FCC TEST REPORT

(PART 27)

Applicant:	Jiangyin Xinxinzhihuo Technology Co., Ltd.
Address:	Room 302, Building 1, No.2, Binjiang West Road, Jiangyin City, China

Manufacturer or Supplier:	Jiangyin Xinxinzhihuo Technology Co., Ltd.
Address:	Room 302, Building 1, No.2, Binjiang West Road, Jiangyin City, China
Product:	LTE Module
Brand Name:	芯芯之火
Model Name:	FX095-G1
FCC ID	2BQML2025FX095G1
Date of tests	Jun. 10, 2025 ~ Jul. 11, 2025

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 27** ☒ **ANSI/TIA/EIA-603-D** ☒ **FCC Part 2**	☒ **ANSI/TIA/EIA-603-E** ☒ **ANSI C63.26-2015**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

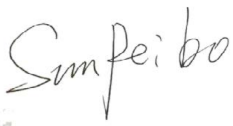
Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
	
Date: Jul. 11, 2025	Date: Jul. 11, 2025

TABLE OF CONTENTS

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-QSU2506090109RF06	Original release	Jul. 11, 2025

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 27 & PART 2			
STANDARD SECTION	**TEST TYPE AND LIMIT**	**RESULT**	**TEST LAB***
§2.1046	Conducted Output Power	Compliance	A
§27.50(a)(3)	Equivalent Isotropically Radiated Power (Band 40)	Compliance	A
§2.1055 §27.54	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§2.1051 § 27.53(a)(4)	Conducted Band Edge Measurements (Band 40)	Compliance	A
§2.1051 § 27.53(a)(4)	Conducted Spurious Emissions (Band 40)	Compliance	A
§2.1053 § 27.53(a)(4)	Radiated Spurious Emissions (Band 40)	Compliance	A
-	Peak to average ratio	Compliance	A
§27.50(a)(3)	Duty cycle	Compliance	A

* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

***Test Lab Information Reference**

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

Accredited Test Lab Cert 6613.01

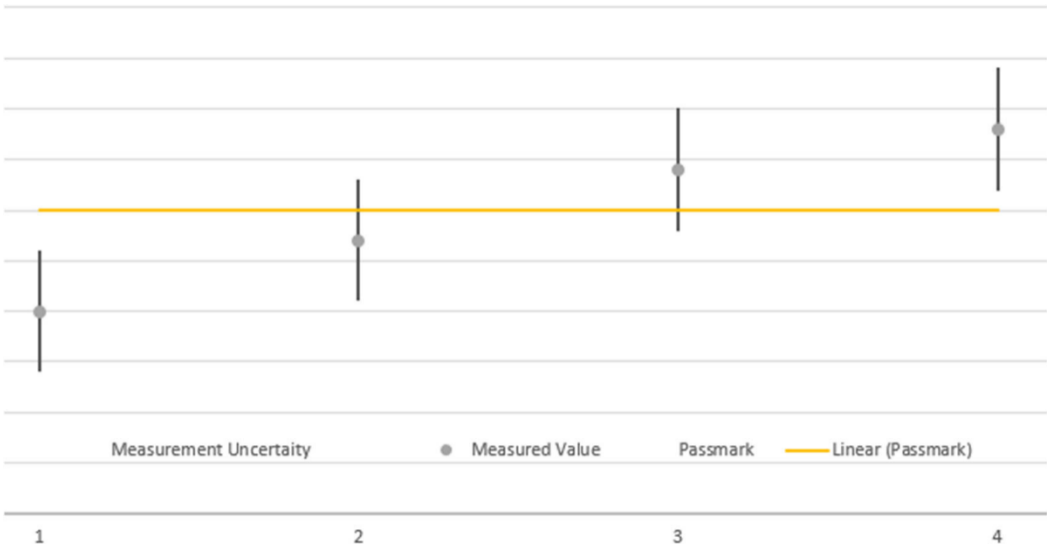
The FCC Site Registration No. is 434559; The Designation No. is CN1325.

1.1 MEASREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Frequency Stability	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Band Edge Measurements	±4.70dB

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



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,23	Aug.29,25
Pre-Amplifier	R&S	SCU08F1	101028	Jan.22,24	Jan.21,26
Vector Signal Generator	R&S	SMBV100B	102176	Mar.29,24	Mar.28,26
Signal Generator	R&S	SMB100A	182185	Mar.29,24	Mar.28,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Mar.28,24	Mar.27,26
EMI TEST Receiver	R&S	ESW44	101973	Mar.28,24	Mar.27,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Jul.05,23	Jul.04,25
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Jul.04,25	Jul.03,27
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,23	Aug.21,25
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Jul.15,24	Jul.14,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Mar.22,25	Mar.21,27
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.22,25	Feb.21,27
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
Test Software	EMC32	EMC32	N/A	N/A	N/A
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.31,23	Aug.30,25
Hygrothermograph	DELI	20210528	SZ014	Mar.18,25	Mar.17,27
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.26,25	Apr.25,26
CABLE	R&S	W12.14	N/A	Apr.26,25	Apr.25,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.26,25	Apr.25,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.26,25	Apr.25,26
Temperature Chamber	votsch	VT4002	585660781000050	May.30,24	May.29,26

NOTE:

1. The calibration interval of the above test instruments is 12/ 24/ 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	LTE Module	
BRAND NAME*	芯芯之火	
MODEL NAME*	FX095-G1	
NOMINAL VOLTAGE*	3.8Vdc	
MODULATION TECHNOLOGY	**LTE**	QPSK, 16QAM
FREQUENCY RANGE	**LTE Band 40(2305-2315 MHz) Channel Bandwidth: 5MHz**	2307.5MHz ~ 2312.5MHz
	LTE Band 40(2305-2315 MHz) Channel Bandwidth: 10MHz	2310MHz
	LTE Band 40(2350-2360 MHz) Channel Bandwidth: 5MHz	2352.5MHz ~ 2357.5MHz
	LTE Band 40(2350-2360 MHz) Channel Bandwidth: 10MHz	2355MHz
MAX. EIRP POWER	**LTE Band 40(2305-2315 MHz) Channel Bandwidth: 5MHz**	136.46mW
	LTE Band 40(2305-2315 MHz) Channel Bandwidth: 10MHz	138.36mW
	LTE Band 40(2350-2360 MHz) Channel Bandwidth: 5MHz	136.14mW
	LTE Band 40(2350-2360 MHz) Channel Bandwidth: 10MHz	138.68mW
EMISSION DESIGNATOR	**LTE Band 40(2305-2315 MHz) Channel Bandwidth: 5MHz**	QPSK: 4M50G7D
		16QAM: 4M50W7D
	LTE Band 40(2305-2315 MHz) Channel Bandwidth: 5MHz	QPSK: 8M97G7D
		16QAM: 4M91W7D
	LTE Band 40(2350-2360 MHz) Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M51W7D
	LTE Band 40(2350-2360 MHz) Channel Bandwidth: 5MHz	QPSK: 8M97G7D
		16QAM: 4M92W7D
ANTENNA TYPE*	Fixed External Antenna with -1.1dBi gain for LTE 40	
HW VERSION*	FX095-G1_GLOBAL_V1.0	
SW VERSION*	V4100LCB10004R00C0008	
I/O PORTS*	Refer to user's manual	
CABLE SUPPLIED*	N/A	
EXTREME TEMPERATURE*	-35 ~75℃	
EXTREME VOLTAGE*	3.4~4.5V	

NOTE:

1. ***Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

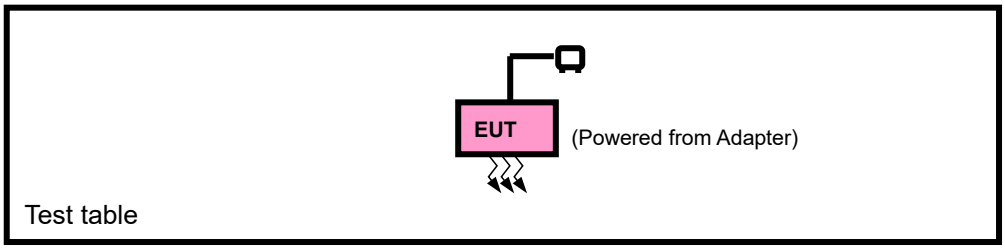
3. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receivers.

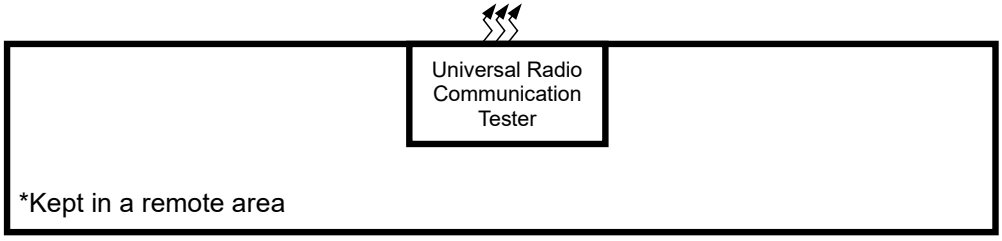
MODULATION MODE	TX FUNCTION
LTE	1TX/1RX

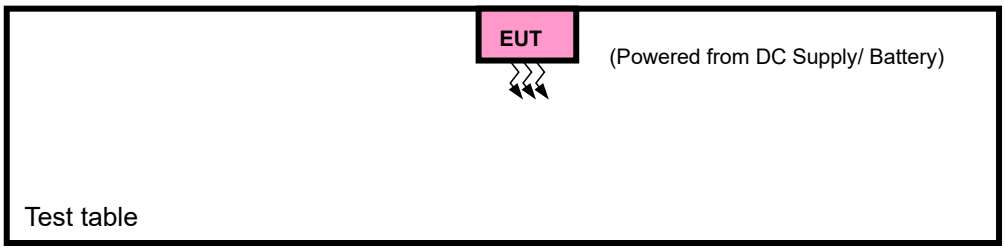
4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

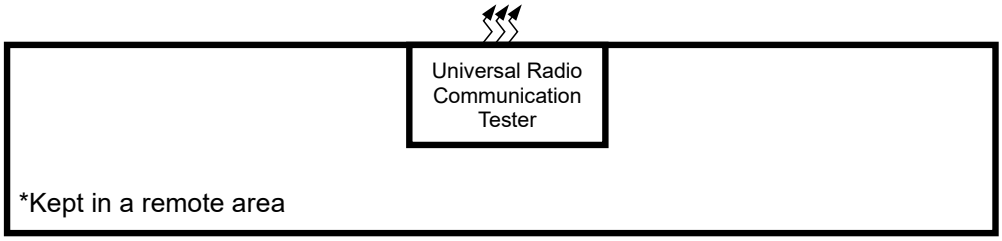
2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST









2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Adapter	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports The worst case was found when positioned on Y-plane for EIRP and Z-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with LTE link
B	EUT + DC Supply with LTE link

LTE BAND 40 MODE(2305-2315 MHz)						
EUT CONFIGURE MODE	**TEST ITEM**	**AVAILABLE CHANNEL**	**TESTED CHANNEL**	**CHANNEL BANDWIDTH**	**MODULATION**	**MODE**
A	EIRP	38725 to 38775	38725, 38750, 38775	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		38750	38750	10MHz	QPSK, 16QAM	1 RB / 0RB Offset
B	FREQUENCY STABILITY	38750	38750	10MHz	QPSK	50 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	38725 to 38775	38725, 38750, 38775	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		38750	38750	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	38725 to 38775	38725, 38750, 38775	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
		38750	38750	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
A	BAND EDGE	38725 to 38775	38725	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
			38775	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		38750	38750	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						50 RB / 0 RB Offset
A	CONDCUDETED EMISSION	38725 to 38775	38725, 38750, 38775	5MHz	QPSK	1 RB / 0 RB Offset
		38750	38750	10MHz	QPSK	1 RB / 0RB Offset
A	RADIATED EMISSION	38725 to 38775	38725, 38750, 38775	5MHz	QPSK	1 RB / 0 RB Offset
		38750	38750	10MHz	QPSK	1 RB / 0RB Offset
A	Duty Cycle	38750	38750	5	QPSK	25 RB / 0 RB Offset
		38750	38750	10	QPSK	50 RB / 0RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

LTE BAND 40 MODE(2350-2360 MHz)						
EUT CONFIGURE MODE	**TEST ITEM**	**AVAILABLE CHANNEL**	**TESTED CHANNEL**	**CHANNEL BANDWIDTH**	**MODULATION**	**MODE**
A	EIRP	39175 to 39225	39175, 39200, 39225	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		39200	39200	10MHz	QPSK, 16QAM	1 RB / 0RB Offset
B	FREQUENCY STABILITY	39200	39200	10MHz	QPSK	50 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	39175 to 39225	39175, 39200, 39225	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		39200	39200	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	39175 to 39225	39175 to 39225	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
		39200	39200	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
A	BAND EDGE	39175 to 39225	39175	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
			39225	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		39200	39200	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						50 RB / 0 RB Offset
A	CONDCUDETED EMISSION	39175 to 39225	39175, 39200, 39225	5MHz	QPSK	1 RB / 0 RB Offset
		39200	39200	10MHz	QPSK	1 RB / 0RB Offset
A	RADIATED EMISSION	39175 to 39225	39175, 39200, 39225	5MHz	QPSK	1 RB / 0 RB Offset
		39200	39200	10MHz	QPSK	1 RB / 0RB Offset
A	Duty Cycle	39200	39200	5	QPSK	25 RB / 0 RB Offset
		39200	39200	10	QPSK	50 RB / 0RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

TEST CONDITION			
TEST ITEM	**ENVIRONMENTAL CONDITIONS**	**INPUT POWER**	**TESTED BY**
EIRP	23deg. C, 70%RH	DC 3.8Vdc By Adapter	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.4V/ 3.8V/ 4.5V By DC Source	Hanwen Xu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 3.8Vdc By Adapter	Hanwen Xu
BAND EDGE	23deg. C, 70%RH	DC 3.8Vdc By Adapter	Hanwen Xu
CONDCUDETED EMISSION	23deg. C, 70%RH	DC 3.8Vdc By Adapter	Hanwen Xu
RADIATED EMISSION	23deg. C, 70%RH	AC 120V/60Hz	Hanwen Xu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 3.8Vdc By Adapter	Hanwen Xu

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Part 27.50(a)(3)

Mobile and portable stations.

(i) 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.

(ii) Mobile and portable stations are not permitted to transmit in the 2315-2320 MHz and 2345-2350 MHz bands.

(iii) ***Automatic transmit power control.*** Mobile and portable stations transmitting in the 2305-2315 MHz band or in the 2350-2360 MHz band must employ automatic transmit power control when operating so the stations operate with the minimum power necessary for successful communications.

(iv) ***Prohibition on external vehicle-mounted antennas.*** The use of external vehicle-mounted antennas for mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band is prohibited.

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determing the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP or EIRP = $P_{Meas} + G_T – L_C$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas}, typically dBW or dBm);

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);

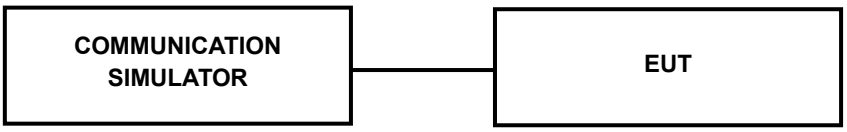
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

LTE Band 40(2305-2315 MHz)						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel			38750	
		Frequency (MHz)			2310	
10	QPSK	1	0	/	**22.51**	/
		1	50	/	22.01	/
		1	99	/	21.69	/
		50	0	/	21.30	/
		50	25	/	22.49	/
		50	50	/	20.90	/
		100	0	/	20.89	/
	16QAM	1	0	/	21.55	/
		1	50	/	21.10	/
		1	99	/	20.63	/
		50	0	/	22.39	/
		50	25	/	22.44	/
		50	50	/	22.48	/
		100	0	/	22.49	/
BW [MHz]	Modulation	Channel		38725	38750	38775
		Frequency (MHz)		2307.5	2310	2312.5
5	QPSK	1	0	**22.45**	22.38	22.13
		1	37	22.03	21.63	21.63
		1	74	21.70	21.36	21.27
		36	0	20.99	21.04	20.56
		36	19	22.33	22.31	21.92
		36	39	20.95	20.69	20.26
		75	0	20.99	20.63	20.48
	16QAM	1	0	21.44	21.42	21.10
		1	37	21.26	20.89	20.37
		1	74	20.67	20.59	20.14
		36	0	22.16	22.09	22.29
		36	19	22.33	22.38	22.22
		36	39	22.38	22.18	22.17
		75	0	22.24	22.20	22.28

LTE Band 40(2350-2360 MHz)						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel			39200	
		Frequency (MHz)			2355	
10	QPSK	1	0	/	**22.52**	/
		1	50	/	21.90	/
		1	99	/	21.63	/
		50	0	/	21.24	/
		50	25	/	22.47	/
		50	50	/	20.91	/
		100	0	/	20.90	/
	16QAM	1	0	/	21.65	/
		1	50	/	21.15	/
		1	99	/	20.71	/
		50	0	/	22.42	/
		50	25	/	22.45	/
		50	50	/	22.43	/
		100	0	/	22.51	/
BW [MHz]	Modulation	Channel		39175	39200	39225
		Frequency (MHz)		2352.5	2355	2357.5
5	QPSK	1	0	22.44	22.39	22.32
		1	37	22.08	21.83	21.65
		1	74	21.86	21.48	21.40
		36	0	21.09	21.07	20.57
		36	19	22.34	22.44	22.04
		36	39	21.05	20.82	20.39
		75	0	20.94	20.77	20.63
	16QAM	1	0	21.54	21.50	21.13
		1	37	21.30	20.98	20.35
		1	74	20.79	20.66	20.14
		36	0	22.31	22.24	22.37
		36	19	22.27	22.39	22.38
		36	39	**22.45**	22.28	22.28
		75	0	22.38	22.24	22.34

EIRP

LTE Band 40(2305-2315 MHz)							
BW [MHz] Modulation	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm/5MHz)**	**Gain (dB)**	**EIRP (dBm/5MHz)**	**EIRP (mW/5MHz)**	**Limit (mW/5MHz)**
10M-QPSK	38750	2310	22.51	-1.1	21.41	138.36	250
10M-16QAM	38750	2310	22.49	-1.1	21.39	137.72	250
BW [MHz] Modulation	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm/5MHz)**	**Gain (dB)**	**EIRP (dBm/5MHz)**	**EIRP (mW/5MHz)**	**Limit (mW/5MHz)**
5M-QPSK	38725	2307.5	22.45	-1.1	21.35	136.46	250
	38750	2310	22.38	-1.1	21.28	134.28	250
	38775	2312.5	22.13	-1.1	21.03	126.77	250
5M-16QAM	38725	2307.5	22.38	-1.1	21.28	134.28	250
	38750	2310	22.38	-1.1	21.28	134.28	250
	38775	2312.5	22.29	-1.1	21.19	131.52	250

LTE Band 40(2350-2360 MHz)							
BW [MHz] Modulation	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm/5MHz)**	**Gain (dB)**	**EIRP (dBm/5MHz)**	**EIRP (mW/5MHz)**	**Limit (mW/5MHz)**
10M-QPSK	39200	2355	22.52	-1.1	21.42	138.68	250
10M-16QAM	39200	2355	22.51	-1.1	21.41	138.36	250
BW [MHz] Modulation	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm/5MHz)**	**Gain (dB)**	**EIRP (dBm/5MHz)**	**EIRP (mW/5MHz)**	**Limit (mW/5MHz)**
5M-QPSK	39175	2352.5	22.44	-1.1	21.34	136.14	250
	39200	2355	22.44	-1.1	21.34	136.14	250
	39225	2357.5	22.32	-1.1	21.22	132.43	250
5M-16QAM	39175	2352.5	22.45	-1.1	21.35	136.46	250
	39200	2355	22.39	-1.1	21.29	134.59	250
	39225	2357.5	22.38	-1.1	21.28	134.28	250

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILIITY MEASUREMENT

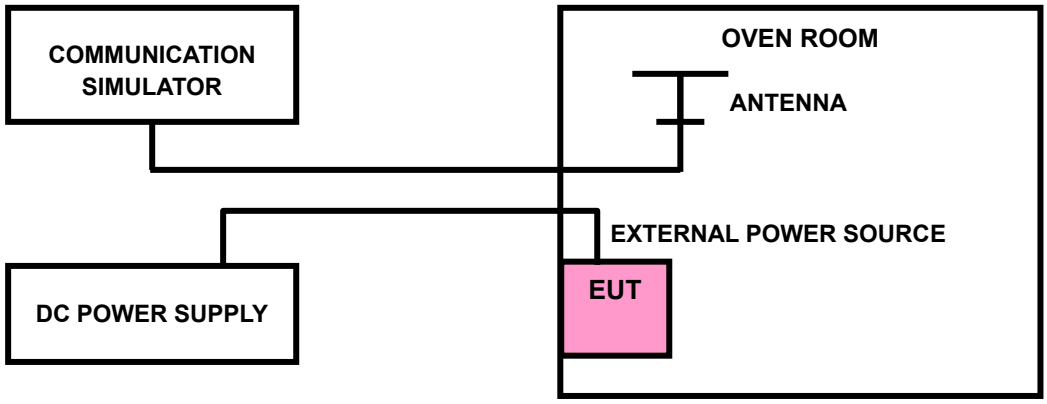
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

3.2.2 TEST PROCEDURE

a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5℃ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP



3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

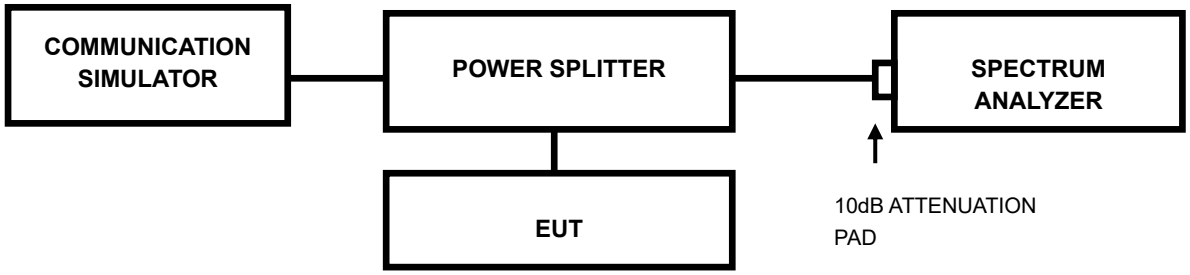
Note: VL = Low voltage(3.4V); VN/NV = Normal voltage(3.8); VH = High voltage(4.5V); NT = Normal temperature (25℃)

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

a. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
b. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.3.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

FCC Part 27.53(a) (4)

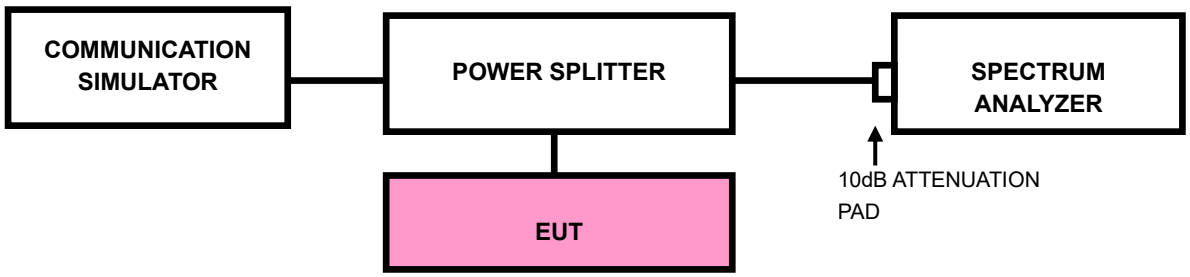
For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

a) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.

b) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW).

c) Set the resolution bandwidth (RBW) ≧ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.

d) Beyond the 1MHz band from the band edge, RBW=1MHz was used.

e) Set the video bandwidth (VBW) to ≧3 x RBW.

f) Select the average power (RMS) display detector.

g) Set the number of measurement points to ≧ 1001.

h) Use auto-coupled sweep time.

i) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.

j) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.

k) Record the max trace plot into the test report.

3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

FCC Part 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

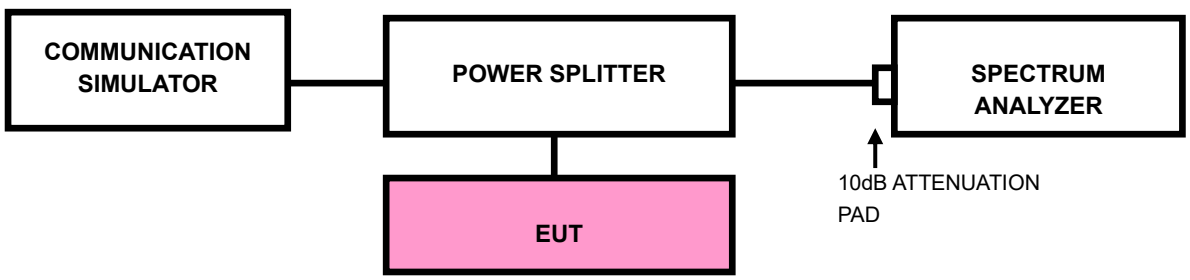
(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

3.5.2 TEST PROCEDURE

a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.

b. Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP



3.5.4 TEST RESULTS

NOTE ： The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix Of this test report.

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FCC Part 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

3.6.2 TEST PROCEDURES

a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value “ of step a. Record the power level of S.G.
c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.

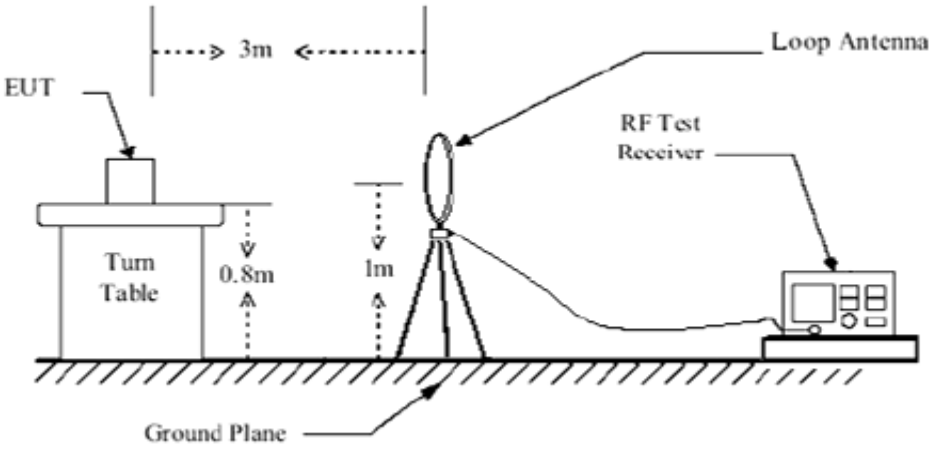
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

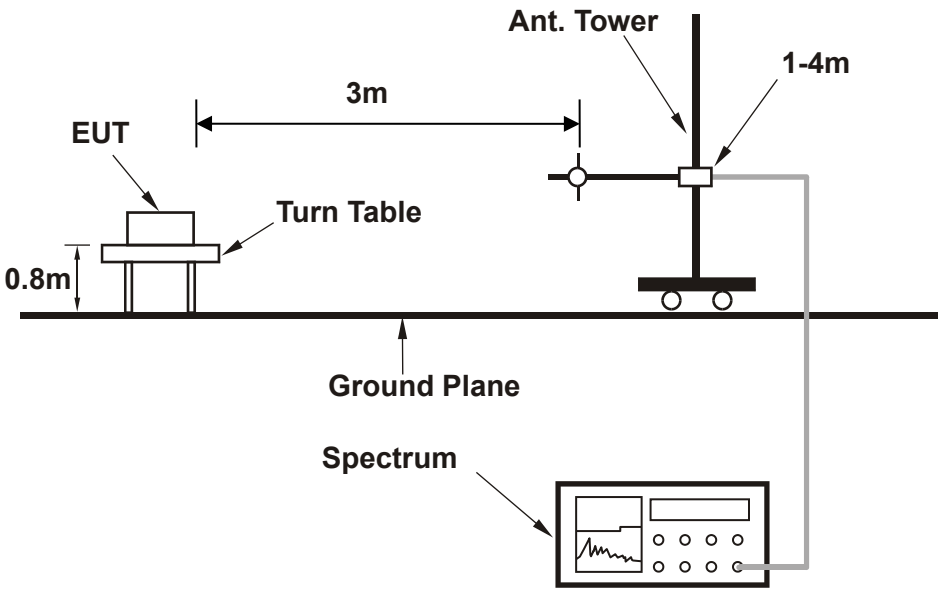
No deviation

3.6.4 TEST SETUP

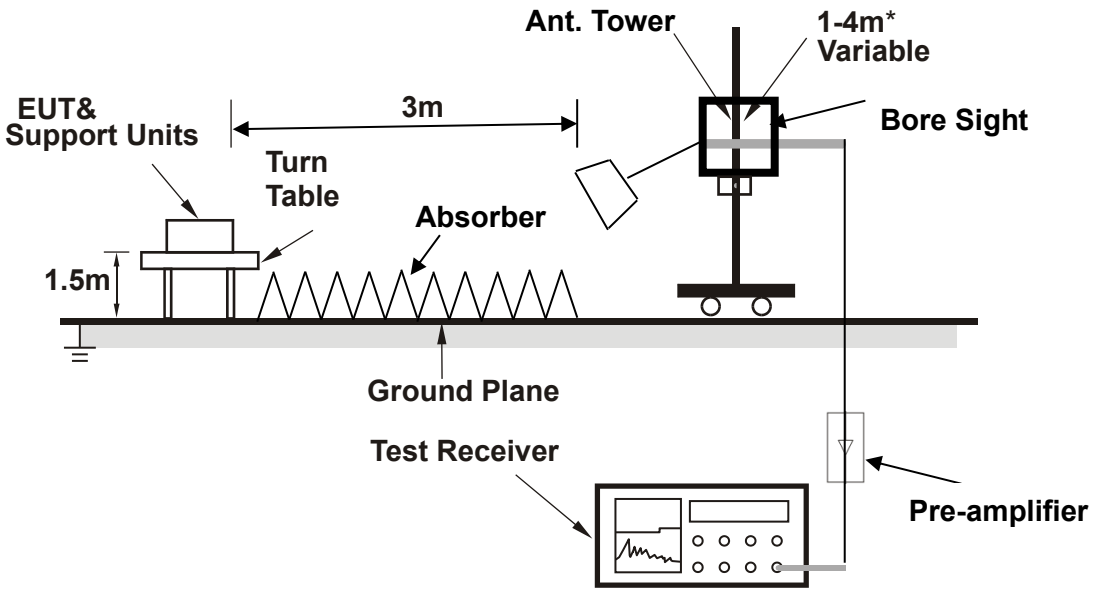
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

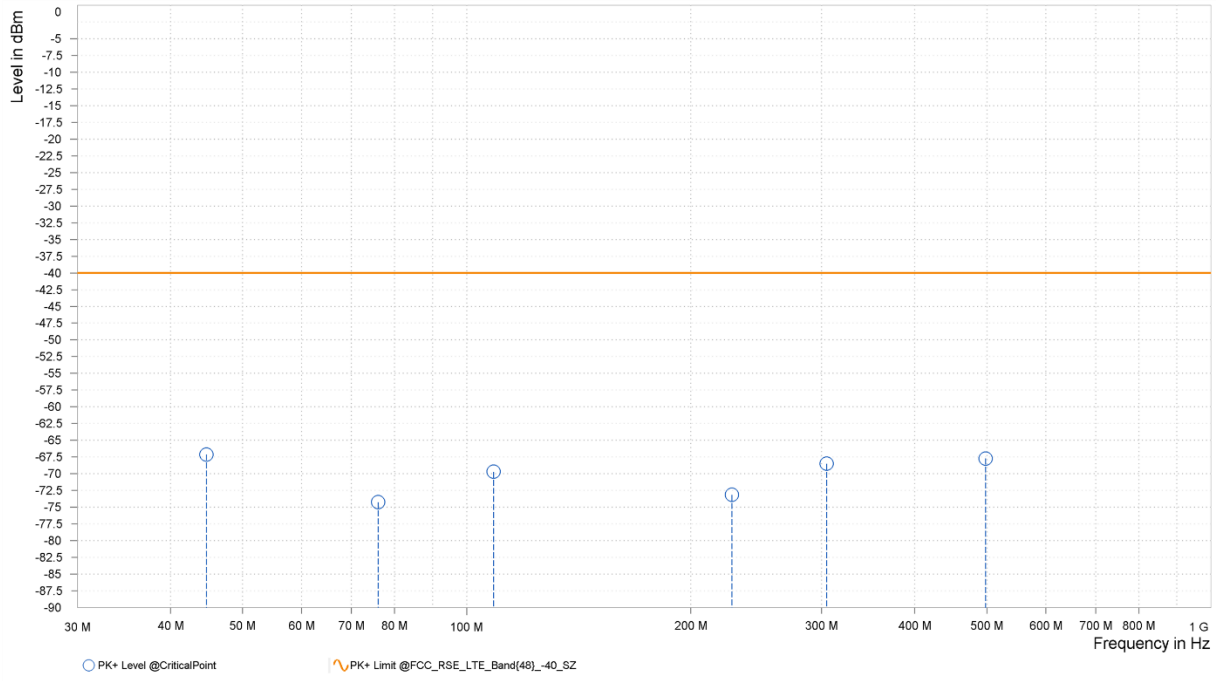
For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.6.5 TEST RESULTS

NOTE： The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA			
LTE Band 40(2350-2360 MHz) CHANNEL BANDWIDTH: 5MHz / QPSK			
MODE	TX channel 39200	**FREQUENCY RANGE**	30 MHz – 1GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V 60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

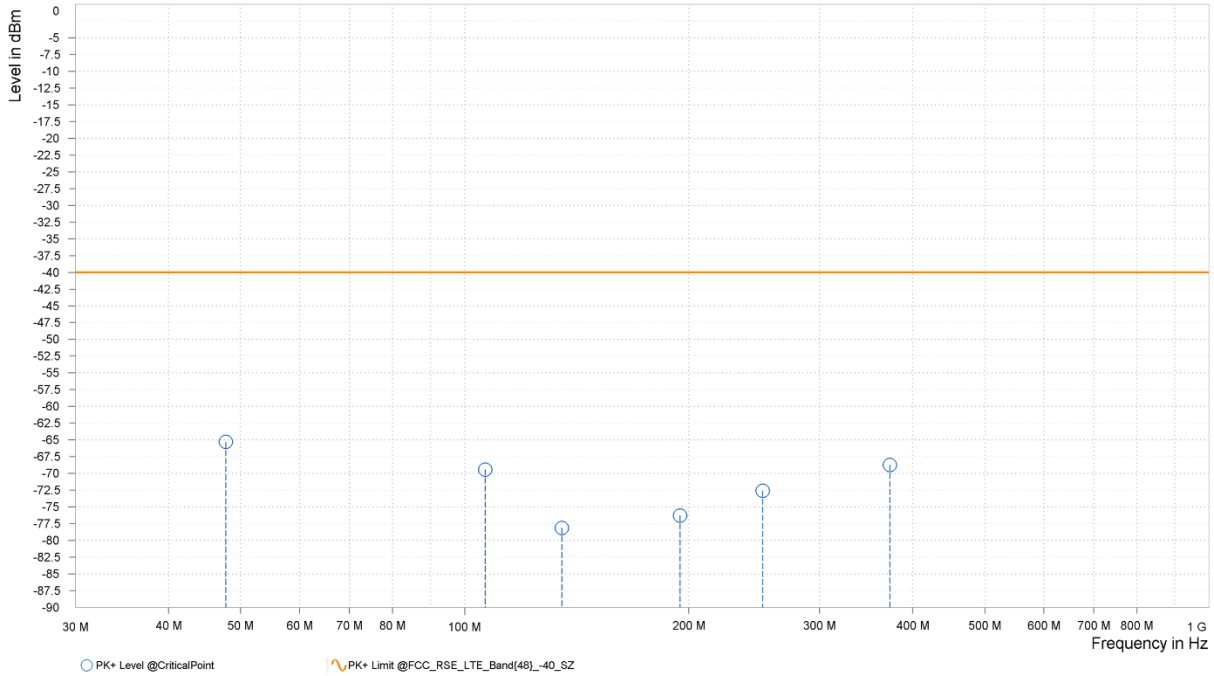
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	44.700	-67.13	-40.00	27.13	3.13	H	359	2.00
1	76.050	-74.25	-40.00	34.25	-3.09	H	0.9	2.00
1	108.650	-69.71	-40.00	29.71	-0.93	H	126.2	2.00
1	227.200	-73.16	-40.00	33.16	2.14	H	24.7	2.00
1	304.500	-68.50	-40.00	28.50	5.50	H	126.2	2.00
2	498.171	-67.73	-40.00	27.73	7.50	H	272	2.00



MODE	TX channel 39200	FREQUENCY RANGE	30 MHz – 1GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	47.750	-65.29	-40.00	25.29	4.57	V	354.2	2.00
1	106.600	-69.42	-40.00	29.42	3.76	V	5.1	1.00
1	135.050	-78.13	-40.00	38.13	-3.51	V	225.5	2.00
1	194.700	-76.28	-40.00	36.28	-0.16	V	132.2	1.00
1	251.450	-72.57	-40.00	32.57	3.51	V	225.5	2.00
1	372.600	-68.74	-40.00	28.74	5.98	V	354.2	1.00



ABOVE 1GHz

Note: For higher frequency, the emission is too low to be detected.

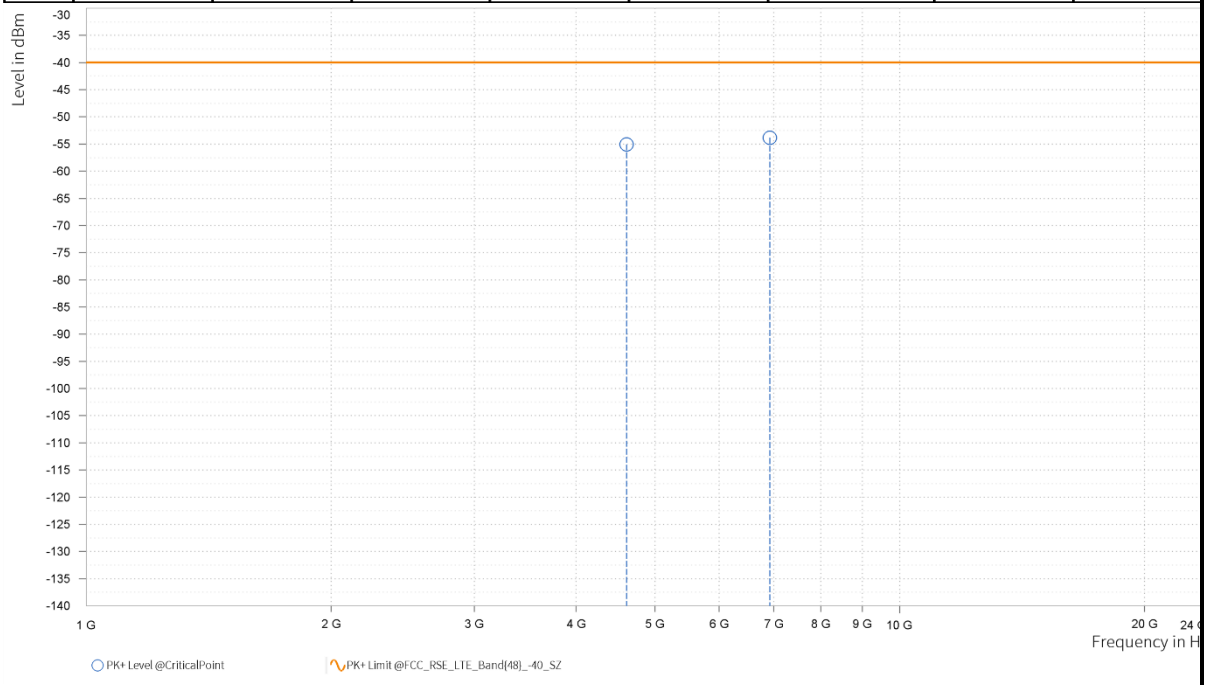
LTE BAND 40(2305-2315 MHz)

CH38750

CHANNEL BANDWIDTH	5MHz / QPSK	**MODE**	TX channel 38725
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

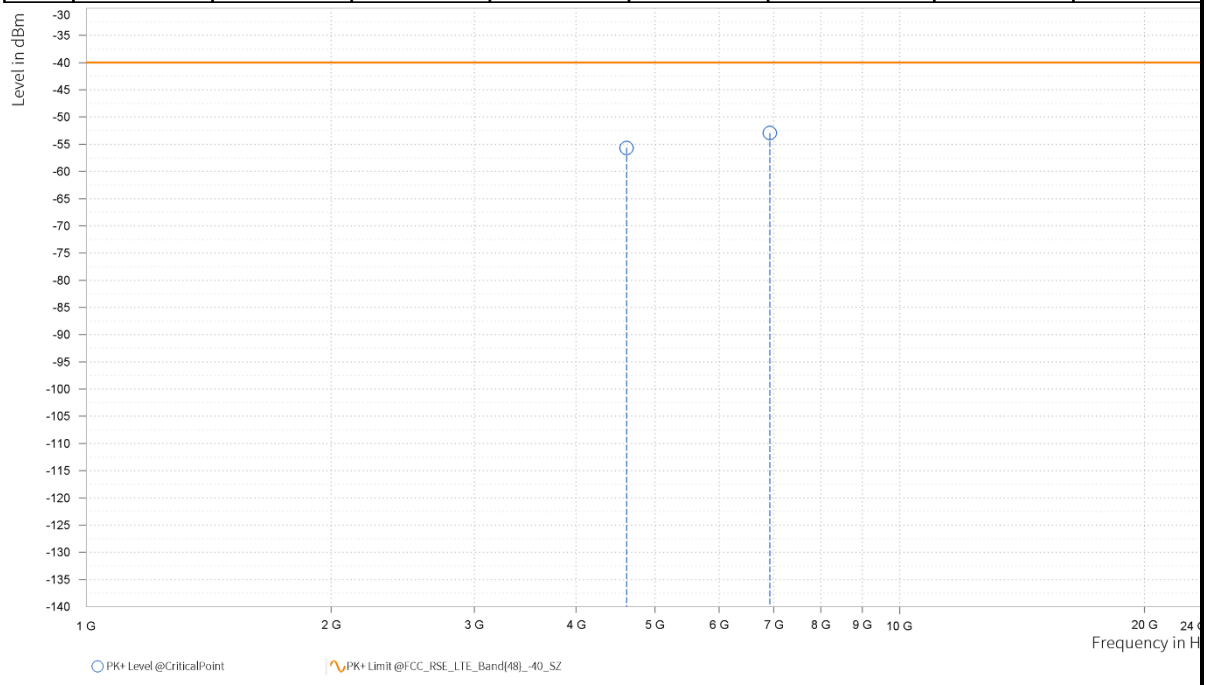
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	4,615.500	-55.04	-40.00	15.04	18.64	H	173.8	1.00
5	6,923.500	-53.82	-40.00	13.82	23.05	H	0.9	2.00



CHANNEL BANDWIDTH	5MHz / QPSK	**MODE**	TX channel 38750
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

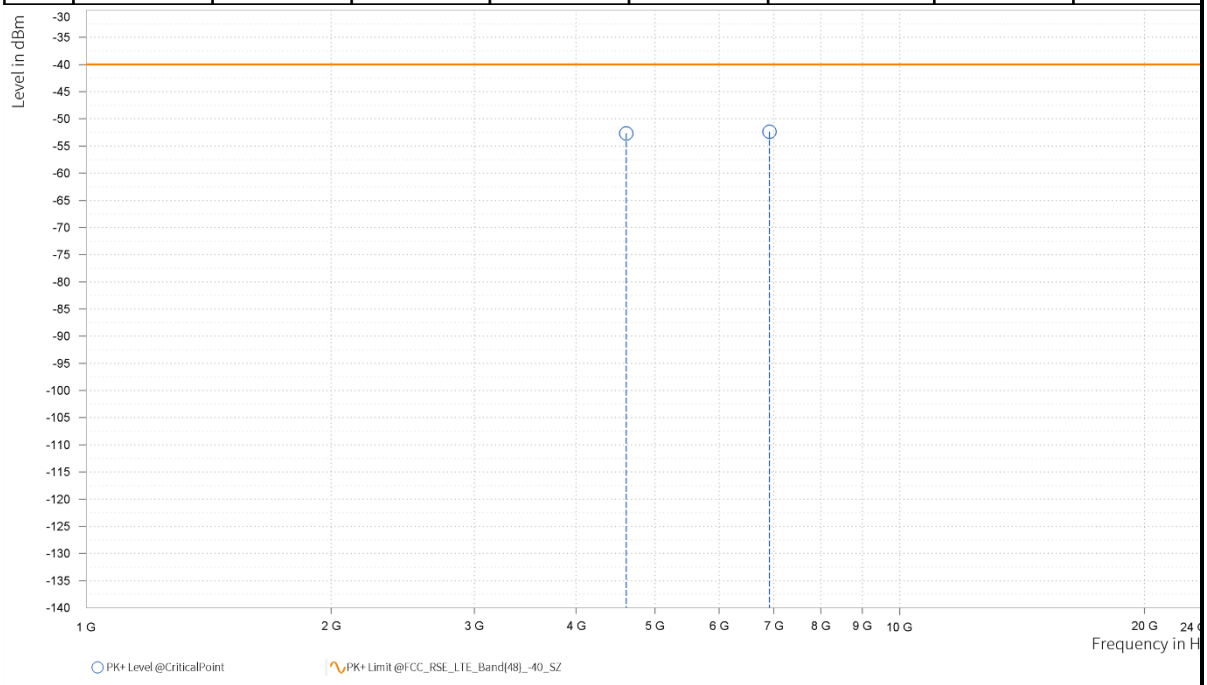
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	4,615.500	-55.68	-40.00	15.68	18.64	V	180.2	2.00
5	6,923.500	-52.94	-40.00	12.94	23.05	V	0.9	2.00



CHANNEL BANDWIDTH	10MHz / QPSK	**MODE**	TX channel 38750
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

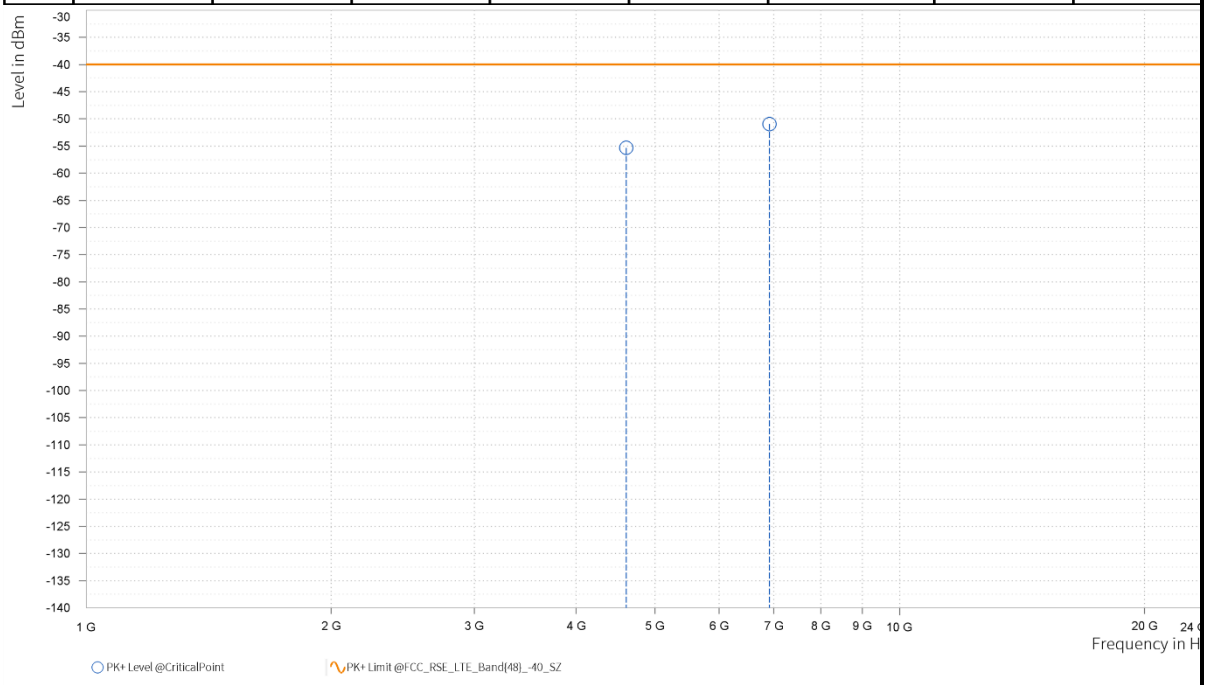
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	4,611.500	-52.67	-40.00	12.67	18.65	H	192.9	1.00
5	6,916.500	-52.37	-40.00	12.37	23.09	H	2.6	2.00



CHANNEL BANDWIDTH	10MHz / QPSK	**MODE**	TX channel 38750
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

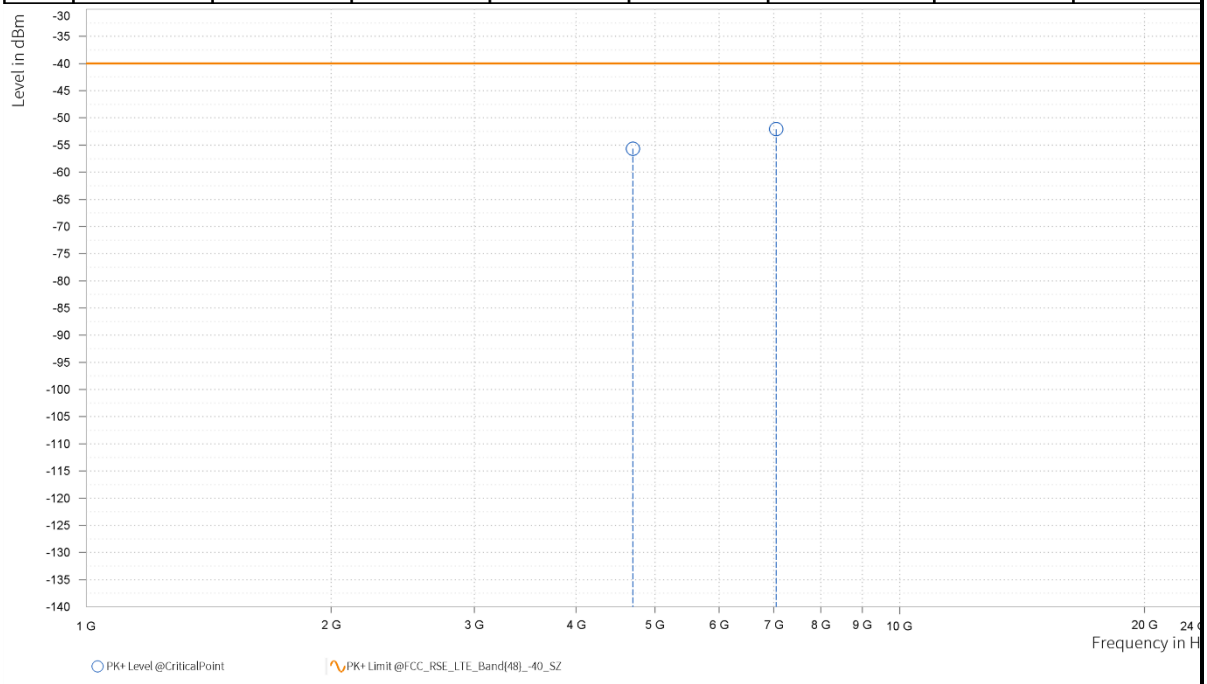
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	4,611.000	-55.32	-40.00	15.32	18.65	V	359.1	1.00
5	6,916.500	-50.94	-40.00	10.94	23.09	V	1	1.00



LTE BAND 40(2350-2360 MHz)			
CH39175			
CHANNEL BANDWIDTH	5MHz / QPSK	**MODE**	TX channel 39175
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

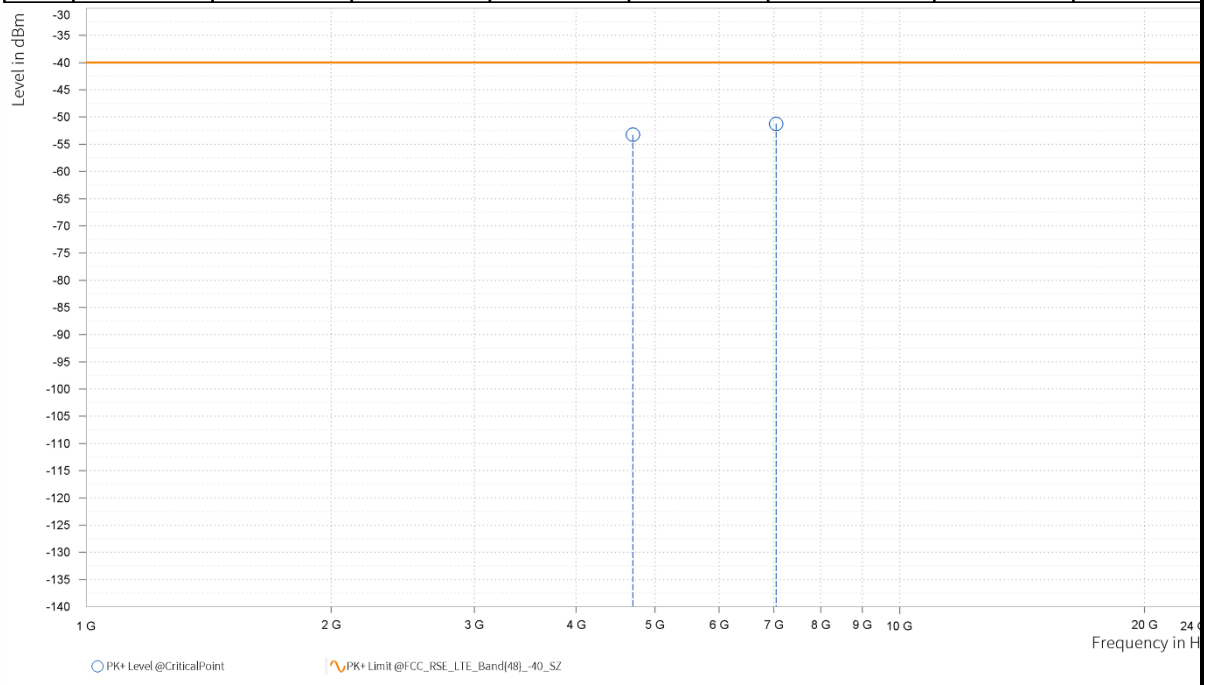
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	4,700.000	-55.67	-40.00	15.67	19.30	H	186.2	2.00
5	7,050.500	-52.07	-40.00	12.07	23.65	H	352.2	1.00



CHANNEL BANDWIDTH	5MHz / QPSK	**MODE**	TX channel 39175
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	4,700.000	-53.24	-40.00	13.24	19.30	V	1	1.00
5	7,050.500	-51.25	-40.00	11.25	23.65	V	1	2.00

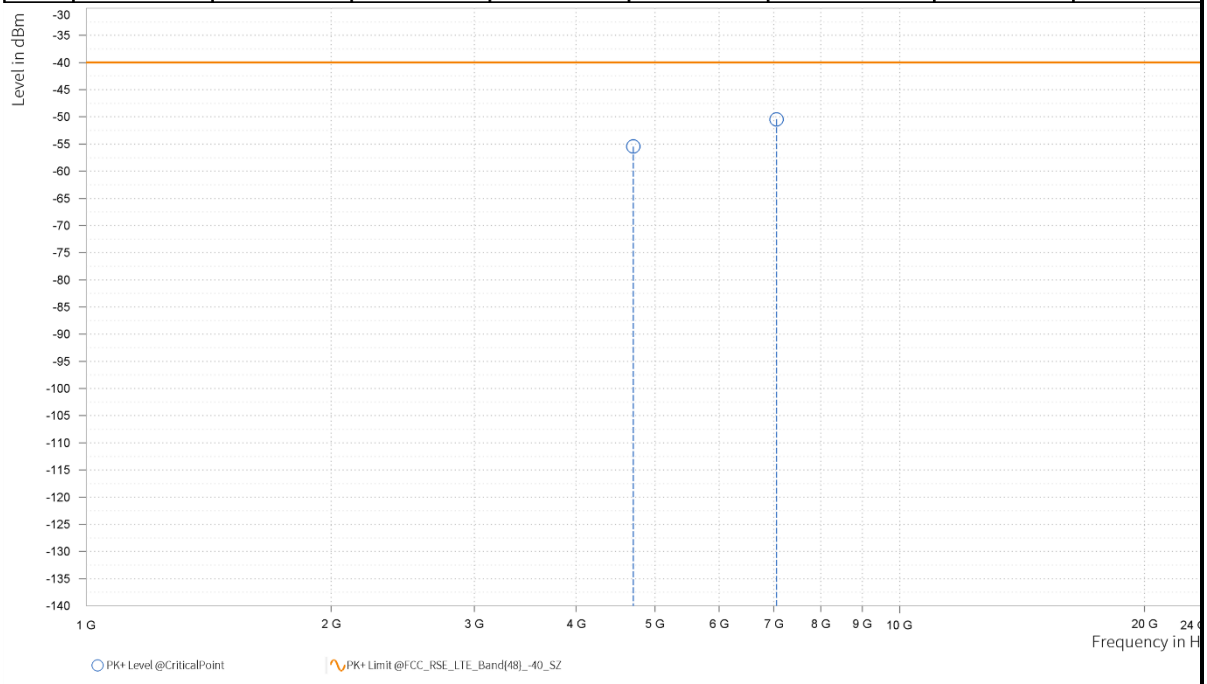


CH39200

CHANNEL BANDWIDTH	5MHz / QPSK	**MODE**	TX channel 39200
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

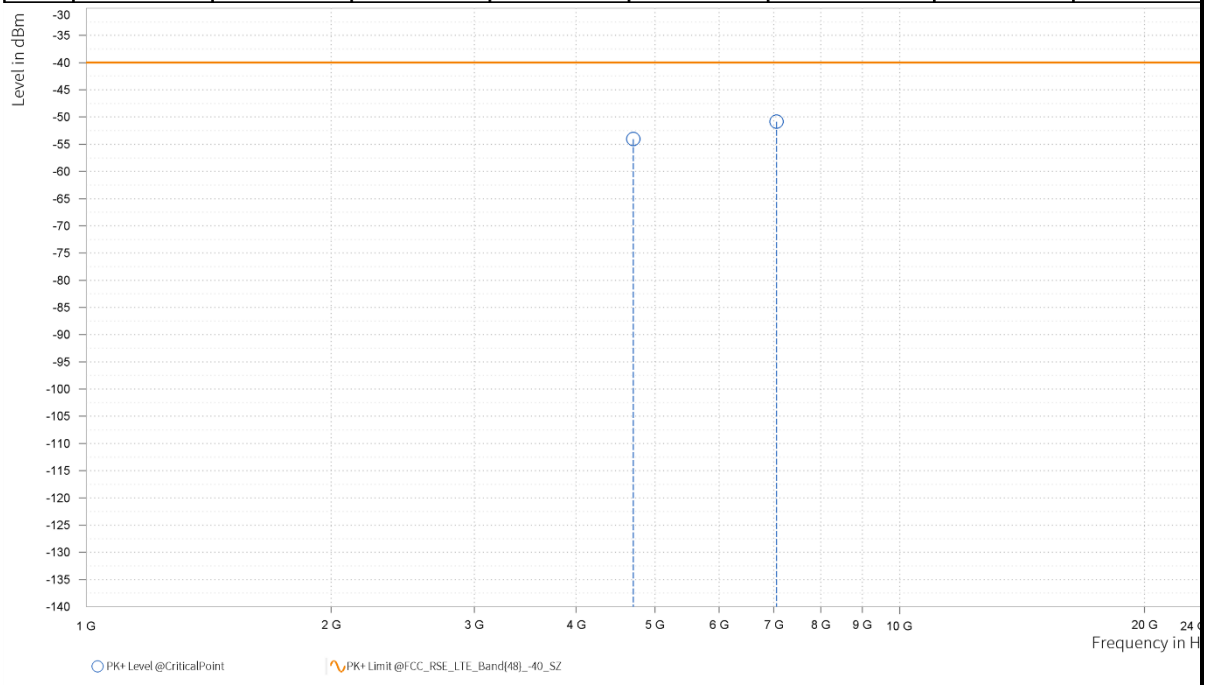
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	4,705.500	-55.44	-40.00	15.44	19.36	H	173.8	1.00
5	7,058.250	-50.44	-40.00	10.44	23.75	H	1	1.00



CHANNEL BANDWIDTH	5MHz / QPSK	**MODE**	TX channel 39200
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	4,705.500	-54.06	-40.00	14.06	19.36	V	359	1.00
5	7,058.250	-50.86	-40.00	10.86	23.75	V	17.8	2.00

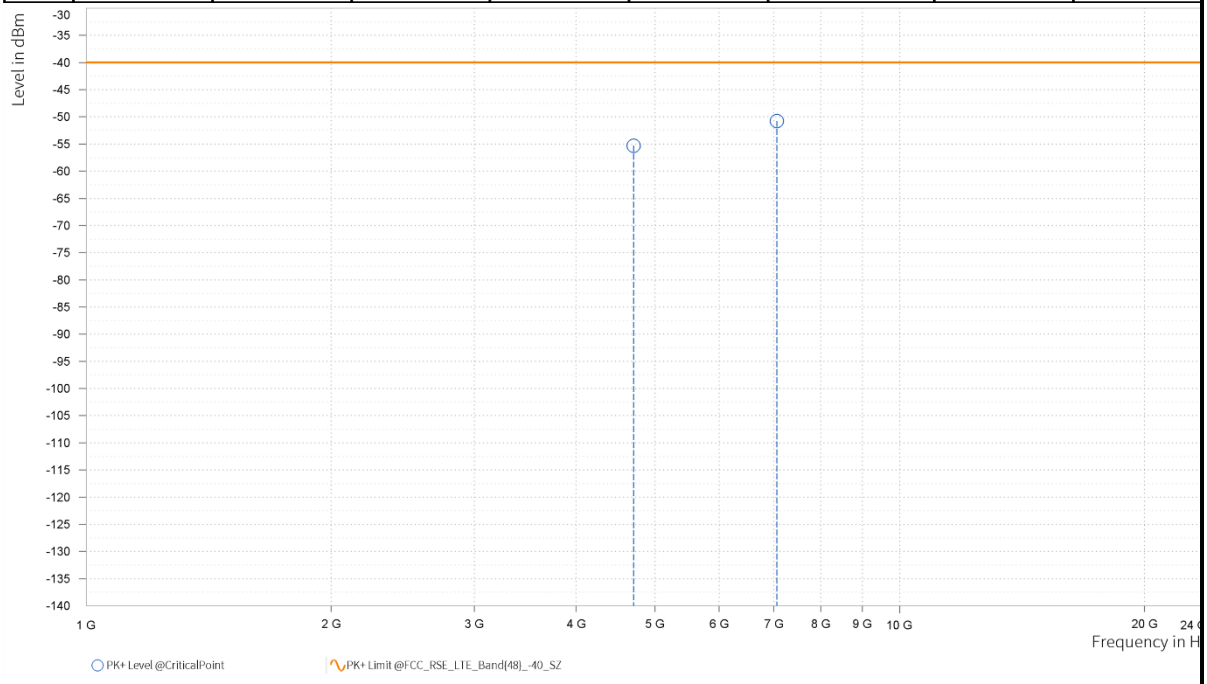


CH39225

CHANNEL BANDWIDTH	5MHz / QPSK	**MODE**	TX channel 39225
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

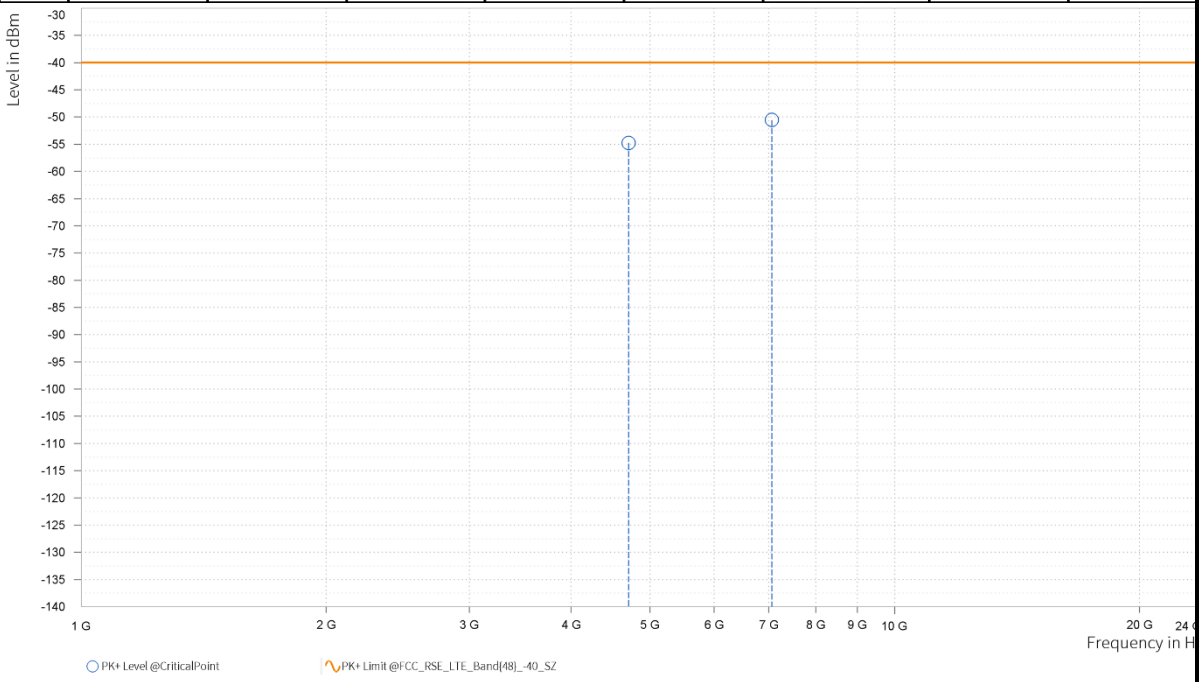
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	4,710.500	-55.29	-40.00	15.29	19.40	H	0.9	2.00
5	7,065.500	-50.75	-40.00	10.75	23.86	H	357	1.00



CHANNEL BANDWIDTH	5MHz / QPSK	**MODE**	TX channel 39225
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

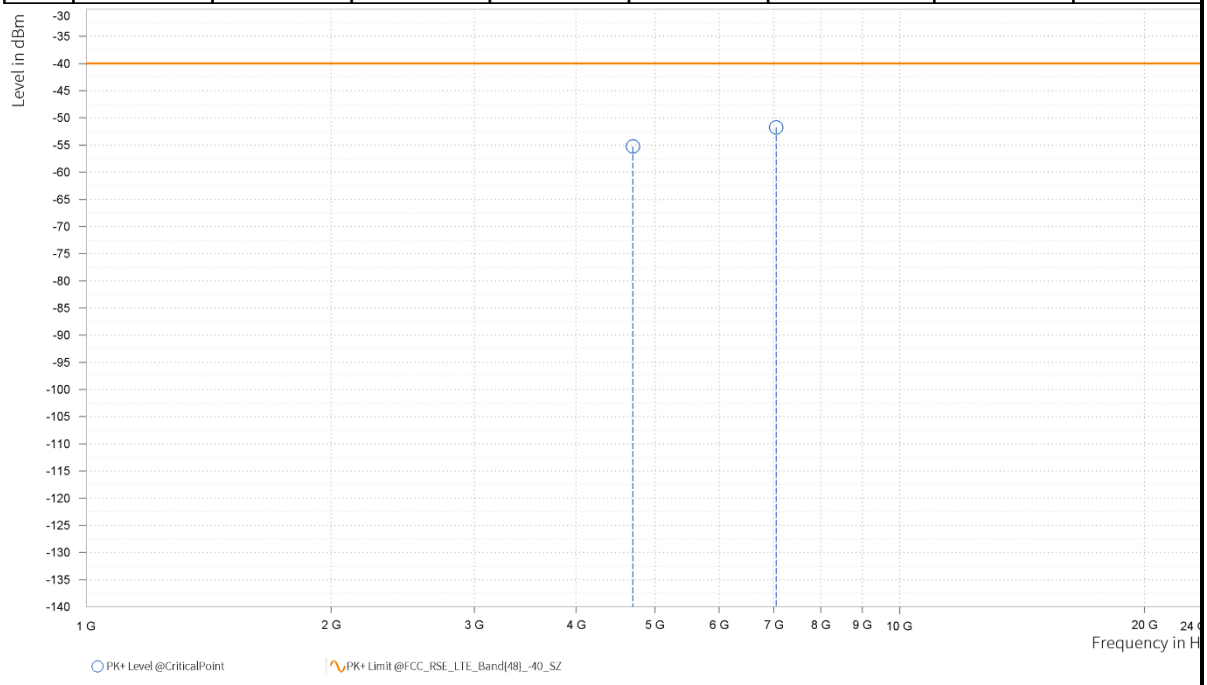
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	4,709.500	-54.74	-40.00	14.74	19.40	V	17.8	2.00
5	7,065.500	-50.56	-40.00	10.56	23.86	V	359	2.00



CHANNEL BANDWIDTH	10MHz / QPSK	**MODE**	TX channel 39200
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

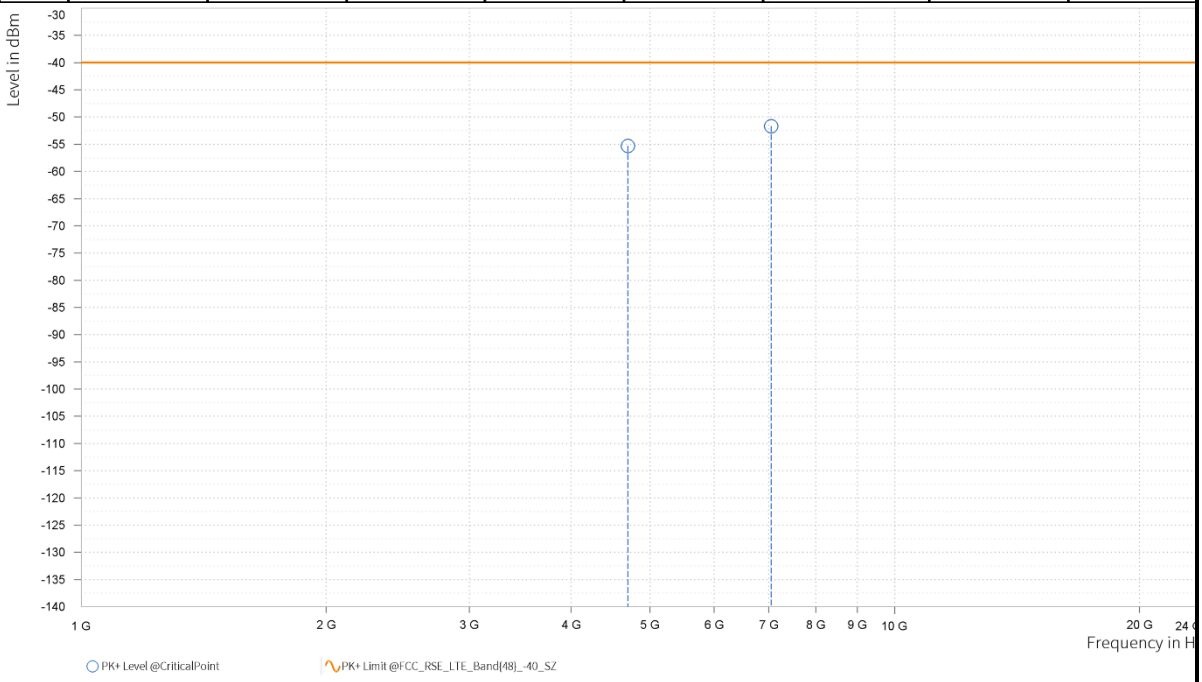
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	4,701.000	-55.26	-40.00	15.26	19.31	H	1	1.00
5	7,051.500	-51.73	-40.00	11.73	23.66	H	359	2.00



CHANNEL BANDWIDTH	10MHz / QPSK	**MODE**	TX channel 39200
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	4,701.000	-55.31	-40.00	15.31	19.31	V	0.9	2.00
5	7,051.500	-51.68	-40.00	11.68	23.66	V	359	1.00

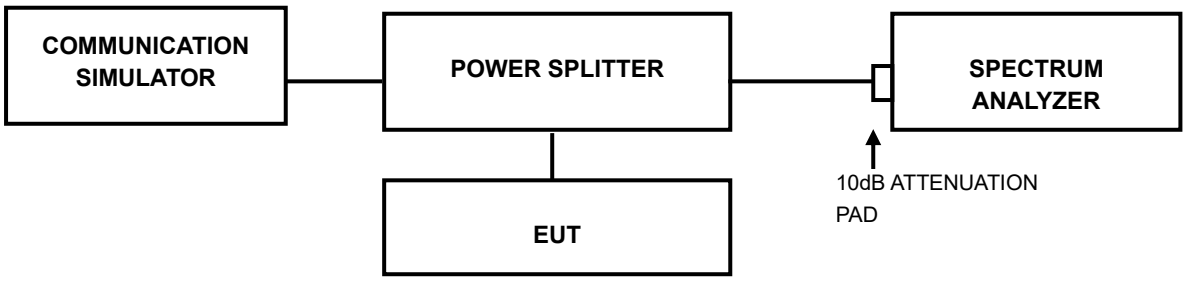


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.

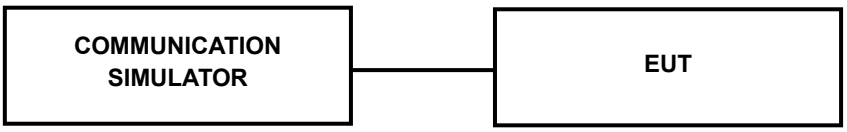
3.8 DUTY CYCLE

3.8.1 LIMITS OF DUTY CYCLE

Part 27.50(a)(3)

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.

3.8.2 TEST SETUP



3.8.3 TEST PROCEDURES

1. Off times of the transmitted signal.
2. The zero-span mode on a spectrum analyzer if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

3.8.4 TEST RESULTS

Please Refer to Appendix Of this test report.

4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Huarui 7Layers High Technology (Suzhou) Co., Ltd.
Lab Address:
Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China
Accredited Test Lab Cert 6613.01

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:
Tel: +86 (0557) 368 1008

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

6 Appendix

LTE BAND 40(2305-2315 MHZ)

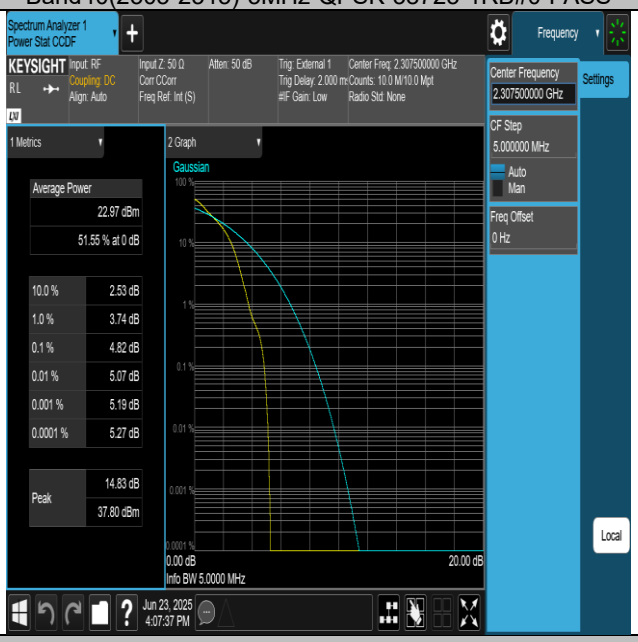
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

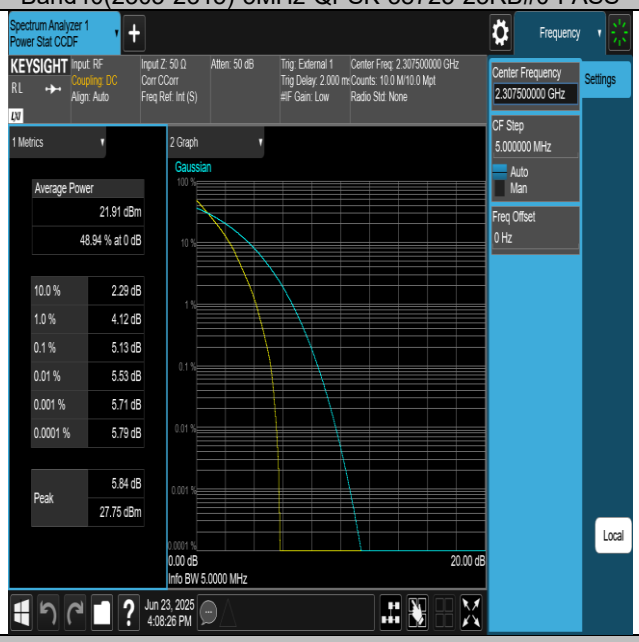
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band40(2305-2315)	5MHz	QPSK	38725	1RB#0	4.82	13	PASS
Band40(2305-2315)	5MHz	QPSK	38725	25RB#0	5.13	13	PASS
Band40(2305-2315)	5MHz	QPSK	38750	1RB#0	4.94	13	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	5.21	13	PASS
Band40(2305-2315)	5MHz	QPSK	38775	1RB#0	4.20	13	PASS
Band40(2305-2315)	5MHz	QPSK	38775	25RB#0	5.12	13	PASS
Band40(2305-2315)	5MHz	16QAM	38725	1RB#0	5.00	13	PASS
Band40(2305-2315)	5MHz	16QAM	38725	25RB#0	5.67	13	PASS
Band40(2305-2315)	5MHz	16QAM	38750	1RB#0	5.46	13	PASS
Band40(2305-2315)	5MHz	16QAM	38750	25RB#0	5.88	13	PASS
Band40(2305-2315)	5MHz	16QAM	38775	1RB#0	5.49	13	PASS
Band40(2305-2315)	5MHz	16QAM	38775	25RB#0	5.71	13	PASS
Band40(2305-2315)	10MHz	QPSK	38750	1RB#0	4.19	13	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	5.16	13	PASS
Band40(2305-2315)	10MHz	16QAM	38750	1RB#0	5.54	13	PASS
Band40(2305-2315)	10MHz	16QAM	38750	27RB#0	5.70	13	PASS

Test Graphs

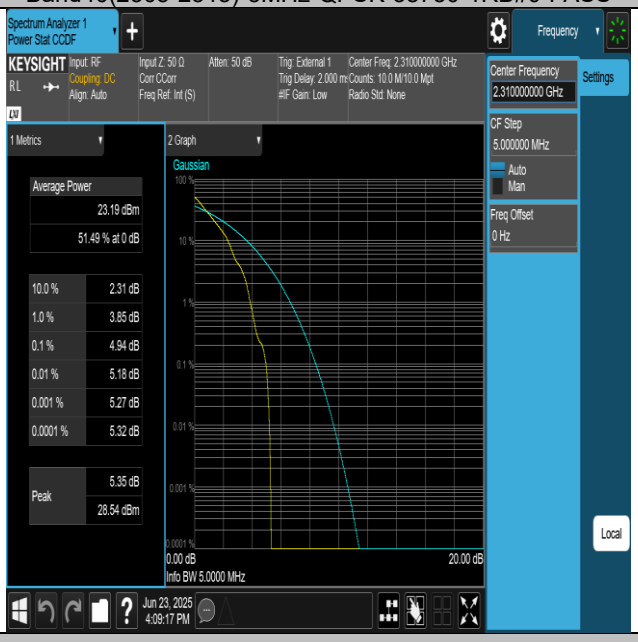
Band40(2305-2315)-5MHz-QPSK-38725-1RB#0-PASS



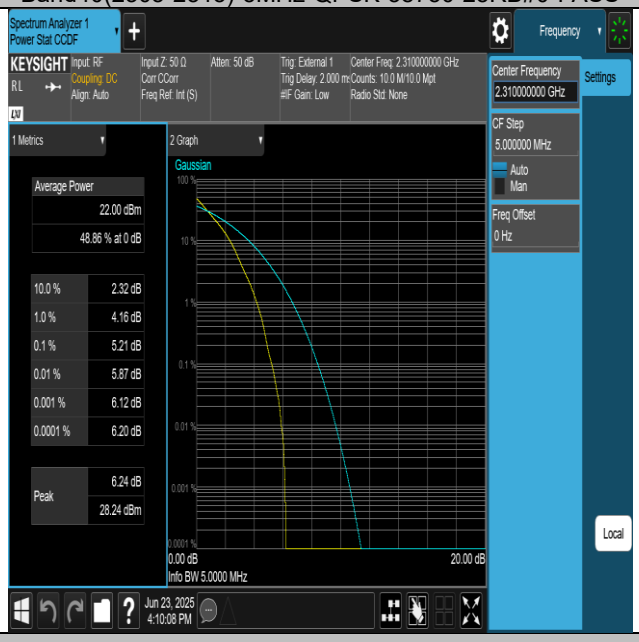
Band40(2305-2315)-5MHz-QPSK-38725-25RB#0-PASS



Band40(2305-2315)-5MHz-QPSK-38750-1RB#0-PASS

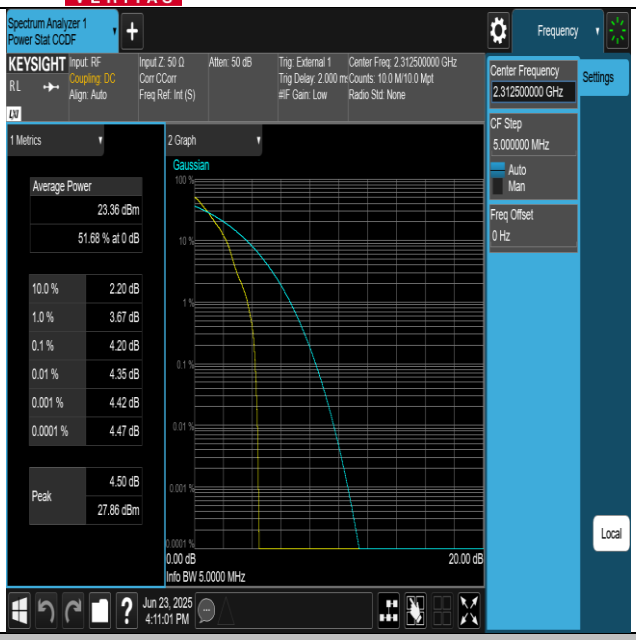


Band40(2305-2315)-5MHz-QPSK-38750-25RB#0-PASS

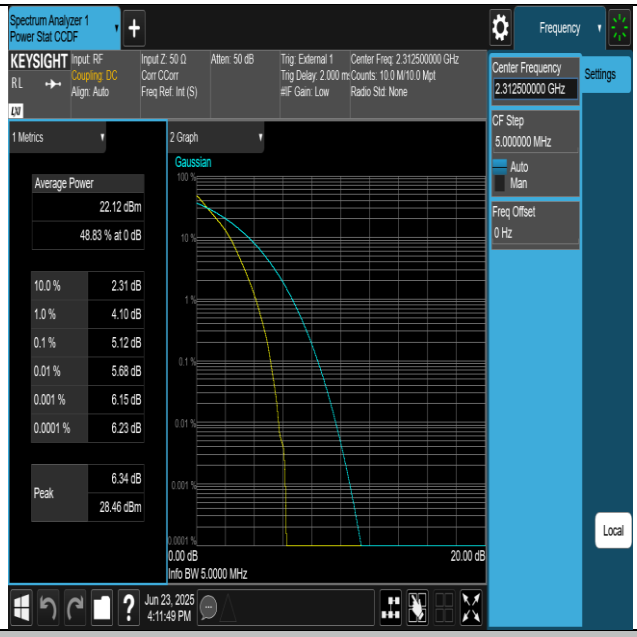


Band40(2305-2315)-5MHz-QPSK-38775-1RB#0-PASS

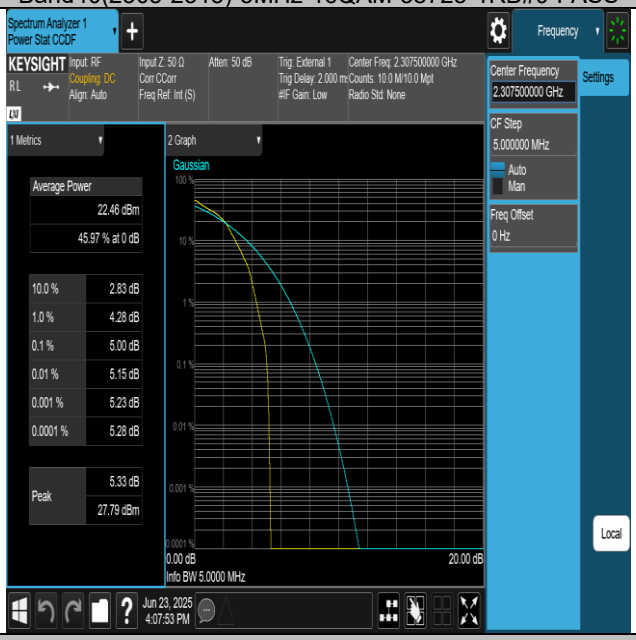
Band40(2305-2315)-5MHz-QPSK-38775-25RB#0-PASS



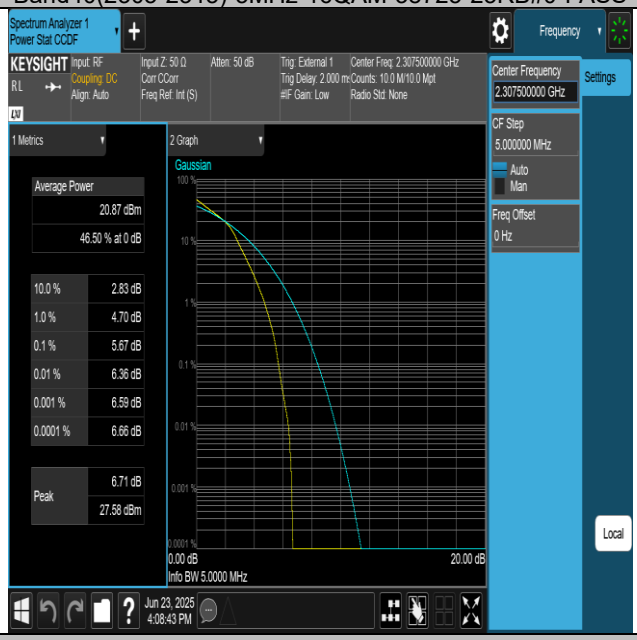
Band40(2305-2315)-5MHz-16QAM-38725-1RB#0-PASS



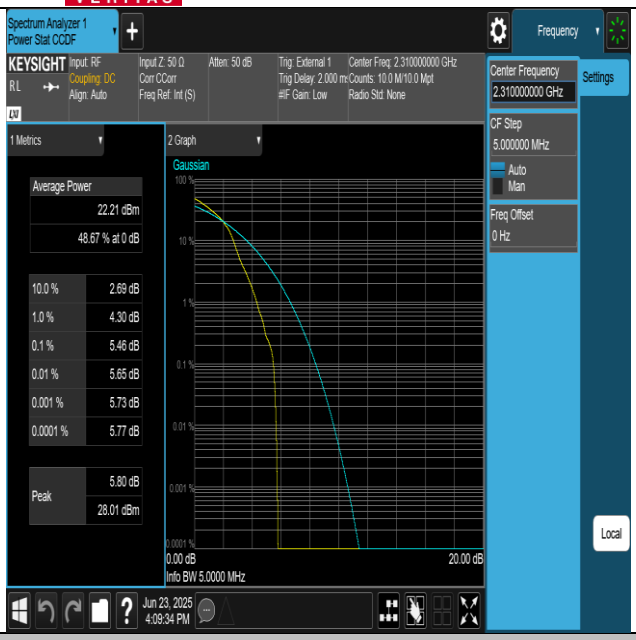
Band40(2305-2315)-5MHz-16QAM-38725-25RB#0-PASS



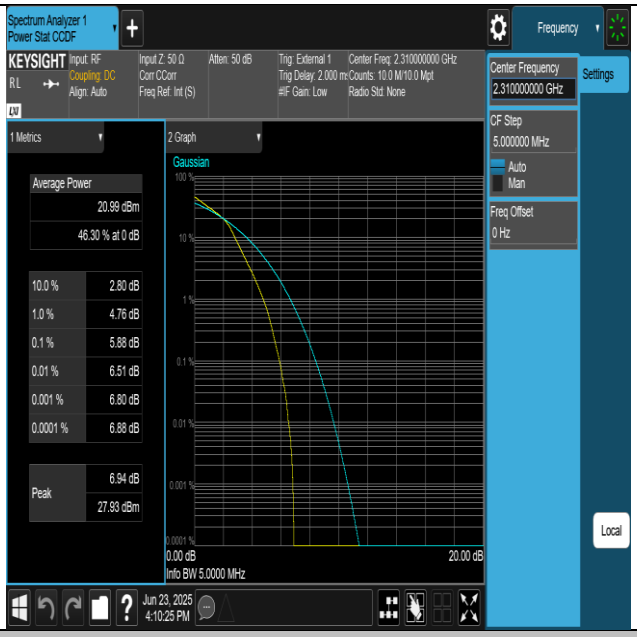
Band40(2305-2315)-5MHz-16QAM-38750-1RB#0-PASS



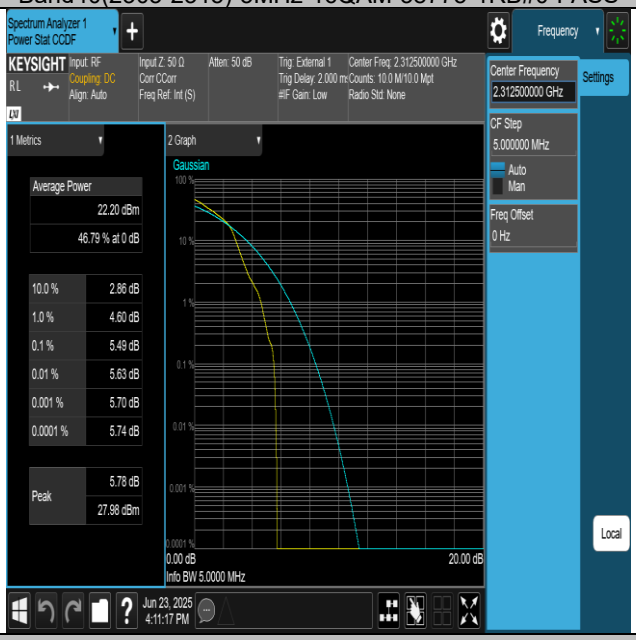
Band40(2305-2315)-5MHz-16QAM-38750-25RB#0-PASS



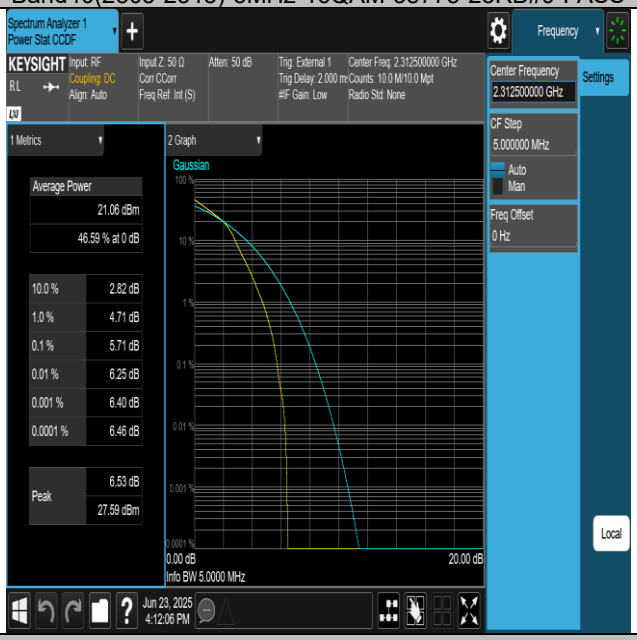
Band40(2305-2315)-5MHz-16QAM-38775-1RB#0-PASS



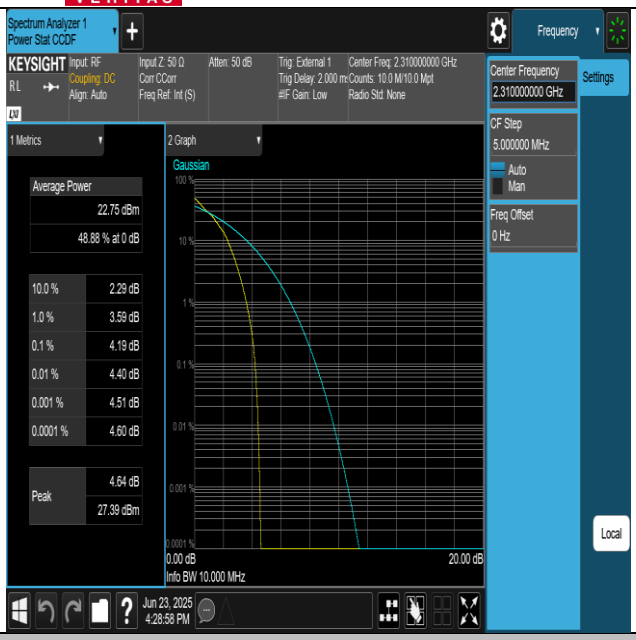
Band40(2305-2315)-5MHz-16QAM-38775-25RB#0-PASS



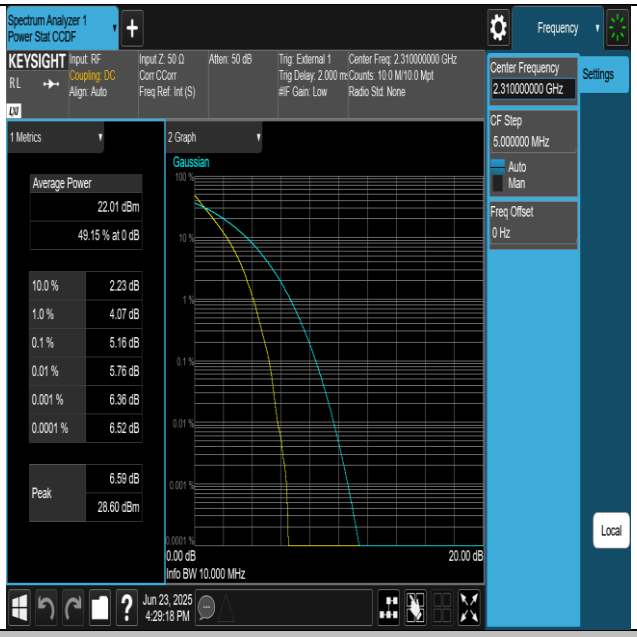
Band40(2305-2315)-10MHz-QPSK-38750-1RB#0-PASS



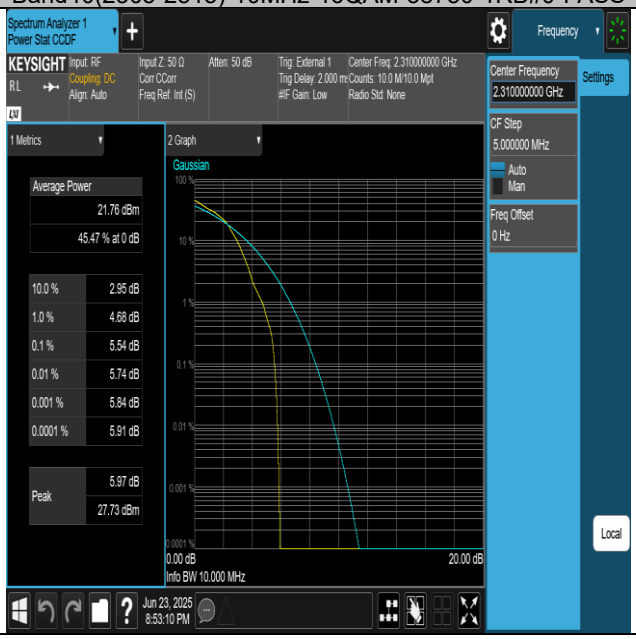
Band40(2305-2315)-10MHz-QPSK-38750-50RB#0-PASS



Band40(2305-2315)-10MHz-16QAM-38750-1RB#0-PASS



Band40(2305-2315)-10MHz-16QAM-38750-27RB#0-PASS



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band40(2305-2315)	5MHz	QPSK	38725	25RB#0	4.5043	4.852	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	4.4958	4.873	PASS
Band40(2305-2315)	5MHz	QPSK	38775	25RB#0	4.5013	4.824	PASS
Band40(2305-2315)	5MHz	16QAM	38725	25RB#0	4.4917	5.054	PASS
Band40(2305-2315)	5MHz	16QAM	38750	25RB#0	4.5002	4.824	PASS
Band40(2305-2315)	5MHz	16QAM	38775	25RB#0	4.5130	4.967	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	8.9709	9.629	PASS
Band40(2305-2315)	10MHz	16QAM	38750	27RB#0	4.9095	6.471	PASS

Test Graphs

Band40(2305-2315)-5MHz-QPSK-38725-25RB#0-PASS

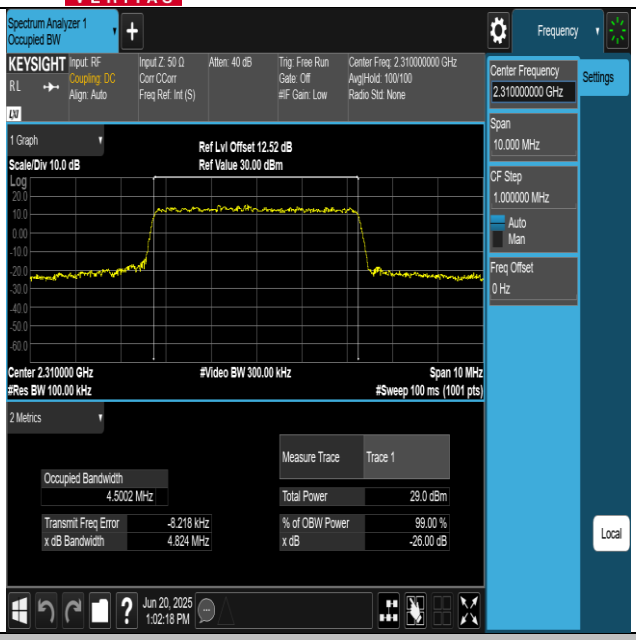
Band40(2305-2315)-5MHz-QPSK-38750-25RB#0-PASS

Band40(2305-2315)-5MHz-QPSK-38775-25RB#0-PASS

Band40(2305-2315)-5MHz-16QAM-38725-25RB#0-PASS

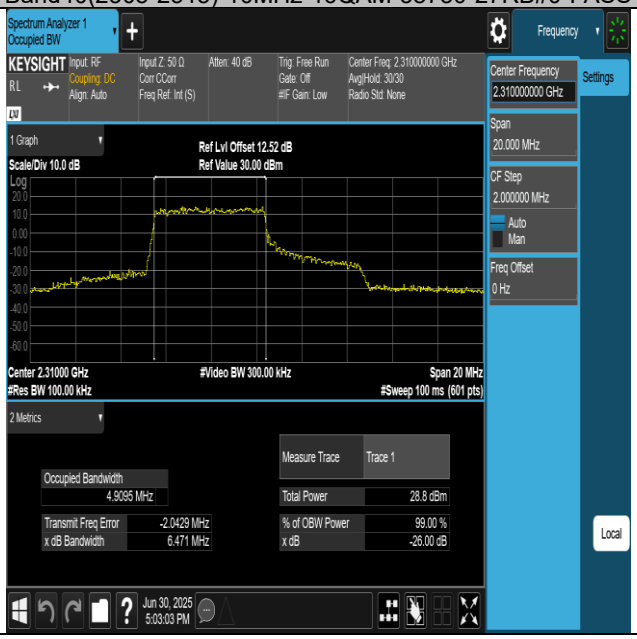
Band40(2305-2315)-5MHz-16QAM-38750-25RB#0-PASS

Band40(2305-2315)-5MHz-16QAM-38775-25RB#0-PASS



Band40(2305-2315)-10MHz-QPSK-38750-50RB#0-PASS

Band40(2305-2315)-10MHz-16QAM-38750-27RB#0-PASS



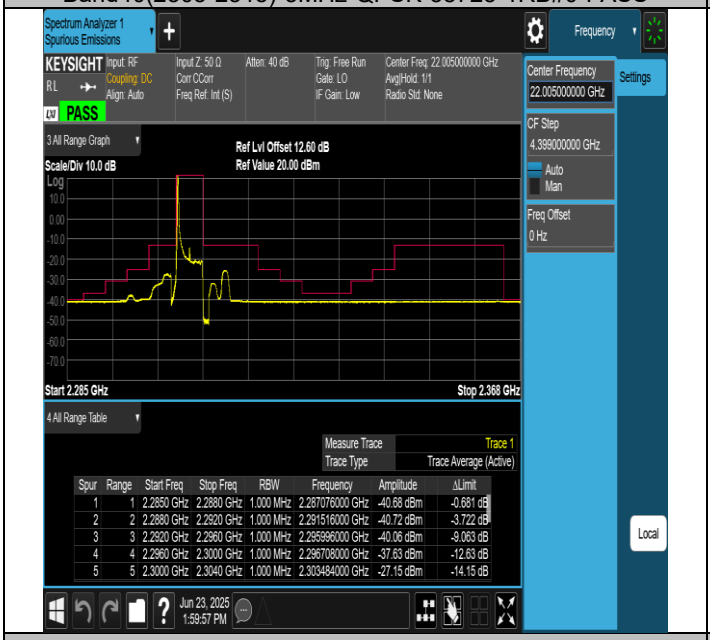
BAND EDGE

Test Result

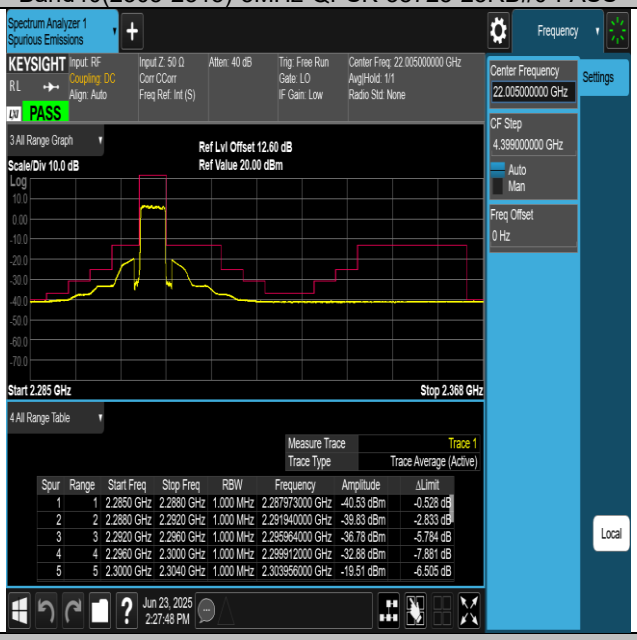
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40(2305-2315)	5MHz	QPSK	38725	1RB#0	-40.68	PASS
Band40(2305-2315)	5MHz	QPSK	38725	25RB#0	-40.53	PASS
Band40(2305-2315)	5MHz	QPSK	38775	1RB#24	-40.67	PASS
Band40(2305-2315)	5MHz	QPSK	38775	25RB#0	-40.73	PASS
Band40(2305-2315)	5MHz	16QAM	38725	1RB#0	-40.66	PASS
Band40(2305-2315)	5MHz	16QAM	38725	25RB#0	-40.70	PASS
Band40(2305-2315)	5MHz	16QAM	38775	1RB#24	-40.71	PASS
Band40(2305-2315)	5MHz	16QAM	38775	25RB#0	-40.72	PASS
Band40(2305-2315)	10MHz	QPSK	38750	1RB#0	-58.84	PASS
Band40(2305-2315)	10MHz	QPSK	38750	1RB#49	-58.89	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	-58.94	PASS
Band40(2305-2315)	10MHz	16QAM	38750	1RB#0	-58.98	PASS
Band40(2305-2315)	10MHz	16QAM	38750	1RB#49	-58.46	PASS
Band40(2305-2315)	10MHz	16QAM	38750	27RB#0	-40.46	PASS
Band40(2305-2315)	10MHz	16QAM	38750	27RB#23	-44.25	PASS

Test Graphs

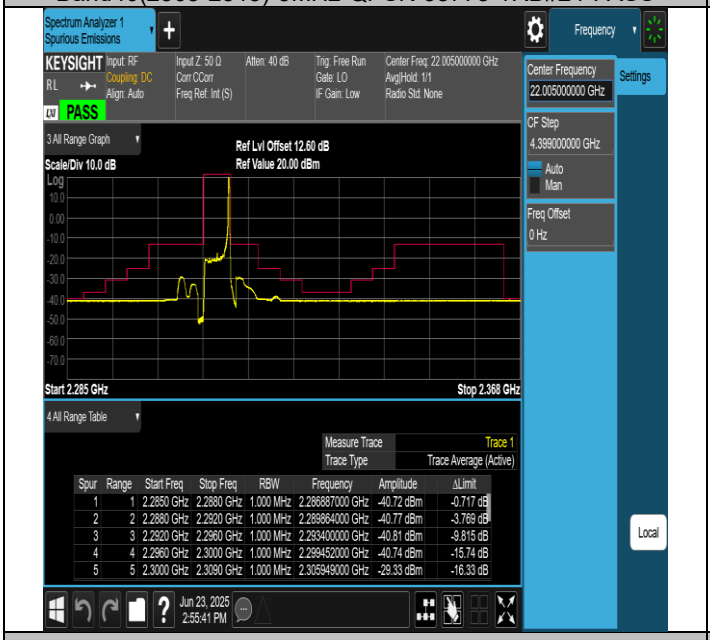
Band40(2305-2315)-5MHz-QPSK-38725-1RB#0-PASS



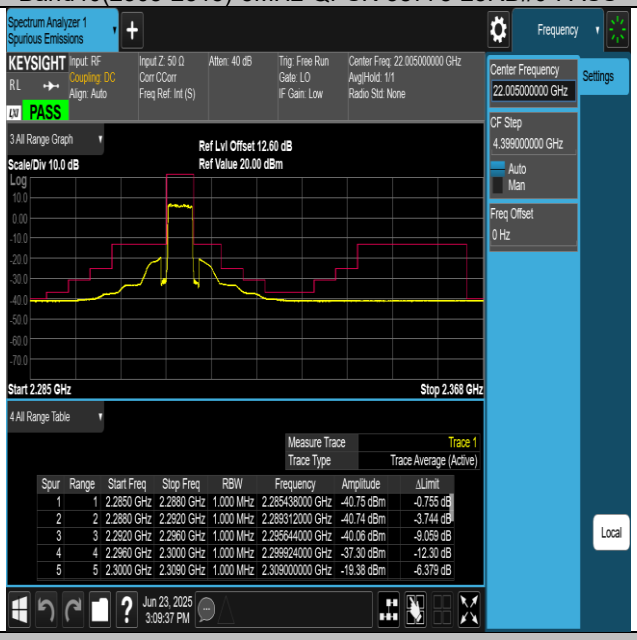
Band40(2305-2315)-5MHz-QPSK-38725-25RB#0-PASS



Band40(2305-2315)-5MHz-QPSK-38775-1RB#24-PASS

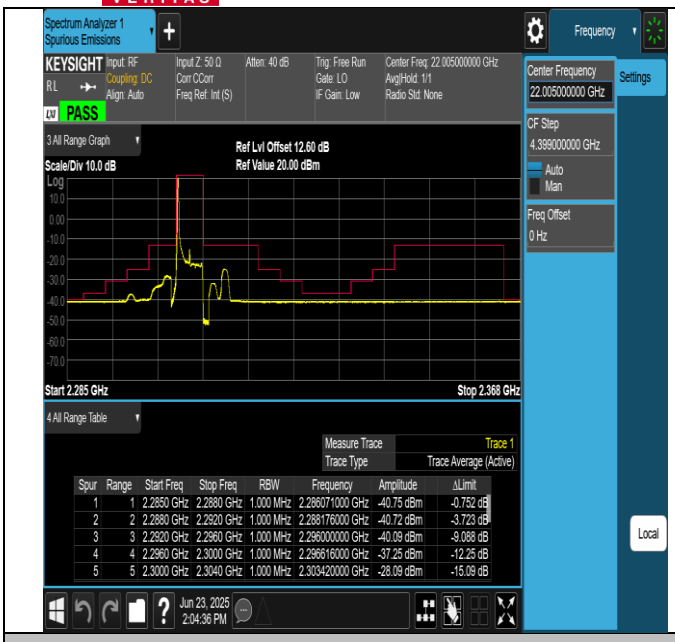


Band40(2305-2315)-5MHz-QPSK-38775-25RB#0-PASS



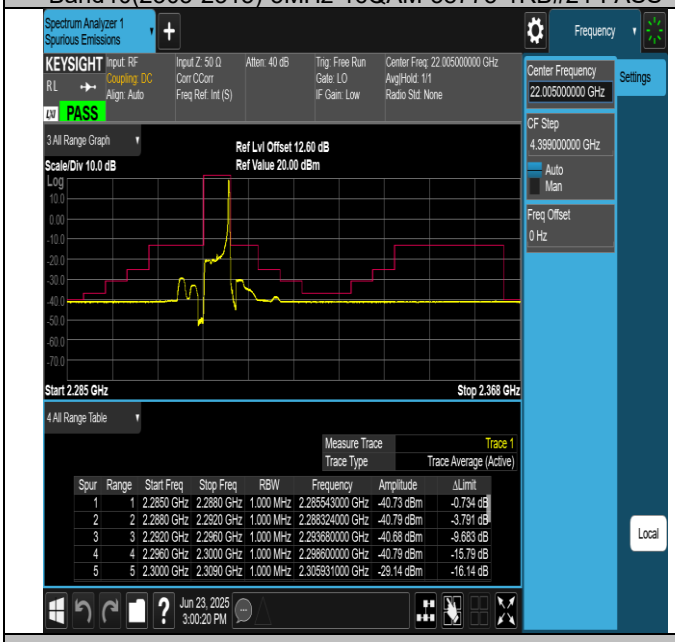
Band40(2305-2315)-5MHz-16QAM-38725-1RB#0-PASS

Band40(2305-2315)-5MHz-16QAM-38725-25RB#0-PASS

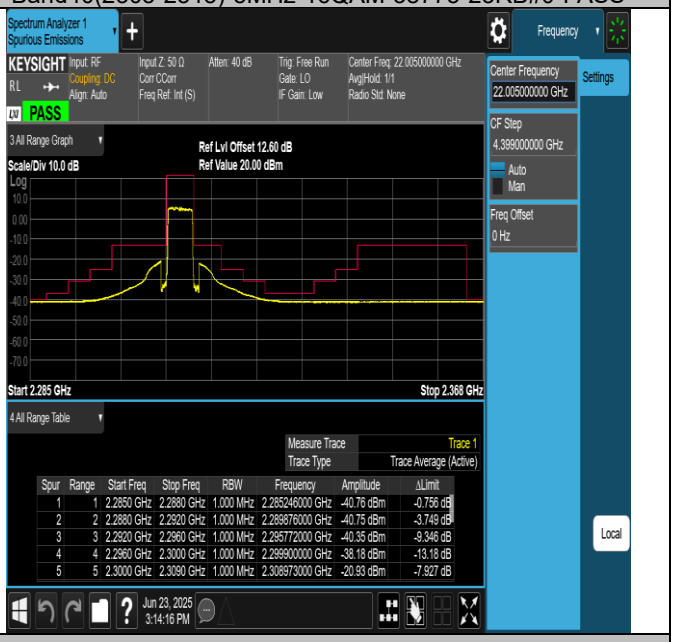


Band40(2305-2315)-5MHz-16QAM-38775-1RB#24-PASS

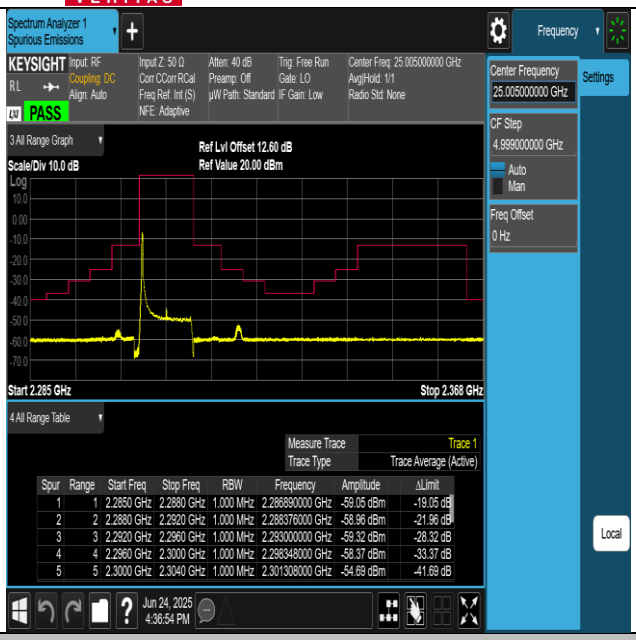
Band40(2305-2315)-5MHz-16QAM-38775-25RB#0-PASS



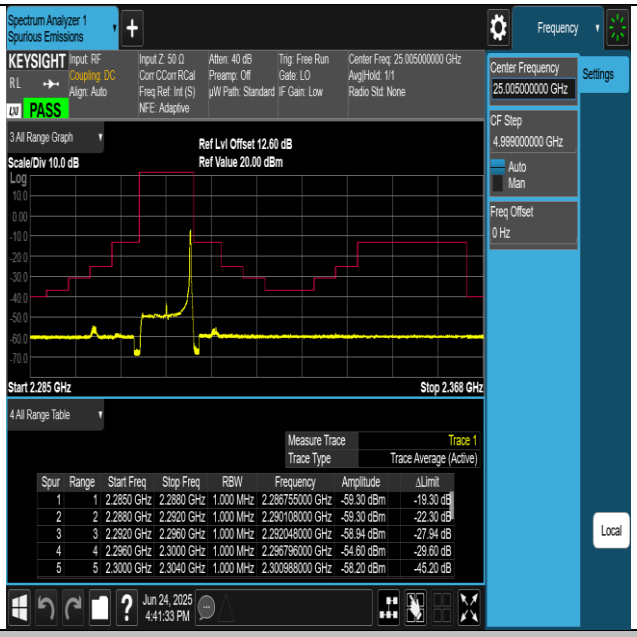
Band40(2305-2315)-10MHz-QPSK-38750-1RB#0-PASS



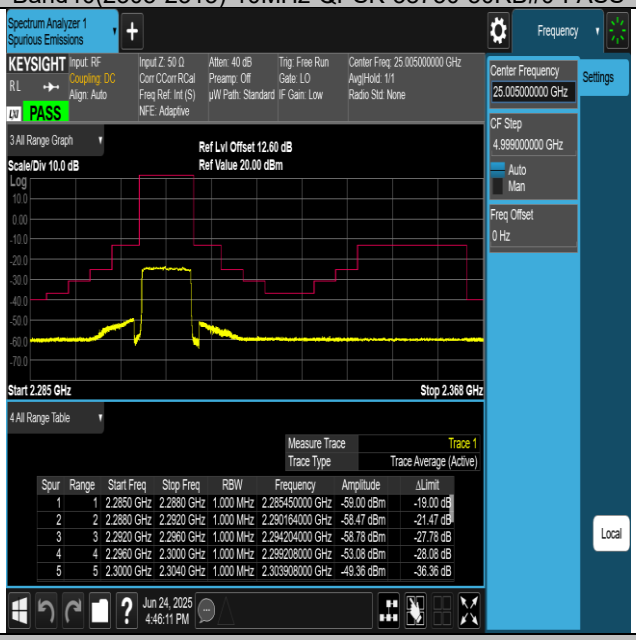
Band40(2305-2315)-10MHz-QPSK-38750-1RB#49-PASS



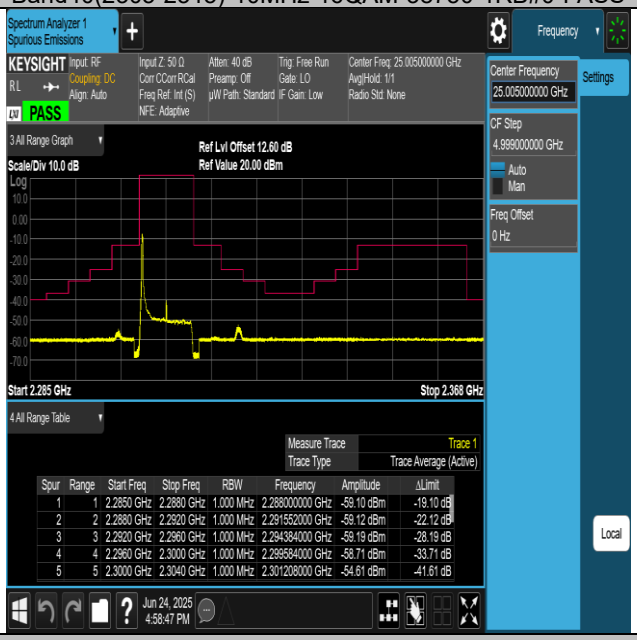
Band40(2305-2315)-10MHz-QPSK-38750-50RB#0-PASS



Band40(2305-2315)-10MHz-16QAM-38750-1RB#0-PASS



Band40(2305-2315)-10MHz-16QAM-38750-1RB#49-PASS



Band40(2305-2315)-10MHz-16QAM-38750-27RB#0-PASS