FCC TEST REPORT

(PART 24)

Applicant:	Thundercomm Technology Co., Ltd.
Address:	No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122

Manufacturer or Supplier:	Thundercomm Technology Co., Ltd.
Address:	No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122
Product:	Edge AI Station
Brand Name:	Thundercomm
Model Name:	EB5S
FCC ID:	2AOHHEB5S
Date of tests:	Sep. 09, 2023 ~ Oct. 31, 2023

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

☒ **FCC PART 24, Subpart E** ☒ **FCC PART 2**
☒ **ANSI/TIA/EIA-603-D** ☒ **ANSI/TIA/EIA-603-E** ☒ **ANSI C63.26-2015**

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

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
Simon Wang Date: Oct. 31, 2023	Luke Lu Date: Oct. 31, 2023

TABLE OF CONTENTS

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P23070010RF02	Original release	Oct. 31, 2023

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 24 & Part 2		
STANDARD SECTION	**TEST TYPE**	**RESULT**
§2.1046	Conducted Output Power	See Note1
§24.232(c)	Equivalent Isotropic Radiated Power	Compliance
§2.1055 §24.235	Frequency Stability	See Note1
§2.1049	Occupied Bandwidth	See Note1
§24.232(d)	Peak to average ratio	See Note1
§24.238(a)(b)	Band Edge Measurements	See Note1
§2.1051 §24.238(a)(b)	Conducted Spurious Emissions	See Note1
§2.1053 §24.238(a)(b)	Radiated Spurious Emissions	Compliance See Note2

Note:

1. Please refer to the module report SEWA2204000008RG01(FCC ID: XMR2022RM520NGL)
2. For Inter-CA band, the EUT had been tested with all combinations, the report only shows the worst case RSE mode data.

1.1 MEASUREMENT 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
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 Output power	±2.06dB

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

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,22	Aug.29,24
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Vector Signal Generator	R&S	SMBV100B	102176	Feb.16,22	Feb.15,24
Signal Generator	R&S	SMB100A	182185	Feb.16,22	Feb.15,24
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	Feb.25,22	Feb.24,24
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,22	Feb.27,24
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,22	Feb.22,24
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,22	Feb.22,24
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24
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	Oct.01,22	Sep.30,24
DC Source	HYELEC	HY3010B	551016	Aug.31,22	Aug.30,24
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
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.28,23	Oct.27,23
CABLE	R&S	W13.02	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	W12.14	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	W12.14	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.28,23	Oct.27,23
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Oct.27,23	Apr.26,24
CABLE	R&S	J12J103539-00-	SEP-03-20-	Apr.28,23	Oct.27,23

		1	070		
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Oct.27,23	Apr.26,24
Temperature Chamber	votsch	VT4002	58566078100050	May.31,22	May.30,24

NOTE: 1. The calibration interval of the above test instruments is 6 months or 24months or 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	Edge AI Station	
BRAND NAME	Thundercomm	
MODEL NAME	EB5S	
NOMINAL VOLTAGE	19Vdc(adapter)	
MODULATION TYPE	**WCDMA:** BPSK, QPSK **LTE:** QPSK, 16QAM, 64QAM, 256QAM	
FREQUENCY RANGE	**WCDMA**	1852.4MHz ~ 1907.6MHz
	LTE Band 2 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1909.3MHz
	LTE Band 2 Channel Bandwidth: 3MHz	1851.5MHz ~ 1908.5MHz
	LTE Band 2 Channel Bandwidth: 5MHz	1852.5MHz ~ 1907.5MHz
	LTE Band 2 Channel Bandwidth: 10MHz	1855.0MHz ~ 1905.0MHz
	LTE Band 2 Channel Bandwidth: 15MHz	1857.5MHz ~ 1902.5MHz
	LTE Band 2 Channel Bandwidth: 20MHz	1860.0MHz ~ 1900.0MHz
	LTE Band CA 2C Channel Bandwidth: 5+20MHz	1853.3 MHz ~ 1900 MHz
	LTE Band CA 2C Channel Bandwidth: 20+5MHz	1860 MHz ~ 1906.7 MHz
	LTE Band CA 2C Channel Bandwidth: 10+15MHz	1855.3 MHz ~ 1902.5 MHz
	LTE Band CA 2C Channel Bandwidth: 15+10MHz	1857.5 MHz ~ 1904.7 MHz
	LTE Band CA 2C Channel Bandwidth: 10+20MHz	1855.5 MHz ~1900 MHz
	LTE Band CA 2C Channel Bandwidth: 20+10MHz	1860 MHz ~1904.5 MHz
	LTE Band CA 2C Channel Bandwidth: 15+15MHz	1857.5 MHz ~1902.5 MHz
	LTE Band CA 2C Channel Bandwidth: 15+20MHz	1857.8 MHz ~1900 MHz
	LTE Band CA 2C Channel Bandwidth: 20+15MHz	1860 MHz ~ 1902.2 MHz
	LTE Band CA 2C Channel Bandwidth: 20+20MHz	1860 MHz ~1900 MHz
	LTE Band 25 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1914.3MHz

	LTE Band 25 Channel Bandwidth: 3MHz	1851.5MHz ~ 1913.5MHz
	LTE Band 25 Channel Bandwidth: 5MHz	1852.5MHz ~ 1912.5MHz
	LTE Band 25 Channel Bandwidth: 10MHz	1855.0MHz ~ 1910.0MHz
	LTE Band 25 Channel Bandwidth: 15MHz	1857.5MHz ~ 1907.5MHz
	LTE Band 25 Channel Bandwidth: 20MHz	1860.0MHz ~ 1905.0MHz
MAX. EIRP POWER	**WCDMA**	281.84mW
	LTE Band 2 Channel Bandwidth: 1.4MHz	264.85mW
	LTE Band 2 Channel Bandwidth: 3MHz	274.16mW
	LTE Band 2 Channel Bandwidth: 5MHz	274.79mW
	LTE Band 2 Channel Bandwidth: 10MHz	274.16mW
	LTE Band 2 Channel Bandwidth: 15MHz	264.24mW
	LTE Band 2 Channel Bandwidth: 20MHz	269.77mW
	LTE Band CA 2C Channel Bandwidth: 5+20MHz	250.61mW
	LTE Band CA 2C Channel Bandwidth: 20+5MHz	266.07mW
	LTE Band CA 2C Channel Bandwidth: 10+15MHz	262.42mW
	LTE Band CA 2C Channel Bandwidth: 15+10MHz	268.53mW
	LTE Band CA 2C Channel Bandwidth: 15+15MHz	274.16mW
	LTE Band CA 2C Channel Bandwidth: 10+20MHz	244.34mW
	LTE Band CA 2C Channel Bandwidth: 20+10MHz	253.51mW
	LTE Band CA 2C Channel Bandwidth: 15+20MHz	277.33mW
	LTE Band CA 2C Channel Bandwidth: 20+15MHz	259.42mW
	LTE Band CA 2C Channel Bandwidth: 20+20MHz	258.82mW

	LTE Band 25 Channel Bandwidth: 1.4MHz	279.25mW
	LTE Band 25 Channel Bandwidth: 3MHz	277.97mW
	LTE Band 25 Channel Bandwidth: 5MHz	282.49mW
	LTE Band 25 Channel Bandwidth: 10MHz	273.53mW
	LTE Band 25 Channel Bandwidth: 15MHz	282.49mW
	LTE Band 25 Channel Bandwidth: 20MHz	282.49mW
EMISSION DESIGNATOR	**WCDMA**	4M17F9W
	LTE Band 2 Channel Bandwidth: 1.4MHz	QPSK: 1M11G7D
		16QAM: 1M11W7D
		64QAM: 1M11W7D
		256QAM: 1M11W7D
	LTE Band 2 Channel Bandwidth: 3MHz	QPSK: 2M70G7D
		16QAM: 2M70W7D
		64QAM: 2M70W7D
		256QAM: 2M70W7D
	LTE Band 2 Channel Bandwidth: 5MHz	QPSK: 4M48G7D
		16QAM: 4M49W7D
		64QAM: 4M48W7D
		256QAM: 4M49W7D
	LTE Band 2 Channel Bandwidth: 10MHz	QPSK: 8M95G7D
		16QAM: 8M95W7D
		64QAM: 8M96W7D
		256QAM: 8M96W7D
	LTE Band 2 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
		256QAM: 13M5W7D
EMISSION DESIGNATOR	**LTE Band 2 Channel Bandwidth: 20MHz**	QPSK: 17M9G7D
		16QAM: 17M9W7D
		64QAM: 17M9W7D

		256QAM: 17M9W7D
	LTE Band 25 Channel Bandwidth: 1.4MHz	QPSK: 1M11G7D
		16QAM: 1M11W7D
		64QAM: 1M11W7D
		256QAM: 1M11W7D
	LTE Band 25 Channel Bandwidth: 3MHz	QPSK: 2M70G7D
		16QAM: 2M70W7D
		64QAM: 2M70W7D
		256QAM: 2M70W7D
	LTE Band 25 Channel Bandwidth: 5MHz	QPSK: 4M48G7D
		16QAM: 4M48W7D
		64QAM: 4M48W7D
		256QAM: 4M49W7D
	LTE Band 25 Channel Bandwidth: 10MHz	QPSK: 8M95G7D
		16QAM: 8M95W7D
		64QAM: 8M94W7D
		256QAM: 8M95W7D
	LTE Band 25 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
		256QAM: 13M5W7D
	LTE Band 25 Channel Bandwidth: 20MHz	QPSK: 17M9G7D
		16QAM: 17M9W7D
		64QAM: 17M9W7D
		256QAM: 17M9W7D
	LTE Band CA 2C Channel Bandwidth: 5+20MHz	QPSK: 22M9G7D
		16QAM: 22M9W7D
		64QAM: 22M9W7D
		256QAM: 22M9W7D

EMISSION DESIGNATOR	**LTE Band CA 2C Channel Bandwidth: 20+5MHz**	QPSK: 23M0G7D
		16QAM: 22M9W7D
		64QAM: 22M9W7D
		256QAM: 23M0W7D
	LTE Band CA 2C Channel Bandwidth: 10+15MHz	QPSK: 23M2G7D
		16QAM: 23M1W7D
		64QAM: 23M2W7D
		256QAM: 23M1W7D
	LTE Band CA 2C Channel Bandwidth: 15+10MHz	QPSK: 23M2G7D
		16QAM: 23M2W7D
		64QAM: 23M2W7D
		256QAM: 23M2W7D
	LTE Band CA 2C Channel Bandwidth: 10+20MHz	QPSK: 27M7G7D
		16QAM: 27M7W7D
		64QAM: 27M8W7D
		256QAM: 27M8W7D
	LTE Band CA 2C Channel Bandwidth: 20+10MHz	QPSK: 27M8G7D
		16QAM: 27M8W7D
		64QAM: 27M7W7D
		256QAM: 27M8W7D
	LTE Band CA 2C Channel Bandwidth: 15+15MHz	QPSK: 28M3G7D
		16QAM: 28M3W7D
		64QAM: 28M3W7D
		256QAM: 28M3W7D
	LTE Band CA 2C Channel Bandwidth: 15+20MHz	QPSK: 32M6G7D
		16QAM: 32M6W7D
		64QAM: 32M6W7D
		256QAM: 32M6W7D
	LTE Band CA 2C Channel Bandwidth: 20+15MHz	QPSK: 32M6G7D
		16QAM: 32M6W7D
		64QAM: 32M6W7D
		256QAM: 32M6W7D
	LTE Band CA 2C	QPSK: 37M8G7D

	Channel Bandwidth: 20+20MHz	16QAM: 37M7W7D
		64QAM: 37M7W7D
		256QAM: 37M8W7D
ANTENNA TYPE	Fixed External Antenna with -0.48dBi gain for WCDMA II/LTE B2/ LTE B25/LTE CA 2C	
HW VERSION	Turbox EB5S-IO-BOARD V03	
SW VERSION	R.5S.LA.2.20231030	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
EXTREME TEMPERATURE	-20-60 ℃	
EXTREME VOLTAGE	12V - 24V	

NOTE:

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

2. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
WCDMA	1TX/1RX
LTE	1TX/1RX

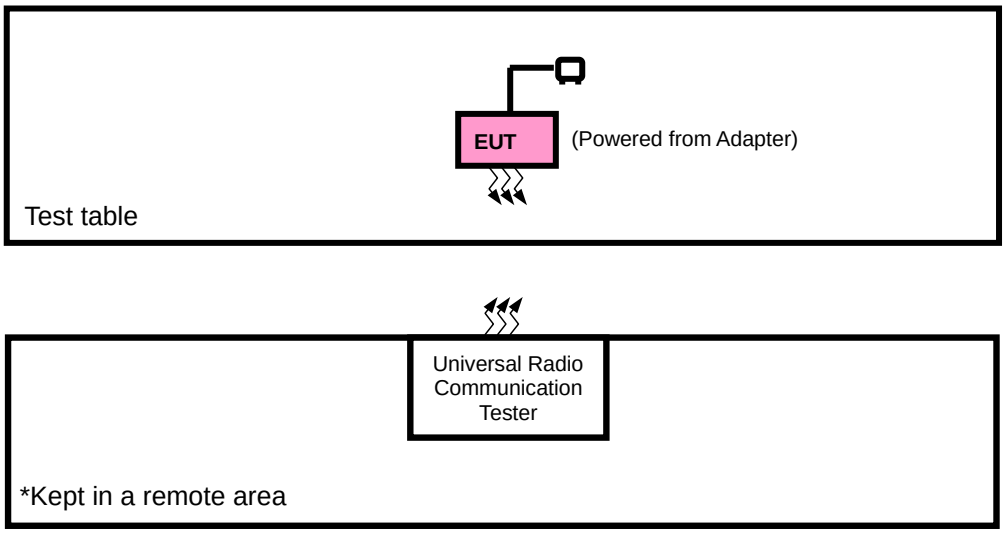
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

4 **List of Accessory:**

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
AC Adapter	Huntkey	Shenzhen Huntkey Electric Co. Ltd.	HKA09019047-6U	I/P: 100-240Vac, 1.5A, O/P: 19Vdc, 3.15A

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	N/A	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 in EIRP and radiated emission was found when positioned on X-plane for WCDMA/ LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	**EUT + Adapter with WCDMA or LTE link**

WCDMA

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
A	RADIATED EMISSION	9262 to 9538	9262, 9400, 9538	WCDMA

LTE BAND 2 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. LTE Band 2 are covered by LTE Band 25, Because it is a subset of LTE Band 25 with the same output power and supported bandwidths, So the RSE test data please refer to LTE Band 25

LTE BAND 25 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365,26640	10MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	26047 to 26683	26365	1.4MHz	QPSK	1 RB / 0 RB Offset
		26055 to 26675	26365	3MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26365	5MHz	QPSK	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK	1 RB / 0 RB Offset
		26115 to 26615	26365	15MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26365	20MHz	QPSK	1 RB / 0 RB Offset

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

LTE BAND CA 2C

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	18633/ 18750 to 18983/ 19100	18633/ 18750 18808/ 18925 18983/ 19100	5+20MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 24 RB Offset	1 RB / 0 RB Offset
		18700/ 18817 to 19050/ 19167	18700/ 18817 18875/ 18992 19050/ 19167	20+5MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 99 RB Offset	1 RB / 0 RB Offset
		18653/ 18773 to 19005/ 19125	18653/ 18773 18829/ 18949 19005/ 19125	10+15MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 49 RB Offset	1 RB / 0 RB Offset
		18675/ 18795 to 19027/ 19147	18675/ 18795 18851/ 18971 19027/ 19147	15+10MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 74 RB Offset	1 RB / 0 RB Offset
		18655/ 18799 to 18956/ 19100	18655/ 18799 18806/ 18950 18956/ 19100	10+20MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 49 RB Offset	1 RB / 0 RB Offset
		18700/ 18844 to 19001/ 19145	18700/ 18844 18851/ 18995 19001/ 19145	20+10MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 99 RB Offset	1 RB / 0 RB Offset
		18675/ 18825 to 18975/ 19125	18675/ 18825 18825/ 18975 18975/ 19125	15+15MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 74 RB Offset	1 RB / 0 RB Offset
		18678/ 18849 to 18929/ 19100	18678/ 18849 18803/ 18974 18929/ 19100	15+20MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 74 RB Offset	1 RB / 0 RB Offset
		18700/ 18871 to 18951/ 19122	18700/ 18871 18826/ 18997 18951/ 19122	20+15MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 99 RB Offset	1 RB / 0 RB Offset
		18700/ 18898 to 18902/ 19100	18700/ 18898 18801/ 18999 18902/ 19100	20+20MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 99 RB Offset	1 RB / 0 RB Offset
A	RADIATED EMISSION	18700/ 18898 to 18902/ 19100	18700/ 18898 18801/ 18999 18902/ 19100	20+20MHz	QPSK	1 RB / 99 RB Offset	1 RB / 0 RB 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	25deg. C, 57%RH	DC 19V By Adapter	Jace Hu
RADIATED EMISSION	23deg. C, 70%RH	DC19V By Adapter	Jace Hu

2.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

2.6 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 24

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

Mobile and portable stations are limited to 2 watts EIRP.

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.

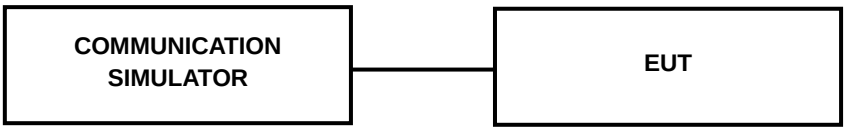
CONDUCTED POWER MEASUREMENT:

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

3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

EIRP POWER (dBm)

WCDMA

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
9262	1852.4	24.52	-0.48	24.04	253.51	2
9400	1880	24.98	-0.48	24.5	281.84	2
9538	1907.6	23.85	-0.48	23.37	217.27	2

LTE BAND 2

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	24.19	-0.48	23.71	234.96	2
18900	1880.0	24.71	-0.48	24.23	264.85	2
19193	1909.3	24.63	-0.48	24.15	260.02	2

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	22.86	-0.48	22.38	172.98	2
18900	1880.0	24.38	-0.48	23.9	245.47	2
19193	1909.3	24.06	-0.48	23.58	228.03	2

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	21.69	-0.48	21.21	132.13	2
18900	1880.0	23.32	-0.48	22.84	192.31	2
19193	1908.3	22.71	-0.48	22.23	167.11	2

CHANNEL BANDWIDTH: 1.4MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	19.49	-0.48	19.01	79.62	2
18900	1880.0	20.35	-0.48	19.87	97.05	2
19193	1908.3	20.69	-0.48	20.21	104.95	2

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	23.9	-0.48	23.42	219.79	2
18900	1880.0	24.86	-0.48	24.38	274.16	2
19185	1908.5	24.52	-0.48	24.04	253.51	2

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	22.59	-0.48	22.11	162.55	2
18900	1880.0	24.18	-0.48	23.7	234.42	2
19185	1908.5	24.27	-0.48	23.79	239.33	2

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	21.44	-0.48	20.96	124.74	2
18900	1880.0	23.15	-0.48	22.67	184.93	2
19185	1908.5	23.02	-0.48	22.54	179.47	2

CHANNEL BANDWIDTH: 3MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	19.4	-0.48	18.92	77.98	2
18900	1880.0	20.39	-0.48	19.91	97.95	2
19185	1908.5	20.56	-0.48	20.08	101.86	2

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	23.94	-0.48	23.46	221.82	2
18900	1880.0	24.87	-0.48	24.39	274.79	2
19175	1907.5	24.32	-0.48	23.84	242.1	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	22.68	-0.48	22.2	165.96	2
18900	1880.0	24.3	-0.48	23.82	240.99	2
19175	1907.5	24.27	-0.48	23.79	239.33	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	21.61	-0.48	21.13	129.72	2
18900	1880.0	23.36	-0.48	22.88	194.09	2
19175	1907.5	23.07	-0.48	22.59	181.55	2

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	19.55	-0.48	19.07	80.72	2
18900	1880.0	20.28	-0.48	19.8	95.5	2
19175	1907.5	20.56	-0.48	20.08	101.86	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855.0	24.12	-0.48	23.64	231.21	2
18900	1880.0	24.86	-0.48	24.38	274.16	2
19150	1905.0	24.41	-0.48	23.93	247.17	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855.0	23.07	-0.48	22.59	181.55	2
18900	1880.0	24.39	-0.48	23.91	246.04	2
19150	1905.0	24.15	-0.48	23.67	232.81	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855.0	22.04	-0.48	21.56	143.22	2
18900	1880.0	23.68	-0.48	23.2	208.93	2
19150	1905.0	22.84	-0.48	22.36	172.19	2

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855.0	20.13	-0.48	19.65	92.26	2
18900	1880.0	20.31	-0.48	19.83	96.16	2
19150	1905.0	20.82	-0.48	20.34	108.14	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	24.65	-0.48	24.17	261.22	2
18900	1880.0	24.7	-0.48	24.22	264.24	2
19125	1902.5	24.52	-0.48	24.04	253.51	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	23.74	-0.48	23.26	211.84	2
18900	1880.0	24.02	-0.48	23.54	225.94	2
19125	1902.5	24.43	-0.48	23.95	248.31	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	22.95	-0.48	22.47	176.6	2
18900	1880.0	22.8	-0.48	22.32	170.61	2
19125	1902.5	23.17	-0.48	22.69	185.78	2

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	19.85	-0.48	19.37	86.5	2
18900	1880.0	20.31	-0.48	19.83	96.16	2
19125	1902.5	20.79	-0.48	20.31	107.4	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	24.6	-0.48	24.12	258.23	2
18900	1880	24.72	-0.48	24.24	265.46	2
19100	1900	24.79	-0.48	24.31	269.77	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	23.74	-0.48	23.26	211.84	2
18900	1880	24.11	-0.48	23.63	230.67	2
19100	1900	24.51	-0.48	24.03	252.93	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	22.66	-0.48	22.18	165.2	2
18900	1880	23.2	-0.48	22.72	187.07	2
19100	1900	23.08	-0.48	22.6	181.97	2

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	20.17	-0.48	19.69	93.11	2
18900	1880	20.42	-0.48	19.94	98.63	2
19100	1900	20.62	-0.48	20.14	103.28	2

LTE BAND 25

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	24.58	-0.48	24.1	257.04	2
26365	1882.5	24.94	-0.48	24.46	279.25	2
26683	1914.3	24.52	-0.48	24.04	253.51	2

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	24.12	-0.48	23.64	231.21	2
26365	1882.5	24.28	-0.48	23.8	239.88	2
26683	1914.3	23.88	-0.48	23.4	218.78	2

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	23.34	-0.48	22.86	193.2	2
26365	1882.5	23.28	-0.48	22.8	190.55	2
26683	1914.3	22.65	-0.48	22.17	164.82	2

CHANNEL BANDWIDTH: 1.4MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	20.46	-0.48	19.98	99.54	2
26365	1882.5	20.3	-0.48	19.82	95.94	2
26683	1914.3	20.14	-0.48	19.66	92.47	2

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	24.37	-0.48	23.89	244.91	2
26365	1882.5	24.92	-0.48	24.44	277.97	2
26675	1913.5	24.36	-0.48	23.88	244.34	2

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	23.91	-0.48	23.43	220.29	2
26365	1882.5	24.22	-0.48	23.74	236.59	2
26675	1913.5	24.13	-0.48	23.65	231.74	2

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1851.5	22.75	-0.48	22.27	168.66	2
26365	1882.5	23.41	-0.48	22.93	196.34	2
26683	1913.5	23.09	-0.48	22.61	182.39	2

CHANNEL BANDWIDTH: 3MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1851.5	20.4	-0.48	19.92	98.17	2
26365	1882.5	20.26	-0.48	19.78	95.06	2
26683	1913.5	20.15	-0.48	19.67	92.68	2

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	24.55	-0.48	24.07	255.27	2
26365	1882.5	24.99	-0.48	24.51	282.49	2
26665	1912.5	24.51	-0.48	24.03	252.93	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	24.06	-0.48	23.58	228.03	2
26365	1882.5	24.38	-0.48	23.9	245.47	2
26665	1912.5	24.14	-0.48	23.66	232.27	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	22.95	-0.48	22.47	176.6	2
26365	1882.5	23.49	-0.48	23.01	199.99	2
26665	1912.5	22.98	-0.48	22.5	177.83	2

CHANNEL BANDWIDTH: 5MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	20.36	-0.48	19.88	97.27	2
26365	1882.5	20.39	-0.48	19.91	97.95	2
26665	1912.5	20.38	-0.48	19.9	97.72	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	24.85	-0.48	24.37	273.53	2
26365	1882.5	24.36	-0.48	23.88	244.34	2
26640	1910	24.52	-0.48	24.04	253.51	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	24.08	-0.48	23.6	229.09	2
26365	1882.5	24.24	-0.48	23.76	237.68	2
26640	1910	24.17	-0.48	23.69	233.88	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	23.06	-0.48	22.58	181.13	2
26365	1882.5	23.45	-0.48	22.97	198.15	2
26640	1910	22.75	-0.48	22.27	168.66	2

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	20.31	-0.48	19.83	96.16	2
26365	1882.5	20.34	-0.48	19.86	96.83	2
26640	1910	20.27	-0.48	19.79	95.28	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	24.94	-0.48	24.46	279.25	2
26365	1882.5	24.99	-0.48	24.51	282.49	2
26615	1907.5	24.51	-0.48	24.03	252.93	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	23.98	-0.48	23.5	223.87	2
26365	1882.5	24.09	-0.48	23.61	229.61	2
26615	1907.5	24.17	-0.48	23.69	233.88	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	23.23	-0.48	22.75	188.36	2
26365	1882.5	23.16	-0.48	22.68	185.35	2
26615	1907.5	22.73	-0.48	22.25	167.88	2

CHANNEL BANDWIDTH: 15MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	20.43	-0.48	19.95	98.86	2
26365	1882.5	20.42	-0.48	19.94	98.63	2
26615	1907.5	20.13	-0.48	19.65	92.26	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	24.83	-0.48	24.35	272.27	2
26365	1882.5	24.99	-0.48	24.51	282.49	2
26590	1905	24.51	-0.48	24.03	252.93	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	23.9	-0.48	23.42	219.79	2
26365	1882.5	24.29	-0.48	23.81	240.44	2
26590	1905	24.03	-0.48	23.55	226.46	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	23.08	-0.48	22.6	181.97	2
26365	1882.5	23.15	-0.48	22.67	184.93	2
26590	1905	23.2	-0.48	22.72	187.07	2

CHANNEL BANDWIDTH: 20MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	20.29	-0.48	19.81	95.72	2
26365	1882.5	20.77	-0.48	20.29	106.91	2
26590	1905	20.25	-0.48	19.77	94.84	2

LTE BAND CA 2C

CHANNEL BANDWIDTH: 5MHz+20MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18633	1853.3	18750	1865	24.09	-0.48	23.61	229.61	2
18808	1870.8	18925	1882.5	24.45	-0.48	23.97	249.46	2
18983	1888.3	19100	1900	24.47	-0.48	23.99	250.61	2

CHANNEL BANDWIDTH: 5MHz+20MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18633	1853.3	18750	1865	22.54	-0.48	22.06	160.69	2
18808	1870.8	18925	1882.5	23.19	-0.48	22.71	186.64	2
18983	1888.3	19100	1900	23.11	-0.48	22.63	183.23	2

CHANNEL BANDWIDTH: 5MHz+20MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18633	1853.3	18750	1865	21.50	-0.48	21.02	126.47	2
18808	1870.8	18925	1882.5	21.84	-0.48	21.36	136.77	2
18983	1888.3	19100	1900	21.90	-0.48	21.42	138.68	2

CHANNEL BANDWIDTH: 5MHz+20MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18633	1853.3	18750	1865	18.54	-0.48	18.06	63.97	2
18808	1870.8	18925	1882.5	19.15	-0.48	18.67	73.62	2
18983	1888.3	19100	1900	19.19	-0.48	18.71	74.30	2

CHANNEL BANDWIDTH: 20MHz+5MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18817	1871.7	24.36	-0.48	23.88	244.34	2
18875	1877.5	18992	1889.2	24.73	-0.48	24.25	266.07	2
19050	1895	19167	1906.7	24.54	-0.48	24.06	254.68	2

CHANNEL BANDWIDTH: 20MHz+5MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18817	1871.7	22.76	-0.48	22.28	169.04	2
18875	1877.5	18992	1889.2	23.18	-0.48	22.70	186.21	2
19050	1895	19167	1906.7	22.92	-0.48	22.44	175.39	2

CHANNEL BANDWIDTH: 20MHz+5MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18817	1871.7	21.45	-0.48	20.97	125.03	2
18875	1877.5	18992	1889.2	21.95	-0.48	21.47	140.28	2
19050	1895	19167	1906.7	22.04	-0.48	21.56	143.22	2

CHANNEL BANDWIDTH: 20MHz+5MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18817	1871.7	18.84	-0.48	18.36	68.55	2
18875	1877.5	18992	1889.2	19.23	-0.48	18.75	74.99	2
19050	1895	19167	1906.7	19.25	-0.48	18.77	75.34	2

CHANNEL BANDWIDTH: 10MHz+15MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18653	1855.3	18773	1867.3	24.39	-0.48	23.91	246.04	2
18829	1872.9	18949	1884.9	24.61	-0.48	24.13	258.82	2
19005	1890.5	19125	1902.5	24.67	-0.48	24.19	262.42	2

CHANNEL BANDWIDTH: 10MHz+15MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18653	1855.3	18773	1867.3	22.79	-0.48	22.31	170.22	2
18829	1872.9	18949	1884.9	23.10	-0.48	22.62	182.81	2
19005	1890.5	19125	1902.5	23.18	-0.48	22.70	186.21	2

CHANNEL BANDWIDTH: 10MHz+15MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18653	1855.3	18773	1867.3	21.45	-0.48	20.97	125.03	2
18829	1872.9	18949	1884.9	22.10	-0.48	21.62	145.21	2
19005	1890.5	19125	1902.5	22.23	-0.48	21.75	149.62	2

CHANNEL BANDWIDTH: 10MHz+15MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18653	1855.3	18773	1867.3	18.60	-0.48	18.12	64.86	2
18829	1872.9	18949	1884.9	19.18	-0.48	18.70	74.13	2
19005	1890.5	19125	1902.5	19.24	-0.48	18.76	75.16	2

CHANNEL BANDWIDTH: 15MHz+10MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	18795	1869.5	24.77	-0.48	24.29	268.53	2
18851	1875.1	18971	1887.1	24.64	-0.48	24.16	260.62	2
19027	1892.7	19147	1904.7	24.33	-0.48	23.85	242.66	2

CHANNEL BANDWIDTH: 15MHz+10MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	18795	1869.5	22.97	-0.48	22.49	177.42	2
18851	1875.1	18971	1887.1	23.05	-0.48	22.57	180.72	2
19027	1892.7	19147	1904.7	22.99	-0.48	22.51	178.24	2

CHANNEL BANDWIDTH: 15MHz+10MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	18795	1869.5	21.61	-0.48	21.13	129.72	2
18851	1875.1	18971	1887.1	22.02	-0.48	21.54	142.56	2
19027	1892.7	19147	1904.7	21.90	-0.48	21.42	138.68	2

CHANNEL BANDWIDTH: 15MHz+10MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	18795	1869.5	18.49	-0.48	18.01	63.24	2
18851	1875.1	18971	1887.1	19.18	-0.48	18.70	74.13	2
19027	1892.7	19147	1904.7	19.15	-0.48	18.67	73.62	2

CHANNEL BANDWIDTH: 15MHz+15MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	18825	1872.5	24.50	-0.48	24.02	252.35	2
18825	1872.5	18975	1887.5	24.86	-0.48	24.38	274.16	2
18975	1887.5	19125	1902.5	24.44	-0.48	23.96	248.89	2

CHANNEL BANDWIDTH: 15MHz+15MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	18825	1872.5	22.79	-0.48	22.31	170.22	2
18825	1872.5	18975	1887.5	23.21	-0.48	22.73	187.50	2
18975	1887.5	19125	1902.5	23.03	-0.48	22.55	179.89	2

CHANNEL BANDWIDTH: 15MHz+15MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	18825	1872.5	21.53	-0.48	21.05	127.35	2
18825	1872.5	18975	1887.5	22.01	-0.48	21.53	142.23	2
18975	1887.5	19125	1902.5	22.00	-0.48	21.52	141.91	2

CHANNEL BANDWIDTH: 15MHz+15MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	18825	1872.5	18.75	-0.48	18.27	67.14	2
18825	1872.5	18975	1887.5	19.17	-0.48	18.69	73.96	2
18975	1887.5	19125	1902.5	19.29	-0.48	18.81	76.03	2

CHANNEL BANDWIDTH: 10MHz+20MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18655	1855.5	18799	1869.9	24.15	-0.48	23.67	232.81	2
18806	1870.6	18950	1885	24.19	-0.48	23.71	234.96	2
18956	1885.6	19100	1900	24.36	-0.48	23.88	244.34	2

CHANNEL BANDWIDTH: 10MHz+20MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18655	1855.5	18799	1869.9	22.56	-0.48	22.08	161.44	2
18806	1870.6	18950	1885	22.85	-0.48	22.37	172.58	2
18956	1885.6	19100	1900	22.96	-0.48	22.48	177.01	2

CHANNEL BANDWIDTH: 10MHz+20MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18655	1855.5	18799	1869.9	21.38	-0.48	20.90	123.03	2
18806	1870.6	18950	1885	21.79	-0.48	21.31	135.21	2
18956	1885.6	19100	1900	21.90	-0.48	21.42	138.68	2

CHANNEL BANDWIDTH: 10MHz+20MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18655	1855.5	18799	1869.9	18.48	-0.48	18.00	63.10	2
18806	1870.6	18950	1885	18.93	-0.48	18.45	69.98	2
18956	1885.6	19100	1900	19.12	-0.48	18.64	73.11	2

CHANNEL BANDWIDTH: 20MHz+10MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18844	1874.4	24.32	-0.48	23.84	242.10	2
18851	1875.1	18995	1889.5	24.52	-0.48	24.04	253.51	2
19001	1890.1	19145	1904.5	22.73	-0.48	22.25	167.88	2

CHANNEL BANDWIDTH: 20MHz+10MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18844	1874.4	22.62	-0.48	22.14	163.68	2
18851	1875.1	18995	1889.5	22.94	-0.48	22.46	176.20	2
19001	1890.1	19145	1904.5	23.19	-0.48	22.71	186.64	2

CHANNEL BANDWIDTH: 20MHz+10MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18844	1874.4	21.41	-0.48	20.93	123.88	2
18851	1875.1	18995	1889.5	21.95	-0.48	21.47	140.28	2
19001	1890.1	19145	1904.5	21.85	-0.48	21.37	137.09	2

CHANNEL BANDWIDTH: 20MHz+10MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18844	1874.4	18.72	-0.48	18.24	66.68	2
18851	1875.1	18995	1889.5	19.11	-0.48	18.63	72.95	2
19001	1890.1	19145	1904.5	19.17	-0.48	18.69	73.96	2

CHANNEL BANDWIDTH: 15MHz+20MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18678	1857.8	18849	1874.9	24.13	-0.48	23.65	231.74	2
18803	1870.3	18974	1887.4	24.37	-0.48	23.89	244.91	2
18929	1882.9	19100	1900	24.91	-0.48	24.43	277.33	2

CHANNEL BANDWIDTH: 15MHz+20MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18678	1857.8	18849	1874.9	22.64	-0.48	22.16	164.44	2
18803	1870.3	18974	1887.4	22.86	-0.48	22.38	172.98	2
18929	1882.9	19100	1900	23.40	-0.48	22.92	195.88	2

CHANNEL BANDWIDTH: 15MHz+20MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18678	1857.8	18849	1874.9	21.48	-0.48	21.00	125.89	2
18803	1870.3	18974	1887.4	21.83	-0.48	21.35	136.46	2
18929	1882.9	19100	1900	22.13	-0.48	21.65	146.22	2

CHANNEL BANDWIDTH: 15MHz+20MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18678	1857.8	18849	1874.9	18.77	-0.48	18.29	67.45	2
18803	1870.3	18974	1887.4	19.06	-0.48	18.58	72.11	2
18929	1882.9	19100	1900	19.23	-0.48	18.75	74.99	2

CHANNEL BANDWIDTH: 20MHz+15MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18871	1877.1	24.16	-0.48	23.68	233.35	2
18826	1872.6	18997	1889.7	24.62	-0.48	24.14	259.42	2
18951	1885.1	19122	1902.2	24.46	-0.48	23.98	250.03	2

CHANNEL BANDWIDTH: 20MHz+15MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18871	1877.1	22.50	-0.48	22.02	159.22	2
18826	1872.6	18997	1889.7	23.02	-0.48	22.54	179.47	2
18951	1885.1	19122	1902.2	23.10	-0.48	22.62	182.81	2

CHANNEL BANDWIDTH: 20MHz+15MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18871	1877.1	21.49	-0.48	21.01	126.18	2
18826	1872.6	18997	1889.7	21.91	-0.48	21.43	139.00	2
18951	1885.1	19122	1902.2	22.07	-0.48	21.59	144.21	2

CHANNEL BANDWIDTH: 20MHz+15MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18871	1877.1	18.84	-0.48	18.36	68.55	2
18826	1872.6	18997	1889.7	19.23	-0.48	18.75	74.99	2
18951	1885.1	19122	1902.2	19.36	-0.48	18.88	77.27	2

CHANNEL BANDWIDTH: 20MHz+20MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18898	1879.8	24.41	-0.48	23.93	247.17	2
18801	1870.1	18999	1889.9	24.61	-0.48	24.13	258.82	2
18902	1880.2	19100	1900	24.09	-0.48	23.61	229.61	2

CHANNEL BANDWIDTH: 20MHz+20MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18898	1879.8	22.77	-0.48	22.29	169.43	2
18801	1870.1	18999	1889.9	22.94	-0.48	22.46	176.20	2
18902	1880.2	19100	1900	23.28	-0.48	22.80	190.55	2

CHANNEL BANDWIDTH: 20MHz+20MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18898	1879.8	21.43	-0.48	20.95	124.45	2
18801	1870.1	18999	1889.9	21.85	-0.48	21.37	137.09	2
18902	1880.2	19100	1900	22.13	-0.48	21.65	146.22	2

CHANNEL BANDWIDTH: 20MHz+20MHz 256QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18898	1879.8	18.86	-0.48	18.38	68.87	2
18801	1870.1	18999	1889.9	19.04	-0.48	18.56	71.78	2
18902	1880.2	19100	1900	19.33	-0.48	18.85	76.74	2

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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.

3.2.2 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.

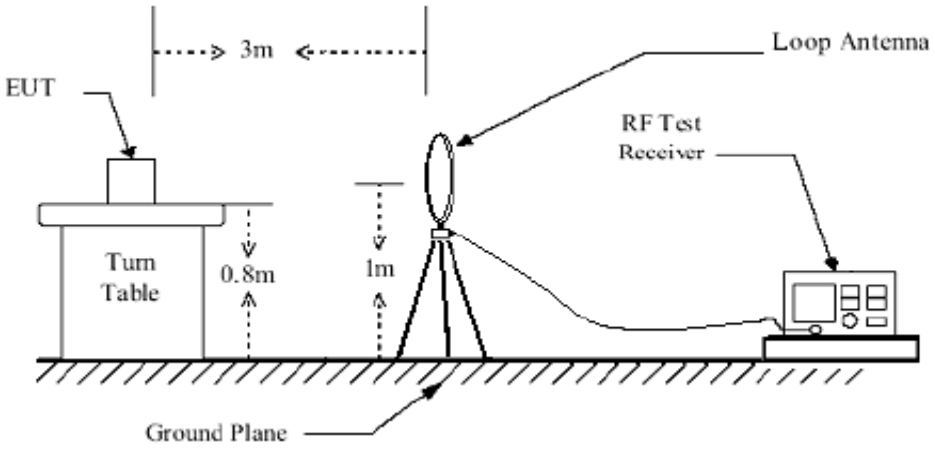
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.2.3 DEVIATION FROM TEST STANDARD

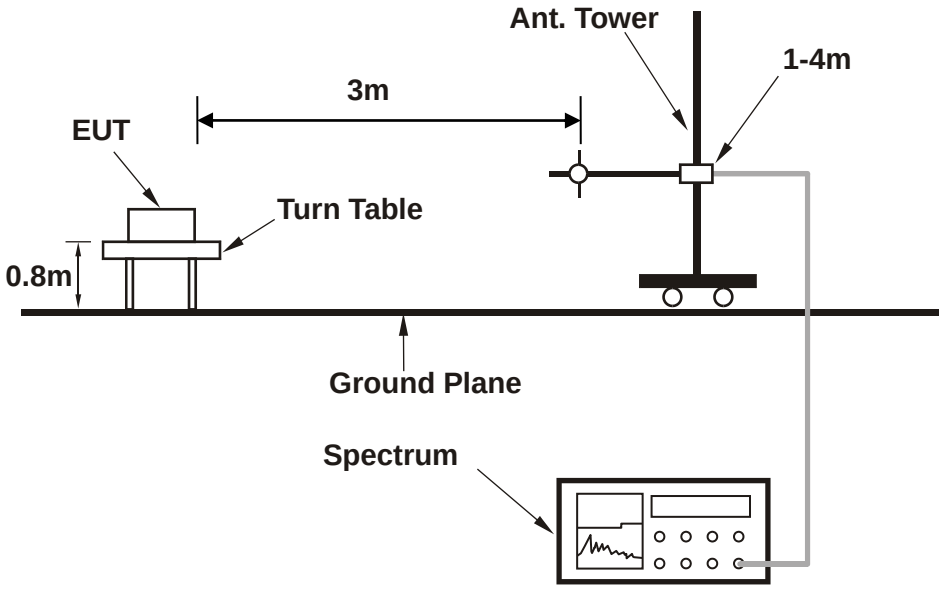
No deviation

3.2.4 TEST SETUP

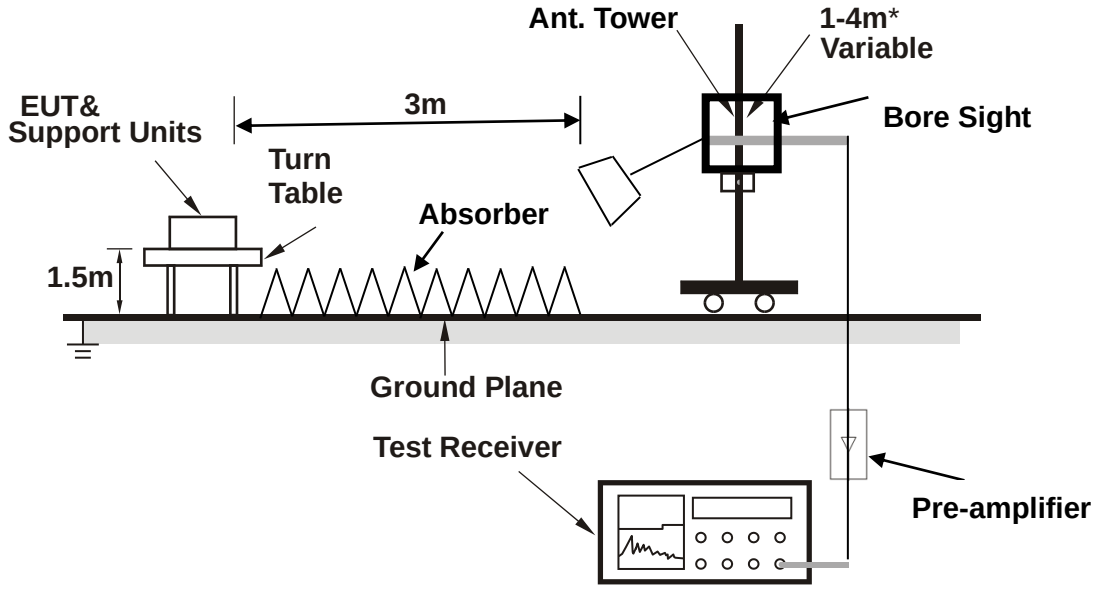
< Frequency Range below 30MHz >



< 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).

3.2.5 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

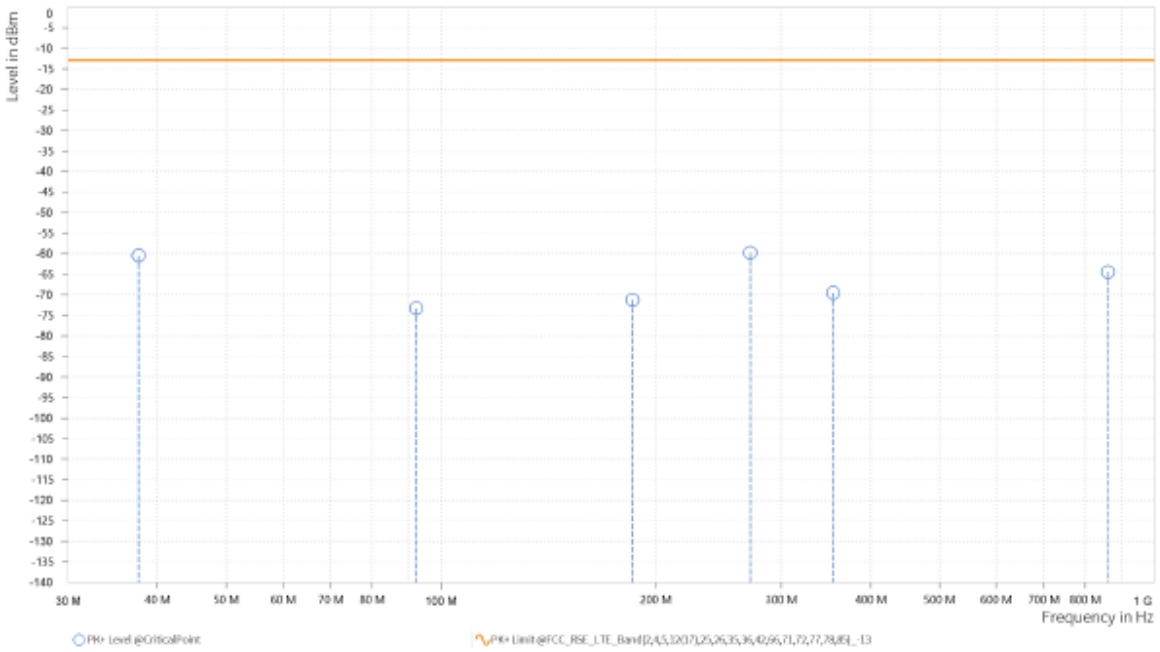
30 MHz – 1GHz data:

LTE Band 25:

CHANNEL BANDWIDTH: 10MHz / QPSK

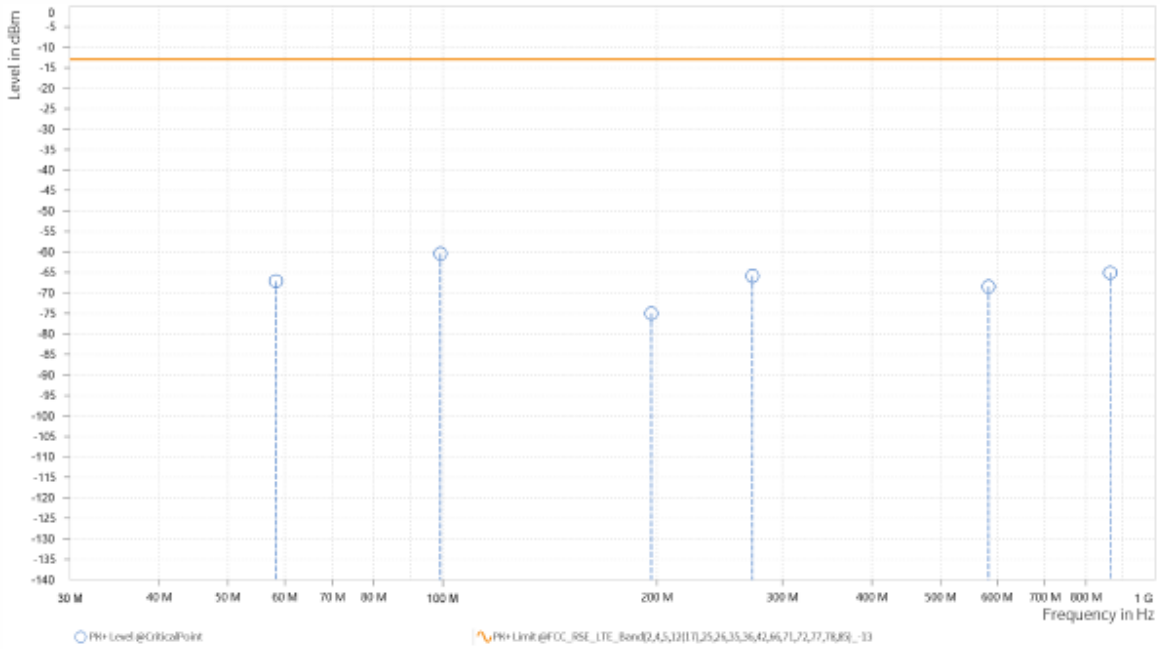
MODE	TX channel 26047	**FREQUENCY RANGE**	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	37.650	-60.49	-13.00	47.49	6.71	H	256.4	2
1	92.250	-73.32	-13.00	60.32	-4.57	H	5	2
1	185.400	-71.23	-13.00	58.23	0.14	H	354.2	2
1	271.250	-59.78	-13.00	46.78	4.65	H	146.4	2
1	354.650	-69.53	-13.00	56.53	4.24	H	146.4	2
2	860.988	-64.43	-13.00	51.43	12.08	H	195.4	2



MODE	TX channel 26047	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	58.400	-67.13	-13.00	54.13	3.06	V	15	2
1	99.300	-60.40	-13.00	47.40	11.69	V	1	2
1	196.300	-75.00	-13.00	62.00	0.01	V	15	2
1	272.100	-65.85	-13.00	52.85	3.65	V	218.4	2
2	583.329	-68.45	-13.00	55.45	6.21	V	1	2
2	864.196	-65.04	-13.00	52.04	11.45	V	1.4	2



ABOVE 1GHz DATA

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

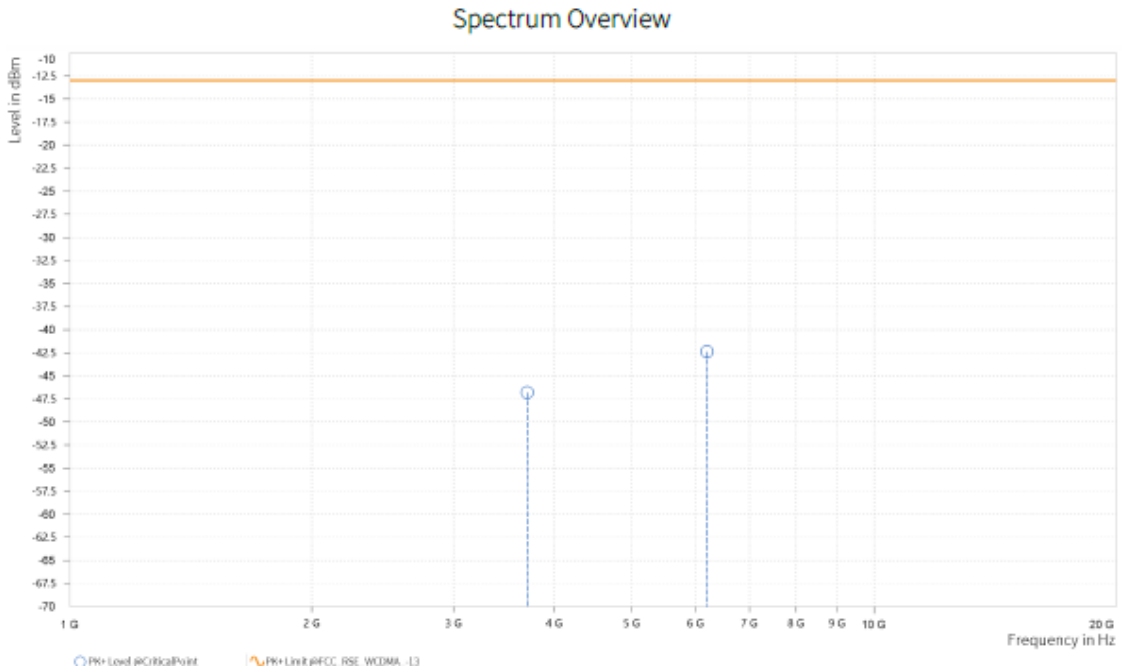
WORST-CASE DATA

WCDMA Band II

CH 9262

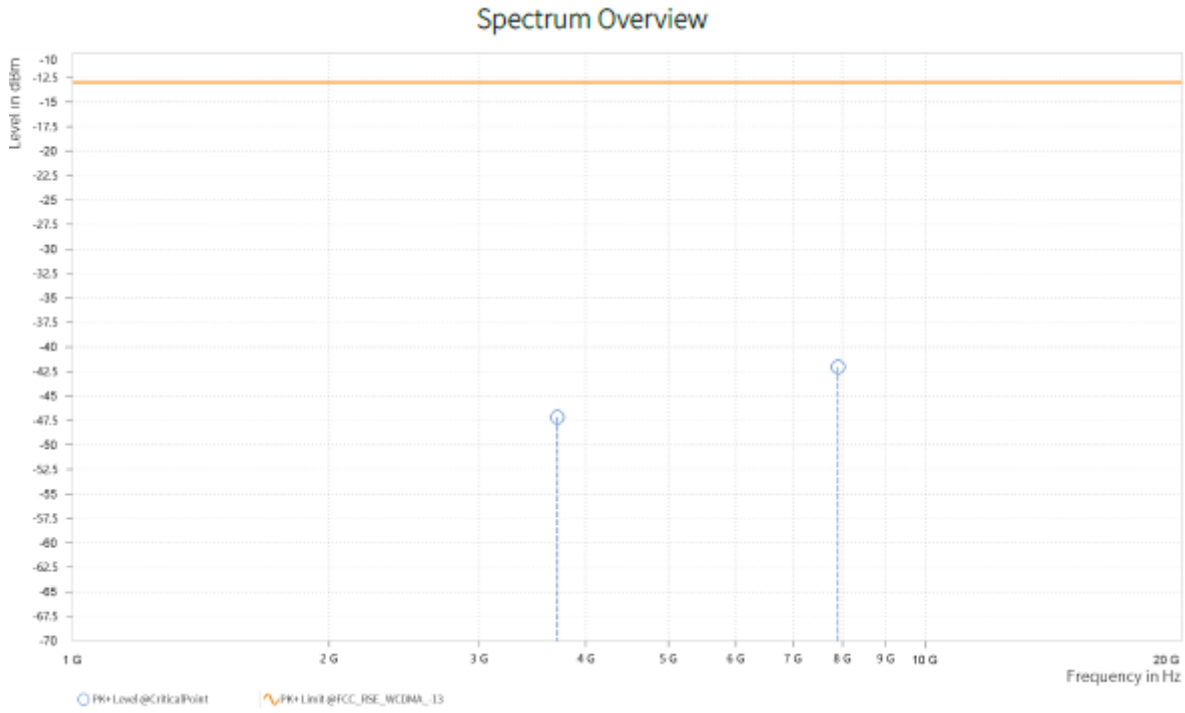
MODE	TX channel 9262	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,705.000	-46.81	-13.00	33.81	25.28	H	189.6	1
4	6,199.500	-42.38	-13.00	29.38	30.28	H	0.9	2



MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

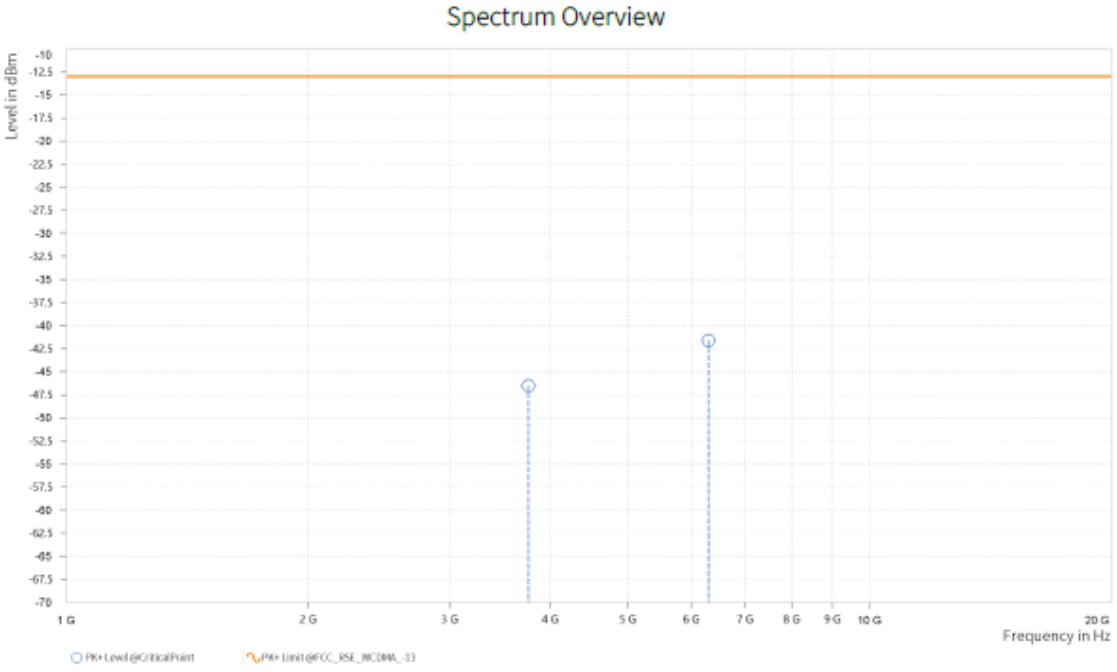
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,705.000	-47.17	-13.00	34.17	25.09	V	169.3	2
5	7,902.894	-42.05	-13.00	29.05	32.46	V	1	1



CH 9400

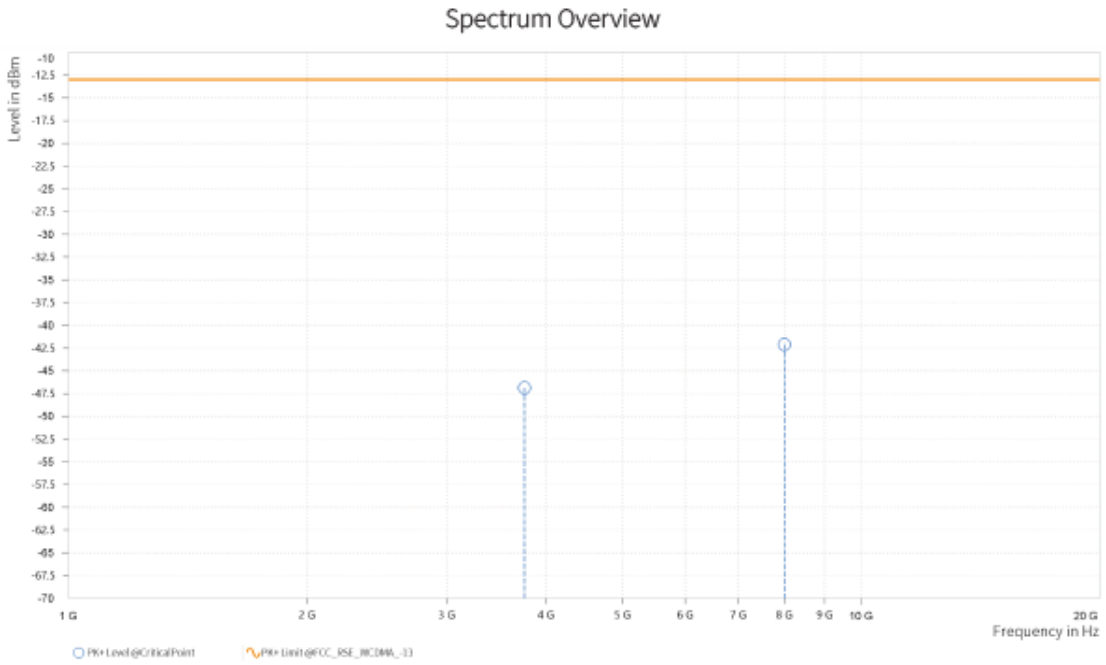
MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,760.000	-46.49	-13.00	33.49	25.94	H	1	2
4	6,296.000	-41.60	-13.00	28.60	30.40	H	359	2



MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

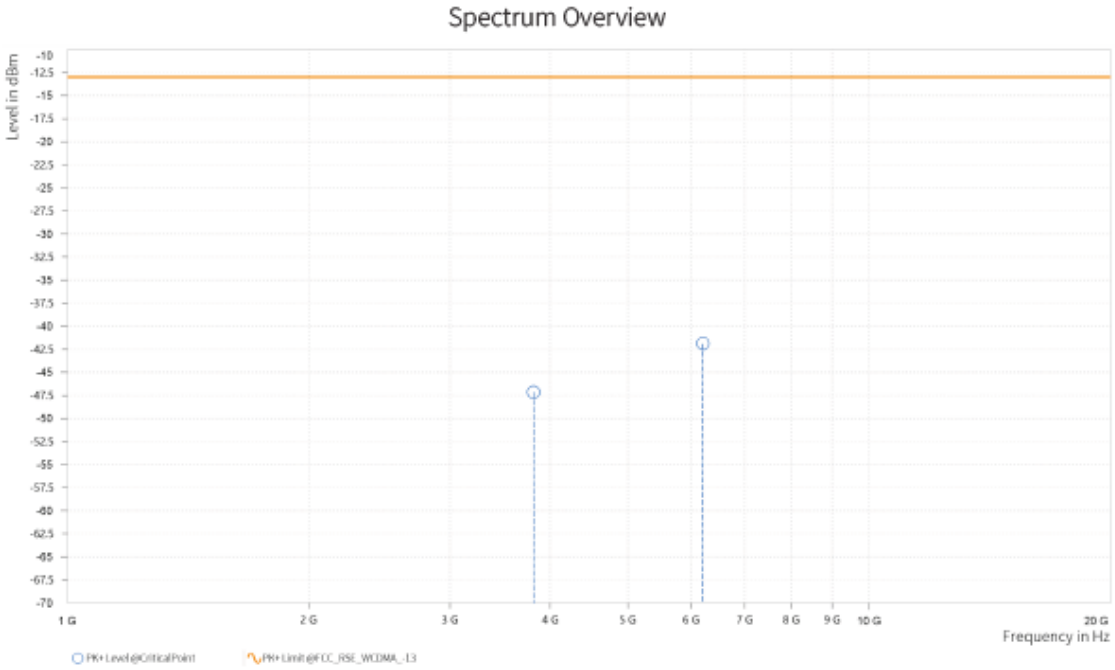
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,760.000	-46.86	-13.00	33.86	25.62	V	359.1	1
5	7,998.712	-42.11	-13.00	29.11	32.62	V	80.9	2



CH 9538

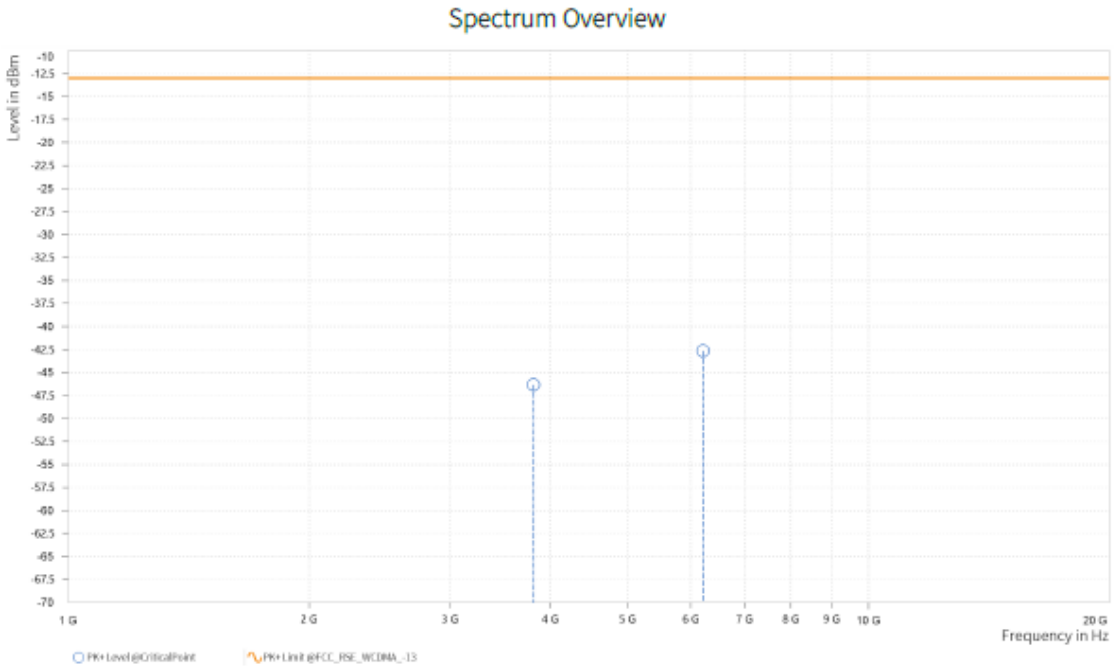
MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,815.000	-47.15	-13.00	34.15	26.25	H	359	2
4	6,202.500	-41.89	-13.00	28.89	30.27	H	1	2



MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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]
4	3,815.000	-46.34	-13.00	33.34	25.96	V	1	1
4	6,209.500	-42.65	-13.00	29.65	30.09	V	1	1

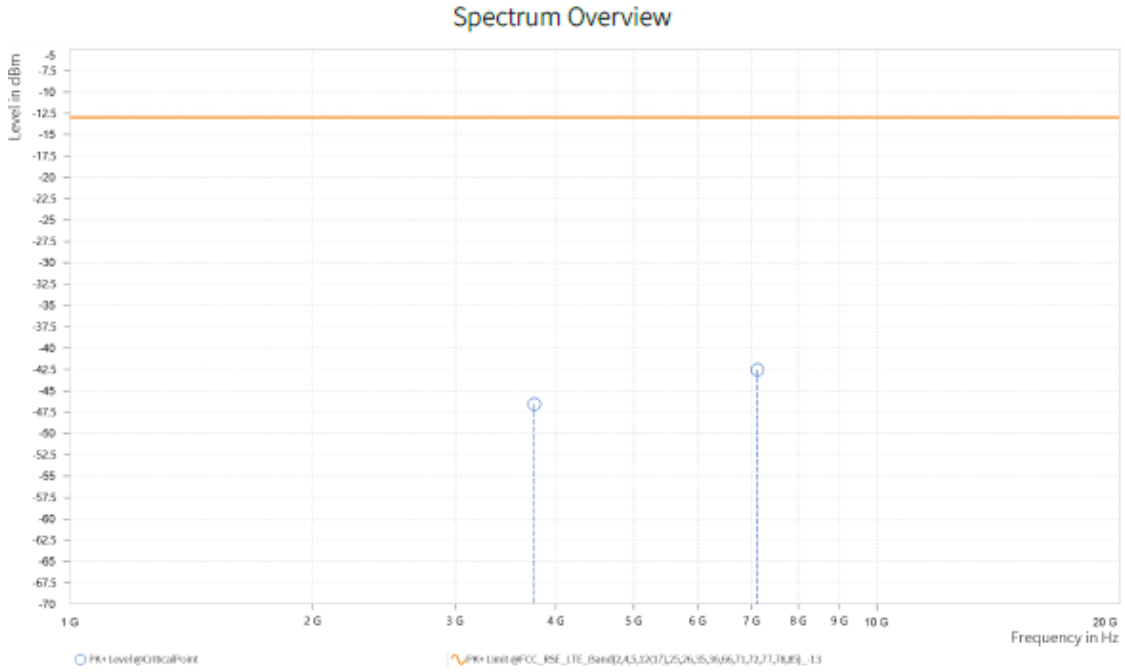


LTE Band 25

CHANNEL BANDWIDTH: 1.4MHz / QPSK

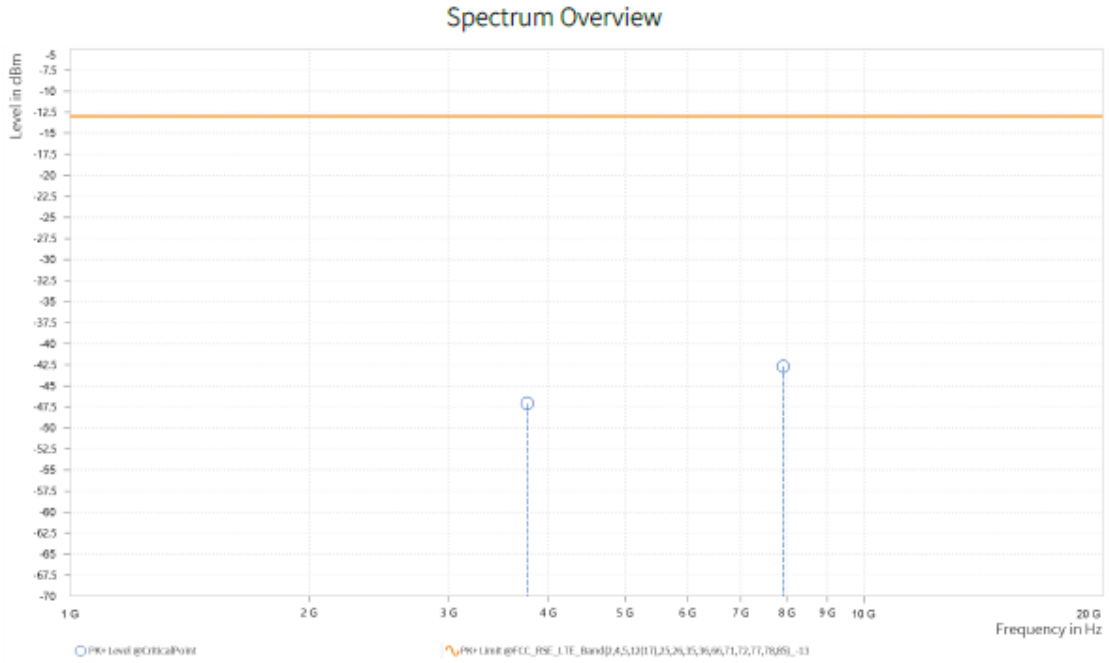
MODE	TX channel 26365	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,764.740	-46.58	-13.00	33.58	25.97	H	169.2	2
5	7,114.712	-42.55	-13.00	29.55	32.19	H	81.9	2



MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

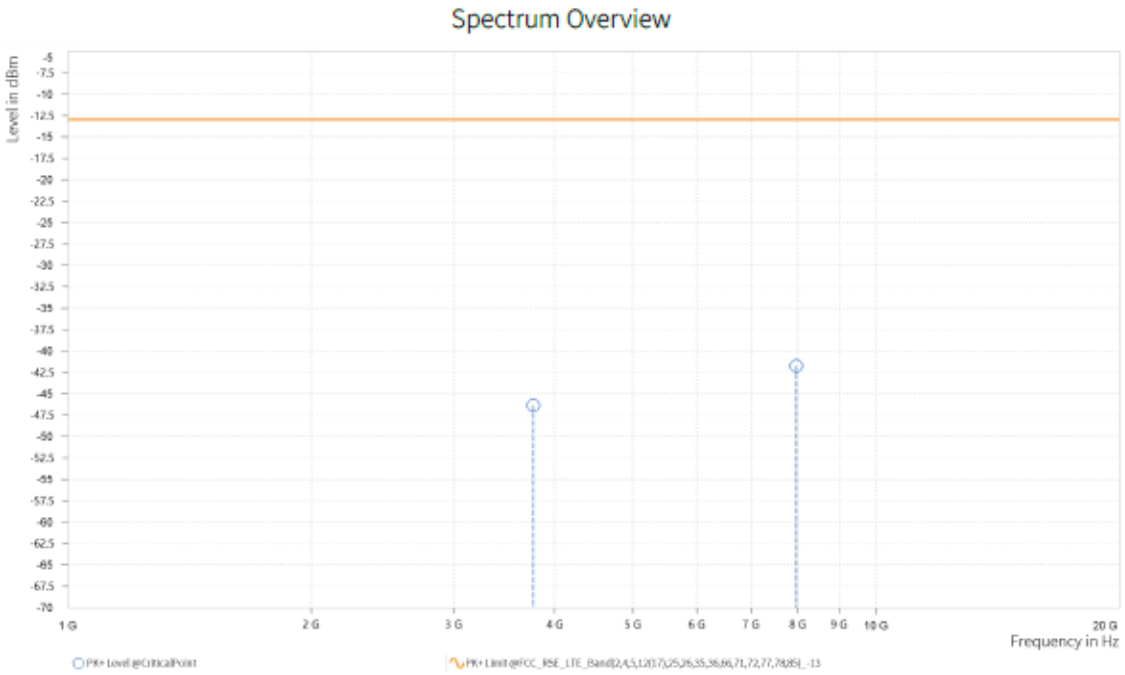
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,763.740	-47.10	-13.00	34.10	25.64	V	1	2
5	7,912.424	-42.68	-13.00	29.68	32.47	V	276.9	2



CHANNEL BANDWIDTH: 3MHz / QPSK

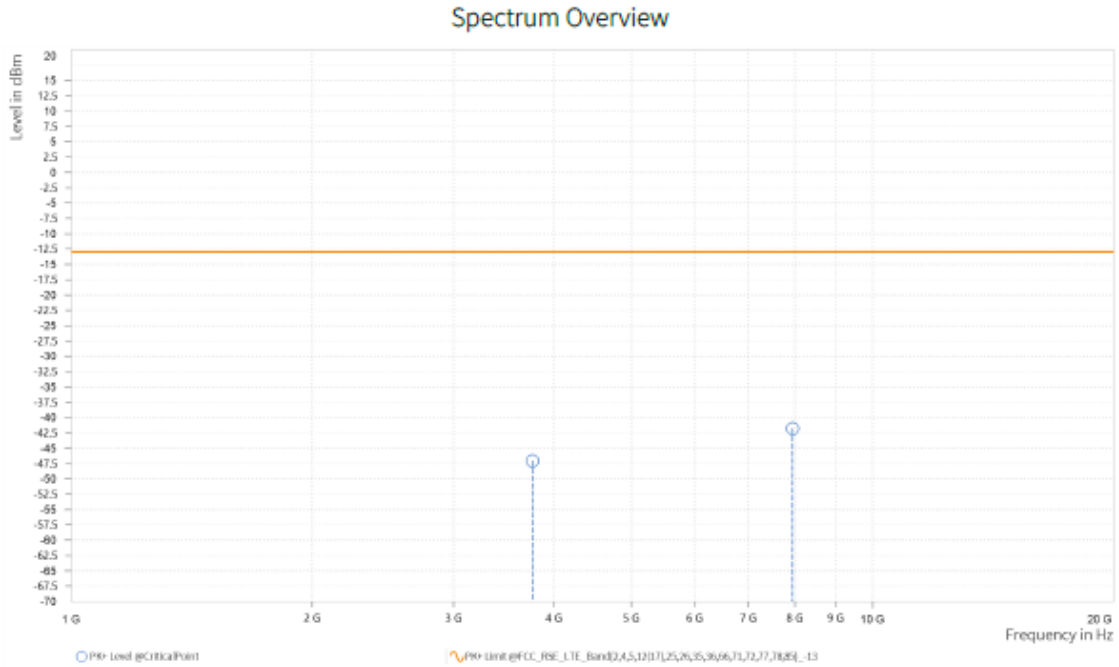
MODE	TX channel 26365	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,762.300	-46.38	-13.00	33.38	25.96	H	359	2
5	7,964.197	-41.75	-13.00	28.75	32.51	H	335.4	1



MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

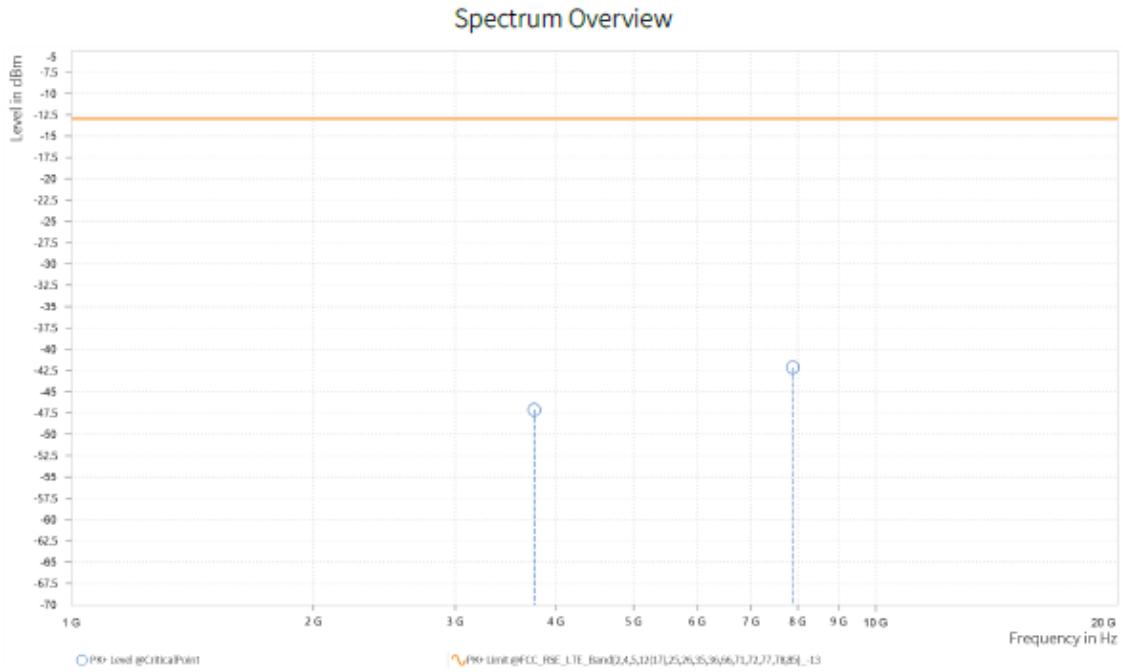
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,762.300	-47.06	-13.00	34.06	25.64	V	1	2
5	7,949.773	-41.78	-13.00	28.78	32.54	V	278.1	2



CHANNEL BANDWIDTH: 5MHz / QPSK

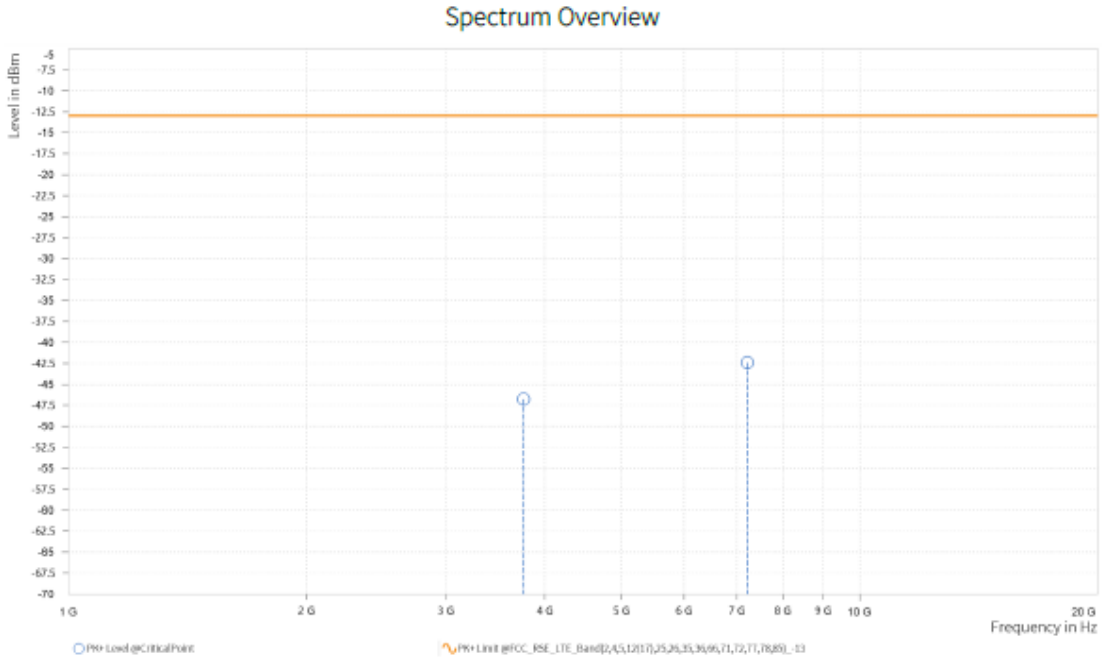
MODE	TX channel 26365	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,760.500	-47.11	-13.00	34.11	25.94	H	1	2
5	7,883.576	-42.13	-13.00	29.13	32.29	H	59	2



MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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]
4	3,760.500	-46.77	-13.00	33.77	25.63	V	359	2
5	7,209.758	-42.41	-13.00	29.41	32.34	V	359	2

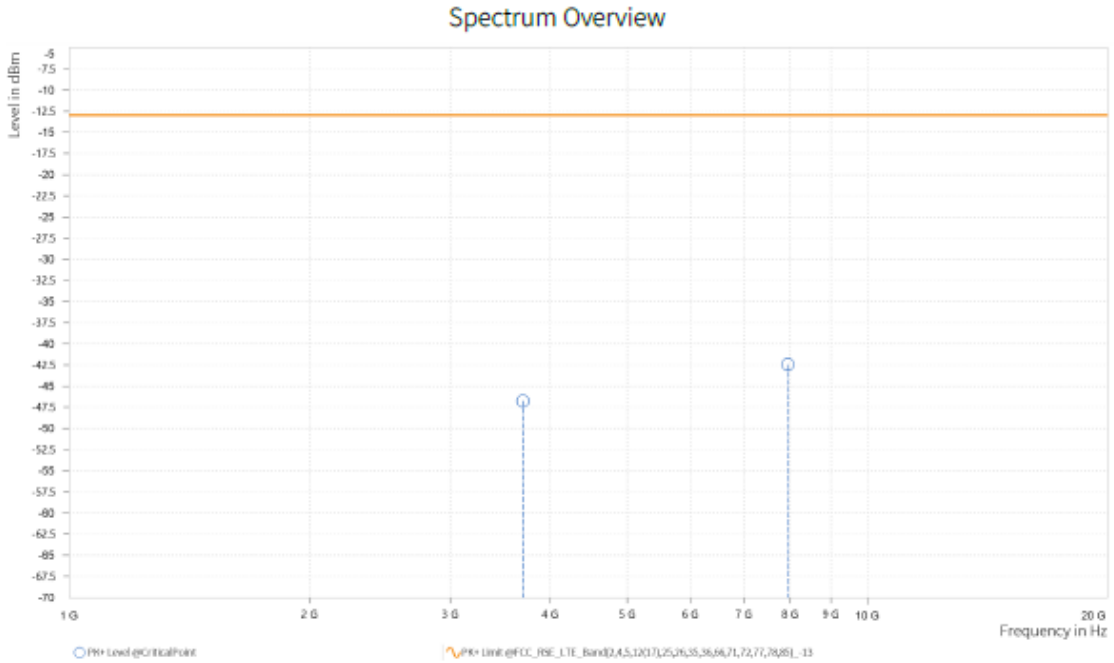


CHANNEL BANDWIDTH: 10MHz / QPSK

CH26090

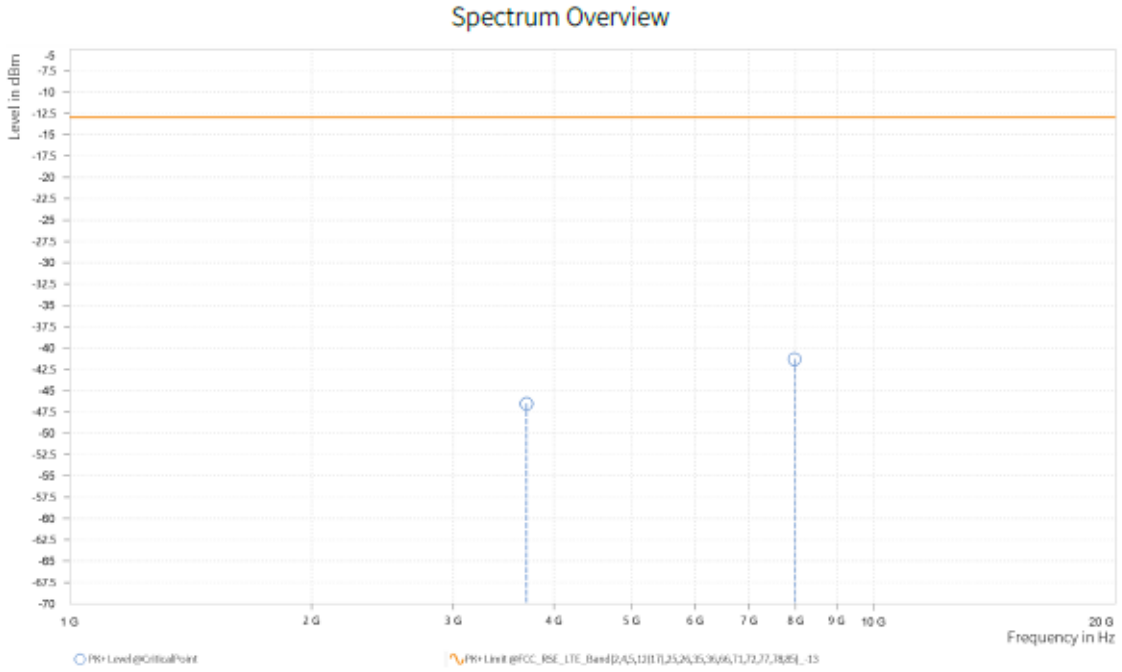
MODE	TX channel 26090	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,701.000	-46.75	-13.00	33.75	25.20	H	359	1
5	7,945.909	-42.45	-13.00	29.45	32.46	H	0.9	2



MODE	TX channel 26090	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

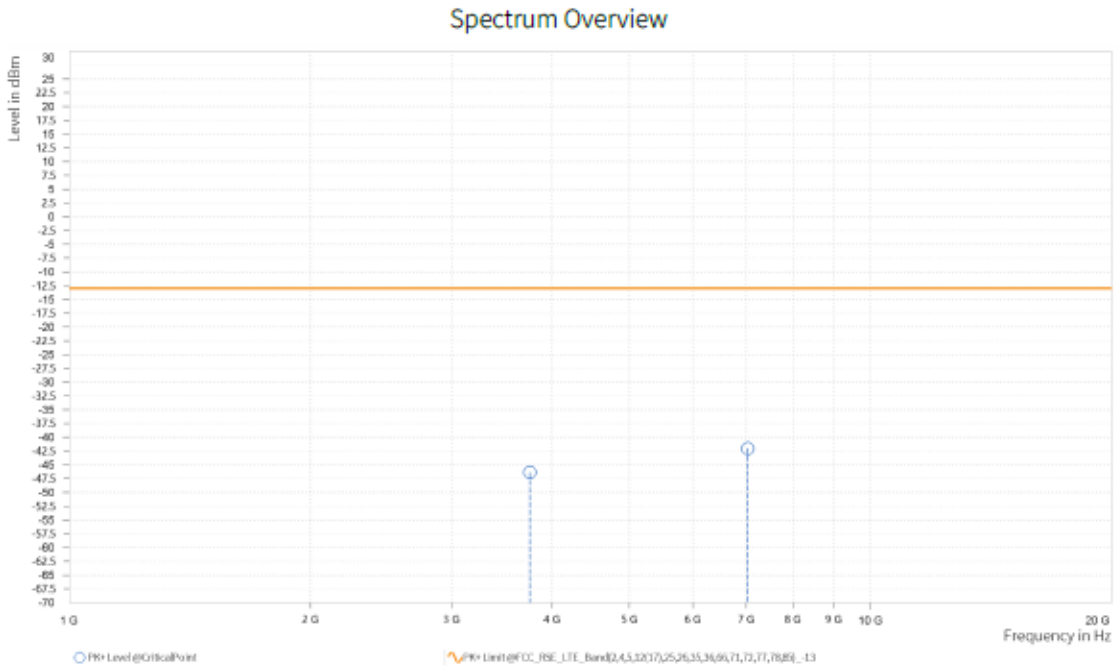
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,701.000	-46.53	-13.00	33.53	25.02	V	359	2
5	7,968.061	-41.30	-13.00	28.30	32.57	V	359	2



CH26365

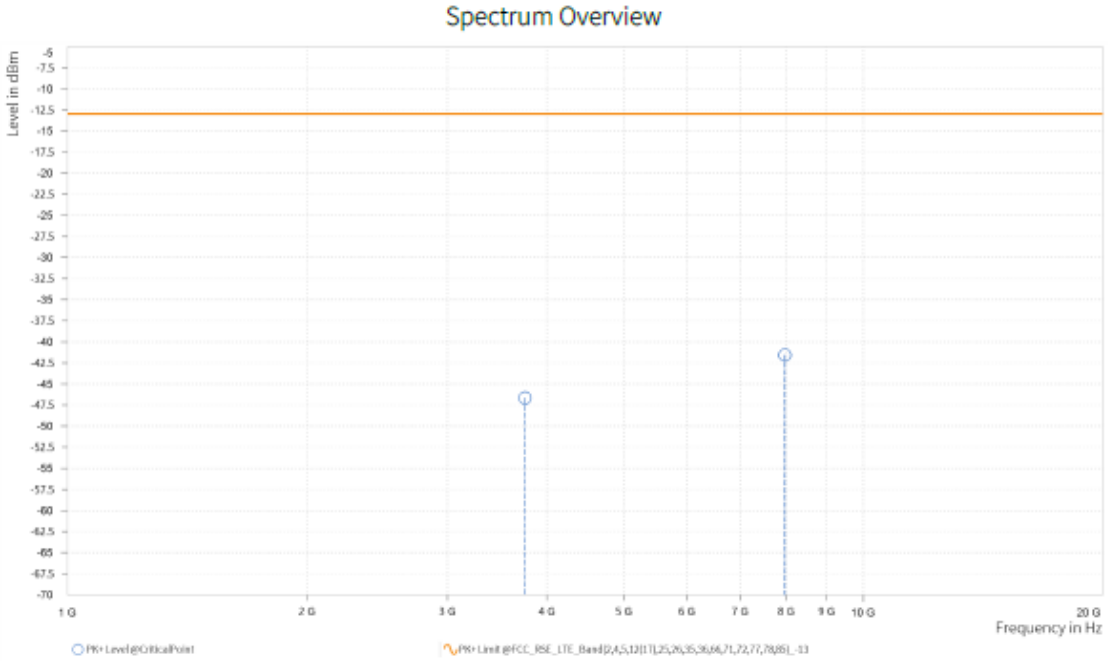
MODE	TX channel 26365	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,756.000	-46.39	-13.00	33.39	25.91	H	168.1	2
5	7,028.424	-42.05	-13.00	29.05	31.86	H	0.9	2



MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

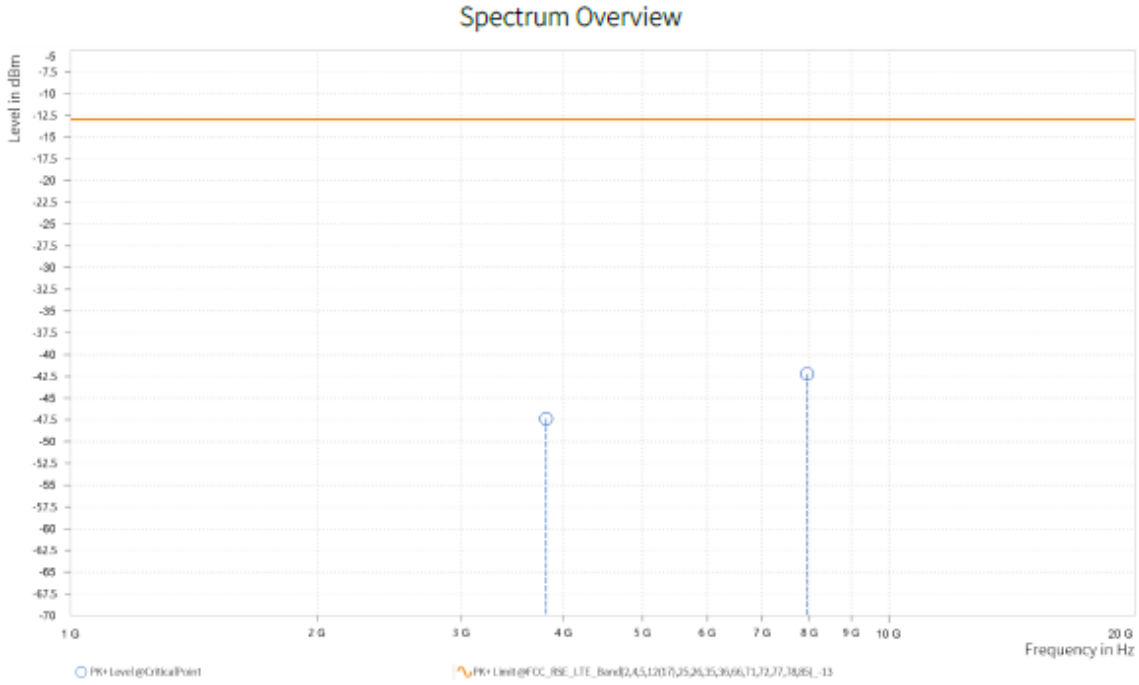
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,756.000	-46.64	-13.00	33.64	25.60	V	359	2
5	7,972.182	-41.56	-13.00	28.56	32.58	V	359	1



CH26640

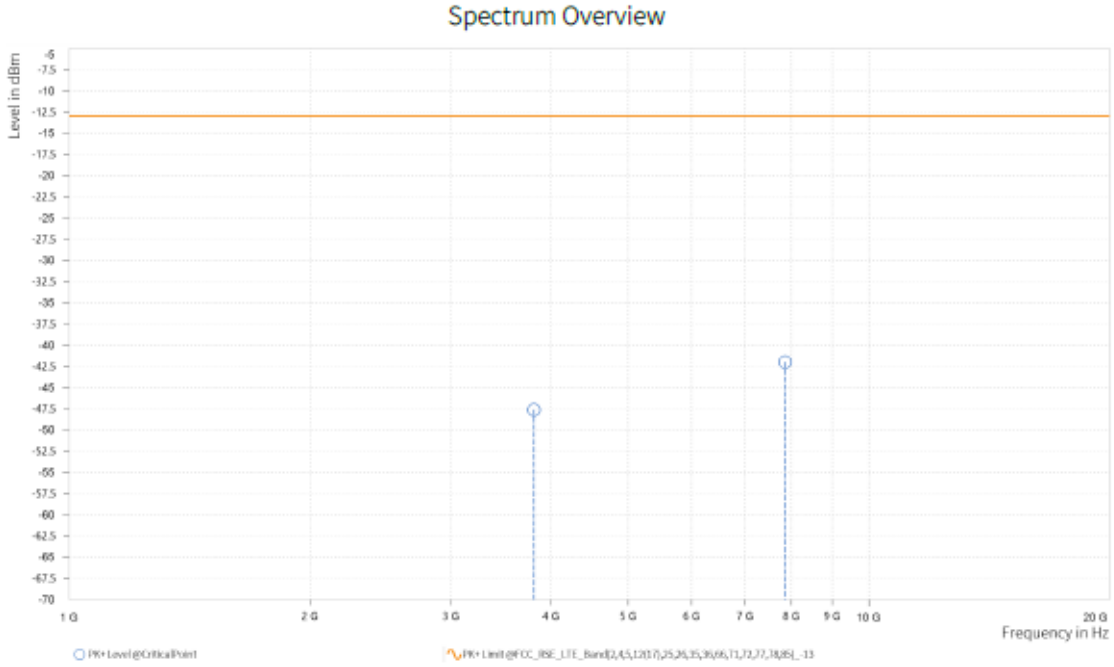
MODE	TX channel 26640	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,811.000	-47.36	-13.00	34.36	26.22	H	244.7	1
5	7,947.455	-42.24	-13.00	29.24	32.47	H	0.9	2



MODE	TX channel 26640	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

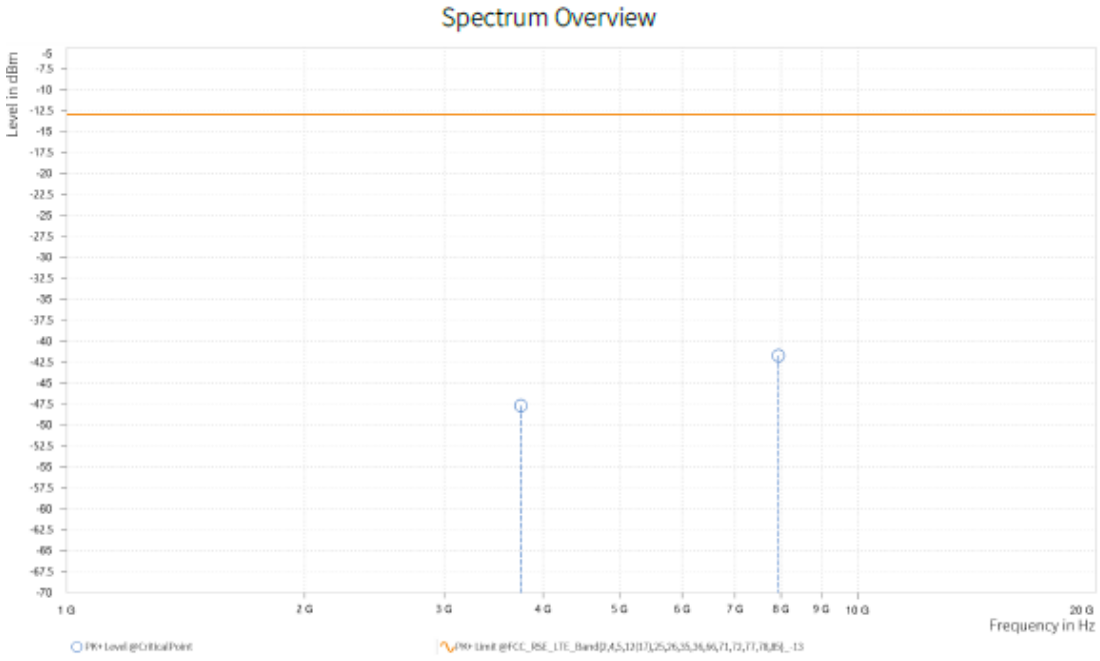
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,811.000	-47.63	-13.00	34.63	25.93	V	1	2
5	7,860.394	-42.00	-13.00	29.00	32.39	V	279.3	2



CHANNEL BANDWIDTH: 15MHz / QPSK

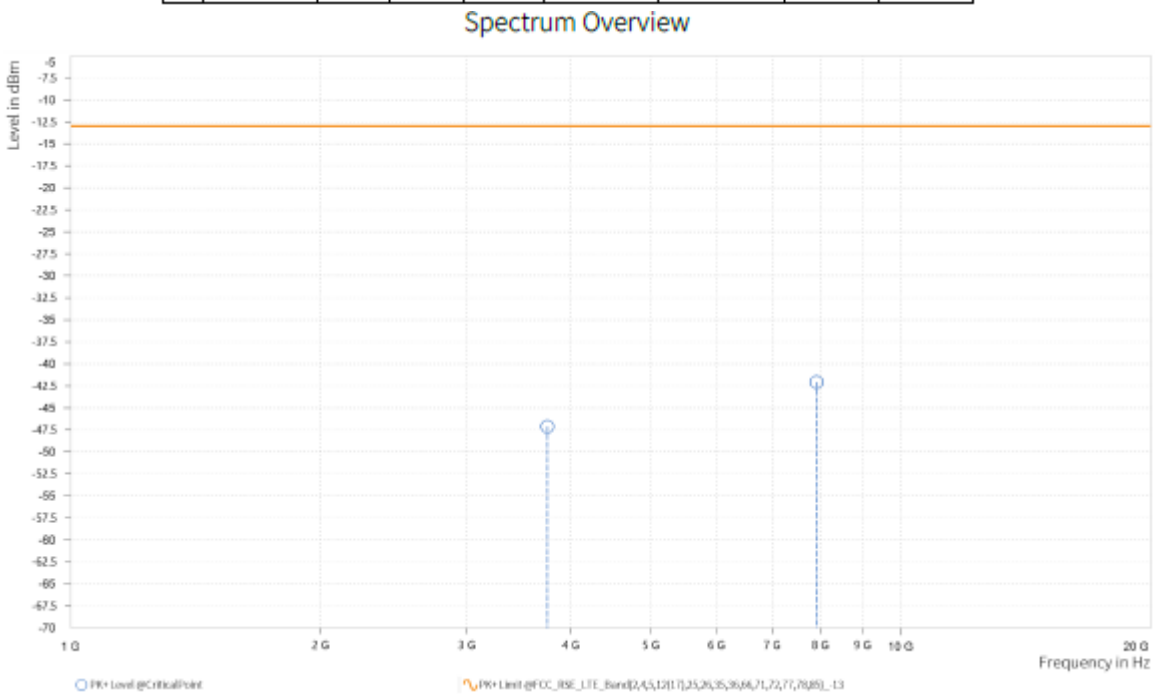
MODE	TX channel 26365	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,751.500	-47.71	-13.00	34.71	25.86	H	0.9	2
5	7,944.621	-41.73	-13.00	28.73	32.46	H	0.9	2



MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

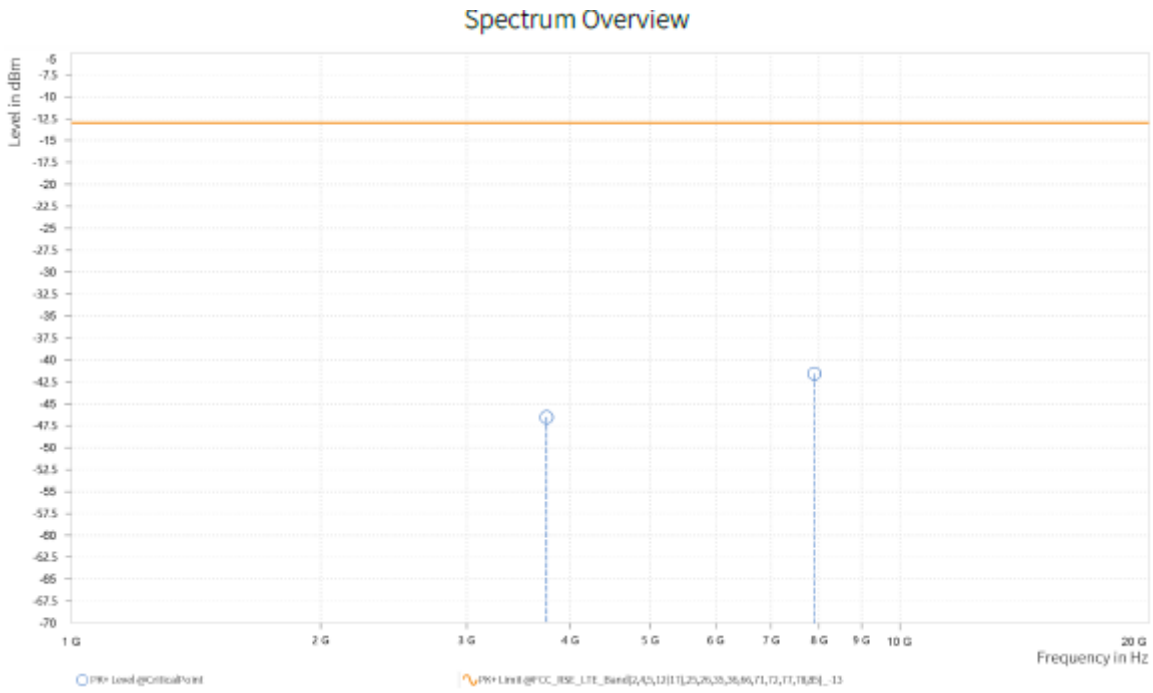
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,751.500	-47.11	-13.00	34.11	25.57	V	359	2
5	7,911.136	-42.07	-13.00	29.07	32.47	V	279.2	2



CHANNEL BANDWIDTH: 20MHz / QPSK

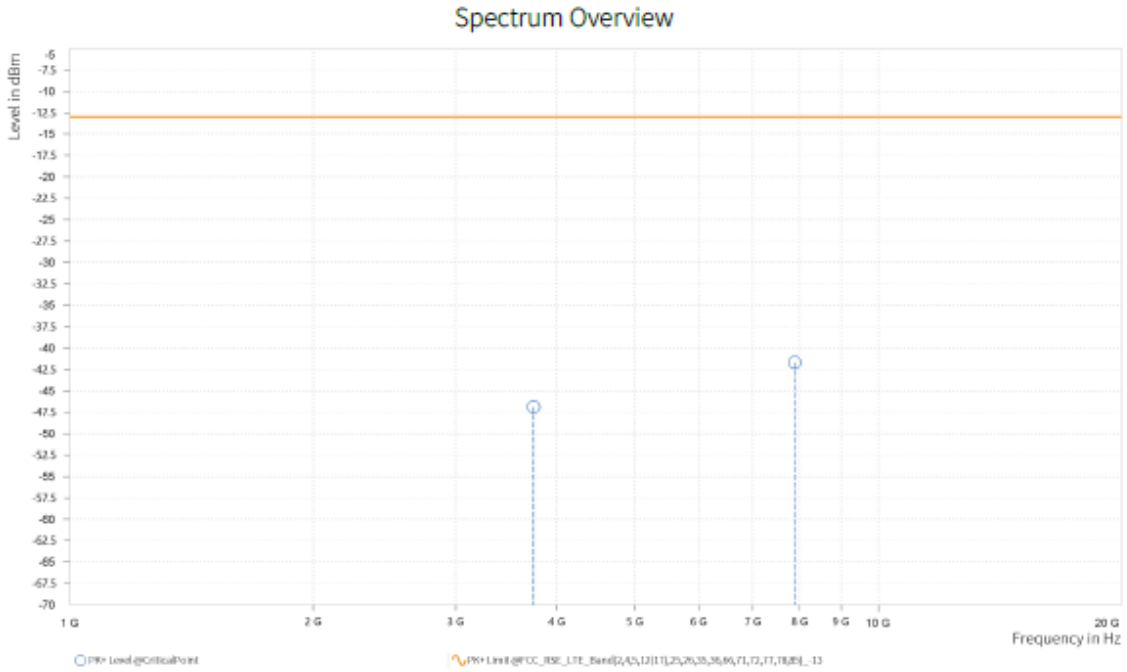
MODE	TX channel 26365	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,747.000	-46.53	-13.00	33.53	25.82	H	359	2
5	7,889.242	-41.58	-13.00	28.58	32.31	H	333	1



MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

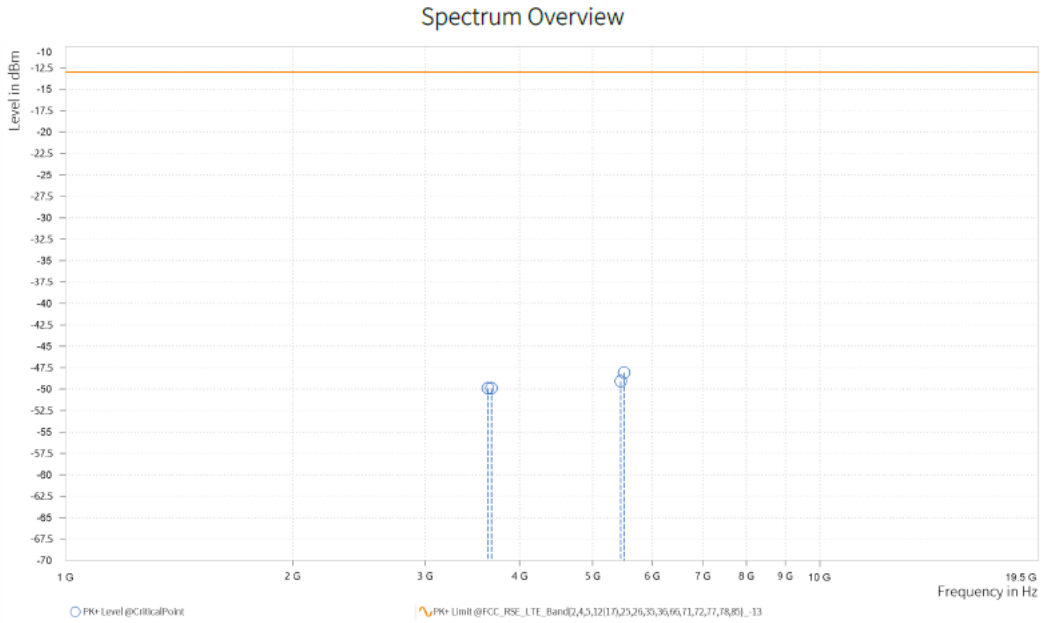
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,747.000	-46.88	-13.00	33.88	25.54	V	1	2
5	7,888.212	-41.69	-13.00	28.69	32.43	V	280.4	2



LTE BAND CA 2C
CHANNEL BANDWIDTH: 20+20MHz / QPSK
CH 18700/ 18898

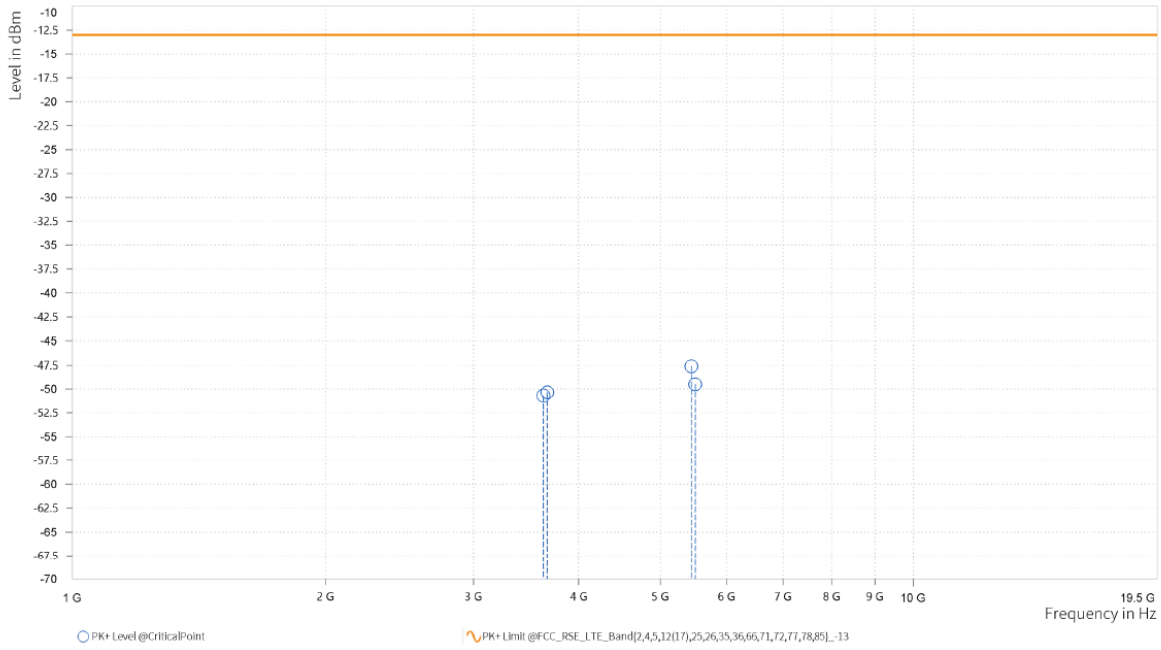
MODE	TX channel 18700/ 18898	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,630.000	-49.90	-13.00	36.90	24.86	H	29.4	2
4	3,669.600	-49.90	-13.00	36.90	24.73	H	0.9	2
4	5,445.000	-49.09	-13.00	36.09	27.48	H	339.6	1
4	5,504.400	-48.08	-13.00	35.08	27.55	H	359	1



MODE	TX channel 18700/ 18898	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

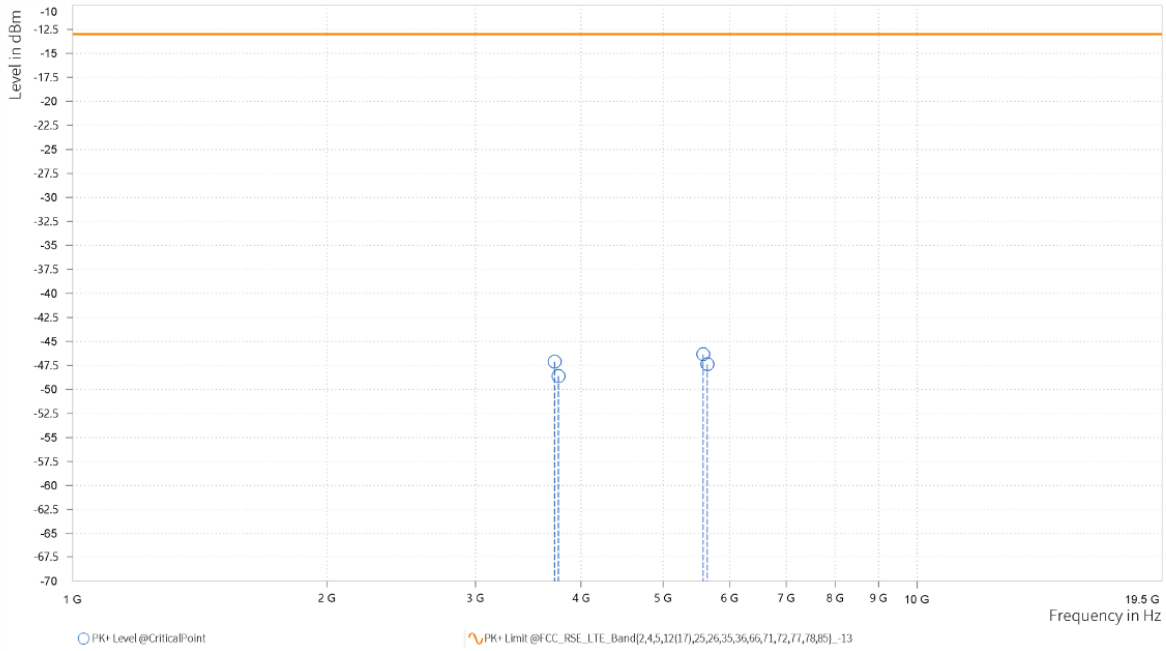
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,630.000	-50.66	-13.00	37.66	24.78	V	359	2
4	3,669.600	-50.34	-13.00	37.34	24.62	V	170.5	1
4	5,445.000	-47.59	-13.00	34.59	27.26	V	337.5	1
4	5,504.400	-49.47	-13.00	36.47	27.31	V	1	1



CH 18801/ 18999

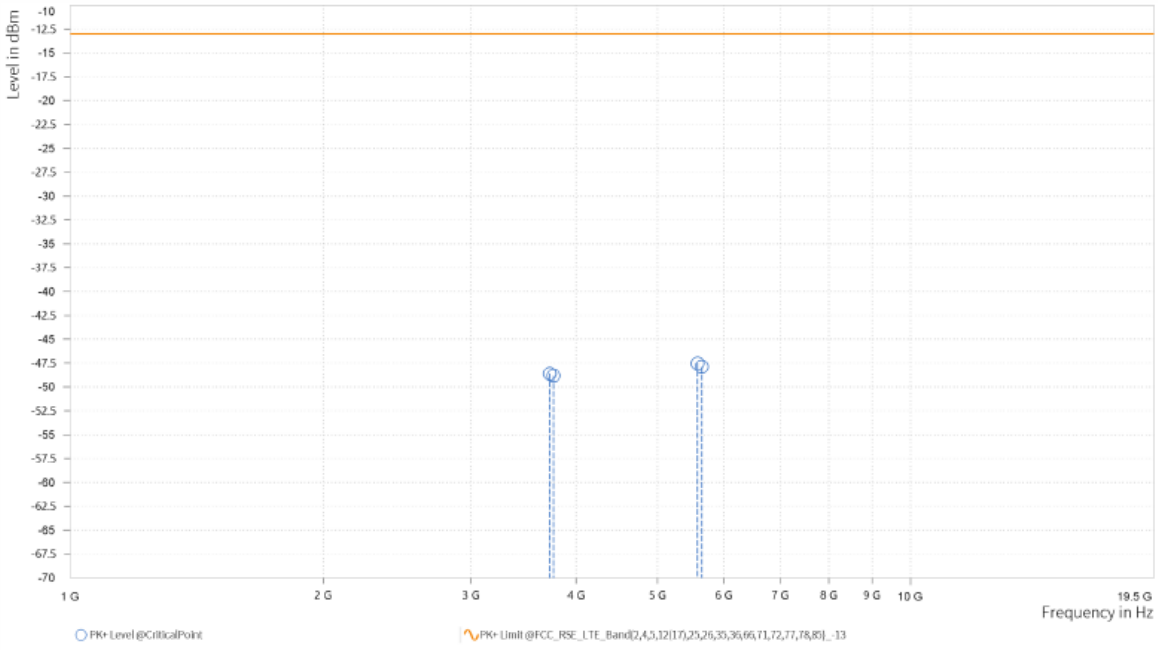
MODE	TX channel 18801/ 18999	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,722.000	-47.11	-13.00	34.11	25.58	H	0.9	2
4	3,761.500	-48.61	-13.00	35.61	25.95	H	354.6	1
4	5,583.000	-46.35	-13.00	33.35	28.33	H	0.9	2
4	5,643.500	-47.38	-13.00	34.38	28.17	H	0.9	2



MODE	TX channel 18801/ 18999	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

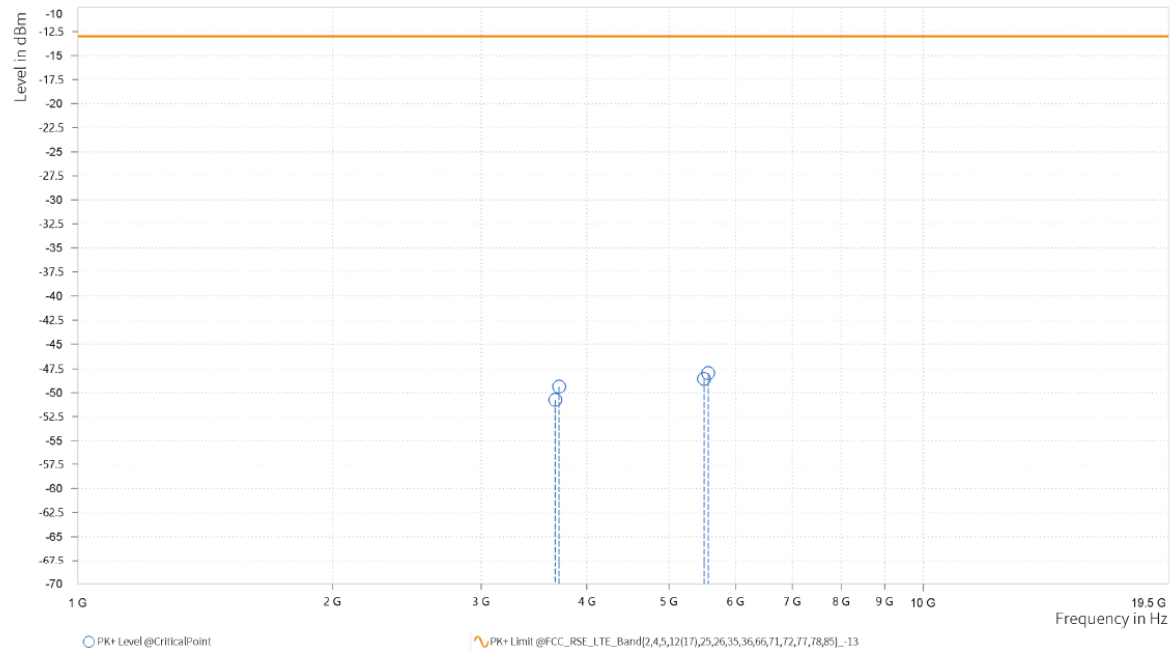
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,721.500	-48.60	-13.00	35.60	25.34	V	359	1
4	3,761.500	-48.82	-13.00	35.82	25.63	V	0.9	2
4	5,582.500	-47.53	-13.00	34.53	28.06	V	162.2	1
4	5,643.000	-47.89	-13.00	34.89	27.91	V	359	1



CH 18902/ 19100

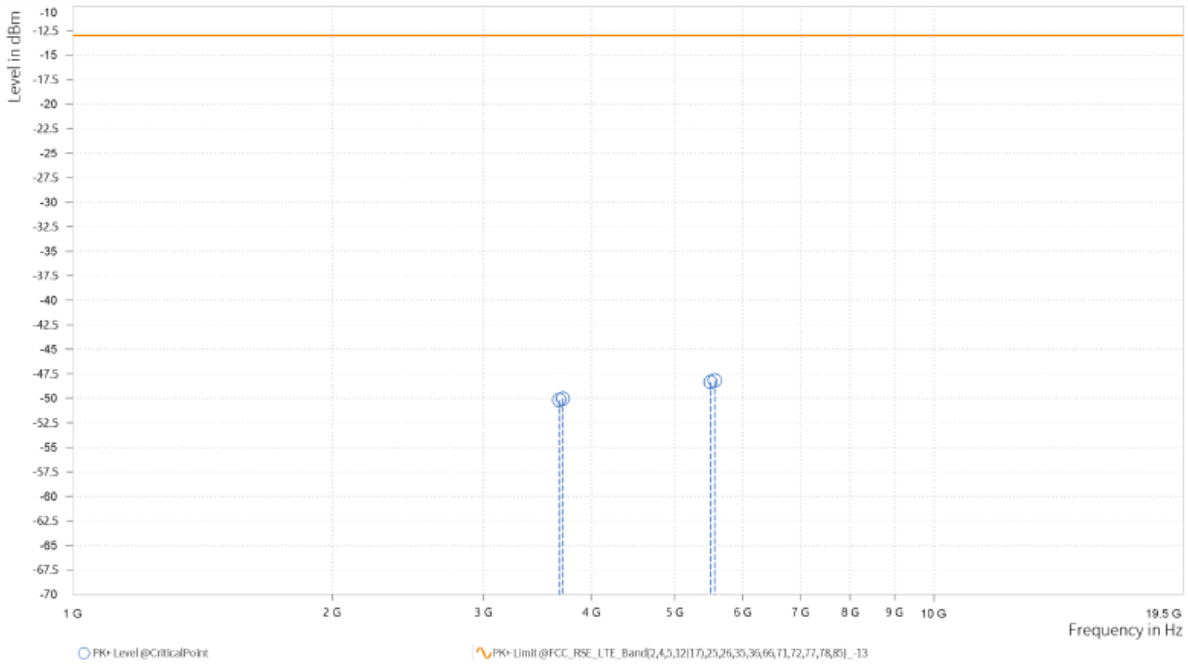
MODE	TX channel 18902/ 19100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,670.400	-50.73	-13.00	37.73	24.74	H	1	2
4	3,710.000	-49.34	-13.00	36.34	25.38	H	197.9	2
4	5,505.600	-48.55	-13.00	35.55	27.56	H	1	2
4	5,565.000	-47.93	-13.00	34.93	28.05	H	31.8	2



MODE	TX channel 18902/ 19100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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]
4	3,670.400	-50.17	-13.00	37.17	24.63	V	0.9	2
4	3,710.000	-50.01	-13.00	37.01	25.18	V	24.7	2
4	5,505.600	-48.36	-13.00	35.36	27.31	V	345.2	1
4	5,565.000	-48.18	-13.00	35.18	27.80	V	359.1	1



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.

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.

--END--