

FCC TEST REPORT (PART 24)

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

Manufacturer or Supplier:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.
Product:	Integrated Smart Terminal
Brand Name:	PAX
Model Name:	E700
FCC ID:	V5PE700GM2
Date of tests:	Sep. 01, 2021 ~ Jul. 18, 2022

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

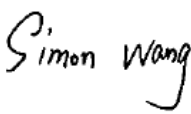

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Jul. 18, 2022	 Date: Jul. 18, 2022
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P22060025RF05	Original release	Jul. 18, 2022



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 24.232	Equivalent Isotropic Radiated Power	Compliance See Note2
2.1055 24.235	Frequency Stability	See Note1
2.1049 24.238(b)	Occupied Bandwidth	See Note1
24.232(d)	Peak to average ratio	See Note1
24.238(b)	Band Edge Measurements	See Note1
2.1051 24.238	Conducted Spurious Emissions	See Note1
2.1053 24.238	Radiated Spurious Emissions	Compliance See Note2

NOTE: 1. refer to Module report RF180521W014-2, FCC ID: 2APNR-GM500U1A.

2. Due to the change of BT WIFI module, the new Sample(a new FCC ID product) retested the power of all band and the worst case of RSE, other datas copied from W7L-P21090005RF05 (FCC ID: V5PE700GM, model: E700) .

Detailed differences and validation are listed as below

Quoted FCC ID	Quoted Report Number	Difference	Spot-Check	Replace data
V5PE700GM	W7L-P21090005RF05	BT, WIFI module	Conducted power &RSE (LTE2)	RF

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	$\pm 76.97\text{Hz}$
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	Apr. 22,21	Apr. 21,22
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 21,22	Apr. 20,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 03,21	Jun. 02,22
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 02,22	Jun. 01,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,21	Mar. 04,22
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 04,22	Mar. 03,23
Horn Antenna	ETS-LINDGREN	3117	00168728	Apr. 02,21	Apr. 01,22
Horn Antenna	ETS-LINDGREN	3117	00168728	Apr. 01,22	Mar. 31,23
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
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 24,22	Feb. 23,23
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 01,22	May. 31,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 03,21	Jun. 02,22
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 02,22	Jun. 01,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 22,21	Apr. 21,22
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 21,22	Apr. 20,23
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
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 02,22	Jun. 01,23
Power Meter	Anritsu	ML2495A	1506002	Apr. 07,21	Apr. 06,22
Power Meter	Anritsu	ML2495A	1506002	Apr. 06,22	Apr. 05,23
Power Sensor	Anritsu	MA2411B	1339352	May. 07,21	May. 06,22
Power Sensor	Anritsu	MA2411B	1339352	May. 06,22	May. 05,23
Temperature Chamber	ESPEC	SH-242	93000855	Jun. 02,21	Jun. 01,22
Temperature Chamber	ESPEC	SH-242	93000855	Jun. 01,22	May. 31,23
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Mar. 05,21	Mar. 04,22
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Mar. 04,22	Mar. 03,23
Power Divider	MCLI/USA	PS2-15	24880	N/A	N/A



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- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Integrated Smart Terminal	
BRAND NAME	PAX	
MODEL NAME	E700	
NOMINAL VOLTAGE	24Vdc (adapter) 3.63Vdc (Li-ion, battery) 3.6 Vdc (Li-ion, battery)	
MODULATION TYPE	GPRS: GMSK EDGE: 8PSK WCDMA: BPSK,QPSK LTE Band 2: QPSK, 16QAM	
FREQUENCY RANGE	GPRS, EDGE	1850.2MHz ~ 1909.8MHz
	WCDMA	1852.4MHz ~ 1907.6MHz
	LTE Band 2 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1909.3MHz
	LTE Band 2 Channel Bandwidth: 3MHz	1851.5MHz ~ 1908.5MHz
	LTE Band 2 Channel Bandwidth: 5MHz	1852.5MHz ~ 1907.5MHz
	LTE Band 2 Channel Bandwidth: 10MHz	1855.0MHz ~ 1905.0MHz
	LTE Band 2 Channel Bandwidth: 15MHz	1857.5MHz ~ 1902.5MHz
	LTE Band 2 Channel Bandwidth: 20MHz	1860.0MHz ~ 1900.0MHz
	MAX. EIRP POWER	GPRS
EDGE		447.71mW
WCDMA		264.24mW
LTE Band 2 Channel Bandwidth: 1.4MHz		255.27mW
LTE Band 2 Channel Bandwidth: 3MHz		255.27mW
LTE Band 2 Channel Bandwidth: 5MHz		255.27mW
LTE Band 2 Channel Bandwidth: 10MHz		252.93mW
LTE Band 2 Channel Bandwidth: 15MHz		255.86mW



	LTE Band 2 Channel Bandwidth: 20MHz	256.45mW
EMISSION DESIGNATOR	GPRS	245KGXW
	EDGE	246KG7W
	WCDMA	4M13F9W
	LTE Band 2 Channel Bandwidth: 1.4MHz	QPSK: 1M09G7D 16QAM: 1M08W7D
	LTE Band 2 Channel Bandwidth: 3MHz	QPSK: 2M69G7D 16QAM: 2M68W7D
	LTE Band 2 Channel Bandwidth: 5MHz	QPSK: 4M48G7D 16QAM: 4M47W7D
	LTE Band 2 Channel Bandwidth: 10MHz	QPSK: 8M94G7D 16QAM: 8M93W7D
	LTE Band 2 Channel Bandwidth: 15MHz	QPSK: 13M4G7D 16QAM: 13M4W7D
	LTE Band 2 Channel Bandwidth: 20MHz	QPSK: 17M9G7D 16QAM: 17M8W7D
	ANTENNA TYPE	Fixed Internal Antenna with 1.5dBi gain for GPRS1900/ WCDMA II/ LTE Band 2
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
EXTREME TEMPERATURE	0-50 °C	
EXTREME VOLTAGE	22.8V- 25.2V	

NOTE:

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

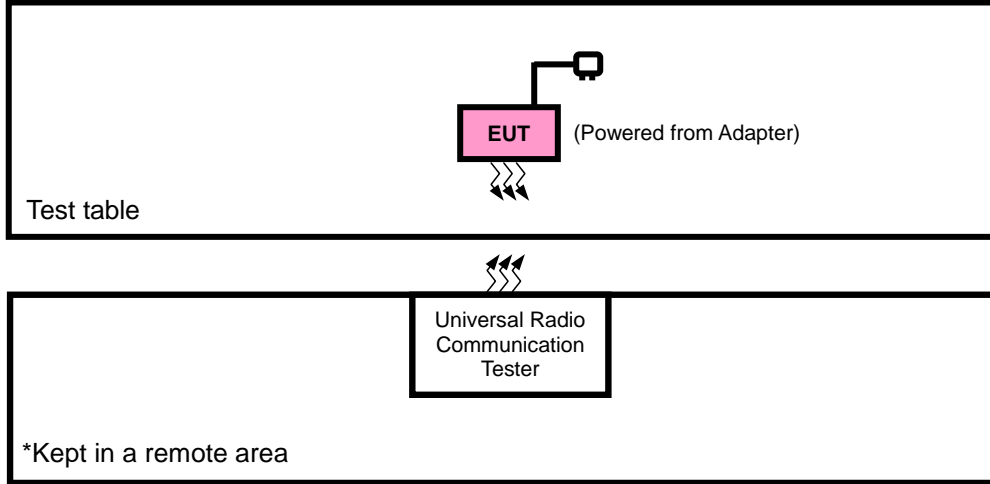
List of Accessory:

ACCESSORIES	BRAND	MODEL	SPECIFICATION
Battery1	EVE	A0671-LE	Capacity : 3.63vdc 2550mAh
Battery2	EVE	A0671B	Capacity : 3.6vdc 2550mAh
AC Adapter	HONOTO	ADS-65HI-19A-3 24065E	I/P:100-240Vac, 1.5A O/P: 24Vdc, 2.7A



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 GPRS/EDGE/ LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with GPRS or WCDMA or LTE link
B	EUT + DC Source with GPRS or WCDMA or LTE link

GPRS MODE

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



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WCDMA

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
B	FREQUENCY STABILITY	9262 to 9538	9262, 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

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	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
B	FREQUENCY STABILITY	18607 to 19193	18607, 19193	1.4MHz	QPSK	1 RB / 0 RB Offset
		18615 to 19185	18615, 19185	3MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625, 19175	5MHz	QPSK	1 RB / 0 RB Offset
		18650 to 19150	18650, 19150	10MHz	QPSK	1 RB / 0 RB Offset
		18675 to 19125	18675, 19125	15MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700, 19100	20MHz	QPSK	1 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK,16QAM	50 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK,16QAM	75 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK,16QAM	100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	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



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



TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	25deg. C, 57%RH	DC 24V	Jace Hu
RADIATED EMISSION	23deg. C, 50%RH	DC 24V	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_{Meas} , typically dBW or dBm);

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

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

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

CONDUCTED POWER MEASUREMENT:

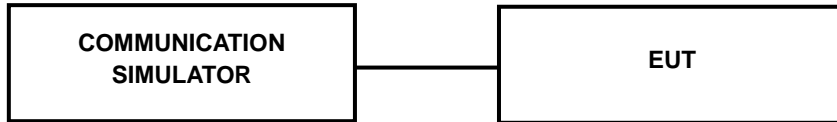
The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	GPRS1900			Max. Tune-up Power
	512	661	810	
Channel	1850.2	1880	1909.8	
Frequency	1850.2	1880	1909.8	
GPRS (GMSK, 1Tx-slot)	28.64	28.23	27.63	30.0
GPRS (GMSK, 2Tx-slot)	28.58	28.16	27.57	30.0
GPRS (GMSK, 3Tx-slot)	28.51	28.08	27.51	30.0
GPRS (GMSK, 4Tx-slot)	28.42	28.00	27.45	30.0
EDGE (8PSK, 1Tx-slot)	25.01	24.96	24.89	26.0
EDGE (8PSK, 2Tx-slot)	24.69	24.66	24.35	25.5
EDGE (8PSK, 3Tx-slot)	24.34	24.28	24.27	25.0
EDGE (8PSK, 4Tx-slot)	24.00	24.02	24.05	24.5

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	22.60	22.72	22.70	23.5
HSDPA Subtest-1	21.93	21.77	21.92	22.5
HSDPA Subtest-2	21.90	21.73	21.96	22.5
HSDPA Subtest-3	21.47	21.34	21.46	22.0
HSDPA Subtest-4	21.38	21.27	21.40	22.0
HSUPA Subtest-1	21.92	21.80	21.89	22.5
HSUPA Subtest-2	19.94	19.78	19.97	20.5
HSUPA Subtest-3	20.93	20.73	20.92	21.5
HSUPA Subtest-4	19.88	19.79	19.93	20.5
HSUPA Subtest-5	21.91	21.76	21.93	22.5



**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

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	22.11	22.14	22.27	0
		1	2	22.47	22.23	22.57	0
		1	5	22.22	22.16	22.32	0
		3	0	22.17	22.00	22.30	0
		3	1	22.55	22.35	22.49	0
		3	3	22.20	22.04	22.34	0
	16QAM	6	0	21.30	21.14	21.22	1
		1	0	20.78	20.65	20.87	1
		1	2	21.42	21.21	21.51	1
		1	5	21.00	20.78	21.05	1
		3	0	21.26	21.12	21.40	1
		3	1	21.37	21.23	21.49	1
		3	3	21.14	21.12	21.30	1
		6	0	20.32	20.15	20.42	2

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	22.14	22.11	22.27	0
		1	7	22.48	22.21	22.57	0
		1	14	22.19	22.15	22.36	0
		8	0	21.19	21.03	21.27	1
		8	3	21.48	21.36	21.52	1
		8	7	21.21	21.07	21.39	1
		15	0	21.25	21.18	21.19	1
	16QAM	1	0	20.76	20.67	20.90	1
		1	7	21.36	21.27	21.48	1
		1	14	21.03	20.78	21.04	1
		8	0	20.22	20.11	20.37	2
		8	3	20.39	20.22	20.48	2
		8	7	20.11	20.12	20.29	2
		15	0	20.32	20.10	20.42	2



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	22.13	22.16	22.26	0
		1	12	22.43	22.24	22.57	0
		1	24	22.18	22.16	22.32	0
		12	0	21.16	21.03	21.30	1
		12	6	21.48	21.35	21.51	1
		12	13	21.17	21.11	21.38	1
		25	0	21.27	21.15	21.16	1
	16QAM	1	0	20.75	20.71	20.90	1
		1	12	21.39	21.24	21.49	1
		1	24	21.03	20.78	21.05	1
		12	0	20.22	20.13	20.40	2
		12	6	20.42	20.18	20.52	2
		12	13	20.16	20.10	20.26	2
		25	0	20.32	20.09	20.45	2

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	22.18	22.14	22.24	0
		1	24	22.46	22.26	22.53	0
		1	49	22.22	22.22	22.33	0
		25	0	21.17	21.03	21.31	1
		25	12	21.55	21.35	21.52	1
		25	25	21.17	21.05	21.38	1
		50	0	21.30	21.16	21.21	1
	16QAM	1	0	20.80	20.71	20.86	1
		1	24	21.40	21.24	21.51	1
		1	49	20.99	20.84	21.03	1
		25	0	20.28	20.09	20.44	2
		25	12	20.37	20.20	20.49	2
		25	25	20.15	20.11	20.29	2
		50	0	20.37	20.12	20.39	2



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	22.11	22.14	22.27	0
		1	37	22.48	22.21	22.58	0
		1	74	22.16	22.19	22.32	0
		36	0	21.20	21.02	21.30	1
		36	19	21.54	21.30	21.52	1
		36	39	21.19	21.04	21.38	1
		75	0	21.30	21.18	21.16	1
	16QAM	1	0	20.76	20.64	20.86	1
		1	37	21.41	21.23	21.51	1
		1	74	21.03	20.79	21.01	1
		36	0	20.24	20.09	20.43	2
		36	19	20.43	20.16	20.53	2
		36	39	20.10	20.13	20.26	2
		75	0	20.36	20.09	20.46	2

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	22.19	22.18	22.32	0
		1	50	22.50	22.29	22.59	0
		1	99	22.24	22.23	22.37	0
		50	0	21.23	21.08	21.32	1
		50	25	21.56	21.37	21.57	1
		50	50	21.25	21.12	21.40	1
		100	0	21.31	21.20	21.24	1
	16QAM	1	0	20.83	20.72	20.92	1
		1	50	21.44	21.29	21.53	1
		1	99	21.05	20.86	21.06	1
		50	0	20.30	20.17	20.45	2
		50	25	20.45	20.24	20.54	2
		50	50	20.18	20.17	20.31	2
		100	0	20.38	20.17	20.47	2



EIRP POWER (dBm)

GPRS

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
512	1850.2	28.64	1.5	30.14	1032.76	2
661	1880.0	28.23	1.5	29.73	939.72	2
810	1909.8	27.63	1.5	29.13	818.46	2

EDGE

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
512	1850.2	25.01	1.5	26.51	447.71	2
661	1880.0	24.96	1.5	26.46	442.59	2
810	1909.8	24.89	1.5	26.39	435.51	2

WCDMA

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
9662	1852.4	22.6	1.5	24.1	257.04	2
9800	1880	22.72	1.5	24.22	264.24	2
9938	1907.6	22.7	1.5	24.2	263.03	2



LTE BAND 2

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	22.55	1.5	24.05	254.1	2
18900	1880.0	22.35	1.5	23.85	242.66	2
19193	1909.3	22.57	1.5	24.07	255.27	2

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	21.42	1.5	22.92	195.88	2
18900	1880.0	21.23	1.5	22.73	187.5	2
19193	1909.3	21.51	1.5	23.01	199.99	2

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	22.48	1.5	23.98	250.03	2
18900	1880.0	22.21	1.5	23.71	234.96	2
19185	1908.5	22.57	1.5	24.07	255.27	2

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	21.36	1.5	22.86	193.2	2
18900	1880.0	21.27	1.5	22.77	189.23	2
19185	1908.5	21.48	1.5	22.98	198.61	2



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Test Report No.: W7L-P22060025RF05

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	22.43	1.5	23.93	247.17	2
18900	1880.0	22.24	1.5	23.74	236.59	2
19175	1907.5	22.57	1.5	24.07	255.27	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	21.39	1.5	22.89	194.54	2
18900	1880.0	21.24	1.5	22.74	187.93	2
19175	1907.5	21.49	1.5	22.99	199.07	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855.0	22.46	1.5	23.96	248.89	2
18900	1880.0	22.26	1.5	23.76	237.68	2
19150	1905.0	22.53	1.5	24.03	252.93	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855.0	21.4	1.5	22.9	194.98	2
18900	1880.0	21.24	1.5	22.74	187.93	2
19150	1905.0	21.51	1.5	23.01	199.99	2



CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	22.48	1.5	23.98	250.03	2
18900	1880.0	22.21	1.5	23.71	234.96	2
19125	1902.5	22.58	1.5	24.08	255.86	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	21.41	1.5	22.91	195.43	2
18900	1880.0	21.23	1.5	22.73	187.5	2
19125	1902.5	21.51	1.5	23.01	199.99	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	22.5	1.5	24	251.19	2
18900	1880	22.29	1.5	23.79	239.33	2
19100	1900	22.59	1.5	24.09	256.45	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _{T-Lc} (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	21.44	1.5	22.94	196.79	2
18900	1880	21.29	1.5	22.79	190.11	2
19100	1900	21.53	1.5	23.03	200.91	2

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



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

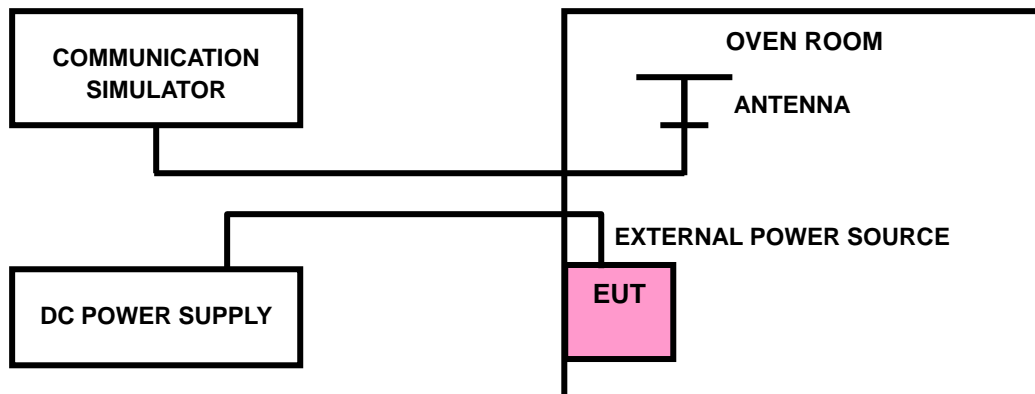
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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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Test Report No.: W7L-P22060025RF05

3.2.4 TEST RESULTS

NOTE: refer to Module report RF180521W014-2

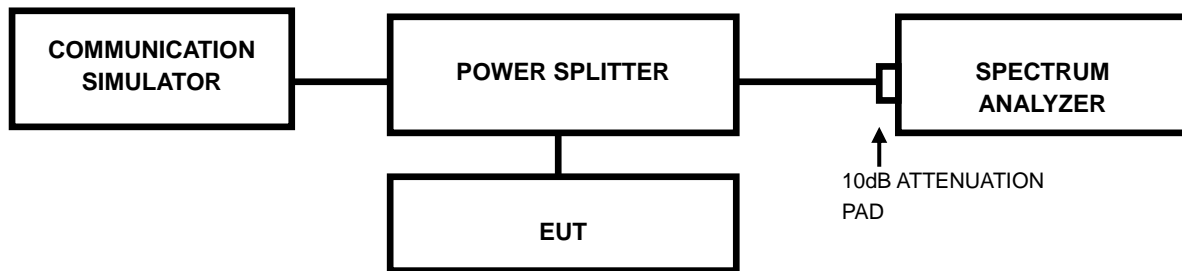


3.3 OCCUPIED BANDWIDTH MEASUREMENT

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 PROCEDURES

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



Test Report No.: W7L-P22060025RF05

3.3.4 TEST RESULTS

NOTE: refer to Module report RF180521W014-2

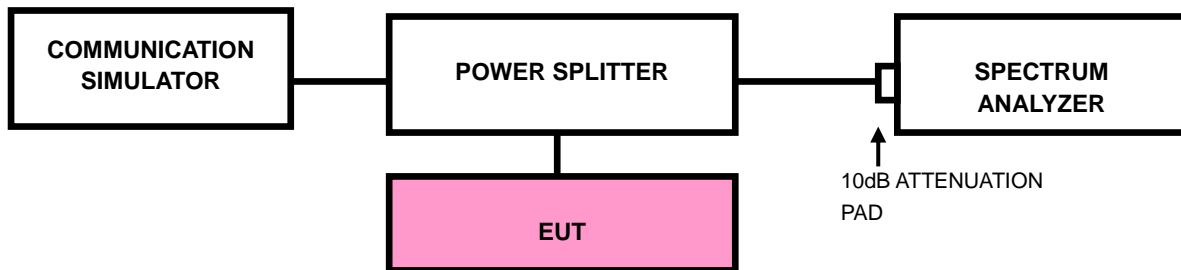


3.4 BAND EDGE MEASUREMENTC

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 (GPRS/ EDGE/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.



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VERITAS**

Test Report No.: W7L-P22060025RF05

3.4.4. TEST RESULTS

NOTE: refer to Module report RF180521W014-2



3.5 CONDUCTED SPURIOUS EMISSIONS

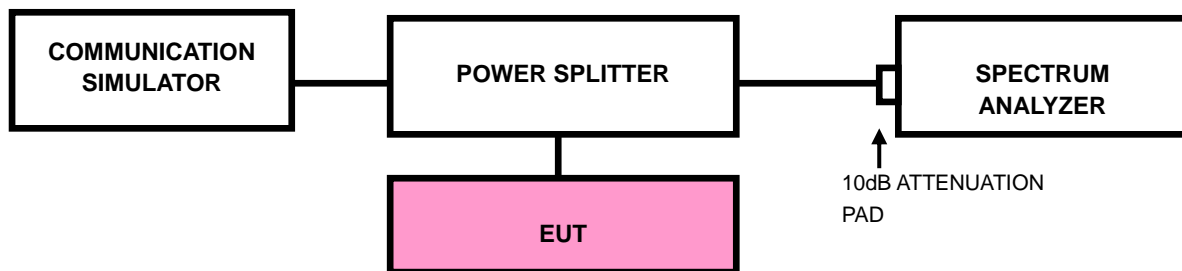
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 -13dBm .

3.5.2 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 30 MHz to 19.1GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP





**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

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.

NOTE: refer to Module report RF180521W014-2



3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

3.6.2 TEST PROCEDURES

- 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.

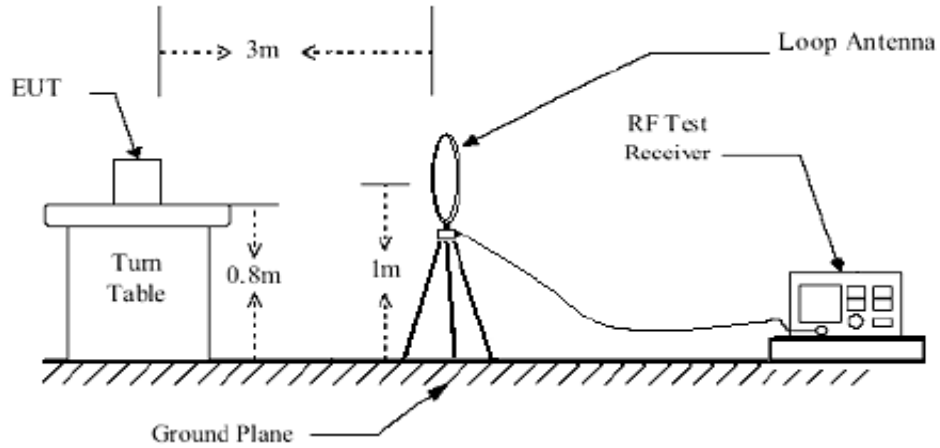
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

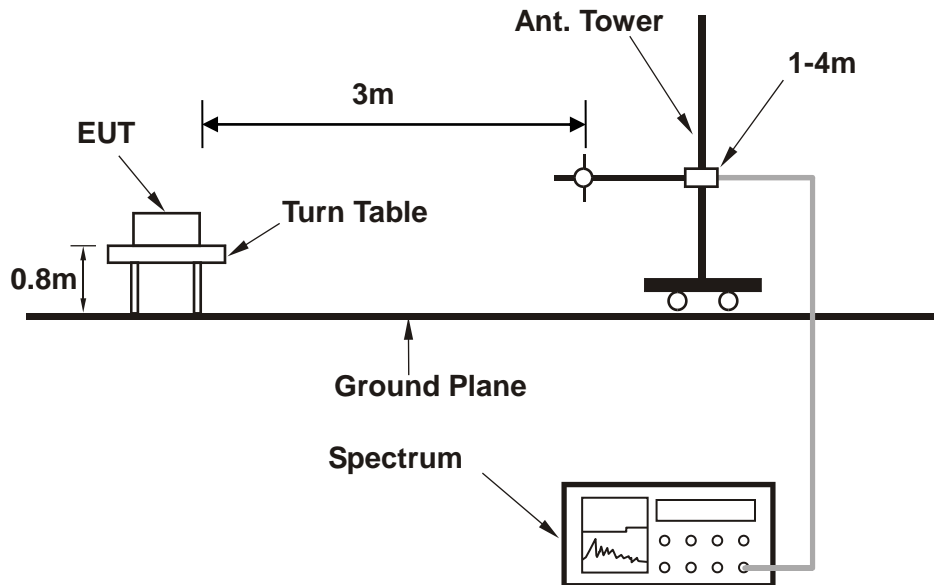


3.6.4 TEST SETUP

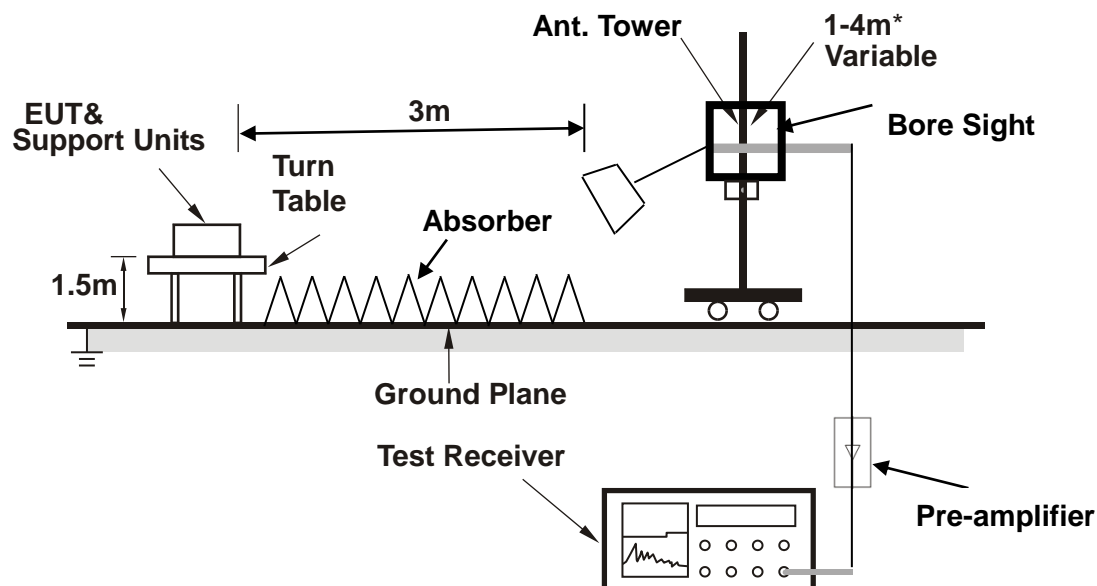
< Frequency Range below 30MHz >



< 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).



**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

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

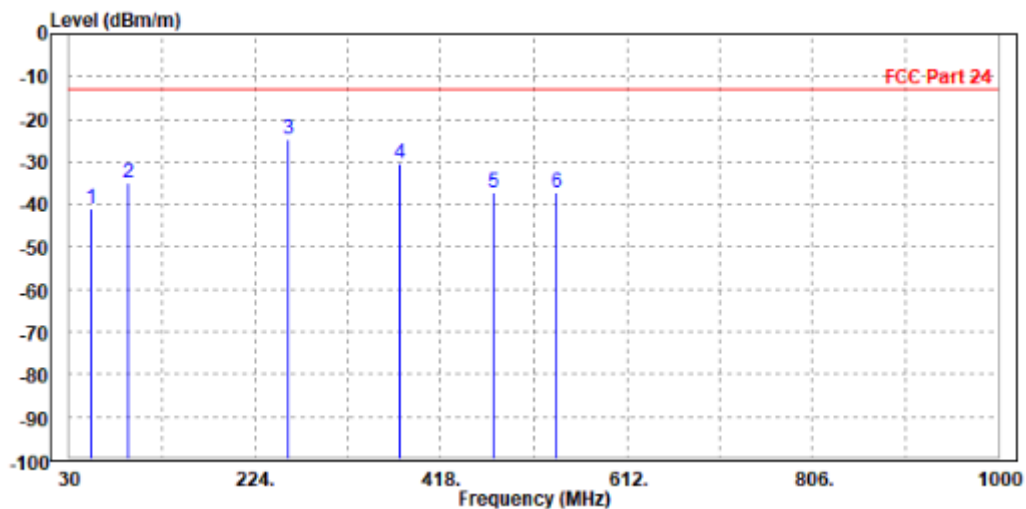
30 MHz – 1GHz data:

LTE Band 2

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 19150	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	52.310	-41.08	-51.05	-13.00	-28.08	9.97	Peak	Horizontal
2	91.110	-34.99	-44.07	-13.00	-21.99	9.08	Peak	Horizontal
3 PP	258.920	-24.78	-38.37	-13.00	-11.78	13.59	Peak	Horizontal
4	375.320	-30.27	-45.93	-13.00	-17.27	15.66	Peak	Horizontal
5	472.320	-37.27	-54.84	-13.00	-24.27	17.57	Peak	Horizontal
6	538.280	-37.13	-55.84	-13.00	-24.13	18.71	Peak	Horizontal



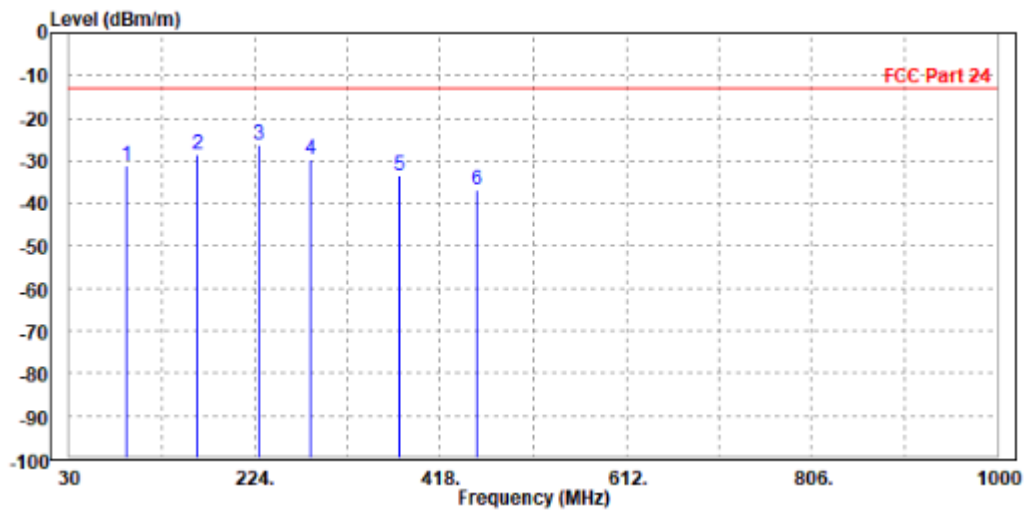


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 19150	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	89.170	-31.33	-39.85	-13.00	-18.33	8.52	Peak	Vertical
2	164.830	-28.71	-39.68	-13.00	-15.71	10.97	Peak	Vertical
3 PP	227.880	-26.09	-38.20	-13.00	-13.09	12.11	Peak	Vertical
4	282.200	-29.56	-43.06	-13.00	-16.56	13.50	Peak	Vertical
5	375.320	-33.51	-49.24	-13.00	-20.51	15.73	Peak	Vertical
6	456.800	-36.90	-53.94	-13.00	-23.90	17.04	Peak	Vertical





BUREAU VERITAS

Test Report No.: W7L-P22060025RF05

ABOVE 1GHz DATA

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

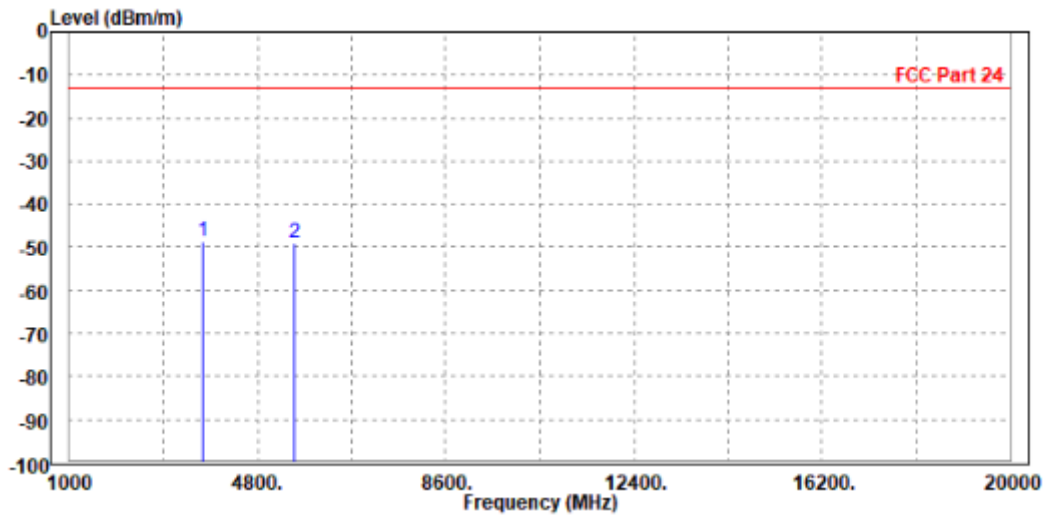
WORST-CASE DATA

GPRS 1900:

CH 512

MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3698.000	-48.80	-57.58	-13.00	-35.80	8.78	Peak	Horizontal
2	5550.000	-48.94	-59.13	-13.00	-35.94	10.19	Peak	Horizontal



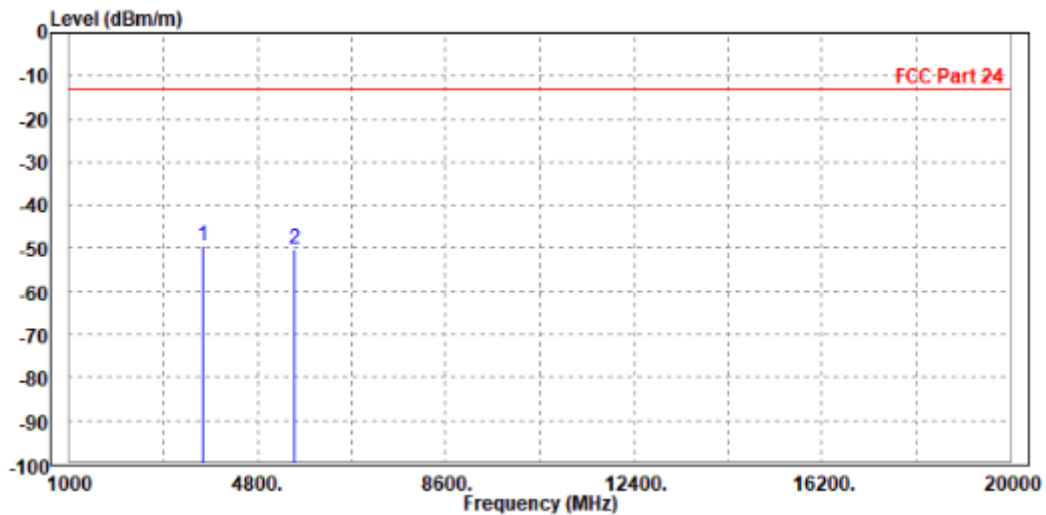


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

			Read Level	Limit Line	Over Limit			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3700.000	-49.59	-58.84	-13.00	-36.59	9.25	Peak	Vertical
2	5541.000	-50.24	-60.10	-13.00	-37.24	9.86	Peak	Vertical





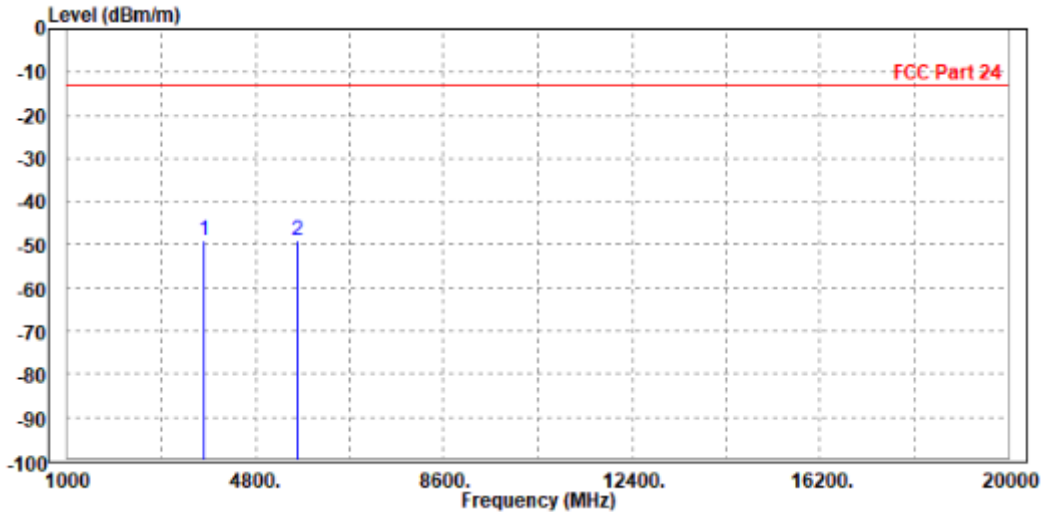
**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

CH 661

MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-48.90	-57.75	-13.00	-35.90	8.85	Peak	Horizontal
2 PP	5640.000	-48.89	-59.37	-13.00	-35.89	10.48	Peak	Horizontal



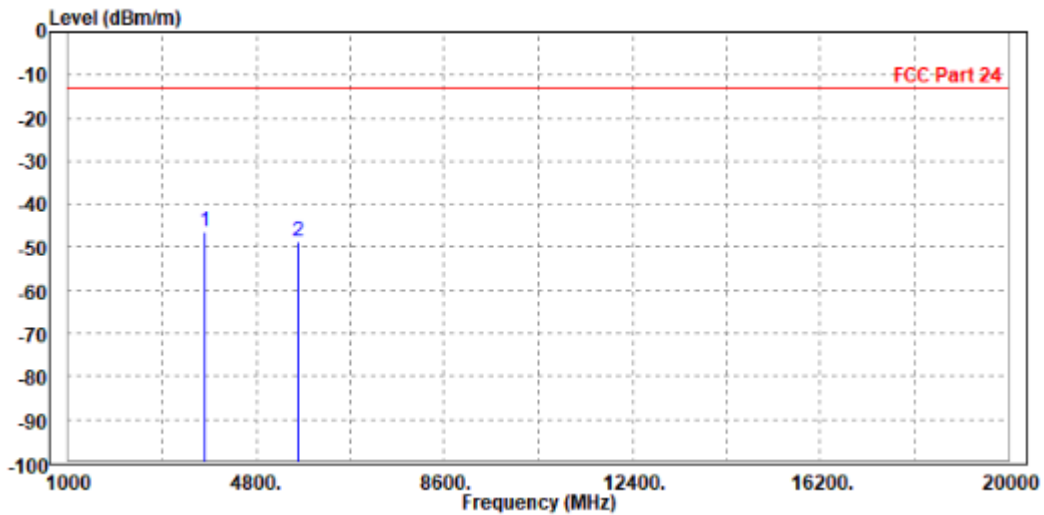


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3760.000	-46.53	-55.80	-13.00	-33.53	9.27	Peak	Vertical
2	5636.000	-48.75	-58.98	-13.00	-35.75	10.23	Peak	Vertical





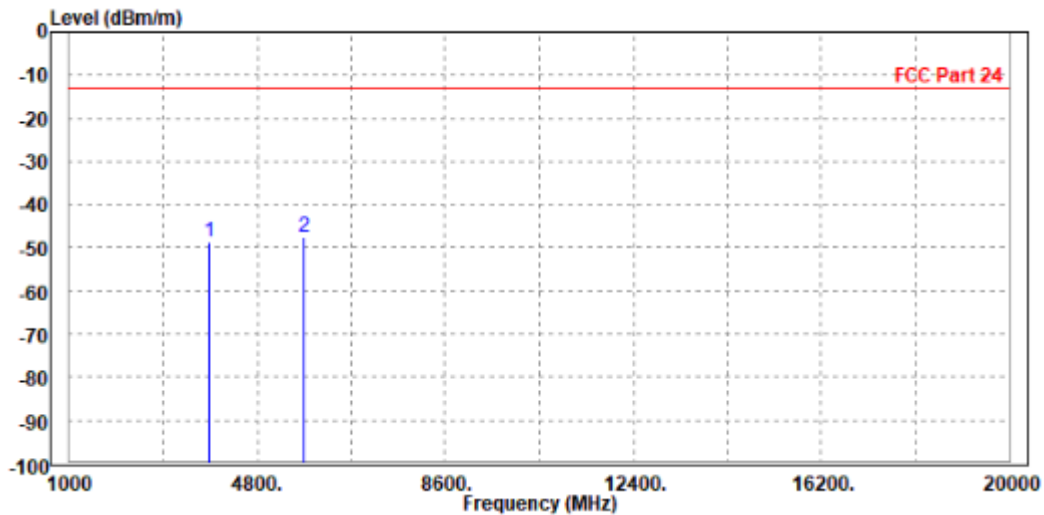
**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

CH 810

MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-48.83	-57.74	-13.00	-35.83	8.91	Peak	Horizontal
2 PP	5730.000	-47.58	-58.36	-13.00	-34.58	10.78	Peak	Horizontal



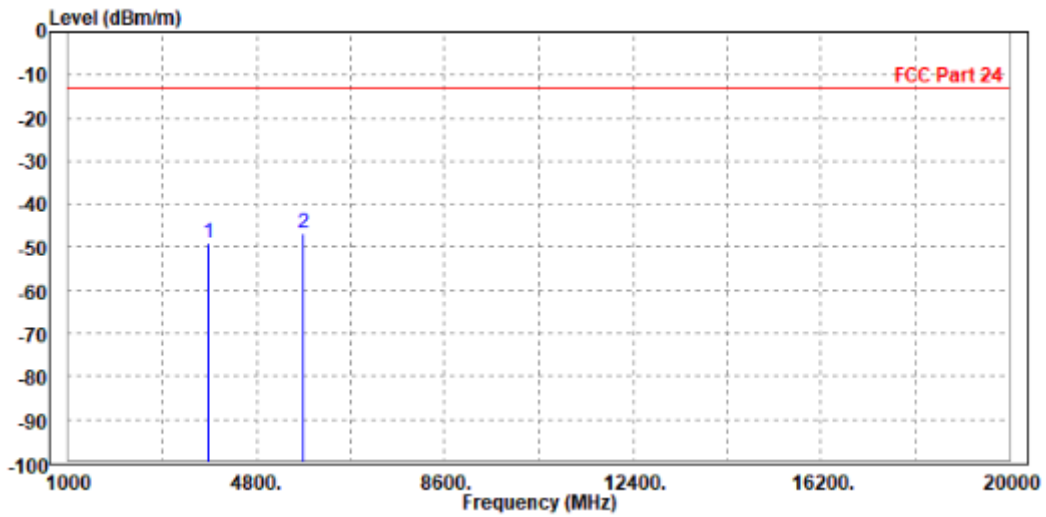


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3820.000	-48.95	-58.24	-13.00	-35.95	9.29	Peak	Vertical
2 PP	5731.000	-46.65	-57.25	-13.00	-33.65	10.60	Peak	Vertical





**BUREAU
VERITAS**

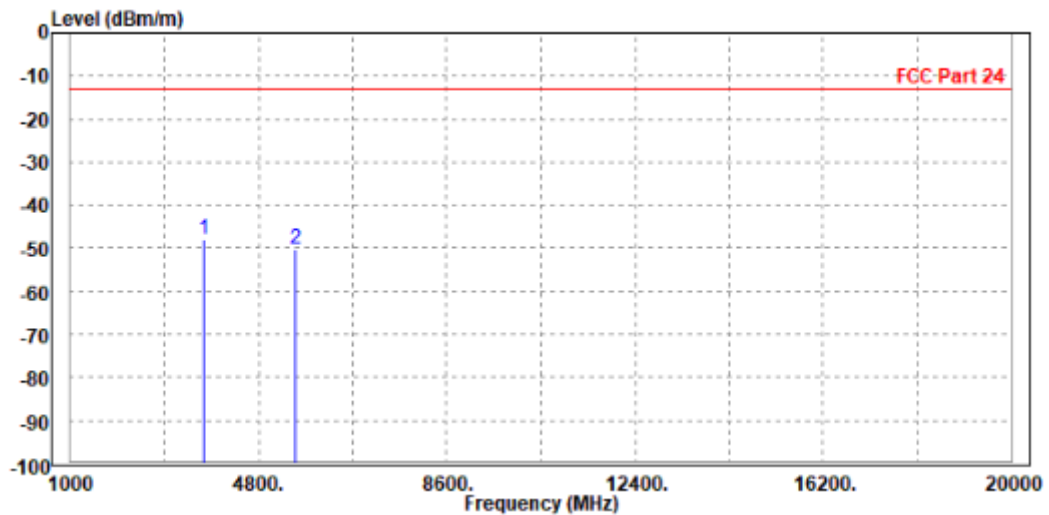
Test Report No.: W7L-P22060025RF05

EDGE 1900:

CH 512

MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3698.000	-47.75	-56.53	-13.00	-34.75	8.78	Peak	Horizontal
2	5550.000	-50.09	-60.28	-13.00	-37.09	10.19	Peak	Horizontal



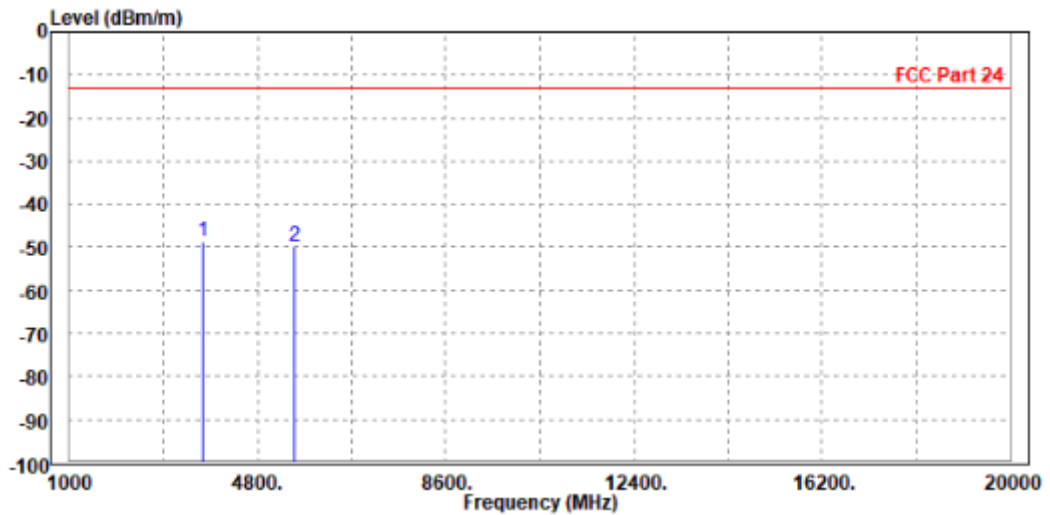


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3700.000	-48.50	-57.75	-13.00	-35.50	9.25	Peak	Vertical
2	5541.000	-49.90	-59.76	-13.00	-36.90	9.86	Peak	Vertical





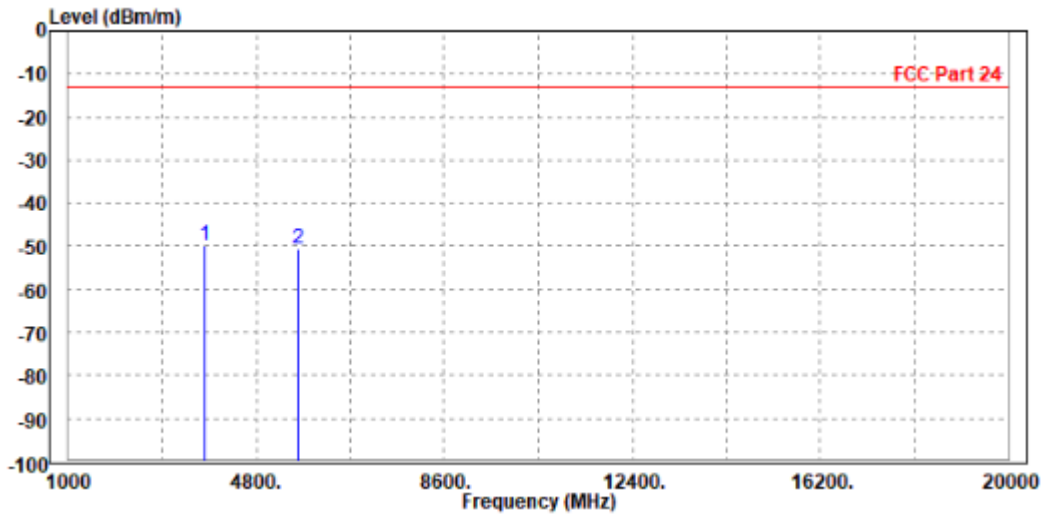
**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

CH 661

MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3760.000	-49.97	-58.82	-13.00	-36.97	8.85	Peak	Horizontal
2	5636.000	-50.49	-60.96	-13.00	-37.49	10.47	Peak	Horizontal



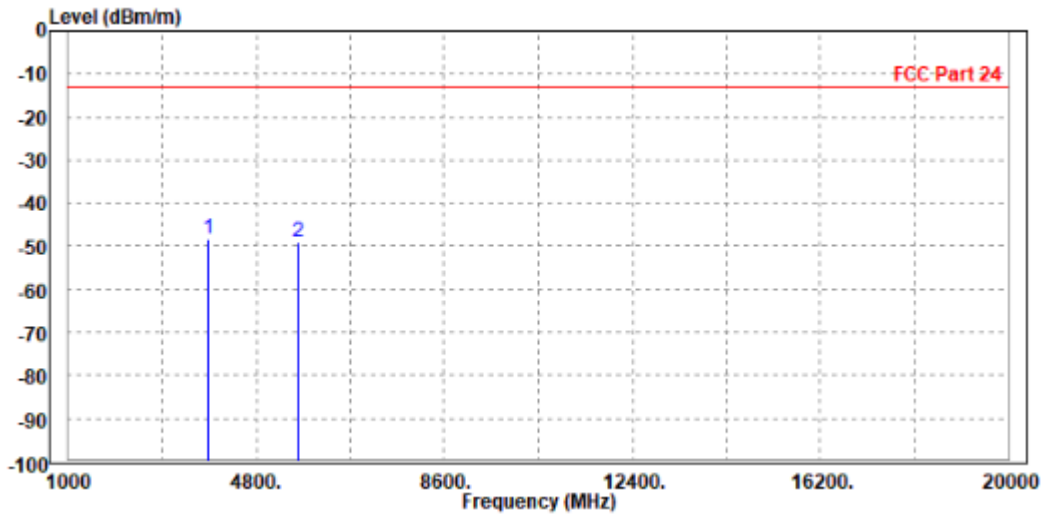


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3812.000	-48.30	-57.59	-13.00	-35.30	9.29	Peak	Vertical
2	5640.000	-49.03	-59.28	-13.00	-36.03	10.25	Peak	Vertical





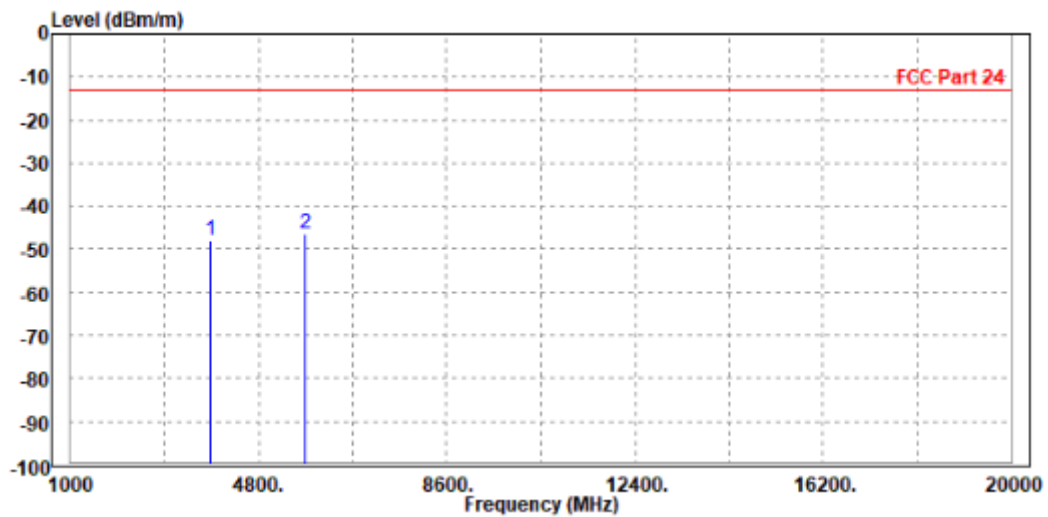
**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

CH 810

MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3820.000	-47.90	-56.82	-13.00	-34.90	8.92	Peak	Horizontal
2 PP	5731.000	-46.51	-57.29	-13.00	-33.51	10.78	Peak	Horizontal



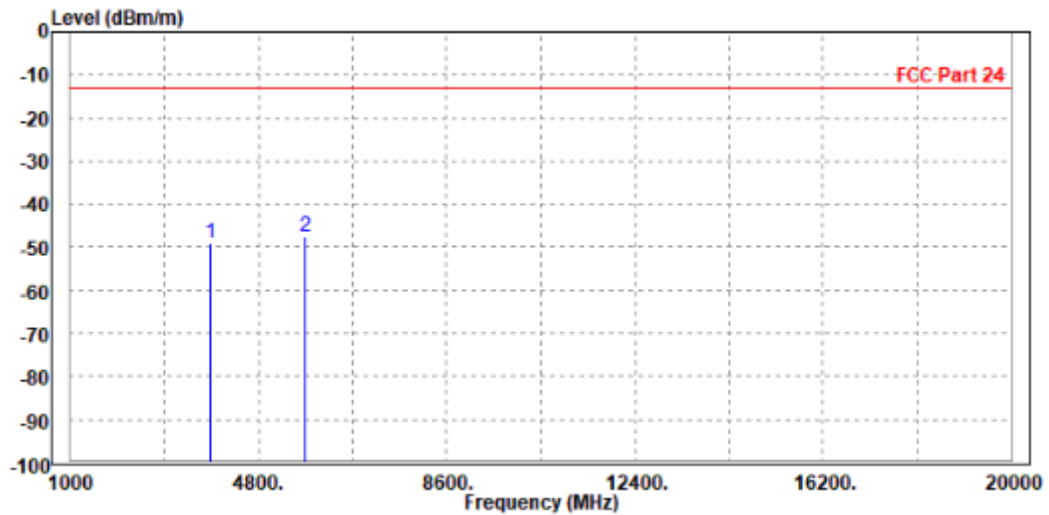


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-48.92	-58.21	-13.00	-35.92	9.29	Peak	Vertical
2 PP	5730.000	-47.38	-57.98	-13.00	-34.38	10.60	Peak	Vertical





**BUREAU
VERITAS**

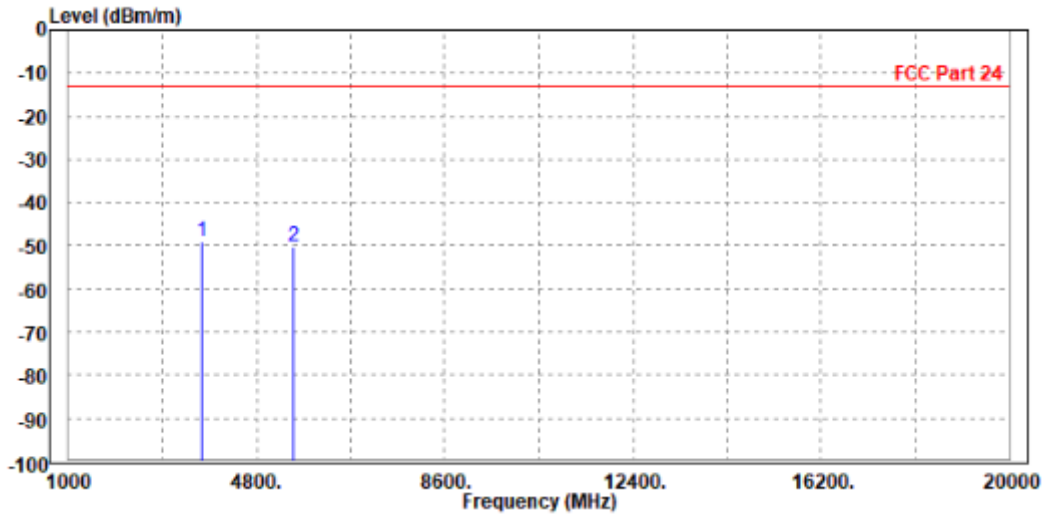
Test Report No.: W7L-P22060025RF05

WCDMA Band II

CH 9262

MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3705.000	-48.91	-57.70	-13.00	-35.91	8.79	Peak	Horizontal
2	5560.000	-50.19	-60.41	-13.00	-37.19	10.22	Peak	Horizontal



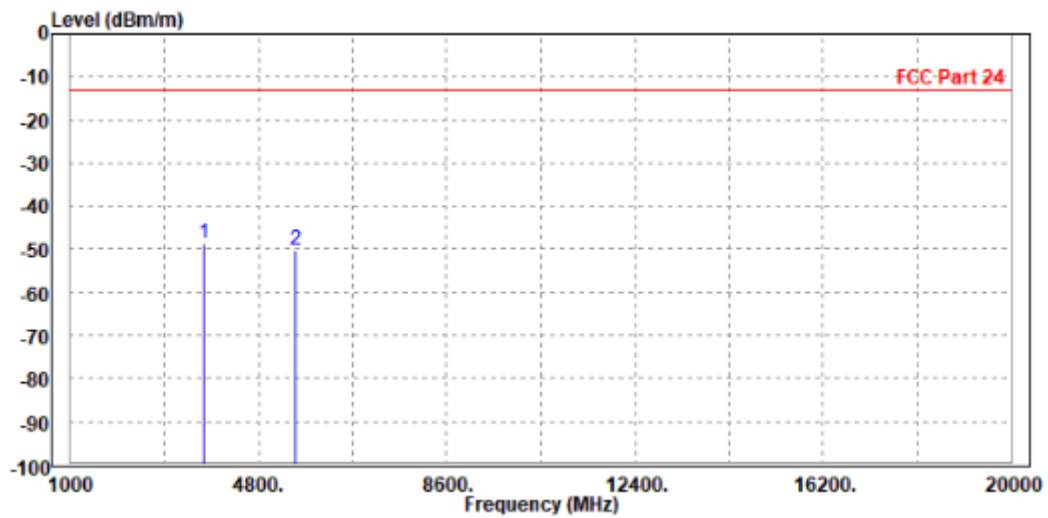


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3698.000	-48.79	-58.04	-13.00	-35.79	9.25	Peak	Vertical
2	5557.000	-50.05	-59.98	-13.00	-37.05	9.93	Peak	Vertical





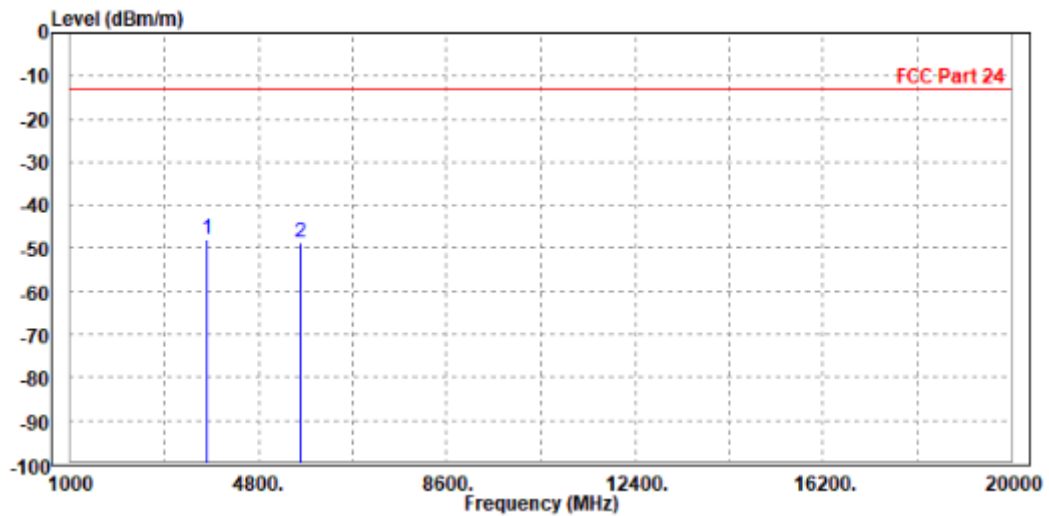
**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

CH 9400

MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3760.000	-47.85	-56.70	-13.00	-34.85	8.85	Peak	Horizontal
2	5636.000	-48.79	-59.26	-13.00	-35.79	10.47	Peak	Horizontal



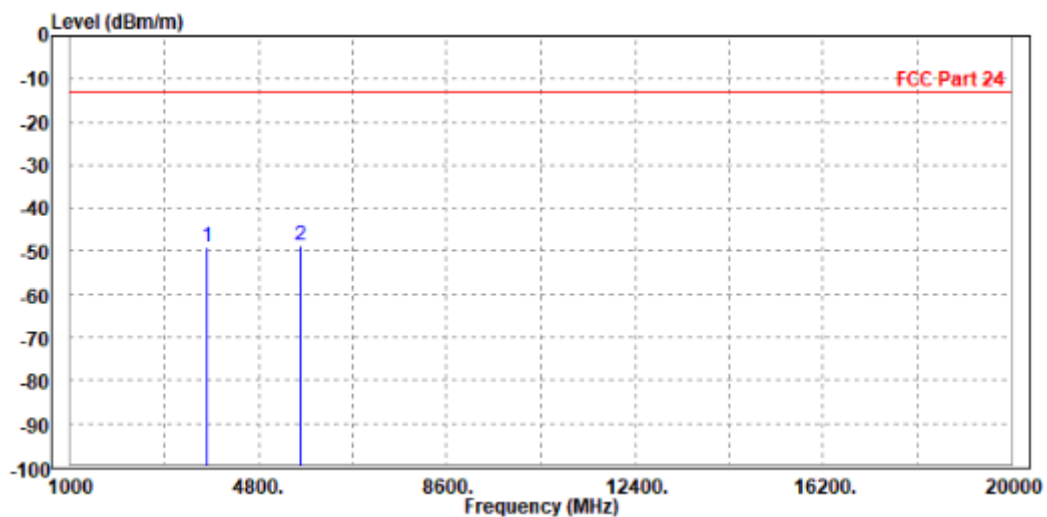


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-48.94	-58.21	-13.00	-35.94	9.27	Peak	Vertical
2	5640.000	-48.65	-58.90	-13.00	-35.65	10.25	Peak	Vertical



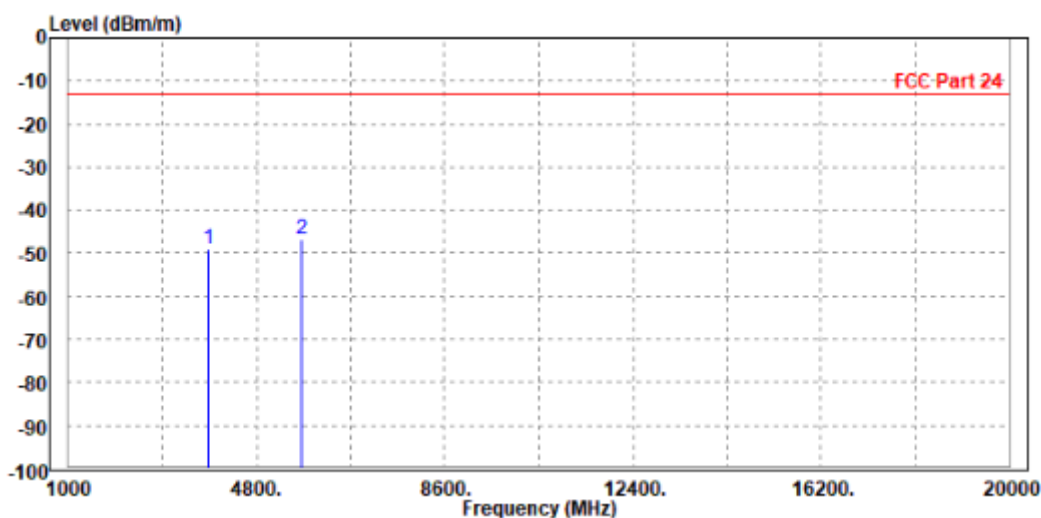


Test Report No.: W7L-P22060025RF05

CH 9538

MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-48.93	-57.84	-13.00	-35.93	8.91	Peak	Horizontal
2 PP	5722.000	-46.94	-57.69	-13.00	-33.94	10.75	Peak	Horizontal



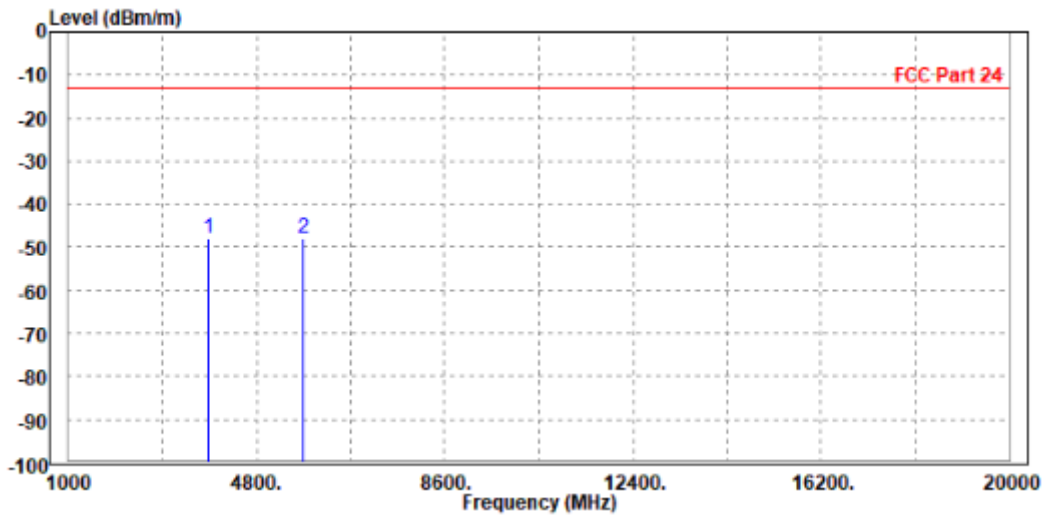


BUREAU VERITAS

Test Report No.: W7L-P22060025RF05

MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3815.000	-48.08	-57.37	-13.00	-35.08	9.29	Peak	Vertical
2 PP	5731.000	-47.84	-58.44	-13.00	-34.84	10.60	Peak	Vertical





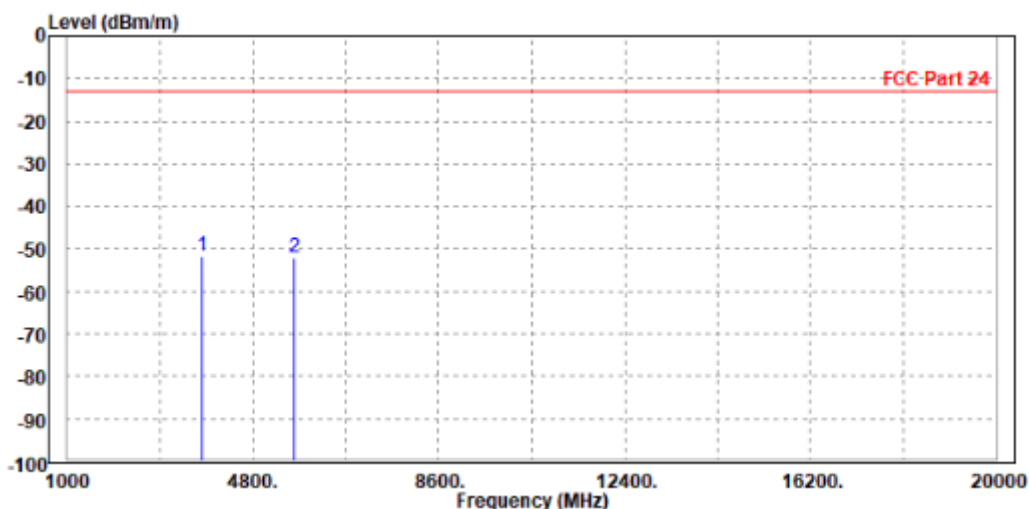
Test Report No.: W7L-P22060025RF05

LTE Band 2

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3755.000	-51.76	-60.61	-13.00	-38.76	8.85	Peak	Horizontal
2	5640.000	-52.19	-62.67	-13.00	-39.19	10.48	Peak	Horizontal



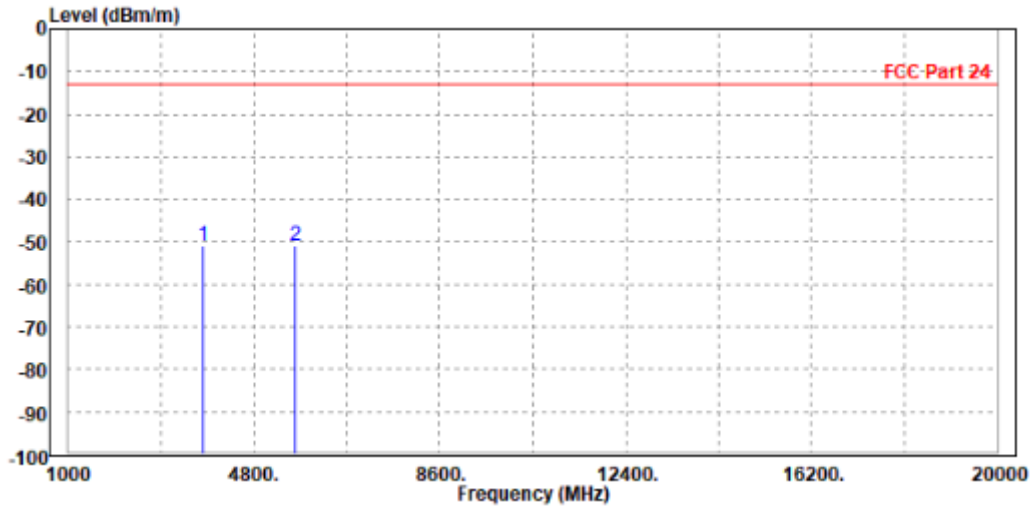


BUREAU
VERITAS

Test Report No.: W7L-P22060025RF05

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-51.07	-60.34	-13.00	-38.07	9.27	Peak	Vertical
2	5640.000	-51.14	-61.39	-13.00	-38.14	10.25	Peak	Vertical





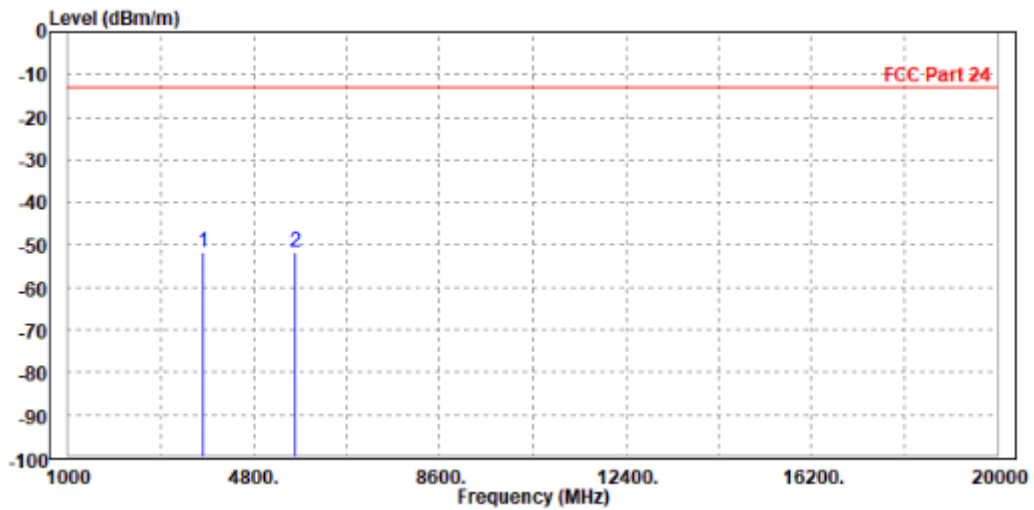
BUREAU VERITAS

Test Report No.: W7L-P22060025RF05

CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.76	-60.61	-13.00	-38.76	8.85	Peak	Horizontal
2 PP	5640.000	-51.73	-62.21	-13.00	-38.73	10.48	Peak	Horizontal



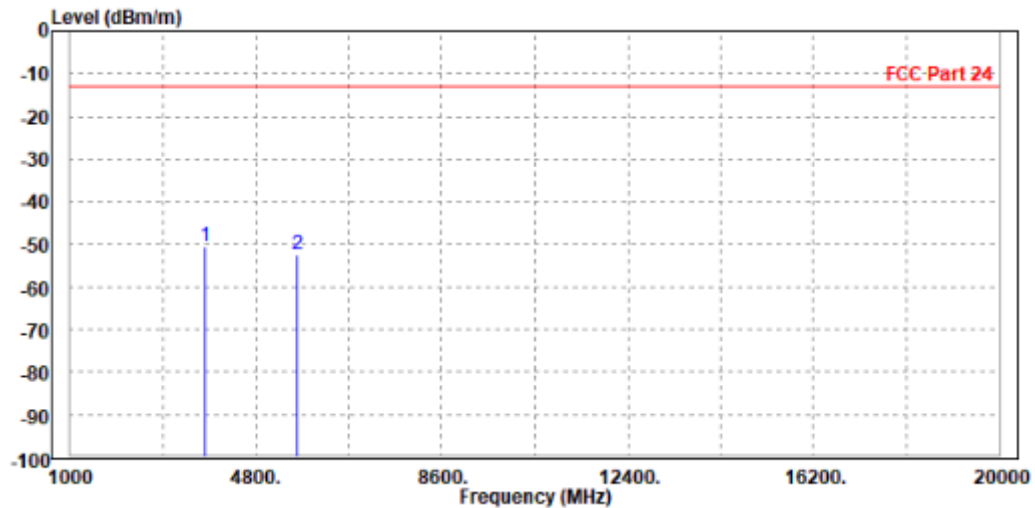


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-50.69	-59.96	-13.00	-37.69	9.27	Peak	Vertical
2	5640.000	-52.50	-62.75	-13.00	-39.50	10.25	Peak	Vertical





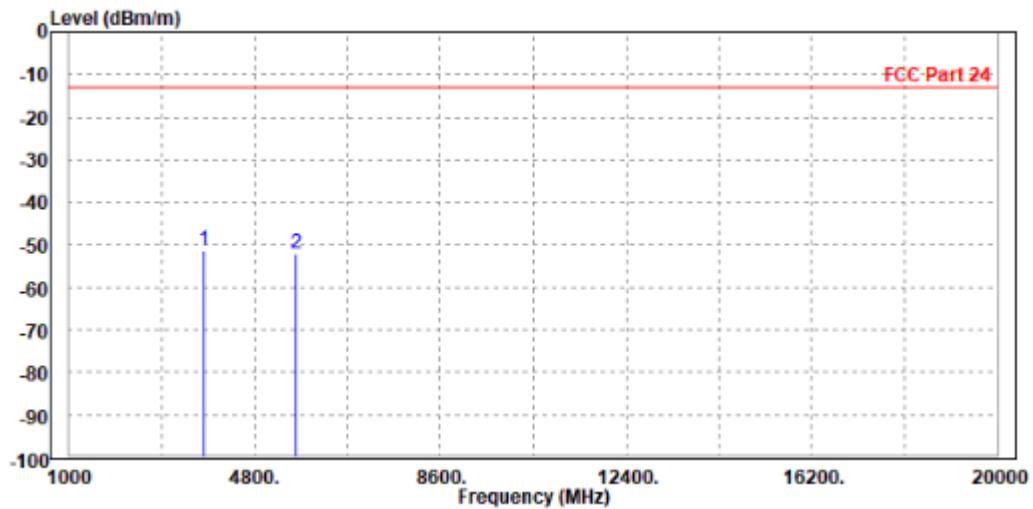
**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-51.18	-60.03	-13.00	-38.18	8.85	Peak	Horizontal
2	5640.000	-52.10	-62.58	-13.00	-39.10	10.48	Peak	Horizontal



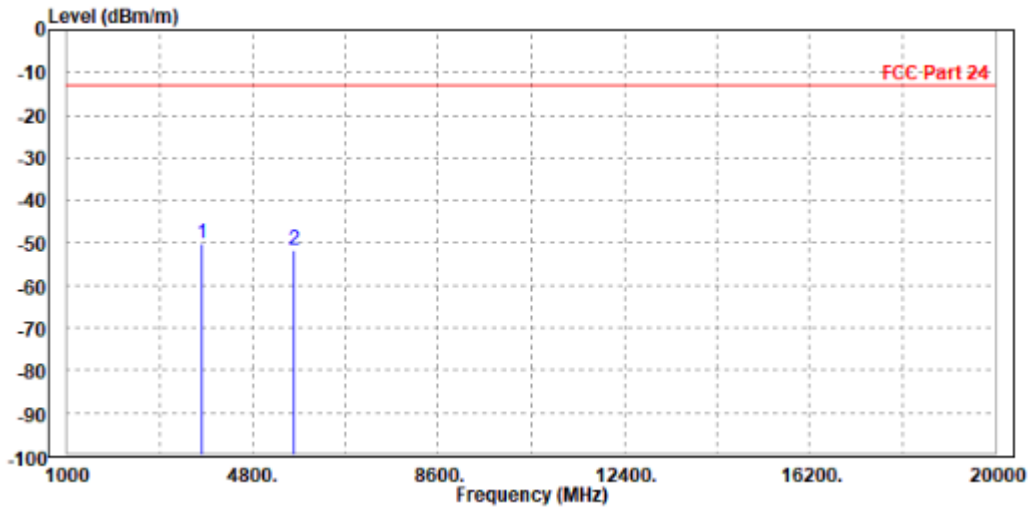


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-50.02	-59.29	-13.00	-37.02	9.27	Peak	Vertical
2	5640.000	-51.75	-62.00	-13.00	-38.75	10.25	Peak	Vertical





**BUREAU
VERITAS**

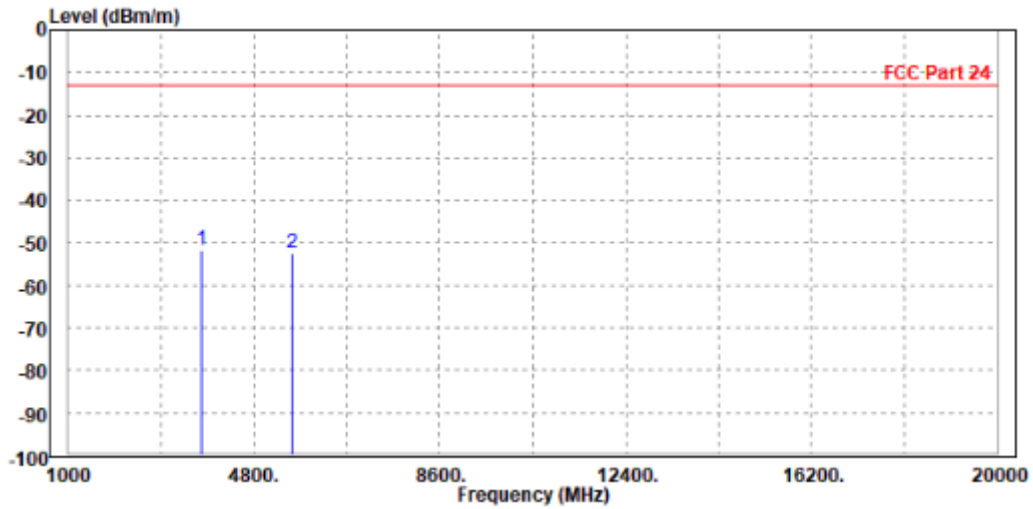
Test Report No.: W7L-P22060025RF05

CHANNEL BANDWIDTH: 10MHz / QPSK

CH18650

MODE	TX channel 18650	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3717.000	-51.68	-60.49	-13.00	-38.68	8.81	Peak	Horizontal
2	5565.000	-52.31	-62.55	-13.00	-39.31	10.24	Peak	Horizontal



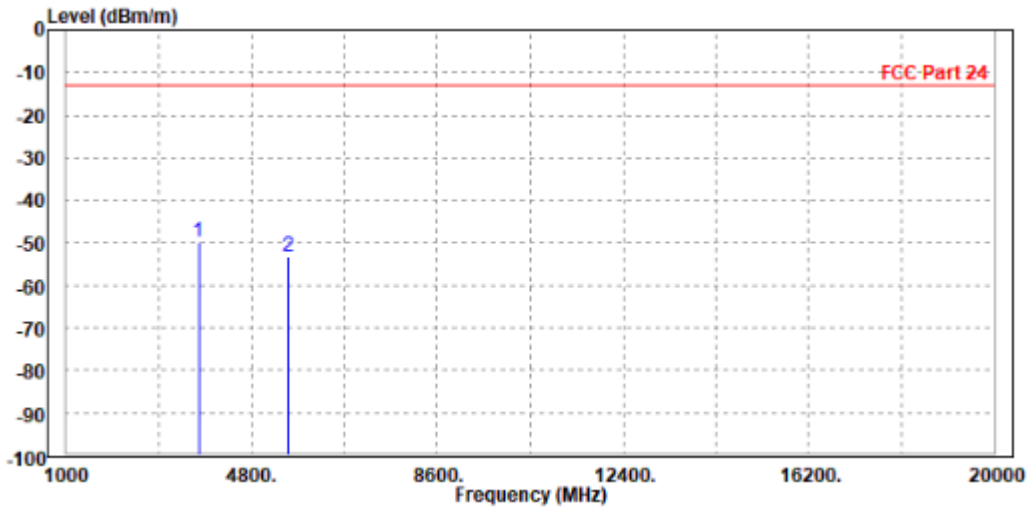


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 18650	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3710.000	-49.94	-59.19	-13.00	-36.94	9.25	Peak	Vertical
2	5560.000	-53.17	-63.11	-13.00	-40.17	9.94	Peak	Vertical





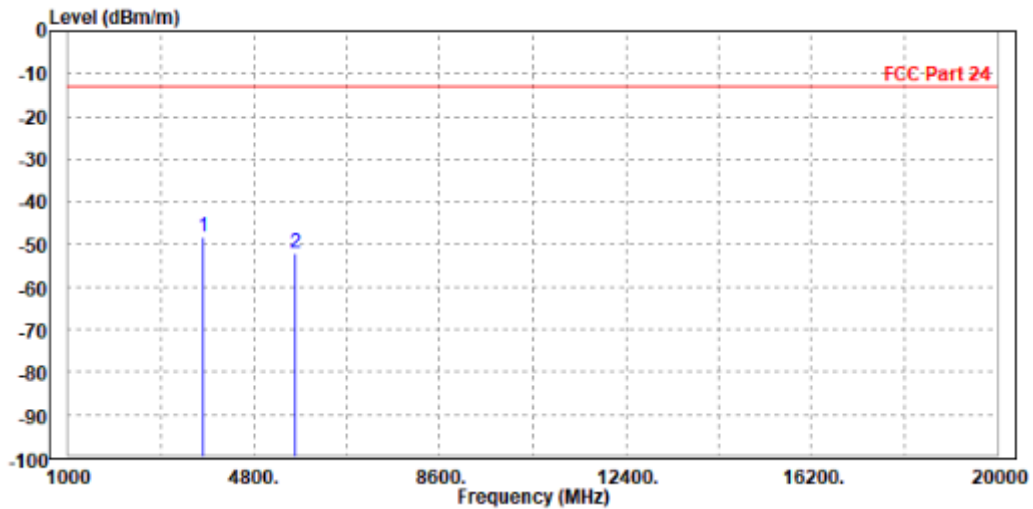
**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

CH18900

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-48.12	-56.97	-13.00	-35.12	8.85	Peak	Horizontal
2	5640.000	-51.98	-62.46	-13.00	-38.98	10.48	Peak	Horizontal



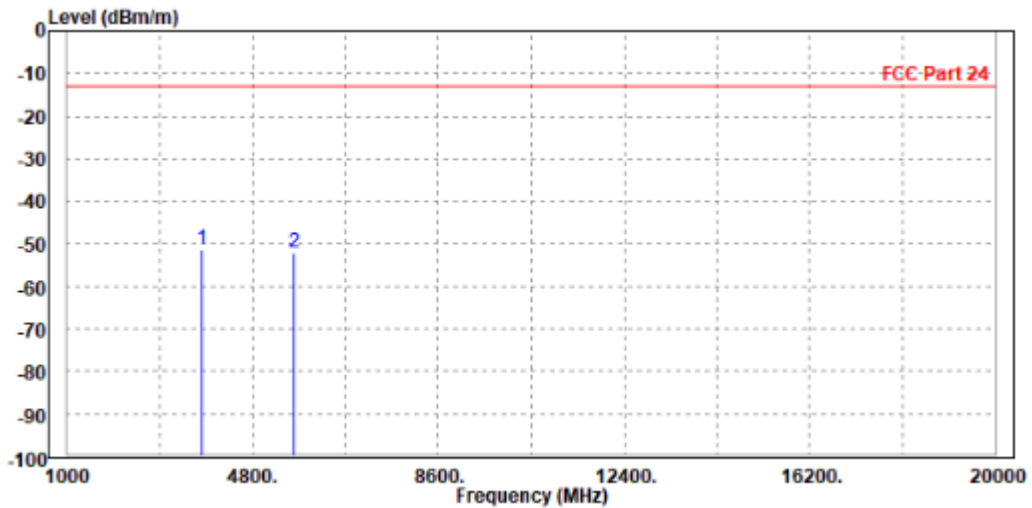


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-51.32	-60.59	-13.00	-38.32	9.27	Peak	Vertical
2	5640.000	-52.26	-62.51	-13.00	-39.26	10.25	Peak	Vertical





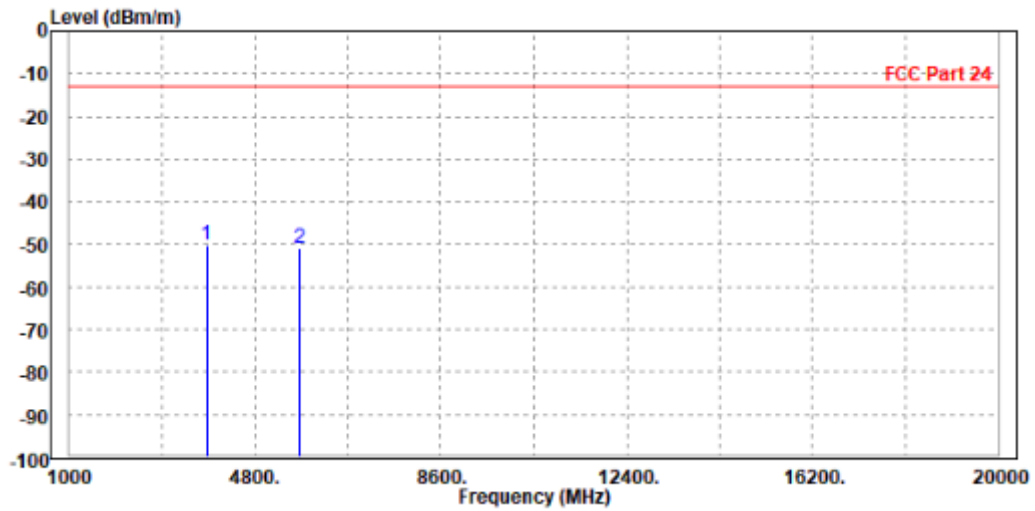
**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

CH19150

MODE	TX channel 19150	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3810.000	-50.24	-59.14	-13.00	-37.24	8.90	Peak	Horizontal
2	5712.000	-51.04	-61.76	-13.00	-38.04	10.72	Peak	Horizontal



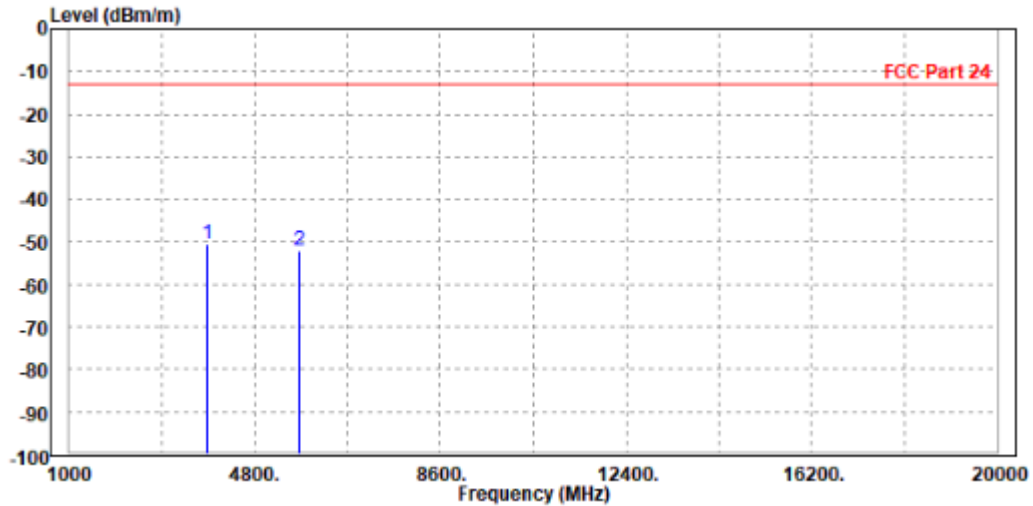


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 19150	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3812.000	-50.50	-59.79	-13.00	-37.50	9.29	Peak	Vertical
2	5715.000	-52.15	-62.69	-13.00	-39.15	10.54	Peak	Vertical





BUREAU VERITAS

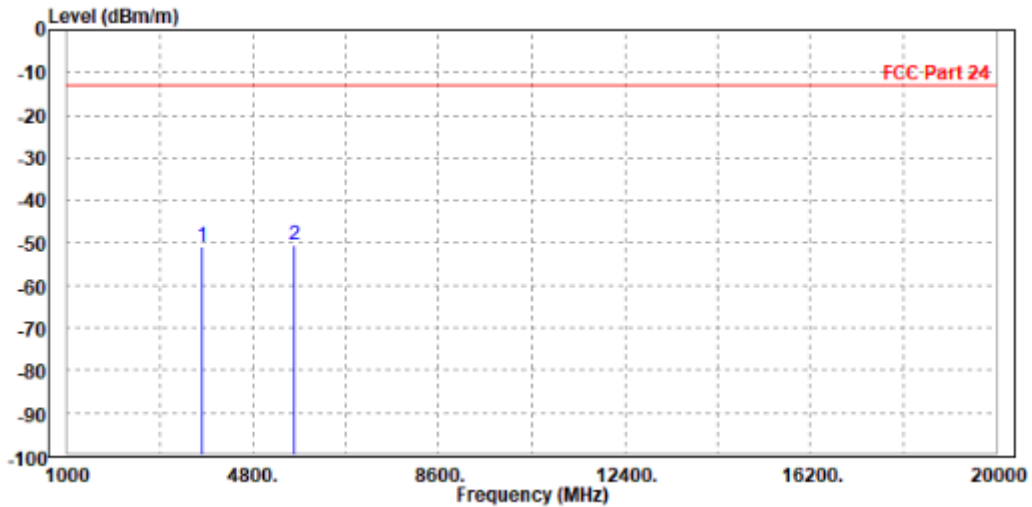
Test Report No.: W7L-P22060025RF05

CHANNEL BANDWIDTH: 15MHz / QPSK

CH18900

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.06	-59.91	-13.00	-38.06	8.85	Peak	Horizontal
2 PP	5640.000	-50.72	-61.20	-13.00	-37.72	10.48	Peak	Horizontal



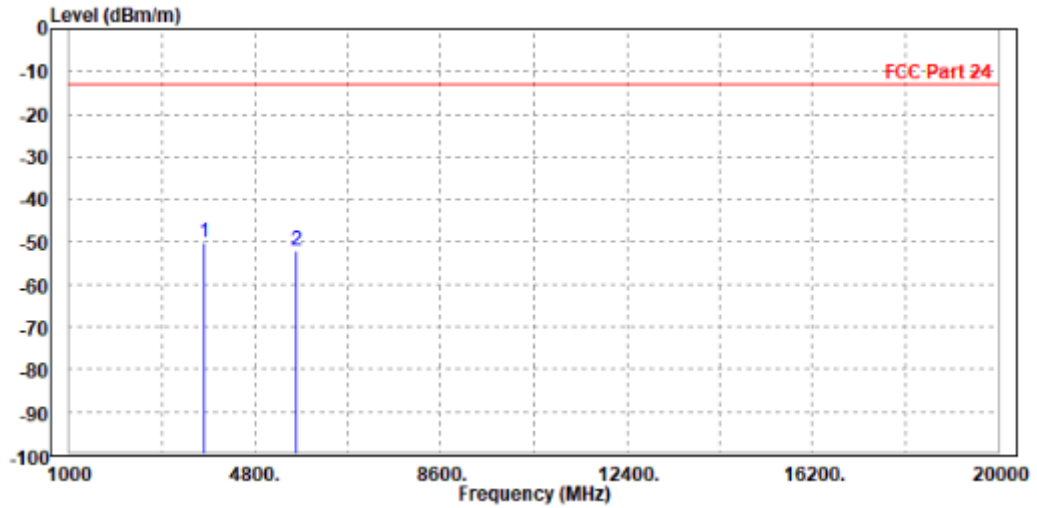


BUREAU VERITAS

Test Report No.: W7L-P22060025RF05

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	Pol/Phase
1 PP 3755.000	-50.10	-59.37	-13.00	-37.10	9.27	Peak Vertical
2 5640.000	-52.14	-62.39	-13.00	-39.14	10.25	Peak Vertical





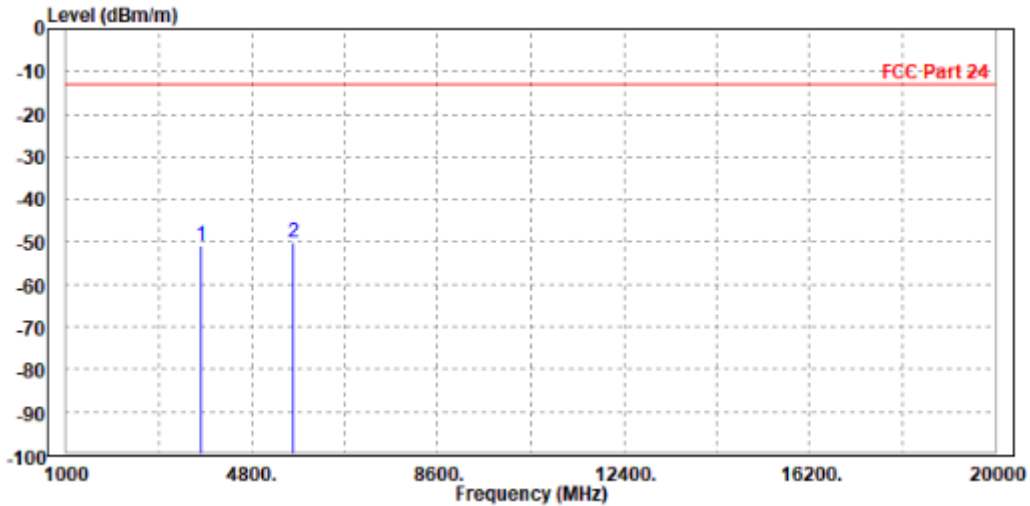
**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-50.99	-59.84	-13.00	-37.99	8.85	Peak	Horizontal
2 PP	5640.000	-50.38	-60.86	-13.00	-37.38	10.48	Peak	Horizontal



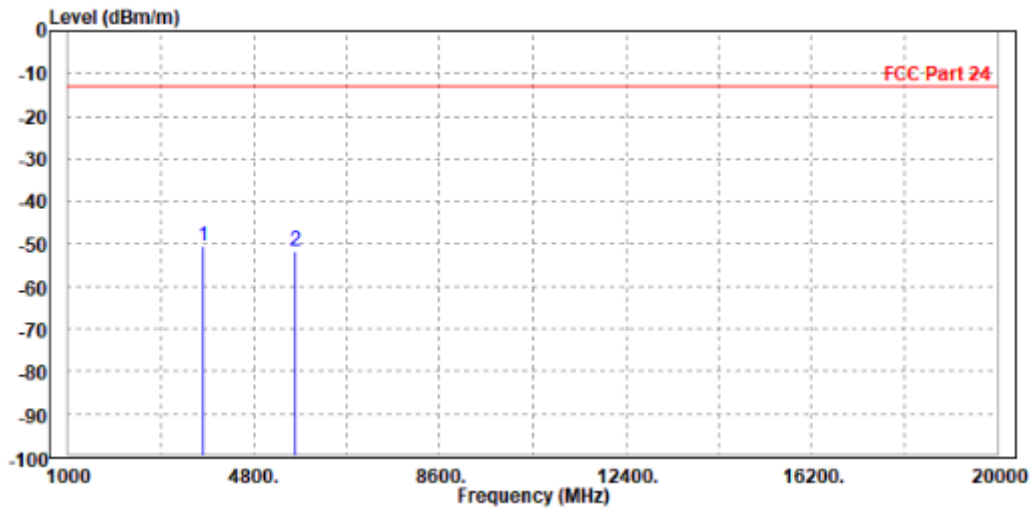


**BUREAU
VERITAS**

Test Report No.: W7L-P22060025RF05

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 50%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-50.54	-59.81	-13.00	-37.54	9.27	Peak	Vertical
2	5640.000	-51.76	-62.01	-13.00	-38.76	10.25	Peak	Vertical



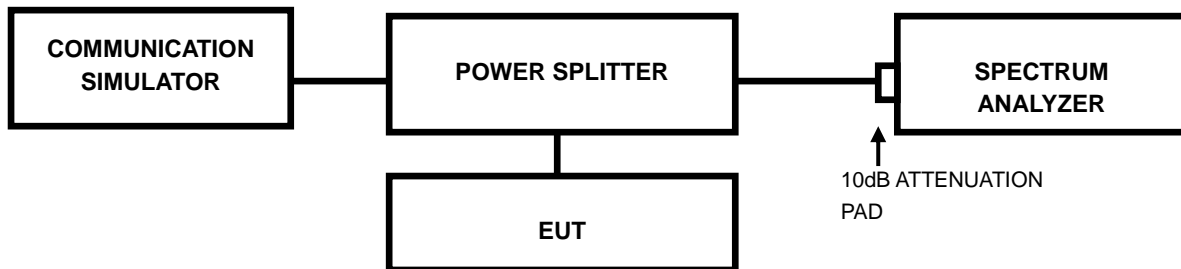


3.7 PEAK TO AVERAGE RATIO

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%.



Test Report No.: W7L-P22060025RF05

3.7.4 TEST RESULTS

NOTE: refer to Module report RF180521W014-2



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Test Report No.: W7L-P22060025RF05

4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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

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Fax: +86-755-88696577

Email: customerservice.sw@cn.bureauveritas.com

Web Site: www.adt.com.tw

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



Test Report No.: W7L-P22060025RF05

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

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

---END---