

FCC/ISED

RF

TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Rugged Smart Phone

ISSUED TO
Trimble Europe BV

Meerheide, 45 Eersel 5521 NETHERLANDS



Tested by: Wu Huihui

Wu Huihui
(Engineer)

Date Dec. 26, 2018

Approved by: Wei Yanquan

Wei Yanquan
(Chief Engineer)

Date Dec. 26, 2018

Report No.: BL-EC18B0415-501
EUT Name: Rugged Smart Phone
Model Name: TDC600, MobileMapper60
Brand Name: Trimble/ Spectra Geospatial
Test Standard: 47 CFR Part 2 (10-1-17 Edition)
RSS-Gen (Issue 5, April 2018)
(Others refer to chapter 3.1)
FCC ID: NZI-11705900
ISED Number: 9288A-11705900
Test Conclusion: Pass
Test Date: Nov. 30, 2018 ~ Dec. 20, 2018
Date of Issue: Dec. 26, 2018

NOTE: This test report of test results only related to testing samples, which can be duplicated completely for the legal use with the approval of the applicant; it shall not be reproduced except in full, without the written approval of Shenzhen BALUN Technology Co., Ltd. Any objections should be raised within thirty days from the date of issue. To validate the report, please contact us.

Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Dec. 26, 2018</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	ADMINISTRATIVE DATA (GENERAL INFORMATION)	4
1.1	Identification of the Testing Laboratory.....	4
1.2	Identification of the Responsible Testing Location	4
1.3	Laboratory Condition	4
1.4	Announce.....	5
2	PRODUCT INFORMATION	6
2.1	Applicant Information.....	6
2.2	Manufacturer Information	6
2.3	Factory Information	6
2.4	General Description for Equipment under Test (EUT)	6
2.5	Ancillary Equipment.....	7
2.6	Technical Information	8
3	SUMMARY OF TEST RESULTS	11
3.1	Test Standards.....	11
3.2	Test Verdict.....	12
4	GENERAL TEST CONFIGURATIONS	14
4.1	Test Environments	14
4.2	Test Equipment List.....	14
4.3	Test Configurations	16
4.4	Test Setup.....	23
5	TEST ITEMS	26
5.1	Transmitter Radiated Power (EIRP/ERP).....	26
5.2	Peak to Average Ratio	29
5.3	Occupied Bandwidth	31
5.4	Frequency Stability.....	33
5.5	Spurious Emission at Antenna Terminals	36

5.6	Band Edge	39
5.7	Field Strength of Spurious Radiation	42
5.8	Receiver Spurious Emissions	46
5.9	AC Power-line Conducted Emissions	48
ANNEX A	TEST RESULTS	50
A.1	Transmitter Radiated Power (EIRP/ERP)	50
A.2	Peak to Average Ratio	120
A.3	Occupied Bandwidth	124
A.4	Frequency Stability	133
A.5	Spurious Emission at Antenna Terminals	146
A.6	Band Edge	155
A.7	Field Strength of Spurious Radiation	166
A.8	Receiver Spurious Emissions	168
A.9	AC Power-line Conducted Emissions	172
ANNEX B	TEST SETUP PHOTOS	174
ANNEX C	EUT EXTERNAL PHOTOS	174
ANNEX D	EUT INTERNAL PHOTOS	174

1 ADMINISTRATIVE DATA (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

1.2 Identification of the Responsible Testing Location

Test Location	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 Certificate	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 Laboratory Condition

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

1.4 Announce

- (1) The test report reference to the report template version v1.4.
- (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	Trimble Europe BV
Address	Meerheide, 45 Eersel 5521 NETHERLANDS

2.2 Manufacturer Information

Manufacturer	Trimble Europe BV
Address	Meerheide, 45 Eersel 5521 NETHERLANDS

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Rugged Smart Phone
Model Name Under Test	TDC600
Series Model Name	TDC600, MobileMapper60
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only different on model name, brand name and colors.
Hardware Version	C601_V1.00_PCB
Software Version	TDC600.53.80.10
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

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	Adapter	
	Brand Name	N/A
	Model No.	ASUC71w-050912300
	Serial No.	N/A
	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	USB Cable	
	Length (Approx.)	1.0 m

2.6 Technical Information

All Network and Wireless connectivity for EUT	2G Network GSM/GPRS/EGPRS 850/900/1800/1900 MHz; 3G Network WCDMA/HSDPA/HSUPA Band 1/2/4/5; TD-SCDMA Band 34/39 4G Network FDD LTE Band 1/2/3/4/5/7/8/12/13/17/20/25/28; TDD LTE Band 38/39/40/41; Bluetooth 4.0 (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11n(HT20/40) and 802.11ac NFC, GPS, GLONASS, BDS, Galileo
About the Product	The equipment is Rugged Smart Phone, intended for used with information technology equipment.
Note 1: The EUT is a Rugged Smart Phone, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA and LTE. And both SIM card slots share the same transceiver, so only SIM1 is tested in this report.	

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

Operating Bands	GSM/GPRS/EGPRS 850/ 1900 MHz WCDMA/HSDPA/HSUPA Band 2/ 5 FDD LTE Band 2/ 4/ 5/ 7/ 12/ 13/ 17/ 25 LTE TDD Band 41	
Modulation Type	GSM/GPRS	GMSK
	EGPRS	8PSK
	WCDMA	QPSK
	HSDPA	QPSK
	/HSUPA	16QAM
	LTE	QPSK 16QAM
TX Frequency Range	GSM/GPRS/EGPRS 850: 824 MHz ~ 849 MHz GSM/GPRS/EGPRS 1900: 1850 MHz ~ 1910 MHz WCDMA/HSDPA/HSUPA Band 2: 1850 MHz ~ 1910 MHz WCDMA/HSDPA/HSUPA Band 5: 824 MHz ~ 849 MHz FDD LTE Band 2: 1850 MHz ~ 1910 MHz FDD LTE Band 4: 1710 MHz ~ 1755 MHz FDD LTE Band 5: 824 MHz ~ 849 MHz FDD LTE Band 7: 2500 MHz ~ 2570 MHz FDD LTE Band 12: 699 MHz ~ 716 MHz FDD LTE Band 13: 777 MHz ~ 787 MHz FDD LTE Band 17: 704 MHz ~ 716 MHz FDD LTE Band 25: 1850 MHz ~ 1915 MHz TDD LTE Band 41: 2555 MHz ~ 2655 MHz	
Rx Frequency Range	GSM/GPRS/EGPRS 850: 869 MHz ~ 894 MHz	

	GSM/GPRS/EGPRS 1900: 1930 MHz ~ 1990 MHz WCDMA/HSDPA/HSUPA Band 2: 1930 MHz ~ 1990 MHz WCDMA/HSDPA/HSUPA Band 5: 869 MHz ~ 894 MHz FDD LTE Band 2: 1930 MHz ~ 1990 MHz FDD LTE Band 4: 2110 MHz ~ 2155 MHz FDD LTE Band 5: 869 MHz ~ 894 MHz FDD LTE Band 7: 2620 MHz ~ 2690 MHz FDD LTE Band 12: 729 MHz ~ 746 MHz FDD LTE Band 13: 746 MHz ~ 756 MHz FDD LTE Band 17: 734 MHz ~ 746 MHz FDD LTE Band 25: 1930 MHz ~ 1995 MHz TDD LTE Band 41: 2555 MHz ~ 2655 MHz
Power Class	GSM/GPRS 850: 4 GSM/GPRS 1900: 1 EGPRS 850/1900: E2 WCDMA/HSDPA/HSUPA Band 2: 3 WCDMA/HSDPA/HSUPA Band 5: 3 FDD LTE Band 2: 3 FDD LTE Band 4: 3 FDD LTE Band 5: 3 FDD LTE Band 7: 3 FDD LTE Band 12: 3 FDD LTE Band 13: 3 FDD LTE Band 17: 3 FDD LTE Band 25: 3 TDD LTE Band 41: 3
Multislot Class	GPRS/EGPRS: 12
Antenna Type	PIFA Antenna
Antenna Gain	GSM/GPRS/EGPRS 850: -1.64 dBi GSM/GPRS/EGPRS 1900: 0.21 dBi WCDMA/HSDPA/HSUPA Band 2: 0.38 dBi WCDMA/HSDPA/HSUPA Band 5: -1.55 dBi FDD LTE Band 2: -0.28 dBi FDD LTE Band 4: -0.34 dBi FDD LTE Band 5: -0.04 dBi FDD LTE Band 7: -0.67 dBi FDD LTE Band 12: -1.40 dBi FDD LTE Band 13: -1.40 dBi FDD LTE Band 17: -1.39 dBi FDD LTE Band 25: -0.30 dBi TDD LTE Band 41: 0.51 dBi
The Max RF Output Power (EIRP/ERP)	29.16 dBm

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 Issue5 (April 2018)	General Requirements and Information for the Certification of Radio Apparatus
6	RSS-130 Issue1 (October 2013)	Mobile Broadband Services (MBS) Equipment Operating in the Frequency Bands 698-756 MHz and 777-787 MHz
7	RSS-132 Issue3 (January 2013)	Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz
8	RSS-133 Issue6 (January 2018)	2 GHz Personal Communications Services
9	RSS-139 Issue3 (July 2015)	Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2180 MHz
10	RSS-199 Issue3 (December 2016)	Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz
11	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
12	KDB 971168 D01 v03r01	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-130 4.4 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	RSS-Gen 6.12 RSS-130 4.4 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-130 4.4 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 6.7	ANNEX A.3	Pass
5	Frequency Stability	2.1055 22.355 24.235 27.54	RSS-Gen 6.11 RSS-130 4.3 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	RSS-Gen 6.13 RSS-130 4.6 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	RSS-130 4.6 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	RSS-Gen 6.13 RSS-130 4.6 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
			RSS-199 4.5		
9	Receiver Spurious Emissions	N/A	RSS-Gen 7 RSS-132 5.6 RSS-133 6.6	ANNEX A.8	Pass
10	AC Power-line Conducted Emissions	N/A	RSS-Gen 8.8	ANNEX A.9	Pass

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the 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	NT (Normal Temperature)	+25 °C
	LT (Low Temperature)	-30 °C
	HT (High Temperature)	+55 °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	V2.1.1.38 4	N/A	N/A
Universal Radio Communication Tester	R&S	CMU 200	119280	V5.13	2018.03.16	2019.03.15
Wideband Radio Communication Tester	R&S	CMW 500	127794	V3.5.137	2018.06.15	2019.06.14
Wideband Radio Communication Tester	R&S	CMW 500	120598	V3.5.137	2018.03.05	2019.03.04
Spectrum Analyzer	R&S	FSV-30	103118	2.30.SP1	2018.06.15	2019.06.14
Spectrum Analyzer	Agilent	E4440A	MY45304434	A.11.21	2018.11.01	2019.10.31
Spectrum Analyzer	Agilent	E4440A	MY46181663	A.11.21	2018.11.01	2019.10.31
Temperature Chamber	AHK	SP20	1412	N/A	2018.06.15	2019.06.14
DC Power Supply	ITECH	IT6863A	6000140106 87210020	N/A	2018.06.14	2019.06.13
Power Sensor	Agilent	E9304A H18	MY41497164	N/A	2018.11.01	2019.10.31
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

Description	Manufacturer	Model	Serial No.	Software /Firmware Version	Cal. Date	Cal. Due
Radiated Test System						
Test Software	BALUN	BL410_E	N/A	V16.921	N/A	N/A
Test Antenna- Bi-Log (30 MHz-3 GHz)	Schwarzbeck	VULB 9163	9163-624	N/A	2017.07.22	2019.07.21
Test Antenna- Horn(1-18 GHz)	Schwarzbeck	BBHA 9120D	9120D-1600	N/A	2016.07.12	2019.07.11
Test Antenna- Horn(18-40 GHz)	A-INFO	LB- 180400KF	J211060273	N/A	2017.01.06	2019.01.05
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	N/A	2017.02.21	2019.02.20
Shielded Enclosure	ChangNing	CN- 130701	130703	N/A	N/A	N/A
EMI Receiver	KEYSIGHT	N9038A	MY53220118	A.14.16	2018.11.07	2019.11.06
Spectrum Analyzer	R&S	FSV-30	103118	2.30.SP1	2018.06.15	2019.06.14
Wideband Radio Communication Tester	R&S	CMW 500	121551	V3.2.73	2018.05.07	2019.05.06

4.3 Test Configurations

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
Effective (Isotropic) Radiated Power	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
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
	HSDPA Band 2	v	v	v
	HSDPA Band 5	v	v	v
	HSUPA Band 2	v	v	v
	HSUPA Band 5	v	v	v
Peak to Average Ratio	WCDMA Band 2	v	v	v
	WCDMA Band 5	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
	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
	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
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
Band Edge	GSM 850	v	--	v
	GSM 1900	v	--	v
	EGPRS 850	v	--	v
	EGPRS 1900	v	--	v
	WCDMA Band 2	v	--	v
	WCDMA Band 5	v	--	v
	GSM 850	v	v	v

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
Field Strength of Spurious Radiation	GSM 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
Note 1: The mark “v” means that this configuration is chosen for testing.				

Test Mode	UL Channel	UL Channel No.	UL Frequency (MHz)
GSM/GPRS/EGPRS 850	Low Channel	128	824.2
	Middle Channel	190	836.6
	High Channel	251	848.8
GSM/GPRS/EGPRS 1900	Low Channel	512	1850.2
	Middle Channel	661	1880.0
	High Channel	810	1909.8
WCDMA Band 2	Low Channel	9262	1852.4
	Middle Channel	9400	1880.0
	High Channel	9538	1907.6
WCDMA Band 5	Low Channel	4132	826.4
	Middle Channel	4182	836.4
	High Channel	4233	846.6

LTE Band	Bandwidth (MHz)						Modulation Type		RB#			Test Channel		
	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
Effective (Isotropic) Radiated Power														
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
12	v	v	v	v	n	n	v	v	v	v	v	v	v	v
13	n	n	v	v	n	n	v	v	v	v	v	v	v	v
17	n	n	v	v	n	n	v	v	v	v	v	v	v	v
25	v	v	v	v	v	v	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
12	--	--	--	v	n	n	v	v	v	--	v	v	v	v
13	n	n	--	v	n	n	v	v	v	--	v	v	v	v
17	n	n	--	v	n	n	v	v	v	--	v	v	v	v
25	--	--	--	--	--	v	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
12	v	v	v	v	n	n	v	v	--	--	v	v	v	v
13	n	n	v	v	n	n	v	v	--	--	v	v	v	v
17	n	n	v	v	n	n	v	v	--	--	v	v	v	v
25	v	v	v	v	v	v	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	--
12	--	--	--	v	n	n	v	v	--	--	v	--	v	--
13	n	n	--	v	n	n	v	v	--	--	v	--	v	--
17	n	n	--	v	n	n	v	v	--	--	v	--	v	--
25	--	--	--	v	--	--	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

LTE Band	Bandwidth (MHz)						Modulation Type		RB#			Test Channel		
	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
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
12	v	v	v	v	n	n	v	v	v	--	--	v	v	v
13	n	n	v	v	n	n	v	v	v	--	--	v	v	v
17	n	n	v	v	n	n	v	v	v	--	--	v	v	v
25	v	v	v	v	v	v	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
12	v	v	v	v	n	n	v	v	v	--	v	v	--	v
13	n	n	v	v	n	n	v	v	v	--	v	v	--	v
17	n	n	v	v	n	n	v	v	v	--	v	v	--	v
25	v	v	v	v	v	v	v	v	v	--	v	v	--	v
41	n	n	v	v	v	v	v	v	v	--	v	v	--	v
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	--
12	v	v	v	v	n	n	v	--	v	--	--	--	v	--
13	n	n	v	v	n	n	v	--	v	--	--	--	v	--
17	n	n	v	v	n	n	v	--	v	--	--	--	v	--
25	v	v	v	v	v	v	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.

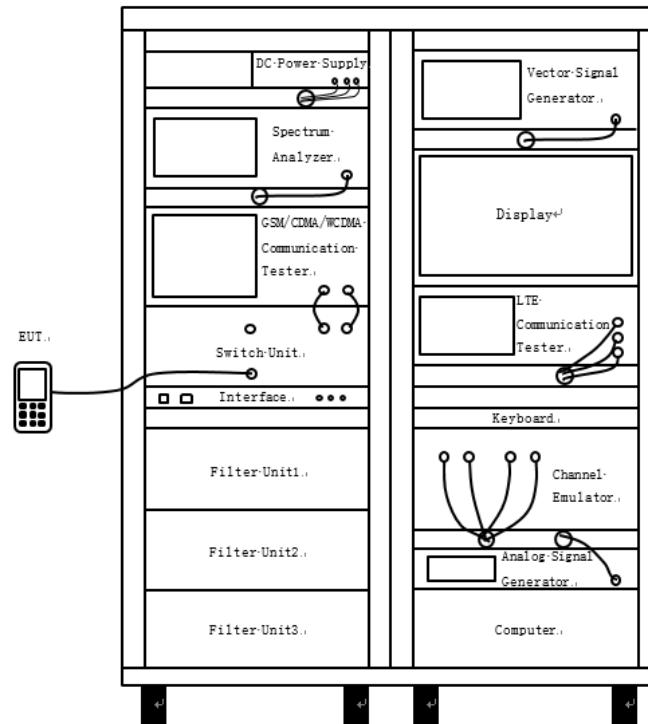
Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 2	Low Range	1.4	18607	1850.7
		3	18615	1851.5
		5	18625	1852.5
		10	18650	1855
		15	18675	1857.5
		20	18700	1860
	Middle Range	1.4/3/5/10/15/20	18900	1880
	High Range	1.4	19193	1909.3
		3	19185	1908.5
		5	19175	1907.5
		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
	Middle 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
	Middle 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
	Middle 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 12	Low Range	1.4	23017	699.7
		3	23025	700.5
		5	23035	701.5
		10	23060	704
	Middle Range	1.4/3/5/10	23095	707.5
	High Range	1.4	23173	715.3
		3	23165	714.5
		5	23155	713.5
		10	23130	711
LTE Band 13	Low Range	5	23180	777
	Middle Range	5/10	23230	782
	High Range	5	23279	786.9
LTE Band 17	Low Range	5	23755	706.5
		10	23780	709
	Middle Range	5/10	23790	710
	High Range	5	23825	713.5
		10	23800	711
LTE Band 25	Low Range	1.4	26047	1850.7
		3	26055	1851.5
		5	26065	1852.5
		10	26090	1855
		15	26115	1857.5
		20	26140	1860
	Middle Range	1.4/3/5/10/15/20	26365	1882.5
	High Range	1.4	26683	1914.3
		3	26675	1913.5
		5	26665	1912.5
		10	26640	1910
		15	26615	1907.5
		20	26590	1905
LTE Band 41	Low Range	5	40265	2557.5
		10	40290	2560
		15	40315	2562.5
		20	40340	2565
	Middle Range	5/10/15/20	40740	2605
	High Range	5	41215	2652.5
		10	41190	2650
		15	41165	2647.5
		20	41140	2645

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
Receiver Spurious Emissions	GSM 850	--	v	--
AC Power-line Conducted Emissions	GSM 850	--	v	--
Note 1: The mark “v” means that this configuration is the worst test mode for Receiver Spurious Emissions and AC Power-line Conducted Emissions measurement.				

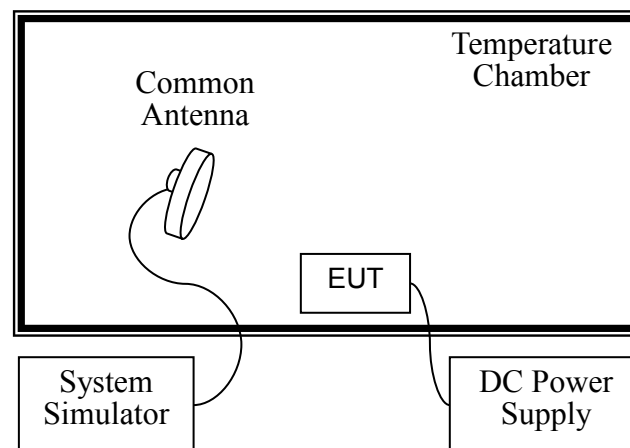
4.4 Test Setup

4.4.1 For Antenna Port Test



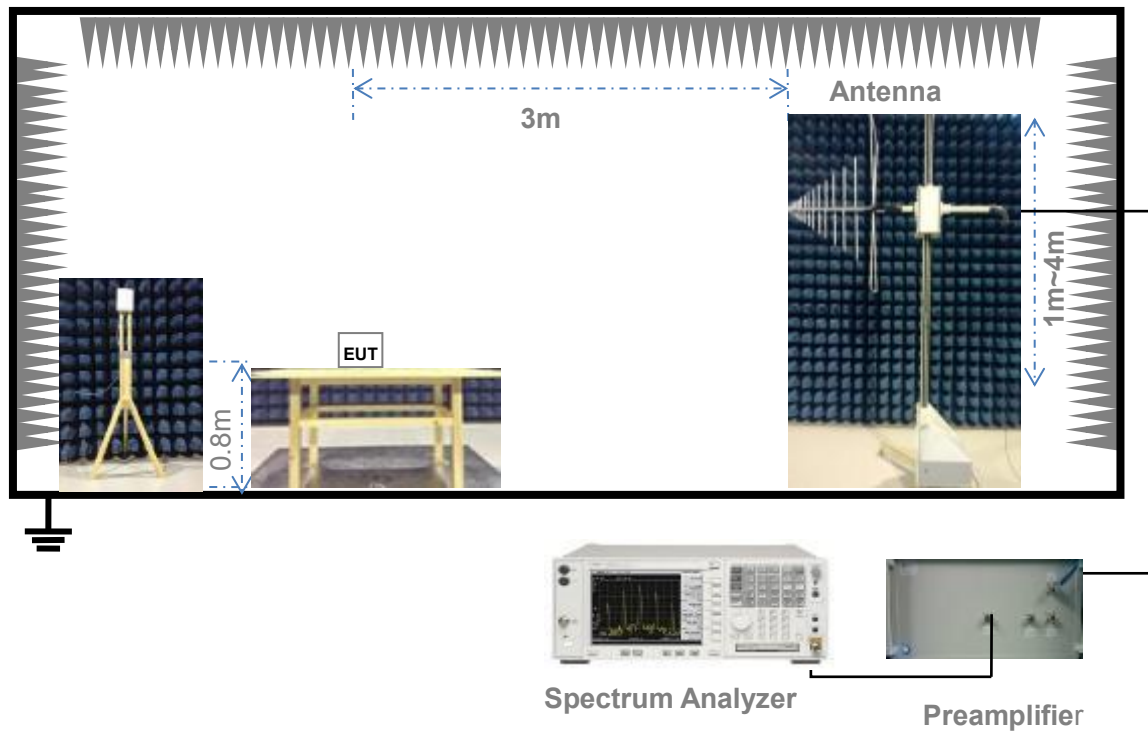
(Diagram 1)

4.4.2 For Frequency Stability Test



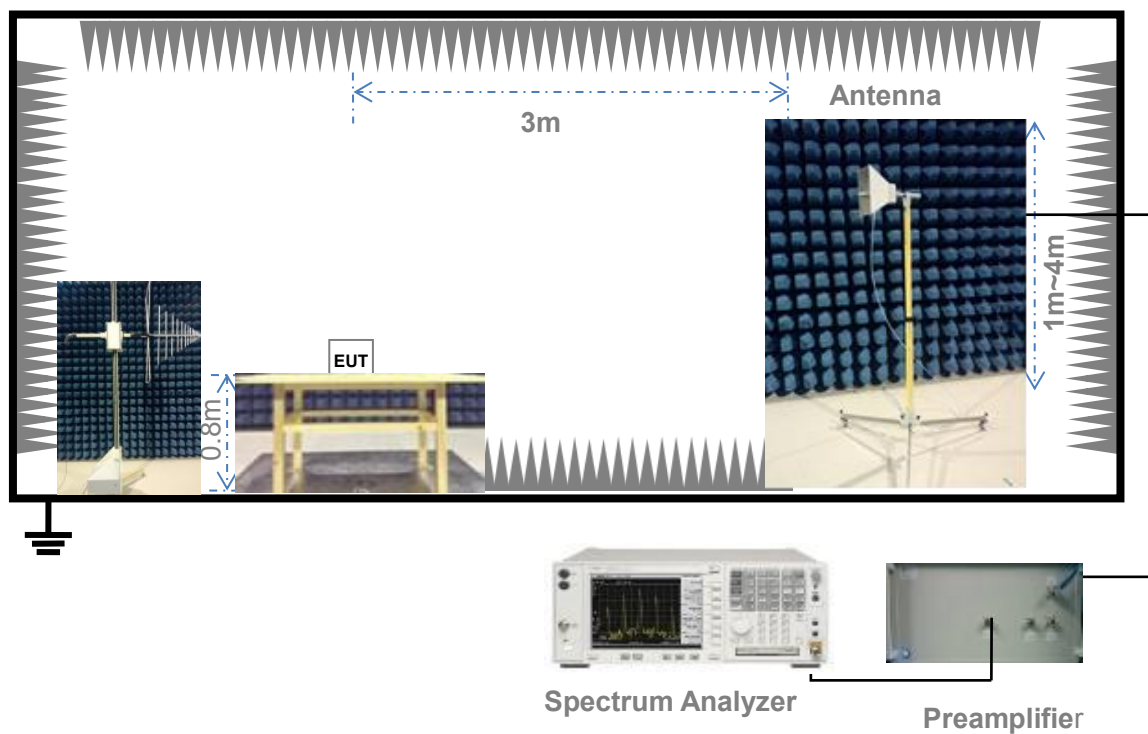
(Diagram 2)

4.4.3 For Radiated Test (30 MHz ~ 1 GHz)



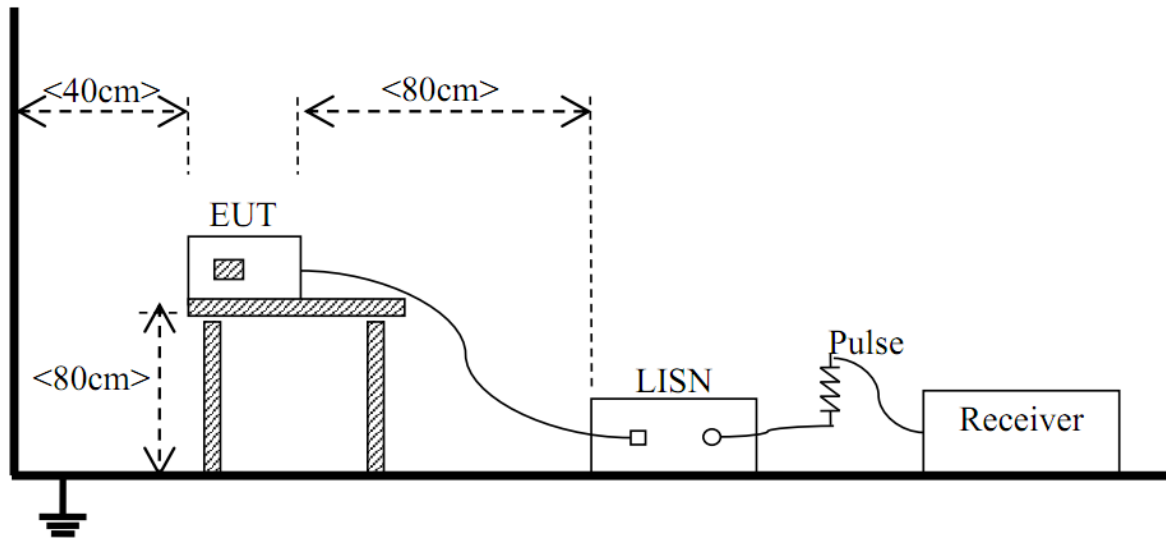
(Diagram 3)

4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

4.4.5 For AC Power-line Conducted Emissions



(Diagram 5)

5 TEST ITEMS

5.1 Transmitter Radiated Power (EIRP/ERP)

5.1.1 Limit

FCC § 2.1046 & 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) (5), 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 600MHz uplink band and the 698-746MHz band, and fixed and mobile stations in the 600MHz uplink 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-Gen § 6.12 & RSS-130 § 4.4 & RSS-132 § 5.4 & RSS-133 § 6.4 & RSS-139 § 6.5 & RSS-199 § 4.4

According to RSS-130 § 4.4, the e.i.r.p shall not exceed 50 watts for mobile equipment or for outdoor fixed subscriber equipment, nor shall it exceed 5 watts for portable equipment or for indoor fixed subscriber equipment.

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 conducted test, and the section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description is used for radiated 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.

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 EIRP test, when P_{Meas} value for GSM1900 is 30.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final EIRP value is:

$$\text{EIRP for GSM1900} = 30.2 \text{ dBm} - 3.4 \text{ dBi} - 0.6 \text{ dB} = 26.2 \text{ dBm}$$

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:

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

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-130 § 4.4 & 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.

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) (5), 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:

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

5.2.4 Test Result

Please refer to ANNEX A.2.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC § 2.1049

RSS-Gen § 6.7

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.

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-130 § 4.3 & RSS-132 § 5.3 & RSS-133 § 6.3 & RSS-139 § 6.4 & RSS-199 § 4.3

FCC § 2.1055 & RSS-Gen § 6.11

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.

RSS-130 § 4.3

The frequency offset shall be measured according to the procedure described in RSS-Gen and recorded.

RSS-132 § 5.3

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations and ± 1.5 ppm for base stations.

RSS-133 § 6.3

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations and ± 1.0 ppm for base stations.

RSS-139 § 6.4

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS-199 § 4.3

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

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 25°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 and -30°C is reached.
5. Change supply voltage, and repeat measurement until extreme voltage is reached.

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-130 § 4.6 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6 & RSS-199 § 4.5

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) & RSS-132 § 5.5 & RSS-133 § 6.5

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;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (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) & RSS-139 § 6.6

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.

RSS-130 § 4.6

The power of any unwanted emissions in any 100kHz bandwidth on any frequency outside the frequency range(s) within which the equipment is designed to operate shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10\log_{10}P$ (watts), dB. However, in the 100 kHz band immediately outside the equipment's operating frequency range, a resolution bandwidth of 30 kHz may be employed.

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 50Ohm; 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 0.001MHz RBW for frequency less than 150kHz, 0.01MHz RBW for frequency less than 30MHz, 0.1MHz RBW for frequency less than 1GHz, and 1MHz RBW for frequency above 1GHz. And sweep point number are at least 401, referring to following formula.

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

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

$$\text{Detector Mode} = \text{mean or average power}$$

5. Record the frequencies and levels of spurious emissions.

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-130 § 4.6 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6 & RSS-199 § 4.5

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) & RSS-132 § 5.5 & RSS-133 § 6.5

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;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (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) & RSS-139 § 6.6

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.

RSS-130 § 4.6

The power of any unwanted emissions in any 100kHz bandwidth on any frequency outside the frequency range(s) within which the equipment is designed to operate shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10\log_{10} P$ (watts), dB. However, in the 100 kHz band immediately outside the equipment's operating frequency range, a resolution bandwidth of 30 kHz may be employed.

In addition to the limit outlined in above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

- (a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

- (i) $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment, and
 - (ii) $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment.
- (b) The e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

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 $1\% \cdot \text{cBW}$ (RBW), and sweep point number referred to following formula.

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

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

6. Record the frequencies and levels of spurious emissions.

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-130 § 4.6 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6 & RSS-199 § 4.5

FCC § 22.917(a) & 24.238(a) & RSS-132 § 5.5 & RSS-133 § 6.5

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;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (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) & RSS-139 § 6.6

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.

RSS-130 § 4.6

The power of any unwanted emissions in any 100 kHz bandwidth on any frequency outside the frequency range(s) within which the equipment is designed to operate shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} P$ (watts), dB. However, in the 100 kHz band immediately outside the equipment's operating frequency range, a resolution bandwidth of 30 kHz may be employed.

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 ~ 849 MHz) or horn antenna (1 850 ~ 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:

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

5.7.4 Test Result

Please refer to ANNEX A.7.

5.8 Receiver Spurious Emissions

5.8.1 Limit

RSS-Gen § 7.3/4 & 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 ports. 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 five times the highest tunable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.

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

Table 2 –Receiver radiated emissions 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 port connected to a measuring instrument having equal input impedance to that specified for the antenna. The RF cable connecting the receiver under test to the measuring instrument shall also have the same impedance to that specified for the receiver's antenna.

The spurious emissions from the receiver at any discrete frequency, measured at the antenna port by the antenna-conducted method, shall not exceed 2 nW in the frequency range 30-1000 MHz and 5 nW above 1 GHz.

5.8.2 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.

5.8.3 Test Procedure

The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

5.8.4 Test Result

Please refer to ANNEX A.8.

5.9 AC Power-line Conducted Emissions

5.9.1 Limit

RSS-Gen § 8.8

For AC power-line conducted emissions, both quasi-peak and average detectors having the characteristics specified in CAN/CSA-CISPR 16-1-1:15 for the 150 kHz to 30 MHz frequency range shall be employed.

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 3, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 3 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 3 –AC power-line conducted emissions limits

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ^{Note1}	56 to 46 ^{Note1}
0.5 - 5	56	46
5 - 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

5.9.2 Test Setup

The section 4.4.5 (Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);

The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.9.4 Test Result

Please refer to ANNEX A.9.

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	32.57	1.807
	MCH	5	32.66	1.845
	HCH	5	32.67	1.849
GPRS 850	LCH	5	32.58	1.811
	MCH	5	32.65	1.841
	HCH	5	32.69	1.858
EGPRS 850	LCH	8	29.16	0.824
	MCH	8	29.24	0.839
	HCH	8	29.18	0.828

Test Band	Test Channel	PCL	Conducted Output Peak Power (dBm)	Conducted Output Peak Power (W)
GSM 1900	LCH	0	29.93	0.984
	MCH	0	29.89	0.975
	HCH	0	29.76	0.946
GPRS 1900	LCH	0	29.90	0.977
	MCH	0	29.77	0.948
	HCH	0	29.71	0.935
EGPRS 1900	LCH	2	28.36	0.685
	MCH	2	28.10	0.646
	HCH	2	28.20	0.661

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	32.58	1.811	31.57	1.434	30.44	1.107	29.22	0.836
	MCH	32.65	1.841	31.59	1.442	30.41	1.100	29.31	0.854
	HCH	32.69	1.858	31.60	1.444	30.57	1.141	29.40	0.871
GPRS 1900	LCH	29.90	0.977	29.26	0.842	27.81	0.604	26.71	0.469
	MCH	29.77	0.948	29.13	0.819	27.82	0.605	26.69	0.467
	HCH	29.71	0.935	29.11	0.815	27.82	0.605	26.71	0.469

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	29.16	0.824	27.89	0.615	26.59	0.456	25.43	0.349
	MCH	29.24	0.839	27.93	0.620	26.72	0.470	25.57	0.360
	HCH	29.18	0.828	27.96	0.625	26.67	0.465	25.58	0.361
EGPRS 1900	LCH	28.36	0.685	27.00	0.501	25.77	0.377	24.58	0.287
	MCH	28.10	0.646	26.83	0.482	25.64	0.367	24.64	0.291
	HCH	28.20	0.661	26.91	0.490	25.59	0.363	24.42	0.277

WCDMA Mode Test Data:

Test Band	Test Channel	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
WCDMA Band 2	LCH	22.98	0.199
	MCH	23.06	0.202
	HCH	22.95	0.197
HSDPA Band 2	LCH	22.09	0.162
	MCH	22.00	0.158
	HCH	21.89	0.155
HSUPA Band 2	LCH	21.97	0.157
	MCH	21.91	0.155
	HCH	21.72	0.149

Test Band	Test Channel	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
WCDMA Band 5	LCH	23.15	0.207
	MCH	23.02	0.200
	HCH	22.94	0.197
HSDPA Band 5	LCH	22.18	0.165
	MCH	22.10	0.162
	HCH	22.02	0.159
HSUPA Band 5	LCH	22.11	0.163
	MCH	21.95	0.157
	HCH	21.94	0.156

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	21.94	0.156	22.09	0.162	21.61	0.145	21.5	0.141
	MCH	22.00	0.158	21.99	0.158	21.52	0.142	21.52	0.142
	HCH	21.79	0.151	21.89	0.155	21.42	0.139	21.32	0.136
HSDPA Band 5	LCH	22.03	0.160	22.18	0.165	21.67	0.147	21.68	0.147
	MCH	22.04	0.160	22.10	0.162	21.61	0.145	21.62	0.145
	HCH	21.94	0.156	22.02	0.159	21.43	0.139	21.46	0.140

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	21.97	0.157	20.00	0.100	21.02	0.126	19.99	0.100	21.63	0.146
	MCH	21.91	0.155	19.95	0.099	20.94	0.124	19.97	0.099	21.78	0.151
	HCH	21.72	0.149	19.69	0.093	20.78	0.120	19.79	0.095	21.55	0.143
HSUPA Band 5	LCH	22.11	0.163	20.05	0.101	21.15	0.130	20.27	0.106	21.89	0.155
	MCH	21.95	0.157	20.02	0.100	20.98	0.125	20.00	0.100	21.88	0.154
	HCH	21.94	0.156	19.90	0.098	20.85	0.122	20.01	0.100	21.78	0.151

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	23.81	0.240
			RB1#3	23.56	0.227
			RB1#5	23.86	0.243
			RB3#0	23.76	0.238
			RB3#2	23.73	0.236
			RB3#3	23.72	0.236
			RB6#0	22.61	0.182
		16-QAM	RB1#0	23.06	0.202
			RB1#3	23.18	0.208
			RB1#5	23.03	0.201
			RB3#0	23	0.200
			RB3#2	22.57	0.181
			RB3#3	22.52	0.179
			RB6#0	21.62	0.145
	MCH	QPSK	RB1#0	23.08	0.203
			RB1#3	23.29	0.213
			RB1#5	23.17	0.207
			RB3#0	23.28	0.213
			RB3#2	23.28	0.213
			RB3#3	23.39	0.218
			RB6#0	22.24	0.167
		16-QAM	RB1#0	22.14	0.164
			RB1#3	22.17	0.165
			RB1#5	22.06	0.161
			RB3#0	22.21	0.166
			RB3#2	22.37	0.173
			RB3#3	22.18	0.165
			RB6#0	21.12	0.129
	HCH	QPSK	RB1#0	23.36	0.217
			RB1#3	23.74	0.237
			RB1#5	23.53	0.225
			RB3#0	23.44	0.221
			RB3#2	23.37	0.217
			RB3#3	23.36	0.217
			RB6#0	22.41	0.174
		16-QAM	RB1#0	22.39	0.173
			RB1#3	22.56	0.180
			RB1#5	22.46	0.176

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
3 MHz			RB3#0	23	0.200
			RB3#2	22.94	0.197
			RB3#3	22.91	0.195
			RB6#0	21.62	0.145
	LCH	QPSK	RB1#0	23.74	0.237
			RB1#7	23.87	0.244
			RB1#14	23.59	0.229
			RB8#0	22.53	0.179
			RB8#4	22.56	0.180
			RB8#7	22.47	0.177
			RB15#0	22.73	0.187
		16-QAM	RB1#0	22.62	0.183
			RB1#7	22.86	0.193
			RB1#14	22.55	0.180
			RB8#0	21.69	0.148
			RB8#4	21.52	0.142
			RB8#7	21.34	0.136
			RB15#0	21.75	0.150
	MCH	QPSK	RB1#0	23.42	0.220
			RB1#7	23.21	0.209
			RB1#14	23.8	0.240
			RB8#0	22.6	0.182
			RB8#4	22.43	0.175
			RB8#7	22.39	0.173
			RB15#0	22.49	0.177
		16-QAM	RB1#0	22.19	0.166
			RB1#7	22.2	0.166
			RB1#14	22.33	0.171
			RB8#0	21.3	0.135
			RB8#4	21.24	0.133
			RB8#7	21.37	0.137
			RB15#0	21.32	0.136
	HCH	QPSK	RB1#0	23.36	0.217
			RB1#7	23.16	0.207
			RB1#14	23.29	0.213
			RB8#0	22.47	0.177
			RB8#4	22.44	0.175
			RB8#7	22.43	0.175
			RB15#0	22.44	0.175

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
		16-QAM	RB1#0	22.43	0.175
			RB1#7	22.31	0.170
			RB1#14	22.3	0.170
			RB8#0	21.69	0.148
			RB8#4	21.58	0.144
			RB8#7	21.22	0.132
			RB15#0	21.48	0.141
5 MHz	LCH	QPSK	RB1#0	23.58	0.228
			RB1#13	23.68	0.233
			RB1#24	23.5	0.224
			RB12#0	22.91	0.195
			RB12#6	22.7	0.186
			RB12#13	22.72	0.187
			RB25#0	22.87	0.194
		16-QAM	RB1#0	22.34	0.171
			RB1#13	22.34	0.171
			RB1#24	22.29	0.169
			RB12#0	21.58	0.144
			RB12#6	21.52	0.142
			RB12#13	21.5	0.141
			RB25#0	21.57	0.144
	MCH	QPSK	RB1#0	23.41	0.219
			RB1#13	23.42	0.220
			RB1#24	23.54	0.226
			RB12#0	22.45	0.176
			RB12#6	22.49	0.177
			RB12#13	22.36	0.172
			RB25#0	22.38	0.173
		16-QAM	RB1#0	22.59	0.182
			RB1#13	22.51	0.178
			RB1#24	22.03	0.160
			RB12#0	21.37	0.137
			RB12#6	21.4	0.138
			RB12#13	21.36	0.137
			RB25#0	21.52	0.142
	HCH	QPSK	RB1#0	23.41	0.219
			RB1#13	23.18	0.208
			RB1#24	23.46	0.222
			RB12#0	22.49	0.177

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB12#6	22.45	0.176
			RB12#13	22.48	0.177
			RB25#0	22.58	0.181
		16-QAM	RB1#0	22.12	0.163
			RB1#13	22.08	0.161
			RB1#24	22	0.158
			RB12#0	21.54	0.143
			RB12#6	21.36	0.137
			RB12#13	21.55	0.143
			RB25#0	21.24	0.133
10 MHz	LCH	QPSK	RB1#0	23.78	0.239
			RB1#25	23.99	0.251
			RB1#49	24.03	0.253
			RB25#0	22.73	0.187
			RB25#13	22.75	0.188
			RB25#25	22.78	0.190
			RB50#0	23.05	0.202
		16-QAM	RB1#0	23.1	0.204
			RB1#25	22.95	0.197
			RB1#49	23	0.200
			RB25#0	22.01	0.159
			RB25#13	21.83	0.152
			RB25#25	21.67	0.147
			RB50#0	21.71	0.148
	MCH	QPSK	RB1#0	23.72	0.236
			RB1#25	23.81	0.240
			RB1#49	23.82	0.241
			RB25#0	22.5	0.178
			RB25#13	22.52	0.179
			RB25#25	22.63	0.183
			RB50#0	22.47	0.177
		16-QAM	RB1#0	22.48	0.177
			RB1#25	22.25	0.168
			RB1#49	22.47	0.177
			RB25#0	21.49	0.141
			RB25#13	21.45	0.140
			RB25#25	21.56	0.143
			RB50#0	21.39	0.138
	HCH	QPSK	RB1#0	23.53	0.225

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB1#25	23.54	0.226
			RB1#49	23.77	0.238
			RB25#0	22.52	0.179
			RB25#13	22.47	0.177
			RB25#25	22.52	0.179
			RB50#0	22.57	0.181
		16-QAM	RB1#0	22.49	0.177
			RB1#25	22.47	0.177
			RB1#49	22.3	0.170
			RB25#0	21.67	0.147
			RB25#13	21.49	0.141
			RB25#25	21.39	0.138
			RB50#0	21.4	0.138
15 MHz	LCH	QPSK	RB1#0	23.72	0.236
			RB1#38	23.63	0.231
			RB1#74	23.86	0.243
			RB36#0	22.63	0.183
			RB36#19	22.79	0.190
			RB36#39	22.78	0.190
			RB75#0	22.66	0.185
		16-QAM	RB1#0	22.78	0.190
			RB1#38	22.57	0.181
			RB1#74	22.71	0.187
			RB36#0	21.81	0.152
			RB36#19	21.85	0.153
			RB36#39	21.66	0.147
			RB75#0	21.74	0.149
	MCH	QPSK	RB1#0	23.69	0.234
			RB1#38	23.51	0.224
			RB1#74	23.36	0.217
			RB36#0	22.49	0.177
			RB36#19	22.48	0.177
			RB36#39	22.55	0.180
			RB75#0	22.66	0.185
		16-QAM	RB1#0	22.58	0.181
			RB1#38	22.31	0.170
			RB1#74	22.48	0.177
			RB36#0	21.49	0.141
			RB36#19	21.48	0.141

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB36#39	21.49	0.141
			RB75#0	21.48	0.141
	HCH	QPSK	RB1#0	23.44	0.221
			RB1#38	23.31	0.214
			RB1#74	23.32	0.215
			RB36#0	22.64	0.184
			RB36#19	22.49	0.177
			RB36#39	22.52	0.179
			RB75#0	22.5	0.178
		16-QAM	RB1#0	23.48	0.223
			RB1#38	23.01	0.200
			RB1#74	23.26	0.212
			RB36#0	21.6	0.145
			RB36#19	21.37	0.137
			RB36#39	21.3	0.135
			RB75#0	21.39	0.138
20 MHz	LCH	QPSK	RB1#0	23.89	0.245
			RB1#50	23.94	0.248
			RB1#99	23.49	0.223
			RB50#0	22.86	0.193
			RB50#25	22.87	0.194
			RB50#50	22.74	0.188
			RB100#0	22.89	0.195
		16-QAM	RB1#0	22.88	0.194
			RB1#50	22.99	0.199
			RB1#99	22.18	0.165
			RB50#0	21.66	0.147
			RB50#25	21.86	0.153
			RB50#50	21.82	0.152
			RB100#0	21.79	0.151
	MCH	QPSK	RB1#0	23.64	0.231
			RB1#50	23.83	0.242
			RB1#99	23.72	0.236
			RB50#0	22.6	0.182
			RB50#25	22.52	0.179
			RB50#50	22.51	0.178
			RB100#0	22.62	0.183
		16-QAM	RB1#0	22.28	0.169
			RB1#50	22.37	0.173

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band2					
			RB1#99	22.27	0.169
			RB50#0	21.52	0.142
			RB50#25	21.44	0.139
			RB50#50	21.43	0.139
			RB100#0	21.43	0.139
	HCH	QPSK	RB1#0	23.47	0.222
			RB1#50	23.61	0.230
			RB1#99	23.32	0.215
			RB50#0	22.69	0.186
			RB50#25	22.65	0.184
			RB50#50	22.53	0.179
			RB100#0	22.59	0.182
		16-QAM	RB1#0	22.41	0.174
			RB1#50	22.4	0.174
			RB1#99	22.15	0.164
			RB50#0	21.65	0.146
			RB50#25	21.51	0.142
			RB50#50	21.41	0.138
			RB100#0	21.48	0.141

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	22.88	0.194
			RB1#3	23.03	0.201
			RB1#5	23.05	0.202
			RB3#0	23.16	0.207
			RB3#2	23.14	0.206
			RB3#3	23.08	0.203
			RB6#0	22.11	0.163
		16-QAM	RB1#0	22.39	0.173
			RB1#3	22.56	0.180
			RB1#5	22.42	0.175
			RB3#0	22.42	0.175
			RB3#2	22.41	0.174
			RB3#3	22.36	0.172
			RB6#0	21.31	0.135
	MCH	QPSK	RB1#0	23.11	0.205
			RB1#3	23.31	0.214
			RB1#5	23.18	0.208
			RB3#0	23.27	0.212
			RB3#2	23.41	0.219
			RB3#3	23.33	0.215
			RB6#0	22.44	0.175
		16-QAM	RB1#0	22.25	0.168
			RB1#3	22.21	0.166
			RB1#5	21.71	0.148
			RB3#0	22.17	0.165
			RB3#2	22.39	0.173
			RB3#3	22.22	0.167
			RB6#0	21.13	0.130
	HCH	QPSK	RB1#0	23.15	0.207
			RB1#3	23.35	0.216
			RB1#5	23.45	0.221
			RB3#0	23.38	0.218
			RB3#2	23.45	0.221
			RB3#3	23.32	0.215
			RB6#0	22.3	0.170
		16-QAM	RB1#0	22.22	0.167
			RB1#3	22.4	0.174
			RB1#5	22.38	0.173
			RB3#0	22.66	0.185

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	22.57	0.181
			RB3#3	22.33	0.171
			RB6#0	21.27	0.134
	LCH	QPSK	RB1#0	23.04	0.201
			RB1#7	23.07	0.203
			RB1#14	23.02	0.200
			RB8#0	22.13	0.163
			RB8#4	22.07	0.161
			RB8#7	22.08	0.161
			RB15#0	22.09	0.162
		16-QAM	RB1#0	21.89	0.155
			RB1#7	21.74	0.149
			RB1#14	21.88	0.154
			RB8#0	20.79	0.120
			RB8#4	20.82	0.121
			RB8#7	20.74	0.119
			RB15#0	21.25	0.133
	MCH	QPSK	RB1#0	23.31	0.214
			RB1#7	23.34	0.216
			RB1#14	23.47	0.222
			RB8#0	22.41	0.174
			RB8#4	22.37	0.173
			RB8#7	22.4	0.174
			RB15#0	22.4	0.174
		16-QAM	RB1#0	22.12	0.163
			RB1#7	22.13	0.163
			RB1#14	22.16	0.164
			RB8#0	21.24	0.133
			RB8#4	21.15	0.130
			RB8#7	21.33	0.136
			RB15#0	21.39	0.138
	HCH	QPSK	RB1#0	23.03	0.201
			RB1#7	23.13	0.206
			RB1#14	23.39	0.218
			RB8#0	22.3	0.170
			RB8#4	22.32	0.171
			RB8#7	22.27	0.169
			RB15#0	22.37	0.173
		16-QAM	RB1#0	22.45	0.176

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
			RB1#7	22.36	0.172
			RB1#14	22.17	0.165
			RB8#0	21.29	0.135
			RB8#4	21.35	0.136
			RB8#7	21.37	0.137
			RB15#0	21.26	0.134
5 MHz	LCH	QPSK	RB1#0	22.88	0.194
			RB1#13	22.94	0.197
			RB1#24	22.9	0.195
			RB12#0	22.04	0.160
			RB12#6	22.03	0.160
			RB12#13	22.08	0.161
		16-QAM	RB25#0	22.11	0.163
			RB1#0	21.42	0.139
			RB1#13	21.83	0.152
			RB1#24	21.42	0.139
			RB12#0	21.07	0.128
			RB12#6	21.03	0.127
			RB12#13	20.89	0.123
			RB25#0	21.18	0.131
	MCH	QPSK	RB1#0	23.25	0.211
			RB1#13	23.37	0.217
			RB1#24	23.22	0.210
			RB12#0	22.36	0.172
			RB12#6	22.34	0.171
			RB12#13	22.29	0.169
		16-QAM	RB25#0	22.33	0.171
			RB1#0	22.38	0.173
			RB1#13	22.43	0.175
			RB1#24	22.24	0.167
			RB12#0	21.14	0.130
			RB12#6	21.17	0.131
			RB12#13	21.18	0.131
			RB25#0	21.35	0.136
	HCH	QPSK	RB1#0	23.03	0.201
			RB1#13	23.38	0.218
			RB1#24	23.46	0.222
			RB12#0	22.21	0.166
			RB12#6	22.33	0.171

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
			RB12#13	22.51	0.178
			RB25#0	22.42	0.175
		16-QAM	RB1#0	22.49	0.177
			RB1#13	22.82	0.191
			RB1#24	22.37	0.173
			RB12#0	21.04	0.127
			RB12#6	21.27	0.134
			RB12#13	21.34	0.136
			RB25#0	21.26	0.134
10 MHz	LCH	QPSK	RB1#0	23.1	0.204
			RB1#25	23.34	0.216
			RB1#49	23.12	0.205
			RB25#0	22.17	0.165
			RB25#13	22.17	0.165
			RB25#25	22.16	0.164
			RB50#0	22.11	0.163
		16-QAM	RB1#0	22.13	0.163
			RB1#25	22.34	0.171
			RB1#49	22.03	0.160
			RB25#0	21.32	0.136
			RB25#13	21.24	0.133
			RB25#25	21.1	0.129
			RB50#0	21.14	0.130
	MCH	QPSK	RB1#0	23.17	0.207
			RB1#25	23.4	0.219
			RB1#49	23.33	0.215
			RB25#0	22.38	0.173
			RB25#13	22.41	0.174
			RB25#25	22.36	0.172
			RB50#0	22.37	0.173
		16-QAM	RB1#0	22.03	0.160
			RB1#25	22.09	0.162
			RB1#49	21.58	0.144
			RB25#0	21.18	0.131
			RB25#13	21.2	0.132
			RB25#25	21.29	0.135
			RB50#0	21.26	0.134
	HCH	QPSK	RB1#0	23.25	0.211
			RB1#25	23.43	0.220

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
			RB1#49	23.34	0.216
			RB25#0	22.23	0.167
			RB25#13	22.1	0.162
			RB25#25	22.28	0.169
			RB50#0	22.33	0.171
		16-QAM	RB1#0	22.29	0.169
			RB1#25	22.05	0.160
			RB1#49	21.97	0.157
			RB25#0	21.17	0.131
			RB25#13	21.23	0.133
			RB25#25	21.41	0.138
			RB50#0	21.22	0.132
15 MHz	LCH	QPSK	RB1#0	23.07	0.203
			RB1#38	23.21	0.209
			RB1#74	23.11	0.205
			RB36#0	22.09	0.162
			RB36#19	22.13	0.163
			RB36#39	22.28	0.169
			RB75#0	22.11	0.163
		16-QAM	RB1#0	22.22	0.167
			RB1#38	22.73	0.187
			RB1#74	22.18	0.165
			RB36#0	21.22	0.132
			RB36#19	21.16	0.131
			RB36#39	21.06	0.128
			RB75#0	21.11	0.129
	MCH	QPSK	RB1#0	23.28	0.213
			RB1#38	23.24	0.211
			RB1#74	23.36	0.217
			RB36#0	22.45	0.176
			RB36#19	22.39	0.173
			RB36#39	22.35	0.172
			RB75#0	22.34	0.171
		16-QAM	RB1#0	22.28	0.169
			RB1#38	22.14	0.164
			RB1#74	22.19	0.166
			RB36#0	21.31	0.135
			RB36#19	21.29	0.135
			RB36#39	21.26	0.134

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
20 MHz	HCH	QPSK	RB75#0	21.31	0.135
			RB1#0	23.5	0.224
			RB1#38	23.17	0.207
			RB1#74	23.37	0.217
			RB36#0	22.34	0.171
			RB36#19	22.19	0.166
			RB36#39	22.17	0.165
			RB75#0	22.27	0.169
		16-QAM	RB1#0	22.98	0.199
			RB1#38	23	0.200
			RB1#74	22.96	0.198
			RB36#0	21.22	0.132
			RB36#19	21.15	0.130
			RB36#39	21.11	0.129
			RB75#0	21.26	0.134
20 MHz	LCH	QPSK	RB1#0	22.87	0.194
			RB1#50	23.4	0.219
			RB1#99	22.95	0.197
			RB50#0	22.21	0.166
			RB50#25	22.17	0.165
			RB50#50	22.29	0.169
			RB100#0	22.28	0.169
		16-QAM	RB1#0	22.18	0.165
			RB1#50	22.56	0.180
			RB1#99	21.8	0.151
			RB50#0	21.06	0.128
			RB50#25	21.14	0.130
			RB50#50	21.16	0.131
			RB100#0	21.26	0.134
	MCH	QPSK	RB1#0	23.62	0.230
			RB1#50	23.69	0.234
			RB1#99	23.4	0.219
			RB50#0	22.38	0.173
			RB50#25	22.35	0.172
			RB50#50	22.38	0.173
			RB100#0	22.4	0.174
		16-QAM	RB1#0	21.99	0.158
			RB1#50	22.08	0.161
			RB1#99	22.22	0.167

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band4					
			RB50#0	21.32	0.136
			RB50#25	21.53	0.142
			RB50#50	21.46	0.140
			RB100#0	21.36	0.137
	HCH	QPSK	RB1#0	23.23	0.210
			RB1#50	23.5	0.224
			RB1#99	23.16	0.207
			RB50#0	22.53	0.179
			RB50#25	22.38	0.173
			RB50#50	22.27	0.169
			RB100#0	22.35	0.172
		16-QAM	RB1#0	22.25	0.168
			RB1#50	22.14	0.164
			RB1#99	22.14	0.164
			RB50#0	21.28	0.134
			RB50#25	21.27	0.134
			RB50#50	21.13	0.130
			RB100#0	21.24	0.133

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	22.83	0.192
			RB1#3	22.94	0.197
			RB1#5	22.91	0.195
			RB3#0	22.89	0.195
			RB3#2	22.92	0.196
			RB3#3	22.95	0.197
			RB6#0	21.85	0.153
		16-QAM	RB1#0	21.83	0.152
			RB1#3	21.77	0.150
			RB1#5	21.75	0.150
			RB3#0	21.87	0.154
			RB3#2	21.89	0.155
			RB3#3	21.98	0.158
			RB6#0	20.94	0.124
	MCH	QPSK	RB1#0	22.72	0.187
			RB1#3	22.96	0.198
			RB1#5	22.81	0.191
			RB3#0	22.85	0.193
			RB3#2	22.92	0.196
			RB3#3	22.98	0.199
			RB6#0	22.05	0.160
		16-QAM	RB1#0	21.9	0.155
			RB1#3	21.87	0.154
			RB1#5	21.83	0.152
			RB3#0	21.93	0.156
			RB3#2	21.98	0.158
			RB3#3	21.82	0.152
			RB6#0	20.7	0.117
	HCH	QPSK	RB1#0	23.08	0.203
			RB1#3	23.22	0.210
			RB1#5	23.08	0.203
			RB3#0	23.09	0.204
			RB3#2	23.01	0.200
			RB3#3	22.99	0.199
			RB6#0	22.05	0.160
		16-QAM	RB1#0	22.03	0.160
			RB1#3	22.09	0.162
			RB1#5	21.98	0.158
			RB3#0	22.3	0.170

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#2	22.32	0.171
			RB3#3	22.19	0.166
			RB6#0	21.01	0.126
	LCH	QPSK	RB1#0	22.86	0.193
			RB1#7	22.92	0.196
			RB1#14	22.85	0.193
			RB8#0	22.15	0.164
			RB8#4	22.08	0.161
			RB8#7	22.12	0.163
			RB15#0	22.06	0.161
		16-QAM	RB1#0	22.05	0.160
			RB1#7	22.06	0.161
			RB1#14	22.08	0.161
			RB8#0	21.12	0.129
			RB8#4	20.79	0.120
			RB8#7	20.66	0.116
			RB15#0	21.04	0.127
	MCH	QPSK	RB1#0	22.84	0.192
			RB1#7	22.78	0.190
			RB1#14	22.86	0.193
			RB8#0	22.01	0.159
			RB8#4	21.98	0.158
			RB8#7	22.03	0.160
			RB15#0	22.02	0.159
		16-QAM	RB1#0	21.87	0.154
			RB1#7	21.9	0.155
			RB1#14	21.9	0.155
			RB8#0	20.93	0.124
			RB8#4	20.92	0.124
			RB8#7	21.04	0.127
			RB15#0	21.17	0.131
	HCH	QPSK	RB1#0	22.87	0.194
			RB1#7	22.94	0.197
			RB1#14	22.87	0.194
			RB8#0	22.02	0.159
			RB8#4	22.12	0.163
			RB8#7	22.06	0.161
			RB15#0	22.09	0.162
		16-QAM	RB1#0	21.99	0.158

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band5					
			RB1#7	21.88	0.154
			RB1#14	21.93	0.156
			RB8#0	21.05	0.127
			RB8#4	21.24	0.133
			RB8#7	20.96	0.125
			RB15#0	20.78	0.120
5 MHz	LCH	QPSK	RB1#0	22.82	0.191
			RB1#13	22.93	0.196
			RB1#24	23.05	0.202
			RB12#0	22.02	0.159
			RB12#6	22.05	0.160
			RB12#13	22.08	0.161
		16-QAM	RB25#0	21.94	0.156
			RB1#0	21.49	0.141
			RB1#13	21.38	0.137
			RB1#24	21.47	0.140
			RB12#0	20.84	0.121
			RB12#6	20.97	0.125
			RB12#13	21.1	0.129
			RB25#0	21.17	0.131
	MCH	QPSK	RB1#0	22.79	0.190
			RB1#13	22.81	0.191
			RB1#24	22.75	0.188
			RB12#0	22.06	0.161
			RB12#6	22.05	0.160
			RB12#13	21.97	0.157
		16-QAM	RB25#0	21.98	0.158
			RB1#0	21.51	0.142
			RB1#13	21.56	0.143
			RB1#24	21.41	0.138
			RB12#0	20.96	0.125
			RB12#6	20.95	0.124
			RB12#13	20.96	0.125
			RB25#0	21	0.126
	HCH	QPSK	RB1#0	23.04	0.201
			RB1#13	23.01	0.200
			RB1#24	22.99	0.199
			RB12#0	22.02	0.159
			RB12#6	22.05	0.160

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band5					
			RB12#13	22.04	0.160
			RB25#0	22.06	0.161
		16-QAM	RB1#0	21.88	0.154
			RB1#13	21.89	0.155
			RB1#24	21.67	0.147
			RB12#0	21.12	0.129
			RB12#6	21.05	0.127
			RB12#13	21.01	0.126
			RB25#0	21.09	0.129
10 MHz	LCH	QPSK	RB1#0	22.94	0.197
			RB1#25	23.41	0.219
			RB1#49	22.84	0.192
			RB25#0	22.01	0.159
			RB25#13	22.08	0.161
			RB25#25	22.03	0.160
			RB50#0	22.17	0.165
		16-QAM	RB1#0	21.85	0.153
			RB1#25	22.51	0.178
			RB1#49	21.9	0.155
			RB25#0	20.96	0.125
			RB25#13	21.05	0.127
			RB25#25	21.08	0.128
			RB50#0	21.11	0.129
	MCH	QPSK	RB1#0	22.98	0.199
			RB1#25	23.04	0.201
			RB1#49	23.04	0.201
			RB25#0	22.04	0.160
			RB25#13	22.04	0.160
			RB25#25	22.08	0.161
			RB50#0	22.1	0.162
		16-QAM	RB1#0	21.97	0.157
			RB1#25	21.94	0.156
			RB1#49	22.07	0.161
			RB25#0	21.03	0.127
			RB25#13	21.05	0.127
			RB25#25	21.04	0.127
			RB50#0	20.98	0.125
	HCH	QPSK	RB1#0	22.96	0.198
			RB1#25	23.45	0.221

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band5					
			RB1#49	23.1	0.204
			RB25#0	21.97	0.157
			RB25#13	22.1	0.162
			RB25#25	22.05	0.160
			RB50#0	22.17	0.165
		16-QAM	RB1#0	22.09	0.162
			RB1#25	22.3	0.170
			RB1#49	22.04	0.160
			RB25#0	21.25	0.133
			RB25#13	21.27	0.134
			RB25#25	21.28	0.134
			RB50#0	21.03	0.127

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	22.57	0.181
			RB1#13	22.74	0.188
			RB1#24	22.66	0.185
			RB12#0	21.7	0.148
			RB12#6	21.74	0.149
			RB12#13	21.69	0.148
			RB25#0	21.73	0.149
		16-QAM	RB1#0	21.33	0.136
			RB1#13	21.33	0.136
			RB1#24	21.05	0.127
			RB12#0	20.61	0.115
			RB12#6	20.66	0.116
			RB12#13	20.4	0.110
			RB25#0	20.63	0.116
	MCH	QPSK	RB1#0	22.51	0.178
			RB1#13	22.74	0.188
			RB1#24	22.52	0.179
			RB12#0	21.63	0.146
			RB12#6	21.68	0.147
			RB12#13	21.65	0.146
			RB25#0	21.59	0.144
		16-QAM	RB1#0	21.58	0.144
			RB1#13	21.64	0.146
			RB1#24	21.2	0.132
			RB12#0	20.7	0.117
			RB12#6	20.69	0.117
			RB12#13	20.69	0.117
			RB25#0	20.52	0.113
	HCH	QPSK	RB1#0	22.66	0.185
			RB1#13	22.92	0.196
			RB1#24	22.8	0.191
			RB12#0	21.78	0.151
			RB12#6	21.78	0.151
			RB12#13	21.74	0.149
			RB25#0	21.85	0.153
		16-QAM	RB1#0	21.57	0.144
			RB1#13	21.6	0.145
			RB1#24	20.92	0.124
			RB12#0	20.55	0.114

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
10 MHz	LCH		RB12#6	20.63	0.116
			RB12#13	20.52	0.113
			RB25#0	20.67	0.117
	LCH	QPSK	RB1#0	22.8	0.191
			RB1#25	22.98	0.199
			RB1#49	22.69	0.186
			RB25#0	21.82	0.152
			RB25#13	21.85	0.153
			RB25#25	21.8	0.151
			RB50#0	21.8	0.151
		16-QAM	RB1#0	21.7	0.148
			RB1#25	22.2	0.166
			RB1#49	21.56	0.143
			RB25#0	20.71	0.118
			RB25#13	20.74	0.119
			RB25#25	20.66	0.116
			RB50#0	20.78	0.120
	MCH	QPSK	RB1#0	22.7	0.186
			RB1#25	23.33	0.215
			RB1#49	22.82	0.191
			RB25#0	21.66	0.147
			RB25#13	21.74	0.149
			RB25#25	21.71	0.148
			RB50#0	21.67	0.147
		16-QAM	RB1#0	21.54	0.143
			RB1#25	21.33	0.136
			RB1#49	21.03	0.127
			RB25#0	20.69	0.117
			RB25#13	20.66	0.116
			RB25#25	20.77	0.119
			RB50#0	20.68	0.117
	HCH	QPSK	RB1#0	22.61	0.182
			RB1#25	23.09	0.204
			RB1#49	22.77	0.189
			RB25#0	21.86	0.153
			RB25#13	21.97	0.157
			RB25#25	21.97	0.157
			RB50#0	21.86	0.153
		16-QAM	RB1#0	21.67	0.147

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
			RB1#25	21.74	0.149
			RB1#49	21.85	0.153
			RB25#0	20.9	0.123
			RB25#13	21.06	0.128
			RB25#25	20.98	0.125
			RB50#0	20.79	0.120
15 MHz	LCH	QPSK	RB1#0	22.83	0.192
			RB1#38	22.75	0.188
			RB1#74	22.67	0.185
			RB36#0	21.81	0.152
			RB36#19	21.78	0.151
			RB36#39	21.81	0.152
			RB75#0	21.79	0.151
		16-QAM	RB1#0	21.85	0.153
			RB1#38	22.28	0.169
			RB1#74	21.53	0.142
			RB36#0	20.72	0.118
			RB36#19	20.77	0.119
			RB36#39	20.71	0.118
			RB75#0	20.7	0.117
	MCH	QPSK	RB1#0	22.74	0.188
			RB1#38	22.87	0.194
			RB1#74	22.68	0.185
			RB36#0	21.72	0.149
			RB36#19	21.73	0.149
			RB36#39	21.67	0.147
			RB75#0	21.69	0.148
		16-QAM	RB1#0	21.58	0.144
			RB1#38	21.58	0.144
			RB1#74	21.01	0.126
			RB36#0	20.75	0.119
			RB36#19	20.66	0.116
			RB36#39	20.75	0.119
			RB75#0	20.52	0.113
	HCH	QPSK	RB1#0	22.23	0.167
			RB1#38	22.74	0.188
			RB1#74	22.63	0.183
			RB36#0	21.91	0.155
			RB36#19	21.88	0.154

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
			RB36#39	21.95	0.157
			RB75#0	21.85	0.153
		16-QAM	RB1#0	21.7	0.148
			RB1#38	23.06	0.202
			RB1#74	22.06	0.161
			RB36#0	20.78	0.120
			RB36#19	20.8	0.120
			RB36#39	20.79	0.120
			RB75#0	20.82	0.121
20 MHz	LCH	QPSK	RB1#0	21.26	0.134
			RB1#50	22.53	0.179
			RB1#99	21.86	0.153
			RB50#0	21.84	0.153
			RB50#25	21.81	0.152
			RB50#50	21.73	0.149
			RB100#0	21.82	0.152
		16-QAM	RB1#0	20.71	0.118
			RB1#50	22.06	0.161
			RB1#99	21.25	0.133
			RB50#0	20.93	0.124
			RB50#25	20.91	0.123
			RB50#50	20.73	0.118
			RB100#0	20.79	0.120
	MCH	QPSK	RB1#0	21.78	0.151
			RB1#50	23.23	0.210
			RB1#99	21.84	0.153
			RB50#0	21.67	0.147
			RB50#25	21.76	0.150
			RB50#50	21.66	0.147
			RB100#0	21.73	0.149
		16-QAM	RB1#0	21.2	0.132
			RB1#50	21.46	0.140
			RB1#99	21.23	0.133
			RB50#0	20.67	0.117
			RB50#25	20.67	0.117
			RB50#50	20.64	0.116
			RB100#0	20.72	0.118
	HCH	QPSK	RB1#0	20.53	0.113
			RB1#50	22.24	0.167

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band7					
			RB1#99	21.55	0.143
			RB50#0	21.87	0.154
			RB50#25	21.97	0.157
			RB50#50	21.89	0.155
			RB100#0	21.93	0.156
		16-QAM	RB1#0	19.94	0.099
			RB1#50	21.7	0.148
			RB1#99	21	0.126
			RB50#0	20.79	0.120
			RB50#25	20.8	0.120
			RB50#50	20.77	0.119
			RB100#0	20.77	0.119

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band12					
1.4 MHz	LCH	QPSK	RB1#0	23.08	0.203
			RB1#3	22.99	0.199
			RB1#5	22.98	0.199
			RB3#0	22.97	0.198
			RB3#2	23.11	0.205
			RB3#3	23.02	0.200
			RB6#0	22.02	0.159
		16-QAM	RB1#0	22.28	0.169
			RB1#3	22.32	0.171
			RB1#5	22.25	0.168
			RB3#0	22.02	0.159
			RB3#2	22.08	0.161
			RB3#3	22	0.158
			RB6#0	21.06	0.128
	MCH	QPSK	RB1#0	23	0.200
			RB1#3	22.98	0.199
			RB1#5	22.82	0.191
			RB3#0	22.98	0.199
			RB3#2	23.3	0.214
			RB3#3	23.07	0.203

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band12					
		16-QAM	RB6#0	22.19	0.166
			RB1#0	21.79	0.151
			RB1#3	21.79	0.151
			RB1#5	21.71	0.148
			RB3#0	21.55	0.143
			RB3#2	21.77	0.150
			RB3#3	21.89	0.155
			RB6#0	20.76	0.119
		QPSK	RB1#0	22.98	0.199
			RB1#3	23.2	0.209
			RB1#5	23.09	0.204
			RB3#0	22.93	0.196
			RB3#2	23.17	0.207
			RB3#3	23.09	0.204
			RB6#0	22.06	0.161
	HCH	16-QAM	RB1#0	22.05	0.160
			RB1#3	22.16	0.164
			RB1#5	22.21	0.166
			RB3#0	21.84	0.153
			RB3#2	21.95	0.157
			RB3#3	21.86	0.153
			RB6#0	21.03	0.127
3 MHz	LCH	QPSK	RB1#0	22.98	0.199
			RB1#7	22.96	0.198
			RB1#14	22.86	0.193
			RB8#0	22.05	0.160
			RB8#4	21.99	0.158
			RB8#7	22.03	0.160
			RB15#0	22.08	0.161
		16-QAM	RB1#0	21.87	0.154
			RB1#7	22.42	0.175
			RB1#14	22.22	0.167
			RB8#0	21.11	0.129
			RB8#4	21.1	0.129
			RB8#7	21.1	0.129
			RB15#0	21.01	0.126
	MCH	QPSK	RB1#0	23.18	0.208
			RB1#7	22.98	0.199
			RB1#14	22.93	0.196

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band12					
			RB8#0	22.14	0.164
			RB8#4	22.24	0.167
			RB8#7	22.15	0.164
			RB15#0	22.13	0.163
		16-QAM	RB1#0	21.77	0.150
			RB1#7	21.81	0.152
			RB1#14	21.85	0.153
			RB8#0	20.97	0.125
			RB8#4	20.9	0.123
			RB8#7	20.98	0.125
			RB15#0	21.09	0.129
	HCH	QPSK	RB1#0	23.11	0.205
			RB1#7	23.05	0.202
			RB1#14	23.13	0.206
			RB8#0	22.02	0.159
			RB8#4	22.01	0.159
			RB8#7	22.03	0.160
			RB15#0	22.04	0.160
		16-QAM	RB1#0	22.1	0.162
			RB1#7	21.95	0.157
			RB1#14	21.98	0.158
			RB8#0	20.8	0.120
			RB8#4	20.74	0.119
			RB8#7	20.82	0.121
			RB15#0	20.76	0.119
5 MHz	LCH	QPSK	RB1#0	23.01	0.200
			RB1#13	22.78	0.190
			RB1#24	22.72	0.187
			RB12#0	21.93	0.156
			RB12#6	21.99	0.158
			RB12#13	22.02	0.159
			RB25#0	21.98	0.158
		16-QAM	RB1#0	21.68	0.147
			RB1#13	21.62	0.145
			RB1#24	20.99	0.126
			RB12#0	20.82	0.121
			RB12#6	20.98	0.125
			RB12#13	20.93	0.124
			RB25#0	21.02	0.126

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band12					
	MCH	QPSK	RB1#0	22.98	0.199
			RB1#13	22.95	0.197
			RB1#24	22.87	0.194
			RB12#0	22.12	0.163
			RB12#6	22.07	0.161
			RB12#13	22.06	0.161
			RB25#0	22.05	0.160
		16-QAM	RB1#0	22.09	0.162
			RB1#13	22.07	0.161
			RB1#24	21.54	0.143
			RB12#0	20.93	0.124
			RB12#6	20.91	0.123
			RB12#13	21.05	0.127
			RB25#0	21.05	0.127
	HCH	QPSK	RB1#0	22.79	0.190
			RB1#13	23.12	0.205
			RB1#24	22.79	0.190
			RB12#0	22.07	0.161
			RB12#6	22.03	0.160
			RB12#13	22.01	0.159
			RB25#0	21.99	0.158
		16-QAM	RB1#0	21.66	0.147
			RB1#13	21.68	0.147
			RB1#24	21.23	0.133
			RB12#0	20.83	0.121
			RB12#6	20.97	0.125
			RB12#13	20.99	0.126
			RB25#0	20.8	0.120
10 MHz	LCH	QPSK	RB1#0	23	0.200
			RB1#25	22.95	0.197
			RB1#49	22.94	0.197
			RB25#0	22.03	0.160
			RB25#13	22.07	0.161
			RB25#25	22.12	0.163
			RB50#0	22.06	0.161
		16-QAM	RB1#0	21.9	0.155
			RB1#25	22.53	0.179
			RB1#49	21.8	0.151
			RB25#0	20.85	0.122

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band12					
	MCH		RB25#13	20.94	0.124
			RB25#25	21.03	0.127
			RB50#0	20.98	0.125
		QPSK	RB1#0	22.82	0.191
			RB1#25	23.35	0.216
			RB1#49	22.85	0.193
			RB25#0	22.08	0.161
			RB25#13	22.11	0.163
			RB25#25	22.05	0.160
			RB50#0	22.06	0.161
		16-QAM	RB1#0	21.69	0.148
			RB1#25	21.81	0.152
			RB1#49	21.24	0.133
			RB25#0	21.02	0.126
			RB25#13	21.21	0.132
			RB25#25	20.99	0.126
			RB50#0	21.13	0.130
	HCH	QPSK	RB1#0	22.99	0.199
			RB1#25	23.34	0.216
			RB1#49	22.99	0.199
			RB25#0	22.17	0.165
			RB25#13	22.09	0.162
			RB25#25	22.07	0.161
			RB50#0	22.08	0.161
		16-QAM	RB1#0	22.07	0.161
			RB1#25	21.97	0.157
			RB1#49	21.48	0.141
			RB25#0	21.07	0.128
			RB25#13	20.98	0.125
			RB25#25	20.97	0.125
			RB50#0	20.95	0.124

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band13					
5 MHz	LCH	QPSK	RB1#0	23.22	0.210
			RB1#13	23.4	0.219
			RB1#24	23.33	0.215
			RB12#0	22.4	0.174
			RB12#6	22.43	0.175
			RB12#13	22.48	0.177
			RB25#0	22.4	0.174
		16-QAM	RB1#0	21.99	0.158
			RB1#13	22.09	0.162
			RB1#24	21.8	0.151
			RB12#0	21.21	0.132
			RB12#6	21.22	0.132
			RB12#13	21.2	0.132
			RB25#0	21.46	0.140
	MCH	QPSK	RB1#0	23.32	0.215
			RB1#13	23.67	0.233
			RB1#24	23.25	0.211
			RB12#0	22.47	0.177
			RB12#6	22.51	0.178
			RB12#13	22.37	0.173
			RB25#0	22.42	0.175
		16-QAM	RB1#0	22.35	0.172
			RB1#13	22.44	0.175
			RB1#24	22.03	0.160
			RB12#0	21.19	0.132
			RB12#6	21.32	0.136
			RB12#13	21.3	0.135
			RB25#0	21.33	0.136
	HCH	QPSK	RB1#0	23.18	0.208
			RB1#13	23.49	0.223
			RB1#24	22.95	0.197
			RB12#0	22.44	0.175
			RB12#6	22.39	0.173
			RB12#13	22.41	0.174
			RB25#0	22.39	0.173
		16-QAM	RB1#0	22.21	0.166
			RB1#13	22.17	0.165
			RB1#24	21.56	0.143
			RB12#0	21.18	0.131

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band13					
10 MHz	MCH		RB12#6	21.24	0.133
			RB12#13	21.04	0.127
			RB25#0	21.22	0.132
		QPSK	RB1#0	23.32	0.215
			RB1#25	23.52	0.225
			RB1#49	22.79	0.190
			RB25#0	22.43	0.175
			RB25#13	22.38	0.173
			RB25#25	22.41	0.174
			RB50#0	22.42	0.175
		16-QAM	RB1#0	22.14	0.164
			RB1#25	22.76	0.189
			RB1#49	21.77	0.150
			RB25#0	21.48	0.141
			RB25#13	21.35	0.136
			RB25#25	21.3	0.135
			RB50#0	21.37	0.137

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	22.79	0.190
			RB1#13	23.04	0.201
			RB1#24	22.84	0.192
			RB12#0	21.9	0.155
			RB12#6	21.98	0.158
			RB12#13	21.93	0.156
			RB25#0	22.02	0.159
		16-QAM	RB1#0	21.91	0.155
			RB1#13	21.6	0.145
			RB1#24	21.33	0.136
			RB12#0	20.72	0.118
			RB12#6	21	0.126
			RB12#13	20.77	0.119
			RB25#0	20.93	0.124
	MCH	QPSK	RB1#0	22.83	0.192
			RB1#13	22.85	0.193
			RB1#24	22.79	0.190
			RB12#0	22.05	0.160
			RB12#6	22.02	0.159
			RB12#13	22.08	0.161
			RB25#0	21.98	0.158
		16-QAM	RB1#0	21.98	0.158
			RB1#13	22.06	0.161
			RB1#24	21.4	0.138
			RB12#0	20.95	0.124
			RB12#6	20.94	0.124
			RB12#13	20.81	0.121
			RB25#0	21.15	0.130
	HCH	QPSK	RB1#0	23.1	0.204
			RB1#13	23.09	0.204
			RB1#24	22.85	0.193
			RB12#0	22.05	0.160
			RB12#6	22.09	0.162
			RB12#13	21.88	0.154
			RB25#0	21.96	0.157
		16-QAM	RB1#0	21.65	0.146
			RB1#13	21.58	0.144
			RB1#24	21.02	0.126
			RB12#0	20.82	0.121

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#6	20.95	0.124
			RB12#13	20.86	0.122
			RB25#0	20.88	0.122
	LCH	QPSK	RB1#0	22.91	0.195
			RB1#25	23.07	0.203
			RB1#49	22.97	0.198
			RB25#0	22.16	0.164
			RB25#13	22.06	0.161
			RB25#25	22.15	0.164
			RB50#0	22.21	0.166
		16-QAM	RB1#0	22	0.158
			RB1#25	22.56	0.180
			RB1#49	21.89	0.155
			RB25#0	21.27	0.134
			RB25#13	20.99	0.126
			RB25#25	21.07	0.128
			RB50#0	21.13	0.130
	MCH	QPSK	RB1#0	22.78	0.190
			RB1#25	23.48	0.223
			RB1#49	22.83	0.192
			RB25#0	21.98	0.158
			RB25#13	21.99	0.158
			RB25#25	22.1	0.162
			RB50#0	22.08	0.161
		16-QAM	RB1#0	21.69	0.148
			RB1#25	21.68	0.147
			RB1#49	21.17	0.131
			RB25#0	21.21	0.132
			RB25#13	20.91	0.123
			RB25#25	20.95	0.124
			RB50#0	21.12	0.129
	HCH	QPSK	RB1#0	22.88	0.194
			RB1#25	23.24	0.211
			RB1#49	22.77	0.189
			RB25#0	22.05	0.160
			RB25#13	22.06	0.161
			RB25#25	22.03	0.160
			RB50#0	22.07	0.161
		16-QAM	RB1#0	22.05	0.160

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band17					
			RB1#25	21.95	0.157
			RB1#49	21.71	0.148
			RB25#0	21.09	0.129
			RB25#13	20.98	0.125
			RB25#25	20.94	0.124
			RB50#0	20.95	0.124

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band25					
1.4 MHz	LCH	QPSK	RB1#0	23.63	0.231
			RB1#3	23.78	0.239
			RB1#5	23.55	0.226
			RB3#0	23.26	0.212
			RB3#2	23.47	0.222
			RB3#3	23.61	0.230
			RB6#0	22.43	0.175
		16-QAM	RB1#0	22.33	0.171
			RB1#3	22.29	0.169
			RB1#5	22.13	0.163
			RB3#0	22.38	0.173
			RB3#2	22.3	0.170
			RB3#3	22.26	0.168
			RB6#0	21.39	0.138
	MCH	QPSK	RB1#0	22.74	0.188
			RB1#3	22.96	0.198
			RB1#5	22.75	0.188
			RB3#0	22.88	0.194
			RB3#2	23.11	0.205
			RB3#3	22.94	0.197
			RB6#0	22.07	0.161
		16-QAM	RB1#0	21.84	0.153
			RB1#3	21.79	0.151
			RB1#5	21.6	0.145
			RB3#0	21.75	0.150
			RB3#2	21.72	0.149

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band25					
			RB3#3	21.55	0.143
			RB6#0	20.66	0.116
	HCH	QPSK	RB1#0	22.94	0.197
			RB1#3	23.07	0.203
			RB1#5	23.12	0.205
			RB3#0	22.92	0.196
			RB3#2	23.21	0.209
			RB3#3	23.17	0.207
			RB6#0	22.06	0.161
			16-QAM	RB1#0	21.93
		RB1#3		22.07	0.161
		RB1#5		22.01	0.159
		RB3#0		21.85	0.153
		RB3#2		21.92	0.156
		RB3#3		21.78	0.151
		RB6#0	20.94	0.124	
3 MHz	LCH	QPSK	RB1#0	23.47	0.222
			RB1#7	23.15	0.207
			RB1#14	23.43	0.220
			RB8#0	22.41	0.174
			RB8#4	22.32	0.171
			RB8#7	22.35	0.172
			RB15#0	22.33	0.171
		16-QAM	RB1#0	22.34	0.171
			RB1#7	22.14	0.164
			RB1#14	22.51	0.178
			RB8#0	21.21	0.132
			RB8#4	21.14	0.130
			RB8#7	21.34	0.136
			RB15#0	21.3	0.135
	MCH	QPSK	RB1#0	22.91	0.195
			RB1#7	22.87	0.194
			RB1#14	22.7	0.186
			RB8#0	22.1	0.162
			RB8#4	22.03	0.160
			RB8#7	21.97	0.157
			RB15#0	21.99	0.158
		16-QAM	RB1#0	21.72	0.149
	RB1#7	21.72	0.149		

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band25					
			RB1#14	21.74	0.149
			RB8#0	21.11	0.129
			RB8#4	21.2	0.132
			RB8#7	21.12	0.129
			RB15#0	20.94	0.124
	HCH	QPSK	RB1#0	23.3	0.214
			RB1#7	23.29	0.213
			RB1#14	22.97	0.198
			RB8#0	22.02	0.159
			RB8#4	22.01	0.159
			RB8#7	22.12	0.163
			RB15#0	22.04	0.160
		16-QAM	RB1#0	21.96	0.157
			RB1#7	22.15	0.164
			RB1#14	21.99	0.158
			RB8#0	20.63	0.116
			RB8#4	21.1	0.129
			RB8#7	21.21	0.132
RB15#0	20.74	0.119			
5 MHz	LCH	QPSK	RB1#0	23.37	0.217
			RB1#13	23.3	0.214
			RB1#24	23.1	0.204
			RB12#0	22.32	0.171
			RB12#6	22.28	0.169
			RB12#13	22.26	0.168
			RB25#0	22.18	0.165
		16-QAM	RB1#0	21.67	0.147
			RB1#13	21.5	0.141
			RB1#24	21.3	0.135
			RB12#0	21.21	0.132
			RB12#6	21.11	0.129
			RB12#13	21.23	0.133
			RB25#0	21.38	0.137
	MCH	QPSK	RB1#0	22.92	0.196
			RB1#13	22.92	0.196
			RB1#24	23.16	0.207
			RB12#0	22.05	0.160
			RB12#6	22.02	0.159
			RB12#13	21.97	0.157

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band25					
		16-QAM	RB25#0	22	0.158
			RB1#0	22.04	0.160
			RB1#13	22.07	0.161
			RB1#24	21.9	0.155
			RB12#0	20.96	0.125
			RB12#6	20.95	0.124
			RB12#13	20.95	0.124
			RB25#0	20.86	0.122
	HCH	QPSK	RB1#0	22.72	0.187
			RB1#13	22.92	0.196
			RB1#24	22.84	0.192
			RB12#0	22.03	0.160
			RB12#6	22.02	0.159
			RB12#13	22.02	0.159
			RB25#0	22.04	0.160
		16-QAM	RB1#0	21.77	0.150
			RB1#13	21.5	0.141
			RB1#24	21.64	0.146
			RB12#0	20.83	0.121
			RB12#6	20.9	0.123
			RB12#13	21.06	0.128
			RB25#0	20.85	0.122
10 MHz	LCH	QPSK	RB1#0	23.27	0.212
			RB1#25	23.17	0.207
			RB1#49	23.05	0.202
			RB25#0	22.27	0.169
			RB25#13	22.23	0.167
			RB25#25	22.22	0.167
			RB50#0	22.3	0.170
		16-QAM	RB1#0	23.09	0.204
			RB1#25	22.77	0.189
			RB1#49	22.71	0.187
			RB25#0	21.27	0.134
			RB25#13	21.23	0.133
			RB25#25	21.17	0.131
			RB50#0	21.27	0.134
	MCH	QPSK	RB1#0	23.12	0.205
			RB1#25	23.37	0.217
			RB1#49	23.13	0.206

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band25					
			RB25#0	22.05	0.160
			RB25#13	22.08	0.161
			RB25#25	22.07	0.161
			RB50#0	21.99	0.158
		16-QAM	RB1#0	21.54	0.143
			RB1#25	21.72	0.149
			RB1#49	21.4	0.138
			RB25#0	21	0.126
			RB25#13	21.02	0.126
			RB25#25	20.95	0.124
			RB50#0	20.93	0.124
	HCH	QPSK	RB1#0	22.82	0.191
			RB1#25	22.84	0.192
			RB1#49	23.38	0.218
			RB25#0	21.89	0.155
			RB25#13	21.94	0.156
			RB25#25	22.03	0.160
			RB50#0	21.98	0.158
		16-QAM	RB1#0	21.69	0.148
			RB1#25	21.86	0.153
			RB1#49	22.17	0.165
			RB25#0	21.01	0.126
			RB25#13	21.13	0.130
			RB25#25	21.04	0.127
			RB50#0	20.93	0.124
15 MHz	LCH	QPSK	RB1#0	23.68	0.233
			RB1#38	23.11	0.205
			RB1#74	23.12	0.205
			RB36#0	22.26	0.168
			RB36#19	22.22	0.167
			RB36#39	22.23	0.167
			RB75#0	22.14	0.164
		16-QAM	RB1#0	22.64	0.184
			RB1#38	22.28	0.169
			RB1#74	21.89	0.155
			RB36#0	21.16	0.131
			RB36#19	21.22	0.132
			RB36#39	21.14	0.130
			RB75#0	21.2	0.132

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band25					
	MCH	QPSK	RB1#0	23.08	0.203
			RB1#38	23.02	0.200
			RB1#74	22.87	0.194
			RB36#0	22.09	0.162
			RB36#19	22.07	0.161
			RB36#39	21.96	0.157
			RB75#0	21.99	0.158
		16-QAM	RB1#0	22.06	0.161
			RB1#38	21.81	0.152
			RB1#74	21.61	0.145
			RB36#0	20.98	0.125
			RB36#19	21.03	0.127
			RB36#39	20.89	0.123
			RB75#0	20.84	0.121
	HCH	QPSK	RB1#0	22.67	0.185
			RB1#38	22.63	0.183
			RB1#74	22.89	0.195
			RB36#0	21.91	0.155
			RB36#19	21.86	0.153
			RB36#39	21.88	0.154
			RB75#0	21.85	0.153
		16-QAM	RB1#0	22.45	0.176
			RB1#38	22.41	0.174
			RB1#74	22.97	0.198
			RB36#0	20.89	0.123
			RB36#19	20.77	0.119
			RB36#39	20.81	0.121
			RB75#0	20.68	0.117
20 MHz	LCH	QPSK	RB1#0	23.13	0.206
			RB1#50	23.01	0.200
			RB1#99	23.17	0.207
			RB50#0	22.2	0.166
			RB50#25	22.15	0.164
			RB50#50	22.08	0.161
			RB100#0	22.21	0.166
		16-QAM	RB1#0	22.59	0.182
			RB1#50	22.38	0.173
			RB1#99	22.15	0.164
			RB50#0	21.13	0.130

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band25					
	MCH		RB50#25	21.09	0.129
			RB50#50	21	0.126
			RB100#0	21.13	0.130
		QPSK	RB1#0	23.14	0.206
			RB1#50	23.37	0.217
			RB1#99	23.24	0.211
			RB50#0	22.12	0.163
			RB50#25	22.03	0.160
			RB50#50	22	0.158
			RB100#0	22.04	0.160
		16-QAM	RB1#0	22.41	0.174
			RB1#50	21.72	0.149
			RB1#99	21.4	0.138
			RB50#0	21.14	0.130
			RB50#25	20.97	0.125
			RB50#50	21.02	0.126
			RB100#0	21.05	0.127
	HCH	QPSK	RB1#0	22.74	0.188
			RB1#50	22.89	0.195
			RB1#99	23.26	0.212
			RB50#0	21.92	0.156
			RB50#25	21.82	0.152
			RB50#50	21.94	0.156
			RB100#0	21.85	0.153
		16-QAM	RB1#0	21.36	0.137
			RB1#50	21.39	0.138
			RB1#99	21.77	0.150
			RB50#0	20.79	0.120
			RB50#25	20.72	0.118
			RB50#50	20.93	0.124
			RB100#0	20.78	0.120

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	22.58	0.181
			RB1#13	22.61	0.182
			RB1#24	22.58	0.181
			RB12#0	21.74	0.149
			RB12#6	21.75	0.150
			RB12#13	21.77	0.150
			RB25#0	21.74	0.149
		16-QAM	RB1#0	21.16	0.131
			RB1#13	21.16	0.131
			RB1#24	21.18	0.131
			RB12#0	20.6	0.115
			RB12#6	20.93	0.124
			RB12#13	20.57	0.114
			RB25#0	20.91	0.123
	MCH	QPSK	RB1#0	22.7	0.186
			RB1#13	22.87	0.194
			RB1#24	22.5	0.178
			RB12#0	21.92	0.156
			RB12#6	21.94	0.156
			RB12#13	21.81	0.152
			RB25#0	21.92	0.156
		16-QAM	RB1#0	21.52	0.142
			RB1#13	21.37	0.137
			RB1#24	21.25	0.133
			RB12#0	20.74	0.119
			RB12#6	21.02	0.126
			RB12#13	20.97	0.125
			RB25#0	20.85	0.122
	HCH	QPSK	RB1#0	22.45	0.176
			RB1#13	23.01	0.200
			RB1#24	22.95	0.197
			RB12#0	21.86	0.153
			RB12#6	21.82	0.152
			RB12#13	21.84	0.153
			RB25#0	21.86	0.153
		16-QAM	RB1#0	21.55	0.143
			RB1#13	21.62	0.145
			RB1#24	21.51	0.142
			RB12#0	20.94	0.124

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band41					
10 MHz			RB12#6	20.95	0.124
			RB12#13	20.82	0.121
			RB25#0	20.7	0.117
	LCH	QPSK	RB1#0	22.68	0.185
			RB1#25	22.61	0.182
			RB1#49	22.55	0.180
			RB25#0	21.8	0.151
			RB25#13	21.78	0.151
			RB25#25	21.83	0.152
			RB50#0	21.74	0.149
		16-QAM	RB1#0	21.95	0.157
			RB1#25	22.28	0.169
			RB1#49	21.85	0.153
			RB25#0	20.78	0.120
			RB25#13	20.84	0.121
			RB25#25	20.77	0.119
			RB50#0	20.72	0.118
	MCH	QPSK	RB1#0	23.01	0.200
			RB1#25	22.94	0.197
			RB1#49	22.87	0.194
			RB25#0	21.94	0.156
			RB25#13	22.03	0.160
			RB25#25	22.06	0.161
			RB50#0	21.93	0.156
		16-QAM	RB1#0	21.15	0.130
			RB1#25	21.22	0.132
			RB1#49	21.03	0.127
			RB25#0	20.91	0.123
			RB25#13	20.83	0.121
			RB25#25	20.74	0.119
			RB50#0	20.85	0.122
	HCH	QPSK	RB1#0	22.33	0.171
			RB1#25	22.71	0.187
			RB1#49	22.79	0.190
			RB25#0	21.8	0.151
			RB25#13	21.86	0.153
			RB25#25	21.8	0.151
			RB50#0	21.86	0.153
		16-QAM	RB1#0	21.74	0.149

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band41					
			RB1#25	22.32	0.171
			RB1#49	22.21	0.166
			RB25#0	20.75	0.119
			RB25#13	20.79	0.120
			RB25#25	20.8	0.120
			RB50#0	20.87	0.122
15 MHz	LCH	QPSK	RB1#0	22.66	0.185
			RB1#38	22.8	0.191
			RB1#74	22.82	0.191
			RB36#0	21.83	0.152
			RB36#19	21.84	0.153
			RB36#39	21.82	0.152
			RB75#0	21.78	0.151
		16-QAM	RB1#0	22.21	0.166
			RB1#38	21.98	0.158
			RB1#74	22.19	0.166
			RB36#0	20.62	0.115
			RB36#19	20.56	0.114
			RB36#39	20.58	0.114
			RB75#0	20.95	0.124
	MCH	QPSK	RB1#0	23.07	0.203
			RB1#38	23.01	0.200
			RB1#74	23.03	0.201
			RB36#0	22.03	0.160
			RB36#19	22.03	0.160
			RB36#39	21.96	0.157
			RB75#0	22	0.158
		16-QAM	RB1#0	21.44	0.139
			RB1#38	21.17	0.131
			RB1#74	21.33	0.136
			RB36#0	21.13	0.130
			RB36#19	20.85	0.122
			RB36#39	20.92	0.124
			RB75#0	21.13	0.130
	HCH	QPSK	RB1#0	22.73	0.187
			RB1#38	22.67	0.185
			RB1#74	22.54	0.179
			RB36#0	21.86	0.153
			RB36#19	21.87	0.154

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band41					
			RB36#39	21.9	0.155
			RB75#0	21.85	0.153
		16-QAM	RB1#0	21.74	0.149
			RB1#38	21.69	0.148
			RB1#74	21.81	0.152
			RB36#0	20.7	0.117
			RB36#19	20.81	0.121
			RB36#39	20.71	0.118
			RB75#0	20.86	0.122
20 MHz	LCH	QPSK	RB1#0	22.49	0.177
			RB1#50	22.53	0.179
			RB1#99	22.48	0.177
			RB50#0	21.83	0.152
			RB50#25	21.81	0.152
			RB50#50	21.93	0.156
			RB100#0	21.82	0.152
		16-QAM	RB1#0	21.25	0.133
			RB1#50	21.51	0.142
			RB1#99	21.31	0.135
			RB50#0	20.86	0.122
			RB50#25	20.79	0.120
			RB50#50	20.88	0.122
			RB100#0	20.83	0.121
	MCH	QPSK	RB1#0	22.8	0.191
			RB1#50	23	0.200
			RB1#99	22.86	0.193
			RB50#0	22.05	0.160
			RB50#25	21.99	0.158
			RB50#50	21.91	0.155
			RB100#0	21.96	0.157
		16-QAM	RB1#0	21.15	0.130
			RB1#50	20.97	0.125
			RB1#99	20.92	0.124
			RB50#0	20.98	0.125
			RB50#25	20.97	0.125
			RB50#50	20.96	0.125
			RB100#0	20.87	0.122
	HCH	QPSK	RB1#0	23.09	0.204
			RB1#50	22.83	0.192

Test BW	Test Channel	Test Model	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Conducted Output Average Power (W)
LTE Band41					
			RB1#99	22.59	0.182
			RB50#0	21.79	0.151
			RB50#25	21.83	0.152
			RB50#50	21.78	0.151
			RB100#0	21.82	0.152
		16-QAM	RB1#0	22.07	0.161
			RB1#50	22.07	0.161
			RB1#99	21.91	0.155
			RB50#0	20.91	0.123
			RB50#25	20.77	0.119
			RB50#50	20.82	0.121
			RB100#0	20.84	0.121

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	15.05	9.83	24.88	0.308	7	Pass
	MCH	5	15.16	9.83	24.99	0.316		Pass
	HCH	5	14.88	9.83	24.71	0.296		Pass
GPRS 850	LCH	5	15.05	9.83	24.88	0.308		Pass
	MCH	5	15.16	9.83	24.99	0.316		Pass
	HCH	5	14.87	9.83	24.70	0.295		Pass
EGPRS 850	LCH	8	15.05	9.83	24.88	0.308		Pass
	MCH	8	15.11	9.83	24.94	0.312		Pass
	HCH	8	14.79	9.83	24.62	0.290		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	11.31	17.8	29.11	0.815	2	Pass
	MCH	0	10.99	17.8	28.79	0.757		Pass
	HCH	0	11	17.8	28.80	0.759		Pass
GPRS 1900	LCH	0	11.36	17.8	29.16	0.824		Pass
	MCH	0	10.93	17.8	28.73	0.746		Pass
	HCH	0	10.88	17.8	28.68	0.738		Pass
EGPRS 1900	LCH	2	11.25	17.8	29.05	0.804		Pass
	MCH	2	10.86	17.8	28.66	0.735		Pass
	HCH	2	10.85	17.8	28.65	0.733		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;

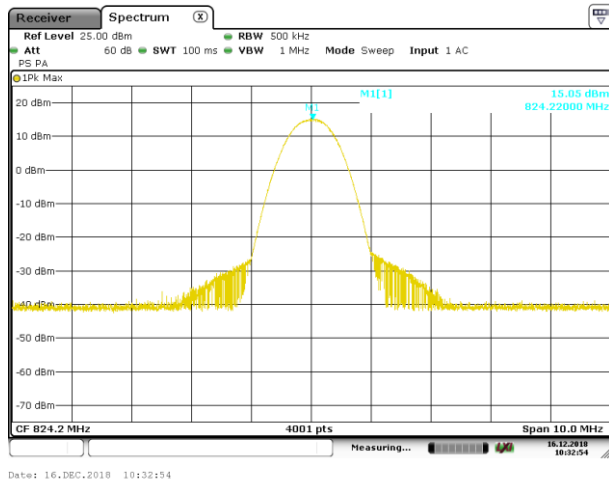
Correction Factor = total correction factor including cable loss, in dB;

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).

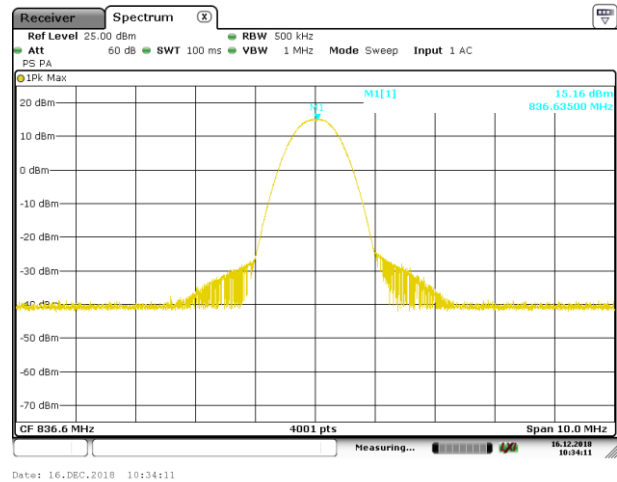
GSM Mode Test Plots

GSM850

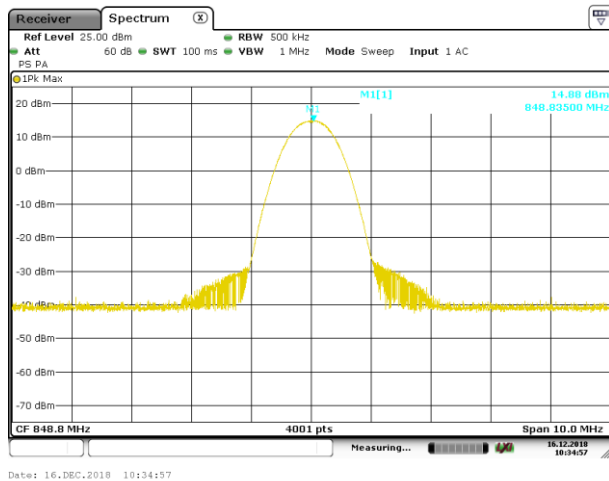
GSM 850 LOW CHANNEL



GSM 850 MIDDLE CHANNEL

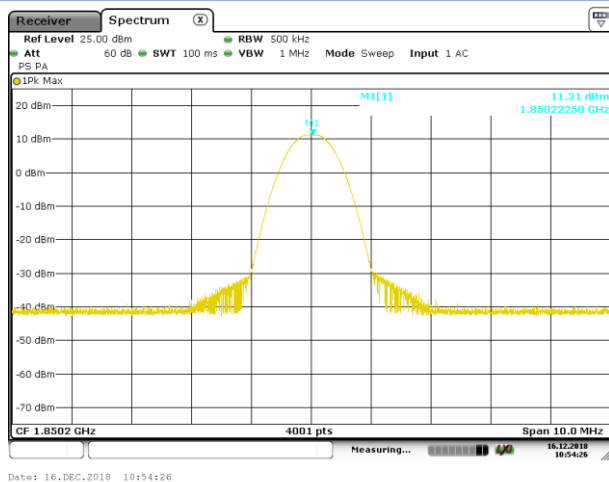


GSM 850 HIGH CHANNEL

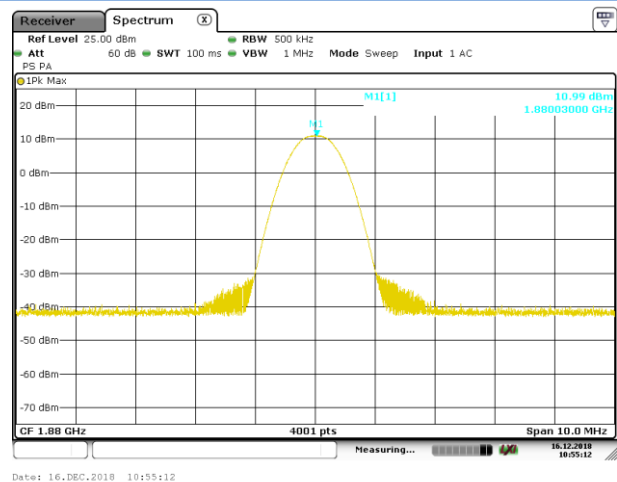


GSM1900

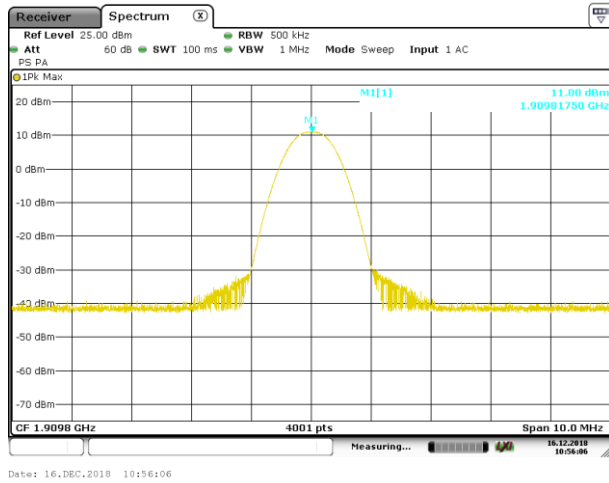
GSM 1900 LOW CHANNEL



GSM 1900 MIDDLE CHANNEL

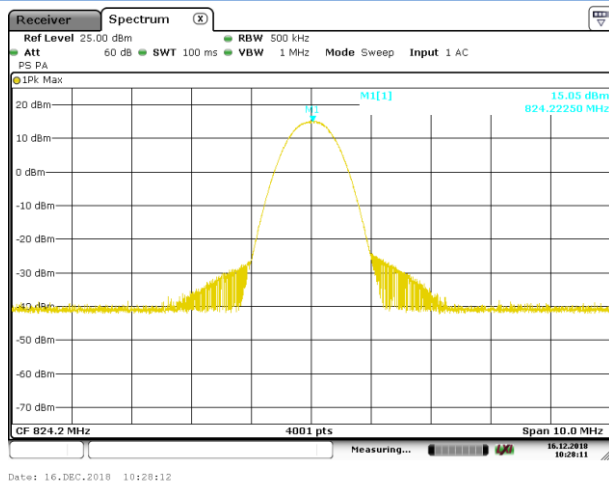


GSM 1900 HIGH CHANNEL

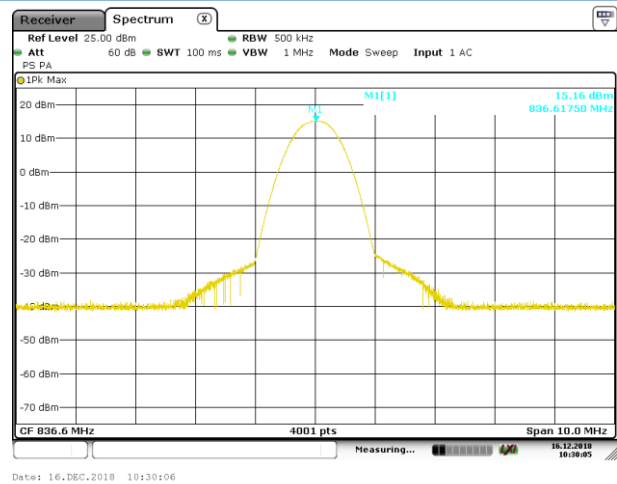


GPRS850

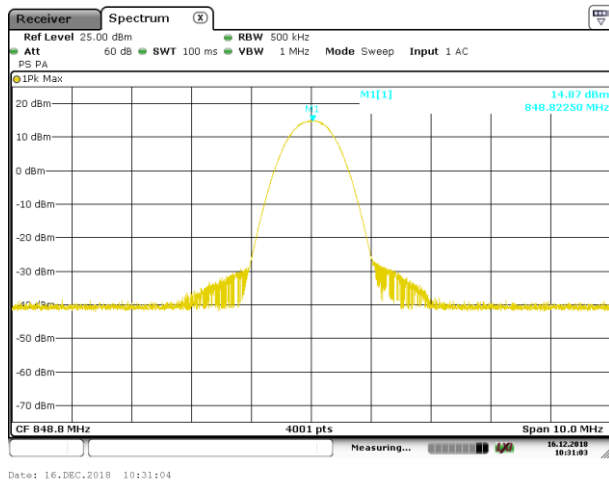
GPRS 850 LOW CHANNEL



GPRS 850 MIDDLE CHANNEL

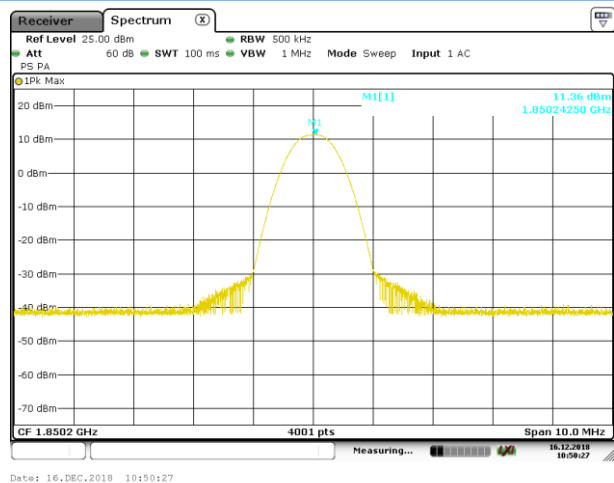


GPRS 850 HIGH CHANNEL

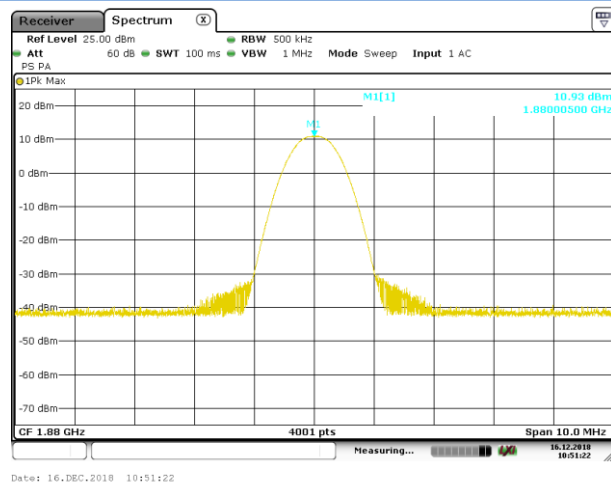


GPRS1900

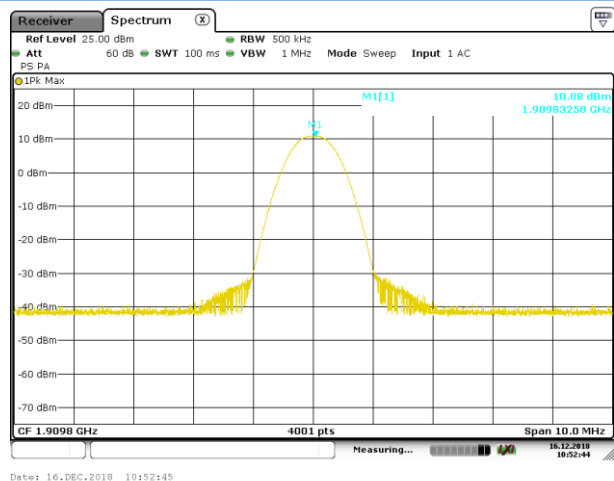
GPRS 1900 LOW CHANNEL



GPRS 1900 MIDDLE CHANNEL

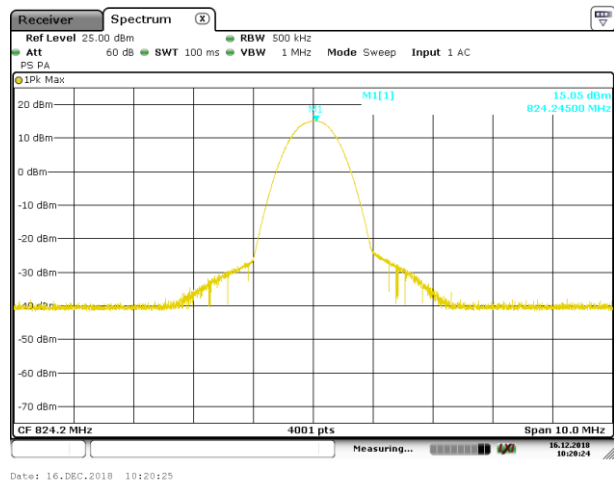


GPRS 1900 HIGH CHANNEL

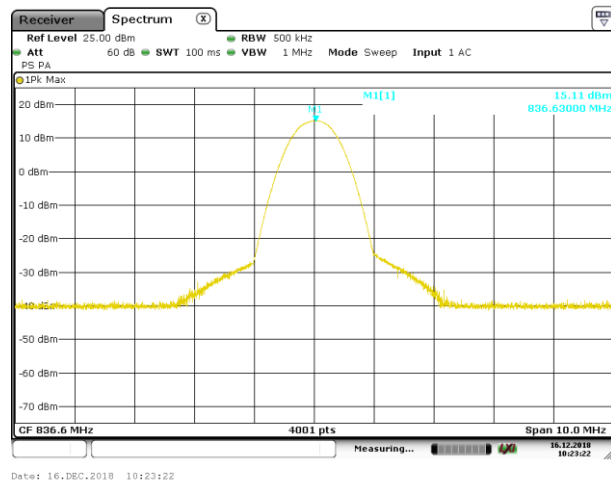


EGPRS850

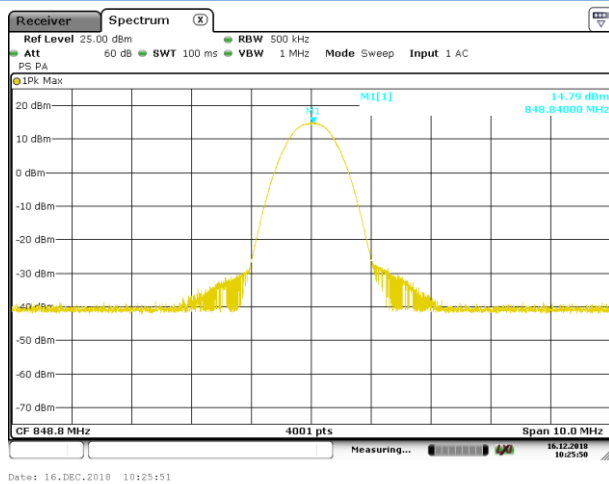
EGPRS 850 LOW CHANNEL



EGPRS 850 MIDDLE CHANNEL

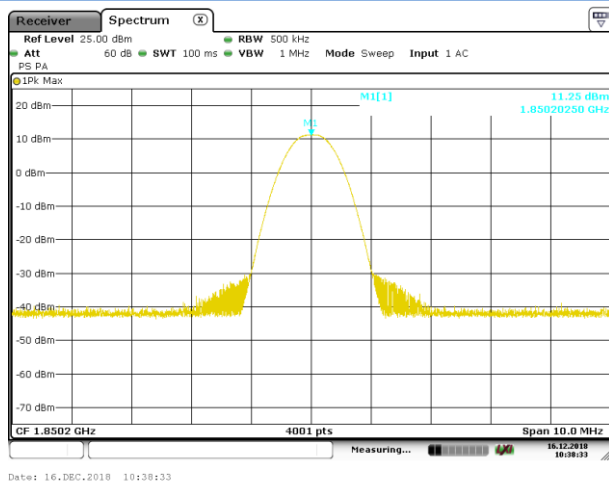


EGPRS 850 HIGH CHANNEL

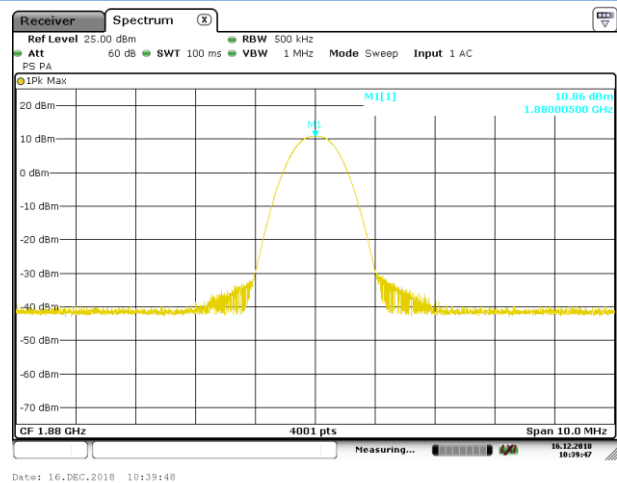


EGPRS1900

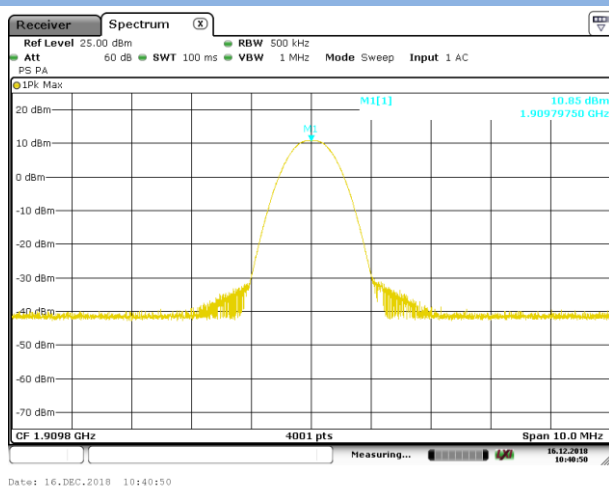
EGPRS 1900 LOW CHANNEL



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	0.88	17.8	18.68	0.074	2	Pass
	MCH	0.75	17.8	18.55	0.072		Pass
	HCH	0.08	17.8	17.88	0.061		Pass
HSDPA B2	LCH	0.97	17.8	18.77	0.075		Pass
	MCH	0.55	17.8	18.35	0.068		Pass
	HCH	0.53	17.8	18.33	0.068		Pass
HSUPA B2	LCH	0.54	17.8	18.34	0.068		Pass
	MCH	0.81	17.8	18.61	0.073		Pass
	HCH	0.57	17.8	18.37	0.069		Pass

Test Band	Channel	Measured ERP				Limit (W)	Verdict
		SA Read Value (dBm)	Correction Factor(dB)	ERP (dBm)	ERP (W)		
WCDMA B5	LCH	9.32	9.83	19.15	0.082	7	Pass
	MCH	9.65	9.83	19.48	0.089		Pass
	HCH	8.66	9.83	18.49	0.071		Pass
HSDPA B5	LCH	7.95	9.83	17.78	0.060		Pass
	MCH	8.33	9.83	18.16	0.065		Pass
	HCH	7.56	9.83	17.39	0.055		Pass
HSUPA B5	LCH	7.25	9.83	17.08	0.051		Pass
	MCH	7.26	9.83	17.09	0.051		Pass
	HCH	7.25	9.83	17.08	0.051		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: $ERP/EIRP = SA\ Read\ Value + Correction\ Factor$

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;

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	1.46	17.8	19.26	0.084	2.00	Pass
			RB6#0	0.43	17.8	18.23	0.067	2.00	Pass
		16-QAM	RB1#0	1.00	17.8	18.80	0.076	2.00	Pass
			RB6#0	0.31	17.8	18.11	0.065	2.00	Pass
	MCH	QPSK	RB1#0	1.01	17.8	18.81	0.076	2.00	Pass
			RB6#0	0.48	17.8	18.28	0.067	2.00	Pass
		16-QAM	RB1#0	0.58	17.8	18.38	0.069	2.00	Pass
			RB6#0	-0.07	17.8	17.73	0.059	2.00	Pass
	HCH	QPSK	RB1#0	1.06	17.8	18.86	0.077	2.00	Pass
			RB6#0	0.79	17.8	18.59	0.072	2.00	Pass
		16-QAM	RB1#0	0.91	17.8	18.71	0.074	2.00	Pass
			RB6#0	0.83	17.8	18.63	0.073	2.00	Pass
3 MHz	LCH	QPSK	RB1#0	1.53	17.8	19.33	0.086	2.00	Pass
			RB15#0	0.62	17.8	18.42	0.070	2.00	Pass
		16-QAM	RB1#0	1.26	17.8	19.06	0.081	2.00	Pass
			RB15#0	0.37	17.8	18.17	0.066	2.00	Pass
	MCH	QPSK	RB1#0	1.22	17.8	19.02	0.080	2.00	Pass
			RB15#0	0.45	17.8	18.25	0.067	2.00	Pass
		16-QAM	RB1#0	0.90	17.8	18.70	0.074	2.00	Pass
			RB15#0	0.12	17.8	17.92	0.062	2.00	Pass
	HCH	QPSK	RB1#0	1.47	17.8	19.27	0.085	2.00	Pass
			RB15#0	0.46	17.8	18.26	0.067	2.00	Pass
		16-QAM	RB1#0	0.80	17.8	18.60	0.072	2.00	Pass
			RB15#0	0.63	17.8	18.43	0.070	2.00	Pass
5 MHz	LCH	QPSK	RB1#0	1.41	17.8	19.21	0.083	2.00	Pass
			RB25#0	0.62	17.8	18.42	0.070	2.00	Pass
		16-QAM	RB1#0	1.06	17.8	18.86	0.077	2.00	Pass
			RB25#0	0.36	17.8	18.16	0.065	2.00	Pass
	MCH	QPSK	RB1#0	1.51	17.8	19.31	0.085	2.00	Pass
			RB25#0	0.59	17.8	18.39	0.069	2.00	Pass
		16-QAM	RB1#0	0.77	17.8	18.57	0.072	2.00	Pass
			RB25#0	-0.10	17.8	17.70	0.059	2.00	Pass
	HCH	QPSK	RB1#0	1.42	17.8	19.22	0.084	2.00	Pass
			RB25#0	0.54	17.8	18.34	0.068	2.00	Pass
		16-QAM	RB1#0	1.52	17.8	19.32	0.086	2.00	Pass
			RB25#0	0.74	17.8	18.54	0.071	2.00	Pass
10 MHz	LCH	QPSK	RB1#0	1.50	17.8	19.30	0.085	2.00	Pass
			RB50#0	0.62	17.8	18.42	0.070	2.00	Pass
		16-QAM	RB1#0	1.06	17.8	18.86	0.077	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									
	MCH	QPSK	RB50#0	0.56	17.8	18.36	0.069	2.00	Pass
			RB1#0	1.51	17.8	19.31	0.085	2.00	Pass
		16-QAM	RB50#0	0.49	17.8	18.29	0.067	2.00	Pass
			RB1#0	0.35	17.8	18.15	0.065	2.00	Pass
		HCH	RB50#0	0.12	17.8	17.92	0.062	2.00	Pass
			RB1#0	1.20	17.8	19.00	0.079	2.00	Pass
			RB50#0	0.65	17.8	18.45	0.070	2.00	Pass
			RB1#0	1.29	17.8	19.09	0.081	2.00	Pass
	HCH	16-QAM	RB50#0	1.05	17.8	18.85	0.077	2.00	Pass
			RB1#0	1.05	17.8	18.85	0.077	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	1.19	17.8	18.99	0.079	2.00	Pass
			RB75#0	0.67	17.8	18.47	0.070	2.00	Pass
		16-QAM	RB1#0	1.13	17.8	18.93	0.078	2.00	Pass
			RB75#0	0.32	17.8	18.12	0.065	2.00	Pass
	MCH	QPSK	RB1#0	1.63	17.8	19.43	0.088	2.00	Pass
			RB75#0	0.77	17.8	18.57	0.072	2.00	Pass
		16-QAM	RB1#0	0.44	17.8	18.24	0.067	2.00	Pass
			RB75#0	-0.04	17.8	17.76	0.060	2.00	Pass
	HCH	QPSK	RB1#0	0.77	17.8	18.57	0.072	2.00	Pass
			RB75#0	0.76	17.8	18.56	0.072	2.00	Pass
		16-QAM	RB1#0	1.47	17.8	19.27	0.085	2.00	Pass
			RB75#0	0.86	17.8	18.66	0.073	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	1.38	17.8	19.18	0.083	2.00	Pass
			RB100#0	0.32	17.8	18.12	0.065	2.00	Pass
		16-QAM	RB1#0	0.69	17.8	18.49	0.071	2.00	Pass
			RB100#0	-0.03	17.8	17.77	0.060	2.00	Pass
	MCH	QPSK	RB1#0	1.08	17.8	18.88	0.077	2.00	Pass
			RB100#0	0.81	17.8	18.61	0.073	2.00	Pass
		16-QAM	RB1#0	0.68	17.8	18.48	0.070	2.00	Pass
			RB100#0	-0.10	17.8	17.70	0.059	2.00	Pass
	HCH	QPSK	RB1#0	1.45	17.8	19.25	0.084	2.00	Pass
			RB100#0	0.88	17.8	18.68	0.074	2.00	Pass
		16-QAM	RB1#0	1.23	17.8	19.03	0.080	2.00	Pass
			RB100#0	0.53	17.8	18.33	0.068	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	5.52	14.4	19.92	0.098	1.00	Pass
			RB6#0	4.78	14.4	19.18	0.083	1.00	Pass
		16-QAM	RB1#0	5.43	14.4	19.83	0.096	1.00	Pass
			RB6#0	4.62	14.4	19.02	0.080	1.00	Pass
	MCH	QPSK	RB1#0	5.39	14.4	19.79	0.095	1.00	Pass
			RB6#0	4.90	14.4	19.30	0.085	1.00	Pass
		16-QAM	RB1#0	5.28	14.4	19.68	0.093	1.00	Pass
			RB6#0	4.38	14.4	18.78	0.076	1.00	Pass
	HCH	QPSK	RB1#0	5.55	14.4	19.95	0.099	1.00	Pass
			RB6#0	4.41	14.4	18.81	0.076	1.00	Pass
		16-QAM	RB1#0	5.48	14.4	19.88	0.097	1.00	Pass
			RB6#0	4.53	14.4	18.93	0.078	1.00	Pass
3 MHz	LCH	QPSK	RB1#0	5.88	14.4	20.28	0.107	1.00	Pass
			RB15#0	4.94	14.4	19.34	0.086	1.00	Pass
		16-QAM	RB1#0	5.52	14.4	19.92	0.098	1.00	Pass
			RB15#0	4.86	14.4	19.26	0.084	1.00	Pass
	MCH	QPSK	RB1#0	5.62	14.4	20.02	0.100	1.00	Pass
			RB15#0	5.23	14.4	19.63	0.092	1.00	Pass
		16-QAM	RB1#0	5.11	14.4	19.51	0.089	1.00	Pass
			RB15#0	4.34	14.4	18.74	0.075	1.00	Pass
	HCH	QPSK	RB1#0	5.87	14.4	20.27	0.106	1.00	Pass
			RB15#0	4.39	14.4	18.79	0.076	1.00	Pass
		16-QAM	RB1#0	5.30	14.4	19.70	0.093	1.00	Pass
			RB15#0	4.52	14.4	18.92	0.078	1.00	Pass
5 MHz	LCH	QPSK	RB1#0	6.10	14.4	20.50	0.112	1.00	Pass
			RB25#0	5.12	14.4	19.52	0.090	1.00	Pass
		16-QAM	RB1#0	5.95	14.4	20.35	0.108	1.00	Pass
			RB25#0	4.32	14.4	18.72	0.074	1.00	Pass
	MCH	QPSK	RB1#0	5.42	14.4	19.82	0.096	1.00	Pass
			RB25#0	5.02	14.4	19.42	0.087	1.00	Pass
		16-QAM	RB1#0	5.69	14.4	20.09	0.102	1.00	Pass
			RB25#0	4.55	14.4	18.95	0.079	1.00	Pass
	HCH	QPSK	RB1#0	5.66	14.4	20.06	0.101	1.00	Pass
			RB25#0	4.17	14.4	18.57	0.072	1.00	Pass
		16-QAM	RB1#0	5.69	14.4	20.09	0.102	1.00	Pass
			RB25#0	4.96	14.4	19.36	0.086	1.00	Pass
10 MHz	LCH	QPSK	RB1#0	5.77	14.4	20.17	0.104	1.00	Pass
			RB50#0	5.11	14.4	19.51	0.089	1.00	Pass
		16-QAM	RB1#0	5.78	14.4	20.18	0.104	1.00	Pass
			RB50#0	4.69	14.4	19.09	0.081	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	6.05	14.4	20.45	0.111	1.00	Pass
			RB50#0	5.03	14.4	19.43	0.088	1.00	Pass
		16-QAM	RB1#0	5.35	14.4	19.75	0.094	1.00	Pass
			RB50#0	4.59	14.4	18.99	0.079	1.00	Pass
	HCH	QPSK	RB1#0	5.47	14.4	19.87	0.097	1.00	Pass
			RB50#0	4.66	14.4	19.06	0.081	1.00	Pass
		16-QAM	RB1#0	6.10	14.4	20.50	0.112	1.00	Pass
			RB50#0	4.54	14.4	18.94	0.078	1.00	Pass
15 MHz	LCH	QPSK	RB1#0	5.55	14.4	19.95	0.099	1.00	Pass
			RB75#0	5.41	14.4	19.81	0.096	1.00	Pass
		16-QAM	RB1#0	5.28	14.4	19.68	0.093	1.00	Pass
			RB75#0	4.72	14.4	19.12	0.082	1.00	Pass
	MCH	QPSK	RB1#0	5.71	14.4	20.11	0.103	1.00	Pass
			RB75#0	5.05	14.4	19.45	0.088	1.00	Pass
		16-QAM	RB1#0	5.19	14.4	19.59	0.091	1.00	Pass
			RB75#0	4.71	14.4	19.11	0.081	1.00	Pass
	HCH	QPSK	RB1#0	5.79	14.4	20.19	0.104	1.00	Pass
			RB75#0	4.69	14.4	19.09	0.081	1.00	Pass
		16-QAM	RB1#0	5.58	14.4	19.98	0.100	1.00	Pass
			RB75#0	4.52	14.4	18.92	0.078	1.00	Pass
20 MHz	LCH	QPSK	RB1#0	5.92	14.4	20.32	0.108	1.00	Pass
			RB100#0	4.85	14.4	19.25	0.084	1.00	Pass
		16-QAM	RB1#0	5.71	14.4	20.11	0.103	1.00	Pass
			RB100#0	4.82	14.4	19.22	0.084	1.00	Pass
	MCH	QPSK	RB1#0	5.27	14.4	19.67	0.093	1.00	Pass
			RB100#0	5.04	14.4	19.44	0.088	1.00	Pass
		16-QAM	RB1#0	5.53	14.4	19.93	0.098	1.00	Pass
			RB100#0	4.42	14.4	18.82	0.076	1.00	Pass
	HCH	QPSK	RB1#0	5.72	14.4	20.12	0.103	1.00	Pass
			RB100#0	4.61	14.4	19.01	0.080	1.00	Pass
		16-QAM	RB1#0	5.74	14.4	20.14	0.103	1.00	Pass
			RB100#0	4.76	14.4	19.16	0.082	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	8.61	9.83	18.44	0.070	7.00	Pass
			RB6#0	7.35	9.83	17.18	0.052	7.00	Pass
		16-QAM	RB1#0	8.13	9.83	17.96	0.063	7.00	Pass
			RB6#0	7.60	9.83	17.43	0.055	7.00	Pass
	MCH	QPSK	RB1#0	7.87	9.83	17.70	0.059	7.00	Pass
			RB6#0	7.41	9.83	17.24	0.053	7.00	Pass
		16-QAM	RB1#0	7.57	9.83	17.40	0.055	7.00	Pass
			RB6#0	8.29	9.83	18.12	0.065	7.00	Pass
	HCH	QPSK	RB1#0	8.57	9.83	18.40	0.069	7.00	Pass
			RB6#0	7.75	9.83	17.58	0.057	7.00	Pass
		16-QAM	RB1#0	8.10	9.83	17.93	0.062	7.00	Pass
			RB6#0	7.80	9.83	17.63	0.058	7.00	Pass
3 MHz	LCH	QPSK	RB1#0	8.32	9.83	18.15	0.065	7.00	Pass
			RB15#0	7.48	9.83	17.31	0.054	7.00	Pass
		16-QAM	RB1#0	8.10	9.83	17.93	0.062	7.00	Pass
			RB15#0	7.86	9.83	17.69	0.059	7.00	Pass
	MCH	QPSK	RB1#0	8.55	9.83	18.38	0.069	7.00	Pass
			RB15#0	7.31	9.83	17.14	0.052	7.00	Pass
		16-QAM	RB1#0	7.47	9.83	17.30	0.054	7.00	Pass
			RB15#0	8.24	9.83	18.07	0.064	7.00	Pass
	HCH	QPSK	RB1#0	8.09	9.83	17.92	0.062	7.00	Pass
			RB15#0	7.49	9.83	17.32	0.054	7.00	Pass
		16-QAM	RB1#0	8.23	9.83	18.06	0.064	7.00	Pass
			RB15#0	7.75	9.83	17.58	0.057	7.00	Pass
5 MHz	LCH	QPSK	RB1#0	8.15	9.83	17.98	0.063	7.00	Pass
			RB25#0	7.19	9.83	17.02	0.050	7.00	Pass
		16-QAM	RB1#0	7.80	9.83	17.63	0.058	7.00	Pass
			RB25#0	7.56	9.83	17.39	0.055	7.00	Pass
	MCH	QPSK	RB1#0	7.82	9.83	17.65	0.058	7.00	Pass
			RB25#0	7.47	9.83	17.30	0.054	7.00	Pass
		16-QAM	RB1#0	7.78	9.83	17.61	0.058	7.00	Pass
			RB25#0	7.60	9.83	17.43	0.055	7.00	Pass
	HCH	QPSK	RB1#0	8.14	9.83	17.97	0.063	7.00	Pass
			RB25#0	7.83	9.83	17.66	0.058	7.00	Pass
		16-QAM	RB1#0	8.38	9.83	18.21	0.066	7.00	Pass
			RB25#0	7.81	9.83	17.64	0.058	7.00	Pass
10 MHz	LCH	QPSK	RB1#0	8.12	9.83	17.95	0.062	7.00	Pass
			RB50#0	7.76	9.83	17.59	0.057	7.00	Pass
		16-QAM	RB1#0	8.16	9.83	17.99	0.063	7.00	Pass
			RB50#0	7.75	9.83	17.58	0.057	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	RB1#0	8.71	9.83	18.54	0.071	7.00	Pass
			RB50#0	7.76	9.83	17.59	0.057	7.00	Pass
		16-QAM	RB1#0	7.60	9.83	17.43	0.055	7.00	Pass
			RB50#0	8.15	9.83	17.98	0.063	7.00	Pass
	HCH	QPSK	RB1#0	8.07	9.83	17.90	0.062	7.00	Pass
			RB50#0	7.62	9.83	17.45	0.056	7.00	Pass
		16-QAM	RB1#0	7.96	9.83	17.79	0.060	7.00	Pass
			RB50#0	7.84	9.83	17.67	0.058	7.00	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									
5 MHz	LCH	QPSK	RB1#0	1.65	19.5	21.15	0.130	2.00	Pass
			RB25#0	0.21	19.5	19.71	0.094	2.00	Pass
		16-QAM	RB1#0	1.08	19.5	20.58	0.114	2.00	Pass
			RB25#0	0.27	19.5	19.77	0.095	2.00	Pass
	MCH	QPSK	RB1#0	1.26	19.5	20.76	0.119	2.00	Pass
			RB25#0	0.48	19.5	19.98	0.100	2.00	Pass
		16-QAM	RB1#0	0.62	19.5	20.12	0.103	2.00	Pass
			RB25#0	-0.20	19.5	19.30	0.085	2.00	Pass
	HCH	QPSK	RB1#0	0.93	19.5	20.43	0.110	2.00	Pass
			RB25#0	0.73	19.5	20.23	0.105	2.00	Pass
		16-QAM	RB1#0	1.50	19.5	21.00	0.126	2.00	Pass
			RB25#0	0.80	19.5	20.30	0.107	2.00	Pass
10 MHz	LCH	QPSK	RB1#0	1.26	19.5	20.76	0.119	2.00	Pass
			RB50#0	0.28	19.5	19.78	0.095	2.00	Pass
		16-QAM	RB1#0	1.29	19.5	20.79	0.120	2.00	Pass
			RB50#0	0.65	19.5	20.15	0.104	2.00	Pass
	MCH	QPSK	RB1#0	0.84	19.5	20.34	0.108	2.00	Pass
			RB50#0	0.26	19.5	19.76	0.095	2.00	Pass
		16-QAM	RB1#0	0.46	19.5	19.96	0.099	2.00	Pass
			RB50#0	-0.37	19.5	19.13	0.082	2.00	Pass
	HCH	QPSK	RB1#0	1.27	19.5	20.77	0.119	2.00	Pass
			RB50#0	0.91	19.5	20.41	0.110	2.00	Pass
		16-QAM	RB1#0	1.23	19.5	20.73	0.118	2.00	Pass
			RB50#0	0.99	19.5	20.49	0.112	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	1.44	19.5	20.94	0.124	2.00	Pass
			RB75#0	0.63	19.5	20.13	0.103	2.00	Pass
		16-QAM	RB1#0	1.03	19.5	20.53	0.113	2.00	Pass
			RB75#0	0.58	19.5	20.08	0.102	2.00	Pass
	MCH	QPSK	RB1#0	1.43	19.5	20.93	0.124	2.00	Pass
			RB75#0	0.24	19.5	19.74	0.094	2.00	Pass
		16-QAM	RB1#0	0.46	19.5	19.96	0.099	2.00	Pass
			RB75#0	-0.19	19.5	19.31	0.085	2.00	Pass
	HCH	QPSK	RB1#0	1.37	19.5	20.87	0.122	2.00	Pass
			RB75#0	0.95	19.5	20.45	0.111	2.00	Pass
		16-QAM	RB1#0	1.39	19.5	20.89	0.123	2.00	Pass
			RB75#0	0.83	19.5	20.33	0.108	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	1.13	19.5	20.63	0.116	2.00	Pass
			RB100#0	0.85	19.5	20.35	0.108	2.00	Pass
		16-QAM	RB1#0	1.25	19.5	20.75	0.119	2.00	Pass
			RB100#0	0.14	19.5	19.64	0.092	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	RB1#0	1.24	19.5	20.74	0.119	2.00	Pass
			RB100#0	0.71	19.5	20.21	0.105	2.00	Pass
		16-QAM	RB1#0	0.15	19.5	19.65	0.092	2.00	Pass
			RB100#0	-0.08	19.5	19.42	0.087	2.00	Pass
	HCH	QPSK	RB1#0	1.29	19.5	20.79	0.120	2.00	Pass
			RB100#0	0.56	19.5	20.06	0.101	2.00	Pass
		16-QAM	RB1#0	1.04	19.5	20.54	0.113	2.00	Pass
			RB100#0	0.99	19.5	20.49	0.112	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 BAND12									
1.4 MHz	LCH	QPSK	RB1#0	8.49	8.1	16.59	0.046	3.00	Pass
			RB6#0	7.23	8.1	15.33	0.034	3.00	Pass
		16-QAM	RB1#0	7.91	8.1	16.01	0.040	3.00	Pass
			RB6#0	7.95	8.1	16.05	0.040	3.00	Pass
	MCH	QPSK	RB1#0	7.82	8.1	15.92	0.039	3.00	Pass
			RB6#0	7.45	8.1	15.55	0.036	3.00	Pass
		16-QAM	RB1#0	7.16	8.1	15.26	0.034	3.00	Pass
			RB6#0	8.12	8.1	16.22	0.042	3.00	Pass
	HCH	QPSK	RB1#0	8.43	8.1	16.53	0.045	3.00	Pass
			RB6#0	7.37	8.1	15.47	0.035	3.00	Pass
		16-QAM	RB1#0	8.59	8.1	16.69	0.047	3.00	Pass
			RB6#0	7.94	8.1	16.04	0.040	3.00	Pass
3 MHz	LCH	QPSK	RB1#0	8.53	8.1	16.63	0.046	3.00	Pass
			RB15#0	8.01	8.1	16.11	0.041	3.00	Pass
		16-QAM	RB1#0	8.29	8.1	16.39	0.044	3.00	Pass
			RB15#0	7.55	8.1	15.65	0.037	3.00	Pass
	MCH	QPSK	RB1#0	7.97	8.1	16.07	0.040	3.00	Pass
			RB15#0	7.42	8.1	15.52	0.036	3.00	Pass
		16-QAM	RB1#0	7.11	8.1	15.21	0.033	3.00	Pass
			RB15#0	8.51	8.1	16.61	0.046	3.00	Pass
	HCH	QPSK	RB1#0	8.11	8.1	16.21	0.042	3.00	Pass
			RB15#0	8.09	8.1	16.19	0.042	3.00	Pass
		16-QAM	RB1#0	7.88	8.1	15.98	0.040	3.00	Pass
			RB15#0	7.97	8.1	16.07	0.040	3.00	Pass
5 MHz	LCH	QPSK	RB1#0	8.24	8.1	16.34	0.043	3.00	Pass
			RB25#0	7.27	8.1	15.37	0.034	3.00	Pass
		16-QAM	RB1#0	7.82	8.1	15.92	0.039	3.00	Pass
			RB25#0	7.49	8.1	15.59	0.036	3.00	Pass
	MCH	QPSK	RB1#0	7.64	8.1	15.74	0.037	3.00	Pass
			RB25#0	7.57	8.1	15.67	0.037	3.00	Pass
		16-QAM	RB1#0	7.24	8.1	15.34	0.034	3.00	Pass
			RB25#0	7.65	8.1	15.75	0.038	3.00	Pass
	HCH	QPSK	RB1#0	7.74	8.1	15.84	0.038	3.00	Pass
			RB25#0	7.66	8.1	15.76	0.038	3.00	Pass
		16-QAM	RB1#0	8.38	8.1	16.48	0.044	3.00	Pass
			RB25#0	7.91	8.1	16.01	0.040	3.00	Pass
10 MHz	LCH	QPSK	RB1#0	8.4	8.1	16.50	0.045	3.00	Pass
			RB50#0	7.97	8.1	16.07	0.040	3.00	Pass
		16-QAM	RB1#0	8.45	8.1	16.55	0.045	3.00	Pass
			RB50#0	7.64	8.1	15.74	0.037	3.00	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 BAND12									
	MCH	QPSK	RB1#0	8.86	8.1	16.96	0.050	3.00	Pass
			RB50#0	7.42	8.1	15.52	0.036	3.00	Pass
		16-QAM	RB1#0	7.78	8.1	15.88	0.039	3.00	Pass
			RB50#0	7.66	8.1	15.76	0.038	3.00	Pass
	HCH	QPSK	RB1#0	7.89	8.1	15.99	0.040	3.00	Pass
			RB50#0	7.56	8.1	15.66	0.037	3.00	Pass
		16-QAM	RB1#0	7.55	8.1	15.65	0.037	3.00	Pass
			RB50#0	6.83	8.1	14.93	0.031	3.00	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 BAND13									
5 MHz	LCH	QPSK	RB1#0	9.9	8.1	18.00	0.063	3.00	Pass
			RB25#0	9.6	8.1	17.70	0.059	3.00	Pass
		16-QAM	RB1#0	9.09	8.1	17.19	0.052	3.00	Pass
			RB25#0	8.13	8.1	16.23	0.042	3.00	Pass
	MCH	QPSK	RB1#0	9.84	8.1	17.94	0.062	3.00	Pass
			RB25#0	8.98	8.1	17.08	0.051	3.00	Pass
		16-QAM	RB1#0	7.75	8.1	15.85	0.038	3.00	Pass
			RB25#0	8.61	8.1	16.71	0.047	3.00	Pass
	HCH	QPSK	RB1#0	9.96	8.1	18.06	0.064	3.00	Pass
			RB25#0	9.5	8.1	17.60	0.058	3.00	Pass
		16-QAM	RB1#0	8.62	8.1	16.72	0.047	3.00	Pass
			RB25#0	8.41	8.1	16.51	0.045	3.00	Pass
10 MHz	MCH	QPSK	RB1#0	10.53	8.1	18.63	0.073	3.00	Pass
			RB50#0	9.03	8.1	17.13	0.052	3.00	Pass
		16-QAM	RB1#0	9.2	8.1	17.30	0.054	3.00	Pass
			RB50#0	8.49	8.1	16.59	0.046	3.00	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	10.50	8.1	18.60	0.072	3.00	Pass
			RB25#0	9.53	8.1	17.63	0.058	3.00	Pass
		16-QAM	RB1#0	9.52	8.1	17.62	0.058	3.00	Pass
			RB25#0	8.66	8.1	16.76	0.047	3.00	Pass
	MCH	QPSK	RB1#0	10.18	8.1	18.28	0.067	3.00	Pass
			RB25#0	9.74	8.1	17.84	0.061	3.00	Pass
		16-QAM	RB1#0	8.48	8.1	16.58	0.045	3.00	Pass
			RB25#0	8.80	8.1	16.90	0.049	3.00	Pass
	HCH	QPSK	RB1#0	10.03	8.1	18.13	0.065	3.00	Pass
			RB25#0	9.73	8.1	17.83	0.061	3.00	Pass
		16-QAM	RB1#0	9.36	8.1	17.46	0.056	3.00	Pass
			RB25#0	9.05	8.1	17.15	0.052	3.00	Pass
10 MHz	LCH	QPSK	RB1#0	10.44	8.1	18.54	0.071	3.00	Pass
			RB50#0	9.34	8.1	17.44	0.055	3.00	Pass
		16-QAM	RB1#0	8.97	8.1	17.07	0.051	3.00	Pass
			RB50#0	8.36	8.1	16.46	0.044	3.00	Pass
	MCH	QPSK	RB1#0	10.23	8.1	18.33	0.068	3.00	Pass
			RB50#0	9.27	8.1	17.37	0.055	3.00	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									
		16-QAM	RB1#0	8.75	8.1	16.85	0.048	3.00	Pass
			RB50#0	8.81	8.1	16.91	0.049	3.00	Pass
	HCH	QPSK	RB1#0	10.39	8.1	18.49	0.071	3.00	Pass
			RB50#0	9.53	8.1	17.63	0.058	3.00	Pass
		16-QAM	RB1#0	9.25	8.1	17.35	0.054	3.00	Pass
			RB50#0	8.83	8.1	16.93	0.049	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 BAND25									
1.4 MHz	LCH	QPSK	RB1#0	1.84	17.8	19.64	0.092	2.00	Pass
			RB6#0	0.56	17.8	18.36	0.069	2.00	Pass
		16-QAM	RB1#0	0.44	17.8	18.24	0.067	2.00	Pass
			RB6#0	-0.22	17.8	17.58	0.057	2.00	Pass
	MCH	QPSK	RB1#0	1.40	17.8	19.20	0.083	2.00	Pass
			RB6#0	0.07	17.8	17.87	0.061	2.00	Pass
		16-QAM	RB1#0	0.43	17.8	18.23	0.067	2.00	Pass
			RB6#0	-0.42	17.8	17.38	0.055	2.00	Pass
	HCH	QPSK	RB1#0	1.10	17.8	18.90	0.078	2.00	Pass
			RB6#0	-0.10	17.8	17.70	0.059	2.00	Pass
		16-QAM	RB1#0	0.95	17.8	18.75	0.075	2.00	Pass
			RB6#0	0.34	17.8	18.14	0.065	2.00	Pass
3 MHz	LCH	QPSK	RB1#0	1.45	17.8	19.25	0.084	2.00	Pass
			RB15#0	-0.11	17.8	17.69	0.059	2.00	Pass
		16-QAM	RB1#0	1.31	17.8	19.11	0.081	2.00	Pass
			RB15#0	0.21	17.8	18.01	0.063	2.00	Pass
	MCH	QPSK	RB1#0	0.72	17.8	18.52	0.071	2.00	Pass
			RB15#0	0.56	17.8	18.36	0.069	2.00	Pass
		16-QAM	RB1#0	0.15	17.8	17.95	0.062	2.00	Pass
			RB15#0	-0.45	17.8	17.35	0.054	2.00	Pass
	HCH	QPSK	RB1#0	1.29	17.8	19.09	0.081	2.00	Pass
			RB15#0	1.13	17.8	18.93	0.078	2.00	Pass
		16-QAM	RB1#0	0.49	17.8	18.29	0.067	2.00	Pass
			RB15#0	0.88	17.8	18.68	0.074	2.00	Pass
5 MHz	LCH	QPSK	RB1#0	1.13	17.8	18.93	0.078	2.00	Pass
			RB25#0	0.14	17.8	17.94	0.062	2.00	Pass
		16-QAM	RB1#0	0.11	17.8	17.91	0.062	2.00	Pass
			RB25#0	-0.01	17.8	17.79	0.060	2.00	Pass
	MCH	QPSK	RB1#0	1.36	17.8	19.16	0.082	2.00	Pass
			RB25#0	0.38	17.8	18.18	0.066	2.00	Pass
		16-QAM	RB1#0	0.11	17.8	17.91	0.062	2.00	Pass
			RB25#0	-0.65	17.8	17.15	0.052	2.00	Pass
	HCH	QPSK	RB1#0	1.57	17.8	19.37	0.086	2.00	Pass
			RB25#0	-0.20	17.8	17.60	0.058	2.00	Pass
		16-QAM	RB1#0	0.95	17.8	18.75	0.075	2.00	Pass
			RB25#0	0.36	17.8	18.16	0.065	2.00	Pass
10 MHz	LCH	QPSK	RB1#0	1.58	17.8	19.38	0.087	2.00	Pass
			RB50#0	0.89	17.8	18.69	0.074	2.00	Pass
		16-QAM	RB1#0	0.87	17.8	18.67	0.074	2.00	Pass
			RB50#0	0.06	17.8	17.86	0.061	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 BAND25									
	MCH	QPSK	RB1#0	1.03	17.8	18.83	0.076	2.00	Pass
			RB50#0	0.02	17.8	17.82	0.061	2.00	Pass
		16-QAM	RB1#0	0.25	17.8	18.05	0.064	2.00	Pass
			RB50#0	0.08	17.8	17.88	0.061	2.00	Pass
	HCH	QPSK	RB1#0	1.42	17.8	19.22	0.084	2.00	Pass
			RB50#0	-0.02	17.8	17.78	0.060	2.00	Pass
		16-QAM	RB1#0	0.93	17.8	18.73	0.075	2.00	Pass
			RB50#0	1.59	17.8	19.39	0.087	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	1.30	17.8	19.10	0.081	2.00	Pass
			RB75#0	0.82	17.8	18.62	0.073	2.00	Pass
		16-QAM	RB1#0	1.31	17.8	19.11	0.081	2.00	Pass
			RB75#0	-0.41	17.8	17.39	0.055	2.00	Pass
	MCH	QPSK	RB1#0	1.41	17.8	19.21	0.083	2.00	Pass
			RB75#0	0.15	17.8	17.95	0.062	2.00	Pass
		16-QAM	RB1#0	0.18	17.8	17.98	0.063	2.00	Pass
			RB75#0	0.00	17.8	17.80	0.060	2.00	Pass
	HCH	QPSK	RB1#0	0.58	17.8	18.38	0.069	2.00	Pass
			RB75#0	1.02	17.8	18.82	0.076	2.00	Pass
		16-QAM	RB1#0	1.43	17.8	19.23	0.084	2.00	Pass
			RB75#0	1.25	17.8	19.05	0.080	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	1.27	17.8	19.07	0.081	2.00	Pass
			RB100#0	-0.06	17.8	17.74	0.059	2.00	Pass
		16-QAM	RB1#0	0.65	17.8	18.45	0.070	2.00	Pass
			RB100#0	0.00	17.8	17.80	0.060	2.00	Pass
	MCH	QPSK	RB1#0	0.99	17.8	18.79	0.076	2.00	Pass
			RB100#0	0.69	17.8	18.49	0.071	2.00	Pass
		16-QAM	RB1#0	0.48	17.8	18.28	0.067	2.00	Pass
			RB100#0	-0.70	17.8	17.10	0.051	2.00	Pass
	HCH	QPSK	RB1#0	1.20	17.8	19.00	0.079	2.00	Pass
			RB100#0	1.02	17.8	18.82	0.076	2.00	Pass
		16-QAM	RB1#0	0.94	17.8	18.74	0.075	2.00	Pass
			RB100#0	0.54	17.8	18.34	0.068	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									
5 MHz	LCH	QPSK	RB1#0	1.42	19.5	20.92	0.124	2.00	Pass
			RB25#0	0.66	19.5	20.16	0.104	2.00	Pass
		16-QAM	RB1#0	1.39	19.5	20.89	0.123	2.00	Pass
			RB25#0	0.04	19.5	19.54	0.090	2.00	Pass
	MCH	QPSK	RB1#0	1.02	19.5	20.52	0.113	2.00	Pass
			RB25#0	0.30	19.5	19.80	0.095	2.00	Pass
		16-QAM	RB1#0	0.66	19.5	20.16	0.104	2.00	Pass
			RB25#0	-0.18	19.5	19.32	0.086	2.00	Pass
	HCH	QPSK	RB1#0	1.05	19.5	20.55	0.114	2.00	Pass
			RB25#0	0.78	19.5	20.28	0.107	2.00	Pass
		16-QAM	RB1#0	0.96	19.5	20.46	0.111	2.00	Pass
			RB25#0	1.11	19.5	20.61	0.115	2.00	Pass
10 MHz	LCH	QPSK	RB1#0	1.23	19.5	20.73	0.118	2.00	Pass
			RB50#0	0.38	19.5	19.88	0.097	2.00	Pass
		16-QAM	RB1#0	1.32	19.5	20.82	0.121	2.00	Pass
			RB50#0	0.35	19.5	19.85	0.097	2.00	Pass
	MCH	QPSK	RB1#0	0.83	19.5	20.33	0.108	2.00	Pass
			RB50#0	0.75	19.5	20.25	0.106	2.00	Pass
		16-QAM	RB1#0	0.73	19.5	20.23	0.105	2.00	Pass
			RB50#0	-0.14	19.5	19.36	0.086	2.00	Pass
	HCH	QPSK	RB1#0	1.41	19.5	20.91	0.123	2.00	Pass
			RB50#0	0.45	19.5	19.95	0.099	2.00	Pass
		16-QAM	RB1#0	0.82	19.5	20.32	0.108	2.00	Pass
			RB50#0	0.97	19.5	20.47	0.111	2.00	Pass
15 MHz	LCH	QPSK	RB1#0	1.31	19.5	20.81	0.121	2.00	Pass
			RB75#0	0.39	19.5	19.89	0.097	2.00	Pass
		16-QAM	RB1#0	0.70	19.5	20.20	0.105	2.00	Pass
			RB75#0	0.25	19.5	19.75	0.094	2.00	Pass
	MCH	QPSK	RB1#0	1.00	19.5	20.50	0.112	2.00	Pass
			RB75#0	0.42	19.5	19.92	0.098	2.00	Pass
		16-QAM	RB1#0	0.73	19.5	20.23	0.105	2.00	Pass
			RB75#0	0.04	19.5	19.54	0.090	2.00	Pass
	HCH	QPSK	RB1#0	1.20	19.5	20.70	0.117	2.00	Pass
			RB75#0	1.03	19.5	20.53	0.113	2.00	Pass
		16-QAM	RB1#0	0.88	19.5	20.38	0.109	2.00	Pass
			RB75#0	0.84	19.5	20.34	0.108	2.00	Pass
20 MHz	LCH	QPSK	RB1#0	1.21	19.5	20.71	0.118	2.00	Pass
			RB100#0	0.53	19.5	20.03	0.101	2.00	Pass
		16-QAM	RB1#0	0.80	19.5	20.30	0.107	2.00	Pass
			RB100#0	0.23	19.5	19.73	0.094	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	RB1#0	1.21	19.5	20.71	0.118	2.00	Pass
			RB100#0	0.40	19.5	19.90	0.098	2.00	Pass
		16-QAM	RB1#0	0.76	19.5	20.26	0.106	2.00	Pass
			RB100#0	-0.23	19.5	19.27	0.085	2.00	Pass
	HCH	QPSK	RB1#0	0.93	19.5	20.43	0.110	2.00	Pass
			RB100#0	0.97	19.5	20.47	0.111	2.00	Pass
		16-QAM	RB1#0	1.15	19.5	20.65	0.116	2.00	Pass
			RB100#0	0.57	19.5	20.07	0.102	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-EC18B0415-501 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	3.19	13	1.1	Pass
	MCH	2.93	13	1.2	Pass
	HCH	2.96	13	1.3	Pass
Band 5	LCH	3.48	13	2.1	Pass
	MCH	3.28	13	2.2	Pass
	HCH	3.30	13	2.3	Pass

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	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	3.54	13	3.1	Pass
				RB100#0	4.87	13	3.2	Pass
			16-QAM	RB1#0	4.17	13	3.3	Pass
				RB100#0	5.91	13	3.4	Pass
		MCH	QPSK	RB1#0	4.26	13	3.5	Pass
				RB100#0	4.55	13	3.6	Pass
			16-QAM	RB1#0	5.33	13	3.7	Pass
				RB100#0	5.62	13	3.8	Pass
		HCH	QPSK	RB1#0	4.41	13	3.9	Pass
				RB100#0	4.75	13	3.10	Pass
			16-QAM	RB1#0	5.19	13	3.11	Pass
				RB100#0	5.83	13	3.12	Pass
LTE Band 4	20 MHz	LCH	QPSK	RB1#0	4.43	13	4.1	Pass
				RB100#0	5.01	13	4.2	Pass
			16-QAM	RB1#0	5.22	13	4.3	Pass
				RB100#0	6.12	13	4.4	Pass
		MCH	QPSK	RB1#0	4.64	13	4.5	Pass
				RB100#0	4.70	13	4.6	Pass
			16-QAM	RB1#0	5.33	13	4.7	Pass
				RB100#0	5.74	13	4.8	Pass
		HCH	QPSK	RB1#0	3.91	13	4.9	Pass
				RB100#0	4.29	13	4.10	Pass
			16-QAM	RB1#0	4.81	13	4.11	Pass
				RB100#0	5.30	13	4.12	Pass
LTE Band 5	10 MHz	LCH	QPSK	RB1#0	3.83	13	5.1	Pass
				RB50#0	4.90	13	5.2	Pass
			16-QAM	RB1#0	4.67	13	5.3	Pass
				RB50#0	5.97	13	5.4	Pass
		MCH	QPSK	RB1#0	3.65	13	5.5	Pass
				RB50#0	4.72	13	5.6	Pass
			16-QAM	RB1#0	4.52	13	5.7	Pass
				RB50#0	5.77	13	5.8	Pass
		HCH	QPSK	RB1#0	3.68	13	5.9	Pass
				RB50#0	4.70	13	5.10	Pass
			16-QAM	RB1#0	4.55	13	5.11	Pass
				RB50#0	5.83	13	5.12	Pass
LTE Band 7	20 MHz	LCH	QPSK	RB1#0	4.72	13	6.1	Pass
				RB100#0	5.22	13	6.2	Pass
			16-QAM	RB1#0	5.51	13	6.3	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
		MCH	QPSK	RB100#0	6.29	13	6.4	Pass
				RB1#0	4.93	13	6.5	Pass
				RB100#0	5.16	13	6.6	Pass
			16-QAM	RB1#0	5.88	13	6.7	Pass
				RB100#0	6.26	13	6.8	Pass
		HCH	QPSK	RB1#0	5.13	13	6.9	Pass
				RB100#0	5.25	13	6.10	Pass
			16-QAM	RB1#0	6.14	13	6.11	Pass
				RB100#0	6.32	13	6.12	Pass
				RB100#0	6.32	13	6.12	Pass
LTE Band 12	10 MHz	LCH	QPSK	RB1#0	4.26	13	7.1	Pass
				RB50#0	4.81	13	7.2	Pass
			16-QAM	RB1#0	5.10	13	7.3	Pass
				RB50#0	5.86	13	7.4	Pass
		MCH	QPSK	RB1#0	4.38	13	7.5	Pass
				RB50#0	4.81	13	7.6	Pass
			16-QAM	RB1#0	5.16	13	7.7	Pass
				RB50#0	5.88	13	7.8	Pass
		HCH	QPSK	RB1#0	4.32	13	7.9	Pass
				RB50#0	4.84	13	7.10	Pass
			16-QAM	RB1#0	5.22	13	7.11	Pass
				RB50#0	5.88	13	7.12	Pass
LTE Band 13	10 MHz	MCH	QPSK	RB1#0	4.46	13	8.1	Pass
				RB50#0	4.93	13	8.2	Pass
			16-QAM	RB1#0	5.51	13	8.3	Pass
				RB50#0	6.03	13	8.4	Pass
LTE Band 17	10 MHz	LCH	QPSK	RB1#0	4.43	13	9.1	Pass
				RB50#0	4.93	13	9.2	Pass
			16-QAM	RB1#0	5.28	13	9.3	Pass
				RB50#0	6.00	13	9.4	Pass
		MCH	QPSK	RB1#0	4.52	13	9.5	Pass
				RB50#0	4.96	13	9.6	Pass
			16-QAM	RB1#0	5.45	13	9.7	Pass
				RB50#0	6.00	13	9.8	Pass
		HCH	QPSK	RB1#0	4.52	13	9.9	Pass
				RB50#0	4.96	13	9.10	Pass
			16-QAM	RB1#0	5.36	13	9.11	Pass
				RB50#0	5.97	13	9.12	Pass
LTE Band 25	20 MHz	LCH	QPSK	RB1#0	3.65	13	10.1	Pass
				RB100#0	4.90	13	10.2	Pass
			16-QAM	RB1#0	4.29	13	10.3	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
		MCH	QPSK	RB100#0	5.91	13	10.4	Pass
				RB1#0	4.17	13	10.5	Pass
				RB100#0	4.58	13	10.6	Pass
			16-QAM	RB1#0	5.10	13	10.7	Pass
				RB100#0	5.45	13	10.8	Pass
				RB100#0	5.65	13	10.12	Pass
		HCH	QPSK	RB1#0	4.67	13	10.9	Pass
				RB100#0	4.52	13	10.10	Pass
				RB1#0	5.54	13	10.11	Pass
			16-QAM	RB100#0	5.65	13	10.12	Pass
LTE Band 41	20 MHz	LCH	QPSK	RB1#0	8.84	13	11.1	Pass
				RB100#0	8.46	13	11.2	Pass
			16-QAM	RB1#0	9.10	13	11.3	Pass
				RB100#0	9.51	13	11.4	Pass
		MCH	QPSK	RB1#0	8.64	13	11.5	Pass
				RB100#0	8.67	13	11.6	Pass
			16-QAM	RB1#0	9.51	13	11.7	Pass
				RB100#0	9.94	13	11.8	Pass
		HCH	QPSK	RB1#0	8.67	13	11.9	Pass
				RB100#0	8.99	13	11.10	Pass
			16-QAM	RB1#0	9.45	13	11.11	Pass
				RB100#0	9.91	13	11.12	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-EC18B0415-501 Data Part 2.pdf”.

GSM 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	0.30	1.1
	MCH	0.24	0.30	1.2
	HCH	0.25	0.31	1.3
GSM 1900	LCH	0.24	0.31	2.1
	MCH	0.24	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	0.31	3.3
EGPRS 1900	LCH	0.24	0.31	4.1
	MCH	0.25	0.31	4.2
	HCH	0.24	0.30	4.3
WCDMA Band 2	LCH	4.10	4.70	5.1
	MCH	4.10	4.71	5.2
	HCH	4.10	4.70	5.3
WCDMA Band 5	LCH	4.10	4.68	6.1
	MCH	4.10	4.70	6.2
	HCH	4.11	4.69	6.3

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	1.09	1.29	7.1
			16-QAM	RB6#0	1.09	1.3	7.2
		MCH	QPSK	RB6#0	1.09	1.3	7.3
			16-QAM	RB6#0	1.09	1.28	7.4
		HCH	QPSK	RB6#0	1.09	1.27	7.5
			16-QAM	RB6#0	1.09	1.29	7.6
	3 MHz	LCH	QPSK	RB15#0	2.7	3	7.7
			16-QAM	RB15#0	2.69	2.99	7.8
		MCH	QPSK	RB15#0	2.7	3	7.9
			16-QAM	RB15#0	2.7	2.98	7.10
		HCH	QPSK	RB15#0	2.7	2.98	7.11
			16-QAM	RB15#0	2.7	3	7.12
	5 MHz	LCH	QPSK	RB25#0	4.5	5.02	7.13
			16-QAM	RB25#0	4.49	4.96	7.14
		MCH	QPSK	RB25#0	4.49	5	7.15
			16-QAM	RB25#0	4.5	5	7.16
		HCH	QPSK	RB25#0	4.49	5	7.17
			16-QAM	RB25#0	4.5	5.02	7.18
	10 MHz	LCH	QPSK	RB50#0	8.95	9.96	7.19
			16-QAM	RB50#0	8.95	9.88	7.20
		MCH	QPSK	RB50#0	8.92	9.83	7.21
			16-QAM	RB50#0	8.94	9.87	7.22
		HCH	QPSK	RB50#0	8.92	9.83	7.23
			16-QAM	RB50#0	8.93	9.85	7.24
	15 MHz	LCH	QPSK	RB75#0	13.42	14.79	7.25
			16-QAM	RB75#0	13.41	14.68	7.26
		MCH	QPSK	RB75#0	13.36	14.63	7.27
			16-QAM	RB75#0	13.37	14.62	7.28
		HCH	QPSK	RB75#0	13.31	14.66	7.29
			16-QAM	RB75#0	13.35	14.56	7.30
	20 MHz	LCH	QPSK	RB100#0	17.87	19.34	7.31
			16-QAM	RB100#0	17.92	19.49	7.32
		MCH	QPSK	RB100#0	17.85	19.33	7.33
			16-QAM	RB100#0	17.82	19.3	7.34
		HCH	QPSK	RB100#0	17.81	19.52	7.35
			16-QAM	RB100#0	17.78	19.28	7.36

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	1.09	1.29	8.1
			16-QAM	RB6#0	1.09	1.3	8.2
		MCH	QPSK	RB6#0	1.09	1.3	8.3
			16-QAM	RB6#0	1.09	1.29	8.4
		HCH	QPSK	RB6#0	1.09	1.27	8.5
			16-QAM	RB6#0	1.09	1.29	8.6
	3 MHz	LCH	QPSK	RB15#0	2.7	2.99	8.7
			16-QAM	RB15#0	2.7	2.97	8.8
		MCH	QPSK	RB15#0	2.7	2.98	8.9
			16-QAM	RB15#0	2.7	2.99	8.10
		HCH	QPSK	RB15#0	2.7	2.99	8.11
			16-QAM	RB15#0	2.7	3	8.12
	5 MHz	LCH	QPSK	RB25#0	4.5	5.03	8.13
			16-QAM	RB25#0	4.49	4.99	8.14
		MCH	QPSK	RB25#0	4.49	4.98	8.15
			16-QAM	RB25#0	4.51	5.03	8.16
		HCH	QPSK	RB25#0	4.49	4.99	8.17
			16-QAM	RB25#0	4.5	5	8.18
	10 MHz	LCH	QPSK	RB50#0	8.96	9.95	8.19
			16-QAM	RB50#0	8.94	9.84	8.20
		MCH	QPSK	RB50#0	8.92	9.84	8.21
			16-QAM	RB50#0	8.94	9.82	8.22
		HCH	QPSK	RB50#0	8.95	9.84	8.23
			16-QAM	RB50#0	8.95	9.91	8.24
	15 MHz	LCH	QPSK	RB75#0	13.4	14.78	8.25
			16-QAM	RB75#0	13.41	14.62	8.26
		MCH	QPSK	RB75#0	13.38	14.66	8.27
			16-QAM	RB75#0	13.41	14.65	8.28
		HCH	QPSK	RB75#0	13.37	14.72	8.29
			16-QAM	RB75#0	13.42	14.69	8.30
	20 MHz	LCH	QPSK	RB100#0	17.9	19.28	8.31
			16-QAM	RB100#0	17.9	19.51	8.32
		MCH	QPSK	RB100#0	17.86	19.39	8.33
			16-QAM	RB100#0	17.88	19.48	8.34
		HCH	QPSK	RB100#0	17.85	19.44	8.35
			16-QAM	RB100#0	17.87	19.38	8.36

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	1.08	1.28	9.1
			16-QAM	RB6#0	1.09	1.27	9.2
		MCH	QPSK	RB6#0	1.09	1.29	9.3
			16-QAM	RB6#0	1.09	1.27	9.4
		HCH	QPSK	RB6#0	1.09	1.27	9.5
			16-QAM	RB6#0	1.09	1.28	9.6
	3 MHz	LCH	QPSK	RB15#0	2.7	2.98	9.7
			16-QAM	RB15#0	2.7	3	9.8
		MCH	QPSK	RB15#0	2.71	2.98	9.9
			16-QAM	RB15#0	2.7	2.98	9.10
		HCH	QPSK	RB15#0	2.71	3	9.11
			16-QAM	RB15#0	2.69	2.99	9.12
	5 MHz	LCH	QPSK	RB25#0	4.5	5.02	9.13
			16-QAM	RB25#0	4.49	4.95	9.14
		MCH	QPSK	RB25#0	4.49	5.01	9.15
			16-QAM	RB25#0	4.49	5	9.16
		HCH	QPSK	RB25#0	4.49	4.97	9.17
			16-QAM	RB25#0	4.5	5.02	9.18
	10 MHz	LCH	QPSK	RB50#0	8.96	9.92	9.19
			16-QAM	RB50#0	8.96	9.84	9.20
		MCH	QPSK	RB50#0	8.94	9.87	9.21
			16-QAM	RB50#0	8.94	9.8	9.22
		HCH	QPSK	RB50#0	8.94	9.89	9.23
			16-QAM	RB50#0	8.95	9.89	9.24

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	4.5	4.98	10.1
			16-QAM	RB25#0	4.49	4.96	10.2
		MCH	QPSK	RB25#0	4.49	4.97	10.3
			16-QAM	RB25#0	4.5	5	10.4
		HCH	QPSK	RB25#0	4.49	4.98	10.5
			16-QAM	RB25#0	4.5	5.01	10.6
	10 MHz	LCH	QPSK	RB50#0	8.96	9.92	10.7
			16-QAM	RB50#0	8.96	9.89	10.8
		MCH	QPSK	RB50#0	8.94	9.86	10.9
			16-QAM	RB50#0	8.94	9.78	10.10
		HCH	QPSK	RB50#0	8.95	9.88	10.11
			16-QAM	RB50#0	8.95	9.8	10.12
	15 MHz	LCH	QPSK	RB75#0	13.42	14.75	10.13
			16-QAM	RB75#0	13.44	14.67	10.14
		MCH	QPSK	RB75#0	13.38	14.62	10.15
			16-QAM	RB75#0	13.41	14.69	10.16
		HCH	QPSK	RB75#0	13.41	14.67	10.17
			16-QAM	RB75#0	13.42	14.72	10.18
	20 MHz	LCH	QPSK	RB100#0	17.89	19.33	10.19
			16-QAM	RB100#0	17.94	19.54	10.20
		MCH	QPSK	RB100#0	17.88	19.37	10.21
			16-QAM	RB100#0	17.85	19.43	10.22
		HCH	QPSK	RB100#0	17.92	19.53	10.23
			16-QAM	RB100#0	17.9	19.38	10.24

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 12	1.4 MHz	LCH	QPSK	RB6#0	1.09	1.28	11.1
			16-QAM	RB6#0	1.1	1.29	11.2
		MCH	QPSK	RB6#0	1.09	1.3	11.3
			16-QAM	RB6#0	1.08	1.28	11.4
		HCH	QPSK	RB6#0	1.09	1.27	11.5
			16-QAM	RB6#0	1.09	1.29	11.6
	3 MHz	LCH	QPSK	RB15#0	2.7	2.98	11.7
			16-QAM	RB15#0	2.7	3	11.8
		MCH	QPSK	RB15#0	2.7	2.99	11.9
			16-QAM	RB15#0	2.7	2.99	11.10
		HCH	QPSK	RB15#0	2.7	2.98	11.11
			16-QAM	RB15#0	2.69	2.98	11.12
	5 MHz	LCH	QPSK	RB25#0	4.5	4.99	11.13
			16-QAM	RB25#0	4.49	4.97	11.14
		MCH	QPSK	RB25#0	4.49	4.98	11.15
			16-QAM	RB25#0	4.51	5	11.16
		HCH	QPSK	RB25#0	4.48	4.96	11.17
			16-QAM	RB25#0	4.5	5.01	11.18
	10 MHz	LCH	QPSK	RB50#0	8.96	9.93	11.19
			16-QAM	RB50#0	8.94	9.87	11.20
		MCH	QPSK	RB50#0	8.94	9.86	11.21
			16-QAM	RB50#0	8.93	9.9	11.22
		HCH	QPSK	RB50#0	8.96	9.93	11.23
			16-QAM	RB50#0	8.96	9.88	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 13	5 MHz	LCH	QPSK	RB25#0	4.5	5	12.1
			16-QAM	RB25#0	4.49	4.97	12.2
		MCH	QPSK	RB25#0	4.49	5	12.3
			16-QAM	RB25#0	4.5	5	12.4
		HCH	QPSK	RB25#0	4.49	4.95	12.5
			16-QAM	RB25#0	4.5	5.03	12.6
	10 MHz	MCH	QPSK	RB50#0	8.94	9.87	12.7
			16-QAM	RB50#0	8.95	9.81	12.8

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	4.49	5	13.1
			16-QAM	RB25#0	4.49	4.95	13.2
		MCH	QPSK	RB25#0	4.49	5	13.3
			16-QAM	RB25#0	4.51	5	13.4
		HCH	QPSK	RB25#0	4.49	4.96	13.5
			16-QAM	RB25#0	4.49	5.03	13.6
	10 MHz	LCH	QPSK	RB50#0	8.95	9.9	13.7
			16-QAM	RB50#0	8.96	9.85	13.8
		MCH	QPSK	RB50#0	8.94	9.84	13.9
			16-QAM	RB50#0	8.94	9.81	13.10
		HCH	QPSK	RB50#0	8.95	9.92	13.11
			16-QAM	RB50#0	8.94	9.9	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 25	1.4 MHz	LCH	QPSK	RB6#0	1.09	1.28	14.1
			16-QAM	RB6#0	1.1	1.3	14.2
		MCH	QPSK	RB6#0	1.09	1.29	14.3
			16-QAM	RB6#0	1.09	1.28	14.4
		HCH	QPSK	RB6#0	1.09	1.28	14.5
			16-QAM	RB6#0	1.09	1.3	14.6
	3 MHz	LCH	QPSK	RB15#0	2.7	2.98	14.7
			16-QAM	RB15#0	2.7	2.98	14.8
		MCH	QPSK	RB15#0	2.7	2.99	14.9
			16-QAM	RB15#0	2.7	3	14.10
		HCH	QPSK	RB15#0	2.71	3	14.11
			16-QAM	RB15#0	2.69	2.99	14.12
	5 MHz	LCH	QPSK	RB25#0	4.49	5	14.13
			16-QAM	RB25#0	4.49	4.98	14.14
		MCH	QPSK	RB25#0	4.49	5.02	14.15
			16-QAM	RB25#0	4.5	4.99	14.16
		HCH	QPSK	RB25#0	4.5	4.98	14.17
			16-QAM	RB25#0	4.5	5.04	14.18
	10 MHz	LCH	QPSK	RB50#0	8.96	9.98	14.19
			16-QAM	RB50#0	8.95	9.85	14.20
		MCH	QPSK	RB50#0	8.93	9.85	14.21
			16-QAM	RB50#0	8.94	9.83	14.22
		HCH	QPSK	RB50#0	8.96	9.93	14.23
			16-QAM	RB50#0	8.97	9.89	14.24
	15 MHz	LCH	QPSK	RB75#0	13.44	14.77	14.25
			16-QAM	RB75#0	13.43	14.72	14.26
		MCH	QPSK	RB75#0	13.37	14.69	14.27
			16-QAM	RB75#0	13.4	14.67	14.28
		HCH	QPSK	RB75#0	13.37	14.63	14.29
			16-QAM	RB75#0	13.39	14.72	14.30
	20 MHz	LCH	QPSK	RB100#0	17.9	19.32	14.31
			16-QAM	RB100#0	17.87	19.51	14.32
		MCH	QPSK	RB100#0	17.86	19.35	14.33
			16-QAM	RB100#0	17.86	19.43	14.34
		HCH	QPSK	RB100#0	17.79	19.36	14.35
			16-QAM	RB100#0	17.79	19.33	14.36

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 41	5 MHz	LCH	QPSK	RB25#0	4.49	5.02	15.1
			16-QAM	RB25#0	4.5	5.14	15.2
		MCH	QPSK	RB25#0	4.5	4.97	15.3
			16-QAM	RB25#0	4.49	5.02	15.4
		HCH	QPSK	RB25#0	4.49	5	15.5
			16-QAM	RB25#0	4.49	5.03	15.6
	10 MHz	LCH	QPSK	RB50#0	8.99	11.12	15.7
			16-QAM	RB50#0	8.98	9.85	15.8
		MCH	QPSK	RB50#0	8.97	10.05	15.9
			16-QAM	RB50#0	8.94	9.82	15.10
		HCH	QPSK	RB50#0	8.99	9.97	15.11
			16-QAM	RB50#0	8.97	9.92	15.12
	15 MHz	LCH	QPSK	RB75#0	13.44	15.95	15.13
			16-QAM	RB75#0	13.46	16.09	15.14
		MCH	QPSK	RB75#0	13.4	14.8	15.15
			16-QAM	RB75#0	13.49	15.08	15.16
		HCH	QPSK	RB75#0	13.44	15.88	15.17
			16-QAM	RB75#0	13.49	14.92	15.18
	20 MHz	LCH	QPSK	RB100#0	17.91	19.41	15.19
			16-QAM	RB100#0	17.87	19.97	15.20
		MCH	QPSK	RB100#0	17.91	20.8	15.21
			16-QAM	RB100#0	17.94	21.54	15.22
		HCH	QPSK	RB100#0	17.95	20.04	15.23
			16-QAM	RB100#0	17.89	19.92	15.24

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	-30	-5.62	±2060.5	11.56	±2091.5	15.63	±2122	Pass
	-20	4.52		4.55		7.04		
	-10	5.49		5.17		6.36		
	0	-4.91		-4.49		6.23		
	+10	7.17		-6.49		-2.78		
	+20	-4.65		3.91		9.43		
	+30	6.52		-4.49		2.94		
	+40	-3.62		-5.07		4.26		
	+50	5.1		9.33		8.85		
	+55	-4.29		10.36		4.29		
3.7	+25	8.78		-4.68		6.23		
4.35	+25	18.34		-4.81		-3.33		

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	-30	-12.01	±4625.5	-4.88	±4700.0	-5.49	±4774.5	Pass
	-20	-4.36		5.81		-12.01		
	-10	-8.07		-7.01		-12.56		
	0	4.91		-7.75		-10.11		
	+10	-8.2		11.3		-8.85		
	+20	4.04		-9.27		-10.65		
	+30	-9.75		-9.69		-10.59		
	+40	-8.85		6.42		-21.6		
	+50	-8.01		6.65		10.65		
	+55	5.17		5.84		-9.33		
3.7	+25	-5.94		4.39		-7.43		
4.35	+25	5.91		-6.75		-6.72		

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	-30	18.24	±2060.5	18.95	±2091.5	19.53	±2122	Pass
	-20	15.95		18.4		17.98		
	-10	18.44		18.47		17.85		
	0	18.6		19.05		18.08		
	+10	16.69		19.5		19.69		
	+20	15.88		18.24		18.73		
	+30	18.79		18.31		19.21		
	+40	18.63		18.5		18.53		
	+50	19.73		18.85		18.11		
	+55	19.21		17.56		21.47		
3.7	+25	20.95		21.53		20.95		
4.35	+25	18.63		20.6		21.37		

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	-30	18.34	±4625.5	16.3	±4700.0	17.47	±4774.5	Pass
	-20	18.53		14.82		13.79		
	-10	15.14		14.46		15.92		
	0	16.43		22.89		14.33		
	+10	19.79		17.89		12.69		
	+20	16.66		17.56		16.72		
	+30	18.69		17.37		14.37		
	+40	13.98		22.57		16.37		
	+50	17.72		14.69		17.01		
	+55	15.21		14.17		15.63		
3.7	+25	15.98		20.28		20.99		
4.35	+25	19.37		17.24		20.21		

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	-30	23.7	±2060.5	23.99	±2091.5	27.48	±2122	Pass
	-20	20.11		20.28		24.05		
	-10	22.66		20.76		26.18		
	0	21.02		22.57		25.63		
	+10	22.7		20.47		23.41		
	+20	23.08		23.54		24.73		
	+30	24.25		21.86		21.63		
	+40	22.41		21.86		25.51		
	+50	22.7		22.54		23.41		
	+55	23.05		20.73		27.99		
3.7	+25	24.8		23.57		26.05		
4.35	+25	22.21		22.63		24.76		

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	-30	22.12	±4625.5	18.85	±4700.0	19.24	±4774.5	Pass
	-20	16.4		16.66		14.75		
	-10	18.5		19.76		18.08		
	0	21.02		23.37		19.5		
	+10	19.79		21.24		27.7		
	+20	24.28		15.37		17.43		
	+30	19.05		20.99		17.08		
	+40	21.92		19.69		20.86		
	+50	20.02		18.73		16.89		
	+55	21.41		23.15		21.66		
3.7	+25	23.34		26.28		19.02		
4.35	+25	23.89		20.11		25.18		

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	-30	2.54	±4631	-1.32	±4700	-4.72	±4769	Pass
	-20	1.5		-0.69		-5.14		
	-10	2.9		-0.54		-5.5		
	0	2.37		-0.94		-4.83		
	+10	2.49		-0.42		-5.86		
	+20	2.32		-0.52		-3.75		
	+30	2.45		-0.94		-4.43		
	+40	2.56		-1.27		-4.21		
	+50	2.36		-1.08		-4.11		
	+55	2.02		-0.55		-4.46		
3.7	+25	1.74		-1.33		-4.77		
4.35	+25	2.27		-0.59		-4.55		

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	-30	0.17	±2066	0.11	±2091	-1.39	±2116.5	Pass
	-20	1.63		-0.29		-1.76		
	-10	1.51		0.06		-1.47		
	0	1.09		0.01		-2.12		
	+10	0.99		0.06		-1.89		
	+20	1.16		-0.37		-1.43		
	+30	0.99		-0.12		-1.72		
	+40	1.09		-0.26		-1.76		
	+50	1.54		0.01		-1.61		
	+55	0.95		0.13		-1.92		
3.7	+25	1.31		0.02		-1.6		
4.35	+25	0.89		-0.02		-0.91		

LTE Band 2 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-30	-4.08	±4700	Pass
	-20	-3.75		
	-10	-3.58		
	0	-4.06		
	+10	-3.55		
	+20	-2.82		
	+30	-4.63		
	+40	-2.89		
	+50	-3.6		
	+55	-3.19		
3.7	+25	-4.48	±4700	Pass
4.35	+25	-3.25		

LTE Band 2 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-30	-4.32	±4700	Pass
	-20	-3.66		
	-10	-4.82		
	0	-3.75		
	+10	-3.73		
	+20	-3.19		
	+30	-3.23		
	+40	-4.53		
	+50	-3.68		
	+55	-4.12		
3.7	+25	-3.96	±4700	Pass
4.35	+25	-3.22		

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	-30	1.17	±4331.25	Pass
	-20	-0.34		
	-10	1.29		
	0	1		
	+10	-0.44		
	+20	1.3		
	+30	0.96		
	+40	1.26		
	+50	-0.06		
	+55	1.72		
3.7	+25	1.32		
4.35	+25	1.16		

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	-30	1.33	±4331.25	Pass
	-20	1.17		
	-10	0.87		
	0	0.6		
	+10	-0.51		
	+20	0.31		
	+30	0.53		
	+40	1.16		
	+50	-0.43		
	+55	0.3		
3.7	+25	0.54		
4.35	+25	-0.41		

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	-30	-0.51	±2091.25	Pass
	-20	-0.86		
	-10	-0.57		
	0	-0.33		
	+10	-0.19		
	+20	0.63		
	+30	-0.21		
	+40	-0.94		
	+50	-0.24		
	+55	-0.33		
3.7	+25	-0.36		
4.35	+25	-0.26		

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	-30	-1.39	±2091.25	Pass
	-20	-1.02		
	-10	-0.79		
	0	-3.62		
	+10	-0.46		
	+20	-1.39		
	+30	-0.26		
	+40	-0.2		
	+50	-0.84		
	+55	0.56		
3.7	+25	-0.87		
4.35	+25	-0.09		

LTE Band 7 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-30	-2.82	±6337.5	Pass
	-20	-3.89		
	-10	-5.19		
	0	-1.29		
	+10	-2.05		
	+20	-6.37		
	+30	-5.48		
	+40	-3.32		
	+50	-4.02		
	+55	-2.56		
3.7	+25	-4.73		
4.35	+25	-3.08		

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	-30	-3.45	±6337.5	Pass
	-20	-1.73		
	-10	-1.99		
	0	-4.28		
	+10	-1.85		
	+20	-2.6		
	+30	-1.95		
	+40	-2.88		
	+50	-2.32		
	+55	-3.88		
3.7	+25	-1.86		
4.35	+25	-3.76		

LTE Band 12 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 707.5 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-30	-0.14	±1768.75	Pass
	-20	-0.79		
	-10	-1.04		
	0	-0.82		
	+10	-1.06		
	+20	-1.75		
	+30	-0.86		
	+40	-1.75		
	+50	-0.86		
	+55	-1.24		
3.7	+25	-1.52		
4.35	+25	-0.66		

LTE Band 12 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 707.5 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-30	-0.96	±1768.75	Pass
	-20	-0.23		
	-10	-0.03		
	0	-0.46		
	+10	-0.11		
	+20	-2.32		
	+30	-0.43		
	+40	-0.29		
	+50	-1.2		
	+55	-1.43		
3.7	+25	-0.1		
4.35	+25	-0.37		

LTE Band 13 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 782 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-30	-0.84	±1955	Pass
	-20	-0.89		
	-10	-2.33		
	0	-1.12		
	+10	-0.83		
	+20	-0.72		
	+30	0.01		
	+40	-2.05		
	+50	-1.72		
	+55	-1.67		
3.7	+25	-1.89		
4.35	+25	-0.31		

LTE Band 13 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 782 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-30	-1.29	±1955	Pass
	-20	-1.69		
	-10	0.3		
	0	-1.34		
	+10	-1.12		
	+20	-0.9		
	+30	-0.33		
	+40	0.19		
	+50	-1.89		
	+55	-1.96		
3.7	+25	0.23		
4.35	+25	-0.34		

LTE Band 17 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 710 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-30	1.23	±1775	Pass
	-20	-1.22		
	-10	-0.7		
	0	-1.03		
	+10	-0.21		
	+20	-1.19		
	+30	-1.02		
	+40	0.46		
	+50	1.53		
	+55	0.49		
3.7	+25	0.94		
4.35	+25	0.99		

LTE Band 17 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 710 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-30	0.37	±1775	Pass
	-20	-0.76		
	-10	-0.23		
	0	-1.06		
	+10	-1.54		
	+20	-0.92		
	+30	-0.34		
	+40	-0.1		
	+50	-0.5		
	+55	0.06		
3.7	+25	0.4		
4.35	+25	0.76		

LTE Band 25 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1882.5 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-30	0.53	±4706.25	Pass
	-20	1.2		
	-10	0.59		
	0	2.05		
	+10	0.96		
	+20	1.76		
	+30	-0.13		
	+40	0.99		
	+50	-1.04		
	+55	1.66		
3.7	+25	2.46		
4.35	+25	1.43		

LTE Band 25 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1882.5 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-30	-0.3	±4706.25	Pass
	-20	0.17		
	-10	0.76		
	0	0.16		
	+10	1.52		
	+20	0.2		
	+30	-0.3		
	+40	0.69		
	+50	0.86		
	+55	0.74		
3.7	+25	0.8		
4.35	+25	1.12		

LTE Band 41 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2605 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-30	-0.97	±6512.5	Pass
	-20	0.21		
	-10	-0.04		
	0	0.77		
	+10	0.62		
	+20	2.89		
	+30	-0.89		
	+40	3.6		
	+50	1.39		
	+55	2.73		
3.7	+25	-2.37	±6512.5	Pass
4.35	+25	0.2		

LTE Band 41 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2605 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-30	-1.4	±6512.5	Pass
	-20	-1.59		
	-10	1.03		
	0	2.06		
	+10	0.16		
	+20	0.8		
	+30	1.33		
	+40	3.09		
	+50	2.15		
	+55	1.37		
3.7	+25	-1.97	±6512.5	Pass
4.35	+25	0.84		

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 UE carrier frequency.

Note 3: Test plots please refer to the document "Annex No.:BL-EC18B0415-501 Data Part 3.pdf".

GSM and WCDMA Mode Test Verdict

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
WCDMA Band 2	LCH	14.1	Pass
	MCH	14.2	Pass
	HCH	14.3	Pass
WCDMA Band 5	LCH	15.1	Pass
	MCH	15.2	Pass
	HCH	15.3	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	5.1	Pass
			16-QAM	RB1#0	5.2	Pass
		MCH	QPSK	RB1#0	5.3	Pass
			16-QAM	RB1#0	5.4	Pass
		HCH	QPSK	RB1#0	5.5	Pass
			16-QAM	RB1#0	5.6	Pass
	3 MHz	LCH	QPSK	RB1#0	5.7	Pass
			16-QAM	RB1#0	5.8	Pass
		MCH	QPSK	RB1#0	5.9	Pass
			16-QAM	RB1#0	5.10	Pass
		HCH	QPSK	RB1#0	5.11	Pass
			16-QAM	RB1#0	5.12	Pass
	5 MHz	LCH	QPSK	RB1#0	5.13	Pass
			16-QAM	RB1#0	5.14	Pass
		MCH	QPSK	RB1#0	5.15	Pass
			16-QAM	RB1#0	5.16	Pass
		HCH	QPSK	RB1#0	5.17	Pass
			16-QAM	RB1#0	5.18	Pass
	10 MHz	LCH	QPSK	RB1#0	5.19	Pass
			16-QAM	RB1#0	5.20	Pass
		MCH	QPSK	RB1#0	5.21	Pass
			16-QAM	RB1#0	5.22	Pass
		HCH	QPSK	RB1#0	5.23	Pass
			16-QAM	RB1#0	5.24	Pass
	15 MHz	LCH	QPSK	RB1#0	5.25	Pass
			16-QAM	RB1#0	5.26	Pass
		MCH	QPSK	RB1#0	5.27	Pass
			16-QAM	RB1#0	5.28	Pass
		HCH	QPSK	RB1#0	5.29	Pass
			16-QAM	RB1#0	5.30	Pass
	20 MHz	LCH	QPSK	RB1#0	5.31	Pass
			16-QAM	RB1#0	5.32	Pass
		MCH	QPSK	RB1#0	5.33	Pass
			16-QAM	RB1#0	5.34	Pass
		HCH	QPSK	RB1#0	5.35	Pass
			16-QAM	RB1#0	5.36	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 4	1.4 MHz	LCH	QPSK	RB1#0	6.1	Pass
			16-QAM	RB1#0	6.2	Pass
		MCH	QPSK	RB1#0	6.3	Pass
			16-QAM	RB1#0	6.4	Pass
		HCH	QPSK	RB1#0	6.5	Pass
			16-QAM	RB1#0	6.6	Pass
	3 MHz	LCH	QPSK	RB1#0	6.7	Pass
			16-QAM	RB1#0	6.8	Pass
		MCH	QPSK	RB1#0	6.9	Pass
			16-QAM	RB1#0	6.10	Pass
		HCH	QPSK	RB1#0	6.11	Pass
			16-QAM	RB1#0	6.12	Pass
	5 MHz	LCH	QPSK	RB1#0	6.13	Pass
			16-QAM	RB1#0	6.14	Pass
		MCH	QPSK	RB1#0	6.15	Pass
			16-QAM	RB1#0	6.16	Pass
		HCH	QPSK	RB1#0	6.17	Pass
			16-QAM	RB1#0	6.18	Pass
	10 MHz	LCH	QPSK	RB1#0	6.19	Pass
			16-QAM	RB1#0	6.20	Pass
		MCH	QPSK	RB1#0	6.21	Pass
			16-QAM	RB1#0	6.22	Pass
		HCH	QPSK	RB1#0	6.23	Pass
			16-QAM	RB1#0	6.24	Pass
	15 MHz	LCH	QPSK	RB1#0	6.25	Pass
			16-QAM	RB1#0	6.26	Pass
		MCH	QPSK	RB1#0	6.27	Pass
			16-QAM	RB1#0	6.28	Pass
		HCH	QPSK	RB1#0	6.29	Pass
			16-QAM	RB1#0	6.30	Pass
	20 MHz	LCH	QPSK	RB1#0	6.31	Pass
			16-QAM	RB1#0	6.32	Pass
		MCH	QPSK	RB1#0	6.33	Pass
			16-QAM	RB1#0	6.34	Pass
		HCH	QPSK	RB1#0	6.35	Pass
			16-QAM	RB1#0	6.36	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	7.1	Pass
			16-QAM	RB1#0	7.2	Pass
		MCH	QPSK	RB1#0	7.3	Pass
			16-QAM	RB1#0	7.4	Pass
		HCH	QPSK	RB1#0	7.5	Pass
			16-QAM	RB1#0	7.6	Pass
	3 MHz	LCH	QPSK	RB1#0	7.7	Pass
			16-QAM	RB1#0	7.8	Pass
		MCH	QPSK	RB1#0	7.9	Pass
			16-QAM	RB1#0	7.10	Pass
		HCH	QPSK	RB1#0	7.11	Pass
			16-QAM	RB1#0	7.12	Pass
	5 MHz	LCH	QPSK	RB1#0	7.13	Pass
			16-QAM	RB1#0	7.14	Pass
		MCH	QPSK	RB1#0	7.15	Pass
			16-QAM	RB1#0	7.16	Pass
		HCH	QPSK	RB1#0	7.17	Pass
			16-QAM	RB1#0	7.18	Pass
	10 MHz	LCH	QPSK	RB1#0	7.19	Pass
			16-QAM	RB1#0	7.20	Pass
		MCH	QPSK	RB1#0	7.21	Pass
			16-QAM	RB1#0	7.22	Pass
		HCH	QPSK	RB1#0	7.23	Pass
			16-QAM	RB1#0	7.24	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	8.1	Pass
			16-QAM	RB1#0	8.2	Pass
		MCH	QPSK	RB1#0	8.3	Pass
			16-QAM	RB1#0	8.4	Pass
		HCH	QPSK	RB1#0	8.5	Pass
			16-QAM	RB1#0	8.6	Pass
	10 MHz	LCH	QPSK	RB1#0	8.7	Pass
			16-QAM	RB1#0	8.8	Pass
		MCH	QPSK	RB1#0	8.9	Pass
			16-QAM	RB1#0	8.10	Pass
		HCH	QPSK	RB1#0	8.11	Pass
			16-QAM	RB1#0	8.12	Pass
	15 MHz	LCH	QPSK	RB1#0	8.13	Pass
			16-QAM	RB1#0	8.14	Pass
		MCH	QPSK	RB1#0	8.15	Pass
			16-QAM	RB1#0	8.16	Pass
		HCH	QPSK	RB1#0	8.17	Pass
			16-QAM	RB1#0	8.18	Pass
	20 MHz	LCH	QPSK	RB1#0	8.19	Pass
			16-QAM	RB1#0	8.20	Pass
		MCH	QPSK	RB1#0	8.21	Pass
			16-QAM	RB1#0	8.22	Pass
		HCH	QPSK	RB1#0	8.23	Pass
			16-QAM	RB1#0	8.24	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note2}	Verdict
Band 12	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

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note2}	Verdict
Band 13	5 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
	10 MHz	MCH	QPSK	RB1#0	10.7	Pass
			16-QAM	RB1#0	10.8	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	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
	10 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

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 25	1.4 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
	3 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
	5 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
	10 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
	15 MHz	LCH	QPSK	RB1#0	12.25	Pass
			16-QAM	RB1#0	12.26	Pass
		MCH	QPSK	RB1#0	12.27	Pass
			16-QAM	RB1#0	12.28	Pass
		HCH	QPSK	RB1#0	12.29	Pass
			16-QAM	RB1#0	12.30	Pass
	20 MHz	LCH	QPSK	RB1#0	12.31	Pass
			16-QAM	RB1#0	12.32	Pass
		MCH	QPSK	RB1#0	12.33	Pass
			16-QAM	RB1#0	12.34	Pass
		HCH	QPSK	RB1#0	12.35	Pass
			16-QAM	RB1#0	12.36	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	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
	15 MHz	LCH	QPSK	RB1#0	13.13	Pass
			16-QAM	RB1#0	13.14	Pass
		MCH	QPSK	RB1#0	13.15	Pass
			16-QAM	RB1#0	13.16	Pass
		HCH	QPSK	RB1#0	13.17	Pass
			16-QAM	RB1#0	13.18	Pass
	20 MHz	LCH	QPSK	RB1#0	13.19	Pass
			16-QAM	RB1#0	13.20	Pass
		MCH	QPSK	RB1#0	13.21	Pass
			16-QAM	RB1#0	13.22	Pass
		HCH	QPSK	RB1#0	13.23	Pass
			16-QAM	RB1#0	13.24	Pass

A.6 Band Edge

Note 1: Test plots please refer to the document “Annex No.:BL-EC18B0415-501 Data Part 4.pdf”.

GSM and WCDMA Mode Test Verdict

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
WCDMA Band 2	LCH	5.1	Pass
	HCH	5.2	Pass
WCDMA Band 5	LCH	6.1	Pass
	HCH	6.2	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	7.1	Pass
				RB6#0	7.2	Pass
			16-QAM	RB1#0	7.3	Pass
				RB6#0	7.4	Pass
		HCH	QPSK	RB1#5	7.5	Pass
				RB6#0	7.6	Pass
			16-QAM	RB1#5	7.7	Pass
				RB6#0	7.8	Pass
	3 MHz	LCH	QPSK	RB1#0	7.9	Pass
				RB15#0	7.10	Pass
			16-QAM	RB1#0	7.11	Pass
				RB15#0	7.12	Pass
		HCH	QPSK	RB1#14	7.13	Pass
				RB15#0	7.14	Pass
			16-QAM	RB1#14	7.15	Pass
				RB15#0	7.16	Pass
	5 MHz	LCH	QPSK	RB1#0	7.17	Pass
				RB25#0	7.18	Pass
			16-QAM	RB1#0	7.19	Pass
				RB25#0	7.20	Pass
		HCH	QPSK	RB1#24	7.21	Pass
				RB25#0	7.22	Pass
			16-QAM	RB1#24	7.23	Pass
				RB25#0	7.24	Pass
	10 MHz	LCH	QPSK	RB1#0	7.25	Pass
				RB50#0	7.26	Pass
			16-QAM	RB1#0	7.27	Pass
				RB50#0	7.28	Pass
		HCH	QPSK	RB1#49	7.29	Pass
				RB50#0	7.30	Pass
			16-QAM	RB1#49	7.31	Pass
				RB50#0	7.32	Pass
	15 MHz	LCH	QPSK	RB1#0	7.33	Pass
				RB75#0	7.34	Pass
			16-QAM	RB1#0	7.35	Pass
				RB75#0	7.36	Pass
		HCH	QPSK	RB1#74	7.37	Pass
				RB75#0	7.38	Pass
			16-QAM	RB1#74	7.39	Pass
				RB75#0	7.40	Pass
	20 MHz	LCH	QPSK	RB1#0	7.41	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
			16-QAM	RB100#0	7.42	Pass
				RB1#0	7.43	Pass
				RB100#0	7.44	Pass
		HCH	QPSK	RB1#99	7.45	Pass
				RB100#0	7.46	Pass
			16-QAM	RB1#99	7.47	Pass
				RB100#0	7.48	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	8.1	Pass
				RB6#0	8.2	Pass
			16-QAM	RB1#0	8.3	Pass
				RB6#0	8.4	Pass
		HCH	QPSK	RB1#5	8.5	Pass
				RB6#0	8.6	Pass
			16-QAM	RB1#5	8.7	Pass
				RB6#0	8.8	Pass
	3 MHz	LCH	QPSK	RB1#0	8.9	Pass
				RB15#0	8.10	Pass
			16-QAM	RB1#0	8.11	Pass
				RB15#0	8.12	Pass
		HCH	QPSK	RB1#14	8.13	Pass
				RB15#0	8.14	Pass
			16-QAM	RB1#14	8.15	Pass
				RB15#0	8.16	Pass
	5 MHz	LCH	QPSK	RB1#0	8.17	Pass
				RB25#0	8.18	Pass
			16-QAM	RB1#0	8.19	Pass
				RB25#0	8.20	Pass
		HCH	QPSK	RB1#24	8.21	Pass
				RB25#0	8.22	Pass
			16-QAM	RB1#24	8.23	Pass
				RB25#0	8.24	Pass
	10 MHz	LCH	QPSK	RB1#0	8.25	Pass
				RB50#0	8.26	Pass
			16-QAM	RB1#0	8.27	Pass
				RB50#0	8.28	Pass
		HCH	QPSK	RB1#49	8.29	Pass
				RB50#0	8.30	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
			16-QAM	RB1#49	8.31	Pass
				RB50#0	8.32	Pass
	15 MHz	LCH	QPSK	RB1#0	8.33	Pass
				RB75#0	8.34	Pass
			16-QAM	RB1#0	8.35	Pass
				RB75#0	8.36	Pass
		HCH	QPSK	RB1#74	8.37	Pass
				RB75#0	8.38	Pass
			16-QAM	RB1#74	8.39	Pass
				RB75#0	8.40	Pass
	20 MHz	LCH	QPSK	RB1#0	8.41	Pass
				RB100#0	8.42	Pass
			16-QAM	RB1#0	8.43	Pass
				RB100#0	8.44	Pass
		HCH	QPSK	RB1#99	8.45	Pass
				RB100#0	8.46	Pass
			16-QAM	RB1#99	8.47	Pass
				RB100#0	8.48	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	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

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	10.1	Pass
				RB25#0	10.2	Pass
			16-QAM	RB1#0	10.3	Pass
				RB25#0	10.4	Pass
		HCH	QPSK	RB1#24	10.5	Pass
				RB25#0	10.6	Pass
			16-QAM	RB1#24	10.7	Pass
				RB25#0	10.8	Pass
	10 MHz	LCH	QPSK	RB1#0	10.9	Pass
				RB50#0	10.10	Pass
			16-QAM	RB1#0	10.11	Pass
				RB50#0	10.12	Pass
		HCH	QPSK	RB1#49	10.13	Pass
				RB50#0	10.14	Pass
			16-QAM	RB1#49	10.15	Pass
				RB50#0	10.16	Pass
	15 MHz	LCH	QPSK	RB1#0	10.17	Pass
				RB75#0	10.18	Pass
			16-QAM	RB1#0	10.19	Pass
				RB75#0	10.20	Pass
		HCH	QPSK	RB1#74	10.21	Pass
				RB75#0	10.22	Pass
			16-QAM	RB1#74	10.23	Pass
				RB75#0	10.24	Pass
	20 MHz	LCH	QPSK	RB1#0	10.25	Pass
				RB100#0	10.26	Pass
			16-QAM	RB1#0	10.27	Pass
				RB100#0	10.28	Pass
		HCH	QPSK	RB1#99	10.29	Pass
				RB100#0	10.30	Pass
			16-QAM	RB1#99	10.31	Pass
				RB100#0	10.32	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 12	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 13	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	MCH (left)	QPSK	RB1#0	12.9	Pass
				RB50#0	12.10	Pass
			16-QAM	RB1#0	12.11	Pass
				RB50#0	12.12	Pass
		MCH (right)	QPSK	RB1#49	12.13	Pass
				RB50#0	12.14	Pass
			16-QAM	RB1#49	12.15	Pass
				RB50#0	12.16	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 25	1.4 MHz	LCH	QPSK	RB1#0	14.1	Pass
				RB6#0	14.2	Pass
			16-QAM	RB1#0	14.3	Pass
				RB6#0	14.4	Pass
		HCH	QPSK	RB1#5	14.5	Pass
				RB6#0	14.6	Pass
			16-QAM	RB1#5	14.7	Pass
				RB6#0	14.8	Pass
	3 MHz	LCH	QPSK	RB1#0	14.9	Pass
				RB15#0	14.10	Pass
			16-QAM	RB1#0	14.11	Pass
				RB15#0	14.12	Pass
		HCH	QPSK	RB1#14	14.13	Pass
				RB15#0	14.14	Pass
			16-QAM	RB1#14	14.15	Pass
				RB15#0	14.16	Pass
	5 MHz	LCH	QPSK	RB1#0	14.17	Pass
				RB25#0	14.18	Pass
			16-QAM	RB1#0	14.19	Pass
				RB25#0	14.20	Pass
		HCH	QPSK	RB1#24	14.21	Pass
				RB25#0	14.22	Pass
			16-QAM	RB1#24	14.23	Pass
				RB25#0	14.24	Pass
	10 MHz	LCH	QPSK	RB1#0	14.25	Pass
				RB50#0	14.26	Pass
			16-QAM	RB1#0	14.27	Pass
				RB50#0	14.28	Pass
		HCH	QPSK	RB1#49	14.29	Pass
				RB50#0	14.30	Pass
			16-QAM	RB1#49	14.31	Pass
				RB50#0	14.32	Pass
	15 MHz	LCH	QPSK	RB1#0	14.33	Pass
				RB75#0	14.34	Pass
			16-QAM	RB1#0	14.35	Pass
				RB75#0	14.36	Pass
		HCH	QPSK	RB1#74	14.37	Pass
				RB75#0	14.38	Pass
			16-QAM	RB1#74	14.39	Pass
				RB75#0	14.40	Pass
	20 MHz	LCH	QPSK	RB1#0	14.41	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note1}	Verdict
			16-QAM	RB100#0	14.42	Pass
				RB1#0	14.43	Pass
				RB100#0	14.44	Pass
		HCH	QPSK	RB1#99	14.45	Pass
				RB100#0	14.46	Pass
			16-QAM	RB1#99	14.47	Pass
				RB100#0	14.48	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	15.1	Pass
				RB25#0	15.2	Pass
			16-QAM	RB1#0	15.3	Pass
				RB25#0	15.4	Pass
		HCH	QPSK	RB1#24	15.5	Pass
				RB25#0	15.6	Pass
			16-QAM	RB1#24	15.7	Pass
				RB25#0	15.8	Pass
	10 MHz	LCH	QPSK	RB1#0	15.9	Pass
				RB50#0	15.10	Pass
			16-QAM	RB1#0	15.11	Pass
				RB50#0	15.12	Pass
		HCH	QPSK	RB1#49	15.13	Pass
				RB50#0	15.14	Pass
			16-QAM	RB1#49	15.15	Pass
				RB50#0	15.16	Pass
	15 MHz	LCH	QPSK	RB1#0	15.17	Pass
				RB75#0	15.18	Pass
			16-QAM	RB1#0	15.19	Pass
				RB75#0	15.20	Pass
		HCH	QPSK	RB1#74	15.21	Pass
				RB75#0	15.22	Pass
			16-QAM	RB1#74	15.23	Pass
				RB75#0	15.24	Pass
	20 MHz	LCH	QPSK	RB1#0	15.25	Pass
				RB100#0	15.26	Pass
			16-QAM	RB1#0	15.27	Pass
				RB100#0	15.28	Pass
		HCH	QPSK	RB1#99	15.29	Pass
				RB100#0	15.30	Pass
			16-QAM	RB1#99	15.31	Pass
				RB100#0	15.32	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Refer to Plot ^{Note1}	Verdict
Band 13 (Emission Mask)	5 MHz	LCH	QPSK	RB1#0	16.1	Pass
				RB25#0	16.2	Pass
			16-QAM	RB1#0	16.3	Pass
				RB25#0	16.4	Pass
		HCH	QPSK	RB1#24	16.5	Pass
				RB25#0	16.6	Pass
			16-QAM	RB1#24	16.7	Pass
				RB25#0	16.8	Pass
	10 MHz	MCH (left)	QPSK	RB1#0	16.9	Pass
				RB50#0	16.10	Pass
			16-QAM	RB1#0	16.11	Pass
				RB50#0	16.12	Pass
		MCH (right)	QPSK	RB1#49	16.13	Pass
				RB50#0	16.14	Pass
			16-QAM	RB1#49	16.15	Pass
				RB50#0	16.16	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 UE carrier frequency.

Note 3: Test plots please refer to the document "Annex No.:BL-EC18B0415-501 Data Part 5.pdf".

GSM and WCDMA Mode Test Verdict

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
WCDMA Band 2	LCH	5.1	Pass
	MCH	5.2	Pass
	HCH	5.3	Pass
WCDMA Band 5	LCH	6.1	Pass
	MCH	6.2	Pass
	HCH	6.3	Pass

LTE Mode Test Verdict

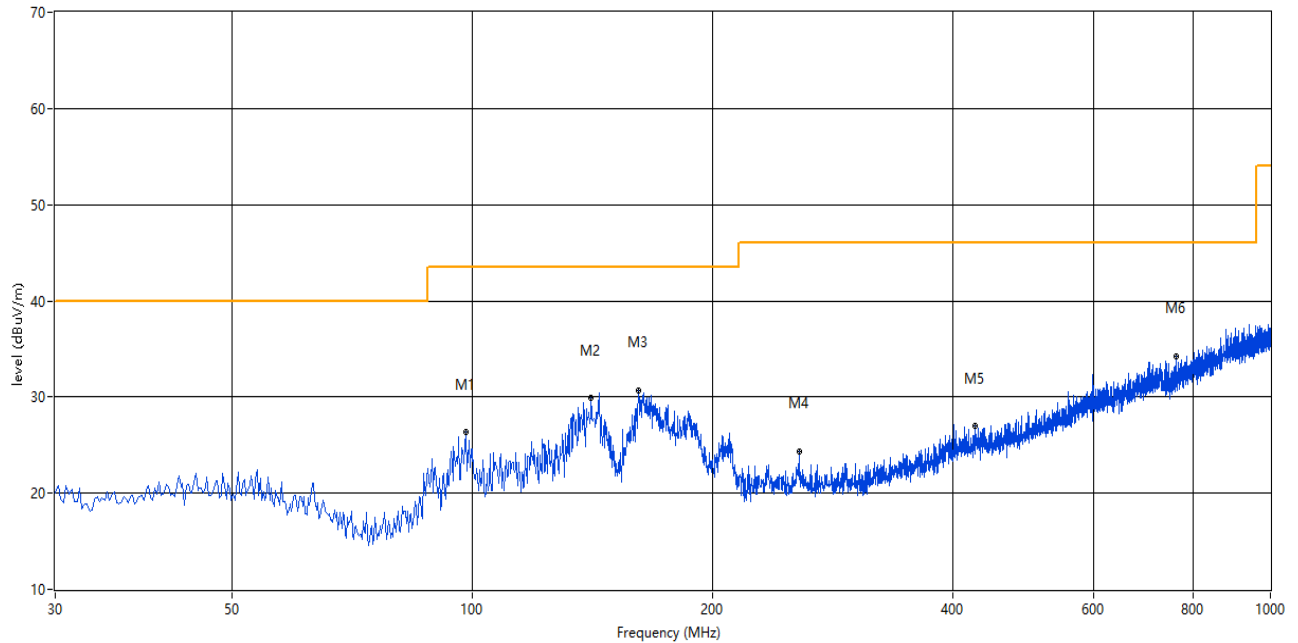
Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
Band 2	1.4 MHz	MCH	QPSK	RB1#0	7.1	Pass
	3 MHz	MCH	QPSK	RB1#0	7.2	Pass
	5 MHz	MCH	QPSK	RB1#0	7.3	Pass
	10 MHz	MCH	QPSK	RB1#0	7.4	Pass
	15 MHz	MCH	QPSK	RB1#0	7.5	Pass
	20 MHz	MCH	QPSK	RB1#0	7.6	Pass
Band 4	1.4 MHz	MCH	QPSK	RB1#0	8.1	Pass
	3 MHz	MCH	QPSK	RB1#0	8.2	Pass
	5 MHz	MCH	QPSK	RB1#0	8.3	Pass
	10 MHz	MCH	QPSK	RB1#0	8.4	Pass
	15 MHz	MCH	QPSK	RB1#0	8.5	Pass
	20 MHz	MCH	QPSK	RB1#0	8.6	Pass
Band 5	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
Band 7	5 MHz	MCH	QPSK	RB1#0	10.1	Pass
	10 MHz	MCH	QPSK	RB1#0	10.2	Pass
	15 MHz	MCH	QPSK	RB1#0	10.3	Pass
	20 MHz	MCH	QPSK	RB1#0	10.4	Pass
Band 12	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 13	5 MHz	MCH	QPSK	RB1#0	12.1	Pass
	10 MHz	MCH	QPSK	RB1#0	12.2	Pass
Band 17	5 MHz	MCH	QPSK	RB1#0	13.1	Pass
	10 MHz	MCH	QPSK	RB1#0	13.2	Pass
Band 25	1.4 MHz	MCH	QPSK	RB1#0	14.1	Pass
	3 MHz	MCH	QPSK	RB1#0	14.2	Pass
	5 MHz	MCH	QPSK	RB1#0	14.3	Pass
	10 MHz	MCH	QPSK	RB1#0	14.4	Pass
	15 MHz	MCH	QPSK	RB1#0	14.5	Pass
	20 MHz	MCH	QPSK	RB1#0	14.6	Pass
Band 41	5 MHz	MCH	QPSK	RB1#0	15.1	Pass
	10 MHz	MCH	QPSK	RB1#0	15.2	Pass
	15 MHz	MCH	QPSK	RB1#0	15.3	Pass
	20 MHz	MCH	QPSK	RB1#0	15.4	Pass

A.8 Receiver Spurious Emissions

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

GSM 850 30MHz to 1GHz, ANT H

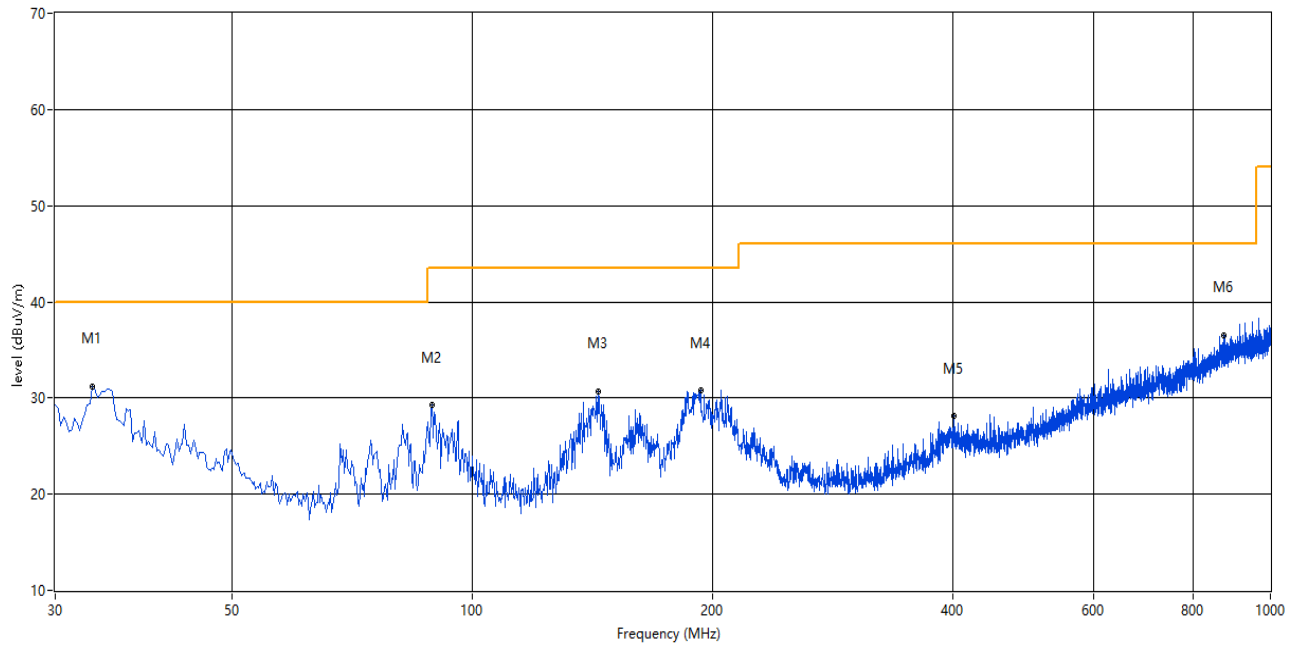
REmission Test case_FCC_IC_IC_Receive_30MHz-1GHz



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
98.125	26.37	--	--	-28.98	--	43.5	--	17.13	199.10	150	Horizontal	Pass
140.795	29.92	--	--	-32.08	--	43.5	--	13.58	32.10	150	Horizontal	Pass
161.645	30.71	--	--	-31.47	--	43.5	--	12.79	360.00	150	Horizontal	Pass
256.681	24.40	--	--	-27.17	--	46.0	--	21.60	223.60	150	Horizontal	Pass
426.146	26.97	--	--	-23.35	--	46.0	--	19.03	188.50	150	Horizontal	Pass
760.955	34.21	--	--	-16.44	--	46.0	--	11.79	26.70	150	Horizontal	Pass

GSM 850 30MHz to 1GHz, ANT V

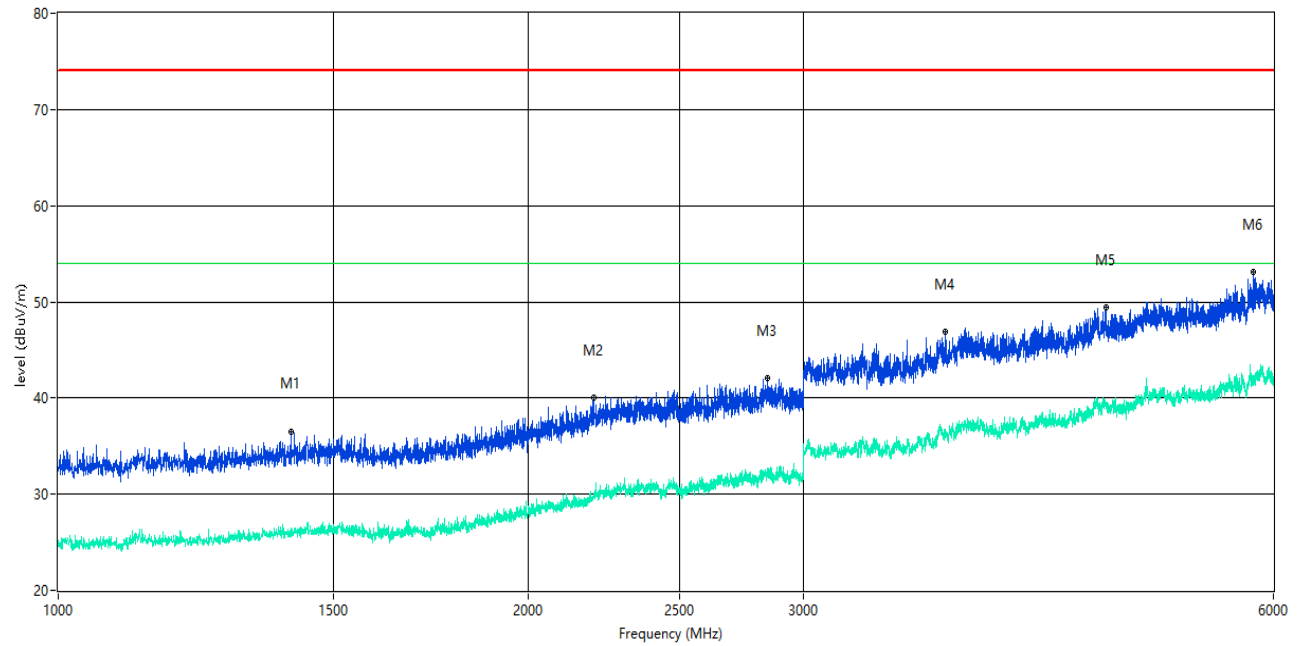
REmission Test case_FCC_IC_IC_Receive_30MHz-1GHz



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
33.394	31.20	--	--	-28.58	--	40.0	--	8.80	319.70	150	Vertical	Pass
88.913	29.24	--	--	-30.67	--	43.5	--	14.26	249.60	150	Vertical	Pass
143.947	30.71	--	--	-32.06	--	43.5	--	12.79	57.50	150	Vertical	Pass
193.162	30.78	--	--	-29.26	--	43.5	--	12.72	293.00	150	Vertical	Pass
400.932	28.08	--	--	-24.15	--	46.0	--	17.92	123.00	150	Vertical	Pass
873.689	36.49	--	--	-14.05	--	46.0	--	9.51	200.90	150	Vertical	Pass

GSM 850 1GHz to 6GHz, ANT H

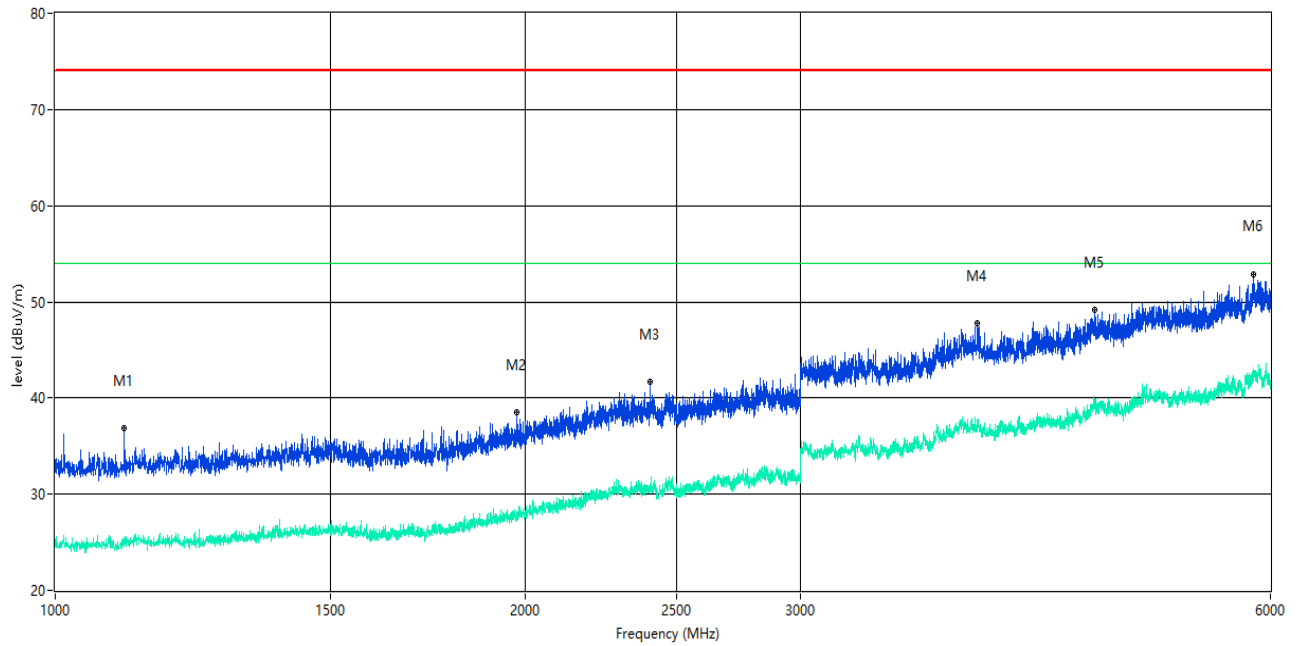
REmission Test case_FCC_IC_Receive 1-6GHz



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
1409.898	36.52	--	26.4	-15.23	74.0	--	54.0	27.60	271.00	150	Horizontal	Pass
2201.200	40.04	--	29.8	-10.72	74.0	--	54.0	24.20	197.00	150	Horizontal	Pass
2844.039	42.01	--	32.0	-7.99	74.0	--	54.0	22.00	340.00	150	Horizontal	Pass
3699.575	46.89	--	36.7	-3.47	74.0	--	54.0	17.30	31.00	150	Horizontal	Pass
4687.828	49.39	--	39.3	-0.15	74.0	--	54.0	14.70	152.00	150	Horizontal	Pass
5829.043	53.10	--	41.5	2.97	74.0	--	54.0	12.50	51.00	150	Horizontal	Pass

GSM 850 1GHz to 6GHz, ANT V

REmission Test case_FCC_IC_Receive 1-6GHz



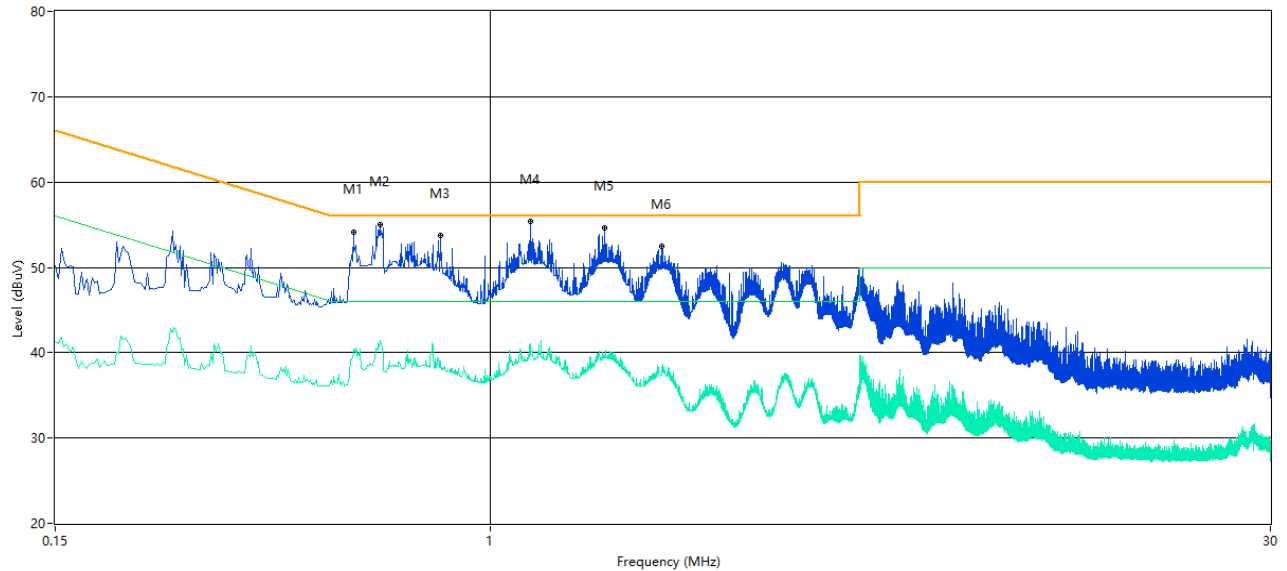
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	ANT	Verdict
1107.473	36.83	--	25.3	-14.56	74.0	--	54.0	28.70	4.00	150	Vertical	Pass
1976.256	38.56	--	28.3	-12.83	74.0	--	54.0	25.70	309.00	150	Vertical	Pass
2403.649	41.73	--	31.0	-9.72	74.0	--	54.0	23.00	163.00	150	Vertical	Pass
3893.027	47.75	--	36.4	-2.96	74.0	--	54.0	17.60	284.00	150	Vertical	Pass
4628.593	49.18	--	39.9	0.01	74.0	--	54.0	14.10	172.00	150	Vertical	Pass
5853.787	52.84	--	42.7	3.41	74.0	--	54.0	11.30	28.00	150	Vertical	Pass

A.9 AC Power-line Conducted Emissions

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

L Phase

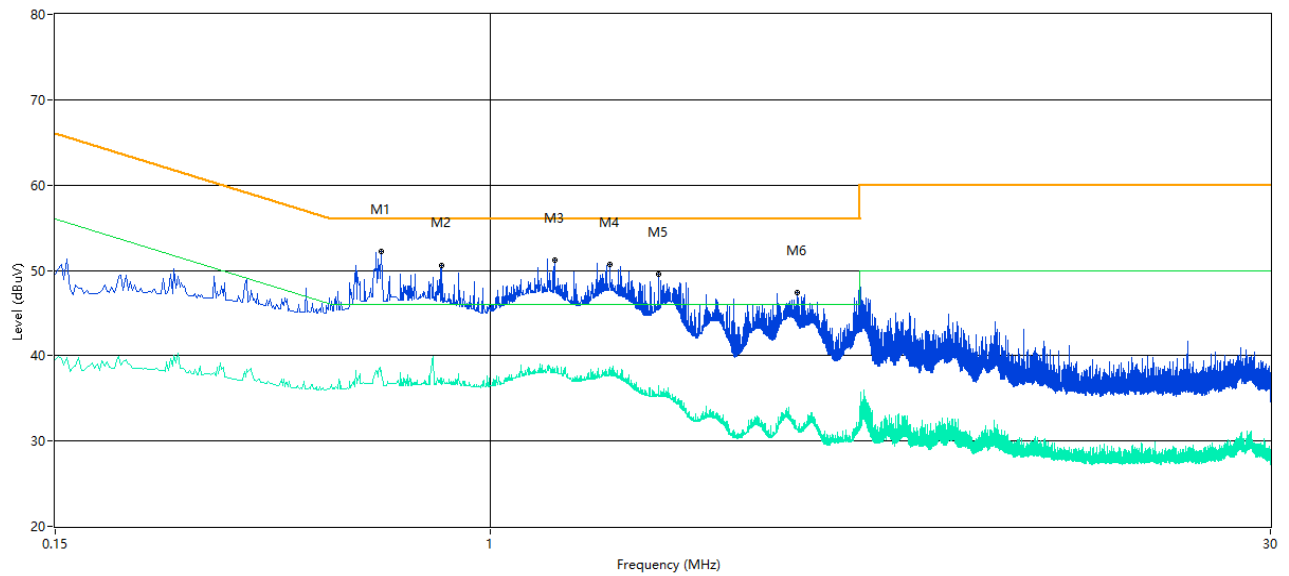
CEmission Test case_FCC_CE_FCC PART 15B_Class B



Frequency (MHz)	Peak Level (dBuV)	Q-peak Level (dBuV)	Average Level (dBuV)	Factor (dB)	QP Limit (dBuV)	AV Limit (dBuV)	Margin (dB)	Line	Verdict
0.550	51.97	47.19	37.75	10.54	56.0	46.0	8.25	L Line	Pass
0.618	55.08	51.65	39.28	10.53	56.0	46.0	4.35	L Line	Pass
0.804	51.87	47.04	33.75	10.54	56.0	46.0	8.96	L Line	Pass
1.190	52.91	47.96	37.32	10.55	56.0	46.0	8.04	L Line	Pass
1.642	52.05	47.01	35.72	10.55	56.0	46.0	8.99	L Line	Pass
2.114	51.57	45.31	35.07	10.55	56.0	46.0	10.69	L Line	Pass

N Phase

CÉmission Test case_FCC_CE_FCC PART 15B_ Class B



Frequency (MHz)	Peak Level (dBuV)	Q-peak Level (dBuV)	Average Level (dBuV)	Factor (dB)	QP Limit (dBuV)	AV Limit (dBuV)	Margin (dB)	Line	Verdict
0.622	51.04	47.41	32.37	10.53	56.0	46.0	8.59	N Line	Pass
0.810	46.33	41.33	26.78	10.54	56.0	46.0	14.67	N Line	Pass
1.324	45.86	39.66	26.87	10.54	56.0	46.0	16.34	N Line	Pass
1.686	47.34	42.39	30.56	10.55	56.0	46.0	13.61	N Line	Pass
2.080	47.06	40.90	29.99	10.55	56.0	46.0	15.10	N Line	Pass
3.810	46.94	39.30	26.81	10.58	56.0	46.0	16.70	N Line	Pass

ANNEX B TEST SETUP PHOTOS

Please refer to the document "BL-EC18B0415-AR-2.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document "BL-EC18B0415-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer to the document "BL-EC18B0415-AI.PDF".

--END OF REPORT--