

FCC TEST REPORT

(PART 27)

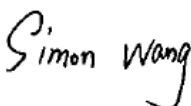
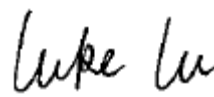
Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour, Hong Kong China

Manufacturer or Supplier:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	401 and 402, Building 3, Shenzhen Software Park, Nanshan District, Shenzhen City, Guangdong Province, P.R.C
Product:	Smart Desktop Terminal
Brand Name:	PAX
Model Name:	A8500P, A8500N
FCC ID:	V5PA85004G
Date of tests:	May. 5, 2023 ~ May. 29, 2023

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

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

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

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: May. 29, 2023	 Date: May. 29, 2023

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

TABLE OF CONTENTS

RELEASE CONTROL RECORD	3
1 SUMMARY OF TEST RESULTS	4
1.1 MEASUREMENT UNCERTAINTY	6
1.2 TEST SITE AND INSTRUMENTS	7
2 GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF EUT	8
2.2 CONFIGURATION OF SYSTEM UNDER TEST	15
2.3 DESCRIPTION OF SUPPORT UNITS	16
2.4 TEST ITEM AND TEST CONFIGURATION	16
2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	21
3 TEST TYPES AND RESULTS	22
3.1 OUTPUT POWER MEASUREMENT	22
3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	22
3.1.2 TEST PROCEDURES	22
3.1.3 TEST SETUP	23
3.1.4 TEST RESULTS	24
3.6 RADIATED EMISSION MEASUREMENT	49
3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT	49
3.6.2 TEST PROCEDURES	49
3.6.3 DEVIATION FROM TEST STANDARD	49
3.6.4 TEST SETUP	50
3.6.5 TEST RESULTS	52
4 INFORMATION ON THE TESTING LABORATORIES	108
5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	109



Test Report No.: W7L-P23050004RF06

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P23050004RF06	Original release	May. 29, 2023

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 27 & PART 2		
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
§2.1046	Conducted Output Power	Compliance
§27.50(b)(10) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2)	Effective Radiated Power (Band 4) (Band 12) (Band 13) (Band 17) (Band 66) (Band 71)	Compliance
§2.1055 §27.54	Frequency Stability	SEE NOTE
§2.1049	Occupied Bandwidth	SEE NOTE
§2.1051 §27.53(c)(2)(4) §27.53(g) §27.53(h) §27.53(m)(4)(6)	Conducted Band Edge Measurements (Band 4) (Band 12) (Band 13) (Band 17) (Band 66) (Band 71)	SEE NOTE
§2.1051 §27.53(c)(2)(4) §27.53(g) §27.53(h) §27.53(m)(4)(6)	Conducted Spurious Emissions (Band 4) (Band 12) (Band 13) (Band 17) (Band 66) (Band 71)	SEE NOTE
§2.1053 §27.53(c)(2)(4) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4)(6)	Radiated Spurious Emissions (Band 4) (Band 12) (Band 13) (Band 17) (Band 66) (Band 71)	Compliance
NA	Peak to average ratio	SEE NOTE

NOTE: Please refer to the report FG8O1914A/FG8O1914B (FCC-ID: ZMONL668AM00).



Test Report No.: W7L-P23050004RF06

***Test Lab Information Reference**

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

Lab Address:

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park,
Nanshan District, Shenzhen, Guangdong, China

Accredited Test Lab Cert 3939.01

The FCC Site Registration No. : 525120; Designation No. : CN1171;

1.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	UNCERTAINTY
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions & Radiated Power (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions & Radiated Power (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$
Conducted Output power	$\pm 2.06\text{dB}$

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	Mar. 28,23	Mar. 27,24
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.14,22	May.13,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.13,23	May.12,24
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,22	Sep.02,23
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 18,23	Feb. 17,24
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 18,23	Feb. 17,24
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.04, 22	Sep.03, 23
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,23	Feb. 13,24
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 07,22	May. 06,23
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,23	May. 05,24
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.11,23	May.10,24
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,23	Feb.16,24
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	May. 19,20	May. 18,23
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	May. 18,23	May. 17,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 07,22	May. 06,23
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,23	May. 05,24
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,23	Feb. 13,24
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,23	Feb. 13,24
Temperature Chamber	ESPEC	SH-242	93000855	May. 07,22	May. 06,23
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,23	May. 05,24
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,23	Feb. 13,24
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.12,22	May.11,23
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.11,23	May.10,24
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 12,22	Aug. 11,23

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GREGT/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	Smart Desktop Terminal	
BRAND NAME	PAX	
MODEL NAME	A8500P, A8500N	
NOMINAL VOLTAGE	5.0/9.0Vdc(adapter or host equipment)	
MODULATION TECHNOLOGY	WCDMA IV	BPSK, QPSK
	LTE	QPSK, 16QAM
FREQUENCY RANGE	WCDMA IV	1712.4MHz ~ 1752.6MHz
	LTE Band 4 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1754.3MHz
	LTE Band 4 Channel Bandwidth: 3MHz	1711.5MHz ~ 1753.5MHz
	LTE Band 4 Channel Bandwidth: 5MHz	1712.5MHz ~ 1752.5MHz
	LTE Band 4 Channel Bandwidth: 10MHz	1715MHz ~ 1750MHz
	LTE Band 4 Channel Bandwidth: 15MHz	1717.5MHz ~ 1747.5 MHz
	LTE Band 4 Channel Bandwidth: 20MHz	1720MHz ~ 1745MHz
	LTE Band 12 Channel Bandwidth: 1.4MHz	699.7MHz ~ 715.3MHz
	LTE Band 12 Channel Bandwidth: 3MHz	700.5MHz ~ 714.5MHz
	LTE Band 12 Channel Bandwidth: 5MHz	701.5MHz ~ 713.5MHz
	LTE Band 12 Channel Bandwidth: 10MHz	704MHz ~ 711MHz
	LTE Band 13 Channel Bandwidth: 5MHz	779.5MHz ~ 784.5MHz
	LTE Band 13 Channel Bandwidth: 10MHz	782MHz
	LTE Band 17 Channel Bandwidth: 5MHz	706.5MHz ~ 713.5MHz
	LTE Band 17 Channel Bandwidth: 10MHz	709MHz ~ 711 MHz
	LTE Band 66 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1779.3MHz
	LTE Band 66 Channel Bandwidth: 3MHz	1711.5MHz ~ 1778.5MHz
	LTE Band 66 Channel Bandwidth: 5MHz	1712.5MHz ~ 1777.5MHz



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VERITAS**

Test Report No.: W7L-P23050004RF06

	LTE Band 66 Channel Bandwidth: 10MHz	1715MHz ~ 1775MHz
	LTE Band 66 Channel Bandwidth: 15MHz	1717.5MHz ~ 1772.5MHz
	LTE Band 66 Channel Bandwidth: 20MHz	1720MHz ~ 1770MHz
	LTE Band 71 Channel Bandwidth: 5MHz	665.5MHz ~ 695.5MHz
	LTE Band 71 Channel Bandwidth: 10MHz	668MHz ~ 693MHz
	LTE Band 71 Channel Bandwidth: 15MHz	670.5MHz ~ 690.5MHz
	LTE Band 71 Channel Bandwidth: 20MHz	673MHz ~ 688MHz
MAX. EIRP POWER	WCDMA IV	242.1mW
	LTE Band 4 Channel Bandwidth: 1.4MHz	226.46mW
	LTE Band 4 Channel Bandwidth: 3MHz	226.99mW
	LTE Band 4 Channel Bandwidth: 5MHz	226.99mW
	LTE Band 4 Channel Bandwidth: 10MHz	226.46mW
	LTE Band 4 Channel Bandwidth: 15MHz	229.09mW
	LTE Band 4 Channel Bandwidth: 20MHz	229.61mW
	LTE Band 12 Channel Bandwidth: 1.4MHz	171mW
	LTE Band 12 Channel Bandwidth: 3MHz	171mW
	LTE Band 12 Channel Bandwidth: 5MHz	171mW
	LTE Band 12 Channel Bandwidth: 10MHz	171.79mW
	LTE Band 13 Channel Bandwidth: 5MHz	179.89mW
	LTE Band 13 Channel Bandwidth: 10MHz	181.55mW
	LTE Band 17 Channel Bandwidth: 5MHz	162.93mW
	LTE Band 17 Channel Bandwidth: 10MHz	164.82mW



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Test Report No.: W7L-P23050004RF06

	LTE Band 66 Channel Bandwidth: 1.4MHz	223.36mW
	LTE Band 66 Channel Bandwidth: 3MHz	224.39mW
	LTE Band 66 Channel Bandwidth: 5MHz	223.36mW
	LTE Band 66 Channel Bandwidth: 10MHz	223.87mW
	LTE Band 66 Channel Bandwidth: 15MHz	223.36mW
	LTE Band 66 Channel Bandwidth: 20MHz	225.42mW
	LTE Band 71 Channel Bandwidth: 5MHz	146.22mW
	LTE Band 71 Channel Bandwidth: 10MHz	147.23mW
	LTE Band 71 Channel Bandwidth: 15MHz	146.89mW
	LTE Band 71 Channel Bandwidth: 20MHz	148.59mW
EMISSION DESIGNATOR	WCDMA IV	4M13F9W
	LTE Band 4 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D
		16QAM: 1M09W7D
		64QAM: /
	LTE Band 4 Channel Bandwidth: 3MHz	QPSK: 2M72G7D
		16QAM: 2M73W7D
		64QAM: /
	LTE Band 4 Channel Bandwidth: 5MHz	QPSK: 4M52G7D
		16QAM: 4M50W7D
		64QAM: /
	LTE Band 4 Channel Bandwidth: 10MHz	QPSK: 9M05G7D
		16QAM: 9M09W7D
		64QAM: /
	LTE Band 4 Channel Bandwidth: 15MHz	QPSK: 13M4G7D
		16QAM: 13M5W7D
		64QAM: /
	LTE Band 4 Channel Bandwidth: 20MHz	QPSK: 18M4G7D
		16QAM: 18M3W7D
		64QAM: /

EMISSION DESIGNATOR	LTE Band 12 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D
		16QAM: 1M09W7D
		64QAM: /
	LTE Band 12 Channel Bandwidth: 3MHz	QPSK: 2M72G7D
		16QAM: 2M74W7D
		64QAM: /
	LTE Band 12 Channel Bandwidth: 5MHz	QPSK: 4M49G7D
		16QAM: 4M50W7D
		64QAM: /
	LTE Band 12 Channel Bandwidth: 10MHz	QPSK: 9M03G7D
		16QAM: 9M05W7D
		64QAM: /
	LTE Band 13 Channel Bandwidth: 5MHz	QPSK: 4M52G7D
		16QAM: 4M50W7D
		64QAM: /
	LTE Band 13 Channel Bandwidth: 10MHz	QPSK: 8M99G7D
		16QAM: 9M01W7D
		64QAM: /
	LTE Band 17 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M49W7D
		64QAM: /
	LTE Band 17 Channel Bandwidth: 10MHz	QPSK: 8M99G7D
		16QAM: 9M05W7D
		64QAM: /
	LTE Band 66 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D
		16QAM: 1M10W7D
		64QAM: /
	LTE Band 66 Channel Bandwidth: 3MHz	QPSK: 2M73G7D
		16QAM: 2M73W7D
		64QAM: /
	LTE Band 66 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M50W7D
		64QAM: /
	LTE Band 66 Channel Bandwidth: 10MHz	QPSK: 9M05G7D
		16QAM: 9M01W7D
		64QAM: /
	LTE Band 66 Channel Bandwidth: 15MHz	QPSK: 13M4G7D
		16QAM: 13M5W7D
		64QAM: /
	LTE Band 66 Channel Bandwidth: 20MHz	QPSK: 18M3G7D
		16QAM: 18M3W7D
		64QAM: /



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VERITAS**

Test Report No.: W7L-P23050004RF06

	LTE Band 71 Channel Bandwidth: 5MHz	QPSK: 4M51G7D
		16QAM: 4M53W7D
		64QAM: /
	LTE Band 71 Channel Bandwidth: 10MHz	QPSK: 9M03G7D
		16QAM: 9M03W7D
		64QAM: /
	LTE Band 71 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M4W7D
		64QAM: /
	LTE Band 71 Channel Bandwidth: 20MHz	QPSK: 18M3G7D
		16QAM: 18M3W7D
		64QAM: /
ANTENNA TYPE	Fixed Internal Antenna with 0.7dBi gain for WCDMA IV Fixed Internal Antenna with 0.7dBi gain for LTE4 Fixed Internal Antenna with 1.5dBi gain for LTE12 Fixed Internal Antenna with 1.5dBi gain for LTE13 Fixed Internal Antenna with 1.5dBi gain for LTE17 Fixed Internal Antenna with 0.7dBi gain for LTE66 Fixed Internal Antenna with 1.5dBi gain for LTE71	
HW VERSION	A8500P	
SW VERSION	V0.0.0.1	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	USB cable: non-shielded cable, with w/o ferrite core, 1.0 meter	
EXTREME TEMPERATURE	-10-50 °C	
EXTREME VOLTAGE	8.55V – 9.9V	

NOTE:

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

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

3. For the test results, the EUT had been tested with all conditions. But only the worst case (A8500P) was shown in test report.

4. The difference of A8500N and A8500P is on below:

Object	A8500P	A8500N
Printer	Support	NO support
Adapter 1	Model Name : SW-0396A I/P: 100-240Vac,800mA, O/P: 9.0Vdc, 1000mA	Model Name: SW-0983 I/P: 100-240Vac, 500mA, O/P: 5.0Vdc,2000mA
Adapter 2	Model Name: G024A090100ZZUD I/P: 100-240Vac,800mA, O/P: 9.0Vdc, 1000mA	Model Name: GLH50E2000HW I/P: 100-240Vac, 500mA, O/P: 5.0Vdc,2000mA
LCD Panel 1	Supplier : Hubei Yiou Electronics Co., Ltd Model Name: YH-500BSC046C0-19A00-PTM0 Specifications : 5.0 inch/ 720*RGB*1280 Pixel	
LCD Panel 2	Supplier : Shenzhen Hongzhan Optoelectronics Co., Ltd Model Name: F6050812B-04 Specifications :5.0 inch/ 720*RGB*1280 Pixel	
Automatic operating voltage	Minimum voltage: 8.55V	Minimum voltage: 5.25V
	Normal voltage: 9V	Normal voltage: 5V
	Maximum voltage: 9.9V	Maximum voltage: 4.75V
Note: When the operating voltage changes, It does not affect RF baseband module		

List of Accessory:

A8500N

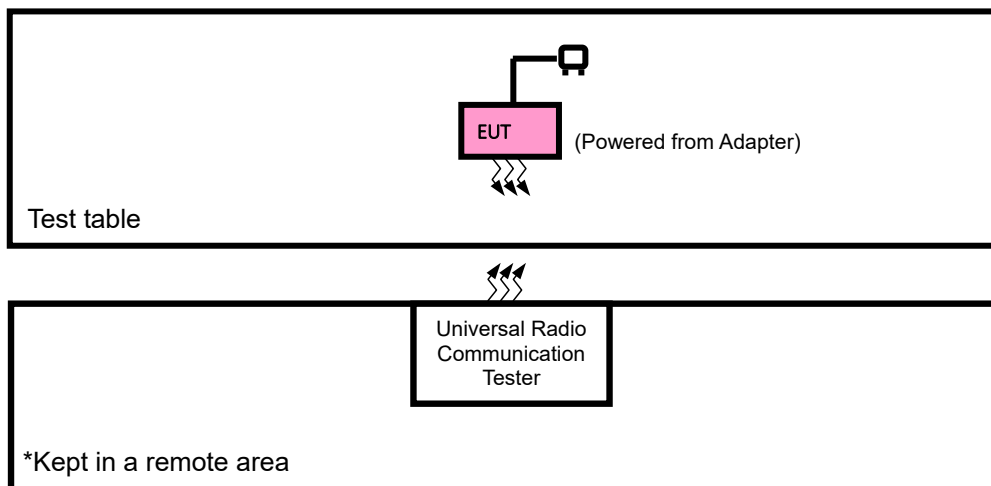
ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
AC Adapter 1	PAX	XIAMEN KELI ELECTRONICS Co.,Ltd.	SW-0983	I/P: 100-240Vac, 0.5A, O/P: 5.0Vdc, 2A
AC Adapter 2	PAX	Shenzhen Sorghum Red Electronic Technology Co., Ltd	GLH50E2000HW	I/P: 100-240Vac, 0.4A, O/P: 5.0Vdc, 2A
USB Cable	N/A	N/A	N/A	Signal Line, 1.0meter

A8500P

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
AC Adapter 1	PAX	XIAMEN KELI ELECTRONICS Co.,Ltd.	SW-0396A	I/P: 100-240Vac, 0.5A, O/P: 9.0Vdc, 1A
AC Adapter 2	PAX	Shenzhen Sorghum Red Electronic Technology Co., Ltd	G024A090100ZZ UD	I/P: 100-240Vac, 0.8A, O/P: 9.0Vdc, 1A

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.8m

2.4 TEST ITEM AND TEST CONFIGURATION

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

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter + USB Cable with WCDMA or LTE link
B	EUT + DC source with GSM or WCDMA or LTE link

WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	1312 to 1513	1312, 1413, 1513	WCDMA
A	RADIATED EMISSION	1312 to 1513	1312, 1413, 1513	WCDMA

LTE BAND 4

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset

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

2. LTE Band 4 are covered by LTE Band 66, Because it is a subset of LTE Band 66 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 66

LTE BAND 12 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	23017 to 23173	23095	1.4MHz	QPSK	1 RB / 0 RB Offset
		23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23095	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23095	10MHz	QPSK	1 RB / 0 RB Offset

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

LTE BAND 13 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	ERP	23205 to 23255	23205, 20175, 23255	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23230	23230	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	23205 to 23255	23205, 20175, 23255	5MHz	QPSK	1 RB / 0 RB Offset
		23230	23230	10MHz	QPSK	1 RB / 0 RB Offset

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

LTE BAND 17 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
		23780 to 23800	23780, 23790, 23800	10MHz	QPSK,16QAM	1 RB / 0 RB Offset

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

2. LTE Band 17 are covered by LTE Band 12, Because it is a subset of LTE Band 12 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 12

LTE BAND 66

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM	1 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	131979 to 132665	132322	1.4MHz	QPSK	1 RB / 0 RB Offset
		131987 to 132657	132322	3MHz	QPSK	1 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK	1 RB / 0 RB Offset
		132022 to 132622	132322	10MHz	QPSK	1 RB / 0 RB Offset
		132047 to 132597	132322	15MHz	QPSK	1 RB / 0 RB Offset
		132072 to 132572	132322	20MHz	QPSK	1 RB / 0 RB Offset

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

LTE BAND 71

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	ERP	133147 to 133447	133147, 133247, 133447	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
		133172 to 133172	133172, 133272, 133172	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
		133197 to 133397	133197, 133297, 133397	15MHz	QPSK,16QAM	1 RB / 0 RB Offset
		133222 to 133372	133222, 133322, 133372	20MHz	QPSK,16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	133147 to 133447	133247	5MHz	QPSK	1 RB / 0 RB Offset
		133172 to 133172	133272	10MHz	QPSK	1 RB / 0 RB Offset
		133197 to 133397	133297	15MHz	QPSK	1 RB / 0 RB Offset
		133222 to 133372	133222, 133322, 133372	20MHz	QPSK	1 RB / 0 RB Offset

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



Test Report No.: W7L-P23050004RF06

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	DC 5V/9V By Adapter	Jace Hu
RADIATED EMISSION	23deg. C, 70%RH	DC 5V/9V By Adapter	Jace Hu



Test Report No.: W7L-P23050004RF06

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC 47 CFR Part 2

FCC 47 CFR Part 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

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

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

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

According to the specific rule Part 27.50(b)(10) and 27.50(c)(10) Fixed, mobile, and Portable stations (hand-held devices) transmitting in the 698-746 MHz, 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

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

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

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 LTE 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

CONDUCTED POWER MEASUREMENT:



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

3.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA IV		
TX Channel	1312	1413	1513
Rx Channel	1537	1638	1738
Frequency	1712.4	1732.6	1752.6
RMC 12.2K	23.14	23.10	23.07
HSDPA Subtest-1	21.18	21.16	21.13
HSDPA Subtest-2	21.70	21.63	21.60
HSDPA Subtest-3	20.87	20.78	20.64
HSDPA Subtest-4	20.87	20.72	20.59
HSUPA Subtest-1	20.62	20.70	20.66
HSUPA Subtest-2	19.20	19.24	19.21
HSUPA Subtest-3	19.65	19.76	19.68
HSUPA Subtest-4	19.13	19.25	19.24
HSUPA Subtest-5	20.56	20.67	20.62

LTE Band 4

Band/BW	Modulation	RB Size	RB Offset	Low CH 19957	Mid CH 20175	High CH 20393
				Frequency 1710.7 MHz	Frequency 1732.5 MHz	Frequency 1754.3 MHz
4/ 1.4	QPSK	1	0	22.29	22.48	22.44
		1	2	22.64	22.85	22.81
		1	5	22.05	22.24	22.32
		3	0	22.21	22.39	22.37
		3	1	22.16	22.39	22.41
		3	3	22.04	22.17	22.19
		6	0	21.11	21.32	21.24
	16QAM	1	0	21.02	21.20	21.26
		1	2	21.14	21.38	21.40
		1	5	20.90	20.97	21.16
		3	0	21.18	21.47	21.43
		3	1	21.20	21.43	21.45
		3	3	21.15	21.28	21.24
		6	0	20.01	20.33	20.26

Band/BW	Modulation	RB Size	RB Offset	Low CH 19965	Mid CH 20175	High CH 20385
				Frequency 1711.5 MHz	Frequency 1732.5 MHz	Frequency 1753.5 MHz
4/ 3	QPSK	1	0	22.24	22.47	22.41
		1	7	22.60	22.86	22.81
		1	14	21.99	22.29	22.31
		8	0	21.19	21.46	21.37
		8	3	21.13	21.36	21.41
		8	7	21.01	21.24	21.23
		15	0	21.07	21.33	21.22
	16QAM	1	0	21.05	21.19	21.30
		1	7	21.08	21.42	21.37
		1	14	20.92	20.99	21.15
		8	0	20.20	20.45	20.43
		8	3	20.22	20.36	20.48
		8	7	20.18	20.31	20.17
		15	0	20.02	20.27	20.25

Band/BW	Modulation	RB Size	RB Offset	Low CH 19975	Mid CH 20175	High CH 20375
				Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz
4/ 5	QPSK	1	0	22.25	22.46	22.45
		1	12	22.63	22.86	22.78
		1	24	21.99	22.30	22.32
		12	0	21.23	21.42	21.38
		12	6	21.11	21.39	21.44
		12	13	21.02	21.20	21.23
		25	0	21.04	21.36	21.21
	16QAM	1	0	21.05	21.19	21.29
		1	12	21.08	21.40	21.34
		1	24	20.89	21.03	21.11
		12	0	20.15	20.47	20.46
		12	6	20.22	20.37	20.45
		12	13	20.12	20.28	20.23
		25	0	19.99	20.33	20.25

Band/BW	Modulation	RB Size	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350
				Frequency 1715 MHz	Frequency 1732.5 MHz	Frequency 1750 MHz
4/ 10	QPSK	1	0	22.22	22.50	22.41
		1	24	22.64	22.85	22.81
		1	49	22.05	22.24	22.32
		25	0	21.21	21.39	21.37
		25	12	21.16	21.39	21.41
		25	25	21.02	21.17	21.19
		50	0	21.09	21.32	21.24
	16QAM	1	0	21.05	21.20	21.26
		1	24	21.10	21.38	21.40
		1	49	20.93	20.97	21.16
		25	0	20.14	20.48	20.43
		25	12	20.26	20.36	20.49
		25	25	20.11	20.29	20.20
		50	0	20.04	20.29	20.29

Band/BW	Modulation	RB Size	RB Offset	Low CH 20025	Mid CH 20175	High CH 20325
				Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz
4/ 15	QPSK	1	0	22.26	22.51	22.40
		1	37	22.65	22.90	22.79
		1	74	22.01	22.26	22.36
		36	0	21.26	21.45	21.34
		36	19	21.09	21.34	21.47
		36	39	21.08	21.21	21.22
		75	0	21.09	21.37	21.20
	16QAM	1	0	21.03	21.22	21.29
		1	37	21.10	21.44	21.39
		1	74	20.93	20.97	21.16
		36	0	20.14	20.48	20.43
		36	19	20.25	20.38	20.48
		36	39	20.18	20.28	20.17
		75	0	20.01	20.32	20.27

Band/BW	Modulation	RB Size	RB Offset	Low CH 20050	Mid CH 20175	High CH 20300
				Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz
4/ 20	QPSK	1	0	22.30	22.54	22.46
		1	50	22.67	22.91	22.83
		1	99	22.07	22.31	22.37
		50	0	21.27	21.47	21.39
		50	25	21.17	21.41	21.49
		50	50	21.09	21.25	21.25
		100	0	21.12	21.38	21.26
	16QAM	1	0	21.07	21.27	21.31
		1	50	21.16	21.46	21.42
		1	99	20.95	21.05	21.17
		50	0	20.22	20.52	20.48
		50	25	20.28	20.44	20.50
		50	50	20.19	20.33	20.25
		100	0	20.07	20.35	20.31



**BUREAU
VERITAS**

Test Report No.: W7L-P23050004RF06

LTE Band 12

Band/BW	Modulation	RB Size	RB Offset	Low CH 23017	Mid CH 23095	High CH 23173
				Frequency 699.7 MHz	Frequency 707.5 MHz	Frequency 715.3 MHz
12/ 1.4	QPSK	1	0	22.53	22.75	22.83
		1	2	22.70	22.81	22.98
		1	5	22.45	22.57	22.73
		3	0	22.42	22.59	22.72
		3	1	22.41	22.67	22.64
		3	3	22.30	22.46	22.59
		6	0	21.39	21.58	21.66
	16QAM	1	0	21.10	21.30	21.42
		1	2	21.20	21.40	21.50
		1	5	20.96	21.07	21.27
		3	0	21.63	21.84	21.89
		3	1	21.43	21.74	21.73
		3	3	21.37	21.58	21.72
		6	0	20.33	20.56	20.62

Band/BW	Modulation	RB Size	RB Offset	Low CH 23025	Mid CH 23095	High CH 23165
				Frequency 700.5 MHz	Frequency 707.5 MHz	Frequency 714.5 MHz
12/ 3	QPSK	1	0	22.55	22.77	22.82
		1	7	22.66	22.82	22.98
		1	14	22.41	22.57	22.73
		8	0	21.41	21.62	21.72
		8	3	21.34	21.67	21.66
		8	7	21.27	21.53	21.63
		15	0	21.36	21.59	21.60
	16QAM	1	0	21.07	21.36	21.45
		1	7	21.17	21.43	21.48
		1	14	20.99	21.07	21.27
		8	0	20.59	20.85	20.89
		8	3	20.48	20.69	20.76
		8	7	20.39	20.56	20.68
		15	0	20.33	20.50	20.65

Band/BW	Modulation	RB Size	RB Offset	Low CH 23035	Mid CH 23095	High CH 23155
				Frequency 701.5 MHz	Frequency 707.5 MHz	Frequency 713.5 MHz
12/ 5	QPSK	1	0	22.56	22.72	22.83
		1	12	22.71	22.79	22.98
		1	24	22.42	22.56	22.77
		12	0	21.44	21.62	21.69
		12	6	21.34	21.68	21.67
		12	13	21.31	21.49	21.64
		25	0	21.34	21.62	21.63
	16QAM	1	0	21.08	21.32	21.45
		1	12	21.14	21.46	21.47
		1	24	20.99	21.07	21.26
		12	0	20.59	20.83	20.86
		12	6	20.45	20.73	20.72
		12	13	20.34	20.58	20.71
		25	0	20.33	20.51	20.62

Band/BW	Modulation	RB Size	RB Offset	Low CH 23060	Mid CH 23095	High CH 23130
				Frequency 704 MHz	Frequency 707.5 MHz	Frequency 711 MHz
12/ 10	QPSK	1	0	22.61	22.79	22.88
		1	24	22.73	22.87	23.00
		1	49	22.47	22.64	22.78
		25	0	21.48	21.67	21.74
		25	12	21.42	21.69	21.72
		25	25	21.35	21.54	21.65
		50	0	21.40	21.64	21.68
	16QAM	1	0	21.15	21.37	21.47
		1	24	21.22	21.48	21.52
		1	49	21.01	21.15	21.28
		25	0	20.67	20.89	20.94
		25	12	20.51	20.75	20.78
		25	25	20.41	20.63	20.73
		50	0	20.39	20.58	20.67



**BUREAU
VERITAS**

Test Report No.: W7L-P23050004RF06

LTE Band 13

Band/BW	Modulation	RB Size	RB Offset	Low CH 23205	Mid CH 23230	High CH 23255
				Frequency 779.5 MHz	Frequency 782.0 MHz	Frequency 784.5 MHz
13/ 5	QPSK	1	0	23.16	23.20	23.19
		1	12	23.05	22.99	23.06
		1	24	22.92	22.96	22.95
		12	0	21.65	21.62	21.66
		12	6	21.67	21.62	21.64
		12	13	21.65	21.63	21.69
		25	0	21.72	21.71	21.65
	16QAM	1	0	21.42	21.41	21.43
		1	12	21.50	21.47	21.51
		1	24	21.42	21.37	21.39
		12	0	20.67	20.65	20.71
		12	6	20.83	20.77	20.84
		12	13	20.84	20.88	20.87
		25	0	20.88	20.82	20.89

Band/BW	Modulation	RB Size	RB Offset	/	Mid CH 23230	/
				/	Frequency 782.0 MHz	/
13/ 10	QPSK	1	0	/	23.24	/
		1	24	/	23.07	/
		1	49	/	23.00	/
		25	0	/	21.68	/
		25	12	/	21.69	/
		25	25	/	21.71	/
		50	0	/	21.73	/
	16QAM	1	0	/	21.49	/
		1	24	/	21.53	/
		1	49	/	21.44	/
		25	0	/	20.73	/
		25	12	/	20.85	/
		25	25	/	20.92	/
		50	0	/	20.90	/



**BUREAU
VERITAS**

Test Report No.: W7L-P23050004RF06

LTE Band 17

Band/BW	Modulation	RB Size	RB Offset	Low CH 23755	Mid CH 23790	High CH 23825
				Frequency 706.5 MHz	Frequency 710 MHz	Frequency 713.5 MHz
17/ 5	QPSK	1	0	22.56	22.77	22.74
		1	12	22.33	22.64	22.47
		1	24	22.21	22.48	22.43
		12	0	21.44	21.79	21.62
		12	6	21.63	21.74	21.75
		12	13	21.42	21.69	21.54
		25	0	21.47	21.78	21.59
	16QAM	1	0	21.30	21.57	21.52
		1	12	21.28	21.49	21.42
		1	24	21.07	21.34	21.29
		12	0	20.36	20.71	20.52
		12	6	20.62	20.99	20.86
		12	13	20.46	20.67	20.50
		25	0	20.44	20.81	20.68

Band/BW	Modulation	RB Size	RB Offset	Low CH 23780	Mid CH 23790	High CH 23800
				Frequency 709 MHz	Frequency 710 MHz	Frequency 711 MHz
17/ 10	QPSK	1	0	22.60	22.82	22.75
		1	24	22.39	22.66	22.52
		1	49	22.28	22.53	22.45
		25	0	21.52	21.81	21.67
		25	12	21.65	21.82	21.77
		25	25	21.50	21.75	21.62
		50	0	21.53	21.80	21.65
	16QAM	1	0	21.37	21.62	21.54
		1	24	21.34	21.56	21.47
		1	49	21.14	21.39	21.31
		25	0	20.44	20.73	20.58
		25	12	20.70	21.00	20.88
		25	25	20.50	20.72	20.58
		50	0	20.52	20.82	20.70

LTE Band 66

Band/BW	Modulation	RB Size	RB Offset	Low CH 131979	Mid CH 132322	High CH 132665
				Frequency 1710.7MHz	Frequency 1745MHz	Frequency 1779.3MHz
66/ 1.4	QPSK	1	0	22.44	22.75	22.65
		1	2	22.55	22.77	22.79
		1	5	22.42	22.59	22.58
		3	0	22.37	22.60	22.64
		3	1	22.12	22.40	22.25
		3	3	21.97	22.24	22.20
		6	0	21.28	21.45	21.41
	16QAM	1	0	21.24	21.52	21.48
		1	2	21.17	21.34	21.36
		1	5	21.05	21.19	21.28
		3	0	21.44	21.70	21.64
		3	1	21.19	21.46	21.41
		3	3	21.15	21.32	21.33
		6	0	20.30	20.55	20.53

Band/BW	Modulation	RB Size	RB Offset	Low CH 131987	Mid CH 132322	High CH 132657
				Frequency 1711.5MHz	Frequency 1745MHz	Frequency 1778.5MHz
66/ 3	QPSK	1	0	22.46	22.74	22.69
		1	7	22.57	22.81	22.76
		1	14	22.36	22.59	22.61
		8	0	21.42	21.64	21.63
		8	3	21.10	21.41	21.27
		8	7	20.98	21.27	21.24
		15	0	21.23	21.49	21.40
	16QAM	1	0	21.27	21.51	21.52
		1	7	21.11	21.38	21.33
		1	14	21.07	21.21	21.27
		8	0	20.47	20.70	20.61
		8	3	20.21	20.44	20.42
		8	7	20.17	20.30	20.29
		15	0	20.30	20.49	20.56

Band/BW	Modulation	RB Size	RB Offset	Low CH 131997	Mid CH 132322	High CH 132647
				Frequency 1712.5MHz	Frequency 1745MHz	Frequency 1777.5MHz
66/ 5	QPSK	1	0	22.47	22.72	22.65
		1	12	22.56	22.75	22.79
		1	24	22.39	22.58	22.62
		12	0	21.39	21.63	21.61
		12	6	21.05	21.41	21.28
		12	13	20.98	21.27	21.25
		25	0	21.23	21.49	21.38
	16QAM	1	0	21.22	21.54	21.51
		1	12	21.11	21.40	21.33
		1	24	21.08	21.19	21.27
		12	0	20.40	20.69	20.61
		12	6	20.21	20.45	20.40
		12	13	20.12	20.32	20.32
		25	0	20.30	20.50	20.53

Band/BW	Modulation	RB Size	RB Offset	Low CH 132022	Mid CH 132322	High CH 132622
				Frequency 1715MHz	Frequency 1745MHz	Frequency 1775MHz
66/ 10	QPSK	1	0	22.49	22.73	22.68
		1	24	22.56	22.75	22.80
		1	49	22.36	22.62	22.58
		25	0	21.40	21.62	21.64
		25	12	21.11	21.35	21.28
		25	25	20.96	21.24	21.24
		50	0	21.28	21.49	21.35
	16QAM	1	0	21.22	21.51	21.47
		1	24	21.16	21.36	21.36
		1	49	21.08	21.20	21.24
		25	0	20.42	20.67	20.67
		25	12	20.25	20.39	20.45
		25	25	20.11	20.33	20.29
		50	0	20.34	20.49	20.57

Band/BW	Modulation	RB Size	RB Offset	Low CH 132047	Mid CH 132322	High CH 132597
				Frequency 1717.5 MHz	Frequency 1745MHz	Frequency 1772.5 MHz
66/ 15	QPSK	1	0	22.46	22.77	22.64
		1	37	22.51	22.78	22.79
		1	74	22.38	22.59	22.58
		36	0	21.36	21.63	21.64
		36	19	21.05	21.40	21.27
		36	39	20.94	21.31	21.24
		75	0	21.25	21.46	21.35
	16QAM	1	0	21.21	21.58	21.51
		1	37	21.14	21.37	21.34
		1	74	21.08	21.19	21.28
		36	0	20.40	20.71	20.64
		36	19	20.24	20.41	20.44
		36	39	20.17	20.30	20.29
		75	0	20.30	20.49	20.56

Band/BW	Modulation	RB Size	RB Offset	Low CH 132072	Mid CH 132322	High CH 132572
				Frequency 1720MHz	Frequency 1745MHz	Frequency 1770MHz
66/ 20	QPSK	1	0	22.52	22.79	22.70
		1	50	22.58	22.83	22.81
		1	99	22.44	22.66	22.63
		50	0	21.43	21.68	21.66
		50	25	21.13	21.42	21.33
		50	50	21.02	21.32	21.26
		100	0	21.29	21.51	21.43
	16QAM	1	0	21.29	21.59	21.53
		1	50	21.19	21.42	21.38
		1	99	21.10	21.27	21.29
		50	0	20.48	20.75	20.69
		50	25	20.27	20.47	20.46
		50	50	20.19	20.37	20.34
		100	0	20.36	20.57	20.58



**BUREAU
VERITAS**

Test Report No.: W7L-P23050004RF06

LTE Band 71

Band/BW	Modulation	RB Size	RB Offset	Low CH 133147	Mid CH 133247	High CH 133447
				Frequency 665.5MHz	Frequency 675.5MHz	Frequency 695.5MHz
71/ 5	QPSK	1	0	22.14	22.30	22.14
		1	12	22.15	22.25	22.06
		1	24	21.97	22.12	22.02
		12	0	21.34	21.47	21.26
		12	6	21.22	21.48	21.17
		12	13	21.29	21.44	21.29
		25	0	21.18	21.43	21.17
	16QAM	1	0	21.46	21.59	21.47
		1	12	21.55	21.82	21.56
		1	24	21.70	21.78	21.66
		12	0	20.44	20.59	20.32
		12	6	20.39	20.63	20.36
		12	13	20.38	20.52	20.35
		25	0	20.29	20.43	20.29

Band/BW	Modulation	RB Size	RB Offset	Low CH 133172	Mid CH 133272	High CH 133172
				Frequency 668MHz	Frequency 678MHz	Frequency 693MHz
71/ 10	QPSK	1	0	22.11	22.33	22.14
		1	24	22.15	22.25	22.07
		1	49	21.94	22.16	21.98
		25	0	21.35	21.46	21.29
		25	12	21.28	21.42	21.17
		25	25	21.27	21.41	21.28
		50	0	21.23	21.43	21.14
	16QAM	1	0	21.46	21.56	21.43
		1	24	21.60	21.78	21.59
		1	49	21.70	21.79	21.63
		25	0	20.46	20.57	20.38
		25	12	20.43	20.57	20.41
		25	25	20.37	20.53	20.32
		50	0	20.33	20.42	20.33

Band/BW	Modulation	RB Size	RB Offset	Low CH 133197	Mid CH 133297	High CH 133397
				Frequency 670.5MHz	Frequency 680.5MHz	Frequency 690.5MHz
71/ 15	QPSK	1	0	22.13	22.32	22.18
		1	37	22.16	22.31	22.03
		1	74	21.94	22.13	22.01
		36	0	21.37	21.48	21.28
		36	19	21.27	21.48	21.16
		36	39	21.29	21.44	21.28
		75	0	21.18	21.43	21.19
	16QAM	1	0	21.51	21.56	21.48
		1	37	21.55	21.80	21.56
		1	74	21.69	21.80	21.66
		36	0	20.51	20.60	20.32
		36	19	20.39	20.62	20.38
		36	39	20.43	20.50	20.32
		75	0	20.29	20.42	20.32

Band/BW	Modulation	RB Size	RB Offset	Low CH 133222	Mid CH 133322	High CH 133372
				Frequency 673MHz	Frequency 683MHz	Frequency 688MHz
71/ 20	QPSK	1	0	22.19	22.37	22.19
		1	50	22.17	22.33	22.08
		1	99	22.02	22.20	22.03
		50	0	21.38	21.52	21.31
		50	25	21.30	21.49	21.22
		50	50	21.33	21.49	21.30
		100	0	21.24	21.45	21.22
	16QAM	1	0	21.53	21.64	21.49
		1	50	21.63	21.84	21.61
		1	99	21.72	21.86	21.68
		50	0	20.52	20.65	20.40
		50	25	20.45	20.65	20.42
		50	50	20.45	20.57	20.37
		100	0	20.35	20.50	20.34

EIRP

WCDMA IV

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1312	1712.4	23.14	0.7	23.84	242.1	1
1413	1732.6	23.1	0.7	23.8	239.88	1
1513	1752.6	23.07	0.7	23.77	238.23	1

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	22.64	0.7	23.34	215.77	1
20175	1732.5	22.85	0.7	23.55	226.46	1
20393	1754.3	22.81	0.7	23.51	224.39	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	21.2	0.7	21.9	154.88	1
20175	1732.5	21.47	0.7	22.17	164.82	1
20393	1754.3	21.45	0.7	22.15	164.06	1

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	22.6	0.7	23.3	213.8	1
20175	1732.5	22.86	0.7	23.56	226.99	1
20385	1753.5	22.81	0.7	23.51	224.39	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	21.08	0.7	21.78	150.66	1
20175	1732.5	21.08	0.7	21.78	150.66	1
20385	1753.5	20.92	0.7	21.62	145.21	1

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	22.63	0.7	23.33	215.28	1
20175	1732.5	22.86	0.7	23.56	226.99	1
20375	1752.5	22.78	0.7	23.48	222.84	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	21.08	0.7	21.78	150.66	1
20175	1732.5	21.4	0.7	22.1	162.18	1
20375	1752.5	21.34	0.7	22.04	159.96	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	22.64	0.7	23.34	215.77	1
20175	1732.5	22.85	0.7	23.55	226.46	1
20350	1750	22.81	0.7	23.51	224.39	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	21.1	0.7	21.8	151.36	1
20175	1732.5	21.38	0.7	22.08	161.44	1
20350	1750	21.4	0.7	22.1	162.18	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	22.65	0.7	23.35	216.27	1
20175	1732.5	22.9	0.7	23.6	229.09	1
20325	1747.5	22.79	0.7	23.49	223.36	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	21.1	0.7	21.8	151.36	1
20175	1732.5	21.44	0.7	22.14	163.68	1
20325	1747.5	21.39	0.7	22.09	161.81	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	22.67	0.7	23.37	217.27	1
20175	1732.5	22.91	0.7	23.61	229.61	1
20300	1745	22.83	0.7	23.53	225.42	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	21.16	0.7	21.86	153.46	1
20175	1732.5	21.46	0.7	22.16	164.44	1
20300	1745	21.42	0.7	22.12	162.93	1



**BUREAU
VERITAS**

Test Report No.: W7L-P23050004RF06

LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23017	699.7	22.7	1.5	22.05	160.32	3
23095	707.5	22.81	1.5	22.16	164.44	3
23173	715.3	22.98	1.5	22.33	171	3

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23017	699.7	21.63	1.5	20.98	125.31	3
23095	707.5	21.84	1.5	21.19	131.52	3
23173	715.3	21.89	1.5	21.24	133.05	3

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23025	700.5	22.66	1.5	22.01	158.85	3
23095	707.5	22.82	1.5	22.17	164.82	3
23165	714.5	22.98	1.5	22.33	171	3

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23025	700.5	21.17	1.5	20.52	112.72	3
23095	707.5	21.43	1.5	20.78	119.67	3
23165	714.5	21.48	1.5	20.83	121.06	3

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23035	701.5	22.71	1.5	22.06	160.69	3
23095	707.5	22.79	1.5	22.14	163.68	3
23155	713.5	22.98	1.5	22.33	171	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23035	701.5	21.14	1.5	20.49	111.94	3
23095	707.5	21.46	1.5	20.81	120.5	3
23155	713.5	21.47	1.5	20.82	120.78	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23060	704	22.73	1.5	22.08	161.44	3
23095	707.5	22.87	1.5	22.22	166.72	3
23130	711	23	1.5	22.35	171.79	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23060	704	21.22	1.5	20.57	114.02	3
23095	707.5	21.48	1.5	20.83	121.06	3
23130	711	21.52	1.5	20.87	122.18	3

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



**BUREAU
VERITAS**

Test Report No.: W7L-P23050004RF06

LTE BAND 13

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	23.16	1.5	22.51	178.24	3
23230	782	23.2	1.5	22.55	179.89	3
23255	784.5	23.19	1.5	22.54	179.47	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	21.5	1.5	20.85	121.62	3
23230	782	21.47	1.5	20.82	120.78	3
23255	784.5	21.51	1.5	20.86	121.9	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	23.24	1.5	22.59	181.55	3
-	-	-	-	-	-	-

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	21.53	1.5	20.88	122.46	3
-	-	-	-	-	-	-

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

LTE BAND 17

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23755	706.5	22.56	1.5	21.91	155.24	3
23790	710	22.77	1.5	22.12	162.93	3
23825	713.5	22.74	1.5	22.09	161.81	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23755	706.5	21.3	1.5	20.65	116.14	3
23790	710	21.57	1.5	20.92	123.59	3
23825	713.5	21.52	1.5	20.87	122.18	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23780	709	22.6	1.5	21.95	156.68	3
23790	710	22.82	1.5	22.17	164.82	3
23800	711	22.75	1.5	22.1	162.18	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23780	709	21.37	1.5	20.72	118.03	3
23790	710	21.62	1.5	20.97	125.03	3
23800	711	21.54	1.5	20.89	122.74	3

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



**BUREAU
VERITAS**

Test Report No.: W7L-P23050004RF06

LTE BAND 66

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	22.55	0.7	23.25	211.35	1
132322	1745	22.77	0.7	23.47	222.33	1
132665	1779.3	22.79	0.7	23.49	223.36	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	21.44	0.7	22.14	163.68	1
132322	1745	21.7	0.7	22.4	173.78	1
132665	1779.3	21.64	0.7	22.34	171.4	1

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	22.57	0.7	23.27	212.32	1
132322	1745	22.81	0.7	23.51	224.39	1
132657	1778.5	22.76	0.7	23.46	221.82	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	21.27	0.7	21.97	157.4	1
132322	1745	21.51	0.7	22.21	166.34	1
132657	1778.5	21.52	0.7	22.22	166.72	1

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	22.56	0.7	23.26	211.84	1
132322	1745	22.75	0.7	23.45	221.31	1
132647	1777.5	22.79	0.7	23.49	223.36	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
C	1712.5	21.22	0.7	21.92	155.6	1
132322	1745	21.54	0.7	22.24	167.49	1
132647	1777.5	21.51	0.7	22.21	166.34	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	22.56	0.7	23.26	211.84	1
132322	1745	22.75	0.7	23.45	221.31	1
132622	1775	22.8	0.7	23.5	223.87	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	21.22	0.7	21.92	155.6	1
132322	1745	21.51	0.7	22.21	166.34	1
132622	1775	21.47	0.7	22.17	164.82	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	22.51	0.7	23.21	209.41	1
132322	1745	22.78	0.7	23.48	222.84	1
132597	1772.5	22.79	0.7	23.49	223.36	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1715	21.21	0.7	21.91	155.24	1
132322	1745	21.58	0.7	22.28	169.04	1
132622	1775	21.51	0.7	22.21	166.34	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	22.58	0.7	23.28	212.81	1
132322	1745	22.83	0.7	23.53	225.42	1
132572	1770	22.81	0.7	23.51	224.39	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	21.29	0.7	21.99	158.12	1
132322	1745	21.59	0.7	22.29	169.43	1
132572	1770	21.53	0.7	22.23	167.11	1

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



**BUREAU
VERITAS**

Test Report No.: W7L-P23050004RF06

LTE BAND 71

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133147	665.5	22.15	1.5	21.5	141.25	1
133247	675.5	22.3	1.5	21.65	146.22	1
133447	695.5	22.14	1.5	21.49	140.93	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133147	665.5	21.7	1.5	21.05	127.35	1
133247	675.5	21.82	1.5	21.17	130.92	1
133447	695.5	21.66	1.5	21.01	126.18	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133172	668	22.15	1.5	21.5	141.25	1
133272	678	22.33	1.5	21.68	147.23	1
133422	693	22.14	1.5	21.49	140.93	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133172	668	21.7	1.5	21.05	127.35	1
133272	678	21.79	1.5	21.14	130.02	1
133422	693	21.63	1.5	20.98	125.31	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133197	670.5	22.16	1.5	21.51	141.58	1
133297	680.5	22.32	1.5	21.67	146.89	1
133397	690.5	22.18	1.5	21.53	142.23	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133197	670.5	21.69	1.5	21.04	127.06	1
133297	680.5	21.8	1.5	21.15	130.32	1
133397	690.5	21.66	1.5	21.01	126.18	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133222	673	22.19	1.5	21.54	142.56	1
133322	683	22.37	1.5	21.72	148.59	1
133372	688	22.19	1.5	21.54	142.56	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133222	673	21.72	1.5	21.07	127.94	1
133322	683	21.86	1.5	21.21	132.13	1
133372	688	21.68	1.5	21.03	126.77	1

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

- 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.
- 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.
- $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

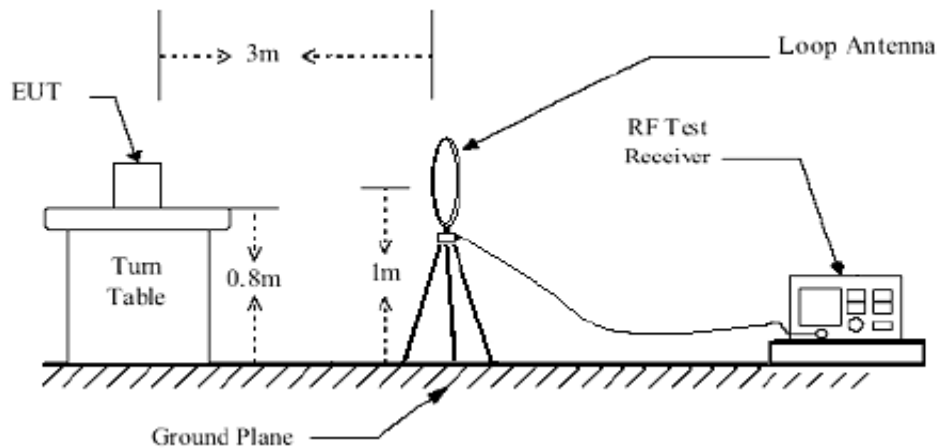
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

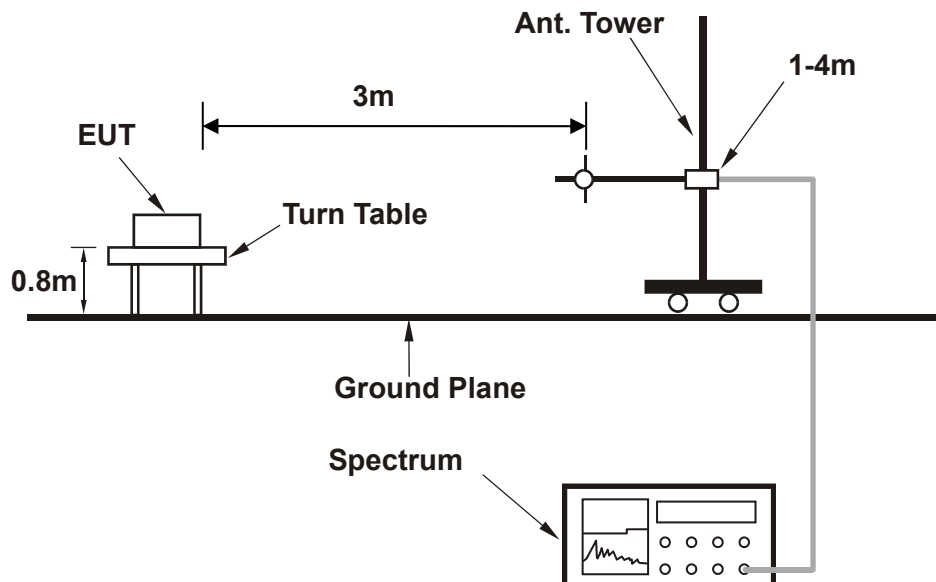
No deviation

3.6.4 TEST SETUP

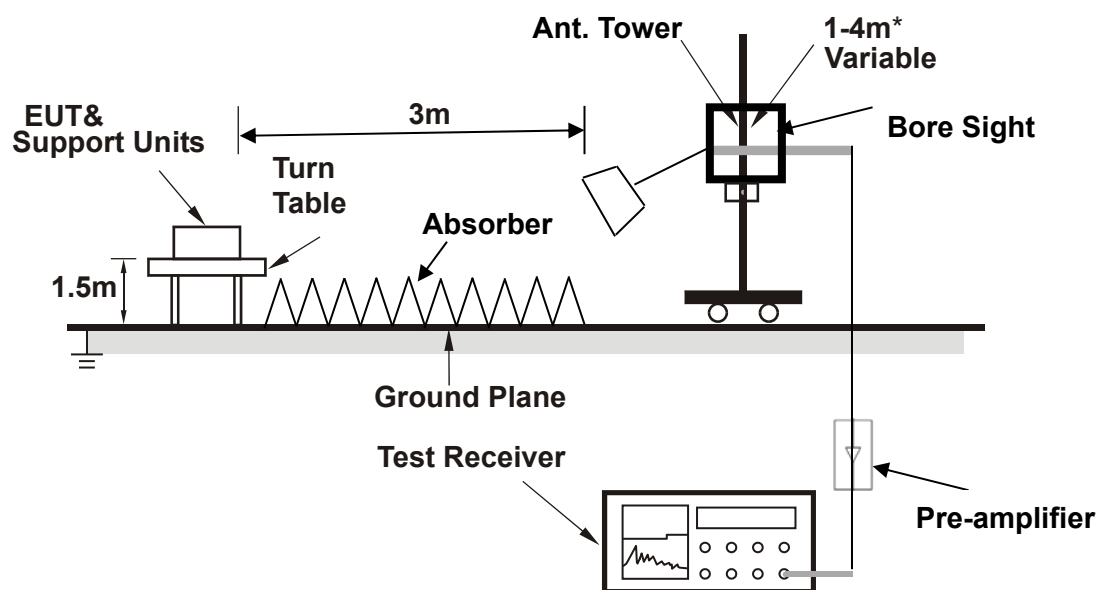
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



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

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

3.6.5 TEST RESULTS

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

BELOW 1GHz WORST-CASE DATA

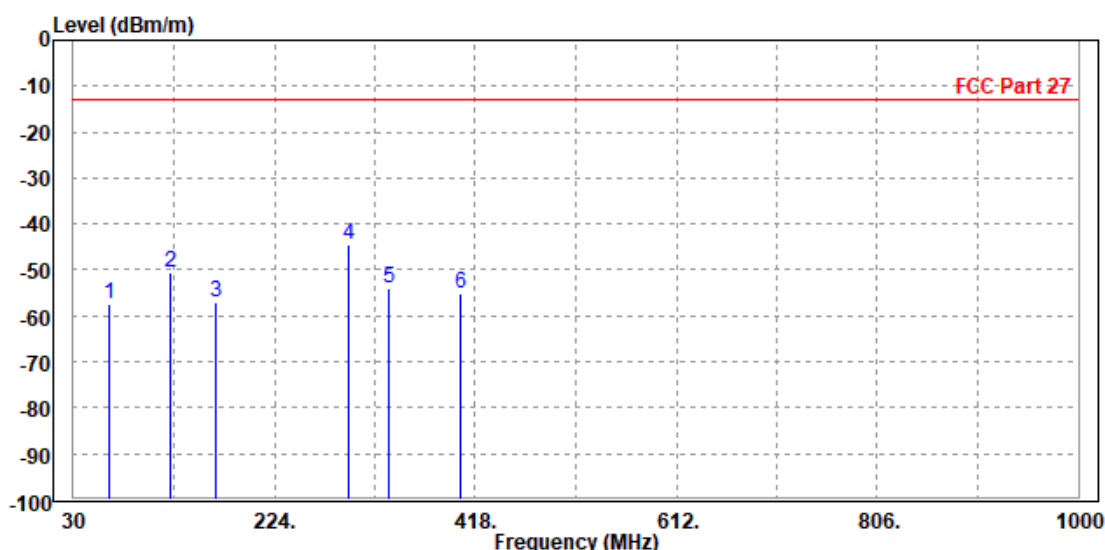
30 MHz – 1GHz data:

WCDMA IV

CHANNEL BANDWIDTH: 1312~1513

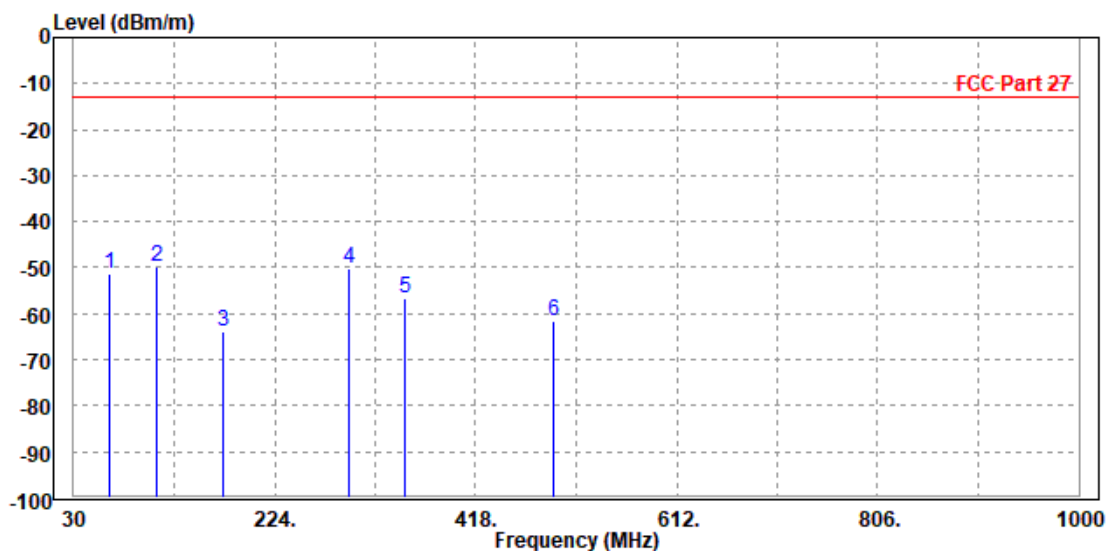
MODE	TX channel 1413	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	63.950	-57.38	-37.67	-13.00	-44.38	-19.71	Peak	Horizontal
2	123.120	-50.69	-29.80	-13.00	-37.69	-20.89	Peak	Horizontal
3	166.770	-57.07	-40.84	-13.00	-44.07	-16.23	Peak	Horizontal
4 PP	295.780	-44.61	-32.23	-13.00	-31.61	-12.38	Peak	Horizontal
5	334.580	-53.92	-42.30	-13.00	-40.92	-11.62	Peak	Horizontal
6	404.420	-55.06	-45.11	-13.00	-42.06	-9.95	Peak	Horizontal



MODE	TX channel 1413	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	63.950	-51.50	-28.59	-13.00	-38.50	-22.91	Peak	Vertical
2 PP	109.540	-49.87	-39.51	-13.00	-36.87	-10.36	Peak	Vertical
3	173.560	-63.84	-45.79	-13.00	-50.84	-18.05	Peak	Vertical
4	295.780	-50.25	-39.20	-13.00	-37.25	-11.05	Peak	Vertical
5	350.100	-56.62	-46.71	-13.00	-43.62	-9.91	Peak	Vertical
6	492.690	-61.42	-53.27	-13.00	-48.42	-8.15	Peak	Vertical





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Test Report No.: W7L-P23050004RF06

ABOVE 1GHz

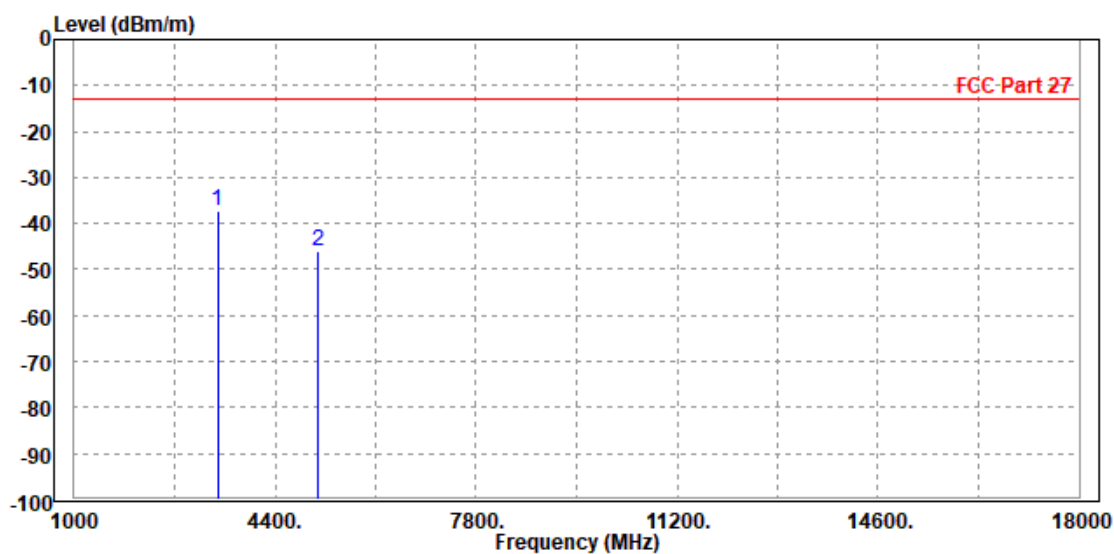
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band IV:

CH 1312

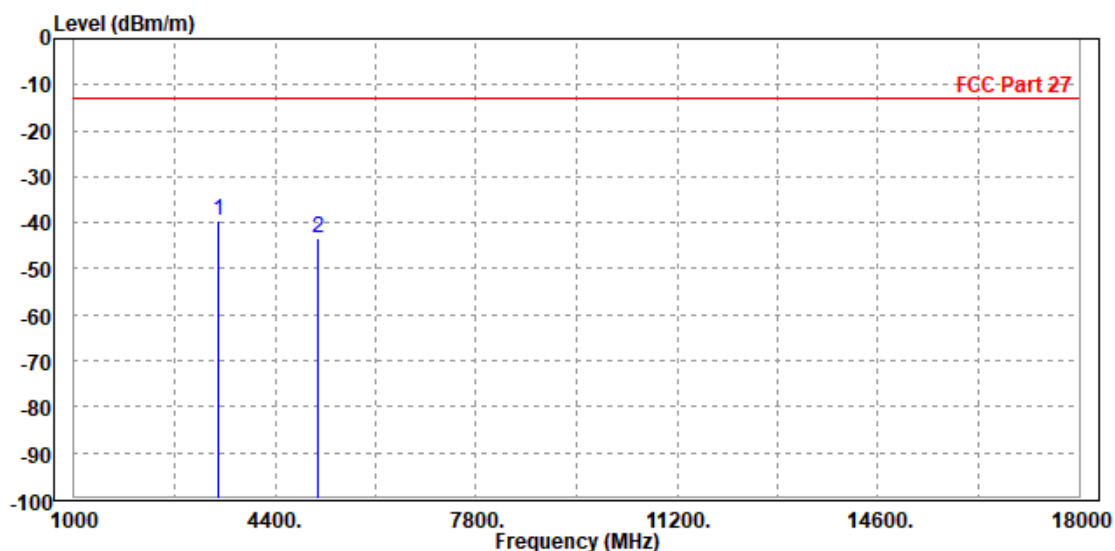
MODE	TX channel 1312	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3424.800	-37.42	-44.64	-13.00	-24.42	7.22	Peak	Horizontal
2		5131.000	-45.86	-55.75	-13.00	-32.86	9.89	Peak	Horizontal



MODE	TX channel 1312	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

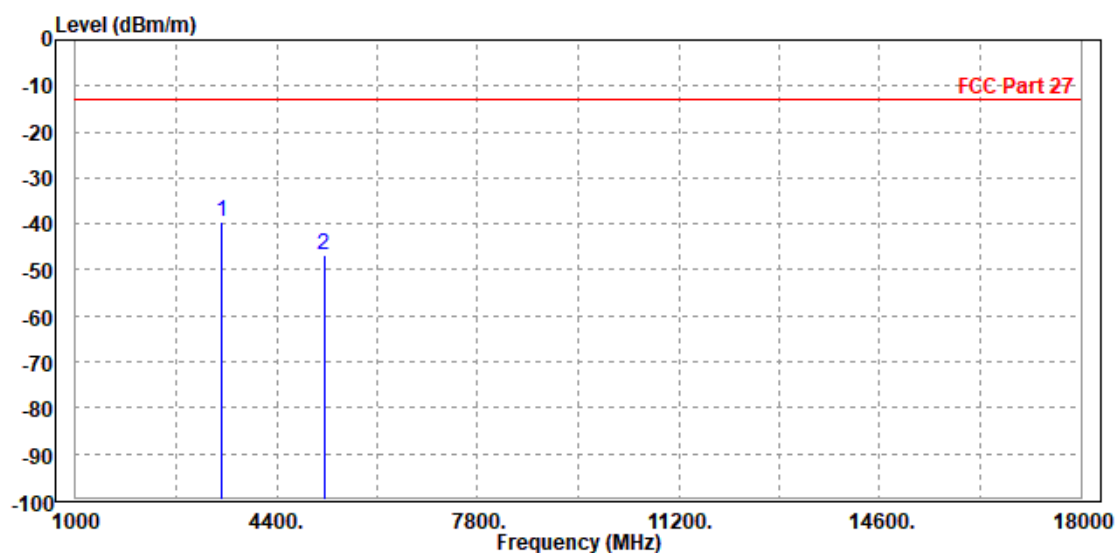
		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3431.000	-39.48	-46.69	-13.00	-26.48	7.21	Peak	Vertical
2		5137.200	-43.36	-53.75	-13.00	-30.36	10.39	Peak	Vertical



CH 1413

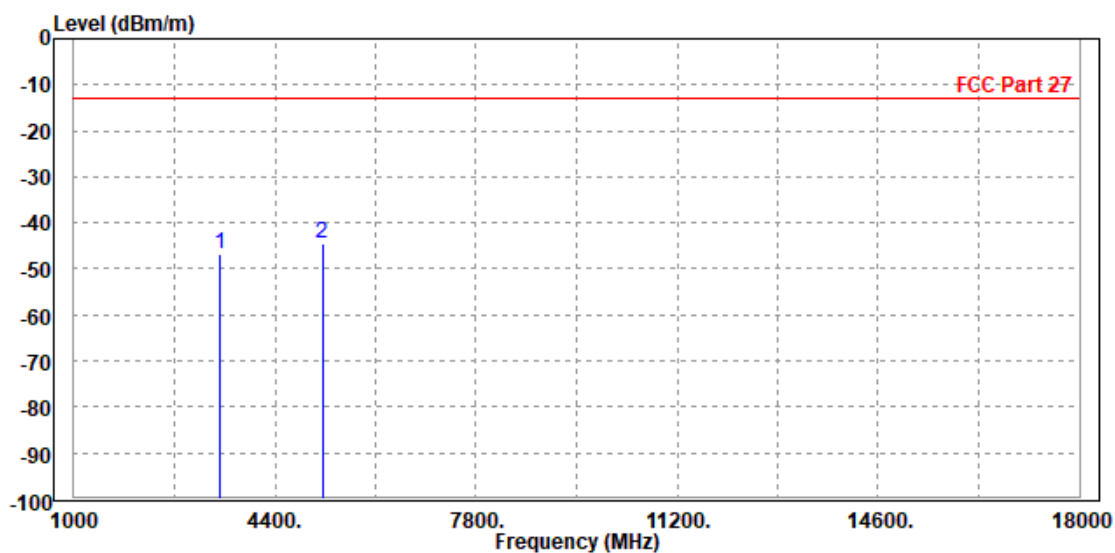
MODE	TX channel 1413	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3465.000	-39.36	-46.63	-13.00	-26.36	7.27	Peak	Horizontal
2	5199.000	-46.65	-56.65	-13.00	-33.65	10.00	Peak	Horizontal



MODE	TX channel 1413	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

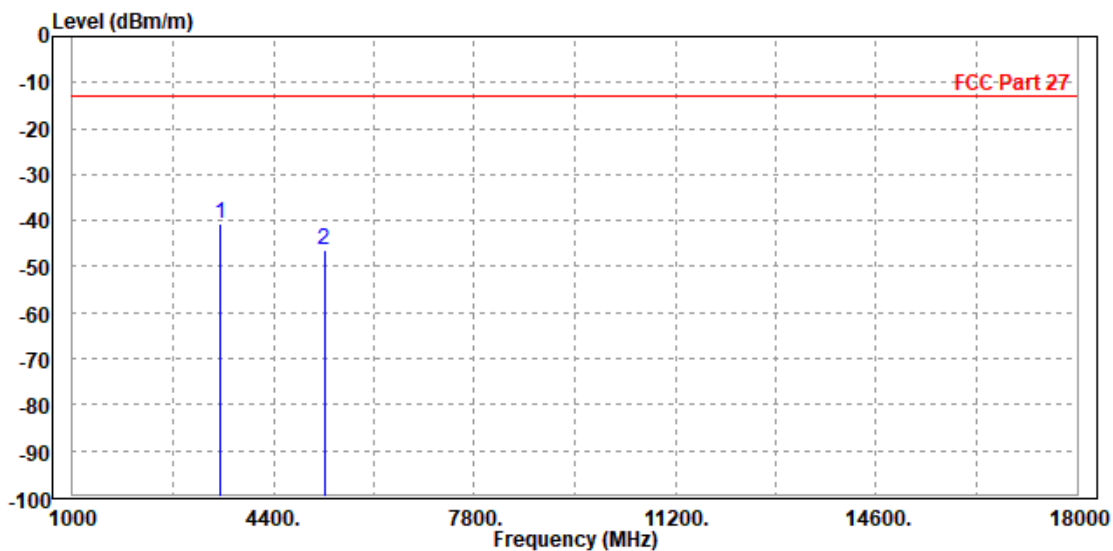
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3465.000	-46.90	-54.16	-13.00	-33.90	7.26	Peak	Vertical
2 PP	5199.000	-44.32	-54.77	-13.00	-31.32	10.45	Peak	Vertical



CH 1513

MODE	TX channel 1513	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3499.000	-40.68	-48.00	-13.00	-27.68	7.32	Peak	Horizontal
2		5257.800	-46.47	-56.56	-13.00	-33.47	10.09	Peak	Horizontal



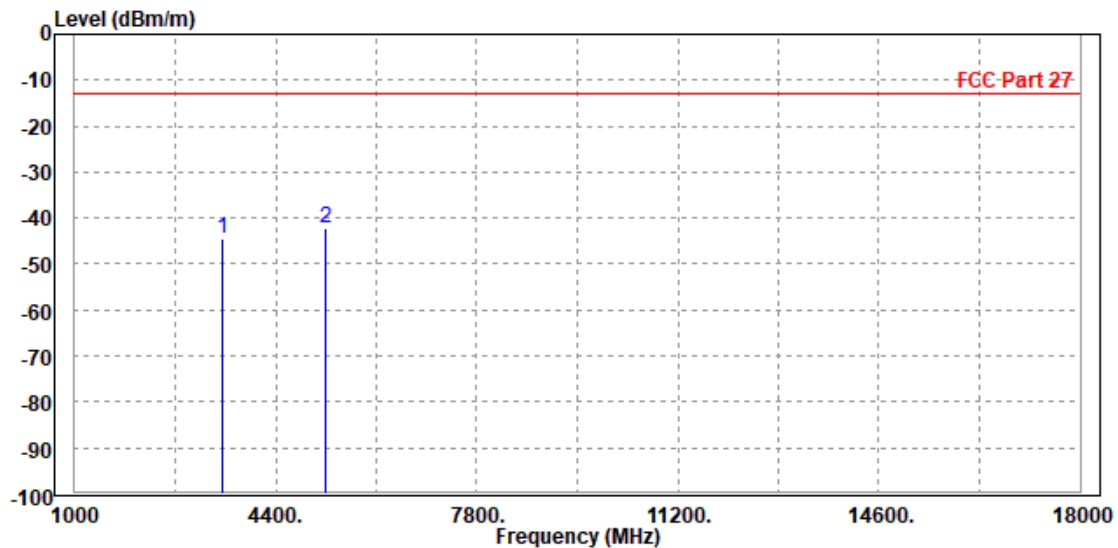


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Test Report No.: W7L-P23050004RF06

MODE	TX channel 1513	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3505.200	-44.38	-51.71	-13.00	-31.38	7.33	Peak	Vertical
2 PP	5250.000	-42.39	-52.89	-13.00	-29.39	10.50	Peak	Vertical

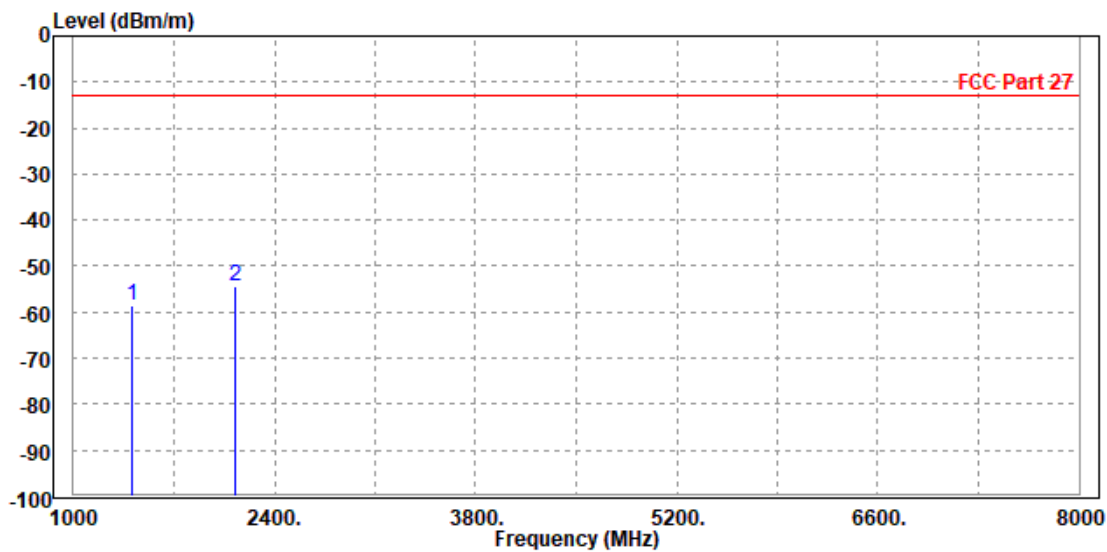


LTE BAND 12

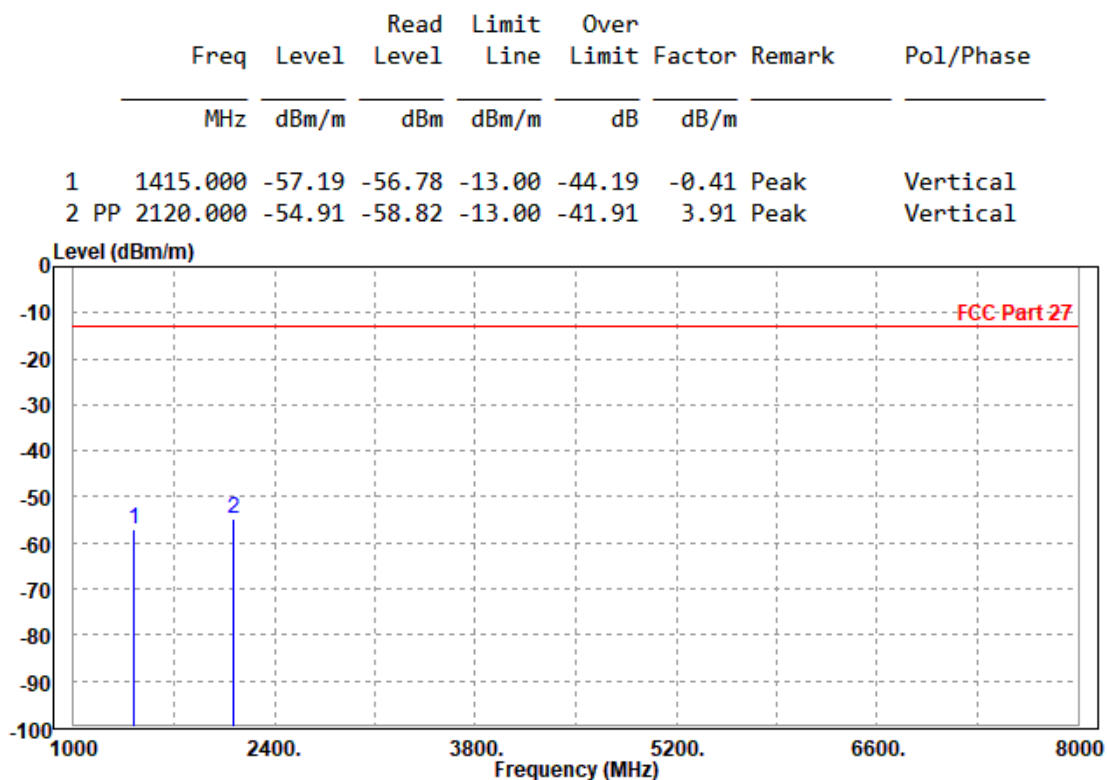
CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1413.000	-58.66	-58.01	-13.00	-45.66	-0.65	Peak	Horizontal
2 PP	2122.500	-54.43	-58.49	-13.00	-41.43	4.06	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			



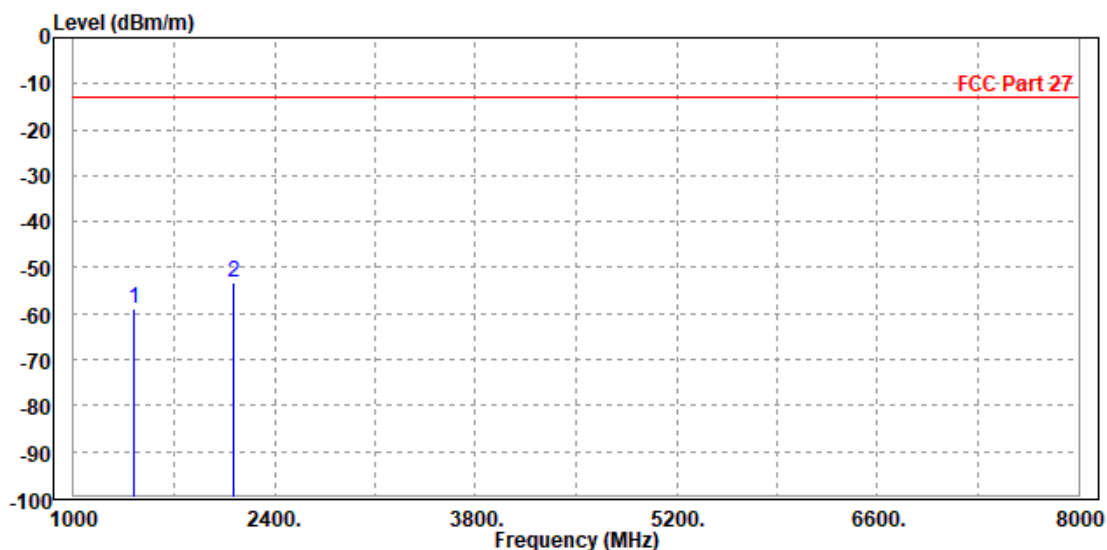


Test Report No.: W7L-P23050004RF06

CHANNEL BANDWIDTH: 3MHz / QPSK

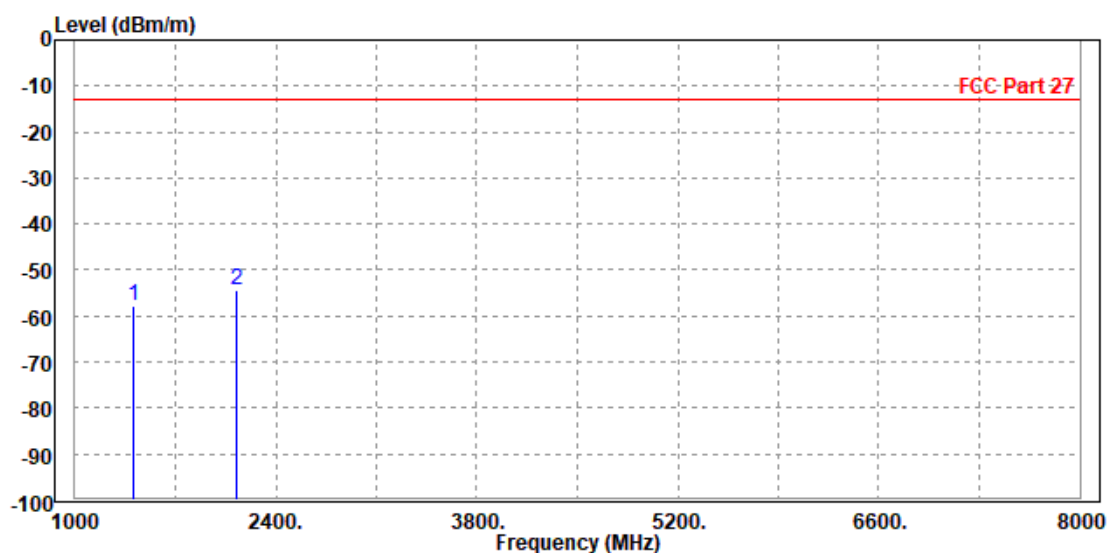
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1415.000	-58.98	-58.33	-13.00	-45.98	-0.65	Peak	Horizontal
2 PP	2120.000	-53.34	-57.40	-13.00	-40.34	4.06	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1413.000	-57.68	-57.26	-13.00	-44.68	-0.42	Peak	Vertical
2 PP	2122.500	-54.27	-58.19	-13.00	-41.27	3.92	Peak	Vertical

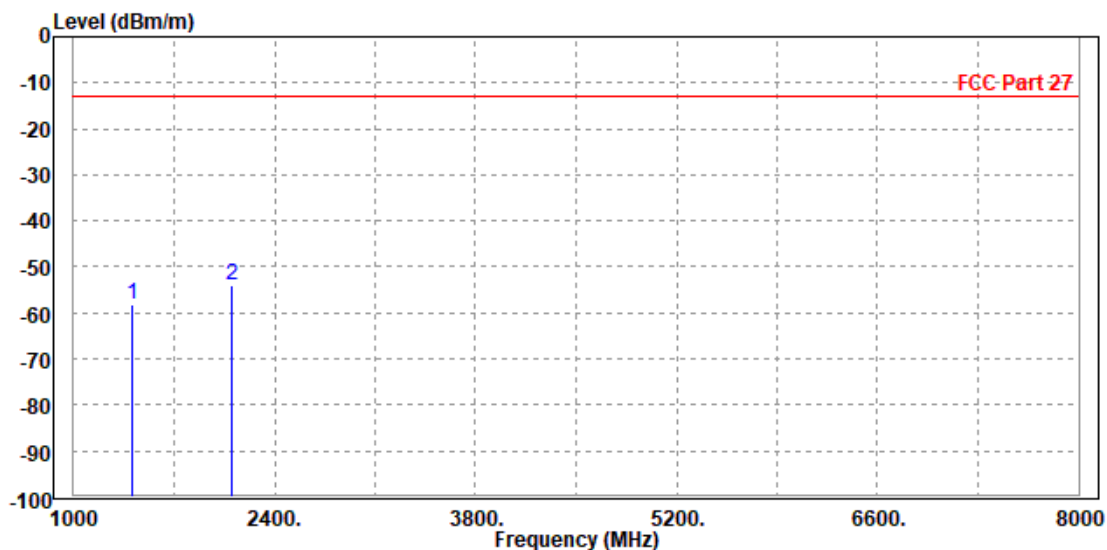


CHANNEL BANDWIDTH: 5MHz / QPSK

CH 23035

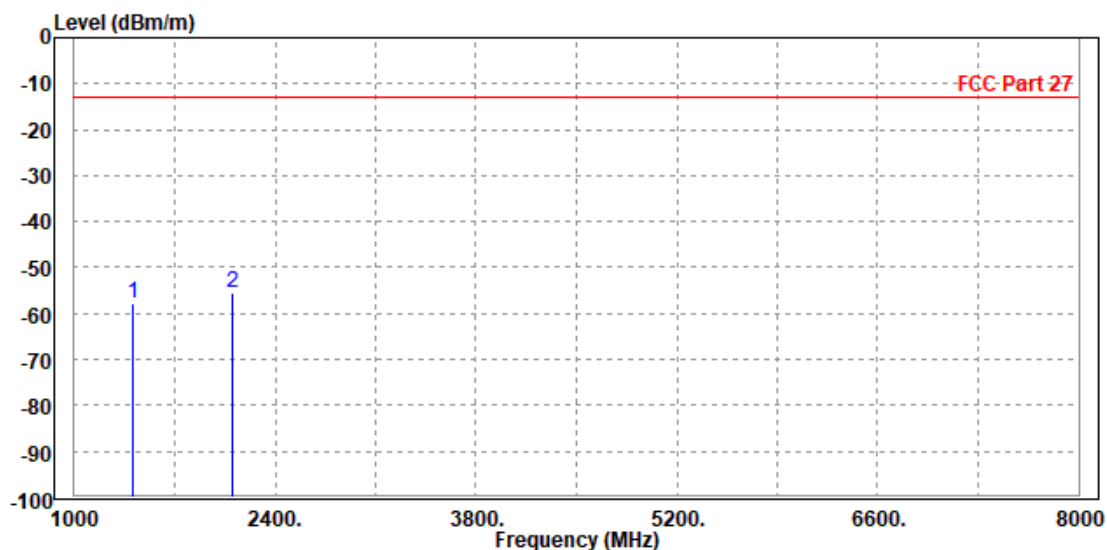
MODE	TX channel 23035	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1403.000	-58.30	-57.62	-13.00	-45.30	-0.68	Peak	Horizontal
2 PP	2106.000	-53.96	-57.96	-13.00	-40.96	4.00	Peak	Horizontal



MODE	TX channel 23035	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

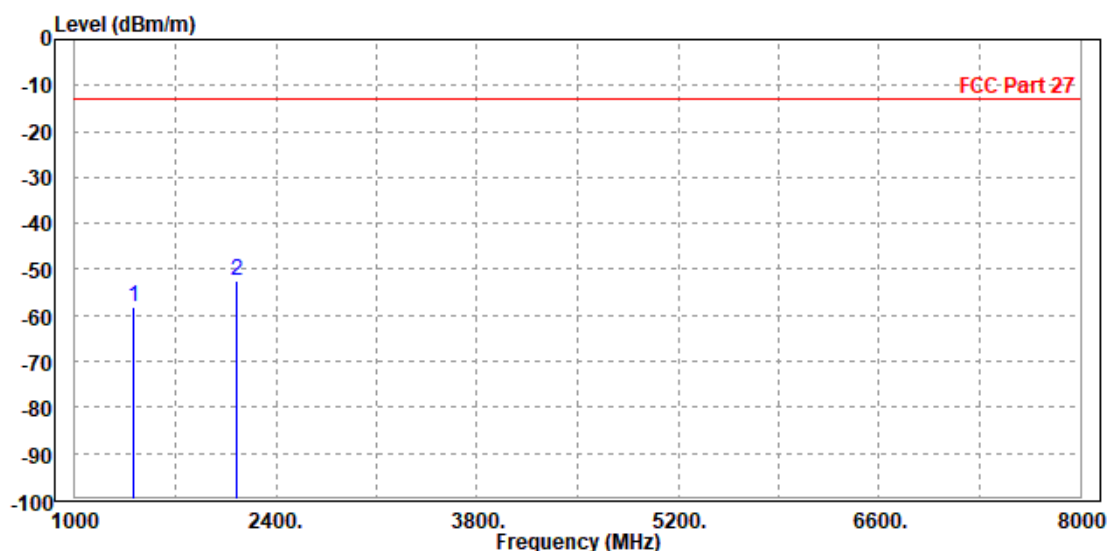
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1406.000	-57.79	-57.34	-13.00	-44.79	-0.45	Peak	Vertical
2 PP	2104.500	-55.37	-59.24	-13.00	-42.37	3.87	Peak	Vertical



CH 23095

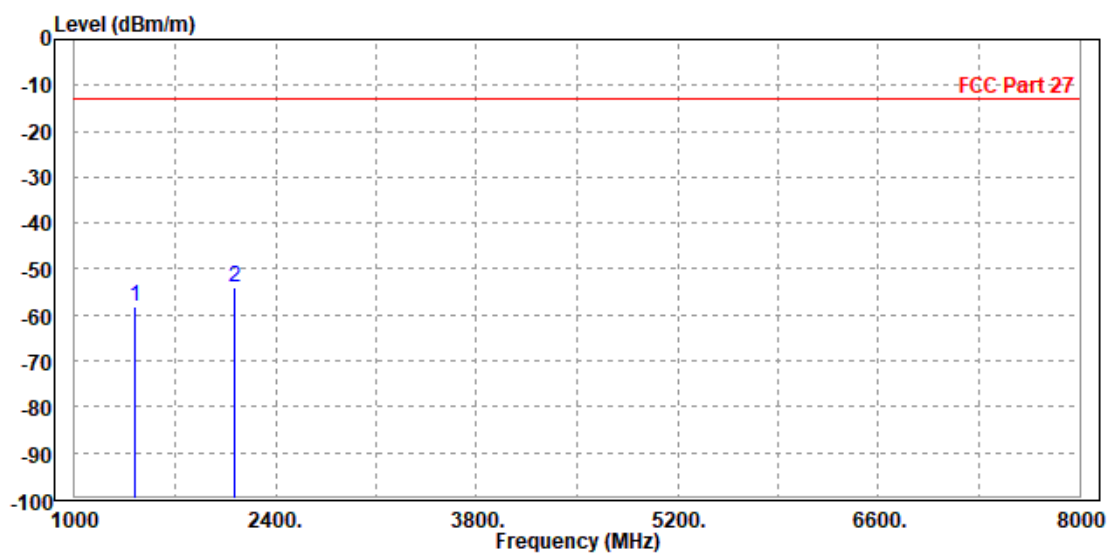
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1413.000	-58.04	-57.39	-13.00	-45.04	-0.65	Peak	Horizontal
2 PP	2122.500	-52.63	-56.69	-13.00	-39.63	4.06	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1415.000	-58.11	-57.70	-13.00	-45.11	-0.41	Peak	Vertical
2 PP	2120.000	-53.93	-57.84	-13.00	-40.93	3.91	Peak	Vertical





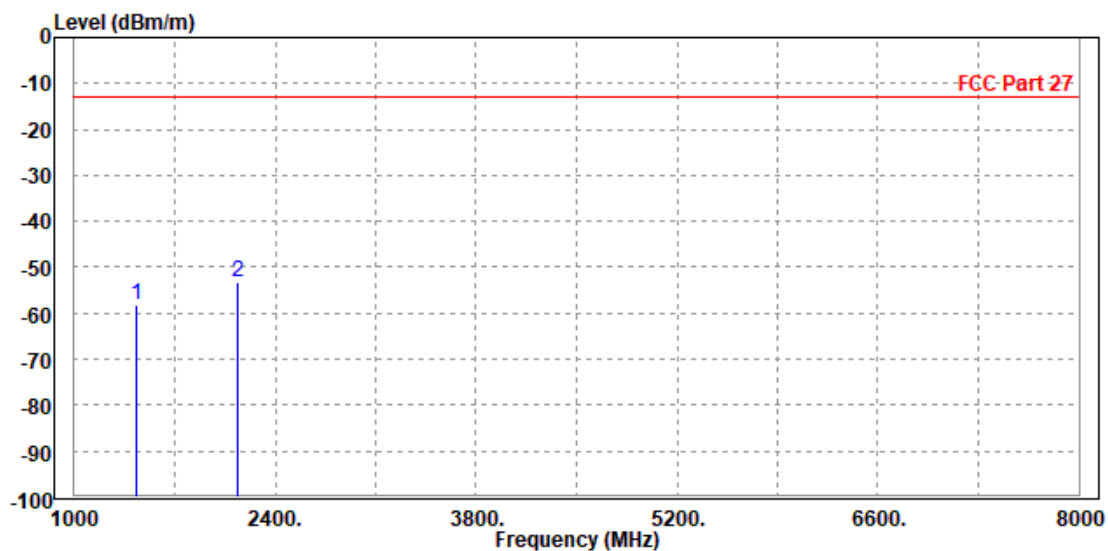
BUREAU
VERITAS

Test Report No.: W7L-P23050004RF06

CH 23155

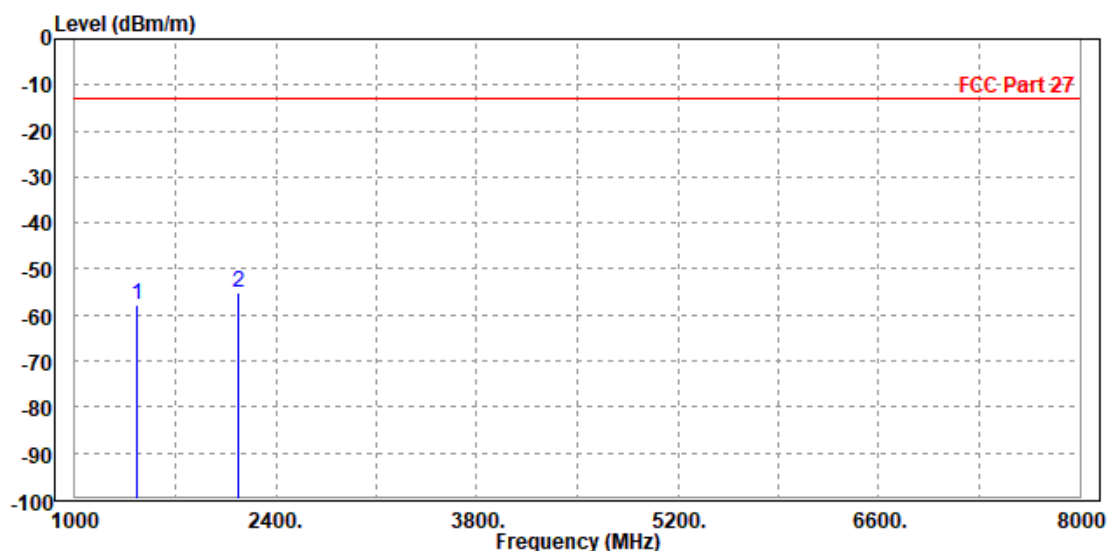
MODE	TX channel 23155	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1427.000	-58.29	-57.68	-13.00	-45.29	-0.61	Peak	Horizontal
2 PP	2140.500	-53.37	-57.50	-13.00	-40.37	4.13	Peak	Horizontal



MODE	TX channel 23155	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

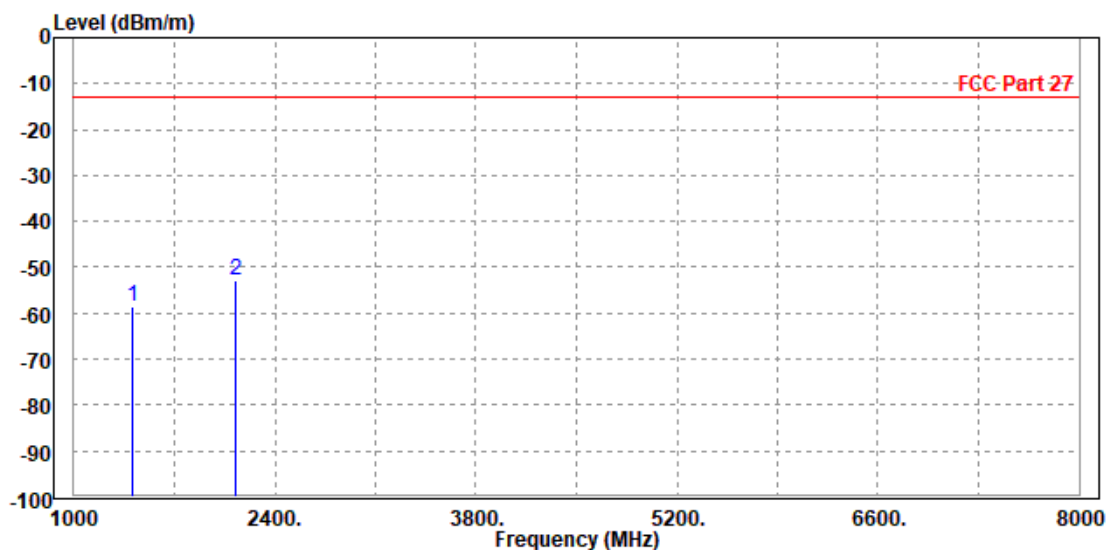
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1427.000	-57.78	-57.43	-13.00	-44.78	-0.35	Peak	Vertical
2 PP	2141.000	-55.02	-58.99	-13.00	-42.02	3.97	Peak	Vertical



CHANNEL BANDWIDTH: 10MHz / QPSK

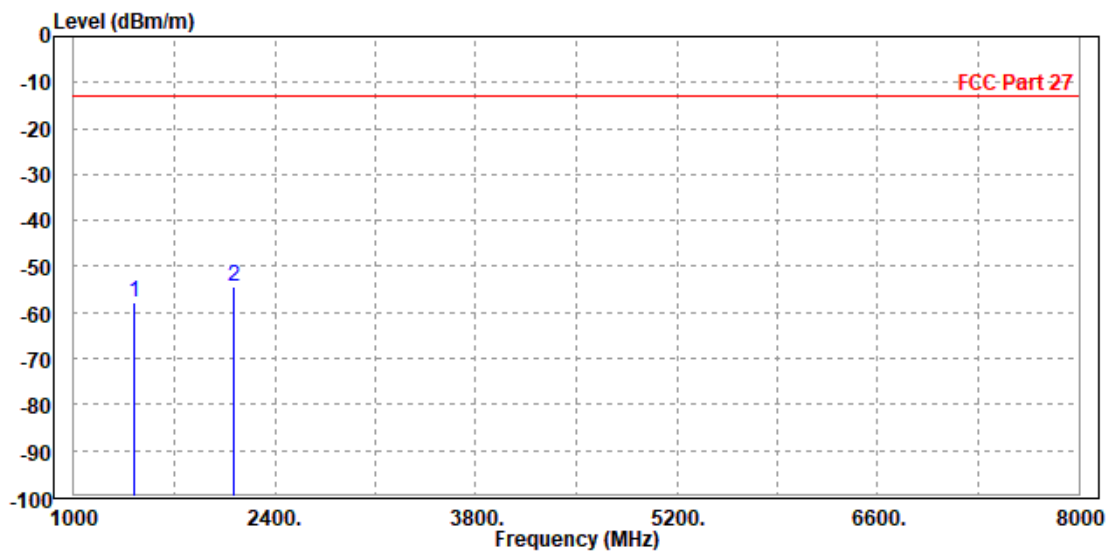
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1413.000	-58.55	-57.90	-13.00	-45.55	-0.65	Peak	Horizontal
2 PP	2122.500	-52.83	-56.89	-13.00	-39.83	4.06	Peak	Horizontal



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1415.000	-57.83	-57.42	-13.00	-44.83	-0.41	Peak	Vertical
2 PP	2120.000	-54.51	-58.42	-13.00	-41.51	3.91	Peak	Vertical



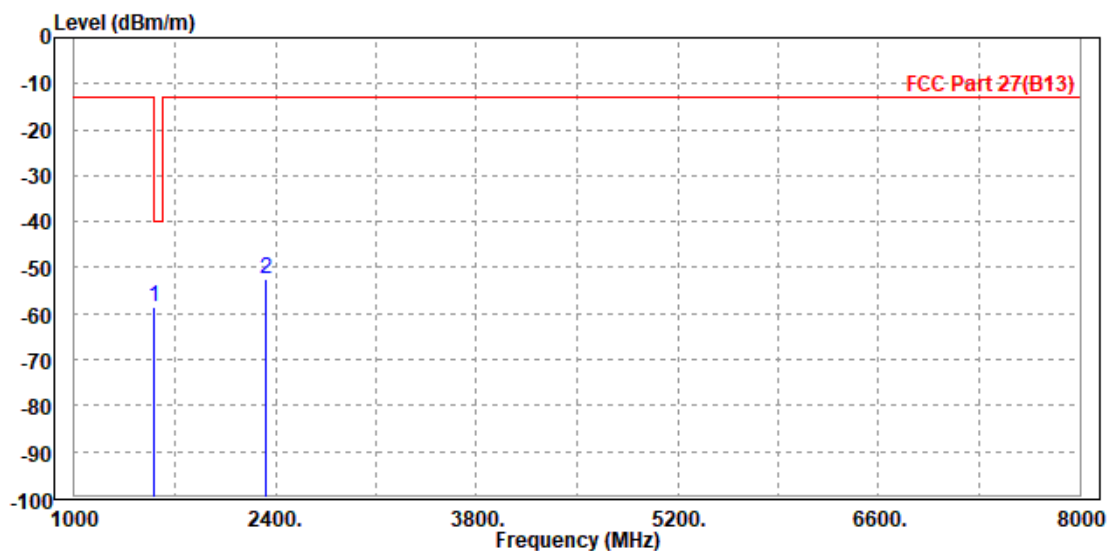
LTE B13

CHANNEL BANDWIDTH: 5MHz / QPSK

CH23205

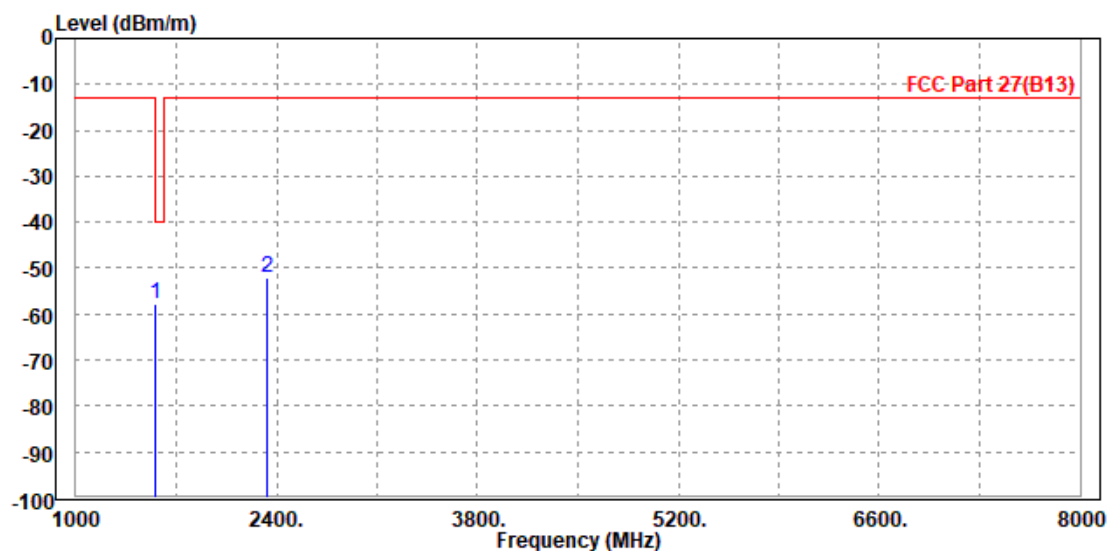
MODE	TX channel 23205	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1559.000	-58.52	-58.57	-40.00	-18.52	0.05	Peak	Horizontal
2	2337.000	-52.45	-57.30	-13.00	-39.45	4.85	Peak	Horizontal



MODE	TX channel 23205	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1560.000	-57.61	-58.01	-40.00	-17.61	0.40	Peak	Vertical
2	2338.500	-51.93	-56.43	-13.00	-38.93	4.50	Peak	Vertical





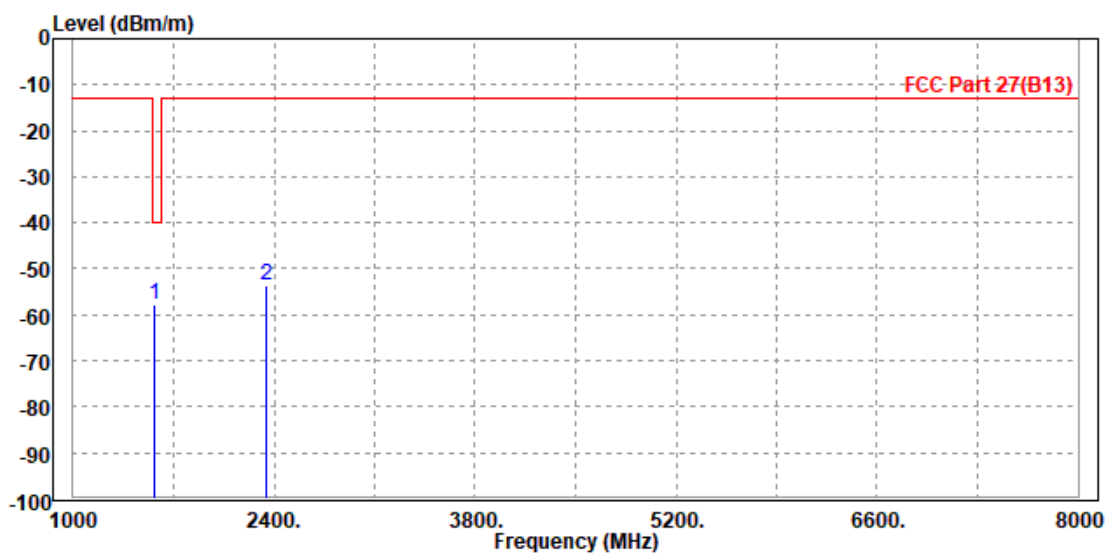
**BUREAU
VERITAS**

Test Report No.: W7L-P23050004RF06

CH20175

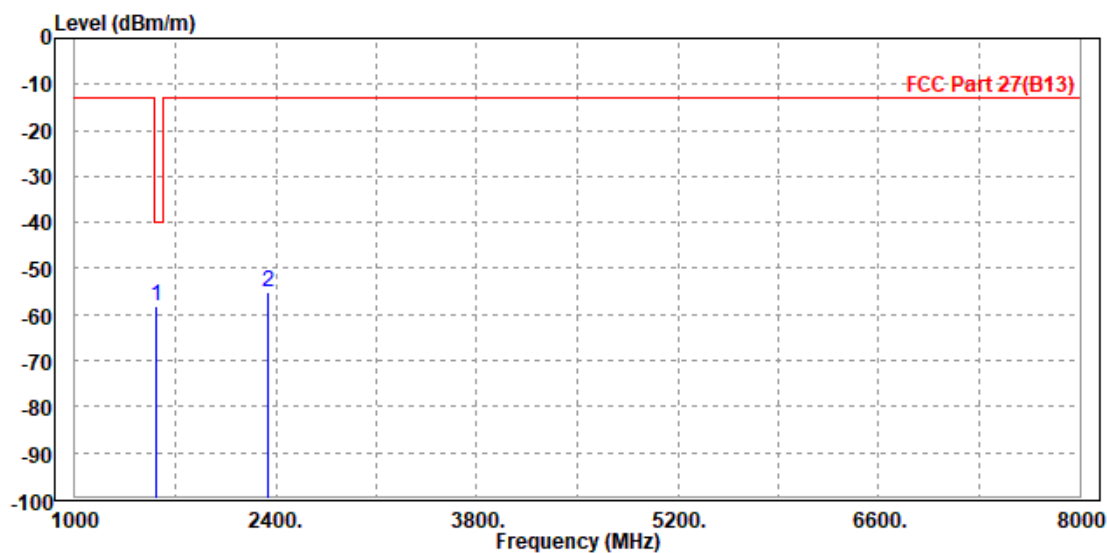
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1567.000	-57.63	-57.75	-40.00	-17.63	0.12	Peak	Horizontal
2		2346.000	-53.67	-58.55	-13.00	-40.67	4.88	Peak	Horizontal



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1564.000	-58.34	-58.77	-40.00	-18.34	0.43	Peak	Vertical
2	2344.000	-55.24	-59.76	-13.00	-42.24	4.52	Peak	Vertical





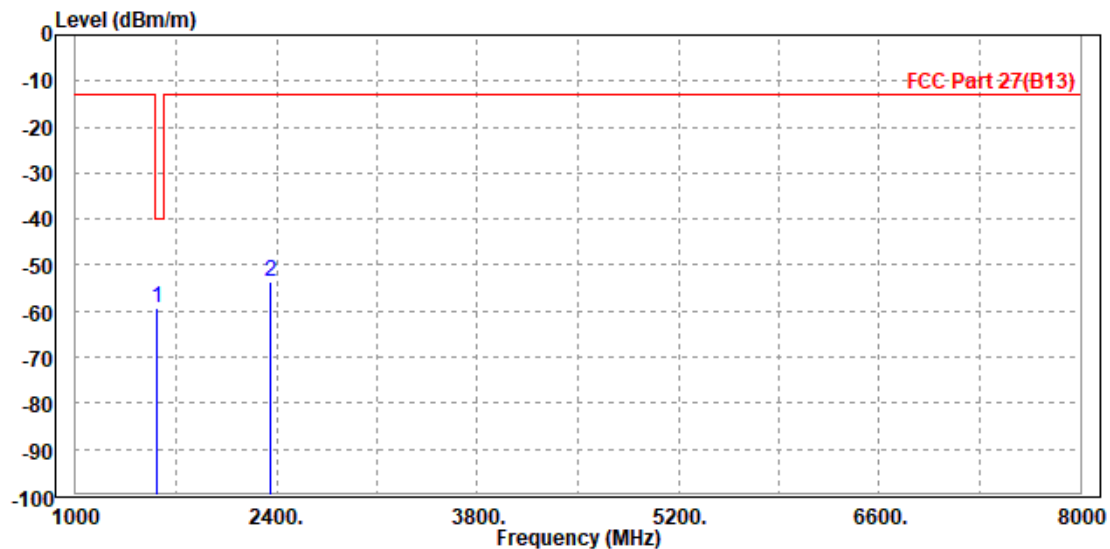
BUREAU
VERITAS

Test Report No.: W7L-P23050004RF06

CH23255

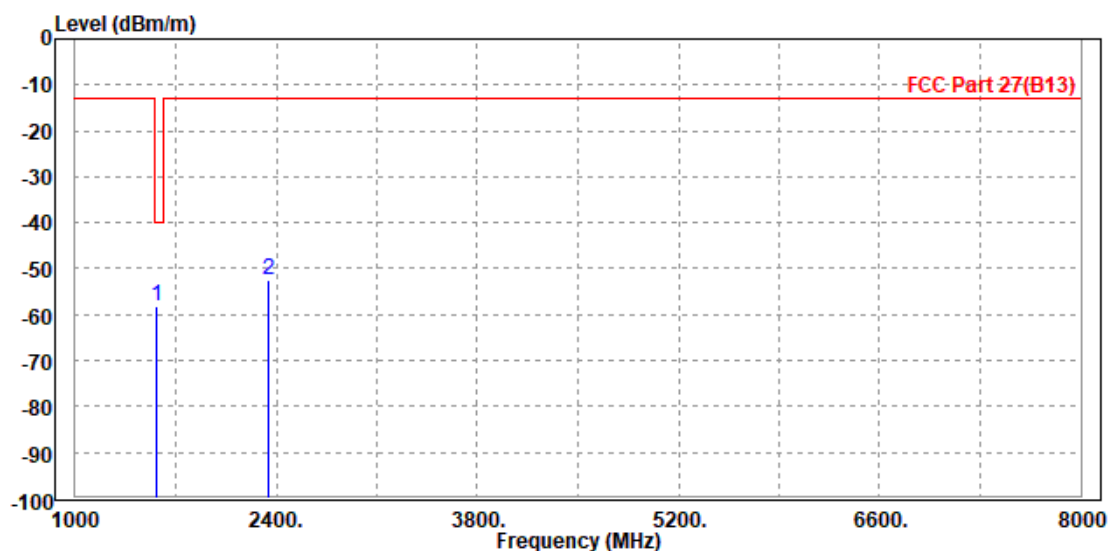
MODE	TX channel 23255	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1567.000	-59.26	-59.38	-40.00	-19.26	0.12	Peak	Horizontal
2		2353.500	-53.75	-58.66	-13.00	-40.75	4.91	Peak	Horizontal



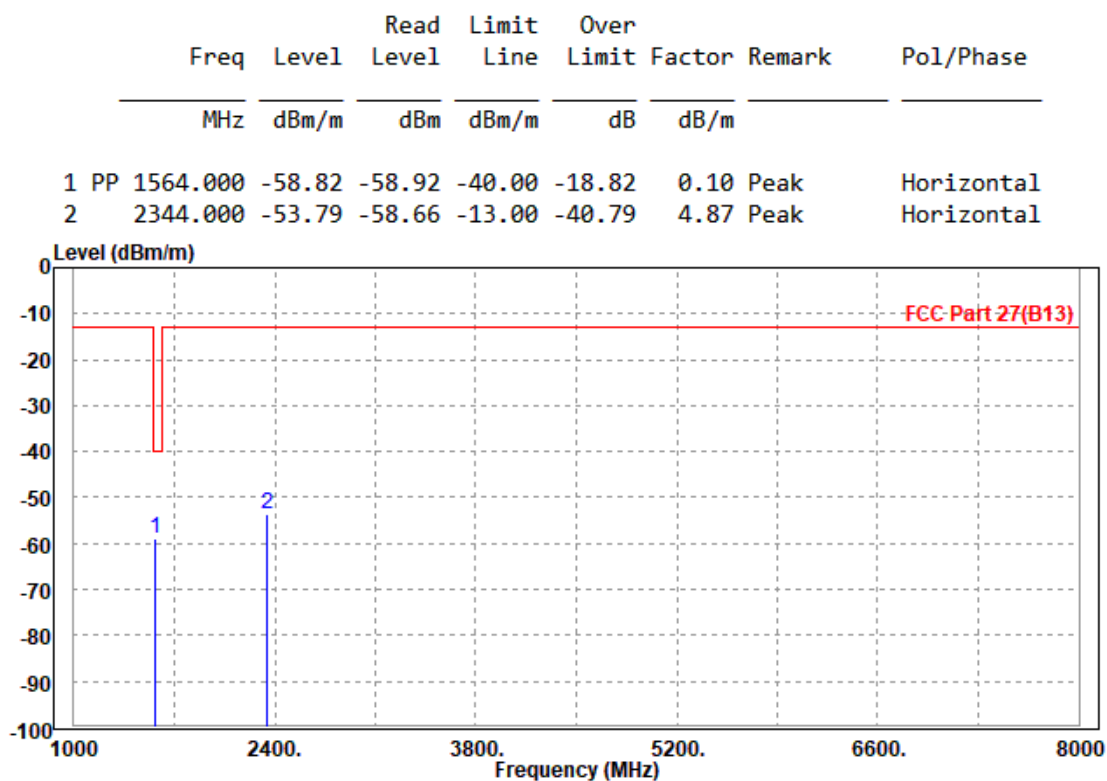
MODE	TX channel 23255	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1569.000	-58.04	-58.50	-40.00	-18.04	0.46	Peak	Vertical
2	2351.000	-52.58	-57.12	-13.00	-39.58	4.54	Peak	Vertical



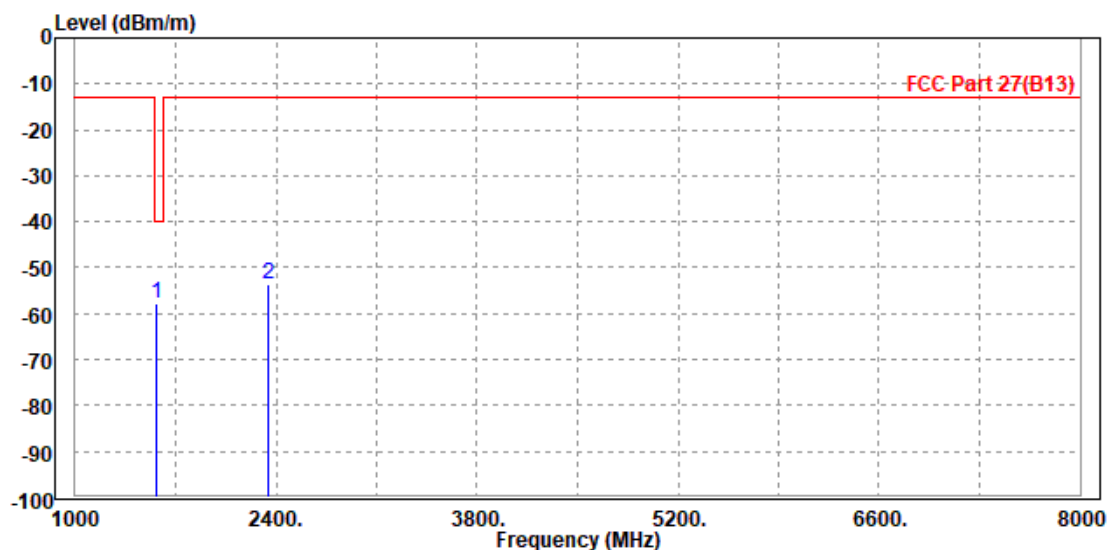
CHANNEL BANDWIDTH: 10MHz /QPSK

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			



MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	1567.000	-57.62	-58.07	-40.00	-17.62	0.45	Peak	Vertical
2		2346.000	-53.57	-58.09	-13.00	-40.57	4.52	Peak	Vertical

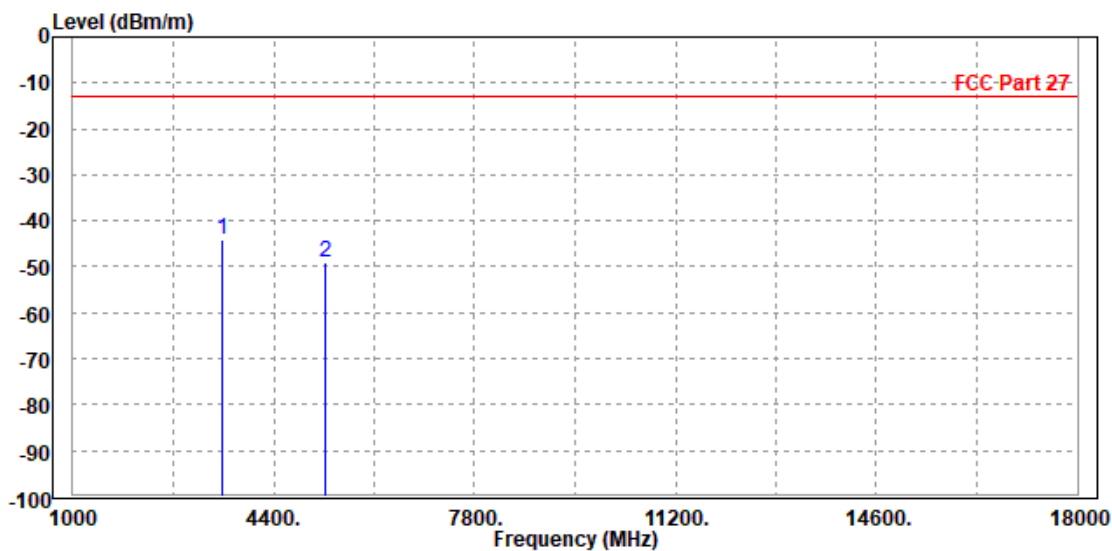


LTE BAND 66

CHANNEL BANDWIDTH: 1.4MHz / QPSK

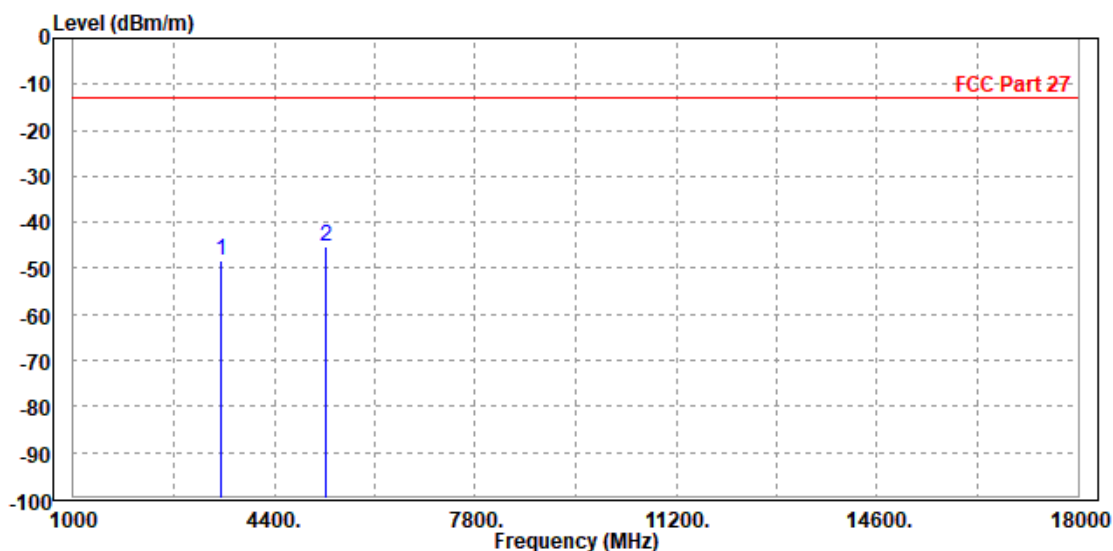
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

			Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3516.000	-44.04	-51.40	-13.00	-31.04	7.36	Peak	Horizontal
2	5265.000	-48.88	-58.99	-13.00	-35.88	10.11	Peak	Horizontal



MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

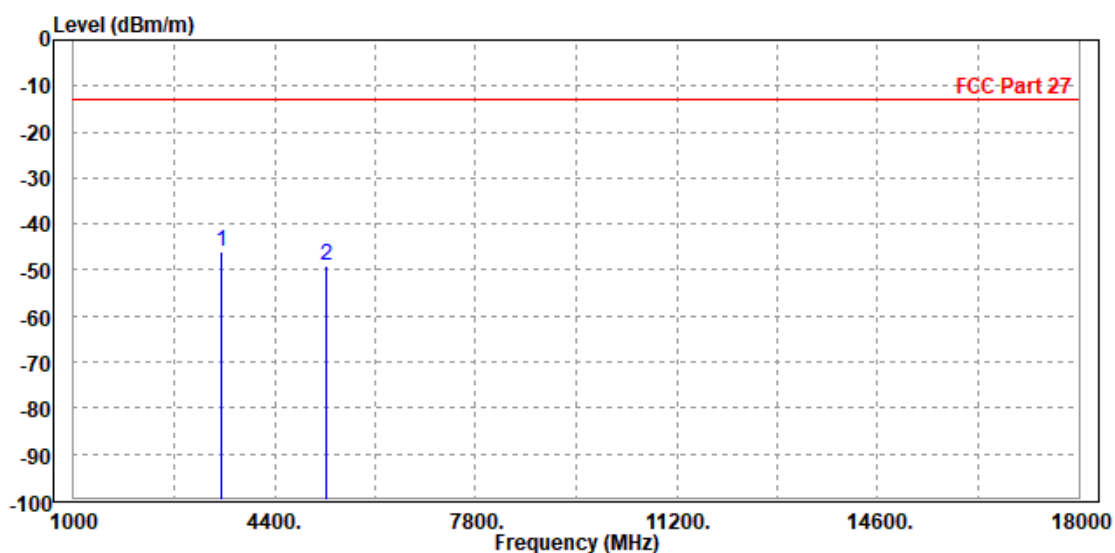
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3510.000	-48.20	-55.53	-13.00	-35.20	7.33	Peak	Vertical
2 PP	5267.000	-45.17	-55.68	-13.00	-32.17	10.51	Peak	Vertical



CHANNEL BANDWIDTH: 3MHz / QPSK

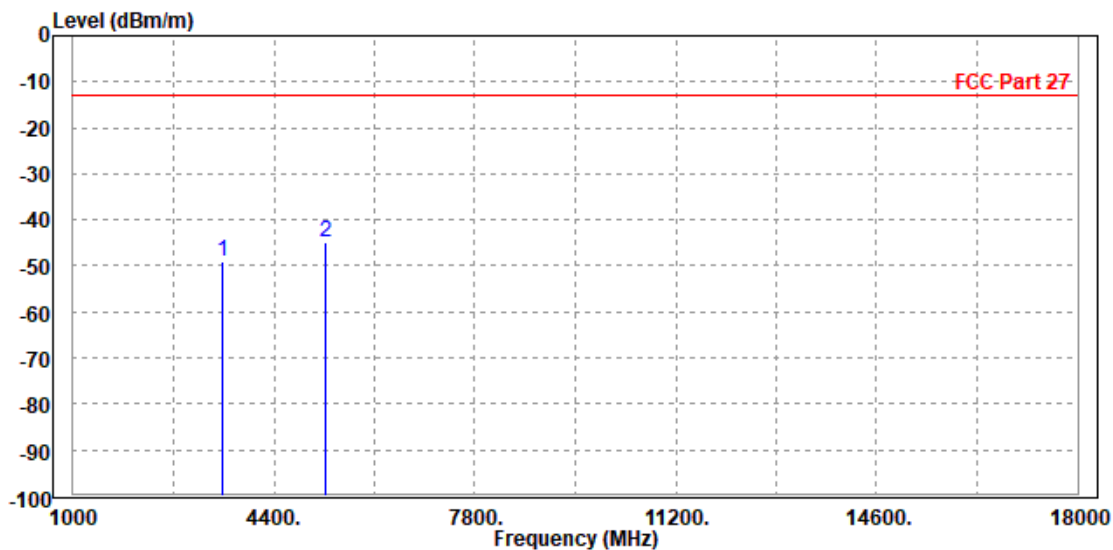
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

			Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase	
MHz	dBm/m	dBm	dBm/m	dB	dB/m			
1 PP 3510.000	-45.99	-53.34	-13.00	-32.99	7.35	Peak	Horizontal	
2 5267.000	-49.04	-59.15	-13.00	-36.04	10.11	Peak	Horizontal	



MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

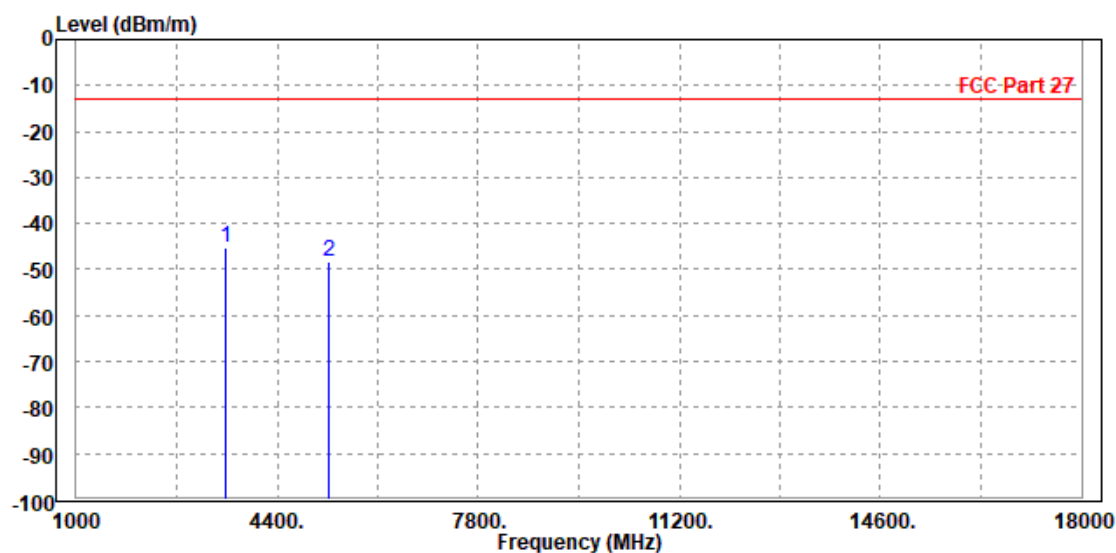
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3516.000	-48.96	-56.30	-13.00	-35.96	7.34	Peak	Vertical
2	PP 5265.000	-44.95	-55.46	-13.00	-31.95	10.51	Peak	Vertical



CHANNEL BANDWIDTH: 5MHz / QPSK

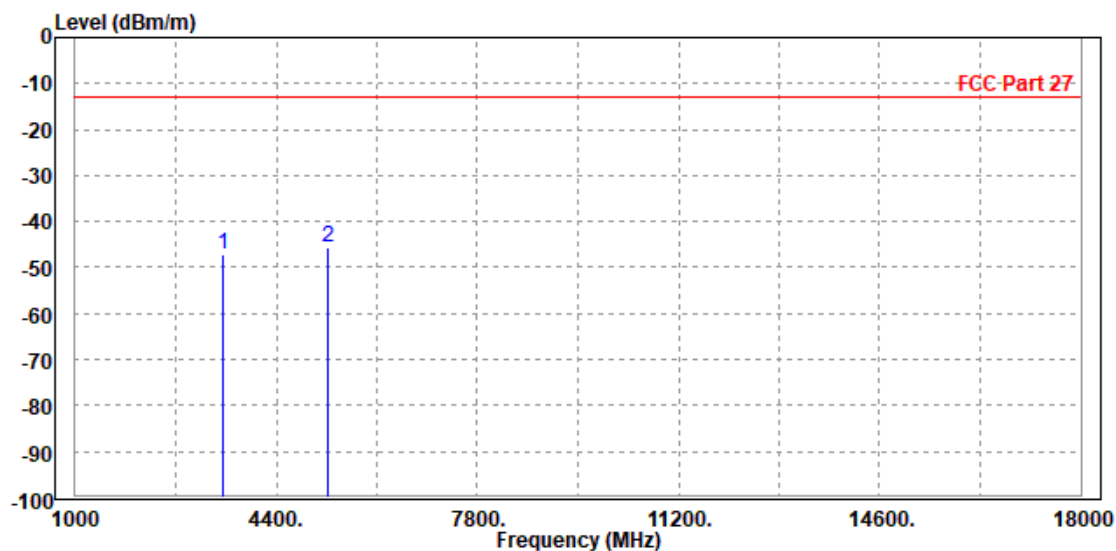
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3516.000	-45.39	-52.75	-13.00	-32.39	7.36	Peak	Horizontal
2	5265.000	-48.38	-58.49	-13.00	-35.38	10.11	Peak	Horizontal



MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

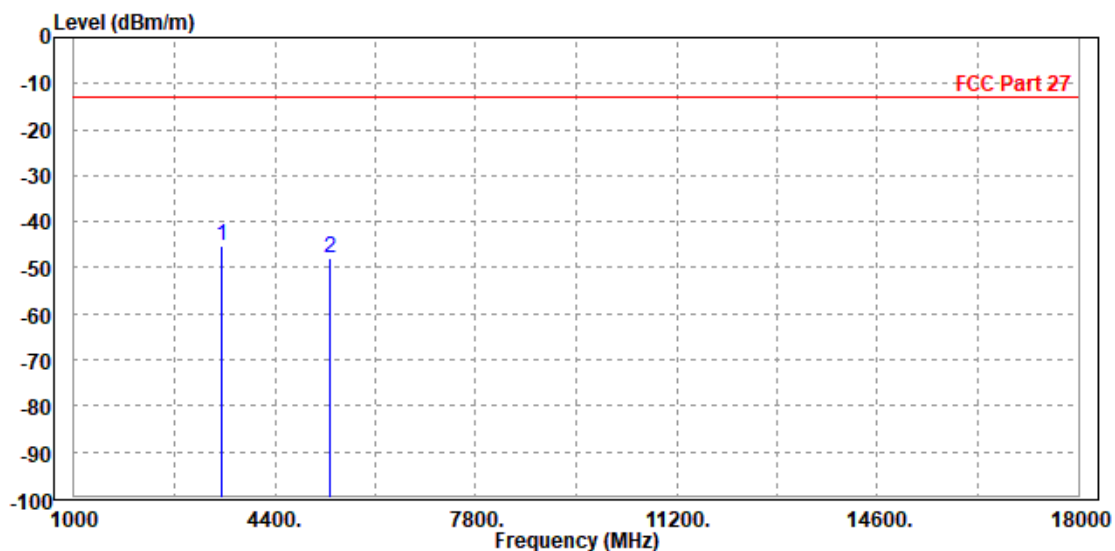
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3510.000	-46.96	-54.29	-13.00	-33.96	7.33	Peak	Vertical
2 PP	5267.000	-45.49	-56.00	-13.00	-32.49	10.51	Peak	Vertical



CHANNEL BANDWIDTH: 10MHz / QPSK

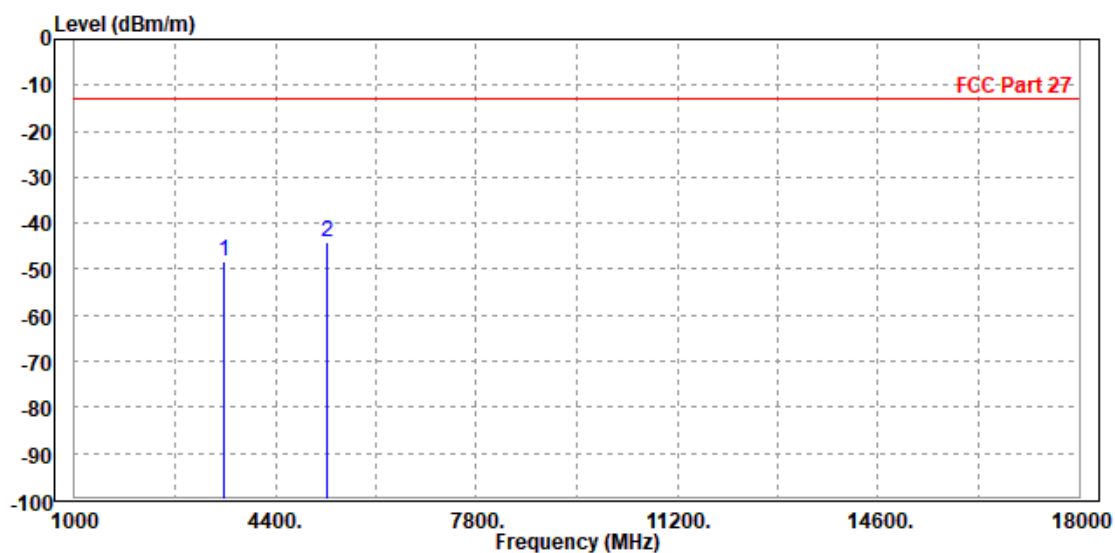
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3510.000	-45.09	-52.44	-13.00	-32.09	7.35	Peak	Horizontal
2		5335.000	-47.90	-58.12	-13.00	-34.90	10.22	Peak	Horizontal



MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

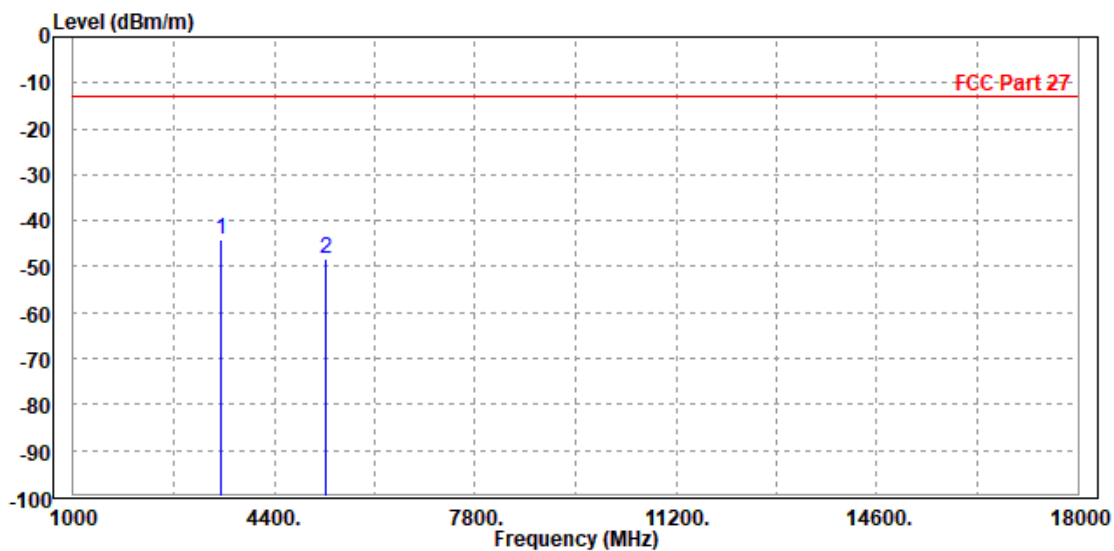
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3516.000	-48.18	-55.52	-13.00	-35.18	7.34	Peak	Vertical
2 PP	5267.000	-43.94	-54.45	-13.00	-30.94	10.51	Peak	Vertical



CHANNEL BANDWIDTH: 15MHz / QPSK

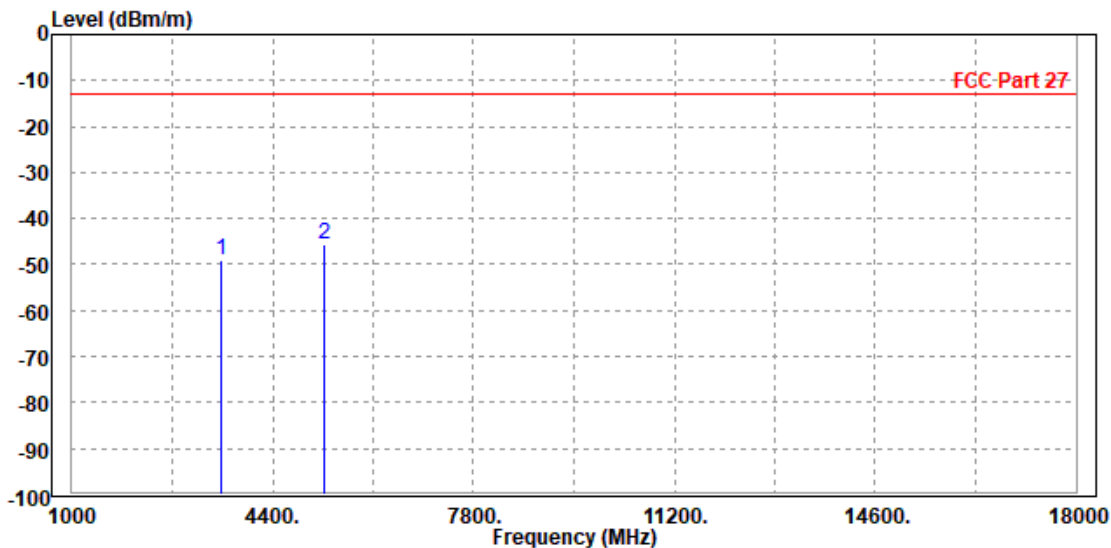
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3510.000	-44.18	-51.53	-13.00	-31.18	7.35	Peak	Horizontal
2		5267.000	-48.14	-58.25	-13.00	-35.14	10.11	Peak	Horizontal



MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3516.000	-49.12	-56.46	-13.00	-36.12	7.34	Peak	Vertical
2	PP 5265.000	-45.72	-56.23	-13.00	-32.72	10.51	Peak	Vertical

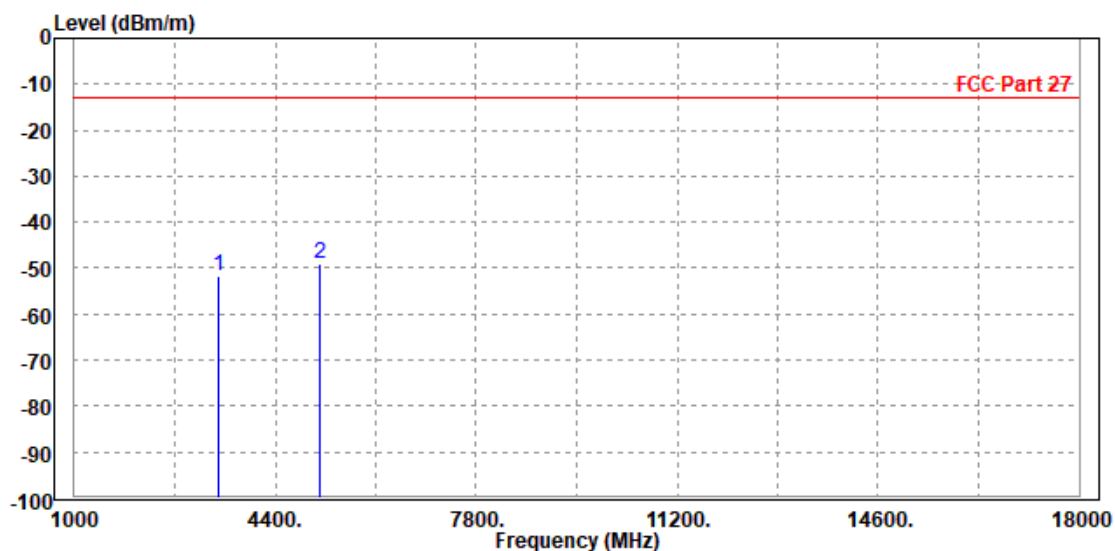


CHANNEL BANDWIDTH: 20MHz / QPSK

CH 132072

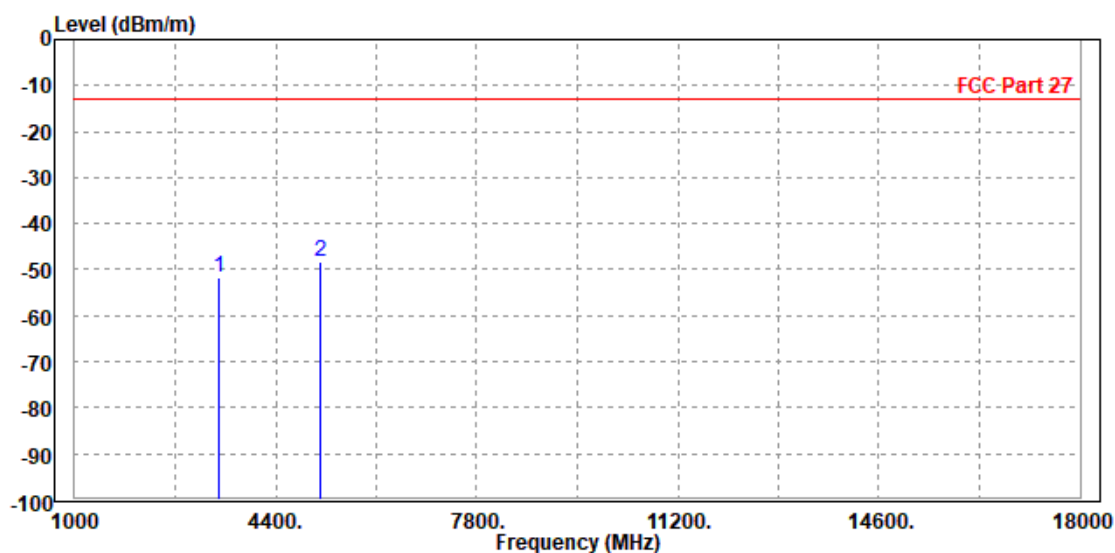
MODE	TX channel 132072	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3440.000	-51.86	-59.10	-13.00	-38.86	7.24	Peak	Horizontal
2 PP	5165.000	-49.10	-59.05	-13.00	-36.10	9.95	Peak	Horizontal



MODE	TX channel 132072	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

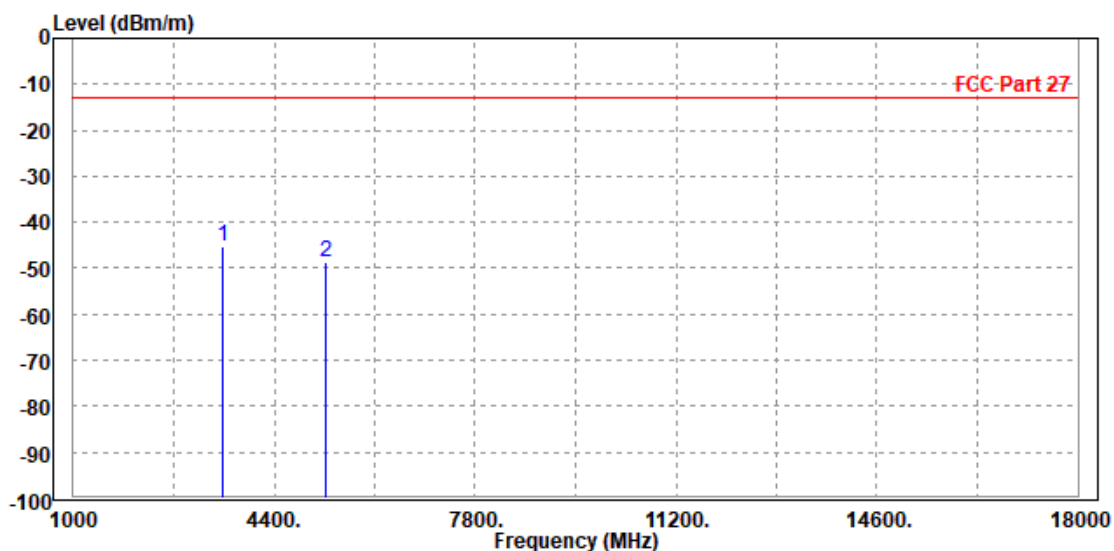
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3448.000	-51.59	-58.83	-13.00	-38.59	7.24	Peak	Vertical
2 PP	5160.000	-48.37	-58.79	-13.00	-35.37	10.42	Peak	Vertical



CH 132322

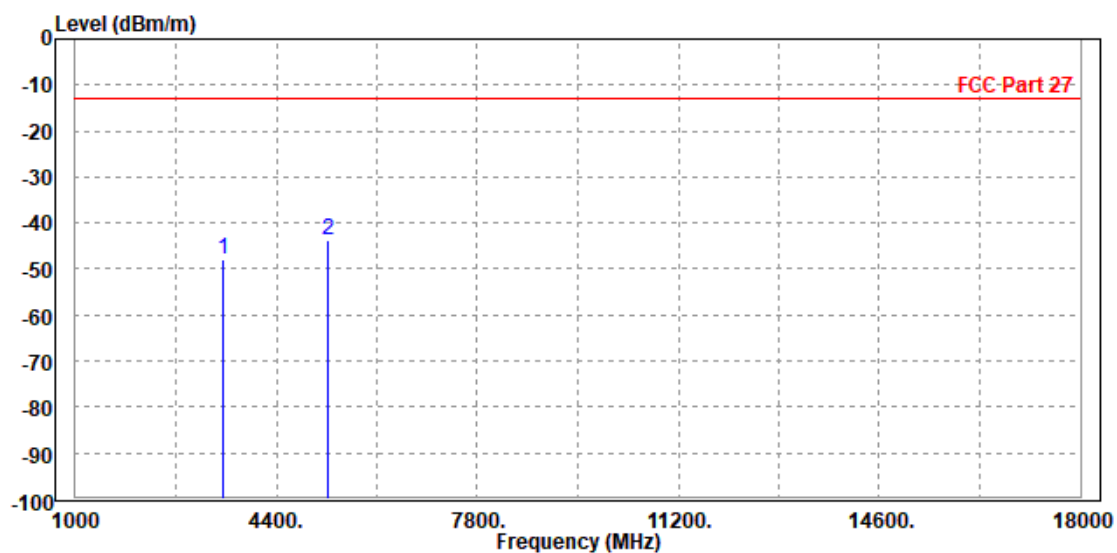
MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3516.000	-45.10	-52.46	-13.00	-32.10	7.36	Peak	Horizontal
2		5265.000	-48.80	-58.91	-13.00	-35.80	10.11	Peak	Horizontal



MODE	TX channel 132322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

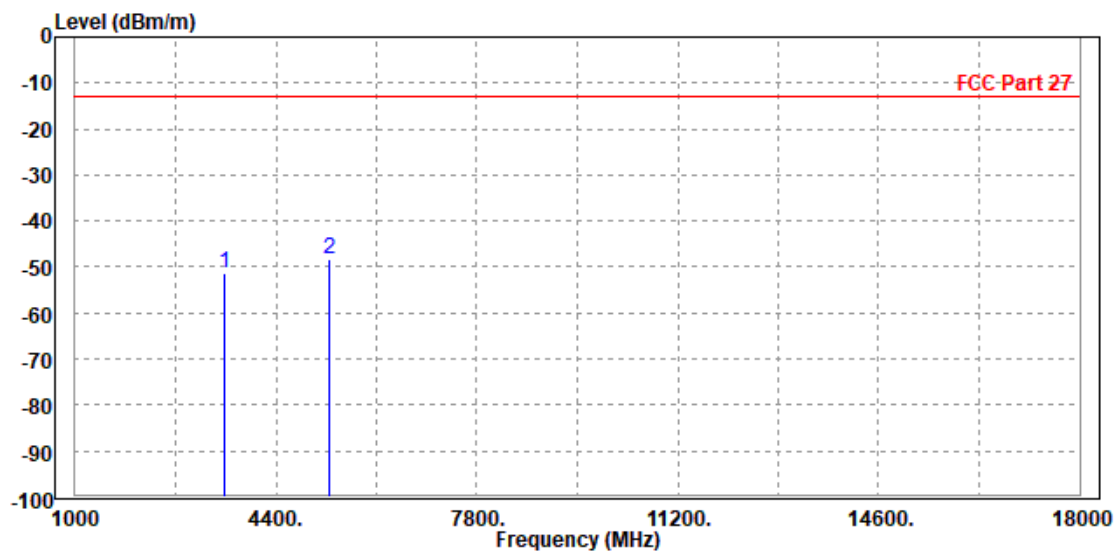
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3510.000	-47.72	-55.05	-13.00	-34.72	7.33	Peak	Vertical
2 PP	5267.000	-43.91	-54.42	-13.00	-30.91	10.51	Peak	Vertical



CH 132572

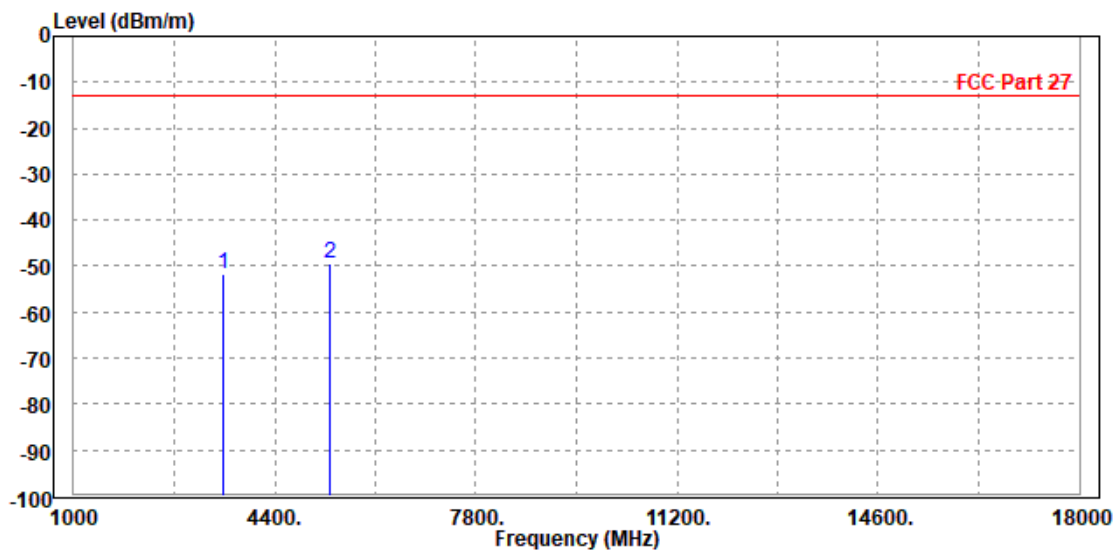
MODE	TX channel 132572	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3533.000	-51.27	-58.68	-13.00	-38.27	7.41	Peak	Horizontal
2 PP	5310.000	-48.45	-58.63	-13.00	-35.45	10.18	Peak	Horizontal



MODE	TX channel 132572	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3540.000	-51.65	-59.03	-13.00	-38.65	7.38	Peak	Vertical
2 PP	5318.000	-49.30	-59.86	-13.00	-36.30	10.56	Peak	Vertical

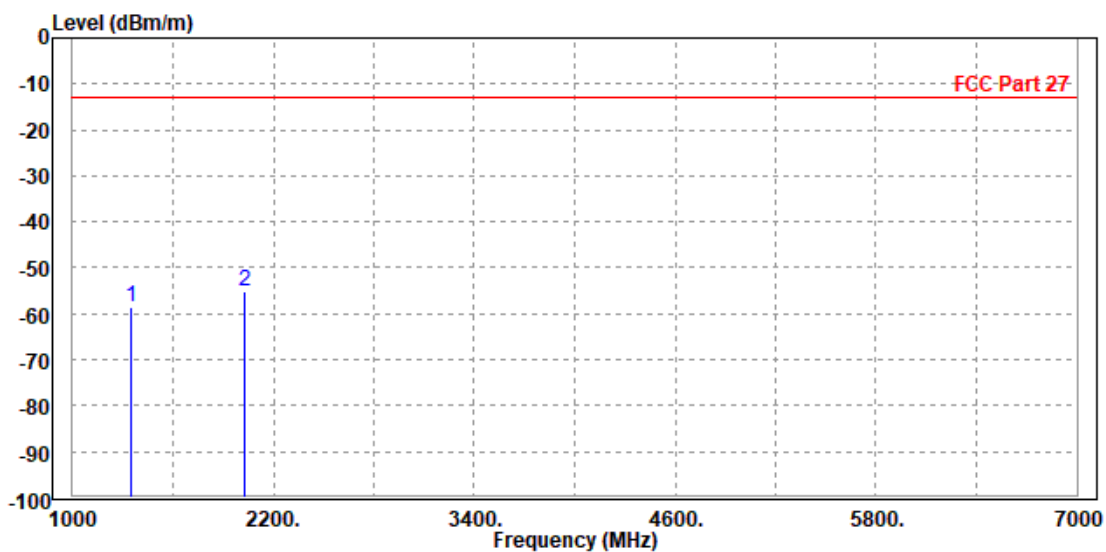


LTE Band 71

CHANNEL BANDWIDTH: 5MHz / QPSK

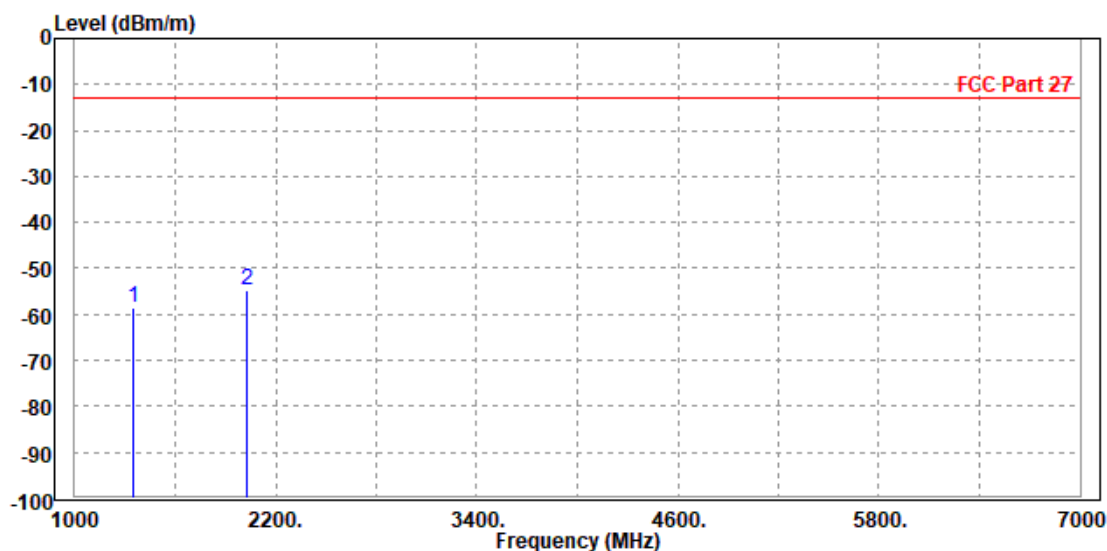
MODE	TX channel 133247	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1351.000	-58.71	-57.89	-13.00	-45.71	-0.82	Peak	Horizontal
2 PP	2026.000	-55.16	-58.87	-13.00	-42.16	3.71	Peak	Horizontal



MODE	TX channel 133247	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1348.000	-58.73	-58.03	-13.00	-45.73	-0.70	Peak	Vertical
2 PP	2026.500	-54.73	-58.39	-13.00	-41.73	3.66	Peak	Vertical





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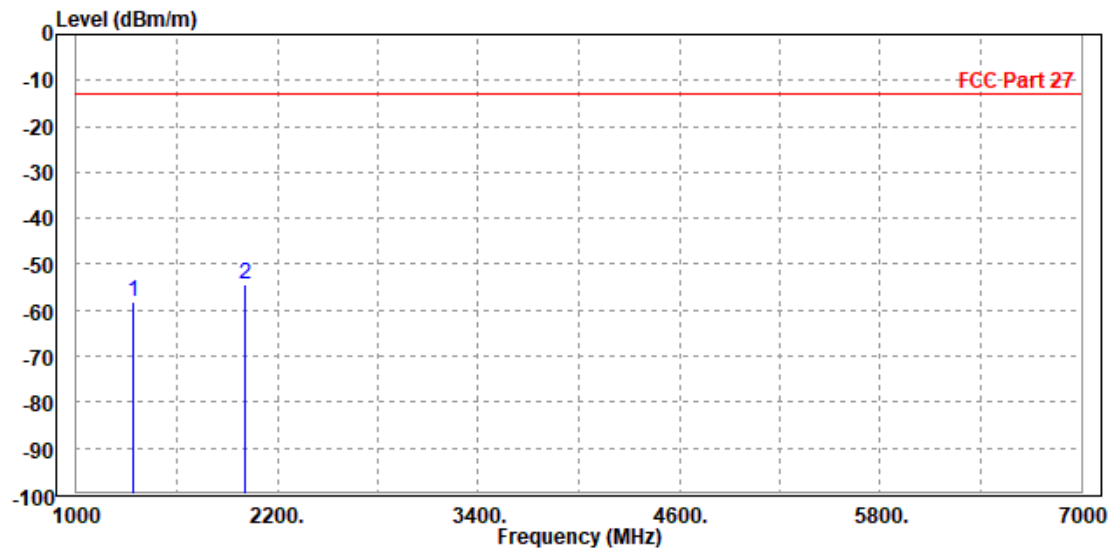
Test Report No.: W7L-P23050004RF06

CHANNEL BANDWIDTH: 10MHz / QPSK

CH133172

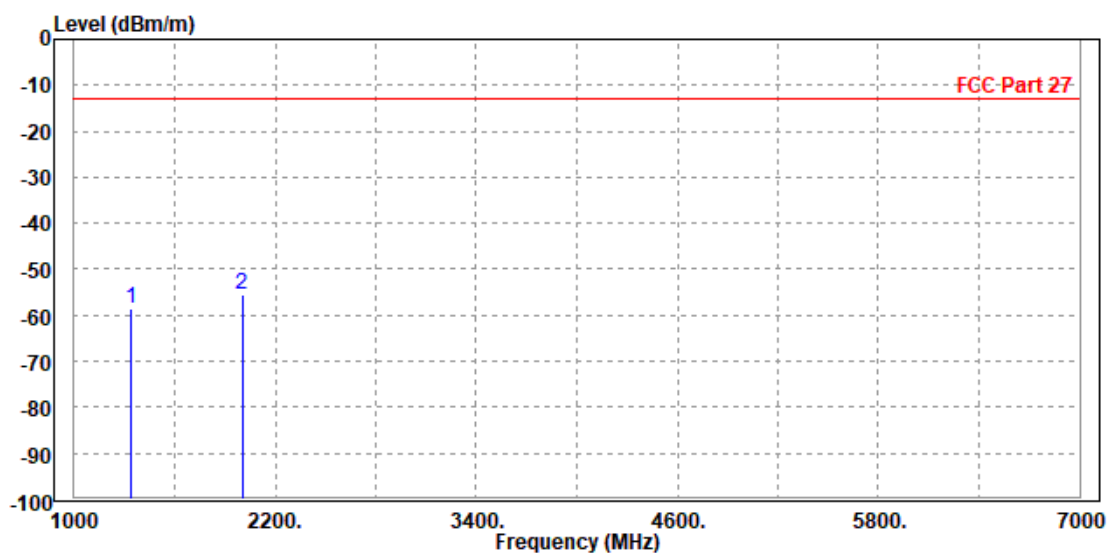
MODE	TX channel 133172	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1336.000	-58.13	-57.28	-13.00	-45.13	-0.85	Peak	Horizontal
2 PP	2004.000	-54.42	-58.05	-13.00	-41.42	3.63	Peak	Horizontal



MODE	TX channel 133172	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

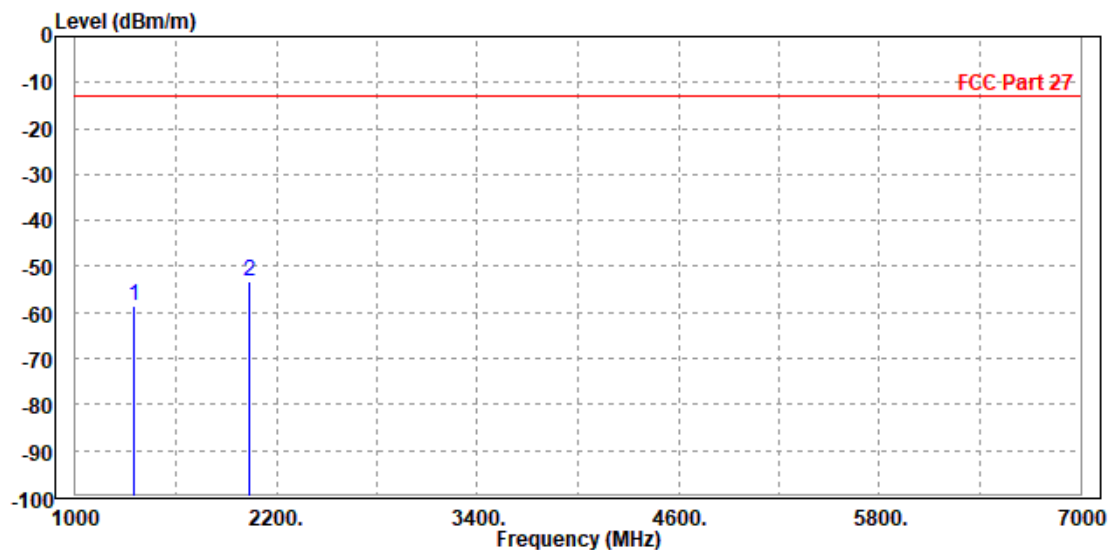
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1336.000	-58.42	-57.67	-13.00	-45.42	-0.75	Peak	Vertical
2 PP	2002.000	-55.62	-59.21	-13.00	-42.62	3.59	Peak	Vertical



CH133272

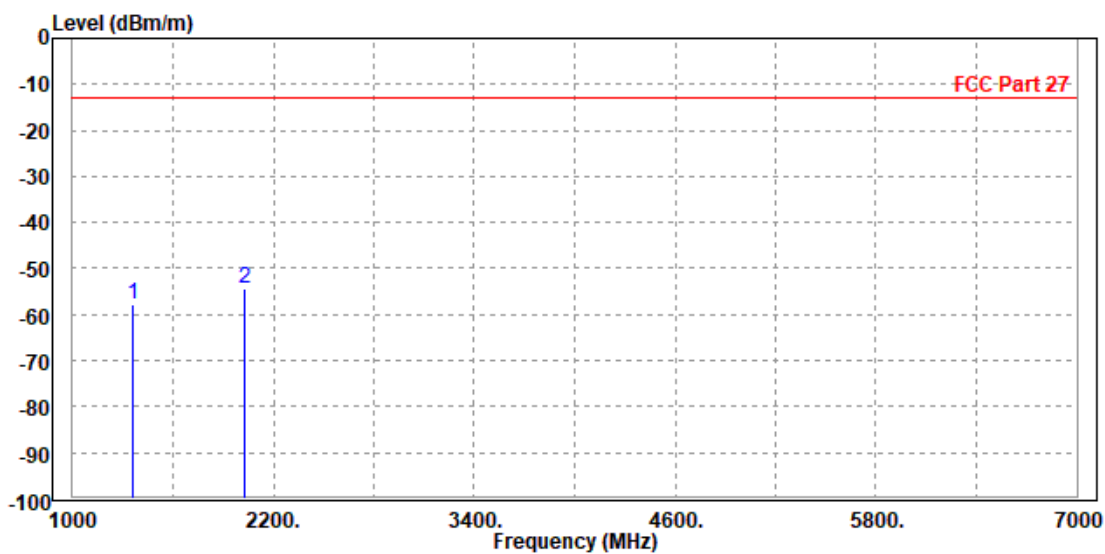
MODE	TX channel 133272	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1354.000	-58.55	-57.74	-13.00	-45.55	-0.81	Peak	Horizontal
2 PP	2034.000	-53.41	-57.15	-13.00	-40.41	3.74	Peak	Horizontal



MODE	TX channel 133272	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

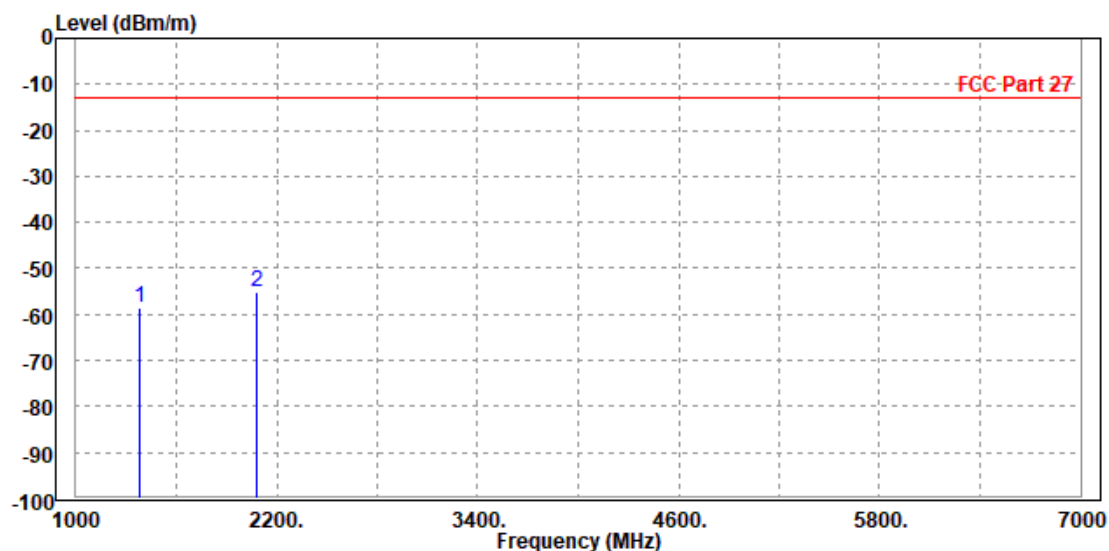
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1356.000	-57.69	-57.03	-13.00	-44.69	-0.66	Peak	Vertical
2 PP	2032.000	-54.48	-58.15	-13.00	-41.48	3.67	Peak	Vertical



CH133422

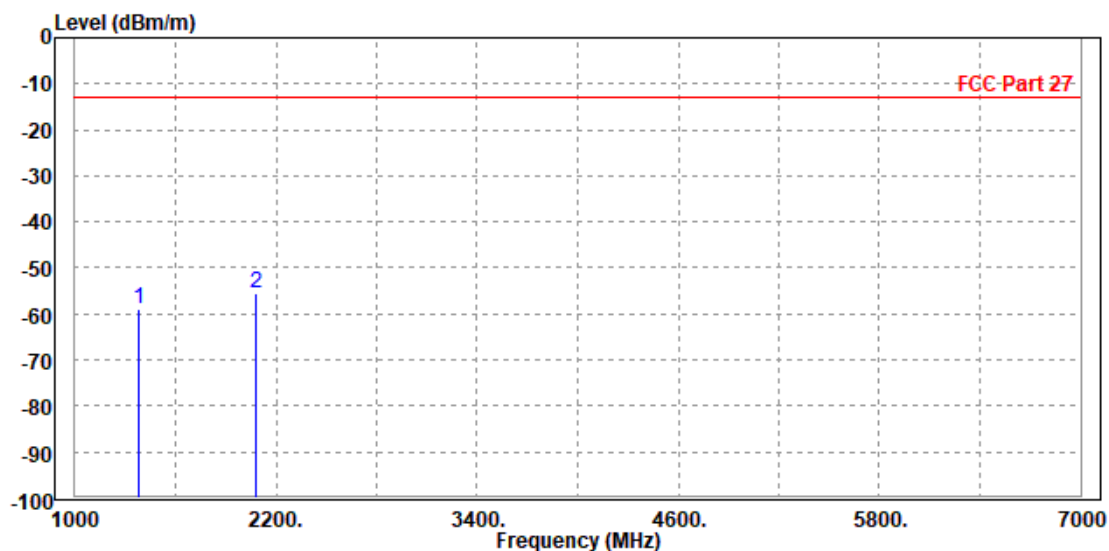
CH133422			
MODE	TX channel 133422	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1386.000	-58.46	-57.74	-13.00	-45.46	-0.72	Peak	Horizontal
2 PP	2080.000	-55.25	-59.16	-13.00	-42.25	3.91	Peak	Horizontal



MODE	TX channel 133422	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1384.000	-58.78	-58.24	-13.00	-45.78	-0.54	Peak	Vertical
2 PP	2079.000	-55.48	-59.28	-13.00	-42.48	3.80	Peak	Vertical





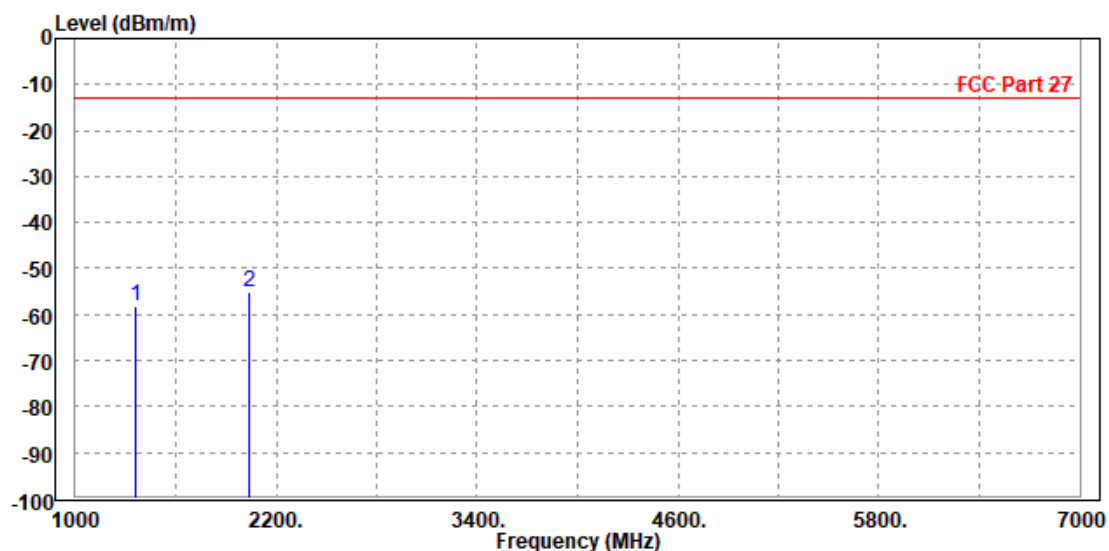
BUREAU
VERITAS

Test Report No.: W7L-P23050004RF06

CHANNEL BANDWIDTH: 15MHz / QPSK

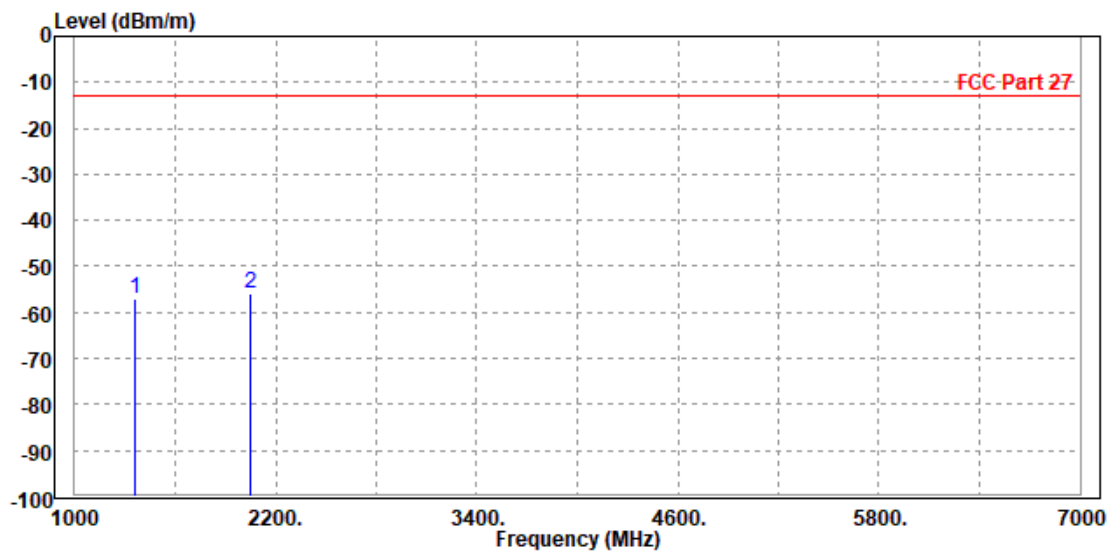
MODE	TX channel 133297	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1360.000	-58.33	-57.54	-13.00	-45.33	-0.79	Peak	Horizontal
2 PP	2041.500	-55.10	-58.87	-13.00	-42.10	3.77	Peak	Horizontal



MODE	TX channel 133297	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

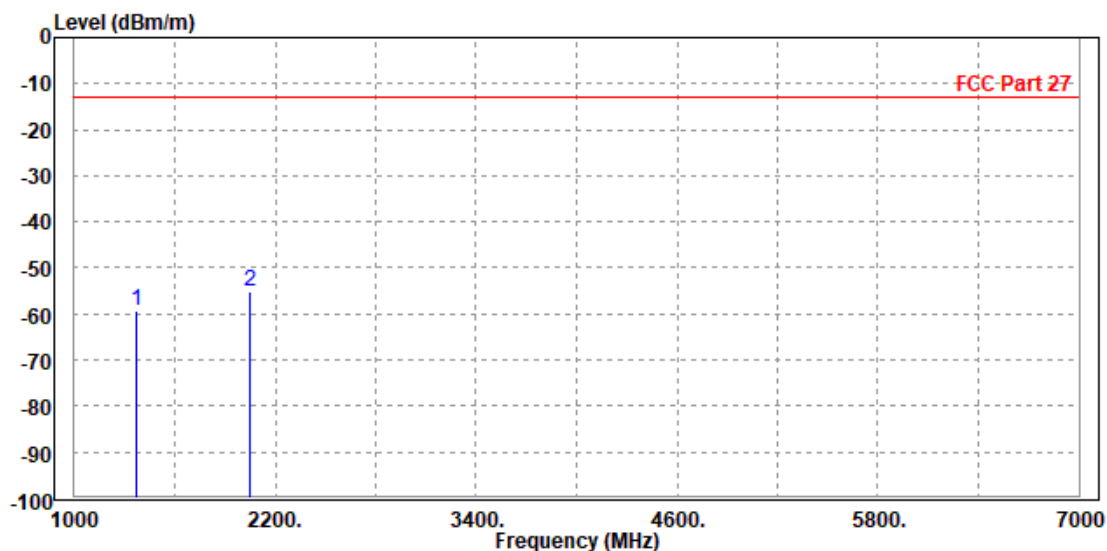
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1361.000	-56.99	-56.35	-13.00	-43.99	-0.64	Peak	Vertical
2 PP	2044.000	-55.70	-59.40	-13.00	-42.70	3.70	Peak	Vertical



CHANNEL BANDWIDTH: 20MHz / QPSK

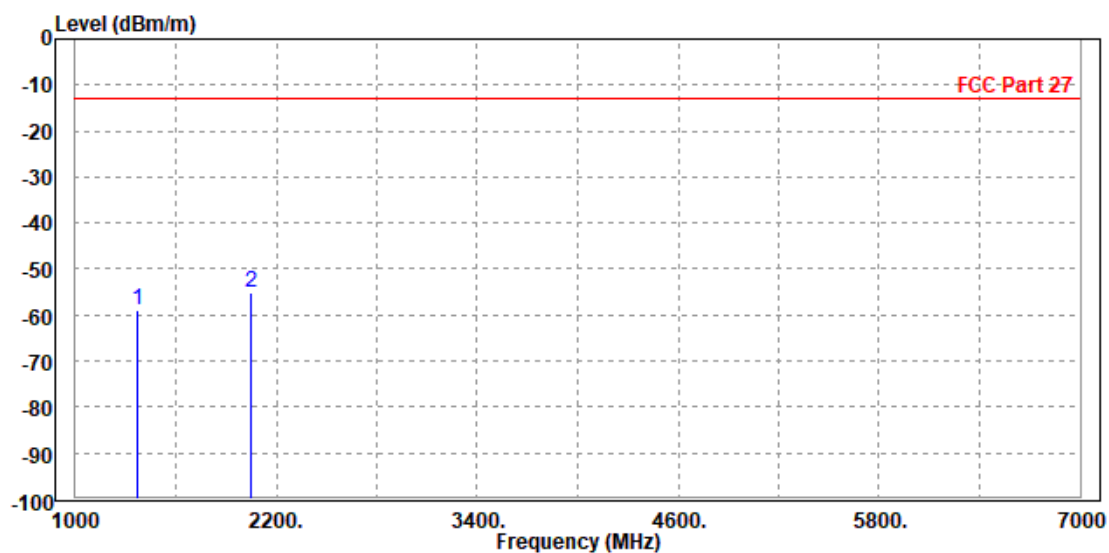
MODE	TX channel 133322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1366.000	-59.49	-58.71	-13.00	-46.49	-0.78	Peak	Horizontal
2 PP	2050.000	-55.24	-59.04	-13.00	-42.24	3.80	Peak	Horizontal



MODE	TX channel 133322	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1366.000	-58.76	-58.14	-13.00	-45.76	-0.62	Peak	Vertical
2 PP	2049.000	-55.26	-58.98	-13.00	-42.26	3.72	Peak	Vertical





Test Report No.: W7L-P23050004RF06

4 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:

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Fax: +86-755-88696577

Email: customerservice.sw@cn.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.



Test Report No.: W7L-P23050004RF06

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

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