

Page: 1 of 377

SAR TEST REPORT





The following samples were submitted and identified on behalf of the client as:

Equipment Under Test Tablet PC

Brand Name hp

Model No. HSTNN-I72C

Company Name HP Inc.

Company Address 1501 Page Mill Road, Palo Alto, California 94304, USA

Standards IEEE /ANSI C95.1, C95.3, IEEE 1528 2013,

KDB616217D04v01r02,KDB865664D01v01r04, KDB865664D02v01r02,KDB941225D01v03r01, KDB941225D05v02r05,KDB447498D01v06

FCC ID B94HNI72CAM

Date of Receipt Sep. 04, 2015

Date of Test(s) Oct. 13, 2015 ~ Mar. 07, 2016

Date of Issue Mar. 10, 2016

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Electronic & Communication Laboratory or testing done by SGS Taiwan Electronic & Communication Laboratory in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Electronic & Communication Laboratory in writing.

Signed on behalf of SGS	
Sr. Engineer	Supervisor
Matt Kuo Matt Kno	John Yeh
Date: Mar. 10, 2016	Date: Mar. 10, 2016

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Page: 2 of 377

Revision History

Report Number	Revision	Description	Issue Date
EN/2016/30002	Rev.00	Initial creation of document	Mar. 10, 2016
EN/2016/30002	Rev.01	1 st modification	Mar. 10, 2016

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 3 of 377

Contents

1. General Information	4
1.1 Testing Laboratory	
1.2 Details of Applicant	
1.3 Description of EUT	5
1.4 Test Environment	71
1.5 Operation Description	71
1.6 Proximity sensor operation description	75
1.7 The SAR Measurement System	88
1.8 System Components	90
1.9 SAR System Verification	92
1.10 Tissue Simulant Fluid for the Frequency Band	94
1.11 Evaluation Procedures	97
1.12 Probe Calibration Procedures	98
1.13 Test Standards and Limits	101
2. Summary of Results	103
3. Simultaneous Transmission Analysis	115
3.1 Estimated SAR calculation	116
3.2 SPLSR evaluation and analysis	116
4. Instruments List	257
5. Measurements	259
6. SAR System Performance Verification	275
7. DAE & Probe Calibration Certificate	
8. Uncertainty Budget	
9. Phantom Description	
10. System Validation from Original Equipment Supplier	
IV. ƏVƏLEIII VAIIUALIÜLI ITÜILI ÜLIÜLILAI EUULDILIELIL ƏUDDILE!	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 4 of 377

1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Electronics & Communication Laboratory						
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipe City, Taiwan						
Tel +886-2-2299-3279						
Fax +886-2-2298-0488						
Internet	http://www.tw.sgs.com/					

1.2 Details of Applicant

Company Name	HP Inc.
Company Address	1501 Page Mill Road, Palo Alto, California 94304, USA

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 5 of 377

1.3 Description of EUT

-					
Equipment Under Test	Tablet	Tablet PC			
Brand Name	hp	hp			
Model No.	HSTN	N-I72C			
Integrated Module	IAWW	NI I	rand Name : FOXCONN lodel Name: T77W595		
Integrated Module	WLAN	1/////(=10	rand Name : Intel lodel Name: 18260NGW		
Antenna type	PIFA				
Antonno Coin	-1.86dBi (for GPRS850/EDGE850/LTE B5/LTE E 1.11dBi (forGPRS1900/EDGE1900/LTE B2/LTE -3.7dBi (for LTE B4); 1.41dBi (for LTE B13); 1.58dBi (for LTE B12/LTE B17)				
Antenna Gain	-3.50dBi (for GPRS850/EDGE850/LTE B5/L 1.88dBi (forGPRS1900/EDGE1900/LTE B2/L 1.88dBi (for LTE B4); -1.67for LTE B13); -3.40dBi(for LTE B12/LTE B17)				
FCC ID	B94HI	NI72CAM			
Mode of Operation	LTE		A ⊠HSDPA ⊠HSUPA		
	GPRS		1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)		
Duty Cycle	EDGE		1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)		
	WCDI	ЛΑ	1		
	LTE		1		
	CDMA Rev. A	1xRTT/ EVDO Rev.0/	1		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 6 of 377

	GPRS850	824.2		848.8
	GPRS1900	1850.2		1909.8
	WCDMA Band II	1852.4		1907.6
	WCDMA Band IV	1712.4		1752.6
	WCDMA Band V	826.4	_	846.6
	LTE FDD Band II	1850	_	1910
TX Frequency Range	LTE FDD Band IV	1710	_	1755
(MHz)	LTE FDD Band V	824	_	849
	LTE FDD Band VII	2500	_	2570
	LTE FDD Band XII	699	_	716
	LTE FDD Band XIII	777	_	787
	LTE FDD Band XVII	704	_	716
	CDMA (BC0)	824.7	_	848.31
	CDMA (BC1)	1851.25	_	1908.75
	GPRS850	128	_	251
	GPRS1900	512	_	810
	WCDMA Band II	9262	_	9538
	WCDMA Band IV	1312	_	1513
	WCDMA Band V	4132	_	4233
	LTE FDD Band II	18607	_	19193
Channel Number	LTE FDD Band IV	19957	_	20393
(ARFCN)	LTE FDD Band V	20407	_	20643
	LTE FDD Band VII	20775	_	21425
	LTE FDD Band XII	23007	_	23173
	LTE FDD Band XIII	23205	_	23255
	LTE FDD Band XVII	23755	_	23825
	CDMA (BC0)	1013	_	777
	CDMA (BC1)	25	_	1175

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 7 of 377

	Max. SAR (1 g) (Unit: W/Kg)							
Band	Measured	Reported	Channel	Position	Highest * Simultaneous Transmission 1g SAR(W/kg)			
GPRS 850	1.060	1.085	251	Back side				
GRPS 1900	0.743	1.026	810	Back side				
WCDMA Band II	1.090	1.093	9262	Back side				
WCDMA Band IV	0.757	1.079	1312	Back side				
WCDMA Band V	0.910	1.133	4132	Back side				
LTE FDD Band II	0.881	1.054	19100	Back side				
LTE FDD Band IV	0.908	1.057	20050	Back side	1.175 (WWAN)			
LTE FDD Band V	0.935	1.042	20450	Back side	0.63 (WLAN Main) 1.18 (WLAN Aux)			
LTE FDD Band VII	0.959	1.083	21350	Back side				
LTE FDD Band XII	0.988	1.124	23130	Back side				
LTE FDD Band XIII	1.030	1.069	23230	Back side				
LTE FDD Band XVII	1.040	1.059	23780	Back side				
CDMA (BC0)	0.910	1.082	1013	Back side				
CDMA (BC1)	0.944	1.175	1175	Back side				

^{*}The highest simultaneous transmission SAR sum is 2.985, and SPLSR is ≤ 0.04 for all simultaneous configurations.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 8 of 377

GPRS/EDGE conducted power table (Full power):

Burst average power							
Max. Rated Avg. Power + Max. Tolerance (dBm)			33.5	33	31	29	
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP	
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	
GPRS	824.2	128	33.10	32.90	30.70	28.90	
850	836.6	190	33.20	33.00	30.60	29.00	
030	848.8		33.20	33.00	31.00	28.90	
		S	ource-based tim	e average power	er		
GPRS	824.2	128	24.07	26.88	26.44	25.89	
850	836.6	190	24.17	26.98	26.34	25.99	
830	848.8	251	24.17	26.98	26.74	25.89	
	The division factor compared to the number of TX time slot						
Div	Division factor			2 TX time slot			
			-9.03	-6.02	-4.26	-3.01	

	Burst average power							
Max. Rated Avg. Power + Max. Tolerance (dBm)			27.5	26.5	26.5	24.5		
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP		
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)		
EDGE	824.2	128	27.50	26.30	26.20	24.10		
850	836.6	190	27.40	26.20	26.10	24.10		
(MCS5)	848.8	251	27.50	26.50	26.50	24.40		
		S	ource-based tim	e average power	er			
EDGE	824.2	128	18.47	20.28	21.94	21.09		
850	836.6	190	18.37	20.18	21.84	21.09		
(MCS5)	848.8	251	18.47	20.48	22.24	21.39		
	The div	ision fa	actor compared	to the number of	of TX time slot			
Division factor		1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot			
	rision factor		-9.03	-6.02	-4.26	-3.01		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 9 of 377

	Burst average power							
Max. Rated Avg. Power + Max. Tolerance (dBm)			31	30	28	26		
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP		
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)		
GPRS	1850.2	512	30.60	29.90	27.60	25.60		
1900	1880	661	30.60	30.00	27.50	25.30		
1900	1900 1909.8 81		30.60	30.00	27.70	25.40		
		S	ource-based tim	e average powe	er			
GPRS	1850.2	512	21.57	23.88	23.34	22.59		
1900	1880	661	21.57	23.98	23.24	22.29		
1900	1909.8	810	21.57	23.98	23.44	22.39		
	The div	ision fa	actor compared	to the number of	of TX time slot			
Div	Division factor			2 TX time slot	3 TX time slot	4 TX time slot		
	rision factor		-9.03	-6.02	-4.26	-3.01		

Burst average power							
Max. Rated Avg. Power + Max. Tolerance (dBm)		26.5	25.5	25.5	23.5		
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP	
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	
EDGE	1850.2	512	26.10	25.50	25.50	23.50	
1900	1880	661	25.70	25.20	25.10	23.20	
(MCS5)	1909.8 810		26.00	25.40	25.30	23.50	
		S	ource-based tim	e average powe	er		
EDGE	1850.2	512	17.07	19.48	21.24	20.49	
1900	1880	661	16.67	19.18	20.84	20.19	
(MCS5)	1909.8	810	16.97	19.38	21.04	20.49	
_	The division factor compared to the number of TX time slot						
Div	ision factor		1 TX time slot		3 TX time slot		
	rision factor		-9.03	-6.02	-4.26	-3.01	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 10 of 377

GPRS/EDGE conducted power table (Reduced power):

			Burst avera	age power		
	ted Avg. Pow olerance (dBr		28.5	25.5	23.5	22.5
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS	824.2	128	28.10	25.20	23.30	22.10
850	836.6	190	28.50	25.30	23.20	22.10
050	848.8	251	28.50	25.50	23.50	22.40
		S	ource-based tim	e average powe	er	
GPRS	824.2	128	19.07	19.18	19.04	19.09
850	836.6	190	19.47	19.28	18.94	19.09
050	848.8	251	19.47	19.48	19.24	19.39
	The div	ision fa	actor compared		of TX time slot	
Div	ision factor	•	1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
	ASION IACION		-9.03	-6.02	-4.26	-3.01

			Burst avera	age power		
	ted Avg. Pow olerance (dBr		27.5	24.5	22.5	21.5
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE	824.2	128	27.50	24.20	22.20	21.10
850	836.6	190	27.40	24.10	22.10	21.10
(MCS5)	848.8	251	27.50	24.40	22.50	21.40
		S	ource-based tim	e average powe	er	
EDGE	824.2	128	18.47	18.18	17.94	18.09
850	836.6	190	18.37	18.08	17.84	18.09
(MCS5)	848.8	251	18.47	18.38	18.24	18.39
	The div	ision fa	actor compared	to the number o	of TX time slot	
Div	ision factor		1 TX time slot	2 TX time slot	3 TX time slot	
	rision factor		-9.03	-6.02	-4.26	-3.01

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 11 of 377

			Burst avera	age power					
	ted Avg. Pow olerance (dBr		27.5	24.5	22.5	21.5			
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP			
EUT mode	Frequency	СН	Avg.	Avg.	Avg.	Avg.			
	(MHz)	540							
GPRS	1850.2	512	26.30	23.30	21.30	20.30			
1900	I 1880 I 661			23.10	21.10	20.00			
1900	1909.8	810	26.30	23.10	21.20	20.10			
		S	(dBm) (dBm) (dBm) (dBm) 26.30 23.30 21.30 20.30 26.10 23.10 21.10 20.00						
GPRS	1850.2	512	17.27	17.28	17.04	17.29			
1900	1880	661	17.07	17.08	16.84	16.99			
1900	1909.8	810	17.27	17.08	16.94	17.09			
	The div	ision fa	actor compared	to the number of	of TX time slot				
Div	ision factor		1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot			
	rision iacioi		-9.03	-6.02	-4.26	-3.01			

			Burst avera	age power		
	ted Avg. Pow olerance (dBr		25.5	22.5	20.5	19.5
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE	1850.2	512	25.10	22.50	20.50	19.50
1900	1880	661	25.50	22.20	20.10	19.20
(MCS5)	1909.8	810	25.00	22.40	20.30	19.50
		S	ource-based tim	e average powe	er	
EDGE	1850.2	512	16.07	16.48	16.24	16.49
1900	1880	661	16.47	16.18	15.84	16.19
(MCS5)	1909.8	810	15.97	16.38	16.04	16.49
	The div	ision fa	actor compared	to the number of	of TX time slot	
Div	ision factor			2 TX time slot		4 TX time slot
	rision factor		-9.03	-6.02	-4.26	-3.01

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 12 of 377

WCDMA Band II / Band IV / Band V - HSDPA / HSUPA conducted power table (Full power):

Band	Max. Rated Avg. CH Power +		Rel99	HS	SDPA mo	de AV(dE	Bm)	HSUPA mode AV(dBm)					
Dallu	СП	Max. Tolerance (dBm)	AV(dBm)	SUB-1	SUB-2	SUB-3	SUB-4	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5	
WCDMA	9262	24.5	23.78	22.53	22.66	22.05	22.12	21.20	19.75	19.76	19.88	22.02	
Band II	9400	24.5	23.47	22.39	22.33	21.94	21.95	20.95	19.50	19.51	19.63	21.83	
Danu II	9538	24.5	23.61	22.48	22.46	21.95	22.07	21.55	20.10	20.11	20.23	21.97	
WCDMA	1312	24.5	23.52	22.55	22.40	22.07	22.14	21.44	19.99	20.00	20.12	21.95	
Band IV	1412	24.5	23.21	22.13	22.07	21.68	21.69	21.45	20.00	20.01	20.13	21.64	
Dana IV	1513	24.5	23.04	22.24	21.89	21.71	21.83	21.30	19.85	19.86	19.98	21.67	
WCDMA	4132	24.5	23.11	21.96	22.04	21.5	21.55	21.00	19.06	19.04	19.11	21.37	
Band V	4183	24.5	23.32	22.19	22.21	21.71	21.75	21.25	19.33	19.31	19.39	21.72	
Dana v	4233	24.5	23.36	22.31	22.23	21.82	21.88	21.28	19.32	19.36	19.4	21.73	

HSDPA

SUB-TEST	β_{c}	β_{d}	β _d (SF)	β_c/β_d	β _{HS} (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15	15/15	64	12/15	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

HSUPA

SUB-TEST	βς	βd	β _d (SF)	β _c /β _d	β _{HS} (Note1)	β _{ec}	β _{ed} (Note 5) (Note 6)	β _{ed} (SF)	β _{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β _{ed} 1: 47/15 β _{ed} 2: 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	15/15	64	15/15	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 13 of 377

WCDMA Band II / Band IV / Band V - HSDPA / HSUPA conducted power table (Reduced power):

Band	СН	Max. Rated Avg.	Rel99	HS	SDPA mo	de AV(dE	sm)		HSUP#	\ mode A\	√(dBm)	
Бапа	Сп	Power + Max. Tolerance (dBm)	AV(dBm)	SUB-1	SUB-2	SUB-3	SUB-4	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5
WCDMA	9262	18.5	17.74	16.54	15.62	16.06	16.13	15.66	14.21	14.22	14.34	16.11
Band II	9400	18.5	17.53	16.37	15.39	15.92	15.93	15.43	13.98	13.99	14.11	15.85
Dana II	9538	18.5	17.61	16.48	15.46	15.95	16.07	15.55	14.10	14.11	14.23	16.02
WCDMA	1312	19.5	17.96	16.76	15.48	16.28	16.35	15.88	14.43	14.44	14.56	16.10
Band IV	1412	19.5	17.82	16.69	15.68	16.24	16.25	15.80	14.35	14.36	14.48	15.87
Danu IV	1513	19.5	17.60	16.48	15.45	15.95	16.07	15.54	14.09	14.10	14.22	15.77
MCDMA	4132	20.5	19.55	18.44	18.23	17.98	18.03	17.00	15.06	15.04	15.11	17.86
WCDMA Band V	4183	20.5	19.73	18.70	17.62	18.22	18.26	17.66	15.74	15.72	15.8	18.09
Dana v	4233	20.5	19.86	18.73	17.73	18.24	18.3	17.78	15.82	15.86	15.9	18.16

HSDPA

SUB-TEST	β_{c}	β_{d}	β _d (SF)	β_c/β_d	β _{HS} (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15	15/15	64	12/15	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

HSUPA

SUB-TEST	βο	βd	β _d (SF)	β _o /β _d	β _{HS} (Note1)	β _{ec}	β _{ed} (Note 5) (Note 6)	β _{ed} (SF)	β _{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β _{ed} 1: 47/15 β _{ed} 2: 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	15/15	64	15/15	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 14 of 377

LTE FDD Band II/ Band IV/ Band V/ Band VII/ Band XII/ Band XIII/ Band XVII power table:

FDD Band 2 (Full Power) Target													
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)					
				1860	18700	23.38	24	0					
			0	1880	18900	23.15	24	0					
				1900	19100	23.36	24	0					
				1860	18700	23.34	24	0					
		1 RB	50	1880	18900	23.20	24	0					
				1900	19100	23.48	24	0					
				1860	18700	23.13	24	0					
			99	1880	18900	22.88	24	0					
				1900	19100	23.09	24	0					
				1860	18700	22.37	23	0-1					
	QPSK		0	1880	18900	22.28	23	0-1					
				1900	19100	22.46	23	0-1					
				1860	18700	22.30	23	0-1					
		50 RB	25	1880	18900	22.24	23	0-1					
				1900	19100	22.40	23	0-1					
				1860	18700	22.25	23	0-1					
			50	1880	18900	22.29	23	0-1					
				1900	19100	22.25	23	0-1					
				1860	18700	22.34	23	0-1					
		100)RB	1880	18900	22.24	23	0-1					
20				1900	19100	22.37	23	0-1					
				1860	18700	22.73	23	0-1					
			0	1880	18900	22.29	23	0-1					
				1900	19100	22.41	23	0-1					
				1860	18700	22.15	23	0-1					
		1 RB	50	1880	18900	21.73	23	0-1					
				1900	19100	22.26	23	0-1					
				1860	18700	21.81	23	0-1					
			99	1880	18900	21.64	23	0-1					
				1900	19100	21.82	23	0-1					
				1860	18700	21.15	22	0-2					
	16-QAM		0	1880	18900	21.07	22	0-2					
				1900	19100	21.21	22	0-2					
				1860	18700	21.05	22	0-2					
		50 RB	25	1880	18900	21.00	22	0-2					
				1900	19100	21.10	22	0-2					
			1860	18700	20.96	22	0-2						
		50	1880	18900	21.02	22	0-2						
				1900	19100	20.93	22	0-2					
				1860	18700	21.03	22	0-2					
		100)RB	1880	18900	20.96	22	0-2					
				1900	19100	21.22	22	0-2					

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 15 of 377

	FDD Band 2 (Full Power)													
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)						
				1857.5	18675	23.17	24	0						
			0	1880	18900	22.94	24	0						
				1902.5	19125	23.09	24	0						
				1857.5	18675	23.06	24	0						
		1 RB	36	1880	18900	22.94	24	0						
				1902.5	19125	23.19	24	0						
				1857.5	18675	22.98	24	0						
			74	1880	18900	23.03	24	0						
				1902.5	19125	23.04	24	0						
				1857.5	18675	22.05	23	0-1						
	QPSK		0	1880	18900	21.90	23	0-1						
				1902.5	19125	22.10	23	0-1						
				1857.5	18675	22.02	23	0-1						
		36 RB	18	1880	18900	21.94	23	0-1						
				1902.5	19125	22.12	23	0-1						
				1857.5	18675	22.04	23	0-1						
			37	1880	18900	22.03	23	0-1						
			37	1902.5	19125	22.02	23	0-1						
				1857.5	18675	22.06	23	0-1						
		75	RB	1880	18900	22.04	23	0-1						
15				1902.5	19125	22.00	23	0-1						
.0				1857.5	18675	22.05	23	0-1						
			0	1880	18900	22.28	23	0-1						
				1902.5	19125	22.14	23	0-1						
				1857.5	18675	21.92	23	0-1						
		1 RB	36	1880	18900	21.98	23	0-1						
				1902.5	19125	21.81	23	0-1						
				1857.5	18675	22.15	23	0-1						
			74	1880	18900	22.32	23	0-1						
				1902.5	19125	22.42	23	0-1						
				1857.5	18675	21.04	22	0-2						
	16-QAM		0	1880	18900	20.88	22	0-2						
				1902.5	19125	21.03	22	0-2						
				1857.5	18675	21.04	22	0-2						
		36 RB	18	1880	18900	20.91	22	0-2						
				1902.5	19125	21.02	22	0-2						
				1857.5	18675	20.93	22	0-2						
		37	1880	18900	20.87	22	0-2							
				1902.5	19125	20.94	22	0-2						
				1857.5	18675	21.09	22	0-2						
	75F	RB	1880	18900	20.91	22	0-2							
		758		1902.5	19125	21.04	22	0-2						

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 16 of 377

	FDD Band 2 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1855	18650	23.05	24	0				
			0	1880	18900	23.01	24	0				
				1905	19150	23.01	24	0				
				1855	18650	23.03	24	0				
		1 RB	25	1880	18900	22.90	24	0				
				1905	19150	23.08	24	0				
				1855	18650	23.05	24	0				
			49	1880	18900	22.92	24	0				
				1905	19150	22.98	24	0				
				1855	18650	22.07	23	0-1				
	QPSK		0	1880	18900	21.90	23	0-1				
				1905	19150	22.09	23	0-1				
				1855	18650	21.99	23	0-1				
		25 RB	12	1880	18900	21.93	23	0-1				
				1905	19150	21.99	23	0-1				
				1855	18650	22.00	23	0-1				
			25	1880	18900	22.02	23	0-1				
				1905	19150	22.02	23	0-1				
				1855	18650	22.07	23	0-1				
		50	RB	1880	18900	21.89	23	0-1				
10			1	1905	19150	22.04	23	0-1				
			0	1855	18650	22.21	23	0-1				
			0	1880	18900	22.07	23	0-1				
				1905	19150	21.83	23	0-1				
				1855	18650	21.85	23	0-1				
		1 RB	25	1880	18900	21.81	23	0-1				
				1905	19150	21.89	23	0-1				
			40	1855	18650	22.38	23	0-1				
			49	1880	18900	21.79	23	0-1				
				1905	19150	21.71	23	0-1				
	46.0414		0	1855	18650	21.15	22	0-2				
	16-QAM		0	1880	18900	20.86	22	0-2				
				1905	19150	21.08	22	0-2				
		25 DD	10	1855	18650	20.95	22	0-2				
		25 RB	12	1880	18900	20.96	22	0-2				
				1905	19150	20.98	22	0-2				
			25	1855	18650	21.05	22	0-2				
			∠5	1880	18900	21.07	22	0-2				
				1905	19150	20.96	22	0-2				
		ΕΛ	D R	1855	18650	20.93	22	0-2				
	50F		מא	1880	18900	20.96	22	0-2				
				1905	19150	20.97	22	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_end_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this onlineful.

f (886-2) 2298-0488

prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 17 of 377

	FDD Band 2 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1852.5	18625	22.95	24	0				
			0	1880	18900	22.76	24	0				
				1907.5	19175	23.02	24	0				
				1852.5	18625	23.36	24	0				
		1 RB	12	1880	18900	22.87	24	0				
				1907.5	19175	22.87	24	0				
				1852.5	18625	22.86	24	0				
			24	1880	18900	22.80	24	0				
				1907.5	19175	23.01	24	0				
				1852.5	18625	22.00	23	0-1				
	QPSK		0	1880	18900	21.90	23	0-1				
				1907.5	19175	21.95	23	0-1				
				1852.5	18625	21.97	23	0-1				
		12 RB	6	1880	18900	21.90	23	0-1				
				1907.5	19175	21.95	23	0-1				
				1852.5	18625	22.02	23	0-1				
			13	1880	18900	22.00	23	0-1				
				1907.5	19175	22.02	23	0-1				
				1852.5	18625	22.03	23	0-1				
		25	RB	1880	18900	21.91	23	0-1				
5				1907.5	19175	22.02	23	0-1				
Ĭ				1852.5	18625	21.91	23	0-1				
			0	1880	18900	21.50	23	0-1				
				1907.5	19175	21.98	23	0-1				
				1852.5	18625	21.84	23	0-1				
		1 RB	12	1880	18900	21.95	23	0-1				
				1907.5	19175	22.00	23	0-1				
				1852.5	18625	21.80	23	0-1				
			24	1880	18900	22.08	23	0-1				
				1907.5	19175	21.82	23	0-1				
				1852.5	18625	21.13	22	0-2				
	16-QAM		0	1880	18900	20.81	22	0-2				
				1907.5	19175	21.00	22	0-2				
				1852.5	18625	21.07	22	0-2				
		12 RB	6	1880	18900	20.89	22	0-2				
				1907.5	19175	20.99	22	0-2				
				1852.5	18625	21.12	22	0-2				
			13	1880	18900	20.90	22	0-2				
				1907.5	19175	21.00	22	0-2				
				1852.5	18625	20.99	22	0-2				
		25	RB	1880	18900	20.93	22	0-2				
		2311		1907.5	19175	20.92	22	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 18 of 377

	FDD Band 2 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1851.5	18615	22.94	24	0				
			0	1880	18900	22.70	24	0				
				1908.5	19185	22.89	24	0				
				1851.5	18615	22.93	24	0				
		1 RB	7	1880	18900	22.79	24	0				
				1908.5	19185	22.68	24	0				
				1851.5	18615	22.97	24	0				
			14	1880	18900	22.86	24	0				
				1908.5	19185	22.81	24	0				
				1851.5	18615	21.92	23	0-1				
	QPSK		0	1880	18900	21.81	23	0-1				
				1908.5	19185	21.84	23	0-1				
				1851.5	18615	21.95	23	0-1				
		8 RB	4	1880	18900	21.82	23	0-1				
				1908.5	19185	21.94	23	0-1				
				1851.5	18615	21.93	23	0-1				
			7	1880	18900	21.88	23	0-1				
				1908.5	19185	21.88	23	0-1				
				1851.5	18615	21.91	23	0-1				
		15	RB	1880	18900	21.87	23	0-1				
3				1908.5	19185	21.90	23	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-				
Ĭ				1851.5	18615	21.71	23	0-1				
			0	1880	18900	21.73	23	0-1				
				1908.5	19185	22.01	23	0-1				
				1851.5	18615	21.90	23	0-1				
		1 RB	7	1880	18900	21.94	23	0-1				
				1908.5	19185	21.85	23	0-1				
				1851.5	18615	22.17	23	0-1				
			14	1880	18900	21.48	23	0-1				
				1908.5	19185	21.77	23					
				1851.5	18615	21.11	22					
	16-QAM		0	1880	18900	20.90	22	0-2				
				1908.5	19185	20.85	22	0-2				
				1851.5	18615	21.05	22	0-2				
		8 RB	4	1880	18900	20.88	22	0-2				
				1908.5	19185	21.03	22	0-2				
				1851.5	18615	20.94	22	0-2				
			7	1880	18900	20.91	22	0-2				
				1908.5	19185	20.96	22	0-2				
				1851.5	18615	20.95	22	0-2				
		15	RB	1880	18900	20.74	22	0-2				
		13KB		1908.5	19185	20.79	22	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 19 of 377

FDD Band 2 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				1850.7	18607	22.90	24	0			
			0	1880	18900	22.72	24	0			
				1909.3	19193	23.05	24	0			
				1850.7	18607	22.93	24	0			
		1 RB	2	1880	18900	22.77	24	0			
				1909.3	19193	22.93	24	0			
				1850.7	18607	23.01	24	0			
			5	1880	18900	22.89	24	0			
				1909.3	19193	22.92	24	0			
				1850.7	18607	22.17	23	0-1			
	QPSK		0	1880	18900	22.03	23	0-1			
				1909.3	19193	22.14	23	0-1			
				1850.7	18607	22.20	23	0-1			
		3 RB	2	1880	18900	21.90	23	0-1			
				1909.3	19193	22.06	23	0-1			
				1850.7	18607	22.17	23	0-1			
			3	1880	18900	22.00	23	0-1			
				1909.3	19193	22.08	23	0-1			
			-	1850.7	18607	21.92	23	0-1			
		6F	RB	1880	18900	21.88	23	0-1			
4.4				1909.3	19193	21.87	23	0-1			
1.4				1850.7	18607	22.01	23	0-1			
			0	1880	18900	21.99	23	0-1			
				1909.3	19193	21.68	23	0-1			
				1850.7	18607	22.08	23	0-1			
		1 RB	2	1880	18900	21.58	23	0-1			
				1909.3	19193	21.99	23	0-1			
				1850.7	18607	21.48	23	0-1			
			5	1880	18900	21.60	23	0-1			
				1909.3	19193	21.38	23	0-1			
				1850.7	18607	20.94	22	0-2			
	16-QAM		0	1880	18900	21.05	22	0-2			
				1909.3	19193	20.98	22	0-2			
				1850.7	18607	21.09	22	0-2			
		3 RB	2	1880	18900	20.89	22	0-2			
				1909.3	19193	20.89	22	0-2			
				1850.7	18607	21.17	22	0-2			
			3	1880	18900	21.00	22	0-2			
				1909.3	19193	20.97	22	0-2			
				1850.7	18607	20.94	22	0-2			
		6F	RB	1880	18900	20.82	22	0-2			
		ORB		1909.3	19193	20.81	22	0-2			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 20 of 377

FDD Band 2 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				1860	18700	17.53	18.5	0			
			0	1880	18900	17.34	18.5	0			
				1900	19100	17.72	18.5	0			
				1860	18700	17.35	18.5	0			
		1 RB	50	1880	18900	17.38	18.5	0			
				1900	19100	17.57	18.5	0			
				1860	18700	17.22	18.5	0			
			99	1880	18900	17.53	18.5	0			
				1900	19100	17.41	18.5	0			
				1860	18700	17.40	18.5	0-1			
	QPSK		0	1880	18900	17.48	18.5	0-1			
				1900	19100	17.69	18.5	0-1			
				1860	18700	17.35	18.5	0-1			
		50 RB	25	1880	18900	17.44	18.5	0-1			
				1900	19100	17.60	18.5	0-1			
				1860	18700	17.29	18.5	0-1			
			50	1880	18900	17.45	18.5	0-1			
				1900	19100	17.48	18.5	0-1			
				1860	18700	17.39	18.5	0-1			
		100)RB	1880	18900	17.40	18.5	0-1			
20				1900	19100	17.65	18.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1			
				1860	18700	17.42	18.5	_			
			0	1880	18900	17.26	18.5	0-1			
				1900	19100	17.49	18.5	0-1			
				1860	18700	17.23	18.5	0-1			
		1 RB	50	1880	18900	17.24	18.5				
				1900	19100	17.48	18.5				
				1860	18700	17.07	18.5				
			99	1880	18900	17.35	18.5	+			
				1900	19100	17.29	18.5				
			_	1860	18700	17.33	18.5				
	16-QAM		0	1880	18900	17.34	18.5				
				1900	19100	17.56	18.5				
				1860	18700	17.25	18.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-			
		50 RB	25	1880	18900	17.31	18.5				
				1900	19100	17.53	18.5				
				1860	18700	17.22	18.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1			
			50	1880	18900	17.38	18.5	+			
				1900	19100	17.40	18.5				
				1860	18700	17.30	18.5				
	1001)KB	1880	18900	17.32	18.5					
				1900	19100	17.52	18.5	0-2			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 21 of 377

FDD Band 2 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				1857.5	18675	17.45	18.5	0			
			0	1880	18900	17.36	18.5	0			
				1902.5	19125	17.57	18.5	0			
				1857.5	18675	17.32	18.5	0			
		1 RB	36	1880	18900	17.33	18.5	0			
				1902.5	19125	17.45	18.5	0			
				1857.5	18675	17.22	18.5	0			
			74	1880	18900	17.42	18.5	0			
				1902.5	19125	17.34	18.5	0			
				1857.5	18675	17.31	18.5	0-1			
	QPSK		0	1880	18900	17.29	18.5	0-1			
				1902.5	19125	17.53	18.5	0-1			
				1857.5	18675	17.32	18.5	0-1			
		36 RB	18	1880	18900	17.32	18.5	0-1			
				1902.5	19125	17.48	18.5	0-1			
				1857.5	18675	17.22	18.5	0-1			
			37	1880	18900	17.35	18.5	0-1			
				1902.5	19125	17.33	18.5	0-1			
				1857.5	18675	17.32	18.5	0-1			
		75	RB	1880	18900	17.34	18.5	0-1			
15				1902.5	19125	17.38	18.5	0-1			
				1857.5	18675	17.38	18.5	0-1			
			0	1880	18900	17.24	18.5	0-1			
				1902.5	19125	17.52	18.5	0-1			
				1857.5	18675	17.22	18.5	0-1			
		1 RB	36	1880	18900	17.21	18.5	0-1			
				1902.5	19125	17.41	18.5	0-1			
				1857.5	18675	17.16	18.5	0-1			
			74	1880	18900	17.33	18.5	0-1			
				1902.5	19125	17.32	18.5				
			_	1857.5	18675	17.27	18.5				
	16-QAM		0	1880	18900	17.24	18.5				
				1902.5	19125	17.50	18.5	0-2			
				1857.5	18675	17.29	18.5	0-2			
		36 RB	18	1880	18900	17.27	18.5	0-2			
				1902.5	19125	17.42	18.5				
				1857.5	18675	17.21	18.5	0-2			
			37	1880	18900	17.33	18.5	0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1			
				1902.5	19125	17.33	18.5				
				1857.5	18675	17.35	18.5				
	75R	KB	1880	18900	17.32	18.5					
				1902.5	19125	17.38	18.5	0-2			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 22 of 377

FDD Band 2 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				1855	18650	17.36	18.5	0			
			0	1880	18900	17.36	18.5	0			
				1905	19150	17.52	18.5	0			
				1855	18650	17.27	18.5	0			
		1 RB	25	1880	18900	17.28	18.5	0			
				1905	19150	17.41	18.5	0			
				1855	18650	17.22	18.5	0			
			49	1880	18900	17.38	18.5	0			
				1905	19150	17.31	18.5	0			
				1855	18650	17.39	18.5	0-1			
	QPSK		0	1880	18900	17.27	18.5	0-1			
				1905	19150	17.47	18.5	0-1			
				1855	18650	17.21	18.5	0-1			
		25 RB	12	1880	18900	17.29	18.5	0-1			
				1905	19150	17.35	18.5	0-1			
				1855	18650	17.28	18.5	0-1			
			25	1880	18900	17.32	18.5	0-1			
				1905	19150	17.28	18.5	0-1			
				1855	18650	17.30	18.5	0-1			
		50	RB	1880	18900	17.34	18.5	0-1			
10				1905	19150	17.35	18.5	0-1			
				1855	18650	17.36	18.5	0-1			
			0	1880	18900	17.29	18.5				
				1905	19150	17.48	18.5				
				1855	18650	17.22	18.5	 			
		1 RB	25	1880	18900	17.23	18.5				
				1905	19150	17.32	18.5				
				1855	18650	17.20	18.5				
			49	1880	18900	17.31	18.5	+			
				1905	19150	17.26	18.5				
	46.0444		_	1855	18650	17.43	18.5				
	16-QAM		0	1880	18900	17.33	18.5				
				1905	19150	17.53	18.5				
		0E DD	40	1855	18650	17.28	18.5				
		25 RB	12	1880	18900	17.33	18.5				
				1905	19150	17.38	18.5				
			25	1855	18650	17.32	18.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1			
			25	1880	18900	17.39	18.5				
				1905	19150	17.34	18.5	-			
		F0	DD	1855	18650	17.31	18.5				
	50F	מא	1880	18900	17.33	18.5					
				1905	19150	17.34	18.5	0-2			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 23 of 377

FDD Band 2 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				1852.5	18625	17.33	18.5	0			
			0	1880	18900	17.33	18.5	0			
				1907.5	19175	17.44	18.5	0			
				1852.5	18625	17.34	18.5	0			
		1 RB	12	1880	18900	17.29	18.5	0			
				1907.5	19175	17.28	18.5	0			
				1852.5	18625	17.21	18.5	0			
			24	1880	18900	17.32	18.5	0			
				1907.5	19175	17.28	18.5	0			
				1852.5	18625	17.36	18.5	0-1			
	QPSK		0	1880	18900	17.34	18.5	0-1			
				1907.5	19175	17.36	18.5	0-1			
				1852.5	18625	17.34	18.5	0-1			
		12 RB	6	1880	18900	17.30	18.5	0-1			
				1907.5	19175	17.32	18.5	0-1			
				1852.5	18625	17.39	18.5	0-1			
			13	1880	18900	17.33	18.5	0-1			
				1907.5	19175	17.28	18.5	0-1			
				1852.5	18625	17.31	18.5	0-1			
		25	RB	1880	18900	17.33	18.5	0-1			
5				1907.5	19175	17.28	18.5	0-1			
Ü				1852.5	18625	17.32	18.5	0-1			
			0	1880	18900	17.32	18.5	0-1			
				1907.5	19175	17.33	18.5	0-1			
				1852.5	18625	17.22	18.5	0-1			
		1 RB	12	1880	18900	17.21	18.5	0-1			
				1907.5	19175	17.23	18.5	0-1			
				1852.5	18625	17.19	18.5	0-1			
			24	1880	18900	17.27	18.5	0-1			
				1907.5	19175	17.16	18.5	0-1			
				1852.5	18625	17.41	18.5				
	16-QAM		0	1880	18900	17.32	18.5	0-2			
				1907.5	19175	17.37	18.5	0-2			
				1852.5	18625	17.41	18.5	0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-			
		12 RB	6	1880	18900	17.33	18.5				
				1907.5	19175	17.34	18.5				
				1852.5	18625	17.42	18.5				
			13	1880	18900	17.35	18.5	0-2			
				1907.5	19175	17.34	18.5	0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1			
				1852.5	18625	17.40	18.5				
	25R		RB	1880	18900	17.32	18.5	1			
				1907.5	19175	17.34	18.5	0-2			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 24 of 377

FDD Band 2 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				1851.5	18615	17.37	18.5	0			
			0	1880	18900	17.29	18.5	0			
				1908.5	19185	17.31	18.5	0			
				1851.5	18615	17.28	18.5	0			
		1 RB	7	1880	18900	17.27	18.5	0			
				1908.5	19185	17.28	18.5	0			
				1851.5	18615	17.31	18.5	0			
ı			14	1880	18900	17.34	18.5	0			
				1908.5	19185	17.28	18.5	0			
				1851.5	18615	17.31	18.5	0-1			
	QPSK		0	1880	18900	17.32	18.5	0-1			
				1908.5	19185	17.26	18.5	0-1			
				1851.5	18615	17.33	18.5	0-1			
		8 RB	4	1880	18900	17.27	18.5	0-1			
				1908.5	19185	17.24	18.5	0-1			
				1851.5	18615	17.31	18.5	0-1			
			7	1880	18900	17.33	18.5	0-1			
				1908.5	19185	17.27	18.5	0-1			
				1851.5	18615	17.30	18.5	0-1			
		15	RB	1880	18900	17.34	18.5	0-1			
3				1908.5	19185	17.32	18.5	0-1			
3				1851.5	18615	17.26	18.5	0-1			
			0	1880	18900	17.21	18.5	0-1			
				1908.5	19185	17.19	18.5	0-1			
				1851.5	18615	17.28	18.5	0-1			
		1 RB	7	1880	18900	17.24	18.5	0-1			
				1908.5	19185	17.14	18.5	0-1			
				1851.5	18615	17.28	18.5	0-1			
			14	1880	18900	17.26	18.5	0-1			
				1908.5	19185	17.23	18.5	0-1			
				1851.5	18615	17.40	18.5	0-2			
	16-QAM		0	1880	18900	17.34	18.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1			
				1908.5	19185	17.37	18.5	0-2			
				1851.5	18615	17.37	18.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-			
		8 RB	4	1880	18900	17.36	18.5				
				1908.5	19185	17.35	18.5	0-2			
				1851.5	18615	17.38	18.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1			
			7	1880	18900	17.34	18.5	0-2			
				1908.5	19185	17.36	18.5	0-2			
				1851.5	18615	17.37	18.5	0-2			
		15	RB	1880	18900	17.28	18.5	0-2			
		TORD		1908.5	19185	17.28	18.5	0-2			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The

Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 25 of 377

FDD Band 2 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				1850.7	18607	17.37	18.5	0			
			0	1880	18900	17.33	18.5	0			
				1909.3	19193	17.32	18.5	0			
				1850.7	18607	17.36	18.5	0			
		1 RB	2	1880	18900	17.31	18.5	0			
				1909.3	19193	17.28	18.5	0			
				1850.7	18607	17.37	18.5	0			
			5	1880	18900	17.36	18.5	0			
				1909.3	19193	17.33	18.5	0			
				1850.7	18607	17.40	18.5	0-1			
	QPSK		0	1880	18900	17.33	18.5	0-1			
				1909.3	19193	17.29	18.5	0-1			
				1850.7	18607	17.32	18.5	0-1			
		3 RB	2	1880	18900	17.36	18.5	0-1			
				1909.3	19193	17.30	18.5	0-1			
				1850.7	18607	17.37	18.5	0-1			
			3	1880	18900	17.33	18.5	0-1			
				1909.3	19193	17.31	18.5	0-1			
				1850.7	18607	17.35	18.5	0-1			
		6	RB	1880	18900	17.33	18.5	0-1			
1.4				1909.3	19193	17.31	18.5	0-1			
				1850.7	18607	17.35	18.5	0-1			
			0	1880	18900	17.31	18.5	0-1			
				1909.3	19193	17.26	18.5	0-1			
				1850.7	18607	17.28	18.5	0-1			
		1 RB	2	1880	18900	17.23	18.5	0-1			
				1909.3	19193	17.27	18.5	0-1			
				1850.7	18607	17.30	18.5	0-1			
			5	1880	18900	17.24	18.5	0-1			
				1909.3	19193	17.29	18.5	0-1			
				1850.7	18607	17.30	18.5	0-2			
	16-QAM		0	1880	18900	17.30	18.5	0-2			
				1909.3	19193	17.25	18.5	0-2			
				1850.7	18607	17.31	18.5	0-2			
		3 RB	2	1880	18900	17.27	18.5	0-2			
				1909.3	19193	17.23	18.5	0-2			
				1850.7	18607	17.33	18.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1			
			3	1880	18900	17.28	18.5				
				1909.3	19193	17.26	18.5				
				1850.7	18607	17.27	18.5	-			
		6RB		1880	18900	17.29	18.5				
				1909.3	19193	17.24	18.5	0-2			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 26 of 377

	FDD Band 4 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1720	20050	23.15	24	0				
			0	1732.5	20175	23.25	24	0				
				1745	20300	23.12	24	0				
				1720	20050	23.08	24	0				
		1 RB	50	1732.5	20175	22.89	24	0				
				1745	20300	23.13	24	0				
				1720	20050	23.13	24	0				
			99	1732.5	20175	22.72	24	0				
				1745	20300	22.93	24	0				
				1720	20050	22.36	23	0-1				
	QPSK		0	1732.5	20175	22.17	23	0-1				
				1745	20300	22.14	23	0-1				
				1720	20050	22.33	23	0-1				
		50 RB	25	1732.5	20175	22.09	23	0-1				
				1745	20300	22.01	23	0-1				
				1720	20050	22.21	23	0-1				
			50	1732.5	20175	21.95	23	0-1				
				1745	20300	22.01	23	0-1				
				1720	20050	22.29	23	0-1				
		100)RB	1732.5	20175	22.24	23	0-1				
20				1745	20300	21.89	23	0-1				
				1720	20050	22.21	23	0-1				
			0	1732.5	20175	22.05	23	0-1				
				1745	20300	22.24	23	0-1				
				1720	20050	22.36	23	0-1				
		1 RB	50	1732.5	20175	22.11	23	0-1				
				1745	20300	21.59	23					
				1720	20050	22.42	23	_				
			99	1732.5	20175	22.08	23	0-1				
				1745	20300	21.78	23					
			_	1720	20050	21.17	22					
	16-QAM		0	1732.5	20175	21.09	22					
				1745	20300	20.80	22	0-2				
			_	1720	20050	21.26	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-				
		50 RB	25	1732.5	20175	21.08	22					
				1745	20300	20.98	22					
				1720	20050	21.18	22	0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1				
			50	1732.5	20175	21.10	22					
				1745	20300	20.95	22					
				1720	20050	21.27	22					
	1001)KB	1732.5	20175	21.18	22						
				1745	20300	21.02	22	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 27 of 377

	FDD Band 4 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1717.5	20025	23.01	24	0				
			0	1732.5	20175	22.96	24	0				
				1747.5	20325	22.51	24	0				
				1717.5	20025	22.92	24	0				
		1 RB	36	1732.5	20175	22.58	24	0				
				1747.5	20325	22.48	24	0				
				1717.5	20025	22.89	24	0				
			74	1732.5	20175	22.11	24	0				
				1747.5	20325	22.67	24	0				
				1717.5	20025	21.86	23	0-1				
	QPSK		0	1732.5	20175	21.85	23	0-1				
				1747.5	20325	21.55	23	0-1				
				1717.5	20025	21.91	23	0-1				
		36 RB	18	1732.5	20175	21.68	23	0-1				
				1747.5	20325	21.56	23	0-1				
				1717.5	20025	21.88	23	0-1				
			37	1732.5	20175	21.68	23	0-1				
				1747.5	20325	21.63	23	0-1				
				1717.5	20025	21.88	23	0-1				
		75	RB	1732.5	20175	21.66	23	0-1				
15				1747.5	20325	21.72	23	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-				
10			_	1717.5	20025	22.20	23	0-1				
			0	1732.5	20175	21.71	23	0-1				
				1747.5	20325	21.77	23	0-1				
				1717.5	20025	21.90	23	0-1				
		1 RB	36	1732.5	20175	21.51	23	0-1				
				1747.5	20325	21.63	23	0-1				
				1717.5	20025	21.55	23	0-1				
			74	1732.5	20175	21.67	23	0-1				
				1747.5	20325	21.41	23					
				1717.5	20025	20.81	22					
	16-QAM		0	1732.5	20175	20.78	22	0-2				
				1747.5	20325	20.50	22					
				1717.5	20025	20.84	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0-1 0-				
		36 RB	18	1732.5	20175	20.67	22					
				1747.5	20325	20.56	22					
			_	1717.5	20025	20.89	22	0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1				
			37	1732.5	20175	20.61	22					
				1747.5	20325	20.59	22					
				1717.5	20025	21.12	22					
		75	RB	1732.5	20175	20.68	22	1				
			1747.5	20325	20.72	22	0-2					

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 28 of 377

	FDD Band 4 (Full Power)									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1715	20000	22.84	24	0		
		0	1732.5	20175	22.67	24	0			
				1750	20350	22.44	24	0		
				1715	20000	23.04	24	0		
		1 RB	25	1732.5	20175	22.69	24	0		
				1750	20350	22.52	24	0		
			49	1715	20000	23.08	24	0		
				1732.5	20175	22.39	24	0		
				1750	20350	22.72	24	0		
			0 1715 20000 21.83 23 1732.5 20175 21.74 23 1750 20350 21.55 23	1715	20000	21.83	23	0-1		
	QPSK			1732.5	20175	21.74	23	0-1		
				23	0-1					
				1715	20000	21.83	23	0-1		
		25 RB	12	1732.5	20175	0175 21.72 23 0350 21.60 23 0000 21.65 23 0175 21.70 23	0-1			
				1750	20350		0-1			
				1715	20000	21.65	23	0-1		
			25	1732.5	20175	21.70	23	0-1		
				1750	20350	21.56	23	0-1		
				1715	20000	21.91	23	0-1		
		50	RB	1732.5	20175	21.69	23	0-1		
10				1750	20350	21.70	23	0-1		
			0	1715	20000	21.92	23	0-1		
				1732.5	20175	21.80	23	0-1		
				1750	20350	21.72	23	0-1		
				1715	20000	21.89	23	0-1		
		1 RB	25	1732.5	20175	21.95	23	0-1		
				1750	20350	21.96	23	0-1		
				1715	20000	21.75	23	0-1		
			49	1732.5	20175	21.70	23	0-1		
				1750	20350	21.00	23	0-1		
	40.0444			1715	20000	20.86	22	0-2		
	16-QAM		0	1732.5	20175	20.59	22	0-2		
				1750	20350	20.55	22	0-2		
		0E DD	40	1715	20000	20.90	22	0-2		
		25 RB	12	1732.5	20175	20.65	22	0-2		
				1750	20350	20.59	22	0-2		
			25	1715	20000	20.95	22	0-2		
			25	1732.5	20175	20.75	22	0-2		
				1750	20350	20.55	22	0-2		
		F0	DD	1715	20000	20.86	22	0-2		
		50	RB	1732.5	20175	20.75	22	0-2		
				1750	20350	20.56	22	0-2		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 29 of 377

	FDD Band 4 (Full Power)									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1712.5	19975	22.79	24	0		
			0	1732.5	20175	22.58	24	0		
				1752.5	20375	22.44	24	0		
				1712.5	19975	22.83	24	0		
		1 RB	12	1732.5	20175	22.61	24	0		
				1752.5	20375	22.42	24	0		
			24	1712.5	19975	22.84	24	0		
				1732.5	20175	22.60	24	0		
				1752.5	20375	22.50	24	0		
		QPSK 12 RB		1712.5	19975	21.81	23	0-1		
	QPSK		0	1732.5	20175	21.66	23	0-1		
				1752.5	20375	21.62	23	0-1		
				1712.5	19975	21.75	23	0-1		
			6	1732.5	20175	21.65	23	0-1		
				1752.5	20375	21.57	23	0-1		
				1712.5	19975	21.79	23	0-1		
			13	1732.5	20175	21.70 23 21.63 23	0-1			
				1752.5	20375	21.63	23	0-1		
				1712.5	19975	21.75	23	0-1		
		25RB		1732.5	20175	21.64	23	0-1		
5				1752.5	20375	21.57	23	0-1		
			0	1712.5	19975	21.91	23	0-1		
				1732.5	20175	21.85	23	0-1		
				1752.5	20375	21.58	23	0-1		
			12	1712.5	19975	22.19	23	0-1		
		1 RB		1732.5	20175	21.48	23	0-1		
				1752.5	20375	21.19	23	0-1		
				1712.5	19975	21.20	23	0-1		
			24	1732.5	20175	21.48	23	0-1		
				1752.5	20375	21.40	23	0-1		
			_	1712.5	19975	20.93	22	0-2		
	16-QAM		0	1732.5	20175	20.59	22	0-2		
				1752.5	20375	20.63	22	0-2		
		40.55	_	1712.5	19975	20.73	22	0-2		
		12 RB	6	1732.5	20175	20.74	22	0-2		
				1752.5	20375	20.71	22	0-2		
			40	1712.5	19975	20.77	22	0-2		
			13	1732.5	20175	20.63	22	0-2		
				1752.5	20375	20.63	22	0-2		
		0.5	DD	1712.5	19975	20.73	22	0-2		
		25	RB	1732.5	20175	20.69	22	0-2		
				1752.5	20375	20.56	22	0-2		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 30 of 377

			FDD	Band 4 (Full P	ower)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1711.5	19965	22.83	24	0
			0	1732.5	20175	22.66	24	0
				1753.5	20385	22.54	24	0
				1711.5	19965	22.76	24	0
		1 RB	7	1732.5	20175	22.64	24	0
				1753.5	20385	22.62	24	0
			14	1711.5	19965	22.82	24	0
				1732.5	20175	22.59	24	0
				1753.5	20385	22.66	24	0
				1711.5	19965	21.83	23	0-1
	QPSK		0	1732.5	20175	21.64	23	0-1
		8 RB		1753.5	20385	21.61	23	0-1
				1711.5	19965	21.66	23	0-1
			4	1732.5	20175	21.64	23	0-1
				1753.5	20385	21.54	23	0-1
				1711.5	19965	21.77	23	0-1
			7	1732.5	20175	21.72	21.77 23 21.72 23 21.66 23 21.79 23	0-1
				1753.5	20385	21.66		0-1
				1711.5	19965	21.79	23	0-1
		15RB		1732.5	20175	21.68	23	0-1
3				1753.5	20385	21.58	23	0-1
			0	1711.5	19965	21.63	23	0-1
				1732.5	20175	21.85	23	0-1
				1753.5	20385	21.18	23	0-1
				1711.5	19965	21.05	23	0-1
		1 RB	7	1732.5	20175	21.23	23	0-1
				1753.5	20385	21.19	23	0-1
				1711.5	19965	21.82	23	0-1
			14	1732.5	20175	21.46	23	0-1
				1753.5	20385	21.47	23	0-1
	46.0444		_	1711.5	19965	20.86	22	0-2
	16-QAM		0	1732.5	20175	20.59	22	0-2
				1753.5	20385	20.52	22	0-2
		0 00	4	1711.5	19965	20.60	22	0-2
		8 RB	4	1732.5	20175	20.73	22	0-2
				1753.5	20385	20.57	22	0-2
			7	1711.5	19965	20.91	22	0-2
			7	1732.5	20175	20.57	22	0-2
				1753.5	20385	20.68	22	0-2
		4.5	DD	1711.5	19965	20.71	22	0-2
		15	RB	1732.5	20175	20.73	22	0-2
				1753.5	20385	20.73	22	0-2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 31 of 377

			FDD	Band 4 (Full P	ower)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1710.7	19957	22.78	24	0
			0	1732.5	20175	22.60	24	0
				1754.3	20393	22.64	24	0
				1710.7	19957	22.86	24	0
		1 RB	2	1732.5	20175	22.60	24	0
				1754.3	20393	22.69	24	0
			5	1710.7	19957	22.89	24	0
				1732.5	20175	22.72	24	0
				1754.3	20393	22.65	24	0
		QPSK 3 RB	0	1710.7	19957	22.05	23	0-1
	QPSK			1732.5	20175	21.81	23	0-1
				1754.3	20393	21.85	23	0-1
				1710.7	19957	22.02 21.85	23	0-1
			2	1732.5	20175	21.85	23	0-1
				1754.3		23	0-1	
				1710.7	19957	22.04	23	0-1
			3	1732.5	20175	21.89	23	0-1
				1754.3	20393	21.85	23	0-1
				1710.7	19957	21.81	23	0-1
		6F	RB	1732.5	20175	21.68	23	0-1
1.4				1754.3	20393	21.72	23	0-1
1.4			0	1710.7	19957	21.55	23	0-1
				1732.5	20175	21.18	23	0-1
				1754.3	20393	21.63	23	0-1
			2	1710.7	19957	21.54	23	0-1
		1 RB		1732.5	20175	21.48	23	0-1
				1754.3	20393	21.23	23	0-1
				1710.7	19957	21.58	23	0-1
			5	1732.5	20175	21.74	23	0-1
				1754.3	20393	21.94	23	0-1
				1710.7	19957	20.92	22	0-2
	16-QAM		0	1732.5	20175	20.80	22	0-2
				1754.3	20393	20.66	22	0-2
				1710.7	19957	21.01	22	0-2
		3 RB	2	1732.5	20175	20.84	22	0-2
				1754.3	20393	20.80	22	0-2
				1710.7	19957	20.95	22	0-2
			3	1732.5	20175	20.84	22	0-2
				1754.3	20393	20.90	22	0-2
				1710.7	19957	20.65	22	0-2
		6F	RB	1732.5	20175	20.49	22	0-2
				1754.3	20393	20.66	22	0-2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 32 of 377

	FDD Band 4 (Reduced Power)									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1720	20050	17.84	18.5	0		
			0	1732.5	20175	17.85	18.5	0		
				1745	20300	17.58	18.5	0		
				1720	20050	17.83	18.5	0		
		1 RB	50	1732.5	20175	17.53	18.5	0		
				1745	20300	17.40	18.5	0		
			99	1720	20050	17.62	18.5	0		
				1732.5	20175	17.44	18.5	0		
				1745	20300	17.56	18.5	0		
			0	1720	20050	17.82	18.5	0-1		
	QPSK			1732.5	20175	17.66	18.5	0-1		
				1745	20300	17.48	18.5 18.5	0-1		
				1720	20050	17.84	18.5	0-1		
		50 RB	25	1732.5	20175	20175 17.52 18.5 20300 17.42 18.5		0-1		
				1745	20050 17.77 18.5	18.5	0-1			
				1720				0-1		
			50	1732.5	20175	17.55	18.5	0-1		
				1745	20300	17.44 18.5 17.80 18.5	0-1			
				1720	20050		18.5	0-1		
		100)RB	1732.5	20175	17.61	18.5	0-1		
20				1745	20300	17.42	18.5	0-1		
			0	1720	20050	17.83	18.5	0-1		
				1732.5	20175	17.83	18.5	0-1		
				1745	20300	17.58	18.5	0-1		
			50	1720	20050	17.79	18.5	0-1		
		1 RB		1732.5	20175	17.53	18.5	0-1		
				1745	20300	17.42	18.5	0-1		
				1720	20050	17.59	18.5	0-1		
			99	1732.5	20175	17.37	18.5	0-1		
				1745	20300	17.52	18.5	0-1		
			_	1720	20050	17.80	18.5	0-2		
	16-QAM		0	1732.5	20175	17.68	18.5	0-2		
				1745	20300	17.50	18.5	0-2		
				1720	20050	17.85	18.5	0-2		
		50 RB	25	1732.5	20175	17.55	18.5	0-2		
				1745	20300	17.45	18.5	0-2		
				1720	20050	17.81	18.5	0-2		
			50	1732.5	20175	17.57	18.5	0-2		
				1745	20300	17.50	18.5	0-2		
				1720	20050	17.83	18.5	0-2		
		100)RB	1732.5	20175	17.63	18.5	0-2		
				1745	20300	17.45	18.5	0-2		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 33 of 377

	FDD Band 4 (Reduced Power)									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1717.5	20025	17.79	18.5	0		
			0	1732.5	20175	17.83	18.5	0		
				1747.5	20325	17.53	18.5	0		
				1717.5	20025	17.72	18.5	0		
		1 RB	36	1732.5	20175	17.51	18.5	0		
				1747.5	20325	17.35	18.5	0		
				1717.5	20025	17.73	18.5	0		
			74	1732.5	20175	17.43	18.5	0		
				1747.5	20325	17.54	18.5	0		
			0	1717.5	20025	17.66	18.5	0-1		
	QPSK			1732.5	20175	17.69	18.5	0-1		
		36 RB		1747.5	20325	17.42	18.5	0-1		
				1717.5	20025	17.73	17.73 18.5	0-1		
			18	1732.5	20175	17.49	18.5	0-1		
				1747.5	20325	17.38	18.5 18.5 18.5 18.5	0-1		
				1717.5	20025	17.81	18.5	0-1		
			37	1732.5	20175	17.49	18.5	0-1		
				1747.5	20325	17.41		0-1		
				1717.5	20025	17.77	18.5	0-1		
		75	RB	1732.5	20175	17.54	18.5	0-1		
15				1747.5	20325	17.46	18.5	0-1		
.0			0	1717.5	20025	17.73	18.5	0-1		
				1732.5	20175	17.78	18.5	0-1		
				1747.5	20325	17.47	18.5	0-1		
			36	1717.5	20025	17.66	18.5	0-1		
		1 RB		1732.5	20175	17.47	18.5	0-1		
				1747.5	20325	17.35	18.5	0-1		
				1717.5	20025	17.64	18.5	0-1		
			74	1732.5	20175	17.37	18.5	0-1		
				1747.5	20325	17.50	18.5	0-1		
			_	1717.5	20025	17.68	18.5	0-2		
	16-QAM		0	1732.5	20175	17.68	18.5	0-2		
				1747.5	20325	17.42	18.5	0-2		
		00.55	4.5	1717.5	20025	17.73	18.5	0-2		
		36 RB	18	1732.5	20175	17.51	18.5	0-2		
				1747.5	20325	17.39	18.5	0-2		
			07	1717.5	20025	17.80	18.5	0-2		
			37	1732.5	20175	17.51	18.5	0-2		
				1747.5	20325	17.44	18.5	0-2		
		 -	DD	1717.5	20025	17.76	18.5	0-2		
		75	RB	1732.5	20175	17.60	18.5	0-2		
				1747.5	20325	17.50	18.5	0-2		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 34 of 377

	FDD Band 4 (Reduced Power)									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1715	20000	17.78	18.5	0		
			0	1732.5	20175	17.70	18.5	0		
				1750	20350	17.46	18.5	0		
				1715	20000	17.75	18.5	0		
		1 RB	25	1732.5	20175	17.53	18.5	0		
				1750	20350	17.31	18.5	0		
				1715	20000	17.77	18.5	0		
			49	1732.5	20175	17.41	18.5	0		
				1750	20350	17.54	18.5	0		
				1715	20000	17.72	18.5	0-1		
	QPSK		0	1732.5	20175	17.59	18.5	0-1		
		25 RB		1750	20350	17.39	18.5	0-1		
				1715	20000	17.72	18.5	0-1		
			12	1732.5	20175	17.56	18.5	0-1		
				1750	20350	17.48 18.5	0-1			
				1715	20000	17.76	18.5	0-1		
			25	1732.5	20175	17.53	18.5	0-1		
				1750	20350	17.46	18.5	0-1		
				1715	20000	17.71	18.5	0-1		
		50RB		1732.5	20175	17.48	18.5	0-1		
10				1750	20350	17.49	18.5	0-1		
			0	1715	20000	17.70	18.5	0-1		
				1732.5	20175	17.67	18.5	0-1		
				1750	20350	17.40	18.5	0-1		
				1715	20000	17.62	18.5	0-1		
		1 RB	25	1732.5	20175	17.50	18.5	0-1		
				1750	20350	17.33	18.5	0-1		
				1715	20000	17.69	18.5	0-1		
			49	1732.5	20175	17.39	18.5	0-1		
				1750	20350	17.48	18.5	0-1		
			_	1715	20000	17.72	18.5	0-2		
	16-QAM		0	1732.5	20175	17.63	18.5	0-2		
				1750	20350	17.44	18.5	0-2		
				1715	20000	17.80	18.5	0-2		
		25 RB	12	1732.5	20175	17.59	18.5	0-2		
				1750	20350	17.54	18.5	0-2		
				1715	20000	17.79	18.5	0-2		
			25	1732.5	20175	17.57	18.5	0-2		
				1750	20350	17.51	18.5	0-2		
				1715	20000	17.70	18.5	0-2		
		50	RB	1732.5 1750	20175	17.52	18.5	0-2		
					20350	17.43	18.5	0-2		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 35 of 377

			FDD Ba	nd 4 (Reduced	d Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1712.5	19975	17.69	18.5	0
			0	1732.5	20175	17.53	18.5	0
				1752.5	20375	17.36	18.5	0
				1712.5	19975	17.62	18.5	0
		1 RB	12	1732.5	20175	17.53	18.5	0
				1752.5	20375	17.41	18.5	0
			24	1712.5	19975	17.64	18.5	0
				1732.5	20175	17.54	18.5	0
				1752.5	20375	17.52	18.5	0
				1712.5	19975	17.78	18.5	0-1
	QPSK	QPSK 12 RB	0	1732.5	20175	17.54	18.5	0-1
				1752.5	20375	17.48	18.5	0-1
				1712.5	19975	17.66 18.5 17.53 18.5 17.44 18.5	0-1	
			6	1732.5	20175	17.53	18.5	0-1
				1752.5	20375	17.44	18.5	0-1
				1712.5	19975	17.73	18.5	0-1
			13	1732.5	20175	17.51	17.43 18.5	0-1
				1752.5	20375	17.43	18.5	0-1
				1712.5	19975	17.64	18.5	0-1
		25RB		1732.5	20175	17.54	18.5	0-1
5				1752.5	20375	17.45	18.5	0-1
			0	1712.5	19975	17.61	18.5	0-1
				1732.5	20175	17.49	18.5	0-1
				1752.5	20375	17.37	18.5	0-1
			12	1712.5	19975	17.56	18.5	0-1
		1 RB		1732.5	20175	17.48	18.5	0-1
				1752.5	20375	17.41	18.5	0-1
				1712.5	19975	17.62	18.5	0-1
			24	1732.5	20175	17.49	18.5	0-1
				1752.5	20375	17.47	18.5	0-1
	40.044		_	1712.5	19975	17.81	18.5	0-2
	16-QAM		0	1732.5	20175	17.60	18.5	0-2
				1752.5	20375	17.53	18.5	0-2
		40.55	_	1712.5	19975	17.70	18.5	0-2
		12 RB	6	1732.5	20175	17.58	18.5	0-2
				1752.5	20375	17.51	18.5	0-2
			40	1712.5	19975	17.73	18.5	0-2
			13	1732.5	20175	17.57	18.5	0-2
				1752.5	20375	17.49	18.5	0-2
		0.5	DD	1712.5	19975	17.72	18.5	0-2
		25	RB	1732.5	20175	17.58	18.5	0-2
				1752.5	20375	17.51	18.5	0-2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_end_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this onlineful.

f (886-2) 2298-0488

prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 36 of 377

			FDD Ba	nd 4 (Reduced	d Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1711.5	19965	17.71	18.5	0
			0	1732.5	20175	17.60	18.5	0
				1753.5	20385	17.47	18.5	0
				1711.5	19965	17.62	18.5	0
		1 RB	7	1732.5	20175	17.54	18.5	0
				1753.5	20385	17.54	18.5	0
			14	1711.5	19965	17.66	18.5	0
				1732.5	20175	17.58	18.5	0
				1753.5	20385	17.58	18.5	0
				1711.5	19965	17.73	18.5	0-1
	QPSK	8 RB	0	1732.5	20175	17.52	18.5	0-1
				1753.5	20385	17.51	18.5	0-1
				1711.5	19965	17.66	18.5	0-1
			4	1732.5	20175	17.50	18.5	0-1
				1753.5	20385	17.42	18.5	0-1
				1711.5	19965	17.65	18.5	0-1
			7	1732.5	20175	17.52	17.56 18.5 17.63 18.5	0-1
				1753.5	20385	17.56		0-1
				1711.5	19965	17.63	18.5	0-1
		15RB		1732.5	20175	17.60	18.5	0-1
3				1753.5	20385	17.50	18.5	0-1
			0	1711.5	19965	17.69	18.5	0-1
				1732.5	20175	17.51	18.5	0-1
				1753.5	20385	17.49	18.5	0-1
			7	1711.5	19965	17.62	18.5	0-1
		1 RB		1732.5	20175	17.54	18.5	0-1
				1753.5	20385	17.52	18.5	0-1
				1711.5	19965	17.63	18.5	0-1
			14	1732.5	20175	17.51	18.5	0-1
				1753.5	20385	17.51	18.5	0-1
			_	1711.5	19965	17.84	18.5	0-2
	16-QAM		0	1732.5	20175	17.63	18.5	0-2
				1753.5	20385	17.51	18.5	0-2
		0.55		1711.5	19965	17.68	18.5	0-2
		8 RB	4	1732.5	20175	17.61	18.5	0-2
				1753.5	20385	17.55	18.5	0-2
			_	1711.5	19965	17.68	18.5	0-2
			7	1732.5	20175	17.64	18.5	0-2
				1753.5	20385	17.60	18.5	0-2
		4-	DD	1711.5	19965	17.67	18.5	0-2
		15	RB	1732.5	20175	17.55	18.5	0-2
				1753.5	20385	17.47	18.5	0-2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be

prosecuted to the fullest extent of the law. SGS Taiwan Ltd.



Page: 37 of 377

FDD Band 4 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				1710.7	19957	17.72	18.5	0			
			0	1732.5	20175	17.58	18.5	0			
				1754.3	20393	17.60	18.5	0			
				1710.7	19957	17.72	18.5	0			
		1 RB	2	1732.5	20175	17.57	18.5	0			
				1754.3	20393	17.61	18.5	0			
				1710.7	19957	17.79	18.5	0			
			5	1732.5	20175	17.58	18.5	0			
				1754.3	20393	17.59	18.5	0			
				1710.7	19957	17.75	18.5	0-1			
	QPSK		0	1732.5	20175	17.55	18.5	0-1			
				1754.3	20393	17.57	18.5	0-1			
				1710.7	19957	17.71	18.5	0-1			
		3 RB	2	1732.5	20175	17.55	18.5	0-1			
				1754.3	20393	17.61	18.5	0-1			
				1710.7	19957	17.74	18.5	0-1			
			3	1732.5	20175	17.57	18.5	0-1			
				1754.3	20393	17.57	18.5	0-1			
				1710.7	19957	17.73	18.5	0-1			
		6F	RB	1732.5	20175	17.53	18.5	0-1			
1.4				1754.3	20393	17.61	18.5	0-1			
1.4				1710.7	19957	17.70	18.5	0-1			
			0	1732.5	20175	17.54	18.5	0-1			
				1754.3	20393	17.56	18.5	0-1			
				1710.7	19957	17.62	18.5	0-1			
		1 RB	2	1732.5	20175	17.50	18.5	0-1			
				1754.3	20393	17.54	18.5	0-1			
				1710.7	19957	17.70	18.5	0-1			
			5	1732.5	20175	17.50	18.5	0-1			
				1754.3	20393	17.54	18.5	0-1			
				1710.7	19957	17.64	18.5	0-2			
	16-QAM		0	1732.5	20175	17.52	18.5	0-2			
				1754.3	20393	17.52	18.5	0-2			
				1710.7	19957	17.68	18.5	0-2			
		3 RB	2	1732.5	20175	17.49	18.5	0-2			
				1754.3	20393	17.55	18.5	0-2			
				1710.7	19957	17.73	18.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1			
			3	1732.5	20175	17.51	18.5				
				1754.3	20393	17.56	18.5				
				1710.7	19957	17.65	18.5				
		6F	RB	1732.5	20175	17.48	18.5	0-2			
				1754.3	20393	17.49	18.5	0-2			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 38 of 377

			FDD	Band 5 (Full P	ower)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				829	20450	22.75	24	0
			0	836.5	20525	22.92	24	0
				844	20600	23.10	24	0
				829	20450	22.80	24	0
		1 RB	25	836.5	20525	23.09	24	0
				844	20600	23.12	24	0
				829	20450	22.97	24	0
			49	836.5	20525	23.18	24	0
				844	20600	22.97	24	0
				829	20450	21.75	23	0-1
	QPSK		0	836.5	20525	22.08	23	0-1
				844	20600	22.09	23	0-1
				829	20450	21.81	23	0-1
		25 RB	12	836.5	20525	22.01	23	0-1
				844	20600	22.08	23	0-1
				829	20450	21.93	23	0-1
			25	836.5	20525	22.14	23	0-1
				844	20600	22.13	23	0-1
				829	20450	21.90	23	0-1
		50	RB	836.5	20525	22.06	23	0-1
10				844	20600	22.20	23	0-1
				829	20450	21.91	23	0-1
			0	836.5	20525	21.98	23	0-1
				844	20600	21.97	23	0-1
				829	20450	21.63	23	0-1
		1 RB	25	836.5	20525	21.97	23	0-1
				844	20600	22.00	23	0-1
				829	20450	22.14	23	0-1
			49	836.5	20525	22.29	23	0-1
				844	20600	21.71	23	0-1
	46.0444		_	829	20450	20.70	22	0-2
	16-QAM		0	836.5	20525	21.05	22	0-2
				844	20600	21.20	22	0-2
		0E DD	40	829	20450	20.88	22	0-2
		25 RB	12	836.5	20525	21.11	22	0-2
				844	20600	21.17	22	0-2
			25	829	20450	21.00	22	0-2
			25	836.5	20525	21.13	22	0-2
				844	20600	21.18	22	0-2
		F0	DD	829	20450	20.84	22	0-2
		50	RB	836.5	20525	21.09	22	0-2
				844	20600	21.18	22	0-2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 39 of 377

	FDD Band 5 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				826.5	20425	22.60	24	0				
			0	836.5	20525	22.73	24	0				
				846.5	20625	23.05	24	0				
				826.5	20425	22.53	24	0				
		1 RB	12	836.5	20525	22.95	24	0				
				846.5	20625	22.93	24	0				
				826.5	20425	22.63	24	0				
			24	836.5	20525	22.97	24	0				
				846.5	20625	22.96	24	0				
				826.5	20425	21.72	23	0-1				
	QPSK		0	836.5	20525	21.97	23	0-1				
				846.5	20625	22.09	23	0-1				
				826.5	20425	21.68	23	0-1				
		12 RB	6	836.5	20525	21.92	23	0-1				
				846.5	20625	22.01	23	0-1				
				826.5	20425	21.69	23	0-1				
			13	836.5	20525	22.04	23	0-1				
				846.5	20625	22.07	23	0-1				
				826.5	20425	21.64	23	0-1				
		25	RB	836.5	20525	21.95	23	0-1				
5				846.5	20625	22.01	23	0-1				
				826.5	20425	21.51	23	0-1				
			0	836.5	20525	21.79	23	0-1				
				846.5	20625	21.93	23	0-1				
				826.5	20425	21.42	23	0-1				
		1 RB	12	836.5	20525	21.71	23	0-1				
				846.5	20625	22.29	23					
				826.5	20425	21.83	23					
			24	836.5	20525	22.01	23					
				846.5	20625	21.69	23					
			_	826.5	20425	20.66	22					
	16-QAM		0	836.5	20525	21.02	22	-				
				846.5	20625	20.97	22					
		40.55		826.5	20425	20.72	22					
		12 RB	6	836.5	20525	20.88	22					
				846.5	20625	21.13	22					
			40	826.5	20425	20.73	22					
			13	836.5	20525	21.10	22	0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-				
				846.5	20625	21.03	22					
				826.5	20425	20.65	22					
	25F	KR	836.5	20525	20.92	22						
				846.5	20625	21.09	22	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 40 of 377

			FDD	Band 5 (Full P	ower)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				825.5	20415	22.65	24	0
			0	836.5	20525	22.98	24	0
				847.5	20635	22.98	24	0
				825.5	20415	22.61	24	0
		1 RB	7	836.5	20525	22.93	24	0
				847.5	20635	22.90	24	0
				825.5	20415	22.69	24	0
			14	836.5	20525	22.97	24	0
				847.5	20635	23.04	24	0
				825.5	20415	21.74	23	0-1
	QPSK		0	836.5	20525	22.00	23	0-1
				847.5	20635	22.06	23	0-1
				825.5	20415	21.68	23	0-1
		8 RB	4	836.5	20525	22.05	23	0-1
				847.5	20635	22.15	23	0-1
				825.5	20415	21.68	23	0-1
			7	836.5	20525	22.03	23	0-1
				847.5	20635	22.07	23	0-1
				825.5	20415	21.74	23	0-1
		15	RB	836.5	20525	22.01	23	0-1
3				847.5	20635	22.15	23	0-1
			_	825.5	20415	21.45	23	0-1
			0	836.5	20525	21.67	23	0-1
				847.5	20635	22.04	23	0-1
				825.5	20415	21.56	23	0-1
		1 RB	7	836.5	20525	21.83	23	0-1
				847.5	20635	21.80	23	0-1
				825.5	20415	21.84	23	0-1
			14	836.5	20525	21.93	23	0-1
				847.5	20635	21.89	23	
				825.5	20415	20.67	22	
	16-QAM		0	836.5	20525	21.01	22	
				847.5	20635	21.02	22	0-2
				825.5	20415	20.72	22	0-2
		8 RB	4	836.5	20525	21.00	22	0-2
				847.5	20635	21.00	22	
			_	825.5	20415	20.60	22	0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-
			7	836.5	20525	21.16	22	
				847.5	20635	21.06	22	
				825.5	20415	20.86	22	
		15	RB	836.5	20525	20.91	22	
				847.5	20635	20.91	22	0-2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 41 of 377

FDD Band 5 (Full Power)											
			I	Dania 5 (Full P	OWEI)		T-: 1				
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				824.7	20407	22.57	24	0			
			0	836.5	20525	23.00	24	0			
				848.3	20643	22.94	24	0			
				824.7	20407	22.64	24	0			
		1 RB	2	836.5	20525	23.11	24	0			
				848.3	20643	22.93	24	0			
				824.7	20407	22.71	24	0			
			5	836.5	20525	23.08	24	0			
				848.3	20643	23.03	24	0			
				824.7	20407	21.80	23	0-1			
	QPSK		0	836.5	20525	22.23	23	0-1			
				848.3	20643	22.30	23	0-1			
				824.7	20407	21.82	23	0-1			
		3 RB	2	836.5	20525	22.27	23	0-1			
				848.3	20643	22.26	23	0-1			
				824.7	20407	21.80	23	0-1			
			3	836.5	20525	22.28	23	0-1			
				848.3	20643	22.15	23	0-1			
				824.7	20407	21.68	23	0-1			
		6F	RB	836.5	20525	22.03	23	0-1			
1.4				848.3	20643	22.02	23	0-1			
1.4				824.7	20407	21.69	23	0-1			
			0	836.5	20525	21.56	23	0-1			
				848.3	20643	22.17	23	0-1			
				824.7	20407	21.87	23	0-1			
		1 RB	2	836.5	20525	21.88	23	0-1			
				848.3	20643	21.90	23	0-1			
				824.7	20407	21.51	23	0-1			
			5	836.5	20525	22.21	23	0-1			
				848.3	20643	21.87	23	0-1			
				824.7	20407	20.69	22	0-2			
	16-QAM		0	836.5	20525	21.20	22	0-2			
				848.3	20643	21.10	22	0-2			
				824.7	20407	20.89	22	0-2			
		3 RB	2	836.5	20525	21.19	22	0-2			
				848.3	20643	21.26	22	0-2			
				824.7	20407	20.73	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-			
			3	836.5	20525	21.23	22				
				848.3	20643	21.06	22	0-2			
				824.7	20407	20.61	22	0-2			
	61	₹В	836.5	20525	20.97	22	0-2				
				848.3	20643	20.84	22	0-2			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 42 of 377

			FDD Ba	nd 5 (Reduced	l Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				829	20450	19.38	20	0
			0	836.5	20525	19.56	20	0
				844	20600	19.75	20	0
				829	20450	19.44	20	0
		1 RB	25	836.5	20525	19.68	20	0
				844	20600	19.64	20	0
				829	20450	19.53	20	0
			49	836.5	20525	19.71	20	0
				844	20600	19.70	20	0
				829	20450	19.40	20	0-1
	QPSK		0	836.5	20525	19.63	20	0-1
				844	20600	19.66	20	0-1
				829	20450	19.41	20	0-1
		25 RB	12	836.5	20525	19.61	20	0-1
				844	20600	19.64	20	0-1
				829	20450	19.54	20	0-1
			25	836.5	20525	19.67	20	0-1
				844	20600	19.62	20	0-1
				829	20450	19.49	20	0-1
		50	RB	836.5	20525	19.65	20	0-1
10				844	20600	19.71	20	0-1
10				829	20450	19.33	20	0-1
			0	836.5	20525	19.54	20	0-1
				844	20600	19.71	20	0-1
				829	20450	19.42	20	0-1
		1 RB	25	836.5	20525	19.65	20	0-1
				844	20600	19.64	20	0-1
				829	20450	19.49	20	0-1
			49	836.5	20525	19.68	20	0-1
				844	20600	19.69	20	0-1
				829	20450	19.40	20	0-2
	16-QAM		0	836.5	20525	19.67	20	0-2
				844	20600	19.65	20	0-2
				829	20450	19.49	20	0-2
		25 RB	12	836.5	20525	19.64	20	0-2
				844	20600	19.65	20	0-2
				829	20450	19.57	20	0-2
			25	836.5	20525	19.56	20	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1
				844	20600	19.66	20	0-2
				829	20450	19.44	20	0-2
		50RB		836.5	20525	19.65	20	0-2
				844	20600	19.70	20	0-2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 43 of 377

	FDD Band 5 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				826.5	20425	19.17	20	0				
			0	836.5	20525	19.34	20	0				
				846.5	20625	19.46	20	0				
				826.5	20425	19.14	20	0				
		1 RB	12	836.5	20525	19.45	20	0				
				846.5	20625	19.44	20	0				
				826.5	20425	19.24	20	0				
			24	836.5	20525	19.50	20	0				
				846.5	20625	19.48	20	0				
				826.5	20425	19.18	20	0-1				
	QPSK		0	836.5	20525	19.46	20	0-1				
				846.5	20625	19.49	20	0-1				
				826.5	20425	19.16	20	0-1				
		12 RB	6	836.5	20525	19.41	20	0-1				
				846.5	20625	19.50	20	0-1				
				826.5	20425	19.16	20	0-1				
			13	836.5	20525	19.57	20	0-1				
				846.5	20625	19.44	20	0-1				
				826.5	20425	19.15	20	0-1				
		25	RB	836.5	20525	19.40	20	0-1				
5				846.5	20625	19.52	20	0-1				
3				826.5	20425	19.10	20	0-1				
			0	836.5	20525	19.31	20	0-1				
				846.5	20625	19.48	20	0-1				
				826.5	20425	19.05	20	0-1				
		1 RB	12	836.5	20525	19.50	20	0-1				
				846.5	20625	19.41	20	0-1				
				826.5	20425	19.14	20	0-1				
			24	836.5	20525	19.46	20	0-1				
				846.5	20625	19.42	20	0-1				
				826.5	20425	19.24	20	0-2				
	16-QAM		0	836.5	20525	19.48	20	0-2				
				846.5	20625	19.57	20	0-2				
				826.5	20425	19.23	20	0-2				
		12 RB	6	836.5	20525	19.48	20	0-2				
				846.5	20625	19.54	20	0-2				
				826.5	20425	19.23	20	0-2				
			13	836.5	20525	19.59	20	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1				
				846.5	20625	19.55	20					
				826.5	20425	19.20	20					
		25	RB	836.5	20525	19.44	20	0-2				
				846.5	20625	19.54	20	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_end_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this onlineful.

f (886-2) 2298-0488

prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 44 of 377

			FDD Ba	nd 5 (Reduced	d Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				825.5	20415	19.21	20	0
			0	836.5	20525	19.48	20	0
				847.5	20635	19.53	20	0
				825.5	20415	19.16	20	0
		1 RB	7	836.5	20525	19.52	20	0
				847.5	20635	19.45	20	0
				825.5	20415	19.20	20	0
			14	836.5	20525	19.51	20	0
				847.5	20635	19.50	20	0
				825.5	20415	19.23	20	0-1
	QPSK		0	836.5	20525	19.43	20	0-1
				847.5	20635	19.52	20	0-1
				825.5	20415	19.21	20	0-1
		8 RB	4	836.5	20525	19.51	20	0-1
				847.5	20635	19.48	20	0-1
				825.5	20415	19.22	20	0-1
			7	836.5	20525	19.51	20	0-1
				847.5	20635	19.49	20	0-1
				825.5	20415	19.23	20	0-1
		15	RB	836.5	20525	19.43	20	0-1
3				847.5	20635	19.50	20	0-1
				825.5	20415	19.17	20	0-1
			0	836.5	20525	19.45	20	0-1
				847.5	20635	19.45	20	0-1
				825.5	20415	19.07	20	0-1
		1 RB	7	836.5	20525	19.45	20	0-1
				847.5	20635	19.48	20	0-1
				825.5	20415	19.15	20	0-1
			14	836.5	20525	19.53	20	0-1
				847.5	20635	19.48	20	0-1
				825.5	20415	19.26	20	0-2
	16-QAM		0	836.5	20525	19.50	20	0-2
				847.5	20635	19.61	20	0-2
				825.5	20415	19.27	20	0-2
		8 RB	4	836.5	20525	19.57	20	0-2
				847.5	20635	19.58	20	0-2
				825.5	20415	19.23	20	0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1
			7	836.5	20525	19.60	20	
				847.5	20635	19.59	20	
				825.5	20415	19.19	20	
		15	RB	836.5	20525	19.46	20	
		. 52	847.5	20635	19.53	20	0-2	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 45 of 377

			FDD Ba	nd 5 (Reduced	d Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				824.7	20407	19.24	20	0
			0	836.5	20525	19.57	20	0
				848.3	20643	19.54	20	0
				824.7	20407	19.20	20	0
		1 RB	2	836.5	20525	19.60	20	0
				848.3	20643	19.52	20	0
				824.7	20407	19.24	20	0
			5	836.5	20525	19.60	20	0
				848.3	20643	19.55	20	0
				824.7	20407	19.26	20	0-1
	QPSK		0	836.5	20525	19.61	20	0-1
				848.3	20643	19.53	20	0-1
				824.7	20407	19.20	20	0-1
		3 RB	2	836.5	20525	19.56	20	0-1
				848.3	20643	19.48	20	0-1
				824.7	20407	19.20	20	0-1
			3	836.5	20525	19.57	20	0-1
				848.3	20643	19.53	20	0-1
				824.7	20407	19.22	20	0-1
		6	RB	836.5	20525	19.55	20	0-1
1.4				848.3	20643	19.53	20	0-1
1.4				824.7	20407	19.16	20	0-1
			0	836.5	20525	19.55	20	0-1
				848.3	20643	19.49	20	0-1
				824.7	20407	19.21	20	0-1
		1 RB	2	836.5	20525	19.51	20	0-1
				848.3	20643	19.48	20	0-1
				824.7	20407	19.21	20	0-1
			5	836.5	20525	19.53	20	0-1
				848.3	20643	19.48	20	0-1
				824.7	20407	19.18	20	0-2
	16-QAM		0	836.5	20525	19.53	20	0-2
				848.3	20643	19.48	20	0-2
				824.7	20407	19.13	20	0-2
		3 RB	2	836.5	20525	19.49	20	0-2
				848.3	20643	19.45	20	0-2
				824.7	20407	19.14	20	0-2 0-2 0-2 0-2 0-2 0-2 0-2
			3	836.5	20525	19.56	20	0-2
				848.3	20643	19.47	20	0-2
				824.7	20407	19.11	20	0-2
	6RB	RB	836.5	20525	19.51	20	0-2	
	1			848.3	20643	19.47	20	0-2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 46 of 377

			FDD	Band 7 (Full P	ower)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2510	20850	22.59	24	0
			0	2535	21100	22.72	24	0
				2560	21350	22.91	24	0
				2510	20850	22.61	24	0
		1 RB	50	2535	21100	22.68	24	0
				2560	21350	23.28	24	0
				2510	20850	22.53	24	0
			99	2535	21100	22.90	24	0
				2560	21350	22.93	24	0
				2510	20850	21.33	23	0-1
	QPSK		0	2535	21100	21.81	23	0-1
				2560	21350	21.99	23	0-1
				2510	20850	21.68	23	0-1
		50 RB	25	2535	21100	21.82	23	0-1
				2560	21350	21.99	23	0-1
				2510	20850	21.69	23	0-1
			50	2535	21100	21.81	23	0-1
				2560	21350	21.93	23	0-1
				2510	20850	21.59	23	0-1
		100)RB	2535	21100	22.12	23	0-1
20				2560	21350	21.93	23	0-1
				2510	20850	21.44	23	0-1
			0	2535	21100	22.00	23	0-1
				2560	21350	21.89	23	0-1
				2510	20850	21.52	23	0-1
		1 RB	50	2535	21100	21.84	23	0-1
				2560	21350	21.95	23	0-1
				2510	20850	21.83	23	0-1
			99	2535	21100	21.67	23	0-1
				2560	21350	22.24	23	0-1
			_	2510	20850	20.24	22	0-2
	16-QAM		0	2535	21100	20.83	22	0-2
				2560	21350	21.13	22	0-2
				2510	20850	20.59	22	0-2
		50 RB	25	2535	21100	20.79	22	0-2
				2560	21350	21.08	22	0-2
				2510	20850	20.67	22	0-2
			50	2535	21100	20.87	22	0-2
				2560	21350	21.35	22	0-2
				2510	20850	20.54	22	0-2
		100)RB	2535	21100	20.77	22	0-2
				2560	21350	21.09	22	0-2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 47 of 377

			FDD	Band 7 (Full P	ower)						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				2507.5	20825	22.36	24	0			
			0	2535	21100	22.63	24	0			
				2562.5	21375	23.02	24	0			
				2507.5	20825	22.42	24	0			
		1 RB	36	2535	21100	22.72	24	0			
				2562.5	21375	23.02	24	0			
				2507.5	20825	22.42	24	0			
			74	2535	21100	22.80	24	0			
				2562.5	21375	22.97	24	0			
				2507.5	20825	21.07	23	0-1			
	QPSK		0	2535	21100	21.85	23	0-1			
				2562.5	21375	21.84	23	0-1			
				2507.5	20825	21.51	23	0-1			
		36 RB	18	2535	21100	21.64	23	0-1			
				2562.5	21375	21.92	23	0-1			
				2507.5	20825	21.56	23	0-1			
			37	2535	21100	21.55	23	0-1			
				2562.5	21375	22.16	23	0-1			
				2507.5	20825	21.32	23	0-1			
		75	RB	2535	21100	21.85	23	0-1			
15				2562.5	21375	21.81	23	0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-			
13				2507.5	20825	21.39	23	0-1			
			0	2535	21100	21.70	23	0-1			
				2562.5	21375	21.46	23	0-1			
				2507.5	20825	21.38	23	0-1			
		1 RB	36	2535	21100	21.80	23	0-1			
				2562.5	21375	21.99	23	0-1			
				2507.5	20825	21.42	23	0-1			
			74	2535	21100	21.68	23	0-1			
				2562.5	21375	21.91	23	0-1			
				2507.5	20825	20.52	22	0-2			
	16-QAM		0	2535	21100	20.96	22	0-2			
				2562.5	21375	20.92	22	0-2			
				2507.5	20825	20.53	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1			
		36 RB	18	2535	21100	20.76	22	0-2			
				2562.5	21375	20.92	22	0-2			
				2507.5	20825	20.56	22	0-2			
			37	2535	21100	20.63	22	0-2			
				2562.5	21375	20.91	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1			
				2507.5	20825	20.36	22				
		75	RB	2535	21100	20.65	22	0-2			
				2562.5	21375	20.92	22	0-2			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 48 of 377

			FDD	Band 7 (Full P	ower)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2505	20800	22.38	24	0
			0	2535	21100	22.65	24	0
				2565	21400	23.07	24	0
				2505	20800	22.34	24	0
		1 RB	25	2535	21100	22.52	24	0
				2565	21400	23.04	24	0
				2505	20800	22.48	24	0
			49	2535	21100	22.76	24	0
				2565	21400	22.97	24	0
				2505	20800	21.45	23	0-1
	QPSK		0	2535	21100	21.67	23	0-1
				2565	21400	21.92	23	0-1
				2505	20800	21.28	23	0-1
		25 RB	12	2535	21100	21.69	23	0-1
				2565	21400	21.91	23	0-1
				2505	20800	21.41	23	0-1
			25	2535	21100	21.69	23	0-1
				2565	21400	21.88	23	0-1
				2505	20800	21.56	23	0-1
		50	RB	2535	21100	21.65	23	0-1
10				2565	21400	21.90	23	0-1
				2505	20800	21.18	23	0-1
			0	2535	21100	21.23	23	0-1
				2565	21400	22.20	23	0-1
				2505	20800	21.49	23	0-1
		1 RB	25	2535	21100	21.76	23	0-1
				2565	21400	21.72	23	
				2505	20800	21.42	23	
			49	2535	21100	21.47	23	ł
				2565	21400	22.08	23	
				2505	20800	20.48	22	
	16-QAM		0	2535	21100	20.73	22	+
				2565	21400	21.04	22	0-2
				2505	20800	20.32	22	0-2
		25 RB	12	2535	21100	20.74	22	
				2565	21400	20.97	22	
				2505	20800	20.47	22	0-2
			25	2535	21100	20.72	22	0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-
				2565	21400	21.01	22	
				2505	20800	20.10	22	
	50	50	RB	2535	21100	20.62	22	
			2565	21400	20.98	22	0-2	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 49 of 377

			FDD	Band 7 (Full P	ower)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2502.5	20775	22.29	24	0
			0	2535	21100	22.69	24	0
				2567.5	21425	22.90	24	0
				2502.5	20775	22.15	24	0
		1 RB	12	2535	21100	22.43	24	0
				2567.5	21425	22.87	24	0
				2502.5	20775	22.39	24	0
			24	2535	21100	22.65	24	0
				2567.5	21425	22.83	24	0
				2502.5	20775	21.40	23	0-1
	QPSK		0	2535	21100	21.64	23	0-1
				2567.5	21425	21.87	23	0-1
				2502.5	20775	21.44	23	0-1
		12 RB	6	2535	21100	21.69	23	0-1
				2567.5	21425	21.90	23	0-1
				2502.5	20775	21.46	23	0-1
			13	2535	21100	21.69	23	0-1
				2567.5	21425	21.81	23	0-1
				2502.5	20775	21.40	23	0-1
		25	RB	2535	21100	22.00	23	0-1
5				2567.5	21425	21.88	23	0-1
				2502.5	20775	21.38	23	0-1
			0	2535	21100	21.49	23	0-1
				2567.5	21425	22.20	23	0-1
				2502.5	20775	21.13	23	0-1
		1 RB	12	2535	21100	21.41	23	0-1
				2567.5	21425	21.51	23	0-1
				2502.5	20775	21.35	23	0-1
			24	2535	21100	21.28	23	0-1
				2567.5	21425	21.92	23	
				2502.5	20775	20.47	22	
	16-QAM		0	2535	21100	20.73	22	0-2
				2567.5	21425	20.89	22	0-2
				2502.5	20775	20.43	22	0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-
		12 RB	6	2535	21100	20.75	22	
				2567.5	21425	20.98	22	
				2502.5	20775	20.55	22	
			13	2535	21100	20.79	22	
				2567.5	21425	20.96	22	
				2502.5	20775	20.40	22	
		25	RB	2535	21100	20.69	22	
				2567.5	21425	20.91	22	0-2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 50 of 377

	FDD Band 7 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				2510	20850	17.92	19	0				
			0	2535	21100	18.00	19	0				
				2560	21350	18.22	19	0				
				2510	20850	17.91	19	0				
		1 RB	50	2535	21100	17.97	19	0				
				2560	21350	18.40	19	0				
				2510	20850	17.94	19	0				
			99	2535	21100	18.09	19	0				
				2560	21350	18.47	19	0				
				2510	20850	17.90	19	0-1				
	QPSK		0	2535	21100	17.97	19	0-1				
				2560	21350	18.38	19	0-1				
				2510	20850	17.94	19	0-1				
		50 RB	25	2535	21100	17.98	19	0-1				
				2560	21350	18.32	19	0-1				
				2510	20850	17.98	19	0-1				
			50	2535	21100	18.03	19	0-1				
				2560	21350	18.49	19	0-1				
				2510	20850	17.97	19	0-1				
		100)RB	2535	21100	17.94	19	0-1				
20				2560	21350	18.35	19	0-1				
				2510	20850	17.87	19	0-1				
			0	2535	21100	17.96	19	0-1				
				2560	21350	18.13	19	0-1				
				2510	20850	17.88	19	0-1				
		1 RB	50	2535	21100	17.87	19	0-1				
				2560	21350	18.39	19					
				2510	20850	17.88	19	0-1				
			99	2535	21100	18.04	19	0-1				
				2560	21350	18.39	19					
				2510	20850	17.96	19	0-2				
	16-QAM		0	2535	21100	17.94	19	0-2				
				2560	21350	18.36	19	0-2				
				2510	20850	17.97	19	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-				
		50 RB	25	2535	21100	17.93	19					
				2560	21350	18.34	19					
				2510	20850	17.95	19	0-2 0-2 0-2 0-2 0-2 0-2 0-2				
			50	2535	21100	18.06	19	+				
				2560	21350	18.45	19					
				2510	20850	17.93	19					
		100)RB	2535	21100	17.92	19					
				2560	21350	18.33	19	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 51 of 377

	FDD Band 7 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				2507.5	20825	17.95	19	0				
			0	2535	21100	18.02	19	0				
				2562.5	21375	18.38	19	0				
				2507.5	20825	17.92	19	0				
		1 RB	36	2535	21100	17.93	19	0				
				2562.5	21375	18.43	19	0				
				2507.5	20825	17.96	19	0				
			74	2535	21100	18.06	19	0				
				2562.5	21375	18.48	19	0				
				2507.5	20825	17.94	19	0-1				
QPSK	QPSK		0	2535	21100	17.97	19	0-1				
				2562.5	21375	18.34	19	0-1				
				2507.5	20825	17.94	19	0-1				
		36 RB	18	2535	21100	17.97	19	0-1				
				2562.5	21375	18.39	19	0-1				
				2507.5	20825	17.97	19	0-1				
			37	2535	21100	17.93	19	0-1				
				2562.5	21375	18.41	19	0-1				
				2507.5	20825	17.95	19	0-1				
		75	RB	2535	21100	17.97	19	0-1				
15				2562.5	21375	18.35	19	0-1				
				2507.5	20825	17.90	19	0-1				
			0	2535	21100	17.91	19	0-1				
				2562.5	21375	18.33	19	0-1				
				2507.5	20825	17.84	19	0-1				
		1 RB	36	2535	21100	17.84	19	0-1				
				2562.5	21375	18.37	19					
				2507.5	20825	17.90	19	0-1				
			74	2535	21100	17.97	19	0-1				
				2562.5	21375	18.40	19	 				
			_	2507.5	20825	17.89	19	0-2				
	16-QAM		0	2535	21100	17.97	19					
				2562.5	21375	18.33	19	0-2				
				2507.5	20825	17.90	19	0-2				
		36 RB	18	2535	21100	17.89	19	0-2				
				2562.5	21375	18.39	19					
				2507.5	20825	17.97	19	0-2				
			37	2535	21100	17.92	19	0-2				
				2562.5	21375	18.41	19	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
				2507.5	20825	17.98	19					
		75	RB	2535	21100	17.94	19	ł — — — — — — — — — — — — — — — — — — —				
			2562.5	21375	18.35	19	0-2					

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 52 of 377

			FDD Ba	nd 7 (Reduced	d Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2505	20800	17.93	19	0
			0	2535	21100	17.94	19	0
				2565	21400	18.41	19	0
				2505	20800	17.94	19	0
		1 RB	25	2535	21100	17.94	19	0
				2565	21400	18.37	19	0
				2505	20800	17.96	19	0
			49	2535	21100	18.04	19	0
				2565	21400	18.44	19	0
				2505	20800	17.94	19	0-1
	QPSK		0	2535	21100	17.92	19	0-1
				2565	21400	18.42	19	0-1
				2505	20800	17.96	19	0-1
		25 RB	12	2535	21100	17.99	19	0-1
				2565	21400	18.40	19	0-1
				2505	20800	17.95	19	0-1
			25	2535	21100	17.91	19	0-1
				2565	21400	18.44	19	0-1
				2505	20800	17.98	19	0-1
		50	RB	2535	21100	17.98	19	0-1
10				2565	21400	18.40	19	0-1
				2505	20800			0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
			0	2535	21100			
				2565	21400			
				2505	20800	•		
		1 RB	25	2535	21100			
				2565	21400			
				2505	20800	Conducted power (dBm) Power + Max. Tolerance (dBm) MPR Allowed per 3GPP(dB) 17.93 19 0 17.94 19 0 18.41 19 0 17.94 19 0 17.94 19 0 17.94 19 0 18.37 19 0 18.04 19 0 18.04 19 0 18.44 19 0 17.94 19 0-1 17.95 19 0-1 17.96 19 0-1 17.96 19 0-1 17.96 19 0-1 17.96 19 0-1 17.99 19 0-1 17.99 19 0-1 17.95 19 0-1 17.95 19 0-1 17.98 19 0-1 17.88 19 0-1 17.86 19 0-1		
			49	2535	21100			
				2565	21400			
	40.0			2505	20800			
	16-QAM		0	2535	21100			+
				2565	21400			
		05.55	40	2505	20800			
		25 RB	12	2535	21100			
				2565	21400			
			0.5	2505	20800			Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1
			25	2535	21100			
				2565	21400			
			DD	2505	20800			
		50	RB	2535	21100	1		
				2565	21400	18.41	19	0-2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 53 of 377

	FDD Band 7 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				2502.5	20775	17.82	19	0				
			0	2535	21100	17.92	19	0				
				2567.5	21425	18.22	19	0				
				2502.5	20775	17.93	19	0				
		1 RB	12	2535	21100	17.88	19	0				
				2567.5	21425	18.21	19	0				
				2502.5	20775	17.98	19	0				
			24	2535	21100	18.01	19	0				
				2567.5	21425	18.34	19	0				
				2502.5	20775	18.05	19	0-1				
	QPSK		0	2535	21100	18.14	19	0-1				
				2567.5	21425	18.22	19	0-1				
				2502.5	20775	18.06	19	0-1				
		12 RB	6	2535	21100	17.73	19	0-1				
				2567.5	21425	18.22	19	0-1				
				2502.5	20775	18.14	19	0-1				
			13	2535	21100	18.05	19	0-1				
				2567.5	21425	18.05	19	0-1				
				2502.5	20775	17.94	19	0-1				
		25	RB	2535	21100	18.13	19	0-1				
5				2567.5	21425	18.11	19	0-1				
Ĭ				2502.5	20775	18.02	19	0-1				
			0	2535	21100	17.99	19	0-1				
				2567.5	21425	18.38	19	0-1				
				2502.5	20775	17.86	19	0-1				
		1 RB	12	2535	21100	18.05	19	0-1				
				2567.5	21425	18.02	19	0-1				
				2502.5	20775	18.24	19	0-1				
			24	2535	21100	18.01	19	0-1				
				2567.5	21425	17.99	19	0-1				
				2502.5	20775	18.22	19					
	16-QAM		0	2535	21100	17.85	19	0-2				
				2567.5	21425	18.21	19	0-2				
				2502.5	20775	18.04	19	0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1				
		12 RB	6	2535	21100	18.04	19					
				2567.5	21425	18.04	19					
				2502.5	20775	18.03	19	er + MPR Allowed per 3GPP(dB) 9 0 0 1 9 0 0 2 9 0 0 2 9 0 0 2 9 0 0 2 9 0 0 2 9 0 0 2 9 0 0 2 9 0 0 2 9 0 0 2 9 0 0 2 9 0 0 2				
			13	2535	21100	17.94	19					
				2567.5	21425	18.48	19					
				2502.5	20775	17.94	19	0-2				
		25	RB	2535	21100	17.98	19	0-2				
				201		2567.5	21425	18.32	19	0-2		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 54 of 377

	FDD Band 12 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				704	23060	22.71	24	0				
			0	707.5	23095	22.91	24	0				
				711	23130	22.87	24	0				
				704	23060	22.89	24	0				
		1 RB	25	707.5	23095	22.91	24	0				
				711	23130	22.84	24	0				
				704	23060	23.04	24	0				
			49	707.5	23095	22.91	24	0				
				711	23130	23.00	24	0				
				704	23060	21.87	23	0-1				
	QPSK		0	707.5	23095	21.51	23	0-1				
				711	23130	22.03	23	0-1				
				704	23060	21.59	23	0-1				
		25 RB	12	707.5	23095	22.00	23	0-1				
				711	23130	22.00	23	0-1				
				704	23060	22.05	23	0-1				
			25	707.5	23095	22.07	23	0-1				
				711	23130	22.04	23	0-1				
				704	23060	21.95	23	0-1				
		50	RB	707.5	23095	22.07	23	0-1				
10				711	23130	22.05	23	0-1				
				704	23060	21.77	23					
			0	707.5	23095	22.06	23					
				711	23130	21.83	23					
				704	23060	21.81	23	-				
		1 RB	25	707.5	23095	21.84	23					
				711	23130	21.67	23					
				704	23060	22.25	23					
			49	707.5	23095	21.67	23					
				711	23130	22.29	23					
	46.0444		_	704	23060	20.88	22					
	16-QAM		0	707.5	23095	21.04	22					
				711	23130	21.00	22					
		0E DD	40	704	23060	21.06	22					
		25 RB	12	707.5	23095	20.98	22					
				711	23130	21.03	22					
			25	704	23060	20.97	22					
			25	707.5	23095	21.02	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0-1 0-				
				711	23130	21.05	22					
		F0	DD	704 707 F	23060	20.92	22					
	50	עט	707.5	23095	21.02	22						
				711	23130	21.12	22	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 55 of 377

	FDD Band 12 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				701.5	23035	22.41	24	0				
			0	707.5	23095	22.86	24	0				
				713.5	23155	22.61	24	0				
				701.5	23035	22.68	24	0				
		1 RB	12	707.5	23095	22.75	24	0				
				713.5	23155	22.80	24	0				
				701.5	23035	22.94	24	0				
			24	707.5	23095	22.80	24	0				
				713.5	23155	22.80	24	0				
				701.5	23035	21.69	23	0-1				
	QPSK		0	707.5	23095	21.81	23	0-1				
				713.5	23155	21.87	23	0-1				
				701.5	23035	21.63	23	0-1				
		12 RB	6	707.5	23095	21.68	23	0-1				
				713.5	23155	21.81	23	0-1				
				701.5	23035	21.68	23	0-1				
			13	707.5	23095	21.87	23	0-1				
				713.5	23155	21.72	23	0-1				
				701.5	23035	21.63	23	0-1				
		25	RB	707.5	23095	21.71	23	0-1				
5				713.5	23155	21.83	23	0-1				
				701.5	23035	21.52	23	0-1				
			0	707.5	23095	21.77	23	0-1				
				713.5	23155	21.54	23	0-1				
				701.5	23035	21.74	23	0-1				
		1 RB	12	707.5	23095	21.62	23	0-1				
				713.5	23155	21.80	23	0-1				
				701.5	23035	21.97	23	0-1				
			24	707.5	23095	21.66	23	0-1				
				713.5	23155	21.87	23	0-1				
				701.5	23035	20.71	22	0-2				
	16-QAM		0	707.5	23095	20.79	22	0-2				
				713.5	23155	20.79	22	0-2				
		40.77	_	701.5	23035	20.54	22	0-2				
		12 RB	6	707.5	23095	20.70	22	0-2				
				713.5	23155	20.78	22	0-2				
			4.5	701.5	23035	20.68	22	0-2				
			13	707.5	23095	20.91	22	0-2				
				713.5	23155	20.81	22	0-2				
			DD	701.5	23035	20.59	22	0-2				
		25	RB	707.5	23095	21.04	22	0-2				
				713.5	23155	20.80	22	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 56 of 377

			FDD E	Band 12 (Full F	Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				700.5	23025	22.45	24	0
			0	707.5	23095	22.55	24	0
				714.5	23165	22.93	24	0
				700.5	23025	22.65	24	0
		1 RB	7	707.5	23095	22.69	24	0
				714.5	23165	22.52	24	0
				700.5	23025	22.61	24	0
			14	707.5	23095	22.81	24	0
				714.5	23165	22.89	24	0
				700.5	23025	21.69	23	0-1
	QPSK		0	707.5	23095	21.79	23	0-1
				714.5	23165	21.87	23	0-1
				700.5	23025	21.70	23	0-1
		8 RB	4	707.5	23095	21.66	23	0-1
				714.5	23165	21.96	23	0-1
				700.5	23025	21.60	23	0-1
			7	707.5	23095	21.86	23	0-1
				714.5	23165	21.86	23	0-1
				700.5	23025	21.68	23	0-1
		15	RB	707.5	23095	21.95	23	0-1
3				714.5	23165	21.68	23	0-1
				700.5	23025	21.72	23	
			0	707.5	23095	21.94	23	
				714.5	23165	21.58	23	
			_	700.5	23025	21.16	23	+
		1 RB	7	707.5	23095	21.71	23	
				714.5	23165	21.93	23	
				700.5	23025	21.68	23	
			14	707.5	23095	22.02	23	ł
				714.5	23165	21.63	23	
	40.0444		_	700.5	23025	20.67	22	
	16-QAM		0	707.5	23095	20.91	22	+
				714.5	23165	20.82	22	
		0.00	,	700.5	23025	20.71	22	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1
		8 RB	4	707.5	23095	20.71	22	
				714.5	23165	21.06	22	
			7	700.5	23025	20.68	22	
			7	707.5	23095	20.78	22	1
				714.5	23165	20.80	22	
		4.5	DD	700.5	23025	20.72	22	
	15R	עט	707.5	23095	21.11	22	ł — — — — — — — — — — — — — — — — — — —	
				714.5	23165	21.20	22	0-2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 57 of 377

	FDD Band 12 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				699.7	23017	22.55	24	0				
			0	707.5	23095	22.81	24	0				
				715.3	23173	22.77	24	0				
				699.7	23017	22.62	24	0				
		1 RB	2	707.5	23095	22.80	24	0				
				715.3	23173	22.83	24	0				
				699.7	23017	22.79	24	0				
			5	707.5	23095	22.89	24	0				
				715.3	23173	22.76	24	0				
				699.7	23017	22.65	23	0-1				
	QPSK		0	707.5	23095	22.88	23	0-1				
				715.3	23173	22.84	23	0-1				
				699.7	23017	22.72	23	0-1				
		3 RB	2	707.5	23095	22.84	23	0-1				
				715.3	23173	22.78	23	0-1				
				699.7	23017	22.70	23	0-1				
			3	707.5	23095	22.85	23	0-1				
				715.3	23173	22.88	23	0-1				
				699.7	23017	21.72	23	0-1				
		6F	RB	707.5	23095	21.93	23	0-1				
1.4				715.3	23173	21.81	23	0-1				
				699.7	23017	21.43	23	0-1				
			0	707.5	23095	21.83	23					
				715.3	23173	21.88	23					
			_	699.7	23017	21.60	23					
		1 RB	2	707.5	23095	21.54	23					
				715.3	23173	22.04	23					
			_	699.7	23017	22.19	23					
			5	707.5	23095	21.65	23					
				715.3	23173	21.54	23					
	46.0444		_	699.7	23017	21.65	22					
	16-QAM		0	707.5	23095	21.78	22					
				715.3	23173	21.81	22					
		2 00	_	699.7	23017	21.57	22					
		3 RB	2	707.5	23095	21.88	22					
				715.3	23173	21.81	22					
			2	699.7	23017	21.73	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1				
			3	707.5	23095	21.74	22					
				715.3	23173	21.82	22					
		0.5	OD.	699.7	23017	20.55	22					
	6	61	\D	707.5	23095	20.79	22					
				715.3	23173	20.61	22	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 58 of 377

	FDD Band 12 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				704	23060	18.72	19.5	0				
			0	707.5	23095	18.71	19.5	0				
				711	23130	18.78	19.5	0				
				704	23060	18.78	19.5	0				
		1 RB	25	707.5	23095	18.90	19.5	0				
				711	23130	18.79	19.5	0				
				704	23060	18.96	19.5	0				
			49	707.5	23095	18.80	19.5	0				
				711	23130	18.94	19.5	0				
				704	23060	18.68	19.5	0-1				
	QPSK		0	707.5	23095	18.78	19.5	0-1				
				711	23130	18.86	19.5	0-1				
				704	23060	18.77	19.5	0-1				
		25 RB	12	707.5	23095	18.82	19.5	0-1				
				711	23130	18.69	19.5	0-1				
				704	23060	18.87	19.5	0-1				
			25	707.5	23095	18.86	19.5	0-1				
				711	23130	18.80	19.5	0-1				
				704	23060	18.77	19.5					
		50	RB	707.5	23095	18.85	19.5					
10			1	711	23130	18.94	19.5	0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1				
				704	23060	18.66	19.5					
			0	707.5	23095	18.87	19.5					
				711	23130	18.95	19.5					
				704	23060	18.35	19.5	+				
		1 RB	25	707.5	23095	18.64	19.5					
				711	23130	18.54	19.5					
			40	704	23060	18.66	19.5					
			49	707.5	23095	18.70	19.5					
				711	23130	18.57	19.5					
	16.0014		_	704	23060	18.59	19.5					
	16-QAM		0	707.5	23095	18.88	19.5	+				
				711	23130	18.91	19.5					
		OF DD	40	704	23060	18.78	19.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-				
		25 RB	12	707.5	23095	18.79	19.5	+				
				711	23130	18.82	19.5					
			25	704	23060	18.89	19.5	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-				
			25	707.5	23095	18.97	19.5					
				711	23130	18.88	19.5					
		FΛ	DD	704 707.5	23060	18.82	19.5					
	50R	ΝĎ	707.5	23095	18.78	19.5						
				711	23130	18.84	19.5	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 59 of 377

	FDD Band 12 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				701.5	23035	18.56	19.5	0				
			0	707.5	23095	18.58	19.5	0				
				713.5	23155	18.76	19.5	0				
				701.5	23035	18.69	19.5	0				
		1 RB	12	707.5	23095	18.80	19.5	0				
				713.5	23155	18.83	19.5	0				
				701.5	23035	18.93	19.5	0				
			24	707.5	23095	18.88	19.5	0				
				713.5	23155	18.82	19.5	0				
				701.5	23035	18.82	19.5	0-1				
	QPSK		0	707.5	23095	18.76	19.5	0-1				
				713.5	23155	18.91	19.5	0-1				
				701.5	23035	18.76	19.5	0-1				
		12 RB	6	707.5	23095	18.80	19.5	0-1				
				713.5	23155	18.91	19.5	0-1				
				701.5	23035	18.68	19.5	0-1				
			13	707.5	23095	18.88	19.5	0-1				
				713.5	23155	18.89	19.5	0-1				
				701.5	23035	18.69	19.5	0-1				
		25	RB	707.5	23095	18.88	19.5	0-1				
5				713.5	23155	18.82	19.5	0-1				
				701.5	23035	18.50	19.5	0-1				
			0	707.5	23095	18.47	19.5	0-1				
				713.5	23155	18.55	19.5	0-1				
				701.5	23035	18.42	19.5	0-1				
		1 RB	12	707.5	23095	18.67	19.5	0-1				
				713.5	23155	18.79	19.5	0-1				
				701.5	23035	18.47	19.5	0-1				
			24	707.5	23095	18.71	19.5	0-1				
				713.5	23155	18.59	19.5					
				701.5	23035	18.84	19.5					
	16-QAM		0	707.5	23095	18.88	19.5	+				
				713.5	23155	18.93	19.5	0-2				
				701.5	23035	18.86	19.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-				
		12 RB	6	707.5	23095	18.85	19.5					
				713.5	23155	18.88	19.5					
			4.5	701.5	23035	18.71	19.5					
			13	707.5	23095	18.88	19.5					
				713.5	23155	18.94	19.5					
				701.5	23035	18.64	19.5					
		25	RB	707.5	23095	18.83	19.5					
				713.5	23155	18.84	19.5	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be

prosecuted to the fullest extent of the law. SGS Taiwan Ltd.



Page: 60 of 377

	FDD Band 12 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				700.5	23025	18.62	19.5	0				
			0	707.5	23095	18.80	19.5	0				
				714.5	23165	18.80	19.5	0				
				700.5	23025	18.57	19.5	0				
		1 RB	7	707.5	23095	18.82	19.5	0				
				714.5	23165	18.85	19.5	0				
				700.5	23025	18.71	19.5	0				
			14	707.5	23095	18.80	19.5	0				
				714.5	23165	18.89	19.5	0				
				700.5	23025	18.67	19.5	0-1				
	QPSK		0	707.5	23095	18.85	19.5	0-1				
				714.5	23165	18.90	19.5	0-1				
				700.5	23025	18.76	19.5	0-1				
		8 RB	4	707.5	23095	18.85	19.5	0-1				
				714.5	23165	18.91	19.5	0-1				
				700.5	23025	18.71	19.5	0-1				
			7	707.5	23095	18.84	19.5	0-1				
				714.5	23165	18.90	19.5	0-1				
				700.5	23025	18.80	19.5	0-1				
		15	RB	707.5	23095	18.80	19.5	0-1				
3				714.5	23165	18.92	19.5	0-1				
				700.5	23025	18.78	19.5	0-1				
			0	707.5	23095	18.67	19.5					
				714.5	23165	18.82	19.5					
			_	700.5	23025	18.84	19.5	 				
		1 RB	7	707.5	23095	18.78	19.5					
				714.5	23165	18.92	19.5					
				700.5	23025	18.90	19.5					
			14	707.5	23095	18.67	19.5					
				714.5	23165	18.66	19.5					
	40.0414			700.5	23025	18.75	19.5					
	16-QAM		0	707.5	23095	18.92	19.5					
				714.5	23165	18.95	19.5					
		0 00	4	700.5	23025	18.89	19.5					
		8 RB	4	707.5	23095	18.90	19.5					
				714.5	23165	18.91	19.5					
			7	700.5	23025	18.69	19.5	1				
			7	707.5	23095	18.90	19.5	0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-				
				714.5	23165	18.91	19.5	-				
		4.5	DD	700.5	23025	18.63	19.5					
		15	RB	707.5	23095	18.80	19.5					
				714.5	23165	18.90	19.5	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 61 of 377

	FDD Band 12 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				699.7	23017	18.59	19.5	0				
			0	707.5	23095	18.74	19.5	Allowed per 3GPP(dB)				
				715.3	23173	18.76	19.5	0				
				699.7	23017	18.78	19.5	0				
		1 RB	2	707.5	23095	18.85	19.5	0				
				699.7 23017 18.78 19.5	0							
				699.7	23017	18.66	19.5	0				
			5	707.5	23095	18.88	19.5	0				
				715.3	23173	18.95	19.5	0				
				699.7	23017	18.68	19.5	0-1				
	QPSK		0	707.5	23095	18.85	19.5	0-1				
				715.3	23173	18.86	19.5	0-1				
				699.7	23017	18.71	19.5	0-1				
		3 RB	2	707.5		18.80	19.5	0-1				
				715.3	23173	18.79	Note of the color of the colo					
				699.7	23017	18.69	19.5	Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O				
			3	707.5	23095	18.83	19.5					
				715.3	23173	18.87	19.5	0-1				
				699.7	23017	18.67	19.5	0-1				
		6F	RB	707.5	23095	18.90	19.5	0-1				
1.4				715.3	23173	18.75	19.5	0-1				
			0									
								0-1				
				715.3	23173	23173 18.87 19.5 0- 23017 18.67 19.5 0- 23095 18.90 19.5 0- 23173 18.75 19.5 0- 23017 18.57 19.5 0- 23095 18.62 19.5 0- 23173 18.60 19.5 0- 23017 18.83 19.5 0- 23095 18.81 19.5 0-	0-1					
				699.7	23017		0-1					
		1 RB	2									
					23173	18.60						
					23017							
			5		23095							
					23173							
			_		23017							
	16-QAM		0		23095							
				715.3	23173	18.83						
		0.55		707.5 715.3 699.7 707.5 715.3 699.7 707.5 715.3 699.7 707.5 715.3 699.7 707.5 715.3 699.7 707.5 715.3 699.7 707.5 715.3 699.7 707.5 715.3	23017	18.64						
	3 R	3 RB	2		23095							
					23173	1						
			_		23017							
			3		23095							
					23173							
			.		23017							
		61	₹B		23095							
				715.3	23173	18.67	19.5	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 62 of 377

	FDD Band 13 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
		4.00	0	782	23230	22.60	24	0				
		1 RB	25	782	23230	22.73	24	0				
			49	782	23230	22.98	24	0				
	QPSK	SK 25 RB	0	782	23230	21.79	23	0-1				
			12	782	23230	21.88	23	0-1				
			25	782	23230	21.82	23	0-1				
10		50	RB	782	23230	21.79	23	0-1				
10			0	782	23230	22.03	23	0-1				
			1 RB	25	782	23230	21.93	23	0-1			
			49	782	23230	21.73	23	0-1				
	16-QAM		0	782	23230	20.83	22	0-2				
		25 RB	12	782	23230	20.87	22	0-2				
			25	782	23230	20.81	22	0-2				
		50	RB	782	23230	20.82	22	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 63 of 377

	FDD Band 13 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				779.5	23205	22.66	24	0				
			0	782	23230	22.70	24	0				
				784.5	23255	22.75	24	0				
				779.5	23205	22.75	24	0				
		1 RB	12	782	23230	22.64	24	0				
				784.5	23255	22.80	24	0				
				779.5	23205	22.58	24	0				
			24	782	23230	22.60	24	0				
				784.5	23255	22.70	24	0				
				779.5	23205	21.74	23	0-1				
	QPSK		0	782	23230	21.77	23	0-1				
				784.5	23255	21.70	23	0-1				
				779.5	23205	21.75	23	0-1				
		12 RB	6	782	23230	21.74	23	0-1				
				Frequency (MHz) Channel Conducted power (dBm) Max. Tolerance (dBm) Target power (dBm) Target power (dBm) Max. Tolerance (dBm) Tolerance (dBm								
				779.5	23205	21.76	23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1 23 0-1					
			13	782	23230	21.87	23	0-1				
				784.5	23255	21.66	23	0-1				
				779.5	23205	21.69	23	0-1				
		25	RB	782	23230	21.70	23	0-1				
5				784.5	23255	21.69	23	0-1				
Ŭ			0	779.5	23205	21.31	23	0-1				
				782	23230	21.88	23	0-1				
				784.5	23230 21.88 23	23	0-1					
				779.5	23205	21.82	23	0-1				
		1 RB	12	782	23230	21.47	23	0-1				
				784.5	23255	21.48	23	0-1				
				779.5	23205	21.38	23	0-1				
			24					0-1				
				784.5	23255	21.60		0-1				
	16-QAM		0	782			22	0-2				
				782 23230 784.5 23255 779.5 23205 782 23230 784.5 23255 779.5 23205 784.5 23255 779.5 23205 784.5 23255 779.5 23205 784.5 23255 779.5 23205 782 23230 784.5 23255 779.5 23205 782 23230 784.5 23255 779.5 23205 782 23230 784.5 23255 779.5 23205 782 23230 784.5 23255 779.5 23205 782 23230 784.5 23255 779.5 23205 784.5 23255 779.5 23205 784.5 23255 779.5 23205 784.5 <td< td=""><td></td><td></td><td></td><td></td></td<>								
		12 RB	6	12 779.5 23205 21.82 23 782 23230 21.47 23 784.5 23255 21.48 23 24 782 23205 21.38 23 784.5 23255 21.60 23 784.5 23255 21.60 23 779.5 23205 20.64 22 784.5 23255 20.75 22 784.5 23255 20.75 22 779.5 23205 20.80 22 784.5 23230 20.77 22 784.5 23255 20.71 22 779.5 23205 20.83 22 13 782 23230 20.63 22								
			13									
								0-2				
								0-2				
		25	RB	782	23230	20.74	22	0-2				
				784.5	23255	20.76	22	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 64 of 377

			FDD Bar	nd 13 (Reduce	d Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
			0	782	23230	18.84	19	0
		1 RB	25	782	23230	18.85	19	0
			49	782	23230	18.88	35 19 0 38 19 0 39 19 0-1 92 19 0-1	0
	QPSK		0	782	23230	18.89	19	0-1
		25 RB	12	782	23230	18.92	19	0-1
			25	782	23230	18.82	19	0-1
10		50	RB	782	23230	18.91	19	0-1
10			0	782	23230	18.63	19	0-1
		1 RB	25	782	23230	18.65	19	0-1
			49	782	23230	18.66	19	0-1
	16-QAM		0	782	23230	18.78	19	0-2
r		25 RB	12	782	23230	18.78	19	0-2
			25	782	23230	18.81	19	0-2
		50	RB	782	23230	18.76	19	0-2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488



Page: 65 of 377

	FDD Band 13 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				779.5	23205	18.68	19	0				
			0	782	23230	18.70	19	0				
				784.5	23255	18.70	19	0				
				779.5	23205	18.71	19	0				
		1 RB	12	782	23230	18.69	19	0				
				784.5	23255	18.66	19	0				
				779.5	23205	23205 18.71 19 23230 18.69 19 23255 18.66 19 23205 18.76 19 23230 18.71 19 23255 18.70 19 23205 18.76 19 23230 18.77 19 23255 18.68 19 23205 18.74 19 23230 18.75 19 23255 18.71 19 23205 18.76 19 23230 18.76 19 23255 18.74 19 23205 18.70 19 23230 18.75 19 23230 18.75 19 23230 18.75 19 23230 18.66 19 23230 18.65 19 23230 18.67 19 23255 18.63 19	0					
			24	782	23230	18.71	19	0				
				784.5	23255	18.70	19	0				
				779.5	23205	18.76	19	0-1				
	QPSK		0	782	23230	18.77	19	0-1				
				784.5	23255	18.68	19	0-1				
				779.5	23205	18.74	19	0-1				
		12 RB	6	782	23230		19	0-1				
				784.5	23255	Channel Channel Conducted power (dBm) 23205						
				779.5	23205	18.76	8.71 19 0-1 8.76 19 0-1 8.76 19 0-1 8.74 19 0-1 8.70 19 0-1	0-1				
			13	782	23230	18.76		0-1				
				784.5	23255	18.74	19	0-1				
				779.5	23205	18.70	19	0-1				
		25	RB	782	23230	18.75	19	0-1				
5				784.5	23255	18.66	19	0-1				
			0	779.5	23205							
					23230		19	0-1				
				784.5	784.5 23255 18.74 19 779.5 23205 18.70 19 782 23230 18.75 19 784.5 23255 18.66 19 779.5 23205 18.65 19 782 23230 18.67 19 784.5 23255 18.63 19 779.5 23205 18.64 19	0-1						
				779.5	23205	23255 18.74 19 0 23205 18.70 19 0 23230 18.75 19 0 23255 18.66 19 0 23205 18.65 19 0 23230 18.67 19 0 23255 18.63 19 0 23205 18.64 19 0 23230 18.61 19 0 23255 18.61 19 0	0-1					
		1 RB	12	782	23230	18.61	19	0-1				
							19	0-1				
					23205			0-1				
			24		23230							
	16-QAM		0	24 782 23230 18.71 19 784.5 23255 18.70 19 779.5 23205 18.76 19 779.5 23205 18.76 19 784.5 23255 18.68 19 779.5 23205 18.74 19 784.5 23255 18.74 19 784.5 23255 18.71 19 779.5 23205 18.76 19 784.5 23255 18.74 19 784.5 23255 18.76 19 784.5 23255 18.76 19 784.5 23255 18.74 19 779.5 23205 18.70 19 782 23230 18.75 19 784.5 23255 18.66 19 779.5 23205 18.65 19 779.5 23205 18.67 19 784.5 23255 18.61								
		12 RB	6									
			13									
		25	RB					0-2				
				784.5	23255	18.76	19	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 66 of 377

	FDD Band 17 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				709	23780	22.86	24	0				
			0	710	23790	22.96	24	0				
				711	23800	22.99	24	0				
				709	23780	22.74	24	0				
		1 RB	25	710	23790	Conducted power (dBm) Real Co	24	0				
				711	710 23790 22.96 24 711 23800 22.99 24 709 23780 22.74 24 710 23790 22.89 24 711 23800 22.88 24 709 23780 23.04 24 710 23790 23.08 24 711 23800 22.97 24 709 23780 21.91 23 710 23790 21.97 23 711 23800 21.95 23 709 23780 22.02 23 710 23790 21.99 23 711 23800 22.02 23 709 23780 22.02 23 711 23800 22.07 23 711 23800 22.07 23 711 23800 22.06 23 710 23790 21.98 23 711	0						
				709	23780	23.04	22.88 24 0 23.04 24 0 23.08 24 0 22.97 24 0 21.91 23 0-1 21.97 23 0-1 21.95 23 0-1 22.02 23 0-1 21.99 23 0-1 22.02 23 0-1 22.02 23 0-1 22.07 23 0-1	0				
			49	710	23790	23.08	24	0				
				711	23800	22.97	24	0				
				709	23780	21.91	23	0-1				
	QPSK		0	710	23790	21.97	23	0-1				
				711	23800	21.95	23	0-1				
				709	23780	22.02	23	0-1				
		25 RB	12	710	23790	21.99	23	0-1				
				711	23800	Conducted power (dBm) Power + Max. Tolerance (dBm) Tolerance						
				709	23780	22.08	23	r + MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
			25	710	23790	22.07	23	0-1				
				711	23800	22.06	23	0-1				
				709	23780	22.00	23	0-1				
		50	RB	710	23790	21.98	23	0-1				
10				711	23800	22.07	23	0-1				
			0	709								
					23790	21.63	23	0-1				
				711		23	0-1					
				709	23780	21.77	23	0-1				
		1 RB	25		23790							
					23800							
			,_									
			49	710 23790 21.63 711 23800 22.13 709 23780 21.77 710 23790 21.48 711 23800 22.22 709 23780 21.83 710 23790 21.89								
						 						
	16-QAM		0									
				709 23780 23.04 2 710 23790 23.08 2 711 23800 22.97 2 709 23780 21.91 2 710 23790 21.97 2 709 23780 22.02 2 710 23790 21.99 2 710 23790 21.99 2 711 23800 22.02 2 709 23780 22.08 2 710 23790 22.07 2 711 23800 22.06 2 709 23780 22.06 2 710 23790 21.98 2 711 23800 22.07 2 709 23780 21.68 2 711 23800 22.07 2 709 23780 21.48 2 711 23800 22.13 2 709 23780 </td <td></td> <td></td>								
		25 RB	12									
			25			•						
		50	RB		23790							
				711	23800	20.96	22	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 67 of 377

	FDD Band 17 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				706.5	23755	23.00	24	0				
			0	710	23790	22.82	24	0				
				713.5	23825	22.94	24	0				
				706.5	23755	22.80	24	0				
		1 RB	12	710	23790	22.77	24	0				
				713.5	23825	22.77	24	0				
				706.5	23755	Conducted power (dBm) Power + Max. Tolerance (dBm) MPF Allowed 3GPP(deBm) 7755 23.00 24 0 7890 22.82 24 0 825 22.94 24 0 7755 22.80 24 0 7890 22.77 24 0 825 22.77 24 0 7855 22.75 24 0 7890 22.79 24 0 825 22.92 24 0 7855 21.71 23 0-1 790 21.79 23 0-1 790 21.79 23 0-1 790 21.84 23 0-1 790 21.84 23 0-1 825 21.84 23 0-1 790 21.84 23 0-1 790 21.84 23 0-1 790 21.81 23 0-1 790 <	0					
			24	710	23790	22.79	24	0				
				713.5	23825	22.92	24	0				
				706.5	23755	21.71	23	0-1				
	QPSK		0	710	23790	21.79	23	0-1				
				713.5	23825	21.85	23	0-1				
				706.5	23755	21.94	23	0-1				
		12 RB	6	710	23790	21.84	23	0-1				
				713.5	23825	Conducted power (dBm)						
				706.5	23755	21.84	23	24 0 24 0 23 0-1				
			13	710	23790	21.84	21.84 23 21.84 23 21.71 23 21.48 23	0-1				
				713.5	23825	21.71	23	0-1				
				706.5	23755	21.48	23	0-1				
		25RB		710	23790	21.81	23	0-1				
5				713.5			_	0-1				
			0	706.5								
					5 23825 21.91 23 5 23755 21.58 23 0 23790 21.85 23 5 23825 21.76 23							
				-								
		1 RB	12									
			.					-				
			24									
	46.0444		_									
	16-QAM		0	Tiset (MHz) Total Power (dBm) Total Power (dam) Total Power (dBm) Total Power (dam) Total Power (dam)								
		10 00	_									
		12 RB	6									
			40			•						
			13	-		•						
						•						
		0.5	DD									
		25	RB			1						
				/13.5	23825	20.82	22	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 68 of 377

	FDD Band 17 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				709	23780	18.66	19	0				
			0	710	23790	18.71	19	0				
				711	23800	18.76	Acted (dBm) Power + Max. Tolerance (dBm) MPR Allowed per 3GPP(dB) 366 19 0 71 19 0 76 19 0 79 19 0 87 19 0 87 19 0 87 19 0 87 19 0 87 19 0 87 19 0 87 19 0 89 19 0-1 80 19 0-1 81 19 0-1 83 19 0-1 84 19 0-1 85 19 0-1 86 19 0-1 87 19 0-1 88 19 0-1 89 19 0-1 89 19 0-1 89 19 0-1 88 19 0-1					
				709	23780	Conducted power (dBm) Power + Max. Tolerance (dBm) All 30 max. Tolerance (dBm) 18.66 19 18.71 19 18.76 19 18.79 19 18.78 19 18.87 19 18.87 19 18.87 19 18.87 19 18.79 19 18.79 19 18.78 19 18.80 19 18.81 19 18.84 19 18.85 19 18.80 19 18.81 19 18.82 19 18.63 19 18.63 19 18.85 19 18.82 19 18.83 19 18.84 19 18.85 19 18.86 19 18.87 19 18.88 19 18.89 19 18.81	0					
		1 RB	25	710	23790	18.78	Conducted ower (dBm) Power + Max. Tolerance (dBm) MPF Allowed 3GPP(dBm) 18.66 19 0 18.71 19 0 18.76 19 0 18.79 19 0 18.79 19 0 18.87 19 0 18.87 19 0 18.87 19 0 18.87 19 0 18.87 19 0 18.89 19 0-1 18.79 19 0-1 18.79 19 0-1 18.79 19 0-1 18.80 19 0-1 18.81 19 0-1 18.82 19 0-1 18.83 19 0-1 18.85 19 0-1 18.63 19 0-1 18.63 19 0-1 18.63 19 0-1 18.63 19 0-1	0				
				711	23800	18.87	19	0				
				709	23780	18.92	18.78 19 0 18.87 19 0 18.92 19 0 18.95 19 0 18.79 19 0-1 18.79 19 0-1 18.80 19 0-1 18.78 19 0-1 18.79 19 0-1 18.80 19 0-1 18.81 19 0-1 18.81 19 0-1 18.80 19 0-1 18.81 19 0-1 18.79 19 0-1 18.79 19 0-1					
			49	710	23790		19	0				
				711	23800	18.95	19	0				
				709	23780	18.79	19	0-1				
	QPSK		0	710	23790	18.79		0-1				
				711	23800	18.80	19	0-1				
				709	23780	18.78	19	0-1				
		25 RB	12	710	23790			0-1				
				711	23800		19 0 19 0 19 0 19 0 19 0 19 0-1					
				709	23780			Allowed per 3GPP(dB) O O O O O O O O O O O O O O O O O O				
			25	710	23790			0-1				
				711	23800		19 19 19 19 19 19 19 19 19 19 19 19 19 1					
				709	23780							
		50	RB	710	23790							
10			•	711	23800							
			0	709	23780							
				710								
				711	23790 18.59 19 23800 18.63 19							
				709	23780	•		-				
		1 RB	25	710	23790							
				711	23800							
			40	709	23780							
			49	710	23790							
				711	23800							
	16 0 4 14		_	709	23780	 						
	16-QAM		0	710	23790							
				711	23800							
		25 RB	12	709	23780							
		20 KD	12	710	23790							
				711	23800							
			25	709 710	23780 23790							
			25	710								
				709	23800							
		50	RB	709	23780							
		30	ועט	710	23790 23800							
				111	23000	10.00	19	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 69 of 377

	FDD Band 17 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				706.5	23755	18.77	19	0				
			0	710	23790	18.77	19	er + Allowed per ance ance ance ance ance ance ance ance				
				713.5	23825	Channel Conducted power (dBm) Target Power + Max. Tolerance (dBm) MPR Allowed (dBm) 23755 18.77 19 0 23790 18.77 19 0 23825 18.81 19 0 23755 18.78 19 0 23790 18.76 19 0 23755 18.88 19 0 23755 18.88 19 0 23790 18.85 19 0 23790 18.85 19 0 23790 18.85 19 0 23755 18.74 19 0-1 23790 18.86 19 0-1 23790 18.86 19 0-1 23755 18.76 19 0-1 23790 18.81 19 0-1 23755 18.86 19 0-1 23790 18.81 19 0-1 23755 18.84 19 0-1<	0					
				(MHz) power (c) 706.5 23755 18.7 710 23790 18.7 713.5 23825 18.8 706.5 23755 18.7 710 23790 18.7 713.5 23825 18.8 706.5 23755 18.8 710 23790 18.8 706.5 23755 18.7 710 23790 18.8 706.5 23755 18.7 710 23790 18.8 706.5 23755 18.7 710 23790 18.8 706.5 23755 18.8 706.5 23755 18.8 706.5 23755 18.8 706.5 23755 18.8 706.5 23755 18.8 706.5 23755 18.8 706.5 23755 18.8 706.5 23755 18.8 706.5 23755 18.8 </td <td>18.78</td> <td>19</td> <td>0</td>	18.78	19	0					
		1 RB	12	710	23790	18.76	19	0				
				713.5	23825	18.85	19	0				
				706.5	706.5 23755 18.78 710 23790 18.76 713.5 23825 18.85 706.5 23755 18.88 710 23790 18.85 713.5 23825 18.87 706.5 23755 18.74 710 23790 18.86 713.5 23825 18.76 710 23790 18.81 713.5 23825 18.89 706.5 23755 18.86 710 23790 18.92 713.5 23825 18.84 706.5 23755 18.79 710 23790 18.83 713.5 23825 18.88 706.5 23755 18.79 710 23790 18.83 713.5 23825 18.88 706.5 23755 18.66 710 23790 18.69 713.5 23825 18.78	19	0					
			24	Frequency (MHz) Channel (MHz) Conducted power (dBm) Target Max. Tolerance (dBm) Max. Toleranc		0						
				713.5	23825	18.87	19	0				
				706.5	23755	18.74	19	0-1				
	QPSK		0	710	23790	18.86	19	0-1				
				713.5	23825	18.84	19	0-1				
				706.5	23755	18.76	19	0-1				
		12 RB	6	710	23790	18.81	19	0-1				
				713.5	23825	el Conducted power (dBm) Power + Max. Tolerance (dBm) MPR Allowed per 3GPP(dB) 5 18.77 19 0 6 18.77 19 0 6 18.81 19 0 6 18.78 19 0 6 18.76 19 0 6 18.85 19 0 6 18.85 19 0 6 18.85 19 0 6 18.85 19 0 6 18.85 19 0 6 18.87 19 0 6 18.86 19 0-1 6 18.86 19 0-1 7 18.89 19 0-1 8 18.84 19 0-1 9 18.89 19 0-1 18.89 19 0-1 18.89 19 0-1 18.83 19 19 0-1 <						
				706.5	23755	18.86	19	19 0 19 0 19 0-1 19 0-1				
			13			18.92	19	0-1				
				713.5	23825	18.84	19	0-1				
					23755	18.79		0-1				
		25	RB	710	23790	18.83	19	0-1				
5				713.5	23825	18.88	19	0-1				
			0		23755	18.66						
				710	23790	18.69	19	0-1				
					5 23755 18.66 19 23790 18.69 19 5 23825 18.78 19		0-1					
		1 RB	12			18.71	19	0-1				
						18.74		0-1				
			24									
	16-QAM		0									
						1						
	1	12 RB	6									
				710 23790 18.83 19 713.5 23825 18.88 19 706.5 23755 18.66 19 710 23790 18.69 19 713.5 23825 18.78 19 706.5 23755 18.73 19 710 23790 18.71 19 713.5 23825 18.74 19 706.5 23755 18.74 19 710 23790 18.69 19 713.5 23825 18.77 19 706.5 23755 18.82 19 710 23790 18.86 19 713.5 23825 18.87 19 706.5 23755 18.83 19 710 23790 18.86 19 713.5 23825 18.90 19 706.5 23755 18.90 19 706.5 23755 18.90 19								
			13									
						†						
				706.5	23755	†						
		25	RB	710	23790	1						
				713.5	23825	18.92	19	0-2				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 70 of 377

CDMA conducted power table (Full power):

			Target			1xRTT		EVDO		
Band	Channel	Frequency (MHz)	iviax.	SO55	SO55	TDSO/SO32	TDSO/SO32	1x EvDO Rev. 0, FTAP/RTAP	1x EvDO Rev. A, FETAP/RETAP	
			Toleranc e (dBm)	RC1	RC3	FCH+SCH	FCH	Subtype 0/1	Subtype 2	
ODMA	1013	824.7	25.00	23.71	23.73	23.77	23.74	23.82	23.77	
CDMA (BC0)	384	836.52	25.00	24.07	24.05	24.00	24.05	24.11	24.02	
(500)	777	848.31	25.00	24.01	24.00	23.99	23.96	24.05	24.01	
00144	25	1851.25	25.00	24.31	24.37	24.29	24.21	24.41	24.32	
CDMA (BC1)	600	1880	25.00	24.19	24.21	24.17	24.15	24.22	24.16	
(501)	1175	1908.75	25.00	24.27	24.27	24.25	24.22	24.29	24.21	

CDMA conducted power table (Reduced power):

			Target			1xRTT	EVDO				
Band	Band Channel Frequency (MHz)		Frequency (MHz)	Linannell ' '	Power + Max. Toleranc	SO55	SO55	TDSO/SO32	TDSO/SO32	1x EvDO Rev. 0, FTAP/RTAP	1x EvDO Rev. A, FETAP/RETAP
			e (dBm)	RC1	RC3	FCH+SCH	FCH	Subtype 0/1	Subtype 2		
00144	1013	824.7	20.50	19.66	19.63	19.66	19.71	19.75	19.71		
CDMA (BC0)	384	836.52	20.50	19.72	19.77	19.81	19.89	20.00	19.97		
(500)	777	848.31	20.50	19.84	19.85	19.81	19.84	19.98	19.95		
ODMA	25	1851.25	18.00	17.78	17.85	17.84	17.85	17.99	17.91		
CDMA (BC1)	600	1880	18.00	17.25	17.32	17.36	17.27	17.38	17.31		
(501)	1175	1908.75	18.00	16.96	17.02	17.00	16.99	17.05	16.98		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 71 of 377

1.4 Test Environment

Ambient Temperature: 22±2° C Tissue Simulating Liquid: 22±2° C

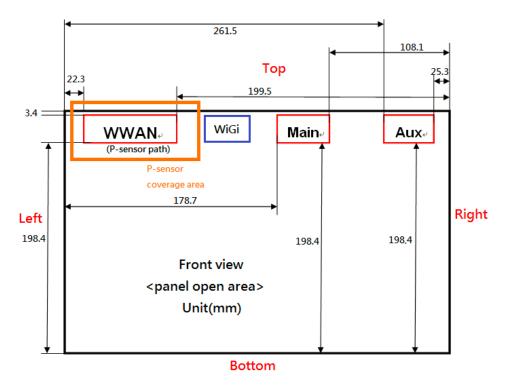
1.5 Operation Description

1. WWAN (GPRS/EDGE/WCDMA/HSDPA/HSPA/CDMA 1xRTT/CDMA EVDO rev.0 & rev.A/LTE):

The EUT is controlled by using Radio Communication Tester(R&S CMU200 and Anritsu MT8820C), and the communication between the EUT and the tester is established by air link.

Configuration 1: back/top side_0mm with power reduction and _10mm without power reduction

Configuration 2: right/left sides_0mm without power reduction



Antenna position plot(Front view)

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 72 of 377

2. WLAN and WiGig

For WLAN and WiGig part, since the RF hardware/software of FCC ID: B94HNI72CAM is the same with that of FCC ID: PD918260NG, so the WLAN and WiGig data is refer to the WLAN SAR report and WiGig MPE report of FCC ID: PD918260NG after verifying the worst cases of the WLAN SAR report.

Note:

- 1. SAR test for GPRS was performed on the maximum sourced-based time-averaged power.
- 2. SAR measurement is not required for HSDPA/HSPA since its maximum output power is less than 1/4 dB higher than RMC without HSDPA/HSPA
- 3. Body SAR was measured using Subtype 0/1 Physical Layer configurations for Rev. 0. The 3G SAR test reduction procedure is applied to Rev. A, Subtype 2 Physical layer configuration, with Rev. 0 as the primary mode.
- 4. For this Ev-Do data device that also support 1x RTT data operations, the 3G SAR test reduction procedure is applied to 1x RTT RC3 and RC1 with Ev-Do Rev. 0, Rev. A as the respective primary modes. (Since SAR is not required for Ev-Do Rev. A, only Rev. 0 need consideration as the primary mode.)
- 5. LTE modes test according to FCC KDB 941225 D05v02r04.
 - (1) Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.
 - Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
 - When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.
 - (2) Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation
 - The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

> t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com



Page: 73 of 377

(3) Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation

- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg.
- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- (4) Per Section 5.2.4, Higher order modulations
 - For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.
- (5) Per Section 5.3, other channel bandwidth standalone SAR test requirements
 - For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/ka.
 - The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.
- 6. Based on KDB447498D01, WWAN SAR measurement for bottom side is not required.
 - (1) SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances≤ 50 mm are determined by:

$$\frac{\text{Max. tune up power(mW)}}{\text{Min. test separation distance(mm)}} \times \sqrt{f(GHz)} \le 3$$

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 74 of 377

When the minimum test separation distance is < 5mm, 5mm is applied to determine SAR test exclusion.

- (2) For test separation distances > 50 mm, and the frequency at 100 MHz to 1500MHz, the SAR test exclusion threshold is determined according to the following, and as illustrated in Appendix B of KDB447498 D01. [(Threshold at 50mm in step1) + (test separation distance-50mm) $x(\frac{f(MHz)}{120})](mW),$
- (3) For test separation distances > 50 mm, and the frequency at >1500MHz to 6GHz, the SAR test exclusion threshold is determined according to the following, and as illustrated in Appendix B of KDB447498 D01.
- 7. According to KDB447498 D01, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is \leq 0.8 W/kg, when the transmission band is ≤ 100 MHz.
- 8. According to KDB865664 D01, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

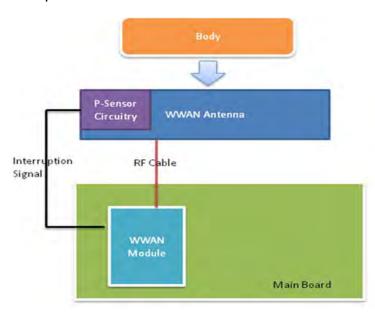
SGS Taiwan Ltd.



Page: 75 of 377

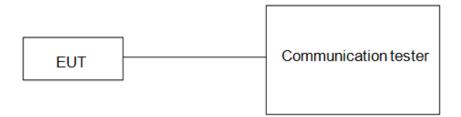
1.6 Proximity sensor operation description

The P-sensor being used to reduce output power is capacitive in which when the object such as human body, metal or plastic is being approached, the sensing capacitance would be increased with the antenna pad. Once the capacitance is accumulated, and reached over the threshold as set in MCU of the microchip, the interruption signal is pulled low (High state without trigger) and further inform modem module of the transmitter to make power reduction.



1.6.1 Proximity sensor measurement procedure

- The proximity sensor is collocated with WWAN antenna.
- Output power is measured, and monitored by using the communication tester. A RF cables with sufficient length was being attached from the antenna port of the module, and used for the measurement. The appropriate loss attenuated from cable is compensated in the communication tester.



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

SGS Taiwan Ltd.



Page: 76 of 377

1.6.2 Trigger distances for back/top side

Test procedure:

- 1. The entire back surface or edge of the tablet is positioned below a flat phantom filled with the required tissue equivalent medium and positioned at least 20 mm further than the distance that triggers power reduction.
- 2. The back surface or edge is moved toward the phantom in 3 mm steps until the sensor triggers.
- The back surface or edge is then moved back (further away) from the phantom until maximum output power is returned to the normal maximum level.
- 4. The back surface or edge is again moved toward the phantom, but in 1 mm steps, until it is at least 5 mm past the triggering point or touching the phantom
- If the tablet is not touching the phantom, it is moved in 3 mm steps until it touches the phantom to confirm that the sensor remains triggered and the maximum power stays reduced.
- The process is then reversed by moving the tablet away from the phantom to determine triggering release, until it is at least 10 mm beyond the point that triggers the return of normal maximum power.
- The measured output power within \pm 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom should be tabulated.
- 8. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.
- 9. For back side, the trigger distance of proximity sensor is 11mm.
- 10. For top side, the trigger distance of proximity sensor is 12mm, and we perform the 1.6.3 tilt angle testing in next step.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

> t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sas.com

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

SGS Taiwan Ltd.



Page: 77 of 377

1.6.3 Tilt angle testing

Test procedure:

- 1. The influence of table tilt angles to proximity sensor triggering is determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at the smallest sensor triggering test distance determined in sections 1.6.2 by rotating the tablet around the edge next to the phantom in ≤ 10 deg increments until the tablet is +/- 45deg or more from the vertical position at 0 deg.
- If sensor triggering is released and normal maximum output power is restored within the +/- 45deg range, the procedures in step 1) should be repeated by reducing the tablet to phantom separation distance by 1 mm until the proximity sensor no longer releases triggering, and maximum output power remains in the reduced mode.
- 3. The smallest separation distance determined in steps 1) and 2), minus 1 mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance determined in sections 1.6.2, 1.6.3 minus 1 mm should be used in the SAR measurements.
- 4. The influence of tablet tilt angles to proximity sensor triggering is determined by positioning top and right sides, please refer to table 1.6.5 and 1.6.6.
- 5. After the tilt angle testing for top side, the sensor is not released during +/-45deg, so 12-1=11mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance minus 1 mm(11-1=10mm) should be used in the SAR measurements.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

www.tw.sas.com



Page: 78 of 377

1.6.4 Proximity sensor coverage

The following procedures do not apply and are not required for configurations where the antenna and sensor are collocated and the peak SAR location is overlapping with the sensor.

Test procedure:

- The back surface or edges of the tablet is positioned at a test separation distance less than or equal to the distance required for back surface or edge triggering, with both the antenna and sensor pad located at least 20 mm laterally outside the edge (boundary) of the phantom, along the direction of maximum antenna and sensor offset.
- 2. The similar sequence of steps applied to determine sensor triggering distance in section 1.6.2 are used to verify back surface and edge sensor coverage by moving the tablet (sensor and antenna) horizontally toward the phantom while maintaining the same vertical separation between the back surface or edge and the phantom.
- 3. After the exact location where triggering of power reduction is determined, with respect to the sensor and antenna, the tablet movement should be continued, in 3 mm increments, until both the sensor and antenna(s) are fully under the phantom and at least 20 mm inside the phantom edge.
- The process is then repeated from the other direction, at the opposite end of maximum antenna and sensor offset, by rotating the tablet 180 degrees.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

www.tw.sas.com



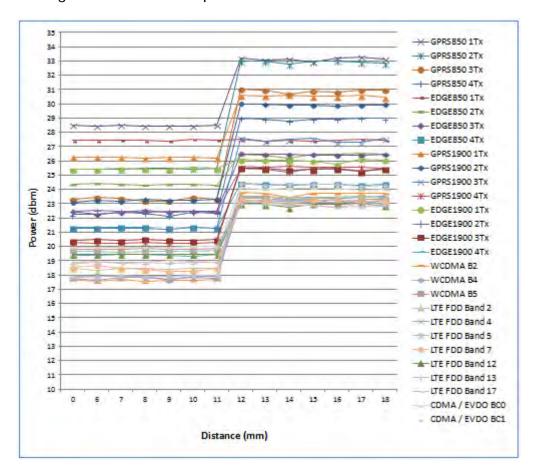
Page: 79 of 377

1.6.5 Results

The measured output power within \pm 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom is tabulated in the following.

Back side

Moving device toward the phantom



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

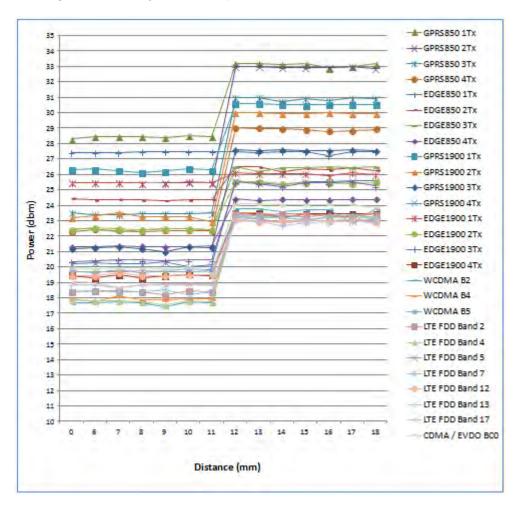
documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 80 of 377

Moving device away from the phantom



For back side, the worst trigger distance of proximity sensor is 11mm, thus we test back side SAR in 10mm without power reduction and 0mm with power reduction.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

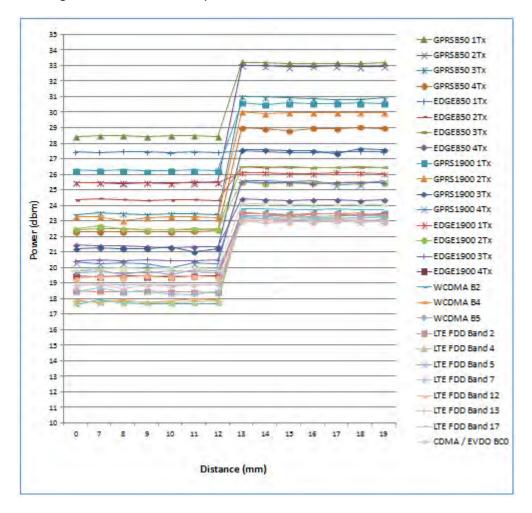
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 81 of 377

Top side

Moving device toward the phantom



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_end_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be

f (886-2) 2298-0488

prosecuted to the fullest extent of the law.



Page: 82 of 377

Moving device away from the phantom

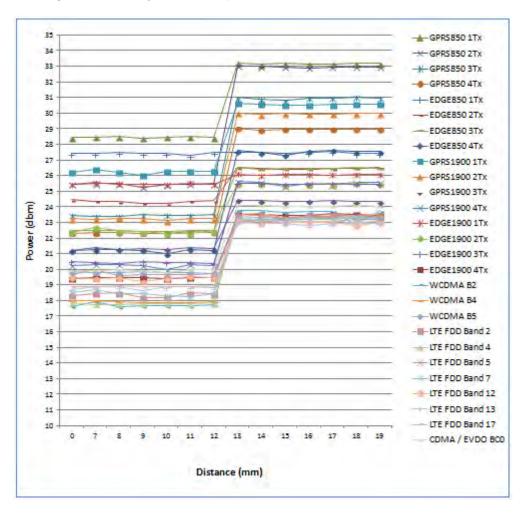


Table 1.6.5 Tilt angle test results for top side

P-sensor	-50	-45	-40	-30	-20	-10	0	10	20	30	40	45	50
ON/OFF	deg												
12mm	ON												

During the tilt angle testing for top side, the sensor is not released in 12mm, so 12-1=11mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance minus 1 mm(11-1=10mm) should be used in the SAR measurements for top side.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279

www.tw.sas.com



Page: 83 of 377

Note:

- 1. The triggering variations and hysteresis effect has been evaluated separately according to the tissue-equivalent medium required for each frequency band, and sensor triggering does not change with different tissue-equivalent media.
- 2. The default power level for sensor failure and malfunctioning, including all compliance concerns, has been addressed in the client's operation description (1.6.6) for the proximity sensor implementation to be acceptable.
- 3. Conducted power is monitored qualitatively to identify the general triggering characteristics and recorded quantitatively, versus spacing.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 84 of 377

1.6.6 Operation description for P-sensor

Power Reduction Design Specification (for P-sensor)

The mechanism of power reduction is used only for WWAN, not for Wi-Fi and Bluetooth. The reduced power for each technology/band is defined in Table1-1. With P-sensor mechanism, the GPRS/WCDMA/CDMA/LTE default power when P-sensor failure or malfunction are show in Table1-2 as below.

Table1-1: The power reduction scenario table

Band	Power Reduction
GPRS850	YES
EDGE850	YES
GPRS1900	YES
EDGE1900	YES
WCDMA B2	YES
WCDMA B4	YES
WCDMA B5	YES
CDMA BC0	YES
CDMA BC1	YES
LTE B2/4/5/7/12/13/17	YES
WLAN	NO
ВТ	NO

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279

www.tw.sas.com



Page: 85 of 377

Table1-2: The default maximum power when p-sensor failure or malfunction

Technology / Band	Mode	Default Maximum Power (dBm)		
	Class 8	28.5		
GPRS 850	Class 10	25.5		
GFK3 650	Class 11	23.5		
	Class 12	22.5		
	Class 8	27.5		
EDGE 850	Class 10	24.5		
EDGE 830	Class 11	22.5		
	Class 12	21.5		
	Class 8	27.5		
GPRS 1900	Class 10	24.5		
GFKS 1900	Class 11	22.5		
	Class 12	21.5		
	Class 8	25.5		
EDGE 1900	Class 10	22.5		
EDGE 1900	Class 11	20.5		
	Class 12	19.5		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 86 of 377

Technology / Band	Mode	Default Maximum Power (dBm)
	RMC 12.2K data	18.5
	HSDPA case 1	18.5
	HSDPA case 2	18.5
	HSDPA case 3	18.5
	HSDPA case 4	18.5
UMTS B2	HSUPA case 1	18.5
	HSUPA case 2	18.5
	HSUPA case 3	18.5
	HSUPA case 4	18.5
	HSUPA case 5	18.5
	RMC 12.2K data	19.5
	HSDPA case 1	19.5
	HSDPA case 2	19.5
	HSDPA case 3	19.5
LINATO DA	HSDPA case 4	19.5
UMTS B4	HSUPA case 1	19.5
	HSUPA case 2	19.5
	HSUPA case 3	19.5
	HSUPA case 4	19.5
	HSUPA case 5	19.5

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 87 of 377

Technology / Band	Mode	Default Maximum Power (dBm)
	RMC 12.2K data	20.5
	HSDPA case 1	20.5
	HSDPA case 2	20.5
	HSDPA case 3	20.5
LIMITO DE	HSDPA case 4	20.5
UMTS B5	HSUPA case 1	20.5
	HSUPA case 2	20.5
	HSUPA case 3	20.5
	HSUPA case 4	20.5
	HSUPA case 5	20.5

Technology / Band	Mode	Default Maximum Power (dBm)
CDMA BC0	All	20.5
CDMA BC1	All	18
LTE B2	All	18.5
LTE B4	All	18.5
LTE B5	All	20
LTE B7	All	19
LTE B12	All	19.5
LTE B13	All	19
LTE B17	All	19

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 88 of 377

1.7 The SAR Measurement System

A block diagram of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ ($|Ei|^2$)/ ρ where σ and ρ are the conductivity and mass density of the tissue-simulant.

The DASY 5 system for performing compliance tests consists of the following items:

- 1. A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- 2. A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage intissue simulating liquid. The probe is equipped with an optical surface detector system.
- 3. A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

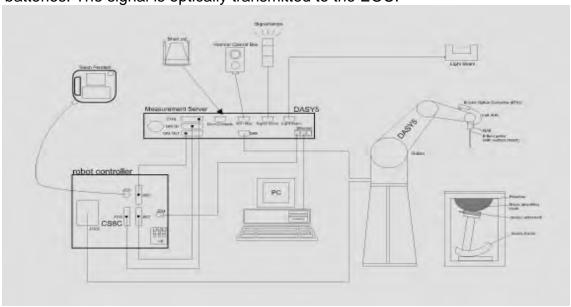


Fig. a The block diagram of SAR system

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd. t (886-2) 2299-3279



Page: 89 of 377

- 4. The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- 5. The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- 6. A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- 7. A computer operating Windows 7.
- 8. DASY 5 software.
- 9. Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- 10. The SAM twin phantom enabling testing left-hand and right-hand usage.
- 11. The device holder for handheld mobile phones.
- 12. Tissue simulating liquid mixed according to the given recipes.
- 13. Validation dipole kits allowing to validate the proper functioning of the system.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 90 of 377

1.8 System Components

EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)				
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/1900/2450/2600/5300 MHz Additional CF for other liquids and frequencies upon request				
Frequency	10 MHz to > 6 GHz				
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)				
Dynamic	$10 \mu\text{W/g}$ to > 100mW/g				
Range	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)				
Dimensions	Tip diameter: 2.5 mm				
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 91 of 377

SAM PHANTOM V4 OC

SAM PHANT	71VI V4.UC					
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points with the robot.					
Shell Thickness	2 ± 0.2 mm					
Filling Volume	Approx. 25 liters	The state of the s				
Dimensions	Height: 850 mm; Length: 1000 mm; Width: 500 mm					

DEVICE HOLDER

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin), which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	
		Device Holder

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 92 of 377

1.9 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 750/835/1750/1900/2450/2600/ 5300MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the ambient temperature of the laboratory was 21.7°C, the relative humidity was 62% and the liquid depth above the ear reference points was ≥ 15 cm ± 5 mm (frequency ≤ 3 GHz) or ≥ 10 cm ± 5 mm (frequency > 3 G Hz) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

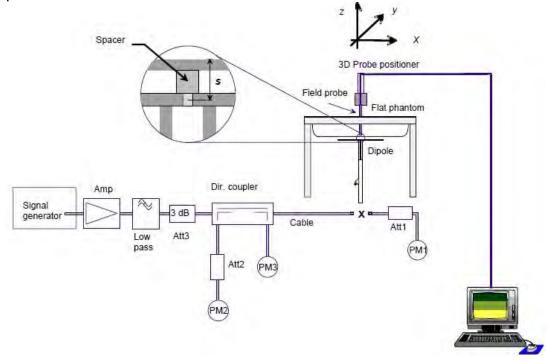


Fig. b The block diagram of system verification

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd. t (886-2) 2299-3279 www.tw.sas.com



Page: 93 of 377

Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W	Deviatio n (%)	Measured Date
D750V2	1015	750	Body	8.52	2.12	8.48	-0.47%	Oct. 13, 2015
D750V2	1015	750	Body	8.52	2.23	8.92	4.69%	Oct. 14, 2015
D835V2	4d063	835	Body	9.28	2.44	9.76	5.17%	Oct. 15, 2015
D1750V2	1008	1750	Body	37.4	9.52	38.08	1.82%	Oct. 16, 2015
D1900V2	5d027	1900	Body	39.3	9.71	38.84	-1.17%	Oct. 19, 2015
D1900V2	5d027	1900	Body	39.9	9.73	38.92	-2.46%	Oct. 24, 2015
D2450V2	727	2450	Body	51	13.3	53.2	4.31%	Mar. 07, 2016
D2600V2	1005	2600	Body	55.1	14	56	1.63%	Oct. 20, 2015
D5GHzV2	1023	5300	Body	75.1	7.59	75.9	1.07%	Mar. 07, 2016

Table 1. Results of system validation

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 94 of 377

1.10 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this body-simulant fluid were measured by using the Agilent Model 85070E Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Network Analyzer (30 KHz-6000 MHz).

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The depth of the tissue simulant in the flat section of the phantom was \geq 15 cm \pm 5 mm (Frequency \leq 3G) or \geq 10 cm \pm 5 mm (Frequency \geq 3G) during all tests. (Fig. 2)

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivi ty, σ (S/m)	Measured Dielectric Constant, Er	Measured Conductivity, σ (S/m)	% dev ɛr	% dev σ
		704	55.710	0.960	54.756	0.982	1.71%	-2.31%
		707.5	55.697	0.960	54.748	0.983	1.70%	-2.39%
	2045/40/42	709	55.691	0.960	54.715	0.985	1.75%	-2.58%
	2015/10/13	710	55.687	0.960	54.686	0.985	1.80%	-2.58%
		711	55.683	0.960	54.667	0.986	1.82%	-2.67%
		750	55.531	0.963	54.338	0.996	2.15%	-3.39%
	2015/10/14	750	55.531	0.963	54.321	0.997	2.18%	-3.49%
	2015/10/14	782	55.406	0.966	54.199	0.999	2.18%	-3.43%
	2015/10/15	824.2	55.242	0.969	53.323	1.006	3.47%	-3.80%
		824.7	55.240	0.969	53.321	1.006	3.47%	-3.80%
		826.4	55.234	0.969	53.314	1.006	3.48%	-3.78%
		829	55.223	0.970	53.288	1.007	3.50%	-3.86%
		835	55.200	0.970	53.287	1.007	3.47%	-3.81%
Body		836.5	55.195	0.972	53.277	1.009	3.48%	-3.82%
		836.52	55.195	0.972	53.276	1.009	3.48%	-3.82%
		836.6	55.195	0.972	53.269	1.009	3.49%	-3.81%
		844	55.172	0.981	53.261	1.018	3.46%	-3.76%
		846.6	55.164	0.984	53.244	1.021	3.48%	-3.73%
		848.31	55.159	0.986	53.239	1.024	3.48%	-3.81%
		848.8	55.158	0.987	53.219	1.025	3.52%	-3.85%
		1712.4	53.531	1.465	51.59	1.514	3.63%	-3.37%
		1720	53.511	1.469	51.576	1.519	3.62%	-3.37%
		1732.4	53.478	1.477	51.566	1.527	3.58%	-3.36%
	2015/10/16	1732.5	53.478	1.477	51.533	1.527	3.64%	-3.36%
		1745	53.445	1.485	51.496	1.534	3.65%	-3.28%
		1750	53.432	1.488	51.489	1.539	3.64%	-3.40%
		1752.6	53.425	1.490	51.486	1.539	3.63%	-3.28%

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 95 of 377

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant,	Target Conductivi ty, σ (S/m)	Measured Dielectric Constant, Er	Measured Conductivity, σ (S/m)	% dev ɛr	% dev σ
		1850.2	53.300	1.520	52.079	1.542	2.29%	-1.45%
		1851.25	53.300	1.520	52.077	1.543	2.29%	-1.51%
		1860	53.300	1.520	52.072	1.548	2.30%	-1.84%
	2015/10/19	1880	53.300	1.520	52.059	1.557	2.33%	-2.43%
		1900	53.300	1.520	52.041	1.564	2.36%	-2.89%
		1908.75	53.300	1.520	52.033	1.569	2.38%	-3.22%
		1909.8	53.300	1.520	52.032	1.571	2.38%	-3.36%
		1852.4	53.300	1.520	52.106	1.545	2.24%	-1.64%
	2015/10/24	1880	53.300	1.520	52.062	1.556	2.32%	-2.37%
		1900	53.300	1.520	52.044	1.563	2.36%	-2.83%
Body		1907.6	53.300	1.520	52.036	1.569	2.37%	-3.22%
	2015/10/20	2510	52.624	2.035	51.693	2.101	1.77%	-3.24%
		2535	52.592	2.071	51.683	2.137	1.73%	-3.21%
	2013/10/20	2560	52.560	2.106	51.599	2.175	1.83%	-3.28%
		2600	52.509	2.163	51.559	2.232	1.81%	-3.20%
		2441	52.712	1.941	52.443	1.976	0.51%	-1.78%
		2437	52.717	1.938	52.438	1.979	0.53%	-2.13%
	2016/3/7	2450	52.697	1.953	52.416	1.991	0.53%	-1.97%
	2010/3/1	2462	52.685	1.967	52.412	2.006	0.52%	-1.96%
		5280	48.906	5.393	48.400	5.447	1.03%	-1.00%
		5300	48.879	5.416	48.392	5.468	1.00%	-0.96%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. SGS Taiwan Ltd.



Page: 96 of 377

The composition of the body tissue simulating liquid:

_				Ingre	dient	<u> </u>		
Frequency (MHz)	Mode	DGMBE Water		Salt	Preventol D-7	Cellulose	Sugar	Total amount
750	Body	_	631.68 g	11.72 g	1.2 g	-	600 g	1.0L(Kg)
850	Body	_	631.68 g	11.72 g	1.2 g	-	600 g	1.0L(Kg)
1750	Body	300.67 g	716.56 g	4.0 g	ı	1	_	1.0L(Kg)
1900	Body	300.67 g	716.56 g	4.0 g	1	-	_	1.0L(Kg)
2450	Body	301.7ml	698.3ml	_	1	_	_	1.0L(Kg)
2600	Body	301.7ml	698.3ml	_	_	_	_	1.0L(Kg)

Simulating Liquids for 5 GHz, Manufactured by SPEAG:

Ingredients	Water	Esters, Emulsifiers, Inhibitors	Sodium and Salt
(% by weight)	60-80	20-40	0-1.5

Table 3. Recipes for Tissue Simulating Liquid

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 97 of 377

1.11 Evaluation Procedures

The entire evaluation of the spatial peak values is performed within the Post-processing engine (SEMCAD). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- 1. The extraction of the measured data (grid and values) from the Zoom Scan.
- 2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- 3. The generation of a high-resolution mesh within the measured volume
- 4. The interpolation of all measured values from the measurement grid to the high-resolution grid
- 5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- 6. The calculation of the averaged SAR within masses of 1g and 10g.

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within -2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans. The routines are verified and optimized for the grid dimensions used in these cube measurements.

The measured volume of 30x30x30mm contains about 30g of tissue.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 98 of 377

The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is the moved around until the highest averaged SAR is found. If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

1.12 Probe Calibration Procedures

For the calibration of E-field probes in lossy liquids, an electric field with an accurately known field strength must be produced within the measured liquid. For standardization purposes it would be desirable if all measurements which are necessary to assess the correct field strength would be traceable to standardized measurement procedures. In the following two different calibration techniques are summarized:

1.12.1 Transfer Calibration with Temperature Probes

In lossy liquids the specific absorption rate (SAR) is related both to the electric field (E) and the temperature gradient ($\delta T / \delta t$) in the liquid.

$$SAR = \frac{\sigma}{\rho} |E|^2 = c \frac{\delta T}{\delta t}$$

whereby σ is the conductivity, ρ the density and c the heat capacity of the liquid.

Hence, the electric field in lossy liquid can be measured indirectly by measuring the temperature gradient in the liquid. Non-disturbing temperature probes (optical probes or thermistor probes with resistive lines) with high spatial resolution (<1-2 mm) and fast reaction time (<1 s) are available and can be easily calibrated with high precision [1]. The setup and the exciting source have no influence on the calibration; only the relative positioning uncertainties of the standard temperature probe and the E-field probe to be calibrated must be considered. However, several problems limit the available accuracy of probe calibrations with temperature probes:

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號



Page: 99 of 377

- 1. The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the thermal equilibrium in the liquid. With a careful setup these errors can be kept small.
- 2. The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
- 3. The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures (~ 2% for c; much better for p), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed ±5%.
- 4. Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about ±10% (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is ±5% (RSS) when the same liquid is used for the calibration and for actual measurements and ±7-9% (RSS) when not, which is in good agreement with the estimates given in [2].

1.12.2 Calibration with Analytical Fields

In this method a technical setup is used in which the field can be calculated analytically from measurements of other physical magnitudes (e.g., input power). This corresponds to the standard field method for probe calibration in air; however, there is no standard defined for fields in lossy liquids. When using calculated fields in lossy liquids for probe calibration, several points must be considered in the assessment of the uncertainty:

- 1. The setup must enable accurate determination of the incident power.
- 2. The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 100 of 377

3. Due to the small wavelength in liquids with high permittivity, even small setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

References

- N. Kuster, Q. Balzano, and J.C. Lin, Eds., Mobile Communications Safety, Chapman & Hall, London, 1997.
- 2. K. Meier, M. Burkhardt, T. Schmid, and N. Kuster, \Broadband calibration of E-field probes in lossy media", IEEE Transactions on Microwave Theory and Techniques, vol. 44, no. 10, pp. 1954{1962, Oct. 1996.
- K. Jokela, P. Hyysalo, and L. Puranen, \Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", IEEE Transactions on Instrumentation and Measurements, vol. 47, no. 2, pp. 432{438, Apr. 1998.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be

prosecuted to the fullest extent of the law. SGS Taiwan Ltd.



Page: 101 of 377

1.13 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1, By the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

- Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube).
- Occupational/Controlled limits apply when persons are exposed as a 2. consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.
- Limits for General Population/Uncontrolled exposure: 0.08 W/kg as 3. averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

www.tw.sas.com



Page: 102 of 377

exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section. (Table 4.)

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR (Brain)	1.60 m W/g	8.00 m W/g
Spatial Average SAR (Whole Body)	0.08 m W/g	0.40 m W/g
Spatial Peak SAR (Hands/Feet/Ankle/Wrist)	4.00 m W/g	20.00 m W/g

Table 4. RF exposure limits

Notes:

- 1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
- 2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

www.tw.sas.com



Page: 103 of 377

2. Summary of Results

GPRS 850 MHz (without power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/ Measured	g kg)	Plot page
	Back side	10mm	190	836.6	33	33.00	0.00%	0.270	0.270	-
GPRS 850	Top side	10mm	190	836.6	33	33.00	0.00%	0.146	0.146	-
(1Dn2UP)	Left side	0mm	190	836.6	33	33.00	0.00%	0.087	0.087	-
	Right side	0mm	190	836.6	33	33.00	0.00%	0.011	0.011	-

GPRS 850 MHz (with power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Power	Scaling	Averaged 1, (W/	g	Plot page
		(111111)			rolorance (abiii)	(dBm)		Measured	Reported	
-	Back side	0mm	128	824.2	22.5	22.10	9.65%	0.747	0.819	-
0000000	Back side	0mm	190	836.6	22.5	22.10	9.65%	0.857	0.940	-
GPRS 850 (1Dn4UP)	Back side	0mm	251	848.8	22.5	22.40	2.33%	1.060	1.085	259
(1DN4UP) =	Back side*	0mm	251	848.8	22.5	22.40	2.33%	1.050	1.074	-
	Top side	0mm	251	848.8	22.5	22.40	2.33%	0.475	0.486	-

^{* -} repeated at the highest SAR measurement according to the KDB 865664 D01

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 104 of 377

GPRS 1900 MHz (without power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/ Measured	g ˈkg)	Plot page
	Back side	10mm	661	1880	30	30.00	0.00%	0.452	0.452	-
GPRS 1900	Top side	10mm	661	1880	30	30.00	0.00%	0.281	0.281	-
(1Dn2UP)	Left side	0mm	661	1880	30	30.00	0.00%	0.127	0.127	-
	Right side	0mm	661	1880	30	30.00	0.00%	0.024	0.024	-

GPRS 1900 MHz (with power reduction)

Mode	Position	Distanc e (mm)	СН	(MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/ Measured	g kg)	Plot page
	Back side	0mm	512	1850.2	21.5	20.30	31.83%	0.618	0.815	-
GPRS 1900	Back side	0mm	661	1880	21.5	20.00	41.25%	0.624	0.881	-
(1Dn4UP)	Back side	0mm	810	1909.8	21.5	20.10	38.04%	0.743	1.026	260
	Top side	0mm	512	1850.2	21.5	20.30	31.83%	0.353	0.465	-

WCDMA Band II (without power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/ Measured	g kg)	Plot page
	Back side	10mm	9262	1852.4	24.5	23.78	18.03%	0.459	0.542	-
WCDMA	Top side	10mm	9262	1852.4	24.5	23.78	18.03%	0.356	0.420	-
Band 2	Left side	0mm	9262	1852.4	24.5	23.78	18.03%	0.157	0.185	-
	Right side	0mm	9262	1852.4	24.5	23.78	18.03%	0.029	0.034	-

WCDMA Band II (with power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Power	Scaling	(۷۷/	g kg)	Plot page
		,			,	(dBm)		Measured	Reported	
	Back side	0mm	9262	1852.4	19	18.99	0.23%	1.090	1.093	261
	Back side*	0mm	9262	1852.4	19	18.99	0.23%	1.080	1.082	-
MCDMA	Back side	0mm	9400	1880	19	18.95	1.16%	1.070	1.082	-
WCDMA Band 2	Back side	0mm	9538	1907.6	19	18.92	1.86%	1.040	1.059	-
24.14.2	Top side	0mm	9262	1852.4	19	18.99	0.23%	0.742	0.744	-
	Top side	0mm	9400	1880	19	18.95	1.16%	0.727	0.735	-
	Top side	0mm	9538	1907.6	19	18.92	1.86%	0.702	0.715	-

^{* -} repeated at the highest SAR measurement according to the KDB 865664 D01

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 105 of 377

WCDMA Band IV (without power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/ Measured	g kg)	Plot page
	Back side	10mm	1312	1712.4	24.5	23.52	25.31%	0.449	0.563	-
WCDMA	Top side	10mm	1312	1712.4	24.5	23.52	25.31%	0.426	0.534	-
Band 4	Left side	0mm	1312	1712.4	24.5	23.52	25.31%	0.145	0.182	-
	Right side	0mm	1312	1712.4	24.5	23.52	25.31%	0.017	0.021	-

WCDMA Band IV (with power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/ Measured	g ˈkg)	Plot page
	Back side	0mm	1312	1712.4	19.5	17.96	42.56%	0.757	1.079	262
WCDMA	Back side	0mm	1412	1732.4	19.5	17.82	47.23%	0.727	1.070	-
Band 4	Back side	0mm	1513	1752.6	19.5	17.6	54.88%	0.679	1.052	-
	Top side	0mm	1312	1712.4	19.5	17.96	42.56%	0.330	0.470	-

WCDMA Band V (without power reduction)

Mode	Position	Distanc e CH (mm)		Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged SAR over 1g (W/kg)		Plot page
		(11111)			Tolcrance (dbin)	(dBm)		Measured	Reported	
	Back side	10mm	4233	846.6	24.5	23.36	30.02%	0.566	0.736	-
WCDMA	Top side	10mm	4233	846.6	24.5	23.36	30.02%	0.433	0.563	-
Band 5	Left side	0mm	4233	846.6	24.5	23.36	30.02%	0.263	0.342	-
	Right side	0mm	4233	846.6	24.5	23.36	30.02%	0.00944	0.012	-

WCDMA Band V (with power reduction)

Mode	Position	Distanc e (mm)			Max. Rated Avg. Power + Max. Tolerance (dBm)	Power	Scaling	Averaged 1, (W/	Plot page	
		,			1 010141100 (42111)	(dBm)		Measured	Reported	
	Back side	0mm	4132	826.4	20.5	19.55	24.45%	0.910	1.133	-
14405144	Back side	0mm	4183	836.6	20.5	19.73	19.40%	0.927	1.107	263
WCDMA Band 5	Back side*	0mm	4183	836.6	20.5	19.73	19.40%	0.912	1.089	-
Dana 3	Back side	0mm	4233	846.6	20.5	19.86	15.88%	0.895	1.037	-
	Top side	0mm	4233	846.6	20.5	19.86	15.88%	0.556	0.644	-

⁻ repeated at the highest SAR measurement according to the KDB 865664 D01

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 106 of 377

LTE FDD Band II (without power reduction)

Mode Bandwi dth (MHz)				Position	Distance		_	Max. Rated Avg.	Measure d		Averaged 1g (V			
	Modulatior	RB Size	RB start		Distance (mm)	СН	Freq. (MHz)	Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page	
				Back side	10mm	19100	1900	24	23.48	12.72%	0.495	0.558	-	
			1 RB	50	Top side	10mm	19100	1900	24	23.48	12.72%	0.391	0.441	-
				30	Left side	0mm	19100	1900	24	23.48	12.72%	0.193	0.218	-
					Right side	0mm	19100	1900	24	23.48	12.72%	0.029	0.033	-
					Back side	10mm	19100	1900	23	22.46	13.24%	0.384	0.435	-
LTE	20MHz	QPSK	50 RB	0	Top side	10mm	19100	1900	23	22.46	13.24%	0.301	0.341	-
Band 2	ZUIVII IZ	QFSK	30 KB	"	Left side	0mm	19100	1900	23	22.46	13.24%	0.142	0.161	-
					Right side	0mm	19100	1900	23	22.46	13.24%	0.017	0.019	-
					Back side	10mm	19100	1900	23	22.37	15.61%	0.351	0.406	-
			100	DD	Top side	10mm	19100	1900	23	22.37	15.61%	0.294	0.340	-
			100	ND	Left side	0mm	19100	1900	23	22.37	15.61%	0.138	0.160	-
						Right side	0mm	19100	1900	23	22.37	15.61%	0.015	0.017

LTE FDD Band II (with power reduction)

Mode Bandwi dth Mod				Position	Distance		F	Max. Rated Avg.	Measure		Averaged 1g (W			
	Modulatior	RB Size	RB start		Distance (mm)	СН	Freq. (MHz)	Power + Max. Toleranc e (dBm)	d Avg. Power (dBm)	Scaling	Measured	Reported	Plot page	
				Back side	0mm	18700	1860	18.5	17.53	25.03%	0.823	1.029	-	
			1 RB	0	Back side	0mm	19100	1900	18.5	17.72	19.67%	0.881	1.054	264
				0	Back side*	0mm	19100	1900	18.5	17.72	19.67%	0.814	0.974	-
					Top side	0mm	19100	1900	18.5	17.72	19.67%	0.564	0.675	-
				99	Back side	0mm	18900	1880	18.5	17.53	25.03%	0.826	1.033	-
LTE					Back side	0mm	18700	1860	18.5	17.40	28.82%	0.793	1.022	-
Band 2	20MHz	QPSK	50 RB	0	Back side	0mm	18900	1880	18.5	17.48	26.47%	0.822	1.040	-
Danu 2			30 KB	"	Back side	0mm	19100	1900	18.5	17.69	20.50%	0.872	1.051	-
					Top side	0mm	19100	1900	18.5	17.69	20.50%	0.559	0.674	-
					Back side	0mm	18700	1860	18.5	17.39	29.12%	0.791	1.021	-
			100	PR	Back side	0mm	18900	1880	18.5	17.40	28.82%	0.817	1.052	-
			100	ND	Back side	0mm	19100	1900	18.5	17.65	21.62%	0.863	1.050	-
				Top side	0mm	19100	1900	18.5	17.65	21.62%	0.549	0.668	-	

⁻ repeated at the highest SAR measurement according to the KDB 865664 D01

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 107 of 377

LTE FDD Band IV (without power reduction)

Mode Bandwi dth (MHz)							_	Max. Rated Avg. Power + Max. Toleranc e (dBm)	Measure		Averaged 1g (V			
	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)		Power	Scaling	Measured	Reported	Plot page	
				Back side	10mm	20175	1732.5	24		18.85%	0.418	0.497	-	
			1 RB	0	Top side	10mm	20175	1732.5	24	23.25	18.85%	0.472	0.561	-
			IND	0	Left side	0mm	20175	1732.5	24	23.25	18.85%	0.170	0.202	-
					Right side	0mm	20175	1732.5	24	23.25	18.85%	0.019	0.023	-
					Back side	10mm	20050	1720	23	22.36	15.88%	0.332	0.385	-
LTE	20MHz	QPSK	50 RB	0	Top side	10mm	20050	1720	23	22.36	15.88%	0.374	0.433	-
Band 4	201011 12	QFSIX	30 KB	0	Left side	0mm	20050	1720	23	22.36	15.88%	0.131	0.152	-
					Right side	0mm	20050	1720	23	22.36	15.88%	0.015	0.017	-
					Back side	10mm	20050	1720	23	22.29	17.76%	0.321	0.378	-
			100	DD	Top side	10mm	20050	1720	23	22.29	17.76%	0.366	0.431	-
			100	ND	Left side	0mm	20050	1720	23	22.29	17.76%	0.128	0.151	-
					Right side	0mm	20050	1720	23	22.29	17.76%	0.014	0.016	-

LTE FDD Band IV (with power reduction)

Mode Bandwi dth Modula (MHz)	Pandwi					Distance		_	Max. Rated	Measure d		Averaged 1g (V		
	Modulatior	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page	
					Back side	0mm	20050	1720	18.5	17.84	16.41%	0.908	1.057	265
					Back side*	0mm	20050	1720	18.5	17.84	16.41%	0.907	1.056	-
			1 RB	0	Back side	0mm	20175	1732.5	18.5	17.85	16.14%	0.889	1.033	-
					Back side	0mm	20300	1745	18.5	17.58	23.59%	0.825	1.020	-
					Top side	0mm	20175	1732.5	18.5	17.85	16.14%	0.426	0.495	-
LTE			50 RB	0	Back side	0mm	20175	1732.5	18.5	17.66	21.34%	0.866	1.051	-
Band 4	20MHz	QPSK		_	Back side	0mm	20300	1745	18.5	17.48	26.47%	0.805	1.018	-
Danu 4			30 KB	25	Back side	0mm	20050	1720	18.5	17.84	16.41%	0.902	1.050	-
				23	Top side	0mm	20050	1720	18.5	17.84	16.41%	0.431	0.502	-
					Back side	0mm	20050	1720	18.5	17.80	17.49%	0.895	1.052	-
			100	DB	Back side	0mm	20175	1732.5	18.5	17.61	22.74%	0.857	1.052	-
			100	ואט	Back side	0mm	20300	1745	18.5	17.42	28.23%	0.791	1.014	-
					Top side	0mm	20050	1720	18.5	17.80	17.49%	0.426	0.501	-

^{* -} repeated at the highest SAR measurement according to the KDB 865664 D01

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 108 of 377

LTE FDD Band V (without power reduction)

	Bandwi				t Position	B		F	Max. Rated Avg. Power + Max. Toleranc e (dBm)	Measure d		Averaged 1g (W		
Mode		Modulatior	RB Size	RB start		Distance (mm)	СН	Freq. (MHz)		Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
				Back side	10mm	20525	836.5	24	23.18	20.78%	0.589	0.711	-	
			1 RB	49	Top side	10mm	20525	836.5	24	23.18	20.78%	0.412	0.498	-
			IND	49	Left side	0mm	20525	836.5	24	23.18	20.78%	0.280	0.338	-
					Right side	0mm	20525	836.5	24	23.18	20.78%	0.024	0.029	-
			25 RB		Back side	10mm	20525	836.5	23	22.14	21.90%	0.472	0.575	-
LTE	10MHz	QPSK		25	Top side	10mm	20525	836.5	23	22.14	21.90%	0.324	0.395	-
Band 5	TOWNIZ	QI OIX	25 KD		Left side	0mm	20525	836.5	23	22.14	21.90%	0.221	0.269	-
					Right side	0mm	20525	836.5	23	22.14	21.90%	0.017	0.021	-
					Back side	10mm	20600	844	23	22.20	20.23%	0.469	0.564	-
			50 F	PR	Top side	10mm	20600	844	23	22.20	20.23%	0.321	0.386	-
			301	\D	Left side	0mm	20600	844	23	22.20	20.23%	0.221	0.266	-
					Right side	0mm	20600	844	23	22.20	20.23%	0.016	0.019	-

LTE FDD Band V (with power reduction)

Bandwi					Position	Distance		Frog	Max. Rated Avg.	Measure d		Averaged 1g (V		
Mode dth (MHz) Modulation	Modulatior	RB Size	RB start	Distance (mm)		СН	Freq. (MHz)	Power + Max. Toleranc e (dBm)	Avg. Power (dBm)	Scaling	Measured	Reported	Plot page	
				0	Back side	0mm	20600	844	20	19.75	5.93%	0.953	1.009	266
				U	Top side	0mm	20600	844	20	19.75	5.93%	0.615	0.651	-
			1 RB		Back side	0mm	20450	829	20	19.53	11.43%	0.935	1.042	-
				49	Back side*	0mm	20450	829	20	19.53	11.43%	0.931	1.037	-
					Back side	0mm	20525	836.5	20	19.71	6.91%	0.933	0.997	-
LTE				0	0	Back side	0mm	20600	844	20	19.66	8.14%	0.924	0.999
Band 5	10MHz	QPSK	25 RB		Back side	0mm	20450	829	20	19.54	11.17%	0.926	1.029	-
Dana 3			23 ND	25	Back side	0mm	20525	836.5	20	19.67	7.89%	0.921	0.994	-
					Top side	0mm	20525	836.5	20	19.67	7.89%	0.602	0.650	-
					Back side	0mm	20450	829	20	19.49	12.46%	0.904	1.017	-
			50 F	o D	Back side	0mm	20525	836.5	20	19.65	8.39%	0.915	0.992	-
			30 1	(D	Back side	0mm	20600	844	20	19.71	6.91%	0.934	0.998	-
					Top side	0mm	20600	844	20	19.71	6.91%	0.611	0.653	-

^{* -} repeated at the highest SAR measurement according to the KDB 865664 D01

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 109 of 377

LTE FDD Band VII (without power reduction)

	Bandwi								Max. Rated	Measure d		Averaged 1g (V		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
					Back side	10mm	20850	2510	24	22.61	37.72%	0.625	0.861	-
					Back side	10mm	21350	2560	24	23.28	18.03%	0.738	0.871	-
			1 RB	50	Top side	10mm	21350	2560	24	23.28	18.03%	0.649	0.766	-
			IND		Left side	0mm	21350	2560	24	23.28	18.03%	0.513	0.606	-
					Right side	0mm	21350	2560	24	23.28	18.03%	0.031	0.037	-
				99	Back side	0mm	21100	2535	24	22.90	28.82%	0.669	0.862	-
LTE	20MHz	QPSK			Back side	10mm	21350	2560	23	21.99	26.18%	0.536	0.676	-
Band 7	20111112	QI OIX	50 RB	0	Top side	10mm	21350	2560	23	21.99	26.18%	0.471	0.594	-
			30 KB	ľ	Left side	0mm	21350	2560	23	21.99	26.18%	0.372	0.469	-
					Right side	0mm	21350	2560	23	21.99	26.18%	0.021	0.026	-
					Back side	10mm	21100	2535	23	22.12	22.46%	0.544	0.666	-
			100	RR	Top side	10mm	21100	2535	23	22.12	22.46%	0.475	0.582	-
			100	ייי	Left side	0mm	21100	2535	23	22.12	22.46%	0.379	0.464	-
					Right side	0mm	21100	2535	23	22.12	22.46%	0.022	0.027	-

^{* -} repeated at the highest SAR measurement according to the KDB 865664 D01

LTE FDD Band VII (with power reduction)

	Dandui								Max. Rated	Measure d		Averaged 1g (V		
Mode	Bandwi dth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page
					Back side	0mm	20850	2510	19	17.94	27.64%	0.787	1.005	-
					Back side	0mm	21100	2535	19	18.09	23.31%	0.851	1.049	-
			1 RB	99	Back side	0mm	21350	2560	19	18.47	12.98%	0.959	1.083	267
					Back side*	0mm	21350	2560	19	18.47	12.98%	0.955	1.079	-
					Top side	0mm	21350	2560	19	18.47	12.98%	0.678	0.766	-
LTE					Back side	0mm	20850	2510	19	17.98	26.47%	0.788	0.997	-
Band 7	20MHz	QPSK	50 RB	50	Back side	0mm	21100	2535	19	18.03	25.03%	0.825	1.031	-
Dana /			30 KD	30	Back side	0mm	21350	2560	19	18.49	12.46%	0.951	1.069	-
					Top side	0mm	21350	2560	19	18.49	12.46%	0.676	0.760	-
				Back side	0mm	20850	2510	19	17.97	26.77%	0.789	1.000	-	
			100	DD	Back side	0mm	21100	2535	19	17.94	27.64%	0.821	1.048	-
			100	ND	Back side	0mm	21350	2560	19	18.35	16.14%	0.931	1.081	-
					Top side	0mm	21350	2560	19	18.35	16.14%	0.651	0.756	-

^{* -} repeated at the highest SAR measurement according to the KDB 865664 D01

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 110 of 377

LTE FDD Band XII (without power reduction)

	Bandwi								Max. Rated Avg.	Measure d		Averaged 1g (W		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page
					Back side	10mm	23060	704	24	23.04	24.74%	0.528	0.659	-
			1 RB	49	Top side	10mm	23060	704	24	23.04	24.74%	0.328	0.409	-
			IND	43	Left side	0mm	23060	704	24	23.04	24.74%	0.169	0.211	-
					Right side	0mm	23060	704	24	23.04	24.74%	0.022	0.027	-
,					Back side	10mm	23095	707.5	23	22.07	23.88%	0.409	0.507	-
LTE Band	10MHz	QPSK	25 RB	25	Top side	10mm	23095	707.5	23	22.07	23.88%	0.251	0.311	-
12	TOWINZ	QFSK	23 KB	25	Left side	0mm	23095	707.5	23	22.07	23.88%	0.131	0.162	-
'-					Right side	0mm	23095	707.5	23	22.07	23.88%	0.018	0.022	-
					Back side	10mm	23095	707.5	23	22.07	23.88%	0.408	0.505	-
			50 F	PR	Top side	10mm	23095	707.5	23	22.07	23.88%	0.251	0.311	-
			30 1	\D	Left side	0mm	23095	707.5	23	22.07	23.88%	0.131	0.162	-
					Right side	0mm	23095	707.5	23	22.07	23.88%	0.018	0.022	-

LTE FDD Band XII (with power reduction)

	Bandwi								Max. Rated Avg.	Measure d		Averaged 1g (V		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page
				25	Back side	0mm	23095	707.5	19.5	18.90	14.82%	0.970	1.114	-
					Back side	0mm	23060	704	19.5	18.96	13.24%	0.983	1.113	-
			1 RB	49	Back side	0mm	23130	711	19.5	18.94	13.76%	0.988	1.124	268
				73	Back side*	0mm	23130	711	19.5	18.94	13.76%	0.981	1.116	-
					Top side	0mm	23060	704	19.5	18.96	13.24%	0.418	0.473	-
LTE				0	Back side	0mm	23130	711	19.5	18.86	15.88%	0.968	1.122	-
Band	10MHz	QPSK	25 RB		Back side	0mm	23060	704	19.5	18.87	15.61%	0.951	1.099	-
12			20 110	25	Back side	0mm	23095	707.5	19.5	18.86	15.88%	0.957	1.109	-
					Top side	0mm	23060	704	19.5	18.87	15.61%	0.409	0.473	-
					Back side	0mm	23060	704	19.5	18.77	18.30%	0.937	1.109	-
			50 F	R.	Back side	0mm	23095	707.5	19.5	18.85	16.14%	0.959	1.114	-
			301	ν.υ	Back side	0mm	23130	711	19.5	18.94	13.76%	0.986	1.122	-
					Top side	0mm	23130	711	19.5	18.94	13.76%	0.404	0.460	-

^{* -} repeated at the highest SAR measurement according to the KDB 865664 D01

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 111 of 377

LTE FDD Band XIII (without power reduction)

	Dandui								Max. Rated	Measure		Averaged 1g (W		
Mode	Bandwi dth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	Power	Scaling	Measured	Reported	Plot page
				0	Back side	10mm	23230	782	24	22.60	38.04%	0.602	0.831	-
				25	Back side	10mm	23230	782	24	22.73	33.97%	0.619	0.829	-
			1 RB		Back side	10mm	23230	782	24	22.98	26.47%	0.680	0.860	-
			IND	49	Top side	10mm	23230	782	24	22.98	26.47%	0.243	0.307	-
				49	Left side	0mm	23230	782	24	22.98	26.47%	0.227	0.287	-
LTE					Right side	0mm	23230	782	24	22.98	26.47%	0.024	0.030	-
Band	10MHz	QPSK			Back side	10mm	23230	782	23	21.88	29.42%	0.517	0.669	-
13	TOWNIZ	QFSIX	25 RB	12	Top side	10mm	23230	782	23	21.88	29.42%	0.182	0.236	-
'			25 110	12	Left side	0mm	23230	782	23	21.88	29.42%	0.169	0.219	-
					Right side	0mm	23230	782	23	21.88	29.42%	0.017	0.022	-
					Back side	10mm	23230	782	23	21.79	32.13%	0.501	0.662	-
			50 F	D D	Top side	10mm	23230	782	23	21.79	32.13%	0.172	0.227	-
			30 1	\D	Left side	0mm	23230	782	23	21.79	32.13%	0.161	0.213	-
					Right side	0mm	23230	782	23	21.79	32.13%	0.016	0.021	-

LTE FDD Band XIII (with power reduction)

	Bandwi								Max. Rated Avg.	Measure d		Averaged 1g (W		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page
				0	Back side	0mm	23230	782	19	18.84	3.75%	1.030	1.069	269
				U	Back side	0mm	23230	782	19	18.84	3.75%	1.000	1.038	-
			1 RB	25	Back side	0mm	23230	782	19	18.85	3.51%	1.010	1.045	-
				49	Back side*	0mm	23230	782	19	18.88	2.80%	0.995	1.023	-
LTE				49	Top side	0mm	23230	782	19	18.88	2.80%	0.723	0.743	-
Band	10MHz	QPSK		0	Back side	0mm	23230	782	19	18.89	2.57%	1.000	1.026	-
13			25 RB	12	Back side	0mm	23230	782	19	18.92	1.86%	1.000	1.019	-
			20 110	12	Top side	0mm	23230	782	19	18.92	1.86%	0.725	0.738	-
			25	Back side	0mm	23230	782	19	18.82	4.23%	0.979	1.020	-	
			50 F	PB .	Back side	0mm	23230	782	19	18.91	2.09%	1.000	1.021	-
			30 1	\D	Top side	0mm	23230	782	19	18.91	2.09%	0.721	0.736	-

^{* -} repeated at the highest SAR measurement according to the KDB 865664 D01

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 112 of 377

LTE FDD Band XVII (without power reduction)

	Bandwi									Measure d		Averaged 1g (W		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page
				0	Back side	10mm	23800	711	24	22.99	26.18%	0.711	0.897	-
					Back side	10mm	23780	709	24	23.04	24.74%	0.708	0.883	-
			1 RB		Back side	10mm	23790	710	24	23.08	23.59%	0.715	0.884	-
			IND	49	Top side	10mm	23790	710	24	23.08	23.59%	0.352	0.435	-
					Left side	0mm	23790	710	24	23.08	23.59%	0.175	0.216	-
LTE					Right side	0mm	23790	710	24	23.08	23.59%	0.014	0.017	-
Band	10MHz	QPSK			Back side	10mm	23780	709	23	22.08	23.59%	0.555	0.686	-
17	TOWNIZ	QFSIX	25 RB	25	Top side	10mm	23780	709	23	22.08	23.59%	0.274	0.339	-
''			23 ND	23	Left side	0mm	23780	709	23	22.08	23.59%	0.134	0.166	-
					Right side	0mm	23780	709	23	22.08	23.59%	0.011	0.014	-
					Back side	10mm	23800	711	23	22.07	23.88%	0.534	0.662	-
			50 F	PR	Top side	10mm	23800	711	23	22.07	23.88%	0.269	0.333	-
			301	(D	Left side	0mm	23800	711	23	22.07	23.88%	0.128	0.159	-
					Right side	0mm	23800	711	23	22.07	23.88%	0.010	0.012	-

LTE FDD Band XVII (with power reduction)

	Bandwi								Max. Rated Avg.	Measure d		Averaged 1g (V		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page
					Back side	0mm	23780	709	19	18.92	1.86%	1.040	1.059	270
					Back side*	0mm	23780	709	19	18.92	1.86%	1.020	1.039	-
			1 RB	49	Back side	0mm	23790	710	19	18.87	3.04%	1.020	1.051	-
					Back side	0mm	23800	711	19	18.95	1.16%	1.020	1.032	-
					Top side	0mm	23800	711	19	18.95	1.16%	0.527	0.533	-
LTE					Back side	0mm	23780	709	19	18.91	2.09%	1.020	1.041	-
Band	10MHz	QPSK	25 RB	25	Back side	0mm	23790	710	19	18.84	3.75%	1.010	1.048	-
17			20 110	20	Back side	0mm	23800	711	19	18.81	4.47%	0.986	1.030	-
					Top side	0mm	23780	709	19	18.91	2.09%	0.515	0.526	-
					Back side	0mm	23780	709	19	18.80	4.71%	0.996	1.043	-
			50 F	PR	Back side	0mm	23790	710	19	18.79	4.95%	0.998	1.047	-
			301	(D	Back side	0mm	23800	711	19	18.85	3.51%	1.000	1.035	-
					Top side	0mm	23800	711	19	18.85	3.51%	0.512	0.530	-

^{* -} repeated at the highest SAR measurement according to the KDB 865664 D01

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 113 of 377

CDMA / EVDO (BC0) (without power reduction)

Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1, (W/	g	Plot page
							Tolerance (dbin)	(dbiii)		Measured	Reported	
			Back side	10mm	1013	824.7	25	23.82	31.22%	0.631	0.828	-
			Back side	10mm	384	836.52	25	24.11	22.74%	0.683	0.838	-
CDMA	EVDO	Rev. 0	Back side	10mm	777	848.31	25	24.05	24.45%	0.664	0.826	-
BC 0	LVDO	Subtype 0/1	Top side	10mm	384	836.52	25	24.11	22.74%	0.53	0.651	-
			Left side	0mm	384	836.52	25	24.11	22.74%	0.281	0.345	-
			Right side	0mm	384	836.52	25	24.11	22.74%	0.021	0.026	-

CDMA / EVDO (BC0) (with power reduction)

	Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1, (W/	g	Plot page
						Toloranoo (abiii)	(dBiii)		Measured	Reported	
		Back side	0mm	1013	824.7	20.5	19.75	18.85%	0.910	1.082	-
	B 0	Back side*	0mm	1013	824.7	20.5	19.75	18.85%	0.906	1.077	-
EVDO	Rev. 0 Subtype 0/1	Back side	0mm	384	836.52	20.5	20.00	12.20%	0.932	1.046	271
	Cubtypo or i	Back side	0mm	777	848.31	20.5	19.98	12.72%	0.866	0.976	-
		Top side	0mm	384	836.52	20.5	20.00	12.20%	0.657	0.737	-

^{* -} repeated at the highest SAR measurement according to the KDB 865664 D01

CDMA / EVDO (BC1) (without power reduction)

Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 10 (W/	g	Plot page
							roioianoo (azini)	(32)		Measured	Reported	
			Back side	10mm	25	1851.25	25	24.41	14.55%	0.623	0.714	-
CDMA	EVDO	Rev. 0	Top side	10mm	25	1851.25	25	24.41	14.55%	0.364	0.417	-
BC 1	LVDO	Subtype 0/1	Left side	0mm	25	1851.25	25	24.41	14.55%	0.212	0.243	-
			Right side	0mm	25	1851.25	25	24.41	14.55%	0.014	0.016	-

CDMA / EVDO (BC1) (with power reduction)

Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1, (W/	g	Plot page
							Toloranoo (abiii)	(dBiii)		Measured	Reported	
			Back side	0mm	25	1851.25	18	17.99	0.23%	0.867	0.869	-
00111		B 0	Back side	0mm	600	1880	18	17.38	15.35%	0.842	0.971	-
CDMA BC 1	EVDO	Rev. 0 Subtype 0/1	Back side	0mm	1175	1908.75	18	17.05	24.45%	0.944	1.175	272
		Cubiype o/ i	Back side*	0mm	1175	1908.75	18	17.05	24.45%	0.929	1.156	-
			Top side	0mm	25	1851.25	18	17.99	0.23%	0.511	0.512	-

^{* -} repeated at the highest SAR measurement according to the KDB 865664 D01

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 114 of 377

In order to evaluate the simultaneous transmission SAR analysis based on the SAR data from both SAR reports(FCC ID: B94HNI72CAM & FCC ID: PD918260NG), we check the worst cases of WLAN SAR report in 2.4G and 5G respectively, such as the following shown.

WLAN SISO

Mode	Antenna Position		Distance	CI	- Freq. Power + _{Δν}		Measured Avg. Power	Scaling	Averaged SAR over 1g (W/kg)		Plot
ivioue	7 uncima	1 Goldon	(mm)	G	(MHz)	Max. Tolerance (dBm)	(dBm)	Scaling	Measured	Reported	page
WLAN802.11 b	Main	Back side	0	11	2462	15	14.95	1.16%	0.547	0.553	-
WLANOUZ.11 D	Aux	Back side	0	6	2437	15	14.92	1.86%	0.955	0.973	-
Bluetooth (GFSK)	Aux	Back side	0	39	2441	11.5	11.32	4.23%	0.302	0.315	-
	Main	Back side	0	60	5300	13.5	13.45	1.16%	0.601	0.608	273
WLAN802.11 a 5.3G	IVIAIII	Top side	0	60	5300	13.5	13.45	1.16%	0.501	0.507	-
WLAN6U2.11 a 5.3G	Aux	Back side	0	56	5280	13.5	13.43	1.62%	1.050	1.067	274
	Aux	Top side	0	56	5280	13.5	13.43	1.62%	0.978	0.994	-

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 115 of 377

3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
GPRS850/1900 + 2.4/5GHz WLAN Main	Yes
GPRS850/1900 + 2.4/5GHz WLAN Aux	Yes
GPRS850/1900 + 2.4/5GHz WLAN MIMO	Yes
WCDMA B2/4/5 + 2.4/5GHz WLAN Main	Yes
WCDMA B2/4/5 + 2.4/5GHz WLAN Aux	Yes
WCDMA B2/4/5 + 2.4/5GHz WLAN MIMO	Yes
LTE B2/4/5/8/12/13/17 + 2.4/5GHz WLAN Main	Yes
LTE B2/4/5/8/12/13/17 + 2.4/5GHz WLAN Aux	Yes
LTE B2/4/5/8/12/13/17 + 2.4/5GHz WLAN MIMO	Yes
CDMA BC0/BC1 + 2.4/5GHz WLAN Main	Yes
CDMA BC0/BC1 + 2.4/5GHz WLAN Aux	Yes
CDMA BC0/BC1 + 2.4/5GHz WLAN MIMO	Yes
GPRS850/1900 + 2.4/5GHz WLAN Main + BT	Yes
WCDMA B2/4/5 + 2.4/5GHz WLAN Main + BT	Yes
LTE B2/4/5/8/12/13/17 + 2.4/5GHz WLAN Main + BT	Yes
CDMA BC0/BC1 + 2.4/5GHz WLAN Main + BT	Yes

- 1. WWAN, WLAN and WiGig may transmit simultaneously.
- 2. Bluetooth and WLAN Aux share the same antenna path, and BT may transmit with WLAN Main simultaneously.
- 3. In order to evaluate the simultaneous transmission SAR based on the WLAN SAR report (FCC ID: PD918260NG), we checked the worst cases of WLAN SAR report in 2.4G and 5G respectively then used the highest reported WLAN SAR in the both reports to evaluate the simultaneous transmission SAR analysis to be more conservative.
- 4. The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the [Σ of MPE ratios] is \leq 1.0. Based on KDB447498D01, the simultaneous transmitted RF exposure test exclusion applied.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279

www.tw.sas.com



Page: 116 of 377

3.1 Estimated SAR calculation

According to KDB447498 D01 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

Estimated SAR =
$$\frac{\text{Max.tune up power(mW)}}{\text{Min.test separation distance(mm)}} \times \frac{\sqrt{f(GHz)}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

Mode / Band	frequency (GHz)	Test position	test separation distance(mm)	Estimated SAR(W/kg)
WLAN Main 2.4 / 5G	2.462	right / left	> 50mm	0.4
WLAN Aux 2.4 / 5G	2.462	left	> 50mm	0.4
ВТ	2.48	left	> 50mm	0.4

3.2 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by (SAR1 + SAR2)^1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and Ri is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd. t (886-2) 2299-3279 f (886-2) 2298-0488



Page: 117 of 377

GPRS 850 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR				
		Back side	0	1.085	0.630	1.180	2.895 below 0.996 ΣSAR<1.	Analyzed as below				
1	CDDS 850	Top side	0	0.486	0.150	0.360	0.996	ΣSAR<1.6, Not required				
1	GPRS 850 -	Right side	0	0.011	0.400	0.040	0.451	ΣSAR<1.6, Not required				
		Left side	0	0.087	0.400	0.400	0.887	ΣSAR<1.6, Not required				

WWAN & WLAN Main

-													
	Conditions	Position	SAR Value	Coordinates (cm)		ie Ž		ΣSAR (W/kg)	Peak Location Separation SP	SPLSR	Simultaneous Transmission		
			(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test			
	GPRS 850	Back side	1.085	9.85	-8.89	-0.11	1.715	125.6	0.018	SPLSR<0.04,			
	WLAN Main	Dack Side	0.63 9.46 3.66 -0.02		1.713	120.0	0.010	Not required					



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 118 of 377

WWAN & WI AN Aux

VVVVAIN & VV	LAIN AUX								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
GPRS 850	Back side	1.085	9.85	-8.89	-0.11	2.265	.265 199.8	0.017	SPLSR<0.04,
WLAN Aux	Dack Side	1.18	9.24	11.08	0.00	2.200	199.0	0.017	Not required
		W	VWAN		1	-	Aux		

WI AN Main & WI AN Aux

VVLAIN Maili	LAN WAIT & WEAT AUX											
Conditions	Position	SAR Value	Coo	Coordinates (cm)		ΣSAR (W/kg)	Peak Location Separation SPLS		Simultaneous Transmission			
		(W/kg)	Х	У	Z	(vv/kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.81	74.2	0.033	SPLSR<0.04,			
WLAN Aux	Dack Side	1.18	9.24	11.08	0.00	1.01	74.2	0.033	Not required			
	1											



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 119 of 377

GPRS 1900 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.026	0.630	1.180	2.836	Analyzed as below
2	GPRS	Top side	0	0.465	0.150	0.360	0.975	ΣSAR<1.6, Not required
	1900	Right side	0	0.024	0.400	0.040	0.464	ΣSAR<1.6, Not required
		Left side	0	0.127	0.400	0.400	0.927	ΣSAR<1.6, Not required

WWAN & WLAN Main

Conditions	Position	SAR Coordinates (cm) ΣSAR (W/kg) Sel	Peak Location Separation	SPLSR	Simultaneous Transmission					
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test	
GPRS 1900	Back side	1.026	10.17	-9.80	-0.03	1.656	12/1 0	0.016	SPLSR<0.04,	
WLAN Main		0.63	9.46	3.66	-0.02	1.030	134.8 0.016		Not required	



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 120 of 377

ΜΜΑΝ & ΜΙ ΔΝ Διιχ

WWAN & W	LAN Au	\							
Conditions	Position	SAR Value	Coo	rdinates	es (cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
GPRS 1900	Back side	1.026	10.17	-9.80	-0.03	2.206	209	1 0 016 1	SPLSR<0.04,
WLAN Aux	Dack Side	1.18	9.24	11.08	0.00	2.200	203	0.010	Not required
у		WV	VAN		Å		Aux		

WLAN Main	& WLAN	l Aux							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.81	74.2	0.033	SPLSR<0.04,
WLAN Aux	Baok oldo	1.18	9.24	11.08	0.00	1.01	74.2	0.000	Not required
					Ma	in	Aux		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 121 of 377

WCDMA Band II + 2.4GHz WLAN MIMO

<u></u>	TODMA BUILD IT 2.TOTIZ TEAT MINIO												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR					
		Back side	0	1.093	0.630	1.180	2.903	Analyzed as below					
3	WCDMA	Top side	0	0.744	0.150	0.360	1.254	ΣSAR<1.6, Not required					
	B2	Right side	0	0.034	0.400	0.040	0.474	ΣSAR<1.6, Not required					
		Left side	0	0.185	0.400	0.400	0.985	ΣSAR<1.6, Not required					

WWAN & WLAN Main

	Conditions Posi	Position	SAR Value	Coo	rdinates	inates (cm)		Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
	WCDMA B2	Back side	1.093	9.87	-9.82	-0.01	1.723	134.9	0.017	SPLSR<0.04,
	WLAN Main	Daok side	0.63	9.46	3.66	-0.02	1.725	104.9	0.017	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 122 of 377

WWAN & W	LAIN AUX	L							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(VV/Ng)	Distance (mm)		SAR Test
WCDMA B2	Back side	1.093	9.87	-9.82	-0.01	2.273	209.1	0.016	SPLSR<0.04,
WLAN Aux	Dack Side	1.18	9.24	11.08	0.00	2.273	209.1	0.010	Not required
0		W	WAN		1		Aux		

VALLANT Main 8 VALLANT AND ALIX

WLAN Main	LAN Main & WLAN Aux												
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	x	у	Z	(W/Ng)	Distance (mm)		SAR Test				
WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.81	74.2	0.033	SPLSR<0.04,				
WLAN Aux	Dack side	1.18	9.24	11.08	0.00	1.01	74.2	0.000	Not required				
					-								
1					Ma	in	Aux						



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 123 of 377

WCDMA Band IV + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR			
		Back side	0	1.079	0.630	1.180	2.889	Analyzed as below			
4	WCDMA	Top side	0	0.470	0.150	0.360	0.980	ΣSAR<1.6, Not required			
4	B4	Right side	0	0.021	0.400	0.040	0.461	ΣSAR<1.6, Not required			
		Left side	0	0.182	0.400	0.400	0.982	ΣSAR<1.6, Not required			

WWAN & WLAN Main

Conditions F	Position	SAR Value	ue			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B4	Back side	1.079	9.39	-9.03	-0.08	1.709	126.9	0.018	SPLSR<0.04,
WLAN Main	Dack Side	0.63	9.46	3.66	-0.02	1.703	120.9	0.010	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 124 of 377

ΜΛΛΛΙ & ΜΙΙ ΔΝΙ ΔΙΙΧ

WWAN & W	LAN AUX									
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR		
		(W/kg)	х	У	Z	(W/Kg)	Distance (mm)		SAR Test	
WCDMA B4	Back side	1.079	9.39	-9.03	-0.08	2.259	201.1	0.017	SPLSR<0.04,	
WLAN Aux	Baok oldo	1.18	9.24	11.08	0.00	2.200	20111	0.011	Not required	
A	WWAN					Aux				
10					A					
						-				
Vi I										

MILANI Maio 9 MILANI ALIX

WLAN Main	LAN Main & WLAN Aux											
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	Х	(VV/Kg) D		Distance (mm)		SAR Test				
WLAN Main	Daali aida	0.63	9.46	3.66	-0.02	1.81	74.2	0.033	SPLSR<0.04,			
WLAN Aux	Back side		9.24	11.08	0.00	1.01	74.2	0.000	Not required			



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 125 of 377

WCDMA Band V + 2.4GHz WLAN MIMO

	NODINA BUILD VI 2.TOTIZ WEAK IMMO												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR					
		Back side	0	1.133	0.630	1.180	2.943	Analyzed as below					
5	WCDMA	Top side	0	0.644	0.150	0.360	1.154	ΣSAR<1.6, Not required					
3	B5	Right side	0	0.012	0.400	0.040	0.452	ΣSAR<1.6, Not required					
		Left side	0	0.342	0.400	0.400	1.142	ΣSAR<1.6, Not required					

١	WWAN & WLAN Main											
	Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
			(W/kg)	Х	у	Z	(VV/Kg)	Distance (mm)		SAR Test		
	WCDMA B5	Back side	1.133	9.85	-8.16	-0.11	1.763	118.3	0.020	SPLSR<0.04,		
	WLAN Main	Dack Side	0.63	9.46	3.66	-0.02	1.763	110.3	0.020	Not required		
			WWAN Main									
						1						
							-					

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be

prosecuted to the fullest extent of the law. SGS Taiwan Ltd.



Page: 126 of 377

MANALO MALANA

WWAN & W	LAN AUX	•							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WCDMA B5	Back side	1.133	9.85	-8.16	-0.11	2.313	192.5	0.018	SPLSR<0.04,
WLAN Aux	Baok oldo	1.18	9.24	11.08	0.00	2.010	102.0	0.010	Not required
A		WWA	N			Aux			
10					^				
						=			

WLAN Main & WLAN Aux

VVE/ (IN IVIGILI	ZENT Wall & WENT Aux												
Conditions Pos	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	Х	У	Z	(VV/Kg)	Distance (mm)		SAR Test				
WLAN Main	Da ala alida	0.63	9.46	3.66	-0.02	1.81	74.2	0.033	SPLSR<0.04,				
WLAN Aux	Back side	1.18	9.24	11.08	0.00	1.01	74.2	0.033	Not required				
					1								



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 127 of 377

CDMA BC0 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR				
		Back side	0	1.082	0.630	1.180	2.892	Analyzed as below				
6	BC0	Top side	0	0.737	0.150	0.360	1.247	ΣSAR<1.6, Not required				
	ВСО	Right side	0	0.026	0.400	0.040	0.466	ΣSAR<1.6, Not required				
		Left side	0	0.345	0.400	0.400	1.145	ΣSAR<1.6, Not required				

1	WWAN & W	/WAN & WLAN Main												
	Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
			(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test				
	BC0	Back side	1.082	10.00	-7.86	-0.04	1.712	115.3	0.019	SPLSR<0.04,				
	WLAN Main	Dack side	0.63	9.46	3.66	-0.02	1.712	110.0	0.019	Not required				
				WWAN	V	Ma	nin							

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 128 of 377

ΜΜΑΝ & ΜΙ ΔΝ Διιχ

WWAN & W	LAN AUX								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test
BC0	Back side	1.082	10.00	-7.86	-0.04	2.262	189.6	0.018	SPLSR<0.04,
WLAN Aux	Dack Side	1.18	9.24	11.08	0.00	2.202	103.0	0.010	Not required
		WWA	N			Aux			
				1					
									/

WI AN Main & WI AN Aux

VVE/ (I VIGILI	2714 Main & WE714714X												
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	Х	У	Z	(VV/Kg)	Distance (mm)		SAR Test				
WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.81	74.2	0.033	SPLSR<0.04,				
WLAN Aux	Dack Side	1.18	9.24	11.08	0.00	1.01	74.2	0.033	Not required				



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 129 of 377

CDMA BC1 + 2.4GHz WLAN MIMO

	75 MIN (150 1 1 2.1-10 112 172 / 114 MINING												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR					
		Back side	0	1.175	0.630	1.180	2.985	Analyzed as below					
7	DC1	Top side	0	0.512	0.150	0.360	1.022	ΣSAR<1.6, Not required					
'	BC1	Right side	0	0.016	0.400	0.040	0.456	ΣSAR<1.6, Not required					
		Left side	0	0.243	0.400	0.400	1.043	ΣSAR<1.6, Not required					

WWAN & WLAN Main

Conditions	Position	(\\\/\ka\)		(/kg) Separation		Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
BC1	Back side	1.175	10.02	-9.52	-0.04	1.805	131.9	0.018	SPLSR<0.04,
WLAN Main	Dack Side	0.63	9.46	3.66	-0.02	1.003	131.9	0.016	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 130 of 377

WWAN & W	LAN Aux									
Conditions	Position	Position Value (W/kg) Solution (W/kg) Solution (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission					
		(W/kg)	x	у	Z	(VV/Ng)	Distance (mm)		SAR Test	
BC1	Back side	1.175	10.02	-9.52	-0.04	2.355	206.1	0.018	SPLSR<0.04,	
WLAN Aux	Dack side	1.18	9.24	11.08	0.00	2.000	200.1	0.010	Not required	
A	V	VWAN				Aux				
					^					

WLAN Main	& WLAN	l Aux							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.81	74.2	0.033	SPLSR<0.04,
WLAN Aux	Dack side	1.18	9.24	11.08	0.00	1.01	74.2	0.000	Not required
6					Ma	in	Aux		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 131 of 377

LTE FDD Band II + 2.4GHz WLAN MIMO

_	TE I DD Baild II + 2.40112 WEAR WINNO													
1	No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR					
			Back side	0	1.054	0.630	1.180	2.864	Analyzed as below					
	8	LTE Band	Top side	0	0.675	0.150	0.360	1.185	ΣSAR<1.6, Not required					
	°	2	Right side	0	0.033	0.400	0.040	0.473	ΣSAR<1.6, Not required					
			Left side	0	0.218	0.400	0.400	1.018	ΣSAR<1.6, Not required					

WWAN & WI AN Main

VVVAIN & VV	WAN & WLAN Main											
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test			
LTE B2	Back side	1.054	9.55	-9.65	-0.06	1.684	133.1	0.016	SPLSR<0.04,			
WLAN Main	Dack Side	0.63	9.46	3.66	-0.02	1.004	155.1	0.010	Not required			



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 132 of 377

ΜΜΑΝ & ΜΙ ΔΝ Διιχ

VVVAN & VVLAN AUX										
Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission		
	(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test		
Back side	1.054	9.55	-9.65	-0.06	2 234	207.3	0.016	SPLSR<0.04,		
Buok oldo	1.18	9.24	11.08	0.00	2.201	207.0	0.010	Not required		
A						Aux				
				A				- N		
				-	_					
								7		
								1		
		Position SAR Value (W/kg) Back side 1.18	Position SAR Coo	Position SAR Value (W/kg) Coordinates Back side 1.054 9.55 -9.65 1.18 9.24 11.08	Position SAR Value (W/kg) Coordinates (cm) x y z Back side 1.054 9.55 -9.65 -0.06 1.18 9.24 11.08 0.00	Position SAR Value (W/kg) Coordinates (cm) ΣSAR (W/kg) x y z Back side 1.054 9.55 -9.65 -0.06 1.18 9.24 11.08 0.00	Position SAR Value (W/kg) Coordinates (cm) ΣSAR (W/kg) Peak Location Separation Distance (mm) Back side 1.054 9.55 -9.65 -0.06 2.234 207.3	Position SAR Value (W/kg) Coordinates (cm) ΣSAR (W/kg) Peak Location Separation Distance (mm) SPLSR Back side 1.054 9.55 -9.65 -0.06 2.234 207.3 0.016		

1	WLAN Main	& WLAN	l Aux							
	Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
	WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.81	74.2	0.033	SPLSR<0.04,
	WLAN Aux	Dack Side	1.18	9.24	11.08	0.00	1.01	74.2	0.033	Not required
		1						•		
						Ma A	in	Aux		
						.				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 133 of 377

LTE FDD Band IV + 2.4GHz WLAN MIMO

	TE 1 DD Balla IV + 2.40112 WEAR MINNO													
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR						
		Back side	0	1.057	0.630	1.180	2.867	Analyzed as below						
9	LTE Band	Top side	0	0.502	0.150	0.360	1.012	ΣSAR<1.6, Not required						
9	4	Right side	0	0.023	0.400	0.040	0.463	ΣSAR<1.6, Not required						
		Left side	0	0.202	0.400	0.400	1.002	ΣSAR<1.6, Not required						

1	WWAN & WLAN Main												
	Conditions	Position	SAR Value	Coor	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
			(W/kg)	х	у	z	(W/Ng)	Distance (mm)		SAR Test			
	LTE B4	·Back side	1.057	9.55	-9.03	-0.06	1.687	126.9	0.017	SPLSR<0.04,			
	WLAN Main	Dack side	0.63	9.46	3.66	-0.02	1.007	120.3	0.017	Not required			
			WWAN Ma				ain						

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 134 of 377

VVVVAIN & VV	WWAN & WLAN Aux											
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
LTE B4	Back side	1.057	9.55	-9.03	-0.06	2.237	201.1	0.017	SPLSR<0.04,			
WLAN Aux	Dack Side	1.18	9.24	11.08	0.00	2.201	201.1	0.017	Not required			
6	W	WAN		^		Aux						
					•							

WLAN Main	& WLAN	l Aux							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.81	74.2	0.033	SPLSR<0.04,
WLAN Aux	Dack side	1.18	9.24	11.08	0.00	1.01	74.2	0.000	Not required
6					Ma	in	Aux		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 135 of 377

LTE FDD Band V + 2.4GHz WLAN MIMO

	TE I DD Baild V + 2.40112 WEAR MINNO													
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR						
		Back side	0	1.042	0.630	1.180	2.852	Analyzed as below						
10	LTE Band	Top side	0	0.653	0.150	0.360	1.163	ΣSAR<1.6, Not required						
	5	Right side	0	0.29	0.400	0.040	0.73	ΣSAR<1.6, Not required						
		Left side	0	0.338	0.400	0.400	1.138	ΣSAR<1.6, Not required						

WWAN & WLAN Main

 777/114 Q 77E/114 Main												
Conditions	Position SAR		Cooi	rdinates	(cm)	ΣSAR (M/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test			
LTE B5	Dook side	1.042	9.85	-8.74	-0.11	1.672	124.1	0.017	SPLSR<0.04,			
WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.072	124.1	0.017	Not required			
								100				



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 136 of 377

WWAN & WI AN Aux

VVVAIVQVV	VVVAN & VVLAN AUX											
Conditions	Position	SAR Value (W/kg)	25/		ΣSAR (W/kg)	Peak Location Separation	SPLSR					
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
LTE B5	Back side	1.042	9.85	-8.74	-0.11	2.222	198.3	0.017	SPLSR<0.04,			
WLAN Aux	Dack Side	1.18	9.24	11.08	0.00	2.222	130.3	0.017	Not required			
6		V	VWAN		1		Aux					

1	WLAN Main	& WLAN	l Aux							
	Conditions	Position	SAR Value	Coo	rdinates	(cm) ΣSAR (W/kg)		Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
	WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.81	74.2	0.033	SPLSR<0.04,
	WLAN Aux	Baok oldo	1.18	9.24	11.08	0.00	1.01	74.2	0.000	Not required
						Ma	in	Aux		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 137 of 377

LTE FDD Band VII + 2.4GHz WLAN MIMO

	IE I DD Band VII I 2.40112 WEAR IMINO													
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR						
		Back side	0	1.083	0.630	1.180	2.893	Analyzed as below						
11	LTE Band	Top side	0	0.766	0.150	0.360	1.276	ΣSAR<1.6, Not required						
' '	7 7	Right side	0	0.037	0.400	0.040	0.477	ΣSAR<1.6, Not required						
		Left side	0	0.606	0.400	0.400	1.406	ΣSAR<1.6, Not required						

WWAN & W	LAN Mai	n							
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(***, Kg)	Distance (mm)		SAR Test
LTE B7	Rack side	1.083	9.58	-5.46	-0.04	1.713	91.2	0.025	SPLSR<0.04,
WLAN Main	Back side -	0.63	9.46	3.66	-0.02	1.713	31.2	0.025	Not required
6			W	WAN	M	ain			



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 138 of 377

WWAN & WI AN Aux

VVVAINCEVV	VVVAN & VVLAN AUX											
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
LTE B7	Back side	1.083	9.58	-5.46	-0.04	2.263	165.4	0.021	SPLSR<0.04,			
WLAN Aux	Dack side	1.18	9.24	11.08	0.00	2.200	100.4	0.021	Not required			
6			W	WAN	<u> </u>		Aux					

VALLANT Main 9 VALLANT AND ALIX

WLAN Main	VLAN Main & WLAN Aux												
Conditions	Conditions Position		Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	х	У	Z	(VV/Ng)	Distance (mm)		SAR Test				
WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.81	74.2	0.033	SPLSR<0.04,				
WLAN Aux	Back side	1.18	9.24	11.08	0.00	1.01	74.2	0.033	Not required				
1							10						
				Ma	in	Aux							



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 139 of 377

LTE FDD Band XII + 2.4GHz WLAN MIMO

	12 1 DD Band XII 1 2.40112 WEAR MINIO													
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR						
		Back side	0	1.124	0.630	1.180	2.934	Analyzed as below						
12	LTE Band	Top side	0	0.473	0.150	0.360	0.983	ΣSAR<1.6, Not required						
12	12	Right side	0	0.022	0.400	0.040	0.462	ΣSAR<1.6, Not required						
		Left side	0	0.211	0.400	0.400	1.011	ΣSAR<1.6, Not required						

WWAN & WLAN Main										
Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test	
LTE B12	Back side	1.124	10.31	-7.39	-0.07	1.754	110.8	0.021	SPLSR<0.04,	
WLAN Main	Dack side	0.63	9.46	3.66	-0.02	1.704	3.0	0.021	Not required	
WWAN Main										

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



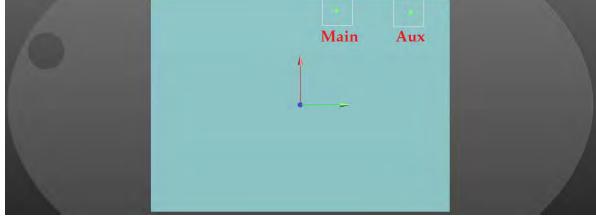
Page: 140 of 377

WWAN & WI AN Aux

VVVVAIN & VV	LAN Aux	\							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B12	Back side	1.124	10.31	-7.39	-0.07	2.304	185	0.019	SPLSR<0.04, Not required
WLAN Aux	Dack Side	1.18	9.24	11.08	0.00	2.504	185	0.019	
WWAN							Aux		

WI AN Main & WI AN Aux

VVLAIN IVIAIII	Q VVLAI	N Aux							
Conditions	Position	SAR Value	Coo	Coordinates (ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.63	9.46	3.66	-0.02	1 01	74.2	0.033	SPLSR<0.04,
WLAN Aux		1.18	9.24	11.08	0.00	1.81	74.2	0.033	Not required
					-				
					Ma	in	Aux		



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

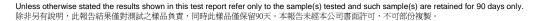


Page: 141 of 377

LTE FDD Band XIII + 2.4GHz WLAN MIMO

	LIE I DD Build Alli I Z.FOIIZ WEAR MINIO											
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR				
		Back side	0	1.069	0.630	1.180	2.879	Analyzed as below				
13	LTE Band	Top side	0	0.743	0.150	0.360	1.253	ΣSAR<1.6, Not required				
	13	Right side	0	0.03	0.400	0.040	0.47	ΣSAR<1.6, Not required				
		Left side	0	0.287	0.400	0.400	1.087	Analyzed as below ΣSAR<1.6, Not required ΣSAR<1.6,				

WWAN & W	WWAN & WLAN Main											
Conditions	SAR Position Value		Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
LTE B13	Back side	1.069	10.16	-7.54	-0.07	1.699	112.2	0.020	SPLSR<0.04,			
WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.099	112.2	0.020	Not required			
							_					
				_								
			WWAI	N	Ma	in						
					1				A			



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 142 of 377

WWAN & WLAN Aux

WWAN & W	LAN AUX	(
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test
LTE B13	Back side	1.069	10.16	-7.54	-0.07	2.249	186.4	0.018	SPLSR<0.04,
WLAN Aux	Dack Side	1.18	9.24	11.08	0.00	2.243		0.010	Not required
WWAN							Aux		

WLAN Main & WLAN Aux

VVLAIN IVIAIII	LAN WAIII & WLAN Aux											
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.81	74.2	0.033	SPLSR<0.04,			
WLAN Aux		1.18	9.24	11.08	0.00	1.81	74.2	0.033	Not required			
1												
					Ma	in	Aux					



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 143 of 377

LTE FDD Band XVII + 2.4GHz WLAN MIMO

	I DD Dai	14 / 11 1 2		· · · · · · · · · · · · · · · · · · ·				
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.059	0.630	1.180	2.869	Analyzed as below
14	LTE Band	Top side	0	0.533	0.150	0.360	1.043	ΣSAR<1.6, Not required
14	17	Right side	0	0.017	0.400	0.040	0.457	ΣSAR<1.6, Not required
		Left side	0	0.216	0.400	0.400	1.016	ΣSAR<1.6, Not required

WWAN & W	<u>/LAN Ma</u>	in							
Conditions Position	Position	SAR Value	Cooi	Coordinates (cm)			Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	×	у	z	(W/kg)	Distance (mm)		SAR Test
LTE B17	·Back side	1.059	10.47	-6.91	-0.08	1.689	106.2	0.021	SPLSR<0.04,
WLAN Main		0.63	9.46	3.66	-0.02	1.009		0.021	Not required
- 4	WWA	N	Ma	in					



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 144 of 377

WWAN & WLAN Aux

VVVVAIV & VV	L/ \ \ / \\ \/								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B17	Back side	1.059	10.47	-6.91	-0.08	2.239	180.3	0.019	SPLSR<0.04,
WLAN Aux	Dack Side	1.18	9.24	11.08	0.00	2.239	180.3	0.019	Not required
WWAN						-	Aux		

WLAN Main	& WLAN	l Aux							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)			Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.81	74.2	0.033	SPLSR<0.04,
WLAN Aux	Dack side	1.18	9.24	11.08	0.00	1.01	77.2	0.033	Not required
0					Ma	in	Aux		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 145 of 377

GPRS 850 + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.085	0.608	1.067	2.76	Analyzed as below
15	GPRS 850	Top side	0	0.486	0.610	1.140	2.236	Analyzed as below
13	15 GPRS 850	Right side	0	0.011	0.400	0.110	0.521	ΣSAR<1.6, Not required
		Left side	0	0.087	0.400	0.400	0.887	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 146 of 377

WWAN & WI AN Main

VVVVAIN & VV	LAIN IVIA								
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х			Distance (mm)		SAR Test	
GPRS 850	Back side	1.085	9.85	-8.89	-0.11	1.693	129.7	0.017	SPLSR<0.04,
WLAN Main	Dack side	0.608	8.90	4.04	-0.01	1.055	123.7	0.017	Not required
6		V	VWAN	ı	M	lain			

Conditions Position		SAR Value	e			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
GPRS 850	Top side	0.486	-0.45	-6.80	-0.27	1.096	107	0.011	SPLSR<0.04,
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.000	107	0.011	Not required
					4				
		-	_						
	_	_	+	-	•	-		_	
		4							

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

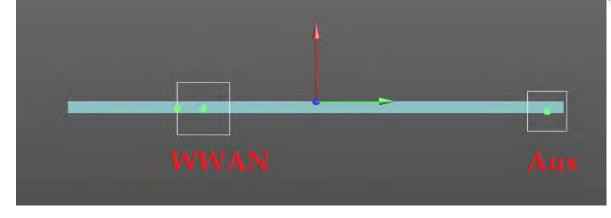


Page: 147 of 377

WWAN & WI AN Aux

VVVV	IIV & VV	LAIN AUX	<u> </u>							
Con	ditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
GPR	RS 850	Back side	1.085	9.85	-8.89	-0.11	2.152	206.6	0.015	SPLSR<0.04,
WLA	AN Aux	Back side	1.067	9.40	11.76	0.04	2.102	200.0	0.010	Not required
			W	WAN		1		Aux		

Conditions	Conditions Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
GPRS 850	Top side	0.486	-0.45	-6.80	-0.27	1.626	208	0.010	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.020	200	0.010	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 148 of 377

WLAN Main & WLAN Aux

WLAN Main	X VVLAI	NAUX							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	1.073	77.4	0.020	Not required
6					N	Main	Aux		

Conditions	Position	SAR Value	Coo	Coordinates (cm)			Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.73	101.5	0.023	Not required
					Λ.				
-	_	_				•			
						Mai			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 149 of 377

GPRS 1900 + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.026	0.608	1.067	2.701	Analyzed as below
16	GPRS	Top side	0	0.465	0.610	1.140	2.215	Analyzed as below
10	1900	Right side	0	0.024	0.400	0.110	0.534	ΣSAR<1.6, Not required
		Left side	0	0.127	0.400	0.400	0.927	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



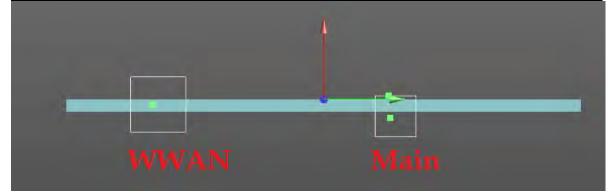
Page: 150 of 377

WWAN & WLAN Main

Conditions Pos	Position	SAR Value	Cooi	rdinates	(cm)	ΣSAR - (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission				
		(W/kg)	x	у	Z				SAR Test				
GPRS 1900	Back side	1.026	10.17	-9.80	-0.03	1.634	139	0.015	SPLSR<0.04,				
WLAN Main	Dack Side	0.608	8.90	4.04	-0.01	1.034	139	0.013	Not required				



Conditions	Position	SAR Value	Coordinates (cm)		(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
GPRS 1900	Top side	0.465	-0.30	-9.97	-0.18	1.075	138.7	0.008	SPLSR<0.04,
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.075	130.7	0.008	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 151 of 377

ΜΜΑΝ & ΜΙ ΔΝ Διιχ

WWAN & W	LAIN AUA	\							
Conditions	Position	SAR Value	Value			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test
GPRS 1900	Back side	1.026	10.17	-9.80	-0.03	2.093	215.7	0.014	SPLSR<0.04,
WLAN Aux	Back side	1.067	9.40	11.76	0.04	2.000	210.7	0.014	Not required
6		W	WAN		<u> </u>		Aux		

-									
Conditions	Position	SAR Value (W/ka)	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
GPRS 1900	Top side	0.465	-0.30	-9.97	-0.18	1.605	239.7	0.008	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.003	200.1	0.000	Not required
					1				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 152 of 377

WLAN Main	& WLAN	N Aux								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test	
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04,	
WLAN Aux	Back side	1.067	9.40	11.76	0.04	1.070	77.4	0.020	Not required	
6					N	Main	Aux			

Conditions			Coo	rdinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.70	101.0	0.020	Not required
					A				
_									
						-			
		700 / 100 377 - 35	77 Y	// // // 'Y : Y/			V V V V		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 153 of 377

WCDMA Band II + 5GHz WLAN MIMO

	No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
Ī			Back side	0	1.093	0.608	1.067	2.768	Analyzed as below
	17 WCDMA B2	WCDMA	Top side	0	0.744	0.610	1.140	2.494	Analyzed as below
		B2	Right side	0	0.034	0.400	0.110	0.544	ΣSAR<1.6, Not required
			Left side	0	0.185	0.400	0.400	0.985	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



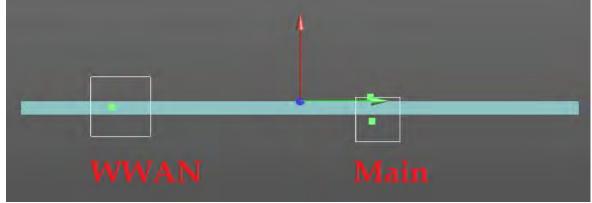
Page: 154 of 377

WWAN & WLAN Main

Conditions	Position	SAR Value	(\\\/\kappa_{\k			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B2	Back side	1.093	9.87	-9.82	-0.01	1.701	138.9	0.016	SPLSR<0.04,
WLAN Main	Dack Side	0.608	8.90	4.04	-0.01	1.701	130.9	0.010	Not required
		1	-						



Conditions Position	Position	SAR Value	Cod	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(W/kg)	Distance (mm)		SAR Test
WCDMA B2	Top side	0.744	-0.30	-10.13	-0.20	1.354	140.3	0.011	SPLSR<0.04,
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.334	140.3	0.011	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 155 of 377

WWAN & WLAN Aux

WWAN &	/VLAIN AUX	<u> </u>							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B2	Back side	1.093	9.87	-9.82	-0.01	2.16	215.9	0.015	SPLSR<0.04,
WLAN Aux		1.067	9.40	11.76	0.04	2.10	210.3	0.013	Not required
0		W	WAN		1	-	Aux		

Conditions			Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WCDMA B2	Top side	0.744	-0.30	-10.13	-0.20	1.884	241.3	0.011	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.004	241.3	0.011	Not required
	ww	AN							Aux

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 156 of 377

MILANI Main 9 MILANI Aux

WLAN Main	& WLAN	N Aux							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Ng)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04,
WLAN Aux	Dack side	1.067	9.40	11.76	0.04	1.075	77.4	0.020	Not required
					N	I ain	Aux		

Conditions	Conditions Position		Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.75	101.5	0.023	Not required
					À				
						•			
W W W W W			// // V/ V/	// // // // // // // // // // // // //	, 100 m				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 157 of 377

WCDMA Band IV + 5GHz WLAN MIMO

1	No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
			Back side	0	1.079	0.608	1.067	2.754	Analyzed as below
	18 WCDMA B4	WCDMA	Top side	0	0.470	0.610	1.140	2.220	Analyzed as below
				0.021	0.400	0.110	0.531	ΣSAR<1.6, Not required	
			Left side	0	0.182	0.400	0.400	0.982	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

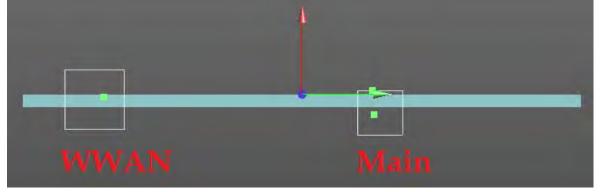
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 158 of 377

WWAN & W	LAN Mai	n							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	х	у	Z	(W/Ng)	Distance (mm)		SAR Test
WCDMA B4	Back side	1.079	9.39	-9.03	-0.08	1.687	130.8	0.017	SPLSR<0.04,
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.007	100.0	0.017	Not required
			£ .						
		WWAN Main							
					A				
					•	_			

Conditions Position		SAR Value	Coordinates (cm)		ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B4	Top side	0.47	-0.14	-10.67	-0.18	1.08	145.8	0.008	SPLSR<0.04,
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.00	170.0	0.000	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 159 of 377

WWAN & WLAN Aux

VVVVAIV & VV	/VVVAN & VVLAN AUX											
Conditions	Position	SAR Coordinates (cm) Value (W/kg)				ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Ng)	Distance (mm)		SAR Test			
WCDMA B4	Back side	1.079	9.39	-9.03	-0.08	2.146	207.9	0.015	SPLSR<0.04,			
WLAN Aux	Back side	1.067	9.40	11.76	0.04	2.140	207.0	0.010	Not required			
6		W	WAN		1		Aux					

Conditions	Position	SAR Value	Coordinates (cm)		ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WCDMA B4	Top side	0.47	-0.14	-10.67	-0.18	1.61	246.7	0.008	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.01	240.7	0.000	Not required
				A					
				_					
W	WAI							Aux	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com



Page: 160 of 377

WLAN Main & WLAN Aux

WLAN Main	X WLAI	NAUX							
Conditions	Conditions Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	х	у	Z	(W/Ng)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	1.073	77.4	0.020	Not required
6					N A	Iain	Aux		

									
Conditions	ns Position V	SAR Coordinates (c		(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.75	101.5	0.023	Not required
					4				
-									
-						-			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_endocuments.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

documents, subject to Terms and Conductors for Electronic Documents at www.sgs.com/erins_e-occument.ntm. And this document is advised that information contained hereon reflects the Company's finings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 161 of 377

WCDMA Band V + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.133	0.608	1.067	2.808	Analyzed as below
19	WCDMA	Top side	0	0.644	0.610	1.140	2.394	Analyzed as below
19	B5	Right side	0	0.012	0.400	0.110	0.522	ΣSAR<1.6, Not required
		Left side	0	0.342	0.400	0.400	1.142	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



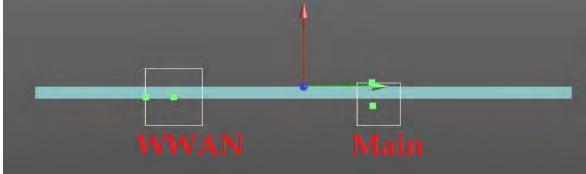
Page: 162 of 377

WWAN & WLAN Main

Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у			Distance (mm)		SAR Test
WCDMA B5	Da ala aida	1.133	9.85	-8.16	-0.11	1.741	122.4	0.019	SPLSR<0.04,
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.741	122.4	0.019	Not required
	-	/					-		



Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WCDMA B5	Top side	0.644	-0.60	-7.25	-0.27	1.254	111.4	0.013	SPLSR<0.04,
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.204	111.4	0.013	Not required
					A				



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

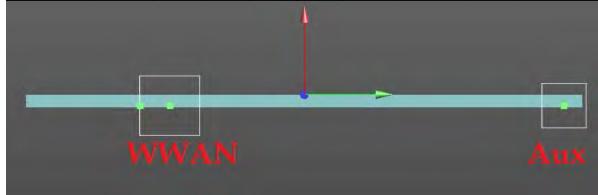
SGS Taiwan Ltd.



Page: 163 of 377

1	WWAN & W	VWAN & WLAN Aux												
	Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
			(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test				
	WCDMA B5	Back side	1.133	9.85	-8.16	-0.11	2.2	199.3	0.016	SPLSR<0.04,				
	WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	2.2	199.5	0.010	Not required				
		N	1		Aux									

Conditions Po	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B5	Top side	0.644	-0.60	-7.25	-0.27	1.784	212.5	0.011	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.704	212.0	0.011	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 164 of 377

WLAN Main & WLAN Aux

WLAN Main	& WLAN	N AUX							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	1.075	77.4	0.020	Not required
					N	fain	Aux		

									
Conditions	ns Position V	SAR Coordinates (c		(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.75	101.5	0.023	Not required
					4				
-									
-						-			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 165 of 377

CDMA BC0 + 5GHz WLAN MIMO

		• • · · · ·						
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.082	0.608	1.067	2.757	Analyzed as below
20	BC0	Top side	0	0.737	0.610	1.140	2.487	Analyzed as below
20	ВСО	Right side	0	0.026	0.400	0.110	0.536	ΣSAR<1.6, Not required
		Left side	0	0.345	0.400	0.400	1.145	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

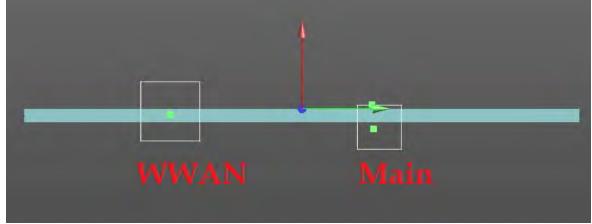
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 166 of 377

WWAN & W	<u>LAN Ma</u>	in						_	
Conditions	Position	SAR Value	Cooi	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	×	у	Z	(W/Kg)	Distance (mm)		SAR Test
BC0	Back side	1.082	10.00	-7.86	-0.04	1.69	119.5	0.018	SPLSR<0.04,
WLAN Main	Dack side	0.608	8.90	4.04	-0.01	1.03	119.5	0.010	Not required
6			WWAN	J	M	ain			

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
BC0	Top side	0.737	-0.31	-7.10	-0.27	1.347	110.1	0.014	SPLSR<0.04,
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.547	110.1	0.014	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 167 of 377

MANALO MALANA

WWAN & W	LAN AUX	•							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	x	у	Z	(VV/Ng)	Distance (mm)		SAR Test
BC0	Back side	1.082	10.00	-7.86	-0.04	2.149	196.3	0.016	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	2.143	130.3	0.010	Not required
6			WWA	N	1		Aux		

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
BC0	Top side	0.737	-0.31	-7.10	-0.27	1.877	211	0.012	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.077	211	0.012	Not required
					1				
				_	<u></u>				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 168 of 377

WLAN Main & WLAN Aux

WLAN Main	& WLAN	N AUX							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	1.073	77.4	0.020	Not required
					N	fain	Aux		

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	z (VV/Kg)		Distance (mm)		SAR Test
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.75	101.5	0.023	Not required
					Λ				
						•			
W W W W W			// // V/ V/	V	- 100 V				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 169 of 377

CDMA BC1 + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.175	0.608	1.067	2.85	Analyzed as below
21	BC1	Top side	0	0.512	0.610	1.140	2.262	Analyzed as below
21	BCT	Right side	0	0.016	0.400	0.110	0.526	ΣSAR<1.6, Not required
		Left side	0	0.243	0.400	0.400	1.043	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

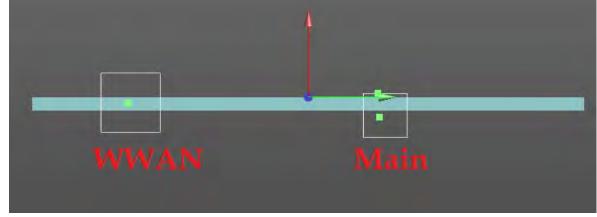


Page: 170 of 377

WWAN & WI AN Main

WWWAN & W	LAIN IVIA	111							
Conditions	Position	SAR Coordinate Value (W/kg)			ates (cm) ΣSAR (W/kg)		Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(VV/Rg)	Distance (mm)		SAR Test
BC1	Back side	1.175	10.02	-9.52	-0.04	1.783	136.1	0.017	SPLSR<0.04,
WLAN Main	Dack Side	0.608	8.90	4.04	-0.01	1.703	130.1	0.017	Not required
0		V	VWAN		1	Main			

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
BC1	Top side	0.512	-0.30	-9.81	-0.18	1.122	137.1	0.009	SPLSR<0.04,
WLAN Main	AN Main Top side		-1.08	3.88	-0.16	1.122	137.1	0.009	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 171 of 377

MANALO MALANA

Conditions Position Value (W/kg) x y z Separation Distance (mm) SPLSR Transmission SAR Test	WW/	<u> AN & W</u>	LAN Aux	(
BC1 Back side 1.175 10.02 -9.52 -0.04 ULAN Aux Back side 1.067 9.40 11.76 0.04 2.242 212.9 0.016 SPLSR<0.04 Not required	Cor	nditions	Position	Value				Location	SPLSR	Simultaneous Transmission	
WLAN Aux Back side 1.067 9.40 11.76 0.04 2.242 212.9 0.016 SPLSR<0.02 Not required				(W/kg)	х	у	Z	(vv/kg)			SAR Test
WLAN Aux 1.067 9.40 11.76 0.04 Not required		BC1	Back side		10.02	-9.52	-0.04	2 242	212.9	0.016	SPLSR<0.04,
WWAN Aux	WL	AN Aux	Daux Sido		9.40	11.76	0.04	2.272	212.0	0.010	Not required
				W	<i>I</i> WAN				Aux		

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
BC1	Top side	0.512	-0.30	-9.81	-0.18	1.652	238.1	0.009	SPLSR<0.04,
WLAN Aux	Top dido	1.14	-0.60	14.00	-0.10	1.002	200.1	0.000	Not required
					1				
						ia.			
			-					_	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 172 of 377

MILANI Main & MILANI ALIX

WLAN Main	& WLAN	Aux							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	1.073	77.4	0.020	Not required
6					N	Tain	Aux		

									
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	W/kg) x y z `		(W/Kg)	Distance (mm)		SAR Test	
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.75	101.5	0.023	Not required
					4				
-									
-						-			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 173 of 377

LTE FDD Band II + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.054	0.608	1.067	2.729	Analyzed as below
22	LTE Band	Top side	0	0.675	0.610	1.140	2.425	Analyzed as below
22	2	Right side	0	0.033	0.400	0.110	0.543	ΣSAR<1.6, Not required
		Left side	0	0.218	0.400	0.400	1.018	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

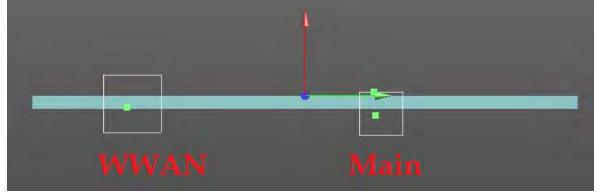


Page: 174 of 377

WWAN & WI AN Main

VVVVAIN & VV	LAN Mai								
Conditions	Conditions Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B2	Back side	1.054	9.55	-9.65	-0.06	1.662	137.1	0.016	SPLSR<0.04,
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.002	107.1	0.010	Not required
						0			
0			WAN		N	Iain			
									- 1
					-				7
									1/4

Conditions			Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
LTE B2	Top side	0.675	-0.61	-9.82	-0.15	1.285	137.1	0.011	SPLSR<0.04,
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.203	137.1	0.011	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 175 of 377

WWAN & WLAN Aux

WWAN & W	LAN AUX	(
Conditions	Position	SAR Value	Coo	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B2	-Back side	1.054	9.55	-9.65	-0.06	2.121	214.1	0.014	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	2.121	214.1	0.014	Not required
0		WI	WAN				Aux		

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B2	Top side	0.675	-0.61	-9.82	-0.15	1.815	238.2	0.010	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.010	200.2	0.010	Not required
					1				
				_	Į.				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 176 of 377

MILANI Main & MILANI ALIX

WLAN Main	& VVLAI	N Aux							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04,
WLAN Aux	Back side	1.067	9.40	11.76	0.04	1.070	77.4	0.020	Not required
					N	fain	Aux		

		SAR	Coo	rdinates	(cm)	7040	Peak Location		Simultaneous
Conditions	Position	Value (W/kg)	х	у	Z	ΣSAR (W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.75	101.3	0.023	Not required
					A.				
_						-			
						•			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 177 of 377

LTE FDD Band IV + 5GHz WLAN MIMO

N	lo. (Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
			Back side	0	1.057	0.608	1.067	2.732	Analyzed as below
	23	LTE Band	Top side	0	0.502	0.610	1.140	2.252	Analyzed as below
_	.5	4	Right side	0	0.023	0.400	0.110	0.533	ΣSAR<1.6, Not required
			Left side	0	0.202	0.400	0.400	1.002	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

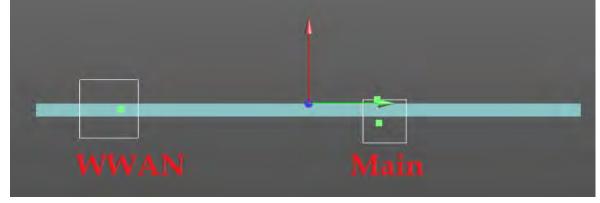
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 178 of 377

WWAN & W	LAN Mai	in							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	kg) x y		Z	(VV/Kg)	Distance (mm)		SAR Test
LTE B4	Back side	1.057	9.55	-9.03	-0.06	1.665	130.9	0.016	SPLSR<0.04,
WLAN Main	Dack Side	0.608	8.90	4.04	-0.01	1.003	130.3	0.010	Not required
0		W	WAN		N.	fain			

Conditions			Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B4	Top side	0.502	-0.30	-10.36	-0.13	1.112	142.6	0.008	SPLSR<0.04,
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.112	142.0	0.008	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 179 of 377

ΜΜΑΝ & ΜΙ ΔΝ Διιχ

WWWAN & W		L							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B4	Back side	1.057	9.55	-9.03	-0.06	2.124	207.9	0.015	SPLSR<0.04,
WLAN Aux	Dack side	1.067	9.40	11.76	0.04	2.124	201.5	0.013	Not required
6		V	VWAN	1	4		Aux		

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	У	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B4	Top side	0.502	-0.30	-10.36	-0.13	1.642	243.6	0.009	SPLSR<0.04, Not required
WLAN Aux		1.14	-0.60	14.00	-0.10				
WWAN									Aux

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 180 of 377

MILANI Main 9 MILANI Aux

WLAN Main	& WLAN	N AUX							
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04, Not required
WLAN Aux	Back side	1.067	9.40	11.76	0.04				
6					N	Main	Aux		

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Separation Distance (mm) SPLSR Transmissio SAR Test	Simultaneous Transmission	
			Х	у	Z	(vv/kg)			SAR Test
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04, Not required
WLAN Aux		1.14	-0.60	14.00	-0.10				
					À				
						•			
			V 1						

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 181 of 377

LTE FDD Band V + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.042	0.608	1.067	2.717	Analyzed as below
24	LTE Band	Top side	0	0.653	0.610	1.140	2.403	Analyzed as below
24	5	Right side	0	0.29	0.400	0.110	0.8	ΣSAR<1.6, Not required
		Left side	0	0.338	0.400	0.400	1.138	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

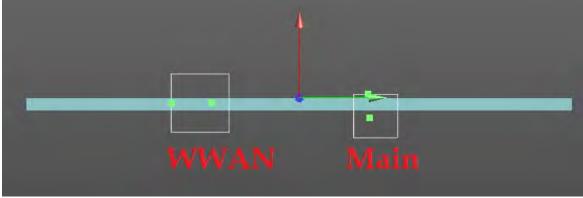
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 182 of 377

1	WWAN & W	LAN Mai	in							
	Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
	LTE B5	Back side	1.042	9.85	-8.74	-0.11	1.65	128.2	0.017	SPLSR<0.04,
	WLAN Main	Dack Side	0.608	8.90	4.04	-0.01	1.00	120.2	0.017	Not required
			V	VWAN	1	Î.	Main			

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	X	у	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B5	Top side	0.653	-0.30	-7.05	-0.27	1.263	109.6	0.013	SPLSR<0.04,
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.203	109.0	0.013	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



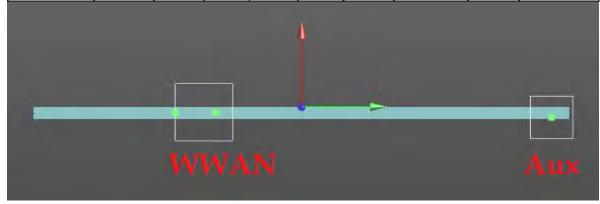
Page: 183 of 377

WWAN & WLAN Aux

VVVVAIN & VV		`							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B5	Back side	1.042	9.85	-8.74	-0.11	2.109	205.1	0.015	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	2.109	203.1	0.013	Not required
			180						
		TA	TATA DI				A		



Conditions	Position	SAR Value	Coo	Coordinates (cm)			Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B5	Top side	0.653	-0.30	-7.05	-0.27	1.793	210.5	0.011	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.793	210.5	0.011	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_end_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this onlineful.

be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsi prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku Dist



Page: 184 of 377

WLAN Main & WLAN Aux

WLAN Main	X WLAI	ı Aux							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Ng)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	1.073	77.4	0.020	Not required
6					N	Iain	Aux		

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.75	101.5	0.023	Not required
					À				
						•			
		703 V		V2 V2	743 74			V 10 V 10	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

t (886-2) 2299-3279 f (886-2) 2298-0488



Page: 185 of 377

LTE FDD Band VII + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.083	0.608	1.067	2.758	Analyzed as below
25	LTE Band	Top side	0	0.766	0.610	1.140	2.516	Analyzed as below
25	7	Right side	0	0.037	0.400	0.110	0.547	ΣSAR<1.6, Not required
		Left side	0	0.606	0.400	0.400	1.406	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

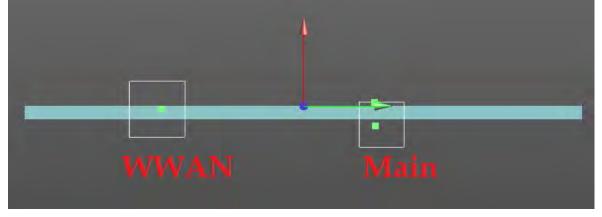
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 186 of 377

WWAN & W	LAIN IVIA	111							
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B7	Back side	1.083	9.58	-5.46	-0.04	1.691	95.2	0.023	SPLSR<0.04,
WLAN Main	Buok oldo	0.608	8.90	4.04	-0.01	1.001	00.2	0.020	Not required
6			WV	VAN	M	lain			

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)			SAR Test
LTE B7	Top side	0.766	-0.18	-7.68	-0.18	1.376	115.9	0.014	SPLSR<0.04,
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.370	113.9	0.014	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 187 of 377

WWAN & WI AN Aux

VVVVAIN & VV	LAN Aux	\				_			
Conditions	Position	value		ΣSAR (W/kg)	Peak Location Separation	SPLSR			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B7	Back side	1.083	9.58	-5.46	-0.04	2.15	172.2	0.018	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	2.10	172.2	0.010	Not required
6			W	VAN	^		Aux		

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B7	Top side	0.766	-0.18	-7.68	-0.18	1.906	216.8	0.012	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.900	210.0	0.012	Not required
					1				
					Ĭ				
	_	_		_	-		_	_	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 188 of 377

MILANI Main 9 MILANI Aux

WLAN Main	& WLAN	N AUX							
Conditions	ditions Position		Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04,
WLAN Aux	Dack side	1.067	9.40	11.76	0.04	1.073	77.4	0.020	Not required
0					N	Iain	Aux		

Conditions	Position SAR Value (W/kg)		Coo	rdinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.70	101.0	0.020	Not required
					A				
_									
						-			
		700 / 100 377 - 35	77 Y	// // // */ */			V V V V		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 189 of 377

LTE FDD Band XII + 5GHz WLAN MIMO

No	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.124	0.608	1.067	2.799	Analyzed as below
26	LTE Band	Top side	0	0.473	0.610	1.140	2.223	Analyzed as below
20	12	Right side	0	0.022	0.400	0.110	0.532	ΣSAR<1.6, Not required
		Left side	0	0.211	0.400	0.400	1.011	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 190 of 377

WWAN & WLAN Main

Conditions Po	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B12	Back side	1.124	10.31	-7.39	-0.07	1.732	115.2	0.020	SPLSR<0.04,
WLAN Main	Dack side	0.608	8.90	4.04	-0.01	1.732	110.2	0.020	Not required



Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B12	Top side	0.473	-0.30	-5.15	-0.28	1.083	90.6	0.012	SPLSR<0.04,
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.003	90.0	0.012	Not required
		W	W	LΝ	1	M	ain		_

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 191 of 377

WWAN & WI AN Aux

VV VVAIN & VV	LAIN AUX	١							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	х	у	Z	(W/Ng)	Distance (mm)		SAR Test
LTE B12	Back side	1.124	10.31	-7.39	-0.07	2.191	191.7	0.017	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	2.131	131.7	0.017	Not required
6			WWA	ıN	<u> </u>		Aux		

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B12	Top side	0.473	-0.30	-5.15	-0.28	1.613	191.5	0.011	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.010	101.0	0.011	Not required
					L				
_	-			_		_>	-	-	-
WWAN									

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 192 of 377

WI AN Main & WI AN Aux

WLAN Main	X VVLAI	NAUX							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Ng)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	1.073	77.4	0.020	Not required
6					N	Iain	Aux		

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.75	101.5	0.023	Not required
					A				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 193 of 377

LTE FDD Band XIII + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.069	0.608	1.067	2.744	Analyzed as below
27	LTE Band	Top side	0	0.743	0.610	1.140	2.493	Analyzed as below
21	13	Right side	0	0.03	0.400	0.110	0.54	ΣSAR<1.6, Not required
		Left side	0	0.287	0.400	0.400	1.087	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



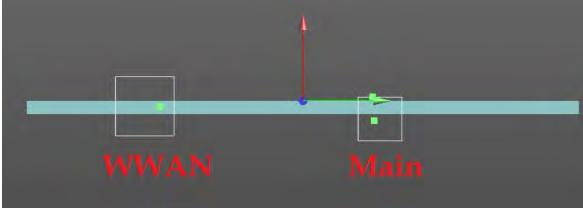
Page: 194 of 377

WWAN & WLAN Main

	7 II G IVE III Maii										
Conditions	Position	SAR Value	Сооі	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test		
LTE B13	Back side	1.069	10.16	-7.54	-0.07	1.677	116.5	0.019	SPLSR<0.04,		
WLAN Main	Dack Side	0.608	8.90	4.04	-0.01	1.077	110.5	0.019	Not required		



	Conditions	Conditions Position		Coordinates (cm)		(cm)	ΣSAR (M/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
	LTE B13	Top side	0.743	-0.30	-7.80	-0.27	1.353	117.1	0.013	SPLSR<0.04,
	WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.333	117.1	0.013	Not required
Ī										



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 195 of 377

WWAN & WLAN Aux

WWAN & W	LAIN AUX	\							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B13	Back side	1.069	10.16	-7.54	-0.07	2.136	193.2	0.016	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	2.100	133.2	0.010	Not required
6			WWA	N	1		Aux		

Conditions Position		Coo	rdinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
	(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
Ton side	0.743	-0.30	-7.80	-0.27	1 883	218	0.012	SPLSR<0.04,
Top side	1.14	-0.60	14.00	-0.10	1.000	210	0.012	Not required
				1				
							_	
	Top side	(W/kg) Top side 0.743 1.14	Position Value (W/kg) x Top side 0.743 -0.30	Position Value (W/kg) x y Top side 1.14 -0.60 14.00	Position Value (W/kg) x y z Top side 1.14 -0.60 14.00 -0.10	Position Value (W/kg) x y z 2 2 3 4 7 8 8 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8	Position SAR Value (W/kg) Coordinates (cm) SSAR (W/kg) Location Separation Distance (mm) Top side 0.743 -0.30 -7.80 -0.27 1.883 218	Position Position SAR Value (W/kg) Coordinates (cm) ΣSAR (W/kg) Location Separation Distance (mm) SPLSR Top side 0.743 -0.30 -7.80 -0.27 1.883 218 0.012

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 196 of 377

MILANI Main & MILANI ALIX

WLAN Main	& WLAN	Aux							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04,
WLAN Aux	Dack side	1.067	9.40	11.76	0.04	1.073	77.4	0.020	Not required
6					N	Main	Aux		

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.75	101.5	0.023	Not required
					A				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 197 of 377

LTE FDD Band XVII + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.059	0.608	1.067	2.734	Analyzed as below
28	LTE Band	Top side	0	0.533	0.610	1.140	2.283	Analyzed as below
20	17	Right side	0	0.017	0.400	0.110	0.527	ΣSAR<1.6, Not required
		Left side	0	0.216	0.400	0.400	1.016	ΣSAR<1.6, Not required

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

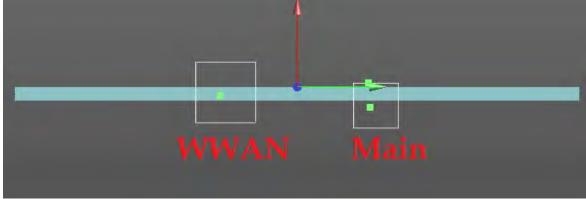
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 198 of 377

W۱	WAN & W	LAN Ma	in							
(Conditions	Position	SAR Value	Cooi	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
	LTE B17	Back side	1.059	10.47	-6.91	-0.08	1.667	110.6	0.019	SPLSR<0.04,
V	/LAN Main	Dack side	0.608	8.90	4.04	-0.01	1.007	110.0	0.013	Not required
				WWA	۸N	M	lain			

Conditions Position		SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg) x		у	Z	(VV/Kg)	Distance (mm)		SAR Test
LTE B17	Top side	0.533	-0.46	-4.12	-0.23	1.143	80.2	0.015	SPLSR<0.04,
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.143	00.2	0.013	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

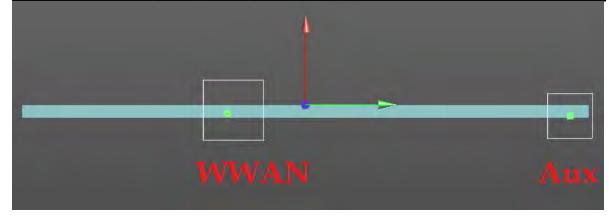


Page: 199 of 377

ΜΜΑΝ & ΜΙ ΔΝ Διιχ

WWAN & W	LAIN AUX	(_		_	
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B17	Back side	1.059	10.47	-6.91	-0.08	2.126	187	0.017	SPLSR<0.04,
WLAN Aux	Dack Side	1.067	9.40	11.76	0.04	2.120	107	0.017	Not required
6			WWA	N	<u> </u>		Aux		

			SAR Value	Coo	rdinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
				х	у	Z	(W/kg)	Distance (mm)		SAR Test
	LTE B17	Top side	0.533	-0.46	-4.12	-0.23	1.673	181.2	0.012	SPLSR<0.04,
,	WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.073	101.2	0.012	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 200 of 377

MILANI Main 9 MILANI Aux

WLAN Main	& WLAN	Aux							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	1.675	77.4	0.028	SPLSR<0.04,
WLAN Aux	Dack side	1.067	9.40	11.76	0.04	1.073	77.4	0.020	Not required
0					N	Aain	Aux		

Conditions	Conditions Position	SAR Value Coordinates (cm) ΣSAR Separa		Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.61	-1.08	3.88	-0.16	1.75	101.3	0.023	SPLSR<0.04,
WLAN Aux	Top side	1.14	-0.60	14.00	-0.10	1.70	101.0	0.020	Not required
					Á				
_					ļ				
						-			
									Aux
					- 200 20 200 20		v Av Av A		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 201 of 377

GPRS 850 + 2.4GHz WLAN Main + BT

<u> </u>	OT NO 000 T Z. FOTIZ WEAR MAINT DI												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.085	0.630	0.320	2.035	Analyzed as below					
29	GPRS 850	Top side	0	0.486	0.150	0.130	0.766	ΣSAR<1.6, Not required					
29	GF N3 650	Right side	0	0.011	0.400	0.040	0.451	ΣSAR<1.6, Not required					
		Left side	0	0.087	0.400	0.400	0.887	ΣSAR<1.6, Not required					

,	WWAN & W	LAN Mai	n						/WAN & WLAN Main											
	Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission										
			(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test										
	GPRS 850	Back side	1.085	9.85	-8.89	-0.11	1.715	125.6	0.018	SPLSR<0.04,										
	WLAN Main	Dack side	0.63	9.46	3.66	-0.02	1.7 10	120.0	0.010	Not required										
			W	/WAN		Ma	ain													

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 202 of 377

WWAN & BT

WWAIN & B	<u> </u>								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test
GPRS 850	Back side	1.085	9.85	-8.89	-0.11	1.405	198.4	0.008	SPLSR<0.04,
ВТ	Dack side	0.32	9.26	10.94	0.02	1.400	130.4	0.000	Not required
6		V	VWAN				ВТ		

WLAN Main & BT

WLAN Main	& B I								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.63	9.46	3.66	-0.02	0.95	72.8	0.013	SPLSR<0.04,
ВТ	Buok oldo	0.32	9.26	10.94	0.02	0.00	72.0	0.010	Not required
					Ma	nin	ВТ		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 203 of 377

GPRS 1900 + 2.4GHz WLAN Main + BT

<u> </u>											
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR			
		Back side	0	1.026	0.630	0.320	1.976	Analyzed as below			
30	GPRS	Top side	0	0.465	0.150	0.130	0.745	ΣSAR<1.6, Not required			
30	1900	Right side	0	0.024	0.400	0.040	0.464	ΣSAR<1.6, Not required			
		Left side	0	0.127	0.400	0.400	0.927	ΣSAR<1.6, Not required			

WWAN & WLAN Main

Conditions	Position	SAR Value	Coordinates (cm)		(cm)	ΣSAR (M/kg)	Peak Location Separation		Simultaneous Transmission
		(W/kg)	х	у	(W/kg) Distance			SAR Test	
GPRS 1900	Back side	1.026	10.17	-9.80	-0.03	1.656	134.8	0.016	SPLSR<0.04,
WLAN Main	Dack Side	0.63	9.46	3.66	-0.02	1.030	134.0	0.010	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 204 of 377

\M\M\AN & RT

WWAN & B									
Conditions	Position	SAR Value	Cool	oordinates (cm) ΣSAR (W/kg)		ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	Х	у	Z	(VV/Ng)	Distance (mm)		SAR Test
GPRS 1900	Back side	1.026	10.17	-9.80	-0.03	1.356	207.5	0.008	SPLSR<0.04,
ВТ	Dack Side	0.33	9.58	10.94	-0.01	1.550	201.5	0.000	Not required
0		WI	WAN		1	₹	BT		

WI AN Main & BT

WLAN Main	(A D I								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.63	9.46	3.66	-0.02	0.95	72.8	0.013	SPLSR<0.04,
ВТ	Buok oldo	0.32	9.26	10.94	0.02	0.00	72.0	0.010	Not required
					Ma	nin	BT		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 205 of 377

WCDMA Band II + 2.4GHz WLAN Main + BT

•••	ODMA Band II + 2.1012 WEAR Main + B1												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.093	0.630	0.320	2.043	Analyzed as below					
31	WCDMA	Top side	0	0.744	0.150	0.130	1.024	ΣSAR<1.6, Not required					
	B2	Right side	0	0.034	0.400	0.040	0.474	ΣSAR<1.6, Not required					
		Left side	0	0.185	0.400	0.400	0.985	ΣSAR<1.6, Not required					

WWAN & WLAN Main

	V V V V V II V 🖎 V V I	<u> </u>	• •							
	Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (M/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
	WCDMA B2	Back side	1.093	9.87	-9.82	-0.01	1.723	134.9	0.017	SPLSR<0.04,
	WLAN Main	Duon side	0.63	9.46	3.66	-0.02	1.720	104.0	0.017	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 206 of 377

\/\\/\AN & RT

WWAN & B	l								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WCDMA B2	Back side	1.093	9.87	-9.82	-0.01	1.413	207.7	0.008	SPLSR<0.04,
ВТ	Back side	0.32	9.26	10.94	0.02	1.410	207.7	0.000	Not required
6	W	WAN				ВТ			
						-			
									7

MI AN Main & BT

WLAN Main	& BT								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.63	9.46	3.66	-0.02	0.95	72.8	0.013	SPLSR<0.04,
ВТ	Baok oldo	0.32	9.26	10.94	0.02	0.00	72.0	0.010	Not required
6					Ma	nin	BT		
						-			
*									

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 207 of 377

WCDMA Band IV + 2.4GHz WLAN Main + BT

	NODINA BUILD IV 1 2.4-0112 WEAR MAIN 1 B1												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.079	0.630	0.320	2.029	Analyzed as below					
32	WCDMA	Top side	0	0.470	0.150	0.130	0.750	ΣSAR<1.6, Not required					
32	B4	Right side	0	0.021	0.400	0.040	0.461	ΣSAR<1.6, Not required					
		Left side	0	0.182	0.400	0.400	0.982	ΣSAR<1.6, Not required					

WWAN & WLAN Main

Conditions		SAR Coordinates (cm)		ΣSAR	Peak Location	SPLSR	Simultaneous		
Conditions	Position	Value (W/kg)	х	у	Z	(W/kg)	Senaration		Transmission SAR Test
WCDMA B4	Back side	1.079	9.39	-9.03	-0.08	1.709	126.9	0.018	SPLSR<0.04,
WLAN Main			9.46	3.66	-0.02	1.709	120.9	0.016	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 208 of 377

\M\M\AN & RT

WWAN & B	l								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WCDMA B4	Back side	1.079	9.39	-9.03	-0.08	1.399	199.7	0.008	SPLSR<0.04,
ВТ	0.32	9.26	10.94	0.02	1.555	155.7	0.000	Not required	
		M	WAN		Î		вт		

WI AN Main & BT

VVLAIN IVIAIII	/LAN Main & B1											
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.63	9.46	3.66	-0.02	0.95	72.8	0.013	SPLSR<0.04,			
ВТ	Back side	0.32	9.26	10.94	0.02	0.55	72.0	0.010	Not required			
					Ma	nin	ВТ					

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 209 of 377

WCDMA Band V + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR						
		Back side	0	1.133	0.630	0.320	2.083	Analyzed as below						
33	WCDMA	Top side	0	0.644	0.150	0.130	0.924	ΣSAR<1.6, Not required						
33	B5	_	_	B5	B5	B5	B5	Right side	0	0.012	0.400	0.040	0.452	ΣSAR<1.6, Not required
		Left side	0	0.342	0.400	0.400	1.142	ΣSAR<1.6, Not required						

WWAN & W	VWAN & WLAN Main												
Conditions	Position	SAR Value	Cool	rdinates	ΣSAR (W/kg) Separation			SPLSR	Simultaneous Transmission				
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test				
WCDMA B5	-Back side	1.133	9.85	-8.16	-0.11	1.763	118.3	0.020	SPLSR<0.04,				
WLAN Main	Dack Side	0.63	9.46	3.66	-0.02	1.703	110.3	0.020	Not required				
6		WWA!	N	Ma	ain								



除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 210 of 377

\/\\/\AN & RT

WWAN & B	l								
Conditions	Position	SAR Coordinates (cm) Value			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	Х	У	Z	(W/Kg)	Distance (mm)		SAR Test
WCDMA B5	Back side	1.133	9.85	-8.16	-0.11	1.453	191.1	0.009	SPLSR<0.04,
ВТ	Dack Side	0.32	9.26	10.94	0.02	1.400	131.1	0.003	Not required
			WWA	N	1		BT		

MI AN Main & DT

WLAN Main	& B I								
Conditions	Position	SAR Coordinates (cm) Value				ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.63	9.46	3.66	-0.02	0.95	72.8	0.013	SPLSR<0.04,
ВТ	Back side	0.32	9.26	10.94	0.02	0.55	72.0	0.010	Not required
6					Ma	nin	ВТ		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 211 of 377

CDMA BC0 + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.082	0.630	0.320	2.032	Analyzed as below					
34	BC0	Top side	0	0.737	0.150	0.130	1.017	ΣSAR<1.6, Not required					
34	BC0	BC0	BC0	BC0	BC0	Right side	0	0.026	0.400	0.040	0.466	ΣSAR<1.6, Not required	
		Left side	0	0.345	0.400	0.400	1.145	ΣSAR<1.6, Not required					

WWAN & WLAN Main

Conditions	Position	SAR Value	Cooi	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z				SAR Test
BC0	Back side	1.082	10.00	-7.86	-0.04	1.712	115.3	0.019	SPLSR<0.04,
WLAN Main	Dack Side	0.63	9.46	3.66	-0.02	1.712	113.3	0.019	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 212 of 377

WWAN & BT

٧V	WAN & B	l								
	Conditions	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	x	у	Z	(W/Kg)	Distance (mm)		SAR Test
	BC0	Back side	1.082	10.00	-7.86	-0.04	1.402	188.1	0.009	SPLSR<0.04,
	ВТ	Dack Side	0.32	9.26	10.94	0.02	1.402	100.1	0.003	Not required
	6			WWA	N	1		ВТ		

WLAN Main & BT

WLAN Main	& BT								
Conditions	Position	SAR Value	Coo	rdinates	(cm) ΣSAR (W/kg)		Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.63	9.46	3.66	-0.02	0.95	72.8	0.013	SPLSR<0.04,
ВТ	Buok oldo	0.32	9.26	10.94	0.02	0.00	72.0	0.010	Not required
					Me	nin	BT		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 213 of 377

CDMA BC1 + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR										
		Back side	0	1.175	0.630	0.320	2.125	Analyzed as below										
35	DC1	Top side	0	0.512	0.150	0.130	0.792	ΣSAR<1.6, Not required										
33	BC1	BC1	BC1	BC1	BC1	BCT	ВСТ	DC I	БСТ	вст	BC1	Right side	0	0.016	0.400	0.040	0.456	ΣSAR<1.6, Not required
		Left side	0	0.243	0.400	0.400	1.043	ΣSAR<1.6, Not required										

WWAN & W	<u>'LAN Ma</u>	in							
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
BC1	Back side	1.175	10.02	-9.52	-0.04	1.805	131.9	0.018	SPLSR<0.04,
WLAN Main	Baok oldo	0.63	9.46	3.66	-0.02	1.000	10110	0.018	Not required
0		V	WAN		Ma	in			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 214 of 377

WWAN & BT

WWAN & B	l								
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	x	у	Z	(W/Kg)	Distance (mm)		SAR Test
BC1	Back side	1.175	10.02	-9.52	-0.04	1.495	204.7	0.009	SPLSR<0.04, Not required
ВТ	Back side	0.32	9.26	10.94	0.02	1.430	204.7	0.009	
		W	VWAN	1			BT		

WLAN Main & BT

Conditions Position Value (W/kg) X y z Separation Distance (mm) SPLSR Transmission SAR Test	٧	<u>VLAN Main</u>	αρι																			
WLAN Main Back side O.32 9.26 10.94 Distance (mm) SAR Test SAR Test SAR Test O.013 SPLSR<0.04, Not required	Conditions		Position	Position	Position	Position	Position	Position	Position	Position	Position	Position	Position	Position	Value	Coordinates (cm)				Location Separation	SPLSR	Simultaneous Transmission
BT Back side 0.32 9.26 10.94 0.02 0.95 72.8 0.013 SPLSR<0.04, Not required				(W/kg)	Х	у	Z	(W/Ng)			SAR Test											
BT 0.32 9.26 10.94 0.02 Not required		WLAN Main	Back side		9.46	3.66	-0.02	0 95	72 8	0.013	SPLSR<0.04,											
Main BT	L	ВТ	Buok oldo		9.26	10.94	0.02	0.00	72.0	0.013	Not required											
							Ma	iin	ВТ													

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 215 of 377

LTE FDD Band II + 2.4GHz WLAN Main + BT

	. 22 2 a .		<u> </u>	, tit iviaiii				
No.	Conditions	onditions Position		Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.054	0.630	0.320	2.004	Analyzed as below
36	LTE Band	Top side	0	0.675	0.150	0.130	0.955	ΣSAR<1.6, Not required
30	2	Right side	0	0.033	0.400	0.040	0.473	ΣSAR<1.6, Not required
		Left side	0	0.218	0.400	0.400	1.018	ΣSAR<1.6, Not required

WWAN & W	<u>LAN Mai</u>	<u>n</u>							
Conditions	ions Position	SAR Coordinates		(cm) ΣSAR (W/kg)		I Senaration	SPLSR	Simultaneous Transmission	
		(W/kg)	х	Distance	Distance		SAR Test		
LTE B2	Davida da	1.054	9.55	-9.65	-0.06	1.684	133.1	0.016	SPLSR<0.04, Not required
WLAN Main	Back side	0.63	9.46	3.66	-0.02	1.004	133.1	0.010	
		WV	VAN		M	ain			



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 216 of 377

\M\M\AN & RT

WWAN & B	l								
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test
LTE B2	Back side	1.054	9.55	-9.65	-0.06	1.374	205.9	0.008	SPLSR<0.04, Not required
ВТ	Dack Side	0.32	9.26	10.94	0.02	1.57 4	200.0	0.000	
		WI	WAN		1		BT		

WI AN Main & BT

WLAN Main	(A D I												
Conditions	Position	Position	Position	Position	Position	SAR Value				ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test				
WLAN Main	Back side	0.63	9.46	3.66	-0.02	0.95	72.8	0.013	SPLSR<0.04,				
ВТ	Dack side	0.32	9.26	10.94	0.02	0.55	72.0	0.013	Not required				
					Ma	iin	BT						

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 217 of 377

LTE FDD Band IV + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR	
		Back side	0	1.057	0.630	0.320	2.007	Analyzed as below	
37	LTE Band _ 4	Top side	0	0.502	0.150	0.130	0.782	ΣSAR<1.6, Not required	
31			Right side	0	0.023	0.400	0.040	0.463	ΣSAR<1.6, Not required
			Left side	0	0.202	0.400	0.400	1.002	ΣSAR<1.6, Not required

WWAN & WLAN Main

	Conditions	Position	SAR Value (W/kg)	Cooi	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
				х	у	Z				SAR Test
	LTE B4	Back side -	1.057	9.55	-9.03	-0.06	1.687	126.9	0.017	SPLSR<0.04,
	WLAN Main		0.63			1.007	120.9	0.017	Not required	



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 218 of 377

MANANIO DT

WWAN & B	l								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B4	Back side	1.057	9.55	-9.03	-0.06	1.377	199.7	0.008	SPLSR<0.04,
ВТ	Dack Side	0.32	9.26	10.94	0.02	1.577	155.7	0.000	Not required
6		V	VWAN		1		ВТ		

MI ANI Main & RT

WLAN Main	& BT								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.63	9.46	3.66	-0.02	0.95	72.8	0.013	SPLSR<0.04,
ВТ		0.32	9.26	10.94	0.02	0.00		0.0.0	Not required
6					Ma	nin	ВТ		
						-			7
*									

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 219 of 377

LTE FDD Band V + 2.4GHz WLAN Main + BT

	. I DD Dai		<u> </u>						
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR	
		Back side	0	1.042	0.630	0.320	1.992	Analyzed as below	
38	LTE Band	Top side	0	0.653	0.150	0.130	0.933	ΣSAR<1.6, Not required	
30	5		Right side	0	0.29	0.400	0.040	0.73	ΣSAR<1.6, Not required
		Left side	0	0.338	0.400	0.400	1.138	ΣSAR<1.6, Not required	

WWAN & WI AN Main

VVVVAIN & VV	LAIN IVIAI	[]								
Conditions	Position	Position	SAR Value	Cooi	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test	
LTE B5	Back side	1.042	9.85	-8.74	-0.11	1.672	124.1	0.017	SPLSR<0.04,	
WLAN Main	Dack Side	0.63	9.46	3.66	-0.02	1.072	124.1	0.017	Not required	
			(1)							



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 220 of 377

WWAN & BT

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B5	Back side	1.042	9.85	-8.74	-0.11	1.362	196.9	0.008	SPLSR<0.04,
ВТ	Dack Side	0.32	9.26	10.94	0.02	1.002	130.3	0.000	Not required
6		V	VWAI	V	1	-	BT		

WI AN Main & BT

		SAR					Peak		
Conditions Pos		√alue	Cooi	rdinates	(cm)	ΣSAR (W/kg)	Location Separation	SPLSR	Simultaneous Transmission
	(V	W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	k side —	0.63	9.46	3.66	-0.02	0.95	72.8	0.013	SPLSR<0.04,
BT		0.32	9.26	10.94	0.02	0.55	72.0	0.013	Not required
6					Ma	iin	BT		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 221 of 377

LTE FDD Band VII + 2.4GHz WLAN Main + BT

	. 22 24.	. <u></u>									
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR			
		Back side	0	1.083	0.630	0.320	2.033	Analyzed as below			
39	LTE Band 7	LTE Band 7	LTE Band 7	LTE Band 7	Top side	0	0.766	0.150	0.130	1.046	ΣSAR<1.6, Not required
39					Right side	0	0.037	0.400	0.040	0.477	ΣSAR<1.6, Not required
		Left side	0	0.606	0.400	0.400	1.406	ΣSAR<1.6, Not required			

			IA/I	A/ A N	M	ain.			
WLAN Main	Dack Side	0.63	9.46	3.66	-0.02	1.713	31.2	0.023	Not required
LTE B7	Back side	1.083	9.58	-5.46	-0.04	1.713	Distance (mm)	0.025	SPLSR<0.04,
		(W/kg)	х	у	Z	(VV/Kg)			SAR Test
Conditions	Position	SAR Value	Cooi	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
WWAN & W	LAN Mai	n							



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 222 of 377

MANANIO DT

WWAN	1 & B									
Condi	Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE	B7	Back side	1.083	9.58	-5.46	-0.04	1.403	164	0.010	SPLSR<0.04,
ВТ	Γ	Dack Side	0.32	9.26	10.94	0.02	1.400	104	0.010	Not required
				W	WAN	<u> </u>	Ť	BT		

WLAN	Main	& BT								
Condit	Conditions		SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN	Main	Back side	0.63	9.46	3.66	-0.02	0.95	72.8	0.013	SPLSR<0.04,
ВТ		Buok oldo	0.32	9.26	10.94	0.02	0.00	72.0	0.010	Not required
1										
6						Ma	in	BT		
-						1				A
						-				
VIII.										7
Y -								/		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 223 of 377

LTE FDD Band XII + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR				
		Back side	0	1.124	0.630	0.320	2.074	Analyzed as below				
40	LTE Band	Top side	0	0.473	0.150	0.130	0.753	ΣSAR<1.6, Not required				
40	12	Right side	0	0.022	0.400	0.040	0.462	ΣSAR<1.6, Not required				
		Left side	0	0.211	0.400	0.400	1.011	ΣSAR<1.6, Not required				

WWAN & W	'LAN Mai	in							
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Ng)	Distance (mm)		SAR Test
LTE B12	Back side	1.124	10.31	-7.39	-0.07	1.754	110.8	0.021	SPLSR<0.04,
WLAN Main	Dack side	0.63	9.46	3.66	-0.02	1.704	110.0	0.021	Not required
			WWAN	N	Ma	in			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 224 of 377

\M\M\AN & RT

WWAN & B	l								
Conditions	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	x	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B12	Back side	1.124	10.31	-7.39	-0.07	1.444	183.6	0.009	SPLSR<0.04,
ВТ	Back side	0.32	9.26	10.94	0.02	1	100.0	0.000	Not required
6			WWA	AN	1		BT		

MI AN Main & BT

WLAN Main	& BT								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side		9.46	3.66	-0.02	0.95	72.8	0.013	SPLSR<0.04,
ВТ	Dack side	0.32	9.26	10.94	0.02	0.55	72.0	0.010	Not required
					Ma	nin	BT		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 225 of 377

LTE FDD Band XIII + 2.4GHz WLAN Main + BT

	TE I DD Band Am + 2.46m2 WEAN Main + BT												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.069	0.630	0.320	2.019	Analyzed as below					
41	LTE Band	Top side	0	0.743	0.150	0.130	1.023	ΣSAR<1.6, Not required					
41	13	Right side	0	0.03	0.400	0.040	0.47	ΣSAR<1.6, Not required					
		Left side	0	0.287	0.400	0.400	1.087	ΣSAR<1.6, Not required					

A				WWAI	V	Ma	in			
WLAN	Main	Dack side	0.63	9.46	3.66	-0.02	1.099	112.2	0.020	Not required
LTE B	13	Back side	1.069	10.16	-7.54	-0.07	1.699	112.2	0.020	SPLSR<0.04,
			(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
Conditi	Conditions	Position	SAR Value	Coordinates (cm) ΣSAR (W/kg)			_	Peak Location Separation	SPLSR	Simultaneous Transmission
WWAN	& W	LAN Mai	in							



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 226 of 377

WWAN & BT

VVVVAIN & D	0 1								
Conditions	Conditions Position		Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(VV/Ng)	Distance (mm)		SAR Test
LTE B13	Back side	1.069	10.16	-7.54	-0.07	1.389	185	0.009	SPLSR<0.04,
ВТ	Back side	0.32	9.26	10.94	0.02	1.000	100	0.000	Not required
6			WWA	AN .			ВТ		

WLAN Main	& BT								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission SAR Test
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.63	9.46	3.66	-0.02	0.95	72.8	0.013	SPLSR<0.04,
ВТ	Dack side	0.32	9.26	10.94	0.02	0.55	72.0	0.010	Not required
A					Ma	iin	BT		
					A				Λ
						7			
,									

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 227 of 377

LTE FDD Band XVII + 2.4GHz WLAN Main + BT

	TE 1 DD Balla XVII 1 2.7-0112 WEAR Mail 1 D1												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.059	0.630	0.320	2.009	Analyzed as below					
42	LTE Band	Top side	0	0.533	0.150	0.130	0.813	ΣSAR<1.6, Not required					
42	17	Right side	0	0.017	0.400	0.040	0.457	ΣSAR<1.6, Not required					
		Left side	0	0.216	0.400	0.400	1.016	ΣSAR<1.6, Not required					

WWAN & W	<u>'LAN Ma</u>	in							
Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B17	Back side	1.059	10.47	-6.91	-0.08	1.689	106.2	0.021	SPLSR<0.04,
WLAN Main	Buok oldo	0.63	9.46	3.66	-0.02	1.000	100.2	0.021	Not required
6			WWA	N	Ma	in			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 228 of 377

\/\\/\AN & RT

WWAN & B									
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B17	Back side	1.059	10.47	-6.91	-0.08	1.379	178.9	0.009	SPLSR<0.04,
ВТ	Dack Side	0.32	9.26	10.94	0.02	1.575	170.5	0.003	Not required
			WWA	N			BT		

MI Main 9 DT

WLAN Main	& BT								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.63	9.46	3.66	-0.02	0.95	72.8	0.013	SPLSR<0.04,
ВТ		0.32	9.26	10.94	0.02	0.00	. =	0.0.0	Not required
					Ma	iin	BT		
									7

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 229 of 377

GPRS 850 + 5GHz WLAN Main + BT

<u> </u>	TO SOUT SOIL WEAR MAINT DI													
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR						
		Back side	0	1.085	0.608	0.320	2.013	Analyzed as below						
43	CDDS 950	Top side	0	0.486	0.610	0.130	1.226	ΣSAR<1.6, Not required						
43	GPRS 850	GPRS 850	GPRS 850	GPRS 850	Right side	0	0.011	0.400	0.040	0.451	ΣSAR<1.6, Not required			
		Left side	0	0.087	0.400	0.400	0.887	ΣSAR<1.6, Not required						

\A/\A/ANIO \A/I ANINA-:

WWAN & W	LAN Ma	ın							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
GPRS 850	Back side	1.085	9.85	-8.89	-0.11	1.693	129.7	0.017	SPLSR<0.04,
WLAN Main	Daoit oldo	0.608	8.90	4.04	-0.01	1.000	120.1	0.011	Not required
0		V	WAN		M	lain			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 230 of 377

\/\\/\AN & RT

WWAN & B									
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
GPRS 850	Back side	1.085	9.85	-8.89	-0.11	1.405	198.4	0.008	SPLSR<0.04,
ВТ	Dack side	0.32	9.26	10.94	0.02	1.400	130.4	0.000	Not required
		V	VWAN	ı	1		BT		

WLAN Main	& BT								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission SAR Test
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,
ВТ	Dack side	0.32	9.26	10.94	0.02	0.020	00.1	0.010	Not required
6					I.M.	Iain	BT		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 231 of 377

GPRS 1900 + 5GHz WLAN Main + BT

<u> </u>	1000 1	30112 111	<u> </u>	🗩 .				
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.026	0.608	0.320	1.954	Analyzed as below
44	GPRS	Top side	0	0.465	0.610	0.130	1.205	ΣSAR<1.6, Not required
44	1900	Right side	0	0.024	0.400	0.040	0.464	ΣSAR<1.6, Not required
		Left side	0	0.127	0.400	0.400	0.927	ΣSAR<1.6, Not required

1	WWAN & WLAN Main												
	Conditions	Position	SAR Value	Coor	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
			(W/kg)	x	У	Z	(vv/kg)	Distance (mm)		SAR Test			
	GPRS 1900	1.026	10.17	-9.80	-0.03	1.634	139	0.015	SPLSR<0.04,				
	WLAN Main Back side		0.608	8.90	4.04	-0.01	1.00-	100	0.013	Not required			
			W	WAN		N.	¶ain ∽						

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 232 of 377

WWAN & BT

VVVVAIV & D	l								
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test
GPRS 1900	Back side	1.026	10.17	-9.80	-0.03	1.346	207.6	0.008	SPLSR<0.04,
ВТ	Dack Side	0.32	9.26	10.94	0.02	1.540	207.0	0.000	Not required
6		W	WAN		1		ВТ		

WLAN Main	LAN Main & BT												
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	х	У	Z	(W/Kg)	Distance (mm)		SAR Test				
WLAN Main	Back side	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,				
ВТ	Dack Side	0.32	9.26	10.94	0.02	0.920	09.1	0.013	Not required				
6					M	Iain	BT						

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 233 of 377

WCDMA Band II + 5GHz WLAN Main + BT

	TO SILVE DATE IT COLLET VE ALL MAINTED												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.093	0.608	0.320	2.021	Analyzed as below					
45	WCDMA	Top side	0	0.744	0.610	0.130	1.484	ΣSAR<1.6, Not required					
45	B2	Right side	0	0.034	0.400	0.040	0.474	ΣSAR<1.6, Not required					
		Left side	0	0.185	0.400	0.400	0.985	ΣSAR<1.6, Not required					

WWAN & WLAN Main

Conditions	Position SAR Value (W/kg)		Coo	rdinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
Conditions		х	у	Z	(W/kg)	Distance (mm)	SPLSR	SAR Test	
WCDMA B2	Back side	1.093	9.87	-9.82	-0.01	1.701	138.9	0.016	SPLSR<0.04,
WLAN Main	Dack Side	0.608	8.90	4.04	-0.01	1.701	130.9	0.010	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 234 of 377

WWAN & BT

WWAIN & B	l								
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WCDMA B2	Back side	1.093	9.87	-9.82	-0.01	1.413	207.7	0.008	SPLSR<0.04,
ВТ	Dack Side	0.32	9.26	10.94	0.02	1.413	201.1	0.000	Not required
		W	WAN		1		ВТ		

WLAN Main	<u>& B I</u>								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,
ВТ	Baok olac	0.32	9.26	10.94	0.02	0.020	33.1	0.010	Not required
6					M	lain -	BT		
									7

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 235 of 377

WCDMA Band IV + 5GHz WLAN Main + BT

•••	ODMA Band IV + 30112 WEAR Main + B1													
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR						
		Back side	0	1.079	0.608	0.320	2.007	Analyzed as below						
46	WCDMA	Top side	0	0.470	0.610	0.130	1.210	ΣSAR<1.6, Not required						
40	B4		B4	B4	B4	B4	B4	Right side	0	0.021	0.400	0.040	0.461	ΣSAR<1.6, Not required
		Left side	0	0.182	0.400	0.400	0.982	ΣSAR<1.6, Not required						

WLAN Main	Dack side	0.608	8.90	4.04	-0.01	1.007	130.0	0.017	Not required				
WCDMA B4	Back side	1.079	9.39	-9.03	-0.08	1.687	130.8	0.017	SPLSR<0.04,				
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test				
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
WWAN & W	VWAN & WLAN Main												



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 236 of 377

Position	SAR Value	Coo	rdinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
	(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
Back side	1.079	9.39	-9.03	-0.08	1 300	199.7	0.008	SPLSR<0.04,
Sack Slac	0.32	9.26	10.94	0.02	1.000	100.7	0.000	Not required
	W	WAN			<	ВТ		
	Position	Position Value (W/kg) Back side 0.32	Value	Position Value (W/kg) x y Back side 0.32 9.26 10.94	Position Value (W/kg) x y z Back side 0.32 9.26 10.94 0.02	Position Value (W/kg) x y z (W/kg) Back side 0.32 9.26 10.94 0.02 1.399	Position SAR Value (W/kg) Coordinates (cm) ΣSAR (W/kg) Location Separation Distance (mm) Back side 1.079 9.39 -9.03 -0.08 1.399 199.7	Position Position SAR Value (W/kg) Coordinates (cm) ΣSAR (W/kg) Location Separation Distance (mm) SPLSR Back side 1.079 9.39 -9.03 -0.08 1.399 199.7 0.008

WLAN Main	& BT								
Conditions	Position	SAR Value	Coc	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg) x y		Z	(VV/Kg)	Distance (mm)		SAR Test	
WLAN Main	-Back side	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,
ВТ	Dack Side	0.32	9.26	10.94	0.02	0.920	09.1	0.013	Not required
6					M	fain -	BT		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 237 of 377

WCDMA Band V + 5GHz WLAN Main + BT

WODINA Bana V 1 COME WEARING MAIN 1 B1													
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.133	0.608	0.320	2.061	Analyzed as below					
47	WCDMA	Top side	0	0.644	0.610	0.130	1.384	ΣSAR<1.6, Not required					
47	B5			B5	B5	B5	Right side	0	0.012	0.400	0.040	0.452	ΣSAR<1.6, Not required
		Left side	0	0.342	0.400	0.400	1.142	ΣSAR<1.6, Not required					

WWAN & WI AN Main

	Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)		Simultaneous Transmission
			(W/kg)	х	у	Z				SAR Test
	WCDMA B5	Back side	1.133	9.85	-8.16	-0.11	1.741	122.4	0.019	SPLSR<0.04,
	WLAN Main	Daok side	0.608	8.90	4.04	-0.01	1.741	122.4	0.019	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 238 of 377

\/\\/\AN & RT

WWAN & B									
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WCDMA B5	Back side	1.133	9.85	-8.16	-0.11	1.453	191.1	0.009	SPLSR<0.04,
BT Back side		0.32	9.26	10.94	0.02	1.433	191.1	0.009	Not required
		WWA	AN	1		BT			

WLAN Main	& BT								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(11119)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,
ВТ	Dack Side	0.32	9.26	10.94	0.02	0.320		0.013	Not required
6					M	Iain	ВТ		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 239 of 377

CDMA BC0 + 5GHz WLAN Main + BT

<u></u>	ODINA BOOT COME WEAR MAIN 1 B1															
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR								
		Back side	0	1.082	0.608	0.320	2.01	Analyzed as below								
48	BC0	Top side	0	0.737	0.610	0.130	1.477	ΣSAR<1.6, Not required								
40	BC0	BC0	BC0	BC0	BC0	BC0	BC0	BC0	BC0	Right side	0	0.026	0.400	0.040	0.466	ΣSAR<1.6, Not required
		Left side	0	0.345	0.400	0.400	1.145	ΣSAR<1.6, Not required								

WWAN & WI AN Main

VVVAINGVV	WAIN & WEAT MAIN												
Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	x	у	Z	(VV/Kg)	Distance (mm)		SAR Test				
BC0	Back side	1.082	10.00	-7.86	-0.04	1.69	119.5	0.018	SPLSR<0.04,				
WLAN Main	Dack Side	0.608	8.90	4.04	-0.01	1.69	119.5	0.016	Not required				
	1												



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 240 of 377

WWAN & B	T								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
BC0	Back side	1.082	10.00	-7.86	-0.04	1.402	188.1	0.009	SPLSR<0.04,
ВТ				10.94	0.02	1.402	100.1	0.003	Not required
			WWA	N			BT		
					1				A
					<u>. </u>	=			
									- 7

WI	_AN Main	& BT								
(Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	У	Z	(W/Kg)	Distance (mm)		SAR Test
V	/LAN Main	Back side	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,
	ВТ		0.32	9.26	10.94	0.02	0.020	00.1	0.0.0	Not required
ı										
7						N .	Iain	BT		
И										1
V						 				
٦										
										1

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 241 of 377

CDMA BC1 + 5GHz WLAN Main + BT

<u> </u>	ODINA BOTT GOTTE WEAR MAINTED																	
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR										
		Back side	0	1.175	0.608	0.320	2.103	Analyzed as below										
49	DC1	Top side	0	0.512	0.610	0.130	1.252	ΣSAR<1.6, Not required										
49	BC1 -	BC1	BC1	BC1	BC1	BC1	BC1	BC1	BC1	BC1	BC1	Right side	0	0.016	0.400	0.040	0.456	ΣSAR<1.6, Not required
		Left side	0	0.243	0.400	0.400	1.043	ΣSAR<1.6, Not required										

WWAN & W	WWAN & WLAN Main											
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
BC1	Back side	1.175	10.02	-9.52	-0.04	1.783	136.1	0.017	SPLSR<0.04,			
WLAN Main				4.04	-0.01	1.700	100.1	0.017	Not required			
6		V	VWAN		N	Main						

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 242 of 377

\/\\/\AN & RT

MMAN & B	<u> </u>								
Conditions	Position	SAR Value	Coo	Coordinates (cm) Σ			Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
BC1	Back side	1.175	10.02	-9.52	-0.04	1.495	204.7	0.009	SPLSR<0.04,
ВТ	Dack Side	0.32	9.26	10.94	0.02	1.493	204.7	0.009	Not required
6			WWAN	J		-	BT		

\A/I A N I N I = 1:= 0 DT

WLAN Main	<u>& B I</u>								
Conditions	Position	SAR Value	Coo	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(VV/kg)	Distance (mm)		SAR Test
WLAN Main	Back side -	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,
ВТ	Dack side	0.32	9.26	10.94	0.02	0.320	03.1	0.010	Not required
6					M	fain -	BT		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 243 of 377

LTE FDD Band II + 5GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.054	0.608	0.320	1.982	Analyzed as below					
50	LTE Band	Top side	0	0.675	0.610	0.130	1.415	ΣSAR<1.6, Not required					
30	2		Right side	0	0.033	0.400	0.040	0.473	ΣSAR<1.6, Not required				
		Left side	0	0.218	0.400	0.400	1.018	ΣSAR<1.6, Not required					

WWAN & WLAN Main

Conditions	Position	SAR Value (W/kg)	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
			х	у	Z				SAR Test
LTE B2	Back side	1.054	9.55	-9.65	-0.06	1.662	137.1	0.016	SPLSR<0.04,
WLAN Main	Dack Side	0.608	8.90	4.04	-0.01	1.002	137.1	0.010	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 244 of 377

1	WWAN & B	Γ									
	Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
			(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test	
	LTE B2	Back side	1.054	9.55	-9.65	-0.06	1.374	205.9	0.008	SPLSR<0.04,	
	ВТ	Dack side	0.32	9.26	10.94	0.02	1.574	200.5	0.000	Not required	
			W	WAN		1		BT			

WLAN Main	VLAN Main & BT										
Conditions	Position	SAR Value	Coo	ordinates			Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test		
WLAN Main	-Back side	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,		
ВТ	Daux side	0.32	9.26	10.94	0.02	0.320		0.013	Not required		
6					M	Iain	BT				

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 245 of 377

LTE FDD Band IV + 5GHz WLAN Main + BT

	TE 1 DD Balla 14 + 30112 WEAR Mail 1 + D1													
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR						
		Back side	0	1.057	0.608	0.320	1.985	Analyzed as below						
51	LTE Band	Top side	0	0.502	0.610	0.130	1.242	ΣSAR<1.6, Not required						
31	4		Right side	0	0.023	0.400	0.040	0.463	ΣSAR<1.6, Not required					
		Left side	0	0.202	0.400	0.400	1.002	ΣSAR<1.6, Not required						

,	WWAN & WLAN Main											
	Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission SAR Test		
			(W/kg)	х	у	Z	(W/Kg)	Distance (mm)				
	LTE B4	Back side	1.057	9.55	-9.03	-0.06	1.665	130.9	0.016	SPLSR<0.04,		
	WLAN Main	Dack side	0.608	8.90	4.04	-0.01	1.005	100.0	0.010	Not required		
			W	WAN		N.	lain					

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The

Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 246 of 377

MANALO DE

WWAN & B									
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B4	Back side	1.057	9.55	-9.03	-0.06	1.377	199.7	0.008	SPLSR<0.04,
ВТ	Back side	0.32	9.26	10.94	0.02	1.077	100.7	0.000	Not required
		W	/WAN	ī	<u> </u>		BT		

WLAN Main	VLAN Main & BT											
Conditions	Position	SAR Value	Coo			Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	х	У	Z	(W/Kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,			
ВТ	Dack Side	0.32	9.26	10.94	0.02	0.928	09.1	0.013	Not required			
6					M	Iain	ВТ					

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 247 of 377

LTE FDD Band V + 5GHz WLAN Main + BT

	E 1 DD Build V 1 GOTIZ WEAR Mulli 1 D1												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.042	0.608	0.320	1.97	Analyzed as below					
52	LTE Band	Top side	0	0.653	0.610	0.130	1.393	ΣSAR<1.6, Not required					
32	5	Right side	0	0.29	0.400	0.040	0.73	ΣSAR<1.6, Not required					
		Left side	0	0.338	0.400	0.400	1.138	ΣSAR<1.6, Not required					

WWAN & W	WWAN & WLAN Main												
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR					
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test				
LTE B5	Back side	1.042	9.85	-8.74	-0.11	1.65	128.2	0.017	SPLSR<0.04,				
WLAN Main	Dack Side	0.608	8.90	4.04	-0.01	1.05		0.017	Not required				
6		V	VWAN	1	N A	Main							

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 248 of 377

WWAN & BT

WWAIN & B	l								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Ng)	Distance (mm)		SAR Test
LTE B5	Back side	1.042	9.85	-8.74	-0.11	1.362	196.9	0.008	SPLSR<0.04,
ВТ	Dack Side	0.32	9.26	10.94	0.02	1.002	130.3	0.000	Not required
			W AI	٧	1		BT		

MI ANIMA: O DT

WLAN Main	& BT								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,
ВТ	Baok olac	0.32	9.26	10.94	0.02	0.020	00.1	0.010	Not required
0					N.	lain	BT		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 249 of 377

LTE FDD Band VII + 5GHz WLAN Main + BT

	TET DD Band VII I COTE WEATH Main I D											
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR				
		Back side	0	1.083	0.608	0.320	2.011	Analyzed as below				
53	LTE Band	Top side	0	0.766	0.610	0.130	1.506	ΣSAR<1.6, Not required				
	7	Right side	0	0.037	0.400	0.040	0.477	ΣSAR<1.6, Not required				
		Left side	0	0.606	0.400	0.400	1.406	ΣSAR<1.6, Not required				

WWAN & WLAN Main

	Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)		Simultaneous Transmission SAR Test
			(W/kg)	х	у	Z				
	LTE B7	Back side	1.083	9.58	-5.46	-0.04	1.691	95.2	0.023	SPLSR<0.04,
	WLAN Main	Dack Side	0.608	8.90	4.04	-0.01	1.091	93.2	0.023	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 250 of 377

\/\\/\AN & RT

WWAN & B	l								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B7	Back side	1.083	9.58	-5.46	-0.04	1.403	164	0.010	SPLSR<0.04,
ВТ	Dack side	0.32	9.26	10.94	0.02	1.400	104	0.010	Not required
6			W	WAN			BT		

WLAN Main	& BT								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,
ВТ	back side	0.32	9.26	10.94	0.02	0.920	09.1	0.013	Not required
6					M.	Iain	BT		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 251 of 377

LTE FDD Band XII + 5GHz WLAN Main + BT

	TE 1 DD Band XII 1 00112 WEAR Main 1 D1											
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR				
		Back side	0	1.124	0.608	0.320	2.052	Analyzed as below				
54	LTE Band	Top side	0	0.473	0.610	0.130	1.213	ΣSAR<1.6, Not required				
34	12	Right side	0	0.022	0.400	0.040	0.462	ΣSAR<1.6, Not required				
		Left side	0	0.211	0.400	0.400	1.011	ΣSAR<1.6, Not required				

WWAN & WLAN Main

Conditions Po	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z				SAR Test
LTE B12	Back side	1.124	10.31	-7.39	-0.07	1.732	115.2	0.020	SPLSR<0.04,
WLAN Main	Dack Side	0.608	8.90	4.04	-0.01	1.732	113.2	0.020	Not required



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 252 of 377

WWAN & BT

WWAN & B	1							_	
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test
LTE B12	Back side	1.124	10.31	-7.39	-0.07	1.444	183.6	0.009	SPLSR<0.04,
ВТ	Dack Side	0.32	9.26	10.94	0.02	1.444	100.0	0.003	Not required
			WW	AN	1	-	ВТ		

WI AN Main & BT

WLAN Main	&BI								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,
ВТ	Baok oldo	0.32	9.26	10.94	0.02	0.020	33.1	0.010	Not required
0					I. N.	lain	BT		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 253 of 377

LTE FDD Band XIII + 5GHz WLAN Main + BT

			<u> </u>					
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.069	0.608	0.320	1.997	Analyzed as below
55	LTE Band	Top side	0	0.743	0.610	0.130	1.483	ΣSAR<1.6, Not required
33	13	Right side	0	0.03	0.400	0.040	0.47	ΣSAR<1.6, Not required
		Left side	0	0.287	0.400	0.400	1.087	ΣSAR<1.6, Not required

WWAN & W	<u>'LAN Ma</u>	ın								
Conditions	Position	Position	SAR on Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(vv/kg)	Distance (mm)		SAR Test	
LTE B13	Back side	1.069	10.16	-7.54	-0.07	1.677	116.5	0.019	SPLSR<0.04,	
WLAN Main	Dack Side	0.608	8.90	4.04	-0.01	1.077	110.5	0.019	Not required	
- /4			1A/1A/ A	N	N	Azin				



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 254 of 377

WWAN & BT

WWAIN & B	l								
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B13	Back side	1.069	10.16	-7.54	-0.07	1.389	185	0.009	SPLSR<0.04,
ВТ	Dack side	0.32	9.26	10.94	0.02	1.505	100	0.003	Not required
0			WWA	AN	A		BT		

WLAN Main	& BT								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,
ВТ	Baok oldo	0.32	9.26	10.94	0.02	0.020	33.1	0.010	Not required
6					N .	Iain	BT		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 255 of 377

LTE FDD Band XVII + 5GHz WLAN Main + BT

	I DD Dai	 	, , , , , , , , , , , , , , , , , , , 	EAN Main				
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.059	0.608	0.320	1.987	Analyzed as below
56	LTE Band	Top side	0	0.533	0.610	0.130	1.273	ΣSAR<1.6, Not required
30	17	Right side	0	0.017	0.400	0.040	0.457	ΣSAR<1.6, Not required
		Left side	0	0.216	0.400	0.400	1.016	ΣSAR<1.6, Not required

LTE B17	Back side	1.059	10.47	-6.91	-0.08	1.667	110.6	0.019	SPLSR<0. Not requir
LTE B17	Back side			,		1.667	,	0.019	
Conditions	Position	Value (W/kg)	х	у	z	ΣSAR (W/kg)	Separation Distance (mm)		Simultaned Transmiss SAR Tes
		SAR	Coor	dinates	(cm)	ΣSAR	Peak Location		_



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 256 of 377

WWAN & BT

WWAN & B	<u>I</u>								
Conditions	Position			Coordinates (cm)			Peak Location Separation	SPLSR	Simultaneous Transmission SAR Test
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B17	Back side	1.059	10.47	-6.91	-0.08	1.379	178.9	0.009	SPLSR<0.04,
ВТ	Dack Side	0.32	9.26	10.94	0.02	1.575	170.5	0.003	Not required
			WWA	AN	1		BT		

WLAN Main	& BT								
Conditions	Position	SAR Value	Coo	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(VV/kg)	Distance (mm)		SAR Test
WLAN Main	-Back side	0.608	8.90	4.04	-0.01	0.928	69.1	0.013	SPLSR<0.04,
ВТ	Dack Side	0.32	9.26	10.94	0.02	0.920	03.1	0.013	Not required
6					M	Iain	BT		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 257 of 377

4. Instruments List

Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration
Schmid & Partner	Dosimetric E-Field	EX3DV4	3831	Jan.29,2015	Jan.28,2016
Engineering AG	Probe	LAGDV4	3031	Jan.27,2016	Jan.26,2017
		D750V2	1015	Aug.24,2015	Aug.23,2016
		D835V2	4d063	Aug.24,2015	Aug.23,2016
Schmid &		D1750V2	1008	Aug.20,2015	Aug.19,2016
Partner	System Validation Dipole	D1900V2	5d027	Apr.29,2015	Apr.28,2016
Engineering AG		D2450V2	727	Apr.22,2015	Apr.21,2016
		D2600V2	1005	Jan.27,2015	Jan.26,2016
		D5GHzV2	1023	Jan.26,2016	Jan.25,2017
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	1336	Aug.26,2015	Aug.25,2016
Schmid & Partner Engineering AG	Software	DASY 52 V52.8.8	N/A	Calibration not required	Calibration not required
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required	Calibration not required
HP	Network Analyzer	8753D	3410A05547	May.21,2015	May.20,2016

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 258 of 377

Manufacturer	Dovice	Type	Serial	Date of last	Date of next
Manuacturer	Device	Type	number	calibration	calibration
	Dielectric			Calibration	Calibration
Agilent	Probe Kit	85070E	MY44300677	not required	not required
	1 1000 1410			•	
A sell see t	Dual-directional	772D	MY46151242	Jul.15,2015	Jul.14,2016
Agilent	coupler	770D	NAV/40000400	1.1.40.0045	L.I.45 0040
	3 3 4 4 5 5	778D	MY48220468	Jul. 16,2015	Jul.15,2016
	5-6.		MY50145142	Feb 06 2015	Feb 05 2016
Agilent	RF Signal	N5181A	W1130143142	1 60.00.2013	1 60.00.2010
, tgilorit	Generator		MY50145142	Feb 19 2016	Feb.18.2017
			141100110112	1 00.10,2010	
Agilent	Power Meter	E4417A	MY52240003	Jul.15,2015	Jul.14,2016
				*	,
Agilent	Power Sensor	E9301H	MY52200004	Jul.15,2015	Jul.14,2016
TEODEL	District the same same of same	DTM 000A	TD400075	NA 07 0045	
TECPEL	Digital thermometer	DTM-303A	TP130075	Mar.27,2015	Mar.26,2016
	Radio				
R&S	Communication	CMU200	122498	Aug 26 2015	Aug.25,2016
	Test	00_00		, tag.20,2010	, tag.20,2010
A	Radio	MTOOOGO	6201061049	Feb.02.2015	Feb.01.2016
Anritsu	Communication	MT8820C	0004004044	0-1-07-0045	0-1-00-0010
	Test		6201061014	Oct.07,2015	Oct.06,2016

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 259 of 377

5. Measurements

Date: 2015/10/15

GPRS 850_Body_Back side_CH 251_0mm

Communication System: GPRS(1Dn4Up); Frequency: 848.8 MHz

Medium parameters used: f = 849 MHz; $\sigma = 1.025$ S/m; $\varepsilon_r = 53.219$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(9, 9, 9); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.46 W/kg

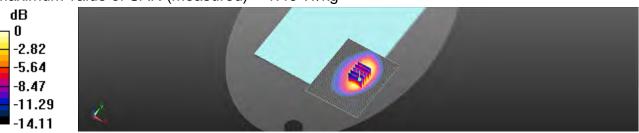
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 0.3710 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.649 W/kg Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.40 W/kg = 1.45 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號



Page: 260 of 377

Date: 2015/10/19

GPRS 1900_Body_Back side_CH 810_0mm

Communication System: GPRS(1Dn4Up); Frequency: 1909.8 MHz

Medium parameters used: f = 1910 MHz; $\sigma = 1.571 \text{ S/m}$; $\varepsilon_r = 52.032$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(7.34, 7.34, 7.34); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.17 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

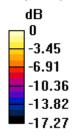
dy=8mm, dz=5mm

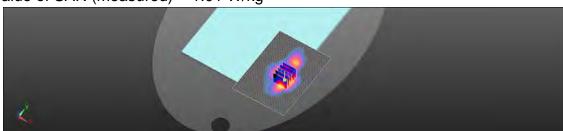
Reference Value = 2.939 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.743 W/kg; SAR(10 g) = 0.352 W/kg

Maximum value of SAR (measured) = 1.01 W/kg





0 dB = 1.01 W/kg = 0.05 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Page: 261 of 377

Date: 2015/10/24

WCDMA Band 2_Body_Back side_CH 9262_0mm

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used: f = 1852.4 MHz; $\sigma = 1.545$ S/m; $\epsilon_r = 52.106$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(7.34, 7.34, 7.34); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x111x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.70 W/kg

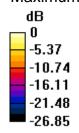
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

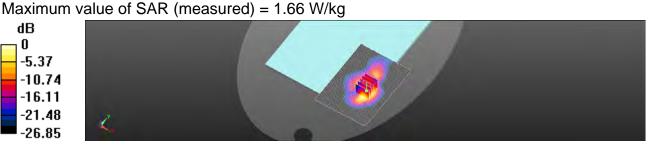
dv=8mm, dz=5mm

Reference Value = 0.2411 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.498 W/kg





0 dB = 1.66 W/kg = 2.21 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號



Page: 262 of 377

Date: 2015/10/16

WCDMA Band 4 Body Back side CH 1312 0mm

Communication System: WCDMA; Frequency: 1712.4 MHz

Medium parameters used: f = 1712.4 MHz; $\sigma = 1.514 \text{ S/m}$; $\varepsilon_r = 51.59$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(7.5, 7.5, 7.5); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x111x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.19 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

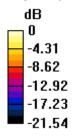
dv=8mm, dz=5mm

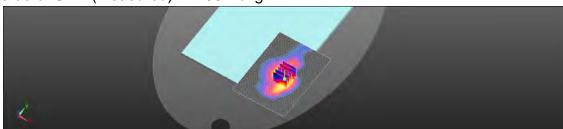
Reference Value = 0.2540 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.757 W/kg; SAR(10 g) = 0.367 W/kg

Maximum value of SAR (measured) = 1.08 W/kg





0 dB = 1.08 W/kg = 0.32 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488



Page: 263 of 377

Date: 2015/10/15

WCDMA Band 5_Body_Back side_CH 4183_0mm

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used: f = 837 MHz; $\sigma = 1.009 \text{ S/m}$; $\varepsilon_r = 53.269$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(9, 9, 9); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x101x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.26 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

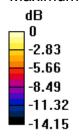
dv=8mm, dz=5mm

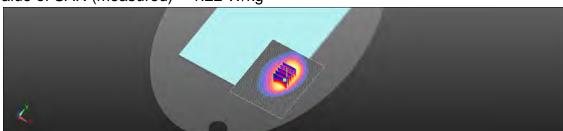
Reference Value = 0.3820 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.927 W/kg; SAR(10 g) = 0.566 W/kg

Maximum value of SAR (measured) = 1.22 W/kg





0 dB = 1.22 W/kg = 0.85 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 264 of 377

Date: 2015/10/19

LTE Band 2 (20MHz) Body Back side CH 19100 QPSK 1-0 0mm

Communication System: LTE; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.564 \text{ S/m}$; $\varepsilon_r = 52.041$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(7.34, 7.34, 7.34); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x111x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.37 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

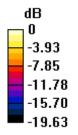
dv=8mm, dz=5mm

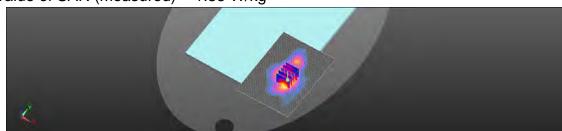
Reference Value = 0.8810 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.881 W/kg; SAR(10 g) = 0.425 W/kg

Maximum value of SAR (measured) = 1.35 W/kg





0 dB = 1.35 W/kg = 1.31 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Page: 265 of 377

Date: 2015/10/16

LTE Band 4 (20MHz) Body Back side CH 20050 QPSK 1-0 0mm

Communication System: LTE; Frequency: 1720 MHz

Medium parameters used: f = 1720 MHz; $\sigma = 1.519 \text{ S/m}$; $\varepsilon_r = 51.576$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(7.5, 7.5, 7.5); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x111x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.43 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

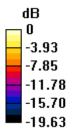
dv=8mm, dz=5mm

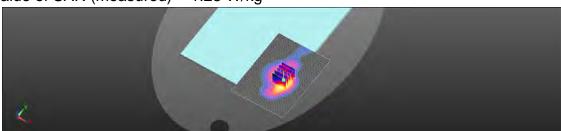
Reference Value = 1.360 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 0.908 W/kg; SAR(10 g) = 0.439 W/kg

Maximum value of SAR (measured) = 1.23 W/kg





0 dB = 1.23 W/kg = 0.90 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Page: 266 of 377

Date: 2015/10/15

LTE Band 5 (10MHz)_Body_Back side_CH 20600_QPSK_1-0_0mm

Communication System: LTE; Frequency: 844 MHz

Medium parameters used: f = 844 MHz; $\sigma = 1.018$ S/m; $\varepsilon_r = 53.261$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(9, 9, 9); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.32 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

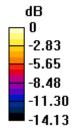
dy=8mm, dz=5mm

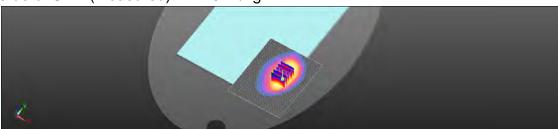
Reference Value = 0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.953 W/kg; SAR(10 g) = 0.583 W/kg

Maximum value of SAR (measured) = 1.25 W/kg





0 dB = 1.25 W/kg = 0.96 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號



Page: 267 of 377

Date: 2015/10/20

LTE Band 7 (20MHz)_Body_Back side_CH 21350_QPSK_1-99_0mm

Communication System: LTE; Frequency: 2560 MHz

Medium parameters used: f = 2560 MHz; $\sigma = 2.175 \text{ S/m}$; $\varepsilon_r = 51.599$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(6.65, 6.65, 6.65); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (101x141x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.39 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

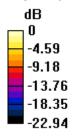
dy=5mm, dz=5mm

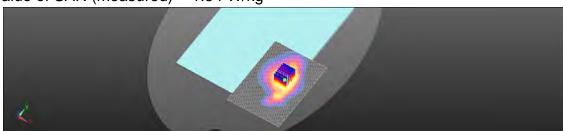
Reference Value = 1.022 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.23 W/kg

SAR(1 g) = 0.959 W/kg; SAR(10 g) = 0.521 W/kg

Maximum value of SAR (measured) = 1.54 W/kg





0 dB = 1.54 W/kg = 1.88 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Page: 268 of 377

Date: 2015/10/13

LTE Band 12 (10MHz) Body Back side CH 23130 QPSK 1-49 0mm

Communication System: LTE; Frequency: 711 MHz

Medium parameters used: f = 711 MHz; $\sigma = 0.986$ S/m; $\varepsilon_r = 54.667$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(9.07, 9.07, 9.07); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x111x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.36 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

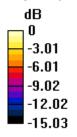
dv=8mm, dz=5mm

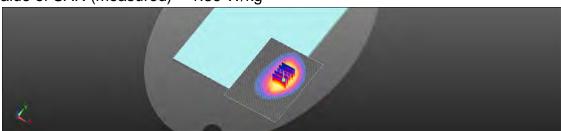
Reference Value = 1.038 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 0.988 W/kg; SAR(10 g) = 0.557 W/kg

Maximum value of SAR (measured) = 1.39 W/kg





0 dB = 1.39 W/kg = 1.42 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488



Page: 269 of 377

Date: 2015/10/14

LTE Band 13 (10MHz)_Body_Back side_CH 23230_QPSK_1-0_0mm

Communication System: LTE; Frequency: 782 MHz

Medium parameters used: f = 782 MHz; $\sigma = 0.999 \text{ S/m}$; $\varepsilon_r = 54.199$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(9.07, 9.07, 9.07); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x111x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.37 W/kg

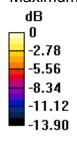
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

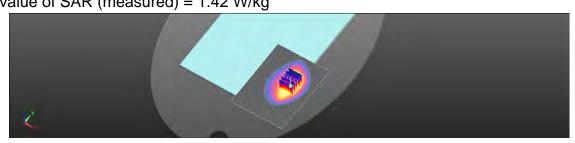
dv=8mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.600 W/kgMaximum value of SAR (measured) = 1.42 W/kg





0 dB = 1.42 W/kg = 1.53 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279



Page: 270 of 377

Date: 2015/10/13

LTE Band 17 (10MHz) Body Back side CH 23780 QPSK 1-49 0mm

Communication System: LTE; Frequency: 709 MHz

Medium parameters used: f = 709 MHz; $\sigma = 0.985$ S/m; $\varepsilon_r = 54.715$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(9.07, 9.07, 9.07); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x111x1): Interpolated grid: dx=15 mm, dy=15

Maximum value of SAR (interpolated) = 1.39 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dv=8mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.579 W/kgMaximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.51 W/kg = 1.79 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 271 of 377

Date: 2015/10/15

Cellular BC0_Body_Back side_CH 384_0mm

Communication System: 1xEVDO; Frequency: 836.52 MHz

Medium parameters used: f = 837 MHz; $\sigma = 1.009$ S/m; $\varepsilon_r = 53.276$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(9, 9, 9); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.24 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

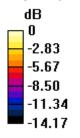
dy=8mm, dz=5mm

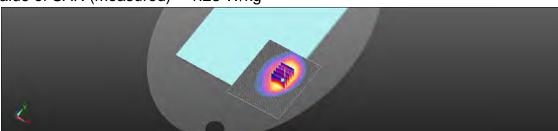
Reference Value = 0 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.932 W/kg; SAR(10 g) = 0.567 W/kg

Maximum value of SAR (measured) = 1.23 W/kg





0 dB = 1.23 W/kg = 0.89 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號



Page: 272 of 377

Date: 2015/10/19

PCS BC1_Body_Back side_CH 1175_0mm

Communication System: 1xEVDO; Frequency: 1908.75 MHz

Medium parameters used: f = 1909 MHz; $\sigma = 1.569 \text{ S/m}$; $\varepsilon_r = 52.033$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(7.34, 7.34, 7.34); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.31 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

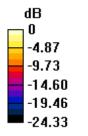
dy=8mm, dz=5mm

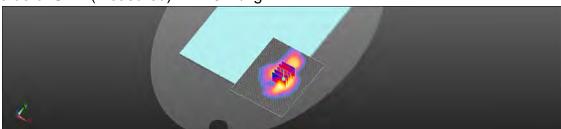
Reference Value = 0.5850 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.944 W/kg; SAR(10 g) = 0.445 W/kg

Maximum value of SAR (measured) = 1.13 W/kg





0 dB = 1.13 W/kg = 0.54 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號



Page: 273 of 377

Date: 2016/3/7

WLAN802.11a 5.3G Body Back side_CH 60_0 mm_Main

Communication System: WLAN(5G); Frequency: 5300 MHz

Medium parameters used: f = 5300 MHz; $\sigma = 5.468 \text{ S/m}$; $\varepsilon_r = 48.392$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(3.81, 3.81, 3.81); Calibrated: 2016/1/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (91x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.57 W/kg

Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

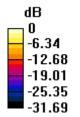
dy=4mm, dz=2mm

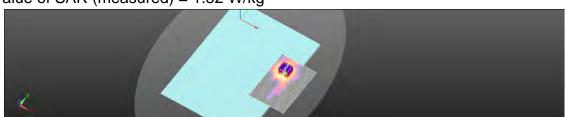
Reference Value = 0 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.61 W/kg

SAR(1 g) = 0.601 W/kg; SAR(10 g) = 0.202 W/kg

Maximum value of SAR (measured) = 1.52 W/kg





0 dB = 1.72 W/kg = 1.82 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號



Page: 274 of 377

Date: 2016/3/7

WLAN802.11a 5.3G_Body_Back side_CH 56_0 mm_Aux

Communication System: WLAN(5G); Frequency: 5280 MHz

Medium parameters used: f = 5280 MHz; $\sigma = 5.447 \text{ S/m}$; $\varepsilon_r = 48.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(3.81, 3.81, 3.81); Calibrated: 2016/1/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/BODY/Area Scan (91x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.13 W/kg

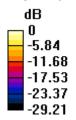
Configuration/BODY/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

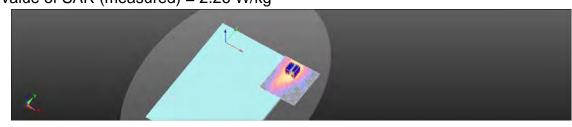
dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 4.72 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.289 W/kg Maximum value of SAR (measured) = 2.26 W/kg





0 dB = 2.26 W/kg = 3.54 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Page: 275 of 377

6. SAR System Performance Verification

Date: 2015/10/13

Dipole 750 MHz_SN:1015

Communication System: CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz; σ = 0.996 S/m; ε_r = 54.338; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3831; ConvF(9.07, 9.07, 9.07); Calibrated: 2015/1/29;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2015/8/26

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x141x1): Interpolated grid: dx=15 mm, dv=15 mm

Maximum value of SAR (interpolated) = 2.62 W/kg

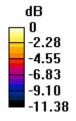
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

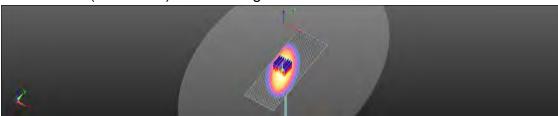
dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.33 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.11 W/kg

SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.39 W/kg Maximum value of SAR (measured) = 2.62 W/kg





0 dB = 2.59 W/kg = 4.13 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 276 of 377

Date: 2015/10/14

Dipole 750 MHz_SN:1015

Communication System: CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz; $\sigma = 0.997 \text{ S/m}$; $\varepsilon_r = 54.321$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3831; ConvF(9.07, 9.07, 9.07); Calibrated: 2015/1/29;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2015/8/26

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.86 W/kg

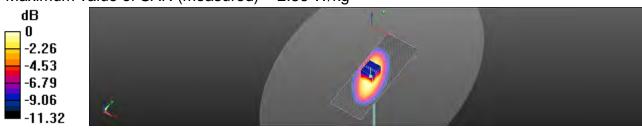
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.99 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.40 W/kg

SAR(1 g) = 2.23 W/kg; SAR(10 g) = 1.44 W/kg Maximum value of SAR (measured) = 2.86 W/kg



0 dB = 2.86 W/kg = 4.56 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號



Page: 277 of 377

Date: 2015/10/15

Dipole 835 MHz_SN:4d063

Communication System: CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 1.007 \text{ S/m}$; $\varepsilon_r = 53.287$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3831; ConvF(9, 9, 9); Calibrated: 2015/1/29;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2015/8/26

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (61x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 3.08 W/kg

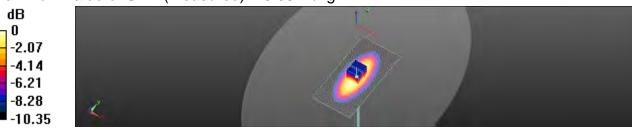
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.29 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.6 W/kg Maximum value of SAR (measured) = 3.09 W/kg



0 dB = 3.09 W/kg = 4.90 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Page: 278 of 377

Date: 2015/10/16

Dipole 1750 MHz SN:1008

Communication System: CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.539 \text{ S/m}$; $\varepsilon_r = 51.489$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3831; ConvF(7.5, 7.5, 7.5); Calibrated: 2015/1/29;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2015/8/26

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (41x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.3 W/kg

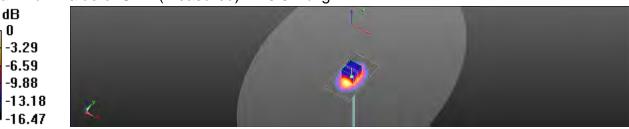
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.60 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 9.52 W/kg; SAR(10 g) = 5.07 W/kgMaximum value of SAR (measured) = 13.5 W/kg



0 dB = 13.5 W/kg = 11.30 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488



Page: 279 of 377

Date: 2015/10/19

Dipole 1900 MHz SN:5d027

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.564 \text{ S/m}$; $\varepsilon_r = 52.041$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3831; ConvF(7.34, 7.34, 7.34); Calibrated: 2015/1/29;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2015/8/26

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (41x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.9 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

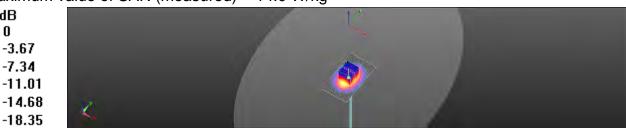
dx=5mm, dy=5mm, dz=5mm

dΒ 0

Reference Value = 95.62 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 9.71 W/kg; SAR(10 g) = 4.98 W/kgMaximum value of SAR (measured) = 14.0 W/kg



0 dB = 14.0 W/kg = 11.47 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號



Page: 280 of 377

Date: 2015/10/24

Dipole 1900 MHz_SN:5d027

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.563 \text{ S/m}$; $\varepsilon_r = 52.044$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3831; ConvF(7.34, 7.34, 7.34); Calibrated: 2015/1/29;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2015/8/26

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (41x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.9 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

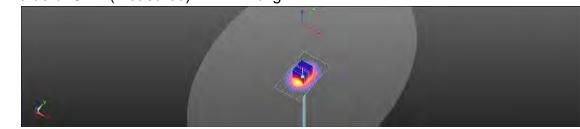
dx=5mm, dy=5mm, dz=5mm

dB 0 -3.69 -7.39 -11.08 -14.78

Reference Value = 95.17 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 9.73 W/kg; SAR(10 g) = 4.99 W/kg Maximum value of SAR (measured) = 14.1 W/kg



0 dB = 14.1 W/kg = 11.49 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 281 of 377

Date: 2016/3/7

Dipole 2450 MHz SN:727

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.991 \text{ S/m}$; $\varepsilon_r = 52.416$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3831; ConvF(6.81, 6.81, 6.81); Calibrated: 2016/1/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2015/8/26

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (61x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 19.9 W/kg

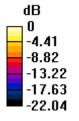
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.39 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 25.8 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.17 W/kgMaximum value of SAR (measured) = 19.3 W/kg





0 dB = 19.3 W/kg = 12.85 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號



Page: 282 of 377

Date: 2015/10/20

Dipole 2600 MHz SN:1005

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.232 \text{ S/m}$; $\varepsilon_r = 51.559$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3831; ConvF(6.65, 6.65, 6.65); Calibrated: 2015/1/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: Body
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 23.5 W/kg

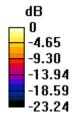
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

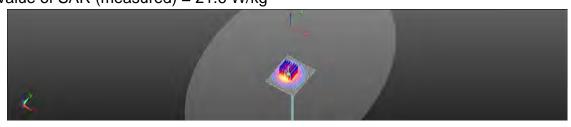
dx=5mm, dy=5mm, dz=5mm

Reference Value = 94.22 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 29.2 W/kg

SAR(1 g) = 14 W/kg; SAR(10 g) = 6.28 W/kg Maximum value of SAR (measured) = 21.6 W/kg





0 dB = 21.6 W/kg = 13.34 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Page: 283 of 377

Date: 2016/3/7

Dipole 5300 MHz SN:1023

Communication System: CW; Frequency: 5300 MHz

Medium parameters used: f = 5300 MHz; $\sigma = 5.468 \text{ S/m}$; $\varepsilon_r = 48.392$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3831; ConvF(3.81, 3.81, 3.81); Calibrated: 2016/1/27;

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1336; Calibrated: 2015/8/26

Phantom: Body

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.1 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 48.05 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 32.5 W/kg

SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.18 W/kg Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 16.5 W/kg = 12.18 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Page: 284 of 377

7. DAE & Probe Calibration Certificate

Calibration Laboratory of Schmid & Partner Engineering AG satrasse 43, 6004 Zurich, Switzerlan





S Service suisse d'étalonnage C Servizio svizzero di taratura S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilatoral Agreement for the recognition of calibration certificates

SGS - TW (Auden)

Certificate No: DAE4-1336 Aug15 CALIBRATION CERTIFICATE Object DAE4 - SD 000 D04 BM - SN: 1336 Calibration procedure(s) QA CAL-06.V29 Calibration procedure for the data acquisition electronics (DAE) Calibration dam August 26, 2015 This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (Si). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the conflictive. All colibrations have been conducted in the cineed laboratory facility, environment temperature (22 a 3)°C and numidity < 70%. Celbration Equipment used (M&TE tritical for calibration) Primary Standards ID A Cal Date (Certificate No.) Scheduled Calibration Keitrley Multimeter Type 2001 SN: 0810278 03-Oct-14 (No:15573) Oct-15 Secondary Standards Check Date (in house) Scheduled Check Auto DAE Calibration Unit SE LWS 053 AA 1001 OG-Jan-15 (in house check) in house check: Jan-16 Calibrator Box Y2.1 SE UMS 006 AA 1002 06-Jan-15 (in house check) In house check: Jan-16 Calibrated by: Enc Hairrield Approved by: Firi Bomboli Deputy Technical Manage Issued August 25, 2015 This calibration certificate shall not be reproduced except in full without written approval of the laboratory

Certificate No. DAE4-1335_Aug15

Page 1 at 5

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 285 of 377

Calibration Laboratory of

Schmid & Partner Engineering AG Zoughausstrasse 42, 8004 Zurich, Switzerland





S Schweizerlacher Kallbrierdemst C Service sussa d'etakonnage Servizio avizzero di tarztura S Swies Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Survice (SAS)
The Swiss Accreditation Service is one of the signatures to the EA
Multilateral Agreement for the recognition of calibration certificates

Glossary

DAE data acquisition electronics

Connector angle information used in DASY system to align probe sensor X to the robot

coordinate system.

Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage, Influence of offset voltage is included in this measurement.
 - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
 - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
 - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
 - Input Offset Measurement. Output voltage and statistical results over a large number of zero voltage measurements.
 - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - Low Battery Alarm Voltage: Typical value for Information. Below this voltage, a battery alarm signal is generated.
 - Power consumption: Typical value for information. Supply currents in various operating modes.

Certificate No: DAE4-1335_Aug 15

Page 2 8/5

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號



Page: 286 of 377

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1µV , full range = -100...+300 mV Low Range: 1LSB = 61nV. full range = -1.....+3mV DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	x	Y	z
High Range	403.276 ± 0.02% (k=2)	403.573 ± 0.02% (k=2)	403.056 ± 0.02% (k=2)
Low Range	3.95163 ± 1.50% (k=2)	3.98593 ± 1.50% (k=2)	3.99669 ± 1.50% (k=2)

Connector Angle

Connector Angle t	to be used in DASY system		121.0°±1°

Certificate No: DAE4-1336_Aug15

Page 3 of 5

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 287 of 377

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (µV)	Difference (μV)	Error (%)
Channel X + Input	200039.73	3.06	0.00
Channel X + Input	20005.75	1.87	0.01
Channel X - Input	-20006.63	0.10	-0.00
Channel Y + Input	200040.44	3.89	0.00
Channel Y + Input	20002.50	-1.26	-0.01
Channel Y - Input	-20009.40	-2.57	0.01
Channel Z + Input	200042.26	5.60	0.00
Channel Z + Input	20002.80	-0.91	-0.00
Channel Z - Input	-20009.67	-2.80	0.01

Low Range	Reading (μV)	Difference (µV)	Error (%)
Channel X + Input	2000.27	0.19	0.01
Channel X + Input	199.51	-0.49	-0.24
Channel X - Input	-200.10	-0.12	0.06
Channel Y + Input	1999.75	-0.24	-0.01
Channel Y + Input	199.19	-0.66	-0.33
Channel Y - Input	-200.95	-0.99	0.49
Channel Z + Input	2000.22	0.38	0.02
Channel Z + Input	198.50	-1.33	-0.66
Channel Z - Input	-201.27	-1.23	0.61

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	5.53	4.41
	- 200	-3.35	-4.87
Channel Y	200	-3.56	-3.80
	- 200	3.14	2.36
Channel Z	200	20.99	21.07
	- 200	-24.35	-24.58

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voitage (mV)	Channel X (μV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	-	5.96	-1.54
Channel Y	200	8.46		7.20
Channel Z	200	8.25	6.18	

Certificate No: DAE4-1336_Aug15 Page 4 of 5

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 288 of 377

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)	
Channel X	15867	16258	
Channel Y	15914	16000	
Channel Z	15866	16245	

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input	10MΩ
1	

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	0.23	-0.56	1.25	0.37
Channel Y	0.11	-0.69	1.02	0.34
Channel Z	-1.22	-2.26	0.20	0.41

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25tA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

Certificate No: DAE4-1338_Aug15

Page 5 of 5

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 289 of 377

Calibration Laboratory of Schmid & Partner Engineering AG Zeoghausstrasse 43, 1994 Zurion, Switzerlan





Schweizerischer Kalibrierdiens Service stilsse d'étalonnage Servizio svizzero di taratura Selss Calibration Service

Accreditation No.: SCS 0108

According by the Swiss Accreditation Service (SAS)
The Swiss Accorditation Service is one of the signaturina to the IIIA
Multilularal Agreement for the recognition of calibration certificates

Clime SGS-TW (Auden)

Certificate No. EX3-3831_Jan15

CALIBRATION CERTIFICATE

Object EX3DV4 SN:3831

Caltrinion procedure(s) QA CAL-01 v9, QA CAL-14,v4, QA CAL-23,v5, QA CAL-25,v6

Calibration procedure for dosimetric E-field probes

Carlinson date: January 29, 2015

This calibrator certificate documents the traceability to natural numbers, which reside the physical units of measurements (Su). The massistements and the uncertainties with confidence presently and given on the following calges and see (set of the certificate

All calibrations have been conducted in the closed intolerary facility, envisionment temperature (22 ± 1/10 and numbely <70%)

Cartration Equipment used (MSTE critical for calibration)

Primary Standards	(D)	Cal Date (Certificate No.)	Scheduled Caribration
Power meter £44198	GB41293874	03-Apr-14 (No. 217-01911)	Apr-15
Power sensor E4412A	MY41498087	05-Apr-14 (No. 217-01911)	Api-15
Reterence 3 dB Attenuator	SN: 55054 (3t)	R3-Apr-14 (No. 217-81915)	April 5
Reference 20 dB Attenuator	SN S5277 (20x)	H3-Apr-14 (No. 217-01919)	Apr-15
Reference 30 dB Attenuator	SN: 55 (29 (30b)	II3-Api-14 (No. 217-01920)	Apr-15
Releience Phobe ES3DV2	SN: 3013	XV-Dec-14 (No. ES3-3013_Dec14)	Dec-15
DAE4	SN: 680	14-Jan-15 (No. DAE4-860) Jan15)	Jan-16
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HF 9646C	U83842U01700	4. Aug-50 (in house theck Apr. 13)	In house check: April 16.
Network Analyzer HP 8753E	135,37300585	/II-Oct-01 (in house check Oct-14)	In rigura chack: Oct-15

Name.	Fundion	Suraure
TIMON KERNIN	Laboratory Technolin	+ 1
(m) a Foxes in	Technical (tanager	fell the
		innums January 29, 2015
	THIRD KENNING	Jacon Kastrell Laboratory Technician

Certificate No: EX3-3831_Jan15

Page 1 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

www.tw.sas.com



Page: 290 of 377

Calibration Laboratory of Schmid & Partner Engineering AG aghanestrasse 43, 8004 Zurich, Switzerland





S Service surses d'etalo C Barvillo avillatiro di farajum Swiss Calibration Service

Accrecionin No.: SCS 0108

Accredied by the Swiss Accredition Service (8AS).

The Swee Accreditation Service is one of the econocree to the EA Mullimeral Agreement for the recognision of catheration certificates

Glossary:

tissue simulating liquid. T.S.L NORMa,y,z sensitivity in free space sensitivity in TSL / NORMx,y.z. diode compression point crest factor (1/dirty_cycle) of the RF signal modulation dependent invarization parameters DCP ABCD

Polerizallon o a rotation around probe axis

Polarization 5

a rotation around an exist that is in the plane normal to probe axis (at measurement center), i.e., It = 0 is normal to probe exte

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system.

Calibration is Performed According to the Following Standards: IEEE SM 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement

Techniques." June 2013
IEC 62209-1. "Procedure to measure the Specific Absorption Rate (SAR) for transferred devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005.

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f = 900 MHz in TEM-call f > 1800 MHz; R22 waveguide). NORMs, y, z are only infermediate values, i.e., the uncertainties of NORMs, y, z does not affect the E²-field uncertainty inside TSL (see below Contr²).
- MORM(f)x,y,z = MORMx,y,z * frequency_response (see F(equency Response Chart). This linearization is implemented in DASY4 software versions later their 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF
- DCRx.y.r. OCP are numerical linearization parameters assessed based on the data of power sweep with CVy signal (no uncertainty required). OCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated bull determined based on the signal
- Ay,y,z: Bx,y,z: Cx,y,z: Dx,y,z: VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor modils. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters. Assessed in flat phantom using E-field (or Temperature Transfer-Standard for t < 900 UH-z) and inside waveguide using analytical field distributions based on power measurements for t > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncortainty values are given. These parameters am-used in DASY4 software to improve prote accuracy close to the boundary. The sensitivity in TSL corresponds to NORMs, y.z.* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency depandent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical Legropy (3D devision from isotropy); in a field of low gludients realized using a flat phentom exposed by a patch enternal.
- Sensor Offset. The sensor offset corresponds to the offset of virtual measurement center from the probe up (on probe axis). No tolerance required
- Connector Angle. The angle is assessed using the Information gained by determining the NORMs (no. uncertainty required)

Certificate No: EX3 3831 Jan 16

Page 2 d 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The

Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技股份有限公司

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134號 t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sas.com



Page: 291 of 377

EX3DV4 - SN:3831

January 29, 2015

Probe EX3DV4

SN:3831

Manufactured: Calibrated:

September 6, 2011 January 29, 2015

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

Certificate No: EX3-3831_Jan15

Page 3 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 292 of 377

EX3DV4- SN:3831

January 29, 2015

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.45	0.42	0.43	± 10.1 %
DCP (mV) ⁸	99.7	101.1	100.8	

Modulation Calibration Parameters

UID	Communication System Name		A	B	С	D	VR	Unc
0	cw	-	dB	dB√μV		dB	mV	(k=2)
·	Car	X	0.0	0.0	1.0	0.00	152.6	±3.5 %
		7	0.0	0.0	1.0		143.5	
		Z	0.0	0.0	1.0		145.4	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: EX3-3831_Jan15

Page 4 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

www.tw.sas.com

[^] The uncertainties of NormX,Y,Z do not affect the E¹-faid uncertainty ineide TSL (see Pages 5 and 6).
Numerical linearization parameter: uncertainty not required.
Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the fluid value.



Page: 293 of 377

EX3DV4-- SN:3831

January 29, 2015

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

Calibration Parameter Determined in Head Tissue Simulating Media

Salibration	alibration Parameter Determined in Head Tissue Simulating Media											
f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ⁶	Depth ^G (mm)	Unet. (k=2)				
750	41.9	0.89	9.28	9.28	9.28_	0.31	0.99	± 12.0 %				
835	41.5	0.90	8.95	8.95	8.95	0.28	1.17	± 12.0 %				
900	41.5	0.97	8.76	8.76	8.76	0.25	1.23	± 12.0 %				
1450	40.5	1.20	7.92	7.92	7.92	0.13	1.92	± 12.0 %				
1750	40.1	1.37	7.75	7.75	7.75	0.32	0.89	± 12.0 %				
1900	40.0	1.40	7.58	7.58	7.58	0.63	0.65	± 12.0 %				
2000	40.0	1.40	7.48	7.48	7.48	0.80	0.57	± 12.0 %				
2300	39.5	1.67	7.09	7.09	7.09	0.27	0.99	± 12.0 %				
2450	39.2	1.80	6.81	6.81	6.81	0.51	0.68	± 12.0 %				
2600	39.0	1.96	6.54	6.54	6.54	0.28	1.01	± 12.0 %				
5250	35.9	4.71	4.60	4.60	4.60	0.40	1.80	± 13.1 %				
5600	35.5	5.07	4,14	4.14	4.14	0.45	1.80	± 13.1 %				
5750	35.4	5.22	4.41	4,41	4.41	0.45	1.80	± 13.1 %				

⁶ Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page Z), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.
⁷ At frequencies below 3 GHz, the validity of tissue parameters (a and a) can be relaxed to ± 10% if liquid compensation formuts is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (a and a) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty to inflictated larget tissue parameters.
⁸ At phatCapth are determined during calibration. SPEAC warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe fip dismeter from the boundary.

Certificate No: EX3-3831_Jan15

Page 5 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488



Page: 294 of 377

EX3DV4- SN:3831

January 29, 2015

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

Calibration Parameter Determined in Rody Tissue Simulating Media

alibration Parameter Determined in Body Tissue Simulating Media											
f (MHz) ^c	Relative Permittivity	Conductivity (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ⁶	Depth ^G (mm)	Unct. (k=2)			
750	55.5	0.96	9.07	9.07	9.07	0.20	1.58	± 12.0 %			
835	55.2	0.97	9.00	9.00	9.00	0.25	1.30	± 12.0 %			
900	55.0	1.05	8.87	8.87	8.87	0.33	1.00	± 12.0 %			
1450	54.0	1.30	7.68	7.68	7.68	0.19	1.44	± 12.0 %			
1750	53.4	1,49	7.50	7.50	7.50	0.40	0.89	± 12.0 %			
1900	53.3	1.52	7.34	7,34	7.34	0.31	1.06	± 12.0 %			
2000	53.3	1.52	7.41	7.41	7.41	0.33	0.98	± 12.0 %			
2300	52.9	1.81	7.08	7.08	7.08	0.40	0.89	± 12.0 %			
2450	52.7	1.95	6.81	6.81	6.81	0.44	0.80	± 12.0 %			
2600	52.5	2.16	6.65	6.65	6.65	0.80	0.58	± 12.0 %			
5250	48.9	5.36	3.92	3.92	3.92	0.50	1.90	± 13.1 %			
5600	48.5	5.77	3.49	3.49	3.49	0.55	1.90	± 13.1 %			
5750	48.3	5.94	3.70	3.70	3.70	0.55	1.90	± 13.1 %			

⁶ Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty of collection frequency and the encertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 100 MHz.
At frequencies below 3 GHz, the validity of tissue parameters (a and or) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (a and or) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
AphaCopth are determined during crititration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Certificate No: EX3-3831_Jan15

Page 6 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



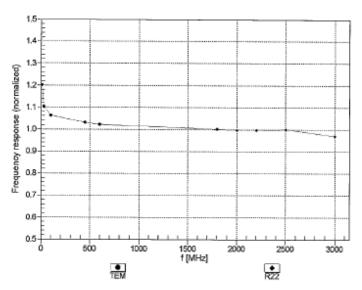
Page: 295 of 377

EX3DV4- SN:3831

January 29, 2015

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Certificate No: EX3-3831_Jan15 Page 7 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488

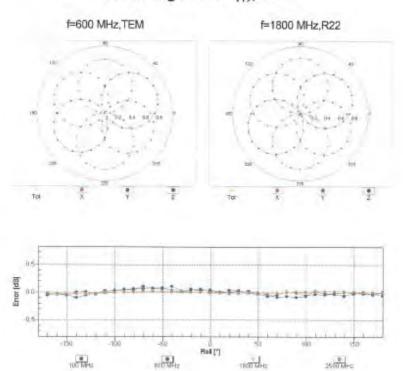
Member of SGS Group



Page: 296 of 377

EX30V4- SN:3831 January 29, 2015

Receiving Pattern (4), 9 = 0°



Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Certificate No: EX3-3831_Jan15

Page 8 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

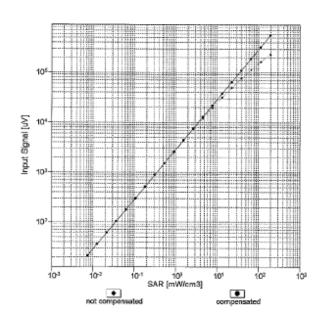


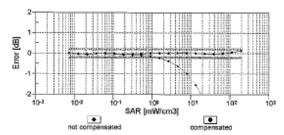
Page: 297 of 377

EX3DV4-SN:3831

January 29, 2015

Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Certificate No: EX3-3831_Jan15

Page 9 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

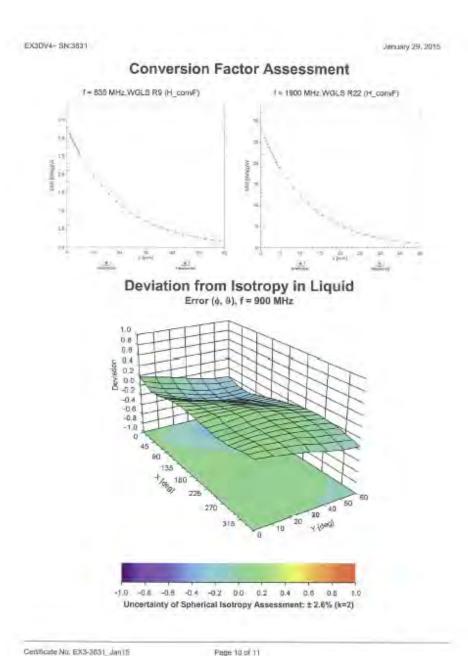
除非另有説明,此報告結果僅對測試乙樣品負責,同時此樣品僅保留90大。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 298 of 377



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

www.tw.sas.com



Page: 299 of 377

EX3DV4-SN:3831

January 29, 2015

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (*)	-20.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diarneter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Certificate No: EX3-3831_Jan15

Page 11 of 1

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 300 of 377

Calibration Laboratory of Schmid & Partner

Schmid & Partner
Engineering AG
Zeughauestrasse 43, 8604 Zurich, Switzerland





S Scriveizerecher Kalibrierdienst
C Service seisse d'étalonnage
Service seisse d'étalonnage
Service seisse d'étalonnage
Service Service

Accompliation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatures to the EA Multilateral Agreement for the recognition of calibration cartificates

Client

SGS-TW (Audan)

Certificate No: EX3-3831 Jan 16

CALIBRATION CERTIFICATE

Distect

QA CAL-01.V9, QA CAL-14 V4, QA CAL-23 V5, QA CAL-25 V6

Calibration procedure for desimetric E-field probes

Calibration date:

Calify room proceedurers)

January 27, 2016

EX3DV4 - SN:3831

This calibration conflicate documents the tracenbility to national standards, which modize the physical units of mensurements (5)). The measurements and the uccontenting with confidence probability are given on the following pages and are part of the confidence.

All collections have been conducted in the closed aboratory facility in winning of burgarding (2) ± 3) C and humbing = 70%

Calibration Equipment used (M&TE critical for calibration)

Primary Shandards	ID	Cai Date (Certificate No.)	Scheduled Colombian
Fower meter E44198	GB41293874	01-Apr-15 (No. 217-02138)	Mari-16
Fower sensor E4412A	MY45498087	01-Apr-15 (No. 217-02128)	War:16
Reference 3 dB Attenuated	SN: 85054 (3c)	01-Apr-15 (No. 217-02129)	Mark 16
Reference 30 dB Atlenuator	SN: 95277 (20a)	01-Apr-15 (No. 217-02132)	Mar-15
Refinance 30 dB Atturisation	SN: \$5129 (30th)	81-Apr-15 (No. 217-02133)	Mar-16
Reference Probe ESSDV2	SN 3013	51-Dac-15 (No. ES3-3013_Dec15)	Dec 16
DAG4	SN: 650	23-Dec-15 (No DAE4-RED ORC15)	Dec-16
Secondary Standards	10	Check Date (in house)	Scheduled Check
RF generator HP 5648C	US3642D01700	4-Aug-98 (in house check Apr-13)	In house check Apr-16
Nerwork Analyzas HP 87/STE	US37398565	18-Oct-01 (in house check Oct-15)	to house black. Dot. 10

Name	Function	Signature
.нюн Касган	Labjardory Techniques	f= le
Kinga Fishiovic	Turchristal Manager	RRH
		Issuest: January 26, 2010
	Jenny Kastrail	Jeogn Kescrall Labbretony Technique

Gertificate No. EX3-3831 Jan 19

Page 1 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 301 of 377

Calibration Laboratory of Schmid & Partner Engineering AG sigheisstrasse 43, 8004 Zurich, Switzerland





Schweizenscher Kalibriemienei S Service cuisse d'étalemage C Serveio avezne di tenduce S Seriou Calibration Service

Accreditation No.: SCS 0108

According by the Sales Accreditation Barrico (SAS)

The Swiss Accreditation Service is one of the signatorios to the EA Multilateral Agreement for the recognition of calibration certains

Glossary:

tissue simulating liquid NORMx,y,z sensitivity in tree space sensitivity in TSL / NORMx.y.z ConvP DOP

Glode compression point great factor (1/duty cycle) of the RF signal WEF A.B.C.D moduration dependent inserization parameters:

Polarization e u rolation around probe sois

a rotation around an axis final is in the plane normal to probe axis (at measurement center). Polarization %

i.e., % = 0 is normal to probe axis

information used in DASY system to align probe sensor X to the robul coordinate system

Calibration is Performed According to the Following Standards;

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement.

Techniques*, June 2013
 IEC 62209 1, Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)*, February 2006
 IEC 62209-2, Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices.

used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)*, March 2010

KDB 865664, 'SAR Measurement Requirements for 100 MHz to 8 GHz'

Methods Applied and Interpretation of Parameters:

NORMx,y,z: Assessed for E-field polarization II = 0 (f ≤ 900 MHz in TEM-cell; t > 1800 MHz; R22 waveguide), NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).

MORM(f)x,y,z = NORMx,y,z = frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.

DCPx,y,z: DCP are numerical inearization parameters assessed based on the data of power sweep with CNV signal (no uncertainty required). DCP does not depend on frequency nor media.

PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal

Ax.y.z. Bx.y.z. Cx.y.z. Dx.y.z. VRx.y.z. A, B, C. D are numerical linearization parameters assessed bised on the data of gower sweep for specific modulation signal. The parameters do not depend on frequency for media. VR is the meximum calibration range expressed in RMS voltage across the diode.

ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Slandard for f < 800 MHz) and inside waveguide using unalytical field distributions based on power measurements for 1 > 800 MHz. The same salups are used for assessment of the parameters applied for boundary comparisation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to engrove probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMs, y.z.* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency department ConvF ≈ used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100

Spherical isotropy (3D deviation from (solropy): In a field of low gradients realized rising a flat phantom exposed by a patch anlenne

Sensor Offset. The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe sxis). No tolerance required.

Connector Angle: The angle is assessed using the information gained by determining the NORMs (no uncertainty required)

Dertificate No: EX3-3831_Jan16

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 302 of 377

EX3DV4 - SN:3831

January 27, 2016

Probe EX3DV4

SN:3831

Manufactured: Calibrated: September 6, 2011 January 27, 2016

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

Certificate No: EX3-3831_Jan18

Page 3 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 303 of 377

EX3DV4-SN:3831

January 27, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

Basic Calibration Parameters

	Sensor X	Sensor X Sensor Y		Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.45	0.42	0.43	± 10.1 %
DCP (mV) ^R	100.7	102.6	99.9	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Une ⁴ (k=2)
0	CW	X	0.0	0.0	1.0	0.00	153.7	±3.3 %
		Y	0.0	0.0	1.0		139.5	
		Z	0.0	0.0	1.0		143.5	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: EX3-3831_Jan16

Page 4 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

A The uncertainties of Norm X,Y,Z do not effect the E²-field uncertainty inside TSL (see Pages 5 and 6).

Numerical linearization parameter: uncertainty not required.

Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the



Page: 304 of 377

EX3DV4- SN:3831

January 27, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^G	Relative Permittivity	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ⁸ (mm)	Unc (k=2)
750	41.9	0.89	9.38	9.38	9.38	0.23	1.35	± 12.0 %
835	41.5	0.90	8.84	8.84	8.84	0.19	1.62	± 12.0 %
900	41.5	0.97	8.77	8.77	8.77	0.20	1.51	± 12.0 %
1450	40.5	1.20	8.17	8.17	8.17	0.28	0.97	± 12.0 %
1750	40.1	1.37	7.92	7.92	7.92	0.41	0.80	± 12.0 %
1900	40.0	1.40	7.66	7.86	7.66	0.37	0.80	± 12.0 %
2000	40.0	1.40	7.61	7.61	7.61	0.32	0.80	± 12.0 %
2300	39.5	1.67	7.33	7.33	7.33	0.31	0.96	±12.0%
2450	39.2	1.80	6.92	6.92	6.92	0.27	1.09	± 12.0 %
2800	39.0	1.96	6.71	6.71	6.71	0.40	0.89	± 12.0 %
3500	37.9	2.91	6.41	6.41	6.41	0.42	1.03	±13.1 %
5200	36.0	4.66	4.76	4.76	4.76	0.35	1.80	± 13.1 %
5300	35.9	4.76	4.46	4.46	4.46	0.40	1.80	±13.1%
5600	35.5	5.07	4.08	4.08	4.08	0.50	1.80	± 13.1 %
5800	35.3	5.27	4.10	4.10	4.10	0.50	1.80	± 13.1 %

Frequency wildity above 300 MHz of ± 100 MHz only applies for DASY vd.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at disbestion frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

**A frequencies below 5 GHz, the validity of tissue parameters (c and e) can be released to ± 10% if flight compensation formule is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (c and e) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

**AphatDepth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Certificate No: EX3-3831_Jan16

Page 5 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

diameter from the boundary.



Page: 305 of 377

EX30V4- SN:3831

January 27, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

Calibration Parameter Determined in Body Tissue Simulating Media

anbrauon	bration Parameter Determined in Body Hissue Simulating Media							
f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ⁶	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	9.25	9.25	9.25	0.26	1.29	± 12.0 %
835	55.2	0.97	9.08	9.08	9.08	0.35	1.04	± 12.0 %
900	55.0	1.05	9.05	9.05	9.05	0.30	1.12	± 12.0 %
1750	53.4	1.49	7.74	7.74	7.74	0.27	1.01	± 12.0 %
1900	53.3	1.52	7.54	7.54	7.54	0.35	0.85	± 12.0 %
2000	53.3	1.52_	7.62	7.62	7.62	0.37	0.84	± 12.0 %
2300	52.9	1.81	7.06	7.06	7.06	0.35	0.80	± 12.0 %
2450	52.7	1.95	7.05	7.05	7.05	0.34	0.80	± 12.0 %
2600	52.5	2.16	6.71	6.71	6.71	0.37	0.80	± 12.0 %
5200	49.0	5.30	4.07	4.07	4.07	0.50	1.90	± 13.1 %
5300	48.9	5.42	_3.81	3.81	3.81	0.55	1.90	±13.1%
5600	48.5	5.77	3,47	3.47	3.47	0.55	1.90	± 13.1 %
5800	48.2	6.00	3.52	3.52	3.52	0.60	1.90	± 13.1 %

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 90 MHz. The uncertainty is the RSS of the Cernif uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 30 MHz is ± 10, 25, 40, 50 and 70 MHz for Cernif assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

*At frequencies below 3 GHz, the validity of tissue parameters (s and o) can be released to ± 10% if figuid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (s and o) is restricted to ± 5%. The uncertainty is the RSS of the Cornif uncertainty for indicated target issue parameters.

*Apha/Depth are determined during calibration. SPAG warrants that the remaining deviation due to the boundary effect other compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Certificate No: EX3-3831 Jen16

Page 6 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



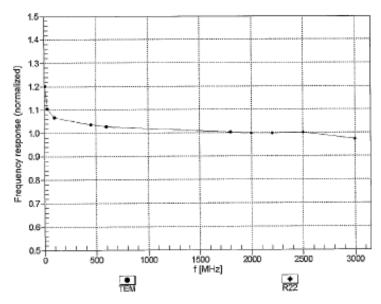
Page: 306 of 377

EX3DV4-SN:3831

January 27, 2016

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Certificate No: EX3-3831_Jan16

Page 7 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

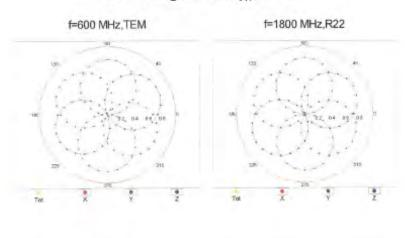


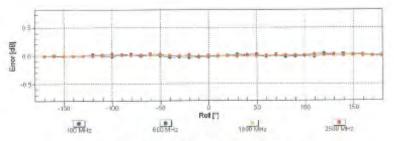
Page: 307 of 377

EX3DV4- SN:3831

January 27, 2016

Receiving Pattern (6), 9 = 0°





Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Certificate No: EX3-3831_Jan16

Page 8 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The

Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

SGS Taiwan Ltd.

www.tw.sgs.com

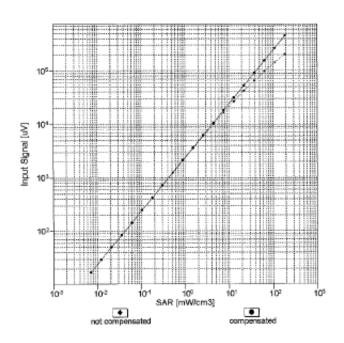


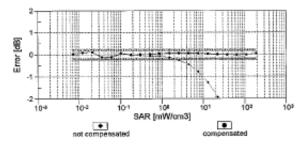
Page: 308 of 377

EX3DV4- SN:3831

January 27, 2016

Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Certificate No: EX3-3831_Jan16

Page 9 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

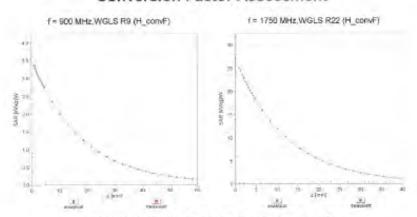
SGS Taiwan Ltd.



Page: 309 of 377

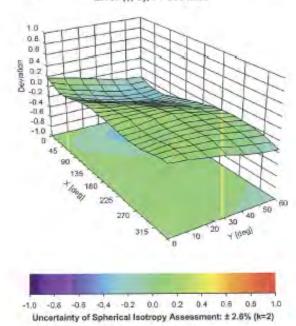


Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (6, 9), f = 900 MHz



Certificate No. EX3-3831_Jan16

Page 10 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 310 of 377

EX3DV4-SN:3831

January 27, 2016

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (*)	-20.3
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Certificate No: EX3-3831_Jan/16

Page 11 of 11

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留⁹⁰天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 311 of 377

8. Uncertainty Budget

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probabilit y	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	œ
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	×
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	œ
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	œ
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	œ
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	œ
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	œ
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	œ
Probe Positioning with respect to phantom	2.90%	R	√3	1.732	1	1	1.67%	1.67%	œ
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	œ
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	oo.
Deviation from reference liquid target ε 'r(Body)	1.03%	N	1	1	0.64	0.43	0.66%	0.44%	М
Deviation from reference liquid target σ (Body)	1.00%	N	1	1	0.6	0.49	0.60%	0.49%	М
Combined standard uncertainty		RSS					11.67%	11.64%	
Expant uncertainty (95% confidence							23.33%	23.28%	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 312 of 377

Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

			1						
А	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probabilit y	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Deviation from reference liquid target ε 'r(Body)	3.65%	N	1	1	0.64	0.43	2.34%	1.57%	М
Deviation from reference liquid target σ (Body)	3.85%	N	1	1	0.6	0.49	2.31%	1.89%	М
Combined standard uncertainty		RSS					11.80%	11.58%	
Expant uncertainty (95% confidence							23.60%	23.17%	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 313 of 377

9. Phantom Description

Schmid & Partner Engineering AG Zeughausstrases 42, 8004 Zurich, Switzerland Phone +41 1 245 9700, Fax +41 1 245 9779 Certificate of Conformity / First Article Inspection AM Twin Phantom V4.0 QD 000 P40 C TP-1150 and higher Type No eries No Manufacturer SPEAG Zeughausstrasse 43 CH-8004 Zürich Switzerland Tests The series production process used allows the limitation to test of first articles.

Complete tests were made on the pre-series Type No. QD 000 P40 AA. Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series items (called samples) or are tested at each item. Requirement Units tested Details IT'IS CAD File (*) Compliant with the geometry according to the CAD model First article, Samples 2mm +/- 0.2mm in flat Material thickness Compilant with the requirer according to the standards First article, Samples. and specific areas of head section 6mm +/- 0.2mm at ERP TP-1314 ff. Material thickness Compliant with the requirements First article. at ERP Materio according to the standards Dielectric parameters for required All Hems 300 MHz - 0 GHz: Moterial Relative permittivity < 5. Loss tangent < 0.05 DEGMBE based parameters frequencies samples The material has been tested to be compatible with the liquids defined in the standards if handled and cleaned Material resistivity Pre-series. simulating liquids First article, Material according to the instructions. samples Observe technical Note for material compatibility Compliant with the requirements < 1% typical < 0.8% if Blied with 155mm of HSL900 and without Sagging Prototypes. according to the standards. Sample Sagging of the flat section when filled testing with tissue simulating fiquid DUT below CENELEC EN 50361 IEEE Std 1528-2003

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standards [1] to [4]

07.07.2005

FCC OET Builetin 65, Supplement C, Edition 01-01
The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of

Salget & Pagner Engineering AQ Engineerings at 43, 8004 Zurich, Switzerland Pole Sales 97, 3 as 9700 Facilities 245 9779 Pole Sales 97, 245 9770 Facilities 245 9779

Doc Ho Mit - QD 000 PAD C - =

Signature / Stamp

(EC 62209 Part)

the other documents.

Photo

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 314 of 377

10. System Validation from Original Equipment Supplier

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdianst Service sulsse d'étalomage Servizie svizzere di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signaturies to the EA Multilateral Agreement for the recognition of calibration certificates

Client SGS-TW (Auden)

Certificate No: D750V3-1015_Aug15

CALIBRATION CERTIFICATE D750V3 - SN: 1015 Object QA CAL-05.v9 Calibration procedure(s) Calibration procedure for dipole validation kits above 700 MHz Calibration date: August 24, 2015 This calibration certificate documents the traceability to national standards, which resize the physical units of measurements (SI). The measurements and the uncertainties with confidence plobability are given on the following pages and are part of the pertilicate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards Cal Date (Certificate No.) Power meter EPM-#42A GB37480704 07-Oct-14 (No. 217-02020) Oct-15 Power sensor HP 8481A US37292783 07-Oct-14 (No. 217-02020) Oct-15 Power sensor HP 8481A MY41092317 07-Oct-14 (No. 217-02021) Oct-15 Reference 20 dB Atternator SN: 5058 (20k) 01-Apr-15 (No. 217-02131) Mar-16 Type-N mismatch combination SN: 5047,2 / 06327 01-Apr-15 (No. 217-02134) Mar-16 Reference Probe ES30V3 SN: 3205 30-Dec-14 (No. ES3-3205_Dec14) Dec-15 DAEA SN: 801 17-Aug-15 (No DAE4-601_Aug15) Aug-16 Check Date (in house) Secondary Standards Scheduled Check FIF generator R&E EMT 05 100005 04-Aug-99 (in house check Oct-13) hi huuse uhuuk. Oul-th Network Analyzer HP 8753E US37390585 S4206 18-Oct-01 (in house check Oct-14) In house check: Oct-15 Function Calibrated by Michael Weber Laboratory Technician Approved by: Kalja Pokuvid Technical Marager Issued, August 24, 2015 This calibration certificate shall not be reproduced except in full without written approval of the aboratory

Certificate No: D750V3-1015_Aug15

Page 1 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 315 of 377

Calibration Laboratory of

Schmid & Partner Engineering AG Zoughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Sarvizio sylzzero di taratura
S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signetories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL tissue simulating liquid
ConvF sensitivity in TSL / NORM x,y,z
N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- EC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: 0750V3-1015_Aug15

Page 2 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司



Page: 316 of 377

Measurement Conditions

DASY system configuration, as far as not given on page 1

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.1 ± 6 %	0.91 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.07 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.15 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.33 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	56.3 ± 6 %	1.00 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.19 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	8.52 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.44 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	5.63 W/kg ± 16.5 % (k=2)

Certificate No: D750V3-1015_Aug15

Page 3 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 317 of 377

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52,2 Ω - 1.1 jΩ
Return Loss	- 32.5 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.5 Ω - 2.4 jΩ
Return Loss	- 30.9 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.036 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the 'Measurement Conditions' paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	March 22, 2010

Certificate No: D750V3-1015_Aug15 Page 4 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 318 of 377

DASY5 Validation Report for Head TSL

Date: 21.08.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1015

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz; $\sigma = 0.91 \text{ S/m}$; $\varepsilon_r = 42.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard; DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 SN3205; ConvF(6.44, 6.44, 6.44); Calibrated: 30.12,2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 17.08.2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 53.39 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.07 W/kg

SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.35 W/kgMaximum value of SAR (measured) = 2.43 W/kg



0 dB = 2.43 W/kg = 3.86 dBW/kg

Certificate No: D750V3-1015_Aug15

Page 5 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

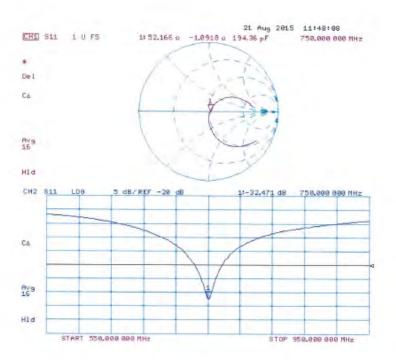
SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488



Page: 319 of 377

Impedance Measurement Plot for Head TSL



Certificate No: D750V3-1015_Aug15

Page 6 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 320 of 377

DASY5 Validation Report for Body TSL

Date: 24.08.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1015

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz; $\sigma = 1 \text{ S/m}$; $\varepsilon_r = 56.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard; DASY5 (IEEE/IEC/ANSI C63.19-2011)

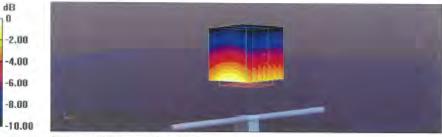
DASY52 Configuration:

- Probe: ES3DV3 SN3205; ConvF(6.21, 6.21, 6.21); Calibrated: 30.12.2014;
- · Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 17.08.2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 52.22 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.19 W/kg SAR(1.e) = 2.19 W/kg; SAR(10.e) = 1.44 W/kg

SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.44 W/kgMaximum value of SAR (measured) = 2.56 W/kg



0 dB = 2.56 W/kg = 4.08 dBW/kg

Certificate No: D750V3-1015_Aug15

Page 7 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

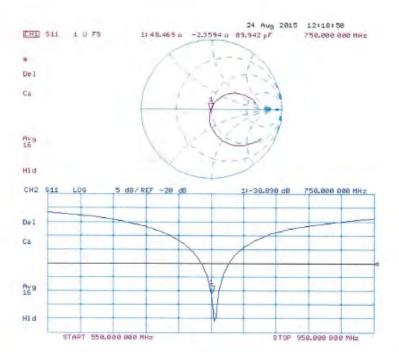
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

www.tw.sas.com



Page: 321 of 377

Impedance Measurement Plot for Body TSL



Certificate No: D750V3-1015_Aug15

Page 8 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 322 of 377

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst S Service suisse d'étalonnage C Servizio svizzero di taratura S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

SGS-TW (Auden) Certificate No: D835V2-4d063 Aug15 Client CALIBRATION CERTIFICATE Object D835V2 - SN: 4d063 Calibration procedure(s) QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz Calibration date: August 24, 2015 This calibration continuate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and numidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards ID-# Cal Date (Certificate No.) Scheduled Calibration GB37480704 Power meter EPM-442A 07-Oct-14 (No. 217-02020) Oct-15 Power sensor HP 8481A US37292783 07-Oct-14 (No. 217-02020) Oct-15 Power sensor HP 8481A MY41092317 07-Oct-14 (No. 217-02021) Oct-15 Reference 20 dB Attenuator SN: 5058 (20k) 01-Apr-15 (No. 217-02131) Mar-16 Type-N mismatch combination SN: 5047.2 / 06327 01-Apr 15 (No. 217-02134) Mar-16 Reference Probe ES3DV3 SN: 3205 30-Dec-14 (No. ES3-3205_Dec14) Dec-15 DAE4 SN: 601 17-Aug-15 (No. DAE4-601_Aug15) Aug-16 Secondary Standards 10.4 Check Date (in house) Scheduled Check RF generator R&S SMT-06 100005 04-Aug 99 (in house check Oct-13) In house check: Oct-16 US37390585 \$4206 Network Analyzer HP 8753E 18-Oct-01 (in house check Oct-14) In house check: Oct-15 Name Function Calibrated by Michael Weber Laboratory Technician Katja Pokovic Technical Manager Approved by issued: August 25, 2015 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D835V2-4d063 Aug15 Page 1 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

www.tw.sas.com



Page: 323 of 377

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibnordienst Service suisse d'étaloimage C Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS).

The Swiss Accreditation Service is one of the signaturies to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL tissue simulating liquid ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, *Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)*, March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Condicate No: DR35V2-46053 Aug 15

Page 2 ni B

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488

www.tw.sas.com



Page: 324 of 377

Measurement Conditions

DASY system configuration, as far as not given on page 1

27.5 1 System comiguration, as far as not given on page 1.		
DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	41.9 ± 6 %	0.93 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.11 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ⁵ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.52 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.97 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	56.1 ± 6 %	1.02 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.40 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	9.28 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.57 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	6.11 W/kg ± 16.5 % (k=2)

Certificate No: D835V2-4d063_Aug15

Page 3 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 325 of 377

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.3 Ω - 1.7 jΩ
Return Loss	- 33.4 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.9 Ω - 2.7 jΩ
Return Loss	- 29.1 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.394 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	November 27, 2006

Certificate No: D835V2-4d063_Aug15 Page 4 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 326 of 377

DASY5 Validation Report for Head TSL

Date: 21.08.2015

Test Laboratory; SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d063

Communication System; UID 0 - CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 0.93 \text{ S/m}$; $\varepsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 SN3205; ConvF(6.2, 6.2, 6.2); Calibrated; 30.12.2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 17,08.2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 55.92 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 3.44 W/kg

SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.52 W/kgMaximum value of SAR (measured) = 2.73 W/kg



0 dB = 2.73 W/kg = 4.36 dBW/kg

Certificate No: D835V2-4d063, Aug15

Page 5 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

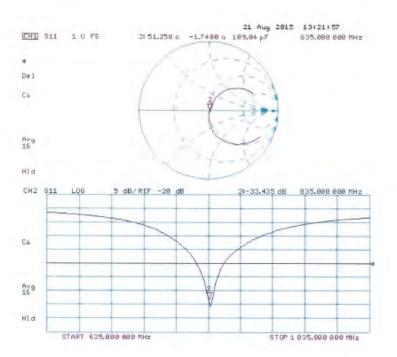
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 327 of 377

Impedance Measurement Plot for Head TSL



Certificate No: D835V2-4d063_Aug15

Page 6 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 328 of 377

DASY5 Validation Report for Body TSL

Date: 24.08.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d063

Communication System: UID 0 - CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 1.02 \text{ S/m}$; $\epsilon_r = 56.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

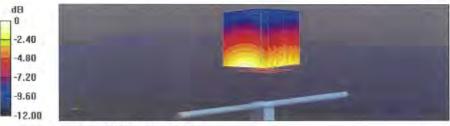
- Probe: ES3DV3 SN3205; ConvF(6.17, 6.17, 6.17); Calibrated: 30.12.2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 17.08.2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 54.07 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.52 W/kg SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.57 W/kg

Maximum value of SAR (measured) = 2.81 W/kg



0 dB = 2.81 W/kg = 4.49 dBW/kg

Certificate No: D835V2-4d063 Aug 15

Page 7 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

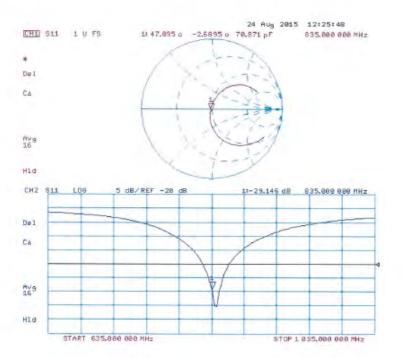
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488

www.tw.sas.com



Page: 329 of 377

Impedance Measurement Plot for Body TSL



Certificate No: D835V2-4d063_Aug15

Page 8 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 330 of 377

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client SGS-TW (Auden)

Certificate No: D1750V2-1008 Aug 15

Object	D1750V2 - SN: 1	800	
Calibration procedura(s)	QA CAL-05.v9 Calibration proce	dure for dipole validation kits abo	ove 700 MHz
Calibration date,	August 20, 2015		
This calibration certificate docum	ents the traceability to nati	ional standards, which realize the physical un robability are given on the following pages ar	nits of measurements (SI), nd are part of the certificate.
All calibrations have been condu	cted in the closed laborator	ry facility. unvironment temperature (22 ± 3)°	C and humidity < 70%.
Calibration Equipment used (M&	TE critical for calibration)		
	TE critical for calibration)	Cal Date (Certificate No.)	Scheduled Calibration
Primary Standards Power meter EPM-442A		Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020)	Scheduled Calibration Oct-15
Primary Standards Power meter EPM-442A Power sensor HP 8481A	ID # GB37480704 US37292783		
Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A	ID # GB37480704 US37292783 MY41092317	07-Oct-14 (No. 217-02020)	Oct-15
Primary Standards Power meter EPM-442A Power sensor HP 8461A Power sensor HP 8461A Reference 20 dB Attenuator	ID # GB37480704 US37292783	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131)	Oct-15 Oct-15
Primary Standards Power meter EPM-442A Power sensor HP 8461A Power sensor HP 8461A Reference 20 dB Attenuator Type-N mismatch combination	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021)	Oct-15 Oct-15 Oct-15
Primary Standards Power meter EPM-442A Power sensor HP 8461A Power sensor HP 8461A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14)	Oct-15 Oct-15 Oct-15 Mar-16
Primary Standards Power meter EPM-442A Power sensor HP 8461A Power sensor HP 8461A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134)	Oct-15 Oct-15 Oct-15 Mar-16 Mar-16
Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8461A Power sensor HP 8461A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ESS-3205_Dec14) 17-Aug-15 (No. DAE4-601_Aug15)	Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-16
Primary Standards Power meter EPM-442A Power sensor HP 8461A Power sensor HP 8461A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 5047.2 / 06327 SN: 601	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 17-Aug-15 (No. DAE4-601_Aug15) Check Date (in house)	Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-18 Scheduled Check
Calibration Equipment used (M& Primary Standards Power mater EPM-442A Power sensor HP 8481A Power sensor HP 9461A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards AF generator R&S SMT-06 Network Analyzer HP 8753E	ID # GB37480704 US3729/2783 MY4109/2317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ESS-3205_Dec14) 17-Aug-15 (No. DAE4-601_Aug15)	Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-16
Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards RF generator R&S SMT-06	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047 2 / 06327 SN: 3205 SN: 601 ID # 100006 US37390585 \$4206	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Occ-14 (No. E53-3205_Dec14) 17-Aug-15 (No. DAE4-601_Aug15) Check Date (in house) 04-Aug-99 (in house check Oct-13) 18-Oct-01 (in house check Oct-14)	Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-18 Scheduled Check In house check: Oct-15 In house check: Oct-15
Primary Standards Power meter EPM-442A Power sensor HP 8461A Power sensor HP 8461A Peterence 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards RE generator RES SMT-06 Network Analyzer HP 8753E	ID # GB37480704 US3729/2783 MY4109/2317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601 ID # 190006 US37390585 \$4206	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Occ-14 (No. E93-3205_Dec14) 17-Aug-15 (No. DAE4-601_Aug15) Check Date (in house) 04-Aug-99 (in house check Oct-13) 18-Oct-01 (in house check Oct-14)	Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-16 Scheduled Check
Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards RF generator RSS SMT-06 Network Analyzer HP 8753E	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047 2 / 06327 SN: 3205 SN: 601 ID # 100006 US37390585 \$4206	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Occ-14 (No. E53-3205_Dec14) 17-Aug-15 (No. DAE4-601_Aug15) Check Date (in house) 04-Aug-99 (in house check Oct-13) 18-Oct-01 (in house check Oct-14)	Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-18 Scheduled Check In house check: Oct-15 In house check: Oct-15
Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards RF generator R&S SMT-06	ID # GB37480704 US3729/2783 MY4109/2317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601 ID # 190006 US37390585 \$4206	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Occ-14 (No. E93-3205_Dec14) 17-Aug-15 (No. DAE4-601_Aug15) Check Date (in house) 04-Aug-99 (in house check Oct-13) 18-Oct-01 (in house check Oct-14)	Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-18 Scheduled Check In house check: Oct-15 In house check: Oct-15

Certificate No: D1750V2-1008_Aug15

Page 1 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 331 of 377

Calibration Laboratory of Schmid & Partner Engineering AG Zoughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kallbrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilatoral Agreement for the recognition of calibration certificates

Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)*, February 2005
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
 d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss. These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D1750V2-1008_Aug15

Page 2 of 6

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 332 of 377

Measurement Conditions

DASY system configuration, as far as not given on page 1

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.1	1.37 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.8 ± 6 %	1.36 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.12 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	36.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.85 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	19.4 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.4	1.49 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.1 ± 6 %	1.48 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		even.

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.36 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	37.4 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.05 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.2 W/kg ± 16.5 % (k=2)

Certificate No: D1750V2-1008_Aug15

Page 3 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 333 of 377

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.5 Ω + 1.1 jΩ
Return Loss	- 38.7 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.9 Ω + 1.0 jΩ
Return Loss	- 29.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.221 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	February 11, 2009

Certificate No: D1750V2-1008 Aug15

Page 4 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 334 of 377

DASY5 Validation Report for Head TSL

Date: 20.08,2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1008

Communication System: UID 0 - CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.36 \text{ S/m}$; $\varepsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 SN3205; ConvF(5.2, 5.2, 5.2); Calibrated: 30.12.2014;
- · Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 17.08.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 95.15 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 16.3 W/kg SAR(1 g) = 9.12 W/kg; SAR(10 g) = 4.85 W/kgMaximum value of SAR (measured) = 11.5 W/kg



0 dB = 11.5 W/kg = 10.61 dBW/kg

Certificate No: D1750V2-1008_Aug15

Page 5 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

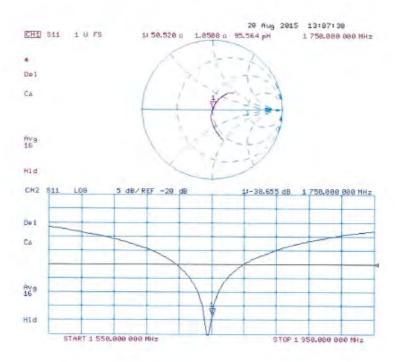
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 335 of 377

Impedance Measurement Plot for Head TSL



Certificate No: D1750V2-1008_Aug15

Page 6 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 336 of 377

DASY5 Validation Report for Body TSL

Date: 20.08.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1008

Communication System: UID 0 - CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.48 \text{ S/m}$; $\varepsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

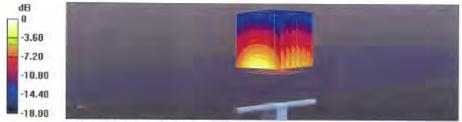
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe; ES3DV3 SN3205; ConvF(4.88, 4.88, 4.88); Calibrated: 30.12.2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 17.08.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 93.12 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 16.1 W/kg SAR(1 g) = 9.36 W/kg; SAR(10 g) = 5.05 W/kgMaximum value of SAR (measured) = 11.8 W/kg



0 dB = 11.8 W/kg = 10.72 dBW/kg

Certificate No: D1750V2-1008_Aug15

Page 7 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

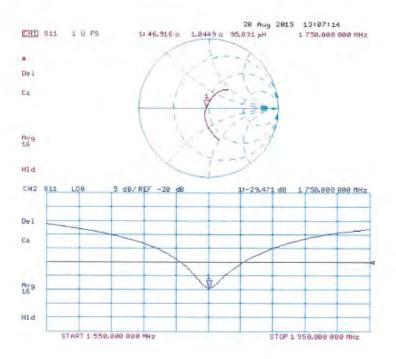
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 337 of 377

Impedance Measurement Plot for Body TSL



Certificate No: D1750V2-1008_Aug15

Page 8 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 338 of 377

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

CALIBRATION C	ENTIFICATE		
Object	D1900V2 - SN:50	1027	
Calibration procedure(s)	QA CAL-05.v9 Calibration proces	dure for dipole validation kits abo	ve 700 MHz
Calibration date:	April 29, 2015		
		onal standards, which realize the physical un- robability are given on the following pages an	
		ry facility: environment temperature $(22 \pm 3)^{\circ}$ 0	C and humidity < 70%.
Calibration Equipment used (M&	TE critical for calibration)		
All calibrations have been conducted (M& Calibration Equipment used (M& Primary Standards Power meter EPM-442A		ry facility: environment temperature (22 ± 3)°C Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020)	C and humidity < 70%. Scheduled Calibration Oct-15
Calibration Equipment used (M&	TE critical for calibration)	Cal Date (Certificate No.)	Scheduled Calibration
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A	TE critical for calibration) ID # GB37480704	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020)	Scheduled Calibration Oct-15
Calibration Equipment used (M& Primary Standards Power meter EPM-442A	TE critical for calibration) ID # GB37480704 US37292783	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020)	Scheduled Calibration Oct-15 Oct-15
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator	ID # GB37480704 US37292783 MY41092317	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021)	Scheduled Calibration Oct-15 Oct-15 Oct-15
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k)	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131)	Scheduled Calibration Oct-15 Oct-15 Mar-16
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-601_Aug14) Check Date (in house)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 801	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-601_Aug14)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-601_Aug14) Check Date (in house)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15 Scheduled Check
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 801 ID # 100005 US37390585 S4206	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-601_Aug14) Check Date (in house) 04-Aug-99 (in house check Oct-13) 18-Oct-01 (in house check Oct-14)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15 Scheduled Check In house check: Oct-16 In house check: Oct-15
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards RF generator R&S SMT-06 Network Analyzer HP 8753E	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601 ID # 100005 US37390585 S4206	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-601_Aug14) Check Date (in house) 04-Aug-99 (in house check Oct-13) 18-Oct-01 (in house check Oct-14)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15 Scheduled Check In house check: Oct-16
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 801 ID # 100005 US37390585 S4206	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-601_Aug14) Check Date (in house) 04-Aug-99 (in house check Oct-13) 18-Oct-01 (in house check Oct-14)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15 Scheduled Check In house check: Oct-16 In house check: Oct-15

Certificate No: D1900V2-5d027 Apr15 Page 1 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 339 of 377

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
Service suiese d'étalonnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- EC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- c) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D1900V2-5d027_Apr15

Page 2 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 340 of 377

Measurement Conditions

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy , $dz = 5 mm$	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters

ng parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.6 ± 6 %	1.37 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	10.1 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	40.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.30 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.3 W/kg ± 16.5 % (k=2)

Body TSL parameters

n parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.8 ± 6 %	1.50 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.78 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	39.3 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.20 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.9 W/kg ± 16.5 % (k=2)

Certificate No: D1900V2-5d027_Apr15

Page 3 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be

prosecuted to the fullest extent of the law. SGS Taiwan Ltd.



Page: 341 of 377

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.2 Ω + 2.5 jΩ
Return Loss	- 32.2 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	$46.5 \Omega + 2.5 j\Omega$
Return Loss	- 27.0 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.197 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	December 17, 2002

Certificate No: D1900V2-5d027_Apr15

Page 4 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Page: 342 of 377

DASY5 Validation Report for Head TSL

Date: 29.04.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d027

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.37 \text{ S/m}$; $\varepsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe; ES3DV3 - SN3205; ConvF(5, 5, 5); Calibrated: 30.12.2014;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 18.08.2014

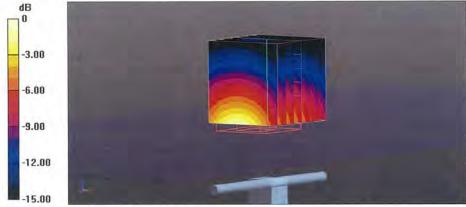
Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 97.71 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 18.5 W/kg SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.3 W/kg

Maximum value of SAR (measured) = 12.3 W/kg



0 dB = 12.3 W/kg = 10.90 dBW/kg

Certificate No: D1900V2-5d027_Apr15

Page 5 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

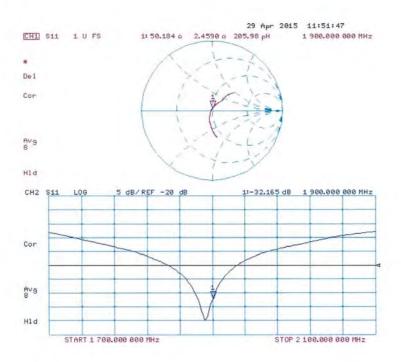
therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 343 of 377

Impedance Measurement Plot for Head TSL



Certificate No: D1900V2-5d027_Apr15

Page 6 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 344 of 377

DASY5 Validation Report for Body TSL

Date: 29.04.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d027

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.5$ S/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: ES3DV3 - SN3205; ConvF(4.65, 4.65, 4.65); Calibrated: 30.12.2014;

· Sensor-Surface: 3mm (Mechanical Surface Detection)

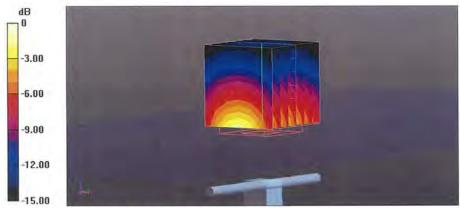
Electronics: DAE4 Sn601; Calibrated: 18.08.2014

Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 94.63 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 16.7 W/kg SAR(1 g) = 9.78 W/kg; SAR(10 g) = 5.2 W/kg Maximum value of SAR (measured) = 12.4 W/kg



0 dB = 12.4 W/kg = 10.93 dBW/kg

Certificate No: D1900V2-5d027_Apr15

Page 7 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

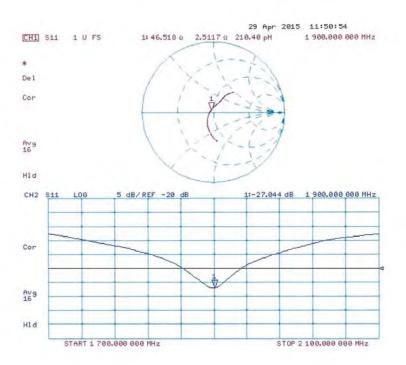
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 345 of 377

Impedance Measurement Plot for Body TSL



Certificate No: D1900V2-5d027_Apr15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Page 8 of 8

SGS Taiwan Ltd.



Page: 346 of 377

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst S Service suisse d'étalonnage C Servizio svizzero di taratura S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

CALIBRATION C	ERTIFICATE		
Object	D2450V2 - SN: 7	27	
Calibration procedure(s)	QA CAL-05.v9 Calibration proces	dure for dipole validation kits abo	ive 700 MHz
Calibration date:	April 22, 2015		
		robability are given on the following pages an	
		ry facility: environment temperature (22 \pm 3) $^\circ$ C	s and numidity < 70%.
Calibration Equipment used (M&	TE critical for calibration)		Sand numberty < 70%. Scheduled Calibration
Calibration Equipment used (M&		ry facility: environment temperature (22 ± 3)°C Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020)	
Calibration Equipment used (M& Frimary Standards Power meter EPM-442A	TE critical for calibration)	Cal Date (Certificate No.)	Scheduled Calibration
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A	TE critical for calibration) ID # GB37480704	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020)	Scheduled Calibration Oct-15
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A	TE critical for calibration) ID # GB37480704 US37292783	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mär-16
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134)	Scheduled Calibration Oct-15 Oct-15 Mar-16 Mar-16
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3	TE critical for calibration) ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mär-16
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-801_Aug14)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-801_Aug14) Check Date (in house)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15 Scheduled Check
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-801_Aug14)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15 Scheduled Check In house check: Oct-16
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards RF generator R&S SMT-06	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601 ID # 100005	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-601_Aug14) Check Date (in house) 04-Aug-99 (in house check Oct-13)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15 Scheduled Check In house check: Oct-16
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards RF generator R&S SMT-06 Network Analyzer HP 8753E	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601 ID # 100005 US37390585 S4206	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-601_Aug14) Check Date (in house) 04-Aug-99 (in house check Oct-13) 18-Oct-01 (in house check Oct-14)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15 Scheduled Check In house check: Oct-16 In house check: Oct-15
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards RF generator R&S SMT-06	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601 ID # 100005 US37390585 S4206	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-601_Aug14) Check Date (in house) 04-Aug-99 (in house check Oct-13) 18-Oct-01 (in house check Oct-14)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15 Scheduled Check In house check: Oct-16 In house check: Oct-15
Calibration Equipment used (M& Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards RF generator R&S SMT-06 Network Analyzer HP 8753E	ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601 ID # 100005 US37390585 S4206	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-601_Aug14) Check Date (in house) 04-Aug-99 (in house check Oct-13) 18-Oct-01 (in house check Oct-14)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15 Scheduled Check In house check: Oct-16 In house check: Oct-15

Page 1 of 8 Certificate No: D2450V2-727 Apr15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 347 of 377

Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service sulsse d'étalonnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- iEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- EC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- c) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The Impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- · SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D2450V2-727_Apr15

Page 2 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司



Page: 348 of 377

Measurement Conditions

as far as not given on page 1

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.6 ± 6 %	1.82 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.2 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.0 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.10 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.2 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	50.6 ± 6 %	2.02 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.1 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	51.0 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.10 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.0 W/kg ± 16.5 % (k=2)

Certificate No: D2450V2-727_Apr15 Page 3 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

www.tw.sgs.com



Page: 349 of 377

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	56.2 Ω + 1.3 jΩ
Return Loss	- 24.6 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	51.8 Ω + 3.3 jΩ
Return Loss	- 28.6 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.149 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	January 09, 2003

Certificate No: D2450V2-727_Apr15 Page 4 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 350 of 377

DASY5 Validation Report for Head TSL

Date: 22.04.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 727

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.82 \text{ S/m}$; $\varepsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

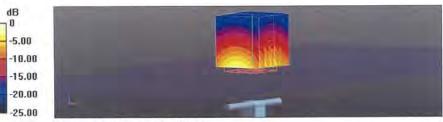
- Probe: ES3DV3 SN3205; ConvF(4.54, 4.54, 4.54); Calibrated: 30.12.2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 101.5 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 27.4 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.1 W/kgMaximum value of SAR (measured) = 17.5 W/kg



0 dB = 17.5 W/kg = 12.43 dBW/kg

Certificate No: D2450V2-727_Apr15

Page 5 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

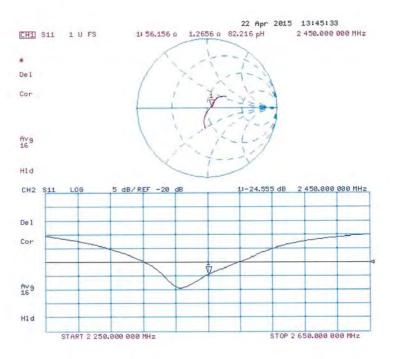
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488

www.tw.sas.com



Page: 351 of 377

Impedance Measurement Plot for Head TSL



Certificate No: D2450V2-727_Apr15

Page 6 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 352 of 377

DASY5 Validation Report for Body TSL

Date: 22.04.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 727

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 2.02$ S/m; $\varepsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: ES3DV3 - SN3205; ConvF(4.32, 4.32, 4.32); Calibrated: 30.12.2014;

· Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 18.08.2014

Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002

DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 95.54 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 27.2 W/kg SAR(10 g) = 13.1 W/kg: SAR(10 g) = 6.1 W/kg

SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.1 W/kgMaximum value of SAR (measured) = 17.4 W/kg



0 dB = 17.4 W/kg = 12.41 dBW/kg

Certificate No: D2450V2-727_Apr15 Page 7 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

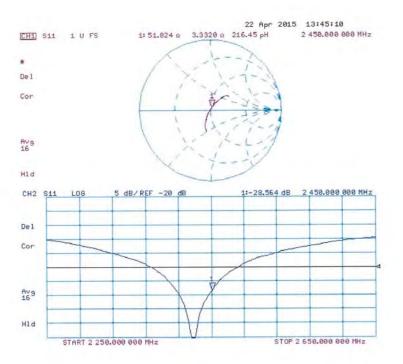
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 353 of 377

Impedance Measurement Plot for Body TSL



Certificate No: D2450V2-727_Apr15 Page 8 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 354 of 377

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrabse 43, 8004 Zurich, Switzerland





S Service suisse d'étalonnage C Servizio svizzaro di taratura Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS).

The Swiss-Accreditation Service is one of the rightfories to the EA Multilateral Agreement for the recognition of calibration certificates

Client SGS-TW (Auden)

Accreditation No.: SCS 0108

Certificate No: D2600V2-1005_Jan15

AL THE HALL	ERTIFICATE		
36ject	D2600V2 - SN: 1	005	
Cultimition precedurals)	QA CAL-05 v9 Calibration proces	dure for dipole validation kits abo	we 700 MHz
Calibration clare:	January 27, 2015		
		onal standanto, which restice the thysical bin robubility are given on the following pages on	
All cultivations have been condu	oted in the closed laborator	ry tacility; environment temperature (32 ± 371	C and humidry < 70%
Calibration Equipment used (MS	TE critical for calibration		
	TE critical for calibration	Cali Date (Ceraficate No.)	Schedung Calibration
Primary Standards		07-Oct-14 (No. 217-02020)	Dd-15
Primary Standards Fower creter EPM-142A Power sensor HP 8481A	ID# GB67480704 U537292783	87-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020)	Def-15 Oct-15
Primary Standards Power creder EPM-442A Power sensor HP 8481A Power sensor HP 8481A	ID # GB07460704 US37292763 MY41092317	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021)	Del-15 Osf-15 Del-15
Primary Standards Power rester (I*M-142A Power sensor HP 8481 A Power sensor HP 8481A Reterence 20 dB Attenuator	ID # GB57460704 US37292763 MY41092317 SN: 5056 (20k)	07-Oct-14 (No. 217-02000) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 03-Apr-14 (No. 217-01916)	Out-15 Out-15 Out-15 Apr-15
Primary Standards Flower meter EPM-42A Power sensor HP 8481 A Power sensor HP 8481 A Reference 20 dB Attenuator Type-N mismatch combination	ID # GB57486754 US37282783 MY41092517 SN: 5056 (20x) SN: 5047.2 / 06327	07-04:14 (No. 217-02020) 07-04:14 (No. 217-02020) 07-04:14 (No. 217-02021) 03-Apr-14 (No. 217-01916) 03-Apr-14 (No. 217-01921)	Del-15 Oct-15 Dot-15 Apr-15 Apr-15
Primary Standards Fower regier EPM-442A Power sensor HIP 9881 A Power sensor HIP 9481 A Reference 20 dB Attenuator Typo-N mematich combination Reference Probe ES30V3	ID A GB57466754 US37292783 MY41092317 SR; 5040 (200 SR; 5047.2 / 06927 SR; 3205	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 03-Apr-14 (No. 217-01916) 03-Apr-14 (No. 217-01921) 30-Dec-14 (No. ES3-3205_Dect4))	Del-15 Oct-15 Oct-15 Apr-15 Apr-15 Dec-15
Primary Standards Fower review EPM-442A Power sensor HIP 9481 A Power sensor HIP 9481 A Reference 20 dB Attenuator Type-N memaich combination Reference Probe ES30V3	ID # GB57486754 US37282783 MY41092517 SN: 5056 (20x) SN: 5047.2 / 06327	07-04:14 (No. 217-02020) 07-04:14 (No. 217-02020) 07-04:14 (No. 217-02021) 03-Apr-14 (No. 217-01916) 03-Apr-14 (No. 217-01921)	Del-15 Oct-15 Dot-15 Apr-15 Apr-15
Calibration Equipment used (Mili- Primary Standards Power stellar EPM-442A Power stellar FIM-442A Power stellar FIP 9481A Reference 20 dB Attenuator Type-N miematch combination Reference Probe ESSOV3 DAE4 Secondary Standards	ID A GB57466754 US37292783 MY41092317 SR; 5040 (200 SR; 5047.2 / 06927 SR; 3205	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 03-Apr-14 (No. 217-01916) 03-Apr-14 (No. 217-01921) 30-Dec-14 (No. ES3-3205_Dect4))	Del-15 Oct-15 Oct-15 Apr-15 Apr-15 Dec-15
Primary Standards Power reder EPM-142A Power sensor HP 8481 A Power sensor HP 8481 A Reference 20 dB Attenuator Type-N miematch cerebination Reference Probe ES30V3 DAE4 Secondary Standards	ID # GB57480704 US37292783 MY41092517 SR: 5060 (204) SR: 5047.2 / 06327 SR: 3205 SR: 601	07-Oct-14 (No. 217-02020) 07-Oct-18 (No. 217-02020) 07-Oct-14 (No. 217-02021) 03-Apr-14 (No. 217-01916) 03-Apr-14 (No. 217-01921) 30-Oct-14 (No. ESS-8205, Dectal) 18-Aug-14 (No. DAE4-601, Aug14)	Def-15 Ori-15 Def-15 Apr-15 Apr-15 Dec-15 Aug-15
Primary Standards Flower rester EPM-H42A Power sensor HP 8481A Power sensor HP 8481A Reference 20 d6 Attenuator Type-N mismatch combination Reference Probe ES30V3 DAE4 Secondary Standards HI- generator HAS-SMI -ue	ID # GB57400704 US37282783 MY41092517 SN: 5060 (204) SN: 5047.2 / 06327 SN: 3205 SR: 601	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 03-Apr-14 (No. 217-02021) 03-Apr-14 (No. 217-01921) 30-Occ-14 (No. ESS-9205, Dect 4) 18-Aug-14 (No. DAE4-601, Aug/14)	Def-15 Oct-15 Oct-15 Apr-15 Apr-15 Dec-15 Aug-15 Scheduled Check
Primary Standards Flower rester EPM-H42A Power sensor HP 8481A Power sensor HP 8481A Reference 20 d6 Attenuator Type-N mismatch combination Reference Probe ES30V3 DAE4 Secondary Standards HI- generator HAS-SMI -ue	ID # GB57400704 US37292783 MY41092317 SN: 5060 (Pox) SN: 5047.2 / 06327 SN: 3205 SN: 601 ID # TLUUS US37390585 S4206	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 03-Apr-14 (No. 217-02021) 03-Apr-14 (No. 217-01921) 03-Oce-14 (No. 217-01921) 30-Oce-14 (No. ESS-9205, Dect 4), 18-Aug-14 (No. DAE4-601, Aug-11) Check Date (in house) us-nug-tif (in house) us-nug-tif (in house) usect Oct-14)	Def-15 Oct-15 Oct-15 Apr-15 Apr-15 Apr-15 Dec-15 Aug-15 Scheduled Check In holise pascic Oct-16 In house check; Oct-17
Primary Standards Power reder CPM-H42A Power sensor HP B481 A Power sensor HP B481 A Reterence 20 dB Attenuator Type-N miematch combination Reterence Probe ES30V3 DAE4 Secondary Standards HF generator HAS SMI - Up Netectik Arallyse HP 8753E	ID # GB57460704 US37282783 MY41092517 SN: 5056 (20x) SN: 5047.2 / 06327 SN: 3205 SR: 601 ID # TUUUD US37300585 S4206 Merris	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 03-Apr-14 (No. 217-03021) 03-Apr-14 (No. 217-03021) 30-Dec-14 (No. 217-03021) 30-Dec-14 (No. ESS-9205, Dect 4) 18-Aug-14 (No. DAE4-601, Aug-14) Uheck Datu (in house) us-Aug-tis (in house)	Dut-15 Out-15 Out-15 Apr-15 Apr-15 Apr-15 Dec-15 Aug-15 Scheduled Check In house prack Out-16
Primary Standards Power rester EPM-142A Power sensor HP 8481 A Power sensor HP 8481A Reterence 20 dB Attenuator Type-N miematch combination Reterence Probe ES30V3 DAE4	ID # GB57400704 US37292783 MY41092317 SN: 5060 (Pox) SN: 5047.2 / 06327 SN: 3205 SN: 601 ID # TLUUS US37390585 \$4206	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 03-Apr-14 (No. 217-02021) 03-Apr-14 (No. 217-01921) 03-Oce-14 (No. 217-01921) 30-Oce-14 (No. ESS-9205, Dect 4), 18-Aug-14 (No. DAE4-601, Aug-11) Check Date (in house) us-nug-tif (in house) us-nug-tif (in house) usect Oct-14)	Def-15 Oct-15 Oct-15 Apr-15 Apr-15 Apr-15 Dec-15 Aug-15 Scheduled Check In holise pascic Oct-16 In house check; Oct-17
Primary Standards Power reder EPM-H42A Power sensor HP 8481 A Power sensor HP 8481 A Power sensor HP 8481 A Reterence 20 dB Attenuator Type-N miematch combination Reterence Probe ES30V3 DAE4 Secondary Standards H- garantor Hos Silvi - Un Netectik Analyzes HP 8753E	ID # GB57460704 US37282783 MY41092517 SN: 5056 (20x) SN: 5047.2 / 06327 SN: 3205 SR: 601 ID # TUUUD US37300585 S4206 Merris	07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 03-Apr-14 (No. 217-03021) 03-Apr-14 (No. 217-03021) 30-Dec-14 (No. 217-03021) 30-Dec-14 (No. ESS-9205, Dect 4) 18-Aug-14 (No. DAE4-601, Aug-14) Uheck Datu (in house) us-Aug-tis (in house)	Def-15 Oct-15 Oct-15 Apr-15 Apr-15 Apr-15 Dec-15 Aug-15 Scheduled Check In holise pascic Oct-16 In house check; Oct-17

Certificate No: D2800V2-1005_lan15

Page 1 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 355 of 377

Calibration Laboratory of Schmid & Partner

Engineering AG 7-ugt equatresse 43, 8004 Zurion, Switzerland

Accredited by the Swee Accreditation Senior (SAS)





Service sunse d'éleibrinage Servizio evizzero di terationi

Recreditation No.: SCS 0106

The Bwiss Accreditation Service is one of the eignificities to the EA Muhiliplanal Agreement for the recognition of calibration certificates

Glossary:

TSL ConvF tissue simulating liquid

sensitivity in TSL / NORM x,y,z not applicable or not measured N/A

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 5 GHz"

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated,
- Antenna Parameters with TSL. The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D2600V2-1005_Jen15

Page 2 ni 6

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 356 of 377

Measurement Conditions

DASY Version	DASYS	V52 8.6
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	the dy, dz. = 5 mm	
Frequency	2600 MHz ⇒ T MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL paremeters	22.0 °C	39.0	1.95 mho/m
Measured Head TSL parameters	(22,0 ± 0.2) (C	38.6 ± 6 %	2.05 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	-	

SAR result with Head TSL

SAR averaged over 1 cm² (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.5 W/kg
SAR for nominal Head TSL parameters	Mt at begileman	56.8 W/kg = 17.0 % (k=2)

SAR averaged over 10 cm ² (10 g) of Head TSL	condition	
SAR measured	250 mW input pawer	8.42 W/kg
SAR for nominal Head TSL paremeters	Wf at besilamon	25.4 W/kg + 16.5 % (k=2)

Body TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.5	216 mho/m
Measured Body TSL parameters	(22:0 ± 0.2) °C	81.1 + 6%	2.21 mho/m ± 6.%
Body TSL temperature change during test	< 0.5 °C	_	-

SAR result with Body TSL

SAR averaged over 1 cm ² (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	14,0 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	55.1 W/kg = 17.0 % (k=2)

SAR averaged over 10 cm2 (10 g) of Body TSL	condition	
SAH measured	250 mW input power	6:20 W/kg
SAR for nonlinal Body TSL parameters	namnalized to 1W	24.6 W/kg ± 16.5 % (ks2)

Certificate No. D2600V2-1005_dan15

Page 3 of 6

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 357 of 377

Appendix (Additional assessments outside the scope of SCS0108)

Antenna Parameters with Head TSL

impedance, transformed to feed point	40,4 (2 - 3,5)(2
Return Loss	- 29.3 dB

Antenna Parameters with Body TSL

Impedance, irans/armed to feed point	46.8 (2-25)(2	
Return Luss	-27 E dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.558 ns

After long term use with 100W radiated power; only a slight warming at the clipple near the feedpoint can be measured.

The dipole is made of standard semirigid coexis) cable. The genter conductor of the feeding line is directly connected to the second arm of the dipole. The antienna is therefore stron-arcuited for DC-signals. On some of the dipoles, small end capa are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurament Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedboint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	December 23, 2006

Carolleste No. D2600V2-1005_Jan 15

Page 4 of 0

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 358 of 377

DASY5 Validation Report for Head TSL

Date: 27.01-2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1005

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.05 \text{ S/m}$; $\varepsilon_i = 38.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 SN3205; ConvF(4.49, 4.49, 4.49); Calibrated: 30.12.2014;
- Sensor-Surface; 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 98.94 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 30.6 W/kg SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.42 W/kg

Maximum value of SAR (measured) = 18.6 W/kg



0 dB = 18.6 W/kg = 12.70 dBW/kg

Cartricate No: D2600V2-1005_Jan15

Page 5 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

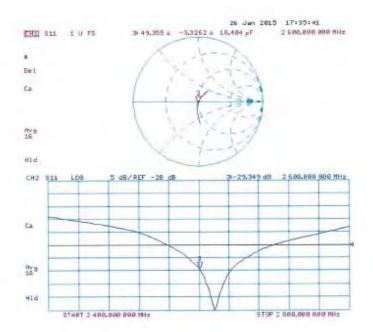
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 359 of 377

Impedance Measurement Plot for Head TSL



Certificate No: D2600V2-1005_Jan15

Page 6 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 360 of 377

DASY5 Validation Report for Body TSL

Date: 27.01.2015

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1005

Communication System: UID 0 - CW: Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.21 \text{ S/m}$; $\epsilon_c = 51.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

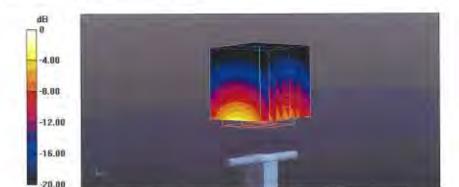
DASY52 Configuration:

- Probe: ES3DV3 SN3205; ConvF(4.13, 4.13, 4.13); Calibrated: 30.12.2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics; DAE4 Sn601; Calibrated; 18.08.2014
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0;

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 96.04 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 29.6 W/kg SAR(1 g) = 14 W/kg; SAR(10 g) = 6.2 W/kg

Maximum value of SAR (measured) = 18.7 W/kg



0 dB = 18.7 W/kg = 12.72 dBW/kg

Certificate No: D2600V2-1005_Jan15

Page 7 of 6

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

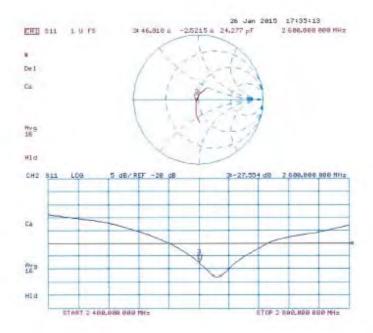
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 361 of 377

Impedance Measurement Plot for Body TSL



Certificate No: D2600V2-1005_Jan15

Page 8 of 8

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

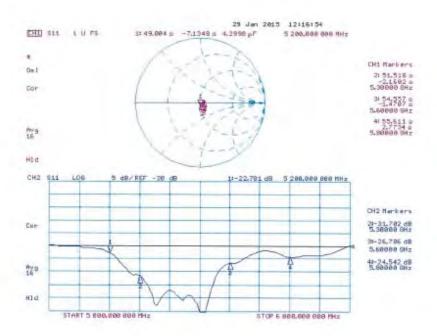
f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 362 of 377

Impedance Measurement Plot for Body TSL



Certificate No: D5GHzV2-1023 Jan 15

Page 15 of 15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

www.tw.sas.com



Page: 363 of 377

Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Service ausse d'étalonnage Servizio avizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration sertificates

SGS-TW (Auden)

Certificate No. D5GHzV2-1023 Jan 16 CALIBRATION CERTIFICATE D5GHzV2 - SN: 1023 Object Calibration procedure(s) QA CAL-22.v2 Calibration procedure for dipole validation kits between 3-6 GHz January 26, 2016 Calibration date: This colloration certificate documents the traceability to nethinal standards, which realize the physical units of measurements (SI) The measurements and the uncontainties with confidence probability are given on the following pages and are cart of the certificate, All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 81°C and furnidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards Cai Date (Certificate No.) Scheduled Calibration ower meter EPM-442A GB37480704 07-Oct 15 (No. 217-02222) Oct-16: Power sensor HP 8461A US37292783 07-Oct-15 (No. 217-02222) Oct-16 Power sensor HP 8481A MY41092317 07-Oct-15 (No. 217-02223) Oct-16 Reference 20 dB Attenuator SN: 5055 (20k) 01-Apr-15 (No. 217-02131). Mar-16 Type-N mismatch combination SN: 5047.2 / 06327 01-Apr-15 (No. 217-02154) May-16 SM 3503 31 Dec-15 (No. EX3-3503 Dec15) Dec-18 Reference Probe EX3DV4 30-Dec-15 (No. DAE4-601 Dec15) Dec-16 DAE4 SN. 801 Scheduled Check Secondary Standards ID # Check Date (in house) 15-Jun-15 (in house check Jun-15) In house check: Jun-18 RF generator R&S SMT-06 100972 US37390685-\$4206 18-Oct-01 (in house check Oct-15) In house chack: Oct-16 Nelwork Analyzar HP 8753E Function Name Michael Weber Liaboratory Technician Calibrated by Kata Poković Technical Manager Approved by lested: January 28, 2018 This calibration certificate shall not be reproduced except in full without written approval of the incoratory

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

Certificate No: 05GHzV2-1023_Jan16

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Page 1 of 15



Page: 364 of 377

Calibration Laboratory of Schmid & Partner

Engineering AG userranne f.i. 8004 Zurich, Switzerland





Schweizenscher Kalibriertlie Service suisse d'étalonnage Servizio evizzero di terettera me Califration Service

Accreditation No.: SCS 0108

Accounting by an Swini Accounting on Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilatoral Agreement for the recognition of calibration certifica

Glossary:

TSL tissue simulating liquid ConvF sensitivity in TSL / NORM x,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30. MHz to 6 GHz)", March 2010
- c) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the cartificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Fued Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The Impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for naminal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certifipare No. 05GHzV2-1023 Jan 16

Page 2 of 15.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 365 of 377

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5600 MHz ± 1 MHz 5600 MHz ± 1 MHz	

Head TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 m/ho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.2 ± 6 %	4.51 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.74 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.0 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.23 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.1 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1023_Jan16

Page 3 of 15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 366 of 377

Head TSL parameters at 5300 MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.1 ± 6 %	4.60 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5300 MHz

SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.03 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.9 W / kg ± 19.9 % (k=2)

SAR averaged over 10 cm3 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.1 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5600 MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.7 ± 6 %	4.90 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.31 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	82.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.6 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1023_Jan16

Page 4 of 15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 367 of 377

Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.4 ± 6 %	5.10 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.78 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ⁵ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.0 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1023_Jan16

Page 5 of 15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 368 of 377

Body TSL parameters at 5200 MHz

he following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	49.0	5.30 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.1 ±6 %	5.37 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.25 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	71.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ² (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.05 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.3 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5300 MHz

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.42 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.9 ± 6 %	5.50 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5300 MHz

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.57 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	75.1 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.14 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.2 W/kg ± 19.5 % (k=2)

Certificate No: D6GHzV2-1023_Jan16

Page 6 of 15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 369 of 377

Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.4 ± 6 %	5.91 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.89 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	78.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm² (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.23 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	22.1 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.2	6.00 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.0 ± 6 %	6.19 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5800 MHz

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.59 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	75.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.13 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.1 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1023_Jan16

Page 7 of 15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 370 of 377

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	49.1 Ω - 8.4 jΩ
Return Loss	- 21.4 dB

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	49.6 Ω · 4.2 jΩ
Return Loss	- 27.4 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	54.9 Ω - 1.4 jΩ
Return Loss	- 26.3 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	55.9 Ω + 2.2 jΩ
Return Loss	- 24.5 dB

Antenna Parameters with Body TSL at 5200 MHz

Impedance, transformed to feed point	49.4 Ω - 6.8 jΩ
Return Loss	- 23.3 dB

Antenna Parameters with Body TSL at 5300 MHz

Impedance, transformed to feed point	50.9 Ω - 2.4 jΩ
Return Loss	- 31.8 dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	56.0 Ω - 0.1 jΩ
Fleturn Loss	- 25.0 dB

Certificate No: D5GHzV2-1023_Jan16

Page 8 of 15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

documents, subject to Terms and Conductors for Electronic Documents at www.sgs.com/erins_e-occument.ntm. And this document is advised that information contained hereon reflects the Company's finings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 371 of 377

Antenna Parameters with Body TSL at 5800 MHz

Impedance, transformed to feed point	56.4 Ω + 2.4 jΩ
Return Loss	- 23.8 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.199 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	February 05, 2004

Page 9 of 15 Certificate No: D5GHzV2-1023 Jan16

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 372 of 377

DASY5 Validation Report for Head TSL

Date: 26.01.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1023

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600

MHz, Frequency: 5800 MHz

Medium parameters used: f=5200 MHz; $\sigma=4.51$ S/m; $\epsilon_r=35.2$; $\rho=1000$ kg/m³, Medium parameters used: f=5300 MHz; $\sigma=4.6$ S/m; $\epsilon_r=35.1$; $\rho=1000$ kg/m³, Medium parameters used: f=5600 MHz; $\sigma=4.9$ S/m; $\epsilon_r=34.7$; $\rho=1000$ kg/m³, Medium parameters used: f=5800 MHz; $\sigma=5.1$ S/m; $\epsilon_r=34.4$; $\rho=1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: EX3DV4 - SN3503; ConvF(5.59, 5.59, 5.59); Calibrated: 31.12.2015, ConvF(5.25, 5.25, 5.25); Calibrated: 31.12.2015, ConvF(4.99, 4.99, 4.99); Calibrated: 31.12.2015, ConvF(4.95, 4.95, 4.95); Calibrated: 31.12.2015;

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- · Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Scrial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 72.68 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 28.1 W/kg

SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.23 W/kg

Maximum value of SAR (measured) = 17.8 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.14 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 30.0 W/kg

SAR(1 g) = 8.03 W/kg; SAR(10 g) = 2.33 W/kg

Maximum value of SAR (measured) = 18.7 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.32 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 32.6 W/kg

SAR(1 g) = 8.31 W/kg; SAR(10 g) = 2.38 W/kgMaximum value of SAR (measured) = 19.8 W/kg

Certificate No: D5GHzV2-1023_Jan16

Page 10 of 15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司



Page: 373 of 377

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

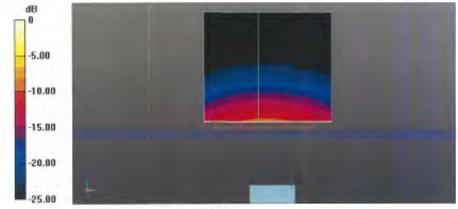
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.15 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 32.0 W/kg

SAR(1 g) = 7.78 W/kg; SAR(10 g) = 2.22 W/kg

Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.74 dBW/kg

Certificate No: D5GHzV2-1023_Jan16

Page 11 of 15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

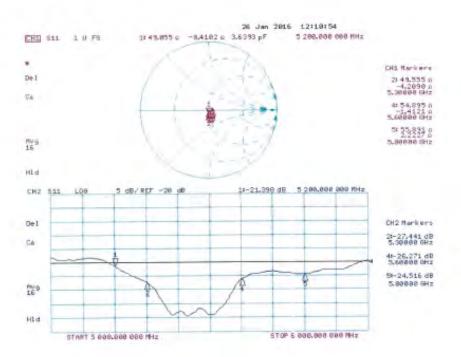
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 374 of 377

Impedance Measurement Plot for Head TSL



Certificate No: D5GHzV2-1023_Jan16

Page 12 of 15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions. If any. The

therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Page: 375 of 377

DASY5 Validation Report for Body TSL

Date: 25.01.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1023

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600

MHz, Frequency: 5800 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 5.37$ S/m; $\varepsilon_r = 47.1$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5300 MHz; $\sigma = 5.5$ S/m; $\varepsilon_r = 46.9$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5600 MHz; $\sigma = 5.91$ S/m; $\varepsilon_r = 46.4$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5800 MHz; $\sigma = 6.19$ S/m; $\varepsilon_r = 46$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(4.99, 4.99, 4.99); Calibrated: 31.12.2015, ConvF(4.75, 4.75, 4.75); Calibrated: 31.12.2015, ConvF(4.35, 4.35, 4.35); Calibrated: 31.12.2015, ConvF(4.27, 4.27, 4.27); Calibrated: 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.72 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 7.25 W/kg; SAR(10 g) = 2.05 W/kg

Maximum value of SAR (measured) = 16.8 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 67.43 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 29.1 W/kg

SAR(1 g) = 7.57 W/kg; SAR(10 g) = 2.14 W/kg

Maximum value of SAR (measured) = 17.7 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 67.67 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 32.6 W/kg

SAR(1 g) = 7.89 W/kg; SAR(10 g) = 2.23 W/kg

Maximum value of SAR (measured) = 19.1 W/kg

Certificate No: D6GHzV2-1023_Jan16

Page 13 of 15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司



Page: 376 of 377

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

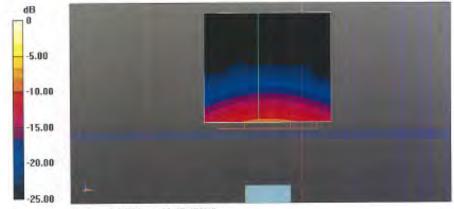
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.76 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 33.0 W/kg

SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.13 W/kg

Maximum value of SAR (measured) = 18.5 W/kg



0 dB = 18.5 W/kg = 12.67 dBW/kg

Certificate No: D5GHzV2-1023_Jan16

Page 14 of 15

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

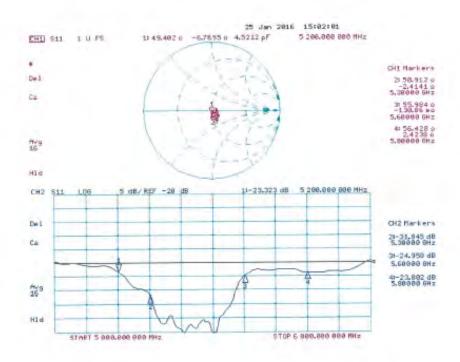
f (886-2) 2298-0488

SGS Taiwan Ltd.



Page: 377 of 377

Impedance Measurement Plot for Body TSL



Certificate No: D5GHzV2-1023_Jan16

Page 15 of 15

- End of 1st part of report -

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.