

FCC

RF

TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
LTE Digital Mobile Handset

ISSUED TO
ZTE Corporation

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District,
Shenzhen, Guangdong, P. R. China



Tested by: Tu Lang
Tu Lang
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Date: Jun. 16, 2016

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)

Date: Jun. 16, 2016

Report No.: BL-SZ1650193-501
EUT Type: LTE Digital Mobile Handset
Model Name: BGH Joy A20
Brand Name: ZTE
Test Standard: 47 CFR Part 2 (10-1-15 Edition)
FCC ID: SRQ-A210

Test conclusion: Pass
Test Date: May 17, 2016 ~ Jun. 16, 2016
Date of Issue: Jun. 16, 2016

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions</u>
<u>Rev. 01</u>	<u>Jun. 12, 2016</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Jun. 16, 2016</u>	<u>Added the OBW at all bandwidth for per LTE band and mode in section A.3.</u>
<u> </u>	<u> </u>	<u> </u>

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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
Fax Number	+86 755 6182 4271

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	<p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625.</p> <p>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.</p>
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	22 to 28°C
Ambient Relative Humidity	40% - 60%
Ambient Pressure	99 kPa - 102 kPa

1.4 Announce

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

prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant

Applicant	ZTE Corporation
Address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P. R. China

2.2 Manufacturer

Manufacturer	ZTE Corporation
Address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P. R. China

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Type	LTE Digital Mobile Handset
Model Name	BGH Joy A20
Series Model Name	BGH Joy A20, ZTE Blade A210
Description of Model name differentiation	The equipment model BGH Joy A20 and ZTE Blade A210 are the LTE Digital Mobile Handset model, the electrical parameters and internal structure of circuit are same, only the model name is different.
Hardware Version	BGH_JOY_A20_V1AMB_B
Software Version	BGH_Joy_A20_ARMovistar_1.01
Dimensions (Approx.)	134.8*67.5*10.15 mm
Weight (Approx.)	150 g
Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 MHz 3G Network WCDMA HSDPA/HSUPA/HSPA+ Band 2/4/5 4G Network FDD LTE Band 2/4/7/12/17/28 Bluetooth 3.0, Bluetooth 4.0, GPS, FM, GLONASS, WIFI 802.11b, 802.11g, 802.11n20, 802.11 n40
About the Product	The equipment is LTE Digital Mobile Handset, intended for used with information technology equipment.

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	515063AR
	Model No.	Li3822T43P3h675053
	Serial No.	N/A
	Capacitance	2200 mAh
	Rated Voltage	3.8 V
Ancillary Equipment 2	Charger	
	Brand Name	Ruide

	Model No.	STC-A51-D
	Rated Input	100-240 V~, 200 mA, 50/60 Hz
	Rated Output	5 V=, 1 A
Ancillary Equipment 3	USB Cable	
	Length(Approx.)	700 mm
Ancillary Equipment 4	Earphone	
	Length(Approx.)	1.2 m

2.6 Technical Information

Frequency Bands	GSM/GPRS/EGPRS 850/1900 WCDMA/HSDPA/HSUPA Band 2/Band 4/Band 5 LTE FDD Band 2/Band 4/Band 7/Band 12/ Band 17/ Band 28	
Modulation Type	GSM	GMSK
	GPRS	GMSK
	EGPRS	8PSK
	WCDMA	QPSK
	HSDPA	QPSK
		16QAM
	HSUPA	QPSK
		16QAM
LTE	QPSK	
	16QAM	
TX Frequency Range	GSM/GPRS/EGPRS 850: 824 - 849 MHz GSM/GPRS/EGPRS 1900: 1850 - 1910 MHz WCDMA/HSDPA/HSUPA Band 2: 1850 -1910 MHz WCDMA/HSDPA/HSUPA Band 4: 1710 - 1755 MHz WCDMA/HSDPA/HSUPA Band 5: 824 - 849 MHz LTE Band 2: 1850 - 1910 MHz LTE Band 4: 1710 - 1755 MHz LTE Band 7: 2500 - 2570 MHz LTE Band 12: 699- 716 MHz LTE Band 17: 704- 716 MHz LTE Band 28: 703- 748 MHz	
Rx Frequency Range	GSM/GPRS/EGPRS 850: 869 - 894 MHz GSM/GPRS/EGPRS 1900: 1930 - 1990 MHz WCDMA/HSDPA/HSUPA Band 2: 1930 - 1990 MHz WCDMA/HSDPA/HSUPA Band 4: 2110 - 2155 MHz WCDMA/HSDPA/HSUPA Band 5: 869 - 894 MHz LTE Band 2: 1930 - 1990 MHz LTE Band 4: 2110 - 2155 MHz LTE Band 7: 2620 - 2690 MHz LTE Band 12: 729- 746 MHz LTE Band 17: 734- 746 MHz LTE Band 28: 758- 803 MHz	
Power Class	GSM/GPRS 850: 4 GSM/GPRS 1900: 1	

	EGPRS 850: E2 EGPRS 1900: E2 WCDMA/HSDPA/HSUPA Band 2: 3 WCDMA/HSDPA/HSUPA Band 4: 3 WCDMA/HSDPA/HSUPA Band 5: 3 LTE Band 2: 3 LTE Band 4: 3 LTE Band 7: 3 LTE Band 12: 3 LTE Band 17: 3 LTE Band 28: 3
Multislot Class	GPRS: 12, EGPRS: 12
Antenna Type	PIFA Antenna
Antenna Gain	GSM/GPRS/EGPRS 850: 0.16 dBi GSM/GPRS/EGPRS 1900: 0.6 dBi WCDMA/HSDPA/HSUPA Band 2: 0.6 dBi WCDMA/HSDPA/HSUPA Band 4: 0.8 dBi WCDMA/HSDPA/HSUPA Band 5: 0.16 dBi LTE Band 2: 0.6 dBi LTE Band 4: 0.8 dBi LTE Band 7: -2.5 dBi LTE Band 12: -2.5 dBi LTE Band 17: -2.5 dBi LTE Band 28: -2.5 dBi

Note: The above EUT information in section 2.4 and 2.6 was declared by manufacturer and 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 (10-1-15 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 (10-1-15 Edition)	Public Mobile Services
3	47 CFR Part 24 (10-1-15 Edition)	Personal Communications Services
4	47 CFR Part 27 (10-1-15 Edition)	Miscellaneous Wireless Communications Services
5	TIA/EIA 603.D-2010	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
6	KDB 971168 D01 v02r02	Measurement Guidance For Certification of Licensed Digital Transmitters

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Conducted RF Output Power	2.1046	Reporting only (Show in ANNEX A.1)	Pass
2	Effective (Isotropic) Radiated Power	2.1046 22.913 24.232 27.50(d) 27.50(h)	ANNEX A.1	Pass
3	Peak to average ratio	2.0146 24.232 27.50(d)	ANNEX A.2	Pass
4	Occupied Bandwidth	2.1049 22.917 24.238 27.53(h) 27.53(m)	ANNEX A.3	Pass
5	Frequency Stability	2.1055 22.355 24.235 27.54	ANNEX A.4	Pass
6	Spurious Emission at Antenna Terminals	2.1051 22.917 24.238 27.53(h) 27.53(m)	ANNEX A.5	Pass
7	Band Edge	2.1051 22.917 24.238 27.53(h) 27.53(m)	ANNEX A.6	Pass
8	Field Strength of Spurious Radiation	2.1053 22.917 24.238 27.53(h) 27.53(m)	ANNEX A.7	Pass

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	40% - 60%	
Atmospheric Pressure	99 kPa -102 kPa	
Temperature	NT (Normal Temperature)	+22 to +28°C
Working Voltage of the EUT	NV (Normal Voltage)	3.8 V
	LV (Low Voltage)	3.6 V
	HV (High Voltage)	4.35 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2015.07.16	2016.07.15
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	177746	2015.07.16	2016.07.15
Signal Generator	ROHDE&SCHWARZ	SMB100A	260592	2015.07.01	2016.06.30
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2015.07.16	2016.07.15
Spectrum Analyzer	AGILENT	E4440A	MY45304434	2014.10.18	2016.10.17
Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU 200	123666	2015.07.01	2016.06.30
Wireless Communications Test Set	ROHDE&SCHWARZ	CMW 500	138884	2015.07.01	2016.06.30
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2015.07.14	2016.07.13
LISN	SCHWARZBECK	NSLK 8127	8127-687	2015.07.14	2016.07.13
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2015.07.16	2016.07.15
Power Splitter	KMW	DCPD-LDC	1305003215	2015.07.01	2016.06.30
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2015.07.21	2016.07.20
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	18141664	2015.07.17	2016.07.16
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2015.08.07	2016.08.06
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2015.07.22	2017.07.21
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2015.07.22	2017.07.21
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2015.07.22	2017.07.21
Test Antenna-Horn(15-26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2015.07.22	2017.07.21
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2015.02.28	2017.02.27

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Shielded Enclosure	ChangNing	CN-130701	130703	--	--

4.3 Test Configurations

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
E.R.P/E.I.R.P	GSM 850	v	v	v
	GSM 1900	v	v	v
	GPRS 850	v	v	v
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 4	v	v	v
	WCDMA Band 5	v	v	v
	HSUPA Band 2	v	v	v
	HSUPA Band 4	v	v	v
	HSUPA Band 5	v	v	v
	HSDPA Band 2	v	v	v
	HSDPA Band 4	v	v	v
	HSDPA Band 5	v	v	v
Peak to Average Ratio	WCDMA Band 2	v	v	v
	WCDMA Band 4	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 4	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 4	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 4	v	v	v

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
	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 4	v	--	v
	WCDMA Band 5	v	--	v
Field Strength of Spurious Radiation	GSM 850	v	v	v
	GSM 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 4	v	v	v
	WCDMA Band 5	v	v	v

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

Test Items	LTE Band	Bandwidth (MHz)						Modulation		RB#			Test Channel		
		1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
E.R.P/E.I .R.P	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	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
	17	n	n	v	v	n	n	v	v	v	v	v	v	v	v
	28	n	v	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
	7	n	n	--	--	--	v	v	v	v	--	v	v	v	v
	12	--	--	--	v	n	n	v	v	v	--	v	v	v	v
	17	n	n	--	v	n	n	v	v	v	--	v	v	v	v
	28	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
	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
	17	n	n	v	v	n	n	v	v	--	--	v	v	v	v
	28	n	v	v	v	v	v	v	v	--	--	v	v	v	v
Frequency Stability	2	--	--	--	v	--	--	v	v	--	--	v	--	v	--
	4	--	--	--	v	--	--	v	v	--	--	v	--	v	--
	7	n	n	--	v	--	--	v	v	--	--	v	--	v	--
	12	--	--	--	v	n	n	v	v	--	--	v	--	v	--
	17	n	n	--	v	n	n	v	v	--	--	v	--	v	--
	28	n	--	--	v	--	--	v	v	--	--	v	--	v	--
Spurious Emission at Antennas	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
	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
	17	n	n	v	v	n	n	v	v	v	--	--	v	v	v
	28	n	v	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
	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
	17	n	n	v	v	n	n	v	v	v	--	v	v	--	v
	28	n	v	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	--
	7	n	n	v	v	v	v	v	--	v	--	--	--	v	--
	12	v	v	v	v	n	n	v	--	v	--	--	--	v	--

17	n	n	v	v	n	n	v	--	v	--	--	--	v	--
28	n	v	v	v	v	v	v	--	v	--	--	--	v	--

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

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

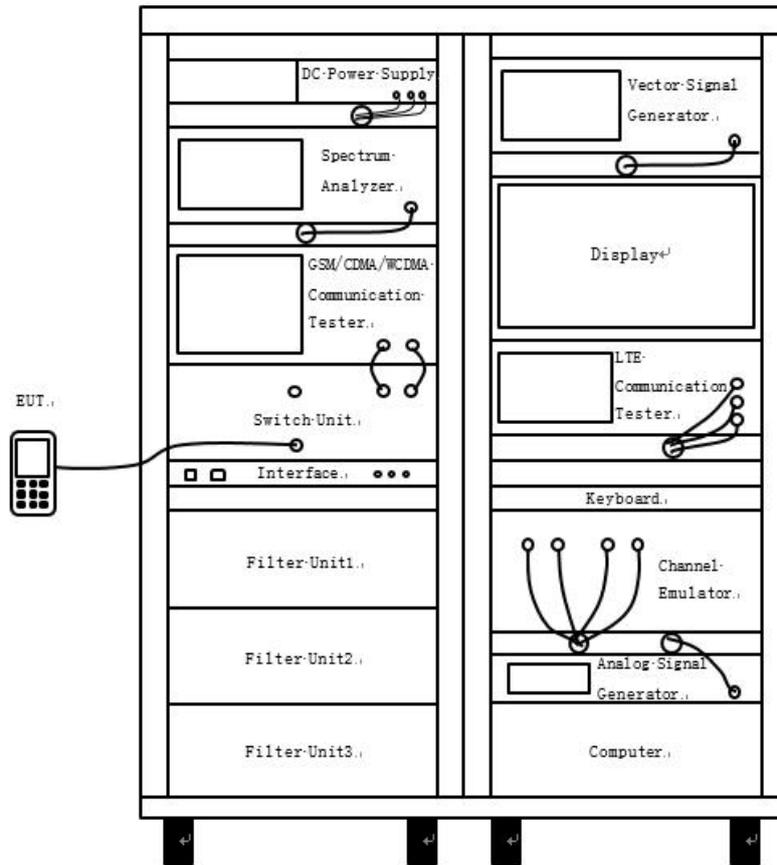
Test Mode	UL Channel	UL Channel No.	UL Frequency (MHz)
GSM/GPRS/EGPRS 850	LCH	128	824.2
	MCH	190	836.6
	HCH	251	848.8
GSM/GPRS/EGPRS 1900	LCH	512	1850.2
	MCH	661	1880.0
	HCH	810	1909.8
WCDMA Band 2	LCH	9262	1852.4
	MCH	9400	1880.0
	HCH	9538	1907.6
WCDMA Band 4	LCH	1312	1712.4
	MCH	1412	1732.4
	HCH	1513	1752.6
WCDMA Band 5	LCH	4132	826.4
	MCH	4182	836.4
	HCH	4233	846.6

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 2	Low Range	1.4	18607	1850.7
		3	18615	1851.5
		5	18625	1852.5
		10	18650	1855
		15	18675	1857.5
		20	18700	1860
	Mid Range	1.4/3/5/10/15/20	18900	1880
	High Range	1.4	19193	1909.3
		3	19185	1908.5
		5	19175	1907.5
		10	19150	1905
		15	19125	1902.5
20		19100	1900	
LTE Band 4	Low Range	1.4	19957	1710.7
		3	19965	1711.5
		5	19975	1712.5
		10	20000	1715
		15	20025	1717.5
		20	20050	1720
	Mid Range	1.4/3/5/10/15/20	20175	1732.5
	High Range	1.4	20393	1754.3
		3	20385	1753.5
		5	20375	1752.5
		10	20350	1750
		15	20325	1747.5

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
		20	20300	1745
LTE Band 7	Low Range	5	20775	2502.5
		10	20800	2505
		15	20825	2507.5
		20	20850	2510
		5/10/15/20	21100	2535
	Mid Range	5	21425	2567.5
		10	21400	2565
		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
	Mid 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 17	Low Range	5	23755	706.5
		10	23780	709
	Mid Range	5/10	23790	710
	High Range	5	23825	713.5
		10	23800	711
LTE Band 28	Low Range	3	27225	704.5
		5	27235	705.5
		10	27260	708
		15	27285	710.5
		20	27310	713
	Mid Range	3	27375	719.5
		5	27385	720.5
		10	27410	723
		15	27435	725.5
		20	27460	728
	High Range	3	27645	746.5
		5	27635	745.5
		10	27610	743
		15	27585	740.5
		20	27560	738

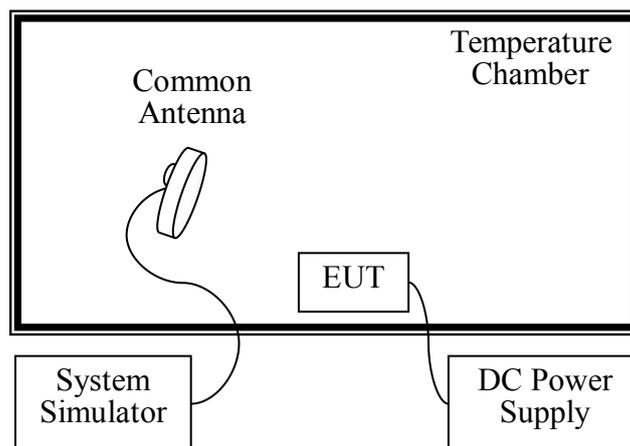
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



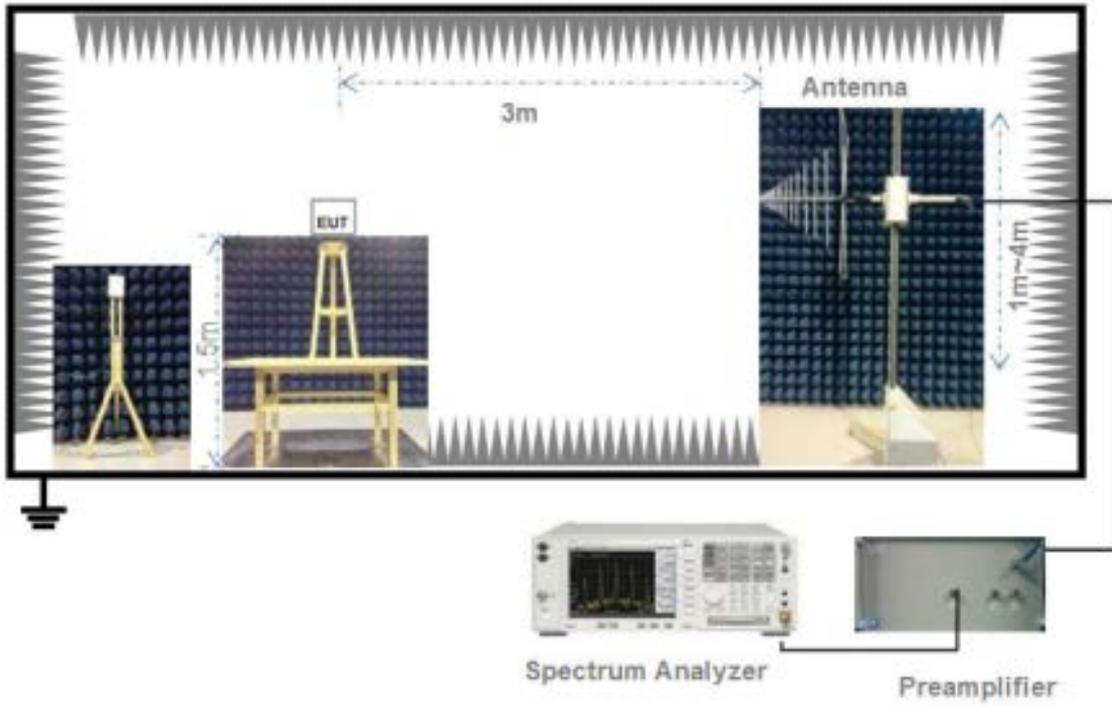
(Diagram 1)

4.4.2 For Frequency Stability Test



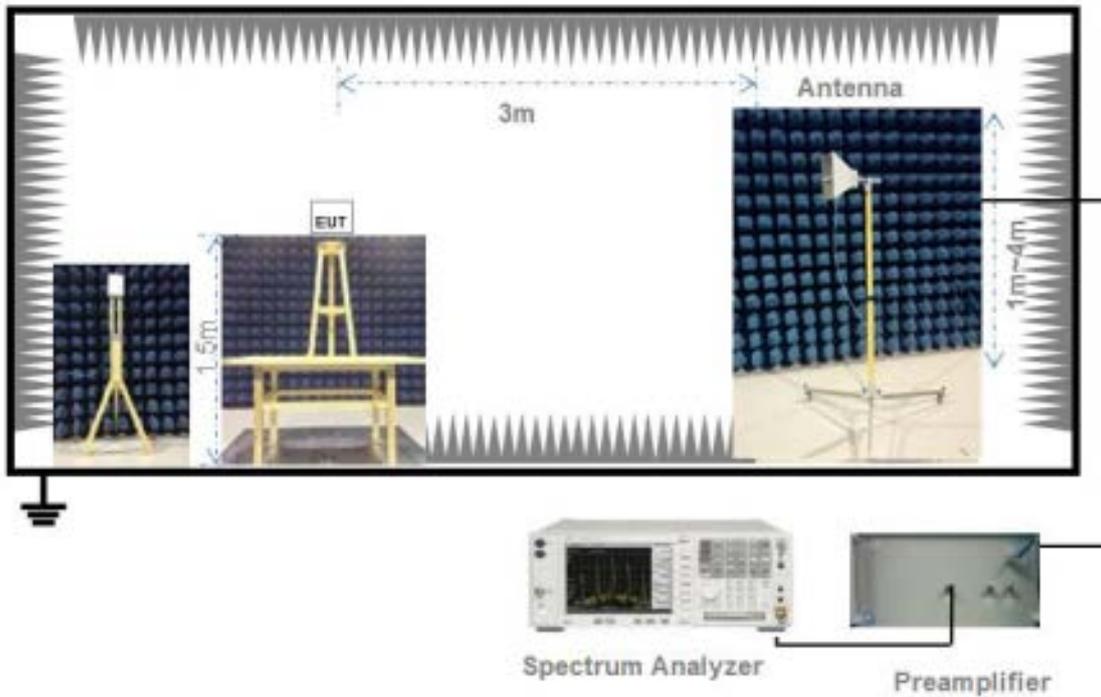
(Diagram 2)

4.4.3 For Radiated Test (30 MHz-1 GHz)



(Diagram 3)

4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

5 TEST ITEMS

5.1 Transmitter Radiated Power (EIRP/ERP)

5.1.1 Limit

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

According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts, FCC section 24.232, 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.

FCC section 27.50(d), 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, and FCC section 27.50(h) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

RSS-132 §5.4 and RSS-133 §6.4

According to RSS-132 §5.4, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 11.5Watts, and RSS-133 §6.4, the broadband PCS mobile station is limited to 2Watts e.i.r.p. peak power.

5.1.2 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.

5.1.3 Test Procedure

Description of the Conducted Output Power Measurement

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

Note: Reference test setup 4.4.1 (Diagram 1)

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).

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the

guidance provided above is:

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

where:

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

PMeas = measured transmitter output power or PSD, in dBm or dBW;

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

$$\text{dBd (ERP)} = \text{dBi} - 2.15$$

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.

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

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Peak to average ratio

5.2.1 Limit

FCC § 2.1046 & 24.232 & 27.50(d)

IC RSS-132 5.4 & RSS-133 6.4 & RSS-139 6.5

In addition, 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.

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.

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.

5.2.2 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.

5.2.3 Test Procedure

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

Test procedures:

- 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%.

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

$$\text{PAPR (dB)} = \text{PPk (dBm)} - \text{PAvg (dBm)}.$$

Note: Reference test setup 4.4.1 (Diagram 1).

5.2.4 Test Result

Please refer to ANNEX A.2.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC § 2.1049

IC RSS-Gen 4.6

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

Occupied bandwidth is also known as the 99% emission bandwidth

5.3.2 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.

5.3.3 Test Procedure

The following procedure shall be used for measuring (99 %) 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 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) Set the detection mode to peak, and the trace mode to max hold..
- f) Use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.
- g) 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) 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).

Note: Reference test setup 4.4.1 (Diagram 1).

5.3.4 Test Result

Please refer to ANNEX A.3.

5.4 Frequency Stability

5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235 & 27.54

IC RSS-Gen 4.7 & RSS-132 4.3 & RSS-133 6.3 & RSS-139 6.4 & RSS-199 4.3 § 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

& 24.235

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

& 27.54

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

The test conditions are:

- (a) The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. 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.

5.4.2 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.

5.4.3 Test Procedure

1. The test is performed in a Temperature Chamber.
2. The EUT is configured as MS + DC Power Supply.

Note: Reference test setup 4.4.2 (Diagram 2).

5.4.4 Test Result

Please refer to ANNEX A.4.

5.5 Spurious Emission at Antenna Terminals

5.5.1 Limit

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

IC RSS-Gen 4.9 & RSS-132 4.3 & RSS-133 6.5 & RSS-139 6.5 & RSS-199 4.6

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 calculated to be -13 dBm.

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)

IC RSS-199 4.6

For mobile digital 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).

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 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 emission are attenuated at least 26 dB below the transmitter power.

Note: Reference test setup 4.4.1 (Diagram 1).

5.5.4 Test Result

Please refer to ANNEX A.5.

5.6 Band Edge

5.6.1 Limit

FCC § 2.1051 & 22.917(b) & 24.238(b) & 27.53(h) & 27.53(m)

IC RSS-132 4.5 & RSS-133 6.5 & RSS-139 6.5 & RSS-199 4.6

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

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 (26 dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

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

5.6.2 Test Setup

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

5.6.3 Test Procedure

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

1. The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.
2. The center of the spectrum analyzer was set to block edge frequency.

Note: Reference test setup 4.4.1 (Diagram 1).

5.6.4 Test Result

Please refer to ANNEX A.6.

5.7 Field Strength of Spurious Radiation

5.7.1 Limit

FCC § 2.1053 & 22.917 & 24.238

IC RSS-Gen 4.9 & RSS-132 4.5 & RSS-133 6.5 & RSS-139 6.6

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 calculated to be -13 dBm.

FCC § 27.53(h)

(1) General protection levels. 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.

(2) Additional protection levels. Notwithstanding the foregoing paragraph (h)(1) of this section:

(i) Operations in the 2180-2200 MHz band are subject to the out-of-band emission requirements set forth in § 27.1134 for the protection of federal government operations operating in the 2200-2290 MHz band.

(ii) For operations in the 2000-2020 MHz band, the power of any emissions below 2000 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.

(iii) For operations in the 1915-1920 MHz band, the power of any emission between 1930-1995 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.

(iv) For operations in the 1995-2000 MHz band, the power of any emission between 2005-2020 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.

FCC § 27.53(m)

IC RSS-199 4.6

For mobile digital 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).

5.7.2 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.

5.7.3 Test Procedure

1. On a test site, the EUT shall be placed at 80cm 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.

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

5.7.4 Test Result

Please refer to ANNEX A.7.

ANNEX A TEST RESULT

A.1 Transmitter Radiated Power (EIRP/ERP)

GSM Mode Test Data

Test Band	Test Channel	Conducted Output Peak Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
GSM 850	LCH	32.90	0.16	-1.99	30.91	1.23	7.00	Pass
	MCH	32.96	0.16	-1.99	30.97	1.25	7.00	Pass
	HCH	32.96	0.16	-1.99	30.97	1.25	7.00	Pass
GPRS 850	LCH	33.90	0.16	-1.99	31.91	1.55	7.00	Pass
	MCH	33.87	0.16	-1.99	31.88	1.54	7.00	Pass
	HCH	33.89	0.16	-1.99	31.90	1.55	7.00	Pass
EGPRS 850	LCH	30.63	0.16	-1.99	28.64	0.73	7.00	Pass
	MCH	30.56	0.16	-1.99	28.57	0.72	7.00	Pass
	HCH	30.69	0.16	-1.99	28.70	0.74	7.00	Pass

Test Band	Test Channel	Conducted Output Peak Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
GSM 1900	LCH	29.91	0.6	30.51	1.12	2.00	Pass
	MCH	30.01	0.6	30.61	1.15	2.00	Pass
	HCH	30.10	0.6	30.70	1.17	2.00	Pass
GPRS 1900	LCH	30.90	0.6	31.50	1.41	2.00	Pass
	MCH	30.95	0.6	31.55	1.43	2.00	Pass
	HCH	30.97	0.6	31.57	1.44	2.00	Pass
EGPRS 1900	LCH	29.39	0.6	29.99	1.00	2.00	Pass
	MCH	29.43	0.6	30.03	1.01	2.00	Pass
	HCH	29.53	0.6	30.13	1.03	2.00	Pass

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

Note 2: $ERP/EIRP = P_{Meas} + GT - LC$

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);

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

$ERP = EIRP - 2.15$; where ERP and EIRP are expressed in consistent units.

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	33.90	2.45	33.13	2.05	31.36	1.37	30.31	1.07
	MCH	33.87	2.44	33.08	2.03	31.27	1.34	30.22	1.05
	HCH	33.89	2.45	33.13	2.06	31.37	1.37	30.28	1.07
GPRS 1900	LCH	30.90	1.23	30.03	1.01	27.99	0.63	26.88	0.49
	MCH	30.95	1.24	30.08	1.02	28.03	0.63	26.97	0.50
	HCH	30.97	1.25	30.11	1.02	28.06	0.64	27.00	0.50

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	30.63	1.16	29.69	0.93	27.98	0.63	26.85	0.48
	MCH	30.56	1.14	29.66	0.93	27.83	0.61	27.05	0.51
	HCH	30.69	1.17	29.71	0.93	27.99	0.63	27.10	0.51
EGPRS 1900	LCH	29.39	0.87	28.29	0.67	26.37	0.43	25.15	0.33
	MCH	29.43	0.88	28.43	0.70	26.38	0.43	25.37	0.34
	HCH	29.53	0.90	28.56	0.72	26.63	0.46	25.54	0.36

WCDMA Mode Test data:

Test Band	Test Channel	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
WCDMA Band 2	LCH	23.15	0.6	23.75	0.24	2.00	Pass
	MCH	23.23	0.6	23.83	0.24	2.00	Pass
	HCH	23.17	0.6	23.77	0.24	2.00	Pass
HSDPA Band 2	LCH	22.18	0.6	22.78	0.19	2.00	Pass
	MCH	22.22	0.6	22.82	0.19	2.00	Pass
	HCH	22.20	0.6	22.80	0.19	2.00	Pass
HSUPA Band 2	LCH	22.99	0.6	23.59	0.23	2.00	Pass
	MCH	22.26	0.6	22.86	0.19	2.00	Pass
	HCH	22.24	0.6	22.84	0.19	2.00	Pass

Test Band	Test Channel	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
WCDMA Band 4	LCH	24.05	0.8	24.85	0.31	1.00	Pass
	MCH	23.81	0.8	24.61	0.29	1.00	Pass
	HCH	25.70	0.8	26.50	0.45	1.00	Pass
HSDPA Band 4	LCH	22.97	0.8	23.77	0.24	1.00	Pass
	MCH	22.82	0.8	23.62	0.23	1.00	Pass
	HCH	22.67	0.8	23.47	0.22	1.00	Pass
HSUPA Band 4	LCH	22.99	0.8	23.79	0.24	1.00	Pass
	MCH	22.85	0.8	23.65	0.23	1.00	Pass
	HCH	22.78	0.8	23.58	0.23	1.00	Pass

Test Band	Test Channel	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
WCDMA Band 5	LCH	22.97	0.16	-1.99	20.98	0.13	7.00	Pass
	MCH	22.96	0.16	-1.99	20.97	0.13	7.00	Pass
	HCH	23.06	0.16	-1.99	21.07	0.13	7.00	Pass
HSDPA Band 5	LCH	22.03	0.16	-1.99	20.04	0.10	7.00	Pass
	MCH	22.92	0.16	-1.99	20.93	0.12	7.00	Pass
	HCH	22.05	0.16	-1.99	20.06	0.10	7.00	Pass
HSUPA Band 5	LCH	22.00	0.16	-1.99	20.01	0.10	7.00	Pass
	MCH	21.92	0.16	-1.99	19.93	0.10	7.00	Pass
	HCH	22.07	0.16	-1.99	20.08	0.10	7.00	Pass

Note 2: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data was record in this table.

Note 2: $ERP/EIRP = P_{Meas} + GT - LC$

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);

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

$ERP = EIRP - 2.15$; where ERP and EIRP are expressed in consistent units.

HSDPA Conducted output power

Band	Channel	Conducted Output Average Power (dBm)							
		Subtest 1(dBm)	Subtest 1(W)	Subtest 2(dBm)	Subtest 2(W)	Subtest 3(dBm)	Subtest 3(W)	Subtest 4(dBm)	Subtest 4(W)
HSDPA Band 2	LCH	22.18	0.17	22.18	0.17	21.76	0.15	21.76	0.15
	MCH	22.17	0.16	22.22	0.17	21.77	0.15	21.74	0.15
	HCH	22.15	0.16	22.2	0.17	21.77	0.15	21.75	0.15
HSDPA Band 4	LCH	22.97	0.20	22.92	0.20	22.47	0.18	22.48	0.18
	MCH	22.77	0.19	22.82	0.19	22.35	0.17	22.32	0.17
	HCH	22.67	0.18	22.66	0.18	22.21	0.17	22.22	0.17
HSDPA Band 5	LCH	21.91	0.16	22.03	0.16	21.51	0.14	21.48	0.14
	MCH	21.89	0.15	21.92	0.16	21.44	0.14	21.42	0.14
	HCH	22.05	0.16	22.05	0.16	21.56	0.14	21.59	0.14

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	21.14	0.13	21.08	0.13	22.07	0.16	20.53	0.11	22.99	0.20
	MCH	20.43	0.11	20.37	0.11	21.38	0.14	19.86	0.10	22.26	0.17
	HCH	20.28	0.11	20.35	0.11	21.29	0.13	19.8	0.10	22.24	0.17
HSUPA Band 4	LCH	21.14	0.13	21.08	0.13	22.07	0.16	20.53	0.11	22.99	0.20
	MCH	20.99	0.13	20.92	0.12	21.96	0.16	20.35	0.11	22.85	0.19
	HCH	20.92	0.12	20.83	0.12	21.86	0.15	20.39	0.11	22.78	0.19
HSUPA Band 5	LCH	19.05	0.08	20.04	0.10	21.04	0.13	19.54	0.09	22	0.16
	MCH	19.97	0.10	19.99	0.10	20.97	0.13	19.43	0.09	21.92	0.16
	HCH	20.05	0.10	20.11	0.10	21.08	0.13	19.58	0.09	22.07	0.16

LTE Mode Test data:

Test Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
Band 2	QPSK	1.4 MHz	LCH	RB1#0	23.18	0.6	23.78	0.24	2.00	Pass
				RB1#3	23.23	0.6	23.83	0.24	2.00	Pass
				RB1#5	23.19	0.6	23.79	0.24	2.00	Pass
				RB3#0	23.27	0.6	23.87	0.24	2.00	Pass
				RB3#2	23.26	0.6	23.86	0.24	2.00	Pass
				RB3#3	23.27	0.6	23.87	0.24	2.00	Pass
			RB6#0	22.13	0.6	22.73	0.19	2.00	Pass	
			MCH	RB1#0	23.19	0.6	23.79	0.24	2.00	Pass
				RB1#3	23.29	0.6	23.89	0.24	2.00	Pass
				RB1#5	23.21	0.6	23.81	0.24	2.00	Pass
				RB3#0	23.25	0.6	23.85	0.24	2.00	Pass
				RB3#2	23.27	0.6	23.87	0.24	2.00	Pass
				RB3#3	23.27	0.6	23.87	0.24	2.00	Pass
			RB6#0	22.19	0.6	22.79	0.19	2.00	Pass	
			HCH	RB1#0	23.26	0.6	23.86	0.24	2.00	Pass
				RB1#3	23.38	0.6	23.98	0.25	2.00	Pass
				RB1#5	23.32	0.6	23.92	0.25	2.00	Pass
				RB3#0	23.27	0.6	23.87	0.24	2.00	Pass
		RB3#2		23.3	0.6	23.90	0.25	2.00	Pass	
		RB3#3		23.3	0.6	23.90	0.25	2.00	Pass	
		RB6#0	22.32	0.6	22.92	0.20	2.00	Pass		
		3 MHz	LCH	RB1#0	23.19	0.6	23.79	0.24	2.00	Pass
				RB1#7	23.27	0.6	23.87	0.24	2.00	Pass
				RB1#14	23.19	0.6	23.79	0.24	2.00	Pass
				RB8#0	22.25	0.6	22.85	0.19	2.00	Pass
				RB8#4	22.24	0.6	22.84	0.19	2.00	Pass
				RB8#7	22.24	0.6	22.84	0.19	2.00	Pass
			RB15#0	22.27	0.6	22.87	0.19	2.00	Pass	
			MCH	RB1#0	23.19	0.6	23.79	0.24	2.00	Pass
				RB1#7	23.26	0.6	23.86	0.24	2.00	Pass
				RB1#14	23.17	0.6	23.77	0.24	2.00	Pass
				RB8#0	22.25	0.6	22.85	0.19	2.00	Pass
				RB8#4	22.24	0.6	22.84	0.19	2.00	Pass
				RB8#7	22.23	0.6	22.83	0.19	2.00	Pass
			RB15#0	22.21	0.6	22.81	0.19	2.00	Pass	
			HCH	RB1#0	23.2	0.6	23.80	0.24	2.00	Pass
RB1#7	23.29			0.6	23.89	0.24	2.00	Pass		
RB1#14	23.27			0.6	23.87	0.24	2.00	Pass		
RB8#0	22.3			0.6	22.90	0.19	2.00	Pass		

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		5 MHz		RB8#4	22.34	0.6	22.94	0.20	2.00	Pass
				RB8#7	22.33	0.6	22.93	0.20	2.00	Pass
				RB15#0	22.27	0.6	22.87	0.19	2.00	Pass
			LCH	RB1#0	23.21	0.6	23.81	0.24	2.00	Pass
				RB1#13	23.24	0.6	23.84	0.24	2.00	Pass
				RB1#24	23.19	0.6	23.79	0.24	2.00	Pass
				RB12#0	22.3	0.6	22.90	0.19	2.00	Pass
				RB12#6	22.29	0.6	22.89	0.19	2.00	Pass
				RB12#13	22.29	0.6	22.89	0.19	2.00	Pass
		RB25#0		22.23	0.6	22.83	0.19	2.00	Pass	
		MCH	RB1#0	23.16	0.6	23.76	0.24	2.00	Pass	
			RB1#13	23.14	0.6	23.74	0.24	2.00	Pass	
			RB1#24	23.11	0.6	23.71	0.23	2.00	Pass	
			RB12#0	22.18	0.6	22.78	0.19	2.00	Pass	
			RB12#6	22.14	0.6	22.74	0.19	2.00	Pass	
			RB12#13	22.16	0.6	22.76	0.19	2.00	Pass	
			RB25#0	22.1	0.6	22.70	0.19	2.00	Pass	
		HCH	RB1#0	23.28	0.6	23.88	0.24	2.00	Pass	
			RB1#13	23.35	0.6	23.95	0.25	2.00	Pass	
			RB1#24	23.36	0.6	23.96	0.25	2.00	Pass	
			RB12#0	22.26	0.6	22.86	0.19	2.00	Pass	
			RB12#6	22.29	0.6	22.89	0.19	2.00	Pass	
			RB12#13	22.3	0.6	22.90	0.19	2.00	Pass	
			RB25#0	22.2	0.6	22.80	0.19	2.00	Pass	
		10 MHz	LCH	RB1#0	23.29	0.6	23.89	0.24	2.00	Pass
				RB1#25	23.27	0.6	23.87	0.24	2.00	Pass
				RB1#49	23.31	0.6	23.91	0.25	2.00	Pass
				RB25#0	22.26	0.6	22.86	0.19	2.00	Pass
				RB25#13	22.26	0.6	22.86	0.19	2.00	Pass
				RB25#25	22.26	0.6	22.86	0.19	2.00	Pass
				RB50#0	22.3	0.6	22.90	0.19	2.00	Pass
			MCH	RB1#0	23.3	0.6	23.90	0.25	2.00	Pass
				RB1#25	23.28	0.6	23.88	0.24	2.00	Pass
				RB1#49	23.24	0.6	23.84	0.24	2.00	Pass
				RB25#0	22.21	0.6	22.81	0.19	2.00	Pass
				RB25#13	22.23	0.6	22.83	0.19	2.00	Pass
RB25#25	22.21			0.6	22.81	0.19	2.00	Pass		
RB50#0	22.23			0.6	22.83	0.19	2.00	Pass		
HCH	RB1#0		23.17	0.6	23.77	0.24	2.00	Pass		
	RB1#25		23.21	0.6	23.81	0.24	2.00	Pass		

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		15 MHz		RB1#49	22.98	0.6	23.58	0.23	2.00	Pass
				RB25#0	22.12	0.6	22.72	0.19	2.00	Pass
				RB25#13	22.13	0.6	22.73	0.19	2.00	Pass
				RB25#25	22.18	0.6	22.78	0.19	2.00	Pass
				RB50#0	22.15	0.6	22.75	0.19	2.00	Pass
			LCH	RB1#0	23.26	0.6	23.86	0.24	2.00	Pass
				RB1#38	23.26	0.6	23.86	0.24	2.00	Pass
				RB1#74	23.25	0.6	23.85	0.24	2.00	Pass
				RB36#0	22.33	0.6	22.93	0.20	2.00	Pass
				RB36#19	22.32	0.6	22.92	0.20	2.00	Pass
				RB36#39	22.32	0.6	22.92	0.20	2.00	Pass
			MCH	RB75#0	22.33	0.6	22.93	0.20	2.00	Pass
				RB1#0	23.32	0.6	23.92	0.25	2.00	Pass
				RB1#38	23.28	0.6	23.88	0.24	2.00	Pass
				RB1#74	23.19	0.6	23.79	0.24	2.00	Pass
		RB36#0		22.34	0.6	22.94	0.20	2.00	Pass	
		RB36#19		22.33	0.6	22.93	0.20	2.00	Pass	
		HCH	RB36#39	22.29	0.6	22.89	0.19	2.00	Pass	
			RB75#0	22.34	0.6	22.94	0.20	2.00	Pass	
			RB1#0	23.24	0.6	23.84	0.24	2.00	Pass	
			RB1#38	23.27	0.6	23.87	0.24	2.00	Pass	
			RB1#74	23.24	0.6	23.84	0.24	2.00	Pass	
			RB36#0	22.27	0.6	22.87	0.19	2.00	Pass	
		20 MHz	LCH	RB36#19	22.29	0.6	22.89	0.19	2.00	Pass
				RB36#39	22.33	0.6	22.93	0.20	2.00	Pass
				RB75#0	22.28	0.6	22.88	0.19	2.00	Pass
				RB1#0	23.24	0.6	23.84	0.24	2.00	Pass
				RB1#50	23.23	0.6	23.83	0.24	2.00	Pass
				RB1#99	23.28	0.6	23.88	0.24	2.00	Pass
			MCH	RB50#0	22.34	0.6	22.94	0.20	2.00	Pass
RB50#25	22.29			0.6	22.89	0.19	2.00	Pass		
RB50#50	22.31			0.6	22.91	0.20	2.00	Pass		
RB100#0	22.3			0.6	22.90	0.19	2.00	Pass		
RB1#0	23.34			0.6	23.94	0.25	2.00	Pass		
RB1#50	23.29			0.6	23.89	0.24	2.00	Pass		
	RB1#99		23.18	0.6	23.78	0.24	2.00	Pass		
	RB50#0		22.28	0.6	22.88	0.19	2.00	Pass		
	RB50#25		22.25	0.6	22.85	0.19	2.00	Pass		
				RB50#50	22.21	0.6	22.81	0.19	2.00	Pass
				RB100#0	22.25	0.6	22.85	0.19	2.00	Pass

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict	
			HCH	RB1#0	23.19	0.6	23.79	0.24	2.00	Pass	
				RB1#50	23.19	0.6	23.79	0.24	2.00	Pass	
				RB1#99	23.14	0.6	23.74	0.24	2.00	Pass	
				RB50#0	22.12	0.6	22.72	0.19	2.00	Pass	
				RB50#25	22.07	0.6	22.67	0.18	2.00	Pass	
				RB50#50	22.12	0.6	22.72	0.19	2.00	Pass	
				RB100#0	22.08	0.6	22.68	0.19	2.00	Pass	
	16-QAM	1.4 MHz	LCH		RB1#0	22.25	0.6	22.85	0.19	2.00	Pass
					RB1#3	22.33	0.6	22.93	0.20	2.00	Pass
					RB1#5	22.27	0.6	22.87	0.19	2.00	Pass
					RB3#0	22.3	0.6	22.90	0.19	2.00	Pass
					RB3#2	22.29	0.6	22.89	0.19	2.00	Pass
					RB3#3	22.33	0.6	22.93	0.20	2.00	Pass
					RB6#0	21.34	0.6	21.94	0.16	2.00	Pass
			MCH		RB1#0	22.5	0.6	23.10	0.20	2.00	Pass
					RB1#3	22.55	0.6	23.15	0.21	2.00	Pass
					RB1#5	22.51	0.6	23.11	0.20	2.00	Pass
					RB3#0	22.39	0.6	22.99	0.20	2.00	Pass
					RB3#2	22.39	0.6	22.99	0.20	2.00	Pass
					RB3#3	22.41	0.6	23.01	0.20	2.00	Pass
					RB6#0	21.13	0.6	21.73	0.15	2.00	Pass
		HCH		RB1#0	22.16	0.6	22.76	0.19	2.00	Pass	
				RB1#3	22.22	0.6	22.82	0.19	2.00	Pass	
				RB1#5	22.21	0.6	22.81	0.19	2.00	Pass	
				RB3#0	22.39	0.6	22.99	0.20	2.00	Pass	
				RB3#2	22.39	0.6	22.99	0.20	2.00	Pass	
				RB3#3	22.39	0.6	22.99	0.20	2.00	Pass	
		3 MHz	LCH		RB1#0	22.08	0.6	22.68	0.19	2.00	Pass
	RB1#7				22.14	0.6	22.74	0.19	2.00	Pass	
	RB1#14				22.06	0.6	22.66	0.18	2.00	Pass	
	RB8#0				21.41	0.6	22.01	0.16	2.00	Pass	
	RB8#4				21.43	0.6	22.03	0.16	2.00	Pass	
	RB8#7				21.42	0.6	22.02	0.16	2.00	Pass	
	RB15#0				21.37	0.6	21.97	0.16	2.00	Pass	
	MCH			RB1#0	22.48	0.6	23.08	0.20	2.00	Pass	
				RB1#7	22.54	0.6	23.14	0.21	2.00	Pass	
RB1#14				22.46	0.6	23.06	0.20	2.00	Pass		
RB8#0				21.33	0.6	21.93	0.16	2.00	Pass		
RB8#4				21.34	0.6	21.94	0.16	2.00	Pass		

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		5 MHz		RB8#7	21.33	0.6	21.93	0.16	2.00	Pass
				RB15#0	21.27	0.6	21.87	0.15	2.00	Pass
			HCH	RB1#0	22.12	0.6	22.72	0.19	2.00	Pass
				RB1#7	22.17	0.6	22.77	0.19	2.00	Pass
				RB1#14	22.12	0.6	22.72	0.19	2.00	Pass
				RB8#0	21.31	0.6	21.91	0.16	2.00	Pass
				RB8#4	21.34	0.6	21.94	0.16	2.00	Pass
				RB8#7	21.33	0.6	21.93	0.16	2.00	Pass
				RB15#0	21.25	0.6	21.85	0.15	2.00	Pass
				LCH	RB1#0	22.41	0.6	23.01	0.20	2.00
			RB1#13		22.41	0.6	23.01	0.20	2.00	Pass
			RB1#24		22.41	0.6	23.01	0.20	2.00	Pass
			RB12#0		21.47	0.6	22.07	0.16	2.00	Pass
			RB12#6		21.45	0.6	22.05	0.16	2.00	Pass
			RB12#13		21.48	0.6	22.08	0.16	2.00	Pass
			RB25#0		21.38	0.6	21.98	0.16	2.00	Pass
		MCH	RB1#0	22.59	0.6	23.19	0.21	2.00	Pass	
			RB1#13	22.62	0.6	23.22	0.21	2.00	Pass	
			RB1#24	22.56	0.6	23.16	0.21	2.00	Pass	
			RB12#0	21.35	0.6	21.95	0.16	2.00	Pass	
			RB12#6	21.34	0.6	21.94	0.16	2.00	Pass	
			RB12#13	21.33	0.6	21.93	0.16	2.00	Pass	
			RB25#0	21.22	0.6	21.82	0.15	2.00	Pass	
		HCH	RB1#0	22.22	0.6	22.82	0.19	2.00	Pass	
			RB1#13	22.29	0.6	22.89	0.19	2.00	Pass	
			RB1#24	22.3	0.6	22.90	0.19	2.00	Pass	
			RB12#0	21.33	0.6	21.93	0.16	2.00	Pass	
			RB12#6	21.35	0.6	21.95	0.16	2.00	Pass	
			RB12#13	21.37	0.6	21.97	0.16	2.00	Pass	
			RB25#0	21.19	0.6	21.79	0.15	2.00	Pass	
		10 MHz	LCH	RB1#0	22.15	0.6	22.75	0.19	2.00	Pass
				RB1#25	22.16	0.6	22.76	0.19	2.00	Pass
				RB1#49	22.18	0.6	22.78	0.19	2.00	Pass
				RB25#0	21.36	0.6	21.96	0.16	2.00	Pass
				RB25#13	21.4	0.6	22.00	0.16	2.00	Pass
				RB25#25	21.38	0.6	21.98	0.16	2.00	Pass
				RB50#0	21.38	0.6	21.98	0.16	2.00	Pass
			MCH	RB1#0	22.55	0.6	23.15	0.21	2.00	Pass
				RB1#25	22.56	0.6	23.16	0.21	2.00	Pass
				RB1#49	22.5	0.6	23.10	0.20	2.00	Pass

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		15 MHz		RB25#0	21.29	0.6	21.89	0.15	2.00	Pass
				RB25#13	21.3	0.6	21.90	0.15	2.00	Pass
				RB25#25	21.29	0.6	21.89	0.15	2.00	Pass
				RB50#0	21.3	0.6	21.90	0.15	2.00	Pass
			HCH	RB1#0	22.06	0.6	22.66	0.18	2.00	Pass
				RB1#25	22.09	0.6	22.69	0.19	2.00	Pass
				RB1#49	22.02	0.6	22.62	0.18	2.00	Pass
				RB25#0	21.22	0.6	21.82	0.15	2.00	Pass
				RB25#13	21.27	0.6	21.87	0.15	2.00	Pass
				RB25#25	21.3	0.6	21.90	0.15	2.00	Pass
				RB50#0	21.22	0.6	21.82	0.15	2.00	Pass
				LCH	RB1#0	22.17	0.6	22.77	0.19	2.00
			RB1#38		22.18	0.6	22.78	0.19	2.00	Pass
			RB1#74		22.14	0.6	22.74	0.19	2.00	Pass
			RB36#0		21.36	0.6	21.96	0.16	2.00	Pass
			RB36#19		21.36	0.6	21.96	0.16	2.00	Pass
		RB36#39	21.34		0.6	21.94	0.16	2.00	Pass	
		RB75#0	21.37		0.6	21.97	0.16	2.00	Pass	
		MCH	RB1#0	22.59	0.6	23.19	0.21	2.00	Pass	
			RB1#38	22.56	0.6	23.16	0.21	2.00	Pass	
			RB1#74	22.47	0.6	23.07	0.20	2.00	Pass	
			RB36#0	21.35	0.6	21.95	0.16	2.00	Pass	
			RB36#19	21.36	0.6	21.96	0.16	2.00	Pass	
			RB36#39	21.33	0.6	21.93	0.16	2.00	Pass	
			RB75#0	21.34	0.6	21.94	0.16	2.00	Pass	
		HCH	RB1#0	22.41	0.6	23.01	0.20	2.00	Pass	
			RB1#38	22.33	0.6	22.93	0.20	2.00	Pass	
			RB1#74	22.4	0.6	23.00	0.20	2.00	Pass	
			RB36#0	21.17	0.6	21.77	0.15	2.00	Pass	
			RB36#19	21.19	0.6	21.79	0.15	2.00	Pass	
			RB36#39	21.24	0.6	21.84	0.15	2.00	Pass	
			RB75#0	21.22	0.6	21.82	0.15	2.00	Pass	
		20 MHz	LCH	RB1#0	22.83	0.6	23.43	0.22	2.00	Pass
				RB1#50	22.82	0.6	23.42	0.22	2.00	Pass
				RB1#99	22.78	0.6	23.38	0.22	2.00	Pass
				RB50#0	21.45	0.6	22.05	0.16	2.00	Pass
				RB50#25	21.41	0.6	22.01	0.16	2.00	Pass
				RB50#50	21.4	0.6	22.00	0.16	2.00	Pass
				RB100#0	21.4	0.6	22.00	0.16	2.00	Pass
			MCH	RB1#0	22.67	0.6	23.27	0.21	2.00	Pass

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict		
Band 4	QPSK	1.4 MHz		RB1#50	22.62	0.6	23.22	0.21	2.00	Pass		
				RB1#99	22.51	0.6	23.11	0.20	2.00	Pass		
				RB50#0	21.33	0.6	21.93	0.16	2.00	Pass		
				RB50#25	21.31	0.6	21.91	0.16	2.00	Pass		
				RB50#50	21.27	0.6	21.87	0.15	2.00	Pass		
				RB100#0	21.3	0.6	21.90	0.15	2.00	Pass		
			HCH	RB1#0	22.5	0.6	23.10	0.20	2.00	Pass		
				RB1#50	22.34	0.6	22.94	0.20	2.00	Pass		
				RB1#99	22.46	0.6	23.06	0.20	2.00	Pass		
				RB50#0	21.12	0.6	21.72	0.15	2.00	Pass		
				RB50#25	21.06	0.6	21.66	0.15	2.00	Pass		
				RB50#50	21.13	0.6	21.73	0.15	2.00	Pass		
			QPSK	1.4 MHz	LCH	RB1#0	23.3	0.8	24.10	0.26	1.00	Pass
						RB1#3	23.38	0.8	24.18	0.26	1.00	Pass
	RB1#5	23.3				0.8	24.10	0.26	1.00	Pass		
	RB3#0	23.32				0.8	24.12	0.26	1.00	Pass		
	RB3#2	23.32				0.8	24.12	0.26	1.00	Pass		
	RB3#3	23.35				0.8	24.15	0.26	1.00	Pass		
	RB6#0	22.27				0.8	23.07	0.20	1.00	Pass		
	MCH	RB1#0			23.3	0.8	24.10	0.26	1.00	Pass		
		RB1#3			23.39	0.8	24.19	0.26	1.00	Pass		
RB1#5		23.29			0.8	24.09	0.26	1.00	Pass			
RB3#0		23.39			0.8	24.19	0.26	1.00	Pass			
RB3#2		23.37			0.8	24.17	0.26	1.00	Pass			
RB3#3		23.39			0.8	24.19	0.26	1.00	Pass			
HCH	RB6#0	22.27			0.8	23.07	0.20	1.00	Pass			
	RB1#0	23.01			0.8	23.81	0.24	1.00	Pass			
	RB1#3	23.09			0.8	23.89	0.24	1.00	Pass			
	RB1#5	23.02			0.8	23.82	0.24	1.00	Pass			
	RB3#0	23.1	0.8	23.90	0.25	1.00	Pass					
	RB3#2	23.1	0.8	23.90	0.25	1.00	Pass					
3 MHz	LCH	RB3#3	23.12	0.8	23.92	0.25	1.00	Pass				
		RB6#0	22.04	0.8	22.84	0.19	1.00	Pass				
		RB1#0	23.21	0.8	24.01	0.25	1.00	Pass				
		RB1#7	23.3	0.8	24.10	0.26	1.00	Pass				
		RB1#14	23.22	0.8	24.02	0.25	1.00	Pass				
		RB8#0	22.33	0.8	23.13	0.21	1.00	Pass				
RB8#4	22.36	0.8	23.16	0.21	1.00	Pass						
RB8#7	22.34	0.8	23.14	0.21	1.00	Pass						

Test Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		5 MHz	MCH	RB15#0	22.31	0.8	23.11	0.20	1.00	Pass
				RB1#0	23.28	0.8	24.08	0.26	1.00	Pass
				RB1#7	23.35	0.8	24.15	0.26	1.00	Pass
				RB1#14	23.27	0.8	24.07	0.26	1.00	Pass
				RB8#0	22.35	0.8	23.15	0.21	1.00	Pass
				RB8#4	22.37	0.8	23.17	0.21	1.00	Pass
				RB8#7	22.36	0.8	23.16	0.21	1.00	Pass
				RB15#0	22.31	0.8	23.11	0.20	1.00	Pass
			HCH	RB1#0	23.02	0.8	23.82	0.24	1.00	Pass
				RB1#7	23.06	0.8	23.86	0.24	1.00	Pass
				RB1#14	22.97	0.8	23.77	0.24	1.00	Pass
				RB8#0	22.1	0.8	22.90	0.19	1.00	Pass
				RB8#4	22.11	0.8	22.91	0.20	1.00	Pass
				RB8#7	22.09	0.8	22.89	0.19	1.00	Pass
		RB15#0	22.08	0.8	22.88	0.19	1.00	Pass		
		10 MHz	LCH	RB1#0	23.42	0.8	24.22	0.26	1.00	Pass
				RB1#13	23.44	0.8	24.24	0.27	1.00	Pass
				RB1#24	23.43	0.8	24.23	0.26	1.00	Pass
				RB12#0	22.35	0.8	23.15	0.21	1.00	Pass
				RB12#6	22.34	0.8	23.14	0.21	1.00	Pass
				RB12#13	22.35	0.8	23.15	0.21	1.00	Pass
				RB25#0	22.31	0.8	23.11	0.20	1.00	Pass
				MCH	RB1#0	23.33	0.8	24.13	0.26	1.00
			RB1#13		23.33	0.8	24.13	0.26	1.00	Pass
			RB1#24		23.31	0.8	24.11	0.26	1.00	Pass
			RB12#0		22.38	0.8	23.18	0.21	1.00	Pass
			RB12#6		22.35	0.8	23.15	0.21	1.00	Pass
			RB12#13		22.36	0.8	23.16	0.21	1.00	Pass
			RB25#0		22.31	0.8	23.11	0.20	1.00	Pass
			HCH		RB1#0	23.18	0.8	23.98	0.25	1.00
				RB1#13	23.16	0.8	23.96	0.25	1.00	Pass
		RB1#24		23.12	0.8	23.92	0.25	1.00	Pass	
		RB12#0		22.19	0.8	22.99	0.20	1.00	Pass	
		RB12#6		22.18	0.8	22.98	0.20	1.00	Pass	
		RB12#13		22.14	0.8	22.94	0.20	1.00	Pass	
		RB25#0		22.09	0.8	22.89	0.19	1.00	Pass	
		LCH		RB1#0	23.29	0.8	24.09	0.26	1.00	Pass
			RB1#25	23.31	0.8	24.11	0.26	1.00	Pass	
			RB1#49	23.33	0.8	24.13	0.26	1.00	Pass	
			RB25#0	22.29	0.8	23.09	0.20	1.00	Pass	

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		15MHz	MCH	RB25#13	22.31	0.8	23.11	0.20	1.00	Pass
				RB25#25	22.31	0.8	23.11	0.20	1.00	Pass
				RB50#0	22.33	0.8	23.13	0.21	1.00	Pass
				RB1#0	23.38	0.8	24.18	0.26	1.00	Pass
				RB1#25	23.37	0.8	24.17	0.26	1.00	Pass
				RB1#49	23.33	0.8	24.13	0.26	1.00	Pass
				RB25#0	22.32	0.8	23.12	0.21	1.00	Pass
				RB25#13	22.33	0.8	23.13	0.21	1.00	Pass
				RB25#25	22.29	0.8	23.09	0.20	1.00	Pass
			RB50#0	22.33	0.8	23.13	0.21	1.00	Pass	
			HCH	RB1#0	23.17	0.8	23.97	0.25	1.00	Pass
				RB1#25	23.11	0.8	23.91	0.25	1.00	Pass
				RB1#49	23.02	0.8	23.82	0.24	1.00	Pass
				RB25#0	22.19	0.8	22.99	0.20	1.00	Pass
				RB25#13	22.14	0.8	22.94	0.20	1.00	Pass
				RB25#25	22.1	0.8	22.90	0.19	1.00	Pass
				RB50#0	22.19	0.8	22.99	0.20	1.00	Pass
			LCH	RB1#0	23.3	0.8	24.10	0.26	1.00	Pass
				RB1#38	23.32	0.8	24.12	0.26	1.00	Pass
				RB1#74	23.29	0.8	24.09	0.26	1.00	Pass
				RB36#0	22.35	0.8	23.15	0.21	1.00	Pass
		RB36#19		22.35	0.8	23.15	0.21	1.00	Pass	
		RB36#39		22.38	0.8	23.18	0.21	1.00	Pass	
		RB75#0		22.39	0.8	23.19	0.21	1.00	Pass	
		MCH		RB1#0	23.44	0.8	24.24	0.27	1.00	Pass
				RB1#38	23.36	0.8	24.16	0.26	1.00	Pass
				RB1#74	23.29	0.8	24.09	0.26	1.00	Pass
				RB36#0	22.43	0.8	23.23	0.21	1.00	Pass
				RB36#19	22.39	0.8	23.19	0.21	1.00	Pass
			RB36#39	22.35	0.8	23.15	0.21	1.00	Pass	
			RB75#0	22.42	0.8	23.22	0.21	1.00	Pass	
		HCH	RB1#0	23.4	0.8	24.20	0.26	1.00	Pass	
			RB1#38	23.27	0.8	24.07	0.26	1.00	Pass	
RB1#74	23.2		0.8	24.00	0.25	1.00	Pass			
RB36#0	22.35		0.8	23.15	0.21	1.00	Pass			
RB36#19	22.3		0.8	23.10	0.20	1.00	Pass			
RB36#39	22.22		0.8	23.02	0.20	1.00	Pass			
RB75#0	22.31		0.8	23.11	0.20	1.00	Pass			
20 MHz	LCH	RB1#0	23.34	0.8	24.14	0.26	1.00	Pass		
		RB1#50	23.36	0.8	24.16	0.26	1.00	Pass		

Test Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict			
				RB1#99	23.33	0.8	24.13	0.26	1.00	Pass			
				RB50#0	22.34	0.8	23.14	0.21	1.00	Pass			
				RB50#25	22.3	0.8	23.10	0.20	1.00	Pass			
				RB50#50	22.32	0.8	23.12	0.21	1.00	Pass			
				RB100#0	22.3	0.8	23.10	0.20	1.00	Pass			
			MCH	RB1#0	23.43	0.8	24.23	0.26	1.00	Pass			
				RB1#50	23.36	0.8	24.16	0.26	1.00	Pass			
				RB1#99	23.29	0.8	24.09	0.26	1.00	Pass			
				RB50#0	22.42	0.8	23.22	0.21	1.00	Pass			
				RB50#25	22.34	0.8	23.14	0.21	1.00	Pass			
				RB50#50	22.33	0.8	23.13	0.21	1.00	Pass			
			HCH	RB100#0	22.35	0.8	23.15	0.21	1.00	Pass			
				RB1#0	23.44	0.8	24.24	0.27	1.00	Pass			
				RB1#50	23.34	0.8	24.14	0.26	1.00	Pass			
				RB1#99	23.21	0.8	24.01	0.25	1.00	Pass			
				RB50#0	22.43	0.8	23.23	0.21	1.00	Pass			
				RB50#25	22.34	0.8	23.14	0.21	1.00	Pass			
			Band 4	16QAM	1.4 MHz	LCH	RB50#50	22.28	0.8	23.08	0.20	1.00	Pass
							RB100#0	22.32	0.8	23.12	0.21	1.00	Pass
							RB1#0	22.34	0.8	23.14	0.21	1.00	Pass
							RB1#3	22.42	0.8	23.22	0.21	1.00	Pass
RB1#5	22.36	0.8					23.16	0.21	1.00	Pass			
RB3#0	22.36	0.8					23.16	0.21	1.00	Pass			
RB3#2	22.34	0.8					23.14	0.21	1.00	Pass			
MCH	RB3#3	22.39				0.8	23.19	0.21	1.00	Pass			
	RB6#0	21.44				0.8	22.24	0.17	1.00	Pass			
	RB1#0	22.64				0.8	23.44	0.22	1.00	Pass			
	RB1#3	22.67				0.8	23.47	0.22	1.00	Pass			
	RB1#5	22.62				0.8	23.42	0.22	1.00	Pass			
	RB3#0	22.54				0.8	23.34	0.22	1.00	Pass			
	RB3#2	22.49				0.8	23.29	0.21	1.00	Pass			
HCH	RB3#3	22.52				0.8	23.32	0.21	1.00	Pass			
	RB6#0	21.2				0.8	22.00	0.16	1.00	Pass			
	RB1#0	22.04				0.8	22.84	0.19	1.00	Pass			
	RB1#3	22.12				0.8	22.92	0.20	1.00	Pass			
	RB1#5	22.06				0.8	22.86	0.19	1.00	Pass			
	RB3#0	22.3				0.8	23.10	0.20	1.00	Pass			
	RB3#2	22.27				0.8	23.07	0.20	1.00	Pass			
	RB3#3	22.29	0.8	23.09	0.20	1.00	Pass						
	RB6#0	21.24	0.8	22.04	0.16	1.00	Pass						

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		3 MHz	LCH	RB1#0	22.13	0.8	22.93	0.20	1.00	Pass
				RB1#7	22.18	0.8	22.98	0.20	1.00	Pass
				RB1#14	22.1	0.8	22.90	0.19	1.00	Pass
				RB8#0	21.46	0.8	22.26	0.17	1.00	Pass
				RB8#4	21.49	0.8	22.29	0.17	1.00	Pass
				RB8#7	21.46	0.8	22.26	0.17	1.00	Pass
				RB15#0	21.37	0.8	22.17	0.16	1.00	Pass
			MCH	RB1#0	22.6	0.8	23.40	0.22	1.00	Pass
				RB1#7	22.66	0.8	23.46	0.22	1.00	Pass
				RB1#14	22.6	0.8	23.40	0.22	1.00	Pass
				RB8#0	21.47	0.8	22.27	0.17	1.00	Pass
				RB8#4	21.48	0.8	22.28	0.17	1.00	Pass
				RB8#7	21.45	0.8	22.25	0.17	1.00	Pass
				RB15#0	21.39	0.8	22.19	0.17	1.00	Pass
			HCH	RB1#0	22.07	0.8	22.87	0.19	1.00	Pass
				RB1#7	22.07	0.8	22.87	0.19	1.00	Pass
				RB1#14	21.98	0.8	22.78	0.19	1.00	Pass
				RB8#0	21.18	0.8	21.98	0.16	1.00	Pass
				RB8#4	21.17	0.8	21.97	0.16	1.00	Pass
				RB8#7	21.15	0.8	21.95	0.16	1.00	Pass
				RB15#0	21.1	0.8	21.90	0.15	1.00	Pass
		5MHz	LCH	RB1#0	22.46	0.8	23.26	0.21	1.00	Pass
				RB1#13	22.48	0.8	23.28	0.21	1.00	Pass
				RB1#24	22.49	0.8	23.29	0.21	1.00	Pass
				RB12#0	21.48	0.8	22.28	0.17	1.00	Pass
				RB12#6	21.47	0.8	22.27	0.17	1.00	Pass
				RB12#13	21.48	0.8	22.28	0.17	1.00	Pass
				RB25#0	21.39	0.8	22.19	0.17	1.00	Pass
			MCH	RB1#0	22.82	0.8	23.62	0.23	1.00	Pass
				RB1#13	22.83	0.8	23.63	0.23	1.00	Pass
				RB1#24	22.81	0.8	23.61	0.23	1.00	Pass
				RB12#0	21.54	0.8	22.34	0.17	1.00	Pass
				RB12#6	21.51	0.8	22.31	0.17	1.00	Pass
				RB12#13	21.53	0.8	22.33	0.17	1.00	Pass
				RB25#0	21.41	0.8	22.21	0.17	1.00	Pass
			HCH	RB1#0	22.23	0.8	23.03	0.20	1.00	Pass
RB1#13	22.22	0.8		23.02	0.20	1.00	Pass			
RB1#24	22.17	0.8		22.97	0.20	1.00	Pass			
RB12#0	21.3	0.8		22.10	0.16	1.00	Pass			
RB12#6	21.28	0.8		22.08	0.16	1.00	Pass			

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		10MHz		RB12#13	21.24	0.8	22.04	0.16	1.00	Pass
				RB25#0	21.11	0.8	21.91	0.16	1.00	Pass
			LCH	RB1#0	22.19	0.8	22.99	0.20	1.00	Pass
				RB1#25	22.22	0.8	23.02	0.20	1.00	Pass
				RB1#49	22.21	0.8	23.01	0.20	1.00	Pass
				RB25#0	21.37	0.8	22.17	0.16	1.00	Pass
				RB25#13	21.38	0.8	22.18	0.17	1.00	Pass
				RB25#25	21.39	0.8	22.19	0.17	1.00	Pass
				RB50#0	21.33	0.8	22.13	0.16	1.00	Pass
				MCH	RB1#0	22.7	0.8	23.50	0.22	1.00
		RB1#25	22.67		0.8	23.47	0.22	1.00	Pass	
		RB1#49	22.61		0.8	23.41	0.22	1.00	Pass	
		RB25#0	21.41		0.8	22.21	0.17	1.00	Pass	
		RB25#13	21.43		0.8	22.23	0.17	1.00	Pass	
		RB25#25	21.4		0.8	22.20	0.17	1.00	Pass	
		RB50#0	21.4		0.8	22.20	0.17	1.00	Pass	
		HCH	RB1#0	22.25	0.8	23.05	0.20	1.00	Pass	
			RB1#25	22.16	0.8	22.96	0.20	1.00	Pass	
			RB1#49	22.05	0.8	22.85	0.19	1.00	Pass	
			RB25#0	21.36	0.8	22.16	0.16	1.00	Pass	
			RB25#13	21.31	0.8	22.11	0.16	1.00	Pass	
			RB25#25	21.27	0.8	22.07	0.16	1.00	Pass	
			RB50#0	21.29	0.8	22.09	0.16	1.00	Pass	
		15 MHz	LCH	RB1#0	22.2	0.8	23.00	0.20	1.00	Pass
				RB1#38	22.21	0.8	23.01	0.20	1.00	Pass
				RB1#74	22.17	0.8	22.97	0.20	1.00	Pass
				RB36#0	21.35	0.8	22.15	0.16	1.00	Pass
				RB36#19	21.36	0.8	22.16	0.16	1.00	Pass
				RB36#39	21.34	0.8	22.14	0.16	1.00	Pass
				RB75#0	21.39	0.8	22.19	0.17	1.00	Pass
			MCH	RB1#0	22.75	0.8	23.55	0.23	1.00	Pass
				RB1#38	22.67	0.8	23.47	0.22	1.00	Pass
				RB1#74	22.62	0.8	23.42	0.22	1.00	Pass
RB36#0	21.46			0.8	22.26	0.17	1.00	Pass		
RB36#19	21.43			0.8	22.23	0.17	1.00	Pass		
RB36#39	21.41			0.8	22.21	0.17	1.00	Pass		
HCH	RB75#0		21.43	0.8	22.23	0.17	1.00	Pass		
	RB1#0		22.7	0.8	23.50	0.22	1.00	Pass		
	RB1#38	22.59	0.8	23.39	0.22	1.00	Pass			
			RB1#74	22.41	0.8	23.21	0.21	1.00	Pass	

Test Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict		
		20 MHz		RB36#0	21.35	0.8	22.15	0.16	1.00	Pass		
				RB36#19	21.31	0.8	22.11	0.16	1.00	Pass		
				RB36#39	21.21	0.8	22.01	0.16	1.00	Pass		
				RB75#0	21.32	0.8	22.12	0.16	1.00	Pass		
			LCH	RB1#0	22.84	0.8	23.64	0.23	1.00	Pass		
				RB1#50	22.86	0.8	23.66	0.23	1.00	Pass		
				RB1#99	22.81	0.8	23.61	0.23	1.00	Pass		
				RB50#0	21.41	0.8	22.21	0.17	1.00	Pass		
				RB50#25	21.38	0.8	22.18	0.17	1.00	Pass		
				RB50#50	21.39	0.8	22.19	0.17	1.00	Pass		
			MCH	RB100#0	21.39	0.8	22.19	0.17	1.00	Pass		
				RB1#0	22.78	0.8	23.58	0.23	1.00	Pass		
		RB1#50		22.73	0.8	23.53	0.23	1.00	Pass			
		RB1#99		22.71	0.8	23.51	0.22	1.00	Pass			
		RB50#0		21.47	0.8	22.27	0.17	1.00	Pass			
		RB50#25		21.41	0.8	22.21	0.17	1.00	Pass			
		HCH	RB50#50	21.41	0.8	22.21	0.17	1.00	Pass			
			RB100#0	21.4	0.8	22.20	0.17	1.00	Pass			
			RB1#0	22.81	0.8	23.61	0.23	1.00	Pass			
			RB1#50	22.7	0.8	23.50	0.22	1.00	Pass			
			RB1#99	22.55	0.8	23.35	0.22	1.00	Pass			
			RB50#0	21.46	0.8	22.26	0.17	1.00	Pass			
		Band 7	QPSK	5MHz	LOW	RB1#0	23.28	-2.5	20.78	0.12	2.00	Pass
						RB1#13	23.06	-2.5	20.56	0.11	2.00	Pass
						RB1#24	23.3	-2.5	20.80	0.12	2.00	Pass
						RB12#0	22.06	-2.5	19.56	0.09	2.00	Pass
						RB12#6	22.09	-2.5	19.59	0.09	2.00	Pass
						RB12#13	22.19	-2.5	19.69	0.09	2.00	Pass
RB25#0	22.15					-2.5	19.65	0.09	2.00	Pass		
MCH	RB1#0				23.04	-2.5	20.54	0.11	2.00	Pass		
	RB1#13				22.7	-2.5	20.20	0.10	2.00	Pass		
	RB1#24				23.09	-2.5	20.59	0.11	2.00	Pass		
	RB12#0				21.87	-2.5	19.37	0.09	2.00	Pass		
	RB12#6				21.87	-2.5	19.37	0.09	2.00	Pass		
	RB12#13				21.96	-2.5	19.46	0.09	2.00	Pass		
HCH	RB25#0				21.88	-2.5	19.38	0.09	2.00	Pass		
	RB1#0				23.17	-2.5	20.67	0.12	2.00	Pass		

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		20MHz	HCH	RB25#0	21.8	-2.5	19.30	0.09	2.00	Pass
				RB1#0	23.03	-2.5	20.53	0.11	2.00	Pass
				RB1#13	22.69	-2.5	20.19	0.10	2.00	Pass
				RB1#24	23.01	-2.5	20.51	0.11	2.00	Pass
				RB12#0	22.06	-2.5	19.56	0.09	2.00	Pass
				RB12#6	21.96	-2.5	19.46	0.09	2.00	Pass
				RB12#13	21.94	-2.5	19.44	0.09	2.00	Pass
				RB25#0	22.01	-2.5	19.51	0.09	2.00	Pass
			LCH	RB1#0	22.91	-2.5	20.41	0.11	2.00	Pass
				RB1#13	23.18	-2.5	20.68	0.12	2.00	Pass
				RB1#24	23.11	-2.5	20.61	0.12	2.00	Pass
				RB12#0	22.11	-2.5	19.61	0.09	2.00	Pass
				RB12#6	22.07	-2.5	19.57	0.09	2.00	Pass
				RB12#13	22.03	-2.5	19.53	0.09	2.00	Pass
		MCH	RB25#0	22.09	-2.5	19.59	0.09	2.00	Pass	
			RB1#0	22.77	-2.5	20.27	0.11	2.00	Pass	
			RB1#13	22.53	-2.5	20.03	0.10	2.00	Pass	
			RB1#24	23.15	-2.5	20.65	0.12	2.00	Pass	
			RB12#0	21.72	-2.5	19.22	0.08	2.00	Pass	
			RB12#6	21.7	-2.5	19.20	0.08	2.00	Pass	
			RB12#13	21.92	-2.5	19.42	0.09	2.00	Pass	
		HCH	RB25#0	21.81	-2.5	19.31	0.09	2.00	Pass	
			RB1#0	23.38	-2.5	20.88	0.12	2.00	Pass	
			RB1#13	22.78	-2.5	20.28	0.11	2.00	Pass	
			RB1#24	23.04	-2.5	20.54	0.11	2.00	Pass	
			RB12#0	22.23	-2.5	19.73	0.09	2.00	Pass	
			RB12#6	22.1	-2.5	19.60	0.09	2.00	Pass	
			RB12#13	22.05	-2.5	19.55	0.09	2.00	Pass	
RB25#0	22.2	-2.5	19.70	0.09	2.00	Pass				
5MHz	LCH	RB1#0	22.28	-2.5	19.78	0.10	2.00	Pass		
		RB1#13	22.07	-2.5	19.57	0.09	2.00	Pass		
		RB1#24	22.31	-2.5	19.81	0.10	2.00	Pass		
		RB12#0	21.21	-2.5	18.71	0.07	2.00	Pass		
		RB12#6	21.23	-2.5	18.73	0.07	2.00	Pass		
		RB12#13	21.25	-2.5	18.75	0.07	2.00	Pass		
		RB25#0	21.14	-2.5	18.64	0.07	2.00	Pass		
	MCH	RB1#0	22.44	-2.5	19.94	0.10	2.00	Pass		
		RB1#13	22.2	-2.5	19.70	0.09	2.00	Pass		
		RB1#24	22.58	-2.5	20.08	0.10	2.00	Pass		
		RB12#0	21.17	-2.5	18.67	0.07	2.00	Pass		

Test Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict	
				RB12#6	21.17	-2.5	18.67	0.07	2.00	Pass	
				RB12#13	21.29	-2.5	18.79	0.08	2.00	Pass	
				RB25#0	21.16	-2.5	18.66	0.07	2.00	Pass	
			HCH	RB1#0	22.23	-2.5	19.73	0.09	2.00	Pass	
				RB1#13	21.96	-2.5	19.46	0.09	2.00	Pass	
				RB1#24	22.28	-2.5	19.78	0.10	2.00	Pass	
				RB12#0	21.17	-2.5	18.67	0.07	2.00	Pass	
				RB12#6	21.16	-2.5	18.66	0.07	2.00	Pass	
				RB12#13	21.23	-2.5	18.73	0.07	2.00	Pass	
				RB25#0	21.09	-2.5	18.59	0.07	2.00	Pass	
				LCH	RB1#0	21.52	-2.5	19.02	0.08	2.00	Pass
					RB1#13	22.04	-2.5	19.54	0.09	2.00	Pass
					RB1#24	22.04	-2.5	19.54	0.09	2.00	Pass
					RB12#0	21.12	-2.5	18.62	0.07	2.00	Pass
					RB12#6	21.14	-2.5	18.64	0.07	2.00	Pass
	RB12#13	21.11	-2.5		18.61	0.07	2.00	Pass			
	RB25#0	21.08	-2.5		18.58	0.07	2.00	Pass			
	MCH	RB1#0	21.86	-2.5	19.36	0.09	2.00	Pass			
		RB1#13	22.02	-2.5	19.52	0.09	2.00	Pass			
		RB1#24	22.04	-2.5	19.54	0.09	2.00	Pass			
		RB12#0	20.95	-2.5	18.45	0.07	2.00	Pass			
		RB12#6	21.04	-2.5	18.54	0.07	2.00	Pass			
		RB12#13	21.1	-2.5	18.60	0.07	2.00	Pass			
		RB25#0	21.03	-2.5	18.53	0.07	2.00	Pass			
	HCH	RB1#0	21.79	-2.5	19.29	0.08	2.00	Pass			
		RB1#13	21.77	-2.5	19.27	0.08	2.00	Pass			
		RB1#24	21.85	-2.5	19.35	0.09	2.00	Pass			
		RB12#0	21.18	-2.5	18.68	0.07	2.00	Pass			
		RB12#6	21.16	-2.5	18.66	0.07	2.00	Pass			
		RB12#13	21.23	-2.5	18.73	0.07	2.00	Pass			
RB25#0		21.13	-2.5	18.63	0.07	2.00	Pass				
15MHz	LCH	RB1#0	21.67	-2.5	19.17	0.08	2.00	Pass			
		RB1#13	21.99	-2.5	19.49	0.09	2.00	Pass			
		RB1#24	21.96	-2.5	19.46	0.09	2.00	Pass			
		RB12#0	21.15	-2.5	18.65	0.07	2.00	Pass			
		RB12#6	21.15	-2.5	18.65	0.07	2.00	Pass			
		RB12#13	21.14	-2.5	18.64	0.07	2.00	Pass			
		RB25#0	21.14	-2.5	18.64	0.07	2.00	Pass			
	MCH	RB1#0	22.03	-2.5	19.53	0.09	2.00	Pass			
		RB1#13	21.92	-2.5	19.42	0.09	2.00	Pass			

Test Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
				RB1#24	22.44	-2.5	19.94	0.10	2.00	Pass
				RB12#0	20.89	-2.5	18.39	0.07	2.00	Pass
				RB12#6	20.97	-2.5	18.47	0.07	2.00	Pass
				RB12#13	21.15	-2.5	18.65	0.07	2.00	Pass
				RB25#0	21.02	-2.5	18.52	0.07	2.00	Pass
			HCH	RB1#0	22.32	-2.5	19.82	0.10	2.00	Pass
				RB1#13	22.1	-2.5	19.60	0.09	2.00	Pass
				RB1#24	22.33	-2.5	19.83	0.10	2.00	Pass
				RB12#0	21.13	-2.5	18.63	0.07	2.00	Pass
				RB12#6	21.13	-2.5	18.63	0.07	2.00	Pass
				RB12#13	21.13	-2.5	18.63	0.07	2.00	Pass
			LCH	RB25#0	21.2	-2.5	18.70	0.07	2.00	Pass
				RB1#0	22.25	-2.5	19.75	0.09	2.00	Pass
				RB1#13	22.55	-2.5	20.05	0.10	2.00	Pass
				RB1#24	22.57	-2.5	20.07	0.10	2.00	Pass
		RB12#0		21.11	-2.5	18.61	0.07	2.00	Pass	
		RB12#6		21.05	-2.5	18.55	0.07	2.00	Pass	
		RB12#13		21.02	-2.5	18.52	0.07	2.00	Pass	
		MCH	RB25#0	21.06	-2.5	18.56	0.07	2.00	Pass	
			RB1#0	22.1	-2.5	19.60	0.09	2.00	Pass	
			RB1#13	21.95	-2.5	19.45	0.09	2.00	Pass	
			RB1#24	22.54	-2.5	20.04	0.10	2.00	Pass	
			RB12#0	20.87	-2.5	18.37	0.07	2.00	Pass	
			RB12#6	20.9	-2.5	18.40	0.07	2.00	Pass	
			RB12#13	21.12	-2.5	18.62	0.07	2.00	Pass	
		HCH	RB25#0	21.04	-2.5	18.54	0.07	2.00	Pass	
			RB1#0	22.61	-2.5	20.11	0.10	2.00	Pass	
			RB1#13	22.19	-2.5	19.69	0.09	2.00	Pass	
			RB1#24	22.44	-2.5	19.94	0.10	2.00	Pass	
			RB12#0	21.17	-2.5	18.67	0.07	2.00	Pass	
RB12#6	21.18		-2.5	18.68	0.07	2.00	Pass			
RB12#13	21.21		-2.5	18.71	0.07	2.00	Pass			
	RB25#0	21.23	-2.5	18.73	0.07	2.00	Pass			
	RB1#0	23.06	-2.5	20.56	0.11	3.00	Pass			
	RB1#3	23.09	-2.5	20.59	0.11	3.00	Pass			
	RB1#5	23.00	-2.5	20.50	0.11	3.00	Pass			
	RB3#0	23.05	-2.5	20.55	0.11	3.00	Pass			
	RB3#2	23.04	-2.5	20.54	0.11	3.00	Pass			
	RB3#3	23.07	-2.5	20.57	0.11	3.00	Pass			
RB6#0	21.95	-2.5	19.45	0.09	3.00	Pass				

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		3	MCH	RB1#0	22.90	-2.5	20.40	0.11	3.00	Pass
				RB1#3	22.99	-2.5	20.49	0.11	3.00	Pass
				RB1#5	22.9	-2.5	20.40	0.11	3.00	Pass
				RB3#0	23.01	-2.5	20.51	0.11	3.00	Pass
				RB3#2	23.00	-2.5	20.50	0.11	3.00	Pass
				RB3#3	23.01	-2.5	20.51	0.11	3.00	Pass
				RB6#0	21.9	-2.5	19.40	0.09	3.00	Pass
			HCH	RB1#0	22.87	-2.5	20.37	0.11	3.00	Pass
				RB1#3	22.99	-2.5	20.49	0.11	3.00	Pass
				RB1#5	22.94	-2.5	20.44	0.11	3.00	Pass
				RB3#0	22.98	-2.5	20.48	0.11	3.00	Pass
				RB3#2	22.99	-2.5	20.49	0.11	3.00	Pass
				RB3#3	23.00	-2.5	20.50	0.11	3.00	Pass
				RB6#0	21.93	-2.5	19.43	0.09	3.00	Pass
		5	LCH	RB1#0	22.92	-2.5	20.42	0.11	3.00	Pass
				RB1#7	22.94	-2.5	20.44	0.11	3.00	Pass
				RB1#14	22.88	-2.5	20.38	0.11	3.00	Pass
				RB8#0	21.99	-2.5	19.49	0.09	3.00	Pass
				RB8#4	21.99	-2.5	19.49	0.09	3.00	Pass
				RB8#7	21.98	-2.5	19.48	0.09	3.00	Pass
				RB15#0	22.00	-2.5	19.50	0.09	3.00	Pass
			MCH	RB1#0	22.89	-2.5	20.39	0.11	3.00	Pass
				RB1#7	22.95	-2.5	20.45	0.11	3.00	Pass
				RB1#14	22.83	-2.5	20.33	0.11	3.00	Pass
				RB8#0	21.96	-2.5	19.46	0.09	3.00	Pass
				RB8#4	21.97	-2.5	19.47	0.09	3.00	Pass
				RB8#7	21.93	-2.5	19.43	0.09	3.00	Pass
				RB15#0	21.94	-2.5	19.44	0.09	3.00	Pass
		HCH	RB1#0	22.81	-2.5	20.31	0.11	3.00	Pass	
			RB1#7	22.93	-2.5	20.43	0.11	3.00	Pass	
			RB1#14	22.91	-2.5	20.41	0.11	3.00	Pass	
			RB8#0	21.95	-2.5	19.45	0.09	3.00	Pass	
			RB8#4	21.98	-2.5	19.48	0.09	3.00	Pass	
RB8#7	21.98		-2.5	19.48	0.09	3.00	Pass			
RB15#0	21.96		-2.5	19.46	0.09	3.00	Pass			
LCH	RB1#0	23.13	-2.5	20.63	0.12	3.00	Pass			
	RB1#13	23.11	-2.5	20.61	0.12	3.00	Pass			
	RB1#24	23.07	-2.5	20.57	0.11	3.00	Pass			
	RB12#0	22.04	-2.5	19.54	0.09	3.00	Pass			
	RB12#6	22.04	-2.5	19.54	0.09	3.00	Pass			

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict	
		10		RB12#13	22.04	-2.5	19.54	0.09	3.00	Pass	
				RB25#0	22.01	-2.5	19.51	0.09	3.00	Pass	
			MCH	RB1#0	22.96	-2.5	20.46	0.11	3.00	Pass	
				RB1#13	22.98	-2.5	20.48	0.11	3.00	Pass	
				RB1#24	22.90	-2.5	20.40	0.11	3.00	Pass	
				RB12#0	22.00	-2.5	19.50	0.09	3.00	Pass	
				RB12#6	22.00	-2.5	19.50	0.09	3.00	Pass	
				RB12#13	21.96	-2.5	19.46	0.09	3.00	Pass	
			HCH	RB25#0	21.94	-2.5	19.44	0.09	3.00	Pass	
				RB1#0	22.92	-2.5	20.42	0.11	3.00	Pass	
				RB1#13	22.97	-2.5	20.47	0.11	3.00	Pass	
				RB1#24	23.03	-2.5	20.53	0.11	3.00	Pass	
		RB12#0		21.98	-2.5	19.48	0.09	3.00	Pass		
		RB12#6		21.99	-2.5	19.49	0.09	3.00	Pass		
		10		LCH	RB12#13	22.01	-2.5	19.51	0.09	3.00	Pass
					RB25#0	21.95	-2.5	19.45	0.09	3.00	Pass
					RB1#0	22.96	-2.5	20.46	0.11	3.00	Pass
					RB1#25	22.96	-2.5	20.46	0.11	3.00	Pass
					RB1#49	22.89	-2.5	20.39	0.11	3.00	Pass
					RB25#0	21.98	-2.5	19.48	0.09	3.00	Pass
				MCH	RB25#13	21.99	-2.5	19.49	0.09	3.00	Pass
					RB25#25	21.93	-2.5	19.43	0.09	3.00	Pass
					RB50#0	21.98	-2.5	19.48	0.09	3.00	Pass
					RB1#0	23.00	-2.5	20.50	0.11	3.00	Pass
	RB1#25				22.97	-2.5	20.47	0.11	3.00	Pass	
	RB1#49				22.89	-2.5	20.39	0.11	3.00	Pass	
	HCH	RB25#0	21.96	-2.5	19.46	0.09	3.00	Pass			
		RB25#13	21.91	-2.5	19.41	0.09	3.00	Pass			
		RB25#25	21.88	-2.5	19.38	0.09	3.00	Pass			
		RB50#0	21.95	-2.5	19.45	0.09	3.00	Pass			
		RB1#0	22.93	-2.5	20.43	0.11	3.00	Pass			
		RB1#25	22.83	-2.5	20.33	0.11	3.00	Pass			
	16QAM	1.4	LCH	RB1#49	22.95	-2.5	20.45	0.11	3.00	Pass	
RB25#0				21.91	-2.5	19.41	0.09	3.00	Pass		
RB25#13				21.91	-2.5	19.41	0.09	3.00	Pass		
				RB25#25	21.92	-2.5	19.42	0.09	3.00	Pass	
				RB50#0	21.95	-2.5	19.45	0.09	3.00	Pass	
				RB1#0	22.07	-2.5	19.57	0.09	3.00	Pass	
				RB1#3	22.15	-2.5	19.65	0.09	3.00	Pass	
				RB1#5	22.09	-2.5	19.59	0.09	3.00	Pass	

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		3		RB3#0	22.08	-2.5	19.58	0.09	3.00	Pass
				RB3#2	22.06	-2.5	19.56	0.09	3.00	Pass
				RB3#3	22.11	-2.5	19.61	0.09	3.00	Pass
				RB6#0	21.13	-2.5	18.63	0.07	3.00	Pass
			MCH	RB1#0	22.29	-2.5	19.79	0.10	3.00	Pass
				RB1#3	22.32	-2.5	19.82	0.10	3.00	Pass
				RB1#5	22.28	-2.5	19.78	0.10	3.00	Pass
				RB3#0	22.18	-2.5	19.68	0.09	3.00	Pass
				RB3#2	22.15	-2.5	19.65	0.09	3.00	Pass
				RB3#3	22.17	-2.5	19.67	0.09	3.00	Pass
				RB6#0	20.83	-2.5	18.33	0.07	3.00	Pass
			HCH	RB1#0	21.93	-2.5	19.43	0.09	3.00	Pass
				RB1#3	21.99	-2.5	19.49	0.09	3.00	Pass
				RB1#5	21.95	-2.5	19.45	0.09	3.00	Pass
				RB3#0	22.15	-2.5	19.65	0.09	3.00	Pass
				RB3#2	22.12	-2.5	19.62	0.09	3.00	Pass
		RB3#3		22.12	-2.5	19.62	0.09	3.00	Pass	
		RB6#0		21.11	-2.5	18.61	0.07	3.00	Pass	
		5	LCH	RB1#0	21.84	-2.5	19.34	0.09	3.00	Pass
				RB1#7	21.87	-2.5	19.37	0.09	3.00	Pass
				RB1#14	21.81	-2.5	19.31	0.09	3.00	Pass
				RB8#0	21.11	-2.5	18.61	0.07	3.00	Pass
				RB8#4	21.13	-2.5	18.63	0.07	3.00	Pass
				RB8#7	21.12	-2.5	18.62	0.07	3.00	Pass
			RB15#0	21.06	-2.5	18.56	0.07	3.00	Pass	
			MCH	RB1#0	22.29	-2.5	19.79	0.10	3.00	Pass
				RB1#7	22.31	-2.5	19.81	0.10	3.00	Pass
				RB1#14	22.22	-2.5	19.72	0.09	3.00	Pass
				RB8#0	21.08	-2.5	18.58	0.07	3.00	Pass
				RB8#4	21.08	-2.5	18.58	0.07	3.00	Pass
				RB8#7	21.04	-2.5	18.54	0.07	3.00	Pass
		RB15#0		21.00	-2.5	18.50	0.07	3.00	Pass	
		HCH	RB1#0	21.91	-2.5	19.41	0.09	3.00	Pass	
			RB1#7	21.96	-2.5	19.46	0.09	3.00	Pass	
			RB1#14	21.87	-2.5	19.37	0.09	3.00	Pass	
			RB8#0	21.01	-2.5	18.51	0.07	3.00	Pass	
			RB8#4	21.04	-2.5	18.54	0.07	3.00	Pass	
			RB8#7	21.01	-2.5	18.51	0.07	3.00	Pass	
			RB15#0	20.94	-2.5	18.44	0.07	3.00	Pass	
		LCH	RB1#0	22.18	-2.5	19.68	0.09	3.00	Pass	

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict	
		10		RB1#13	22.18	-2.5	19.68	0.09	3.00	Pass	
				RB1#24	22.21	-2.5	19.71	0.09	3.00	Pass	
				RB12#0	21.16	-2.5	18.66	0.07	3.00	Pass	
				RB12#6	21.15	-2.5	18.65	0.07	3.00	Pass	
				RB12#13	21.17	-2.5	18.67	0.07	3.00	Pass	
				RB25#0	21.08	-2.5	18.58	0.07	3.00	Pass	
			MCH	RB1#0	22.50	-2.5	20.00	0.10	3.00	Pass	
				RB1#13	22.49	-2.5	19.99	0.10	3.00	Pass	
				RB1#24	22.41	-2.5	19.91	0.10	3.00	Pass	
				RB12#0	21.16	-2.5	18.66	0.07	3.00	Pass	
				RB12#6	21.16	-2.5	18.66	0.07	3.00	Pass	
				RB12#13	21.13	-2.5	18.63	0.07	3.00	Pass	
			HCH	RB25#0	21.02	-2.5	18.52	0.07	3.00	Pass	
				RB1#0	21.98	-2.5	19.48	0.09	3.00	Pass	
				RB1#13	22.06	-2.5	19.56	0.09	3.00	Pass	
				RB1#24	22.06	-2.5	19.56	0.09	3.00	Pass	
				RB12#0	21.08	-2.5	18.58	0.07	3.00	Pass	
				RB12#6	21.07	-2.5	18.57	0.07	3.00	Pass	
			10	LCH	RB12#13	21.08	-2.5	18.58	0.07	3.00	Pass
					RB25#0	20.94	-2.5	18.44	0.07	3.00	Pass
					RB1#0	21.89	-2.5	19.39	0.09	3.00	Pass
		RB1#25			21.93	-2.5	19.43	0.09	3.00	Pass	
		RB1#49			21.83	-2.5	19.33	0.09	3.00	Pass	
		RB25#0			21.04	-2.5	18.54	0.07	3.00	Pass	
		MCH		RB25#13	21.02	-2.5	18.52	0.07	3.00	Pass	
				RB25#25	20.98	-2.5	18.48	0.07	3.00	Pass	
				RB50#0	20.99	-2.5	18.49	0.07	3.00	Pass	
				RB1#0	22.40	-2.5	19.90	0.10	3.00	Pass	
				RB1#25	22.30	-2.5	19.80	0.10	3.00	Pass	
				RB1#49	22.23	-2.5	19.73	0.09	3.00	Pass	
		HCH		RB25#0	21.01	-2.5	18.51	0.07	3.00	Pass	
				RB25#13	20.98	-2.5	18.48	0.07	3.00	Pass	
				RB25#25	20.99	-2.5	18.49	0.07	3.00	Pass	
			RB50#0	20.98	-2.5	18.48	0.07	3.00	Pass		
			RB1#0	21.96	-2.5	19.46	0.09	3.00	Pass		
			RB1#25	21.89	-2.5	19.39	0.09	3.00	Pass		
	RB1#49	21.94	-2.5	19.44	0.09	3.00	Pass				
	RB25#0	21.02	-2.5	18.52	0.07	3.00	Pass				
	RB25#13	21.05	-2.5	18.55	0.07	3.00	Pass				
	RB25#25	21.06	-2.5	18.56	0.07	3.00	Pass				

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
Band 17	QPSK	5 MHz	LCH	RB50#0	21.02	-2.5	18.52	0.07	3.00	Pass
				RB1#0	23.1	-2.5	20.60	0.11	3.00	Pass
				RB1#13	23.07	-2.5	20.57	0.11	3.00	Pass
				RB1#24	23.02	-2.5	20.52	0.11	3.00	Pass
				RB12#0	22.03	-2.5	19.53	0.09	3.00	Pass
				RB12#6	22	-2.5	19.50	0.09	3.00	Pass
				RB12#13	21.99	-2.5	19.49	0.09	3.00	Pass
			RB25#0	21.98	-2.5	19.48	0.09	3.00	Pass	
			MCH	RB1#0	22.94	-2.5	20.44	0.11	3.00	Pass
				RB1#13	22.94	-2.5	20.44	0.11	3.00	Pass
				RB1#24	22.94	-2.5	20.44	0.11	3.00	Pass
				RB12#0	21.99	-2.5	19.49	0.09	3.00	Pass
				RB12#6	21.99	-2.5	19.49	0.09	3.00	Pass
				RB12#13	21.98	-2.5	19.48	0.09	3.00	Pass
				RB25#0	21.93	-2.5	19.43	0.09	3.00	Pass
			HCH	RB1#0	22.94	-2.5	20.44	0.11	3.00	Pass
				RB1#13	23	-2.5	20.50	0.11	3.00	Pass
				RB1#24	23.03	-2.5	20.53	0.11	3.00	Pass
				RB12#0	22.02	-2.5	19.52	0.09	3.00	Pass
				RB12#6	22.02	-2.5	19.52	0.09	3.00	Pass
				RB12#13	22.04	-2.5	19.54	0.09	3.00	Pass
		RB25#0		21.98	-2.5	19.48	0.09	3.00	Pass	
		10 MHz	LCH	RB1#0	22.94	-2.5	20.44	0.11	3.00	Pass
				RB1#25	22.91	-2.5	20.41	0.11	3.00	Pass
				RB1#49	22.9	-2.5	20.40	0.11	3.00	Pass
				RB25#0	21.95	-2.5	19.45	0.09	3.00	Pass
				RB25#13	21.93	-2.5	19.43	0.09	3.00	Pass
				RB25#25	21.92	-2.5	19.42	0.09	3.00	Pass
				RB50#0	21.99	-2.5	19.49	0.09	3.00	Pass
			MCH	RB1#0	23.02	-2.5	20.52	0.11	3.00	Pass
				RB1#25	22.94	-2.5	20.44	0.11	3.00	Pass
				RB1#49	23	-2.5	20.50	0.11	3.00	Pass
				RB25#0	21.95	-2.5	19.45	0.09	3.00	Pass
				RB25#13	21.93	-2.5	19.43	0.09	3.00	Pass
				RB25#25	21.94	-2.5	19.44	0.09	3.00	Pass
				RB50#0	21.99	-2.5	19.49	0.09	3.00	Pass
			HCH	RB1#0	22.94	-2.5	20.44	0.11	3.00	Pass
				RB1#25	22.88	-2.5	20.38	0.11	3.00	Pass
				RB1#49	22.95	-2.5	20.45	0.11	3.00	Pass
				RB25#0	21.94	-2.5	19.44	0.09	3.00	Pass

Test Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
	16-QAM	5 MHz		RB25#13	21.94	-2.5	19.44	0.09	3.00	Pass
				RB25#25	21.95	-2.5	19.45	0.09	3.00	Pass
				RB50#0	21.99	-2.5	19.49	0.09	3.00	Pass
			LCH	RB1#0	22.22	-2.5	19.72	0.09	3.00	Pass
				RB1#13	22.17	-2.5	19.67	0.09	3.00	Pass
				RB1#24	22.12	-2.5	19.62	0.09	3.00	Pass
				RB12#0	21.13	-2.5	18.63	0.07	3.00	Pass
				RB12#6	21.12	-2.5	18.62	0.07	3.00	Pass
				RB12#13	21.1	-2.5	18.60	0.07	3.00	Pass
		MCH	RB25#0	21.03	-2.5	18.53	0.07	3.00	Pass	
			RB1#0	22.47	-2.5	19.97	0.10	3.00	Pass	
			RB1#13	22.48	-2.5	19.98	0.10	3.00	Pass	
			RB1#24	22.45	-2.5	19.95	0.10	3.00	Pass	
			RB12#0	21.17	-2.5	18.67	0.07	3.00	Pass	
			RB12#6	21.17	-2.5	18.67	0.07	3.00	Pass	
		HCH	RB12#13	21.15	-2.5	18.65	0.07	3.00	Pass	
			RB25#0	21.03	-2.5	18.53	0.07	3.00	Pass	
			RB1#0	22.02	-2.5	19.52	0.09	3.00	Pass	
			RB1#13	22.08	-2.5	19.58	0.09	3.00	Pass	
			RB1#24	22.07	-2.5	19.57	0.09	3.00	Pass	
			RB12#0	21.11	-2.5	18.61	0.07	3.00	Pass	
		10 MHz	LCH	RB12#6	21.11	-2.5	18.61	0.07	3.00	Pass
				RB12#13	21.11	-2.5	18.61	0.07	3.00	Pass
				RB25#0	20.97	-2.5	18.47	0.07	3.00	Pass
				RB1#0	21.92	-2.5	19.42	0.09	3.00	Pass
				RB1#25	21.83	-2.5	19.33	0.09	3.00	Pass
				RB1#49	21.82	-2.5	19.32	0.09	3.00	Pass
			MCH	RB25#0	21.02	-2.5	18.52	0.07	3.00	Pass
				RB25#13	20.98	-2.5	18.48	0.07	3.00	Pass
				RB25#25	21	-2.5	18.50	0.07	3.00	Pass
RB50#0	21			-2.5	18.50	0.07	3.00	Pass		
RB1#0	22.36			-2.5	19.86	0.10	3.00	Pass		
RB1#25	22.28			-2.5	19.78	0.10	3.00	Pass		
RB1#49	22.32			-2.5	19.82	0.10	3.00	Pass		
HCH	RB25#0		21.04	-2.5	18.54	0.07	3.00	Pass		
	RB25#13		21.01	-2.5	18.51	0.07	3.00	Pass		
	RB25#25	21.03	-2.5	18.53	0.07	3.00	Pass			
	RB50#0	21.02	-2.5	18.52	0.07	3.00	Pass			
	RB1#0	22.02	-2.5	19.52	0.09	3.00	Pass			
				RB1#25	21.94	-2.5	19.44	0.09	3.00	Pass

Test Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
Band 28	QPSK	3 MHz	LCH	RB1#49	21.95	-2.5	19.45	0.09	3.00	Pass
				RB25#0	21.06	-2.5	18.56	0.07	3.00	Pass
				RB25#13	21.07	-2.5	18.57	0.07	3.00	Pass
				RB25#25	21.09	-2.5	18.59	0.07	3.00	Pass
				RB50#0	21.05	-2.5	18.55	0.07	3.00	Pass
		3 MHz	MCH	RB1#0	22.43	-2.5	19.93	0.10	3.00	Pass
				RB1#7	22.44	-2.5	19.94	0.10	3.00	Pass
				RB1#14	22.35	-2.5	19.85	0.10	3.00	Pass
				RB8#0	21.46	-2.5	18.96	0.08	3.00	Pass
				RB8#4	21.45	-2.5	18.95	0.08	3.00	Pass
				RB8#7	21.43	-2.5	18.93	0.08	3.00	Pass
			RB15#0	21.44	-2.5	18.94	0.08	3.00	Pass	
			MCH	RB1#0	22.36	-2.5	19.86	0.10	3.00	Pass
				RB1#7	22.42	-2.5	19.92	0.10	3.00	Pass
				RB1#14	22.36	-2.5	19.86	0.10	3.00	Pass
				RB8#0	21.4	-2.5	18.90	0.08	3.00	Pass
				RB8#4	21.39	-2.5	18.89	0.08	3.00	Pass
		RB8#7		21.41	-2.5	18.91	0.08	3.00	Pass	
		3 MHz	HCH	RB1#0	22.39	-2.5	19.89	0.10	3.00	Pass
				RB1#7	22.47	-2.5	19.97	0.10	3.00	Pass
				RB1#14	22.5	-2.5	20.00	0.10	3.00	Pass
				RB8#0	21.47	-2.5	18.97	0.08	3.00	Pass
				RB8#4	21.5	-2.5	19.00	0.08	3.00	Pass
				RB8#7	21.52	-2.5	19.02	0.08	3.00	Pass
		5 MHz	LCH	RB1#0	22.63	-2.5	20.13	0.10	3.00	Pass
				RB1#13	22.54	-2.5	20.04	0.10	3.00	Pass
				RB1#24	22.45	-2.5	19.95	0.10	3.00	Pass
				RB12#0	21.48	-2.5	18.98	0.08	3.00	Pass
RB12#6	21.47			-2.5	18.97	0.08	3.00	Pass		
RB12#13	21.43			-2.5	18.93	0.08	3.00	Pass		
MCH	RB25#0		21.42	-2.5	18.92	0.08	3.00	Pass		
	RB1#0		22.44	-2.5	19.94	0.10	3.00	Pass		
	RB1#13		22.44	-2.5	19.94	0.10	3.00	Pass		
	RB1#24		22.36	-2.5	19.86	0.10	3.00	Pass		
	RB12#0		21.4	-2.5	18.90	0.08	3.00	Pass		
	RB12#6		21.4	-2.5	18.90	0.08	3.00	Pass		
	RB12#13		21.39	-2.5	18.89	0.08	3.00	Pass		
RB25#0	21.32	-2.5	18.82	0.08	3.00	Pass				

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		10 MHz	HCH	RB1#0	22.57	-2.5	20.07	0.10	3.00	Pass
				RB1#13	22.63	-2.5	20.13	0.10	3.00	Pass
				RB1#24	22.63	-2.5	20.13	0.10	3.00	Pass
				RB12#0	21.58	-2.5	19.08	0.08	3.00	Pass
				RB12#6	21.6	-2.5	19.10	0.08	3.00	Pass
				RB12#13	21.63	-2.5	19.13	0.08	3.00	Pass
				RB25#0	21.57	-2.5	19.07	0.08	3.00	Pass
			LCH	RB1#0	22.5	-2.5	20.00	0.10	3.00	Pass
				RB1#25	22.32	-2.5	19.82	0.10	3.00	Pass
				RB1#49	22.38	-2.5	19.88	0.10	3.00	Pass
				RB25#0	21.41	-2.5	18.91	0.08	3.00	Pass
				RB25#13	21.37	-2.5	18.87	0.08	3.00	Pass
				RB25#25	21.36	-2.5	18.86	0.08	3.00	Pass
				RB50#0	21.38	-2.5	18.88	0.08	3.00	Pass
		MCH	RB1#0	22.43	-2.5	19.93	0.10	3.00	Pass	
			RB1#25	22.42	-2.5	19.92	0.10	3.00	Pass	
			RB1#49	22.3	-2.5	19.80	0.10	3.00	Pass	
			RB25#0	21.32	-2.5	18.82	0.08	3.00	Pass	
			RB25#13	21.37	-2.5	18.87	0.08	3.00	Pass	
			RB25#25	21.33	-2.5	18.83	0.08	3.00	Pass	
			RB50#0	21.36	-2.5	18.86	0.08	3.00	Pass	
		HCH	RB1#0	22.54	-2.5	20.04	0.10	3.00	Pass	
			RB1#25	22.49	-2.5	19.99	0.10	3.00	Pass	
			RB1#49	22.64	-2.5	20.14	0.10	3.00	Pass	
			RB25#0	21.49	-2.5	18.99	0.08	3.00	Pass	
			RB25#13	21.52	-2.5	19.02	0.08	3.00	Pass	
			RB25#25	21.55	-2.5	19.05	0.08	3.00	Pass	
			RB50#0	21.54	-2.5	19.04	0.08	3.00	Pass	
		15MHz	LCH	RB1#0	22.54	-2.5	20.04	0.10	3.00	Pass
				RB1#38	22.39	-2.5	19.89	0.10	3.00	Pass
				RB1#74	22.4	-2.5	19.90	0.10	3.00	Pass
				RB36#0	21.44	-2.5	18.94	0.08	3.00	Pass
				RB36#19	21.41	-2.5	18.91	0.08	3.00	Pass
				RB36#39	21.41	-2.5	18.91	0.08	3.00	Pass
				RB75#0	21.46	-2.5	18.96	0.08	3.00	Pass
			MCH	RB1#0	22.45	-2.5	19.95	0.10	3.00	Pass
				RB1#38	22.31	-2.5	19.81	0.10	3.00	Pass
				RB1#74	22.51	-2.5	20.01	0.10	3.00	Pass
				RB36#0	21.44	-2.5	18.94	0.08	3.00	Pass
				RB36#19	21.37	-2.5	18.87	0.08	3.00	Pass

Test Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		20 MHz		RB36#39	21.36	-2.5	18.86	0.08	3.00	Pass
				RB75#0	21.43	-2.5	18.93	0.08	3.00	Pass
			HCH	RB1#0	22.6	-2.5	20.10	0.10	3.00	Pass
				RB1#38	22.66	-2.5	20.16	0.10	3.00	Pass
				RB1#74	22.77	-2.5	20.27	0.11	3.00	Pass
				RB36#0	21.54	-2.5	19.04	0.08	3.00	Pass
				RB36#19	21.59	-2.5	19.09	0.08	3.00	Pass
				RB36#39	21.59	-2.5	19.09	0.08	3.00	Pass
				RB75#0	21.59	-2.5	19.09	0.08	3.00	Pass
			LCH	RB1#0	22.5	-2.5	20.00	0.10	3.00	Pass
				RB1#50	22.34	-2.5	19.84	0.10	3.00	Pass
				RB1#99	22.39	-2.5	19.89	0.10	3.00	Pass
				RB50#0	21.42	-2.5	18.92	0.08	3.00	Pass
				RB50#25	21.36	-2.5	18.86	0.08	3.00	Pass
				RB50#50	21.33	-2.5	18.83	0.08	3.00	Pass
		RB100#0		21.38	-2.5	18.88	0.08	3.00	Pass	
		MCH	RB1#0	22.45	-2.5	19.95	0.10	3.00	Pass	
			RB1#50	22.39	-2.5	19.89	0.10	3.00	Pass	
			RB1#99	22.5	-2.5	20.00	0.10	3.00	Pass	
			RB50#0	21.51	-2.5	19.01	0.08	3.00	Pass	
			RB50#25	21.46	-2.5	18.96	0.08	3.00	Pass	
			RB50#50	21.42	-2.5	18.92	0.08	3.00	Pass	
			RB100#0	21.45	-2.5	18.95	0.08	3.00	Pass	
		HCH	RB1#0	22.54	-2.5	20.04	0.10	3.00	Pass	
			RB1#50	22.57	-2.5	20.07	0.10	3.00	Pass	
			RB1#99	22.69	-2.5	20.19	0.10	3.00	Pass	
			RB50#0	21.53	-2.5	19.03	0.08	3.00	Pass	
			RB50#25	21.48	-2.5	18.98	0.08	3.00	Pass	
			RB50#50	21.54	-2.5	19.04	0.08	3.00	Pass	
			RB100#0	21.53	-2.5	19.03	0.08	3.00	Pass	
Band 28	16QAM	3 MHz	LCH	RB1#0	21.2	-2.5	18.70	0.07	3.00	Pass
				RB1#7	21.25	-2.5	18.75	0.07	3.00	Pass
				RB1#14	21.19	-2.5	18.69	0.07	3.00	Pass
				RB8#0	20.54	-2.5	18.04	0.06	3.00	Pass
				RB8#4	20.56	-2.5	18.06	0.06	3.00	Pass
				RB8#7	20.54	-2.5	18.04	0.06	3.00	Pass
				RB15#0	20.47	-2.5	17.97	0.06	3.00	Pass
			MCH	RB1#0	21.52	-2.5	19.02	0.08	3.00	Pass
				RB1#7	21.58	-2.5	19.08	0.08	3.00	Pass
				RB1#14	21.55	-2.5	19.05	0.08	3.00	Pass

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		5MHz		RB8#0	20.43	-2.5	17.93	0.06	3.00	Pass
				RB8#4	20.42	-2.5	17.92	0.06	3.00	Pass
				RB8#7	20.43	-2.5	17.93	0.06	3.00	Pass
				RB15#0	20.33	-2.5	17.83	0.06	3.00	Pass
			HCH	RB1#0	21.38	-2.5	18.88	0.08	3.00	Pass
				RB1#7	21.39	-2.5	18.89	0.08	3.00	Pass
				RB1#14	21.33	-2.5	18.83	0.08	3.00	Pass
				RB8#0	20.53	-2.5	18.03	0.06	3.00	Pass
				RB8#4	20.54	-2.5	18.04	0.06	3.00	Pass
				RB8#7	20.52	-2.5	18.02	0.06	3.00	Pass
				RB15#0	20.43	-2.5	17.93	0.06	3.00	Pass
				LCH	RB1#0	21.56	-2.5	19.06	0.08	3.00
			RB1#13		21.54	-2.5	19.04	0.08	3.00	Pass
			RB1#24		21.46	-2.5	18.96	0.08	3.00	Pass
			RB12#0		20.57	-2.5	18.07	0.06	3.00	Pass
			RB12#6		20.55	-2.5	18.05	0.06	3.00	Pass
		RB12#13	20.55		-2.5	18.05	0.06	3.00	Pass	
		RB25#0	20.46		-2.5	17.96	0.06	3.00	Pass	
		MCH	RB1#0	21.76	-2.5	19.26	0.08	3.00	Pass	
			RB1#13	21.78	-2.5	19.28	0.08	3.00	Pass	
			RB1#24	21.74	-2.5	19.24	0.08	3.00	Pass	
			RB12#0	20.49	-2.5	17.99	0.06	3.00	Pass	
			RB12#6	20.47	-2.5	17.97	0.06	3.00	Pass	
			RB12#13	20.47	-2.5	17.97	0.06	3.00	Pass	
			RB25#0	20.37	-2.5	17.87	0.06	3.00	Pass	
		HCH	RB1#0	21.57	-2.5	19.07	0.08	3.00	Pass	
			RB1#13	21.62	-2.5	19.12	0.08	3.00	Pass	
			RB1#24	21.55	-2.5	19.05	0.08	3.00	Pass	
			RB12#0	20.61	-2.5	18.11	0.06	3.00	Pass	
			RB12#6	20.64	-2.5	18.14	0.07	3.00	Pass	
			RB12#13	20.65	-2.5	18.15	0.07	3.00	Pass	
			RB25#0	20.49	-2.5	17.99	0.06	3.00	Pass	
		10MHz	LCH	RB1#0	21.28	-2.5	18.78	0.08	3.00	Pass
				RB1#25	21.21	-2.5	18.71	0.07	3.00	Pass
				RB1#49	21.18	-2.5	18.68	0.07	3.00	Pass
				RB25#0	20.45	-2.5	17.95	0.06	3.00	Pass
				RB25#13	20.42	-2.5	17.92	0.06	3.00	Pass
				RB25#25	20.41	-2.5	17.91	0.06	3.00	Pass
				RB50#0	20.41	-2.5	17.91	0.06	3.00	Pass
			MCH	RB1#0	21.57	-2.5	19.07	0.08	3.00	Pass

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
		15 MHz		RB1#25	21.58	-2.5	19.08	0.08	3.00	Pass
				RB1#49	21.53	-2.5	19.03	0.08	3.00	Pass
				RB25#0	20.32	-2.5	17.82	0.06	3.00	Pass
				RB25#13	20.37	-2.5	17.87	0.06	3.00	Pass
				RB25#25	20.36	-2.5	17.86	0.06	3.00	Pass
				RB50#0	20.34	-2.5	17.84	0.06	3.00	Pass
			HCH	RB1#0	21.4	-2.5	18.90	0.08	3.00	Pass
				RB1#25	21.42	-2.5	18.92	0.08	3.00	Pass
				RB1#49	21.48	-2.5	18.98	0.08	3.00	Pass
				RB25#0	20.54	-2.5	18.04	0.06	3.00	Pass
				RB25#13	20.58	-2.5	18.08	0.06	3.00	Pass
				RB25#25	20.62	-2.5	18.12	0.06	3.00	Pass
		20 MHz	LCH	RB1#0	21.3	-2.5	18.80	0.08	3.00	Pass
				RB1#38	21.23	-2.5	18.73	0.07	3.00	Pass
				RB1#74	21.14	-2.5	18.64	0.07	3.00	Pass
				RB36#0	20.42	-2.5	17.92	0.06	3.00	Pass
				RB36#19	20.41	-2.5	17.91	0.06	3.00	Pass
				RB36#39	20.39	-2.5	17.89	0.06	3.00	Pass
			MCH	RB75#0	20.43	-2.5	17.93	0.06	3.00	Pass
				RB1#0	21.6	-2.5	19.10	0.08	3.00	Pass
				RB1#38	21.56	-2.5	19.06	0.08	3.00	Pass
				RB1#74	21.58	-2.5	19.08	0.08	3.00	Pass
				RB36#0	20.42	-2.5	17.92	0.06	3.00	Pass
				RB36#19	20.36	-2.5	17.86	0.06	3.00	Pass
		HCH	RB36#39	20.35	-2.5	17.85	0.06	3.00	Pass	
			RB75#0	20.37	-2.5	17.87	0.06	3.00	Pass	
			RB1#0	21.74	-2.5	19.24	0.08	3.00	Pass	
			RB1#38	21.68	-2.5	19.18	0.08	3.00	Pass	
			RB1#74	21.74	-2.5	19.24	0.08	3.00	Pass	
			RB36#0	20.46	-2.5	17.96	0.06	3.00	Pass	
		LCH	RB36#19	20.47	-2.5	17.97	0.06	3.00	Pass	
			RB36#39	20.52	-2.5	18.02	0.06	3.00	Pass	
			RB75#0	20.51	-2.5	18.01	0.06	3.00	Pass	
			RB1#0	21.91	-2.5	19.41	0.09	3.00	Pass	
			RB1#50	21.74	-2.5	19.24	0.08	3.00	Pass	
			RB1#99	21.79	-2.5	19.29	0.08	3.00	Pass	
			RB50#0	20.47	-2.5	17.97	0.06	3.00	Pass	
			RB50#25	20.38	-2.5	17.88	0.06	3.00	Pass	
			RB50#50	20.35	-2.5	17.85	0.06	3.00	Pass	

Tes Band	Test Model	Test Bandwidth	Test Channel	Test RB (Size#Offset)	Conducted Output Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
				RB100#0	20.41	-2.5	17.91	0.06	3.00	Pass
			MCH	RB1#0	21.69	-2.5	19.19	0.08	3.00	Pass
				RB1#50	21.76	-2.5	19.26	0.08	3.00	Pass
				RB1#99	21.69	-2.5	19.19	0.08	3.00	Pass
				RB50#0	20.51	-2.5	18.01	0.06	3.00	Pass
				RB50#25	20.48	-2.5	17.98	0.06	3.00	Pass
				RB50#50	20.47	-2.5	17.97	0.06	3.00	Pass
				RB100#0	20.45	-2.5	17.95	0.06	3.00	Pass
			HCH	RB1#0	21.89	-2.5	19.39	0.09	3.00	Pass
				RB1#50	21.7	-2.5	19.20	0.08	3.00	Pass
				RB1#99	21.87	-2.5	19.37	0.09	3.00	Pass
				RB50#0	20.52	-2.5	18.02	0.06	3.00	Pass
				RB50#25	20.43	-2.5	17.93	0.06	3.00	Pass
				RB50#50	20.48	-2.5	17.98	0.06	3.00	Pass
				RB100#0	20.52	-2.5	18.02	0.06	3.00	Pass

A.2 Peak to Average Ratio

Note: In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. For GSM 1900, GPRS 1900 and EGPRS 1900 were used peak power to demonstrate compliance, a PAPR measurement is not required.

WCDMA Test Data

Test Band	Test Channel	Peak to Average ratio (dBm)	Limit (dBm)	Verdict
Band 2	LCH	2.99	13	Pass
	MCH	2.71	13	Pass
	HCH	2.49	13	Pass
Band 4	LCH	2.70	13	Pass
	MCH	2.71	13	Pass
	HCH	2.70	13	Pass

Test Band	Test Model	Test Bandwidth	Test Channel	Test RB(Size#Offset)	Peak to Average ratio (dBm)	Limit (dBm)	Verdict
LTE Band 2	QPSK	20 MHz	LCH	RB1#0	3.57	13	Pass
				RB100#0	5.07	13	Pass
			MCH	RB1#0	3.36	13	Pass
				RB100#0	4.84	13	Pass
			HCH	RB1#0	3.33	13	Pass
				RB100#0	4.64	13	Pass
	16-QAM	20 MHz	LCH	RB1#0	4.58	13	Pass
				RB100#0	6.00	13	Pass
			MCH	RB1#0	4.41	13	Pass
				RB100#0	5.74	13	Pass
			HCH	RB1#0	4.49	13	Pass
				RB100#0	5.51	13	Pass
LTE Band 4	QPSK	20 MHz	LCH	RB1#0	3.65	13	Pass
				RB100#0	4.99	13	Pass
			MCH	RB1#0	3.39	13	Pass
				RB100#0	5.07	13	Pass
			HCH	RB1#0	3.65	13	Pass
				RB100#0	5.22	13	Pass
	16-QAM	20 MHz	LCH	RB1#0	4.52	13	Pass
				RB100#0	5.91	13	Pass
			MCH	RB1#0	4.35	13	Pass
				RB100#0	5.97	13	Pass
			HCH	RB1#0	4.72	13	Pass
				RB100#0	6.14	13	Pass
LTE Band 7	QPSK	20 MHz	LCH	RB1#0	3.48	13	Pass
				RB100#0	4.64	13	Pass
			MCH	RB1#0	3.30	13	Pass

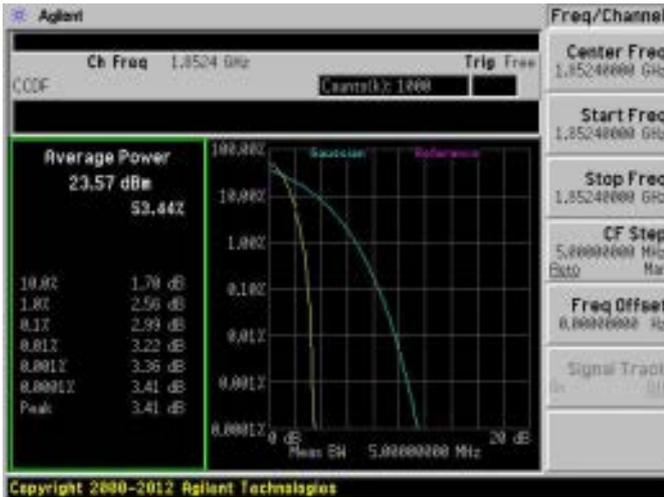
Test Band	Test Model	Test Bandwidth	Test Channel	Test RB(Size#Offset)	Peak to Average ratio (dBm)	Limit (dBm)	Verdict
			HCH	RB100#0	4.99	13	Pass
				RB1#0	3.57	13	Pass
			LCH	RB100#0	4.70	13	Pass
				RB1#0	4.20	13	Pass
	16-QAM	20 MHz	MCH	RB100#0	5.54	13	Pass
				RB1#0	4.17	13	Pass
	HCH			RB100#0	5.74	13	Pass
				RB1#0	4.49	13	Pass
				RB100#0	5.45	13	Pass
				RB1#0	4.49	13	Pass
LTE Band 12	QPSK	10 MHz	LCH	RB1#0	3.57	13	Pass
				RB50#0	5.25	13	Pass
			MCH	RB1#0	3.94	13	Pass
				RB50#0	5.28	13	Pass
			HCH	RB1#0	3.62	13	Pass
				RB50#0	5.28	13	Pass
	16-QAM	10 MHz	LCH	RB1#0	4.61	13	Pass
				RB50#0	6.17	13	Pass
			MCH	RB1#0	4.78	13	Pass
				RB50#0	6.20	13	Pass
			HCH	RB1#0	4.72	13	Pass
				RB50#0	6.17	13	Pass
LTE Band 17	QPSK	10 MHz	LCH	RB1#0	3.94	13	Pass
				RB50#0	5.30	13	Pass
			MCH	RB1#0	3.74	13	Pass
				RB50#0	5.33	13	Pass
			HCH	RB1#0	3.62	13	Pass
				RB50#0	5.28	13	Pass
	16-QAM	10 MHz	LCH	RB1#0	4.90	13	Pass
				RB50#0	6.17	13	Pass
			MCH	RB1#0	4.72	13	Pass
				RB50#0	6.20	13	Pass
			HCH	RB1#0	4.72	13	Pass
				RB50#0	6.17	13	Pass
LTE Band 28	QPSK	20 MHz	LCH	RB1#0	3.51	13	Pass
				RB100#0	3.97	13	Pass
			MCH	RB1#0	3.83	13	Pass
				RB100#0	4.14	13	Pass
	HCH			RB1#0	4.29	13	Pass
				RB100#0	4.32	13	Pass
	16-QAM	20 MHz	LCH	RB1#0	4.41	13	Pass
				RB100#0	5.68	13	Pass
			MCH	RB1#0	4.67	13	Pass

Test Band	Test Model	Test Bandwidth	Test Channel	Test RB(Size#Offset)	Peak to Average ratio (dBm)	Limit (dBm)	Verdict
			HCH	RB100#0	5.88	13	Pass
				RB1#0	5.25	13	Pass
				RB100#0	5.71	13	Pass

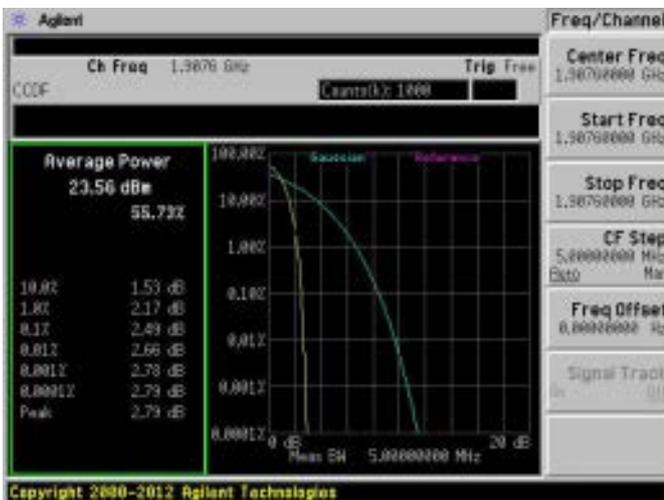
Test Plots

WCDMA Band 2 LCH

WCDMA Band 2 MCH

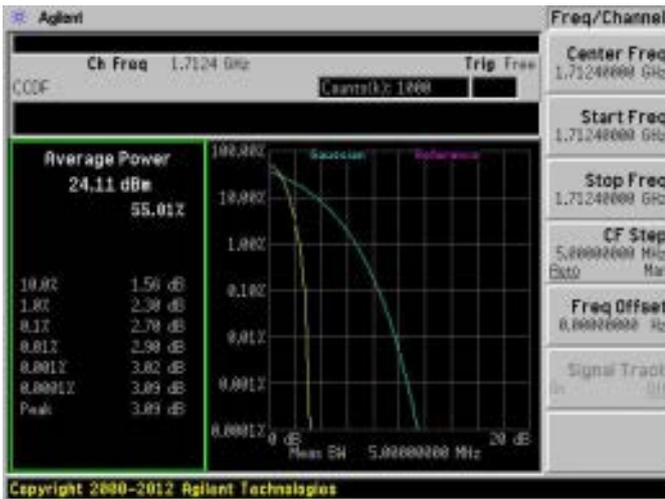


WCDMA Band 2 HCH



WCDMA Band 4 LCH

WCDMA Band 4 MCH



WCDMA Band 4 HCH



LTE test plots please refer to the document "Annex No.:BL-SZ1650193-Data Part 1.pdf".

A.3 Occupied Bandwidth

GSM Mode Test Data

Test Band	Test Channel	Measured 99% Occupied Bandwidth (kHz)	Measured -26 dB Occupied Bandwidth (kHz)
GSM 850	LCH	250.5201	320.341
	MCH	245.9866	312.500
	HCH	246.5992	308.708
GSM 1900	LCH	244.313	305.848
	MCH	245.4234	309.728
	HCH	251.7019	310.714
EGPRS 850	LCH	246.9384	314.636
	MCH	246.2914	307.69
	HCH	250.1981	313.154
EGPRS 1900	LCH	244.0785	310.364
	MCH	243.7632	309.536
	HCH	249.5779	319.713
WCDMA B2	LCH	4206.5000	4846.000
	MCH	4218.3000	4842.000
	HCH	4233.2000	4873.000
WCDMA B4	LCH	4212.6000	4853.000
	MCH	4216.8000	4892.000
	HCH	4218.7000	4857.000
WCDMA B5	LCH	4204.3000	4848.000
	MCH	4202.7000	4856.000
	HCH	4206.2000	4855.000

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)
Band 2	1.4 MHz	LCH	QPSK	RB6#0	1.17	1.38
			16-QAM	RB6#0	1.17	1.38
		MCH	QPSK	RB6#0	1.18	1.4
			16-QAM	RB6#0	1.17	1.37
		HCH	QPSK	RB6#0	1.18	1.39
			16-QAM	RB6#0	1.18	1.4
	3 MHz	LCH	QPSK	RB15#0	2.73	3.04
			16-QAM	RB15#0	2.73	3.05
		MCH	QPSK	RB15#0	2.73	3.04
			16-QAM	RB15#0	2.72	3.04
		HCH	QPSK	RB15#0	2.73	3.04
			16-QAM	RB15#0	2.72	3.04
	5 MHz	LCH	QPSK	RB25#0	4.52	5.07
			16-QAM	RB25#0	4.51	5.03
		MCH	QPSK	RB25#0	4.51	5.06
			16-QAM	RB25#0	4.53	5.05
		HCH	QPSK	RB25#0	4.51	5.08
			16-QAM	RB25#0	4.53	5.09
	10 MHz	LCH	QPSK	RB50#0	8.94	9.75
			16-QAM	RB50#0	8.93	9.62
		MCH	QPSK	RB50#0	8.93	9.71
			16-QAM	RB50#0	8.93	9.77
		HCH	QPSK	RB50#0	8.93	9.69
			16-QAM	RB50#0	8.94	9.73
15 MHz	LCH	QPSK	RB75#0	13.4	14.35	
		16-QAM	RB75#0	13.38	14.39	
	MCH	QPSK	RB75#0	13.39	14.3	
		16-QAM	RB75#0	13.39	14.38	
	HCH	QPSK	RB75#0	13.41	14.36	
		16-QAM	RB75#0	13.4	14.46	
20 MHz	LCH	QPSK	RB100#0	17.84	18.79	
		16-QAM	RB100#0	17.84	18.99	
	MCH	QPSK	RB100#0	17.85	18.90	
		16-QAM	RB100#0	17.85	18.99	
	HCH	QPSK	RB100#0	17.84	18.89	
		16-QAM	RB100#0	17.85	18.91	

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)
Band 4	1.4 MHz	LCH	QPSK	RB6#0	1.18	1.4
			16-QAM	RB6#0	1.17	1.35
		MCH	QPSK	RB6#0	1.18	1.39
			16-QAM	RB6#0	1.17	1.37
		HCH	QPSK	RB6#0	1.18	1.38
			16-QAM	RB6#0	1.17	1.38
	3 MHz	LCH	QPSK	RB15#0	2.73	3.04
			16-QAM	RB15#0	2.73	3.02
		MCH	QPSK	RB15#0	2.73	3.03
			16-QAM	RB15#0	2.74	3.05
		HCH	QPSK	RB15#0	2.73	3.02
			16-QAM	RB15#0	2.73	3.03
	5 MHz	LCH	QPSK	RB25#0	4.52	5.07
			16-QAM	RB25#0	4.51	5.02
		MCH	QPSK	RB25#0	4.51	5.05
			16-QAM	RB25#0	4.52	5.07
		HCH	QPSK	RB25#0	4.51	5.04
			16-QAM	RB25#0	4.52	5.08
	10 MHz	LCH	QPSK	RB50#0	8.93	9.76
			16-QAM	RB50#0	8.92	9.62
		MCH	QPSK	RB50#0	8.92	9.65
			16-QAM	RB50#0	8.93	9.69
		HCH	QPSK	RB50#0	8.92	9.74
			16-QAM	RB50#0	8.93	9.69
	15 MHz	LCH	QPSK	RB75#0	13.39	14.34
			16-QAM	RB75#0	13.37	14.38
		MCH	QPSK	RB75#0	13.37	14.29
			16-QAM	RB75#0	13.38	14.32
		HCH	QPSK	RB75#0	13.39	14.35
			16-QAM	RB75#0	13.4	14.28
	20 MHz	LCH	QPSK	RB100#0	17.84	18.76
			16-QAM	RB100#0	17.82	18.97
MCH		QPSK	RB100#0	17.84	18.81	
		16-QAM	RB100#0	17.85	18.93	
HCH		QPSK	RB100#0	17.85	18.92	
		16-QAM	RB100#0	17.86	18.96	

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)
Band 7	5 MHz	LCH	QPSK	RB25#0	4.52	5.08
			16-QAM	RB25#0	4.51	5.07
		MCH	QPSK	RB25#0	4.51	5.09
			16-QAM	RB25#0	4.54	5.07
		HCH	QPSK	RB25#0	4.51	5.14
			16-QAM	RB25#0	4.53	5.12
	10 MHz	LCH	QPSK	RB50#0	8.94	9.82
			16-QAM	RB50#0	8.93	9.61
		MCH	QPSK	RB50#0	8.93	9.76
			16-QAM	RB50#0	8.94	9.76
		HCH	QPSK	RB50#0	8.94	9.81
			16-QAM	RB50#0	8.95	9.76
	15 MHz	LCH	QPSK	RB75#0	13.39	14.44
			16-QAM	RB75#0	13.39	14.43
		MCH	QPSK	RB75#0	13.39	14.48
			16-QAM	RB75#0	13.41	14.4
		HCH	QPSK	RB75#0	13.41	14.4
			16-QAM	RB75#0	13.41	14.46
	20 MHz	LCH	QPSK	RB100#0	17.84	18.83
			16-QAM	RB100#0	17.82	18.84
		MCH	QPSK	RB100#0	17.87	18.95
			16-QAM	RB100#0	17.88	19.00
		HCH	QPSK	RB100#0	17.82	18.89
			16-QAM	RB100#0	17.84	18.85

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)
Band12	1.4 MHz	LCH	QPSK	RB6#0	1.17	1.38
			16-QAM	RB6#0	1.17	1.38
		MCH	QPSK	RB6#0	1.18	1.39
			16-QAM	RB6#0	1.16	1.37
		HCH	QPSK	RB6#0	1.17	1.39
			16-QAM	RB6#0	1.17	1.39
	3 MHz	LCH	QPSK	RB15#0	2.73	3.03
			16-QAM	RB15#0	2.74	3.05
		MCH	QPSK	RB15#0	2.72	3.03
			16-QAM	RB15#0	2.73	3.03
		HCH	QPSK	RB15#0	2.73	3.04
			16-QAM	RB15#0	2.72	3.04
	5 MHz	LCH	QPSK	RB25#0	4.53	5.07
			16-QAM	RB25#0	4.51	5.03
		MCH	QPSK	RB25#0	4.5	5.04
			16-QAM	RB25#0	4.52	5.04
		HCH	QPSK	RB25#0	4.51	5.02
			16-QAM	RB25#0	4.52	5.09
	10 MHz	LCH	QPSK	RB50#0	8.93	9.74
			16-QAM	RB50#0	8.92	9.64
		MCH	QPSK	RB50#0	8.93	9.68
			16-QAM	RB50#0	8.92	9.68
		HCH	QPSK	RB50#0	8.94	9.71
			16-QAM	RB50#0	8.95	9.75

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)
Band17	5 MHz	LCH	QPSK	RB25#0	4.52	5.08
			16-QAM	RB25#0	4.5	5.03
		MCH	QPSK	RB25#0	4.51	5.04
			16-QAM	RB25#0	4.53	5.06
		HCH	QPSK	RB25#0	4.51	5.03
			16-QAM	RB25#0	4.52	5.09
	10 MHz	LCH	QPSK	RB50#0	8.95	9.72
			16-QAM	RB50#0	8.93	9.64
		MCH	QPSK	RB50#0	8.94	9.78
			16-QAM	RB50#0	8.94	9.73
		HCH	QPSK	RB50#0	8.94	9.7
			16-QAM	RB50#0	8.94	9.75

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB(Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)
Band28	3 MHz	LCH	QPSK	RB15#0	2.73	3.03
			16-QAM	RB15#0	2.74	3.05
		MCH	QPSK	RB15#0	2.73	3.03
			16-QAM	RB15#0	2.72	3.03
		HCH	QPSK	RB15#0	2.73	3.03
			16-QAM	RB15#0	2.72	3.04
	5 MHz	LCH	QPSK	RB25#0	4.52	5.07
			16-QAM	RB25#0	4.5	5.03
		MCH	QPSK	RB25#0	4.51	5.07
			16-QAM	RB25#0	4.52	5.06
		HCH	QPSK	RB25#0	4.51	5.04
			16-QAM	RB25#0	4.52	5.07
	10 MHz	LCH	QPSK	RB50#0	8.93	9.79
			16-QAM	RB50#0	8.93	9.65
		MCH	QPSK	RB50#0	8.93	9.65
			16-QAM	RB50#0	8.92	9.7
		HCH	QPSK	RB50#0	8.92	9.65
			16-QAM	RB50#0	8.92	9.65
	15 MHz	LCH	QPSK	RB75#0	8.92	9.61
			16-QAM	RB75#0	13.39	14.43
		MCH	QPSK	RB75#0	13.38	14.38
			16-QAM	RB75#0	13.37	14.32
		HCH	QPSK	RB75#0	13.38	14.36
			16-QAM	RB75#0	13.37	14.37
20 MHz	LCH	QPSK	RB100#0	13.38	14.4	
		16-QAM	RB100#0	17.8	18.76	
	MCH	QPSK	RB100#0	17.81	18.86	
		16-QAM	RB100#0	17.80	18.74	
	HCH	QPSK	RB100#0	17.8	18.82	
		16-QAM	RB100#0	17.82	18.88	

GSM Mode Test Plots

GSM 850 MHz LCH



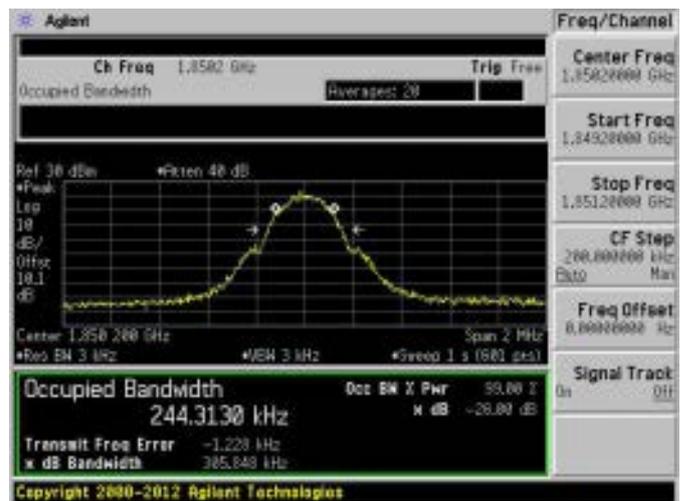
GSM 850 MHz MCH



GSM 850 MHz HCH



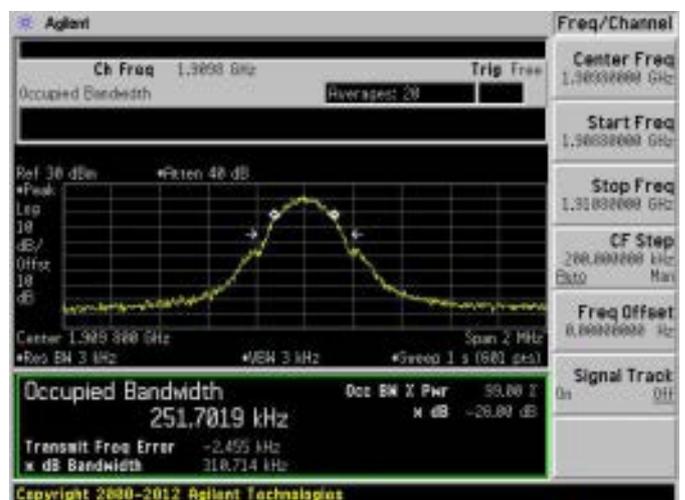
GSM 1900 MHz LCH



GSM 1900 MHz MCH



GSM 1900 MHz HCH



EGPRS 850 MHz LCH

EGPRS 850 MHz MCH



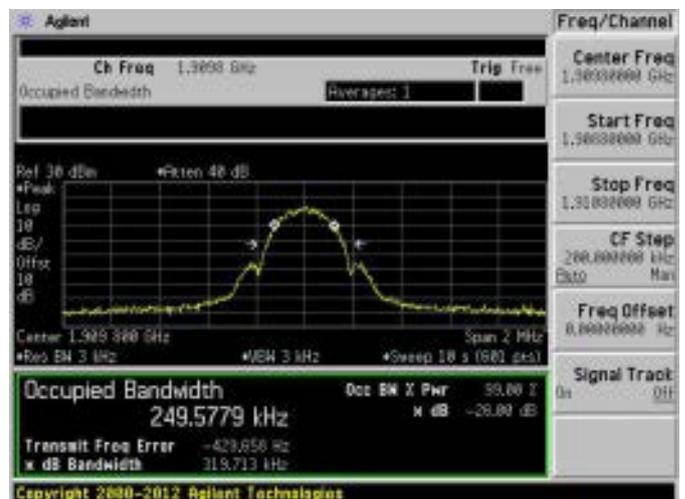
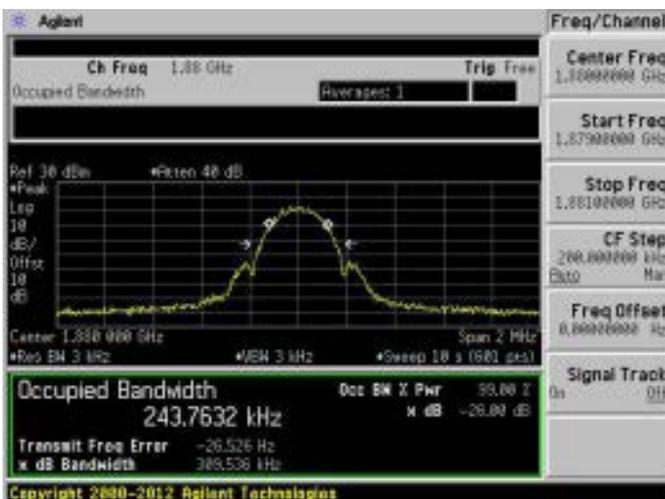
EGPRS 850 MHz HCH

EGPRS 1900 MHz LCH



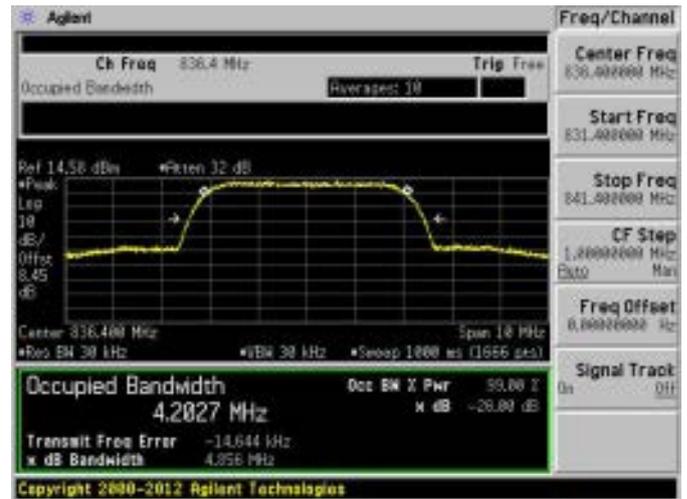
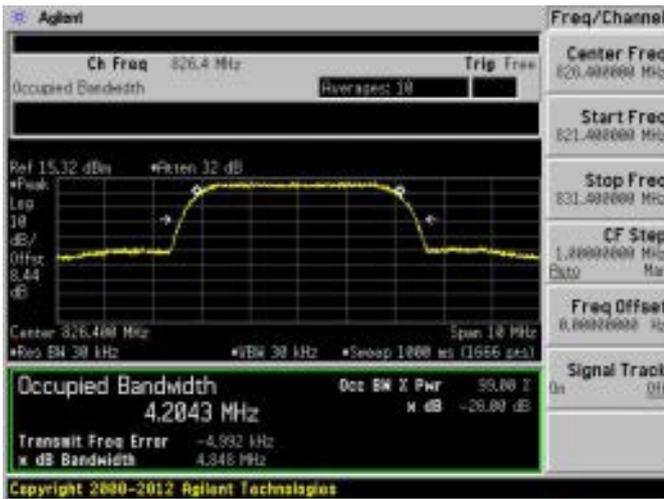
EGPRS 1900 MHz MCH

EGPRS 1900 MHz HCH



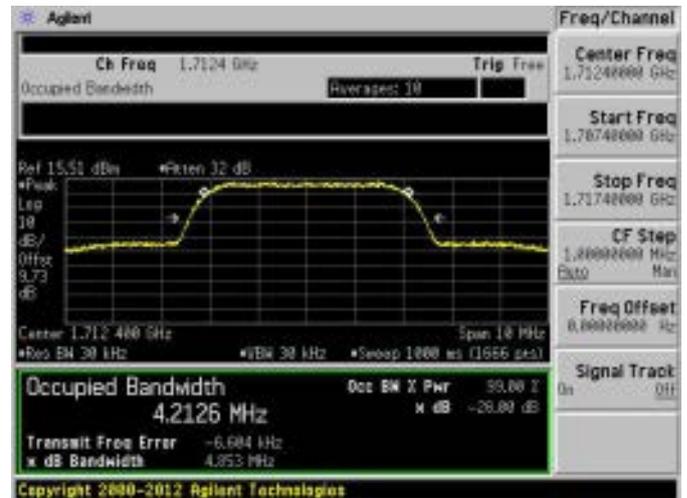
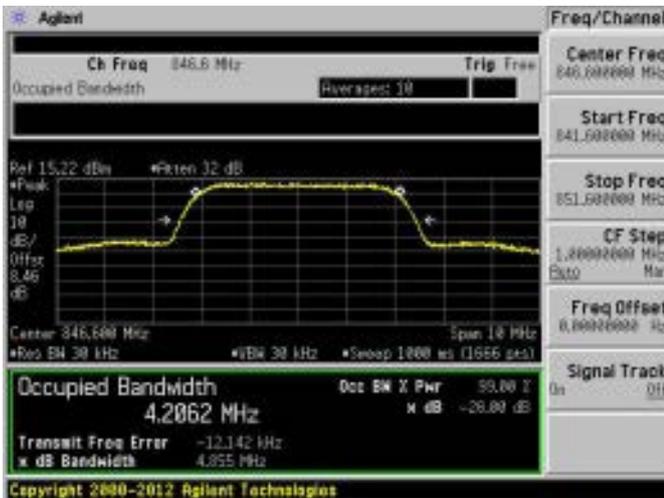
WCDMA 850 MHz LCH

WCDMA 850 MHz MCH



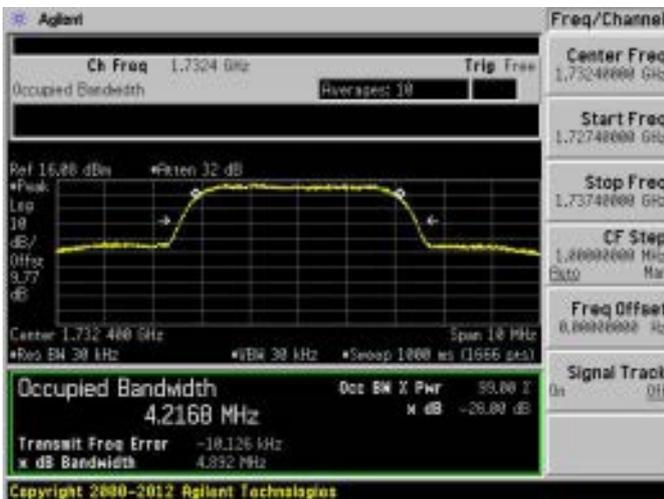
WCDMA 850 MHz HCH

WCDMA 1700 MHz LCH



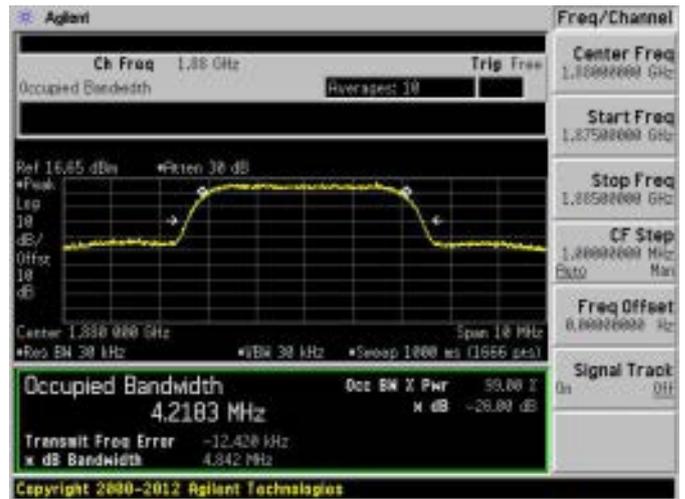
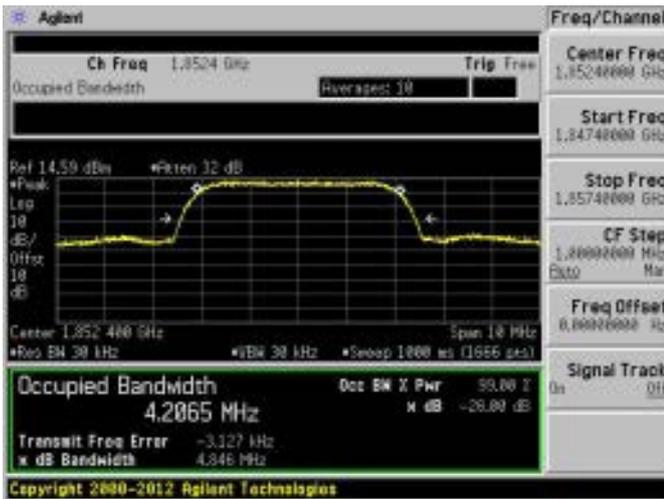
WCDMA 1700 MHz MCH

WCDMA 1700 MHz HCH



WCDMA 1900 MHz LCH

WCDMA 1900 MHz MCH



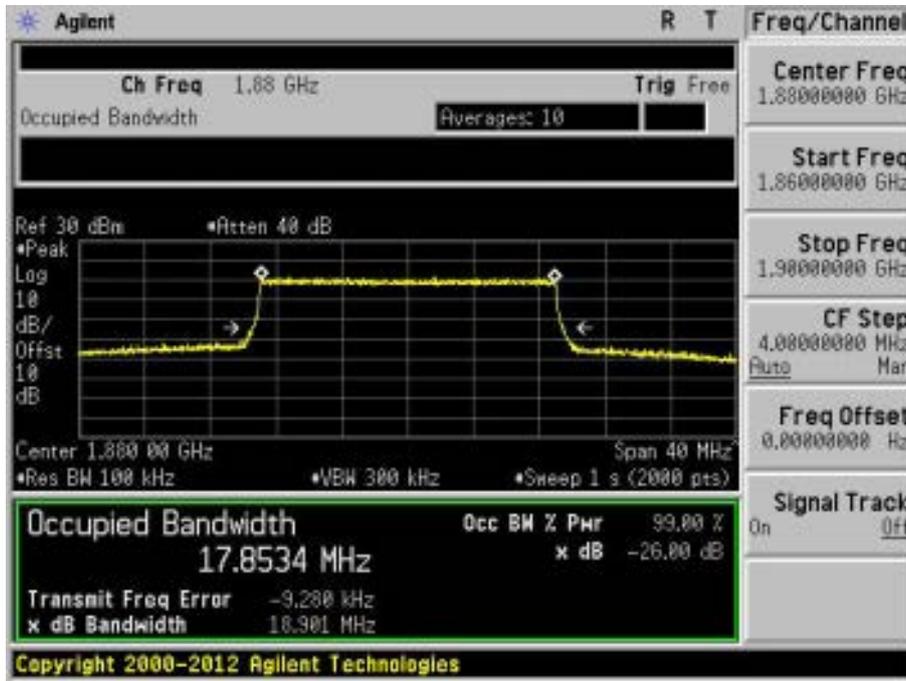
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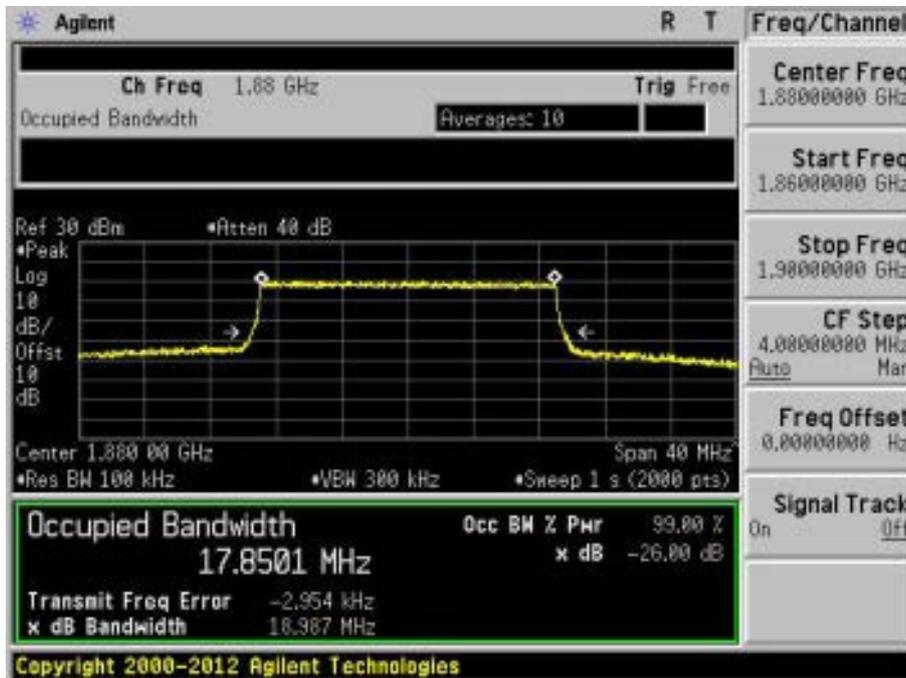
LTE Mode Test Plots

There are only data for maximum bandwidth on MCH. The others please refer to document “BL-SZ1650193-501 OBW”.

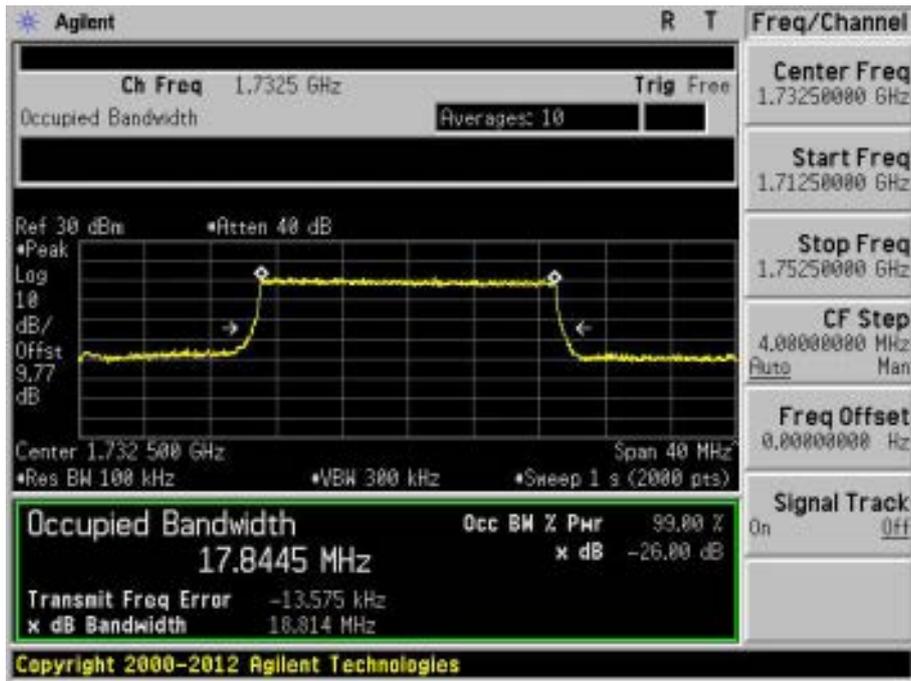
Band 2 QPSK 20 MHz Bandwidth RB100#0 MCH



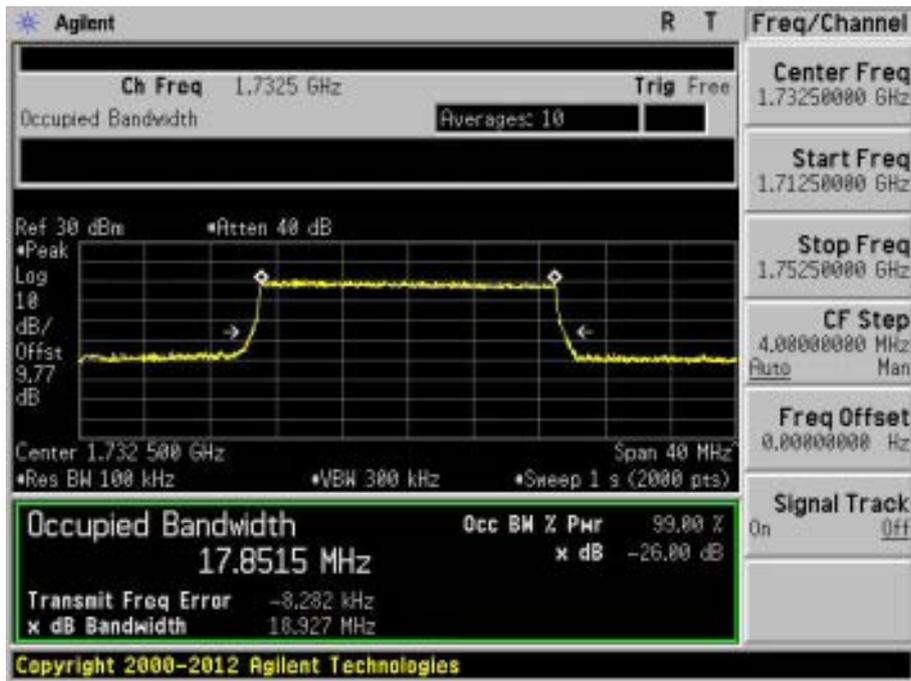
Band 2 16-QAM 20 MHz Bandwidth RB100#0 MCH



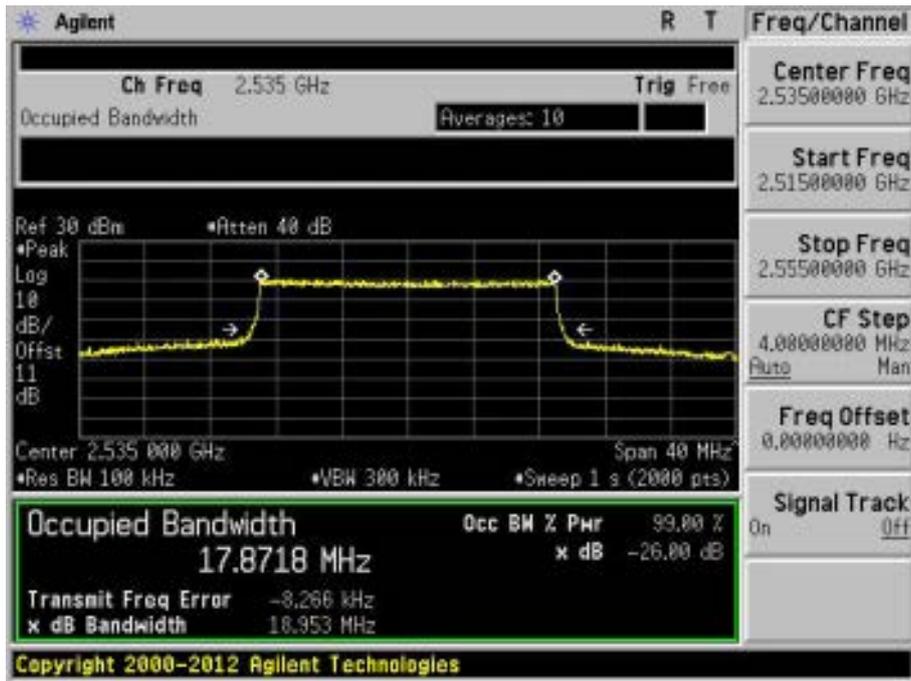
Band 4 QPSK 20 MHz Bandwidth RB100#0 MCH



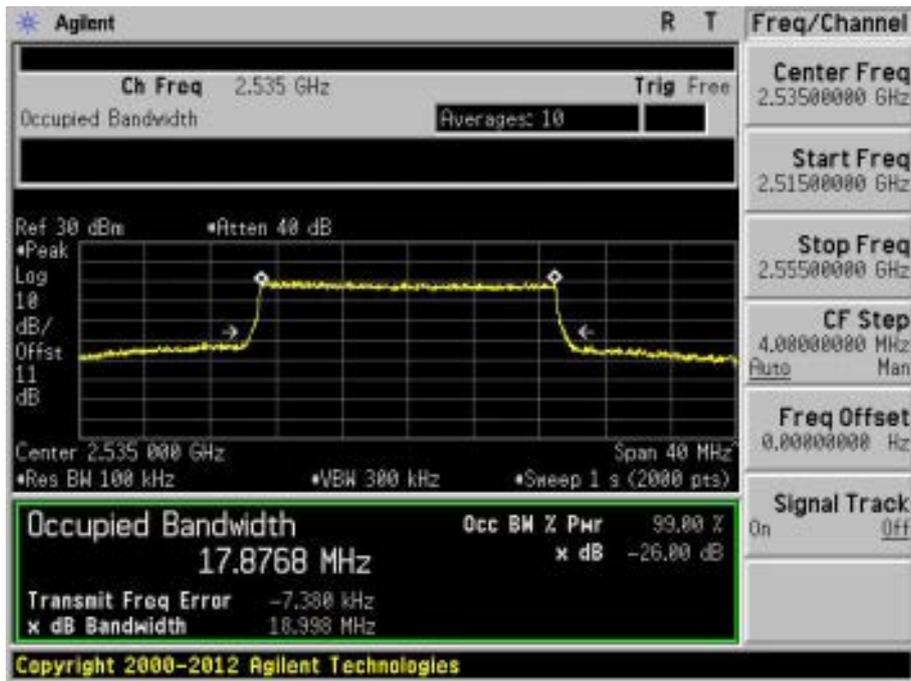
Band 4 16-QAM 20 MHz Bandwidth RB100#0 MCH



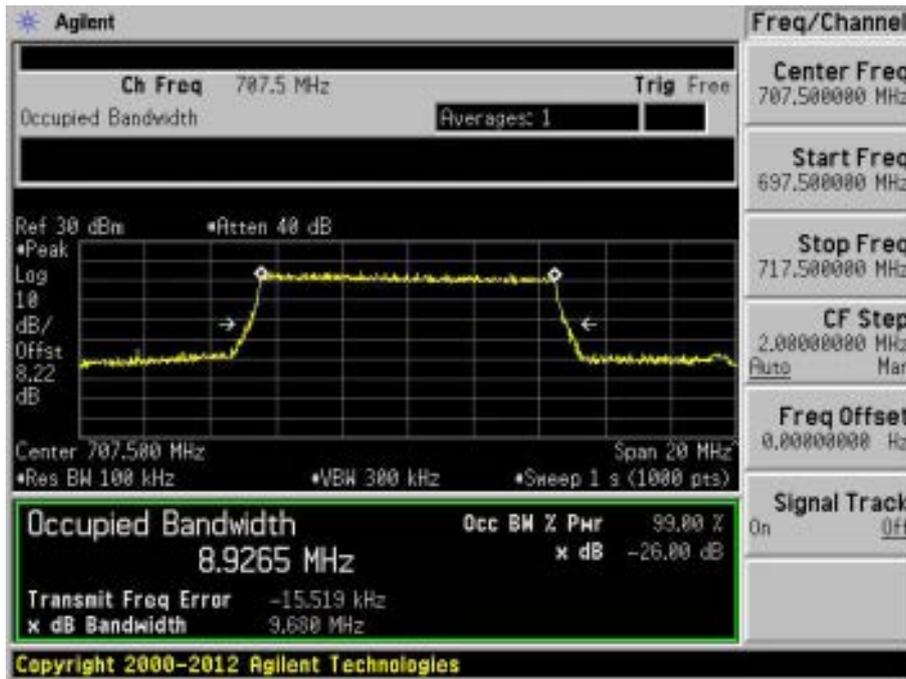
Band 7 QPSK 20 MHz Bandwidth RB100#0 MCH



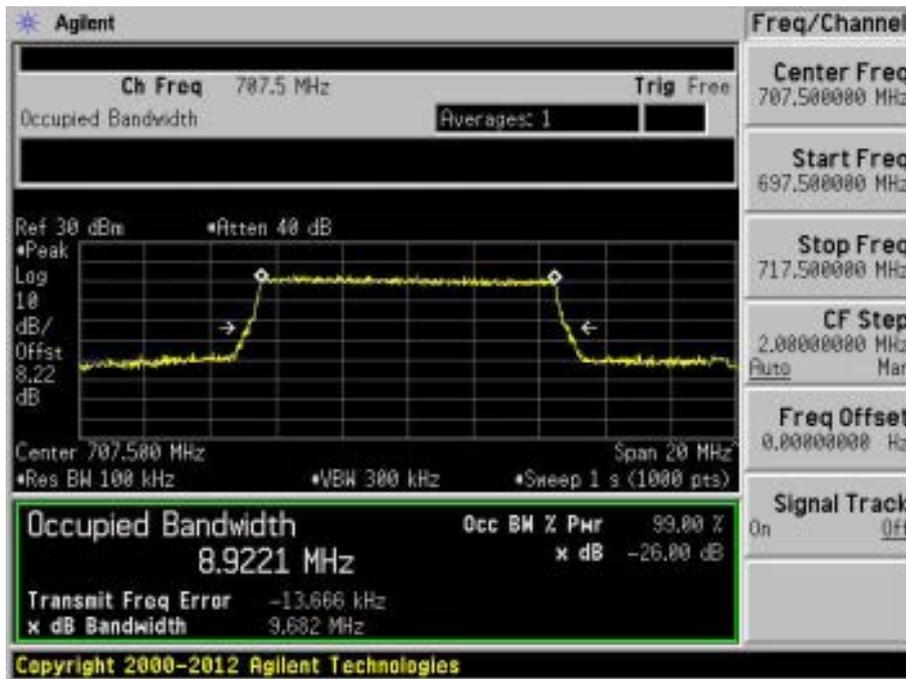
Band 7 16-QAM 20 MHz Bandwidth RB100#0 MCH



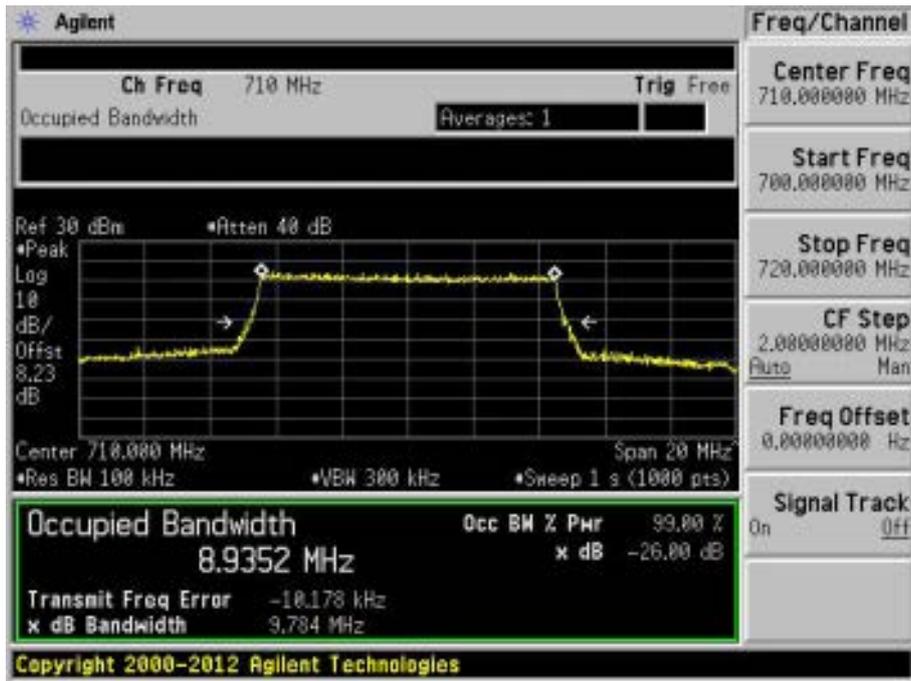
Band 12 QPSK 10 MHz Bandwidth RB50#0 MCH



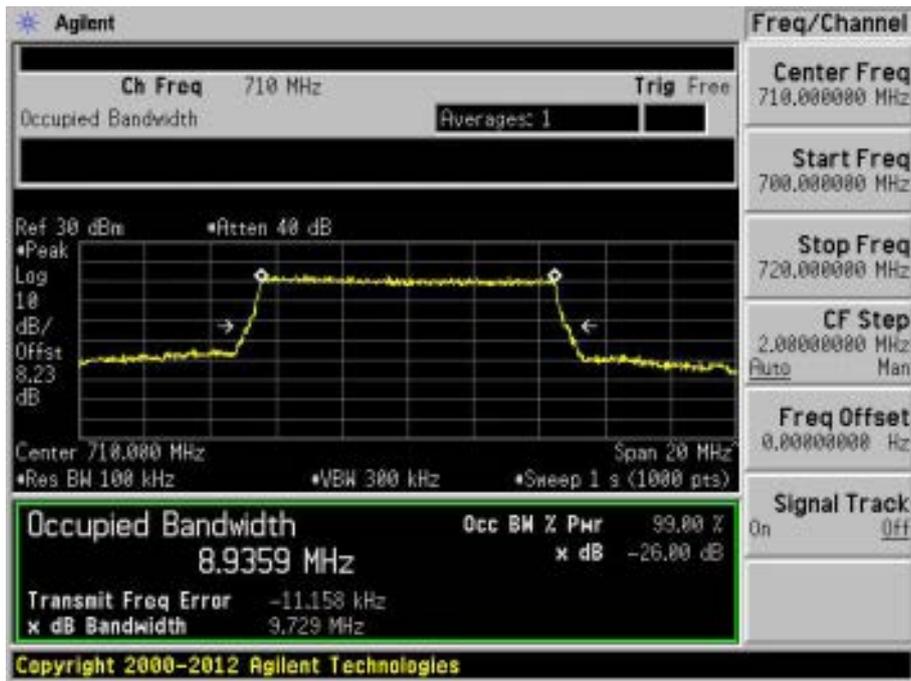
Band 12 16-QAM 10 MHz Bandwidth RB50#0 MCH



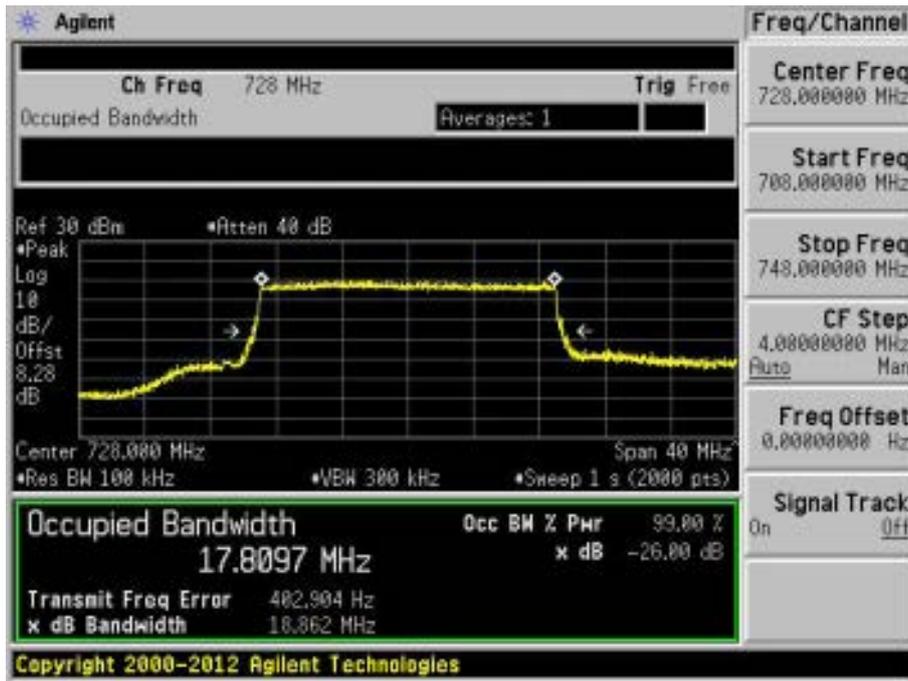
Band 17 QPSK 10 MHz Bandwidth RB50#0 MCH



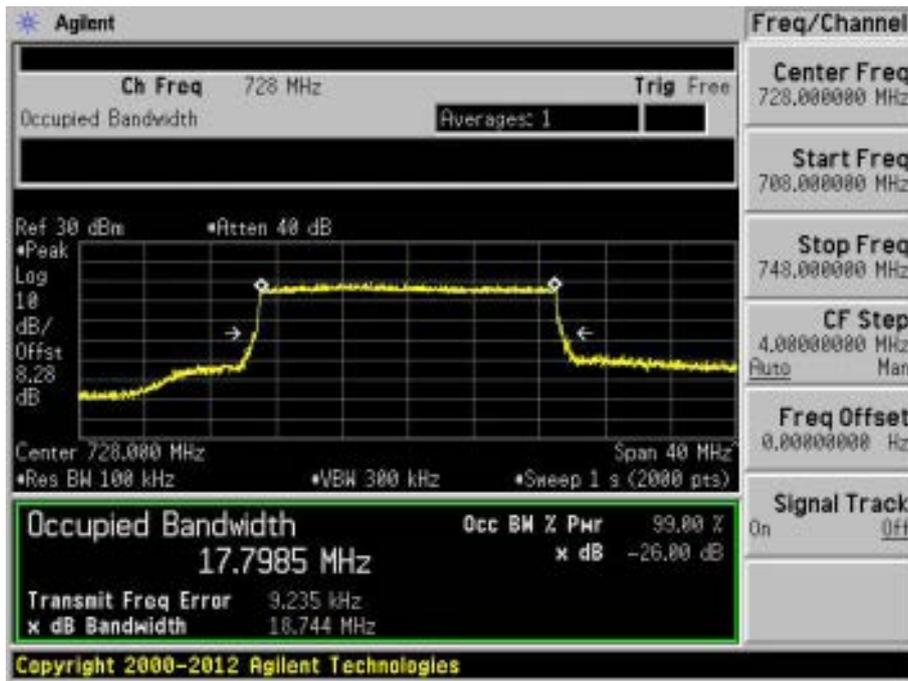
Band 17 16-QAM 10 MHz Bandwidth RB50#0 MCH



Band 28 QPSK 20 MHz Bandwidth RB100#0 MCH



Band 28 16-QAM 20 MHz Bandwidth RB100#0 MCH



A.4 Frequency Stability

GSM 850 MHz

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	-10	-7.84	±2060.5	-3.49	±2091.5	1.20	±2122	Pass
	-5	-10.56		-12.11		-12.33		
	0	-15.58		-6.93		-13.91		
	+5	-5.69		-10.72		0.95		
	+10	-8.11		-14.66		-3.42		
	+20	-1.98		-5.02		-1.18		
	+30	-15.32		-0.60		-14.38		
	+40	2.79		-17.50		-17.60		
+45	-0.93	-10.35	-8.44					
4.35	+25	-16.28	-16.37	-15.04				
3.6	+25	-17.90	-2.72	-6.86				

GSM 1900 MHz

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	-10	21.88	±4625.5	Hz	±4700.0	39.43	±4774.5	Pass
	-5	17.62		39.06		39.04		
	0	-1.53		48.73		37.00		
	+5	-6.03		32.16		17.81		
	+10	9.99		19.61		42.53		
	+20	35.96		53.81		38.33		
	+30	10.10		18.77		19.75		
	+40	51.32		15.01		32.86		
+45	14.47	0.50	4.44					
4.35	+25	-2.21	-0.56	52.20				
3.6	+25	26.45	19.71	53.04				

GPRS 850 MHz

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	-10	1.63	±2060.5	-15.89	±2091.5	31.97	±2122	Pass
	-5	3.34		14.78		-25.32		
	0	12.71		3.33		14.71		
	+5	12.68		17.88		13.82		
	+10	-4.31		25.90		10.23		
	+20	-36.77		-10.42		-13.60		
	+30	20.72		36.32		-17.78		
	+40	14.28		-7.84		12.21		
+45	-32.65	6.96	-12.57					
4.35	+25	-17.06		23.99		6.97		
3.6	+25	19.09		20.49		34.40		

GPRS 1900 MHz

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	-10	-4.14	±4625.5	-12.43	±4700.0	-3.50	±4774.5	Pass
	-5	1.06		-14.67		0.30		
	0	-5.58		-6.69		-0.39		
	+5	-7.78		2.20		-11.05		
	+10	-6.45		4.03		5.76		
	+20	-3.66		-1.01		-1.34		
	+30	-2.42		-8.41		2.57		
	+40	-1.74		6.95		-5.77		
+45	1.26	17.09	4.59					
4.35	+25	2.50		13.52		11.73		
3.6	+25	-8.74		0.19		12.23		

EGPRS 850 MHz

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	-10	-3.46	±2060.5	-20.52	±2091.5	-3.24	±2122	Pass
	-5	-9.41		-3.54		-5.46		
	0	-14.83		-11.23		-2.99		
	+5	-17.65		-5.66		-15.63		
	+10	-13.11		-21.44		-7.76		
	+20	5.74		-1.49		-3.58		
	+30	-6.65		-2.14		-24.38		
	+40	-11.60		-12.23		-7.33		
+45	-13.30	-4.96	-9.73					
4.35	+25	-18.14	-21.98	4.08				
3.6	+25	-17.27	-8.35	-6.56				

EGPRS 1900 MHz

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	-10	1201	±4625.5	-11.03	±4700.0	21.02	±4774.5	Pass
	-5	-4.74		-2.06		43.08		
	0	5.59		13.88		20.65		
	+5	-25.09		-21.75		-3.32		
	+10	50.44		-18.76		42.75		
	+20	-16.77		32.54		-2.32		
	+30	47.36		-14.89		23.12		
	+40	15.51		14.49		4.33		
+45	41.05	46.72	-17.55					
4.35	+25	21.79	16.15	38.10				
3.6	+25	10.20	52.34	-12.06				

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	-10	-10.74	±4631	0.31	±4700	-8.73	±4769	Pass
	-5	11.47		3.12		1.96		
	0	19.21		4.58		19.55		
	+5	-5.33		4.51		-27.12		
	+10	0.62		21.15		9.54		
	+20	7.72		4.76		-12.62		
	+30	1.91		-26.64		23.63		
	+40	-1.31		-32.78		-22.53		
+45	-9.39	20	-26.92					
4.35	+25	9.74	-35.79	0.22				
3.6	+25	-5.85	43.81	-4.31				

WCDMA Band 4

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1712.4 MHz		MCH 1732.4 MHz		HCH 1752.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-10	-1.56	±4281	-13.15	±4331	-35.55	±4381.5	Pass
	-5	3.25		11.08		11.73		
	0	9.74		8.55		35.32		
	+5	0.93		10.72		-20.37		
	+10	-4.19		1.02		-28.86		
	+20	-29.61		10.45		30.16		
	+30	-16.78		11.57		-0.61		
	+40	0.07		-6.71		-4.55		
+45	11.74	22.83	5.25					
4.35	+25	-4.82	16.98	-22.89				
3.6	+25	21.98	4.06	-8.53				

WCDMA Band 5

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	-10	-0.1	±2066	37.31	±2091	-19.95	±2116.5	Pass
	-5	3.93		24.05		-6.1		
	0	-3.16		35.96		-1.87		
	+5	7.19		-0.52		9.62		
	+10	-11.13		-31.02		-13.52		
	+20	-6.44		-36.43		4.91		
	+30	17.28		-4.13		0.87		
	+40	-12.86		1.44		-1.83		
	+45	-2.58		6.86		31.94		
4.35	+25	-3.45	10.11	0.59				
3.6	+25	6.5	-28.5	1.58				

LTE Band 2 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	-19.41	±4700	Pass
	-5	5.24		
	0	-18.32		
	+5	17.35		
	+10	1.27		
	+20	0.81		
	+30	19.26		
	+40	-5.15		
	+45	3.76		
4.35	+25	24.56		
3.6	+25	-7.47		

LTE Band 2 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	-3.74	±4700	Pass
	-5	-6.27		
	0	-43.69		
	+5	5.31		
	+10	-6.97		
	+20	30.51		
	+30	-3.11		
	+40	2.25		
+45	-16.27			
4.35	+25	5.29		
3.6	+25	0.12		

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	-10	-3.8	±4331.25	Pass
	-5	-2.15		
	0	15.14		
	+5	4.71		
	+10	-10.9		
	+20	2.02		
	+30	-16.05		
	+40	14.32		
+45	-7.5			
4.35	+25	-20.69		
3.6	+25	-3.26		

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	-10	39.11	±4331.25	Pass
	-5	-23.78		
	0	-5.37		
	+5	5.87		
	+10	-15.76		
	+20	-1.54		
	+30	0.51		
	+40	-3.86		
+45	20.64			
4.35	+25	-17.22		
3.6	+25	-0.49		

LTE Band 7 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	13.88	±6337.5	Pass
	-5	-45.75		
	0	24.2		
	+5	0.8		
	+10	-7.44		
	+20	-18.88		
	+30	0.8		
	+40	-19.79		
+45	-29.64			
4.35	+25	-0.67		
3.6	+25	-17.57		

LTE Band 7 16QAM10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	-4.43	±6337.5	Pass
	-5	7.32		
	0	9.15		
	+5	12.59		
	+10	28.23		
	+20	0.43		
	+30	-32.02		
	+40	-4.36		
+45	-10.84			
4.35	+25	31.1		
3.6	+25	4.14		

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	-10	0.92	±1768.75	Pass
	-5	-12.04		
	0	-0.65		
	+5	1.21		
	+10	12.93		
	+20	-21.47		
	+30	20.5		
	+40	5.26		
+45	21.1			
4.35	+25	-9.15		
3.6	+25	-9.78		

LTE Band 12 16QAM10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 707.5 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	0.49	±1768.75	Pass
	-5	-10.87		
	0	9.95		
	+5	4.37		
	+10	-26.56		
	+20	1.25		
	+30	-8.19		
	+40	16.94		
4.35	+25	2.73		
3.6	+25	43.47		

LTE Band 17 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 710 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	-0.05	±1775	Pass
	-5	-0.07		
	0	-0.44		
	+5	38.11		
	+10	-27.63		
	+20	39.36		
	+30	11.75		
	+40	5.65		
4.35	+25	0.58		
3.6	+25	-31.52		

LTE Band 17 16QAM10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 710 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	20.41	±1775	Pass
	-5	-17.73		
	0	-3.78		
	+5	-14.32		
	+10	-2.34		
	+20	-1.06		
	+30	9.59		
	+40	11.44		
	+45	30.88		
4.35	+25	5.26		
3.6	+25	4.00		

LTE Band 28 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 723 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	-7.83	±1807.5	Pass
	-5	-25.79		
	0	-25.61		
	+5	13.69		
	+10	-0.12		
	+20	12.66		
	+30	11.75		
	+40	-39.34		
	+45	-38.55		
4.35	+25	8.98		
3.6	+25	-13.53		

LTE Band 28 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 723 MHz		
		Value (Hz)	Limits (Hz)	
3.8	-10	0.49	±1807.5	Pass
	-5	-7.04		
	0	-10.25		
	+5	-3.1		
	+10	0.92		
	+20	-10.2		
	+30	17.15		
	+40	-25.29		
	+45	12.08		
4.35	+25	20.27		
3.6	+25	-9.93		

A.5 Spurious Emission at Antenna Terminals

Note 1: GSM and GPRS, EGPRS modes have been verified, only the worst data with different data bandwidth show here.

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

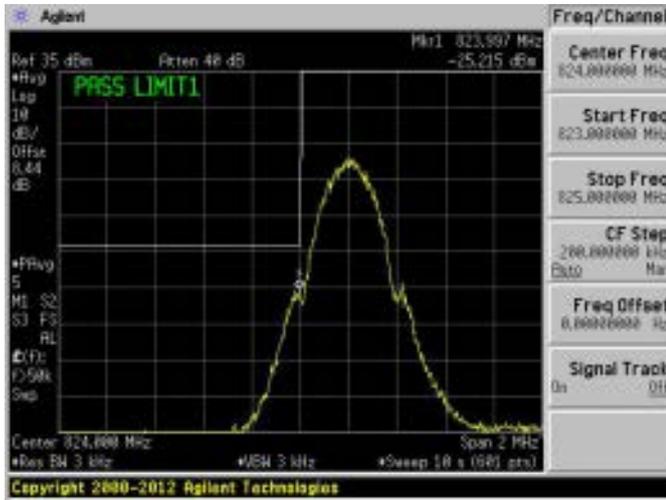
Test Data

The test datas please refer the document "Annex No.:BL-SZ1650193-Data Part 2.pdf".

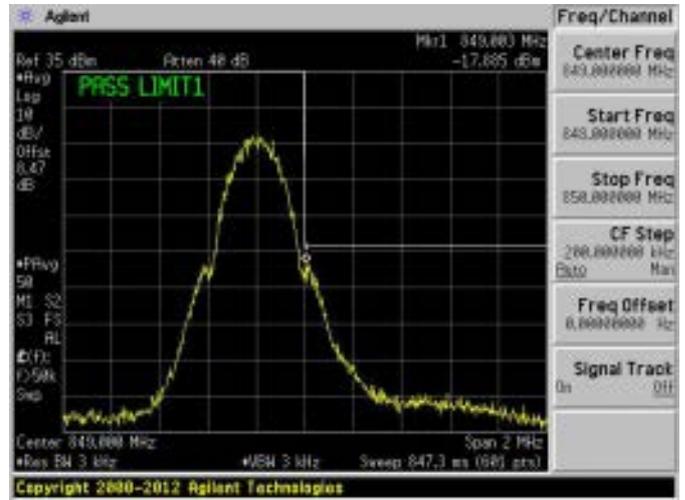
A.6 Band Edge

Test Result of Plots

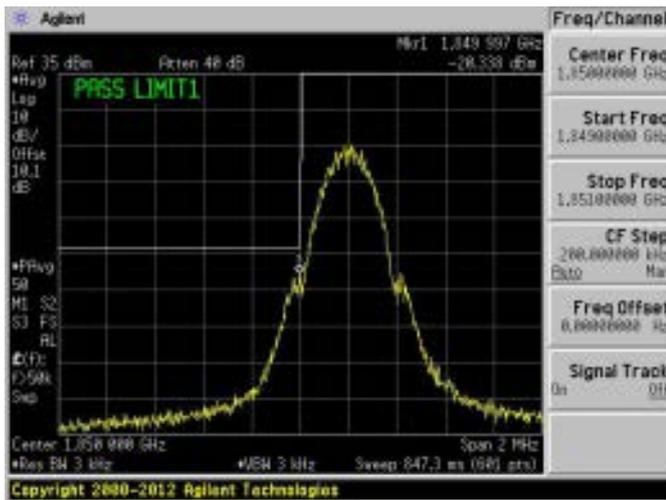
GSM 850 MHz LCH



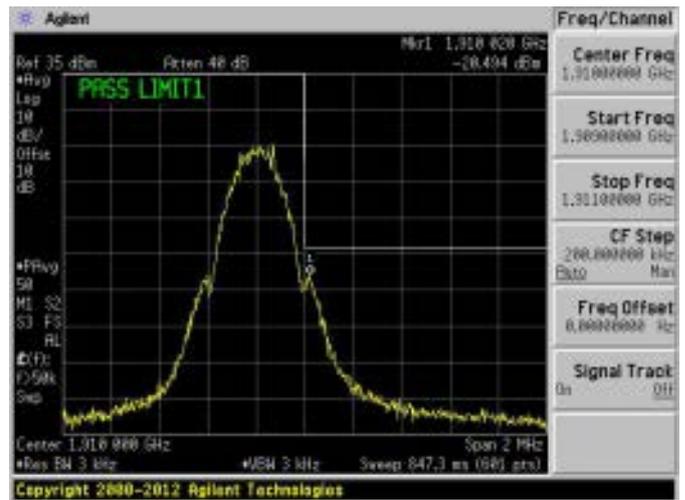
GSM 850 MHz HCH



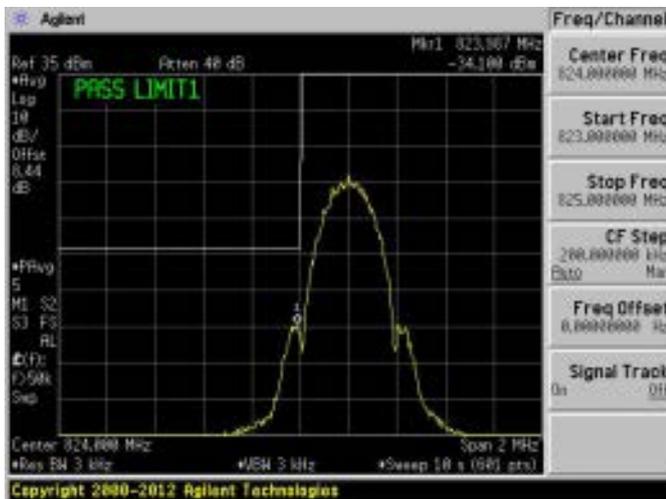
GSM 1900 MHz LCH



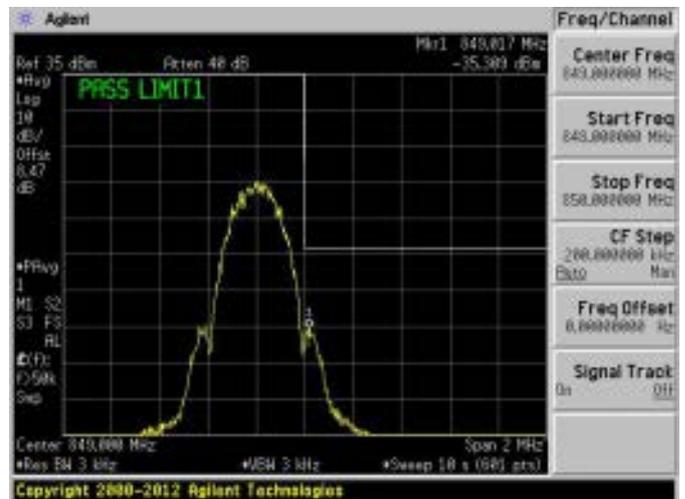
GSM 1900 MHz HCH



EGPRS 850 MHz LCH

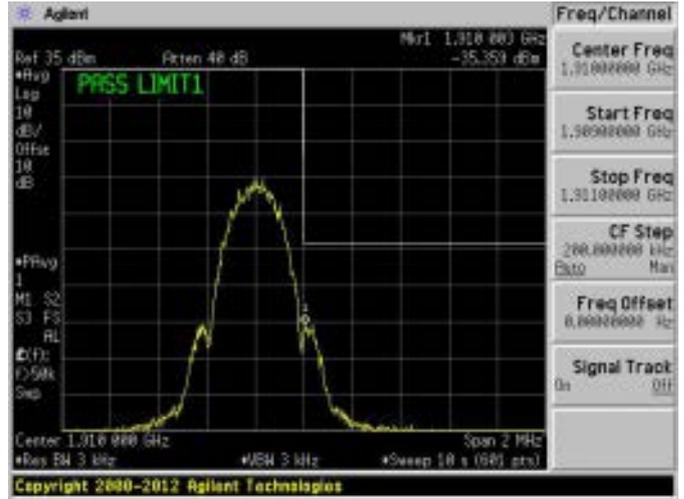
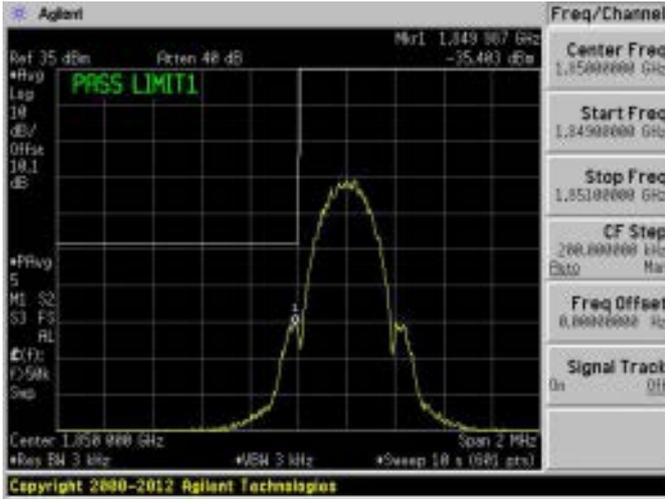


EGPRS 850 MHz HCH



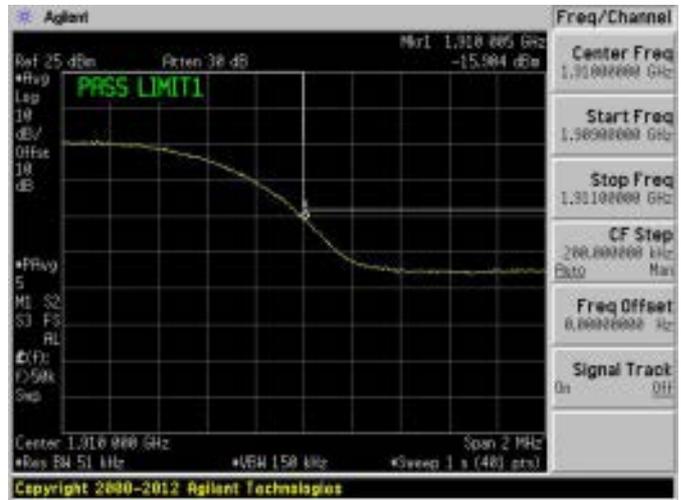
EGPRS 1900 MHz LCH

EGPRS 1900 MHz HCH



WCDMA Band 2 LCH

WCDMA Band 2 HCH



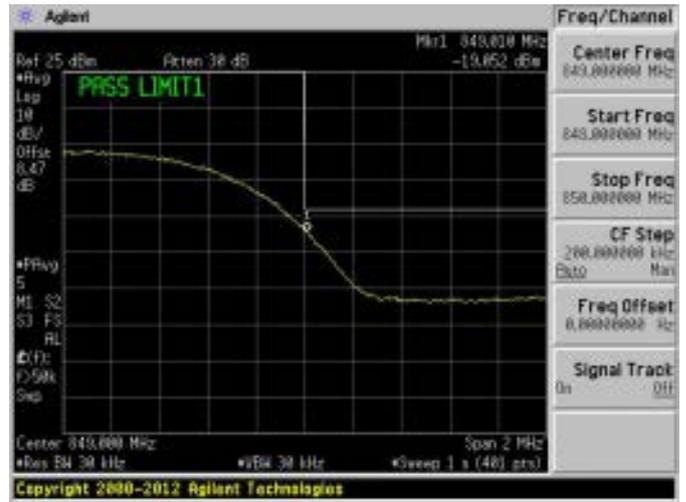
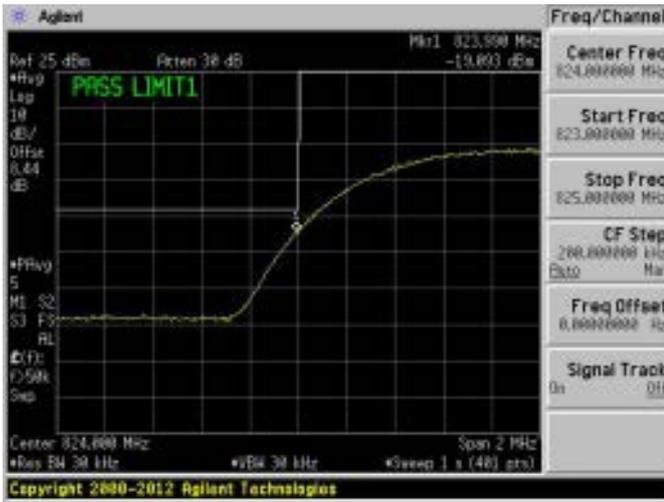
WCDMA Band 4 LCH

WCDMA Band 4 HCH



WCDMA Band 5 LCH

WCDMA Band 5 HCH



LTE Test Plots

LTE test plots please refer the document "Annex No.:BL-SZ1650193-Data Part 3.pdf".

A.7 Field Strength of Spurious Radiation

Note 1: GSM and GPRS, EGPRS modes have been verified, only the worst data with different data bandwidth show here.

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

Test Data

The test plots please refer the document "Annex No.:BL-SZ1650193-Data Part 4.pdf".

ANNEX B TEST SETUP PHOTO

Please refer the document "Annex No.:BL- SZ1650193-AR.pdf".

ANNEX C EUT EXTERNAL PHOTO

Please refer the document "Annex No.:BL- SZ1650193-AW.pdf".

ANNEX D EUT INTERNAL PHOTO

Please refer the document "Annex No.:BL-SZ1650193-AI.pdf".

--END OF REPORT--