

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Product Name: Clover Flex Pocket

Brand Name: Clover

Model No.: C407

Model Difference: N/A

Report Number: TERF2405001307E2

FCC ID HFS-C407

IC: 1787B-C407

Date of EUT Received: May 7, 2024

Date of Test: May 7, 2024 ~ May 29, 2024

Issue Date: June 18, 2024

Approved By _____

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 24E & 27 C and ISSED RSS-Gen, 130, 132, 133, 139.

The results of this report relate only to the sample identified in this report.

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Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2405001307E2	00	Original.	June 18, 2024	Karen Huang	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	Clover Flex Pocket
Brand Name:	Clover
Model No.:	C407
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	C047UG41450106
Power Supply:	3.8Vdc with rechargeable Li-ion polymer battery
Test Software (Name/Version)	default(Link Call Box)

1.2 Operation Frequency Range

LTE Band 2		
BW (MHz)	Operation Frequency (MHz)	
1.4	1850.7	1909.3
3	1851.5	1908.5
5	1852.5	1907.5
10	1855.0	1905.0
15	1857.5	1902.5
20	1860.0	1900.0
LTE Band 4		
BW (MHz)	Operation Frequency (MHz)	
1.4	1710.7	1754.3
3	1711.5	1753.5
5	1712.5	1752.5
10	1715.0	1750.0
15	1717.5	1747.5
20	1720.0	1745.0

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LTE Band 5	
BW (MHz)	Operation Frequency (MHz)
1.4	824.7 - 848.3
3	825.5 - 847.5
5	826.5 - 846.5
10	829.0 - 844.0
LTE Band 12	
BW (MHz)	Operation Frequency (MHz)
1.4	699.7 - 715.3
3	700.5 - 714.5
5	701.5 - 713.5
10	704.0 - 711.0
LTE Band 13	
BW (MHz)	Operation Frequency (MHz)
5	779.5 - 784.5
10	782.0
LTE Band 66	
BW (MHz)	Operation Frequency (MHz)
1.4	1710.7 - 1779.3
3	1711.5 - 1778.5
5	1712.5 - 1777.5
10	1715.0 - 1775.0
15	1717.5 - 1772.5
20	1720.0 - 1770.0

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1.3 Antenna Designation

Antenna Type	Antenna Model No.	Main / Aux
PIFA	DQ60ALF0007	Main
Note: Transmission frequencies in this test report are only available by the above antenna(s).		

Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
		Main
LTE-Band 2	1850 ~ 1910	2
LTE-Band 4	1710 ~ 1755	1.49
LTE-Band 5	824 ~ 849	2.3
LTE-Band 12	699 ~ 716	0.68
LTE-Band 13	777 ~ 787	2.3
LTE-Band 66	1710 ~ 1780	1.49

Note: Antenna information is provided by the applicant.

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1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)
2	1.4	1850.7	1909.3	QPSK	22.72	EIRP	0.187
				16QAM	21.71	EIRP	0.148
2	3	1851.5	1908.5	QPSK	22.75	EIRP	0.188
				16QAM	21.62	EIRP	0.145
2	5	1852.5	1907.5	QPSK	22.76	EIRP	0.189
				16QAM	21.73	EIRP	0.149
2	10	1855.0	1905.0	QPSK	22.74	EIRP	0.188
				16QAM	21.74	EIRP	0.149
2	15	1857.5	1902.5	QPSK	22.71	EIRP	0.187
				16QAM	21.66	EIRP	0.147
2	20	1860.0	1900.0	QPSK	22.83	EIRP	0.192
				16QAM	21.66	EIRP	0.147
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)
4	1.4	1710.7	1754.3	QPSK	22.48	EIRP	0.177
				16QAM	21.48	EIRP	0.141
4	3	1711.5	1753.5	QPSK	22.47	EIRP	0.177
				16QAM	21.41	EIRP	0.138
4	5	1712.5	1752.5	QPSK	22.46	EIRP	0.176
				16QAM	21.40	EIRP	0.138
4	10	1715.0	1750.0	QPSK	22.47	EIRP	0.177
				16QAM	21.38	EIRP	0.137
4	15	1717.5	1747.5	QPSK	22.41	EIRP	0.174
				16QAM	21.51	EIRP	0.142
4	20	1720.0	1745.0	QPSK	22.57	EIRP	0.181
				16QAM	21.48	EIRP	0.141
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)
5	1.4	824.7	848.3	QPSK	22.82	ERP	0.191
				16QAM	21.93	ERP	0.156
5	3	825.5	847.5	QPSK	22.76	ERP	0.189
				16QAM	21.91	ERP	0.155
5	5	826.5	846.5	QPSK	22.91	ERP	0.195
				16QAM	21.89	ERP	0.155
5	10	829.0	844.0	QPSK	22.95	ERP	0.197
				16QAM	21.86	ERP	0.153
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)
12	1.4	699.7	715.3	QPSK	21.39	ERP	0.138
				16QAM	20.41	ERP	0.110
12	3	700.5	714.5	QPSK	21.31	ERP	0.135
				16QAM	20.22	ERP	0.105
12	5	701.5	713.5	QPSK	21.26	ERP	0.134
				16QAM	20.32	ERP	0.108
12	10	704.0	711.0	QPSK	21.45	ERP	0.140
				16QAM	20.29	ERP	0.107

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LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)
13	5	779.5	784.5	QPSK	22.41	ERP	0.174
				16QAM	21.48	ERP	0.141
13	10	782.0	782.0	QPSK	22.51	ERP	0.178
				16QAM	21.37	ERP	0.137
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)
66	1.4	1710.7	1779.3	QPSK	21.79	EIRP	0.151
				16QAM	20.80	EIRP	0.120
66	3	1711.5	1778.5	QPSK	21.83	EIRP	0.152
				16QAM	20.85	EIRP	0.122
66	5	1712.5	1777.5	QPSK	21.76	EIRP	0.150
				16QAM	20.82	EIRP	0.121
66	10	1715.0	1775.0	QPSK	21.82	EIRP	0.152
				16QAM	20.73	EIRP	0.118
66	15	1717.5	1772.5	QPSK	21.79	EIRP	0.151
				16QAM	20.80	EIRP	0.120
66	20	1720.0	1770.0	QPSK	21.90	EIRP	0.155
				16QAM	20.74	EIRP	0.119

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C.

ISED RSS-GEN Issue 5 April. 2018

ISED RSS-130 Issue 2 Feb. 2019,

ISED RSS-132 Issue 4 Jan. 2023

ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018,

ISED RSS-139 Issue 4 Amendment
Oct. 2022

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 D01 Determining ERP and EIRP v01r01

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
	Conducted 6			
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
Conducted F				
Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

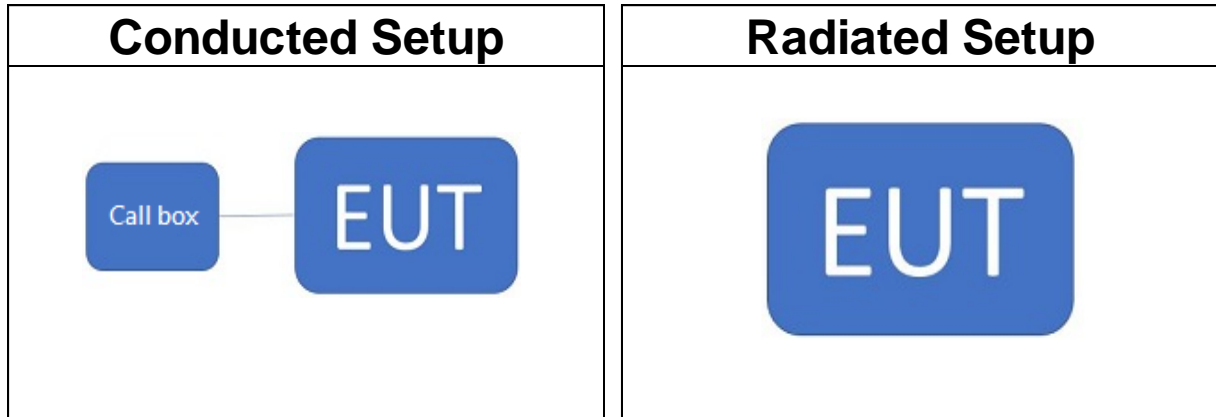
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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2.5 Test Configuration



Note: Radio Communication Analyzer is placed in remote side for radiated test.

2.6 Control Unit(s)

N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(b)(10) §27.50(c)(10) §27.50(d)(4)	RSS-130 §4.6 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5	ERP/ EIRP measurement	Compliant
§2.1053 §2.1057(a)(1) §22.917(a)(b) §24.238(a)(b) §27.53(h)(1)&(3) §27.53(c)(2)~(6) §27.53(f) §27.53(g) §27.53(h)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §5.6	Field Strength of Spurious Radiation	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

4.2 Measurement Configuration

Test Items				Max. Output Power													
Band	Test Channel			Bandwidth (MHz)						Modulation				RB #			
	L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	
2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
5	v	v	v	v	v	v	v	-	-	v	v	v	v	v	v	v	v
12	v	v	v	v	v	v	v	-	-	v	v	v	v	v	v	v	v
13	v	v	v	-	-	v	v	-	-	v	v	v	v	v	v	v	v
66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v

E-UTRA Band	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
				RBs allocated	RB Offset
4	20050,20175,20300	20	QPSK	1	0
12	23060,23095,23130	10	QPSK	1	0

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Power Density	+/- 0.61 dB
RF Power Output	+/- 0.97 dB
ERP/ EIRP measurement	+/- 2.15 dB
	+/- 2.15 dB
Emission Bandwidth	+/- 1.38 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.77 dB
Peak to Average Ratio	+/- 0.97 dB
Frequency Stability vs. Temperature	+/- 1.48 Hz
Frequency Stability vs. Voltage	+/- 1.48 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	+/-	1.89	dB	9kHz~30MHz
	+/-	4.15	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89	dB	9kHz~30MHz
	+/-	4.02	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2	dB	33GHz-50GHz
	+/-	1.59	dB	50GHz-60GHz
	+/-	1.7	dB	60GHz-90GHz
	+/-	1.64	dB	90GHz-140GHz
	+/-	3.83	dB	140GHz-220GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyser	Anritsu	MT8820C	6201107337	07/14/2023	07/13/2024

6.2 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/02/2023	11/01/2024
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/14/2023	12/13/2024
Horn Antenna	Schwarzbeck	BBHA9170	184	12/28/2023	12/27/2024
Horn Antenna	Schwarzbeck	BBHA9170	185	08/21/2023	08/20/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/24/2024	01/23/2025
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/26/2023	05/25/2024
3m Site NSA	SGS	966 chamber C	N/A	03/02/2024	03/01/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
Radio Communication Analyser	Anritsu	MT8821C	6262044732	11/16/2023	11/15/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330	980096	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM-9100	150704	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	MY17388/4	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W22.03	11/15/2023	11/14/2024

NOTE: N.C.R refers to Not Calibrated Required.

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7 STANDARD APPLICABLE

7.1 Maximum Output Power

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

7.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50 (b)

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

FCC 27.50(c)

(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

RSS-130 §4.6

The e.r.p. shall not exceed 3 watts for portable equipment and indoor fixed subscriber equipment operating in 698-756 and 777-787 MHz.

RSS-132 §5.4

The transmitter output power shall be measured in terms of average power. The equivalent radiated power (e.r.p.) shall not exceed 7 watts for mobile equipment and 3 watts for portable equipment.

The effective isotropic radiated power (e.i.r.p.) shall not exceed the limits specified in SRSP-503 for base station equipment.

RSS-133 §6.4

The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510.

According to section 5.1.2 of SRSP-510, Mobile stations and hand-held portables are limited to 2 watts maximum e.i.r.p. The equipment shall employ means to limit the power to the minimum necessary for successful communication.

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RSS-139 §5.5

The maximum output power of the equipment shall comply with the limits specified below. In the tables, maximum power refers to the equivalent isotropically radiated power (e.i.r.p.) or total radiated power (TRP), measured in terms of average values.

The limits in this RSS are specified for the purpose of certification and may not apply to all deployment scenarios. Consult SRSP-513 and SRSP-519 for more details on the bands 2110-2180 MHz and 2180-2200 MHz respectively

Table 3: Maximum power of equipment in the band 1710-1780 MHz	
Equipment type	Maximum power
Fixed station and base station	30 dBm e.i.r.p./channel bandwidth
Subscriber equipment	30 dBm e.i.r.p./channel bandwidth

Table 4: Maximum power of equipment in the band 2110-2180 MHz	
Equipment type	Maximum power
Non-AAS fixed station and base station	65 dBm e.i.r.p./MHz
AAS fixed station and base station	46 dBm TRP/MHz
Subscriber equipment	30 dBm e.i.r.p./channel bandwidth

Table 5: Maximum power of equipment in the band 2180-2200 MHz	
Equipment type	Maximum power
Non-AAS base station	65 dBm e.i.r.p./MHz
AAS base station	46 dBm TRP/MHz

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7.2 Field Strength Of Spurious Radiation Measurement

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h), §90.543(e)(3)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §5.6, RSS-199 §4.5

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

FCC §27.53(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(h)(1)

(h) *AWS emission limits*—(1) *General protection levels*. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

RSS-130 §4.7.1

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

RSS-130 §4.7.2

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

$76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
 $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

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RSS-132 §5.5

i. Equipment shall meet the unwanted emission limits specified below:

In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB.

ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

RSS-133 §6.5.1

Equipment shall comply with the limits in (i) and (ii) below.

i. In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10}p(\text{watts})$.

ii. After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10}p(\text{watts})$. If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

RSS-139 §5.6 for

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits	
Offset from the edge of the frequency block or frequency block group	Unwanted emission limits
1 MHz	-13 dBm/(1% of OB*)
>1 MHz	-13 dBm/MHz
Subscriber equipment	30 dBm e.i.r.p./channel bandwidth

*OB is the occupied bandwidth.

In addition to complying with the above limits, equipment operating in the band 2180-2200 MHz may require additional filtering (see SRSP-519).

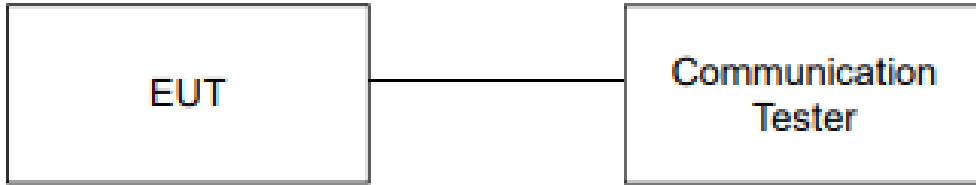
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8 TEST SETUP

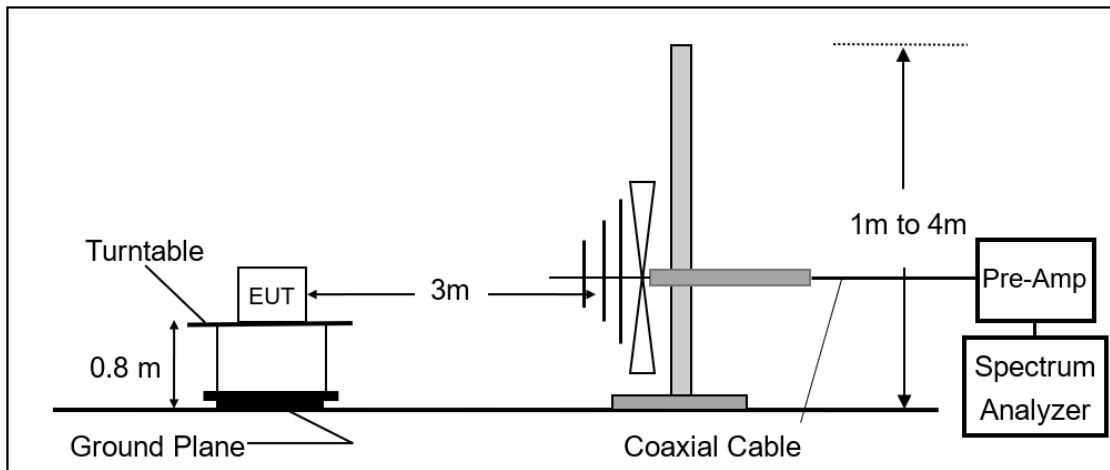
8.1 Maximum Output Power



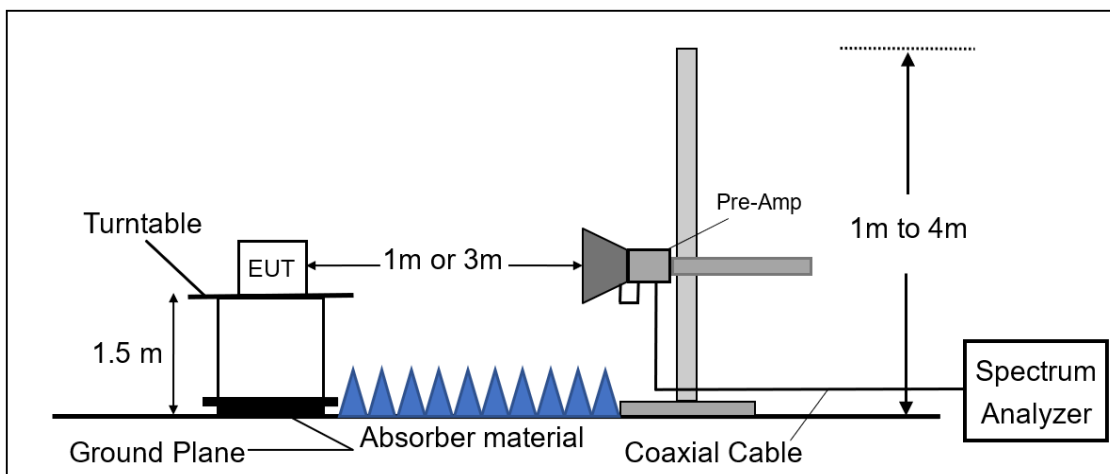
Note: Measurement setup for testing on Antenna connector

8.2 Field Strength of Spurious Radiation Measurement

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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9 TEST PROCEDURE

9.1 Maximum Output Power

9.1.1 Output Power Measurement Applicable Guidance

The transmitter output was connected to a communication tester. Transmitter output was read off the communication tester in dBm. The power output at the transmitter antenna port was determined by the communication tester reading.

KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

9.1.2 Determining ERP and/or EIRP from conducted RF output power measurements

According to KDB 412172 D01 Power Approach,

$$EIRP = P_T + G_T - L_C,$$

$$ERP = EIRP - 2.15,$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as P_T , typically dBW, dBm, or power spectral density (PSD)²), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);

P_T = transmitter output power, expressed in dBW, dBm, or PSD;

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

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

9.2 Field Strength of Spurious Radiation Measurement

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$ERP \text{ (dBm)} = \text{SG Level (dBm)} + \text{Antenna Gain (dBd)} + \text{Cable Loss (dB)}$$

$$EIRP \text{ (dBm)} = \text{SG Level (dBm)} + \text{Antenna Gain (dBi)} + \text{Cable Loss (dB)}$$

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10 MEASUREMENT RESULTS

10.1 Maximum Output Power

Antenna gain (dBi)		2							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	20.72	22.72	33	-10.28
				1	5	20.57	22.57	33	-10.43
				3	2	20.64	22.64	33	-10.36
				6	0	19.65	21.65	33	-11.35
	18900	1880	QPSK	1	0	20.58	22.58	33	-10.42
				1	5	20.65	22.65	33	-10.35
				3	2	20.66	22.66	33	-10.34
				6	0	19.58	21.58	33	-11.42
	19193	1909.3	QPSK	1	0	20.68	22.68	33	-10.32
				1	5	20.61	22.61	33	-10.39
				3	2	20.60	22.60	33	-10.4
				6	0	19.65	21.65	33	-11.35
1.4	18607	1850.7	16QAM	1	0	19.65	21.65	33	-11.35
				1	5	19.57	21.57	33	-11.43
				3	2	19.61	21.61	33	-11.39
				6	0	18.74	20.74	33	-12.26
	18900	1880	16QAM	1	0	19.51	21.51	33	-11.49
				1	5	19.64	21.64	33	-11.36
				3	2	19.55	21.55	33	-11.45
				6	0	18.58	20.58	33	-12.42
	19193	1909.3	16QAM	1	0	19.67	21.67	33	-11.33
				1	5	19.58	21.58	33	-11.42
				3	2	19.71	21.71	33	-11.29
				6	0	18.71	20.71	33	-12.29

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Antenna gain (dBi)		2							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	20.75	22.75	33	-10.25
				1	14	20.66	22.66	33	-10.34
				8	4	19.65	21.65	33	-11.35
				15	0	19.66	21.66	33	-11.34
	18900	1880	QPSK	1	0	20.64	22.64	33	-10.36
				1	14	20.50	22.50	33	-10.5
				8	4	19.66	21.66	33	-11.34
				15	0	19.50	21.50	33	-11.5
	19185	1908.5	QPSK	1	0	20.57	22.57	33	-10.43
				1	14	20.56	22.56	33	-10.44
				8	4	19.55	21.55	33	-11.45
				15	0	19.50	21.50	33	-11.5
3	18615	1851.5	16QAM	1	0	19.61	21.61	33	-11.39
				1	14	19.61	21.61	33	-11.39
				8	4	18.73	20.73	33	-12.27
				15	0	18.67	20.67	33	-12.33
	18900	1880	16QAM	1	0	19.62	21.62	33	-11.38
				1	14	19.61	21.61	33	-11.39
				8	4	18.56	20.56	33	-12.44
				15	0	18.62	20.62	33	-12.38
	19185	1908.5	16QAM	1	0	19.62	21.62	33	-11.38
				1	14	19.57	21.57	33	-11.43
				8	4	18.65	20.65	33	-12.35
				15	0	18.66	20.66	33	-12.34

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Antenna gain (dBi)		2							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	20.76	22.76	33	-10.24
				1	24	20.55	22.55	33	-10.45
				12	6	19.69	21.69	33	-11.31
				25	0	19.76	21.76	33	-11.24
	18900	1880	QPSK	1	0	20.55	22.55	33	-10.45
				1	24	20.65	22.65	33	-10.35
				12	6	19.50	21.50	33	-11.5
				25	0	19.57	21.57	33	-11.43
	19175	1907.5	QPSK	1	0	20.69	22.69	33	-10.31
				1	24	20.67	22.67	33	-10.33
				12	6	19.66	21.66	33	-11.34
				25	0	19.60	21.60	33	-11.4
5	18625	1852.5	16QAM	1	0	19.65	21.65	33	-11.35
				1	24	19.68	21.68	33	-11.32
				12	6	18.67	20.67	33	-12.33
				25	0	18.59	20.59	33	-12.41
	18900	1880	16QAM	1	0	19.55	21.55	33	-11.45
				1	24	19.54	21.54	33	-11.46
				12	6	18.52	20.52	33	-12.48
				25	0	18.54	20.54	33	-12.46
	19175	1907.5	16QAM	1	0	19.60	21.60	33	-11.4
				1	24	19.73	21.73	33	-11.27
				12	6	18.59	20.59	33	-12.41
				25	0	18.62	20.62	33	-12.38

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Antenna gain (dBi)		2							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	20.74	22.74	33	-10.26
				1	49	20.60	22.60	33	-10.4
				25	12	19.64	21.64	33	-11.36
				50	0	19.60	21.60	33	-11.4
	18900	1880	QPSK	1	0	20.53	22.53	33	-10.47
				1	49	20.50	22.50	33	-10.5
				25	12	19.57	21.57	33	-11.43
				50	0	19.51	21.51	33	-11.49
	19150	1905	QPSK	1	0	20.59	22.59	33	-10.41
				1	49	20.55	22.55	33	-10.45
				25	12	19.50	21.50	33	-11.5
				50	0	19.56	21.56	33	-11.44
10	18650	1855	16QAM	1	0	19.74	21.74	33	-11.26
				1	49	19.74	21.74	33	-11.26
				25	12	18.68	20.68	33	-12.32
				50	0	18.70	20.70	33	-12.3
	18900	1880	16QAM	1	0	19.54	21.54	33	-11.46
				1	49	19.55	21.55	33	-11.45
				25	12	18.50	20.50	33	-12.5
				50	0	18.62	20.62	33	-12.38
	19150	1905	16QAM	1	0	19.70	21.70	33	-11.3
				1	49	19.63	21.63	33	-11.37
				25	12	18.67	20.67	33	-12.33
				50	0	18.51	20.51	33	-12.49

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Antenna gain (dBi)		2							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	20.71	22.71	33	-10.29
				1	74	20.58	22.58	33	-10.42
				36	18	19.67	21.67	33	-11.33
				75	0	19.69	21.69	33	-11.31
	18900	1880	QPSK	1	0	20.53	22.53	33	-10.47
				1	74	20.59	22.59	33	-10.41
				36	18	19.56	21.56	33	-11.44
				75	0	19.63	21.63	33	-11.37
	19125	1902.5	QPSK	1	0	20.60	22.60	33	-10.4
				1	74	20.55	22.55	33	-10.45
				36	18	19.52	21.52	33	-11.48
				75	0	19.54	21.54	33	-11.46
15	18675	1857.5	16QAM	1	0	19.58	21.58	33	-11.42
				1	74	19.58	21.58	33	-11.42
				36	18	18.69	20.69	33	-12.31
				75	0	18.74	20.74	33	-12.26
	18900	1880	16QAM	1	0	19.50	21.50	33	-11.5
				1	74	19.63	21.63	33	-11.37
				36	18	18.51	20.51	33	-12.49
				75	0	18.61	20.61	33	-12.39
	19125	1902.5	16QAM	1	0	19.55	21.55	33	-11.45
				1	74	19.66	21.66	33	-11.34
				36	18	18.66	20.66	33	-12.34
				75	0	18.62	20.62	33	-12.38

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Antenna gain (dBi)		2							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	20.83	22.83	33	-10.17
				1	99	20.76	22.76	33	-10.24
				50	25	19.60	21.60	33	-11.4
				100	0	19.61	21.61	33	-11.39
	18900	1880	QPSK	1	0	20.70	22.70	33	-10.3
				1	99	20.66	22.66	33	-10.34
				50	25	19.62	21.62	33	-11.38
				100	0	19.52	21.52	33	-11.48
	19100	1900	QPSK	1	0	20.76	22.76	33	-10.24
				1	99	20.65	22.65	33	-10.35
				50	25	19.61	21.61	33	-11.39
				100	0	19.60	21.60	33	-11.4
20	18700	1860	16QAM	1	0	19.61	21.61	33	-11.39
				1	99	19.64	21.64	33	-11.36
				50	25	18.71	20.71	33	-12.29
				100	0	18.68	20.68	33	-12.32
	18900	1880	16QAM	1	0	19.66	21.66	33	-11.34
				1	99	19.62	21.62	33	-11.38
				50	25	18.55	20.55	33	-12.45
				100	0	18.54	20.54	33	-12.46
	19100	1900	16QAM	1	0	19.56	21.56	33	-11.44
				1	99	19.64	21.64	33	-11.36
				50	25	18.68	20.68	33	-12.32
				100	0	18.53	20.53	33	-12.47

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Antenna gain (dBi)		1.49							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	20.52	22.01	30	-7.99
				1	5	20.51	22.00	30	-8
				3	2	20.63	22.12	30	-7.88
				6	0	19.54	21.03	30	-8.97
	20175	1732.5	QPSK	1	0	20.76	22.25	30	-7.75
				1	5	20.87	22.36	30	-7.64
				3	2	20.88	22.37	30	-7.63
				6	0	19.82	21.31	30	-8.69
	20393	1754.3	QPSK	1	0	20.94	22.43	30	-7.57
				1	5	20.99	22.48	30	-7.52
				3	2	20.90	22.39	30	-7.61
				6	0	19.83	21.32	30	-8.68
1.4	19957	1710.7	16QAM	1	0	19.51	21.00	30	-9
				1	5	19.60	21.09	30	-8.91
				3	2	19.50	20.99	30	-9.01
				6	0	18.57	20.06	30	-9.94
	20175	1732.5	16QAM	1	0	19.81	21.30	30	-8.7
				1	5	19.91	21.40	30	-8.6
				3	2	19.91	21.40	30	-8.6
				6	0	18.93	20.42	30	-9.58
	20393	1754.3	16QAM	1	0	19.99	21.48	30	-8.52
				1	5	19.98	21.47	30	-8.53
				3	2	19.92	21.41	30	-8.59
				6	0	18.90	20.39	30	-9.61

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Antenna gain (dBi)		1.49							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	20.55	22.04	30	-7.96
				1	14	20.54	22.03	30	-7.97
				8	4	19.52	21.01	30	-8.99
				15	0	19.52	21.01	30	-8.99
	20175	1732.5	QPSK	1	0	20.92	22.41	30	-7.59
				1	14	20.93	22.42	30	-7.58
				8	4	19.76	21.25	30	-8.75
				15	0	19.75	21.24	30	-8.76
	20385	1753.5	QPSK	1	0	20.98	22.47	30	-7.53
				1	14	20.87	22.36	30	-7.64
				8	4	19.88	21.37	30	-8.63
				15	0	19.95	21.44	30	-8.56
3	19965	1711.5	16QAM	1	0	19.72	21.21	30	-8.79
				1	14	19.51	21.00	30	-9
				8	4	18.61	20.10	30	-9.9
				15	0	18.55	20.04	30	-9.96
	20175	1732.5	16QAM	1	0	19.76	21.25	30	-8.75
				1	14	19.92	21.41	30	-8.59
				8	4	18.97	20.46	30	-9.54
				15	0	18.75	20.24	30	-9.76
	20385	1753.5	16QAM	1	0	19.86	21.35	30	-8.65
				1	14	19.91	21.40	30	-8.6
				8	4	18.96	20.45	30	-9.55
				15	0	18.81	20.30	30	-9.7

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Antenna gain (dBi)		1.49							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	20.53	22.02	30	-7.98
				1	24	20.56	22.05	30	-7.95
				12	6	19.56	21.05	30	-8.95
				25	0	19.61	21.10	30	-8.9
	20175	1732.5	QPSK	1	0	20.97	22.46	30	-7.54
				1	24	20.78	22.27	30	-7.73
				12	6	19.72	21.21	30	-8.79
				25	0	19.85	21.34	30	-8.66
	20375	1752.5	QPSK	1	0	20.92	22.41	30	-7.59
				1	24	20.89	22.38	30	-7.62
				12	6	19.87	21.36	30	-8.64
				25	0	19.92	21.41	30	-8.59
5	19975	1712.5	16QAM	1	0	19.60	21.09	30	-8.91
				1	24	19.61	21.10	30	-8.9
				12	6	18.60	20.09	30	-9.91
				25	0	18.65	20.14	30	-9.86
	20175	1732.5	16QAM	1	0	19.90	21.39	30	-8.61
				1	24	19.80	21.29	30	-8.71
				12	6	18.79	20.28	30	-9.72
				25	0	18.85	20.34	30	-9.66
	20375	1752.5	16QAM	1	0	19.90	21.39	30	-8.61
				1	24	19.91	21.40	30	-8.6
				12	6	18.93	20.42	30	-9.58
				25	0	18.96	20.45	30	-9.55

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Antenna gain (dBi)		1.49							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	20.59	22.08	30	-7.92
				1	49	20.59	22.08	30	-7.92
				25	12	19.51	21.00	30	-9
				50	0	19.57	21.06	30	-8.94
	20175	1732.5	QPSK	1	0	20.81	22.30	30	-7.7
				1	49	20.97	22.46	30	-7.54
				25	12	19.85	21.34	30	-8.66
				50	0	19.85	21.34	30	-8.66
	20350	1750	QPSK	1	0	20.83	22.32	30	-7.68
				1	49	20.98	22.47	30	-7.53
				25	12	19.88	21.37	30	-8.63
				50	0	19.86	21.35	30	-8.65
10	20000	1715	16QAM	1	0	19.51	21.00	30	-9
				1	49	19.53	21.02	30	-8.98
				25	12	18.50	19.99	30	-10.01
				50	0	18.54	20.03	30	-9.97
	20175	1732.5	16QAM	1	0	19.89	21.38	30	-8.62
				1	49	19.84	21.33	30	-8.67
				25	12	18.96	20.45	30	-9.55
				50	0	18.83	20.32	30	-9.68
	20350	1750	16QAM	1	0	19.84	21.33	30	-8.67
				1	49	19.85	21.34	30	-8.66
				25	12	18.92	20.41	30	-9.59
				50	0	18.83	20.32	30	-9.68

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Antenna gain (dBi)		1.49							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	20.55	22.04	30	-7.96
				1	74	20.61	22.10	30	-7.9
				36	18	19.50	20.99	30	-9.01
				75	0	19.52	21.01	30	-8.99
	20175	1732.5	QPSK	1	0	20.88	22.37	30	-7.63
				1	74	20.83	22.32	30	-7.68
				36	18	19.97	21.46	30	-8.54
				75	0	19.90	21.39	30	-8.61
	20325	1747.5	QPSK	1	0	20.92	22.41	30	-7.59
				1	74	20.79	22.28	30	-7.72
				36	18	19.89	21.38	30	-8.62
				75	0	20.00	21.49	30	-8.51
15	20025	1717.5	16QAM	1	0	19.55	21.04	30	-8.96
				1	74	19.55	21.04	30	-8.96
				36	18	18.55	20.04	30	-9.96
				75	0	18.50	19.99	30	-10.01
	20175	1732.5	16QAM	1	0	19.91	21.40	30	-8.6
				1	74	19.84	21.33	30	-8.67
				36	18	18.78	20.27	30	-9.73
				75	0	18.98	20.47	30	-9.53
	20325	1747.5	16QAM	1	0	19.85	21.34	30	-8.66
				1	74	20.02	21.51	30	-8.49
				36	18	18.92	20.41	30	-9.59
				75	0	18.94	20.43	30	-9.57

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Antenna gain (dBi)		1.49							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	20.68	22.17	30	-7.83
				1	99	20.54	22.03	30	-7.97
				50	25	19.54	21.03	30	-8.97
				100	0	19.60	21.09	30	-8.91
	20175	1732.5	QPSK	1	0	21.02	22.51	30	-7.49
				1	99	20.83	22.32	30	-7.68
				50	25	19.79	21.28	30	-8.72
				100	0	19.88	21.37	30	-8.63
	20300	1745	QPSK	1	0	21.08	22.57	30	-7.43
				1	99	20.88	22.37	30	-7.63
				50	25	19.90	21.39	30	-8.61
				100	0	19.83	21.32	30	-8.68
20	20050	1720	16QAM	1	0	19.54	21.03	30	-8.97
				1	99	19.50	20.99	30	-9.01
				50	25	18.60	20.09	30	-9.91
				100	0	18.51	20.00	30	-10
	20175	1732.5	16QAM	1	0	19.73	21.22	30	-8.78
				1	99	19.91	21.40	30	-8.6
				50	25	18.86	20.35	30	-9.65
				100	0	18.97	20.46	30	-9.54
	20300	1745	16QAM	1	0	19.99	21.48	30	-8.52
				1	99	19.98	21.47	30	-8.53
				50	25	18.99	20.48	30	-9.52
				100	0	19.00	20.49	30	-9.51

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Antenna gain (dBi)		2.3								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	22.61	24.91	22.76	38.45	-15.69
				1	5	22.53	24.83	22.68	38.45	-15.77
				3	2	22.67	24.97	22.82	38.45	-15.63
				6	0	21.62	23.92	21.77	38.45	-16.68
	20525	836.5	QPSK	1	0	22.32	24.62	22.47	38.45	-15.98
				1	5	22.38	24.68	22.53	38.45	-15.92
				3	2	22.38	24.68	22.53	38.45	-15.92
				6	0	21.44	23.74	21.59	38.45	-16.86
	20643	848.3	QPSK	1	0	22.47	24.77	22.62	38.45	-15.83
				1	5	22.51	24.81	22.66	38.45	-15.79
				3	2	22.42	24.72	22.57	38.45	-15.88
				6	0	21.42	23.72	21.57	38.45	-16.88
1.4	20407	824.7	16QAM	1	0	21.58	23.88	21.73	38.45	-16.72
				1	5	21.78	24.08	21.93	38.45	-16.52
				3	2	21.67	23.97	21.82	38.45	-16.63
				6	0	20.75	23.05	20.90	38.45	-17.55
	20525	836.5	16QAM	1	0	21.45	23.75	21.60	38.45	-16.85
				1	5	21.41	23.71	21.56	38.45	-16.89
				3	2	21.37	23.67	21.52	38.45	-16.93
				6	0	20.33	22.63	20.48	38.45	-17.97
	20643	848.3	16QAM	1	0	21.53	23.83	21.68	38.45	-16.77
				1	5	21.51	23.81	21.66	38.45	-16.79
				3	2	21.61	23.91	21.76	38.45	-16.69
				6	0	20.43	22.73	20.58	38.45	-17.87

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Antenna gain (dBi)		2.3								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	22.61	24.91	22.76	38.45	-15.69
				1	14	22.58	24.88	22.73	38.45	-15.72
				8	4	21.65	23.95	21.80	38.45	-16.65
				15	0	21.63	23.93	21.78	38.45	-16.67
	20525	836.5	QPSK	1	0	22.37	24.67	22.52	38.45	-15.93
				1	14	22.34	24.64	22.49	38.45	-15.96
				8	4	21.42	23.72	21.57	38.45	-16.88
				15	0	21.51	23.81	21.66	38.45	-16.79
	20635	847.5	QPSK	1	0	22.44	24.74	22.59	38.45	-15.86
				1	14	22.53	24.83	22.68	38.45	-15.77
				8	4	21.57	23.87	21.72	38.45	-16.73
				15	0	21.59	23.89	21.74	38.45	-16.71
3	20415	825.5	16QAM	1	0	21.76	24.06	21.91	38.45	-16.54
				1	14	21.61	23.91	21.76	38.45	-16.69
				8	4	20.72	23.02	20.87	38.45	-17.58
				15	0	20.54	22.84	20.69	38.45	-17.76
	20525	836.5	16QAM	1	0	21.44	23.74	21.59	38.45	-16.86
				1	14	21.50	23.80	21.65	38.45	-16.80
				8	4	20.45	22.75	20.60	38.45	-17.85
				15	0	20.32	22.62	20.47	38.45	-17.98
	20635	847.5	16QAM	1	0	21.44	23.74	21.59	38.45	-16.86
				1	14	21.62	23.92	21.77	38.45	-16.68
				8	4	20.57	22.87	20.72	38.45	-17.73
				15	0	20.53	22.83	20.68	38.45	-17.77

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Antenna gain (dBi)		2.3								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	22.76	25.06	22.91	38.45	-15.54
				1	24	22.59	24.89	22.74	38.45	-15.71
				12	6	21.67	23.97	21.82	38.45	-16.63
				25	0	21.62	23.92	21.77	38.45	-16.68
	20525	836.5	QPSK	1	0	22.34	24.64	22.49	38.45	-15.96
				1	24	22.39	24.69	22.54	38.45	-15.91
				12	6	21.49	23.79	21.64	38.45	-16.81
				25	0	21.41	23.71	21.56	38.45	-16.89
	20625	846.5	QPSK	1	0	22.52	24.82	22.67	38.45	-15.78
				1	24	22.52	24.82	22.67	38.45	-15.78
				12	6	21.55	23.85	21.70	38.45	-16.75
				25	0	21.57	23.87	21.72	38.45	-16.73
5	20425	826.5	16QAM	1	0	21.74	24.04	21.89	38.45	-16.56
				1	24	21.64	23.94	21.79	38.45	-16.66
				12	6	20.63	22.93	20.78	38.45	-17.67
				25	0	20.65	22.95	20.80	38.45	-17.65
	20525	836.5	16QAM	1	0	21.40	23.70	21.55	38.45	-16.90
				1	24	21.42	23.72	21.57	38.45	-16.88
				12	6	20.53	22.83	20.68	38.45	-17.77
				25	0	20.48	22.78	20.63	38.45	-17.82
	20625	846.5	16QAM	1	0	21.41	23.71	21.56	38.45	-16.89
				1	24	21.58	23.88	21.73	38.45	-16.72
				12	6	20.46	22.76	20.61	38.45	-17.84
				25	0	20.55	22.85	20.70	38.45	-17.75

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Antenna gain (dBi)		2.3								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	22.80	25.10	22.95	38.45	-15.50
				1	49	22.70	25.00	22.85	38.45	-15.60
				25	12	21.59	23.89	21.74	38.45	-16.71
				50	0	21.66	23.96	21.81	38.45	-16.64
	20525	836.5	QPSK	1	0	22.58	24.88	22.73	38.45	-15.72
				1	49	22.43	24.73	22.58	38.45	-15.87
				25	12	21.35	23.65	21.50	38.45	-16.95
				50	0	21.42	23.72	21.57	38.45	-16.88
	20600	844	QPSK	1	0	22.66	24.96	22.81	38.45	-15.64
				1	49	22.48	24.78	22.63	38.45	-15.82
				25	12	21.50	23.80	21.65	38.45	-16.80
				50	0	21.43	23.73	21.58	38.45	-16.87
10	20450	829	16QAM	1	0	21.71	24.01	21.86	38.45	-16.59
				1	49	21.69	23.99	21.84	38.45	-16.61
				25	12	20.53	22.83	20.68	38.45	-17.77
				50	0	20.63	22.93	20.78	38.45	-17.67
	20525	836.5	16QAM	1	0	21.50	23.80	21.65	38.45	-16.80
				1	49	21.51	23.81	21.66	38.45	-16.79
				25	12	20.45	22.75	20.60	38.45	-17.85
				50	0	20.49	22.79	20.64	38.45	-17.81
	20600	844	16QAM	1	0	21.48	23.78	21.63	38.45	-16.82
				1	49	21.51	23.81	21.66	38.45	-16.79
				25	12	20.49	22.79	20.64	38.45	-17.81
				50	0	20.39	22.69	20.54	38.45	-17.91

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Antenna gain (dBi)		0.68								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	22.77	23.45	21.30	34.77	-13.47
				1	5	22.86	23.54	21.39	34.77	-13.38
				3	2	22.70	23.38	21.23	34.77	-13.54
				6	0	21.84	22.52	20.37	34.77	-14.40
	23095	707.5	QPSK	1	0	21.95	22.63	20.48	34.77	-14.29
				1	5	22.04	22.72	20.57	34.77	-14.20
				3	2	21.88	22.56	20.41	34.77	-14.36
				6	0	21.04	21.72	19.57	34.77	-15.20
	23173	715.3	QPSK	1	0	22.62	23.30	21.15	34.77	-13.62
				1	5	22.67	23.35	21.20	34.77	-13.57
				3	2	22.64	23.32	21.17	34.77	-13.60
				6	0	21.63	22.31	20.16	34.77	-14.61
1.4	23017	699.7	16QAM	1	0	21.78	22.46	20.31	34.77	-14.46
				1	5	21.88	22.56	20.41	34.77	-14.36
				3	2	21.82	22.50	20.35	34.77	-14.42
				6	0	20.74	21.42	19.27	34.77	-15.50
	23095	707.5	16QAM	1	0	21.00	21.68	19.53	34.77	-15.24
				1	5	21.11	21.79	19.64	34.77	-15.13
				3	2	21.04	21.72	19.57	34.77	-15.20
				6	0	20.02	20.70	18.55	34.77	-16.22
	23173	715.3	16QAM	1	0	21.64	22.32	20.17	34.77	-14.60
				1	5	21.58	22.26	20.11	34.77	-14.66
				3	2	21.75	22.43	20.28	34.77	-14.49
				6	0	20.52	21.20	19.05	34.77	-15.72

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Antenna gain (dBi)		0.68								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	22.78	23.46	21.31	34.77	-13.46
				1	14	22.70	23.38	21.23	34.77	-13.54
				8	4	21.63	22.31	20.16	34.77	-14.61
				15	0	21.83	22.51	20.36	34.77	-14.41
	23095	707.5	QPSK	1	0	22.06	22.74	20.59	34.77	-14.18
				1	14	22.04	22.72	20.57	34.77	-14.20
				8	4	21.03	21.71	19.56	34.77	-15.21
				15	0	20.90	21.58	19.43	34.77	-15.34
	23165	714.5	QPSK	1	0	22.64	23.32	21.17	34.77	-13.60
				1	14	22.65	23.33	21.18	34.77	-13.59
				8	4	21.71	22.39	20.24	34.77	-14.53
				15	0	21.56	22.24	20.09	34.77	-14.68
3	23025	700.5	16QAM	1	0	21.69	22.37	20.22	34.77	-14.55
				1	14	21.69	22.37	20.22	34.77	-14.55
				8	4	20.73	21.41	19.26	34.77	-15.51
				15	0	20.82	21.50	19.35	34.77	-15.42
	23095	707.5	16QAM	1	0	20.99	21.67	19.52	34.77	-15.25
				1	14	21.04	21.72	19.57	34.77	-15.20
				8	4	20.02	20.70	18.55	34.77	-16.22
				15	0	20.02	20.70	18.55	34.77	-16.22
	23165	714.5	16QAM	1	0	21.54	22.22	20.07	34.77	-14.70
				1	14	21.64	22.32	20.17	34.77	-14.60
				8	4	20.53	21.21	19.06	34.77	-15.71
				15	0	20.63	21.31	19.16	34.77	-15.61

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Antenna gain (dBi)		0.68								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	22.72	23.40	21.25	34.77	-13.52
				1	24	22.73	23.41	21.26	34.77	-13.51
				12	6	21.84	22.52	20.37	34.77	-14.40
				25	0	21.82	22.50	20.35	34.77	-14.42
	23095	707.5	QPSK	1	0	21.99	22.67	20.52	34.77	-14.25
				1	24	21.95	22.63	20.48	34.77	-14.29
				12	6	20.89	21.57	19.42	34.77	-15.35
				25	0	20.89	21.57	19.42	34.77	-15.35
	23155	713.5	QPSK	1	0	22.63	23.31	21.16	34.77	-13.61
				1	24	22.53	23.21	21.06	34.77	-13.71
				12	6	21.58	22.26	20.11	34.77	-14.66
				25	0	21.60	22.28	20.13	34.77	-14.64
5	23035	701.5	16QAM	1	0	21.79	22.47	20.32	34.77	-14.45
				1	24	21.75	22.43	20.28	34.77	-14.49
				12	6	20.64	21.32	19.17	34.77	-15.60
				25	0	20.73	21.41	19.26	34.77	-15.51
	23095	707.5	16QAM	1	0	20.98	21.66	19.51	34.77	-15.26
				1	24	20.97	21.65	19.50	34.77	-15.27
				12	6	20.02	20.70	18.55	34.77	-16.22
				25	0	20.05	20.73	18.58	34.77	-16.19
	23155	713.5	16QAM	1	0	21.60	22.28	20.13	34.77	-14.64
				1	24	21.66	22.34	20.19	34.77	-14.58
				12	6	20.56	21.24	19.09	34.77	-15.68
				25	0	20.75	21.43	19.28	34.77	-15.49

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Antenna gain (dBi)		0.68								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	22.92	23.60	21.45	34.77	-13.32
				1	49	22.73	23.41	21.26	34.77	-13.51
				25	12	21.86	22.54	20.39	34.77	-14.38
				50	0	21.83	22.51	20.36	34.77	-14.41
	23095	707.5	QPSK	1	0	22.17	22.85	20.70	34.77	-14.07
				1	49	21.97	22.65	20.50	34.77	-14.27
				25	12	21.06	21.74	19.59	34.77	-15.18
				50	0	20.98	21.66	19.51	34.77	-15.26
	23130	711	QPSK	1	0	22.78	23.46	21.31	34.77	-13.46
				1	49	22.52	23.20	21.05	34.77	-13.72
				25	12	21.63	22.31	20.16	34.77	-14.61
				50	0	21.51	22.19	20.04	34.77	-14.73
10	23060	704	16QAM	1	0	21.76	22.44	20.29	34.77	-14.48
				1	49	21.65	22.33	20.18	34.77	-14.59
				25	12	20.71	21.39	19.24	34.77	-15.53
				50	0	20.67	21.35	19.20	34.77	-15.57
	23095	707.5	16QAM	1	0	20.97	21.65	19.50	34.77	-15.27
				1	49	21.06	21.74	19.59	34.77	-15.18
				25	12	19.93	20.61	18.46	34.77	-16.31
				50	0	20.06	20.74	18.59	34.77	-16.18
	23130	711	16QAM	1	0	21.72	22.40	20.25	34.77	-14.52
				1	49	21.54	22.22	20.07	34.77	-14.70
				25	12	20.62	21.30	19.15	34.77	-15.62
				50	0	20.66	21.34	19.19	34.77	-15.58

Antenna gain (dBi)		2.3								
LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	22.26	24.56	22.41	34.77	-12.36
				1	24	22.18	24.48	22.33	34.77	-12.44
				12	6	21.18	23.48	21.33	34.77	-13.44
				25	0	21.14	23.44	21.29	34.77	-13.48
5	23205	779.5	16QAM	1	0	21.23	23.53	21.38	34.77	-13.39
				1	24	21.33	23.63	21.48	34.77	-13.29
				12	6	20.20	22.50	20.35	34.77	-14.42
				25	0	20.14	22.44	20.29	34.77	-14.48

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Antenna gain (dBi)		2.3								
LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	22.36	24.66	22.51	34.77	-12.26
				1	49	22.20	24.50	22.35	34.77	-12.42
				25	12	21.09	23.39	21.24	34.77	-13.53
				50	0	21.18	23.48	21.33	34.77	-13.44
10	23230	782	16QAM	1	0	21.19	23.49	21.34	34.77	-13.43
				1	49	21.22	23.52	21.37	34.77	-13.40
				25	12	20.14	22.44	20.29	34.77	-14.48
				50	0	20.25	22.55	20.40	34.77	-14.37

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Antenna gain (dBi)		1.49							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	131979	1710.7	QPSK	1	0	20.30	21.79	30	-8.21
				1	5	20.19	21.68	30	-8.32
				3	2	20.23	21.72	30	-8.28
				6	0	19.18	20.67	30	-9.33
	132322	1745	QPSK	1	0	20.22	21.71	30	-8.29
				1	5	20.24	21.73	30	-8.27
				3	2	20.28	21.77	30	-8.23
				6	0	19.15	20.64	30	-9.36
	132665	1779.3	QPSK	1	0	20.04	21.53	30	-8.47
				1	5	20.03	21.52	30	-8.48
				3	2	20.00	21.49	30	-8.51
				6	0	19.09	20.58	30	-9.42
1.4	131979	1710.7	16QAM	1	0	19.24	20.73	30	-9.27
				1	5	19.24	20.73	30	-9.27
				3	2	19.24	20.73	30	-9.27
				6	0	18.16	19.65	30	-10.35
	132322	1745	16QAM	1	0	19.23	20.72	30	-9.28
				1	5	19.31	20.80	30	-9.2
				3	2	19.17	20.66	30	-9.34
				6	0	18.34	19.83	30	-10.17
	132665	1779.3	16QAM	1	0	19.07	20.56	30	-9.44
				1	5	19.17	20.66	30	-9.34
				3	2	19.13	20.62	30	-9.38
				6	0	18.10	19.59	30	-10.41

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Antenna gain (dBi)		1.49							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	20.19	21.68	30	-8.32
				1	14	20.26	21.75	30	-8.25
				8	4	19.17	20.66	30	-9.34
				15	0	19.19	20.68	30	-9.32
	132322	1745	QPSK	1	0	20.16	21.65	30	-8.35
				1	14	20.34	21.83	30	-8.17
				8	4	19.16	20.65	30	-9.35
				15	0	19.24	20.73	30	-9.27
	132657	1778.5	QPSK	1	0	20.14	21.63	30	-8.37
				1	14	20.02	21.51	30	-8.49
				8	4	19.04	20.53	30	-9.47
				15	0	19.05	20.54	30	-9.46
3	131987	1711.5	16QAM	1	0	19.26	20.75	30	-9.25
				1	14	19.14	20.63	30	-9.37
				8	4	18.23	19.72	30	-10.28
				15	0	18.18	19.67	30	-10.33
	132322	1745	16QAM	1	0	19.36	20.85	30	-9.15
				1	14	19.23	20.72	30	-9.28
				8	4	18.21	19.70	30	-10.3
				15	0	18.23	19.72	30	-10.28
	132657	1778.5	16QAM	1	0	19.07	20.56	30	-9.44
				1	14	19.09	20.58	30	-9.42
				8	4	18.00	19.49	30	-10.51
				15	0	18.06	19.55	30	-10.45

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Antenna gain (dBi)		1.49							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	20.27	21.76	30	-8.24
				1	24	20.15	21.64	30	-8.36
				12	6	19.10	20.59	30	-9.41
				25	0	19.29	20.78	30	-9.22
	132322	1745	QPSK	1	0	20.19	21.68	30	-8.32
				1	24	20.26	21.75	30	-8.25
				12	6	19.32	20.81	30	-9.19
				25	0	19.15	20.64	30	-9.36
	132647	1777.5	QPSK	1	0	20.01	21.50	30	-8.5
				1	24	20.03	21.52	30	-8.48
				12	6	19.00	20.49	30	-9.51
				25	0	19.00	20.49	30	-9.51
5	131997	1712.5	16QAM	1	0	19.25	20.74	30	-9.26
				1	24	19.27	20.76	30	-9.24
				12	6	18.11	19.60	30	-10.4
				25	0	18.23	19.72	30	-10.28
	132322	1745	16QAM	1	0	19.33	20.82	30	-9.18
				1	24	19.26	20.75	30	-9.25
				12	6	18.20	19.69	30	-10.31
				25	0	18.27	19.76	30	-10.24
	132647	1777.5	16QAM	1	0	19.05	20.54	30	-9.46
				1	24	19.00	20.49	30	-9.51
				12	6	18.04	19.53	30	-10.47
				25	0	18.00	19.49	30	-10.51

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Antenna gain (dBi)		1.49							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	132022	1715	QPSK	1	0	20.26	21.75	30	-8.25
				1	49	20.14	21.63	30	-8.37
				25	12	19.24	20.73	30	-9.27
				50	0	19.11	20.60	30	-9.4
	132322	1745	QPSK	1	0	20.31	21.80	30	-8.2
				1	49	20.33	21.82	30	-8.18
				25	12	19.14	20.63	30	-9.37
				50	0	19.16	20.65	30	-9.35
	132622	1775	QPSK	1	0	20.04	21.53	30	-8.47
				1	49	20.10	21.59	30	-8.41
				25	12	19.00	20.49	30	-9.51
				50	0	19.15	20.64	30	-9.36
10	132022	1715	16QAM	1	0	19.20	20.69	30	-9.31
				1	49	19.20	20.69	30	-9.31
				25	12	18.09	19.58	30	-10.42
				50	0	18.13	19.62	30	-10.38
	132322	1745	16QAM	1	0	19.24	20.73	30	-9.27
				1	49	19.24	20.73	30	-9.27
				25	12	18.29	19.78	30	-10.22
				50	0	18.24	19.73	30	-10.27
	132622	1775	16QAM	1	0	19.07	20.56	30	-9.44
				1	49	19.09	20.58	30	-9.42
				25	12	18.00	19.49	30	-10.51
				50	0	18.17	19.66	30	-10.34

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Antenna gain (dBi)		1.49							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	132047	1717.5	QPSK	1	0	20.28	21.77	30	-8.23
				1	74	20.12	21.61	30	-8.39
				36	18	19.18	20.67	30	-9.33
				75	0	19.13	20.62	30	-9.38
	132322	1745	QPSK	1	0	20.30	21.79	30	-8.21
				1	74	20.17	21.66	30	-8.34
				36	18	19.30	20.79	30	-9.21
				75	0	19.19	20.68	30	-9.32
	132597	1772.5	QPSK	1	0	20.03	21.52	30	-8.48
				1	74	20.11	21.60	30	-8.4
				36	18	19.07	20.56	30	-9.44
				75	0	19.01	20.50	30	-9.5
15	132047	1717.5	16QAM	1	0	19.17	20.66	30	-9.34
				1	74	19.19	20.68	30	-9.32
				36	18	18.18	19.67	30	-10.33
				75	0	18.16	19.65	30	-10.35
	132322	1745	16QAM	1	0	19.29	20.78	30	-9.22
				1	74	19.31	20.80	30	-9.2
				36	18	18.25	19.74	30	-10.26
				75	0	18.22	19.71	30	-10.29
	132597	1772.5	16QAM	1	0	19.11	20.60	30	-9.4
				1	74	19.06	20.55	30	-9.45
				36	18	18.02	19.51	30	-10.49
				75	0	18.09	19.58	30	-10.42

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Antenna gain (dBi)		1.49							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	132072	1720	QPSK	1	0	20.35	21.84	30	-8.16
				1	99	20.20	21.69	30	-8.31
				50	25	19.23	20.72	30	-9.28
				100	0	19.12	20.61	30	-9.39
	132322	1745	QPSK	1	0	20.41	21.90	30	-8.1
				1	99	20.30	21.79	30	-8.21
				50	25	19.25	20.74	30	-9.26
				100	0	19.28	20.77	30	-9.23
	132572	1770	QPSK	1	0	20.22	21.71	30	-8.29
				1	99	20.16	21.65	30	-8.35
				50	25	19.07	20.56	30	-9.44
				100	0	19.11	20.60	30	-9.4
20	132072	1720	16QAM	1	0	19.23	20.72	30	-9.28
				1	99	19.20	20.69	30	-9.31
				50	25	18.15	19.64	30	-10.36
				100	0	18.22	19.71	30	-10.29
	132322	1745	16QAM	1	0	19.17	20.66	30	-9.34
				1	99	19.25	20.74	30	-9.26
				50	25	18.35	19.84	30	-10.16
				100	0	18.22	19.71	30	-10.29
	132572	1770	16QAM	1	0	19.04	20.53	30	-9.47
				1	99	19.08	20.57	30	-9.43
				50	25	18.11	19.60	30	-10.4
				100	0	18.10	19.59	30	-10.41

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10.2 Field Strength of Spurious Radiation Measurement

Report Number :TERF2405001307E2

Test Site :SAC C

Operation Mode :LTE B4

Test Date :2024-05-17

Test Mode :Tx

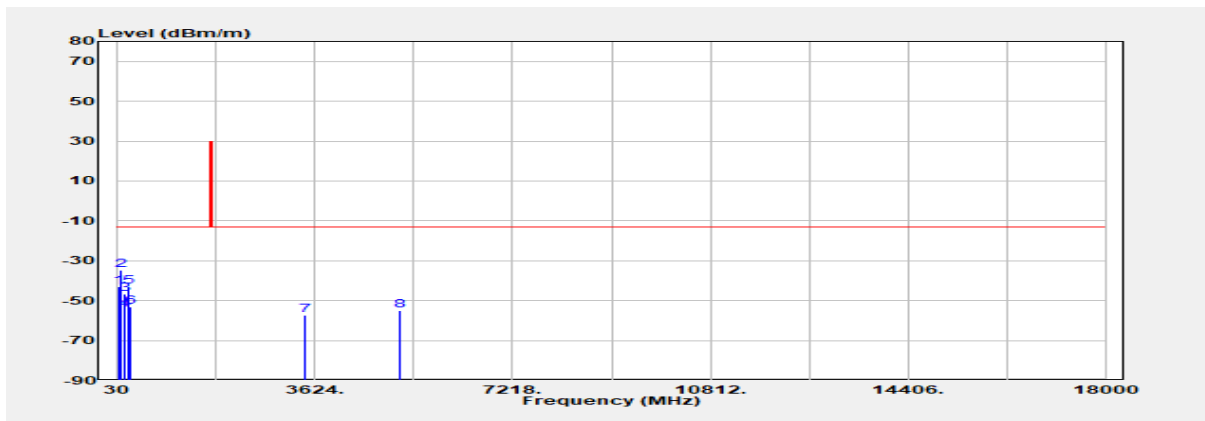
Temp./Humi. :24.2°C/52%

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :1720 MHz

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-43.04	-32.74	-9.34	-0.96	-13.00	-30.04
101.780	-34.78	-32.53	-0.99	-1.26	-13.00	-21.78
152.220	-46.49	-43.24	-1.70	-1.55	-13.00	-33.49
170.650	-54.51	-52.52	-0.34	-1.65	-13.00	-41.51
221.090	-42.98	-46.17	5.09	-1.90	-13.00	-29.98
242.430	-53.31	-55.32	3.97	-1.96	-13.00	-40.31
3440.000	-57.50	-62.62	12.52	-7.40	-13.00	-44.50
5160.000	-55.19	-58.50	12.46	-9.15	-13.00	-42.19

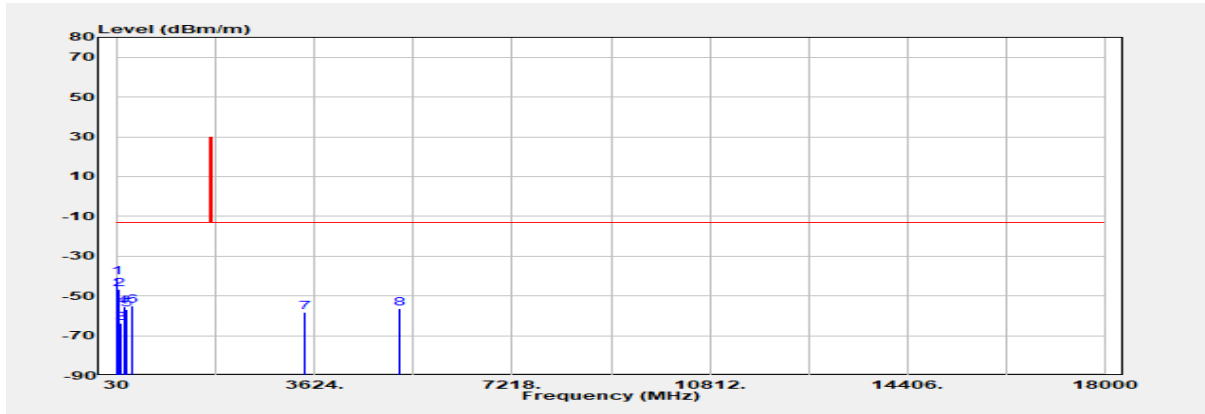
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Report Number :TERF2405001307E2
 Operation Mode :LTE B4
 Test Mode :Tx
 EUT Pol :E2 Plane
 Test Frequency :1720 MHz

Test Site :SAC C
 Test Date :2024-05-17
 Temp./Humi. :24.2°C/52%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-40.69	-26.07	-13.92	-0.70	-13.00	-27.69
50.370	-46.79	-34.35	-11.55	-0.89	-13.00	-33.79
92.080	-63.61	-61.84	-0.57	-1.20	-13.00	-50.61
137.670	-55.33	-52.21	-1.64	-1.48	-13.00	-42.33
188.110	-56.66	-57.62	2.68	-1.72	-13.00	-43.66
285.110	-54.91	-56.76	3.98	-2.13	-13.00	-41.91
3440.000	-58.32	-63.44	12.52	-7.40	-13.00	-45.32
5160.000	-56.20	-59.51	12.46	-9.15	-13.00	-43.20

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Report Number :TERF2405001307E2

Operation Mode :LTE B4

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :1732.5 MHz

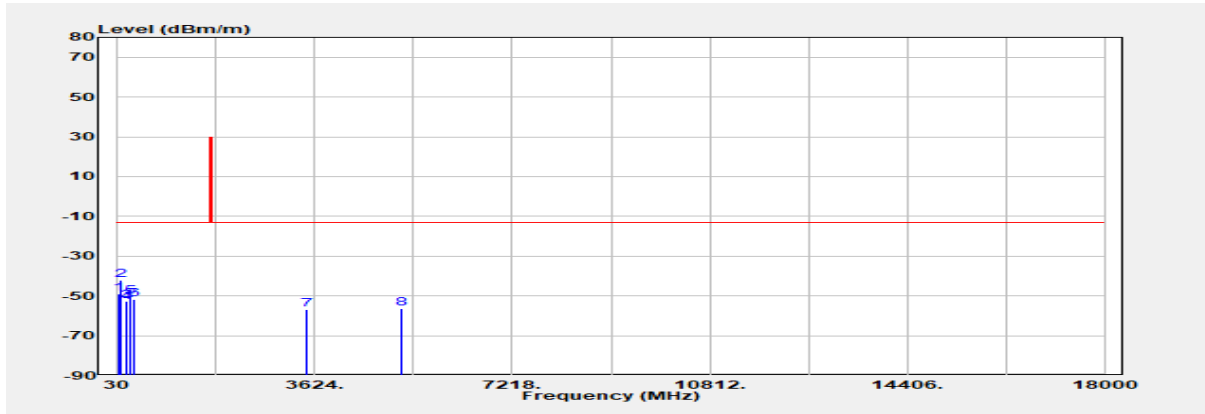
Test Site :SAC C

Test Date :2024-05-17

Temp./Humi. :24.2°C/52%

Antenna Pol. :Vertical

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.850	-49.10	-34.90	-13.46	-0.74	-13.00	-36.10
69.770	-41.87	-34.52	-6.29	-1.06	-13.00	-28.87
174.530	-52.64	-51.25	0.27	-1.66	-13.00	-39.64
203.630	-53.20	-55.56	4.16	-1.80	-13.00	-40.20
261.830	-50.17	-52.30	4.17	-2.04	-13.00	-37.17
319.060	-51.77	-53.60	4.07	-2.24	-13.00	-38.77
3465.000	-56.90	-61.90	12.44	-7.44	-13.00	-43.90
5197.500	-56.56	-60.02	12.69	-9.22	-13.00	-43.56

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Report Number :TERF2405001307E2

Operation Mode :LTE B4

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :1732.5 MHz

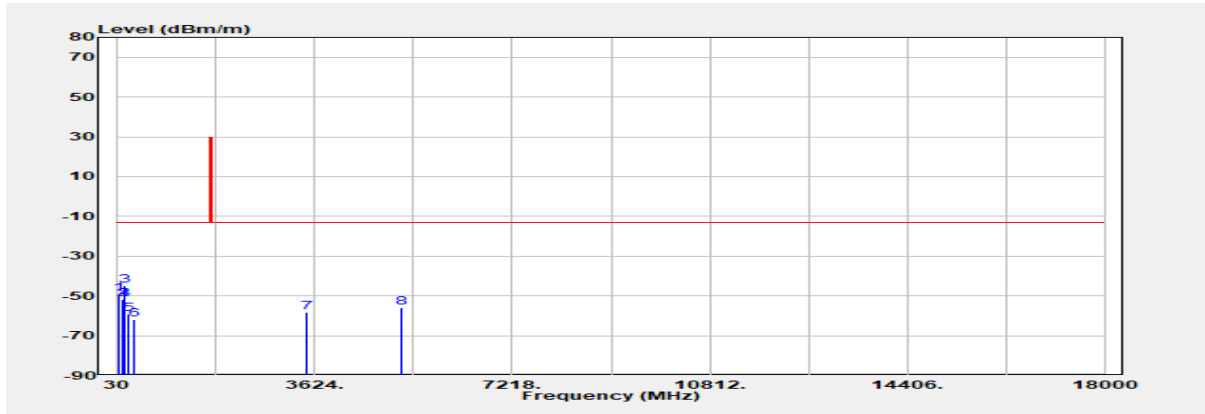
Test Site :SAC C

Test Date :2024-05-17

Temp./Humi. :24.2°C/52%

Antenna Pol. :Horizontal

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
38.730	-48.78	-34.99	-13.03	-0.76	-13.00	-35.78
130.880	-51.63	-48.69	-1.48	-1.46	-13.00	-38.63
139.610	-44.74	-41.49	-1.76	-1.49	-13.00	-31.74
162.890	-51.80	-49.12	-1.07	-1.61	-13.00	-38.80
220.120	-59.16	-62.30	5.04	-1.90	-13.00	-46.16
311.300	-61.84	-63.71	4.09	-2.22	-13.00	-48.84
3465.000	-58.06	-63.06	12.44	-7.44	-13.00	-45.06
5197.500	-56.11	-59.57	12.69	-9.22	-13.00	-43.11

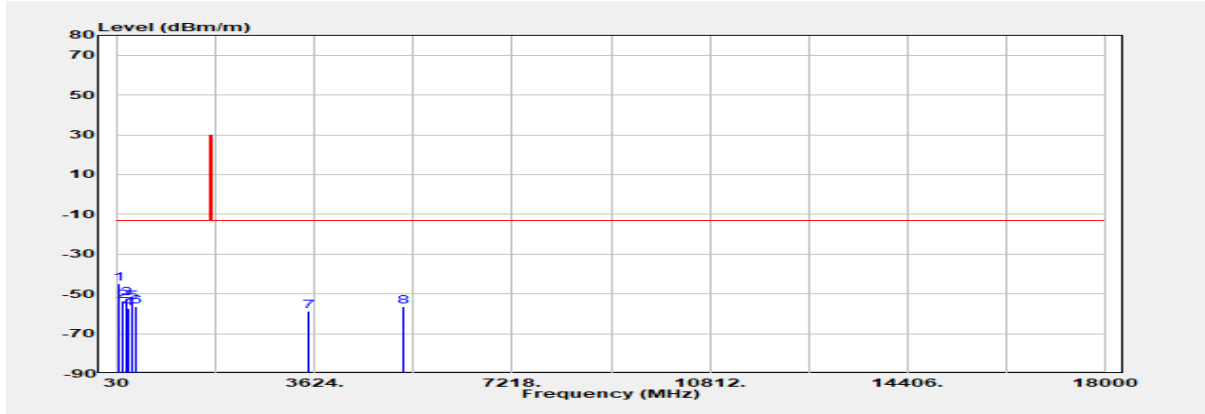
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Report Number :TERF2405001307E2
 Operation Mode :LTE B4
 Test Mode :Tx
 EUT Pol :E2 Plane
 Test Frequency :1745 MHz

Test Site :SAC C
 Test Date :2024-05-17
 Temp./Humi. :24.2°C/52%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.460	-44.63	-31.89	-11.88	-0.86	-13.00	-31.63
114.390	-53.70	-50.93	-1.41	-1.36	-13.00	-40.70
182.290	-52.38	-52.28	1.62	-1.72	-13.00	-39.38
221.090	-57.52	-60.71	5.09	-1.90	-13.00	-44.52
304.510	-54.20	-56.16	4.17	-2.21	-13.00	-41.20
353.010	-56.19	-58.31	4.47	-2.35	-13.00	-43.19
3490.000	-58.55	-63.40	12.34	-7.49	-13.00	-45.55
5235.000	-56.47	-60.21	12.98	-9.24	-13.00	-43.47

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Report Number :TERF2405001307E2

Operation Mode :LTE B4

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :1745 MHz

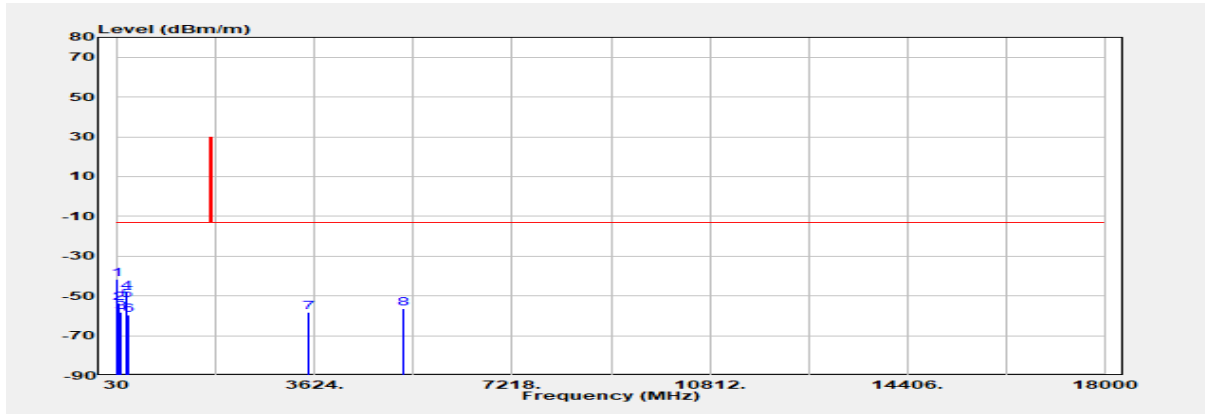
Test Site :SAC C

Test Date :2024-05-17

Temp./Humi. :24.2°C/52%

Antenna Pol. :Horizontal

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.910	-41.70	-27.68	-13.31	-0.71	-13.00	-28.70
43.580	-53.73	-40.53	-12.38	-0.82	-13.00	-40.73
83.350	-58.04	-55.03	-1.87	-1.14	-13.00	-45.04
179.380	-47.96	-47.30	1.04	-1.70	-13.00	-34.96
195.870	-52.11	-54.05	3.71	-1.77	-13.00	-39.11
226.910	-59.82	-63.08	5.16	-1.90	-13.00	-46.82
3490.000	-58.34	-63.19	12.34	-7.49	-13.00	-45.34
5235.000	-56.28	-60.02	12.98	-9.24	-13.00	-43.28

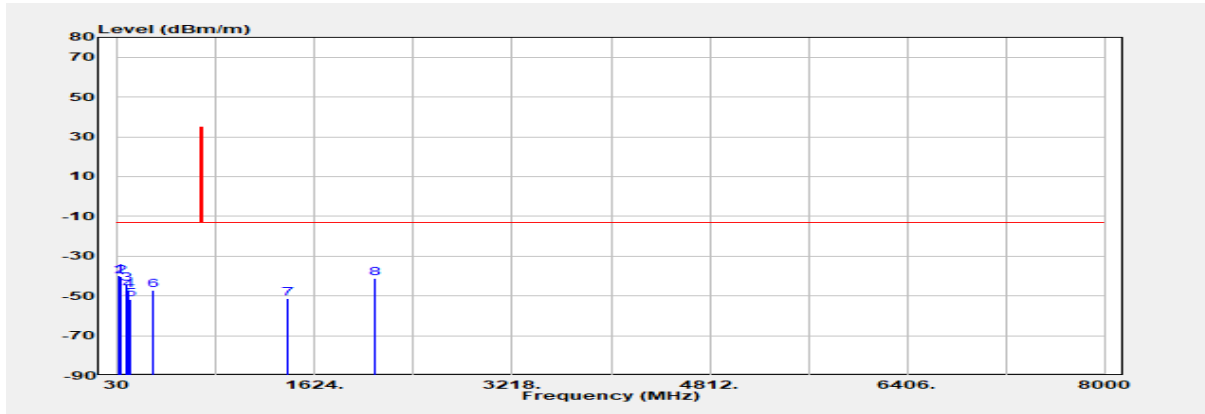
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Report Number :TERF2405001307E2
 Operation Mode :LTE B12
 Test Mode :Tx
 EUT Pol :E2 Plane
 Test Frequency :704 MHz

Test Site :SAC C
 Test Date :2024-05-17
 Temp./Humi. :24.2°C/52%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.700	-39.62	-25.79	-13.06	-0.77	-13.00	-26.62
59.100	-40.03	-29.58	-9.49	-0.96	-13.00	-27.03
99.840	-43.80	-41.82	-0.73	-1.25	-13.00	-30.80
119.240	-47.33	-44.69	-1.24	-1.40	-13.00	-34.33
138.640	-51.84	-48.55	-1.81	-1.48	-13.00	-38.84
312.270	-47.05	-48.91	4.08	-2.22	-13.00	-34.05
1408.000	-51.26	-54.29	7.70	-4.67	-13.00	-38.26
2112.000	-41.36	-45.42	9.80	-5.74	-13.00	-28.36

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Report Number :TERF2405001307E2

Operation Mode :LTE B12

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :704 MHz

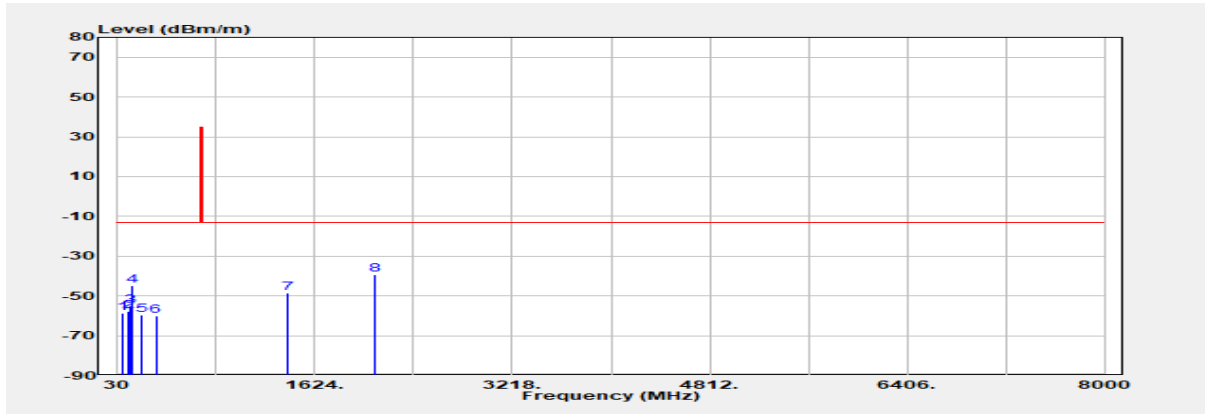
Test Site :SAC C

Test Date :2024-05-17

Temp./Humi. :24.2°C/52%

Antenna Pol. :Horizontal

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
63.950	-58.52	-49.40	-8.11	-1.01	-13.00	-45.52
114.390	-57.88	-55.11	-1.41	-1.36	-13.00	-44.88
137.670	-55.21	-52.09	-1.64	-1.48	-13.00	-42.21
144.460	-44.95	-41.49	-1.93	-1.53	-13.00	-31.95
226.910	-59.54	-62.80	5.16	-1.90	-13.00	-46.54
338.460	-60.05	-61.92	4.17	-2.30	-13.00	-47.05
1408.000	-48.36	-51.39	7.70	-4.67	-13.00	-35.36
2112.000	-39.54	-43.60	9.80	-5.74	-13.00	-26.54

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Report Number :TERF2405001307E2

Operation Mode :LTE B12

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :707.5 MHz

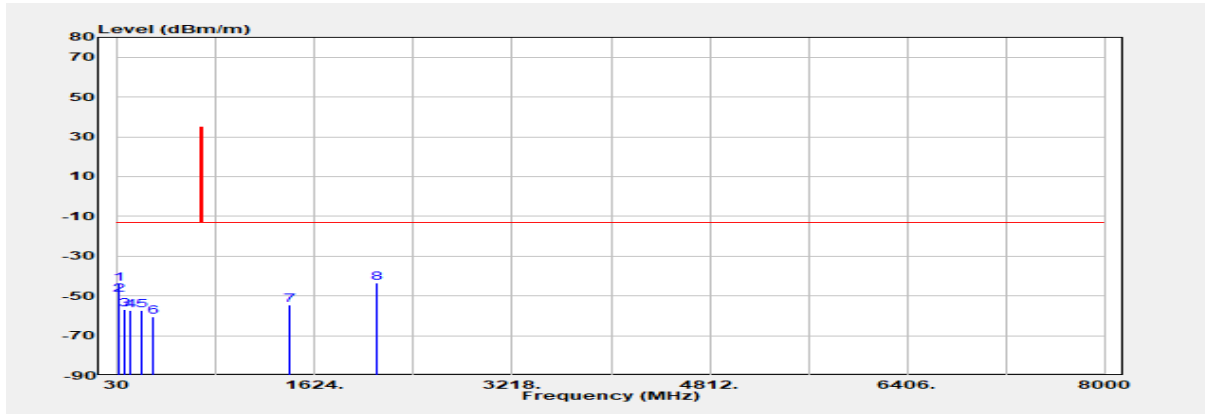
Test Site :SAC C

Test Date :2024-05-17

Temp./Humi. :24.2°C/52%

Antenna Pol. :Vertical

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.850	-44.13	-29.93	-13.46	-0.74	-13.00	-31.13
44.550	-49.33	-36.22	-12.28	-0.83	-13.00	-36.33
92.080	-57.00	-55.23	-0.57	-1.20	-13.00	-44.00
131.850	-57.24	-54.45	-1.33	-1.46	-13.00	-44.24
218.180	-57.28	-60.31	4.92	-1.89	-13.00	-44.28
317.120	-60.74	-62.57	4.06	-2.23	-13.00	-47.74
1415.000	-54.72	-57.73	7.70	-4.69	-13.00	-41.72
2122.500	-43.70	-47.76	9.83	-5.76	-13.00	-30.70

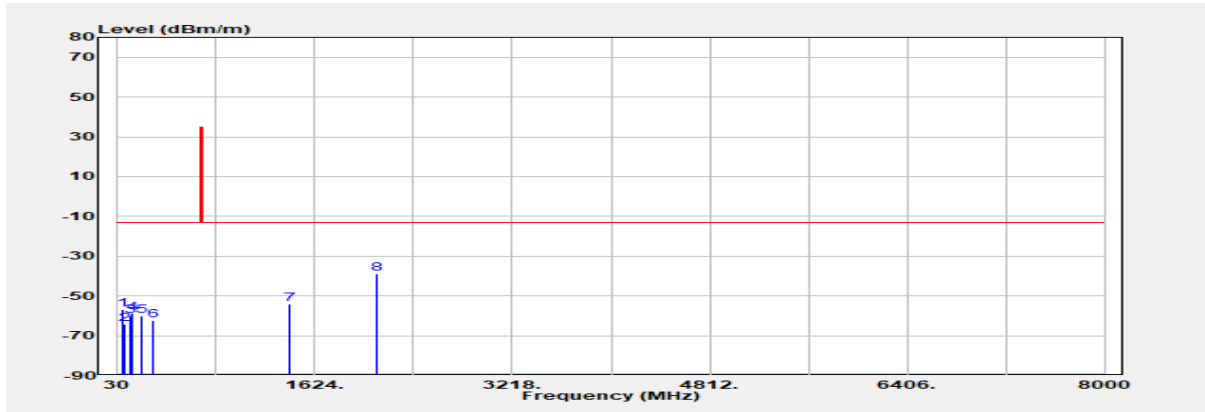
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Report Number :TERF2405001307E2
 Operation Mode :LTE B12
 Test Mode :Tx
 EUT Pol :E2 Plane
 Test Frequency :707.5 MHz

Test Site :SAC C
 Test Date :2024-05-17
 Temp./Humi. :24.2°C/52%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
67.830	-56.72	-48.69	-6.99	-1.04	-13.00	-43.72
91.110	-64.07	-62.24	-0.63	-1.20	-13.00	-51.07
130.880	-59.83	-56.89	-1.48	-1.46	-13.00	-46.83
153.190	-58.88	-55.86	-1.46	-1.56	-13.00	-45.88
225.940	-60.06	-63.41	5.24	-1.89	-13.00	-47.06
313.240	-62.53	-64.38	4.07	-2.22	-13.00	-49.53
1415.000	-54.08	-57.09	7.70	-4.69	-13.00	-41.08
2122.500	-39.01	-43.07	9.83	-5.76	-13.00	-26.01

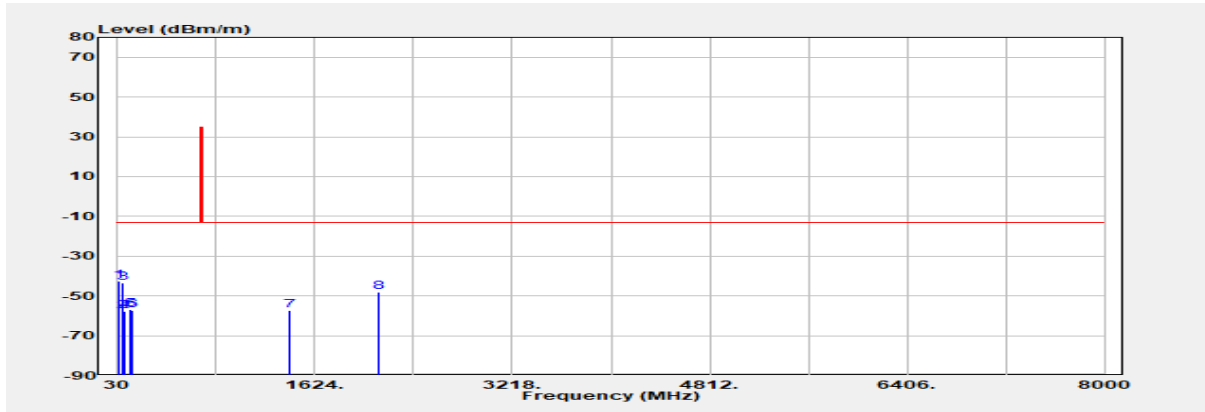
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Report Number :TERF2405001307E2
 Operation Mode :LTE B12
 Test Mode :Tx
 EUT Pol :E2 Plane
 Test Frequency :711 MHz

Test Site :SAC C
 Test Date :2024-05-17
 Temp./Humi. :24.2°C/52%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.760	-42.59	-28.65	-13.18	-0.76	-13.00	-29.59
65.890	-57.97	-49.65	-7.29	-1.03	-13.00	-44.97
71.710	-43.34	-36.43	-5.83	-1.08	-13.00	-30.34
92.080	-57.57	-55.80	-0.57	-1.20	-13.00	-44.57
130.880	-56.70	-53.76	-1.48	-1.46	-13.00	-43.70
145.430	-57.49	-54.11	-1.85	-1.53	-13.00	-44.49
1422.000	-57.28	-60.30	7.72	-4.70	-13.00	-44.28
2133.000	-47.92	-52.00	9.87	-5.79	-13.00	-34.92

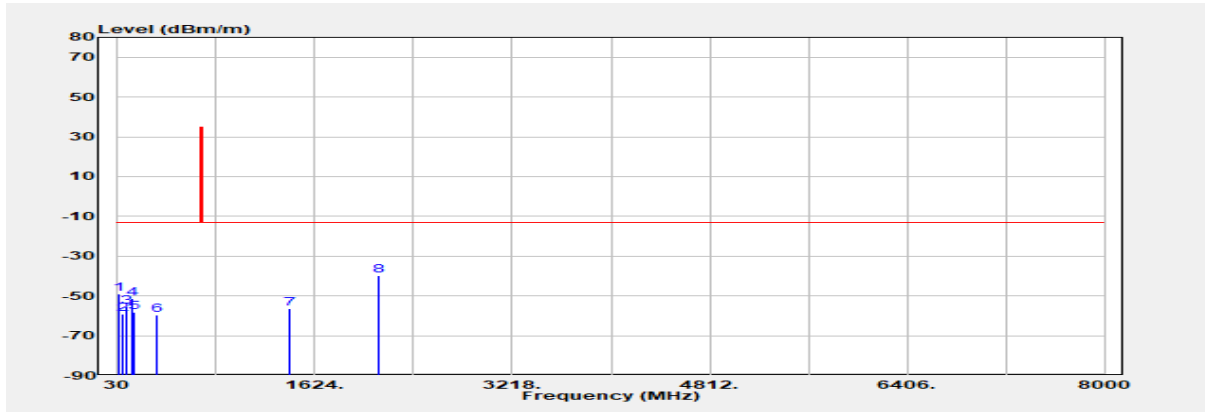
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Report Number :TERF2405001307E2
 Operation Mode :LTE B12
 Test Mode :Tx
 EUT Pol :E2 Plane
 Test Frequency :711 MHz

Test Site :SAC C
 Test Date :2024-05-17
 Temp./Humi. :24.2°C/52%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.850	-49.07	-34.87	-13.46	-0.74	-13.00	-36.07
69.770	-59.13	-51.78	-6.29	-1.06	-13.00	-46.13
95.960	-55.63	-53.65	-0.76	-1.22	-13.00	-42.63
150.280	-51.23	-47.92	-1.78	-1.53	-13.00	-38.23
159.010	-57.99	-55.11	-1.29	-1.59	-13.00	-44.99
341.370	-59.45	-61.39	4.25	-2.31	-13.00	-46.45
1422.000	-56.54	-59.56	7.72	-4.70	-13.00	-43.54
2133.000	-39.91	-43.99	9.87	-5.79	-13.00	-26.91

~ End of Report ~

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