

FCC TEST REPORT

Client Name : Bizringer Inc.

Address : 1221 E. Dyer Road, Suite 250, Santa Ana, CA. 92705,
USA

Product Name : Car dash cam

Date : May 06, 2021

Shenzhen Anbotech Compliance Laboratory Limited



Shenzhen Anbotech Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,
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TEST REPORT

Applicant : Bizringer Inc.
Manufacturer : Shenzhen Cocolife Technology Co., Ltd
Product Name : Car dash cam
Model No. : EM10
Trade Mark : N.A.
Rating(s) : Input: DC 5V, 3A

Test Standard(s) : FCC PART 2, FCC Part 22(H), FCC Part 24(E), FCC Part 27

Test Method(s) : ANSI C63.26-2015, KDB971168 D01 v03r01

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 22/FCC Part 24/FCC Part 27 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Jan. 21, 2021

Date of Test :

:

Jan. 21~Feb. 27, 2021

Prepared by :

:

Ella Liang

(Engineer / Ella Liang)

Approved & Authorized Signer :

:

Kingkong Jin

(Manager / Kingkong Jin)

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1. General Information

1.1. Client Information

Applicant	:	Bizringer Inc.
Address	:	1221 E. Dyer Road, Suite 250, Santa Ana, CA. 92705, USA
Manufacturer	:	Shenzhen Cocolife Technology Co., Ltd
Address	:	3F, Building A,Ying Ren Shi Wentao Science Park, Baoan District, shenzhen, China
Factory	:	Shenzhen Cocolife Technology Co., Ltd
Address	:	3F, Building A,Ying Ren Shi Wentao Science Park, Baoan District, shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Car dash cam
Model No.	:	EM10
Trade Mark	:	N.A.
Test Power Supply	:	DC 12-48V (Note: This Report only reflect the data of the worst test voltage, namely "DC 12V".)
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Product Description	:	BLE: 2402-2480MHz 2.4G WIFI: 2412MHz~2462MHz / 2422~2452MHz GSM 850: TX:824.2~848.8 MHz PCS 1900: TX:1850.2~1909.8 MHz UMTS Band 2: TX:1852.4~1907.6 MHz UMTS Band 4: TX: 1710 ~ 1755 MHz UMTS Band 5: TX: 826.4 ~ 846.6 MHz: LTE-FDD Band 2: TX: 1850.7 ~ 1909.3 MHz LTE-FDD Band 4: TX:1710.7 ~ 1754.3 MHz LTE-FDD Band 5: TX: 824.7 ~ 848.3 MHz LTE-FDD Band 12: TX: 699.7 ~ 715.3 MHz LTE-FDD Band 17: TX: 706.5 ~ 713.5 MHz FM: 88.1-107.9MHz Transfer Rate: 2.4G WIFI: 802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps

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		802.11n: up to 150Mbps BLE: 1 Mbits/s
	Number of Channel:	BLE: 40 Channels 2.4G WIFI: 11 Channels for 802.11b/g/n(HT20) 7 Channels for 802.11n(HT40) FM: 199 Channels
	Modulation Type:	BLE: GFSK 2.4G WIFI: 802.11b CCK; 802.11g/n OFDM 2G: GMSK for GPRS, 8PSK for EDGE 3G: BPSK, 16QAM 4G: QPSK, 16QAM FM: FM
	Antenna Type:	BT&WIFI/ 2G&3G&4G: PIFA Antenna FM: Linear antenna
	Antenna Gain(Peak):	BLE: 2 dBi 2.4G WIFI: 2 dBi GSM 850: 2 dBi PCS 1900: 2 dBi WCDMA Band 2: 2 dBi WCDMA Band 4: 2 dBi WCDMA Band 5: 2 dBi LTE-FDD Band 2: 2 dBi LTE-FDD Band 4: 2 dBi LTE-FDD Band 5: 2 dBi LTE-FDD Band 12: 2 dBi LTE-FDD Band 17: 2 dBi FM: 1.2 dBi

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2) This report is for GSM&WCDMA<E only.

1.3. Auxiliary Equipment Used During Test

N/A	:	
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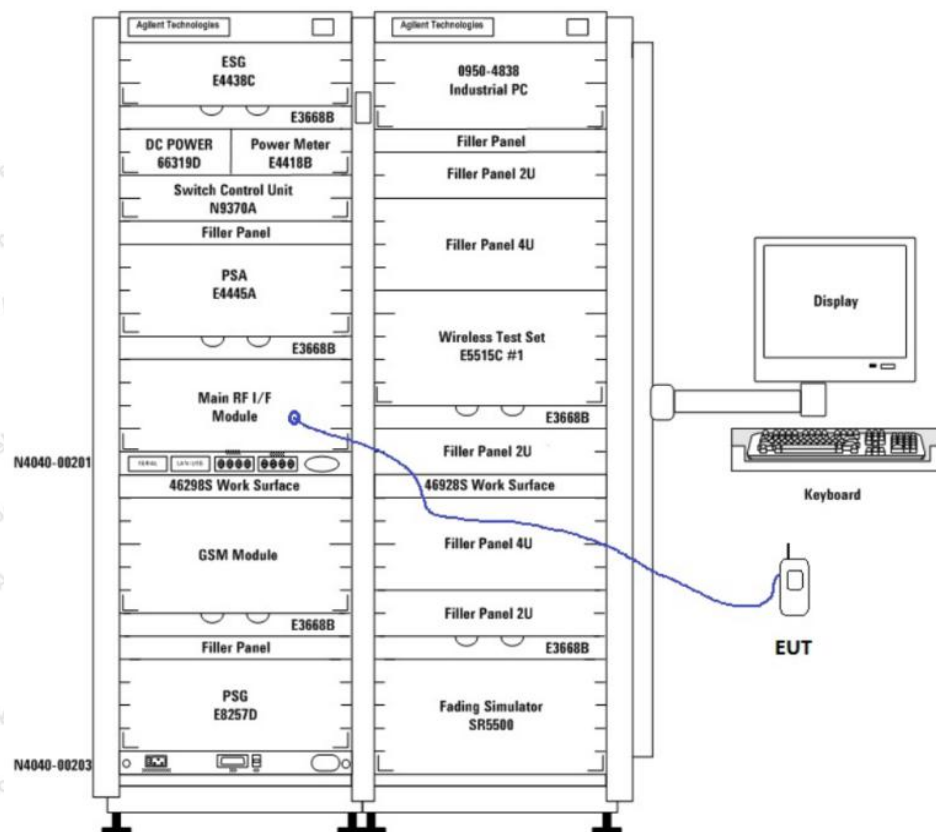
1.4. Description of Test Modes

The following is the description of how the EUT is exercised during testing.

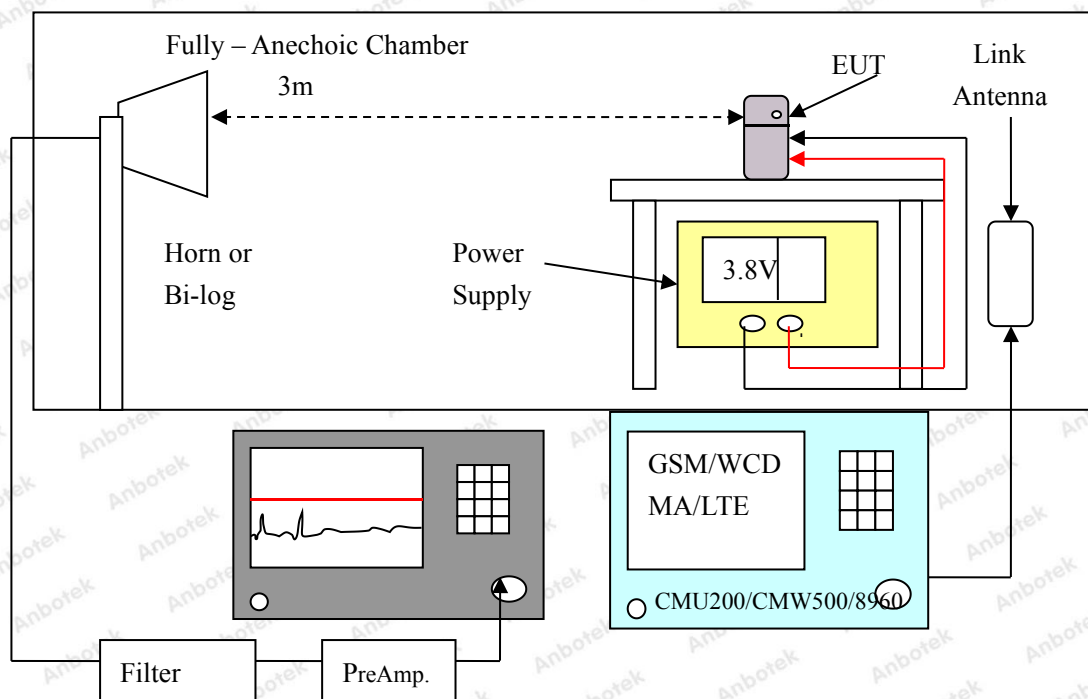
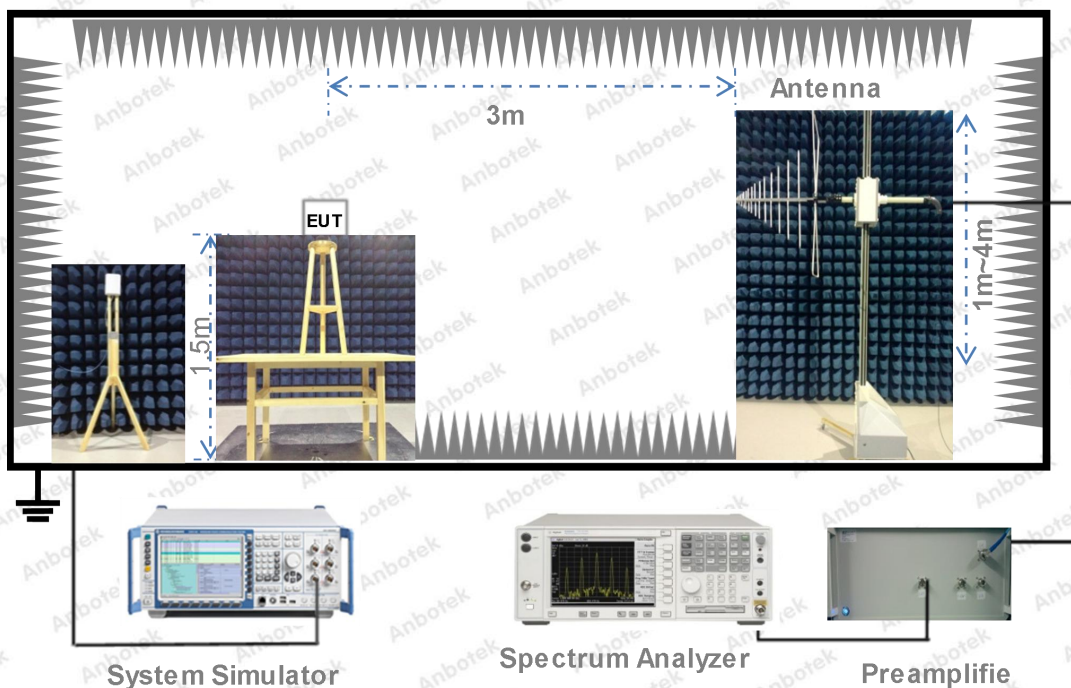
Test	Description Of Operation
Emissions Testing	The EUT was communicating with base station.
Others Testing	The EUT was communicating with base station.

1.5. Description Of Test Setup

1.5.1 Conducted Test Setup



1.5.2 Radiated Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Oct. 26 2020	1 Year
2.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Oct. 26 2020	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Oct. 26 2020	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Oct. 26 2020	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 26 2020	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Oct. 26 2020	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
8.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26 2020	1 Year
9.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 26 2020	1 Year
10.	DC Power Supply	LW	TPR-6420D	374470	Oct. 26 2020	1 Year
11.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 26 2020	1 Year
12.	Universal Radio Communication Tester	Rohde & Schwarz	CMU 200	117888	Oct. 26 2020	1 Year
13.	Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	104209	Oct. 26 2020	1 Year
14.	High-Pass Filter	CDKMV	ZHPF-BM110 0 -4000-0730	B2015094550	Oct. 26 2020	1 Year
15.	High-Pass Filter	CDKMV	ZHPF-M3.5 -18G-3834	1307006523	Oct. 26 2020	1 Year
16.	4 Ch. Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	TW54063507	Oct. 26 2020	1 Year
17.	4 Ch. Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	TW54063513	Oct. 26 2020	1 Year

1.7. Measurement Uncertainty

Maximum measurement uncertainty

Parameter	Uncertainty
RF output power, conducted	$\pm 1,5$ dB
Power Spectral Density, conducted	± 3 dB
Unwanted Emissions, conducted	± 3 dB
All emissions, radiated	± 6 dB
Temperature	± 1 °C
Humidity	± 5 %
DC and low frequency voltages	± 3 %
Time	± 5 %
Confidence interval: 95%. Confidence factor:k=2	

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 30, 2020.

ISED-Registration No.: 8058A

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, September 30, 2020.

Test Location

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2. Summary of Test

2.1. Summary of test result

FCC Rules	Description of Test	Result
§2.1046; § 22.913(a); § 24.232(c); § 27.50(c.10); § 27.50(d.4)	RF Output Power	Compliance
§ 24.232 (d); § 27.50(d)	Peak-Average Ratio	Compliance
§ 2.1047	Modulation Characteristics	N/A
§ 2.1049; § 22.905; § 22.917; § 24.238; § 27.53(a.5)	99% & -26 dB Occupied Bandwidth	Compliance
§ 2.1051; § 22.917(a); § 24.238(a); § 27.53(h)	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053; § 22.917(a); § 24.238(a); § 27.53(h)	Field Strength of Spurious Radiation	Compliance
§ 22.917(a); § 24.238(a); § 27.53(h)	Out of band emission, Band Edge	Compliance
§ 2.1055; § 22.355; § 24.235; § 27.5(h); § 27.54	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different

2.2. Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level in each test mode and channel as below:

Temperature range	21-25℃
Humidity range	40-75%
Pressure range	86-106kPa

Mode	Channel	Frequency(MHz)
GSM 850	128	824.2
	190	836.6
	251	848.8
PCS 1900	512	1850.2
	661	1880.0
	810	1909.8
UMTS BAND V	4132	826.4
	4182	836.4
	4233	846.6
UMTS BAND IV	1312	1712.4
	1413	1732.6
	1513	1752.6
UMTS BAND II	9262	1852.4
	9400	1880.0
	9538	1907.6

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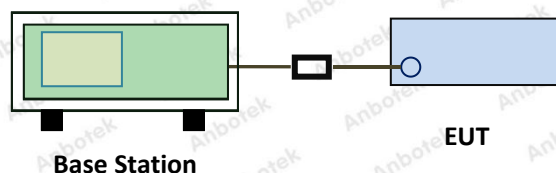
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3. RF Output Power Test

3.1. Test Standard and Limit

Spec	Item	Requirement
§22.913 (a)	a)	ERP:38.5dBm
§24.232 (c)	b)	EIRP:33dBm
§27.50 (c)	c)	EIRP:30dBm

3.2. Test Setup



3.3. Test Procedure

For Conducted Power:

The transmitter output port was connected to base station.

Set EUT at maximum power through base station.

Select lowest, middle, and highest channels for each band and different test mode.

For ERP/EIRP:

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = $10 \log (\text{TX power in Watts}/0.001)$ – the absolute level

Spurious attenuation limit in dB = $43 + 10 \log_{10} (\text{power out in Watts})$.

3.4. Test Data

Please to see the following pages

Conducted Power:

GPRS Mode:

Band	Channel	PCL	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	5	1	29.84	38.5	PASS
GPRS850	128	5	2	29.18	38.5	PASS
GPRS850	128	5	3	27.71	38.5	PASS
GPRS850	128	5	4	27.03	38.5	PASS
GPRS850	190	5	1	33.41	38.5	PASS
GPRS850	190	5	2	32.72	38.5	PASS
GPRS850	190	5	3	31.30	38.5	PASS
GPRS850	190	5	4	30.55	38.5	PASS
GPRS850	251	5	1	29.72	38.5	PASS
GPRS850	251	5	2	28.97	38.5	PASS
GPRS850	251	5	3	27.51	38.5	PASS
GPRS850	251	5	4	26.79	38.5	PASS
GPRS1900	512	0	1	32.00	33	PASS
GPRS1900	512	0	2	31.21	33	PASS
GPRS1900	512	0	3	29.45	33	PASS
GPRS1900	512	0	4	28.32	33	PASS
GPRS1900	661	0	1	30.99	33	PASS
GPRS1900	661	0	2	30.13	33	PASS
GPRS1900	661	0	3	28.18	33	PASS
GPRS1900	661	0	4	27.10	33	PASS
GPRS1900	810	0	1	30.09	33	PASS
GPRS1900	810	0	2	29.18	33	PASS
GPRS1900	810	0	3	27.26	33	PASS
GPRS1900	810	0	4	26.13	33	PASS

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EGPRS Mode:

Band	Channel	PCL	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	8	1	28.54	38.5	PASS
EGPRS850	128	8	2	27.50	38.5	PASS
EGPRS850	128	8	3	24.99	38.5	PASS
EGPRS850	128	8	4	23.80	38.5	PASS
EGPRS850	190	8	1	31.85	38.5	PASS
EGPRS850	190	8	2	30.84	38.5	PASS
EGPRS850	190	8	3	28.48	38.5	PASS
EGPRS850	190	8	4	27.22	38.5	PASS
EGPRS850	251	8	1	28.36	38.5	PASS
EGPRS850	251	8	2	27.20	38.5	PASS
EGPRS850	251	8	3	24.76	38.5	PASS
EGPRS850	251	8	4	23.59	38.5	PASS
EGPRS1900	512	2	1	30.31	33	PASS
EGPRS1900	512	2	2	29.27	33	PASS
EGPRS1900	512	2	3	27.08	33	PASS
EGPRS1900	512	2	4	25.99	33	PASS
EGPRS1900	661	2	1	29.90	33	PASS
EGPRS1900	661	2	2	28.89	33	PASS
EGPRS1900	661	2	3	26.84	33	PASS
EGPRS1900	661	2	4	25.66	33	PASS
EGPRS1900	810	2	1	29.95	33	PASS
EGPRS1900	810	2	2	28.92	33	PASS
EGPRS1900	810	2	3	26.89	33	PASS
EGPRS1900	810	2	4	25.73	33	PASS

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WCDMA Mode:

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	24.47	33	PASS
Band II	9400	23.69	33	PASS
Band II	9538	23.49	33	PASS
Band IV	1312	22.42	30	PASS
Band IV	1413	20.20	30	PASS
Band IV	1513	20.25	30	PASS
Band V	4132	21.79	38.5	PASS
Band V	4182	23.81	38.5	PASS
Band V	4233	21.35	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub1	22.11	33	PASS
Band II	9262	HSDPA_Sub2	21.14	33	PASS
Band II	9262	HSDPA_Sub3	21.37	33	PASS
Band II	9262	HSDPA_Sub4	22.46	33	PASS
Band II	9400	HSDPA_Sub1	22.05	33	PASS
Band II	9400	HSDPA_Sub2	20.65	33	PASS
Band II	9400	HSDPA_Sub3	21.12	33	PASS
Band II	9400	HSDPA_Sub4	21.25	33	PASS
Band II	9538	HSDPA_Sub1	22.77	33	PASS
Band II	9538	HSDPA_Sub2	22.37	33	PASS
Band II	9538	HSDPA_Sub3	20.14	33	PASS
Band II	9538	HSDPA_Sub4	20.25	33	PASS
Band V	4132	HSDPA_Sub1	21.05	38.5	PASS
Band V	4132	HSDPA_Sub2	21.08	38.5	PASS
Band V	4132	HSDPA_Sub3	19.96	38.5	PASS
Band V	4132	HSDPA_Sub4	21.34	38.5	PASS
Band V	4182	HSDPA_Sub1	19.76	38.5	PASS
Band V	4182	HSDPA_Sub2	21.59	38.5	PASS
Band V	4182	HSDPA_Sub3	20.58	38.5	PASS
Band V	4182	HSDPA_Sub4	21.48	38.5	PASS
Band V	4233	HSDPA_Sub1	22.48	38.5	PASS
Band V	4233	HSDPA_Sub2	20.61	38.5	PASS
Band V	4233	HSDPA_Sub3	22.84	38.5	PASS
Band V	4233	HSDPA_Sub4	21.04	38.5	PASS
Band IV	1312	HSDPA_Sub1	20.83	30	PASS
Band IV	1312	HSDPA_Sub2	21.10	30	PASS
Band IV	1312	HSDPA_Sub3	20.03	30	PASS

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Band IV	1312	HSDPA_Sub4	20.55	30	PASS
Band IV	1413	HSDPA_Sub1	20.04	30	PASS
Band IV	1413	HSDPA_Sub2	21.67	30	PASS
Band IV	1413	HSDPA_Sub3	21.09	30	PASS
Band IV	1413	HSDPA_Sub4	20.23	30	PASS
Band IV	1513	HSDPA_Sub1	22.32	30	PASS
Band IV	1513	HSDPA_Sub2	20.81	30	PASS
Band IV	1513	HSDPA_Sub3	22.24	30	PASS
Band IV	1513	HSDPA_Sub4	21.62	30	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	19.92	33	PASS
Band II	9262	HSUPA_Sub2	21.26	33	PASS
Band II	9262	HSUPA_Sub3	21.25	33	PASS
Band II	9262	HSUPA_Sub4	20.82	33	PASS
Band II	9262	HSUPA_Sub5	21.34	33	PASS
Band II	9400	HSUPA_Sub1	21.75	33	PASS
Band II	9400	HSUPA_Sub2	20.27	33	PASS
Band II	9400	HSUPA_Sub3	20.99	33	PASS
Band II	9400	HSUPA_Sub4	21.90	33	PASS
Band II	9400	HSUPA_Sub5	20.43	33	PASS
Band II	9538	HSUPA_Sub1	20.11	33	PASS
Band II	9538	HSUPA_Sub2	20.67	33	PASS
Band II	9538	HSUPA_Sub3	20.58	33	PASS
Band II	9538	HSUPA_Sub4	20.78	33	PASS
Band II	9538	HSUPA_Sub5	21.46	33	PASS
Band V	4132	HSUPA_Sub1	19.66	38.5	PASS
Band V	4132	HSUPA_Sub2	20.20	38.5	PASS
Band V	4132	HSUPA_Sub3	20.19	38.5	PASS
Band V	4132	HSUPA_Sub4	21.15	38.5	PASS
Band V	4132	HSUPA_Sub5	20.32	38.5	PASS
Band V	4182	HSUPA_Sub1	21.25	38.5	PASS
Band V	4182	HSUPA_Sub2	21.24	38.5	PASS
Band V	4182	HSUPA_Sub3	21.75	38.5	PASS
Band V	4182	HSUPA_Sub4	21.60	38.5	PASS
Band V	4182	HSUPA_Sub5	20.48	38.5	PASS
Band V	4233	HSUPA_Sub1	21.77	38.5	PASS
Band V	4233	HSUPA_Sub2	21.13	38.5	PASS
Band V	4233	HSUPA_Sub3	20.78	38.5	PASS

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Band V	4233	HSUPA_Sub4	20.73	38.5	PASS
Band V	4233	HSUPA_Sub5	21.69	38.5	PASS
Band IV	1312	HSUPA_Sub1	19.70	30	PASS
Band IV	1312	HSUPA_Sub2	21.14	30	PASS
Band IV	1312	HSUPA_Sub3	21.32	30	PASS
Band IV	1312	HSUPA_Sub4	21.56	30	PASS
Band IV	1312	HSUPA_Sub5	21.33	30	PASS
Band IV	1413	HSUPA_Sub1	21.38	30	PASS
Band IV	1413	HSUPA_Sub2	20.70	30	PASS
Band IV	1413	HSUPA_Sub3	21.71	30	PASS
Band IV	1413	HSUPA_Sub4	22.33	30	PASS
Band IV	1413	HSUPA_Sub5	21.55	30	PASS
Band IV	1513	HSUPA_Sub1	20.11	30	PASS
Band IV	1513	HSUPA_Sub2	20.93	30	PASS
Band IV	1513	HSUPA_Sub3	21.29	30	PASS
Band IV	1513	HSUPA_Sub4	21.65	30	PASS
Band IV	1513	HSUPA_Sub5	21.39	30	PASS

LTE Mode:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	22.94	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.18	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.09	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	23.11	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	23.03	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	23.04	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.07	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.31	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.41	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.21	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	22.32	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	22.40	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	22.33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.37	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.42	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.38	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.15	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	22.44	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	22.47	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	22.52	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.41	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.82	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.07	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.99	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	21.77	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	21.82	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	21.85	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.05	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.23	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.15	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.38	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	21.09	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	21.17	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	21.09	PASS

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Band2	1.4MHz	16QAM	18900	6RB#0	20.36	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.25	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.46	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	21.34	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	21.26	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	21.28	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.46	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.85	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.42	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.12	PASS
Band2	3MHz	QPSK	18615	8RB#0	22.01	PASS
Band2	3MHz	QPSK	18615	8RB#4	22.00	PASS
Band2	3MHz	QPSK	18615	8RB#7	22.24	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.04	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.53	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.31	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.13	PASS
Band2	3MHz	QPSK	18900	8RB#7	21.29	PASS
Band2	3MHz	QPSK	18900	8RB#0	21.16	PASS
Band2	3MHz	QPSK	18900	8RB#4	21.16	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.21	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.38	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.26	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.04	PASS
Band2	3MHz	QPSK	19185	8RB#7	21.30	PASS
Band2	3MHz	QPSK	19185	8RB#4	21.20	PASS
Band2	3MHz	QPSK	19185	8RB#0	21.20	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.23	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.34	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.90	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.11	PASS
Band2	3MHz	16QAM	18615	8RB#4	21.01	PASS
Band2	3MHz	16QAM	18615	8RB#0	21.00	PASS
Band2	3MHz	16QAM	18615	8RB#7	21.21	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.08	PASS

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Band2	3MHz	16QAM	18900	1RB#0	20.98	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.25	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.11	PASS
Band2	3MHz	16QAM	18900	8RB#7	20.28	FAIL
Band2	3MHz	16QAM	18900	8RB#0	20.16	FAIL
Band2	3MHz	16QAM	18900	8RB#4	20.13	FAIL
Band2	3MHz	16QAM	18900	15RB#0	20.15	FAIL
Band2	3MHz	16QAM	19185	1RB#8	21.28	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.10	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.44	PASS
Band2	3MHz	16QAM	19185	8RB#0	20.24	FAIL
Band2	3MHz	16QAM	19185	8RB#4	20.24	FAIL
Band2	3MHz	16QAM	19185	8RB#7	20.35	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.30	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.46	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.83	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.89	PASS
Band2	5MHz	QPSK	18625	12RB#6	22.07	PASS
Band2	5MHz	QPSK	18625	12RB#0	22.03	PASS
Band2	5MHz	QPSK	18625	12RB#13	22.57	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.32	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.34	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.64	PASS
Band2	5MHz	QPSK	18900	1RB#0	21.97	PASS
Band2	5MHz	QPSK	18900	12RB#0	21.20	PASS
Band2	5MHz	QPSK	18900	12RB#6	21.19	PASS
Band2	5MHz	QPSK	18900	12RB#13	21.46	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.30	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.22	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.39	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.09	PASS
Band2	5MHz	QPSK	19175	12RB#6	21.22	PASS
Band2	5MHz	QPSK	19175	12RB#13	21.26	PASS
Band2	5MHz	QPSK	19175	12RB#0	21.23	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.30	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.80	PASS

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Band2	5MHz	16QAM	18625	1RB#24	22.73	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.32	PASS
Band2	5MHz	16QAM	18625	12RB#0	20.96	PASS
Band2	5MHz	16QAM	18625	12RB#6	20.96	PASS
Band2	5MHz	16QAM	18625	12RB#13	21.55	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.35	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.39	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.67	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.06	PASS
Band2	5MHz	16QAM	18900	12RB#6	20.19	FAIL
Band2	5MHz	16QAM	18900	12RB#0	20.18	FAIL
Band2	5MHz	16QAM	18900	12RB#13	20.41	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.23	FAIL
Band2	5MHz	16QAM	19175	1RB#12	21.18	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.01	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.35	PASS
Band2	5MHz	16QAM	19175	12RB#0	20.23	FAIL
Band2	5MHz	16QAM	19175	12RB#6	20.23	FAIL
Band2	5MHz	16QAM	19175	12RB#13	20.23	FAIL
Band2	5MHz	16QAM	19175	25RB#0	20.34	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.96	PASS
Band2	10MHz	QPSK	18650	1RB#24	24.02	PASS
Band2	10MHz	QPSK	18650	1RB#49	24.97	PASS
Band2	10MHz	QPSK	18650	25RB#12	22.42	PASS
Band2	10MHz	QPSK	18650	25RB#0	22.39	PASS
Band2	10MHz	QPSK	18650	25RB#25	23.57	PASS
Band2	10MHz	QPSK	18650	50RB#0	23.01	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.41	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.43	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.16	PASS
Band2	10MHz	QPSK	18900	25RB#25	21.74	PASS
Band2	10MHz	QPSK	18900	25RB#0	21.20	PASS
Band2	10MHz	QPSK	18900	25RB#12	21.19	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.41	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.35	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.15	PASS

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Band2	10MHz	QPSK	19150	1RB#0	22.84	PASS
Band2	10MHz	QPSK	19150	25RB#0	21.60	PASS
Band2	10MHz	QPSK	19150	25RB#25	21.04	PASS
Band2	10MHz	QPSK	19150	25RB#12	21.57	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.40	PASS
Band2	10MHz	16QAM	18650	1RB#24	23.03	PASS
Band2	10MHz	16QAM	18650	1RB#49	23.92	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.96	PASS
Band2	10MHz	16QAM	18650	25RB#25	22.52	PASS
Band2	10MHz	16QAM	18650	25RB#12	21.35	PASS
Band2	10MHz	16QAM	18650	25RB#0	21.38	PASS
Band2	10MHz	16QAM	18650	50RB#0	22.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.26	PASS
Band2	10MHz	16QAM	18900	1RB#0	20.98	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.27	PASS
Band2	10MHz	16QAM	18900	25RB#25	20.77	PASS
Band2	10MHz	16QAM	18900	25RB#0	20.25	FAIL
Band2	10MHz	16QAM	18900	25RB#12	20.21	FAIL
Band2	10MHz	16QAM	18900	50RB#0	20.44	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.29	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.88	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.44	PASS
Band2	10MHz	16QAM	19150	25RB#25	20.10	FAIL
Band2	10MHz	16QAM	19150	25RB#0	20.59	PASS
Band2	10MHz	16QAM	19150	25RB#12	20.59	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.34	PASS
Band2	15MHz	QPSK	18675	1RB#74	24.68	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.97	PASS
Band2	15MHz	QPSK	18675	1RB#38	24.66	PASS
Band2	15MHz	QPSK	18675	38RB#37	23.65	PASS
Band2	15MHz	QPSK	18675	38RB#18	23.63	PASS
Band2	15MHz	QPSK	18675	38RB#0	21.98	PASS
Band2	15MHz	QPSK	18675	75RB#0	23.53	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.28	PASS
Band2	15MHz	QPSK	18900	1RB#74	24.05	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.33	PASS

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Band2	15MHz	QPSK	18900	38RB#18	21.44	PASS
Band2	15MHz	QPSK	18900	38RB#37	23.26	PASS
Band2	15MHz	QPSK	18900	38RB#0	21.45	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.75	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.29	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.42	PASS
Band2	15MHz	QPSK	19125	1RB#0	24.39	PASS
Band2	15MHz	QPSK	19125	38RB#0	23.35	PASS
Band2	15MHz	QPSK	19125	38RB#37	21.34	PASS
Band2	15MHz	QPSK	19125	38RB#18	21.46	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.93	PASS
Band2	15MHz	16QAM	18675	1RB#74	23.71	PASS
Band2	15MHz	16QAM	18675	1RB#38	23.65	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.93	PASS
Band2	15MHz	16QAM	18675	38RB#18	23.65	PASS
Band2	15MHz	16QAM	18675	38RB#0	21.96	PASS
Band2	15MHz	16QAM	18675	38RB#37	23.69	PASS
Band2	15MHz	16QAM	18675	75RB#0	22.40	PASS
Band2	15MHz	16QAM	18900	1RB#74	23.22	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.43	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.42	PASS
Band2	15MHz	16QAM	18900	38RB#37	23.20	PASS
Band2	15MHz	16QAM	18900	38RB#18	21.43	PASS
Band2	15MHz	16QAM	18900	38RB#0	21.48	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.73	PASS
Band2	15MHz	16QAM	19125	1RB#0	23.39	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.37	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.48	PASS
Band2	15MHz	16QAM	19125	38RB#0	23.36	PASS
Band2	15MHz	16QAM	19125	38RB#18	21.47	PASS
Band2	15MHz	16QAM	19125	38RB#37	21.35	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.87	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.99	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.34	PASS
Band2	20MHz	QPSK	18700	1RB#49	25.25	PASS
Band2	20MHz	QPSK	18700	50RB#0	23.14	PASS

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Band2	20MHz	QPSK	18700	50RB#25	23.16	PASS
Band2	20MHz	QPSK	18700	50RB#50	23.57	PASS
Band2	20MHz	QPSK	18700	100RB#0	23.37	PASS
Band2	20MHz	QPSK	18900	1RB#99	24.72	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.41	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.80	PASS
Band2	20MHz	QPSK	18900	50RB#50	22.48	PASS
Band2	20MHz	QPSK	18900	50RB#25	21.37	PASS
Band2	20MHz	QPSK	18900	50RB#0	21.36	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.94	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.16	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.21	PASS
Band2	20MHz	QPSK	19100	1RB#0	25.19	PASS
Band2	20MHz	QPSK	19100	50RB#25	23.44	PASS
Band2	20MHz	QPSK	19100	50RB#0	23.46	PASS
Band2	20MHz	QPSK	19100	50RB#50	21.13	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.54	PASS
Band2	20MHz	16QAM	18700	1RB#49	24.06	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.20	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.82	PASS
Band2	20MHz	16QAM	18700	50RB#0	22.12	PASS
Band2	20MHz	16QAM	18700	50RB#50	22.61	PASS
Band2	20MHz	16QAM	18700	50RB#25	22.09	PASS
Band2	20MHz	16QAM	18700	100RB#0	22.33	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.56	PASS
Band2	20MHz	16QAM	18900	1RB#99	23.79	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.84	PASS
Band2	20MHz	16QAM	18900	50RB#25	20.37	PASS
Band2	20MHz	16QAM	18900	50RB#0	20.40	PASS
Band2	20MHz	16QAM	18900	50RB#50	21.50	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.87	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.13	PASS
Band2	20MHz	16QAM	19100	1RB#0	24.06	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.11	PASS
Band2	20MHz	16QAM	19100	50RB#0	22.43	PASS
Band2	20MHz	16QAM	19100	50RB#50	20.17	FAIL

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Band2	20MHz	16QAM	19100	50RB#25	22.43	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.53	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	24.26	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	24.61	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	24.50	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	24.16	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	24.61	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	24.50	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	23.18	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	24.80	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	24.99	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	25.06	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	24.94	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	24.94	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	25.06	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	24.02	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.24	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.43	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.41	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.30	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.20	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.29	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	23.47	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.42	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	23.18	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.95	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	23.45	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	23.17	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	22.27	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.70	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.98	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.94	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	23.73	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	23.85	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	23.72	PASS

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Band4	1.4MHz	16QAM	20175	6RB#0	22.97	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.32	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.28	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.13	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.02	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.10	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.04	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.21	FAIL
Band4	3MHz	QPSK	19965	1RB#0	24.13	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.64	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.28	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.54	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.90	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.93	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.66	PASS
Band4	3MHz	QPSK	20175	1RB#8	24.63	PASS
Band4	3MHz	QPSK	20175	1RB#0	24.59	PASS
Band4	3MHz	QPSK	20175	1RB#14	24.87	PASS
Band4	3MHz	QPSK	20175	8RB#7	24.06	PASS
Band4	3MHz	QPSK	20175	8RB#4	23.72	PASS
Band4	3MHz	QPSK	20175	8RB#0	23.65	PASS
Band4	3MHz	QPSK	20175	15RB#0	23.91	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.17	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.09	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.05	PASS
Band4	3MHz	QPSK	20385	8RB#4	20.78	PASS
Band4	3MHz	QPSK	20385	8RB#0	20.74	PASS
Band4	3MHz	QPSK	20385	8RB#7	20.91	PASS
Band4	3MHz	QPSK	20385	15RB#0	20.78	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.27	PASS
Band4	3MHz	16QAM	19965	1RB#0	23.16	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.65	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.91	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.93	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.48	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.65	PASS

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Band4	3MHz	16QAM	20175	1RB#14	23.98	PASS
Band4	3MHz	16QAM	20175	1RB#0	23.40	PASS
Band4	3MHz	16QAM	20175	1RB#8	23.50	PASS
Band4	3MHz	16QAM	20175	8RB#7	23.13	PASS
Band4	3MHz	16QAM	20175	8RB#4	22.85	PASS
Band4	3MHz	16QAM	20175	8RB#0	22.78	PASS
Band4	3MHz	16QAM	20175	15RB#0	22.92	PASS
Band4	3MHz	16QAM	20385	1RB#8	20.74	PASS
Band4	3MHz	16QAM	20385	1RB#0	20.87	PASS
Band4	3MHz	16QAM	20385	1RB#14	20.80	PASS
Band4	3MHz	16QAM	20385	8RB#7	19.94	FAIL
Band4	3MHz	16QAM	20385	8RB#0	19.71	FAIL
Band4	3MHz	16QAM	20385	8RB#4	19.65	FAIL
Band4	3MHz	16QAM	20385	15RB#0	19.69	FAIL
Band4	5MHz	QPSK	19975	1RB#0	24.13	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.32	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.68	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.74	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.02	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.76	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.36	PASS
Band4	5MHz	QPSK	20175	1RB#24	24.89	PASS
Band4	5MHz	QPSK	20175	1RB#12	24.58	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.88	PASS
Band4	5MHz	QPSK	20175	12RB#0	23.30	PASS
Band4	5MHz	QPSK	20175	12RB#13	23.76	PASS
Band4	5MHz	QPSK	20175	12RB#6	23.33	PASS
Band4	5MHz	QPSK	20175	25RB#0	23.51	PASS
Band4	5MHz	QPSK	20375	1RB#12	21.69	PASS
Band4	5MHz	QPSK	20375	1RB#24	21.88	PASS
Band4	5MHz	QPSK	20375	1RB#0	21.85	PASS
Band4	5MHz	QPSK	20375	12RB#13	20.80	PASS
Band4	5MHz	QPSK	20375	12RB#6	20.58	PASS
Band4	5MHz	QPSK	20375	12RB#0	20.57	PASS
Band4	5MHz	QPSK	20375	25RB#0	20.68	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.30	PASS

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Band4	5MHz	16QAM	19975	1RB#0	23.03	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.58	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.98	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.69	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.69	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.40	PASS
Band4	5MHz	16QAM	20175	1RB#24	23.83	PASS
Band4	5MHz	16QAM	20175	1RB#12	23.52	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.75	PASS
Band4	5MHz	16QAM	20175	12RB#6	22.50	PASS
Band4	5MHz	16QAM	20175	12RB#13	22.77	PASS
Band4	5MHz	16QAM	20175	12RB#0	22.35	PASS
Band4	5MHz	16QAM	20175	25RB#0	22.48	PASS
Band4	5MHz	16QAM	20375	1RB#24	20.93	PASS
Band4	5MHz	16QAM	20375	1RB#0	20.58	PASS
Band4	5MHz	16QAM	20375	1RB#12	20.69	PASS
Band4	5MHz	16QAM	20375	12RB#13	19.77	FAIL
Band4	5MHz	16QAM	20375	12RB#6	19.57	FAIL
Band4	5MHz	16QAM	20375	12RB#0	19.53	FAIL
Band4	5MHz	16QAM	20375	25RB#0	19.62	FAIL
Band4	10MHz	QPSK	20000	1RB#0	24.01	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.77	PASS
Band4	10MHz	QPSK	20000	1RB#49	21.92	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.33	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.29	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.33	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.81	PASS
Band4	10MHz	QPSK	20175	1RB#24	24.69	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.18	PASS
Band4	10MHz	QPSK	20175	1RB#49	24.93	PASS
Band4	10MHz	QPSK	20175	25RB#25	23.98	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.99	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.98	PASS
Band4	10MHz	QPSK	20175	50RB#0	23.43	PASS
Band4	10MHz	QPSK	20350	1RB#24	21.76	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.52	PASS

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Band4	10MHz	QPSK	20350	1RB#49	21.93	PASS
Band4	10MHz	QPSK	20350	25RB#25	20.79	PASS
Band4	10MHz	QPSK	20350	25RB#12	20.97	PASS
Band4	10MHz	QPSK	20350	25RB#0	20.98	PASS
Band4	10MHz	QPSK	20350	50RB#0	20.87	PASS
Band4	10MHz	16QAM	20000	1RB#49	20.92	PASS
Band4	10MHz	16QAM	20000	1RB#0	23.07	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.73	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.28	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.25	FAIL
Band4	10MHz	16QAM	20000	25RB#12	21.31	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.76	PASS
Band4	10MHz	16QAM	20175	1RB#24	23.67	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.15	PASS
Band4	10MHz	16QAM	20175	1RB#49	23.94	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.98	PASS
Band4	10MHz	16QAM	20175	25RB#25	23.10	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.98	PASS
Band4	10MHz	16QAM	20175	50RB#0	22.47	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.18	PASS
Band4	10MHz	16QAM	20350	1RB#24	20.59	PASS
Band4	10MHz	16QAM	20350	1RB#49	20.79	PASS
Band4	10MHz	16QAM	20350	25RB#0	19.99	FAIL
Band4	10MHz	16QAM	20350	25RB#12	19.98	FAIL
Band4	10MHz	16QAM	20350	25RB#25	19.77	FAIL
Band4	10MHz	16QAM	20350	50RB#0	19.84	FAIL
Band4	15MHz	QPSK	20025	1RB#0	23.91	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.05	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.19	PASS
Band4	15MHz	QPSK	20025	38RB#37	21.16	PASS
Band4	15MHz	QPSK	20025	38RB#18	21.06	PASS
Band4	15MHz	QPSK	20025	38RB#0	22.88	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.44	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.63	PASS
Band4	15MHz	QPSK	20175	1RB#74	24.26	PASS
Band4	15MHz	QPSK	20175	1RB#38	24.59	PASS

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Band4	15MHz	QPSK	20175	38RB#37	23.32	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.41	PASS
Band4	15MHz	QPSK	20175	38RB#18	23.59	PASS
Band4	15MHz	QPSK	20175	75RB#0	23.26	PASS
Band4	15MHz	QPSK	20325	1RB#38	21.75	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.85	PASS
Band4	15MHz	QPSK	20325	1RB#74	21.65	PASS
Band4	15MHz	QPSK	20325	38RB#0	22.88	PASS
Band4	15MHz	QPSK	20325	38RB#18	20.84	PASS
Band4	15MHz	QPSK	20325	38RB#37	20.77	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.30	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.05	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.96	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.15	PASS
Band4	15MHz	16QAM	20025	38RB#0	22.92	PASS
Band4	15MHz	16QAM	20025	38RB#37	21.14	PASS
Band4	15MHz	16QAM	20025	38RB#18	21.06	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.38	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.44	PASS
Band4	15MHz	16QAM	20175	1RB#38	23.57	PASS
Band4	15MHz	16QAM	20175	1RB#74	23.29	PASS
Band4	15MHz	16QAM	20175	38RB#18	23.59	PASS
Band4	15MHz	16QAM	20175	38RB#0	21.45	PASS
Band4	15MHz	16QAM	20175	38RB#37	23.31	PASS
Band4	15MHz	16QAM	20175	75RB#0	22.25	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.95	PASS
Band4	15MHz	16QAM	20325	1RB#38	20.85	PASS
Band4	15MHz	16QAM	20325	1RB#74	20.79	PASS
Band4	15MHz	16QAM	20325	38RB#0	22.87	PASS
Band4	15MHz	16QAM	20325	38RB#18	20.92	PASS
Band4	15MHz	16QAM	20325	38RB#37	20.79	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.27	FAIL
Band4	20MHz	QPSK	20050	1RB#0	23.73	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.01	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.33	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.59	PASS

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Band4	20MHz	QPSK	20050	50RB#0	21.38	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.41	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.43	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.37	PASS
Band4	20MHz	QPSK	20175	1RB#49	24.87	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.30	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.48	PASS
Band4	20MHz	QPSK	20175	50RB#50	23.71	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.58	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.92	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.49	PASS
Band4	20MHz	QPSK	20300	1RB#99	21.58	PASS
Band4	20MHz	QPSK	20300	1RB#0	24.94	PASS
Band4	20MHz	QPSK	20300	50RB#0	23.05	PASS
Band4	20MHz	QPSK	20300	50RB#25	23.06	PASS
Band4	20MHz	QPSK	20300	50RB#50	20.77	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.12	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.56	PASS
Band4	20MHz	16QAM	20050	1RB#49	20.94	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.24	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.40	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.37	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.63	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.39	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.37	PASS
Band4	20MHz	16QAM	20175	1RB#0	20.84	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.66	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.48	PASS
Band4	20MHz	16QAM	20175	50RB#50	22.60	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.55	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.91	PASS
Band4	20MHz	16QAM	20300	1RB#0	23.88	PASS
Band4	20MHz	16QAM	20300	1RB#99	20.61	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.66	PASS
Band4	20MHz	16QAM	20300	50RB#50	19.74	FAIL
Band4	20MHz	16QAM	20300	50RB#25	22.08	PASS

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Band4	20MHz	16QAM	20300	50RB#0	22.08	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.09	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	22.22	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.42	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.47	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.38	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.37	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.47	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.41	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.81	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.99	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.93	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	24.94	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	25.03	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	25.02	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.99	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.56	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.50	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.55	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.60	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.59	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.51	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.40	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.19	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.20	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.21	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.26	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.39	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.86	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.80	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.97	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	23.76	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	23.84	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	23.82	PASS

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Band5	1.4MHz	16QAM	20525	6RB#0	22.95	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.37	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.27	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.46	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.44	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.37	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.37	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.66	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.98	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.36	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.48	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.43	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.83	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.61	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.93	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.77	PASS
Band5	3MHz	QPSK	20525	1RB#0	25.29	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.99	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.98	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.95	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.98	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.58	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.51	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.80	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.67	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.54	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.62	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.67	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.40	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.00	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.68	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.53	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.52	PASS
Band5	3MHz	16QAM	20415	8RB#7	20.89	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.66	PASS

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Band5	3MHz	16QAM	20525	1RB#8	23.94	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.86	PASS
Band5	3MHz	16QAM	20525	1RB#0	24.06	PASS
Band5	3MHz	16QAM	20525	8RB#4	23.04	PASS
Band5	3MHz	16QAM	20525	8RB#0	23.00	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.97	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.98	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.53	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.73	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.34	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.66	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.67	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.57	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.55	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.30	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.07	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.56	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.52	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.52	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.30	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.96	PASS
Band5	5MHz	QPSK	20525	1RB#12	25.07	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.58	PASS
Band5	5MHz	QPSK	20525	1RB#0	25.47	PASS
Band5	5MHz	QPSK	20525	12RB#13	23.86	PASS
Band5	5MHz	QPSK	20525	12RB#0	24.00	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.99	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.94	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.39	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.73	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.21	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.96	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.74	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.97	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.83	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.95	PASS

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Band5	5MHz	16QAM	20425	1RB#24	22.55	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.32	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.28	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.52	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.48	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.00	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.99	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.92	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.56	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.74	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.97	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.98	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.99	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.88	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.20	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.52	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.75	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.03	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.04	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.86	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.91	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.60	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.92	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.33	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.06	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.08	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.95	PASS
Band5	10MHz	QPSK	20525	1RB#24	25.13	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.03	PASS
Band5	10MHz	QPSK	20525	1RB#0	25.13	PASS
Band5	10MHz	QPSK	20525	25RB#12	24.02	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.61	PASS
Band5	10MHz	QPSK	20525	25RB#0	24.01	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.79	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.57	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.45	PASS

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Band5	10MHz	QPSK	20600	1RB#0	24.46	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.08	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.09	PASS
Band5	10MHz	QPSK	20600	25RB#12	23.06	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.62	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.71	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.72	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.30	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.15	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.07	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.49	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.96	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.06	PASS
Band5	10MHz	16QAM	20525	1RB#24	24.15	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.92	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.60	PASS
Band5	10MHz	16QAM	20525	25RB#12	23.00	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.99	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.79	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.26	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.40	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.19	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.08	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.10	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.10	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.64	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	21.95	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.10	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.12	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.04	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.04	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.12	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.06	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.14	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.14	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.82	PASS

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Band12	1.4MHz	QPSK	23095	3RB#0	23.93	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.93	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	24.21	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.98	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	24.50	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.76	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.72	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	24.81	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	24.82	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	24.72	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.74	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	20.86	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	20.94	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.06	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	20.89	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	20.92	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	20.87	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	19.92	FAIL
Band12	1.4MHz	16QAM	23095	1RB#2	22.96	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.91	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.61	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.72	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.73	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.91	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.04	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.52	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.71	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.73	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	23.60	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	23.48	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	23.60	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.32	PASS
Band12	3MHz	QPSK	23025	1RB#0	21.95	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.18	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.19	PASS

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Band12	3MHz	QPSK	23025	8RB#0	20.99	PASS
Band12	3MHz	QPSK	23025	8RB#4	20.99	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.11	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.60	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.42	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.08	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.73	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.73	PASS
Band12	3MHz	QPSK	23095	8RB#7	23.16	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.94	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.91	PASS
Band12	3MHz	QPSK	23165	1RB#8	24.75	PASS
Band12	3MHz	QPSK	23165	1RB#14	24.56	PASS
Band12	3MHz	QPSK	23165	8RB#7	23.64	PASS
Band12	3MHz	QPSK	23165	8RB#4	23.90	PASS
Band12	3MHz	QPSK	23165	8RB#0	23.84	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.71	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.00	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.14	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.34	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.23	FAIL
Band12	3MHz	16QAM	23025	8RB#0	20.06	FAIL
Band12	3MHz	16QAM	23025	8RB#4	20.05	FAIL
Band12	3MHz	16QAM	23025	15RB#0	20.14	FAIL
Band12	3MHz	16QAM	23095	1RB#0	22.47	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.90	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.29	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.76	PASS
Band12	3MHz	16QAM	23095	8RB#7	22.18	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.75	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.91	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.57	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.38	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.69	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.86	PASS
Band12	3MHz	16QAM	23165	8RB#0	22.85	PASS

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Band12	3MHz	16QAM	23165	8RB#7	22.64	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.68	PASS
Band12	5MHz	QPSK	23035	1RB#0	21.97	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.39	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.51	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.10	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.09	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.37	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.02	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.22	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.57	PASS
Band12	5MHz	QPSK	23095	12RB#13	23.41	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.69	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.71	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.14	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.88	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.94	PASS
Band12	5MHz	QPSK	23155	1RB#24	24.54	PASS
Band12	5MHz	QPSK	23155	12RB#6	23.85	PASS
Band12	5MHz	QPSK	23155	12RB#0	23.90	PASS
Band12	5MHz	QPSK	23155	12RB#13	23.64	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.78	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.71	PASS
Band12	5MHz	16QAM	23035	1RB#0	20.93	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.36	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.05	FAIL
Band12	5MHz	16QAM	23035	12RB#0	20.03	FAIL
Band12	5MHz	16QAM	23035	12RB#13	20.46	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.35	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.66	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.29	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.19	PASS
Band12	5MHz	16QAM	23095	12RB#13	22.48	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.74	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.72	PASS

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Band12	5MHz	16QAM	23095	25RB#0	22.08	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.89	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.78	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.42	PASS
Band12	5MHz	16QAM	23155	12RB#13	22.66	PASS
Band12	5MHz	16QAM	23155	12RB#0	22.86	PASS
Band12	5MHz	16QAM	23155	12RB#6	22.87	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.81	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.53	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.58	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.82	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.89	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.98	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.87	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.45	PASS
Band12	10MHz	QPSK	23095	1RB#49	25.52	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.45	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.10	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.92	PASS
Band12	10MHz	QPSK	23095	25RB#25	24.41	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.97	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.73	PASS
Band12	10MHz	QPSK	23130	1RB#24	25.54	PASS
Band12	10MHz	QPSK	23130	1RB#49	25.12	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.11	PASS
Band12	10MHz	QPSK	23130	25RB#25	24.42	PASS
Band12	10MHz	QPSK	23130	25RB#12	23.83	PASS
Band12	10MHz	QPSK	23130	25RB#0	23.79	PASS
Band12	10MHz	QPSK	23130	50RB#0	24.16	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.43	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.42	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.68	PASS
Band12	10MHz	16QAM	23060	25RB#25	22.04	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.95	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.97	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.47	PASS

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Band12	10MHz	16QAM	23095	1RB#49	24.29	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.33	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.88	PASS
Band12	10MHz	16QAM	23095	25RB#12	22.01	PASS
Band12	10MHz	16QAM	23095	25RB#25	23.47	PASS
Band12	10MHz	16QAM	23095	25RB#0	22.00	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	24.14	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.15	PASS
Band12	10MHz	16QAM	23130	1RB#24	24.51	PASS
Band12	10MHz	16QAM	23130	25RB#25	23.43	PASS
Band12	10MHz	16QAM	23130	25RB#12	22.83	PASS
Band12	10MHz	16QAM	23130	25RB#0	22.83	PASS
Band12	10MHz	16QAM	23130	50RB#0	23.19	PASS
Band17	5MHz	QPSK	23755	1RB#0	22.88	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.76	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.26	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.28	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.91	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.28	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.57	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.61	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.97	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.79	PASS
Band17	5MHz	QPSK	23790	12RB#13	23.90	PASS
Band17	5MHz	QPSK	23790	12RB#6	23.25	PASS
Band17	5MHz	QPSK	23790	12RB#0	23.28	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.67	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.86	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.43	PASS
Band17	5MHz	QPSK	23825	12RB#13	23.58	PASS
Band17	5MHz	QPSK	23825	12RB#6	23.78	PASS
Band17	5MHz	QPSK	23825	12RB#0	23.79	PASS
Band17	5MHz	QPSK	23825	25RB#0	23.72	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.18	PASS

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Band17	5MHz	16QAM	23755	1RB#0	21.84	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.61	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.23	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.89	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.22	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.60	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.71	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.03	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.88	PASS
Band17	5MHz	16QAM	23790	12RB#0	22.28	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.87	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.26	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.64	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.66	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.79	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.38	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.75	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.74	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.61	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.74	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.93	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.52	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.86	PASS
Band17	10MHz	QPSK	23780	25RB#25	24.02	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.79	PASS
Band17	10MHz	QPSK	23780	50RB#0	23.46	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.24	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.73	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.64	PASS
Band17	10MHz	QPSK	23790	25RB#25	23.97	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.97	PASS
Band17	10MHz	QPSK	23790	25RB#12	23.01	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.55	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.93	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.55	PASS

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Band17	10MHz	QPSK	23800	1RB#49	24.54	PASS
Band17	10MHz	QPSK	23800	25RB#0	23.21	PASS
Band17	10MHz	QPSK	23800	25RB#12	23.21	PASS
Band17	10MHz	QPSK	23800	25RB#25	23.78	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.56	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.32	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.84	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.76	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.81	PASS
Band17	10MHz	16QAM	23780	25RB#25	23.02	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.80	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.50	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.01	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.52	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.55	PASS
Band17	10MHz	16QAM	23790	25RB#12	22.03	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.04	PASS
Band17	10MHz	16QAM	23790	25RB#25	22.97	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.57	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.58	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.90	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.57	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.19	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.22	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.79	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.53	PASS

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Radiated Output power:**ERP for Cellular Band (Part 22H)****GPRS Mode**

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	24.18	V	6.8	0.53	30.45	38.45
824.2	23.42	H	6.8	0.53	29.69	38.45
836.6	23.47	V	6.8	0.53	29.74	38.45
836.6	23.58	H	6.8	0.53	29.85	38.45
848.8	23.43	V	6.9	0.53	29.80	38.45
848.8	21.60	H	6.9	0.53	27.97	38.45

EGPRS Mode

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	23.74	V	6.8	0.53	30.01	38.45
824.2	24.09	H	6.8	0.53	30.36	38.45
836.6	22.30	V	6.8	0.53	28.57	38.45
836.6	22.79	H	6.8	0.53	29.06	38.45
848.8	22.74	V	6.9	0.53	29.11	38.45
848.8	22.68	H	6.9	0.53	29.05	38.45

ERP for UMTS-FDD Band V (Part 22H)**WCDMA Mode**

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	14.15	V	6.8	0.53	20.42	38.45
826.4	15.69	H	6.8	0.53	21.96	38.45
836.4	14.82	V	6.8	0.53	21.09	38.45
836.4	13.56	H	6.8	0.53	19.83	38.45
846.6	13.57	V	6.9	0.53	19.94	38.45
846.6	14.46	H	6.9	0.53	20.83	38.45

HSDPA Mode

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	14.79	V	6.8	0.53	21.06	38.45
826.4	13.55	H	6.8	0.53	19.82	38.45
836.4	14.64	V	6.8	0.53	20.91	38.45
836.4	14.85	H	6.8	0.53	21.12	38.45
846.6	14.32	V	6.9	0.53	20.69	38.45
846.6	14.76	H	6.9	0.53	21.13	38.45

HSUPA Mode

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	14.84	V	6.8	0.53	21.11	38.45
826.4	14.87	H	6.8	0.53	21.14	38.45
836.4	15.04	V	6.8	0.53	21.31	38.45
836.4	13.74	H	6.8	0.53	20.01	38.45
846.6	14.88	V	6.9	0.53	21.25	38.45
846.6	15.25	H	6.9	0.53	21.62	38.45

EIRP for PCS Band (Part 24E)**GPRS Mode**

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	20.59	V	7.88	0.85	27.62	33
1850.2	21.00	H	7.88	0.85	28.03	33
1880	19.77	V	7.88	0.85	26.80	33
1880	20.23	H	7.88	0.85	27.26	33
1909.8	20.79	V	7.86	0.85	27.80	33
1909.8	20.19	H	7.86	0.85	27.20	33

EGPRS Mode

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	20.67	V	7.88	0.85	27.70	33
1850.2	21.30	H	7.88	0.85	28.33	33
1880	20.29	V	7.88	0.85	27.32	33
1880	20.34	H	7.88	0.85	27.37	33
1909.8	20.46	V	7.86	0.85	27.47	33
1909.8	20.43	H	7.86	0.85	27.44	33

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EIRP for UMTS-FDD Band II (Part 24E)
WCDMA Mode

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	14.43	V	7.88	0.85	21.46	33
1852.4	12.55	H	7.88	0.85	19.58	33
1880	14.94	V	7.88	0.85	21.97	33
1880	14.35	H	7.88	0.85	21.38	33
1907.6	14.38	V	7.86	0.85	21.39	33
1907.6	15.11	H	7.86	0.85	22.12	33

HSDPA Mode

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	12.93	V	7.88	0.85	19.96	33
1852.4	12.99	H	7.88	0.85	20.02	33
1880	12.55	V	7.88	0.85	19.58	33
1880	12.54	H	7.88	0.85	19.57	33
1907.6	12.97	V	7.86	0.85	19.98	33
1907.6	12.74	H	7.86	0.85	19.75	33

HSUPA Mode

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	12.45	V	7.88	0.85	19.48	33
1852.4	12.44	H	7.88	0.85	19.47	33
1880	13.17	V	7.88	0.85	20.20	33
1880	11.78	H	7.88	0.85	18.81	33
1907.6	11.70	V	7.86	0.85	18.71	33
1907.6	13.30	H	7.86	0.85	20.31	33

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EIRP for UMTS-FDD Band IV (Part 24E)
WCDMA Mode

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	14.30	V	7.88	0.85	21.33	30
1712.4	13.11	H	7.88	0.85	20.14	30
1732.6	14.81	V	7.88	0.85	21.84	30
1732.6	13.96	H	7.88	0.85	20.99	30
1752.6	14.77	V	7.86	0.85	21.78	30
1752.6	14.65	H	7.86	0.85	21.66	30

HSDPA Mode

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	12.97	V	7.88	0.85	20.00	30
1712.4	12.72	H	7.88	0.85	19.75	30
1732.6	12.50	V	7.88	0.85	19.53	30
1732.6	12.71	H	7.88	0.85	19.74	30
1752.6	12.90	V	7.86	0.85	19.91	30
1752.6	13.16	H	7.86	0.85	20.17	30

HSUPA Mode

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1712.4	12.84	V	7.88	0.85	19.87	30
1712.4	11.63	H	7.88	0.85	18.66	30
1732.6	12.56	V	7.88	0.85	19.59	30
1732.6	12.59	H	7.88	0.85	19.62	30
1752.6	11.87	V	7.86	0.85	18.88	30
1752.6	13.66	H	7.86	0.85	20.67	30

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EIRP for LTE Band 2 (Part 24E)

Frequency (MHz)	BW (MHz)	Modulation	RB Size/Offset	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.7	1.4	QPSK	1/0	10.49	V	7.88	0.85	17.52	33
1880	1.4	QPSK	1/0	10.82	V	7.88	0.85	17.85	33
1909.3	1.4	QPSK	1/0	10.14	V	7.88	0.85	17.17	33
1850.7	1.4	QPSK	1/0	10.52	H	7.88	0.85	17.55	33
1880	1.4	QPSK	1/0	10.10	H	7.88	0.85	17.13	33
1909.3	1.4	QPSK	1/0	10.26	H	7.88	0.85	17.29	33
1850.7	1.4	16-QAM	1/0	9.67	V	7.88	0.85	16.70	33
1880	1.4	16-QAM	1/0	10.19	V	7.88	0.85	17.22	33
1909.3	1.4	16-QAM	1/0	10.12	V	7.88	0.85	17.15	33
1850.7	1.4	16-QAM	1/0	9.87	H	7.88	0.85	16.90	33
1880	1.4	16-QAM	1/0	9.22	H	7.88	0.85	16.25	33
1909.3	1.4	16-QAM	1/0	9.76	H	7.88	0.85	16.79	33
1851.5	3	QPSK	1/0	9.30	V	7.88	0.85	16.33	33
1880	3	QPSK	1/0	10.28	V	7.88	0.85	17.31	33
1908.5	3	QPSK	1/0	9.05	V	7.88	0.85	16.08	33
1851.5	3	QPSK	1/0	10.06	H	7.88	0.85	17.09	33
1880	3	QPSK	1/0	11.06	H	7.88	0.85	18.09	33
1908.5	3	QPSK	1/0	9.58	H	7.88	0.85	16.61	33
1851.5	3	16-QAM	1/0	11.16	V	7.88	0.85	18.19	33
1880	3	16-QAM	1/0	10.41	V	7.88	0.85	17.44	33
1908.5	3	16-QAM	1/0	9.49	V	7.88	0.85	16.52	33
1851.5	3	16-QAM	1/0	10.51	H	7.88	0.85	17.54	33
1880	3	16-QAM	1/0	9.31	H	7.88	0.85	16.34	33
1908.5	3	16-QAM	1/0	10.96	H	7.88	0.85	17.99	33
1852.5	5	QPSK	1/24	10.08	V	7.88	0.85	17.11	33
1880	5	QPSK	1/0	10.17	V	7.88	0.85	17.20	33
1907.5	5	QPSK	1/24	9.64	V	7.88	0.85	16.67	33
1852.5	5	QPSK	1/24	10.68	H	7.88	0.85	17.71	33
1880	5	QPSK	1/0	10.40	H	7.88	0.85	17.43	33
1907.5	5	QPSK	1/24	11.17	H	7.88	0.85	18.20	33
1852.5	5	16-QAM	1/24	9.84	V	7.88	0.85	16.87	33
1880	5	16-QAM	1/0	9.54	V	7.88	0.85	16.57	33
1907.5	5	16-QAM	1/24	10.65	V	7.88	0.85	17.68	33
1852.5	5	16-QAM	1/24	10.56	H	7.88	0.85	17.59	33
1880	5	16-QAM	1/0	10.13	H	7.88	0.85	17.16	33

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1907.5	5	16-QAM	1/24	10.31	H	7.88	0.85	17.34	33
1855	10	QPSK	1/0	10.33	V	7.88	0.85	17.36	33
1880	10	QPSK	1/0	9.62	V	7.88	0.85	16.65	33
1905	10	QPSK	1/49	9.71	V	7.88	0.85	16.74	33
1855	10	QPSK	1/0	9.98	H	7.88	0.85	17.01	33
1880	10	QPSK	1/0	9.82	H	7.88	0.85	16.85	33
1905	10	QPSK	1/49	10.08	H	7.88	0.85	17.11	33
1855	10	16-QAM	1/0	10.50	V	7.88	0.85	17.53	33
1880	10	16-QAM	1/0	9.57	V	7.88	0.85	16.60	33
1905	10	16-QAM	1/49	10.08	V	7.88	0.85	17.11	33
1855	10	16-QAM	1/0	10.57	H	7.88	0.85	17.60	33
1880	10	16-QAM	1/0	9.61	H	7.88	0.85	16.64	33
1905	10	16-QAM	1/49	10.18	H	7.88	0.85	17.21	33
1857.5	15	QPSK	1/0	10.65	V	7.88	0.85	17.68	33
1880	15	QPSK	1/0	9.30	V	7.88	0.85	16.33	33
1902.5	15	QPSK	1/0	9.56	V	7.88	0.85	16.59	33
1857.5	15	QPSK	1/0	10.62	H	7.88	0.85	17.65	33
1880	15	QPSK	1/0	10.28	H	7.88	0.85	17.31	33
1902.5	15	QPSK	1/0	9.03	H	7.88	0.85	16.06	33
1857.5	15	16-QAM	1/0	9.93	V	7.88	0.85	16.96	33
1880	15	16-QAM	1/0	9.84	V	7.88	0.85	16.87	33
1902.5	15	16-QAM	1/0	9.57	V	7.88	0.85	16.60	33
1857.5	15	16-QAM	1/0	10.42	H	7.88	0.85	17.45	33
1880	15	16-QAM	1/0	9.49	H	7.88	0.85	16.52	33
1902.5	15	16-QAM	1/0	10.23	H	7.88	0.85	17.26	33
1860	20	QPSK	1/0	9.18	V	7.88	0.85	16.21	33
1880	20	QPSK	1/0	10.69	V	7.88	0.85	17.72	33
1900	20	QPSK	1/0	9.44	V	7.88	0.85	16.47	33
1860	20	QPSK	1/0	9.82	H	7.88	0.85	16.85	33
1880	20	QPSK	1/0	9.83	H	7.88	0.85	16.86	33
1900	20	QPSK	1/0	10.40	H	7.88	0.85	17.43	33
1860	20	16-QAM	1/0	9.77	V	7.88	0.85	16.80	33
1880	20	16-QAM	1/0	9.60	V	7.88	0.85	16.63	33
1900	20	16-QAM	1/0	10.53	V	7.88	0.85	17.56	33
1860	20	16-QAM	1/0	9.60	H	7.88	0.85	16.63	33
1880	20	16-QAM	1/0	9.69	H	7.88	0.85	16.72	33
1900	20	16-QAM	1/0	9.20	H	7.88	0.85	16.23	33

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EIRP for LTE Band 4 (Part 27)

Frequency (MHz)	BW (MHz)	Modulation	RB Size/Offset	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1710.7	1.4	QPSK	1/0	9.87	V	7.95	0.79	17.03	30
1732.5	1.4	QPSK	1/0	10.68	V	7.95	0.79	17.84	30
1754.3	1.4	QPSK	1/0	9.92	V	7.95	0.79	17.08	30
1710.7	1.4	QPSK	1/0	9.54	H	7.95	0.79	16.70	30
1732.5	1.4	QPSK	1/0	10.96	H	7.95	0.79	18.12	30
1754.3	1.4	QPSK	1/0	9.63	H	7.95	0.79	16.79	30
1710.7	1.4	16-QAM	1/5	9.76	V	7.95	0.79	16.92	30
1732.5	1.4	16-QAM	1/0	11.10	V	7.95	0.79	18.26	30
1754.3	1.4	16-QAM	1/0	10.08	V	7.95	0.79	17.24	30
1710.7	1.4	16-QAM	1/5	9.61	H	7.95	0.79	16.77	30
1732.5	1.4	16-QAM	1/0	10.09	H	7.95	0.79	17.25	30
1754.3	1.4	16-QAM	1/0	9.90	H	7.95	0.79	17.06	30
1711.5	3	QPSK	1/0	9.64	V	7.95	0.79	16.80	30
1732.5	3	QPSK	1/0	9.92	V	7.95	0.79	17.08	30
1753.5	3	QPSK	1/0	10.04	V	7.95	0.79	17.20	30
1711.5	3	QPSK	1/0	10.68	H	7.95	0.79	17.84	30
1732.5	3	QPSK	1/0	9.99	H	7.95	0.79	17.15	30
1753.5	3	QPSK	1/0	9.54	H	7.95	0.79	16.70	30
1711.5	3	16-QAM	1/0	9.46	V	7.95	0.79	16.62	30
1732.5	3	16-QAM	1/0	9.87	V	7.95	0.79	17.03	30
1753.5	3	16-QAM	1/0	9.66	V	7.95	0.79	16.82	30
1711.5	3	16-QAM	1/0	9.44	H	7.95	0.79	16.60	30
1732.5	3	16-QAM	1/0	9.83	H	7.95	0.79	16.99	30
1753.5	3	16-QAM	1/0	10.24	H	7.95	0.79	17.40	30
1712.5	5	QPSK	1/0	9.69	V	7.95	0.79	16.85	30
1732.5	5	QPSK	1/0	9.12	V	7.95	0.79	16.28	30
1752.5	5	QPSK	1/24	10.37	V	7.95	0.79	17.53	30
1712.5	5	QPSK	1/0	9.64	H	7.95	0.79	16.80	30
1732.5	5	QPSK	1/0	9.57	H	7.95	0.79	16.73	30
1752.5	5	QPSK	1/24	9.55	H	7.95	0.79	16.71	30
1712.5	5	16-QAM	1/0	10.34	V	7.95	0.79	17.50	30
1732.5	5	16-QAM	1/0	10.38	V	7.95	0.79	17.54	30
1752.5	5	16-QAM	1/24	10.75	V	7.95	0.79	17.91	30
1712.5	5	16-QAM	1/0	9.90	H	7.95	0.79	17.06	30
1732.5	5	16-QAM	1/0	8.80	H	7.95	0.79	15.96	30

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1752.5	5	16-QAM	1/24	9.51	H	7.95	0.79	16.67	30
1715	10	QPSK	1/0	10.81	V	7.95	0.79	17.97	30
1732.5	10	QPSK	1/49	9.74	V	7.95	0.79	16.90	30
1750	10	QPSK	1/0	10.08	V	7.95	0.79	17.24	30
1715	10	QPSK	1/0	10.08	H	7.95	0.79	17.24	30
1732.5	10	QPSK	1/49	10.94	H	7.95	0.79	18.10	30
1750	10	QPSK	1/0	9.58	H	7.95	0.79	16.74	30
1715	10	16-QAM	1/0	10.83	V	7.95	0.79	17.99	30
1732.5	10	16-QAM	1/49	9.80	V	7.95	0.79	16.96	30
1750	10	16-QAM	1/0	9.74	V	7.95	0.79	16.90	30
1715	10	16-QAM	1/0	9.89	H	7.95	0.79	17.05	30
1732.5	10	16-QAM	1/49	9.95	H	7.95	0.79	17.11	30
1750	10	16-QAM	1/0	10.65	H	7.95	0.79	17.81	30
1717.5	15	QPSK	1/0	10.86	V	7.95	0.79	18.02	30
1732.5	15	QPSK	1/74	9.79	V	7.95	0.79	16.95	30
1747.5	15	QPSK	1/0	9.85	V	7.95	0.79	17.01	30
1717.5	15	QPSK	1/0	10.54	H	7.95	0.79	17.70	30
1732.5	15	QPSK	1/74	10.38	H	7.95	0.79	17.54	30
1747.5	15	QPSK	1/0	9.91	H	7.95	0.79	17.07	30
1717.5	15	16-QAM	1/0	9.57	V	7.95	0.79	16.73	30
1732.5	15	16-QAM	1/74	9.83	V	7.95	0.79	16.99	30
1747.5	15	16-QAM	1/0	10.56	V	7.95	0.79	17.72	30
1717.5	15	16-QAM	1/0	9.80	H	7.95	0.79	16.96	30
1732.5	15	16-QAM	1/74	9.76	H	7.95	0.79	16.92	30
1747.5	15	16-QAM	1/0	10.07	H	7.95	0.79	17.23	30
1720	20	QPSK	1/99	10.91	V	7.95	0.79	18.07	30
1732.5	20	QPSK	1/99	9.63	V	7.95	0.79	16.79	30
1745	20	QPSK	1/0	9.01	V	7.95	0.79	16.17	30
1720	20	QPSK	1/99	10.56	H	7.95	0.79	17.72	30
1732.5	20	QPSK	1/99	9.70	H	7.95	0.79	16.86	30
1745	20	QPSK	1/0	9.87	H	7.95	0.79	17.03	30
1720	20	16-QAM	1/99	10.25	V	7.95	0.79	17.41	30
1732.5	20	16-QAM	1/99	10.17	V	7.95	0.79	17.33	30
1745	20	16-QAM	1/0	10.50	V	7.95	0.79	17.66	30
1720	20	16-QAM	1/99	10.19	H	7.95	0.79	17.35	30
1732.5	20	16-QAM	1/99	9.31	H	7.95	0.79	16.47	30
1745	20	16-QAM	1/0	9.44	H	7.95	0.79	16.60	30

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ERP for LTE Band 5 (Part 22H)

Frequency (MHz)	BW (MHz)	Modulation	RB Size/Offset	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.7	1.4	QPSK	1/0	9.72	V	6.8	0.53	15.99	38.45
836.5	1.4	QPSK	1/0	10.37	V	6.8	0.53	16.64	38.45
848.3	1.4	QPSK	1/0	10.02	V	6.9	0.53	16.39	38.45
824.7	1.4	QPSK	1/0	10.08	H	6.8	0.53	16.35	38.45
836.5	1.4	QPSK	1/0	10.38	H	6.8	0.53	16.65	38.45
848.3	1.4	QPSK	1/0	10.01	H	6.9	0.53	16.38	38.45
824.7	1.4	16-QAM	1/0	10.18	V	6.8	0.53	16.45	38.45
836.5	1.4	16-QAM	1/0	9.63	V	6.8	0.53	15.90	38.45
848.3	1.4	16-QAM	1/0	10.06	V	6.9	0.53	16.43	38.45
824.7	1.4	16-QAM	1/0	10.41	H	6.8	0.53	16.68	38.45
836.5	1.4	16-QAM	1/0	9.59	H	6.8	0.53	15.86	38.45
848.3	1.4	16-QAM	1/0	9.93	H	6.9	0.53	16.30	38.45
825.5	3	QPSK	1/0	9.55	V	6.8	0.53	15.82	38.45
836.5	3	QPSK	1/0	9.97	V	6.8	0.53	16.24	38.45
847.5	3	QPSK	1/0	9.42	V	6.9	0.53	15.79	38.45
825.5	3	QPSK	1/0	10.13	H	6.8	0.53	16.40	38.45
836.5	3	QPSK	1/0	10.39	H	6.8	0.53	16.66	38.45
847.5	3	QPSK	1/0	9.60	H	6.9	0.53	15.97	38.45
825.5	3	16-QAM	1/0	10.80	V	6.8	0.53	17.07	38.45
836.5	3	16-QAM	1/0	10.51	V	6.8	0.53	16.78	38.45
847.5	3	16-QAM	1/0	9.67	V	6.9	0.53	16.04	38.45
825.5	3	16-QAM	1/0	10.73	H	6.8	0.53	17.00	38.45
836.5	3	16-QAM	1/0	9.90	H	6.8	0.53	16.17	38.45
847.5	3	16-QAM	1/0	10.37	H	6.9	0.53	16.74	38.45
826.5	5	QPSK	1/24	10.35	V	6.8	0.53	16.62	38.45
836.5	5	QPSK	1/0	9.90	V	6.8	0.53	16.17	38.45
846.5	5	QPSK	1/24	10.08	V	6.9	0.53	16.45	38.45
826.5	5	QPSK	1/24	9.89	H	6.8	0.53	16.16	38.45
836.5	5	QPSK	1/0	10.80	H	6.8	0.53	17.07	38.45
846.5	5	QPSK	1/24	10.46	H	6.9	0.53	16.83	38.45
826.5	5	16-QAM	1/24	9.89	V	6.8	0.53	16.16	38.45
836.5	5	16-QAM	1/0	9.82	V	6.8	0.53	16.09	38.45
846.5	5	16-QAM	1/24	10.87	V	6.9	0.53	17.24	38.45
826.5	5	16-QAM	1/24	9.65	H	6.8	0.53	15.92	38.45
836.5	5	16-QAM	1/0	10.59	H	6.8	0.53	16.86	38.45

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846.5	5	16-QAM	1/24	9.82	H	6.9	0.53	16.19	38.45
829	10	QPSK	1/0	9.45	V	6.8	0.53	15.72	38.45
836.5	10	QPSK	1/0	10.06	V	6.8	0.53	16.33	38.45
844	10	QPSK	1/49	9.49	V	6.9	0.53	15.86	38.45
829	10	QPSK	1/0	9.51	H	6.8	0.53	15.78	38.45
836.5	10	QPSK	1/0	9.84	H	6.8	0.53	16.11	38.45
844	10	QPSK	1/49	10.12	H	6.9	0.53	16.49	38.45
829	10	16-QAM	1/0	9.80	V	6.8	0.53	16.07	38.45
836.5	10	16-QAM	1/0	9.83	V	6.8	0.53	16.10	38.45
844	10	16-QAM	1/49	10.47	V	6.9	0.53	16.84	38.45
824.7	10	16-QAM	1/0	10.71	H	6.8	0.53	16.98	38.45
836.5	10	16-QAM	1/0	9.71	H	6.8	0.53	15.98	38.45
848.3	10	16-QAM	1/49	10.34	H	6.9	0.53	16.71	38.45

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ERP for LTE Band 12 (Part 27)

Frequency (MHz)	BW (MHz)	Modulation	RB Size/Offset	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
699.7	1.4	QPSK	1/0	10.59	V	6.8	0.42	16.97	34.77
707.5	1.4	QPSK	1/0	9.88	V	6.8	0.42	16.26	34.77
715.3	1.4	QPSK	1/0	9.87	V	6.8	0.42	16.25	34.77
699.7	1.4	QPSK	1/0	9.89	H	6.8	0.42	16.27	34.77
707.5	1.4	QPSK	1/0	10.68	H	6.8	0.42	17.06	34.77
715.3	1.4	QPSK	1/0	10.24	H	6.8	0.42	16.62	34.77
699.7	1.4	16-QAM	1/0	9.37	V	6.8	0.42	15.75	34.77
707.5	1.4	16-QAM	1/0	9.95	V	6.8	0.42	16.33	34.77
715.3	1.4	16-QAM	1/0	10.15	V	6.8	0.42	16.53	34.77
699.7	1.4	16-QAM	1/0	10.90	H	6.8	0.42	17.28	34.77
707.5	1.4	16-QAM	1/0	10.35	H	6.8	0.42	16.73	34.77
715.3	1.4	16-QAM	1/0	9.84	H	6.8	0.42	16.22	34.77
700.5	3	QPSK	1/0	8.82	V	6.8	0.42	15.20	34.77
707.5	3	QPSK	1/0	9.24	V	6.8	0.42	15.62	34.77
714.5	3	QPSK	1/0	9.04	V	6.8	0.42	15.42	34.77
700.5	3	QPSK	1/0	11.09	H	6.8	0.42	17.47	34.77
707.5	3	QPSK	1/0	10.81	H	6.8	0.42	17.19	34.77
714.5	3	QPSK	1/0	8.84	H	6.8	0.42	15.22	34.77
700.5	3	16-QAM	1/0	11.41	V	6.8	0.42	17.79	34.77
707.5	3	16-QAM	1/0	10.64	V	6.8	0.42	17.02	34.77
714.5	3	16-QAM	1/0	9.64	V	6.8	0.42	16.02	34.77
700.5	3	16-QAM	1/0	10.53	H	6.8	0.42	16.91	34.77
707.5	3	16-QAM	1/0	8.96	H	6.8	0.42	15.34	34.77
714.5	3	16-QAM	1/0	11.18	H	6.8	0.42	17.56	34.77
701.5	5	QPSK	1/24	10.10	V	6.8	0.42	16.48	34.77
707.5	5	QPSK	1/0	10.45	V	6.8	0.42	16.83	34.77
713.5	5	QPSK	1/24	9.06	V	6.8	0.42	15.44	34.77
701.5	5	QPSK	1/24	11.28	H	6.8	0.42	17.66	34.77
707.5	5	QPSK	1/0	9.87	H	6.8	0.42	16.25	34.77
713.5	5	QPSK	1/24	10.38	H	6.8	0.42	16.76	34.77
701.5	5	16-QAM	1/24	10.08	V	6.8	0.42	16.46	34.77
707.5	5	16-QAM	1/0	9.15	V	6.8	0.42	15.53	34.77
713.5	5	16-QAM	1/24	11.36	V	6.8	0.42	17.74	34.77
701.5	5	16-QAM	1/24	10.32	H	6.8	0.42	16.70	34.77
707.5	5	16-QAM	1/0	10.37	H	6.8	0.42	16.75	34.77

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713.5	5	16-QAM	1/24	10.57	H	6.8	0.42	16.95	34.77
704	10	QPSK	1/0	10.11	V	6.8	0.42	16.49	34.77
707.5	10	QPSK	1/0	9.08	V	6.8	0.42	15.46	34.77
711	10	QPSK	1/49	10.20	V	6.8	0.42	16.58	34.77
704	10	QPSK	1/0	8.99	H	6.8	0.42	15.37	34.77
707.5	10	QPSK	1/0	10.10	H	6.8	0.42	16.48	34.77
711	10	QPSK	1/49	9.50	H	6.8	0.42	15.88	34.77
704	10	16-QAM	1/0	11.05	V	6.8	0.42	17.43	34.77
707.5	10	16-QAM	1/0	10.29	V	6.8	0.42	16.67	34.77
711	10	16-QAM	1/49	10.65	V	6.8	0.42	17.03	34.77
704	10	16-QAM	1/0	11.38	H	6.8	0.42	17.76	34.77
707.5	10	16-QAM	1/0	9.51	H	6.8	0.42	15.89	34.77
711	10	16-QAM	1/49	10.36	H	6.8	0.42	16.74	34.77

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ERP for LTE Band 17 (Part 27)

Frequency (MHz)	BW (MHz)	Modulation	RB Size/Offset	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
706.5	5	QPSK	1/24	10.11	V	6.8	0.42	16.49	34.77
710	5	QPSK	1/0	9.63	V	6.8	0.42	16.01	34.77
713.5	5	QPSK	1/24	9.19	V	6.8	0.42	15.57	34.77
706.5	5	QPSK	1/24	10.75	H	6.8	0.42	17.13	34.77
710	5	QPSK	1/0	10.56	H	6.8	0.42	16.94	34.77
713.5	5	QPSK	1/24	11.75	H	6.8	0.42	18.13	34.77
706.5	5	16-QAM	1/24	9.56	V	6.8	0.42	15.94	34.77
710	5	16-QAM	1/0	9.88	V	6.8	0.42	16.26	34.77
713.5	5	16-QAM	1/24	10.33	V	6.8	0.42	16.71	34.77
706.5	5	16-QAM	1/24	11.12	H	6.8	0.42	17.50	34.77
710	5	16-QAM	1/0	9.57	H	6.8	0.42	15.95	34.77
713.5	5	16-QAM	1/24	10.35	H	6.8	0.42	16.73	34.77
709	10	QPSK	1/0	9.49	V	6.8	0.42	15.87	34.77
710	10	QPSK	1/0	10.35	V	6.8	0.42	16.73	34.77
711	10	QPSK	1/49	9.40	V	6.8	0.42	15.78	34.77
709	10	QPSK	1/0	9.94	H	6.8	0.42	16.32	34.77
710	10	QPSK	1/0	9.57	H	6.8	0.42	15.95	34.77
711	10	QPSK	1/49	9.78	H	6.8	0.42	16.16	34.77
709	10	16-QAM	1/0	10.77	V	6.8	0.42	17.15	34.77
710	10	16-QAM	1/0	9.67	V	6.8	0.42	16.05	34.77
711	10	16-QAM	1/49	10.62	V	6.8	0.42	17.00	34.77
709	10	16-QAM	1/0	11.02	H	6.8	0.42	17.40	34.77
710	10	16-QAM	1/0	10.34	H	6.8	0.42	16.72	34.77
711	10	16-QAM	1/49	10.03	H	6.8	0.42	16.41	34.77

Note:

Absolute level=Substituted Level-Cable loss+Antenna Gain

Margin=Limit -Absolute Level

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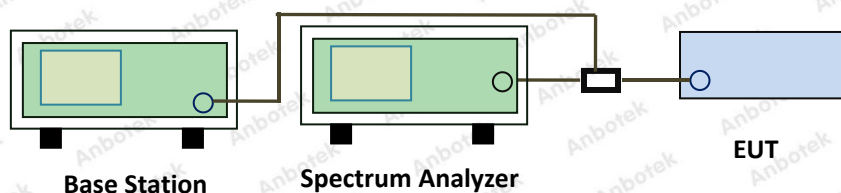
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4. Peak-Average Ratio

4.1. Test Standard and Limit

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.

4.2. Test Setup



4.3. Test Procedure

According with KDB 971168

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

4.4. Test Data

Please refer to separate files for Appendix B.

5. Modulation Characteristic

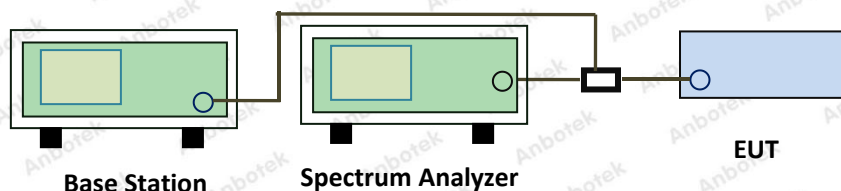
According to FCC § 2.1047(d), Part 22H, Part 24E& Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

6. Occupied Bandwidth

6.1. Test Standard and Limit

Spec	Item	Requirement
§2.1049, §22.917, §22.905	a)	99% Occupied Bandwidth(kHz)
§24.238 §27.53(a)	b)	26 dB Bandwidth(kHz)

6.2. Test Setup



6.3. Test Procedure

1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
2. RBW was set to about 1% of emission BW, VBW= 3 times RBW.
3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

6.4. Test Data

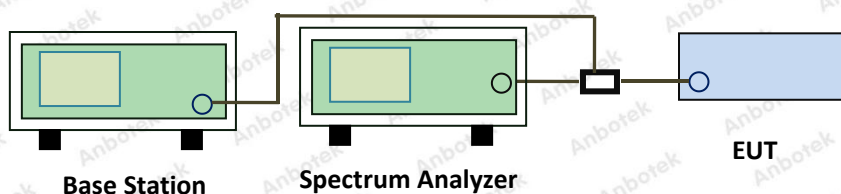
Please refer to separate files for Appendix C.

7. Spurious Emissions at Antenna Terminals

7.1. Test Standard and Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least $(43 + 10 \log P)$ dB, in this case, -13dBm.

7.2. Test Setup



7.3. Test Procedure

1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.
3. For the out of band: Set the RBW= 1MHz, VBW = 3MHz, Start=30MHz, Stop= 10th harmonic.

7.4. Test Data

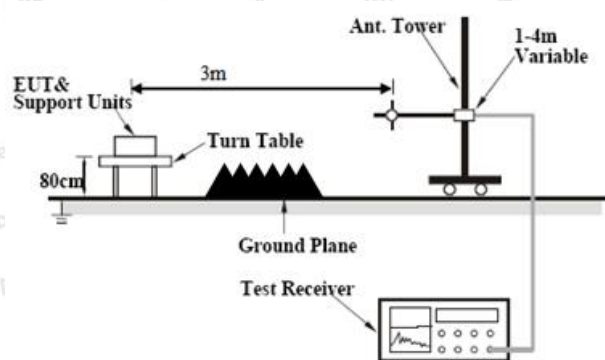
Please refer to separate files for Appendix E.

8. Spurious Radiated Emissions

8.1. Test Standard and Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

8.2. Test Setup



8.3. Test Procedure

- 1.The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
- 2.The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3.Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Sample Calculation:

EUT Field Strength = Raw Amplitude (dB μ V/m) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)

8.4. Test Data

Please to see the following pages

Pre-scan all mode, the worst case as below:

GPRS 850,Low Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-50.90	V	5.4	0.24	-45.74	-13	-32.74
279.7	-50.03	H	5.4	0.24	-44.87	-13	-31.87
1648.4	-49.30	V	7.95	0.78	-42.13	-13	-29.13
1648.4	-49.34	H	7.95	0.78	-42.17	-13	-29.17
2472.6	-42.94	V	9.89	2.39	-35.44	-13	-22.44
2472.6	-42.91	H	9.89	2.39	-35.41	-13	-22.41

GPRS 850,Middle Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-49.98	V	5.4	0.24	-44.82	-13	-31.82
279.7	-50.75	H	5.4	0.24	-45.59	-13	-32.59
1673.2	-49.16	V	7.95	0.78	-41.99	-13	-28.99
1673.2	-48.89	H	7.95	0.78	-41.72	-13	-28.72
2509.8	-43.38	V	9.89	2.39	-35.88	-13	-22.88
2509.8	-44.13	H	9.89	2.39	-36.63	-13	-23.63

GPRS 850,High Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-50.00	V	5.4	0.24	-44.84	-13	-31.84
279.7	-50.30	H	5.4	0.24	-45.14	-13	-32.14
1697.6	-48.80	V	7.95	0.78	-41.63	-13	-28.63
1697.6	-48.47	H	7.95	0.78	-41.30	-13	-28.30
2546.4	-43.52	V	9.89	2.39	-36.02	-13	-23.02
2546.4	-42.99	H	9.89	2.39	-35.49	-13	-22.49

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GPRS 1900 , Low Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-50.68	V	5.4	0.24	-45.52	-13	-32.52
279.7	-50.84	H	5.4	0.24	-45.68	-13	-32.68
3700.4	-47.76	V	10.25	2.73	-40.24	-13	-27.24
3700.4	-47.43	H	10.25	2.73	-39.91	-13	-26.91

GPRS 1900 , Middle Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-50.46	V	5.4	0.24	-45.30	-13	-32.30
279.7	-50.11	H	5.4	0.24	-44.95	-13	-31.95
3760	-47.02	V	10.25	2.73	-39.50	-13	-26.50
3760	-48.25	H	10.25	2.73	-40.73	-13	-27.73

GPRS 1900 , High Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-50.14	V	5.4	0.24	-44.98	-13	-31.98
279.7	-50.80	H	5.4	0.24	-45.64	-13	-32.64
3819.6	-47.68	V	10.25	2.73	-40.16	-13	-27.16
3819.6	-47.21	H	10.25	2.73	-39.69	-13	-26.69

WCDMA Band V, Low Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-50.02	V	5.4	0.24	-44.86	-13	-31.86
279.7	-50.66	H	5.4	0.24	-45.50	-13	-32.50
1652.8	-49.37	V	7.95	0.78	-42.20	-13	-29.20
1652.8	-48.48	H	7.95	0.78	-41.31	-13	-28.31
2479.2	-43.16	V	9.89	2.39	-35.66	-13	-22.66
2479.2	-42.98	H	9.89	2.39	-35.48	-13	-22.48

WCDMA Band V, Middle Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-50.45	V	5.4	0.24	-45.29	-13	-32.29
279.7	-50.13	H	5.4	0.24	-44.97	-13	-31.97
1673.2	-48.64	V	7.95	0.78	-41.47	-13	-28.47
1673.2	-48.30	H	7.95	0.78	-41.13	-13	-28.13
2509.8	-44.93	V	9.89	2.39	-37.43	-13	-24.43
2509.8	-44.54	H	9.89	2.39	-37.04	-13	-24.04

WCDMA Band V, High Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-49.94	V	5.4	0.24	-44.78	-13	-31.78
279.7	-50.77	H	5.4	0.24	-45.61	-13	-32.61
1693.2	-48.54	V	7.95	0.78	-41.37	-13	-28.37
1693.2	-49.17	H	7.95	0.78	-42.00	-13	-29.00
2539.8	-43.06	V	9.89	2.39	-35.56	-13	-22.56
2539.8	-43.41	H	9.89	2.39	-35.91	-13	-22.91

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WCDMA Band II, Low Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Correct ed Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-50.64	V	5.4	0.24	-45.48	-13	-32.48
279.7	-50.16	H	5.4	0.24	-45.00	-13	-32.00
3704.8	-48.18	V	10.25	2.73	-40.66	-13	-27.66
3704.8	-47.64	H	10.25	2.73	-40.12	-13	-27.12

WCDMA Band II, Middle Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Correct ed Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-50.70	V	5.4	0.24	-45.54	-13	-32.54
279.7	-49.48	H	5.4	0.24	-44.32	-13	-31.32
3760	-46.45	V	10.25	2.73	-38.93	-13	-25.93
3760	-48.63	H	10.25	2.73	-41.11	-13	-28.11

WCDMA Band II, High Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Correct ed Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-50.53	V	5.4	0.24	-45.37	-13	-32.37
279.7	-50.67	H	5.4	0.24	-45.51	-13	-32.51
3815.2	-47.58	V	10.25	2.73	-40.06	-13	-27.06
3815.2	-47.71	H	10.25	2.73	-40.19	-13	-27.19

WCDMA Band IV, Low Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Correct ed Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-50.19	V	5.4	0.24	-45.03	-13	-32.03
279.7	-50.85	H	5.4	0.24	-45.69	-13	-32.69
3424.8	-47.28	V	10.09	2.52	-39.71	-13	-26.71
3424.8	-48.11	H	10.09	2.52	-40.54	-13	-27.54

WCDMA Band IV, Middle Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Correct ed Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-55.91	V	5.4	0.24	-50.75	-13	-37.75
279.7	-50.32	H	5.4	0.24	-45.16	-13	-32.16
3465.2	-46.07	V	10.09	2.52	-38.50	-13	-25.50
3465.2	-46.90	H	10.09	2.52	-39.33	-13	-26.33

WCDMA Band IV, High Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Correct ed Reading (dBm)	Limit (dBm)	Margin (dB)
279.7	-50.79	V	5.4	0.24	-45.63	-13	-32.63
279.7	-50.15	H	5.4	0.24	-44.99	-13	-31.99
3505.2	-48.05	V	10.09	2.52	-40.48	-13	-27.48
3505.2	-47.65	H	10.09	2.52	-40.08	-13	-27.08

Pre-scan with all the bandwidth, and worse case as below

LTE Band II , Low Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.5	-50.74	V	5.4	0.24	-45.58	-13	-32.58
279.5	-50.08	H	5.4	0.24	-44.92	-13	-31.92
3703	-47.58	V	10.25	2.73	-40.06	-13	-27.06
3703	-47.51	H	10.25	2.73	-39.99	-13	-26.99

LTE Band II , Middle Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.5	-56.43	V	5.4	0.24	-51.27	-13	-38.27
279.5	-50.25	H	5.4	0.24	-45.09	-13	-32.09
3760	-46.53	V	10.25	2.73	-39.01	-13	-26.01
3760	-43.20	H	10.25	2.73	-35.68	-13	-22.68

LTE Band II , High Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.5	-50.46	V	5.4	0.24	-45.30	-13	-32.30
279.5	-49.98	H	5.4	0.24	-44.82	-13	-31.82
3817	-48.15	V	10.25	2.73	-40.63	-13	-27.63
3817	-47.62	H	10.25	2.73	-40.10	-13	-27.10

LTE Band IV , Low Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.5	-50.34	V	5.4	0.24	-45.18	-13	-32.18
279.5	-50.62	H	5.4	0.24	-45.46	-13	-32.46
3425	-47.96	V	10.09	2.52	-40.39	-13	-27.39
3425	-47.24	H	10.09	2.52	-39.67	-13	-26.67

LTE Band IV , Middle Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.5	-56.61	V	5.4	0.24	-51.45	-13	-38.45
279.5	-49.63	H	5.4	0.24	-44.47	-13	-31.47
3465	-46.79	V	10.09	2.52	-39.22	-13	-26.22
3465	-47.25	H	10.09	2.52	-39.68	-13	-26.68

LTE Band IV , High Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.5	-50.54	V	5.4	0.24	-45.38	-13	-32.38
279.5	-50.41	H	5.4	0.24	-45.25	-13	-32.25
3505	-47.32	V	10.09	2.52	-39.75	-13	-26.75
3505	-47.58	H	10.09	2.52	-40.01	-13	-27.01

LTE Band V , Low Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.5	-50.07	V	5.4	0.24	-44.91	-13	-31.91
279.5	-50.26	H	5.4	0.24	-45.10	-13	-32.10
2479.5	-43.15	V	9.89	2.39	-35.65	-13	-22.65
2479.5	-43.87	H	9.89	2.39	-36.37	-13	-23.37

LTE Band V , Middle Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.5	-56.80	V	5.4	0.24	-51.64	-13	-38.64
279.5	-50.26	H	5.4	0.24	-45.10	-13	-32.10
2509.5	-43.69	V	9.89	2.39	-36.19	-13	-23.19
2509.5	-43.20	H	9.89	2.39	-35.70	-13	-22.70

LTE Band V , High Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.5	-50.70	V	5.4	0.24	-45.54	-13	-32.54
279.5	-50.61	H	5.4	0.24	-45.45	-13	-32.45
2539.5	-43.75	V	9.89	2.39	-36.25	-13	-23.25
2539.5	-43.83	H	9.89	2.39	-36.33	-13	-23.33

LTE Band 12 , Low Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading	Limit (dBm)	Margin (dB)
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					(dBm)		
279.5	-50.87	V	5.4	0.24	-45.71	-13	-32.71
279.5	-50.70	H	5.4	0.24	-45.54	-13	-32.54
1403	-47.89	V	7.65	0.75	-40.99	-13	-27.99
1403	-47.67	H	7.65	0.75	-40.77	-13	-27.77

LTE Band 12 , Middle Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.5	-56.54	V	5.4	0.24	-51.38	-13	-38.38
279.5	-49.59	H	5.4	0.24	-44.43	-13	-31.43
1415	-46.45	V	7.65	0.75	-39.55	-13	-26.55
1415	-46.83	H	7.65	0.75	-39.93	-13	-26.93

LTE Band 12 , High Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.5	-50.23	V	5.4	0.24	-45.07	-13	-32.07
279.5	-50.49	H	5.4	0.24	-45.33	-13	-32.33
1427	-47.45	V	7.65	0.75	-40.55	-13	-27.55
1427	-47.77	H	7.65	0.75	-40.87	-13	-27.87

LTE Band 17 , Low Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
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279.5	-50.17	V	5.4	0.24	-45.01	-13	-32.01
279.5	-50.04	H	5.4	0.24	-44.88	-13	-31.88
1413	-47.91	V	7.65	0.75	-41.01	-13	-28.01
1413	-47.62	H	7.65	0.75	-40.72	-13	-27.72

LTE Band 17 , Middle Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.5	-56.74	V	5.4	0.24	-51.58	-13	-38.58
279.5	-49.47	H	5.4	0.24	-44.31	-13	-31.31
1420	-46.73	V	7.65	0.75	-39.83	-13	-26.83
1420	-47.54	H	7.65	0.75	-40.64	-13	-27.64

LTE Band 17 , High Channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
279.5	-50.79	V	5.4	0.24	-45.63	-13	-32.63
279.5	-49.93	H	5.4	0.24	-44.77	-13	-31.77
1427	-47.94	V	7.65	0.75	-41.04	-13	-28.04
1427	-47.57	H	7.65	0.75	-40.67	-13	-27.67

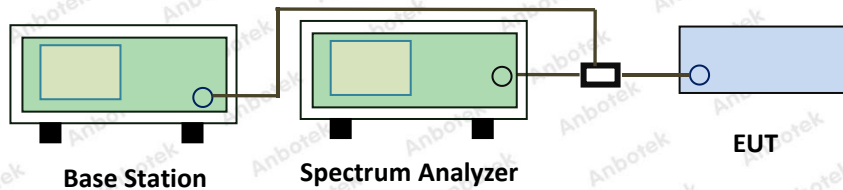
Note: The measurement have been performed for all mode, only report the worst case (5MHz QPSK) .

9. Band Edge Compliance

9.1. Test Standard and Limit

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

9.2. Test Setup



9.3. Test Procedure

1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. For the bandedge: 2G: Set the RBW=5.1KHz, VBW = 10KHz, Sweep time= Auto

9.4. Test Data

Please refer to separate files for Appendix D.

10. Frequency Stability

10.1. Test Standard and Limit

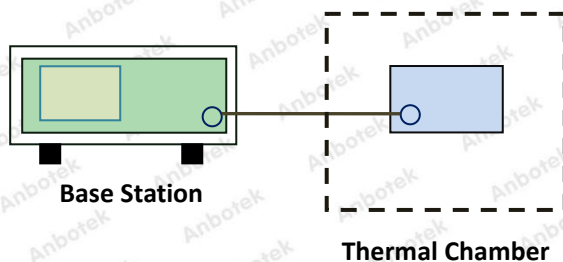
According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

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

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.

10.2. Test Setup



10.3. Test Procedure

A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage.

Limit: The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

10.4. Test Data

GPRS 850 Test Frequency: 836.6MHz				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	11	0.0131	2.5
-20		11	0.0131	2.5
-10		13	0.0155	2.5
0		16	0.0191	2.5
10		14	0.0167	2.5
20		12	0.0143	2.5
30		14	0.0167	2.5
40		13	0.0155	2.5
50		13	0.0155	2.5
20	10.2	10	0.0120	2.5
20	13.8	11	0.0131	2.5

EGPRS 850 Test Frequency: 836.6MHz				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	12	0.0143	2.5
-20		11	0.0131	2.5
-10		13	0.0155	2.5
0		16	0.0191	2.5
10		14	0.0167	2.5
20		13	0.0155	2.5
30		15	0.0179	2.5
40		13	0.0155	2.5
50		13	0.0155	2.5
20	10.2	10	0.0120	2.5
20	13.8	12	0.0143	2.5

PCS 1900 Test Frequency: 1880MHz				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	-4	-0.0021	2.5
-20		-9	-0.0048	2.5
-10		-11	-0.0059	2.5
0		-2	-0.0011	2.5
10		-11	-0.0059	2.5
20		-9	-0.0048	2.5
30		-1	-0.0005	2.5
40		-1	-0.0005	2.5
50		-4	-0.0021	2.5
20	10.2	-1	-0.0005	2.5
20	13.8	-2	-0.0011	2.5

GPRS 1900 Test Frequency: 1880MHz				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	0	0.0000	2.5
-20		-6	-0.0032	2.5
-10		0	0.0000	2.5
0		-2	-0.0011	2.5
10		-1	-0.0005	2.5
20		-1	-0.0005	2.5
30		2	0.0011	2.5
40		-1	-0.0005	2.5
50		2	0.0011	2.5
20	10.2	0	0.0000	2.5
20	13.8	-2	-0.0011	2.5

EGPRS 1900 Test Frequency: 1880MHz				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	-1	-0.0005	2.5
-20		-5	-0.0027	2.5
-10		-1	-0.0005	2.5
0		-3	-0.0016	2.5
10		-1	-0.0005	2.5
20		-2	-0.0011	2.5
30		1	0.0005	2.5
40		-1	-0.0005	2.5
50		1	0.0005	2.5
20	10.2	0	0.0000	2.5
20	13.8	-2	-0.0011	2.5

WCDMA Band V Test Frequency: 836.4MHz				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	5	0.0060	2.5
-20		0	0.0000	2.5
-10		-1	-0.0012	2.5
0		4	0.0048	2.5
10		2	0.0024	2.5
20		1	0.0012	2.5
30		-1	-0.0012	2.5
40		-1	-0.0012	2.5
50		2	0.0024	2.5
20	10.2	0	0.0000	2.5
20	13.8	-4	-0.0048	2.5

WCDMA Band II Test Frequency: 1880MHz				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	0	0.0000	2.5
-20		4	0.0021	2.5
-10		2	0.0011	2.5
0		-2	-0.0011	2.5
10		-3	-0.0016	2.5
20		-1	-0.0005	2.5
30		4	0.0021	2.5
40		3	0.0016	2.5
50		5	0.0027	2.5
20	10.2	-7	-0.0037	2.5
20	13.8	-2	-0.0011	2.5

LTE Band II Test Frequency: 1880MHz(QPSK)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	-4	-0.0021	2.5
-20		-5	-0.0027	2.5
-10		-5	-0.0027	2.5
0		-4	-0.0021	2.5
10		-6	-0.0032	2.5
20		-3	-0.0016	2.5
30		6	0.0032	2.5
40		5	0.0027	2.5
50		-3	-0.0016	2.5
20	10.2	-6	-0.0032	2.5
20	13.8	-6	-0.0032	2.5

LTE Band II Test Frequency: 1880MHz(16QAM)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	-5	-0.0027	2.5
-20		-8	-0.0043	2.5
-10		-6	-0.0032	2.5
0		-8	-0.0043	2.5
10		-6	-0.0032	2.5
20		-8	-0.0043	2.5
30		4	0.0021	2.5
40		-6	-0.0032	2.5
50		-6	-0.0032	2.5
20	10.2	-5	-0.0027	2.5
20	13.8	-6	-0.0032	2.5

LTE Band IV Test Frequency:1732.5MHz(QPSK)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	7	0.0040	2.5
-20		6	0.0035	2.5
-10		-2	-0.0012	2.5
0		-3	-0.0017	2.5
10		-5	-0.0029	2.5
20		-4	-0.0023	2.5
30		-6	-0.0035	2.5
40		-5	-0.0029	2.5
50		-3	-0.0017	2.5
20	10.2	-6	-0.0035	2.5
20	13.8	-2	-0.0012	2.5

LTE Band IV Test Frequency:1732.5MHz(16QAM)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	-8	-0.0096	2.5
-20		4	0.0048	2.5
-10		9	0.0108	2.5
0		4	0.0048	2.5
10		8	0.0096	2.5
20		-6	-0.0072	2.5
30		3	0.0036	2.5
40		-2	-0.0024	2.5
50		-7	-0.0084	2.5
20	10.2	-1	-0.0012	2.5
20	13.8	-4	-0.0048	2.5

LTE Band V Test Frequency:836.5MHz(QPSK)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	8	0.0096	2.5
-20		5	0.0060	2.5
-10		-7	-0.0084	2.5
0		-6	-0.0072	2.5
10		-1	-0.0012	2.5
20		-6	-0.0072	2.5
30		-5	-0.0060	2.5
40		-7	-0.0084	2.5
50		-2	-0.0024	2.5
20	10.2	-3	-0.0036	2.5
20	13.8	5	0.0060	2.5

LTE Band V Test Frequency:836.5MHz(16QAM)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	-8	-0.0113	2.5
-20		6	0.0085	2.5
-10		8	0.0113	2.5
0		4	0.0057	2.5
10		8	0.0113	2.5
20		-4	-0.0057	2.5
30		6	0.0085	2.5
40		-3	-0.0042	2.5
50		-6	-0.0085	2.5
20	10.2	-3	-0.0042	2.5
20	13.8	-3	-0.0042	2.5

LTE Band12 Test Frequency:707.5MHz(QPSK)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	9	0.0127	2.5
-20		7	0.0099	2.5
-10		-4	-0.0057	2.5
0		-2	-0.0028	2.5
10		-2	-0.0028	2.5
20		-7	-0.0099	2.5
30		-5	-0.0071	2.5
40		-5	-0.0071	2.5
50		-7	-0.0099	2.5
20	10.2	-6	-0.0085	2.5
20	13.8	-3	-0.0042	2.5

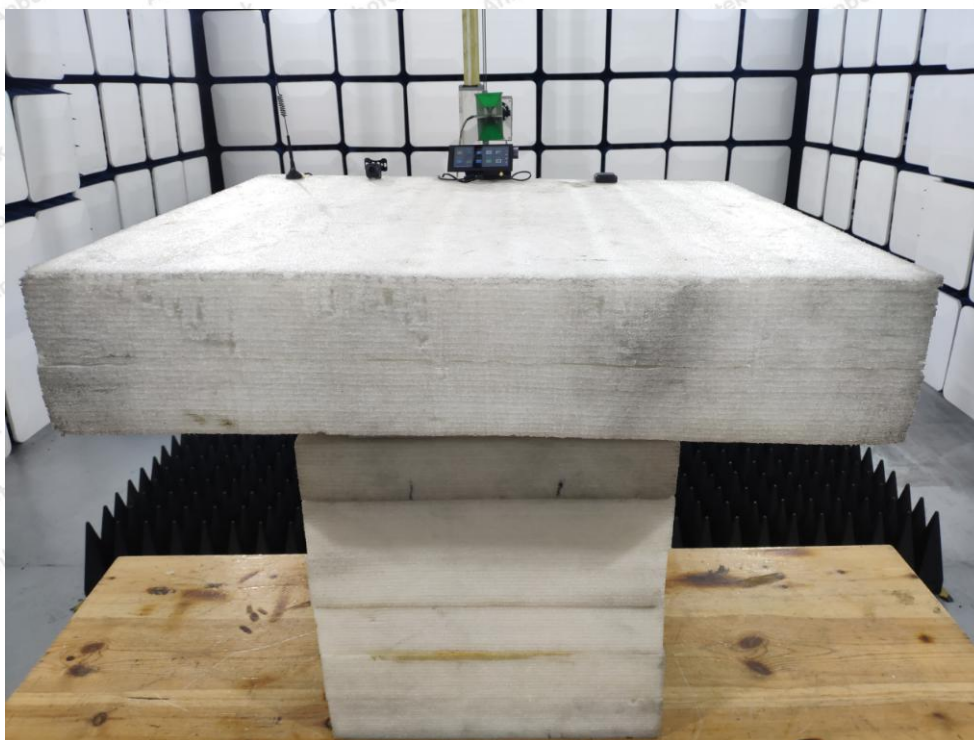
LTE Band12 Test Frequency:707.5MHz(16QAM)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	-7	-0.0099	2.5
-20		6	0.0085	2.5
-10		7	0.0099	2.5
0		5	0.0071	2.5
10		9	0.0127	2.5
20		-4	-0.0057	2.5
30		6	0.0085	2.5
40		-3	-0.0042	2.5
50		-5	-0.0071	2.5
20	10.2	-4	-0.0057	2.5
20	13.8	-3	-0.0042	2.5

LTE Band 17 Test Frequency:710MHz(QPSK)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	-8	-0.0113	2.5
-20		6	0.0085	2.5
-10		5	0.0070	2.5
0		9	0.0127	2.5
10		9	0.0127	2.5
20		-1	-0.0014	2.5
30		7	0.0099	2.5
40		-5	-0.0070	2.5
50		-6	-0.0085	2.5
20	10.2	-4	-0.0056	2.5
20	13.8	-2	-0.0028	2.5

LTE Band 17 Test Frequency:710MHz(16QAM)				
Temperature(℃)	Power Supply(V ^{DC})	Frequency Error(Hz)	Frequency Error(ppm)	Limit(ppm)
-30	12	7	0.0099	2.5
-20		7	0.0099	2.5
-10		-3	-0.0042	2.5
0		-2	-0.0028	2.5
10		-6	-0.0085	2.5
20		-6	-0.0085	2.5
30		-3	-0.0042	2.5
40		-7	-0.0099	2.5
50		-5	-0.0070	2.5
20	10.2	-3	-0.0042	2.5
20	13.8	-5	-0.0070	2.5

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Radiation Emission Test



APPENDIX II -- EXTERNAL PHOTOGRAPH

Reference to the test report 18220WC10013701.

APPENDIX III -- INTERNAL PHOTOGRAPH

Reference to the test report 18220WC10013701.

----- End of Report -----