



Test Report No.: RF180302W006-3

FCC TEST REPORT

(PART 27)

Applicant:	OCTO Telematics S.p.A
Address:	Via Lamaro 51 Rome RM 00173 Italy

Manufacturer or Supplier:	Gosuncn Technology Group Co., Ltd.
Address:	6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.
Product:	OBV
Brand Name:	OCTO
Model Name:	AT41
FCC ID:	2AHR8-AT41
Date of tests:	Mar. 02, 2018 ~ Mar. 13, 2018

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

- ☒ FCC Part 27, Subpart C, L ☒ ANSI/TIA/EIA-603-D
☒ FCC Part 2 ☒ ANSI/TIA/EIA-603-E

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

Prepared by Roger Li Engineer / Mobile Department	Approved by Sam Tung Manager / Mobile Department
 Date: Mar. 15, 2018	 Date: Mar. 15, 2018

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF180302W006-3	Original release	Mar. 15, 2018

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	REMARK
2.1046 27.50(d)(4)	Maximum Peak Output Power	PASS	Meet the requirement of limit.
2.1055 27.54	Frequency Stability	PASS	Meet the requirement of limit.
2.1049 27.53(h)	Occupied Bandwidth	PASS	Meet the requirement of limit.
27.50(d)(5)	Peak to average ratio	PASS	Meet the requirement of limit.
27.53(h)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 27.53(h)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 27.53(h)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -27.82dB at 46.490MHz.

*Base on the Declaration of Differences, test data for this report are copied from the OCTO AT41 (FCC ID: 2AHR8-AT41BT), (report No.:RF180302W004-5)

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	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.66dB
Radiated emissions	9KHz ~ 30MHz	2.68dB
	30MHz ~ 1GMHz	3.26dB
	1GHz ~ 18GHz	4.48dB
	18GHz ~ 40GHz	4.12dB

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

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 01,18	Feb. 28,19
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510332	Mar. 01,18	Feb. 28,19
Bilog Antenna 1	ETS-LINDGREN	3143B	00161964	Nov. 26,16	Nov. 25,18
Bilog Antenna 2	ETS-LINDGREN	3143B	00161965	Nov. 26,16	Nov. 25,18
Horn Antenna 1	ETS-LINDGREN	3117	00168728	Nov. 26,16	Nov. 25,18
Horn Antenna 2	ETS-LINDGREN	3117	00168692	Nov. 26,16	Nov. 25,18
Loop antenna	Daze	ZN30900A	0708	Nov. 20,17	Nov. 19,18
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Dec. 16,16	Dec. 15,18
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Mar. 01,18	Feb. 28,19
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jul. 24,17	Jul. 23,18
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jul. 24,17	Jul. 23,18
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Jul. 24,17	Jul. 23,18
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May 06,17	May 05,18
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jul. 24,17	Jul. 23,18
Power Meter	Anritsu	ML2495A	1506002	Mar. 01,18	Feb. 28,19
Power Sensor	Anritsu	MA2411B	1339352	Mar. 01,18	Feb. 28,19
Humid & Temp Programmable Tester	Juyi	ITH-120-45-CP-AR	IAA1504-001	Jul. 18,17	Jul. 17,18
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Mar. 01,18	Feb. 28,19

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 24 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.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	OBU	
MODEL NAME	AT41	
POWER SUPPLY	DC 12V 3.7Vdc (Li-ion, battery)	
MODULATION TECHNOLOGY	LTE	QPSK, 16QAM
FREQUENCY RANGE	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	1715.0MHz ~ 1750.0MHz
	LTE Band 4 Channel Bandwidth: 15MHz	1717.5MHz ~ 1747.5MHz
	LTE Band 4 Channel Bandwidth: 20MHz	1720.0MHz ~ 1745.0MHz
	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	704.0MHz ~ 711.0MHz
EMISSION DESIGNATOR	LTE Band 4 Channel Bandwidth: 1.4MHz	QPSK: 1M09G7D 16QAM: 1M08W7D
	LTE Band 4 Channel Bandwidth: 3MHz	QPSK: 2M68G7D 16QAM: 2M68W7D
	LTE Band 4 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M48W7D
	LTE Band 4 Channel Bandwidth: 10MHz	QPSK: 8M94G7D 16QAM: 8M95W7D
	LTE Band 4 Channel Bandwidth: 15MHz	QPSK: 13M4G7D 16QAM: 13M4W7D
	LTE Band 4 Channel Bandwidth: 20MHz	QPSK: 17M8G7D 16QAM: 17M8W7D
	LTE Band 12 Channel Bandwidth: 1.4MHz	QPSK: 1M09G7D 16QAM: 1M09W7D

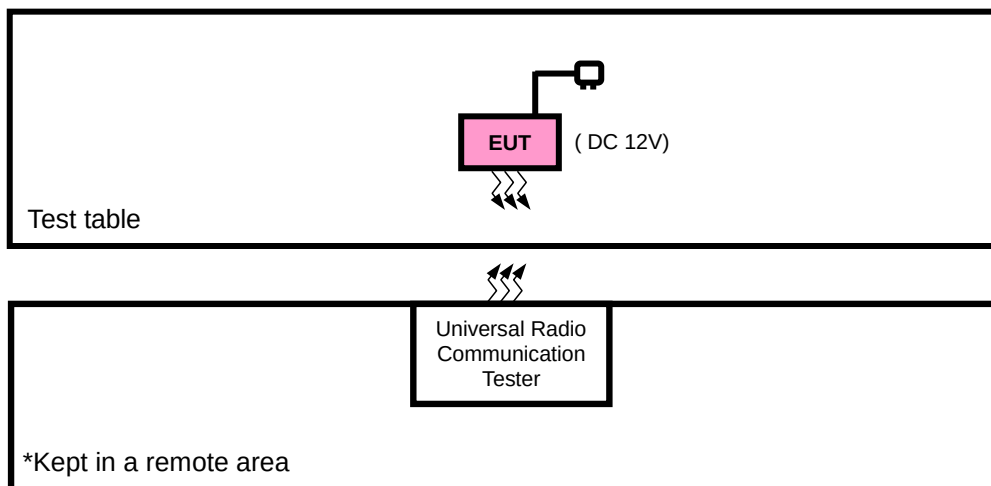
EMISSION DESIGNATOR	LTE Band 12 Channel Bandwidth: 3MHz	QPSK: 2M69G7D 16QAM: 2M69W7D
	LTE Band 12 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M48W7D
	LTE Band 12 Channel Bandwidth: 10MHz	QPSK: 8M94G7D 16QAM: 8M94W7D
MAX. ERP/EIRP POWER	LTE Band 4 Channel Bandwidth: 1.4MHz	490mW
	LTE Band 4 Channel Bandwidth: 3MHz	483mW
	LTE Band 4 Channel Bandwidth: 5MHz	489mW
	LTE Band 4 Channel Bandwidth: 10MHz	495mW
	LTE Band 4 Channel Bandwidth: 15MHz	488mW
	LTE Band 4 Channel Bandwidth: 20MHz	439mW
	LTE Band 12 Channel Bandwidth: 1.4MHz	195mW
	LTE Band 12 Channel Bandwidth: 3MHz	198mW
	LTE Band 12 Channel Bandwidth: 5MHz	195mW
	LTE Band 12 Channel Bandwidth: 10MHz	175mW
ANTENNA TYPE	LTE Band 4	Other antenna with 4.8dBi gain
	LTE Band 12	Other antenna with 3.5dBi gain
HW VERSION	AT41_MB_B	
SW VERSION	ME3631U1AV1.0B06	
ACCESSORY DEVICE	Refer to note as below	
DATA CABLE	N/A	

NOTE:

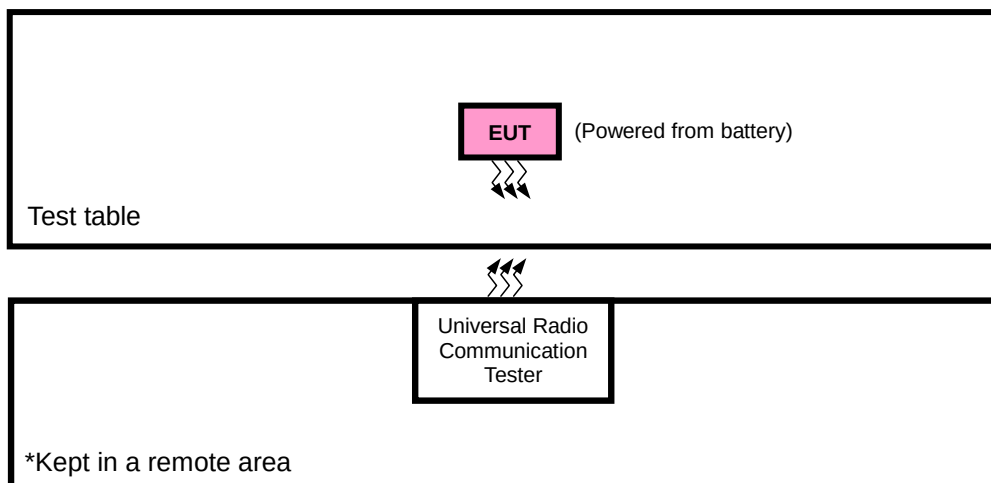
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION



FOR CONDUCTED & E.R.P./E.I.R.P TEST



2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A
2	PC	HP	A6608CN	3CR83825X3	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m
2	AC Line: Unshielded, Detachable 1.5m

NOTE:

1. All power cords of the above support units are non shielded (1.8m).

2.4 DESCRIPTION OF TEST MODES

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

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter + USB Cable with LTE link
B	EUT + Battery with LTE link

LTE BAND 4

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	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
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	6 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
B	PEAK TO AVERAGE RATIO	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
B	BAND EDGE	19957 to 20393	19957	1.4MHz	QPSK	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
		19965 to 20385	20393	1.4MHz	QPSK	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		19975 to 20375	19965	3MHz	QPSK	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
		20000 to 20350	20385	3MHz	QPSK	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		20025 to 20325	19975	5MHz	QPSK	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
		20050 to 20300	20375	5MHz	QPSK	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		20000 to 20350	20000	10MHz	QPSK	1 RB / 0 RB Offset
						50 RB / 0 RB Offset
		20025 to 20325	20350	10MHz	QPSK	1 RB / 49 RB Offset
						50 RB / 0 RB Offset

B	BAND EDGE	20025 to 20325	20025	15MHz	QPSK	1 RB / 0 RB Offset
						75 RB / 0 RB Offset
		20050 to 20300	20325	15MHz	QPSK	1 RB / 74 RB Offset
						75 RB / 0 RB Offset
			20050	20MHz	QPSK	1 RB / 0 RB Offset
						100 RB / 0 RB Offset
B	CONDCUDETED EMISSION	19957 to 20393	20300	20MHz	QPSK	1 RB / 99 RB Offset
						100 RB / 0 RB Offset
		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
A	RADIATED EMISSION	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
		19957 to 20393	20175	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
A	RADIATED EMISSION	20025 to 20325	20175	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	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

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
B	ERP	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	23017 to 23173	23017, 23173	1.4MHz	QPSK	1 RB / 0 RB Offset
		23025 to 23165	23025, 23165	3MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035, 23155	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060, 23130	10MHz	QPSK	1 RB / 0 RB Offset
B	OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK,16QAM	50 RB / 0 RB Offset
B	PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
B	BAND EDGE	23017 to 23173	23017	1.4MHz	QPSK	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
		23025 to 23165	23173	1.4MHz	QPSK	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		23035 to 23155	23025	3MHz	QPSK	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
		23060 to 23130	23165	3MHz	QPSK	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		23017 to 23173	23035	5MHz	QPSK	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
		23025 to 23165	23155	5MHz	QPSK	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
B	CONDCUETED EMISSION	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK	1 RB / 0 RB Offset
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK	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

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP(ERP)	24deg. C, 60%RH	3.7Vdc from Battery	Star Le
FREQUENCY STABILITY	24deg. C, 61%RH	DC 9V/12V/16V	Wenliang Wu
OCCUPIED BANDWIDTH	24deg. C, 61%RH	3.7Vdc from Battery	Wenliang Wu
PEAK TO AVERAGE RATIO	24deg. C, 61%RH	3.7Vdc from Battery	Wenliang Wu
BAND EDGE	24deg. C, 61%RH	3.7Vdc from Battery	Wenliang Wu
CONDUCTED EMISSION	24deg. C, 61%RH	3.7Vdc from Battery	Wenliang Wu
RADIATED EMISSION	24deg. C, 60%RH	DC 12V	Star Le

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

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

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

Portable stations (hand-held devices) operating in the 699-716 MHz bands are limited to 3 watts ERP.

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

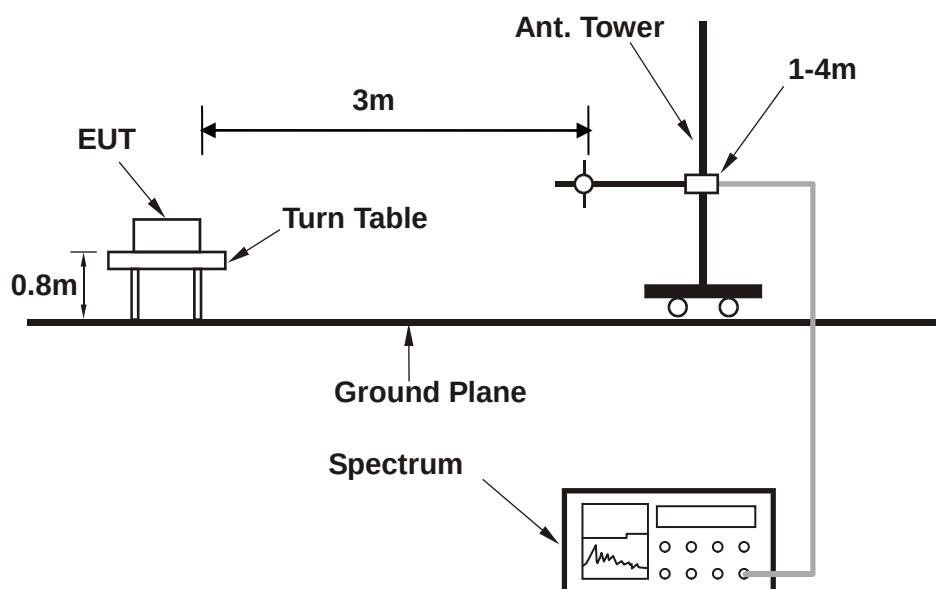
- a. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RBW and VBW is 10MHz for LTE.
- b. E.I.R.P power measurement. In the semi-anechoic 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.
- c. 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
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$
- e. $E.R.P = E.I.R.P - 2.15 \text{ dB}$

CONDUCTED POWER MEASUREMENT:

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

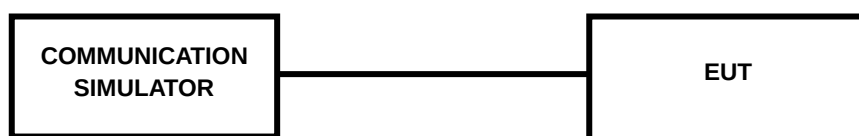
3.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



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

CONDUCTED POWER MEASUREMENT:



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

3.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 19957	Mid CH 20175	High CH 20393	MPR
				Frequency 1710.7 MHz	Frequency 1732.5 MHz	Frequency 1754.3 MHz	
1.4MHz	QPSK	1	0	21.85	22.13	22.42	0
		1	2	21.83	22.11	22.40	0
		1	5	21.80	22.08	22.37	0
		3	0	21.83	22.11	22.40	0
		3	1	21.81	22.09	22.38	0
		3	3	21.78	22.06	22.35	0
		6	0	20.68	20.96	21.25	1
	16QAM	1	0	20.61	20.89	21.18	1
		1	2	20.60	20.88	21.17	1
		1	5	20.41	20.69	20.98	1
		3	0	20.60	20.88	21.17	1
		3	1	20.59	20.87	21.16	1
		3	3	20.40	20.68	20.97	1
		6	0	19.76	20.04	20.33	2
BW	Modulation	RB Size	RB Offset	Low CH 19965	Mid CH 20175	High CH 20385	MPR
				Frequency 1711.5 MHz	Frequency 1732.5 MHz	Frequency 1753.5 MHz	
3 MHz	QPSK	1	0	21.86	22.14	22.43	0
		1	7	21.84	22.12	22.41	0
		1	14	21.81	22.09	22.38	0
		8	0	20.88	21.16	21.45	1
		8	3	20.79	21.07	21.36	1
		8	7	20.77	21.05	21.34	1
		15	0	20.69	20.97	21.26	1
	16QAM	1	0	20.62	20.90	21.19	1
		1	7	20.61	20.89	21.18	1
		1	14	20.42	20.70	20.99	1
		8	0	19.91	20.19	20.48	2
		8	3	19.85	20.13	20.42	2
		8	7	19.82	20.10	20.39	2
		15	0	19.77	20.05	20.34	2

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 19975	Mid CH 20175	High CH 20375	MPR
				Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz	
5 MHz	QPSK	1	0	21.89	22.17	22.46	0
		1	12	21.87	22.15	22.44	0
		1	24	21.84	22.12	22.41	0
		12	0	20.91	21.19	21.48	1
		12	6	20.82	21.10	21.39	1
		12	13	20.80	21.08	21.37	1
		25	0	20.72	21.00	21.29	1
	16QAM	1	0	20.65	20.93	21.22	1
		1	12	20.64	20.92	21.21	1
		1	24	20.45	20.73	21.02	1
		12	0	19.94	20.22	20.51	2
		12	6	19.88	20.16	20.45	2
		12	13	19.85	20.13	20.42	2
		25	0	19.80	20.08	20.37	2
BW	Modulation	RB Size	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350	MPR
				Frequency 1715 MHz	Frequency 1732.5 MHz	Frequency 1750 MHz	
10 MHz	QPSK	1	0	21.93	22.21	22.50	0
		1	24	21.91	22.19	22.48	0
		1	49	21.88	22.16	22.45	0
		25	0	20.95	21.23	21.52	1
		25	12	20.86	21.14	21.43	1
		25	25	20.84	21.12	21.41	1
		50	0	20.76	21.04	21.33	1
	16QAM	1	0	20.69	20.97	21.26	1
		1	24	20.68	20.96	21.25	1
		1	49	20.49	20.77	21.06	1
		25	0	19.98	20.26	20.55	2
		25	12	19.92	20.20	20.49	2
		25	25	19.89	20.17	20.46	2
		50	0	19.84	20.12	20.41	2

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 20025	Mid CH 20175	High CH 20325	MPR
				Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz	
15 MHz	QPSK	1	0	21.99	22.27	22.56	0
		1	37	21.97	22.25	22.54	0
		1	74	21.94	22.22	22.51	0
		36	0	21.01	21.29	21.58	1
		36	19	20.92	21.20	21.49	1
		36	39	20.90	21.18	21.47	1
		75	0	20.82	21.10	21.39	1
	16QAM	1	0	20.75	21.03	21.32	1
		1	37	20.74	21.02	21.31	1
		1	74	20.55	20.83	21.12	1
		36	0	20.04	20.32	20.61	2
		36	19	19.98	20.26	20.55	2
		36	39	19.95	20.23	20.52	2
		75	0	19.90	20.18	20.47	2
BW	Modulation	RB Size	RB Offset	Low CH 20050	Mid CH 20175	High CH 20300	MPR
				Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz	
20MHz	QPSK	1	0	22.02	22.30	22.59	0
		1	50	22.00	22.28	22.57	0
		1	99	21.97	22.25	22.54	0
		50	0	21.04	21.32	21.61	1
		50	25	20.95	21.23	21.52	1
		50	50	20.93	21.21	21.50	1
		100	0	20.85	21.13	21.42	1
	16QAM	1	0	20.78	21.06	21.35	1
		1	50	20.77	21.05	21.34	1
		1	99	20.58	20.86	21.15	1
		50	0	20.07	20.35	20.64	2
		50	25	20.01	20.29	20.58	2
		50	50	19.98	20.26	20.55	2
		100	0	19.93	20.21	20.50	2

LTE Band 12							
BW	Modulation	RB Size	RB Offset	Low CH 23017	Mid CH 23095	High CH 23173	MPR
				Frequency 699.7 MHz	Frequency 707.5 MHz	Frequency 715.3 MHz	
1.4 MHz	QPSK	1	0	23.08	23.29	23.17	0
		1	2	23.00	23.21	23.09	0
		1	5	22.91	23.12	23.00	0
		3	0	23.06	23.27	23.15	0
		3	1	22.98	23.19	23.07	0
		3	3	22.89	23.10	22.98	0
		6	0	22.02	22.23	22.11	1
	16QAM	1	0	21.70	21.91	21.79	1
		1	2	21.68	21.89	21.77	1
		1	5	21.28	21.49	21.37	1
		3	0	21.69	21.90	21.78	1
		3	1	21.67	21.88	21.76	1
		3	3	21.27	21.48	21.36	1
		6	0	21.03	21.24	21.12	2
LTE Band 12							
BW	Modulation	RB Size	RB Offset	Low CH 23025	Mid CH 23095	High CH 23165	MPR
				Frequency 700.5 MHz	Frequency 707.5 MHz	Frequency 714.5 MHz	
3 MHz	QPSK	1	0	23.12	23.33	23.21	0
		1	7	23.04	23.25	23.13	0
		1	14	22.95	23.16	23.04	0
		8	0	22.16	22.37	22.25	1
		8	3	22.13	22.34	22.22	1
		8	7	22.10	22.31	22.19	1
		15	0	22.06	22.27	22.15	1
	16QAM	1	0	21.74	21.95	21.83	1
		1	7	21.72	21.93	21.81	1
		1	14	21.32	21.53	21.41	1
		8	0	21.20	21.41	21.29	2
		8	3	21.17	21.38	21.26	2
		8	7	21.12	21.33	21.21	2
		15	0	21.07	21.28	21.16	2

LTE Band 12							
BW	Modulation	RB Size	RB Offset	Low CH 23035	Mid CH 23095	High CH 23155	MPR
				Frequency 701.5 MHz	Frequency 707.5 MHz	Frequency 713.5 MHz	
5 MHz	QPSK	1	0	23.18	23.39	23.27	0
		1	12	23.10	23.31	23.19	0
		1	24	23.01	23.22	23.10	0
		12	0	22.22	22.43	22.31	1
		12	6	22.19	22.40	22.28	1
		12	13	22.16	22.37	22.25	1
		25	0	22.12	22.33	22.21	1
	16QAM	1	0	21.80	22.01	21.89	1
		1	12	21.78	21.99	21.87	1
		1	24	21.38	21.59	21.47	1
		12	0	21.26	21.47	21.35	2
		12	6	21.23	21.44	21.32	2
		12	13	21.18	21.39	21.27	2
		25	0	21.13	21.34	21.22	2
LTE Band 12							
BW	Modulation	RB Size	RB Offset	Low CH 23060	Mid CH 23095	High CH 23130	MPR
				Frequency 704 MHz	Frequency 707.5 MHz	Frequency 711 MHz	
10 MHz	QPSK	1	0	23.21	23.42	23.30	0
		1	24	23.13	23.34	23.22	0
		1	49	23.04	23.25	23.13	0
		25	0	22.25	22.46	22.34	1
		25	12	22.22	22.43	22.31	1
		25	25	22.19	22.40	22.28	1
		50	0	22.15	22.36	22.24	1
	16QAM	1	0	21.83	22.04	21.92	1
		1	24	21.81	22.02	21.90	1
		1	49	21.41	21.62	21.50	1
		25	0	21.29	21.50	21.38	2
		25	12	21.26	21.47	21.35	2
		25	25	21.21	21.42	21.30	2
		50	0	21.16	21.37	21.25	2

EIRP

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19957	1710.7	-22.00	41.29	19.29	85.00	H	1
20175	1732.5	-21.09	41.36	20.27	106.41	H	1
20393	1754.3	-21.96	42.74	20.78	119.62	H	1
19957	1710.7	-18.08	44.25	26.17	413.52	V	1
20175	1732.5	-17.30	44.20	26.90	489.78	V	1
20393	1754.3	-17.71	44.09	26.38	434.01	V	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19957	1710.7	-22.87	41.29	18.42	69.57	H	1
20175	1732.5	-22.02	41.36	19.34	85.90	H	1
20393	1754.3	-22.92	42.74	19.82	95.90	H	1
19957	1710.7	-18.95	44.25	25.30	338.45	V	1
20175	1732.5	-18.23	44.20	25.97	395.37	V	1
20393	1754.3	-18.67	44.09	25.42	347.94	V	1

LTE BAND 4

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19965	1711.5	-21.98	41.27	19.29	84.86	H	1
20175	1732.5	-21.15	41.36	20.21	104.95	H	1
20385	1753.5	-21.91	42.76	20.85	121.53	H	1
19965	1711.5	-18.06	44.26	26.20	417.06	V	1
20175	1732.5	-17.36	44.20	26.84	483.06	V	1
20385	1753.5	-17.66	44.23	26.57	454.15	V	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19965	1711.5	-23.05	41.27	18.22	66.33	H	1
20175	1732.5	-22.04	41.36	19.32	85.51	H	1
20385	1753.5	-22.90	42.76	19.86	96.76	H	1
19965	1711.5	-19.13	44.26	25.13	325.99	V	1
20175	1732.5	-18.25	44.20	25.95	393.55	V	1
20385	1753.5	-18.65	44.23	25.58	361.58	V	1

LTE BAND 4

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19975	1712.5	-22.04	41.39	19.35	86.08	H	1
20175	1732.5	-21.10	41.36	20.26	106.17	H	1
20375	1752.5	-21.86	42.63	20.77	119.37	H	1
19975	1712.5	-18.12	44.17	26.05	402.35	V	1
20175	1732.5	-17.31	44.20	26.89	488.65	V	1
20375	1752.5	-17.61	44.35	26.74	471.52	V	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19975	1712.5	-22.87	41.39	18.52	71.10	H	1
20175	1732.5	-22.12	41.36	19.24	83.95	H	1
20375	1752.5	-22.96	42.63	19.67	92.66	H	1
19975	1712.5	-18.95	44.17	25.22	332.35	V	1
20175	1732.5	-18.33	44.20	25.87	386.37	V	1
20375	1752.5	-18.71	44.35	25.64	366.02	V	1

LTE BAND 4

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20000	1715.0	-21.85	41.49	19.64	91.96	H	1
20175	1732.5	-21.04	41.36	20.32	107.65	H	1
20350	1750.0	-21.73	42.28	20.55	113.58	H	1
20000	1715.0	-17.93	44.06	26.13	410.49	V	1
20175	1732.5	-17.25	44.20	26.95	495.45	V	1
20350	1750.0	-17.48	44.43	26.95	495.45	V	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20000	1715.0	-23.00	41.49	18.49	70.57	H	1
20175	1732.5	-22.14	41.36	19.22	83.56	H	1
20350	1750.0	-22.89	42.28	19.39	86.96	H	1
20000	1715.0	-19.08	44.06	24.98	314.99	V	1
20175	1732.5	-18.35	44.20	25.85	384.59	V	1
20350	1750.0	-18.64	44.43	25.79	379.31	V	1

LTE BAND 4

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20025	1717.5	-21.86	41.34	19.48	88.67	H	1
20175	1732.5	-21.11	41.36	20.25	105.93	H	1
20325	1747.5	-21.80	42.09	20.29	106.81	H	1
20025	1717.5	-17.94	44.04	26.10	407.76	V	1
20175	1732.5	-17.32	44.20	26.88	487.53	V	1
20325	1747.5	-17.55	44.22	26.67	463.98	V	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20025	1717.5	-22.72	41.34	18.62	72.74	H	1
20175	1732.5	-21.98	41.36	19.38	86.70	H	1
20325	1747.5	-22.65	42.09	19.44	87.82	H	1
20025	1717.5	-18.80	44.04	25.24	334.50	V	1
20175	1732.5	-18.19	44.20	26.01	399.02	V	1
20325	1747.5	-18.40	44.22	25.82	381.50	V	1

LTE BAND 4

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20050	1720.0	-22.44	41.28	18.84	76.58	H	1
20175	1732.5	-21.56	41.36	19.80	95.52	H	1
20300	1745.0	-22.38	41.96	19.58	90.72	H	1
20050	1720.0	-18.52	44.14	25.62	364.33	V	1
20175	1732.5	-17.77	44.20	26.43	439.14	V	1
20300	1745.0	-18.13	43.88	25.75	376.01	V	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20050	1720.0	-23.37	41.28	17.91	61.82	H	1
20175	1732.5	-22.63	41.36	18.73	74.66	H	1
20300	1745.0	-23.21	41.96	18.75	74.94	H	1
20050	1720.0	-19.45	44.14	24.69	294.10	V	1
20175	1732.5	-18.84	44.20	25.36	343.24	V	1
20300	1745.0	-18.96	43.88	24.92	310.60	V	1

REMARKS: 1. EIRP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB).

2. Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss

LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23017	699.7	-15.46	32.77	15.16	32.81	H	3
23095	707.5	-14.45	33.23	16.63	46.03	H	3
23173	715.3	-13.46	33.14	17.53	56.60	H	3
23017	699.7	-8.49	32.42	21.78	150.52	V	3
23095	707.5	-7.55	32.60	22.90	194.98	V	3
23173	715.3	-7.69	32.19	22.35	171.63	V	3

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23017	699.7	-16.29	32.77	14.33	27.10	H	3
23095	707.5	-15.47	33.23	15.61	36.39	H	3
23173	715.3	-14.56	33.14	16.43	43.93	H	3
23017	699.7	-9.32	32.42	20.95	124.34	V	3
23095	707.5	-8.57	32.60	21.88	154.17	V	3
23173	715.3	-8.79	32.19	21.25	133.23	V	3

LTE BAND 12

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23025	700.5	-15.27	32.63	15.21	33.20	H	3
23095	707.5	-14.39	33.23	16.69	46.67	H	3
23165	714.5	-13.33	33.21	17.73	59.22	H	3
23025	700.5	-8.30	32.33	21.88	154.06	V	3
23095	707.5	-7.49	32.60	22.96	197.70	V	3
23165	714.5	-7.56	32.30	22.59	181.59	V	3

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23025	700.5	-16.42	32.63	14.06	25.47	H	3
23095	707.5	-15.49	33.23	15.59	36.22	H	3
23165	714.5	-14.49	33.21	16.57	45.34	H	3
23025	700.5	-9.45	32.33	20.73	118.22	V	3
23095	707.5	-8.59	32.60	21.86	153.46	V	3
23165	714.5	-8.72	32.30	21.43	139.03	V	3

LTE BAND 12

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23035	701.5	-15.28	32.53	15.10	32.32	H	3
23095	707.5	-14.46	33.23	16.62	45.90	H	3
23155	713.5	-13.40	33.29	17.74	59.39	H	3
23035	701.5	-8.31	32.25	21.79	151.15	V	3
23095	707.5	-7.56	32.60	22.89	194.54	V	3
23155	713.5	-7.63	32.39	22.61	182.22	V	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23035	701.5	-16.14	32.53	14.24	26.52	H	3
23095	707.5	-15.33	33.23	15.75	37.57	H	3
23155	713.5	-14.25	33.29	16.89	48.83	H	3
23035	701.5	-9.17	32.25	20.93	123.99	V	3
23095	707.5	-8.43	32.60	22.02	159.22	V	3
23155	713.5	-8.48	32.39	21.76	149.83	V	3

LTE BAND 12

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23060	704.0	-15.86	32.68	14.67	29.33	H	3
23095	707.5	-14.91	33.23	16.17	41.40	H	3
23130	711.0	-13.98	33.39	17.26	53.17	H	3
23060	704.0	-8.89	32.37	21.33	135.77	V	3
23095	707.5	-8.01	32.60	22.44	175.39	V	3
23130	711.0	-8.21	32.56	22.20	165.77	V	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23060	704.0	-16.79	32.68	13.74	23.68	H	3
23095	707.5	-15.98	33.23	15.10	32.36	H	3
23130	711.0	-14.81	33.39	16.43	43.92	H	3
23060	704.0	-9.82	32.37	20.40	109.60	V	3
23095	707.5	-9.08	32.60	21.37	137.09	V	3
23130	711.0	-9.04	32.56	21.37	136.93	V	3

REMARKS: 1. ERP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB) -2.15(dB).
2. Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

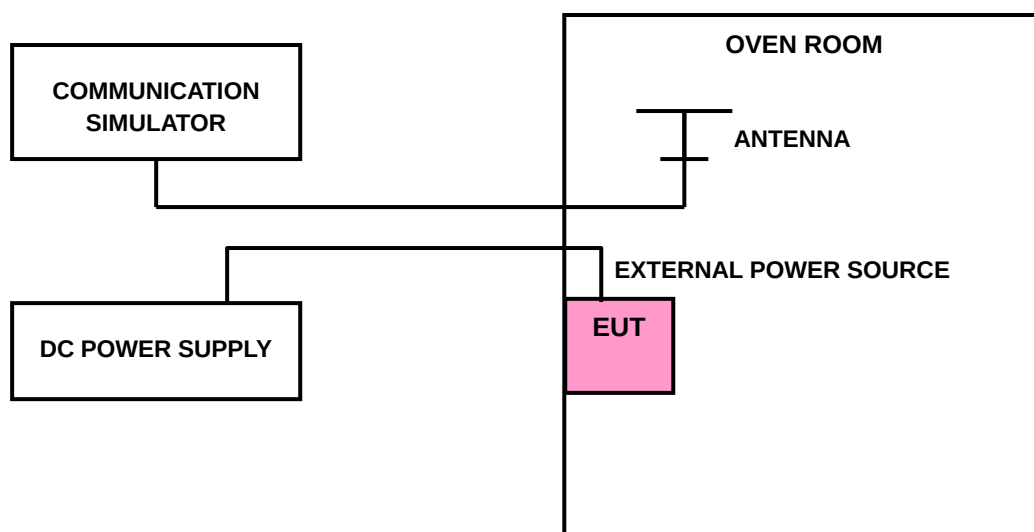
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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



3.2.4 TEST RESULTS

LTE BAND 4

FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	1.4MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
12	0.0014	0.0016	2.5
9	0.0012	0.0014	2.5
16	0.0011	0.0013	2.5

NOTE: The applicant defined the normal working voltage of the DC source is from 9Vdc to 16Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

TEMP. (°C)	1.4MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
-30	-0.0060	-0.0062	2.5
-20	-0.0056	-0.0057	2.5
-10	-0.0047	-0.0048	2.5
0	-0.0040	-0.0041	2.5
10	-0.0034	-0.0034	2.5
20	-0.0026	-0.0027	2.5
30	-0.0023	-0.0023	2.5
40	-0.0018	-0.0019	2.5
50	-0.0014	-0.0015	2.5

FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	3MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
12	0.0014	0.0015	2.5
9	0.0013	0.0013	2.5
16	0.0011	0.0012	2.5

NOTE: The applicant defined the normal working voltage of the DC source is from 9Vdc to 16Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

TEMP. (°C)	3MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
-30	-0.0065	-0.0064	2.5
-20	-0.0059	-0.0058	2.5
-10	-0.0056	-0.0055	2.5
0	-0.0048	-0.0047	2.5
10	-0.0041	-0.0040	2.5
20	-0.0033	-0.0032	2.5
30	-0.0026	-0.0025	2.5
40	-0.0023	-0.0022	2.5
50	-0.0018	-0.0018	2.5

FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	5MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
12	0.0017	0.0017	2.5
9	0.0012	0.0015	2.5
16	0.0012	0.0012	2.5

NOTE: The applicant defined the normal working voltage of the DC source is from 9Vdc to 16Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

TEMP. (°C)	5MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
-30	-0.0066	-0.0063	2.5
-20	-0.0061	-0.0058	2.5
-10	-0.0055	-0.0053	2.5
0	-0.0051	-0.0049	2.5
10	-0.0041	-0.0039	2.5
20	-0.0036	-0.0034	2.5
30	-0.0030	-0.0029	2.5
40	-0.0022	-0.0021	2.5
50	-0.0019	-0.0018	2.5

FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	10MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
12	0.0014	0.0015	2.5
9	0.0013	0.0011	2.5
16	0.0012	0.0008	2.5

NOTE: The applicant defined the normal working voltage of the DC source is from 9Vdc to 16Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

TEMP. (°C)	10MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
-30	-0.0061	-0.0063	2.5
-20	-0.0058	-0.0059	2.5
-10	-0.0050	-0.0052	2.5
0	-0.0046	-0.0048	2.5
10	-0.0039	-0.0039	2.5
20	-0.0031	-0.0032	2.5
30	-0.0029	-0.0030	2.5
40	-0.0022	-0.0023	2.5
50	-0.0014	-0.0015	2.5

FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	15MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
12	0.0015	0.0016	2.5
9	0.0013	0.0013	2.5
16	0.0012	0.0011	2.5

NOTE: The applicant defined the normal working voltage of the DC source is from 9Vdc to 16Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

TEMP. (°C)	15MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
-30	-0.0061	-0.0062	2.5
-20	-0.0056	-0.0057	2.5
-10	-0.0049	-0.0050	2.5
0	-0.0043	-0.0043	2.5
10	-0.0036	-0.0037	2.5
20	-0.0033	-0.0034	2.5
30	-0.0029	-0.0029	2.5
40	-0.0024	-0.0024	2.5
50	-0.0018	-0.0019	2.5

FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	20MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
12	0.0019	0.0013	2.5
9	0.0012	0.0013	2.5
16	0.0008	0.0011	2.5

NOTE: The applicant defined the normal working voltage of the DC source is from 9Vdc to 16Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

TEMP. (°C)	20MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
-30	-0.0064	-0.0064	2.5
-20	-0.0059	-0.0060	2.5
-10	-0.0052	-0.0053	2.5
0	-0.0044	-0.0045	2.5
10	-0.0038	-0.0038	2.5
20	-0.0031	-0.0032	2.5
30	-0.0029	-0.0029	2.5
40	-0.0022	-0.0022	2.5
50	-0.0018	-0.0018	2.5

LTE BAND 12

FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	1.4MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
12	0.0018	0.0019	2.5
9	0.0016	0.0015	2.5
16	0.0010	0.0012	2.5

NOTE: The applicant defined the normal working voltage of the DC source is from 9Vdc to 16Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

TEMP. (°C)	1.4MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
-30	-0.0064	-0.0065	2.5
-20	-0.0058	-0.0059	2.5
-10	-0.0053	-0.0054	2.5
0	-0.0047	-0.0048	2.5
10	-0.0040	-0.0041	2.5
20	-0.0032	-0.0033	2.5
30	-0.0029	-0.0030	2.5
40	-0.0024	-0.0024	2.5
50	-0.0017	-0.0017	2.5

FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	3MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
12	0.0018	0.0017	2.5
9	0.0012	0.0013	2.5
16	0.0010	0.0010	2.5

NOTE: The applicant defined the normal working voltage of the DC source is from 9Vdc to 16Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

TEMP. (°C)	3MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
-30	-0.0063	-0.0062	2.5
-20	-0.0060	-0.0060	2.5
-10	-0.0056	-0.0055	2.5
0	-0.0048	-0.0047	2.5
10	-0.0043	-0.0042	2.5
20	-0.0036	-0.0035	2.5
30	-0.0029	-0.0028	2.5
40	-0.0023	-0.0023	2.5
50	-0.0019	-0.0018	2.5

FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	5MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
12	0.0018	0.0018	2.5
9	0.0014	0.0015	2.5
16	0.0012	0.0012	2.5

NOTE: The applicant defined the normal working voltage of the DC source is from 9Vdc to 16Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

TEMP. (°C)	5MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
-30	-0.0064	-0.0061	2.5
-20	-0.0061	-0.0058	2.5
-10	-0.0055	-0.0053	2.5
0	-0.0049	-0.0047	2.5
10	-0.0042	-0.0040	2.5
20	-0.0038	-0.0036	2.5
30	-0.0031	-0.0029	2.5
40	-0.0025	-0.0024	2.5
50	-0.0020	-0.0019	2.5

FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	10MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
12	0.0017	0.0018	2.5
9	0.0013	0.0015	2.5
16	0.0012	0.0013	2.5

NOTE: The applicant defined the normal working voltage of the DC source is from 9Vdc to 16Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

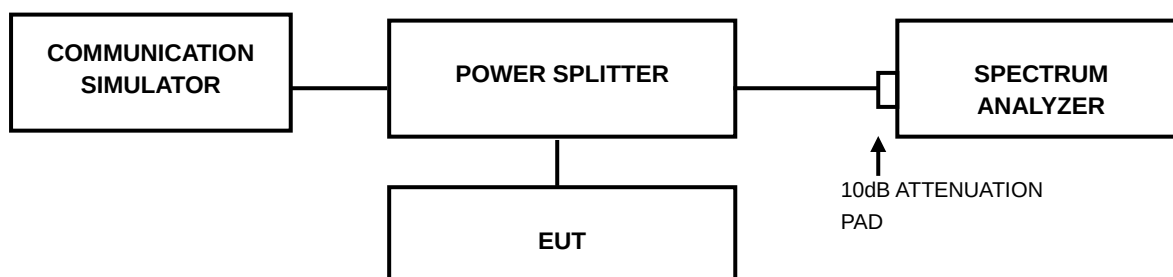
TEMP. (°C)	10MHz		LIMIT (ppm)
	FREQUENCY ERROR (ppm)		
	Low Channel	High Channel	
-30	-0.0060	-0.0061	2.5
-20	-0.0053	-0.0055	2.5
-10	-0.0048	-0.0049	2.5
0	-0.0042	-0.0043	2.5
10	-0.0035	-0.0036	2.5
20	-0.0029	-0.0030	2.5
30	-0.0024	-0.0025	2.5
40	-0.0019	-0.0019	2.5
50	-0.0017	-0.0018	2.5

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.

3.3.4 TEST RESULTS

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	Frequency (MHz)	99% OCCUPIED Bandwidth (MHz)		CHANNEL	Frequency (MHz)	99% OCCUPIED Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
19957	1710.7	1.08	1.08	19965	1711.5	2.68	2.69
20175	1732.5	1.09	1.08	20175	1732.5	2.68	2.68
20393	1754.3	1.09	1.08	20385	1753.5	2.68	2.68



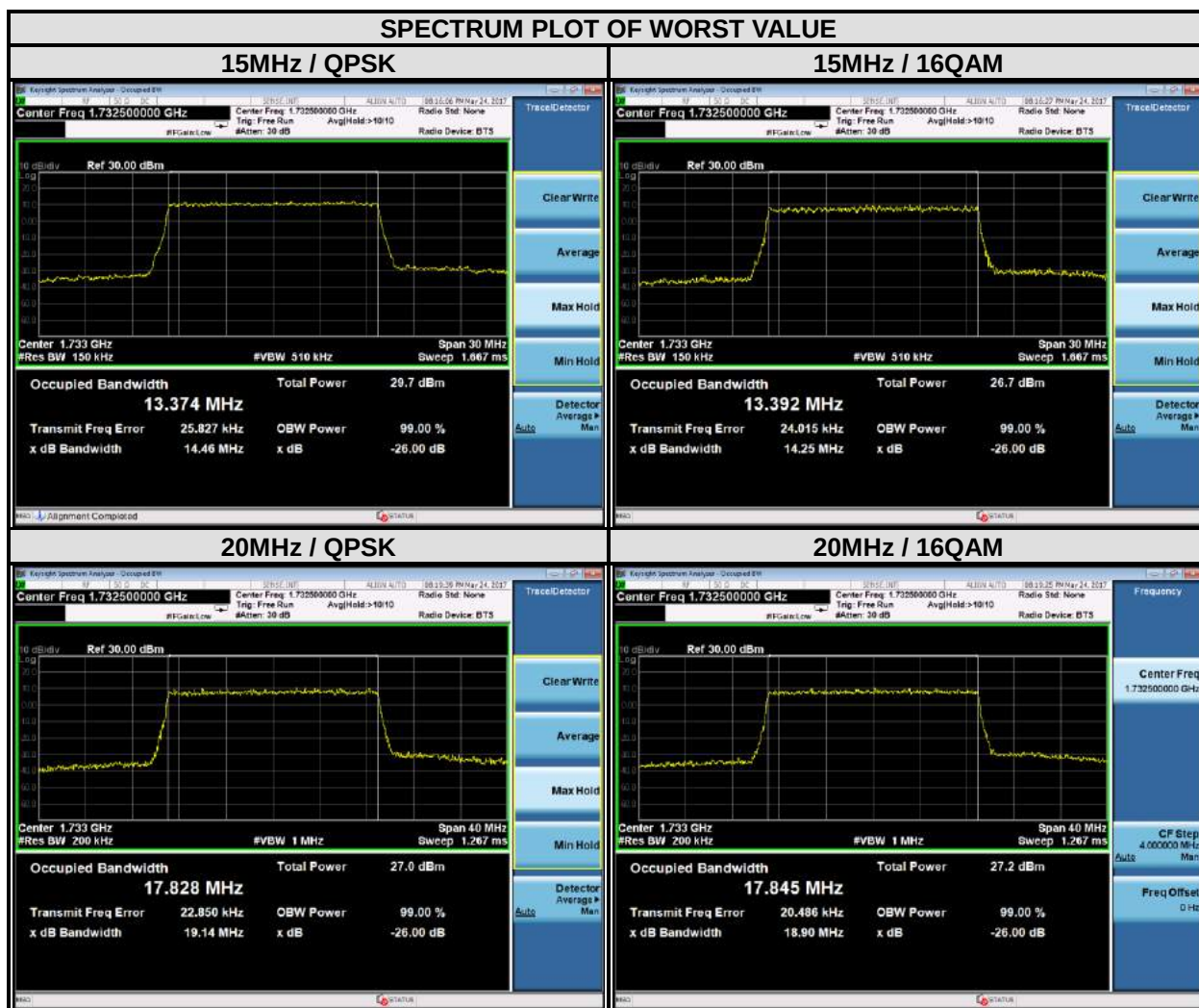
LTE BAND 4

CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	Frequency (MHz)	99% OCCUPIED Bandwidth (MHz)		CHANNEL	Frequency (MHz)	99% OCCUPIED Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
19975	1712.5	4.48	4.50	20000	1715	8.92	8.92
20175	1732.5	4.47	4.47	20175	1732.5	8.89	8.94
20375	1752.5	4.48	4.47	20350	1750	8.90	8.92



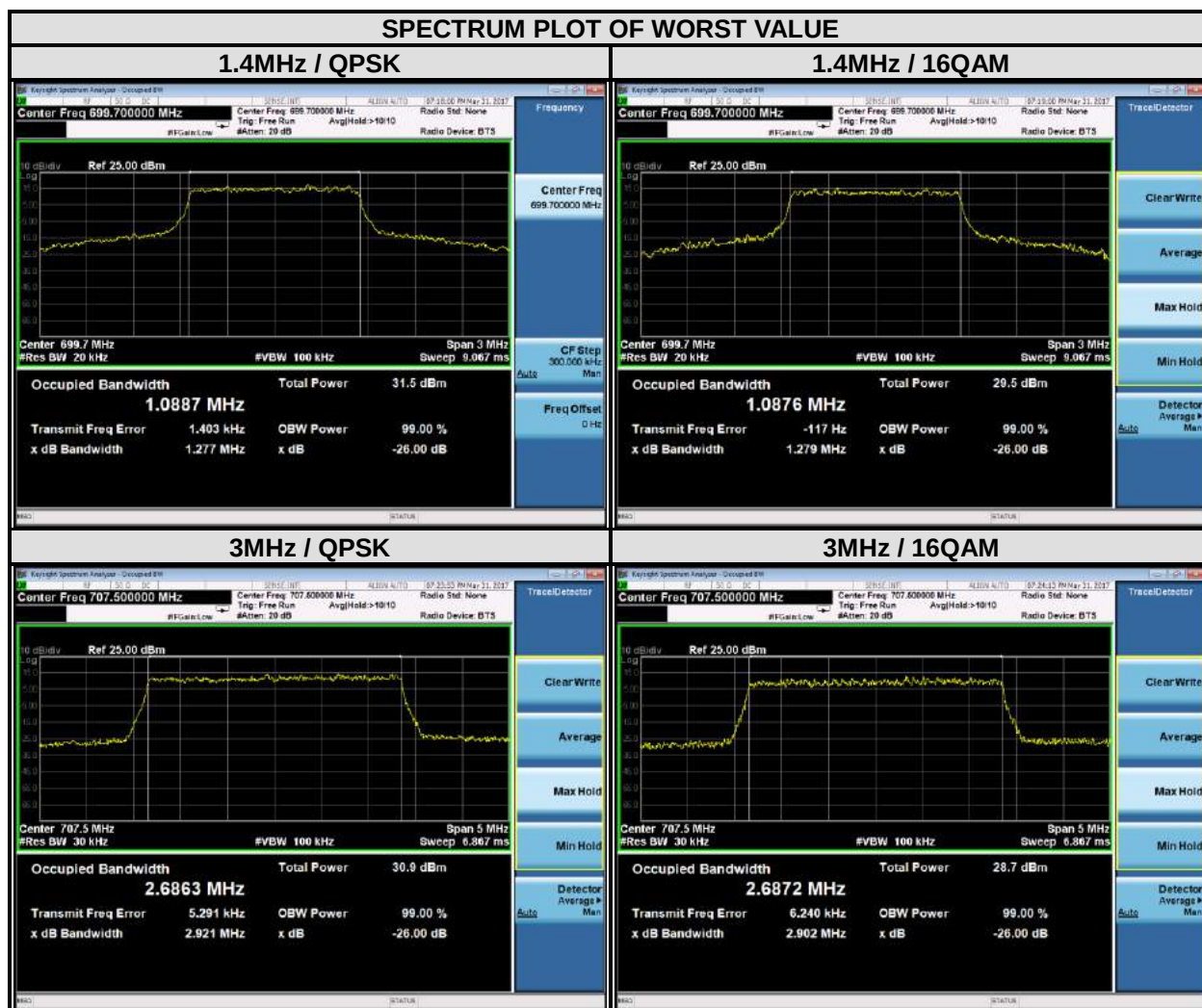
LTE BAND 4

CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
20025	1717.5	13.34	13.35	20050	1720	17.80	17.75
20175	1732.5	13.37	13.39	20175	1732.5	17.83	17.85
20325	1747.5	13.33	13.32	20300	1745	17.82	17.77



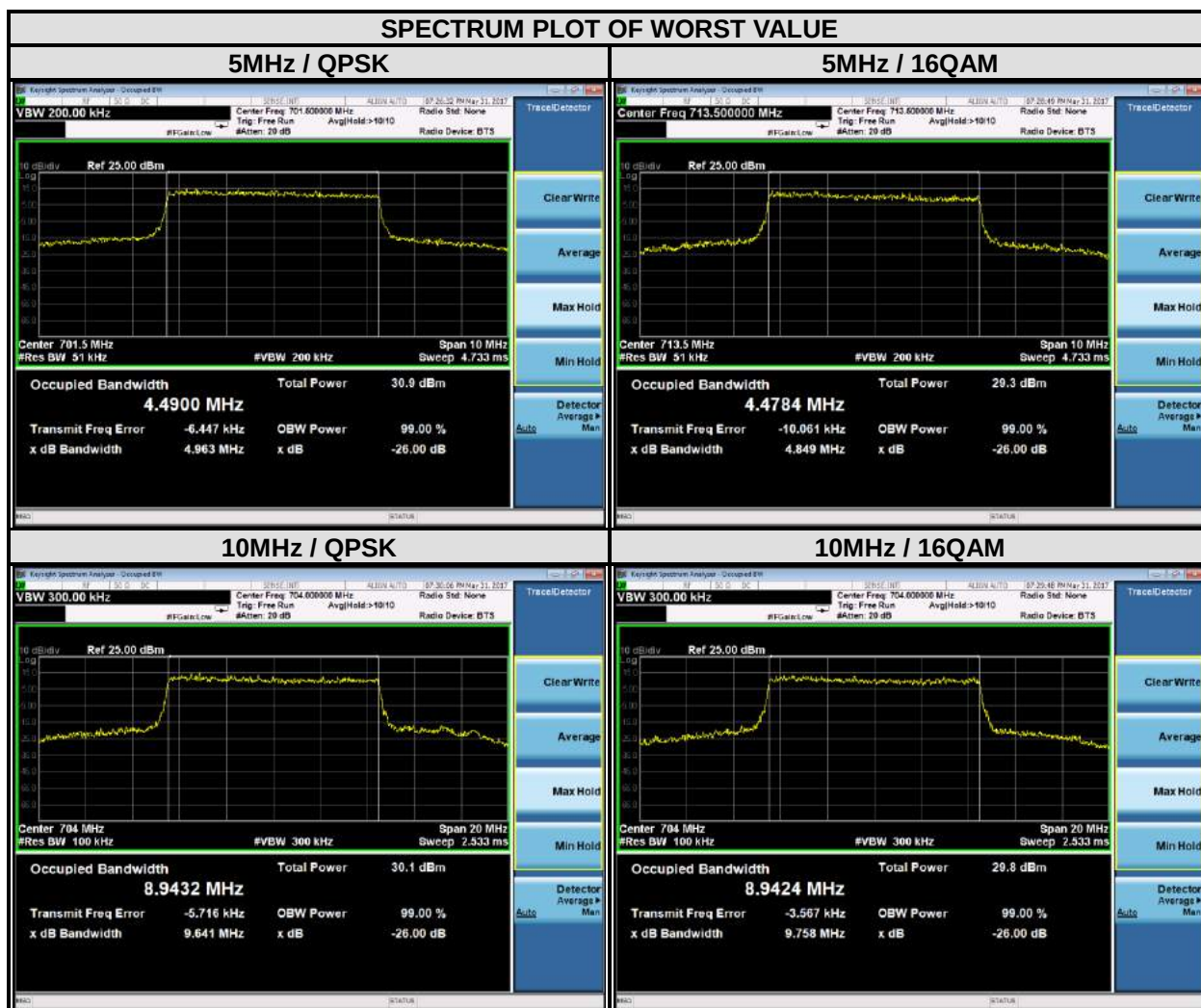
LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
23017	699.7	1.09	1.09	23025	700.5	2.69	2.68
23095	707.5	1.09	1.08	23095	707.5	2.69	2.69
23173	715.3	1.09	1.08	23165	714.5	2.68	2.68



LTE BAND 12

CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	Frequency (MHz)	99% OCCUPIED Bandwidth (MHz)		CHANNEL	Frequency (MHz)	99% OCCUPIED Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
23035	701.5	4.49	4.47	23060	704	8.94	8.94
23095	707.5	4.47	4.47	23095	707.5	8.93	8.92
23155	713.5	4.49	4.48	23130	711	8.82	8.87

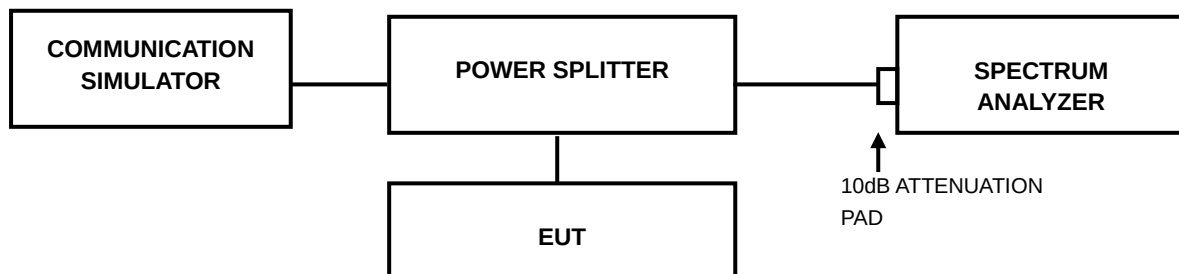


3.4 PEAK TO AVERAGE RATIO

3.4.1 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

3.4.2 TEST SETUP



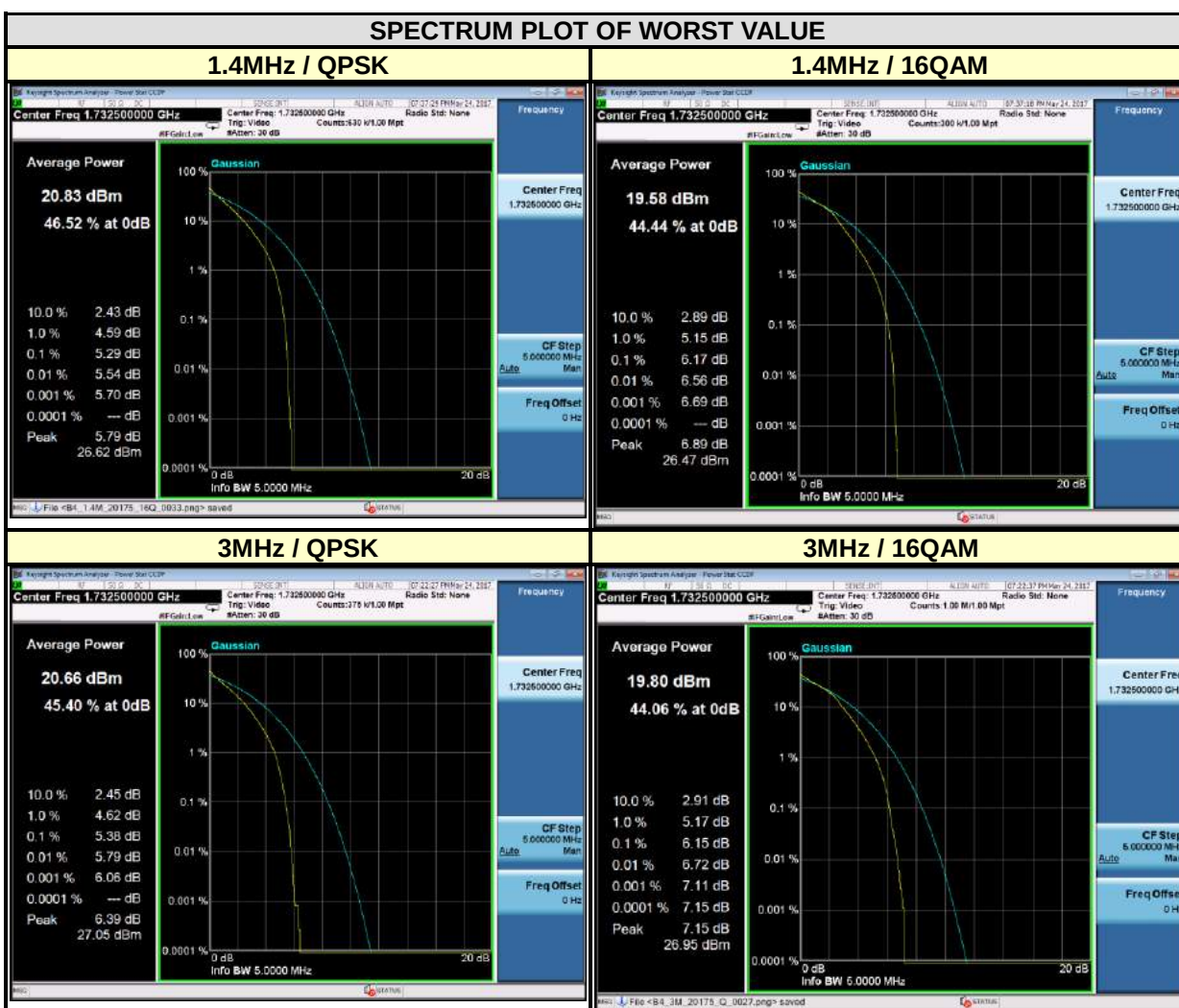
3.4.3 TEST PROCEDURES

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%.

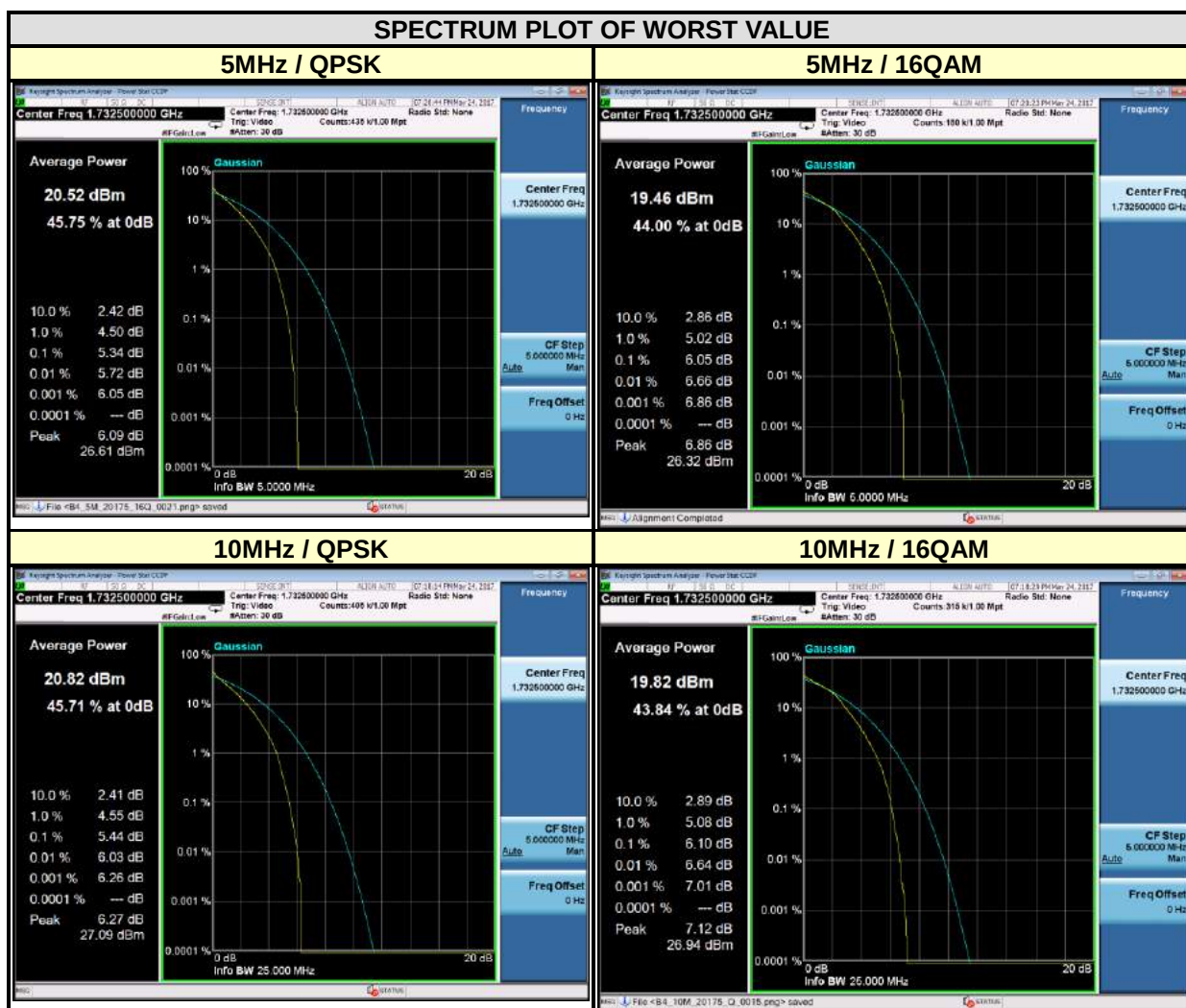
3.4.4 TEST RESULTS

LTE BAND 4

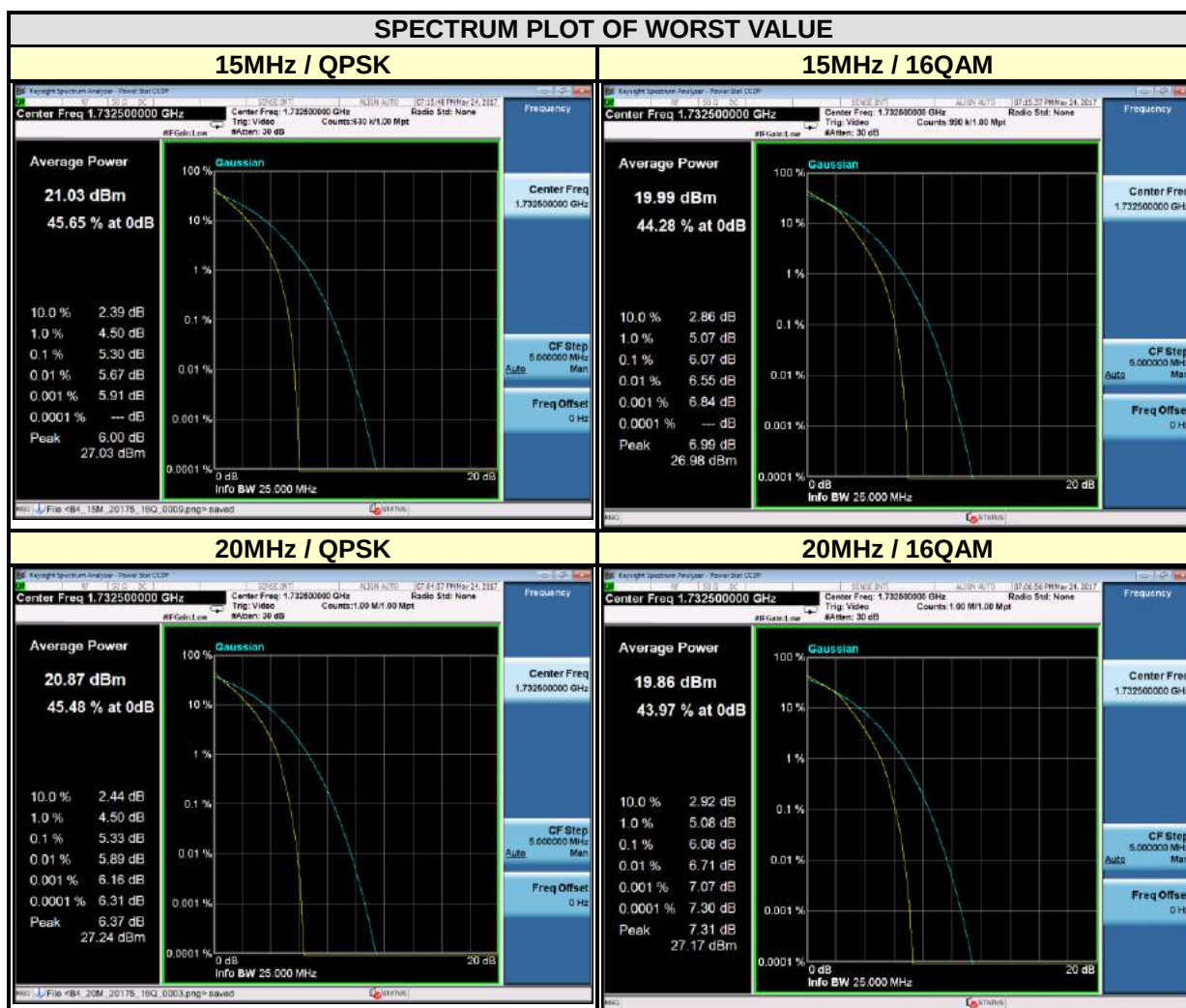
CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
19957	1710.7	4.77	5.61	19965	1711.5	4.83	5.69
20175	1732.5	5.29	6.17	20175	1732.5	5.38	6.15
20393	1754.3	4.24	5.13	20385	1753.5	4.36	5.23



CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
19975	1712.5	4.92	5.67	20000	1715	4.62	5.47
20175	1732.5	5.34	6.05	20175	1732.5	5.44	6.10
20375	1752.5	4.66	5.41	20350	1750	4.43	5.18

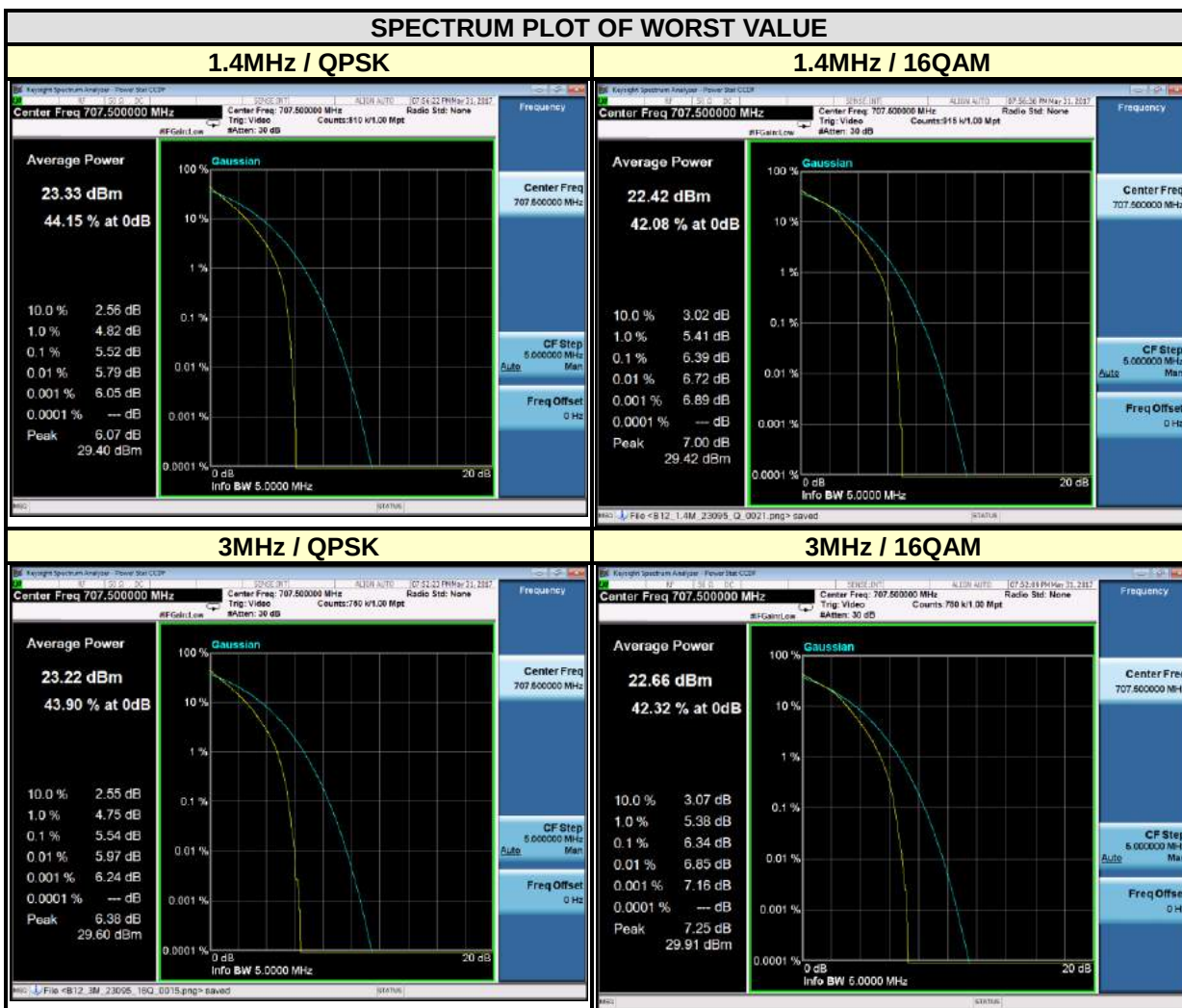


CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
20025	1717.5	4.80	5.59	20050	1720	4.90	5.68
20175	1732.5	5.30	6.07	20175	1732.5	5.33	6.08
20325	1747.5	4.67	5.47	20300	1745	4.81	5.64

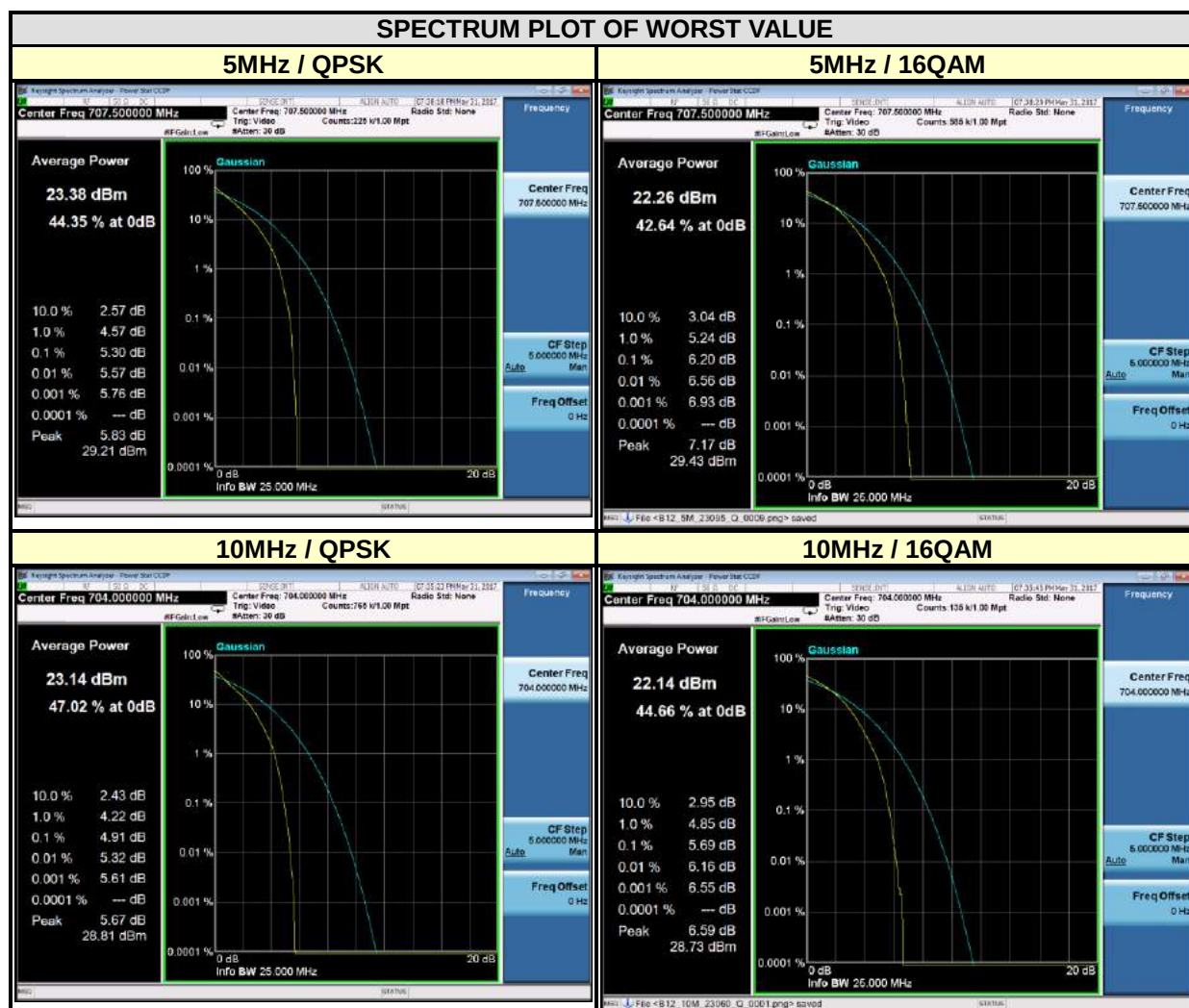


LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
23017	699.7	3.35	4.19	23025	700.5	3.68	4.44
23095	707.5	5.52	6.39	23095	707.5	5.54	6.34
23173	715.3	4.68	5.51	23165	714.5	4.29	5.04



CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
23035	701.5	3.79	4.51	23060	704	4.91	5.69
23095	707.5	5.30	6.20	23095	707.5	4.74	5.72
23155	713.5	4.09	4.82	23130	711	4.58	5.38



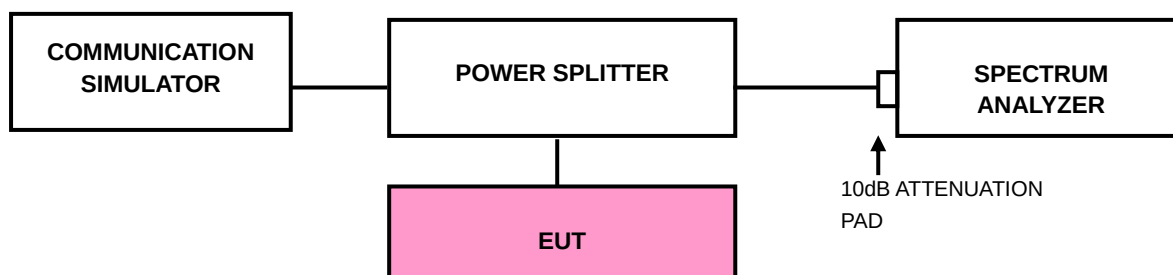
3.5 BAND EDGE MEASUREMENT

3.5.1 LIMITS OF BAND EDGE MEASUREMENT

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. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

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.

3.5.2 TEST SETUP

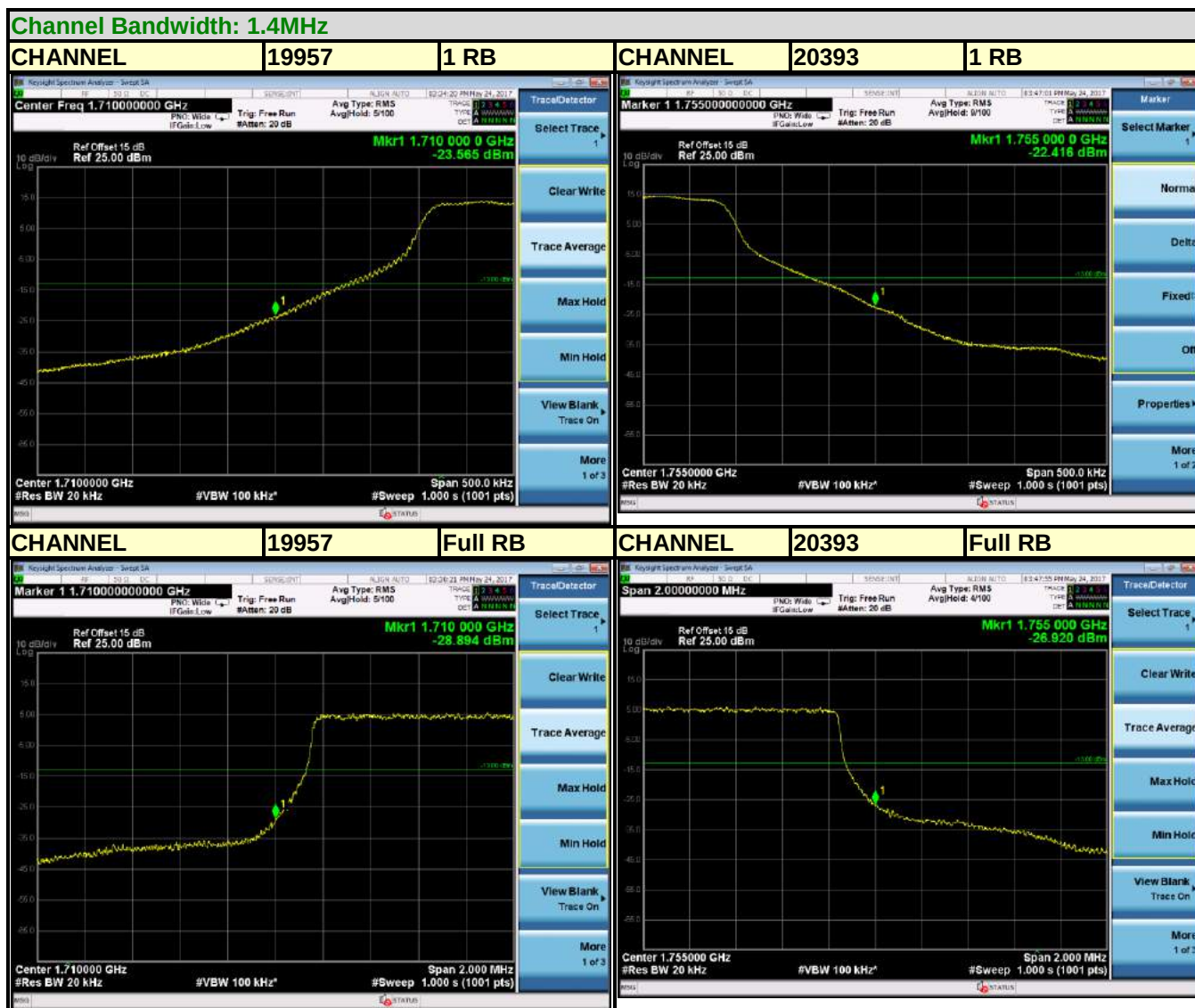


3.5.3 TEST PROCEDURES

- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 20kHz and VBW of the spectrum is 100 kHz. (LTE bandwidth 1.4MHz)
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 3MHz)
- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 50kHz and VBW of the spectrum is 200kHz. (LTE bandwidth 5MHz)
- f. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 10MHz)
- g. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 15MHz)
- h. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 20MHz)
- i. Record the max trace plot into the test report.

3.5.4 TEST RESULTS

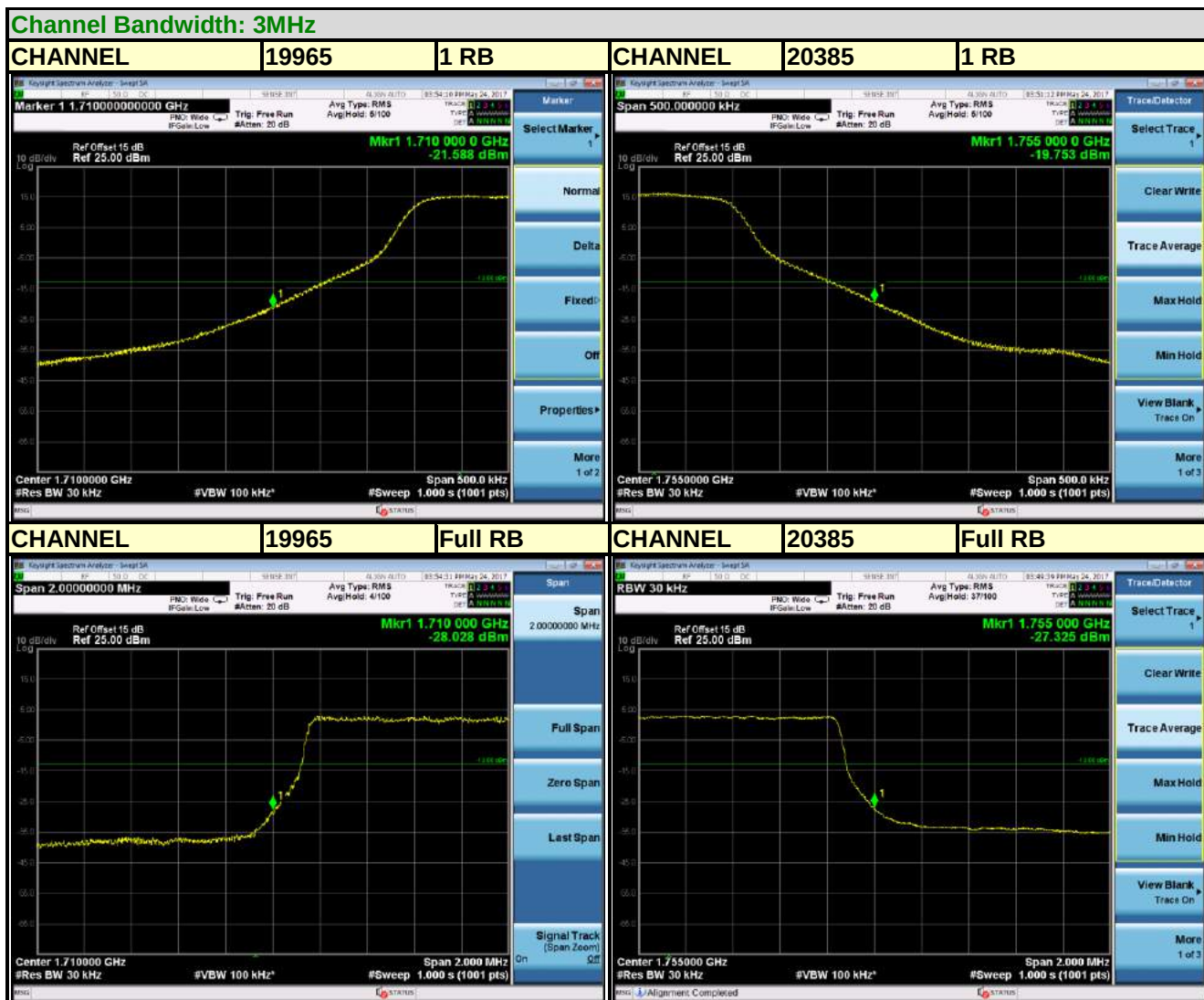
LTE BAND 4





Test Report No.: RF180302W006-3

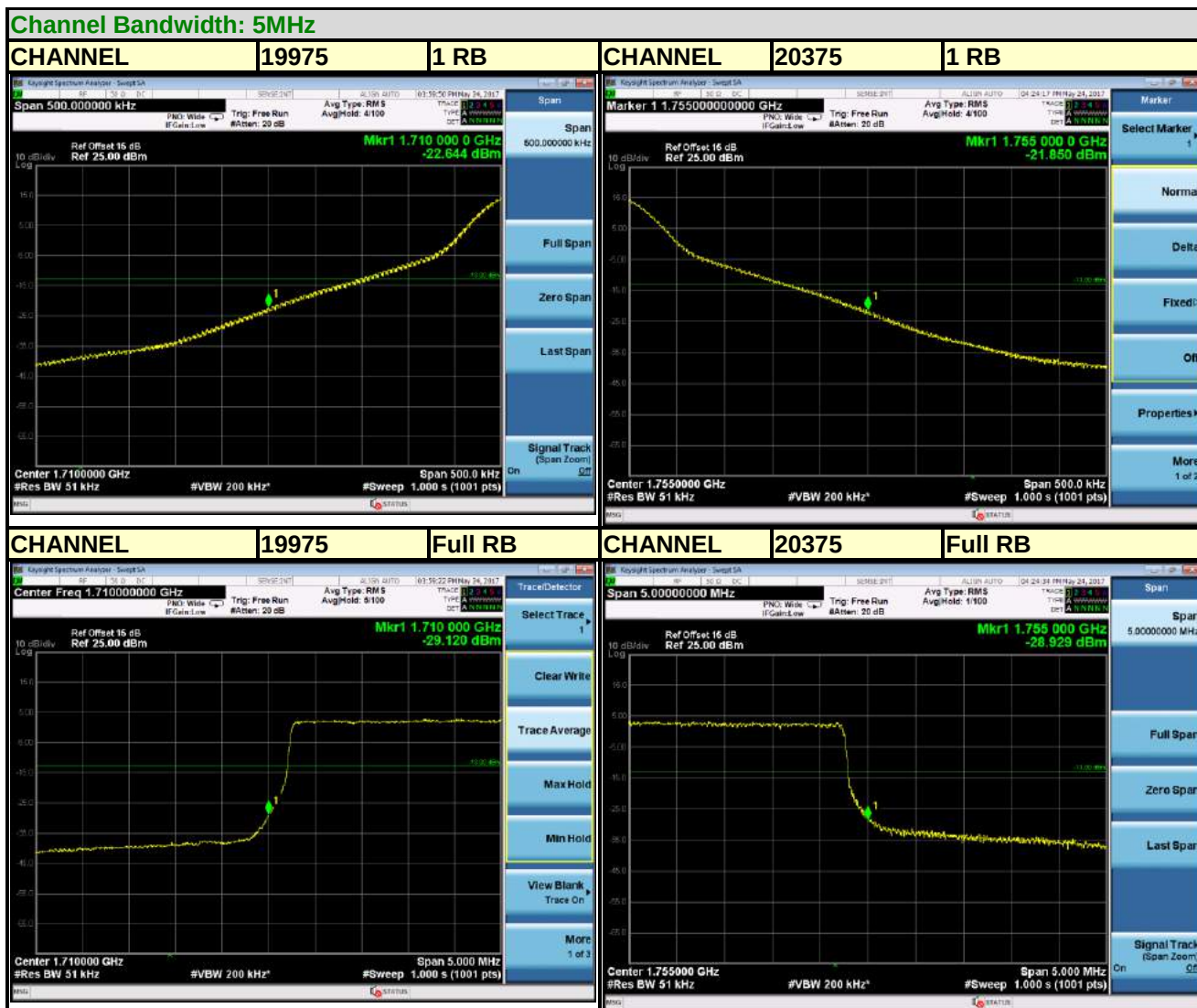
LTE BAND 4





Test Report No.: RF180302W006-3

LTE BAND 4

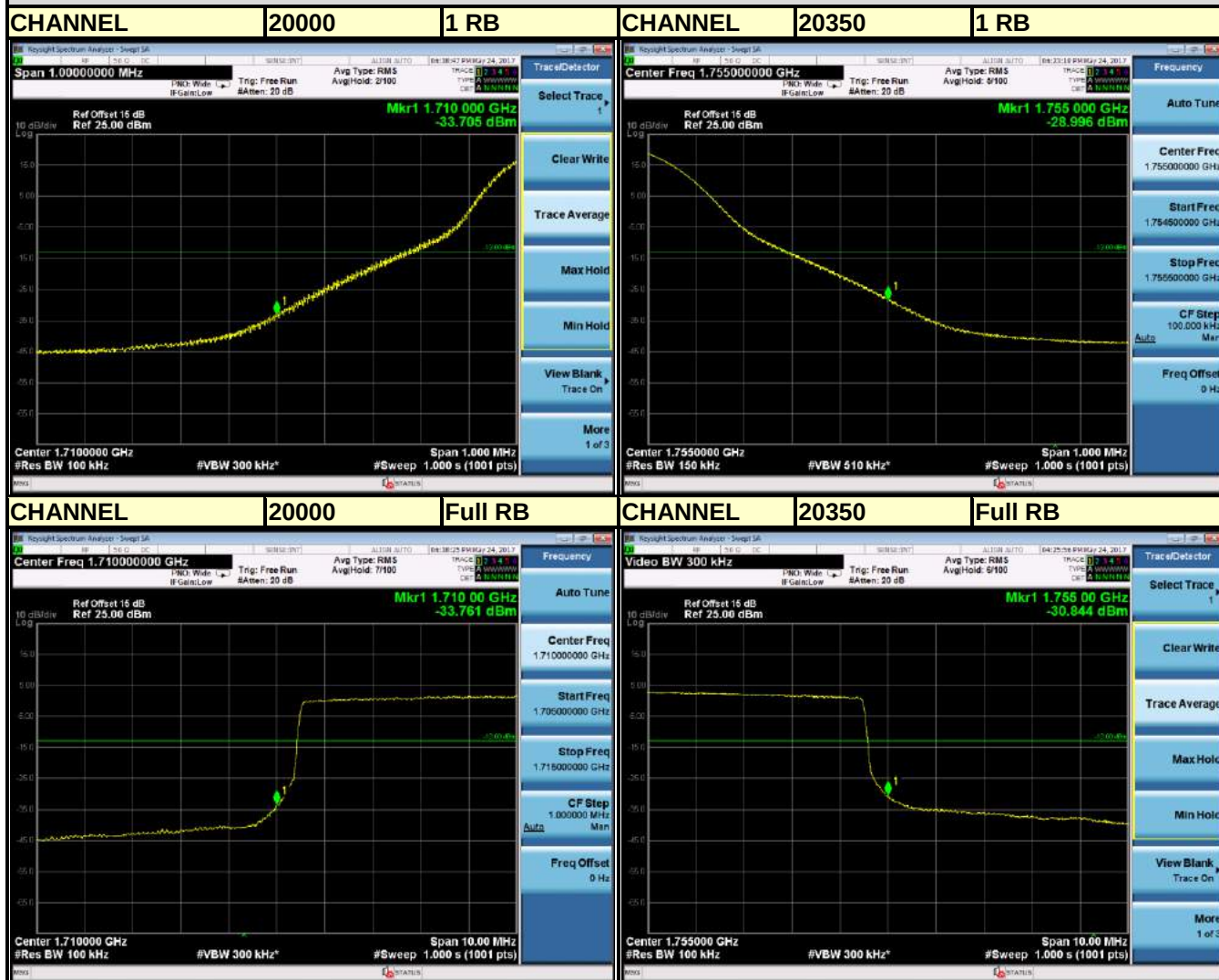




Test Report No.: RF180302W006-3

LTE BAND 4

Channel Bandwidth: 10MHz





Test Report No.: RF180302W006-3

LTE BAND 4

Channel Bandwidth: 15MHz

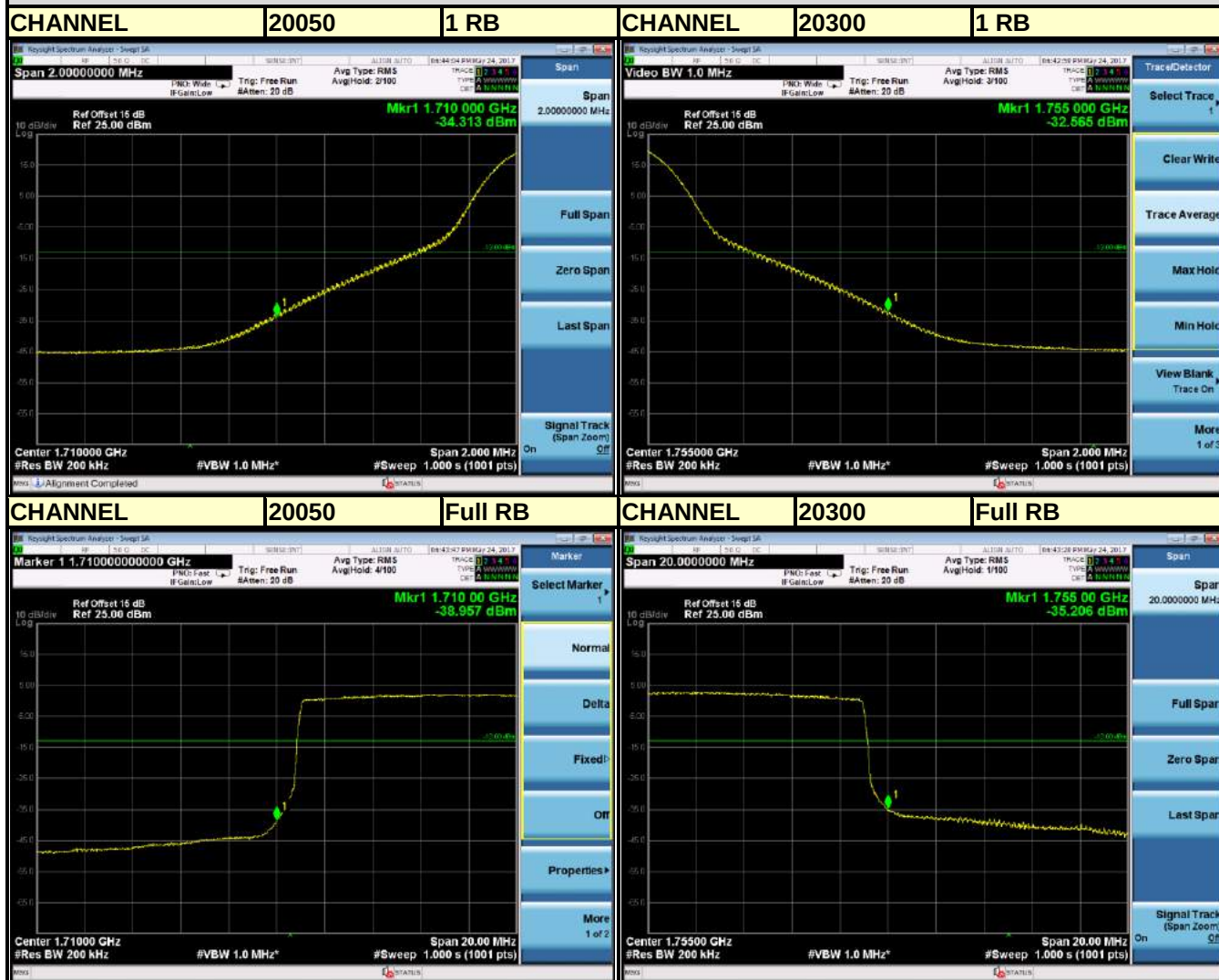




Test Report No.: RF180302W006-3

LTE BAND 4

Channel Bandwidth: 20MHz

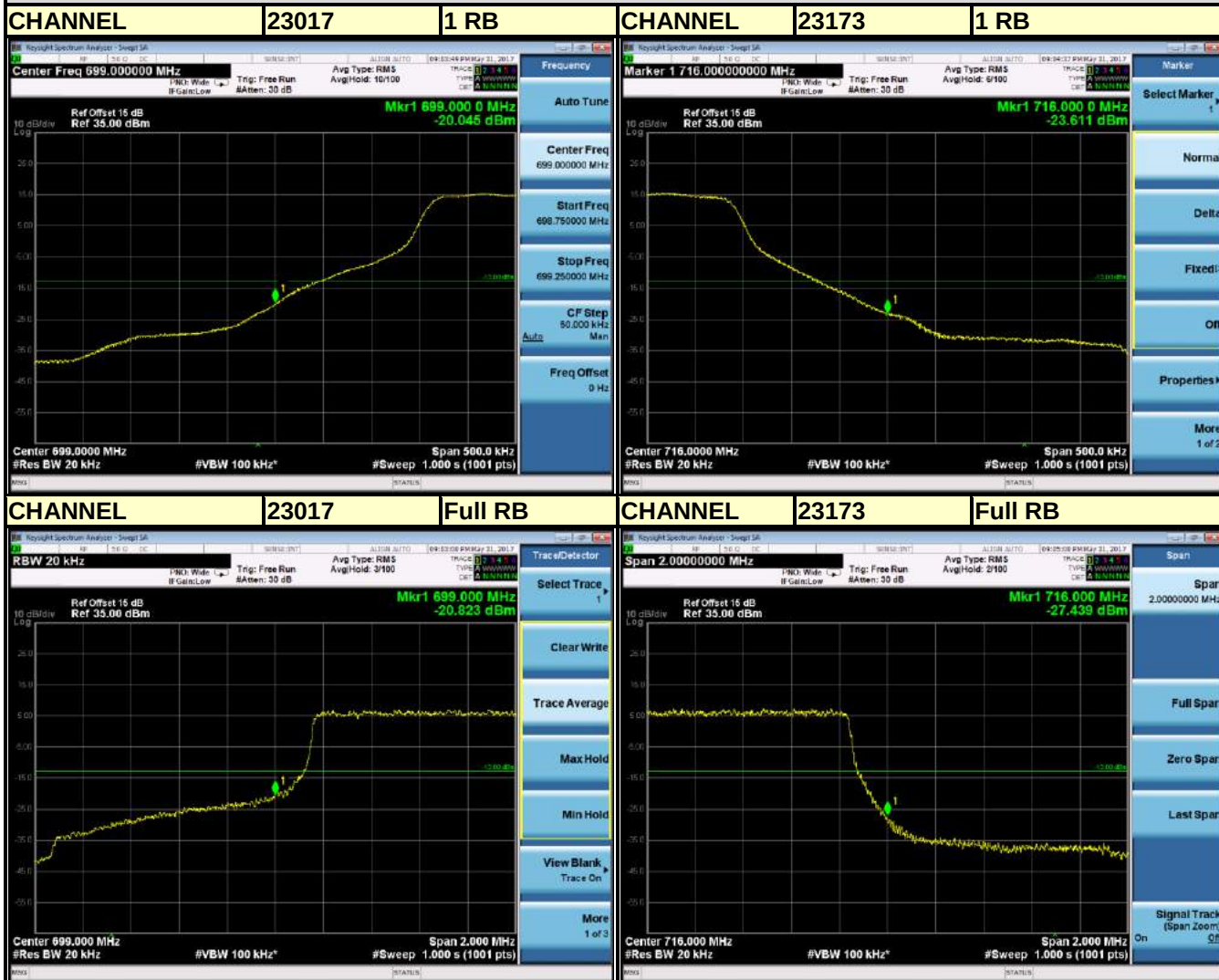




Test Report No.: RF180302W006-3

LTE BAND 12

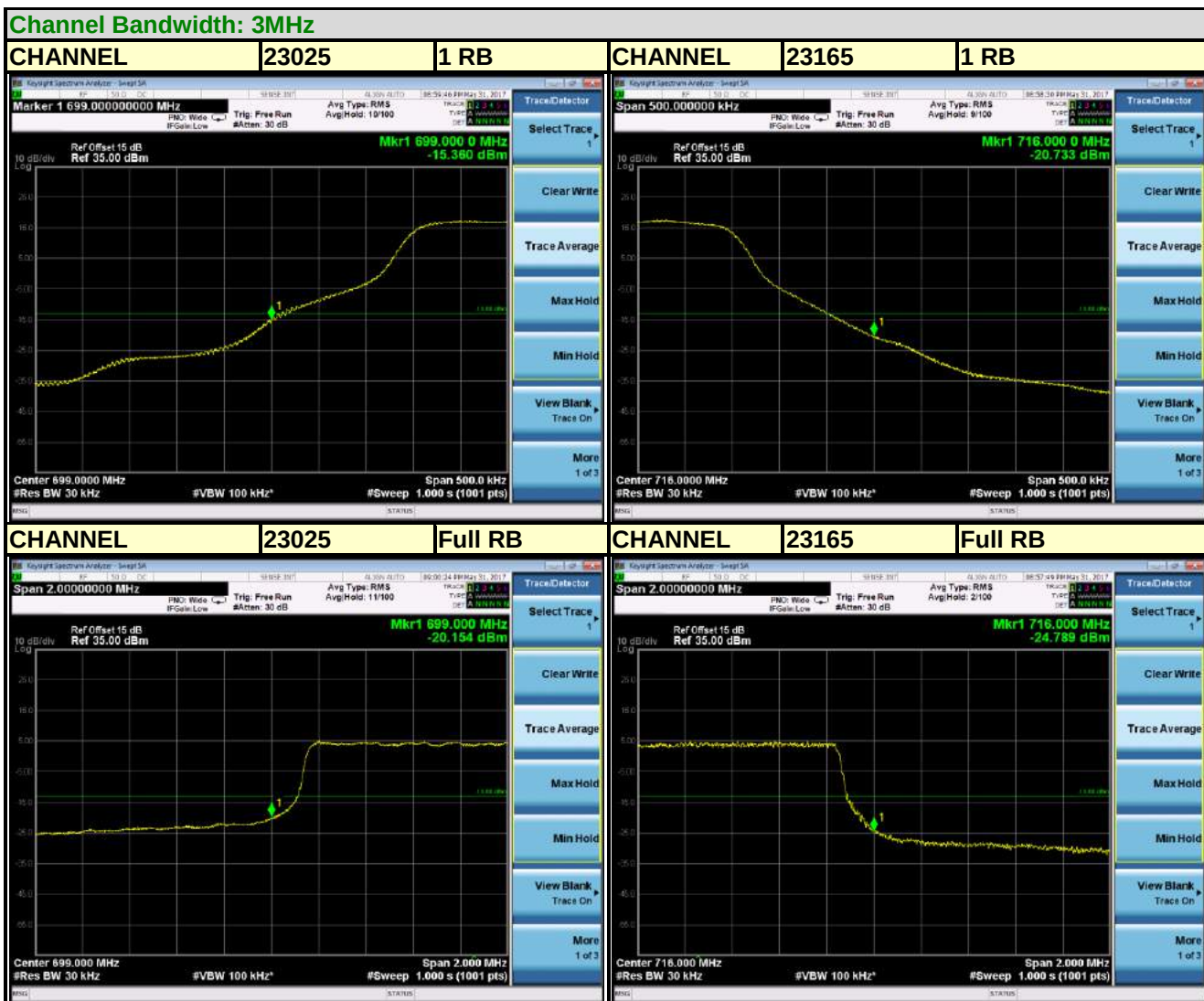
Channel Bandwidth: 1.4MHz





Test Report No.: RF180302W006-3

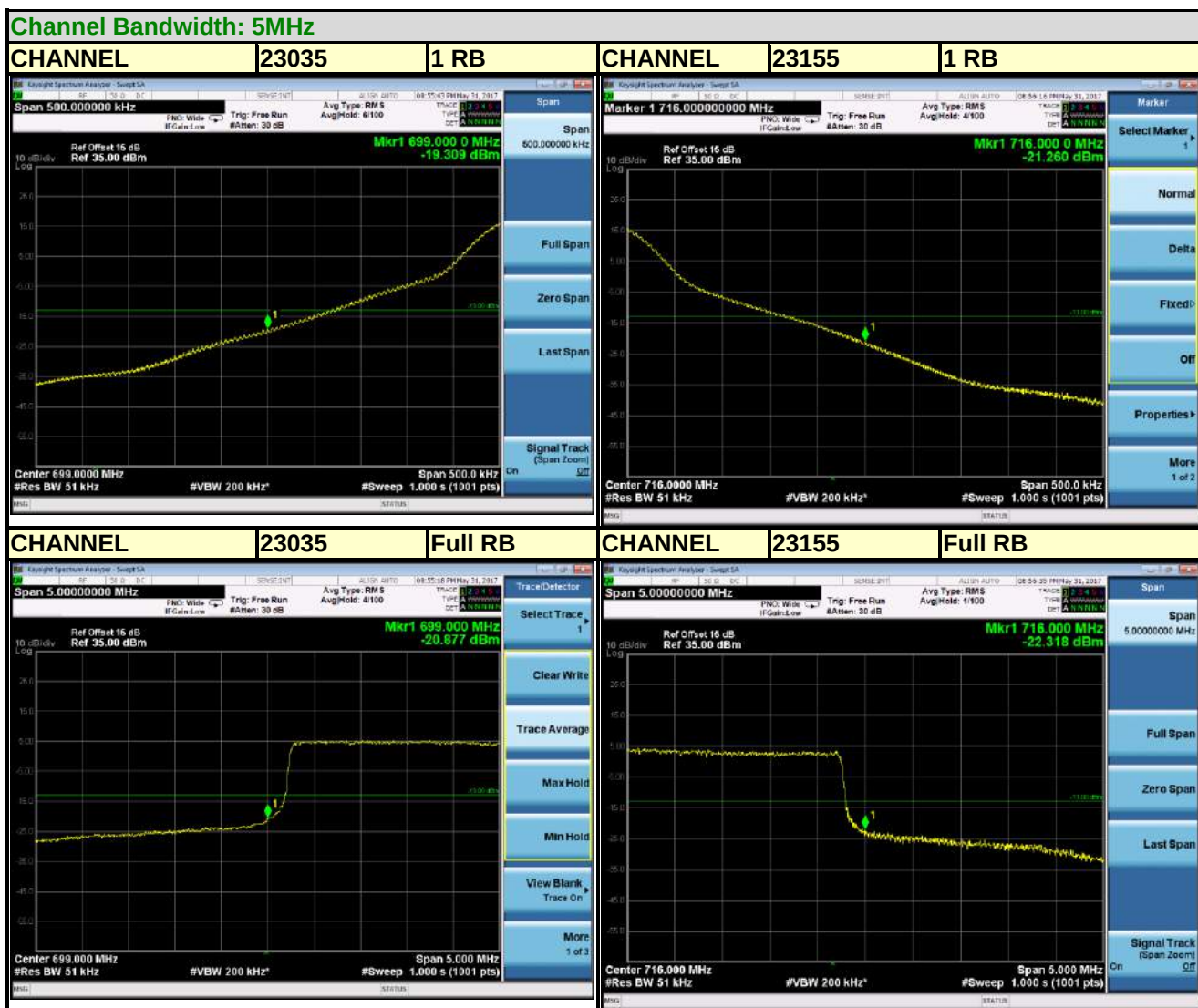
LTE BAND 12





Test Report No.: RF180302W006-3

LTE BAND 12

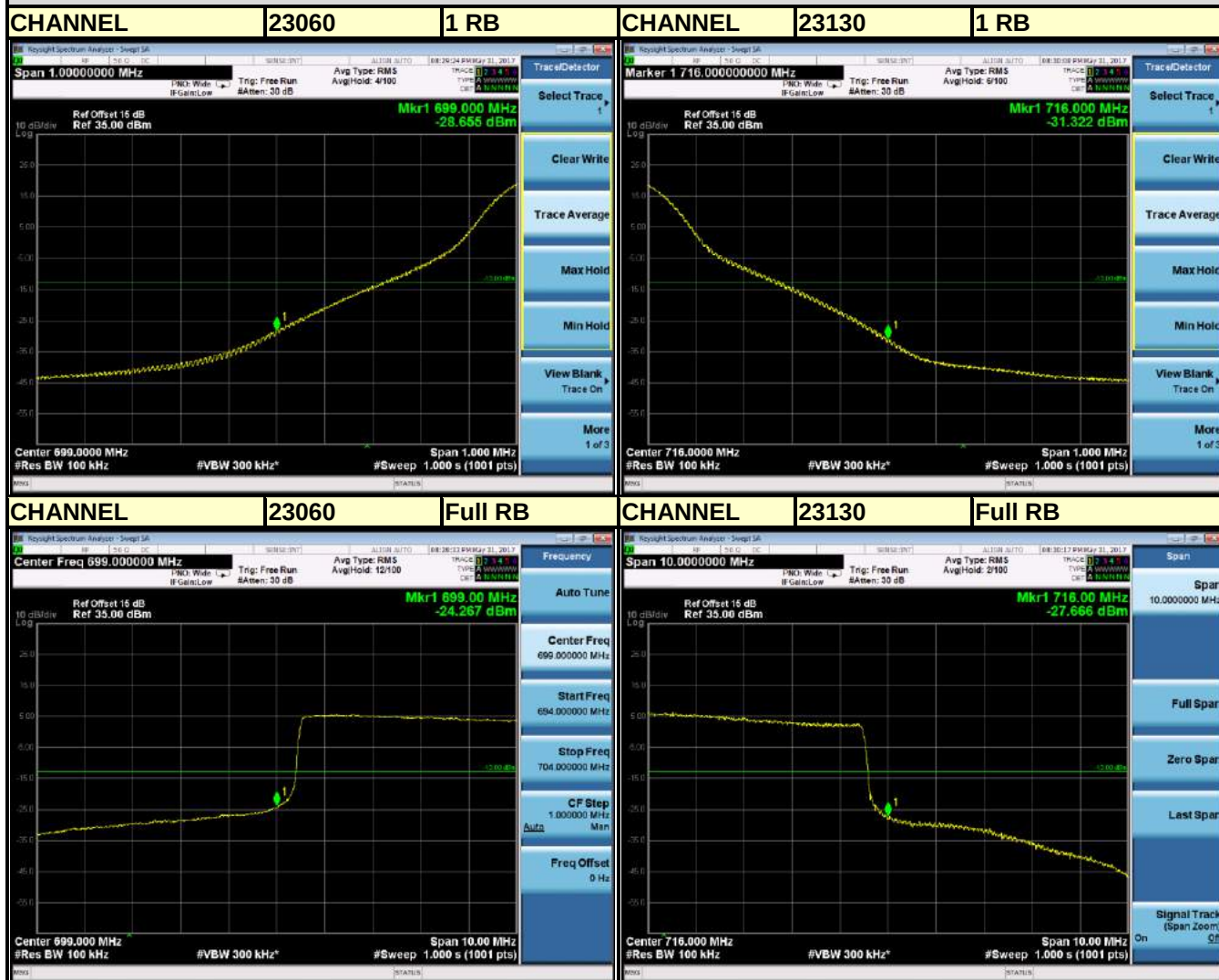




Test Report No.: RF180302W006-3

LTE BAND 12

Channel Bandwidth: 10MHz



3.6 CONDUCTED SPURIOUS EMISSIONS

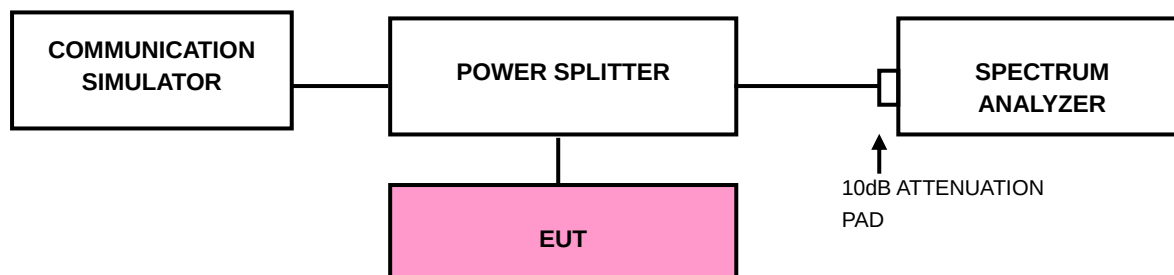
3.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

3.6.2 TEST PROCEDURE

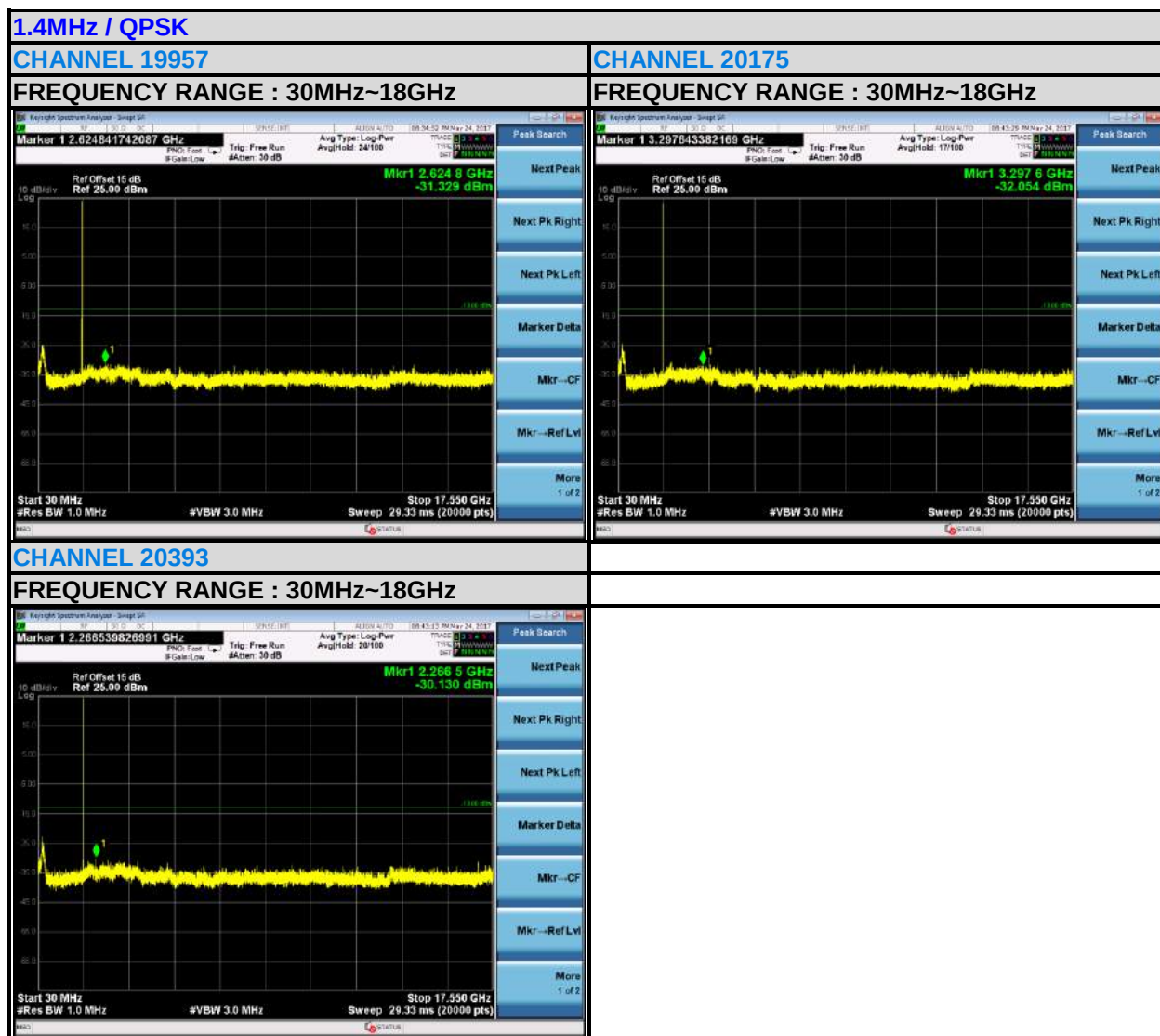
- The EUT makes a phone call to the communication simulator. All measurements were done at middle operational frequency range.
- Measuring frequency range is from 30 MHz to 18GHz for LTE Band 4 and 30 MHz to 8GHz for LTE Band 12. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

3.6.3 TEST SETUP



3.6.4 TEST RESULTS

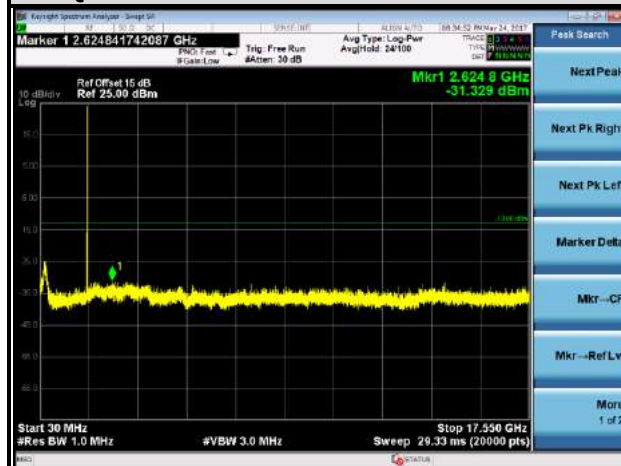
LTE BAND 4



3MHz / QPSK

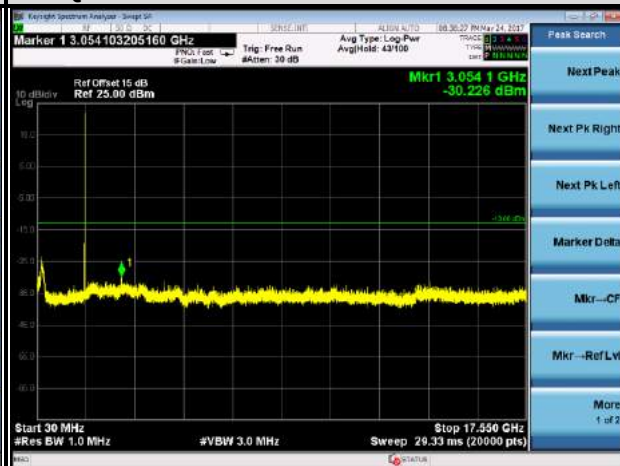
CHANNEL 19965

FREQUENCY RANGE : 30MHz~18GHz



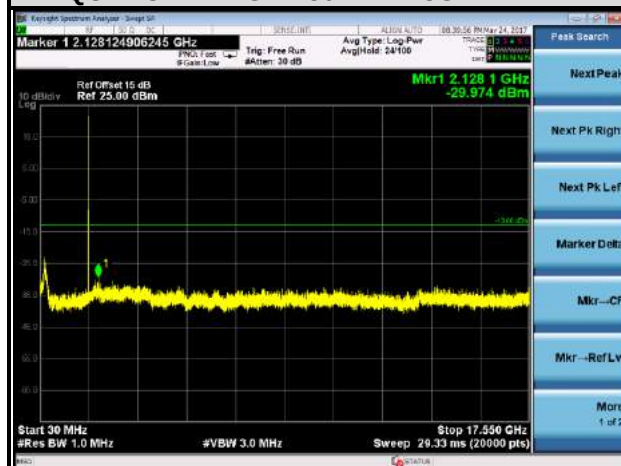
CHANNEL 20175

FREQUENCY RANGE : 30MHz~18GHz



CHANNEL 20385

FREQUENCY RANGE : 30MHz~18GHz

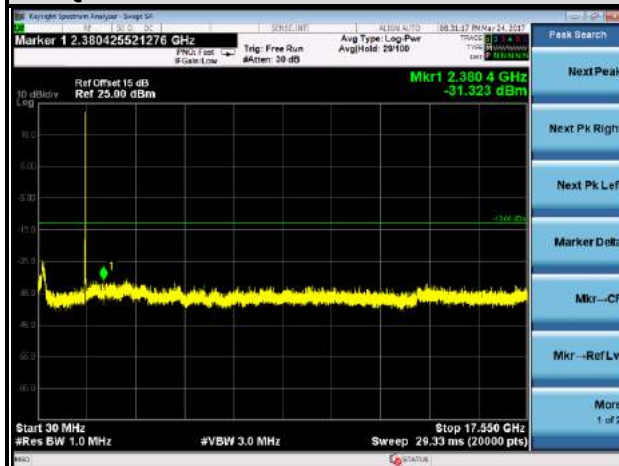




10MHz / QPSK

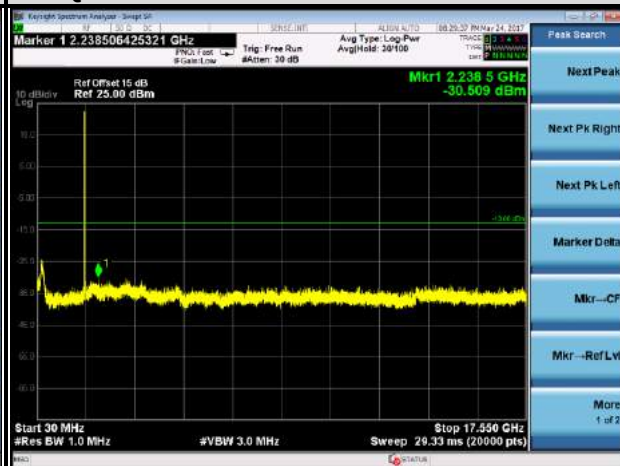
CHANNEL 20000

FREQUENCY RANGE : 30MHz~18GHz



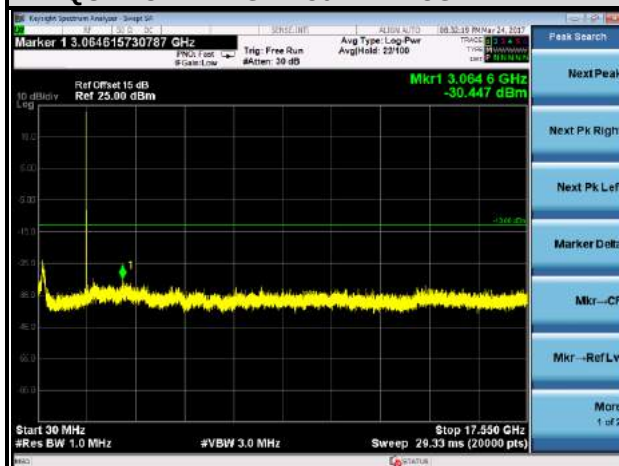
CHANNEL 20175

FREQUENCY RANGE : 30MHz~18GHz



CHANNEL 20350

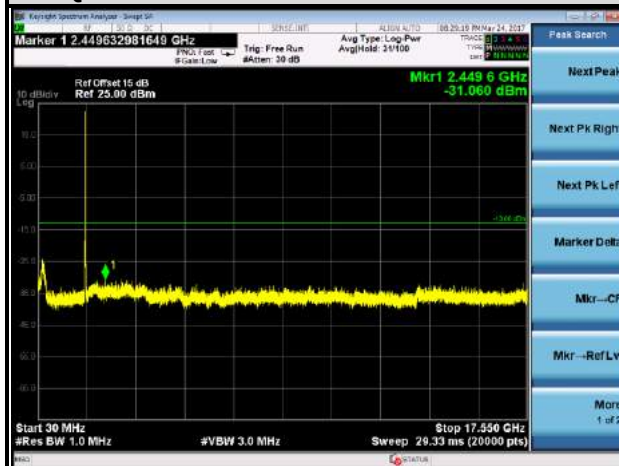
FREQUENCY RANGE : 30MHz~18GHz



15MHz / QPSK

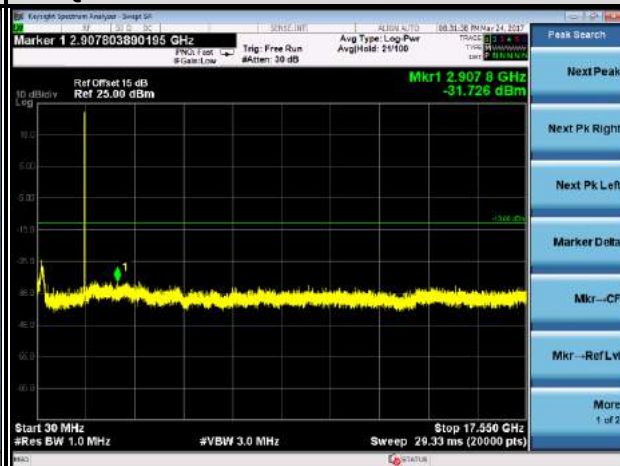
CHANNEL 20025

FREQUENCY RANGE : 30MHz~18GHz



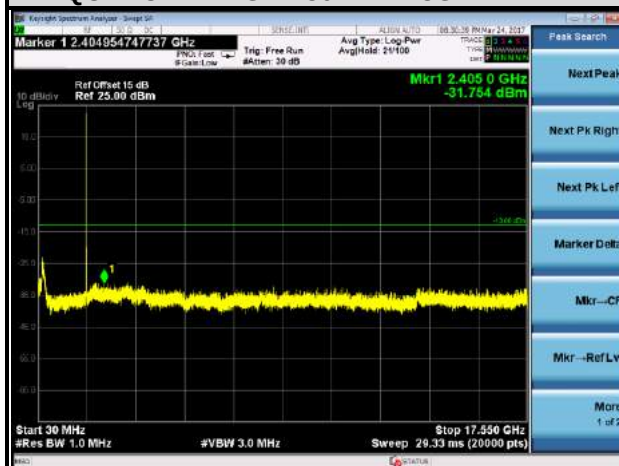
CHANNEL 20175

FREQUENCY RANGE : 30MHz~18GHz



CHANNEL 20325

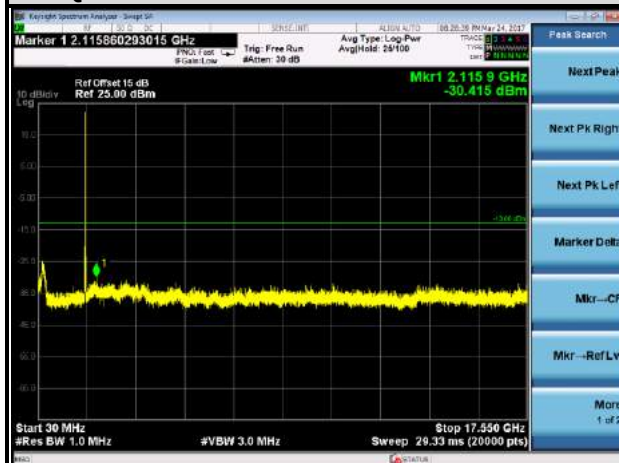
FREQUENCY RANGE : 30MHz~18GHz



20MHz / QPSK

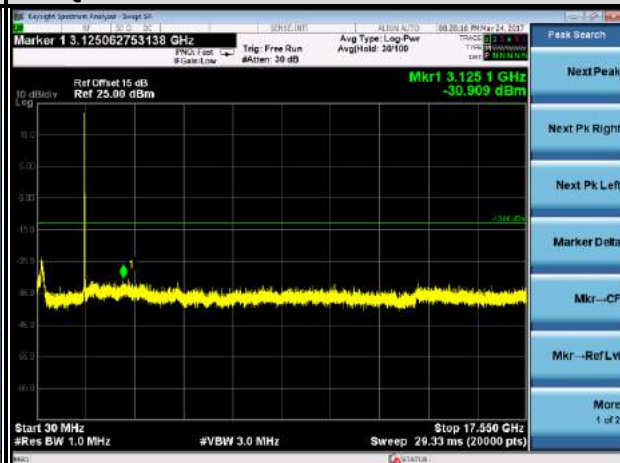
CHANNEL 20050

FREQUENCY RANGE : 30MHz~18GHz



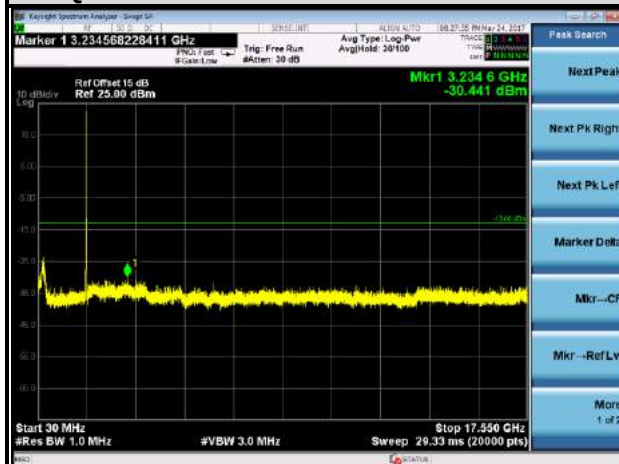
CHANNEL 20175

FREQUENCY RANGE : 30MHz~18GHz

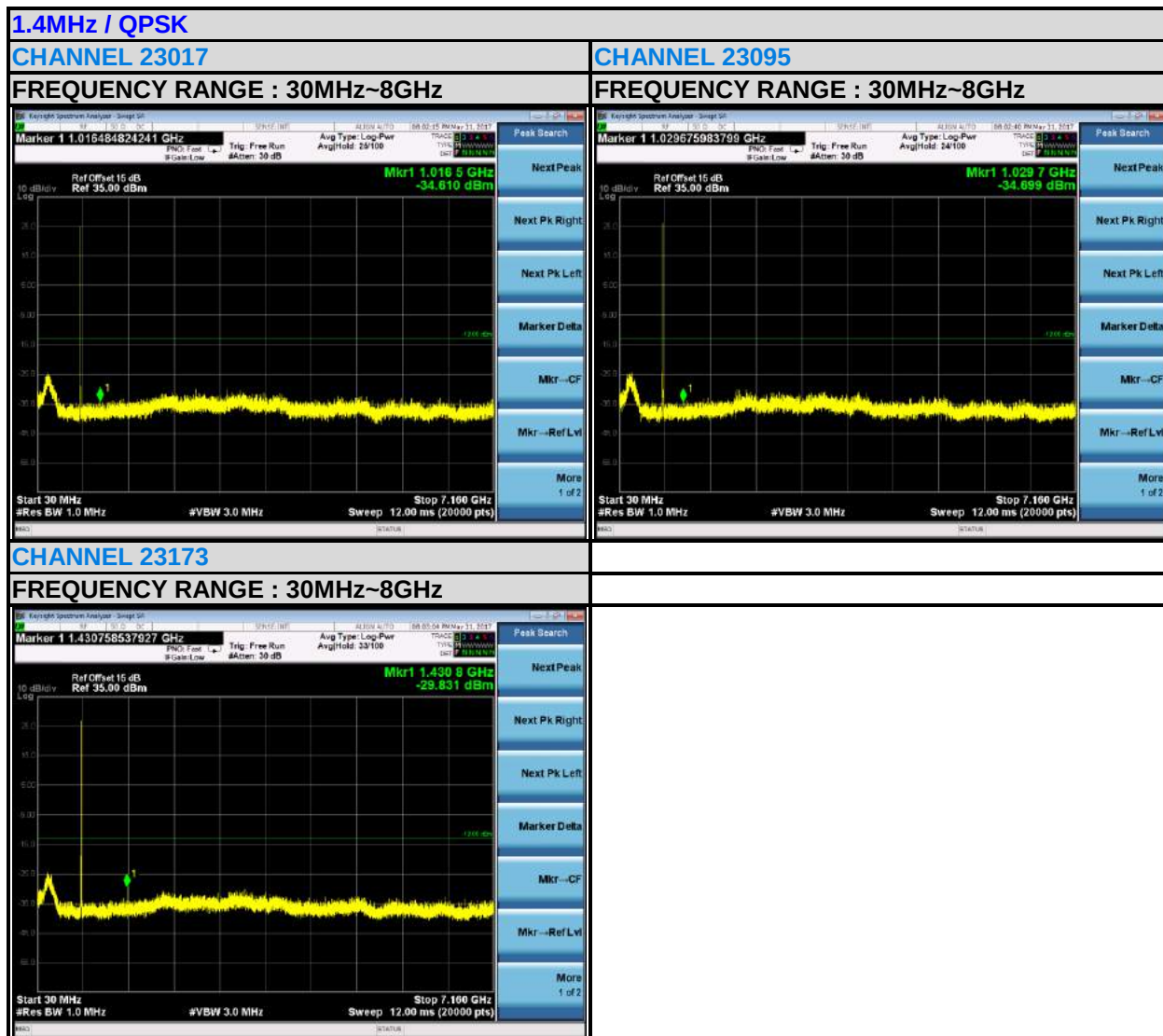


CHANNEL 20300

FREQUENCY RANGE : 30MHz~18GHz



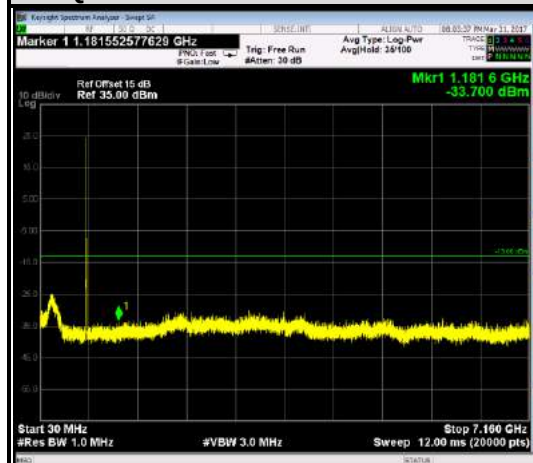
LTE BAND 12



3MHz / QPSK

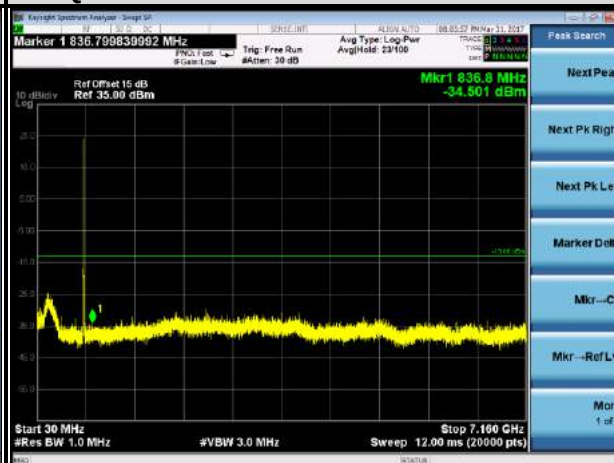
CHANNEL 23025

FREQUENCY RANGE : 30MHz~8GHz



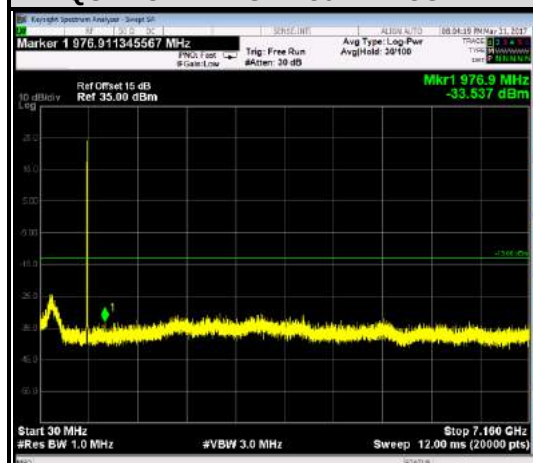
CHANNEL 23095

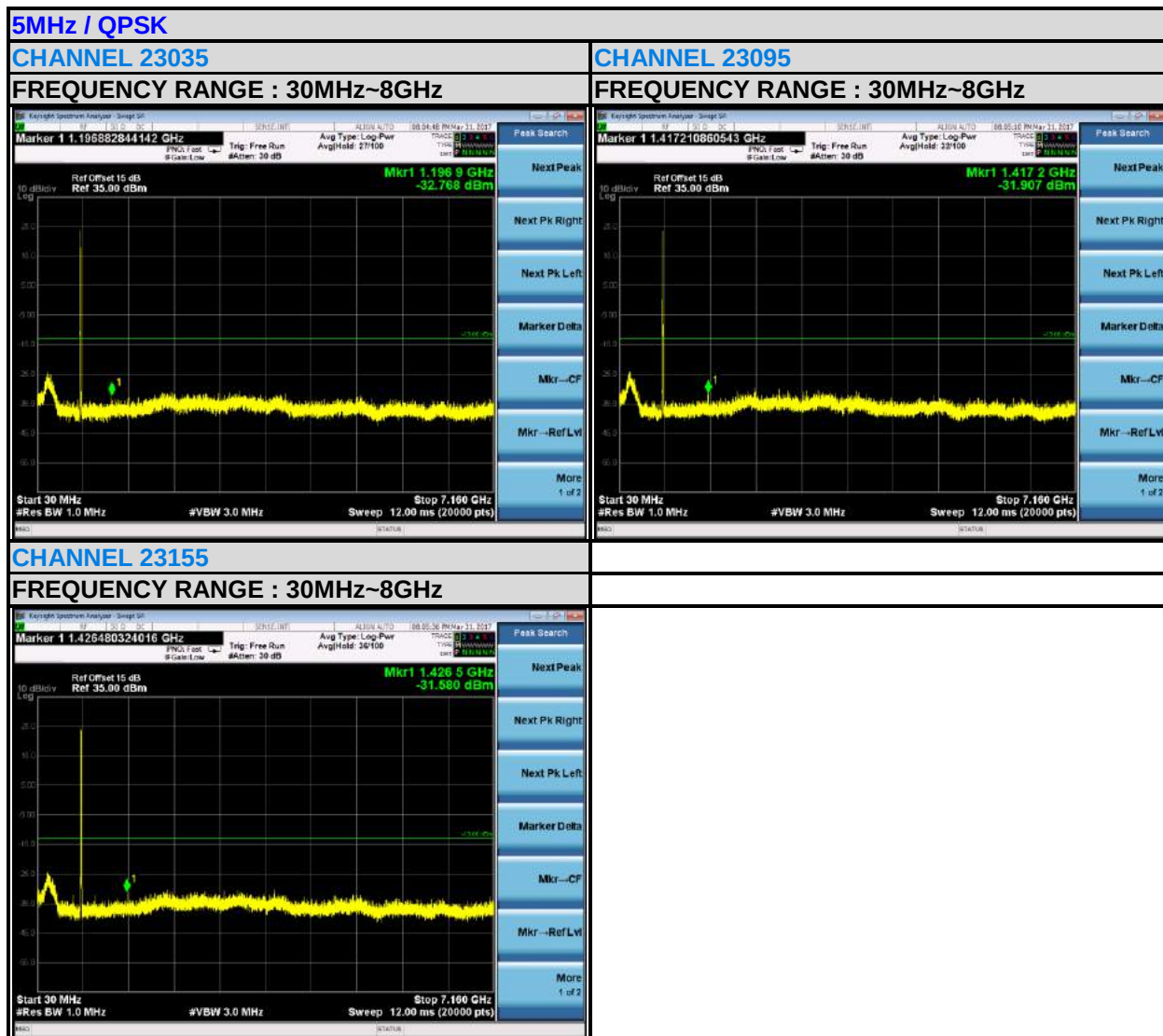
FREQUENCY RANGE : 30MHz~8GHz



CHANNEL 23165

FREQUENCY RANGE : 30MHz~8GHz

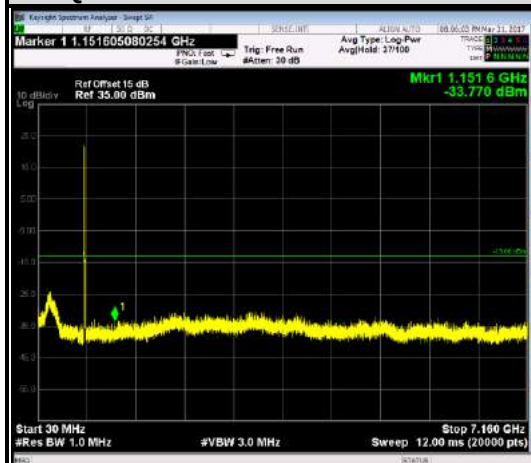




10MHz / QPSK

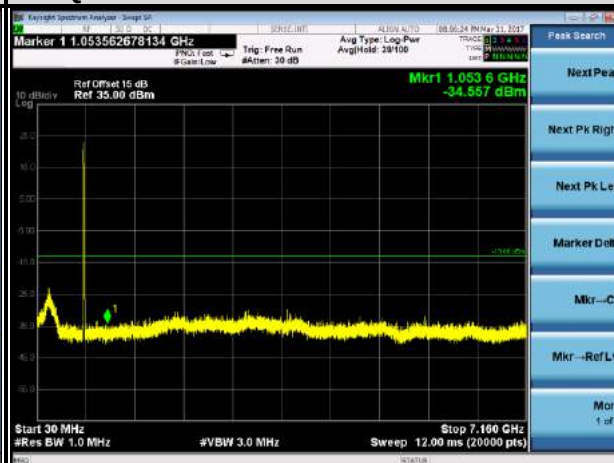
CHANNEL 23060

FREQUENCY RANGE : 30MHz~8GHz



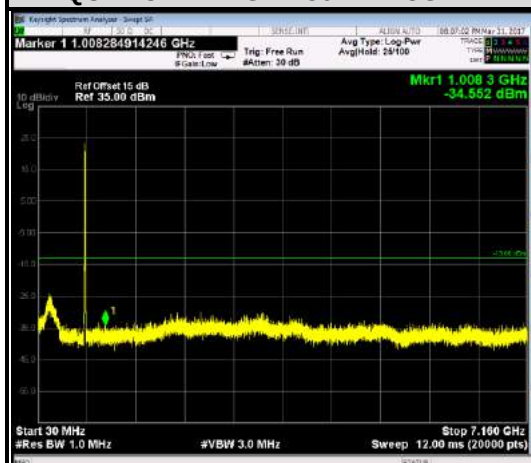
CHANNEL 23095

FREQUENCY RANGE : 30MHz~8GHz



CHANNEL 23130

FREQUENCY RANGE : 30MHz~8GHz



3.7 RADIATED EMISSION MEASUREMENT

3.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

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

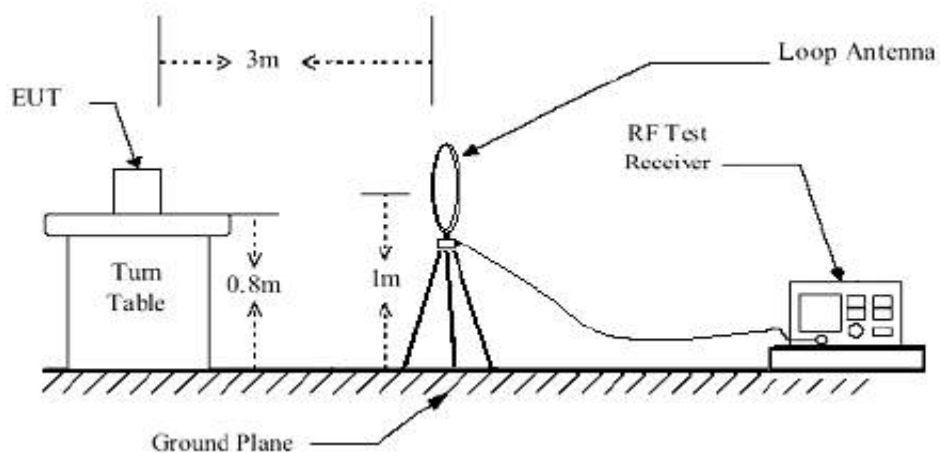
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.7.3 DEVIATION FROM TEST STANDARD

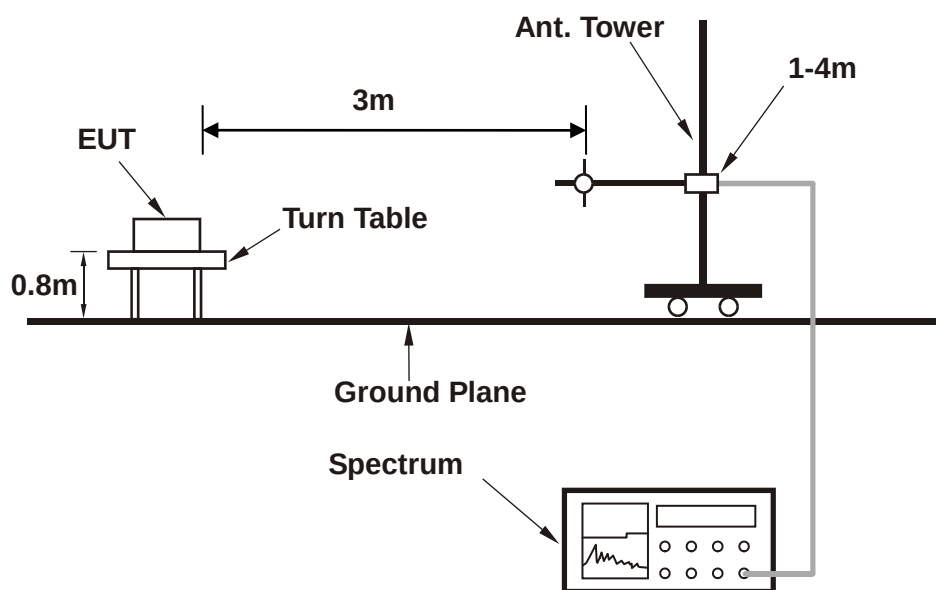
No deviation

3.7.4 TEST SETUP

<Below 30MHz>



<Above 30MHz>



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

3.7.5 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

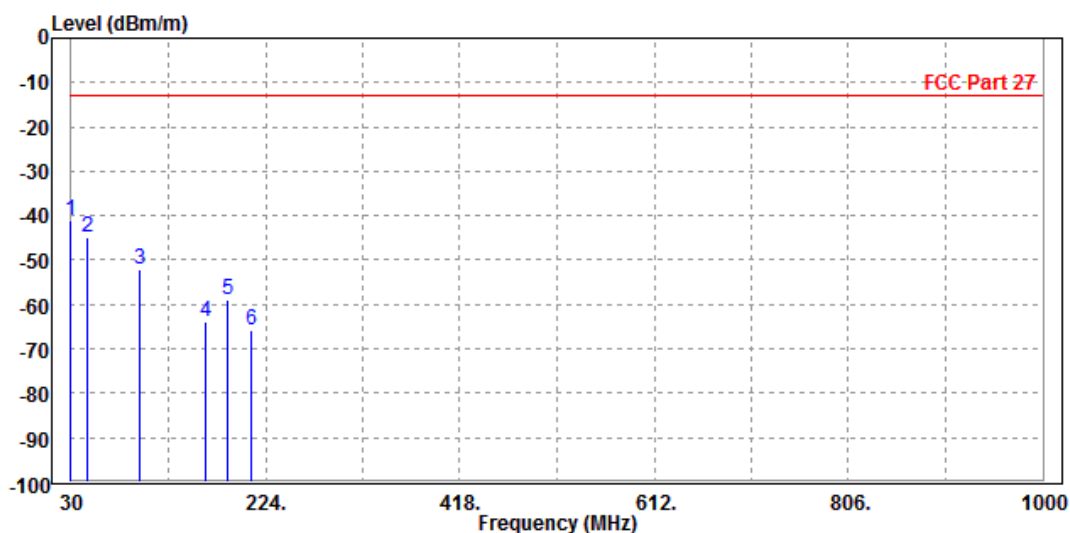
9 KHz – 30 KHz data: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

30 MHz – 1GHz data:

LTE Band 4:

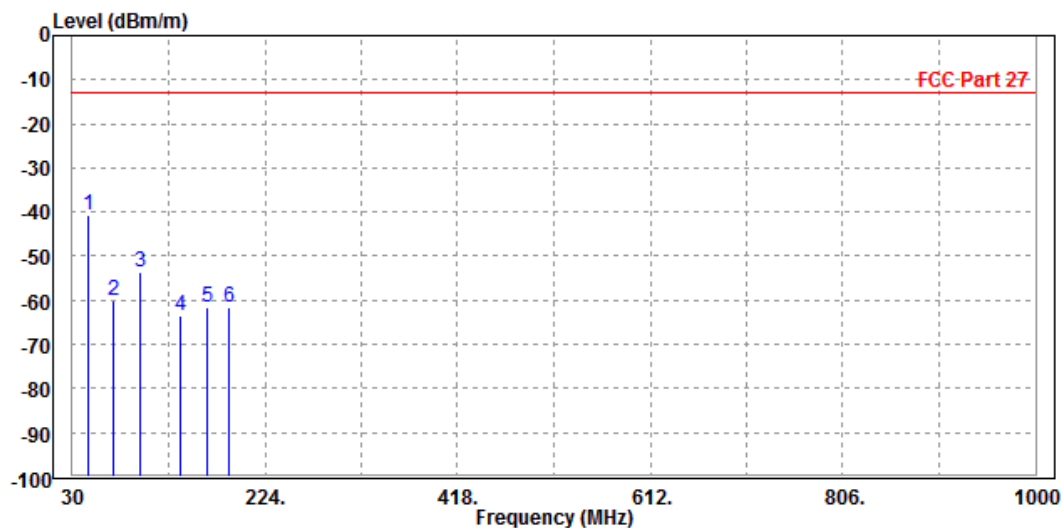
MODE	TX channel 20175	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1 PP	30.000	-41.05	-60.39	-28.05	-13.00	Peak	Horizontal	19.34
2	46.490	-44.94	-51.28	-31.94	-13.00	Peak	Horizontal	6.34
3	97.900	-52.21	-41.50	-39.21	-13.00	Peak	Horizontal	-10.71
4	164.830	-63.94	-45.64	-50.94	-13.00	Peak	Horizontal	-18.30
5	186.170	-58.82	-41.22	-45.82	-13.00	Peak	Horizontal	-17.60
6	210.420	-65.71	-48.68	-52.71	-13.00	Peak	Horizontal	-17.03



MODE	TX channel 20175	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1 PP	46.490	-40.82	-37.18	-27.82	-13.00	Peak	Vertical	-3.64
2	70.740	-60.11	-44.93	-47.11	-13.00	Peak	Vertical	-15.18
3	97.900	-53.45	-42.81	-40.45	-13.00	Peak	Vertical	-10.64
4	138.640	-63.66	-48.37	-50.66	-13.00	Peak	Vertical	-15.29
5	165.800	-61.55	-46.89	-48.55	-13.00	Peak	Vertical	-14.66
6	188.110	-61.53	-49.39	-48.53	-13.00	Peak	Vertical	-12.14





Test Report No.: RF180302W006-3

ABOVE 1GHz

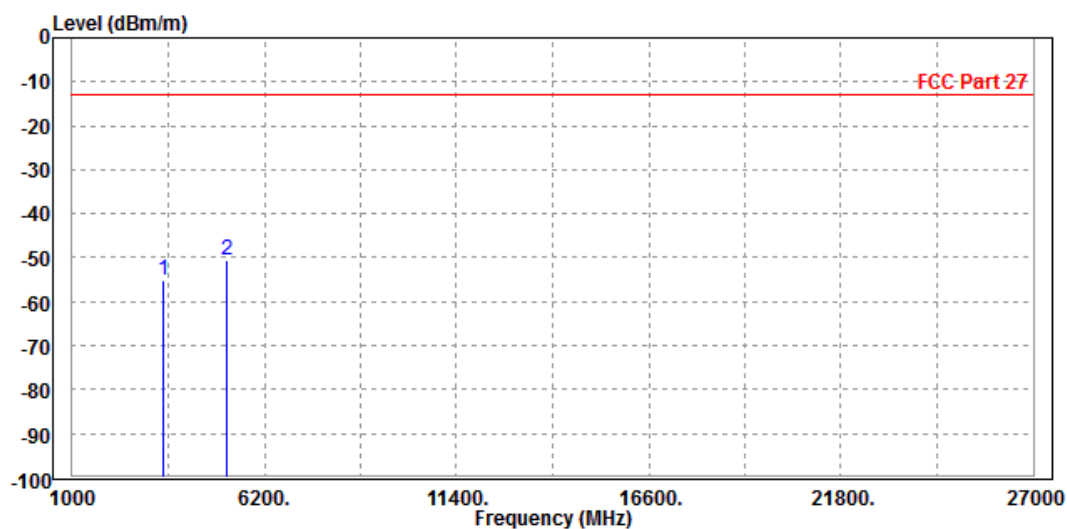
Note: For higher frequency, the emission is too low to be detected.

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz / QPSK

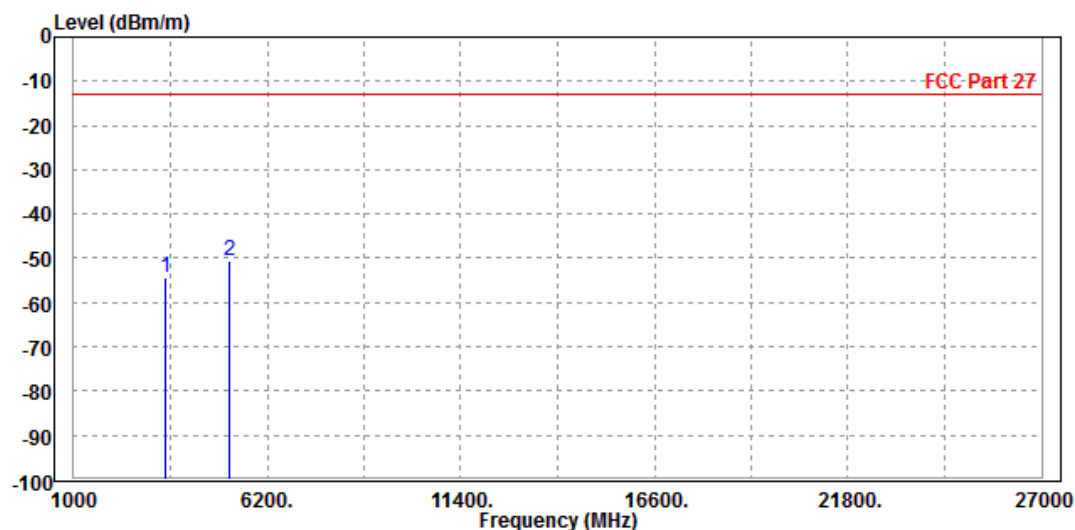
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3470.000	-55.30	-57.35	-42.30	-13.00	Peak	Horizontal	2.05
2 PP	5197.000	-50.55	-59.16	-37.55	-13.00	Peak	Horizontal	8.61



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

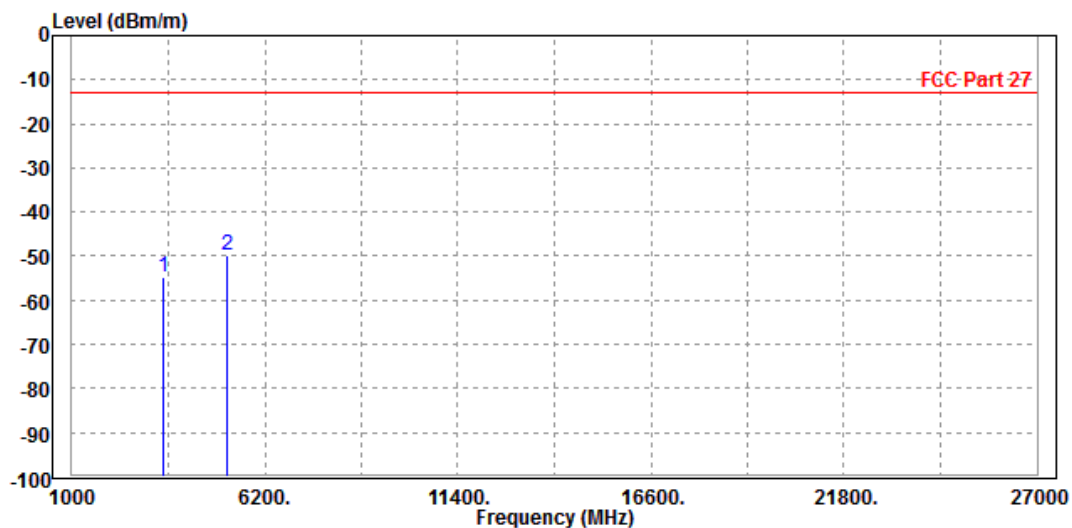
	Freq	Level	Read Level	Over Limit	Limit	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3470.000	-54.24	-56.77	-41.24	-13.00	Peak	Vertical	2.53
2 PP	5197.000	-50.48	-58.46	-37.48	-13.00	Peak	Vertical	7.98



CHANNEL BANDWIDTH: 3MHz / QPSK

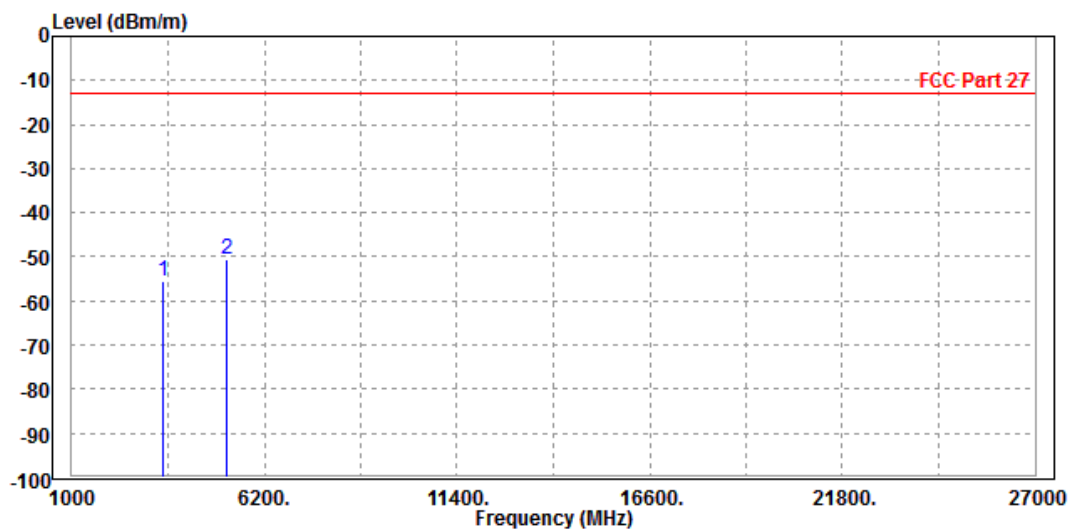
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3470.000	-54.73	-56.78	-41.73	-13.00	Peak	Horizontal	2.05
2 PP	5197.000	-49.73	-58.34	-36.73	-13.00	Peak	Horizontal	8.61



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3470.000	-55.62	-58.15	-42.62	-13.00	Peak	Vertical	2.53
2 PP	5197.000	-50.66	-58.64	-37.66	-13.00	Peak	Vertical	7.98



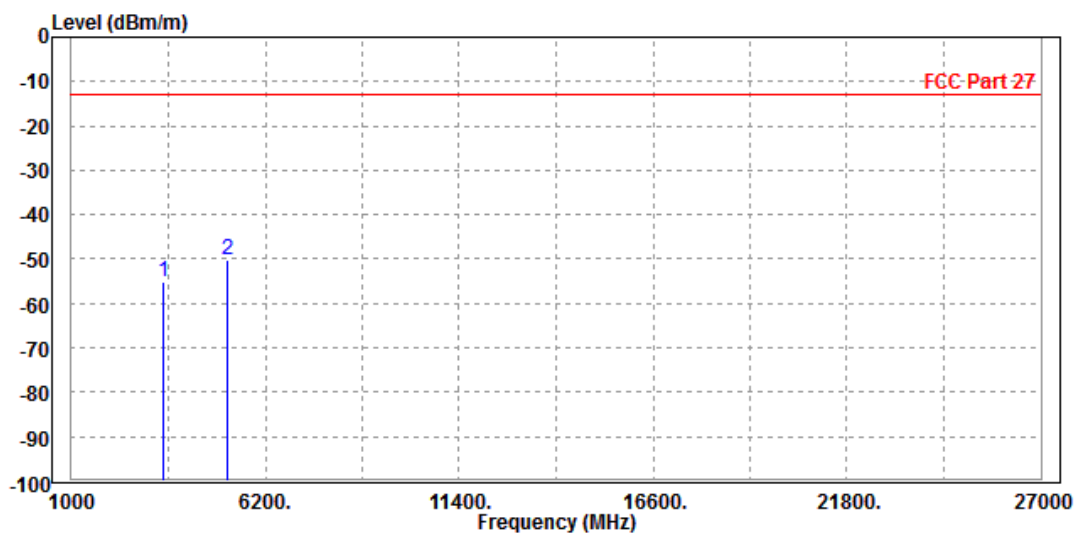


Test Report No.: RF180302W006-3

CHANNEL BANDWIDTH: 5MHz / QPSK

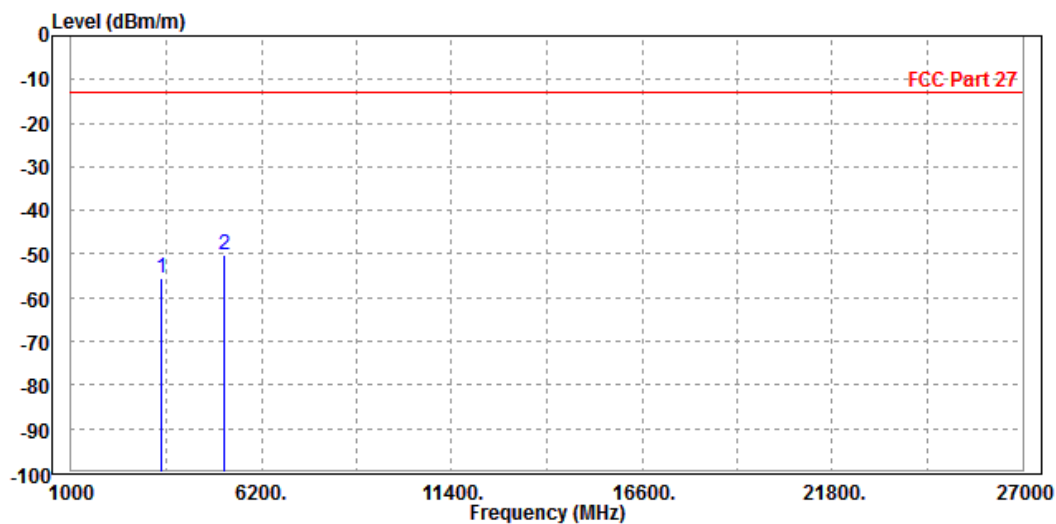
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3470.000	-55.14	-57.19	-42.14	-13.00	Peak	Horizontal	2.05
2 PP	5197.000	-50.26	-58.87	-37.26	-13.00	Peak	Horizontal	8.61



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

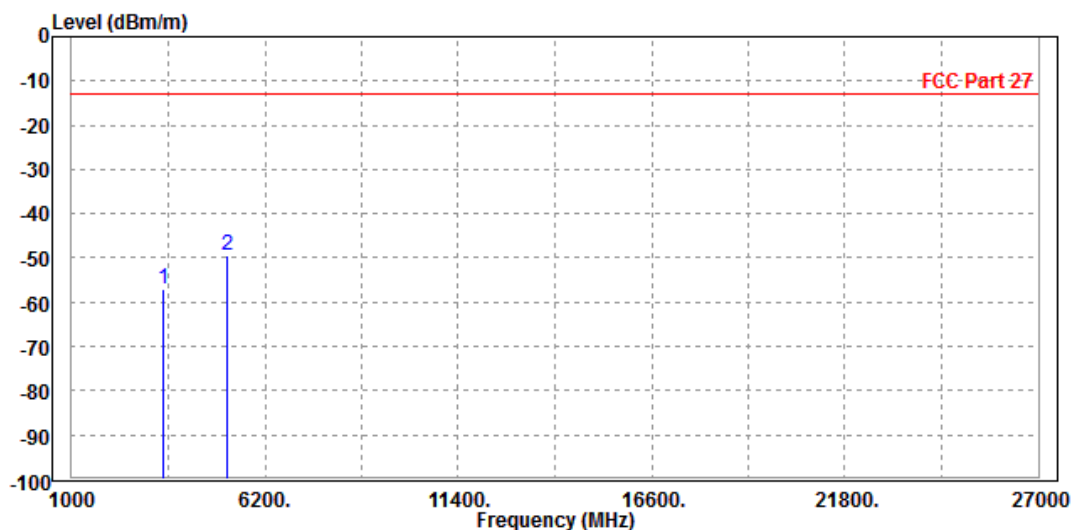
	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3470.000	-55.42	-57.95	-42.42	-13.00	Peak	Vertical	2.53
2 PP	5197.000	-50.14	-58.12	-37.14	-13.00	Peak	Vertical	7.98



CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit	Line Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3470.000	-57.03	-59.08	-44.03	-13.00	Peak	Horizontal	2.05
2 PP	5186.000	-49.42	-58.01	-36.42	-13.00	Peak	Horizontal	8.59

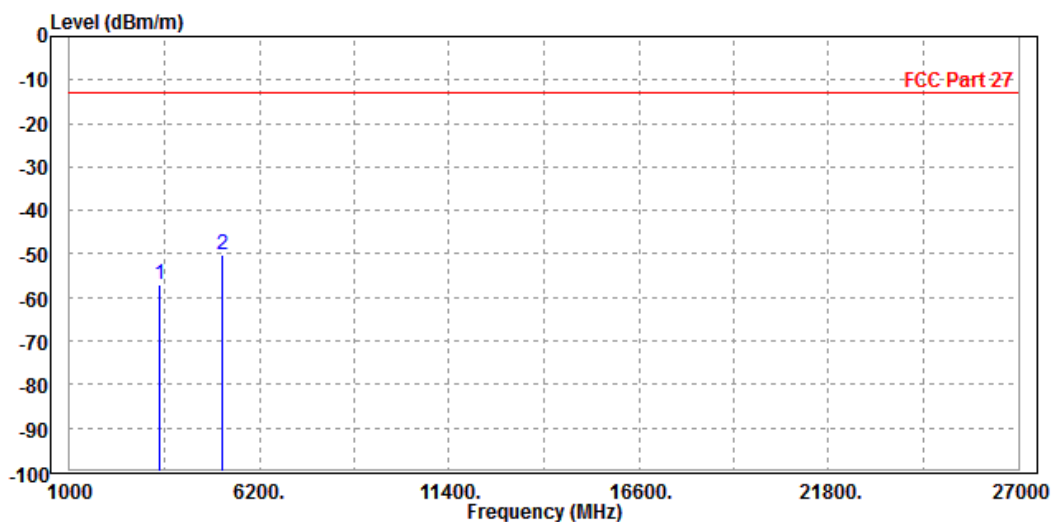




Test Report No.: RF180302W006-3

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit	Line Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3470.000	-57.21	-59.74	-44.21	-13.00	Peak	Vertical	2.53
2	PP 5197.000	-50.33	-58.31	-37.33	-13.00	Peak	Vertical	7.98



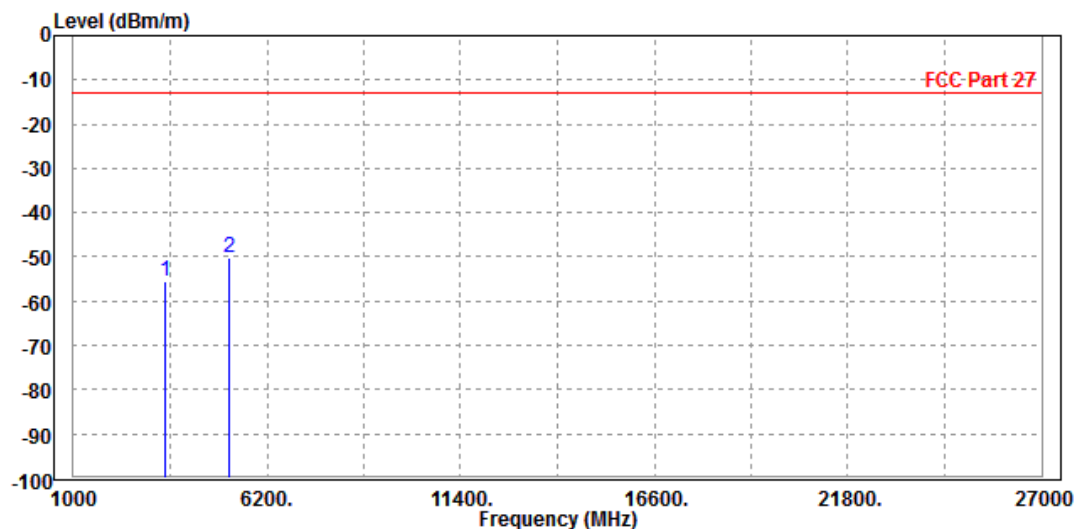


Test Report No.: RF180302W006-3

CHANNEL BANDWIDTH: 15MHz / QPSK

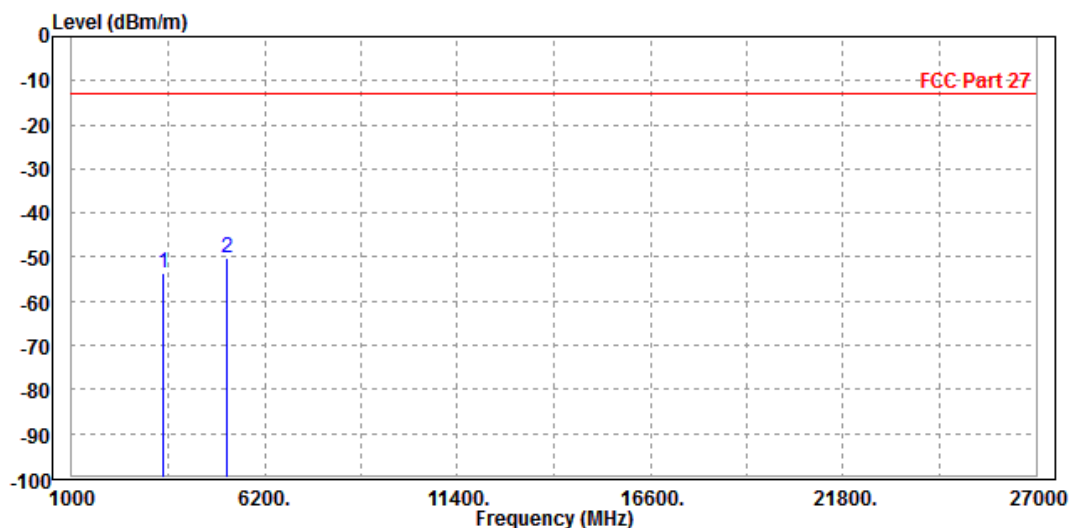
MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3470.000	-55.51	-57.56	-42.51	-13.00	Peak	Horizontal	2.05
2 PP	5197.000	-50.07	-58.68	-37.07	-13.00	Peak	Horizontal	8.61



MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3470.000	-53.62	-56.15	-40.62	-13.00	Peak	Vertical	2.53
2 PP	5197.000	-50.28	-58.26	-37.28	-13.00	Peak	Vertical	7.98





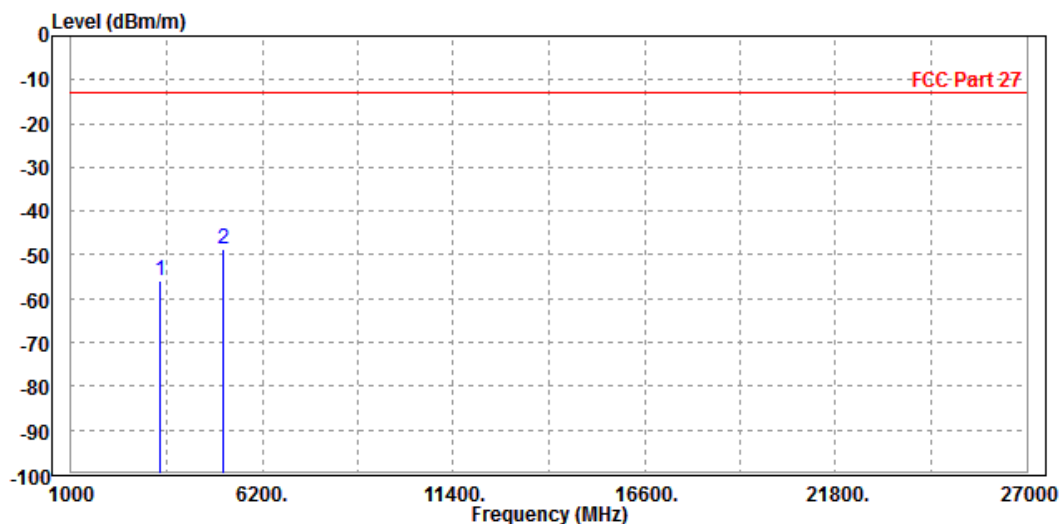
Test Report No.: RF180302W006-3

CHANNEL BANDWIDTH: 20MHz / QPSK

CH20050

MODE	TX channel 20050	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3440.000	-55.74	-57.67	-42.74	-13.00	Peak	Horizontal	1.93
2 PP	5160.000	-48.62	-57.18	-35.62	-13.00	Peak	Horizontal	8.56

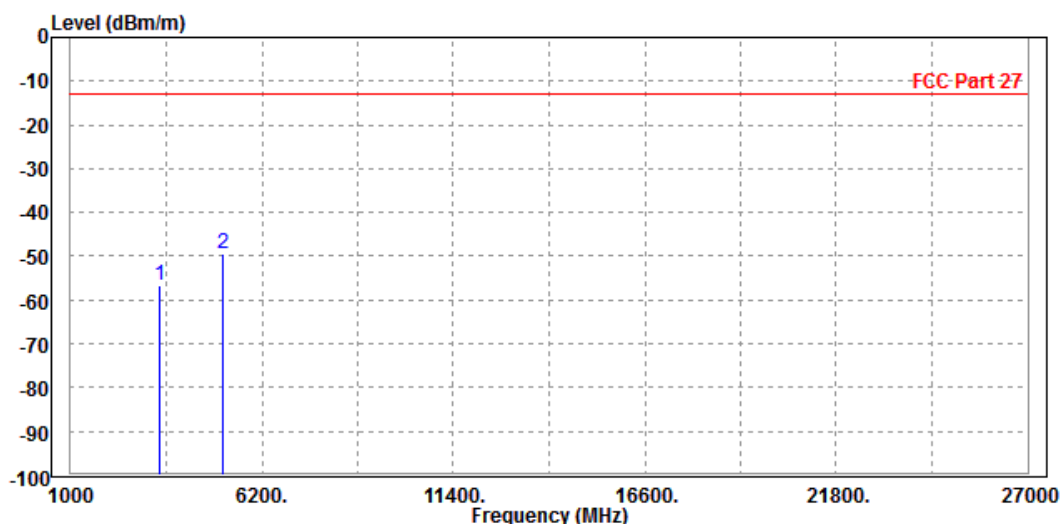




Test Report No.: RF180302W006-3

MODE	TX channel 20050	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

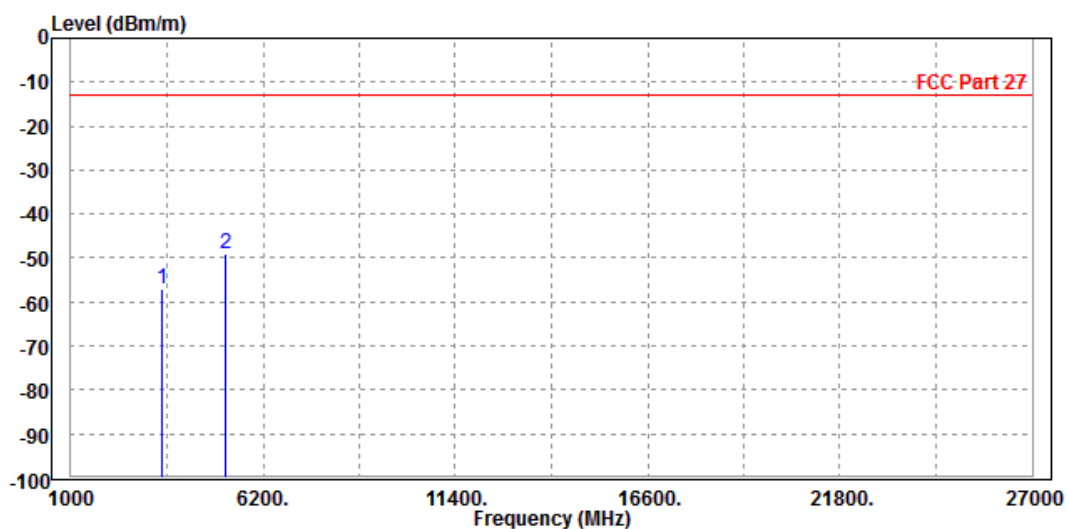
	Freq	Level	Read Level	Over Limit	Limit	Line Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3440.000	-56.74	-59.23	-43.74	-13.00	Peak	Vertical	2.49
2 PP	5160.000	-49.51	-57.49	-36.51	-13.00	Peak	Vertical	7.98



CH20175

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3470.000	-56.97	-59.02	-43.97	-13.00	Peak	Horizontal	2.05
2 PP	5186.000	-48.92	-57.51	-35.92	-13.00	Peak	Horizontal	8.59

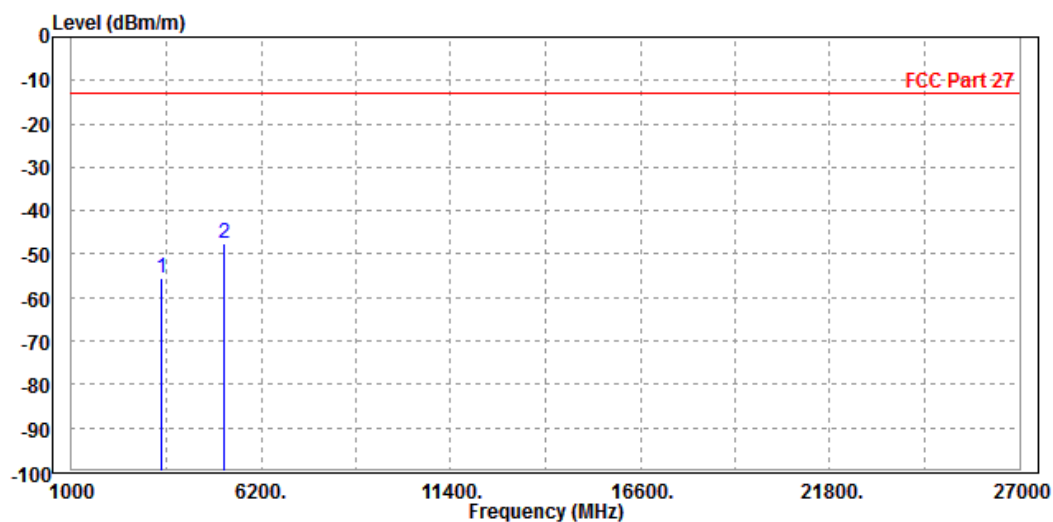




Test Report No.: RF180302W006-3

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

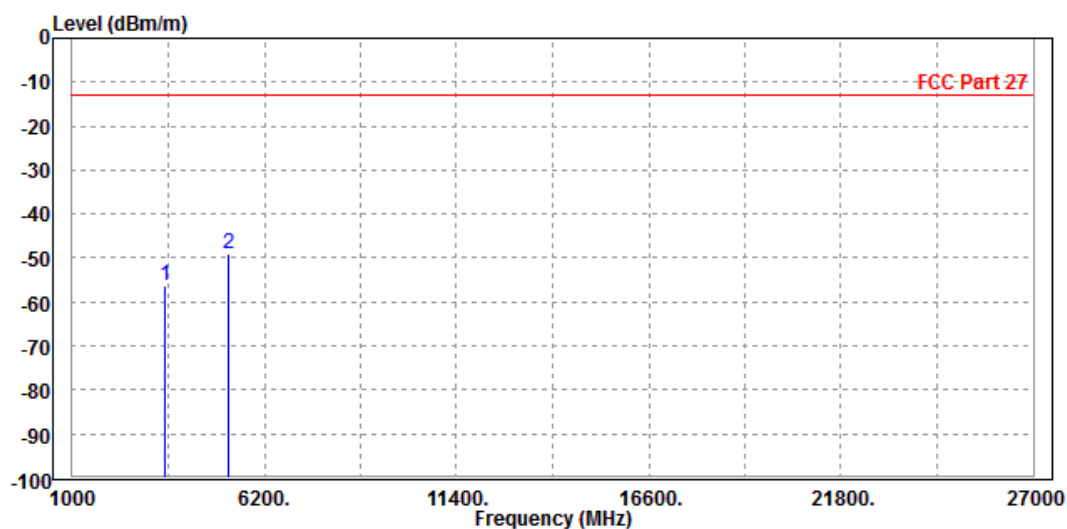
	Freq	Level	Read Level	Over Limit	Limit	Line Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3470.000	-55.41	-57.94	-42.41	-13.00	Peak	Vertical	2.53
2 PP	5197.000	-47.43	-55.41	-34.43	-13.00	Peak	Vertical	7.98



CH20300

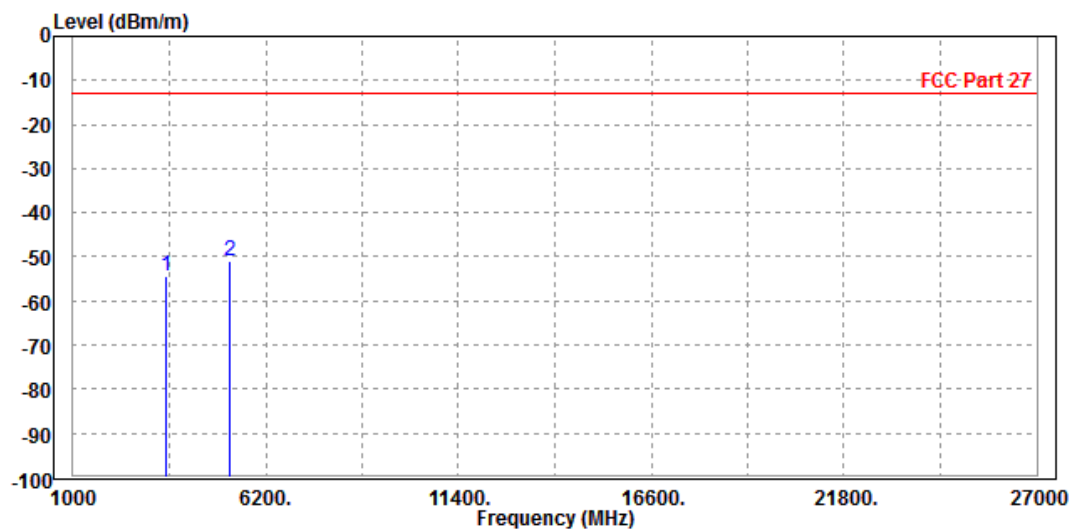
MODE	TX channel 20300	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3490.000	-56.20	-58.32	-43.20	-13.00	Peak	Horizontal	2.12
2 PP	5235.000	-49.01	-57.66	-36.01	-13.00	Peak	Horizontal	8.65



MODE	TX channel 20300	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit	Line Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	3490.000	-54.21	-56.77	-41.21	-13.00	Peak	Vertical	2.56
2 PP	5235.000	-50.87	-58.85	-37.87	-13.00	Peak	Vertical	7.98





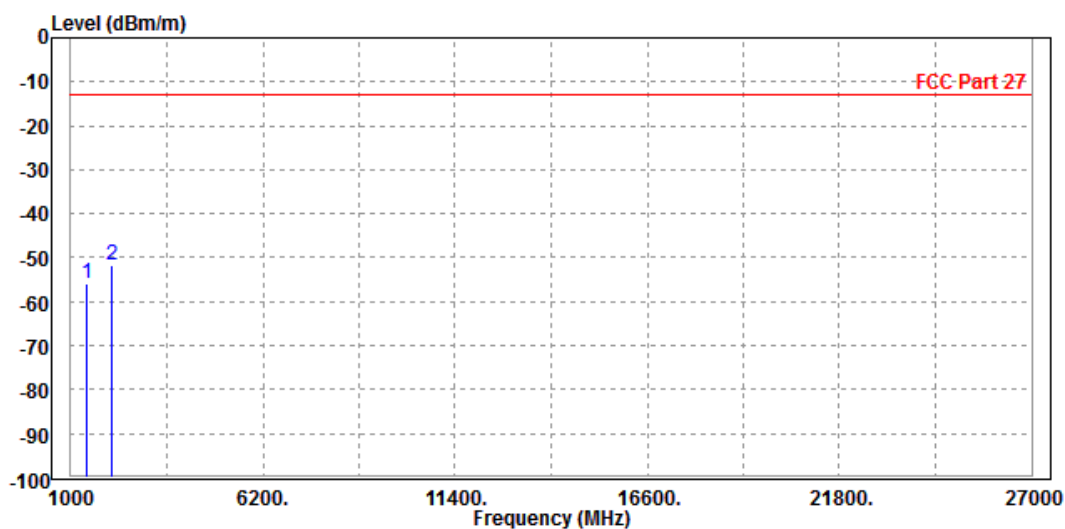
Test Report No.: RF180302W006-3

LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz / QPSK

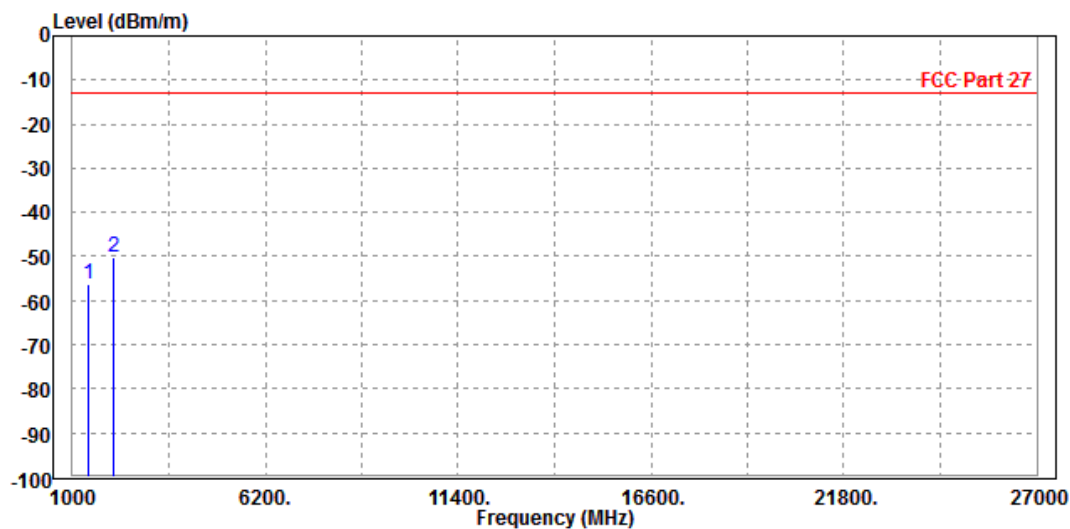
MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH	INPUT POWER	DC 3.8V
TESTED BY	Tony Zou		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	1416.000	-55.86	-49.14	-42.86	-13.00	Peak	Horizontal	-6.72
2 PP	2122.500	-51.60	-49.67	-38.60	-13.00	Peak	Horizontal	-1.93



MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH	INPUT POWER	DC 3.8V
TESTED BY	Tony Zou		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	1416.000	-56.20	-50.76	-43.20	-13.00	Peak	Vertical	-5.44
2 PP	2122.500	-50.23	-49.99	-37.23	-13.00	Peak	Vertical	-0.24





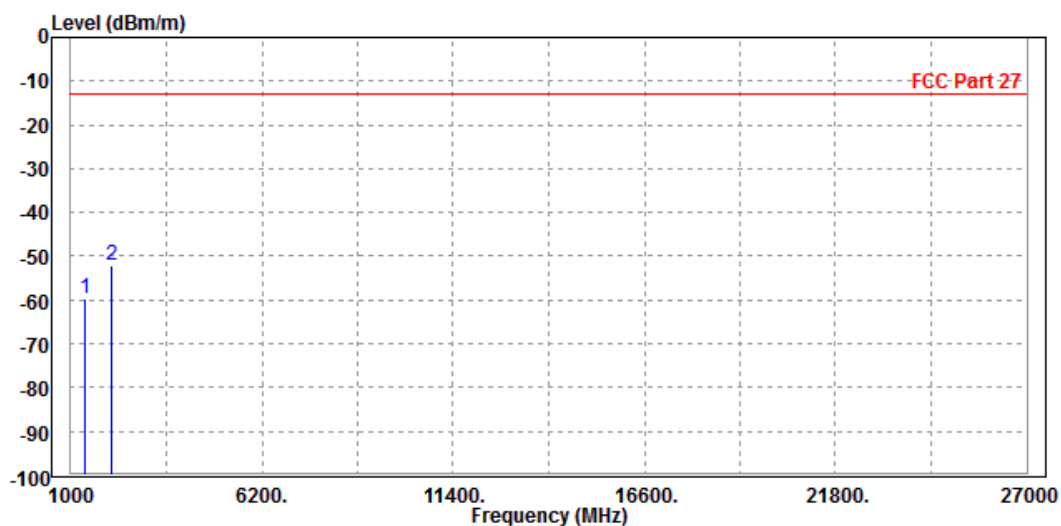
Test Report No.: RF180302W006-3

CHANNEL BANDWIDTH: 3MHz / QPSK

CH23025

MODE	TX channel 23025	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH	INPUT POWER	DC 3.8V
TESTED BY	Tony Zou		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	1390.000	-59.79	-52.91	-46.79	-13.00	Peak	Horizontal	-6.88
2 PP	2100.000	-52.02	-50.07	-39.02	-13.00	Peak	Horizontal	-1.95

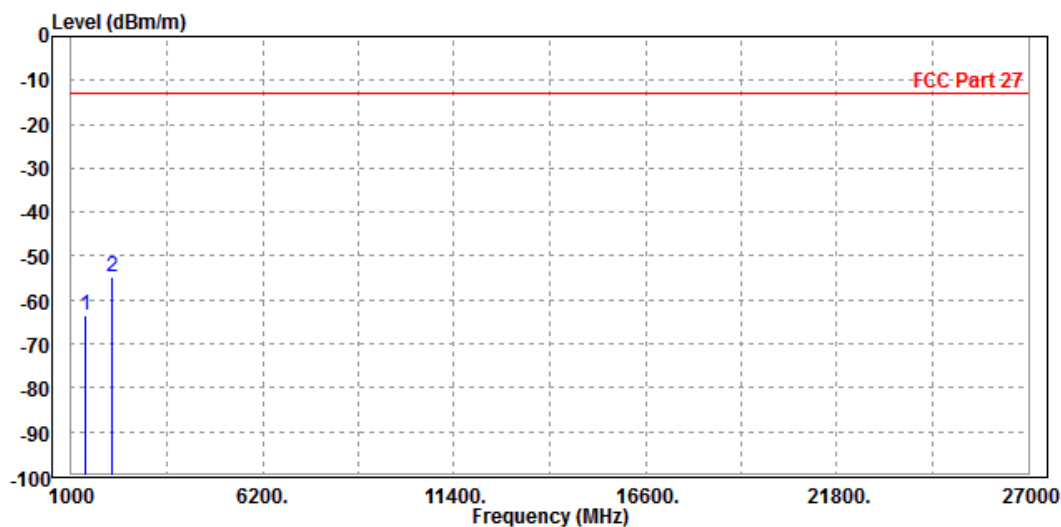




Test Report No.: RF180302W006-3

MODE	TX channel 23025	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH	INPUT POWER	DC 3.8V
TESTED BY	Tony Zou		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

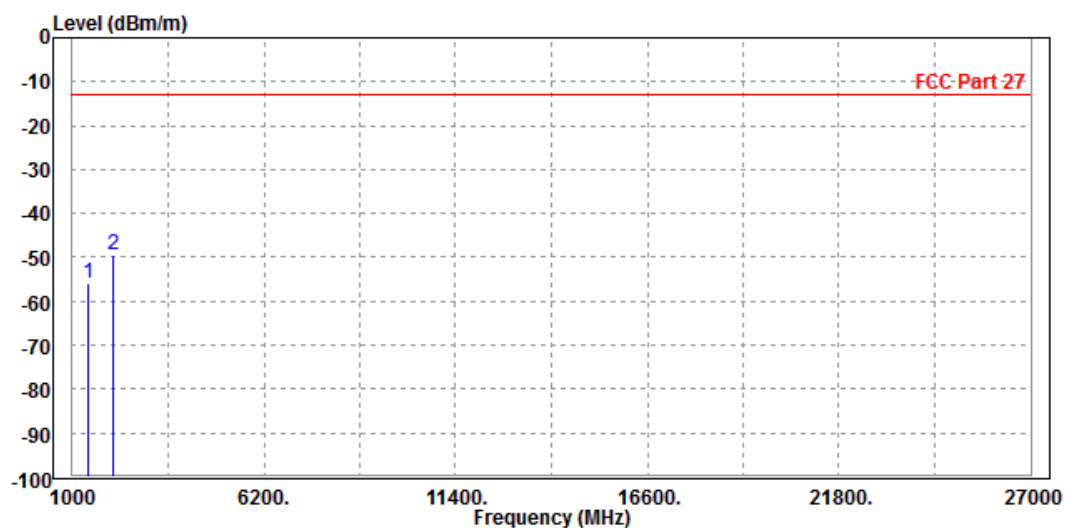
	Freq	Level	Read Level	Over Limit	Limit	Line Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	1390.000	-63.53	-57.93	-50.53	-13.00	Peak	Vertical	-5.60
2	2100.000	-54.89	-54.64	-41.89	-13.00	Peak	Vertical	-0.25



CH23095

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH	INPUT POWER	DC 3.8V
TESTED BY	Tony Zou		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	1416.000	-55.80	-49.08	-42.80	-13.00	Peak	Horizontal	-6.72
2 PP	2122.500	-49.52	-47.59	-36.52	-13.00	Peak	Horizontal	-1.93

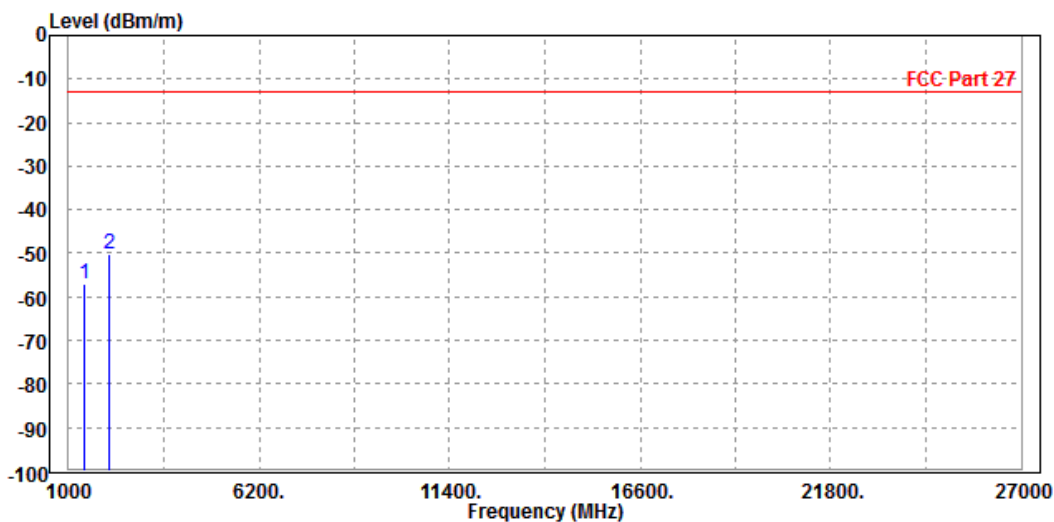




Test Report No.: RF180302W006-3

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH	INPUT POWER	DC 3.8V
TESTED BY	Tony Zou		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

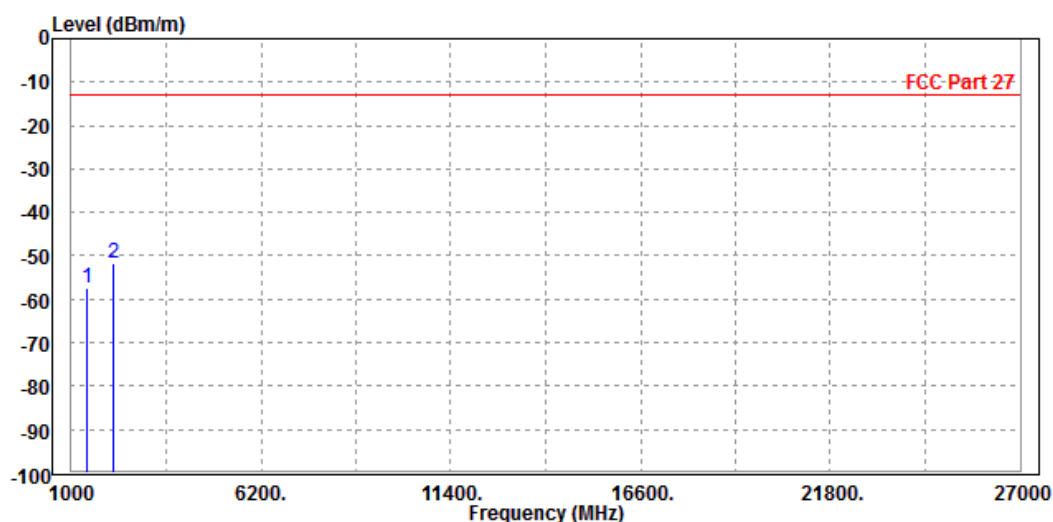
	Freq	Level	Read Level	Over Limit	Limit	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	1416.000	-56.99	-51.55	-43.99	-13.00	Peak	Vertical	-5.44
2 PP	2122.500	-50.05	-49.81	-37.05	-13.00	Peak	Vertical	-0.24



CH23165

MODE	TX channel 23165	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH	INPUT POWER	DC 3.8V
TESTED BY	Tony Zou		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	1416.000	-57.38	-50.66	-44.38	-13.00	Peak	Horizontal	-6.72
2 PP	2133.000	-51.71	-49.78	-38.71	-13.00	Peak	Horizontal	-1.93

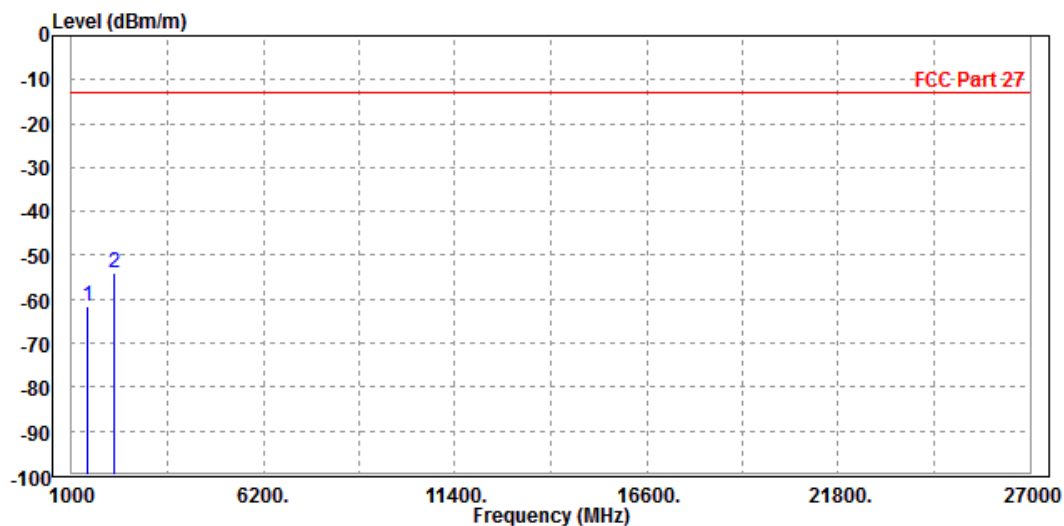




Test Report No.: RF180302W006-3

MODE	TX channel 23165	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH	INPUT POWER	DC 3.8V
TESTED BY	Tony Zou		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	1416.000	-61.63	-56.19	-48.63	-13.00	Peak	Vertical	-5.44
2 PP	2133.000	-54.14	-53.90	-41.14	-13.00	Peak	Vertical	-0.24



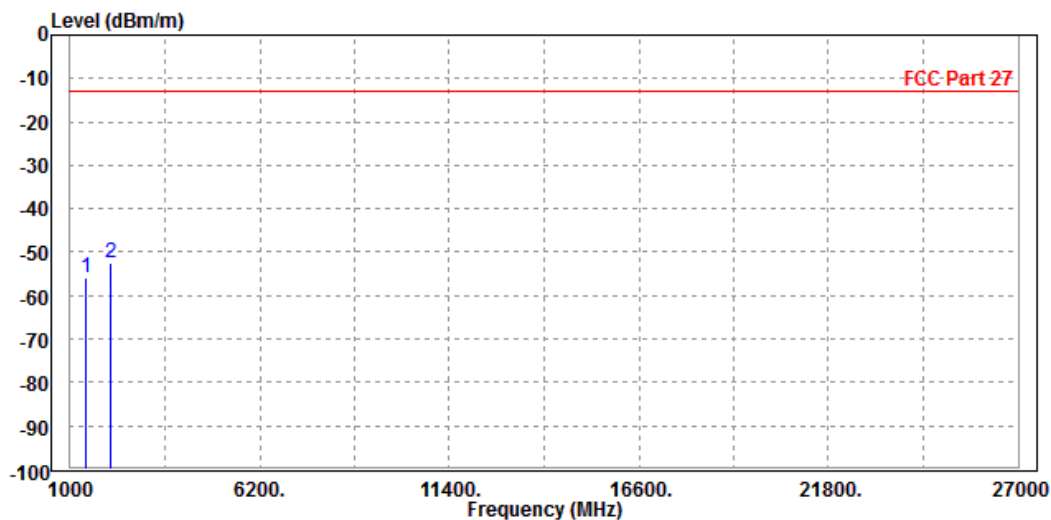


Test Report No.: RF180302W006-3

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH	INPUT POWER	DC 3.8V
TESTED BY	Tony Zou		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit Line	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	1416.000	-56.00	-49.28	-43.00	-13.00	Peak	Horizontal	-6.72
2 PP	2122.500	-52.50	-50.57	-39.50	-13.00	Peak	Horizontal	-1.93

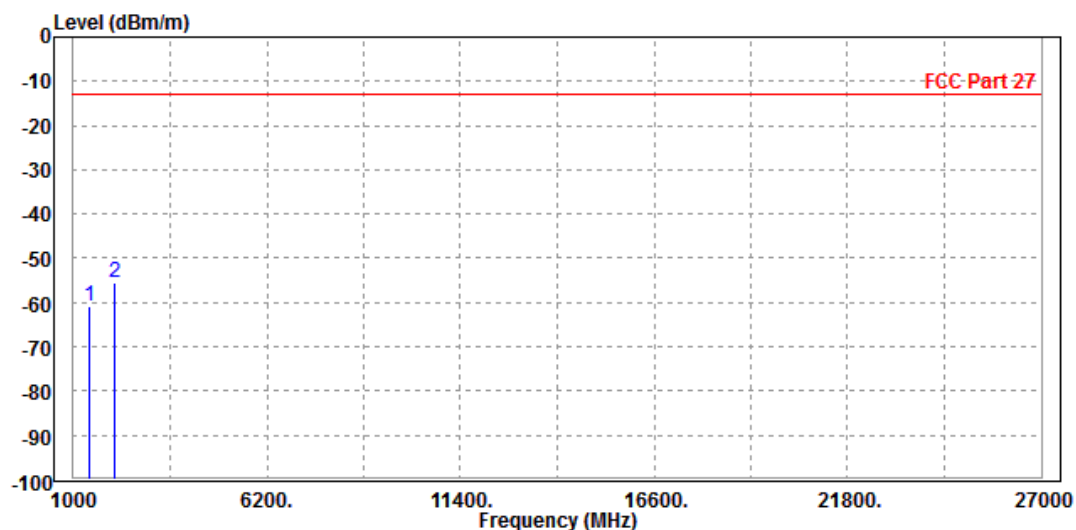




Test Report No.: RF180302W006-3

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH	INPUT POWER	DC 3.8V
TESTED BY	Tony Zou		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit	Line Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	1416.000	-60.74	-55.30	-47.74	-13.00	Peak	Vertical	-5.44
2	PP 2122.500	-55.60	-55.36	-42.60	-13.00	Peak	Vertical	-0.24



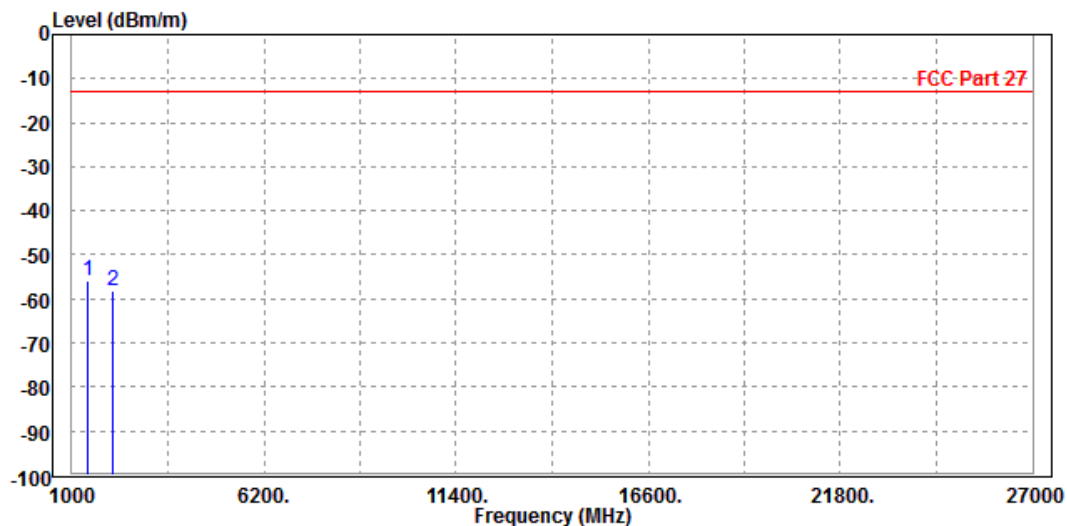


Test Report No.: RF180302W006-3

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH	INPUT POWER	DC 3.8V
TESTED BY	Tony Zou		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit	Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1 PP	1416.000	-55.87	-49.15	-42.87	-13.00	Peak	Horizontal	-6.72
2	2122.500	-58.34	-56.41	-45.34	-13.00	Peak	Horizontal	-1.93

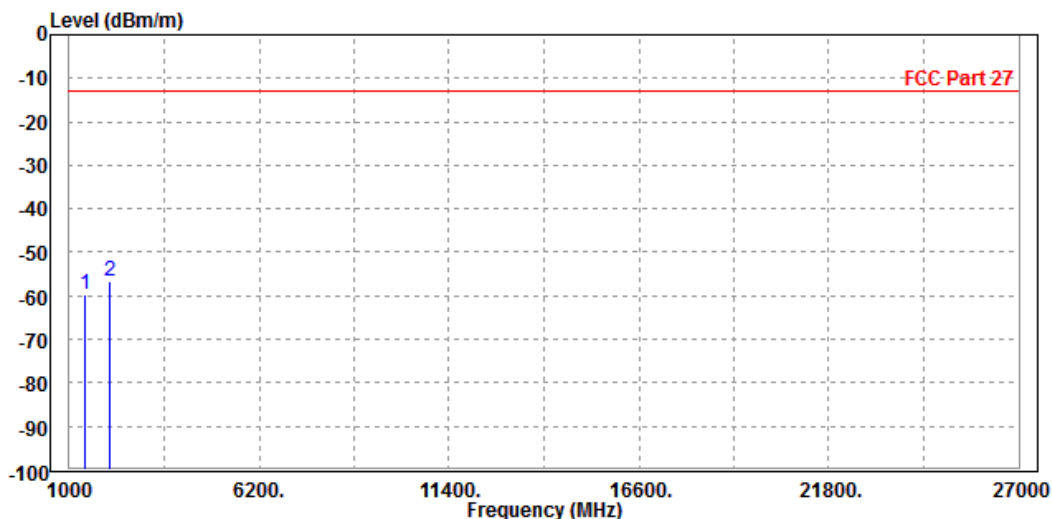




Test Report No.: RF180302W006-3

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH	INPUT POWER	DC 3.8V
TESTED BY	Tony Zou		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Over Limit	Limit	Line Remark	Pol/Phase	Factor
	MHz	dBm/m	dBm	dB	dBm/m			dB/m
1	1416.000	-59.88	-54.44	-46.88	-13.00	Peak	Vertical	-5.44
2 PP	2122.500	-56.56	-56.32	-43.56	-13.00	Peak	Vertical	-0.24





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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:

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Fax: +86-755-88696577

Email: customerservice.dg@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.: RF180302W006-3

5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

---END---