FCC TESTREPORT

ISSUED BY

Shenzhen BALUN Technology Co., Ltd.



FOR

Mobile Phone

ISSUED TO

Realme Chongqing Mobile Telecommunications Corp., Ltd.

No.2 Building, No.24 Nichang Boulevard, Huixing Block, Yubei District, Chongqing, China



(Engineer)

Wer Yanguan (Chief Engineer)

Date Dec 06 3

BL-SZ19A0595-501 Mobile Phone

EUT Name: RMX1971

Model Name: Brand Name: realme

Test Standard: 47 CFR Part 2 (10-1-18 Edition)

> 47 CFR Part 22 (10-1-18 Edition) 47 CFR Part 24 (10-1-18 Edition)

> 47 CFR Part 27 (10-1-18 Edition)

FCC ID: 2AUYFRMX1971

Report No.:

Test Conclusion:

Pass

Test Date:

Nov. 01, 2019 ~ Nov. 15, 2019

Date of Issue: Dec. 06, 2019

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Revision History

Version Issue Date Revisions Content

Rev. 01 Dec. 06, 2019 Initial Issue

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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	

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

1.3 Laboratory Condition

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



1.4 Announce

- (1) The test report reference to the report template version v5.8.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant Realme Chongqing Mobile Telecommunications Corp., Ltd.	
Address	No.2 Building, No.24 Nichang Boulevard, Huixing Block, Yubei
	District, Chongqing, China

2.2 Manufacturer Information

Manufacturer	Realme Chongqing Mobile Telecommunications Corp., Ltd.	
Address	No.2 Building, No.24 Nichang Boulevard, Huixing Block, Yubei	
	District, Chongqing, China	

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone	
Model Name Under Test	RMX1921	
Series Model Name	N/A	
Description of Model	N/A	
name differentiation	IV/A	
Hardware Version	11	
Software Version	ColorOS V6.0	
Dimensions (Approx.)	157.0 mm × 74.2 mm × 8.9 mm	
Weight (Approx.)	184 g(with battery)	



2.5 Technical Information

	2G Network GSM/GPRS/EDGE 850/900/1800/1900 MHz	
	3G Network WCDMA/HSDPA/HSUPA/HSPA+ Band 1/5/8	
	4G Network FDD LTE Band 1/3/5/7/8/20/28	
All Network and	TDD LTE Band 38/40/41	
Wireless connectivity	LTE CA Downlink (DL): 1C/ 3C/ 38C/ 40C/ 41C	
for EUT	Bluetooth 5.0 (BR+EDR+BLE)	
	2.4G WIFI 802.11b, 802.11g, 802.11n(HT20)	
	5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/ 40/ 80)	
	GPS, GLONASS, BDS, FM	
About the Product	The equipment is Mobile Phone, intended for used with information	
About the Product	technology equipment.	
Nata 4.		

Note 1:

The EUT is a mobile phone, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA and LTE. And both SIM card slots share the same transceiver, so only SIM1 is tested in this report.

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

	GSM/GPRS/ED	OGE 850/1900 MHz
Operating Bands	WCDMA/HSDPA/HSUPA Band 5	
	FDD LTE Band 5/7	
	TDD LTE Band 38/41	
	GSM/GPRS	GMSK
	EGPRS	8PSK
	WCDMA	QPSK
Modulation Type	HSDPA	QPSK
	/HSUPA	16QAM
	LTE	QPSK
	LTE	16QAM
	GSM/GPRS/E0	GPRS 850: 824 MHz ~ 849 MHz
	GSM/GPRS/EGPRS 1900: 1850 MHz ~ 1910 MHz	
	WCDMA/HSDPA/HSUPA Band 5: 824 MHz ~ 849 MHz	
TX Frequency Range	FDD LTE Band 5: 824 MHz ~ 849 MHz	
	FDD LTE Band 7: 2500 MHz ~ 2570 MHz	
	TDD LTE Band 38: 2570 MHz ~ 2620 MHz	
	TDD LTE Band	41: 2535 MHz ~ 2655 MHz
	GSM/GPRS/E0	GPRS 850: 869 MHz ~ 894 MHz
	GSM/GPRS/EGPRS 1900: 1930 MHz ~ 1990 MHz	
	WCDMA/HSDPA/HSUPA Band 5: 869 MHz ~ 894 MHz	
Rx Frequency Range	FDD LTE Band 5: 869 MHz ~ 894 MHz	
	FDD LTE Band 7: 2620 MHz ~ 2690 MHz	
	TDD LTE Band 38: 2570 MHz ~ 2620 MHz	
	TDD LTE Band	41: 2535 MHz ~ 2655 MHz



	GSM/GPRS 850: 4
	GSM/GPRS 1900: 1
	EGPRS 850/1900: E2
Power Class	WCDMA/HSDPA/HSUPA Band 5: 3
FUWEI Class	FDD LTE Band 5: 3
	FDD LTE Band 7: 3
	TDD LTE Band 38: 3
	TDD LTE Band 41: 3
Multislot Class	GPRS/EGPRS: 12
Antenna Type	PIFA Antenna
	GSM/GPRS/EGPRS 850: 0.5 dBi
	GSM/GPRS/EGPRS 1900: 1.1 dBi
	WCDMA/HSDPA/HSUPA Band 5: 0.5 dBi
Antenna Gain	FDD LTE Band 5: 0.5 dBi
	FDD LTE Band 7: 1.1 dBi
	TDD LTE Band 38: 1.1 dBi
	TDD LTE Band 41: 1.1 dBi
	GSM/GPRS/EGPRS 850: 30.99 dBm
	GSM/GPRS/EGPRS 1900: 31.35 dBm
The Max RF Output	WCDMA/HSDPA/HSUPA Band 5: 21.50 dBm
Power (EIRP/ERP)	FDD LTE Band 5: 21.43 dBm
TOWER (EIRIT/EIRIT)	FDD LTE Band 7: 23.97 dBm
	TDD LTE Band 38: 24.45 dBm
	TDD LTE Band 41: 25.02 dBm

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

Note 2: There are two main antennas and two diversity antennas for WWAN. Two diversity antennas only support receiving signal. Two main antennas have only one RF port, supporting transceiving, and can switch. But main antennas can't transmit simultaneously. Details please refer to internal photos.



3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters;
1	(10-1-18 Edition)	General Rules and Regulations
	47 CFR Part 22	
2	Subpart H	Cellular Radiotelephone Service
	(10-1-18 Edition)	
	47 CFR Part 24	
3	Subpart E	Broadband PCS
	(10-1-18 Edition)	
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
4	(10-1-18 Edition)	wiscenarieous wireless Communications Services
5	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment
5	ANSI/11A-003-E-2010	Measurement and Performance Standards
6	KDB 971168	Measurement Guidance for Certification of Licensed Digital
0	D01 v03r01	Transmitters



3.2 Test Verdict

No.	Test Description	FCC Part No.	Test Result	Test Verdict
1	Conducted RF Output Power	2.1046	Reporting only (ANNEX A.1)	Pass
2	Effective (Isotropic) Radiated Power	2.1046 22.913 24.232 27.50	ANNEX A.1	Pass
3	Peak to Average Radio	2.1046 24.232(d) 27.50(d)	ANNEX A.2	Pass
4	Occupied Bandwidth	2.1049 22.917 24.238 27.53	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	ANNEX A.5	Pass
7	Band Edge	2.1051 22.917 24.238 27.53	ANNEX A.6	Pass
8	Field Strength of Spurious Radiation	2.1053 22.917 24.238 27.53	ANNEX A.7	Pass



4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

	NV (Normal Voltage)	3.85 V
Test Voltage of the EUT	LV (Low Voltage)	3.6 V
	HV (High Voltage)	4.4 V
	NT (Normal Temperature)	+25 °C
Test Temperature of the EUT	LT (Low Temperature)	-30 °C
•	HT (High Temperature)	+50 °C

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Software /Firmware Version	Cal. Date	Cal. Due					
Conducted Test System											
Test Software 1	R&S	CMUgo	N/A	V2.0.1	N/A	N/A					
Test Software 2	R&S	CMWRun	N/A	V1.8.9	N/A	N/A					
Test Software 3	BALUN	BL410R	N/A	V2.1.1.38 7	N/A	N/A					
Universal Radio Communication Tester	R&S	CMU 200	119280	V5.13	2019.02.28	2020.02.27					
Wideband Radio Communication Tester	R&S	CMW 500	127794	V3.5.137	2019.06.13	2020.06.12					
Wideband Radio Communication Tester	R&S	CMW 500	120598	V3.5.137	2019.02.28	2020.02.27					
Spectrum Analyzer	R&S	FSV-30	103118	2.30.SP1	2019.06.13	2020.06.12					
Spectrum Analyzer	Agilent	E4440A	MY45304434	A.11.21	2019.10.30	2020.10.29					
Spectrum Analyzer	Agilent	E4440A	MY46181663	A.11.21	2019.10.30	2020.10.29					
Temperature Chamber	AHK	SP20	1412	N/A	2019.06.24	2020.06.23					
DC Power Supply	ITECH	IT6863A	6000140106 87210020	N/A	2019.06.18	2020.06.17					
Power Sensor	Agilent	E9304A H18	MY41497164	N/A	2019.10.30	2020.10.29					
Power Splitter	KMW	DCPD- LDC	1305003215	N/A	N/A	N/A					
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	N/A	N/A	N/A					



Description	Manufacturer	Model	Serial No.	Software /Firmware Version	Cal. Date	Cal. Due
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	N/A	N/A	N/A
Radiated Test Syste	em					
Test Software	BALUN	BL410_E	N/A	V16.921	N/A	N/A
Test Antenna- Bi-Log(30 MHz-3 GHz)	Schwarzbeck	VULB 9163	9163-624	N/A	2018.08.22	2020.08.21
Test Antenna- Horn(1-18 GHz)	Schwarzbeck	BBHA 9120D	9120D-1600	N/A	2018.07.11	2020.07.10
Test Antenna- Horn(18-40 GHz)	A-INFO	LB- 180400KF	J211060273	N/A	2019.01.05	2021.01.04
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	N/A	2017.02.21	2020.02.20
Shielded Enclosure	ChangNing	CN- 130701	130703	N/A	N/A	N/A
EMI Receiver	KEYSIGHT	N9038A	MY53220118	A.14.16	2019.10.29	2020.10.28
Spectrum Analyzer	R&S	FSV-30	103118	2.30.SP1	2019.06.13	2020.06.12
Wideband Radio Communication Tester	R&S	CMW 500	121551	V3.2.73	2019.02.28	2020.02.27



4.3 Test Configurations

Took Itama	Took Mode		Test Channel	
Test Items	Test Mode	LCH	MCH	HCH
	GSM 850	V	V	V
	GSM 1900	V	V	V
	GPRS 850	V	V	V
Effective (leetronie) Badiated	GPRS 1900	V	V	V
Effective (Isotropic) Radiated Power	EGPRS 850	V	V	V
rowei	EGPRS 1900	V	V	V
	WCDMA Band 5	V	V	V
	HSDPA Band 5	V	V	V
	HSUPA Band 5	V	V	V
Peak to Average Ratio	WCDMA Band 5	V	V	V
	GSM 850	V	V	V
	GSM 1900	V	V	V
Occupied Bandwidth	EGPRS 850	V	V	V
	EGPRS 1900	V	V	V
	WCDMA Band 5	V	V	V
	GSM 850	V	V	V
	GSM 1900	V	V	V
	GPRS 850	V	V	V
Frequency Stability	GPRS 1900	V	V	V
	EGPRS 850	V	V	V
	EGPRS 1900	V	V	V
	WCDMA Band 5	V	V	v
	GSM 850	V	V	V
	GSM 1900	V	V	v
Spurious Emission at Antenna	EGPRS 850	V	V	v
Terminals	EGPRS 1900	V	V	V
	WCDMA Band 5	V	V	v
	GSM 850	V		v
	GSM 1900	V		V
Band Edge	EGPRS 850	V		V
J	EGPRS 1900	V		V
	WCDMA Band 5	V		V
	GSM 850	V	V	V
	GSM 1900	V	V	V
Field Strength of Spurious	EGPRS 850	V	V	V
Radiation	EGPRS 1900	V	V	V
	WCDMA Band 5	V	V	V
Note 1: The mark "v" means that			1	I

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

LTE		Bar	ndwid	th (Mł	Hz)		Modula	ition Type		RB#		Te	st Chan	nel
Band	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	МСН	HCH
	Effective (Isotropic) Radiated Power													
5	٧	٧	٧	٧	n	n	V	٧	V	٧	٧	٧	V	V
7	n	n	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	V	V
38	n	n	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	V
41	n	n	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	V
						Pe	ak to Ave	rage Ratio						
5				٧	n	n	V	V	V		٧	٧	V	V
7	n	n				٧	V	V	V		٧	٧	V	V
38	n	n				٧	V	V	V		٧	٧	V	V
41	n	n				٧	V	V	٧		٧	٧	V	V
						0	ccupied E	Bandwidth						
5	V	٧	٧	٧	n	n	V	V			٧	٧	V	V
7	n	n	٧	٧	٧	٧	V	V			V	V	V	V
38	n	n	V	V	V	٧	V	V			٧	٧	V	V
41	n	n	V	V	V	٧	V	V			٧	٧	V	V
	1		ı	ı	ı	F	requency	Stability	ı				ı	ı
5				٧	n	n	V	V			V		V	
7	n	n		٧			V	V			٧		V	
38	n	n		٧			V	V			٧		V	
41	n	n		V			V	V			V		V	
			Ī		Spurio	us En	nission at	Antenna Te	ermina	als			T	
5	V	V	٧	V	n	n	V	V	V			V	V	V
7	n	n	٧	V	٧	٧	V	V	V			V	V	V
38	n	n	٧	V	٧	٧	V	V	V			V	V	V
41	n	n	V	V	V	V	V	V	V			V	V	V
				l l		l l	Band I		ı				I	
5	V	V	٧	V	n	n	V	V	V		V	V		V
7	n	n	V	V	V	٧	V	V	V		V	V		V
38	n	n	V	V	V	V	V	V	V		V	V		V



LTE	Bandwidth (MHz)			Modula	ition Type		RB#		Те	st Chan	nel			
Band	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	НСН
41	n	n	٧	٧	٧	٧	V	٧	٧		٧	٧		٧
					Field	d Stre	ngth of S	purious Rac	liation					
5	٧	٧	٧	٧	n	n	V		٧				٧	-
7	n	n	٧	٧	٧	٧	V		٧				٧	
38	n	n	٧	٧	٧	٧	V	-	٧		1		٧	1
41	n	n	٧	٧	>	٧	V	1	٧		ŀ		٧	I

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

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

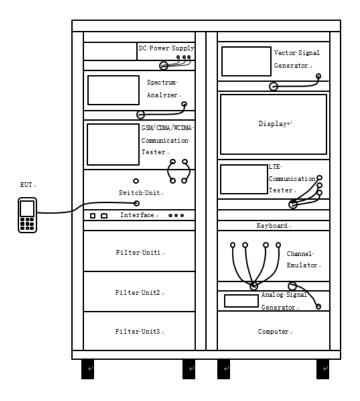


Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
		1.4	20407	824.7
		3	20415	825.5
	Low Range	5	20425	826.5
		10	20450	829
LTE Band 5	Middle Range	1.4/3/5/10	20525	836.5
		1.4	20643	848.3
	High Dagge	3	20635	847.5
	High Range	5	20625	846.5
		10	20600	844
		5	20775	2502.5
	Low Dongs	10	20800	2505
	Low Range	15	20825	2507.5
		20	20850	2510
LTE Band 7	Middle Range	5/10/15/20	21100	2535
		5	21425	2567.5
	High Range	10	21400	2565
		15 21375		2562.5
		20 21350		2560
		5	37775	2572.5
	Low Range	10	37800	2575
		15	37825	2577.5
		20	37850	2580
LTE Band 38	Middle Range	5/10/15/20	38000	2595
		5	38225	2617.5
	High Range	10	38200	2615
	riigiriXarige	15	38175	2612.5
		20	38150	2610
		5	40065	2537.5
	Low Range	10	40090	2540
	Low Italige	15	40115	2542.5
		20	40140	2545
LTE Band 41	Middle Range	5/10/15/20	40765	2607.5
		5	41215	2652.5
	High Pange	10	41190	2650
	High Range	15	41165	2647.5
		20	41140	2645



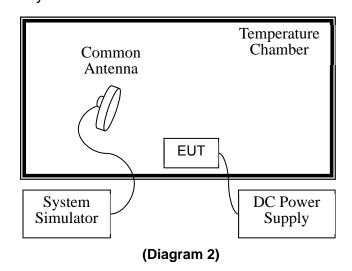
4.4 Test Setup

4.4.1 For Antenna Port Test



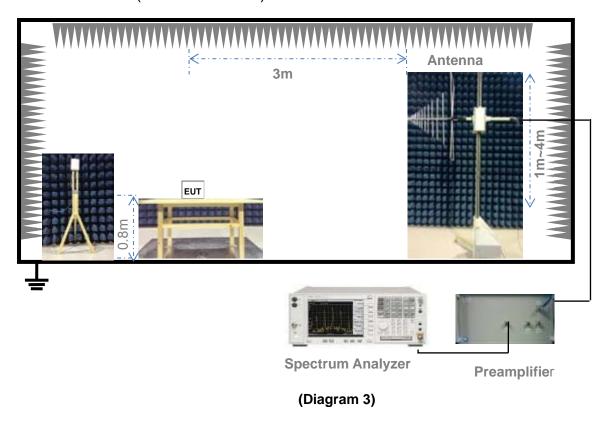
(Diagram 1)

4.4.2 For Frequency Stability Test

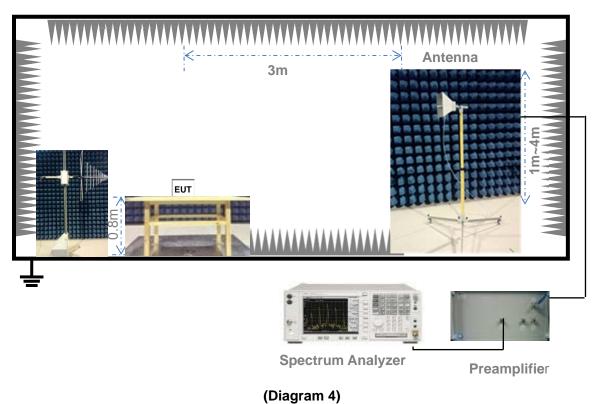




4.4.3 For Radiated Test (30 MHz ~ 1 GHz)



4.4.4 For Radiated Test (Above 1 GHz)





5 TEST ITEMS

5.1 Transmitter Radiated Power (EIRP/ERP)

5.1.1 Limit

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

According to FCC section 22.913(a) (5), the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

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

According to FCC section 27.50(a) (3), for mobile and portable stations transmitting in the 2305-2315MHz band or the 2350-2360MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards.

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

FCC section 27.50(c) (10), portable stations (hand-held devices) in the 600MHz uplink band and the 698-746MHz band, and fixed and mobile stations in the 600MHz uplink band are limited to 3 watts ERP.

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

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

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

5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for conducted test, and the section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

Description of the Conducted Output Power Measurement

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. A system simulator is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.



The relevant equation for determining the conducted measured value is:

Conducted Output Power Value (dBm) = Measured Value (dBm) + Path Loss (dB)

where:

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

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

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

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

For example:

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

Conducted Output Power Value (dBm) = 24.7 dBm + 8.5 dB = 33.2 dBm

Description of the Transmitter Radiated Power Measurement

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to an dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

Final measurement calculation as below:

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

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

where:

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

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

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

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

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



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

For example:

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

EIRP for GSM1900 = 30.2 dBm - 3.4 dBi - 0.6 dB = 26.2 dBm

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

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

where:

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

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm; Correction Factor = total correction factor including cable loss, in dB;

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

For example:

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

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

5.1.4 Test Result

Please refer to ANNEX A.1.



5.2 Peak to Average Ratio

5.2.1 Limit

FCC § 2.1046 & 24.232(d) & 27.50(d)

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

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

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

According to FCC section 27.50(d) (5), in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

5.2.2 Test Setup

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

5.2.3 Test Procedure

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

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

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
 - 1) for continuous transmissions, set to 1 ms,
- 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.



Alternate procedure for PAPR:

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

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

5.2.4 Test Result

Please refer to ANNEX A.2.



5.3 Occupied Bandwidth

5.3.1 Limit

FCC § 2.1049

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

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

The following procedure shall be used for measuring power bandwidth.

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

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



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

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

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

- i) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
- j) Change variable modulations, coding, or channel bandwidth settings, then repeat above test procedures.

5.3.4 Test Result

Please refer to ANNEX A.3.



5.4 Frequency Stability

5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235 & 27.54

FCC § 2.1055

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

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

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

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

FCC § 22.355

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

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

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

FCC § 24.235

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

FCC § 27.54

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



5.4.2 Test Setup

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

5.4.3 Test Procedure

- 1. The EUT is placed in a temperature chamber.
- 2. The temperature is set to 25°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured.
- 3. The temperature is increased by not more than 10 degrees, allowed to stabilize and soak, and then repeat the frequency error measurement.
- 4. Repeat procedure 3 until +50°C and -30°C is reached.
- 5. Change supply voltage, and repeat measurement until extreme voltage is reached.

5.4.4 Test Result

Please refer to ANNEX A.4.



5.5 Spurious Emission at Antenna Terminals

5.5.1 Limit

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

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

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

FCC § 22.917(a) & 24.238(a)

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

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1)By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337MHz.

(2)By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292MHz, and 70 + 10 log (P) dB below 2288MHz.

(3)By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365MHz, and not less than 70 + 10 log (P) dB above 2365MHz.

FCC § 27.53(c)

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

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;



- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

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

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

FCC § 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and - 80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g)

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

FCC § 27.53(h) (1)

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

FCC § 27.53(m) (4)

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

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

In addition, the attenuation factor shall not be less 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.

5.5.2 Test Setup

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

5.5.3 Test Procedure

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

- 1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.
- 2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
- The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
- 4. Spurious emissions are tested with 0.001MHz RBW for frequency less than 150kHz, 0.01MHz RBW for frequency less than 30MHz, 0.1MHz RBW for frequency less than 1GHz, and 1MHz RBW for frequency above 1GHz. And sweep point number are at least 401, referring to following formula.

Sweep point number = Span/RBW

VBW=3*RBW

Detector Mode=mean or average power

5. Record the frequencies and levels of spurious emissions.

5.5.4 Test Result

Please refer to ANNEX A.5.



5.6 Band Edge

5.6.1 Limit

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

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

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

FCC § 22.917(a) & 24.238(a)

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

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1)By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337MHz.

(2)By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292MHz, and 70 + 10 log (P) dB below 2288MHz.

(3)By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365MHz, and not less than 70 + 10 log (P) dB above 2365MHz.

FCC § 27.53(c)

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

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;



- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

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

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

FCC § 27.53(g)

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

FCC § 27.53(h) (1)

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

FCC § 27.53(m) (4)

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

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

In addition, the attenuation factor shall not be less 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 EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.
- 2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
- 3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
- 4. The center of the spectrum analyzer was set to block edge frequency.
- 5. Band edge are tested with 1%*cBW (RBW), and sweep point number referred to following formula.

Sweep point number = 2*Span/RBW

VBW=3RBW

6. Record the frequencies and levels of spurious emissions.

For mobile and portable stations, on all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment. Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10 kHz was used instead to show compliance. By using a 10 kHz bandwidth on the spectrum analyzer.

10*log(10 kHz / 6.25 kHz) = 2.04 dB Limit Line = -35 dBm + 2.04 dB = -32.96dBm

5.6.4 Test Result

Please refer to ANNEX A.6.



5.7 Field Strength of Spurious Radiation

5.7.1 Limit

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

FCC § 22.917(a) & 24.238(a)

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

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1)By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337MHz.

(2)By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292MHz, and 70 + 10 log (P) dB below 2288MHz.

(3)By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365MHz, and not less than 70 + 10 log (P) dB above 2365MHz.

FCC § 27.53(c)

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

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

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

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be



adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and - 80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g)

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

FCC § 27.53(h) (1)

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

FCC § 27.53(m) (4)

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

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

In addition, the attenuation factor shall not be less 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.

5.7.2 Test Setup

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



5.7.3 Test Procedure

- 1. On a test site, the EUT shall be placed at 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 \sim 849 MHz) or horn antenna (1 850 \sim 1 910 MHz) connected to a signal generator.
- 11. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- 12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- 13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring received, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- 14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- 15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.



Final measurement calculation as below:

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

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

where:

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

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm; Correction Factor = total correction factor including cable loss, in dB;

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

For example:

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

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

5.7.4 Test Result

Please refer to ANNEX A.7.



ANNEX A TEST RESULTS

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	LCH	32.44	0.5	-1.65	30.79	1.199	7.00	Pass
850	MCH	32.64	0.5	-1.65	30.99	1.256	7.00	Pass
830	HCH	32.43	0.5	-1.65	30.78	1.197	7.00	Pass
GPRS	LCH	32.44	0.5	-1.65	30.79	1.199	7.00	Pass
850	MCH	32.63	0.5	-1.65	30.98	1.253	7.00	Pass
830	HCH	32.41	0.5	-1.65	30.76	1.191	7.00	Pass
EGPRS	LCH	30.33	0.5	-1.65	28.68	0.738	7.00	Pass
850	MCH	29.98	0.5	-1.65	28.33	0.681	7.00	Pass
000	HCH	29.90	0.5	-1.65	28.25	0.668	7.00	Pass

Test Band	Test Channel	Conducted Output Peak Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
GSM	LCH	30.24	1.1	31.34	1.361	2.00	Pass
1900	MCH	30.12	1.1	31.22	1.324	2.00	Pass
1900	HCH	30.06	1.1	31.16	1.306	2.00	Pass
CDDC	LCH	30.25	1.1	31.35	1.365	2.00	Pass
GPRS 1900	MCH	30.04	1.1	31.14	1.300	2.00	Pass
1900	HCH	30.04	1.1	31.14	1.300	2.00	Pass
ECDD6	LCH	29.55	1.1	30.65	1.161	2.00	Pass
EGPRS 1900	MCH	29.24	1.1	30.34	1.081	2.00	Pass
1900	HCH	28.95	1.1	30.05	1.012	2.00	Pass

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

Note 2: ERP/EIRP = PMeas + GT - LC

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);

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.

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



GPRS Conducted Output Power

		Conducted Output Peak Power										
Band	Channel	Slot 1	Slot 1	Slot 2	Slot 2	Slot 3	Slot 3	Slot 4	Slot 4			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)			
CDDC	LCH	32.44	1.754	30.31	1.074	29.27	0.845	28.34	0.683			
GPRS 850	MCH	32.63	1.832	30.73	1.182	29.44	0.878	28.37	0.687			
650	HCH	32.41	1.742	30.76	1.191	29.08	0.809	28.31	0.677			
CDDC	LCH	30.25	1.059	27.38	0.546	26.43	0.440	25.09	0.323			
GPRS 1900	MCH	30.04	1.009	27.20	0.524	26.21	0.418	24.82	0.303			
1900	HCH	30.04	1.009	27.09	0.512	26.27	0.423	24.86	0.306			

EGPRS Conducted Output Power

			Conducted Output Peak Power									
Band	Channel	Slot 1	Slot 1	Slot 2	Slot 2	Slot 3	Slot 3	Slot 4	Slot 4			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)			
CODO	LCH	30.33	1.079	28.11	0.646	27.47	0.558	27.41	0.551			
EGPRS 850	MCH	29.98	0.995	27.61	0.577	27.01	0.502	26.86	0.486			
650	HCH	29.90	0.977	27.61	0.577	26.82	0.480	26.70	0.467			
CODDC	LCH	29.55	0.902	28.60	0.724	27.91	0.618	27.77	0.598			
EGPRS	MCH	29.24	0.839	28.27	0.671	27.67	0.585	27.43	0.554			
1900	HCH	28.95	0.785	27.92	0.620	27.19	0.524	27.08	0.511			



WCDMA Mode Test Data

Test Band	Test Channel	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
WCDMA	LCH	23.15	0.5	-1.65	21.50	0.141	7.00	Pass
Band 5	MCH	23.13	0.5	-1.65	21.48	0.141	7.00	Pass
Dallu 3	HCH	23.13	0.5	-1.65	21.48	0.141	7.00	Pass
HSDPA	LCH	22.20	0.5	-1.65	20.55	0.114	7.00	Pass
Band 5	MCH	22.20	0.5	-1.65	20.55	0.114	7.00	Pass
Danu 3	HCH	22.17	0.5	-1.65	20.52	0.113	7.00	Pass
ПСПВУ	LCH	22.24	0.5	-1.65	20.59	0.115	7.00	Pass
HSUPA Band 5	MCH	22.16	0.5	-1.65	20.51	0.112	7.00	Pass
Danu 5	HCH	22.17	0.5	-1.65	20.52	0.113	7.00	Pass

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

Note 2: ERP/EIRP = PMeas + GT - LC

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);

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

			Conducted Output Average Power											
Band	Channel	Subtest1		Subtest2		Subt		Subtest4						
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)					
LICDDA	LCH	22.17	0.165	22.20	0.166	21.72	0.149	21.75	0.150					
HSDPA Band 5	MCH	22.15	0.164	22.20	0.166	21.71	0.148	21.71	0.148					
Dallu 3	HCH	22.15	0.164	22.17	0.165	21.71	0.148	21.68	0.147					

HSUPA Conducted Output Power

			Conducted Output Average Power										
Band	Channel	Subtest1		Subtest2		Subtest3		Subtest4		Subtest5			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
LICLIDA	LCH	22.24	0.167	20.19	0.104	21.16	0.131	20.20	0.105	22.17	0.165		
HSUPA Band 5	MCH	22.16	0.164	20.13	0.103	21.13	0.130	20.19	0.104	22.12	0.163		
Band 5	HCH	22.17	0.165	20.15	0.104	21.14	0.130	20.10	0.102	22.15	0.164		



LTE Mode Test Data

LIE MOO	<u>le Test Data</u>			_						
Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND5					
			RB1#0	22.78	0.5	-1.65	21.13	0.130	7.00	Pass
			RB1#3	22.88	0.5	-1.65	21.23	0.133	7.00	Pass
			RB1#5	22.82	0.5	-1.65	21.17	0.131	7.00	Pass
		QPSK	RB3#0	22.83	0.5	-1.65	21.18	0.131	7.00	Pass
			RB3#2	22.91	0.5	-1.65	21.26	0.134	7.00	Pass
			RB3#3	22.82	0.5	-1.65	21.17	0.131	7.00	Pass
	LCH		RB6#0	21.86	0.5	-1.65	20.21	0.105	7.00	Pass
	LOIT		RB1#0	22.02	0.5	-1.65	20.37	0.109	7.00	Pass
			RB1#3	22.06	0.5	-1.65	20.41	0.110	7.00	Pass
		16-	RB1#5	22.08	0.5	-1.65	20.43	0.110	7.00	Pass
		QAM	RB3#0	21.98	0.5	-1.65	20.33	0.108	7.00	Pass
	G. W.	Q7 tivi	RB3#2	22.02	0.5	-1.65	20.37	0.109	7.00	Pass
			RB3#3	21.98	0.5	-1.65	20.33	0.108	7.00	Pass
			RB6#0	21.09	0.5	-1.65	19.44	0.088	7.00	Pass
			RB1#0	22.81	0.5	-1.65	21.16	0.131	7.00	Pass
		QPSK	RB1#3	22.91	0.5	-1.65	21.26	0.134	7.00	Pass
			RB1#5	22.80	0.5	-1.65	21.15	0.130	7.00	Pass
			RB3#0	22.83	0.5	-1.65	21.18	0.131	7.00	Pass
1.4			RB3#2	22.88	0.5	-1.65	21.23	0.133	7.00	Pass
MHz			RB3#3	22.81	0.5	-1.65	21.16	0.131	7.00	Pass
	MCH		RB6#0	21.90	0.5	-1.65	20.25	0.106	7.00	Pass
			RB1#0	22.24	0.5	-1.65	20.59	0.115	7.00	Pass
			RB1#3	22.27	0.5	-1.65	20.62	0.115	7.00	Pass
		16-	RB1#5	22.24	0.5	-1.65	20.59	0.115	7.00	Pass
		QAM	RB3#0	22.05	0.5	-1.65	20.40	0.110	7.00	Pass
			RB3#2	22.11	0.5	-1.65	20.46	0.111	7.00	Pass
			RB3#3	22.03	0.5	-1.65	20.38	0.109	7.00	Pass
			RB6#0	20.85	0.5	-1.65	19.20	0.083	7.00	Pass
			RB1#0	22.92	0.5	-1.65	21.27	0.134	7.00	Pass
			RB1#3	22.98	0.5	-1.65	21.33	0.136	7.00	Pass
		0.0014	RB1#5	22.93	0.5	-1.65	21.28	0.134	7.00	Pass
		QPSK	RB3#0	22.88	0.5	-1.65	21.23	0.133	7.00	Pass
	НСН		RB3#2	22.95	0.5	-1.65	21.30	0.135	7.00	Pass
			RB3#3	22.89	0.5	-1.65	21.24	0.133	7.00	Pass
			RB6#0	21.98	0.5	-1.65	20.33	0.108	7.00	Pass
		16-	RB1#0	21.90	0.5	-1.65	20.25	0.106	7.00	Pass
		QAM	RB1#3	21.96	0.5	-1.65	20.31	0.107	7.00	Pass
			RB1#5	21.93	0.5	-1.65	20.28	0.107	7.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND5					
			RB3#0	22.03	0.5	-1.65	20.38	0.109	7.00	Pass
			RB3#2	22.10	0.5	-1.65	20.45	0.111	7.00	Pass
			RB3#3	22.03	0.5	-1.65	20.38	0.109	7.00	Pass
			RB6#0	21.16	0.5	-1.65	19.51	0.089	7.00	Pass
			RB1#0	22.93	0.5	-1.65	21.28	0.134	7.00	Pass
			RB1#7	22.91	0.5	-1.65	21.26	0.134	7.00	Pass
			RB1#14	22.92	0.5	-1.65	21.27	0.134	7.00	Pass
		QPSK	RB8#0	21.95	0.5	-1.65	20.30	0.107	7.00	Pass
			RB8#4	21.97	0.5	-1.65	20.32	0.108	7.00	Pass
			RB8#7	21.94	0.5	-1.65	20.29	0.107	7.00	Pass
	LCH		RB15#0	21.95	0.5	-1.65	20.30	0.107	7.00	Pass
	LOIT		RB1#0	21.92	0.5	-1.65	20.27	0.106	7.00	Pass
			RB1#7	21.89	0.5	-1.65	20.24	0.106	7.00	Pass
	10	16-	RB1#14	21.84	0.5	-1.65	20.19	0.104	7.00	Pass
		QAM	RB8#0	21.15	0.5	-1.65	19.50	0.089	7.00	Pass
		QAIVI	RB8#4	21.16	0.5	-1.65	19.51	0.089	7.00	Pass
			RB8#7	21.11	0.5	-1.65	19.46	0.088	7.00	Pass
			RB15#0	21.08	0.5	-1.65	19.43	0.088	7.00	Pass
			RB1#0	22.93	0.5	-1.65	21.28	0.134	7.00	Pass
			RB1#7	22.91	0.5	-1.65	21.26	0.134	7.00	Pass
			RB1#14	22.91	0.5	-1.65	21.26	0.134	7.00	Pass
3 MHz		QPSK	RB8#0	21.97	0.5	-1.65	20.32	0.108	7.00	Pass
			RB8#4	21.97	0.5	-1.65	20.32	0.108	7.00	Pass
			RB8#7	21.91	0.5	-1.65	20.26	0.106	7.00	Pass
	MCH		RB15#0	21.96	0.5	-1.65	20.31	0.107	7.00	Pass
			RB1#0	22.36	0.5	-1.65	20.71	0.118	7.00	Pass
			RB1#7	22.32	0.5	-1.65	20.67	0.117	7.00	Pass
		16-	RB1#14	22.30	0.5	-1.65	20.65	0.116	7.00	Pass
		QAM	RB8#0	21.07	0.5	-1.65	19.42	0.087	7.00	Pass
			RB8#4	21.08	0.5	-1.65	19.43	0.088	7.00	Pass
			RB8#7	21.03	0.5	-1.65	19.38	0.087	7.00	Pass
			RB15#0	21.04	0.5	-1.65	19.39	0.087	7.00	Pass
			RB1#0	23.05	0.5	-1.65	21.40	0.138	7.00	Pass
			RB1#7	23.03	0.5	-1.65	21.38	0.137	7.00	Pass
			RB1#14	23.01	0.5	-1.65	21.36	0.137	7.00	Pass
	HCH	QPSK	RB8#0	21.98	0.5	-1.65	20.33	0.108	7.00	Pass
			RB8#4	22.06	0.5	-1.65	20.41	0.110	7.00	Pass
			RB8#7	22.02	0.5	-1.65	20.37	0.109	7.00	Pass
			RB15#0	22.03	0.5	-1.65	20.38	0.109	7.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				,	AND5					
			RB1#0	22.05	0.5	-1.65	20.40	0.110	7.00	Pass
			RB1#7	21.98	0.5	-1.65	20.33	0.108	7.00	Pass
		40	RB1#14	22.00	0.5	-1.65	20.35	0.108	7.00	Pass
		16- QAM	RB8#0	21.09	0.5	-1.65	19.44	0.088	7.00	Pass
		QAM	RB8#4	21.12	0.5	-1.65	19.47	0.089	7.00	Pass
			RB8#7	21.06	0.5	-1.65	19.41	0.087	7.00	Pass
			RB15#0	21.02	0.5	-1.65	19.37	0.086	7.00	Pass
			RB1#0	22.98	0.5	-1.65	21.33	0.136	7.00	Pass
			RB1#13	23.00	0.5	-1.65	21.35	0.136	7.00	Pass
			RB1#24	23.06	0.5	-1.65	21.41	0.138	7.00	Pass
		QPSK	RB12#0	22.02	0.5	-1.65	20.37	0.109	7.00	Pass
			RB12#6	22.01	0.5	-1.65	20.36	0.109	7.00	Pass
			RB12#13	22.10	0.5	-1.65	20.45	0.111	7.00	Pass
	LCH		RB25#0	22.06	0.5	-1.65	20.41	0.110	7.00	Pass
	LOIT		RB1#0	22.19	0.5	-1.65	20.54	0.113	7.00	Pass
			RB1#13	22.19	0.5	-1.65	20.54	0.113	7.00	Pass
		16-	RB1#24	22.26	0.5	-1.65	20.61	0.115	7.00	Pass
		QAM	RB12#0	21.12	0.5	-1.65	19.47	0.089	7.00	Pass
			RB12#6	21.13	0.5	-1.65	19.48	0.089	7.00	Pass
			RB12#13	21.20	0.5	-1.65	19.55	0.090	7.00	Pass
			RB25#0	21.15	0.5	-1.65	19.50	0.089	7.00	Pass
			RB1#0	22.91	0.5	-1.65	21.26	0.134	7.00	Pass
5 MHz			RB1#13	22.99	0.5	-1.65	21.34	0.136	7.00	Pass
3 1011 12			RB1#24	23.05	0.5	-1.65	21.40	0.138	7.00	Pass
		QPSK	RB12#0	22.00	0.5	-1.65	20.35	0.108	7.00	Pass
			RB12#6	21.97	0.5	-1.65	20.32	0.108	7.00	Pass
			RB12#13	21.96	0.5	-1.65	20.31	0.107	7.00	Pass
	MCH		RB25#0	21.99	0.5	-1.65	20.34	0.108	7.00	Pass
	WIOTT		RB1#0	22.41	0.5	-1.65	20.76	0.119	7.00	Pass
			RB1#13	22.54	0.5	-1.65	20.89	0.123	7.00	Pass
		16-	RB1#24	22.56	0.5	-1.65	20.91	0.123	7.00	Pass
			RB12#0	21.18	0.5	-1.65	19.53	0.090	7.00	Pass
	QAM	RB12#6	21.14	0.5	-1.65	19.49	0.089	7.00	Pass	
			RB12#13	21.14	0.5	-1.65	19.49	0.089	7.00	Pass
			RB25#0	21.09	0.5	-1.65	19.44	0.088	7.00	Pass
			RB1#0	23.06	0.5	-1.65	21.41	0.138	7.00	Pass
	HCH	QPSK	RB1#13	23.08	0.5	-1.65	21.43	0.139	7.00	Pass
	11011	QI OIX	RB1#24	23.05	0.5	-1.65	21.40	0.138	7.00	Pass
			RB12#0	22.10	0.5	-1.65	20.45	0.111	7.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND5					
			RB12#6	22.11	0.5	-1.65	20.46	0.111	7.00	Pass
			RB12#13	22.04	0.5	-1.65	20.39	0.109	7.00	Pass
			RB25#0	22.06	0.5	-1.65	20.41	0.110	7.00	Pass
			RB1#0	22.15	0.5	-1.65	20.50	0.112	7.00	Pass
			RB1#13	22.18	0.5	-1.65	20.53	0.113	7.00	Pass
		40	RB1#24	22.14	0.5	-1.65	20.49	0.112	7.00	Pass
		16-	RB12#0	21.16	0.5	-1.65	19.51	0.089	7.00	Pass
		QAM	RB12#6	21.19	0.5	-1.65	19.54	0.090	7.00	Pass
			RB12#13	21.12	0.5	-1.65	19.47	0.089	7.00	Pass
			RB25#0	21.05	0.5	-1.65	19.40	0.087	7.00	Pass
			RB1#0	22.99	0.5	-1.65	21.34	0.136	7.00	Pass
			RB1#25	22.98	0.5	-1.65	21.33	0.136	7.00	Pass
			RB1#49	22.93	0.5	-1.65	21.28	0.134	7.00	Pass
	QPS	QPSK	RB25#0	22.08	0.5	-1.65	20.43	0.110	7.00	Pass
			RB25#13	22.08	0.5	-1.65	20.43	0.110	7.00	Pass
			RB25#25	22.05	0.5	-1.65	20.40	0.110	7.00	Pass
	LCH		RB50#0	22.03	0.5	-1.65	20.38	0.109	7.00	Pass
	LON		RB1#0	21.95	0.5	-1.65	20.30	0.107	7.00	Pass
			RB1#25	21.93	0.5	-1.65	20.28	0.107	7.00	Pass
		16-	RB1#49	21.84	0.5	-1.65	20.19	0.104	7.00	Pass
		QAM	RB25#0	21.12	0.5	-1.65	19.47	0.089	7.00	Pass
		QAIVI	RB25#13	21.12	0.5	-1.65	19.47	0.089	7.00	Pass
			RB25#25	21.09	0.5	-1.65	19.44	0.088	7.00	Pass
10			RB50#0	21.05	0.5	-1.65	19.40	0.087	7.00	Pass
MHz			RB1#0	22.92	0.5	-1.65	21.27	0.134	7.00	Pass
1011 12			RB1#25	22.88	0.5	-1.65	21.23	0.133	7.00	Pass
			RB1#49	22.99	0.5	-1.65	21.34	0.136	7.00	Pass
		QPSK	RB25#0	22.00	0.5	-1.65	20.35	0.108	7.00	Pass
			RB25#13	22.01	0.5	-1.65	20.36	0.109	7.00	Pass
			RB25#25	21.97	0.5	-1.65	20.32	0.108	7.00	Pass
	MCH		RB50#0	21.96	0.5	-1.65	20.31	0.107	7.00	Pass
	IVIOII		RB1#0	22.31	0.5	-1.65	20.66	0.116	7.00	Pass
			RB1#25	22.33	0.5	-1.65	20.68	0.117	7.00	Pass
		16-	RB1#49	22.39	0.5	-1.65	20.74	0.119	7.00	Pass
		QAM	RB25#0	21.06	0.5	-1.65	19.41	0.087	7.00	Pass
		G, tivi	RB25#13	21.10	0.5	-1.65	19.45	0.088	7.00	Pass
			RB25#25	21.03	0.5	-1.65	19.38	0.087	7.00	Pass
		RB50#0	21.03	0.5	-1.65	19.38	0.087	7.00	Pass	
	HCH	QPSK	RB1#0	23.02	0.5	-1.65	21.37	0.137	7.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBi)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
				LTE B	AND5					
			RB1#25	23.05	0.5	-1.65	21.40	0.138	7.00	Pass
			RB1#49	23.07	0.5	-1.65	21.42	0.139	7.00	Pass
			RB25#0	21.98	0.5	-1.65	20.33	0.108	7.00	Pass
			RB25#13	22.11	0.5	-1.65	20.46	0.111	7.00	Pass
			RB25#25	22.07	0.5	-1.65	20.42	0.110	7.00	Pass
			RB50#0	22.01	0.5	-1.65	20.36	0.109	7.00	Pass
			RB1#0	22.08	0.5	-1.65	20.43	0.110	7.00	Pass
			RB1#25	22.06	0.5	-1.65	20.41	0.110	7.00	Pass
		16	RB1#49	22.02	0.5	-1.65	20.37	0.109	7.00	Pass
		16-	RB25#0	21.14	0.5	-1.65	19.49	0.089	7.00	Pass
	QAM -	RB25#13	21.24	0.5	-1.65	19.59	0.091	7.00	Pass	
			RB25#25	21.18	0.5	-1.65	19.53	0.090	7.00	Pass
			RB50#0	21.03	0.5	-1.65	19.38	0.087	7.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict		
	LTE BAND7										
			RB1#0	22.35	1.1	23.45	0.221	2.00	Pass		
			RB1#13	22.45	1.1	23.55	0.226	2.00	Pass		
			RB1#24	22.33	1.1	23.43	0.220	2.00	Pass		
		QPSK	RB12#0	21.41	1.1	22.51	0.178	2.00	Pass		
			RB12#6	21.42	1.1	22.52	0.179	2.00	Pass		
			RB12#13	21.39	1.1	22.49	0.177	2.00	Pass		
	LCH		RB25#0	21.37	1.1	22.47	0.177	2.00	Pass		
	LOIT		RB1#0	21.56	1.1	22.66	0.185	2.00	Pass		
			RB1#13	21.62	1.1	22.72	0.187	2.00	Pass		
			RB1#24	21.55	1.1	22.65	0.184	2.00	Pass		
		16-QAM	RB12#0	20.53	1.1	21.63	0.146	2.00	Pass		
			RB12#6	20.60	1.1	21.70	0.148	2.00	Pass		
			RB12#13	20.53	1.1	21.63	0.146	2.00	Pass		
			RB25#0	20.50	1.1	21.60	0.145	2.00	Pass		
			RB1#0	22.64	1.1	23.74	0.237	2.00	Pass		
			RB1#13	22.63	1.1	23.73	0.236	2.00	Pass		
		QPSK	RB1#24	22.53	1.1	23.63	0.231	2.00	Pass		
			RB12#0	21.67	1.1	22.77	0.189	2.00	Pass		
5 MHz			RB12#6	21.64	1.1	22.74	0.188	2.00	Pass		
O WII IZ			RB12#13	21.58	1.1	22.68	0.185	2.00	Pass		
	MCH		RB25#0	21.61	1.1	22.71	0.187	2.00	Pass		
	WIGHT		RB1#0	22.19	1.1	23.29	0.213	2.00	Pass		
			RB1#13	22.21	1.1	23.31	0.214	2.00	Pass		
			RB1#24	22.12	1.1	23.22	0.210	2.00	Pass		
		16-QAM	RB12#0	20.87	1.1	21.97	0.157	2.00	Pass		
			RB12#6	20.83	1.1	21.93	0.156	2.00	Pass		
			RB12#13	20.80	1.1	21.90	0.155	2.00	Pass		
			RB25#0	20.74	1.1	21.84	0.153	2.00	Pass		
			RB1#0	22.74	1.1	23.84	0.242	2.00	Pass		
			RB1#13	22.77	1.1	23.87	0.244	2.00	Pass		
			RB1#24	22.68	1.1	23.78	0.239	2.00	Pass		
		QPSK	RB12#0	21.81	1.1	22.91	0.195	2.00	Pass		
	НСН		RB12#6	21.81	1.1	22.91	0.195	2.00	Pass		
			RB12#13	21.79	1.1	22.89	0.195	2.00	Pass		
			RB25#0	21.76	1.1	22.86	0.193	2.00	Pass		
			RB1#0	21.92	1.1	23.02	0.200	2.00	Pass		
		16-QAM	RB1#13	21.94	1.1	23.04	0.201	2.00	Pass		
			RB1#24	21.82	1.1	22.92	0.196	2.00	Pass		



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
				(dBm) LTE BAND7					
			RB12#0	20.94	1.1	22.04	0.160	2.00	Pass
			RB12#6	20.89	1.1	21.99	0.158	2.00	Pass
			RB12#13	20.88	1.1	21.98	0.158	2.00	Pass
			RB25#0	20.80	1.1	21.90	0.155	2.00	Pass
			RB1#0	22.43	1.1	23.53	0.225	2.00	Pass
			RB1#25	22.41	1.1	23.51	0.224	2.00	Pass
			RB1#49	22.51	1.1	23.61	0.230	2.00	Pass
		QPSK	RB25#0	21.43	1.1	22.53	0.179	2.00	Pass
			RB25#13	21.50	1.1	22.60	0.182	2.00	Pass
			RB25#25	21.53	1.1	22.63	0.183	2.00	Pass
			RB50#0	21.50	1.1	22.60	0.182	2.00	Pass
	LCH		RB1#0	21.36	1.1	22.46	0.176	2.00	Pass
			RB1#25	21.33	1.1	22.43	0.175	2.00	Pass
		16-QAM	RB1#49	21.43	1.1	22.53	0.179	2.00	Pass
			RB25#0	20.53	1.1	21.63	0.146	2.00	Pass
			RB25#13	20.53	1.1	21.63	0.146	2.00	Pass
			RB25#25	20.59	1.1	21.69	0.148	2.00	Pass
			RB50#0	20.61	1.1	21.71	0.148	2.00	Pass
			RB1#0	22.63	1.1	23.73	0.236	2.00	Pass
			RB1#25	22.58	1.1	23.68	0.233	2.00	Pass
			RB1#49	22.52	1.1	23.62	0.230	2.00	Pass
10 MHz		QPSK	RB25#0	21.64	1.1	22.74	0.188	2.00	Pass
			RB25#13	21.69	1.1	22.79	0.190	2.00	Pass
			RB25#25	21.61	1.1	22.71	0.187	2.00	Pass
	MCH		RB50#0	21.63	1.1	22.73	0.187	2.00	Pass
	WIGHT		RB1#0	22.04	1.1	23.14	0.206	2.00	Pass
			RB1#25	22.03	1.1	23.13	0.206	2.00	Pass
			RB1#49	21.90	1.1	23.00	0.200	2.00	Pass
		16-QAM	RB25#0	20.79	1.1	21.89	0.155	2.00	Pass
			RB25#13	20.75	1.1	21.85	0.153	2.00	Pass
			RB25#25	20.72	1.1	21.82	0.152	2.00	Pass
			RB50#0	20.70	1.1	21.80	0.151	2.00	Pass
			RB1#0	22.83	1.1	23.93	0.247	2.00	Pass
			RB1#25	22.76	1.1	23.86	0.243	2.00	Pass
			RB1#49	22.69	1.1	23.79	0.239	2.00	Pass
	HCH	QPSK	RB25#0	21.82	1.1	22.92	0.196	2.00	Pass
			RB25#13	21.81	1.1	22.91	0.195	2.00	Pass
			RB25#25	21.79	1.1	22.89	0.195	2.00	Pass
			RB50#0	21.84	1.1	22.94	0.197	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			l	TE BAND7					
			RB1#0	21.88	1.1	22.98	0.199	2.00	Pass
			RB1#25	21.84	1.1	22.94	0.197	2.00	Pass
			RB1#49	21.68	1.1	22.78	0.190	2.00	Pass
		16-QAM	RB25#0	21.02	1.1	22.12	0.163	2.00	Pass
			RB25#13	21.02	1.1	22.12	0.163	2.00	Pass
			RB25#25	20.91	1.1	22.01	0.159	2.00	Pass
			RB50#0	20.92	1.1	22.02	0.159	2.00	Pass
			RB1#0	22.43	1.1	23.53	0.225	2.00	Pass
			RB1#38	22.39	1.1	23.49	0.223	2.00	Pass
			RB1#74	22.53	1.1	23.63	0.231	2.00	Pass
		QPSK	RB36#0	21.45	1.1	22.55	0.180	2.00	Pass
			RB36#19	21.55	1.1	22.65	0.184	2.00	Pass
			RB36#39	21.53	1.1	22.63	0.183	2.00	Pass
	LCH		RB75#0	21.51	1.1	22.61	0.182	2.00	Pass
	2011		RB1#0	21.37	1.1	22.47	0.177	2.00	Pass
			RB1#38	21.35	1.1	22.45	0.176	2.00	Pass
			RB1#74	21.43	1.1	22.53	0.179	2.00	Pass
		16-QAM	RB36#0	20.57	1.1	21.67	0.147	2.00	Pass
			RB36#19	20.65	1.1	21.75	0.150	2.00	Pass
			RB36#39	20.60	1.1	21.70	0.148	2.00	Pass
			RB75#0	20.67	1.1	21.77	0.150	2.00	Pass
			RB1#0	22.59	1.1	23.69	0.234	2.00	Pass
15 MHz			RB1#38	22.54	1.1	23.64	0.231	2.00	Pass
10 111112			RB1#74	22.35	1.1	23.45	0.221	2.00	Pass
		QPSK	RB36#0	21.69	1.1	22.79	0.190	2.00	Pass
			RB36#19	21.61	1.1	22.71	0.187	2.00	Pass
			RB36#39	21.55	1.1	22.65	0.184	2.00	Pass
	MCH		RB75#0	21.65	1.1	22.75	0.188	2.00	Pass
			RB1#0	22.04	1.1	23.14	0.206	2.00	Pass
			RB1#38	21.99	1.1	23.09	0.204	2.00	Pass
			RB1#74	21.79	1.1	22.89	0.195	2.00	Pass
		16-QAM	RB36#0	20.79	1.1	21.89	0.155	2.00	Pass
			RB36#19	20.80	1.1	21.90	0.155	2.00	Pass
			RB36#39	20.67	1.1	21.77	0.150	2.00	Pass
			RB75#0	20.74	1.1	21.84	0.153	2.00	Pass
			RB1#0	22.87	1.1	23.97	0.249	2.00	Pass
	HCH	QPSK -	RB1#38	22.79	1.1	23.89	0.245	2.00	Pass
			RB1#74	22.67	1.1	23.77	0.238	2.00	Pass
			RB36#0	21.87	1.1	22.97	0.198	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
				LTE BAND7					
			RB36#19	21.81	1.1	22.91	0.195	2.00	Pass
			RB36#39	21.72	1.1	22.82	0.191	2.00	Pass
			RB75#0	21.79	1.1	22.89	0.195	2.00	Pass
			RB1#0	22.24	1.1	23.34	0.216	2.00	Pass
			RB1#38	22.16	1.1	23.26	0.212	2.00	Pass
			RB1#74	22.05	1.1	23.15	0.207	2.00	Pass
		16-QAM	RB36#0	20.91	1.1	22.01	0.159	2.00	Pass
			RB36#19	20.91	1.1	22.01	0.159	2.00	Pass
			RB36#39	20.85	1.1	21.95	0.157	2.00	Pass
			RB75#0	20.86	1.1	21.96	0.157	2.00	Pass
			RB1#0	22.46	1.1	23.56	0.227	2.00	Pass
			RB1#50	22.53	1.1	23.63	0.231	2.00	Pass
			RB1#99	22.42	1.1	23.52	0.225	2.00	Pass
		QPSK	RB50#0	21.59	1.1	22.69	0.186	2.00	Pass
			RB50#25	21.57	1.1	22.67	0.185	2.00	Pass
			RB50#50	21.53	1.1	22.63	0.183	2.00	Pass
	LCH		RB100#0	21.53	1.1	22.63	0.183	2.00	Pass
	LCH		RB1#0	21.97	1.1	23.07	0.203	2.00	Pass
			RB1#50	22.01	1.1	23.11	0.205	2.00	Pass
			RB1#99	22.00	1.1	23.10	0.204	2.00	Pass
		16-QAM	RB50#0	20.69	1.1	21.79	0.151	2.00	Pass
			RB50#25	20.70	1.1	21.80	0.151	2.00	Pass
			RB50#50	20.66	1.1	21.76	0.150	2.00	Pass
			RB100#0	20.69	1.1	21.79	0.151	2.00	Pass
20 MHz			RB1#0	22.72	1.1	23.82	0.241	2.00	Pass
			RB1#50	22.66	1.1	23.76	0.238	2.00	Pass
			RB1#99	22.48	1.1	23.58	0.228	2.00	Pass
		QPSK	RB50#0	21.78	1.1	22.88	0.194	2.00	Pass
			RB50#25	21.71	1.1	22.81	0.191	2.00	Pass
			RB50#50	21.64	1.1	22.74	0.188	2.00	Pass
	MCH		RB100#0	21.68	1.1	22.78	0.190	2.00	Pass
	WIOTT		RB1#0	22.15	1.1	23.25	0.211	2.00	Pass
			RB1#50	22.11	1.1	23.21	0.209	2.00	Pass
			RB1#99	21.91	1.1	23.01	0.200	2.00	Pass
		16-QAM	RB50#0	20.84	1.1	21.94	0.156	2.00	Pass
			RB50#25	20.80	1.1	21.90	0.155	2.00	Pass
			RB50#50	20.70	1.1	21.80	0.151	2.00	Pass
			RB100#0	20.79	1.1	21.89	0.155	2.00	Pass
	HCH	QPSK	RB1#0	22.78	1.1	23.88	0.244	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			ı	TE BAND7					
			RB1#50	22.79	1.1	23.89	0.245	2.00	Pass
			RB1#99	22.68	1.1	23.78	0.239	2.00	Pass
			RB50#0	21.80	1.1	22.90	0.195	2.00	Pass
			RB50#25	21.88	1.1	22.98	0.199	2.00	Pass
			RB50#50	21.86	1.1	22.96	0.198	2.00	Pass
			RB100#0	21.77	1.1	22.87	0.194	2.00	Pass
			RB1#0	22.22	1.1	23.32	0.215	2.00	Pass
			RB1#50	22.17	1.1	23.27	0.212	2.00	Pass
			RB1#99	22.15	1.1	23.25	0.211	2.00	Pass
		16-QAM	RB50#0	20.88	1.1	21.98	0.158	2.00	Pass
			RB50#25	20.99	1.1	22.09	0.162	2.00	Pass
			RB50#50	20.89	1.1	21.99	0.158	2.00	Pass
			RB100#0	20.88	1.1	21.98	0.158	2.00	Pass



				Conducted					
Toot	Toot	Toot	Toot DD	Conducted	Antenna	FIDD	EIRP	Limit	
Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Output AV Power	Gain	EIRP	(W)	(W)	Verdict
DVV	Charmer	Mode	(Size#Oliset)	(dBm)	(dBi)	(dBm)	(۷۷)	(۷۷)	
				TE BAND38					
			RB1#0	23.24	1.1	24.34	0.272	2.00	Pass
			RB1#13	23.23	1.1	24.33	0.272	2.00	Pass
			RB1#13	23.14	1.1	24.33	0.271	2.00	Pass
		QPSK	RB12#0	22.21	1.1	23.31	0.203	2.00	Pass
		QION	RB12#6	22.26	1.1	23.36	0.217	2.00	Pass
			RB12#13	22.18	1.1	23.28	0.213	2.00	Pass
			RB25#0	22.10	1.1	23.32	0.215	2.00	Pass
	LCH		RB1#0	22.71	1.1	23.81	0.240	2.00	Pass
			RB1#13	22.72	1.1	23.82	0.241	2.00	Pass
			RB1#24	22.64	1.1	23.74	0.237	2.00	Pass
		16-QAM	RB12#0	21.44	1.1	22.54	0.179	2.00	Pass
		10 07 1111	RB12#6	21.45	1.1	22.55	0.180	2.00	Pass
			RB12#13	21.41	1.1	22.51	0.178	2.00	Pass
			RB25#0	21.34	1.1	22.44	0.175	2.00	Pass
			RB1#0	23.12	1.1	24.22	0.264	2.00	Pass
		QPSK	RB1#13	23.19	1.1	24.29	0.269	2.00	Pass
			RB1#24	23.08	1.1	24.18	0.262	2.00	Pass
			RB12#0	22.20	1.1	23.30	0.214	2.00	Pass
			RB12#6	22.11	1.1	23.21	0.209	2.00	Pass
5 MHz			RB12#13	22.12	1.1	23.22	0.210	2.00	Pass
			RB25#0	22.18	1.1	23.28	0.213	2.00	Pass
	MCH		RB1#0	22.46	1.1	23.56	0.227	2.00	Pass
			RB1#13	22.50	1.1	23.60	0.229	2.00	Pass
			RB1#24	22.44	1.1	23.54	0.226	2.00	Pass
		16-QAM	RB12#0	21.27	1.1	22.37	0.173	2.00	Pass
			RB12#6	21.41	1.1	22.51	0.178	2.00	Pass
			RB12#13	21.34	1.1	22.44	0.175	2.00	Pass
			RB25#0	21.25	1.1	22.35	0.172	2.00	Pass
			RB1#0	23.29	1.1	24.39	0.275	2.00	Pass
			RB1#13	23.27	1.1	24.37	0.274	2.00	Pass
			RB1#24	23.17	1.1	24.27	0.267	2.00	Pass
		QPSK	RB12#0	22.27	1.1	23.37	0.217	2.00	Pass
	LICH		RB12#6	22.40	1.1	23.50	0.224	2.00	Pass
	HCH		RB12#13	22.26	1.1	23.36	0.217	2.00	Pass
			RB25#0	22.24	1.1	23.34	0.216	2.00	Pass
			RB1#0	22.62	1.1	23.72	0.236	2.00	Pass
		16-QAM	RB1#13	22.69	1.1	23.79	0.239	2.00	Pass
			RB1#24	22.55	1.1	23.65	0.232	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
				TE BAND38					
			RB12#0	21.38	1.1	22.48	0.177	2.00	Pass
			RB12#6	21.48	1.1	22.58	0.181	2.00	Pass
			RB12#13	21.33	1.1	22.43	0.175	2.00	Pass
			RB25#0	21.45	1.1	22.55	0.180	2.00	Pass
			RB1#0	23.21	1.1	24.31	0.270	2.00	Pass
			RB1#25	23.11	1.1	24.21	0.264	2.00	Pass
			RB1#49	22.94	1.1	24.04	0.254	2.00	Pass
		QPSK	RB25#0	22.23	1.1	23.33	0.215	2.00	Pass
			RB25#13	22.24	1.1	23.34	0.216	2.00	Pass
			RB25#25	22.18	1.1	23.28	0.213	2.00	Pass
	LCH		RB50#0	22.20	1.1	23.30	0.214	2.00	Pass
	LON		RB1#0	22.58	1.1	23.68	0.233	2.00	Pass
			RB1#25	22.50	1.1	23.60	0.229	2.00	Pass
		16-QAM	RB1#49	22.32	1.1	23.42	0.220	2.00	Pass
			RB25#0	21.38	1.1	22.48	0.177	2.00	Pass
			RB25#13	21.34	1.1	22.44	0.175	2.00	Pass
			RB25#25	21.28	1.1	22.38	0.173	2.00	Pass
			RB50#0	21.30	1.1	22.40	0.174	2.00	Pass
			RB1#0	23.04	1.1	24.14	0.259	2.00	Pass
			RB1#25	23.13	1.1	24.23	0.265	2.00	Pass
			RB1#49	23.08	1.1	24.18	0.262	2.00	Pass
10 MHz		QPSK	RB25#0	22.14	1.1	23.24	0.211	2.00	Pass
			RB25#13	22.18	1.1	23.28	0.213	2.00	Pass
			RB25#25	22.18	1.1	23.28	0.213	2.00	Pass
	MCH		RB50#0	22.16	1.1	23.26	0.212	2.00	Pass
	Wiori		RB1#0	22.57	1.1	23.67	0.233	2.00	Pass
			RB1#25	22.68	1.1	23.78	0.239	2.00	Pass
			RB1#49	22.61	1.1	23.71	0.235	2.00	Pass
		16-QAM	RB25#0	21.31	1.1	22.41	0.174	2.00	Pass
			RB25#13	21.27	1.1	22.37	0.173	2.00	Pass
			RB25#25	21.27	1.1	22.37	0.173	2.00	Pass
			RB50#0	21.30	1.1	22.40	0.174	2.00	Pass
			RB1#0	23.28	1.1	24.38	0.274	2.00	Pass
			RB1#25	23.25	1.1	24.35	0.272	2.00	Pass
			RB1#49	23.19	1.1	24.29	0.269	2.00	Pass
	HCH	QPSK	RB25#0	22.26	1.1	23.36	0.217	2.00	Pass
			RB25#13	22.20	1.1	23.30	0.214	2.00	Pass
			RB25#25	22.29	1.1	23.39	0.218	2.00	Pass
			RB50#0	22.25	1.1	23.35	0.216	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			L	TE BAND38					
			RB1#0	22.71	1.1	23.81	0.240	2.00	Pass
			RB1#25	22.79	1.1	23.89	0.245	2.00	Pass
			RB1#49	22.69	1.1	23.79	0.239	2.00	Pass
		16-QAM	RB25#0	21.37	1.1	22.47	0.177	2.00	Pass
			RB25#13	21.37	1.1	22.47	0.177	2.00	Pass
			RB25#25	21.42	1.1	22.52	0.179	2.00	Pass
			RB50#0	21.39	1.1	22.49	0.177	2.00	Pass
			RB1#0	23.28	1.1	24.38	0.274	2.00	Pass
			RB1#38	22.98	1.1	24.08	0.256	2.00	Pass
			RB1#74	22.85	1.1	23.95	0.248	2.00	Pass
		QPSK	RB36#0	22.19	1.1	23.29	0.213	2.00	Pass
			RB36#19	22.13	1.1	23.23	0.210	2.00	Pass
			RB36#39	21.96	1.1	23.06	0.202	2.00	Pass
	LCH		RB75#0	22.14	1.1	23.24	0.211	2.00	Pass
	LCH		RB1#0	22.63	1.1	23.73	0.236	2.00	Pass
			RB1#38	22.38	1.1	23.48	0.223	2.00	Pass
			RB1#74	22.27	1.1	23.37	0.217	2.00	Pass
		16-QAM	RB36#0	21.35	1.1	22.45	0.176	2.00	Pass
			RB36#19	21.22	1.1	22.32	0.171	2.00	Pass
			RB36#39	21.07	1.1	22.17	0.165	2.00	Pass
			RB75#0	21.25	1.1	22.35	0.172	2.00	Pass
			RB1#0	23.08	1.1	24.18	0.262	2.00	Pass
15 MHz			RB1#38	23.11	1.1	24.21	0.264	2.00	Pass
13 1011 12			RB1#74	23.08	1.1	24.18	0.262	2.00	Pass
		QPSK	RB36#0	22.13	1.1	23.23	0.210	2.00	Pass
			RB36#19	22.10	1.1	23.20	0.209	2.00	Pass
			RB36#39	22.07	1.1	23.17	0.207	2.00	Pass
	MCH		RB75#0	22.16	1.1	23.26	0.212	2.00	Pass
	WIGHT		RB1#0	22.65	1.1	23.75	0.237	2.00	Pass
			RB1#38	22.66	1.1	23.76	0.238	2.00	Pass
			RB1#74	22.65	1.1	23.75	0.237	2.00	Pass
		16-QAM	RB36#0	21.23	1.1	22.33	0.171	2.00	Pass
			RB36#19	21.25	1.1	22.35	0.172	2.00	Pass
			RB36#39	21.18	1.1	22.28	0.169	2.00	Pass
			RB75#0	21.27	1.1	22.37	0.173	2.00	Pass
			RB1#0	23.33	1.1	24.43	0.277	2.00	Pass
	HCH	QPSK	RB1#38	23.19	1.1	24.29	0.269	2.00	Pass
	11511	QI OIX	RB1#74	23.19	1.1	24.29	0.269	2.00	Pass
			RB36#0	22.22	1.1	23.32	0.215	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			L	TE BAND38					
			RB36#19	22.21	1.1	23.31	0.214	2.00	Pass
			RB36#39	22.13	1.1	23.23	0.210	2.00	Pass
			RB75#0	22.16	1.1	23.26	0.212	2.00	Pass
			RB1#0	22.72	1.1	23.82	0.241	2.00	Pass
			RB1#38	22.57	1.1	23.67	0.233	2.00	Pass
			RB1#74	22.55	1.1	23.65	0.232	2.00	Pass
		16-QAM	RB36#0	21.39	1.1	22.49	0.177	2.00	Pass
			RB36#19	21.36	1.1	22.46	0.176	2.00	Pass
			RB36#39	21.27	1.1	22.37	0.173	2.00	Pass
			RB75#0	21.26	1.1	22.36	0.172	2.00	Pass
			RB1#0	23.35	1.1	24.45	0.279	2.00	Pass
			RB1#50	23.00	1.1	24.10	0.257	2.00	Pass
			RB1#99	22.95	1.1	24.05	0.254	2.00	Pass
		QPSK	RB50#0	22.27	1.1	23.37	0.217	2.00	Pass
			RB50#25	22.25	1.1	23.35	0.216	2.00	Pass
			RB50#50	22.01	1.1	23.11	0.205	2.00	Pass
	LCH		RB100#0	22.21	1.1	23.31	0.214	2.00	Pass
	LOIT		RB1#0	22.73	1.1	23.83	0.242	2.00	Pass
			RB1#50	22.41	1.1	23.51	0.224	2.00	Pass
			RB1#99	22.30	1.1	23.40	0.219	2.00	Pass
		16-QAM	RB50#0	21.36	1.1	22.46	0.176	2.00	Pass
			RB50#25	21.28	1.1	22.38	0.173	2.00	Pass
			RB50#50	21.10	1.1	22.20	0.166	2.00	Pass
			RB100#0	21.28	1.1	22.38	0.173	2.00	Pass
20 MHz			RB1#0	23.08	1.1	24.18	0.262	2.00	Pass
			RB1#50	23.10	1.1	24.20	0.263	2.00	Pass
			RB1#99	23.07	1.1	24.17	0.261	2.00	Pass
		QPSK	RB50#0	22.21	1.1	23.31	0.214	2.00	Pass
			RB50#25	22.20	1.1	23.30	0.214	2.00	Pass
			RB50#50	22.14	1.1	23.24	0.211	2.00	Pass
	MCH		RB100#0	22.19	1.1	23.29	0.213	2.00	Pass
			RB1#0	22.37	1.1	23.47	0.222	2.00	Pass
			RB1#50	22.38	1.1	23.48	0.223	2.00	Pass
			RB1#99	22.40	1.1	23.50	0.224	2.00	Pass
		16-QAM	RB50#0	21.32	1.1	22.42	0.175	2.00	Pass
			RB50#25	21.31	1.1	22.41	0.174	2.00	Pass
			RB50#50	21.26	1.1	22.36	0.172	2.00	Pass
			RB100#0	21.30	1.1	22.40	0.174	2.00	Pass
	HCH	QPSK	RB1#0	23.35	1.1	24.45	0.279	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			L	TE BAND38					
			RB1#50	23.22	1.1	24.32	0.270	2.00	Pass
			RB1#99	23.21	1.1	24.31	0.270	2.00	Pass
			RB50#0	22.28	1.1	23.38	0.218	2.00	Pass
			RB50#25	22.19	1.1	23.29	0.213	2.00	Pass
			RB50#50	22.16	1.1	23.26	0.212	2.00	Pass
			RB100#0	22.15	1.1	23.25	0.211	2.00	Pass
			RB1#0	22.80	1.1	23.90	0.245	2.00	Pass
			RB1#50	22.70	1.1	23.80	0.240	2.00	Pass
			RB1#99	22.68	1.1	23.78	0.239	2.00	Pass
		16-QAM	RB50#0	21.46	1.1	22.56	0.180	2.00	Pass
			RB50#25	21.44	1.1	22.54	0.179	2.00	Pass
			RB50#50	21.29	1.1	22.39	0.173	2.00	Pass
			RB100#0	21.34	1.1	22.44	0.175	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			L	TE BAND41					
			RB1#0	23.37	1.1	24.47	0.280	2.00	Pass
			RB1#13	23.41	1.1	24.51	0.282	2.00	Pass
			RB1#24	23.28	1.1	24.38	0.274	2.00	Pass
		QPSK	RB12#0	22.39	1.1	23.49	0.223	2.00	Pass
			RB12#6	22.47	1.1	23.57	0.228	2.00	Pass
			RB12#13	22.39	1.1	23.49	0.223	2.00	Pass
	LCH		RB25#0	22.33	1.1	23.43	0.220	2.00	Pass
	LON		RB1#0	22.68	1.1	23.78	0.239	2.00	Pass
			RB1#13	22.69	1.1	23.79	0.239	2.00	Pass
			RB1#24	22.61	1.1	23.71	0.235	2.00	Pass
		16-QAM	RB12#0	21.46	1.1	22.56	0.180	2.00	Pass
			RB12#6	21.50	1.1	22.60	0.182	2.00	Pass
			RB12#13	21.45	1.1	22.55	0.180	2.00	Pass
			RB25#0	21.44	1.1	22.54	0.179	2.00	Pass
			RB1#0	23.60	1.1	24.70	0.295	2.00	Pass
			RB1#13	23.60	1.1	24.70	0.295	2.00	Pass
			RB1#24	23.53	1.1	24.63	0.290	2.00	Pass
		QPSK	RB12#0	22.55	1.1	23.65	0.232	2.00	Pass
5 MHz			RB12#6	22.54	1.1	23.64	0.231	2.00	Pass
J WII IZ			RB12#13	22.51	1.1	23.61	0.230	2.00	Pass
	MCH		RB25#0	22.54	1.1	23.64	0.231	2.00	Pass
	IVICIT		RB1#0	22.98	1.1	24.08	0.256	2.00	Pass
			RB1#13	23.01	1.1	24.11	0.258	2.00	Pass
			RB1#24	22.95	1.1	24.05	0.254	2.00	Pass
		16-QAM	RB12#0	21.78	1.1	22.88	0.194	2.00	Pass
			RB12#6	21.81	1.1	22.91	0.195	2.00	Pass
			RB12#13	21.73	1.1	22.83	0.192	2.00	Pass
			RB25#0	21.62	1.1	22.72	0.187	2.00	Pass
			RB1#0	23.72	1.1	24.82	0.303	2.00	Pass
			RB1#13	23.69	1.1	24.79	0.301	2.00	Pass
			RB1#24	23.47	1.1	24.57	0.286	2.00	Pass
		QPSK	RB12#0	22.67	1.1	23.77	0.238	2.00	Pass
	HCH		RB12#6	22.61	1.1	23.71	0.235	2.00	Pass
	11011		RB12#13	22.61	1.1	23.71	0.235	2.00	Pass
			RB25#0	22.57	1.1	23.67	0.233	2.00	Pass
			RB1#0	23.06	1.1	24.16	0.261	2.00	Pass
		16-QAM	RB1#13	23.00	1.1	24.10	0.257	2.00	Pass
			RB1#24	22.78	1.1	23.88	0.244	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			L	TE BAND41					
			RB12#0	21.84	1.1	22.94	0.197	2.00	Pass
			RB12#6	21.74	1.1	22.84	0.192	2.00	Pass
			RB12#13	21.75	1.1	22.85	0.193	2.00	Pass
			RB25#0	21.65	1.1	22.75	0.188	2.00	Pass
			RB1#0	23.32	1.1	24.42	0.277	2.00	Pass
			RB1#25	23.26	1.1	24.36	0.273	2.00	Pass
			RB1#49	23.28	1.1	24.38	0.274	2.00	Pass
		QPSK	RB25#0	22.39	1.1	23.49	0.223	2.00	Pass
			RB25#13	22.38	1.1	23.48	0.223	2.00	Pass
			RB25#25	22.33	1.1	23.43	0.220	2.00	Pass
	LCH		RB50#0	22.36	1.1	23.46	0.222	2.00	Pass
	LON		RB1#0	22.63	1.1	23.73	0.236	2.00	Pass
			RB1#25	22.60	1.1	23.70	0.234	2.00	Pass
		16-QAM	RB1#49	22.61	1.1	23.71	0.235	2.00	Pass
			RB25#0	21.50	1.1	22.60	0.182	2.00	Pass
			RB25#13	21.48	1.1	22.58	0.181	2.00	Pass
			RB25#25	21.43	1.1	22.53	0.179	2.00	Pass
			RB50#0	21.46	1.1	22.56	0.180	2.00	Pass
			RB1#0	23.55	1.1	24.65	0.292	2.00	Pass
			RB1#25	23.50	1.1	24.60	0.288	2.00	Pass
			RB1#49	23.42	1.1	24.52	0.283	2.00	Pass
10 MHz		QPSK	RB25#0	22.57	1.1	23.67	0.233	2.00	Pass
			RB25#13	22.59	1.1	23.69	0.234	2.00	Pass
			RB25#25	22.51	1.1	23.61	0.230	2.00	Pass
	MCH		RB50#0	22.54	1.1	23.64	0.231	2.00	Pass
	WIOTT		RB1#0	23.05	1.1	24.15	0.260	2.00	Pass
			RB1#25	22.97	1.1	24.07	0.255	2.00	Pass
			RB1#49	22.91	1.1	24.01	0.252	2.00	Pass
		16-QAM	RB25#0	21.66	1.1	22.76	0.189	2.00	Pass
			RB25#13	21.66	1.1	22.76	0.189	2.00	Pass
			RB25#25	21.60	1.1	22.70	0.186	2.00	Pass
			RB50#0	21.64	1.1	22.74	0.188	2.00	Pass
			RB1#0	23.84	1.1	24.94	0.312	2.00	Pass
			RB1#25	23.77	1.1	24.87	0.307	2.00	Pass
			RB1#49	23.49	1.1	24.59	0.288	2.00	Pass
	HCH	QPSK	RB25#0	22.85	1.1	23.95	0.248	2.00	Pass
			RB25#13	22.71	1.1	23.81	0.240	2.00	Pass
			RB25#25	22.63	1.1	23.73	0.236	2.00	Pass
			RB50#0	22.68	1.1	23.78	0.239	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND41									
			RB1#0	23.24	1.1	24.34	0.272	2.00	Pass
			RB1#25	23.14	1.1	24.24	0.265	2.00	Pass
			RB1#49	22.89	1.1	23.99	0.251	2.00	Pass
		16-QAM	RB25#0	21.95	1.1	23.05	0.202	2.00	Pass
			RB25#13	21.85	1.1	22.95	0.197	2.00	Pass
			RB25#25	21.74	1.1	22.84	0.192	2.00	Pass
			RB50#0	21.78	1.1	22.88	0.194	2.00	Pass
			RB1#0	23.42	1.1	24.52	0.283	2.00	Pass
			RB1#38	23.30	1.1	24.40	0.275	2.00	Pass
			RB1#74	23.32	1.1	24.42	0.277	2.00	Pass
		QPSK	RB36#0	22.40	1.1	23.50	0.224	2.00	Pass
			RB36#19	22.38	1.1	23.48	0.223	2.00	Pass
			RB36#39	22.37	1.1	23.47	0.222	2.00	Pass
	LCH		RB75#0	22.41	1.1	23.51	0.224	2.00	Pass
			RB1#0	22.73	1.1	23.83	0.242	2.00	Pass
		16-QAM	RB1#38	22.66	1.1	23.76	0.238	2.00	Pass
			RB1#74	22.70	1.1	23.80	0.240	2.00	Pass
			RB36#0	21.48	1.1	22.58	0.181	2.00	Pass
			RB36#19	21.46	1.1	22.56	0.180	2.00	Pass
			RB36#39	21.44	1.1	22.54	0.179	2.00	Pass
			RB75#0	21.52	1.1	22.62	0.183	2.00	Pass
			RB1#0	23.61	1.1	24.71	0.296	2.00	Pass
15 MHz			RB1#38	23.48	1.1	24.58	0.287	2.00	Pass
13 MITZ			RB1#74	23.40	1.1	24.50	0.282	2.00	Pass
		QPSK	RB36#0	22.54	1.1	23.64	0.231	2.00	Pass
			RB36#19	22.56	1.1	23.66	0.232	2.00	Pass
			RB36#39	22.45	1.1	23.55	0.226	2.00	Pass
	MCH		RB75#0	22.48	1.1	23.58	0.228	2.00	Pass
	WOTT		RB1#0	23.09	1.1	24.19	0.262	2.00	Pass
			RB1#38	22.96	1.1	24.06	0.255	2.00	Pass
			RB1#74	22.90	1.1	24.00	0.251	2.00	Pass
		16-QAM	RB36#0	21.63	1.1	22.73	0.187	2.00	Pass
			RB36#19	21.61	1.1	22.71	0.187	2.00	Pass
			RB36#39	21.54	1.1	22.64	0.184	2.00	Pass
			RB75#0	21.60	1.1	22.70	0.186	2.00	Pass
			RB1#0	23.92	1.1	25.02	0.318	2.00	Pass
	HCH	QPSK	RB1#38	23.76	1.1	24.86	0.306	2.00	Pass
		Q. O.	RB1#74	23.44	1.1	24.54	0.284	2.00	Pass
			RB36#0	22.70	1.1	23.80	0.240	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND41									
			RB36#19	22.60	1.1	23.70	0.234	2.00	Pass
			RB36#39	22.52	1.1	23.62	0.230	2.00	Pass
			RB75#0	22.55	1.1	23.65	0.232	2.00	Pass
			RB1#0	23.14	1.1	24.24	0.265	2.00	Pass
			RB1#38	23.02	1.1	24.12	0.258	2.00	Pass
			RB1#74	22.71	1.1	23.81	0.240	2.00	Pass
		16-QAM	RB36#0	21.85	1.1	22.95	0.197	2.00	Pass
			RB36#19	21.71	1.1	22.81	0.191	2.00	Pass
			RB36#39	21.64	1.1	22.74	0.188	2.00	Pass
			RB75#0	21.68	1.1	22.78	0.190	2.00	Pass
			RB1#0	23.48	1.1	24.58	0.287	2.00	Pass
			RB1#50	23.37	1.1	24.47	0.280	2.00	Pass
			RB1#99	23.43	1.1	24.53	0.284	2.00	Pass
		QPSK	RB50#0	22.48	1.1	23.58	0.228	2.00	Pass
			RB50#25	22.46	1.1	23.56	0.227	2.00	Pass
			RB50#50	22.44	1.1	23.54	0.226	2.00	Pass
	1.011		RB100#0	22.47	1.1	23.57	0.228	2.00	Pass
	LCH		RB1#0	22.78	1.1	23.88	0.244	2.00	Pass
		16-QAM	RB1#50	22.70	1.1	23.80	0.240	2.00	Pass
			RB1#99	22.77	1.1	23.87	0.244	2.00	Pass
			RB50#0	21.50	1.1	22.60	0.182	2.00	Pass
			RB50#25	21.52	1.1	22.62	0.183	2.00	Pass
			RB50#50	21.51	1.1	22.61	0.182	2.00	Pass
			RB100#0	21.53	1.1	22.63	0.183	2.00	Pass
20 MHz			RB1#0	23.61	1.1	24.71	0.296	2.00	Pass
			RB1#50	23.49	1.1	24.59	0.288	2.00	Pass
			RB1#99	23.39	1.1	24.49	0.281	2.00	Pass
		QPSK	RB50#0	22.60	1.1	23.70	0.234	2.00	Pass
			RB50#25	22.57	1.1	23.67	0.233	2.00	Pass
			RB50#50	22.50	1.1	23.60	0.229	2.00	Pass
	MCH		RB100#0	22.54	1.1	23.64	0.231	2.00	Pass
	IVICH		RB1#0	22.85	1.1	23.95	0.248	2.00	Pass
			RB1#50	22.73	1.1	23.83	0.242	2.00	Pass
			RB1#99	22.69	1.1	23.79	0.239	2.00	Pass
		16-QAM	RB50#0	21.71	1.1	22.81	0.191	2.00	Pass
			RB50#25	21.66	1.1	22.76	0.189	2.00	Pass
			RB50#50	21.58	1.1	22.68	0.185	2.00	Pass
			RB100#0	21.67	1.1	22.77	0.189	2.00	Pass
	HCH	QPSK	RB1#0	23.86	1.1	24.96	0.313	2.00	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
			L	TE BAND41					
			RB1#50	23.74	1.1	24.84	0.305	2.00	Pass
			RB1#99	23.46	1.1	24.56	0.286	2.00	Pass
			RB50#0	22.78	1.1	23.88	0.244	2.00	Pass
			RB50#25	22.80	1.1	23.90	0.245	2.00	Pass
			RB50#50	22.62	1.1	23.72	0.236	2.00	Pass
			RB100#0	22.67	1.1	23.77	0.238	2.00	Pass
			RB1#0	23.27	1.1	24.37	0.274	2.00	Pass
			RB1#50	23.15	1.1	24.25	0.266	2.00	Pass
			RB1#99	22.92	1.1	24.02	0.252	2.00	Pass
		16-QAM	RB50#0	21.90	1.1	23.00	0.200	2.00	Pass
			RB50#25	21.87	1.1	22.97	0.198	2.00	Pass
			RB50#50	21.77	1.1	22.87	0.194	2.00	Pass
			RB100#0	21.76	1.1	22.86	0.193	2.00	Pass



A.2 Peak to Average Ratio

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

Note 2: Test plots please refer to the document "Annex No.: BL-SZ19A0595-501 Data Part 1.pdf".

WCDMA Mode Test Data

Test Band	Test Channel	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot ^{Note2}	Verdict
	LCH	3.22	13	1.1	Pass
Band 5	MCH	3.22	13	1.2	Pass
	HCH	3.01	13	1.3	Pass

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to	Verdict
			QPSK	RB1#0	3.54	13	2.1	Pass
		LCH	QPSK	RB50#0	4.32	13	2.2	Pass
		LCH	16-QAM	RB1#0	5.25	13	2.3	Pass
			16-QAIVI	RB50#0	5.54	13	2.4	Pass
			QPSK	RB1#0	3.28	13	2.5	Pass
LTE	10 MHz	MCH	Qi Oit	RB50#0	4.38	13	2.6	Pass
Band 5	IU IVITZ	IVICH	16-QAM	RB1#0	4.70	13	2.7	Pass
			16-QAIVI	RB50#0	5.65	13	2.8	Pass
			QPSK	RB1#0	3.48	13	2.9	Pass
		НСН	QPSK	RB50#0	4.26	13	2.10	Pass
			л 16-QAM	RB1#0	5.04	13	2.11	Pass
			16-QAIVI	RB50#0	5.51	13	2.12	Pass
			QPSK	RB1#0	3.19	13	3.1	Pass
		1.011	QPSK	RB100#0	4.29	13	3.2	Pass
		LCH	16-QAM	RB1#0	4.49	13	3.3	Pass
			10-QAM	RB100#0	5.51	13	3.4	Pass
			QPSK	RB1#0	3.42	13	3.5	Pass
LTE	20 MHz	MCH	QPSK	RB100#0	4.43	13	3.6	Pass
Band 7	ZU IVITZ	IVICH	16-QAM	RB1#0	5.04	13	3.7	Pass
			10-QAIVI	RB100#0	5.71	13	3.8	Pass
			QPSK	RB1#0	3.42	13	3.9	Pass
	Н	HCH	QPSK	RB100#0	4.38	13	3.10	Pass
		поп	16-QAM	RB1#0	5.07	13	3.11	Pass
			10-QAM	RB100#0	5.65	13	3.12	Pass
LTE	20 MHz	LCH	ODSK	RB1#0	7.45	13	4.1	Pass
Band 38	ZU IVITIZ	LCH	QPSK	RB100#0	8.61	13	4.2	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to	Verdict
			16-QAM	RB1#0	9.45	13	4.3	Pass
			10-QAIVI	RB100#0	9.97	13	4.4	Pass
			QPSK	RB1#0	7.97	13	4.5	Pass
		MCH	QPSK	RB100#0	8.35	13	4.6	Pass
		IVICH	16-QAM	RB1#0	9.28	13	4.7	Pass
			10-QAM	RB100#0	9.59	13	4.8	Pass
			QPSK	RB1#0	7.91	13	4.9	Pass
		ПСП	HCH GI SIK	RB100#0	8.52	13	4.10	Pass
		11011	16-QAM	RB1#0	9.68	13	4.11	Pass
			10-QAM	RB100#0	9.62	13	4.12	Pass
			QPSK	RB1#0	7.65	13	5.1	Pass
		LCH	·	RB100#0	8.38	13	5.2	Pass
		LON	16-QAM	RB1#0	9.25	13	5.3	Pass
			10-QAM	RB100#0	9.65	13	5.4	Pass
			QPSK	RB1#0	7.65	13	5.5	Pass
LTE	20 MHz	MCH	QFSK	RB100#0	8.23	13	5.6	Pass
Band 41	20 MINZ	IVICH	16-QAM	RB1#0	8.72	13	5.7	Pass
			10-QAIVI	RB100#0	9.36	13	5.8	Pass
			QPSK	RB1#0	7.86	13	5.9	Pass
		HCH	QF3N	RB100#0	8.00	13	5.10	Pass
		поп	16-QAM	RB1#0	9.01	13	5.11	Pass
			10-QAIVI	RB100#0	9.57	13	5.12	Pass



A.3 Occupied Bandwidth

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

Note 2: Test plots please refer to the document "Annex No.: BL-SZ19A0595-501 Data Part 2.pdf".

GSM and WCDMA Mode Test Data

Test Band	Test Channel	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to PlotNote2
	LCH	0.24	0.31	1.1
GSM 850	MCH	0.25	0.32	1.2
	HCH	0.24	0.31	1.3
	LCH	0.25	0.31	2.1
GSM 1900	MCH	0.24	0.30	2.2
	HCH	0.24	0.31	2.3
	LCH	0.25	0.30	3.1
EGPRS 850	MCH	0.25	0.31	3.2
	HCH	0.25	0.31	3.3
	LCH	0.24	0.31	4.1
EGPRS 1900	MCH	0.24	0.31	4.2
	HCH	0.24	0.31	4.3
	LCH	4.13	4.71	5.1
WCDMA Band 5	MCH	4.12	4.72	5.2
	HCH	4.13	4.72	5.3



LTE Mode Test Dat

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot ^{Note2}
		LCH	QPSK	RB6#0	1.08	1.24	6.1
		LOI	16-QAM			1.23	6.2
	1.4 MHz	MCH	QPSK	RB6#0	1.09	1.24	6.3
	1.4 IVIIIZ	IVICH	16-QAM	RB6#0	1.08	1.23	6.4
		HCH	QPSK	RB6#0	1.09	1.22	6.5
		ПСП	16-QAM	RB6#0	1.09	1.24	6.6
		LCH	QPSK	RB15#0	2.70	3.01	6.7
		LCH	16-QAM	RB15#0	2.70	2.99	6.8
	2 MU=	3 MHz MCH	QPSK	RB15#0	2.71	3.00	6.9
	3 IVITZ	IVICH	16-QAM	RB15#0	2.70	3.00	6.10
		HCH	QPSK	RB15#0	2.70	3.01	6.11
Band 5		ПСП	16-QAM	RB15#0	2.70	3.02	6.12
Dailu 5		LCH	QPSK	RB25#0	4.51	4.96	6.13
		LOH	16-QAM	RB25#0	4.49	4.97	6.14
	5 MHz	MCH	QPSK	RB25#0	4.50	4.97	6.15
	O IVITZ	MCL	16-QAM	RB25#0	4.51	4.98	6.16
		HCH	QPSK	RB25#0	4.49	4.95	6.17
		ПСП	16-QAM	RB25#0	4.51	4.98	6.18
		LCH	QPSK	RB50#0	8.97	9.86	6.19
		LOI	16-QAM	RB50#0	8.95	9.8	6.20
	10 MHz	MCH	QPSK	RB50#0	8.95	9.83	6.21
	I U IVIMZ	IVICH	16-QAM	RB50#0	8.96	9.82	6.22
			QPSK	RB50#0	8.96	9.80	6.23
		HCH	16-QAM	RB50#0	8.95	9.80	6.24



					Measured 99%	Measured -26	
Test	Test	Test	Test	Test RB	Occupied	dB Occupied	Refer to
Band	Bandwidth	Channel	Mode	(Size#Offset)	Bandwidth	Bandwidth	Plot ^{Note2}
					(MHz)	(MHz)	
		LCH	QPSK	RB25#0	4.51	4.97	7.1
		LCH	16-QAM	RB25#0	4.50	4.98	7.2
	5 MHz	MHz MCH	QPSK	RB25#0	4.50	4.98	7.3
	O IVITZ	IVICIT	16-QAM	RB25#0	4.51	4.96	7.4
		HCH	QPSK	RB25#0	4.50	4.94	7.5
		ПСП	16-QAM	RB25#0	4.51	4.99	7.6
		LCH	QPSK	RB50#0	8.97	9.84	7.7
		LON	16-QAM	RB50#0	8.96	9.77	7.8
	10 MHz	MCH	QPSK	RB50#0	8.95	9.86	7.9
	I U IVITZ	IVICIT	16-QAM	RB50#0	8.96	9.80	7.10
		HCH	QPSK	RB50#0	8.96	9.84	7.11
Band 7		ПОП	16-QAM	RB50#0	8.97	9.80	7.12
Dallu I		LCH	QPSK	RB75#0	13.43	14.80	7.13
		LOH	16-QAM	RB75#0	13.44	14.73	7.14
	15 MHz	MCH	QPSK	RB75#0	13.41	14.77	7.15
	13 IVITZ	MCL	16-QAM	RB75#0	13.45	14.69	7.16
		HCH	QPSK	RB75#0	13.41	14.74	7.17
		ПСП	16-QAM	RB75#0	13.44	14.64	7.18
		LCH	QPSK	RB100#0	17.89	19.40	7.19
		LCH	16-QAM	RB100#0	17.89	19.53	7.20
	20 MHz	MCH	QPSK	RB100#0	17.91	19.49	7.21
	ZU IVITZ	IVICH	16-QAM	RB100#0	17.91	19.53	7.22
		HCH	QPSK	RB100#0	17.92	19.55	7.23
		ПОП	16-QAM	RB100#0	17.91	19.45	7.24



					Measured 99%	Measured -26	
Test	Test	Test	Test	Test RB	Occupied	dB Occupied	Refer to
Band	Bandwidth	Channel	Mode	(Size#Offset)	Bandwidth	Bandwidth	Plot ^{Note2}
					(MHz)	(MHz)	
		LCH	QPSK	RB25#0	4.50	5.00	8.1
		LCI	16-QAM	RB25#0	4.51	4.97	8.2
	5 MHz	MCH	QPSK	RB25#0	4.51	4.95	8.3
	3 IVITZ	MCH	16-QAM	RB25#0	4.50	4.99	8.4
		НСН	QPSK	RB25#0	4.50	4.95	8.5
		поп	16-QAM	RB25#0	4.51	4.99	8.6
		LCH	QPSK	RB50#0	8.98	9.88	8.7
		LON	16-QAM	RB50#0	8.98	9.80	8.8
	10 MHz	MCH	QPSK	RB50#0 8.96		9.94	8.9
	TO WITZ	MCH	16-QAM	RB50#0	8.95	9.76	8.10
		НСН	QPSK	RB50#0	9.00	9.83	8.11
Band		псп	16-QAM	RB50#0	8.97	9.85	8.12
38		LCH	QPSK	RB75#0	13.47	14.74	8.13
		LCH	16-QAM	RB75#0	13.46	14.70	8.14
	15 MHz	MCH	QPSK	RB75#0	13.44	14.73	8.15
	13 IVITZ	MCL	16-QAM	RB75#0	13.50	14.76	8.16
		НСН	QPSK	RB75#0	13.40	14.71	8.17
		ПОП	16-QAM	RB75#0	13.49	14.77	8.18
		LCH	QPSK	RB100#0	17.94	19.42	8.19
		LCI	16-QAM	RB100#0	17.91	19.55	8.20
	20 MHz	MCH	QPSK	RB100#0	17.89	19.42	8.21
	ZU IVITZ	IVICH	16-QAM	RB100#0	17.89	19.52	8.22
		НСН	QPSK	RB100#0	17.91	19.55	8.23
		ПОП	16-QAM	RB100#0	17.90	19.49	8.24



					Measured 99%	Measured -26	
Test	Test	Test	Test	Test RB	Occupied	dB Occupied	Refer to
Band	Bandwidth	Channel	Mode	(Size#Offset)	Bandwidth	Bandwidth	Plot ^{Note2}
					(MHz)	(MHz)	
		LCH	QPSK	RB25#0	4.50	5.00	9.1
		LCH	16-QAM	RB25#0	4.50	4.98	9.2
	5 MHz	MCH	QPSK	RB25#0	4.51	4.95	9.3
	3 IVITZ	MCH	16-QAM	RB25#0	4.50	4.98	9.4
		НСН	QPSK	RB25#0	4.50	4.96	9.5
		11011	16-QAM	RB25#0	4.51	5.10	9.6
		LCH	QPSK	RB50#0	8.97	9.90	9.7
		LON	16-QAM	RB50#0	8.97	9.78	9.8
	10 MHz	MCH	QPSK	RB50#0	8.98	9.94 9.78	9.9
	TO WITZ	IVICIT	16-QAM	RB50#0	8.94	9.78	9.10
		НСН	QPSK	RB50#0	8.99	9.82	9.11
Band		псп	16-QAM	RB50#0	8.97	9.84	9.12
41		LCH	QPSK	RB75#0	13.45	14.70	9.13
		LCH	16-QAM	RB75#0	13.44	14.73	9.14
	15 MHz	MCH	QPSK	RB75#0	13.41	14.75	9.15
	13 IVITZ	MCL	16-QAM	RB75#0	13.49	14.76	9.16
		НСН	QPSK	RB75#0	13.38	14.72	9.17
		ПОП	16-QAM	RB75#0	13.47	14.73	9.18
		LCH	QPSK	RB100#0	17.91	19.37	9.19
		LCH	16-QAM	RB100#0	17.87	19.51	9.20
	20 MHz	MCH	QPSK	RB100#0	17.86	19.41	9.21
	ZU IVITZ	IVICH	16-QAM	RB100#0	17.90	19.51	9.22
		НСН	QPSK	RB100#0	17.91	19.55	9.23
		ПОП	16-QAM	RB100#0	17.87	19.49	9.24



A.4 Frequency Stability

<u>GSM 850</u>

Test	Conditions			Frequenc	y Deviation			
		L	.CH	M	ICH	ŀ	НСН	
Power	Temperature	824.2 MHz		836.6 MHz		848.8 MHz		Verdict
(VDC)	(°C)	Value	Limits	Value	Limits	Value	Limits	
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	
	-30	-2.03		6.01		7.04		
	-20	9.62		3.78		6.17		
	-10	6.59		7.78		1.97		
	0	4.88	_	7.72		14.01		
3.85	10	5.36		2.55		10.43		
3.00	20	9.40	±2060.5	2.10	±2091.5	7.36	±2122	Pass
	25	4.88		-2.52	12091.5	1.87	IZ IZZ	Pass
	30	8.65		4.26		13.24		
	40	6.04		6.68		13.43		
	50	8.68		3.62		10.59		
4.4	25	7.72		-1.81		9.62		
3.6	25	7.33		8.49		5.49		

GSM 1900

Test	Conditions							
		LCH		MCH		HCH		
Power	Temperature	1850	1850.2 MHz) MHz	1909.8 MHz		Verdict
(VDC)	(°C)	Value	Limits	Value	Limits	Value	Limits	
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	
	-30	17.72		-19.4		6.49		Pass
	-20	-5.59	±4625.5	-18.27	±4700.0	-15.43	±4774.5	
	-10	3.16		5.65		4.13		
	0	10.62		-7.1		6.55		
3.85	10	-4.46		3.45		4.13		
3.03	20	9.27		-7.78		4.49		
	25	9.88		-18.92		11.4		
	30	12.17		5.88		-7.04		
	40	9.72		-3.29		-11.91		
	50	14.59		-4.46		4.88		
4.4	25	7.33		3.91		12.82		
3.6	25	-14.21		-10.4		3.68		



<u>GPRS 850</u>

Test	Conditions							
		LCH		MCH		HCH		
Power	Temperature	824.2 MHz		836.6 MHz		848.8 MHz		Verdict
(VDC)	(°C)	Value	Limits	Value	Limits	Value	Limits	
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	
	-30	14.24		15.17		14.98		Pass
	-20	15.53		14.66	±2091.5	12.56	±2122	
	-10	19.47	±2060.5	16.05		15.76		
	0	14.88		17.27		13.62		
3.85	10	14.21		17.14		12.56		
3.00	20	13.66		14.17		19.47		
	25	19.98		21.11		14.46		
	30	20.99		18.98		13.33		
	40	13.95		19.69		14.85		
	50	18.89		17.27		10.98		
4.4	25	17.63		20.11		18.27		
3.6	25	22.47		19.11		21.08		

GPRS 1900

Test	Conditions							
		LCH		MCH		HCH		
Power	Power Temperature		1850.2 MHz		1880 MHz		1909.8 MHz	
(VDC)	(°C)	Value	Limits	Value	Limits	Value	Limits	
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	
	-30	17.92		23.99		22.96		Pass
	-20	25.51	±4625.5	25.44	±4700.0	10.3	±4774.5	
	-10	15.85		19.57		5.78		
	0	17.66		19.66		11.3		
3.85	10	22.73		15.4		16.53		
3.00	20	16.37		25.12		18.27		
	25	22.08		31.03		9.17		
	30	21.92		12.75		7.07		
	40	17.18		28.15		18.21		
	50	10.17		20.44		14.24		
4.4	25	19.05		12.49		4		
3.6	25	22.21		27.89		19.5		



EGPRS 850

Test Conditions								
		LCH		MCH		HCH		
Power	Temperature	824.2 MHz		836.6 MHz		848.8 MHz		Verdict
(VDC)	(°C)	Value	Limits	Value	Limits	Value	Limits	
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	
	-30	23.6		23.76		24.02		Pass
	-20	27.35	±2060.5	24.41	±2091.5	22.41	±2122	
	-10	26.73		21.57		20.18		
	0	19.79		28.12		20.21		
2.05	10	25.57		23.67		14.5		
3.85	20	23.28		28.7		22.86		
	25	30.03		29.51		16.18		
	30	29.12		28.25		24.05		
	40	25.99		26.93		29.02		
	50	21.11		21.6		24.12		
4.4	25	24.21		23.15		18.37		
3.6	25	19.76		23.99		24.31		

EGPRS 1900

Test	Conditions							
		LCH		MCH		HCH		
Power	Temperature	1850	1850.2 MHz		0 MHz	1909.8 MHz		Verdict
(VDC)	(°C)	Value	Limits	Value	Limits	Value	Limits	
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	
	-30	15.66		20.73		13.92		Pass
	-20	21.08		10.62	±4700.0	-4.29	±4774.5	
	-10	12.88		22.47		16.34		
	0	17.27		27.51		9.33		
3.85	10	12.72		15.08		19.5		
3.00	20	25.96		23.15		19.11		
	25	30.83	±4625.5	14.33		20.02		
	30	20.28		22.96		10.85		
	40	26.02		27.73		15.66		
	50	30.19	-	14.14		11.53		
4.4	25	27.02		29.12		-14.85		
3.6	25	26.89		20.37		-6.84		



WCDMA Band B5

Test	Conditions							
		LCH		MCH		HCH		
Power	Temperature	826.	826.4 MHz		4 MHz	846.6 MHz		Verdict
(VDC)	(°C)	Value	Limits	Value	Limits	Value	Limits	
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	
	-30	-0.04		-1.38		-1.81		Pass
	-20	-0.63		-1.46	±2091	-1.33	±2116.5	
	-10	-0.8	±2066	-1.64		-1.46		
	0	-0.97		-1.8		-1.52		
3.85	10	-0.95		-1.93		-0.97		
3.00	20	-1.37		-1.65		-0.98		
	25	-0.86		-1.92		-1.28		
	30	-1.02		-1.45		-1.54		
	40	-1.45		-2.2		-1.61		
	50	-0.97		-1.65		-1.02		
4.4	25	-1.63		-1.93		-0.87		
3.6	25	-1.18		-1.6		-1.42		



LTE Band 5 QPSK 10 MHz

Te	st Conditions	Frequen			
		N			
Power (VDC)	Temperature (°C)	836	.5 MHz	Verdict	
1 Owel (VDC)		Value	Limits (Hz)		
		(Hz)	Lilling (112)		
	-30	-1.03			
	-20	-5.94		Pass	
	-10	-5.71			
	0	-6.79	12004.25		
2.05	10	-2.2			
3.85	20	-4.22			
	25	-8.71	±2091.25		
	30	-5.56			
	40	-9.16			
	50	-6.04			
4.4	25	-7.88			
3.6	25	-8.47			

LTE Band 5 16QAM 10 MHz

Te	st Conditions	Frequen			
		N			
Power (VDC)	Temperature (°C)	836	5.5 MHz	Verdict	
1 owel (VDC)	remperature (0)	Value	Limits (Hz)		
		(Hz)			
	-30	0.13			
	-20	-5.95		Pass	
	-10	-6.12			
	0	-6.91			
3.85	10	-2.29	±2091.25		
3.00	20	-6.19			
	25	-3.52	12091.25		
	30	-9.41			
	40	-4.71			
	50	-7.78			
4.4	25	-1.5			
3.6	25	-3.45			



LTE Band 7 QPSK 10 MHz

Test Conditions		Frequency Deviation		
			MCH	
Power (VDC)	Temperature (°C)	253	B5 MHz	Verdict
1 owel (VDO)		Value	Limits (Hz)	
		(Hz)	Lilling (112)	
	-30	-2.82		
	-20	-3.91		Pass
	-10	5.78		
	0	-2.06	.0007.5	
3.85	10	-5.49		
3.00	20	-7.61		
	25	-6.07	±6337.5	
	30	6.28		
	40	-7.44		
	50	5.69		
4.4	25	4.72		
3.6	25	1.8		

LTE Band 7 16-QAM 10 MHz

Test Conditions		Frequency Deviation		
			MCH 2535 MHz	
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)	
	-30	2.92		
	-20	4.92		
	-10	-7.37		Pass
	0	1.9		
3.85	10	2.9		
	20	-0.63	±6337.5	
	25	5.39	±0337.3	
	30	-4.99		
	40	-2.26		
	50	3.86		
4.4	25	-0.06		
3.6	25	-5.14		



LTE Band 38 QPSK 10 MHz

Test Conditions		Frequen	Frequency Deviation	
Devices (V/DC)	Towns and the (°C)		MCH 2595 MHz	
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)	
	-30	-3.25		
	-20	-6.39		Pass
	-10	-11.37		
	0	-3.99		
3.85	10	-3.33		
3.65	20	-9.11	±6487.5	
	25	-8.35	10407.3	
	30	-6.81		
	40	3.59		
	50	-6.55		
4.4	25	-0.97		
3.6	25	0.44		

LTE Band 38 16-QAM 10 MHz

Test Conditions		Frequency Deviation			
			MCH 2595 MHz		
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)		
	-30	-3.1			
	-20	-3.72		Pass	
	-10	-7.37			
	0	-5.16			
3.85	10	4.56			
3.65	20	-5.55	±6487.5		
	25	-2.75	10407.3		
	30	-1.06			
	40	4.53			
	50	-0.99			
4.4	25	-4.43			
3.6	25	-9.14			



TE Band 41 QPSK 10 MHz

Test Conditions		Frequency Deviation			
		N	MCH		
Power (VDC)	Temperature (°C)	2607	7.5 MHz	Verdict	
Powel (VDC)	remperature (C)	Value	Limits (Hz)		
		(Hz)	Lillius (112)		
	-30	-8.67			
	-20	-5.75		Pass	
	-10	-10.57			
	0	-5.19			
2.05	10	-4.98			
3.85	20	-10.2	LGE 10.75		
	25	-3.69	±6518.75		
	30	-11.9			
	40	-5.61			
	50	0.59			
4.4	25	-13.6			
3.6	25	-12.85			

LTE Band 41 16-QAM 10 MHz

Test Conditions		Frequency Deviation		
D (1/D 0)			MCH 2607.5 MHz	
Power (VDC)	Temperature (°C)	Value (Hz)	Limits (Hz)	
	-30	-2.8		
	-20	-4.41		Pass
	-10	-11.23		
	0	-5.75		
3.85	10	-5.22		
3.65	20	-8.97	±6518.75	
	25	-3.13	10010.70	
	30	-10.69		
	40	-7.21		
	50	0.59		
4.4	25	-0.49		
3.6	25	-0.74		



A.5 Spurious Emission at Antenna Terminals

- Note 1: GSM and EGPRS modes have been verified, and only the worst data with different bandwidth for LTE are shown here.
- Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are UE carrier frequency.
- Note 3: Test plots please refer to the document "Annex No.: BL-SZ19A0595-501 Data Part 3.pdf".

Test Band	Test Channel	Refer to Plot ^{Note3}	Verdict
	LCH	1.1	Pass
GSM 850	MCH	1.2	Pass
	HCH	1.3	Pass
	LCH	2.1	Pass
GSM 1900	MCH	2.2	Pass
	HCH	2.3	Pass
	LCH	3.1	Pass
EGPRS 850	MCH	3.2	Pass
	HCH	3.3	Pass
	LCH	4.1	Pass
EGPRS 1900	MCH	4.2	Pass
	HCH	4.3	Pass
	LCH	5.1	Pass
WCDMA Band 5	MCH	5.2	Pass
	HCH	5.3	Pass



Test	Test	Test	Test	Test RB	Refer to	Verdict
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note3}	Volunt
		LCH	QPSK	RB1#0	6.1	Pass
			16-QAM	RB1#0	6.2	Pass
	1.4 MHz	MCH	QPSK	RB1#0	6.3	Pass
	1.4 IVITZ	IVICIT	16-QAM	RB1#0	6.4	Pass
		HCH	QPSK	RB1#0	6.5	Pass
		пСп	16-QAM	RB1#0	6.6	Pass
		LCH	QPSK	RB1#0	6.7	Pass
		LCH	16-QAM	RB1#0	6.8	Pass
	3 MHz	MCH	QPSK	RB1#0	6.9	Pass
	3 IVITZ	MCU	16-QAM	RB1#0	6.10	Pass
		НСН	QPSK	RB1#0	6.11	Pass
Band 5			16-QAM	RB1#0	6.12	Pass
Danu 3		LCH	QPSK	RB1#0	6.13	Pass
			16-QAM	RB1#0	6.14	Pass
	5 MHz	MCII	QPSK	RB1#0	6.15	Pass
	S IVITZ	MHz MCH	16-QAM	RB1#0	6.16	Pass
		HCH	QPSK	RB1#0	6.17	Pass
		пСп	16-QAM	RB1#0	6.18	Pass
		LCH	QPSK	RB1#0	6.19	Pass
		LCH	16-QAM	RB1#0	6.20	Pass
	10 MHz	MCH	QPSK	RB1#0	6.21	Pass
	IU IVITZ	IVICH	16-QAM	RB1#0	6.22	Pass
		ПСП	QPSK	RB1#0	6.23	Pass
		HCH	16-QAM	RB1#0	6.24	Pass



Test	Test	Test	Test	Test RB	Refer to	Verdict	
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note3}		
		LCH	QPSK	RB1#0	7.1	Pass	
			16-QAM	RB1#0	7.2	Pass	
	5 MHz	MCH	QPSK	RB1#0	7.3	Pass	
	J WII IZ	IVIOIT	16-QAM	RB1#0	7.4	Pass	
		НСН	QPSK	RB1#0	7.5	Pass	
		ПСП	16-QAM	RB1#0	7.6	Pass	
		LCH	QPSK	RB1#0	7.7	Pass	
		LCH	16-QAM	RB1#0	7.8	Pass	
	40 MH	MOLL	QPSK	RB1#0	7.9	Pass	
10 MF	10 MHz	MCH	16-QAM	RB1#0	7.10	Pass	
		НСН	QPSK	RB1#0	7.11	Pass	
Dand 7			16-QAM	RB1#0	7.12	Pass	
Band 7		LCH	QPSK	RB1#0	7.13	Pass	
			16-QAM	RB1#0	7.14	Pass	
	45 MH	MOLL	QPSK	RB1#0	7.15	Pass	
	15 MHz	MCH	16-QAM	RB1#0	7.16	Pass	
		11011	QPSK	RB1#0	7.17	Pass	
		HCH	16-QAM	RB1#0	7.18	Pass	
		1.011	QPSK	RB1#0	7.19	Pass	
		LCH	16-QAM	RB1#0	7.20	Pass	
	00.8411	MC	QPSK	RB1#0	7.21	Pass	
	20 MHz	MCH	16-QAM	RB1#0	7.22	Pass	
		11011	QPSK	RB1#0	7.23	Pass	
			HCH	16-QAM	RB1#0	7.24	Pass



Test	Test	Test	Test	Test RB	Refer to	Verdict
Band	Bandwidth	Channel	Mode	(Size#Offset)	1 100	
		LCH	QPSK	RB1#0	8.1	Pass
			16-QAM	RB1#0	8.2	Pass
	5 MHz	MCH	QPSK	RB1#0	8.3	Pass
	3 1411 12	WIOTT	16-QAM	RB1#0	8.4	Pass
		HCH	QPSK	RB1#0	8.5	Pass
		ПСП	16-QAM	RB1#0	8.6	Pass
		1 (11	QPSK	RB1#0	8.7	Pass
		LCH	16-QAM	RB1#0	8.8	Pass
	40 MH	MCII	QPSK	RB1#0	8.9	Pass
	10 MHz	MCH	16-QAM	RB1#0	8.10	Pass
		HCH	QPSK	RB1#0	8.11	Pass
D = == 1 00			16-QAM	RB1#0	8.12	Pass
Band 38		LCH	QPSK	RB1#0	8.13	Pass
			16-QAM	RB1#0	8.14	Pass
	45 MH	MOLL	QPSK	RB1#0	8.15	Pass
	15 MHz	MCH	16-QAM	RB1#0	8.16	Pass
		11011	QPSK	RB1#0	8.17	Pass
		HCH	16-QAM	RB1#0	8.18	Pass
		1.011	QPSK	RB1#0	8.19	Pass
		LCH	16-QAM	RB1#0	8.20	Pass
	00 1411	MOLL	QPSK	RB1#0	8.21	Pass
	20 MHz	MCH	16-QAM	RB1#0	8.22	Pass
		LICLI	QPSK	RB1#0	8.23	Pass
		HCH	16-QAM	RB1#0	8.24	Pass



Test	Test	Test	Test	Test RB	Refer to	Verdict
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note3}	verdict
		LCH	QPSK	RB1#0	9.1	Pass
		LCH	16-QAM	RB1#0	9.2	Pass
	5 NALI-	MCII	QPSK	RB1#0	9.3	Pass
	5 MHz	MCH	16-QAM	RB1#0	9.4	Pass
		НСН	QPSK	RB1#0	9.5	Pass
		псп	16-QAM	RB1#0	9.6	Pass
		LCH	QPSK	RB1#0	9.7	Pass
		LCH	16-QAM	RB1#0	9.8	Pass
	10 MHz	MCH	QPSK	RB1#0	9.9	Pass
	IO WINZ	MCH	16-QAM	RB1#0	9.10	Pass
		НСН	QPSK	RB1#0	9.11	Pass
Band 41			16-QAM	RB1#0	9.12	Pass
Dallu 4 I		LCH	QPSK	RB1#0	9.13	Pass
			16-QAM	RB1#0	9.14	Pass
	15 MHz	MCH	QPSK	RB1#0	9.15	Pass
	15 MITZ	IVICH	16-QAM	RB1#0	9.16	Pass
		HCH	QPSK	RB1#0	9.17	Pass
		ПОП	16-QAM	RB1#0	9.18	Pass
		LCH	QPSK	RB1#0	9.19	Pass
		LCH	16-QAM	RB1#0	9.20	Pass
	20 MHz	MCH	QPSK	RB1#0	9.21	Pass
	ZU IVITZ	IVICT	16-QAM	RB1#0	9.22	Pass
		HCH	QPSK	RB1#0	9.23	Pass
		поп	16-QAM	RB1#0	9.24	Pass



A.6 Band Edge

Note 1: Test plots please refer to the document "Annex No.: BL-SZ19A0595-501 Data Part 4.pdf".

Test Band	Test Channel	Refer to Plot ^{Note1}	Verdict
GSM 850	LCH	1.1	Pass
GSIVI 000	HCH	1.2	Pass
GSM 1900	LCH	2.1	Pass
	HCH	2.2	Pass
EGPRS 850	LCH	3.1	Pass
EGPRS 000	HCH	3.2	Pass
FCDDC 4000	LCH	4.1	Pass
EGPRS 1900	HCH	4.2	Pass
WCDMA Band 5	LCH	5.1	Pass
MCDINIA Band 5	HCH	5.2	Pass



Test	Test	Test	Test	Test RB	Refer to	Verdict
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note1}	verdict
			QPSK	RB1#0	6.1	Pass
		LCH		RB6#0	6.2	Pass
		LCH	16 OAM	RB1#0	6.3	Pass
	1 4 MII-		16-QAM	RB6#0	6.4	Pass
	1.4 MHz		ODCK	RB1#5	6.5	Pass
		ПСП	QPSK	RB6#0	6.6	Pass
		HCH	16 OAM	RB1#5	6.7	Pass
			16-QAM	RB6#0	6.8	Pass
			ODCK	RB1#0	6.9	Pass
		LCH	QPSK	RB15#0	6.10	Pass
		LCH	40 0 4 14	RB1#0	6.11	Pass
	3 MHz		16-QAM	RB15#0	6.12	Pass
		НСН	QPSK	RB1#14	6.13	Pass
				RB15#0	6.14	Pass
			16-QAM	RB1#14	6.15	Pass
Dand F				RB15#0	6.16	Pass
Band 5	5 MHz	LCH	QPSK	RB1#0	6.17	Pass
				RB25#0	6.18	Pass
			16-QAM	RB1#0	6.19	Pass
				RB25#0	6.20	Pass
			QPSK	RB1#24	6.21	Pass
				RB25#0	6.22	Pass
			16 OAM	RB1#24	6.23	Pass
			16-QAM	RB25#0	6.24	Pass
			QPSK	RB1#0	6.25	Pass
		LCH	QFSK	RB50#0	6.26	Pass
			16-QAM	RB1#0	6.27	Pass
	10 MHz		10-QAIVI	RB50#0	6.28	Pass
	IU IVIMZ		OBSK	RB1#49	6.29	Pass
		НСН	QPSK	RB50#0	6.30	Pass
			16-QAM	RB1#49	6.31	Pass
				RB50#0	6.32	Pass



Test	Test	Test	Test	Test RB	Refer to	Modellat
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note1}	Verdict
			0.7014	RB1#0	7.1	Pass
		1.011	QPSK	RB25#0	7.2	Pass
		LCH	40.0414	RB1#0	7.3	Pass
	- NALI-		16-QAM	RB25#0	7.4	Pass
	5 MHz		ODCK	RB1#24	7.5	Pass
		HCH	QPSK	RB25#0	7.6	Pass
		пСп	16-QAM	RB1#24	7.7	Pass
			10-QAIVI	RB25#0	7.8	Pass
			QPSK	RB1#0	7.9	Pass
		LCH	QPSK	RB50#0	7.10	Pass
		LCH	16-QAM	RB1#0	7.11	Pass
	10 MHz		10-QAIVI	RB50#0	7.12	Pass
		НСН	QPSK	RB1#49	7.13	Pass
				RB50#0	7.14	Pass
			16-QAM	RB1#49	7.15	Pass
Band 7				RB50#0	7.16	Pass
Dana 7		LCH	QPSK	RB1#0	7.17	Pass
				RB75#0	7.18	Pass
			16-QAM	RB1#0	7.19	Pass
	15 MHz			RB75#0	7.20	Pass
	13 IVII IZ		QPSK	RB1#74	7.21	Pass
		HCH		RB75#0	7.22	Pass
		ПОП	16-QAM	RB1#74	7.23	Pass
			TO-QAIVI	RB75#0	7.24	Pass
			QPSK	RB1#0	7.25	Pass
		LCH	QI OIL	RB100#0	7.26	Pass
		LOH	16-QAM	RB1#0	7.27	Pass
	20 MHz		10 QAW	RB100#0	7.28	Pass
	ZU IVIMZ		QPSK	RB1#99	7.29	Pass
		HCH		RB100#0	7.30	Pass
		11011	16-QAM	RB1#99	7.31	Pass
				RB100#0	7.32	Pass



Test	Test	Test	Test	Test RB	Refer to) / a mali a t
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note1}	Verdict
			QPSK	RB1#0	8.1	Pass
		1.011		RB25#0	8.2	Pass
		LCH	40.0414	RB1#0	8.3	Pass
	_ NALI_		16-QAM	RB25#0	8.4	Pass
	5 MHz		ODCK	RB1#24	8.5	Pass
		ПСП	QPSK	RB25#0	8.6	Pass
		HCH	16 OAM	RB1#24	8.7	Pass
			16-QAM	RB25#0	8.8	Pass
			ODCK	RB1#0	8.9	Pass
		LCH	QPSK	RB50#0	8.10	Pass
		LCH	16 OAM	RB1#0	8.11	Pass
	10 MHz		16-QAM	RB50#0	8.12	Pass
		НСН	QPSK	RB1#49	8.13	Pass
				RB50#0	8.14	Pass
			16-QAM	RB1#49	8.15	Pass
Band				RB50#0	8.16	Pass
38	15 MHz	LCH	QPSK	RB1#0	8.17	Pass
				RB75#0	8.18	Pass
			16-QAM	RB1#0	8.19	Pass
				RB75#0	8.20	Pass
	13 MITZ		QPSK	RB1#74	8.21	Pass
				RB75#0	8.22	Pass
			16-QAM	RB1#74	8.23	Pass
			10-QAW	RB75#0	8.24	Pass
			QPSK	RB1#0	8.25	Pass
		LCH	Qi Si	RB100#0	8.26	Pass
		LOIT	16-QAM	RB1#0	8.27	Pass
	20 MHz		IO-QAIVI	RB100#0	8.28	Pass
	ZU IVII IZ		QPSK	RB1#99	8.29	Pass
		нСп		RB100#0	8.30	Pass
		HCH	16-QAM	RB1#99	8.31	Pass
				RB100#0	8.32	Pass



Test	Test	Test	Test	Test RB	Refer to) / a mali a t
Band	Bandwidth	Channel	Mode	(Size#Offset)	Plot ^{Note1}	Verdict
			O DOL	RB1#0	9.1	Pass
		1.011	QPSK	RB25#0	9.2	Pass
		LCH	40.0004	RB1#0	9.3	Pass
	E MI I-		16-QAM	RB25#0	9.4	Pass
	5 MHz		QPSK	RB1#24	9.5	Pass
		HCH	QPSK	RB25#0	9.6	Pass
		ПСП	16-QAM	RB1#24	9.7	Pass
			10-QAW	RB25#0	9.8	Pass
			QPSK	RB1#0	9.9	Pass
		LCH	QFSK	RB50#0	9.10	Pass
		LOIT	16-QAM	RB1#0	9.11	Pass
	10 MHz		10-QAW	RB50#0	9.12	Pass
		НСН	QPSK	RB1#49	9.13	Pass
				RB50#0	9.14	Pass
			16-QAM	RB1#49	9.15	Pass
Band				RB50#0	9.16	Pass
41	15 MHz	LCH	QPSK	RB1#0	9.17	Pass
				RB75#0	9.18	Pass
			16-QAM	RB1#0	9.19	Pass
				RB75#0	9.20	Pass
	10 1011 12		QPSK	RB1#74	9.21	Pass
				RB75#0	9.22	Pass
			16-QAM	RB1#74	9.23	Pass
			IU-QAIVI	RB75#0	9.24	Pass
			QPSK	RB1#0	9.25	Pass
		LCH	W CON	RB100#0	9.26	Pass
		LOTT	16-QAM	RB1#0	9.27	Pass
	20 MHz		IU-QAIVI	RB100#0	9.28	Pass
	20 1011 12		QPSK	RB1#99	9.29	Pass
		HCH		RB100#0	9.30	Pass
		ПОП	16-QAM	RB1#99	9.31	Pass
				RB100#0	9.32	Pass



A.7 Field Strength of Spurious Radiation

- Note 1: GSM and EGPRS modes have been verified, only the worst data with different transmit bandwidth for LTE are shown here.
- Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are UE carrier frequency.
- Note 3: Test plots please refer to the document "Annex No.: BL-SZ19A0595-501 Data Part 5.pdf".

ANT0

Test Band	Test Channel	Refer to Plot ^{Note3}	Verdict
	LCH	1.1	Pass
GSM 850	MCH	1.2	Pass
	HCH	1.3	Pass
	LCH	2.1	Pass
GSM 1900	MCH	2.2	Pass
	HCH	2.3	Pass
	LCH	3.1	Pass
EGPRS 850	MCH	3.2	Pass
	HCH	3.3	Pass
	LCH	4.1	Pass
EGPRS 1900	MCH	4.2	Pass
	HCH	4.3	Pass
	LCH	5.1	Pass
WCDMA Band 5	MCH	5.2	Pass
	HCH	5.3	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
	1.4 MHz	MCH	QPSK	RB1#0	6.1	Pass
Band 5	3 MHz	MCH	QPSK	RB1#0	6.2	Pass
Band 5	5 MHz	MCH	QPSK	RB1#0	6.3	Pass
	10 MHz	MCH	QPSK	RB1#0	6.4	Pass
	5 MHz	MCH	QPSK	RB1#0	7.1	Pass
Dond 7	10 MHz	MCH	QPSK	RB1#0	7.2	Pass
Band 7	15 MHz	MCH	QPSK	RB1#0	7.3	Pass
	20 MHz	MCH	QPSK	RB1#0	7.4	Pass
	5 MHz	MCH	QPSK	RB1#0	8.1	Pass
Dand 20	10 MHz	MCH	QPSK	RB1#0	8.2	Pass
Band 38	15 MHz	MCH	QPSK	RB1#0	8.3	Pass
	20 MHz	MCH	QPSK	RB1#0	8.4	Pass
	5 MHz	MCH	QPSK	RB1#0	9.1	Pass
Band 41	10 MHz	MCH	QPSK	RB1#0	9.2	Pass
	15 MHz	MCH	QPSK	RB1#0	9.3	Pass
	20 MHz	MCH	QPSK	RB1#0	9.4	Pass



ANT1

Test Band	Test Channel	Refer to Plot ^{Note3}	Verdict
	LCH	10.1	Pass
GSM 850	MCH	10.2	Pass
	HCH	10.3	Pass
	LCH	11.1	Pass
GSM 1900	MCH	11.2	Pass
	HCH	11.3	Pass
	LCH	12.1	Pass
EGPRS 850	MCH	12.2	Pass
	HCH	12.3	Pass
	LCH	13.1	Pass
EGPRS 1900	MCH	13.2	Pass
	HCH	13.3	Pass
	LCH	14.1	Pass
WCDMA Band 5	MCH	14.2	Pass
	HCH	14.3	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot ^{Note3}	Verdict
	1.4 MHz	MCH	QPSK	RB1#0	15.1	Pass
Dond F	3 MHz	MCH	QPSK	RB1#0	15.2	Pass
Band 5	5 MHz	MCH	QPSK	RB1#0	15.3	Pass
	10 MHz	MCH	QPSK	RB1#0	15.4	Pass
	5 MHz	MCH	QPSK	RB1#0	16.1	Pass
Dond 7	10 MHz	MCH	QPSK	RB1#0	16.2	Pass
Band 7	15 MHz	MCH	QPSK	RB1#0	16.3	Pass
	20 MHz	MCH	QPSK	RB1#0	16.4	Pass
	5 MHz	MCH	QPSK	RB1#0	17.1	Pass
Dand 20	10 MHz	MCH	QPSK	RB1#0	17.2	Pass
Band 38	15 MHz	MCH	QPSK	RB1#0	17.3	Pass
	20 MHz	MCH	QPSK	RB1#0	17.4	Pass
	5 MHz	MCH	QPSK	RB1#0	18.1	Pass
Band 41	10 MHz	MCH	QPSK	RB1#0	18.2	Pass
	15 MHz	MCH	QPSK	RB1#0	18.3	Pass
	20 MHz	MCH	QPSK	RB1#0	18.4	Pass



ANNEX B TEST SETUP PHOTOS

Please refer to the document "BL-SZ19A0595-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document "BL-SZ19A0595-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer to the document "BL-SZ19A0595-AI.PDF".

--END OF REPORT--