

RF Test Report

For

Applicant Name: FOXX Development Inc.

Address: 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

EUT Name: Smart Phone

Brand Name: MIRO, FOXXD, AIRVOICE, FOXXD HTH

Model Number: C67

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: BTF240730R00506

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: 2AQRM-C67

Test Conclusion: Pass

Test Date: 2024-07-30 to 2024-08-26

Date of Issue: 2024-09-04

Prepared By: Sunny ary

Sunny Qin / Project Engineer

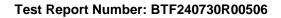
Date: 2024-09-04

Approved By:

Ryan &J / EMC Manager

Date: 2024-09-04

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	2024-09-04	Original			
Note:	Once the revision has k	Once the revision has been made, then previous versions reports are invalid.			

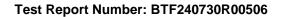




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	5.7 Field Strength of Spurious Radiation		5.6		
			5.7		
	ANNEX A TEST SETUE FITOTUS	ΑN	NEX A	TEST SETUP PHOTOS	



1. Introduction

1.1 Identification of Testing Laboratory

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

1.2 Identification of the Responsible Testing Location

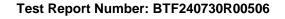
Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Description:	All measurement facilities used to collect the measurement data are located at F101,201 and 301, 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:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.2 Manufacturer Information

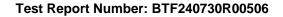
Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.3 Factory Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.4 General Description of Equipment under Test (EUT)

EUT Name	Smart Phone
Under Test Model Name	C67
Series Model Number:	N/A
Description of Model name differentiation:	N/A
Power Supply:	DC 5V from adaptor or DC 3.87V from battery
Power Adaptor:	Input: 100-240V 50/60Hz 0.3A Output: 5.0V2.0A 10W Model: HJ-0502000W2-US
Battery parameter:	Capacity: 4900mAh 18.963Wh Nominal voltage: 3.87V Max charging voltage: 4.45V

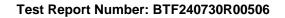




2.5 Technical Information

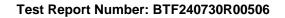
The requirement for the following technical information of the EUT was tested in this report:

	GSM/GPRS/EGP	GSM/GPRS/EGPRS 850/1900MHz		
	WCDMA/HSDPA/HSUPA Band 2/4/5			
Operating Bands	FDD LTE Band			
	2/4/5/7/12/13/17/2	25/26a/26b/41/66/71		
	GSM/GPRS	GMSK		
	EGPRS	8PSK		
	WCDMA	QPSK		
Modulation Type	LICDDA/LICLIDA	QPSK		
	HSDPA/HSUPA	16QAM		
	LTE	QPSK		
	LIC	16QAM		
	GSM/GPRS/EGP	PRS 850: 824.2 MHz ~ 848.8 MHz		
	GSM/GPRS/EGP	PRS 1900: 1850.2 MHz ~ 1909.8 MHz		
	WCDMA/HSDPA	/HSUPA Band 2: 1852.4 MHz ~ 1907.6 MHz		
	WCDMA/HSDPA	WCDMA/HSDPA/HSUPA Band 4: 1712.4 MHz ~ 1752.6 MHz		
	WCDMA/HSDPA	WCDMA/HSDPA/HSUPA Band 5: 826.4 MHz ~ 846.6 MHz		
	FDD LTE Band 2	FDD LTE Band 2: 1850.7 MHz ~ 1909.3 MHz		
	FDD LTE Band 4	FDD LTE Band 4: 1710.7 MHz ~ 1754.3 MHz		
	FDD LTE Band 5	FDD LTE Band 5: 824.7 MHz ~ 848.3 MHz		
TX Frequency Range	FDD LTE Band 7	FDD LTE Band 7: 2502.5 MHz ~ 2567.5 MHz		
	FDD LTE Band 1:	2: 699.7 MHz ~ 715.3 MHz		
	FDD LTE Band 1	3:779.5 MHz ~ 784.5 MHz		
	FDD LTE Band 1	7:706.5 MHz ~ 713.5 MHz		
	FDD LTE Band 2	5: 1850.7 MHz ~ 1914.3 MHz		
	FDD LTE Band 2	FDD LTE Band 26:814.7 MHz ~ 848.3 MHz		
	TDD LTE Band 4	TDD LTE Band 41:2498.5 MHz ~2687.5 MHz		
	FDD LTE Band 6	FDD LTE Band 66: 1710.7 MHz ~ 1779.3 MHz		
	FDD LTE Band 7	FDD LTE Band 71:665.5 MHz ~ 695.5 MHz		
	GSM/GPRS/EGP	GSM/GPRS/EGPRS 850: 869.2 MHz ~ 893.8 MHz		
	GSM/GPRS/EGP	GSM/GPRS/EGPRS 1900: 1930.2 MHz ~ 1989.8 MHz		
	WCDMA/HSDPA	WCDMA/HSDPA/HSUPA Band 2: 1932.4 MHz ~ 1987.6 MHz		
	WCDMA/HSDPA	WCDMA/HSDPA/HSUPA Band 4: 2112.4 MHz ~ 2152.6 MHz		
Rx Frequency Range	WCDMA/HSDPA	WCDMA/HSDPA/HSUPA Band 5: 871.4 MHz ~ 891.6 MHz		
	FDD LTE Band 2	FDD LTE Band 2: 1930.7 MHz ~ 1989.3 MHz		
	FDD LTE Band 4	FDD LTE Band 4: 2110.7 MHz ~ 2154.3 MHz		
	FDD LTE Band 5	FDD LTE Band 5: 869.7 MHz ~ 893.3 MHz		
	FDD LTE Band 7	: 2502.5 MHz ~ 2567.5 MHz		





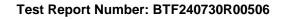
	FDD LTE Band 12: 729.7 MHz ~ 745.3 MHz
	FDD LTE Band 13: 748.5 MHz ~ 753.5 MHz
	FDD LTE Band 17:736.5 MHz ~ 743.5 MHz
	FDD LTE Band 25: 1930.7 MHz ~ 1994.3 MHz
	FDD LTE Band 26: 859.7 MHz ~893.3 MHz
	TDD LTE Band 41: 2498.5 MHz ~2687.5 MHz
	FDD LTE Band 66: 2110.7 MHz ~ 2179.3 MHz
	FDD LTE Band 71:706.5 MHz ~ 713.5 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
	FDD LTE Band 2: 3 FDD LTE Band 4: 3
	FDD LTE Band 4. 3 FDD LTE Band 5: 3
Power Class	FDD LTE Band 5: 3 FDD LTE Band 7: 3
	FDD LTE Band 7: 3 FDD LTE Band 12: 3
	FDD LTE Band 13: 3 FDD LTE Band 17: 3
	FDD LTE Band 17: 3 FDD LTE Band 25: 3
	FDD LTE Band 25: 3 FDD LTE Band 26: 3
	FDD LTE Band 41: 3 FDD LTE Band 66: 3
Multiplet Class	FDD LTE Band 71:3
Multislot Class	GSM/GPRS/EGPRS: 12
Antenna Type	FPC Antenna





	GSM850	GSM1900	WCDMA B2	WCDMA B4	
	-1.15dBi	0.91dBi	0.91dBi	0.64dBi	
	WCDMA B5	LTE B2	LTE B4	LTE B5	
	-1.15dBi	0.91Bi	0.64dBi	-1.15dBi	
Antenna Gain	LTE B7	LTE B12	LTE B13	LTE B17	
, and and	1.78dBi	-1.85dBi	-1.54dBi	-1.83dBi	
	LTE B25	LTE B26	LTE B41	LTE B66	
	0.82dBi	-1.16dBi	1.75dBi	0.66Bi	
	LTE B71				
	-0.13dBi				
	GSM850: 29.27dE				
	GSM1900: 30.08d				
	WCDMA Band II:22.24dBm				
	WCDMA Band IV: 21.86dBm				
	WCDMA Band V: 17.99dBm				
	FDD LTE Band 2: 23.07dBm				
	FDD LTE Band 4: 22.04dBm				
	FDD LTE Band 5:	18.89dBm			
The Max RF Output	FDD LTE Band 7:	25.19dBm			
Power (EIRP/ERP)	FDD LTE Band 12	2: 18.04dBm			
	FDD LTE Band 13: 18.06Bm				
	FDD LTE Band 17: 18.15dBm				
	FDD LTE Band 25: 22.57dBm				
	FDD LTE Band 26a: 18.85dBm				
	FDD LTE Band 26b: 18.78dBm				
	TDD LTE Band 41: 26.50dBm				
	FDD LTE Band 66: 22.05dBm				
	FDD LTE Band 71	: 17.91dBm			

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

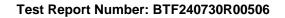




3. Summary of Test Results

3.1 Test Standards

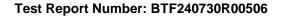
No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 Subpart H	Cellular Radiotelephone Service
3	47 CFR Part 24 Subpart E	Broadband PCS
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	47 CFR Part 90	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) 27.50 90.635(b)	Pass	
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	

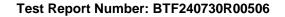




3.3 Uncertainty of Test

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

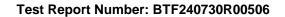
During the measurement, the environmental conditions were within the listed ranges:

During the measurement, the environmental conditions were within the listed ranges.					
	NV (Normal Voltage)	3.87 V			
Test Voltage of the EUT	LV (Low Voltage)	3.413 V			
G .	HV (High Voltage)	4.257 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	scription 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	Programmable stant temperature ZZCKONG ZZ-K02A 2		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	AL 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	
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

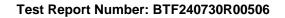
4.3 Test Auxiliary Equipment

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





Test Items	Test Mode		Test Channel	
restilems	r est iviode	LCH	MCH	HCH
	GPRS 850	V	V	V
	GPRS 1900	V	V	V
	EGPRS 850	V	V	V
	EGPRS 1900	V	V	V
	WCDMA Band 2	V	V	V
	WCDMA Band 4	V	V	V
Effective (Isotropic) Radiated Power	WCDMA Band 5	V	V	V
Nadiated Fower	HSDPA Band 2	V	V	V
	HSDPA Band 4			
	HSDPA Band 5	V	V	V
	HSUPA Band 2	V	V	V
	HSUPA Band 4	V	V	V
	HSUPA Band 5	V	V	V
	GPRS 850	V	V	V
	GPRS 1900	V	V	٧
	EGPRS 850	V	V	V
	EGPRS 1900	V	٧	V
	WCDMA Band 2	V	V	٧
	WCDMA Band 4	V	V	V
Spurious Emission at Antenna Terminals	WCDMA Band 5	V	V	V
Antenna Terminais	HSDPA Band 2	V	V	V
	HSDPA Band 4	V	V	V
	HSDPA Band 5	V	V	V
	HSUPA Band 2	V	V	٧
	HSUPA Band 4	V	V	V
	HSUPA Band 5	V	V	V
	GPRS 850	V	V	V
	GPRS 1900	V	V	V
	EGPRS 850	V	V	V
Fig. 1.00 constant	EGPRS 1900	V	V	V
Field Strength of Spurious Radiation	WCDMA Band 2	V	V	V
Spanous Radiation	WCDMA Band 4	V	V	٧
	WCDMA Band 5	V	V	V
	HSDPA Band 2	V	V	V
	HSDPA Band 4	V	V	V

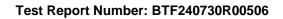




HSDPA Band 5	٧	٧	V
HSUPA Band 2	٧	٧	V
HSUPA Band 4	٧	V	V
HSUPA Band 5	٧	٧	V

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	nel 128 nnel 190 nel 251 nel 512 nnel 661 nel 810 nel 9262 nnel 9400 nel 9538 nel 1312 nnel 1413 nel 1513 nel 4132	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





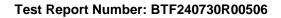
LTE		Baı	ndwid	th (Mł	Hz)		Modula	ition Type		RB#		Te	est Chan	nel
Band	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
					Effe	ective	(Isotropic) Radiated F	Power					
2	V	V	V	V	٧	٧	V	V	V	V	٧	٧	V	V
4	V	V	V	٧	٧	٧	V	V	٧	٧	٧	٧	V	V
5	V	٧	V	V	n	n	V	V	٧	٧	٧	٧	V	V
7	n	n	V	V	٧	٧	V	V	٧	٧	٧	٧	V	V
12	V	٧	V	٧	n	n	V	٧	٧	٧	٧	٧	٧	٧
13	n	n	V	V	n	n	٧	V	٧	٧	٧	٧	V	٧
17	n	n	V	V	n	n	V	V	٧	٧	٧	٧	V	٧
25	V	٧	V	V	٧	٧	V	V	٧	٧	٧	٧	V	٧
26	V	٧	V	V	٧	n	V	V	٧	٧	٧	٧	V	V
41	n	n	V	V	V	n	V	V	٧	V	٧	٧	V	V
66	V	V	٧	٧	٧	٧	V	V	٧	٧	٧	٧	٧	V
71	n	n	٧	V	٧	٧	V	V	٧	٧	٧	٧	V	V
						Pe	ak to Ave	rage Ratio		•				
2	V	V	V	V	٧	٧	V	V	V	٧	٧	٧	V	V
4	V	V	٧	V	٧	٧	٧	V	٧	٧	٧	٧	V	V
5	V	٧	٧	V	n	n	V	V	٧	٧	٧	٧	V	V
7	n	n	٧	٧	٧	٧	V	V	٧	٧	٧	٧	V	V
12	٧	٧	٧	٧	n	n	V	V	٧	٧	٧	٧	٧	٧
13	n	n	V	V	n	n	V	V	٧	٧	٧	٧	V	V
17	n	n	٧	V	n	n	V	V	٧	٧	٧	٧	٧	٧
25	٧	٧	٧	٧	٧	٧	V	V	٧	٧	٧	٧	٧	٧
26	V	٧	٧	٧	٧	n	V	V	٧	٧	٧	٧	٧	٧
41	n	n	٧	V	V	n	V	V	٧	٧	٧	٧	٧	V
66	V	V	V	V	٧	٧	V	V	V	V	٧	٧	V	V
71	n	n	V	٧	٧	٧	V	V	٧	٧	٧	٧	V	V
						0	ccupied E	Bandwidth						
2	V	V	V	V	٧	٧	V	V	٧	٧	٧	٧	V	V
4	V	V	V	V	٧	٧	V	V	٧	V	٧	٧	V	V
5	V	V	V	٧	n	n	V	V	V	٧	>	٧	٧	V
7	n	n	٧	V	٧	٧	V	V	V	٧	٧	V	V	V
12	V	V	٧	V	n	n	V	V	٧	٧	٧	٧	٧	V
13	n	n	V	V	n	n	V	V	V	٧	٧	٧	٧	V
17	n	n	V	٧	n	n	V	V	٧	٧	٧	٧	٧	٧
25	٧	٧	V	٧	٧	٧	V	V	٧	٧	٧	V	٧	V
26	V	V	V	V	٧	n	V	V	٧	٧	٧	٧	V	V





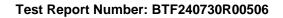
41	n	n	٧	V	V	n	٧	٧	٧	٧	٧	V	٧	V
66	٧	٧	٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
71	n	n	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	V

								6. 1						
	ı	I	I		I	F	requency	1	1		ı	I		
2	V	V	V	٧	V	V	V	V	V	V	V	V	V	V
4	V	V	V	V	V	V	V	V	V	V	V	V	V	V
5	V	V	V	٧	n	n	V	V	V	٧	V	V	V	V
7	n	n	٧	V	V	V	V	٧	V	٧	V	V	V	V
12	V	V	٧	٧	n	n	V	V	٧	٧	V	V	V	V
13	n	n	٧	٧			V	V	V	٧	V	V	V	V
17	n	n	٧	٧			V	V	V	٧	V	V	V	V
25	V	V	V	V	V	V	V	V	V	V	V	V	V	V
26	V	V	٧	V	V	n	V	V	V	V	V	V	V	V
41	n	n	V	V	V	n	V	V	V	V	V	V	V	V
66	V	V	V	V	V	V	V	V	V	V	V	V	V	V
71	n	n	V	٧	٧	V	V	V	V	٧	V	V	V	V
					Spurio	ous Er	mission at	t Antenna T	ermina	als				
2	٧	V	٧	٧	V	V	V	V	V	٧	V	V	V	V
4	٧	V	٧	٧	٧	٧	V	V	٧	٧	V	V	V	V
5	V	V	٧	٧	n	n	V	V	٧	٧	V	V	V	V
7	n	n	٧	٧	V	V	V	V	V	٧	V	V	V	V
12	٧	٧	٧	>	n	n	V	V	٧	>	V	V	V	V
13	n	n	٧	٧	n	n	V	٧	٧	٧	V	V	V	٧
17	n	n	٧	٧	n	n	V	V	٧	٧	٧	V	V	V
25	V	V	V	٧	V	V	V	V	V	V	V	V	V	V
26	V	٧	V	V	V	n	V	V	V	V	V	V	V	V
41	n	n	V	V	V	n	V	V	V	V	V	V	V	V
66	٧	V	٧	V	٧	V	V	V	٧	٧	V	V	V	V
71	n	n	٧	V	V	V	V	V	V	V	V	V	V	V
							Band	Edge					1	
2	٧	٧	٧	٧	V	V	V	V	V	٧	V	V	٧	٧
4	V	V	V	٧	V	V	V	V	V	٧	V	V	V	٧
5	٧	٧	٧	٧	n	n	V	V	V	٧	V	V	V	٧
7	n	n	٧	>	٧	٧	V	V	V	V	V	V	٧	٧
12	٧	٧	٧	٧	n	n	V	٧	٧	٧	٧	٧	V	٧
13	n	n	٧	٧	n	n	V	٧	٧	٧	٧	٧	٧	٧
17	n	n	٧	٧	n	n	V	V	V	٧	V	V	V	V
25	٧	٧	٧	٧	V	V	V	V	٧	٧	V	V	V	V





26	٧	٧	V	V	V	n	V	٧	V	V	٧	V	V	V
41	n	n	٧	٧	٧	n	٧	٧	٧	٧	٧	V	V	V
66	٧	٧	٧	٧	٧	٧	V	V	٧	٧	٧	٧	V	٧
71	n	n	٧	٧	٧	٧	٧	٧	V	V	٧	V	V	V

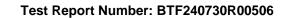




					Fiel	d Stre	ength of S	purious Rac	diation	ı				
2	٧	٧	٧	٧	٧	٧	V	V	٧	٧	٧	٧	٧	٧
4	٧	٧	٧	٧	٧	V	V	V	٧	٧	٧	V	٧	V
5	٧	٧	٧	٧	n	n	V	V	٧	٧	٧	٧	٧	V
7	n	n	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	V	٧
12	٧	٧	٧	٧	n	n	V	V	٧	٧	٧	٧	٧	٧
13	n	n	٧	٧	n	n	V	V	٧	٧	٧	٧	٧	٧
17	n	n	٧	٧	n	n	V	٧	V	٧	٧	٧	V	٧
25	٧	٧	٧	V	٧	V	V	٧	٧	٧	٧	V	V	V
26	٧	٧	V	V	٧	n	V	٧	V	٧	٧	V	V	V
41	n	n	٧	٧	>	n	V	V	٧	>	٧	V	V	٧
66	٧	٧	٧	٧	٧	٧	V	V	V	٧	٧	٧	٧	V
71	n	n	٧	V	٧	٧	V	٧	٧	٧	٧	V	V	V

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

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





		Ban	d 2		
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
Lew Dense	5	18625	1852.5	625	1932.5
Low Range	10	18650	1855	650	1935
	15 ^[1]	18675	1857.5	675	1937.5
	رتا 20	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
US-b Dans	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

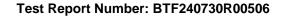
Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	19957	1710.7	1957	2110.7
	3	19965	1711.5	1965	2111.5
Law Danga	5	19975	1712.5	1975	2112.5
Low Range	10	20000	1715	2000	2115
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Mid Range	1.4/3/5/10/15/20	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
	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					
Low Range	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					
High Dangs	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 for which a relaxation of the specified UE receiver sensitivity requirement (TS										
36.101 [27] Clause 7.3) is allowed.										

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
Low Range	10	20800	2505	2800	2625
Low Range	15	20825	2507.5	2825	2627.5
	20 [1]	20850	2510	2850	2630
Mid Range	5/10/15 20 [1]	21100	2535	3100	2655
	5	21425	2567.5	3425	2687.5
Lligh Dangs	10	21400	2565	3400	2685
High Range	15	21375	2562.5	3375	2682.5
	20 [1]	21350	2560	3350	2680
	for which a relaxati		cified UE receiver ser	nsitivity requ	irement





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			
High Dongs	3	23165	714.5	5165	744.5			
High Range	5 [1]	23155	713.5	5155	743.5			
10 [1] 23130 711 5130 741								
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36 101 [27] Clause 7.3) is allowed								

Band 13

Table 4.3.1.1.13-1: Test frequencies for E-UTRA channel bandwidth for operating band 13

Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	5 [1]	23205	779.5	5205	748.5
Low Range	10 ^[1]	23230	782	5230	751
Mid Range	5 [1]/10 [1]	23230	782	5230	751
High Range	5 [1]	23255	784.5	5255	753.5
riigii ixarige	10 ^[1]	23230	782	5230	751

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

Band17

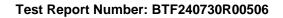
Table 4.3.1.1.17-1: Test frequencies for E-UTRA channel bandwidth for operating band 17

Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Bongo	5 [1]	23755	706.5	5755	736.5
Low Range	10 [1]	23780	709	5780	739
Mid Range	5 [1]/10 [1]	23790	710	5790	740
High Dangs	5 [1]	23825	713.5	5825	743.5
High Range	10 ^[1]	23800	711	5800	741

Band25

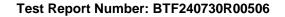
Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	26047	1850.7	8047	1930.7
	3	26055	1851.5	8055	1931.5
Low Range	5	26065	1852.5	8065	1932.5
	10	26090	1855	8090	1935
	15 [1]	26115	1857.5	8115	1937.5
	20 [1]	26140	1860	8140	1940
Mid Range	1.4/3/5/10 15 [1]/20 [1]	26365	1882,5	8365	1962.5
	1.4	26683	1914.3	8683	1994.3
	3	26675	1913.5	8675	1993.5
High Range	5	26665	1912.5	8665	1992.5
	10	26640	1910	8640	1990
	15 [1]	26615	1907.5	8615	1987.5
	20 [1]	26590	1905	8590	1985

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36 101 127) Clause 7.31 is allowed





Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	1.4	26697	814.7	8697	859.7
Low Range	3	26705	815.5	8705	860.5
	5	26715	816.5	8715	861.5
	10[1]	26740	819	8740	864
	15 [1]	26765	821.5	8765	866.5
Mid Range	1.4/3/5/10 ^[1] 15 ^[1]	26865	831.5	8865	876.5
High Range	1.4	27033	848.3	9033	893.3
	3	27025	847.5	9025	892.5
	5	27015	846.5	9015	891.5
	10[1]	26990	844	8990	889
	15 ^[1]	26965	841.5	8965	886.5





Band 41

Table 4.3.1.2.9-1: Test frequencies for E-UTRA channel bandwidth for operating band 41

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Low Range	5	39675	2498.5
	10	39700	2501
	15	39725	2503.5
	20	39750	2506
Mid Range	5/10/15/20	40620	2593
High Range	5	41565	2687.5
	10	41540	2685
	15	41515	2682.5
	20	41490	2680

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]
Low Range	1.4	131979	1710.7	66443	2110.7
	3	131987	1711.5	66451	2111.5
	5	131997	1712.5	66461	2112.5
	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
Paired High Range ²	1.4	132665	1779.3	67129	2179.3
	3	132657	1778.5	67121	2178.5
	5	132647	1777.5	67111	2177.5
	10	132622	1775	67086	2175
	15	132597	1772.5	67061	2172.5
	20	132572	1770	67036	2170
High Range ³	1.4	NA	NA	67329	2199.3
	3	NA	NA	67321	2198.5
	5	NA	NA	67311	2197.5
	10	NA	NA	67286	2195
	15	NA	NA	67261	2192.5
	20	NA	NA	67236	2190

Band 71

Table 4.3.1.1.71-1: Test frequencies for E-UTRA channel bandwidth for operating band 71

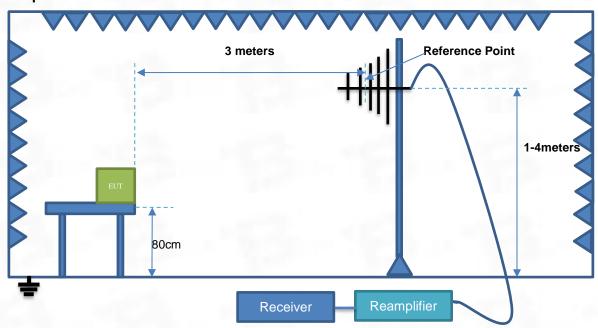
Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	5	133147	665.5	68611	619.5
	10	133172	668	68636	622
	15	133197	670.5	68661	624.5
	20	133222	673	68686	627
Mid Range	5/10/15	133297	680.5	68761	634.5
	20	133322	683	68786	637
High Range	5	133447	695.5	68911	649.5
	10	133422	693	68886	647
	15	133397	690.5	68861	644.5
	20	133372	688	68836	642



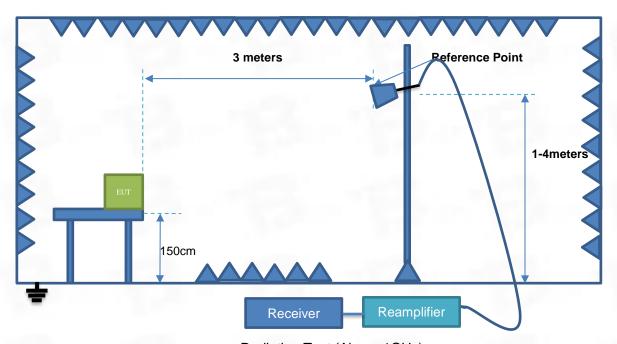


4.5 Test Setup

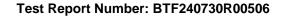
Test Setup 1



Radiation Test (30MHz - 1GHz)

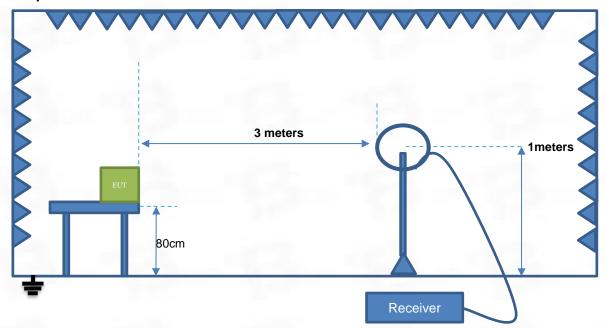


Radiation Test (Above 1GHz)



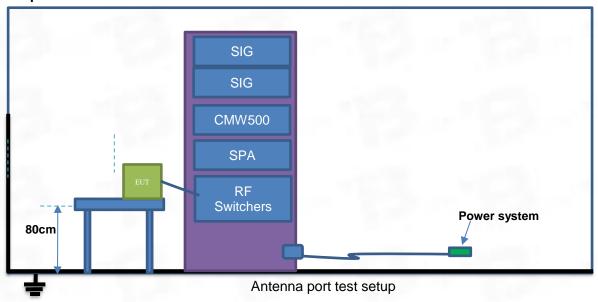


Test Setup 2



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:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:

1) for continuous transmissions, set to 1 ms,



2)for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

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

Alternate procedure for PAPR:

Use one of the procedures presented in 4.1 to measure the total peak power and record as 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.

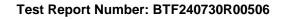
5.3.2 Test Setup

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;

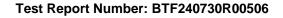
SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm; Correction Factor = total correction factor including cable loss, in dB;

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).

Baı	nd:	GSM850	Test	70.1	vest l	Test node:	GSM	Polarization:	I
No.		uency IHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margir (dB)	Detector	P/F
1	164	8.400	-22.59	-38.08	-60.67	-13.00	-47.67	peak	Р
2	247	2.600	-21.39	-37.15	-58.54	-13.00	-45.54	peak	Р
3	329	6.800	-19.19	-37.03	-56.22	-13.00	-43.22	peak	Р

Bai	nd:	GSM85	0 Tes chanr		Lowest	Test mode:		GSM	Polarization	: 1
No.	Frequ (MI	iency Hz)	Reading (dBm)	Factor	Leve (dBn		mit Bm)	Margi (dB)	n Detector	P/F
1	1648	.400	-23.29	-38.08	-61.3	7 -1	3.00	-48.37	y peak	Р
2	2472	.600	-21.91	-37.15	-59.0	6 -1	3.00	-46.06	peak	Р
3	3296	.800	-20.28	-37.03	-57.3	1 -1	3.00	-44.31	peak	Р

В	and:	GSM850	Tes chann		Mic	id1e		est ode:		GSM	P	olarization:	Н
										I			
No.	Frequ	iency	Reading	Fact	tor	Leve	1	Limi	t	Marg	in	Detector	P/F
NO.	(MI	Hz)	(dBm)	(dE	3)	(dBn	1)	(dBm	1)	(dE	3)	Detector	Г/Г
1	1673	.200	-23.45	-37.	97	-61.4	2	-13.0	0	-48.4	42	peak	Р
2	2509	.800	-22.25	-37.	04	-59.2	9	-13.0	0	-46.	29	peak	Р
3	3346	.400	-20.05	-36.	92	-56.9	7	-13.0	0	-43.9	97	peak	Р

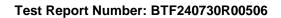




Baı	nd:	GSM850	Tes chann		Middle	Test mode:	GSM	F	Polarization:	v
No.	Frequ (MI	iency Hz)	Reading (dBm)	Factor	Leve (dBn			rgin HB)	Detector	P/F
1	1673	.200	-22.87	-37.97	-60.8	4 -13.	00 -47	7.84	peak	Р
2	2509	.800	-21.49	-37.04	-58.5	3 -13.	00 -4	5.53	peak	Р
3	3346	.400	-19.86	-36.92	-56.7	8 -13.0	00 -43	3.78	peak	Р

Ва	ınd:	GSM850	Test channe	H	ighest	Test mode:	GSM	P	olarization:	ŀ
No.		uency Hz)	Reading (dBm)	Factor (dB)	Leve (dBm			gin B)	Detector	P/F
1	1697	7.600	-24.10	-37.86	-61.9	6 -13.	00 -48	3.96	peak	Р
2	2546	6.400	-22.90	-36.93	-59.8	3 -13.	00 -46	6.83	peak	Р
3	3395	5.200	-20.70	-36.81	-57.5	1 -13.	00 -44	.51	peak	Р

Ва	nd:	GSM850	Tes chann		Highest	Test mode:	GSM	Po1	arization:	V
					-					
No.		uency Hz)	Reading (dBm)	Factor (dB)	r Leve (dBm		-	1 1)	etector	P/F
1	1697	7.600	-22.19	-37.86	-60.0	5 -13.0	0 -47.0	05	peak	Р
2	2546	6.400	-20.81	-36.93	-57.7	4 -13.0	00 -44.7	74	peak	Р
3	3398	5.200	-19.18	-36.81	-55.9	9 -13.0	00 -42.9	99	peak	Р

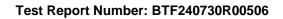




Ва	ınd:	GSM1900	Tes		Lowest	Test mode:		GSM	Polarization:	I
No.		uency Hz)	Reading (dBm)	Factor (dB)	Leve (dBn		nit Bm)	Margin (dB)	Detector	P/F
1	3700	0.400	-22.59	-37.12	-59.7	1 -13	3.00	-46.71	peak	Р
2	5550	0.600	-21.39	-34.19	-55.5	8 -13	3.00	-42.58	peak	Р
3	7400	0.800	-19.19	-36.24	-55.4	3 -13	3.00	-42.43	peak	Р

Ва	nd:	GSM1900) Tes chan		Lowest	Test mode:	GSM	I	Polarization:	V
No.		uency Hz)	Reading (dBm)	Factor (dB)	r Leve			rgin dB)	Detector	P/F
1	370	0.400	-22.40	-37.12	-59.5	2 -13.0	00 -4	6.52	peak	Р
2	5550	0.600	-23.96	-34.19	-58.1	5 -13.0	00 -4	5.15	peak	Р
3	7400	0.800	-21.09	-36.24	-57.3	3 -13.0	00 -4	4.33	peak	Р

Ва	nd:	GSM1900	Tes chann		Middle	Test mode:	GSM	Po	olarization:	I
No.	-	uency Hz)	Reading (dBm)	Facto (dB)	or Leve			gin B)	Detector	P/F
1	3760	0.000	-21.25	-37.0	1 -58.2	26 -13.0	00 -45	.26	peak	Р
2	5640	0.000	-22.36	-34.08	-56.4	-13.0	00 -43	.44	peak	Р
3	7520	0.000	-20.08	-36.13	3 -56.2	-13.0	00 -43	.21	peak	Р

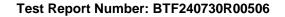




Ва	and:	GSM1900) Te		Middle	Test mode:	GSM	Polarizatio	n: V
No.	Frequ	iency	Reading	Factor	Leve	Limit	Marg	in Detector	P/F
INO.	(MI	Hz)	(dBm)	(dB)	(dBm) (dBm) (dB)	Detector	P/F
1	3760	.000	-21.98	-37.01	-58.99	9 -13.0	0 -45.9	9 peak	Р
2	5640	.000	-23.54	-34.08	-57.62	2 -13.0	0 -44.6	2 peak	Р
3	7520	.000	-20.67	-36.13	-56.80	-13.0	0 -43.8	0 peak	Р

В	and:	GSM1900	Tes		lighest	Test mode:	GSM	Polarization	n: H
No.		uency Hz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3819	9.600	-24.10	-36.90	-61.00	-13.00	-48.00	peak	Р
2	5729	9.400	-22.90	-33.97	-56.87	-13.00	-43.87	peak	Р
3	7639	9.200	-20.73	-36.02	-56.75	-13.00	-43.75	peak	Р

В	and:	GSM1900) Te	st nel:	Highest	Test mode:	GSM	Polarizatio	n: V
			D 1		<u> </u>		1		
No.	Frequ (MF	-	Reading (dBm)	Facto (dB)	r Level (dBm)	Limit (dBm)		n Detector	P/F
1	3819.	.600	-21.30	-36.9	58.20	-13.00	-45.20) peak	Р
2	5729.	400	-22.86	-33.9	7 -56.83	-13.00	-43.83	3 peak	Р
3	7639.	.200	-19.99	-36.0	2 -56.01	-13.00	-43.0°	1 peak	Р





3G Part

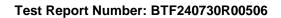
Note:1.It was found that the emission value below 1GHz and above 18GHz was below the limit of 20dB, so it was recorded in the report.

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

В	and:	WCDMA Band II	Test channe	1 1.0	west. I	Test ode:	RMC	Polarization:	Н
No.	Frequ (MI	-	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3704	.800	-22.59	-37.12	-59.71	-13.00	-46.71	peak	Р
2	5557	.200	-21.39	-34.19	-55.58	-13.00	-42.58	peak	Р
3	7409	.600	-19.19	-36.24	-55.43	-13.00	-42.43	peak	Р

Ва	nd: WCDM/ Band 1		Lo	west	rest ode:	RMC P	olarization:	V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3704.800	-22.65	-37.12	-59.7	-13.00	-46.77	peak	Р
2	5557.200	-20.44	-34.19	-54.63	-13.00	-41.63	peak	Р
3	7409.600	-20.20	-36.24	-56.44	-13.00	-43.44	peak	Р

Ва	Band:		ind: Middle		Middle	Tes mod		RMC	P	olarization:	Н
No.		uency Hz)	Reading (dBm)	Fact			Limit		gin	Detector	P/F
1	3760	0.000	-23.66	-37.0	01 -60	.67	-13.00	-4	7.67	peak	Р
2	5640	0.000	-21.57	-34.0	08 -55	.65	-13.00	-42	2.65	peak	Р
3	7520	0.000	-20.11	-36.	13 -56	.24	-13.00	-43	3.24	peak	Р

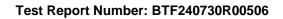




Ва	nd:	WCDMA Band II	Tes channe		Mid	ddle		est ode:	F	RMC	P	olarization:	V
No.	Frequ	uency	Reading	Fac	tor	Leve	1	Limi	t	Mar	gin	Detector	P/F
NO.	(M	Hz)	(dBm)	(d	B)	(dBm	ı)	(dBm)	(dl	3)	Detector	F/I
1	3760	0.000	-22.16	-37	.01	-59.1	7	-13.0	0	-46.	17	peak	Р
2	5640	0.000	-20.02	-34	.08	-54.1	0	-13.0	0	-41.	10	peak	Р
3	7520	0.000	-19.78	-36	.13	-55.9	1	-13.0	0	-42.	91	peak	Р

Ва	and:	WCDMA Band II	Test channe	H-	ghest		est de:	RMC	P	olarization:	Н
No.		uency Hz)	Reading (dBm)	Factor	Leve (dBr		Limit	Marg (dE		Detector	P/F
1	3815	5.200	-24.10	-36.90	-61.0	00	-13.00	-48.	00	peak	Р
2	5722	2.800	-22.90	-33.97	-56.8	87	-13.00	-43.	87	peak	Р
3	7630	0.400	-20.76	-36.02	-56.7	78	-13.00	-43.	78	peak	Р

Baı	nd:	WCDMA Band II	Test		Hig	hest		Cest ode:	F	RMC	P	olarization:	V
No.		uency IHz)	Reading (dBm)	Fact		Leve (dBm	- 1	Limi (dBm	- 1	Marg (dB		Detector	P/F
1	381	5.200	-21.48	-36.	90	-58.3	В	-13.0	0	-45.3	8	peak	Р
2	572	2.800	-19.34	-33.	97	-53.3	1	-13.0	0	-40.3	1	peak	Р
3	763	0.400	-19.10	-36.	02	-55.12	2	-13.0	0	-42.1	2	peak	Р

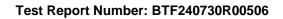




В	Band:	WCDMA Band IV		Test Lo		Test mode:	RMC	Polarization	: F
No.	Frequ	ency]	Reading	Factor	Leve1	Limit	Margin	Detector	P/F
NO.	(MH	Hz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	Detector	Р/Г
1	3424	.800	-22.59	-37.30	-59.89	-13.00	-46.89	peak	Р
2	5137	.200	-21.39	-35.01	-56.40	-13.00	-43.40	peak	Р
3	6849	.600	-19.19	-36.13	-55.32	-13.00	-42.32	peak	Р

Bar	nd:	WCDMA Band IV	Tes- channe		Lowest	Test mode:	F	RMC	Polarization:	1
No.	Frequen (MHz)	-	Reading (dBm)	Factor	r Lev		nit Bm)	Margin (dB)	Detector	P/F
1	3424.80	00	-23.48	-37.30	-60.7	78 -13	.00	-47.78	peak	Р
2	5137.20	00	-23.11	-35.01	-58.	12 -13	.00	-45.12	peak	Р
3	6849.60	00	-21.49	-36.13	-57.0	62 -13	.00	-44.62	peak	Р

Ва	nd:	WCDMA Band IV	Test	1 M	liddle	Tes mode		RMC	Po	olarization:	Н
No.		uency Hz)	Reading (dBm)	Factor	Lev (dB		Limit (dBm)	Marg (dI		Detector	P/F
1	3465	5.200	-22.74	-37.19	-59.	93	-13.00	-46.	93	peak	Р
2	5197	7.800	-21.87	-34.90	-56.	77	-13.00	-43.	77	peak	Р
3	6930	0.400	-20.49	-36.02	-56.	51	-13.00	-43.	51	peak	Р

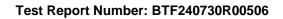




Ва	ind:	WCDMA Band IV	Test channe		Middle		Test ode:	R	EMC	Polarization:	V
No.	_	uency Hz)	Reading (dBm)	Fact		vel Bm)	Limi (dBm		Margin (dB)	Detector	P/F
1	3465	5.200	-23.06	-37.	19 -6	0.25	-13.0	0	-47.25	peak	Р
2	5197	7.800	-22.69	-34.9	90 -5	7.59	-13.0	0	-44.59	peak	Р
3	6930	0.400	-21.07	-36.0)2 -5	7.09	-13.0	0	-44.09	peak	Р

Ва	and:	WCDMA Band IV	Test channe		Hig	hest		Test ode:	F	RMC	Polarization	: I
No.	Frequ	uency	Reading	Fact	tor	Leve	1	Limi	t	Margin	Detector	P/F
NO.		Hz)	(dBm)	(dI		(dBm	_	(dBm	_	(dB)		
2		7.800	-24.10 -22.90	-37. -34.		-61.1 -57.6		-13.00 -13.00		-48.18 -44.69	•	P P
3		0.400	-21.14	-35.		-57.0		-13.00	-	-44.05	•	P

Ва	nd:	WCDMA Band IV	Test channe		Highest	Test mode:	RMC	Polarization	: '
No.	Frequ (Mł	iency Hz)	Reading (dBm)	Factor (dB)	Leve (dBm			Detector	P/F
1	3505	.200	-22.38	-37.08	-59.4	6 -13.0	0 -46.4	6 peak	Р
2	5257	.800	-22.01	-34.79	-56.8	0 -13.0	0 -43.8	0 peak	Р
3	7010	.400	-20.39	-35.91	-56.3	0 -13.0	0 -43.3	0 peak	Р

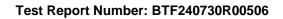




Ва	nd:	WCDMA Band V	Test channe		owest	Test mode:	I	RMC	Polarization:	Н
No.	Frequ	iency Hz)	Reading (dBm)	Factor	Leve (dBi		mit Bm)	Margi (dB)	n Detector	P/F
1	•	2.800	-22.59	-38.08	-60.		3.00	-47.6	7 peak	Р
2	2479	.200	-21.39	-37.15	-58.	54 -13	3.00	-45.5	4 peak	Р
3	3305	.600	-19.19	-37.03	-56.2	22 -13	3.00	-43.2	2 peak	Р

Ba	nd:	WCDMA Band V	Tes chann		Lov	vest		est ode:	RMC	P	olarization:	V
No.	Frequ (MF	-	Reading (dBm)	Fact	- 1	Level	1	Limit (dBm)	Margi (dB)		Detector	P/F
1	1652	.800	-23.54	-38.	08	-61.62		-13.00	-48.6	2	peak	Р
2	2479	.200	-21.98	-37.	15	-59.13		-13.00	-46.1	3	peak	Р
3	3305	.600	-20.47	-37.	03	-57.50		-13.00	-44.5	0	peak	Р

Bai	nd:	WCDMA Band V	Test channe		Middle	Test mode:]	RMC	Polarizat	zion: H
No.		uency Hz)	Reading (dBm)	Facto	r Lev		mit Bm)	Margi (dB)	n Detect	tor P/F
1	1673	3.200	-22.31	-37.97	-60.	28 -13	3.00	-47.2	B peak	k P
2	2509	9.800	-20.62	-37.04	-57.	66 -13	3.00	-44.6	6 peak	k P
3	3346	3.400	-19.97	-36.92	-56.	89 -13	3.00	-43.8	9 peak	k P

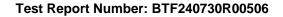




Ва	ınd:	WCDMA Band V	Tes chann		Midd1	e	Test iode:	F	RMC	Pe	olarization:	V
No.	Freque (MHz	-	Reading (dBm)	Fact		Level	Limi (dBm		Margi (dB)		Detector	P/F
1	1673.2	200	-23.12	-37.9	97 -	61.09	-13.0	0	-48.0	9	peak	Р
2	2509.8	300	-21.56	-37.0)4	-58.60	-13.0	0	-45.6	0	peak	Р
3	3346.4	100	-20.05	-36.9	92	-56.97	-13.0	0	-43.9	7	peak	Р

В	and:	WCDMA Band V	Test		Highest	Test mode:	RMC	Polarization	n: 1
No.	1	uency Hz)	Reading (dBm)	Facto (dB)	r Leve			LDetector	P/F
1	1693	3.200	-24.10	-37.8	-61.9	6 -13.0	0 -48.9	6 peak	Р
2	2539	.800	-22.90	-36.93	-59.8	3 -13.0	0 -46.8	3 peak	Р
3	3386	3.400	-20.62	-36.8	1 -57.4	3 -13.0	0 -44.4	3 peak	Р

Ba	nd:	WCDMA Band V	Test		Highest	Test mode:	RMC	I	Polarization:	7
No.		uency Hz)	Reading (dBm)	Factor (dB)	r Leve			rgin dB)	Detector	P/F
1	1693	3.200	-22.44	-37.86	-60.3	0 -13.0	00 -4	7.30	peak	Р
2	2539	.800	-20.88	-36.93	-57.8	1 -13.0	00 -4	4.81	peak	Р
3	3386	3.400	-19.37	-36.81	-56.1	8 -13.0	00 -4	3.18	peak	Р





4G Part

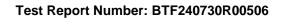
Note: 1.It was found that the emission value below 1GHz and above 18GHz was below the limit of 20dB, so it was recorded in the report.

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

Ва	nd:	2	Test channel:	Lowe	st. I	est de:	20M	I Po	olarization:	H
No.	Frequ	iency	Reading	Factor	Leve1	Lim	it	Margin	Detector	P/F
NO.	(MI	Hz)	(dBm)	(dB)	(dBm)	(dBi	n)	(dB)	Detector	Γ/1
1	3701	.400	-22.79	-37.12	-59.91	-13.0	00	-46.91	peak	Р
2	5552	.100	-18.99	-34.19	-53.18	-13.0	00	-40.18	peak	Р
3	7402	.800	-17.88	-36.24	-54.12	-13.0	00	-41.12	peak	Р

Ba	nd:	2	Test channel	: Lowe	est	Test mode:	2	OM I	Polarization:	1
No.	Freque (MHz	-	Reading (dBm)	Factor (dB)	Leve:			Margin (dB)	Detector	P/F
1	3701.4	100	-24.93	-37.12	-62.05	-13	.00	-49.05	peak	Р
2	5552.1	00	-19.14	-34.19	-53.33	-13.	.00	-40.33	peak	Р
3	7402.8	300	-18.11	-36.24	-54.35	-13.	.00	-41.35	peak	Р

Ва	ınd:	2	Test channel	:	Midd	le	Te mod	st le:	20	OM	Po	olarization:	Н
No.	Frequ (MI	-	Reading (dBm)		ctor dB)		vel Bm)	Lim (dB	nit Bm)	Mar (d	_	Detector	P/F
1	3760	.000	-23.65	-3	7.01	-60	.66	-13.	.00	-47	.66	peak	Р
2	5640	.000	-19.85	-3	4.08	-53	.93	-13.	.00	-40	.93	peak	Р
3	7520	.000	-18.74	-3	6.13	-54	.87	-13.	.00	-41	.87	peak	Р

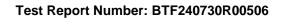




Ва	ınd:	2	Test channel:	Midd	lle	Te: mod		20M	Po	olarization:	V
No.	Frequ	iency	Reading	Factor	Lev	e1	Limi	t	Margin	Detector	P/F
NO.	(MH	Hz)	(dBm)	(dB)	(dB	m)	(dBm))	(dB)	Detector	Γ/1
1	3760	.000	-24.51	-37.01	-61.	52	-13.00)	-48.52	peak	Р
2	5640	.000	-18.72	-34.08	-52.	80	-13.00)	-39.80	peak	Р
3	7520	.000	-17.69	-36.13	-53.	82	-13.00)	-40.82	peak	Р

Ва	and:	2	Test channel:	High	est.	est ode:	20M	Polarization:	F
No.		uency IHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margir (dB)	Detector	P/F
1	381	8.600	-24.30	-36.90	-61.20	-13.00	-48.20	peak	Р
2	572	7.900	-20.50	-33.97	-54.47	-13.00	-41.47	peak	Р
3	763	7.200	-19.39	-36.02	-55.41	-13.00	-42.41	peak	Р

Baı	nd:	2	Test channel	: High	est	Test node:	20M	P	olarization:	V
No.	-	uency Hz)	Reading (dBm)	Factor	Level	Limi		argin	Detector	P/F
1	3818	8.600	-23.83	-36.90	-60.73	-13.0	00 -	47.73	peak	Р
2	572	7.900	-18.04	-33.97	-52.01	-13.0	00 -	39.01	peak	Р
3	763	7.200	-17.01	-36.02	-53.03	-13.0	00 -	40.03	peak	Р

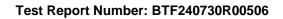




Ва	nd:	4	Test channel:	Lowe	st. I	est ode:	20	OM	Polarization:	H
	Erogu	onov	Panding	Factor	Lovel	I de		Mangi	_	
No.	Frequ (MF	-	Reading (dBm)	Factor (dB)	Level (dBm)		nit Bm)	Margi (dB)	Detector	P/F
1	3435	.000	-20.71	-37.30	-58.01	-13	.00	-45.01	peak	Р
2	5152	.500	-17.76	-35.01	-52.77	-13	.00	-39.77	peak	Р
3	6870	.000	-17.13	-36.13	-53.26	-13	.00	-40.26	peak	Р

Ва	nd: 4	Test channel	: Lowe	t pe	de: 2	OM Po	olarization:	V
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	3435.000	-20.96	-37.30	-58.26	-13.00	-45.26	peak	Р
2	5152.500	-19.68	-35.01	-54.69	-13.00	-41.69	peak	Р
3	6870.000	-18.47	-36.13	-54.60	-13.00	-41.60	peak	Р

Bai	nd:	4	Test channel	: Midd	lle I	est de:	20M	Po	olarization:	Н
No.		uency Hz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limi (dBm)	l l	gin B)	Detector	P/F
1	346	5.000	-21.57	-37.19	-58.76	-13.00	-45	.76	peak	Р
2	519	7.500	-18.62	-34.90	-53.52	-13.00	-40	.52	peak	Р
3	693	0.000	-17.99	-36.02	-54.01	-13.00	-41	.01	peak	Р

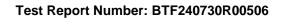




Baı	nd:	4	Test channel	: Mid	ld1e		est de:	20	ОМ	Po	olarization:	V
		1			1				I			
No.	Frequ (MF	_	Reading (dBm)	Factor (dB)		vel Bm)	Lim (dB		Marg (d		Detector	P/F
1	3465	.000	-20.54	-37.19	-57	7.73	-13.	00	-44.	73	peak	Р
2	5197	.500	-19.26	-34.90	-54	.16	-13.	00	-41.	16	peak	Р
3	6930	.000	-18.05	-36.02	-54	1.07	-13.	00	-41.	07	peak	Р

Bai	nd:	4	Test channel:	High	est.	est ode:	20M	Po	olarization:	Н
No.	Frequ (MF	-	Reading (dBm)	Factor (dB)	Level (dBm)	Limi (dBm		rgin dB)	Detector	P/F
1	3495	.000	-22.22	-37.08	-59.30	-13.0	0 -4	6.30	peak	Р
2	5242	.500	-19.27	-34.79	-54.06	-13.0	0 -4	1.06	peak	Р
3	6990	.000	-18.64	-35.91	-54.55	-13.0	0 -4	1.55	peak	Р

Ва	ınd:	4	Test channel	: High	nest	Test mode:	20M	P	olarization:	7
No.	Frequ (MF	_	Reading (dBm)	Factor (dB)	Leve (dBm			Margin (dB)	Detector	P/F
1	3495	.000	-19.86	-37.08	-56.9	4 -13.	00	-43.94	peak	Р
2	5242	.500	-18.58	-34.79	-53.3	7 -13.	00	-40.37	peak	Р
3	6990	.000	-17.37	-35.91	-53.2	8 -13.	00	-40.28	peak	Р

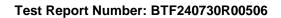




Ва	and:	5	Test channel:	Lowe	st. I	est ode:	10	OM	Polariza	ation:	Н
No.	Frequ (MF		Reading (dBm)	Factor (dB)	Level (dBm)	Lin (dE	nit Bm)	Margi (dB)	n Dete	ector	P/F
1	1649	.400	-19.47	-38.08	-57.55	-13	.00	-44.5	5 pe	eak	Р
2	2474	.100	-18.20	-37.15	-55.35	-13	.00	-42.35	5 pe	eak	Р
3	3298	.800	-17.38	-37.03	-54.41	-13	.00	-41.4	l pe	eak	Р

Ва	nd:	5	Test channel	: Low	rest	Test mode:	10)M	Polarization:	V
No.	Frequence (MHz)	-	Reading (dBm)	Factor	Leve (dBm		nit 3m)	Margin (dB)	Detector	P/F
1	1649.40		-21.51	-38.08	-59.5		3.00	-46.59	peak	Р
2	2474.10	00	-19.29	-37.15	-56.4	4 -13	.00	-43.44	peak	Р
3	3298.80	00	-18.06	-37.03	-55.0	9 -13	.00	-42.09	peak	Р

Ва	and:	5	Test channel	: Midd	lle I	est ode:	10	OM	Po	olarization:	I
	Frequ	uency	Reading	Factor	Level	Lin	nit	Marg	in		
No.		Hz)	(dBm)	(dB)	(dBm)		3m)	(dB)		Detector	P/F
1	1673	3.000	-20.33	-37.97	-58.30	-13	.00	-45.3	30	peak	Р
2	2509	9.500	-19.06	-37.04	-56.10	-13	.00	-43.1	10	peak	Р
3	3346	6.000	-18.24	-36.92	-55.16	-13	.00	-42.1	16	peak	Р

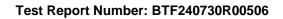




Ва	and:	5	Test channel	: Mid	dle	Test mode:	10	OM	Polarization:	V
No.	Frequ (MI		Reading (dBm)	Factor	Leve (dBn		mit Bm)	Margin (dB)	Detector	P/F
1	1673	.000	-21.09	-37.97	-59.0	-	3.00	-46.06	peak	Р
2	2509	.500	-18.87	-37.04	-55.9	1 -13	3.00	-42.91	peak	Р
3	3346	.000	-17.64	-36.92	-54.5	6 -13	3.00	-41.56	peak	Р

Baı	nd:	5	Test channel	: High	est.	est ode:	10M	Pol	arization:	H
No.	Freq	uency	Reading	Factor	Level	Limit	Marg	in	Dataatan	P/F
NO.	•	lHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB	3)	Detector	Р/Г
1	167	3.000	-21.09	-37.97	-59.06	-13.00	-46.0	06	peak	Р
2	250	9.500	-18.87	-37.04	-55.91	-13.00	-42.9	91	peak	Р
3	334	6.000	-17.64	-36.92	-54.56	-13.00	-41.5	56	peak	Р

Band:	5	Test	channel:	Highest	Test r	node:	20M	Polarization:	V
No.	Freque (MH	-	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	1696.	600	-20.98	-37.86	-58.84	-13.00	-45.84	peak	Р
2	2544.	900	-19.71	-36.93	-56.64	-13.00	-43.64	peak	Р
3	3393.	200	-18.89	-36.81	-55.70	-13.00	-42.70	peak	Р

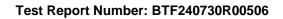




В	Band: 7		Test channel	:	Lowest	Tes mode		20	M	Po	larization:	Н
No.	Frequency (MHz)		Reading (dBm)	Fact (dB		evel Bm)	Lim: (dB:			gin B)	Detector	P/F
1	5005.	.000	-21.79	-35.0	61 -5	7.40	-25.0	00	-32	2.40	peak	Р
2	7507.	.500	-18.35	-35.9	93 -5	4.28	-25.0	00	-29	9.28	peak	Р
3	10010	.000	-16.12	-34.	13 -5	0.25	-25.0	00	-25	5.25	peak	Р

Ва	Band: 7		Test channel	: Low	est	Test mode:	2	ОМ	Polarization:	V
No.	Freque	_	Reading (dBm)	Factor (dB)	Leve (dBn		mit Bm)	Margir (dB)	Detector	P/F
1	5005.	000	-22.15	-35.61	-57.7	76 -25	5.00	-32.76	peak	Р
2	7507.	500	-17.30	-35.93	-53.2	23 -25	5.00	-28.23	peak	Р
3	10010	.000	-15.28	-34.13	-49.4	11 -2	5.00	-24.41	peak	Р

Band: 7		Test channel:	Midd	le I	est ode:	20)M	Polarization:	Н	
					ı					
No.	Frequency (MHz)		Reading (dBm)	Factor (dB)	Level (dBm)		nit Bm)	Margir (dB)	Detector	P/F
1	5070.000		-26.86	-35.50	-62.36	-25	5.00	-37.36	peak	Р
2	7605.	000	-24.59	-35.82	-60.41	-25	5.00	-35.41	peak	Р
3	10140	.000	-28.54	-34.02	-62.56	-25	5.00	-37.56	peak	Р

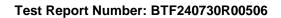




Ва	Band: 7		Test channel	: Mid	dle	Test mode:	1 2	OM	Po	larization:	I
No.	Frequency (MHz) 1 5070.000		Reading (dBm)	Factor (dB)	Lev (dB		Limit (dBm)	Marg (dE		Detector	P/F
1	5070.0	000	-22.66	-35.50	-58.	3.16 -25.00		-33.	16	peak	Р
2	7605.0	000	-17.81	-35.82	-53.	63	-25.00	-28.	63	peak	Р
3	10140.	000	-15.79	-34.02	-49.	81	-25.00	-24.	81	peak	Р

Ва	Band:		Test channel:	High	est	Test mode:	2	OM	Po	olarization:	Н
					,						
No.	Frequency (MHz)		Reading (dBm)	Factor (dB)	Level (dBm)			Marg (dE		Detector	P/F
1	513	5.000	-23.25	-35.40	-58.65	-25.	00	-33.	65	peak	Р
2	7702	7702.500 -19.81 -35.72		-55.53	-25.	00	-30.	53	peak	Р	
3	1027	0.000	-17.58	-33.92	-51.50	-25.	00	-26.	50	peak	Р

Band:		7	Test channel:	: High	est	Test mode:	2	ОМ	Po	olarization:	V
No.	(MHz)		Reading (dBm)	Factor (dB)	Leve (dBn		nit Bm)	Marg (di		Detector	P/F
1	5135.000		-23.01	-35.40	-58.4	11 -25	00.	-33.	41	peak	Р
2	7702	2.500	-18.16	-35.72	-53.8	38 -25	.00	-28.	88	peak	Р
3	1027	0.000	-16.14	-33.92	-50.0)6 -25	.00	-25.	06	peak	Р

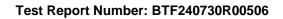




Ва	Band:		Test channel	:	Lowe	st		est de:	10	OM	Po	olarization:	
No.	Frequ (MH	-	Reading (dBm)	Fac		Lev (dB		Lim (dB		Marg (di		Detector	P/F
1	1399.400		-20.36	-38	.25	-58.	61	-13.	00	-45.	61	peak	Р
2	2099	.100			.11	-54.	52	-13.	00	-41.	52	peak	Р
3	2798	.800	-18.27	-36	.57	-54.	84	-13.	00	-41.	84	peak	Р

Ва	Band: 12		Test channel	.:	Lowest		est ode:	10M	P	olarization:	V
No.	Frequ (MF	•	Reading (dBm)	Fact		evel dBm)	Limi (dBm)		rgin HB)	Detector	P/F
1	1399	.400	-20.47			8.72	-13.00) -4	5.72	peak	Р
2	2099	.100	-20.00	-37.	11 -5	7.11	-13.00) -44	1.11	peak	Р
3	2798	.800	-18.71	-36.	57 -5	5.28	-13.00) -42	2.28	peak	Р

Ва	Band:		Test channel	.:	Midd	1e		est de:	10	OM	Po	olarization:	Н
No.		uency Hz)	Reading (dBm)	Fac		Lev (dB		Lim		Mar (d	gin B)	Detector	P/F
1	141	415.000 -21.22		-38	.14	-59.	36	-13.	00	-46	.36	peak	Р
2	212	2.500	-18.27 -37.00		-55.	27	-13.	00	-42	.27	peak	Р	
3	2830	0.000	-19.13	-36	.46	-55.	.59	-13.	00	-42	.59	peak	Р

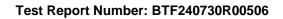




Ва	Band: 1		Test channel	l:	Middle		est de:	1	OM	Po	olarization:	V
No.	Frequ (MF		Reading (dBm)	Fact		evel (dBm)	Lim:		Mar (d)		Detector	P/F
1	1415.000		-20.05	-38.	14 -	58.19	-13.0	00	-45.	19	peak	Р
2	2122.500		-19.58	-37.	00 -	56.58	-13.0	00	-43.	58	peak	Р
3	2830	.000	-18.29	-36.	46 -	54.75	-13.0	00	-41.	75	peak	Р

Ban	nd:	12	Test channel:	High	est.	Test node:	10	OM	Po	olarization:	Н
						_					
No.	Frequency (MHz)		Reading (dBm)	Factor (dB)	Level (dBm)	Lim (dB		Mar (d		Detector	P/F
1	1430.600		-21.87	-38.03	-59.90	-13.	.00	-46	.90	peak	Р
2	2145.900		-18.92	-36.89	-55.81	-13.	.00	-42	.81	peak	Р
3	286	1.200	-19.78	-36.35	-56.13	-13.	.00	-43	.13	peak	Р

Bai	nd:	12	Test channel	: Hi	ghest	Test mode:	10M	P	olarization:	7
No.	(MHz)		Reading (dBm)	Factor	Leve (dBr		1	gin B)	Detector	P/F
1	1430	.600	-19.37	-38.03	-57.4	10 -13.0	00 -44	1.40	peak	Р
2	2145	2145.900 -18.90		-36.89	-55.7	79 -13.0	00 -42	2.79	peak	Р
3	2861	.200	-17.61	-36.35	-53.9	96 -13.	00 -40	0.96	peak	Р

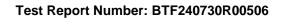




Band: 13		Test channel	: Lo	Lowest		st de: 10M		Pe	olarization:	H	
								-			
No.	Frequ (MI	iency Hz)	Reading (dBm)	Factor (dB)		vel Bm)	Limit (dBm)		Margin (dB)	Detector	P/F
1	1559	, , (,		-38.22	-61	.27	-40.00		-21.27	peak	Р
2	2338	.500	-17.86	-17.86 -37.50		55.36 -13.		.00 -42.36		peak	Р
3	3118	.000	-21.59	-36.91	-58	3.50	-13.00)	-45.50	peak	Р

Ва	Band: 13		Test Lowe channel:		Lowest	rest mode:		10M Pc		olarization:	V
No.	Frequ (MF	_	Reading (dBm)	Facto (dB)		vel Bm)	Limit (dBm)	Marg (dE		Detector	P/F
1	1559	.000	-22.08	-38.2	2 -60	0.30	-40.00	-20.	30	peak	Р
2	2338	.500	-17.02	-37.5	0 -54	1.52	-13.00	-41.	52	peak	Р
3	3118	.000	-20.78	-36.9	1 -57	7.69	-13.00	-44.	69	peak	Р

Bar	Band: 13		and: 13 Test channel:		Test Middle channel:		Test node:		Pc Pc		olarization:	Н	
No.		uency IHz)	Reading (dBm)	Factor (dB)	Level (dBm)		mit Bm)	Mar (d	_	Detector	P/F		
1	1564.000		-24.00	-37.63	-61.63	-40	.00 -21.63		peak	Р			
2	234	2346.000 -18.81 -36.94		-55.75	-13	3.00	-42.75		peak	Р			
3	312	8.000	-22.54	-36.34	-58.88	-13	3.00	-45	.88	peak	Р		

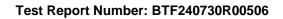




Ва	Band: 13		Test channel	channel:		le	Test mode:	1	OM Po		olarization:	V
No.	Frequ	iency	Reading	Fact	tor	Level	Li	mit	Margi	in	Detector	P/F
NO.	,	Hz) (dBm)		(dB) -38.12		(dBm)		dBm)	(dB)			P
1		.000	-22.59			-60.71		0.00	-20.7		peak	
2	2346	.000	-17.53	-37.	40	-54.93	-1	3.00	-41.9	3	peak	Р
3	3128	.000	-21.29	-36.	81	-58.10	-1	3.00	-45.1	0	peak	Р

Baı	Band:		Test channel:	: High	est.	est ode:	10M	Polarization:	Н	
No.	-	uency Hz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margi (dB)	n Detector	P/F	
1	1569	.000	-24.25	-38.02	-62.27	-40.00	-22.27	7 peak	Р	
2	2353	3.500	-19.06	-37.30	-56.36	-13.00	-43.36	peak	Р	
3	3138	3.000	-22.79	-36.71	-59.50	-13.00	-46.50) peak	Р	

Ва	Band: 13		nd: 13 Test Highe		ghest	Test mode:	10M	P	olarization:	
No.	Frequ (MF	-	Reading (dBm)	Factor (dB)	Leve (dBi			rgin HB)	Detector	P/F
1	1569	.000	-22.94	-38.02	-60.9	96 -40.0	00 -20	0.96	peak	Р
2	2353	.500	-17.88	-37.30	-55.	18 -13.	00 -42	2.18	peak	Р
3	3138	.000	-21.64	-36.71	-58.3	35 -13.	00 -45	5.35	peak	Р

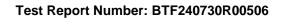




Ва	Band: 17		Test channel	Low		st Tes		1 10		OM	Po	olarization:	H
No.		uency Hz)	Reading (dBm)		etor dB)		vel Sm)	Lim (dB		Marg (dl		Detector	P/F
1	1413	3.000	-19.22	-38.23		-57.45		-13.00		-44.	45	peak	Р
2	2119	2119.500 -17.19 -37.12 -		-54	.31	-13.	00	-41.31		peak	Р		
3	2826	6.000	-18.47	-36	3.55	-55	.02	-13.	00	-42.	02	peak	Р

Ва	Band: 17		Test channel	: Lowest		Test mode:		10M		olarization:	V
No.		uency IHz)	Reading (dBm)	Facto (dB)		vel 1	Limit (dBm)	Marg (dl		Detector	P/F
1	141	3.000	-20.39	-38.2	3 -58	3.62	-13.00	-45.	62	peak	Р
2	211	9.500	-18.91	-37.1	2 -56	6.03	-13.00	-43.	03	peak	Р
3	282	6.000	-20.13	-36.5	5 -56	6.68	-13.00	-43.	68	peak	Р

Baı	Band: 17		Test channel	Test channel: Mide		1e Test mode:		10M		Polarization:	
No.		uency Hz)	Reading (dBm)	Factor (dB)	Lev (dE	_	Limit (dBm)	Mar;		Detector	P/F
1	142	0.000	-20.08	-38.12	-58	.20	-13.00	-45.20		peak	Р
2	213	0.000	-18.05	-37.01	-55	.06	-13.00	-42	.06	peak	Р
3	272	2.000	-19.33	-36.44	-55	.77	-13.00	-42	.77	peak	Р





Ва	3and: 17		and: 17		Test channel:		Middle		1	OM I	Polarization:	V
No.	Frequ (MI	-	Reading (dBm)	Facto (dB)			imit dBm)	Margin (dB)	Detector	P/F		
1	1420	.000	-19.97	-38.12	-58	.09 -1	3.00	-45.09	peak	Р		
2	2130	.000	-18.49	-37.01	-55	.50 -1	3.00	-42.50	peak	Р		
3	2722	.000	-19.71	-36.44	-56	.15 -1	3.00	-43.15	peak	Р		

Ва	Band: 17		and: 17 channel:		Test Highest mode:			10M	Polarization:	Н	
No.		luency 1Hz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F		
1	1427.000		-20.73 -38.01		-58.74	-13.00	-45.74	peak	Р		
2	214	2140.500 -18.70 -36.90		-55.60	-13.00	-42.60	peak	Р			
3	274	2.000	-19.98	-36.33	-56.31	-13.00	-43.31	peak	Р		

Baı	nd:	17	Test channel	l Highest		Test mode:		10M P		olarization:	V
No.	Frequ (MI	-	Reading (dBm)	Factor (dB)	r Lev		Limit (dBm)	Marg (dE		Detector	P/F
1	1427	.000	-19.29 -38.01 -57.3		.30 -	-13.00 -44		30	peak	Р	
2	2140	.500	-17.81	-36.90	-54.	.71 -	13.00	-41.	71	peak	Р
3	2742	.000	-19.03	-36.33	-55.	.36 -	13.00	-42.	36	peak	Р

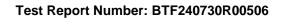




Band: 25 No. Frequency (MHz)		and: 25 Test channel:		:	Lowest Test mode:			1 OM		Polarization:		Н	
		-	Reading (dBm)	Fact		evel dBm)	Lim:		Mara (dl		Detector	P/F	
1	3701	1.400	-20.36	-37.	12 -5	7.48	-13.0	-13.00		48	peak	Р	
2	5552	2.100	-17.79	-34.	23 -5	2.02	-13.00		-39.02		peak	Р	
3	7402	2.800	-19.25	-36.	23 -5	5.48	-13.00		-42	48	peak	Р	

Band: 25		Band: 25		Band: 25		Band: 25		Test Lowe		rest mode:		10M		Po	Polarization:	
No.		uency Hz)	Reading (dBm)	Factor (dB)		vel Bm)	Limi (dBm		Marg (dl		Detector	P/F				
1	3701	1.400	-20.39	-37.12	-57	'.51	-13.00		-44.51		peak	Р				
2	5552	2.100	-18.91	-34.23	-53	3.14	-13.0	0	0 -40.14		peak	Р				
3	7402	2.800	-20.13	-36.23	-56	3.36	-13.0	0	-43.	36	peak	Р				

Band: 2		25	25 Test channel:		l Middle		Test mode:		10M		Polarization:	
No.	Frequency (MHz)		Reading (dBm)	Fact (dB		evel Bm)	Limit (dBm)		Mar (d		Detector	P/F
1	3765	5.000	-21.22	-37.0	01 -5	8.23	-13.00		-45	.23	peak	Р
2	5647	7.500	-18.65	-34.	12 -5	2.77	-13.	00	0 -39.77		peak	Р
3	7530.000		-20.11	1 -36.12		-56.23		-13.00		.23	peak	Р





Band: 25		ıd: 25		: M	iddle	dle I		est de:		Polarization:	v
No.	Frequency (MHz)		Reading (dBm)	_		Level (dBm)		Limit (dBm)		n Detector	P/F
1	3765	.000	-19.97	-37.01	-56	5.98	-13.00		-43.98	peak	Р
2	5647	.500	-18.49	-34.12	-52	2.61	-13.00		-39.61	peak	Р
3	3 7530.000		-19.71 -36.12		-55	5.83	-13.	-13.00		peak	Р

Band:		25	Test channel:	High	est.	est ode:	10M	Polarization:	Н
No.	Frequ (MF	-	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margi (dB)	Detector	P/F
1	3828.600		-21.87	-36.90	-58.77	-13.00	-45.7	7 peak	Р
2	5742	5742.900 -19.30 -34.01 -53.3°		-53.31	-13.00	-40.3	1 peak	Р	
3	7657.200		-20.76	-36.01	-56.77	-13.00	-43.7	7 peak	Р

Band: 25		d: 25 Test Highest		ghest	Test 10M mode:			Polarization:		V	
No.	Frequency (MHz)				Lev (dB		Margin (dB)		Detector	P/F	
1	3828.	.600	-19.29	-36.90	-56.	19 -	13.00	-43.19		peak	Р
2	5742	.900	-17.81	-34.01	-51.	82 -	13.00	-38.8	2	peak	Р
3	7657.200		-19.03	-36.01	-55.	04 -13.00		0 -42.04		peak	Р

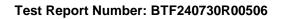




Ва	nd:	26a	Test channel	Low	est	Test mode:	I 15M		Po	larization:	Н	
No.		uency Hz)	Reading (dBm)	Factor (dB)	Leve (dBr		imit dBm)	Mar (d	gin B)	Detector	P/F	
1	1629	1629.400 -21.38 -37.92		-59.3	9.30 -13.00		-46	.30	peak	Р		
2	2444	1.100	-18.66	-37.16	-55.8	82 -1	-13.00		.82	peak	Р	
3	3258	3.800	-19.28	-36.88	-56.	16 -1	3.00	-43	.16	peak	Р	

Ва	nd:	26a	Test channe		Lowest		est ode:	15M	P	olarization:	7
No.	Frequ (Mh	-	Reading (dBm)	Fact		vel Bm)	Limit (dBm)	Mara (dl		Detector	P/F
1	1629	.400	-20.39	-37.9	92 -5	3.31	-13.00	-45.	31	peak	Р
2	2444	.100	-18.91	-37.	16 -5	6.07	-13.00	-43.	07	peak	Р
3	3258	.800	-20.13	-36.8	38 -5	7.01	-13.00	-44.	01	peak	Р

Bar	Band: 26a		Test channel	.:	Middle		st le:	15M	P	olarization:	H
No.	(MHz)		Reading Factor (dBm) (dB)			vel Bm)	Limit (dBm)		gin B)	Detector	P/F
1	,	3.000	-22.24 -37.81 -60.05			-13.00		.05	peak	Р	
2	2457	7.000	-19.52	19.52 -37.05 -5		6.57	-13.00	-43	.57	peak	Р
3	3276.000 -20.14 -36.77		7 -56	6.91	-13.00		.91	peak	Р		





Band: 26a			l Middle l				15M	P	olarization:	V
Frequency (MHz)		Reading (dBm)					_		Detector	P/F
1638.	000	-19.97	-37.81	-57	.78	-13.00) .	44.78	peak	Р
2457.	000	-18.49	-37.05	-55	.54	-13.00) .	42.54	peak	Р
3276.	3276.000 -19.71 -36.77		-56	.48	48 -13.00		43.48	peak	Р	
	Freque (MH 1638. 2457.	Frequency (MHz) 1638.000 2457.000	Frequency Reading (MHz) (dBm) 1638.000 -19.97 2457.000 -18.49	Frequency Reading Factor (MHz) (dBm) (dB) 1638.000 -19.97 -37.81 2457.000 -18.49 -37.05	Frequency Reading Factor Lev (MHz) (dBm) (dB) (dE 1638.000 -19.97 -37.81 -57 2457.000 -18.49 -37.05 -55	Frequency Reading Factor Level (MHz) (dBm) (dB) (dBm) 1638.000 -19.97 -37.81 -57.78 2457.000 -18.49 -37.05 -55.54	Frequency Reading Factor Level Limit (MHz) (dBm) (dBm) (dBm) (dBm) (dBm) 2457.000 -18.49 -37.05 -55.54 -13.00	Frequency Reading Factor Level Limit M (MHz) (dBm) (dB) (dBm) (dBm) (dBm) 1638.000 -19.97 -37.81 -57.78 -13.00 -2457.000 -18.49 -37.05 -55.54 -13.00 -	Frequency Reading Factor Level Limit Margin (MHz) (dBm) (dB) (dBm) (dBm) (dB) (dBm) (dB) 1638.000 -19.97 -37.81 -57.78 -13.00 -44.78 2457.000 -18.49 -37.05 -55.54 -13.00 -42.54	Frequency Reading Factor Level Limit Margin (MHz) (dBm) (dBm

E	Band: 26a		Test channe	H	ighest	Test mode:		15M	Polarization:	Н
								,		
No.	Frequency (MHz)				Factor Leve (dB)		mit Bm)	Margin (dB)	n Detector	P/F
1	1646	.600 -22.89 -37.70		-60.	-60.59 -13.00		-47.59	peak	Р	
2	2469	.900	-20.17	-36.94	-57.	11 -1	3.00	-44.11	peak	Р
3	3293	.200	-20.79	-36.66	-57.4	45 -1	3.00	-44.45	peak	Р

Baı	nd:	26a	Test channel	l: <u> </u>	Highest	Test mode:		15M	Polarization:	V
No.	Frequ (MI	iency Hz)	Reading (dBm)	Facto (dB)	- 1		imit dBm)	Margin (dB)	Detector	P/F
1	1646	.600	-19.29	-37.7	0 -56.	99 -1	3.00	-43.99	peak	Р
2	2469	.900	-17.81	-36.9	4 -54.	75 -1	3.00	-41.75	peak	Р
3	3293	.200	-19.03	-36.6	6 -55.	69 -1	3.00	-42.69	peak	Р

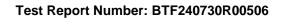




Bai	Band: 26b		Test channel	.: Lowe	Lowest Test mode:			Polarization:	Н	
No.		uency IHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margi (dB)	Detector	P/F	
1	164	1649.400 -21.61 -38.08		-59.69	-13.00	-46.6	9 peak	Р		
2	247	4.100	-19.37	-37.15	-56.52	-13.00	-43.5	2 peak	Р	
3	329	8.800	-20.46	-27.86	-48.32	-13.00	-35.3	2 peak	Р	

Ва	ind:	26b	Test channel:		owest	Test mode:]	15M 1	Polarization:	V
No.	Freque (MH:		Reading (dBm)	Factor	Lev (dB		imit HBm)	Margin (dB)	Detector	P/F
1	1649.4	400	-20.39	-38.08	-58.	47 -1	3.00	-45.47	peak	Р
2	2474.	100	-18.91	-37.15	-56.	06 -1	3.00	-43.06	peak	Р
3	3298.8	300	-20.13	-27.86	-47.	99 -1	3.00	-34.99	peak	Р

Ва	nd:	26b	Test channel	: Middle			Test mode:		M	Polarization:	Н	
No.		uency IHz)	Reading (dBm)	Factor		vel Bm)	Limit		Margin (dB)	Detector	P/F	
1	167	3.000	-22.47	-37.97	-60).44	-13.00		-47.44	peak	Р	
2	250	9.500	-20.23	-37.04	-57	.27	-13.00		-44.27	peak	Р	
3	334	6.000	-21.32	-27.75	-49	0.07	-13.00		-36.07	peak	Р	





Ва	and:	26b	Test Middle channel:		l1e	Test mode:		15M P		Po	olarization:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
No.	Frequ (MI	_	Reading (dBm)	Fact		Leve (dBr		Lim:		Mar (d	gin B)	Detector	P/F
1	1673.000		-19.97	-37.97		-57.9	94	-13.0	00	-44.94		peak	Р
2	2509	2509.500 -18.49 -37.04		04	-55.53 -13.0		00	0 -42.53		peak	Р		
3	3346	.000	-19.71	-27.	75	-47.4	1 6	-13.0	00	-34	.46	peak	Р

Ban	Band: 26		Test channel	.: Hi	Highest		st le:	15M	Polarization:		H
No.		quency 1Hz)	Reading (dBm)	Factor	Lev (dBi		Limit	Marg		Detector	P/F
1	1696.600		-23.12	3.12 -37.86		98	-13.00	-47.	98	peak	Р
2	2544.900 -20.88		-36.93	-57.	81	-13.00	-44.	81	peak	Р	
3	339	3.200	-21.97	-27.64	-49.	61	-13.00	-36.	61	peak	Р

Ba	nd:	26b	Test channe	channel: Highes		Test mode:		15M		olarization:	V
No.		uency Hz)	Reading (dBm)	Facto (dB)			nit Bm)	Marg:		Detector	P/F
1	1696.600 -19.29		-19.29	-37.8	6 -57.	15 -13	-13.00		5	peak	Р
2	2544	44.900 -17.81 -36.93		3 -54.	74 -13	3.00	00 -41.74		peak	Р	
3	3393	3.200	-19.03	-27.6	4 -46.	67 -13	3.00	-33.6	7	peak	Р

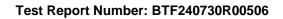




Band:		41	Test channel	:	Lowest		Te mod	ode: 20		OM	Po	larization:	Н
No.		uency Hz)	Reading (dBm)		ctor dB)		vel Bm)	Lim		l	gin B)	Detector	P/F
1	4997	997.000 -21.79		-35.61		-57	-57.40		.00	-32	.40	peak	Р
2	7495	495.500 -18.35 -35		5.93	5.93 -54.2		-25.00		-29	.28	peak	Р	
3	9994	1.000	-16.12	-3	4.13	-50	.25	-25.	.00	-25	.25	peak	Р

Baı	Band: 41		Test channel	.: Lo	west	Test mode:	2	2OM	Polarization:	
No.	Freque (MHz	-	Reading (dBm)	Factor (dB)	Lev (dB		imit (dBm)	Margin (dB)	Detector	P/F
1	4997.0	000	-22.15			76 -	25.00	-32.76	peak	Р
2	7495.5	500	-17.30	-35.93	-53.	23 -	25.00	-28.23	peak	Р
3	9994.0	000	-15.28	-34.13	-49.	41 -	25.00	-24.41	peak	Р

Bar	Band: 41		Test Midd		dd1e	le Test mode:		20	OM	Po	olarization:	I
No.	Frequenc (MHz)	y	Reading (dBm)	Factor	- 1	vel Bm)	Lim (dB		Mar (d	gin B)	Detector	P/F
1	5186.000)	-24.36	-34.85	-59	9.21	-25.	00	-34.21		peak	Р
2	7779.000		-22.28	-35.42	-5	7.70	-25.00		-32	.70	peak	Р
3	10372.00	0	-20.68	-34.05	-54	4.73	-25.	00	-29	.73	peak	Р

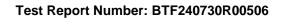




Ва	Band: 41		Test channel	l:	Midd	l1e		est de:	2	OM	Po	olarization:	V
No.	Frequ (MF		Reading (dBm)		tor (B)	Lev (dE		Lim (dB		Mar (d		Detector	P/F
1	5186	.000	-22.66	-35	-35.50		3.16 -25		00	-33.16		peak	Р
2	7779	.000	-17.81	-35	5.82	-53	.63	-25.	00	-28.63		peak	Р
3	10372	2.000	-15.79	-34	.02	-49.	.81	-25.	00	-24.	81	peak	Р

Ba	nd:	41	Test channel:	: High	est.	est ode:	20M	Polarization:	H
No.		uency Hz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	5375	5.000	-23.25	-35.40	-58.65	-25.00	-33.65	peak	Р
2	8062	2.500	-19.81	-19.81 -35.72		-25.00	-30.53	peak	Р
3	1075	0.000	-17.58	-33.92	-51.50	-25.00	-26.50	peak	Р

Baı	Band: 41		Test channel	: Hig	hest	Test mode:	2	COM	Po	olarization:	V
No.	Frequ (MF		Reading (dBm)	Factor (dB)	Leve (dBi		mit Bm)	Marg (dB		Detector	P/F
1	5375	.000	-23.01	-35.40	-58.4	41 -2	5.00	-33.41		peak	Р
2	8062	.500	-18.16	-35.72	-53.	88 -2	5.00	-28.8	38	peak	Р
3	10750	0.000	-16.14	-33.92	-50.0	06 -2	5.00	-25.0	06	peak	Р

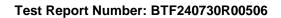




Band: 66		66	Test channel	: Lov	Lowest		st le:	20	OM	Po	larization:	I
					-							
No.	Frequency (MHz)		Reading Factor (dBm) (dB)			Level (dBm)		it m)		gin B)	Detector	P/F
1	3421	.400	-21.93	-37.35	-59	9.28	-13.00		-46	3.28	peak	Р
2	5132.100		-19.49	-34.80	-54	1.29	-13.	00	-41	.29	peak	Р
3	6842	.800	-20.63	-36.23	-56	6.86	-13.	00	-43	3.86	peak	Р

Ba	Band: 66		Test channel	:	Lowest		est de:	2	OM	Po	olarization:	V
No.	Frequ (MI	_	Reading (dBm)	Fact		Level	Lim:		Mar (d	_	Detector	P/F
1	3421	.400	-20.39	-37.	35 -	57.74	-13.0	00	-44	.74	peak	Р
2	5132	.100	-18.91	-34.80		53.71	-13.0	00	-40.71		peak	Р
3	6842	.800	-20.13	-36.	23 -	56.36	-13.0	00	-43	.36	peak	Р

Bar	nd:	66	Test channel	: Mid	dle	Test mode:	20	OM	Po	larization:	Н
No.		quency MHz)	Reading (dBm)	Factor (dB)	Leve (dBi		mit Bm)	Mar (d	_	Detector	P/F
1	349	0.000	-22.79	-37.24	-60.0	03 -13	3.00	-47	.03	peak	Р
2	5235.000		-20.35	-34.69	-55.0	04 -13	3.00	-42	.04	peak	Р
3	698	80.000	-21.49	-36.12	-57.0	61 -13	3.00	-44	.61	peak	Р





Ва	Band: 66		d: Test Middle channel:			est ode:	2	OM	Polarization:	V	
No.	Frequ (MI	iency Hz)	Reading (dBm)	Fact		Level	Lim (dB		Margin (dB)	Detector	P/F
1	3490	.000	-19.97	-37.	24	-57.21	-13.	00	-44.21	peak	Р
2	5235	.000	-18.49	-34.	69	-53.18	-13.	00	-40.18	peak	Р
3	6980	.000	-19.71	-36.	12	-55.83	-13.	00	-42.83	peak	Р

Bai	Band: 66		Test channel	: High	est.	est ode:	20M	Polarization:	I
			- II	- ·			14 .		
No.		uency Hz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	P/F
1	355	3.600	-23.44	-37.13	-60.57	-13.00	-47.57	peak	Р
2	533	7.900	-21.00	-21.00 -34.58		-13.00	-42.58	peak	Р
3	711	7.200	-22.14	-36.01	-58.15	-13.00	-45.15	peak	Р

Baı	Band: 66		Test channel	: Hig	hest	Test mode:	20M	P	olarization:	V
No.	Frequ (MI	iency Hz)	Reading (dBm)	Factor (dB)	Leve (dBn		l l	rgin (dB)	Detector	P/F
1	3558	.600	-19.29	-37.13	-56.4	-13.	00 -4	3.42	peak	Р
2	5337	.900	-17.81	81 -34.58		39 -13.	00 -3	9.39	peak	Р
3	7117	.200	-19.03	-36.01	-55.0)4 -13.	00 -4	2.04	peak	Р

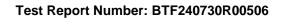




Band: Freque (MH:		71	Test channel	: Lo	west	est mod		20		Po	larization:	Н	
						Level (dBm)		it m)	Margin (dB)		Detector	P/F	
1	1331	.000	-22.20	-37.35	-59	9.55	-13.	00	-46	.55	peak	Р	
2	1996	.500	-20.27	-34.80	-55	5.07	-13.	00	-42	.07	peak	Р	
3	2662	.000	-19.62	-36.23	-55	5.85	-13.	00	-42	.85	peak	Р	

Band:		71 Test channel:		:	Lowest		2	ZOM	Polarization:	V	
No.	Frequ (MF	-	Reading (dBm)	Facto (dB)	- 1	vel Bm)	Limit (dBm)	Margin (dB)	Detector	P/F	
1	1331	.000	-20.39	-37.3	5 -57	7.74	-13.00	-44.74	peak	Р	
2	1996	.500	-18.91	-34.8	0 -53	3.71	-13.00	-40.71	peak	Р	
3	2662	.000	-20.13	-36.2	3 -56	6.36	-13.00	-43.36	peak	Р	

Bai	Band: 71		Test channel	: Mic	ldle I	est de:	20M	Po	olarization:	Н
No.		uency IHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Marg	_	Detector	P/F
1	136	1.000	-23.06	-37.24	-60.30	-13.00	-47.	.30	peak	Р
2	204	1.500	-21.13	-34.69	-55.82	-13.00	-42.	.82	peak	Р
3	272	2.000	-20.48	-36.12	-56.60	-13.00	-43.	.60	peak	Р

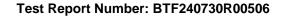




Band: 7		71	Test channel	.: Mid	ldle I	Test mode:		OM 1	Polarization:	V
No.	Freque	-	Reading (dBm)	Factor (dB)	Level (dBm)	Lim (dB		Margin (dB)	Detector	P/F
1	1361.	000	-19.97	-37.24	-57.21	-13.	.00	-44.21	peak	Р
2	2041.	500	-18.49	-34.69	-53.18	-13.	.00	-40.18	peak	Р
3	2722.	000	-19.71	-36.12	-55.83	-13.	.00	-42.83	peak	Р

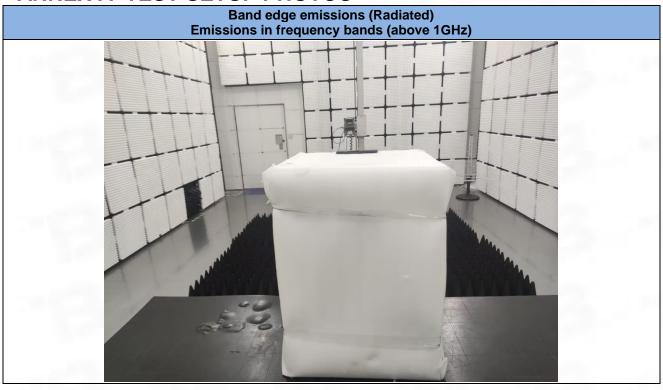
Bar	nd:	71	Test channel:	High	est. I	est de:	20M	Polarization:	Н
.,	Fred	quency	Reading	Factor	Level	Limit	Margin		5 /5
No.		1Hz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	Detector	P/F
1	137	1.000	-23.71	-37.13	-60.84	-13.00	-47.84	peak	Р
2	205	6.500	-21.78	-34.58	-56.36	-13.00	-43.36	peak	Р
3	274	2.000	-21.13	-36.01	-57.14	-13.00	-44.14	peak	Р

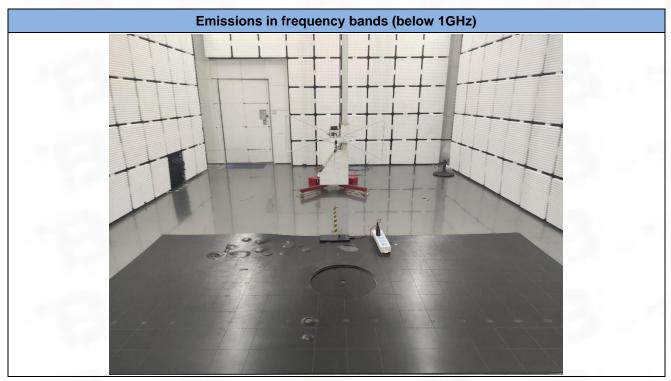
Band: 71		71	Test channel:		lighest	Test mode:	20M	Po]	Polarization:	
No.	Frequ (MH	-	Reading (dBm)	Factor (dB)	Lev (dBr			_	Detector	P/F
1	1371.	000	-19.29	-37.13	-56.4	12 -13.0	00 -43.	.42	peak	Р
2	2056.	500	-17.81	-34.58	-52.3	39 -13.0	00 -39.	.39	peak	Р
3	2742.	000	-19.03	-36.01	-55.0)4 -13.0	00 -42.	.04	peak	Р

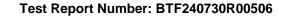




ANNEX A TEST SETUP PHOTOS











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