FCC TEST REPORT

(PART 22)

Applicant:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA

Manufacturer or Supplier:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Product:	FE5NA0020
Brand Name:	Continental
Model Name:	FE5NA0020
FCC ID:	LHJ-FE5NA0020
Date of tests:	Jun. 16, 2021 ~ Nov. 03, 2021

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

☒ **FCC PART 22, Subpart H** ☒ **FCC Part 2**
☒ **ANSI/TIA/EIA-603-D** ☒ **ANSI C63.26-2015**
☒ **ANSI/TIA/EIA-603-E**

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 Date: Nov. 04, 2021	Luke Lu Date: Nov. 04, 2021

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P20210616-3RF01	Original release	Nov. 04, 2021

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2		
STANDARD SECTION	**TEST TYPE**	**RESULT**
§2.1046	Conducted Output Power	Compliance
§22.913 (a)(5)	Effective Radiated Power	Compliance
§2.1055 §22.355	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§22.913 (d)	Peak to average ratio*	Compliance
§22.917(a)	Band Edge Measurements	Compliance
§2.1051 §22.917(a)	Conducted Spurious Emissions	Compliance
§2.1053 §22.917(a)	Radiated Spurious Emissions	Compliance

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

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
Maximum Peak Output Power	±2.06dB
Frequency Stability	±76.97Hz
Radiated emissions (30MHz~1GMHz)	±4.98dB
Radiated emissions (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Band Edge Measurements	±4.70dB
Peak to average ratio	±0.76dB

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.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 22,21	Apr. 21,22
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 03,21	Jun. 02,22
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-051	Feb. 14.20	Feb. 13.23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,21	Mar. 04,22
Horn Antenna	ETS-LINDGREN	3117	00168692	Apr. 02,21	Apr. 01,22
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 26, 20	Aug. 25, 21
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 25, 21	Aug. 24, 22
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 25,21	Feb. 24,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 03,21	Jun. 02,22
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 22,21	Apr. 21,22
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 03,21	Jun. 02,22
Power Meter	Anritsu	ML2495A	1506002	Apr. 07,21	Apr. 06,22
Power Sensor	Anritsu	MA2411B	1339352	May. 07,21	May. 06,22
Temperature Chamber	ESPEC	SH-242	93000855	Jun. 02,21	Jun. 01,22
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Mar. 05,21	Mar. 04,22
Power Divider	MCLI/USA	PS2-15	24880	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months or 36months 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 525120; The Designation No. is CN1171.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	FE5NA0020	
BRAND NAME	Continental	
MODEL NAME	FE5NA0020	
NOMINAL VOLTAGE	EUT 4.0V	
MODULATION TYPE	**GSM/GPRS/EDGE**	GMSK, 8PSK
	WCDMA	QPSK
	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	**GSM/GPRS/EDGE**	824.2MHz ~ 848.8MHz
	WCDMA	826.4MHz ~ 846.6MHz
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 5 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 5 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 5 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
	LTE Band CA_5B Channel Bandwidth: 3MHz+5MHz	825.6MHz ~ 846.5MHz
	LTE Band CA_5B Channel Bandwidth: 5MHz+3MHz	826.5MHz ~ 847.4MHz
	LTE Band CA_5B Channel Bandwidth: 5MHz+10MHz	826.8MHz ~ 844MHz
	LTE Band CA_5B Channel Bandwidth: 10MHz+5MHz	829MHz ~ 846.2MHz
	LTE Band CA_5B Channel Bandwidth: 10MHz+10MHz	829MHz ~ 844MHz
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 26 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 26 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 26 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz

	LTE Band 26 (Channel Bandwidth: 15MHz)	831.5MHz ~ 841.5MHz
MAX. ERP POWER	**GSM/GPRS**	1224.62mW
	EDGE	309.74mW
	WCDMA	145.21mW
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	128.23mW
	LTE Band 5 (Channel Bandwidth: 3MHz)	127.94mW
	LTE Band 5 (Channel Bandwidth: 5MHz)	129.12mW
	LTE Band 5 (Channel Bandwidth: 10MHz)	129.42mW
	LTE Band CA_5B Channel Bandwidth: 3MHz+5MHz	103.99mW
	LTE Band CA_5B Channel Bandwidth: 5MHz+3MHz	123.88mW
	LTE Band CA_5B Channel Bandwidth: 5MHz+10MHz	122.46mW
	LTE Band CA_5B Channel Bandwidth: 10MHz+5MHz	121.62mW
	LTE Band CA_5B Channel Bandwidth: 10MHz+10MHz	124.74mW
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	124.45mW
	LTE Band 26 (Channel Bandwidth: 3MHz)	123.88mW
	LTE Band 26 (Channel Bandwidth: 5MHz)	123.03mW
	LTE Band 26 (Channel Bandwidth: 10MHz)	123.88mW
	LTE Band 26 (Channel Bandwidth: 15MHz)	125.31mW
EMISSION DESIGNATORGOGN	**GSM/GPRS**	247KGXW
	EDGE	245KGXW
	WCDMA	4M18F9W
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	QPSK: 1M11G7D
		16QAM: 1M11W7D
		64QAM: 1M11W7D
	LTE Band 5 (Channel Bandwidth: 3MHz)	QPSK: 2M74G7D
		16QAM: 2M75W7D
		64QAM: 2M75W7D

	LTE Band 5 (Channel Bandwidth: 5MHz)	QPSK: 4M55G7D
		16QAM: 4M57W7D
		64QAM: 4M56W7D
	LTE Band 5 (Channel Bandwidth: 10MHz)	QPSK: 9M08G7D
		16QAM: 9M05W7D
		64QAM:9M05W7D
	LTE Band CA_5B Channel Bandwidth: 3MHz+5MHz	QPSK: 8M58G7D
		16QAM: 8M47W7D
		64QAM: 8M47W7D
	LTE Band CA_5B Channel Bandwidth: 5MHz+3MHz	QPSK: 8M57G7D
		16QAM: 8M47W7D
		64QAM: 8M48W7D
	LTE Band CA_5B Channel Bandwidth: 5MHz+10MHz	QPSK: 8M57G7D
		16QAM: 8M47W7D
		64QAM: 8M48W7D
	LTE Band CA_5B Channel Bandwidth: 10MHz+5MHz	QPSK: 14M6G7D
		16QAM: 14M6W7D
		64QAM: 14M6W7D
	LTE Band CA_5B Channel Bandwidth: 10MHz+10MHz	QPSK: 19M3G7D
		16QAM: 19M3W7D
		64QAM: 19M2W7D
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	QPSK: 1M12G7D
		16QAM: 1M11W7D
		64QAM: 1M11W7D
	LTE Band 26 (Channel Bandwidth: 3MHz)	QPSK: 2M75G7D
		16QAM: 2M74W7D
		64QAM: 2M75W7D
	LTE Band 26 (Channel Bandwidth: 5MHz)	QPSK: 4M57G7D
		16QAM:4M56W7D
		64QAM: 4M56W7D
	LTE Band 26 (Channel Bandwidth: 10MHz)	QPSK: 9M06G7D
		16QAM: 9M06W7D
		64QAM: 9M06W7D
	LTE Band 26 (Channel Bandwidth: 15MHz)	QPSK: 13M6G7D
		16QAM: 13M6W7D
		64QAM: 13M6W7D
ANTENNA TYPE	Monopole Antenna with 0.58dBi gain for GSM850/ WCDMA V/LTE B5/LTE 5B/LTE B26	
HW VERSION	P4.1	
SW VERSION	MODEMSA515M_01.15.62	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	

EXTREME TEMPERATURE	-40-85 ℃
EXTREME VOLTAGE	EUT 3.8V - EUT 4.2V

NOTE:

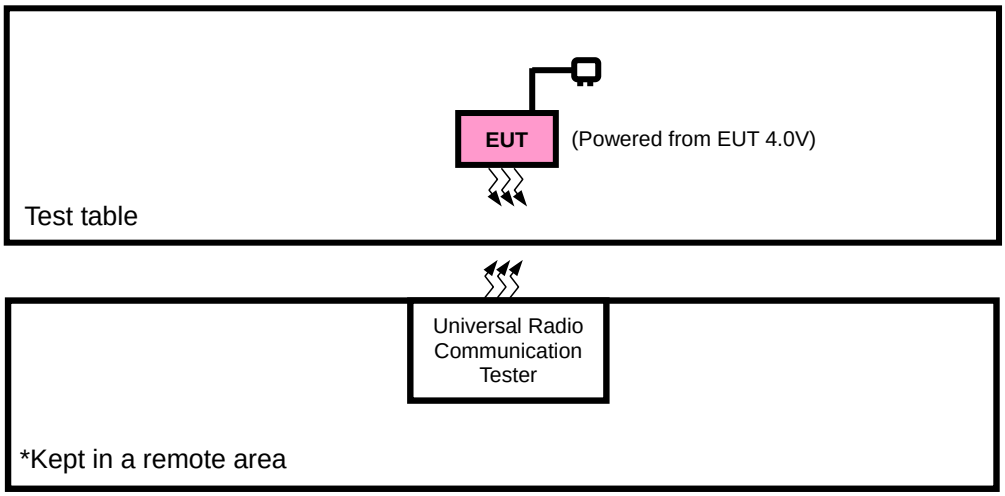
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
GSM/GPRS/EDGE	1TX/2RX
WCDMA	1TX/2RX
LTE	1TX/4RX

3. 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



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	DC source	Kikusui/JP	PMX18-5A	0000001	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m

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 ERP and radiated emission was found when positioned on X-plane for GSM /EDGE /LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + DC Source with GSM or WCDMA or LTE link

GSM MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	ERP	128 to 251	128, 189, 251	GSM,EDGE
A	FREQUENCY STABILITY	128 to 251	128, 251	GSM,EDGE
A	OCCUPIED BANDWIDTH	128 to 251	128, 189, 251	GSM,EDGE
A	BAND EDGE	128 to 251	128, 251	GSM,EDGE
A	CONDUCTED EMISSION	128 to 251	128, 189, 251	GSM,EDGE
A	RADIATED EMISSION	128 to 251	128, 189, 251	GSM,EDGE
A	PEAK TO AVERAGE RATIO	128 to 251	128, 189, 251	GSM,EDGE

WCDMA MODE

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EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
A	FREQUENCY STABILITY	4132 to 4233	4132, 4233	WCDMA
A	OCCUPIED BANDWIDTH	4132 to 4233	4132, 4182, 4233	WCDMA
A	BAND EDGE	4132 to 4233	4132, 4182, 4233	WCDMA
A	CONDUCTED EMISSION	4132 to 4233	4132, 4233	WCDMA
A	RADIATED EMISSION	4132 to 4233	4132, 4182, 4233	WCDMA
A	PEAK TO AVERAGE RATIO	4132 to 4233	4132, 4182, 4233	WCDMA

LTE BAND 5 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
A	FREQUENCY STABILITY	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	6 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	15 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	6 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	15 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
A	BAND EDGE	20407 to 20643	20407	1.4 MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
		20407 to 20643	20643	1.4 MHz	QPSK,16QAM,64QAM	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		20415 to 20635	20415	3 MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
		20415 to 20635	20635	3 MHz	QPSK,16QAM,64QAM	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		20425 to 20625	20425	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
		20425 to 20625	20625	5MHz	QPSK,16QAM,64QAM	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		20450 to 20600	20450	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
						50 RB / 0 RB Offset
		20450 to 20600	20600	10MHz	QPSK,16QAM,64QAM	1 RB / 49 RB Offset
						50 RB / 0 RB Offset

A	CONDUCTED EMISSION	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	20407 to 20643	20525	1.4MHz	QPSK	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB / 0 RB Offset
		20425 to 20625	20525	5MHz	QPSK	1 RB / 0 RB Offset
		20450 to 20600	20525	10MHz	QPSK	1 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	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_5B MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	ERP	20416 to 20586	20455 to 20625	Low, Middle, High	3MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 14RB Offset	1RB/ 0RB Offset
		20425 to 20595	20464 to 20634	Low, Middle, High	5MHz+3MHz	QPSK, 16QAM, 64QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		20428 to 20528	20500 to 20600	Low, Middle, High	5MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		20450 to 20550	20522 to 20622	Low, Middle, High	10MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		20450 to 20501	20549 to 20600	Low, Middle, High	10MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB&1RB/ 49RB Offset	1RB/ 49RB&0RB/ 0RB&1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	20416 to 20586	20455 to 20625	Low, Middle, High	3MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 14RB Offset	1RB/ 0RB Offset
		20425 to 20595	20464 to 20634	Low, Middle, High	5MHz+3MHz	QPSK, 16QAM, 64QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		20428 to 20528	20500 to 20600	Low, Middle, High	5MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		20450 to 20550	20522 to 20622	Low, Middle, High	10MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		20450 to 20501	20549 to 20600	Low, Middle, High	10MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB&1RB/ 49RB Offset	1RB/ 49RB&0RB/ 0RB&1RB/ 0RB Offset
A	BAND EDGE	20416 to 20586	20455 to 20625	Low	3MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 24RB Offset
							1RB/ 14RB Offset	1RB/ 0RB Offset
							15RB/ 0RB Offset	25RB/ 0RB Offset

				High	3MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 24RB Offset
							1RB/ 14RB Offset	1RB/ 0RB Offset
							15RB/ 0RB Offset	25RB/ 0RB Offset
		20425 to 20595	20464 to 20634	Low	5MHz+3MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 14RB Offset
							1RB/ 24RB Offset	1RB/ 0RB Offset
							25RB/ 0RB Offset	15RB/ 0RB Offset
				High	5MHz+3MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 14RB Offset
							1RB/ 24RB Offset	1RB/ 0RB Offset
							25RB/ 0RB Offset	15RB/ 0RB Offset
		20428 to 20528	20500 to 20600	Low	5MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset
							1RB/ 24RB Offset	1RB/ 0RB Offset
							25RB/ 0RB Offset	50RB/ 0RB Offset
				High	5MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset
							1RB/ 24RB Offset	1RB/ 0RB Offset
							25RB/ 0RB Offset	50RB/ 0RB Offset
		20450 to 20550	20522 to 20622	Low	10MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 24RB Offset
							1RB/ 49RB Offset	1RB/ 0RB Offset
							50RB/ 0RB Offset	25RB/ 0RB Offset
				High	10MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 24RB Offset
							1RB/ 49RB Offset	1RB/ 0RB Offset
							50RB/ 0RB Offset	25RB/ 0RB Offset
		20450 to 20501	20549 to 20600	Low	10MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset
							1RB/ 49RB Offset	1RB/ 0RB Offset
							50RB/ 0RB Offset	50RB/ 0RB Offset
				High	10MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset
							1RB/ 49RB Offset	1RB/ 0RB Offset
							50RB/ 0RB Offset	50RB/ 0RB Offset
A	CONDCUDETED EMISSION	20416 to 20586	20455 to 20625	Low, Middle, High	3MHz+5MHz	QPSK	1RB/ 14RB Offset	1RB/ 0RB Offset

		20425 to 20595	20464 to 20634	Low, Middle, High	5MHz+3MHz	QPSK	1RB/ 24RB Offset	1RB/ 0RB Offset
		20428 to 20528	20500 to 20600	Low, Middle, High	5MHz+10MHz	QPSK	1RB/ 24RB Offset	1RB/ 0RB Offset
		20450 to 20550	20522 to 20622	Low, Middle, High	10MHz+5MHz	QPSK	1RB/ 49RB Offset	1RB/ 0RB Offset
		20450 to 20501	20549 to 20600	Low, Middle, High	10MHz+10MHz	QPSK	1RB/ 0RB&1RB/ 49RB Offset	1RB/ 49RB&0RB/ 0RB&1RB/ 0RB Offset
A	RADIATED EMISSION	20416 to 20586	20455 to 20625	Low, Middle, High	3MHz+5MHz	QPSK	1RB/ 14RB Offset	1RB/ 0RB Offset
		20425 to 20595	20464 to 20634	Low, Middle, High	5MHz+3MHz	QPSK	1RB/ 24RB Offset	1RB/ 0RB Offset
		20428 to 20528	20500 to 20600	Low, Middle, High	5MHz+10MHz	QPSK	1RB/ 24RB Offset	1RB/ 0RB Offset
		20450 to 20550	20522 to 20622	Low, Middle, High	10MHz+5MHz	QPSK	1RB/ 49RB Offset	1RB/ 0RB Offset
		20450 to 20501	20549 to 20600	Low, Middle, High	10MHz+10MHz	QPSK	1RB/ 0RB&1RB/ 49RB Offset	1RB/ 49RB&0RB/ 0RB&1RB/ 0RB Offset

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

LTE BAND 26 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
A	FREQUENCY STABILITY	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,16QAM,64QAM	6 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK,16QAM,64QAM	15 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK,16QAM,64QAM	75 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,16QAM,64QAM	6 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK,16QAM,64QAM	15 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK,16QAM,64QAM	75 RB / 0 RB Offset
A	BAND EDGE	26797 to 27033	26797	1.4 MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
		26797 to 27033	27033	1.4 MHz	QPSK,16QAM,64QAM	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		26805 to 27025	26805	3 MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
		26805 to 27025	27025	3 MHz	QPSK,16QAM,64QAM	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		26815 to 27015	26815	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
		26815 to 27015	27015	5MHz	QPSK,16QAM,64QAM	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		26840 to 26990	26840	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
						50 RB / 0 RB Offset

		26840 to 26990	26990	10MHz	QPSK,16QAM,64QAM	1 RB / 49 RB Offset
						50 RB / 0 RB Offset
		26865 to 26965	26865	15MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
						75 RB / 0 RB Offset
		26865 to 26965	26965	15MHz	QPSK,16QAM,64QAM	1 RB / 74 RB Offset
						75 RB / 0 RB Offset
A	CONDCUDETED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK	1 RB / 0 RB Offset
		26805 to 27025	26915	3MHz	QPSK	1 RB / 0 RB Offset
		26815 to 27015	26915	5MHz	QPSK	1 RB / 0 RB Offset
		26840 to 26990	26915	10MHz	QPSK	1 RB / 0 RB Offset
		26865 to 26965	26915	15MHz	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.

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	EUT 4.0V	Jace Hu
FREQUENCY STABILITY	23deg. C, 70%RH	EUT 4.0V	James Fu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	EUT 4.0V	James Fu
BAND EDGE	23deg. C, 70%RH	EUT 4.0V	James Fu
CONDUCTED EMISSION	23deg. C, 70%RH	EUT 4.0V	James Fu
RADIATED EMISSION	23deg. C, 70%RH	EUT 4.0V	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	EUT 4.0V	James Fu

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 22

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 / Portable station are limited to 7 watts e.r.p.

3.1.2 TEST PROCEDURES

EIRP / ERP 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.

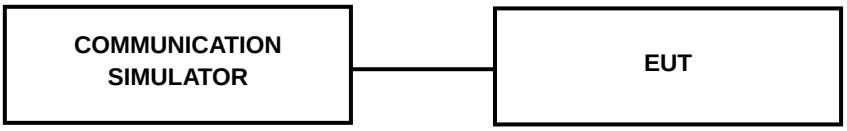
CONDUCTED POWER MEASUREMENT:

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

CONDUCTED OUTPUT POWER (dBm)

Band	GSM850			Max. Tune-up Power
Channel	128	189	251	
Frequency	824.2	836.4	848.8	
GSM (GMSK, 1Tx-slot)	32.03	32.35	32.38	33.5
GPRS (GMSK, 1Tx-slot)	32.09	32.43	**32.45**	33.5
GPRS (GMSK, 2Tx-slot)	29.51	29.86	29.89	30.5
GPRS (GMSK, 3Tx-slot)	28.06	28.47	28.50	29.0
GPRS (GMSK, 4Tx-slot)	26.45	26.70	26.74	27.5
EDGE (8PSK, 1Tx-slot)	26.25	26.43	26.48	27.5
EDGE (8PSK, 2Tx-slot)	24.65	24.69	24.87	25.5
EDGE (8PSK, 3Tx-slot)	23.68	23.73	23.83	24.5
EDGE (8PSK, 4Tx-slot)	22.66	22.69	22.74	23.5

Band	WCDMA V			Max. Tune-up Power
Channel	4132	4182	4233	
Frequency	826.4	836.4	846.6	
RMC 12.2K	22.78	23.03	**23.19**	24.0
HSDPA Subtest-1	21.73	21.87	21.97	23.0
HSDPA Subtest-2	21.63	21.81	21.92	23.0
HSDPA Subtest-3	21.11	21.29	21.40	22.5
HSDPA Subtest-4	21.02	21.20	21.38	22.5
DC-HSDPA Subtest-1	21.63	21.79	21.90	23.0
DC-HSDPA Subtest-2	21.53	21.71	21.90	23.0
DC-HSDPA Subtest-3	21.19	21.33	21.48	22.5
DC-HSDPA Subtest-4	21.13	21.32	21.41	22.5
HSUPA Subtest-1	21.57	21.73	21.90	23.0
HSUPA Subtest-2	19.51	19.72	19.85	21.0
HSUPA Subtest-3	20.53	20.57	20.78	22.0
HSUPA Subtest-4	19.53	19.64	19.77	21.0
HSUPA Subtest-5	21.56	21.70	21.88	23.0

LTE Band 5

Band/BW	Modulation	RB Size	RB Offset	Low CH 20407	Mid CH 20525	High CH 20643	MPR
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz	
5/ 1.4	QPSK	1	0	22.16	22.33	22.48	0
		1	2	22.28	22.34	22.58	0
		1	5	22.34	22.41	22.64	0
		3	0	22.30	22.42	22.62	0
		3	1	22.38	22.59	22.63	0
		3	3	22.34	22.45	22.65	0
		6	0	21.31	21.45	21.60	1
	16QAM	1	0	21.55	21.70	21.89	1
		1	2	21.62	21.77	21.94	1
		1	5	21.69	21.75	22.02	1
		3	0	21.27	21.43	21.55	1
		3	1	21.37	21.63	21.69	1
		3	3	21.32	21.48	21.69	1
		6	0	20.26	20.44	20.57	2
	64QAM	1	0	20.39	20.58	20.78	2
		1	2	20.44	20.71	20.78	2
		1	5	20.56	20.72	20.91	2
		3	0	20.29	20.45	20.54	2
		3	1	20.41	20.67	20.76	2
		3	3	20.38	20.49	20.67	2
		6	0	19.33	19.51	19.64	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20415 Frequency 825.5 MHz	Mid CH 20525 Frequency 836.5 MHz	High CH 20635 Frequency 847.5 MHz	MPR
5/ 3	QPSK	1	0	22.18	22.35	22.47	0
		1	7	22.24	22.35	22.58	0
		1	14	22.30	22.41	22.64	0
		8	0	21.29	21.45	21.62	1
		8	3	21.31	21.59	21.65	1
		8	7	21.31	21.52	21.69	1
		15	0	21.28	21.46	21.54	1
	16QAM	1	0	21.52	21.76	21.92	1
		1	7	21.59	21.80	21.92	1
		1	14	21.72	21.75	22.02	1
		8	0	20.23	20.44	20.55	2
		8	3	20.42	20.58	20.72	2
		8	7	20.34	20.46	20.65	2
		15	0	20.26	20.38	20.60	2
	64QAM	1	0	20.45	20.61	20.72	2
		1	7	20.47	20.65	20.77	2
		1	14	20.57	20.74	20.91	2
		8	0	19.32	19.49	19.55	3
		8	3	19.45	19.61	19.81	3
		8	7	19.35	19.53	19.63	3
		15	0	19.35	19.48	19.68	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20425	Mid CH 20525	High CH 20625	MPR
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz	
5/ 5	QPSK	1	0	22.19	22.30	22.48	0
		1	12	22.29	22.32	22.58	0
		1	24	22.31	22.40	22.68	0
		12	0	21.32	21.45	21.59	1
		12	6	21.31	21.60	21.66	1
		12	13	21.35	21.48	21.70	1
		25	0	21.26	21.49	21.57	1
	16QAM	1	0	21.53	21.72	21.92	1
		1	12	21.56	21.83	21.91	1
		1	24	21.72	21.75	22.01	1
		12	0	20.23	20.42	20.52	2
		12	6	20.39	20.62	20.68	2
		12	13	20.29	20.48	20.68	2
		25	0	20.26	20.39	20.57	2
	64QAM	1	0	20.39	20.58	20.78	2
		1	12	20.44	20.71	20.77	2
		1	24	20.50	20.79	20.91	2
		12	0	19.33	19.46	19.54	3
		12	6	19.39	19.68	19.80	3
		12	13	19.39	19.52	19.60	3
		25	0	19.31	19.54	19.66	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20450 Frequency 829 MHz	Mid CH 20525 Frequency 836.5 MHz	High CH 20600 Frequency 844 MHz	MPR
5/ 10	QPSK	1	0	22.24	22.37	22.53	0
		1	24	22.31	22.40	22.60	0
		1	49	22.36	22.48	**22.69**	0
		25	0	21.36	21.50	21.64	1
		25	12	21.40	21.61	21.71	1
		25	25	21.39	21.53	21.71	1
		50	0	21.32	21.51	21.62	1
	16QAM	1	0	21.60	21.77	21.94	1
		1	24	21.64	21.85	21.96	1
		1	49	21.74	21.83	22.03	1
		25	0	20.31	20.48	20.60	2
		25	12	20.45	20.64	20.74	2
		25	25	20.36	20.53	20.70	2
		50	0	20.32	20.46	20.62	2
	64QAM	1	0	20.46	20.63	20.80	2
		1	24	20.52	20.73	20.83	2
		1	49	20.58	20.80	20.93	2
		25	0	19.37	19.51	19.62	3
		25	12	19.47	19.69	19.82	3
		25	25	19.43	19.57	19.68	3
		50	0	19.37	19.56	19.69	3

CA_5B								
Combination 10MHz+5MHz (50RB+25RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20450	20522	QPSK	1	49	1	0	2	22.39
		16QAM	1	49	1	0	2	21.72
		64QAM	1	49	1	0	2	21.18
20500	20572	QPSK	1	49	1	0	2	22.42
		16QAM	1	49	1	0	2	21.75
		64QAM	1	49	1	0	2	21.22
20550	20622	QPSK	1	49	1	0	2	22.34
		16QAM	1	49	1	0	2	21.67
		64QAM	1	49	1	0	2	21.11
Combination 5MHz+10MHz (25RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20428	20500	QPSK	1	24	1	0	2	22.43
		16QAM	1	24	1	0	2	21.66
		64QAM	1	24	1	0	2	21.09
20478	20550	QPSK	1	24	1	0	2	22.43
		16QAM	1	24	1	0	2	21.64
		64QAM	1	24	1	0	2	21.03
20528	20600	QPSK	1	24	1	0	2	22.45
		16QAM	1	24	1	0	2	21.66
		64QAM	1	24	1	0	2	21.05

CA_5B								
Combination 5MHz+3MHz (25RB+15RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20425	20464	QPSK	1	24	1	0	2	22.50
		16QAM	1	24	1	0	2	22.12
		64QAM	1	24	1	0	2	21.73
20510	20549	QPSK	1	24	1	0	2	22.48
		16QAM	1	24	1	0	2	21.82
		64QAM	1	24	1	0	2	21.24
20595	20634	QPSK	1	24	1	0	2	21.79
		16QAM	1	24	1	0	2	21.04
		64QAM	1	24	1	0	2	20.46
Combination 3MHz+5MHz (15RB+25RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20416	20455	QPSK	1	14	1	0	2	21.74
		16QAM	1	14	1	0	2	21.11
		64QAM	1	14	1	0	2	20.42
20501	20540	QPSK	1	14	1	0	2	21.67
		16QAM	1	14	1	0	2	21.06
		64QAM	1	14	1	0	2	20.39
20586	20625	QPSK	1	14	1	0	2	21.41
		16QAM	1	14	1	0	2	20.86
		64QAM	1	14	1	0	2	20.29

CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	0	1	49	1	11.67
			1	0	0	0	1	21.66
			1	49	1	0	2	22.42
		16QAM	1	0	1	49	1	11.31
			1	0	0	0	1	21.02
			1	49	1	0	2	22.08
		64QAM	1	0	1	49	1	11.03
			1	0	0	0	1	20.74
			1	49	1	0	2	21.31
20476	20575	QPSK	1	0	1	49	1	11.64
			1	0	0	0	1	21.66
			1	49	1	0	2	22.53
		16QAM	1	0	1	49	1	11.35
			1	0	0	0	1	20.96
			1	49	1	0	2	21.75
		64QAM	1	0	1	49	1	11.06
			1	0	0	0	1	20.23
			1	49	1	0	2	21.08
20501	20600	QPSK	1	0	1	49	1	11.69
			1	0	0	0	1	21.69
			1	49	1	0	2	21.77
		16QAM	1	0	1	49	1	11.31
			1	0	0	0	1	21.08
			1	49	1	0	2	21.14
		64QAM	1	0	1	49	1	11.07
			1	0	0	0	1	20.53
			1	49	1	0	2	20.75

LTE BAND 26

Band/BW	Modulation	RB Size	RB Offset	Low CH 26797	Mid CH 26915	High CH 27033	MPR
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz	
26/ 1.4	QPSK	1	0	22.05	22.17	22.28	0
		1	2	22.14	22.27	22.43	0
		1	5	22.33	22.36	22.50	0
		3	0	22.11	22.22	22.40	0
		3	1	22.28	22.38	22.44	0
		3	3	22.31	22.43	22.52	0
		6	0	21.26	21.24	21.40	1
	16QAM	1	0	21.42	21.51	21.65	1
		1	2	21.53	21.60	21.78	1
		1	5	21.52	21.60	21.79	1
		3	0	21.08	21.22	21.34	1
		3	1	21.20	21.43	21.51	1
		3	3	21.34	21.41	21.57	1
		6	0	20.19	20.39	20.48	2
	64QAM	1	0	20.30	20.40	20.55	2
		1	2	20.40	20.59	20.68	2
		1	5	20.47	20.52	20.70	2
		3	0	20.08	20.25	20.35	2
		3	1	20.37	20.44	20.52	2
		3	3	20.38	20.46	20.65	2
		6	0	19.23	19.35	19.47	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 26805	Mid CH 26915	High CH 27025	MPR
				Frequency 825.5 MHz	Frequency 836.5 MHz	Frequency 847.5 MHz	
26/ 3	QPSK	1	0	22.07	22.19	22.27	0
		1	7	22.10	22.28	22.43	0
		1	14	22.29	22.36	22.50	0
		8	0	21.10	21.25	21.40	1
		8	3	21.21	21.38	21.46	1
		8	7	21.28	21.50	21.61	1
		15	0	21.23	21.25	21.34	1
	16QAM	1	0	21.39	21.57	21.68	1
		1	7	21.50	21.63	21.76	1
		1	14	21.55	21.60	21.79	1
		8	0	20.04	20.23	20.34	2
		8	3	20.25	20.38	20.54	2
		8	7	20.36	20.39	20.53	2
		15	0	20.19	20.33	20.51	2
	64QAM	1	0	20.36	20.43	20.49	2
		1	7	20.43	20.53	20.67	2
		1	14	20.48	20.54	20.70	2
		8	0	19.11	19.29	19.36	3
		8	3	19.41	19.38	19.57	3
		8	7	19.35	19.50	19.61	3
		15	0	19.25	19.32	19.51	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 26815	Mid CH 26915	High CH 27015	MPR
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz	
26/ 5	QPSK	1	0	22.08	22.14	22.28	0
		1	12	22.15	22.25	22.43	0
		1	24	22.30	22.35	22.54	0
		12	0	21.13	21.25	21.37	1
		12	6	21.21	21.39	21.47	1
		12	13	21.32	21.46	21.62	1
		25	0	21.21	21.28	21.37	1
	16QAM	1	0	21.40	21.53	21.68	1
		1	12	21.47	21.66	21.75	1
		1	24	21.55	21.60	21.78	1
		12	0	20.04	20.21	20.31	2
		12	6	20.22	20.42	20.50	2
		12	13	20.31	20.41	20.56	2
		25	0	20.19	20.34	20.48	2
	64QAM	1	0	20.30	20.40	20.55	2
		1	12	20.40	20.59	20.67	2
		1	24	20.41	20.59	20.70	2
		12	0	19.12	19.26	19.35	3
		12	6	19.35	19.45	19.56	3
		12	13	19.39	19.49	19.58	3
		25	0	19.21	19.38	19.49	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 26840	Mid CH 26915	High CH 26990	MPR
				Frequency 829 MHz	Frequency 836.5 MHz	Frequency 844 MHz	
26/10	QPSK	1	0	22.05	22.17	22.28	0
		1	24	22.15	22.25	22.44	0
		1	49	22.27	22.39	22.50	0
		25	0	21.14	21.24	21.40	1
		25	12	21.27	21.33	21.47	1
		25	25	21.30	21.43	21.61	1
		50	0	21.26	21.28	21.34	1
	16QAM	1	0	21.40	21.50	21.64	1
		1	24	21.52	21.62	21.78	1
		1	49	21.55	21.61	21.75	1
		25	0	20.06	20.19	20.37	2
		25	12	20.26	20.36	20.55	2
		25	25	20.30	20.42	20.53	2
		50	0	20.23	20.33	20.52	2
	64QAM	1	0	20.29	20.41	20.52	2
		1	24	20.45	20.55	20.71	2
		1	49	20.47	20.53	20.67	2
		25	0	19.10	19.23	19.41	3
		25	12	19.42	19.44	19.50	3
		25	25	19.38	19.46	19.60	3
		50	0	19.26	19.34	19.50	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 26865	Mid CH 26915	High CH 26965	MPR
				Frequency 831.5 MHz	Frequency 836.5 MHz	Frequency 841.5 MHz	
26/ 15	QPSK	1	0	22.13	22.21	22.33	0
		1	37	22.17	22.33	22.45	0
		1	74	22.35	22.43	**22.55**	0
		36	0	21.17	21.30	21.42	1
		36	19	21.29	21.40	21.52	1
		36	39	21.36	21.51	21.63	1
		75	0	21.27	21.30	21.42	1
	16QAM	1	0	21.47	21.58	21.70	1
		1	37	21.55	21.68	21.80	1
		1	74	21.57	21.68	21.80	1
		36	0	20.12	20.27	20.39	2
		36	19	20.28	20.44	20.56	2
		36	39	20.38	20.46	20.58	2
		75	0	20.25	20.41	20.53	2
	64QAM	1	0	20.37	20.45	20.57	2
		1	37	20.48	20.61	20.73	2
		1	74	20.49	20.60	20.72	2
		36	0	19.16	19.31	19.43	3
		36	19	19.43	19.46	19.58	3
		36	39	19.43	19.54	19.66	3
		75	0	19.27	19.40	19.52	3

ERP POWER (dBm)

GSM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
128	824.2	32.09	0.58	30.52	1127.2	7
189	836.4	32.43	0.58	30.86	1218.99	7
251	848.8	32.45	0.58	30.88	1224.62	7

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

EDGE

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
128	824.2	26.25	0.58	24.68	293.76	7
189	836.4	26.43	0.58	24.86	306.2	7
251	848.8	26.48	0.58	24.91	309.74	7

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

WCDMA

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
4132	826.4	22.78	0.58	21.21	132.13	7
4182	836.4	23.03	0.58	21.46	139.96	7
4233	846.6	23.19	0.58	21.62	145.21	7

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

LTE BAND 5
CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	22.38	0.58	20.81	120.5	7
20525	836.5	22.59	0.58	21.02	126.47	7
20643	848.3	22.65	0.58	21.08	128.23	7

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	21.69	0.58	20.12	102.8	7
20525	836.5	21.77	0.58	20.2	104.71	7
20643	848.3	22.02	0.58	20.45	110.92	7

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	20.56	0.58	18.99	79.25	7
20525	836.5	20.72	0.58	19.15	82.22	7
20643	848.3	20.91	0.58	19.34	85.9	7

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	22.3	0.58	20.73	118.3	7
20525	836.5	22.41	0.58	20.84	121.34	7
20635	847.5	22.64	0.58	21.07	127.94	7

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	21.72	0.58	20.15	103.51	7
20525	836.5	21.8	0.58	20.23	105.44	7
20635	847.5	22.02	0.58	20.45	110.92	7

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	20.57	0.58	19	79.43	7
20525	836.5	20.74	0.58	19.17	82.6	7
20635	847.5	20.91	0.58	19.34	85.9	7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	22.31	0.58	20.74	118.58	7
20525	836.5	22.4	0.58	20.83	121.06	7
20625	846.5	22.68	0.58	21.11	129.12	7

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	21.72	0.58	20.15	103.51	7
20525	836.5	21.83	0.58	20.26	106.17	7
20625	846.5	22.01	0.58	20.44	110.66	7

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	20.5	0.58	18.93	78.16	7
20525	836.5	20.79	0.58	19.22	83.56	7
20625	846.5	20.91	0.58	19.34	85.9	7

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	22.36	0.58	20.79	119.95	7
20525	836.5	22.48	0.58	20.91	123.31	7
20600	844.0	22.69	0.58	21.12	129.42	7

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	21.74	0.58	20.17	103.99	7
20525	836.5	21.85	0.58	20.28	106.66	7
20600	844.0	22.03	0.58	20.46	111.17	7

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	20.58	0.58	19.01	79.62	7
20525	836.5	20.8	0.58	19.23	83.75	7
20600	844.0	20.93	0.58	19.36	86.3	7

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

LTE BAND CA_5B

CHANNEL BANDWIDTH: 3MHz+5MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20416	825.6	20455	829.5	21.74	0.58	20.17	103.99	7
20501	834.1	20540	838.0	21.67	0.58	20.1	102.33	7
20586	824.6	20625	846.5	21.41	0.58	19.84	96.38	7

CHANNEL BANDWIDTH: 3MHz+5MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20416	825.6	20455	829.5	21.11	0.58	19.54	89.95	7
20501	834.1	20540	838.0	21.06	0.58	19.49	88.92	7
20586	824.6	20625	846.5	20.86	0.58	19.29	84.92	7

CHANNEL BANDWIDTH: 3MHz+5MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20416	825.6	20455	829.5	20.42	0.58	18.85	76.74	7
20501	834.1	20540	838.0	20.39	0.58	18.82	76.21	7
20586	824.6	20625	846.5	20.29	0.58	18.72	74.47	7

CHANNEL BANDWIDTH: 5MHz+3MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20425	826.5	20464	830.4	22.5	0.58	20.93	123.88	7
20510	834.1	20549	838.9	22.48	0.58	20.91	123.31	7
20595	843.5	20634	847.4	21.79	0.58	20.22	105.2	7

CHANNEL BANDWIDTH: 5MHz+3MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20425	826.5	20464	830.4	22.12	0.58	20.55	113.5	7
20510	834.1	20549	838.9	21.82	0.58	20.25	105.93	7
20595	843.5	20634	847.4	21.04	0.58	19.47	88.51	7

CHANNEL BANDWIDTH: 5MHz+3MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20425	826.5	20464	830.4	21.73	0.58	20.16	103.75	7
20510	834.1	20549	838.9	21.24	0.58	19.67	92.68	7
20595	843.5	20634	847.4	20.46	0.58	18.89	77.45	7

CHANNEL BANDWIDTH: 5MHz+10MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20428	826.8	20500	834	22.43	0.58	20.86	121.9	7
20478	831.8	20550	839	22.43	0.58	20.86	121.9	7
20528	836.8	20600	844	22.45	0.58	20.88	122.46	7

CHANNEL BANDWIDTH: 5MHz+10MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20428	826.8	20500	834	21.66	0.58	20.09	102.09	7
20478	831.8	20550	839	21.64	0.58	20.07	101.62	7
20528	836.8	20600	844	21.66	0.58	20.09	102.09	7

CHANNEL BANDWIDTH: 5MHz+10MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20428	826.8	20500	834	21.09	0.58	19.52	89.54	7
20478	831.8	20550	839	21.03	0.58	19.46	88.31	7
20528	836.8	20600	844	21.05	0.58	19.48	88.72	7

CHANNEL BANDWIDTH: 10MHz+5MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20450	829	20522	836.2	22.39	0.58	20.82	120.78	7
20500	834	20572	841.2	22.42	0.58	20.85	121.62	7
20550	839	20622	846.2	22.34	0.58	20.77	119.4	7

CHANNEL BANDWIDTH: 10MHz+5MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20450	829	20522	836.2	21.72	0.58	20.15	103.51	7
20500	834	20572	841.2	21.75	0.58	20.18	104.23	7
20550	839	20622	846.2	21.67	0.58	20.1	102.33	7

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)
20450	829	20522	836.2	21.18	0.58	19.61	91.41	7
20500	834	20572	841.2	21.22	0.58	19.65	92.26	7
20550	839	20622	846.2	21.11	0.58	19.54	89.95	7

CHANNEL BANDWIDTH: 10MHz+10MHz QPSK

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20450	829	20549	838.9	22.42	0.58	20.85	121.62	7
20476	831.6	20575	841.5	22.53	0.58	20.96	124.74	7
20501	834.1	20600	844	21.77	0.58	20.2	104.71	7

CHANNEL BANDWIDTH: 10MHz+10MHz 16QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20450	829	20549	838.9	22.08	0.58	20.51	112.46	7
20476	831.6	20575	841.5	21.75	0.58	20.18	104.23	7
20501	834.1	20600	844	21.14	0.58	19.57	90.57	7

CHANNEL BANDWIDTH: 10MHz+10MHz 64QAM

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20450	829	20549	838.9	21.31	0.58	19.74	94.19	7
20476	831.6	20575	841.5	21.08	0.58	19.51	89.33	7
20501	834.1	20600	844	20.75	0.58	19.18	82.79	7

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CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26797	824.7	22.33	0.58	20.76	119.12	7
26915	836.5	22.43	0.58	20.86	121.90	7
27033	848.3	22.52	0.58	20.95	124.45	7

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26797	824.7	21.53	0.58	19.96	99.08	7
26915	836.5	21.60	0.58	20.03	100.69	7
27033	848.3	21.79	0.58	20.22	105.20	7

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26797	824.7	20.47	0.58	18.9	77.62	7
26915	836.5	20.59	0.58	19.02	79.80	7
27033	848.3	20.70	0.58	19.13	81.85	7

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26805	825.5	22.29	0.58	20.72	118.03	7
26915	836.5	22.36	0.58	20.79	119.95	7
27025	847.5	22.50	0.58	20.93	123.88	7

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26805	825.5	21.55	0.58	19.98	99.54	7
26915	836.5	21.63	0.58	20.06	101.39	7
27025	847.5	21.79	0.58	20.22	105.20	7

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26805	825.5	20.48	0.58	18.91	77.80	7
26915	836.5	20.54	0.58	18.97	78.89	7
27025	847.5	20.70	0.58	19.13	81.85	7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26815	826.5	22.30	0.58	20.73	118.30	7
26915	836.5	22.35	0.58	20.78	119.67	7
27015	846.5	22.54	0.58	20.97	125.03	7

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26815	826.5	21.55	0.58	19.98	99.54	7
26915	836.5	21.66	0.58	20.09	102.09	7
27015	846.5	21.78	0.58	20.21	104.95	7

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26815	826.5	20.41	0.58	18.84	76.56	7
26915	836.5	20.59	0.58	19.02	79.80	7
27015	846.5	20.70	0.58	19.13	81.85	7

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26840	829	22.27	0.58	20.7	117.49	7
26915	836.5	22.39	0.58	20.82	120.78	7
26990	844	22.50	0.58	20.93	123.88	7

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26840	829	21.55	0.58	19.98	99.54	7
26915	836.5	21.62	0.58	20.05	101.16	7
26990	844	21.78	0.58	20.21	104.95	7

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26840	829	20.47	0.58	18.9	77.62	7
26915	836.5	20.55	0.58	18.98	79.07	7
26990	844	20.71	0.58	19.14	82.04	7

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26865	831.5	22.35	0.58	20.78	119.67	7
26915	836.5	22.43	0.58	20.86	121.90	7
26965	841.5	22.55	0.58	20.98	125.31	7

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26865	831.5	21.57	0.58	20	100	7
26915	836.5	21.68	0.58	20.11	102.57	7
26965	841.5	21.80	0.58	20.23	105.44	7

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26865	831.5	20.49	0.58	18.92	77.98	7
26915	836.5	20.61	0.58	19.04	80.17	7
26965	841.5	20.73	0.58	19.16	82.41	7

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILIITY MEASUREMENT

1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

3.2.2 TEST PROCEDURE

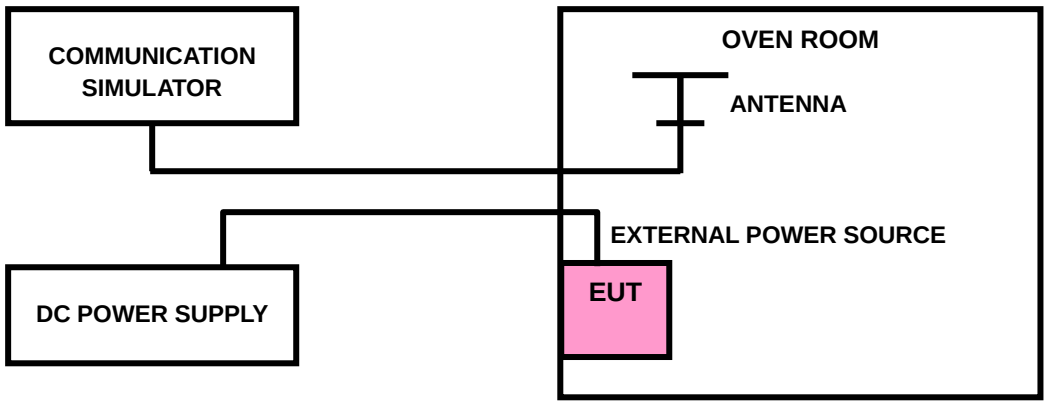
a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

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 A Of this test report.

LTE BAND CA_5B

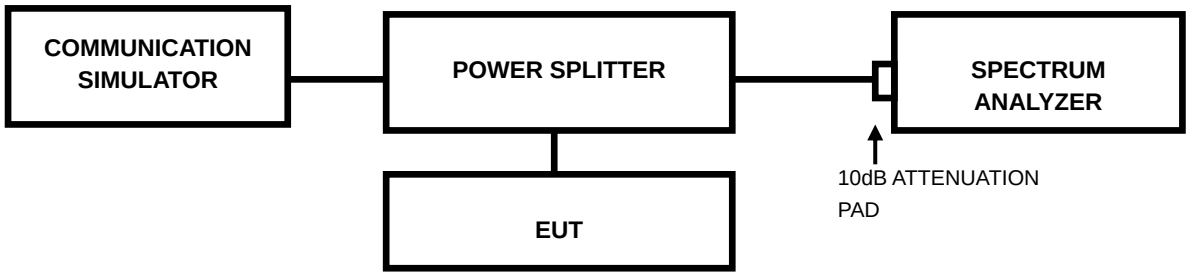
LTE BAND CA_5B channel and Frequency List					
BW(MHz)	**Channel/Frequcncy(MHz)**		**Lowest**	**Middle**	**Highest**
3+5	PCC	channel	20416	20501	20586
		Frequcncy	825.6	834.1	842.6
	SCC	channel	20455	20540	20625
		Frequcncy	829.5	838.0	846.5
5+3	PCC	channel	20425	20510	20595
		Frequcncy	826.5	835.0	843.5
	SCC	channel	20464	20549	20634
		Frequcncy	830.4	838.9	847.4
5+10	PCC	channel	20428	20478	20528
		Frequcncy	826.8	831.8	836.8
	SCC	channel	20500	20550	20600
		Frequcncy	834	839	844
10+5	PCC	channel	20450	20500	20550
		Frequcncy	829	834	839
	SCC	channel	20522	20572	20622
		Frequcncy	836.2	841.2	846.2
10+10	PCC	channel	20450	20476	20501
		Frequcncy	829	831.6	834.1
	SCC	channel	20549	20575	20600
		Frequcncy	838.9	841.5	844

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.3.2 TEST SETUP



3.3.3 TEST RESULTS

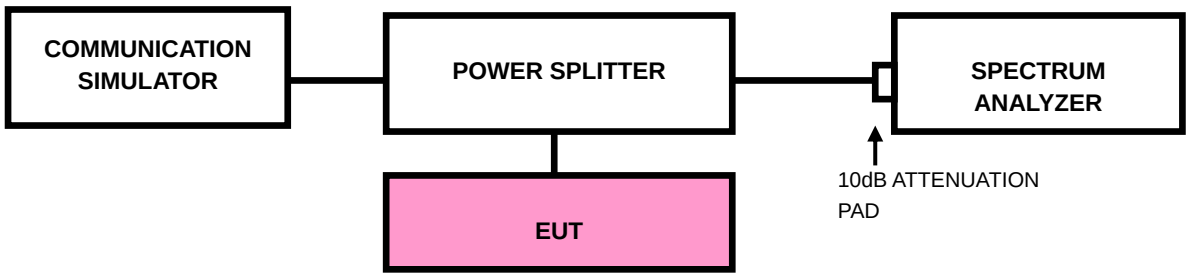
Please Refer to Appendix A Of this test report.

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

a. All measurements were done at low and high operational frequency range.

b. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 10kHz and VBW of the spectrum is 30kHz (GSM/GPRS/ EDGE/LTE bandwidth for (1.4M/3M/5M/10M/15M/20M)1RB/0RB&1RB/MAXRB).

c. The center frequency of spectrum is the band edge frequency and span is 10MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (WCDMA).

d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is ⩾1%*EBW kHz and VBW of the spectrum is 3*RBW kHz. (LTE bandwidth 1.4M/3M/5M/10M/15M/20MHz).

e. Record the max trace plot into the test report.

3.4.4 TEST RESULTS

Please Refer to Appendix A Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

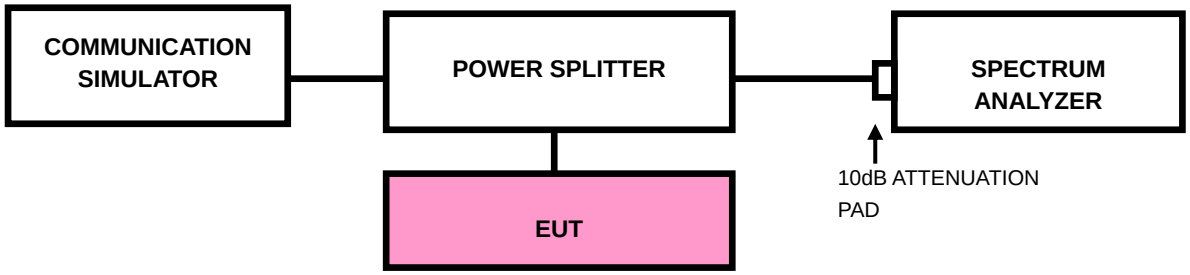
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to –13dBm.

3.5.2 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 10^{th} 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 A Of this test report.

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 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.

3.6.2 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.

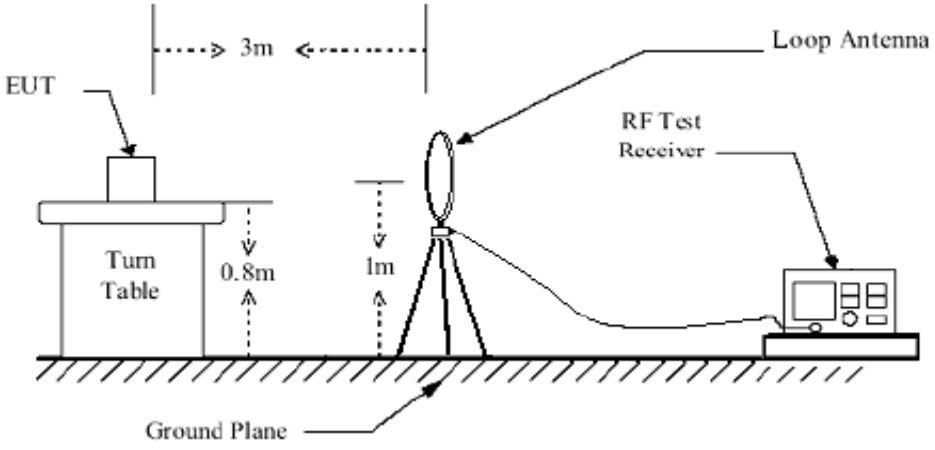
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.6.3 DEVIATION FROM TEST STANDARD

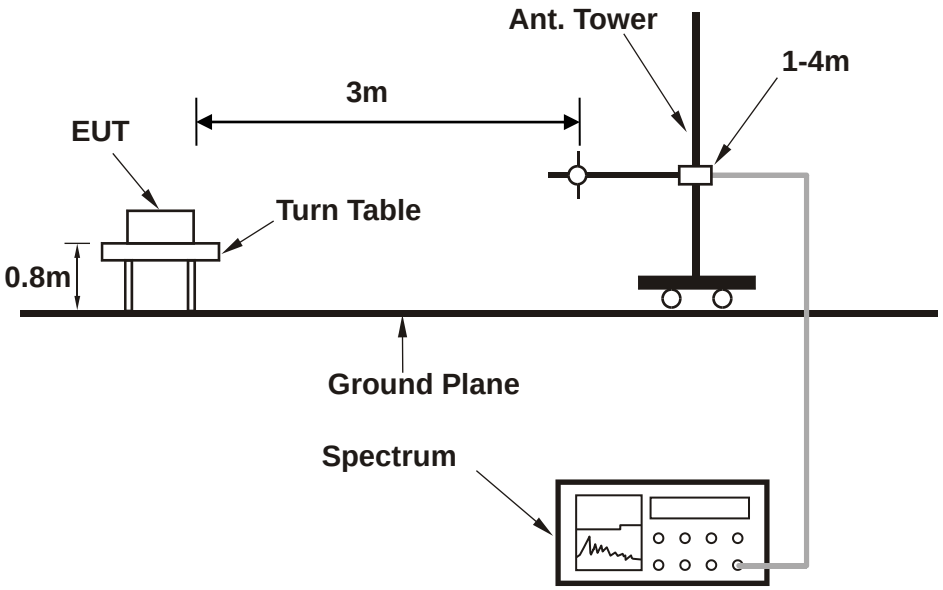
No deviation

3.6.4 TEST SETUP

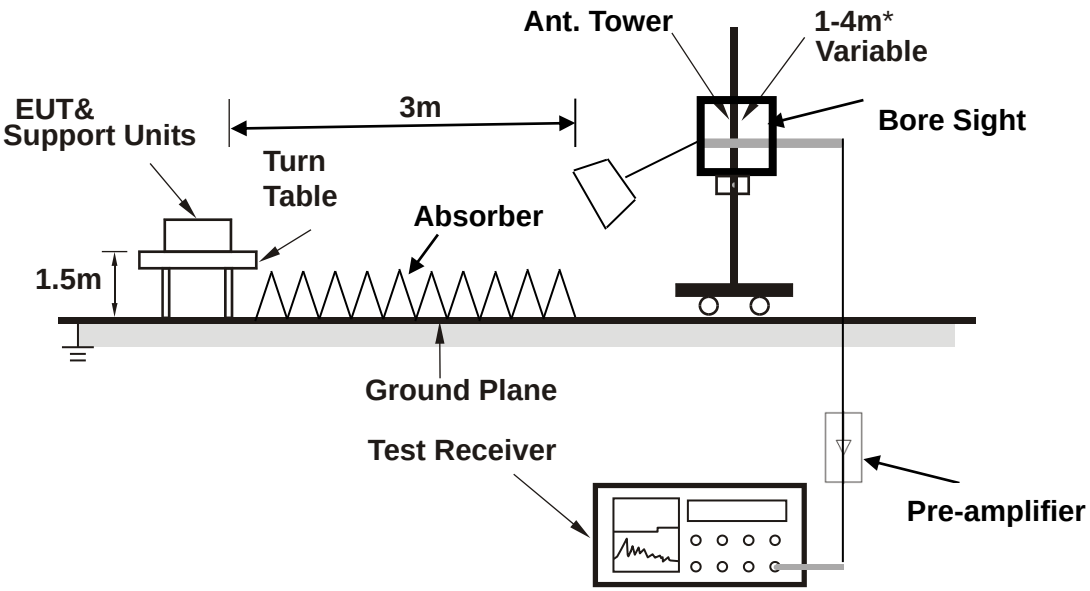
< Frequency Range below 30MHz >



< 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

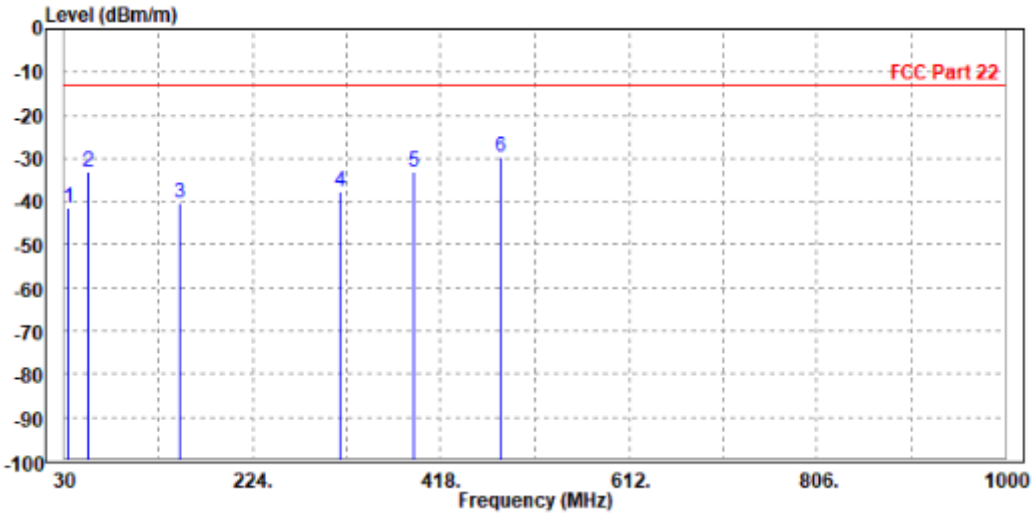
30 MHz – 1GHz data:

GSM

CHANNEL BANDWIDTH: 128 ~ 251

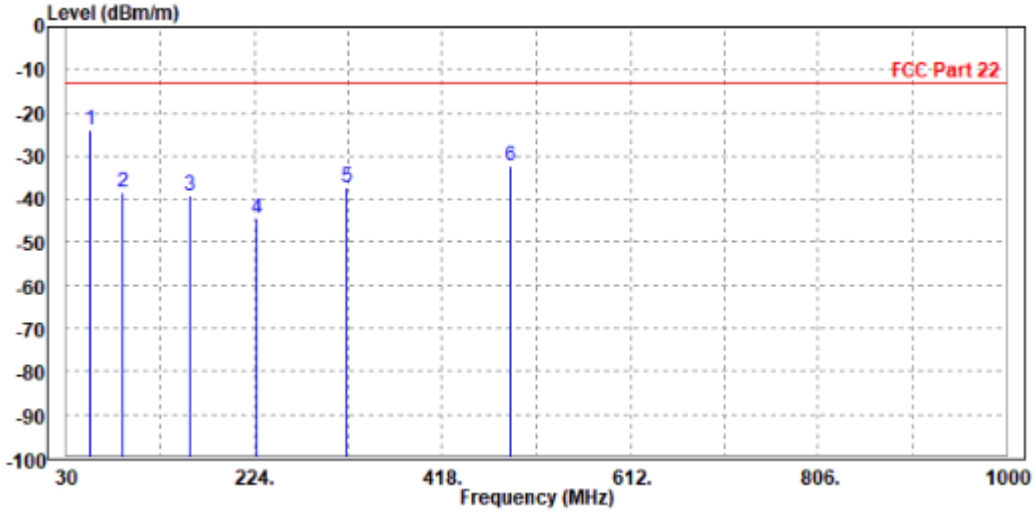
MODE	TX channel 251	**FREQUENCY RANGE**	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	34.850	-41.40	-60.24	-13.00	-28.40	18.84	Peak	Horizontal
2	54.250	-33.22	-41.40	-13.00	-20.22	8.18	Peak	Horizontal
3	148.340	-40.40	-49.77	-13.00	-27.40	9.37	Peak	Horizontal
4	314.210	-37.59	-52.00	-13.00	-24.59	14.41	Peak	Horizontal
5	389.870	-32.95	-49.56	-13.00	-19.95	16.61	Peak	Horizontal
6 PP	480.080	-29.84	-48.18	-13.00	-16.84	18.34	Peak	Horizontal



MODE	TX channel 251	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	54.250	-24.13	-32.66	-13.00	-11.13	8.53	Peak	Vertical
2		88.200	-38.25	-46.71	-13.00	-25.25	8.46	Peak	Vertical
3		157.070	-39.07	-50.13	-13.00	-26.07	11.06	Peak	Vertical
4		226.910	-44.48	-57.22	-13.00	-31.48	12.74	Peak	Vertical
5		319.060	-37.31	-52.73	-13.00	-24.31	15.42	Peak	Vertical
6		487.840	-32.43	-51.30	-13.00	-19.43	18.87	Peak	Vertical



ABOVE 1GHz DATA

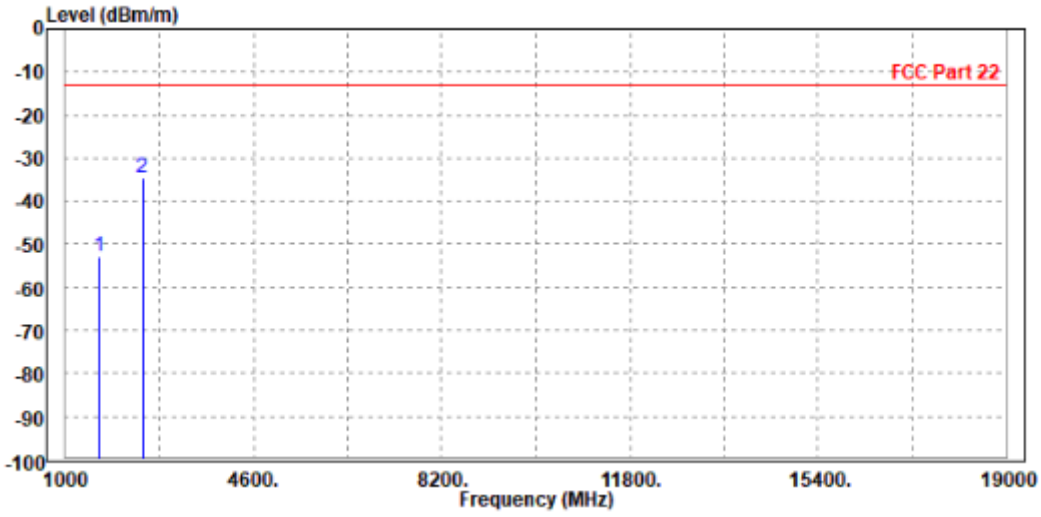
Note: For higher frequency, the emission is too low to be detected.

GSM 850

CH 128:

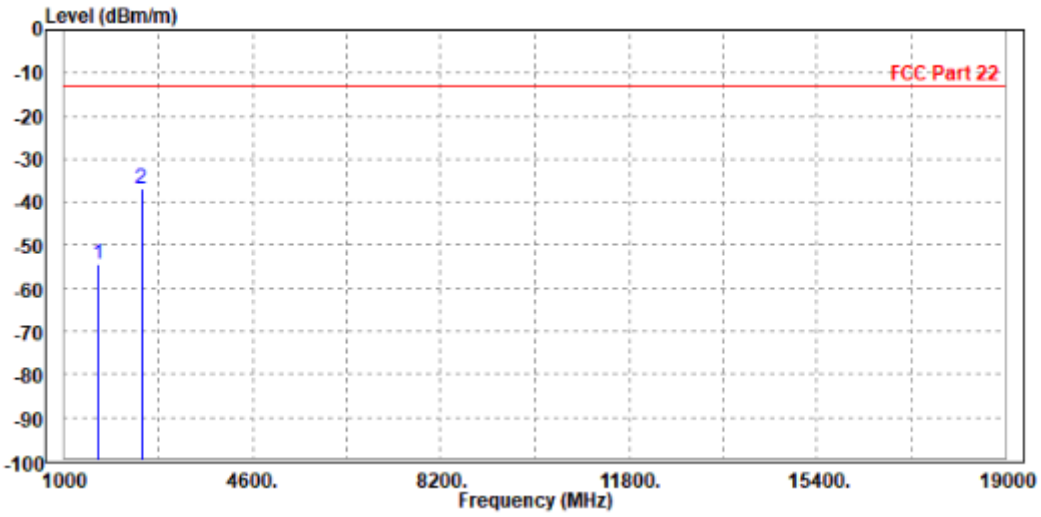
MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1648.000	-52.88	-56.13	-13.00	-39.88	3.25	Peak	Horizontal
2 PP	2472.600	-34.68	-42.70	-13.00	-21.68	8.02	Peak	Horizontal



MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

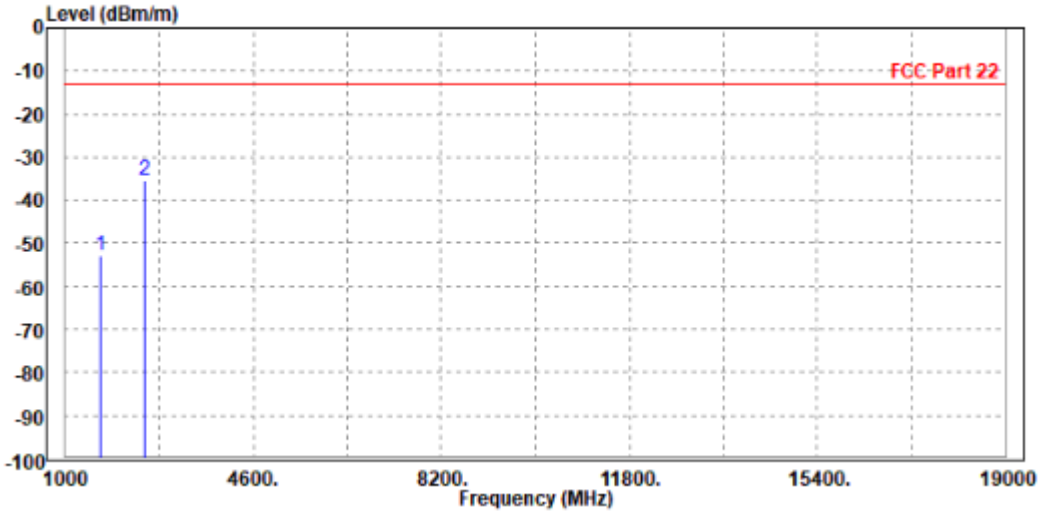
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1648.000	-54.32	-57.70	-13.00	-41.32	3.38	Peak	Vertical
2 PP	2472.600	-37.04	-44.08	-13.00	-24.04	7.04	Peak	Vertical



CH 189:

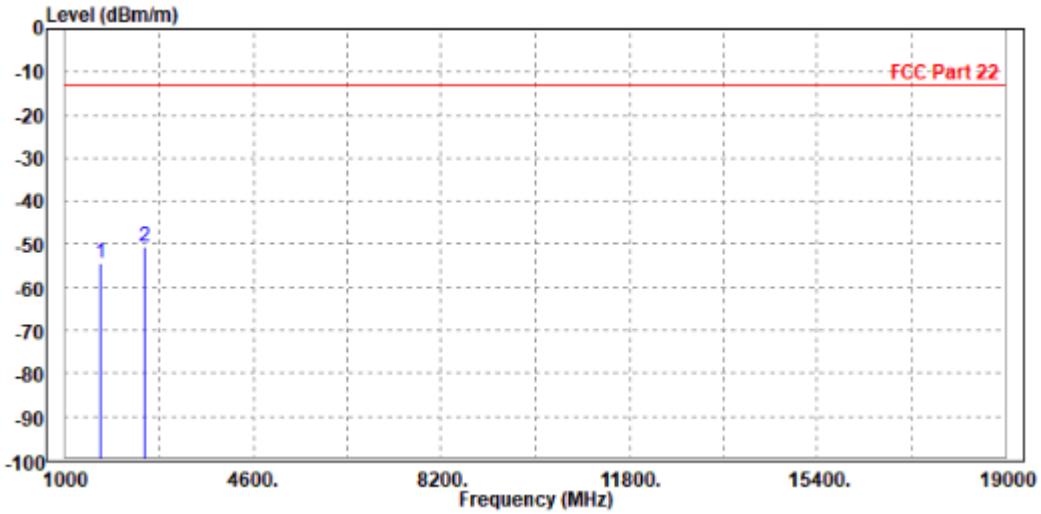
MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.88	-56.35	-13.00	-39.88	3.47	Peak	Horizontal
2 PP	2512.000	-35.28	-43.34	-13.00	-22.28	8.06	Peak	Horizontal



MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

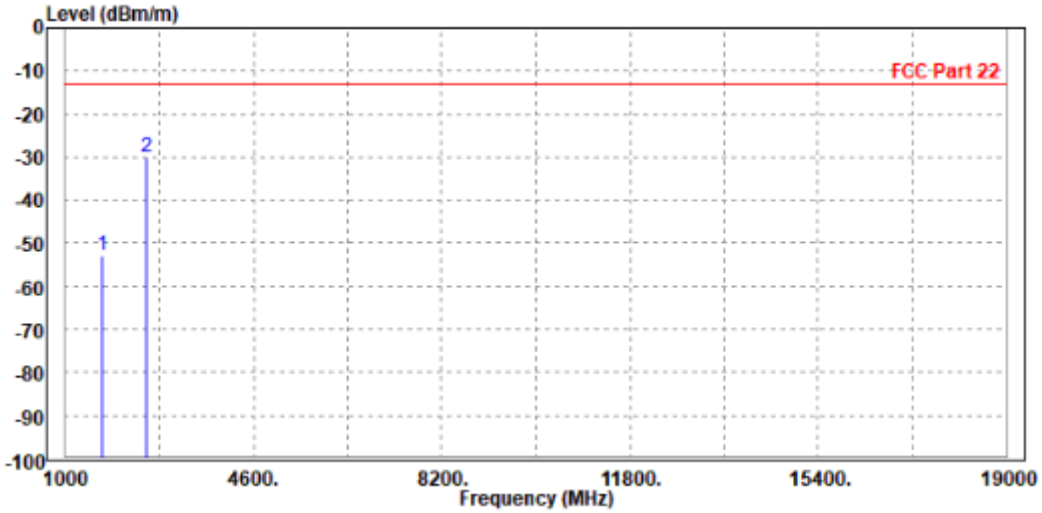
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-54.18	-57.72	-13.00	-41.18	3.54	Peak	Vertical
2 PP	2509.200	-50.42	-57.52	-13.00	-37.42	7.10	Peak	Vertical



CH 251:

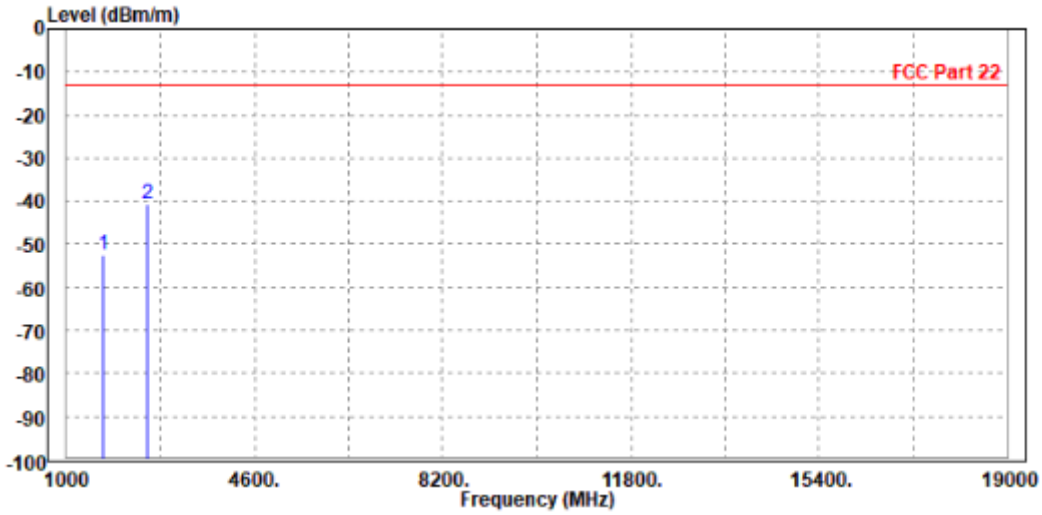
MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1702.000	-52.87	-56.78	-13.00	-39.87	3.91	Peak	Horizontal
2 PP	2546.400	-29.91	-38.02	-13.00	-16.91	8.11	Peak	Horizontal



MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1702.000	-52.53	-56.40	-13.00	-39.53	3.87	Peak	Vertical
2 PP	2546.400	-40.69	-47.91	-13.00	-27.69	7.22	Peak	Vertical

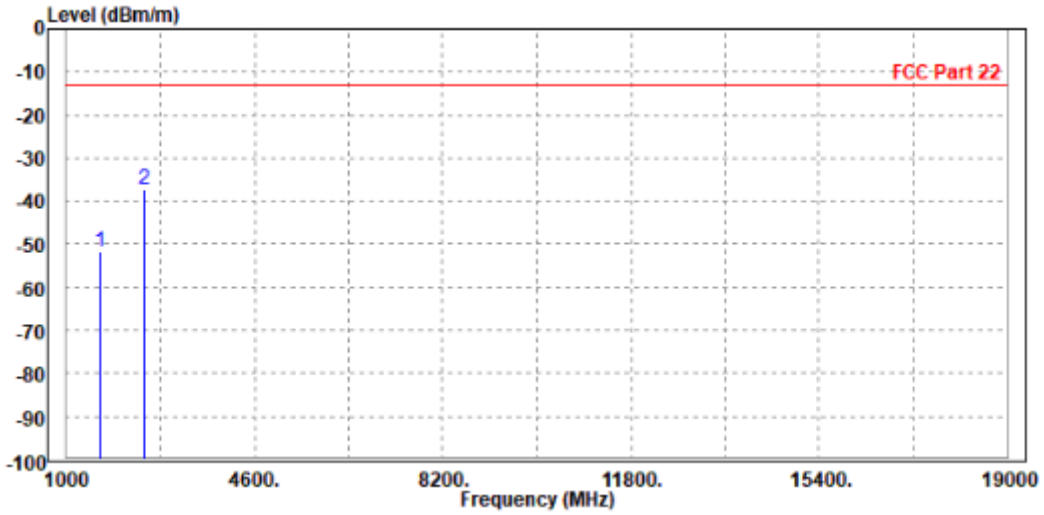


EDGE 850:

CH 128:

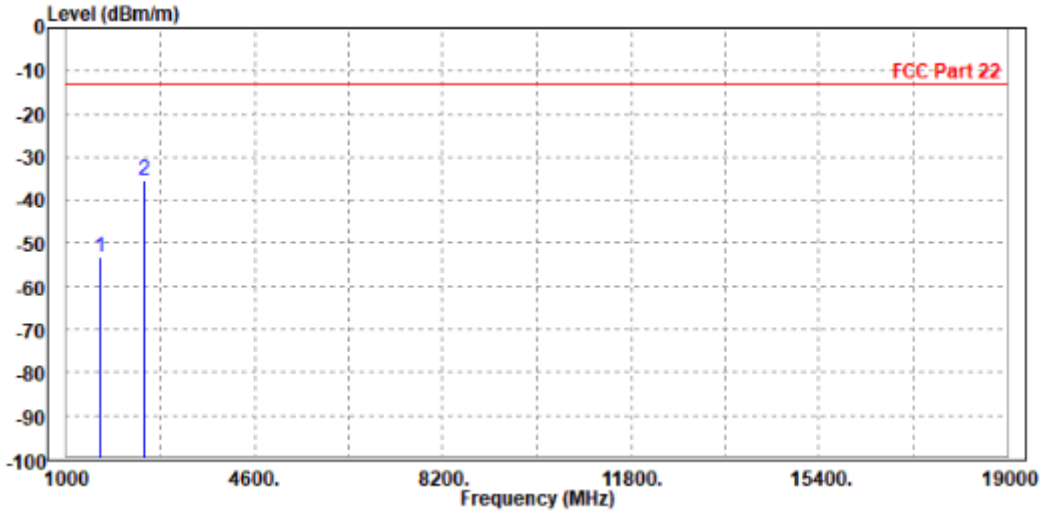
MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1648.000	-51.80	-55.05	-13.00	-38.80	3.25	Peak	Horizontal
2 PP	2476.000	-37.45	-45.48	-13.00	-24.45	8.03	Peak	Horizontal



MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

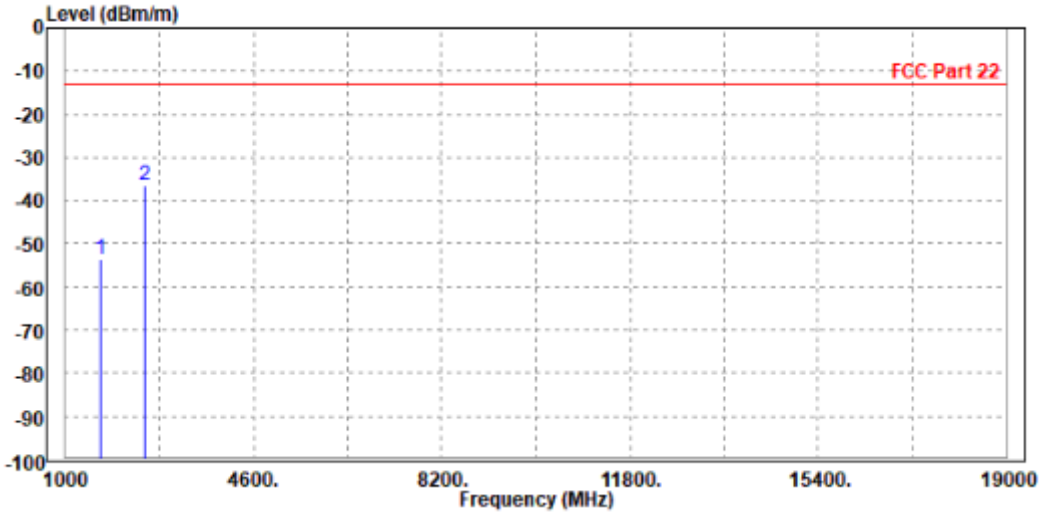
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1648.000	-53.23	-56.61	-13.00	-40.23	3.38	Peak	Vertical
2 PP	2476.000	-35.27	-42.31	-13.00	-22.27	7.04	Peak	Vertical



CH 189:

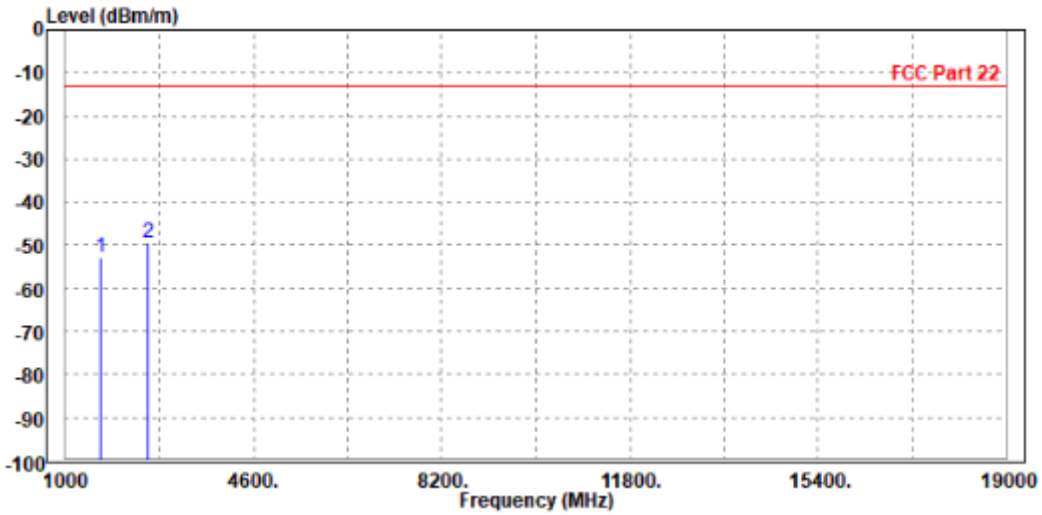
MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-53.54	-57.01	-13.00	-40.54	3.47	Peak	Horizontal
2 PP	2512.000	-36.53	-44.59	-13.00	-23.53	8.06	Peak	Horizontal



MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

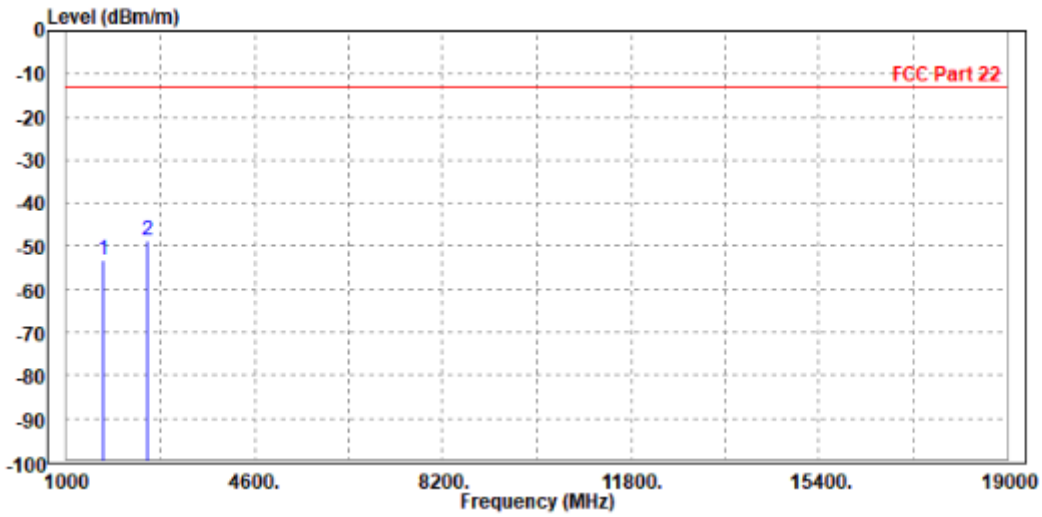
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.79	-56.33	-13.00	-39.79	3.54	Peak	Vertical
2 PP	2590.200	-49.50	-56.86	-13.00	-36.50	7.36	Peak	Vertical



CH 251:

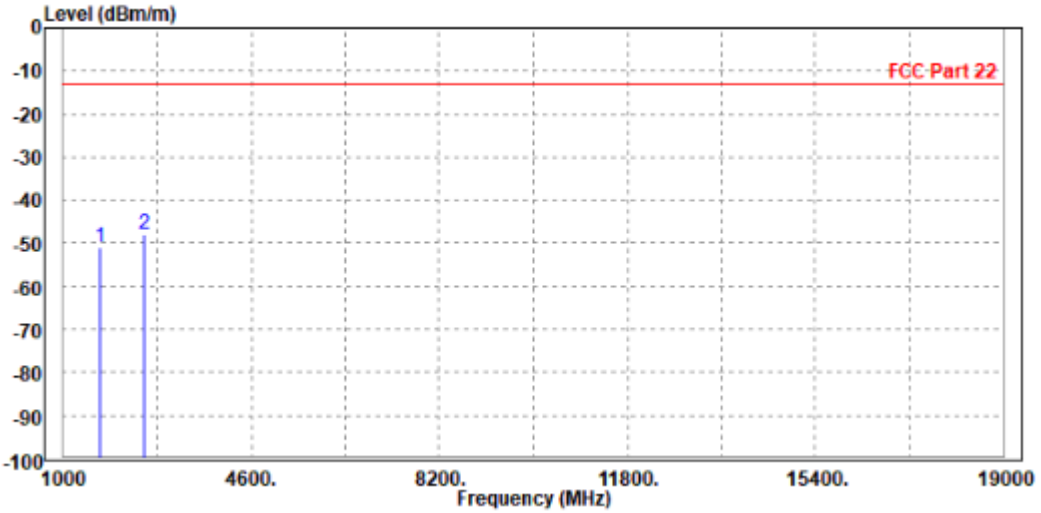
MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		1702.000	-53.21	-57.12	-13.00	-40.21	3.91	Peak	Horizontal
2	PP	2546.400	-48.69	-56.80	-13.00	-35.69	8.11	Peak	Horizontal



MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1702.000	-51.14	-55.01	-13.00	-38.14	3.87	Peak	Vertical
2 PP	2546.400	-48.05	-55.27	-13.00	-35.05	7.22	Peak	Vertical

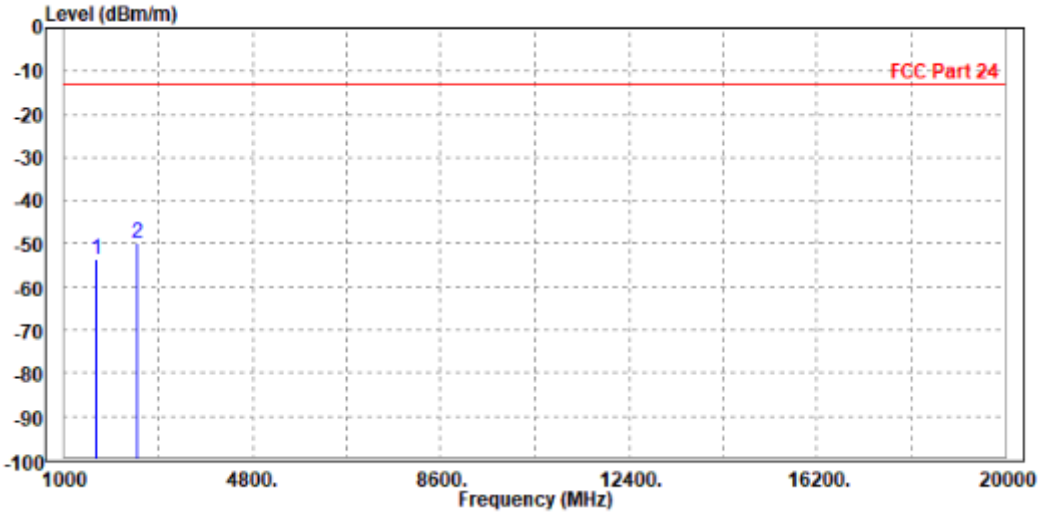


WCDMA Band V:

CH 4132:

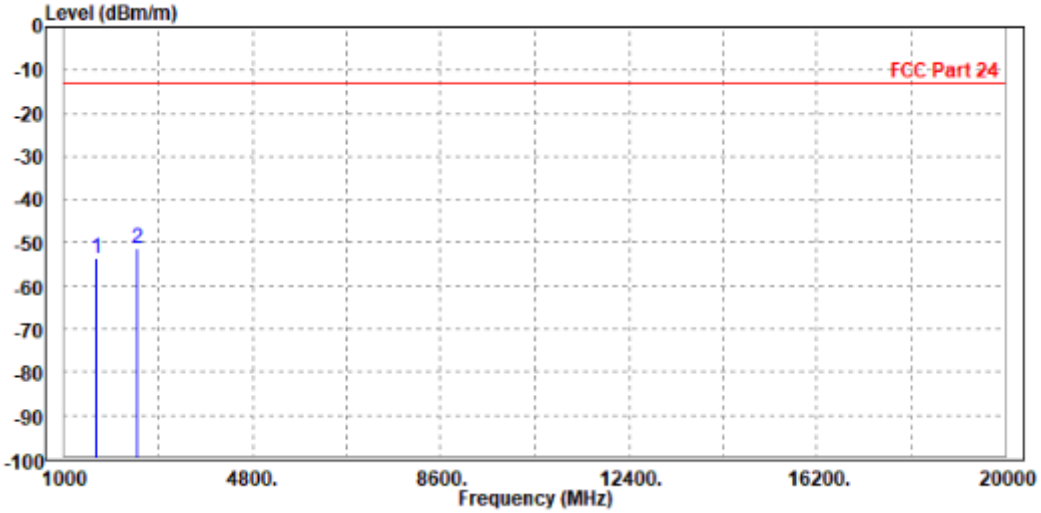
MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1646.000	-53.58	-56.81	-13.00	-40.58	3.23	Peak	Horizontal
2 PP	2479.200	-49.87	-57.90	-13.00	-36.87	8.03	Peak	Horizontal



MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

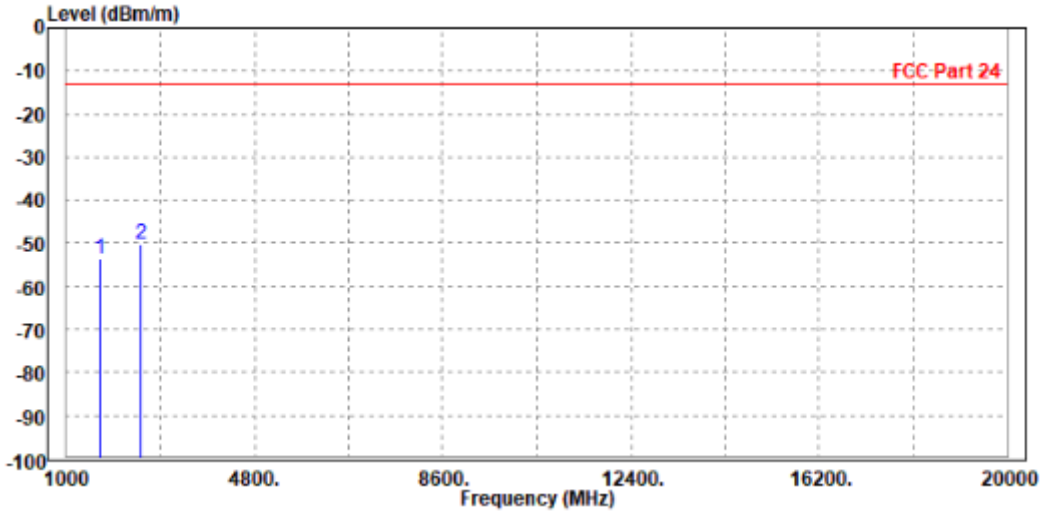
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1646.000	-53.67	-57.03	-13.00	-40.67	3.36	Peak	Vertical
2 PP	2479.200	-51.23	-58.28	-13.00	-38.23	7.05	Peak	Vertical



CH 4182:

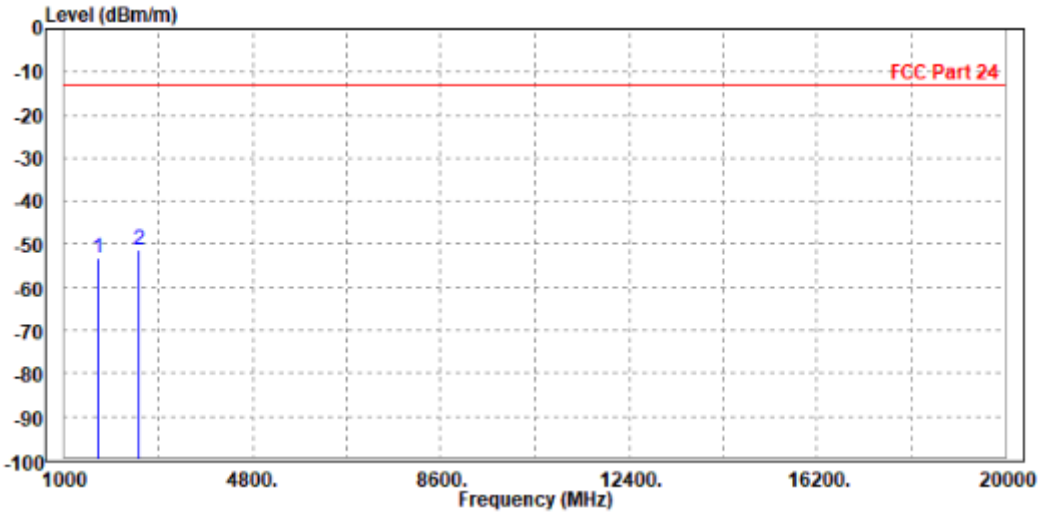
MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1665.000	-53.77	-57.23	-13.00	-40.77	3.46	Peak	Horizontal
2 PP	2509.200	-50.04	-58.10	-13.00	-37.04	8.06	Peak	Horizontal



MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

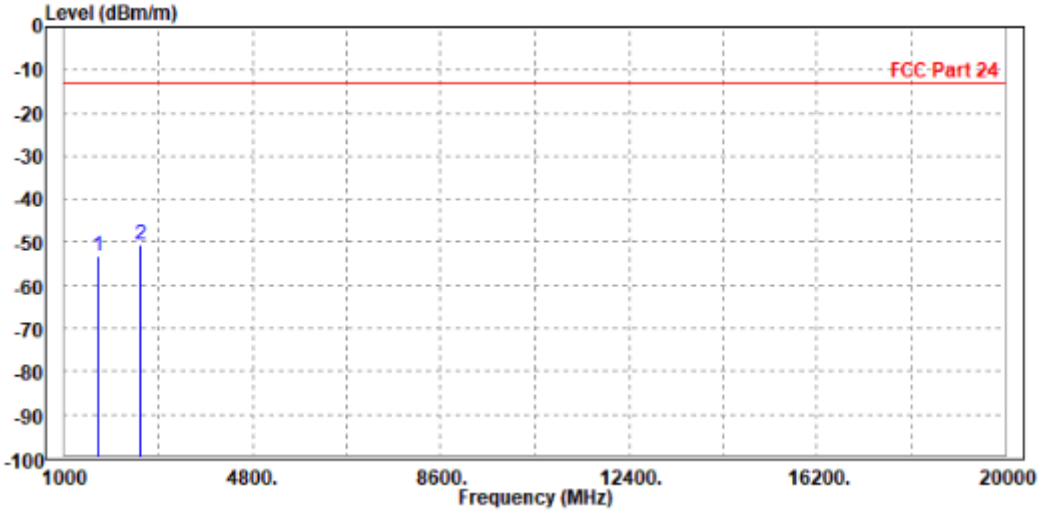
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1665.000	-53.22	-56.76	-13.00	-40.22	3.54	Peak	Vertical
2 PP	2509.200	-51.51	-58.61	-13.00	-38.51	7.10	Peak	Vertical



CH 4233:

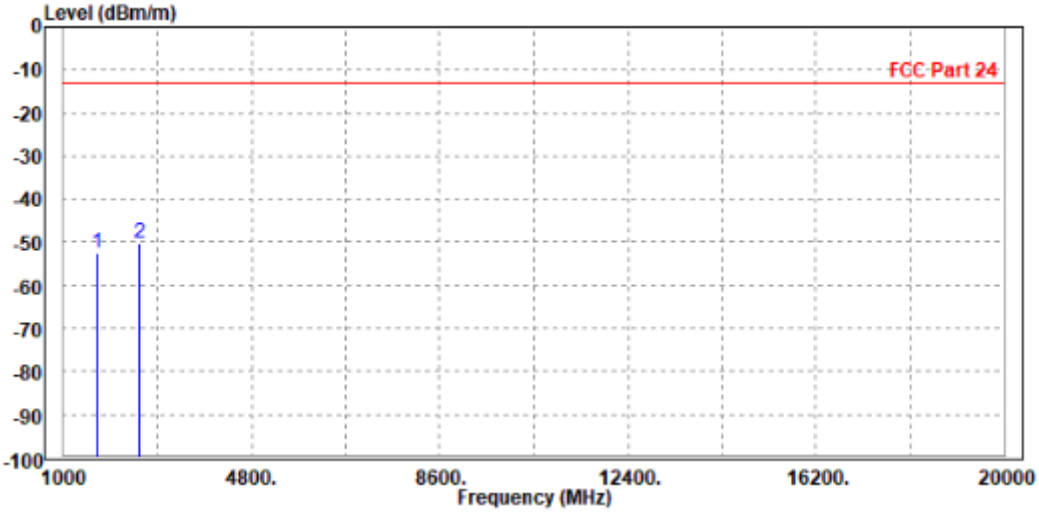
MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1684.000	-53.33	-57.02	-13.00	-40.33	3.69	Peak	Horizontal
2 PP	2539.800	-50.53	-58.63	-13.00	-37.53	8.10	Peak	Horizontal



MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1684.000	-52.35	-56.06	-13.00	-39.35	3.71	Peak	Vertical
2 PP	2539.800	-50.27	-57.47	-13.00	-37.27	7.20	Peak	Vertical

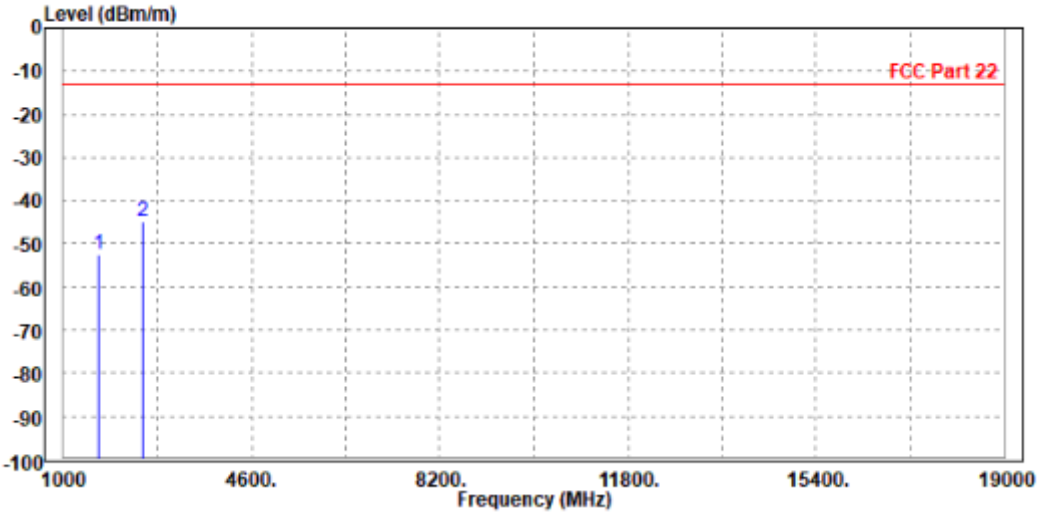


LTE Band 5

CHANNEL BANDWIDTH: 1.4MHz / QPSK

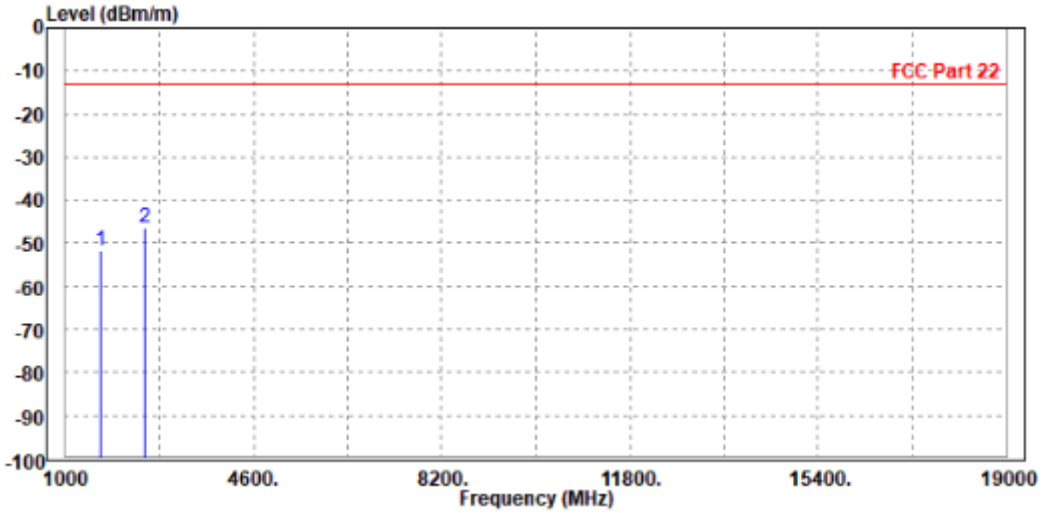
MODE	TX channel 20525	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.59	-56.06	-13.00	-39.59	3.47	Peak	Horizontal
2 PP	2509.500	-44.92	-52.98	-13.00	-31.92	8.06	Peak	Horizontal



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

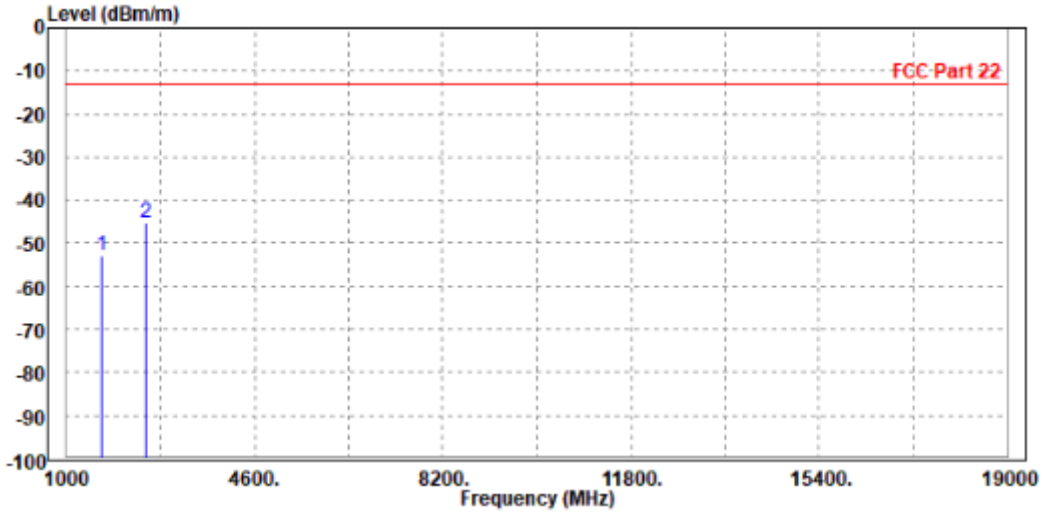
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-51.72	-55.26	-13.00	-38.72	3.54	Peak	Vertical
2 PP	2509.500	-46.21	-53.31	-13.00	-33.21	7.10	Peak	Vertical



CHANNEL BANDWIDTH: 3MHz / QPSK

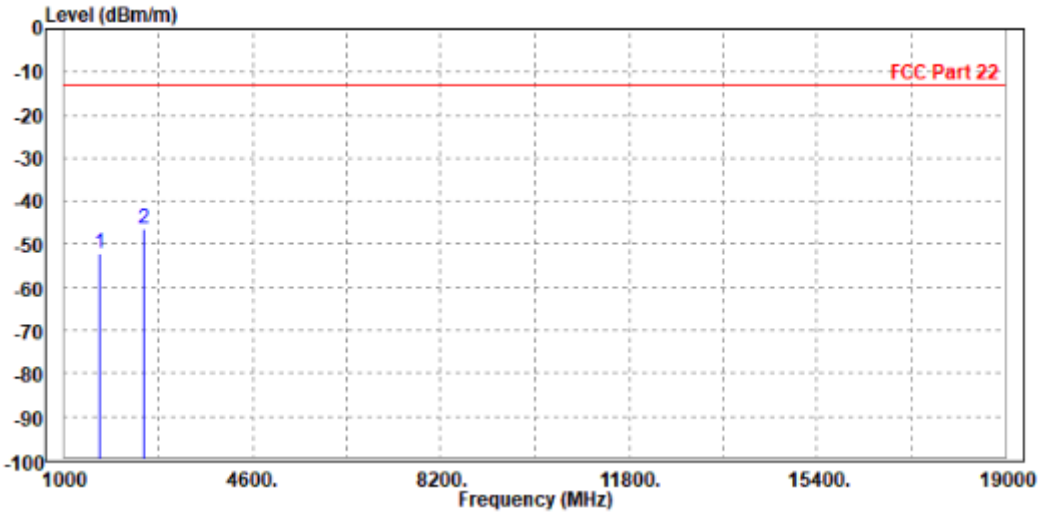
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.71	-56.18	-13.00	-39.71	3.47	Peak	Horizontal
2 PP	2509.500	-45.14	-53.20	-13.00	-32.14	8.06	Peak	Horizontal



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

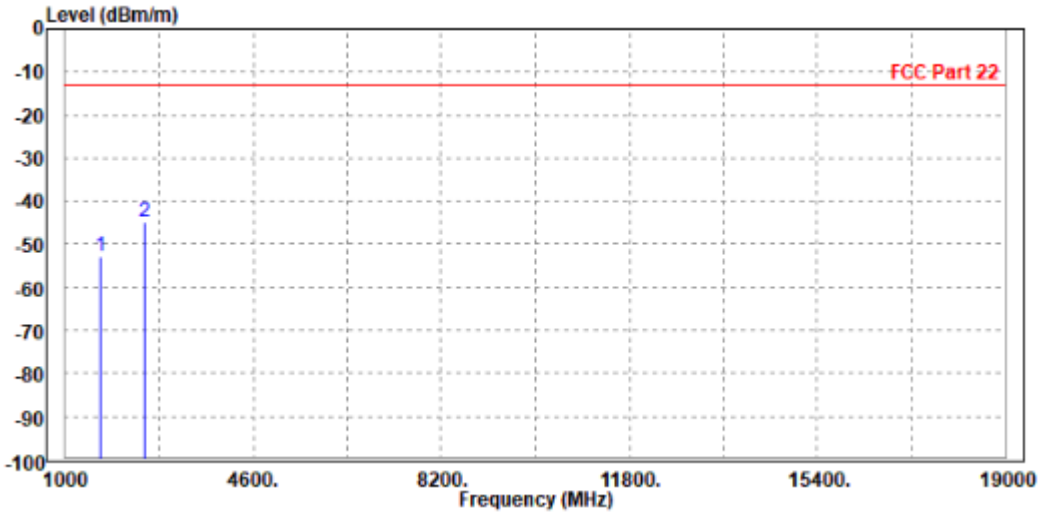
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.25	-55.79	-13.00	-39.25	3.54	Peak	Vertical
2 PP	2509.500	-46.41	-53.51	-13.00	-33.41	7.10	Peak	Vertical



CHANNEL BANDWIDTH: 5MHz / QPSK

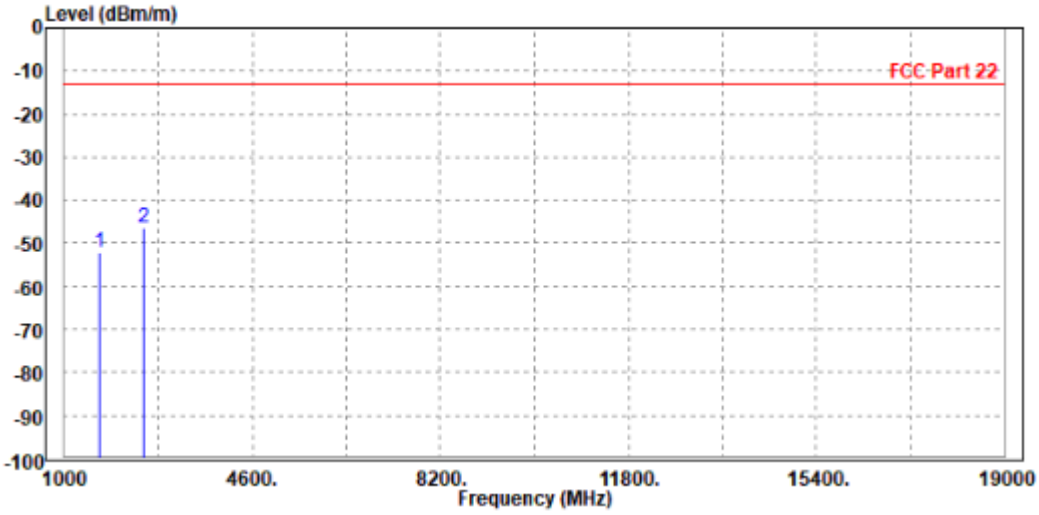
MODE	TX channel 20525	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.83	-56.30	-13.00	-39.83	3.47	Peak	Horizontal
2 PP	2509.500	-44.99	-53.05	-13.00	-31.99	8.06	Peak	Horizontal



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.06	-55.60	-13.00	-39.06	3.54	Peak	Vertical
2 PP	2509.500	-46.57	-53.67	-13.00	-33.57	7.10	Peak	Vertical

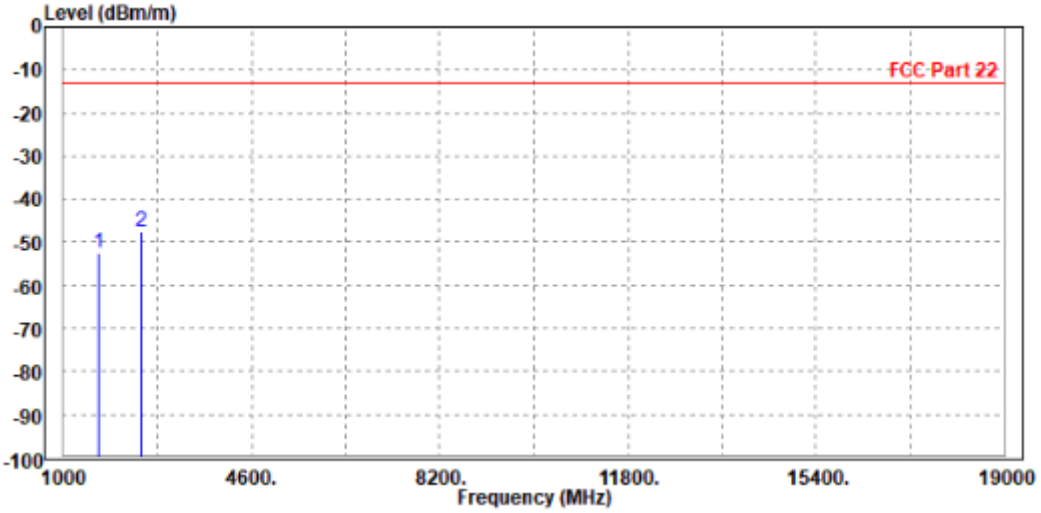


CHANNEL BANDWIDTH: 10MHz / QPSK

CH20450:

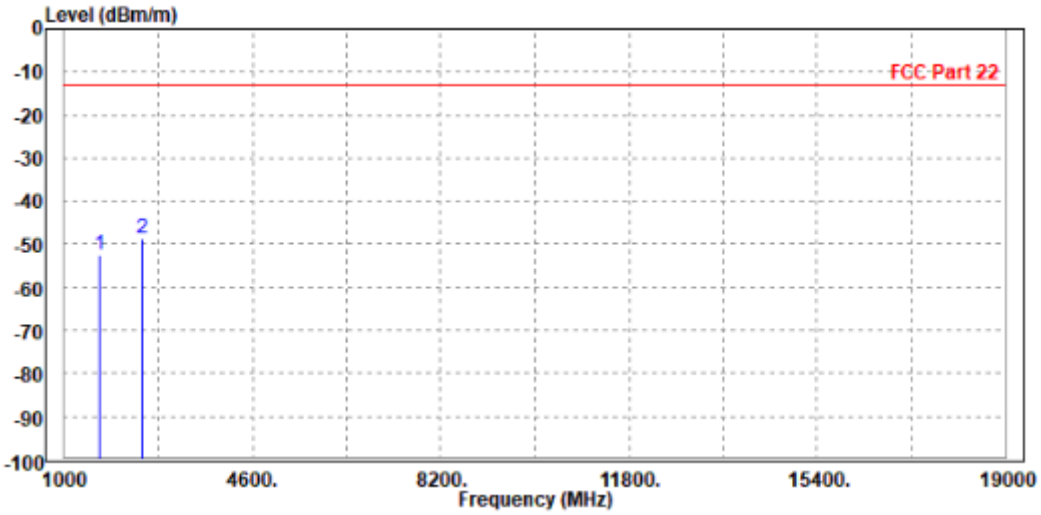
MODE	TX channel 20450	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.34	-55.81	-13.00	-39.34	3.47	Peak	Horizontal
2 PP	2487.000	-47.36	-55.40	-13.00	-34.36	8.04	Peak	Horizontal



MODE	TX channel 20450	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

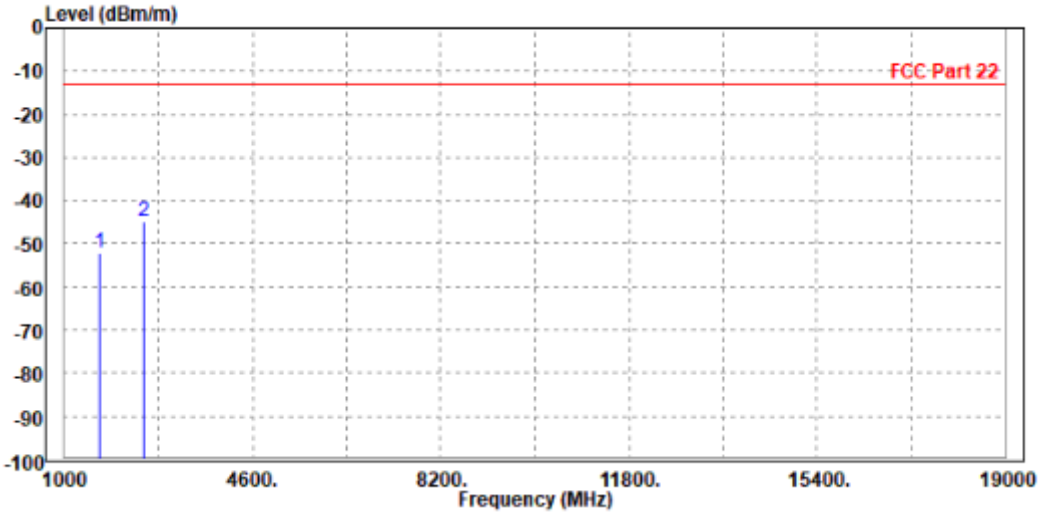
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.34	-55.88	-13.00	-39.34	3.54	Peak	Vertical
2 PP	2487.000	-48.83	-55.88	-13.00	-35.83	7.05	Peak	Vertical



CH20525:

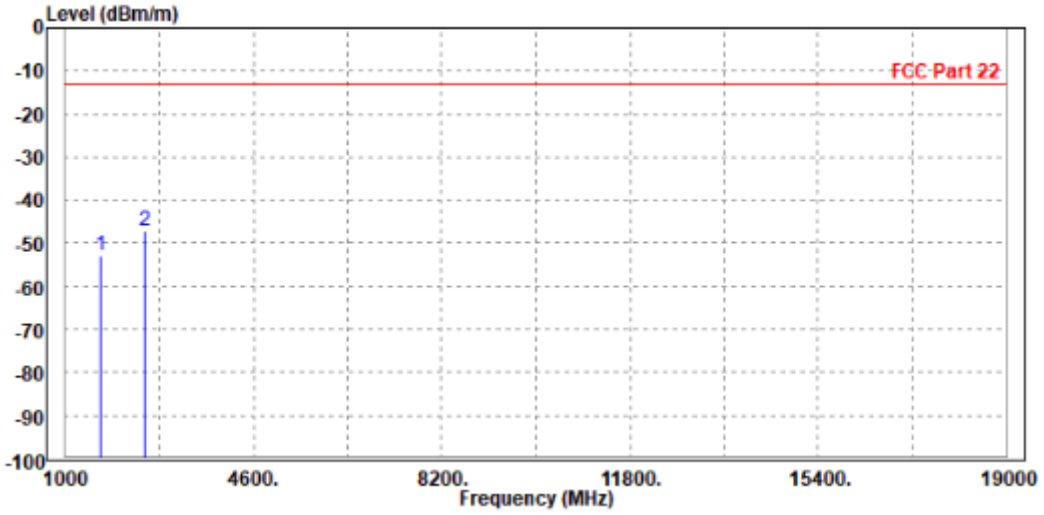
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		1666.000	-52.07	-55.54	-13.00	-39.07	3.47	Peak	Horizontal
2	PP	2509.500	-44.83	-52.89	-13.00	-31.83	8.06	Peak	Horizontal



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

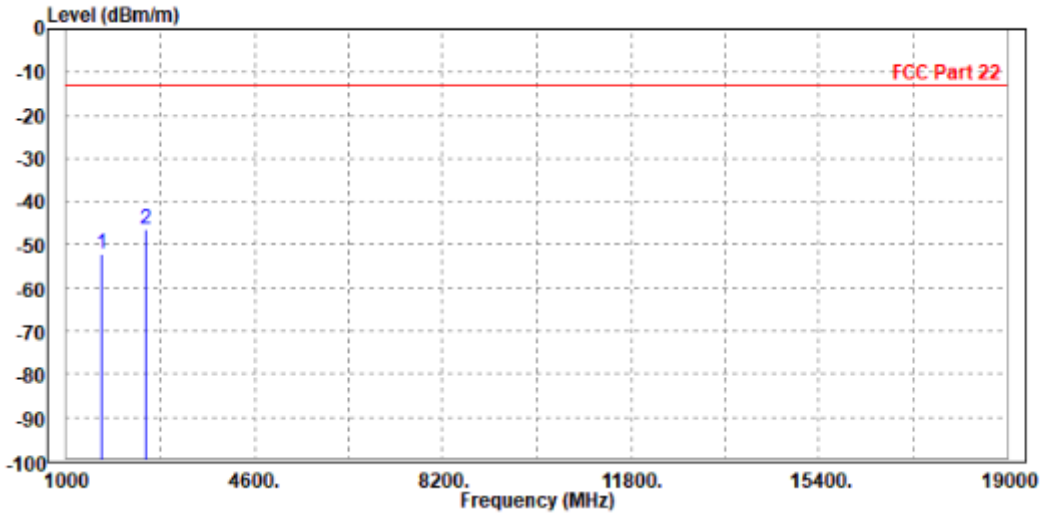
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.79	-56.33	-13.00	-39.79	3.54	Peak	Vertical
2 PP	2509.500	-47.05	-54.15	-13.00	-34.05	7.10	Peak	Vertical



CH20600:

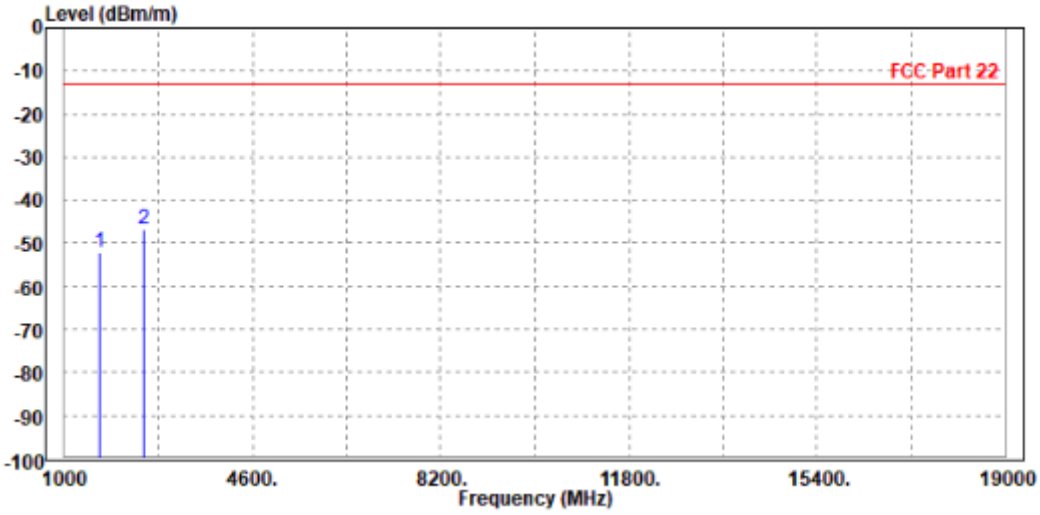
MODE	TX channel 20600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1684.000	-52.07	-55.76	-13.00	-39.07	3.69	Peak	Horizontal
2 PP	2532.000	-46.46	-54.55	-13.00	-33.46	8.09	Peak	Horizontal



MODE	TX channel 20600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1684.000	-52.06	-55.77	-13.00	-39.06	3.71	Peak	Vertical
2 PP	2532.000	-46.89	-54.06	-13.00	-33.89	7.17	Peak	Vertical



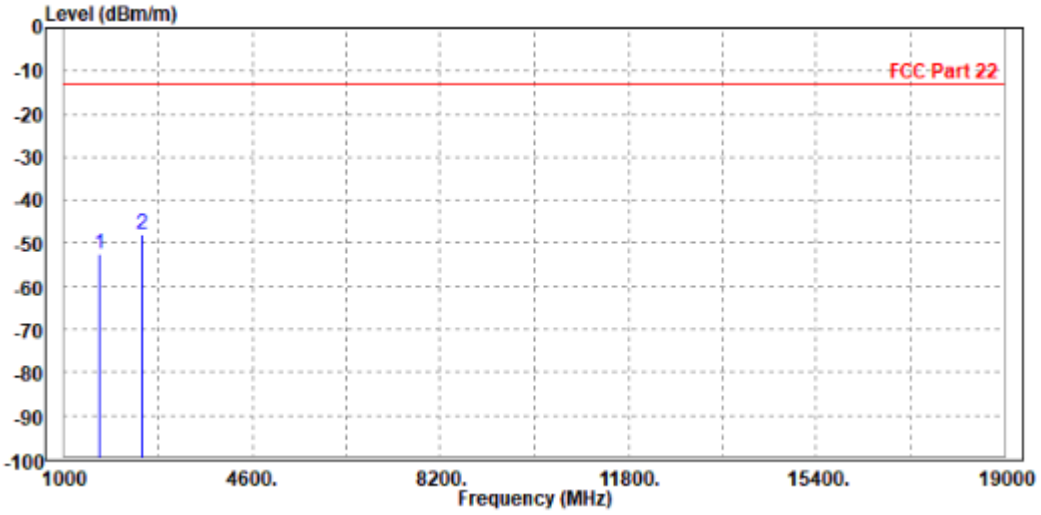
CA 5B

CHANNEL BANDWIDTH: (3M+5M) Hz / QPSK

CH20501/20540

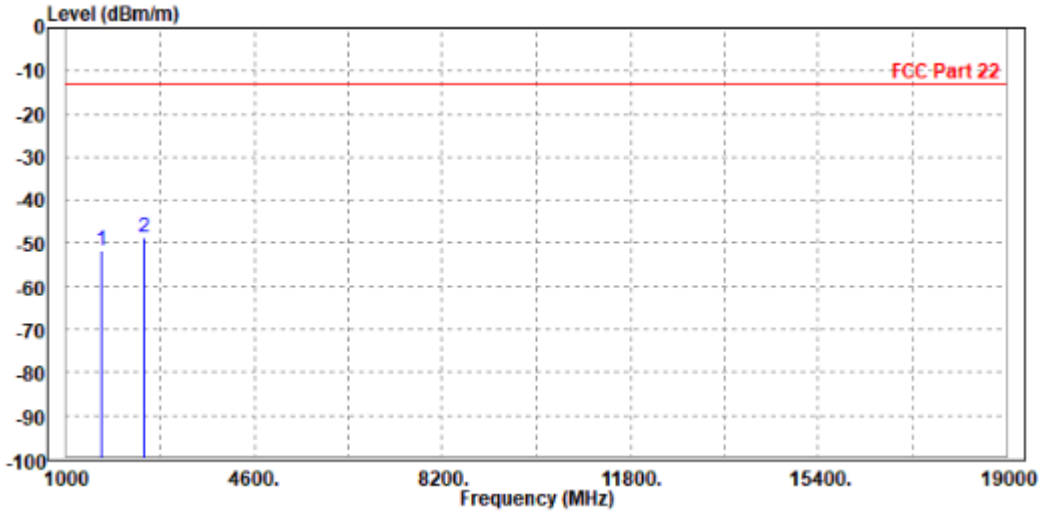
MODE	TX channel 20501/20540	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1668.200	-52.48	-55.98	-13.00	-39.48	3.50	Peak	Horizontal
2 PP	2494.000	-47.85	-55.89	-13.00	-34.85	8.04	Peak	Horizontal



MODE	TX channel 20501/20540	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-51.74	-55.28	-13.00	-38.74	3.54	Peak	Vertical
2 PP	2502.300	-48.64	-55.71	-13.00	-35.64	7.07	Peak	Vertical

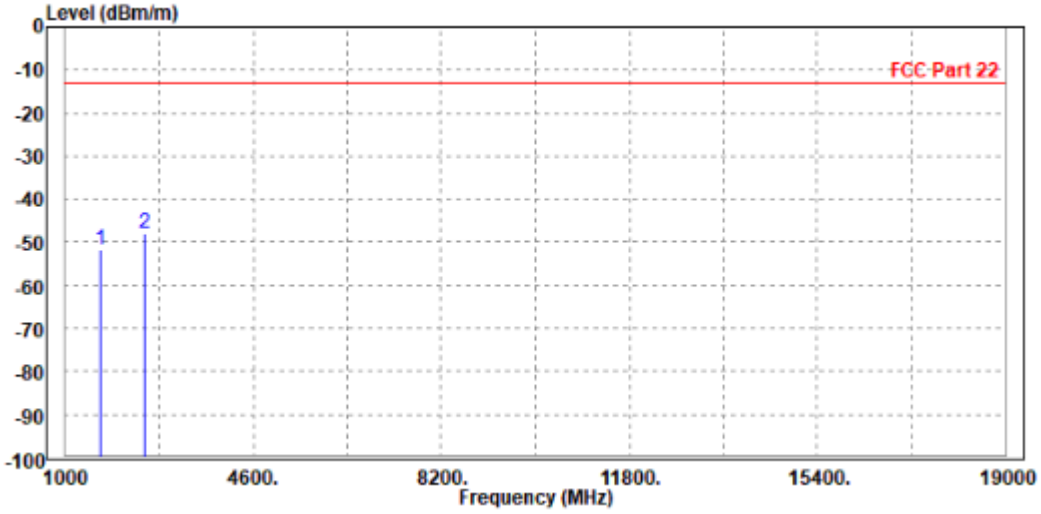


CHANNEL BANDWIDTH: (5M+3M) Hz / QPSK

CH20510/20549

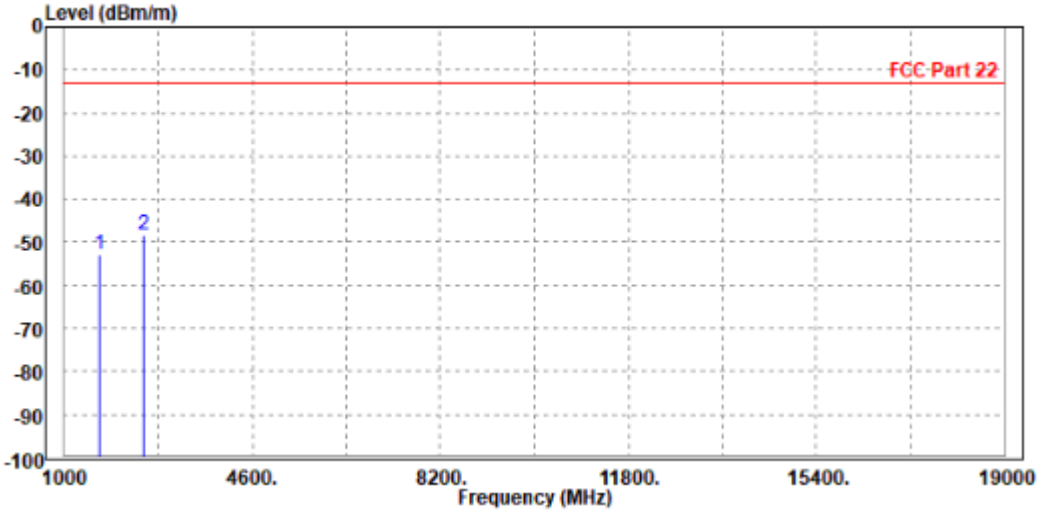
MODE	TX channel 20510/20549	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-51.78	-55.25	-13.00	-38.78	3.47	Peak	Horizontal
2 PP	2505.000	-47.76	-55.82	-13.00	-34.76	8.06	Peak	Horizontal



MODE	TX channel 20510/20549	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1670.000	-52.72	-56.30	-13.00	-39.72	3.58	Peak	Vertical
2 PP	2512.000	-48.37	-55.48	-13.00	-35.37	7.11	Peak	Vertical

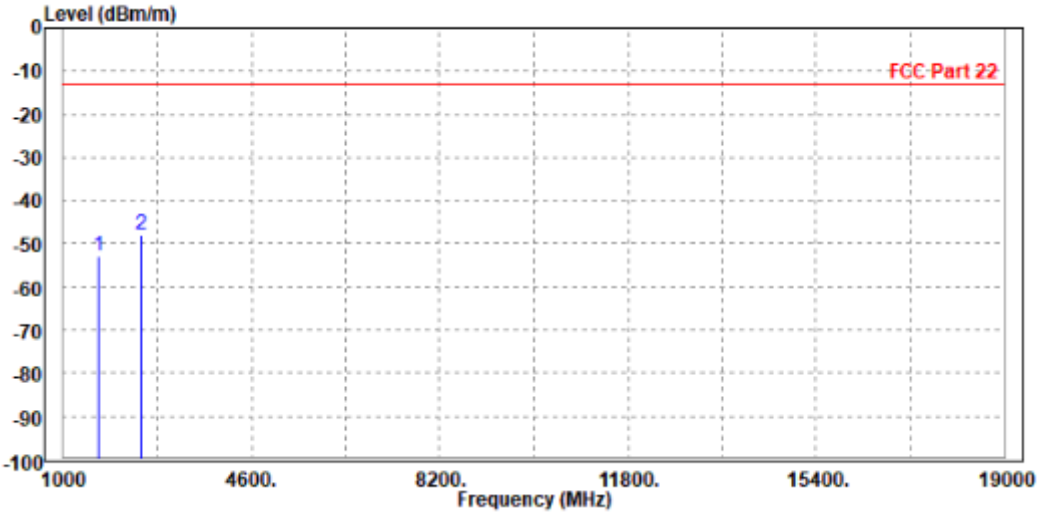


CHANNEL BANDWIDTH: (5M+10M) Hz / QPSK

CH20478/20550

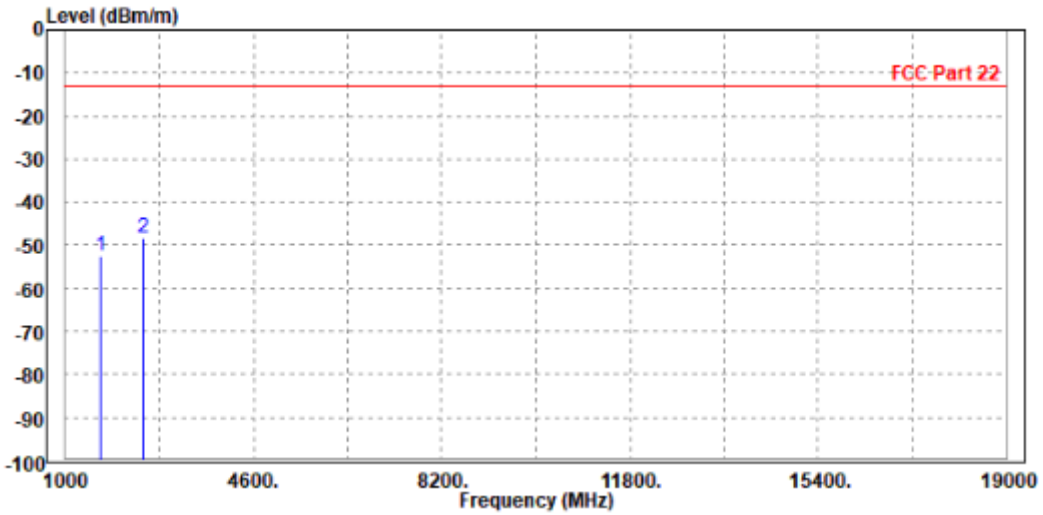
MODE	TX channel 20478/20550	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1663.600	-52.89	-56.33	-13.00	-39.89	3.44	Peak	Horizontal
2 PP	2494.000	-47.91	-55.95	-13.00	-34.91	8.04	Peak	Horizontal



MODE	TX channel 20478/20550	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.50	-56.04	-13.00	-39.50	3.54	Peak	Vertical
2 PP	2495.400	-48.13	-55.19	-13.00	-35.13	7.06	Peak	Vertical

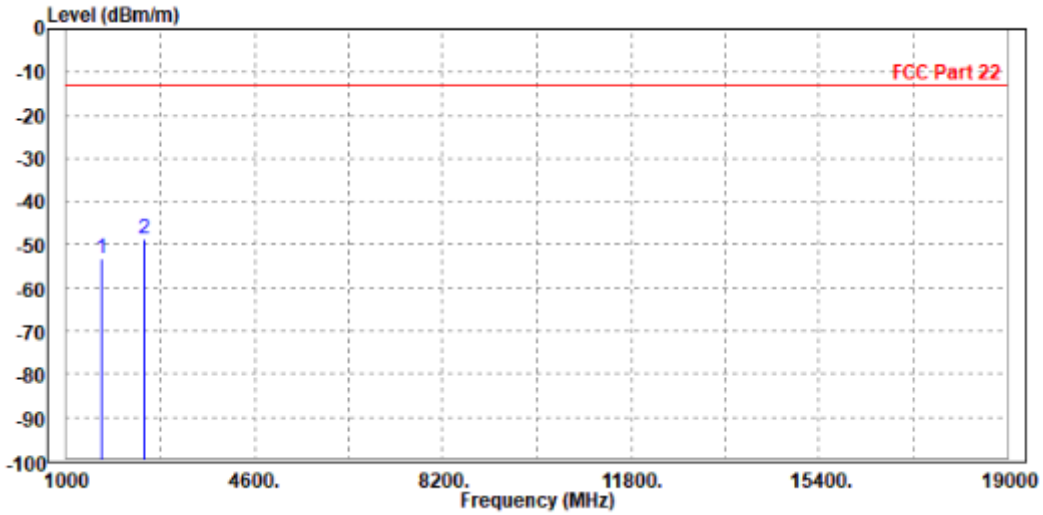


CHANNEL BANDWIDTH: (10M+5M) Hz / QPSK

CH20500/20572

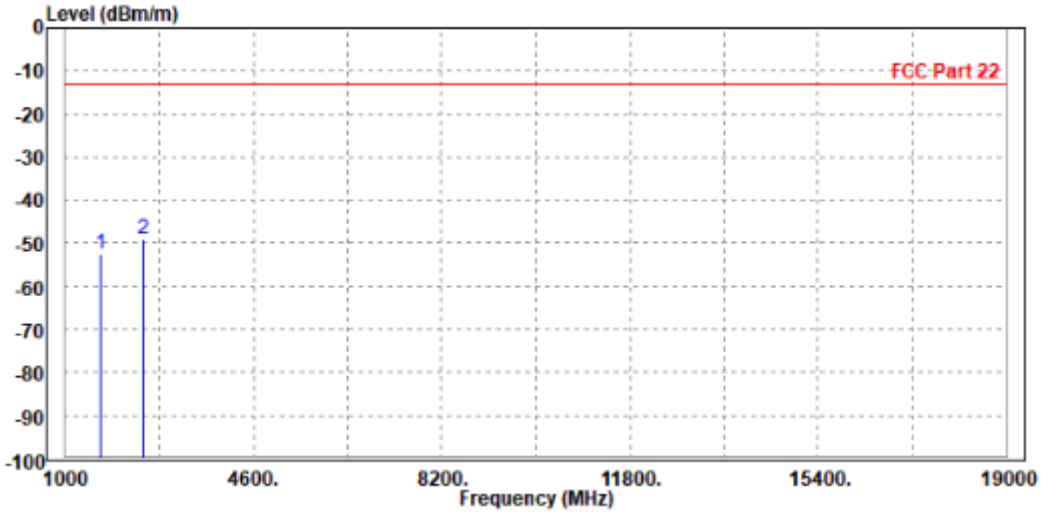
MODE	TX channel 20500/20572	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-53.33	-56.80	-13.00	-40.33	3.47	Peak	Horizontal
2 PP	2502.000	-48.62	-56.67	-13.00	-35.62	8.05	Peak	Horizontal



MODE	TX channel 20500/20572	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.33	-55.87	-13.00	-39.33	3.54	Peak	Vertical
2 PP	2502.000	-48.90	-55.97	-13.00	-35.90	7.07	Peak	Vertical

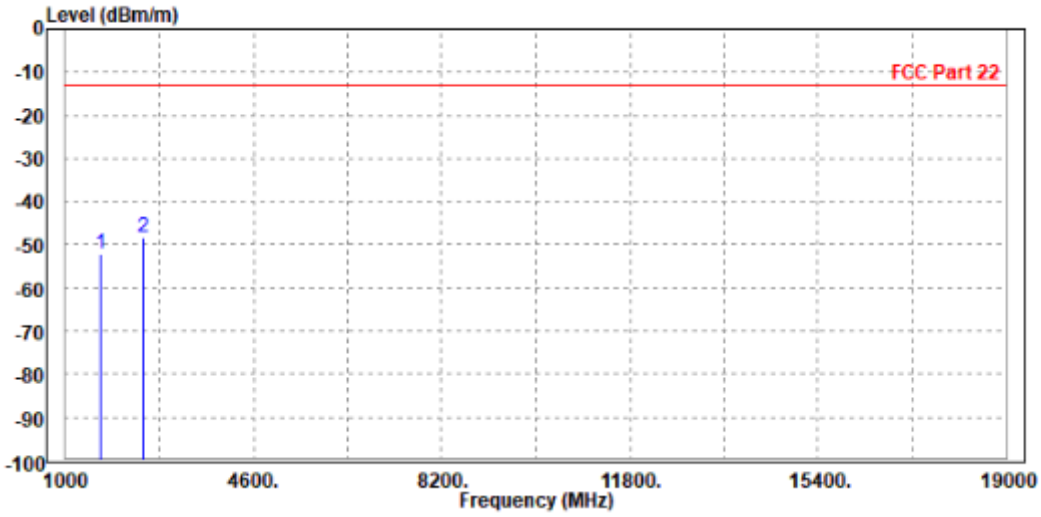


CHANNEL BANDWIDTH: (10M+10M) Hz / QPSK

CH20450/20549:

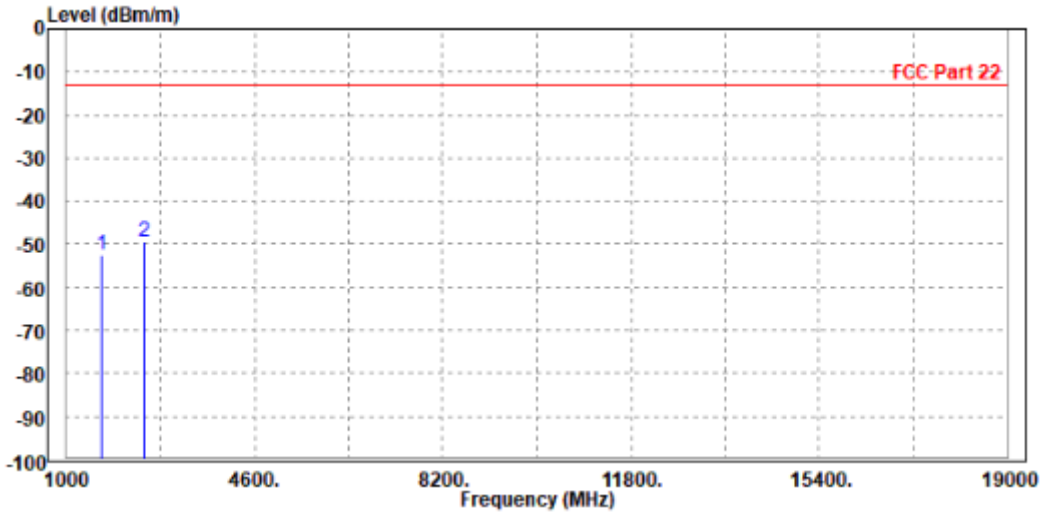
MODE	TX channel 20450/20549	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.19	-55.66	-13.00	-39.19	3.47	Peak	Horizontal
2 PP	2487.000	-48.48	-56.52	-13.00	-35.48	8.04	Peak	Horizontal



MODE	TX channel 20450/20549	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

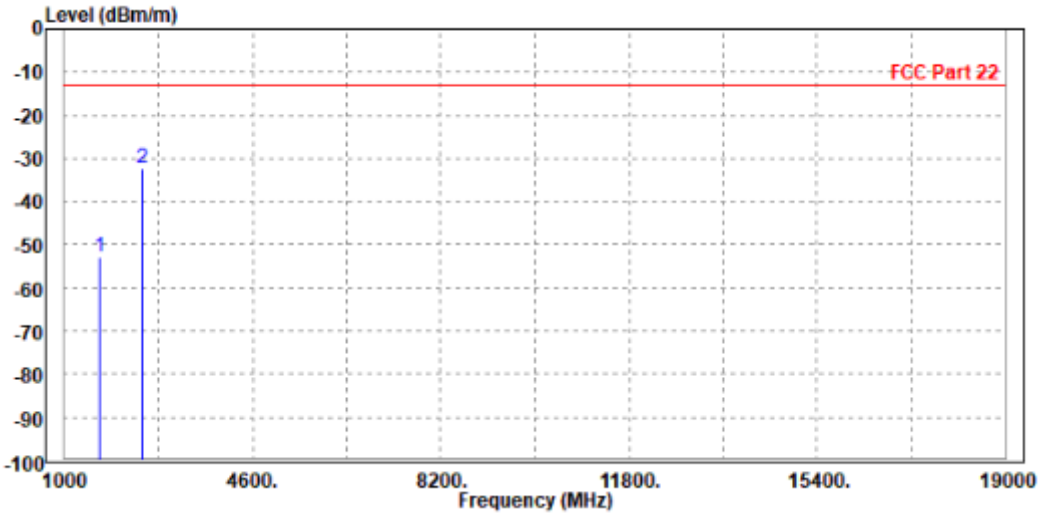
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.50	-56.04	-13.00	-39.50	3.54	Peak	Vertical
2 PP	2487.000	-49.52	-56.57	-13.00	-36.52	7.05	Peak	Vertical



CH20476/20575:

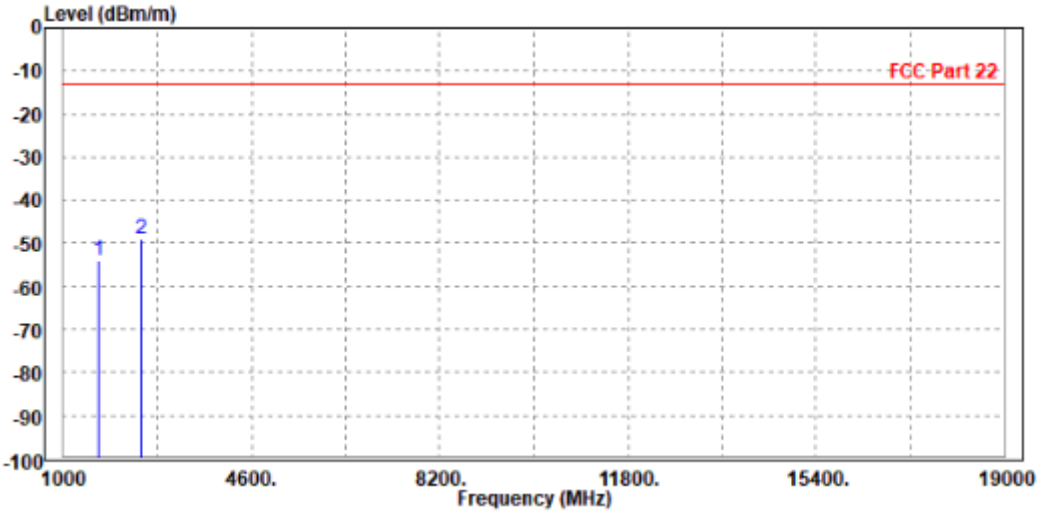
MODE	TX channel 20476/20575	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1663.200	-52.69	-56.13	-13.00	-39.69	3.44	Peak	Horizontal
2 PP	2482.000	-32.25	-40.28	-13.00	-19.25	8.03	Peak	Horizontal



MODE	TX channel 20476/20575	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

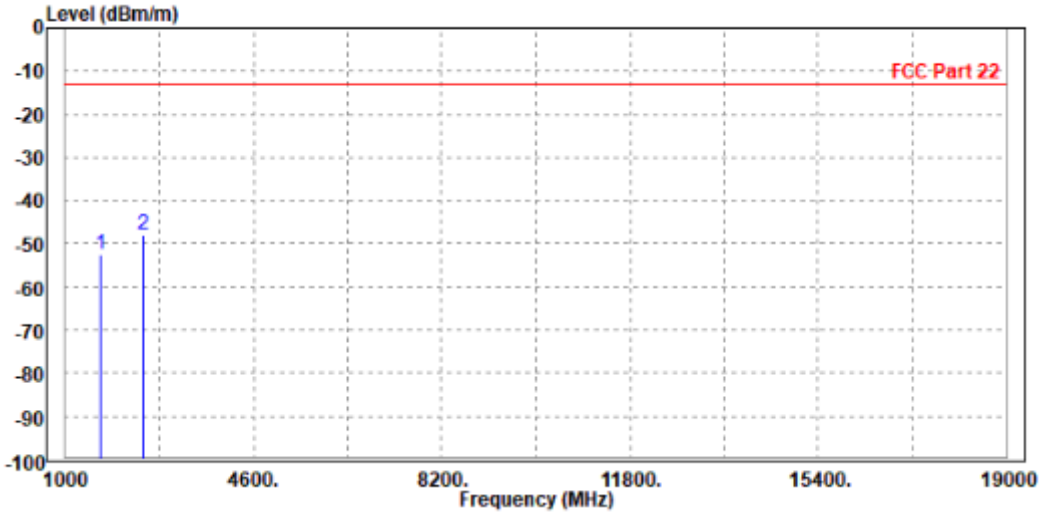
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1676.000	-53.86	-57.50	-13.00	-40.86	3.64	Peak	Vertical
2 PP	2494.800	-49.17	-56.23	-13.00	-36.17	7.06	Peak	Vertical



CH20501/20600:

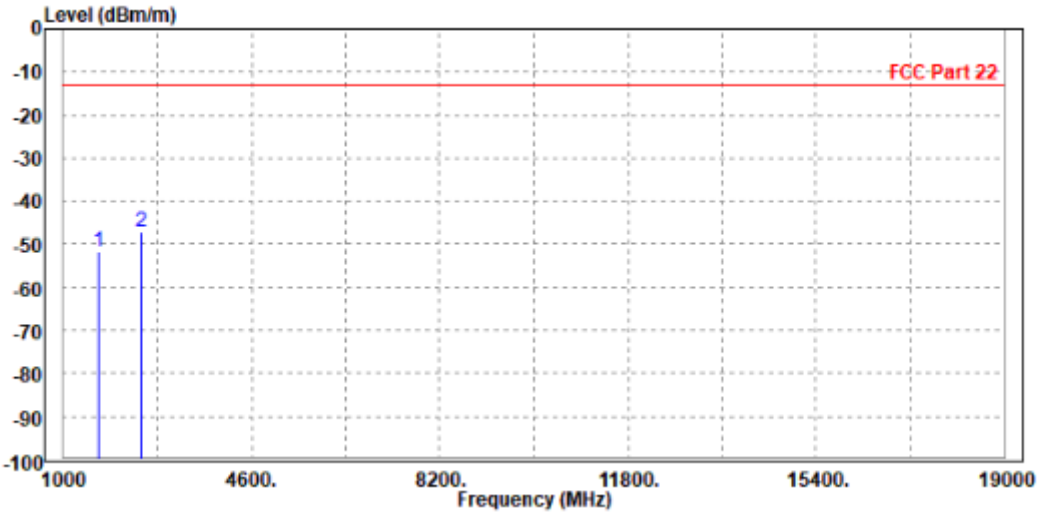
MODE	TX channel 20501/20600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1668.200	-52.58	-56.08	-13.00	-39.58	3.50	Peak	Horizontal
2 PP	2494.000	-47.92	-55.96	-13.00	-34.92	8.04	Peak	Horizontal



MODE	TX channel 20501/20600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-51.77	-55.31	-13.00	-38.77	3.54	Peak	Vertical
2 PP	2502.300	-47.22	-54.29	-13.00	-34.22	7.07	Peak	Vertical



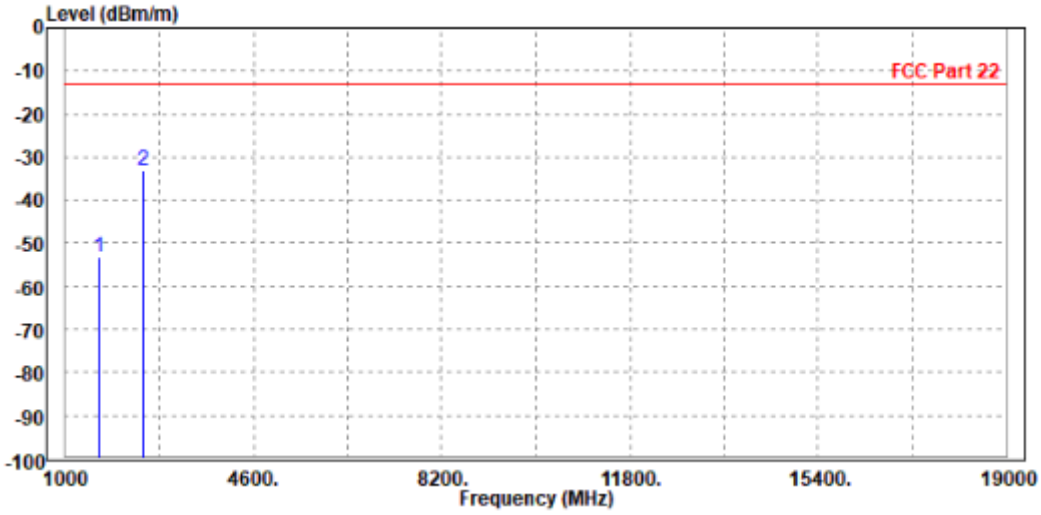
LTE Band 26

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH26797

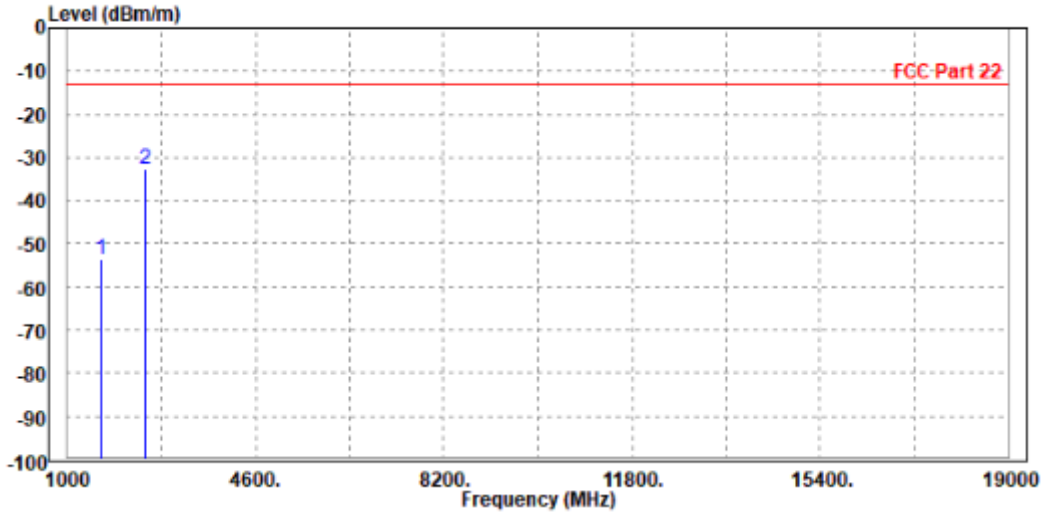
MODE	TX channel 26797	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1648.000	-53.36	-56.61	-13.00	-40.36	3.25	Peak	Horizontal
2 PP	2474.100	-32.93	-40.95	-13.00	-19.93	8.02	Peak	Horizontal



MODE	TX channel 26797	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

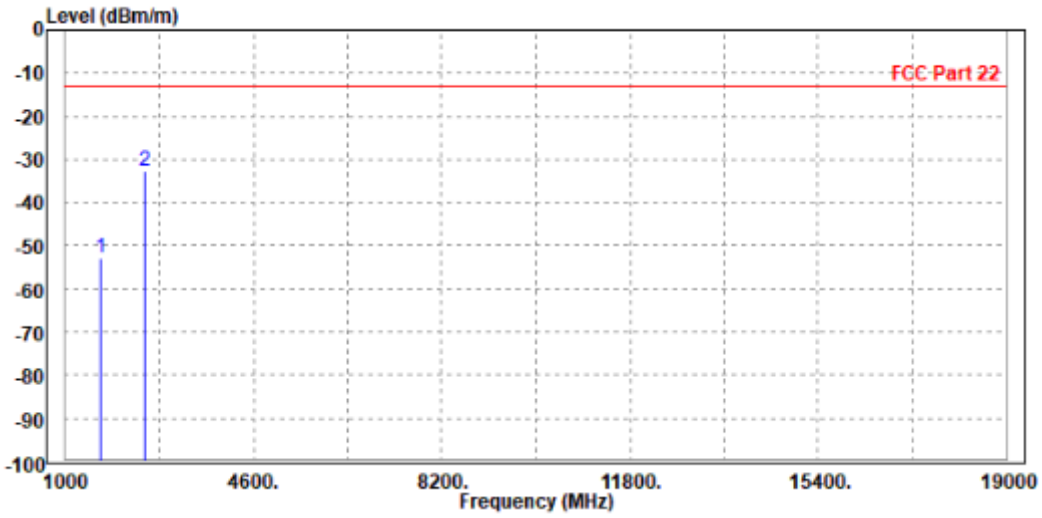
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1648.000	-53.50	-56.88	-13.00	-40.50	3.38	Peak	Vertical
2 PP	2474.100	-32.63	-39.67	-13.00	-19.63	7.04	Peak	Vertical



CH26915

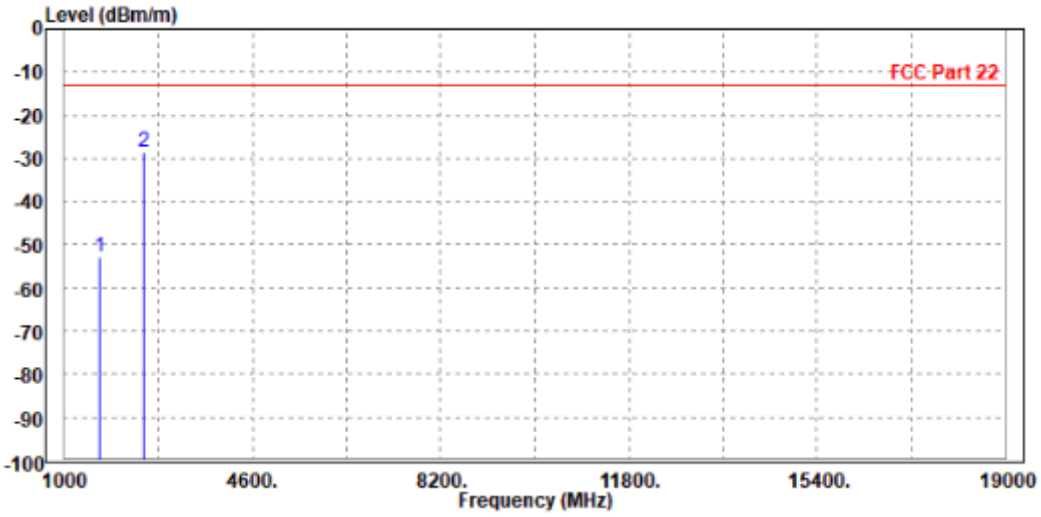
MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.91	-56.38	-13.00	-39.91	3.47	Peak	Horizontal
2 PP	2509.500	-32.66	-40.72	-13.00	-19.66	8.06	Peak	Horizontal



MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

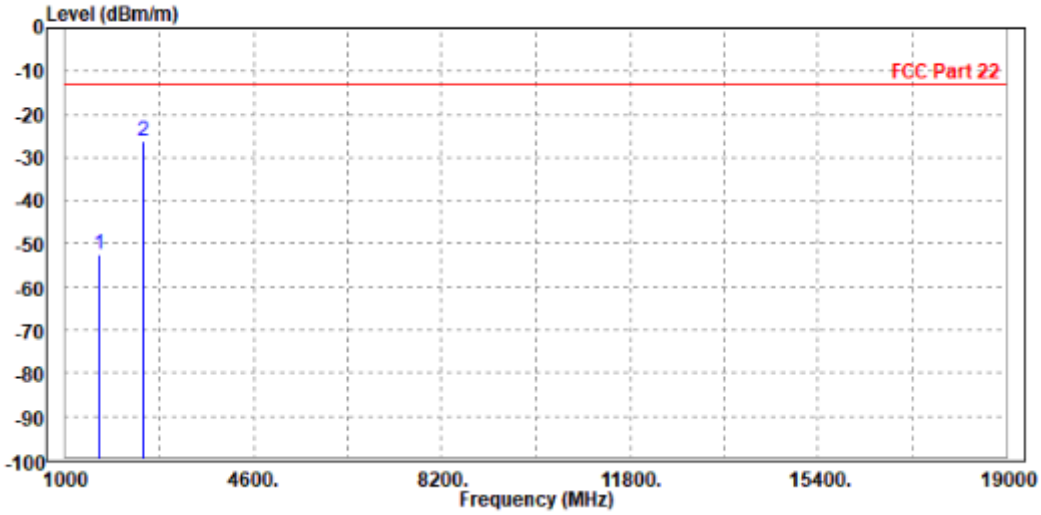
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.92	-56.46	-13.00	-39.92	3.54	Peak	Vertical
2 PP	2512.000	-28.39	-35.50	-13.00	-15.39	7.11	Peak	Vertical



CH27033

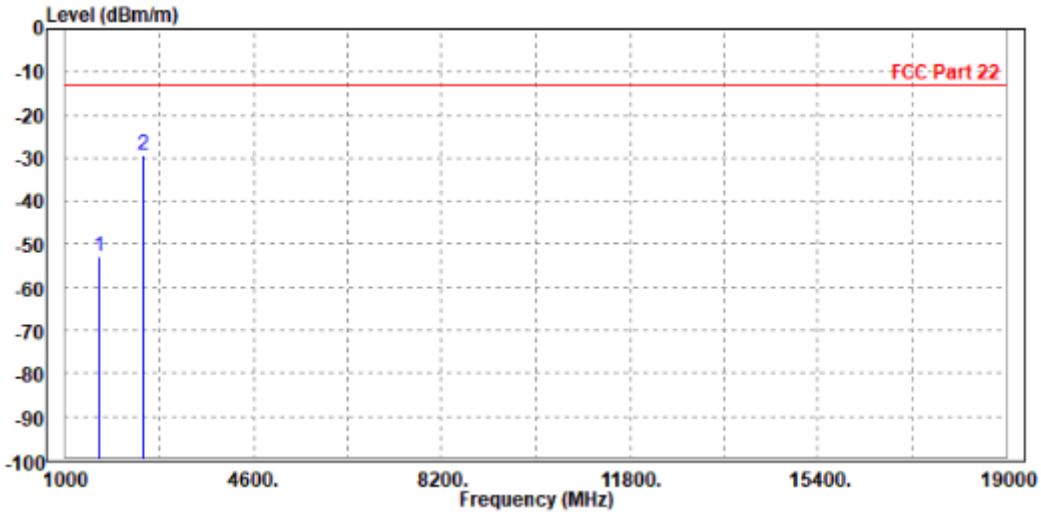
MODE	TX channel 27033	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1648.000	-52.30	-55.55	-13.00	-39.30	3.25	Peak	Horizontal
2 PP	2474.100	-26.26	-34.28	-13.00	-13.26	8.02	Peak	Horizontal



MODE	TX channel 27033	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

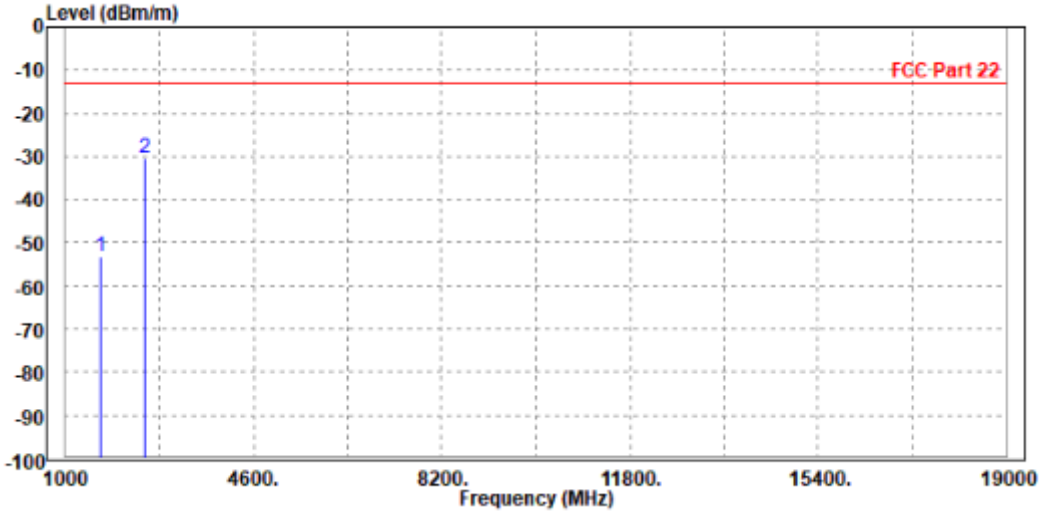
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1648.000	-52.85	-56.23	-13.00	-39.85	3.38	Peak	Vertical
2 PP	2474.100	-29.27	-36.31	-13.00	-16.27	7.04	Peak	Vertical



CHANNEL BANDWIDTH: 3MHz / QPSK

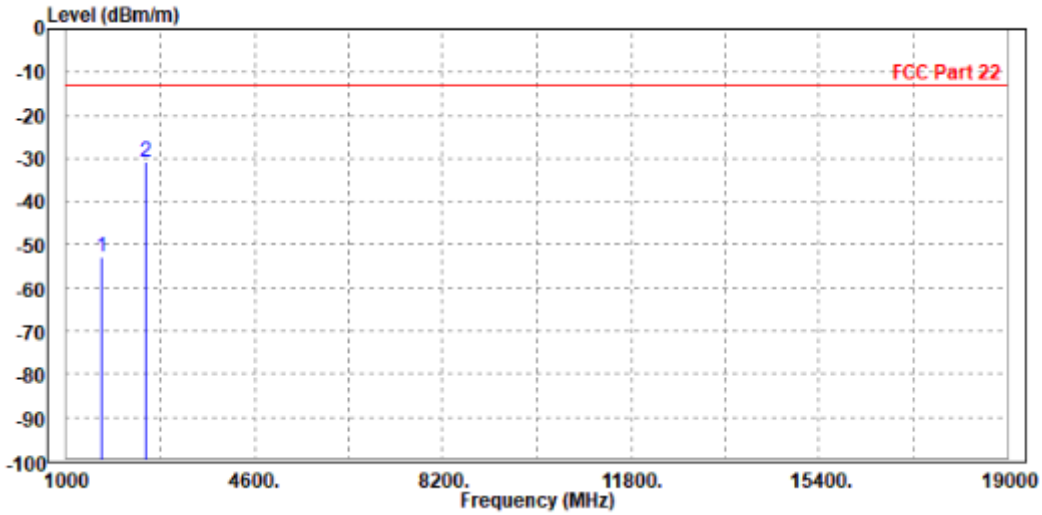
MODE	TX channel 26915	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-53.20	-56.67	-13.00	-40.20	3.47	Peak	Horizontal
2 PP	2512.000	-30.56	-38.62	-13.00	-17.56	8.06	Peak	Horizontal



MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

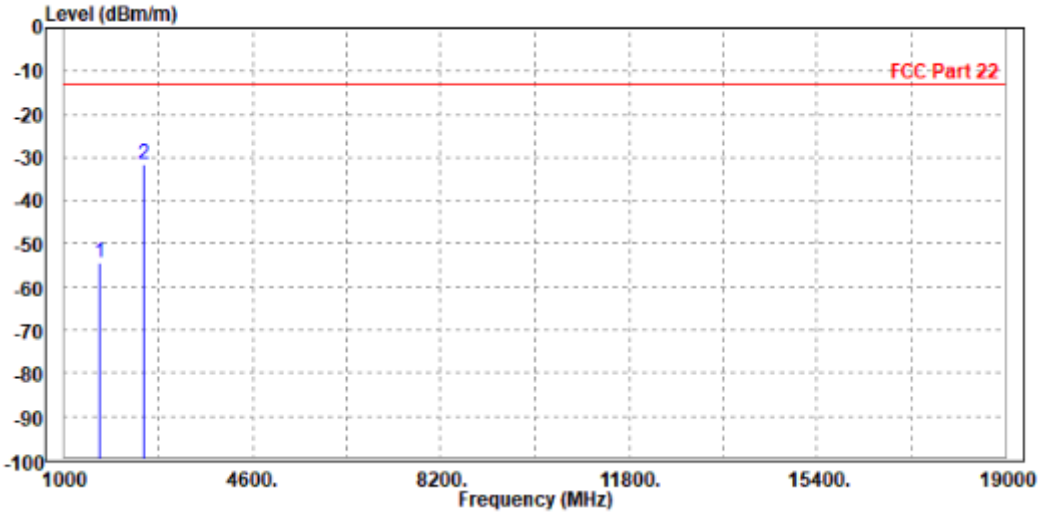
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.92	-56.46	-13.00	-39.92	3.54	Peak	Vertical
2 PP	2509.500	-30.66	-37.76	-13.00	-17.66	7.10	Peak	Vertical



CHANNEL BANDWIDTH: 5MHz / QPSK

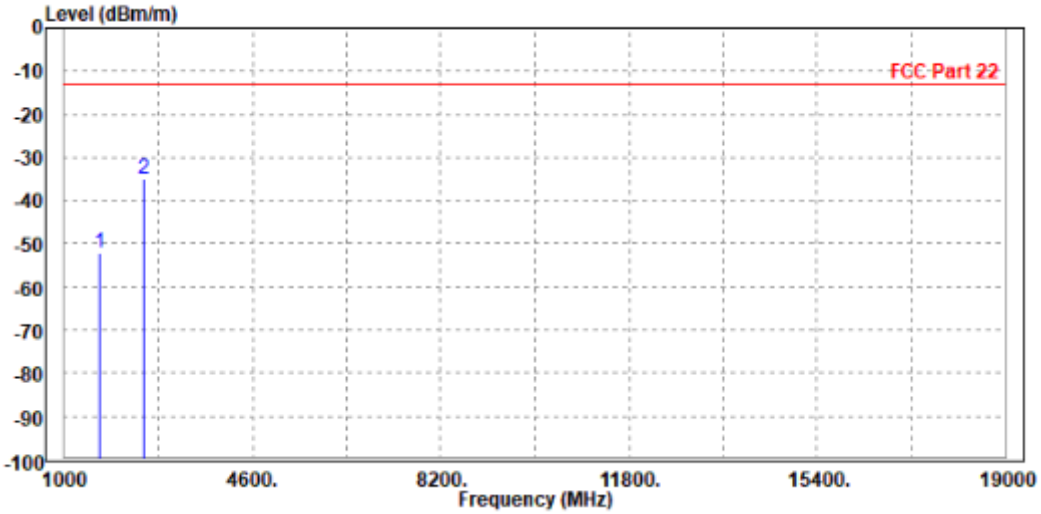
MODE	TX channel 26915	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-54.30	-57.77	-13.00	-41.30	3.47	Peak	Horizontal
2 PP	2512.000	-31.71	-39.77	-13.00	-18.71	8.06	Peak	Horizontal



MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

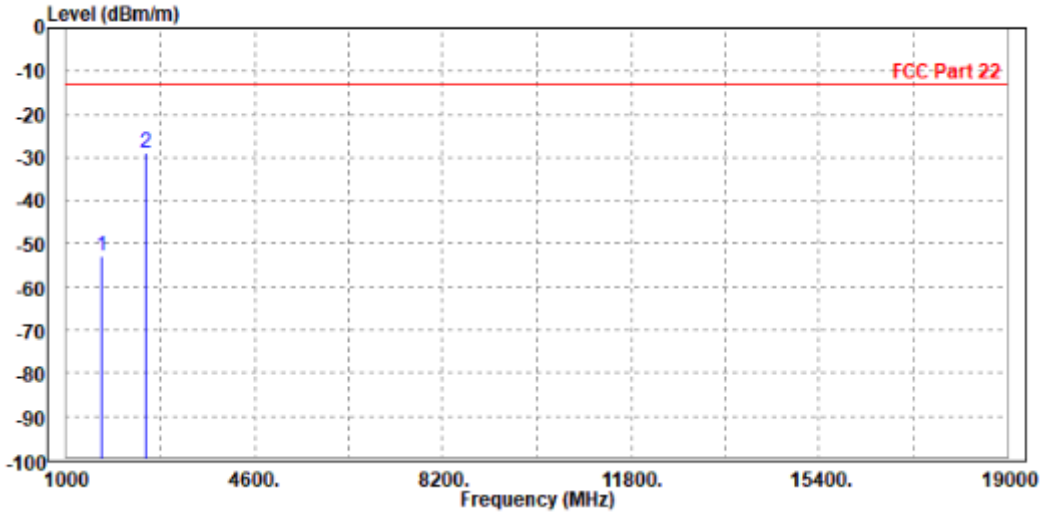
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.23	-55.77	-13.00	-39.23	3.54	Peak	Vertical
2 PP	2509.500	-35.15	-42.25	-13.00	-22.15	7.10	Peak	Vertical



CHANNEL BANDWIDTH: 10MHz / QPSK

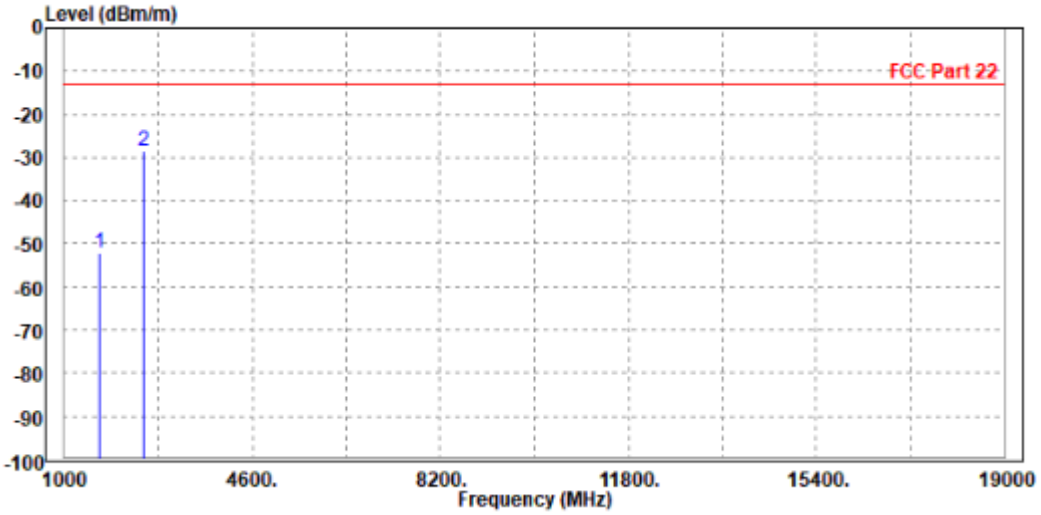
MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-53.02	-56.49	-13.00	-40.02	3.47	Peak	Horizontal
2 PP	2512.000	-28.93	-36.99	-13.00	-15.93	8.06	Peak	Horizontal



MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-51.99	-55.53	-13.00	-38.99	3.54	Peak	Vertical
2 PP	2512.000	-28.52	-35.63	-13.00	-15.52	7.11	Peak	Vertical

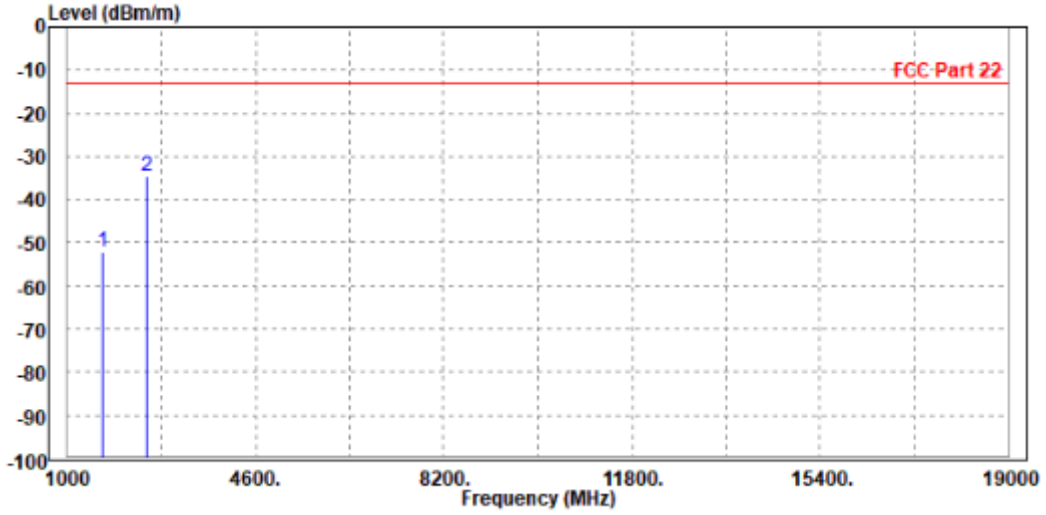


CHANNEL BANDWIDTH: 15MHz / QPSK

CH26915

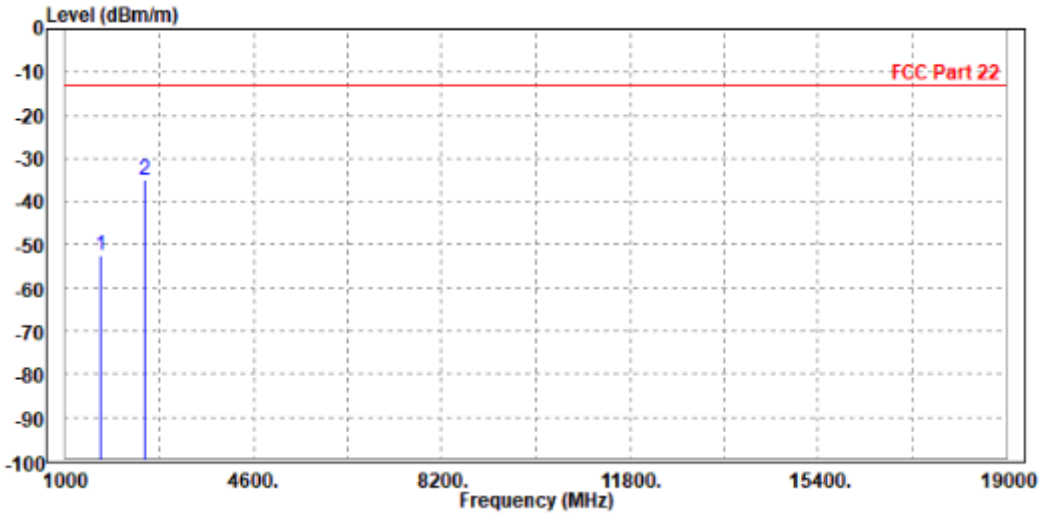
MODE	TX channel 26915	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.14	-55.61	-13.00	-39.14	3.47	Peak	Horizontal
2 PP	2512.000	-34.73	-42.79	-13.00	-21.73	8.06	Peak	Horizontal



MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-52.59	-56.13	-13.00	-39.59	3.54	Peak	Vertical
2 PP	2509.500	-34.81	-41.91	-13.00	-21.81	7.10	Peak	Vertical

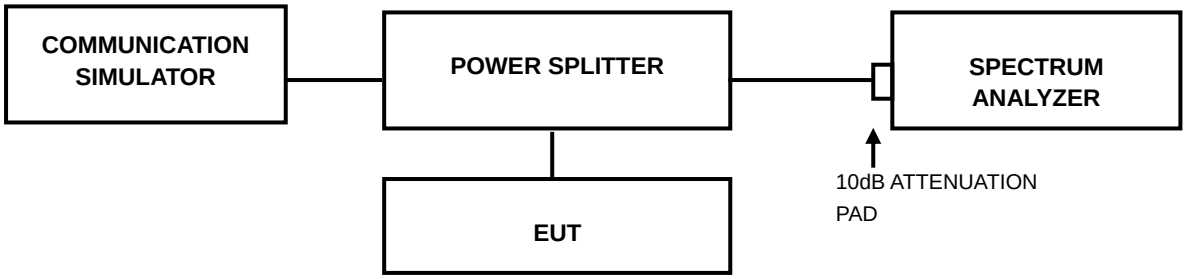


3.7 PEAK TO AVERAGE RATIO

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 A Of this test report.

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

5 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 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:

Shenzhen EMC/RF Lab:
Tel: +86-755-88696566
Fax: +86-755-88696577

Email: customerservice.sw@bureauveritas.com
Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

6 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.

NOTE: APPENDIX A is another word.

---END---