



Radio Test Report

Report No.: STS2503099W06

Issued for

FOXX Development Inc.

3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005,
USA

Product Name: Smart Phone

Brand Name: MIRO, FOXX, FOXXD, AIRVOICE,
FOXXD HTH

Model Name: C69M Pro

Series Model(s): N/A

FCC ID: 2AQRM-C69MPRO

Test Standards: 47 CFR Part 2, 22, 24, 27, 90

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name: FOXX Development Inc.
Address.....: 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA
Manufacturer's Name: FOXX Development Inc.
Address.....: 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

Product Description

Product Name: Smart Phone
Brand Name.....: MIRO, FOXX, FOXXD, AIRVOICE, FOXXD HTH
Model Name.....: C69M Pro
Series Model(s): N/A
Test Standards.....: 47 CFR Part 2, 22, 24, 27, 90
Test Procedure.....: KDB 971168 D01 v03r01,ANSI C63.26(2015)

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test.....:

Date of receipt of test item: March 09, 2025
Date (s) of performance of tests : March 09, 2025~April 01, 2025
Date of Issue: April 02, 2025
Test Result: Pass

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	April 02, 2025	STS2503099W06	ALL	Initial Issue

**SUMMARY OF TEST RESULTS**

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26(2015)

Test Description	FCC Rules	Band	Test Limit	Test Result
Conducted Output Power	2.1046	/	Reporting Only	PASS
Transmitter Radiated Power	22.913	B5, B26	ERP < 7 Watt	PASS
	24.232(c)	B2, B25,	EIRP < 2Watt	
	27.50(b)	/	ERP < 3 Watt	
	27.50(c)	B12, B17, B71	ERP < 3 Watt	
	27.50(d)	B4, B66	EIRP < 1Watt	
	27.50(h)	B7	EIRP < 2Watt	
	90.542	/	ERP < 3Watt	
	90.635(b)	B26	ERP < 100Watt	
Peak-to-Average Ratio	22.913(d)	B5, B26	< 13 dB	PASS
	24.232(d)	B2, B25		
	27.50	B4, B7, B12, B17, B66, B71		
Occupied Bandwidth	2.1049	/	Reporting Only	PASS
Frequency Stability	2.1055	/	< 2.5 ppm	PASS
	22.355	B5, B26		
	24.235	B2, B25,		
	27.54	B4, B7, B12, B17, B66, B71		
	90.213	B26		
	90.539	/	<1.25 ppm	PASS
Spurious Emission at Antenna Terminals	2.1051	/	< 43+10log10(P[Watts])	PASS
	22.917	B5, B26		



	24.238(a)	B2, B25		
	27.53(c)	/		
	27.53(g)	B12, B17, B71		
	27.53(h)	B4, B66		
	90.543(e)	/		
	90.691	B26		
	27.53(a)	/	< 70+10log10(P[Watts])	
	27.53(m)	B7	< 55+10log10(P[Watts])	
Band Edge	2.1051	/	Please refer to standard	PASS
	22.917	B5, B26		
	24.238(a)	B2, B25		
	27.53(c)	/		
	27.53(g)	B12, B17, B71		
	27.53(h)	B4, B66		
	27.53(a)	/		
	27.53(m)	B7		
	90.543(e)	/		
	90.691	B26		
Field Strength of Spurious Radiation	2.1053	/	< 43+10log10(P[Watts])	PASS
	22.917	B5, B26		
	24.238(a)	B2, B25		
	27.53(c)	/		
	27.53(g)	B12, B17, B71		
	27.53(h)	B4, B66		
	90.543(e)	/		



	90.691	B26		
	27.53(a)	/	$< 70 + 10 \log_{10}(P[\text{Watts}])$	
	27.53(m)	B7	$< 55 + 10 \log_{10}(P[\text{Watts}])$	



1 INTRODUCTION

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement data shown herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.755\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.874\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.18\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.90\text{dB}$
6	All emissions, radiated >6G	$\pm 5.24\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.19\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.53\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.5\%$
10	Power Spectral Density, conducted	$\pm 1.245\text{dB}$
11	Duty Cycle	$\pm 3.2\%$



2 PRODUCT INFORMATION

Product Name	Smart Phone
Brand Name	MIRO, FOXX, FOXXD, AIRVOICE, FOXXD HTH
Model Name	C69M Pro
Series Model(s)	N/A
Model Difference	N/A
Tx Frequency:	GSM/GPRS/EGPRS 850: 824.2MHz ~ 848.8MHz GSM/GPRS/EGPRS 1900: 1850.2MHz ~ 1909.8MHz WCDMA Band V: 826.4MHz ~ 846.6MHz WCDMA Band IV: 1712.4MHz ~ 1752.6MHz WCDMA Band II: 1852.4MHz ~ 1907.6MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26a: 814 MHz ~ 824 MHz LTE Band 26b: 824 MHz ~ 849 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz
Rx Frequency:	GSM/GPRS/EGPRS 850: 869.2MHz ~ 893.8MHz GSM/GPRS/EGPRS 1900: 1930.2MHz ~ 1989.8MHz WCDMA Band V: 871.4MHz ~ 891.6MHz WCDMA Band IV: 2112.4MHz ~ 2152.6MHz WCDMA Band II: 1932.4MHz ~ 1987.6MHz LTE Band 2: 1930 MHz ~ 1990 MHz LTE Band 4: 2110 MHz ~ 2155 MHz LTE Band 5: 869 MHz ~ 894 MHz LTE Band 7: 2620 MHz ~ 2690 MHz LTE Band 12: 729 MHz ~ 746 MHz LTE Band 17: 734 MHz ~ 746 MHz LTE Band 25: 1930.7 MHz ~ 1994.3 MHz LTE Band 26a: 859 MHz ~ 869 MHz LTE Band 26b: 869 MHz ~ 894 MHz LTE Band 66: 2110 MHz ~ 2180 MHz LTE Band 71: 706.5 MHz ~ 713.5 MHz
Max RF Output Power:	GSM850: 31.77dBm GSM1900: 27.31dBm GPRS850: 31.79dBm



	GPRS1900:27.33dBm EGPRS850: 25.65dBm EGPRS1900: 24.99dBm WCDMA Band V: 22.13dBm WCDMA Band IV: 21.22dBm WCDMA Band II: 21.25dBm LTE Band 2: 21.89dBm LTE Band 4: 21.82dBm LTE Band 5: 23.18dBm LTE Band 7: 21.09dBm LTE Band 12: 22.65dBm LTE Band 17: 22.70dBm LTE Band 25: 21.78dBm LTE Band 26a: 23.15dBm LTE Band 26b: 23.14dBm LTE Band 66: 21.96dBm LTE Band 71: 22.73dBm
Modulation Characteristics:	GMSK for GSM/GPRS; GMSK and 8PSK for EDGE WCDMA: QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK LTE: QPSK /16QAM
SIM Card:	The EUT has 2 SIM card slots. The report only shows the worst mode data of SIM card 1
Antenna:	Internal Antenna
Antenna gain:	GSM/GPRS/EGPRS 850: -1.47dBi GSM/GPRS/EGPRS 1900: 1.55dBi WCDMA Band V: -1.471dBi WCDMA Band IV: 1.09dBi WCDMA Band II: 1.55dBi LTE Band 2: 1.55dBi LTE Band 4: 1.09dBi LTE Band 5: -1.47dBi LTE Band 7: -2.55dBi LTE Band 12: -0.38dBi LTE Band 17: -0.38dBi LTE Band 25: 1.55dBi LTE Band 26a: -1.47dBi LTE Band 26b: -1.47dBi LTE Band 66: 1.09dBi LTE Band 71: -0.57dBi
GPRS/EDGE Class:	Multi-Class12
Extreme Temp. Tolerance:	-30°C to +50°C
Adapter	Model: QZ-02002AC00 Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 5V, 3A(15.0W) or DC 9V, 2.22A or DC 12V, 1.67A(20.0W Max)
Battery	Rechargeable Li-ion Battery DC 3.87V
Hardware version number:	N/A



Software version number:

N/A

*** Note: The High Voltage 5.5V and Low Voltage 4.5V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage, the antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.*



2.1 EMISSION DESIGNATOR

GSM:

Band	BW	Lower Freq	High Freq	Emission Designator	Rule Parts
GSM850	0.2	824.2	848.8	248KGXW	22H
GSM850	0.2	824.2	848.8	249KG7W	22H
PCS1900	0.2	1850.2	1909.8	249KGXW	24E
PCS1900	0.2	1850.2	1909.8	250KG7W	24E

WCDMA:

Band	BW	Lower Freq	High Freq	Emission Designator	Rule Parts
2	3.84	1852.4	1907.6	4M25F9W	24E
4	3.84	1712.4	1752.6	4M26F9W	27L
5	3.84	826.4	846.6	4M26F9W	22H

LTE:

Band	BW	Lower Freq	High Freq	Emission Designator	Rule Parts
2	1.4	1850.7	1909.3	1M12G7D	24E
2	1.4	1850.7	1909.3	1M11W7D	24E
2	3	1851.5	1908.5	2M73G7D	24E
2	3	1851.5	1908.5	2M73W7D	24E
2	5	1852.5	1907.5	4M56G7D	24E
2	5	1852.5	1907.5	4M55W7D	24E
2	10	1855	1905	9M07G7D	24E
2	10	1855	1905	9M07W7D	24E
2	15	1857.5	1902.5	13M6G7D	24E
2	15	1857.5	1902.5	13M6W7D	24E
2	20	1860	1900	18M2G7D	24E
2	20	1860	1900	18M2W7D	24E
4	1.4	1710.7	1754.3	1M12G7D	27L
4	1.4	1710.7	1754.3	1M12W7D	27L
4	3	1711.5	1753.5	2M73G7D	27L
4	3	1711.5	1753.5	2M73W7D	27L
4	5	1712.5	1752.5	4M54G7D	27L
4	5	1712.5	1752.5	4M56W7D	27L
4	10	1715	1750	9M05G7D	27L
4	10	1715	1750	9M06W7D	27L
4	15	1717.5	1747.5	13M6G7D	27L
4	15	1717.5	1747.5	13M6W7D	27L
4	20	1720	1745	18M2G7D	27L
4	20	1720	1745	18M1W7D	27L
5	1.4	824.7	848.3	1M12G7D	22H
5	1.4	824.7	848.3	1M12W7D	22H
5	3	825.5	847.5	2M73G7D	22H
5	3	825.5	847.5	2M72W7D	22H
5	5	826.5	846.5	4M56G7D	22H
5	5	826.5	846.5	4M55W7D	22H
5	10	829	844	9M09G7D	22H
5	10	829	844	9M08W7D	22H
7	5	2502.5	2567.5	4M56G7D	27M
7	5	2502.5	2567.5	4M56W7D	27M
7	10	2505	2565	9M08G7D	27M
7	10	2505	2565	9M09W7D	27M
7	15	2507.5	2562.5	13M6G7D	27M
7	15	2507.5	2562.5	13M6W7D	27M
7	20	2510	2560	18M2G7D	27M
7	20	2510	2560	18M3W7D	27M
12	1.4	699.7	715.3	1M11G7D	27H
12	1.4	699.7	715.3	1M11W7D	27H
12	3	700.5	714.5	2M74G7D	27H
12	3	700.5	714.5	2M72W7D	27H
12	5	701.5	713.5	4M58G7D	27H
12	5	701.5	713.5	4M62W7D	27H



12	10	704	711	9M10G7D	27H
12	10	704	711	9M09W7D	27H
17	5	706.5	713.5	4M57G7D	27H
17	5	706.5	713.5	4M60W7D	27H
17	10	709	711	9M12G7D	27H
17	10	709	711	9M10W7D	27H
25	1.4	1850.7	1914.3	1M12G7D	24E
25	1.4	1850.7	1914.3	1M11W7D	24E
25	3	1851.5	1913.5	2M74G7D	24E
25	3	1851.5	1913.5	2M73W7D	24E
25	5	1852.5	1912.5	4M60G7D	24E
25	5	1852.5	1912.5	4M58W7D	24E
25	10	1855	1910	9M10G7D	24E
25	10	1855	1910	9M12W7D	24E
25	15	1857.5	1907.5	13M7G7D	24E
25	15	1857.5	1907.5	13M6W7D	24E
25	20	1860	1905	18M2G7D	24E
25	20	1860	1905	18M2W7D	24E
26a	1.4	814.7	823.3	1M11G7D	/
26a	1.4	814.7	823.3	1M11W7D	/
26a	3	815.5	822.5	2M73G7D	/
26a	3	815.5	822.5	2M73W7D	/
26a	5	816.5	821.5	4M55G7D	/
26a	5	816.5	821.5	4M55W7D	/
26a	10	819	819	9M04G7D	/
26a	10	819	819	9M04W7D	/
26b	1.4	824.7	848.3	1M12G7D	/
26b	1.4	824.7	848.3	1M12W7D	/
26b	3	825.5	847.5	2M73G7D	/
26b	3	825.5	847.5	2M72W7D	/
26b	5	826.5	846.5	4M56G7D	/
26b	5	826.5	846.5	4M55W7D	/
26b	10	829	844	9M08G7D	/
26b	10	829	844	9M06W7D	/
26b	15	831.5	841.5	13M6G7D	/
26b	15	831.5	841.5	13M6W7D	/
66	1.4	1710.7	1779.3	1M11G7D	27L
66	1.4	1710.7	1779.3	1M11W7D	27L
66	3	1711.5	1778.5	2M73G7D	27L
66	3	1711.5	1778.5	2M73W7D	27L
66	5	1712.5	1777.5	4M57G7D	27L
66	5	1712.5	1777.5	4M58W7D	27L
66	10	1715	1775	9M10G7D	27L
66	10	1715	1775	9M07W7D	27L
66	15	1717.5	1772.5	13M6G7D	27L
66	15	1717.5	1772.5	13M7W7D	27L
66	20	1720	1770	18M2G7D	27L
66	20	1720	1770	18M2W7D	27L
71	5	665.5	695.5	4M57G7D	27N
71	5	665.5	695.5	4M59W7D	27N
71	10	668	693	9M09G7D	27N
71	10	668	693	9M08W7D	27N
71	15	670.5	690.5	13M6G7D	27N
71	15	670.5	690.5	13M6W7D	27N
71	20	673	688	18M2G7D	27N
71	20	673	688	18M2W7D	27N

3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for WCDMA Band IV.
3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

BAND	TEST MODES	
	RADIATED TCS	CONDUCTED TCS
GSM 850	GSM LINK GPRS/EDGE CLASS 12 LINK	GSM LINK GPRS/EDGE CLASS 12 LINK
GSM 1900	GSM LINK GPRS/EDGE CLASS 12 LINK	GSM LINK GPRS/EDGE CLASS 12 LINK
WCDMA BAND V	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK
WCDMA BAND II	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK
WCDMA BAND IV	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK



LTE:

Test Mode		
Band	Radiated TCs	Conducted TCs
LTE Band 2	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)
LTE Band 4	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)
LTE Band 5	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz)
LTE Band 7	QPSK Link (5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (5MHz / 10MHz / 15MHz / 20MHz)
LTE Band 12	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz)
LTE Band 17	QPSK Link (5MHz / 10MHz)	16QAM Link (5MHz / 10MHz)
LTE Band 25	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)
LTE Band 26a	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz)
LTE Band 26b	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz)
LTE Band 66	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)
LTE Band 71	QPSK Link (5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (5MHz / 10MHz / 15MHz / 20MHz)

**4 MEASUREMENT INSTRUMENTS**

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Wireless Communications Test Set	R&S	CMW 500	117239	2024.09.23	2025.09.22
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2024.09.23	2025.09.22
Pre-Amplifier(18G-40G Hz)	SKET	LNPA_1840-50	SK2018101801	2025.02.22	2026.02.21
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2024.09.23	2025.09.22
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Video Controller	SKET	FCS C-3	N/A	N/A	N/A
Bilog Antenna	TESEQ	CBL6111D	34678	2024.09.30	2025.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2024.09.25	2025.09.24
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	N/A	N/A	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC Power Supply	Zhaoxin	RXN 605D	20R605D11010081	N/A	N/A
Test SW	EMC Test Software	15.2.0.339			
	EZ-EMC	Ver.STSLAB-03A1 RE			
RF Connected Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Wireless Communications Test Set	R&S	CMW 500	131428	2025.02.22	2026.02.21
Signal Analyzer	Agilent	N9020A	MY52440124	2025.02.22	2026.02.21
RF Automatic Test System	Maiwei	MW200-SFCB	N/A	N/A	N/A
Temperature & Humidity Test Chamber	Safety test	AG80L	171200018	2025.02.22	2026.02.21
Programmable Power Supply	Agilent	E3642A	MY40002025	2024.09.23	2025.09.22
Test SW	TST	TSCB562R2			

5 TEST ITEMS

5.1 CONDUCTED OUTPUT POWER&TRANSMITTER RADIATED POWER

TEST OVERVIEW

CONDUCTED OUTPUT POWER:

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

TRANSMITTER RADIATED POWER (EIRP/ERP)

Determining ERP and/or EIRP from conducted RF output power measurements according to ANSI C63.26 2015 Section 5.2.5.5.

In many cases, RF output power limits are specified in terms of the ERP or the EIRP. Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are defined as the product of the power supplied to the antenna and its gain (relative to a dipole antenna in the case of ERP, and relative to an isotropic antenna in the case of EIRP); however, when working in decibels (i.e., logarithmic scale), the ERP and EIRP represent the sum of the transmit antenna gain (in dBd or dBi, respectively) and the conducted RF output power (expressed in dB relative to watts or milliwatts). The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$(1) \text{ ERP or EIRP} = P_{\text{Meas}} + GT$$

$$\text{ERP} = \text{EIRP} - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

GT gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between ERP and EIRP:

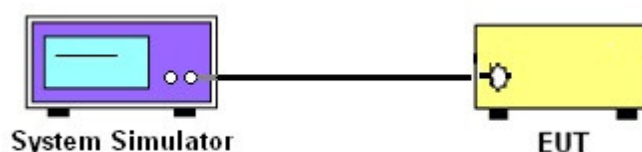
a) $\text{ERP} = \text{EIRP} - 2.15$, where ERP and EIRP are expressed in consistent units.

b) $\text{EIRP} = \text{ERP} + 2.15$, where ERP and EIRP are expressed in consistent units.

TEST PROCEDURES

1. The transmitter output port was connected to the system simulator.
2. Set eut at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

TEST SETUP





TEST RESULT

Note: The test data please reference to attachment “STS2503099W06_Appendix GSM” ,
“STS2503099W06_Appendix WCDMA” and “STS2503099W06_Appendix LTE”.

5.2 PEAK TO AVERAGE RATIO

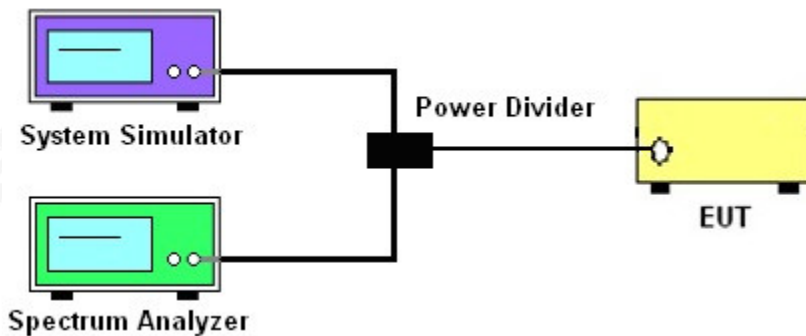
TEST OVERVIEW

According to §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 db.

TEST PROCEDURES

1. The testing follows FCC KDB 971168 v03r01 section.
2. The eut was connected to the peak and av system simulator& spectrum analyzer.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure average power of the spectrum analysis,

TEST SETUP



TEST RESULT

Note: The test data please reference to attachment “STS2503099W06_Appendix GSM” , “STS2503099W06_Appendix WCDMA” and “STS2503099W06_Appendix LTE”.

5.3 OCCUPIED BANDWIDTH

TEST OVERVIEW

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

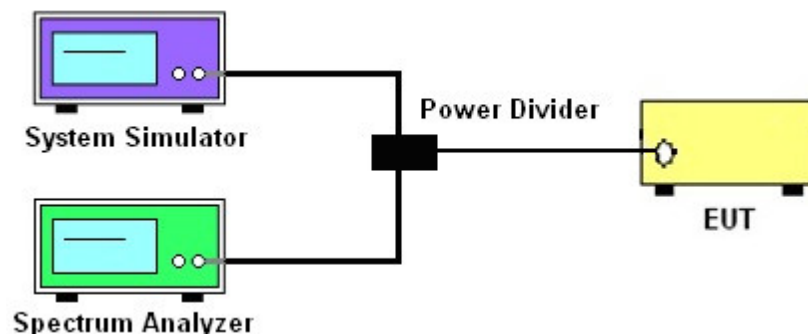
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

All modes of operation were investigated and the worst case configuration results are reported in this section.

TEST PROCEDURE

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. $RBW = 1 - 5\%$ of the expected OBW
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

TEST SETUP



TEST RESULT

Note: The test data please reference to attachment "STS2503099W06_Appendix GSM", "STS2503099W06_Appendix WCDMA" and "STS2503099W06_Appendix LTE".

5.4 FREQUENCY STABILITY

TEST OVERVIEW

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26 2015.

The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to $+50^{\circ}\text{C}$ in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

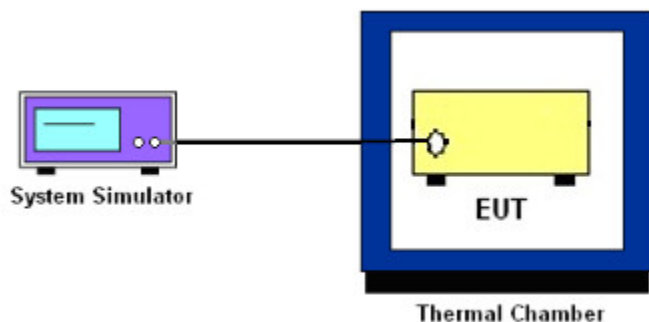
Temperature Variation

1. The testing follows FCC KDB 971168 D01 section 9.0
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

Voltage Variation

1. The testing follows FCC KDB 971168 D01 Section 9.0.
2. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

TEST SETUP





TEST RESULT

Note: The test data please reference to attachment “STS2503099W06_Appendix GSM” ,
“STS2503099W06_Appendix WCDMA” and “STS2503099W06_Appendix LTE”.

5.5 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

TEST OVERVIEW

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7:

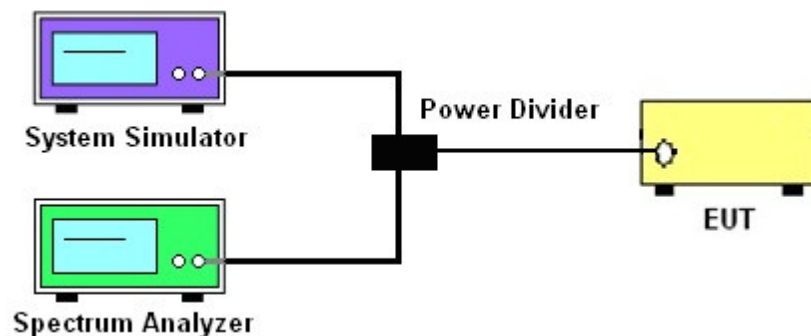
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.7.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13\text{dBm}$.

TEST SETUP



TEST RESULT

Note: The test data please reference to attachment “STS2503099W06_Appendix GSM” , “STS2503099W06_Appendix WCDMA” and “STS2503099W06_Appendix LTE”.



5.6 BAND EDGE

TEST OVERVIEW

1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

3. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4. §27.53(m)(4)

For operations in the 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26-2015-Section 5.7
 2. Start and stop frequency were set such that the band edge would be placed in the center of the Plot.
 3. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
 4. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
- The path loss was compensated to the results for each measurement.
5. The band edges of low and high channels for the highest RF powers were measured.
 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

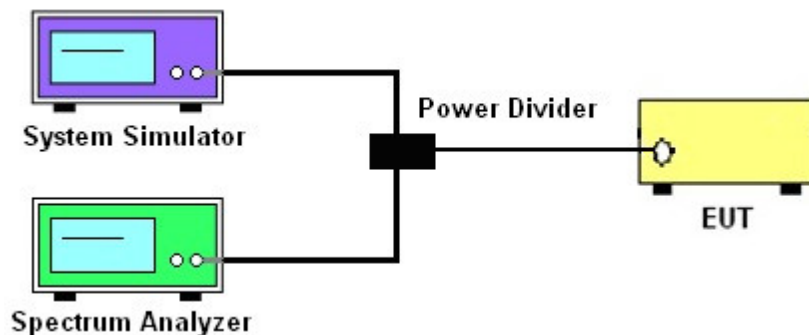
Band 7:

$$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$

$$= -25\text{dBm}.$$

TEST SETUP



TEST RESULT

Note: The test data please reference to attachment “STS2503099W06_Appendix GSM” , “STS2503099W06_Appendix WCDMA” and “STS2503099W06_Appendix LTE”.



5.7 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

TEST OVERVIEW

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power and at the appropriate frequencies.

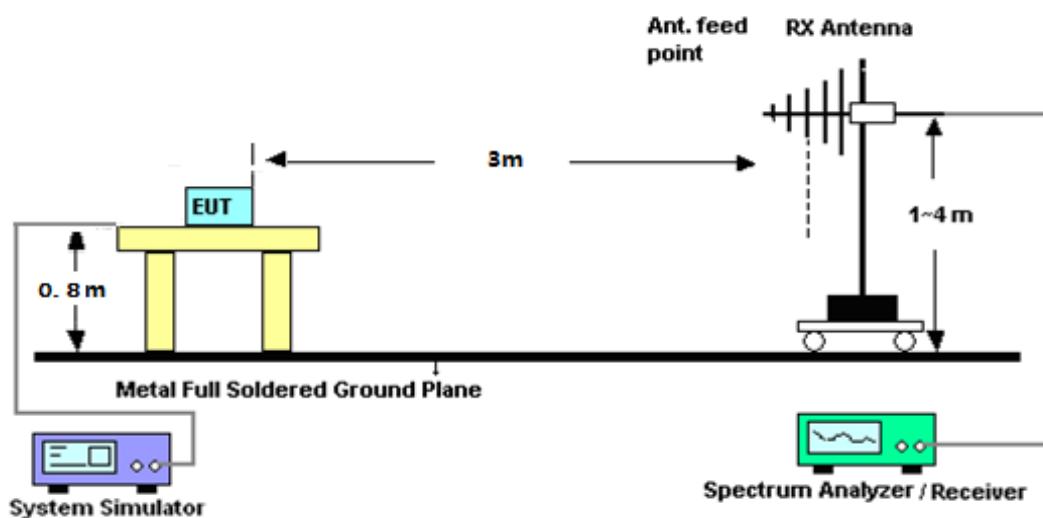
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

TEST PROCEDURE

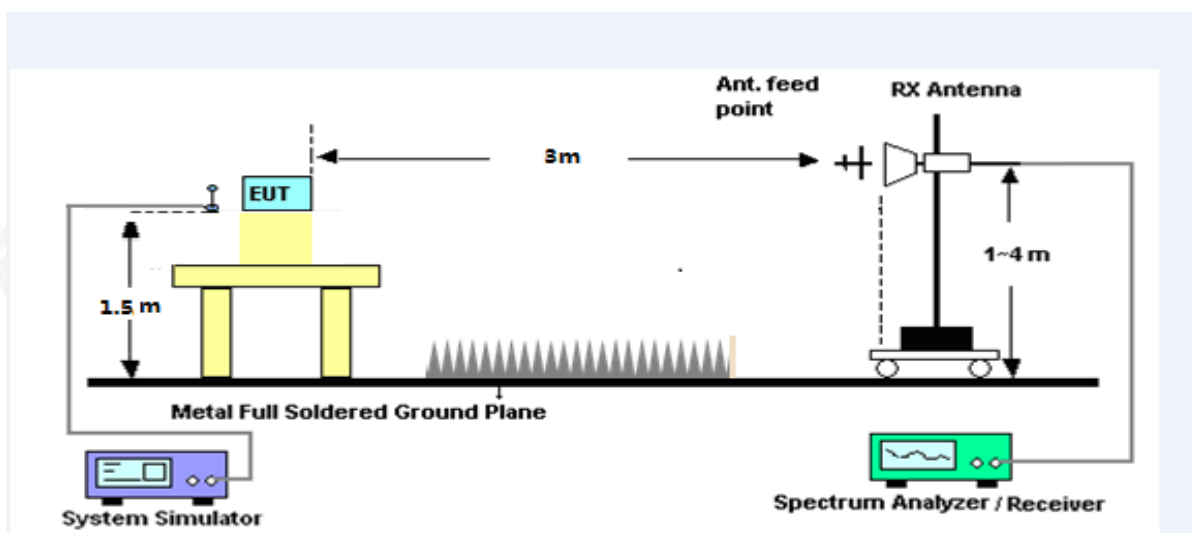
1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $> 2 \times$ span/RBW
6. Detector = Peak
7. Trace mode = max hold
8. The trace was allowed to stabilize
9. Effective Isotropic Spurious Radiation was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna.
 $P_{Mea} = S.G \text{ Level} + \text{Ant-Cable loss}$; $\text{Margin} = P_{Mea} - \text{Limit}$.

TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



TEST RESULT

GSM 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1648.25	-41.23	9.4	4.75	-36.58	-13	-23.58	H
2472.28	-39.34	10.6	8.39	-37.13	-13	-24.13	H
3296.66	-31.91	12	11.79	-31.7	-13	-18.7	H
1648.25	-43.68	9.4	4.75	-39.03	-13	-26.03	V
2472.28	-44.5	10.6	8.39	-42.29	-13	-29.29	V
3296.66	-42.76	12	11.79	-42.55	-13	-29.55	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.28	-41.41	9.5	4.76	-36.67	-13	-23.67	H
2509.46	-40.03	10.7	8.4	-37.73	-13	-24.73	H
3346.01	-31.07	12.2	11.8	-30.67	-13	-17.67	H
1673.28	-43.45	9.4	4.75	-38.8	-13	-25.8	V
2509.46	-44.4	10.6	8.39	-42.19	-13	-29.19	V
3346.01	-42.53	12.2	11.82	-42.15	-13	-29.15	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1697.23	-40.3	9.6	4.77	-35.47	-13	-22.47	H
2546.15	-40.23	10.8	8.5	-37.93	-13	-24.93	H
3394.88	-31.57	12.5	11.9	-30.97	-13	-17.97	H
1697.23	-44.1	9.6	4.77	-39.27	-13	-26.27	V
2546.15	-44.29	10.8	8.5	-41.99	-13	-28.99	V
3394.88	-42.66	12.5	11.9	-42.06	-13	-29.06	V

- Note:** (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.
- (2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value
- (3) Test is divided into three directions, X/Y/Z. X pattern for the worst.
- (4) All mode are tested, and the report only shows the worst mode of GSM(Voice)
- (5) Margin=S G.Lev (dBm)+Ant(dBi)-Loss-Limit

PCS 1900: (30-20000)MHz						
The Worst Test Results for Channel 512/1850.2MHz						
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)
3700.21	-34.68	12.60	12.93	-35.01	-13.00	-22.01
5550.63	-34.79	13.10	17.11	-38.80	-13.00	-25.80
7400.47	-32.55	11.50	22.20	-43.25	-13.00	-30.25
3700.21	-35.83	12.60	12.93	-36.16	-13.00	-23.16
5550.63	-34.43	13.10	17.11	-38.44	-13.00	-25.44
7400.47	-33.14	11.50	22.20	-43.84	-13.00	-30.84
The Worst Test Results for Channel 661/1880.0MHz						
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)
3759.89	-34.06	12.60	12.93	-34.39	-13.00	-21.39
5639.97	-35.37	13.10	17.11	-39.38	-13.00	-26.38
7519.80	-33.57	11.50	22.20	-44.27	-13.00	-31.27
3759.89	-34.73	12.60	12.93	-35.06	-13.00	-22.06
5639.97	-34.71	13.10	17.11	-38.72	-13.00	-25.72
7519.80	-33.09	11.50	22.20	-43.79	-13.00	-30.79
The Worst Test Results for Channel 810/1909.8MHz						
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)
3819.64	-34.46	12.60	12.93	-34.79	-13.00	-21.79
5729.18	-34.67	13.10	17.11	-38.68	-13.00	-25.68
7638.90	-32.28	11.50	22.20	-42.98	-13.00	-29.98
3819.64	-35.74	12.60	12.93	-36.07	-13.00	-23.07
5729.18	-33.76	13.10	17.11	-37.77	-13.00	-24.77
7638.90	-31.95	11.50	22.20	-42.65	-13.00	-29.65

- Note:** (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.
- (2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value
- (3) Test is divided into three directions, X/Y/Z. X pattern for the worst.
- (4) All mode are tested, and the report only shows the worst mode of GSM(Voice)
- (5) Margin=S G.Lev (dBm)+Ant(dBi)-Loss-Limit

WCDMA Band 2: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
3704.14	-34.53	12.6	12.93	-34.86	-13	-21.86	H
5557.64	-35.1	13.1	17.11	-39.11	-13	-26.11	H
7409.81	-32.81	11.5	22.2	-43.51	-13	-30.51	H
3704.14	-35.18	12.6	12.93	-35.51	-13	-22.51	V
5557.64	-34.63	13.1	17.11	-38.64	-13	-25.64	V
7409.81	-32.07	11.5	22.2	-42.77	-13	-29.77	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
3759.83	-34.27	12.6	12.93	-34.6	-13	-21.6	H
5640.23	-34.24	13.1	17.11	-38.25	-13	-25.25	H
7519.83	-32.95	11.5	22.2	-43.65	-13	-30.65	H
3759.83	-35.09	12.6	12.93	-35.42	-13	-22.42	V
5640.23	-34.85	13.1	17.11	-38.86	-13	-25.86	V
7519.83	-33.13	11.5	22.2	-43.83	-13	-30.83	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
3815.4	-34.35	12.6	12.93	-34.68	-13	-21.68	H
5722.73	-34.53	13.1	17.11	-38.54	-13	-25.54	H
7630.32	-32.62	11.5	22.2	-43.32	-13	-30.32	H
3815.4	-35.38	12.6	12.93	-35.71	-13	-22.71	V
5722.73	-34.23	13.1	17.11	-38.24	-13	-25.24	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4) All mode are tested, and the report only shows the worst mode of RMC

(5) Margin=S G.Lev (dBm)+Ant(dBi)-Loss-Limit

WCDMA Band 5: (30-9000)MHz							
The worst testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
1652.62	-40.73	9.4	4.75	-36.08	-13	-23.08	H
2479.25	-40.35	10.6	8.39	-38.14	-13	-25.14	H
3305.81	-31.03	12	11.79	-30.82	-13	-17.82	H
1652.62	-44.47	9.4	4.75	-39.82	-13	-26.82	V
2479.25	-44.17	10.6	8.39	-41.96	-13	-28.96	V
3305.81	-43	12	11.79	-42.79	-13	-29.79	V
The Worst Test Results Channel 4182/836.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
1672.78	-41.33	9.4	4.75	-36.68	-13	-23.68	H
2509.19	-39.31	10.6	8.39	-37.1	-13	-24.1	H
3345.66	-32.02	12	11.79	-31.81	-13	-18.81	H
1672.78	-43.59	9.4	4.75	-38.94	-13	-25.94	V
2509.19	-44.27	10.6	8.39	-42.06	-13	-29.06	V
3345.66	-42.73	12	11.79	-42.52	-13	-29.52	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
1693.52	-41.61	9.4	4.75	-36.96	-13	-23.96	H
2539.77	-39.74	10.6	8.39	-37.53	-13	-24.53	H
3386.19	-32.22	12	11.79	-32.01	-13	-19.01	H
1693.52	-44.3	9.4	4.75	-39.65	-13	-26.65	V
2539.77	-45.09	10.6	8.39	-42.88	-13	-29.88	V
3386.19	-43.48	12	11.79	-43.27	-13	-30.27	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4)All mode are tested, and the report only shows the worst mode of RMC

(5)Margin=S G.Lev (dBm)+Ant(dBi)-Loss-Limit

WCDMA Band 5: (30-9000)MHz							
The worst testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
1652.62	-40.73	9.4	4.75	-36.08	-13	-23.08	H
2479.25	-40.35	10.6	8.39	-38.14	-13	-25.14	H
3305.81	-31.03	12	11.79	-30.82	-13	-17.82	H
1652.62	-44.47	9.4	4.75	-39.82	-13	-26.82	V
2479.25	-44.17	10.6	8.39	-41.96	-13	-28.96	V
3305.81	-43	12	11.79	-42.79	-13	-29.79	V
The Worst Test Results Channel 4182/836.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
1672.78	-41.33	9.4	4.75	-36.68	-13	-23.68	H
2509.19	-39.31	10.6	8.39	-37.1	-13	-24.1	H
3345.66	-32.02	12	11.79	-31.81	-13	-18.81	H
1672.78	-43.59	9.4	4.75	-38.94	-13	-25.94	V
2509.19	-44.27	10.6	8.39	-42.06	-13	-29.06	V
3345.66	-42.73	12	11.79	-42.52	-13	-29.52	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
1693.52	-41.61	9.4	4.75	-36.96	-13	-23.96	H
2539.77	-39.74	10.6	8.39	-37.53	-13	-24.53	H
3386.19	-32.22	12	11.79	-32.01	-13	-19.01	H
1693.52	-44.3	9.4	4.75	-39.65	-13	-26.65	V
2539.77	-45.09	10.6	8.39	-42.88	-13	-29.88	V
3386.19	-43.48	12	11.79	-43.27	-13	-30.27	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4)All mode are tested, and the report only shows the worst mode of RMC

(5)Margin=S G.Lev (dBm)+Ant(dBi)-Loss-Limit

LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3701.08	-33.69	12.60	12.93	-34.02	-13.00	-21.02	H
5552.17	-34.47	13.10	17.11	-38.48	-13.00	-25.48	H
7402.63	-32.88	11.50	22.20	-43.58	-13.00	-30.58	H
3701.08	-35.59	12.60	12.93	-35.92	-13.00	-22.92	V
5552.17	-34.93	13.10	17.11	-38.94	-13.00	-25.94	V
7402.63	-32.37	11.50	22.20	-43.07	-13.00	-30.07	V
LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.83	-33.53	12.60	12.93	-33.86	-13.00	-20.86	H
5640.09	-35.00	13.10	17.11	-39.01	-13.00	-26.01	H
7520.08	-32.26	11.50	22.20	-42.96	-13.00	-29.96	H
3759.83	-35.92	12.60	12.93	-36.25	-13.00	-23.25	V
5640.09	-34.64	13.10	17.11	-38.65	-13.00	-25.65	V
7520.08	-32.00	11.50	22.20	-42.70	-13.00	-29.70	V
LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3818.58	-34.11	12.60	12.93	-34.44	-13.00	-21.44	H
5727.62	-34.61	13.10	17.11	-38.62	-13.00	-25.62	H
7636.90	-32.18	11.50	22.20	-42.88	-13.00	-29.88	H
3818.58	-34.99	12.60	12.93	-35.32	-13.00	-22.32	V
5727.62	-33.86	13.10	17.11	-37.87	-13.00	-24.87	V
7636.90	-32.11	11.50	22.20	-42.81	-13.00	-29.81	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4) For all bandwidths of LTE frequency band, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

(5) Margin = S G.Lev (dBm) + Ant(dBi) - Loss - Limit

LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3420.97	-33.85	12.90	12.56	-33.51	-13.00	-20.51	H
5131.69	-35.11	13.10	16.32	-38.33	-13.00	-25.33	H
6842.55	-33.20	12.33	21.13	-42.00	-13.00	-29.00	H
3420.97	-35.16	12.90	12.56	-34.82	-13.00	-21.82	V
5131.69	-33.94	13.10	16.32	-37.16	-13.00	-24.16	V
6842.55	-32.34	12.33	21.13	-41.14	-13.00	-28.14	V
LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.65	-33.94	12.90	12.56	-33.60	-13.00	-20.60	H
5196.88	-35.42	13.10	16.32	-38.64	-13.00	-25.64	H
6930.09	-32.38	12.33	21.13	-41.18	-13.00	-28.18	H
3464.65	-35.60	12.90	12.56	-35.26	-13.00	-22.26	V
5196.88	-35.07	13.10	16.32	-38.29	-13.00	-25.29	V
6930.09	-31.91	12.33	21.13	-40.71	-13.00	-27.71	V
LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3508.29	-34.42	12.90	12.56	-34.08	-13.00	-21.08	H
5262.41	-35.03	13.10	16.32	-38.25	-13.00	-25.25	H
7015.80	-33.34	12.33	21.13	-42.14	-13.00	-29.14	H
3508.29	-35.35	12.90	12.56	-35.01	-13.00	-22.01	V
5262.41	-35.05	13.10	16.32	-38.27	-13.00	-25.27	V
7015.80	-32.53	12.33	21.13	-41.33	-13.00	-28.33	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4) For all bandwidths of LTE frequency band, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

(5) $\text{Margin} = \text{S G.Lev (dBm)} + \text{Ant(dBi)} - \text{Loss} - \text{Limit}$

LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1648.62	-34.21	9.56	9.72	-34.37	-13.00	-21.37	H
2473.71	-35.36	10.50	10.86	-35.72	-13.00	-22.72	H
3298.66	-33.39	12.78	11.57	-32.18	-13.00	-19.18	H
1648.62	-35.63	9.56	9.72	-35.79	-13.00	-22.79	V
2473.71	-34.78	10.50	10.86	-35.14	-13.00	-22.14	V
3298.66	-32.33	12.78	11.57	-31.12	-13.00	-18.12	V
LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.45	-34.81	9.56	9.72	-34.97	-13.00	-21.97	H
2509.24	-34.34	10.50	10.86	-34.70	-13.00	-21.70	H
3345.71	-32.66	12.78	11.57	-31.45	-13.00	-18.45	H
1672.45	-34.54	9.56	9.72	-34.70	-13.00	-21.70	V
2509.24	-34.49	10.50	10.86	-34.85	-13.00	-21.85	V
3345.71	-32.67	12.78	11.57	-31.46	-13.00	-18.46	V
LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1696.31	-33.53	9.56	9.72	-33.69	-13.00	-20.69	H
2544.59	-35.30	10.50	10.86	-35.66	-13.00	-22.66	H
3392.81	-32.98	12.78	11.57	-31.77	-13.00	-18.77	H
1696.31	-35.44	9.56	9.72	-35.60	-13.00	-22.60	V
2544.59	-33.78	10.50	10.86	-34.14	-13.00	-21.14	V
3392.81	-32.14	12.78	11.57	-30.93	-13.00	-17.93	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4) For all bandwidths of LTE frequency band, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

(5) Margin = S G.Lev (dBm) + Ant(dBi) - Loss - Limit

LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5005.26	-33.81	12.66	15.86	-37.01	-25.00	-12.01	H
7507.66	-35.19	11.46	19.28	-43.01	-25.00	-18.01	H
10010.31	-32.74	12.79	23.19	-43.14	-25.00	-18.14	H
5005.26	-35.72	12.66	15.86	-38.92	-25.00	-13.92	V
7507.66	-35.06	11.46	19.28	-42.88	-25.00	-17.88	V
10010.31	-31.85	12.79	23.19	-42.25	-25.00	-17.25	V
LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5069.90	-34.81	12.72	15.86	-37.95	-25.00	-12.95	H
7604.98	-34.31	11.46	19.28	-42.13	-25.00	-17.13	H
10139.73	-32.42	12.09	23.19	-43.52	-25.00	-18.52	H
5069.90	-35.88	12.72	15.86	-39.02	-25.00	-14.02	V
7604.98	-34.66	11.46	19.28	-42.48	-25.00	-17.48	V
10139.73	-32.99	12.09	23.19	-44.09	-25.00	-19.09	V
LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5133.70	-33.71	12.76	15.86	-36.81	-25.00	-11.81	H
7701.31	-34.75	11.45	19.28	-42.58	-25.00	-17.58	H
10268.51	-33.25	12.28	23.19	-44.16	-25.00	-19.16	H
5133.70	-34.61	12.76	15.86	-37.71	-25.00	-12.71	V
7701.31	-34.33	11.45	19.28	-42.16	-25.00	-17.16	V
10268.51	-32.38	12.28	23.19	-43.29	-25.00	-18.29	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4) For all bandwidths of LTE frequency band, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

(5) $\text{Margin} = \text{S G.Lev (dBm)} + \text{Ant(dBi)} - \text{Loss} - \text{Limit}$

LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1399.06	-34.75	8.17	9.34	-35.92	-13.00	-22.92	H
2098.87	-34.82	9.53	10.42	-35.71	-13.00	-22.71	H
2798.69	-33.24	11.27	11.12	-33.09	-13.00	-20.09	H
1399.06	-34.82	8.17	9.34	-35.99	-13.00	-22.99	V
2098.87	-34.78	9.53	10.42	-35.67	-13.00	-22.67	V
2798.69	-32.10	11.27	11.12	-31.95	-13.00	-18.95	V
LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.96	-33.81	8.17	9.34	-34.98	-13.00	-21.98	H
2122.36	-34.43	9.53	10.42	-35.32	-13.00	-22.32	H
2829.77	-32.61	11.27	11.12	-32.46	-13.00	-19.46	H
1414.96	-35.53	8.17	9.34	-36.70	-13.00	-23.70	V
2122.36	-35.13	9.53	10.42	-36.02	-13.00	-23.02	V
2829.77	-32.68	11.27	11.12	-32.53	-13.00	-19.53	V
LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1430.36	-33.86	8.17	9.34	-35.03	-13.00	-22.03	H
2145.42	-34.56	9.53	10.42	-35.45	-13.00	-22.45	H
2860.96	-32.44	11.27	11.12	-32.29	-13.00	-19.29	H
1430.36	-35.74	8.17	9.34	-36.91	-13.00	-23.91	V
2145.42	-35.02	9.53	10.42	-35.91	-13.00	-22.91	V
2860.96	-32.80	11.27	11.12	-32.65	-13.00	-19.65	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4) For all bandwidths of LTE frequency band, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

(5) $\text{Margin} = \text{S G.Lev (dBm)} + \text{Ant(dBi)} - \text{Loss} - \text{Limit}$

LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1413.38	-34.14	8.17	9.34	-35.31	-13.00	-22.31	H
2120.53	-34.63	9.53	10.42	-35.52	-13.00	-22.52	H
2826.61	-33.42	11.27	11.12	-33.27	-13.00	-20.27	H
1413.38	-34.54	8.17	9.34	-35.71	-13.00	-22.71	V
2120.53	-35.05	9.53	10.42	-35.94	-13.00	-22.94	V
2826.61	-32.18	11.27	11.12	-32.03	-13.00	-19.03	V
LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1419.79	-33.96	8.17	9.34	-35.13	-13.00	-22.13	H
2130.28	-35.45	9.53	10.42	-36.34	-13.00	-23.34	H
2840.05	-33.22	11.27	11.12	-33.07	-13.00	-20.07	H
1419.79	-35.18	8.17	9.34	-36.35	-13.00	-23.35	V
2130.28	-34.33	9.53	10.42	-35.22	-13.00	-22.22	V
2840.05	-32.93	11.27	11.12	-32.78	-13.00	-19.78	V
LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1426.06	-33.61	8.17	9.34	-34.78	-13.00	-21.78	H
2139.27	-35.22	9.53	10.42	-36.11	-13.00	-23.11	H
2852.65	-32.92	11.27	11.12	-32.77	-13.00	-19.77	H
1426.06	-35.76	8.17	9.34	-36.93	-13.00	-23.93	V
2139.27	-34.34	9.53	10.42	-35.23	-13.00	-22.23	V
2852.65	-31.73	11.27	11.12	-31.58	-13.00	-18.58	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4) For all bandwidths of LTE frequency band, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

(5) Margin = S G.Lev (dBm) + Ant(dBi) - Loss - Limit

LTE Band 25 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3701.40	-34.59	12.60	12.93	-34.92	-13.00	-21.92	H
5552.00	-35.33	13.10	17.11	-39.34	-13.00	-26.34	H
7402.52	-33.12	11.50	22.20	-43.82	-13.00	-30.82	H
3701.40	-35.49	12.60	12.93	-35.82	-13.00	-22.82	V
5552.00	-35.02	13.10	17.11	-39.03	-13.00	-26.03	V
7402.52	-33.08	11.50	22.20	-43.78	-13.00	-30.78	V
LTE Band 25 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.80	-34.26	12.60	12.93	-34.59	-13.00	-21.59	H
5639.84	-35.30	13.10	17.11	-39.31	-13.00	-26.31	H
7520.14	-32.89	11.50	22.20	-43.59	-13.00	-30.59	H
3759.80	-35.38	12.60	12.93	-35.71	-13.00	-22.71	V
5639.84	-35.01	13.10	17.11	-39.02	-13.00	-26.02	V
7520.14	-32.64	11.50	22.20	-43.34	-13.00	-30.34	V
LTE Band 25 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3818.40	-33.80	12.60	12.93	-34.13	-13.00	-21.13	H
5727.69	-35.35	13.10	17.11	-39.36	-13.00	-26.36	H
7637.19	-33.54	11.50	22.20	-44.24	-13.00	-31.24	H
3818.40	-34.92	12.60	12.93	-35.25	-13.00	-22.25	V
5727.69	-33.83	13.10	17.11	-37.84	-13.00	-24.84	V
7637.19	-31.95	11.50	22.20	-42.65	-13.00	-29.65	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4) For all bandwidths of LTE frequency band, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

(5) $\text{Margin} = \text{S G.Lev (dBm)} + \text{Ant(dBi)} - \text{Loss} - \text{Limit}$

LTE Band 26a / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1629.33	-33.69	9.56	9.72	-33.85	-13.00	-20.85	H
2444.28	-34.47	10.50	10.86	-34.83	-13.00	-21.83	H
3258.87	-32.40	12.78	11.57	-31.19	-13.00	-18.19	H
1629.33	-35.62	9.56	9.72	-35.78	-13.00	-22.78	V
2444.28	-34.89	10.50	10.86	-35.25	-13.00	-22.25	V
3258.87	-33.11	12.78	11.57	-31.90	-13.00	-18.90	V
LTE Band 26a / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1637.87	-33.70	9.56	9.72	-33.86	-13.00	-20.86	H
2457.06	-35.33	10.50	10.86	-35.69	-13.00	-22.69	H
3276.13	-32.40	12.78	11.57	-31.19	-13.00	-18.19	H
1637.87	-35.88	9.56	9.72	-36.04	-13.00	-23.04	V
2457.06	-34.70	10.50	10.86	-35.06	-13.00	-22.06	V
3276.13	-31.76	12.78	11.57	-30.55	-13.00	-17.55	V
LTE Band 26 a/ 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1646.35	-33.91	9.56	9.72	-34.07	-13.00	-21.07	H
2469.79	-34.52	10.50	10.86	-34.88	-13.00	-21.88	H
3292.79	-33.31	12.78	11.57	-32.10	-13.00	-19.10	H
1646.35	-35.03	9.56	9.72	-35.19	-13.00	-22.19	V
2469.79	-34.04	10.50	10.86	-34.40	-13.00	-21.40	V
3292.79	-31.79	12.78	11.57	-30.58	-13.00	-17.58	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4) For all bandwidths of LTE frequency band, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

(5) $\text{Margin} = \text{S G.Lev (dBm)} + \text{Ant(dBi)} - \text{Loss} - \text{Limit}$

LTE Band 26b / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1649.44	-34.31	9.56	9.72	-34.47	-13.00	-21.47	H
2473.32	-34.58	10.50	10.86	-34.94	-13.00	-21.94	H
3298.88	-32.42	12.78	11.57	-31.21	-13.00	-18.21	H
1649.44	-35.03	9.56	9.72	-35.19	-13.00	-22.19	V
2473.32	-34.46	10.50	10.86	-34.82	-13.00	-21.82	V
3298.88	-32.11	12.78	11.57	-30.90	-13.00	-17.90	V
LTE Band 26b / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.86	-33.71	9.56	9.72	-33.87	-13.00	-20.87	H
2509.25	-34.60	10.50	10.86	-34.96	-13.00	-21.96	H
3345.95	-33.27	12.78	11.57	-32.06	-13.00	-19.06	H
1672.86	-34.83	9.56	9.72	-34.99	-13.00	-21.99	V
2509.25	-34.64	10.50	10.86	-35.00	-13.00	-22.00	V
3345.95	-32.62	12.78	11.57	-31.41	-13.00	-18.41	V
LTE Band 26b / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1696.43	-33.68	9.56	9.72	-33.84	-13.00	-20.84	H
2544.67	-34.31	10.50	10.86	-34.67	-13.00	-21.67	H
3393.07	-32.33	12.78	11.57	-31.12	-13.00	-18.12	H
1696.43	-35.13	9.56	9.72	-35.29	-13.00	-22.29	V
2544.67	-33.80	10.50	10.86	-34.16	-13.00	-21.16	V
3393.07	-32.06	12.78	11.57	-30.85	-13.00	-17.85	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4) For all bandwidths of LTE frequency band, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

(5) $\text{Margin} = \text{S G.Lev (dBm)} + \text{Ant(dBi)} - \text{Loss} - \text{Limit}$

LTE Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3421.30	-34.16	12.90	12.56	-33.82	-13.00	-20.82	H
5131.91	-34.35	13.10	16.32	-37.57	-13.00	-24.57	H
6842.65	-32.59	12.33	21.13	-41.39	-13.00	-28.39	H
3421.30	-34.76	12.90	12.56	-34.42	-13.00	-21.42	V
5131.91	-34.38	13.10	16.32	-37.60	-13.00	-24.60	V
6842.65	-32.82	12.33	21.13	-41.62	-13.00	-28.62	V
LTE Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3489.99	-33.69	12.90	12.56	-33.35	-13.00	-20.35	H
5234.81	-34.41	13.10	16.32	-37.63	-13.00	-24.63	H
6980.13	-32.31	12.33	21.13	-41.11	-13.00	-28.11	H
3489.99	-34.53	12.90	12.56	-34.19	-13.00	-21.19	V
5234.81	-34.72	13.10	16.32	-37.94	-13.00	-24.94	V
6980.13	-32.92	12.33	21.13	-41.72	-13.00	-28.72	V
LTE Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3557.85	-34.13	12.90	12.56	-33.79	-13.00	-20.79	H
5336.87	-34.67	13.10	16.32	-37.89	-13.00	-24.89	H
7116.78	-32.26	12.33	21.13	-41.06	-13.00	-28.06	H
3557.85	-35.73	12.90	12.56	-35.39	-13.00	-22.39	V
5336.87	-34.17	13.10	16.32	-37.39	-13.00	-24.39	V
7116.78	-32.77	12.33	21.13	-41.57	-13.00	-28.57	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4) For all bandwidths of LTE frequency band, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

(5) Margin = S G.Lev (dBm) + Ant(dBi) - Loss - Limit

LTE Band 71 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1330.77	-34.41	8.17	9.34	-35.58	-13.00	-22.58	H
1966.49	-34.39	9.53	10.42	-35.28	-13.00	-22.28	H
2661.70	-32.51	11.27	11.12	-32.36	-13.00	-19.36	H
1330.77	-36.02	8.17	9.34	-37.19	-13.00	-24.19	V
1966.49	-33.81	9.53	10.42	-34.70	-13.00	-21.70	V
2661.70	-32.67	11.27	11.12	-32.52	-13.00	-19.52	V
LTE Band 71 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1361.23	-33.71	8.17	9.34	-34.88	-13.00	-21.88	H
2041.57	-35.40	9.53	10.42	-36.29	-13.00	-23.29	H
2721.97	-33.03	11.27	11.12	-32.88	-13.00	-19.88	H
1361.23	-35.15	8.17	9.34	-36.32	-13.00	-23.32	V
2041.57	-34.86	9.53	10.42	-35.75	-13.00	-22.75	V
2721.97	-33.11	11.27	11.12	-32.96	-13.00	-19.96	V
LTE Band 71 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1391.00	-34.17	8.17	9.34	-35.34	-13.00	-22.34	H
2085.75	-35.09	9.53	10.42	-35.98	-13.00	-22.98	H
2781.82	-32.71	11.27	11.12	-32.56	-13.00	-19.56	H
1391.00	-34.77	8.17	9.34	-35.94	-13.00	-22.94	V
2085.75	-34.52	9.53	10.42	-35.41	-13.00	-22.41	V
2781.82	-32.07	11.27	11.12	-31.92	-13.00	-18.92	V

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 18GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

(4)For all bandwidths of LTE frequency band, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

(5)Margin=S G.Lev (dBm)+Ant(dBi)-Loss-Limit



APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

*****END OF THE REPORT*****