



TESTREPORT

Applicant Name : Franklin Technology Inc.
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South Korea
Report Number: RA221101-50847E-RF-00C
FCC ID: XHG-RG2102

Test Standard (s)

FCC PART 27; FCC PART 22H; FCC PART 24E; FCC PART 90

Sample Description

Product Type: Mobile Hotspot
Model No.: RG2102
Multiple Model(s) No.: N/A
Trade Mark: N/A
Date Received: 2022/11/01
Report Date: 2023/01/31

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Approved By:

Andy Yu
EMC Engineer

Candy Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	RA221101-50847E-RF-00C	Original Report	2022/12/29
1	RA221101-50847E-RF-00C	Updated the summary table	2023/01/31

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	WCDMA Band 2: 1850-1910MHz(TX); 1930-1990MHz(RX) WCDMA Band 5: 824-849MHz(TX); 869-894MHz(RX) LTE Band 2: 1850-1910MHz(TX); 1930-1990MHz(RX) LTE Band 4: 1710-1755MHz(TX); 2110-2155MHz(RX) LTE Band 5: 824-849MHz(TX); 869-894MHz(RX) LTE Band 7: 2500-2570MHz(TX); 2620-2690MHz(RX) LTE Band 12: 699-716MHz(TX); 729-746MHz(RX) LTE Band 14: 788-798MHz(TX); 758-768MHz(RX) LTE Band 30: 2305-2315MHz(TX); 2350-2360MHz(RX) LTE Band 66: 1710-1780MHz(TX); 2110-2180MHz(RX)
Modulation Technique	3G: BPSK, QPSK, 16QAM, 64QAM 4G: QPSK, 16QAM
Antenna Specification*	WCDMA Band5/ LTE Band 5: -0.66dBi WCDMA Band 2/ LTE Band 2: -1.66dBi LTE Band 4/66: -1.56dBi LTE Band 7: -2.99dBi LTE Band 12: -1.43dBi LTE Band 14: -0.93dBi LTE Band 30: -2.39dBi (provided by the applicant)
Voltage Range	DC 3.8V from battery or DC 5V from adapter
Sample serial number	1OJ3-1 for Radiated Emissions 1OJ4-2 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter Information	Model: PD018W-G Input: 100-240V,50/60Hz,0.5A Max Output: 5.0V,3.0A;9.0V,2.0A;12V,1.5A

Objective

This test report is in accordance with Part 2-Subpart J, Part 22-Subpart H, Part 24-Subpart E, Part 27 and Part 90 of the Federal Communication Commission's rules.

The objective is to determine the compliance of the EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability and band edge.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2-Subpart J as well as the following parts:

Part 22 Subpart H - Public Mobile Services
 Part 24 Subpart E - Personal Communication Services
 Part 27 - Miscellaneous Wireless Communications Services
 Part 90 Private Land Mobile Radio Services

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5%
RF Frequency		0.082×10^{-7}
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
AC Power Lines Conducted Emissions		2.72dB
Emissions, Radiated	9kHz - 30MHz	2.66dB
	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
	18GHz -26.5GHz	5.06dB
	26.5GHz -40GHz	4.72dB
Temperature		1°C
Humidity		6%
Supply voltages		0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The final qualification test was performed with the EUT operating at normal mode.

Frequency band	Bandwidth (MHz)	Test Frequency(MHz)		
		Low	Middle	High
WCDMA B2	4.2	1852.4	1880	1907.6
WCDMA B5	4.2	826.4	836.6	846.6
LTE B2	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
	5	1852.5	1880	1907.5
	10	1855	1880	1905
	15	1857.5	1880	1902.5
	20	1860	1880	1900
LTE B4	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5
	5	1712.5	1732.5	1752.5
	10	1715	1732.5	1750
	15	1717.5	1732.5	1747.5
	20	1720	1732.5	1745
LTE B5	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829	836.5	844
LTE B7	5	2502.5	2535	2567.5
	10	2505	2535	2565
	15	2507.5	2535	2562.5
	20	2510	2535	2560
LTE B12	1.4	699.7	707.5	715.3
	3	700.5	707.5	714.5
	5	701.5	707.5	713.5
	10	704.0	707.5	711
LTE B14	5	790.5	793	795.5
	10	/	793	/
LTE B30	5	2307.5	2310	2312.5
	10	/	2310	/
LTE B66	1.4	1710.7	1745	1779.3
	3	1711.5	1745	1778.5
	5	1712.5	1745	1777.5
	10	1715	1745	1775
	15	1717.5	1745	1772.5
	20	1720	1745	1770

Equipment Modifications

No modification was made to the EUT.

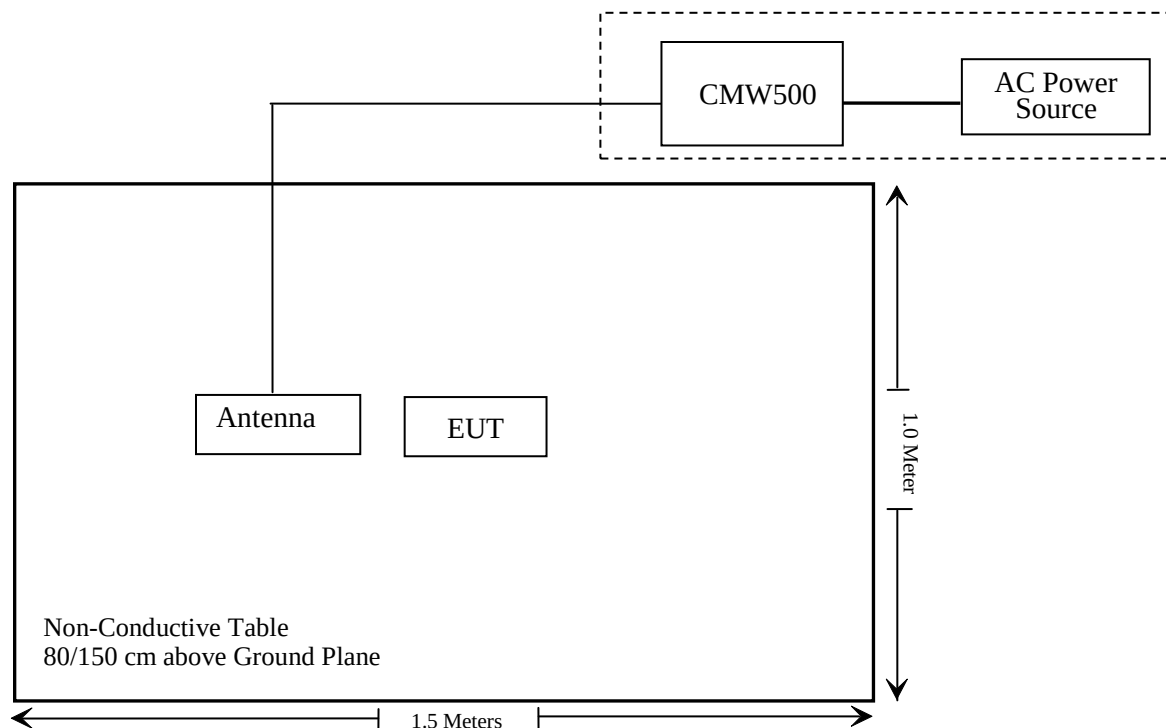
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	154606

Support Cable Description

Cable Description	Length (m)	From / Port	To
Unshielded Un-detachable AC cable	1.2	AC Power	CMW50

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result	Remark
§ 1.1310 , §2.1093	RF Exposure (SAR)	Compliant	-
§2.1046; § 22.913 (a) (d); § 24.232 (c)(d); §27.50 (a)(c) (d)(h); §90.542	RF Output Power	Reporting only	-
§ 2.1047	Modulation Characteristics	Not Applicable	-
§ 2.1049; § 22.905; § 22.917; § 24.238; §27.53; §90.209	Occupied Bandwidth	-	See Note
§ 2.1051; §22.917 (a); § 24.238 (a); §27.53; §90.543	Spurious Emissions at Antenna Terminal	-	See Note
§ 2.1053; § 22.917 (a); § 24.238 (a); §27.53; §90.543	Field Strength of Spurious Radiation	Compliant	-
§ 22.917 (a); § 24.238 (a); §27.53; §90.543	Band Edge	-	See Note
§ 2.1055; § 22.355; § 24.235; §27.54; §90.539	Frequency stability	-	See Note

Note:

- 1: The manufacturer declared the WWAN module installed in EUT is identical to the certified module (FCC ID: XHG-M2500), which granted on 08/30/2022 and 01/09/2023.
- 2: The RF output power was spot checked and it's consistently with the module report.
- 3: The ATC is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
Rohde& Schwarz	Test Receiver	ESR	102725	2022/11/25	2023/11/24
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2022/11/25	2023/11/24
SONOMA INSTRUMENT	Amplifier	310 N	186131	2022/11/08	2023/11/07
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2022/11/08	2023/11/07
Quinstar	Amplifier	QLW-184055 36-J0	15964001002	2022/11/08	2023/11/07
Unknown	RF Coaxial Cable	No.10	N050	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.11	N1000	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.12	N040	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.13	N300	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.14	N800	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.15	N600	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.16	N650	2022/11/25	2023/11/24
Schwarzbeck	Bilog Antenna	VULB9163	9163-194	2020/01/05	2023/01/04
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-655	2020/01/05	2023/01/04
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
PASTERNAK	Horn Antenna	PE9852/2F-20	1120 (ATC-BA-024-1)	2020/01/05	2023/01/04
PASTERNAK	Horn Antenna	PE9852/2F-20	1120 (ATC-BA-025-1)	2020/01/05	2023/01/04
Unknown	RFCoaxialCable	No.16	N200	2022/11/25	2023/11/24
Agilent	Signal Generator	N5183A	MY51040755	2022/11/25	2023/11/24

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
WEINSCHTEL	10dB Attenuator	5324	AU 3842	2022/11/25	2023/11/24
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	154606	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.31	RF-01	Each time	

* Statement of Traceability: Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1310& §2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliant, please refer to the SAR report: RA221101-50847E-SA.

FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H,24E&27&90 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

FCC § 2.1046, §22.913 (a) (d)& §24.232 (c) (d); §27.50(a)(c)(d)(h); §90.542- RF OUTPUT POWER

Applicable Standard

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC §2.1046 and §24.232 (c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

According to §27.50(a), For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

According to §27.50(c), Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP. And Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

According to §27.50(d), Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

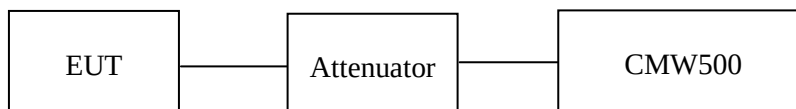
According to §27.50(h), the maximum EIRP must not exceed 2Watts (33dBm) for 2496-2690MHz.

According to §90.542, Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

Test Procedure

Conducted method:

The RF output of the transmitter was connected to the CMW500 through sufficient attenuation.



ANSI C63.26-2015 Section 5.5.

Test Data**Environmental Conditions**

Temperature:	22~27 °C
Relative Humidity:	46~54 %
ATM Pressure:	100.8~101.0 kPa

The testing was performed by Cat Kang from 2022-12-07 to 2022-12-09.

Conducted Power**Cellular Band (Part 22H)**

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
WCDMA (Band 5)	RMC12.2k		23.63	23.93	23.95	20.82	21.12	21.14
	HSDPA	1	20.98	21.05	21.09	18.17	18.24	18.28
		2	21.09	21.04	21.03	18.28	18.23	18.22
		3	21.01	20.86	20.97	18.20	18.05	18.16
		4	20.99	20.95	20.82	18.18	18.14	18.01
	HSUPA	1	22.63	22.25	22.18	19.82	19.44	19.37
		2	22.68	21.97	22.18	19.87	19.16	19.37
		3	22.63	22.14	22.05	19.82	19.33	19.24
		4	22.73	22.13	22.08	19.92	19.32	19.27
		5	22.80	22.08	22.00	19.99	19.27	19.19
	HSPA+	1	22.76	22.06	21.77	19.95	19.25	18.96

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain

For WCDMA Band5: Antenna Gain = -0.66dBi = -2.81dBd (0dBd=2.15dBi)

Limit: ERP≤38.45dBm

PCS Band (Part 24E)

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
WCDMA (Band 2)	RMC12.2k		22.43	22.63	22.41	20.77	20.97	20.75
	HSDPA	1	19.75	19.81	19.87	18.09	18.15	18.21
		2	19.95	19.84	19.84	18.29	18.18	18.18
		3	19.88	19.65	19.72	18.22	17.99	18.06
		4	19.80	19.72	19.68	18.14	18.06	18.02
	HSUPA	1	21.43	21.08	20.96	19.77	19.42	19.30
		2	21.47	20.78	20.97	19.81	19.12	19.31
		3	21.41	20.93	20.83	19.75	19.27	19.17
		4	21.49	20.93	20.89	19.83	19.27	19.23
		5	21.65	20.96	20.82	19.99	19.30	19.16
	HSPA+	1	21.54	20.87	20.57	19.88	19.21	18.91

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

For PCS1900 / WCDMA Band2: Antenna Gain = -1.66 dBi

Limit: EIRP ≤ 33dBm

LTE Band 2

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	21.47	21.2	21.56	19.81	19.54	19.90
		RB1#3	21.46	21.13	21.59	19.80	19.47	19.93
		RB1#5	21.39	21.01	21.49	19.73	19.35	19.83
		RB3#0	21.49	21.08	21.52	19.83	19.42	19.86
		RB3#3	21.43	21.1	21.49	19.77	19.44	19.83
		RB6#0	20.46	20.08	20.53	18.80	18.42	18.87
	16QAM	RB1#0	20.62	20.36	20.79	18.96	18.70	19.13
		RB1#3	20.62	20.36	20.76	18.96	18.70	19.10
		RB1#5	20.61	20.35	20.62	18.95	18.69	18.96
		RB3#0	20.63	20.15	20.73	18.97	18.49	19.07
		RB3#3	20.55	20.07	20.64	18.89	18.41	18.98
		RB6#0	19.4	19.13	19.59	17.74	17.47	17.93
3.0	QPSK	RB1#0	21.46	21.16	21.58	19.80	19.50	19.92
		RB1#8	21.43	21.13	21.54	19.77	19.47	19.88
		RB1#14	21.3	20.98	21.45	19.64	19.32	19.79
		RB6#0	20.53	20.13	20.55	18.87	18.47	18.89
		RB6#9	20.42	20.03	20.5	18.76	18.37	18.84
		RB15#0	20.51	20.07	20.5	18.85	18.41	18.84
	16QAM	RB1#0	20.7	20.26	20.68	19.04	18.60	19.02
		RB1#8	20.83	20.35	20.88	19.17	18.69	19.22
		RB1#14	20.55	20.15	20.73	18.89	18.49	19.07
		RB6#0	19.6	19.09	19.45	17.94	17.43	17.79
		RB6#9	19.48	19.11	19.46	17.82	17.45	17.80
		RB15#0	19.52	19.12	19.48	17.86	17.46	17.82

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	21.54	21.18	21.6	19.88	19.52	19.94
		RB1#13	21.63	21.21	21.6	19.97	19.55	19.94
		RB1#24	21.37	21.08	21.57	19.71	19.42	19.91
		RB15#0	20.56	20.08	20.55	18.90	18.42	18.89
		RB15#10	20.46	20.09	20.55	18.80	18.43	18.89
		RB25#0	20.49	20.12	20.5	18.83	18.46	18.84
	16QAM	RB1#0	20.68	20.28	20.74	19.02	18.62	19.08
		RB1#13	20.77	20.4	20.72	19.11	18.74	19.06
		RB1#24	20.58	20.24	20.7	18.92	18.58	19.04
		RB15#0	19.59	19.12	19.55	17.93	17.46	17.89
		RB15#10	19.5	19.07	19.55	17.84	17.41	17.89
		RB25#0	19.5	19.17	19.55	17.84	17.51	17.89
10.0	QPSK	RB1#0	21.5	21.17	21.51	19.84	19.51	19.85
		RB1#25	21.46	21.19	21.51	19.80	19.53	19.85
		RB1#49	21.34	21.14	21.47	19.68	19.48	19.81
		RB25#0	20.42	20.06	20.51	18.76	18.40	18.85
		RB25#25	20.42	20.07	20.56	18.76	18.41	18.90
		RB50#0	20.46	20.15	20.51	18.80	18.49	18.85
	16QAM	RB1#0	20.69	20.25	20.62	19.03	18.59	18.96
		RB1#25	20.63	20.39	20.7	18.97	18.73	19.04
		RB1#49	20.53	20.2	20.75	18.87	18.54	19.09
		RB25#0	19.48	19.19	19.6	17.82	17.53	17.94
		RB25#25	19.42	19.14	19.62	17.76	17.48	17.96
		RB50#0	19.46	19.17	19.5	17.80	17.51	17.84

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	21.34	21.03	21.24	19.68	19.37	19.58
		RB1#38	21.22	20.95	21.37	19.56	19.29	19.71
		RB1#74	21.13	20.99	21.44	19.47	19.33	19.78
		RB36#0	20.33	20.04	20.32	18.67	18.38	18.66
		RB36#39	20.28	20.06	20.44	18.62	18.40	18.78
		RB75#0	20.36	20.07	20.29	18.70	18.41	18.63
	16QAM	RB1#0	20.56	20.35	20.3	18.90	18.69	18.64
		RB1#38	20.4	20.15	20.63	18.74	18.49	18.97
		RB1#74	20.43	20.12	20.68	18.77	18.46	19.02
		RB36#0	19.38	19.05	19.32	17.72	17.39	17.66
		RB36#39	19.35	19.07	19.48	17.69	17.41	17.82
		RB75#0	19.37	19.08	19.36	17.71	17.42	17.70
20.0	QPSK	RB1#0	21.51	21.14	21.08	19.85	19.48	19.42
		RB1#50	21.3	20.9	21.3	19.64	19.24	19.64
		RB1#99	21.1	21.15	21.24	19.44	19.49	19.58
		RB50#0	20.35	20.08	20.25	18.69	18.42	18.59
		RB50#50	20.26	20.1	20.35	18.60	18.44	18.69
		RB100#0	20.37	20.12	20.28	18.71	18.46	18.62
	16QAM	RB1#0	20.52	20.23	20.11	18.86	18.57	18.45
		RB1#50	20.48	20.22	20.33	18.82	18.56	18.67
		RB1#99	20.2	20.23	20.56	18.54	18.57	18.90
		RB50#0	19.37	19.11	19.26	17.71	17.45	17.60
		RB50#50	19.28	19.12	19.39	17.62	17.46	17.73
		RB100#0	19.37	19.13	19.32	17.71	17.47	17.66

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi) - Cable Loss(dB)

For Band2: Antenna Gain = -1.66dBi

Limit: EIRP ≤ 33dBm

LTE Band 4

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	22.47	22.08	21.63	20.81	20.42	19.97
		RB1#3	22.52	22.08	21.7	20.86	20.42	20.04
		RB1#5	22.56	22.07	21.63	20.90	20.41	19.97
		RB3#0	22.49	22.05	21.72	20.83	20.39	20.06
		RB3#3	22.47	22.05	21.67	20.81	20.39	20.01
		RB6#0	21.47	21.05	20.69	19.81	19.39	19.03
	16QAM	RB1#0	21.64	21.27	20.79	19.98	19.61	19.13
		RB1#3	21.7	21.37	20.83	20.04	19.71	19.17
		RB1#5	21.69	21.26	20.74	20.03	19.60	19.08
		RB3#0	21.4	21.27	20.82	19.74	19.61	19.16
		RB3#3	21.44	21.17	20.75	19.78	19.51	19.09
		RB6#0	20.5	19.99	19.75	18.84	18.33	18.09
3.0	QPSK	RB1#0	22.42	22.11	21.68	20.76	20.45	20.02
		RB1#8	22.55	22.17	21.79	20.89	20.51	20.13
		RB1#14	22.47	22.02	21.59	20.81	20.36	19.93
		RB6#0	21.55	21.05	20.66	19.89	19.39	19.00
		RB6#9	21.48	21.09	20.73	19.82	19.43	19.07
		RB15#0	21.49	21.1	20.75	19.83	19.44	19.09
	16QAM	RB1#0	21.71	21.27	20.84	20.05	19.61	19.18
		RB1#8	21.77	21.31	21.04	20.11	19.65	19.38
		RB1#14	21.68	21.23	20.87	20.02	19.57	19.21
		RB6#0	20.53	19.97	19.78	18.87	18.31	18.12
		RB6#9	20.57	20.05	19.84	18.91	18.39	18.18
		RB15#0	20.52	20.14	19.77	18.86	18.48	18.11

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.57	22.17	21.77	20.91	20.51	20.11
		RB1#13	22.59	22.31	21.86	20.93	20.65	20.20
		RB1#24	22.56	22.08	21.8	20.90	20.42	20.14
		RB15#0	21.54	21.11	20.69	19.88	19.45	19.03
		RB15#10	21.51	21.1	20.76	19.85	19.44	19.10
		RB25#0	21.54	21.14	20.75	19.88	19.48	19.09
	16QAM	RB1#0	21.82	21.36	20.91	20.16	19.70	19.25
		RB1#13	21.83	21.29	21.06	20.17	19.63	19.40
		RB1#24	21.69	21.25	21.00	20.03	19.59	19.34
		RB15#0	20.61	20.08	19.72	18.95	18.42	18.06
		RB15#10	20.55	20.1	19.75	18.89	18.44	18.09
		RB25#0	20.57	20.17	19.83	18.91	18.51	18.17
10.0	QPSK	RB1#0	22.49	22.26	21.84	20.83	20.60	20.18
		RB1#25	22.48	22.18	21.82	20.82	20.52	20.16
		RB1#49	22.42	21.98	21.71	20.76	20.32	20.05
		RB25#0	21.44	21.18	20.77	19.78	19.52	19.11
		RB25#25	21.5	21.06	20.77	19.84	19.40	19.11
		RB50#0	21.51	21.16	20.84	19.85	19.50	19.18
	16QAM	RB1#0	21.57	21.43	20.99	19.91	19.77	19.33
		RB1#25	21.58	21.25	20.91	19.92	19.59	19.25
		RB1#49	21.43	21.16	20.85	19.77	19.50	19.19
		RB25#0	20.49	20.13	19.78	18.83	18.47	18.12
		RB25#25	20.48	20.09	19.73	18.82	18.43	18.07
		RB50#0	20.53	20.12	19.78	18.87	18.46	18.12

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	22.32	22.14	21.93	20.66	20.48	20.27
		RB1#38	22.27	21.95	21.84	20.61	20.29	20.18
		RB1#74	22.09	21.67	21.66	20.43	20.01	20.00
		RB36#0	21.36	21.08	20.73	19.70	19.42	19.07
		RB36#39	21.31	20.95	20.67	19.65	19.29	19.01
		RB75#0	21.37	21.05	20.73	19.71	19.39	19.07
	16QAM	RB1#0	21.67	21.52	21.12	20.01	19.86	19.46
		RB1#38	21.31	21.15	20.91	19.65	19.49	19.25
		RB1#74	21.32	21.02	20.77	19.66	19.36	19.11
		RB36#0	20.4	20.11	19.75	18.74	18.45	18.09
		RB36#39	20.32	19.97	19.67	18.66	18.31	18.01
		RB75#0	20.41	20.07	19.75	18.75	18.41	18.09
20.0	QPSK	RB1#0	22.4	22.19	22.07	20.74	20.53	20.41
		RB1#50	22.25	21.93	21.69	20.59	20.27	20.03
		RB1#99	22.02	21.69	21.66	20.36	20.03	20.00
		RB50#0	21.4	21.13	20.86	19.74	19.47	19.20
		RB50#50	21.3	20.92	20.72	19.64	19.26	19.06
		RB100#0	21.39	21.1	20.76	19.73	19.44	19.10
	16QAM	RB1#0	21.74	21.27	21.09	20.08	19.61	19.43
		RB1#50	21.84	21.26	20.92	20.18	19.60	19.26
		RB1#99	21.18	20.82	20.68	19.52	19.16	19.02
		RB50#0	20.42	20.16	19.88	18.76	18.50	18.22
		RB50#50	20.29	19.94	19.72	18.63	18.28	18.06
		RB100#0	20.36	20.09	19.79	18.70	18.43	18.13

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi) - Cable Loss(dB)

For Band4: Antenna Gain = -1.56dBi

Cable Loss=0dB*(provided by the applicant)

Limit: EIRP ≤ 30dBm

LTE Band 5:

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	22.64	22.57	22.42	19.83	19.76	19.61
		RB1#3	22.64	22.55	22.44	19.83	19.74	19.63
		RB1#5	22.64	22.54	22.4	19.83	19.73	19.59
		RB3#0	22.61	22.5	22.41	19.80	19.69	19.60
		RB3#3	22.64	22.5	22.42	19.83	19.69	19.61
		RB6#0	21.59	21.5	21.43	18.78	18.69	18.62
	16QAM	RB1#0	21.89	21.62	21.61	19.08	18.81	18.80
		RB1#3	21.93	21.66	21.6	19.12	18.85	18.79
		RB1#5	21.91	21.58	21.58	19.10	18.77	18.77
		RB3#0	21.72	21.56	21.44	18.91	18.75	18.63
		RB3#3	21.76	21.56	21.49	18.95	18.75	18.68
		RB6#0	20.73	20.56	20.5	17.92	17.75	17.69
3.0	QPSK	RB1#0	21.63	22.5	22.47	18.82	19.69	19.66
		RB1#8	22.65	22.53	22.42	19.84	19.72	19.61
		RB1#14	22.58	22.48	22.47	19.77	19.67	19.66
		RB6#0	21.6	21.46	21.39	18.79	18.65	18.58
		RB6#9	21.61	21.55	21.43	18.80	18.74	18.62
		RB15#0	21.68	21.56	21.34	18.87	18.75	18.53
	16QAM	RB1#0	21.87	21.46	21.61	19.06	18.65	18.80
		RB1#8	21.84	21.78	21.69	19.03	18.97	18.88
		RB1#14	21.83	21.7	21.53	19.02	18.89	18.72
		RB6#0	20.51	20.41	20.47	17.70	17.60	17.66
		RB6#9	20.79	20.44	20.51	17.98	17.63	17.70
		RB15#0	20.7	20.55	20.36	17.89	17.74	17.55

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.81	22.52	22.48	20.00	19.71	19.67
		RB1#13	22.65	22.57	22.48	19.84	19.76	19.67
		RB1#24	22.61	22.64	22.43	19.80	19.83	19.62
		RB15#0	21.57	21.46	21.36	18.76	18.65	18.55
		RB15#10	21.6	21.54	21.41	18.79	18.73	18.60
		RB25#0	21.65	21.56	21.44	18.84	18.75	18.63
	16QAM	RB1#0	21.9	21.74	21.64	19.09	18.93	18.83
		RB1#13	21.89	21.65	21.69	19.08	18.84	18.88
		RB1#24	21.81	21.73	21.56	19.00	18.92	18.75
		RB15#0	20.62	20.46	20.41	17.81	17.65	17.60
		RB15#10	20.63	20.52	20.41	17.82	17.71	17.60
		RB25#0	20.68	20.53	20.49	17.87	17.72	17.68
10.0	QPSK	RB1#0	22.66	22.5	22.57	19.85	19.69	19.76
		RB1#25	22.56	22.52	22.53	19.75	19.71	19.72
		RB1#49	22.48	22.45	22.38	19.67	19.64	19.57
		RB25#0	21.59	21.52	21.52	18.78	18.71	18.71
		RB25#25	21.6	21.53	21.47	18.79	18.72	18.66
		RB50#0	21.6	21.56	21.43	18.79	18.75	18.62
	16QAM	RB1#0	21.78	21.64	21.65	18.97	18.83	18.84
		RB1#25	21.61	21.76	21.57	18.80	18.95	18.76
		RB1#49	21.64	21.74	21.51	18.83	18.93	18.70
		RB25#0	20.63	20.53	20.54	17.82	17.72	17.73
		RB25#25	20.6	20.62	20.5	17.79	17.81	17.69
		RB50#0	20.62	20.55	20.49	17.81	17.74	17.68

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)
 For Band5: Antenna Gain = -0.66dBi = -2.81dBd (0dBd=2.15dBi)
 Limit: ERP ≤ 38.45dBm

LTE Band 7

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	23.22	23.01	23.70	20.23	20.02	20.71
		RB1#12	23.32	23.10	23.89	20.33	20.11	20.90
		RB1#24	23.28	23.12	23.83	20.29	20.13	20.84
		RB12#0	22.19	21.97	22.60	19.20	18.98	19.61
		RB12#6	22.24	22.09	22.79	19.25	19.10	19.80
		RB12#11	22.22	22.07	22.70	19.23	19.08	19.71
		RB25#0	22.29	22.19	22.85	19.30	19.20	19.86
	16QAM	RB1#0	22.36	22.29	23.01	19.37	19.30	20.02
		RB1#12	22.26	22.35	23.01	19.27	19.36	20.02
		RB1#24	21.21	20.98	21.62	18.22	17.99	18.63
		RB12#0	21.29	21.11	21.78	18.30	18.12	18.79
		RB12#6	21.25	21.08	21.73	18.26	18.09	18.74
		RB12#11	23.22	23.01	23.70	20.23	20.02	20.71
		RB25#0	23.32	23.10	23.89	20.33	20.11	20.90
10.0	QPSK	RB1#0	23.19	22.99	23.54	20.20	20.00	20.55
		RB1#24	23.21	23.04	23.77	20.22	20.05	20.78
		RB1#49	23.15	23.12	23.84	20.16	20.13	20.85
		RB25#0	22.19	21.95	22.57	19.20	18.96	19.58
		RB25#12	22.15	22.08	22.75	19.16	19.09	19.76
		RB25#24	22.23	22.09	22.58	19.24	19.10	19.59
		RB50#0	22.30	22.17	22.55	19.31	19.18	19.56
	16QAM	RB1#0	22.38	22.26	23.00	19.39	19.27	20.01
		RB1#24	22.24	22.29	23.02	19.25	19.30	20.03
		RB1#49	21.13	21.00	21.51	18.14	18.01	18.52
		RB25#0	21.17	21.15	21.75	18.18	18.16	18.76
		RB25#12	21.21	21.10	21.59	18.22	18.11	18.60
		RB25#24	23.19	22.99	23.54	20.20	20.00	20.55
		RB50#0	23.21	23.04	23.77	20.22	20.05	20.78

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	22.97	22.82	23.19	19.98	19.83	20.20
		RB1#37	22.91	22.87	23.38	19.92	19.88	20.39
		RB1#74	22.82	22.93	23.44	19.83	19.94	20.45
		RB36#0	21.98	21.88	22.28	18.99	18.89	19.29
		RB36#18	21.98	21.99	22.52	18.99	19.00	19.53
		RB36#37	22.05	21.96	22.48	19.06	18.97	19.49
		RB75#0	22.21	21.85	22.38	19.22	18.86	19.39
	16QAM	RB1#0	22.10	21.97	22.59	19.11	18.98	19.60
		RB1#37	22.01	22.15	22.70	19.02	19.16	19.71
		RB1#74	21.02	20.86	21.33	18.03	17.87	18.34
		RB36#0	20.99	21.03	21.52	18.00	18.04	18.53
		RB36#18	21.06	20.99	21.50	18.07	18.00	18.51
		RB36#37	22.97	22.82	23.19	19.98	19.83	20.20
		RB75#0	22.91	22.87	23.38	19.92	19.88	20.39
20.0	QPSK	RB1#0	22.96	22.77	23.10	19.97	19.78	20.11
		RB1#49	22.86	22.82	23.24	19.87	19.83	20.25
		RB1#99	22.77	22.94	23.57	19.78	19.95	20.58
		RB50#0	22.06	21.90	22.28	19.07	18.91	19.29
		RB50#24	22.01	22.02	22.54	19.02	19.03	19.55
		RB50#49	22.04	22.00	22.38	19.05	19.01	19.39
		RB100#0	22.21	21.87	22.17	19.22	18.88	19.18
	16QAM	RB1#0	22.27	22.09	22.37	19.28	19.10	19.38
		RB1#49	22.04	22.14	22.60	19.05	19.15	19.61
		RB1#99	21.03	20.89	21.30	18.04	17.90	18.31
		RB50#0	21.04	21.00	21.56	18.05	18.01	18.57
		RB50#24	21.06	21.05	21.39	18.07	18.06	18.40
		RB50#49	22.96	22.77	23.10	19.97	19.78	20.11
		RB100#0	22.86	22.82	23.24	19.87	19.83	20.25

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

For Band7: Antenna Gain = -2.99dBi

Limit: EIRP ≤ 33dBm

LTE Band 12

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	22.42	22.39	22.41	18.44	18.41	18.43
		RB1#3	22.38	22.38	22.44	18.40	18.40	18.46
		RB1#5	22.36	22.39	22.35	18.38	18.41	18.37
		RB3#0	22.39	22.32	22.44	18.41	18.34	18.46
		RB3#3	22.36	22.33	22.41	18.38	18.35	18.43
		RB6#0	21.36	21.26	21.43	17.38	17.28	17.45
	16QAM	RB1#0	21.5	21.45	21.67	17.52	17.47	17.69
		RB1#3	21.51	21.42	21.57	17.53	17.44	17.59
		RB1#5	21.45	21.4	21.61	17.47	17.42	17.63
		RB3#0	21.49	21.44	21.51	17.51	17.46	17.53
		RB3#3	21.47	21.46	21.48	17.49	17.48	17.50
		RB6#0	20.53	20.21	20.46	16.55	16.23	16.48
3.0	QPSK	RB1#0	22.42	22.39	22.41	18.44	18.41	18.43
		RB1#8	22.42	22.37	22.57	18.44	18.39	18.59
		RB1#14	22.34	22.27	22.37	18.36	18.29	18.39
		RB6#0	21.37	21.37	21.43	17.39	17.39	17.45
		RB6#9	21.39	21.38	21.39	17.41	17.40	17.41
		RB15#0	21.43	21.3	21.44	17.45	17.32	17.46
	16QAM	RB1#0	21.55	21.37	21.53	17.57	17.39	17.55
		RB1#8	21.65	21.47	21.73	17.67	17.49	17.75
		RB1#14	21.53	21.5	21.62	17.55	17.52	17.64
		RB6#0	20.4	20.38	20.49	16.42	16.40	16.51
		RB6#9	20.39	20.53	20.49	16.41	16.55	16.51
		RB15#0	20.42	20.34	20.46	16.44	16.36	16.48

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.43	22.45	22.43	18.45	18.47	18.45
		RB1#13	22.43	22.51	22.52	18.45	18.53	18.54
		RB1#24	22.37	22.37	22.45	18.39	18.39	18.47
		RB15#0	21.38	21.34	21.4	17.40	17.36	17.42
		RB15#10	21.38	21.38	21.45	17.40	17.40	17.47
		RB25#0	21.41	21.33	21.35	17.43	17.35	17.37
	16QAM	RB1#0	21.5	21.59	21.48	17.52	17.61	17.50
		RB1#13	21.61	21.69	21.65	17.63	17.71	17.67
		RB1#24	21.37	21.53	21.49	17.39	17.55	17.51
		RB15#0	20.35	20.36	20.4	16.37	16.38	16.42
		RB15#10	20.43	20.37	20.5	16.45	16.39	16.52
		RB25#0	20.4	20.36	20.4	16.42	16.38	16.42
10.0	QPSK	RB1#0	22.45	22.4	22.45	18.47	18.42	18.47
		RB1#25	22.42	22.41	22.49	18.44	18.43	18.51
		RB1#49	22.33	22.37	22.44	18.35	18.39	18.46
		RB25#0	21.38	21.4	21.37	17.40	17.42	17.39
		RB25#25	21.41	21.43	21.52	17.43	17.45	17.54
		RB50#0	21.44	21.39	21.37	17.46	17.41	17.39
	16QAM	RB1#0	21.61	21.55	21.63	17.63	17.57	17.65
		RB1#25	21.63	21.55	21.62	17.65	17.57	17.64
		RB1#49	21.52	21.55	21.6	17.54	17.57	17.62
		RB25#0	20.47	20.44	20.36	16.49	16.46	16.38
		RB25#25	20.4	20.41	20.51	16.42	16.43	16.53
		RB50#0	20.45	20.36	20.41	16.47	16.38	16.43

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)
For Band12: Antenna Gain = -1.43dBi = -3.98dBd (0dBd=2.15dBi)
Limit: ERP ≤ 34.77dBm

LTE Band 14

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	23.02	23.00	23.03	19.94	19.92	19.95
		RB1#13	22.94	23.03	22.97	19.86	19.95	19.89
		RB1#24	22.85	22.99	22.99	19.77	19.91	19.91
		RB15#0	21.94	21.97	21.98	18.86	18.89	18.90
		RB15#10	21.93	21.95	21.99	18.85	18.87	18.91
		RB25#0	21.99	21.94	21.92	18.91	18.86	18.84
	16QAM	RB1#0	22.16	22.13	22.00	19.08	19.05	18.92
		RB1#13	22.07	22.15	22.00	18.99	19.07	18.92
		RB1#24	22.04	22.17	22.10	18.96	19.09	19.02
		RB15#0	20.99	20.96	20.94	17.91	17.88	17.86
		RB15#10	20.96	20.96	20.97	17.88	17.88	17.89
		RB25#0	21.02	20.96	20.94	17.94	17.88	17.86
10.0	QPSK	RB1#0	/	21.36	/	/	18.28	/
		RB1#25	/	21.34	/	/	18.26	/
		RB1#49	/	21.23	/	/	18.15	/
		RB25#0	/	20.24	/	/	17.16	/
		RB25#25	/	20.14	/	/	17.06	/
		RB50#0	/	20.12	/	/	17.04	/
	16QAM	RB1#0	/	20.38	/	/	17.30	/
		RB1#25	/	20.53	/	/	17.45	/
		RB1#49	/	20.44	/	/	17.36	/
		RB25#0	/	19.20	/	/	16.12	/
		RB25#25	/	19.09	/	/	16.01	/
		RB50#0	/	19.13	/	/	16.05	/

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd) - Cable Loss(dB)

For Band13: Antenna Gain = -0.93dBi = -3.08dBd (0dBd=2.15dBi)

Cable Loss=0dB* (provided by the applicant)

Limit: ERP≤34.77dBm

LTE Band 30

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.74	22.74	22.61	20.35	20.35	20.22
		RB1#13	22.71	22.73	22.63	20.32	20.34	20.24
		RB1#24	22.66	22.62	22.54	20.27	20.23	20.15
		RB15#0	21.64	21.61	21.59	19.25	19.22	19.20
		RB15#10	21.58	21.54	21.56	19.19	19.15	19.17
		RB25#0	21.63	21.51	21.60	19.24	19.12	19.21
	16QAM	RB1#0	21.91	21.75	21.83	19.52	19.36	19.44
		RB1#13	21.98	21.90	21.76	19.59	19.51	19.37
		RB1#24	21.89	21.81	21.63	19.50	19.42	19.24
		RB15#0	20.66	20.61	20.61	18.27	18.22	18.22
		RB15#10	20.62	20.50	20.59	18.23	18.11	18.20
		RB25#0	20.63	20.55	20.59	18.24	18.16	18.20
10.0	QPSK	RB1#0	/	22.79	/	/	20.40	/
		RB1#25	/	22.78	/	/	20.39	/
		RB1#49	/	22.68	/	/	20.29	/
		RB25#0	/	21.67	/	/	19.28	/
		RB25#25	/	21.58	/	/	19.19	/
		RB50#0	/	21.57	/	/	19.18	/
	16QAM	RB1#0	/	21.82	/	/	19.43	/
		RB1#25	/	21.96	/	/	19.57	/
		RB1#49	/	21.88	/	/	19.49	/
		RB25#0	/	20.67	/	/	18.28	/
		RB25#25	/	20.56	/	/	18.17	/
		RB50#0	/	20.59	/	/	18.20	/

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

For Band30: Antenna Gain = -2.39dBi

Limit: EIRP ≤ 24dBm/5MHz

For 5MHz mode, the channel power is equal to the test result in dBm/5MHz.

For 10MHz mode, the channel power is sum of 10MHz bandwidth, the result is less than 24dBm, so in any 5MHz bandwidth, it will not exceed the limit.

LTE Band 66:

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	22.49	21.87	21.76	20.93	20.31	20.20
		RB1#3	22.5	21.89	21.77	20.94	20.33	20.21
		RB1#5	22.59	21.89	21.78	21.03	20.33	20.22
		RB3#0	22.55	21.84	21.75	20.99	20.28	20.19
		RB3#3	22.54	21.78	21.72	20.98	20.22	20.16
		RB6#0	21.51	20.81	20.73	19.95	19.25	19.17
	16QAM	RB1#0	21.72	21.07	20.81	20.16	19.51	19.25
		RB1#3	21.62	21.18	20.93	20.06	19.62	19.37
		RB1#5	21.79	20.93	20.91	20.23	19.37	19.35
		RB3#0	21.59	20.93	20.85	20.03	19.37	19.29
		RB3#3	21.54	20.94	20.83	19.98	19.38	19.27
		RB6#0	20.46	19.82	19.71	18.90	18.26	18.15
3.0	QPSK	RB1#0	22.49	21.78	21.78	20.93	20.22	20.22
		RB1#8	22.59	21.81	21.85	21.03	20.25	20.29
		RB1#14	22.5	21.74	21.72	20.94	20.18	20.16
		RB6#0	21.52	20.8	20.78	19.96	19.24	19.22
		RB6#9	21.57	20.82	20.78	20.01	19.26	19.22
		RB15#0	21.57	20.79	20.74	20.01	19.23	19.18
	16QAM	RB1#0	21.68	20.98	20.84	20.12	19.42	19.28
		RB1#8	21.72	21.05	20.98	20.16	19.49	19.42
		RB1#14	21.76	21.07	20.88	20.20	19.51	19.32
		RB6#0	20.63	19.9	19.67	19.07	18.34	18.11
		RB6#9	20.52	19.9	19.84	18.96	18.34	18.28
		RB15#0	20.6	19.82	19.79	19.04	18.26	18.23

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.55	21.92	21.8	20.99	20.36	20.24
		RB1#13	22.64	21.94	21.78	21.08	20.38	20.22
		RB1#24	22.59	21.87	21.9	21.03	20.31	20.34
		RB15#0	21.59	20.82	20.78	20.03	19.26	19.22
		RB15#10	21.57	20.78	20.78	20.01	19.22	19.22
		RB25#0	21.59	20.82	20.77	20.03	19.26	19.21
	16QAM	RB1#0	21.97	21.03	20.98	20.41	19.47	19.42
		RB1#13	21.93	21.15	20.98	20.37	19.59	19.42
		RB1#24	21.72	21.04	21.08	20.16	19.48	19.52
		RB15#0	20.63	19.86	19.81	19.07	18.30	18.25
		RB15#10	20.62	19.83	19.81	19.06	18.27	18.25
		RB25#0	20.59	19.87	19.82	19.03	18.31	18.26
10.0	QPSK	RB1#0	22.58	21.98	21.62	21.02	20.42	20.06
		RB1#25	22.58	21.93	21.72	21.02	20.37	20.16
		RB1#49	22.44	21.74	21.66	20.88	20.18	20.10
		RB25#0	21.48	20.88	20.7	19.92	19.32	19.14
		RB25#25	21.53	20.73	20.74	19.97	19.17	19.18
		RB50#0	21.59	20.85	20.73	20.03	19.29	19.17
	16QAM	RB1#0	21.87	21.17	20.77	20.31	19.61	19.21
		RB1#25	21.68	20.98	20.92	20.12	19.42	19.36
		RB1#49	21.57	20.77	20.84	20.01	19.21	19.28
		RB25#0	20.5	19.91	19.77	18.94	18.35	18.21
		RB25#25	20.5	19.8	19.8	18.94	18.24	18.24
		RB50#0	20.56	19.81	19.75	19.00	18.25	18.19

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	22.38	21.92	21.57	20.82	20.36	20.01
		RB1#38	22.38	21.68	21.71	20.82	20.12	20.15
		RB1#74	22.2	21.56	21.66	20.64	20.00	20.10
		RB36#0	21.44	20.83	20.58	19.88	19.27	19.02
		RB36#39	21.41	20.64	20.6	19.85	19.08	19.04
		RB75#0	21.46	20.74	20.63	19.90	19.18	19.07
	16QAM	RB1#0	21.57	21.21	20.7	20.01	19.65	19.14
		RB1#38	21.58	21.12	20.66	20.02	19.56	19.10
		RB1#74	21.48	20.77	20.76	19.92	19.21	19.20
		RB36#0	20.45	19.86	19.58	18.89	18.30	18.02
		RB36#39	20.4	19.66	19.59	18.84	18.10	18.03
		RB75#0	20.49	19.76	19.62	18.93	18.20	18.06
20.0	QPSK	RB1#0	22.45	22	21.43	20.89	20.44	19.87
		RB1#50	22.25	21.84	21.46	20.69	20.28	19.90
		RB1#99	22.08	21.54	21.59	20.52	19.98	20.03
		RB50#0	21.39	20.9	20.56	19.83	19.34	19.00
		RB50#50	21.33	20.61	20.59	19.77	19.05	19.03
		RB100#0	21.39	20.77	20.6	19.83	19.21	19.04
	16QAM	RB1#0	21.47	21.02	20.74	19.91	19.46	19.18
		RB1#50	21.5	20.93	20.91	19.94	19.37	19.35
		RB1#99	21.28	20.56	20.96	19.72	19.00	19.40
		RB50#0	20.47	19.89	19.56	18.91	18.33	18.00
		RB50#50	20.36	19.66	19.6	18.80	18.10	18.04
		RB100#0	20.45	19.77	19.6	18.89	18.21	18.04

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

For Band 66: Antenna Gain = -1.56dBi

Limit: EIRP ≤ 30dBm

FCC § 2.1053; § 22.917 (a); § 24.238 (a); § 27.53; § 90.543 - SPURIOUS RADIATED EMISSIONS

Applicable Standard

FCC § 2.1053, § 22.917(a) & § 24.238(a) & § 27.53 & § 90.543.

Test Procedure

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 receiving 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.

Test Data

Environmental Conditions

Temperature:	23.5~26.5 °C
Relative Humidity:	52 ~58%
ATM Pressure:	100.8~101.0 kPa

The testing was performed by Jimi Zheng from 2022-12-03 to 2022-12-19

EUT operation mode: Transmitting (Scan with X-AXIS, Y-AXIS, Z-AXIS, the worst case Y-AXIS was recorded)

The worst case is as below:

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Test frequency range: 30MHz-20GHz								
WCDMA Band 2,1852.4MHz								
239.01	-58.06	82	1.4	H	7.4	-50.66	-13	-37.66
634.11	-48.65	133	2.2	V	7.0	-41.65	-13	-28.65
3704.8	-48.30	137	1.7	H	8.2	-40.10	-13	-27.10
3704.8	-45.00	190	1.2	V	7.6	-37.40	-13	-24.40
5557.2	-50.70	248	1.7	H	9.7	-41.00	-13	-28.00
5557.2	-50.20	147	1.6	V	9.1	-41.10	-13	-28.10
WCDMA Band2,1880MHz								
239.01	-58.06	82	1.4	H	7.4	-50.66	-13	-37.66
634.11	-48.65	133	2.2	V	7.0	-41.65	-13	-28.65
3760.0	-50.00	121	1.2	H	8.8	-41.20	-13	-28.20
3760.0	-48.60	28	2.3	V	8	-40.60	-13	-27.60
5640.0	-51.70	283	1.8	H	10.2	-41.50	-13	-28.50
5640.0	-51.00	338	2.4	V	9.4	-41.60	-13	-28.60
WCDMA Band2,1907.6MHz								
238.73	-58.56	67	2.4	H	7.4	-51.16	-13	-38.16
633.95	-49.19	137	1.7	V	7.0	-42.19	-13	-29.19
3815.2	-50.10	259	2.2	H	8.7	-41.40	-13	-28.40
3815.2	-48.70	339	2.3	V	7.9	-40.80	-13	-27.80
5722.8	-52.70	232	1.2	H	10.6	-42.10	-13	-29.10
5722.8	-52.00	67	2.5	V	10.1	-41.90	-13	-28.90

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Test frequency range: 30MHz-10GHz								
WCDMA Band 5,826.4MHz								
239.14	-58.66	44	1.7	H	7.4	-51.26	-13	-38.26
634.54	-49.29	336	1.3	V	7.0	-42.29	-13	-29.29
1652.8	-54.00	110	1.2	H	3.5	-50.50	-13	-37.50
1652.8	-52.20	96	1.6	V	3.1	-49.10	-13	-36.10
2479.2	-44.70	23	2.1	H	6.5	-38.20	-13	-25.20
2479.2	-41.20	207	1.4	V	5.7	-35.50	-13	-22.50
3305.6	-49.80	177	1.1	H	6.4	-43.40	-13	-30.40
3305.6	-48.90	126	2.1	V	5.7	-43.20	-13	-30.20
WCDMA Band5,836.6MHz								
239.23	-58.6	39	1.3	H	7.4	-51.2	-13	-38.2
634.62	-48.91	140	2	V	7.0	-41.91	-13	-28.91
1673.2	-49.30	162	1.1	H	3.8	-45.50	-13	-32.50
1673.2	-49.20	180	2.4	V	3.1	-46.10	-13	-33.10
2509.8	-52.80	118	1.6	H	6.2	-46.60	-13	-33.60
2509.8	-51.00	198	2	V	5.6	-45.40	-13	-32.40
3346.4	-49.10	192	1.7	H	6.6	-42.50	-13	-29.50
3346.4	-48.20	28	1.5	V	5.4	-42.80	-13	-29.80
WCDMA Band5,846.6MHz								
239.23	-58.6	39	1.3	H	7.4	-51.2	-13	-38.2
634.62	-48.91	140	2	V	7.0	-41.91	-13	-28.91
1693.2	-54.90	330	1.3	H	4	-50.90	-13	-37.90
1693.2	-53.50	15	1.9	V	3.1	-50.40	-13	-37.40
2539.8	-53.70	8	1.4	H	6.1	-47.60	-13	-34.60
2539.8	-52.20	21	1.4	V	5.7	-46.50	-13	-33.50
3386.4	-49.40	226	1.8	H	6.3	-43.10	-13	-30.10
3386.4	-47.80	241	1.3	V	5.4	-42.40	-13	-29.40

LTE Bands: (pre-scan all bandwidth/modulation, the worst case as below)

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 2, Test frequency range: 30MHz-20GHz								
QPSK,1.4MHz,1850.7MHz								
239.47	-58.95	293	1.2	H	7.4	-51.55	-13	-38.55
634.16	-47.95	157	1.8	V	7.0	-40.95	-13	-27.95
3701.4	-44.90	295	1.6	H	8.1	-36.80	-13	-23.80
3701.4	-44.60	88	1.2	V	7.6	-37.00	-13	-24.00
QPSK,1.4MHz,1880MHz								
239.76	-58.11	207	2.5	H	7.4	-50.71	-13	-37.71
634.6	-47.63	251	1.2	V	7.0	-40.63	-13	-27.63
3760.0	-48.30	58	2.4	H	8.8	-39.50	-13	-26.50
3760.0	-45.50	154	1.5	V	8	-37.50	-13	-24.50
QPSK,1.4MHz,1909.3MHz								
239.39	-58.32	107	1.9	H	7.4	-50.92	-13	-37.92
634.39	-48.05	331	1.2	V	7.0	-41.05	-13	-28.05
3818.6	-47.20	196	1.5	H	8.7	-38.50	-13	-25.50
3818.6	-45.50	183	2.1	V	7.9	-37.60	-13	-24.60

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 4, Test frequency range: 30MHz-20GHz								
QPSK,1.4MHz,1710.7MHz								
239.68	-58.63	249	2	H	7.4	-51.23	-13	-38.23
634.4	-48.26	60	1.3	V	7.0	-41.26	-13	-28.26
3421.4	-45.80	16	1	H	6.4	-39.40	-13	-26.40
3421.4	-46.10	38	1.1	V	5.7	-40.40	-13	-27.40
QPSK,1.4MHz,1732.5MHz								
239.90	-58.84	42	1.6	H	7.4	-51.44	-13	-38.44
634.32	-47.91	48	1.3	V	7.0	-40.91	-13	-27.91
3465.0	-46.00	82	2.3	H	7	-39.00	-13	-26.00
3465.0	-47.10	298	1.1	V	6.2	-40.90	-13	-27.90
QPSK,1.4MHz,1754.3MHz								
239.32	-58.12	319	1.8	H	7.4	-50.72	-13	-37.72
634.18	-47.84	229	1.5	V	7.0	-40.84	-13	-27.84
3508.6	-46.50	70	2	H	7.8	-38.70	-13	-25.70
3508.6	-47.20	333	1.9	V	6.6	-40.60	-13	-27.60

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 5, Test frequency range: 30MHz-10GHz								
QPSK,1.4MHz, 824.7MHz								
239.28	-58.47	214	1.9	H	7.4	-51.07	-13	-38.07
634.09	-48.58	218	1.5	V	7.0	-41.58	-13	-28.58
1649.4	-55.80	211	2.4	H	3.5	-52.30	-13	-39.30
1649.4	-54.10	182	1.8	V	3.1	-51.00	-13	-38.00
2474.1	-54.60	48	1.2	H	6.6	-48.00	-13	-35.00
2474.1	-52.90	88	1.8	V	5.8	-47.10	-13	-34.10
3298.8	-48.20	7	1.1	H	6.4	-41.80	-13	-28.80
3298.8	-47.30	172	1.6	V	5.7	-41.60	-13	-28.60
QPSK,1.4MHz, 836.5Hz								
239.5	-58.9	338	1.7	H	7.4	-51.5	-13	-38.5
634.09	-48.17	33	1.9	V	7.0	-41.17	-13	-28.17
1673.0	-55.60	335	1.9	H	3.8	-51.80	-13	-38.80
1673.0	-53.70	209	1.5	V	3.1	-50.60	-13	-37.60
2509.5	-54.80	155	1.1	H	6.2	-48.60	-13	-35.60
2509.5	-53.30	243	2.3	V	5.6	-47.70	-13	-34.70
3346.0	-49.80	268	1.9	H	6.6	-43.20	-13	-30.20
3346.0	-49.00	284	1.3	V	5.4	-43.60	-13	-30.60
QPSK,1.4MHz, 848.3Hz								
239.17	-58.13	107	1.2	H	7.4	-50.73	-13	-37.73
634.07	-47.73	330	1.5	V	7.0	-40.73	-13	-27.73
1696.6	-53.20	69	1.2	H	4.1	-49.10	-13	-36.10
1696.6	-53.00	179	1.3	V	3.1	-49.90	-13	-36.90
2544.9	-54.50	287	1.3	H	6.1	-48.40	-13	-35.40
2544.9	-52.50	30	1.6	V	5.8	-46.70	-13	-33.70
3393.2	-48.20	239	1.7	H	6.3	-41.90	-13	-28.90
3393.2	-46.30	247	1.6	V	5.4	-40.90	-13	-27.90

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 7, Test frequency range: 30MHz-26GHz								
QPSK, 5MHz, 2502.5MHz								
239.43	-58.43	28	2.4	H	7.4	-51.03	-25	-26.03
634.47	-48.39	276	1.4	V	7.0	-41.39	-25	-16.39
5005.0	-52.60	37	2.4	H	10.8	-41.80	-25	-16.80
5005.0	-51.40	157	1.4	V	10.2	-41.20	-25	-16.20
QPSK, 5MHz, 2535MHz								
239.90	-58.62	154	2	H	7.4	-51.22	-25	-26.22
634.42	-47.96	159	1.4	V	7.0	-40.96	-25	-15.96
5070.0	-52.20	253	2.1	H	11.1	-41.10	-25	-16.10
5070.0	-51.20	317	2.4	V	10.8	-40.40	-25	-15.40
QPSK, 5MHz, 2567.5MHz								
239.57	-58.03	350	2.4	H	7.4	-50.63	-25	-25.63
634.35	-47.62	353	1.9	V	7.0	-40.62	-25	-15.62
5135.0	-52.40	201	2.5	H	11.3	-41.10	-25	-16.10
5135.0	-51.20	322	1.6	V	10.8	-40.40	-25	-15.40

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 12, Test frequency range: 30MHz-10GHz								
QPSK, 1.4MHz, 699.7MHz								
239.12	-58.62	82	2.1	H	7.4	-51.22	-13	-38.22
634.32	-48.11	163	2.1	V	7.0	-41.11	-13	-28.11
1399.4	-58.50	149	1.1	H	5.9	-52.60	-13	-39.60
1399.4	-56.60	90	1.5	V	5.9	-50.70	-13	-37.70
2099.1	-51.00	295	1.8	H	6.3	-44.70	-13	-31.70
2099.1	-51.40	141	2.3	V	5.1	-46.30	-13	-33.30
2798.8	-54.10	58	2.1	H	6.7	-47.40	-13	-34.40
2798.8	-53.90	264	1.4	V	6.7	-47.20	-13	-34.20
QPSK, 1.4MHz, 707.5MHz								
239.72	-58.35	270	2.1	H	7.4	-50.95	-13	-37.95
634.36	-47.77	109	1.9	V	7.0	-40.77	-13	-27.77
1415.0	-57.30	28	1.8	H	5.7	-51.60	-13	-38.60
1415.0	-54.90	152	2.2	V	5.4	-49.50	-13	-36.50
2122.5	-51.90	288	1.9	H	6.7	-45.20	-13	-32.20
2122.5	-51.60	141	2.3	V	5.8	-45.80	-13	-32.80
2830.0	-55.70	252	1.9	H	7.1	-48.60	-13	-35.60
2830.0	-54.10	131	1.5	V	6.5	-47.60	-13	-34.60
QPSK, 1.4MHz, 715.3MHz								
239.49	-58.94	239	2.1	H	7.4	-51.54	-13	-38.54
633.94	-47.81	106	1.6	V	7.0	-40.81	-13	-27.81
1430.6	-58.00	268	1.6	H	5.4	-52.60	-13	-39.60
1430.6	-56.00	107	1.3	V	4.8	-51.20	-13	-38.20
2145.9	-51.40	297	1.5	H	7	-44.40	-13	-31.40
2145.9	-52.00	213	2	V	6.6	-45.40	-13	-32.40
2861.2	-55.00	175	2.1	H	7.3	-47.70	-13	-34.70
2861.2	-54.30	90	1.8	V	6.3	-48.00	-13	-35.00

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 14, Test frequency range: 30MHz-10GHz								
QPSK, 5MHz, 790.5MHz								
239.35	-58.51	285	2	H	7.4	-51.11	-13	-38.11
634.23	-48.48	199	2.4	V	7.0	-41.48	-13	-28.48
1581.0	-48.10	100	1	H	4.1	-44.00	-13	-31.00
1581.0	-46.10	292	2.5	V	3.2	-42.90	-13	-29.90
2371.5	-56.30	127	2.1	H	7.1	-49.20	-13	-36.20
2371.5	-54.60	245	1	V	6.2	-48.40	-13	-35.40
3162.0	-51.20	12	1.5	H	7.3	-43.90	-13	-30.90
3162.0	-49.40	98	1.1	V	6.7	-42.70	-13	-29.70
QPSK, 5MHz, 793MHz								
239.19	-58.11	200	1.7	H	7.4	-50.71	-13	-37.71
634.12	-47.75	251	1.1	V	7.0	-40.75	-13	-27.75
1586.0	-47.10	244	1.1	H	4.1	-43.00	-13	-30.00
1586.0	-46.70	49	1.7	V	3.2	-43.50	-13	-30.50
2379.0	-55.40	16	1.3	H	7.1	-48.30	-13	-35.30
2379.0	-53.90	340	2	V	6.1	-47.80	-13	-34.80
3172.0	-50.40	209	1.2	H	7.2	-43.20	-13	-30.20
3172.0	-50.50	317	1.6	V	6.7	-43.80	-13	-30.80
QPSK, 5MHz, 795.5MHz								
239.4	-58.28	348	1.3	H	7.4	-50.88	-13	-37.88
633.81	-48.23	224	1.4	V	7.0	-41.23	-13	-28.23
1591.0	-49.20	308	2.5	H	4.1	-45.10	-13	-32.10
1591.0	-48.90	116	1.1	V	3.2	-45.70	-13	-32.70
2386.5	-55.70	11	1.1	H	7	-48.70	-13	-35.70
2386.5	-55.20	64	1.5	V	6	-49.20	-13	-36.20
3182.0	-50.80	210	1.4	H	7.1	-43.70	-13	-30.70
3182.0	-49.70	233	1.6	V	6.8	-42.90	-13	-29.90

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 30, Test frequency range: 30MHz-24GHz								
QPSK,5MHz,2307.5MHz								
239.75	-58.42	36	2.1	H	7.4	-51.02	-40	-11.02
634.14	-48.06	68	1.9	V	7.0	-41.06	-40	-1.06
4615.0	-59.50	282	1.4	H	10.5	-49.00	-40	-9.00
4615.0	-57.70	148	1.5	V	10.1	-47.60	-40	-7.60
QPSK, 5MHz,2310MHz								
239.85	-58.28	13	2.4	H	7.4	-50.88	-40	-10.88
634.54	-48.36	324	1.1	V	7.0	-41.36	-40	-1.36
4620.0	-60.90	190	1.8	H	10.5	-50.40	-40	-10.40
4620.0	-58.10	88	2.5	V	10.1	-48.00	-40	-8.00
QPSK, 5MHz,2312.5MHz								
239.48	-58.03	48	1.2	H	7.4	-50.63	-40	-10.63
634.44	-48.61	185	2.1	V	7.0	-41.61	-40	-1.61
4625.0	-60.10	62	1.2	H	10.5	-49.60	-40	-9.60
4625.0	-59.20	75	1.1	V	10.1	-49.10	-40	-9.10

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 66, Test frequency range: 30MHz-20GHz								
QPSK, 1.4MHz,1710.7MHz								
239.57	-58.47	324	2.4	H	7.4	-51.07	-13	-38.07
633.91	-48.57	136	1.2	V	7.0	-41.57	-13	-28.57
3421.4	-44.70	177	2	H	6.4	-38.30	-13	-25.30
3421.4	-42.90	271	1.5	V	5.7	-37.20	-13	-24.20
QPSK, 1.4MHz,1745MHz								
239.69	-58.26	290	1.5	H	7.4	-50.86	-13	-37.86
634.34	-48.49	28	2.2	V	7.0	-41.49	-13	-28.49
3490.0	-45.50	67	2.4	H	7.6	-37.90	-13	-24.90
3490.0	-45.30	279	1.9	V	6.4	-38.90	-13	-25.90
QPSK, 1.4MHz,1779.3MHz								
239.89	-58.92	142	2	H	7.4	-51.52	-13	-38.52
634.62	-48.28	19	2.4	V	7.0	-41.28	-13	-28.28
3558.6	-45.80	121	1.3	H	7.8	-38.00	-13	-25.00
3558.6	-44.60	146	1.9	V	7	-37.60	-13	-24.60

Note:

Absolute Level = Reading Level + Substituted Factor

Substituted Factor contains: SG Level - Cable loss+ Antenna Gain

Margin = Absolute Level - Limit

For WWAN and WLAN transmit simultaneously condition, please refer to DTS report.

******* END OF REPORT *******