

SPOT CHECK REPORT

FCC ID: XMR2022EM060KGL
Applicant: Quectel Wireless Solutions Co., Ltd
Product: LTE-A Cat 6 M.2 Module
Model No.: EM060K-GL
Brand Name: Quectel
FCC Rule(s): Part 2, 22(H), 24(E), 27
Result: Complies
Received Date: 2023-09-22
Test Date: 2023-09-25 ~ 2023-10-12

Reviewed By:

Sunny Sun

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.26-2015. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2309RSU052-U1	V01	Initial Report	2023-10-26	Valid

Note: This report is prepared for FCC Class II permissive supplement to FCC ID: XMR2022EM060KGL adding a new antenna & modify the tune up power and related data.

CONTENTS

Description	Page
1. General Information	5
1.1. Applicant	5
1.2. Manufacturer	5
1.3. Testing Facility	5
1.4. Product Information.....	6
1.5. Radio Specification under Testing.....	6
1.6. Description of Available Antennas.....	7
1.7. Test Methodology	7
2. Test Configuration	8
2.1. Test System Connection Diagram.....	8
2.2. Test Environment Condition	8
3. Measuring Instrument	9
4. Decision Rules and Measurement Uncertainty	10
4.1. Decision Rules	10
4.2. Measurement Uncertainty.....	10
5. Test Result	11
5.1. Summary.....	11
5.2. Equivalent Isotropically Radiated Power Measurement	12
5.2.1. Test Limit	12
5.2.2. Test Procedure	12
5.2.3. Test Setting	13
5.2.4. Test Setup	13
5.2.5. Test Result	13
5.3. Radiated Spurious Emissions Measurement.....	14
5.3.1. Test Limit	14
5.3.2. Test Procedure	14
5.3.3. Test Setting	14
5.3.4. Test Setup	15
5.3.5. Test Result	15
Appendix A - Test Result	16
A.1 Equivalent Isotropically Radited Power Test Result.....	16
A.2 Radiated Spurious Emissions Test Result	34
Appendix B - Test Setup Photograph	42

Appendix C - EUT Photograph43

1. General Information

1.1. Applicant

Quectel Wireless Solutions Co., Ltd

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

1.2. Manufacturer

Quectel Wireless Solutions Co., Ltd

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

1.3. Testing Facility

<input checked="" type="checkbox"/>	Test Site – MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian’edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Accreditations
	A2LA: 3628.01 CNAS: L10551
	FCC: CN1166 ISED: CN0001
	VCCI: <input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020
	<input type="checkbox"/> R-20141 <input type="checkbox"/> G-20134 <input type="checkbox"/> C-20103 <input type="checkbox"/> T-20104
<input type="checkbox"/>	Test Site – MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 CNAS: L10551
	FCC: CN1284 ISED: CN0105
<input type="checkbox"/>	Test Site – MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261
	FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	LTE-A Cat 6 M.2 Module
Model No.	EM060K-GL
Brand Name	Quectel
IMEI	Conducted sample: 867228050091049 Radiated sample: 857228050091213
3GPP Specification	WCDMA Band II/IV/V LTE FDD Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 66, 71 LTE TDD Band 38, 41, 42, 43, 46, 48
GNSS Specification	GPS, GLONASS, Bei Dou, Galileo
Temperature Operating Range	-25 ~ 75 °C
Power Supply Rating	3.135 ~ 4.4Vdc, typical 3.7Vdc
Remark:	The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.

1.5. Radio Specification under Testing

E-UTRA Specification	
TX Frequency Range	LTE Band 2: 1850 ~ 1910MHz, LTE Band 4: 1710 ~ 1755MHz LTE Band 5: 824 ~ 849MHz, LTE Band 7: 2500 ~ 2570MHz LTE Band 12: 699 ~ 716MHz, LTE Band 13: 777 ~ 787MHz LTE Band 17: 704 ~ 716MHz, LTE Band 25: 1850 ~ 1915MHz LTE Band 26: 824 ~ 849MHz, LTE Band 38: 2570 ~ 2620MHz LTE Band 41: 2496 ~ 2690MHz, LTE Band 66: 1710 ~ 1780MHz LTE Band 71: 663 ~ 698MHz,
RX Frequency Range	LTE Band 2: 1930 ~ 1990MHz, LTE Band 4: 2110 ~ 2155MHz LTE Band 5: 869 ~ 894MHz, LTE Band 7: 2620 ~ 2690MHz LTE Band 12: 729 ~ 746MHz, LTE Band 13: 746 ~ 756MHz LTE Band 17: 734 ~ 746MHzLTE, Band 25: 1930 ~ 1995MHz LTE Band 26: 869 ~ 894MHz, LTE Band 38: 2570 ~ 2620MHz LTE Band 41: 2496 ~ 2690MHz, LTE Band 66: 2110 ~ 2200MHz LTE Band 71: 663 ~ 698MHz,
Modulation	UL up to 16QAM & DL up to 64QAM
Power Class	3

1.6. Description of Available Antennas

Technology	Frequency Range (MHz)	Antenna Type	Max Peak Gain (dBi)
LTE Band 2	1850 ~ 1910	Dipole PIFA	0.25
LTE Band 4	1710 ~ 1755		1.47
LTE Band 5	824 ~ 849		1.10
LTE Band 7	2500 ~ 2570		2.40
LTE Band 12	699 ~ 716		1.30
LTE Band 13	777 ~ 787		1.30
LTE Band 14	788 ~ 798		1.30
LTE Band 17	704 ~ 716		1.30
LTE Band 25	1850 ~ 1915		0.25
LTE Band 26	814 ~ 849		1.30
LTE Band 30	2305 ~ 2315		-3.00
LTE Band 38	2570 ~ 2620		2.40
LTE Band 41	2496 ~ 2690		2.40
LTE Band 42	3450 ~ 3550		-1.80
LTE Band 43	3700 ~ 3800		0.60
LTE Band 48	3550 ~ 3700		0.60
LTE Band 66	1710 ~ 1780		1.47
LTE Band 71	663 ~ 698		1.22

Note 1: All antenna information (Antenna type and Peak Gain) is provided by the manufacturer.

Note 2: The typical antennas used to calculate the ERP (EIRP).

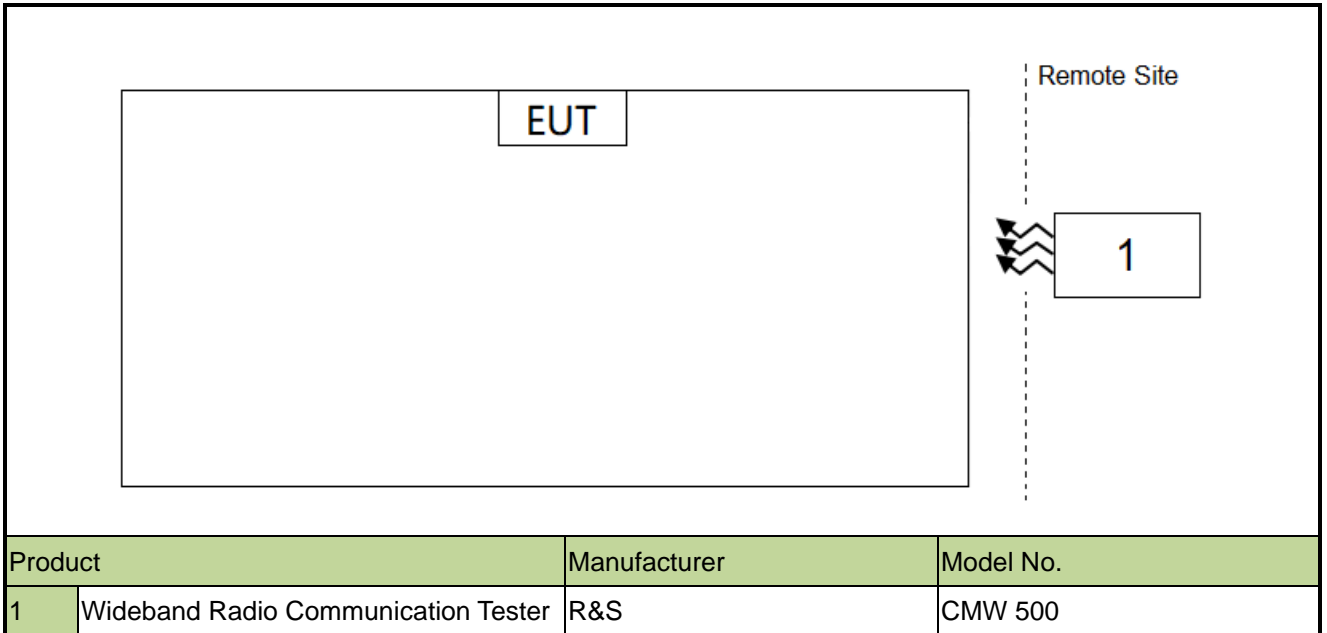
1.7. Test Methodology

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ANSI C63.26:2015
- FCC CFR 47 Part 2, Part 22, Part 24, Part 27
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r01: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01: Determining ERP and EIRP

2. Test Configuration

2.1. Test System Connection Diagram



2.2. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20% ~ 75%RH

3. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2024-05-15	WZ-AC2
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2024-09-17	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2024-05-23	WZ-AC2
Thermohygrometer	Mingle	ETH529	MRTSUE06170	1 year	2023-11-27	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2023-10-13	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2024-05-07	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2024-04-20	WZ-AC2
Horn Antenna	ETS	3117	MRTSUE06257	1 year	2024-09-23	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2023-11-05	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2024-01-12	WZ-AC2
Preamplifier	EMCI	EMC051845SE	MRTSUE06987	1 year	2024-09-07	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11038	1 year	2023-11-01	WZ-AC2
Communication Tester	R&S	CMW500	MRTSUE06243	1 year	2024-09-27	SIP-SR1
Communication Tester	R&S	CMW500	MRTSUE06243	1 year	2023-10-08	SIP-SR1
Thermohygrometer	testo	622	MRTSUE06629	1 year	2024-01-03	SIP-SR1
Communication Tester	R&S	CMW500	MRTSUE06881	1 year	2024-05-23	SIP-SR1
DC POWER MODULE	Keysight	N6743B	MRTSUE06905	N/A	N/A	SIP-SR1
DC POWER MODULE	Keysight	N6743B	MRTSUE06906	N/A	N/A	SIP-SR1
Signal Analyzer	Keysight	N9021B	MRTSUE06915	1 year	2023-12-28	SIP-SR1
Temperature Chamber	BAOYT	BYG-80CL	MRTSUE06932	1 year	2024-02-12	SIP-SR1
Shielding Room	MIX-BEP	SIP-SR1	MRTSUE06948	N/A	N/A	SIP-SR1

Software	Version	Function
EMI Software	V3.0.0	EMI Test Software
Controller_MF 7802	2.03C	RE Antenna & Turntable

4. Decision Rules and Measurement Uncertainty

4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Radiated Spurious Emissions	
The maximum measurement uncertainty is evaluated as:	
Coaxial:	9kHz~30MHz: 2.59dB
Coplanar:	9kHz~30MHz: 2.60dB
Horizontal:	30MHz~200MHz: 3.85dB
	200MHz~1GHz: 4.36dB
	1GHz~40GHz: 4.98dB
Vertical:	30MHz~200MHz: 4.06dB
	200MHz~1GHz: 5.28dB
	1GHz~40GHz: 4.91dB
Output Power	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$):	
1.5dB	

5. Test Result

5.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Test Result
22.913(a)(5), 24.232(c) 27.50(b)(10)(c)(10)(d)(4)(h)(2)	Equivalent Radiated Power / Equivalent Isotropic Radiated Power	Conducted	Pass
2.1051, 22.917(a) 24.238(a), 27.53(c)(g)(h)	Spurious Emissions	Radiated	Pass

Notes:

- 1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 2) For radiated emission tests, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
- 3) LTE Band 25 (1850 ~ 1915 MHz) overlaps the entire frequency range of LTE Band 2 (1850 ~ 1910 MHz). Therefore, test data provided in this report covers Band 2 as well as Band 25.
 LTE Band 66 (1710 ~ 1780 MHz) overlaps the entire frequency range of LTE Band 4 (1710 ~ 1755 MHz). Therefore, test data provided in this report covers Band 4 as well as Band 66.
 LTE Band 12 (699 ~ 716 MHz) overlaps the entire frequency range of LTE Band 17 (704 ~ 716 MHz). Therefore, test data provided in this report covers Band 17 as well as Band 12.
 LTE Band 41 (2496 ~ 2690 MHz) overlaps the entire frequency range of LTE Band 38 (2570 ~ 2620 MHz). Therefore, test data provided in this report covers Band 38 as well as Band 41.
- 4) LTE band 26 transmit frequency for part 90 rule is 814 ~ 824MHz and part 22 rule is 824 ~ 849MHz. ERP over 15MHz bandwidth complies the ERP limit line of part 22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies.

5.2. Equivalent Isotropically Radiated Power Measurement

5.2.1. Test Limit

Band 2/25:

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.

Band 4/66:

Fixed, mobile stations operating in the 1710-1755 MHz band and mobile in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

Band 5:

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

Band 7:

Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

Band 12, 13, 17:

Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

Control and mobile stations in the 698-746 MHz band are limited to 3 watts ERP.

Band 38/41:

Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

Band 71:

Fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

5.2.2. Test Procedure

ANSI C63.26-2015 - Section 5.2

5.2.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T$$

where

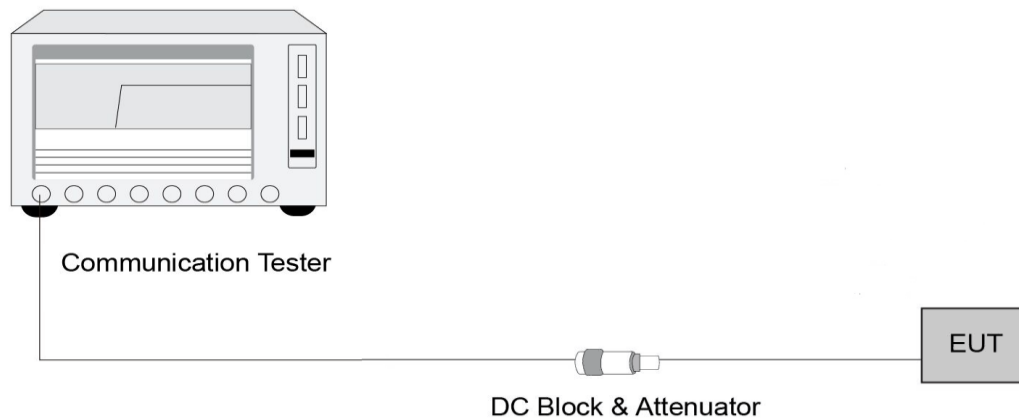
ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

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

$$\text{ERP} = \text{EIRP} - 2.15$$

5.2.4. Test Setup



5.2.5. Test Result

Refer to Appendix A.1.

5.3. Radiated Spurious Emissions Measurement

5.3.1. Test Limit

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. The emission limit equal to -13dBm.

For Band 7, 38/41 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 $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm.

For LTE Band 13, For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW (-50dBm) EIRP for discrete emissions of less than 700 Hz bandwidth.

E (dB μ V/m) = EIRP (dBm) - 20 log D + 104.8; where D is the measurement distance in meters. The emission limit equal to 82.3dB μ V/m or 55.3dB μ V/m.

5.3.2. Test Procedure

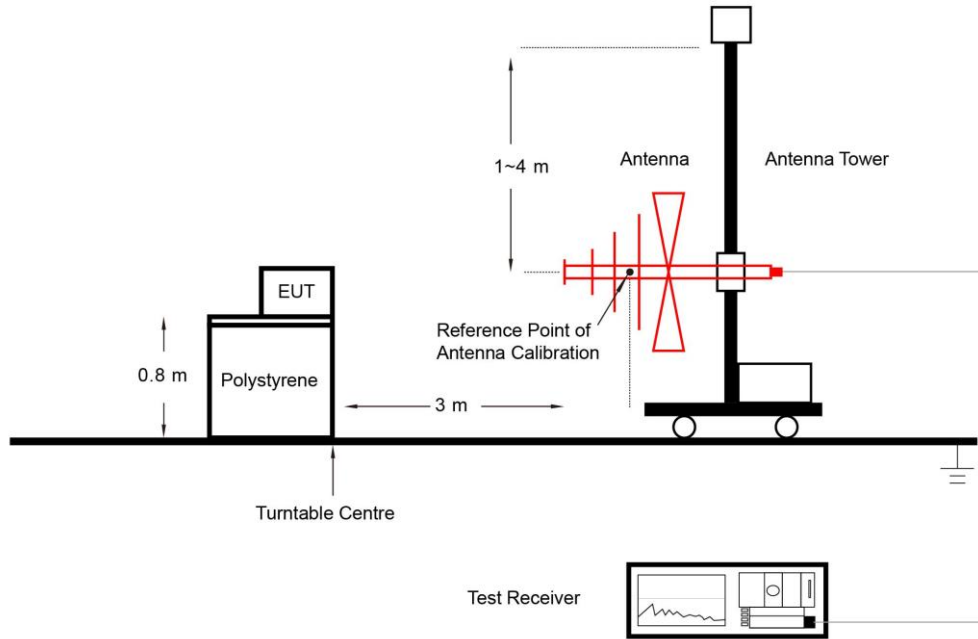
ANSI C63.26-2015 - Section 5.2.7 & 5.5

5.3.3. Test Setting

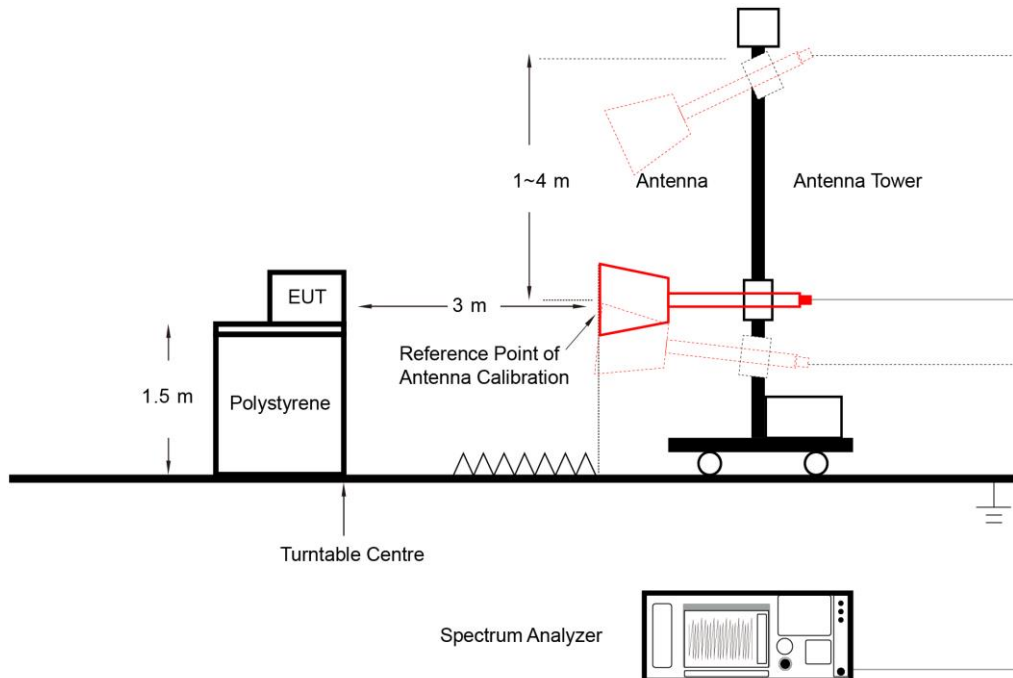
1. RBW = 1MHz
2. VBW \geq 3*RBW
3. Sweep time \geq 10 \times (number of points in sweep) \times (transmission symbol period)
4. Detector = Peak
5. Trace mode = max hold
6. The trace was allowed to stabilize

5.3.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



5.3.5. Test Result

Refer to Appendix A.2.

Appendix A - Test Result

A.1 Equivalent Isotropically Radited Power Test Result

Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2023-09-25 ~ 2023-10-10	Test Band	LTE Band 2/25

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
1.4	1850.70	1	0	23.41	23.66	< 33.01
	1880.00			23.38	23.63	< 33.01
	1909.30			23.65	23.90	< 33.01
1.4	1850.70	1	2	23.48	23.73	< 33.01
	1880.00			23.45	23.70	< 33.01
	1909.30			23.69	23.94	< 33.01
1.4	1850.70	1	6	23.41	23.66	< 33.01
	1880.00			23.39	23.64	< 33.01
	1909.30			23.62	23.87	< 33.01
1.4	1850.70	6	0	22.36	22.61	< 33.01
	1880.00			22.44	22.69	< 33.01
	1909.30			22.68	22.93	< 33.01
3	1851.50	1	0	23.44	23.69	< 33.01
	1880.00			23.45	23.70	< 33.01
	1908.50			23.71	23.96	< 33.01
3	1851.50	1	7	23.46	23.71	< 33.01
	1880.00			23.49	23.74	< 33.01
	1908.50			23.69	23.94	< 33.01
3	1851.50	1	14	23.45	23.70	< 33.01
	1880.00			23.47	23.72	< 33.01
	1908.50			23.71	23.96	< 33.01
3	1851.50	15	0	22.49	22.74	< 33.01
	1880.00			22.59	22.84	< 33.01
	1908.50			22.83	23.08	< 33.01

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

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
5	1852.50	1	0	23.43	23.68	< 33.01
	1880.00			23.55	23.80	< 33.01
	1907.50			23.53	23.78	< 33.01
5	1852.50	1	12	23.51	23.76	< 33.01
	1880.00			23.63	23.88	< 33.01
	1907.50			23.63	23.88	< 33.01
5	1852.50	1	24	23.58	23.83	< 33.01
	1880.00			23.52	23.77	< 33.01
	1907.50			23.65	23.90	< 33.01
5	1852.50	25	0	22.53	22.78	< 33.01
	1880.00			22.61	22.86	< 33.01
	1907.50			22.71	22.96	< 33.01
10	1855.00	1	0	23.59	23.84	< 33.01
	1880.00			23.57	23.82	< 33.01
	1905.00			23.63	23.88	< 33.01
10	1855.00	1	24	23.62	23.87	< 33.01
	1880.00			23.58	23.83	< 33.01
	1905.00			23.68	23.93	< 33.01
10	1855.00	1	49	23.62	23.87	< 33.01
	1880.00			23.57	23.82	< 33.01
	1905.00			23.71	23.96	< 33.01
10	1855.00	50	0	22.69	22.94	< 33.01
	1880.00			22.69	22.94	< 33.01
	1905.00			22.78	23.03	< 33.01

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

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
15	1857.50	1	0	23.62	23.87	< 33.01
	1880.00			23.59	23.84	< 33.01
	1902.50			23.66	23.91	< 33.01
15	1857.50	1	37	23.65	23.90	< 33.01
	1880.00			23.59	23.84	< 33.01
	1902.50			23.76	24.01	< 33.01
15	1857.50	1	74	23.66	23.91	< 33.01
	1880.00			23.56	23.81	< 33.01
	1902.50			23.72	23.97	< 33.01
15	1857.50	75	0	22.69	22.94	< 33.01
	1880.00			22.65	22.90	< 33.01
	1902.50			22.87	23.12	< 33.01
20	1860.00	1	0	23.55	23.80	< 33.01
	1880.00			23.56	23.81	< 33.01
	1900.00			23.62	23.87	< 33.01
20	1860.00	1	49	23.62	23.87	< 33.01
	1880.00			23.61	23.86	< 33.01
	1900.00			23.69	23.94	< 33.01
20	1860.00	1	99	23.51	23.76	< 33.01
	1880.00			23.63	23.88	< 33.01
	1900.00			23.69	23.94	< 33.01
20	1860.00	100	0	22.61	22.86	< 33.01
	1880.00			22.73	22.98	< 33.01
	1900.00			22.86	23.11	< 33.01

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

Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2023-09-25 ~ 2023-10-10	Test Band	LTE Band 4/66

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
1.4	1710.70	1	0	22.54	24.01	< 30.00
	1745.00			23.51	24.98	< 30.00
	1779.30			23.61	25.08	< 30.00
1.4	1710.70	1	2	22.56	24.03	< 30.00
	1745.00			23.57	25.04	< 30.00
	1779.30			23.65	25.12	< 30.00
1.4	1710.70	1	6	23.51	24.98	< 30.00
	1745.00			23.52	24.99	< 30.00
	1779.30			23.64	25.11	< 30.00
1.4	1710.70	6	0	22.55	24.02	< 30.00
	1745.00			22.54	24.01	< 30.00
	1779.30			22.68	24.15	< 30.00
3	1711.50	1	0	23.59	25.06	< 30.00
	1745.00			23.57	25.04	< 30.00
	1778.50			23.63	25.10	< 30.00
3	1711.50	1	7	23.58	25.05	< 30.00
	1745.00			23.54	25.01	< 30.00
	1778.50			23.67	25.14	< 30.00
3	1711.50	1	14	23.57	25.04	< 30.00
	1745.00			23.47	24.94	< 30.00
	1778.50			23.67	25.14	< 30.00
3	1711.50	15	0	22.61	24.08	< 30.00
	1745.00			22.62	24.09	< 30.00
	1778.50			22.63	24.10	< 30.00

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

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
5	1712.50	1	0	23.59	25.06	< 30.00
	1745.00			23.68	25.15	< 30.00
	1777.50			23.59	25.06	< 30.00
5	1712.50	1	12	23.68	25.15	< 30.00
	1745.00			23.65	25.12	< 30.00
	1777.50			23.74	25.21	< 30.00
5	1712.50	1	24	23.58	25.05	< 30.00
	1745.00			23.51	24.98	< 30.00
	1777.50			23.67	25.14	< 30.00
5	1712.50	25	0	22.63	24.10	< 30.00
	1745.00			22.69	24.16	< 30.00
	1777.50			22.72	24.19	< 30.00
10	1715.00	1	0	23.62	25.09	< 30.00
	1745.00			23.74	25.21	< 30.00
	1775.00			23.63	25.10	< 30.00
10	1715.00	1	24	23.64	25.11	< 30.00
	1745.00			23.56	25.03	< 30.00
	1775.00			23.63	25.10	< 30.00
10	1715.00	1	49	23.63	25.10	< 30.00
	1745.00			23.52	24.99	< 30.00
	1775.00			23.64	25.11	< 30.00
10	1715.00	50	0	23.65	25.12	< 30.00
	1745.00			22.73	24.20	< 30.00
	1775.00			22.66	24.13	< 30.00

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

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
15	1717.50	1	0	23.64	25.11	< 30.00
	1745.00			23.73	25.20	< 30.00
	1772.50			23.65	25.12	< 30.00
15	1717.50	1	37	23.69	25.16	< 30.00
	1745.00			23.59	25.06	< 30.00
	1772.50			23.54	25.01	< 30.00
15	1717.50	1	74	23.71	25.18	< 30.00
	1745.00			23.52	24.99	< 30.00
	1772.50			23.57	25.04	< 30.00
15	1717.50	75	0	22.71	24.18	< 30.00
	1745.00			22.72	24.19	< 30.00
	1772.50			22.68	24.15	< 30.00
20	1720.00	1	0	23.67	25.14	< 30.00
	1745.00			23.71	25.18	< 30.00
	1770.00			23.55	25.02	< 30.00
20	1720.00	1	49	23.71	25.18	< 30.00
	1745.00			23.55	25.02	< 30.00
	1770.00			23.52	24.99	< 30.00
20	1720.00	1	99	23.75	25.22	< 30.00
	1745.00			23.47	24.94	< 30.00
	1770.00			23.57	25.04	< 30.00
20	1720.00	100	0	22.76	24.23	< 30.00
	1745.00			22.73	24.20	< 30.00
	1770.00			22.73	24.20	< 30.00

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

Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2023-09-25 ~ 2023-10-10	Test Band	LTE Band 5

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
1.4	824.70	1	0	23.64	22.59	< 38.45
	836.50			23.66	22.61	< 38.45
	848.30			23.63	22.58	< 38.45
1.4	824.70	1	2	23.67	22.62	< 38.45
	836.50			23.71	22.66	< 38.45
	848.30			23.65	22.60	< 38.45
1.4	824.70	1	6	23.63	22.58	< 38.45
	836.50			23.65	22.60	< 38.45
	848.30			23.64	22.59	< 38.45
1.4	824.70	6	0	22.61	21.56	< 38.45
	836.50			22.69	21.64	< 38.45
	848.30			22.71	21.66	< 38.45
3	825.50	1	0	23.68	22.63	< 38.45
	836.50			23.71	22.66	< 38.45
	847.50			23.66	22.61	< 38.45
3	825.50	1	7	23.65	22.60	< 38.45
	836.50			23.72	22.67	< 38.45
	847.50			23.71	22.66	< 38.45
3	825.50	1	14	23.66	22.61	< 38.45
	836.50			23.68	22.63	< 38.45
	847.50			23.71	22.66	< 38.45
3	825.50	15	0	22.72	21.67	< 38.45
	836.50			22.75	21.70	< 38.45
	847.50			22.73	21.68	< 38.45

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
5	826.50	1	0	23.69	22.64	< 38.45
	836.50			23.69	22.64	< 38.45
	846.50			23.63	22.58	< 38.45
5	826.50	1	12	23.73	22.68	< 38.45
	836.50			23.75	22.70	< 38.45
	846.50			23.73	22.68	< 38.45
5	826.50	1	24	23.64	22.59	< 38.45
	836.50			23.69	22.64	< 38.45
	846.50			23.69	22.64	< 38.45
5	826.50	25	0	22.71	21.66	< 38.45
	836.50			22.76	21.71	< 38.45
	846.50			22.77	21.72	< 38.45
10	829.00	1	0	23.69	22.64	< 38.45
	836.50			23.71	22.66	< 38.45
	844.00			23.75	22.70	< 38.45
10	829.00	1	24	23.62	22.57	< 38.45
	836.50			23.72	22.67	< 38.45
	844.00			23.61	22.56	< 38.45
10	829.00	1	49	23.67	22.62	< 38.45
	836.50			23.67	22.62	< 38.45
	844.00			23.65	22.60	< 38.45
10	829.00	50	0	22.79	21.74	< 38.45
	836.50			22.77	21.72	< 38.45
	844.00			22.77	21.72	< 38.45

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
15	821.50	1	0	23.67	22.62	< 38.45
	836.50			23.64	22.59	< 38.45
	841.50			23.66	22.61	< 38.45
15	821.50	1	37	23.64	22.59	< 38.45
	836.50			23.65	22.60	< 38.45
	841.50			23.65	22.60	< 38.45
15	821.50	1	74	23.68	22.63	< 38.45
	836.50			23.69	22.64	< 38.45
	841.50			23.65	22.60	< 38.45
15	821.50	75	0	22.74	21.69	< 38.45
	836.50			22.76	21.71	< 38.45
	841.50			22.71	21.66	< 38.45

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2023-09-25 ~ 2023-10-10	Test Band	LTE Band 7

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
5	2502.50	1	0	23.09	25.49	< 33.01
	2535.00			23.03	25.43	< 33.01
	2567.50			23.05	25.45	< 33.01
5	2502.50	1	12	23.18	25.58	< 33.01
	2535.00			23.07	25.47	< 33.01
	2567.50			23.12	25.52	< 33.01
5	2502.50	1	24	23.21	25.61	< 33.01
	2535.00			22.98	25.38	< 33.01
	2567.50			23.05	25.45	< 33.01
5	2502.50	25	0	22.21	24.61	< 33.01
	2535.00			22.06	24.46	< 33.01
	2567.50			22.13	24.53	< 33.01
10	2505.00	1	0	23.17	25.57	< 33.01
	2535.00			23.01	25.41	< 33.01
	2565.00			23.01	25.41	< 33.01
10	2505.00	1	24	23.25	25.65	< 33.01
	2535.00			22.94	25.34	< 33.01
	2565.00			23.02	25.42	< 33.01
10	2505.00	1	49	23.24	25.64	< 33.01
	2535.00			22.99	25.39	< 33.01
	2565.00			23.02	25.42	< 33.01
10	2505.00	50	0	22.23	24.63	< 33.01
	2535.00			22.06	24.46	< 33.01
	2565.00			22.09	24.49	< 33.01

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
15	2507.50	1	0	23.23	25.63	< 33.01
	2535.00			23.04	25.44	< 33.01
	2562.50			23.03	25.43	< 33.01
15	2507.50	1	37	23.23	25.63	< 33.01
	2535.00			22.95	25.35	< 33.01
	2562.50			23.03	25.43	< 33.01
15	2507.50	1	74	23.35	25.75	< 33.01
	2535.00			23.04	25.44	< 33.01
	2562.50			23.07	25.47	< 33.01
15	2507.50	75	0	22.35	24.75	< 33.01
	2535.00			22.11	24.51	< 33.01
	2562.50			22.16	24.56	< 33.01
20	2510.00	1	0	23.13	25.53	< 33.01
	2535.00			23.05	25.45	< 33.01
	2560.00			23.06	25.46	< 33.01
20	2510.00	1	49	23.07	25.47	< 33.01
	2535.00			23.01	25.41	< 33.01
	2560.00			23.03	25.43	< 33.01
20	2510.00	1	99	23.09	25.49	< 33.01
	2535.00			23.02	25.42	< 33.01
	2560.00			23.11	25.51	< 33.01
20	2510.00	100	0	22.09	24.49	< 33.01
	2535.00			22.08	24.48	< 33.01
	2560.00			22.13	24.53	< 33.01

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2023-09-25 ~ 2023-10-10	Test Band	LTE Band 12/17

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
1.4	699.70	1	0	23.41	22.56	< 34.77
	707.50			23.49	22.64	< 34.77
	715.30			23.41	22.56	< 34.77
1.4	699.70	1	2	23.46	22.61	< 34.77
	707.50			23.53	22.68	< 34.77
	715.30			23.44	22.59	< 34.77
1.4	699.70	1	6	23.43	22.58	< 34.77
	707.50			23.45	22.60	< 34.77
	715.30			23.41	22.56	< 34.77
1.4	699.70	6	0	22.44	21.59	< 34.77
	707.50			22.55	21.70	< 34.77
	715.30			22.47	21.62	< 34.77
3	700.50	1	0	23.51	22.66	< 34.77
	707.50			23.53	22.68	< 34.77
	714.50			23.47	22.62	< 34.77
3	700.50	1	7	23.47	22.62	< 34.77
	707.50			23.49	22.64	< 34.77
	714.50			23.47	22.62	< 34.77
3	700.50	1	14	23.43	22.58	< 34.77
	707.50			23.47	22.62	< 34.77
	714.50			23.49	22.64	< 34.77
3	700.50	15	0	22.48	21.63	< 34.77
	707.50			22.57	21.72	< 34.77
	714.50			22.48	21.63	< 34.77

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
5	701.50	1	0	23.45	22.60	< 34.77
	707.50			23.55	22.70	< 34.77
	713.50			23.43	22.58	< 34.77
5	701.50	1	12	23.49	22.64	< 34.77
	707.50			23.58	22.73	< 34.77
	713.50			23.55	22.70	< 34.77
5	701.50	1	24	23.49	22.64	< 34.77
	707.50			23.47	22.62	< 34.77
	713.50			23.49	22.64	< 34.77
5	701.50	25	0	22.62	21.77	< 34.77
	707.50			22.55	21.70	< 34.77
	713.50			22.42	21.57	< 34.77
10	704.00	1	0	23.52	22.67	< 34.77
	707.50			23.45	22.60	< 34.77
	711.00			23.53	22.68	< 34.77
10	704.00	1	24	23.54	22.69	< 34.77
	707.50			23.53	22.68	< 34.77
	711.00			23.51	22.66	< 34.77
10	704.00	1	49	23.52	22.67	< 34.77
	707.50			23.47	22.62	< 34.77
	711.00			23.56	22.71	< 34.77
10	704.00	50	0	22.61	21.76	< 34.77
	707.50			22.57	21.72	< 34.77
	711.00			22.52	21.67	< 34.77

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2023-09-25 ~ 2023-10-10	Test Band	LTE Band 13

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
5	779.5	1	0	23.58	22.73	< 34.77
	782.0			23.48	22.63	< 34.77
	784.5			23.58	22.73	< 34.77
5	779.5	1	12	23.56	22.71	< 34.77
	782.0			23.62	22.77	< 34.77
	784.5			23.76	22.91	< 34.77
5	779.5	1	24	23.58	22.73	< 34.77
	782.0			23.66	22.81	< 34.77
	784.5			23.67	22.82	< 34.77
5	779.5	25	0	22.62	21.77	< 34.77
	782.0			22.63	21.78	< 34.77
	784.5			22.61	21.76	< 34.77
10	782.0	1	0	23.59	22.74	< 34.77
	782.0	1	24	23.55	22.70	< 34.77
	782.0	1	49	23.62	22.77	< 34.77
	782.0	50	0	22.64	21.79	< 34.77

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2023-09-25 ~ 2023-10-10	Test Band	LTE Band 71

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
5	665.50	1	0	23.63	22.70	< 34.77
	680.50			23.61	22.68	< 34.77
	695.50			23.71	22.78	< 34.77
5	665.50	1	12	23.66	22.73	< 34.77
	680.50			23.65	22.72	< 34.77
	695.50			23.75	22.82	< 34.77
5	665.50	1	24	23.57	22.64	< 34.77
	680.50			23.53	22.60	< 34.77
	695.50			23.61	22.68	< 34.77
5	665.50	25	0	22.62	21.69	< 34.77
	680.50			22.65	21.72	< 34.77
	695.50			22.77	21.84	< 34.77
10	668.00	1	0	23.69	22.76	< 34.77
	680.50			23.64	22.71	< 34.77
	693.00			23.59	22.66	< 34.77
10	668.00	1	24	23.64	22.71	< 34.77
	680.50			23.69	22.76	< 34.77
	693.00			23.56	22.63	< 34.77
10	668.00	1	49	23.61	22.68	< 34.77
	680.50			23.63	22.70	< 34.77
	693.00			23.61	22.68	< 34.77
10	668.00	50	0	22.81	21.88	< 34.77
	680.50			22.67	21.74	< 34.77
	693.00			22.65	21.72	< 34.77

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
15	670.50	1	0	23.62	22.69	< 34.77
	680.50			23.68	22.75	< 34.77
	690.50			23.59	22.66	< 34.77
15	670.50	1	37	23.73	22.80	< 34.77
	680.50			23.69	22.76	< 34.77
	690.50			23.56	22.63	< 34.77
15	670.50	1	74	23.68	22.75	< 34.77
	680.50			23.71	22.78	< 34.77
	690.50			23.63	22.70	< 34.77
15	670.50	75	0	22.82	21.89	< 34.77
	680.50			22.73	21.80	< 34.77
	690.50			22.69	21.76	< 34.77
20	673.00	1	0	23.61	22.68	< 34.77
	683.00			23.77	22.84	< 34.77
	688.00			23.69	22.76	< 34.77
20	673.00	1	49	23.53	22.60	< 34.77
	683.00			23.68	22.75	< 34.77
	688.00			23.73	22.80	< 34.77
20	673.00	1	99	23.62	22.69	< 34.77
	683.00			23.74	22.81	< 34.77
	688.00			23.76	22.83	< 34.77
20	673.00	100	0	22.77	21.84	< 34.77
	683.00			22.76	21.83	< 34.77
	688.00			22.82	21.89	< 34.77

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Test Site	SIP-SR1	Test Engineer	Yoniter Yang
Test Date	2023-09-25 ~ 2023-10-10	Test Band	LTE Band 38/41

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
5	2498.50	1	0	23.39	25.79	< 33.01
	2593.00			23.16	25.56	< 33.01
	2687.50			23.05	25.45	< 33.01
5	2498.50	1	12	23.51	25.91	< 33.01
	2593.00			23.25	25.65	< 33.01
	2687.50			23.11	25.51	< 33.01
5	2498.50	1	24	23.44	25.84	< 33.01
	2593.00			23.17	25.57	< 33.01
	2687.50			23.06	25.46	< 33.01
5	2498.50	25	0	22.42	24.82	< 33.01
	2593.00			22.19	24.59	< 33.01
	2687.50			22.16	24.56	< 33.01
10	2501.00	1	0	23.47	25.87	< 33.01
	2593.00			23.11	25.51	< 33.01
	2685.00			23.12	25.52	< 33.01
10	2501.00	1	24	23.43	25.83	< 33.01
	2593.00			23.13	25.53	< 33.01
	2685.00			23.09	25.49	< 33.01
10	2501.00	1	49	23.49	25.89	< 33.01
	2593.00			23.17	25.57	< 33.01
	2685.00			23.13	25.53	< 33.01
10	2501.00	50	0	22.42	24.82	< 33.01
	2593.00			22.22	24.62	< 33.01
	2685.00			22.19	24.59	< 33.01

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
15	2503.50	1	0	23.45	25.85	< 33.01
	2593.00			23.13	25.53	< 33.01
	2682.50			23.06	25.46	< 33.01
15	2503.50	1	37	23.46	25.86	< 33.01
	2593.00			23.08	25.48	< 33.01
	2682.50			23.06	25.46	< 33.01
15	2503.50	1	74	23.56	25.96	< 33.01
	2593.00			23.18	25.58	< 33.01
	2682.50			23.15	25.55	< 33.01
15	2503.50	75	0	22.48	24.88	< 33.01
	2593.00			22.13	24.53	< 33.01
	2682.50			22.21	24.61	< 33.01
20	2506.00	1	0	23.49	25.89	< 33.01
	2593.00			23.13	25.53	< 33.01
	2680.00			23.05	25.45	< 33.01
20	2506.00	1	49	23.51	25.91	< 33.01
	2593.00			23.08	25.48	< 33.01
	2680.00			23.09	25.49	< 33.01
20	2506.00	1	99	23.56	25.96	< 33.01
	2593.00			23.15	25.55	< 33.01
	2680.00			23.14	25.54	< 33.01
20	2506.00	100	0	22.45	24.85	< 33.01
	2593.00			22.19	24.59	< 33.01
	2680.00			22.18	24.58	< 33.01

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

A.2 Radiated Spurious Emissions Test Result

Test Site	WZ-AC2	Test Engineer	Carl Jiang
Test Date	2023-09-29 ~ 2023-09-30	Test Band	LTE Band 2/25, 1RB, QPSK

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Middle Channel							
3762.500	42.6	-0.4	42.2	82.3	-40.1	Peak	Horizontal
11582.500	31.3	17.4	48.7	82.3	-33.6	Peak	Horizontal
10681.500	32.1	16.5	48.6	82.3	-33.7	Peak	Vertical
15577.500	34.2	18.5	52.7	82.3	-29.6	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Test Site	WZ-AC2	Test Engineer	Carl Jiang
Test Date	2023-09-29 ~ 2023-09-30	Test Band	LTE Band 4/66, 1RB, QPSK

Frequency (MHz)	Reading Level (dB μ V)	Factor (dB/m)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
Middle Channel							
3490.500	49.7	-1.3	48.4	82.3	-33.9	Peak	Horizontal
14430.000	32.2	18.9	51.1	82.3	-31.2	Peak	Horizontal
10469.000	33.6	15.4	49.0	82.3	-33.3	Peak	Vertical
14957.000	32.5	19.0	51.5	82.3	-30.8	Peak	Vertical

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m)
 Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Test Site	WZ-AC2	Test Engineer	Carl Jiang
Test Date	2023-09-29 ~ 2023-09-30	Test Band	LTE Band 5/26, 1RB, QPSK

Frequency (MHz)	Reading Level (dB μ V)	Factor (dB/m)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
Middle Channel							
9253.500	31.6	14.1	45.7	82.3	-36.6	Peak	Horizontal
14923.000	31.7	19.6	51.3	82.3	-31.0	Peak	Horizontal
11599.500	31.8	17.1	48.9	82.3	-33.4	Peak	Vertical
15008.000	31.9	19.5	51.4	82.3	-30.9	Peak	Vertical
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).							

Test Site	WZ-AC2	Test Engineer	Carl Jiang
Test Date	2023-09-29 ~ 2023-09-30	Test Band	LTE Band 7, 1RB, QPSK

Frequency (MHz)	Reading Level (dB μ V)	Factor (dB/m)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
Middle Channel							
10129.000	34.2	14.3	48.5	70.3	-21.8	Peak	Horizontal
15008.000	32.1	19.5	51.6	70.3	-18.7	Peak	Horizontal
10129.000	40.5	14.3	54.8	70.3	-15.5	Peak	Vertical
15195.000	34.3	18.0	52.3	70.3	-18.0	Peak	Vertical
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).							

Test Site	WZ-AC2	Test Engineer	Carl Jiang
Test Date	2023-09-29 ~ 2023-09-30	Test Band	LTE Band 12, 1RB, QPSK

Frequency (MHz)	Reading Level (dB μ V)	Factor (dB/m)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
Middle Channel							
1416.500	43.8	-5.0	38.8	82.3	-43.5	Peak	Horizontal
12704.500	32.6	17.2	49.8	82.3	-32.5	Peak	Horizontal
9262.000	31.6	14.0	45.6	82.3	-36.7	Peak	Vertical
15008.000	32.0	19.5	51.5	82.3	-30.8	Peak	Vertical
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).							

Test Site	WZ-AC2	Test Engineer	Carl Jiang
Test Date	2023-09-29 ~ 2023-09-30	Test Band	LTE Band 13, 1RB, QPSK

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Middle Channel							
1586.500	36.9	-5.4	31.5	55.3	-23.8	Peak	Horizontal
15025.000	32.2	19.3	51.5	82.3	-30.8	Peak	Horizontal
1569.500	34.8	-5.3	29.5	55.3	-25.8	Peak	Vertical
11693.000	31.6	17.1	48.7	82.3	-33.6	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).							

Test Site	WZ-AC2	Test Engineer	Carl Jiang
Test Date	2023-09-29 ~ 2023-09-30	Test Band	LTE Band 17, 1RB, QPSK

Frequency (MHz)	Reading Level (dB μ V)	Factor (dB/m)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
Middle Channel							
8199.500	33.8	11.4	45.2	82.3	-37.1	Peak	Horizontal
11531.500	32.4	17.2	49.6	82.3	-32.7	Peak	Horizontal
10877.000	32.5	16.4	48.9	82.3	-33.4	Peak	Vertical
15033.500	32.9	18.8	51.7	82.3	-30.6	Peak	Vertical
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).							

Test Site	WZ-AC2	Test Engineer	Carl Jiang
Test Date	2023-09-29 ~ 2023-09-30	Test Band	LTE Band 38/41, 1RB, QPSK

Frequency (MHz)	Reading Level (dB μ V)	Factor (dB/m)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
Middle Channel							
5182.000	43.7	3.2	46.9	70.3	-23.4	Peak	Horizontal
14940.000	32.3	19.7	52.0	70.3	-18.3	Peak	Horizontal
10367.000	36.2	15.2	51.4	70.3	-18.9	Peak	Vertical
14923.000	32.0	19.6	51.6	70.3	-18.7	Peak	Vertical

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m)
 Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Appendix B - Test Setup Photograph

Refer to "2309RSU052-UT" file.

Appendix C - EUT Photograph

Refer to "2309RSU052-UE" file.