

FCC/ISED RF TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Smart Phone

ISSUED TO
Shenzhen UniStrong Science & Technology Co., Ltd.

B, 4-4Factory, Zhengcheng Road, FuyongBaoan District, Shenzhen,
China.



Tested by: Deng Biping
Heng Aiping
(Engineer)

Date: Mar. 07, 2018

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)

Date: Mar. 07, 2018

Report No.: BL-EC17C0360-501
EUT Name: Smart Phone
Model Name: UT10
Brand Name: UniStrong
Test Standard: 47 CFR Part 2 (10-1-17 Edition)
IC RSS-Gen Issue 4, November 2014
(Other refer to chapter 3.1)
FCC ID: 2AOPD-UT10
ISED Number: 11546A-UT10
Test Conclusion: Pass
Test Date: Jan. 03, 2018 ~ Mar. 05, 2018
Date of Issue: Mar. 07, 2018

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Mar. 07, 2018</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China.
Phone Number	+86 755 6685 0100
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location 1	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China.
Accreditation Certificate1	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory is a testing organization accredited by FCC as an accredited testing laboratory. The designation number is CN1196. The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025. The accreditation certificate number is 4344.01. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Test Environment Condition

Ambient Temperature	20 to 35 °C
Ambient Relative Humidity	30 to 60 %
Ambient Pressure	98 to 102KPa

1.4 Announce

- (1) The test report reference to the report template version v1.0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shenzhen UniStrong Science & Technology Co.,Ltd.
Address	B, 4-4Factory, Zhengcheng Road, FuyongBaoan District, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	Shenzhen UniStrong Science & Technology Co.,Ltd.
Address	B, 4-4Factory, Zhengcheng Road, FuyongBaoan District, Shenzhen, China

2.3 Factory Information

Factory	Shenzhen UniStrong Science & Technology Co.,Ltd.
Address	B, 4-4Factory, Zhengcheng Road, FuyongBaoan District, Shenzhen, China

2.4 General Description for Equipment under Test (EUT)

EUT Name	Smart Phone
Model Name	UT10
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	UT10_V104
Software Version	UT10_V1.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
Network and Wireless connectivity	GSM/GPRS/EGPRS 850/900/1800/1900 MHz; CDMA Band Class 0; EVDO Rel. 0/Rev. A Band Class 0; WCDMA/HSDPA/HSUPA Band 1/2/5/8; LTE FDD Band 1/2/3/4/5/7/8/17/20/28; LTE TDD Band 38/40/41; Bluetooth, WIFI, GPS, GLONASS, NFC, BDS
About the Product	The equipment is Smart Phone, intended for used with information technology equipment.
Note 1: The EUT is a smart phone, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, CDMA, WCDMA and LTE. And both SIM card slots share the same transceiver, so only SIM1 is tested in this report.	

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	SJYEnergy
	Model No.	BA7800
	Serial No.	N/A
	Capacity	8000 mAh
	Rated Voltage	3.8 V
	Limit Charge Voltage	4.35 V
Ancillary Equipment 2 ^{Note}	Adapter	
	Brand Name	N/A
	Model No.	ASUC71W-050912300
	Serial No.	ASUC71z-050912300 (z= a, e, i, w)
	Rated Input	100-240 V~, 0.7 A, 50/60 Hz
	Rated Output	5 V= 3 A or 9 V= 2 A or 12 V= 1.5 A
Ancillary Equipment 3 ^{Note}	Adapter	
	Brand Name	N/A
	Model No.	ASUC71W-036120300
	Serial No.	ASUC71z-036120300 (z= a, e, i, w)
	Rated Input	100-240 V~, 0.7 A, 50/60 Hz
	Rated Output	5 V= 3 A or 9 V= 2 A or 12 V= 1.5 A
Ancillary Equipment 4	USB Cable	
	Length (Approx.)	1.0 m
Note: Additional models ASUC71z-036120300 are identical in circuitry and electrical, mechanical and physical construction with the test model ASUC71z-050912300, the only differences are the appearance and model no. for trading purpose.		

2.6 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

Frequency Bands	GSM/GPRS/EGPRS 850/1900 CDMA Band Class 0 EVDO Rel. 0/Rev. A Band Class 0 WCDMA/HSDPA/HSUPA Band 2/5 LTE FDD Band 2/4/5/7/17 LTE TDD Band 41	
Modulation Type	GSM/GPRS	GMSK
	EGPRS	8PSK
	CDMA	OQPSK, HPSK
	EVDO	QPSK, 8PSK, 16-QAM
	WCDMA	QPSK
	HSDPA	QPSK
	/HSUPA	16QAM
	LTE	QPSK 16QAM
TX Frequency Range	GSM/GPRS/EGPRS 850: 824 - 849 MHz GSM/GPRS/EGPRS 1900: 1850 - 1910 MHz CDMA/EVDO BC0: 824.025 - 848.985 MHz WCDMA/HSDPA/HSUPA Band 2: 1850 -1910 MHz WCDMA/HSDPA/HSUPA Band 5: 824 - 849 MHz LTE FDD Band 2: 1850 - 1910 MHz LTE FDD Band 4: 1710 - 1755 MHz LTE FDD Band 5: 824 - 849 MHz LTE FDD Band 7: 2500 - 2570 MHz LTE FDD Band 17: 704 - 716 MHz LTE TDD Band 41: 2555 - 2655 MHz	
Rx Frequency Range	GSM/GPRS/EGPRS 850: 869 - 894 MHz GSM/GPRS/EGPRS 1900: 1930 - 1990 MHz CDMA/EVDO BC0: 869.025 - 893.985 MHz WCDMA/HSDPA/HSUPA Band 2: 1930 - 1990 MHz WCDMA/HSDPA/HSUPA Band 5: 869 - 894 MHz LTE FDD Band 2: 1930 - 1990 MHz LTE FDD Band 4: 2110 - 2155 MHz LTE FDD Band 5: 869 - 894 MHz LTE FDD Band 7: 2620 - 2690 MHz LTE FDD Band 17: 734- 746 MHz LTE TDD Band 41: 2555 - 2655 MHz	
Power Class	GSM/GPRS 850: 4 GSM/GPRS 1900: 1 EGPRS 850/1900: E2 CDMA/EVDO BC0: 3 WCDMA/HSDPA/HSUPA Band 2: 3	

	WCDMA/HSDPA/HSUPA Band 5: 3 LTE FDD Band 2: 3 LTE FDD Band 4: 3 LTE FDD Band 5: 3 LTE FDD Band 7: 3 LTE FDD Band 17: 3 LTE TDD Band 41: 3
Multislot Class	GPRS/EGPRS: 12
Antenna Type	PIFA Antenna
Antenna Gain	GSM/GPRS/EGPRS 850: 1.5 dBi GSM/GPRS/EGPRS 1900: 1.5 dBi CDMA/EVDO BC0: 1.5 dBi WCDMA/HSDPA/HSUPA Band 2: 1.5 dBi WCDMA/HSDPA/HSUPA Band 5: 1.5 dBi LTE FDD Band 2: 1.5 dBi LTE FDD Band 4: 1.5 dBi LTE FDD Band 5: 1.5 dBi LTE FDD Band 7: 1.5 dBi LTE FDD Band 17: 1.5 dBi LTE TDD Band 41: 1.5 dBi

Note 1: The EUT information are declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or user's manual.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2 (10 – 1 – 17 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 Subpart H (10 – 1 – 17 Edition)	Cellular Radiotelephone Service
3	47 CFR Part 24 Subpart E (10 – 1 – 17 Edition)	Broadband PCS
4	47 CFR Part 27 (10 – 1 – 17 Edition)	Miscellaneous Wireless Communications Services
5	RSS-Gen Issue4 (November 2014)	General Requirements and Information for the Certification of Radio Apparatus
6	RSS-132 Issue3 (January 2013)	Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz
7	RSS-133 Issue6 (January 2013)	2 GHz Personal Communications Services
8	RSS-139 Issue3 (July 2015)	Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2180 MHz
9	RSS-199 Issue3 (December 2016)	Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz
10	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
11	KDB 971168 D01 v03	Measurement Guidance for Certification of Licensed Digital Transmitters

3.2 Test Verdict

No.	Description	FCC Part No.	ISED Part No.	Test Result	Verdict
1	Conducted RF Output Power	2.1046	RSS-Gen 6.12 RSS-132 5.4 RSS-133 6.4 RSS-139 6.5 RSS-199 4.4	Reporting only (ANNEX A.1)	Pass
2	Effective (Isotropic) Radiated Power	2.1046 22.913 24.232 27.50(b) 27.50(c) 27.50(d) 27.50(h)	RSS-Gen 6.12 RSS-132 5.4 RSS-133 6.4 RSS-139 6.5 RSS-199 4.4	ANNEX A.1	Pass
3	Peak to Average Ratio	2.1046 24.232(d) 27.50(d)	RSS-132 5.4 RSS-133 6.4 RSS-139 6.5 RSS-199 4.4	ANNEX A.2	Pass
4	Occupied Bandwidth	2.1049 22.917 24.238 27.53	RSS-Gen 6.6	ANNEX A.3	Pass
5	Frequency Stability	2.1055 22.355 24.235 27.54	RSS-Gen 6.11 RSS-132 5.3 RSS-133 6.3 RSS-139 6.4 RSS-199 4.3	ANNEX A.4	Pass
6	Spurious Emission at Antenna Terminals	2.1051 22.917 24.238 27.53(c) 27.53(g) 27.53(h) 27.53(m)	RSS-Gen 6.13 RSS-132 5.5 RSS-133 6.5 RSS-139 6.6 RSS-199 4.5	ANNEX A.5	Pass
7	Band Edge	2.1051 22.917 24.238 27.53(c) 27.53(g) 27.53(h) 27.53(m)	RSS-132 5.5 RSS-133 6.5 RSS-139 6.6 RSS-199 4.5	ANNEX A.6	Pass
8	Field Strength of Spurious Radiation	2.1053 22.917 24.238 27.53(c)	RSS-Gen 6.13 RSS-132 5.5 RSS-133 6.5 RSS-139 6.6	ANNEX A.7	Pass

No.	Description	FCC Part No.	ISED Part No.	Test Result	Verdict
		27.53(g) 27.53(h) 27.53(m)	RSS-199 4.5		
9	Receiver Spurious Emissions	N/A	RSS-Gen 7.1 RSS-132 5.6 RSS-133 6.6	ANNEX A.8	Pass

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Test Voltage of the EUT	NV (Normal Voltage)	3.8 V
	LV (Low Voltage)	3.7 V
	HV (High Voltage)	4.35 V
Test Temperature of the EUT	LT (Low Temperature)	-20 °C
	HT (High Temperature)	50 °C

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Software /Firmware Version	Cal. Date	Cal. Due
Conducted Test System						
Test Software 1	R&S	CMUgo	N/A	V2.0.1	N/A	N/A
Test Software 2	R&S	CMWRun	N/A	V1.8.9	N/A	N/A
Test Software 3	BALUN	BL410R	N/A	V2.1.1.355	N/A	N/A
Universal Radio Communication Tester	R&S	CMU 200	123666	V5.21	2017.11.02	2018.11.01
Wireless Communications Test Set	R&S	CMW 500	102318	V3.2.71	2017.06.12	2018.06.11
Spectrum Analyzer	R&S	FSV-30	103118	2.30.SP1	2017.06.12	2018.06.11
Spectrum Analyzer	AGILENT	E4440A	MY45304434	A.11.21	2017.11.02	2018.11.01
DC Power Supply	R&S	IT6863A	60001401068 7210020	N/A	2017.06.12	2018.06.11
Temperature Chamber	AHK	SP20	1412	N/A	2017.07.20	2018.07.19
Power Sensor	R&S	NRP-Z21	103971	N/A	2017.06.12	2018.06.11
Power Splitter	KMW	DCPD-LDC	1305003215	N/A	N/A	N/A
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	N/A	N/A	N/A
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	N/A	N/A	N/A
Radiated Test System						
Test Software	BALUN	BL410_E	N/A	V16.921	N/A	N/A
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	N/A	2015.07.22	2018.07.21
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	N/A	2015.07.22	2018.07.21
Test Antenna-	SCHWARZBECK	VHBB9124	9124-594	N/A	2015.08.13	2018.08.12

Description	Manufacturer	Model	Serial No.	Software /Firmware Version	Cal. Date	Cal. Due
Biconical	CK					
Test Antenna-LPDA	SCHWARZBE CK	VUSLP9111 B	9111B-091	N/A	2015.08.13	2018.08.12
Test Antenna-Horn(1-18 GHz)	SCHWARZBE CK	BBHA 9120D	9120D-1600	N/A	2016.07.12	2018.07.11
Test Antenna-Horn(18-40 GHz)	A-INFO	LB- 180400KF	J211060273	N/A	2017.01.06	2019.01.05
Anechoic Chamber	EMC Electronic Co., Ltd	20.10m*11. 60m*7.35m	N/A	N/A	2016.08.09	2018.08.08
EMI Receiver	AGILENT	E4440A	MY46181663	A.11.21	2017.11.02	2018.11.01

4.3 Test Configurations

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
E.R.P/E.I. R.P	GSM 850	v	v	v
	GSM 1900	v	v	v
	GPRS 850	v	v	v
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	CDMA BC0	v	v	v
	EVDO BC0	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
	HSUPA Band 2	v	v	v
	HSUPA Band 5	v	v	v
	HSDPA Band 2	v	v	v
	HSDPA Band 5	v	v	v
Peak to Average Ratio	WCDMA Band 2	v	v	v
Occupied Bandwidth	GSM 850	v	v	v
	GSM 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	CDMA BC0	v	v	v
	EVDO BC0	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
Frequency Stability	GSM 850	v	v	v
	GSM 1900	v	v	v
	GPRS 850	v	v	v
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	CDMA BC0	v	v	v
	EVDO BC0	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
Spurious Emission at Antenna Terminals	GSM 850	v	v	v
	GSM 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	CDMA BC0	v	v	v
	EVDO BC0	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
Band Edge	GSM 850	v	--	v
	GSM 1900	v	--	v
	EGPRS 850	v	--	v
	EGPRS 1900	v	--	v
	CDMA BC0	v	--	v
	EVDO BC0	v	--	v
	WCDMA Band 2	v	--	v
	WCDMA Band 5	v	--	v
Field Strength of Spurious Radiation	GSM 850	v	v	v
	GSM 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	CDMA BC0	v	v	v
	EVDO BC0	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
Receiver Spurious Emissions	GSM 850	v	v	v
	GSM 1900	--	--	--
	EGPRS 850	--	--	--
	EGPRS 1900	--	--	--
	CDMA BC0	--	--	--
	EVDO BC0	--	--	--
	WCDMA Band 2	--	--	--
	WCDMA Band 5	--	--	--

Note 1: The mark "v" means that this configuration is chosen for testing.

LTE Band	Bandwidth (MHz)						Modulation		RB#			Test Channel		
	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
E.R.P/E.I.R.P														
2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
5	v	v	v	v	n	n	v	v	v	v	v	v	v	v
7	n	n	v	v	v	v	v	v	v	v	v	v	v	v
17	n	n	v	v	n	n	v	v	v	v	v	v	v	v
41	n	n	v	v	v	v	v	v	v	v	v	v	v	v
Peak to Average Ratio														
2	--	--	--	--	--	v	v	v	v	--	v	v	v	v
4	--	--	--	--	--	v	v	v	v	--	v	v	v	v
5	--	--	--	v	n	n	v	v	v	--	v	v	v	v
7	n	n	--	--	--	v	v	v	v	--	v	v	v	v
17	n	n	--	v	n	n	v	v	v	--	v	v	v	v
41	n	n	--	--	--	v	v	v	v	--	v	v	v	v
Occupied Bandwidth														
2	v	v	v	v	v	v	v	v	--	--	v	v	v	v
4	v	v	v	v	v	v	v	v	--	--	v	v	v	v
5	v	v	v	v	n	n	v	v	--	--	v	v	v	v
7	n	n	v	v	v	v	v	v	--	--	v	v	v	v
17	n	n	v	v	n	n	v	v	--	--	v	v	v	v
41	n	n	v	v	v	v	v	v	--	--	v	v	v	v
Frequency Stability														
2	--	--	--	v	--	--	v	v	--	--	v	--	v	--
4	--	--	--	v	--	--	v	v	--	--	v	--	v	--
5	--	--	--	v	n	n	v	v	--	--	v	--	v	--
7	n	n	--	v	--	--	v	v	--	--	v	--	v	--
17	n	n	--	v	n	n	v	v	--	--	v	--	v	--
41	n	n	--	v	--	--	v	v	--	--	v	--	v	--
Spurious Emission at Antenna Terminals														
2	v	v	v	v	v	v	v	v	v	--	--	v	v	v
4	v	v	v	v	v	v	v	v	v	--	--	v	v	v
5	v	v	v	v	n	n	v	v	v	--	--	v	v	v
7	n	n	v	v	v	v	v	v	v	--	--	v	v	v
17	n	n	v	v	n	n	v	v	v	--	--	v	v	v
41	n	n	v	v	v	v	v	v	v	--	--	v	v	v
Band Edge														
2	v	v	v	v	v	v	v	v	v	--	v	v	--	v
4	v	v	v	v	v	v	v	v	v	--	v	v	--	v
5	v	v	v	v	n	n	v	v	v	--	v	v	--	v
7	n	n	v	v	v	v	v	v	v	--	v	v	--	v
17	n	n	v	v	n	n	v	v	v	--	v	v	--	v
41	n	n	v	v	v	v	v	v	v	--	v	v	--	v

LTE Band	Bandwidth (MHz)						Modulation		RB#			Test Channel		
	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
Field Strength of Spurious Radiation														
2	v	v	v	v	v	v	v	--	v	--	--	--	v	--
4	v	v	v	v	v	v	v	--	v	--	--	--	v	--
5	v	v	v	v	n	n	v	--	v	--	--	--	v	--
7	n	n	v	v	v	v	v	--	v	--	--	--	v	--
17	n	n	v	v	n	n	v	--	v	--	--	--	v	--
41	n	n	v	v	v	v	v	--	v	--	--	--	v	--

Note 1: The mark “v” means that this configuration is chosen for testing.

Note 2: The mark “n” means that this bandwidth is not supported.

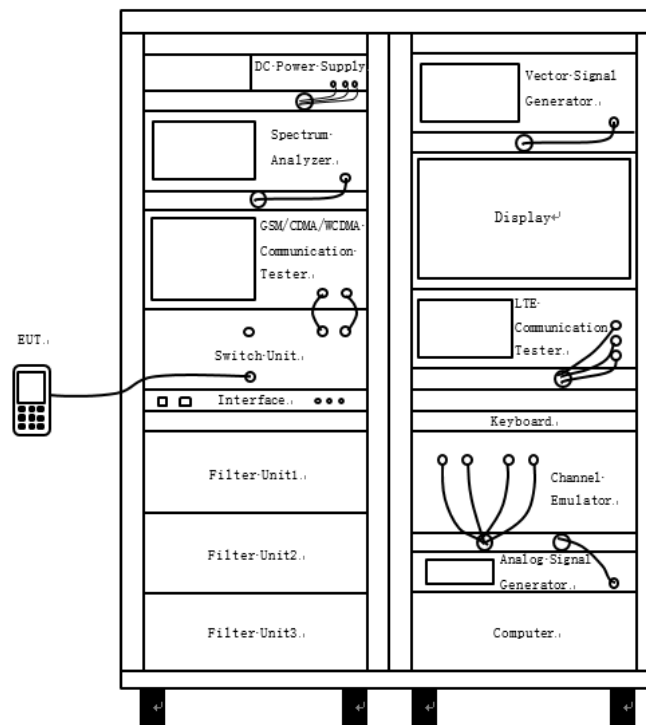
Test Mode	UL Channel	UL Channel No.	UL Frequency (MHz)
GSM/GPRS/EGPRS 850	LCH	128	824.2
	MCH	190	836.6
	HCH	251	848.8
GSM/GPRS/EGPRS 1900	LCH	512	1850.2
	MCH	661	1880.0
	HCH	810	1909.8
WCDMA Band 2	LCH	9262	1852.4
	MCH	9400	1880.0
	HCH	9538	1907.6
WCDMA Band 5	LCH	4132	826.4
	MCH	4182	836.4
	HCH	4233	846.6
CDMA/EVDO BC0	LCH	1013	824.70
	MCH	384	836.52
	HCH	777	848.31

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 2	Low Range	1.4	18607	1850.7
		3	18615	1851.5
		5	18625	1852.5
		10	18650	1855
		15	18675	1857.5
		20	18700	1860
	Mid Range	1.4/3/5/10/15/20	18900	1880
	High Range	1.4	19193	1909.3
		3	19185	1908.5
		5	19175	1907.5
		10	19150	1905
		15	19125	1902.5
		20	19100	1900
LTE Band 4	Low Range	1.4	19957	1710.7
		3	19965	1711.5
		5	19975	1712.5
		10	20000	1715
		15	20025	1717.5
		20	20050	1720
	Mid Range	1.4/3/5/10/15/20	20175	1732.5
	High Range	1.4	20393	1754.3
		3	20385	1753.5
		5	20375	1752.5
		10	20350	1750
		15	20325	1747.5
		20	20300	1745
LTE Band 5	Low Range	1.4	20407	824.7
		3	20415	825.5
		5	20425	826.5
		10	20450	829
	Mid Range	1.4/3/5/10	20525	836.5
	High Range	1.4	20643	848.3
		3	20635	847.5
		5	20625	846.5
		10	20600	844
LTE Band 7	Low Range	5	20775	2502.5
		10	20800	2505
		15	20825	2507.5
		20	20850	2510
	Mid Range	5/10/15/20	21100	2535
	High Range	5	21425	2567.5
		10	21400	2565

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
		15	21375	2562.5
		20	21350	2560
LTE Band 17	Low Range	5	23755	706.5
		10	23780	709
	Mid Range	5/10	23790	710
	High Range	5	23825	713.5
		10	23800	711
LTE Band 41	Low Range	5	40265	2557.5
		10	40290	2560
		15	40315	2562.5
		20	40340	2565
	Mid Range	5/10/15/20	40740	2605
	High Range	5	41215	2652.5
		10	41190	2650
		15	41165	2647.5
		20	41140	2645

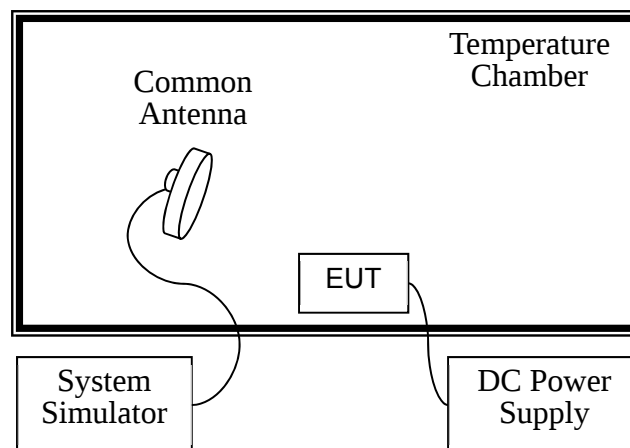
4.4 Test Setup

4.4.1 For Antenna Port Test



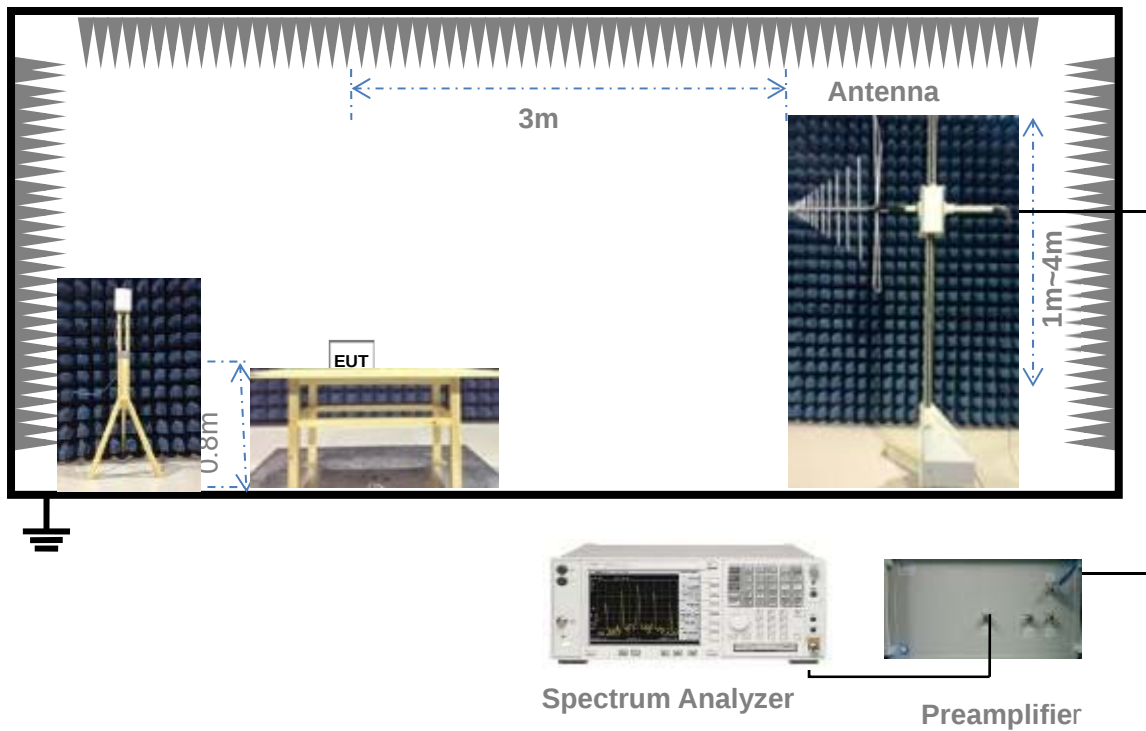
(Diagram 1)

4.4.2 For Frequency Stability Test



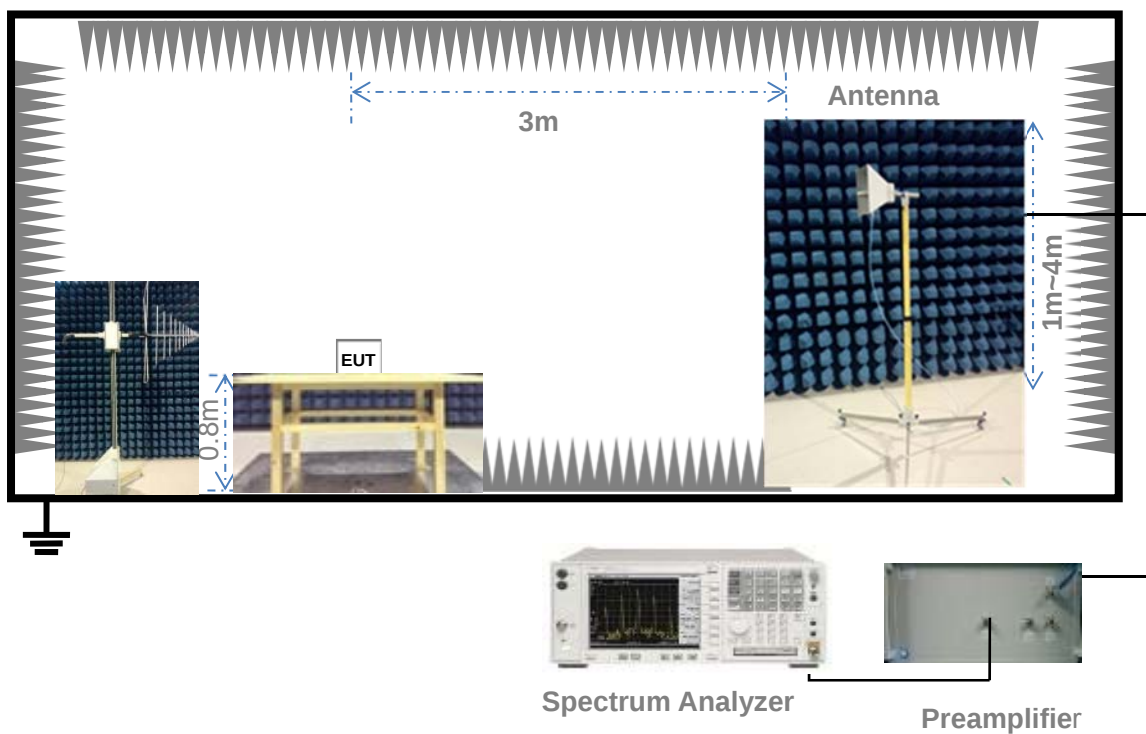
(Diagram 2)

4.4.3 For Radiated Test (30 MHz-1 GHz)



(Diagram 3)

4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

5 TEST ITEMS

5.1 Transmitter Radiated Power (EIRP/ERP)

5.1.1 Limit

FCC § 2.1046(a) & 22.913(a) & 24.232(c) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h)

According to FCC section 22.913(a) (2), the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 24.232(c), Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50(b) (10), portable stations (hand-held devices) transmitting in the 746-757MHz, 776-788MHz, and 805-806MHz bands are limited to 3 watts ERP.

FCC section 27.50(c) (10), portable stations (hand-held devices) in the 698-746MHz band are limited to 3 watts ERP.

FCC section 27.50(d) (4), Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(7) Fixed, mobile, and portable (hand-held) stations operating in the 2000-2020 MHz band are limited to 2 watts EIRP.

And FCC section 27.50(h) (2), for mobile and other user stations, mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

RSS-132 § 5.4 & RSS-133 § 6.4 & RSS-139 § 6.5 & RSS-199 § 4.4

According to RSS-132 § 5.4, the Effective Radiated Power (ERP) for mobile equipment shall not exceed 11.5 watts.

According to RSS-133 § 6.4 (SRSP 510), mobile stations and hand-held portables are limited to 2 watts maximum EIRP.

According to RSS-139 § 6.5, the EIRP for mobile and portable transmitters shall not exceed 1 watt.

According to RSS-199 § 4.4, for mobile subscriber equipment, the EIRP shall not exceed 2 watts.

5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

Description of the Conducted Output Power Measurement

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. A system simulator is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

Note: Reference test setup 4.4.1 (Diagram 1)

The relevant equation for determining the conducted measured value is:

$$\text{Conducted Output Power Value (dBm)} = \text{Measured Value (dBm)} + \text{Path Loss (dB)}$$

where:

Conducted Output Power Value = final conducted measured value in the conducted power test, in dBm;

Measured Value = measured conducted power received by spectrum analyzer or power meter, in dBm;

Path Loss = signal attenuation in the connecting cable between the transmitter and spectrum analyzer or power meter, including external cable loss, in dB;

During the test, the data of Path Loss (dB) is added in the spectrum analyzer or power meter, so Measured Value (dBm) is the final values which contains the data of Path Loss (dB).

For example:

In the conducted output power test, when measured value for GSM850 is 24.7 dBm, and path loss is 8.5 dB, then final conducted output power value is:

$$\text{Conducted Output Power Value (dBm)} = 24.7 \text{ dBm} + 8.5 \text{ dB} = 33.2 \text{ dBm}$$

Description of the Transmitter Radiated Power Measurement

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (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 determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

Final measurement calculation as below:

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP/EIRP} = P_{\text{Meas}} + \text{GT} - \text{LC}$$

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

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

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

dBd (ERP)=dBi (EIRP) -2.15 dB

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

For example:

In the ERP test, when P_{Meas} value for GSM850 is 33.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final ERP value is:

ERP for GSM 850 = 33.2 dBm - 3.4 dBi - 0.6 dB = 29.2 dBm

Note: Reference test setup 4.4.1 (Diagram 1)

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

ERP/EIRP (dBm) = SA Read Value (dBm) + Correction Factor (dB)

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

ERP (dBm) = 21dBm + 8dB = 29dBm

Note: Reference test setup 4.4.3 and 4.4.4 (Diagram 3, 4)

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Peak to average ratio

5.2.1 Limit

FCC § 2.1046 & 24.232(d) & 27.50(d)

RSS-132 § 5.4 & RSS-133 § 6.4 & RSS-139 § 6.5 & RSS-199 § 4.4

In addition, when the transmitter power is measured in terms of average value, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

According to FCC section 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 24.232 (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.

For FCC section 24.232(e), peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

According to FCC section 27.50(d), in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

5.2.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Here the lowest, middle and highest channels are selected to perform testing to verify the peak-to-average ratio.

According to KDB 971168 D01, there is CCDF procedure for PAPR:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
 - 1) for continuous transmissions, set to 1 ms,
 - 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

e) Record the maximum PAPR level associated with a probability of 0.1%.

Alternate procedure for PAPR:

Use one of the procedures presented in 4.1 to measure the total peak power and record as P_{Pk} . Use one of the applicable procedures presented 4.2 to measure the total average power and record as P_{Avg} . Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$PAPR (dB) = P_{Pk} (dBm) - P_{Avg} (dBm).$$

Note: Reference test setup 4.4.1 (Diagram 1).

5.2.4 Test Result

Please refer to ANNEX A.2.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC § 2.1049

RSS-Gen § 6.6

The occupied bandwidth 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.

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated by at least X dB below the transmitter power, where the value of X is typically specified as 26.

5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The following procedure shall be used for measuring power bandwidth.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the anticipated OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least $10\log(\text{OBW} / \text{RBW})$ below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) For -26 dB OBW, the dynamic range of the spectrum analyzer at the selected RBW shall be at least 10dB below the target “-X dB down” requirement, e.g. -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be 36dB below the reference value.
- f) Set the detection mode to peak, and the trace mode to max hold.
- g) For 99% OBW, use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.

h) For -26 dB OBW, determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

Determine the “-X dB down amplitude” as equal to (reference value -X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below “-X dB down amplitude” determined in step g). If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

i) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

j) Change variable modulations, coding, or channel bandwidth settings, then repeat above test procedures.

Note: Reference test setup 4.4.1 (Diagram 1).

5.3.4 Test Result

Please refer to ANNEX A.3.

5.4 Frequency Stability

5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235 & 27.54

RSS-Gen § 6.11 & RSS-132 § 5.3 & RSS-133 § 6.3 & RSS-139 § 6.4 & RSS-199 § 4.3

FCC § 2.1055

The frequency stability shall be measured with variation of ambient temperature as follows:

- (1) The temperature is varied from -30°C to +50°C.
- (2) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10°C through the range.

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating and point which shall be specified by the manufacture.
- (3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

FCC § 22.355

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1—Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency range (MHz)	Base, fixed (ppm)	Mobile > 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10.0	n/a	n/a

FCC § 24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

FCC § 27.54

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

5.4.2 Test Setup

The section 4.4.2 (Diagram 2) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

1. The EUT is placed in a temperature chamber.
2. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured.
3. The temperature is increased by not more than 10 degrees, allowed to stabilize and soak, and then repeat the frequency error measurement.
4. Repeat procedure 3 until +50°C is reached.
5. Change supply voltage, and repeat measurement until extreme voltage is reached.

Note: Reference test setup 4.4.2 (Diagram 2).

5.4.4 Test Result

Please refer to ANNEX A.4.

5.5 Spurious Emission at Antenna Terminals

5.5.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(c) & 27.53(g) & 27.53(h) & 27.53(m)

RSS-Gen § 6.13 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6

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.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This is calculated to be -13 dBm.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

FCC § 27.53(m) (4)

RSS-199 § 4.5

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

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.

5.5.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency blocks a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 50Ω ; the path loss as the factor is calibrated to correct the reading.
2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
4. Spurious emissions are tested with 0.001 MHz RBW for frequency less than 150 kHz, 0.01 MHz RBW for frequency less than 30 MHz, 0.1 MHz RBW for frequency less than 1 GHz, and 1 MHz RBW for frequency above 1 GHz. And sweep point number are at least 401 , referring to following formula.

Sweep point number = Span/RBW

VBW=3*RBW

Detector Mode=mean or average power

5. Record the frequencies and levels of spurious emissions.

Note: Reference test setup 4.4.1 (Diagram 1).

5.5.4 Test Result

Please refer to ANNEX A.5.

5.6 Band Edge

5.6.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(c) & 27.53(g) & 27.53(h) & 27.53(m)

RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6

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.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917 & 24.238

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This is calculated to be -13 dBm.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the

power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

FCC § 27.53(m) (4)

RSS-199 § 4.5

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

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.

5.6.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.
2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
4. The center of the spectrum analyzer was set to block edge frequency.
5. Band edge are tested with $1\% \times \text{cBW}$ (RBW), and sweep point number referred to following formula.

$$\text{Sweep point number} = 2 \times \text{Span} / \text{RBW}$$

$$\text{VBW} = 3 \text{RBW}$$

6. Record the frequencies and levels of spurious emissions.

Note: Reference test setup 4.4.1 (Diagram 1).

5.6.4 Test Result

Please refer to ANNEX A.6.

5.7 Field Strength of Spurious Radiation

5.7.1 Limit

FCC § 2.1053 & 22.917(a) & 24.238(a) & 27.53(c) & 27.53(g) & 27.53(h) & 27.53(m)

RSS-Gen § 6.13 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This is calculated to be -13 dBm.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

FCC § 27.53(m) (4)

RSS-199 § 4.5

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40+10\log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43+10\log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55+10\log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

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.

5.7.2 Test Setup

The section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

1. On a test site, the EUT shall be placed at 80 cm height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. During the measurement of the EUT, the resolution bandwidth was to 1 MHz and the average bandwidth was set to 1 MHz.
5. The transmitter shall be switched on; the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.
7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. The EUT was replaced by half-wave dipole ($824 \sim 849$ MHz) or horn antenna ($1\,850 \sim 1\,910$ MHz) connected to a signal generator.
11. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.

14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

Final measurement calculation as below:

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

$$\text{ERP/EIRP (dBm)} = \text{SA Read Value (dBm)} + \text{Correction Factor (dB)}$$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

$$\text{ERP (dBm)} = 21\text{dBm} + 8\text{dB} = 29\text{dBm}$$

Note: Reference test setup 4.4.3 and 4.4.4 (Diagram 3, 4)

5.7.4 Test Result

Please refer to ANNEX A.7.

5.8 Receiver Spurious Emissions

RSS-Gen § 7.1 & RSS-132 § 5.6 & RSS-133 § 6.6

For emissions at frequencies below 1 GHz, measurements shall be performed using a CISPR quasi-peak detector and the related measurement bandwidth. At frequencies above 1 GHz, measurements shall be performed using a linear average detector with a minimum resolution bandwidth of 1 MHz.

As an alternative to CISPR quasi-peak or average measurements, compliance with the emission limit can be demonstrated using measuring equipment employing a peak detector function properly adjusted for factors such as pulse desensitization, as required, with a measurement bandwidth equal to, or greater than, the applicable CISPR quasi-peak bandwidth or 1 MHz bandwidth, respectively.

Receiver Radiated Limits

Radiated emission measurements shall be performed with the receiver antenna connected to the receiver antenna terminals. The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 5x the highest tunable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.

Spurious emissions from receivers shall not exceed the radiated limits shown in Table 2 below:

Table 2 – Receiver Radiated Limits

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ at 3 metres)
30-88	100
88-216	150
216-960	200
Above 960	500

Receiver Conducted Limits

If the receiver has a detachable antenna of known impedance, an antenna-conducted spurious emissions measurement is permitted as an alternative to radiated measurement. However, the radiated method is preferred.

The antenna-conducted test shall be performed with the antenna disconnected and with the receiver antenna terminals connected to a measuring instrument having equal impedance to that specified for the antenna.

The receiver-spurious emissions measured at the antenna terminals by the antenna-conducted method shall then comply with the following limits:

Receiver-spurious emissions at any discrete frequency shall not exceed 2 nW in the band 30-1000 MHz, nor 5 nW above 1000 MHz.

ANNEX A TEST RESULTS

A.1 Transmitter Radiated Power (EIRP/ERP)

A.1.1 Conducted Output Power

GSM Mode Test Data

Test Band	Test Channel	PCL	Conducted Output Peak Power (dBm)	Conducted Output Peak Power (W)
GSM 850	LCH	5	32.23	1.67
	MCH	5	32.39	1.73
	HCH	5	32.30	1.70
GPRS 850	LCH	5	32.32	1.71
	MCH	5	32.46	1.76
	HCH	5	32.49	1.77
EGPRS 850	LCH	8	29.02	0.80
	MCH	8	29.20	0.83
	HCH	8	29.24	0.84

Test Band	Test Channel	PCL	Conducted Output Peak Power (dBm)	Conducted Output Peak Power (W)
GSM 1900	LCH	0	30.03	1.01
	MCH	0	29.76	0.95
	HCH	0	29.58	0.91
GPRS 1900	LCH	0	30.02	1.00
	MCH	0	29.80	0.95
	HCH	0	29.58	0.91
EGPRS 1900	LCH	2	28.45	0.70
	MCH	2	28.21	0.66
	HCH	2	28.02	0.63

Note 1: For the GPRS and EGPRS mode, all the slots were tested and just the worst data were recorded in this table.

Note 2: Set PCL to 5 for GSM/GPRS 850 (power class 4) and 0 for GSM/GPRS 1900 (power class 1). Set PCL to 8 for EGPRS850 (power class E2) and 2 for EGPRS1900 (power class E2).

GPRS Conducted Output Power

Band	Channel	Conducted Output Peak Power							
		Slot 1 (dBm)	Slot 1 (W)	Slot 2 (dBm)	Slot 2 (W)	Slot 3 (dBm)	Slot 3 (W)	Slot 4 (dBm)	Slot 4 (W)
GPRS 850	LCH	32.32	1.71	31.23	1.33	30.04	1.01	28.88	0.77
	MCH	32.46	1.76	31.36	1.37	30.16	1.04	29.09	0.81
	HCH	32.49	1.77	31.44	1.39	30.24	1.06	29.09	0.81
GPRS 1900	LCH	30.02	1.00	29.40	0.87	28.22	0.66	26.98	0.50
	MCH	29.80	0.95	29.22	0.84	28.02	0.63	26.79	0.48
	HCH	29.58	0.91	29.04	0.80	27.79	0.60	26.79	0.48

EGPRS Conducted Output Power

Band	Channel	Conducted Output Peak Power							
		Slot 1 (dBm)	Slot 1 (W)	Slot 2 (dBm)	Slot 2 (W)	Slot 3 (dBm)	Slot 3 (W)	Slot 4 (dBm)	Slot 4 (W)
EGPRS 850	LCH	29.02	0.80	27.85	0.61	26.69	0.47	25.49	0.35
	MCH	29.20	0.83	27.88	0.61	26.60	0.46	25.43	0.35
	HCH	29.24	0.84	27.92	0.62	26.53	0.45	25.51	0.36
EGPRS 1900	LCH	28.45	0.70	27.23	0.53	26.10	0.41	24.95	0.31
	MCH	28.21	0.66	26.93	0.49	25.68	0.37	24.57	0.29
	HCH	28.02	0.63	26.79	0.48	25.46	0.35	24.24	0.27

WCDMA Mode Test Data:

Test Band	Test Channel	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
WCDMA Band 2	LCH	22.17	0.16
	MCH	22.15	0.16
	HCH	22.15	0.16
HSDPA Band 2	LCH	21.41	0.14
	MCH	21.27	0.13
	HCH	21.30	0.13
HSUPA Band 2	LCH	21.52	0.14
	MCH	21.28	0.13
	HCH	21.25	0.13

Test Band	Test Channel	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
WCDMA Band 5	LCH	22.45	0.18
	MCH	22.36	0.17
	HCH	22.38	0.17
HSDPA Band 5	LCH	21.70	0.15
	MCH	21.53	0.14
	HCH	21.48	0.14
HSUPA Band 5	LCH	21.26	0.13
	MCH	21.34	0.14
	HCH	21.50	0.14

Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this table.

HSDPA Conducted Output Power

Band	Channel	Conducted Output Average Power							
		Subtest1		Subtest2		Subtest3		Subtest4	
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
HSDPA Band 2	LCH	21.3	0.13	21.41	0.14	20.91	0.12	20.91	0.12
	MCH	21.27	0.13	21.27	0.13	20.8	0.12	20.61	0.12
	HCH	21.22	0.13	21.3	0.13	20.83	0.12	20.84	0.12
HSDPA Band 5	LCH	21.3	0.13	21.41	0.14	20.91	0.12	20.91	0.12
	MCH	21.27	0.13	21.27	0.13	20.8	0.12	20.61	0.12
	HCH	21.22	0.13	21.3	0.13	20.83	0.12	20.84	0.12

HSUPA Conducted Output Power

Band	Channel	Conducted Output Average Power									
		Subtest1		Subtest2		Subtest3		Subtest4		Subtest5	
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
HSUPA Band 2	LCH	21.52	0.14	19.48	0.09	20.43	0.11	19.36	0.09	21.34	0.14
	MCH	21.28	0.13	19.25	0.08	20.11	0.10	19.3	0.09	20.96	0.12
	HCH	21.25	0.13	19.23	0.08	20.27	0.11	19.28	0.08	21.17	0.13
HSUPA Band 5	LCH	21.52	0.14	19.48	0.09	20.43	0.11	19.36	0.09	21.34	0.14
	MCH	21.28	0.13	19.25	0.08	20.11	0.10	19.3	0.09	20.96	0.12
	HCH	21.25	0.13	19.23	0.08	20.27	0.11	19.28	0.08	21.17	0.13

CDMA/EVDO Mode Test Data:

Test Band	Test Configuration	UL Channel	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
EVDO BC0	Release 0	LCH	23.43	0.22
		MCH	23.56	0.23
		HCH	23.47	0.22
	Revision A	LCH	23.63	0.23
		MCH	24.21	0.26
		HCH	23.61	0.23

Test Band	Test Configuration	UL Channel	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
CDMA BC0	F1R1	LCH	23.96	0.25
		MCH	24.2	0.26
		HCH	23.69	0.23
	F3R3	LCH	23.91	0.25
		MCH	24.07	0.26
		HCH	23.69	0.23

LTE Mode Test Data:

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
1.4 MHz	LCH	QPSK	RB1#0	22.54	0.18
			RB1#3	22.58	0.18
			RB1#5	22.43	0.17
			RB3#0	22.47	0.18
			RB3#2	22.56	0.18
			RB3#3	22.46	0.18
			RB6#0	21.57	0.14
		16-QAM	RB1#0	21.5	0.14
			RB1#3	21.76	0.15
			RB1#5	21.71	0.15
			RB3#0	21.51	0.14
			RB3#2	21.5	0.14
			RB3#3	21.63	0.15
			RB6#0	20.82	0.12
	MCH	QPSK	RB1#0	22.25	0.17
			RB1#3	22.2	0.17
			RB1#5	22.02	0.16

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB3#0	22.06	0.16
			RB3#2	22.09	0.16
			RB3#3	22.12	0.16
			RB6#0	21.27	0.13
		16-QAM	RB1#0	21.53	0.14
			RB1#3	21.61	0.14
			RB1#5	21.09	0.13
			RB3#0	20.91	0.12
			RB3#2	20.82	0.12
			RB3#3	20.74	0.12
			RB6#0	20.14	0.10
	HCH	QPSK	RB1#0	22.32	0.17
			RB1#3	22.69	0.19
			RB1#5	22.58	0.18
			RB3#0	22.31	0.17
			RB3#2	22.55	0.18
			RB3#3	22.61	0.18
			RB6#0	21.28	0.13
		16-QAM	RB1#0	21.4	0.14
			RB1#3	21.4	0.14
			RB1#5	21.4	0.14
			RB3#0	21.65	0.15
			RB3#2	21.55	0.14
			RB3#3	21.46	0.14
			RB6#0	20.44	0.11
3 MHz	LCH	QPSK	RB1#0	22.56	0.18
			RB1#7	22.44	0.18
			RB1#14	22.56	0.18
			RB8#0	21.62	0.15
			RB8#4	21.53	0.14
			RB8#7	21.56	0.14
			RB15#0	21.62	0.15
		16-QAM	RB1#0	21	0.13
			RB1#7	20.97	0.13
			RB1#14	21	0.13
			RB8#0	20.41	0.11
			RB8#4	20.42	0.11
			RB8#7	20.34	0.11
			RB15#0	20.62	0.12

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
	MCH	QPSK	RB1#0	22.12	0.16
			RB1#7	22.12	0.16
			RB1#14	22.22	0.17
			RB8#0	21.38	0.14
			RB8#4	21.38	0.14
			RB8#7	21.28	0.13
			RB15#0	21.37	0.14
		16-QAM	RB1#0	21.16	0.13
			RB1#7	21.16	0.13
			RB1#14	21.43	0.14
			RB8#0	20.29	0.11
			RB8#4	20.4	0.11
			RB8#7	20.37	0.11
			RB15#0	20.4	0.11
	HCH	QPSK	RB1#0	22.34	0.17
			RB1#7	22.28	0.17
			RB1#14	22.24	0.17
			RB8#0	21.31	0.14
			RB8#4	21.32	0.14
			RB8#7	21.34	0.14
			RB15#0	21.36	0.14
		16-QAM	RB1#0	21.45	0.14
			RB1#7	21.39	0.14
			RB1#14	21.37	0.14
			RB8#0	20.12	0.10
			RB8#4	20.22	0.11
			RB8#7	20.19	0.10
			RB15#0	20.5	0.11
5 MHz	LCH	QPSK	RB1#0	22.51	0.18
			RB1#13	22.53	0.18
			RB1#24	22.38	0.17
			RB12#0	21.62	0.15
			RB12#6	21.53	0.14
			RB12#13	21.53	0.14
			RB25#0	21.59	0.14
			RB1#0	21.2	0.13
		16-QAM	RB1#13	21.2	0.13
			RB1#24	20.99	0.13
			RB12#0	20.46	0.11

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB12#6	20.45	0.11
			RB12#13	20.35	0.11
			RB25#0	20.85	0.12
	MCH	QPSK	RB1#0	22.36	0.17
			RB1#13	22.31	0.17
			RB1#24	22.36	0.17
			RB12#0	21.37	0.14
			RB12#6	21.44	0.14
			RB12#13	21.36	0.14
			RB25#0	21.37	0.14
		16-QAM	RB1#0	21.28	0.13
			RB1#13	21.53	0.14
			RB1#24	21.56	0.14
			RB12#0	20.25	0.11
			RB12#6	20.24	0.11
			RB12#13	20.26	0.11
			RB25#0	20.4	0.11
	HCH	QPSK	RB1#0	22.48	0.18
			RB1#13	22.51	0.18
			RB1#24	22.11	0.16
			RB12#0	21.43	0.14
			RB12#6	21.39	0.14
			RB12#13	21.36	0.14
			RB25#0	21.37	0.14
		16-QAM	RB1#0	20.99	0.13
			RB1#13	21.25	0.13
			RB1#24	21.2	0.13
			RB12#0	20.52	0.11
			RB12#6	20.39	0.11
			RB12#13	20.38	0.11
			RB25#0	20.55	0.11
10 MHz	LCH	QPSK	RB1#0	22.6	0.18
			RB1#25	22.36	0.17
			RB1#49	22.27	0.17
			RB25#0	21.71	0.15
			RB25#13	21.58	0.14
			RB25#25	21.5	0.14
			RB50#0	21.59	0.14
		16-QAM	RB1#0	21.67	0.15

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB1#25	21.98	0.16
			RB1#49	21.33	0.14
			RB25#0	20.69	0.12
			RB25#13	20.5	0.11
			RB25#25	20.44	0.11
			RB50#0	20.58	0.11
	MCH	QPSK	RB1#0	22.35	0.17
			RB1#25	22.29	0.17
			RB1#49	22.37	0.17
			RB25#0	21.41	0.14
			RB25#13	21.49	0.14
			RB25#25	21.43	0.14
		16-QAM	RB50#0	21.44	0.14
			RB1#0	21.44	0.14
			RB1#25	21.3	0.13
			RB1#49	21.48	0.14
			RB25#0	20.53	0.11
			RB25#13	20.5	0.11
			RB25#25	20.54	0.11
			RB50#0	20.3	0.11
	HCH	QPSK	RB1#0	22.22	0.17
			RB1#25	22.48	0.18
			RB1#49	22.16	0.16
			RB25#0	21.43	0.14
			RB25#13	21.39	0.14
			RB25#25	21.41	0.14
		16-QAM	RB50#0	21.47	0.14
			RB1#0	21.68	0.15
			RB1#25	21.47	0.14
			RB1#49	20.95	0.12
			RB25#0	20.57	0.11
			RB25#13	20.53	0.11
			RB25#25	20.46	0.11
			RB50#0	20.41	0.11
15 MHz	LCH	QPSK	RB1#0	22.6	0.18
			RB1#38	22.23	0.17
			RB1#74	22.58	0.18
			RB36#0	21.4	0.14
			RB36#19	21.41	0.14

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB36#39	21.51	0.14
			RB75#0	21.52	0.14
		16-QAM	RB1#0	22.21	0.17
			RB1#38	22.04	0.16
			RB1#74	21.43	0.14
			RB36#0	20.44	0.11
			RB36#19	20.34	0.11
			RB36#39	20.4	0.11
			RB75#0	20.48	0.11
	MCH	QPSK	RB1#0	22.17	0.16
			RB1#38	22.04	0.16
			RB1#74	22.24	0.17
			RB36#0	21.38	0.14
			RB36#19	21.32	0.14
			RB36#39	21.4	0.14
			RB75#0	21.37	0.14
		16-QAM	RB1#0	21.34	0.14
			RB1#38	21.11	0.13
			RB1#74	21.12	0.13
			RB36#0	20.4	0.11
			RB36#19	20.39	0.11
			RB36#39	20.4	0.11
			RB75#0	20.25	0.11
	HCH	QPSK	RB1#0	22.41	0.17
			RB1#38	22.26	0.17
			RB1#74	22.02	0.16
			RB36#0	21.4	0.14
			RB36#19	21.43	0.14
			RB36#39	21.45	0.14
			RB75#0	21.41	0.14
		16-QAM	RB1#0	21.57	0.14
			RB1#38	21.87	0.15
			RB1#74	22.44	0.18
			RB36#0	20.34	0.11
			RB36#19	20.36	0.11
			RB36#39	20.43	0.11
			RB75#0	20.47	0.11
20 MHz	LCH	QPSK	RB1#0	22.58	0.18
			RB1#50	22.37	0.17

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB1#99	22.18	0.17
			RB50#0	21.42	0.14
			RB50#25	21.47	0.14
			RB50#50	21.49	0.14
			RB100#0	21.47	0.14
		16-QAM	RB1#0	21.07	0.13
			RB1#50	21.7	0.15
			RB1#99	21.12	0.13
			RB50#0	20.49	0.11
			RB50#25	20.53	0.11
			RB50#50	20.5	0.11
			RB100#0	20.54	0.11
	MCH	QPSK	RB1#0	22.77	0.19
			RB1#50	22.7	0.19
			RB1#99	22.61	0.18
			RB50#0	21.49	0.14
			RB50#25	21.4	0.14
			RB50#50	21.44	0.14
			RB100#0	21.44	0.14
		16-QAM	RB1#0	21.26	0.13
			RB1#50	21.39	0.14
			RB1#99	21.37	0.14
			RB50#0	20.27	0.11
			RB50#25	20.4	0.11
			RB50#50	20.46	0.11
			RB100#0	20.45	0.11
	HCH	QPSK	RB1#0	22.37	0.17
			RB1#50	22.47	0.18
			RB1#99	22.12	0.16
			RB50#0	21.35	0.14
			RB50#25	21.35	0.14
			RB50#50	21.46	0.14
			RB100#0	21.4	0.14
		16-QAM	RB1#0	21.28	0.13
			RB1#50	21.3	0.13
			RB1#99	20.97	0.13
		16-QAM	RB50#0	20.36	0.11
			RB50#25	20.36	0.11
			RB50#50	20.42	0.11

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB100#0	20.36	0.11

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
1.4 MHz	LCH	QPSK	RB1#0	23.39	0.22
			RB1#3	23.3	0.21
			RB1#5	23.14	0.21
			RB3#0	23.21	0.21
			RB3#2	23.24	0.21
			RB3#3	23.3	0.21
			RB6#0	22.17	0.16
		16-QAM	RB1#0	22.4	0.17
			RB1#3	22.46	0.18
			RB1#5	22.32	0.17
			RB3#0	22.19	0.17
			RB3#2	22.23	0.17
			RB3#3	22.19	0.17
			RB6#0	21.15	0.13
	MCH	QPSK	RB1#0	23.54	0.23
			RB1#3	23.69	0.23
			RB1#5	23.45	0.22
			RB3#0	23.46	0.22
			RB3#2	23.62	0.23
			RB3#3	23.57	0.23
			RB6#0	22.54	0.18
		16-QAM	RB1#0	22.51	0.18
			RB1#3	22.57	0.18
			RB1#5	22.1	0.16
			RB3#0	22.28	0.17
			RB3#2	22.34	0.17
			RB3#3	22.43	0.17
			RB6#0	21.23	0.13
	HCH	QPSK	RB1#0	23.23	0.21
			RB1#3	23.49	0.22
			RB1#5	23.5	0.22
			RB3#0	23.45	0.22
			RB3#2	23.47	0.22
			RB3#3	23.42	0.22
			RB6#0	22.39	0.17
		16-QAM	RB1#0	22.3	0.17
			RB1#3	22.4	0.17
			RB1#5	22.3	0.17
			RB3#0	22.41	0.17

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
3 MHz			RB3#2	22.63	0.18
			RB3#3	22.69	0.19
			RB6#0	21.72	0.15
	LCH	QPSK	RB1#0	23.14	0.21
			RB1#7	23.3	0.21
			RB1#14	23.07	0.20
			RB8#0	22.26	0.17
			RB8#4	22.23	0.17
			RB8#7	22.11	0.16
			RB15#0	22.14	0.16
		16-QAM	RB1#0	22.26	0.17
			RB1#7	22.21	0.17
			RB1#14	22.12	0.16
			RB8#0	21.51	0.14
			RB8#4	21.56	0.14
			RB8#7	21.55	0.14
			RB15#0	21.28	0.13
	MCH	QPSK	RB1#0	23.56	0.23
			RB1#7	23.55	0.23
			RB1#14	23.62	0.23
			RB8#0	22.62	0.18
			RB8#4	22.52	0.18
			RB8#7	22.58	0.18
			RB15#0	22.53	0.18
		16-QAM	RB1#0	23.16	0.21
			RB1#7	23.13	0.21
			RB1#14	23.13	0.21
			RB8#0	21.55	0.14
			RB8#4	21.57	0.14
			RB8#7	21.53	0.14
			RB15#0	21.64	0.15
	HCH	QPSK	RB1#0	23.14	0.21
			RB1#7	23.2	0.21
			RB1#14	23.2	0.21
			RB8#0	22.33	0.17
			RB8#4	22.33	0.17
			RB8#7	22.31	0.17
			RB15#0	22.34	0.17
		16-QAM	RB1#0	22.11	0.16

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
5 MHz			RB1#7	22.14	0.16
			RB1#14	22.2	0.17
			RB8#0	21.26	0.13
			RB8#4	21.19	0.13
			RB8#7	21.23	0.13
			RB15#0	20.98	0.13
	LCH	QPSK	RB1#0	23.02	0.20
			RB1#13	23.11	0.20
			RB1#24	23.02	0.20
			RB12#0	22.03	0.16
			RB12#6	22.21	0.17
			RB12#13	22.16	0.16
			RB25#0	22.08	0.16
		16-QAM	RB1#0	21.65	0.15
			RB1#13	21.75	0.15
			RB1#24	21.56	0.14
			RB12#0	20.94	0.12
			RB12#6	21.03	0.13
			RB12#13	20.97	0.13
			RB25#0	21.14	0.13
	MCH	QPSK	RB1#0	23.42	0.22
			RB1#13	23.44	0.22
			RB1#24	23.16	0.21
			RB12#0	22.52	0.18
			RB12#6	22.56	0.18
			RB12#13	22.56	0.18
			RB25#0	22.54	0.18
		16-QAM	RB1#0	22.5	0.18
			RB1#13	22.48	0.18
			RB1#24	21.89	0.15
			RB12#0	21.33	0.14
			RB12#6	21.39	0.14
			RB12#13	21.48	0.14
			RB25#0	21.38	0.14
	HCH	QPSK	RB1#0	23.25	0.21
			RB1#13	23.55	0.23
			RB1#24	23.45	0.22
			RB12#0	22.29	0.17
			RB12#6	22.49	0.18

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
			RB12#13	22.39	0.17
			RB25#0	22.4	0.17
		16-QAM	RB1#0	21.93	0.16
			RB1#13	22.07	0.16
			RB1#24	22.02	0.16
			RB12#0	21.28	0.13
			RB12#6	21.41	0.14
			RB12#13	21.21	0.13
			RB25#0	21.19	0.13
10 MHz	LCH	QPSK	RB1#0	23.13	0.21
			RB1#25	23.29	0.21
			RB1#49	23.16	0.21
			RB25#0	22.24	0.17
			RB25#13	22.2	0.17
			RB25#25	22.18	0.17
			RB50#0	22.21	0.17
		16-QAM	RB1#0	22.02	0.16
			RB1#25	22.48	0.18
			RB1#49	22.75	0.19
			RB25#0	21.17	0.13
			RB25#13	21.17	0.13
			RB25#25	21.23	0.13
			RB50#0	21.14	0.13
	MCH	QPSK	RB1#0	23.36	0.22
			RB1#25	23.62	0.23
			RB1#49	23.35	0.22
			RB25#0	22.48	0.18
			RB25#13	22.47	0.18
			RB25#25	22.55	0.18
			RB50#0	22.55	0.18
		16-QAM	RB1#0	22.29	0.17
			RB1#25	22.08	0.16
			RB1#49	22.17	0.16
			RB25#0	21.45	0.14
			RB25#13	21.5	0.14
			RB25#25	21.54	0.14
			RB50#0	21.56	0.14
	HCH	QPSK	RB1#0	23.42	0.22
			RB1#25	23.51	0.22

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
			RB1#49	23.36	0.22
			RB25#0	22.3	0.17
			RB25#13	22.33	0.17
			RB25#25	22.44	0.18
			RB50#0	22.34	0.17
		16-QAM	RB1#0	22.45	0.18
			RB1#25	22.19	0.17
			RB1#49	22.56	0.18
			RB25#0	21.53	0.14
			RB25#13	21.52	0.14
			RB25#25	21.58	0.14
			RB50#0	21.21	0.13
15 MHz	LCH	QPSK	RB1#0	23.02	0.20
			RB1#38	23.42	0.22
			RB1#74	23.57	0.23
			RB36#0	22.27	0.17
			RB36#19	22.29	0.17
			RB36#39	22.33	0.17
			RB75#0	22.14	0.16
		16-QAM	RB1#0	22.1	0.16
			RB1#38	22.85	0.19
			RB1#74	22.94	0.20
			RB36#0	21.11	0.13
			RB36#19	21.15	0.13
			RB36#39	21.21	0.13
			RB75#0	21.05	0.13
	MCH	QPSK	RB1#0	23.25	0.21
			RB1#38	23.47	0.22
			RB1#74	23.28	0.21
			RB36#0	22.46	0.18
			RB36#19	22.42	0.17
			RB36#39	22.35	0.17
			RB75#0	22.44	0.18
		16-QAM	RB1#0	22.3	0.17
			RB1#38	22.28	0.17
			RB1#74	21.62	0.15
			RB36#0	21.41	0.14
			RB36#19	21.44	0.14
			RB36#39	21.31	0.14

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
	HCH	QPSK	RB75#0	21.27	0.13
			RB1#0	23.42	0.22
			RB1#38	23.05	0.20
			RB1#74	23.25	0.21
			RB36#0	22.32	0.17
			RB36#19	22.2	0.17
			RB36#39	22.25	0.17
			RB75#0	22.33	0.17
		16-QAM	RB1#0	23.07	0.20
			RB1#38	23.02	0.20
			RB1#74	22.88	0.19
			RB36#0	21.3	0.13
			RB36#19	21.23	0.13
			RB36#39	21.09	0.13
			RB75#0	21.26	0.13
20 MHz	LCH	QPSK	RB1#0	22.73	0.19
			RB1#50	23.34	0.22
			RB1#99	23.11	0.20
			RB50#0	22.19	0.17
			RB50#25	22.29	0.17
			RB50#50	22.29	0.17
			RB100#0	22.26	0.17
		16-QAM	RB1#0	22.32	0.17
			RB1#50	22.15	0.16
			RB1#99	21.77	0.15
			RB50#0	21.04	0.13
			RB50#25	21.31	0.14
			RB50#50	21.26	0.13
			RB100#0	21.2	0.13
	MCH	QPSK	RB1#0	23.58	0.23
			RB1#50	23.55	0.23
			RB1#99	23.37	0.22
			RB50#0	22.49	0.18
			RB50#25	22.5	0.18
			RB50#50	22.35	0.17
			RB100#0	22.33	0.17
		16-QAM	RB1#0	22.17	0.16
			RB1#50	22.19	0.17
			RB1#99	21.99	0.16

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
			RB50#0	21.31	0.14
			RB50#25	21.37	0.14
			RB50#50	21.06	0.13
			RB100#0	21.25	0.13
	HCH	QPSK	RB1#0	23.4	0.22
			RB1#50	23.35	0.22
			RB1#99	23.45	0.22
			RB50#0	22.49	0.18
			RB50#25	22.34	0.17
			RB50#50	22.24	0.17
			RB100#0	22.49	0.18
		16-QAM	RB1#0	22.15	0.16
			RB1#50	22.16	0.16
			RB1#99	21.86	0.15
			RB50#0	21.48	0.14
			RB50#25	21.3	0.13
			RB50#50	21.09	0.13
			RB100#0	21.35	0.14

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band5					
1.4 MHz	LCH	QPSK	RB1#0	22.81	0.19
			RB1#3	22.79	0.19
			RB1#5	23.14	0.21
			RB3#0	22.95	0.20
			RB3#2	22.98	0.20
			RB3#3	22.79	0.19
			RB6#0	22.08	0.16
		16-QAM	RB1#0	21.84	0.15
			RB1#3	22.14	0.16
			RB1#5	22.15	0.16
			RB3#0	22.2	0.17
			RB3#2	22.24	0.17
			RB3#3	22.26	0.17
			RB6#0	21.35	0.14
	MCH	QPSK	RB1#0	22.7	0.19
			RB1#3	22.88	0.19
			RB1#5	22.76	0.19
			RB3#0	22.82	0.19
			RB3#2	23.01	0.20
			RB3#3	22.98	0.20
			RB6#0	21.84	0.15
		16-QAM	RB1#0	22.61	0.18
			RB1#3	22.8	0.19
			RB1#5	22.68	0.19
			RB3#0	22.13	0.16
			RB3#2	22.02	0.16
			RB3#3	21.87	0.15
			RB6#0	20.63	0.12
	HCH	QPSK	RB1#0	22.76	0.19
			RB1#3	22.88	0.19
			RB1#5	22.8	0.19
			RB3#0	22.83	0.19
			RB3#2	22.86	0.19
			RB3#3	22.76	0.19
			RB6#0	21.76	0.15
		16-QAM	RB1#0	21.63	0.15
			RB1#3	21.85	0.15
			RB1#5	21.91	0.16

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band5					
3 MHz			RB3#0	22.2	0.17
			RB3#2	22.1	0.16
			RB3#3	21.98	0.16
			RB6#0	20.95	0.12
	LCH	QPSK	RB1#0	22.94	0.20
			RB1#7	23.01	0.20
			RB1#14	22.97	0.20
			RB8#0	21.99	0.16
			RB8#4	21.91	0.16
			RB8#7	21.91	0.16
			RB15#0	22.04	0.16
		16-QAM	RB1#0	21.7	0.15
			RB1#7	21.83	0.15
			RB1#14	21.81	0.15
			RB8#0	20.83	0.12
			RB8#4	21.06	0.13
			RB8#7	21.06	0.13
			RB15#0	20.92	0.12
	MCH	QPSK	RB1#0	22.87	0.19
			RB1#7	22.82	0.19
			RB1#14	22.83	0.19
			RB8#0	21.95	0.16
			RB8#4	21.97	0.16
			RB8#7	22.01	0.16
			RB15#0	21.88	0.15
		16-QAM	RB1#0	21.72	0.15
			RB1#7	21.79	0.15
			RB1#14	21.73	0.15
			RB8#0	20.95	0.12
			RB8#4	21.06	0.13
			RB8#7	21.01	0.13
			RB15#0	20.82	0.12
	HCH	QPSK	RB1#0	22.89	0.19
			RB1#7	22.72	0.19
			RB1#14	22.79	0.19
			RB8#0	22.01	0.16
			RB8#4	21.8	0.15
			RB8#7	21.89	0.15
			RB15#0	21.93	0.16

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band5					
		16-QAM	RB1#0	21.91	0.16
			RB1#7	21.71	0.15
			RB1#14	21.78	0.15
			RB8#0	20.68	0.12
			RB8#4	20.72	0.12
			RB8#7	20.52	0.11
			RB15#0	20.71	0.12
5 MHz	LCH	QPSK	RB1#0	22.75	0.19
			RB1#13	22.94	0.20
			RB1#24	22.9	0.19
			RB12#0	22	0.16
			RB12#6	22.03	0.16
			RB12#13	21.98	0.16
			RB25#0	21.97	0.16
		16-QAM	RB1#0	21.5	0.14
			RB1#13	21.57	0.14
			RB1#24	21.46	0.14
			RB12#0	20.78	0.12
			RB12#6	20.79	0.12
			RB12#13	20.78	0.12
			RB25#0	21.04	0.13
	MCH	QPSK	RB1#0	22.55	0.18
			RB1#13	22.85	0.19
			RB1#24	22.6	0.18
			RB12#0	21.83	0.15
			RB12#6	22	0.16
			RB12#13	21.8	0.15
			RB25#0	21.83	0.15
		16-QAM	RB1#0	21.73	0.15
			RB1#13	21.94	0.16
			RB1#24	21.9	0.15
			RB12#0	20.69	0.12
			RB12#6	20.79	0.12
			RB12#13	20.75	0.12
			RB25#0	21.11	0.13
	HCH	QPSK	RB1#0	22.69	0.19
			RB1#13	23.05	0.20
			RB1#24	22.8	0.19
			RB12#0	22.07	0.16

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band5					
			RB12#6	22.08	0.16
			RB12#13	21.84	0.15
			RB25#0	22.01	0.16
		16-QAM	RB1#0	21.86	0.15
			RB1#13	21.87	0.15
			RB1#24	21.51	0.14
			RB12#0	20.82	0.12
			RB12#6	20.86	0.12
			RB12#13	20.89	0.12
			RB25#0	21.03	0.13
10 MHz	LCH	QPSK	RB1#0	22.86	0.19
			RB1#25	22.93	0.20
			RB1#49	22.68	0.19
			RB25#0	21.96	0.16
			RB25#13	21.97	0.16
			RB25#25	21.93	0.16
			RB50#0	22.04	0.16
		16-QAM	RB1#0	21.75	0.15
			RB1#25	22.19	0.17
			RB1#49	21.66	0.15
			RB25#0	20.99	0.13
			RB25#13	20.84	0.12
			RB25#25	20.85	0.12
			RB50#0	20.87	0.12
	MCH	QPSK	RB1#0	23.05	0.20
			RB1#25	22.96	0.20
			RB1#49	23.09	0.20
			RB25#0	21.97	0.16
			RB25#13	21.89	0.15
			RB25#25	21.92	0.16
			RB50#0	21.89	0.15
		16-QAM	RB1#0	21.91	0.16
			RB1#25	21.86	0.15
			RB1#49	21.89	0.15
			RB25#0	20.89	0.12
			RB25#13	20.92	0.12
			RB25#25	20.84	0.12
			RB50#0	20.91	0.12
	HCH	QPSK	RB1#0	22.84	0.19

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band5					
			RB1#25	23.08	0.20
			RB1#49	23.24	0.21
			RB25#0	21.96	0.16
			RB25#13	22.07	0.16
			RB25#25	22.06	0.16
			RB50#0	21.99	0.16
		16-QAM	RB1#0	21.79	0.15
			RB1#25	22.13	0.16
			RB1#49	21.89	0.15
			RB25#0	21.2	0.13
			RB25#13	21.08	0.13
			RB25#25	21.06	0.13
			RB50#0	20.85	0.12

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
5 MHz	LCH	QPSK	RB1#0	22.17	0.16
			RB1#13	22.27	0.17
			RB1#24	22.29	0.17
			RB12#0	21.49	0.14
			RB12#6	21.43	0.14
			RB12#13	21.46	0.14
			RB25#0	21.45	0.14
		16-QAM	RB1#0	21.05	0.13
			RB1#13	21.07	0.13
			RB1#24	20.87	0.12
			RB12#0	20.31	0.11
			RB12#6	20.34	0.11
			RB12#13	20.28	0.11
			RB25#0	20.47	0.11
	MCH	QPSK	RB1#0	22.45	0.18
			RB1#13	22.48	0.18
			RB1#24	22.29	0.17
			RB12#0	21.6	0.14
			RB12#6	21.64	0.15
			RB12#13	21.68	0.15
			RB25#0	21.55	0.14
		16-QAM	RB1#0	21.53	0.14
			RB1#13	21.63	0.15
			RB1#24	21.27	0.13
			RB12#0	20.44	0.11
			RB12#6	20.53	0.11
			RB12#13	20.53	0.11
			RB25#0	20.61	0.12
	HCH	QPSK	RB1#0	22.54	0.18
			RB1#13	22.53	0.18
			RB1#24	22.46	0.18
			RB12#0	21.59	0.14
			RB12#6	21.69	0.15
			RB12#13	21.51	0.14
			RB25#0	21.59	0.14
		16-QAM	RB1#0	21.31	0.14
			RB1#13	21.21	0.13
			RB1#24	20.97	0.13
			RB12#0	20.4	0.11

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
10 MHz			RB12#6	20.62	0.12
			RB12#13	20.51	0.11
			RB25#0	20.52	0.11
	LCH	QPSK	RB1#0	22.37	0.17
			RB1#25	22.47	0.18
			RB1#49	22.33	0.17
			RB25#0	21.55	0.14
			RB25#13	21.49	0.14
			RB25#25	21.55	0.14
			RB50#0	21.58	0.14
		16-QAM	RB1#0	21.55	0.14
			RB1#25	21.98	0.16
			RB1#49	21.32	0.14
			RB25#0	20.49	0.11
			RB25#13	20.62	0.12
			RB25#25	20.55	0.11
			RB50#0	20.49	0.11
	MCH	QPSK	RB1#0	22.54	0.18
			RB1#25	23.04	0.20
			RB1#49	22.62	0.18
			RB25#0	21.61	0.14
			RB25#13	21.67	0.15
			RB25#25	21.71	0.15
			RB50#0	21.65	0.15
		16-QAM	RB1#0	21.42	0.14
			RB1#25	21.4	0.14
			RB1#49	20.94	0.12
			RB25#0	20.61	0.12
			RB25#13	20.66	0.12
			RB25#25	20.62	0.12
			RB50#0	20.73	0.12
	HCH	QPSK	RB1#0	22.59	0.18
			RB1#25	22.79	0.19
			RB1#49	22.43	0.17
			RB25#0	21.66	0.15
			RB25#13	21.66	0.15
			RB25#25	21.56	0.14
			RB50#0	21.66	0.15
		16-QAM	RB1#0	21.65	0.15

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
			RB1#25	21.52	0.14
			RB1#49	21.69	0.15
			RB25#0	20.86	0.12
			RB25#13	20.78	0.12
			RB25#25	20.67	0.12
			RB50#0	20.58	0.11
15 MHz	LCH	QPSK	RB1#0	22.37	0.17
			RB1#38	22.39	0.17
			RB1#74	22.4	0.17
			RB36#0	21.5	0.14
			RB36#19	21.53	0.14
			RB36#39	21.52	0.14
		16-QAM	RB75#0	21.43	0.14
			RB1#0	21.57	0.14
			RB1#38	22.06	0.16
			RB1#74	21.38	0.14
			RB36#0	20.55	0.11
			RB36#19	20.52	0.11
			RB36#39	20.51	0.11
			RB75#0	20.51	0.11
	MCH	QPSK	RB1#0	22.34	0.17
			RB1#38	22.57	0.18
			RB1#74	22.54	0.18
			RB36#0	21.63	0.15
			RB36#19	21.59	0.14
			RB36#39	21.68	0.15
		16-QAM	RB75#0	21.64	0.15
			RB1#0	21.55	0.14
			RB1#38	21.52	0.14
			RB1#74	21.04	0.13
			RB36#0	20.63	0.12
			RB36#19	20.69	0.12
			RB36#39	20.68	0.12
			RB75#0	20.55	0.11
	HCH	QPSK	RB1#0	22.49	0.18
			RB1#38	22.42	0.17
			RB1#74	22.41	0.17
			RB36#0	21.62	0.15
			RB36#19	21.55	0.14

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
			RB36#39	21.6	0.14
			RB75#0	21.6	0.14
		16-QAM	RB1#0	22.22	0.17
			RB1#38	22.03	0.16
			RB1#74	22.03	0.16
			RB36#0	20.67	0.12
			RB36#19	20.65	0.12
			RB36#39	20.52	0.11
			RB75#0	20.63	0.12
20 MHz	LCH	QPSK	RB1#0	22.21	0.17
			RB1#50	22.65	0.18
			RB1#99	22.24	0.17
			RB50#0	21.5	0.14
			RB50#25	21.52	0.14
			RB50#50	21.54	0.14
			RB100#0	21.53	0.14
		16-QAM	RB1#0	21.64	0.15
			RB1#50	21.93	0.16
			RB1#99	21.16	0.13
			RB50#0	20.48	0.11
			RB50#25	20.63	0.12
			RB50#50	20.64	0.12
			RB100#0	20.48	0.11
	MCH	QPSK	RB1#0	22.5	0.18
			RB1#50	22.96	0.20
			RB1#99	22.65	0.18
			RB50#0	21.68	0.15
			RB50#25	21.67	0.15
			RB50#50	21.73	0.15
			RB100#0	21.69	0.15
		16-QAM	RB1#0	21.96	0.16
			RB1#50	21.53	0.14
			RB1#99	21.29	0.13
			RB50#0	20.65	0.12
			RB50#25	20.64	0.12
			RB50#50	20.68	0.12
			RB100#0	20.76	0.12
	HCH	QPSK	RB1#0	22.37	0.17
			RB1#50	22.34	0.17

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
			RB1#99	22.32	0.17
			RB50#0	21.66	0.15
			RB50#25	21.56	0.14
			RB50#50	21.58	0.14
			RB100#0	21.6	0.14
		16-QAM	RB1#0	21.7	0.15
			RB1#50	21.4	0.14
			RB1#99	21.29	0.13
			RB50#0	20.68	0.12
			RB50#25	20.67	0.12
			RB50#50	20.34	0.11
			RB100#0	20.74	0.12

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band17					
5 MHz	LCH	QPSK	RB1#0	21.86	0.15
			RB1#13	22.06	0.16
			RB1#24	21.71	0.15
			RB12#0	20.96	0.12
			RB12#6	20.87	0.12
			RB12#13	20.9	0.12
			RB25#0	20.93	0.12
		16-QAM	RB1#0	20.61	0.12
			RB1#13	20.62	0.12
			RB1#24	20.18	0.10
			RB12#0	19.85	0.10
			RB12#6	20.03	0.10
			RB12#13	19.73	0.09
			RB25#0	20.03	0.10
	MCH	QPSK	RB1#0	21.81	0.15
			RB1#13	21.81	0.15
			RB1#24	21.63	0.15
			RB12#0	20.9	0.12
			RB12#6	20.9	0.12
			RB12#13	20.89	0.12
			RB25#0	20.9	0.12
		16-QAM	RB1#0	20.87	0.12
			RB1#13	21.07	0.13
			RB1#24	20.39	0.11
			RB12#0	19.96	0.10
			RB12#6	19.72	0.09
			RB12#13	19.74	0.09
			RB25#0	19.84	0.10
	HCH	QPSK	RB1#0	21.96	0.16
			RB1#13	21.83	0.15
			RB1#24	21.83	0.15
			RB12#0	20.93	0.12
			RB12#6	20.93	0.12
			RB12#13	20.77	0.12
			RB25#0	20.87	0.12
		16-QAM	RB1#0	20.38	0.11
			RB1#13	20.71	0.12
			RB1#24	19.97	0.10

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band17					
10 MHz			RB12#0	19.77	0.09
			RB12#6	19.87	0.10
			RB12#13	19.71	0.09
			RB25#0	19.82	0.10
	LCH	QPSK	RB1#0	22.03	0.16
			RB1#25	21.99	0.16
			RB1#49	21.82	0.15
			RB25#0	21.05	0.13
			RB25#13	21.04	0.13
			RB25#25	20.93	0.12
			RB50#0	21.05	0.13
		16-QAM	RB1#0	21.01	0.13
			RB1#25	21.47	0.14
			RB1#49	20.79	0.12
			RB25#0	20.24	0.11
			RB25#13	20.21	0.10
			RB25#25	19.89	0.10
			RB50#0	19.99	0.10
	MCH	QPSK	RB1#0	22.15	0.16
			RB1#25	21.85	0.15
			RB1#49	21.76	0.15
			RB25#0	21.06	0.13
			RB25#13	20.9	0.12
			RB25#25	20.94	0.12
			RB50#0	20.89	0.12
		16-QAM	RB1#0	20.74	0.12
			RB1#25	20.93	0.12
			RB1#49	20.14	0.10
			RB25#0	19.95	0.10
			RB25#13	20	0.10
			RB25#25	20.04	0.10
			RB50#0	19.94	0.10
	HCH	QPSK	RB1#0	21.92	0.16
			RB1#25	22.13	0.16
			RB1#49	21.6	0.14
			RB25#0	20.96	0.12
			RB25#13	20.97	0.13
			RB25#25	20.88	0.12
			RB50#0	20.93	0.12

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band17					
		16-QAM	RB1#0	20.73	0.12
			RB1#25	20.77	0.12
			RB1#49	20.75	0.12
			RB25#0	20.23	0.11
			RB25#13	20.23	0.11
			RB25#25	20.12	0.10
			RB50#0	19.82	0.10

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band41					
5 MHz	LCH	QPSK	RB1#0	22.08	0.16
			RB1#13	22.18	0.17
			RB1#24	22.09	0.16
			RB12#0	21.22	0.13
			RB12#6	21.31	0.14
			RB12#13	21.27	0.13
			RB25#0	21.29	0.13
		16-QAM	RB1#0	20.66	0.12
			RB1#13	20.74	0.12
			RB1#24	20.73	0.12
			RB12#0	20.19	0.10
			RB12#6	20.19	0.10
			RB12#13	20.12	0.10
			RB25#0	20.32	0.11
	MCH	QPSK	RB1#0	22.11	0.16
			RB1#13	22.12	0.16
			RB1#24	22.21	0.17
			RB12#0	21.46	0.14
			RB12#6	21.54	0.14
			RB12#13	21.48	0.14
			RB25#0	21.51	0.14
		16-QAM	RB1#0	21.36	0.14
			RB1#13	21.06	0.13
			RB1#24	20.99	0.13
			RB12#0	20.35	0.11
			RB12#6	20.39	0.11
			RB12#13	20.35	0.11
			RB25#0	20.44	0.11
	HCH	QPSK	RB1#0	22.35	0.17
			RB1#13	22.47	0.18
			RB1#24	22.47	0.18
			RB12#0	21.71	0.15
			RB12#6	21.7	0.15
			RB12#13	21.67	0.15
			RB25#0	21.61	0.14
		16-QAM	RB1#0	21.44	0.14
			RB1#13	21.4	0.14
			RB1#24	21.42	0.14
			RB12#0	20.73	0.12

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band41					
10 MHz	LCH		RB12#6	20.84	0.12
			RB12#13	20.8	0.12
			RB25#0	20.64	0.12
	LCH	QPSK	RB1#0	22.28	0.17
			RB1#25	22.3	0.17
			RB1#49	22.28	0.17
			RB25#0	21.37	0.14
			RB25#13	21.41	0.14
			RB25#25	21.33	0.14
			RB50#0	21.36	0.14
		16-QAM	RB1#0	21.67	0.15
			RB1#25	21.93	0.16
			RB1#49	21.47	0.14
			RB25#0	20.49	0.11
			RB25#13	20.51	0.11
			RB25#25	20.46	0.11
			RB50#0	20.18	0.10
	MCH	QPSK	RB1#0	22.46	0.18
			RB1#25	22.58	0.18
			RB1#49	22.43	0.17
			RB25#0	21.53	0.14
			RB25#13	21.54	0.14
			RB25#25	21.49	0.14
			RB50#0	21.55	0.14
		16-QAM	RB1#0	20.95	0.12
			RB1#25	20.89	0.12
			RB1#49	20.87	0.12
			RB25#0	20.53	0.11
			RB25#13	20.5	0.11
			RB25#25	20.46	0.11
			RB50#0	20.57	0.11
	HCH	QPSK	RB1#0	22.55	0.18
			RB1#25	22.41	0.17
			RB1#49	22.48	0.18
			RB25#0	21.7	0.15
			RB25#13	21.95	0.16
			RB25#25	21.74	0.15
			RB50#0	21.66	0.15
		16-QAM	RB1#0	22.4	0.17

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band41					
15 MHz			RB1#25	22.66	0.18
			RB1#49	22.45	0.18
			RB25#0	20.75	0.12
			RB25#13	20.74	0.12
			RB25#25	20.81	0.12
			RB50#0	20.75	0.12
	LCH	QPSK	RB1#0	22.34	0.17
			RB1#38	22.33	0.17
			RB1#74	22.16	0.16
			RB36#0	21.35	0.14
			RB36#19	21.34	0.14
			RB36#39	21.33	0.14
			RB75#0	21.34	0.14
		16-QAM	RB1#0	21.69	0.15
			RB1#38	21.61	0.14
			RB1#74	21.64	0.15
			RB36#0	20.16	0.10
			RB36#19	20.12	0.10
			RB36#39	20.08	0.10
			RB75#0	20.5	0.11
	MCH	QPSK	RB1#0	22.21	0.17
			RB1#38	22.24	0.17
			RB1#74	22.17	0.16
			RB36#0	21.5	0.14
			RB36#19	21.49	0.14
			RB36#39	21.48	0.14
			RB75#0	21.5	0.14
		16-QAM	RB1#0	21.43	0.14
			RB1#38	21.3	0.13
			RB1#74	21.31	0.14
			RB36#0	20.46	0.11
			RB36#19	20.37	0.11
			RB36#39	20.45	0.11
			RB75#0	20.6	0.11
	HCH	QPSK	RB1#0	22.69	0.19
			RB1#38	22.5	0.18
			RB1#74	22.45	0.18
			RB36#0	21.71	0.15
			RB36#19	21.63	0.15

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band41					
			RB36#39	21.65	0.15
			RB75#0	21.65	0.15
		16-QAM	RB1#0	22.14	0.16
			RB1#38	21.95	0.16
			RB1#74	22.04	0.16
			RB36#0	20.53	0.11
			RB36#19	20.47	0.11
			RB36#39	20.53	0.11
			RB75#0	20.79	0.12
20 MHz	LCH	QPSK	RB1#0	22.02	0.16
			RB1#50	22.31	0.17
			RB1#99	22.01	0.16
			RB50#0	21.38	0.14
			RB50#25	21.35	0.14
			RB50#50	21.35	0.14
			RB100#0	21.32	0.14
		16-QAM	RB1#0	20.99	0.13
			RB1#50	21.13	0.13
			RB1#99	20.84	0.12
			RB50#0	20.38	0.11
			RB50#25	20.36	0.11
			RB50#50	20.38	0.11
			RB100#0	20.36	0.11
	MCH	QPSK	RB1#0	22.19	0.17
			RB1#50	22.5	0.18
			RB1#99	22.08	0.16
			RB50#0	21.52	0.14
			RB50#25	21.47	0.14
			RB50#50	21.47	0.14
			RB100#0	21.47	0.14
		16-QAM	RB1#0	20.64	0.12
			RB1#50	20.66	0.12
			RB1#99	20.55	0.11
			RB50#0	20.53	0.11
			RB50#25	20.51	0.11
			RB50#50	20.55	0.11
			RB100#0	20.42	0.11
	HCH	QPSK	RB1#0	22.85	0.19
			RB1#50	22.73	0.19

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band41					
			RB1#99	22.6	0.18
			RB50#0	21.74	0.15
			RB50#25	21.63	0.15
			RB50#50	21.65	0.15
			RB100#0	21.67	0.15
		16-QAM	RB1#0	22.26	0.17
			RB1#50	21.76	0.15
			RB1#99	21.96	0.16
			RB50#0	20.84	0.12
			RB50#25	20.69	0.12
			RB50#50	20.64	0.12
			RB100#0	20.73	0.12

A.1.2 Effective (Isotropic) Radiated Power

GSM Mode Test Data

Test Band	Channel	PCL	Measured ERP				Limit (W)	Verdict
			SA Read Value (dBm)	Correction Factor(dB)	ERP (dBm)	ERP (W)		
GSM 850	LCH	5	16.46	9.83	26.29	0.43	7	Pass
	MCH	5	16.33	9.83	26.16	0.41		Pass
	HCH	5	16.5	9.83	26.33	0.43		Pass
GPRS 850	LCH	5	14.73	9.83	24.56	0.29		Pass
	MCH	5	15.01	9.83	24.84	0.30		Pass
	HCH	5	15.34	9.83	25.17	0.33		Pass
EGPRS 850	LCH	8	14.53	9.83	24.36	0.27		Pass
	MCH	8	15.44	9.83	25.27	0.34		Pass
	HCH	8	14.93	9.83	24.76	0.30		Pass

Test Band	Channel	PCL	Measured EIRP				Limit (W)	Verdict
			SA Read Value (dBm)	Correction Factor(dB)	EIRP (dBm)	EIRP (W)		
GSM 1900	LCH	0	11.62	17.8	29.42	0.87	2	Pass
	MCH	0	11.41	17.8	29.21	0.83		Pass
	HCH	0	11.72	17.8	29.52	0.90		Pass
GPRS 1900	LCH	0	11.69	17.8	29.49	0.89		Pass
	MCH	0	11.47	17.8	29.27	0.85		Pass
	HCH	0	11.78	17.8	29.58	0.91		Pass
EGPRS 1900	LCH	2	11.49	17.8	29.29	0.85		Pass
	MCH	2	11.69	17.8	29.49	0.89		Pass
	HCH	2	11.11	17.8	28.91	0.78		Pass

Note 1: For the GPRS and EGPRS mode, all the slots were tested and just the worst data were recorded in this table.

Note 2: $ERP/EIRP = SA \text{ Read Value} + \text{Correction Factor}$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

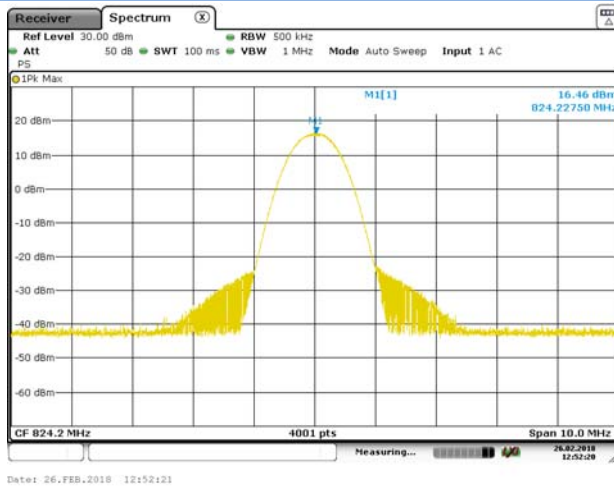
Correction Factor = total correction factor including cable loss, in dB;

Note 3: Set PCL to 5 for GSM/GPRS 850 (power class 4) and 0 for GSM/GPRS 1900 (power class 1). Set PCL to 8 for EGPRS850 (power class E2) and 2 for EGPRS1900 (power class E2).

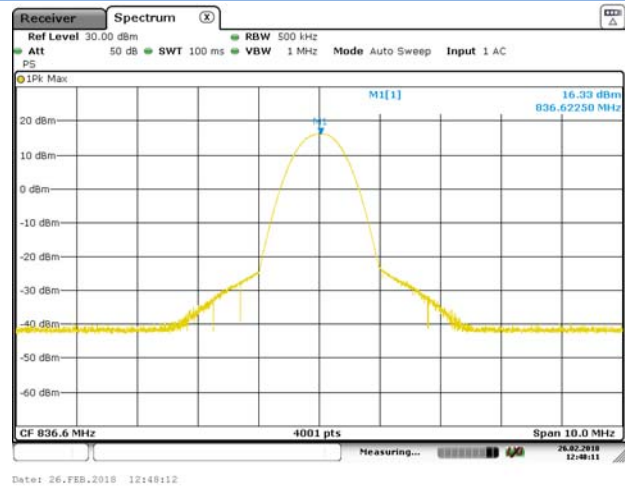
GSM Mode Test Plots

GSM850

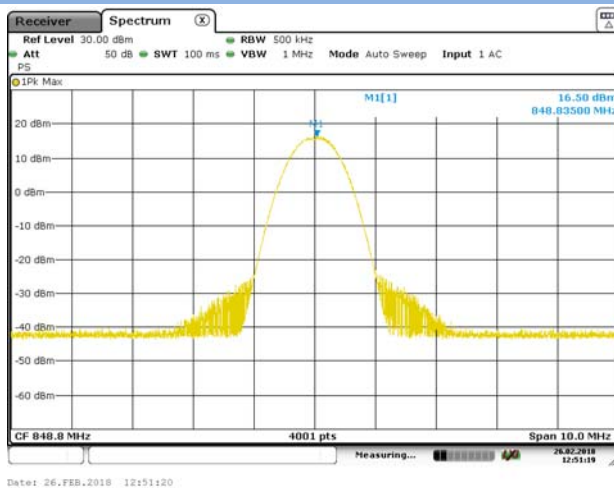
GSM 850 LOW CHANNEL



GSM 850 MIDDLE CHANNEL



GSM 850 HIGH CHANNEL

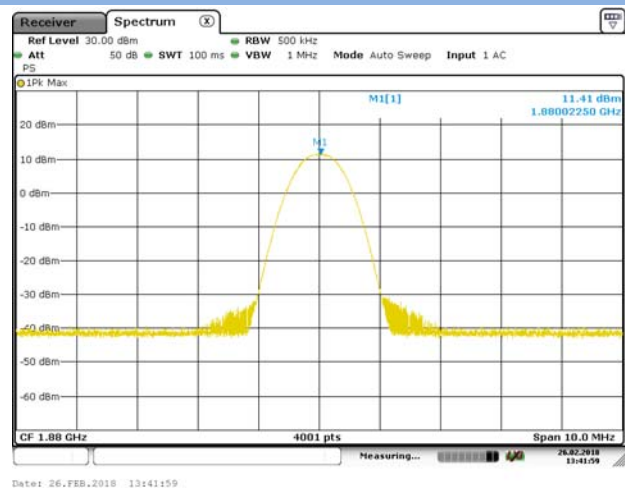


GSM1900

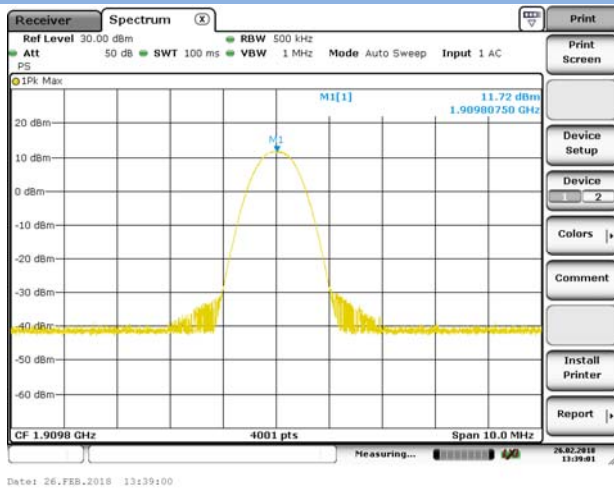
GSM 1900 LOW CHANNEL



GSM 1900 MIDDLE CHANNEL

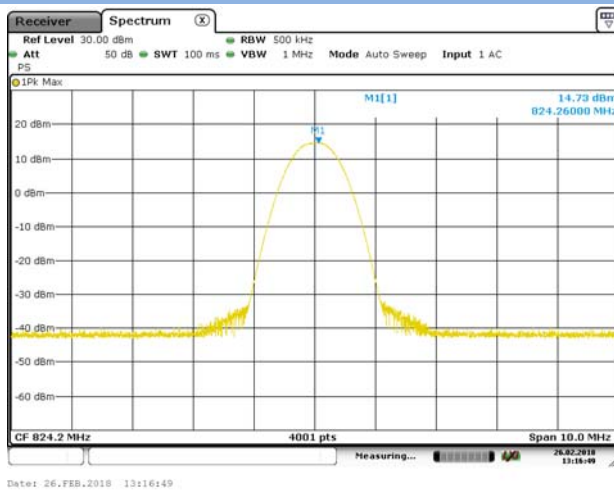


GSM 1900 HIGH CHANNEL

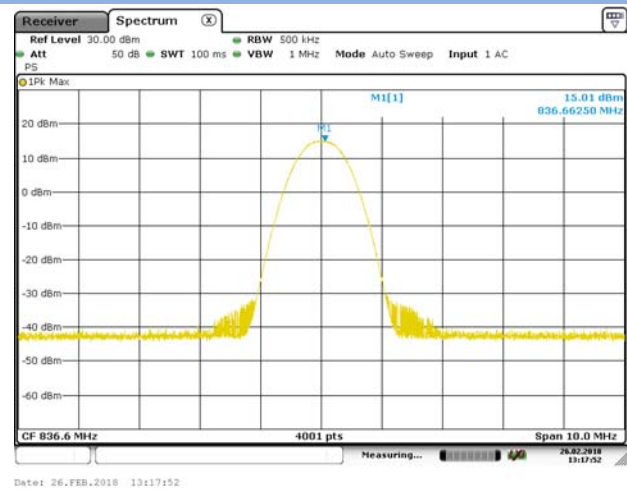


GPRS850

GPRS 850 LOW CHANNEL



GPRS 850 MIDDLE CHANNEL

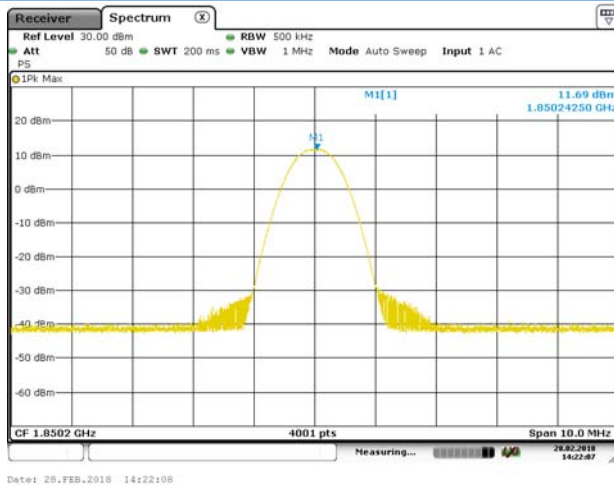


GPRS 850 HIGH CHANNEL



GPRS1900

GPRS 1900 LOW CHANNEL



GPRS 1900 MIDDLE CHANNEL

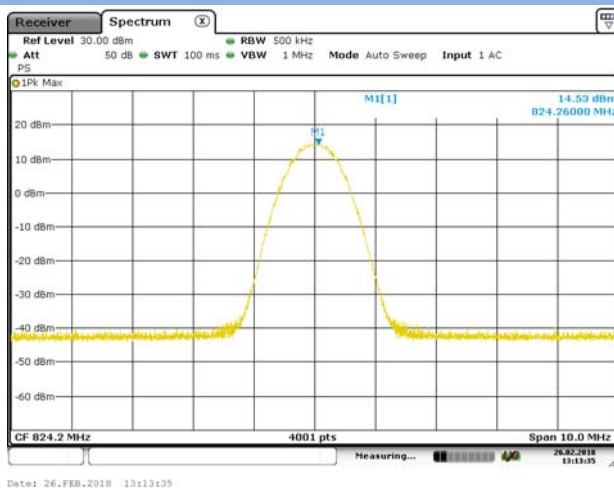


GPRS 1900 HIGH CHANNEL

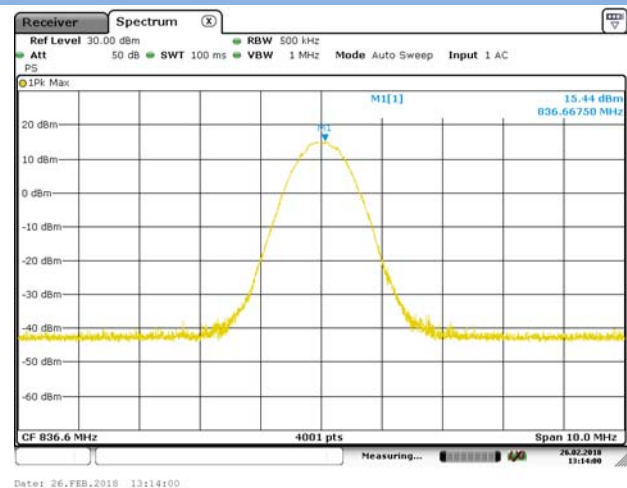


EGPRS850

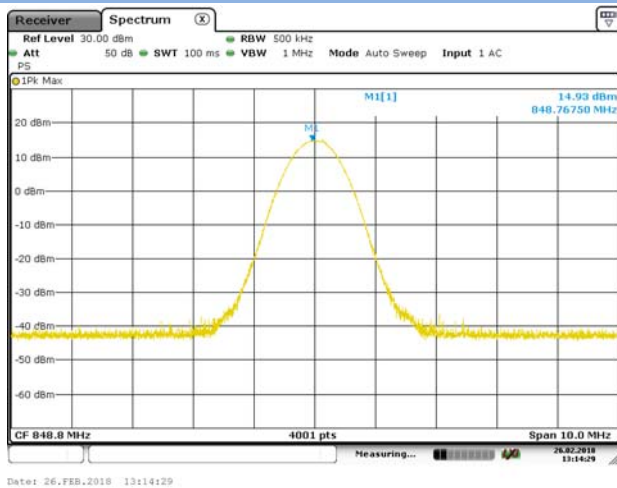
EGPRS 850 LOW CHANNEL



EGPRS 850 MIDDLE CHANNEL

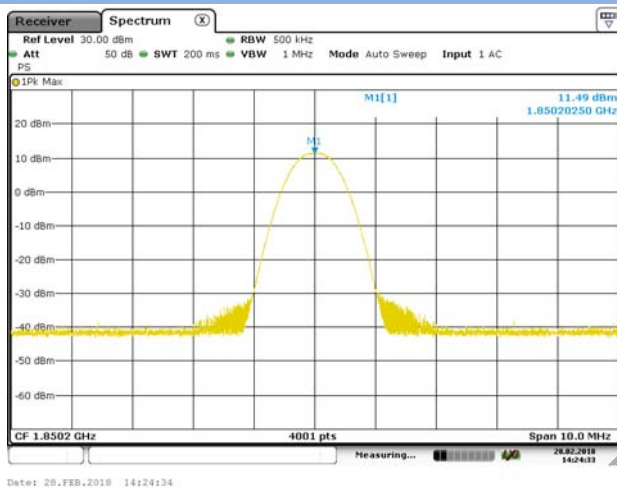


EGPRS 850 HIGH CHANNEL

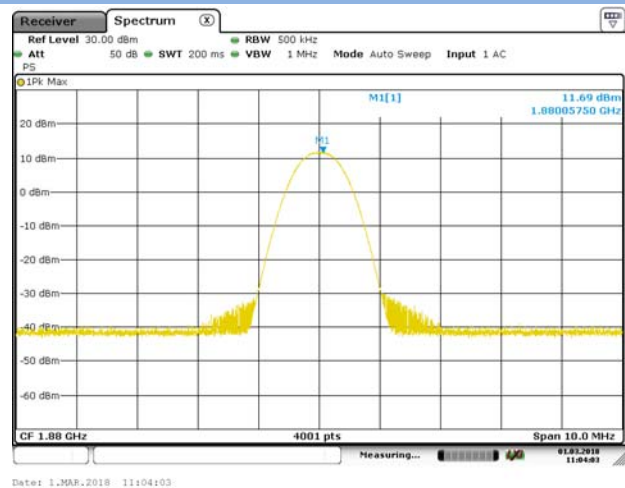


EGPRS1900

EGPRS 1900 LOW CHANNEL



EGPRS 1900 MIDDLE CHANNEL



EGPRS 1900 HIGH CHANNEL



WCDMA Mode Test Data:

Test Band	Channel	Measured EIRP				Limit (W)	Verdict
		SA Read Value (dBm)	Correction Factor(dB)	EIRP (dBm)	EIRP (W)		
WCDMA B2	LCH	0.81	17.8	18.61	0.07	2	Pass
	MCH	0.67	17.8	18.47	0.07		Pass
	HCH	0.71	17.8	18.51	0.07		Pass
HSDPA B2	LCH	0.72	17.8	18.52	0.07		Pass
	MCH	0.61	17.8	18.41	0.07		Pass
	HCH	0.67	17.8	18.47	0.07		Pass
HSUPA B2	LCH	0.58	17.8	18.38	0.07		Pass
	MCH	0.51	17.8	18.31	0.07		Pass
	HCH	0.53	17.8	18.33	0.07		Pass

Test Band	Channel	Measured ERP				Limit (W)	Verdict
		SA Read Value (dBm)	Correction Factor(dB)	ERP (dBm)	ERP (W)		
WCDMA B5	LCH	9.35	9.83	19.18	0.08	7	Pass
	MCH	9.32	9.83	19.15	0.08		Pass
	HCH	9.11	9.83	18.94	0.08		Pass
HSDPA B5	LCH	8.14	9.83	17.97	0.06		Pass
	MCH	8.09	9.83	17.92	0.06		Pass
	HCH	8.1	9.83	17.93	0.06		Pass
HSUPA B5	LCH	7.15	9.83	16.98	0.05		Pass
	MCH	7.23	9.83	17.06	0.05		Pass
	HCH	7.21	9.83	17.04	0.05		Pass

Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this table.

Note 2: $ERP/EIRP = SA \text{ Read Value} + \text{Correction Factor}$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

CDMA/EVDO Mode Test Data:

Test Band	Channel	Measured ERP				Limit (W)	Verdict
		SA Read Value (dBm)	Correction Factor(dB)	ERP (dBm)	ERP (W)		
CDMA F1R1	LCH	8.34	9.83	18.17	0.07	7	Pass
	MCH	8.15	9.83	17.98	0.06		Pass
	HCH	8.09	9.83	17.92	0.06		Pass
CDMA F3R3	LCH	8.11	9.83	17.94	0.06		Pass
	MCH	8.01	9.83	17.84	0.06		Pass
	HCH	8.12	9.83	17.95	0.06		Pass
CDMA Rel. 0	LCH	8.25	9.83	18.08	0.06		Pass
	MCH	8.19	9.83	18.02	0.06		Pass
	HCH	8.14	9.83	17.97	0.06		Pass
CDMA Rev. A	LCH	8.28	9.83	18.11	0.06		Pass
	MCH	8.08	9.83	17.91	0.06		Pass
	HCH	8.17	9.83	18.00	0.06		Pass

LTE Mode Test Data:

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	SA Read Value (dBm)	Correction Factor(dB)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND2									
1.4 MHz	LCH	QPSK	RB1#0	0.87	17.8	18.67	0.07	2.00	Pass
			RB6#0	0.11	17.8	17.91	0.06	2.00	Pass
		16-QAM	RB1#0	0.67	17.8	18.47	0.07	2.00	Pass
			RB6#0	-0.17	17.8	17.63	0.06	2.00	Pass
	MCH	QPSK	RB1#0	0.78	17.8	18.58	0.07	2.00	Pass
			RB6#0	0.08	17.8	17.88	0.06	2.00	Pass
		16-QAM	RB1#0	0.11	17.8	17.91	0.06	2.00	Pass
			RB6#0	-0.57	17.8	17.23	0.05	2.00	Pass
	HCH	QPSK	RB1#0	0.78	17.8	18.58	0.07	2.00	Pass
			RB6#0	0.24	17.8	18.04	0.06	2.00	Pass
		16-QAM	RB1#0	0.77	17.8	18.57	0.07	2.00	Pass
			RB6#0	0.43	17.8	18.23	0.07	2.00	Pass
3 MHz	LCH	QPSK	RB1#0	1.3	17.8	19.10	0.08	2.00	Pass
			RB15#0	0.18	17.8	17.98	0.06	2.00	Pass
		16-QAM	RB1#0	1.03	17.8	18.83	0.08	2.00	Pass
			RB15#0	0.11	17.8	17.91	0.06	2.00	Pass
	MCH	QPSK	RB1#0	0.72	17.8	18.52	0.07	2.00	Pass
			RB15#0	0.21	17.8	18.01	0.06	2.00	Pass
		16-QAM	RB1#0	0.41	17.8	18.21	0.07	2.00	Pass
			RB15#0	-0.33	17.8	17.47	0.06	2.00	Pass
	HCH	QPSK	RB1#0	0.97	17.8	18.77	0.08	2.00	Pass
			RB15#0	0.2	17.8	18.00	0.06	2.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	SA Read Value (dBm)	Correction Factor(dB)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND2									
5 MHz		16-QAM	RB1#0	0.65	17.8	18.45	0.07	2.00	Pass
			RB15#0	0.46	17.8	18.26	0.07	2.00	Pass
	LCH	QPSK	RB1#0	1.12	17.8	18.92	0.08	2.00	Pass
			RB25#0	0.33	17.8	18.13	0.07	2.00	Pass
		16-QAM	RB1#0	0.55	17.8	18.35	0.07	2.00	Pass
			RB25#0	0.03	17.8	17.83	0.06	2.00	Pass
	MCH	QPSK	RB1#0	1.19	17.8	18.99	0.08	2.00	Pass
			RB25#0	0.27	17.8	18.07	0.06	2.00	Pass
		16-QAM	RB1#0	0.28	17.8	18.08	0.06	2.00	Pass
			RB25#0	-0.3	17.8	17.50	0.06	2.00	Pass
	HCH	QPSK	RB1#0	0.92	17.8	18.72	0.07	2.00	Pass
			RB25#0	0.16	17.8	17.96	0.06	2.00	Pass
		16-QAM	RB1#0	1.2	17.8	19.00	0.08	2.00	Pass
			RB25#0	0.41	17.8	18.21	0.07	2.00	Pass
10 MHz	LCH	QPSK	RB1#0	1.22	17.8	19.02	0.08	2.00	Pass
			RB50#0	0.37	17.8	18.17	0.07	2.00	Pass
		16-QAM	RB1#0	0.58	17.8	18.38	0.07	2.00	Pass
			RB50#0	0.19	17.8	17.99	0.06	2.00	Pass
	MCH	QPSK	RB1#0	1.04	17.8	18.84	0.08	2.00	Pass
			RB50#0	0.22	17.8	18.02	0.06	2.00	Pass
		16-QAM	RB1#0	0.27	17.8	18.07	0.06	2.00	Pass
			RB50#0	-0.39	17.8	17.41	0.06	2.00	Pass
	HCH	QPSK	RB1#0	0.88	17.8	18.68	0.07	2.00	Pass
			RB50#0	0.35	17.8	18.15	0.07	2.00	Pass
		16-QAM	RB1#0	1	17.8	18.80	0.08	2.00	Pass
			RB50#0	0.8	17.8	18.60	0.07	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	1.04	17.8	18.84	0.08	2.00	Pass
			RB75#0	0.11	17.8	17.91	0.06	2.00	Pass
		16-QAM	RB1#0	0.87	17.8	18.67	0.07	2.00	Pass
			RB75#0	-0.21	17.8	17.59	0.06	2.00	Pass
	MCH	QPSK	RB1#0	1.19	17.8	18.99	0.08	2.00	Pass
			RB75#0	0.34	17.8	18.14	0.07	2.00	Pass
		16-QAM	RB1#0	0.29	17.8	18.09	0.06	2.00	Pass
			RB75#0	-0.48	17.8	17.32	0.05	2.00	Pass
	HCH	QPSK	RB1#0	0.67	17.8	18.47	0.07	2.00	Pass
			RB75#0	0.33	17.8	18.13	0.07	2.00	Pass
		16-QAM	RB1#0	1.1	17.8	18.90	0.08	2.00	Pass
			RB75#0	0.71	17.8	18.51	0.07	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	1.17	17.8	18.97	0.08	2.00	Pass
			RB100#0	-0.04	17.8	17.76	0.06	2.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	SA Read Value (dBm)	Correction Factor(dB)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND2									
		16-QAM	RB1#0	0.49	17.8	18.29	0.07	2.00	Pass
			RB100#0	-0.34	17.8	17.46	0.06	2.00	Pass
	MCH	QPSK	RB1#0	0.91	17.8	18.71	0.07	2.00	Pass
			RB100#0	0.45	17.8	18.25	0.07	2.00	Pass
		16-QAM	RB1#0	0.41	17.8	18.21	0.07	2.00	Pass
			RB100#0	-0.51	17.8	17.29	0.05	2.00	Pass
	HCH	QPSK	RB1#0	0.94	17.8	18.74	0.07	2.00	Pass
			RB100#0	0.53	17.8	18.33	0.07	2.00	Pass
		16-QAM	RB1#0	1.08	17.8	18.88	0.08	2.00	Pass
			RB100#0	0.36	17.8	18.16	0.07	2.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	SA Read Value (dBm)	Correction Factor(dB)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND4									
1.4 MHz	LCH	QPSK	RB1#0	5.36	14.4	19.76	0.09	1.00	Pass
			RB6#0	4.54	14.4	18.94	0.08	1.00	Pass
		16-QAM	RB1#0	5.14	14.4	19.54	0.09	1.00	Pass
			RB6#0	4.23	14.4	18.63	0.07	1.00	Pass
	MCH	QPSK	RB1#0	5.28	14.4	19.68	0.09	1.00	Pass
			RB6#0	4.65	14.4	19.05	0.08	1.00	Pass
		16-QAM	RB1#0	5.11	14.4	19.51	0.09	1.00	Pass
			RB6#0	4.13	14.4	18.53	0.07	1.00	Pass
	HCH	QPSK	RB1#0	5.27	14.4	19.67	0.09	1.00	Pass
			RB6#0	4.08	14.4	18.48	0.07	1.00	Pass
		16-QAM	RB1#0	5.22	14.4	19.62	0.09	1.00	Pass
			RB6#0	4.12	14.4	18.52	0.07	1.00	Pass
3 MHz	LCH	QPSK	RB1#0	5.54	14.4	19.94	0.10	1.00	Pass
			RB15#0	4.49	14.4	18.89	0.08	1.00	Pass
		16-QAM	RB1#0	5.15	14.4	19.55	0.09	1.00	Pass
			RB15#0	4.5	14.4	18.90	0.08	1.00	Pass
	MCH	QPSK	RB1#0	5.43	14.4	19.83	0.10	1.00	Pass
			RB15#0	4.95	14.4	19.35	0.09	1.00	Pass
		16-QAM	RB1#0	5.05	14.4	19.45	0.09	1.00	Pass
			RB15#0	4.08	14.4	18.48	0.07	1.00	Pass
	HCH	QPSK	RB1#0	5.44	14.4	19.84	0.10	1.00	Pass
			RB15#0	4.32	14.4	18.72	0.07	1.00	Pass
		16-QAM	RB1#0	5.16	14.4	19.56	0.09	1.00	Pass
			RB15#0	4.14	14.4	18.54	0.07	1.00	Pass
5 MHz	LCH	QPSK	RB1#0	5.76	14.4	20.16	0.10	1.00	Pass
			RB25#0	4.81	14.4	19.21	0.08	1.00	Pass
		16-QAM	RB1#0	5.59	14.4	19.99	0.10	1.00	Pass
			RB25#0	4.13	14.4	18.53	0.07	1.00	Pass
	MCH	QPSK	RB1#0	5.23	14.4	19.63	0.09	1.00	Pass
			RB25#0	4.73	14.4	19.13	0.08	1.00	Pass
		16-QAM	RB1#0	5.37	14.4	19.77	0.09	1.00	Pass
			RB25#0	4.42	14.4	18.82	0.08	1.00	Pass
	HCH	QPSK	RB1#0	5.23	14.4	19.63	0.09	1.00	Pass
			RB25#0	3.98	14.4	18.38	0.07	1.00	Pass
		16-QAM	RB1#0	5.23	14.4	19.63	0.09	1.00	Pass
			RB25#0	4.59	14.4	18.99	0.08	1.00	Pass
10 MHz	LCH	QPSK	RB1#0	5.55	14.4	19.95	0.10	1.00	Pass
			RB50#0	4.86	14.4	19.26	0.08	1.00	Pass
		16-QAM	RB1#0	5.52	14.4	19.92	0.10	1.00	Pass
			RB50#0	4.49	14.4	18.89	0.08	1.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	SA Read Value (dBm)	Correction Factor(dB)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND4									
	MCH	QPSK	RB1#0	5.7	14.4	20.10	0.10	1.00	Pass
			RB50#0	4.72	14.4	19.12	0.08	1.00	Pass
		16-QAM	RB1#0	5.1	14.4	19.50	0.09	1.00	Pass
			RB50#0	4.29	14.4	18.69	0.07	1.00	Pass
	HCH	QPSK	RB1#0	5.24	14.4	19.64	0.09	1.00	Pass
			RB50#0	4.51	14.4	18.91	0.08	1.00	Pass
		16-QAM	RB1#0	5.66	14.4	20.06	0.10	1.00	Pass
			RB50#0	4.21	14.4	18.61	0.07	1.00	Pass
15 MHz	LCH	QPSK	RB1#0	5.31	14.4	19.71	0.09	1.00	Pass
			RB75#0	4.96	14.4	19.36	0.09	1.00	Pass
		16-QAM	RB1#0	5.11	14.4	19.51	0.09	1.00	Pass
			RB75#0	4.27	14.4	18.67	0.07	1.00	Pass
	MCH	QPSK	RB1#0	5.53	14.4	19.93	0.10	1.00	Pass
			RB75#0	4.84	14.4	19.24	0.08	1.00	Pass
		16-QAM	RB1#0	4.98	14.4	19.38	0.09	1.00	Pass
			RB75#0	4.23	14.4	18.63	0.07	1.00	Pass
	HCH	QPSK	RB1#0	5.38	14.4	19.78	0.10	1.00	Pass
			RB75#0	4.48	14.4	18.88	0.08	1.00	Pass
		16-QAM	RB1#0	5.39	14.4	19.79	0.10	1.00	Pass
			RB75#0	4.21	14.4	18.61	0.07	1.00	Pass
20 MHz	LCH	QPSK	RB1#0	5.49	14.4	19.89	0.10	1.00	Pass
			RB100#0	4.63	14.4	19.03	0.08	1.00	Pass
		16-QAM	RB1#0	5.3	14.4	19.70	0.09	1.00	Pass
			RB100#0	4.62	14.4	19.02	0.08	1.00	Pass
	MCH	QPSK	RB1#0	5.2	14.4	19.60	0.09	1.00	Pass
			RB100#0	4.67	14.4	19.07	0.08	1.00	Pass
		16-QAM	RB1#0	5.21	14.4	19.61	0.09	1.00	Pass
			RB100#0	4.12	14.4	18.52	0.07	1.00	Pass
	HCH	QPSK	RB1#0	5.51	14.4	19.91	0.10	1.00	Pass
			RB100#0	4.29	14.4	18.69	0.07	1.00	Pass
		16-QAM	RB1#0	5.42	14.4	19.82	0.10	1.00	Pass
			RB100#0	4.45	14.4	18.85	0.08	1.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	SA Read Value (dBm)	Correction Factor(dB)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5									
1.4 MHz	LCH	QPSK	RB1#0	8.09	9.83	17.92	0.06	7.00	Pass
			RB6#0	7.14	9.83	16.97	0.05	7.00	Pass
		16-QAM	RB1#0	7.9	9.83	17.73	0.06	7.00	Pass
			RB6#0	7.27	9.83	17.10	0.05	7.00	Pass
	MCH	QPSK	RB1#0	7.68	9.83	17.51	0.06	7.00	Pass
			RB6#0	7.06	9.83	16.89	0.05	7.00	Pass
		16-QAM	RB1#0	7.12	9.83	16.95	0.05	7.00	Pass
			RB6#0	7.85	9.83	17.68	0.06	7.00	Pass
	HCH	QPSK	RB1#0	8.22	9.83	18.05	0.06	7.00	Pass
			RB6#0	7.3	9.83	17.13	0.05	7.00	Pass
		16-QAM	RB1#0	7.94	9.83	17.77	0.06	7.00	Pass
			RB6#0	7.53	9.83	17.36	0.05	7.00	Pass
3 MHz	LCH	QPSK	RB1#0	8.13	9.83	17.96	0.06	7.00	Pass
			RB15#0	7.37	9.83	17.20	0.05	7.00	Pass
		16-QAM	RB1#0	7.73	9.83	17.56	0.06	7.00	Pass
			RB15#0	7.52	9.83	17.35	0.05	7.00	Pass
	MCH	QPSK	RB1#0	8.14	9.83	17.97	0.06	7.00	Pass
			RB15#0	7.07	9.83	16.90	0.05	7.00	Pass
		16-QAM	RB1#0	7.18	9.83	17.01	0.05	7.00	Pass
			RB15#0	7.83	9.83	17.66	0.06	7.00	Pass
	HCH	QPSK	RB1#0	7.76	9.83	17.59	0.06	7.00	Pass
			RB15#0	7.27	9.83	17.10	0.05	7.00	Pass
		16-QAM	RB1#0	8.11	9.83	17.94	0.06	7.00	Pass
			RB15#0	7.57	9.83	17.40	0.05	7.00	Pass
5 MHz	LCH	QPSK	RB1#0	7.93	9.83	17.76	0.06	7.00	Pass
			RB25#0	7.1	9.83	16.93	0.05	7.00	Pass
		16-QAM	RB1#0	7.71	9.83	17.54	0.06	7.00	Pass
			RB25#0	7.34	9.83	17.17	0.05	7.00	Pass
	MCH	QPSK	RB1#0	7.69	9.83	17.52	0.06	7.00	Pass
			RB25#0	7.34	9.83	17.17	0.05	7.00	Pass
		16-QAM	RB1#0	7.36	9.83	17.19	0.05	7.00	Pass
			RB25#0	7.4	9.83	17.23	0.05	7.00	Pass
	HCH	QPSK	RB1#0	7.74	9.83	17.57	0.06	7.00	Pass
			RB25#0	7.64	9.83	17.47	0.06	7.00	Pass
		16-QAM	RB1#0	8.14	9.83	17.97	0.06	7.00	Pass
			RB25#0	7.44	9.83	17.27	0.05	7.00	Pass
10 MHz	LCH	QPSK	RB1#0	7.97	9.83	17.80	0.06	7.00	Pass
			RB50#0	7.3	9.83	17.13	0.05	7.00	Pass
		16-QAM	RB1#0	8.05	9.83	17.88	0.06	7.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	SA Read Value (dBm)	Correction Factor(dB)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5									
	MCH	QPSK	RB50#0	7.46	9.83	17.29	0.05	7.00	Pass
			RB1#0	8.21	9.83	18.04	0.06	7.00	Pass
			RB50#0	7.29	9.83	17.12	0.05	7.00	Pass
		16-QAM	RB1#0	7.3	9.83	17.13	0.05	7.00	Pass
			RB50#0	7.76	9.83	17.59	0.06	7.00	Pass
		QPSK	RB1#0	7.91	9.83	17.74	0.06	7.00	Pass
			RB50#0	7.23	9.83	17.06	0.05	7.00	Pass
			RB1#0	7.7	9.83	17.53	0.06	7.00	Pass
	HCH	16-QAM	RB50#0	7.5	9.83	17.33	0.05	7.00	Pass
		QPSK							

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	SA Read Value (dBm)	Correction Factor(dB)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND7									
5 MHz	LCH	QPSK	RB1#0	1.19	19.5	20.69	0.12	2.00	Pass
			RB25#0	0.03	19.5	19.53	0.09	2.00	Pass
		16-QAM	RB1#0	0.87	19.5	20.37	0.11	2.00	Pass
			RB25#0	-0.16	19.5	19.34	0.09	2.00	Pass
	MCH	QPSK	RB1#0	1	19.5	20.50	0.11	2.00	Pass
			RB25#0	0.1	19.5	19.60	0.09	2.00	Pass
		16-QAM	RB1#0	0.44	19.5	19.94	0.10	2.00	Pass
			RB25#0	-0.5	19.5	19.00	0.08	2.00	Pass
	HCH	QPSK	RB1#0	0.84	19.5	20.34	0.11	2.00	Pass
			RB25#0	0.35	19.5	19.85	0.10	2.00	Pass
		16-QAM	RB1#0	1.21	19.5	20.71	0.12	2.00	Pass
			RB25#0	0.46	19.5	19.96	0.10	2.00	Pass
10 MHz	LCH	QPSK	RB1#0	1.01	19.5	20.51	0.11	2.00	Pass
			RB50#0	0.09	19.5	19.59	0.09	2.00	Pass
		16-QAM	RB1#0	0.97	19.5	20.47	0.11	2.00	Pass
			RB50#0	0.28	19.5	19.78	0.10	2.00	Pass
	MCH	QPSK	RB1#0	0.66	19.5	20.16	0.10	2.00	Pass
			RB50#0	0.21	19.5	19.71	0.09	2.00	Pass
		16-QAM	RB1#0	0.09	19.5	19.59	0.09	2.00	Pass
			RB50#0	-0.58	19.5	18.92	0.08	2.00	Pass
	HCH	QPSK	RB1#0	0.77	19.5	20.27	0.11	2.00	Pass
			RB50#0	0.48	19.5	19.98	0.10	2.00	Pass
		16-QAM	RB1#0	1.03	19.5	20.53	0.11	2.00	Pass
			RB50#0	0.55	19.5	20.05	0.10	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	1.21	19.5	20.71	0.12	2.00	Pass
			RB75#0	0.41	19.5	19.91	0.10	2.00	Pass
		16-QAM	RB1#0	0.65	19.5	20.15	0.10	2.00	Pass
			RB75#0	0.24	19.5	19.74	0.09	2.00	Pass
	MCH	QPSK	RB1#0	0.99	19.5	20.49	0.11	2.00	Pass
			RB75#0	0.05	19.5	19.55	0.09	2.00	Pass
		16-QAM	RB1#0	0.28	19.5	19.78	0.10	2.00	Pass
			RB75#0	-0.35	19.5	19.15	0.08	2.00	Pass
	HCH	QPSK	RB1#0	1.2	19.5	20.70	0.12	2.00	Pass
			RB75#0	0.56	19.5	20.06	0.10	2.00	Pass
		16-QAM	RB1#0	1.15	19.5	20.65	0.12	2.00	Pass
			RB75#0	0.52	19.5	20.02	0.10	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	1.03	19.5	20.53	0.11	2.00	Pass
			RB100#0	0.38	19.5	19.88	0.10	2.00	Pass
		16-QAM	RB1#0	0.8	19.5	20.30	0.11	2.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	SA Read Value (dBm)	Correction Factor(dB)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND7									
	MCH	QPSK	RB100#0	-0.13	19.5	19.37	0.09	2.00	Pass
			RB1#0	1.06	19.5	20.56	0.11	2.00	Pass
		16-QAM	RB100#0	0.4	19.5	19.90	0.10	2.00	Pass
			RB1#0	0.06	19.5	19.56	0.09	2.00	Pass
	HCH	QPSK	RB100#0	-0.46	19.5	19.04	0.08	2.00	Pass
			RB1#0	0.94	19.5	20.44	0.11	2.00	Pass
		16-QAM	RB100#0	0.2	19.5	19.70	0.09	2.00	Pass
			RB1#0	0.76	19.5	20.26	0.11	2.00	Pass
		16-QAM	RB100#0	0.56	19.5	20.06	0.10	2.00	Pass
			RB1#0	0.56	19.5	20.06	0.10	2.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	SA Read Value (dBm)	Correction Factor(dB)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND17									
5 MHz	LCH	QPSK	RB1#0	10.09	8.1	18.19	0.07	3.00	Pass
			RB25#0	9.2	8.1	17.30	0.05	3.00	Pass
		16-QAM	RB1#0	9.09	8.1	17.19	0.05	3.00	Pass
			RB25#0	8.44	8.1	16.54	0.05	3.00	Pass
	MCH	QPSK	RB1#0	9.68	8.1	17.78	0.06	3.00	Pass
			RB25#0	9.4	8.1	17.50	0.06	3.00	Pass
		16-QAM	RB1#0	8.16	8.1	16.26	0.04	3.00	Pass
			RB25#0	8.54	8.1	16.64	0.05	3.00	Pass
	HCH	QPSK	RB1#0	9.79	8.1	17.89	0.06	3.00	Pass
			RB25#0	9.5	8.1	17.60	0.06	3.00	Pass
		16-QAM	RB1#0	9.11	8.1	17.21	0.05	3.00	Pass
			RB25#0	8.59	8.1	16.69	0.05	3.00	Pass
10 MHz	LCH	QPSK	RB1#0	10.02	8.1	18.12	0.06	3.00	Pass
			RB50#0	9.07	8.1	17.17	0.05	3.00	Pass
		16-QAM	RB1#0	8.71	8.1	16.81	0.05	3.00	Pass
			RB50#0	8.27	8.1	16.37	0.04	3.00	Pass
	MCH	QPSK	RB1#0	9.92	8.1	18.02	0.06	3.00	Pass
			RB50#0	9.01	8.1	17.11	0.05	3.00	Pass
		16-QAM	RB1#0	8.38	8.1	16.48	0.04	3.00	Pass
			RB50#0	8.65	8.1	16.75	0.05	3.00	Pass
	HCH	QPSK	RB1#0	9.96	8.1	18.06	0.06	3.00	Pass
			RB50#0	9.3	8.1	17.40	0.05	3.00	Pass
		16-QAM	RB1#0	8.83	8.1	16.93	0.05	3.00	Pass
			RB50#0	8.69	8.1	16.79	0.05	3.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	SA Read Value (dBm)	Correction Factor(dB)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND41									
5 MHz	LCH	QPSK	RB1#0	1.13	19.5	20.63	0.12	2.00	Pass
			RB25#0	0.54	19.5	20.04	0.10	2.00	Pass
		16-QAM	RB1#0	0.97	19.5	20.47	0.11	2.00	Pass
			RB25#0	-0.15	19.5	19.35	0.09	2.00	Pass
	MCH	QPSK	RB1#0	0.83	19.5	20.33	0.11	2.00	Pass
			RB25#0	0.06	19.5	19.56	0.09	2.00	Pass
		16-QAM	RB1#0	0.24	19.5	19.74	0.09	2.00	Pass
			RB25#0	-0.44	19.5	19.06	0.08	2.00	Pass
	HCH	QPSK	RB1#0	0.67	19.5	20.17	0.10	2.00	Pass
			RB25#0	0.32	19.5	19.82	0.10	2.00	Pass
		16-QAM	RB1#0	0.82	19.5	20.32	0.11	2.00	Pass
			RB25#0	0.78	19.5	20.28	0.11	2.00	Pass
10 MHz	LCH	QPSK	RB1#0	1.12	19.5	20.62	0.12	2.00	Pass
			RB50#0	0.32	19.5	19.82	0.10	2.00	Pass
		16-QAM	RB1#0	0.97	19.5	20.47	0.11	2.00	Pass
			RB50#0	0.09	19.5	19.59	0.09	2.00	Pass
	MCH	QPSK	RB1#0	0.69	19.5	20.19	0.10	2.00	Pass
			RB50#0	0.4	19.5	19.90	0.10	2.00	Pass
		16-QAM	RB1#0	0.36	19.5	19.86	0.10	2.00	Pass
			RB50#0	-0.47	19.5	19.03	0.08	2.00	Pass
	HCH	QPSK	RB1#0	1.19	19.5	20.69	0.12	2.00	Pass
			RB50#0	0.19	19.5	19.69	0.09	2.00	Pass
		16-QAM	RB1#0	0.78	19.5	20.28	0.11	2.00	Pass
			RB50#0	0.6	19.5	20.10	0.10	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	0.86	19.5	20.36	0.11	2.00	Pass
			RB75#0	0.14	19.5	19.64	0.09	2.00	Pass
		16-QAM	RB1#0	0.59	19.5	20.09	0.10	2.00	Pass
			RB75#0	0.05	19.5	19.55	0.09	2.00	Pass
	MCH	QPSK	RB1#0	0.81	19.5	20.31	0.11	2.00	Pass
			RB75#0	0.14	19.5	19.64	0.09	2.00	Pass
		16-QAM	RB1#0	0.51	19.5	20.01	0.10	2.00	Pass
			RB75#0	-0.34	19.5	19.16	0.08	2.00	Pass
	HCH	QPSK	RB1#0	1.01	19.5	20.51	0.11	2.00	Pass
			RB75#0	0.64	19.5	20.14	0.10	2.00	Pass
		16-QAM	RB1#0	0.72	19.5	20.22	0.11	2.00	Pass
			RB75#0	0.41	19.5	19.91	0.10	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	1.19	19.5	20.69	0.12	2.00	Pass
			RB100#0	0.31	19.5	19.81	0.10	2.00	Pass
		16-QAM	RB1#0	0.59	19.5	20.09	0.10	2.00	Pass

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	SA Read Value (dBm)	Correction Factor(dB)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND41									
	MCH	QPSK	RB100#0	0.04	19.5	19.54	0.09	2.00	Pass
			RB1#0	0.86	19.5	20.36	0.11	2.00	Pass
		16-QAM	RB100#0	0.22	19.5	19.72	0.09	2.00	Pass
			RB1#0	0.46	19.5	19.96	0.10	2.00	Pass
	HCH	QPSK	RB100#0	-0.62	19.5	18.88	0.08	2.00	Pass
			RB1#0	0.75	19.5	20.25	0.11	2.00	Pass
		16-QAM	RB100#0	0.68	19.5	20.18	0.10	2.00	Pass
			RB1#0	1.09	19.5	20.59	0.11	2.00	Pass
			RB100#0	0.35	19.5	19.85	0.10	2.00	Pass

A.2 Peak to Average Ratio

Note 1: For average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. For GSM, GPRS and EGPRS, there are peak power to demonstrate compliance, PAR measurements are not required.

Note 2: Test plots please refer to the document "Annex No.:BL-EC17C0360-501 Data Part 1.pdf".

WCDMA Mode Test Data

Test Band	Test Channel	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
Band 2	LCH	3.30	13	1.1	Pass
	MCH	3.04	13	1.2	Pass
	HCH	3.04	13	1.3	Pass

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Model	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
LTE Band 2	20 MHz	LCH	QPSK	RB1#0	4.49	13	2.1	Pass
				RB100#0	4.75	13	2.2	Pass
			16-QAM	RB1#0	5.36	13	2.3	Pass
				RB100#0	5.80	13	2.4	Pass
		MCH	QPSK	RB1#0	4.09	13	2.5	Pass
				RB100#0	4.49	13	2.6	Pass
			16-QAM	RB1#0	4.99	13	2.7	Pass
				RB100#0	5.54	13	2.8	Pass
		HCH	QPSK	RB1#0	4.06	13	2.9	Pass
				RB100#0	4.67	13	2.10	Pass
			16-QAM	RB1#0	5.31	13	2.11	Pass
				RB100#0	5.71	13	2.12	Pass
LTE Band 4	20 MHz	LCH	QPSK	RB1#0	3.91	13	3.1	Pass
				RB100#0	4.67	13	3.2	Pass
			16-QAM	RB1#0	4.67	13	3.3	Pass
				RB100#0	5.74	13	3.4	Pass
		MCH	QPSK	RB1#0	4.29	13	3.5	Pass
				RB100#0	4.81	13	3.6	Pass
			16-QAM	RB1#0	5.22	13	3.7	Pass
				RB100#0	5.86	13	3.8	Pass
		HCH	QPSK	RB1#0	4.29	13	3.9	Pass
				RB100#0	4.58	13	3.1	Pass
			16-QAM	RB1#0	5.13	13	3.11	Pass
				RB100#0	5.65	13	3.12	Pass
LTE Band 5	10 MHz	LCH	QPSK	RB1#0	3.65	13	4.1	Pass
				RB50#0	4.90	13	4.2	Pass

Test Band	Test Bandwidth	Test Channel	Test Model	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
			16-QAM	RB1#0	4.61	13	4.3	Pass
				RB50#0	5.83	13	4.4	Pass
		MCH	QPSK	RB1#0	3.59	13	4.5	Pass
				RB50#0	4.72	13	4.6	Pass
			16-QAM	RB1#0	4.55	13	4.7	Pass
				RB50#0	5.77	13	4.8	Pass
		HCH	QPSK	RB1#0	3.68	13	4.9	Pass
				RB50#0	4.78	13	4.1	Pass
			16-QAM	RB1#0	4.58	13	4.11	Pass
				RB50#0	5.80	13	4.12	Pass
LTE Band 7	20 MHz	LCH	QPSK	RB1#0	4.03	13	5.1	Pass
				RB100#0	4.43	13	5.2	Pass
			16-QAM	RB1#0	4.75	13	5.3	Pass
				RB100#0	5.54	13	5.4	Pass
		MCH	QPSK	RB1#0	4.26	13	5.5	Pass
				RB100#0	4.61	13	5.6	Pass
			16-QAM	RB1#0	5.16	13	5.7	Pass
				RB100#0	5.59	13	5.8	Pass
		HCH	QPSK	RB1#0	4.17	13	5.9	Pass
				RB100#0	4.67	13	5.1	Pass
			16-QAM	RB1#0	5.13	13	5.11	Pass
				RB100#0	5.65	13	5.12	Pass
LTE Band 17	10 MHz	LCH	QPSK	RB1#0	4.72	13	6.1	Pass
				RB50#0	5.13	13	6.2	Pass
			16-QAM	RB1#0	5.68	13	6.3	Pass
				RB50#0	6.17	13	6.4	Pass
		MCH	QPSK	RB1#0	4.58	13	6.5	Pass
				RB50#0	5.13	13	6.6	Pass
			16-QAM	RB1#0	5.36	13	6.7	Pass
				RB50#0	6.17	13	6.8	Pass
		HCH	QPSK	RB1#0	4.70	13	6.9	Pass
				RB50#0	5.10	13	6.1	Pass
			16-QAM	RB1#0	5.80	13	6.11	Pass
				RB50#0	6.17	13	6.12	Pass
LTE Band 41	20 MHz	LCH	QPSK	RB1#0	8.06	13	7.1	Pass
				RB100#0	8.52	13	7.2	Pass
			16-QAM	RB1#0	9.16	13	7.3	Pass
				RB100#0	9.10	13	7.4	Pass
		MCH	QPSK	RB1#0	8.41	13	7.5	Pass
				RB100#0	8.46	13	7.6	Pass

Test Band	Test Bandwidth	Test Channel	Test Model	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
			16-QAM	RB1#0	8.87	13	7.7	Pass
				RB100#0	9.01	13	7.8	Pass
		HCH	QPSK	RB1#0	8.00	13	7.9	Pass
				RB100#0	7.94	13	7.1	Pass
			16-QAM	RB1#0	8.75	13	7.11	Pass
				RB100#0	9.22	13	7.12	Pass

A.3 Occupied Bandwidth

Note 1: All modes were tested, but only the typical data were reported in this report.

Note 2: Test plots please refer to the document “Annex No.: BL-EC17C0360-501 Data Part 2.pdf”.

GSM, CDMA and WCDMA Mode Test Data

Test Band	Test Channel	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
GSM 850	LCH	0.25	0.31	1.1
	MCH	0.24	0.31	1.2
	HCH	0.24	0.31	1.3
GSM 1900	LCH	0.25	0.31	2.1
	MCH	0.25	0.31	2.2
	HCH	0.25	0.31	2.3
EGPRS 850	LCH	0.24	0.31	3.1
	MCH	0.24	0.31	3.2
	HCH	0.24	0.30	3.3
EGPRS 1900	LCH	0.25	0.31	4.1
	MCH	0.24	0.31	4.2
	HCH	0.25	0.31	4.3
CDMA BC0	LCH	1.28	1.42	5.1
	MCH	1.27	1.43	5.2
	HCH	1.28	1.44	5.3
EVDO BC0	LCH	1.27	1.43	6.1
	MCH	1.27	1.42	6.2
	HCH	1.27	1.43	6.3
WCDMA Band 2	LCH	4.10	4.66	7.1
	MCH	4.11	4.69	7.2
	HCH	4.10	4.69	7.3
WCDMA Band 5	LCH	4.11	4.68	8.1
	MCH	4.10	4.67	8.2
	HCH	4.11	4.69	8.3

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
Band 2	1.4 MHz	LCH	QPSK	RB6#0	1.07	1.24	9.1
			16-QAM	RB6#0	1.08	1.25	9.2
		MCH	QPSK	RB6#0	1.07	1.24	9.3
			16-QAM	RB6#0	1.07	1.22	9.4
		HCH	QPSK	RB6#0	1.08	1.25	9.5
			16-QAM	RB6#0	1.08	1.24	9.6
	3 MHz	LCH	QPSK	RB15#0	2.68	2.90	9.7
			16-QAM	RB15#0	2.67	2.91	9.8
		MCH	QPSK	RB15#0	2.68	2.91	9.9
			16-QAM	RB15#0	2.67	2.95	9.10
		HCH	QPSK	RB15#0	2.68	2.93	9.11
			16-QAM	RB15#0	2.68	2.92	9.12
	5 MHz	LCH	QPSK	RB25#0	4.45	4.93	9.13
			16-QAM	RB25#0	4.46	4.90	9.14
		MCH	QPSK	RB25#0	4.46	4.90	9.15
			16-QAM	RB25#0	4.46	4.85	9.16
		HCH	QPSK	RB25#0	4.45	4.89	9.17
			16-QAM	RB25#0	4.45	4.91	9.18
	10 MHz	LCH	QPSK	RB50#0	8.92	9.67	9.19
			16-QAM	RB50#0	8.92	9.61	9.20
		MCH	QPSK	RB50#0	8.91	9.64	9.21
			16-QAM	RB50#0	8.91	9.57	9.22
		HCH	QPSK	RB50#0	8.91	9.69	9.23
			16-QAM	RB50#0	8.91	9.63	9.24
	15 MHz	LCH	QPSK	RB75#0	13.34	14.35	9.25
			16-QAM	RB75#0	13.36	14.40	9.26
		MCH	QPSK	RB75#0	13.34	14.32	9.27
			16-QAM	RB75#0	13.35	14.35	9.28
		HCH	QPSK	RB75#0	13.36	14.46	9.29
			16-QAM	RB75#0	13.35	14.41	9.3
	20 MHz	LCH	QPSK	RB100#0	17.77	18.92	9.31
			16-QAM	RB100#0	17.82	19.10	9.32
		MCH	QPSK	RB100#0	17.80	19.02	9.33
			16-QAM	RB100#0	17.83	19.12	9.34
		HCH	QPSK	RB100#0	17.81	19.26	9.35
			16-QAM	RB100#0	17.80	18.92	9.36

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
Band 4	1.4 MHz	LCH	QPSK	RB6#0	1.07	1.24	10.1
			16-QAM	RB6#0	1.07	1.25	10.2
		MCH	QPSK	RB6#0	1.07	1.25	10.3
			16-QAM	RB6#0	1.07	1.25	10.4
		HCH	QPSK	RB6#0	1.08	1.24	10.5
			16-QAM	RB6#0	1.08	1.24	10.6
	3 MHz	LCH	QPSK	RB15#0	2.68	2.94	10.7
			16-QAM	RB15#0	2.67	2.95	10.8
		MCH	QPSK	RB15#0	2.68	2.89	10.9
			16-QAM	RB15#0	2.68	2.92	10.10
		HCH	QPSK	RB15#0	2.68	2.94	10.11
			16-QAM	RB15#0	2.68	2.92	10.12
	5 MHz	LCH	QPSK	RB25#0	4.46	4.88	10.13
			16-QAM	RB25#0	4.46	4.84	10.14
		MCH	QPSK	RB25#0	4.46	4.87	10.15
			16-QAM	RB25#0	4.46	4.91	10.16
		HCH	QPSK	RB25#0	4.46	4.90	10.17
			16-QAM	RB25#0	4.46	4.94	10.18
	10 MHz	LCH	QPSK	RB50#0	8.91	9.64	10.19
			16-QAM	RB50#0	8.91	9.60	10.20
		MCH	QPSK	RB50#0	8.92	9.63	10.21
			16-QAM	RB50#0	8.92	9.59	10.22
		HCH	QPSK	RB50#0	8.92	9.66	10.23
			16-QAM	RB50#0	8.91	9.61	10.24
	15 MHz	LCH	QPSK	RB75#0	13.35	14.36	10.25
			16-QAM	RB75#0	13.34	14.33	10.26
		MCH	QPSK	RB75#0	13.34	14.35	10.27
			16-QAM	RB75#0	13.37	14.40	10.28
		HCH	QPSK	RB75#0	13.32	14.38	10.29
			16-QAM	RB75#0	13.34	14.40	10.30
	20 MHz	LCH	QPSK	RB100#0	17.81	18.94	10.31
			16-QAM	RB100#0	17.79	20.39	10.32
		MCH	QPSK	RB100#0	17.81	19.06	10.33
			16-QAM	RB100#0	17.85	19.21	10.34
		HCH	QPSK	RB100#0	17.78	19.12	10.35
			16-QAM	RB100#0	17.76	18.98	10.36

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
Band 5	1.4 MHz	LCH	QPSK	RB6#0	1.07	1.23	11.1
			16-QAM	RB6#0	1.08	1.25	11.2
		MCH	QPSK	RB6#0	1.07	1.23	11.3
			16-QAM	RB6#0	1.08	1.2	11.4
		HCH	QPSK	RB6#0	1.08	1.25	11.5
			16-QAM	RB6#0	1.08	1.24	11.6
	3 MHz	LCH	QPSK	RB15#0	2.68	2.90	11.7
			16-QAM	RB15#0	2.68	2.94	11.8
		MCH	QPSK	RB15#0	2.68	2.92	11.9
			16-QAM	RB15#0	2.67	2.94	11.10
		HCH	QPSK	RB15#0	2.68	2.93	11.11
			16-QAM	RB15#0	2.67	2.91	11.12
	5 MHz	LCH	QPSK	RB25#0	4.47	4.89	11.13
			16-QAM	RB25#0	4.46	4.87	11.14
		MCH	QPSK	RB25#0	4.46	4.91	11.15
			16-QAM	RB25#0	4.46	4.89	11.16
		HCH	QPSK	RB25#0	4.46	4.91	11.17
			16-QAM	RB25#0	4.46	4.93	11.18
	10 MHz	LCH	QPSK	RB50#0	8.93	9.72	11.19
			16-QAM	RB50#0	8.93	9.63	11.20
		MCH	QPSK	RB50#0	8.91	9.63	11.21
			16-QAM	RB50#0	8.92	9.61	11.22
		HCH	QPSK	RB50#0	8.93	9.71	11.23
			16-QAM	RB50#0	8.93	9.63	11.24

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
Band 7	5 MHz	LCH	QPSK	RB25#0	4.47	4.9	12.1
			16-QAM	RB25#0	4.46	4.85	12.2
		MCH	QPSK	RB25#0	4.46	4.89	12.3
			16-QAM	RB25#0	4.46	4.89	12.4
		HCH	QPSK	RB25#0	4.46	4.86	12.5
			16-QAM	RB25#0	4.46	4.94	12.6
	10 MHz	LCH	QPSK	RB50#0	8.92	9.70	12.7
			16-QAM	RB50#0	8.92	9.60	12.8
		MCH	QPSK	RB50#0	8.91	9.66	12.9
			16-QAM	RB50#0	8.92	9.55	12.10
		HCH	QPSK	RB50#0	8.92	9.64	12.11
			16-QAM	RB50#0	8.92	9.65	12.12
	15 MHz	LCH	QPSK	RB75#0	13.37	14.53	12.13
			16-QAM	RB75#0	13.35	14.37	12.14
		MCH	QPSK	RB75#0	13.35	14.35	12.15
			16-QAM	RB75#0	13.37	14.41	12.16
		HCH	QPSK	RB75#0	13.36	14.39	12.17
			16-QAM	RB75#0	13.37	14.44	12.18
	20 MHz	LCH	QPSK	RB100#0	17.79	18.96	12.19
			16-QAM	RB100#0	17.80	19.10	12.20
		MCH	QPSK	RB100#0	17.81	19.05	12.21
			16-QAM	RB100#0	17.85	19.15	12.22
		HCH	QPSK	RB100#0	17.83	19.22	12.23
			16-QAM	RB100#0	17.79	19.08	12.24

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
Band 17	5 MHz	LCH	QPSK	RB25#0	4.46	4.91	13.1
			16-QAM	RB25#0	4.46	4.88	13.2
		MCH	QPSK	RB25#0	4.45	4.90	13.3
			16-QAM	RB25#0	4.46	4.86	13.4
		HCH	QPSK	RB25#0	4.46	4.84	13.5
			16-QAM	RB25#0	4.46	4.92	13.6
	10 MHz	LCH	QPSK	RB50#0	8.92	9.72	13.7
			16-QAM	RB50#0	8.91	9.67	13.8
		MCH	QPSK	RB50#0	8.92	9.63	13.9
			16-QAM	RB50#0	8.91	9.58	13.10
		HCH	QPSK	RB50#0	8.91	9.65	13.11
			16-QAM	RB50#0	8.91	9.62	13.12

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
Band 41	5 MHz	LCH	QPSK	RB25#0	4.46	4.91	14.1
			16-QAM	RB25#0	4.46	4.89	14.2
		MCH	QPSK	RB25#0	4.47	4.89	14.3
			16-QAM	RB25#0	4.45	4.89	14.4
		HCH	QPSK	RB25#0	4.46	4.84	14.5
			16-QAM	RB25#0	4.46	4.93	14.6
	10 MHz	LCH	QPSK	RB50#0	8.92	9.63	14.7
			16-QAM	RB50#0	8.91	9.65	14.8
		MCH	QPSK	RB50#0	8.91	9.73	14.9
			16-QAM	RB50#0	8.92	9.56	14.10
		HCH	QPSK	RB50#0	8.92	9.84	14.11
			16-QAM	RB50#0	8.90	9.59	14.12
	15 MHz	LCH	QPSK	RB75#0	13.36	14.70	14.13
			16-QAM	RB75#0	13.37	14.77	14.14
		MCH	QPSK	RB75#0	13.35	14.41	14.15
			16-QAM	RB75#0	13.4	14.57	14.16
		HCH	QPSK	RB75#0	13.38	15.18	14.17
			16-QAM	RB75#0	13.39	15.00	14.18
	20 MHz	LCH	QPSK	RB100#0	17.81	18.88	14.19
			16-QAM	RB100#0	17.76	19.07	14.20
		MCH	QPSK	RB100#0	17.81	19.08	14.21
			16-QAM	RB100#0	17.82	19.32	14.22
		HCH	QPSK	RB100#0	17.81	19.61	14.23
			16-QAM	RB100#0	17.80	19.05	14.24

A.4 Frequency Stability

GSM 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-20	6.13	±2060.5	8.2	±2091.5	4.94	±2122	Pass
	-15	1.81		2.71		6.39		
	-10	5.07		0.84		10.11		
	0	5.55		8.91		8.78		
	10	-0.26		5.62		3.84		
	20	4.94		4.52		5.00		
	25	1.42		5.84		4.36		
	30	3.00		3.42		4.94		
	40	1.26		6.59		4.07		
	50	3.16		3.58		6.68		
3.7	25	5.42		3.84		2.84		
4.35	25	0.58		2.78		4.26		

GSM 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-20	5.52	±4625.5	3.55	±4700.0	5.23	±4774.5	Pass
	-15	2.97		0.03		0.84		
	-10	6.97		1.03		8.07		
	0	11.78		0.16		3.42		
	10	5		3.23		0.16		
	20	4.78		0.97		5.71		
	25	11.36		-0.39		1.03		
	30	-0.65		2.91		4.94		
	40	2.68		5.65		6.17		
	50	3.16		-1.39		1.81		
3.7	25	7.01		8.17		7.59		
4.35	25	-3.13		0.36		3.94		

GPRS 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-20	17.6	±2060.5	16.92	±2091.5	17.79	±2122	Pass
	-15	16.89		15.11		17.21		
	-10	18.82		16.43		19.21		
	0	16.79		15.88		16.14		
	10	17.43		15.11		18.08		
	20	17.72		14.59		14.14		
	25	16.85		14.04		19.24		
	30	17.4		15.82		17.56		
	40	17.69		16.98		16.63		
	50	17.18		14.98		20.24		
3.7	25	17.82		18.98		16.85		
4.35	25	18.4		16.82		17.24		

GPRS 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-20	24.8	±4625.5	17.47	±4700.0	26.15	±4774.5	Pass
	-15	22.5		11.88		13.01		
	-10	22.05		10.14		8.65		
	0	13.43		18.5		8.52		
	10	19.47		6.62		13.75		
	20	29.61		8.91		5.04		
	25	23.67		0.19		-1.45		
	30	29.77		18.6		6.42		
	40	22.05		13.37		5.52		
	50	15.37		12.98		10.04		
3.7	25	9.69		28.67		22.57		
4.35	25	23.67		10.43		5.88		

EGPRS 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-20	18.47	±2060.5	18.98	±2091.5	25.28	±2122	Pass
	-15	22.89		23.6		19.92		
	-10	19.6		19.05		23.34		
	0	20.34		17.95		23.08		
	10	21.28		19.27		20.24		
	20	20.08		16.53		22.89		
	25	22.66		21.92		18.82		
	30	22.83		18.89		19.02		
	40	20.44		24.8		17.66		
	50	19.86		21.37		20.7		
3.7	25	21.57		21.89		17.95		
4.35	25	21.86		23.5		20.89		

EGPRS 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-20	27.51	±4625.5	13.69	±4700.0	8.91	±4774.5	Pass
	-15	19.69		15.53		11.43		
	-10	19.47		23.34		31.58		
	0	45.07		25.67		16.69		
	10	13.95		14.33		12.66		
	20	29.64		15.24		9.04		
	25	36.87		18.18		15.17		
	30	19.37		13.14		4.36		
	40	35.87		23.44		10.4		
	50	13.4		0.48		14.69		
3.7	25	40.94		29.61		36.42		
4.35	25	34.16		27.38		9.69		

CDMA BC0

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.70 MHz		MCH 836.52 MHz		HCH 848.31 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-20	0.44	±2061.75	0.88	±2091.3	-0.95	±2120.77 5	Pass
	-15	-0.15		1.54		0		
	-10	0.73		1.1		-1.1		
	0	0.73		0.59		0.66		
	10	0.95		-0.95		0.29		
	20	-0.07		-0.15		-1.25		
	25	-0.59		0.59		-0.07		
	30	-1.25		-0.66		0.15		
	40	0.95		-0.15		-0.51		
	50	-0.29		0.66		-0.95		
3.7	25	-1.61		1.32		-0.81		
4.35	25	-1.03		-0.73		0.44		

EVDO BC0

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.70 MHz		MCH 836.52 MHz		HCH 848.31 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-20	-1.54	±2061.75	0.88	±2091.3	-0.29	±2120.77 5	Pass
	-15	0.29		0.73		-0.44		
	-10	-1.9		-2.05		0.22		
	0	0.81		-1.68		-1.83		
	10	-0.51		0.81		-0.95		
	20	-0.59		-0.07		-0.51		
	25	-1.98		0.81		1.46		
	30	-1.61		1.03		1.17		
	40	-0.15		-1.46		-1.32		
	50	-1.32		0.73		0.37		
3.7	25	-0.07		-1.03		-1.46		
4.35	25	-2.27		-0.22		-0.88		

WCDMA Band 2

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1852.4 MHz		MCH 1880 MHz		HCH 1907.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-20	0.56	±4631	-0.75	±4700	-3.5	±4769	Pass
	-15	0.2		-0.8		-3.36		
	-10	1.04		-2.33		-2.5		
	0	0.04		0.26		-2.92		
	10	-0.28		-1.14		-2.15		
	20	1.45		-0.72		-3.49		
	25	0.44		-1.45		-2.94		
	30	0.13		-1.03		-3		
	40	-0.57		-0.8		-2.74		
	50	-0.18		-1.44		-2.35		
3.7	25	0.65		-1.25		-3.68		
4.35	25	-0.12		-0.94		-2.32		

WCDMA Band B5

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 826.4 MHz		MCH 836.4 MHz		HCH 846.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-20	0.81	±2066	-0.51	±2091	-0.69	±2116.5	Pass
	-15	0.41		-0.87		-1.34		
	-10	0.65		-0.35		-1.04		
	0	0.24		-0.56		-0.96		
	10	-0.45		-0.36		-0.82		
	20	0.92		-0.09		-0.97		
	25	0.39		-0.17		-1.22		
	30	0.24		-0.35		-1.09		
	40	0.44		-0.16		-1.2		
	50	0.66		0		-1.02		
3.7	25	0.01		0.1		-1.42		
4.35	25	0.54		-0.46		-1.2		

LTE Band 2 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-20	-3.99	±4700	Pass
	-15	-4.45		
	-10	-0.94		
	0	-4.33		
	10	-2.72		
	20	-2.27		
	25	-4.95		
	30	-4.08		
	40	-5.78		
	50	-3.93		
3.7	25	-4.59		
4.35	25	-3.25		

LTE Band 2 16-QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-20	-3.75	±4700	Pass
	-15	-3.79		
	-10	-1.86		
	0	-3.56		
	10	-1.09		
	20	-5.55		
	25	-2.12		
	30	-5.58		
	40	-3.69		
	50	-3.96		
3.7	25	-3.86		
4.35	25	-3.63		

LTE Band 4 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-20	-0.34	±4331.25	Pass
	-15	-0.24		
	-10	-0.16		
	0	-1.29		
	10	1.27		
	20	0.69		
	25	0.3		
	30	1.59		
	40	-0.66		
	50	-0.39		
3.7	25	0.47	±4331.25	Pass
4.35	25	-0.5		

LTE Band 4 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-20	0.44	±4331.25	Pass
	-15	0.14		
	-10	1		
	0	-0.29		
	10	0.11		
	20	1.36		
	25	-1.16		
	30	-0.2		
	40	1.03		
	50	0.13		
3.7	25	0.07	±4331.25	Pass
4.35	25	0.2		

LTE Band 5 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-20	-1.83	±2091.25	Pass
	-15	0.14		
	-10	-0.86		
	0	-0.9		
	10	-0.74		
	20	-1.52		
	25	-0.41		
	30	-0.1		
	40	-0.34		
	50	-1.22		
3.7	25	-0.84		
4.35	25	-1.2		

LTE Band 5 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-20	-0.13	±2091.25	Pass
	-15	-0.19		
	-10	-0.34		
	0	0.2		
	10	0.16		
	20	0.14		
	25	0.03		
	30	-0.11		
	40	-0.21		
	50	-0.8		
3.7	25	-1.23		
4.35	25	-0.89		

LTE Band 7 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-20	-3.68	±6337.5	Pass
	-15	-4.05		
	-10	-5.24		
	0	-2.49		
	10	-1.53		
	20	-3.42		
	25	-1.52		
	30	-2.98		
	40	-5.42		
	50	-3.46		
3.7	25	-3.81	±6337.5	Pass
4.35	25	-3.3		

LTE Band 7 16-QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-20	-3.19	±6337.5	Pass
	-15	-4.49		
	-10	-2.8		
	0	-2.69		
	10	-2.93		
	20	-5.54		
	25	-2.1		
	30	-3.58		
	40	-3.71		
	50	-3.15		
3.7	25	-3.4	±6337.5	Pass
4.35	25	-2.35		

LTE Band 17 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 710 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-20	0.03	±1775	Pass
	-15	-0.73		
	-10	-0.96		
	0	-0.36		
	10	-0.99		
	20	-0.03		
	25	1.62		
	30	-1.26		
	40	0.6		
	50	-0.57		
3.7	25	-0.69	±1775	Pass
4.35	25	-0.72		

LTE Band 17 16QAM10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 710 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-20	0.14	±1775	Pass
	-15	-0.29		
	-10	0.19		
	0	1.59		
	10	-1.86		
	20	0.23		
	25	-0.01		
	30	0.3		
	40	-0.67		
	50	-0.76		
3.7	25	0	±1775	Pass
4.35	25	0.07		

LTE Band 41 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2605 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-20	-2.26	±6512.5	Pass
	-15	4.48		
	-10	3.56		
	0	5.98		
	10	5.22		
	20	4.92		
	25	3.6		
	30	6.12		
	40	0.87		
	50	4.16		
3.7	25	6.51		
4.35	25	5.21		

LTE Band 41 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2605 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-20	-1.13	±6512.5	Pass
	-15	2.57		
	-10	4.18		
	0	2.26		
	10	1.75		
	20	-2		
	25	4.38		
	30	1.57		
	40	3.38		
	50	5.71		
3.7	25	3.53		
4.35	25	4.82		

A.5 Spurious Emission at Antenna Terminals

Note 1: GSM and EGPRS modes have been verified, and only the worst data with different bandwidth for LTE are shown here.

Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are MS carrier frequency.

Note 3: Test plots please refer to the document "Annex No.: BL-EC17C0360-501 Data Part 3.pdf".

GSM, CDMA and WCDMA Mode Test Data

Test Band	Test Channel	Refer to Plot ^{Note3}	Verdict
GSM 850	LCH	1.1	Pass
	MCH	1.2	Pass
	HCH	1.3	Pass
GSM 1900	LCH	2.1	Pass
	MCH	2.2	Pass
	HCH	2.3	Pass
EGPRS 850	LCH	3.1	Pass
	MCH	3.2	Pass
	HCH	3.3	Pass
EGPRS 1900	LCH	4.1	Pass
	MCH	4.2	Pass
	HCH	4.3	Pass
CDMA BC0	LCH	5.1	Pass
	MCH	5.2	Pass
	HCH	5.3	Pass
EVDO BC0	LCH	6.1	Pass
	MCH	6.2	Pass
	HCH	6.3	Pass
WCDMA Band 2	LCH	7.1	Pass
	MCH	7.2	Pass
	HCH	7.3	Pass
WCDMA Band 5	LCH	8.1	Pass
	MCH	8.2	Pass
	HCH	8.3	Pass

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 2	1.4 MHz	LCH	QPSK	RB1#0	9.1	Pass
			16-QAM	RB1#0	9.2	Pass
		MCH	QPSK	RB1#0	9.3	Pass
			16-QAM	RB1#0	9.4	Pass
		HCH	QPSK	RB1#0	9.5	Pass
			16-QAM	RB1#0	9.6	Pass
	3 MHz	LCH	QPSK	RB1#0	9.7	Pass
			16-QAM	RB1#0	9.8	Pass
		MCH	QPSK	RB1#0	9.9	Pass
			16-QAM	RB1#0	9.10	Pass
		HCH	QPSK	RB1#0	9.11	Pass
			16-QAM	RB1#0	9.12	Pass
	5 MHz	LCH	QPSK	RB1#0	9.13	Pass
			16-QAM	RB1#0	9.14	Pass
		MCH	QPSK	RB1#0	9.15	Pass
			16-QAM	RB1#0	9.16	Pass
		HCH	QPSK	RB1#0	9.17	Pass
			16-QAM	RB1#0	9.18	Pass
	10 MHz	LCH	QPSK	RB1#0	9.19	Pass
			16-QAM	RB1#0	9.20	Pass
		MCH	QPSK	RB1#0	9.21	Pass
			16-QAM	RB1#0	9.22	Pass
		HCH	QPSK	RB1#0	9.23	Pass
			16-QAM	RB1#0	9.24	Pass
	15 MHz	LCH	QPSK	RB1#0	9.25	Pass
			16-QAM	RB1#0	9.26	Pass
		MCH	QPSK	RB1#0	9.27	Pass
			16-QAM	RB1#0	9.28	Pass
		HCH	QPSK	RB1#0	9.29	Pass
			16-QAM	RB1#0	9.3	Pass
	20 MHz	LCH	QPSK	RB1#0	9.31	Pass
			16-QAM	RB1#0	9.32	Pass
		MCH	QPSK	RB1#0	9.33	Pass
			16-QAM	RB1#0	9.34	Pass
		HCH	QPSK	RB1#0	9.35	Pass
			16-QAM	RB1#0	9.36	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note2}	Verdict
Band 4	1.4 MHz	LCH	QPSK	RB1#0	10.1	Pass
			16-QAM	RB1#0	10.2	Pass
		MCH	QPSK	RB1#0	10.3	Pass
			16-QAM	RB1#0	10.4	Pass
		HCH	QPSK	RB1#0	10.5	Pass
			16-QAM	RB1#0	10.6	Pass
	3 MHz	LCH	QPSK	RB1#0	10.7	Pass
			16-QAM	RB1#0	10.8	Pass
		MCH	QPSK	RB1#0	10.9	Pass
			16-QAM	RB1#0	10.10	Pass
		HCH	QPSK	RB1#0	10.11	Pass
			16-QAM	RB1#0	10.12	Pass
	5 MHz	LCH	QPSK	RB1#0	10.13	Pass
			16-QAM	RB1#0	10.14	Pass
		MCH	QPSK	RB1#0	10.15	Pass
			16-QAM	RB1#0	10.16	Pass
		HCH	QPSK	RB1#0	10.17	Pass
			16-QAM	RB1#0	10.18	Pass
	10 MHz	LCH	QPSK	RB1#0	10.19	Pass
			16-QAM	RB1#0	10.20	Pass
		MCH	QPSK	RB1#0	10.21	Pass
			16-QAM	RB1#0	10.22	Pass
		HCH	QPSK	RB1#0	10.23	Pass
			16-QAM	RB1#0	10.24	Pass
	15 MHz	LCH	QPSK	RB1#0	10.25	Pass
			16-QAM	RB1#0	10.26	Pass
		MCH	QPSK	RB1#0	10.27	Pass
			16-QAM	RB1#0	10.28	Pass
		HCH	QPSK	RB1#0	10.29	Pass
			16-QAM	RB1#0	10.30	Pass
	20 MHz	LCH	QPSK	RB1#0	10.31	Pass
			16-QAM	RB1#0	10.32	Pass
		MCH	QPSK	RB1#0	10.33	Pass
			16-QAM	RB1#0	10.34	Pass
		HCH	QPSK	RB1#0	10.35	Pass
			16-QAM	RB1#0	10.36	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note2}	Verdict
Band 5	1.4 MHz	LCH	QPSK	RB1#0	11.1	Pass
			16-QAM	RB1#0	11.2	Pass
		MCH	QPSK	RB1#0	11.3	Pass
			16-QAM	RB1#0	11.4	Pass
		HCH	QPSK	RB1#0	11.5	Pass
			16-QAM	RB1#0	11.6	Pass
	3 MHz	LCH	QPSK	RB1#0	11.7	Pass
			16-QAM	RB1#0	11.8	Pass
		MCH	QPSK	RB1#0	11.9	Pass
			16-QAM	RB1#0	11.10	Pass
		HCH	QPSK	RB1#0	11.11	Pass
			16-QAM	RB1#0	11.12	Pass
	5 MHz	LCH	QPSK	RB1#0	11.13	Pass
			16-QAM	RB1#0	11.14	Pass
		MCH	QPSK	RB1#0	11.15	Pass
			16-QAM	RB1#0	11.16	Pass
		HCH	QPSK	RB1#0	11.17	Pass
			16-QAM	RB1#0	11.18	Pass
	10 MHz	LCH	QPSK	RB1#0	11.19	Pass
			16-QAM	RB1#0	11.20	Pass
		MCH	QPSK	RB1#0	11.21	Pass
			16-QAM	RB1#0	11.22	Pass
		HCH	QPSK	RB1#0	11.23	Pass
			16-QAM	RB1#0	11.24	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note2}	Verdict
Band 7	5 MHz	LCH	QPSK	RB1#0	12.1	Pass
			16-QAM	RB1#0	12.2	Pass
		MCH	QPSK	RB1#0	12.3	Pass
			16-QAM	RB1#0	12.4	Pass
		HCH	QPSK	RB1#0	12.5	Pass
			16-QAM	RB1#0	12.6	Pass
	10 MHz	LCH	QPSK	RB1#0	12.7	Pass
			16-QAM	RB1#0	12.8	Pass
		MCH	QPSK	RB1#0	12.9	Pass
			16-QAM	RB1#0	12.10	Pass
		HCH	QPSK	RB1#0	12.11	Pass
			16-QAM	RB1#0	12.12	Pass
	15 MHz	LCH	QPSK	RB1#0	12.13	Pass
			16-QAM	RB1#0	12.14	Pass
		MCH	QPSK	RB1#0	12.15	Pass
			16-QAM	RB1#0	12.16	Pass
		HCH	QPSK	RB1#0	12.17	Pass
			16-QAM	RB1#0	12.18	Pass
	20 MHz	LCH	QPSK	RB1#0	12.19	Pass
			16-QAM	RB1#0	12.20	Pass
		MCH	QPSK	RB1#0	12.21	Pass
			16-QAM	RB1#0	12.22	Pass
		HCH	QPSK	RB1#0	12.23	Pass
			16-QAM	RB1#0	12.24	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note2}	Verdict
Band 17	5 MHz	LCH	QPSK	RB1#0	13.1	Pass
			16-QAM	RB1#0	13.2	Pass
		MCH	QPSK	RB1#0	13.3	Pass
			16-QAM	RB1#0	13.4	Pass
		HCH	QPSK	RB1#0	13.5	Pass
			16-QAM	RB1#0	13.6	Pass
	10 MHz	LCH	QPSK	RB1#0	13.7	Pass
			16-QAM	RB1#0	13.8	Pass
		MCH	QPSK	RB1#0	13.9	Pass
			16-QAM	RB1#0	13.10	Pass
		HCH	QPSK	RB1#0	13.11	Pass
			16-QAM	RB1#0	13.12	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note2}	Verdict
Band 41	5 MHz	LCH	QPSK	RB1#0	14.1	Pass
			16-QAM	RB1#0	14.2	Pass
		MCH	QPSK	RB1#0	14.3	Pass
			16-QAM	RB1#0	14.4	Pass
		HCH	QPSK	RB1#0	14.5	Pass
			16-QAM	RB1#0	14.6	Pass
	10 MHz	LCH	QPSK	RB1#0	14.7	Pass
			16-QAM	RB1#0	14.8	Pass
		MCH	QPSK	RB1#0	14.9	Pass
			16-QAM	RB1#0	14.10	Pass
		HCH	QPSK	RB1#0	14.11	Pass
			16-QAM	RB1#0	14.12	Pass
	15 MHz	LCH	QPSK	RB1#0	14.13	Pass
			16-QAM	RB1#0	14.14	Pass
		MCH	QPSK	RB1#0	14.15	Pass
			16-QAM	RB1#0	14.16	Pass
		HCH	QPSK	RB1#0	14.17	Pass
			16-QAM	RB1#0	14.18	Pass
	20 MHz	LCH	QPSK	RB1#0	14.19	Pass
			16-QAM	RB1#0	14.20	Pass
		MCH	QPSK	RB1#0	14.21	Pass
			16-QAM	RB1#0	14.22	Pass
		HCH	QPSK	RB1#0	14.23	Pass
			16-QAM	RB1#0	14.24	Pass

A.6 Band Edge

Note 1: Test plots please refer to the document “Annex No.: BL-EC17C0360-501 Data Part 4.pdf”.

GSM, CDMA and WCDMA Mode Test Data

Test Band	Test Channel	Refer to Plot ^{Note1}	Verdict
GSM 850	LCH	1.1	Pass
	HCH	1.2	Pass
GSM 1900	LCH	2.1	Pass
	HCH	2.2	Pass
EGPRS 850	LCH	3.1	Pass
	HCH	3.2	Pass
EGPRS 1900	LCH	4.1	Pass
	HCH	4.2	Pass
CDMA BC0	LCH	5.1	Pass
	HCH	5.2	Pass
EVDO BC0	LCH	6.1	Pass
	HCH	6.2	Pass
WCDMA Band 2	LCH	7.1	Pass
	HCH	7.2	Pass
WCDMA Band 5	LCH	8.1	Pass
	HCH	8.2	Pass

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 2	1.4 MHz	LCH	QPSK	RB1#0	9.1	Pass
				RB6#0	9.2	Pass
			16-QAM	RB1#0	9.3	Pass
				RB6#0	9.4	Pass
		HCH	QPSK	RB1#5	9.5	Pass
				RB6#0	9.6	Pass
			16-QAM	RB1#5	9.7	Pass
				RB6#0	9.8	Pass
	3 MHz	LCH	QPSK	RB1#0	9.9	Pass
				RB15#0	9.10	Pass
			16-QAM	RB1#0	9.11	Pass
				RB15#0	9.12	Pass
		HCH	QPSK	RB1#14	9.13	Pass
				RB15#0	9.14	Pass
			16-QAM	RB1#14	9.15	Pass
				RB15#0	9.16	Pass
	5 MHz	LCH	QPSK	RB1#0	9.17	Pass
				RB25#0	9.18	Pass
			16-QAM	RB1#0	9.19	Pass
				RB25#0	9.20	Pass
		HCH	QPSK	RB1#24	9.21	Pass
				RB25#0	9.22	Pass
			16-QAM	RB1#24	9.23	Pass
				RB25#0	9.24	Pass
	10 MHz	LCH	QPSK	RB1#0	9.25	Pass
				RB50#0	9.26	Pass
			16-QAM	RB1#0	9.27	Pass
				RB50#0	9.28	Pass
		HCH	QPSK	RB1#49	9.29	Pass
				RB50#0	9.30	Pass
			16-QAM	RB1#49	9.31	Pass
				RB50#0	9.32	Pass
	15 MHz	LCH	QPSK	RB1#0	9.33	Pass
				RB75#0	9.34	Pass
			16-QAM	RB1#0	9.35	Pass
				RB75#0	9.36	Pass
		HCH	QPSK	RB1#74	9.37	Pass
				RB75#0	9.38	Pass
			16-QAM	RB1#74	9.39	Pass
				RB75#0	9.40	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
	20 MHz	LCH	QPSK	RB1#0	9.41	Pass
				RB100#0	9.42	Pass
			16-QAM	RB1#0	9.43	Pass
				RB100#0	9.44	Pass
		HCH	QPSK	RB1#99	9.45	Pass
				RB100#0	9.46	Pass
			16-QAM	RB1#99	9.47	Pass
				RB100#0	9.48	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 4	1.4 MHz	LCH	QPSK	RB1#0	10.1	Pass
				RB6#0	10.2	Pass
			16-QAM	RB1#0	10.3	Pass
				RB6#0	10.4	Pass
		HCH	QPSK	RB1#5	10.5	Pass
				RB6#0	10.6	Pass
			16-QAM	RB1#5	10.7	Pass
				RB6#0	10.8	Pass
	3 MHz	LCH	QPSK	RB1#0	10.9	Pass
				RB15#0	10.10	Pass
			16-QAM	RB1#0	10.11	Pass
				RB15#0	10.12	Pass
		HCH	QPSK	RB1#14	10.13	Pass
				RB15#0	10.14	Pass
			16-QAM	RB1#14	10.15	Pass
				RB15#0	10.16	Pass
	5 MHz	LCH	QPSK	RB1#0	10.17	Pass
				RB25#0	10.18	Pass
			16-QAM	RB1#0	10.19	Pass
				RB25#0	10.20	Pass
		HCH	QPSK	RB1#24	10.21	Pass
				RB25#0	10.22	Pass
			16-QAM	RB1#24	10.23	Pass
				RB25#0	10.24	Pass
	10 MHz	LCH	QPSK	RB1#0	10.25	Pass
				RB50#0	10.26	Pass
			16-QAM	RB1#0	10.27	Pass
				RB50#0	10.28	Pass
		HCH	QPSK	RB1#49	10.29	Pass
				RB50#0	10.30	Pass
			16-QAM	RB1#49	10.31	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
				RB50#0	10.32	Pass
	15 MHz	LCH	QPSK	RB1#0	10.33	Pass
				RB75#0	10.34	Pass
			16-QAM	RB1#0	10.35	Pass
				RB75#0	10.36	Pass
		HCH	QPSK	RB1#74	10.37	Pass
				RB75#0	10.38	Pass
			16-QAM	RB1#74	10.39	Pass
				RB75#0	10.40	Pass
	20 MHz	LCH	QPSK	RB1#0	10.41	Pass
				RB100#0	10.42	Pass
			16-QAM	RB1#0	10.43	Pass
				RB100#0	10.44	Pass
		HCH	QPSK	RB1#99	10.45	Pass
				RB100#0	10.46	Pass
			16-QAM	RB1#99	10.47	Pass
				RB100#0	10.48	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 5	1.4 MHz	LCH	QPSK	RB1#0	11.1	Pass
				RB6#0	11.2	Pass
			16-QAM	RB1#0	11.3	Pass
				RB6#0	11.4	Pass
		HCH	QPSK	RB1#5	11.5	Pass
				RB6#0	11.6	Pass
			16-QAM	RB1#5	11.7	Pass
				RB6#0	11.8	Pass
	3 MHz	LCH	QPSK	RB1#0	11.9	Pass
				RB15#0	11.10	Pass
			16-QAM	RB1#0	11.11	Pass
				RB15#0	11.12	Pass
		HCH	QPSK	RB1#14	11.13	Pass
				RB15#0	11.14	Pass
			16-QAM	RB1#14	11.15	Pass
				RB15#0	11.16	Pass
	5 MHz	LCH	QPSK	RB1#0	11.17	Pass
				RB25#0	11.18	Pass
			16-QAM	RB1#0	11.19	Pass
				RB25#0	11.20	Pass
		HCH	QPSK	RB1#24	11.21	Pass
				RB25#0	11.22	Pass
			16-QAM	RB1#24	11.23	Pass
				RB25#0	11.24	Pass
	10 MHz	LCH	QPSK	RB1#0	11.25	Pass
				RB50#0	11.26	Pass
			16-QAM	RB1#0	11.27	Pass
				RB50#0	11.28	Pass
		HCH	QPSK	RB1#49	11.29	Pass
				RB50#0	11.30	Pass
			16-QAM	RB1#49	11.31	Pass
				RB50#0	11.32	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 7	5 MHz	LCH	QPSK	RB1#0	12.1	Pass
				RB25#0	12.2	Pass
			16-QAM	RB1#0	12.3	Pass
				RB25#0	12.4	Pass
		HCH	QPSK	RB1#24	12.5	Pass
				RB25#0	12.6	Pass
			16-QAM	RB1#24	12.7	Pass
				RB25#0	12.8	Pass
	10 MHz	LCH	QPSK	RB1#0	12.9	Pass
				RB50#0	12.10	Pass
			16-QAM	RB1#0	12.11	Pass
				RB50#0	12.12	Pass
		HCH	QPSK	RB1#49	12.13	Pass
				RB50#0	12.14	Pass
			16-QAM	RB1#49	12.15	Pass
				RB50#0	12.16	Pass
	15 MHz	LCH	QPSK	RB1#0	12.17	Pass
				RB75#0	12.18	Pass
			16-QAM	RB1#0	12.19	Pass
				RB75#0	12.20	Pass
		HCH	QPSK	RB1#74	12.21	Pass
				RB75#0	12.22	Pass
			16-QAM	RB1#74	12.23	Pass
				RB75#0	12.24	Pass
	20 MHz	LCH	QPSK	RB1#0	12.25	Pass
				RB100#0	12.26	Pass
			16-QAM	RB1#0	12.27	Pass
				RB100#0	12.28	Pass
		HCH	QPSK	RB1#99	12.29	Pass
				RB100#0	12.30	Pass
			16-QAM	RB1#99	12.31	Pass
				RB100#0	12.32	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 17	5 MHz	LCH	QPSK	RB1#0	13.1	Pass
				RB25#0	13.2	Pass
			16-QAM	RB1#0	13.3	Pass
				RB25#0	13.4	Pass
		HCH	QPSK	RB1#24	13.5	Pass
				RB25#0	13.6	Pass
			16-QAM	RB1#24	13.7	Pass
				RB25#0	13.8	Pass
	10 MHz	LCH	QPSK	RB1#0	13.9	Pass
				RB50#0	13.10	Pass
			16-QAM	RB1#0	13.11	Pass
				RB50#0	13.12	Pass
		HCH	QPSK	RB1#49	13.13	Pass
				RB50#0	13.14	Pass
			16-QAM	RB1#49	13.15	Pass
				RB50#0	13.16	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 41	5 MHz	LCH	QPSK	RB1#0	14.1	Pass
				RB25#0	14.2	Pass
			16-QAM	RB1#0	14.3	Pass
				RB25#0	14.4	Pass
		HCH	QPSK	RB1#24	14.5	Pass
				RB25#0	14.6	Pass
			16-QAM	RB1#24	14.7	Pass
				RB25#0	14.8	Pass
	10 MHz	LCH	QPSK	RB1#0	14.9	Pass
				RB50#0	14.10	Pass
			16-QAM	RB1#0	14.11	Pass
				RB50#0	14.12	Pass
		HCH	QPSK	RB1#49	14.13	Pass
				RB50#0	14.14	Pass
			16-QAM	RB1#49	14.15	Pass
				RB50#0	14.16	Pass
	15 MHz	LCH	QPSK	RB1#0	14.17	Pass
				RB75#0	14.18	Pass
			16-QAM	RB1#0	14.19	Pass
				RB75#0	14.20	Pass
		HCH	QPSK	RB1#74	14.21	Pass
				RB75#0	14.22	Pass
			16-QAM	RB1#74	14.23	Pass
				RB75#0	14.24	Pass
	20 MHz	LCH	QPSK	RB1#0	14.25	Pass
				RB100#0	14.26	Pass
			16-QAM	RB1#0	14.27	Pass
				RB100#0	14.28	Pass
		HCH	QPSK	RB1#99	14.29	Pass
				RB100#0	14.30	Pass
			16-QAM	RB1#99	14.31	Pass
				RB100#0	14.32	Pass

A.7 Field Strength of Spurious Radiation

Note 1: GSM and EGPRS modes have been verified, only the worst data with different transmit bandwidth for LTE are shown here.

Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are MS carrier frequency.

Note 3: When measurement frequency is above 18GHz, there is only noise floor of test system existing.

So that there is no test data above 18GHz in the report.

Note 4: Test plots please refer to the document "Annex No.: BL-EC17C0360-501 Data Part 5.pdf".

GSM, CDMA and WCDMA Mode Test Data

Test Band	Test Channel	Refer to Plot ^{Note3}	Verdict
GSM 850	LCH	1.1	Pass
	MCH	1.2	Pass
	HCH	1.3	Pass
GSM 1900	LCH	2.1	Pass
	MCH	2.2	Pass
	HCH	2.3	Pass
EGPRS 850	LCH	3.1	Pass
	MCH	3.2	Pass
	HCH	3.3	Pass
EGPRS 1900	LCH	4.1	Pass
	MCH	4.2	Pass
	HCH	4.3	Pass
CDMA BC0	LCH	5.3	Pass
	MCH	5.1	Pass
	HCH	5.2	Pass
EVDO BC0	LCH	6.3	Pass
	MCH	6.1	Pass
	HCH	6.2	Pass
WCDMA Band 2	LCH	7.1	Pass
	MCH	7.2	Pass
	HCH	7.3	Pass
WCDMA Band 5	LCH	8.1	Pass
	MCH	8.2	Pass
	HCH	8.3	Pass

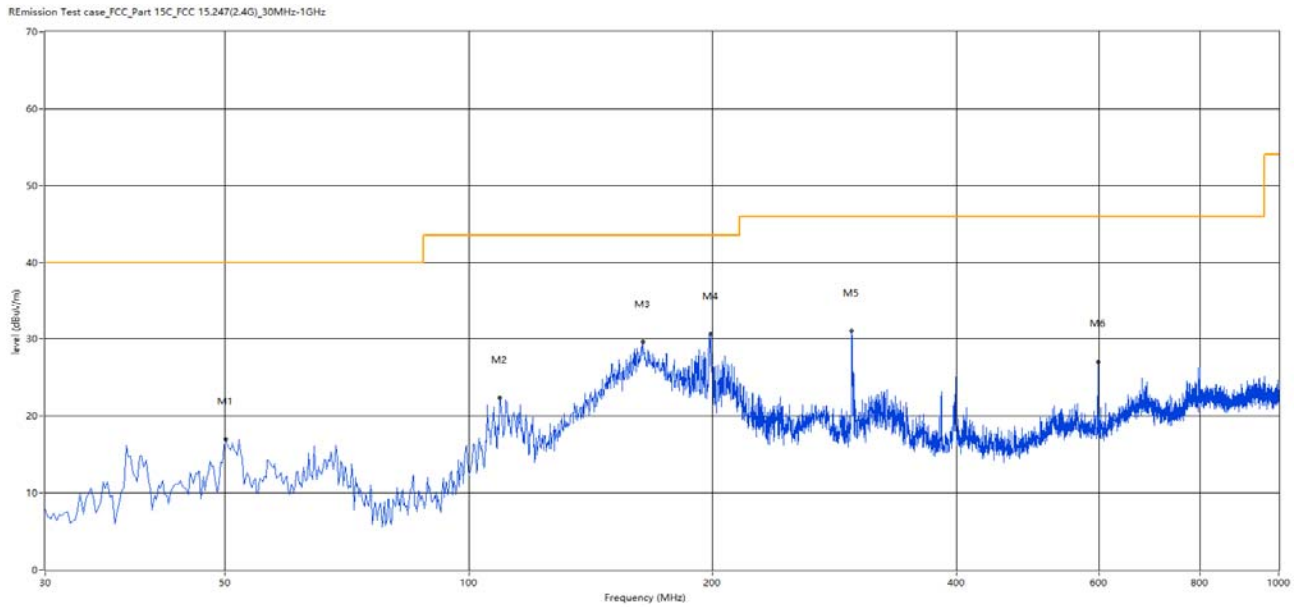
LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 2	1.4 MHz	MCH	QPSK	RB1#0	9.1	Pass
	3 MHz	MCH	QPSK	RB1#0	9.2	Pass
	5 MHz	MCH	QPSK	RB1#0	9.3	Pass
	10 MHz	MCH	QPSK	RB1#0	9.4	Pass
	15 MHz	MCH	QPSK	RB1#0	9.5	Pass
	20 MHz	MCH	QPSK	RB1#0	9.6	Pass
Band 4	1.4 MHz	MCH	QPSK	RB1#0	10.1	Pass
	3 MHz	MCH	QPSK	RB1#0	10.2	Pass
	5 MHz	MCH	QPSK	RB1#0	10.3	Pass
	10 MHz	MCH	QPSK	RB1#0	10.4	Pass
	15 MHz	MCH	QPSK	RB1#0	10.5	Pass
	20 MHz	MCH	QPSK	RB1#0	10.6	Pass
Band 5	1.4 MHz	MCH	QPSK	RB1#0	11.1	Pass
	3 MHz	MCH	QPSK	RB1#0	11.2	Pass
	5 MHz	MCH	QPSK	RB1#0	11.3	Pass
	10 MHz	MCH	QPSK	RB1#0	11.4	Pass
Band 7	5 MHz	MCH	QPSK	RB1#0	12.1	Pass
	10 MHz	MCH	QPSK	RB1#0	12.2	Pass
	15 MHz	MCH	QPSK	RB1#0	12.3	Pass
	20 MHz	MCH	QPSK	RB1#0	12.4	Pass
Band 17	5 MHz	MCH	QPSK	RB1#0	13.1	Pass
	10 MHz	MCH	QPSK	RB1#0	13.2	Pass
Band 41	5 MHz	MCH	QPSK	RB1#0	14.1	Pass
	10 MHz	MCH	QPSK	RB1#0	14.2	Pass
	15 MHz	MCH	QPSK	RB1#0	14.3	Pass
	20 MHz	MCH	QPSK	RB1#0	14.4	Pass

A.8 Receiver Spurious Emissions

Note: Only the worst test results were recorded in this report.

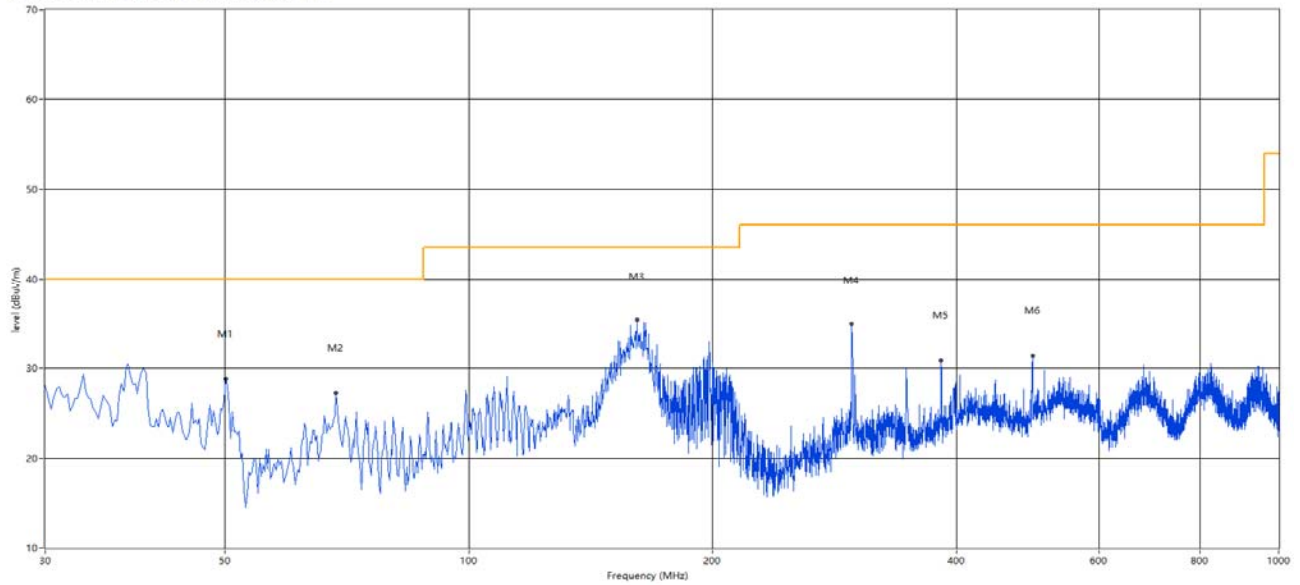
30MHz to 1GHz, ANT H



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	ANT	Verdict
50.122	16.92	--	--	-26.61	--	40.0	--	23.08	2.00	100	Horizontal	Pass
109.278	22.30	--	--	-28.71	--	43.5	--	21.20	3.00	100	Horizontal	Pass
164.069	29.56	--	--	-31.37	--	43.5	--	13.94	3.00	100	Horizontal	Pass
199.223	30.64	--	--	-28.70	--	43.5	--	12.86	4.00	100	Horizontal	Pass
297.168	31.05	--	--	-26.70	--	46.0	--	14.95	1.00	100	Horizontal	Pass
598.763	27.01	--	--	-19.00	--	46.0	--	18.99	3.00	100	Horizontal	Pass

30MHz to 1GHz, ANT V

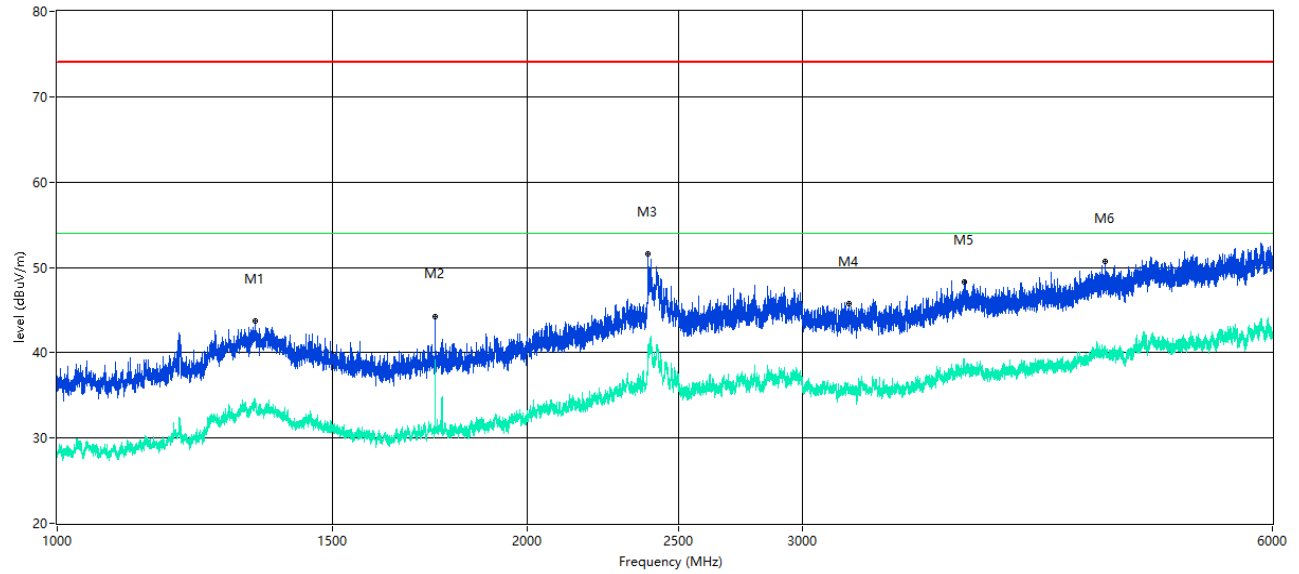
REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	ANT	Verdict
50.122	28.75	--	--	-26.61	--	40.0	--	11.25	19.00	100	Vertical	Pass
68.548	27.23	--	--	-30.34	--	40.0	--	12.77	230.00	100	Vertical	Pass
161.402	35.34	--	--	-31.48	--	43.5	--	8.16	2.00	100	Vertical	Pass
297.168	34.96	--	--	-26.70	--	46.0	--	11.04	246.00	100	Vertical	Pass
383.234	30.85	--	--	-24.58	--	46.0	--	15.15	4.00	100	Vertical	Pass
496.696	31.38	--	--	-21.97	--	46.0	--	14.62	3.00	100	Vertical	Pass

1GHz to 6GHz, ANT H

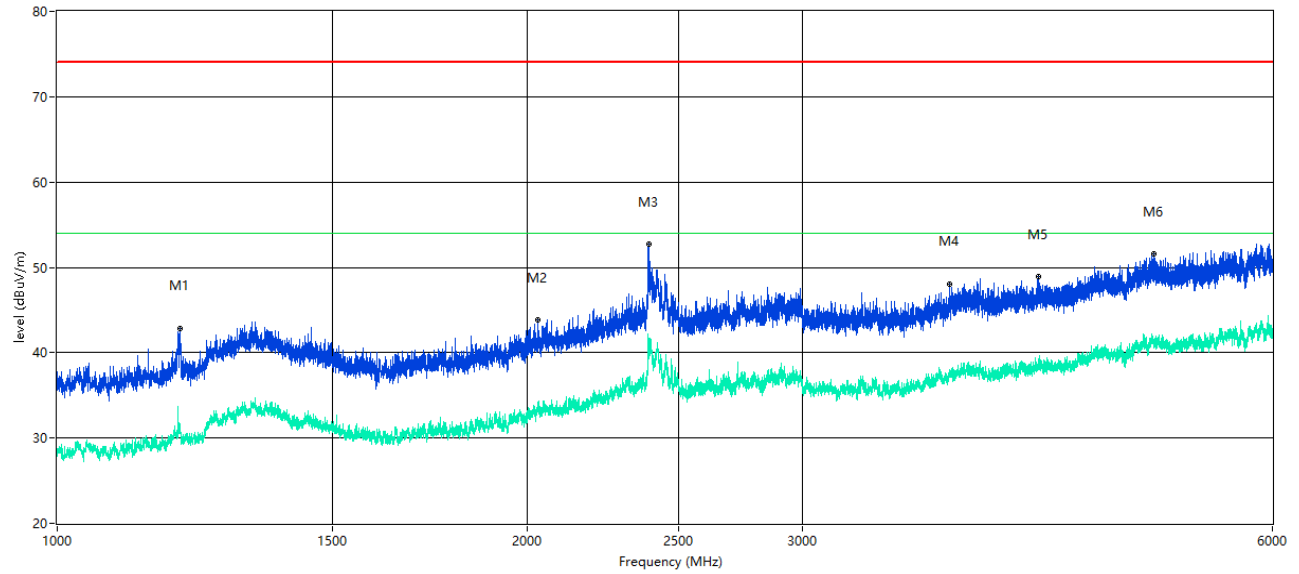
REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	ANT	Verdict
1339.708	43.67	--	33.6	-11.93	74.0	--	54.0	20.40	1.00	100	Horizontal	Pass
1745.657	44.26	--	39.0	-11.32	74.0	--	54.0	15.00	117.00	100	Horizontal	Pass
2389.576	51.52	--	40.2	-1.63	74.0	--	54.0	13.80	252.00	100	Horizontal	Pass
3215.973	45.76	--	35.8	-5.19	74.0	--	54.0	18.20	208.00	100	Horizontal	Pass
3808.399	48.23	--	38.4	-2.58	74.0	--	54.0	15.60	1.00	100	Horizontal	Pass
4686.914	50.63	--	40.0	-0.16	74.0	--	54.0	14.00	120.00	100	Horizontal	Pass

1GHz to 6GHz, ANT V

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	ANT	Verdict
1197.975	42.88	--	31.1	-12.17	74.0	--	54.0	22.90	1.00	100	Vertical	Pass
2032.371	43.83	--	33.3	-7.78	74.0	--	54.0	20.70	316.00	100	Vertical	Pass
2391.326	52.70	--	41.2	-0.56	74.0	--	54.0	12.80	5.00	100	Vertical	Pass
3728.534	48.03	--	37.9	-3.36	74.0	--	54.0	16.10	334.00	100	Vertical	Pass
4252.718	48.92	--	38.0	-1.78	74.0	--	54.0	16.00	160.00	100	Vertical	Pass
5037.495	51.55	--	41.2	1.05	74.0	--	54.0	12.80	232.00	100	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer to the document "BL-EC17C0360-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document "BL-EC17C0360-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer to the document "BL-EC17C0360-AI.PDF".

--END OF REPORT--