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SAR TEST REPORT





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

Smart phone **Equipment Under Test**

Sharp Corporation, Mobile Communication B.U. **Company Name** 2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi, **Company Address**

Hiroshima, 739-0192, Japan

Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013

FCC ID APYHRO00293 **Date of Receipt** Dec. 14, 2020

Date of Test(s) Jan. 07, 2021 ~ Jan. 14, 2021

Date of Issue Feb. 02, 2021

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.

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Signed on behalf of SGS

Clerk / Kimmy Chiou	Engineer / Bond Tsai	Asst. Manager / John Yeh
Kimmy Chiou	BondIsai	John Teh
		Date: Feb. 02, 2021

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	Highest SAR Summary				
Equipment class	Frequency Band	Head (Separation 0mm)	Body-worn (Separation 10mm)	Hotspot (Separation 10mm)	Highest Simultaneous Transmission 1g SAR(W/Kg)
			1g S	SAR(W/Kg)	
Licensed	WCDMA Band V	0.37	-	-	
Licensed	WCDMA Band II	-	0.65	-	
Licensed	GPRS 1900	-	-	0.81	0.86
DTS	2.4GHz WLAN	0.36	0.11	0.11	
NII	5GHz WLAN	0.38	0.07	0.10	
DSS	Bluetooth	0.23	0.06	-	
Date	of Testing	2021/01/07 ~ 2021/01/14			

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Revision History

Report Number	Revision	Description	Issue Date
E5/2020/C0003	Rev.00	Initial creation of document	Feb. 02, 2021

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0. Guidance applied

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB865664D01v01r04

KDB865664D02v01r02

KDB941225D01v03r01

KDB941225D05v02r05

KDB941225D06v02r01

KDB648474D04v01r03

KDB447498D01v06

KDB248227D01v02r02

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Central RF Lab				
No. 2, Keji 1st Rd., Gu	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan			
FCC Designation Number				
Tel	+886-2-2299-3279			
Fax +886-2-2298-0488				
Internet http://www.tw.sgs.com/				

1.2 Details of Applicant

Company Name	Sharp Corporation, Mobile Communication B.U.
II Omnany Madrocc	2-13-1, Hachihonmatsu-Iida, Higashi-hiroshima-shi, Hiroshima, 739-0192, Japan

1.2.1 Details of Manufacturer

Company Name	Sharp Corporation
Company Address	1 Takumi-cho, Sakai-ku, Sakai City,Osaka 590-8522,Japan

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1.3 Description of EUT

EUT Name	Smart phone			
FCC ID	APYHRO00293			
	⊠GSM ⊠GPRS ⊠LTE	FDD \ \text{\text{LTE TDD}}		
Mode of Operation	⊠WCDMA ⊠HSDPA ⊠HSU	JPA ⊠Bluetooth		
	⊠WLAN802.11 a/b/g/n/ac(20M/40	M/80M)		
	GSM (DTM multi class B)	1/8.3		
	GPRS (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)		
Duty Cycle	WCDMA	1		
Duty Cycle	LTE FDD	1		
	LTE TDD	0.633		
	WLAN802.11a/b/g/n/ac (20M/40M/80M)	Refer to page 40-43		
	Bluetooth	76.8%		
	GSM850	824 — 849		
	GSM1900	1850 — 1910		
	WCDMA Band II	1850 — 1910		
	WCDMA Band V	824 — 849		
	LTE FDD Band 2	1850 — 1910		
TX Frequency Range	LTE FDD Band 5	824 — 849		
(MHz)	LTE FDD Band 7	2500 — 2570		
	LTE TDD Band 38	2570 — 2620		
	LTE TDD Band 41	2496 — 2690		
	WiFi 2.4GHz	2400 — 2462		
	WiFi 5GHz	5150 - 5825		
	Bluetooth	2402 — 2480		

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	GSM850	128	_	251
	GSM1900	512	_	810
	WCDMA Band II	9262	_	9538
	WCDMA Band V	4132	_	4233
Channel Number	LTE FDD Band 2	18607	_	19193
(ARFCN)	LTE FDD Band 5	20407	_	20643
,	LTE FDD Band 7	20775	_	21425
	LTE TDD Band 38	37775	_	38225
	LTE TDD Band 41	39675	_	41565
	WiFi 2.4GHz	1	_	11
	WiFi 5GHz	36	_	165
	Bluetooth	0	_	78

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WWAN

	Max. SAR (1-g) (Unit: W/Kg)					
Mode	Band	Measured	Reported	Position / Channel		
	GSM 850	0.24	0.31	☐Left ☐Right ☐Cheek ☐Tilt ☐Channel		
	GSM 1900	0.10	0.12	☐Left ☐Right ☐Cheek ☐Tilt810Channel		
	WCDMA Band II	0.28	0.30	☐Left ⊠Right ☐Cheek ☐Tilt ☐ 9400 Channel		
	WCDMA Band V	0.33	0.37	☐Left ⊠Right ☑Cheek ☐Tilt 4233 Channel		
Head	LTE FDD Band 2	0.15	0.17	☐Left ☐Right ☐Cheek ☐Tilt 18900 Channel		
	LTE FDD Band 5	0.21	0.25	☐Left ☐Right ☐Cheek ☐TiltChannel		
	LTE FDD Band 7	0.14	0.17	☐Left ⊠Right ☑Cheek ☐Tilt 21350 Channel		
	LTE TDD Band 38	0.10	0.12	□Left ⊠Right ⊠Cheek □Tilt 38150 Channel		
	LTE TDD Band 41	0.20	0.23	☐Left ☐Right ☐Cheek ☐Tilt 40620 Channel		

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WLAN

VVLAIN						
	Max. SAR (1-g) (Unit: W/Kg)					
Mode	Band	Measured	Reported	Position / Channel		
	WLAN802.11 b	0.35	0.36	□Left ⊠Right ⊠Cheek □Tilt 10 Channel		
	WLAN802.11ac(80M)5.2G	0.32	0.36	□Left ⊠Right □Cheek ⊠Tilt 42 Channel		
Usad	WLAN802.11ac(80M)5.3G	0.23	0.27	□Left ⊠Right □Cheek ⊠Tilt <u>58</u> Channel		
Head	WLAN802.11ac(80M)5.6G	0.34	0.38	☐Left ☐Right ☐Cheek ☐Tilt 106_Channel		
	WLAN802.11ac(80M)5.8G	0.29	0.35	☐Left ⊠Right ☐Cheek ⊠Tilt155 _Channel		
	Bluetooth	0.11	0.23	□Left ⊠Right ⊠Cheek □Tilt 39 Channel		

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WWAN

Max. SAR (1-g) (Unit: W/Kg)					
Mode	Band	Measured	Reported	Position / Channel	
	GSM 850	0.25	0.32		
	GSM 1900	0.37	0.45		
	WCDMA Band II	0.62	0.65	⊠Front □Back <u>9538</u> Channel	
	WCDMA Band V	0.30	0.33		
Body-worn	LTE FDD Band 2	0.54	0.61	⊠Front □Back 19100 Channel	
	LTE FDD Band 5	0.20	0.24	☐Front ⊠Back 	
	LTE FDD Band 7	0.27	0.32		
	LTE TDD Band 38	0.21	0.25	⊠Front □Back 38000Channel	
	LTE TDD Band 41	0.23	0.28	⊠Front □Back 40185 Channel	

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WLAN

VVLAIN											
Max. SAR (1-g) (Unit: W/Kg)											
Mode	Band	Measured	Reported	Position / Channel							
	WLAN802.11 b	0.11	0.11	☐Front ⊠Back 10 Channel							
	WLAN802.11ac(80M)5.2G	0.05	0.06	☐Front ⊠Back 42 Channel							
Dodywara	WLAN802.11ac(80M)5.3G	0.05	0.06	☐Front ⊠Back 58Channel							
Body-worn	WLAN802.11ac(80M)5.6G	0.06	0.07	☐Front ⊠Back 106 Channel							
	WLAN802.11ac(80M)5.8G	0.04	0.05	⊠Front □Back 155 Channel							
	Bluetooth	0.03	0.06	☐Front ⊠Back 39 Channel							

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WWAN

WWAN	Max. SAR	(1-g) (Unit:	: W/Kg)	
Mode	Band	Measured	Reported	Position / Channel
	GPRS 850 (1Dn4UP)	0.46	0.66	☐Front ☐Back ☐Top ☐Right ☐Left ☐Bottom 190 Channel
	GPRS 1900 (1Dn4UP)	0.66	0.81	☐Front ☐Back ☐Top ☐Right ☐Left ☐Bottom810 Channel
	WCDMA Band II	0.57	0.66	☐Front ☐Back ☐Top ☐Right ☐Left ☐Bottom _9538 Channel
	WCDMA Band V	0.39	0.43	☐Front ☐Back ☐Top ☐Right ☐Left ☐Bottom 4183 Channel
Hotspot mode	LTE FDD Band 2	0.55	0.62	☐Front ☐Back ☐Top ☐Right ☐Left ☐Bottom
	LTE FDD Band 5 LTE FDD Band 7	0.33	0.40	☐Front ☐Back ☐Top ☐Right ☐Left ☐Bottom _20525 Channel
		0.51	0.62	☐Front ☐Back ☐Top ☐Right ☐Left ☐Bottom21350 Channel
	LTE TDD Band 38	0.40	0.48	☐Front ☐Back ☐Top ☐Right ☐Left ☐Bottom 38150 Channel
	LTE TDD Band 41	0.45	0.53	☐Front ☐Back ☐Top ☐Right ☐Left ☐Bottom 41055 Channel

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WLAN

Max. SAR (1-g) (Unit: W/Kg)											
Mode	Band	Measured	Reported	Position / Channel							
Hotspot	WLAN802.11 b	0.11	0.11	☐Front ☐Back ☐Top ☐Right ☐Left ☐Bottom10Channel							
mode	WLAN802.11ac(80M)5.8G	0.08	0.10	☐Front ☐Back ☐Top ☐Right ☐Left ☐Bottom155 Channel							

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GSM 850 - conducted power table:

GOIM GOO	GSW 650 - Conducted power table.											
EUT mode	Frequency (MHz)	СН	Max. Rated Avg. Power + Max.Tolerance	Burst average power	Source-based time average power							
	(1711 12)		(dBm)	Avg.	Avg.							
			(ubiii)	(dBm)	(dBm)							
GSM 850	824.2	128	33.5	32.40	23.37							
(GMSK)	836.6	190	33.5	32.42	23.39							
(==,	848.8	251	33.5	32.30	23.27							
	The d	ivision factor	compared to the numb	er of TX time slot								
	Divi	sion factor		1 TX time slot								
	DIVI	Sion ideloi		-9.03								

GPRS 850 - conducted power table:

			Burst avera	age power		
	ted Avg. Pow olerance (dBr		33.5	31	29.3	28.5
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS	824.2	128	32.36	30.03	28.34	26.90
850	836.6	190	32.38	30.12	28.38	26.92
030	848.8 251		32.28	30.10 28.33		27.82
		Sc	ource-based tim	e average powe	er	
GPRS	824.2	128	23.33	24.01	24.08	23.89
850	836.6	190	23.35	24.10	24.12	23.91
650	848.8	251	23.25	24.08	24.07	24.81
	The div	ision fa	ctor compared	to the number o	f TX time slot	
Div	vision factor		1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
	vision ractor		-9.03	-6.02	-4.26	-3.01

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GSM 1900 - conducted power table:

EUT mode	Frequency (MHz)	СН	Max. Rated Avg. Power + Max.Tolerance	Burst average power	Source-based time average power		
	(1711 12)		(dBm)	Avg. (dBm)	Avg. (dBm)		
GSM1900	1850.2	512	30.5	29.75	20.72		
(GMSK)	1800	661	30.5	29.70	20.67		
(Gillert)	1909.8	810	30.5	29.68	20.65		
	The d	ivision factor	compared to the numb	er of TX time slot			
	Divi	sion factor		1 TX time slot			
	DIVI	Sion iactor		-9.03			

GPRS 1900 - conducted power table:

of the 1990 confidence power tubic:											
	Burst average power										
	ted Avg. Pow olerance (dBr		30.5	28	26.5	25.5					
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP					
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)					
GPRS	1850.2	512	29.72	26.79	24.93	24.40					
1900	1880	661	29.67	26.78	24.90	24.46					
1900	1909.8 810		29.65	26.99	26.99 25.13						
		So	ource-based tim	e average powe	er						
GPRS	1850.2	512	20.69	20.77	20.67	21.39					
1900	1880	661	20.64	20.76	20.64	21.45					
1900	1909.8	810	20.62	20.97	20.87	21.62					
	The div	ision fa	actor compared	to the number o	f TX time slot						
Div	vision factor		1 TX time slot -9.03	2 TX time slot 3 TX time slot -6.02 -4.26		4 TX time slot -3.01					

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WCDMA Band II / Band V - HSDPA / HSUPA Conducted power table (Unit: dBm):

ANT 1

<u> </u>					
	Band	WCDMA II			
	TX Channel	9262	9400	9538	
	Frequency (MHz)	1852.4	1880	1907.6	
Max. Rated Av	vg. Power+Max. Tolerance (dBm)		23.30		
3GPP Rel 99	RMC 12.2Kbps	22.90	22.95	23.08	
	HSDPA Subtest-1	21.93	21.94	22.15	
3GPP Rel 5	HSDPA Subtest-2	21.39	21.44	21.64	
3GFF Rei 3	HSDPA Subtest-3	21.45	21.46	21.67	
	HSDPA Subtest-4	21.40	21.44	21.58	
	HSUPA Subtest-1	21.86	21.87	22.09	
	HSUPA Subtest-2	19.88	19.89	20.03	
3GPP Rel 6	HSUPA Subtest-3	20.84	20.92	21.05	
	HSUPA Subtest-4	19.87	19.90	20.06	
	HSUPA Subtest-5	21.89	21.91	20.38	

	Band		WCDMA V	
	TX Channel	4132	4183	4233
	Frequency (MHz)	826.4	836.6	846.6
Max. Rated Av	vg. Power+Max. Tolerance (dBm)		25.00	
3GPP Rel 99	RMC 12.2Kbps	24.55	24.59	24.53
	HSDPA Subtest-1	23.62	23.62	23.56
3GPP Rel 5	HSDPA Subtest-2	23.06	23.10	23.06
JOHN Nei J	HSDPA Subtest-3	23.09	23.08	23.04
	HSDPA Subtest-4	23.08	23.11	23.09
	HSUPA Subtest-1	23.60	23.60	23.56
	HSUPA Subtest-2	21.56	21.60	21.52
3GPP Rel 6	HSUPA Subtest-3	22.59	22.57	22.52
	HSUPA Subtest-4	21.55	21.58	21.54
	HSUPA Subtest-5	23.57	23.60	23.56

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Down power with enable hotspot mode ANT 1

Jown power with enable notspot mode _ANT 1									
	Band		WCDMA II						
	TX Channel	9262	9400	9538					
	Frequency (MHz)	1852.4	1880	1907.6					
Max. Rated Av	g. Power+Max. Tolerance (dBm)		20.30						
3GPP Rel 99	RMC 12.2Kbps	19.50	19.49	19.69					
3GPP Rel 5	HSDPA Subtest-1	19.40	19.42	19.34					
	HSDPA Subtest-2	19.43	19.50	19.37					
SGFF Kei S	HSDPA Subtest-3	19.45	19.59	19.43					
	HSDPA Subtest-4	19.40	19.43	19.34					
	HSUPA Subtest-1	19.53	19.50	19.33					
	HSUPA Subtest-2	19.49	19.32	19.56					
3GPP Rel 6	HSUPA Subtest-3	19.33	19.46	19.33					
	HSUPA Subtest-4	19.31	19.49	19.53					
	HSUPA Subtest-5	19.54	19.31	19.59					

Subtests for WCDMA Release 5 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

Subtests for WCDMA Release 6 HSUPA

SUB-TEST	βς	β _d	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 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

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LTE Band 2 / Band 5 / Band 7 / Band 38 / Band 41- conducted power table:

ANT1

			LT	E Band 2			
BW(Mhz)	Modulation	RB Size	RB Offset	Cond	ucted power (dBm)	
	Frequenc	y (MHz)		1860	1880	1900	Target Power + Max. Tolerance (dBm
	Char	nnel		18700	18900	19100	Tolerance (ubin
		1	0	22.34	22.17	22.29	23.00
		1	50	22.27	22.26	22.46	23.00
		1	99	22.16	22.45	22.49	23.00
	QPSK	50	0	21.30	21.27	21.30	22.00
		50	25	21.37	21.34	21.46	22.00
		50	50	21.34	21.39	21.43	22.00
		100	0	21.48	21.26	21.59	22.00
		1	0	21.84	21.23	21.32	22.00
		1	50	21.27	21.70	21.89	22.00
		1	99	21.29	21.57	21.31	22.00
20	16-QAM	50	0	20.34	20.32	20.40	21.00
	1	50	25	20.27	20.35	20.51	21.00
	1	50	50	20.28	20.28	20.58	
	1	100	0	20.40	20.34	20.45	
		1	0	20.74	19.87	20.31	1
	1	1	50	20.10	20.41	20.80	
		1	99	19.94	20.50	20.26	Tolerance (dBm) 23.00 23.00 23.00 22.00 22.00 22.00 22.00 22.00 21.00 21.00 21.00 21.00 21.00 21.00 20.00
	64-QAM	50	0	18.98	19.10	19.08	
	0. 9, 11	50	25	18.92	19.32	19.36	
		50	50	19.00	19.01	19.27	
		100	0	19.26	19.07	19.12	
	Frequenc		, o	1857.5	1880	1902.5	
	Char	nnel		18675	18900	19125	
		1	0	22.06	22.29	22.20	23.00
		1	36	22.17	22.12	22.36	23.00
		1	74	22.09	22.31	22.38	23.00
	QPSK	36	0	21.23	21.16	21.23	22.00
		36	18	21.26	21.36	21.30	22.00
		36	37	21.26	21.41	21.51	22.00
		75	0	21.26	21.28	21.32	
		1	0	21.22	21.31	21.40	1
		1	36	21.05	21.04	21.81	22.00
		1	74	21.23	21.36	21.49	1
15	16-QAM	36	0	20.11	20.18	20.21	
		36	18	20.26	20.39	20.30	
	1	36	37	20.26	20.33	20.62	
	1	75	0	20.20	20.33	20.28	
		1	0	20.62	19.99	20.07	
		1	36	19.90	20.61	20.50	21.00
		<u> </u>	74	19.96	20.56	20.09	21.00
	64-QAM	36	0	19.03	19.29	19.24	20.00
	J	36	18	19.10	19.03	19.28	20.00
		36	37	19.09	19.03	19.49	20.00
		75	0	19.09	19.01	19.49	20.00

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			LT	E Band 2			
BW(Mhz)	Modulation	RB Size	RB Offset	Cond	ucted power ((dBm)	- ·
	Frequenc	y (MHz)		1855	1880	1905	Target Power + Max. Tolerance (dBm)
	Char	nnel		18650	18900	19150	Tolerance (dbin)
		1	0	22.06	22.20	22.17	23.00
		1	25	22.14	22.10	22.32	23.00
		1	49	22.00	22.22	22.35	23.00
	QPSK	25	0	21.17	21.13	21.13	22.00
		25	12	21.16	21.35	21.22	22.00
		25	25	21.18	21.40	21.45	22.00
		50	0	21.24	21.21	21.24	22.00
		1	0	21.13	21.24	21.40	22.00
		1	25	21.01	20.98	21.81	22.00
		1	49	21.22	21.31	21.42	22.00
10	16-QAM	25	0	20.09	20.09	20.18	21.00
		25	12	20.23	20.33	20.22	21.00
		25	25	20.21	20.26	20.57	21.00
		50	0	20.15	20.30	20.19	21.00
		1	0	20.77	20.07	19.99	21.00
		1	25	19.88	20.39	20.86	21.00
		1	49	19.96	20.40	20.16	Tolerance (dBm) 23.00 23.00 23.00 22.00 22.00 22.00 22.00 22.00 21.00 21.00 21.00 21.00 21.00 21.00 20.00
	64-QAM	25	0	19.05	19.12	19.00	
		25	12	19.21	19.06	19.21	20.00
		25	25	19.06	19.11	19.46	
		50	0	19.15	18.95	19.33	
	Frequenc			1852.5	1880	1907.5	_
	Char	nnel		18625	18900	19175	
		1	0	21.85	21.99	21.97	23.00
		1	12	22.04	21.97	22.22	23.00
		1	24	21.88	22.15	22.25	23.00
	QPSK	12	0	21.03	20.95	21.05	22.00
		12	6	21.08	21.14	21.06	22.00
		12	13	21.01	21.22	21.26	22.00
		25	0	21.08	21.06	21.09	22.00
		1	0	21.05	21.13	21.16	22.00
		1	12	20.87	20.86	21.59	22.00
		1	24	21.05	21.19	21.22	22.00
5	16-QAM	12	0	19.86	19.95	20.00	21.00
		12	6	20.03	20.19	20.14	21.00
		12	13	20.02	20.14	20.44	21.00
		25	0	19.99	20.19	20.11	21.00
		1	0	20.56	19.98	20.03	21.00
		1	12	20.08	20.57	20.75	21.00
		1	24	20.13	20.32	20.01	21.00
	64-QAM	12	0	19.34	19.18	19.22	20.00
		12	6	19.15	19.34	19.31	20.00
	-	12	13	19.06	19.11	19.32	20.00
		12	13	19.00	19.11	19.32	20.00

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			LT	TE Band 2			
BW(Mhz)	Modulation	RB Size	RB Offset	Cond	ucted power ((dBm)	_
	Frequenc	cy (MHz)		1851.5	1880	1908.5	Target Power + Max. Tolerance (dBm)
	Cha	nnel		18615	18900	19185	Tolerance (dbin)
		1	0	21.78	21.98	21.95	23.00
	l [1	12	21.97	21.87	22.16	23.00
		1	24	21.81	22.09	22.17	23.00
	QPSK	12	0	21.00	20.87	20.96	22.00
		12	6	21.07	21.11	20.98	22.00
	l [12	13	20.98	21.15	21.18	22.00
		25	0	21.03	21.06	21.03	22.00
		1	0	21.04	21.04	21.11	22.00
		1	12	20.79	20.80	21.52	22.00
		1	24	21.03	21.11	21.17	22.00
3	16-QAM	12	0	19.78	19.90	19.93	21.00
		12	6	19.96	20.16	20.07	21.00
	l [12	13	19.98	20.06	20.37	21.00
		25	0	19.90	20.10	20.02	21.00
		1	0	20.56	20.03	20.29	21.00
		1	12	19.90	20.41	20.68	21.00
		1	24	19.97	20.35	20.29	Power + Max. Tolerance (dBm) 23.00 23.00 23.00 22.00 22.00 22.00 22.00 22.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 20.00
	64-QAM	12	0	19.31	19.24	19.21	
		12	6	18.98	19.16	19.35	20.00
		12	13	18.90	18.91	19.48	20.00
		25	0	19.15	18.98	19.36	20.00
	Frequenc	cy (MHz)		1850.7	1880	1909.3	
	Chai	nnel		18607	18900	19193	
		1	0	21.89	21.86	22.02	23.00
		1	12	22.04	22.02	22.09	23.00
		1	24	21.88	21.89	22.02	23.00
	QPSK	12	0	22.01	21.94	22.07	23.00
		12	6	22.07	21.91	22.11	23.00
	l [12	13	22.01	21.89	22.05	23.00
		25	0	21.04	21.03	21.13	22.00
		1	0	21.63	21.47	21.08	22.00
		1	12	21.23	21.05	21.72	22.00
] [1	24	21.00	21.46	21.37	22.00
1.4	16-QAM	12	0	21.25	20.94	21.11	22.00
	[12	6	21.14	21.03	21.29	22.00
	[12	13	21.08	21.01	20.97	22.00
		25	0	20.21	20.00	20.19	21.00
	1	1	0	20.05	20.04	20.02	
	[1	12	20.44	20.48	19.93	
	[1	24	20.32	20.10	20.87	21.00
	64-QAM	12	0	19.98	20.40	20.41	21.00
	[12	6	20.38	20.02	20.16	21.00
	[12	13	20.10	20.07	20.28	21.00
		25	0	19.98	19.99	19.98	20.00

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			LT	E Band 5			
BW(Mhz)	Modulation	RB Size	RB Offset	Cond	ucted power ((dBm)	T4
	Frequenc	y (MHz)		829	836.5	844	Target Power + Max. Tolerance (dBm)
	Char	nnel		20450	20525	20600	Tolerance (abiii)
		1	0	23.14	23.16	23.07	24.00
		1	25	23.29	22.89	23.15	24.00
		1	49	23.17	23.05	23.28	24.00
	QPSK	25	0	22.20	22.30	22.28	23.00
		25	12	22.38	22.26	22.38	23.00
		25	25	22.40	22.40	22.30	23.00
		50	0	22.42	22.36	22.33	23.00
		1	0	22.47	22.28	22.79	23.00
		1	25	22.24	22.50	22.60	23.00
		1	49	22.21	22.18	22.18	23.00
10	16-QAM	25	0	21.28	21.45	21.27	22.00
		25	12	21.40	21.41	21.32	22.00
		25	25	21.44	21.42	21.28	22.00
		50	0	21.34	21.18	21.29	22.00
		1	0	21.15	21.14	21.72	22.00
		1	25	21.03	21.40	21.55	22.00
		1	49	21.02	21.14	21.12	24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00 22.00
	64-QAM	25	0	20.05	20.33	20.00	
		25	12	20.36	20.16	20.10	21.00
		25	25	20.32	20.20	19.94	21.00
		50	0	20.25	20.06	20.04	21.00
	Frequenc	y (MHz)		826.5	836.5	846.5	_
	Char	nnel		20425	20525	20625	
		1	0	23.21	23.13	23.20	24.00
		1	12	23.14	23.25	23.12	24.00
		1	24	23.18	23.23	23.17	24.00
	QPSK	12	0	22.31	22.27	22.30	23.00
		12	6	22.31	22.24	22.26	23.00
		12	13	22.30	22.33	22.25	23.00
		25	0	22.32	22.24	22.22	23.00
		1	0	22.51	22.47	22.30	23.00
		1	12	22.76	22.25	22.27	23.00
		1	24	22.53	22.37	22.13	23.00
5	16-QAM	12	0	21.45	21.31	21.30	22.00
		12	6	21.34	21.28	21.22	22.00
		12	13	21.35	21.32	21.25	22.00
		25	0	21.39	21.28	21.38	22.00
		1	0	21.29	21.27	21.59	22.00
		1	12	21.19	21.39	21.49	22.00
		1	24	20.96	20.81	21.17	22.00
	64-QAM	12	0	20.05	20.11	20.20	21.00
		12	6	20.18	20.32	20.01	21.00
	-						
		12	13	20.35	20.07	20.25	21.00

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			LT	TE Band 5			
BW(Mhz)	Modulation	RB Size	RB Offset	Cond	ucted power ((dBm)	Torget
	Frequenc	cy (MHz)		825.5	836.5	847.5	Target Power + Max. Tolerance (dBm)
	Cha	nnel		20415	20525	20635	rolerance (ubin)
		1	0	23.20	23.21	23.17	24.00
		1	7	23.08	23.15	23.19	24.00
		1	14	23.12	23.19	23.09	24.00
	QPSK	8	0	22.34	22.26	22.23	23.00
		8	4	22.29	22.36	22.21	23.00
		8	7	22.33	22.31	22.14	23.00
		15	0	22.26	22.22	22.31	23.00
		1	0	22.52	22.43	22.48	23.00
		1	7	22.46	22.39	22.70	23.00
		1	14	22.71	22.36	22.48	23.00
3	16-QAM	8	0	21.45	21.26	21.41	
		8	4	21.38	21.42	21.28	
		8	7	21.29	21.32	21.30	
		15	0	21.33	21.20	21.32	
		1	0	21.42	21.25	21.55	
		1	7	21.04	21.20	21.35	
		1	14	20.94	21.18	20.80	
	64-QAM	8	0	20.34	20.28	20.26	24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
	04-QAIVI	8	4	20.14	20.26	20.26	
		8	7	20.39	20.26	20.19	
		15	0	20.40	19.88	20.06	
		15		20.25	19.00	20.20	21.00
	Frequenc	cy (MHz)		824.7	836.5	848.3	
	Cha	nnel		20407	20525	20643	
		1	0	23.14	22.99	23.12	24.00
		1	2	23.18	23.11	23.17	24.00
		1	5	23.12	23.11	23.01	24.00
	QPSK	3	0	23.25	23.03	23.08	24.00
		3	2	23.12	23.17	23.13	24.00
		3	3	23.21	23.09	23.05	24.00
		6	0	22.21	22.16	22.17	23.00
		1	0	22.66	22.45	22.29	23.00
		1	2	22.48	22.83	22.39	
		1	5	22.28	22.17	22.28	
1.4	16-QAM	3	0	22.24	22.22	22.18	
		3	2	22.29	22.26	22.26	23.00
		3	3	22.03	22.20	22.18	23.00
		6	0	21.29	21.32	21.34	22.00
		1	0	21.41	21.16	21.69	22.00
		1	2	20.92	21.24	21.57	22.00
		1	5	21.06	20.82	21.08	22.00
	64-QAM	3	0	20.19	20.82	20.30	22.00
	04-QAW	3	2	20.19	20.28	20.30	22.00
		3	3	20.38	20.21	20.12	22.00
			0				
1	1	6	U	20.28	19.87	20.24	21.00

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			LT	E Band 7			
BW(Mhz)	Modulation	RB Size	RB Offset	Cond	ucted power ((dBm)	Target
	Frequenc	y (MHz)		2510	2535	2560	Power + Max. Tolerance (dBm)
	Char	nnel		20850	21100	21350	reservance (azm)
		1	0	22.94	23.04	22.89	24.00
		1	50	23.07	23.12	23.09	24.00
		1	99	23.25	23.26	23.14	24.00
	QPSK	50	0	22.09	22.13	22.14	23.00
		50	25	22.19	22.22	22.20	23.00
		50	50	22.20	22.13	22.19	23.00
		100	0	22.19	22.16	22.16	23.00
		1	0	22.60	22.51	22.42	23.00
		1	50	21.94	22.40	21.93	23.00
		1	99	22.64	22.40	22.18	23.00
20	16-QAM	50	0	21.07	21.11	21.11	22.00
		50	25	21.16	21.08	21.16	22.00
		50	50	21.24	21.26	21.24	22.00
		100	0	21.17	21.09	21.13	22.00
		1	0	20.89	20.81	20.91	22.00
		1	50	21.58	21.34	21.38	
		1	99	20.56	21.28	20.62	23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00 22.00 21.00
	64-QAM	50	0	20.38	20.39	20.99	
	0+ 0, 111	50	25	19.84	19.87	20.03	
		50	50	19.79	19.96	19.93	
		100	0	20.23	19.90	20.04	
	Frequenc			2507.5	2535	2562.5	Target
	Char	nnel		20825	21100	21375	
		1	0	22.76	22.95	22.90	24.00
		1	36	22.90	23.13	23.10	
		1	74	23.11	23.21	23.21	
	QPSK	36	0	21.99	21.96	22.07	
		36	18	22.07	22.11	22.16	
		36	37	22.08	22.12	22.22	
		75	0	21.96	22.05	22.16	23.00
		1	0	22.16	22.50	22.27	23.00
		1	36	22.13	22.34	22.15	23.00
		1	74	22.41	22.74	22.73	23.00
15	16-QAM	36	0	20.96	21.09	21.19	22.00 22.00 21.00 21.00 21.00 21.00 21.00 21.00 Target Power + Max. Tolerance (dBm) 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
		36	18	21.05	21.11	21.23	
		36	37	21.10	21.09	21.21	
		75	0	21.10	21.06	21.18	22.00
		1	0	20.96	20.99	21.04	22.00
		1	36	21.54	21.40	21.05	22.00
		1	74	20.89	21.35	20.74	22.00
ı	1 64 6 4 4	36	0	20.58	20.35	20.74	21.00
ı	64-QAM			20.00	20.00	20.00	21.00
	64-QAIVI			20.03	10 20	20 08	21 00
	64-QAIVI	36 36	18	20.03 19.95	19.89 19.97	20.08 20.13	21.00 21.00

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			LT	E Band 7			
BW(Mhz)	Modulation	RB Size	RB Offset	Cond	ucted power ((dBm)	Townst
	Frequenc	cy (MHz)		2505	2535	2565	Target Power + Max. Tolerance (dBm)
	Char	nnel		20800	21100	21400	Tolerance (abiii)
		1	0	23.14	23.03	23.02	24.00
		1	25	23.06	23.22	23.17	24.00
		1	49	23.10	23.24	23.15	24.00
	QPSK	25	0	22.06	22.07	22.22	23.00
		25	12	22.11	22.15	22.32	23.00
		25	25	22.23	22.28	22.28	23.00
		50	0	22.06	22.09	22.27	23.00
		1	0	22.28	22.10	22.39	23.00
]]	1	25	22.26	22.71	22.41	23.00
		1	49	22.29	22.39	22.52	23.00
10	16-QAM	25	0	21.05	21.24	21.16	22.00
		25	12	21.18	21.22	21.22	
		25	25	21.20	21.36	21.40	
		50	0	21.17	21.17	21.16	
		1	0	21.14	21.02	21.04	
	•	1	25	21.60	21.37	21.35	
	1	1	49	20.79	21.27	20.78	Tolerance (dBm) 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00 21.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
	64-QAM	25	0	20.36	20.15	20.86	
	01 97 111	25	12	19.91	19.97	19.85	
		25	25	20.06	19.93	19.91	
		50	0	20.10	19.96	20.08	
	Frequenc		J	2502.5	2535	2567.5	Target
	Chai	nnel		20775	21100	21425	
		1	0	22.97	23.06	23.15	24.00
		1	12	22.98	23.17	23.15	24.00
	1				20.17	23.13	24.00
		1	24	22.97	23.20	23.14	
	QPSK	1 12	24 0	22.97 22.10			24.00
	QPSK				23.20	23.14	24.00 23.00
	QPSK	12	0	22.10	23.20 22.18	23.14 22.17	24.00 23.00 23.00
	QPSK	12 12	0 6	22.10 22.11	23.20 22.18 22.34	23.14 22.17 22.30	24.00 23.00 23.00 23.00
	QPSK	12 12 12 25	0 6 13	22.10 22.11 22.13 22.10	23.20 22.18 22.34 22.30 22.22	23.14 22.17 22.30 22.33 22.30	24.00 23.00 23.00 23.00 23.00
	QPSK	12 12 12 12 25 1	0 6 13 0	22.10 22.11 22.13 22.10 22.20	23.20 22.18 22.34 22.30 22.22 21.97	23.14 22.17 22.30 22.33 22.30 22.29	24.00 23.00 23.00 23.00 23.00 23.00 23.00
	QPSK	12 12 12 25	0 6 13 0	22.10 22.11 22.13 22.10	23.20 22.18 22.34 22.30 22.22	23.14 22.17 22.30 22.33 22.30	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00 21.00 21.00 21.00 21.00 21.00 21.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00
5		12 12 12 25 1 1	0 6 13 0 0 12 24	22.10 22.11 22.13 22.10 22.20 22.44 22.68	23.20 22.18 22.34 22.30 22.22 21.97 22.31 22.47	23.14 22.17 22.30 22.33 22.30 22.29 22.72 22.82	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
5	QPSK	12 12 12 25 1 1 1 1	0 6 13 0 0 12 24	22.10 22.11 22.13 22.10 22.20 22.44 22.68 21.09	23.20 22.18 22.34 22.30 22.22 21.97 22.31 22.47 21.17	23.14 22.17 22.30 22.33 22.30 22.29 22.72 22.82 21.24	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00
5		12 12 12 25 1 1 1 1 12	0 6 13 0 0 12 24 0 6	22.10 22.11 22.13 22.10 22.20 22.44 22.68 21.09 21.09	23.20 22.18 22.34 22.30 22.22 21.97 22.31 22.47 21.17 21.23	23.14 22.17 22.30 22.33 22.30 22.29 22.72 22.82 21.24 21.37	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00
5		12 12 12 25 1 1 1 1 12 12	0 6 13 0 0 12 24 0 6	22.10 22.11 22.13 22.10 22.20 22.44 22.68 21.09 21.09 21.13	23.20 22.18 22.34 22.30 22.22 21.97 22.31 22.47 21.17 21.23 21.22	23.14 22.17 22.30 22.33 22.30 22.29 22.72 22.82 21.24 21.37 21.39	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00
5		12 12 12 25 1 1 1 1 12 12 12 12 25	0 6 13 0 0 12 24 0 6 13	22.10 22.11 22.13 22.10 22.20 22.44 22.68 21.09 21.09 21.13 21.06	23.20 22.18 22.34 22.30 22.22 21.97 22.31 22.47 21.17 21.23 21.22 21.18	23.14 22.17 22.30 22.33 22.30 22.29 22.72 22.82 21.24 21.37 21.39 21.22	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00
5		12 12 12 25 1 1 1 1 12 12 12 12 25 1	0 6 13 0 0 12 24 0 6 13 0	22.10 22.11 22.13 22.10 22.20 22.44 22.68 21.09 21.09 21.13 21.06 20.85	23.20 22.18 22.34 22.30 22.22 21.97 22.31 22.47 21.17 21.23 21.22 21.18 20.81	23.14 22.17 22.30 22.33 22.30 22.29 22.72 22.82 21.24 21.37 21.39 21.22 20.79	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00 22.00
5		12 12 12 25 1 1 1 1 12 12 12 12 25 1	0 6 13 0 0 12 24 0 6 13 0	22.10 22.11 22.13 22.10 22.20 22.44 22.68 21.09 21.09 21.13 21.06 20.85 21.54	23.20 22.18 22.34 22.30 22.22 21.97 22.31 22.47 21.17 21.23 21.22 21.18 20.81 21.35	23.14 22.17 22.30 22.33 22.30 22.29 22.72 22.82 21.24 21.37 21.39 21.22 20.79 21.12	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00 22.00 22.00
5	16-QAM	12 12 12 25 1 1 1 1 12 12 12 25 1 1 1 1	0 6 13 0 0 12 24 0 6 13 0 0	22.10 22.11 22.13 22.10 22.20 22.44 22.68 21.09 21.09 21.13 21.06 20.85 21.54 20.60	23.20 22.18 22.34 22.30 22.22 21.97 22.31 22.47 21.17 21.23 21.22 21.18 20.81 21.35 21.37	23.14 22.17 22.30 22.33 22.30 22.29 22.72 22.82 21.24 21.37 21.39 21.22 20.79 21.12 20.57	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
5		12 12 12 25 1 1 1 1 12 12 12 25 1 1 1 1	0 6 13 0 0 12 24 0 6 13 0 0 12 24	22.10 22.11 22.13 22.10 22.20 22.44 22.68 21.09 21.09 21.13 21.06 20.85 21.54 20.60 20.43	23.20 22.18 22.34 22.30 22.22 21.97 22.31 22.47 21.17 21.23 21.22 21.18 20.81 21.35 21.37 20.21	23.14 22.17 22.30 22.33 22.30 22.29 22.72 22.82 21.24 21.37 21.39 21.22 20.79 21.12 20.57 20.78	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
5	16-QAM	12 12 12 25 1 1 1 1 12 12 12 25 1 1 1 1	0 6 13 0 0 12 24 0 6 13 0 0	22.10 22.11 22.13 22.10 22.20 22.44 22.68 21.09 21.09 21.13 21.06 20.85 21.54 20.60	23.20 22.18 22.34 22.30 22.22 21.97 22.31 22.47 21.17 21.23 21.22 21.18 20.81 21.35 21.37	23.14 22.17 22.30 22.33 22.30 22.29 22.72 22.82 21.24 21.37 21.39 21.22 20.79 21.12 20.57	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00

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			LTI	E Band 38			
BW(Mhz)	Modulation	RB Size	RB Offset	Cond	ucted power ((dBm)	Target
	Frequenc	cy (MHz)		2580	2595	2610	Power + Max. Tolerance (dBm)
	Chai	nnel		37850	38000	38150	Toloranoo (abiii)
		1	0	23.19	23.24	23.17	24.00
		1	50	23.03	23.12	22.99	24.00
		1	99	22.94	22.98	23.04	24.00
	QPSK	50	0	22.16	22.20	22.18	23.00
		50	25	22.22	22.13	22.17	23.00
		50	50	22.20	22.24	22.16	23.00
		100	0	22.24	22.29	22.26	23.00
		1	0	22.30	22.38	22.31	23.00
	[1	50	22.12	22.26	22.14	23.00
	[1	99	22.23	22.24	22.08	23.00
20	16-QAM	50	0	21.25	21.27	21.23	22.00
	[50	25	21.30	21.18	21.23	22.00
		50	50	21.27	21.39	21.31	22.00
		100	0	21.33	21.22	21.20	22.00
		1	0	20.98	21.26	20.96	22.00
		1	50	20.74	21.25	21.14	22.00
		1	99	20.96	21.08	20.83	24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00 22.00
	64-QAM	50	0	20.12	20.21	19.83	
		50	25	20.21	20.04	19.91	21.00
		50	50	19.99	20.26	19.93	21.00
		100	0	20.28	19.83	19.95	21.00
	Frequenc	cy (MHz)		2577.5	2595	2612.5	
	Cha	nnel		37825	38000	38175	
		1	0	23.13	23.15	23.04	24.00
		1	36	22.92	23.07	23.02	
		1	74	23.04	23.07	22.80	24.00
	QPSK	36	0	22.26	22.23	22.10	23.00
		36	18	22.20	22.15	22.11	23.00
		36	37	22.22	22.23	22.19	23.00
		75	0	22.31	22.27	22.04	
		1	0	22.19	22.27	22.19	
		1	36	22.14	22.25	22.23	
		1	74	22.18	22.16	22.09	
15	16-QAM	36	0	21.18	21.17	21.18	
		36	18	21.23	21.10	21.08	
		36	37	21.15	21.19	21.16	22.00
		75	0	21.27	21.27	21.15	22.00
		1	0	21.17	21.23	21.06	22.00
		1	36	20.84	20.93	20.80	22.00
		1	74	20.92	21.08	21.00	22.00
	64-QAM	36	0	20.12	20.19	19.85	21.00
		36	18	20.22	19.95	20.07	21.00
		36	37	20.19	20.16	20.09	21.00
		75	0	20.06	19.99	19.98	21.00

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			LT	E Band 38			
BW(Mhz)	Modulation	RB Size	RB Offset	Cond	ucted power ((dBm)	
	Frequenc	y (MHz)		2575	2595	2615	Target Power + Max.
	Char	nnel		37800	38000	38200	Tolerance (dbiii
	П	1	0	23.08	23.12	22.96	24.00
		1	25	23.12	23.14	23.10	24.00
		1	49	22.94	23.18	22.97	24.00
	QPSK	25	0	22.22	22.21	22.14	23.00
		25	12	22.12	22.18	22.22	23.00
	1	25	25	22.23	22.31	22.09	23.00
	1	50	0	22.24	22.21	22.14	
		1	0	22.07	22.14	22.31	23.00
	1	1	25	22.04	22.32	22.29	
		1	49	22.26	22.05	22.15	
10	16-QAM	25	0	21.28	21.22	21.16	
10	10 0, 111	25	12	21.32	21.17	21.06	
		25	25	21.30	21.30	21.26	
		50	0	21.35	21.12	21.11	
		1	0	21.19	21.11	21.13	
	F	1	25	20.75	21.19	20.84	
	F	1	49	21.17	20.92	20.04	Tolerance (dBm) 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00 21.00 22.00 22.00 22.00 22.00
	64-QAM	25	0	19.86	20.92	20.94	
	04-QAIVI	25	12	20.23	20.16	20.00	
		25	25	20.23	20.10	20.22	
		50	0	20.23	19.96	19.88	
		30		20.11	19.90	19.00	21.00
	Frequenc	y (MHz)		2572.5	2595	2617.5	
	Char	nnel		37775	38000	38225	
		1	0	23.12	23.12	23.13	24.00
		1	12	23.08	23.12	23.05	24.00
		1	24	23.04	23.12	22.93	24.00
	QPSK	12	0	22.22	22.25	22.17	23.00
		12	6	22.18	22.23	22.06	23.00
		12	13	22.16	22.25	22.12	23.00
		25	0	22.24	22.21	22.17	23.00
		1	0	22.37	22.39	22.39	
		1	12	22.25	22.41	22.24	
		1	24	22.44	22.43	22.07	
5	16-QAM	12	0	21.16	21.20	21.23	
		12	6	21.12	21.18	21.14	22.00
		12	13	21.11	21.18	21.08	
		25	0	21.16	21.21	21.19	
		1	0	21.10	21.18	21.07	
		1	12	20.90	21.23	20.95	
		1	24	21.02	20.99	21.02	22.00
	64-QAM	12	0	20.13	20.18	20.18	21.00
] 3, 3, 1, 1	12	6	19.95	19.85	20.02	21.00
						20.02	21.00
	h	12	13	19.93	20.29	20.11	21.00

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							LTE Band 41					
BW(Mhz)	Modulation	RB Size	RB Offset		Cond	ucted power	(dBm)			Target Power + N	Max. Tolerance (dBn	1)
	Frequenc	cy (MHz)		2506	2549.5	2593	2636.5	2680	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690
	Cha	nnel		39750	40185	40620	41055	41490	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590
		1	0	22.09	23.72	23.62	23.27	22.10	23.00	24.50	24.00	23.00
		1	50	21.98	23.61	23.57	22.99	21.97	23.00	24.50	24.00	23.00
		1	99	22.08	23.56	23.59	23.11	21.98	23.00	24.50	24.00	23.00
	QPSK	50	0	21.23	22.83	22.80	22.23	21.16	22.00	23.50	23.00	22.00
		50	25	21.26	22.78	22.76	22.29	21.12	22.00	23.50	23.00	22.00
		50	50	21.22	22.69	22.73	22.17	21.16	22.00	23.50	23.00	22.00
		100	0	21.31	22.89	22.86	22.30	21.21	22.00	23.50	23.00	22.00
		1	0	21.22	22.86	22.78	22.26	21.36	22.00	23.50	23.00	22.00
		1	50	21.23	22.74	22.72	22.26	21.22	22.00	23.50	23.00	22.00
		1	99	21.23	22.69	22.76	22.18	21.13	22.00	23.50	23.00	22.00
20	16-QAM	50	0	20.27	21.90	21.76	21.23	20.15	21.00	22.50	22.00	21.00
		50	25	20.22	21.85	21.83	21.36	20.30	21.00	22.50	22.00	21.00
		50	50	20.28	21.75	21.80	21.35	20.23	21.00	22.50	22.00	21.00
		100	0	20.37	21.85	21.84	21.27	20.17	21.00	22.50	22.00	21.00
		1	0	20.21	22.10	21.94	21.54	20.50	21.00	22.50	22.00	21.00
		1	50	20.48	21.70	21.78	21.46	20.20	21.00	22.50	22.00	21.00
		1	99	20.38	21.72	21.96	21.16	20.38	21.00	22.50	22.00	21.00
	64-QAM	50	0	19.29	21.04	20.94	20.49	19.08	20.00	21.50	21.00	20.00
		50	25	19.28	20.89	21.00	20.49	19.30	20.00	21.50	21.00	20.00
		50	50	19.35	20.78	21.03	20.34	19.34	20.00	21.50	21.00	20.00
		100	0	19.58	21.09	20.97	20.47	19.37	20.00	21.50	21.00	20.00
	Frequenc	cy (MHz)		2503.5	2548.3	2593	2637.8	2682.5	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690
	Cha	nnel		39725	40173	40620	41068	41515	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590
		1	0	22.12	23.53	23.62	23.08	22.09	23.00	24.50	24.00	23.00
		1	36	22.03	23.53	23.64	23.15	21.96	23.00	24.50	24.00	23.00
		1	74	22.05	23.59	23.69	23.23	22.20	23.00	24.50	24.00	23.00
	QPSK	36	0	21.28	22.84	22.64	22.29	21.17	22.00	23.50	23.00	22.00
		36	18	21.20	22.70	22.73	22.24	21.11	22.00	23.50	23.00	22.00
		36	37	21.21	22.79	22.72	22.14	21.21	22.00	23.50	23.00	22.00
		75	0	21.21	22.74	22.84	22.27	21.12	22.00	23.50	23.00	22.00
		1	0	21.24	22.84	22.83	22.21	21.34	22.00	23.50	23.00	22.00
		1	36	21.27	22.86	22.78	22.21	21.12	22.00	23.50	23.00	22.00
		1	74	21.19	22.83	22.84	22.20	21.17	22.00	23.50	23.00	22.00
15	16-QAM	36	0	20.17	21.76	21.77	21.24	20.12	21.00	22.50	22.00	21.00
		36	18	20.20	21.71	21.73	21.17	20.05	21.00	22.50	22.00	21.00
		36	37	20.11	21.72	21.75	21.17	20.15	21.00	22.50	22.00	21.00
		75	0	20.26	21.91	21.89	21.34	20.29	21.00	22.50	22.00	21.00
		1	0	20.19	21.87	21.76	21.52	20.33	21.00	22.50	22.00	21.00
		1	36	20.22	21.98	21.63	21.55	20.48	21.00	22.50	22.00	21.00
		1	74	20.45	21.86	21.91	21.23	20.06	21.00	22.50	22.00	21.00
	64-QAM	36	0	19.31	21.04	20.80	20.27	19.22	20.00	21.50	21.00	20.00
		36	18	19.46	20.88	20.91	20.32	19.48	20.00	21.50	21.00	20.00
		36	37	19.56	20.71	21.06	20.44	19.48	20.00	21.50	21.00	20.00
		75	0	19.43	21.07	21.11	20.39	19.13	20.00	21.50	21.00	20.00

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							LTE Band 41					
BW(Mhz)	Modulation	RB Size	RB Offset		Cond	ucted power	(dBm)			Target Power + N	lax. Tolerance (dBn	n)
	Frequen	cy (MHz)		2501	2547	2593	2639	2685	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690
	Cha	nnel		39700	40160	40620	41080	41540	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590
		1	0	21.98	23.52	23.51	23.00	22.05	23.00	24.50	24.00	23.00
		1	25	22.00	23.48	23.58	23.08	21.84	23.00	24.50	24.00	23.00
		1	49	22.02	23.55	23.56	23.20	22.12	23.00	24.50	24.00	23.00
	QPSK	25	0	21.16	22.80	22.55	22.28	21.11	22.00	23.50	23.00	22.00
		25	12	21.16	22.60	22.60	22.10	21.03	22.00	23.50	23.00	22.00
		25	25	21.10	22.71	22.60	22.08	21.20	22.00	23.50	23.00	22.00
		50	0	21.17	22.70	22.79	22.15	21.04	22.00	23.50	23.00	22.00
		1	0	21.09	22.82	22.70	22.14	21.29	22.00	23.50	23.00	22.00
		1	25	21.22	22.81	22.70	22.14	21.07	22.00	23.50	23.00	22.00
		1	49	21.06	22.77	22.83	22.07	21.11	22.00	23.50	23.00	22.00
10	16-QAM	25	0	20.06	21.64	21.74	21.10	20.01	21.00	22.50	22.00	21.00
		25	12	20.10	21.64	21.71	21.07	20.02	21.00	22.50	22.00	21.00
		25	25	19.98	21.72	21.69	21.16	20.11	21.00	22.50	22.00	21.00
		50	0	20.15	21.76	21.88	21.27	20.27	21.00	22.50	22.00	21.00
		1	0	20.13	21.78	22.07	21.43	20.35	21.00	22.50	22.00	21.00
		1	25	20.35	21.89	21.91	21.43	20.16	21.00	22.50 22.50	22.00	21.00
		1	49	20.32	21.86	22.02	21.35	20.06	21.00	22.50	22.00	21.00
	64-QAM	25	0	19.25	21.00	20.88	20.22	1.43 20.16 21.00 22 1.35 20.06 21.00 22 0.22 19.11 20.00 21 0.28 19.32 20.00 21	21.50	21.00	20.00	
		25	12	19.29	21.12	21.06	20.28	19.32	20.00	21.50	21.00	20.00
		25	25	19.23	20.95	20.84	20.62	19.28	20.00	21.50	21.00	20.00
		50	0	19.32	21.11	20.79	20.47	19.46	20.00	21.50	21.00	20.00
	Frequen	cy (MHz)		2498.5	2547.8	2593	2640.3	2687.5	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690
	Cha	nnel		39675	40148	40620	41093	41565	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590
		1	0	22.11	23.52	23.49	23.00	21.99	23.00	24.50	24.00	23.00
		1	12	21.91	23.43	23.63	23.00	21.86	23.00	24.50	24.00	23.00
		1	24	21.99	23.58	23.62	23.14	22.14	23.00	24.50	24.00	23.00
	QPSK	12	0	21.28	22.73	22.51	22.20	21.14	22.00	23.50	23.00	22.00
		12	6	21.17	22.69	22.70	22.22	21.04	22.00	23.50	23.00	22.00
		12	13	21.13	22.69	22.67	22.00	21.09	22.00	23.50	23.00	22.00
		25	0	21.10	22.72	22.77	22.25	21.09	22.00	23.50	23.00	22.00
		1	0	21.16	22.75	22.77	22.14	21.32	22.00	23.50	23.00	22.00
		1	12	21.24	22.84	22.65	22.15	21.03	22.00	23.50	23.00	22.00
		1	24	21.09	22.74	22.74	22.19	21.11	22.00	23.50	23.00	22.00
5	16-QAM	12	0	20.17	21.76	21.62	21.23	20.01	21.00	22.50	22.00	21.00
		12	6	20.09	21.65	21.60	21.12	19.95	21.00	22.50	22.00	21.00
		12	13	20.09	21.66	21.60	21.07	20.07	21.00	22.50	22.00	21.00
		25	0	20.18	21.79	21.79	21.20	20.17	21.00	22.50	22.00	21.00
		1	0	20.34	22.01	21.80	21.42	20.35	21.00	22.50	22.00	21.00
		1	12	20.43	21.95	21.98	21.54	20.41	21.00	22.50	22.00	21.00
		1	24	20.39	21.62	21.95	21.09	20.21	21.00	22.50	22.00	21.00
	64-QAM	12	0	19.36	21.09	20.96	20.41	19.10	20.00	21.50	21.00	20.00
		12	6	19.41	20.82	20.86	20.66	19.52	20.00	21.50	21.00	20.00
		12	13	19.57	21.03	21.05	20.49	19.39	20.00	21.50	21.00	20.00
		25	0	19.44	21.12	21.00	20.56	19.26	20.00	21.50	21.00	20.00

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Down power with enable hotspot mode _ANT 1

			LT	E Band 2			
BW(Mhz)	Modulation	RB Size	RB Offset	Cond	ucted power ((dBm)	Townst
	Frequenc	cy (MHz)		1860	1880	1900	Target Power + Max. Tolerance (dBm)
	Char	nnel		18700	18900	19100	Tolcrance (dbiii)
		1	0	19.66	19.53	19.48	20.00
		1	50	19.57	19.55	19.48	20.00
		1	99	19.49	19.51	19.48	20.00
	QPSK	50	0	19.49	19.54	19.48	20.00
		50	25	19.43	19.40	19.38	20.00
		50	50	19.46	19.43	19.37	20.00
		100	0	19.31	19.59	19.55	20.00
		1	0	19.36	19.30	19.56	20.00
		1	50	19.53	19.37	19.32	20.00
		1	99	19.38	19.34	19.50	20.00
20	16-QAM	50	0	19.55	19.49	19.43	20.00
		50	25	19.50	19.36	19.58	
	İ	50	50	19.36	19.37	19.48	
		100	0	19.33	19.33	19.42	
6		1	0	19.61	19.43	19.52	_
		1	50	19.41	19.32	19.53	
		1	99	19.58	19.42	19.60	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00
	64-QAM	50	0	19.40	19.58	19.42	
	0+ 0/ 1/1	50	25	19.58	19.40	19.33	20.00 20.00
		50	50	19.38	19.55	19.55	
		100	0	19.41	19.30	19.46	
	Frequenc		0	1857.5	1880	1902.5	
	Char	nnel		18675	18900	19125	Power + Max.
	T 1	1	0	19.57	19.35	19.43	20.00
		1	36	19.56	19.46	19.33	20.00
		1	74	19.42	19.40	19.39	20.00
	QPSK	36	0	19.55	19.57	19.39	20.00
		36	18	19.51	19.31	19.39	20.00
		36	37	19.33	19.53	19.42	20.00
		75	0	19.32	19.56	19.43	20.00
		1	0	19.36	19.50	19.43	
		1	36	19.47	19.51	19.37	
		1	74	19.43	19.60	19.48	
15	16-QAM	36	0	19.54	19.41	19.36	
-		36	18	19.46	19.31	19.48	
		36	37	19.36	19.31	19.43	
]	75	0	19.39	19.38	19.51	20.00
		1	0	19.57	19.44	19.46	20.00
	1	1	36	19.37	19.34	19.47	20.00
	1	1	74	19.54	19.54	19.49	20.00
	64-QAM	36	0	19.50	19.53	19.43	20.00
6	O+-CC/NIVI						
		36	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
		36 36	18 37	19.33 19.35	19.32 19.51	19.49 19.37	20.00

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			LT	E Band 2				
BW(Mhz)	Modulation	RB Size	RB Offset	Cond	ucted power ((dBm)	Target	
	Frequenc	cy (MHz)		1855	1880	1905	Power + Max. Tolerance (dBm)	
	Char	nnel		18650	18900	19150	Tolerance (abin)	
		1	0	19.60	19.39	19.49	20.00	
		1	25	19.57	19.45	19.41	20.00	
		1	49	19.49	19.55	19.57	20.00	
	QPSK	25	0	19.46	19.35	19.45	20.00	
		25	12	19.47	19.55	19.58	20.00	
		25	25	19.33	19.52	19.34	20.00	
		50	0	19.41	19.59	19.51	20.00	
		1	0	19.53	19.49	19.44	20.00	
		1	25	19.47	19.39	19.35	20.00	
		1	49	19.33	19.38	19.35	20.00	
10	16-QAM	25	0	19.54	19.53	19.32	20.00	
. •		25	12	19.44	19.52	19.49	20.00	
	1	25	25	19.34	19.55	19.38	20.00	
		50	0	19.48	19.31	19.56	20.00	
		1	0	19.60	19.35	19.31	20.00	
		1	25	19.49	19.50	19.41	20.00	
		1	49	19.39	19.48	19.45	20.00	
	64-QAM	25	0	19.42	19.43	19.45	20.00	
	04-QAIVI	25	12					
				19.37	19.31	19.45	20.00	
		25 50	25 0	19.54	19.49 19.30	19.33 19.32	20.00	
		50	1 0	19.56	19.30	19.32	20.00	
	Frequenc	cy (MHz)		1852.5	1880	1907.5	Target Power + Max.	
	Char	nnel		18625	18900	19175	Tolerance (dBm)	
		1	0	19.45	19.56	19.53	20.00	
		1	12	19.48	19.49	19.40	20.00	
		1	24	19.43	19.53	19.42	20.00	
	QPSK	12	0	19.45	19.54	19.45	20.00	
		12	6	19.31	19.40	19.58	20.00	
		12	13	19.43	19.54	19.45	20.00	
	İ	25	0	19.58	19.38	19.32	20.00	
		1	0	19.48	19.38	19.49	20.00	
		1	12	19.40	19.36	19.54	20.00	
		1	24	19.52	19.44	19.53	20.00	
5	16-QAM	12	0	19.56	19.58	19.43	20.00	
J	10 30, 111	12	6	19.44	19.48	19.54	20.00	
		12	13	19.55	19.36	19.43	20.00	
		25	0	19.46	19.35	19.43	20.00	
	1	1	0	19.46	19.50	19.42	20.00	
	1	1	12	19.52	19.50	19.53	20.00	
		1	24					
	64-QAM	12	0	19.56 19.45	19.46 19.44	19.46 19.54	20.00	
	04-QAIVI		_		_			
		12	6	19.30	19.52	19.42	20.00	
		12	13	19.47	19.42	19.40	20.00	
	j [25	0	19.59	19.51	19.53	20.00	

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			LT	E Band 2			
BW(Mhz)	Modulation	RB Size	RB Offset	Cond	ucted power (Target	
	Frequenc	cy (MHz)		1851.5	1880	1908.5	Power + Max. Tolerance (dBm)
	Cha	nnel		18615	18900	19185	roicianoc (abiii)
		1	0	19.55	19.30	19.53	20.00
		1	12	19.54	19.56	19.46	20.00
		1	24	19.37	19.60	19.31	20.00
	QPSK	12	0	19.35	19.40	19.34	20.00
		12	6	19.39	19.59	19.53	20.00
		12	13	19.54	19.44	19.46	20.00
		25	0	19.31	19.59	19.48	20.00
		1	0	19.51	19.57	19.57	20.00
		1	12	19.43	19.50	19.46	20.00
		1	24	19.33	19.39	19.33	20.00
3	16-QAM	12	0	19.31	19.47	19.34	20.00
		12	6	19.48	19.60	19.45	20.00
		12	13	19.54	19.44	19.43	20.00
		25	0	19.56	19.49	19.39	20.00
		1	0	19.35	19.37	19.38	20.00
		1	12	19.47	19.38	19.50	20.00
		1	24	19.32	19.41	19.37	20.00
	64-QAM	12	0	19.47	19.60	19.32	20.00
	0.00	12	6	19.43	19.45	19.34	20.00
		12	13	19.44	19.38	19.47	20.00
		25	0	19.53	19.56	19.56	20.00
	Frequenc			1850.7	1880	1909.3	Target
	Cha	nnel		18607	18900	19193	Power + Max. Tolerance (dBm)
		1	0	19.35	19.51	19.34	20.00
		1	12	19.45	19.39	19.39	20.00
		1	24	19.58	19.42	19.49	20.00
	QPSK	12	0	19.40	19.56	19.36	20.00
		12	6	19.52	19.56	19.36	20.00
		12	13	19.33	19.39	19.50	20.00
		25	0	19.40	19.48	19.41	20.00
		1	0	19.60	19.57	19.55	20.00
		1	12	19.57	19.57	19.47	20.00
		1	24	19.44	19.31	19.48	20.00
1.4	16-QAM	12	0	19.44	19.32	19.45	20.00
		12	6	19.33	19.44	19.58	20.00
		12	13	19.40	19.52	19.42	20.00
		25	0	19.44	19.36	19.51	20.00
		1	0	19.36	19.50	19.57	20.00
	1	1	12	19.52	19.48	19.48	20.00
		1	24	19.45	19.33	19.34	20.00
	64-QAM	1 12	24	19.45 19.60	19.33 19.45	19.34 19.40	20.00
	64-QAM	12	0	19.60	19.45	19.40	20.00
	64-QAM						

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ANT 3

							LTE Band 41					
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm) Target Power + Max. Tolerance (dBm)							n)	
Frequency (MHz)			2506	2549.5	2593	2636.5	2680	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690	
Channel				39750	40185	40620	41055	41490	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590
	1	1	0	13.19	13.29	13.31	13.26	13.18	14.00	14.00	14.00	14.00
		1	50	13.18	13.27	13.21	13.13	13.03	14.00	14.00	14.00	14.00
		1	99	13.18	13.26	13.33	13.21	13.07	14.00	14.00	14.00	14.00
	QPSK	50	0	13.40	13.47	13.37	13.28	13.20	14.00	14.00	14.00	14.00
		50	25	13.39	13.48	13.43	13.36	13.24	14.00	14.00	14.00	14.00
		50	50	13.39	13.48	13.43	13.32	13.21	14.00	14.00	14.00	14.00
		100	0	13.38	13.49	13.43	13.35	13.15	14.00	14.00	14.00	14.00
		1	0	13.15	13.27	13.31	13.26	13.20	14.00	14.00	14.00	14.00
		1	50	13.14	13.22	13.20	13.13	13.03	14.00	14.00	14.00	14.00
		1	99	13.15	13.23	13.27	13.16	13.03	14.00	14.00	14.00	14.00
20	16-QAM	50	0	13.18	13.29	13.19	13.09	13.00	14.00	14.00	14.00	14.00
		50	25	13.20	13.26	13.26	13.16	13.05	14.00	14.00	14.00	14.00
		50	50	13.18	13.27	13.24	13.12	13.01	14.00	14.00	14.00	14.00
		100	0	13.17	13.26	13.25	13.16	13.00	14.00	14.00	14.00	14.00
		1	0	13.10	12.99	13.11	12.97	12.92	14.00	14.00	14.00	14.00
		1	50	13.00	13.20	13.09	13.09	12.74	14.00	14.00	14.00	14.00
		1	99	13.14	12.99	13.25	13.01	12.90	14.00	14.00	14.00	14.00
	64-QAM	50	0	13.12	13.28	13.09	13.05	12.96	14.00	14.00	14.00	14.00
		50	25	13.10	13.22	13.24	13.18	13.05	14.00	14.00	14.00	14.00
		50	50	13.26	13.35	13.35	13.06	13.05	14.00	14.00	14.00	14.00
		100	0	13.14	13.23	13.20	13.07	12.98	14.00	14.00	14.00	14.00
	Frequen	cy (MHz)		2503.5	2548.3	2593	2637.8	2682.5	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690
	Cha	nnel		39725	40173	40620	41068	41515	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590
		1	0	13.09	13.15	13.14	13.08	13.00	14.00	14.00	14.00	14.00
		1	36	13.04	13.13	13.11	13.01	12.94	14.00	14.00	14.00	14.00
		1	74	13.08	13.25	13.23	13.12	13.02	14.00	14.00	14.00	14.00
	QPSK	36	0	13.22	13.31	13.23	13.18	13.06	14.00	14.00	14.00	14.00
		36	18	13.25	13.32	13.32	13.15	13.04	14.00	14.00	14.00	14.00
		36	37	13.24	13.31	13.29	13.20	13.08	14.00	14.00	14.00	14.00
		75	0	13.23	13.32	13.29	13.14	13.03	14.00	14.00	14.00	14.00
		1	0	13.05	13.13	13.14	13.10	13.00	14.00	14.00	14.00	14.00
		1	36	13.05	13.16	13.12	13.02	12.95	14.00	14.00	14.00	14.00
		1	74	13.04	13.25	13.22	13.11	12.99	14.00	14.00	14.00	14.00
15	16-QAM	36	0	13.04	13.13	13.03	12.96	12.87	14.00	14.00	14.00	14.00
		36	18	13.03	13.12	13.09	12.94	12.84	14.00	14.00	14.00	14.00
	1	36	37	13.03	13.12	13.08	12.99	12.88	14.00	14.00	14.00	14.00
		75	0	13.05	13.16	13.20	13.01	12.99	14.00	14.00	14.00	14.00
		1	0	13.02	13.12	13.10	12.97	12.91	14.00	14.00	14.00	14.00
	1	1	36	12.80	12.86	12.87	12.98	12.76	14.00	14.00	14.00	14.00
		1	74	13.01	13.22	12.95	13.01	12.85	14.00	14.00	14.00	14.00
	64-QAM	36	0	13.03	13.24	13.04	12.93	12.79	14.00	14.00	14.00	14.00
	1	36	18	13.02	13.22	13.14	12.95	13.00	14.00	14.00	14.00	14.00
	1	36	37	13.17	13.11	13.01	13.16	12.88	14.00	14.00	14.00	14.00
	1	75	0	13.11	13.06	13.11	12.96	12.77	14.00	14.00	14.00	14.00

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							LTE Band 41					
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm) Target Power + Max. Tolerance (dBm)							n)	
	Frequen	cy (MHz)		2501	2547	2593	2639	2685	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690
Channel				39700	40160	40620	41080	41540	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590
		1	0	13.00	13.08	12.99	13.06	12.87	14.00	14.00	14.00	14.00
		1	25	12.95	13.04	12.97	12.89	12.89	14.00	14.00	14.00	14.00
		1	49	12.99	13.24	13.10	13.12	12.98	14.00	14.00	14.00	14.00
	QPSK	25	0	13.10	13.29	13.10	13.04	13.05	14.00	14.00	14.00	14.00
		25	12	13.12	13.19	13.25	13.12	13.04	14.00	14.00	14.00	14.00
		25	25	13.24	13.19	13.16	13.12	12.94	14.00	14.00	14.00	14.00
		50	0	13.22	13.25	13.28	13.10	12.95	14.00	14.00	14.00	14.00
		1	0	12.99	13.05	13.02	12.99	12.95	14.00	14.00	14.00	14.00
		1	25	12.99	13.08	12.98	12.90	12.90	14.00	14.00	14.00	14.00
		1	49	12.95	13.22	13.18	12.97	12.93	14.00	14.00	14.00	14.00
10	16-QAM	25	0	12.93	12.99	12.95	12.86	12.82	14.00	14.00	14.00	14.00
		25	12	13.00	13.09	12.97	12.91	12.82	14.00	14.00	14.00	14.00
		25	25	12.97	13.00	13.06	12.88	12.87	14.00	14.00	14.00	14.00
		50	0	13.04	13.15	13.07	12.97	12.92	14.00	14.00	14.00	14.00
		1	0	12.90	12.92	12.78	12.90	12.72	14.00	14.00	14.00	14.00
		1	25	12.88	12.88	12.89	12.71	12.69	14.00	14.00	14.00	14.00
		1	49	12.71	13.10	12.91	12.93	12.92	14.00	14.00	14.00	14.00
	64-QAM	25	0	12.83	13.28	13.08	12.82	13.00	14.00	14.00	14.00	14.00
		25	12	12.94	13.01	13.18	12.93	13.03	14.00	14.00	14.00	14.00
		25	25	13.11	13.10	13.15	12.82	12.71	14.00	14.00	14.00	14.00
	50		0	12.98	13.12	13.12	13.03	12.94	14.00	14.00	14.00	14.00
	Frequen	cy (MHz)		2498.5	2547.8	2593	2640.3	2687.5	2496 ~ 2544.9	2545 ~ 2594.9	2595 ~ 2644.9	2645 ~ 2690
	Cha	nnel		39675	40148	40620	41093	41565	39650 ~ 40139	40140 ~ 40639	40640 ~ 41139	41140 ~ 41590
		1	0	12.99	12.95	13.08	13.02	12.89	14.00	14.00	14.00	14.00
		1	12	12.86	12.97	13.01	12.89	12.75	14.00	14.00	14.00	14.00
		1	24	12.95	13.11	13.03	12.99	12.94	14.00	14.00	14.00	14.00
	QPSK	12	0	13.02	13.13	13.14	13.12	12.92	14.00	14.00	14.00	14.00
		12	6	13.15	13.24	13.17	13.05	12.95	14.00	14.00	14.00	14.00
		12	13	13.04	13.16	13.14	13.10	12.97	14.00	14.00	14.00	14.00
		25	0	13.07	13.12	13.13	13.00	12.87	14.00	14.00	14.00	14.00
		1	0	12.96	12.93	13.04	12.96	12.92	14.00	14.00	14.00	14.00
		1	12	12.92	13.06	12.93	12.86	12.76	14.00	14.00	14.00	14.00
		1	24	12.97	13.07	13.12	13.02	12.82	14.00	14.00	14.00	14.00
5	16-QAM	12	0	12.85	13.06	12.93	12.88	12.79	14.00	14.00	14.00	14.00
		12	6	12.94	12.99	12.90	12.75	12.69	14.00	14.00	14.00	14.00
		12	13	12.93	12.96	12.93	12.82	12.72	14.00	14.00	14.00	14.00
		25	0	12.98	13.04	13.04	12.83	12.85	14.00	14.00	14.00	14.00
		1	0	12.93	12.91	12.82	12.92	12.83	14.00	14.00	14.00	14.00
		1	12	12.69	12.95	12.93	12.83	12.61	14.00	14.00	14.00	14.00
		1	24	12.70	13.09	12.84	12.78	12.92	14.00	14.00	14.00	14.00
	64-QAM	12	0	12.80	12.96	12.86	12.86	12.68	14.00	14.00	14.00	14.00
		12	6	13.02	13.08	12.89	13.00	12.79	14.00	14.00	14.00	14.00
		12	13	12.92	12.97	13.10	12.87	12.96	14.00	14.00	14.00	14.00
	1	25	0	12.78	12.93	13.05	12.83	12.76	14.00	14.00	14.00	14.00

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WLAN802.11 a/b/g/n/ac(20M/40M/80M) conducted power table:

	Main Antenna										
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)					
		1	2412		12.00	11.54					
		2	2417		15.00	14.70					
	802.11b	6	2437	1Mbps	15.00	14.76					
		10	2457		15.00	14.86					
		11	2462		12.00	11.70					
	802.11g	1	2412	6Mbps	12.00	11.74					
		2	2417		15.00	14.70					
2450 MHz		6	2437		15.00	14.51					
		10	2457		15.00	14.80					
		11	2462		12.00	11.86					
		1	2412		12.00	11.79					
		2	2417		15.00	14.70					
	802.11n20-HT0	6	2437	MCS0	15.00	14.51					
		10	2457		15.00	14.85					
		11	2462		12.00	11.94					

	Main Antenna										
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)					
		36	5180		11.00	10.63					
	802.11a	44	5220	6Mbps	12.00	11.70					
		48	5240		12.00	11.56					
		36	5180		11.00	10.60					
	802.11n20-HT0	44	5220	MCS0	12.00	11.86					
		48	5240		12.00	11.84					
5.15-5.25 GHz	802.11ac20-VHT0	36	5180		11.00	10.64					
5.15-5.25 GHZ		44	5220	MCS0	12.00	11.75					
		48	5240		12.00	11.66					
	802.11n40-HT0	38	5190	MCS0	11.00	10.80					
	002.1111 4 0-1110	46	5230	MCSU	12.00	11.69					
	802.11ac40-VHT0	38	5190	MCS0	11.00	10.62					
	002.118040-VF10	46	5230	IVICOU	12.00	11.65					
	802.11ac80-VHT0	42	5210	MCS0	12.00	11.87					

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Main Antenna										
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		52	5260		12.00	11.74				
	802.11a	60	5300	6Mbps	12.00	11.60				
		64	5320		11.00	10.58				
	802.11n20-HT0	52	5260		12.00	11.78				
		60	5300	MCS0	12.00	11.50				
		64	5320		11.00	10.72				
5.25-5.35 GHz	802.11ac20-VHT0	52	5260		12.00	11.71				
5.25-5.35 GHZ		60	5300	MCS0	12.00	11.52				
		64	5320		11.00	10.58				
	802.11n40-HT0	54	5270	MCS0	12.00	11.62				
	002.1111 4 0-1110	62	5310	IVICOU	11.00	10.68				
	802.11ac40-VHT0	54	5270	MCS0	12.00	11.57				
	002.11ab40-V110	62	5310	IVICOU	11.00	10.77				
	802.11ac80-VHT0	58	5290	MCS0	12.00	11.65				

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		Ma	in Antenna			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		11.00	10.60
	802.11a	116	5580	6Mbps	12.00	10.78
	002.11a	140	5700		11.00	10.75
		144	5720		12.00	11.64
		100	5500		11.00	10.60
	802.11n20-HT0	116	5580	MCS0	12.00	11.81
		140	5700	IVICOU	11.00	10.82
		144	5720		12.00	11.71
	802.11ac20-VHT0	100	5500		11.00	10.61
		116	5580	MCS0	12.00	11.77
		140	5700	IVICOU	11.00	10.55
5600 MHz		144	5720		12.00	11.68
		102	5510		11.00	10.73
	802.11n40-HT0	110	5550	MCS0	12.00	11.51
	002.111140-1110	134	5670	WOOO	11.00	10.51
		142	5710		12.00	11.73
		102	5510		11.00	10.76
	802.11ac40-VHT0	110	5550	MCS0	12.00	11.51
	002.1180 1 0-VIII0	134	5670	IVICOU	11.00	10.50
		142	5710		12.00	11.68
		106	5530		12.00	11.87
	802.11ac80-VHT0	122	5610	MCS0	12.00	11.54
		138	5690		12.00	11.84

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		Mai	n Antenna			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		11.00	10.69
	802.11a	157	5785	6Mbps	12.00	11.60
		165	5825	Data Rate		10.71
	802.11n20-HT0	149	5745		11.00	10.70
		157	5785	MCS0	12.00	11.64
		165	5825		11.00	10.58
5800 MHz		149	5745		11.00	10.60
3600 MHZ	802.11ac20-VHT0	157	5785	MCS0	12.00	11.68
		165	5825		11.00	10.61
	802.11n40-HT0	151	5755	MCSO	11.00	10.50
	002.1111 4 0-1110	159	5795	IVICOU	11.00	10.54
	802.11ac40-VHT0	151	5755	MCSO	11.00	10.43
	002.11ab40-VH10	159	5795	IVICOU	11.00	10.51
	802.11ac80-VHT0	155	5775	MCS0	12.00	11.57

Bluetooth maximum power table:

Procedur maximum porror table.									
Mode	Channel	Frequency	Average	Max. Rated Avg.					
Wode Chainer		(MHz)	1Mbps	2Mbps	3Mbps	Tolerance (dBm)			
	CH 00	2402	10.56	6.96	7.15				
BR/EDR	CH 39	2441	10.60	7.63	7.73	12.6			
	CH 78	2480	10.52	7.01	7.04				
Mode	Channel	Average Output Power (dB		er (dBm)	Max. Rated Avg. Power + Max.				
		(MHz)	GFSK			Tolerance (dBm)			
	CH 00	2402		3.49					
LE	CH 19	2442		5.26					
	CH 39	2480		5.16		12.6			
	CH 00	2402		3.74		12.0			
LE_2M	CH 19	2442		5.58					
	CH 39	2480		5.57		1			

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BT_duty(2.88/3.75=0.768)



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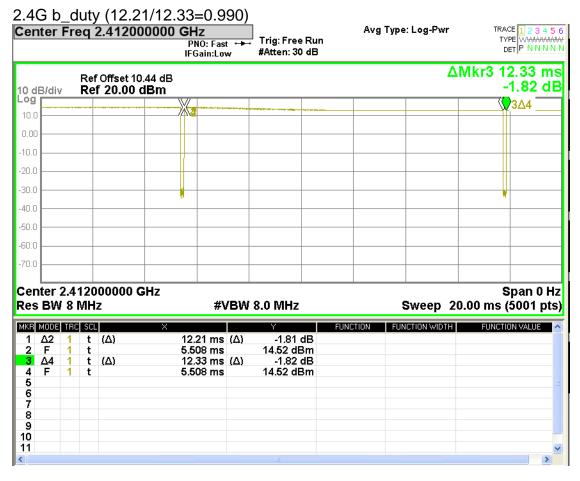
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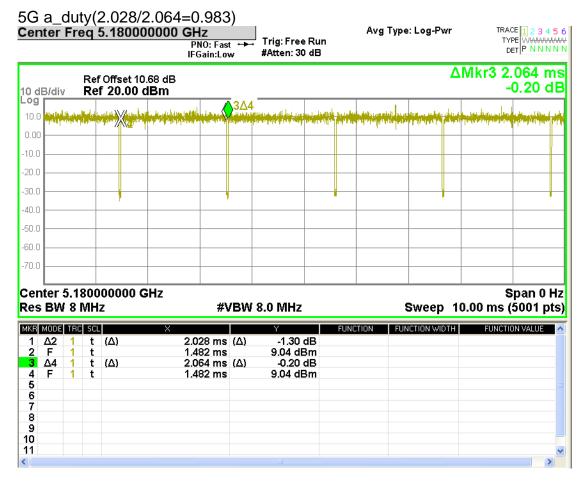
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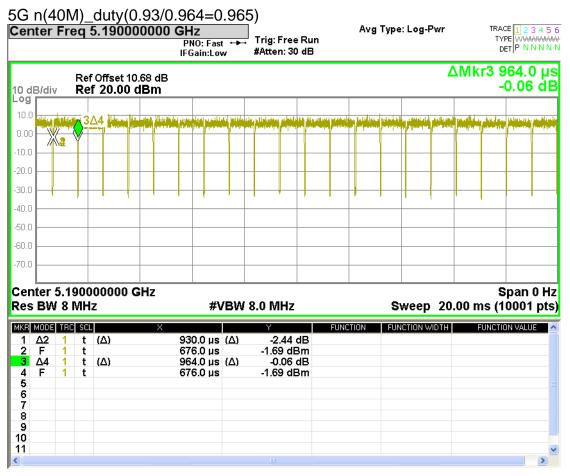
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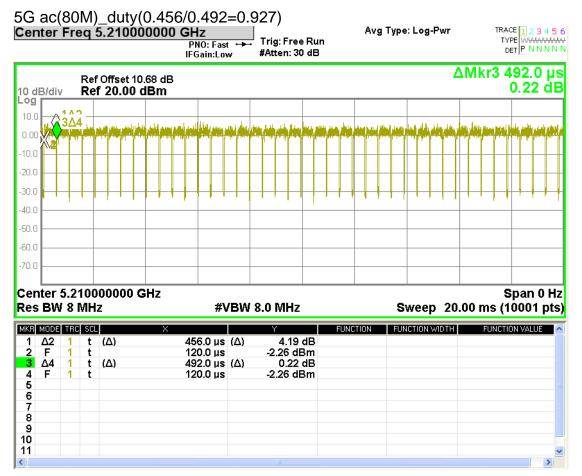


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1.4 Test Environment

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

1.5 Operation Description

- The EUT is controlled by using a Radio Communication Tester, and the communication between the EUT and the tester is established by air link.
- 2. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- 3. During the SAR testing, the DASY 5 system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- 4. SAR test reduction for GPRS mode is determined by the source-based timeaveraged output power. The data mode with highest specified time-averaged output power should be tested for SAR compliance.
- 5. The 3G SAR test reduction procedure is applied to HSDPA with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSDPA) is $\leq \frac{1}{4}$ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSDPA).

Sub-test	βε	βα	βd (SF)	β∂βα	β _{HS} ⁽¹⁾⁽²⁾	CM ⁽³⁾ (dB)	MPR ⁽³⁾ (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	12/15 ⁽⁴⁾	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

6. The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA) is $\leq \frac{1}{4}$ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA).

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Note 1: Δ_{ΑCK,} Δ_{ΝΑCK} and Δ_{COI} = 30/15 with β_{HS} = 30/15 * β_C.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and Δ_{NACK} = 30/15 with β_{HS} = 30/15 * β_e, and Δ_{CGI} = 24/15 with $\beta_{HS} = 24/15 * \beta_{C}$

Note 3: CM = 1 for β_σ/β_q = 12/15, β_{HS}/β_c = 24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$



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Sub-test	βο	βd	β _d (SF)	β _c /β _d	β _{HS} (1)	βes	β _{ed} (4)(5)	β _{ed} (SF)	β _{ed} (Codes)	CM (2) (dB)	MPR (2)(6) (dB)	AG (5) Index	E-TFCI
1	11/15 (3)	15/15 (3)	64	11/15 (3)	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	βed1: 47/15 βed2: 47/15		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	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

7. LTE modes test according to KDB 941225D05v02r05.

- a. 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. b. 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.
- c. 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 \leq 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
- d. 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

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Note 1: For sub-test 1 to 4, Δαρκ, Δαρκ, αναρα and Δροι = 30/15 with β_{HS} = 30/15 * β_E. For sub-test 5, Δαρκ, Δαρκ, Δαρκ and Δροι = 5/15 with β_{HS} = 5/15 * β_E.

Note 2: CM = 1 for β₂/β_d = 12/15, β_{HS}β_e = 24/15. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM. difference.

Note 3: For subtest 1 the β-β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_e = 10/15$ and $\beta_d = 15/15$.

lote 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g

Note 5: βed can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values



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than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

- e. 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/kg. 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.
- TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.

WLAN

802.11b DSSS SAR Test Requirements:

- 8. SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 9. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- 802.11g/n OFDM SAR Test Exclusion Requirements:
- 10.SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

Initial Test Configuration:

11. An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest

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maximum output power specified for production units in each standalone and aggregated frequency band.

- 12. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- 13. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for subsequent test configuration.
- 14. According to KDB447498D01v06, 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 \leq 100MHz.
- 15. According to **KDB865664D01v01r04**, 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)
- 16. The device supports hotspot mode power reduction in WCDMA B2 and LTE B2.

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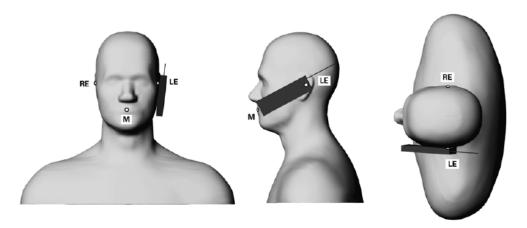
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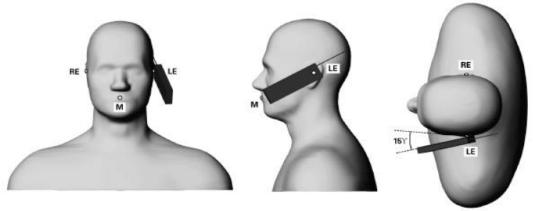
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1.6 Positioning Procedure

Head SAR measurement statement



Phone position 1, "cheek" or "touch" position. The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning.



Phone position 2, "tilted position." The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning.

Cheek/Touch Position:

The handset was brought toward the mouth of the head phantom by pivoting against the ear reference point until any point of the mouthpiece or keypad touched the phantom.

Ear/Tilt Position:

With the phone aligned in the Cheek/Touch position, the handset was tilted away from the mouth with respect to the test device reference point by 15 degrees.

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Body SAR measurement statement

1. Body-worn exposure: 10mm

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative test separation distance configuration may be used to support both SAR conditions. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.

2. Hotspot exposure: 10mm

A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge when the form factor of a handset is larger than 9 cm x 5 cm.

- Phablet SAR test consideration
 - When the device is a phablet (overall diagonal dimension > 16.0 cm), the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for product specific 10-g SAR. Since the device is not a phablet, product specific 10-g SAR is not required.
- 4. Based on KDB941225D06v02r01, the hotspot mode and body-worn accessory SAR test configurations may overlap for handsets. When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations. For WCDMA / LTE / WLAN, since the maximum power is the same between body-worn and hotspot mode, and the test distance of hotspot mode is the same with that of body-worn mode, hotspot mode SAR is used to support body-worn SAR. For GSM850/1900, since the wireless mode transmission configurations is different between body-worn and hotspot mode, body-worn SAR is performed.

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1.7 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.
- The interpolation of all measured values from the measurement grid to the highresolution 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. 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

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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.

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1.8 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:

1.8.1 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.

$$SAR = C \frac{\delta T}{\delta t}$$
,

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:

- 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

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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.

- 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 ρ), 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].



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1.8.2 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.
- 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

- (1) 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.
- (3) 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.

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1.9 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). Model EX3DV4 field probes are 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.

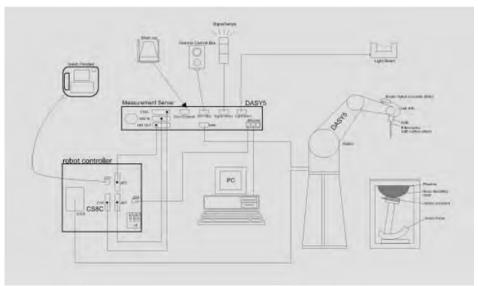


Fig. a A block diagram of the SAR measurement system

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

- 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).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- 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.
- 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 Windows7
- 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.

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1.10 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 835/1900/2450/2600/5200/5300/5600/5800MHz Additional CF for other liquids and frequencies upon request
Frequency	10 MHz to > 6 GHz, Linearity: ± 0.6 dB
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic	10 μW/g to > 100 mW/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%.

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Phantom

i mantom	
Model	Twin SAM
	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
Dimensions	Height: 850 mm; Length: 1000 mm; Width: 500 mm

DEVICE HOLDER

DEVICE HOL	DER
Construction	In combination with the Twin SAM
	Phantom V4.0/V4.0C or Twin SAM, the
	Mounting Device (made from POM)
	enables the rotation of the mounted
	transmitter in spherical coordinates,
	whereby the rotation point is the ear
	opening. The devices can be easily and
	accurately positioned according to IEC,
	IEEE, CENELEC, FCC or other
	specifications. The device holder can be
	locked at different phantom locations (left
	head, right head, flat phantom).



Device Holder

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1.11 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% (according to KDB865664D01) from the target SAR values. These tests were done at 835/1900/2450/2600/5200/5300/5600/5800MHz. 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. During the tests, the liquid depth above the ear reference points was above 15 cm (≤3G) or 10 cm (>3G) 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.

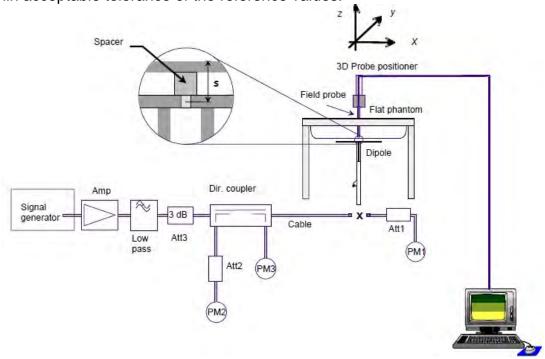


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequ (MH	-	1W Target SAR-1g (mW/g)	pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D835V2	4d063	835	Head	9.52	2.41	9.64	1.26%	Jan. 12, 2021
D1900V2	5d173	1900	Head	39.4	9.86	39.44	0.10%	Jan. 13, 2021
D1900V2	5d173	1900	Head	39.4	9.58	38.32	-2.74%	Jan. 14, 2021
D2450V2	727	2450	Head	52.6	13.30	53.20	1.14%	Jan. 08, 2021
D2600V2	1005	2600	Head	57.3	14.90	59.60	4.01%	Jan. 09, 2021
D2600V2	1005	2600	Head	57.3	14.80	59.20	3.32%	Jan. 10, 2021
D2600V2	1005	2600	Head	57.3	14.40	57.60	0.52%	Jan. 11, 2021
Validation Kit	S/N	•	Frequency (MHz) 1W Tar SAR-1 (mW/g		pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
	1023	5200	Head	80.1	8.18	81.80	2.12%	Jan. 07, 2021
D5GHzV2	1023	5300	Head	82.8	8.15	81.50	-1.57%	Jan. 07, 2021
03011272	1023	5600	Head	83.1	8.47	84.70	1.93%	Jan. 07, 2021
	1023	5800	Head	81.4	8.22	82.20	0.98%	Jan. 07, 2021

Table 1. Results of system validation

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1.12 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-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.

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 at least 15 cm (≤3G) or 10 cm (>3G) during all tests. (Appendix Fig. 2)

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Tissue Type	Measurement Date	Measured Frequency	Target Dielectric Constant,	Target Conductivity,	Measured Dielectric Constant,	Measured Conductivity,	% dev εr	% dev
		(MHz)	εr	σ (S/m)	εr	σ (S/m)		
		824.2	41.556	0.899	42.054	0.907	1.20%	0.87%
		826.4	41.545	0.899	42.043	0.908	1.20%	0.969
		829	41.531	0.900	42.046	0.909	1.24%	1.05%
		835	41.500	0.900	42.019	0.910	1.25%	1.119
	Jan. 12, 2021	836.5	41.500	0.902	42.014	0.911	1.24%	1.049
		836.6	41.500	0.902	42.002	0.911	1.21%	1.039
		844	41.500	0.910	41.989	0.918	1.18%	0.919
		846.6	41.500	0.912	41.985	0.922	1.17%	1.049
		848.8	41.500	0.915	41.977	0.924	1.15%	1.009
		1850.2	40.000	1.400	39.668	1.381	-0.83%	-1.36
		1852.4	40.000	1.400	39.665	1.382	-0.84%	-1.29
	lan 12 2021	1880	40.000	1.400	39.664	1.383	-0.84%	-1.21
	Jan. 13, 2021	1900	40.000	1.400	39.657	1.384	-0.86%	-1.14
		1907.6	40.000	1.400	39.653	1.385	-0.87%	-1.07
		1909.8	40.000	1.400	39.652	1.386	-0.87%	-1.00
		1860	40.000	1.400	39.672	1.381	-0.82%	-1.36
	Jan. 14, 2021	1880	40.000	1.400	39.660	1.382	-0.85%	-1.29
		1900	40.000	1.400	39.654	1.384	-0.86%	-1.14
		2441	39.216	1.792	39.420	1.797	0.52%	0.289
	Jan. 08, 2021	2450	39.200	1.800	39.384	1.805	0.47%	0.289
		2457	39.191	1.808	39.375	1.812	0.47%	0.249
		2510	39.124	1.865	39.300	1.871	0.45%	0.309
		2535	39.092	1.893	39.283	1.899	0.49%	0.339
		2560	39.060	1.920	39.244	1.925	0.47%	0.269
	Jan. 09, 2021	2580	39.035	1.942	39.226	1.948	0.49%	0.329
Head	,	2595	39.015	1.958	39.214	1.964	0.51%	0.309
		2600	39.009	1.964	39.200	1.970	0.49%	0.329
		2610	38.996	1.975	39.199	1.981	0.52%	0.339
		2506	39.129	1.861	39.317	1.868	0.48%	0.379
		2549.5	39.073	1.909	39.284	1.914	0.54%	0.299
		2580	39.035	1.942	39.222	1.948	0.48%	0.329
		2593	39.018	1.956	39.197	1.963	0.46%	0.369
	Jan. 10, 2021	2595	39.015	1.958	39.195	1.966	0.46%	0.409
		2600	39.009	1.964	39.192	1.969	0.47%	0.279
		2610	38.996	1.975	39.184	1.981	0.48%	0.339
		2636.5	38.963	2.003	39.142	2.010	0.46%	0.339
		2680	38.907	2.051	39.121	2.058	0.55%	0.359
		2506	39.129	1.861	39.324	1.867	0.50%	0.329
		2549.5	39.073	1.909	39.265	1.914	0.49%	0.299
		2593	39.018	1.956	39.229	1.963	0.54%	0.369
	Jan. 11, 2021	2600	39.009	1.964	39.220	1.970	0.54%	0.329
		2636.5	38.963	2.003	39.142	2.009	0.46%	0.289
		2680	38.907	2.051	39.086	2.057	0.46%	0.309
		5200	35.986	4.655	35.755	4.641	-0.64%	-0.30
		5210	35.974	4.665	35.744	4.649	-0.64%	-0.35
		5290	35.883	4.747	35.686	4.735	-0.55%	-0.26
		5300	35.871	4.758	35.660	4.741	-0.59%	-0.35
	Jan. 07, 2021	5530	35.609	4.993	35.395	4.979	-0.60%	-0.29
		5600	35.529	5.065	35.333	5.050	-0.55%	-0.30
		5775	35.329	5.244	35.102	5.228	-0.64%	-0.31
		3,,,	33.323	5.270	35.102	5.256	-0.65%	-0.31

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the tissue simulating liquid:

·								
				Total				
Frequency (MHz)	Mode	DGMBE	Water	Salt	Preventol D-7	Cellulose	Sugar	Total amount
835	Head	1	532.98 g	18.3 g	2.4 g	3.2 g	766 g	1.3L(Kg)
1900	Head	444.52 g	552.42 g	3.06 g	I	ı	ı	1.0L(Kg)
2450	Head	550 g	450 g	_	_	_	ı	1.0L(Kg)
2600	Head	550 g	450 g	_	_	_	_	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

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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.

1. 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 a 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 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.

2. Limits for General Population/Uncontrolled exposure: 0.08 W/kg as 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).

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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 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 .6)

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

Table 4. RF exposure limits

Notes:

- Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
- 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.

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2. Summary of Results

2.1 Decision rules

Reported measurement data comply with IEEE 1528-2013: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.2 Summary of Results

ANT1 **GSM 850**

GOINI GOU										
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S (W/	J	Plot page
					roioidiloo (dBiii)	(42)		Measured	Reported	
	Re Cheek	-	128	824.2	33.50	32.40	128.82%	0.22	0.28	-
	Re Cheek	-	190	836.6	33.50	32.42	128.23%	0.24	0.31	84
Head	Re Cheek	-	251	848.8	33.50	32.30	131.83%	0.21	0.28	-
(GSM)	Re Tilt	-	190	836.6	33.50	32.42	128.23%	0.12	0.15	-
	Le Cheek	-	190	836.6	33.50	32.42	128.23%	0.21	0.27	-
	Le Tilt	-	190	836.6	33.50	32.42	128.23%	0.11	0.14	-
	Front side	10	128	824.2	33.50	32.40	128.82%	0.25	0.32	85
Body-worn	Front side	10	190	836.6	33.50	32.42	128.23%	0.24	0.31	-
(GSM)	Front side	10	251	848.8	33.50	32.30	131.83%	0.23	0.30	-
	Back side	10	190	836.6	33.50	32.42	128.23%	0.22	0.28	-
	Front side	10	251	848.8	28.50	27.82	116.95%	0.22	0.26	-
	Back side	10	251	848.8	28.50	27.82	116.95%	0.19	0.22	-
	Top side	10	251	848.8	28.50	27.82	116.95%	0.01	0.01	-
Hotspot (GSM)	Bottom side	10	251	848.8	28.50	27.82	116.95%	0.20	0.23	-
<1Dn4Up>	Right side	10	128	824.2	28.50	26.90	144.54%	0.45	0.65	-
	Right side	10	190	836.6	28.50	26.92	143.88%	0.46	0.66	86
	Right side	10	251	848.8	28.50	27.82	116.95%	0.35	0.41	-
	Left side	10	251	848.8	28.50	27.82	116.95%	0.31	0.36	-

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GSM 1900

Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S (W/	Plot page		
					roleianee (abiii)	(abiii)		Measured	Reported		
	Re Cheek	-	512	1850.2	30.50	29.75	118.85%	0.08	0.10	-	
	Re Cheek	-	661	1880	30.50	29.70	120.23%	0.09	0.11	-	
Head	Re Cheek	-	810	1909.8	30.50	29.68	120.78%	0.10	0.12	87	
(GSM)	Re Tilt	-	512	1850.2	30.50	29.75	118.85%	0.03	0.04	-	
	Le Cheek	-	512	1850.2	30.50	29.75	118.85%	0.04	0.05	-	
	Le Tilt	-	512	1850.2	30.50	29.75	118.85%	0.03	0.04	-	
	Front side	10	512	1850.2	30.50	29.75	118.85%	0.25	0.30	-	
Body-worn (GSM)	Front side	10	661	1880	30.50	29.70	120.23%	0.29	0.35	-	
(GSIVI)	Front side	10	810	1909.8	30.50	29.68	120.78%	0.37	0.45	88	
	Back side	10	512	1850.2	30.50	29.75	118.85%	0.16	0.19	-	
	Front side	10	810	1909.8	25.50	24.63	122.18%	0.42	0.51	-	
	Back side	10	810	1909.8	25.50	24.63	122.18%	0.23	0.28	-	
	Top side	10	810	1909.8	25.50	24.63	122.18%	0.02	0.02	-	
Hotspot (GSM)	Bottom side	10	512	1850.2	25.50	24.40	128.82%	0.57	0.73	-	
(GSIVI) <1Dn4Up>	Bottom side	10	661	1880	25.50	24.46	127.06%	0.58	0.74	-	
-1	Bottom side	10	810	1909.8	25.50	24.63	122.18%	0.66	0.81	89	
	Right side	10	810	1909.8	25.50	24.63	122.18%	0.03	0.04	-	
	Left side	10	810	1909.8	25.50	24.63	122.18%	0.13	0.16	-	

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WCDMA Band II

Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S (W/	U	Plot page
					((32)		Measured	Reported	
	Re Cheek	-	9262	1852.4	23.30	22.90	109.65%	0.25	0.27	-
	Re Cheek	-	9400	1880	23.30	22.95	108.39%	0.28	0.30	90
R99	Re Cheek	-	9538	1907.6	23.30	23.08	105.20%	0.16	0.17	-
(Head)	Re Tilt	-	9538	1907.6	23.30	23.08	105.20%	0.05	0.05	-
	Le Cheek	-	9538	1907.6	23.30	23.08	105.20%	0.08	0.08	-
	Le Tilt	-	9538	1907.6	23.30	23.08	105.20%	0.06	0.06	-
	Front side	10	9262	1852.4	23.30	22.90	109.65%	0.49	0.54	-
Body-Worn	Front side	10	9400	1880	23.30	22.95	108.39%	0.57	0.62	-
Body-Wolli	Front side	10	9538	1907.6	23.30	23.08	105.20%	0.62	0.65	91
	Back side	10	9538	1907.6	23.30	23.08	105.20%	0.37	0.39	-
	Front side	10	9538	1907.6	20.30	19.69	115.08%	0.28	0.32	-
	Back side	10	9538	1907.6	20.30	19.69	115.08%	0.19	0.22	-
	Top side	10	9538	1907.6	20.30	19.69	115.08%	0.01	0.01	-
Hotspot	Bottom side	10	9262	1852.4	20.30	19.50	120.23%	0.48	0.58	-
ноізроі	Bottom side	10	9400	1880	20.30	19.49	120.50%	0.54	0.65	-
	Bottom side	10	9538	1907.6	20.30	19.69	115.08%	0.57	0.66	92
	Right side	10	9538	1907.6	20.30	19.69	115.08%	0.04	0.05	-
	Left side	10	9538	1907.6	20.30	19.69	115.08%	0.11	0.13	-

WCDMA Band V

Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S (W/	Plot page	
						(- /		Measured	Reported	
	Re Cheek	-	4132	826.4	25.00	24.55	110.92%	0.28	0.31	-
	Re Cheek	-	4183	836.6	25.00	24.59	109.90%	0.32	0.35	-
R99	Re Cheek	-	4233	846.6	25.00	24.53	111.43%	0.33	0.37	93
(Head)	Re Tilt	-	4183	836.6	25.00	24.59	109.90%	0.16	0.18	-
	Le Cheek	-	4183	836.6	25.00	24.59	109.90%	0.27	0.30	-
	Le Tilt	-	4183	836.6	25.00	24.59	109.90%	0.10	0.11	-
Dady Mara	Front side	10	4183	836.6	25.00	24.59	109.90%	0.30	0.33	-
Body-Worn	Back side	10	4183	836.6	25.00	24.59	109.90%	0.29	0.32	-
	Front side	10	4183	836.6	25.00	24.59	109.90%	0.30	0.33	-
	Back side	10	4183	836.6	25.00	24.59	109.90%	0.29	0.32	-
	Top side	10	4183	836.6	25.00	24.59	109.90%	0.01	0.01	-
Llotonot	Bottom side	10	4183	836.6	25.00	24.59	109.90%	0.24	0.26	-
Hotspot	Right side	10	4132	826.4	25.00	24.55	110.92%	0.36	0.40	-
•	Right side	10	4183	836.6	25.00	24.59	109.90%	0.39	0.43	94
	Right side	10	4233	846.6	25.00	24.53	111.43%	0.37	0.41	-
	Left side	10	4183	836.6	25.00	24.59	109.90%	0.23	0.25	-

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LTE FDD Band 2

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S (W/	kg)	Plot page	
												Measured	Reported		
				0	RE Cheek	-	18700	1860	23.00	22.34	116.41%	0.13	0.15	-	
					RE Cheek	-	18900	1880	23.00	22.45	113.50%	0.15	0.17	95	
			1 RB		RE Cheek	-	19100	1900	23.00	22.49	112.46%	0.14	0.16	-	
			110	99	RE Tilt	-	19100	1900	23.00	22.49	112.46%	0.09	0.10	-	
					LE Cheek	-	19100	1900	23.00	22.49	112.46%	0.09	0.10	-	
					LE Tilt	-	19100	1900	23.00	22.49	112.46%	0.09	0.10	-	
Head	20MHz	QPSK			RE Cheek	-	19100	1900	22.00	21.46	113.24%	0.13	0.15	-	
	20.02	α. σ. τ	50 RB	25	RE Tilt	-	19100	1900	22.00	21.46	113.24%	0.08	0.09	-	
			00110		LE Cheek	-	19100	1900	22.00	21.46	113.24%	0.08	0.09	-	
					LE Tilt	-	19100	1900	22.00	21.46	113.24%	0.08	0.09	-	
					RE Cheek	-	19100	1900	22.00	21.59	109.90%	0.12	0.13	-	
			10	0 RB	RE Tilt	-	19100	1900	22.00	21.59	109.90%	0.07	0.08	-	
				0.10	LE Cheek	-	19100	1900	22.00	21.59	109.90%	0.07	0.08	-	
					LE Tilt	-	19100	1900	22.00	21.59	109.90%	0.07	0.08	-	
			1 RB	99	Front side	10	19100	1900	23.00	22.49	112.46%	0.46	0.52	-	
					Back side	10	19100	1900	23.00	22.49	112.46%	0.33	0.37	-	
	Body-worn 20MHz				Front side	10	18700	1860	22.00	21.37	115.61%	0.36	0.42	-	
Body-worn		QPSK	50 RB	25	Front side	10	19100	1900	22.00	21.46	113.24%	0.54	0.61	96	
Body Wolli			30 KB		Back side	10	19100	1900	22.00	21.46	113.24%	0.32	0.36	-	
				50	Front side	10	18900	1880	22.00	21.39	115.08%	0.45	0.52	-	
			10	0 RB	Front side	10	19100	1900	22.00	21.59	109.90%	0.53	0.58	-	
				0110	Back side	10	19100	1900	22.00	21.59	109.90%	0.32	0.35	-	
					Front side	10	18700	1860	20.00	19.66	108.14%	0.21	0.23	-	
					Back side	10	18700	1860	20.00	19.66	108.14%	0.14	0.15	-	
					Top side	10	18700	1860	20.00	19.66	108.14%	0.02	0.02	-	
				0	Bottom side	10	18700	1860	20.00	19.66	108.14%	0.44	0.48	-	
			1 RB		Bottom side	10	19100	1900	20.00	19.48	112.72%	0.55	0.62	97	
			110		Right side	10	18700	1860	20.00	19.66	108.14%	0.04	0.04	-	
					Left side	10	18700	1860	20.00	19.66	108.14%	0.10	0.11	-	
				50	Bottom side	10	18900	1880	20.00	19.55	110.92%	0.50	0.55	-	
				30	Bottom side	10	19100	1900	20.00	19.48	112.72%	0.52	0.59	-	
				99	Bottom side	10	19100	1900	20.00	19.48	112.72%	0.52	0.59	-	
Hotspot	20MHz	QPSK			Front side	10	18900	1880	20.00	19.54	111.17%	0.20	0.22	-	
Потерот	ZUIVII-IZ	QFSK			Back side	10	18900	1880	20.00	19.54	111.17%	0.14	0.16	-	
			50 RB	0	Top side	10	18900	1880	20.00	19.54	111.17%	0.02	0.02	-	
			30 KB	"	Bottom side	10	18900	1880	20.00	19.54	111.17%	0.51	0.57	-	
					Right side	10	18900	1880	20.00	19.54	111.17%	0.04	0.04	-	
					Left side	10	18900	1880	20.00	19.54	111.17%	0.10	0.11	-	
					Front side	10	18900	1880	20.00	19.59	109.90%	0.21	0.23	-	
					Back side	10	18900	1880	20.00	19.59	109.90%	0.14	0.15	-	
				0 DD	Top side	10	18900	1880	20.00	19.59	109.90%	0.02	0.02	-	
			10	0 RB	Bottom side	10	18900	1880	20.00	19.59	109.90%	0.52	0.57	-	
						Right side	10	18900	1880	20.00	19.59	109.90%	0.04	0.04	-
1			I		Left side	10	18900	1880	20.00	19.59	109.90%	0.09	0.10	-	

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LTE FDD Band 5

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S. (W/		Plot page
									roleitanee (abiii)	(dDIII)		Measured	Reported	
				0	RE Cheek	-	20525	836.5	24.00	23.16	121.34%	0.17	0.21	-
					RE Cheek	-	20450	829	24.00	23.29	117.76%	0.16	0.19	-
			1 RB	25	RE Tilt	-	20450	829	24.00	23.29	117.76%	0.08	0.09	-
			IKD	25	LE Cheek	-	20450	829	24.00	23.29	117.76%	0.15	0.18	-
					LE Tilt	-	20450	829	24.00	23.29	117.76%	0.07	0.08	-
				49	RE Cheek	-	20600	844	24.00	23.28	118.03%	0.21	0.25	98
					RE Cheek	-	20450	829	23.00	22.40	114.82%	0.17	0.20	-
					RE Tilt	-	20450	829	23.00	22.40	114.82%	0.07	0.08	-
Head	10MHz	QPSK			LE Cheek	-	20450	829	23.00	22.40	114.82%	0.13	0.15	-
			25 RB	25	LE Tilt	-	20450	829	23.00	22.40	114.82%	0.06	0.07	-
					RE Cheek	-	20525	836.5	23.00	22.40	114.82%	0.17	0.20	-
					RE Tilt	-	20525	836.5	23.00	22.40	114.82%	0.07	0.08	-
					LE Cheek	-	20525	836.5	23.00	22.40	114.82%	0.13	0.15	-
					LE Tilt	-	20525	836.5	23.00	22.40	114.82%	0.06	0.07	-
					RE Cheek	-	20450	829	23.00	22.42	114.29%	0.17	0.19	-
			50) RB	RE Tilt	-	20450	829	23.00	22.42	114.29%	0.07	0.08	-
					LE Cheek	-	20450	829	23.00	22.42	114.29%	0.14	0.16	-
				1	LE Tilt	- 10	20450	829	23.00	22.42	114.29%	0.06	0.07	-
			1 RB	25	Front side	10	20450	829	24.00	23.29	117.76%	0.19	0.22	-
					Back side	10	20450	829	24.00	23.29	117.76%	0.20	0.24	-
					Front side	10	20450	829	23.00	22.40	114.82%	0.16	0.18	-
Body-worn	ody-worn 10MHz	QPSK	25 RB	25	Back side	10	20450	829	23.00	22.40	114.82%	0.17	0.20	-
, .					Front side	10	20525	836.5	23.00	22.40	114.82%	0.16	0.18	-
					Back side	10	20525	836.5	23.00	22.40	114.82%	0.17	0.20	-
			50) RB	Front side	10	20450	829	23.00	22.42	114.29%	0.17	0.19	-
					Back side	10	20450	829	23.00	22.42	114.29%	0.18	0.21	-
				0	Right side	10	20525	836.5	24.00	23.16	121.34%	0.33	0.40	99
					Front side	10	20450	829	24.00	23.29	117.76%	0.19	0.22	-
					Back side	10	20450	829	24.00	23.29	117.76%	0.20	0.24	-
			1 RB	25	Top side	10	20450	829	24.00	23.29	117.76%	0.01	0.01	-
					Bottom side	10	20450	829	24.00	23.29	117.76%	0.10	0.12	-
					Right side	10	20450	829	24.00	23.29	117.76%	0.26	0.31	-
					Left side	10	20450	829	24.00	23.29	117.76%	0.15	0.18	-
				49	Right side	10	20600	844	24.00	23.28	118.03%	0.30	0.35	-
					Front side	10	20450	829	23.00	22.40	114.82%	0.16	0.18	-
					Back side	10	20450	829	23.00	22.40	114.82%	0.17	0.20	-
					Top side	10	20450	829	23.00	22.40	114.82%	0.01	0.01	-
					Bottom side	10	20450	829	23.00	22.40	114.82%	0.08	0.09	-
Hotspot	10MHz	QPSK			Right side	10	20450	829	23.00	22.40	114.82%	0.26	0.30	-
Hotspot	TOWN 12	Qi Sit	25 RB	25	Left side	10	20450	829	23.00	22.40	114.82%	0.12	0.14	-
			23 10	2.5	Front side	10	20525	836.5	23.00	22.40	114.82%	0.16	0.18	-
					Back side	10	20525	836.5	23.00	22.40	114.82%	0.17	0.20	-
	1				Top side	10	20525	836.5	23.00	22.40	114.82%	0.01	0.01	-
					Bottom side	10	20525	836.5	23.00	22.40	114.82%	0.08	0.09	-
					Right side	10	20525	836.5	23.00	22.40	114.82%	0.26	0.30	-
	1				Left side	10	20525	836.5	23.00	22.40	114.82%	0.12	0.14	-
					Front side	10	20450	829	23.00	22.42	114.29%	0.17	0.19	-
	1		1		Back side	10	20450	829	23.00	22.42	114.29%	0.18	0.21	-
	1			N DD	Top side	10	20450	829	23.00	22.42	114.29%	0.01	0.01	-
İ			50) RB	Bottom side	10	20450	829	23.00	22.42	114.29%	0.09	0.10	-
					Right side	10	20450	829	23.00	22.42	114.29%	0.26	0.30	-
l			1		Left side	10	20450	829	23.00	22.42	114.29%	0.12	0.14	-

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LTE FDD Band 7

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Toloranoo (abiii)	(45)		Measured	Reported	
					RE Cheek	-	20850	2510	24.00	23.25	118.85%	0.07	0.08	-
					RE Cheek	-	21100	2535	24.00	23.26	118.58%	0.08	0.09	-
			1 RB	99	RE Cheek	-	21350	2560	24.00	23.14	121.90%	0.14	0.17	100
			IKD	99	RE Tilt	-	21100	2535	24.00	23.26	118.58%	0.03	0.04	-
					LE Cheek	-	21100	2535	24.00	23.26	118.58%	0.04	0.05	-
					LE Tilt	-	21100	2535	24.00	23.26	118.58%	0.02	0.02	-
Head	20MHz	QPSK			RE Cheek	-	21100	2535	23.00	22.22	119.67%	0.07	0.08	-
i icau	ZOIVII IZ	QI SIX	50 RB	25	RE Tilt	-	21100	2535	23.00	22.22	119.67%	0.02	0.02	-
			30 KB	25	LE Cheek	-	21100	2535	23.00	22.22	119.67%	0.04	0.05	-
					LE Tilt	-	21100	2535	23.00	22.22	119.67%	0.01	0.01	-
					RE Cheek	-	20850	2510	23.00	22.19	120.50%	0.05	0.06	-
			10	00 RB	RE Tilt	-	20850	2510	23.00	22.19	120.50%	0.02	0.02	-
			10		LE Cheek	-	20850	2510	23.00	22.19	120.50%	0.03	0.04	-
					LE Tilt	-	20850	2510	23.00	22.19	120.50%	0.01	0.01	-
			1 RB	99	Front side	10	21100	2535	24.00	23.26	118.58%	0.27	0.32	-
			TIND	33	Back side	10	21100	2535	24.00	23.26	118.58%	0.20	0.24	-
Body-worn 20MHz	20MH-	QPSK	50 RB	25	Front side	10	21100	2535	23.00	22.22	119.67%	0.22	0.26	-
	ZUIVINZ	QFSK	30 KB	25	Back side	10	21100	2535	23.00	22.22	119.67%	0.15	0.18	-
			10	0 RB	Front side	10	20850	2510	23.00	22.19	120.50%	0.18	0.22	-
			10	UND	Back side	10	20850	2510	23.00	22.19	120.50%	0.15	0.18	-
					Front side	10	21100	2535	24.00	23.26	118.58%	0.27	0.32	-
					Back side	10	21100	2535	24.00	23.26	118.58%	0.20	0.24	-
					Top side	10	21100	2535	24.00	23.26	118.58%	0.01	0.01	-
			1 RB	99	Bottom side	10	20850	2510	24.00	23.25	118.85%	0.36	0.43	-
			IKD	99	Bottom side	10	21100	2535	24.00	23.26	118.58%	0.44	0.52	-
					Bottom side	10	21350	2560	24.00	23.14	121.90%	0.51	0.62	101
					Right side	10	21100	2535	24.00	23.26	118.58%	0.20	0.24	-
					Left side	10	21100	2535	24.00	23.26	118.58%	0.01	0.01	-
					Front side	10	21100	2535	23.00	22.22	119.67%	0.22	0.26	-
Llatanat	20MHz	QPSK			Back side	10	21100	2535	23.00	22.22	119.67%	0.15	0.18	-
Hotspot	ZUIVINZ	UPSK	50 RB	25	Top side	10	21100	2535	23.00	22.22	119.67%	0.00	0.00	-
			50 KB	25	Bottom side	10	21100	2535	23.00	22.22	119.67%	0.33	0.39	-
					Right side	10	21100	2535	23.00	22.22	119.67%	0.16	0.19	-
					Left side	10	21100	2535	23.00	22.22	119.67%	0.01	0.01	-
	1			•	Front side	10	20850	2510	23.00	22.19	120.50%	0.18	0.22	-
					Back side	10	20850	2510	23.00	22.19	120.50%	0.15	0.18	-
				0 DD	Top side	10	20850	2510	23.00	22.19	120.50%	0.00	0.00	-
			10	0 RB	Bottom side	10	20850	2510	23.00	22.19	120.50%	0.28	0.34	-
					Right side	10	20850	2510	23.00	22.19	120.50%	0.14	0.17	-
	1				Left side	10	20850	2510	23.00	22.19	120.50%	0.01	0.01	-

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LTE TDD Band 38

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S (W/		Plot page
									Tolerance (dBiri)	(dBiii)		Measured	Reported	
					RE Cheek	-	37850	2580	24.00	23.19	120.50%	0.07	0.08	-
					RE Cheek	-	38000	2595	24.00	23.24	119.12%	0.09	0.11	-
			1 RB	0	RE Cheek	-	38150	2610	24.00	23.17	121.06%	0.10	0.12	102
			IKB	"	RE Tilt	-	38000	2595	24.00	23.24	119.12%	0.03	0.04	-
					LE Cheek	-	38000	2595	24.00	23.24	119.12%	0.03	0.04	-
					LE Tilt	-	38000	2595	24.00	23.24	119.12%	0.02	0.02	-
Head	20MHz	QPSK			RE Cheek	-	38000	2595	23.00	22.24	119.12%	0.08	0.10	-
пеаи	ZUIVINZ	QF3K	50 RB	50	RE Tilt	-	38000	2595	23.00	22.24	119.12%	0.02	0.02	-
			30 KB	30	LE Cheek	-	38000	2595	23.00	22.24	119.12%	0.02	0.02	-
					LE Tilt	-	38000	2595	23.00	22.24	119.12%	0.01	0.01	-
					RE Cheek	-	38000	2595	23.00	22.29	117.76%	0.07	0.08	-
			40	0.00	RE Tilt	-	38000	2595	23.00	22.29	117.76%	0.02	0.02	-
			10	0 RB	LE Cheek	-	38000	2595	23.00	22.29	117.76%	0.02	0.02	-
					LE Tilt	-	38000	2595	23.00	22.29	117.76%	0.01	0.01	-
			1 RB	0	Front side	10	38000	2595	24.00	23.24	119.12%	0.20	0.24	-
			1 KB	0	Back side	10	38000	2595	24.00	23.24	119.12%	0.16	0.19	-
Body-worn 20	001411	ODOK	50 RB		Front side	10	38000	2595	23.00	22.24	119.12%	0.21	0.25	-
	20MHz	QPSK	50 KB	50	Back side	10	38000	2595	23.00	22.24	119.12%	0.15	0.18	-
			40	0 DD	Front side	10	38000	2595	23.00	22.29	117.76%	0.19	0.22	-
			10	0 RB	Back side	10	38000	2595	23.00	22.29	117.76%	0.15	0.18	-
					Front side	10	38000	2595	24.00	23.24	119.12%	0.20	0.24	-
					Back side	10	38000	2595	24.00	23.24	119.12%	0.16	0.19	-
					Top side	10	38000	2595	24.00	23.24	119.12%	0.01	0.01	-
			4.00	0	Bottom side	10	37850	2580	24.00	23.19	120.50%	0.32	0.39	-
			1 RB	0	Bottom side	10	38000	2595	24.00	23.24	119.12%	0.36	0.43	-
					Bottom side	10	38150	2610	24.00	23.17	121.06%	0.40	0.48	103
					Right side	10	38000	2595	24.00	23.24	119.12%	0.22	0.26	-
					Left side	10	38000	2595	24.00	23.24	119.12%	0.01	0.01	-
					Front side	10	38000	2595	23.00	22.24	119.12%	0.21	0.25	-
Hotspot	20MHz	QPSK			Back side	10	38000	2595	23.00	22.24	119.12%	0.15	0.18	-
noispoi	ZUIVINZ	UPSK	50 RB	50	Top side	10	38000	2595	23.00	22.24	119.12%	0.01	0.01	-
			50 KB	50	Bottom side	10	38000	2595	23.00	22.24	119.12%	0.32	0.38	-
	1				Right side	10	38000	2595	23.00	22.24	119.12%	0.21	0.25	-
					Left side	10	38000	2595	23.00	22.24	119.12%	0.01	0.01	-
					Front side	10	38000	2595	23.00	22.29	117.76%	0.19	0.22	-
					Back side	10	38000	2595	23.00	22.29	117.76%	0.15	0.18	-
	1		10	0 RB	Top side	10	38000	2595	23.00	22.29	117.76%	0.01	0.01	-
			10	UKD	Bottom side	10	38000	2595	23.00	22.29	117.76%	0.31	0.37	-
					Right side	10	38000	2595	23.00	22.29	117.76%	0.20	0.24	-
			l		Left side	10	38000	2595	23.00	22.29	117.76%	0.01	0.01	-

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LTE TDD Band 41

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S (W/		Plot page
												Measured	Reported	
					RE Cheek	-	39750	2506	23.00	22.09	123.31%	0.02	0.02	-
					RE Cheek	-	40185	2549.5	24.50	23.72	119.67%	0.06	0.07	-
					RE Cheek	-	40620	2593	24.50	23.62	122.46%	0.08	0.10	-
			1 RB	0	RE Cheek	-	41055	2636.5	24.00	23.27	118.30%	0.11	0.13	104
			IND	0	RE Cheek	-	41490	2680	23.00	22.10	123.03%	0.10	0.12	-
					RE Tilt	-	40185	2549.5	24.50	23.72	119.67%	0.02	0.02	-
					LE Cheek	-	40185	2549.5	24.50	23.72	119.67%	0.03	0.04	-
Head	20MHz	QPSK			LE Tilt	-	40185	2549.5	24.50	23.72	119.67%	0.01	0.01	-
11000	20111112	Q. O.			RE Cheek	-	40185	2549.5	23.50	22.83	116.68%	0.04	0.05	-
			50 RB	0	RE Tilt	-	40185	2549.5	23.50	22.83	116.68%	0.01	0.01	-
			00 ND		LE Cheek	-	40185	2549.5	23.50	22.83	116.68%	0.01	0.01	-
					LE Tilt	-	40185	2549.5	23.50	22.83	116.68%	0.00	0.00	-
					RE Cheek	-	40185	2549.5	23.50	22.89	115.08%	0.04	0.05	-
			10	0 RB	RE Tilt	-	40185	2549.5	23.50	22.89	115.08%	0.01	0.01	-
					LE Cheek	-	40185	2549.5	23.50	22.89	115.08%	0.02	0.02	-
					LE Tilt	-	40185	2549.5	23.50	22.89	115.08%	0.00	0.00	-
			1RB	0	Front side	10	40185	2549.5	24.5	23.72	119.67%	0.23	0.28	-
					Back side	10	40185	2549.5	24.5	23.72	119.67%	0.14	0.17	-
Body-worn	20MHz	QPSK	50 RB	0	Front side	10	40185	2549.5	23.50	22.83	116.68%	0.20	0.23	-
,					Back side	10	40185	2549.5	23.50	22.83	116.68%	0.13	0.15	-
			10	0 RB	Front side	10	40185	2549.5	23.50	22.89	115.08%	0.20	0.23	-
					Back side	10	40185	2549.5	23.50	22.89	115.08%	0.13	0.15	-
					Front side	10	40185	2549.5	24.50	23.72	119.67%	0.23	0.28	-
					Back side	10	40185	2549.5	24.50	23.72	119.67%	0.14	0.17	-
					Top side	10	40185	2549.5	24.50	23.72	119.67%	0.01	0.01	-
					Bottom side	10	39750	2506	23.00	22.09	123.31%	0.14	0.17	-
			1 RB	0	Bottom side	10	40185	2549.5	24.50	23.72	119.67%	0.27	0.32	-
					Bottom side	10	40620	2593	24.50	23.62	122.46%	0.37	0.45	-
					Bottom side	10	41055	2636.5	24.00	23.27	118.30%	0.45	0.53	105
					Bottom side	10	41490	2680	23.00	22.10	123.03%	0.41	0.50	-
					Right side	10	40185	2549.5	24.50	23.72	119.67%	0.24	0.29	-
					Left side	10	40185	2549.5	24.50	23.72	119.67%	0.01	0.01	-
Hotspot	20MHz	QPSK			Front side	10	40185	2549.5	23.50	22.83	116.68%	0.20	0.23	-
·					Back side	10	40185	2549.5	23.50	22.83	116.68%	0.13	0.15	-
			50 RB	0	Top side	10	40185	2549.5	23.50	22.83	116.68%	0.01	0.01	-
					Bottom side	10	40185	2549.5	23.50	22.83	116.68%	0.23	0.27	-
					Right side	10	40185	2549.5	23.50	22.83	116.68%	0.22	0.26	-
					Left side	10	40185	2549.5	23.50	22.83	116.68%	0.01	0.01	-
					Front side	10	40185	2549.5	23.50	22.89	115.08%	0.20	0.23	-
					Back side	10	40185	2549.5	23.50	22.89	115.08%	0.13	0.15	-
			10	0 RB	Top side	10	40185	2549.5	23.50	22.89	115.08%	0.01	0.01	-
					Bottom side	10	40185	2549.5	23.50	22.89	115.08%	0.24	0.28	-
					Right side	10	40185	2549.5	23.50	22.89	115.08%	0.22	0.25	-
					Left side	10	40185	2549.5	23.50	22.89	115.08%	0.01	0.01	-

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ANT3

LTE TDD Band 41

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S (W/		Plot page
									Tolerance (dbiri)	(dDill)		Measured	Reported	
					RE Tilt	-	39750	2506	14.00	13.19	120.50%	0.18	0.22	-
				_	RE Tilt		40185	2549.5	14.00	13.29	117.76%	0.18	0.21	-
				0	RE Tilt	-	41055	2636.5	14.00	13.26	118.58%	0.18	0.21	-
			4.00		RE Tilt	-	41490	2680	14.00	13.18	120.78%	0.18	0.22	-
			1 RB		RE Cheek	-	40620	2593	14.00	13.33	116.68%	0.15	0.18	-
				99	RE Tilt	-	40620	2593	14.00	13.33	116.68%	0.20	0.23	106
				99	LE Cheek	-	40620	2593	14.00	13.33	116.68%	0.13	0.15	-
					LE Tilt	-	40620	2593	14.00	13.33	116.68%	0.16	0.19	-
					RE Cheek	-	40185	2549.5	14.00	13.48	112.72%	0.15	0.17	-
Head	20MHz	QPSK		25	RE Tilt	-	40185	2549.5	14.00	13.48	112.72%	0.20	0.23	-
				2.0	LE Cheek	-	40185	2549.5	14.00	13.48	112.72%	0.12	0.14	-
			50 RB		LE Tilt	-	40185	2549.5	14.00	13.48	112.72%	0.16	0.18	-
					RE Cheek	-	40185	2549.5	14.00	13.48	112.72%	0.15	0.17	-
				50	RE Tilt	-	40185	2549.5	14.00	13.48	112.72%	0.20	0.23	-
					LE Cheek	-	40185	2549.5	14.00	13.48	112.72%	0.13	0.15	-
					LE Tilt	-	40185	2549.5 2549.5	14.00 14.00	13.48 13.49	112.72%	0.16 0.15	0.18	-
					RE Cheek RE Tilt	-	40185 40185	2549.5 2549.5	14.00	13.49	112.46% 112.46%	0.15	0.17 0.22	-
			10	0 RB	LE Cheek	-	40185	2549.5	14.00	13.49	112.46%	0.20	0.22	-
					LE Tilt	-	40185	2549.5	14.00	13.49	112.46%	0.13	0.13	-
					Front side	10	40620	2593	14.00	13.33	116.68%	0.10	0.05	
			1 RB	99	Back side	10	40620	2593	14.00	13.33	116.68%	0.03	0.04	-
					Front side	10	40185	2549.5	14.00	13.48	112.72%	0.04	0.05	-
				25	Back side	10	40185	2549.5	14.00	13.48	112.72%	0.02	0.02	-
Body-worn	20MHz	QPSK	50 RB		Front side	10	40185	2549.5	14.00	13.48	112.72%	0.04	0.05	-
				50	Back side	10	40185	2549.5	14.00	13.48	112.72%	0.02	0.02	-
					Front side	10	40185	2549.5	14.00	13.49	112.46%	0.04	0.04	-
			10	0 RB	Back side	10	40185	2549.5	14.00	13.49	112.46%	0.02	0.02	-
					Top side	10	39750	2506	14.00	13.19	120.50%	0.08	0.10	-
				0	Top side	10	40185	2549.5	14.00	13.29	117.76%	0.08	0.09	-
				0	Top side	10	41055	2636.5	14.00	13.26	118.58%	0.08	0.09	-
					Top side	10	41490	2680	14.00	13.18	120.78%	0.08	0.10	-
			1 RB		Front side	10	40620	2593	14.00	13.33	116.68%	0.04	0.05	-
			TIND		Back side	10	40620	2593	14.00	13.33	116.68%	0.03	0.04	-
				99	Top side	10	40620	2593	14.00	13.33	116.68%	0.09	0.11	107
					Bottom side	10	40620	2593	14.00	13.33	116.68%	0.00	0.00	-
					Right side	10	40620	2593	14.00	13.33	116.68%	0.00	0.00	-
					Left side	10	40620	2593	14.00	13.33	116.68%	0.01	0.01	-
					Front side	10	40185	2549.5	14.00	13.48	112.72%	0.04	0.05	-
					Back side	10	40185	2549.5	14.00	13.48	112.72%	0.02	0.02	-
				25	Top side	10	40185	2549.5	14.00	13.48	112.72%	0.09	0.10	-
Hotspot	20MHz	QPSK			Bottom side	10	40185	2549.5	14.00	13.48	112.72%	0.00	0.00	-
					Right side	10	40185	2549.5	14.00	13.48	112.72%	0.00	0.00	-
			50 RB		Left side	10	40185	2549.5	14.00	13.48	112.72%	0.01	0.01	-
					Front side	10	40185	2549.5	14.00	13.48	112.72%	0.04	0.05	-
					Back side	10	40185	2549.5	14.00	13.48	112.72%	0.02	0.02	-
				50	Top side	10	40185	2549.5	14.00	13.48	112.72%	0.09	0.10	_
					Bottom side Right side	10 10	40185 40185	2549.5 2549.5	14.00 14.00	13.48 13.48	112.72% 112.72%	0.00	0.00	-
					Left side	10	40185	2549.5	14.00	13.48	112.72%	0.00	0.00	-
			-		Front side	10	40185 40185	2549.5 2549.5	14.00 14.00	13.48	112.72%	0.00	0.00	-
					Back side	10	40185	2549.5	14.00	13.49	112.46%	0.04	0.04	-
					Top side	10	40185	2549.5	14.00	13.49	112.46%	0.02	0.02	-
			10	0 RB	Bottom side	10	40185	2549.5	14.00	13.49	112.46%	0.09	0.10	-
					Right side	10	40185	2549.5	14.00	13.49	112.46%	0.00	0.00	-
					i isiuiii siue	1 10	40100	2045.0	14.00	13.45	112.40%	0.00	0.00	

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WLAN 802.11b

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged S (W/	U	Plot page
						Tolerance (dBm)	(dBm)	Ŭ	J	Measured	Reported	
		RE Cheek	-	10	2457	15	14.86	1.010	103.25%	0.35	0.36	108
	Head	RE Tilt	-	10	2457	15	14.86	1.010	103.25%	0.32	0.33	-
	пеаи	LE Cheek	-	10	2457	15	14.86	1.010	103.25%	0.20	0.21	-
		LE Tilt	-	10	2457	15	14.86	1.010	103.25%	0.16	0.17	-
	Body-	Front side	10	10	2457	15	14.86	1.010	103.25%	0.08	0.08	-
Main	worn	Back side	10	10	2457	15	14.86	1.010	103.25%	0.11	0.11	-
IVIAIII		Front side	10	10	2457	15	14.86	1.010	103.25%	(WHS) Measured Reported 03.25% 0.35 0.36 03.25% 0.32 0.33 03.25% 0.20 0.21 03.25% 0.16 0.17 03.25% 0.08 0.08 03.25% 0.11 0.11 03.25% 0.11 0.11 03.25% 0.11 0.11 03.25% 0.07 0.07 03.25% 0.01 0.01 03.25% 0.01 0.01 03.25% 0.01 0.01	0.08	-
		Back side	10	10	2457	15	14.86	1.010	103.25%	0.11	0.11	109
	Hotspot	Top side	10	10	2457	15	14.86	1.010	103.25%	0.07	0.07	-
	потерог	Bottom side	10	10	2457	15	14.86	1.010	103.25%	0.01	0.01	-
		Right side	10	10	Power Tolera 2457 2457 2457 2457 2457 2457 2457 2457 2457 2457 2457 2457 2457 2457	15	14.86	1.010	103.25%	0.01	0.01	-
		Left side	10	10	2457	15	14.86	1.010	103.25%	0.05	0.05	-

Bluetooth (GFSK)

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling			Plot page
						Tolerance (dBm)	(ubiii)		· ·	Measured	Reported	
		RE Cheek	-	39	2441	12.6	10.60	1.302	158.49%	0.11	0.23	110
	Head	RE Tilt	-	39	2441	12.6	10.60	1.302	158.49%	0.11	0.23	-
Main	neau	LE Cheek	-	39	2441	12.6	10.60		0.05	0.10	-	
IVIAIII		LE Tilt	-	39	2441	12.6	10.60	1.302	158.49%	0.07	0.14	-
	Body-	Front side	10	39	2441	12.6	10.60	1.302	g scaling Measured 158.49% 0.11 158.49% 0.05	0.04	-	
	worn	Back side	10	39	2441	12.6	10.60	1.302	158.49%	0.03	0.06	111

WLAN 802.11ac(80M) 5.2G

Antenna	Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged S (W/		Plot page
						Tolerance (dBm)	(dBm)	3	3	Measured	Reported	
		RE Cheek	-	42	5210	12	11.87	1.079	103.15%	0.20	0.22	-
	Head	RE Tilt	-	42	5210	12	11.87	1.079	103.15%	0.32	0.36	112
Main	neau	LE Cheek	-	42	5210	12	11.87	1.079	103.15%	0.09	0.10	-
IVIAIII		LE Tilt	-	42	5210	12	11.87	1.079	103.15%	0.15	0.17	-
	Body-	Front side	10	42	5210	12	11.87	1.079	103.15%	0.04	0.04	-
	worn	Back side	10	42	5210	12	11.87	1.079	103.15%	0.05	0.06	113

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WLAN 802.11ac(80M) 5.3G

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged S (W/		Plot page
						Tolerance (dBm)	(dBm)	ŭ	J	Measured	Reported	
		RE Cheek	-	58	5290	12	11.65	1.079	108.51%	0.16	0.19	-
	Head	RE Tilt	-	58	5290	12	11.65	1.079	108.51%	0.23	0.27	114
Main	neau	LE Cheek	-	58	5290	12	11.65	1.079	108.51%	0.08	0.09	-
IVIAIII		LE Tilt	-	58	5290	12	11.65	1.079	108.51%	0.13	0.15	-
	Body-	Front side	10	58	5290	12	11.65	1.079	108.51%	0.01	0.01	-
	worn	Back side	10	58	5290	12	11.65	1.079	108.51%	0.05	0.06	115

WLAN 802.11ac(80M) 5.6G

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged S (W/		Plot page
						Tolerance (dbm)	(dBm)	ŭ	J	Measured	Reported	
		RE Cheek	-	106	5530	12	11.87	1.079	103.15%	0.23	0.26	-
	Head	RE Tilt	-	106	5530	12	11.87	1.079	103.15%	0.34	0.38	116
Main	Head	LE Cheek	-	106	5530	12	11.87	1.079	103.15%	0.18	0.20	-
IVIAIII		LE Tilt	-	106	5530	12	11.87	1.079	103.15%	0.23	0.26	-
	Body-	Front side	10	106	5530	12	11.87	1.079	103.15%	0.05	0.06	-
	worn	Back side	10	106	5530	12	11.87	1.079	103.15%	0.06	0.07	117

WLAN 802.11ac(80M) 5.8G

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		_	Plot page
						Tolerance (dBm)	(dBm)	3	3	Measured	Reported	
		RE Cheek	-	155	5775	12	11.57	1.079	110.53%	0.21	0.25	-
	Head	RE Tilt	-	155	5775	12	11.57	1.079	110.53%	0.29	0.35	118
	neau	LE Cheek	-	155	5775	12	11.57	1.079	110.53%	0.17	0.20	-
		LE Tilt	-	155	5775	12	11.57	1.079	110.53%	0.18	0.21	-
	Body-	Front side	10	155	5775	12	11.57	1.079	110.53%	0.04	0.05	-
Main	worn	Back side	10	155	5775	12	11.57	1.079	110.53%	0.03	0.04	-
IVIAIII		Front side	10	155	5775	12	11.57	1.079	110.53%	0.04	0.05	-
		Back side	10	155	5775	12	11.57	1.079	110.53%	0.03	0.04	-
	Hotspot	Top side	10	155	5775	12	11.57	1.079	110.53%	0.08	0.10	119
	потерот	Bottom side	10	155	5775	12	11.57	1.079	110.53%	Measured Reported 0.21 0.25 0.29 0.35 0.17 0.20 0.18 0.21 0.04 0.05 0.03 0.04 0.04 0.05 0.03 0.04 0.03 0.04 0.08 0.10 0.02 0.02 0.02 0.02	-	
		Right side	10	155	5775	12	11.57	1.079	110.53%	0.02	0.02	-
		Left side	10	155	5775	12	11.57	1.079	110.53%	0.03	0.04	-

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Note:

Scaling = $\frac{\text{reported SAR}}{\text{measured SAR}} = \frac{P2(mW)}{P1(mW)} = 10^{\left(\frac{P2-P1}{10}\right)(dBm)}$

Reported SAR = measured SAR * (scaling)

Where P2 is maximum specified power, P1 is measured conducted power

2.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Head	Body-Worn	Hotspot
GSM + WLAN 2.4/5.8GHz	Yes	Yes	No
GPRS + WLAN 2.4/5.8GHz	No	No	Yes
UMTS + WLAN 2.4/5.8GHz	Yes	Yes	Yes
LTE + WLAN 2.4/5.8GHz	Yes	Yes	Yes
GSM + WLAN 5.2/5.3/5.6GHz	Yes	Yes	No
UMTS + WLAN 5.2/5.3/5.6GHz	Yes	Yes	No
LTE + WLAN 5.2/5.3/5.6GHz	Yes	Yes	No
GSM + BT	Yes	Yes	No
UMTS + BT	Yes	Yes	No
LTE + BT	Yes	Yes	No
GSM + WLAN 5GHz + BT	Yes	Yes	No
UMTS + WLAN 5GHz + BT	Yes	Yes	No
LTE + WLAN 5GHz + BT	Yes	Yes	No

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^{1.} The device does not support DTM function. Body-worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.

^{2.} Based on KDB447498D01 note 36, when SAR test exclusion is allowed by other published RF exposure KDB procedures, such as the 2.5 cm hotspot mode SAR test exclusion for an edge or surface, then estimated SAR is not required to determine simultaneous SAR test exclusion.

^{3:} Based on KDB 648474 D04v01r03 note 6, simultaneous transmission SAR for 10-g extremity SAR requires consideration only when standalone 10-g SAR is required.



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3.1 Estimated SAR calculation

According to KDB447498 D01v06 – 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 =
$$\frac{\text{Max. tune up power (mW)}}{\text{Min. test separation distance(mm)}} \times \frac{\sqrt{\text{f(GHz)}}}{7.5}$$

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.

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.

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Simultaneous Transmission Combination

Head

		4	NT1_reported	SAR WWAN	and WLAN an	d Blurtooth, Σ	SAR evaluation	n		
				reported S	SAR / W/kg			ΣS	AR	
Fraguenau			1	2	3	4		<2.0	W/kg	
Frequency band	F	Position	Max. WWAN	Max. 2.4GHz	Max. 5GHz	вт	1+2 sum	1+3 sum	W/kg 1+4 sum 0.54 0.38 0.37 0.28 0.35 0.27 0.15 0.18 0.53 0.28 0.18 0.20 0.60 0.41 0.40 0.25 0.40 0.33 0.20 0.24 0.40 0.32 0.28 0.29 0.21 0.15 0.16 0.30 0.27 0.15 0.16 0.35 0.27 0.14 0.16 0.36 0.25 0.14	1+3+4 sum
		Right cheek	0.31	0.36	0.26	0.23	0.67	0.57	0.54	0.80
0014.050		Right tilt	0.15	0.33	0.38	0.23	0.48	0.53	0.38	0.76
GSM 850	Head	Left cheek	0.27	0.21	0.20	0.10	0.48	0.47	0.37	0.57
		Left tilt	0.14	0.17	0.26	0.14	0.31	0.40	0.28	0.54
		Right cheek	0.12	0.36	0.26	0.23	0.48	0.38	0.35	0.61
0014 4000		Right tilt	0.04	0.33	0.38	0.23	0.37	0.42	0.27	0.65
GSM 1900	Head	Left cheek	0.05	0.21	0.20	0.10	0.26	0.25	0.15	0.35
		Left tilt	0.04	0.17	0.26	0.14	0.21	0.30	0.18	0.44
		Right cheek	0.30	0.36	0.26	0.23	0.66	0.56	0.53	0.79
WCDMA		Right tilt	0.05	0.33	0.38	0.23	0.38	0.43	0.28	0.66
Band II	Head	Left cheek	0.08	0.21	0.20	0.10	0.29	0.28	0.18	0.38
WCDMA Hea		Left tilt	0.06	0.17	0.26	0.14	0.23	0.32	0.20	0.46
		Right cheek	0.37	0.36	0.26	0.23	0.73	0.63	0.60	0.86
WCDMA	Head	Right tilt	0.18	0.33	0.38	0.23	0.51	0.56	0.41	0.79
Band V	пеац	Left cheek	0.30	0.21	0.20	0.10	0.51	0.50	0.40	0.60
		Left tilt	0.11	0.17	0.26	0.14	0.28	0.37	W/kg 1+4 sum 0.54 0.38 0.37 0.28 0.35 0.27 0.15 0.18 0.53 0.28 0.18 0.20 0.60 0.41 0.40 0.25 0.40 0.33 0.20 0.24 0.48 0.32 0.28 0.18 0.32 0.28 0.19 0.27 0.10 0.30 0.21 0.40 0.31 0.22 0.40 0.27 0.15 0.35 0.27 0.16 0.35 0.27 0.16 0.36 0.25	0.51
		Right cheek	0.17	0.36	0.26	0.23	0.53	0.43	0.40	0.66
LTE FDD	Head	Right tilt	0.10	0.33	0.38	0.23	0.43	0.48	0.33	0.71
Band 2	пеац	Left cheek	0.10	0.21	0.20	0.10	0.31	0.30	0.20	0.40
		Left tilt	0.10	0.17	0.26	0.14	0.27	0.36	0.24	0.50
		Right cheek	0.25	0.36	0.26	0.23	0.61	0.51	0.48	0.74
LTE FDD	Head	Right tilt	0.09	0.33	0.38	0.23	0.42	0.47	0.32	0.70
Band 5	пеац	Left cheek	0.18	0.21	0.20	0.10	0.39	0.38	0.28	0.48
		Left tilt	0.08	0.17	0.26	0.14	0.25	0.34	0.22	0.48
		Right cheek	0.17	0.36	0.26	0.23	0.53	0.43	0.40	0.66
LTE FDD	Head	Right tilt	0.04	0.33	0.38	0.23	0.37	0.42	0.27	0.65
Band 7	Head	Left cheek	0.05	0.21	0.20	0.10	0.26	0.25	0.15	0.35
		Left tilt	0.02	0.17	0.26	0.14	0.19	0.28	0.16	0.42
		Right cheek	0.12	0.36	0.26	0.23	0.48	0.38	0.35	0.61
LTE TDD	Head	Right tilt	0.04	0.33	0.38	0.23	0.37	0.42	0.27	0.65
Band 38	rieau	Left cheek	0.04	0.21	0.20	0.10	0.25	0.24	0.14	0.34
		Left tilt	0.02	0.17	0.26	0.14	0.19	0.28	0.16	0.42
		Right cheek	0.13	0.36	0.26	0.23	0.49	0.39	0.36	0.62
LTE TDD	Head	Right tilt	0.02	0.33	0.38	0.23	0.35	0.40	0.25	0.63
Band 41	Head	Left cheek	0.04	0.21	0.20	0.10	0.25	0.24	0.14	0.34
		Left tilt	0.01	0.17	0.26	0.14	0.18	0.27	0.15	0.41

		,	NT3_reported	SAR WWAN	and WLAN an	d Blurtooth, Σ	SAR evaluation	า		
				reported S	SAR / W/kg			ΣS	AR	
E			1	2	3	4		<2.0	W/kg	
Frequency band	Position		Max. WWAN	Max. 2.4GHz	Max. 5GHz	ВТ	1+2 sum	1+3 sum	1+4 sum	1+3+4 sum
		Right cheek	0.18	0.36	0.26	0.23	0.54	0.44	0.41	0.67
LTE TDD	Head	Right tilt	0.23	0.33	0.38	0.23	0.56	0.61	0.46	0.84
Band41	пеац	Left cheek	0.15	0.21	0.20	0.10	0.36	0.35	0.25	0.45
		Left tilt	0.19	0.17	0.26	0.14	0.36	0.45	0.33	0.59

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Body-worn

y-woiii										
		į.	NT1_reported	I SAR WWAN	and WLAN and	d Blurtooth, Σ	SAR evaluation	1		
				reported S	AR / W/kg			ΣS	AR	
Frequency			1	2	3	4		<2.0	W/kg	
band	F	Position	Max. WWAN	Max. 2.4GHz	Max. 5GHz	ВТ	1+2 sum	1+3 sum	1+4 sum	1+3+4 sum
GSM 850	Body-	Front side	0.32	0.08	0.06	0.04	0.40	0.38	0.36	0.42
GSIVI 650	worn	Back side	0.28	0.11	0.07	0.06	0.39	0.35	0.34	0.41
GSM 1900	Body-	Front side	0.45	0.08	0.06	0.04	0.53	0.51	0.49	0.55
GSW 1900	worn	Back side	0.19	0.11	0.07	0.06	0.30	0.26	0.25	0.32
WCDMA Band II	Body-	Front side	0.65	0.08	0.06	0.04	0.73	0.71	0.69	0.75
WCDIVIA BANG II	worn	Back side	0.39	0.11	0.07	0.06	0.50	0.46	0.45	0.52
WCDMA	Body-	Front side	0.33	0.08	0.06	0.04	0.41	0.39	0.37	0.43
Band V	worn	Back side	0.32	0.11	0.07	0.06	0.43	0.39	0.38	0.45
LTE FDD Band 2	Body-	Front side	0.61	0.08	0.06	0.04	0.69	0.67	0.65	0.71
LIE FUU Band 2	worn	Back side	0.37	0.11	0.07	0.06	0.48	0.44	0.43	0.50
LTE FDD	Body-	Front side	0.22	0.08	0.06	0.04	0.30	0.28	0.26	0.32
Band 5	worn	Back side	0.24	0.11	0.07	0.06	0.35	0.31	0.30	0.37
LTE FDD	Body-	Front side	0.32	0.08	0.06	0.04	0.40	0.38	0.36	0.42
Band 7	worn	Back side	0.24	0.11	0.07	0.06	0.35	0.31	0.30	0.37
LTE TDD	Body-	Front side	0.25	0.08	0.06	0.04	0.33	0.31	0.29	0.35
Band 38	worn	Back side	0.19	0.11	0.07	0.06	0.30	0.26	0.25	0.32
LTE TDD	Body-	Front side	0.28	0.08	0.06	0.04	0.36	0.34	0.32	0.38
Band 41	worn	Back side	0.17	0.11	0.07	0.06	0.28	0.24	0.23	0.30

ANT3_reported SAR WWAN and WLAN and Blurtooth, ΣSAR evaluation										
	Position		reported SAR / W/kg				ΣSAR			
Fraguenau			1	2	3	4	<2.0W/kg			
Frequency band			Max. WWAN	Max. 2.4GHz	Max. 5GHz	ВТ	1+2 sum	1+3 sum	1+4 sum	1+3+4 sum
LTE TDD Band 41	Body- wom	Front side	0.05	0.08	0.06	0.04	0.13	0.11	0.09	0.15
		Back side	0.04	0.11	0.07	0.06	0.15	0.11	0.10	0.17

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Hotspot

	ANTI_r	eported SAR W	WAN and WL	AN and Blurto	ooth, ΣSAR eva	aluation	
			rej	oorted SAR / W	ΣSAR		
Frequency			1	2	3	<2.0W/kg	
band	Position		Max. WWAN	Max. 2.4GHz	Max. 5GHz	1+2 sum	1+3 sum
		Front side	0.26	0.08	0.05	0.34	0.31
		Back side	0.22	0.11	0.04	0.33	0.26
		Top side	0.01	0.07	0.10	0.08	0.11
GSM 850	Hotspot	Bottom side	0.23	0.01	0.02	0.24	0.25
		Right side	0.66	0.01	0.02	0.67	0.68
		Left side	0.36	0.05	0.04	0.41	0.40
		Front side	0.51	0.08	0.05	0.59	0.56
		Back side	0.28	0.11	0.04	0.39	0.32
CCM 4000	11-44	Top side	0.02	0.07	0.10	0.09	0.12
GSM 1900	Hotspot	Bottom side	0.81	0.01	0.02	0.82	0.83
		Right side	0.04	0.01	0.02	0.05	0.06
		Left side	0.16	0.05	0.04	0.21	0.20
		Front side	0.32	0.08	0.05	0.40	0.37
		Back side	0.22	0.11	0.04	0.33	0.26
WCDMA	Hotspot	Top side	0.01	0.07	0.10	0.08	0.11
Band II	Hotspot	Bottom side	0.66	0.01	0.02	0.67	0.68
		Right side	0.05	0.01	0.02	0.06	0.07
		Left side	0.13	0.05	0.04	0.18	0.17
	Hotspot	Front side	0.33	0.08	0.05	0.41	0.38
		Back side	0.32	0.11	0.04	0.43	0.36
WCDMA		Top side	0.01	0.07	0.10	0.08	0.11
Band V		Bottom side	0.26	0.01	0.02	0.27	0.28
		Right side	0.43	0.01	0.02	0.44	0.45
		Left side	0.25	0.05	0.04	0.30	0.29
		Front side	0.23	0.08	0.05	0.31	0.28
		Back side	0.16	0.11	0.04	0.27	0.20
LTE FDD	Hotspot	Top side	0.02	0.07	0.10	0.69	0.72
Band 2		Bottom side	0.62	0.01	0.02	0.05	0.06
		Right side	0.04	0.01	0.02	0.12	0.13
		Left side	0.11	0.05	0.04	0.27	0.26
		Front side	0.22	0.08	0.05	0.32	0.29
	Hotspot	Back side	0.24	0.11	0.04	0.12	0.05
LTE FDD		Top side	0.01	0.07	0.10	0.19	0.22
Band 5		Bottom side	0.12	0.01	0.02	0.41	0.42
		Right side	0.40	0.01	0.02	0.19	0.20
		Left side	0.18	0.05	0.04	0.37	0.36
		Front side	0.32	0.08	0.05	0.32	0.29
		Back side	0.24	0.11	0.04	0.12	0.28
LTE FDD	1	Top side	0.01	0.07	0.10	0.08	0.11
Band 7	Hotspot	Bottom side	0.62	0.01	0.02	0.63	0.64
		Right side	0.24	0.01	0.02	0.25	0.26
		Left side	0.01	0.05	0.04	0.06	0.05
LTE TDD Band 38	Hotspot	Front side	0.25	0.08	0.05	0.33	0.30
		Back side	0.19	0.11	0.04	0.30	0.23
		Top side	0.01	0.07	0.10	0.08	0.11
		Bottom side	0.48	0.01	0.02	0.49	0.50
		Right side	0.26	0.01	0.02	0.27	0.28
		Left side	0.01	0.05	0.04	0.06	0.05
	Hotspot	Front side	0.28	0.08	0.05	0.36	0.33
		Back side	0.17	0.11	0.04	0.28	0.21
LTE TDD Band 41		Top side	0.01	0.07	0.10	0.08	0.11
		Bottom side	0.53	0.01	0.02	0.54	0.55
		Right side	0.29	0.01	0.02	0.30	0.31
						00	٥.٠٠.

ANT3_reported SAR WWAN and WLAN and Blurtooth, ΣSAR evaluation								
	Position		rej	oorted SAR / W	ΣSAR			
Frequency			1	2	3	<2.0W/kg		
band			Max. WWAN	Max. 2.4GHz	Max. 5GHz	1+2 sum	1+3 sum	
	Hotspot	Front side	0.05	0.08	0.05	0.13	0.10	
		Back side	0.04	0.11	0.04	0.15	0.08	
LTE TDD		Top side	0.11	0.07	0.10	0.18	0.21	
Band 41		Bottom side	0.00	0.01	0.02	0.01	0.02	
		Right side	0.00	0.01	0.02	0.01	0.02	
		Left side	0.01	0.05	0.04	0.06	0.05	

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4. Instruments List

instruments List									
Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration				
SPEAG	Dosimetric E- Field Probe	EX3DV4	3938	Feb.27,2020	Feb.26,2021				
		D835V2	4d063	Aug.13,2020	Aug.12,2021				
		D1900V2	5d173	Apr.22,2020	Apr.21,2021				
SPEAG	System Validation Dipole	D2450V2	727	Apr.22,2020	Apr.21,2021				
		D2600V2	1005	Jan.29,2020	Jan.28,2021				
		D5GHzV2	1023	Jan.28,2020	Jan.27,2021				
SPEAG	Data acquisition Electronics	DAE4	547	Mar.17,2020	Mar.16,2021				
SPEAG	Software	DASY 52 V52.10.4	N/A	Calibration not required	Calibration not required				
SPEAG	Phantom	SAM	N/A	Calibration not required	Calibration not required				
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	•	•				
Agilent	Dual-directional	772D	MY46151242	Aug.17,2020	Aug.16,2021				
Agilent	coupler	778D	MY48220468	Aug.17,2020	Aug.16,2021				
Agilent	Signal Generator	N5181A	MY50141235	May.04,2020	May.03,2021				
Agilent	Power Meter	E4417A	MY51410006	Mar.09,2020	Mar.08,2021				
Agilent	Power Sensor	E9301H	MY51470001	Mar.09,2020	Mar.08,2021				
	1 Ower Sensor		MY51470002	Mar.09,2020	Mar.08,2021				
TECPEL	Digital thermometer	DTM-303A	TP130074	Apr.10,2020	Apr.09,2021				
Anritsu	Radio Communication Test	MT8820C	6201061014	Apr.28,2020	Apr.27,2021				

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5. Measurements

Date: 2021/1/12

Report No. : E5/2020/C0003

GSM 850_Head_Re Cheek_CH 190

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 837 MHz; $\sigma = 0.911$ S/m; $\varepsilon_r = 42.002$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.291 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.268 V/m; Power Drift = -0.04 dB

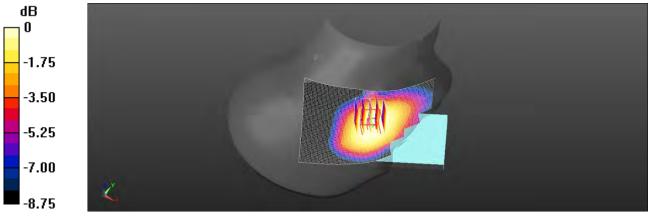
Peak SAR (extrapolated) = 0.297 W/kg

SAR(1 g) = 0.240 W/kg; SAR(10 g) = 0.186 W/kg

Smallest distance from peaks to all points 3 dB below = 12.7 mm

Ratio of SAR at M2 to SAR at M1 = 81.5%

Maximum value of SAR (measured) = 0.273 W/kg



0 dB = 0.273 W/kg = -5.64 dBW/kg

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Date: 2021/1/12

Report No.: E5/2020/C0003

GSM 850_Body-worn_Front side_CH 128_10mm

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: f = 824.2 MHz; $\sigma = 0.907$ S/m; $\epsilon_r = 42.054$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.289 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.40 V/m; Power Drift = 0.04 dB

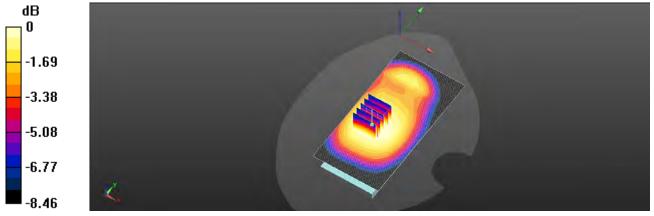
Peak SAR (extrapolated) = 0.317 W/kg

SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.188 W/kg

Smallest distance from peaks to all points 3 dB below = 12.3 mm

Ratio of SAR at M2 to SAR at M1 = 77.9%

Maximum value of SAR (measured) = 0.286 W/kg



0 dB = 0.286 W/kg = -5.43 dBW/kg

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Date: 2021/1/12

Report No. : E5/2020/C0003

GPRS 850_Hotspot_Right side_CH 190_10mm

Communication System: GPRS 850; Frequency: 836.6 MHz; Duty Cycle: 1:2

Medium parameters used: f = 837 MHz; $\sigma = 0.911$ S/m; $\varepsilon_r = 42.002$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

· Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.564 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.54 V/m; Power Drift = 0.06 dB

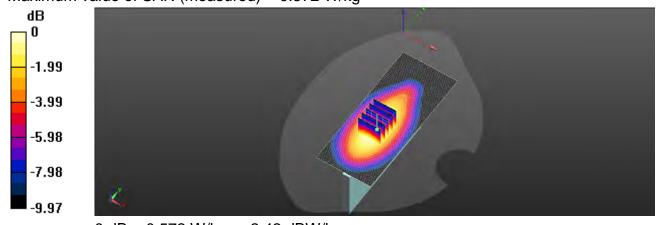
Peak SAR (extrapolated) = 0.669 W/kg

SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.312 W/kg

Smallest distance from peaks to all points 3 dB below = 11.8 mm

Ratio of SAR at M2 to SAR at M1 = 68.9%

Maximum value of SAR (measured) = 0.572 W/kg



0 dB = 0.572 W/kg = -2.42 dBW/kg

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Date: 2021/1/13

Report No. : E5/2020/C0003 GSM 1900 Head Re Cheek CH 810

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 1910 MHz; $\sigma = 1.386$ S/m; $\epsilon_r = 39.652$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.127 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.668 V/m; Power Drift = -0.05 dB

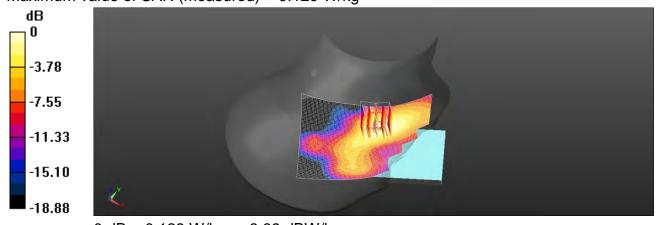
Peak SAR (extrapolated) = 0.155 W/kg

SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.060 W/kg

Smallest distance from peaks to all points 3 dB below = 11.6 mm

Ratio of SAR at M2 to SAR at M1 = 66.2%

Maximum value of SAR (measured) = 0.129 W/kg



0 dB = 0.129 W/kg = -8.89 dBW/kg

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Date: 2021/1/13

Report No.: E5/2020/C0003

GSM 1900_Body-worn_Front side_CH 810_10mm

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3 Medium parameters used: f = 1910 MHz; $\sigma = 1.386 \text{ S/m}$; $\varepsilon_r = 39.652$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.495 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.495 V/m; Power Drift = 0.03 dB

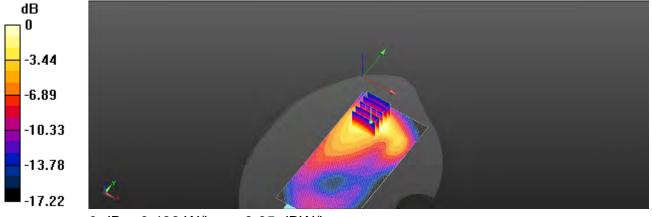
Peak SAR (extrapolated) = 0.632 W/kg

SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.211 W/kg

Smallest distance from peaks to all points 3 dB below = 11.1 mm

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 0.496 W/kg



0 dB = 0.496 W/kg = -3.05 dBW/kg

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Date: 2021/1/13

Report No.: E5/2020/C0003

GPRS 1900_Hotspot_Botton side_CH 810_10mm

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2 Medium parameters used: f = 1910 MHz; $\sigma = 1.386 \text{ S/m}$; $\varepsilon_r = 39.652$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.975 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.33 V/m; Power Drift = 0.04 dB

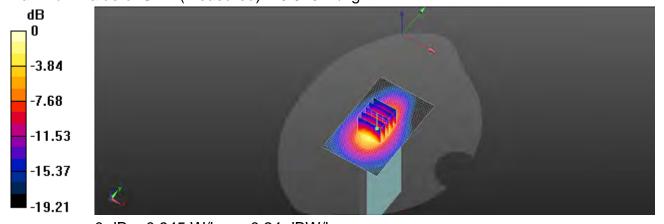
Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.660 W/kg; SAR(10 g) = 0.345 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 55.6%

Maximum value of SAR (measured) = 0.945 W/kg



0 dB = 0.945 W/kg = -0.24 dBW/kg

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WCDMA Band II_Head_Re Cheek_CH 9400

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; $\sigma = 1.383 \text{ S/m}$; $\varepsilon_r = 39.664$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.390 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.700 V/m; Power Drift = 0.03 dB

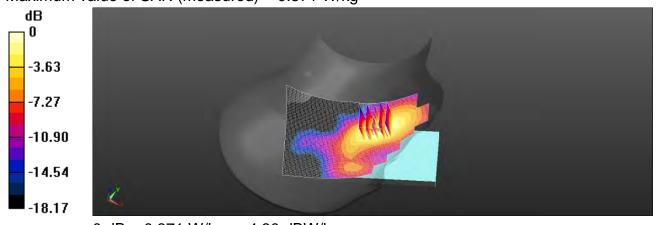
Peak SAR (extrapolated) = 0.447 W/kg

SAR(1 g) = 0.281 W/kg; SAR(10 g) = 0.166 W/kg

Smallest distance from peaks to all points 3 dB below = 11.4 mm

Ratio of SAR at M2 to SAR at M1 = 65.3%

Maximum value of SAR (measured) = 0.371 W/kg



0 dB = 0.371 W/kg = -4.30 dBW/kg

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WCDMA Band II_Body-worn_Front side_CH 9538_10mm

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1908 MHz; $\sigma = 1.385$ S/m; $\varepsilon_r = 39.653$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.823 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.890 V/m; Power Drift = 0.05 dB

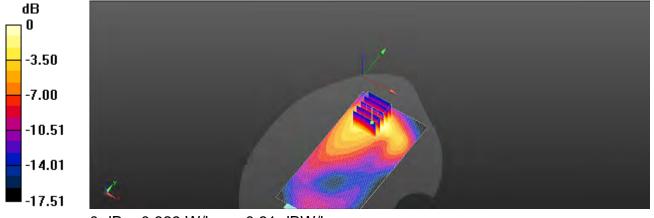
Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.618 W/kg; SAR(10 g) = 0.347 W/kg

Smallest distance from peaks to all points 3 dB below = 10.9 mm

Ratio of SAR at M2 to SAR at M1 = 58.8%

Maximum value of SAR (measured) = 0.829 W/kg



0 dB = 0.829 W/kg = -0.81 dBW/kg

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WCDMA Band II_Hotspot_Bottom side_CH 9538_10mm

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1908 MHz; $\sigma = 1.385$ S/m; $\varepsilon_r = 39.653$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.823 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.89 V/m; Power Drift = 0.01 dB

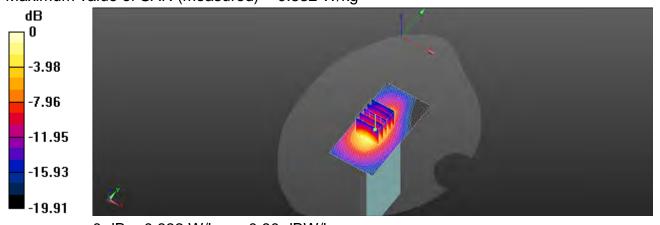
Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.294 W/kg

Smallest distance from peaks to all points 3 dB below = 10.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.1%

Maximum value of SAR (measured) = 0.832 W/kg



0 dB = 0.832 W/kg = -0.80 dBW/kg

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WCDMA Band V_Head_Re Cheek_CH 4233

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: f = 847 MHz; $\sigma = 0.922$ S/m; $\varepsilon_r = 41.985$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.389 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.483 V/m; Power Drift = 0.03 dB

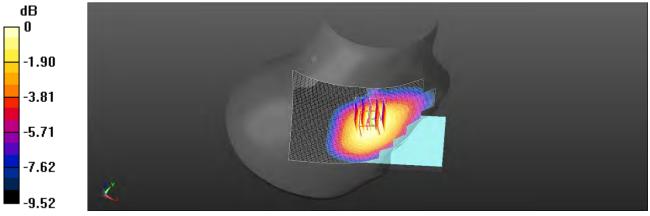
Peak SAR (extrapolated) = 0.420 W/kg

SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.255 W/kg

Smallest distance from peaks to all points 3 dB below = 12.6 mm

Ratio of SAR at M2 to SAR at M1 = 80.1%

Maximum value of SAR (measured) = 0.382 W/kg



0 dB = 0.382 W/kg = -4.18 dBW/kg

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WCDMA Band V_Hotspot_Right side_CH 4183_10mm

Communication System: WCDMA; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: f = 837 MHz; $\sigma = 0.911$ S/m; $\varepsilon_r = 42.002$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.482 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.91 V/m; Power Drift = 0.01 dB

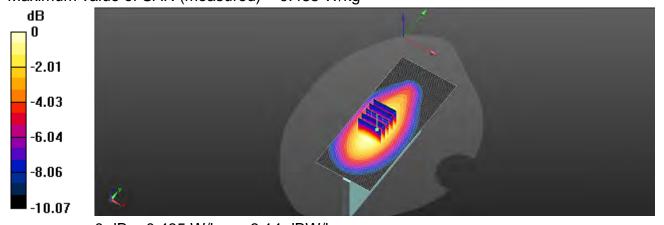
Peak SAR (extrapolated) = 0.565 W/kg

SAR(1 g) = 0.390 W/kg; SAR(10 g) = 0.264 W/kg

Smallest distance from peaks to all points 3 dB below = 11.7 mm

Ratio of SAR at M2 to SAR at M1 = 68.6%

Maximum value of SAR (measured) = 0.485 W/kg



0 dB = 0.485 W/kg = -3.14 dBW/kg

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LTE Band 2 (20MHz) Head Re Cheek CH 18900 QPSK 1-99

Communication System: LTE; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; $\sigma = 1.382 \text{ S/m}$; $\varepsilon_r = 39.66$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.206 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.915 V/m; Power Drift = 0.02 dB

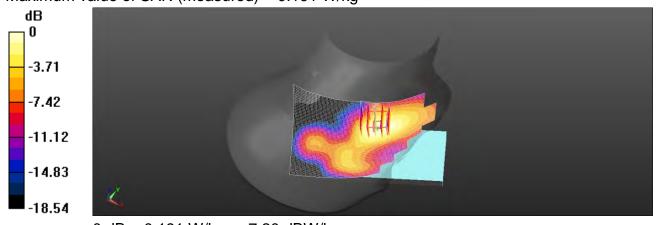
Peak SAR (extrapolated) = 0.229 W/kg

SAR(1 g) = 0.152 W/kg; SAR(10 g) = 0.094 W/kg

Smallest distance from peaks to all points 3 dB below = 11.9 mm

Ratio of SAR at M2 to SAR at M1 = 68.9%

Maximum value of SAR (measured) = 0.191 W/kg



0 dB = 0.191 W/kg = -7.20 dBW/kg

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LTE Band 2 (20MHz) Body-worn Front side CH 19100 QPSK 50-25 10mm

Communication System: LTE; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.384 \text{ S/m}$; $\epsilon_r = 39.654$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.757 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.766 V/m; Power Drift = 0.01 dB

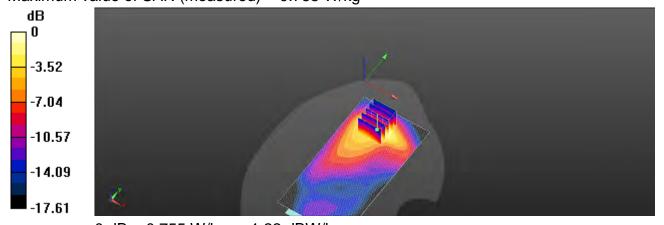
Peak SAR (extrapolated) = 0.944 W/kg

SAR(1 g) = 0.539 W/kg; SAR(10 g) = 0.296 W/kg

Smallest distance from peaks to all points 3 dB below = 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.9%

Maximum value of SAR (measured) = 0.755 W/kg



0 dB = 0.755 W/kg = -1.22 dBW/kg

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LTE Band 2 (20MHz)_Hotspot_Bottom side_CH 19100_QPSK_1-0_10mm

Communication System: LTE; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.384 \text{ S/m}$; $\epsilon_r = 39.654$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.756 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.80 V/m; Power Drift = 0.01 dB

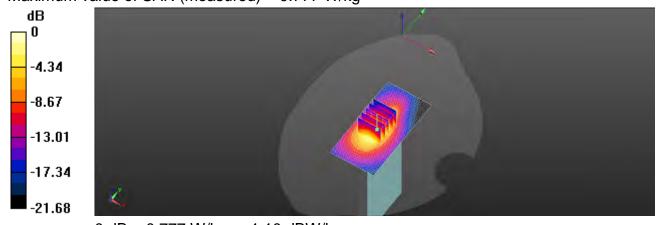
Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.546 W/kg; SAR(10 g) = 0.283 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 55.5%

Maximum value of SAR (measured) = 0.777 W/kg



0 dB = 0.777 W/kg = -1.10 dBW/kg

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LTE Band 5 (10MHz) Head Re Cheek CH 20600 QPSK 1-49

Communication System: LTE; Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used: f = 844 MHz; $\sigma = 0.918$ S/m; $\varepsilon_r = 41.989$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.238 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.650 V/m; Power Drift = 0.06 dB

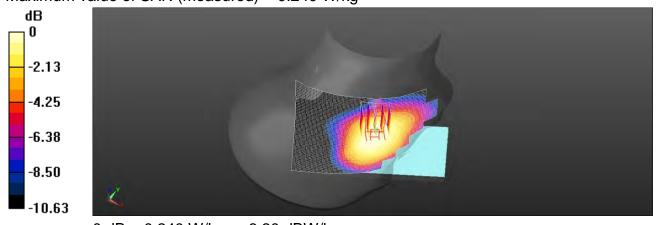
Peak SAR (extrapolated) = 0.264 W/kg

SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.156 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 78.8%

Maximum value of SAR (measured) = 0.240 W/kg



0 dB = 0.240 W/kg = -6.20 dBW/kg

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Date: 2021/1/12

Report No.: E5/2020/C0003

LTE Band 5 (10MHz)_Hotspot_Right side_CH 20525_QPSK_1-0_10mm

Communication System: LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: f = 836.5 MHz; $\sigma = 0.911 \text{ S/m}$; $\epsilon_r = 42.014$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.405 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.48 V/m; Power Drift = -0.04 dB

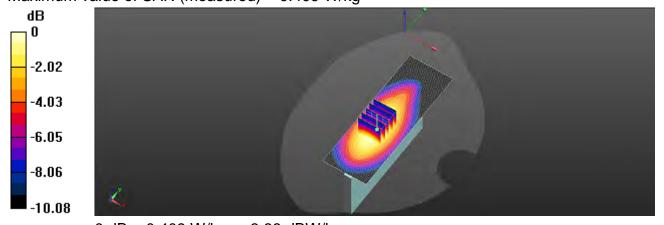
Peak SAR (extrapolated) = 0.478 W/kg

SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.221 W/kg

Smallest distance from peaks to all points 3 dB below = 11.6 mm

Ratio of SAR at M2 to SAR at M1 = 68.3%

Maximum value of SAR (measured) = 0.409 W/kg



0 dB = 0.409 W/kg = -3.88 dBW/kg

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Date: 2021/1/9

Report No.: E5/2020/C0003

LTE Band 7 (20MHz)_Head_Re Cheek_CH 21350_QPSK_1-99

Communication System: LTE; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2560 MHz; $\sigma = 1.925 \text{ S/m}$; $\epsilon_r = 39.244$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x151x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.196 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.2480 V/m; Power Drift = 0.02 dB

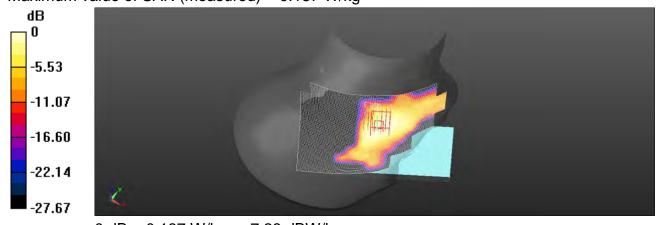
Peak SAR (extrapolated) = 0.251 W/kg

SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.072 W/kg

Smallest distance from peaks to all points 3 dB below = 10.6 mm

Ratio of SAR at M2 to SAR at M1 = 56.5%

Maximum value of SAR (measured) = 0.187 W/kg



0 dB = 0.187 W/kg = -7.28 dBW/kg

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Date: 2021/1/9

Report No.: E5/2020/C0003

LTE Band 7 (20MHz) Hotspot_Bottom side_CH 21350_QPSK_1-99_10mm

Communication System: LTE; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2560 MHz; $\sigma = 1.925 \text{ S/m}$; $\varepsilon_r = 39.244$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.901 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.873 V/m; Power Drift = 0.04 dB

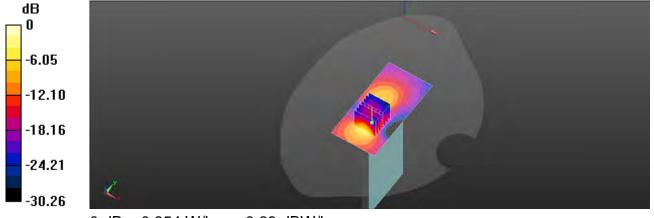
Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.188 W/kg

Smallest distance from peaks to all points 3 dB below = 10.5 mm

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 0.854 W/kg



0 dB = 0.854 W/kg = -0.68 dBW/kg

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Date: 2021/1/9

Report No.: E5/2020/C0003

LTE Band 38 (20MHz)_Head_Re Cheek_CH 38150_QPSK_1-0

Communication System: LTE; Frequency: 2610 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2610 MHz; $\sigma = 1.981 \text{ S/m}$; $\epsilon_r = 39.199$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x151x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.141 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.099 V/m; Power Drift = 0.04 dB

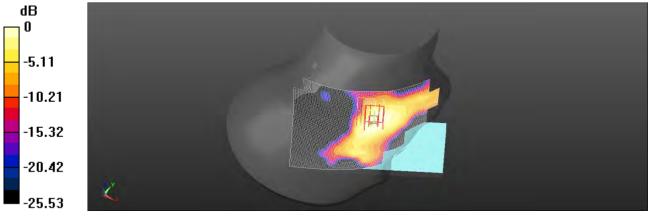
Peak SAR (extrapolated) = 0.177 W/kg

SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.052 W/kg

Smallest distance from peaks to all points 3 dB below = 10.5 mm

Ratio of SAR at M2 to SAR at M1 = 55.1%

Maximum value of SAR (measured) = 0.136 W/kg



0 dB = 0.136 W/kg = -8.67 dBW/kg

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Date: 2021/1/10

Report No.: E5/2020/C0003

LTE Band 38 (20MHz)_Hotspot_Bottom side_CH 38150_QPSK_1-0_10mm

Communication System: LTE; Frequency: 2610 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2610 MHz; $\sigma = 1.981 \text{ S/m}$; $\epsilon_r = 39.184$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.712 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.760 V/m; Power Drift = -0.02 dB

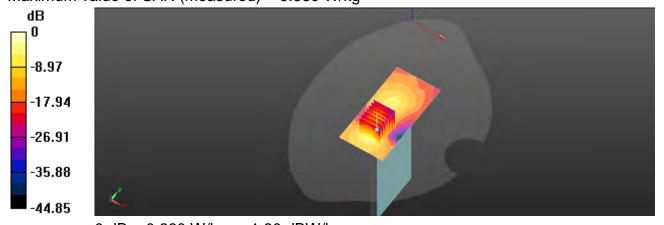
Peak SAR (extrapolated) = 0.961 W/kg

SAR(1 g) = 0.399 W/kg; SAR(10 g) = 0.146 W/kg

Smallest distance from peaks to all points 3 dB below = 11.6 mm

Ratio of SAR at M2 to SAR at M1 = 65.7%

Maximum value of SAR (measured) = 0.660 W/kg



0 dB = 0.660 W/kg = -1.80 dBW/kg

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Date: 2021/1/10

Report No.: E5/2020/C0003

LTE Band 41 (20MHz) Head Re Cheek CH 41055 QPSK 1-0

Communication System: LTE; Frequency: 2636.5 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2636.5 MHz; $\sigma = 2.01 \text{ S/m}$; $\varepsilon_r = 39.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x151x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.167 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.826 V/m; Power Drift = -0.03 dB

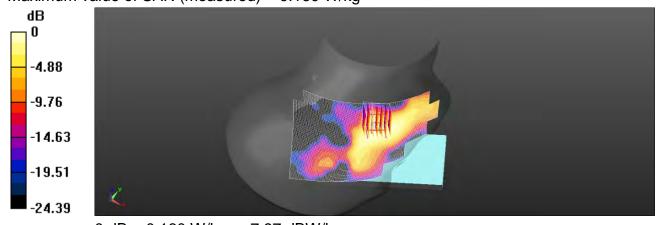
Peak SAR (extrapolated) = 0.211 W/kg

SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.060 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.9%

Maximum value of SAR (measured) = 0.160 W/kg



0 dB = 0.160 W/kg = -7.97 dBW/kg

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Date: 2021/1/10

Report No.: E5/2020/C0003

LTE Band 41 (20MHz)_Hotspot_Bottom side_CH 41055_QPSK_1-0_10mm

Communication System: LTE; Frequency: 2636.5 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2636.5 MHz; $\sigma = 2.01 \text{ S/m}$; $\varepsilon_r = 39.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.782 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.654 V/m; Power Drift = 0.03 dB

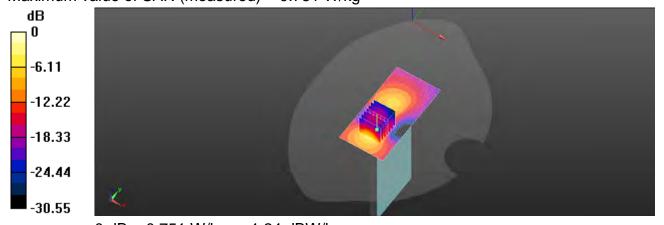
Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.451 W/kg; SAR(10 g) = 0.166 W/kg

Smallest distance from peaks to all points 3 dB below = 10.6 mm

Ratio of SAR at M2 to SAR at M1 = 56.1%

Maximum value of SAR (measured) = 0.751 W/kg



0 dB = 0.751 W/kg = -1.24 dBW/kg

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Date: 2021/1/11

Report No.: E5/2020/C0003

LTE Band 41 (20MHz)_Head_Re Tilt_CH 40620_QPSK_1-99_Ant 3

Communication System: LTE; Frequency: 2593 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2593 MHz; $\sigma = 1.963$ S/m; $\varepsilon_r = 39.229$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x151x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.366 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.206 V/m; Power Drift = 0.02 dB

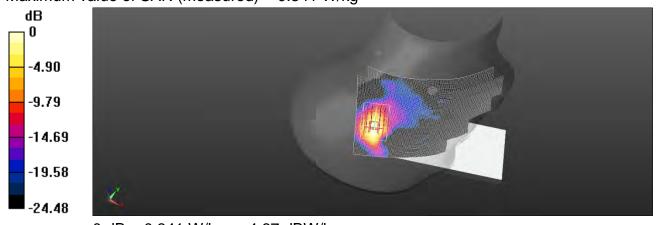
Peak SAR (extrapolated) = 0.492 W/kg

SAR(1 g) = 0.202 W/kg; SAR(10 g) = 0.080 W/kg

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 0.341 W/kg



0 dB = 0.341 W/kg = -4.67 dBW/kg

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Date: 2021/1/11

Report No.: E5/2020/C0003

LTE Band 41 (20MHz) Hotspot_Top side_CH 40620_QPSK_1-99_10mm_Ant 3

Communication System: LTE; Frequency: 2593 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2593 MHz; $\sigma = 1.963$ S/m; $\varepsilon_r = 39.229$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.154 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.717 V/m; Power Drift = -0.03 dB

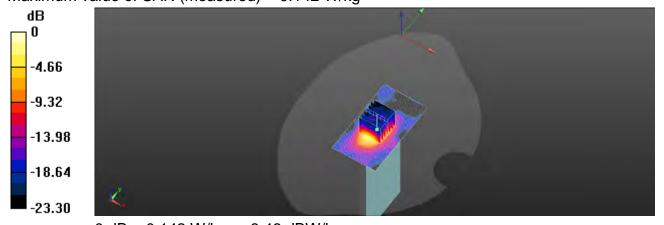
Peak SAR (extrapolated) = 0.200 W/kg

SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.039 W/kg

Smallest distance from peaks to all points 3 dB below = 11.1 mm

Ratio of SAR at M2 to SAR at M1 = 59.5%

Maximum value of SAR (measured) = 0.142 W/kg



0 dB = 0.142 W/kg = -8.46 dBW/kg

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WLAN 802.11b_Head_Re Cheek_CH 10

Communication System: WLAN; Frequency: 2457 MHz; Duty Cycle: 1:0.99

Medium parameters used: f = 2457 MHz; $\sigma = 1.812$ S/m; $\varepsilon_r = 39.375$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.59, 7.59, 7.59); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x151x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.520 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.813 V/m; Power Drift = -0.05 dB

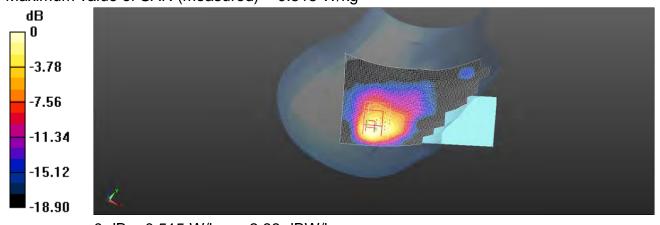
Peak SAR (extrapolated) = 0.670 W/kg

SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.178 W/kg

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%

Maximum value of SAR (measured) = 0.515 W/kg



0 dB = 0.515 W/kg = -2.88 dBW/kg

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WLAN 802.11b_Hotspot_Back side_CH 10_10mm

Communication System: WLAN; Frequency: 2457 MHz; Duty Cycle: 1:0.99

Medium parameters used: f = 2457 MHz; $\sigma = 1.812$ S/m; $\varepsilon_r = 39.375$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.59, 7.59, 7.59); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x151x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.146 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.491 V/m; Power Drift = 0.03 dB

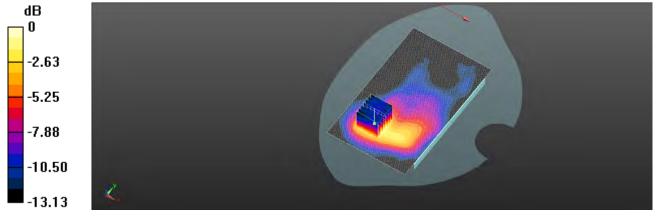
Peak SAR (extrapolated) = 0.186 W/kg

SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.060 W/kg

Smallest distance from peaks to all points 3 dB below = 10.6 mm

Ratio of SAR at M2 to SAR at M1 = 58.5%

Maximum value of SAR (measured) = 0.149 W/kg



0 dB = 0.149 W/kg = -8.27 dBW/kg

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Bluetooth(GFSK)_Head_Re Cheek_CH 39

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:0.768 Medium parameters used: f = 2441 MHz; $\sigma = 1.797$ S/m; $\epsilon_r = 39.42$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.59, 7.59, 7.59); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x151x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.192 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.459 V/m; Power Drift = 0.04 dB

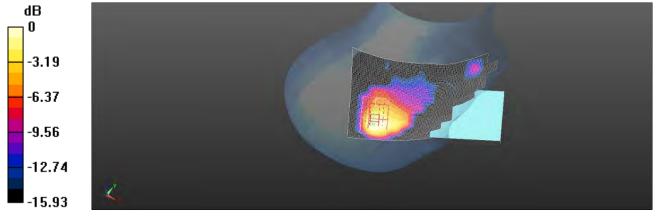
Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.057 W/kg

Smallest distance from peaks to all points 3 dB below = 10.5 mm

Ratio of SAR at M2 to SAR at M1 = 54.7%

Maximum value of SAR (measured) = 0.150 W/kg



0 dB = 0.150 W/kg = -8.23 dBW/kg

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Bluetooth(GFSK)_Body-wom_Back side_CH 39_10mm

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:0.768 Medium parameters used: f = 2441 MHz; $\sigma = 1.797$ S/m; $\varepsilon_r = 39.42$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.59, 7.59, 7.59); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x151x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0352 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.972 V/m; Power Drift = 0.06 dB

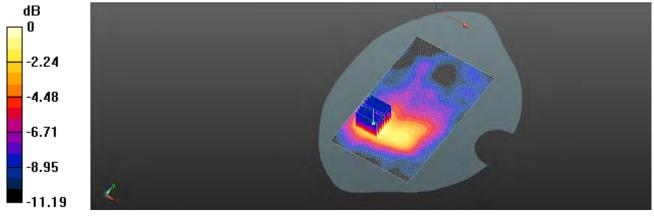
Peak SAR (extrapolated) = 0.0470 W/kg

SAR(1 g) = 0.025 W/kg; SAR(10 g) = 0.014 W/kg

Smallest distance from peaks to all points 3 dB below = 10.6 mm

Ratio of SAR at M2 to SAR at M1 = 54.7%

Maximum value of SAR (measured) = 0.0348 W/kg



0 dB = 0.0348 W/kg = -14.59 dBW/kg

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Date: 2021/1/7

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WLAN 802.11ac(80M) 5.2G_Head_Re Tilt_CH 42

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:0.927

Medium parameters used: f = 5210 MHz; σ = 4.649 S/m; ϵ_r = 35.744; ρ = 1000 kg/m³

Phantom section: Right Section

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.498 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.493 V/m; Power Drift = -0.05 dB

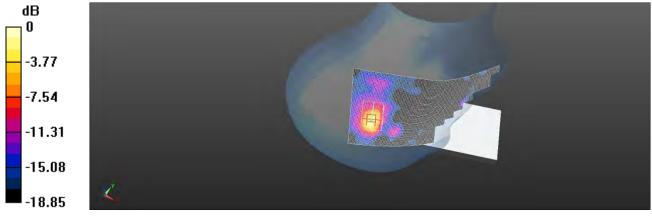
Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.099 W/kg

Smallest distance from peaks to all points 3 dB below = 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 0.748 W/kg



0 dB = 0.748 W/kg = -1.26 dBW/kg

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WLAN 802.11ac(80M) 5.2G_Body-worn_Back side_CH 42_10mm

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:0.927

Medium parameters used: f = 5210 MHz; σ = 4.649 S/m; ϵ_r = 35.744; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.118 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.434 V/m; Power Drift = 0.03 dB

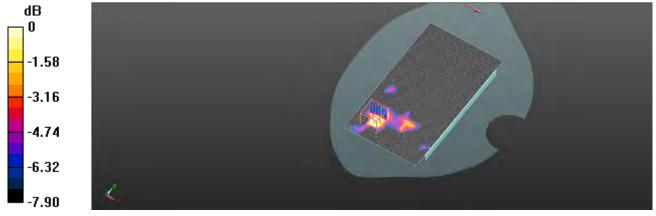
Peak SAR (extrapolated) = 0.174 W/kg

SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.023 W/kg

Smallest distance from peaks to all points 3 dB below = 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 57.3%

Maximum value of SAR (measured) = 0.0912 W/kg



0 dB = 0.0912 W/kg = -10.40 dBW/kg

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WLAN 802.11ac(80M) 5.3G_Head_Re Tilt_CH 58

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:0.927

Medium parameters used: f = 5290 MHz; $\sigma = 4.735 \text{ S/m}$; $\varepsilon_r = 35.686$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.457 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.251 V/m; Power Drift = 0.05 dB

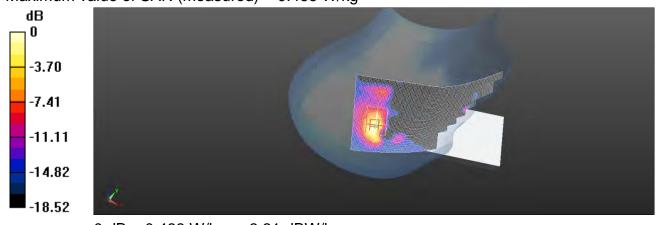
Peak SAR (extrapolated) = 0.964 W/kg

SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.075 W/kg

Smallest distance from peaks to all points 3 dB below = 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 0.466 W/kg



0 dB = 0.466 W/kg = -3.31 dBW/kg

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WLAN 802.11ac(80M) 5.3G_Body-worn_Back side_CH 58_10mm

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:0.927

Medium parameters used: f = 5290 MHz; $\sigma = 4.735 \text{ S/m}$; $\varepsilon_r = 35.686$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.136 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.400 V/m; Power Drift = 0.02 dB

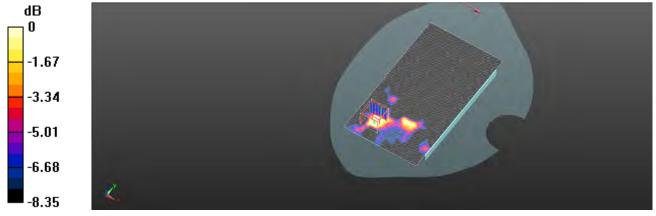
Peak SAR (extrapolated) = 0.158 W/kg

SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.021 W/kg

Smallest distance from peaks to all points 3 dB below = 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 58.3%

Maximum value of SAR (measured) = 0.0859 W/kg



0 dB = 0.0859 W/kg = -10.66 dBW/kg

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WLAN 802.11ac(80M) 5.6G_Head_Re Tilt_CH 106

Communication System: WLAN; Frequency: 5530 MHz; Duty Cycle: 1:0.927

Medium parameters used: f = 5530 MHz; $\sigma = 4.979 \text{ S/m}$; $\epsilon_r = 35.395$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Ambient temperature: 22.2°C; Liquid temperature: 21.5°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.7, 4.7, 4.7); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.689 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.046 V/m; Power Drift = 0.04 dB

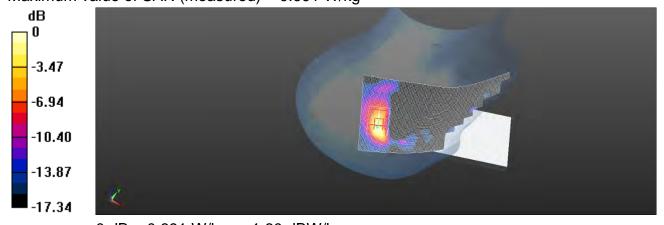
Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.112 W/kg

Smallest distance from peaks to all points 3 dB below = 10.5 mm

Ratio of SAR at M2 to SAR at M1 = 54.2%

Maximum value of SAR (measured) = 0.691 W/kg



0 dB = 0.691 W/kg = -1.60 dBW/kg

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Date: 2021/1/7

Report No.: E5/2020/C0003

WLAN 802.11ac(80M) 5.6G_Body-worn_Back side_CH 106_10mm

Communication System: WLAN; Frequency: 5530 MHz; Duty Cycle: 1:0.927

Medium parameters used: f = 5530 MHz; $\sigma = 4.979 \text{ S/m}$; $\epsilon_r = 35.395$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.5°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.7, 4.7, 4.7); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.196 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.050 V/m; Power Drift = 0.03 dB

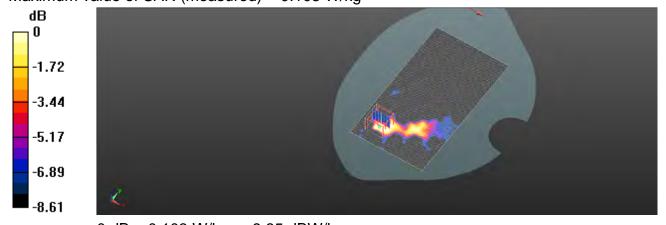
Peak SAR (extrapolated) = 0.186 W/kg

SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.032 W/kg

Smallest distance from peaks to all points 3 dB below = 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 62.3%

Maximum value of SAR (measured) = 0.103 W/kg



0 dB = 0.103 W/kg = -9.85 dBW/kg

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Date: 2021/1/7

Report No.: E5/2020/C0003

WLAN 802.11ac(80M) 5.8G_Head_Re Tilt_CH 155

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:0.927

Medium parameters used: f = 5775 MHz; σ = 5.228 S/m; ϵ_r = 35.102; ρ = 1000 kg/m³

Phantom section: Right Section

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.75, 4.75, 4.75); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x181x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.651 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.775 V/m; Power Drift = 0.04 dB

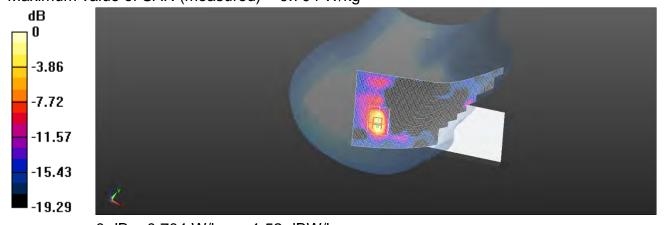
Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.294 W/kg; SAR(10 g) = 0.088 W/kg

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.3%

Maximum value of SAR (measured) = 0.704 W/kg



0 dB = 0.704 W/kg = -1.52 dBW/kg

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Date: 2021/1/7

Report No.: E5/2020/C0003

WLAN 802.11ac(80M) 5.8G_Hotspot_Top side_CH 155_10mm

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:0.927

Medium parameters used: f = 5775 MHz; $\sigma = 5.228$ S/m; $\varepsilon_r = 35.102$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.75, 4.75, 4.75); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.127 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.959 V/m; Power Drift = 0.04 dB

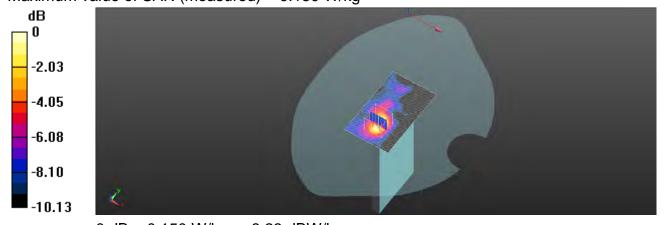
Peak SAR (extrapolated) = 0.254 W/kg

SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.038 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 0.150 W/kg



0 dB = 0.150 W/kg = -8.23 dBW/kg

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6. SAR System Performance Verification

Date: 2021/1/12

Report No.: E5/2020/C0003 Dipole 835 MHz_SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 42.019$ $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 3.02 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.74 V/m; Power Drift = -0.05 dB

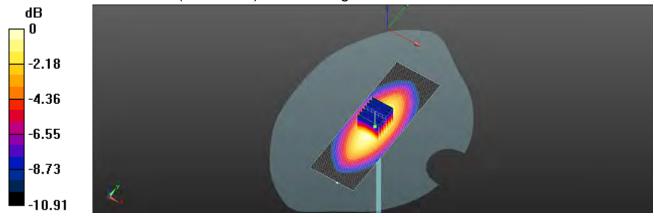
Peak SAR (extrapolated) = 3.56 W/kg

SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.59 W/kg

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 61.7%

Maximum value of SAR (measured) = 3.03 W/kg



0 dB = 3.03 W/kg = 4.82 dBW/kg

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Date: 2021/1/13

Report No.: E5/2020/C0003 Dipole 1900 MHz_SN:5d173

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.384 \text{ S/m}$; $\epsilon_r = 39.657$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.4 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 110.3 V/m; Power Drift = -0.01 dB

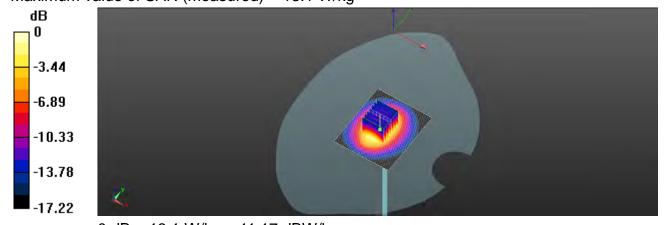
Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 9.86 W/kg; SAR(10 g) = 5.14 W/kg

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 62.4%

Maximum value of SAR (measured) = 13.1 W/kg



0 dB = 13.1 W/kg = 11.17 dBW/kg

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Date: 2021/1/14

Report No.: E5/2020/C0003 Dipole 1900 MHz_SN:5d173

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.384 \text{ S/m}$; $\epsilon_r = 39.654$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 12.6 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 110.2 V/m; Power Drift = -0.04 dB

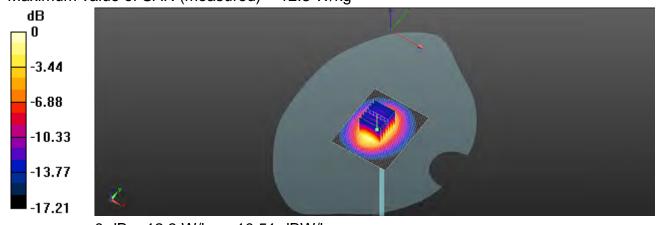
Peak SAR (extrapolated) = 15.4 W/kg

SAR(1 g) = 9.58 W/kg; SAR(10 g) = 5.19 W/kg

Smallest distance from peaks to all points 3 dB below = 9.7 mm

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 12.3 W/kg



0 dB = 12.3 W/kg = 10.51 dBW/kg

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Report No.: E5/2020/C0003 Page: 123 of 133

Date: 2021/1/8

Report No.: E5/2020/C0003 Dipole 2450 MHz_SN:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; $\sigma = 1.805 \text{ S/m}$; $\epsilon_r = 39.384$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.59, 7.59, 7.59); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 19.8 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 111.6 V/m; Power Drift = 0.03 dB

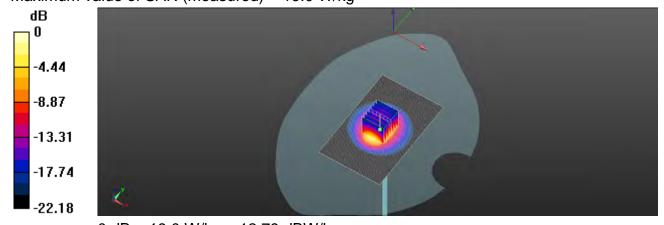
Peak SAR (extrapolated) = 25.4 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.29 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.7%

Maximum value of SAR (measured) = 19.0 W/kg



0 dB = 19.0 W/kg = 12.79 dBW/kg

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Date: 2021/1/9

Report No.: E5/2020/C0003 **Dipole 2600 MHz_SN:1005**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; $\sigma = 1.97 \text{ S/m}$; $\epsilon_r = 39.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 23.7 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 102.6 V/m; Power Drift = -0.02 dB

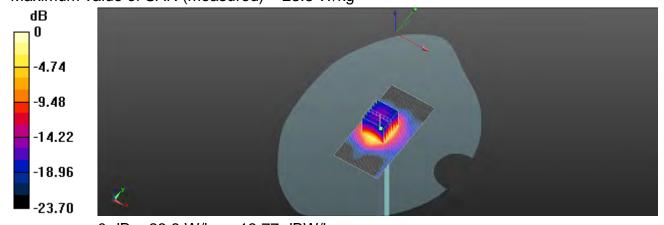
Peak SAR (extrapolated) = 33.7 W/kg

SAR(1 g) = 14.9 W/kg; SAR(10 g) = 6.55 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 63.8%

Maximum value of SAR (measured) = 23.8 W/kg



0 dB = 23.8 W/kg = 13.77 dBW/kg

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Date: 2021/1/10

Report No.: E5/2020/C0003 **Dipole 2600 MHz_SN:1005**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; $\sigma = 1.969 \text{ S/m}$; $\varepsilon_r = 39.192$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.6 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.5 V/m; Power Drift = -0.02 dB

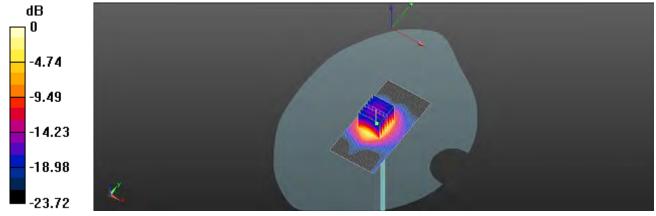
Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 14.8 W/kg; SAR(10 g) = 6.47 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 63.9%

Maximum value of SAR (measured) = 21.5 W/kg



0 dB = 21.5 W/kg = 13.32 dBW/kg

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Date: 2021/1/11

Report No.: E5/2020/C0003 **Dipole 2600 MHz_SN:1005**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; $\sigma = 1.97 \text{ S/m}$; $\epsilon_r = 39.22$; $\rho = 1170 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.1 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.4 V/m; Power Drift = -0.03 dB

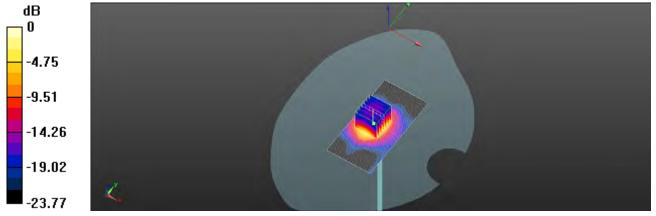
Peak SAR (extrapolated) = 30.1 W/kg

SAR(1 g) = 14.4 W/kg; SAR(10 g) = 6.41 W/kg

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 55.8%

Maximum value of SAR (measured) = 21.2 W/kg



0 dB = 21.2 W/kg = 12.65 dBW/kg

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Date: 2021/1/7

Report No.: E5/2020/C0003 **Dipole 5200 MHz_SN:1023**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5200 MHz; $\sigma = 4.641 \text{ S/m}$; $\varepsilon_r = 35.755$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.7 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 66.73 V/m; Power Drift = -0.02 dB

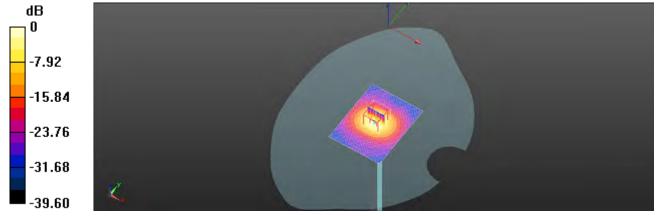
Peak SAR (extrapolated) = 29.4 W/kg

SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.31 W/kg

Smallest distance from peaks to all points 3 dB below = 10.9 mm

Ratio of SAR at M2 to SAR at M1 = 67.6%

Maximum value of SAR (measured) = 15.4 W/kg



0 dB = 15.4 W/kg = 11.89 dBW/kg

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Date: 2021/1/7

Report No.: E5/2020/C0003 **Dipole 5300 MHz_SN:1023**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5300 MHz; $\sigma = 4.741 \text{ S/m}$; $\varepsilon_r = 35.66$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.2 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 61.55 V/m; Power Drift = 0.03 dB

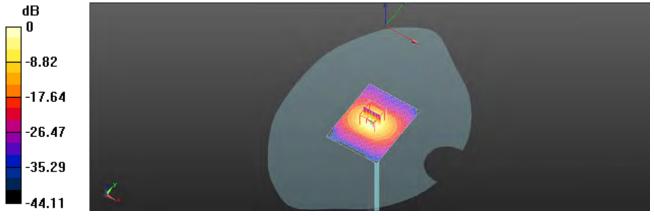
Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 8.15 W/kg; SAR(10 g) = 2.33 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 58.7%

Maximum value of SAR (measured) = 15.5 W/kg



0 dB = 15.5 W/kg = 11.65 dBW/kg

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Date: 2021/1/7

Report No.: E5/2020/C0003 Dipole 5600 MHz_SN:1023

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5600 MHz; $\sigma = 5.05 \text{ S/m}$; $\epsilon_r = 35.333$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.5°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.7, 4.7, 4.7); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 21.4 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 59.51 V/m; Power Drift = -0.06 dB

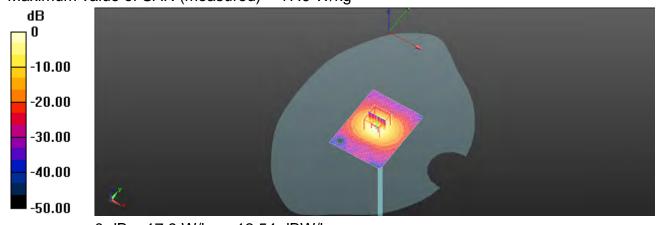
Peak SAR (extrapolated) = 37.1 W/kg

SAR(1 g) = 8.47 W/kg; SAR(10 g) = 2.39 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 56.7%

Maximum value of SAR (measured) = 17.9 W/kg



0 dB = 17.9 W/kg = 12.54 dBW/kg

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Date: 2021/1/7

Report No.: E5/2020/C0003 **Dipole 5800 MHz_SN:1023**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5800 MHz; $\sigma = 5.256 \text{ S/m}$; $\epsilon_r = 35.071$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.75, 4.75, 4.75); Calibrated: 2020/2/27

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: SAM

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 20.7 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 63.61 V/m; Power Drift = -0.06 dB

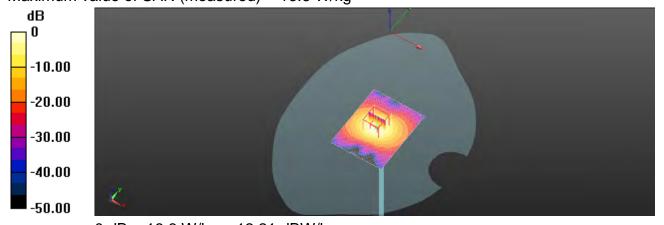
Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 8.22 W/kg; SAR(10 g) = 2.33 W/kg

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 66.2%

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.21 dBW/kg

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7. 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	Probability Distributio	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%	œ
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	œ
lsotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	œ
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	8
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	80
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%	00
RF ambient condition -	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%	00
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	œ
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	00
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	80
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%	80
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	80
Liquid permittivity (mea.)	0.65%	N	1	1	0.64	0.43	0.42%	0.28%	М
Liquid Conductivity (mea.)	0.35%	N	1	1	0.6	0.49	0.21%	0.17%	М
Combined standard uncertainty		RSS					11.73%	11.71%	
Expant uncertainty (95% confidence interval), K=2							23.45%	23.42%	

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

А	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	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%	∞
lsotropy , 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%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
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%	8
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 -	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 shell	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%	∞
Liquid permittivity (mea.)	1.25%	N	1	1	0.64	0.43	0.80%	0.54%	М
Liquid Conductivity (mea.)	1.36%	N	1	1	0.6	0.49	0.82%	0.67%	М
Combined standard uncertainty		RSS					11.47%	11.44%	
Expant uncertainty (95% confidence interval), K=2							22.95%	22.88%	

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Appendixes

Refer to separated files for the following appendixes.

E52020C0003 SAR_Appendix A Photographs

E52020C0003 SAR Appendix B DAE & Probe Cal. Certificate

E52020C0003 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End 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.

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