



Test Report No.: W7L-P22110037RF06



FCC TEST REPORT (PART 27)

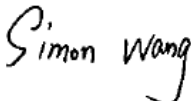

Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

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 Mobile Payment Terminal
Brand Name:	PAX
Model Name:	A960
FCC ID:	V5PA960
Date of tests:	Nov. 30, 2022 ~ Dec. 12, 2022

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: Dec. 12, 2022	 Date: Dec. 12, 2022

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P22110037RF06	Original release	Dec. 12, 2022



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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)	Effective Radiated Power (Band 12) (Band 13) (Band 17)	Compliance
§27.50(d)(4)	Equivalent Isotropically Radiated Power (Band 4)	Compliance
§2.1055 §27.54	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§2.1051 §27.53(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurements (Band 4) (Band 12) (Band 13) (Band 17)	Compliance
§2.1051 §27.53(c)(2)(4) §27.53(g) §27.53(f) §27.53(h)	Conducted Spurious Emissions (Band 4) (Band 12) (Band 13) (Band 17)	Compliance
§2.1053 §27.53(c)(2)(4) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emissions (Band 4) (Band 12) (Band 13) (Band 17)	Compliance
NA	Peak to average ratio	Compliance

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
Frequency Stability	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions & Radiated Power (30MHz~1GMHz)	±4.98dB
Radiated emissions & Radiated Power (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
Conducted Output power	±2.06dB
Band Edge Measurements	±4.70dB

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

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 21,22	Feb. 20,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.15,22	May.14,23
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.04,22	Sep.03,23
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Mar. 06,22	Mar. 05,23
Horn Antenna	ETS-LINDGRE N	3117	00168692	Mar. 06,22	Mar. 05,23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Aug. 24, 22	Aug. 23, 23
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 15,22	Feb. 14,23
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 21,22	Feb.20,23
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	May. 19,20	May. 18,23
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	1505	May. 07,22	May. 06,23
Power Meter	Anritsu	ML2495A	1506002	Feb. 22,22	Feb. 21,23
Power Sensor	Anritsu	MA2411B	1339352	May. 07,22	May. 06,23
Temperature Chamber	ESPEC	SH-242	93000855	May. 12,22	May. 11,23
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 18,22	Feb. 17,23
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.12,22	May.11,23
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 24,22	Aug. 23,23

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, 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	Smart Mobile Payment Terminal	
BRAND NAME	PAX	
MODEL NAME	A960	
NOMINAL VOLTAGE	5.0Vdc(adapter or host equipment) 3.7Vdc (Li-ion, battery)	
MODULATION TECHNOLOGY	WCDMA IV	BPSK, QPSK
	LTE	QPSK, 16QAM, 64QAM
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

MAX. EIRP/ERP POWER	WCDMA IV	334.20mW
	LTE Band 4 Channel Bandwidth: 1.4MHz	276.69mW
	LTE Band 4 Channel Bandwidth: 3MHz	274.79mW
	LTE Band 4 Channel Bandwidth: 5MHz	277.33mW
	LTE Band 4 Channel Bandwidth: 10MHz	276.06mW
	LTE Band 4 Channel Bandwidth: 15MHz	275.42mW
	LTE Band 4 Channel Bandwidth: 20MHz	277.97mW
	LTE Band 12 Channel Bandwidth: 1.4MHz	181.97mW
	LTE Band 12 Channel Bandwidth: 3MHz	182.81mW
	LTE Band 12 Channel Bandwidth: 5MHz	180.72mW
	LTE Band 12 Channel Bandwidth: 10MHz	183.65mW
	LTE Band 13 Channel Bandwidth: 5MHz	185.78mW
	LTE Band 13 Channel Bandwidth: 10MHz	187.50mW
	LTE Band 17 Channel Bandwidth: 5MHz	176.60mW
	LTE Band 17 Channel Bandwidth: 10MHz	178.24mW
EMISSION DESIGNATOR	WCDMA IV	4M14F9W
	LTE Band 4 Channel Bandwidth: 1.4MHz	QPSK: 1M09G7D
		16QAM: 1M09W7D
		64QAM: 1M09W7D
	LTE Band 4 Channel Bandwidth: 3MHz	QPSK:2M70G7D
		16QAM: 2M69W7D
		64QAM: 2M70W7D
	LTE Band 4 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M50W7D
64QAM: 4M50W7D		

EMISSION DESIGNATOR	LTE Band 4 Channel Bandwidth: 10MHz	QPSK: 8M98G7D
		16QAM: 8M96W7D
		64QAM: 8M98W7D
	LTE Band 4 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
	LTE Band 4 Channel Bandwidth: 20MHz	QPSK: 17M9G7D
		16QAM: 17M9W7D
		64QAM: 17M9W7D
	LTE Band 12 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D
		16QAM: 1M09W7D
		64QAM: 1M09W7D
	LTE Band 12 Channel Bandwidth: 3MHz	QPSK: 2M70G7D
		16QAM: 2M70W7D
		64QAM: 2M70W7D
	LTE Band 12 Channel Bandwidth: 5MHz	QPSK: 4M51G7D
		16QAM: 4M51W7D
		64QAM: 4M50W7D
	LTE Band 12 Channel Bandwidth: 10MHz	QPSK: 8M97G7D
		16QAM: 8M97W7D
		64QAM: 8M96W7D
	LTE Band 13 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M50W7D
		64QAM: 4M50W7D
LTE Band 13 Channel Bandwidth: 10MHz	QPSK: 8M96G7D	
	16QAM: 8M94W7D	
	64QAM: 8M94W7D	



**BUREAU
VERITAS**

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ANTENNA TYPE	Monopole Antenna with 2.09dBi gain for WCDMA IV Monopole Antenna with 2.09dBi gain for LTE4 Monopole Antenna with 2.08dBi gain for LTE12 Monopole Antenna with 2.17dBi gain for LTE13 Monopole Antenna with 2.08dBi gain for LTE17
HW VERSION	A960
SW VERSION	N/A
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	0-45 °C
EXTREME VOLTAGE	3.5V - 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
WCDMA	1TX/1RX
LTE	1TX/1RX



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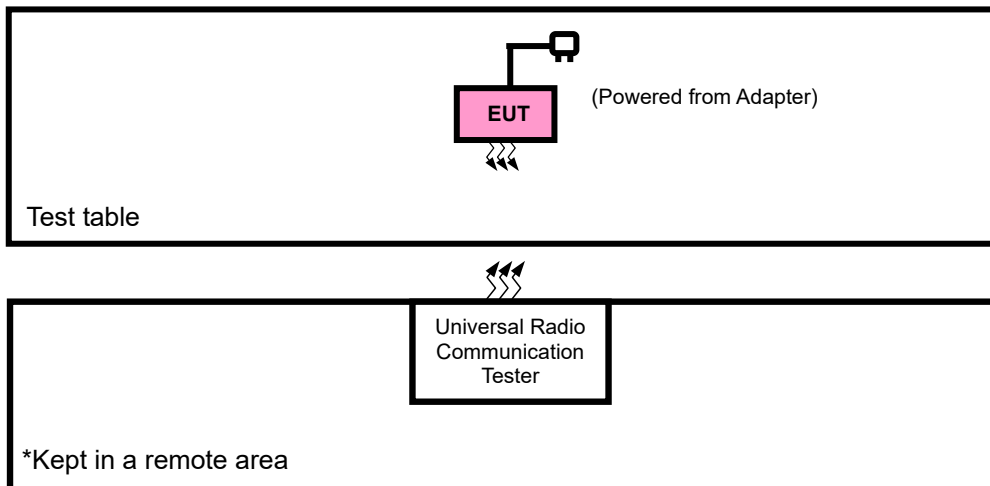
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery	VEKEN	N/A	YW-029	Capacity: 3.7Vdc, 5150mAh
AC Adapter	PAX	Shenzhen Sorghum red Electronics Technology Co.,Ltd	GLH50D2000HW	I/P: 100-240Vac, 0.4A, O/P: 5.0Vdc, 2A
USB Cable	N/A	N/A	N/A	Signal Line,1.0meter

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 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 + Battery with 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
B	FREQUENCY STABILITY	1312 to 1513	1312, 1413, 1513	WCDMA
A	OCCUPIED BANDWIDTH	1312 to 1513	1312, 1413, 1513	WCDMA
A	BAND EDGE	1312 to 1513, 1312, 1413, 1513	1312, 1513	WCDMA
A	PEAK TO AVERAGE RATIO	1312 to 1513	1312, 1413, 1513	WCDMA
A	CONDUCTED EMISSION	1312 to 1513	1312, 1413, 1513	WCDMA
A	RADIATED EMISSION	1312 to 1513	1312, 1413, 1513	WCDMA

LTE BAND 4 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
B	EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	19957 to 20393	19957, 20393	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	19965, 20385	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975, 20375	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20000, 20350	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025, 20325	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20300	20MHz	QPSK	1 RB / 0 RB Offset
B	OCCUPIED BANDWIDTH	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM	15 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	75 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	100 RB / 0 RB Offset
B	PEAK TO AVERAGE RATIO	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
B	BAND EDGE	19957 to 20393	19957	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
			20393	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		19965 to 20385	19965	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
			20385	3MHz	QPSK, 16QAM, 64QAM	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		19975 to 20375	19975	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
			20375	5MHz	QPSK, 16QAM, 64QAM	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
20000 to 20350	20000	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
				50 RB / 0 RB Offset		
	20350	10MHz	QPSK, 16QAM, 64QAM	1 RB / 49 RB Offset		
				50 RB / 0 RB Offset		

B	BAND EDGE	20025 to 20325	20025	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
						75 RB / 0 RB Offset
		20050 to 20300	20325	15MHz	QPSK, 16QAM, 64QAM	1 RB / 74 RB Offset
						75 RB / 0 RB Offset
			20050	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
						100 RB / 0 RB Offset
	20300	20MHz	QPSK, 16QAM, 64QAM	1 RB / 99 RB Offset		
				100 RB / 0 RB Offset		
B	CONDCUDED EMISSION	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	20175	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	20175	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20175	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20175	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20175	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 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, 64QAM	1 RB / 0 RB Offset		
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
B	FREQUENCY STABILITY	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB Offset		
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM, 64QAM	15 RB / 0 RB Offset		
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset		
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset		
A	OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB Offset		
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM, 64QAM	15 RB / 0 RB Offset		
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset		
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset		
A	PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 6 RB / 0 RB Offset		
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 15 RB / 0 RB Offset		
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset		
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset		
A	BAND EDGE	23017 to 23173	23017	1.4MHz	QPSK	1 RB / 0 RB Offset 6 RB / 0 RB Offset		
			23173	1.4MHz	QPSK	1 RB / 5 RB Offset 6 RB / 0 RB Offset		
		23025 to 23165	23025	3MHz	QPSK	1 RB / 0 RB Offset 15 RB / 0 RB Offset		
			23165	3MHz	QPSK	1 RB / 14 RB Offset 15 RB / 0 RB Offset		
		23035 to 23155	23035	5MHz	QPSK	1 RB / 0 RB Offset 25 RB / 0 RB Offset		
			23155	5MHz	QPSK	1 RB / 24 RB Offset 25 RB / 0 RB Offset		
		23060 to 23130	23060	10MHz	QPSK	1 RB / 0 RB Offset 50 RB / 0 RB Offset		
			23130	10MHz	QPSK	1 RB / 49 RB Offset 50 RB / 0 RB Offset		
		A	CONDCUDED EMISSION	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
				23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
				23035 to 23155	23035, 23095 ,23155	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
				23060 to 23130	23060, 23095 ,23130	10MHz	QPSK, 16QAM, 64QAM	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		



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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	20025, 20175, 20325	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		23230	23230	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	23205 to 23255	20025, 20325	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		23230	23230	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	23205 to 23255	20025, 20175, 20325	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		23230	23230	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
A	BAND EDGE	23205 to 23255	23250	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			23255	5MHz	QPSK,16QAM, 64QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		23230	23230	10MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 50 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,64QAM	1 RB / 0 RB Offset
		23780 to 23800	23780, 23790, 23800	10MHz	QPSK,16QAM,64QAM	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



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TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 56%RH	DC 5V By Adapter	Jace Hu
FREQUENCY STABILITY	23deg. C, 56%RH	DC 3.7V By Battery	James Fu
OCCUPIED BANDWIDTH	23deg. C, 56%RH	DC5V By Adapter	James Fu
BAND EDGE	23deg. C, 56%RH	DC 5V By Adapter	James Fu
CONDCUDED EMISSION	23deg. C, 56%RH	DC5V By Adapter	James Fu
RADIATED EMISSION	23deg. C, 56%RH	DC5V By Adapter	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 56%RH	DC5V By Adapter	James Fu



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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

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

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:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{c}}$$

Where:

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

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

G_{T} = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_{c} = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

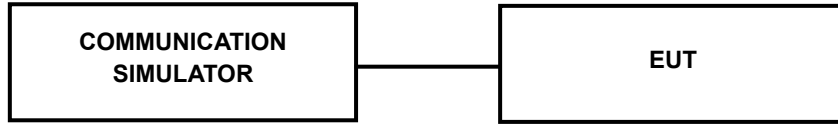
- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



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3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



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



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3.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA IV		
	1312	1413	1513
Channel	1712.4	1732.6	1752.6
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	23.01	22.98	23.15
HSDPA Subtest-1	21.94	21.93	22.13
HSDPA Subtest-2	21.95	21.91	22.10
HSDPA Subtest-3	21.38	21.36	21.58
HSDPA Subtest-4	21.36	21.41	21.57
DC-HSDPA Subtest-1	21.86	21.92	22.11
DC-HSDPA Subtest-2	21.87	21.87	22.05
DC-HSDPA Subtest-3	21.35	21.30	21.56
DC-HSDPA Subtest-4	21.34	21.34	21.52
HSUPA Subtest-1	21.95	21.90	22.13
HSUPA Subtest-2	20.00	19.96	20.07
HSUPA Subtest-3	20.93	20.88	21.01
HSUPA Subtest-4	19.98	19.88	20.06
HSUPA Subtest-5	21.87	21.86	22.08



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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	22.31	22.29	22.33
		1	2	22.06	22.06	22.10
		1	5	22.09	22.07	22.16
		3	0	22.15	22.14	22.20
		3	1	22.06	22.08	22.10
		3	3	22.06	22.02	22.08
		6	0	21.14	21.13	21.15
	16QAM	1	0	21.59	21.58	21.66
		1	2	21.49	21.49	21.57
		1	5	21.46	21.39	21.56
		3	0	21.11	21.16	21.18
		3	1	21.09	21.15	21.18
		3	3	21.11	21.08	21.12
		6	0	20.08	20.17	20.16
	64QAM	1	0	20.42	20.41	20.49
		1	2	20.25	20.31	20.37
		1	5	20.30	20.25	20.28
		3	0	20.05	20.08	20.11
		3	1	20.09	20.16	20.12
		3	3	20.08	20.01	20.18
		6	0	19.12	19.07	19.17

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	22.26	22.28	22.30
		1	7	22.02	22.07	22.10
		1	14	22.03	22.12	22.15
		8	0	21.13	21.21	21.20
		8	3	21.03	21.05	21.10
		8	7	21.03	21.09	21.12
		15	0	21.10	21.14	21.13
	16QAM	1	0	21.62	21.57	21.70
		1	7	21.43	21.53	21.54
		1	14	21.48	21.41	21.55
		8	0	20.13	20.14	20.18
		8	3	20.11	20.08	20.21
		8	7	20.14	20.11	20.05
		15	0	20.09	20.11	20.15
	64QAM	1	0	20.48	20.40	20.49
		1	7	20.28	20.31	20.35
		1	14	20.30	20.25	20.29
		8	0	19.05	19.10	19.14
		8	3	19.13	19.10	19.17
		8	7	19.05	19.05	19.14
		15	0	19.14	19.04	19.21

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	22.27	22.27	22.34
		1	12	22.05	22.07	22.07
		1	24	22.03	22.13	22.16
		12	0	21.17	21.17	21.21
		12	6	21.01	21.08	21.13
		12	13	21.04	21.05	21.12
		25	0	21.07	21.17	21.12
	16QAM	1	0	21.62	21.57	21.69
		1	12	21.43	21.51	21.51
		1	24	21.45	21.45	21.51
		12	0	20.08	20.16	20.21
		12	6	20.11	20.09	20.18
		12	13	20.08	20.08	20.11
		25	0	20.06	20.17	20.15
	64QAM	1	0	20.41	20.45	20.49
		1	12	20.29	20.28	20.34
		1	24	20.24	20.32	20.28
		12	0	19.09	19.09	19.11
		12	6	19.09	19.16	19.15
		12	13	19.09	19.04	19.11
		25	0	19.10	19.10	19.19

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	22.24	22.31	22.32
		1	24	22.06	22.06	22.10
		1	49	22.09	22.07	22.16
		25	0	21.15	21.14	21.20
		25	12	21.06	21.08	21.10
		25	25	21.04	21.02	21.08
		50	0	21.12	21.13	21.15
	16QAM	1	0	21.62	21.58	21.66
		1	24	21.45	21.49	21.57
		1	49	21.49	21.39	21.56
		25	0	20.07	20.17	20.18
		25	12	20.15	20.08	20.22
		25	25	20.07	20.09	20.08
		50	0	20.11	20.13	20.19
	64QAM	1	0	20.47	20.39	20.46
		1	24	20.27	20.25	20.40
		1	49	20.31	20.31	20.22
		25	0	19.08	19.06	19.13
		25	12	19.14	19.12	19.16
		25	25	19.08	19.01	19.13
		50	0	19.15	19.06	19.20

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	22.28	22.30	22.31
		1	37	22.07	22.11	22.08
		1	74	22.05	22.09	22.20
		36	0	21.20	21.20	21.17
		36	19	20.99	21.03	21.16
		36	39	21.10	21.06	21.11
		75	0	21.12	21.18	21.11
	16QAM	1	0	21.60	21.60	21.69
		1	37	21.45	21.55	21.56
		1	74	21.49	21.39	21.56
		36	0	20.07	20.17	20.18
		36	19	20.14	20.10	20.21
		36	39	20.14	20.08	20.05
		75	0	20.08	20.16	20.17
	64QAM	1	0	20.47	20.39	20.46
		1	37	20.27	20.25	20.40
		1	74	20.31	20.31	20.22
		36	0	19.06	19.06	19.13
		36	19	19.13	19.17	19.14
		36	39	19.11	19.01	19.18
		75	0	19.14	19.04	19.21

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	22.32	22.35	22.35
		1	50	22.09	22.12	22.12
		1	99	22.11	22.14	22.21
		50	0	21.21	21.22	21.22
		50	25	21.07	21.10	21.18
		50	50	21.11	21.10	21.14
		100	0	21.15	21.19	21.17
	16QAM	1	0	21.64	21.65	21.71
		1	50	21.51	21.57	21.59
		1	99	21.51	21.47	21.57
		50	0	20.15	20.21	20.23
		50	25	20.17	20.16	20.23
		50	50	20.15	20.13	20.13
		100	0	20.14	20.19	20.21
	64QAM	1	0	20.49	20.46	20.51
		1	50	20.33	20.33	20.42
		1	99	20.32	20.33	20.30
		50	0	19.13	19.14	19.19
		50	25	19.15	19.18	19.18
		50	50	19.13	19.09	19.19
		100	0	19.16	19.12	19.22

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	22.50	22.67	22.60
		1	2	22.23	22.29	22.31
		1	5	22.53	22.60	22.61
		3	0	22.30	22.42	22.40
		3	1	22.27	22.48	22.30
		3	3	22.23	22.34	22.32
		6	0	21.31	21.45	21.38
	16QAM	1	0	21.77	21.92	21.89
		1	2	21.54	21.69	21.64
		1	5	21.81	21.87	21.92
		3	0	21.29	21.45	21.35
		3	1	21.24	21.50	21.34
		3	3	21.23	21.39	21.38
		6	0	20.26	20.44	20.35
	64QAM	1	0	20.63	20.82	20.80
		1	2	20.33	20.60	20.45
		1	5	20.63	20.79	20.76
		3	0	20.24	20.40	20.27
		3	1	20.20	20.46	20.33
		3	3	20.28	20.39	20.35
		6	0	19.22	19.40	19.31

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	22.52	22.69	22.59
		1	7	22.19	22.30	22.31
		1	14	22.49	22.60	22.61
		8	0	21.29	21.45	21.40
		8	3	21.20	21.48	21.32
		8	7	21.20	21.41	21.36
		15	0	21.28	21.46	21.32
	16QAM	1	0	21.74	21.98	21.92
		1	7	21.51	21.72	21.62
		1	14	21.84	21.87	21.92
		8	0	20.25	20.46	20.35
		8	3	20.29	20.45	20.37
		8	7	20.25	20.37	20.34
		15	0	20.26	20.38	20.38
	64QAM	1	0	20.69	20.85	20.74
		1	7	20.36	20.54	20.44
		1	14	20.64	20.81	20.76
		8	0	19.27	19.44	19.28
		8	3	19.24	19.40	19.38
		8	7	19.25	19.43	19.31
		15	0	19.24	19.37	19.35

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	22.53	22.64	22.60
		1	12	22.24	22.27	22.31
		1	24	22.50	22.59	22.63
		12	0	21.32	21.45	21.37
		12	6	21.20	21.49	21.33
		12	13	21.24	21.37	21.37
		25	0	21.26	21.49	21.35
	16QAM	1	0	21.75	21.94	21.92
		1	12	21.48	21.75	21.61
		1	24	21.84	21.87	21.91
		12	0	20.25	20.44	20.32
		12	6	20.26	20.49	20.33
		12	13	20.20	20.39	20.37
		25	0	20.26	20.39	20.35
	64QAM	1	0	20.63	20.82	20.80
		1	12	20.33	20.60	20.44
		1	24	20.57	20.86	20.76
		12	0	19.28	19.41	19.27
		12	6	19.18	19.47	19.37
		12	13	19.29	19.42	19.28
		25	0	19.20	19.43	19.33

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	22.58	22.71	22.65
		1	24	22.26	22.35	22.33
		1	49	22.55	22.67	22.66
		25	0	21.36	21.50	21.42
		25	12	21.28	21.50	21.38
		25	25	21.28	21.42	21.38
		50	0	21.32	21.51	21.40
	16QAM	1	0	21.82	21.99	21.94
		1	24	21.56	21.77	21.66
		1	49	21.86	21.95	21.93
		25	0	20.33	20.50	20.40
		25	12	20.32	20.51	20.39
		25	25	20.27	20.44	20.39
		50	0	20.32	20.46	20.40
	64QAM	1	0	20.70	20.87	20.82
		1	24	20.41	20.62	20.50
		1	49	20.65	20.87	20.78
		25	0	19.32	19.46	19.35
		25	12	19.26	19.48	19.39
		25	25	19.33	19.47	19.36
		50	0	19.26	19.45	19.36



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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	22.63	22.67	22.66
		1	12	22.34	22.28	22.35
		1	24	22.54	22.58	22.57
		12	0	21.52	21.49	21.53
		12	6	21.42	21.37	21.39
		12	13	21.34	21.32	21.38
		25	0	21.45	21.44	21.38
	16QAM	1	0	21.93	21.92	21.94
		1	12	21.64	21.61	21.65
		1	24	21.82	21.77	21.79
		12	0	20.47	20.45	20.51
		12	6	20.46	20.40	20.47
		12	13	20.35	20.39	20.38
		25	0	20.45	20.39	20.46
	64QAM	1	0	20.76	20.80	20.79
		1	12	20.48	20.45	20.49
		1	24	20.75	20.70	20.72
		12	0	19.42	19.40	19.46
		12	6	19.42	19.41	19.35
		12	13	19.36	19.33	19.35
		25	0	19.43	19.38	19.42



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Band/BW	Modulation	RB Size	RB Offset	/	Mid CH 23230	/
				/	Frequency 782.0 MHz	/
13/ 10	QPSK	1	0	/	22.71	/
		1	24	/	22.36	/
		1	49	/	22.62	/
		25	0	/	21.55	/
		25	12	/	21.44	/
		25	25	/	21.40	/
		50	0	/	21.46	/
	16QAM	1	0	/	22.00	/
		1	24	/	21.67	/
		1	49	/	21.84	/
		25	0	/	20.53	/
		25	12	/	20.48	/
		25	25	/	20.43	/
		50	0	/	20.47	/
	64QAM	1	0	/	20.84	/
		1	24	/	20.51	/
		1	49	/	20.77	/
		25	0	/	19.48	/
		25	12	/	19.43	/
		25	25	/	19.41	/
		50	0	/	19.44	/



**BUREAU
VERITAS**

Test Report No.: W7L-P22110037RF06

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	22.54	22.45	22.52
		1	12	22.28	22.29	22.25
		1	24	22.45	22.42	22.50
		12	0	21.12	21.17	21.13
		12	6	21.28	21.09	21.23
		12	13	21.19	21.16	21.14
		25	0	21.20	21.21	21.15
	16QAM	1	0	21.82	21.79	21.87
		1	12	21.54	21.45	21.51
		1	24	21.78	21.75	21.83
		12	0	20.16	20.21	20.15
		12	6	20.22	20.29	20.29
		12	13	20.36	20.27	20.23
		25	0	20.19	20.26	20.26
	64QAM	1	0	20.69	20.60	20.56
		1	12	20.40	20.41	20.41
		1	24	20.62	20.53	20.59
		12	0	19.12	19.09	19.17
		12	6	19.19	19.24	19.18
		12	13	19.30	19.27	19.25
		25	0	19.26	19.17	19.13

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	22.58	22.50	22.56
		1	24	22.34	22.31	22.30
		1	49	22.52	22.47	22.52
		25	0	21.20	21.19	21.18
		25	12	21.30	21.17	21.25
		25	25	21.27	21.22	21.22
		50	0	21.26	21.23	21.21
	16QAM	1	0	21.89	21.84	21.89
		1	24	21.60	21.52	21.56
		1	49	21.85	21.80	21.85
		25	0	20.24	20.23	20.21
		25	12	20.30	20.30	20.31
		25	25	20.40	20.32	20.31
		50	0	20.27	20.27	20.28
	64QAM	1	0	20.73	20.65	20.64
		1	24	20.46	20.43	20.44
		1	49	20.68	20.60	20.64
		25	0	19.19	19.14	19.19
		25	12	19.27	19.26	19.24
		25	25	19.38	19.33	19.33
		50	0	19.30	19.22	19.21



BUREAU
VERITAS

Test Report No.: W7L-P22110037RF06

EIRP

WCDMA IV

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1312	1712.4	23.01	2.09	25.1	323.59	1
1413	1732.6	22.98	2.09	25.07	321.37	1
1513	1752.6	23.15	2.09	25.24	334.20	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	22.31	2.09	24.4	275.42	1
20175	1732.5	22.29	2.09	24.38	274.16	1
20393	1754.3	22.33	2.09	24.42	276.69	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	21.59	2.09	23.68	233.35	1
20175	1732.5	21.58	2.09	23.67	232.81	1
20393	1754.3	21.66	2.09	23.75	237.14	1

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	20.42	2.09	22.51	178.24	1
20175	1732.5	20.41	2.09	22.5	177.83	1
20393	1754.3	20.49	2.09	22.58	181.13	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	22.26	2.09	24.35	272.27	1
20175	1732.5	22.28	2.09	24.37	273.53	1
20385	1753.5	22.3	2.09	24.39	274.79	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	21.62	2.09	23.71	234.96	1
20175	1732.5	21.48	2.09	23.57	227.51	1
20385	1753.5	21.48	2.09	23.57	227.51	1

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	20.48	2.09	22.57	180.72	1
20175	1732.5	20.4	2.09	22.49	177.42	1
20385	1753.5	20.49	2.09	22.58	181.13	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	22.27	2.09	24.36	272.9	1
20175	1732.5	22.27	2.09	24.36	272.9	1
20375	1752.5	22.34	2.09	24.43	277.33	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	21.62	2.09	23.71	234.96	1
20175	1732.5	21.57	2.09	23.66	232.27	1
20375	1752.5	21.69	2.09	23.78	238.78	1

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	20.41	2.09	22.5	177.83	1
20175	1732.5	20.45	2.09	22.54	179.47	1
20375	1752.5	20.49	2.09	22.58	181.13	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	22.24	2.09	24.33	271.02	1
20175	1732.5	22.31	2.09	24.4	275.42	1
20350	1750	22.32	2.09	24.41	276.06	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	21.62	2.09	23.71	234.96	1
20175	1732.5	21.58	2.09	23.67	232.81	1
20350	1750	21.66	2.09	23.75	237.14	1

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	20.47	2.09	22.56	180.3	1
20175	1732.5	20.39	2.09	22.48	177.01	1
20350	1750	20.46	2.09	22.55	179.89	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	22.28	2.09	24.37	273.53	1
20175	1732.5	22.3	2.09	24.39	274.79	1
20325	1747.5	22.31	2.09	24.4	275.42	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	21.6	2.09	23.69	233.88	1
20175	1732.5	21.6	2.09	23.69	233.88	1
20325	1747.5	21.69	2.09	23.78	238.78	1

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	20.47	2.09	22.56	180.3	1
20175	1732.5	20.39	2.09	22.48	177.01	1
20325	1747.5	20.46	2.09	22.55	179.89	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	22.32	2.09	24.41	276.06	1
20175	1732.5	22.35	2.09	24.44	277.97	1
20300	1745	22.35	2.09	24.44	277.97	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	21.64	2.09	23.73	236.05	1
20175	1732.5	21.65	2.09	23.74	236.59	1
20300	1745	21.71	2.09	23.8	239.88	1

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	20.49	2.09	22.58	181.13	1
20175	1732.5	20.46	2.09	22.55	179.89	1
20300	1745	20.51	2.09	22.6	181.97	1

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	22.53	2.08	22.46	176.2	3
23095	707.5	22.67	2.08	22.6	181.97	3
23173	715.3	22.61	2.08	22.54	179.47	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	21.81	2.08	21.74	149.28	3
23095	707.5	21.92	2.08	21.85	153.11	3
23173	715.3	21.92	2.08	21.85	153.11	3

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23017	699.7	20.63	2.08	20.56	113.76	3
23095	707.5	20.82	2.08	20.75	118.85	3
23173	715.3	20.8	2.08	20.73	118.3	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	22.52	2.08	22.45	175.79	3
23095	707.5	22.69	2.08	22.62	182.81	3
23165	714.5	22.61	2.08	22.54	179.47	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	21.84	2.08	21.77	150.31	3
23095	707.5	21.98	2.08	21.91	155.24	3
23165	714.5	21.92	2.08	21.85	153.11	3

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23025	700.5	20.69	2.08	20.62	115.35	3
23095	707.5	20.85	2.08	20.78	119.67	3
23165	714.5	20.76	2.08	20.69	117.22	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	22.53	2.08	22.46	176.2	3
23095	707.5	22.64	2.08	22.57	180.72	3
23155	713.5	22.63	2.08	22.56	180.3	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	21.84	2.08	21.77	150.31	3
23095	707.5	21.94	2.08	21.87	153.82	3
23155	713.5	21.92	2.08	21.85	153.11	3

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23035	701.5	20.63	2.08	20.56	113.76	3
23095	707.5	20.86	2.08	20.79	119.95	3
23155	713.5	20.8	2.08	20.73	118.3	3



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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23060	704	22.58	2.08	22.51	178.24	3
23095	707.5	22.71	2.08	22.64	183.65	3
23130	711	22.66	2.08	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)
23060	704	21.86	2.08	21.79	151.01	3
23095	707.5	21.99	2.08	21.92	155.6	3
23130	711	21.94	2.08	21.87	153.82	3

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23060	704	20.7	2.08	20.63	115.61	3
23095	707.5	20.87	2.08	20.8	120.23	3
23130	711	20.82	2.08	20.75	118.85	3

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



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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	22.63	2.17	22.65	184.08	3
23230	782	22.67	2.17	22.69	185.78	3
23255	784.5	22.66	2.17	22.68	185.35	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	21.93	2.17	21.95	156.68	3
23230	782	21.92	2.17	21.94	156.31	3
23255	784.5	21.94	2.17	21.96	157.04	3

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	20.76	2.17	20.78	119.67	3
23230	782	20.8	2.17	20.82	120.78	3
23255	784.5	20.79	2.17	20.81	120.5	3

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	22.71	2.17	22.73	187.50	3
-	-	-	-	-	-	-

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	22	2.17	22.02	159.22	3
-	-	-	-	-	-	-

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	20.84	2.17	20.86	121.9	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	22.54	2.08	22.47	176.60	3
23790	710	22.45	2.08	22.38	172.98	3
23825	713.5	22.52	2.08	22.45	175.79	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	21.82	2.08	21.75	149.62	3
23790	710	21.79	2.08	21.72	148.59	3
23825	713.5	21.87	2.08	21.8	151.36	3

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23755	706.5	20.69	2.08	20.62	115.35	3
23790	710	20.6	2.08	20.53	112.98	3
23825	713.5	20.59	2.08	20.52	112.72	3



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CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23780	709	22.58	2.08	22.51	178.24	3
23790	710	22.5	2.08	22.43	174.98	3
23800	711	22.56	2.08	22.49	177.42	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23780	709	21.89	2.08	21.82	152.05	3
23790	710	21.84	2.08	21.77	150.31	3
23800	711	21.89	2.08	21.82	152.05	3

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23780	709	20.73	2.08	20.66	116.41	3
23790	710	20.65	2.08	20.58	114.29	3
23800	711	20.64	2.08	20.57	114.02	3

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

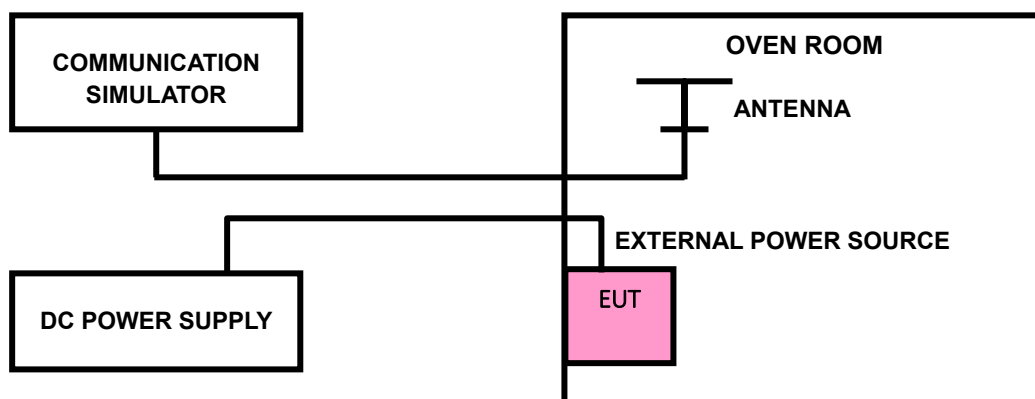
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

3.2.2 TEST PROCEDURE

- 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.
- 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.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ 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





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3.2.4 TEST RESULTS

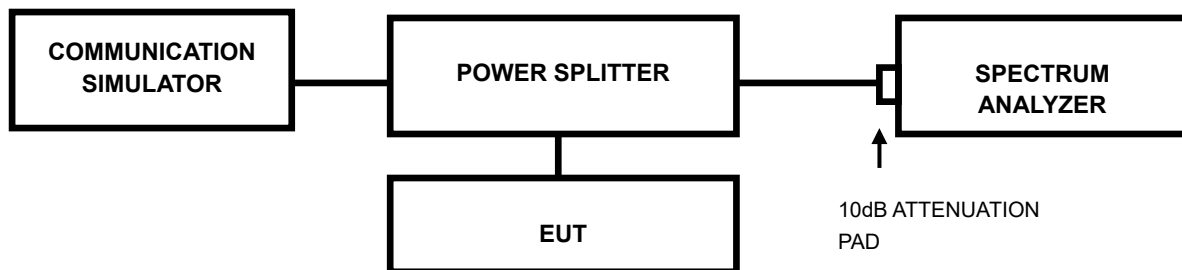
Please Refer to Appendix Of this test report.

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

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

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

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



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3.3.4 TEST RESULTS

Please Refer to Appendix Of this test report.



3.4 BAND EDGE MEASUREMENT

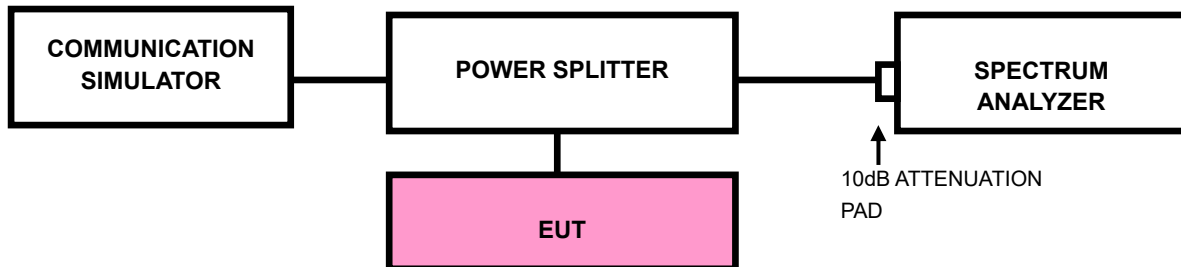
3.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 27.53(c) specified that For operations in the 746-758 MHz band and the 776-788 MHz band , the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emission in a 6.25kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P(dBW), by at least $65 + 10 \log 10p(P)$, dB, for mobile and portable equipment.

According to FCC 27.53(g) specified that For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC 27.53(h) specified that For operations in the 1710-1755 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's 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 1~50 MHz. RBW of the spectrum is 10kHz and VBW of the spectrum is 30kHz (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 2MHz. RBW of the spectrum is 51kHz and VBW of the spectrum is 150kHz (WCDMA).
- d. The center frequency of spectrum is the band edge frequency and span is 1~50 MHz. RBW of the spectrum is $\geq 1\% \cdot \text{EBW}$ kHz and VBW of the spectrum is $3 \cdot \text{RBW}$ kHz. (LTE bandwidth 1.4M/3M/5M/10M/15M/20MHz).
- e. Record the max trace plot into the test report.



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3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

According to FCC 27.53(c) specified that For operations in the 746-758 MHz band and the 776-788 MHz band , the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emission in an 6.25kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P(dBW), by at least $65 + 10 \log 10p(P)$, dB, for mobile and portable equipment.

According to FCC 27.53(g) specified that For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC 27.53(h) specified that For operations in the 1710-1755 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.5.2 TEST PROCEDURE

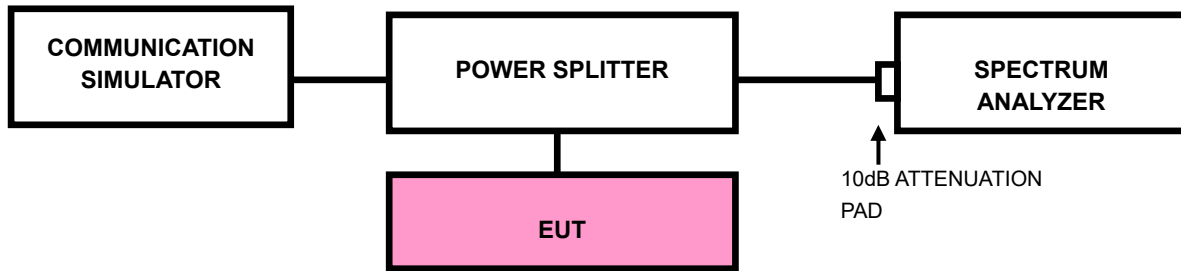
- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.



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3.5.3 TEST SETUP





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3.5.4 TEST RESULTS

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

Please Refer to Appendix Of this test report.



3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to FCC 27.53(c) specified that For operations in the 746-758 MHz band and the 776-788 MHz band , the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emission in an 6.25kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P(dBW), by at least $65 + 10 \log 10p(P)$, dB, for mobile and portable equipment.

According to FCC 27.53(g) specified that For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC 27.53(h) specified that For operations in the 1710-1755 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.



3.6.2 TEST PROCEDURES

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

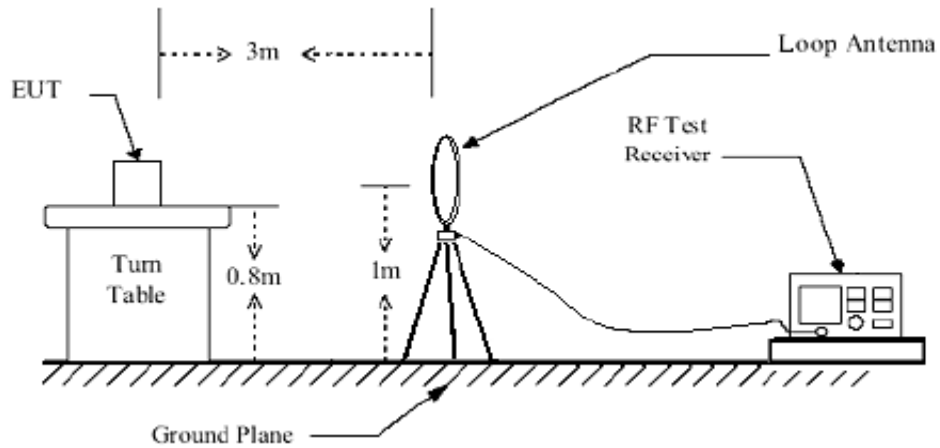
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

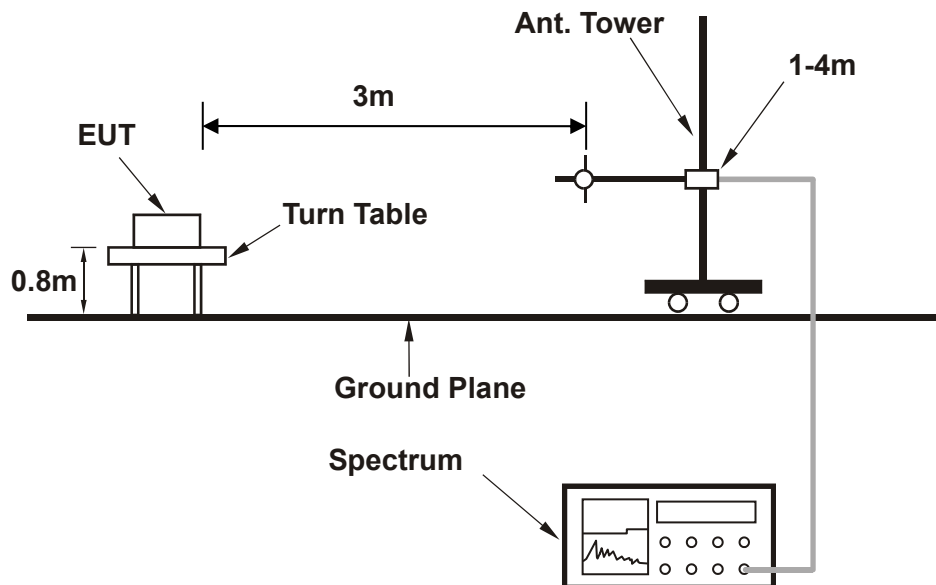
No deviation

3.6.4 TEST SETUP

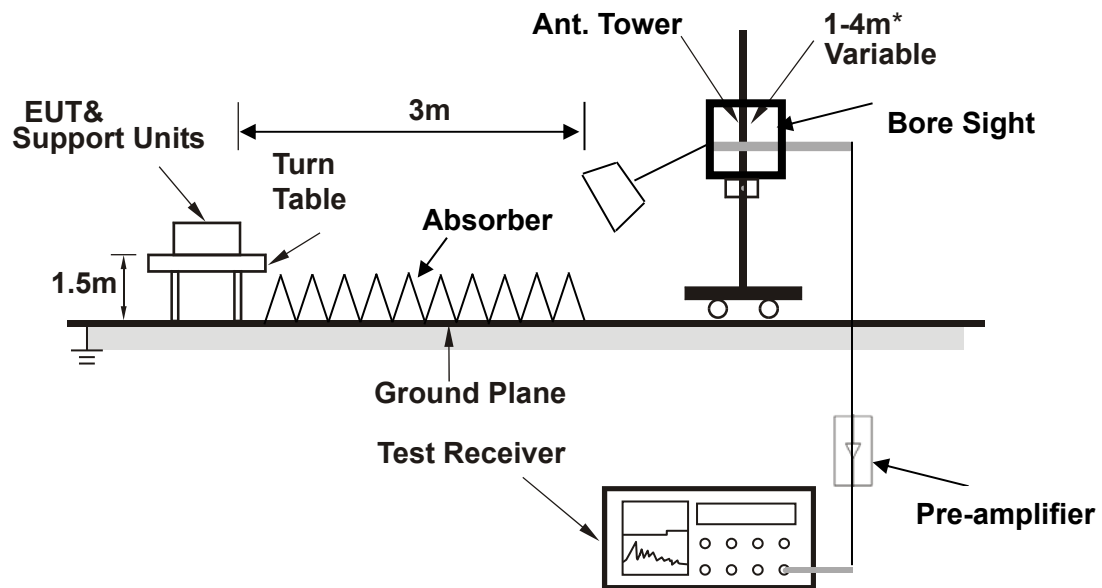
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



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

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



3.6.5 TEST RESULTS

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

BELOW 1GHz WORST-CASE DATA

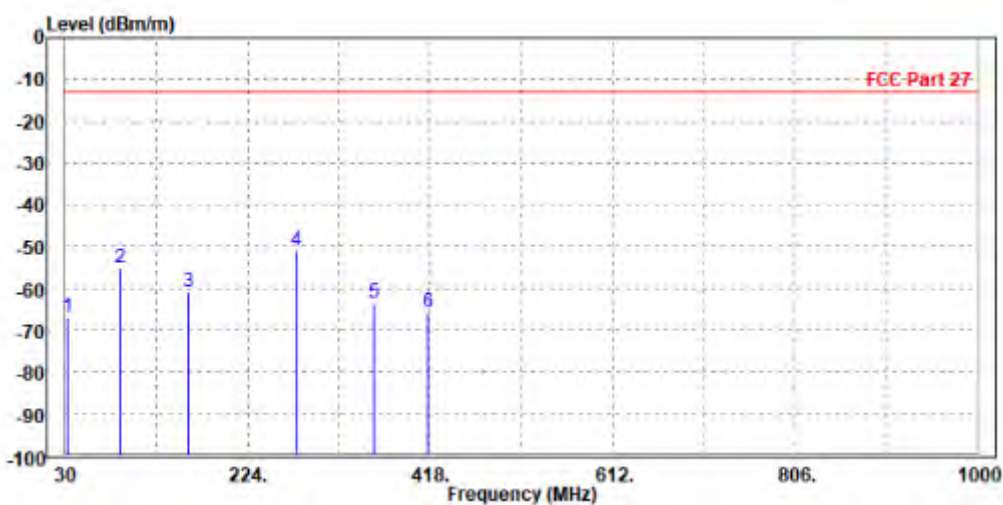
30 MHz – 1GHz data:

LTE Band 13

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 23255	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	32.910	-66.80	-56.38	-13.00	-53.80	-10.42	Peak	Horizontal
2	88.200	-55.15	-34.10	-13.00	-42.15	-21.05	Peak	Horizontal
3	160.950	-60.74	-44.84	-13.00	-47.74	-15.90	Peak	Horizontal
4 PP	275.410	-51.12	-39.15	-13.00	-38.12	-11.97	Peak	Horizontal
5	358.830	-63.53	-52.50	-13.00	-50.53	-11.03	Peak	Horizontal
6	415.090	-65.60	-55.84	-13.00	-52.60	-9.76	Peak	Horizontal

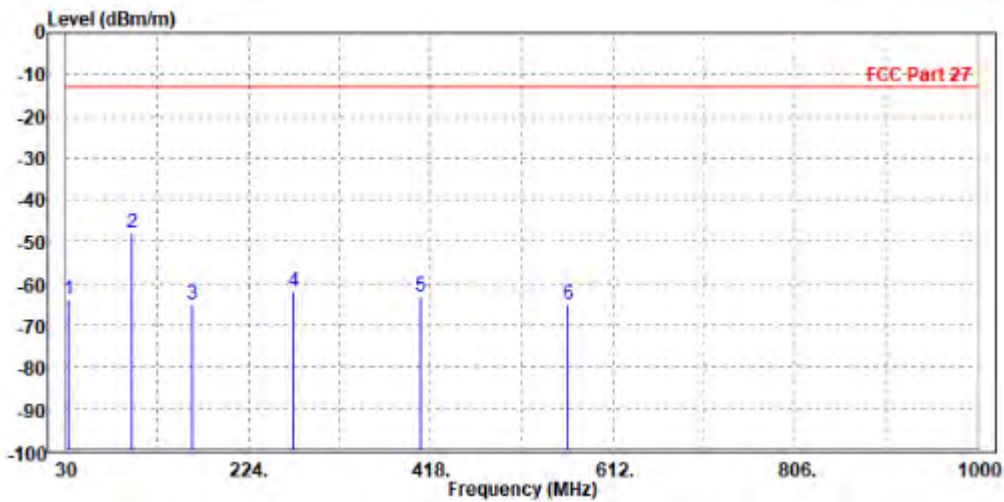




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MODE	TX channel 23255	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	32.910	-63.97	-45.02	-13.00	-50.97	-18.95	Peak	Vertical
2 PP	99.840	-47.78	-41.27	-13.00	-34.78	-6.51	Peak	Vertical
3	164.830	-64.94	-47.73	-13.00	-51.94	-17.21	Peak	Vertical
4	272.500	-61.84	-49.49	-13.00	-48.84	-12.35	Peak	Vertical
5	407.330	-63.02	-54.09	-13.00	-50.02	-8.93	Peak	Vertical
6	564.470	-65.07	-58.24	-13.00	-52.07	-6.83	Peak	Vertical





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Test Report No.: W7L-P22110037RF06

ABOVE 1GHz

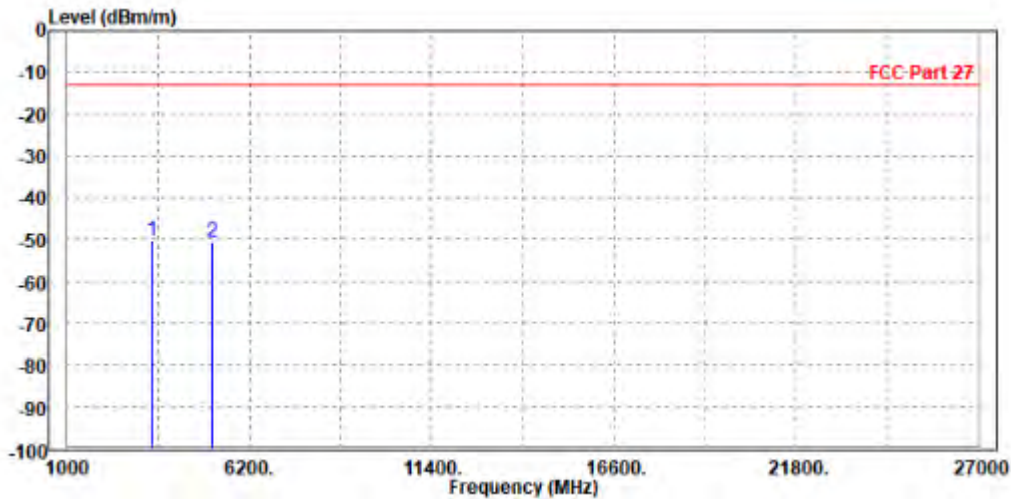
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band IV:

CH 1312

MODE	TX channel 1312	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 3418.000	-50.23	-57.44	-13.00	-37.23	7.21	Peak	Horizontal
2	5137.200	-50.45	-60.35	-13.00	-37.45	9.90	Peak	Horizontal

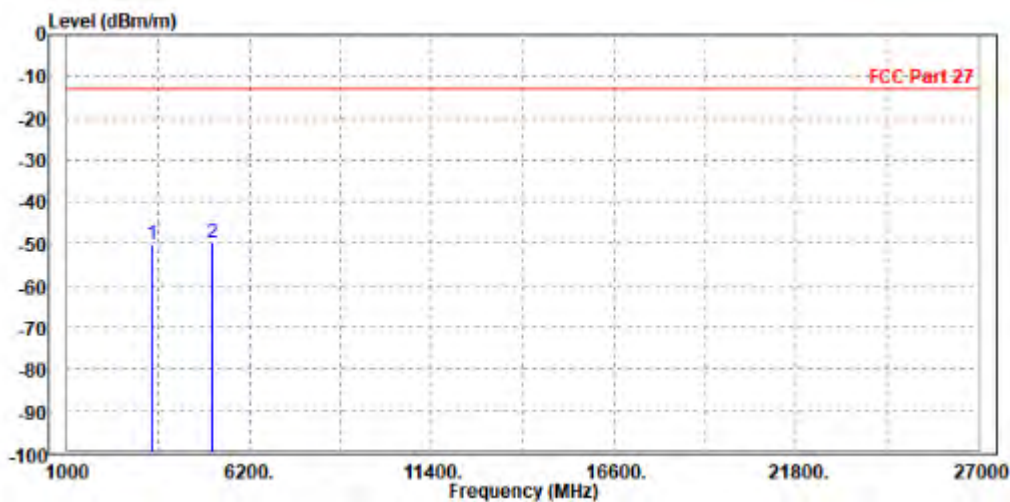




Test Report No.: W7L-P22110037RF06

MODE	TX channel 1312	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3424.800	-50.34	-57.54	-13.00	-37.34	7.20	Peak	Vertical
2 PP	5134.000	-49.77	-60.16	-13.00	-36.77	10.39	Peak	Vertical



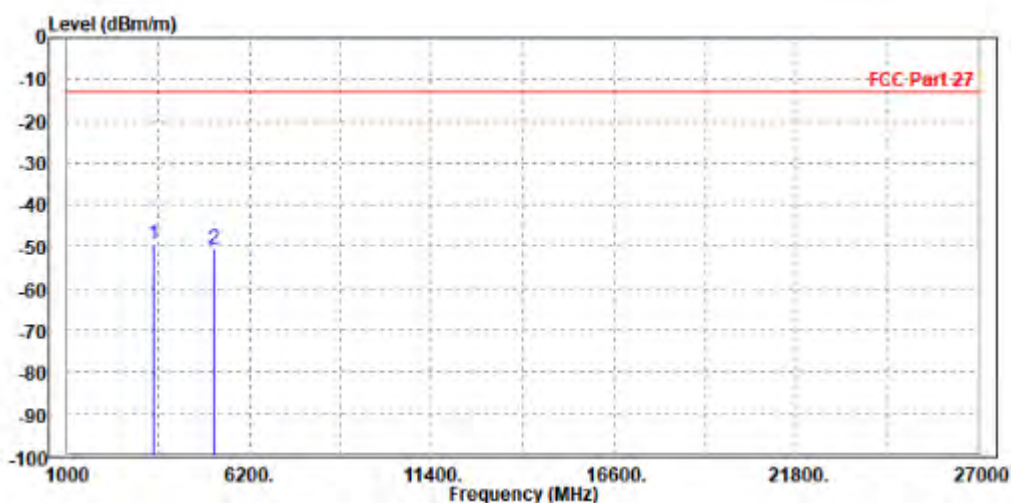


Test Report No.: W7L-P22110037RF06

CH 1413

MODE	TX channel 1413	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 3470.000	-49.49	-56.77	-13.00	-36.49	7.28	Peak	Horizontal
2	5197.800	-50.48	-60.48	-13.00	-37.48	10.00	Peak	Horizontal

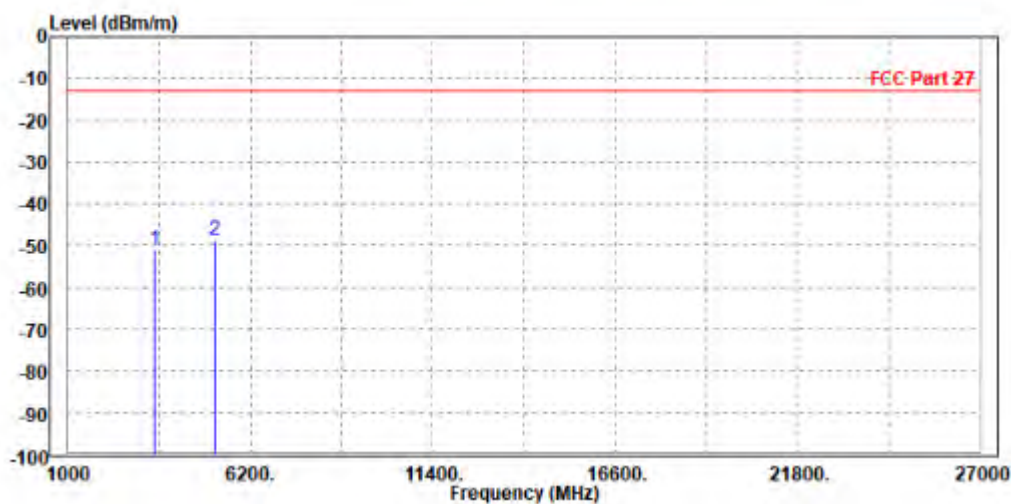




Test Report No.: W7L-P22110037RF06

MODE	TX channel 1413	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3465.200	-50.90	-58.16	-13.00	-37.90	7.26	Peak	Vertical
2 PP	5186.000	-48.86	-59.30	-13.00	-35.86	10.44	Peak	Vertical



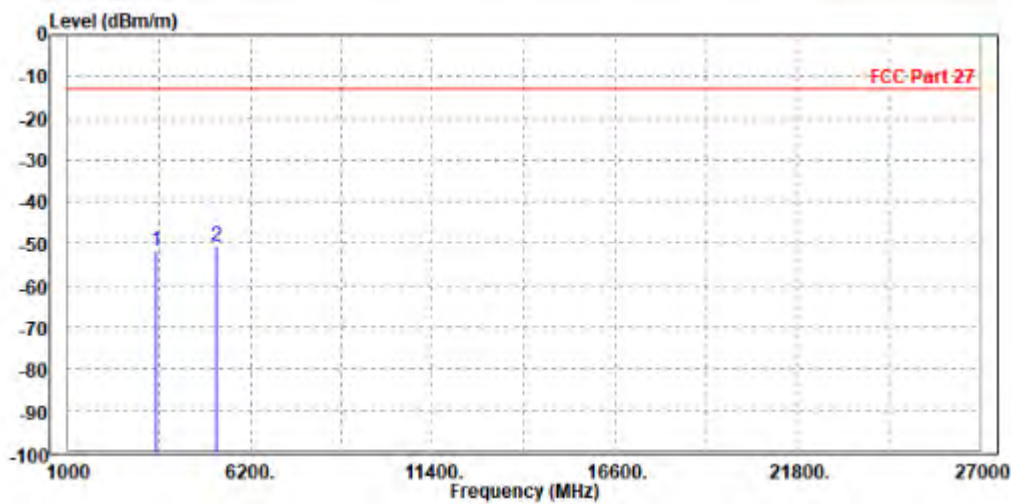


Test Report No.: W7L-P22110037RF06

CH 1513

MODE	TX channel 1513	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3505.200	-51.68	-59.02	-13.00	-38.68	7.34	Peak	Horizontal
2 PP	5238.000	-50.62	-60.68	-13.00	-37.62	10.06	Peak	Horizontal



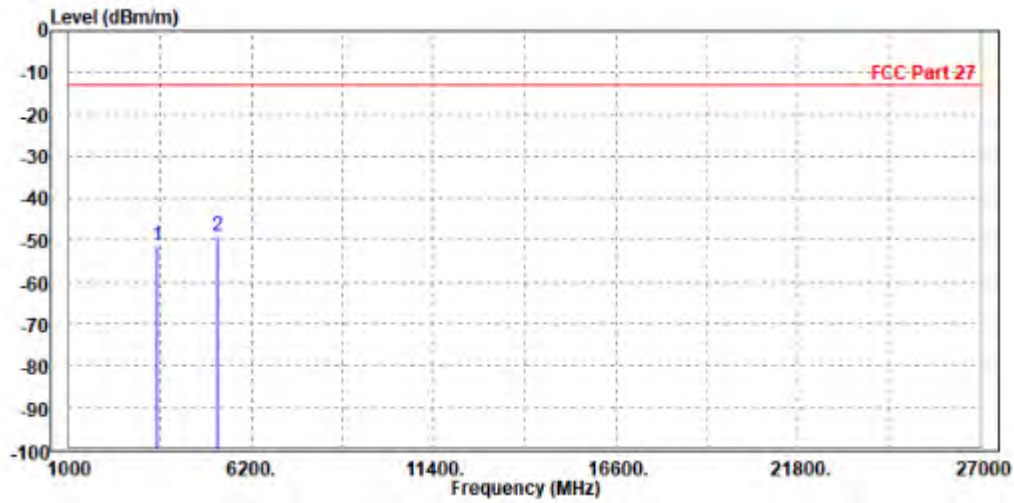


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Test Report No.: W7L-P22110037RF06

MODE	TX channel 1513	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3496.000	-51.44	-58.75	-13.00	-38.44	7.31	Peak	Vertical
2 PP	5237.800	-49.09	-59.58	-13.00	-36.09	10.49	Peak	Vertical





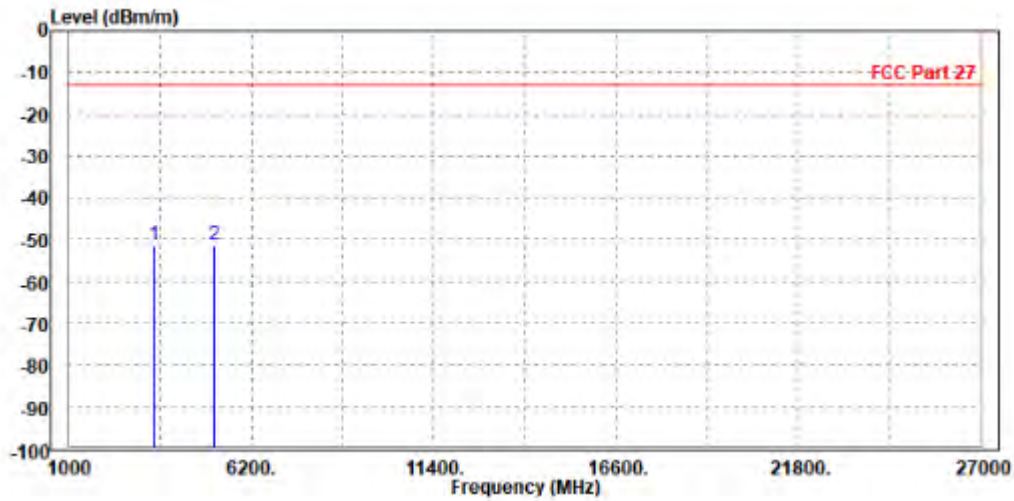
BUREAU VERITAS

Test Report No.: W7L-P22110037RF06

LTE Band 4
CHANNEL BANDWIDTH: 1.4MHz / QPSK
CH 19975

MODE	TX channel 19975	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3418.000	-51.45	-58.66	-13.00	-38.45	7.21	Peak	Horizontal
2 PP	5132.100	-51.29	-61.19	-13.00	-38.29	9.90	Peak	Horizontal

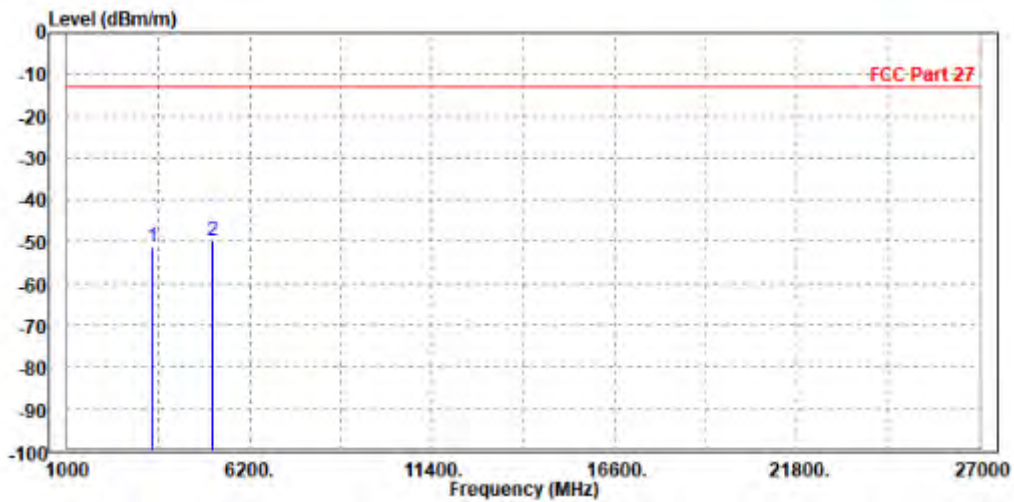




Test Report No.: W7L-P22110037RF06

MODE	TX channel 19975	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3421.400	-51.48	-58.68	-13.00	-38.48	7.20	Peak	Vertical
2 PP	5134.000	-49.90	-60.29	-13.00	-36.90	10.39	Peak	Vertical





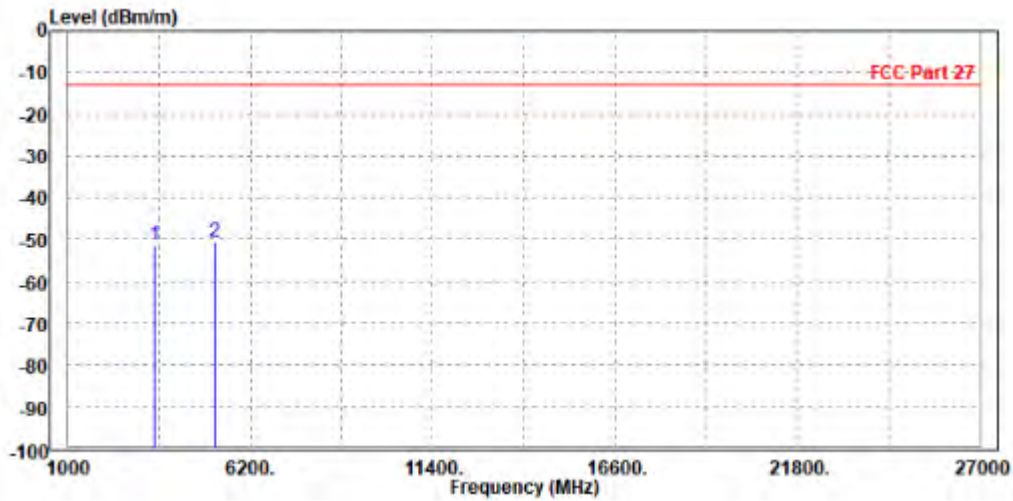
BUREAU VERITAS

Test Report No.: W7L-P22110037RF06

CH 20175

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3465.000	-51.24	-58.51	-13.00	-38.24	7.27	Peak	Horizontal
2 PP	5186.000	-50.46	-60.44	-13.00	-37.46	9.98	Peak	Horizontal

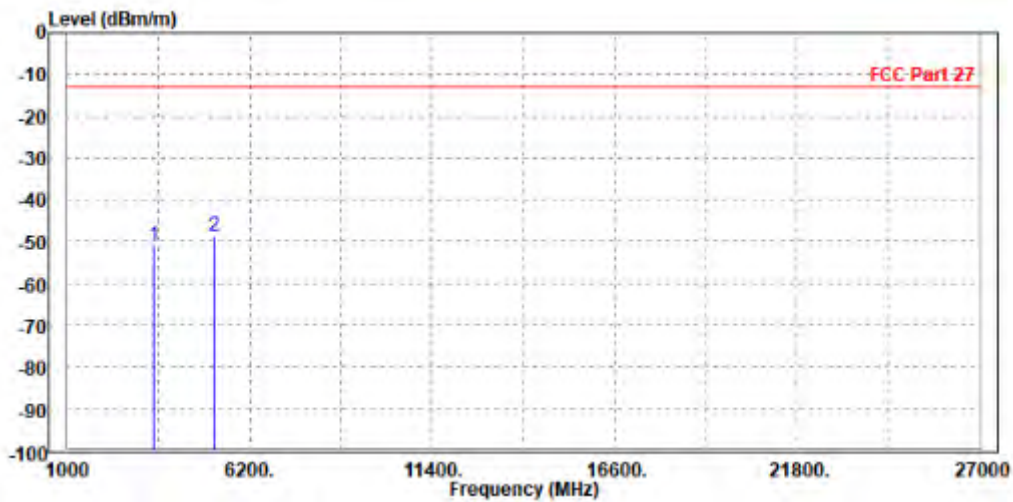




Test Report No.: W7L-P22110037RF06

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3470.000	-50.98	-58.25	-13.00	-37.98	7.27	Peak	Vertical
2 PP	5197.500	-48.76	-59.21	-13.00	-35.76	10.45	Peak	Vertical





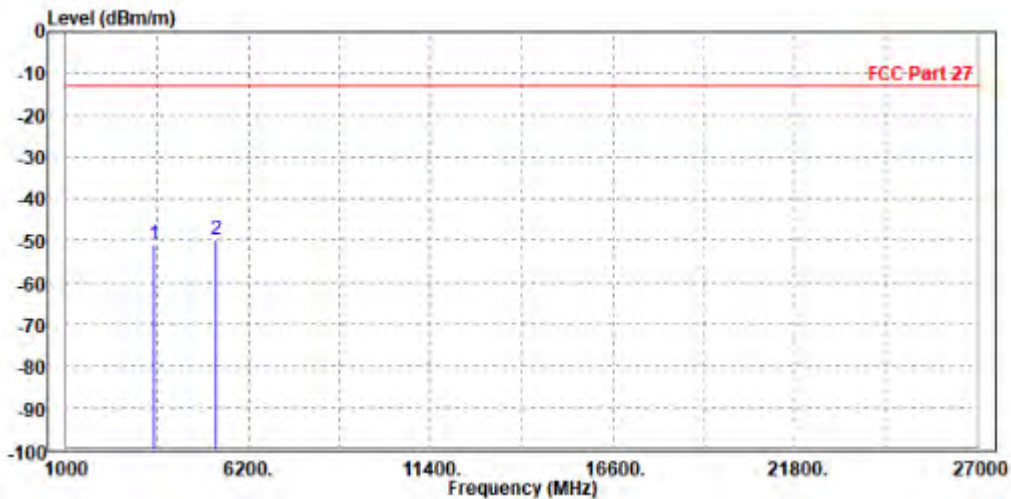
BUREAU VERITAS

Test Report No.: W7L-P22110037RF06

CH 20393

MODE	TX channel 20393	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3508.600	-51.10	-58.44	-13.00	-38.10	7.34	Peak	Horizontal
2 PP	5264.000	-49.79	-59.89	-13.00	-36.79	10.10	Peak	Horizontal

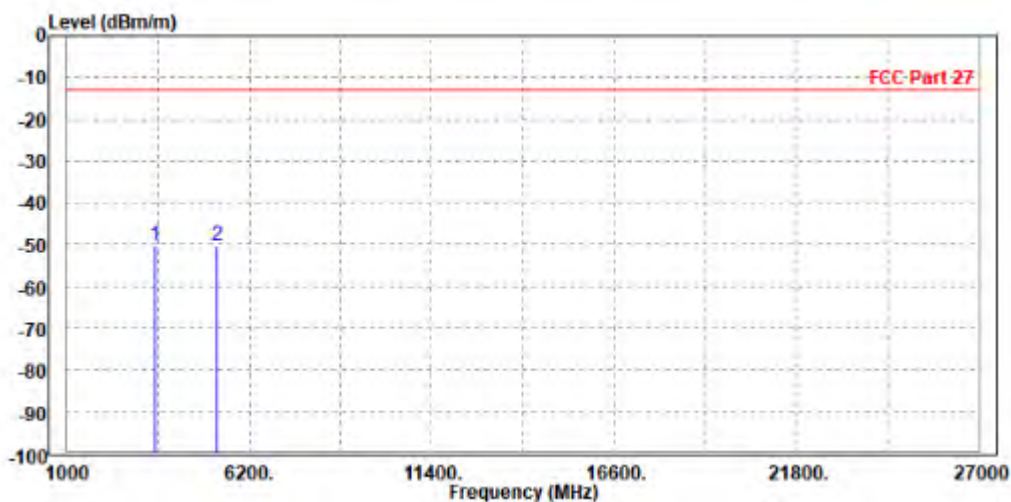




Test Report No.: W7L-P22110037RF06

MODE	TX channel 20393	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3496.000	-50.35	-57.66	-13.00	-37.35	7.31	Peak	Vertical
2 PP	5262.900	-50.17	-60.68	-13.00	-37.17	10.51	Peak	Vertical





BUREAU VERITAS

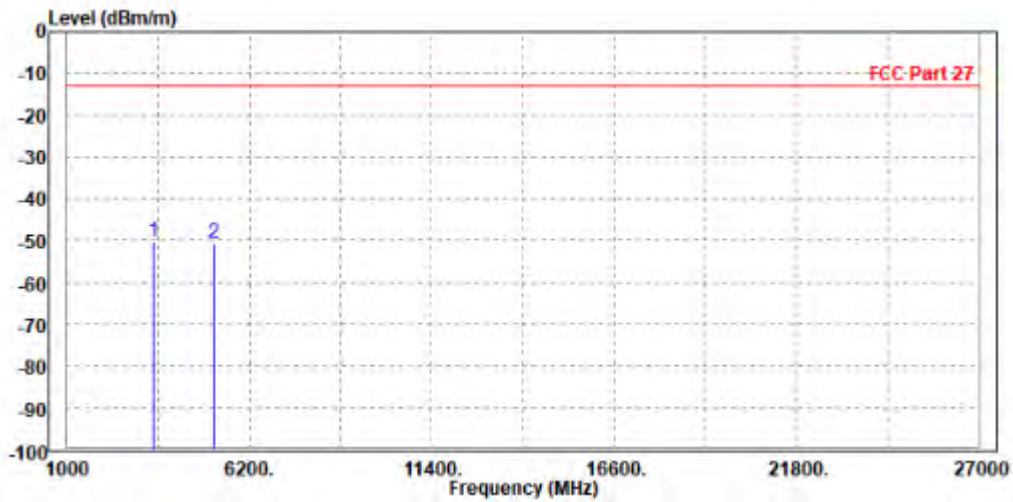
Test Report No.: W7L-P22110037RF06

CHANNEL BANDWIDTH: 3MHz / QPSK

CH 20175

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 3470.000	-50.33	-57.61	-13.00	-37.33	7.28	Peak	Horizontal
2	5197.500	-50.47	-60.47	-13.00	-37.47	10.00	Peak	Horizontal

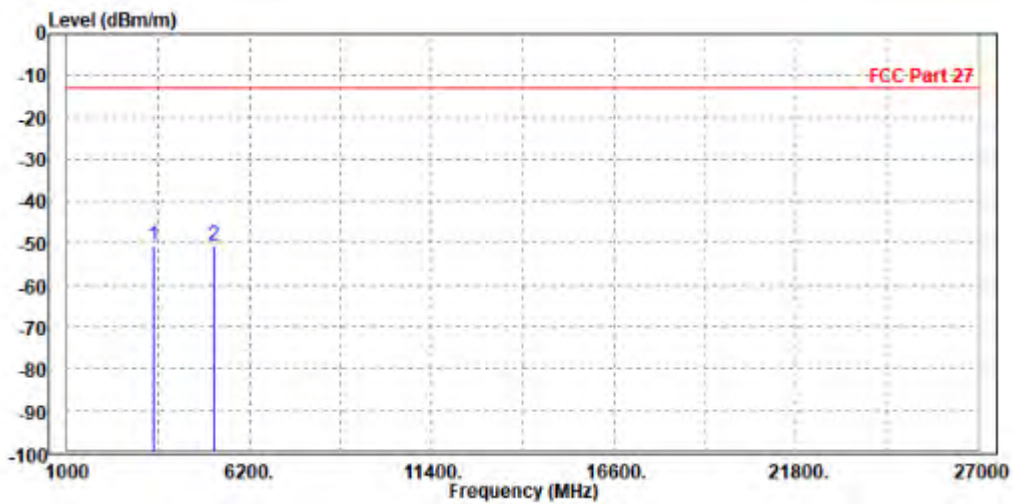




Test Report No.: W7L-P22110037RF06

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3465.000	-50.44	-57.70	-13.00	-37.44	7.26	Peak	Vertical
2	5186.000	-50.44	-60.88	-13.00	-37.44	10.44	Peak	Vertical



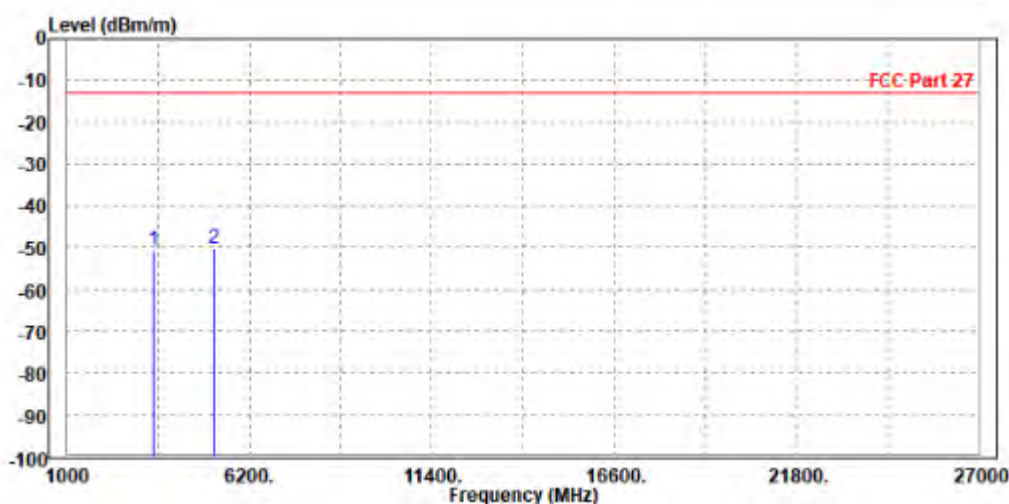


Test Report No.: W7L-P22110037RF06

CHANNEL BANDWIDTH: 5MHz / QPSK
CH 20175

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	Poi/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3465.000	-50.68	-57.95	-13.00	-37.68	7.27	Peak	Horizontal
2 PP	5186.000	-50.03	-60.01	-13.00	-37.03	9.98	Peak	Horizontal

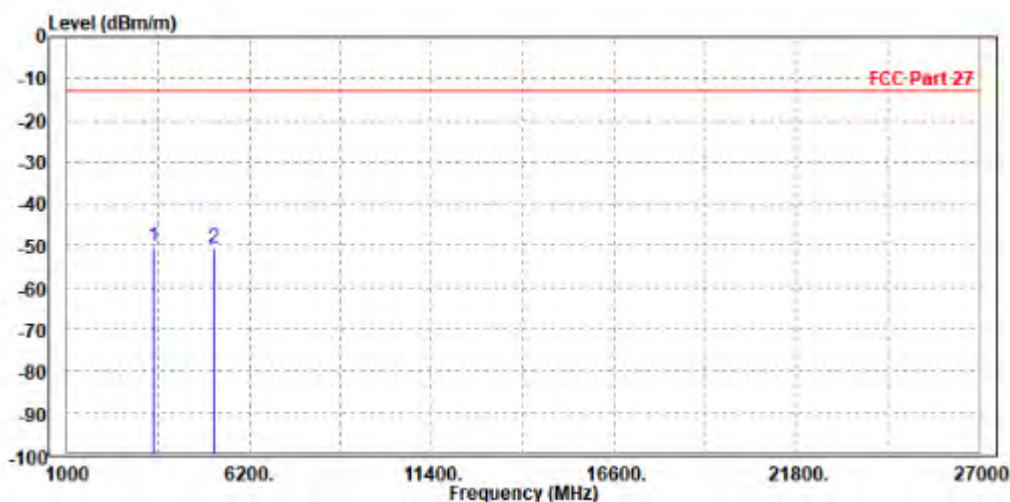




Test Report No.: W7L-P22110037RF06

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 3470.000	-50.31	-57.58	-13.00	-37.31	7.27	Peak	Vertical
2	5197.500	-50.48	-60.93	-13.00	-37.48	10.45	Peak	Vertical





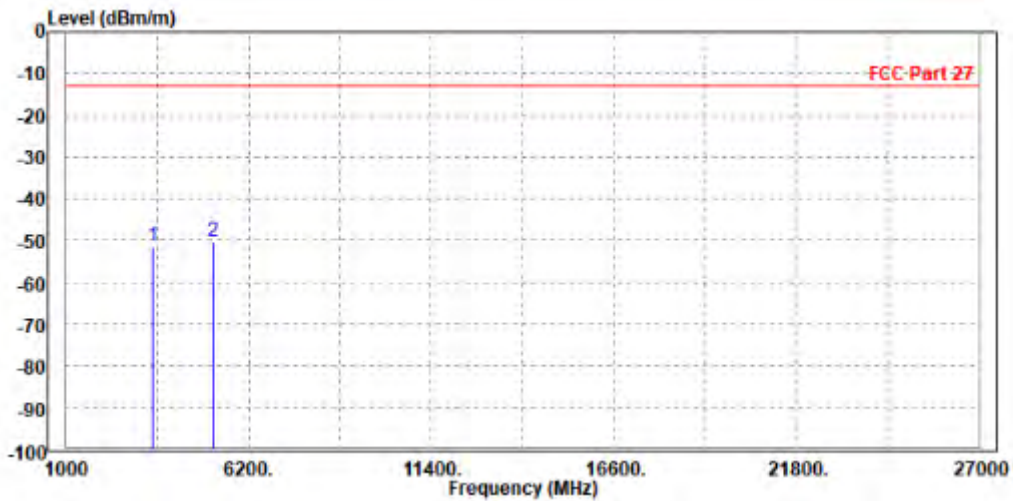
**BUREAU
VERITAS**

Test Report No.: W7L-P22110037RF06

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3470.000	-51.52	-58.80	-13.00	-38.52	7.28	Peak	Horizontal
2 PP	5197.500	-50.26	-60.26	-13.00	-37.26	10.00	Peak	Horizontal

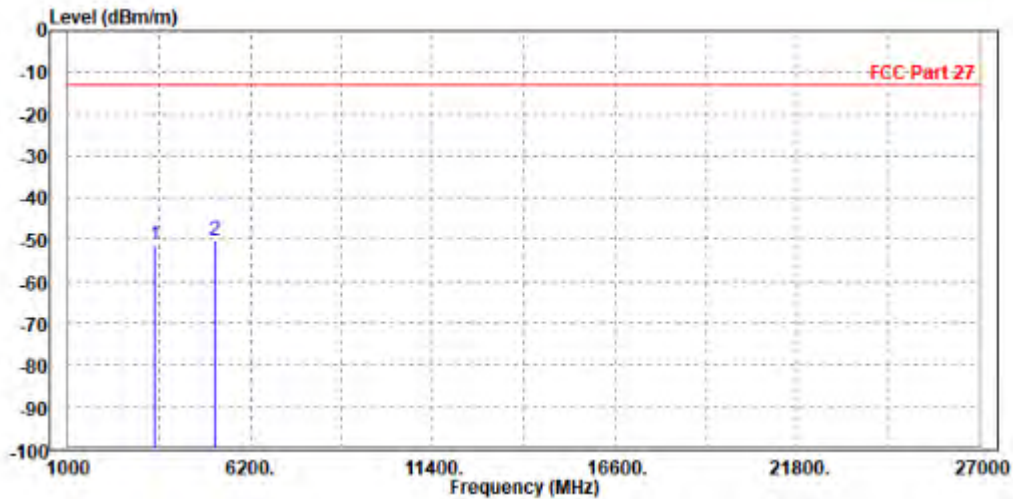




Test Report No.: W7L-P22110037RF06

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	-51.43	-58.69	-13.00	-38.43	7.26	Peak	Vertical
2 PP	5186.000	-50.04	-60.48	-13.00	-37.04	10.44	Peak	Vertical





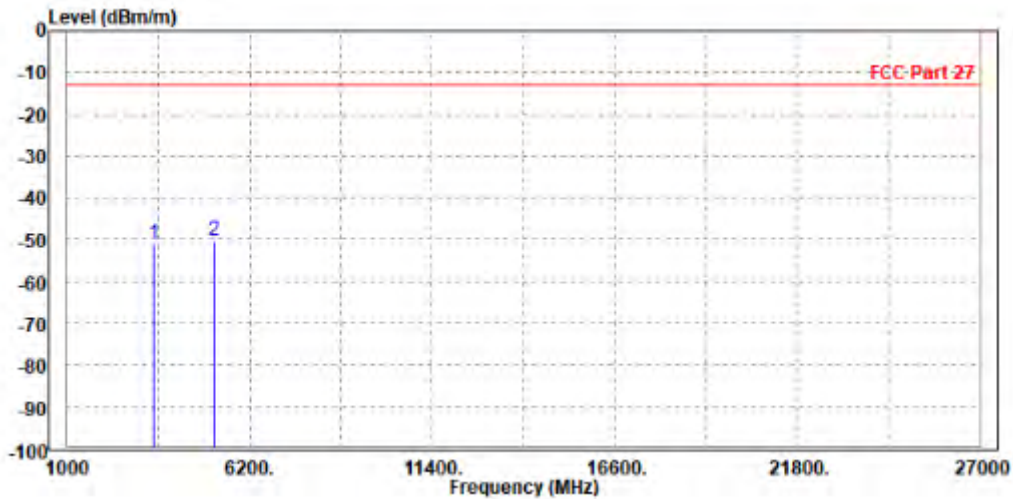
**BUREAU
VERITAS**

Test Report No.: W7L-P22110037RF06

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3470.000	-50.87	-58.15	-13.00	-37.87	7.28	Peak	Horizontal
2 PP	5197.500	-50.15	-60.15	-13.00	-37.15	10.00	Peak	Horizontal

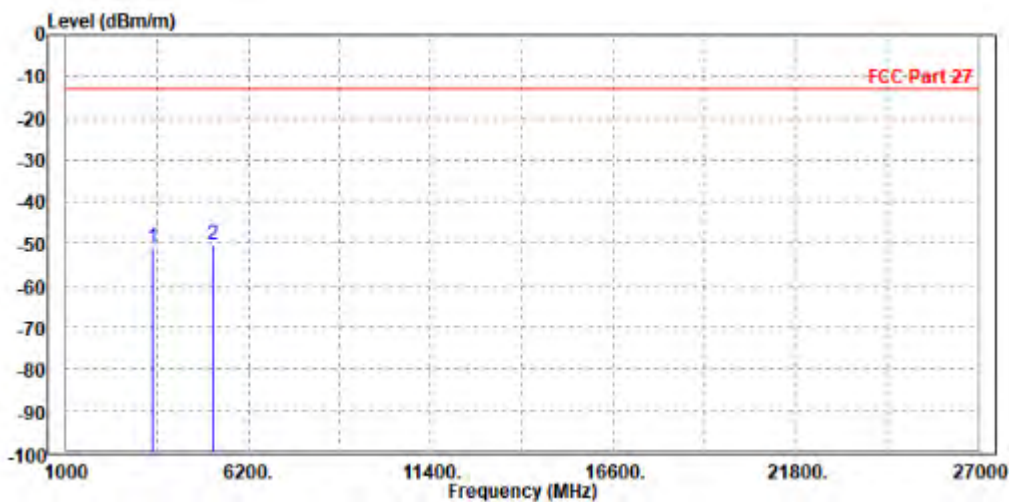




Test Report No.: W7L-P22110037RF06

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	-50.78	-58.04	-13.00	-37.78	7.26	Peak	Vertical
2 PP	5186.000	-50.14	-60.58	-13.00	-37.14	10.44	Peak	Vertical





BUREAU VERITAS

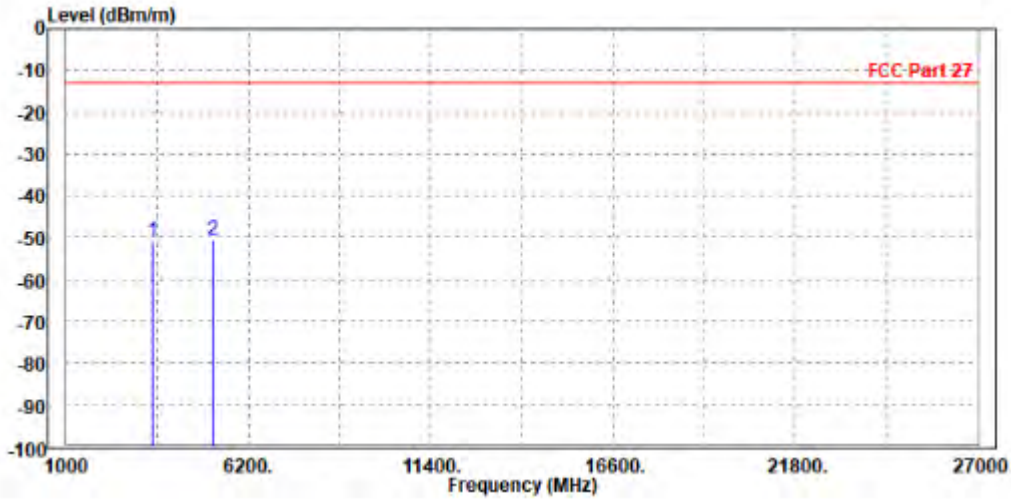
Test Report No.: W7L-P22110037RF06

CHANNEL BANDWIDTH: 20MHz / QPSK

CH 20175

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3465.000	-51.08	-58.35	-13.00	-38.08	7.27	Peak	Horizontal
2 PP	5186.000	-50.47	-60.45	-13.00	-37.47	9.98	Peak	Horizontal

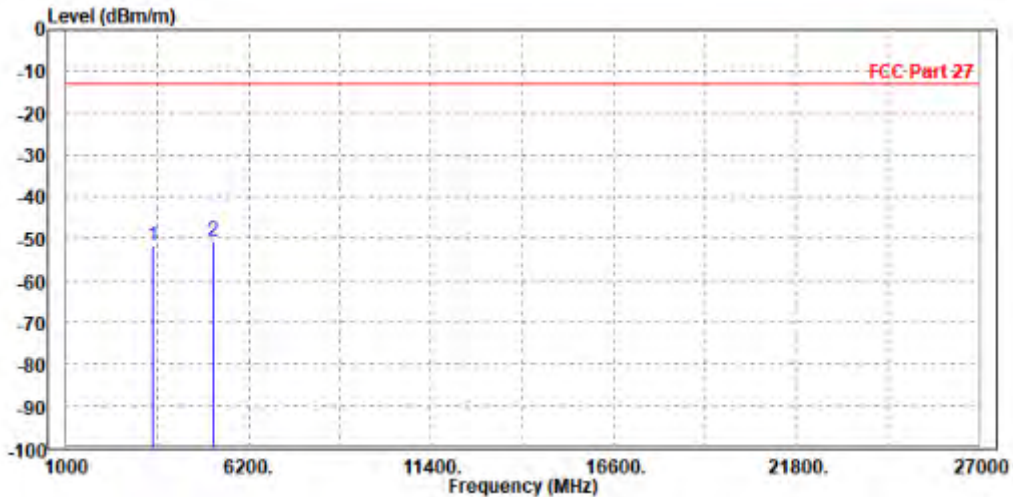




Test Report No.: W7L-P22110037RF06

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	3470.000	-51.62	-58.89	-13.00	-38.62	7.27	Peak	Vertical
2 PP	5197.500	-50.54	-60.99	-13.00	-37.54	10.45	Peak	Vertical





BUREAU VERITAS

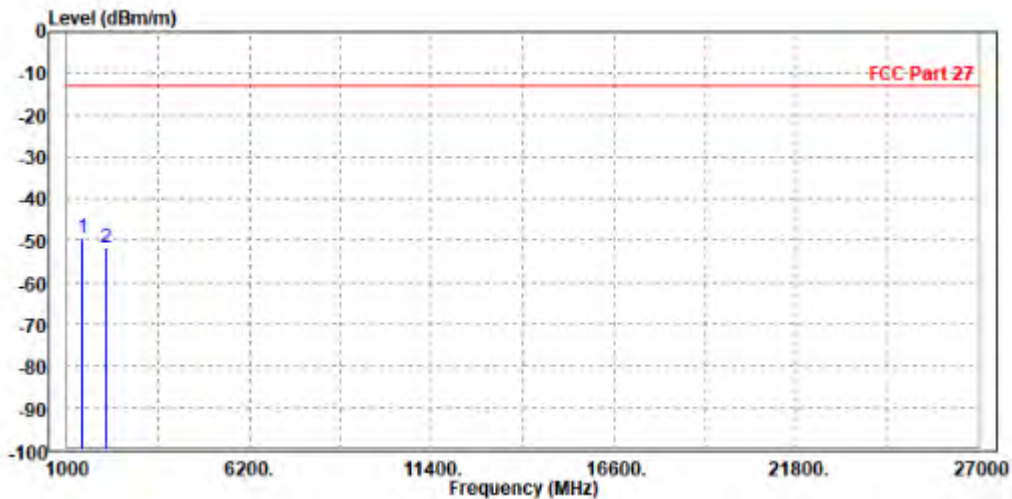
Test Report No.: W7L-P22110037RF06

LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1415.000	-49.51	-48.86	-13.00	-36.51	-0.65	Peak	Horizontal
2	2118.000	-51.62	-55.67	-13.00	-38.62	4.05	Peak	Horizontal

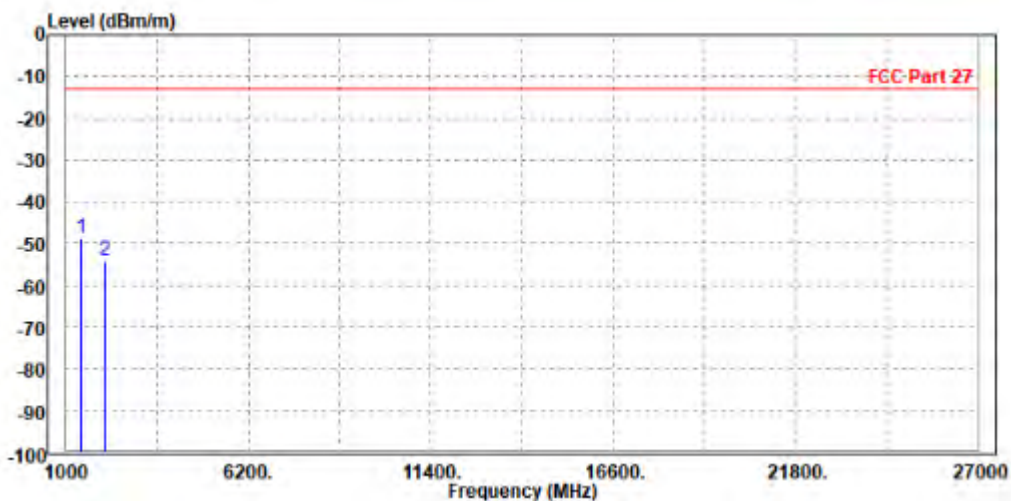




Test Report No.: W7L-P22110037RF06

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1416.000	-48.63	-48.23	-13.00	-35.63	-0.40	Peak	Vertical
2	2122.500	-53.98	-57.90	-13.00	-40.98	3.92	Peak	Vertical





BUREAU VERITAS

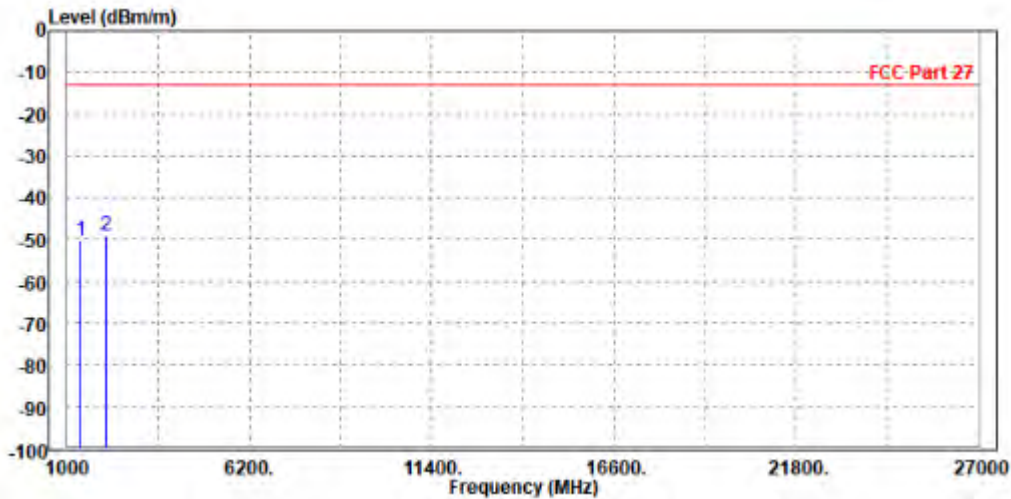
Test Report No.: W7L-P22110037RF06

CHANNEL BANDWIDTH: 3MHz / QPSK

CH230925

MODE	TX channel 23025	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	1390.000	-50.36	-49.65	-13.00	-37.36	-0.71	Peak	Horizontal
2 PP	2101.500	-49.02	-53.01	-13.00	-36.02	3.99	Peak	Horizontal

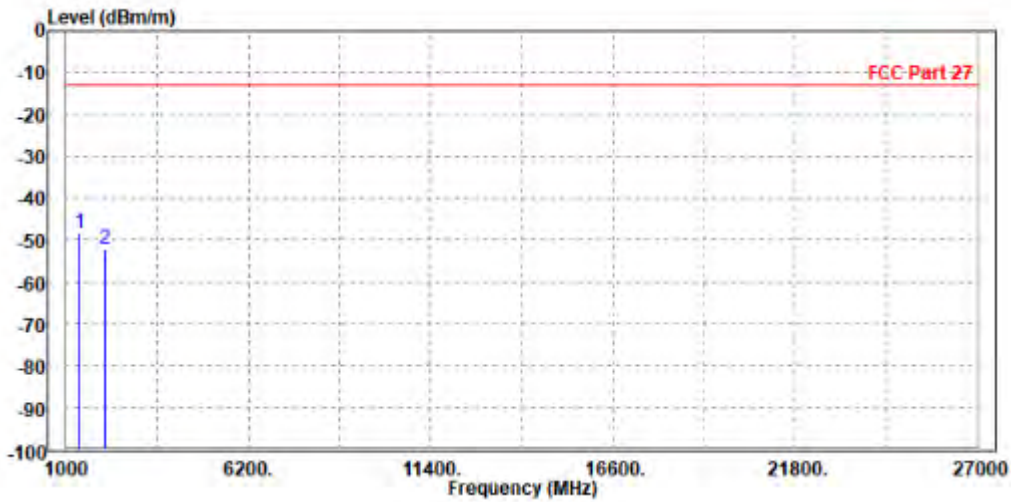




Test Report No.: W7L-P22110037RF06

MODE	TX channel 23025	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1401.000	-48.34	-47.87	-13.00	-35.34	-0.47	Peak	Vertical
2	2092.000	-52.03	-55.86	-13.00	-39.03	3.83	Peak	Vertical





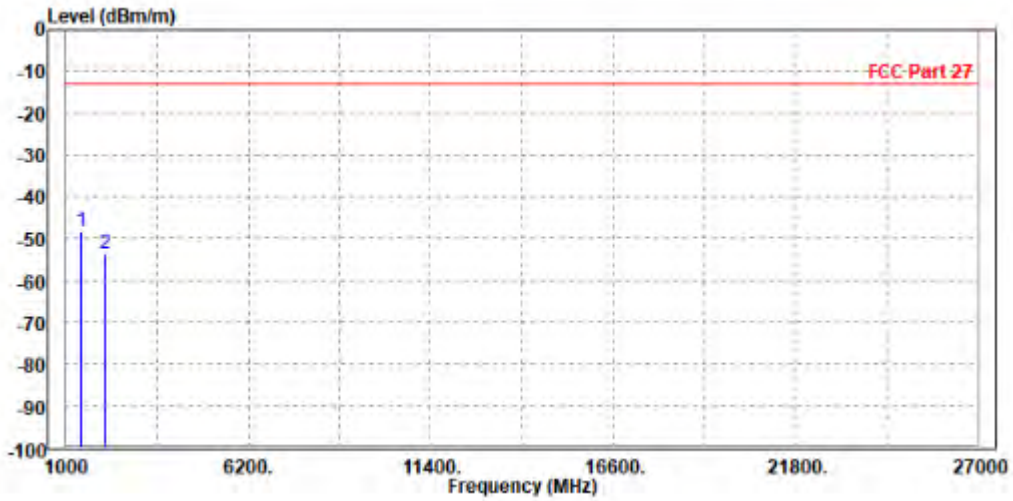
**BUREAU
VERITAS**

Test Report No.: W7L-P22110037RF06

CH23095

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1416.000	-48.38	-47.74	-13.00	-35.38	-0.64	Peak	Horizontal
2	2122.500	-53.62	-57.68	-13.00	-40.62	4.06	Peak	Horizontal

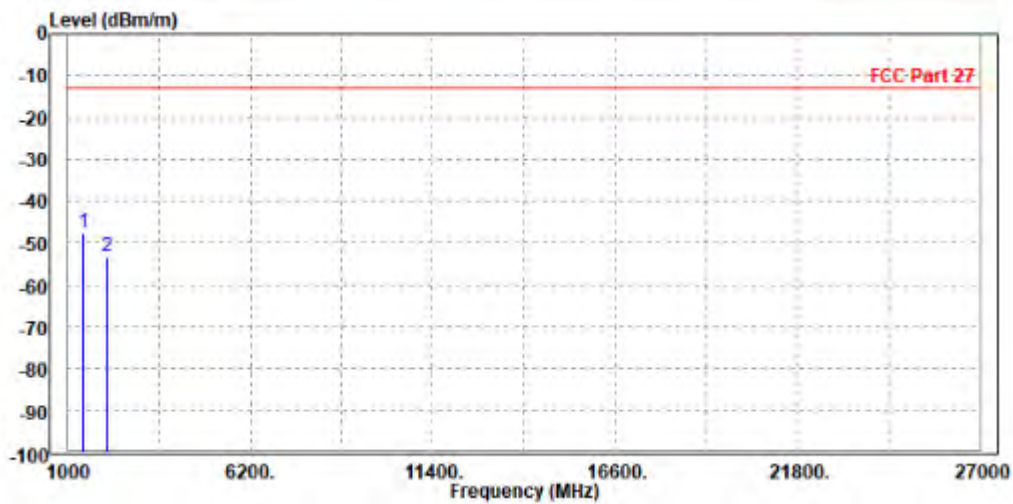




Test Report No.: W7L-P22110037RF06

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1415.000	-47.70	-47.29	-13.00	-34.70	-0.41	Peak	Vertical
2	2118.000	-53.37	-57.27	-13.00	-40.37	3.90	Peak	Vertical





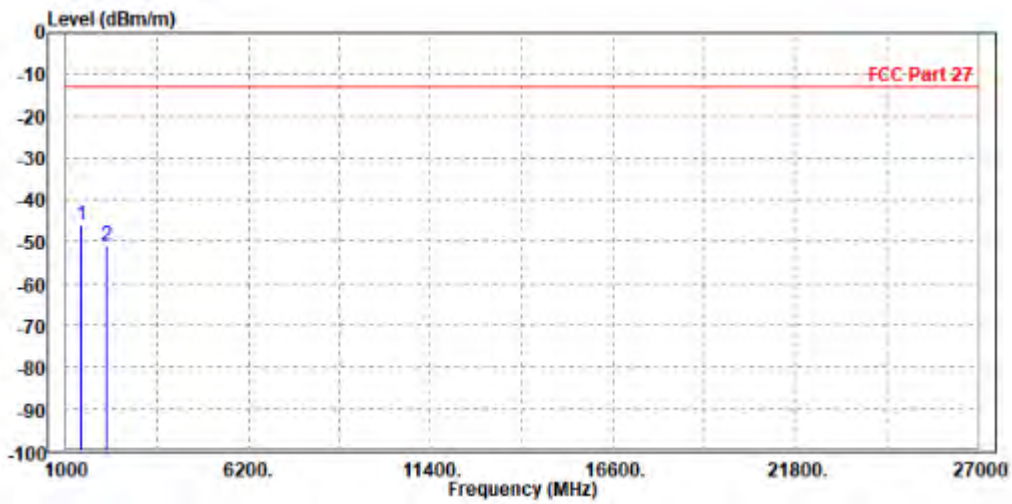
**BUREAU
VERITAS**

Test Report No.: W7L-P22110037RF06

CH23165

MODE	TX channel 23165	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	1429.000	-46.16	-45.55	-13.00	-33.16	-0.61	Peak	Horizontal
2		2144.000	-50.98	-55.12	-13.00	-37.98	4.14	Peak	Horizontal

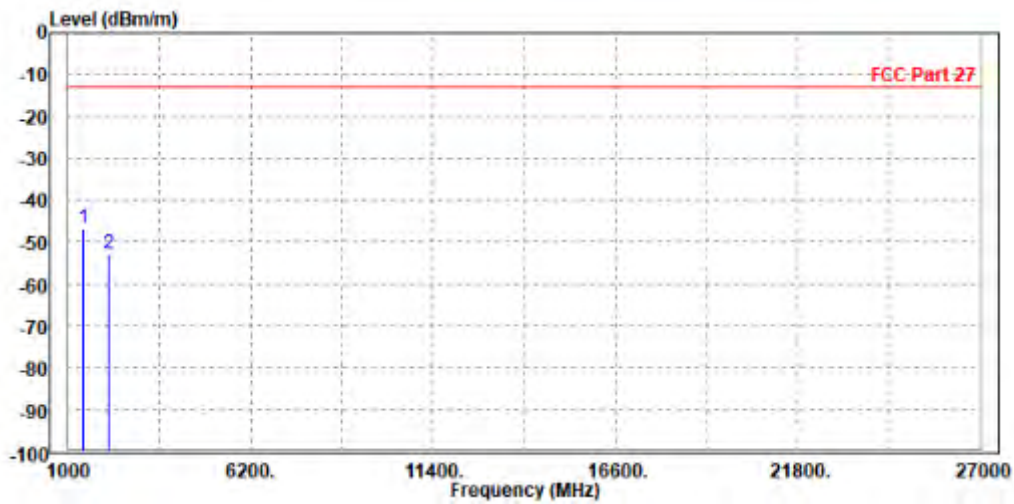




Test Report No.: W7L-P22110037RF06

MODE	TX channel 23165	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1416.000	-46.63	-46.23	-13.00	-33.63	-0.40	Peak	Vertical
2	2143.500	-52.71	-56.68	-13.00	-39.71	3.97	Peak	Vertical



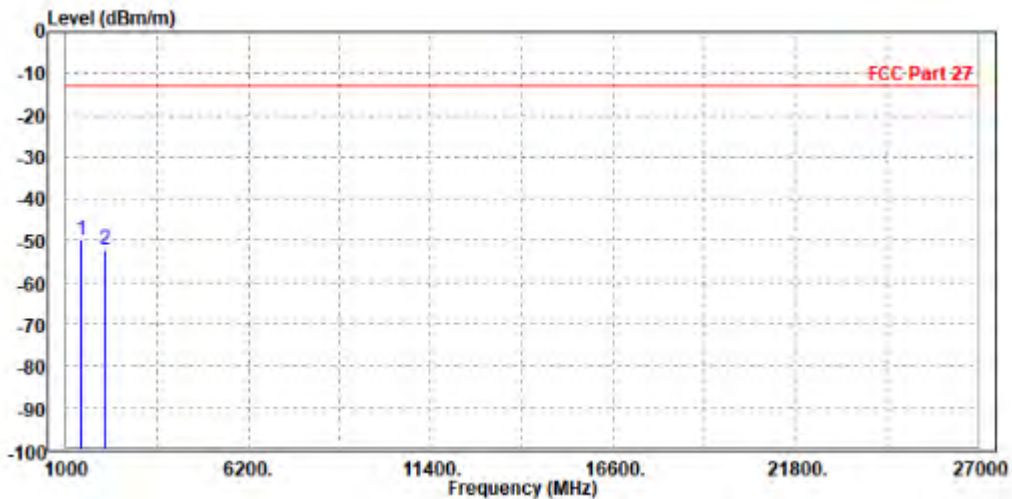


Test Report No.: W7L-P22110037RF06

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1415.000	-49.77	-49.12	-13.00	-36.77	-0.65	Peak	Horizontal
2 2118.000	-52.04	-56.09	-13.00	-39.04	4.05	Peak	Horizontal

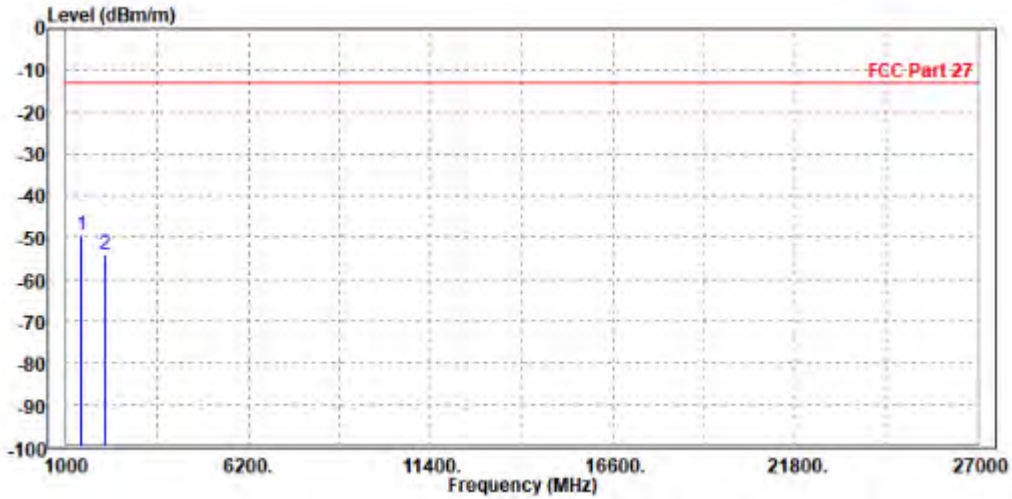




Test Report No.: W7L-P22110037RF06

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1416.000	-49.34	-48.94	-13.00	-36.34	-0.40	Peak	Vertical
2	2122.500	-53.83	-57.75	-13.00	-40.83	3.92	Peak	Vertical





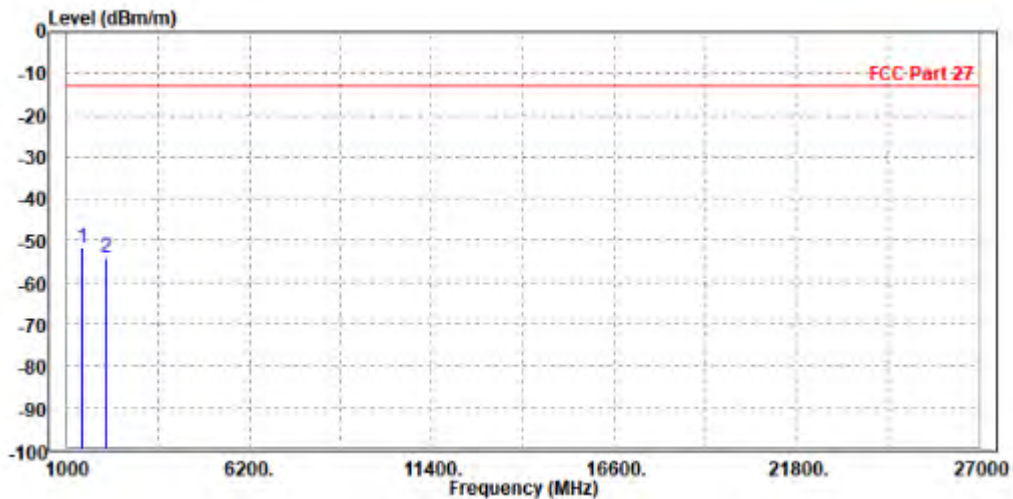
Test Report No.: W7L-P22110037RF06

CHANNEL BANDWIDTH: 10MHz / QPSK

CH23095

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1415.000	-51.55	-50.90	-13.00	-38.55	-0.65	Peak	Horizontal
2	2118.000	-53.97	-58.02	-13.00	-40.97	4.05	Peak	Horizontal

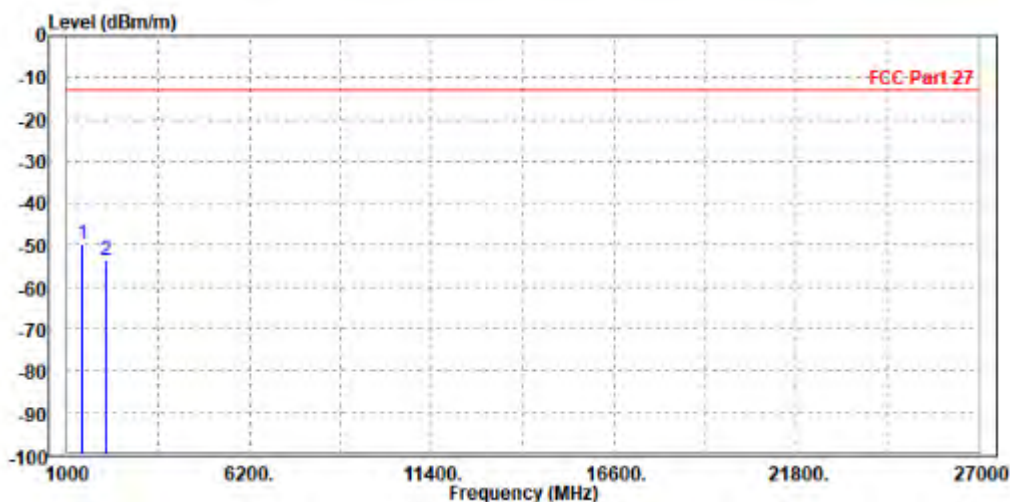




Test Report No.: W7L-P22110037RF06

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1416.000	-49.84	-49.44	-13.00	-36.84	-0.40	Peak	Vertical
2	2122.500	-53.55	-57.47	-13.00	-40.55	3.92	Peak	Vertical





Test Report No.: W7L-P22110037RF06

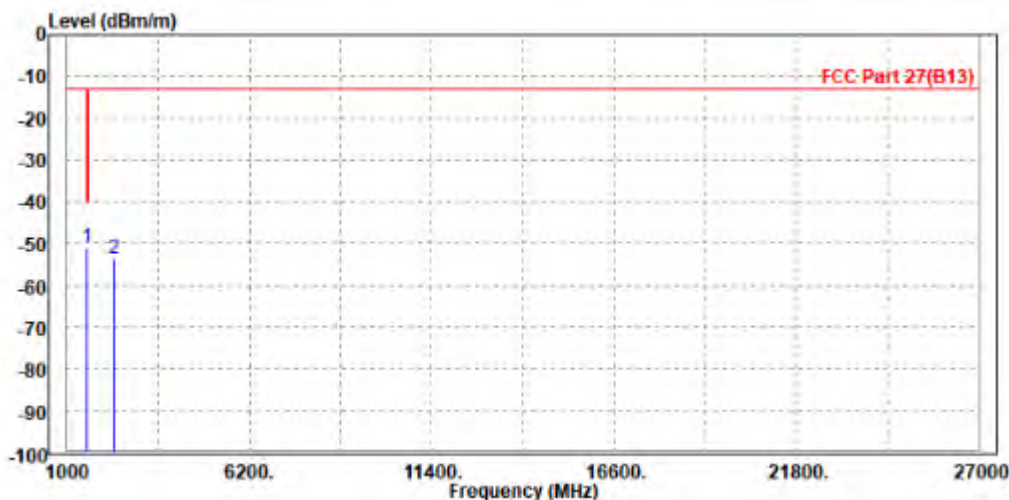
LTE B13

CHANNEL BANDWIDTH: 5MHz / QPSK

CH23205

MODE	TX channel 23205	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1572.000	-50.91	-51.07	-40.00	-10.91	0.16	Peak	Horizontal
2	2338.500	-53.51	-58.36	-13.00	-40.51	4.85	Peak	Horizontal

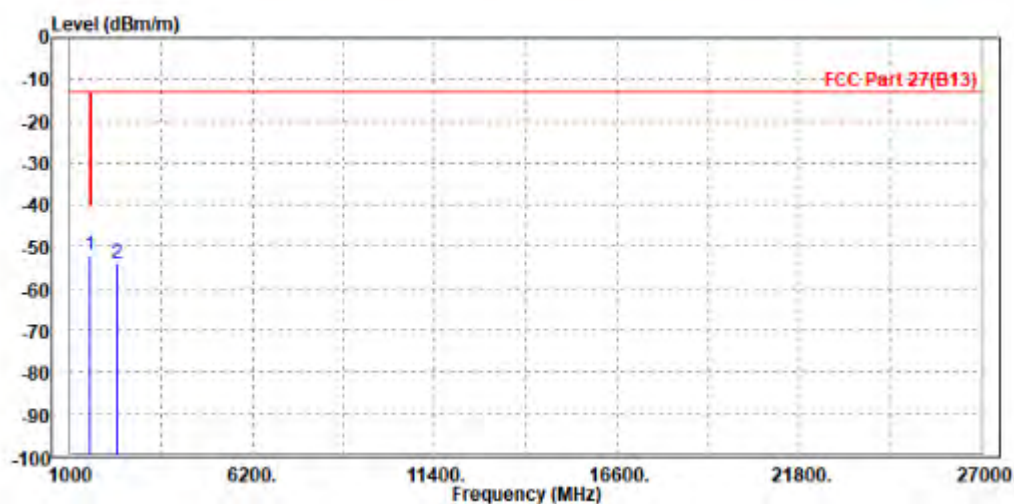




Test Report No.: W7L-P22110037RF06

MODE	TX channel 23205	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	1559.000	-52.15	-52.54	-40.00	-12.15	0.39	Peak	Vertical
2		2326.000	-54.13	-58.60	-13.00	-41.13	4.47	Peak	Vertical



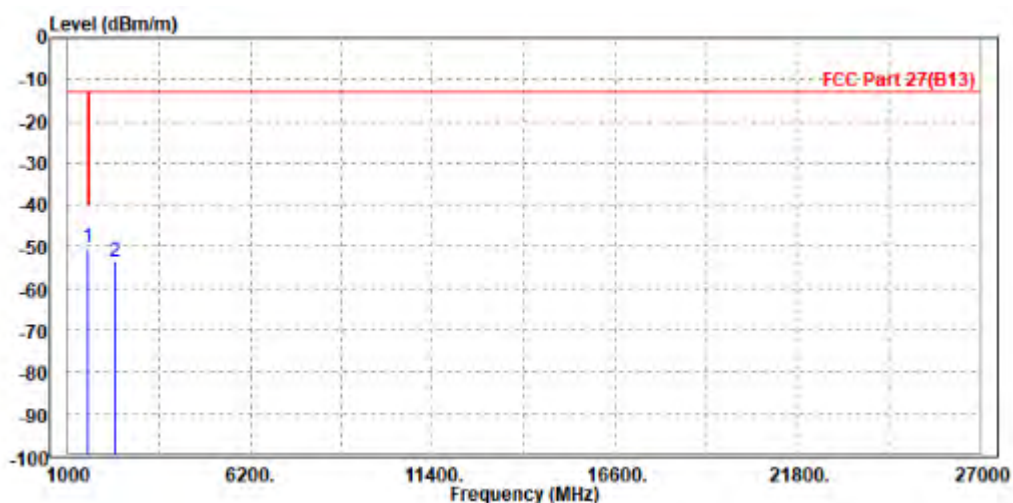


Test Report No.: W7L-P22110037RF06

CH23230

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1564.000	-50.02	-50.12	-40.00	-10.02	0.10	Peak	Horizontal
2	2352.000	-53.64	-58.54	-13.00	-40.64	4.90	Peak	Horizontal

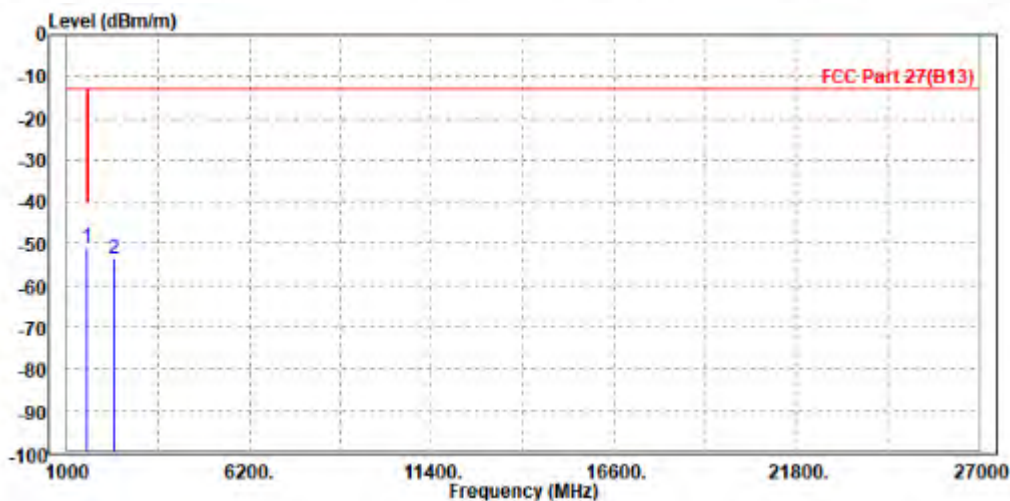




Test Report No.: W7L-P22110037RF06

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1572.000	-51.11	-51.60	-40.00	-11.11	0.49	Peak	Vertical
2	2346.000	-53.72	-58.24	-13.00	-40.72	4.52	Peak	Vertical



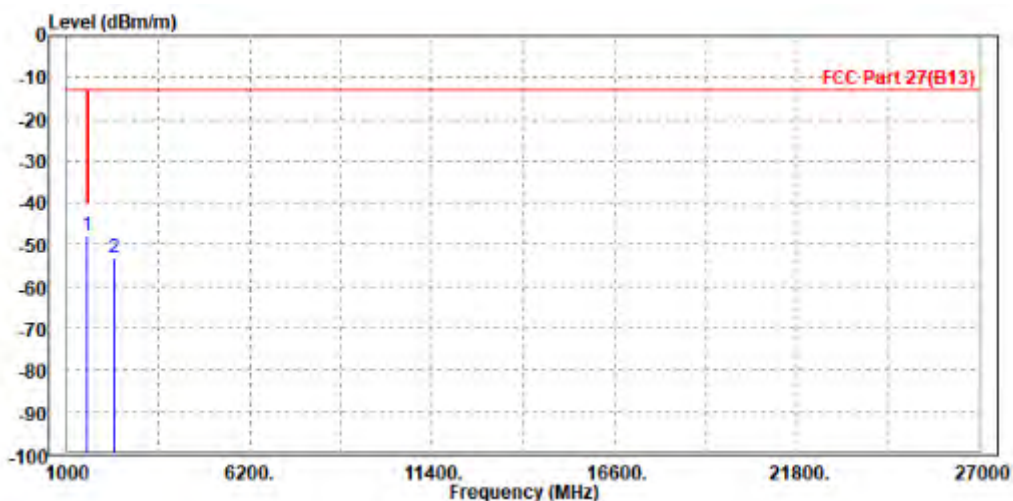


Test Report No.: W7L-P22110037RF06

CH23255

MODE	TX channel 23255	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1569.000	-48.07	-48.21	-40.00	-8.07	0.14	Peak	Horizontal
2	2352.000	-53.11	-58.01	-13.00	-40.11	4.90	Peak	Horizontal

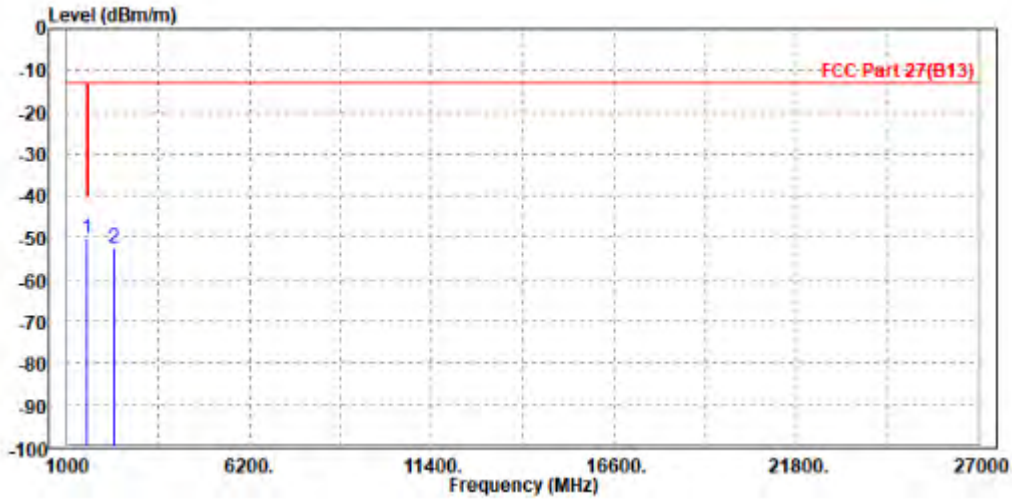




Test Report No.: W7L-P22110037RF06

MODE	TX channel 23255	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1572.000	-50.22	-50.71	-40.00	-10.22	0.49	Peak	Vertical
2	2353.500	-52.41	-56.95	-13.00	-39.41	4.54	Peak	Vertical



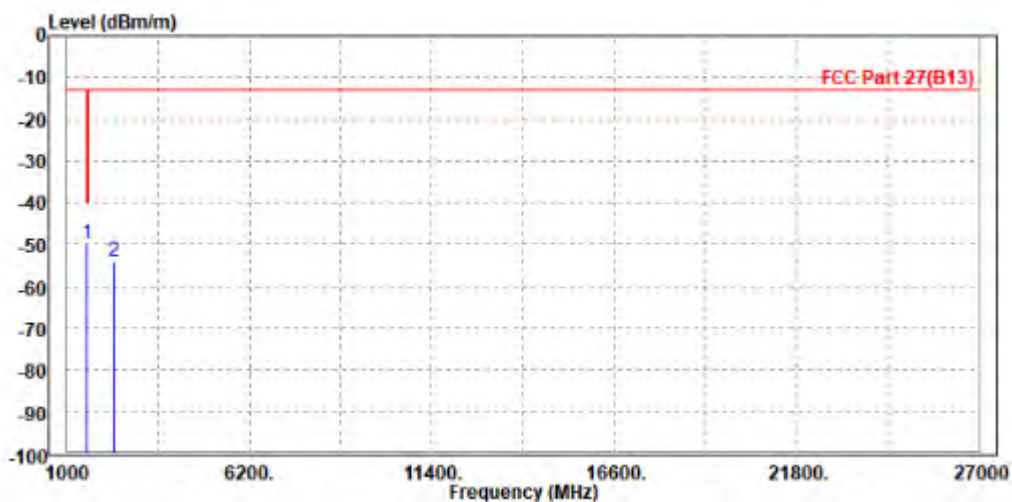


Test Report No.: W7L-P22110037RF06

CHANNEL BANDWIDTH: 10MHz /QPSK

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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 1572.000	-49.89	-50.05	-40.00	-9.89	0.16	Peak	Horizontal
2	2346.000	-53.86	-58.74	-13.00	-40.86	4.88	Peak	Horizontal

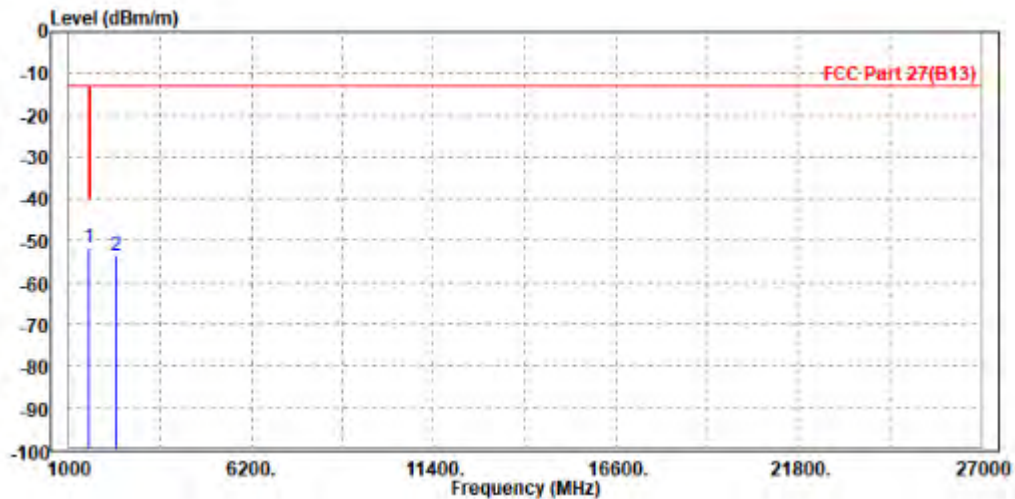




Test Report No.: W7L-P22110037RF06

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%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	-51.62	-52.05	-40.00	-11.62	0.43	Peak	Vertical
2	2352.000	-53.50	-58.04	-13.00	-40.50	4.54	Peak	Vertical

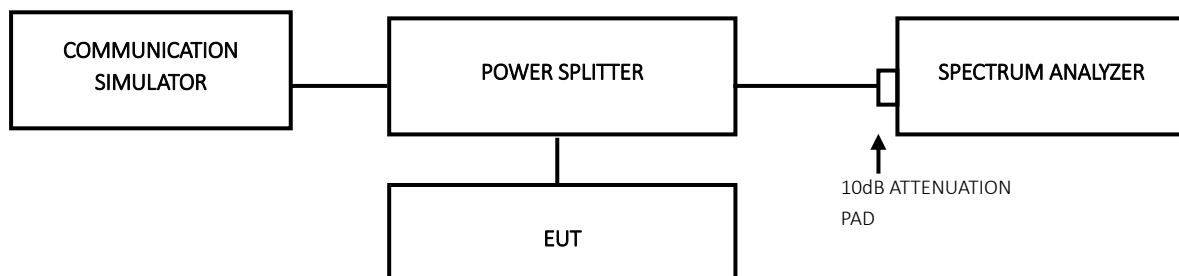


3.7 PEAK TO AVERAGE RATIO

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 \geq 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%.



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3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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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:

Shenzhen EMC/RF Lab:

Tel: +86-755-88696566

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-P22110037RF06

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.



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6 APPENDIX

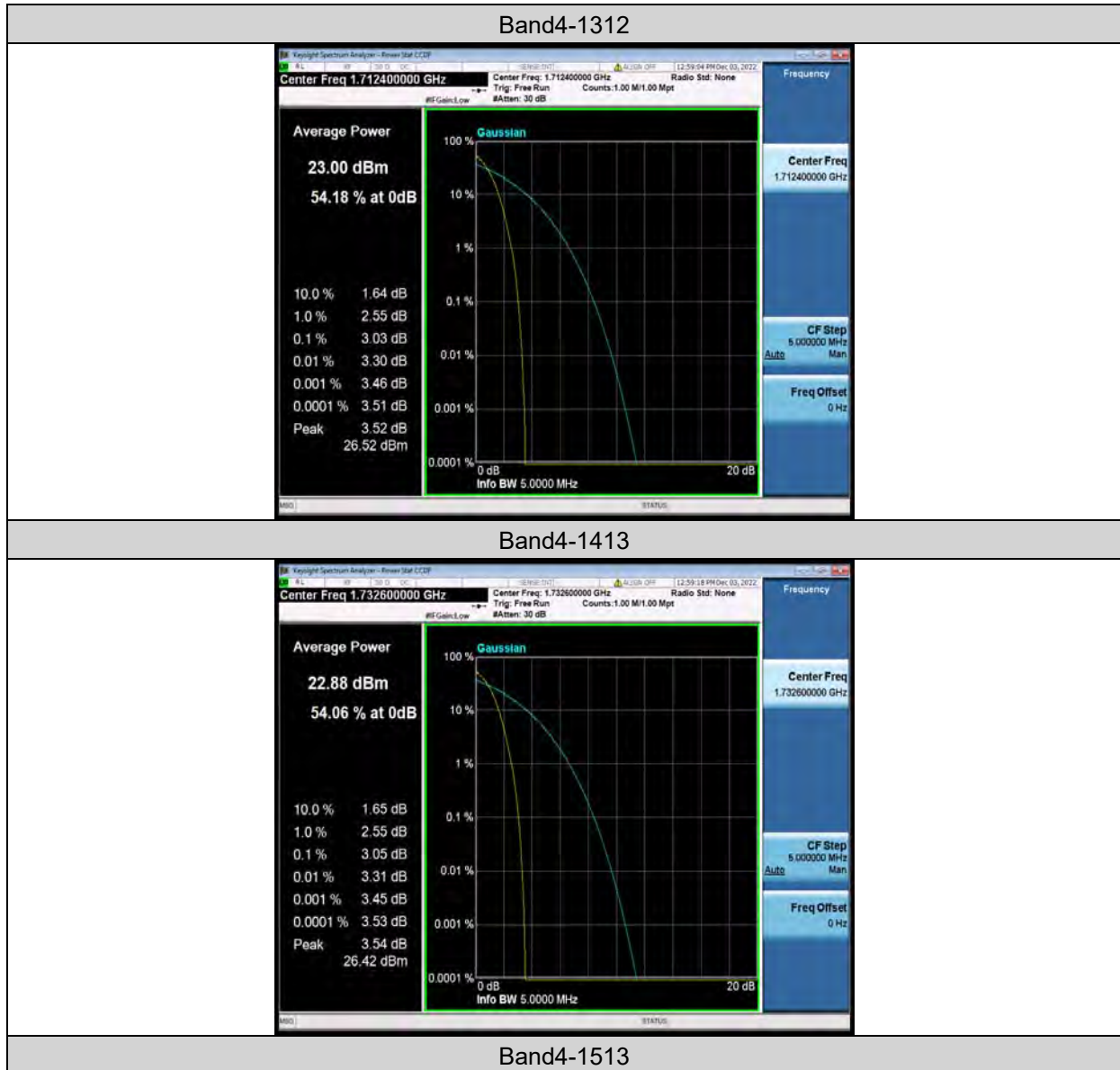
WCMDA BAND4

PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band4	1312	3.03	13	PASS
Band4	1413	3.05	13	PASS
Band4	1513	3.03	13	PASS

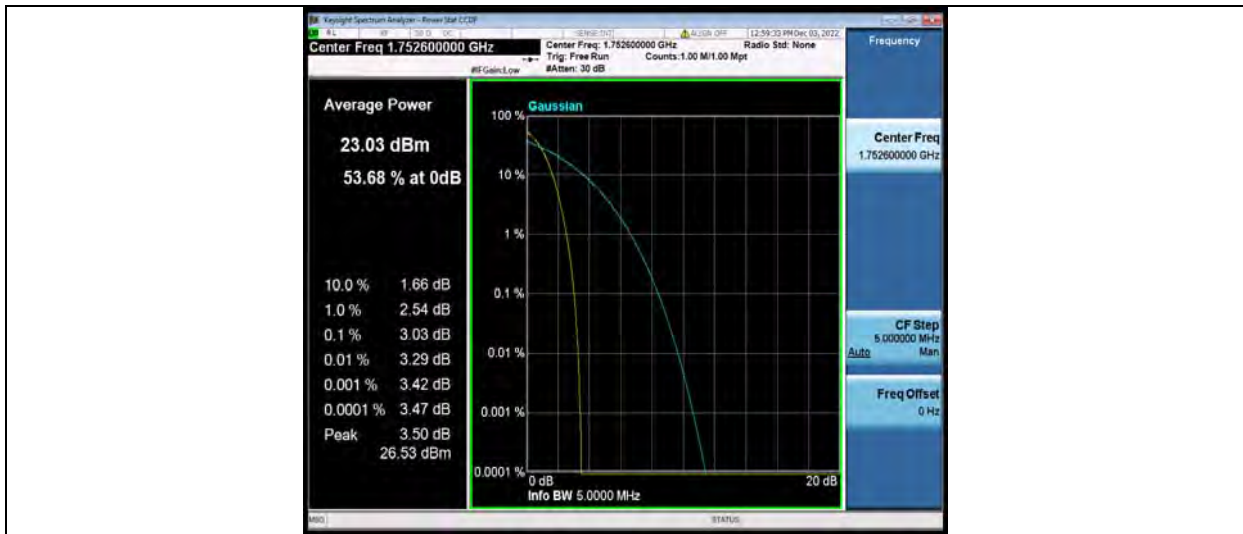
Test Graphs





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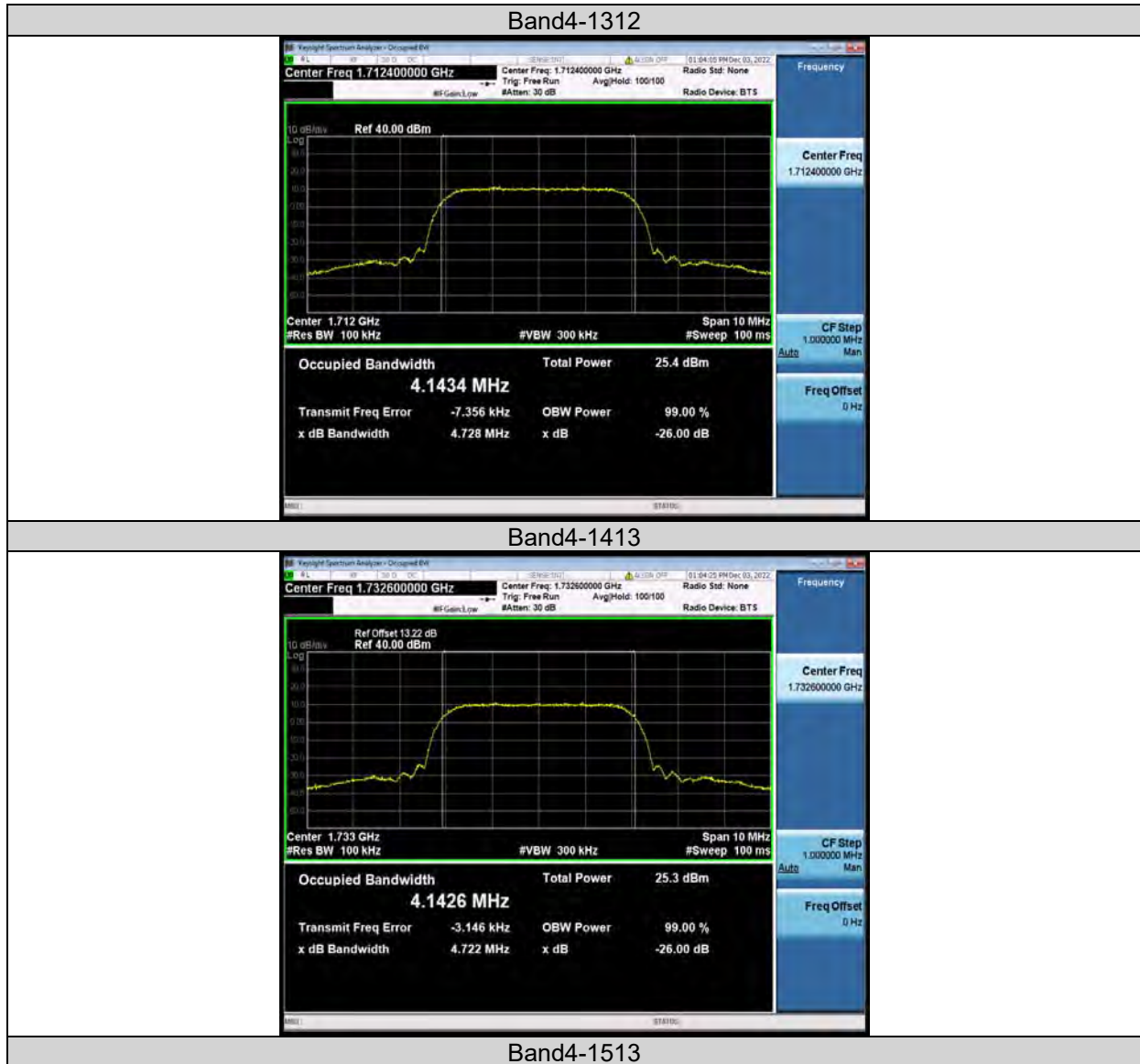
Test Report No.: W7L-P22110037RF06

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.1434	4.728	---	PASS
Band4	1413	4.1426	4.722	---	PASS
Band4	1513	4.1411	4.729	---	PASS

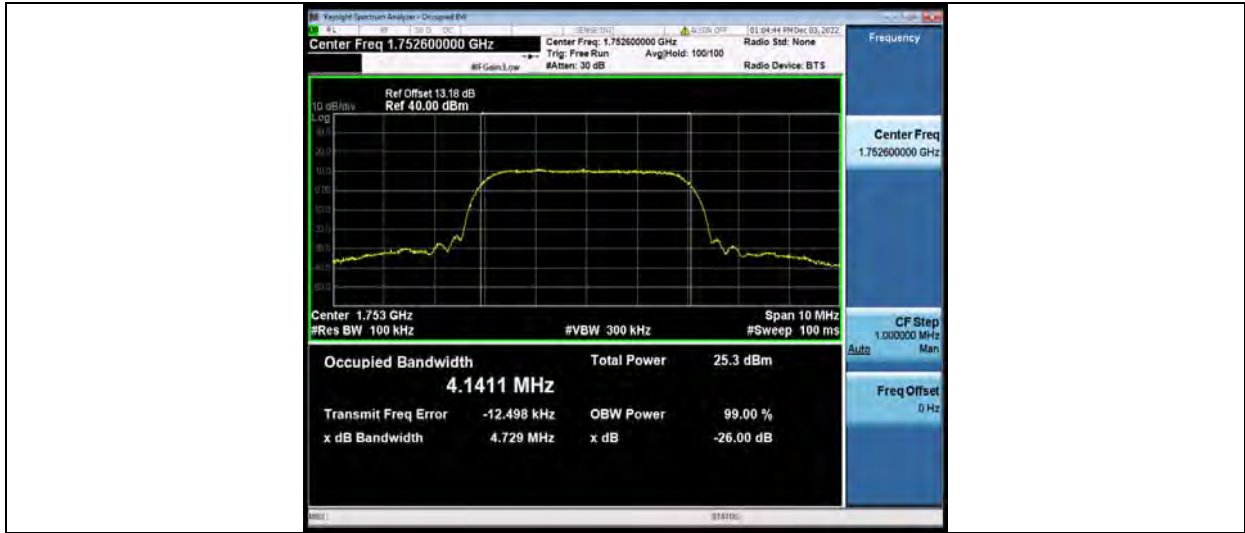
Test Graphs





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BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1710.00	-24.04	-13	PASS
Band4	1513	1755.00	-24.95	-13	PASS

Test Graphs





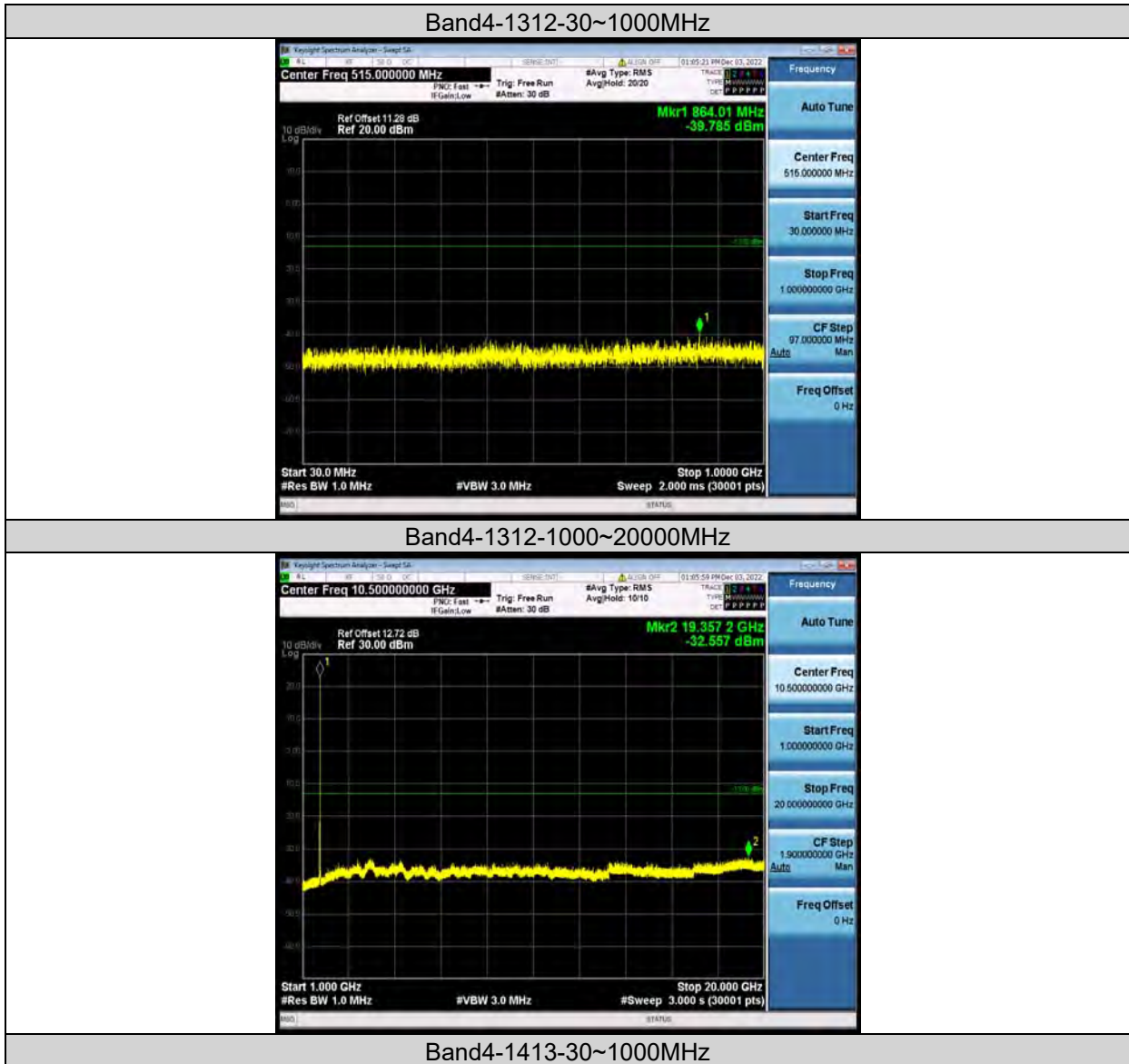
Test Report No.: W7L-P22110037RF06

CONDUCTED SPURIOUS EMISSION

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	30~1000MHz	864.01	-39.79	-13	PASS
Band4	1312	1000~20000MHz	19357.17	-32.56	-13	PASS
Band4	1413	30~1000MHz	912.44	-40.74	-13	PASS
Band4	1413	1000~20000MHz	19099.4	-32.23	-13	PASS
Band4	1513	30~1000MHz	855.44	-40.2	-13	PASS
Band4	1513	1000~20000MHz	5032.43	-32.44	-13	PASS

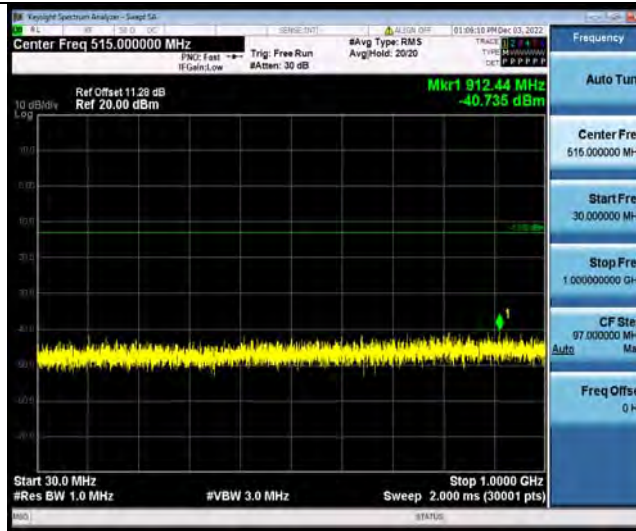
Test Graphs



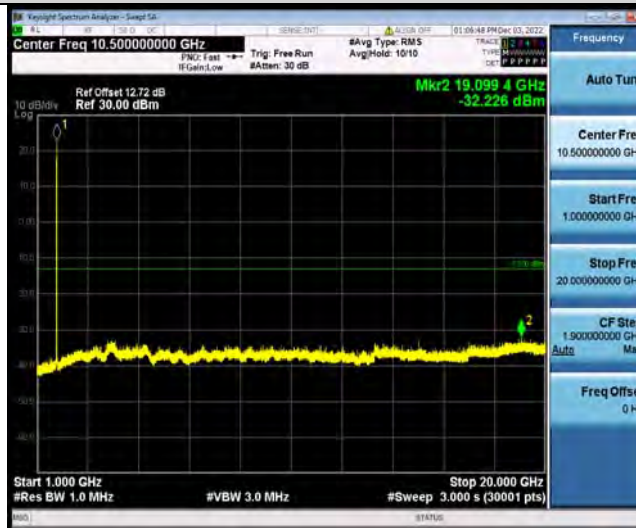


BUREAU VERITAS

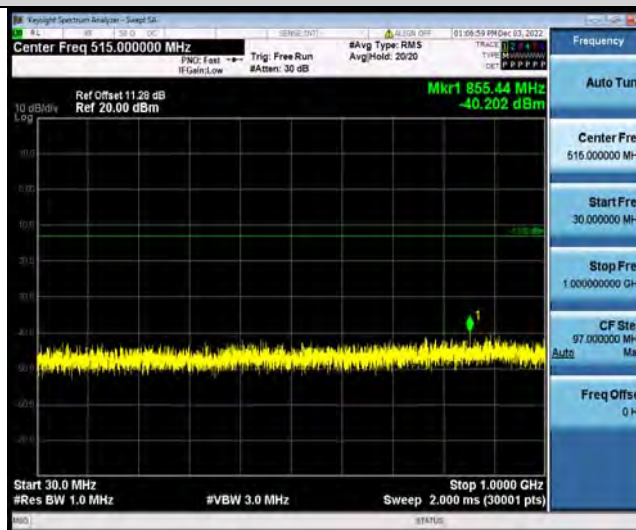
Test Report No.: W7L-P22110037RF06



Band4-1413-1000~20000MHz



Band4-1513-30~1000MHz



Band4-1513-1000~20000MHz



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Test Report No.: W7L-P22110037RF06





Test Report No.: W7L-P22110037RF06

FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VL	NT	14.84	0.008666	±2.5	PASS
Band4	1312	VN	NT	15.81	0.009233	±2.5	PASS
Band4	1312	VH	NT	13.48	0.007872	±2.5	PASS
Band4	1413	VL	NT	-1.97	-0.001137	±2.5	PASS
Band4	1413	VN	NT	-1.85	-0.001068	±2.5	PASS
Band4	1413	VH	NT	-1.79	-0.001033	±2.5	PASS
Band4	1513	VL	NT	-11.25	-0.006419	±2.5	PASS
Band4	1513	VN	NT	-11.22	-0.006402	±2.5	PASS
Band4	1513	VH	NT	-10.75	-0.006134	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	13.10	0.007650	±2.5	PASS
Band4	1312	NV	-20	12.67	0.007399	±2.5	PASS
Band4	1312	NV	0	11.97	0.006990	±2.5	PASS
Band4	1312	NV	10	11.46	0.006692	±2.5	PASS
Band4	1312	NV	20	11.01	0.006430	±2.5	PASS
Band4	1413	NV	-30	-2.22	-0.001281	±2.5	PASS
Band4	1413	NV	-20	-2.54	-0.001466	±2.5	PASS
Band4	1413	NV	0	-1.78	-0.001027	±2.5	PASS
Band4	1413	NV	10	-2.09	-0.001206	±2.5	PASS
Band4	1413	NV	20	-2.43	-0.001403	±2.5	PASS
Band4	1513	NV	-30	-11.08	-0.006322	±2.5	PASS
Band4	1513	NV	-20	-10.98	-0.006265	±2.5	PASS
Band4	1513	NV	0	-11.16	-0.006368	±2.5	PASS
Band4	1513	NV	10	-11.00	-0.006276	±2.5	PASS
Band4	1513	NV	20	-11.07	-0.006316	±2.5	PASS



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LTE BAND4

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	4.76	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	5.20	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	4.85	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.23	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	4.73	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	5.15	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	5.74	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	6.07	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	5.79	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	6.15	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	5.69	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	6.14	13	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	6.67	13	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	6.76	13	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	6.61	13	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	6.86	13	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	6.51	13	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	6.46	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	4.80	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	5.21	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	4.83	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.23	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	4.72	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	5.17	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	5.72	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	6.08	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	5.67	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	6.21	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	5.63	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	6.06	13	PASS
Band4	3MHz	64QAM	19965	1RB#0	6.46	13	PASS
Band4	3MHz	64QAM	19965	15RB#0	6.71	13	PASS
Band4	3MHz	64QAM	20175	1RB#0	6.38	13	PASS
Band4	3MHz	64QAM	20175	15RB#0	6.72	13	PASS
Band4	3MHz	64QAM	20385	1RB#0	6.57	13	PASS
Band4	3MHz	64QAM	20385	15RB#0	6.73	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	4.69	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	5.14	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	4.73	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.20	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	4.67	13	PASS



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Band4	5MHz	QPSK	20375	25RB#0	5.08	13	PASS
Band4	5MHz	16QAM	19975	1RB#0	5.60	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	6.03	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	5.74	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	6.03	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	5.46	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	5.97	13	PASS
Band4	5MHz	64QAM	19975	1RB#0	6.46	13	PASS
Band4	5MHz	64QAM	19975	25RB#0	6.65	13	PASS
Band4	5MHz	64QAM	20175	1RB#0	6.39	13	PASS
Band4	5MHz	64QAM	20175	25RB#0	6.64	13	PASS
Band4	5MHz	64QAM	20375	1RB#0	6.53	13	PASS
Band4	5MHz	64QAM	20375	25RB#0	6.64	13	PASS
Band4	10MHz	QPSK	20000	1RB#0	4.67	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	5.04	13	PASS
Band4	10MHz	QPSK	20175	1RB#0	4.68	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.10	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	4.66	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.09	13	PASS
Band4	10MHz	16QAM	20000	1RB#0	5.50	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	5.95	13	PASS
Band4	10MHz	16QAM	20175	1RB#0	5.61	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	6.01	13	PASS
Band4	10MHz	16QAM	20350	1RB#0	5.57	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	5.94	13	PASS
Band4	10MHz	64QAM	20000	1RB#0	6.26	13	PASS
Band4	10MHz	64QAM	20000	50RB#0	6.51	13	PASS
Band4	10MHz	64QAM	20175	1RB#0	6.41	13	PASS
Band4	10MHz	64QAM	20175	50RB#0	6.56	13	PASS
Band4	10MHz	64QAM	20350	1RB#0	6.58	13	PASS
Band4	10MHz	64QAM	20350	50RB#0	6.56	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	4.59	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	5.27	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	4.67	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	5.35	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	4.66	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	5.30	13	PASS
Band4	15MHz	16QAM	20025	1RB#0	5.53	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	6.04	13	PASS
Band4	15MHz	16QAM	20175	1RB#0	5.56	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	6.11	13	PASS
Band4	15MHz	16QAM	20325	1RB#0	5.52	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	6.12	13	PASS
Band4	15MHz	64QAM	20025	1RB#0	6.32	13	PASS
Band4	15MHz	64QAM	20025	75RB#0	6.56	13	PASS
Band4	15MHz	64QAM	20175	1RB#0	6.44	13	PASS
Band4	15MHz	64QAM	20175	75RB#0	6.62	13	PASS
Band4	15MHz	64QAM	20325	1RB#0	6.42	13	PASS
Band4	15MHz	64QAM	20325	75RB#0	6.64	13	PASS
Band4	20MHz	QPSK	20050	1RB#0	4.63	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.16	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	4.62	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.18	13	PASS



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Band4	20MHz	QPSK	20300	1RB#0	4.69	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.14	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	5.58	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.98	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	5.42	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.03	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	5.77	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.02	13	PASS
Band4	20MHz	64QAM	20050	1RB#0	6.57	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.56	13	PASS
Band4	20MHz	64QAM	20175	1RB#0	6.55	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.61	13	PASS
Band4	20MHz	64QAM	20300	1RB#0	6.62	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.59	13	PASS

Test Graphs





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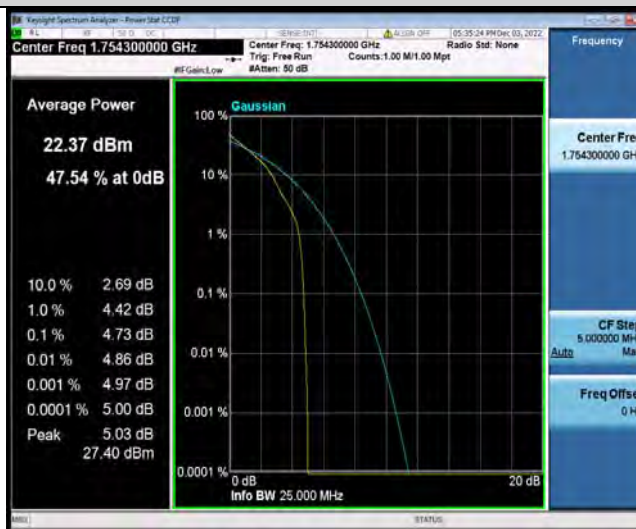
Test Report No.: W7L-P22110037RF06



Band4-1.4MHz-QPSK-20175-6RB#0



Band4-1.4MHz-QPSK-20393-1RB#0



Band4-1.4MHz-QPSK-20393-6RB#0



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Test Report No.: W7L-P22110037RF06



Band4-1.4MHz-16QAM-19957-1RB#0



Band4-1.4MHz-16QAM-19957-6RB#0

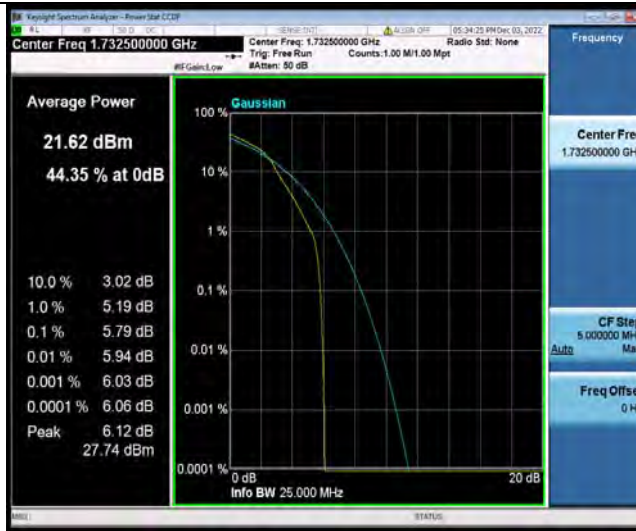


Band4-1.4MHz-16QAM-20175-1RB#0



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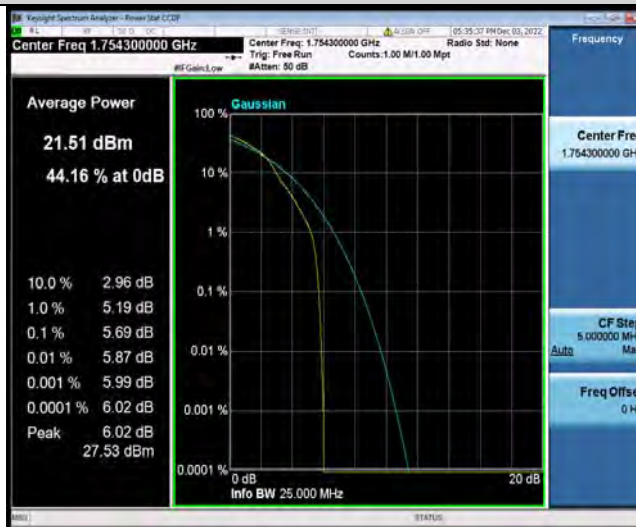
Test Report No.: W7L-P22110037RF06



Band4-1.4MHz-16QAM-20175-6RB#0



Band4-1.4MHz-16QAM-20393-1RB#0



Band4-1.4MHz-16QAM-20393-6RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-1.4MHz-64QAM-19957-1RB#0



Band4-1.4MHz-64QAM-19957-6RB#0

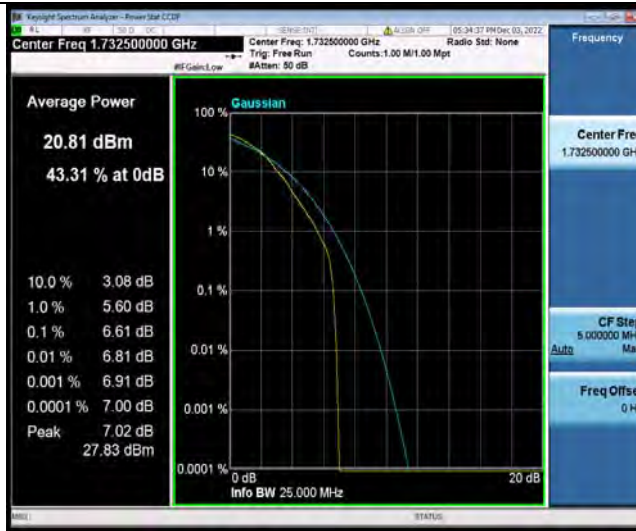


Band4-1.4MHz-64QAM-20175-1RB#0

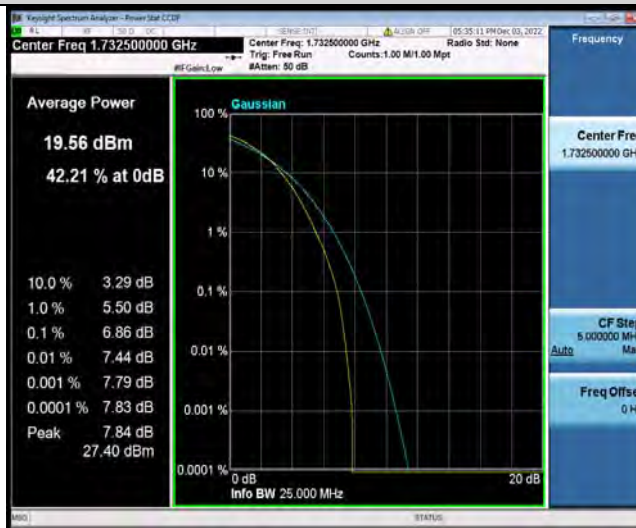


BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-1.4MHz-64QAM-20175-6RB#0



Band4-1.4MHz-64QAM-20393-1RB#0



Band4-1.4MHz-64QAM-20393-6RB#0



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VERITAS

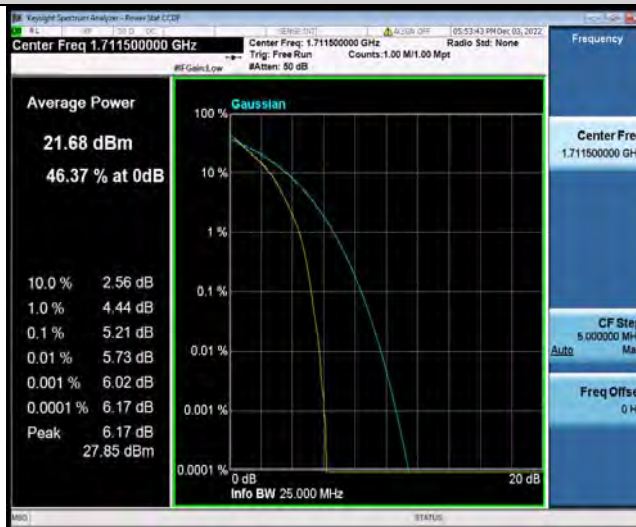
Test Report No.: W7L-P22110037RF06



Band4-3MHz-QPSK-19965-1RB#0



Band4-3MHz-QPSK-19965-15RB#0



Band4-3MHz-QPSK-20175-1RB#0

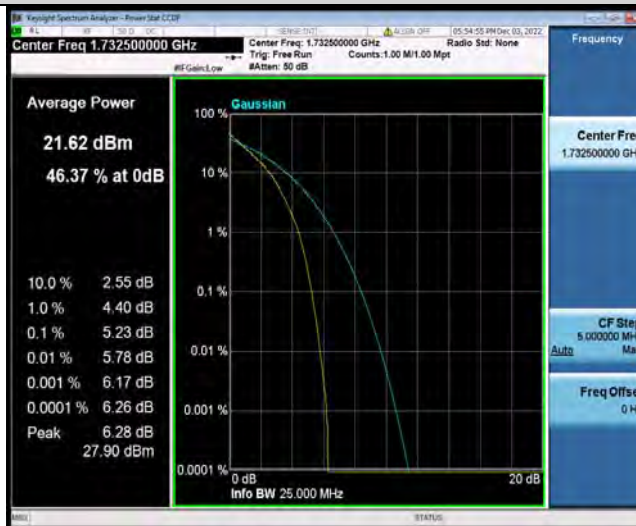


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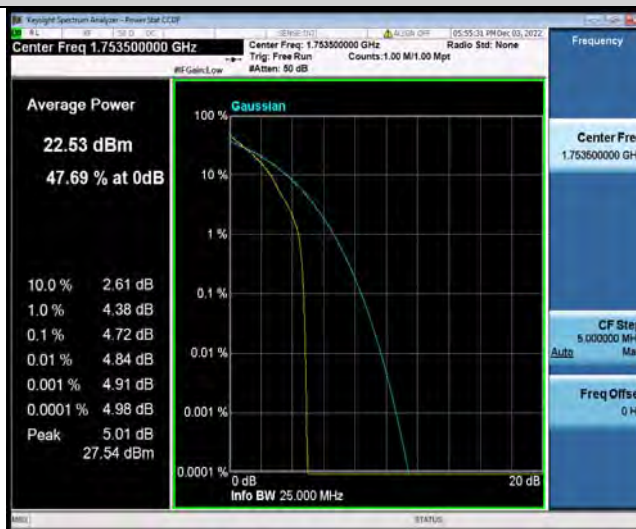
Test Report No.: W7L-P22110037RF06



Band4-3MHz-QPSK-20175-15RB#0



Band4-3MHz-QPSK-20385-1RB#0



Band4-3MHz-QPSK-20385-15RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-3MHz-16QAM-19965-1RB#0



Band4-3MHz-16QAM-19965-15RB#0



Band4-3MHz-16QAM-20175-1RB#0



BUREAU
VERITAS

Test Report No.: W7L-P22110037RF06



Band4-3MHz-16QAM-20175-15RB#0



Band4-3MHz-16QAM-20385-1RB#0



Band4-3MHz-16QAM-20385-15RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-3MHz-64QAM-19965-1RB#0



Band4-3MHz-64QAM-19965-15RB#0

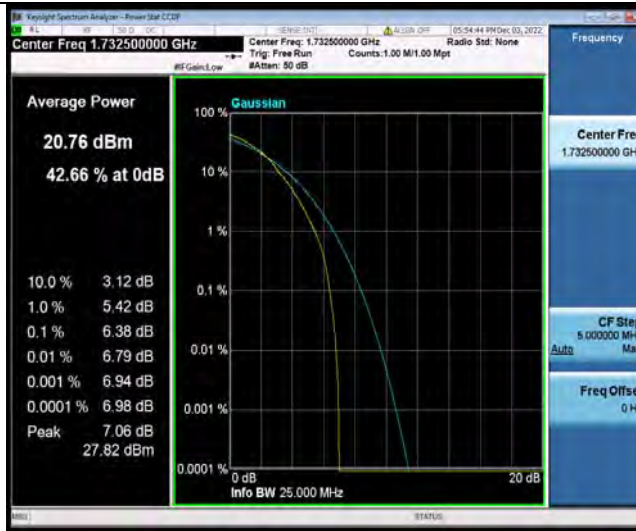


Band4-3MHz-64QAM-20175-1RB#0

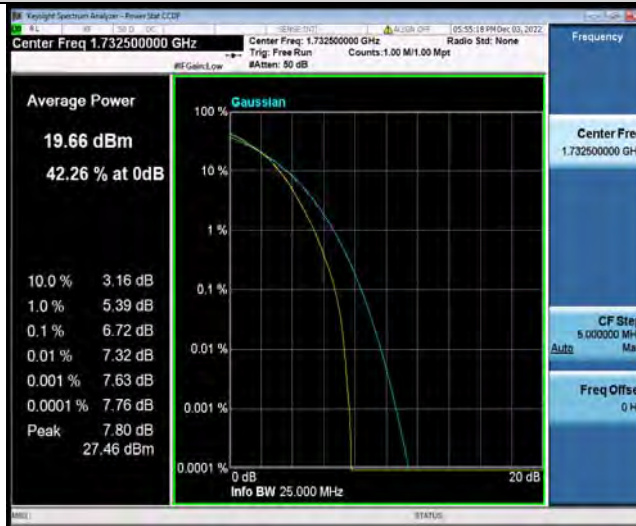


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Test Report No.: W7L-P22110037RF06



Band4-3MHz-64QAM-20175-15RB#0



Band4-3MHz-64QAM-20385-1RB#0

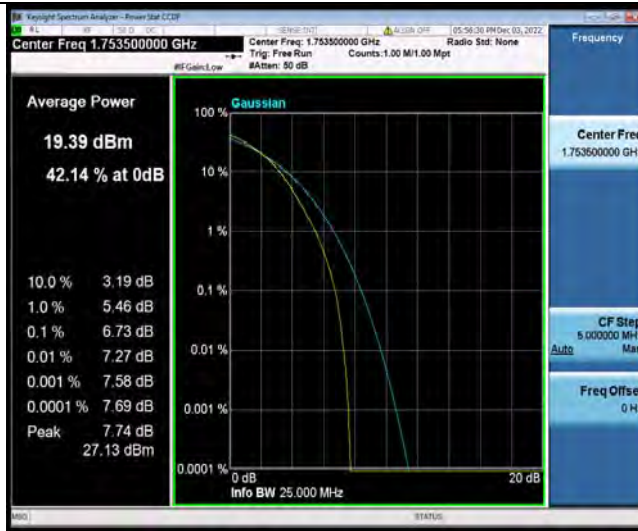


Band4-3MHz-64QAM-20385-15RB#0



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Test Report No.: W7L-P22110037RF06



Band4-5MHz-QPSK-19975-1RB#0



Band4-5MHz-QPSK-19975-25RB#0



Band4-5MHz-QPSK-20175-1RB#0



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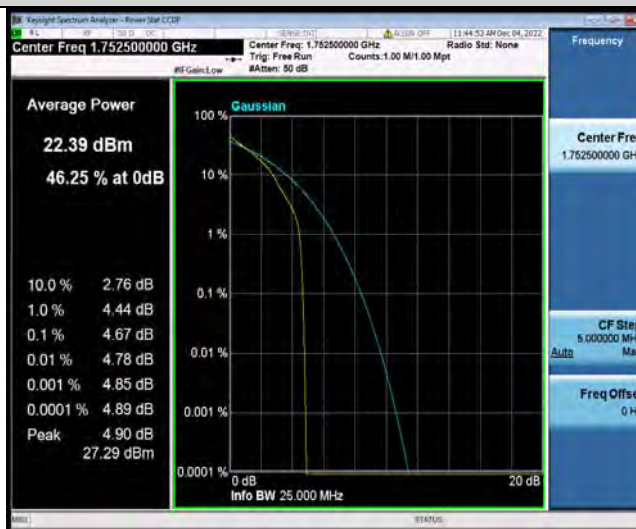
Test Report No.: W7L-P22110037RF06



Band4-5MHz-QPSK-20175-25RB#0



Band4-5MHz-QPSK-20375-1RB#0



Band4-5MHz-QPSK-20375-25RB#0



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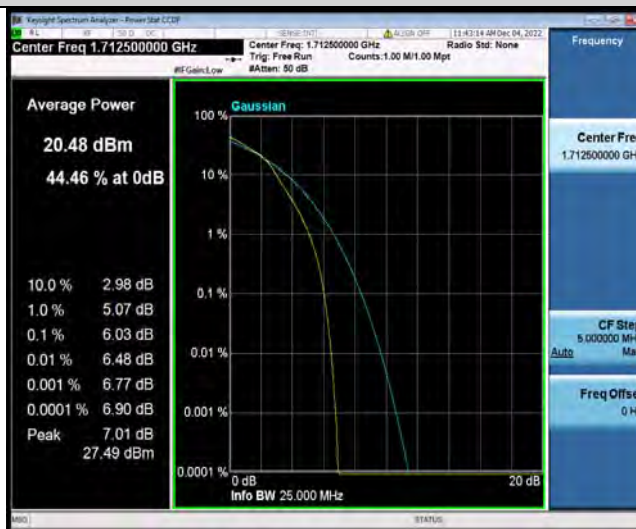
Test Report No.: W7L-P22110037RF06



Band4-5MHz-16QAM-19975-1RB#0



Band4-5MHz-16QAM-19975-25RB#0



Band4-5MHz-16QAM-20175-1RB#0



BUREAU VERITAS

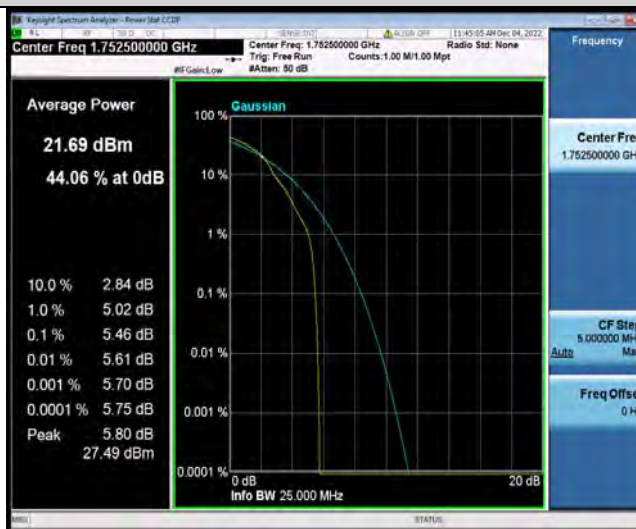
Test Report No.: W7L-P22110037RF06



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Band4-5MHz-16QAM-20375-1RB#0

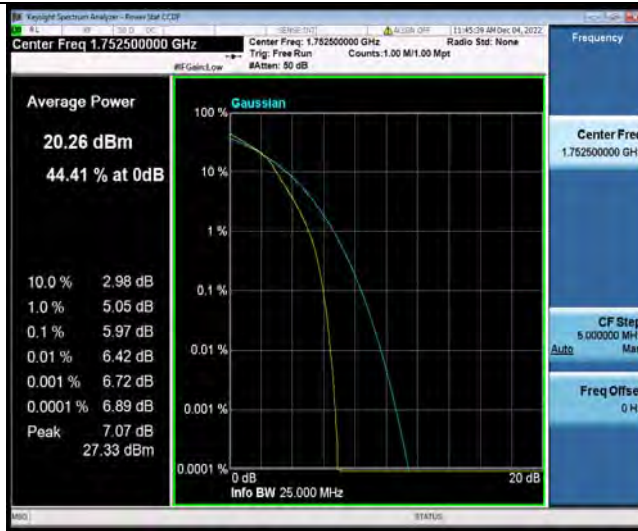


Band4-5MHz-16QAM-20375-25RB#0



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Test Report No.: W7L-P22110037RF06



Band4-5MHz-64QAM-19975-1RB#0



Band4-5MHz-64QAM-19975-25RB#0



Band4-5MHz-64QAM-20175-1RB#0

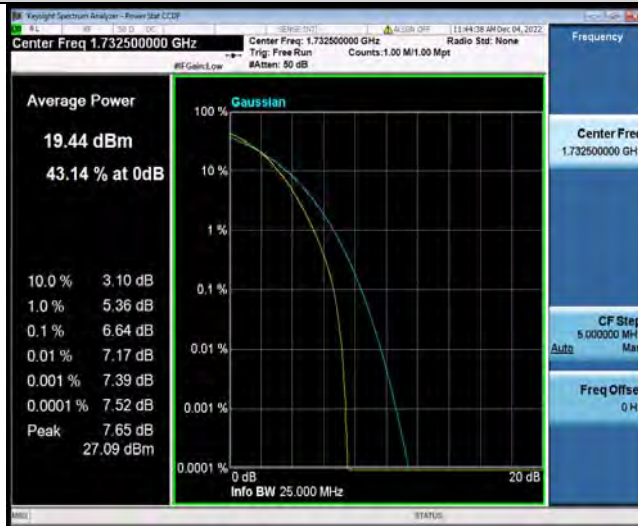


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Test Report No.: W7L-P22110037RF06



Band4-5MHz-64QAM-20175-25RB#0



Band4-5MHz-64QAM-20375-1RB#0



Band4-5MHz-64QAM-20375-25RB#0



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VERITAS

Test Report No.: W7L-P22110037RF06



Band4-10MHz-QPSK-20000-1RB#0



Band4-10MHz-QPSK-20000-50RB#0



Band4-10MHz-QPSK-20175-1RB#0



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Test Report No.: W7L-P22110037RF06



Band4-10MHz-QPSK-20175-50RB#0



Band4-10MHz-QPSK-20350-1RB#0

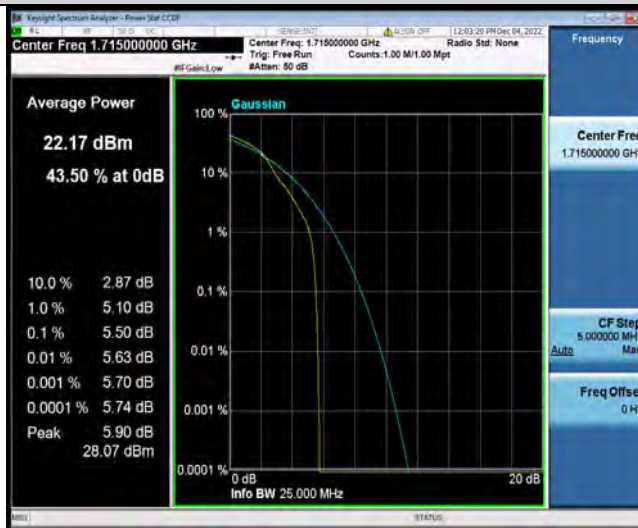


Band4-10MHz-QPSK-20350-50RB#0



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Test Report No.: W7L-P22110037RF06





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Test Report No.: W7L-P22110037RF06



Band4-10MHz-16QAM-20175-50RB#0



Band4-10MHz-16QAM-20350-1RB#0



Band4-10MHz-16QAM-20350-50RB#0



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VERITAS

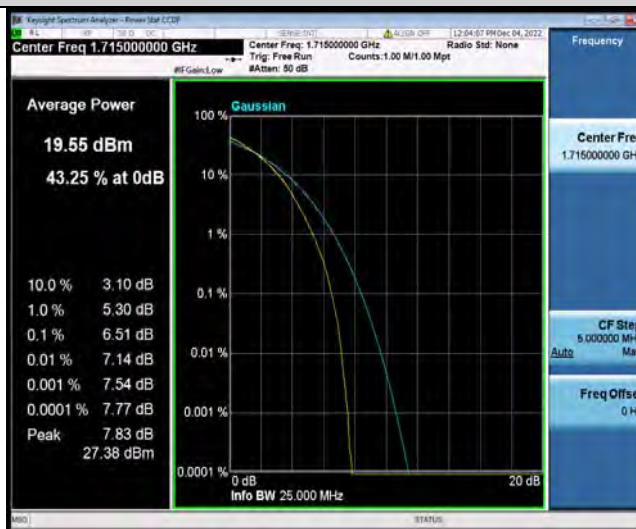
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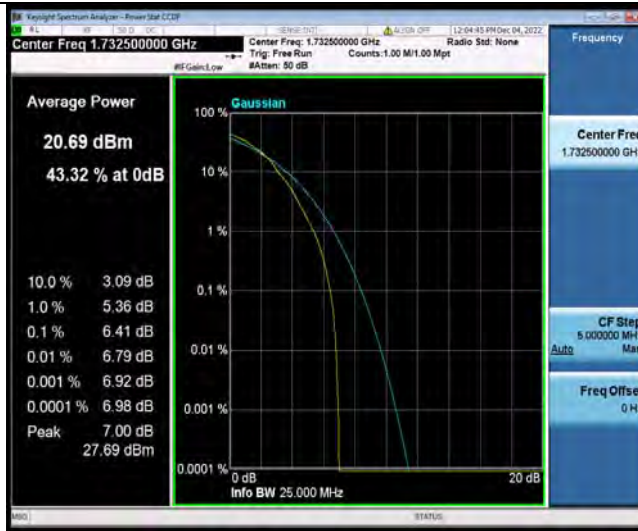


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BUREAU VERITAS

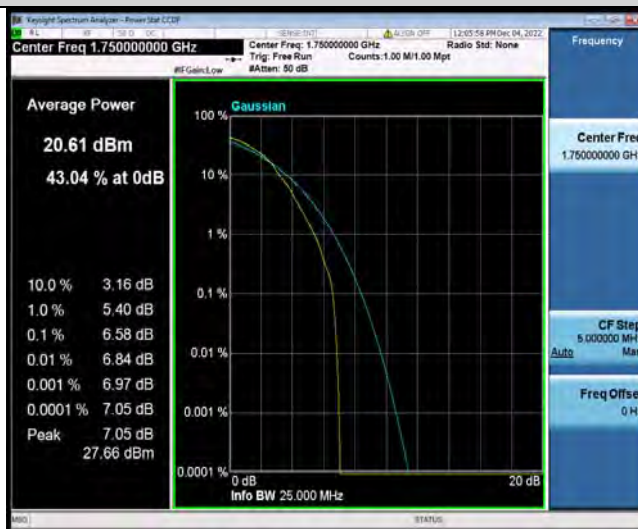
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Band4-10MHz-64QAM-20175-50RB#0



Band4-10MHz-64QAM-20350-1RB#0



Band4-10MHz-64QAM-20350-50RB#0



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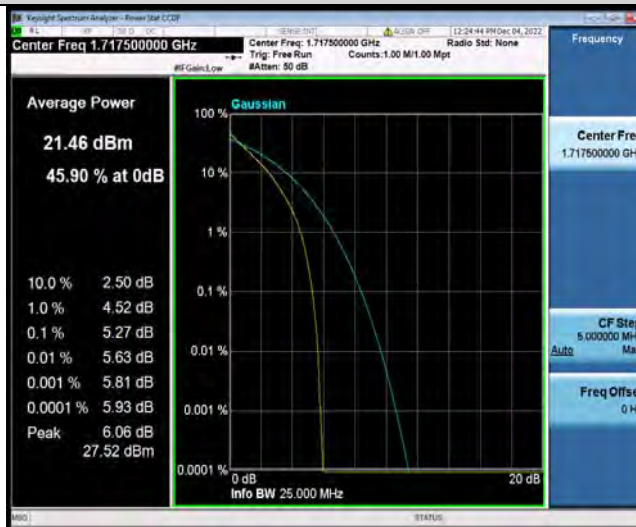
Test Report No.: W7L-P22110037RF06



Band4-15MHz-QPSK-20025-1RB#0



Band4-15MHz-QPSK-20025-75RB#0



Band4-15MHz-QPSK-20175-1RB#0



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Test Report No.: W7L-P22110037RF06



Band4-15MHz-QPSK-20175-75RB#0



Band4-15MHz-QPSK-20325-1RB#0



Band4-15MHz-QPSK-20325-75RB#0



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Test Report No.: W7L-P22110037RF06



Band4-15MHz-16QAM-20025-1RB#0



Band4-15MHz-16QAM-20025-75RB#0



Band4-15MHz-16QAM-20175-1RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-15MHz-16QAM-20175-75RB#0



Band4-15MHz-16QAM-20325-1RB#0

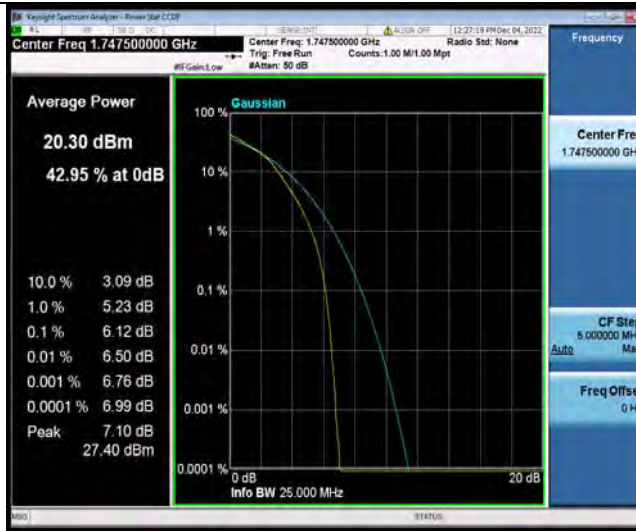


Band4-15MHz-16QAM-20325-75RB#0



BUREAU VERITAS

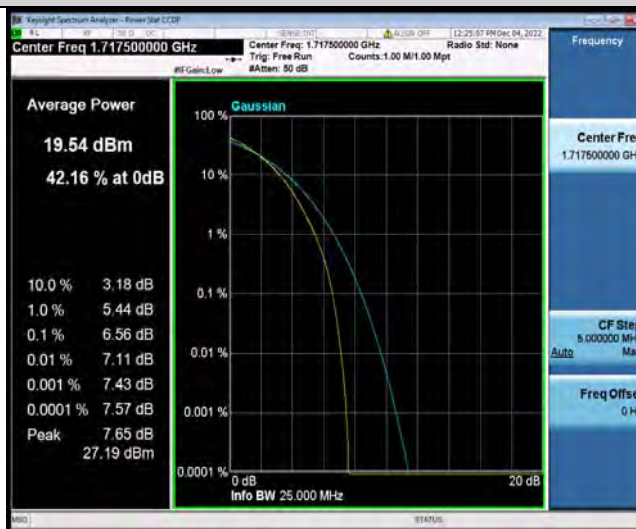
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Band4-15MHz-64QAM-20025-1RB#0



Band4-15MHz-64QAM-20025-75RB#0



Band4-15MHz-64QAM-20175-1RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-15MHz-64QAM-20175-75RB#0



Band4-15MHz-64QAM-20325-1RB#0



Band4-15MHz-64QAM-20325-75RB#0

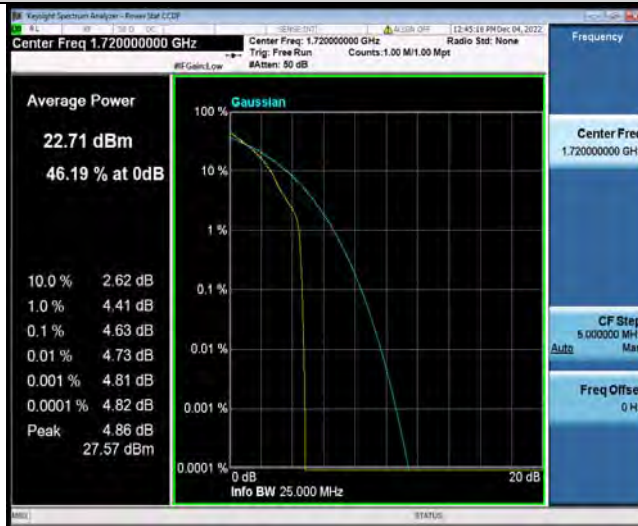


BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-20MHz-QPSK-20050-1RB#0



Band4-20MHz-QPSK-20050-100RB#0

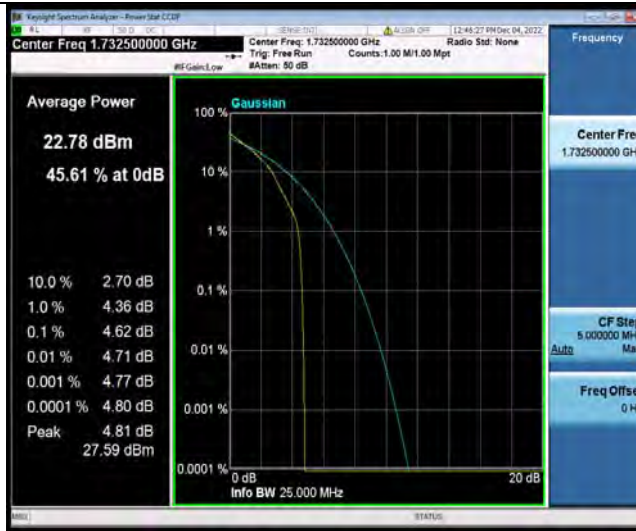


Band4-20MHz-QPSK-20175-1RB#0



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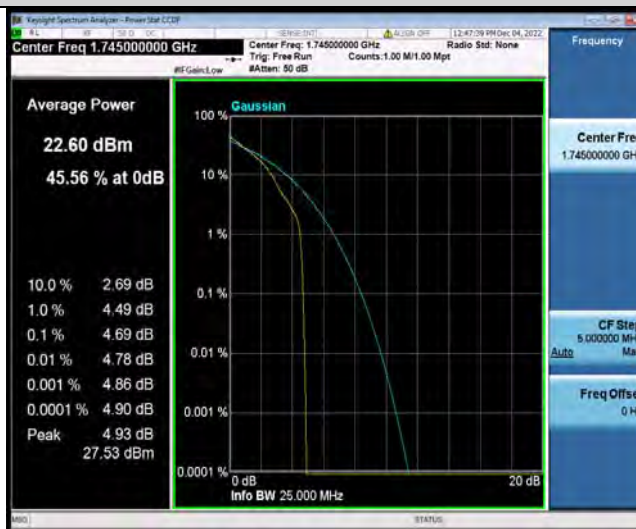
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Band4-20MHz-QPSK-20175-100RB#0



Band4-20MHz-QPSK-20300-1RB#0



Band4-20MHz-QPSK-20300-100RB#0



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Test Report No.: W7L-P22110037RF06



Band4-20MHz-16QAM-20050-1RB#0



Band4-20MHz-16QAM-20050-100RB#0



Band4-20MHz-16QAM-20175-1RB#0



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Test Report No.: W7L-P22110037RF06



Band4-20MHz-16QAM-20175-100RB#0



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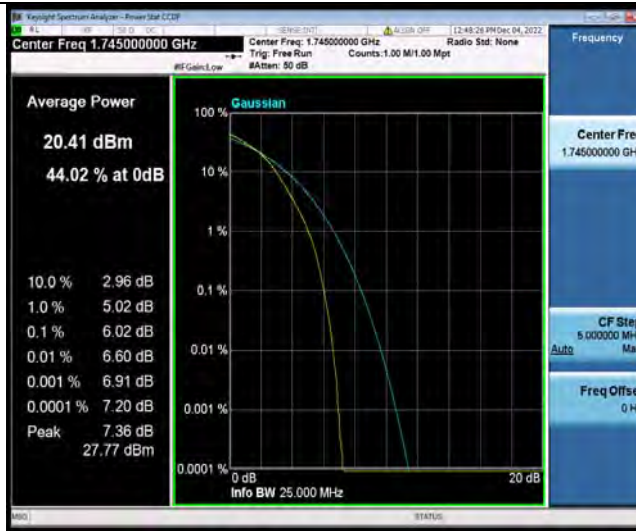


Band4-20MHz-16QAM-20300-100RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-20MHz-64QAM-20050-1RB#0



Band4-20MHz-64QAM-20050-100RB#0



Band4-20MHz-64QAM-20175-1RB#0



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Test Report No.: W7L-P22110037RF06



Band4-20MHz-64QAM-20175-100RB#0



Band4-20MHz-64QAM-20300-1RB#0

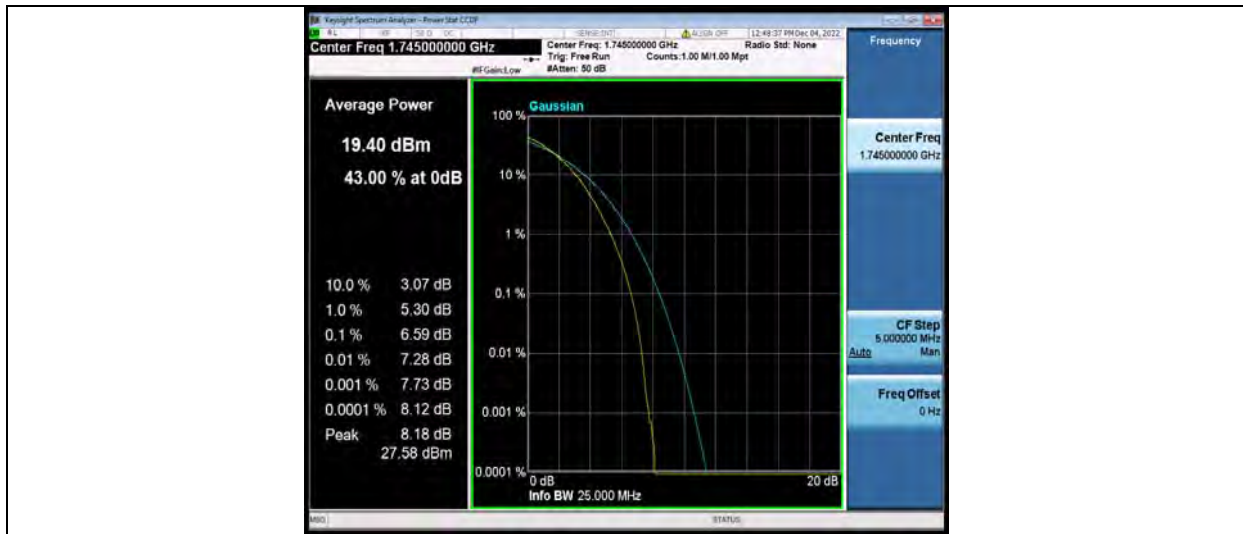


Band4-20MHz-64QAM-20300-100RB#0



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Test Report No.: W7L-P22110037RF06





Test Report No.: W7L-P22110037RF06

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0929	1.271	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0904	1.269	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0912	1.284	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0907	1.290	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0924	1.284	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0920	1.276	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.0897	1.280	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.0903	1.265	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.0912	1.261	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6946	2.912	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.6953	2.892	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.6975	2.907	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.6914	2.938	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6906	2.915	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6911	2.929	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.6998	2.923	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.6962	2.933	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.7005	2.920	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.4975	4.901	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.4969	4.902	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.4975	4.868	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.4990	4.851	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5025	4.888	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.5003	4.922	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.4881	4.864	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.4941	4.877	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.5010	4.858	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9764	9.554	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9728	9.571	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9673	9.541	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9607	9.533	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9613	9.525	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9601	9.543	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.9524	9.549	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.9602	9.548	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.9772	9.545	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.467	14.35	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.465	14.31	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.431	14.24	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.446	14.26	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.457	14.27	PASS



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Band4	15MHz	16QAM	20325	75RB#0	13.442	14.28	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.452	14.30	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.454	14.27	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.444	14.27	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.936	18.98	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.933	19.02	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.900	18.96	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.941	18.98	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.948	18.95	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.904	18.98	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.935	18.99	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.944	18.99	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.914	18.95	PASS

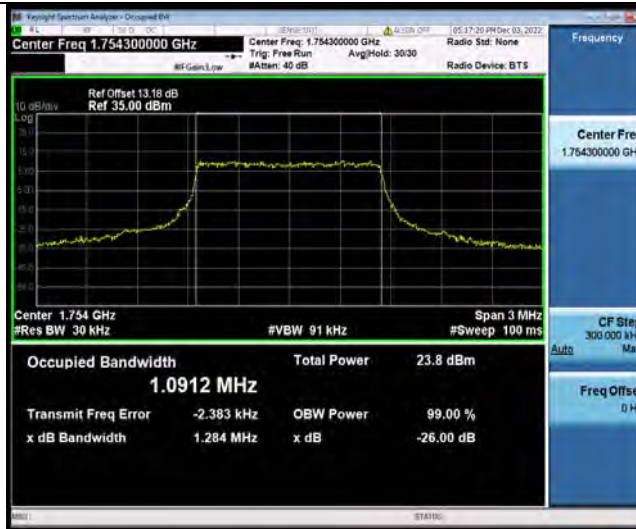
Test Graphs





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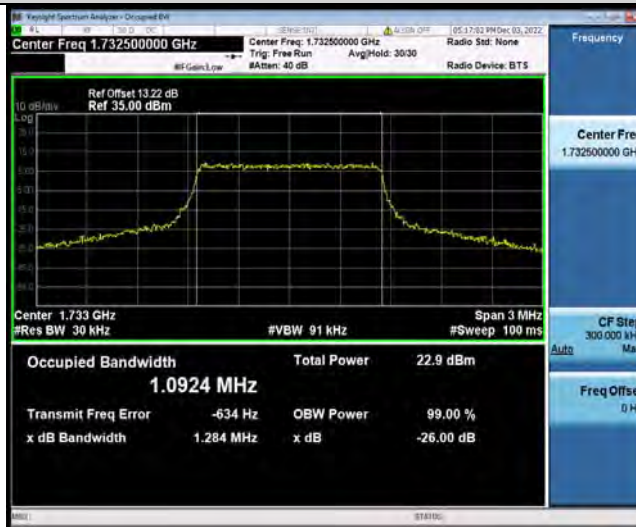
Test Report No.: W7L-P22110037RF06



Band4-1.4MHz-16QAM-19957-6RB#0



Band4-1.4MHz-16QAM-20175-6RB#0

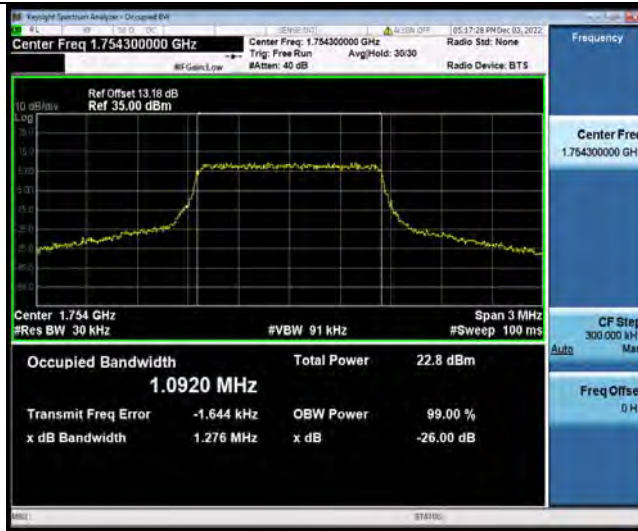


Band4-1.4MHz-16QAM-20393-6RB#0



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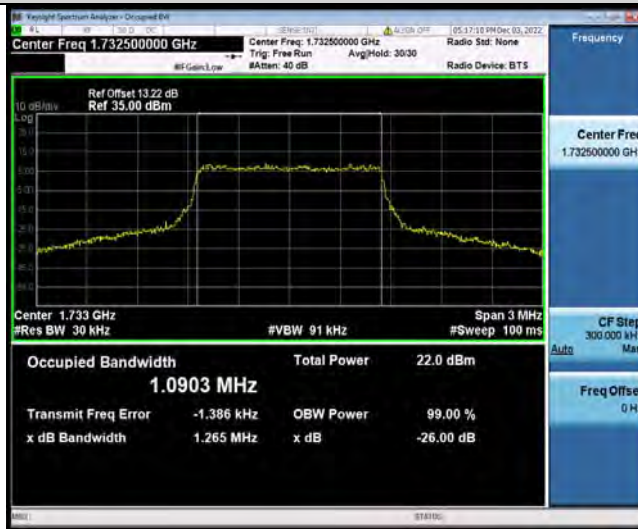
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Band4-1.4MHz-64QAM-19957-6RB#0



Band4-1.4MHz-64QAM-20175-6RB#0

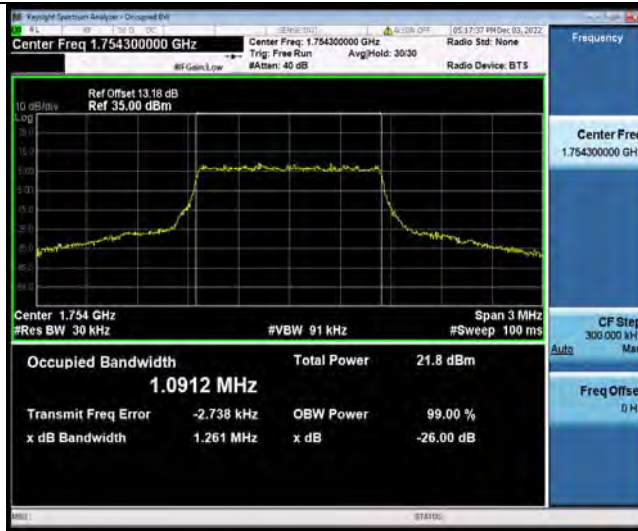


Band4-1.4MHz-64QAM-20393-6RB#0

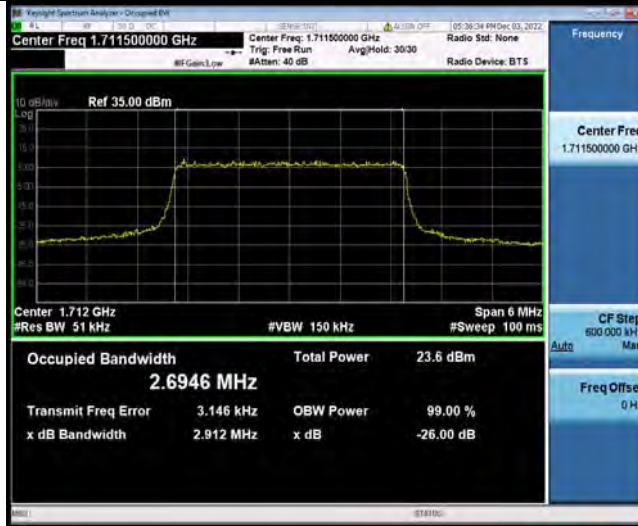


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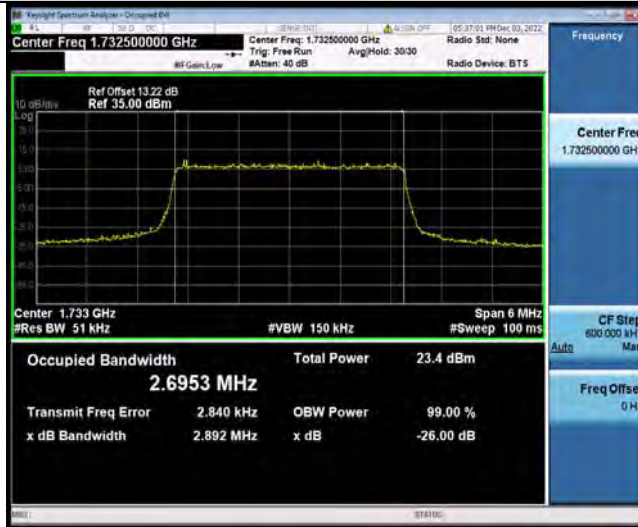
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Band4-3MHz-QPSK-19965-15RB#0



Band4-3MHz-QPSK-20175-15RB#0

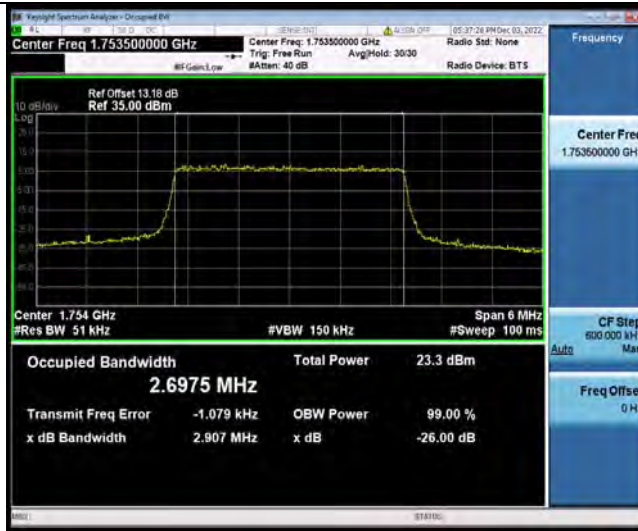


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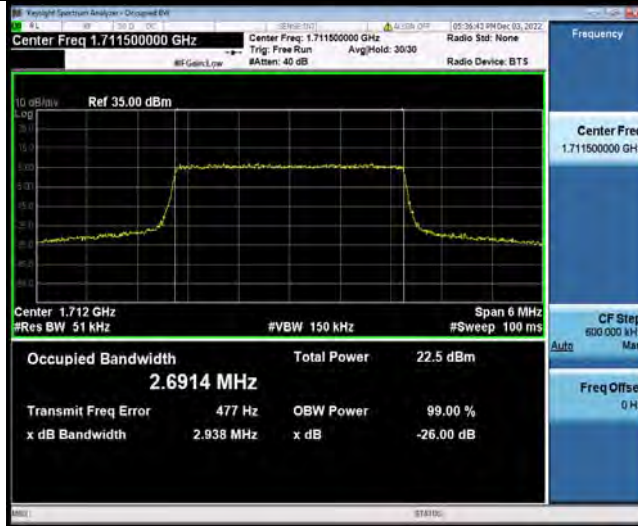


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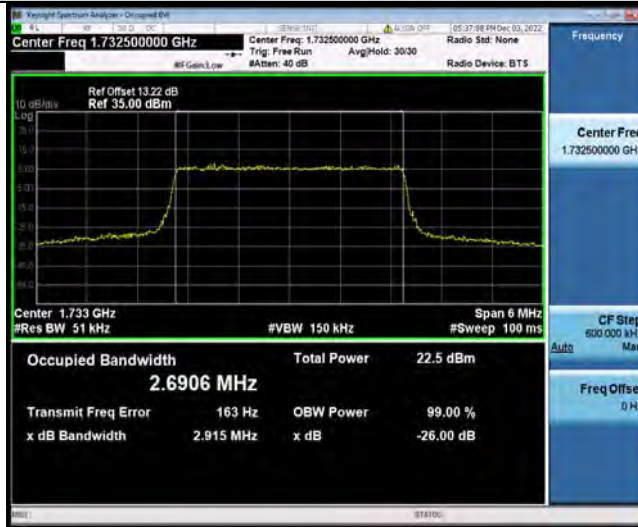
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Band4-3MHz-16QAM-19965-15RB#0



Band4-3MHz-16QAM-20175-15RB#0

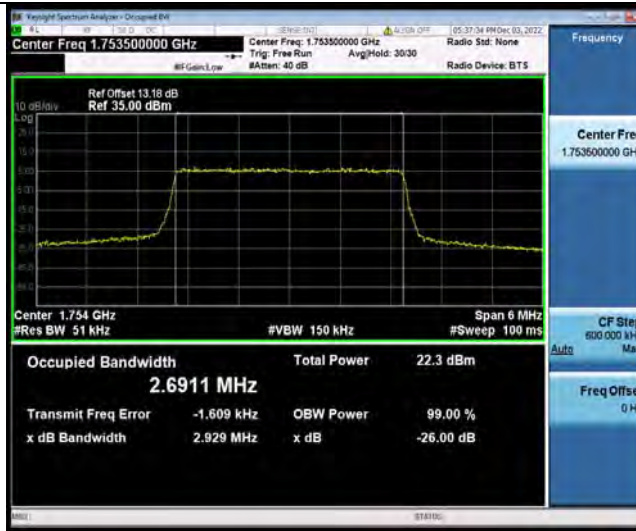


Band4-3MHz-16QAM-20385-15RB#0



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Test Report No.: W7L-P22110037RF06



Band4-3MHz-64QAM-19965-15RB#0



Band4-3MHz-64QAM-20175-15RB#0

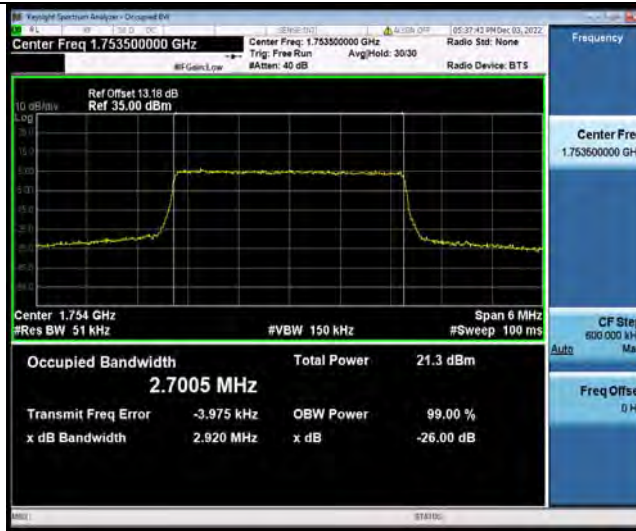


Band4-3MHz-64QAM-20385-15RB#0



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Test Report No.: W7L-P22110037RF06



Band4-5MHz-QPSK-19975-25RB#0



Band4-5MHz-QPSK-20175-25RB#0

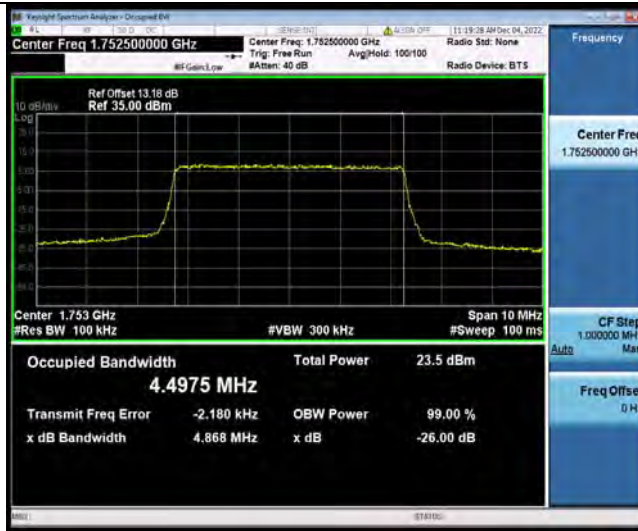


Band4-5MHz-QPSK-20375-25RB#0

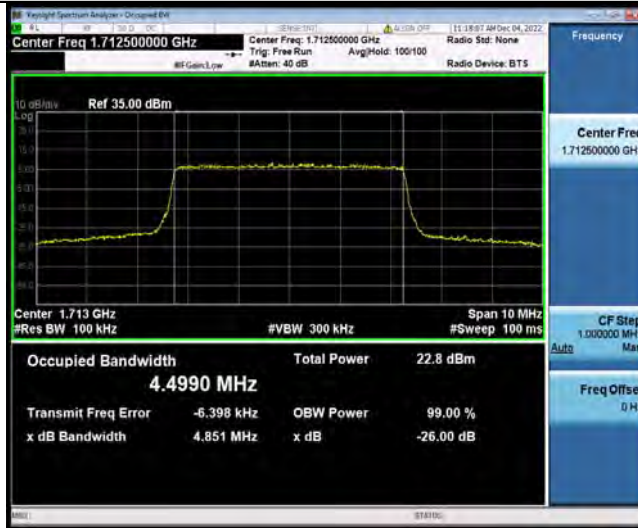


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Test Report No.: W7L-P22110037RF06



Band4-5MHz-16QAM-19975-25RB#0



Band4-5MHz-16QAM-20175-25RB#0

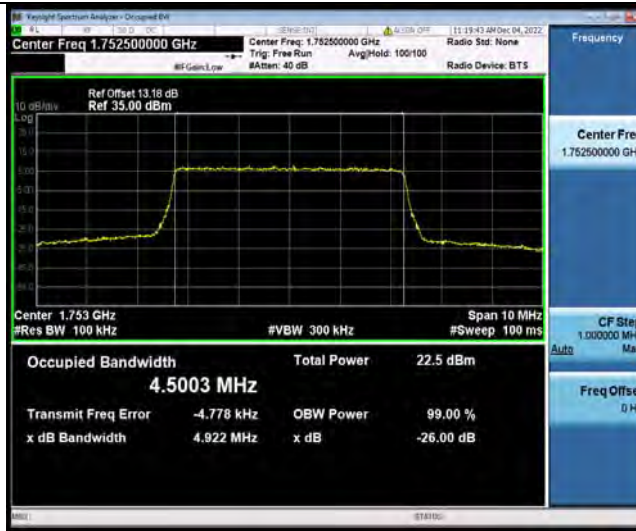


Band4-5MHz-16QAM-20375-25RB#0

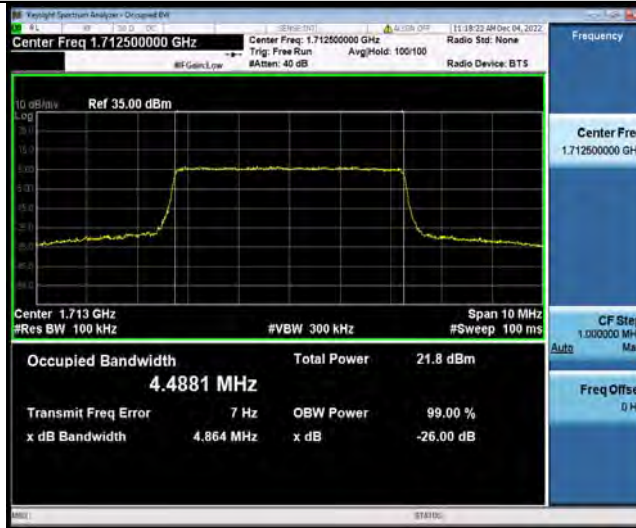


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Test Report No.: W7L-P22110037RF06



Band4-5MHz-64QAM-19975-25RB#0



Band4-5MHz-64QAM-20175-25RB#0

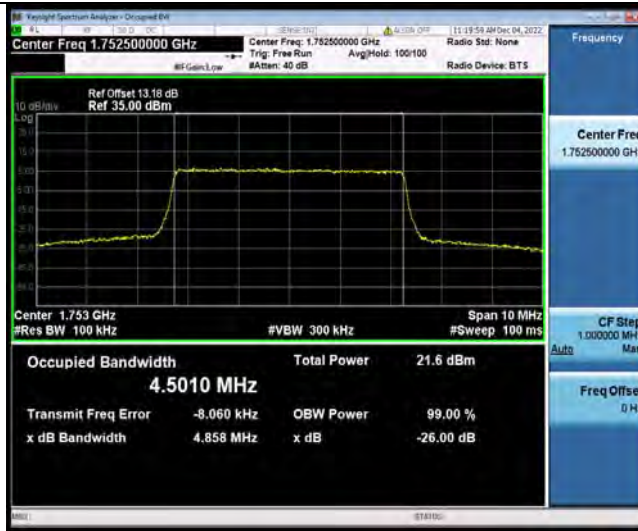


Band4-5MHz-64QAM-20375-25RB#0



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Test Report No.: W7L-P22110037RF06



Band4-10MHz-QPSK-20000-50RB#0



Band4-10MHz-QPSK-20175-50RB#0

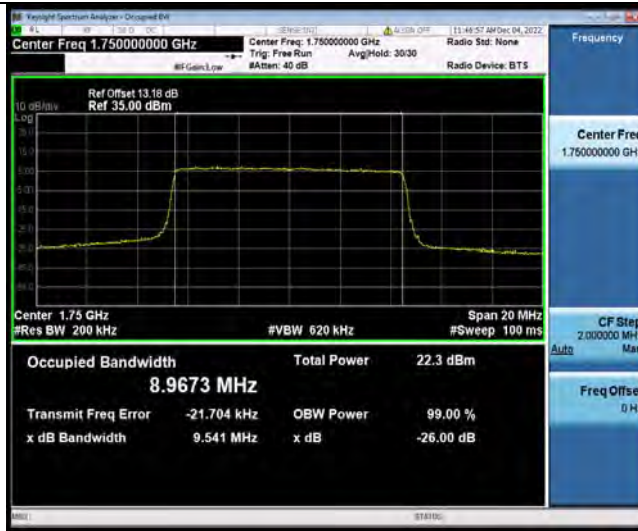


Band4-10MHz-QPSK-20350-50RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-10MHz-16QAM-20000-50RB#0



Band4-10MHz-16QAM-20175-50RB#0



Band4-10MHz-16QAM-20350-50RB#0



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Test Report No.: W7L-P22110037RF06



Band4-10MHz-64QAM-20000-50RB#0



Band4-10MHz-64QAM-20175-50RB#0



Band4-10MHz-64QAM-20350-50RB#0

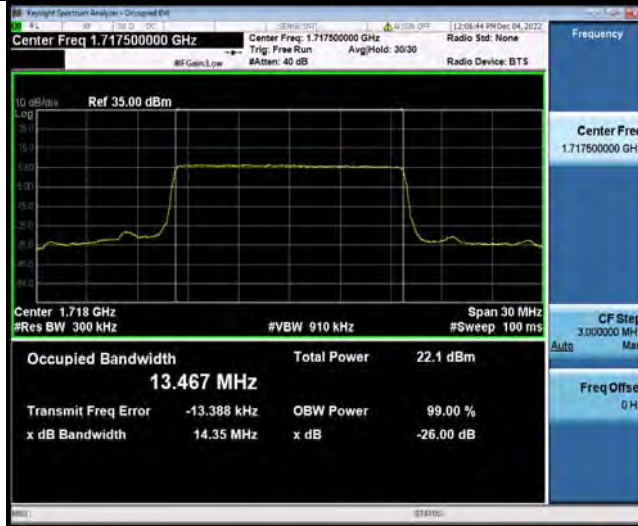


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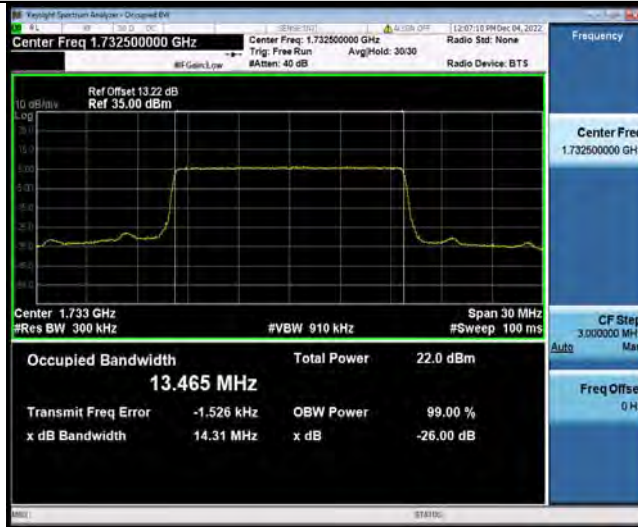
Test Report No.: W7L-P22110037RF06



Band4-15MHz-QPSK-20025-75RB#0



Band4-15MHz-QPSK-20175-75RB#0



Band4-15MHz-QPSK-20325-75RB#0



BUREAU VERITAS

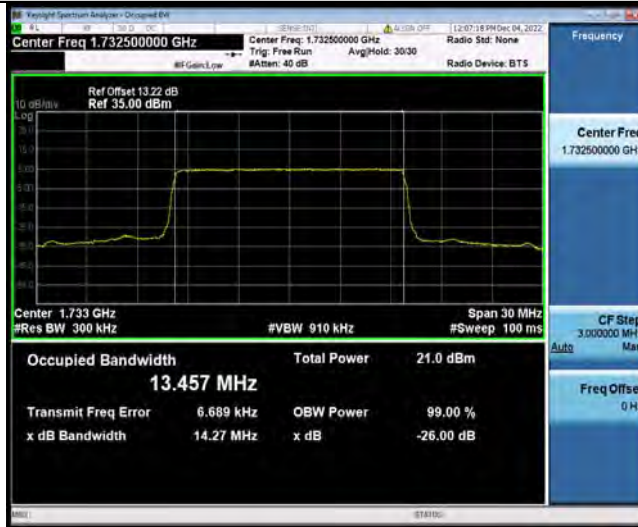
Test Report No.: W7L-P22110037RF06



Band4-15MHz-16QAM-20025-75RB#0



Band4-15MHz-16QAM-20175-75RB#0



Band4-15MHz-16QAM-20325-75RB#0



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Test Report No.: W7L-P22110037RF06



Band4-15MHz-64QAM-20025-75RB#0



Band4-15MHz-64QAM-20175-75RB#0

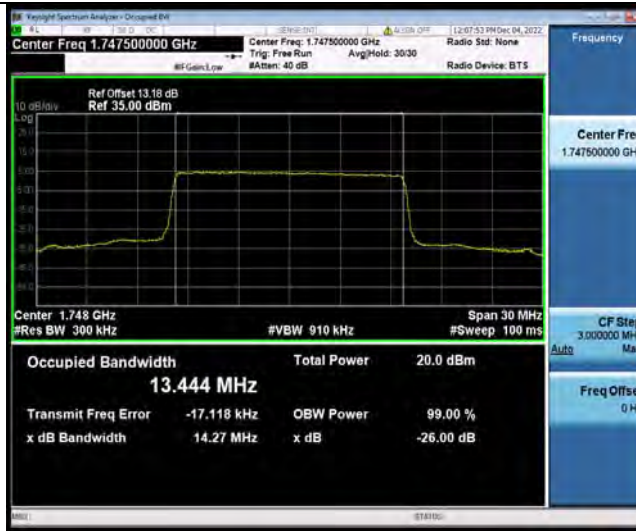


Band4-15MHz-64QAM-20325-75RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-20MHz-QPSK-20050-100RB#0



Band4-20MHz-QPSK-20175-100RB#0



Band4-20MHz-QPSK-20300-100RB#0



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VERITAS

Test Report No.: W7L-P22110037RF06



Band4-20MHz-16QAM-20050-100RB#0



Band4-20MHz-16QAM-20175-100RB#0



Band4-20MHz-16QAM-20300-100RB#0



BUREAU
VERITAS

Test Report No.: W7L-P22110037RF06



Band4-20MHz-64QAM-20050-100RB#0



Band4-20MHz-64QAM-20175-100RB#0

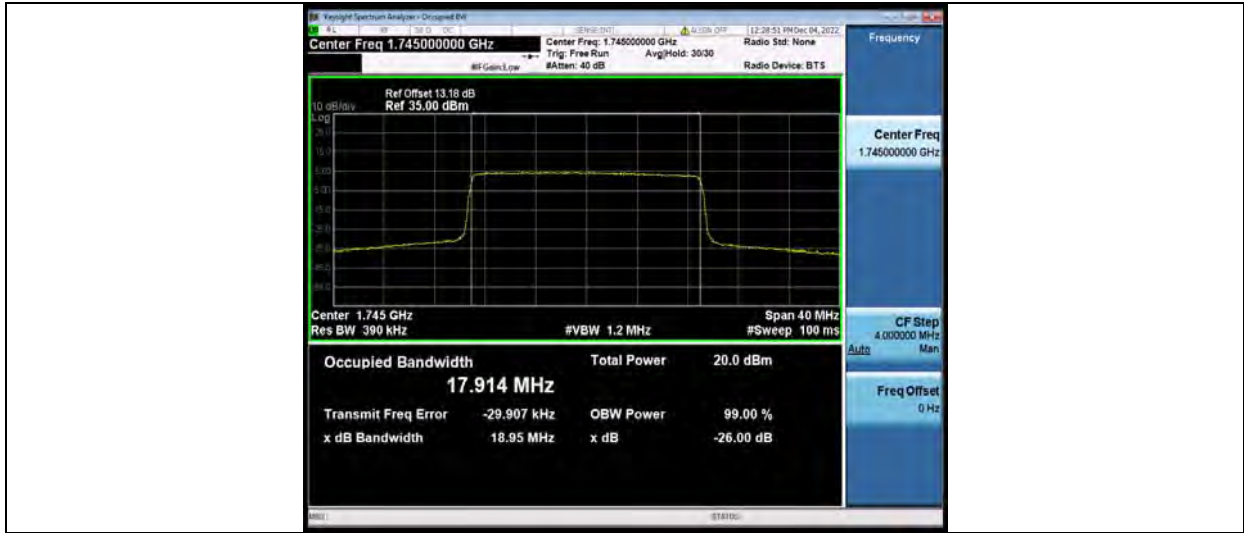


Band4-20MHz-64QAM-20300-100RB#0



BUREAU
VERITAS

Test Report No.: W7L-P22110037RF06





Test Report No.: W7L-P22110037RF06

BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-26.74	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-22.70	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-28.98	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-25.01	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-28.56	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-24.35	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-29.94	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-25.95	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	-30.50	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	-25.15	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	-31.64	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	-27.67	PASS
Band4	3MHz	QPSK	19965	1RB#0	-26.78	PASS
Band4	3MHz	QPSK	19965	15RB#0	-24.20	PASS
Band4	3MHz	QPSK	20385	1RB#14	-28.56	PASS
Band4	3MHz	QPSK	20385	15RB#0	-26.91	PASS
Band4	3MHz	16QAM	19965	1RB#0	-28.27	PASS
Band4	3MHz	16QAM	19965	15RB#0	-25.58	PASS
Band4	3MHz	16QAM	20385	1RB#14	-29.30	PASS
Band4	3MHz	16QAM	20385	15RB#0	-27.85	PASS
Band4	3MHz	64QAM	19965	1RB#0	-30.13	PASS
Band4	3MHz	64QAM	19965	15RB#0	-26.38	PASS
Band4	3MHz	64QAM	20385	1RB#14	-31.02	PASS
Band4	3MHz	64QAM	20385	15RB#0	-28.13	PASS
Band4	5MHz	QPSK	19975	1RB#0	-30.71	PASS
Band4	5MHz	QPSK	19975	25RB#0	-25.44	PASS
Band4	5MHz	QPSK	20375	1RB#24	-30.87	PASS
Band4	5MHz	QPSK	20375	25RB#0	-27.09	PASS
Band4	5MHz	16QAM	19975	1RB#0	-31.23	PASS
Band4	5MHz	16QAM	19975	25RB#0	-26.18	PASS
Band4	5MHz	16QAM	20375	1RB#24	-32.51	PASS
Band4	5MHz	16QAM	20375	25RB#0	-28.05	PASS
Band4	5MHz	64QAM	19975	1RB#0	-31.81	PASS
Band4	5MHz	64QAM	19975	25RB#0	-26.85	PASS
Band4	5MHz	64QAM	20375	1RB#24	-34.17	PASS
Band4	5MHz	64QAM	20375	25RB#0	-28.85	PASS
Band4	10MHz	QPSK	20000	1RB#0	-45.15	PASS
Band4	10MHz	QPSK	20000	50RB#0	-27.34	PASS
Band4	10MHz	QPSK	20350	1RB#49	-46.16	PASS
Band4	10MHz	QPSK	20350	50RB#0	-30.48	PASS
Band4	10MHz	16QAM	20000	1RB#0	-44.43	PASS
Band4	10MHz	16QAM	20000	50RB#0	-28.60	PASS
Band4	10MHz	16QAM	20350	1RB#49	-45.62	PASS
Band4	10MHz	16QAM	20350	50RB#0	-30.66	PASS

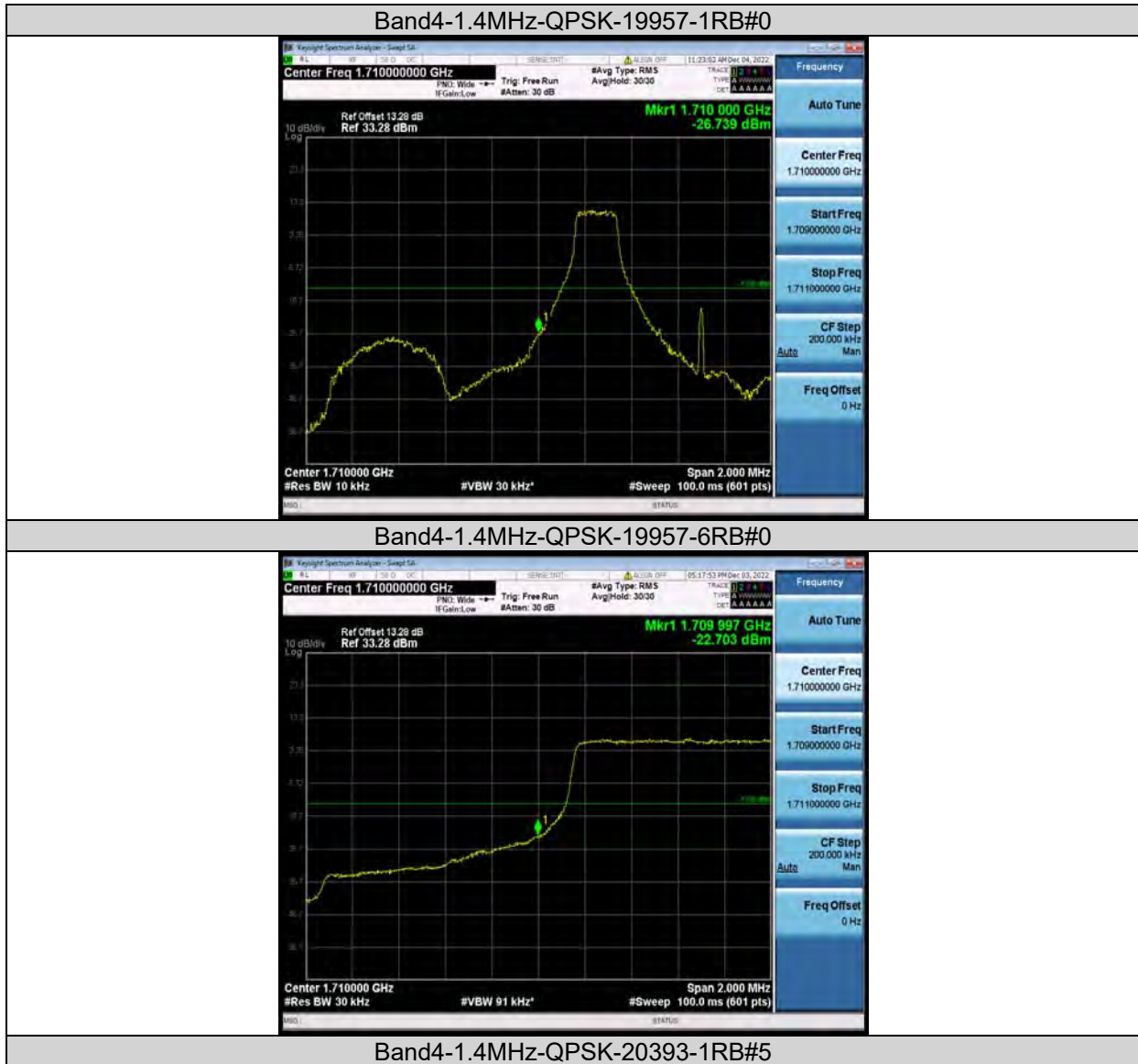


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VERITAS

Test Report No.: W7L-P22110037RF06

Band4	10MHz	64QAM	20000	1RB#0	-47.66	PASS
Band4	10MHz	64QAM	20000	50RB#0	-29.47	PASS
Band4	10MHz	64QAM	20350	1RB#49	-48.15	PASS
Band4	10MHz	64QAM	20350	50RB#0	-31.89	PASS
Band4	15MHz	QPSK	20025	1RB#0	-42.90	PASS
Band4	15MHz	QPSK	20025	75RB#0	-28.47	PASS
Band4	15MHz	QPSK	20325	1RB#74	-43.17	PASS
Band4	15MHz	QPSK	20325	75RB#0	-32.02	PASS
Band4	15MHz	16QAM	20025	1RB#0	-43.11	PASS
Band4	15MHz	16QAM	20025	75RB#0	-29.74	PASS
Band4	15MHz	16QAM	20325	1RB#74	-44.05	PASS
Band4	15MHz	16QAM	20325	75RB#0	-32.63	PASS
Band4	15MHz	64QAM	20025	1RB#0	-44.34	PASS
Band4	15MHz	64QAM	20025	75RB#0	-30.80	PASS
Band4	15MHz	64QAM	20325	1RB#74	-44.58	PASS
Band4	15MHz	64QAM	20325	75RB#0	-32.90	PASS
Band4	20MHz	QPSK	20050	1RB#0	-48.18	PASS
Band4	20MHz	QPSK	20050	100RB#0	-29.51	PASS
Band4	20MHz	QPSK	20300	1RB#99	-48.64	PASS
Band4	20MHz	QPSK	20300	100RB#0	-32.76	PASS
Band4	20MHz	16QAM	20050	1RB#0	-48.19	PASS
Band4	20MHz	16QAM	20050	100RB#0	-30.09	PASS
Band4	20MHz	16QAM	20300	1RB#99	-48.13	PASS
Band4	20MHz	16QAM	20300	100RB#0	-32.46	PASS
Band4	20MHz	64QAM	20050	1RB#0	-49.33	PASS
Band4	20MHz	64QAM	20050	100RB#0	-31.17	PASS
Band4	20MHz	64QAM	20300	1RB#99	-49.05	PASS
Band4	20MHz	64QAM	20300	100RB#0	-32.70	PASS

Test Graphs





BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-1.4MHz-QPSK-20393-6RB#0



Band4-1.4MHz-16QAM-19957-1RB#0



Band4-1.4MHz-16QAM-19957-6RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-1.4MHz-16QAM-20393-1RB#5



Band4-1.4MHz-16QAM-20393-6RB#0



Band4-1.4MHz-64QAM-19957-1RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-1.4MHz-64QAM-19957-6RB#0



Band4-1.4MHz-64QAM-20393-1RB#5



Band4-1.4MHz-64QAM-20393-6RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-3MHz-QPSK-19965-1RB#0



Band4-3MHz-QPSK-19965-15RB#0

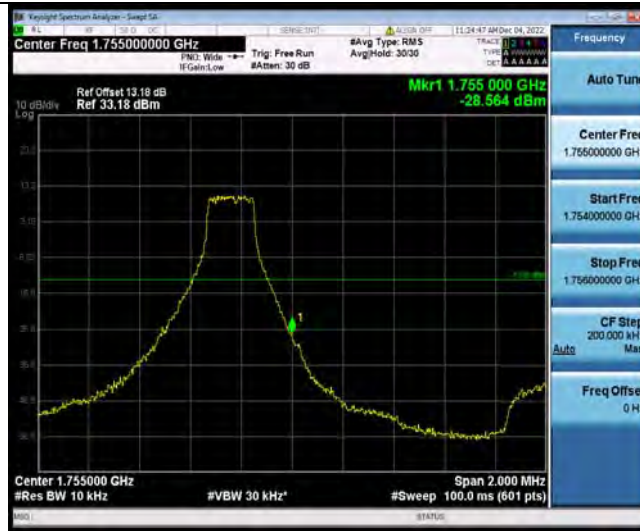


Band4-3MHz-QPSK-20385-1RB#14



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-3MHz-QPSK-20385-15RB#0



Band4-3MHz-16QAM-19965-1RB#0



Band4-3MHz-16QAM-19965-15RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-3MHz-16QAM-20385-1RB#14



Band4-3MHz-16QAM-20385-15RB#0



Band4-3MHz-64QAM-19965-1RB#0



BUREAU VERITAS

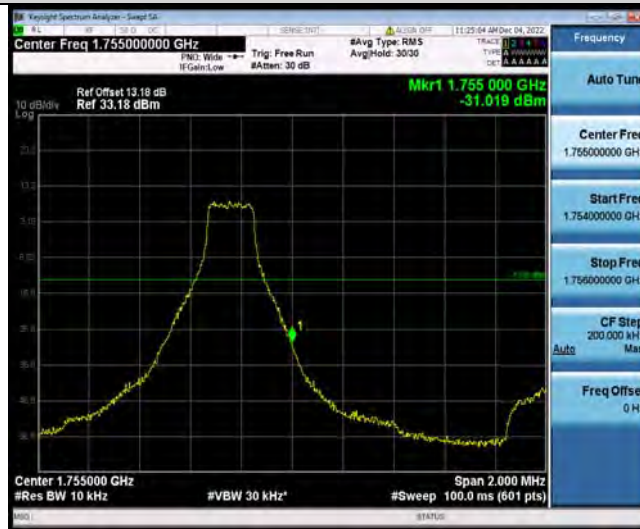
Test Report No.: W7L-P22110037RF06



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Band4-3MHz-64QAM-20385-1RB#14



Band4-3MHz-64QAM-20385-15RB#0

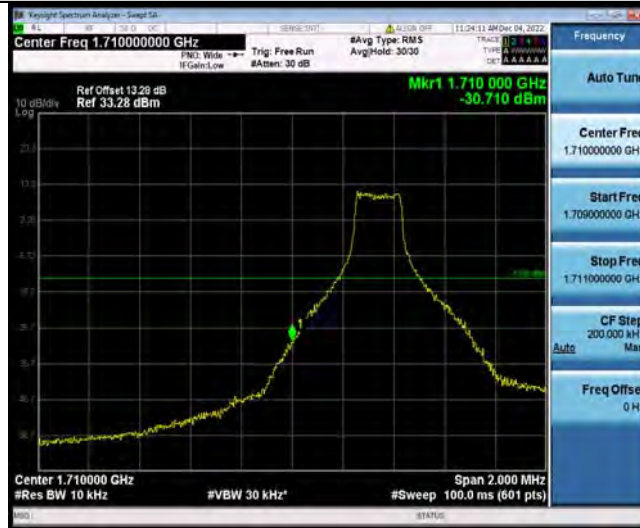


BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-5MHz-QPSK-19975-1RB#0



Band4-5MHz-QPSK-19975-25RB#0

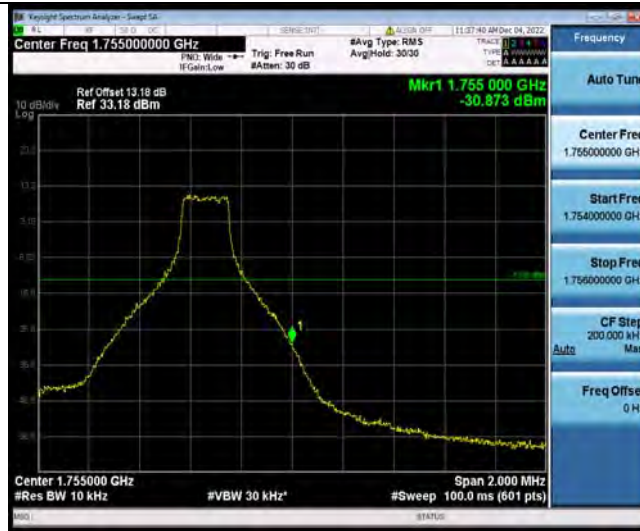


Band4-5MHz-QPSK-20375-1RB#24



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-5MHz-QPSK-20375-25RB#0



Band4-5MHz-16QAM-19975-1RB#0



Band4-5MHz-16QAM-19975-25RB#0

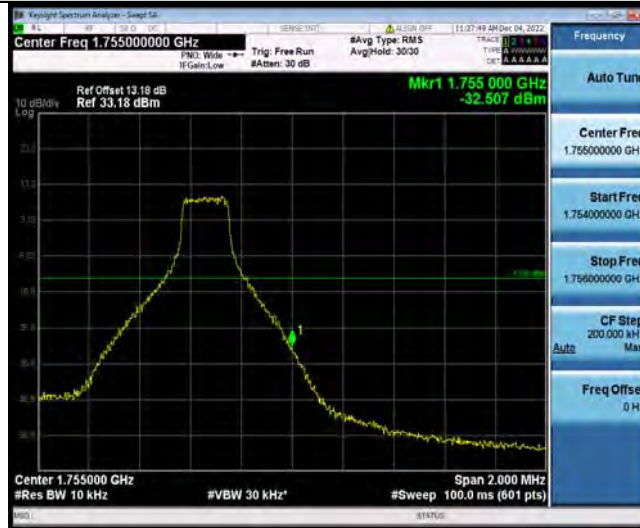


BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-5MHz-16QAM-20375-1RB#24



Band4-5MHz-16QAM-20375-25RB#0



Band4-5MHz-64QAM-19975-1RB#0



BUREAU VERITAS

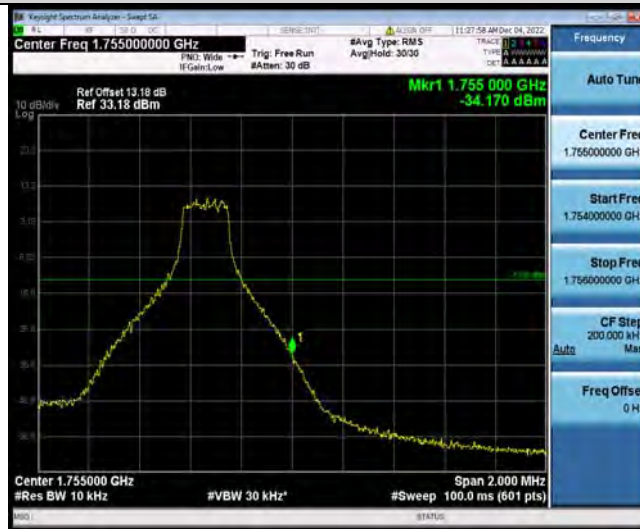
Test Report No.: W7L-P22110037RF06



Band4-5MHz-64QAM-19975-25RB#0



Band4-5MHz-64QAM-20375-1RB#24



Band4-5MHz-64QAM-20375-25RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-10MHz-QPSK-20000-1RB#0



Band4-10MHz-QPSK-20000-50RB#0



Band4-10MHz-QPSK-20350-1RB#49



BUREAU VERITAS

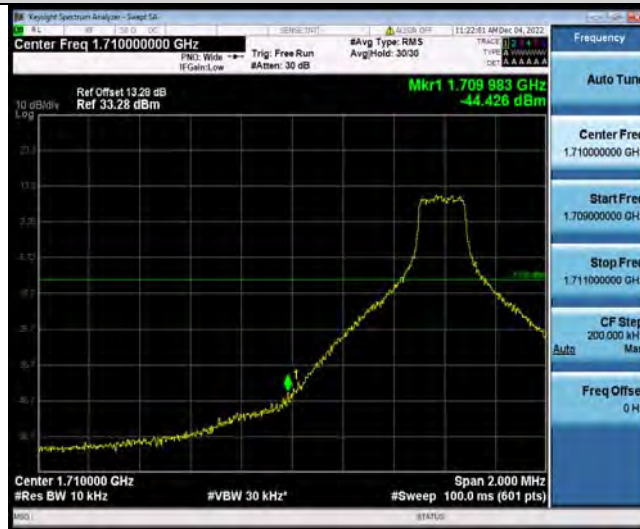
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Band4-10MHz-QPSK-20350-50RB#0



Band4-10MHz-16QAM-20000-1RB#0



Band4-10MHz-16QAM-20000-50RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-10MHz-16QAM-20350-1RB#49



Band4-10MHz-16QAM-20350-50RB#0



Band4-10MHz-64QAM-20000-1RB#0



BUREAU VERITAS

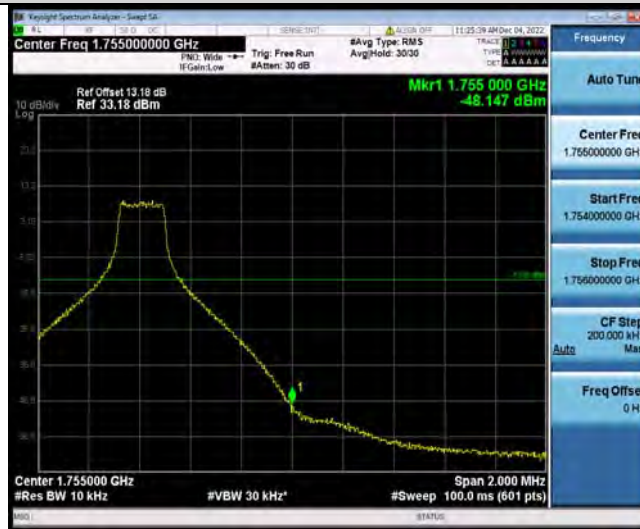
Test Report No.: W7L-P22110037RF06



Band4-10MHz-64QAM-20000-50RB#0



Band4-10MHz-64QAM-20350-1RB#49



Band4-10MHz-64QAM-20350-50RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-15MHz-QPSK-20025-1RB#0



Band4-15MHz-QPSK-20025-75RB#0



Band4-15MHz-QPSK-20325-1RB#74



BUREAU VERITAS

Test Report No.: W7L-P22110037RF06



Band4-15MHz-QPSK-20325-75RB#0



Band4-15MHz-16QAM-20025-1RB#0



Band4-15MHz-16QAM-20025-75RB#0