

# FCC TEST REPORT (PART 24)

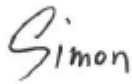
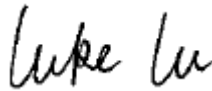
Applicant:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA

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

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

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

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

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
	
Date: Nov. 04, 2021	Date: Nov. 04, 2021

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P20210616-3RF02	Original release	Nov. 04, 2021



# 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 24 & Part 2		
STANDARD SECTION	TEST TYPE	RESULT
§2.1046	Coducted Output Power	Compliance
§24.232(c)	Equivalent Isotropic Radiated Power	Compliance
§2.1055 §24.235	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§24.232(d)	Peak to average ratio	Compliance
§24.238(a)(b)	Band Edge Measurements	Compliance
§2.1051 §24.238(a)(b)	Conducted Spurious Emissions	Compliance
§2.1053 §24.238(a)(b)	Radiated Spurious Emissions	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 & 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
Peak to average ratio	±0.76dB

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



## 1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 22,21	Apr. 21,22
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 03,21	Jun. 02,22
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-051	Feb. 14,20	Feb. 13,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,21	Mar. 04,22
Horn Antenna	ETS-LINDGREN	3117	00168692	Apr. 02,21	Apr. 01,22
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 26, 20	Aug. 25, 21
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 25, 21	Aug. 24, 22
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 25,21	Feb. 24,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 03,21	Jun. 02,22
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 22,21	Apr. 21,22
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_V 7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 03,21	Jun. 02,22
Power Meter	Anritsu	ML2495A	1506002	Apr. 07,21	Apr. 06,22
Power Sensor	Anritsu	MA2411B	1339352	May. 07,21	May. 06,22
Temperature Chamber	ESPEC	SH-242	93000855	Jun. 02,21	Jun. 01,22
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Mar. 05,21	Mar. 04,22
Power Divider	MCLI/USA	PS2-15	24880	N/A	N/A

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



## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	FE5NA0020	
<b>BRAND NAME</b>	Continental	
<b>MODEL NAME</b>	FE5NA0020	
<b>NOMINAL VOLTAGE</b>	EUT 4.0V	
<b>MODULATION TYPE</b>	<b>GSM/GPRS: GMSK</b> <b>EDGE: 8PSK</b> <b>WCDMA: QPSK</b> <b>LTE Band 2: QPSK, 16QAM, 64QAM</b>	
<b>FREQUENCY RANGE</b>	<b>GSM/GPRS, EDGE</b>	1850.2MHz ~ 1909.8MHz
	<b>WCDMA</b>	1852.4MHz ~ 1907.6MHz
	<b>LTE Band 2 Channel Bandwidth: 1.4MHz</b>	1850.7MHz ~ 1909.3MHz
	<b>LTE Band 2 Channel Bandwidth: 3MHz</b>	1851.5MHz ~ 1908.5MHz
	<b>LTE Band 2 Channel Bandwidth: 5MHz</b>	1852.5MHz ~ 1907.5MHz
	<b>LTE Band 2 Channel Bandwidth: 10MHz</b>	1855.0MHz ~ 1905.0MHz
	<b>LTE Band 2 Channel Bandwidth: 15MHz</b>	1857.5MHz ~ 1902.5MHz
	<b>LTE Band 2 Channel Bandwidth: 20MHz</b>	1860.0MHz ~ 1900.0MHz
	<b>LTE Band 25 Channel Bandwidth: 1.4MHz</b>	1850.7MHz ~ 1914.3MHz
	<b>LTE Band 25 Channel Bandwidth: 3MHz</b>	1851.5MHz ~ 1913.5MHz
	<b>LTE Band 25 Channel Bandwidth: 5MHz</b>	1852.5MHz ~ 1912.5MHz
	<b>LTE Band 25 Channel Bandwidth: 10MHz</b>	1855.0MHz ~ 1910.0MHz
	<b>LTE Band 25 Channel Bandwidth: 15MHz</b>	1857.5MHz ~ 1907.5MHz
	<b>LTE Band 25 Channel Bandwidth: 20MHz</b>	1860.0MHz ~ 1905.0MHz



<b>MAX. EIRP POWER</b>	<b>GSM/GPRS</b>	1020.94mW
	<b>EDGE</b>	427.56mW
	<b>WCDMA</b>	333.43mW
	<b>LTE Band 2 Channel Bandwidth: 1.4MHz</b>	311.17mW
	<b>LTE Band 2 Channel Bandwidth: 3MHz</b>	309.74mW
	<b>LTE Band 2 Channel Bandwidth: 5MHz</b>	310.46mW
	<b>LTE Band 2 Channel Bandwidth: 10MHz</b>	308.22mW
	<b>LTE Band 2 Channel Bandwidth: 15MHz</b>	313.33mW
	<b>LTE Band 2 Channel Bandwidth: 20MHz</b>	314.05mW
	<b>LTE Band 25 Channel Bandwidth: 1.4MHz</b>	367.28mW
	<b>LTE Band 25 Channel Bandwidth: 3MHz</b>	364.75mW
	<b>LTE Band 25 Channel Bandwidth: 5MHz</b>	365.59mW
	<b>LTE Band 25 Channel Bandwidth: 10MHz</b>	363.08mW
	<b>LTE Band 25 Channel Bandwidth: 15MHz</b>	368.98mW
	<b>LTE Band 25 Channel Bandwidth: 20MHz</b>	369.83mW





<b>EMISSION DESIGNATOR</b>	<b>GSM/GPRS</b>	246KGXW	
	<b>EDGE</b>	242KG7W	
	<b>WCDMA</b>	4M16F9W	
	<b>LTE Band 2 Channel Bandwidth: 1.4MHz</b>	QPSK: 1M12G7D	
		16QAM: 1M11W7D	
		64QAM: 1M11W7D	
	<b>LTE Band 2 Channel Bandwidth: 3MHz</b>	QPSK: 2M75G7D	
		16QAM: 2M75W7D	
		64QAM: 2M75W7D	
	<b>LTE Band 2 Channel Bandwidth: 5MHz</b>	QPSK: 4M56G7D	
		16QAM: 4M57W7D	
		64QAM: 4M57W7D	
	<b>LTE Band 2 Channel Bandwidth: 10MHz</b>	QPSK: 9M05G7D	
		16QAM: 9M06W7D	
		64QAM: 9M04W7D	
	<b>LTE Band 2 Channel Bandwidth: 15MHz</b>	QPSK: 13M6G7D	
		16QAM: 13M6W7D	
		64QAM: 13M6W7D	
	<b>LTE Band 2 Channel Bandwidth: 20MHz</b>	QPSK: 18M1G7D	
		16QAM: 18M1W7D	
		64QAM: 18M1W7D	
	<b>LTE Band 25 Channel Bandwidth: 1.4MHz</b>	QPSK: 1M11G7D	
		16QAM: 1M11W7D	
		64QAM: 1M10W7D	
	<b>LTE Band 25 Channel Bandwidth: 3MHz</b>	QPSK: 2M74G7D	
		16QAM: 2M76W7D	
		64QAM: 2M74W7D	
	<b>LTE Band 25 Channel Bandwidth: 5MHz</b>	QPSK: 4M57G7D	
		16QAM: 4M57W7D	
		64QAM: 4M57W7D	
<b>LTE Band 25 Channel Bandwidth: 10MHz</b>	QPSK: 9M05G7D		
	16QAM: 9M06W7D		
	64QAM: 9M02W7D		
<b>LTE Band 25 Channel Bandwidth: 15MHz</b>	QPSK: 13M6G7D		
	16QAM: 13M6W7D		
	64QAM: 13M6W7D		
<b>LTE Band 25 Channel Bandwidth: 20MHz</b>	QPSK: 18M1G7D		
	16QAM: 18M1W7D		
	64QAM: 18M1W7D		



<b>ANTENNA TYPE</b>	Monopole Antenna with 0.93dBi gain for GSM1900 Monopole Antenna with 2.45dBi gain for WCDMA II/LTE B2 Monopole Antenna with 3.09dBi gain for LTE B25
<b>HW VERSION</b>	P4.1
<b>SW VERSION</b>	MODEMSA515M_01.15.62
<b>I/O PORTS</b>	Refer to user's manual
<b>CABLE SUPPLIED</b>	N/A
<b>EXTREME TEMPERATURE</b>	-40-85 °C
<b>EXTREME VOLTAGE</b>	EUT 3.8V - EUT 4.2V

**NOTE:**

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

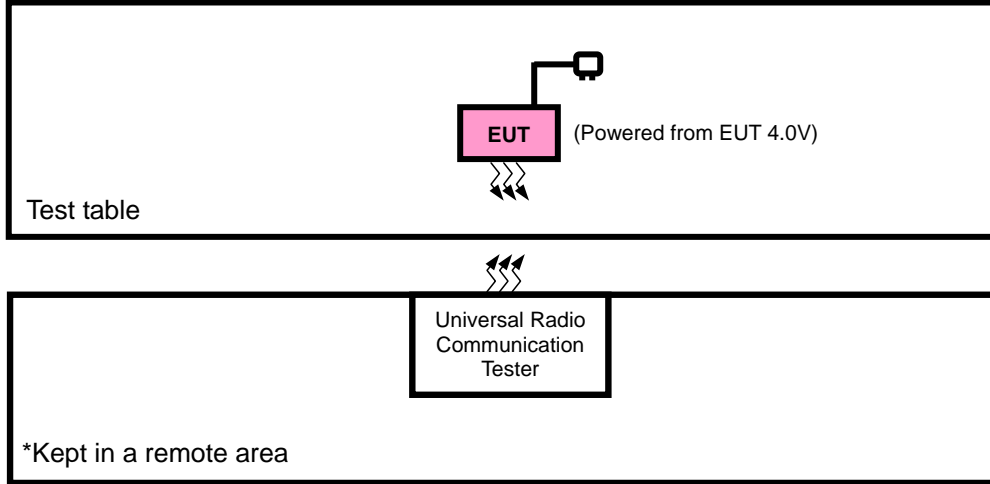
<b>MODULATION MODE</b>	<b>TX FUNCTION</b>
<b>GSM/GPRS/EDGE</b>	1TX/2RX
<b>WCDMA</b>	1TX/2RX
<b>LTE</b>	1TX/4RX

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



## 2.2 CONFIGURATION OF SYSTEM UNDER TEST

### FOR RADIATION EMISSION 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	Kikusui/JP	PMX18-5A	0000001	N/A

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

### 2.4 TEST ITEM AND TEST CONFIGURATION

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

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

#### GSM MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	512 to 810	512, 661, 810	GSM, EDGE
A	FREQUENCY STABILITY	512 to 810	512, 661, 810	GSM, EDGE
A	OCCUPIED BANDWIDTH	512 to 810	512, 661, 810	GSM, EDGE
A	PEAK TO AVERAGE RATIO	512 to 810	512, 661, 810	GSM, EDGE
A	BAND EDGE	512 to 810	512, 810	GSM, EDGE
A	CONDUCTED EMISSION	512 to 810	512, 661, 810	GSM, EDGE
A	RADIATED EMISSION	512 to 810	512, 661, 810	GSM, EDGE



**WCDMA**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
A	FREQUENCY STABILITY	9262 to 9538	9262, 9400, 9538	WCDMA
A	OCCUPIED BANDWIDTH	9262 to 9538	9262, 9400, 9538	WCDMA
A	PEAK TO AVERAGE RATIO	9262 to 9538	9262, 9400, 9538	WCDMA
A	BAND EDGE	9262 to 9538	9262, 9538	WCDMA
A	CONDCUDED EMISSION	9262 to 9538	9262, 9400, 9538	WCDMA
A	RADIATED EMISSION	9262 to 9538	9262, 9400, 9538	WCDMA

**LTE BAND 2 MODE**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
A	FREQUENCY STABILITY	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,16QAM, 64QAM	6 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK,16QAM, 64QAM	15 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK,16QAM, 64QAM	25 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK,16QAM, 64QAM	50 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK,16QAM, 64QAM	75 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK,16QAM, 64QAM	100 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,16QAM, 64QAM	6 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK,16QAM, 64QAM	15 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK,16QAM, 64QAM	25 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK,16QAM, 64QAM	50 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK,16QAM, 64QAM	75 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK,16QAM, 64QAM	100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset



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A	BAND EDGE	18607 to 19193	18607	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset		
			19193	1.4MHz	QPSK,16QAM, 64QAM	6 RB / 0 RB Offset		
		18615 to 19185	18615	3MHz	QPSK,16QAM, 64QAM	1 RB / 5 RB Offset		
			19185	3MHz	QPSK,16QAM, 64QAM	6 RB / 0 RB Offset		
		18625 to 19175	18625	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset		
			19175	5MHz	QPSK,16QAM, 64QAM	15 RB / 0 RB Offset		
		18650 to 19150	18650	10MHz	QPSK,16QAM, 64QAM	1 RB / 14 RB Offset		
			19150	10MHz	QPSK,16QAM, 64QAM	15 RB / 0 RB Offset		
		18675 to 19125	18675	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset		
			19125	15MHz	QPSK,16QAM, 64QAM	25 RB / 0 RB Offset		
		18700 to 19100	18700	20MHz	QPSK,16QAM, 64QAM	1 RB / 24 RB Offset		
			19100	20MHz	QPSK,16QAM, 64QAM	25 RB / 0 RB Offset		
		A	CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
				18615 to 19185	18615, 18900, 19185	3MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
				18625 to 19175	18625, 18900, 19175	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
				18650 to 19150	18650, 18900, 19150	10MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
				18675 to 19125	18675, 18900, 19125	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
				18700 to 19100	18700, 18900, 19100	20MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	18607 to 19193	18900	1.4MHz	QPSK	1 RB / 0 RB Offset		
		18615 to 19185	18900	3MHz	QPSK	1 RB / 0 RB Offset		
		18625 to 19175	18900	5MHz	QPSK	1 RB / 0 RB Offset		
		18650 to 19150	18607, 18900, 19193	10MHz	QPSK	1 RB / 0 RB Offset		
		18675 to 19125	18900	15MHz	QPSK	1 RB / 0 RB Offset		
		18700 to 19100	18900	20MHz	QPSK	1 RB / 0 RB Offset		



**LTE BAND 25 MODE**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
A	FREQUENCY STABILITY	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM, 64QAM	6 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM, 64QAM	15 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM, 64QAM	25 RB / 0 RB Offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK,16QAM, 64QAM	50 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM, 64QAM	75 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK,16QAM, 64QAM	100 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM, 64QAM	6 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM, 64QAM	15 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM, 64QAM	25 RB / 0 RB Offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK,16QAM, 64QAM	50 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM, 64QAM	75 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK,16QAM, 64QAM	100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset



A	BAND EDGE	26047 to 26683	26047	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset		
			26683	1.4MHz	QPSK,16QAM, 64QAM	6 RB / 0 RB Offset		
		26055 to 26675	26055	3MHz	QPSK,16QAM, 64QAM	1 RB / 5 RB Offset		
			26675	3MHz	QPSK,16QAM, 64QAM	6 RB / 0 RB Offset		
		26065 to 26665	26065	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset		
			26665	5MHz	QPSK,16QAM, 64QAM	15 RB / 0 RB Offset		
		26090 to 26640	26090	10MHz	QPSK,16QAM, 64QAM	1 RB / 14 RB Offset		
			26640	10MHz	QPSK,16QAM, 64QAM	15 RB / 0 RB Offset		
		26115 to 26615	26115	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset		
			26615	15MHz	QPSK,16QAM, 64QAM	25 RB / 0 RB Offset		
		26140 to 26590	26140	20MHz	QPSK,16QAM, 64QAM	1 RB / 24 RB Offset		
			26590	20MHz	QPSK,16QAM, 64QAM	25 RB / 0 RB Offset		
		A	CONDCUDED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
				26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
				26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
				26090 to 26640	26090, 26365, 26640	10MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
26115 to 26615	26115, 26365, 26615			15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset		
26140 to 26590	26140, 26365, 26590			20MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset		
A	RADIATED EMISSION	26047 to 26683	26365	1.4MHz	QPSK	1 RB / 0 RB Offset		
		26055 to 26675	26365	3MHz	QPSK	1 RB / 0 RB Offset		
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK	1 RB / 0 RB Offset		
		26090 to 26640	26365	10MHz	QPSK	1 RB / 0 RB Offset		
		26115 to 26615	26365	15MHz	QPSK	1 RB / 0 RB Offset		
		26140 to 26590	26365	20MHz	QPSK	1 RB / 0 RB Offset		

**TEST CONDITION:**

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	25deg. C, 57%RH	EUT 4.0V	Jace Hu
FREQUENCY STABILITY	23deg. C, 61%RH	EUT 4.0V	James Fu
OCCUPIED BANDWIDTH	23deg. C, 61%RH	EUT 4.0V	James Fu
PEAK TO AVERAGE RATIO	23deg. C, 61%RH	EUT 4.0V	James Fu
BAND EDGE	23deg. C, 61%RH	EUT 4.0V	James Fu
CONDCUDED EMISSION	23deg. C, 61%RH	EUT 4.0V	James Fu
RADIATED EMISSION	23deg. C, 70%RH	EUT 4.0V	Jace Hu





## 2.5 EUT OPERATING CONDITIONS

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

## 2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 24**

**KDB 971168 D01 Power Meas License Digital Systems v03r01**

**ANSI/TIA/EIA-603-D**

**ANSI/TIA/EIA-603-E**

**ANSI C63.26-2015**

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

## 3 TEST TYPES AND RESULTS

### 3.1 OUTPUT POWER MEASUREMENT

#### 3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts EIRP.

#### 3.1.2 TEST PROCEDURES

##### **EIRP MEASUREMENT:**

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for 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  $P_{\text{Meas}}$ , typically dBW or dBm);

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

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

$L_{\text{C}}$  = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

##### **CONDUCTED POWER MEASUREMENT:**

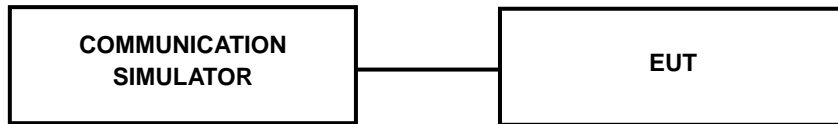
The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



### 3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



### 3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	GSM1900			Max. Tune-up Power
	512	661	810	
Channel	1850.2	1880	1909.8	
Frequency	1850.2	1880	1909.8	
GSM (GMSK, 1Tx-slot)	29.03	29.06	28.84	30.5
GPRS (GMSK, 1Tx-slot)	29.11	<b>29.16</b>	28.88	30.5
GPRS (GMSK, 2Tx-slot)	26.05	26.07	25.82	27.5
GPRS (GMSK, 3Tx-slot)	24.54	24.76	24.44	26.0
GPRS (GMSK, 4Tx-slot)	23.56	23.79	23.37	24.5
EDGE (8PSK, 1Tx-slot)	25.04	25.38	24.96	26.5
EDGE (8PSK, 2Tx-slot)	23.40	23.67	23.33	24.5
EDGE (8PSK, 3Tx-slot)	22.58	22.76	22.45	23.5
EDGE (8PSK, 4Tx-slot)	21.34	21.63	21.28	22.5

Band	WCDMA II			Max. Tune-up Power
	9262	9400	9538	
Channel	1852.4	1880	1907.6	
Frequency	1852.4	1880	1907.6	
RMC 12.2K	22.76	<b>22.78</b>	22.59	24.0
HSDPA Subtest-1	21.80	21.81	21.59	23.0
HSDPA Subtest-2	21.75	21.80	21.59	23.0
HSDPA Subtest-3	21.35	21.40	21.19	22.5
HSDPA Subtest-4	21.27	21.32	21.18	22.5
DC-HSDPA Subtest-1	21.68	21.71	21.55	23.0
DC-HSDPA Subtest-2	21.56	21.61	21.53	23.0
DC-HSDPA Subtest-3	21.20	21.21	21.04	22.5
DC-HSDPA Subtest-4	21.12	21.18	21.03	22.5
HSUPA Subtest-1	21.68	21.71	21.56	23.0
HSUPA Subtest-2	19.59	19.67	19.53	21.0
HSUPA Subtest-3	20.74	20.72	20.61	22.0
HSUPA Subtest-4	19.51	19.59	19.51	21.0
HSUPA Subtest-5	21.63	21.64	21.57	23.0



**LTE BAND 2**

Band/BW	Modulation	RB Size	RB Offset	Low CH 18607	Mid CH 18900	High CH 19193	MPR
				Frequency 1850.7 MHz	Frequency 1880 MHz	Frequency 1909.3 MHz	
2/ 1.4	QPSK	1	0	22.44	22.22	22.15	0
		1	2	22.27	22.02	22.01	0
		1	5	22.26	22.04	22.06	0
		3	0	22.35	22.11	22.19	0
		3	1	22.48	22.23	22.12	0
		3	3	22.32	22.07	22.12	0
		6	0	21.44	21.13	21.16	1
	16QAM	1	0	21.73	21.50	21.45	1
		1	2	21.62	21.32	21.39	1
		1	5	21.51	21.29	21.33	1
		3	0	21.41	21.11	21.16	1
		3	1	21.37	21.25	21.18	1
		3	3	21.38	21.11	21.17	1
		6	0	20.40	20.17	20.09	2
	64QAM	1	0	20.63	20.45	20.45	2
		1	2	20.50	20.28	20.25	2
		1	5	20.47	20.16	20.26	2
		3	0	20.40	20.18	20.08	2
		3	1	20.41	20.21	20.17	2
		3	3	20.40	20.15	20.17	2
		6	0	19.39	19.09	19.14	3



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**Test Report No.: W7L-P20210616-3RF02**

Band/BW	Modulation	RB Size	RB Offset	Low CH 18615	Mid CH 18900	High CH 19185	MPR
				Frequency 1851.5 MHz	Frequency 1880 MHz	Frequency 1908.5 MHz	
2/3	QPSK	1	0	22.46	22.24	22.14	0
		1	7	22.23	22.03	22.01	0
		1	14	22.22	22.06	22.03	0
		8	0	21.34	21.14	21.19	1
		8	3	21.41	21.23	21.14	1
		8	7	21.29	21.14	21.16	1
		15	0	21.41	21.14	21.10	1
	16QAM	1	0	21.70	21.56	21.48	1
		1	7	21.59	21.35	21.37	1
		1	14	21.54	21.29	21.33	1
		8	0	20.37	20.12	20.16	2
		8	3	20.42	20.20	20.21	2
		8	7	20.40	20.09	20.13	2
		15	0	20.40	20.11	20.12	2
	64QAM	1	0	20.69	20.48	20.39	2
		1	7	20.53	20.22	20.24	2
		1	14	20.48	20.18	20.26	2
		8	0	19.43	19.22	19.09	3
		8	3	19.45	19.15	19.22	3
		8	7	19.37	19.19	19.13	3
		15	0	19.41	19.06	19.18	3



Band/BW	Modulation	RB Size	RB Offset	Low CH 18625	Mid CH 18900	High CH 19175	MPR
				Frequency 1852.5 MHz	Frequency 1880 MHz	Frequency 1907.5 MHz	
2 / 5	QPSK	1	0	22.47	22.19	22.15	0
		1	12	22.28	22.06	22.01	0
		1	24	22.23	22.03	22.03	0
		12	0	21.37	21.14	21.16	1
		12	6	21.41	21.24	21.15	1
		12	13	21.33	21.10	21.17	1
		25	0	21.39	21.17	21.13	1
	16QAM	1	0	21.71	21.52	21.48	1
		1	12	21.56	21.38	21.36	1
		1	24	21.54	21.29	21.32	1
		12	0	20.37	20.10	20.13	2
		12	6	20.39	20.24	20.17	2
		12	13	20.35	20.11	20.16	2
		25	0	20.40	20.12	20.09	2
	64QAM	1	0	20.63	20.45	20.45	2
		1	12	20.50	20.28	20.24	2
		1	24	20.41	20.23	20.26	2
		12	0	19.44	19.19	19.08	3
		12	6	19.39	19.22	19.21	3
		12	13	19.41	19.18	19.10	3
		25	0	19.37	19.12	19.16	3



Band/BW	Modulation	RB Size	RB Offset	Low CH 18650	Mid CH 18900	High CH 19150	MPR
				Frequency 1855 MHz	Frequency 1880 MHz	Frequency 1905 MHz	
2/ 10	QPSK	1	0	22.44	22.22	22.15	0
		1	24	22.28	22.08	22.02	0
		1	49	22.20	22.02	22.05	0
		25	0	21.38	21.13	21.19	1
		25	12	21.47	21.18	21.15	1
		25	25	21.31	21.07	21.16	1
		50	0	21.44	21.17	21.10	1
	16QAM	1	0	21.71	21.49	21.44	1
		1	24	21.61	21.34	21.39	1
		1	49	21.54	21.30	21.29	1
		25	0	20.39	20.08	20.19	2
		25	12	20.43	20.18	20.22	2
		25	25	20.34	20.12	20.13	2
		50	0	20.44	20.11	20.13	2
	64QAM	1	0	20.62	20.46	20.42	2
		1	24	20.55	20.24	20.28	2
		1	49	20.47	20.17	20.23	2
		25	0	19.42	19.16	19.14	3
		25	12	19.46	19.21	19.15	3
		25	25	19.40	19.15	19.12	3
		50	0	19.42	19.08	19.17	3



Band/BW	Modulation	RB Size	RB Offset	Low CH 18675	Mid CH 18900	High CH 19125	MPR
				Frequency 1857.5 MHz	Frequency 1880 MHz	Frequency 1902.5 MHz	
2/ 15	QPSK	1	0	22.51	22.22	22.12	0
		1	37	22.26	22.05	22.02	0
		1	74	22.26	22.05	22.05	0
		36	0	21.35	21.14	21.20	1
		36	19	21.48	21.23	21.15	1
		36	39	21.29	21.08	21.16	1
		75	0	21.44	21.15	21.15	1
	16QAM	1	0	21.75	21.56	21.44	1
		1	37	21.60	21.35	21.39	1
		1	74	21.50	21.35	21.31	1
		36	0	20.43	20.08	20.20	2
		36	19	20.37	20.22	20.18	2
		36	39	20.39	20.10	20.16	2
		75	0	20.45	20.14	20.06	2
	64QAM	1	0	20.64	20.47	20.43	2
		1	37	20.56	20.23	20.25	2
		1	74	20.43	20.16	20.26	2
		36	0	19.47	19.22	19.08	3
		36	19	19.40	19.15	19.17	3
		36	39	19.43	19.22	19.14	3
		75	0	19.41	19.06	19.18	3





Band/BW	Modulation	RB Size	RB Offset	Low CH 18700	Mid CH 18900	High CH 19100	MPR
				Frequency 1860 MHz	Frequency 1880 MHz	Frequency 1900 MHz	
2/ 20	QPSK	1	0	<b>22.52</b>	22.26	22.20	0
		1	50	22.30	22.08	22.03	0
		1	99	22.28	22.06	22.01	0
		50	0	21.41	21.19	21.21	1
		50	25	21.49	21.25	21.20	1
		50	50	21.37	21.15	21.18	1
		100	0	21.45	21.19	21.18	1
	16QAM	1	0	21.78	21.57	21.50	1
		1	50	21.64	21.40	21.41	1
		1	99	21.56	21.37	21.34	1
		50	0	20.45	20.16	20.21	2
		50	25	20.45	20.26	20.23	2
		50	50	20.42	20.16	20.18	2
		100	0	20.46	20.19	20.14	2
	64QAM	1	0	20.70	20.50	20.47	2
		1	50	20.58	20.30	20.30	2
		1	99	20.49	20.24	20.28	2
		50	0	19.48	19.24	19.16	3
		50	25	19.47	19.23	19.23	3
		50	50	19.45	19.23	19.18	3
		100	0	19.43	19.14	19.19	3



**LTE BAND 25**

Band/BW	Modulation	RB Size	RB Offset	Low CH 26047	Mid CH 26365	High CH 26683	MPR
				Frequency 1850.7 MHz	Frequency 1882.5 MHz	Frequency 1914.3 MHz	
25/ 1.4	QPSK	1	0	22.51	22.40	22.28	0
		1	2	22.37	22.23	22.17	0
		1	5	22.42	22.26	22.18	0
		3	0	22.49	22.36	22.39	0
		3	1	22.56	22.42	22.26	0
		3	3	22.37	22.23	22.23	0
		6	0	21.46	21.26	21.24	1
	16QAM	1	0	21.85	21.73	21.63	1
		1	2	21.70	21.51	21.53	1
		1	5	21.57	21.46	21.45	1
		3	0	21.57	21.38	21.38	1
		3	1	21.45	21.44	21.32	1
		3	3	21.45	21.29	21.30	1
		6	0	20.42	20.30	20.17	2
	64QAM	1	0	20.65	20.58	20.53	2
		1	2	20.56	20.45	20.37	2
		1	5	20.54	20.34	20.39	2
		3	0	20.55	20.44	20.29	2
		3	1	20.49	20.40	20.31	2
		3	3	20.48	20.34	20.31	2
		6	0	19.46	19.27	19.27	3



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**Test Report No.: W7L-P20210616-3RF02**

Band/BW	Modulation	RB Size	RB Offset	Low CH 26055	Mid CH 26365	High CH 26675	MPR
				Frequency 1851.5 MHz	Frequency 1882.5 MHz	Frequency 1913.5 MHz	
25/ 3	QPSK	1	0	22.53	22.42	22.27	0
		1	7	22.33	22.24	22.17	0
		1	14	22.38	22.26	22.18	0
		8	0	21.48	21.39	21.39	1
		8	3	21.49	21.42	21.28	1
		8	7	21.34	21.30	21.27	1
		15	0	21.43	21.27	21.18	1
	16QAM	1	0	21.82	21.79	21.66	1
		1	7	21.67	21.54	21.51	1
		1	14	21.60	21.46	21.45	1
		8	0	20.53	20.39	20.38	2
		8	3	20.50	20.39	20.35	2
		8	7	20.47	20.27	20.26	2
		15	0	20.42	20.24	20.20	2
	64QAM	1	0	20.71	20.61	20.47	2
		1	7	20.59	20.39	20.36	2
		1	14	20.55	20.36	20.39	2
		8	0	19.58	19.48	19.30	3
		8	3	19.53	19.34	19.36	3
		8	7	19.45	19.38	19.27	3
		15	0	19.48	19.24	19.31	3



Band/BW	Modulation	RB Size	RB Offset	Low CH 26065	Mid CH 26365	High CH 26665	MPR
				Frequency 1852.5 MHz	Frequency 1882.5 MHz	Frequency 1912.5 MHz	
25/ 5	QPSK	1	0	22.54	22.37	22.28	0
		1	12	22.38	22.21	22.17	0
		1	24	22.39	22.25	22.22	0
		12	0	21.51	21.39	21.36	1
		12	6	21.49	21.43	21.29	1
		12	13	21.38	21.26	21.28	1
		25	0	21.41	21.30	21.21	1
	16QAM	1	0	21.83	21.75	21.66	1
		1	12	21.64	21.57	21.50	1
		1	24	21.60	21.46	21.44	1
		12	0	20.53	20.37	20.35	2
		12	6	20.47	20.43	20.31	2
		12	13	20.42	20.29	20.29	2
		25	0	20.42	20.25	20.17	2
	64QAM	1	0	20.65	20.58	20.53	2
		1	12	20.56	20.45	20.36	2
		1	24	20.48	20.41	20.39	2
		12	0	19.59	19.45	19.29	3
		12	6	19.47	19.41	19.35	3
		12	13	19.49	19.37	19.24	3
		25	0	19.44	19.30	19.29	3



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**Test Report No.: W7L-P20210616-3RF02**

Band/BW	Modulation	RB Size	RB Offset	Low CH 26090	Mid CH 26365	High CH 26640	MPR
				Frequency 1855 MHz	Frequency 1882.5 MHz	Frequency 1910 MHz	
25/ 10	QPSK	1	0	22.51	22.40	22.28	0
		1	24	22.38	22.21	22.18	0
		1	49	22.36	22.29	22.18	0
		25	0	21.52	21.38	21.39	1
		25	12	21.55	21.37	21.29	1
		25	25	21.36	21.23	21.27	1
		50	0	21.46	21.30	21.18	1
	16QAM	1	0	21.83	21.72	21.62	1
		1	24	21.69	21.53	21.53	1
		1	49	21.60	21.47	21.41	1
		25	0	20.55	20.35	20.41	2
		25	12	20.51	20.37	20.36	2
		25	25	20.41	20.30	20.26	2
		50	0	20.46	20.24	20.21	2
	64QAM	1	0	20.64	20.59	20.50	2
		1	24	20.61	20.41	20.40	2
		1	49	20.54	20.35	20.36	2
		25	0	19.57	19.42	19.35	3
		25	12	19.54	19.40	19.29	3
		25	25	19.48	19.34	19.26	3
		50	0	19.49	19.26	19.30	3



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Band/BW	Modulation	RB Size	RB Offset	Low CH 26115	Mid CH 26365	High CH 26615	MPR
				Frequency 1857.5 MHz	Frequency 1882.5 MHz	Frequency 1907.5 MHz	
25/ 15	QPSK	1	0	22.58	22.40	22.25	0
		1	37	22.36	22.26	22.13	0
		1	74	22.42	22.32	22.19	0
		36	0	21.49	21.39	21.40	1
		36	19	21.56	21.42	21.29	1
		36	39	21.34	21.24	21.27	1
		75	0	21.46	21.28	21.23	1
	16QAM	1	0	21.87	21.79	21.62	1
		1	37	21.68	21.54	21.53	1
		1	74	21.56	21.52	21.43	1
		36	0	20.59	20.35	20.42	2
		36	19	20.45	20.41	20.32	2
		36	39	20.46	20.28	20.29	2
		75	0	20.47	20.27	20.14	2
	64QAM	1	0	20.66	20.60	20.51	2
		1	37	20.62	20.40	20.37	2
		1	74	20.50	20.34	20.39	2
		36	0	19.62	19.48	19.29	3
		36	19	19.48	19.34	19.31	3
		36	39	19.51	19.41	19.28	3
		75	0	19.48	19.24	19.31	3



Band/BW	Modulation	RB Size	RB Offset	Low CH 26140	Mid CH 26365	High CH 26590	MPR
				Frequency 1860 MHz	Frequency 1882.5 MHz	Frequency 1905 MHz	
25/ 20	QPSK	1	0	<b>22.59</b>	22.44	22.33	0
		1	50	22.40	22.29	22.19	0
		1	99	22.44	22.33	22.23	0
		50	0	21.55	21.44	21.41	1
		50	25	21.57	21.44	21.34	1
		50	50	21.42	21.31	21.29	1
		100	0	21.47	21.32	21.26	1
	16QAM	1	0	21.90	21.80	21.68	1
		1	50	21.72	21.59	21.55	1
		1	99	21.62	21.54	21.46	1
		50	0	20.61	20.43	20.43	2
		50	25	20.53	20.45	20.37	2
		50	50	20.49	20.34	20.31	2
		100	0	20.48	20.32	20.22	2
	64QAM	1	0	20.72	20.63	20.55	2
		1	50	20.64	20.47	20.42	2
		1	99	20.56	20.42	20.41	2
		50	0	19.63	19.50	19.37	3
		50	25	19.55	19.42	19.37	3
		50	50	19.53	19.42	19.32	3
		100	0	19.50	19.32	19.32	3



**EIRP POWER (dBm)**

**GSM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
512	1850.2	29.11	0.93	30.04	1009.25	2
661	1880.0	29.16	0.93	30.09	1020.94	2
810	1909.8	28.88	0.93	29.81	957.19	2

**EDGE**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
512	1850.2	25.04	0.93	25.97	395.37	2
661	1880.0	25.38	0.93	26.31	427.56	2
810	1909.8	24.96	0.93	25.89	388.15	2

**WCDMA**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
9662	1852.4	22.76	2.45	25.21	331.89	2
9800	1880	22.78	2.45	25.23	333.43	2
9938	1907.6	22.59	2.45	25.04	319.15	2





**LTE BAND 2**

**CHANNEL BANDWIDTH: 1.4MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	22.48	2.45	24.93	311.17	2
18900	1880.0	22.23	2.45	24.68	293.76	2
19193	1908.3	22.19	2.45	24.64	291.07	2

**CHANNEL BANDWIDTH: 1.4MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	21.73	2.45	24.18	261.82	2
18900	1880.0	21.5	2.45	23.95	248.31	2
19193	1908.3	21.45	2.45	23.9	245.47	2

**CHANNEL BANDWIDTH: 1.4MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	20.63	2.45	23.08	203.24	2
18900	1880.0	20.45	2.45	22.9	194.98	2
19193	1908.3	20.45	2.45	22.9	194.98	2



**CHANNEL BANDWIDTH: 3MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	22.46	2.45	24.91	309.74	2
18900	1880.0	22.24	2.45	24.69	294.44	2
19185	1908.5	22.14	2.45	24.59	287.74	2

**CHANNEL BANDWIDTH: 3MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	21.7	2.45	24.15	260.02	2
18900	1880.0	21.56	2.45	24.01	251.77	2
19185	1908.5	21.48	2.45	23.93	247.17	2

**CHANNEL BANDWIDTH: 3MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	20.69	2.45	23.14	206.06	2
18900	1880.0	20.48	2.45	22.93	196.34	2
19185	1908.5	20.39	2.45	22.84	192.31	2



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**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	22.47	2.45	24.92	310.46	2
18900	1880.0	22.19	2.45	24.64	291.07	2
19175	1907.5	22.15	2.45	24.6	288.4	2

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	21.71	2.45	24.16	260.62	2
18900	1880.0	21.52	2.45	23.97	249.46	2
19175	1907.5	21.48	2.45	23.93	247.17	2

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	20.63	2.45	23.08	203.24	2
18900	1880.0	20.45	2.45	22.9	194.98	2
19175	1907.5	20.45	2.45	22.9	194.98	2



**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855.0	22.44	2.45	24.89	308.32	2
18900	1880.0	22.22	2.45	24.67	293.09	2
19150	1905.0	22.15	2.45	24.6	288.4	2

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855.0	21.71	2.45	24.16	260.62	2
18900	1880.0	21.49	2.45	23.94	247.74	2
19150	1905.0	21.44	2.45	23.89	244.91	2

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855.0	20.62	2.45	23.07	202.77	2
18900	1880.0	20.46	2.45	22.91	195.43	2
19150	1905.0	20.42	2.45	22.87	193.64	2



**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	22.51	2.45	24.96	313.33	2
18900	1880.0	22.22	2.45	24.67	293.09	2
19125	1902.5	22.12	2.45	24.57	286.42	2

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	21.75	2.45	24.2	263.03	2
18900	1880.0	21.56	2.45	24.01	251.77	2
19125	1902.5	21.44	2.45	23.89	244.91	2

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	20.64	2.45	23.09	203.7	2
18900	1880.0	20.47	2.45	22.92	195.88	2
19125	1902.5	20.43	2.45	22.88	194.09	2



**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	22.52	2.45	24.97	314.05	2
18900	1880	22.26	2.45	24.71	295.8	2
19100	1900	22.2	2.45	24.65	291.74	2

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	21.78	2.45	24.23	264.85	2
18900	1880	21.57	2.45	24.02	252.35	2
19100	1900	21.5	2.45	23.95	248.31	2

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	20.7	2.45	23.15	206.54	2
18900	1880	20.5	2.45	22.95	197.24	2
19100	1900	20.47	2.45	22.92	195.88	2



**LTE BAND 25**

**CHANNEL BANDWIDTH: 1.4MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	22.56	3.09	25.65	367.28	2
26365	1882.5	22.42	3.09	25.51	355.63	2
26683	1914.3	22.39	3.09	25.48	353.18	2

**CHANNEL BANDWIDTH: 1.4MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	21.85	3.09	24.94	311.89	2
26365	1882.5	21.73	3.09	24.82	303.39	2
26683	1914.3	21.63	3.09	24.72	296.48	2

**CHANNEL BANDWIDTH: 1.4MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	20.65	3.09	23.74	236.59	2
26365	1882.5	20.58	3.09	23.67	232.81	2
26683	1914.3	20.53	3.09	23.62	230.14	2



**CHANNEL BANDWIDTH: 3MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	22.53	3.09	25.62	364.75	2
26365	1882.5	22.42	3.09	25.51	355.63	2
26675	1913.5	22.27	3.09	25.36	343.56	2

**CHANNEL BANDWIDTH: 3MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	21.82	3.09	24.91	309.74	2
26365	1882.5	21.79	3.09	24.88	307.61	2
26675	1913.5	21.66	3.09	24.75	298.54	2

**CHANNEL BANDWIDTH: 3MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1851.5	20.71	3.09	23.8	239.88	2
26365	1882.5	20.61	3.09	23.7	234.42	2
26683	1913.5	20.47	3.09	23.56	226.99	2





**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	22.54	3.09	25.63	365.59	2
26365	1882.5	22.37	3.09	25.46	351.56	2
26665	1912.5	22.28	3.09	25.37	344.35	2

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	21.83	3.09	24.92	310.46	2
26365	1882.5	21.75	3.09	24.84	304.79	2
26665	1912.5	21.66	3.09	24.75	298.54	2

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	20.65	3.09	23.74	236.59	2
26365	1882.5	20.58	3.09	23.67	232.81	2
26665	1912.5	20.53	3.09	23.62	230.14	2



**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	22.51	3.09	25.6	363.08	2
26365	1882.5	22.4	3.09	25.49	354	2
26640	1910	22.28	3.09	25.37	344.35	2

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	21.83	3.09	24.92	310.46	2
26365	1882.5	21.72	3.09	24.81	302.69	2
26640	1910	21.62	3.09	24.71	295.8	2

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	20.64	3.09	23.73	236.05	2
26365	1882.5	20.59	3.09	23.68	233.35	2
26640	1910	20.5	3.09	23.59	228.56	2



**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	22.58	3.09	25.67	368.98	2
26365	1882.5	22.4	3.09	25.49	354	2
26615	1907.5	22.25	3.09	25.34	341.98	2

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	21.87	3.09	24.96	313.33	2
26365	1882.5	21.79	3.09	24.88	307.61	2
26615	1907.5	21.62	3.09	24.71	295.8	2

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	20.66	3.09	23.75	237.14	2
26365	1882.5	20.6	3.09	23.69	233.88	2
26615	1907.5	20.51	3.09	23.6	229.09	2



**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	22.59	3.09	25.68	369.83	2
26365	1882.5	22.44	3.09	25.53	357.27	2
26590	1905	22.33	3.09	25.42	348.34	2

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	21.9	3.09	24.99	315.5	2
26365	1882.5	21.8	3.09	24.89	308.32	2
26590	1905	21.68	3.09	24.77	299.92	2

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	20.72	3.09	23.81	240.44	2
26365	1882.5	20.63	3.09	23.72	235.5	2
26590	1905	20.55	3.09	23.64	231.21	2



### 3.2 FREQUENCY STABILITY MEASUREMENT

#### 3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

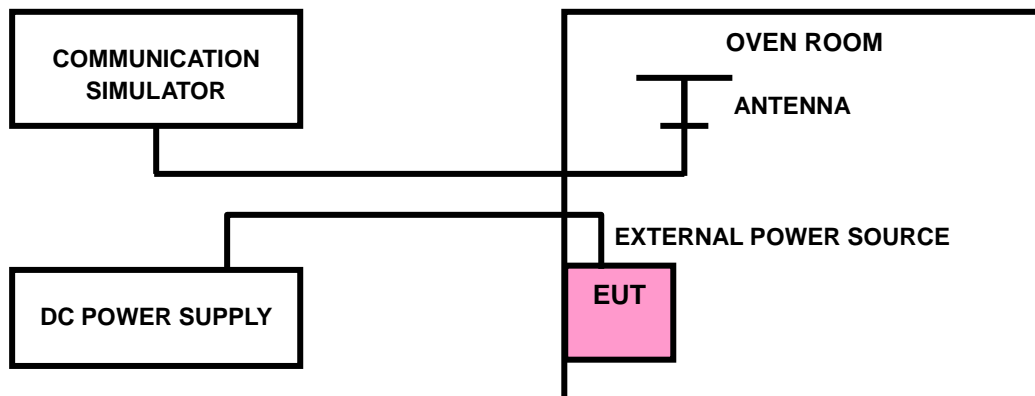
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### 3.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}\text{C}$  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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**VERITAS**

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### 3.2.4 TEST RESULTS

Please Refer to Appendix B Of this test report.

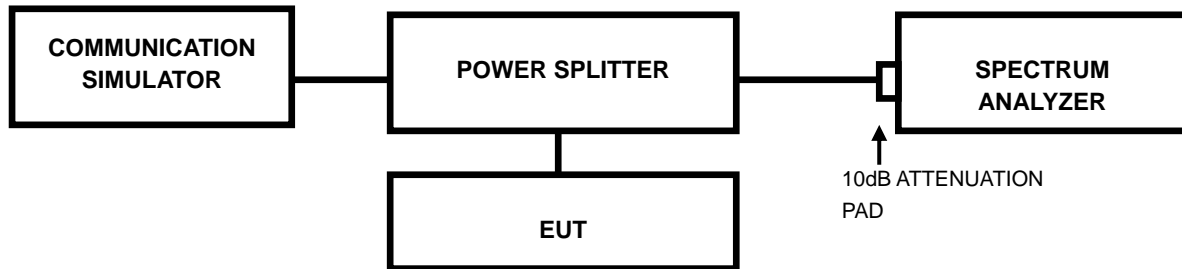


### 3.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 3.3.1 TEST PROCEDURES

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

#### 3.3.2 TEST SETUP





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### 3.3.3 TEST RESULTS

Please Refer to Appendix B Of this test report.



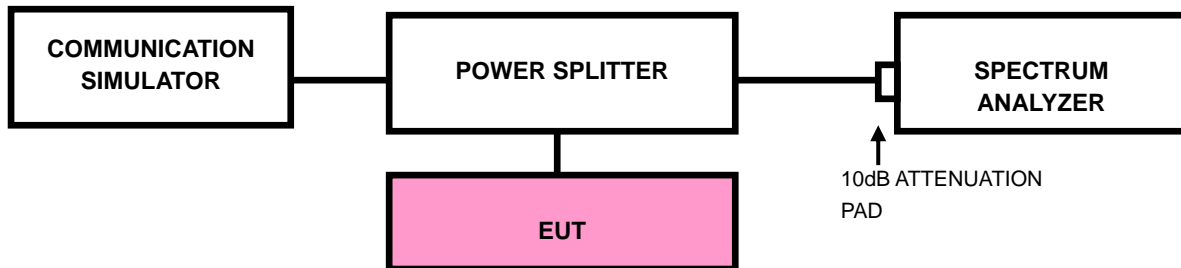


### 3.4 BAND EDGE MEASUREMENTC

#### 3.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

#### 3.4.2 TEST SETUP





### 3.4.3 TEST PROCEDURES

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 10kHz and VBW of the spectrum is 30kHz (LTE bandwidth for (1.4M/3M/5M/10M/15M/20M)1RB/0RB&1RB/MAXRB).
- c. The center frequency of spectrum is the band edge frequency and span is 10MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (WCDMA).
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is  $\geq 1\% \cdot \text{EBW}$  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.

### 3.4.4. TEST RESULTS

Please Refer to Appendix B Of this test report.



### 3.5 CONDUCTED SPURIOUS EMISSIONS

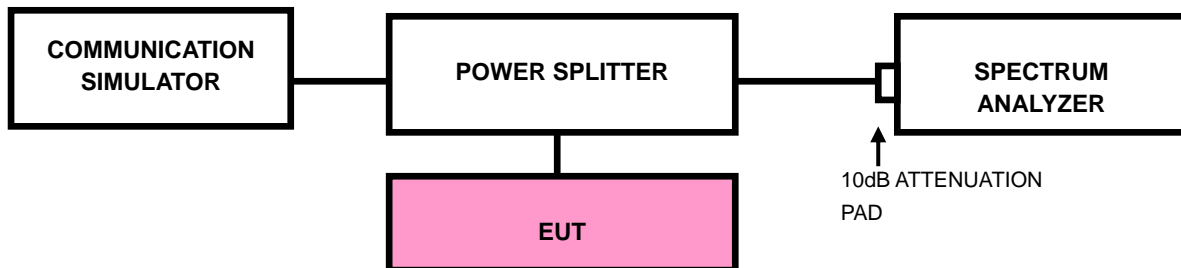
#### 3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

#### 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 30MHz up to a frequency including its 10<sup>th</sup> harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

#### 3.5.3 TEST SETUP





**BUREAU  
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**Test Report No.: W7L-P20210616-3RF02**

### 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 B Of this test report.



### 3.6 RADIATED EMISSION MEASUREMENT

#### 3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

#### 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.  $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ .

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

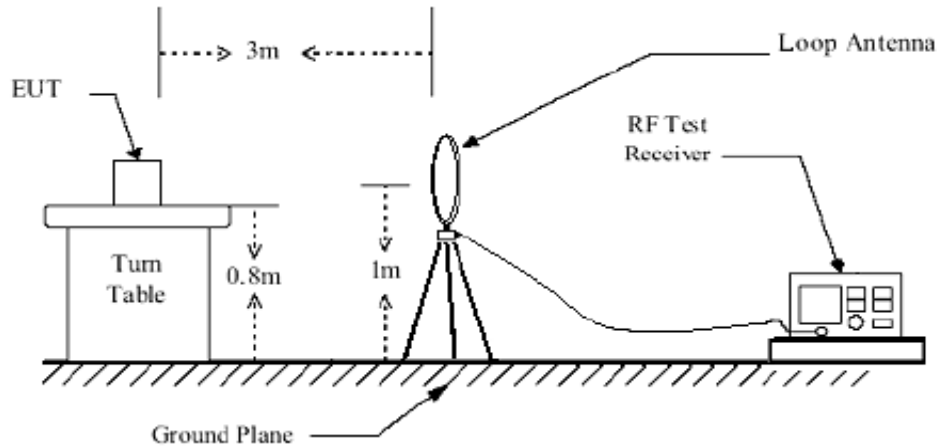
#### 3.6.3 DEVIATION FROM TEST STANDARD

No deviation

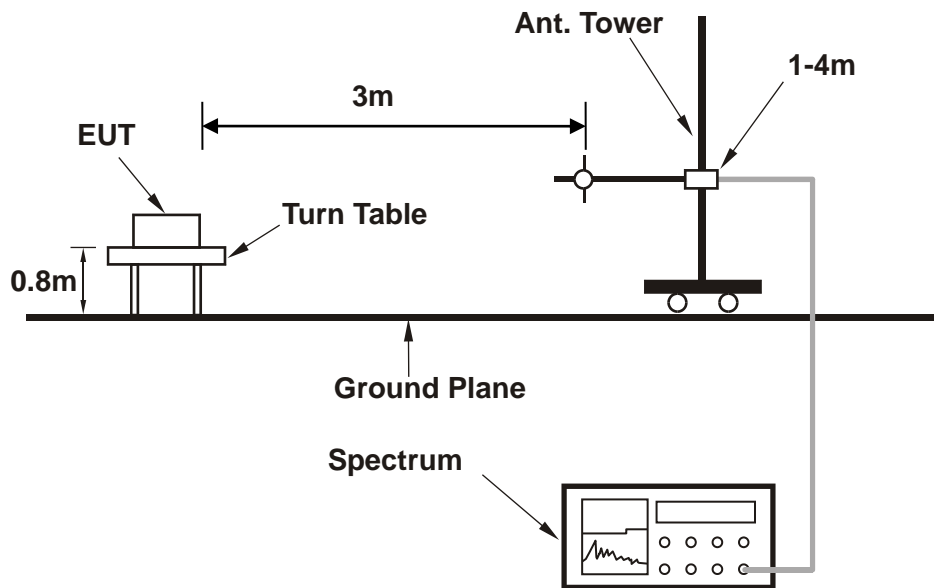


### 3.6.4 TEST SETUP

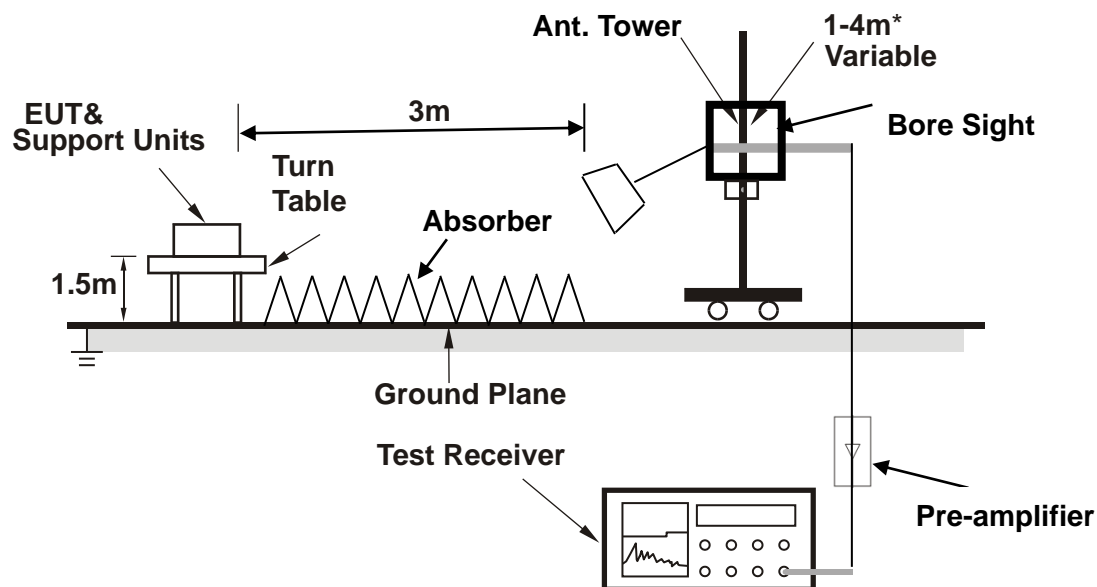
#### < Frequency Range below 30MHz >



#### < Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



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

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



### 3.6.5 TEST RESULTS

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

#### BELOW 1GHz WORST-CASE DATA

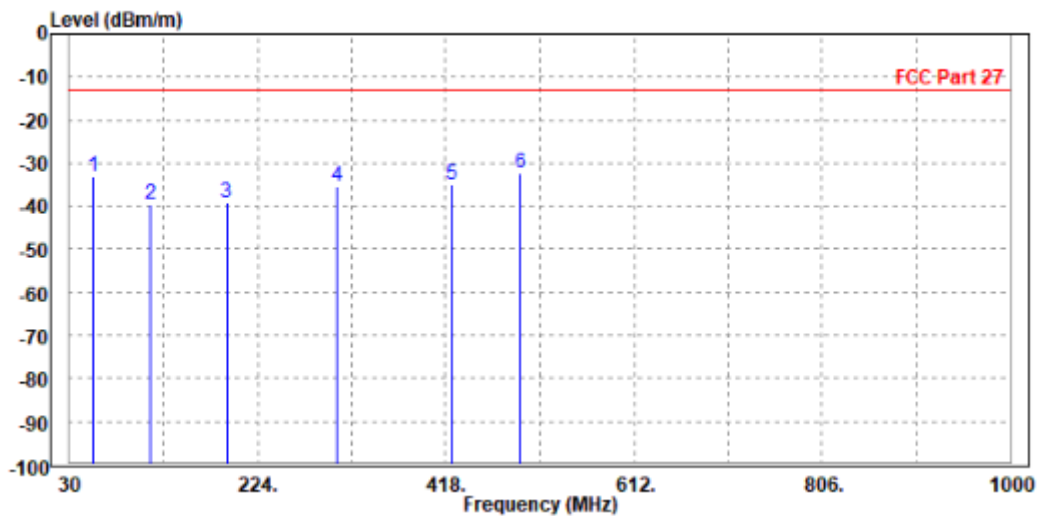
30 MHz – 1GHz data:

LTE Band 25

CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 26675	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	55.220	-32.94	-41.02	-13.00	-19.94	8.08	Peak	Horizontal
2	113.420	-39.72	-47.72	-13.00	-26.72	8.00	Peak	Horizontal
3	191.990	-39.12	-49.80	-13.00	-26.12	10.68	Peak	Horizontal
4	306.450	-35.37	-49.56	-13.00	-22.37	14.19	Peak	Horizontal
5	423.820	-34.90	-52.23	-13.00	-21.90	17.33	Peak	Horizontal
6 PP	494.630	-32.25	-50.85	-13.00	-19.25	18.60	Peak	Horizontal





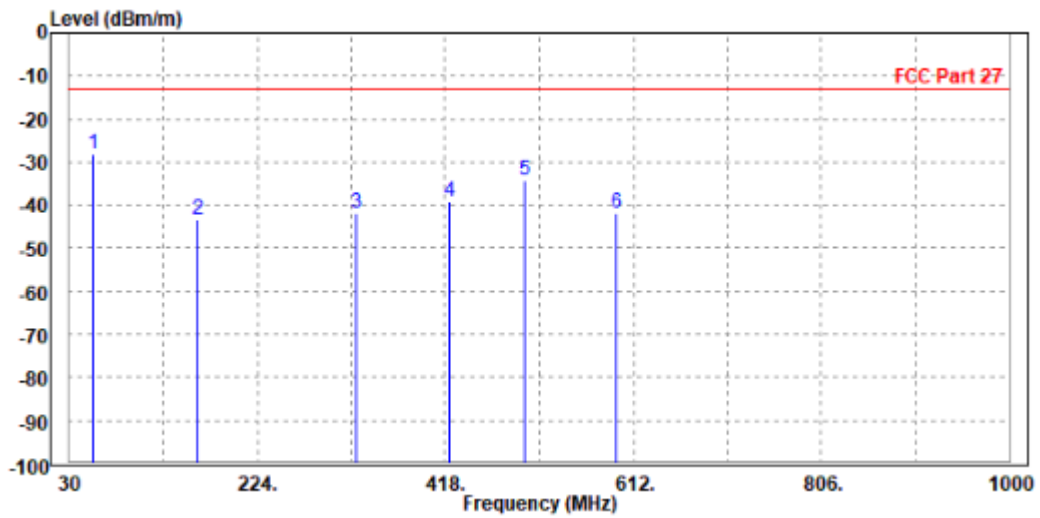


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VERITAS**

**Test Report No.: W7L-P20210616-3RF02**

<b>MODE</b>	TX channel 26675	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	55.220	-28.11	-36.54	-13.00	-15.11	8.43	Peak	Vertical
2	161.920	-43.48	-54.86	-13.00	-30.48	11.38	Peak	Vertical
3	326.820	-41.84	-57.43	-13.00	-28.84	15.59	Peak	Vertical
4	422.850	-39.03	-56.66	-13.00	-26.03	17.63	Peak	Vertical
5	500.450	-34.25	-53.36	-13.00	-21.25	19.11	Peak	Vertical
6	594.540	-41.77	-62.57	-13.00	-28.77	20.80	Peak	Vertical





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**Test Report No.: W7L-P20210616-3RF02**

**ABOVE 1GHz DATA**

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

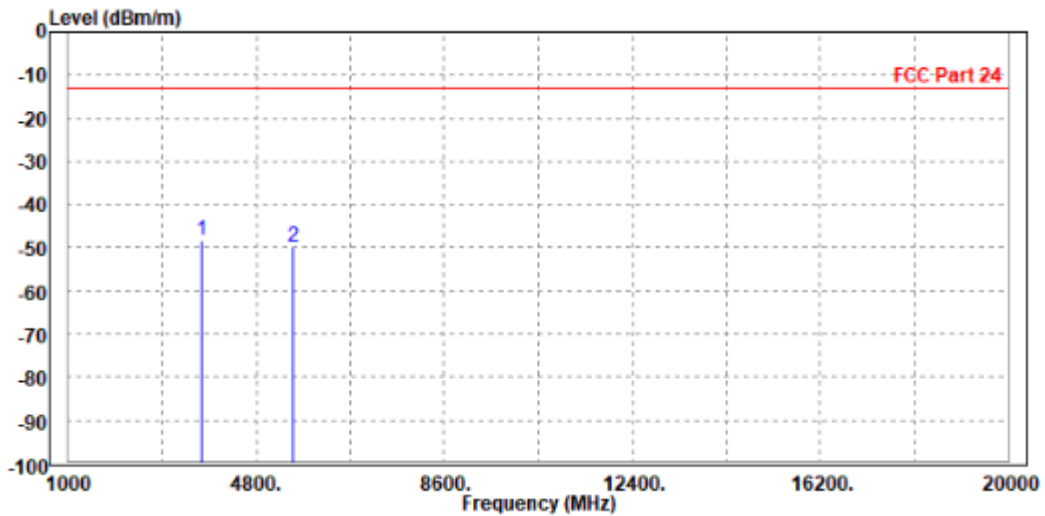
**WORST-CASE DATA**

**GSM 1900:**

**CH 512**

<b>MODE</b>	TX channel 512	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3698.000	-48.17	-56.95	-13.00	-35.17	8.78	Peak	Horizontal
2	5550.600	-49.73	-59.92	-13.00	-36.73	10.19	Peak	Horizontal



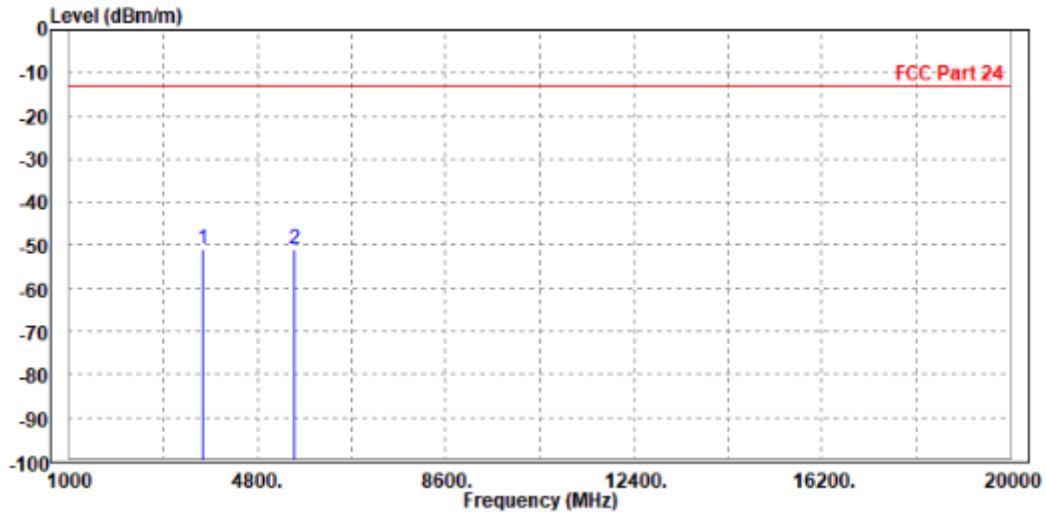


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VERITAS**

Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 512	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3698.000	-51.09	-60.34	-13.00	-38.09	9.25	Peak	Vertical
2 PP	5550.600	-51.08	-60.98	-13.00	-38.08	9.90	Peak	Vertical





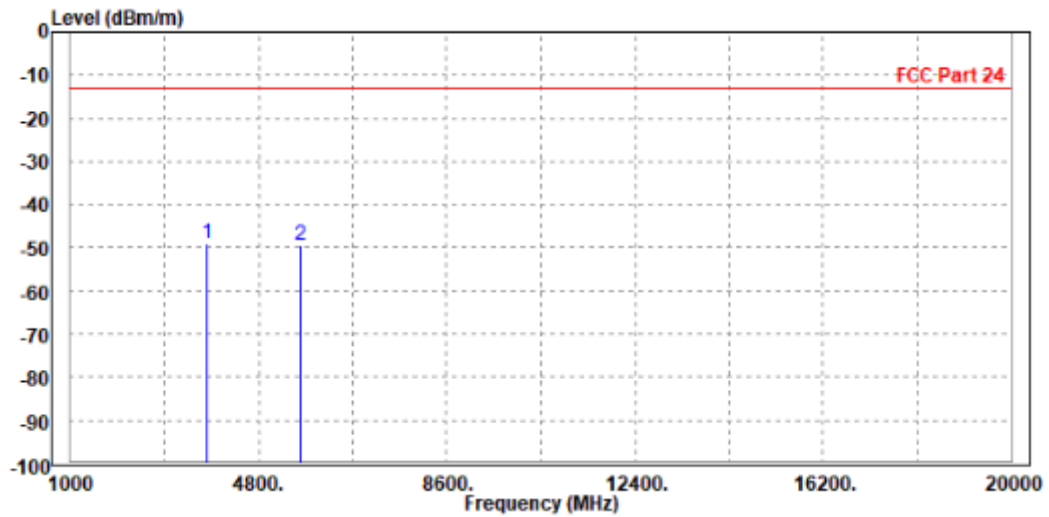
**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

**CH 661**

<b>MODE</b>	TX channel 661	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-48.90	-57.75	-13.00	-35.90	8.85	Peak	Horizontal
2	5640.000	-49.40	-59.88	-13.00	-36.40	10.48	Peak	Horizontal



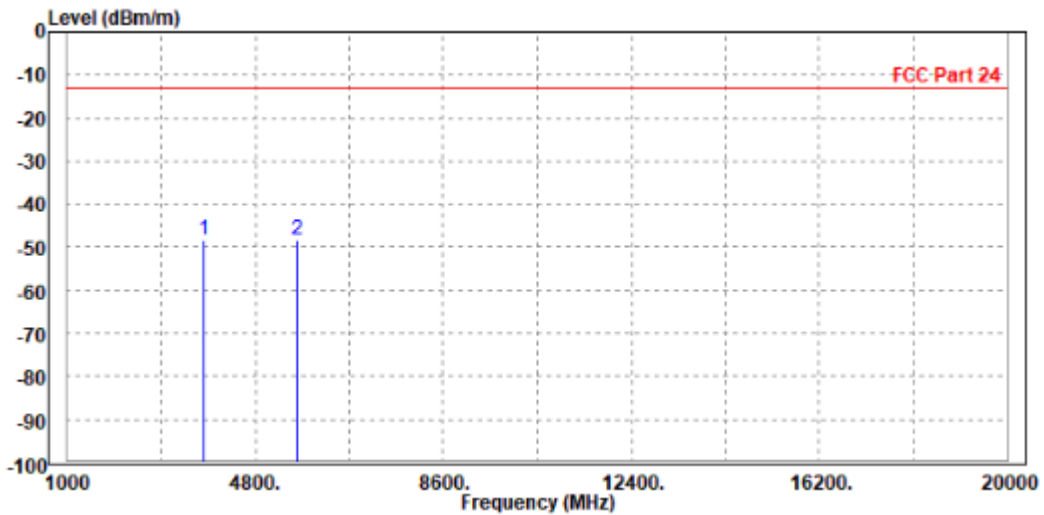


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VERITAS**

**Test Report No.: W7L-P20210616-3RF02**

<b>MODE</b>	TX channel 661	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-48.21	-57.48	-13.00	-35.21	9.27	Peak	Vertical
2 PP	5640.000	-48.12	-58.37	-13.00	-35.12	10.25	Peak	Vertical





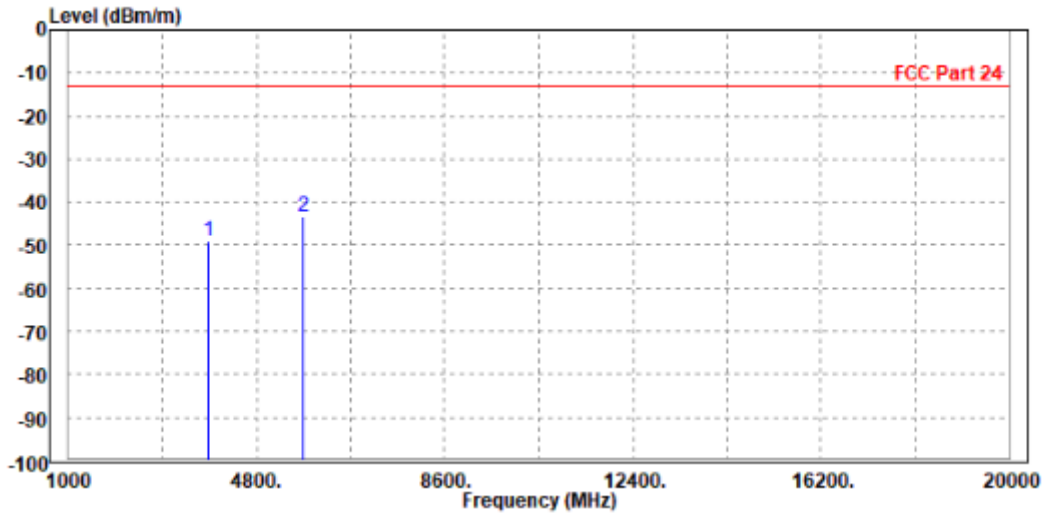
**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

**CH 810**

<b>MODE</b>	TX channel 810	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-49.02	-57.93	-13.00	-36.02	8.91	Peak	Horizontal
2 PP	5729.400	-43.32	-54.10	-13.00	-30.32	10.78	Peak	Horizontal



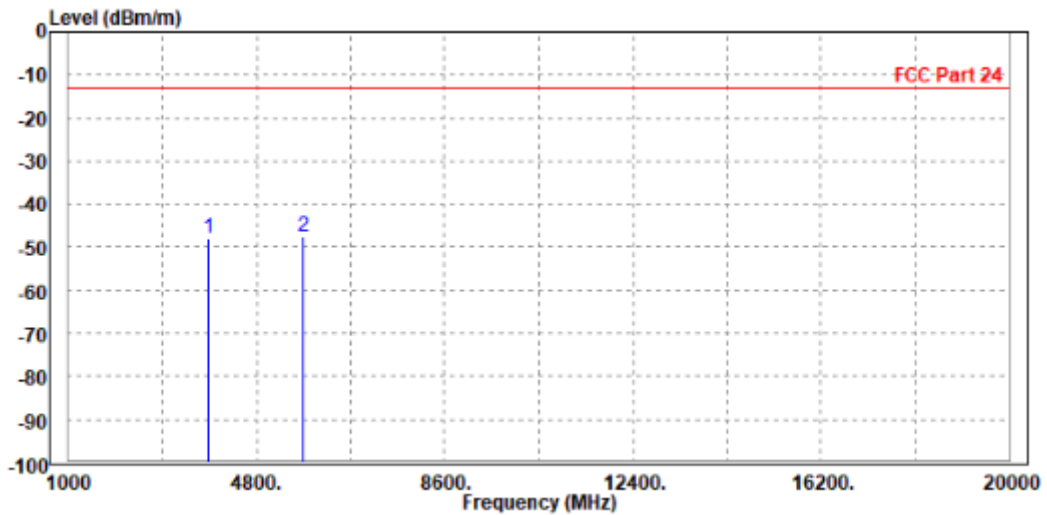


**BUREAU  
VERITAS**

**Test Report No.: W7L-P20210616-3RF02**

<b>MODE</b>	TX channel 810	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3819.600	-47.99	-57.28	-13.00	-34.99	9.29	Peak	Vertical
2 PP	5729.400	-47.56	-58.15	-13.00	-34.56	10.59	Peak	Vertical





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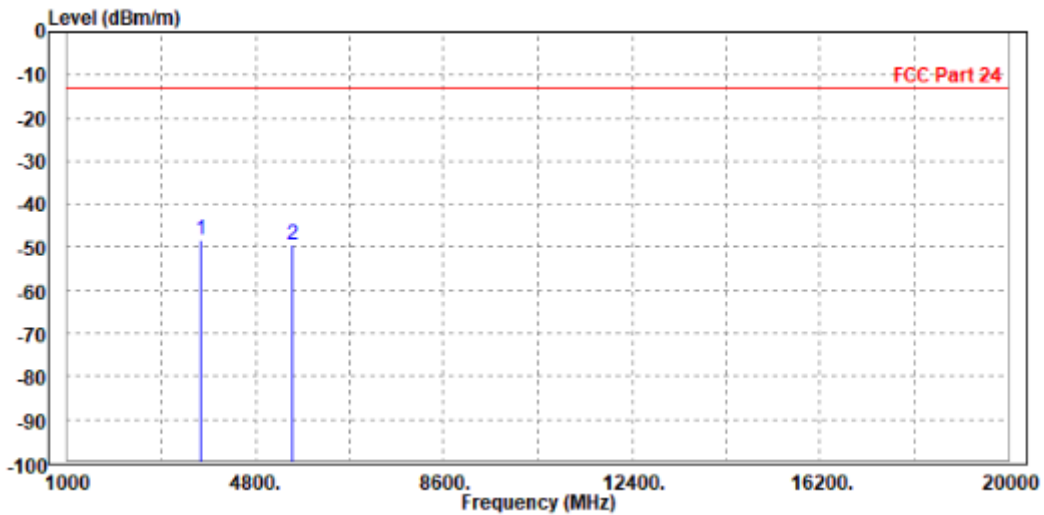
Test Report No.: W7L-P20210616-3RF02

EDGE 1900:

CH 512

MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3698.000	-48.36	-57.14	-13.00	-35.36	8.78	Peak	Horizontal
2	5550.600	-49.54	-59.73	-13.00	-36.54	10.19	Peak	Horizontal





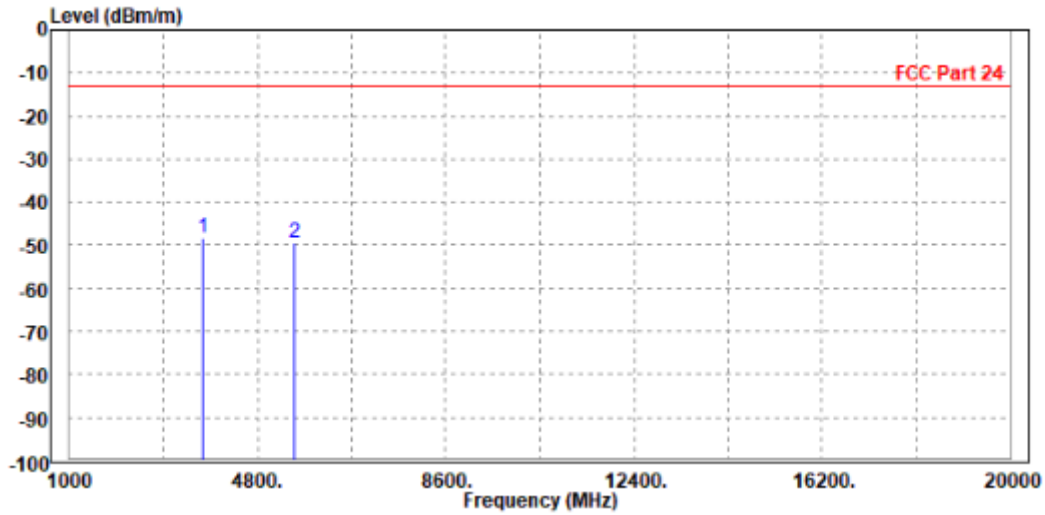


**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 512	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3698.000	-48.45	-57.70	-13.00	-35.45	9.25	Peak	Vertical
2	5550.600	-49.59	-59.49	-13.00	-36.59	9.90	Peak	Vertical





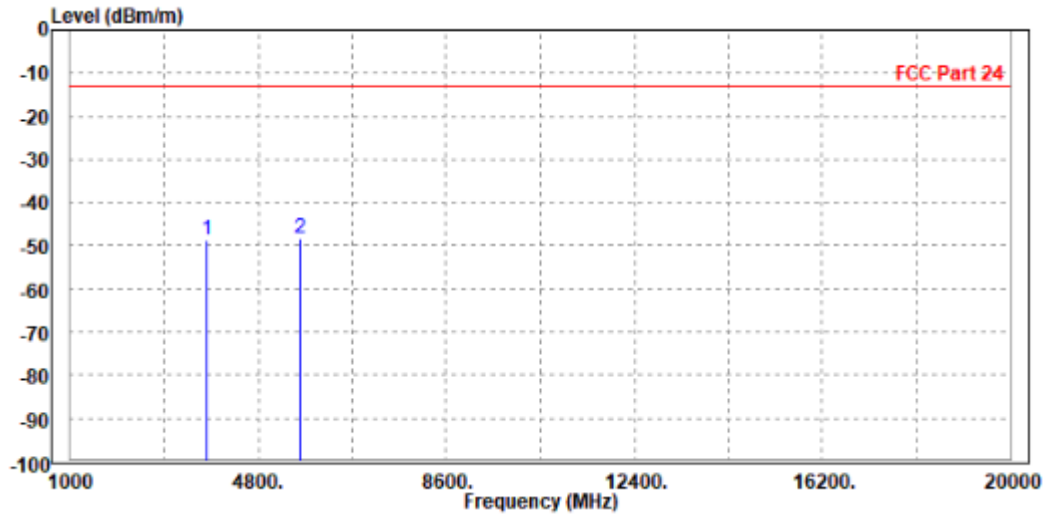
**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

**CH 661**

<b>MODE</b>	TX channel 661	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-48.80	-57.65	-13.00	-35.80	8.85	Peak	Horizontal
2 PP	5640.000	-48.43	-58.91	-13.00	-35.43	10.48	Peak	Horizontal



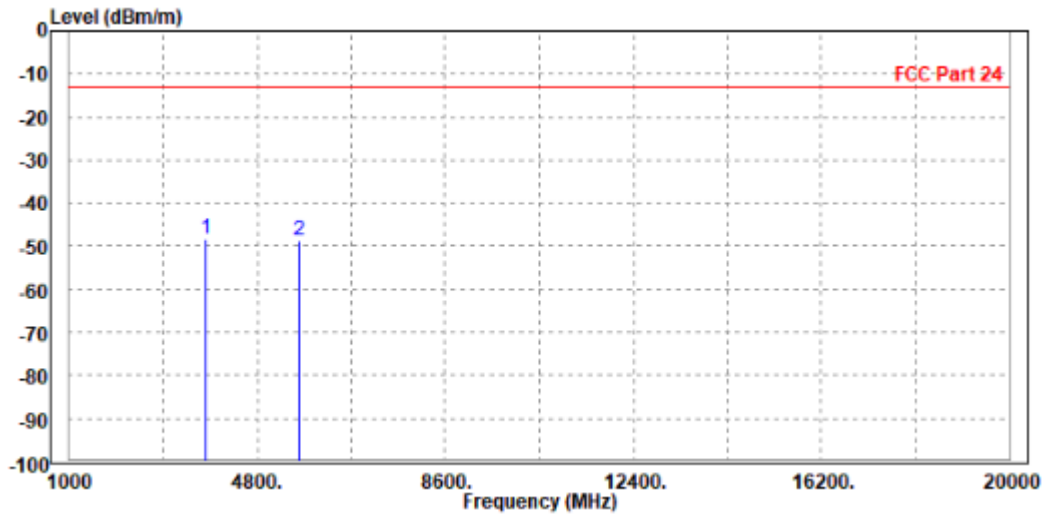


**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 661	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-48.33	-57.60	-13.00	-35.33	9.27	Peak	Vertical
2	5640.000	-48.65	-58.90	-13.00	-35.65	10.25	Peak	Vertical





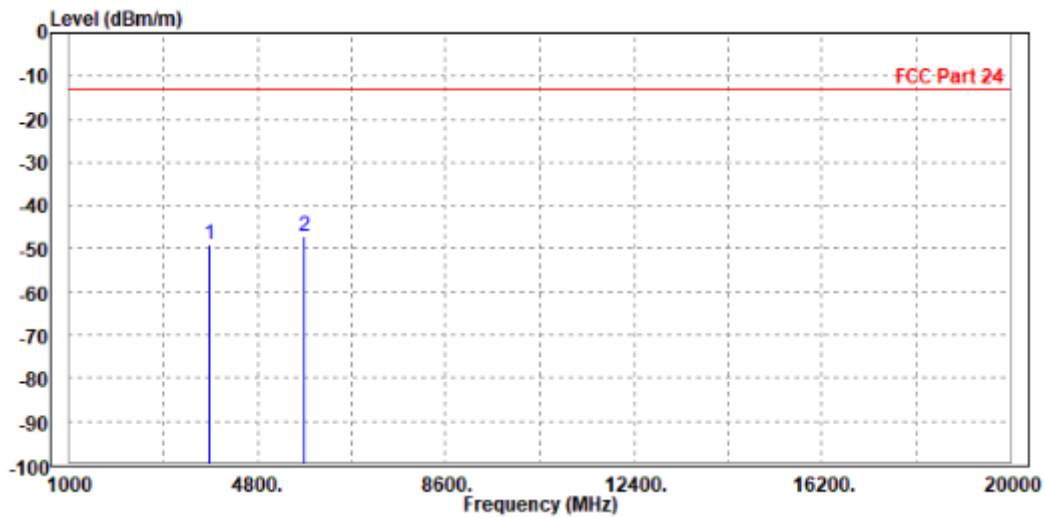
**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

**CH 810**

<b>MODE</b>	TX channel 810	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-49.02	-57.93	-13.00	-36.02	8.91	Peak	Horizontal
2 PP	5729.400	-47.14	-57.92	-13.00	-34.14	10.78	Peak	Horizontal



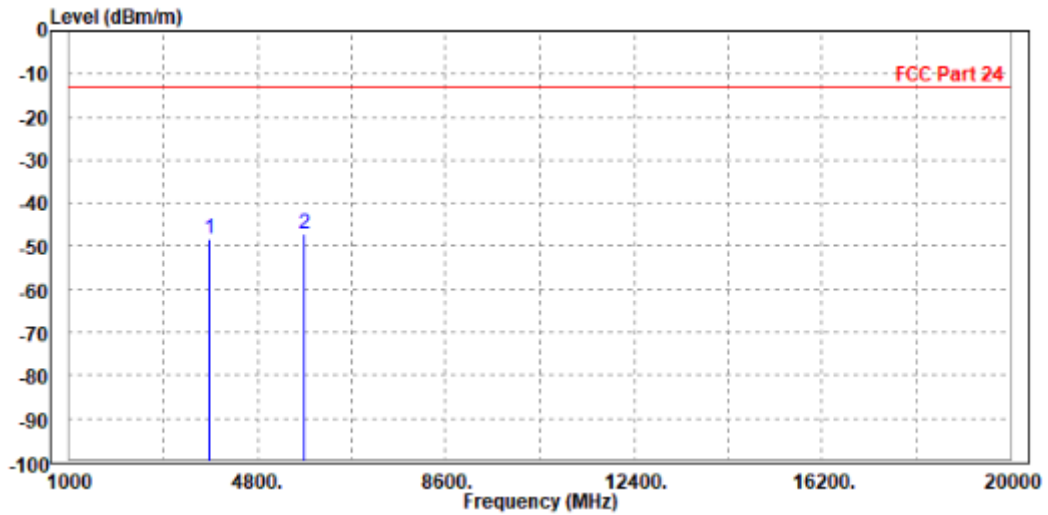


**BUREAU  
VERITAS**

**Test Report No.: W7L-P20210616-3RF02**

<b>MODE</b>	TX channel 810	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-48.44	-57.73	-13.00	-35.44	9.29	Peak	Vertical
2 PP	5729.400	-47.07	-57.66	-13.00	-34.07	10.59	Peak	Vertical





**BUREAU  
VERITAS**

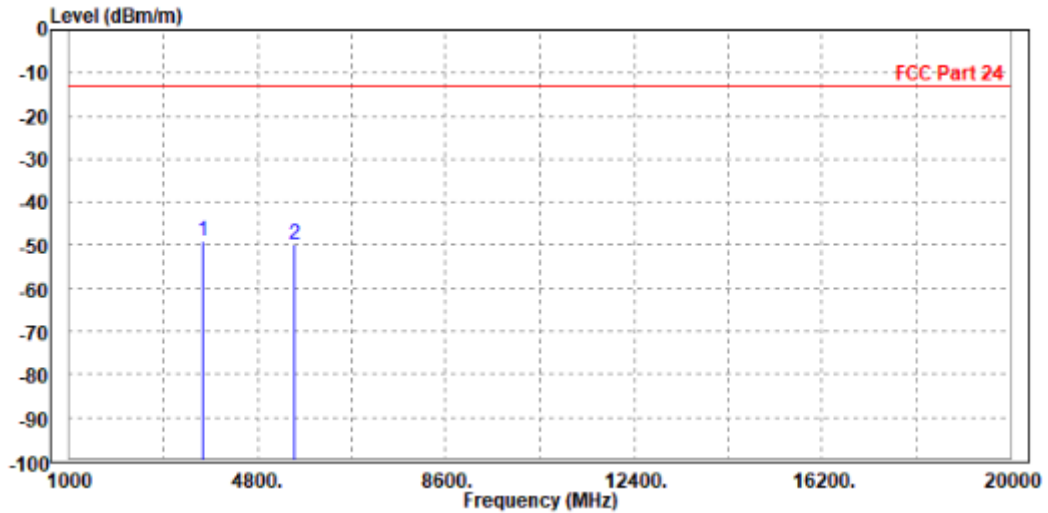
Test Report No.: W7L-P20210616-3RF02

**WCDMA Band II**

**CH 9262**

<b>MODE</b>	TX channel 9262	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3698.000	-49.23	-58.01	-13.00	-36.23	8.78	Peak	Horizontal
2	5557.200	-49.77	-59.98	-13.00	-36.77	10.21	Peak	Horizontal



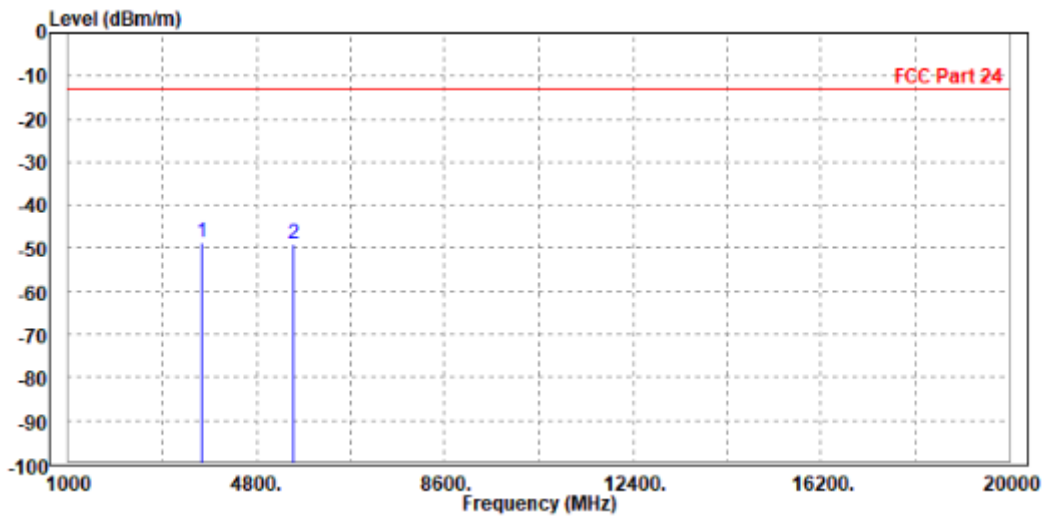


**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 9262	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3698.000	-48.55	-57.80	-13.00	-35.55	9.25	Peak	Vertical
2	5557.200	-49.17	-59.10	-13.00	-36.17	9.93	Peak	Vertical





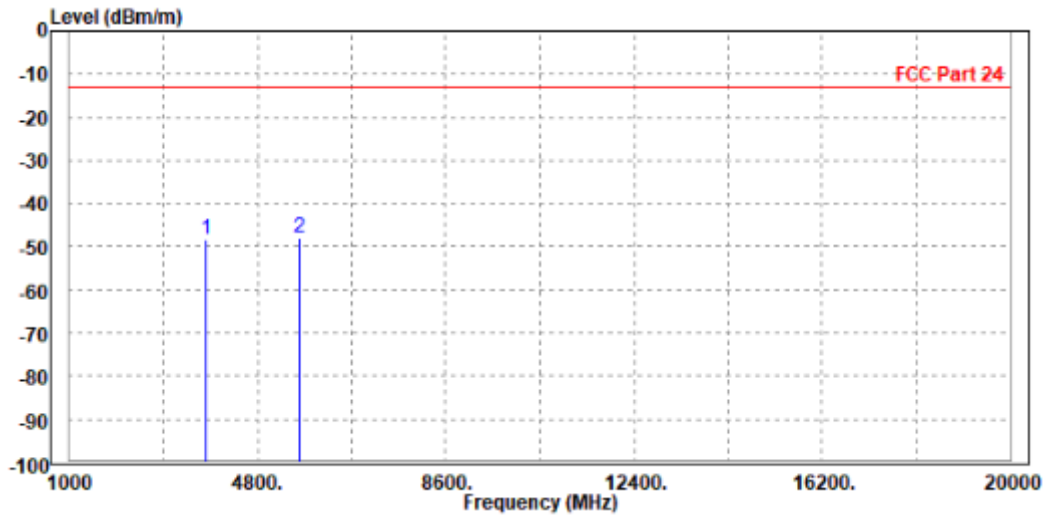
**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

**CH 9400**

<b>MODE</b>	TX channel 9400	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-48.36	-57.21	-13.00	-35.36	8.85	Peak	Horizontal
2 PP	5640.000	-48.06	-58.54	-13.00	-35.06	10.48	Peak	Horizontal





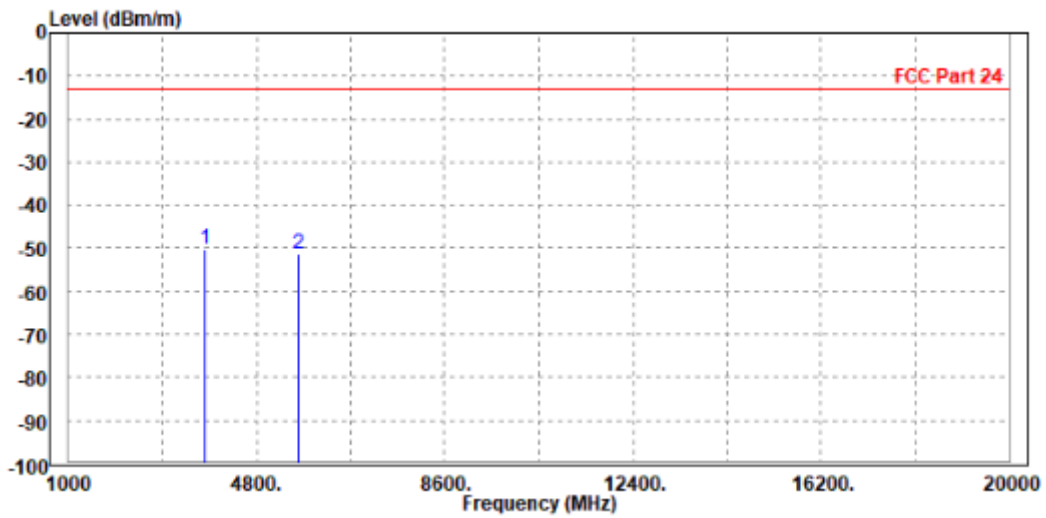


**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 9400	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-50.34	-59.61	-13.00	-37.34	9.27	Peak	Vertical
2	5640.000	-51.17	-61.42	-13.00	-38.17	10.25	Peak	Vertical





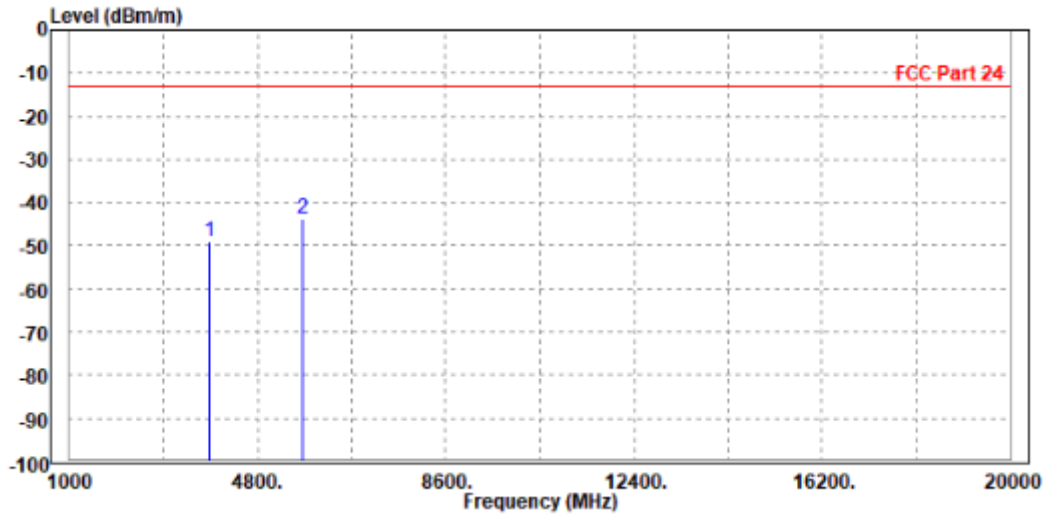
**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

**CH 9538**

<b>MODE</b>	TX channel 9538	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-48.97	-57.88	-13.00	-35.97	8.91	Peak	Horizontal
2 PP	5722.800	-43.65	-54.41	-13.00	-30.65	10.76	Peak	Horizontal



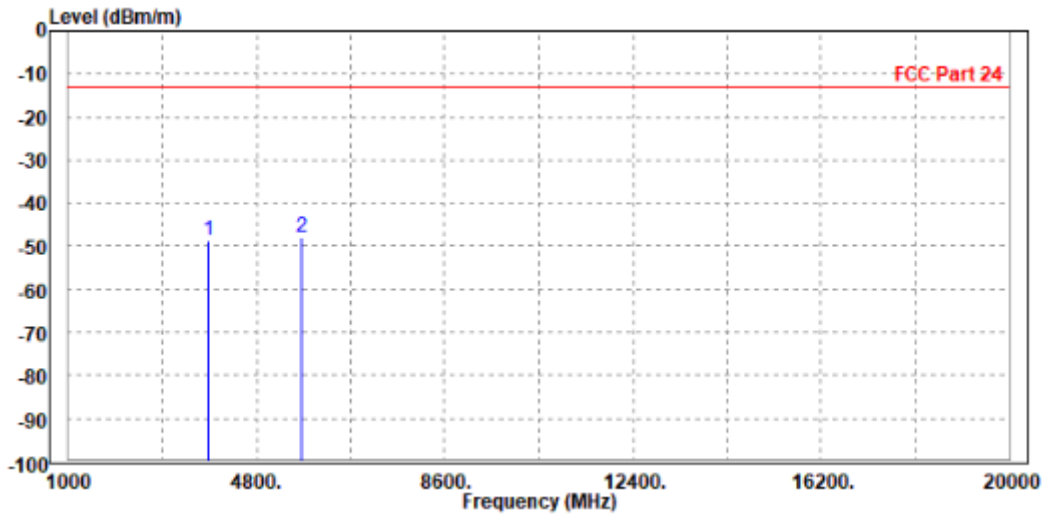


**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 9538	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-48.82	-58.11	-13.00	-35.82	9.29	Peak	Vertical
2 PP	5722.800	-47.90	-58.47	-13.00	-34.90	10.57	Peak	Vertical





Test Report No.: W7L-P20210616-3RF02

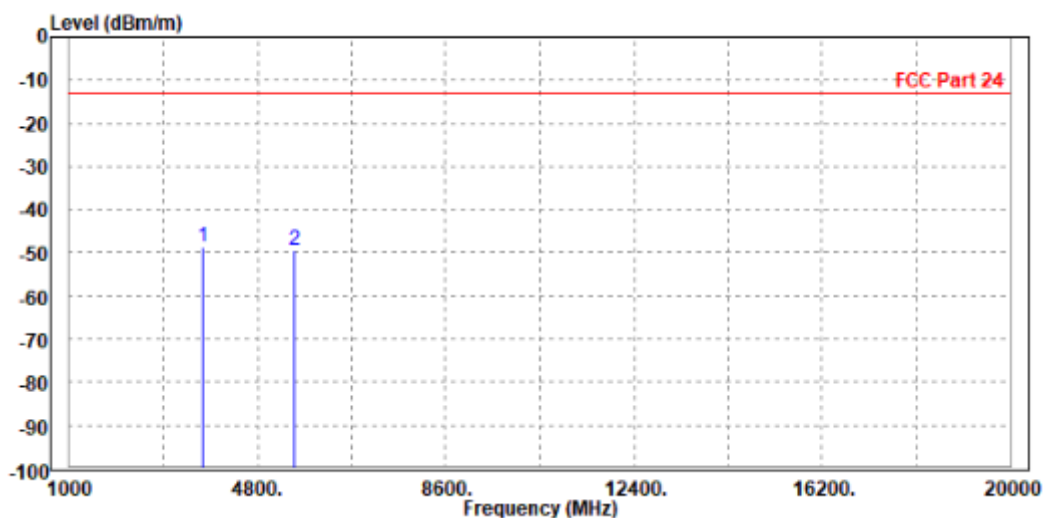
LTE Band 2

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH18607

<b>MODE</b>	TX channel 18607	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3698.000	-48.62	-57.40	-13.00	-35.62	8.78	Peak	Horizontal
2	5552.100	-49.33	-59.52	-13.00	-36.33	10.19	Peak	Horizontal



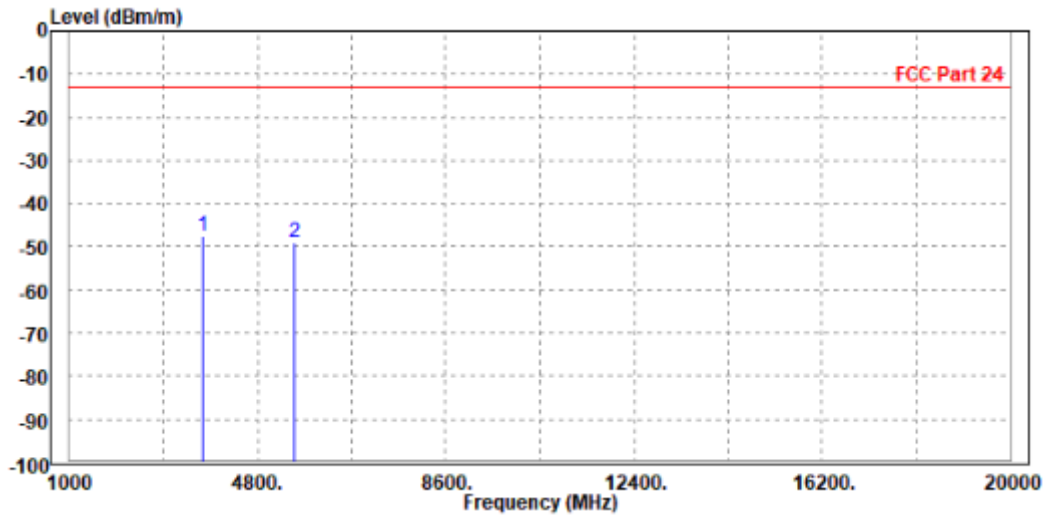


**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 18607	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3698.000	-47.52	-56.77	-13.00	-34.52	9.25	Peak	Vertical
2	5552.100	-49.16	-59.07	-13.00	-36.16	9.91	Peak	Vertical





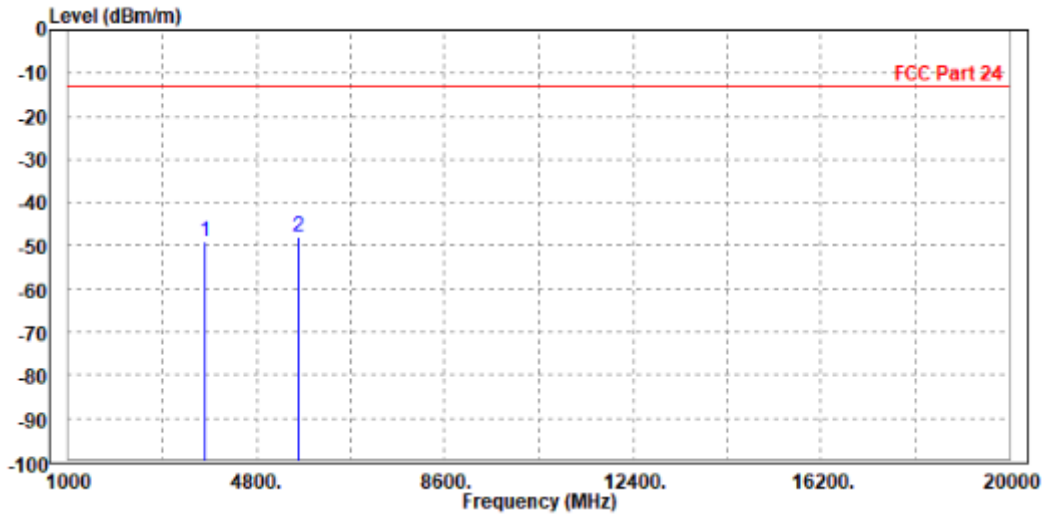
**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

CH18900

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.15	-58.00	-13.00	-36.15	8.85	Peak	Horizontal
2 PP	5640.000	-47.74	-58.22	-13.00	-34.74	10.48	Peak	Horizontal



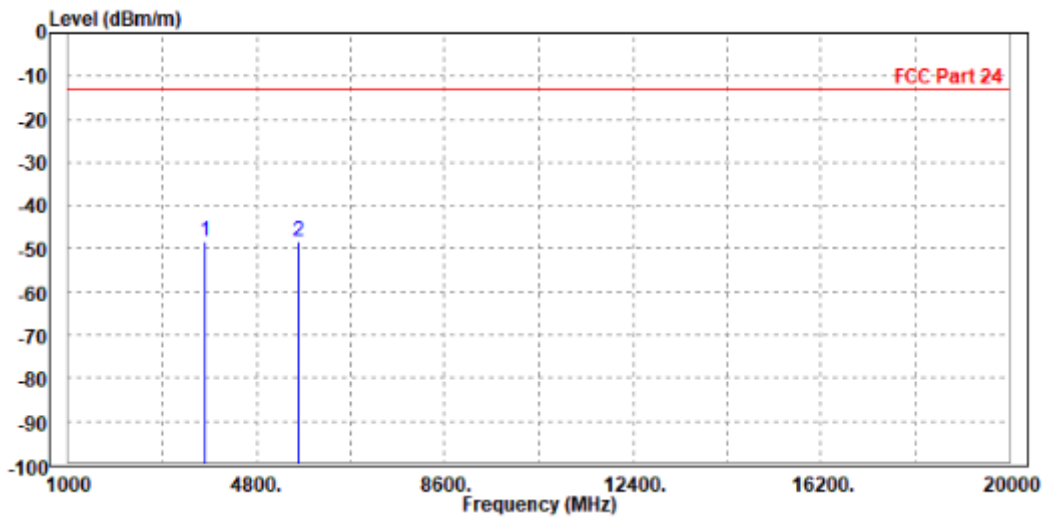


**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-48.45	-57.72	-13.00	-35.45	9.27	Peak	Vertical
2 PP	5640.000	-48.15	-58.40	-13.00	-35.15	10.25	Peak	Vertical





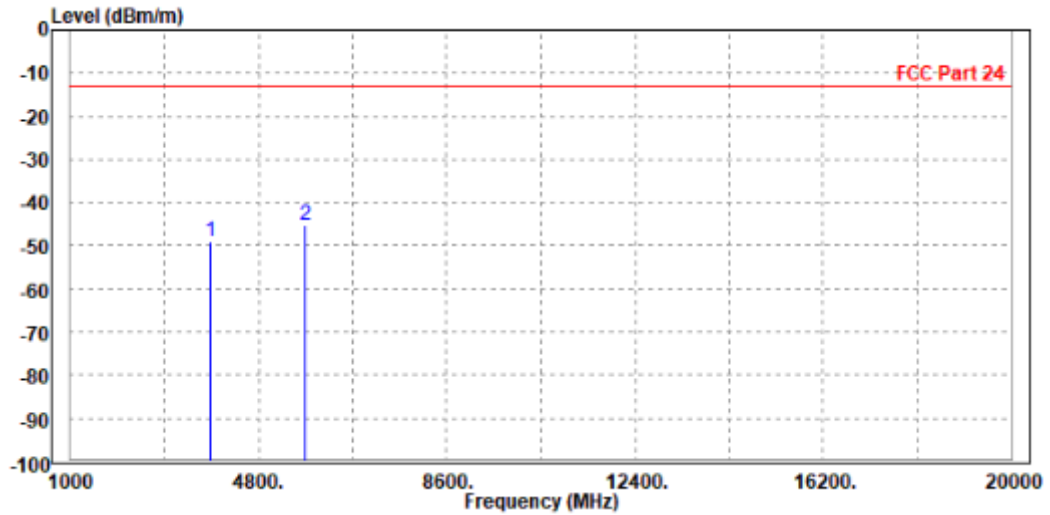
**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

CH19193

<b>MODE</b>	TX channel 19193	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-49.14	-58.05	-13.00	-36.14	8.91	Peak	Horizontal
2 PP	5727.900	-45.06	-55.83	-13.00	-32.06	10.77	Peak	Horizontal





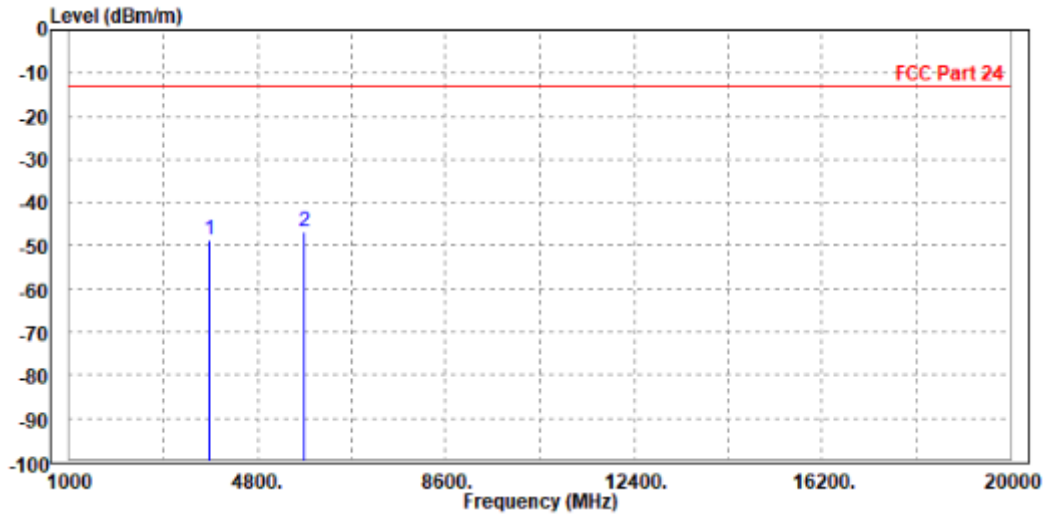


**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 19193	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-48.50	-57.79	-13.00	-35.50	9.29	Peak	Vertical
2 PP	5727.900	-46.69	-57.28	-13.00	-33.69	10.59	Peak	Vertical





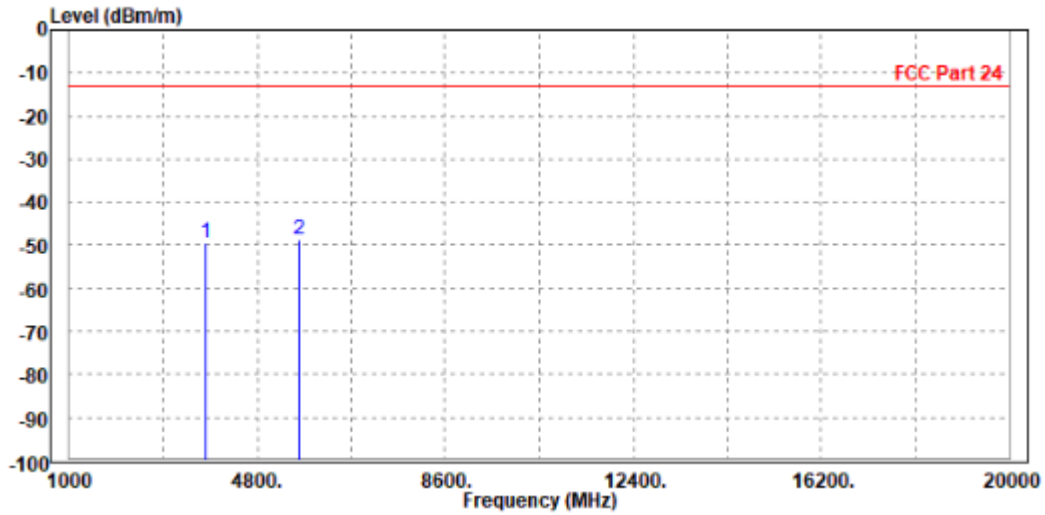
BUREAU VERITAS

Test Report No.: W7L-P20210616-3RF02

CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.29	-58.14	-13.00	-36.29	8.85	Peak	Horizontal
2 PP	5640.000	-48.82	-59.30	-13.00	-35.82	10.48	Peak	Horizontal



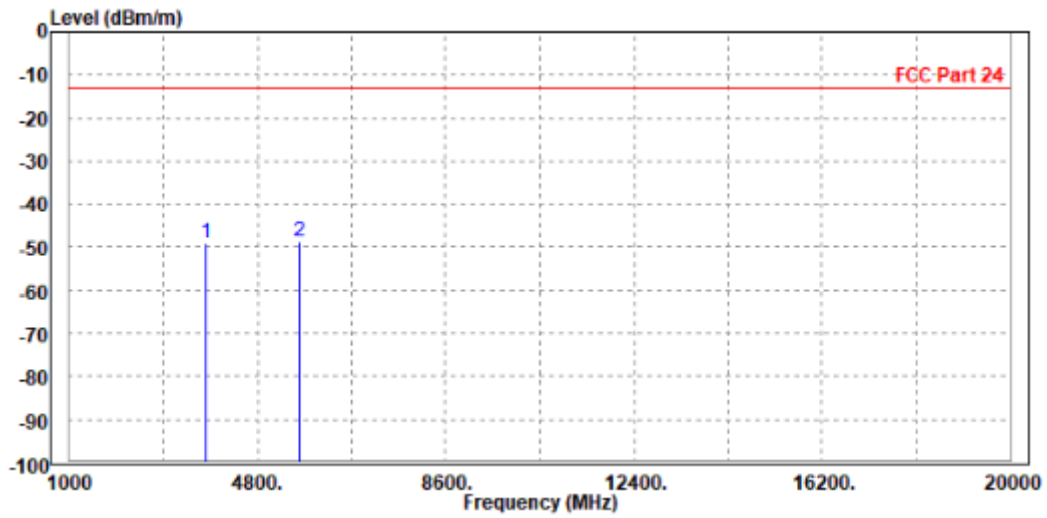


**BUREAU  
VERITAS**

**Test Report No.: W7L-P20210616-3RF02**

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.19	-58.46	-13.00	-36.19	9.27	Peak	Vertical
2 PP	5640.000	-48.73	-58.98	-13.00	-35.73	10.25	Peak	Vertical





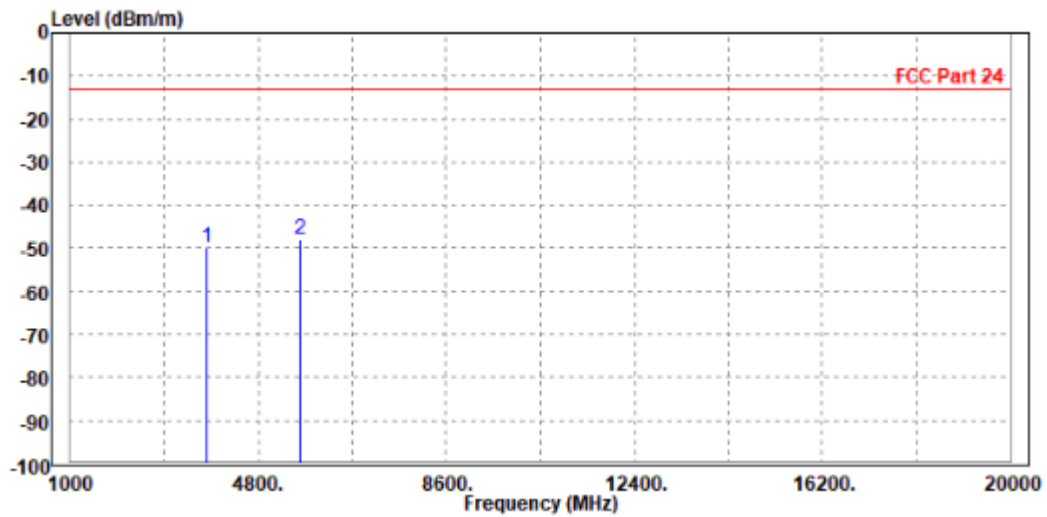
**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

**CHANNEL BANDWIDTH: 5MHz / QPSK**

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.66	-58.51	-13.00	-36.66	8.85	Peak	Horizontal
2 PP	5640.000	-47.85	-58.33	-13.00	-34.85	10.48	Peak	Horizontal



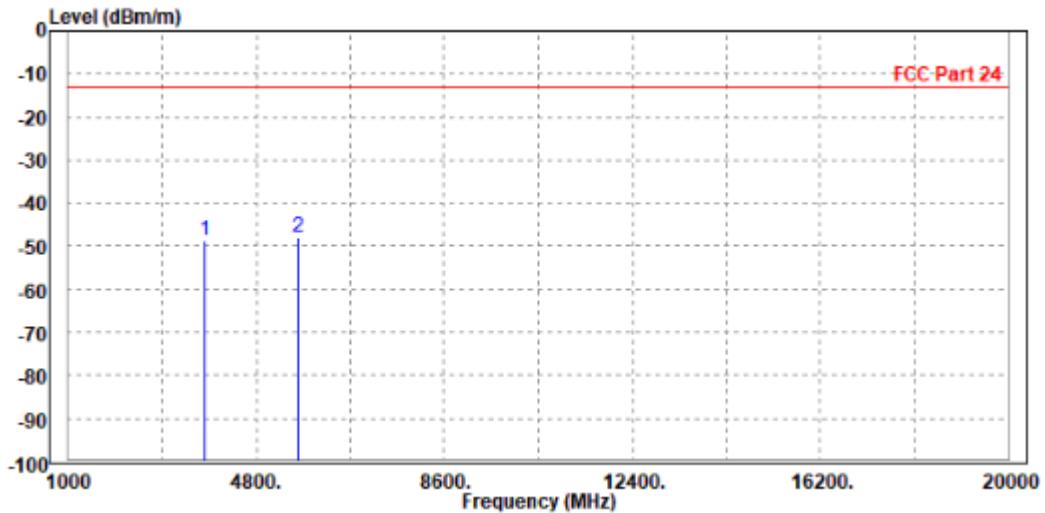


**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-48.85	-58.12	-13.00	-35.85	9.27	Peak	Vertical
2 PP	5640.000	-48.08	-58.33	-13.00	-35.08	10.25	Peak	Vertical





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VERITAS**

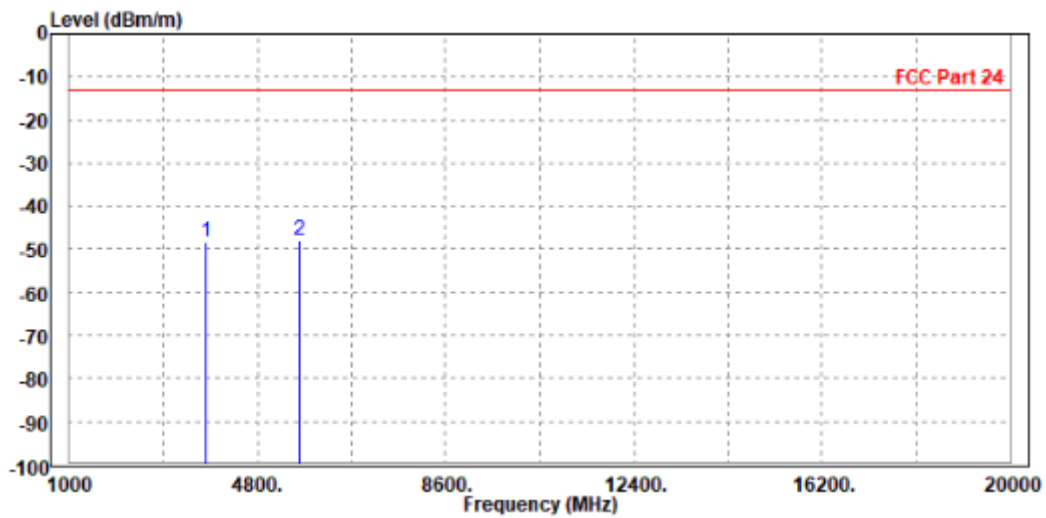
Test Report No.: W7L-P20210616-3RF02

**CHANNEL BANDWIDTH: 10MHz / QPSK**

**CH18900**

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-48.36	-57.21	-13.00	-35.36	8.85	Peak	Horizontal
2 PP	5640.000	-47.79	-58.27	-13.00	-34.79	10.48	Peak	Horizontal



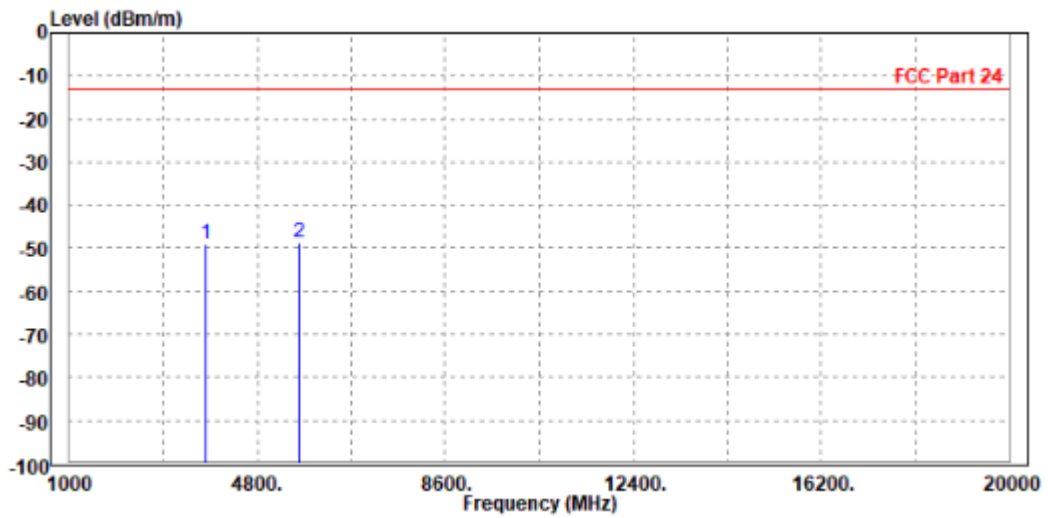


**BUREAU  
VERITAS**

**Test Report No.: W7L-P20210616-3RF02**

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-48.90	-58.17	-13.00	-35.90	9.27	Peak	Vertical
2	PP 5640.000	-48.63	-58.88	-13.00	-35.63	10.25	Peak	Vertical





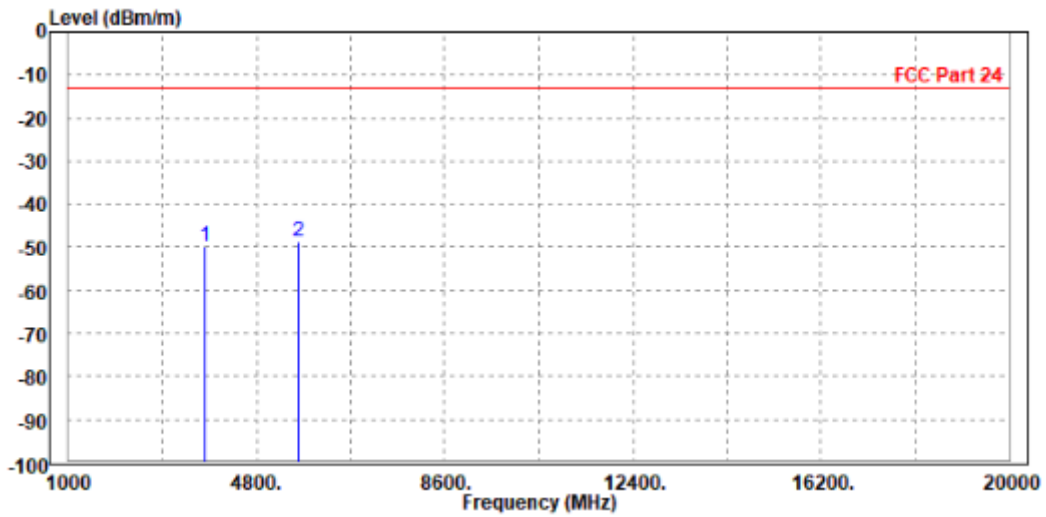
**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

CHANNEL BANDWIDTH: 15MHz / QPSK

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.69	-58.54	-13.00	-36.69	8.85	Peak	Horizontal
2 PP	5640.000	-48.65	-59.13	-13.00	-35.65	10.48	Peak	Horizontal





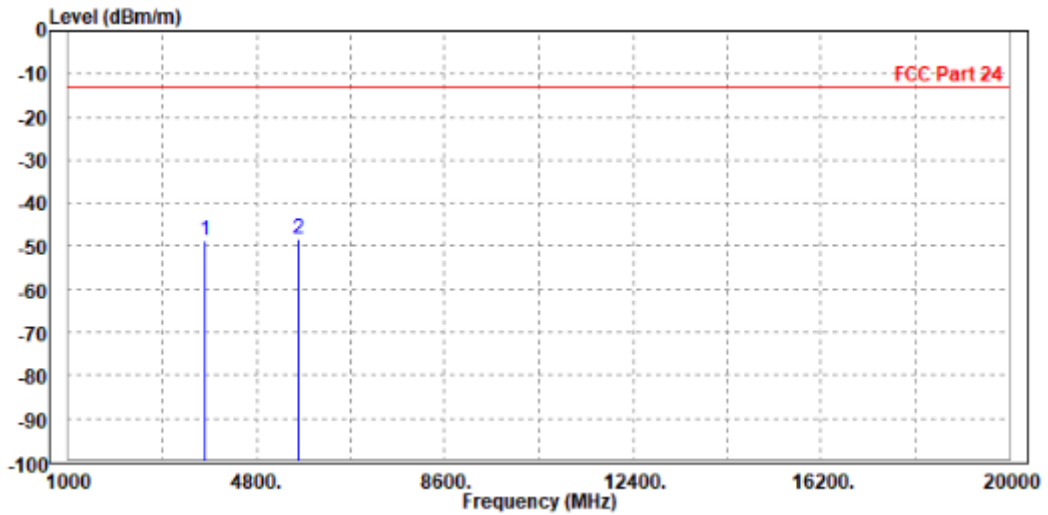


**BUREAU  
VERITAS**

**Test Report No.: W7L-P20210616-3RF02**

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-48.83	-58.10	-13.00	-35.83	9.27	Peak	Vertical
2 PP	5640.000	-48.31	-58.56	-13.00	-35.31	10.25	Peak	Vertical





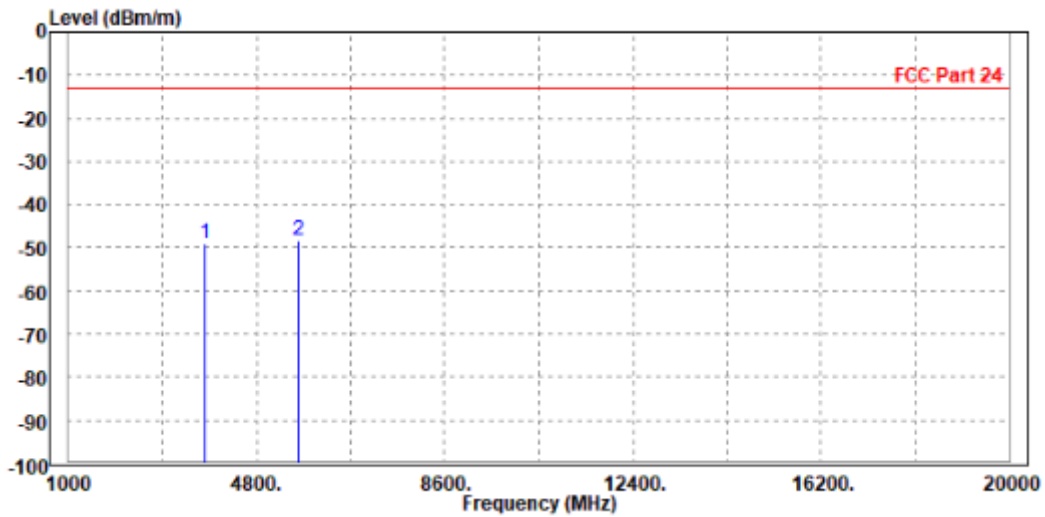
**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

**CHANNEL BANDWIDTH: 20MHz / QPSK**

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.19	-58.04	-13.00	-36.19	8.85	Peak	Horizontal
2 PP	5640.000	-48.37	-58.85	-13.00	-35.37	10.48	Peak	Horizontal



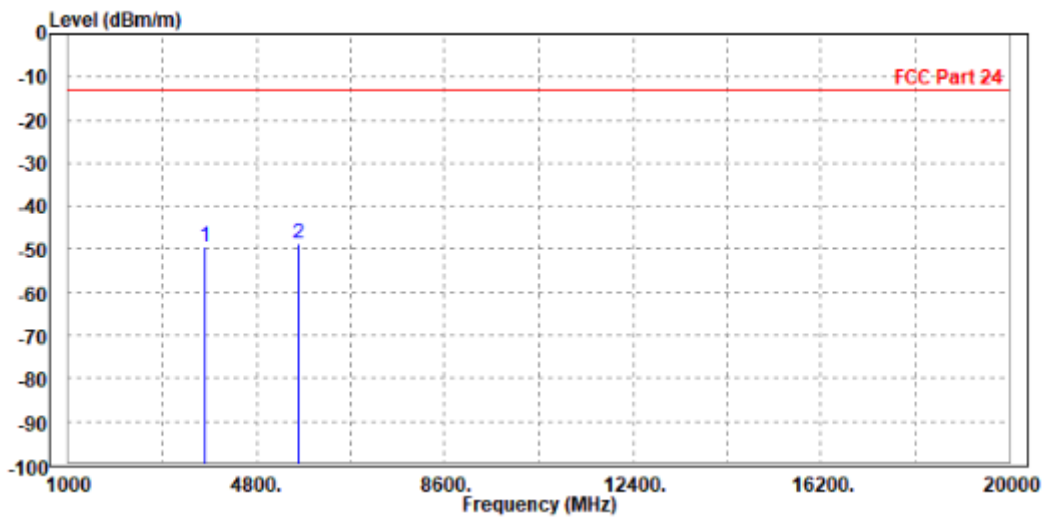


**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.26	-58.53	-13.00	-36.26	9.27	Peak	Vertical
2 PP	5640.000	-48.77	-59.02	-13.00	-35.77	10.25	Peak	Vertical





**BUREAU  
VERITAS**

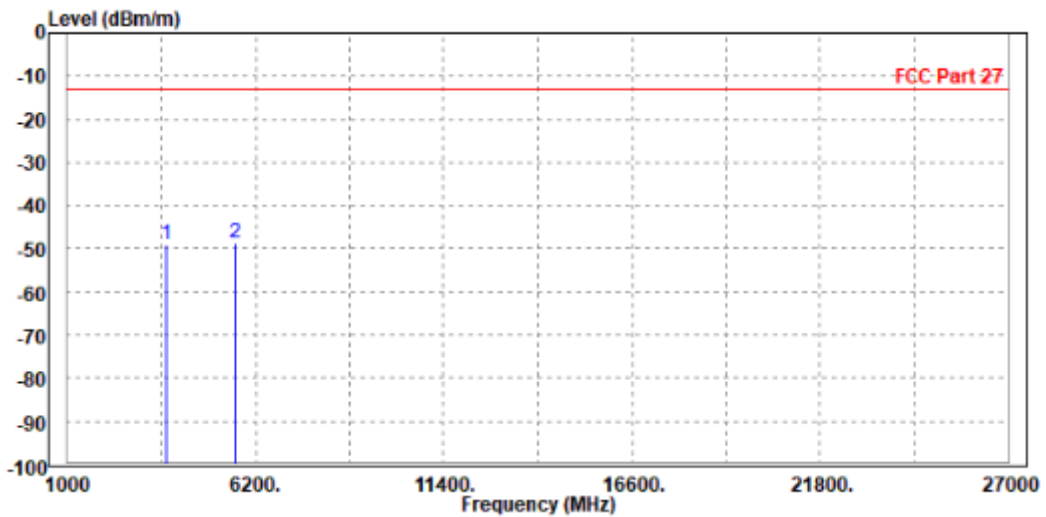
Test Report No.: W7L-P20210616-3RF02

LTE Band 25

CHANNEL BANDWIDTH: 1.4MHz / QPSK

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-48.98	-57.83	-13.00	-35.98	8.85	Peak	Horizontal
2	PP 5647.500	-48.63	-59.14	-13.00	-35.63	10.51	Peak	Horizontal



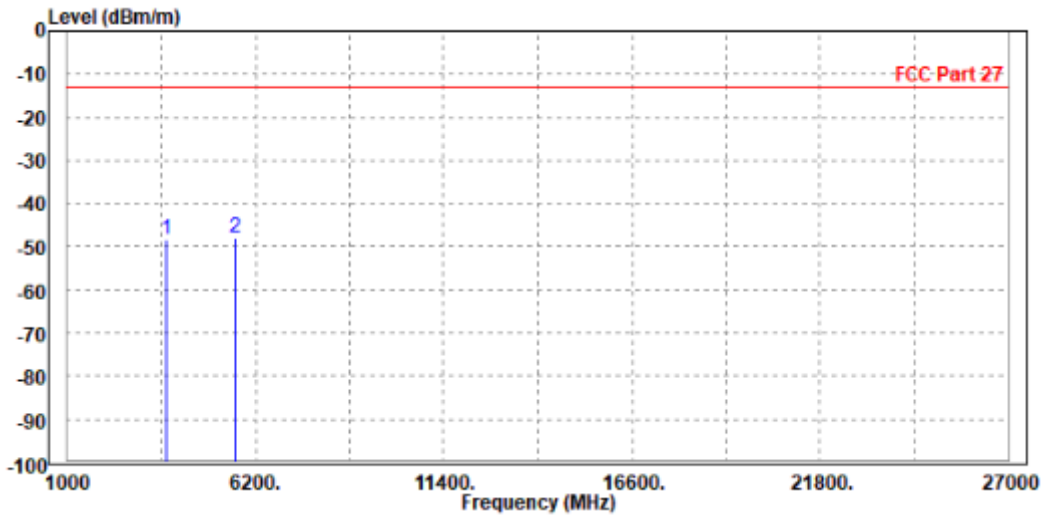


BUREAU VERITAS

Test Report No.: W7L-P20210616-3RF02

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-48.19	-57.46	-13.00	-35.19	9.27	Peak	Vertical
2 PP	5647.500	-48.10	-58.38	-13.00	-35.10	10.28	Peak	Vertical





**BUREAU  
VERITAS**

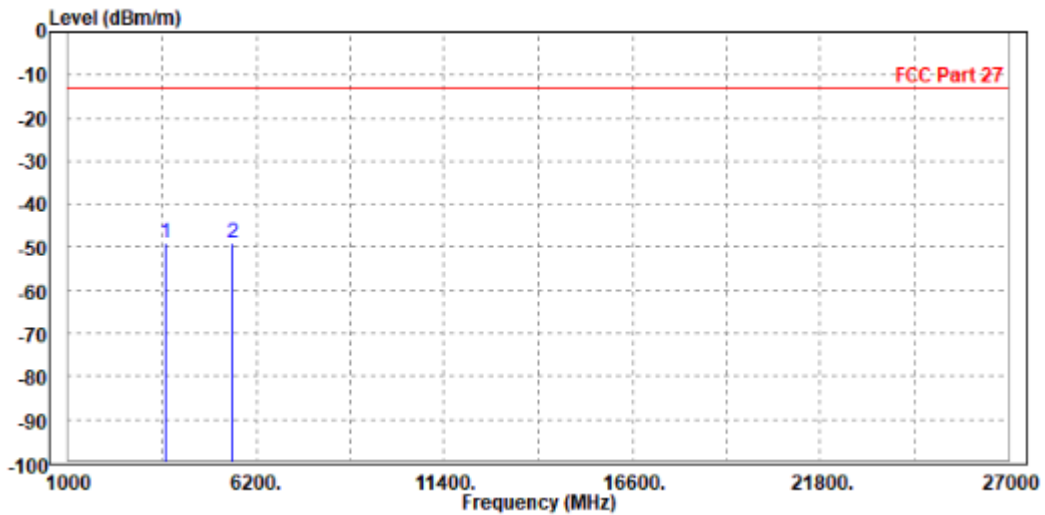
Test Report No.: W7L-P20210616-3RF02

CHANNEL BANDWIDTH: 3MHz / QPSK

CH26055

<b>MODE</b>	TX channel 26055	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3704.000	-49.02	-57.81	-13.00	-36.02	8.79	Peak	Horizontal
2	5554.500	-49.12	-59.32	-13.00	-36.12	10.20	Peak	Horizontal



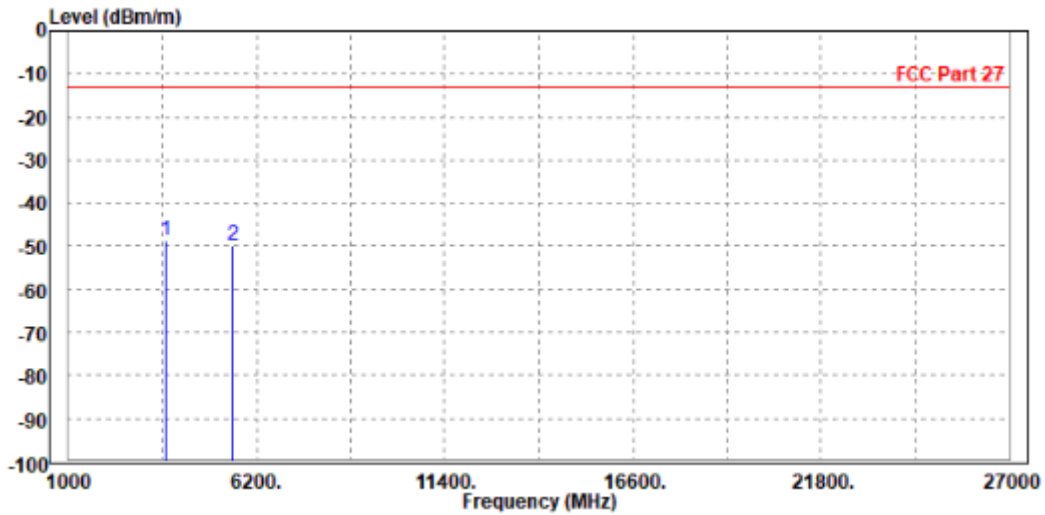


**BUREAU  
VERITAS**

Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 26055	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3704.000	-48.56	-57.81	-13.00	-35.56	9.25	Peak	Vertical
2	5554.500	-49.91	-59.83	-13.00	-36.91	9.92	Peak	Vertical





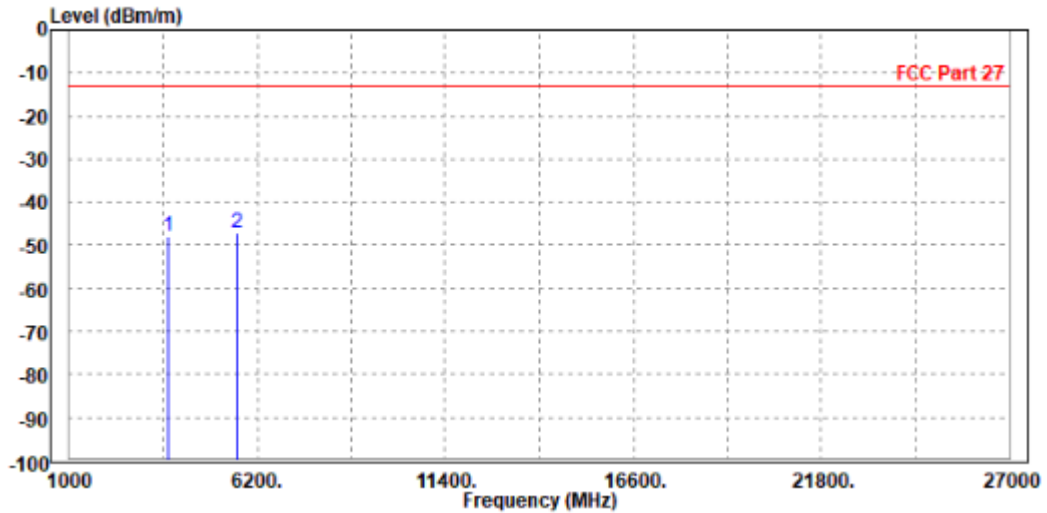
BUREAU VERITAS

Test Report No.: W7L-P20210616-3RF02

CH26365

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-47.99	-56.84	-13.00	-34.99	8.85	Peak	Horizontal
2	PP 5647.500	-47.20	-57.71	-13.00	-34.20	10.51	Peak	Horizontal





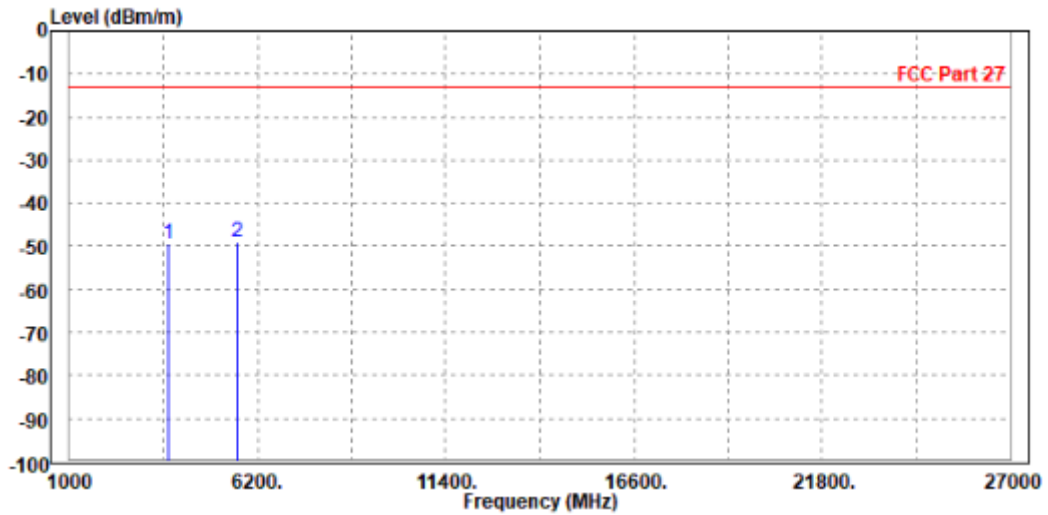


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**Test Report No.: W7L-P20210616-3RF02**

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-49.40	-58.67	-13.00	-36.40	9.27	Peak	Vertical
2 PP	5647.500	-49.03	-59.31	-13.00	-36.03	10.28	Peak	Vertical





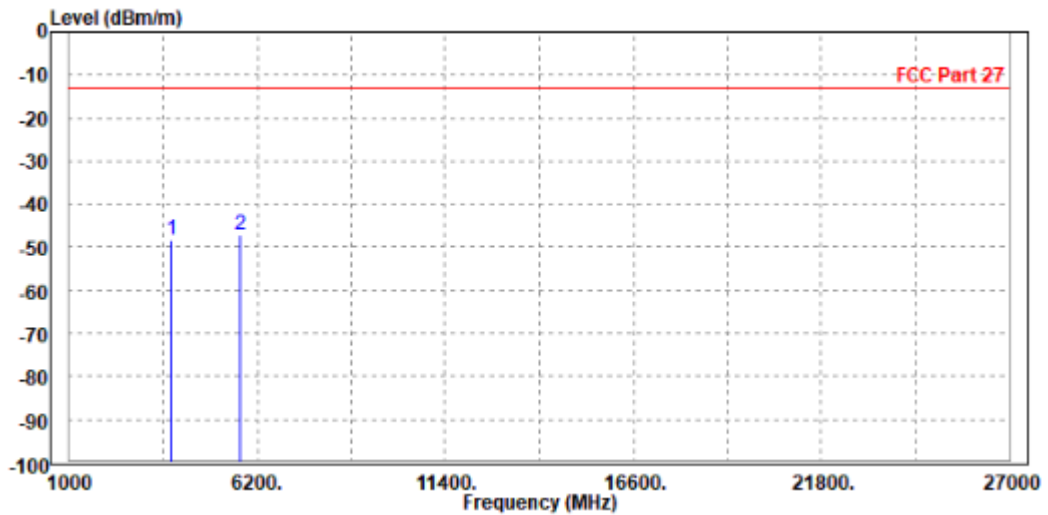
**BUREAU  
VERITAS**

**Test Report No.: W7L-P20210616-3RF02**

**CH26675**

<b>MODE</b>	TX channel 26675	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3834.000	-48.16	-57.09	-13.00	-35.16	8.93	Peak	Horizontal
2 PP	5740.500	-47.23	-58.04	-13.00	-34.23	10.81	Peak	Horizontal



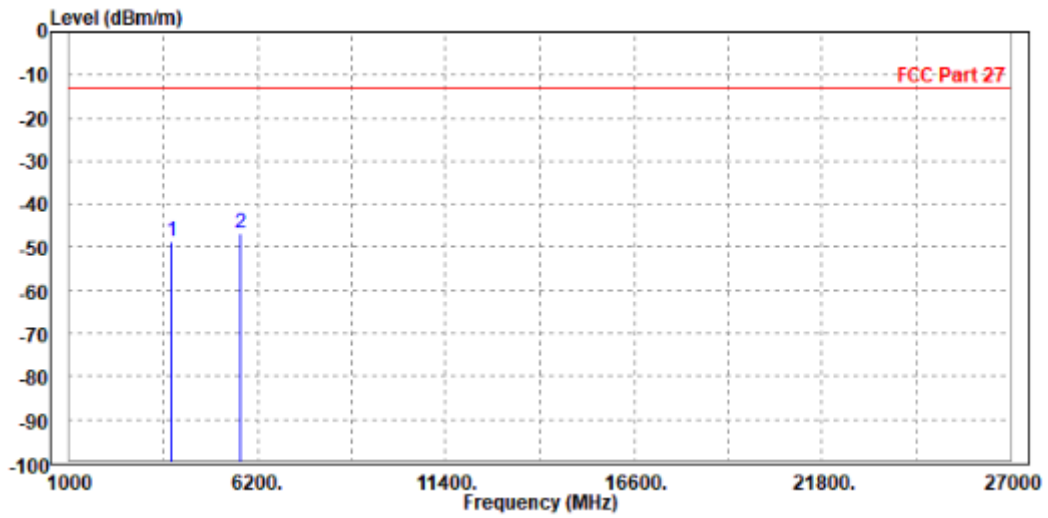


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Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 26675	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3834.000	-48.83	-58.12	-13.00	-35.83	9.29	Peak	Vertical
2	PP 5740.500	-46.79	-57.43	-13.00	-33.79	10.64	Peak	Vertical





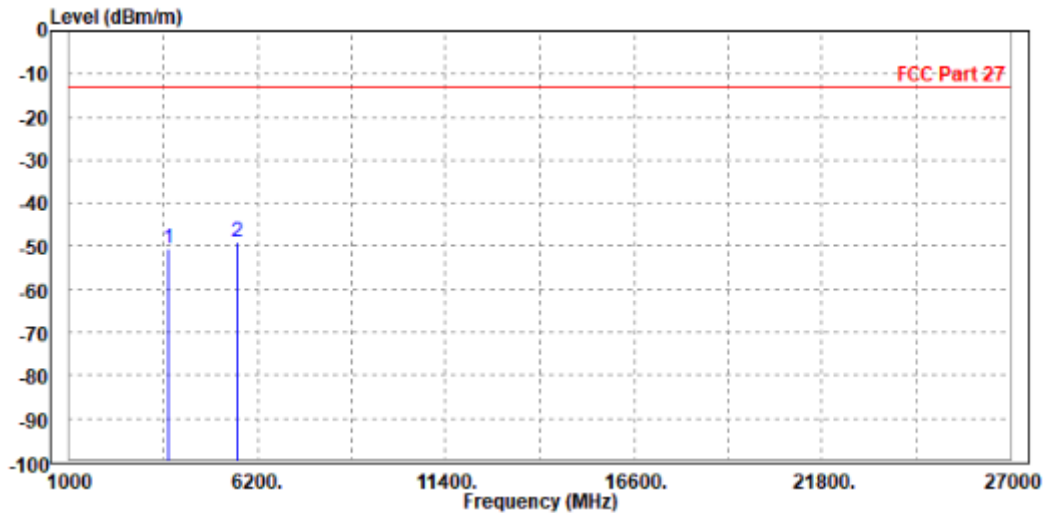
BUREAU  
VERITAS

Test Report No.: W7L-P20210616-3RF02

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-50.63	-59.48	-13.00	-37.63	8.85	Peak	Horizontal
2 PP	5647.500	-48.95	-59.46	-13.00	-35.95	10.51	Peak	Horizontal



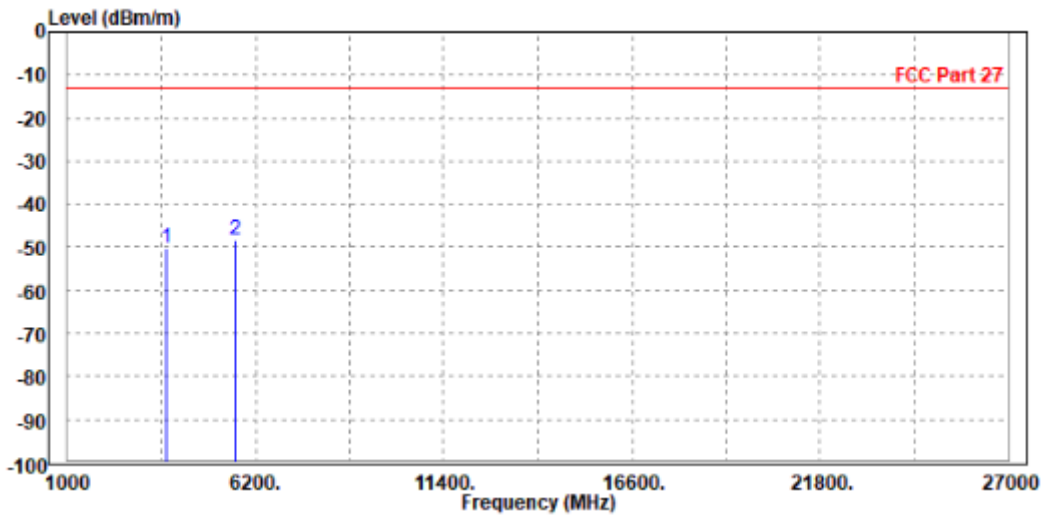


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Test Report No.: W7L-P20210616-3RF02

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-50.04	-59.31	-13.00	-37.04	9.27	Peak	Vertical
2 PP	5647.500	-48.26	-58.54	-13.00	-35.26	10.28	Peak	Vertical





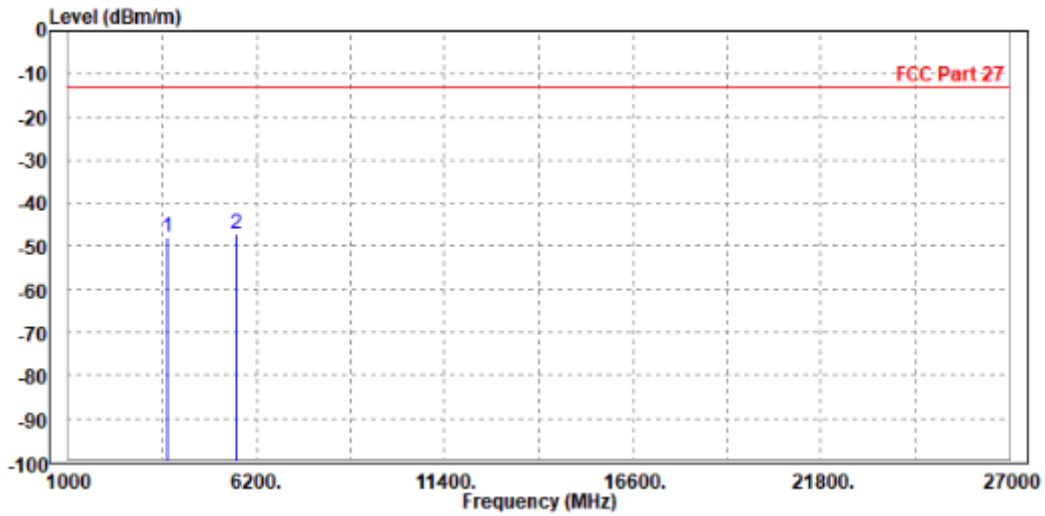
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VERITAS**

Test Report No.: W7L-P20210616-3RF02

CHANNEL BANDWIDTH: 10MHz / QPSK

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-47.99	-56.84	-13.00	-34.99	8.85	Peak	Horizontal
2 PP	5647.500	-47.20	-57.71	-13.00	-34.20	10.51	Peak	Horizontal



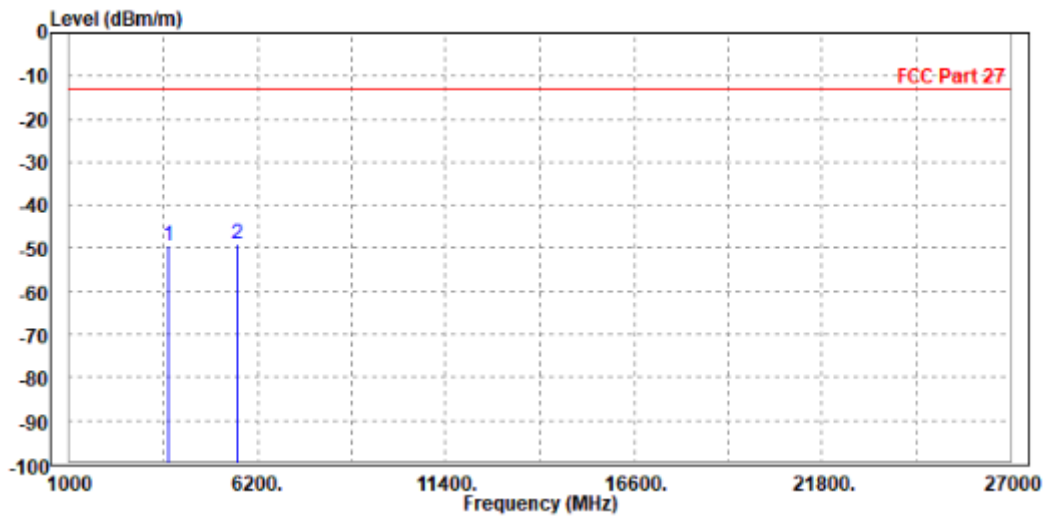


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Test Report No.: W7L-P20210616-3RF02

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-49.40	-58.67	-13.00	-36.40	9.27	Peak	Vertical
2 PP	5647.500	-49.03	-59.31	-13.00	-36.03	10.28	Peak	Vertical





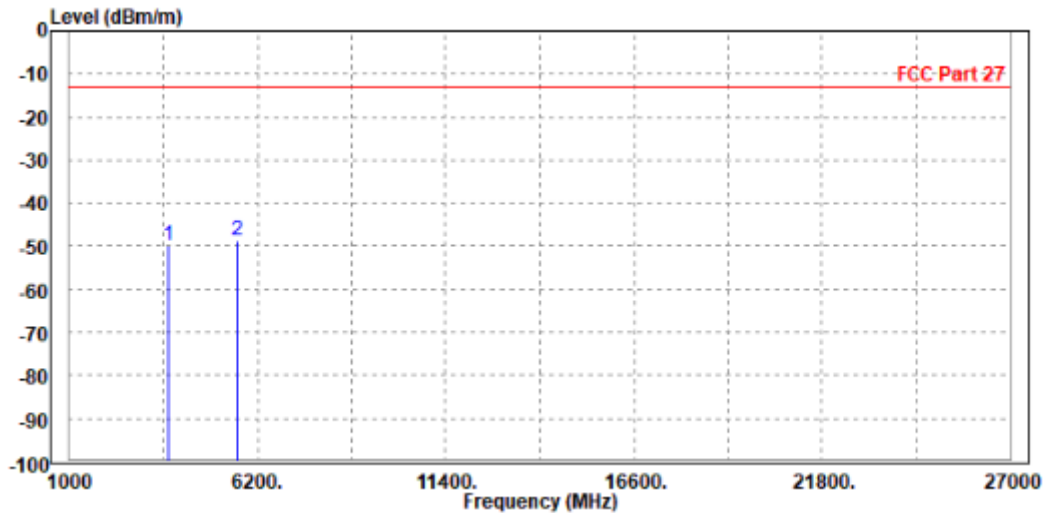
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VERITAS**

Test Report No.: W7L-P20210616-3RF02

**CHANNEL BANDWIDTH: 15MHz / QPSK**

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-49.71	-58.56	-13.00	-36.71	8.85	Peak	Horizontal
2 PP	5647.500	-48.67	-59.18	-13.00	-35.67	10.51	Peak	Horizontal





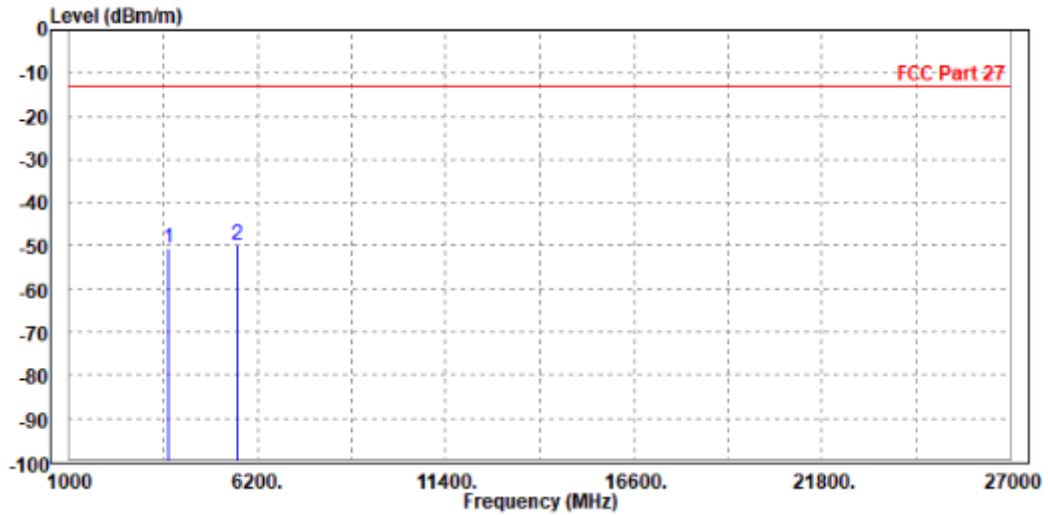


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**Test Report No.: W7L-P20210616-3RF02**

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-50.41	-59.68	-13.00	-37.41	9.27	Peak	Vertical
2 PP	5647.500	-49.64	-59.92	-13.00	-36.64	10.28	Peak	Vertical





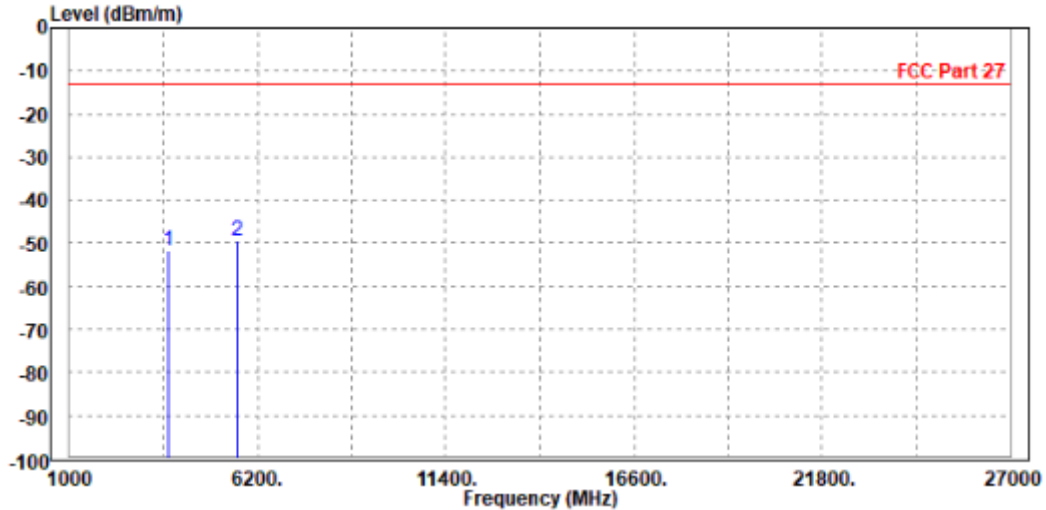
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VERITAS**

Test Report No.: W7L-P20210616-3RF02

**CHANNEL BANDWIDTH: 20MHz / QPSK**

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-51.66	-60.51	-13.00	-38.66	8.85	Peak	Horizontal
2 PP	5647.500	-49.28	-59.79	-13.00	-36.28	10.51	Peak	Horizontal



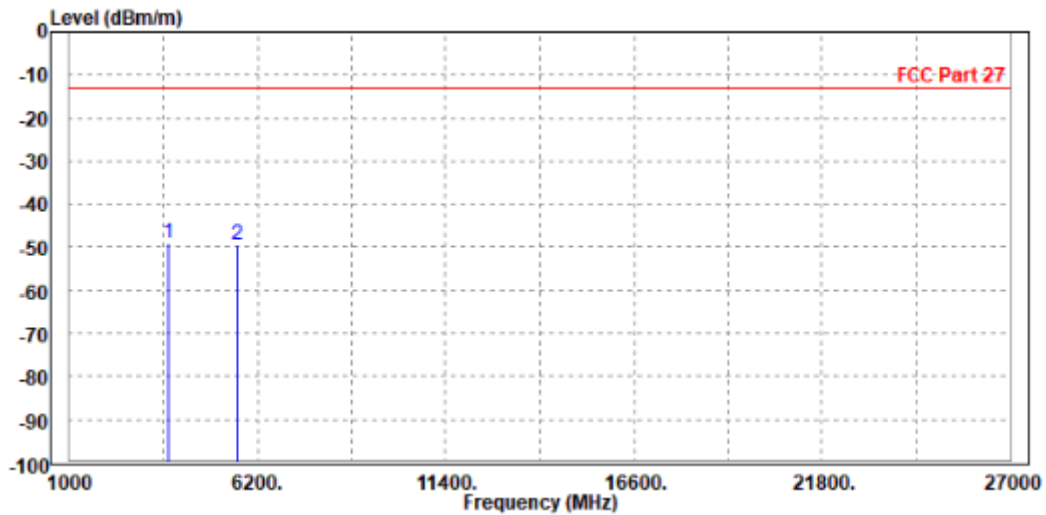


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**Test Report No.: W7L-P20210616-3RF02**

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3756.000	-49.17	-58.44	-13.00	-36.17	9.27	Peak	Vertical
2	5647.500	-49.31	-59.59	-13.00	-36.31	10.28	Peak	Vertical



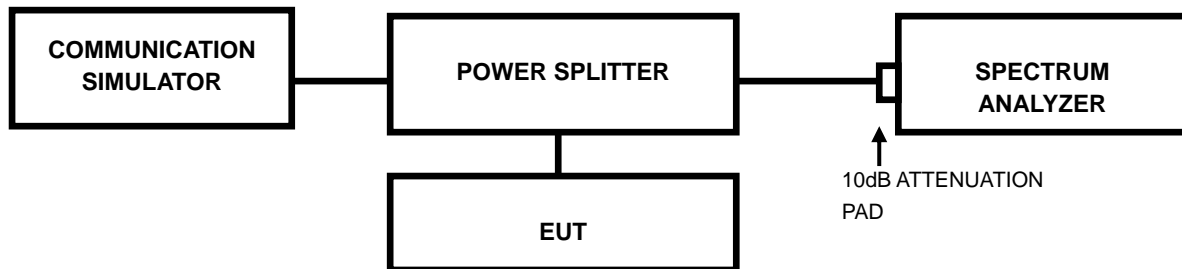


### 3.7 PEAK TO AVERAGE RATIO

#### 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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**Test Report No.: W7L-P20210616-3RF02**

### 3.7.4 TEST RESULTS

Please Refer to Appendix B 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@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)

**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

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



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

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

NOTE: APPENDIX B is another word.

**---END---**