



BUREAU VERITAS

Test Report No.: IC200520W003-1



# IC TEST REPORT (RSS-133)

Applicant:	Particle Industries, Inc
Address:	126 Post St, 4th floor, San Francisco, CA 94108 USA

Manufacturer or Supplier:	Particle Industries, Inc
Address:	126 Post St, 4th floor, San Francisco, CA 94108 USA
Product:	Tracker SoM LTE M1
Brand Name:	Particle
Model Name:	T402M/T404M
IC:	20127-T40X
Date of tests:	May. 21, 2020 ~ Jun. 09, 2020

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

- RSS-133 Issue 6, Amendment 1, January, 2018**
- RSS-Gen Issue 5, Amendment 1, March 2019**
- ANSI C63.26-2015**

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

Prepared by Alex Chen Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Jun. 09, 2020	 Date: Jun. 09, 2020

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Test Report No.: IC200520W003-1

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
IC200520W003-1	Original release	Jun. 09, 2020



## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: IC RSS-133 & RSS-Gen		
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
RSS-GEN		
6.7	Occupied Bandwidth	See Note
6.8	Transmit antenna	Compliance
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
RSS-133		
6.3	Frequency Stability AFC Freq. Error vs. Voltage AFC Freq. Error vs. Temperature	See Note
6.4	Maximum Peak Output Power	Compliance
6.4	Peak-to-average power ratio	See Note
6.5	Band Edge Measurements	See Note
6.5	Conducted Spurious Emissions	See Note
6.5	Transmitter Radiated Spurious Emissions	Compliance

Note: Test data re-use from certified module BG96, BG96 MINIPCIE, more details please refer test report R1811A0536-R8 (IC ID: 10224A-201709BG96).



### 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETSI TR 100 028-1 V1.4.1(2001-12):

MEASUREMENT	UNCERTAINTY
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions & Radiated Power (30MHz~1GMHz)	$\pm 4.98\text{dB}$
Radiated emissions & Radiated Power (1GMHz ~6GMHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GMHz ~18GMHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GMHz ~40GMHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
Band Edge Measurements	$\pm 4.70\text{dB}$
Peak to average ratio	$\pm 0.76\text{dB}$

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



## 1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,20	Feb. 25,21
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 24,19	Jun. 23,20
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 27,20	Mar. 26,21
Horn Antenna (1GHz-18GHz)	ETS-LINDGREN	3117	00168692	Mar. 27,20	Mar. 26,21
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40 -K-SG/QMS-00 361	15433	Nov. 24,19	Nov. 23,20
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 27,20	Feb. 26,21
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 24,19	Jun. 23,20
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 24,19	Jun. 23,20
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Jun. 24,19	Jun. 23,20
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	May. 18,20	May. 17,23
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SM A	1505	Jun. 24,19	Jun. 23,20
Power Meter	Anritsu	ML2495A	1506002	Feb. 26,20	Feb. 25,21
Power Sensor	Anritsu	MA2411B	1339352	Feb. 26,20	Feb. 25,21
Humid & Temp Programmable Tester	Juyi	ITH-120-45-CP -AR	IAA1504-001	Jun. 24,19	Jun. 23,20
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Mar. 11,20	Mar. 10,21
Power Divider	MCLI/USA	PS2-15	24880	Nov. 22, 19	Nov. 21, 20

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
  2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
  3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
  4. The IC test Site Registration No. is 21771-1; The Designation No. is CN0007.



## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Tracker SoM LTE M1	
<b>BRAND NAME</b>	Particle	
<b>MODEL NAME</b>	T402M/T404M	
<b>POWER SUPPLY</b>	Li+ PIN: DC +3.3V--4.3V or Vusb PIN: DC +4.35V--5.5V or Vin PIN: DC +3.9V--17V	
<b>MODULATION TYPE</b>	<b>GSM, GPRS:</b> GMSK <b>EDGE:</b> 8PSK <b>LTE CAT-M1:</b> QPSK, 16QAM	
<b>FREQUENCY RANGE</b>	<b>GSM, GPRS, EDGE</b>	1850.2MHz ~ 1909.8MHz
	<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</b>	2280mW
	<b>EDGE</b>	800mW
	<b>LTE Band 2 Channel Bandwidth: 1.4MHz</b>	562mW
	<b>LTE Band 2 Channel Bandwidth: 3MHz</b>	581mW
	<b>LTE Band 2 Channel Bandwidth: 5MHz</b>	577mW
	<b>LTE Band 2 Channel Bandwidth: 10MHz</b>	579mW
	<b>LTE Band 2 Channel Bandwidth: 15MHz</b>	577mW
	<b>LTE Band 2 Channel Bandwidth: 20MHz</b>	570mW
	<b>LTE Band 25 Channel Bandwidth: 1.4MHz</b>	612mW
	<b>LTE Band 25 Channel Bandwidth: 3MHz</b>	615mW
	<b>LTE Band 25 Channel Bandwidth: 5MHz</b>	675mW
	<b>LTE Band 25 Channel Bandwidth: 10MHz</b>	676mW
	<b>LTE Band 25 Channel Bandwidth: 15MHz</b>	671mW
	<b>LTE Band 25 Channel Bandwidth: 20MHz</b>	659mW
	<b>EMISSION DESIGNATOR</b>	<b>GSM</b>
<b>EDGE</b>		248KG7W
<b>LTE Band 2 Channel Bandwidth: 1.4MHz</b>		QPSK: 1M11G7D
		16QAM: 948KW7D
<b>LTE Band 2 Channel Bandwidth: 3MHz</b>		QPSK: 1M16G7D
		16QAM: 985KW7D
<b>LTE Band 2 Channel Bandwidth: 5MHz</b>		QPSK: 1M17G7D
		16QAM: 1M01W7D
<b>LTE Band 2 Channel Bandwidth: 10MHz</b>		QPSK: 1M19G7D
		16QAM: 1M19W7D
<b>LTE Band 2 Channel Bandwidth: 15MHz</b>		QPSK: 1M22G7D
		16QAM: 1M90W7D
<b>LTE Band 2 Channel Bandwidth: 20MHz</b>		QPSK: 1M25G7D
		16QAM: 1M15W7D
<b>LTE Band 25 Channel Bandwidth: 1.4MHz</b>		QPSK: 1M11G7D
	16QAM: 951KW7D	
<b>LTE Band 25</b>	QPSK: 1M16G7D	



	<b>Channel Bandwidth: 3MHz</b>	16QAM: 992KW7D
	<b>LTE Band 25 Channel Bandwidth: 5MHz</b>	QPSK: 1M14G7D 16QAM: 975KW7D
	<b>LTE Band 25 Channel Bandwidth: 10MHz</b>	QPSK: 1M18G7D 16QAM: 1M05W7D
	<b>LTE Band 25 Channel Bandwidth: 15MHz</b>	QPSK: 1M20G7D 16QAM: 1M06W7D
	<b>LTE Band 25 Channel Bandwidth: 20MHz</b>	QPSK: 1M21G7D 16QAM: 1M11W7D
	<b>ANTENNA TYPE</b>	External Antenna with 3.77dBi gain for GSM 1900/LTE Band 2/LTE Band 25
<b>HW VERSION</b>	V1.0	
<b>SW VERSION</b>	V1.5.4	
<b>I/O PORTS</b>	Refer to user's manual	
<b>CABLE SUPPLIED</b>	N/A	

**NOTE:**

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The schematic and PCB of the two models T402M and T404M used by our company for the certification is completely the same ,and the HW&SW used is the same. Because the product is sold in different market using different models eSIM, different models are named. the differences are as follows:T402M uses eSIM of Kore.T404M uses eSIM of Twilio.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

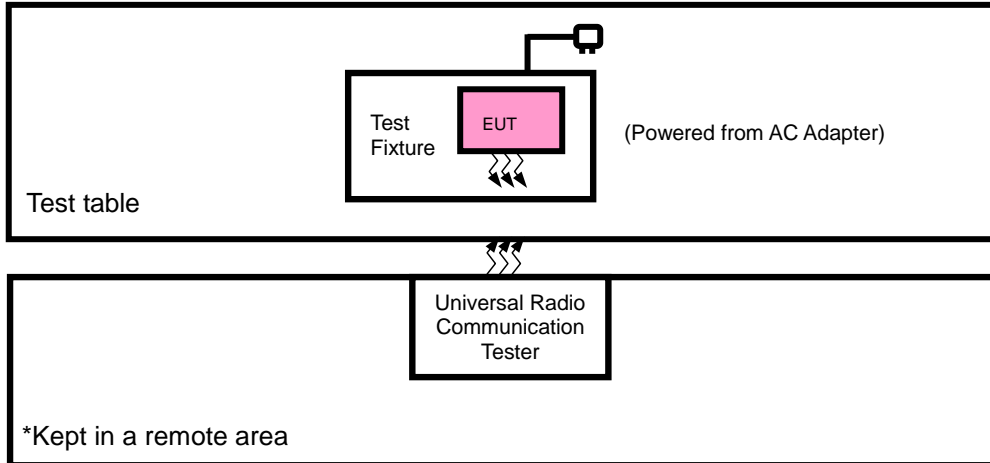
MODULATION MODE	TX FUNCTION
GSM/GPRS/EDGE	1TX/1RX
LTE	1TX/1RX

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



## 2.2 CONFIGURATION OF SYSTEM UNDER TEST

### FOR RADIATION EMISSION





### 2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	SOM test Board	Particle	V03	38069A-Y411-200421	N/A
2	FPCB Antenna	Particle	Gain: 3.77dBi	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

### 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 and X-plane for LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with GSM/EDGE or LTE link
B	EUT + Battery with GSM/EDGE or LTE link



**GSM MODE**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
EIRP	512 to 810	512, 661, 810	GSM, EDGE
RADIATED EMISSION	512 to 810	512, 661, 810	GSM, EDGE

**LTE BAND 2**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,16QAM	1 RB / 0 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,16QAM	1 RB / 0 RB Offset
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	18900	10MHz	QPSK	1 RB / 0 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	1 RB / 0 RB Offset
	18700 to 19100	18900	20MHz	QPSK	1 RB / 0 RB Offset

**LTE BAND 25**

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM	2 RB / 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM	2 RB / 0 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM	2 RB / 0 RB Offset
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK,16QAM	2 RB / 0 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM	2 RB / 0 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK,16QAM	2 RB / 0 RB Offset
RADIATED EMISSION	26047 to 26683	26365	1.4MHz	QPSK	2 RB / 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK	2 RB / 0 RB Offset
	26065 to 26665	26365	5MHz	QPSK	2 RB / 0 RB Offset
	26090 to 26640	26365	10MHz	QPSK	2 RB / 0 RB Offset
	26115 to 26615	26365	15MHz	QPSK	2 RB / 0 RB Offset
	26140 to 26590	26365	20MHz	QPSK	2 RB / 0 RB Offset



**TEST CONDITION:**

TEST ITEM	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
EIRP	25deg. C, 57%RH	DC 3.8V from som test board: V03	Tony
RADIATED EMISSION	23deg. C, 70%RH	DC 3.8V from som test board: V03	Tony

**Remarks: The Som test board: V03 is support units, it power by 5V adapter.**



## 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:

**Canada RSS-133, Issue 6, Amendment 1, January 2018**

**Canada RSS-Gen, Issue 5, Amendment 1, March 2019**

**ANSI C63.26 - 2015**

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

## 2.7 TRANSMIT ANTENNA

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

Antenna Type	External Antenna
Antenna Gain	3.77 dBi
Impedance	50 $\Omega$



### 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.

$$\text{ERP} = \text{EIRP} - 2.15$$

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

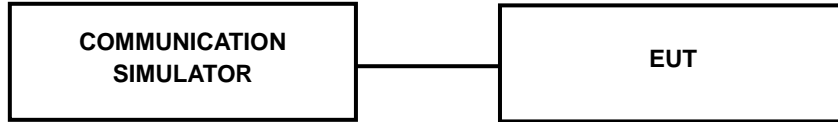
The EUT was set up for the maximum power with WCDMA & LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.





### 3.1.3 TEST SETUP

#### CONDUCTED POWER MEASUREMENT:



### 3.1.4 TEST RESULTS

#### CONDUCTED OUTPUT POWER (dBm)

Band	GSM1900			GSM1900 Max. Tune-up Power
	Channel	512	661	
Frequency	1850.2	1880	1909.8	
GPRS (GMSK, 1Tx-slot)	29.81	29.85	29.95	30.0
GPRS (GMSK, 2Tx-slot)	29.71	29.66	29.82	30.0
GPRS (GMSK, 3Tx-slot)	29.62	29.62	29.72	30.0
GPRS (GMSK, 4Tx-slot)	29.46	29.45	29.56	30.0
EDGE (GMSK, 1Tx-slot)	25.18	25.00	25.26	25.5
EDGE (GMSK, 2Tx-slot)	25.03	24.89	25.10	25.5
EDGE (GMSK, 3Tx-slot)	24.96	24.73	24.94	25.0
EDGE (GMSK, 4Tx-slot)	24.74	24.43	24.78	25.0



**LTE Band 2**

Band/BW	Modulation	RB Size	RB Offset	Low CH 18607	Mid CH 18900	High CH 19193	Tune Up
				Frequency 1850.7 MHz	Frequency 1880 MHz	Frequency 1909.3 MHz	
2/ 1.4	QPSK	1	0	23.32	23.25	23.33	23.5
		1	5	23.38	23.16	23.37	
		3	0	23.41	23.27	23.36	23.5
		3	3	23.32	23.18	23.34	
		6	0	23.33	23.31	23.24	23.5
	16QAM	1	0	22.75	22.75	22.73	23.5
		1	5	22.81	22.76	22.79	
		3	0	23.14	23.03	23.16	23.5
		3	3	23.18	23.09	23.15	
		6	0	23.28	23.31	23.29	23.5

Band/BW	Modulation	RB Size	RB Offset	Low CH 18615	Mid CH 18900	High CH 19185	Tune Up
				Frequency 1851.5 MHz	Frequency 1880 MHz	Frequency 1908.5 MHz	
2/ 3	QPSK	1	0	23.34	23.27	23.32	23.5
		1	5	23.34	23.17	23.37	
		3	0	23.37	23.27	23.36	23.5
		3	3	23.31	23.21	23.34	
		6	0	23.26	23.31	23.26	23.5
	16QAM	1	0	22.72	22.81	22.76	23.5
		1	5	22.78	22.79	22.77	
		3	0	23.17	23.03	23.16	23.5
		3	3	23.14	23.10	23.15	
		6	0	23.33	23.26	23.32	23.5



Band/BW	Modulation	RB Size	RB Offset	Low CH 18625	Mid CH 18900	High CH 19175	Tune Up
				Frequency 1852.5 MHz	Frequency 1880 MHz	Frequency 1907.5 MHz	
2/ 5	QPSK	1	0	23.35	23.22	23.33	23.5
		1	5	23.39	23.14	23.37	
		3	0	23.38	23.26	23.40	23.5
		3	3	23.34	23.21	23.31	
		6	0	23.26	23.32	23.27	23.5
	16QAM	1	0	22.73	22.77	22.76	23.5
		1	5	22.75	22.82	22.76	
		3	0	23.17	23.03	23.15	23.5
		3	3	23.14	23.08	23.12	
		6	0	23.30	23.30	23.28	23.5

Band/BW	Modulation	RB Size	RB Offset	Low CH 18650	Mid CH 18900	High CH 19150	Tune Up
				Frequency 1855 MHz	Frequency 1880 MHz	Frequency 1905 MHz	
2/ 10	QPSK	1	0	23.32	23.25	23.33	23.5
		1	5	23.39	23.14	23.38	
		3	0	23.35	23.30	23.36	23.5
		3	3	23.35	23.20	23.34	
		6	0	23.32	23.26	23.27	23.5
	16QAM	1	0	22.73	22.74	22.72	23.5
		1	5	22.80	22.78	22.79	
		3	0	23.17	23.04	23.12	23.5
		3	3	23.16	23.06	23.18	
		6	0	23.34	23.24	23.33	23.5



Band/BW	Modulation	RB Size	RB Offset	Low CH 18675	Mid CH 18900	High CH 19125	Tune Up
				Frequency 1857.5 MHz	Frequency 1880 MHz	Frequency 1902.5 MHz	
2/ 15	QPSK	1	0	23.39	23.25	23.30	23.5
		1	5	23.37	23.19	23.33	
		3	0	23.41	23.33	23.37	23.5
		3	3	23.32	23.21	23.35	
		6	0	23.33	23.31	23.27	23.5
	16QAM	1	0	22.77	22.81	22.72	23.5
		1	5	22.79	22.79	22.79	
		3	0	23.13	23.09	23.14	23.5
		3	3	23.20	23.06	23.19	
		6	0	23.28	23.28	23.29	23.5

Band/BW	Modulation	RB Size	RB Offset	Low CH 18700	Mid CH 18900	High CH 19100	Tune Up
				Frequency 1860 MHz	Frequency 1880 MHz	Frequency 1900 MHz	
2/ 20	QPSK	1	0	23.40	23.29	23.38	23.5
		1	5	23.41	23.22	23.39	
		3	0	<b>23.43</b>	23.34	23.41	23.5
		3	3	23.38	23.26	23.36	
		6	0	23.34	23.33	23.32	23.5
	16QAM	1	0	22.80	22.82	22.78	23.5
		1	5	22.83	22.84	22.81	
		3	0	23.19	23.11	23.17	23.5
		3	3	23.22	23.14	23.20	
		6	0	23.36	23.32	23.34	23.5



**LTE Band 25**

Band/BW	Modulation	RB Size	RB Offset	Low CH 26047	Mid CH 26365	High CH 26683	Tune Up
				Frequency 1850.7 MHz	Frequency 1882.5 MHz	Frequency 1914.3 MHz	
25/ 1.4	QPSK	1	0	23.85	23.86	24.03	24.5
		1	5	23.83	23.77	23.99	
		3	0	23.88	23.80	24.00	24.5
		3	3	23.78	23.73	23.97	
		6	0	23.91	23.87	23.99	24.5
	16QAM	1	0	23.25	23.20	23.40	24.5
		1	5	23.26	23.17	23.41	
		3	0	23.56	23.50	23.75	24.5
		3	3	23.52	23.48	23.66	
		6	0	23.78	23.82	23.96	24.5

Band/BW	Modulation	RB Size	RB Offset	Low CH 26055	Mid CH 26365	High CH 26675	Tune Up
				Frequency 1851.5 MHz	Frequency 1882.5 MHz	Frequency 1913.5 MHz	
25/ 3	QPSK	1	0	23.87	23.88	24.02	24.5
		1	5	23.79	23.78	23.99	
		3	0	23.84	23.80	24.00	24.5
		3	3	23.77	23.76	23.97	
		6	0	23.84	23.87	24.01	24.5
	16QAM	1	0	23.22	23.26	23.43	24.5
		1	5	23.23	23.20	23.39	
		3	0	23.59	23.50	23.75	24.5
		3	3	23.48	23.49	23.66	
		6	0	23.83	23.77	23.99	24.5



Band/BW	Modulation	RB Size	RB Offset	Low CH 26065	Mid CH 26365	High CH 26665	Tune Up
				Frequency 1852.5 MHz	Frequency 1882.5 MHz	Frequency 1912.5 MHz	
25/ 5	QPSK	1	0	23.88	23.83	24.03	24.5
		1	5	23.84	23.75	23.99	
		3	0	23.85	23.79	24.04	24.5
		3	3	23.80	23.76	23.94	
		6	0	23.84	23.88	24.02	24.5
	16QAM	1	0	23.23	23.22	23.43	24.5
		1	5	23.20	23.23	23.38	
		3	0	23.59	23.50	23.74	24.5
		3	3	23.48	23.47	23.63	
		6	0	23.80	23.81	23.95	24.5

Band/BW	Modulation	RB Size	RB Offset	Low CH 26090	Mid CH 26365	High CH 26640	Tune Up
				Frequency 1855 MHz	Frequency 1882.5 MHz	Frequency 1910 MHz	
25/ 10	QPSK	1	0	23.85	23.86	24.03	24.5
		1	5	23.84	23.75	24.00	
		3	0	23.82	23.83	24.00	24.5
		3	3	23.81	23.75	23.97	
		6	0	23.90	23.82	24.02	24.5
	16QAM	1	0	23.23	23.19	23.39	24.5
		1	5	23.25	23.19	23.41	
		3	0	23.59	23.51	23.71	24.5
		3	3	23.50	23.45	23.69	
		6	0	23.84	23.75	24.00	24.5



Band/BW	Modulation	RB Size	RB Offset	Low CH 26115	Mid CH 26365	High CH 26615	Tune Up
				Frequency 1857.5 MHz	Frequency 1882.5 MHz	Frequency 1907.5 MHz	
25/ 15	QPSK	1	0	23.92	23.86	24.00	24.5
		1	5	23.82	23.80	23.95	
		3	0	23.88	23.86	24.01	24.5
		3	3	23.78	23.76	23.98	
		6	0	23.91	23.87	24.02	24.5
	16QAM	1	0	23.27	23.26	23.39	24.5
		1	5	23.24	23.20	23.41	
		3	0	23.55	23.56	23.73	24.5
		3	3	23.54	23.45	23.70	
		6	0	23.78	23.79	23.96	24.5

Band/BW	Modulation	RB Size	RB Offset	Low CH 26140	Mid CH 26365	High CH 26590	Tune Up
				Frequency 1860 MHz	Frequency 1882.5 MHz	Frequency 1905 MHz	
25/ 20	QPSK	1	0	23.93	23.90	<b>24.08</b>	24.5
		1	5	23.86	23.83	24.01	
		3	0	23.90	23.87	24.05	24.5
		3	3	23.84	23.81	23.99	
		6	0	23.92	23.89	24.07	24.5
	16QAM	1	0	23.30	23.27	23.45	24.5
		1	5	23.28	23.25	23.43	
		3	0	23.61	23.58	23.76	24.5
		3	3	23.56	23.53	23.71	
		6	0	23.86	23.83	24.01	24.5



### EIRP POWER (dBm)

#### GSM 1900

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
512	1850.2	29.81	3.77	33.58	<b>2280.34</b>	2
661	1880.0	29.85	3.77	33.62	2301.44	2
810	1909.8	29.95	3.77	33.72	2355.05	2

#### EDGE 1900

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
512	1850.2	25.18	3.77	28.95	785.24	2
661	1880.0	25.00	3.77	28.77	753.36	2
810	1909.8	25.26	3.77	29.03	<b>799.83</b>	2





**LTE BAND 2**

**CHANNEL BANDWIDTH: 1.4MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	23.42	3.77	27.19	523.60	2
18900	1880.0	23.55	3.77	27.32	539.51	2
19193	1908.3	23.73	3.77	27.50	<b>562.34</b>	2

**CHANNEL BANDWIDTH: 1.4MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	22.53	3.77	26.30	426.58	2
18900	1880.0	22.53	3.77	26.30	426.58	2
19193	1908.3	22.49	3.77	26.26	422.67	2



CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	23.84	3.77	27.61	576.77	2
18900	1880.0	23.59	3.77	27.36	544.5	2
19185	1908.5	23.76	3.77	27.53	566.24	2

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	23.83	3.77	27.60	575.44	2
18900	1880.0	23.85	3.77	27.62	578.1	2
19185	1908.5	23.87	3.77	27.64	<b>580.76</b>	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)
18625	1852.5	23.43	3.77	27.20	524.81	2
18900	1880.0	23.58	3.77	27.35	543.25	2
19175	1907.5	23.72	3.77	27.49	561.05	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	23.80	3.77	27.57	571.48	2
18900	1880.0	23.81	3.77	27.58	572.8	2
19175	1907.5	23.84	3.77	27.61	<b>576.77</b>	2



CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855.0	23.51	3.77	27.28	534.56	2
18900	1880.0	23.60	3.77	27.37	545.76	2
19150	1905.0	23.75	3.77	27.52	564.94	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855.0	23.82	3.77	27.59	574.12	2
18900	1880.0	23.84	3.77	27.61	576.77	2
19150	1905.0	23.86	3.77	27.63	<b>579.43</b>	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	23.49	3.77	27.26	532.11	2
18900	1880.0	23.56	3.77	27.33	540.75	2
19125	1902.5	23.73	3.77	27.50	562.34	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	23.77	3.77	27.54	567.54	2
18900	1880.0	23.82	3.77	27.59	574.12	2
19125	1902.5	23.84	3.77	27.61	<b>576.77</b>	2



**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	23.46	3.77	27.23	528.45	2
18900	1880.0	23.51	3.77	27.28	534.56	2
19125	1902.5	23.70	3.77	27.47	558.47	2

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	23.75	3.77	27.52	564.94	2
18900	1880.0	23.78	3.77	27.55	568.85	2
19125	1902.5	23.79	3.77	27.56	<b>570.16</b>	2

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



**LTE BAND 25**

**CHANNEL BANDWIDTH: 1.4MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	23.53	3.77	27.30	537.03	2
26340	1880.0	24.10	3.77	27.87	<b>612.35</b>	2
26683	1914.3	23.62	3.77	27.39	548.28	2

**CHANNEL BANDWIDTH: 1.4MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	24.08	3.77	27.85	609.54	2
26340	1880.0	23.94	3.77	27.71	590.2	2
26683	1914.3	23.98	3.77	27.75	595.66	2

**CHANNEL BANDWIDTH: 3MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	23.63	3.77	27.40	549.54	2
26340	1880.0	23.79	3.77	27.56	570.16	2
26675	1913.5	24.02	3.77	27.79	601.17	2

**CHANNEL BANDWIDTH: 3MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	23.88	3.77	27.65	582.1	2
26340	1880.0	24.00	3.77	27.77	598.41	2
26675	1913.5	24.12	3.77	27.89	<b>615.18</b>	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	23.77	3.77	27.54	567.54	2
26340	1880.0	23.69	3.77	27.46	557.19	2
26665	1912.5	23.76	3.77	27.53	566.24	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	24.17	3.77	27.94	622.3	2
26340	1880.0	24.24	3.77	28.01	632.41	2
26665	1912.5	24.52	3.77	28.29	<b>674.53</b>	2

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855.0	24.00	3.77	27.77	598.41	2
26340	1880.0	23.66	3.77	27.43	553.35	2
26640	1910.0	23.85	3.77	27.62	578.10	2

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855.0	24.37	3.77	28.14	651.63	2
26340	1880.0	24.41	3.77	28.18	657.66	2
26640	1910.0	24.53	3.77	28.30	<b>676.08</b>	2



CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	23.85	3.77	27.62	578.10	2
26340	1880.0	23.68	3.77	27.45	555.90	2
26615	1907.5	23.81	3.77	27.58	572.80	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	24.09	3.77	27.86	610.94	2
26340	1880.0	24.41	3.77	28.18	657.66	2
26615	1907.5	24.50	3.77	28.27	<b>671.43</b>	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860.0	23.81	3.77	27.58	572.8	2
26340	1880.0	23.78	3.77	27.55	568.85	2
26590	1905.0	23.99	3.77	27.76	597.04	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860.0	23.80	3.77	27.57	571.48	2
26340	1880.0	24.42	3.77	28.19	<b>659.17</b>	2
26590	1905.0	24.28	3.77	28.05	638.26	2

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

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



### 3.2 FREQUENCY STABILITY MEASUREMENT

#### 3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

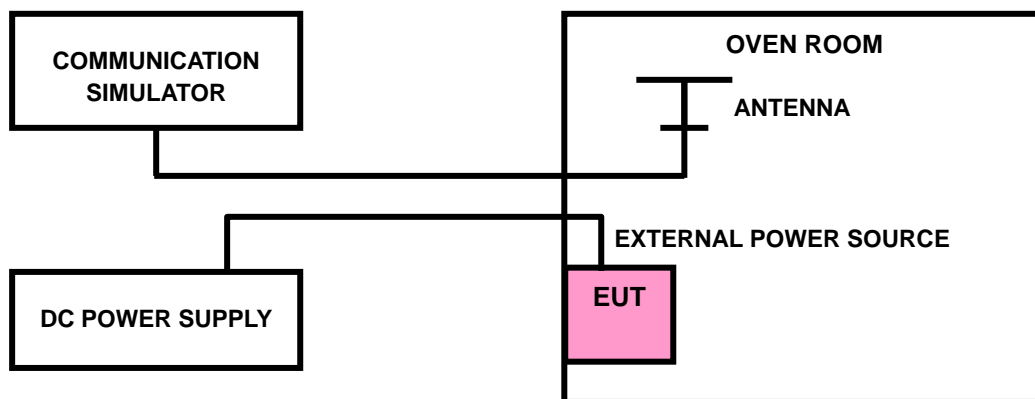
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### 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







Test Report No.: IC200520W003-1

### 3.2.4 TEST RESULTS

The test results was recorded in Report No.:R1811A0536-R8 (IC ID: 10224A-201709BG96).

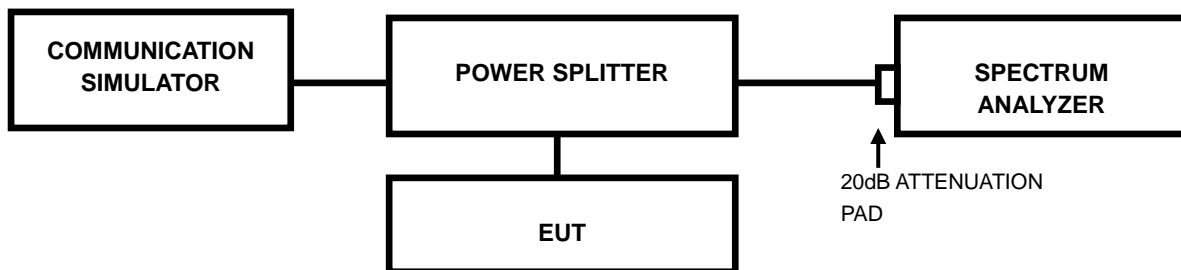


### 3.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 3.3.1 TEST PROCEDURES

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

#### 3.3.2 TEST SETUP



#### 3.3.3 TEST RESULTS

The test results was recorded in Report No.:R1811A0536-R8 (IC ID: 10224A-201709BG96).

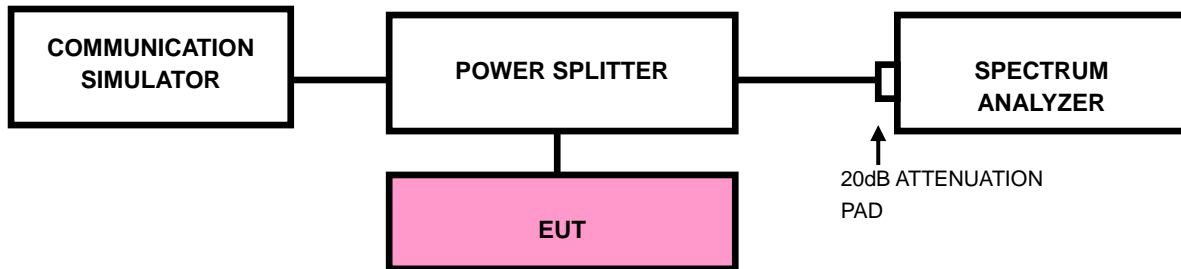


### 3.4 BAND EDGE MEASUREMENT

#### 3.4.1 LIMITS OF BAND EDGE MEASUREMENT

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

#### 3.4.2 TEST SETUP





### 3.4.3 TEST PROCEDURES

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1.5 MHz. RBW of the spectrum is 10kHz and VBW of the spectrum is 30kHz (GSM/GPRS/EDGE).
- c. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 20kHz and VBW of the spectrum is 100 kHz. (LTE bandwidth 1.4MHz)
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 3MHz)
- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 50kHz and VBW of the spectrum is 200kHz. (LTE bandwidth 5MHz)
- f. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 10MHz)
- g. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 15MHz)
- h. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 20MHz)
- i. Record the max trace plot into the test report.

### 3.4.4 TEST RESULTS

The test results was recorded in Report No.:R1811A0536-R8 (IC ID: 10224A-201709BG96).



### 3.5 CONDUCTED SPURIOUS EMISSIONS

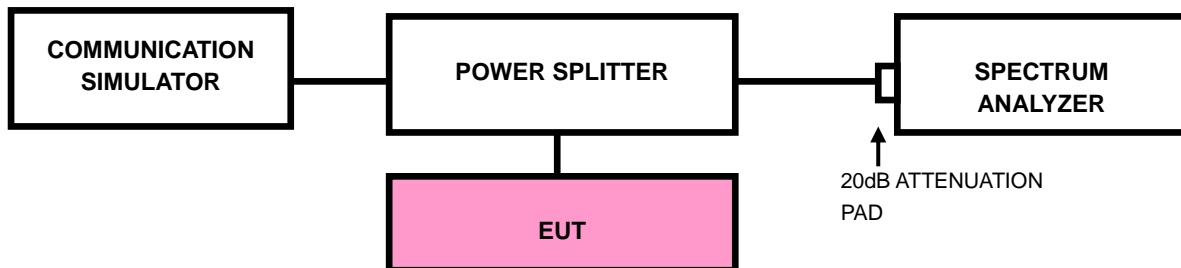
#### 3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 9 kHz to 19.1GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

#### 3.5.3 TEST SETUP



#### 3.5.4 TEST RESULTS

The test results was recorded in Report No.:R1811A0536-R8 (IC ID: 10224A-201709BG96).



### 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/1.5m 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.

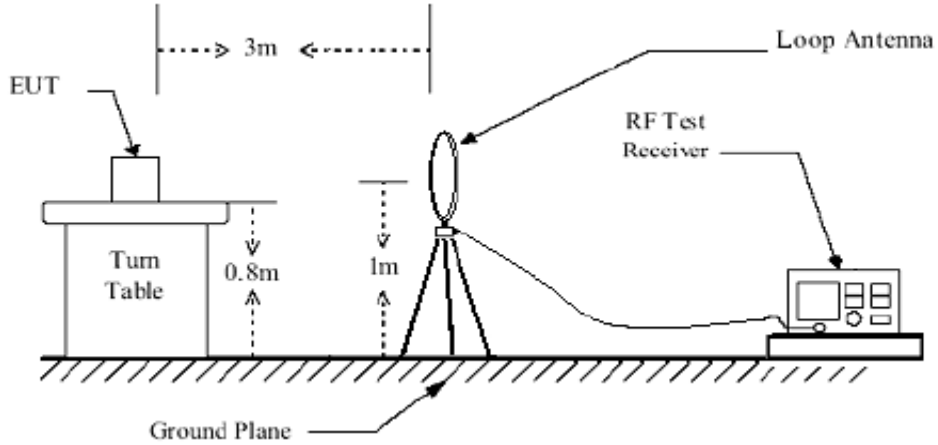
#### 3.6.3 DEVIATION FROM TEST STANDARD

No deviation

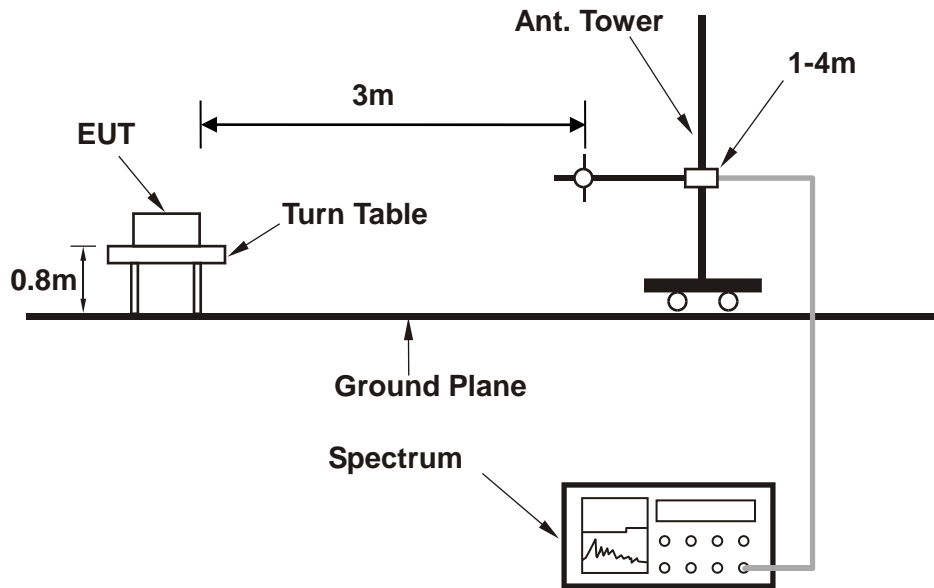


### 3.6.4 TEST SETUP

#### < Frequency Range below 30MHz >

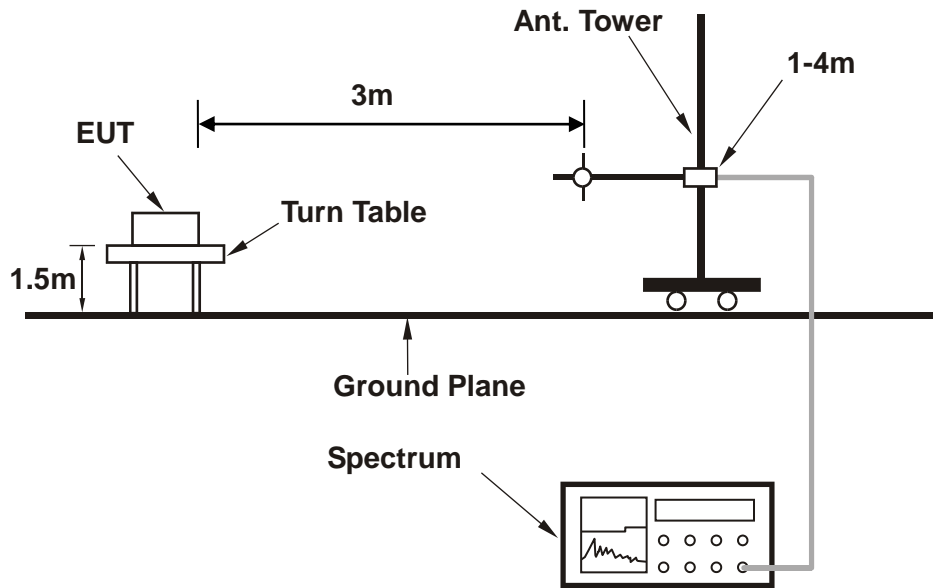


#### < Frequency Range 30MHz~1GHz >





< Frequency Range above 1GHz >



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





### 3.6.5 TEST RESULTS

#### BELOW 1GHz WORST-CASE DATA FROM ANT 0

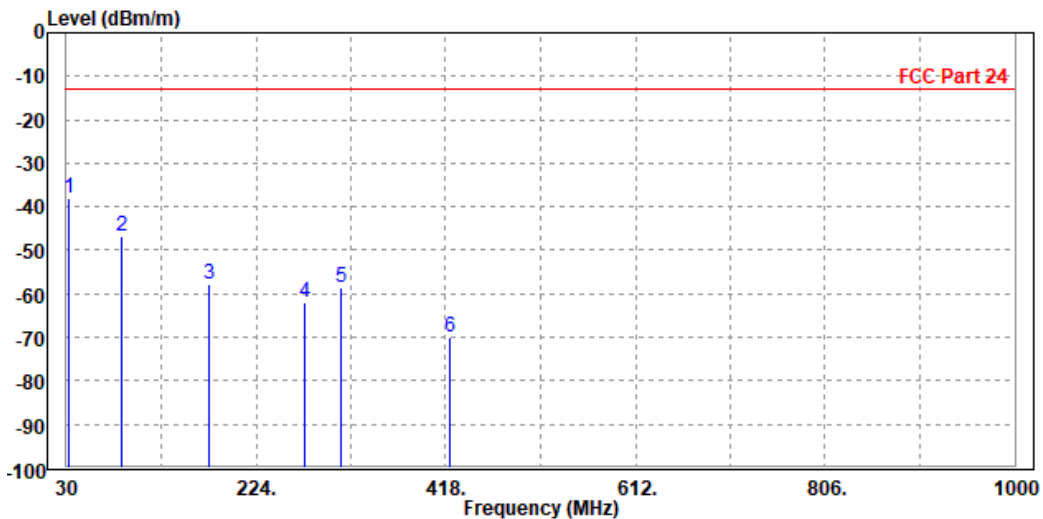
30 MHz – 1GHz data:

LTE Band 25

CHANNEL BANDWIDTH: 3Hz / QPSK

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V from som test board: V03
<b>TESTED BY</b>	Tony		
<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	31.940	-37.91	-55.38	-13.00	-24.91	17.47	Peak	Horizontal
2	86.260	-46.83	-39.56	-13.00	-33.83	-7.27	Peak	Horizontal
3	175.500	-57.94	-41.71	-13.00	-44.94	-16.23	Peak	Horizontal
4	274.440	-61.95	-49.00	-13.00	-48.95	-12.95	Peak	Horizontal
5	310.330	-58.70	-47.49	-13.00	-45.70	-11.21	Peak	Horizontal
6	422.850	-69.85	-62.11	-13.00	-56.85	-7.74	Peak	Horizontal



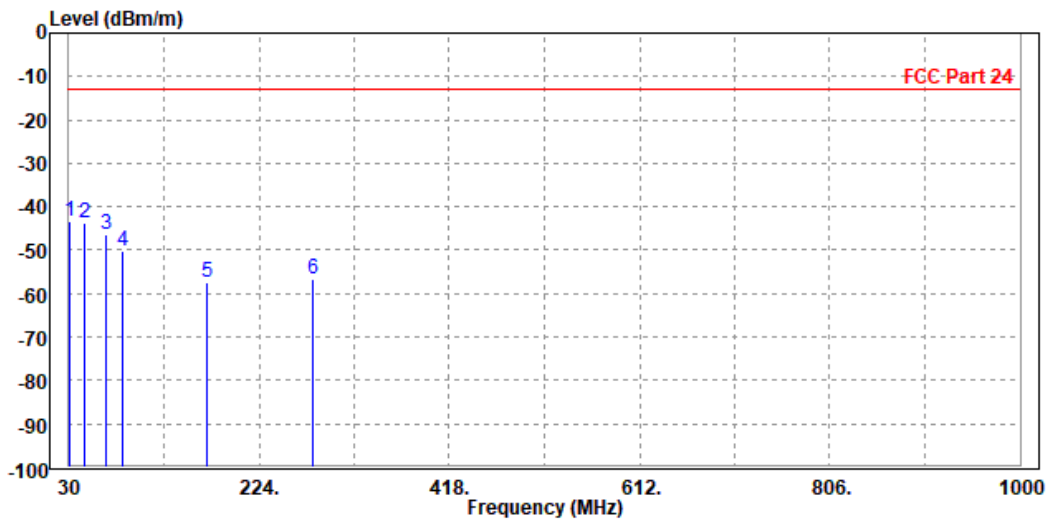


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VERITAS**

Test Report No.: IC200520W003-1

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<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	30.970	-43.19	-48.02	-13.00	-30.19	4.83	Peak	Vertical
2	46.490	-43.70	-41.09	-13.00	-30.70	-2.61	Peak	Vertical
3	67.830	-46.50	-32.79	-13.00	-33.50	-13.71	Peak	Vertical
4	85.290	-50.19	-41.03	-13.00	-37.19	-9.16	Peak	Vertical
5	171.620	-57.26	-44.89	-13.00	-44.26	-12.37	Peak	Vertical
6	278.320	-56.73	-47.48	-13.00	-43.73	-9.25	Peak	Vertical





ABOVE 1GHz DATA

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

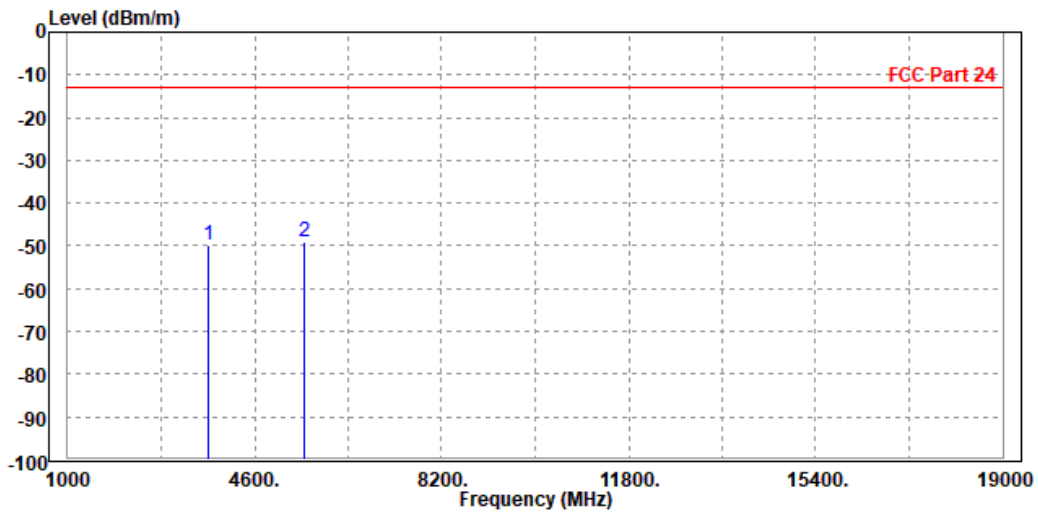
WORST-CASE DATA

PCS 1900:

CH 512

MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.8V FROM SOM TEST BOARD : V03
TESTED BY	Tony		
<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	3700.000	-49.81	-58.60	-13.00	-36.81	8.79	Peak	Horizontal
2 PP	5550.600	-49.12	-59.31	-13.00	-36.12	10.19	Peak	Horizontal



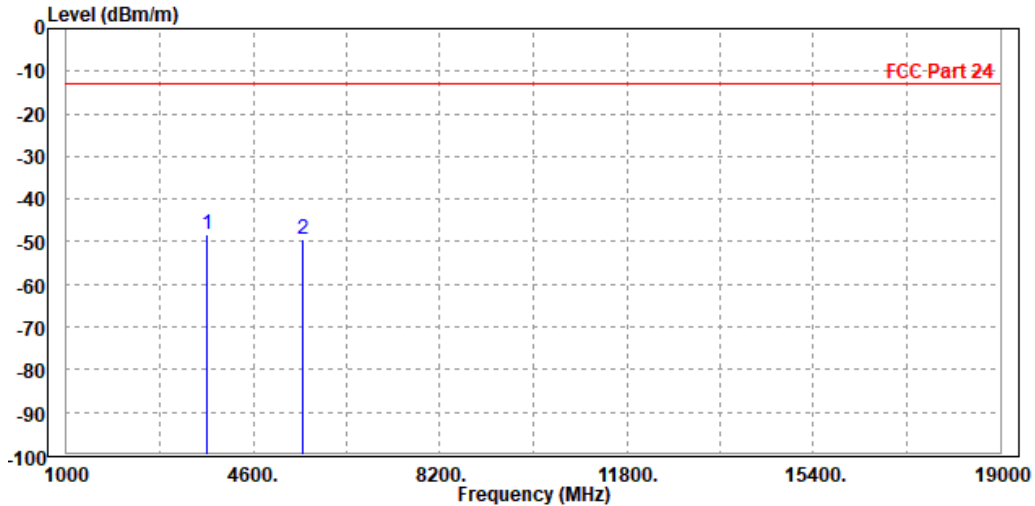


BUREAU VERITAS

Test Report No.: IC200520W003-1

MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.8V FROM SOM TEST BOARD: V03
TESTED BY	Tony		
<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 3700.000	-48.40	-57.65	-13.00	-35.40	9.25	Peak	Vertical
2	5550.600	-49.41	-59.31	-13.00	-36.41	9.90	Peak	Vertical

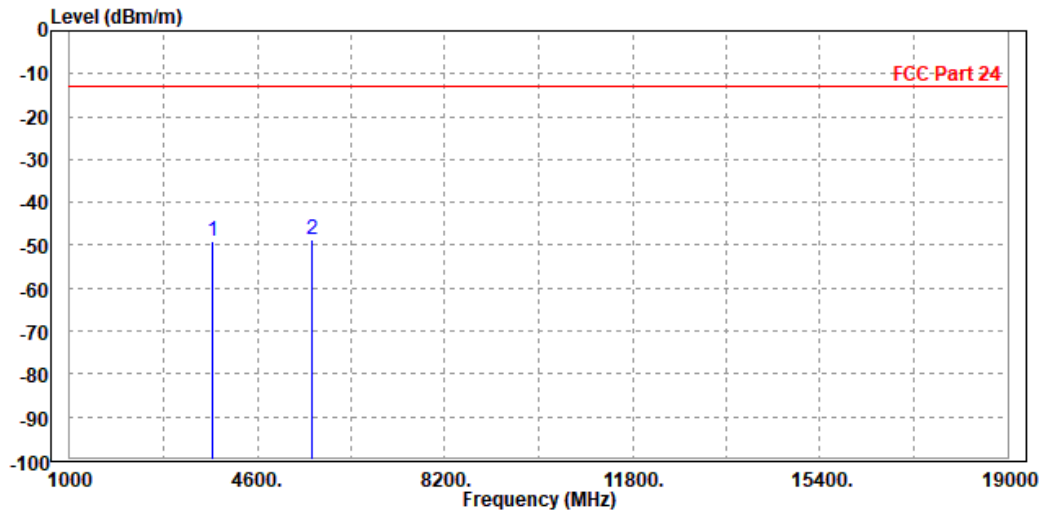




CH 661

<b>MODE</b>	TX channel 661	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD : V03
<b>TESTED BY</b>	Tony		
<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	3754.000	-49.10	-57.94	-13.00	-36.10	8.84	Peak	Horizontal
2 PP	5640.000	-48.67	-59.15	-13.00	-35.67	10.48	Peak	Horizontal



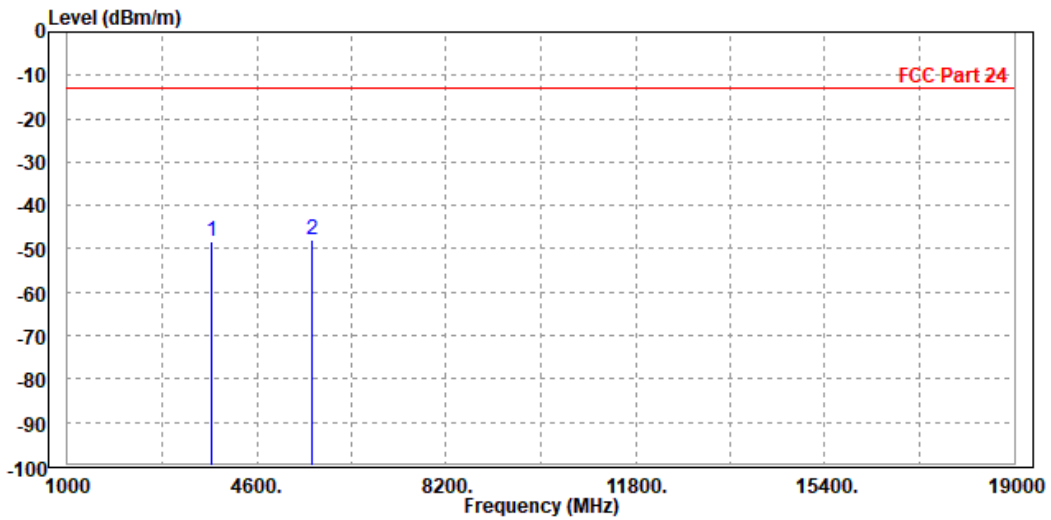


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VERITAS**

Test Report No.: IC200520W003-1

<b>MODE</b>	TX channel 661	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3754.000	-48.41	-57.68	-13.00	-35.41	9.27 Peak	Vertical
2 PP	5640.000	-47.77	-58.02	-13.00	-34.77	10.25 Peak	Vertical

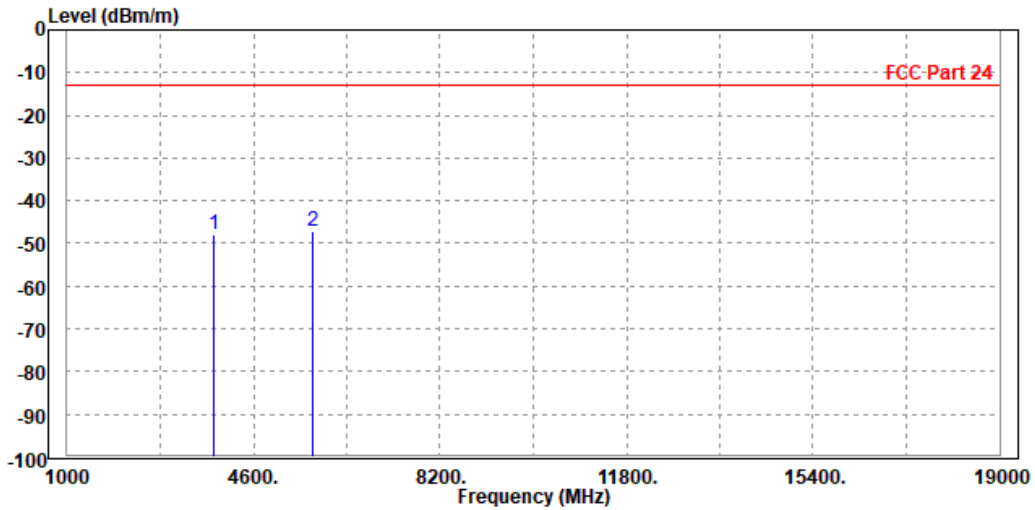




CH 810

MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.8V FROM SOM TEST BOARD: V03
TESTED BY	Tony		
<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	3826.000	-47.74	-56.66	-13.00	-34.74	8.92	Peak	Horizontal
2 PP	5729.400	-47.00	-57.78	-13.00	-34.00	10.78	Peak	Horizontal



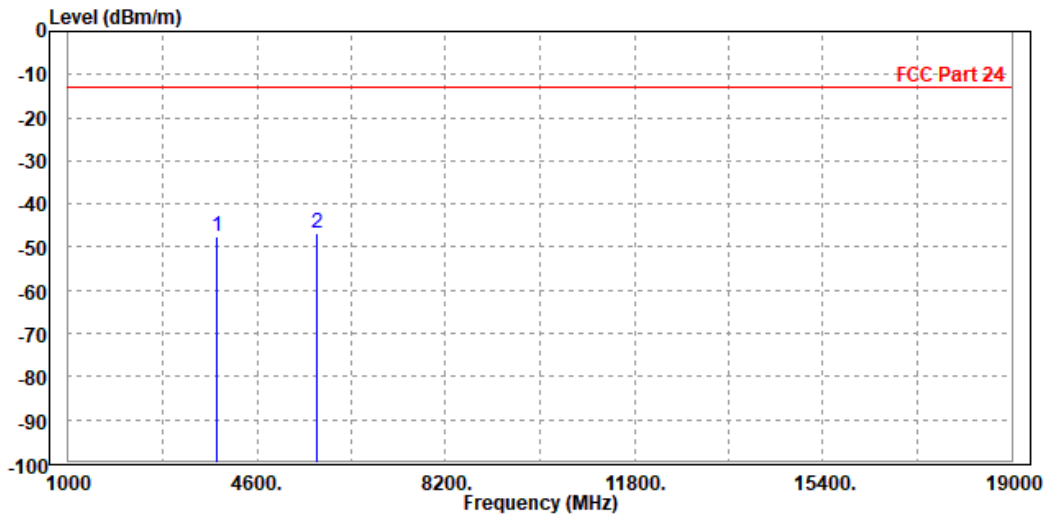


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VERITAS**

Test Report No.: IC200520W003-1

<b>MODE</b>	TX channel 810	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<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	3826.000	-47.71	-57.00	-13.00	-34.71	9.29	Peak	Vertical
2 PP	5729.400	-46.59	-57.18	-13.00	-33.59	10.59	Peak	Vertical







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VERITAS**

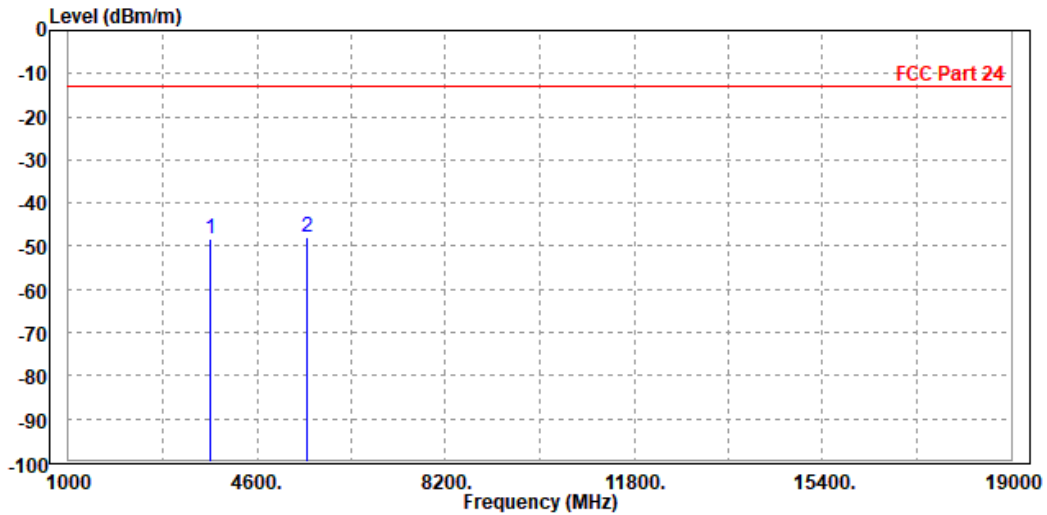
Test Report No.: IC200520W003-1

EDGE 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>	DC 3.8V from som test board: V03
<b>TESTED BY</b>	Tony Xiong		
<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	3700.000	-48.36	-57.15	-13.00	-35.36	8.79	Peak	Horizontal
2 PP	5550.600	-47.97	-58.16	-13.00	-34.97	10.19	Peak	Horizontal



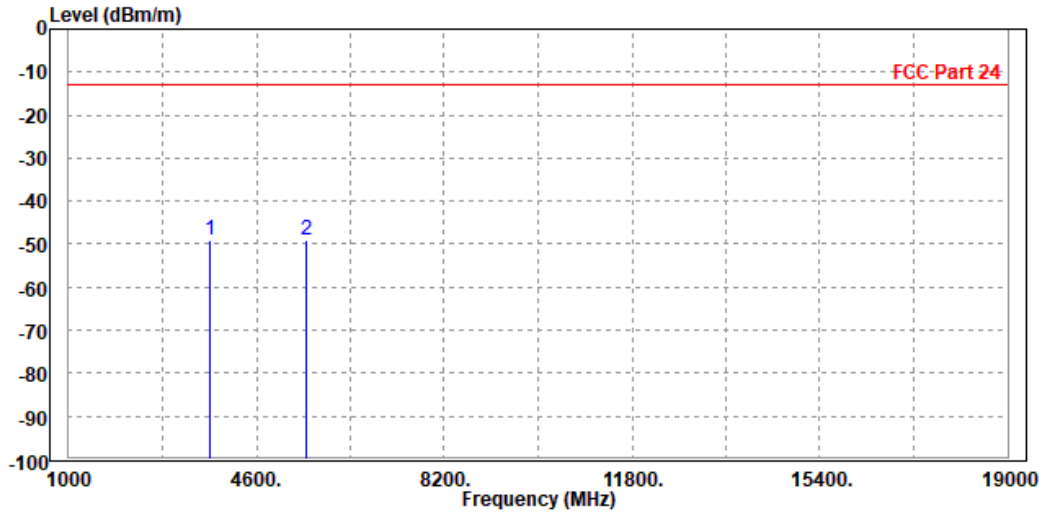


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VERITAS**

Test Report No.: IC200520W003-1

<b>MODE</b>	TX channel 512	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V from som test board: V03
<b>TESTED BY</b>	Tony Xiong		
<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 3700.000	-48.89	-58.14	-13.00	-35.89	9.25	Peak	Vertical
2	5550.600	-49.10	-59.00	-13.00	-36.10	9.90	Peak	Vertical





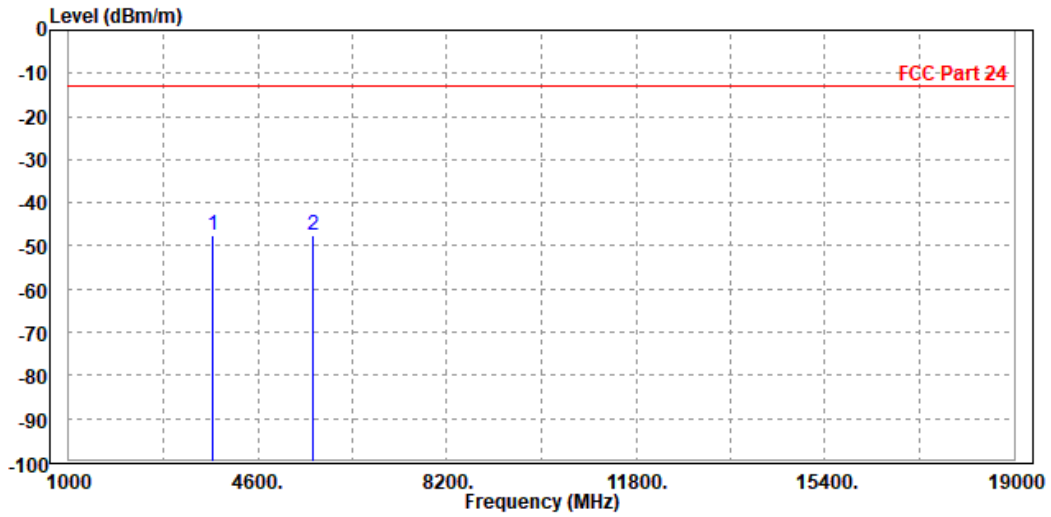
**BUREAU  
VERITAS**

Test Report No.: IC200520W003-1

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>	DC 3.8V from som test board: V03
<b>TESTED BY</b>	Tony Xiong		
<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	3754.000	-47.37	-56.21	-13.00	-34.37	8.84	Peak	Horizontal
2	5640.000	-47.64	-58.12	-13.00	-34.64	10.48	Peak	Horizontal



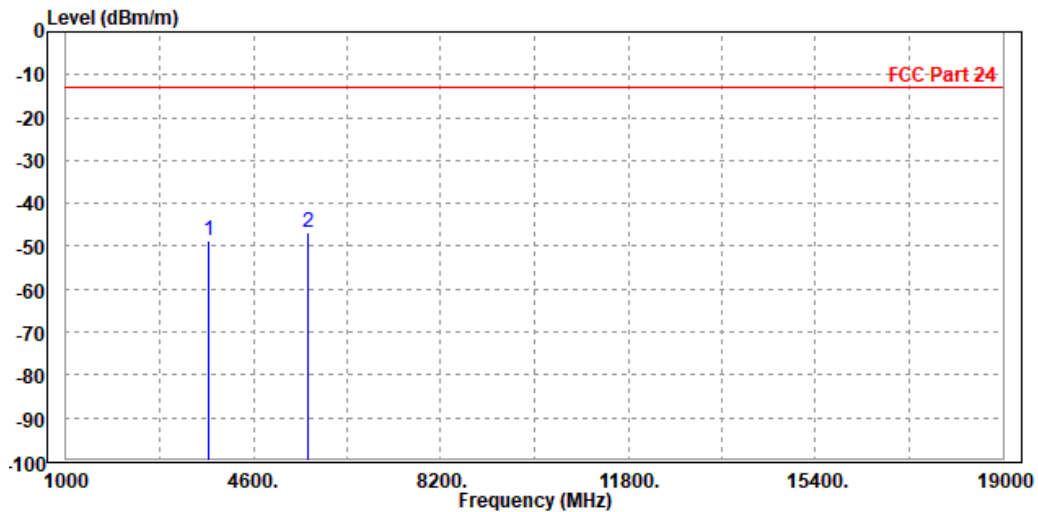


BUREAU VERITAS

Test Report No.: IC200520W003-1

MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.8V from som test board: V03
TESTED BY	Tony Xiong		
<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	3754.000	-48.85	-58.12	-13.00	-35.85	9.27	Peak	Vertical
2 PP	5640.000	-46.86	-57.11	-13.00	-33.86	10.25	Peak	Vertical

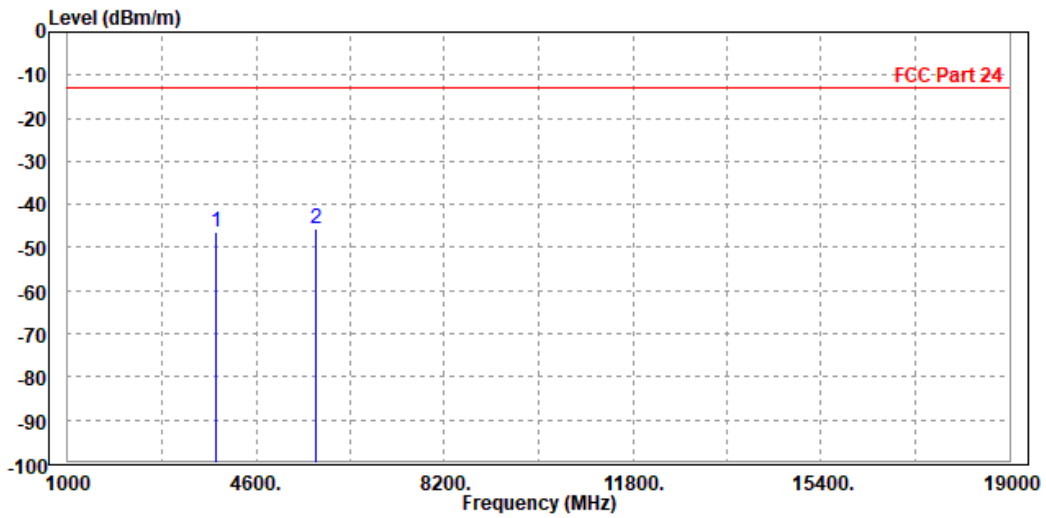




**CH 810**

<b>MODE</b>	TX channel 810	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V from som test board: V03
<b>TESTED BY</b>	Tony Xiong		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

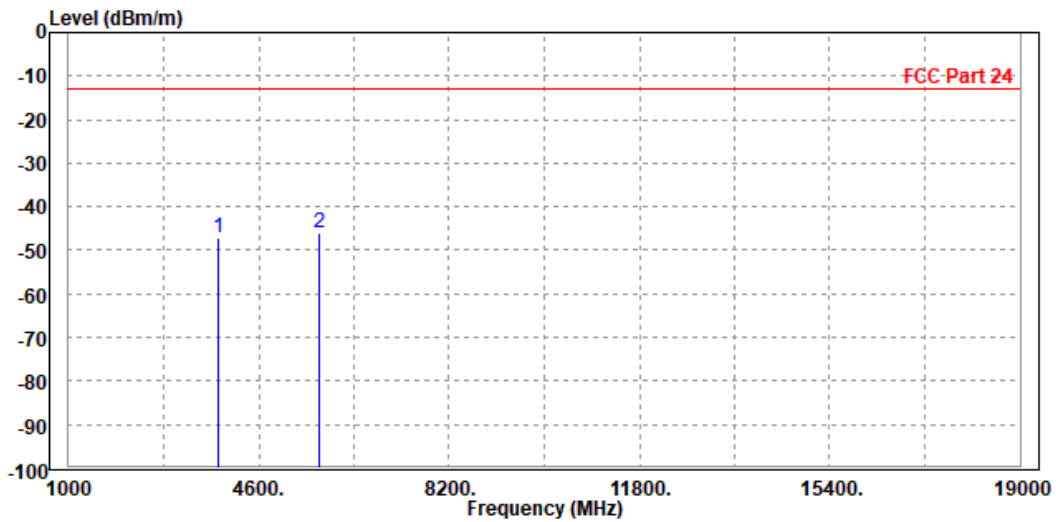
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3826.000	-46.21	-55.13	-13.00	-33.21	8.92	Peak	Horizontal
2 PP	5729.400	-45.72	-56.50	-13.00	-32.72	10.78	Peak	Horizontal





<b>MODE</b>	TX channel 810	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V from som test board: V03
<b>TESTED BY</b>	Tony Xiong		
<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	3826.000	-47.31	-56.60	-13.00	-34.31	9.29	Peak	Vertical
2 PP	5729.400	-45.93	-56.52	-13.00	-32.93	10.59	Peak	Vertical





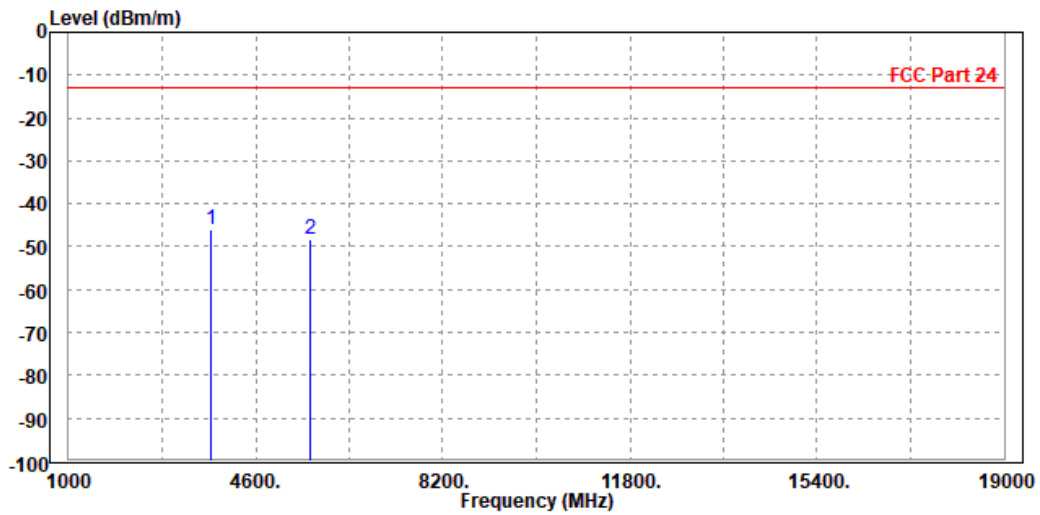
Test Report No.: IC200520W003-1

LTE Band 2

CHANNEL BANDWIDTH: 1.4MHz / 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>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<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 3754.000	-46.02	-54.86	-13.00	-33.02	8.84	Peak	Horizontal
2	5644.000	-48.41	-58.91	-13.00	-35.41	10.50	Peak	Horizontal



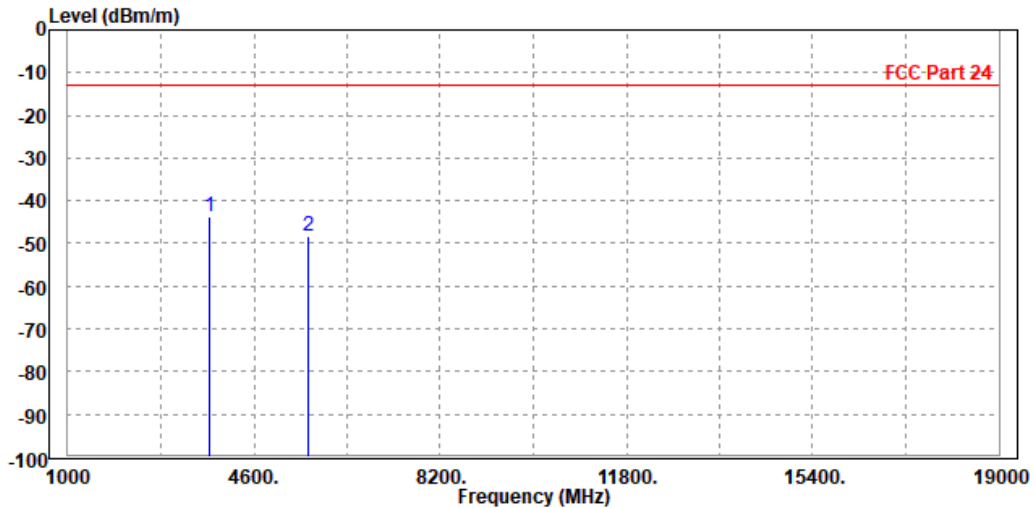


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VERITAS**

Test Report No.: IC200520W003-1

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<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 3754.000	-43.69	-52.96	-13.00	-30.69	9.27	Peak	Vertical
2	5640.000	-48.39	-58.64	-13.00	-35.39	10.25	Peak	Vertical



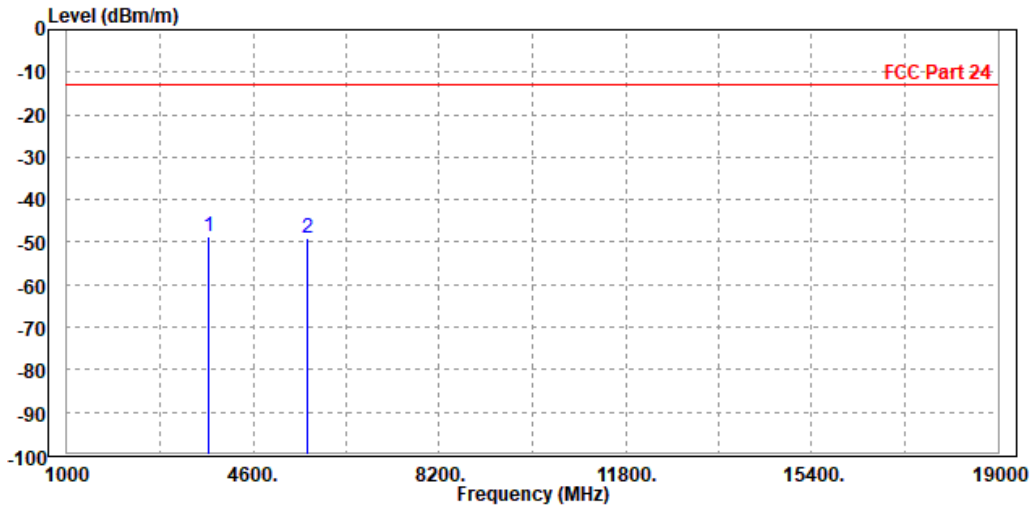




**CHANNEL BANDWIDTH: 3MHz / QPSK**

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

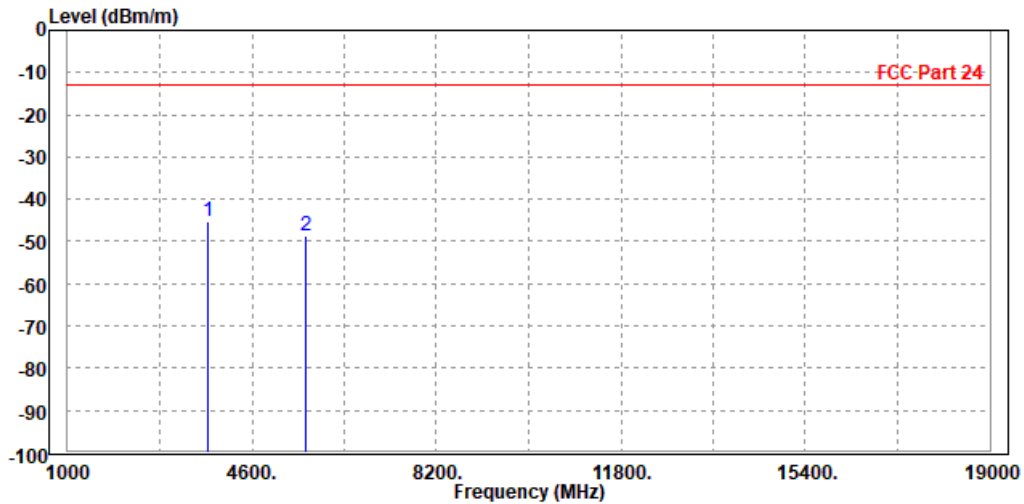
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3754.000	-48.62	-57.46	-13.00	-35.62	8.84	Peak	Horizontal
2	5640.000	-49.00	-59.48	-13.00	-36.00	10.48	Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.8V FROM SOM TEST BOARD: V03
TESTED BY	Tony		
<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 3754.000	-45.25	-54.52	-13.00	-32.25	9.27	Peak	Vertical
2	5640.000	-48.60	-58.85	-13.00	-35.60	10.25	Peak	Vertical





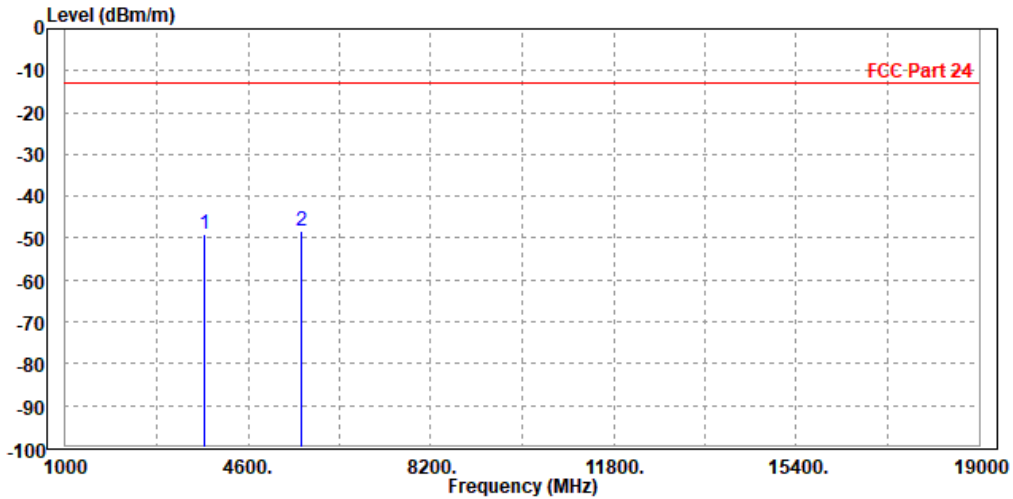
**BUREAU  
VERITAS**

Test Report No.: IC200520W003-1

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>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

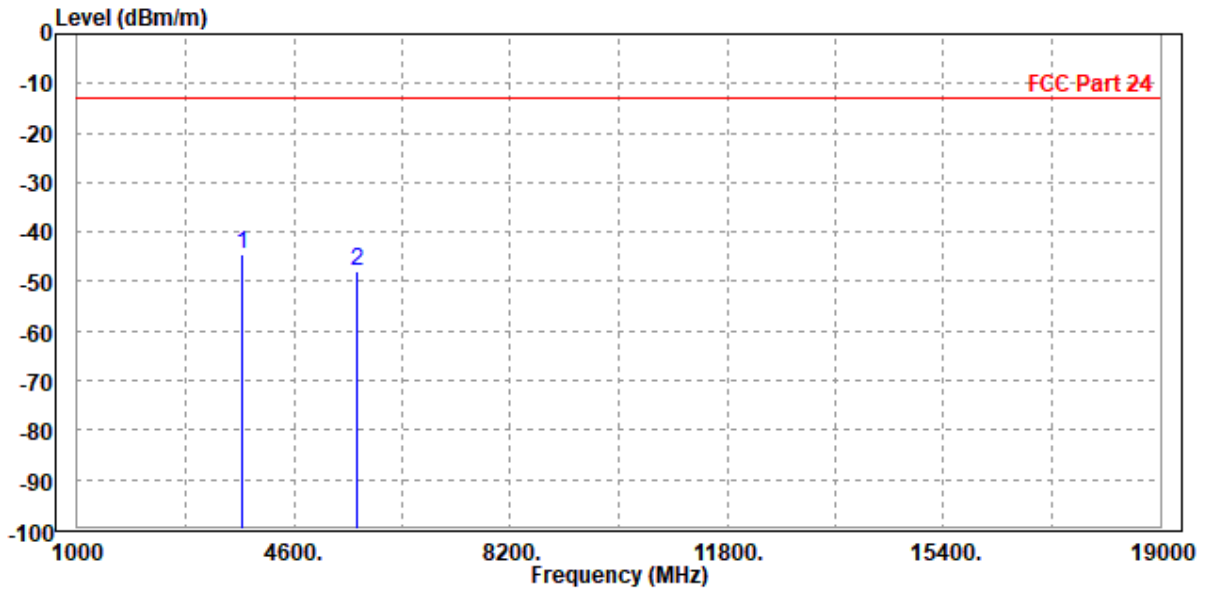
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3754.000	-48.88	-57.72	-13.00	-35.88	8.84	Peak	Horizontal
2 PP	5640.000	-48.47	-58.95	-13.00	-35.47	10.48	Peak	Horizontal





<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<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	3754.000	-44.35	-53.62	-13.00	-31.35	9.27	Peak	Vertical
2	5640.000	-47.97	-58.22	-13.00	-34.97	10.25	Peak	Vertical

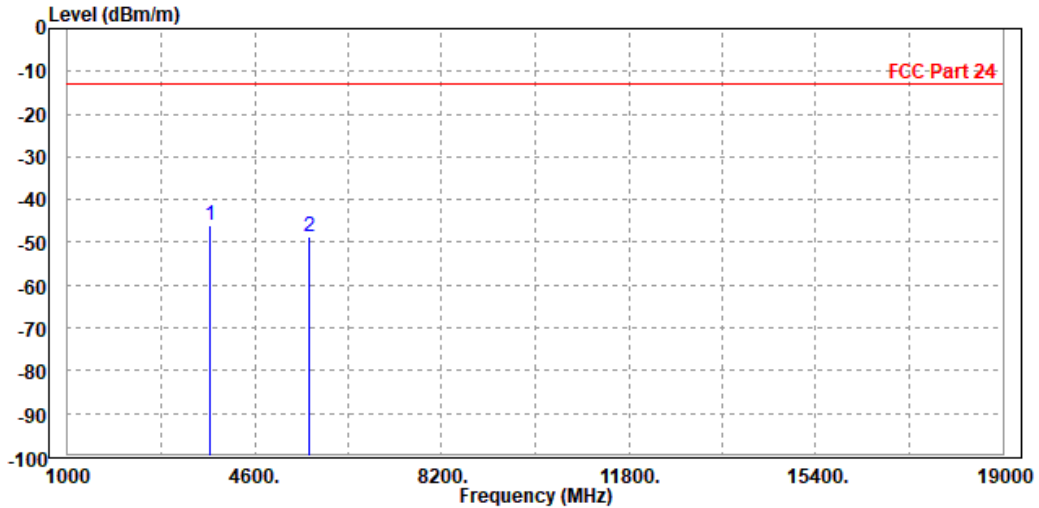




CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.8V FROM SOM TEST BOARD: V03
TESTED BY	Tony		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

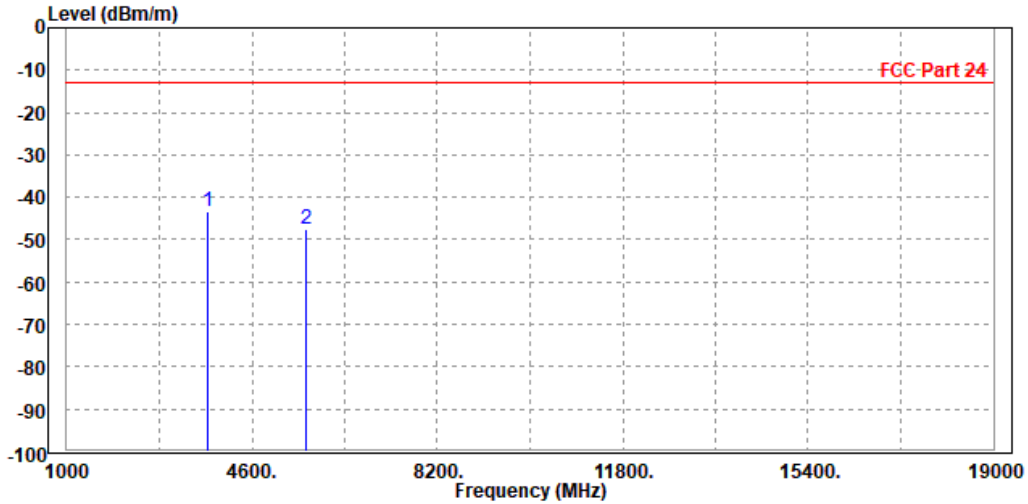
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3754.000	-45.85	-54.69	-13.00	-32.85	8.84	Peak	Horizontal
2	5640.000	-48.65	-59.13	-13.00	-35.65	10.48	Peak	Horizontal





<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<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 3754.000	-43.32	-52.59	-13.00	-30.32	9.27	Peak	Vertical
2	5640.000	-47.71	-57.96	-13.00	-34.71	10.25	Peak	Vertical





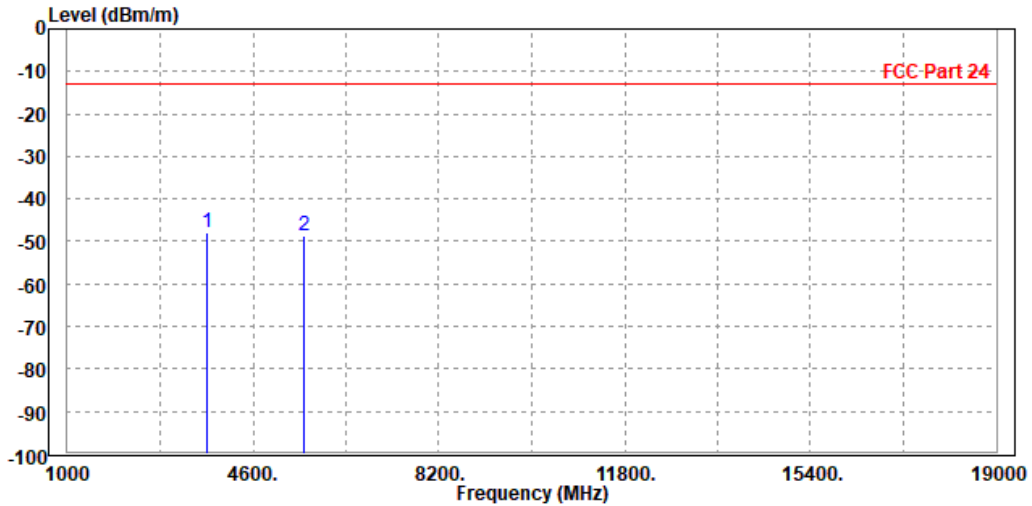
**BUREAU  
VERITAS**

Test Report No.: IC200520W003-1

**CHANNEL BANDWIDTH: 15MHz / QPSK  
CH 18675**

<b>MODE</b>	TX channel 18675	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<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 3718.000	-47.84	-56.65	-13.00	-34.84	8.81	Peak	Horizontal
2	5572.500	-48.77	-59.03	-13.00	-35.77	10.26	Peak	Horizontal



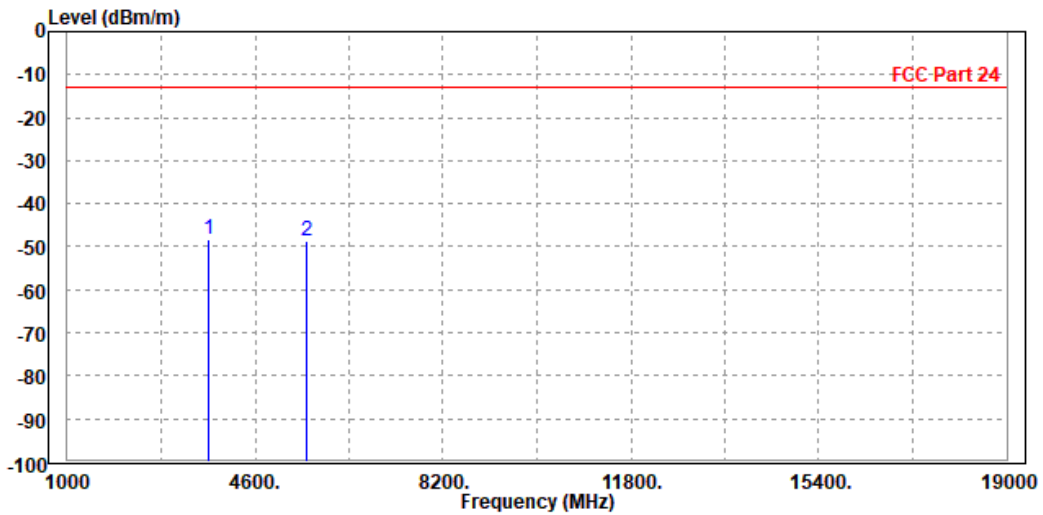


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VERITAS**

Test Report No.: IC200520W003-1

<b>MODE</b>	TX channel 18675	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 3718.000	-48.48	-57.74	-13.00	-35.48	9.26	Peak	Vertical
2 5572.500	-48.73	-58.72	-13.00	-35.73	9.99	Peak	Vertical







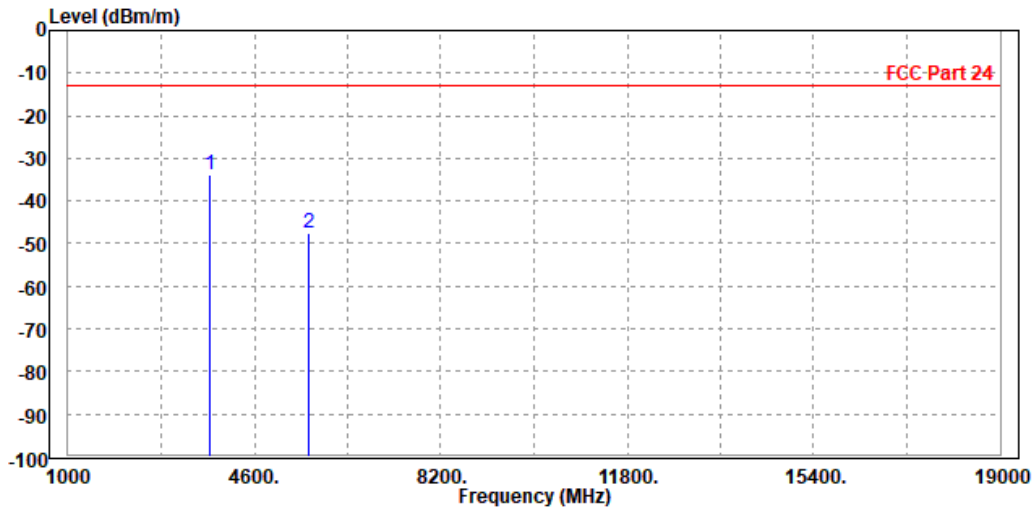
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VERITAS**

Test Report No.: IC200520W003-1

CH 18900

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<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	3754.000	-33.67	-42.51	-13.00	-20.67	8.84	Peak	Horizontal
2	5640.000	-47.70	-58.18	-13.00	-34.70	10.48	Peak	Horizontal



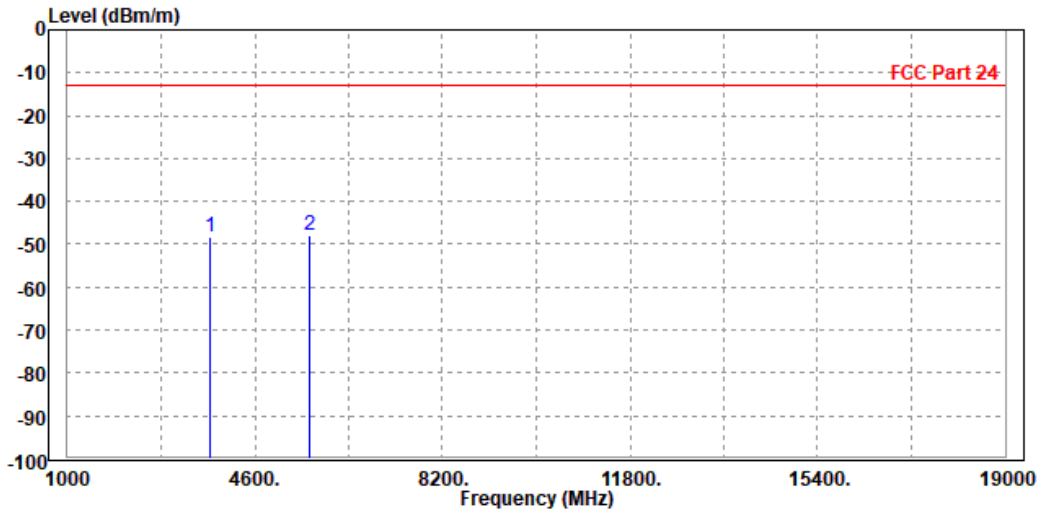


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Test Report No.: IC200520W003-1

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.8V FROM SOM TEST BOARD: V03
TESTED BY	Tony		
<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	3754.000	-48.16	-57.43	-13.00	-35.16	9.27	Peak	Vertical
2 PP	5640.000	-48.08	-58.33	-13.00	-35.08	10.25	Peak	Vertical





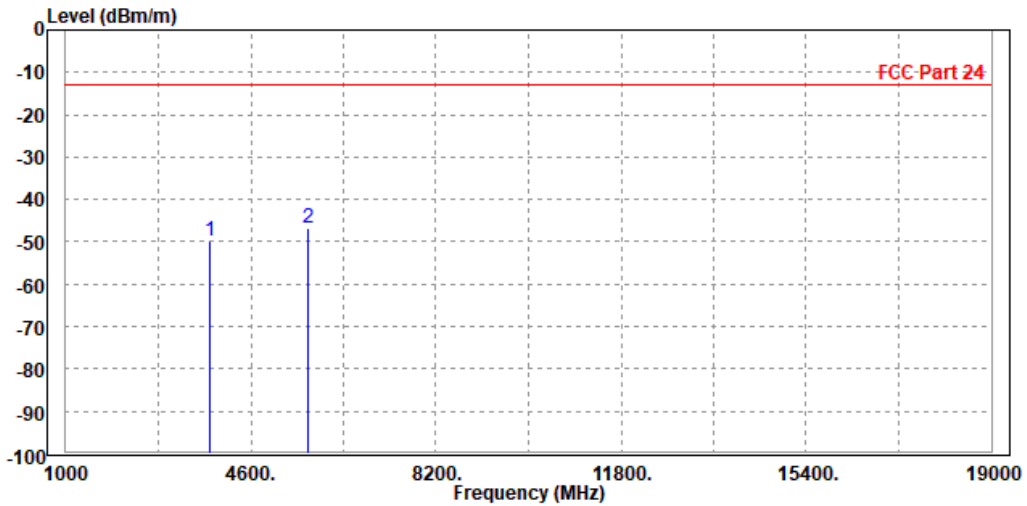
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VERITAS**

Test Report No.: IC200520W003-1

CH 19125

<b>MODE</b>	TX channel 19125	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

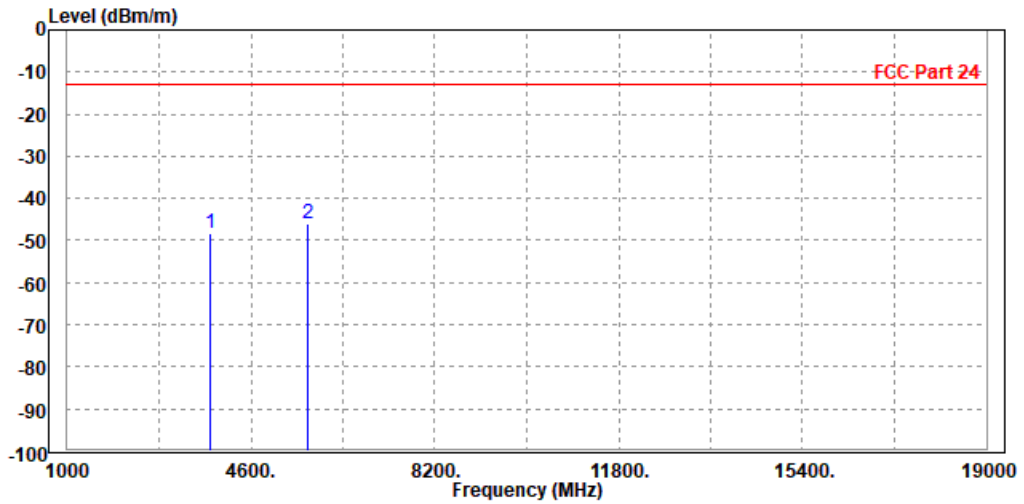
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3808.000	-49.79	-58.69	-13.00	-36.79	8.90	Peak	Horizontal
2 PP	5707.500	-46.86	-57.57	-13.00	-33.86	10.71	Peak	Horizontal





MODE	TX channel 19125	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.8V FROM SOM TEST BOARD: V03
TESTED BY	Tony		
<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	3808.000	-48.40	-57.68	-13.00	-35.40	9.28	Peak	Vertical
2 PP	5707.500	-46.11	-56.62	-13.00	-33.11	10.51	Peak	Vertical

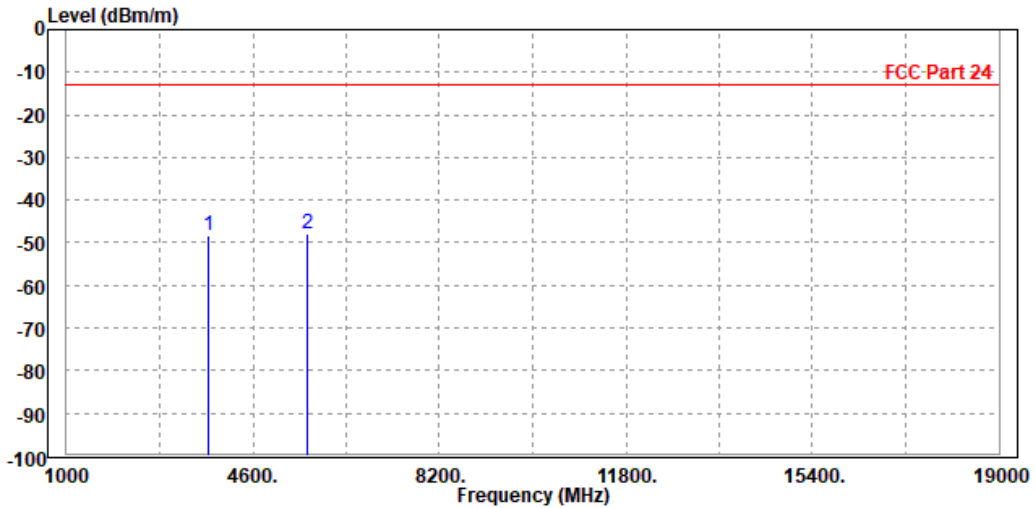




CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.8V FROM SOM TEST BOARD: V03
TESTED BY	Tony		
<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	3754.000	-48.11	-56.95	-13.00	-35.11	8.84	Peak	Horizontal
2 PP	5640.000	-48.00	-58.48	-13.00	-35.00	10.48	Peak	Horizontal



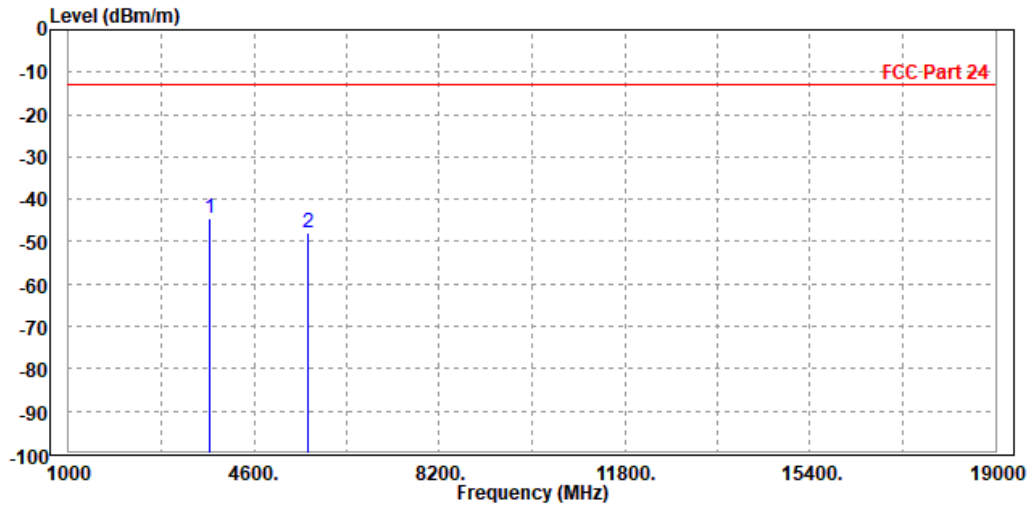


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VERITAS**

Test Report No.: IC200520W003-1

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony		
<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	3754.000	-44.52	-53.79	-13.00	-31.52	9.27	Peak	Vertical
2	5640.000	-47.99	-58.24	-13.00	-34.99	10.25	Peak	Vertical



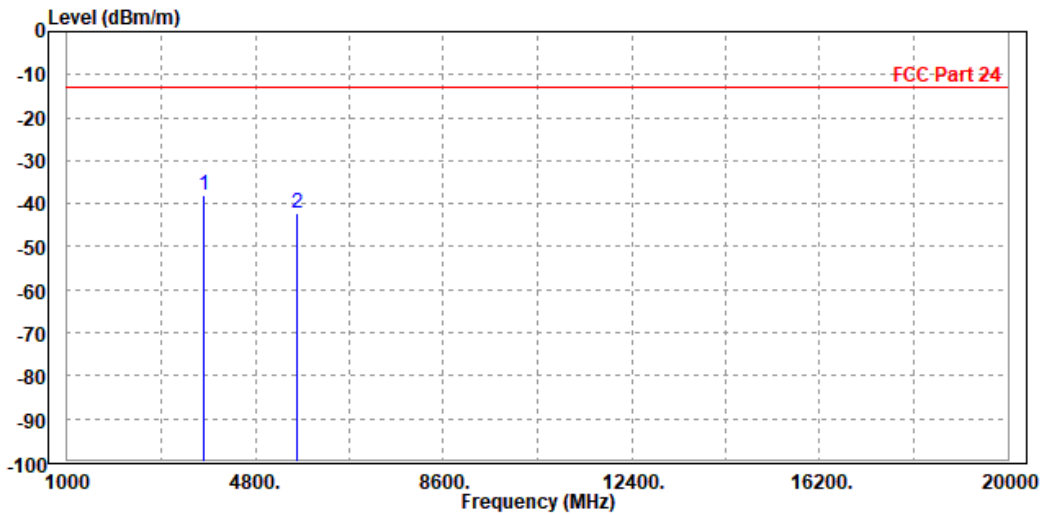


**LTE Band 25**

**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>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

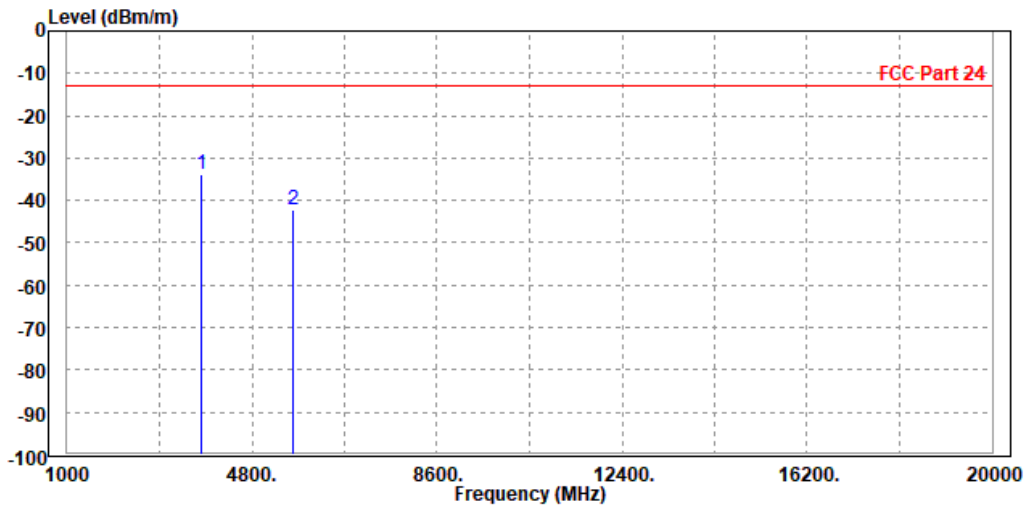
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3765.000	-37.91	-46.77	-13.00	-24.91	8.86	Peak	Horizontal
2	5654.000	-42.22	-52.75	-13.00	-29.22	10.53	Peak	Horizontal





<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<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	-33.98	-43.25	-13.00	-20.98	9.27	Peak	Vertical
2	5647.500	-42.11	-52.39	-13.00	-29.11	10.28	Peak	Vertical





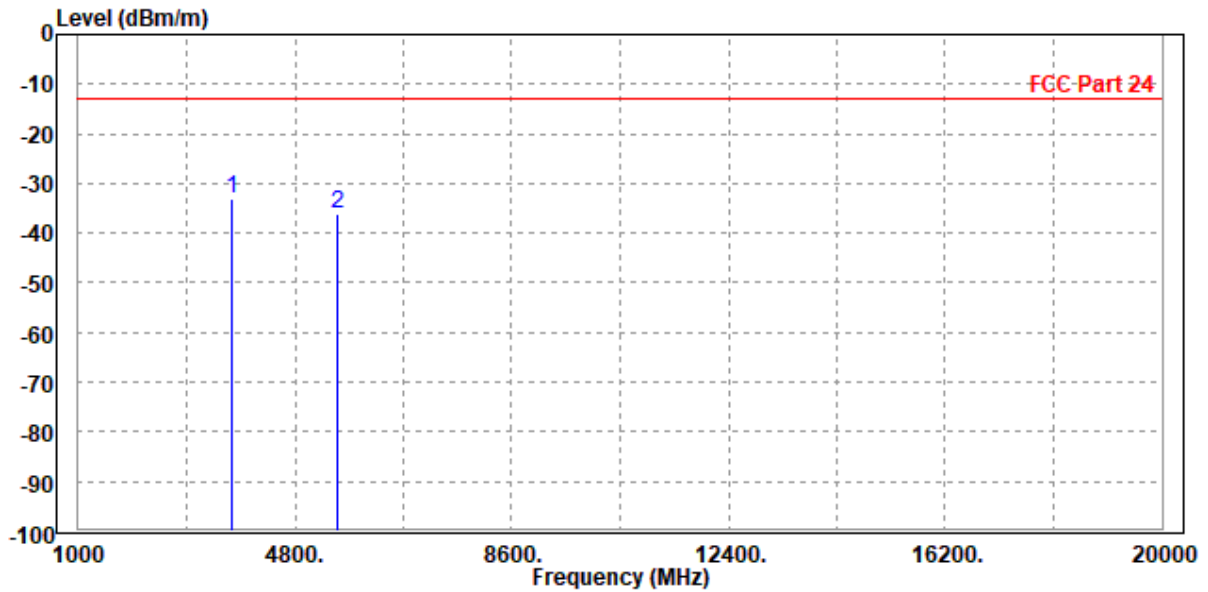


CHANNEL BANDWIDTH: 3MHz / QPSK

CH 26055

MODE	TX channel 26055	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.8V FROM SOM TEST BOARD: V03
TESTED BY	Tony Xiong		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 3704.000	-33.17	-41.96	-13.00	-20.17	8.79	Peak	Horizontal
2 5554.500	-36.04	-46.24	-13.00	-23.04	10.20	Peak	Horizontal



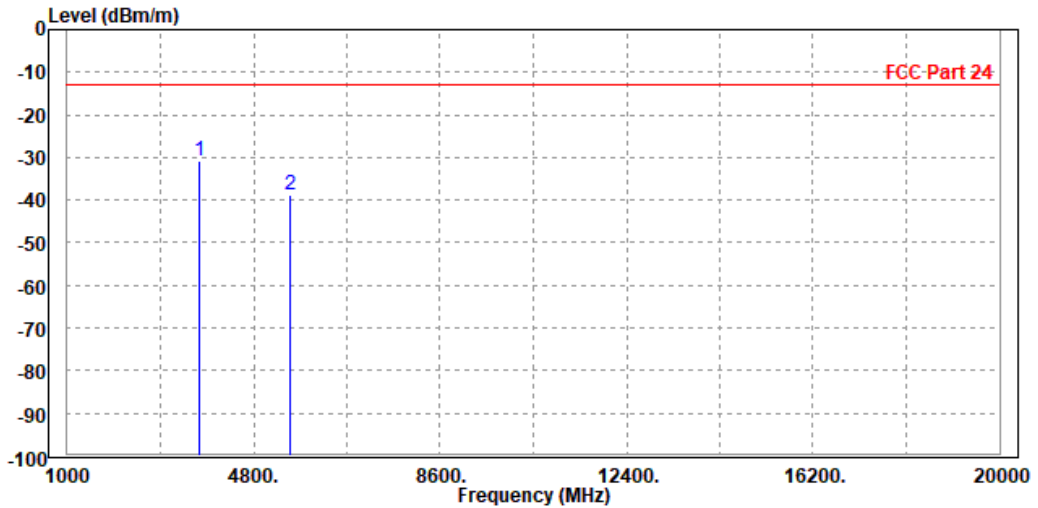


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Test Report No.: IC200520W003-1

<b>MODE</b>	TX channel 26055	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<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 3703.000	-30.80	-40.05	-13.00	-17.80	9.25	Peak	Vertical
2	5550.000	-38.80	-48.70	-13.00	-25.80	9.90	Peak	Vertical

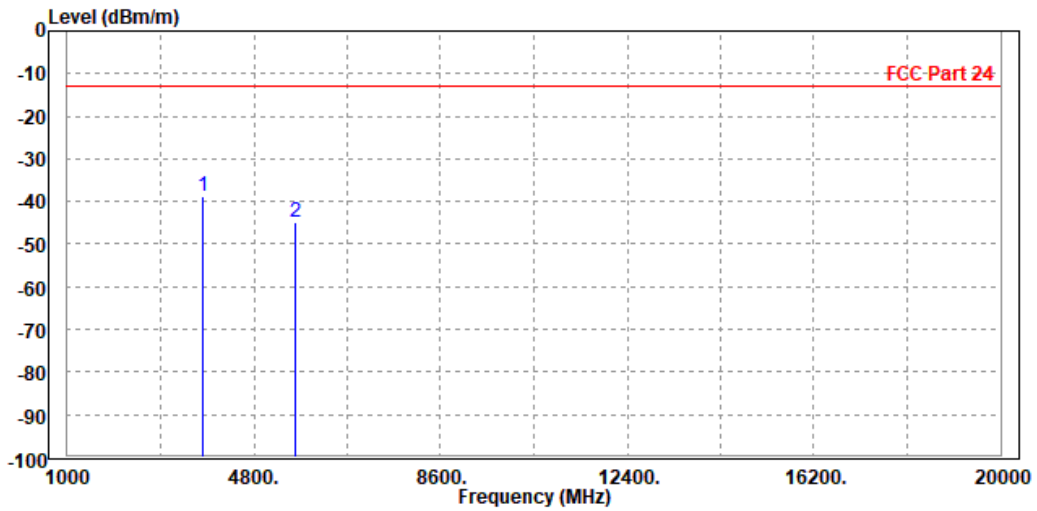




CH 26365

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	Pol/Phase
1 PP 3756.000	-38.70	-47.55	-13.00	-25.70	8.85	Peak Horizontal
2 5647.500	-45.05	-55.56	-13.00	-32.05	10.51	Peak Horizontal



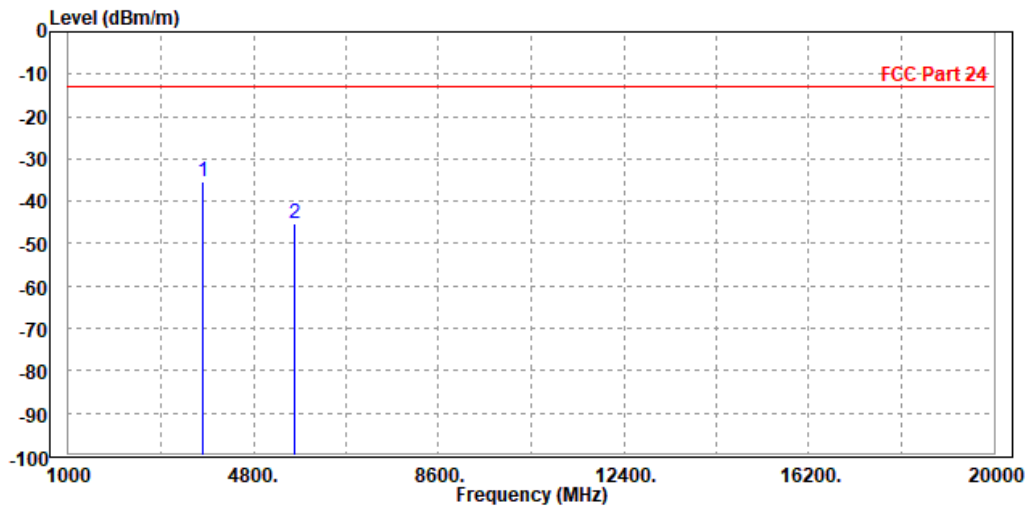


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VERITAS**

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<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<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 3765.000	-35.34	-44.61	-13.00	-22.34	9.27	Peak	Vertical
2	5654.000	-45.19	-55.49	-13.00	-32.19	10.30	Peak	Vertical





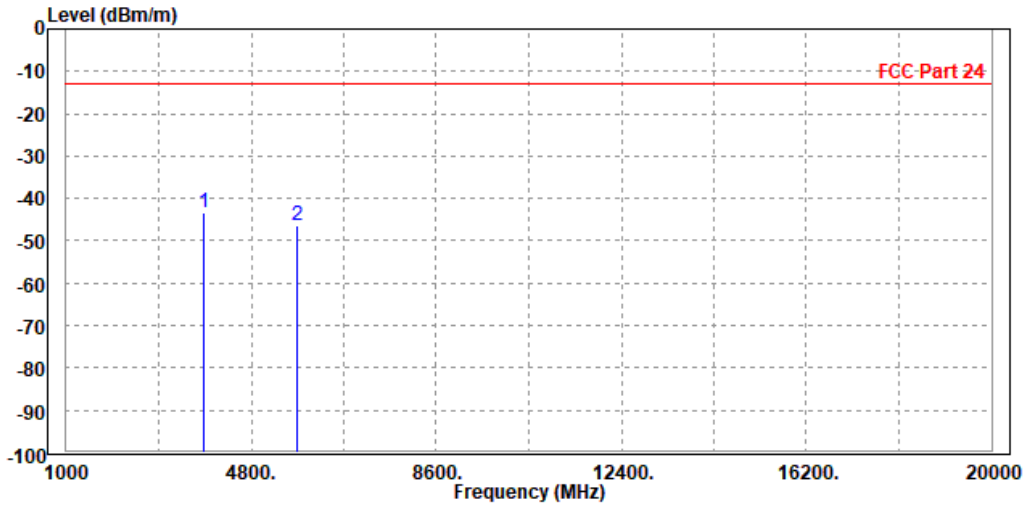
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VERITAS**

Test Report No.: IC200520W003-1

CH 26675

<b>MODE</b>	TX channel 26675	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

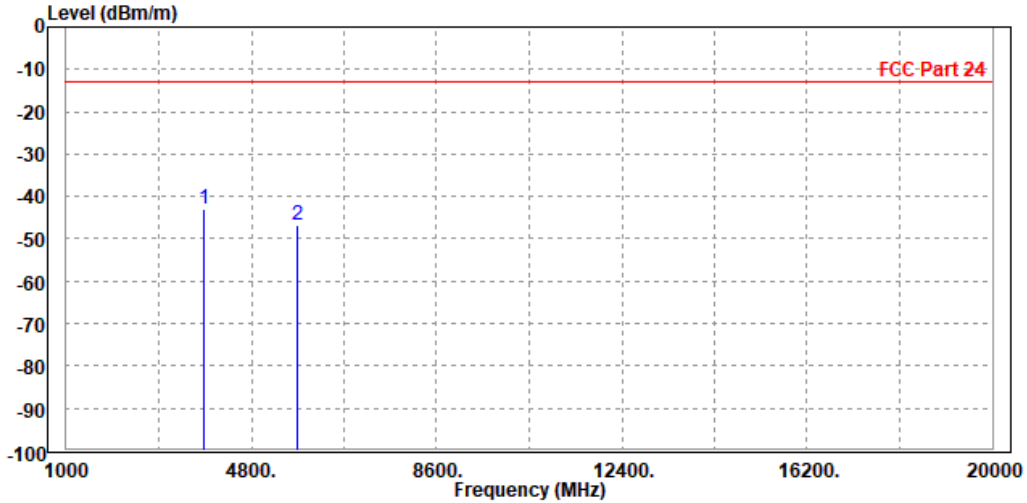
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3827.000	-43.19	-52.11	-13.00	-30.19	8.92	Peak	Horizontal
2	5732.000	-46.20	-56.99	-13.00	-33.20	10.79	Peak	Horizontal





<b>MODE</b>	TX channel 26675	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<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	3834.000	-43.08	-52.37	-13.00	-30.08	9.29	Peak	Vertical
2	5740.500	-46.86	-57.50	-13.00	-33.86	10.64	Peak	Vertical

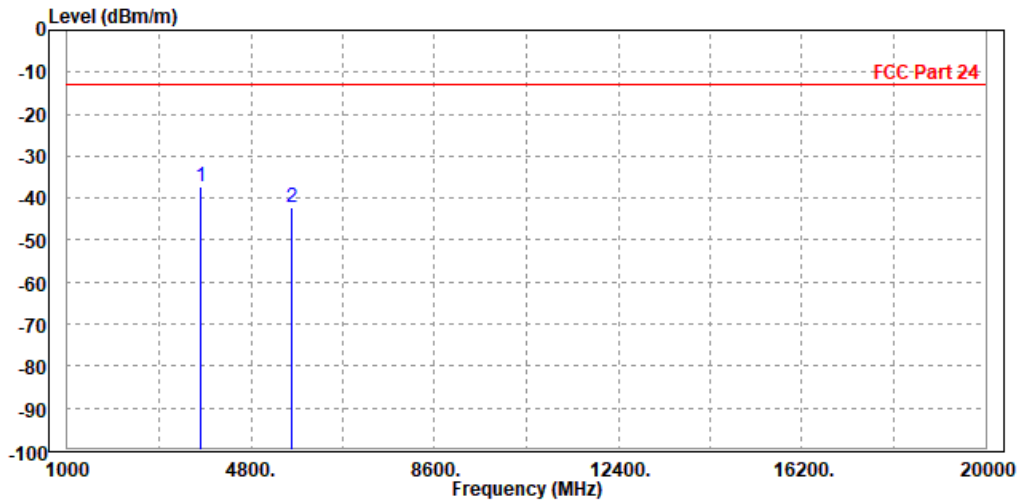




CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.8V FROM SOM TEST BOARD: V03
TESTED BY	Tony Xiong		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

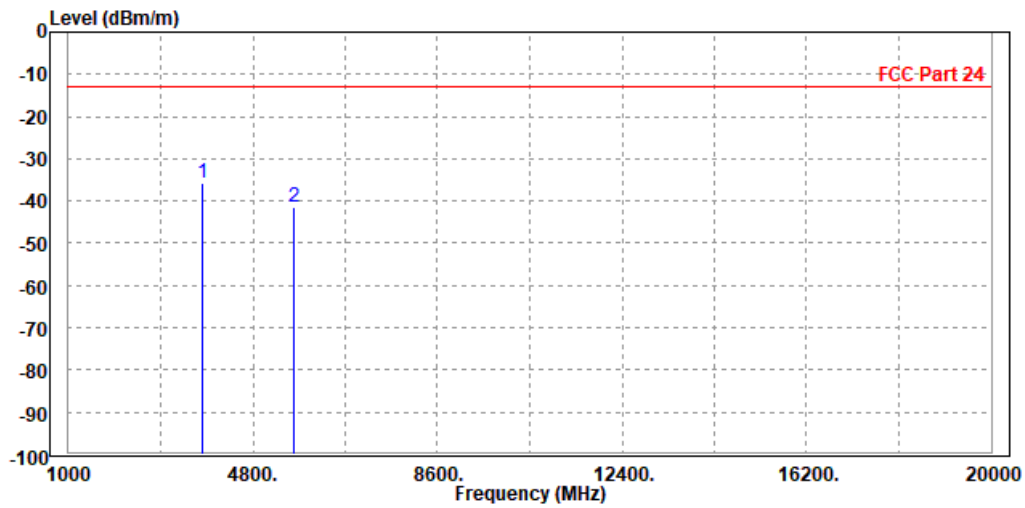
	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 3765.000	-37.14	-46.00	-13.00	-24.14	8.86	Peak	Horizontal
2 5654.000	-42.05	-52.58	-13.00	-29.05	10.53	Peak	Horizontal





<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<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	-35.82	-45.09	-13.00	-22.82	9.27	Peak	Vertical
2	5647.500	-41.63	-51.91	-13.00	-28.63	10.28	Peak	Vertical



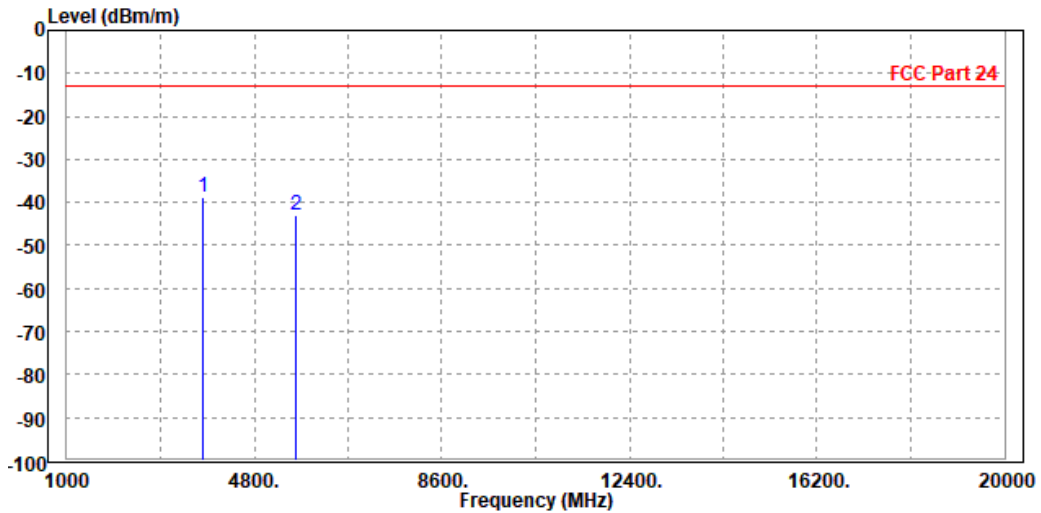




**CHANNEL BANDWIDTH: 10MHz / QPSK**

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 3765.000	-38.93	-47.79	-13.00	-25.93	8.86	Peak	Horizontal
2 5654.000	-43.03	-53.56	-13.00	-30.03	10.53	Peak	Horizontal



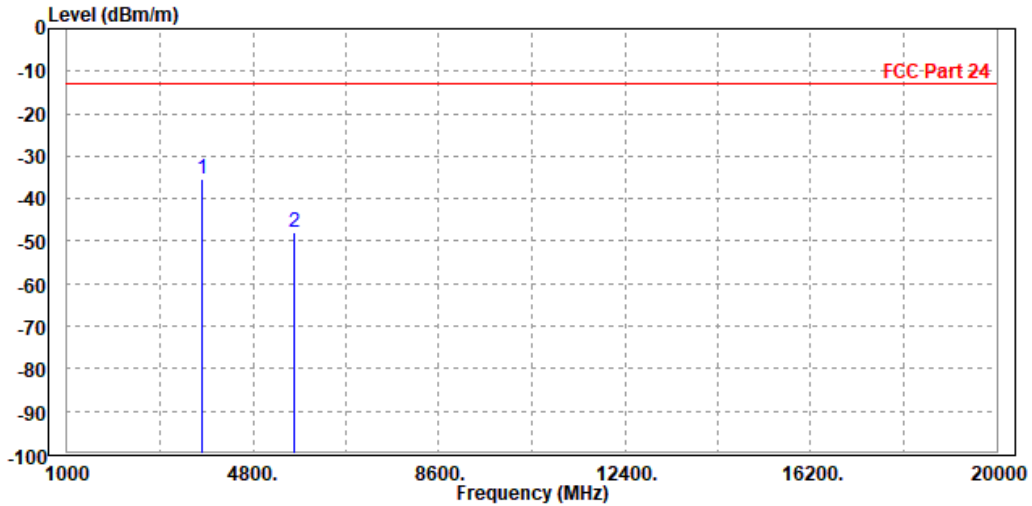


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VERITAS**

Test Report No.: IC200520W003-1

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<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	-35.49	-44.76	-13.00	-22.49	9.27	Peak	Vertical
2	5647.500	-47.85	-58.13	-13.00	-34.85	10.28	Peak	Vertical





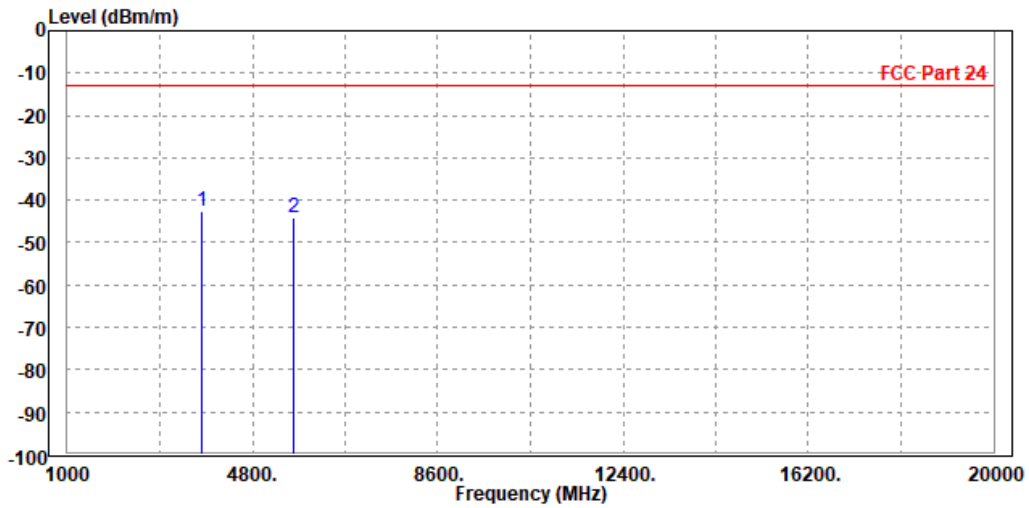
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VERITAS**

Test Report No.: IC200520W003-1

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>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<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 3756.000	-42.48	-51.33	-13.00	-29.48	8.85	Peak	Horizontal
2	5647.500	-44.29	-54.80	-13.00	-31.29	10.51	Peak	Horizontal



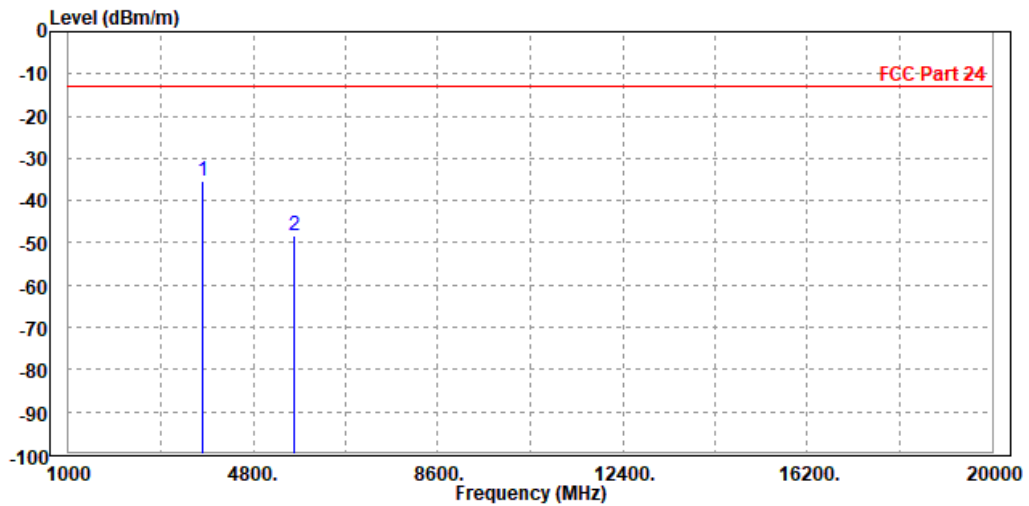


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VERITAS**

Test Report No.: IC200520W003-1

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<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 3765.000	-35.40	-44.67	-13.00	-22.40	9.27	Peak	Vertical
2	5654.000	-48.11	-58.41	-13.00	-35.11	10.30	Peak	Vertical

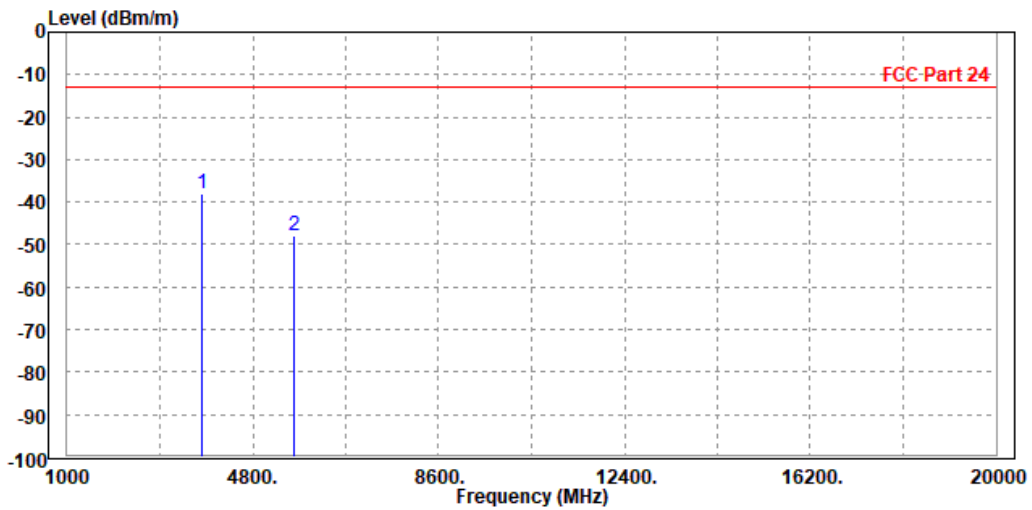




**CHANNEL BANDWIDTH: 20MHz / QPSK**

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

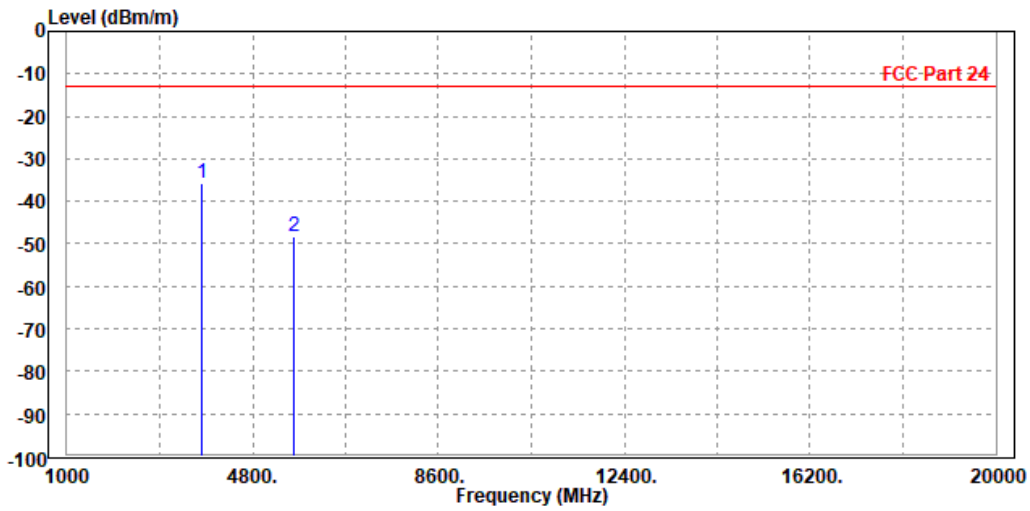
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3765.000	-38.17	-47.03	-13.00	-25.17	8.86	Peak	Horizontal
2	5654.000	-47.80	-58.33	-13.00	-34.80	10.53	Peak	Horizontal





<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 3.8V FROM SOM TEST BOARD: V03
<b>TESTED BY</b>	Tony Xiong		
<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	-35.66	-44.93	-13.00	-22.66	9.27	Peak	Vertical
2	5647.500	-48.18	-58.46	-13.00	-35.18	10.28	Peak	Vertical





### 3.7 RECEIVER SPURIOUS EMISSIONS

#### 3.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Spurious emissions from receivers shall not exceed the radiated emission limits shown in follow table

Frequency(MHz)	Field strength(Uv/m at 3 metres)
30~88	100
88~216	150
216~960	200
Above 960	500

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

### 3.7.2 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

#### NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
4. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from  $20\log(\text{dwell time}/100 \text{ ms})$ , in an effort to demonstrate compliance with the 15.209 limit.
5. All modes of operation were investigated and the worst-case emissions are reported.

### 3.7.3 DEVIATION FROM TEST STANDARD

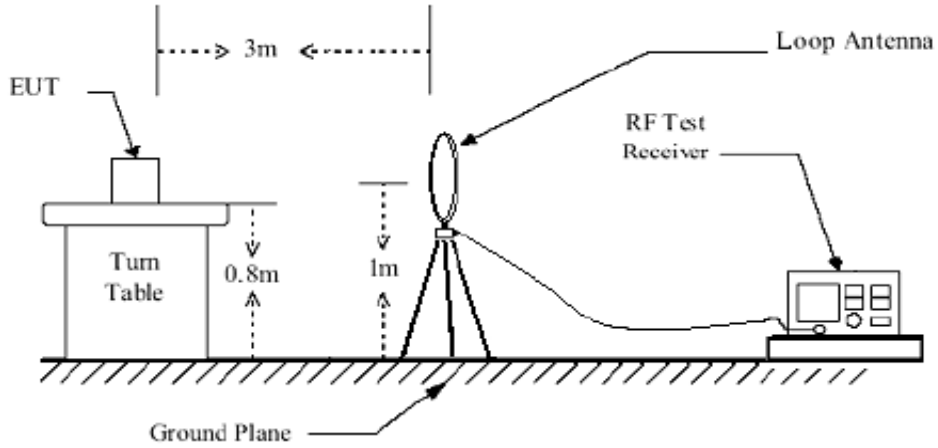
No deviation



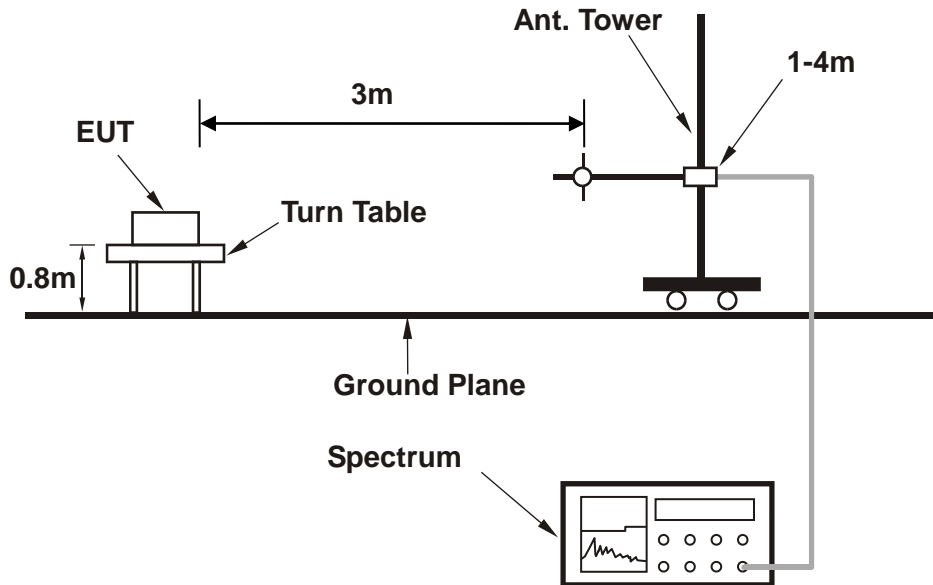


### 3.7.4 TEST SETUP

#### < Frequency Range below 30MHz >

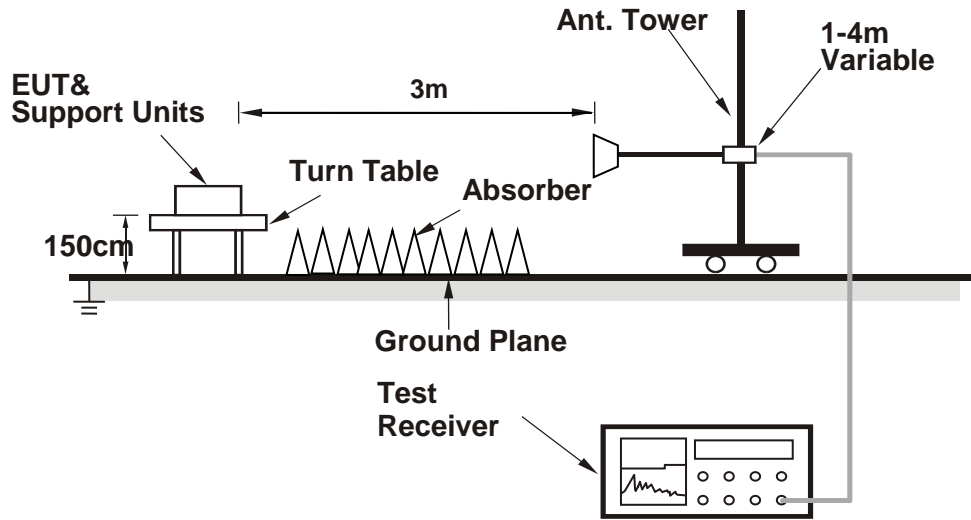


#### < Frequency Range 30MHz~1GHz >





< Frequency Range above 1GHz >



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

### 3.7.5 TEST RESULT

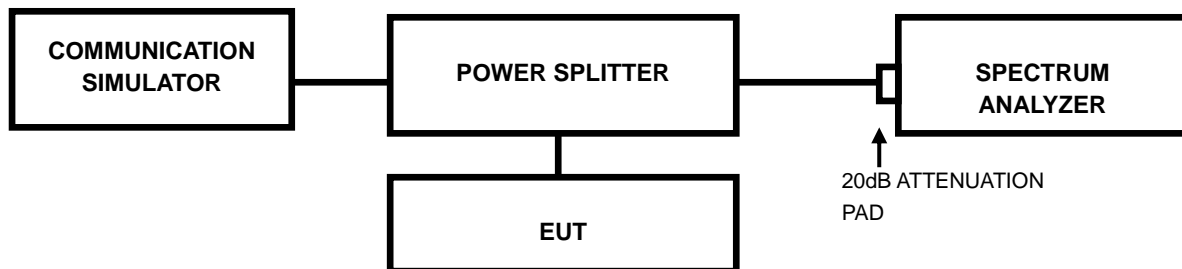
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

### 3.8 PEAK TO AVERAGE RATIO

#### 3.8.1 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

#### 3.8.2 TEST SETUP



#### 3.8.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

#### 3.8.4 TEST RESULTS

The test results was recorded in Report No.:R1811A0536-R8 (IC ID: 10224A-201709BG96).



**BUREAU VERITAS** Test Report No.: IC200520W003-1

## 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, and Telecom. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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**Email:** [customerservice.dg@cn.bureauveritas.com](mailto:customerservice.dg@cn.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.

---END---