

Address:

RF Test Report

For

Applicant Name: Shenzhen Kenxinda Technology Co., Ltd.

5 Floors, Shenzhen Bay Science and Technology Park, Nanshan

District, Shenzhen, China

EUT Name: Mobile phone

Brand Name: KXD, EL意龍, E&L意龍

Model Number: A11 Series Model Number: 13C

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,

Address: Tantou Community, Songgang Street, Bao'an District, Shenzhen,

China

Report Number: BTF240202R00706

FCC CFR Title 47 Part 2

FCC CFR Title 47 Part22

Test Standards: FCC CFR Title 47 Part24

FCC CFR Title 47 Part27 FCC CFR Title 47 Part90

FCC ID: 2BEC4-A11

Test Conclusion: Pass

Test Date: 2024-07-01 to 2024-08-05

Date of Issue: 2024-08-07

Test by:

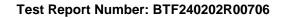
Ssxx.guo / Tester

Prepared by:

Chris Liu/Project engineer

Ryan.CJ /EMC manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.





Revision History				
Version	Issue Date	Revisions Content		
R_V0	2024-08-07	Original		
Note:	Once the revision has	Once the revision has been made, then previous versions reports are invalid.		

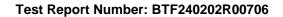




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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.	
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China	
Phone Number:	+86-0755-23146130	
Fax Number:	+86-0755-23146130	

1.2 Identification of the Responsible Testing Location

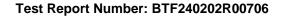
Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.		
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China		
Description:	All measurement facilities used to collect the measurement data are located at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China		
FCC Registration Number:	518915		
Designation Number:	CN1330		

1.3 Laboratory Condition

Ambient Temperature:	20℃ to 35℃
Ambient Relative Humidity:	45% to 55%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) 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.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





2. Product Information

2.1 Application Information

Company Name:	Shenzhen Kenxinda Technology Co., Ltd.
Address:	5 Floors, Shenzhen Bay Science and Technology Park, Nanshan District, Shenzhen, China

2.2 Manufacturer Information

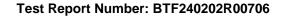
Company Name:	Sichuan Southwest Prosperity Communication Technology Limited Company	
Address:	NO.98, New Tianwan Road, Lingang Development Zone, Yibin Sichuan P.R.China	

2.3 Factory Information

Company Name:	Sichuan Southwest Prosperity Communication Technology Limited Company
Address:	NO.98, New Tianwan Road, Lingang Development Zone, Yibin Sichuan P.R.China

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Mobile phone		
Test Model Number:	A11		
Series Model Number:	13C		
Description of Model name differentiation:	Only the appearance is different, everything else is the same		
Hardware Version:	KXD02_MB_V1.31		
Software Version:	A11_KXD-V1.03		

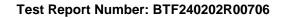




2.5 Technical Information

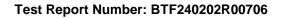
The requirement for the following technical information of the EUT was tested in this report:

	GSM/GPRS/EGPRS 850/1900MHz		
Operating Bands	WCDMA/HSDPA/HSUPA Band 2/4/5		
	FDD LTE Band 2/4/5/7/12/17/26/66		
	GSM/GPRS	GMSK	
	EGPRS 8PSK		
	WCDMA QPSK		
Modulation Type	HSDPA/HSUPA	QPSK	
		16QAM	
	LTE	QPSK	
	LIL	16QAM	
	GSM/GPRS/EGP	RS 850: 824.2 MHz ~ 848.8 MHz	
	GSM/GPRS/EGP	RS 1900: 1850.2 MHz ~ 1909.8 MHz	
	WCDMA/HSDPA/	HSUPA Band 2: 1852.4 MHz ~ 1907.6 MHz	
	WCDMA/HSDPA/	HSUPA Band 4: 1712.4 MHz ~ 1752.6 MHz	
	WCDMA/HSDPA/HSUPA Band 5: 826.4 MHz ~ 846.6 MHz		
	FDD LTE Band 2: 1850.7 MHz ~ 1909.3 MHz		
TX Frequency Range	FDD LTE Band 4: 1710.7 MHz ~ 1754.3 MHz		
	FDD LTE Band 5: 824.7 MHz ~ 848.3 MHz		
	FDD LTE Band 7: 2502.5MHz ~ 2567.5 MHz		
	FDD LTE Band 12: 699.7 MHz ~ 715.3 MHz		
	FDD LTE Band 17: 706.5 MHz ~ 713.5 MHz		
	FDD LTE Band 26: 814.7 MHz ~ 848.3 MHz		
	FDD LTE Band 66: 1710.7 MHz ~ 1779.3 MHz		
		RS 850: 869.2 MHz ~ 893.8 MHz	
		RS 1900: 1930.2 MHz ~ 1989.8 MHz	
	WCDMA/HSDPA/HSUPA Band 2: 1932.4 MHz ~ 1987.6 MHz		
	WCDMA/HSDPA/HSUPA Band 4: 2112.4 MHz ~ 2152.6 MHz		
	WCDMA/HSDPA/HSUPA Band 5: 871.4 MHz ~ 891.6 MHz		
		1930.7 MHz ~ 1989.3 MHz	
Rx Frequency Range	FDD LTE Band 4: 2110.7 MHz ~ 2154.3 MHz		
	FDD LTE Band 5: 869.7 MHz ~ 893.3 MHz		
	FDD LTE Band 7: 2662.5 MHz ~ 2687.5 MHz		
		2: 729.7 MHz ~ 745.3 MHz	
	FDD LTE Band 17: 736.5 MHz ~ 743.5MHz		
	FDD LTE Band 26: 859.7 MHz ~893.3 MHz		
	FDD LTE Band 66: 2110.7 MHz ~ 2179.3 MHz		





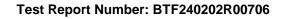
	GSM/GPRS 850: 4 GSM/GPRS 1900: 1
	EGPRS 850/1900: E2 WCDMA/HSDPA/HSUPA Band 2: 3 WCDMA/HSDPA/HSUPA Band 4: 3 WCDMA/HSDPA/HSUPA Band 5: 3
	FDD LTE Band 2: 3
Power Class	FDD LTE Band 4: 3
	FDD LTE Band 5: 3
	FDD LTE Band 7: 3
	FDD LTE Band 12: 3
	FDD LTE Band 17: 3
	FDD LTE Band 26: 3
	FDD LTE Band 66: 3
Multislot Class	GSM/GPRS/EGPRS: 12
Antenna Type	PIFA Antenna





	GSM850	GSM1900	WCDMA B2	WCDMA B4	
	0.68dBi	0.16dBi	0.16dBi	0.16dBi	
	WCDMA B5	LTE B2	LTE B4	LTE B5	
Antenna Gain	-0.68dBi	0.16Bi	0.16dBi	-0.68dBi	
Antenna Gain	LTE B7	LTE B12	LTE B17	LTE B26	
	-0.27dBi	-0.68dBi	-0.68Bi	-0.77dBi	
	LTE B66				
	-0.16dBi				
	GSM850: 28.90dB	sm			
	GSM1900: 27.84dBm				
	WCDMA Band II:21.66dBm				
	WCDMA Band IV: 21.88dBm				
	WCDMA Band V: 19.68dBm				
	FDD LTE Band 2: 22.46dBm				
TI M. DEO ()	FDD LTE Band 4: 22.09dBm				
The Max RF Output Power (EIRP/ERP)	FDD LTE Band 5: 19.82dBm				
1 01101 (21111 / 2111)	FDD LTE Band 7: 20.30dBm				
	FDD LTE Band 12: 19.91dBm				
	FDD LTE Band 17: 19.93dBm				
	FDD LTE Band 26a: 19.58dBm				
	FDD LTE Band 26b: 19.59dBm				
	FDD LTE Band 66	: 22.16dBm			

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

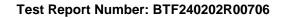




3. Summary of Test Results

3.1 Test Standards

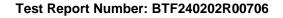
No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 Subpart H	Cellular Radiotelephone Service
3	47 CFR Part 24 Subpart E	Broadband PCS
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	47 CFR Part 90	PRIVATE LAND MOBILE RADIO SERVICES
6	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
7	KDB 971168 D01 v03r01	Measurement Guidance for Certification of Licensed Digital Transmitters
8	ANSI C63.26:2015	IEEE/ANSI Standard for Compliance Testing of Transmitters Used in Licensed Radio Services





3.2 Summary of Test Result

No.	Description	FCC Part No.	Test Verdict	Remark
1	Conducted RF Output Power	2.1046	Pass	
2	Effective (Isotropic) Radiated Power	2.1046 22.913(a) 24.232(c)	Pass	
li to	1 6.116.	27.50 90.635(b)		
3	Peak to Average Radio	2.1046 22.913(d) 24.232(d) 27.50(d)	Pass	
4	Occupied Bandwidth	2.1049 22.917(b) 24.238(b) 27.53	Pass	
5	Frequency Stability	2.1055 22.355 24.235 27.54	Pass	
6	Spurious Emission at Antenna Terminals	2.1051 22.917 24.238 27.53	Pass	
7	Band Edge	2.1051 22.917 24.238 27.53	Pass	
8	Field Strength of Spurious Radiation	2.1053 22.917 24.238 27.53	Pass	

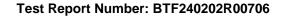




3.3 Uncertainty of Test

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2 and TR100 028-1/-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
RF output power, conducted	0.63 dB
Conducted spurious emissions	0.94 dB
Radiated emissions (<1 GHz)	4.12 dB
Radiated emissions (>1 GHz)	4.16 dB
Occupied Channel Bandwidth	69 KHz
Frequency Stability	0.4 KHz
Temperature	0.82 °C
Humidity	4.1 %





4. Test Configuration

4.1 Environment Condition

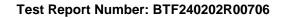
During the measurement, the environmental conditions were within the listed ranges:

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)	3.42 V				
	HV (High Voltage)	4.18 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

	Conducted Method Test											
Description	Description Manufacturer		Serial No.	Cal. Date	Cal. Due	Use						
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2023.11.16	2024.11.15	\boxtimes						
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2023.11.16	2024.11.15	\boxtimes						
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2023.11.16	2024.11.15	\boxtimes						
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023.11.16	2024.11.15	\boxtimes						
RF Sensor Unit	Techy	TR1029-2	/	2023.11.16	2024.11.15	\boxtimes						
RF Control Unit	Techy	TR1029-1	/	2023.11.16	2024.11.15	\boxtimes						
RFTest software	/	V1.00	/	/	/	\boxtimes						

Radiated Method Test										
Description	Description Manufacturer		Serial No.	Cal. Date	Cal. Due	Use				
SIGNAL ANALYZER	GNAL ANALYZER ROHDE&SCHWARZ		100010	2023.11.16	2024.11.15	\boxtimes				
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2023.11.16	2024.11.15	\boxtimes				
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023.11.16	2024.11.15	\boxtimes				
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023.11.16	2024.11.15	\boxtimes				
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/	\boxtimes				
RE Cable	REBES Talent	UF2-NMNM- 10m	21101570	2023.11.16	2024.11.15	\boxtimes				





RE Cable	REBES Talent	UF1-SMASMAM- 10m	21101566	2023.11.16	2024.11.15	\boxtimes
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2023.11.16	2024.11.15	\boxtimes
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2023.11.16	2024.11.15	\boxtimes
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	2023.11.16	2024.11.15	\boxtimes
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2023.11.16	2024.11.15	\boxtimes
RE Cable	REBES Talent	UF1-SMASMAM- 10m	21101566	2023.11.16	2024.11.15	\boxtimes
Preamplifier	SCHWARZBECK	BBV9744	00246	2023.11.16	2024.11.15	\boxtimes
Horn Antenna	Schwarzbeck	BBHA9120D	2597	2023.11.16	2024.11.15	\boxtimes
Signal Generator	Schwarzbeck	SMR20	1008100050	2023.11.16	2024.11.15	\boxtimes
Log periodic antenna	SCHWARZBECK	VUBA9117	359	2023.11.16	2024.11.15	\boxtimes
Low Noise Pre- amplifier	Sket	LNPA_1840G-50	SK2022032902	2023.11.16	2024.11.15	\boxtimes
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023.11.16	2024.11.15	\boxtimes
Broadband Preamplilifier	Schwarzbeck	BBV9718D	00008	2023.11.16	2024.11.15	\boxtimes

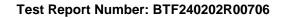
4.3 Test Auxiliary Equipment

Description	Manufacturer	Model	Serial No.	Length	Description	Use
/	1	/	/	/	/	\boxtimes





Took Itoms	Toot Mada		Test Channel	
Test Items	Test Mode	LCH	MCH	HCH
	GPRS 850	V	V	٧
	GPRS 1900	V	٧	V
	EGPRS 850	V	V	V
Effective (Isotropic) Radiated Power	EGPRS 1900	V	V	V
	WCDMA Band 2	V	٧	V
	WCDMA Band 4	V	V	V
	WCDMA Band 5	V	V	V
	HSDPA Band 2	V	V	V
	HSDPA Band 4			
	HSDPA Band 5	V	V	V
	HSUPA Band 2	V	٧	٧
	HSUPA Band 4	V	٧	٧
	HSUPA Band 5	V	٧	V
3 - 103	GPRS 850	V	٧	V
	GPRS 1900	V	٧	V
	EGPRS 850	V	V	V
	EGPRS 1900	V	V	٧
	WCDMA Band 2	V	V	V
	WCDMA Band 4	V	٧	V
Spurious Emission at Antenna Terminals	WCDMA Band 5	V	V	V
Antenna Terminais	HSDPA Band 2	V	V	٧
	HSDPA Band 4	V	٧	V
	HSDPA Band 5	V	V	٧
	HSUPA Band 2	V	V	٧
	HSUPA Band 4	V	٧	V
	HSUPA Band 5	V	V	٧
	GPRS 850	V	٧	V
	GPRS 1900	V	٧	٧
	EGPRS 850	V	V	V
Field Other will be f	EGPRS 1900	V	V	٧
Field Strength of Spurious Radiation	WCDMA Band 2	V	٧	٧
Spanous Radiation	WCDMA Band 4	V	٧	٧
	WCDMA Band 5	V	٧	V
	HSDPA Band 2	V	V	٧
	HSDPA Band 4	V	٧	V

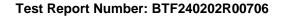




HSDPA Band 5	V	V	V
HSUPA Band 2	V	V	V
HSUPA Band 4	V	V	V
HSUPA Band 5	V	V	V

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

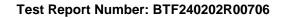
Test Mode	UL Channel	UL Channel No.	UL Frequency (MHz)
	Low Channel	128	824.2
GPRS/EGPRS 850	Middle Channel	190	836.6
High Channel Low Channel GPRS/EGPRS 1900 Middle Channel High Channel Low Channel WCDMA Band 2 Middle Channel	251	848.8	
	Low Channel	512	1850.2
GPRS/EGPRS 1900	Middle Channel	661	1880.0
	High Channel	810	1909.8
	Low Channel	9262	1852.4
WCDMA Band 2	Middle Channel	9400	1880.0
	High Channel	9538	1907.6
	Low Channel	1312	1712.4
WCDMA Band 4	Middle Channel	1413	1732.6
	High Channel	1513	1752.6
	Low Channel	4132	826.4
WCDMA Band 5	Middle Channel	4182	836.4
	High Channel	4233	846.6





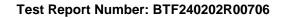
LTE		Bar	ndwid	th (MF	Hz)		Modula	ition Type		RB#		Te	st Chan	nel
Band	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
					Effe	ective	(Isotropic) Radiated F	Power					
2	٧	٧	٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
4	٧	٧	٧	٧	٧	٧	V	V	٧	٧	٧	٧	٧	٧
5	٧	٧	٧	٧	n	n	٧	V	٧	٧	٧	٧	٧	٧
7	n	n	٧	٧	٧	٧	V	V	٧	٧	٧	٧	٧	٧
12	٧	٧	٧	٧	n	n	V	V	٧	٧	٧	٧	٧	٧
17	V	٧	٧	٧	٧	٧	V	V	٧	٧	٧	٧	٧	٧
26	V	٧	V	٧	٧	n	٧	V	V	٧	٧	٧	٧	٧
66	V	٧	V	٧	V	٧	V	V	٧	V	٧	V	V	V
						Pe	ak to Ave	rage Ratio						
2	V	٧	V	٧	٧	٧	V	V	٧	٧	٧	٧	٧	V
4	٧	٧	٧	٧	٧	٧	V	V	٧	٧	٧	٧	٧	V
5	V	٧	V	٧	n	n	V	V	٧	٧	٧	V	٧	V
7	n	n	٧	٧	٧	>	V	V	>	V	>	٧	V	V
12	٧	٧	٧	٧	n	n	٧	٧	٧	٧	٧	٧	٧	٧
17	٧	٧	V	٧	٧	٧	V	V	V	٧	٧	٧	٧	V
26	V	V	V	V	V	n	V	V	V	V	٧	٧	V	V
66	V	V	V	V	٧	٧	V	V	V	V	V	V	V	V
						0	ccupied E	Bandwidth						
2	V	٧	٧	٧	V	٧	V	V	٧	V	٧	٧	V	V
4	V	V	٧	V	٧	٧	V	V	٧	٧	V	V	V	V
5	V	V	٧	٧	n	n	V	V	V	٧	٧	V	V	V
7	n	n	V	V	V	٧	V	V	٧	V	٧	٧	V	V
12	V	٧	V	V	n	n	V	V	V	V	٧	V	٧	V
17	٧	٧	V	V	٧	٧	V	V	V	V	٧	٧	٧	V
26	V	V	V	V	V	n	V	V	V	V	٧	V	V	V

	Frequency Stability													
2	٧	٧	٧	>	>	٧	V	V	٧	٧	٧	٧	V	٧
4	٧	٧	٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
5	٧	٧	٧	٧	n	n	V	V	٧	٧	٧	٧	٧	٧
7	n	n	٧	٧	٧	٧	V	V	٧	٧	٧	V	٧	٧
12	٧	٧	٧	٧	n	n	V	V	٧	٧	٧	٧	٧	٧
17	٧	٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	V	V
26	V	V	٧	٧	V	n	V	V	V	V	V	V	V	٧
66	V	V	٧	٧	٧	٧	V	V	V	٧	V	V	V	V





					Spurio	ous Er	mission a	t Antenna T	ermina	als				
2	٧	٧	V	V	V	٧	V	٧	٧	٧	V	٧	V	V
4	٧	٧	V	٧	V	٧	V	V	٧	٧	V	V	V	٧
5	٧	٧	V	V	n	n	V	V	٧	V	V	٧	V	V
7	n	n	٧	٧	٧	٧	V	V	٧	V	٧	V	V	V
12	٧	٧	٧	٧	n	n	V	٧	٧	٧	٧	٧	V	V
17	V	٧	V	٧	V	V	V	V	٧	٧	V	V	V	V
26	٧	٧	٧	V	V	n	V	٧	٧	٧	٧	V	V	٧
66	٧	٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	V	٧
							Band	Edge						
2	٧	٧	V	V	V	V	V	٧	V	٧	٧	V	V	V
4	V	٧	٧	٧	٧	٧	V	V	٧	V	٧	٧	V	V
5	٧	٧	٧	٧	n	n	V	V	٧	٧	٧	٧	V	V
7	n	n	٧	٧	٧	٧	V	V	٧	V	٧	٧	V	V
12	٧	٧	٧	٧	n	n	V	٧	٧	٧	٧	٧	V	٧
17	V	٧	V	٧	V	V	V	V	٧	V	٧	V	V	V
26	V	٧	٧	٧	٧	n	V	V	٧	٧	٧	٧	V	V
66	٧	٧	٧	٧	V	V	V	٧	٧	٧	V	٧	V	٧





	Field Strength of Spurious Radiation													
2	٧	٧	٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
4	٧	٧	٧	٧	٧	V	٧	V	٧	٧	٧	V	٧	٧
5	٧	٧	٧	٧	n	n	٧	٧	V	V	V	٧	V	>
7	n	n	٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
12	٧	٧	٧	٧	n	n	٧	V	٧	٧	٧	٧	٧	٧
17	٧	٧	٧	٧	٧	٧	V	٧	V	V	٧	V	V	٧
26	٧	V	V	V	V	n	V	V	V	V	V	V	V	V
66	٧	٧	٧	V	V	٧	V	V	V	٧	٧	V	V	٧

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.





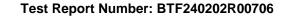
			Ban	d 2		
0.000	Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
		1.4	18607	1850.7	607	1930.7
		3	18615	1851.5	615	1931.5
	Law Dance	5	18625	1852.5	625	1932.5
	Low Range	10	18650	1855	650	1935
		15 ^[1]	18675	1857.5	675	1937.5
		20 [1]	18700	1860	700	1940
	Mid Range	1.4/3/5/10 15 ^[1] /20 ^[1]	18900	1880	900	1960
		1.4	19193	1909.3	1193	1989.3
		3	19185	1908.5	1185	1988.5
	Historian	5	19175	1907.5	1175	1987.5
	High Range	10	19150	1905	1150	1985
		15 ^[1]	19125	1902.5	1125	1982.5
		20 [1]	19100	1900	1100	1980
	NOTE 1: Bandwidth 36.101 [2	for which a relaxat [7] Clause 7.3) is al		cified UE receiver	sensitivity re	quirement (TS

Band 4

Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	19957	1710.7	1957	2110.7
	3	19965	1711.5	1965	2111.5
Low Range	5	19975	1712.5	1975	2112.5
Low Range	10	20000	1715	2000	2115
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
	1.4	20393	1754.3	2393	2154.3
	3	20385	1753.5	2385	2153.5
High Range	5	20375	1752.5	2375	2152.5
riigii Karige	10	20350	1750	2350	2150
	15	20325	1747.5	2325	2147.5
	20	20300	1745	2300	2145

Band 5

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	20407	824.7	2407	869.7
L D	3	20415	825.5	2415	870.5
Low Range	5	20425	826.5	2425	871.5
	10 ^[1]	20450	829	2450	874
Mid Range	1.4/3/5 10 ^[1]	20525	836.5	2525	881.5
	1.4	20643	848.3	2643	893.3
Ulah Danas	3	20635	847.5	2635	892.5
High Range	5	20625	846.5	2625	891.5
	10 ^[1]	20600	844	2600	889
NOTE 1: Bandwidth fo	or which a relaxatio		fied UE receiver sen	sitivity requir	ement (TS





Band 7

Table 4.3.1.1.7-1: Test frequencies for E-UTRA channel bandwidth for operating band 7

Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	5	20775	2502.5	2775	2622.5
I D	10	20800	2505	2800	2625
Low Range	15	20825	2507.5	2825	2627.5
Ī	20 [1]	20850	2510	2850	2630
Mid Range	5/10/15 20 ^[1]	21100	2535	3100	2655
	5	21425	2567.5	3425	2687.5
High Range	10	21400	2565	3400	2685
	15	21375	2562.5	3375	2682.5
Ī	20 [1]	21350	2560	3350	2680

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 38.101 [27] Clause 7.3) is allowed.

Band 12

Table 4.3.1.1.12-1: Test frequencies for E-UTRA channel bandwidth for operating band 12

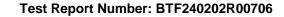
Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	23017	699.7	5017	729.7
Low Range	3	23025	700.5	5025	730.5
Low Range	5 [1]	23035	701.5	5035	731.5
	10 [1]	23060	704	5060	734
Mid Range	1.4/3 5 [^{1]} /10 [¹]	23095	707.5	5095	737.5
	1.4	23173	715.3	5173	745.3
Llink Danna	3	23165	714.5	5165	744.5
High Range	5 [1]	23155	713.5	5155	743.5
i	10 [1]	23130	711	5130	741

DTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

Band 17

Table 4.3.1.1.17-1: Test frequencies for E-UTRA channel bandwidth for operating band 17

Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Low Range	5 M	23755	706.5	5755	736.5
Low Range	10 [1]	23780	709	5780	739
Mid Range	5 ^m /10 ^m	23790	710	5790	740
High Dance	5 [1]	23825	713.5	5825	743.5
High Range	10 ^[1]	23800	711	5800	741





Band26

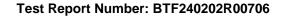
Table 4.3.1.1.26-1: Test frequencies for E-UTRA channel bandwidth for operating band 26

Test Frequency ID	Bandwidth [MHz]	Nuc	Frequency of Uplink [MHz]	Nou	Frequency of Downlink [MHz]
1.5	1.4	26697	814.7	8697	859.7
1	3	26705	815.5	8705	860.5
Low Range	5	26715	816.5	8715	861.5
	10(1)	26740	819	8740	864
	15 19	26765	821.5	8765	866.5
Mid Range	1.4/3/5/10 ^[1] 15 ^[1]	26865	831.5	8865	876.5
	1.4	27033	848.3	9033	893.3
	3	27025	847.5	9025	892.5
High Range	5	27015	846.5	9015	891,5
	1000	26990	844	8990	889
	15 (1)	26965	841.5	8965	886.5

Band 66

Table 4.3.1.1.66-1: Test frequencies for E-UTRA channel bandwidth for operating band 66

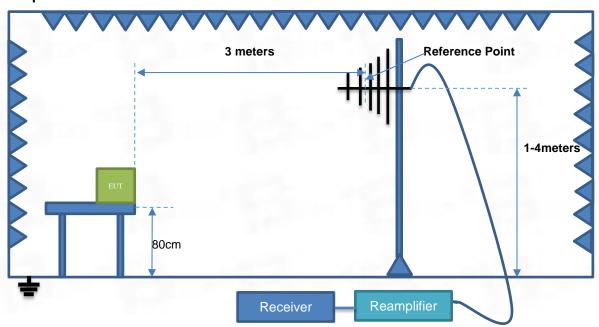
Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	131979	1710.7	66443	2110.7
	3	131987	1711.5	66451	2111.5
Low Dongs	5	131997	1712.5	66461	2112.5
Low Range	10	132022	1715	66486	2115
	15	132047	1717.5	66511	2117.5
	20	132072	1720	66536	2120
Mid Range Tx1	1.4/3/5/10/15/20	132322	1745	66786	2145
Mid Range	1.4/3/5/10/15/20	132422	1755	66886	2155
	1.4	132665	1779.3	67129	2179.3
	3	132657	1778.5	67121	2178.5
Paired High	5	132647	1777.5	67111	2177.5
Range ²	10	132622	1775	67086	2175
	15	132597	1772.5	67061	2172.5
	20	132572	1770	67036	2170
	1.4	NA	NA	67329	2199.3
	3	NA	NA	67321	2198.5
High Range ³	5	NA	NA	67311	2197.5
nigii Range	10	NA	NA	67286	2195
	15	NA	NA	67261	2192.5
	20	NA	NA	67236	2190



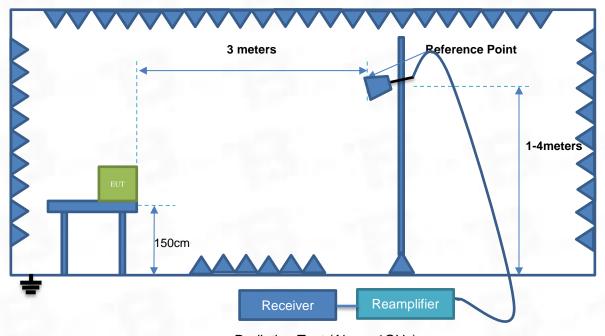


4.5 Test Setup

Test Setup 1



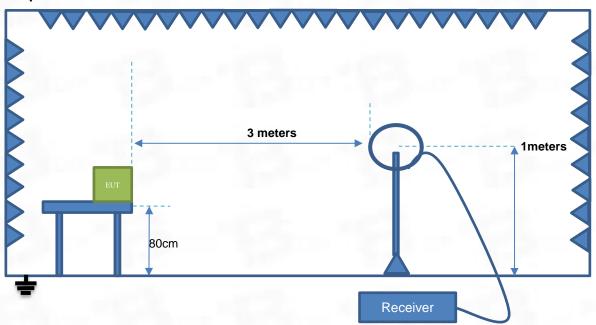
Radiation Test (30MHz - 1GHz)



Radiation Test (Above 1GHz)

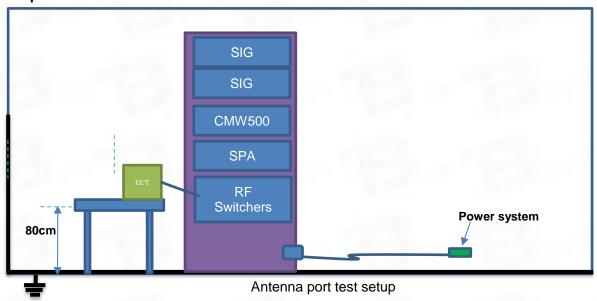


Test Setup 2



Radiation Test (9k - 30MHz)

Test Setup 3



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) & 90.635(b) & 90.542(a); RSS-103 4.6; RSS-132 5.4, RSS-133 6.4, RSS-139 6.5, RSS199 4.4

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.

According to FCC section 90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20dBW).

According to FCC section 90.542(a) (7), portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

5.1.2 Test Setup

The section 4.4 test setup 4 description is used for conducted test, and the 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 a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

Final measurement calculation as below:

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

ERP/EIRP = PMeas + GT - LC

where:

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



PMeas = measured transmitter output power or PSD, in dBm or dBW; GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP); 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 PMeas 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 the appendix report



5.2 Peak to Average Ratio

5.2.1 Limit

FCC § 2.1046 & 24.232(d) & 27.50(d); RSS-130 4.6.1, RSS-133 6.4, RSS-139 6.5, RSS199 4.4

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

According to FCC section 24.232(d); RSS-133 6.4, 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)); RSS-133 6.4,, 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); RSS-139 6.5, in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

According to RSS-19 4.4, In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

5.2.2 Test Setup

The section 4.5 test setup 5 description is used for conducted test, and the test setup description is used for radiated 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:

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

PAPR (dB) = PPk (dBm) - PAvg (dBm).

5.2.4 Test Result

Please refer to the appendix report



5.3 Occupied Bandwidth

5.3.1 Limit

FCC § 2.1049, RSS-Gen 6.7

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

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and 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.

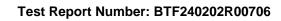
5.3.2 Test Setup

The section 4.5 test setup 5 description is used for conducted test, and the test setup description is used for radiated 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).
- i) Change variable modulations, coding, or channel bandwidth settings, then repeat above test procedures.

5.3.4 Test Result

Please refer to the appendix report



5.4 Frequency Stability

5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235 & 27.54 & 90.213; RSS-130 4.5, RSS-132 5.3, RSS-133 6.3, RSS-139 6.4, RSS199 4.3

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, RSS-132 5.3

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, RSS-133 6.3

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

FCC § 27.54, RSS-139 6.4

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



FCC § 90.213, RSS199 4.3

The frequency stability shall not depart from the reference frequency in excess of ±2.5ppm for mobile stations.

5.4.2 Test Setup

The section 4.5 test setup 6 description is used for conducted test, and the test setup description is used for radiated 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 the appendix report



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) & 90.691 & 90.543; RSS-130 4.7, RSS-132 5.5, RSS-133 6.5, RSS-139 6.6, RSS199 4.5

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

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

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

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

FCC § 27.53(a) (4), RSS-139 6.6

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), RSS-139 6.6

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), RSS-139 6.6

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), RSS-139 6.6

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

FCC § 27.53(h) (1), RSS-139 6.6

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.

FCC § 27.53(m) (4) , RSS-139 6.6

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.

FCC § 90.691



- (a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.
- (b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

- (e) For operations in the 758–768 MHz and the 788–798 MHz bands, 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 all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) 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.
- (f) For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics 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.

RSS199 4.5

- (a) for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p.
- (b) for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:
 - (i) 40 + 10 log10 p from the channel edges to 5 MHz away
 - (ii) 43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and
 - (iii) 55 + 10 log10 p at X MHz and beyond from the channel edges
- In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.
- In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

5.5.2 Test Setup



The section 4.5 test setup 5 description is used for conducted test, and the test setup description is used for radiated 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.

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.

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.

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

Record the frequencies and levels of spurious emissions.

5.5.4 Test Result

Please refer to the appendix report



5.6 Band Edge Emission

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) & 90.691& 90.543; RSS-130 4.7, RSS-132 5.5, RSS-133 6.5, RSS-139 6.6, RSS199 4.5

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

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

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

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

FCC § 27.53(a) (4), RSS-139 6.6

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), RSS-139 6.6

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 6.25Hz 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 6.25kHz 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), RSS-139 6.6

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

FCC § 27.53(h) (1), RSS-139 6.6

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.

FCC § 27.53(m) (4), RSS-139 6.6

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.

FCC § 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels



or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.
- (b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

- (e) For operations in the 758–768 MHz and the 788–798 MHz bands, 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 all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) 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.

RSS199 4.5

- (a) for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p.
- (b) for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:
 - (i) 40 + 10 log10 p from the channel edges to 5 MHz away
 - (ii) 43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and
 - (iii) 55 + 10 log10 p at X MHz and beyond from the channel edges
- In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.
- In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

5.6.2 Test Setup

The section 4.5 test setup 5 description is used for conducted test, and the test setup description is used for radiated 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 dBLimit Line = -35 dBm + 2.04 dB = -32.96dBm

5.6.4 Test Result

Please refer to the appendix report



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) & 90.691& 90.543; RSS-130 4.7, RSS-132 5.5, RSS-133 6.5, RSS-139 6.6, RSS199 4.5

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), RSS-139 6.6

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), RSS-139 6.6

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), RSS-139 6.6

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), RSS-139 6.6

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

FCC § 27.53(h) (1), RSS-139 6.6

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (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.

FCC § 90.691

- (a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80



decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

- (e) For operations in the 758–768 MHz and the 788–798 MHz bands, 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 all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) 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.

RSS199 4.5

- (a) for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p.
- (b) for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:
 - (i) 40 + 10 log10 p from the channel edges to 5 MHz away
 - (ii) 43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and
 - (iii) 55 + 10 log10 p at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

5.7.2 Test Setup

The section 4.5 test setup 4 description is used for conducted test, and the test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

- 1. On a test site, the EUT shall be placed at 80cm height on a turn table, and in the position close to normal use as declared by the applicant.
- 2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
- 3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.



- 4. During the measurement of the EUT, the resolution bandwidth was to 1 MHz and the average bandwidth was set to 1 MHz.
- 5. The transmitter shall be switched on; the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.
- 7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- 8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
- 9. The maximum signal level detected by the measuring receiver shall be noted.
- 10. The EUT was replaced by half-wave dipole (824 ~ 849 MHz) or horn antenna (1 850 ~ 1 910 MHz) connected to a signal generator.
- 11. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- 12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- 13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring 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;

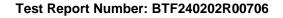
SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm; Correction Factor = total correction factor including cable loss, in dB;

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

Note:1.It was found that the emission value below 1GHz and above 18GHz was below the limit of 20dB, so it was recorded in the report.

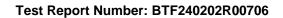
2G Part:

Note: All mode are tested, and the report only shows the worst mode of GSM(Voice).

Bar	nd:	GSN	1850	Te chan		Lowe	st		est de:	GSM	Po	olarization:]
No.	Freque	-		ding Bm)		tor B)	Lev (dB		Limit			Detector	P/F
1	1648.4	400	-5.	39	-39	.00	-44.	39	-13.00	-31.	39	peak	Р
2	2472.0	600	-28	.15	-37	.15	-65.	30	-13.00	-52.	30	peak	Р
3	3296.8	800	-28	.23	-37	.03	-65.	26	-13.00	-52.	26	peak	Р

Bar	nd:	GSM	1850	Te chan		Lowe	est		est de:	GSM	Polarization:	1
										1		
No.	Freque (MH	-		ding Bm)		tor B)	Le ve (dBı		Limit (dBm)	Margin (dB)	Detector	P/F
1	1648.	400	-28	.13	-39	.00	-67.	13	-13.00	-54.13	peak	Р
2	2472.	600	-28	.28	-37	.15	-65.4	43	-13.00	-52.43	peak	Р
3	3296.	800	-28	.21	-37	.03	-65.2	24	-13.00	-52.24	peak	Р

Bar	nd:	GSM	1850	Te chan	st nel:	Midd	l1e		est de:		GSM	Po	larization:	Н
NI	Freque	ency	Read	ling	Fac	tor	Lev	e1	Limi	t	Margi	n	D - 4 4	D/E
No.	(MH	z)	(dI	3m)	(d	B)	(dB	m)	(dBm)	(dB)		Detector	P/F
1	1673.2	200	-6.	25	-38	.89	-45.	14	-13.0	0	-32.14		peak	Р
2	2509.8	300	-29	.01	-37	.04	-66.	.05	-13.0	0	-53.05	5	peak	Р
3	3346.4	100	-29	.09	-36	.92	-66.	01	-13.0	0	-53.01		peak	Р

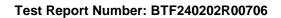




Bar	nd:	GSM	1850	Te chan		Midd	1e		est de:	GSM	Polarization:	1
No.	Freque (MH:	-	Read (dE	ling Sm)		tor B)	Leve (dBn		Limit (dBm)	Margir (dB)	Detector	P/F
1	1673.2	200	-27	.71	-38	.89	-66.6	0	-13.00	-53.60	peak	Р
2	2509.8	300	-27	.86	-37	.04	-64.9	90	-13.00	-51.90	peak	Р
3	3346.4	100	-27	.79	-36	.92	-64.7	1	-13.00	-51.71	peak	Р

В	and:		GSM	1850	Te chan	st nel:	High	est		est ode:		GSM I	Detector	I
No.		Freque (MHz	•	Read (dE			tor B)	Lev (dE		Limi (dBm		Margin (dB)	Detector	P/F
1		1697.6	00	-6.	90	-38	.78	-45	.68	-13.0	0	-32.68	peak	Р
2		2546.4	00	-29	.66	-36	.93	-66	.59	-13.0	0	-53.59	peak	Р
3		3395.2	200	-29	.74	-36	.81	-66	.55	-13.0	0	-53.55	peak	Р

Bar	nd:	GSM	1850	Te chan	st nel:	High	est		est ode:	GSM :	Polarization:	7
No.	Freque	-		ding		tor	Leve		Limit	Margin	Detector	P/F
1	(MH:	,	-27	3m) .03		B) 3.78	(dBm	_	(dBm) -13.00	(dB) -52.81	peak	Р
3	2546.4 3395.2		-27 -27		-36 -36	.93	-64.1 -63.9	_	-13.00 -13.00	-51.11 -50.92	peak peak	P P

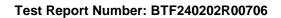




Ban	nd:	GSM:	1900	Te chan		Lowe	st		est de:	GSM	Polarization:	Н
No.	Freque	-		ding		tor	Leve	.	Limit	Margin	Detector	P/F
1	(MH 3700.			3m) 5.60	,	B) 7.12	(dBm		(dBm)	(dB) -49.72		Р
2	5550.	600	-24	.86	-34	.19	-59.0	5	-13.00	-46.05	peak	Р
3	7400.	800	-20	.55	-36	.24	-56.7	9	-13.00	-43.79	peak	Р

Bar	nd:	GSM	1900	Te chan	st nel:	Lowe	est		est de:	GSM	Polarization:	V
No.	Freque (MH:	-	Read (dF	ling Sm)		tor B)	Lev (dE	/e1 3m)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3700.4	100	-27	.65	-37	.12	-64	.77	-13.00	-51.77	peak	Р
2	5550.6	800	-25	.61	-34	.19	-59	.80	-13.00	-46.80	peak	Р
3	7400.8	300	-22	.06	-36	.24	-58	.30	-13.00	-45.30	peak	Р

Bar	nd:	GSM	1900	Te chan	st nel:	Midd	lle		est de:	GSM	Polarizat	ion:	Н
No.	Freque (MHz	-	Read (dE	ling Bm)	Fac	tor B)	Lev (dB		Limit (dBm)	Margi (dB)	n Detec	tor	P/F
1	3760.0	000	-26	.46	-37	.01	-63.	47	-13.00	-50.47	y pea	k	Р
2	5640.0	000	-25	.72	-34	.08	-59.	80	-13.00	-46.80) pea	k	Р
3	7520.0	000	-21	.41	-36	.13	-57.	54	-13.00	-44.54	pea	k	Р

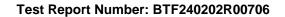




Bar	nd:	GSM	1900	Te chan	st nel:	Midd	l1e		est de:	GSM	Po	larization:	,
	Frague	nov.	D	1:	E	4	T	1	T :: 4	W			
No.	Freque (MH:	-		ding Bm)		tor B)	Lev (dE	rei Bm)	Limit (dBm)	Margi (dB)	n	Detector	P/F
1	3760.0	000	-27	.23	-37	.01	-64	.24	-13.00	-51.24	1	peak	Р
2	5640.0	000	-25	.19	-34	.08	-59	.27	-13.00	-46.27	7	peak	Р
3	7520.0	000	-21	.64	-36	.13	-57	.77	-13.00	-44.77	7	peak	Р

Bar	nd:	GSM	1900	Te chan		High	est		est ode:		GSM F	olarization:	
No.	Freque (MH:	_		ding Bm)		tor B)	Lev (dB		Limi	- 1	Margin (dB)	Detector	P/F
1	3819.6	300	-27	.11	-36	.90	-64.	.01	-13.00)	-51.01	peak	Р
2	5729.4	100	-26	.37	-33	.97	-60.	.34	-13.00)	-47.34	peak	Р
3	7639.2	200	-22	.06	-36	.02	-58.	.08	-13.00)	-45.08	peak	Р

Bar	nd:	GSM	1900	Te chan	st nel:	High	est		est ode:		GSM	Po	larization:	V
No.	Freque (MH:	-		ding Bm)		tor B)	Lev (dB		Limi (dBm		Margi (dB)	n	Detector	P/F
1	3819.6	300	-26	.55	-36	.90	-63.	.45	-13.0	0	-50.45	5	peak	Р
2	5729.4	100	-24	.51	-33	.97	-58.	.48	-13.0	0	-45.48	3	peak	Р
3	7639.2	200	-20	.96	-36	.02	-56.	.98	-13.0	0	-43.98	3	peak	Р





3G Part

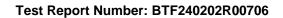
Note:1.It was found that the emission value below 1GHz and above 18GHz was below the limit of 20dB, so it was recorded in the report.

2.All mode are tested, and the report only shows the worst mode of RMC

Ban	d:		DMA d II	Te chan	st nel:	Lowe	st		est de:	RMC	Polarizati	on:	Н
No.	Freque (MH:	•	l	ding Sm)		tor B)	Leve (dBm		Limit	Margin (dB)	n Detect	or	P/F
1	3704.8			.95		.12	-51.0	-	-13.00	-38.07	peak		Р
2	5557.2	200	-23	.71	-34	.19	-57.9	0	-13.00	-44.90	peak		Р
3	7409.6	800	-18	.83	-36	.24	-55.0	7	-13.00	-42.07	peak		Р

Ban	nd:		DMA d II	Te chan		Lowe	st		est de:	RMC	Polarization:	1
No.	Freque (MHz	•		ding Bm)		tor B)	Leve (dBm		Limit (dBm)	Margir (dB)	Detector	P/F
1	3704.8	800	-25	.43	-37	.12	-62.5	5	-13.00	-49.55	peak	Р
2	5557.2	200	-24	.83	-34	.19	-59.0	2	-13.00	-46.02	peak	Р
3	7409.6	00	-21	.72	-36	.24	-57.9	6	-13.00	-44.96	peak	Р

Bar	nd:		DMA d II	Te chan	st nel:	Midd	le l		est de:		RMC	Polarization	: H
No.	Freque (MH:	-	Read (dl	ding Sm)		tor B)	Lev (dB		Limi (dBm		Margir (dB)	Detector	P/F
1	3760.0	000	-14	.81	-37	.01	-51.	82	-13.0	0	-38.82	peak	Р
2	5640.0	000	-24	.57	-34	.08	-58.	65	-13.0	0	-45.65	peak	Р
3	7520.0	000	-19	.69	-36	.13	-55.	82	-13.0	0	-42.82	peak	Р

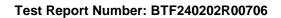




	Ban	d:		DMA d II	Te chan	st nel:	Midd	l1e		est de:]	RMC	Polarization:	v
	No.	Freque	-	l .	ding Bm)		tor B)	Lev (dE	re1 Bm)	Limi	- 1	Margir (dB)	Detector	P/F
	1	3760.0	000	-25	.01	-37	.01	-62	.02	-13.00)	-49.02	peak	Р
	2	5640.0	000	-24	.41	-34	.08	-58	.49	-13.00)	-45.49	peak	Р
ſ	3	7520.0	000	-21	.30	-36	.13	-57	.43	-13.00)	-44.43	peak	Р

Bar	nd:		DMA d II	Te chan	st nel:	High	est		est de:	RMC 1	Polarization:	H
No.	Freque (MH:	-		ding Bm)		tor B)	Lev (dE	vel Bm)	Limit	Margin	Detector	P/F
1	3815.2	200	-15	.46	-36	.90	-52	.36	-13.00	-39.36	peak	Р
2	5722.8	300	-25	.22	-33	.97	-59	.19	-13.00	-46.19	peak	Р
3	7630.4	100	-20	.34	-36	.02	-56	.36	-13.00	-43.36	peak	Р

Bar	nd:		DMA d II	Te chan		High	est		est de:	RMC	Po	larization:	
No.	Freque (MH:	-	Read (dl	ling Bm)		tor B)	Lev (dB		Limit	Margi (dB)	n	Detector	P/F
1	3815.2	200	-24	.33	-36	.90	-61.	.23	-13.00	-48.23	3	peak	Р
2	5722.8	300	-23	.73	-33	.97	-57.	.70	-13.00	-44.70)	peak	Р
3	7630.4	100	-20	.62	-36	.02	-56.	.64	-13.00	-43.64	4	peak	Р

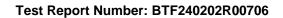




Ва	nd:		DMA d IV	Te chan	st nel:	Lowe	est		est de:	RMC	Polarizatio	on:
No.	Frequ (MF	-	Read (dl	ling Bm)	Fac	tor B)	Leve (dBr		Limit	Margi (dB)	n Detecto	or P/F
1	3424	.800	-27	-	-37	-	-65.0	-	-13.00	-52.09	peak	Р
2	5137	.200	-23	.17	-35	.01	-58.	18	-13.00	-45.18	peak	Р
3	6849	.600	-19	.08	-36	.13	-55.2	21	-13.00	-42.21	peak	Р

Bar	nd:		DMA d IV	Te chan		Lowe	st		est de:	RMC	Polarization	1
	Erogue	nev	Poor	ling	Foo	ton	Low	۵1	Limit	Mongin	.	1
No.	Freque (MH:	_		ding Bm)		tor B)	Lev (dB		(dBm)	Margin (dB)	Detector	P/F
1	3424.8	300	-27	.79	-37	.30	-65.	09	-13.00	-52.09	peak	Р
2	5137.2	200	-24	.01	-35	.01	-59.	02	-13.00	-46.02	peak	Р
3	6849.6	600	-20	.27	-36	.13	-56.	40	-13.00	-43.40	peak	Р

Bar	nd:		DMA d IV	Te chan		Midd	l1e		est de:	RMC	Polarization	:
No.	Freque (MH:	-		ding Bm)		tor B)	Lev (dB		Limit (dBm)	Margin (dB)	Detector	r P/F
1	3465.2	200	-28	.65	-37	.19	-65.	84	-13.00	-52.84	peak	Р
2	5197.8	300	-24	.03	-34	.90	-58.	93	-13.00	-45.93	peak	Р
3	6930.4	400	-19	.94	-36	.02	-55.	96	-13.00	-42.96	peak	Р

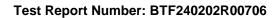




Bar	nd:		DMA d IV	Te chan		Midd	le		est de:	RI	MC I	Polarization:	V
	Freque	encv	Read	ding	Fac	tor	Lev	e1	Limi	t. 1	Margin		
No.	(MH	-	1	Bm)		B)	(dB		(dBm)		(dB)	Detector	P/F
1	3465.2	200	-27	.37	-37	.19	-64.	56	-13.00)	-51.56	peak	Р
2	5197.8	300	-23	3.59	-34	.90	-58.	49	-13.00)	-45.49	peak	Р
3	6930.4	100	-19	.85	-36	.02	-55.	87	-13.00)	-42.87	peak	Р

Bar	nd:		DMA d IV	Te chan		High	est		est ode:	R	RMC F	olarization:	
No.	Freque (MH:	-		ding Bm)		tor B)	Lev (dB		Limit		Margin (dB)	Detector	P/F
1	3505.2	200	-29	.30	-37	.08	-66.	38	-13.00)	-53.38	peak	Р
2	5257.8	300	-24	.68	-34	.79	-59.	47	-13.00)	-46.47	peak	Р
3	7010.4	100	-20	.59	-35	.91	-56.	50	-13.00)	-43.50	peak	Р

Bar	nd:		DMA d IV	Te chan	st nel:	High	est		est ode:	RMC	Polarization:	1
No.	Freque (MH	-	l .	ding Sm)		tor B)	Lev (dB		Limit (dBm)	Margir (dB)	Detector	P/F
1	3505.2	200	-26	.69	-37	.08	-63.	77	-13.00	-50.77	peak	Р
2	5257.8	800	-22	.91	-34	.79	-57.	70	-13.00	-44.70	peak	Р
3	7010.4	400	-19	.17	-35	.91	-55.	08	-13.00	-42.08	peak	Р

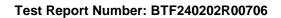




Bar	nd:		DMA nd V	Te chan	st nel:	Lowe	st		est de:	RMC	Polarization	: F
No.	Freque (MH:	•	Read (dl	ling Bm)	Fac	tor B)	Leve (dBm	_	Limit	Margi (dB)	n Detector	P/F
1	1652.8	300	-26	.15	-38	.08	-64.2	3	-13.00	-51.23	peak	Р
2	2479.2	200	-21	.41	-37	.15	-58.5	6	-13.00	-45.56	peak	Р
3	3305.6	300	-27	.05	-37	.03	-64.0	8	-13.00	-51.08	peak	Р

Bar	id:		DMA ad V	Te chan		Lowe	st. I		st de:	RMC I	Polarization:	7
No.	Freque (MH:	-		ding Bm)		tor B)	Leve:	- 1	Limit (dBm)	Margir (dB)	Detector	P/F
1	1652.8	300	-28	.70	-38	80.8	-66.78	3	-13.00	-53.78	peak	Р
2	2479.2	200	-29	.65	-37	'.15	-66.80)	-13.00	-53.80	peak	Р
3	3305.6	600	-28	.95	-37	.03	-65.98	3	-13.00	-52.98	peak	Р

Bar	nd:		DMA nd V	Te chan	st nel:	Midd	lle		est de:		RMC 1	Polarization:	ŀ
	_		_				-						1
No.	Freque (MHz	-	l	ding Sm)		tor B)	Lev (dB		Limi (dBm		Margin (dB)	Detector	P/F
1	1673.2	200	-27	.01	-37	.97	-64.	.98	-13.0	0	-51.98	peak	Р
2	2509.8	00	-22	.27	-37	.04	-59.	.31	-13.0	0	-46.31	peak	Р
3	3346.4	-00	-27	.91	-36	.92	-64.	.83	-13.0	0	-51.83	peak	Р

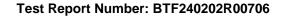




Ban	nd:		DMA nd V	Te chan	st nel:	Midd	l1e		est de:		RMC	Polarization:	1
												1	
No.	Freque	ency	Read	ding	Fac	tor	Lev	e1	Limi	t	Margir	Detector	P/F
NO.	(MH:	z)	(dI	Bm)	(d	B)	(dB	m)	(dBm))	(dB)	Detector	Г/Г
1	1673.2	200	-28	.28	-37	.97	-66.	25	-13.00)	-53.25	peak	Р
2	2509.8	300	-29	.23	-37	.04	-66.	27	-13.00)	-53.27	peak	Р
3	3346.4	100	-28	.53	-36	.92	-65.	45	-13.00)	-52.45	peak	Р

Bar	nd:		OMA .d V	Te chan		High	est		est de:		RMC 1	Polarization:	I
No.	Freque (MHz	-		ding Bm)		tor B)	Lev (dB		Limi (dBm)		Margin	Detector	P/F
1	1693.2	200	-27	.66	-37	.86	-65.	.52	-13.00)	-52.52	peak	Р
2	2539.8	800	-22	.92	-36	.93	-59.	.85	-13.00)	-46.85	peak	Р
3	3386.4	100	-28	.56	-36	.81	-65.	.37	-13.00)	-52.37	peak	Р

Bai	nd:		DMA nd V	Te: chan		High	est I	est de:	RMC 1	Polarization:	V
No.	Freque (MH	-		ding Bm)		tor B)	Level	Limit (dBm)	Margin (dB)	Detector	P/F
1	1693.	200	-27	.60	-37	.86	-65.46	-13.00	-52.46	peak	Р
2	2539.	800	-28	3.55	-36	.93	-65.48	-13.00	-52.48	peak	Р
3	3386.	400	-27	.85	-36	.81	-64.66	-13.00	-51.66	peak	Р





4G Part

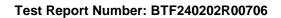
Note: 1.It was found that the emission value below 1GHz and above 18GHz was below the limit of 20dB, so it was recorded in the report.

2.All mode are tested, and the report only shows the worst mode of GPSK & maximum bandwidth

Bar	nd:		2	Te: chan	-	Lowe	st		est de:		20M	Po1	arization:	Н
No.	Freque	ency	Read	ling	Fac	tor	Lev	e1	Limi	t	Margin	n	Dotooton	P/F
NO.	(MH	z)	(dI	3m)	(d	B)	(dB	m)	(dBm)	(dB)		Detector	Г/Г
1	3701.4	100	-22	.49	-37	.12	-59.	61	-13.0	0	-46.61		peak	Р
2	5552.1	100	-24	.28	-34	.19	-58.	47	-13.0	0	-45.47		peak	Р
3	7402.8	300	-20	.87	-36	.24	-57.	11	-13.0	0	-44.11		peak	Р

Bar	nd:	2 chan	nel: Lowe	st	est de:	20M Po	olarization:	1
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3701.400	-16.27	-37.12	-53.39	-13.00	-40.39	peak	Р
2	5552.100	-24.39	-34.19	-58.58	-13.00	-45.58	peak	Р
3	7402.800	-21.55	-36.24	-57.79	-13.00	-44.79	peak	Р

Ban	d:		2	Te chan		Midd	le l		est de:		20M	Po	larization:	Н
No.	Freque (MH:	•		ding Sm)		tor B)	Lev (dB		Limi (dBm	.	Margi (dB)	n	Detector	P/F
1	3760.0	000	-23	.35	-37	.01	-60.	.36	-13.0	0	-47.36	3	peak	Р
2	5640.0	000	-25	.14	-34	.08	-59.	.22	-13.0	0	-46.22	2	peak	Р
3	7520.0	000	-21	.73	-36	.13	-57.	.86	-13.0	0	-44.86	3	peak	Р

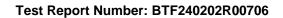




Ban	nd:	2	2	Te chan		Midd	le		est de:		20M	Po1	arization:	v
No.	Freque	ency	Read	ding	Fac	tor	Lev	e1	Limi	t	Margi	n	Detector	P/F
NO.	(MH	z)	(dI	3m)	(d	B)	(dB	Sm)	(dBm)	(dB)		Detector	Г/Г
1	3760.	000	-15	.85	-37	.01	-52.	.86	-13.0	0	-39.86	5	peak	Р
2	5640.	000	-23	.97	-34	.08	-58.	.05	-13.0	0	-45.05	,	peak	Р
3	7520.	000	-21	.13	-36	.13	-57.	26	-13.0	0	-44.26	;	peak	Р

Bar	nd:	2	Te chan		High	est		est ode:	20M	Ро	larization:	
No.	Frequency (MHz)		ding Bm)		tor B)	Leve (dBr		Limit	Margi (dB)	n	Detector	P/F
1	3818.600	-24	.00	-36	.90	-60.9	90	-13.00	-47.90)	peak	Р
2	5727.900	-25	.79	-33	.97	-59.7	76	-13.00	-46.76	3	peak	Р
3	7637.200	-22	.38	-36	.02	-58.4	40	-13.00	-45.40)	peak	Р

Bar	nd:		2	Te chan		High	est		est de:	20M	Polarization:	'
No.	Freque	-		ding Bm)		tor B)	Leve (dBm		Limit (dBm)	Margir (dB)	Detector	P/F
1	3818.6	300	-15	.17	-36	.90	-52.0	7	-13.00	-39.07	peak	Р
2	5727.9	900	-23	.29	-33	.97	-57.2	6	-13.00	-44.26	peak	Р
3	7637.2	200	-20	.45	-36	.02	-56.4	7	-13.00	-43.47	peak	Р

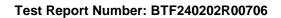




Bar	nd:		4	Te chan	st nel:	Lowe	st		est de:	2	2 0M]	Polarization:	Н
No.	Freque (MH:	•		ling Bm)		tor B)	Lev (dBi		Limi:		Margin	Detector	P/F
1	3435.0	000	-29	.22	-37	.30	-66.	52	-13.00	0	-53.52	peak	Р
2	5152.5	500	-24	.81	-35	.01	-59.8	32	-13.00	0	-46.82	peak	Р
3	6870.0	000	-19	.54	-36	.13	-55.6	67	-13.00	0	-42.67	peak	Р

Bar	nd:		4	chan	st nel:	Lowe	est		est ode:	20M	Pola	arization:	1
			_		_		l <u>-</u>	_		1			l
No.	Freque (MHz	•	Read (dE		Fac (d	tor B)	Leve (dBi		Limit (dBm)	Margi (dB)	n D	etector	P/F
1	3435.0	00	-29.	.32	-37	.30	-66.	62	-13.00	-53.62	2	peak	Р
2	5152.5	00	-23.	.26	-35	.01	-58.	27	-13.00	-45.27	'	peak	Р
3	6870.0	00	-18.	.33	-36	.13	-54.4	46	-13.00	-41.46	5	peak	Р

Bar	id:	4 chan	nel: Midd	lle l	est de:	20M P	olarization:	I
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3465.000	-30.08	-37.19	-67.27	-13.00	-54.27	peak	Р
2	5197.500	-25.67	-34.90	-60.57	-13.00	-47.57	peak	Р
3	6930.000	-20.40	-36.02	-56.42	-13.00	-43.42	peak	Р

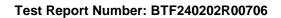




В	an	d:		4	Te chan		Midd	le		est de:		20M	Polarization:	V
				-				l _						
No.	.	Freque (MH:	-		ding Bm)		tor B)	Lev (dB		Limi (dBm		Margir (dB)	Detector	P/F
_	\dashv	•		_				_		_	_		+	
1	\dashv	3465.0	000	-28	.90	-37	.19	-66.	09	-13.0	U	-53.09	peak	Р
2		5197.5	500	-22	.84	-34	.90	-57.	74	-13.0	0	-44.74	peak	Р
3		6930.0	000	-17	.91	-36	.02	-53.	93	-13.0	0	-40.93	peak	Р

Bar	nd:	4	Te chan		High	est		est ode:		20M	Polarization:	
No.	Frequency (MHz)		ding Bm)		tor B)	Lev (dB		Limi (dBm		Margin (dB)	Detector	P/F
1	3495.000	-30	.73	-37	.08	-67.	.81	-13.0	0	-54.81	peak	Р
2	5242.500	-26	.32	-34	.79	-61.	.11	-13.0	0	-48.11	peak	Р
3	6990.000	-21	.05	-35	.91	-56.	96	-13.0	0	-43.96	peak	Р

Bar	nd:		4	chan	st nel:	High	est		est ode:	20M	Polar	ization:	1
No.	Freque (MHz	•	Read (dB			tor B)	Lev (dB		Limit (dBm)	Margi (dB)	n De	tector	P/F
1	3495.0	00	-28.	.22	-37	.08	-65.	30	-13.00	-52.30)	peak	Р
2	5242.5	00	-22.	.16	-34	.79	-56.	95	-13.00	-43.95	;	peak	Р
3	6990.0	00	-17.	.23	-35	.91	-53.	14	-13.00	-40.14		peak	Р

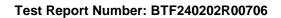




Bar	nd:		5	Te chan		Lowe	st		est de:	10M	Po	olarization:]
									1				
No.	Freque (MH:	-		ding Bm)		tor B)	Lev (dB		Limit (dBm)	Marg (dB		Detector	P/F
1	1649.4	100	-24	.97	-38	.08	-63.		-13.00	-50.0)5	peak	Р
2	2474.	100	-15	.49	-37	.15	-52.	64	-13.00	-39.6	64	peak	Р
3	3298.8	300	-27	.45	-37	.03	-64.	48	-13.00	-51.4	18	peak	Р

Bar	nd:	5	Tes chann		Lowes	st I	est ode:	10M I	Polarization:	7
No.	Frequence (MHz)	-	ding Bm)	Fac	tor B)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1649.400	-29	3.32	-38	.08	-67.40	-13.00	-54.40	peak	Р
2	2474.100	-23	3.26	-37	.15	-60.41	-13.00	-47.41	peak	Р
3	3298.800	0 -18	3.33	-37	.03	-55.36	-13.00	-42.36	peak	Р

Bar	nd:		5	Te chan	st nel:	Midd	le		est de:	10M	Po	larization:	Н
No.	Freque	ency	Read	ding	Fac	tor	Lev	e1	Limit	Marg	in	Detector	P/F
NO.	(MH:	z)	(dI	Bm)	(d	B)	(dB	m)	(dBm)	(dB))	Detector	Г/Г
1	1673.0	000	-25	.83	-37	.97	-63.	80	-13.00	-50.8	0	peak	Р
2	2509.	500	-16	.35	-37	.04	-53.	39	-13.00	-40.3	9	peak	Р
3	3346.0	000	-28	.31	-36	.92	-65.	23	-13.00	-52.2	3	peak	Р

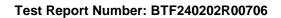




Ban	nd:	5	Te chan		Midd	le l		est de:	10M	Polarization:	V
	F	D	12	P	.	Laura		T ii 4	V		<u> </u>
No.	Frequency (MHz)	Read (dE	iing Sm)		tor B)	Level (dBm)	- 1	Limit (dBm)	Margin (dB)	Detector	P/F
1	1673.000	-28	.90	-37	.97	-66.87	7	-13.00	-53.87	peak	Р
2	2509.500	-22	.84	-37	.04	-59.88	3	-13.00	-46.88	peak	Р
3	3346.000	-17.	.91	-36	.92	-54.83	3	-13.00	-41.83	peak	Р

Bar	nd:		5	Te chan		High	est		est de:		10M	Polarization:	H
	Freque	ency	Read	ding	Fac	tor	Lev	e1	Limi	t	Margin		D /D
No.	(MH	z)	l .	Bm)	(d	IB)	(dB	m)	(dBm)	(dB)	Detector	P/F
1	1696.6	300	-26	.48	-37	.86	-64.	.34	-13.0	0	-51.34	peak	Р
2	2544.9	900	-17	.00.	-36	6.93	-53.	.93	-13.0	0	-40.93	peak	Р
3	3393.2	200	-28	.96	-36	3.81	-65.	77	-13.0	0	-52.77	peak	Р

Band	d:	5		est nel:	I	lighest	Test mode:		20M		Po	larization:		V
	No.		uency IHz)	Readi (dBm		Factor (dB)	Level (dBm)		mit Bm)	Mar (d	_	Detector	P/F	
	1	169	6.600	(dBm) -28.22		-37.86	-66.08	-1	3.00	-53	.08	peak	Р	
	2	254	4.900	-22.1	6	-36.93	-59.09	-1	3.00	-46	.09	peak	Р	
	3	339	3.200	-17.2	3	-36.81	-54.04	-1	3.00	-41	.04	peak	Р	
		•		•			•							

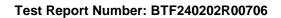




Bar	nd:	7 Te	st nel: Lowe	st	est de:	10M P	olarization:	Н
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level	Limit	Margin (dB)	Detector	P/F
1	5005.000	-15.36	-36.90	-52.26	-25.00	-27.26	peak	Р
2	7507.500	-24.32	-34.96	-59.28	-25.00	-34.28	peak	Р
3	10010.000	-22.52	-35.53	-58.05	-25.00	-33.05	peak	Р

Bar	nd:	7	Te chan	st nel:	Lowe	st		est de:	10M	Polarization:	1
No.	Frequency (MHz)	Read (dE	ling Sm)		tor B)	Leve (dBm		Limit (dBm)	Margin	Detector	P/F
1	5005.000	-14	.67	-36	.90	-51.5	7	-25.00	-26.57	peak	Р
2	7507.500	-23	.63	-34	.96	-58.59	9	-25.00	-33.59	peak	Р
3	10010.000	-21	.83	-35	.53	-57.30	6	-25.00	-32.36	peak	Р

Bar	nd:	7	nnel: Mid	ld le l	est ode:	10M P	olarization:	I
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	5070.000	-16.57	-36.79	-53.36	-25.00	-28.36	peak	Р
2	7605.000	-25.53	-34.85	-60.38	-25.00	-35.38	peak	Р
3	10140.000	-23.73	-35.42	-59.15	-25.00	-34.15	peak	Р

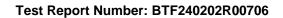




Ban	d:	7	7	Te chan	st nel:	Midd	le		est de:		10M	Po	larization:	V
No.	Frequer (MHz	-		ding Sm)		tor B)	Lev (dE		Limi (dBm		Margi (dB)	n	Detector	P/F
1	5070.0	00	-14	.13	-36	.79	-50	92	-25.0	0	-25.92	2	peak	Р
2	7605.0	00	-23	.09	-34	.85	-57	.94	-25.0	0	-32.94	1	peak	Р
3	10140.0	000	-21	.29	-35	.42	-56	.71	-25.0	0	-31.71	1	peak	Р

Bar	nd:	7	7	Te chan		High	est		est ode:	10M	Po	olarization:	
No.	Frequer (MHz		Read (dE	ling Bm)		tor (B)	Lev (dB		Limit			Detector	P/F
1	5135.0	00	-16	.82	-36	6.69	-53.	51	-25.00	-28.5	51	peak	Р
2	7702.5	00	-25	.78	-34	.75	-60.	53	-25.00	-35.5	53	peak	Р
3	10270.0	000	-23	.98	-35	.32	-59.	30	-25.00	-34.3	30	peak	Р

Bar	nd:	7	Test channel:	Highe	est.	est ode:	10M I	Polarization:	,
No.	Frequency (MHz)	Readi (dBm		ctor	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	5135.000	-15.5	3 -3	6.69	-52.22	-25.00	-27.22	peak	Р
2	7702.500	-24.4	9 -3	4.75	-59.24	-25.00	-34.24	peak	Р
3	10270.000	-22.6	9 -3	5.32	-58.01	-25.00	-33.01	peak	Р

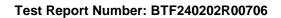




Ban	nd:	1	.2	Te chan		Lowe	st		est de:		10M	Pol	larization:	Н
No.	Freque	ency	Read	ding	Fac	tor	Lev	e1	Limi	t	Margi	n	Detector	P/F
NO.	(MH	z)	(dl	3m)	(d	B)	(dB	m)	(dBm)	(dB)		Detector	1/1
1	3701.	400	-19	.85	-37	.11	-56.	96	-13.0	0	-43.96	5	peak	Р
2	5552.	100	-19	.74	-34	.23	-53.	97	-13.0	0	-40.97	,	peak	Р
3	7402.	800	-20	.47	-36	.23	-56.	70	-13.0	0	-43.70)	peak	Р

Bar	nd:	1	.2	Te chan		Lowe	est		est de:		10M F	olarization:	1
No.	Freque (MHz	•	Read (dE	ling Bm)		tor B)	Lev (dB		Limi (dBm		Margin (dB)	Detector	P/F
1	3701.4	00	-17	.14	-37	.11	-54.	25	-13.0	0	-41.25	peak	Р
2	5552.1	00	-24	.32	-34	.23	-58.	.55	-13.0	0	-45.55	peak	Р
3	7402.8	800	-22	.11	-36	.23	-58.	34	-13.0	0	-45.34	peak	Р

Ban	d:	1	2	Te: chanı		Midd	le		est de:		10M	Po1	larization:	I
No.	Freque	ency	Read	ding	Fac	tor	Lev	re1	Limi	t	Margi	n	Detector	P/F
NO.	(MH	z)	(dI	Bm)	(d	B)	(dE	Bm)	(dBn	1)	(dB)		Detector	1/1
1	3765.0	000	-20	.71	-37	.00.	-57	.71	-13.0	0	-44.71	1	peak	Р
2	5647.5	500	-20	.60	-34	.12	-54	.72	-13.0	0	-41.72	2	peak	Р
3	7530.0	000	-21	.33	-36	.12	-57	.45	-13.0	0	-44.45	5	peak	Р

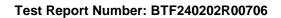




	Ban	d:	1	.2	Te chan		Midd	lle		est de:		10M I	Polarization:	V
	No.	Freque (MH:	•	Read	ling Sm)		tor B)	Lev (dB		Limi (dBm		Margin	Detector	P/F
ŀ	1	3765.0		-16	-	-37	-	-53.	-	-13.0		-40.72	peak	Р
Γ	2	5647.5	500	-23	.90	-34	.12	-58.	02	-13.0	0	-45.02	peak	Р
Γ	3	7530.0	000	-21	.69	-36	.12	-57.	81	-13.0	0	-44.81	peak	Р

Bar	nd:	1	.2	Te chan		High	est		est ode:		10M	Polarization:	
No.	Freque (MHz			ling Bm)		tor B)	Lev (dB		Limi (dBm		Margin (dB)	Detector	P/F
1	3828.6	00	-21	.36	-36	.89	-58.	25	-13.0	0	-45.25	peak	Р
2	5742.9	00	-21	.25	-34	.01	-55.	26	-13.0	0	-42.26	peak	Р
3	7657.2	00	-21	.98	-36	.01	-57.	99	-13.0	0	-44.99	peak	Р

Ban	d:]	12	Te chan	st nel:	High	est		est ode:		10M	Polarization:	V
	Freque	encv	Read	ling	Fac	tor	Leve	-1	Limit	t.	Margin		
No.	(MH	•		Sm)		B)	(dBr		(dBm)	- 1	(dB)	Detector	P/F
1	3828.6	600	-16	.04	-36	.89	-52.9	93	-13.00	0	-39.93	peak	Р
2	5742.9	900	-23	.22	-34	.01	-57.2	23	-13.00	0	-44.23	peak	Р
3	7657.2	200	-21	.01	-36	.01	-57.0)2	-13.00)	-44.02	peak	Р

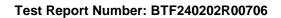




Ban	ıd:	1	7	Te chan		Lowe	st		est de:		10M	Polarization:	H
													,
No.	Freque	ency	Read	ding	Fac	tor	Lev	e1	Limit	t	Margir	Detector	P/F
NO.	(MH	z)	(dl	Bm)	(d	B)	(dB	m)	(dBm)		(dB)	Detector	Г/Г
1	3701.4	400	-19	.85	-37	.11	-56.	96	-13.00)	-43.96	peak	Р
2	5552.	100	-19	.74	-34	.23	-53.	97	-13.00)	-40.97	peak	Р
3	7402.	800	-20	.47	-36	.23	-56.	70	-13.00)	-43.70	peak	Р

Bar	nd:	17	Te chan		Lowe	est		est de:	10M	Po	olarization:	1
No.	Frequency (MHz)		ding Sm)		tor B)	Lev (dB		Limit	Marg:		Detector	P/F
1	3701.400	-17	.14	-37	.11	-54.	25	-13.00	-41.2	5	peak	Р
2	5552.100	-24	.32	-34	.23	-58.	55	-13.00	-45.5	5	peak	Р
3	7402.800	-22	.11	-36	.23	-58.	34	-13.00	-45.3	4	peak	Р

Bar	nd:	1	7	Te chan		Midd	le l		est de:	10M	Pol	larization:	I
No.	Freque	-	Read (dl	ding Sm)		tor B)	Leve (dBi		Limit (dBm)	Margi (dB)	n	Detector	P/F
1	3765.0	000	-20	.71	-37	.00	-57.	71	-13.00	-44.71	1	peak	Р
2	5647.	500	-20	.60	-34	.12	-54.	72	-13.00	-41.72	2	peak	Р
3	7530.0	000	-21	.33	-36	.12	-57.4	45	-13.00	-44.45	5	peak	Р

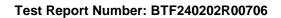




Ban	id:	1	.7	chan	st nel:	Midd	l1e		est de:	10M	Po	olarization:	7
			-							-1			
No.	Freque	ency	Read	ling	Fac	tor	Lev	e1	Limit	Margi	n	Detector	P/F
NO.	(MH	z)	(dI	Bm)	(d	B)	(dB	Bm)	(dBm)	(dB)		Detector	I/I
1	3765.0	000	-16	.72	-37	.00	-53.	.72	-13.00	-40.7	2	peak	Р
2	5647.5	500	-23	.90	-34	.12	-58.	.02	-13.00	-45.0	2	peak	Р
3	7530.0	000	-21	.69	-36	.12	-57.	.81	-13.00	-44.8	1	peak	Р

Bar	nd:	17	Te: chan		High	est		est ode:	10M	Polarization:	
No.	Frequenc (MHz)		ding Bm)		tor B)	Leve (dBn		Limit (dBm)	Margin	Detector	P/F
1	3828.600	-21	.36	-36	.89	-58.2	5	-13.00	-45.25	peak	Р
2	5742.900	-21	.25	-34	.01	-55.2	6	-13.00	-42.26	peak	Р
3	7657.200	-21	.98	-36	.01	-57.9	9	-13.00	-44.99	peak	Р

Bar	nd:]	17	Te chan	st nel:	High	est		est ode:	10M	Ро	larization:	,
No.	Freque (MH:	-	Read (dE		Fac	tor B)	Lev (dB		Limit	Margi (dB)	n	Detector	P/F
1	3828.6	600	-16	.04	-36	.89	-52.	93	-13.00	-39.93	3	peak	Р
2	5742.9	900	-23	.22	-34	.01	-57.	23	-13.00	-44.23	3	peak	Р
3	7657.2	200	-21	.01	-36	.01	-57.	02	-13.00	-44.02	2	peak	Р

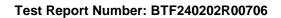




Ban	d:	26	(a)	Te chan		Lowe	st		est de:		15M	Polarization:	I
No.	Freque (MH:	-		ding Bm)		tor B)	Lev (dB		Limi (dBm	- 1	Margin (dB)	Detector	P/F
1	1629.4	100	-23	.50	-37	.35	-60.	85	-13.0	0	-47.85	peak	Р
2	2444.	100	-24	.50	-37	.23	-61.	73	-13.0	0	-48.73	peak	Р
3	3258.8	300	-26	.79	-36	.77	-63.	56	-13.0	0	-50.56	peak	Р

Ва	ınd:	26	(a)	Te chan		Lowe	est		est de:	15M	Po	larization:	V
			1_				1 _	_		1			
No.	Freque (MH	•		ding Sm)		tor B)	Lev (dF	vel 3m)	Limit (dBm)	Margi (dB)		Detector	P/F
1	1629.	400	-28	.11	-37	.35	-65	.46	-13.00	-52.46	6	peak	Р
2	2444.	100	-27	.15	-37	.23	-64	.38	-13.00	-51.38	В	peak	Р
3	3258.	800	-28	.71	-36	.77	-65	.48	-13.00	-52.48	8	peak	Р

Ban	d:	26	(a)	Te chan		Midd	le		est de:		15M	Polarization:	Н
					_		-	_					
No.	Freque (MH:	-		ding Bm)		tor B)	Lev (dB		Limi (dBm		Margin (dB)	Detector	P/F
1	1638.0	000	-24	.36	-37	.24	-61.	60	-13.0	0	-48.60	peak	Р
2	2457.0	000	-25	.36	-37	.12	-62.	48	-13.0	0	-49.48	peak	Р
3	3276.0	000	-27	.65	-36	6.66	-64.	31	-13.0	0	-51.31	peak	Р

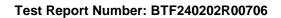




Bar	nd:	26 (a)	Tes chann		Middl	e	est ode:	15M	Polarization:	v
No.	Frequen (MHz)		ding Bm)	Fact	- 1	Level	Limit	Margin (dB)	n Detector	P/F
1	1638.00	0 -27	.69	-37.	24	-64.93	-13.00	-51.93	peak	Р
2	2457.00	00 -26	5.73	-37.	12	-63.85	-13.00	-50.85	peak	Р
3	3276.00	0 -28	3.29	-36.	66	-64.95	-13.00	-51.95	peak	Р

Bar	nd:	26	(a)	Te chan		High	est		est ode:	15M	Po1	arization:	
No.	Freque	_	Read	_		tor	Lev		Limit	Margi	n I	Detector	P/F
1	(MH: 1646.6		(dF -25	3m) .01		B) 7.13	(dBi		(dBm) -13.00	(dB) -49.14	_	peak	P
2	2469.9	900	-26	.01	-37	.01	-63.0	02	-13.00	-50.02	2	peak	Р
3	3293.2	200	-28	.30	-36	.55	-64.	85	-13.00	-51.85	,	peak	Р

Baı	nd:	26	(a)	Te chan	st nel:	High	est		est ode:	15M	Polarization:	7
No.	Freque (MH:	-	Read (dE	_		tor B)	Lev (dB		Limuit (dBm)	Margir (dB)	Detector	P/F
1	1646.6	300	-27	.01	-37	.13	-64.	14	-13.00	-51.14	peak	Р
2	2469.9	900	-26	.05	-37	.01	-63.	06	-13.00	-50.06	peak	Р
3	3293.2	200	-27	.61	-36	.55	-64.	16	-13.00	-51.16	peak	Р





Bar	nd:	26	(b)	Te chan	st nel:	Lowe	st		est de:	15M	Po	larization:	ŀ
			-				-			,			I
No.	Freque	ency	Read	ling	Fac	tor	Lev	e1	Limit	Margi	n	Detector	P/F
NO.	(MH	z)	(dI	3m)	(d	B)	(dB	m)	(dBm)	(dB)		Detector	I/I
1	1649.4	100	-25	.50	-37	.35	-62.	85	-13.00	-49.85	5	peak	Р
2	2474.	100	-23	.79	-37	.23	-61.	02	-13.00	-48.02	2	peak	Р
3	3298.8	300	-22	.35	-36	.77	-59.	12	-13.00	-46.12	2	peak	Р

Bar	nd:	26	(b)	Te chan		Lowe	st		est de:		15M	Polariza	tion:	
No.	Freque (MHz	_		ling Bm)		tor B)	Lev (dB		Limi (dBm		Margir (dB)	Dete	ctor	P/F
1	1649.4	100	-25	.74	-37	.35	-63.	.09	-13.0	0	-50.09	pe	ak	Р
2	2474.1	100	-24	.78	-37	.23	-62.	.01	-13.0	0	-49.01	pe	ak	Р
3	3298.8	300	-24	.00	-36	.77	-60.	.77	-13.0	0	-47.77	pe	ak	Р

Bar	nd:	26	(b)		st nel:	Midd	l1e		est de:		15M	Polarization:	Н
			1										
No.	Freque (MHz	-	Read (dE	ling Bm)	Fac (d	tor B)	Lev (dB		Limi (dBm		Margir (dB)	Detector	P/F
1	1673.0	000	-26	.36	-37	.24	-63.	60	-13.0	0	-50.60	peak	Р
2	2509.5	500	-24	.65	-37	.12	-61.	77	-13.0	0	-48.77	peak	Р
3	3346.0	000	-23	.21	-36	.66	-59.	87	-13.0	0	-46.87	peak	Р

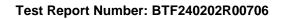




Ва	nd:	26	(b)	Te chan	st nel:	Midd	lle		est de:	1	15M	Polarization:	V
							-						
No.	Freque	ency	Read	ling	Fac	tor	Lev	e1	Limi	t	Margin	Detector	P/F
NO.	(MH	z)	(dI	3m)	(d	B)	(dB	m)	(dBm))	(dB)	Detector	F/T
1	1673.0	000	-25	.32	-37	.24	-62.	56	-13.00)	-49.56	peak	Р
2	2509.	500	-24	.36	-37	.12	-61.	48	-13.00)	-48.48	peak	Р
3	3346.0	000	-23	.58	-36	.66	-60.	24	-13.00)	-47.24	peak	Р

Ban	ıd:	26	(b)	Te chan		High	est	_	est ode:	15M	I P	olarization:	
No.	Freque (MH:	-		ding Bm)		tor B)	Lev (dB		Limit (dBm)		rgin (dB)	Detector	P/F
1	1696.6	600	-27	.01	-37	.13	-64.	.14	-13.00) -5	51.14	peak	Р
2	2544.9	900	-25	.30	-37	.01	-62.	.31	-13.00) -4	19.31	peak	Р
3	3393.2	200	-23	.86	-36	.55	-60.	41	-13.00) -4	7.41	peak	Р

Bar	nd:	26	(b)	Te chan	-	High	est		est ode:	15M	Polarization:	1
No.	Freque	-	Read (dl	ling Bm)		tor B)	Leve (dBi		Limit (dBm)	Margin	Detector	P/F
1	1696.6	300	-24	.64	-37	.13	-61.	77	-13.00	-48.77	peak	Р
2	2544.9	900	-23	.68	-37	.01	-60.	69	-13.00	-47.69	peak	Р
3	3393.2	200	-22	.90	-36	.55	-59.4	45	-13.00	-46.45	peak	Р

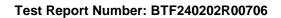




Ban	d:	6	66	Te chan		Lowe	st		est de:		20M	Polarization:	H
No.	Freque (MH:	-		ding Sm)		tor B)	Lev (dB		Limi (dBm		Margir (dB)	Detector	P/F
1	3421.4	100	-27	.81	-37	.35	-65.	16	-13.0	0	-52.16	peak	Р
2	5132.	100	-23	.39	-34	.80	-58.	19	-13.0	0	-45.19	peak	Р
3	6842.8	300	-19	.06	-36	.23	-55.	29	-13.0	0	-42.29	peak	Р

Ban	d:	6	56	Te chan		Lowe	est		est de:	2	20M F	Polarization:	1
No.	Freque (MH:	-		ding Bm)		tor B)	Lev (dB		Limit (dBm)	- 1	Margin (dB)	Detector	P/F
1	3421.4	400	-27	.98	-37	.35	-65.	33	-13.00)	-52.33	peak	Р
2	5132.1	100	-24	.15	-34	.80	-58.	95	-13.00)	-45.95	peak	Р
3	6842.8	300	-20	.16	-36	.23	-56.	39	-13.00)	-43.39	peak	Р

Ban	d:	ib l	est nnel: Mide	ile I	est ode:	20M I	Polarization:	ŀ
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3490.000	-28.67	-37.24	-65.91	-13.00	-52.91	peak	Р
2	5235.000	-24.25	-34.69	-58.94	-13.00	-45.94	peak	Р
3	6980.000	-19.92	-36.12	-56.04	-13.00	-43.04	peak	Р

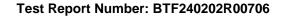




Bar	nd:	6	66	Te chan	st nel:	Midd	lle		est de:	20M	Po	olarization:	7
No.	Freque (MH:	•	Read (dE	_	Fac	tor B)	Leve (dBn		Limit			Detector	P/F
1	3490.0	000	-27	.56	-37	.24	-64.8	0	-13.00	-51.8	0	peak	Р
2	5235.0	000	-23	.73	-34	.69	-58.4	2	-13.00	-45.4	2	peak	Р
3	6980.0	000	-19	.74	-36	.12	-55.8	6	-13.00	-42.8	6	peak	Р

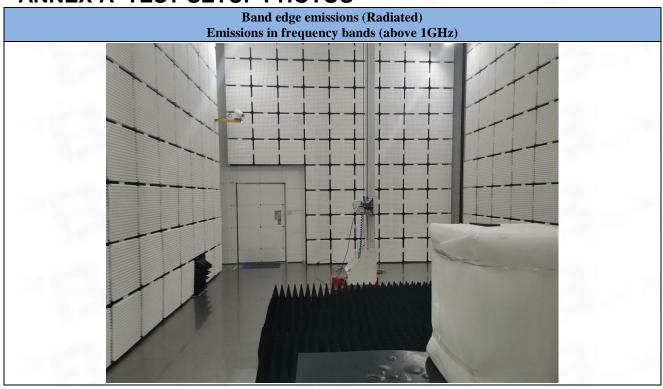
Bar	nd:	66	Te chan		High	est		est de:	20M	Polarization:	
No.	Frequen (MHz)		ding Bm)		tor B)	Leve (dBm		Limit (dBm)	Margin (dB)	Detector	P/F
1	3558.60	0 -2	9.32	-37	.13	-66.4	5	-13.00	-53.45	peak	Р
2	5337.90	0 -2	4.90	-34	.58	-59.4	В	-13.00	-46.48	peak	Р
3	7117.20	0 -2	0.57	-36	.01	-56.5	В	-13.00	-43.58	peak	Р

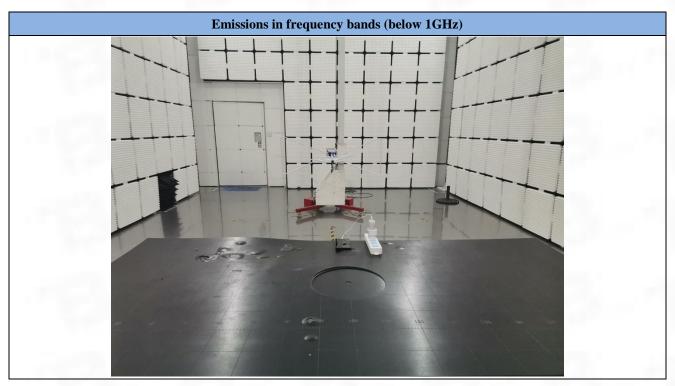
Baı	nd:	6	66	Te chan		High	est		est ode:	20M	Polarization:	1
No.	Freque (MH:	•	Read (dF	ding Sm)		tor B)	Lev (dB		Limit	Margin	Detector	P/F
1	3558.6	600	-26	.88	-37	.13	-64.	.01	-13.00	-51.01	peak	Р
2	5337.9	900	-23	.05	-34	.58	-57.	63	-13.00	-44.63	peak	Р
3	7117.2	200	-19	.06	-36	.01	-55.	.07	-13.00	-42.07	peak	Р

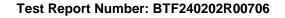




ANNEX A TEST SETUP PHOTOS



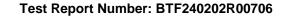






ANNEX B EUT PHOTOS

Please refer to the test report NO. BTF240202R00702







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-- END OF REPORT--