

FCC TEST REPORT (PART 24)


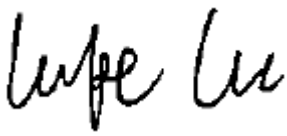
Applicant:	Otis High Rise Elevator (Shanghai) Co., Ltd.
Address:	Room 101, Building 3, No. 1599, Xinjinqiao Road, China (Shanghai) Pilot Free Trade Zone.

Manufacturer or Supplier	Otis High Rise Elevator (Shanghai) Co., Ltd.
Address	Room 101, Building 3, No. 1599, Xinjinqiao Road, China (Shanghai) Pilot Free Trade Zone.
Product	4G IoT Wireless Gateway
Brand Name	Otis ONE[®]
Model Name	C9200-4L
FCC ID	2AUTDC9200-4L
Date of tests	Oct. 23, 2019 ~ Nov. 06, 2019

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 Alex Chen Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
	
Date: Nov. 08, 2019	Date: Nov. 08, 2019

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TABLE OF CONTENTS

RELEASE CONTROL RECORD 4

1 SUMMARY OF TEST RESULTS 5

1.1 MEASUREMENT UNCERTAINTY 5

1.2 TEST SITE AND INSTRUMENTS 7

2 GENERAL INFORMATION 8

2.1 GENERAL DESCRIPTION OF EUT 8

2.2 CONFIGURATION OF SYSTEM UNDER TEST 10

2.3 DESCRIPTION OF SUPPORT UNITS 11

2.4 TEST ITEM AND TEST CONFIGURATION 11

2.5 EUT OPERATING CONDITIONS 12

2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS 13

3 TEST TYPES AND RESULTS 14

3.1 OUTPUT POWER MEASUREMENT 14

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT 14

3.1.2 TEST PROCEDURES 14

3.1.3 TEST SETUP 14

3.1.4 TEST RESULTS 15

3.2 FREQUENCY STABILITY MEASUREMENT 23

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT 23

3.2.2 TEST PROCEDURE 23

3.2.3 TEST SETUP 23

3.2.4 TEST RESULTS 23

3.3 OCCUPIED BANDWIDTH MEASUREMENT 24

3.3.1 TEST PROCEDURES 24

3.3.2 TEST SETUP 24

3.3.3 TEST RESULTS 24

3.4 BAND EDGE MEASUREMENT 25

3.4.1 LIMITS OF BAND EDGE MEASUREMENT 25

3.4.2 TEST SETUP 25

3.4.3 TEST PROCEDURES 26

3.4.4 TEST RESULTS 26

3.5 CONDUCTED SPURIOUS EMISSIONS 27

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT 27

3.5.2 TEST PROCEDURE 27

3.5.3 TEST SETUP 27

3.5.4 TEST RESULTS 27

3.6 RADIATED EMISSION MEASUREMENT 28

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT 28

3.6.2 TEST PROCEDURES 28

3.6.3 DEVIATION FROM TEST STANDARD 28

3.6.4 TEST SETUP 29

3.6.5 TEST RESULTS 30

3.7 PEAK TO AVERAGE RATIO 78

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT 78

3.7.2 TEST SETUP 78

3.7.3 TEST PROCEDURES 78

3.7.4 TEST RESULTS 78



BUREAU VERITAS Test Report No.: RF191023W005-3

4 INFORMATION ON THE TESTING LABORATORIES..... 79

5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB 80



BUREAU
VERITAS

Test Report No.: RF191023W005-3

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF191023W005-3	Original release	Nov. 08, 2019



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

Note: These items please refer to the LTE module report RTWK160705001-00 which The FCC ID is XMR201605EC25A, and the LTE module has been original certified by BACL on 08/17/2016, and the LTE module has been CIIPC certified by BACL on 03/15/2017, and the LTE module has been CIIPC certified by Telefication B.V. on 06/13/2018.The host contains the LTE module.



1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

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



1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,19	Feb. 25,20
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 26,19	Feb. 25,20
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 26,19	Feb. 25,20
Horn Antenna (1GHz-18GHz)	ETS-LINDGREN	3117	00168692	Nov. 30, 18	Nov. 29, 19
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Nov. 21, 18	Nov. 20, 19
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 26,19	Feb. 25,20
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	Feb. 26,19	Feb. 25,20
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. 26,19	Feb. 25,20
Power Sensor	Anritsu	MA2411B	1339352	Feb. 26,19	Feb. 25,20
Humid & Temp Programmable Tester	Juyi	ITH-120-45-CP-AR	IAA1504-001	Jun. 24,19	Jun. 23,20
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 26,19	Feb. 25,20
Power Divider	MCLI/USA	PS2-15	24880	Jul. 09,19	Jul. 08,20

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	4G IoT Wireless Gateway	
BRAND NAME	Otis ONE[®]	
MODEL NAME	C9200-4L	
NOMINAL VOLTAGE	DC 12V	
MODULATION TYPE	WCDMA : BPSK, QPSK LTE Band 2: QPSK, 16QAM	
FREQUENCY RANGE	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	WCDMA	382mW
	LTE Band 2 Channel Bandwidth: 1.4MHz	379mW
	LTE Band 2 Channel Bandwidth: 3MHz	382mW
	LTE Band 2 Channel Bandwidth: 5MHz	385mW
	LTE Band 2 Channel Bandwidth: 10MHz	386mW
	LTE Band 2 Channel Bandwidth: 15MHz	389mW
	LTE Band 2 Channel Bandwidth: 20MHz	394mW
EMISSION DESIGNATOR	WCDMA	4M12F9W
	LTE Band 2 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D
		16QAM: 1M10W7D
	LTE Band 2 Channel Bandwidth: 3MHz	QPSK: 2M76G7D
16QAM: 2M76W7D		



	LTE Band 2 Channel Bandwidth: 5MHz	QPSK: 4M54G7D 16QAM: 4M54W7D
	LTE Band 2 Channel Bandwidth: 10MHz	QPSK: 9M12G7D 16QAM: 9M12W7D
	LTE Band 2 Channel Bandwidth: 15MHz	QPSK: 13M6G7D 16QAM: 13M6W7D
	LTE Band 2 Channel Bandwidth: 20MHz	QPSK: 18M6G7D 16QAM: 18M6W7D
	ANTENNA TYPE	Fixed External antenna with 3dBi gain for ANT0 Fixed External antenna with 3dBi gain for ANT1
	HW VERSION	V1.0.3
	SW VERSION	V1.0.0
	I/O PORTS	Refer to user's manual

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT was powered by the following adapter:

ADAPTER	
BRAND:	ShenZhen Mass Power Electronic Limited
MODEL:	NBS18C120150D5
INPUT:	AC 100-240V, 600mA
OUTPUT:	DC 12V, 1500mA
POWER CORD:	1.2 meter
MANUFACTURER:	Dongguan NB Power Electronic Limited

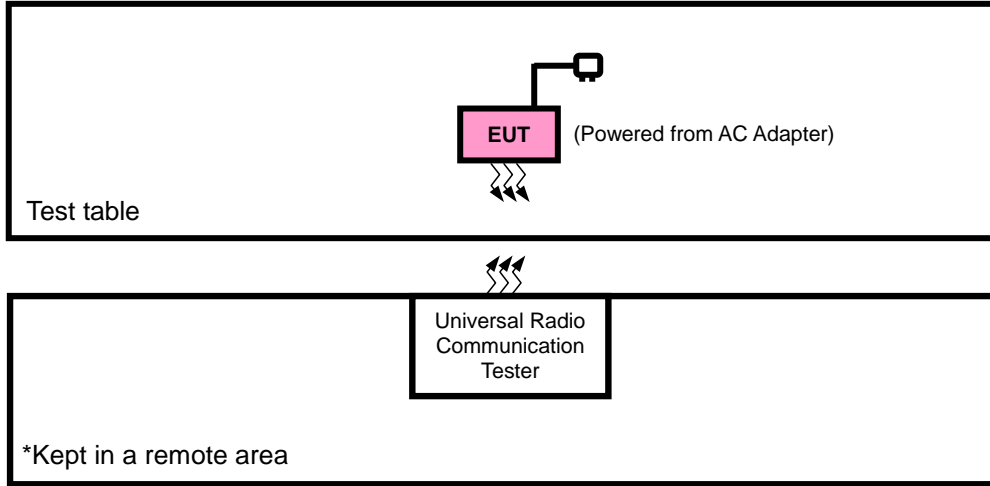
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
-
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
WCDMA	1TX/1RX
LTE	1TX/1RX



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	Adapter	JINGSAI	CLS-050200	N/A	N/A
2	DC source	LONG WEI	PS-6403D	010934269	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	Unshielded, Detachable 1.8m
2	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 radiated emission was found when positioned on X-plane for WCDMA/ LTE. Following channel(s) was (were) selected for the final test as listed below:

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



WCDMA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
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
B	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
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	18650, 18900, 19150	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

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	12Vdc from adapter	Star Le
RADIATED EMISSION	23deg. C, 70%RH	12Vdc from adapter	Star Le

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:

$$ERP \text{ or } EIRP = P_{Meas} + G_T - L_C$$

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);

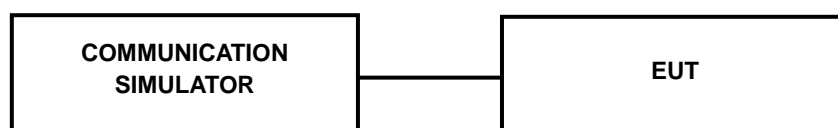
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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

CONDUCTED POWER MEASUREMENT:





3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Base on verify the Conducted Power is the same with module test report RTWK160705001-00 (FCC ID: XMR201605EC25A) by lab, the test results please refer the module Report No.: RTWK160705001-00 (FCC ID: XMR201605EC25A), and the pre-scan data as below.

Band	WCDMA II		
	9262	9400	9538
Channel	1852.4	1880	1907.6
Frequency	1852.4	1880	1907.6
RMC 12.2K	22.31	22.73	22.82
HSDPA Subtest-1	21.33	21.69	21.78
HSDPA Subtest-2	21.30	21.67	21.75
HSDPA Subtest-3	20.85	21.18	21.29
HSDPA Subtest-4	20.83	21.15	21.27
HSUPA Subtest-1	21.35	21.71	21.75
HSUPA Subtest-2	19.36	19.75	19.76
HSUPA Subtest-3	20.36	20.75	20.71
HSUPA Subtest-4	19.37	19.72	19.71
HSUPA Subtest-5	21.40	21.70	21.70
HSPA+ Subtest-1	19.22	19.48	19.42



LTE Band 2							
BW	Modulation	RB Size	RB Offset	Low CH 18607	Mid CH 18900	High CH 19193	3GPP MPR (dB)
				Frequency 1850.7 MHz	Frequency 1880 MHz	Frequency 1909.3 MHz	
2/1.4	QPSK	1	0	22.55	22.59	22.56	0
		1	2	22.75	22.79	22.76	0
		1	5	22.44	22.48	22.45	0
		3	0	22.54	22.58	22.55	0
		3	1	22.74	22.78	22.75	0
		3	3	22.43	22.47	22.44	0
		6	0	21.63	21.67	21.64	1
	16QAM	1	0	21.46	21.50	21.47	1
		1	2	21.65	21.69	21.66	1
		1	5	21.07	21.11	21.08	1
		3	0	21.44	21.48	21.45	1
		3	1	21.63	21.67	21.64	1
		3	3	21.05	21.09	21.06	1
		6	0	20.57	20.61	20.58	2
BW	Modulation	RB Size	RB Offset	Low CH 18615	Mid CH 18900	High CH 19185	3GPP MPR (dB)
				Frequency 1851.5 MHz	Frequency 1880 MHz	Frequency 1908.5 MHz	
2/3	QPSK	1	0	22.58	22.62	22.59	0
		1	7	22.78	22.82	22.79	0
		1	14	22.47	22.51	22.48	0
		8	0	21.87	21.91	21.88	1
		8	3	21.71	21.75	21.72	1
		8	7	21.66	21.70	21.67	1
		15	0	21.66	21.70	21.67	1
	16QAM	1	0	21.49	21.53	21.50	1
		1	7	21.68	21.72	21.69	1
		1	14	21.10	21.14	21.11	1
		8	0	20.63	20.67	20.64	2
		8	3	20.56	20.60	20.57	2
		8	7	20.63	20.67	20.64	2
		15	0	20.60	20.64	20.61	2



LTE Band 2							
BW	Modulation	RB Size	RB Offset	Low CH 18625	Mid CH 18900	High CH 19175	3GPP MPR (dB)
				Frequency 1852.5 MHz	Frequency 1880 MHz	Frequency 1907.5 MHz	
2/5	QPSK	1	0	22.61	22.65	22.62	0
		1	12	22.81	22.85	22.82	0
		1	24	22.50	22.54	22.51	0
		12	0	21.90	21.94	21.91	1
		12	6	21.74	21.78	21.75	1
		12	13	21.69	21.73	21.70	1
		25	0	21.69	21.73	21.70	1
	16QAM	1	0	21.52	21.56	21.53	1
		1	12	21.71	21.75	21.72	1
		1	24	21.13	21.17	21.14	1
		12	0	20.66	20.70	20.67	2
		12	6	20.59	20.63	20.60	2
		12	13	20.66	20.70	20.67	2
		25	0	20.63	20.67	20.64	2
BW	Modulation	RB Size	RB Offset	Low CH 18650	Mid CH 18900	High CH 19150	3GPP MPR (dB)
				Frequency 1855 MHz	Frequency 1880 MHz	Frequency 1905 MHz	
2/10	QPSK	1	0	22.63	22.67	22.64	0
		1	24	22.83	22.87	22.84	0
		1	49	22.52	22.56	22.53	0
		25	0	21.92	21.96	21.93	1
		25	12	21.76	21.80	21.77	1
		25	25	21.71	21.75	21.72	1
		50	0	21.71	21.75	21.72	1
	16QAM	1	0	21.54	21.58	21.55	1
		1	24	21.73	21.77	21.74	1
		1	49	21.15	21.19	21.16	1
		25	0	20.68	20.72	20.69	2
		25	12	20.61	20.65	20.62	2
		25	25	20.68	20.72	20.69	2
		50	0	20.65	20.69	20.66	2



LTE Band 2							
BW	Modulation	RB Size	RB Offset	Low CH 18675	Mid CH 18900	High CH 19125	3GPP MPR (dB)
				Frequency 1857.5 MHz	Frequency 1880 MHz	Frequency 1902.5 MHz	
2/15	QPSK	1	0	22.66	22.70	22.67	0
		1	37	22.86	22.90	22.87	0
		1	74	22.55	22.59	22.56	0
		36	0	21.95	21.99	21.96	1
		36	19	21.79	21.83	21.80	1
		36	39	21.74	21.78	21.75	1
		75	0	21.74	21.78	21.75	1
	16QAM	1	0	21.57	21.61	21.58	1
		1	37	21.76	21.80	21.77	1
		1	74	21.18	21.22	21.19	1
		36	0	20.71	20.75	20.72	2
		36	19	20.64	20.68	20.65	2
		36	39	20.71	20.75	20.72	2
		75	0	20.68	20.72	20.69	2
BW	Modulation	RB Size	RB Offset	Low CH 18700	Mid CH 18900	High CH 19100	3GPP MPR (dB)
				Frequency 1860 MHz	Frequency 1880 MHz	Frequency 1900 MHz	
2/20	QPSK	1	0	22.71	22.75	22.72	0
		1	50	22.91	22.95	22.92	0
		1	99	22.60	22.64	22.61	0
		50	0	22.00	22.04	22.01	1
		50	25	21.84	21.88	21.85	1
		50	50	21.79	21.83	21.80	1
		100	0	21.79	21.83	21.80	1
	16QAM	1	0	21.62	21.66	21.63	1
		1	50	21.81	21.85	21.82	1
		1	99	21.23	21.27	21.24	1
		50	0	20.76	20.80	20.77	2
		50	25	20.69	20.73	20.70	2
		50	50	20.76	20.80	20.77	2
		100	0	20.73	20.77	20.74	2



EIRP POWER (dBm)

WCDMA II

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
9262	1852.4	22.31	3.00	25.31	339.63	2
9400	1880.0	22.73	3.00	25.73	374.11	2
9538	1907.6	22.82	3.00	25.82	381.94	2

LTE BAND 2

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	22.75	3.00	25.75	375.84	2
18900	1880.0	22.79	3.00	25.79	379.31	2
19193	1908.3	22.76	3.00	25.76	376.7	2

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	21.65	3.00	24.65	291.74	2
18900	1880.0	21.69	3.00	24.69	294.44	2
19193	1908.3	21.66	3.00	24.66	292.42	2



CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	22.78	3.00	25.78	378.44	2
18900	1880.0	22.82	3.00	25.82	381.94	2
19185	1908.5	22.79	3.00	25.79	379.31	2

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	21.68	3.00	24.68	293.76	2
18900	1880.0	21.72	3.00	24.72	296.48	2
19185	1908.5	21.69	3.00	24.69	294.44	2

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	22.81	3.00	25.81	381.07	2
18900	1880.0	22.85	3.00	25.85	384.59	2
19175	1907.5	22.82	3.00	25.82	381.94	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	21.71	3.00	24.71	295.8	2
18900	1880.0	21.75	3.00	24.75	298.54	2
19175	1907.5	21.72	3.00	24.72	296.48	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	22.83	3.00	25.83	382.82	2
18900	1880.0	22.87	3.00	25.87	386.37	2
19150	1905.0	22.84	3.00	25.84	383.71	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	21.73	3.00	24.73	297.17	2
18900	1880.0	21.77	3.00	24.77	299.92	2
19150	1905.0	21.74	3.00	24.74	297.85	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	22.86	3.00	25.86	385.48	2
18900	1880.0	22.90	3.00	25.90	389.05	2
19125	1902.5	22.87	3.00	25.87	386.37	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	21.76	3.00	24.76	299.23	2
18900	1880.0	21.80	3.00	24.80	302	2
19125	1902.5	21.77	3.00	24.77	299.92	2



CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	22.91	3.00	25.91	389.94	2
18900	1880.0	22.95	3.00	25.95	393.55	2
19125	1902.5	22.92	3.00	25.92	390.84	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	21.81	3.00	24.81	302.69	2
18900	1880.0	21.85	3.00	24.85	305.49	2
19125	1902.5	21.82	3.00	24.82	303.39	2



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

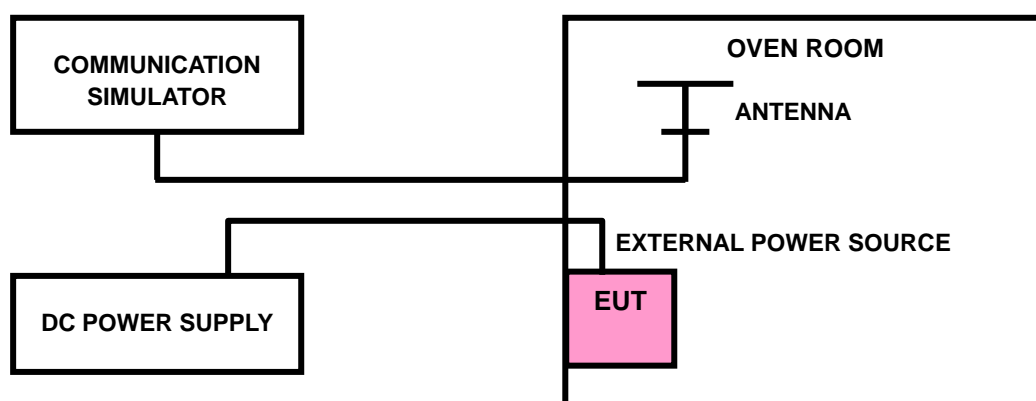
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.2.2 TEST PROCEDURE

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

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP



3.2.4 TEST RESULTS

The test results was recorded in Report No.: RTWK160705001-00 (FCC ID: XMR201605EC25A).

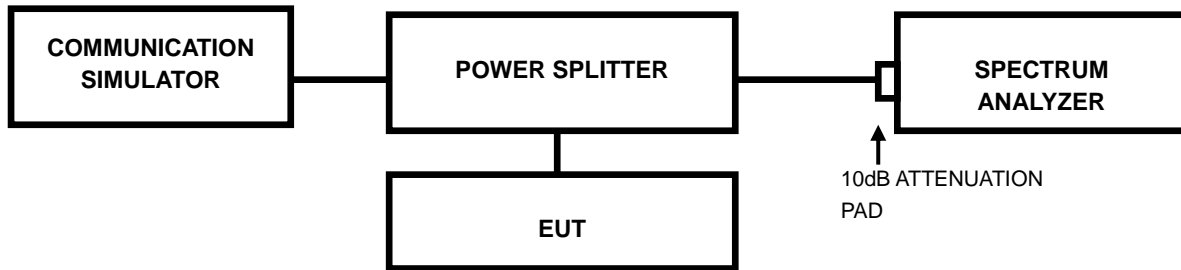


3.3 OCCUPIED BANDWIDTH MEASUREMENT

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.: RTWK160705001-00 (FCC ID: XMR201605EC25A).

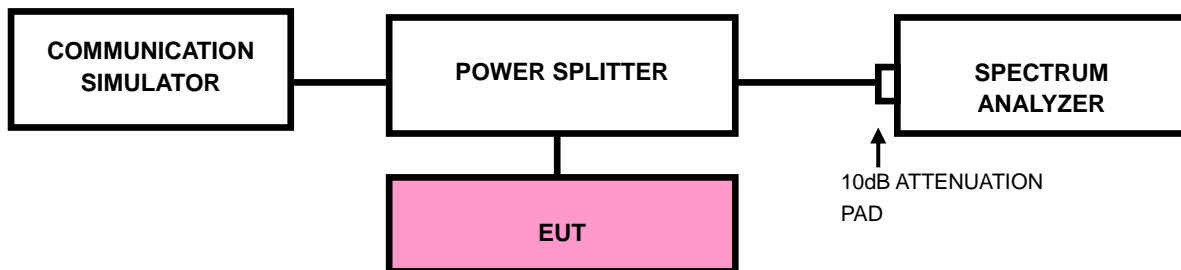


3.4 BAND EDGE MEASUREMENT

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 10MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (WCDMA).
- c. Record the max trace plot into the test report.

3.4.4. TEST RESULTS

The test results was recorded in Report No.: RTWK160705001-00 (FCC ID: XMR201605EC25A).



3.5 CONDUCTED SPURIOUS EMISSIONS

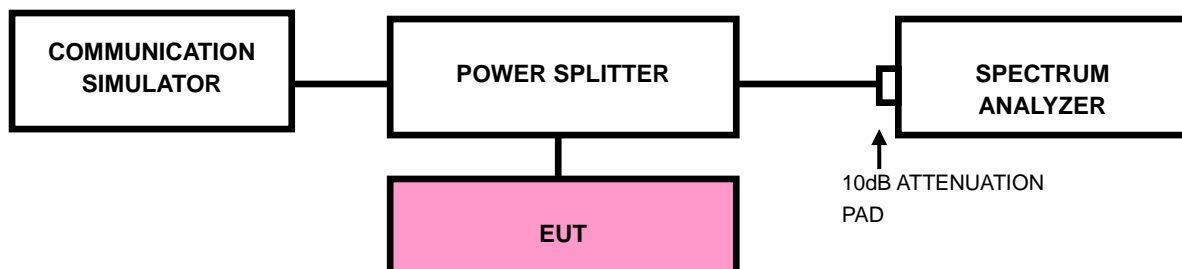
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

- 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 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



3.5.4 TEST RESULTS

The test results was recorded in Report No.: RTWK160705001-00 (FCC ID: XMR201605EC25A).



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.

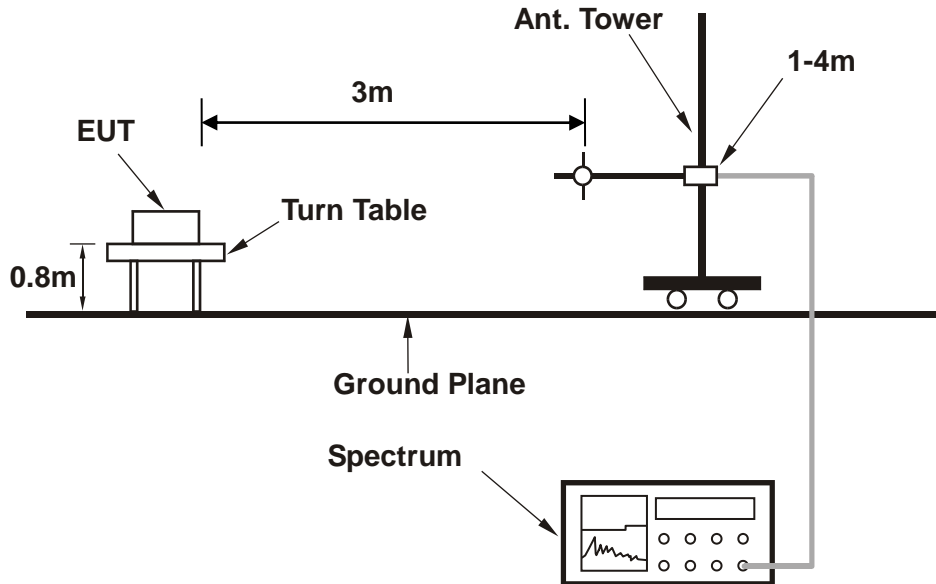
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

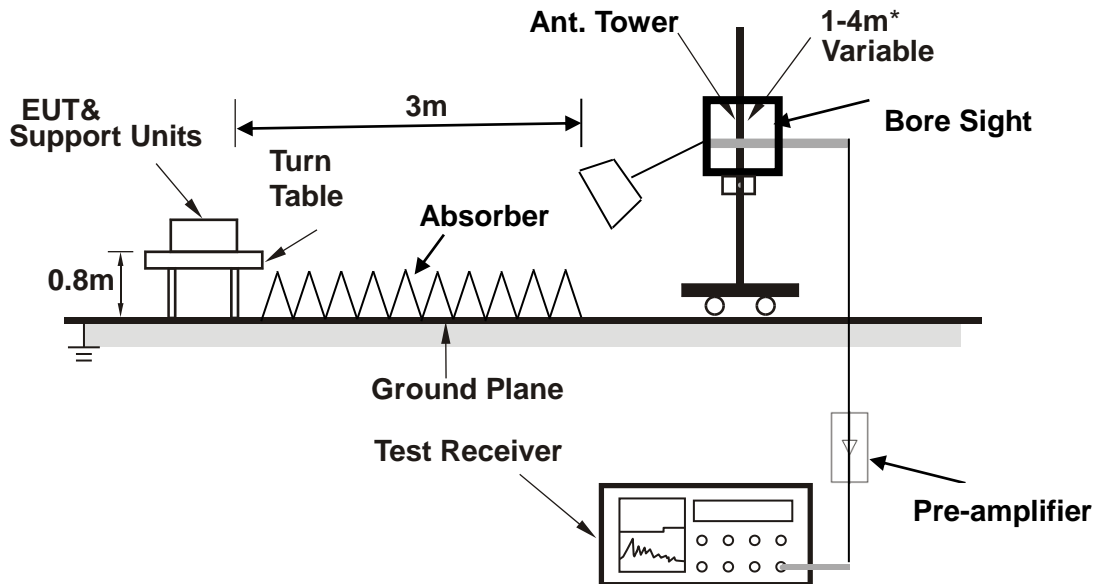


3.6.4 TEST SETUP

< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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



3.6.5 TEST RESULTS

Ant 0

BELOW 1GHz WORST-CASE DATA

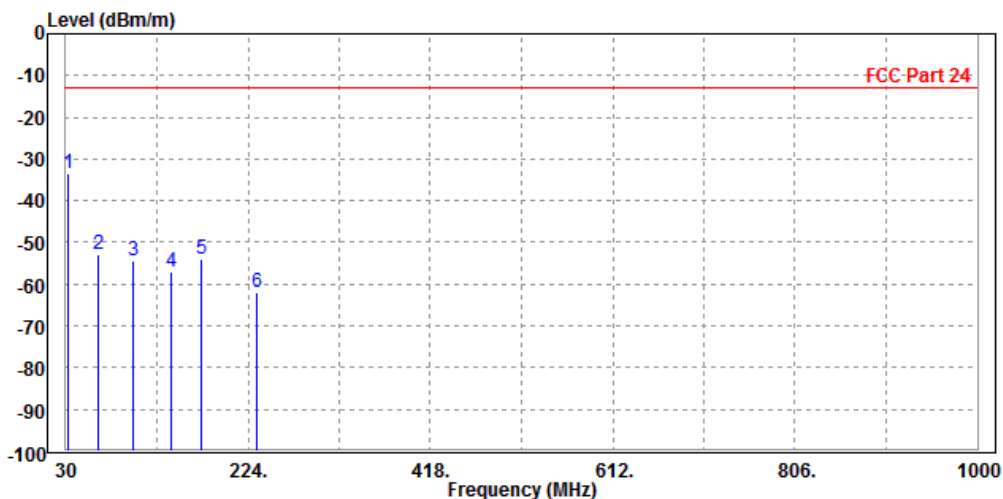
30 MHz – 1GHz data:

LTE Band 2

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	31.850	-33.56	-50.36	-13.00	-20.56	16.80	Peak	Horizontal
2		65.220	-52.87	-42.99	-13.00	-39.87	-9.88	Peak	Horizontal
3		100.998	-54.24	-42.88	-13.00	-41.24	-11.36	Peak	Horizontal
4		141.520	-56.89	-37.67	-13.00	-43.89	-19.22	Peak	Horizontal
5		173.850	-54.15	-36.17	-13.00	-41.15	-17.98	Peak	Horizontal
6		233.170	-61.94	-45.34	-13.00	-48.94	-16.60	Peak	Horizontal



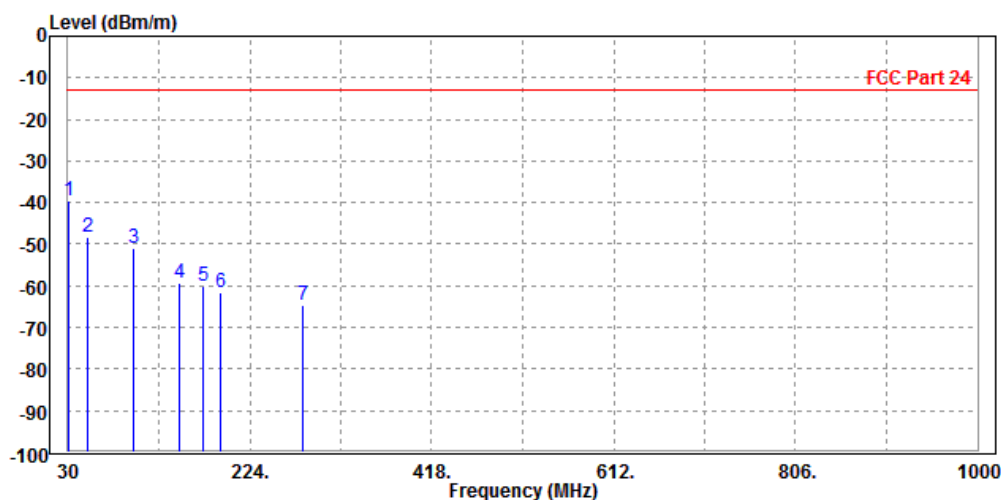


**BUREAU
VERITAS**

Test Report No.: RF191023W005-3

MODE	TX channel 18900	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	31.650	-39.45	-42.58	-13.00	-26.45	3.13 Peak	Vertical
2		51.680	-48.12	-42.12	-13.00	-35.12	-6.00 Peak	Vertical
3		100.254	-50.82	-40.11	-13.00	-37.82	-10.71 Peak	Vertical
4		148.660	-59.20	-43.22	-13.00	-46.20	-15.98 Peak	Vertical
5		174.210	-60.00	-46.22	-13.00	-47.00	-13.78 Peak	Vertical
6		192.220	-61.76	-50.14	-13.00	-48.76	-11.62 Peak	Vertical
7		280.330	-64.61	-53.23	-13.00	-51.61	-11.38 Peak	Vertical





ABOVE 1GHz DATA

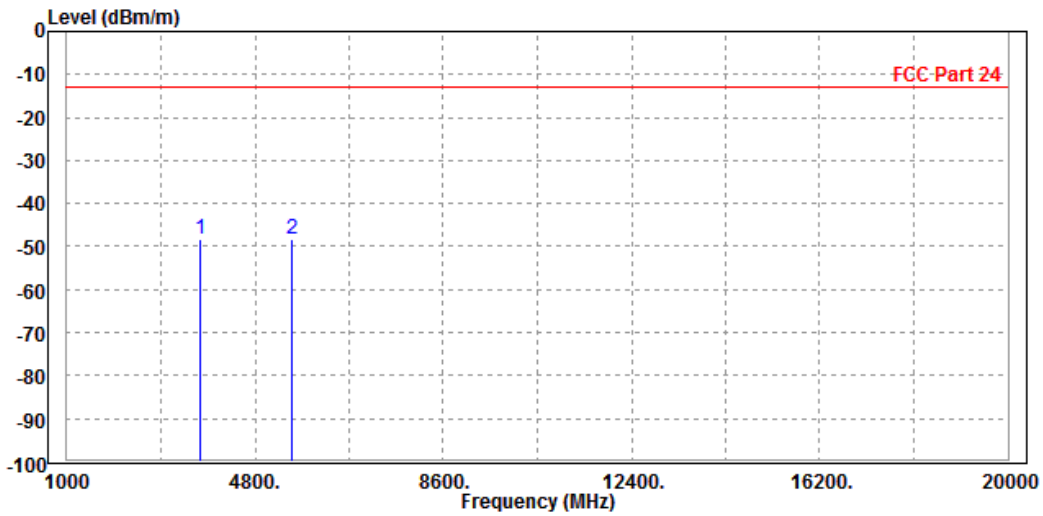
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band II

CH 9262

MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

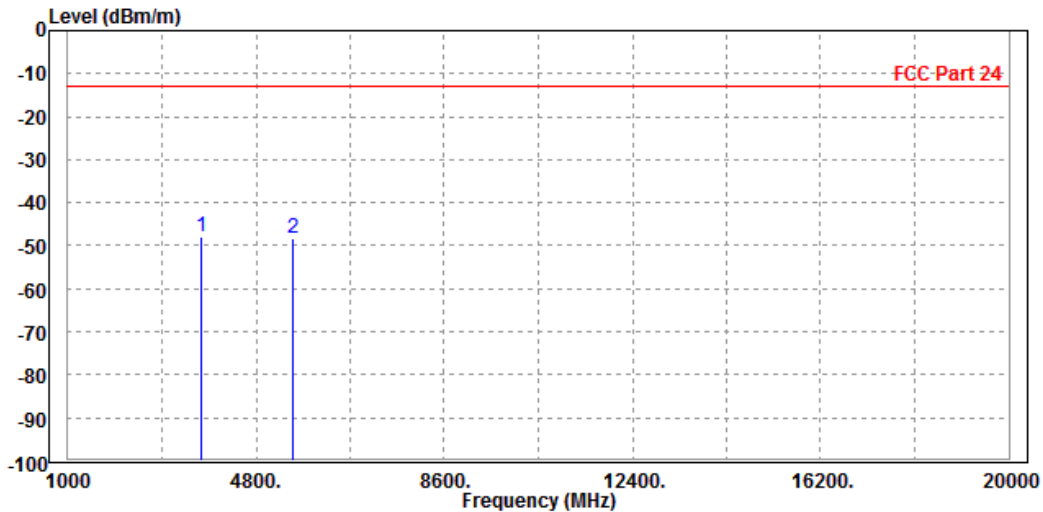
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3698.000	-48.24	-57.02	-13.00	-35.24	8.78	Peak	Horizontal
2	PP 5557.200	-48.10	-58.31	-13.00	-35.10	10.21	Peak	Horizontal





MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.87	-57.12	-13.00	-34.87	9.25	Peak	Vertical
2	5557.200	-48.41	-58.34	-13.00	-35.41	9.93	Peak	Vertical





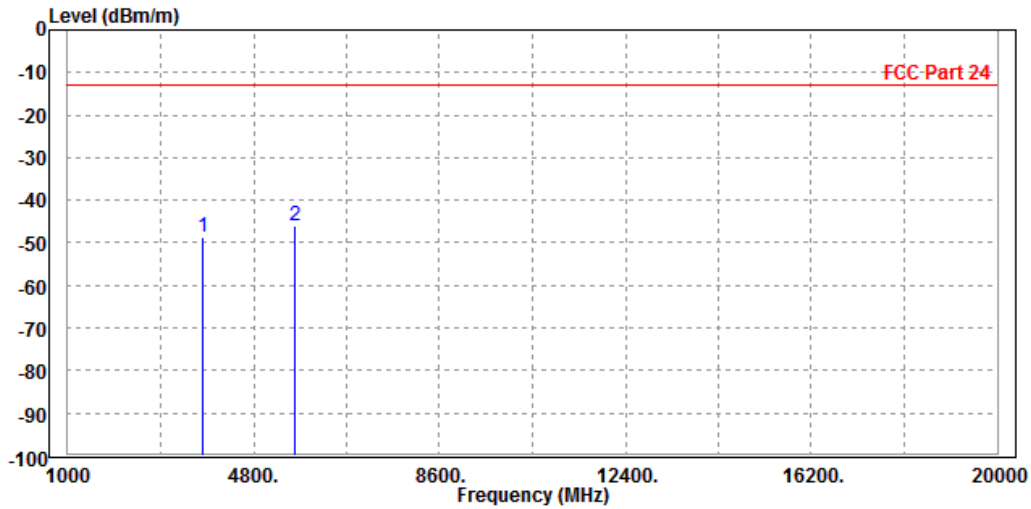
BUREAU VERITAS

Test Report No.: RF191023W005-3

CH 9400

MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-48.76	-57.61	-13.00	-35.76	8.85	Peak	Horizontal
2 PP	5640.000	-46.13	-56.61	-13.00	-33.13	10.48	Peak	Horizontal



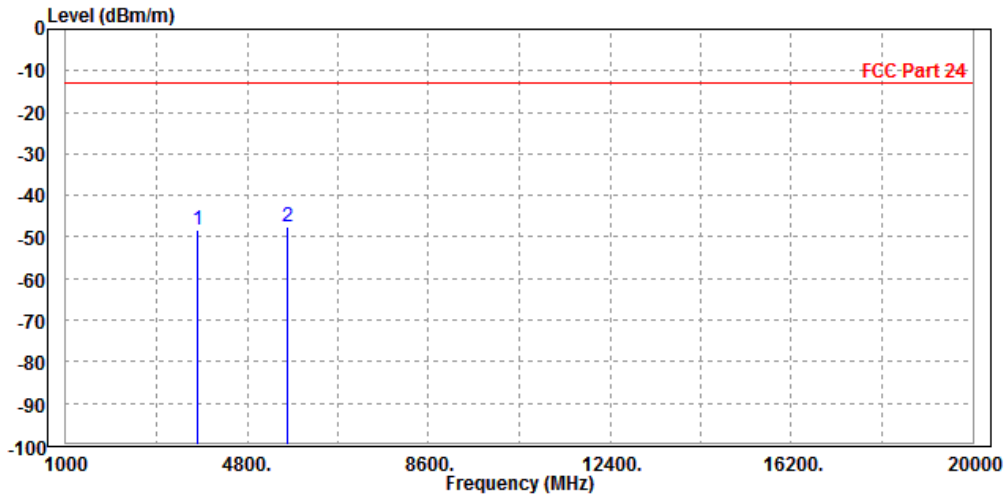


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VERITAS**

Test Report No.: RF191023W005-3

MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-48.33	-57.60	-13.00	-35.33	9.27	Peak	Vertical
2	PP 5640.000	-47.35	-57.60	-13.00	-34.35	10.25	Peak	Vertical

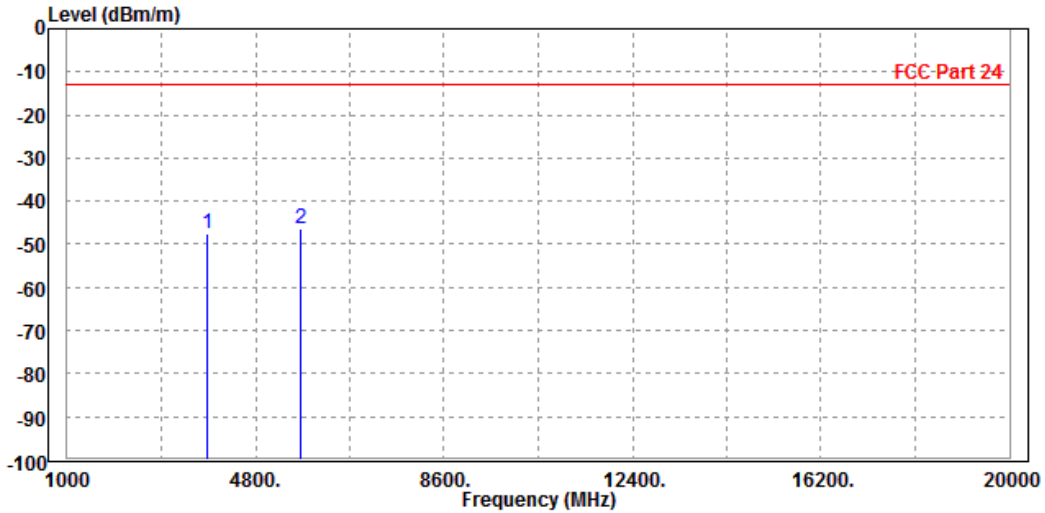




CH 9538

MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.58	-56.49	-13.00	-34.58	8.91	Peak	Horizontal
2 PP	5721.000	-46.27	-57.02	-13.00	-33.27	10.75	Peak	Horizontal



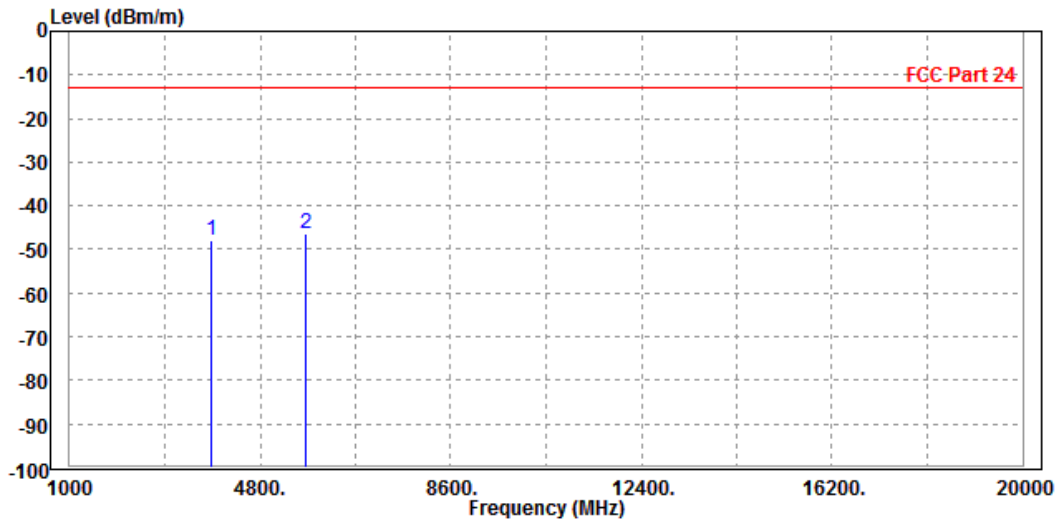


**BUREAU
VERITAS**

Test Report No.: RF191023W005-3

MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.79	-57.08	-13.00	-34.79	9.29	Peak	Vertical
2	PP 5721.000	-46.47	-57.03	-13.00	-33.47	10.56	Peak	Vertical





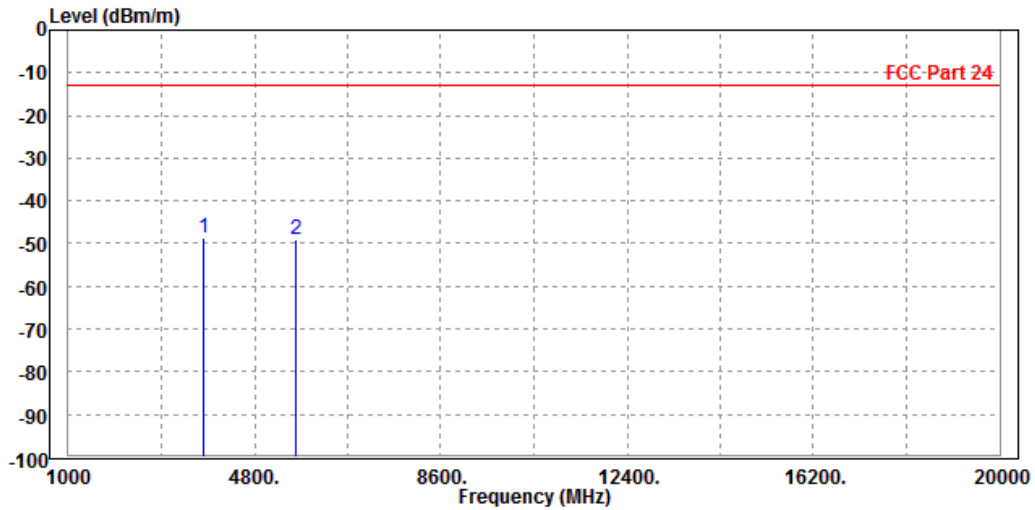
BUREAU VERITAS Test Report No.: RF191023W005-3

LTE Band 2

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-48.79	-57.64	-13.00	-35.79	8.85	Peak	Horizontal
2	5640.000	-48.88	-59.36	-13.00	-35.88	10.48	Peak	Horizontal



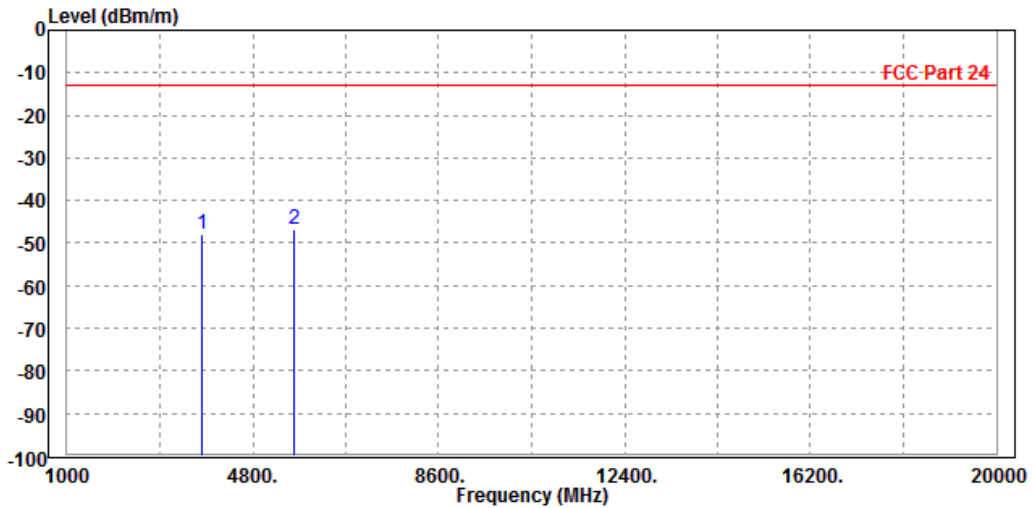


**BUREAU
VERITAS**

Test Report No.: RF191023W005-3

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-48.10	-57.37	-13.00	-35.10	9.27	Peak	Vertical
2 PP	5640.000	-46.87	-57.12	-13.00	-33.87	10.25	Peak	Vertical

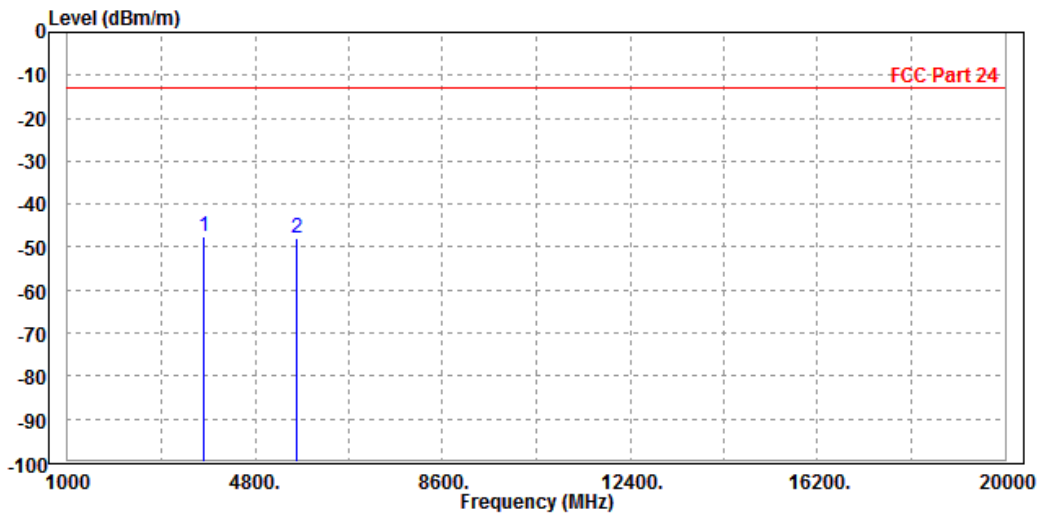




CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

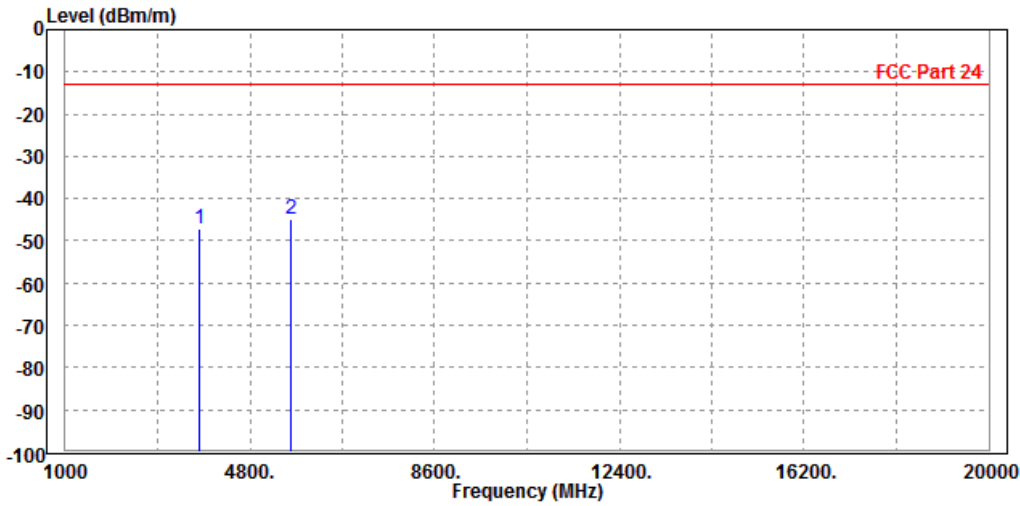
	Freq	Read Level	Limit Level	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	PP 3760.000	-47.60	-56.45	-13.00	-34.60	8.85 Peak	Horizontal
2	5640.000	-47.94	-58.42	-13.00	-34.94	10.48 Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.30	-56.57	-13.00	-34.30	9.27	Peak	Vertical
2 PP	5640.000	-44.96	-55.21	-13.00	-31.96	10.25	Peak	Vertical





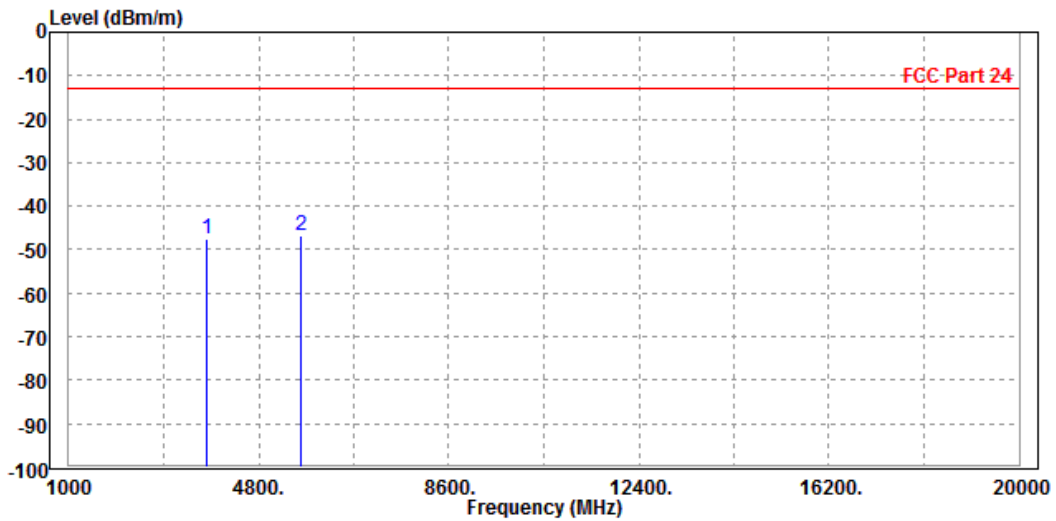
BUREAU VERITAS

Test Report No.: RF191023W005-3

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.68	-56.53	-13.00	-34.68	8.85	Peak	Horizontal
2 PP	5640.000	-46.94	-57.42	-13.00	-33.94	10.48	Peak	Horizontal



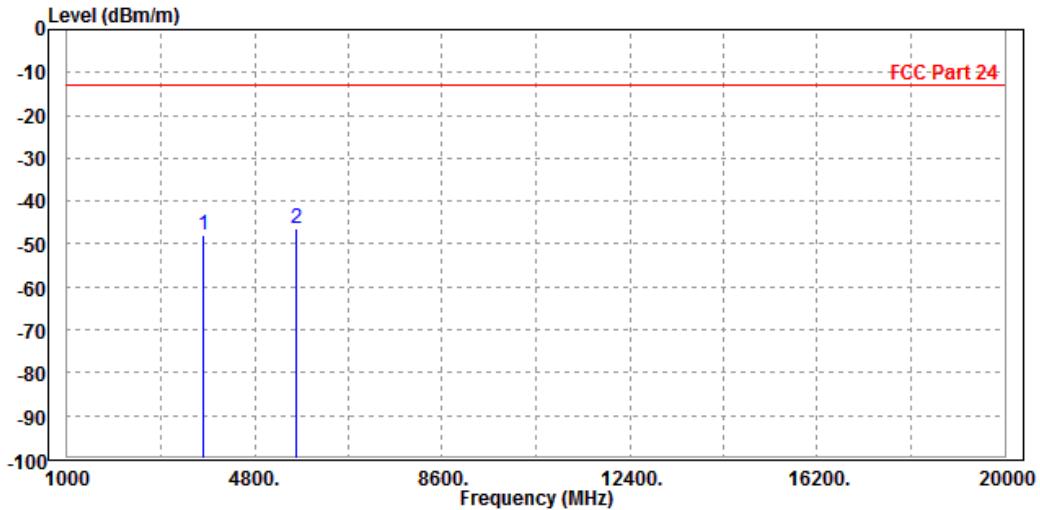


BUREAU VERITAS

Test Report No.: RF191023W005-3

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.72	-56.99	-13.00	-34.72	9.27	Peak	Vertical
2	PP 5640.000	-46.50	-56.75	-13.00	-33.50	10.25	Peak	Vertical



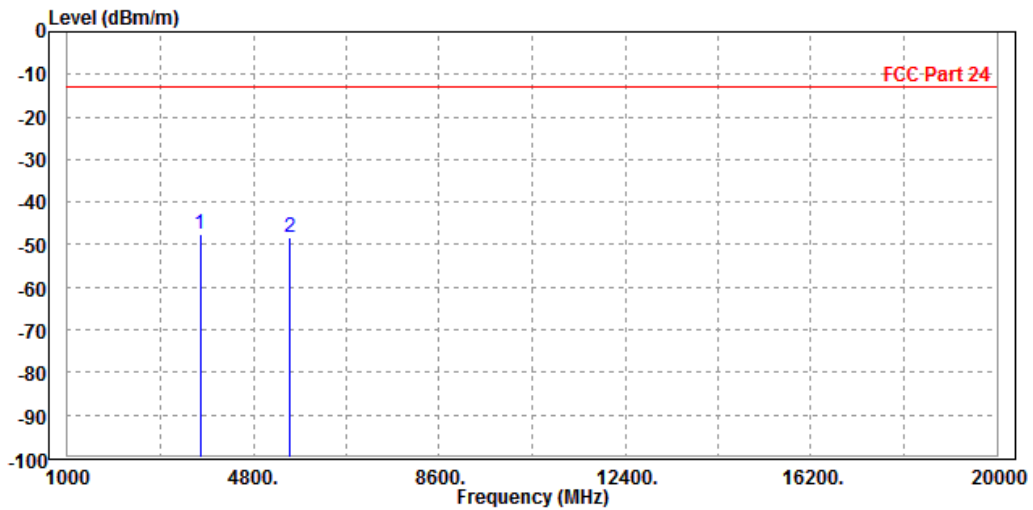


CHANNEL BANDWIDTH: 10MHz / QPSK

CH 18650

MODE	TX channel 18650	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

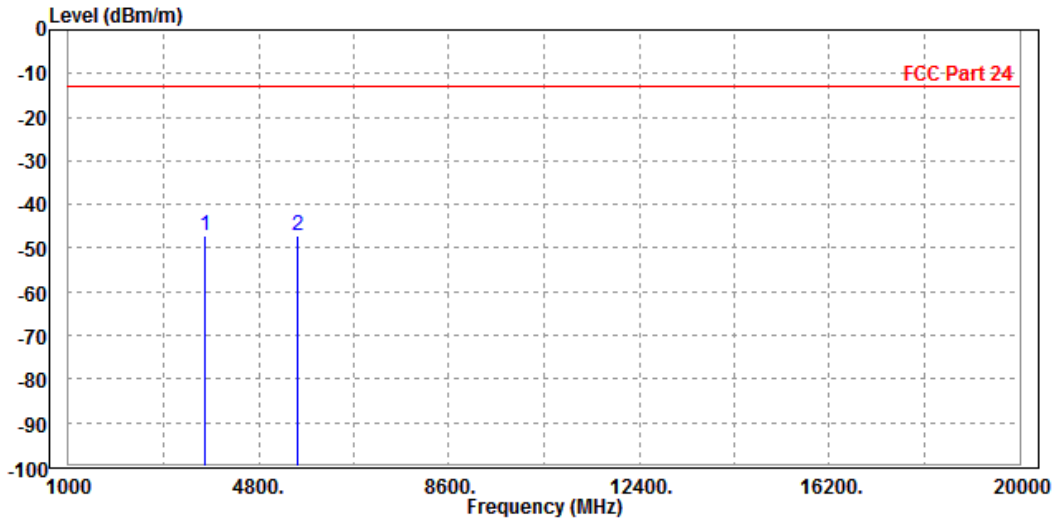
	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 3710.000	-47.71	-56.51	-13.00	-34.71	8.80	Peak	Horizontal
2 5560.000	-48.25	-58.47	-13.00	-35.25	10.22	Peak	Horizontal





MODE	TX channel 18650	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	3717.000	-47.28	-56.54	-13.00	-34.28	9.26	Peak	Vertical
2 PP	5565.000	-47.17	-57.13	-13.00	-34.17	9.96	Peak	Vertical

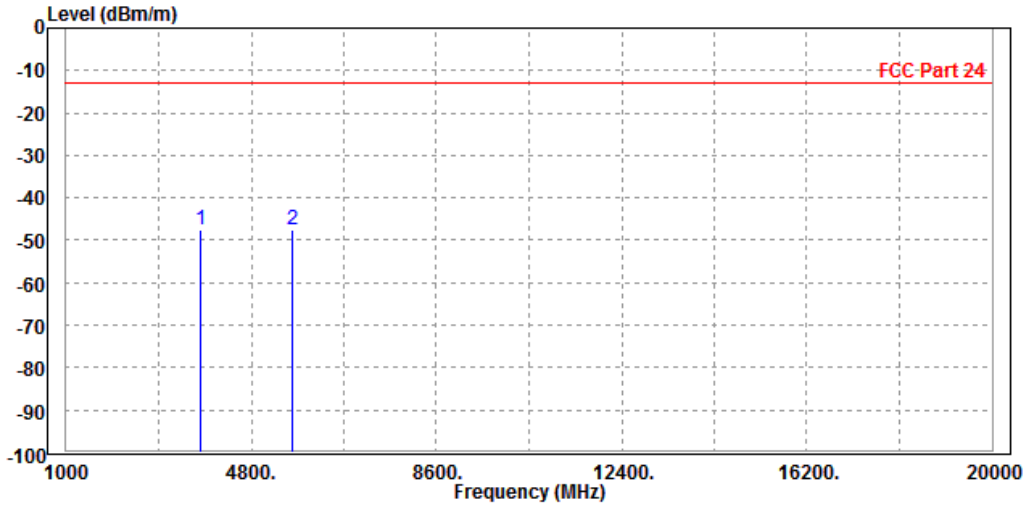




CH 18900

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

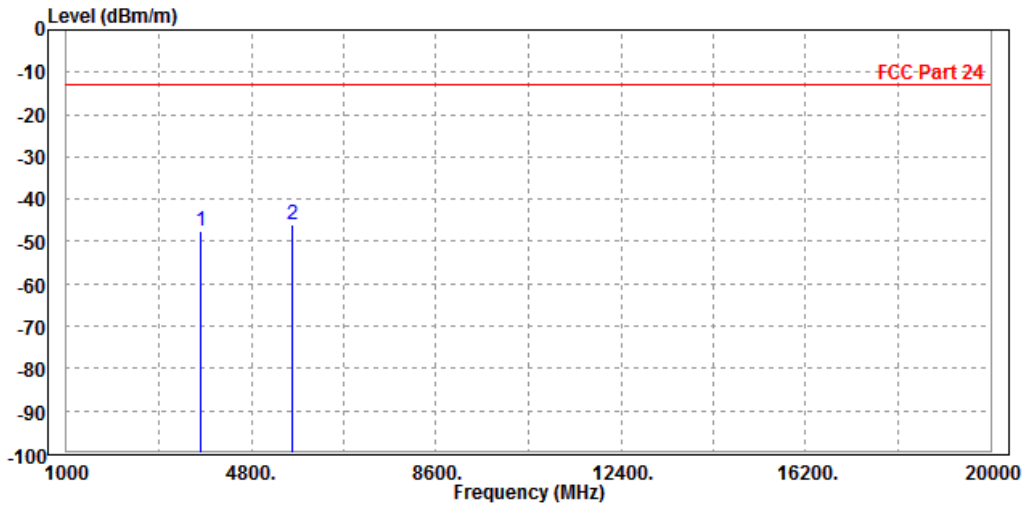
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-47.47	-56.32	-13.00	-34.47	8.85	Peak	Horizontal
2	5640.000	-47.56	-58.04	-13.00	-34.56	10.48	Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.65	-56.92	-13.00	-34.65	9.27	Peak	Vertical
2 PP	5640.000	-46.17	-56.42	-13.00	-33.17	10.25	Peak	Vertical

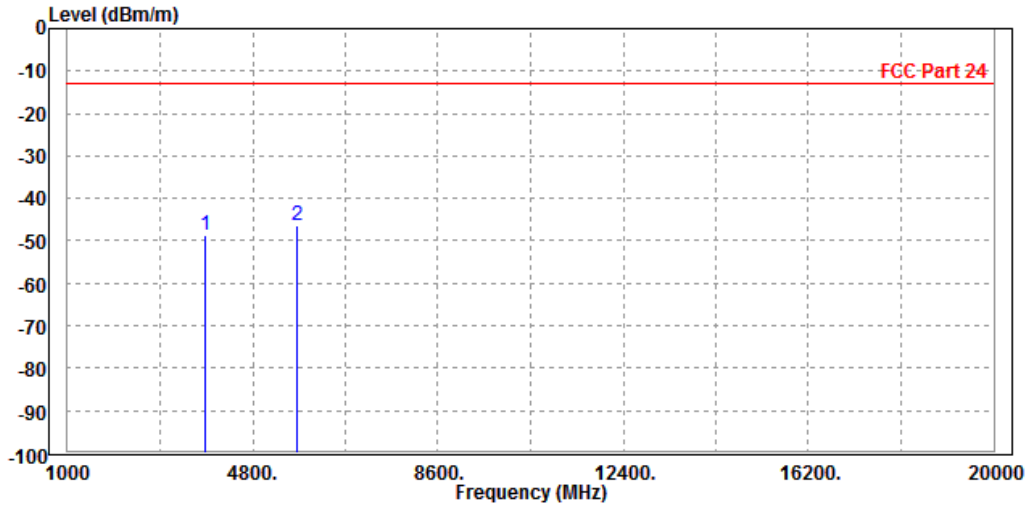




CH 19150

MODE	TX channel 19150	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-48.52	-57.43	-13.00	-35.52	8.91	Peak	Horizontal
2	PP 5715.000	-46.22	-56.95	-13.00	-33.22	10.73	Peak	Horizontal



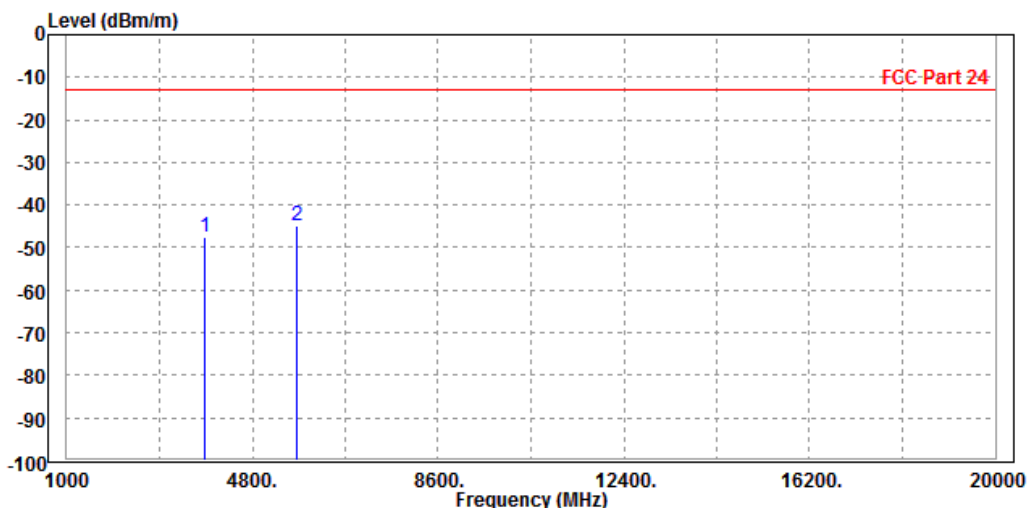


BUREAU VERITAS

Test Report No.: RF191023W005-3

MODE	TX channel 19150	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.48	-56.77	-13.00	-34.48	9.29	Peak	Vertical
2 PP	5715.000	-44.84	-55.38	-13.00	-31.84	10.54	Peak	Vertical

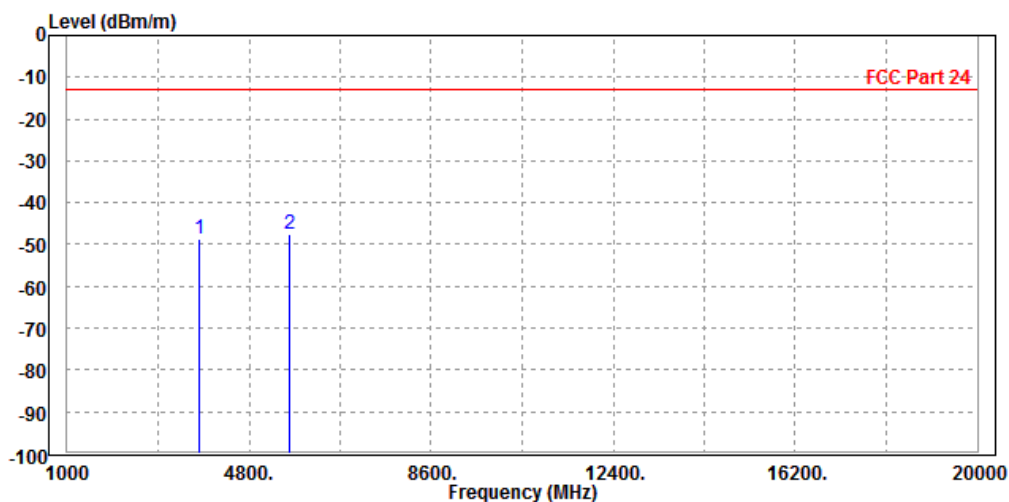




CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

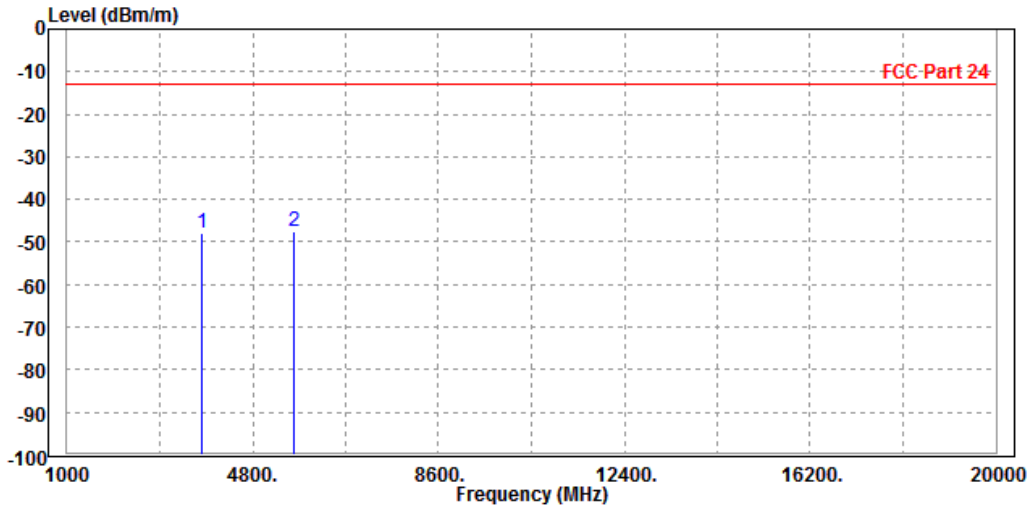
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-48.62	-57.47	-13.00	-35.62	8.85	Peak	Horizontal
2 PP	5640.000	-47.42	-57.90	-13.00	-34.42	10.48	Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.73	-57.00	-13.00	-34.73	9.27	Peak	Vertical
2 PP	5640.000	-47.70	-57.95	-13.00	-34.70	10.25	Peak	Vertical

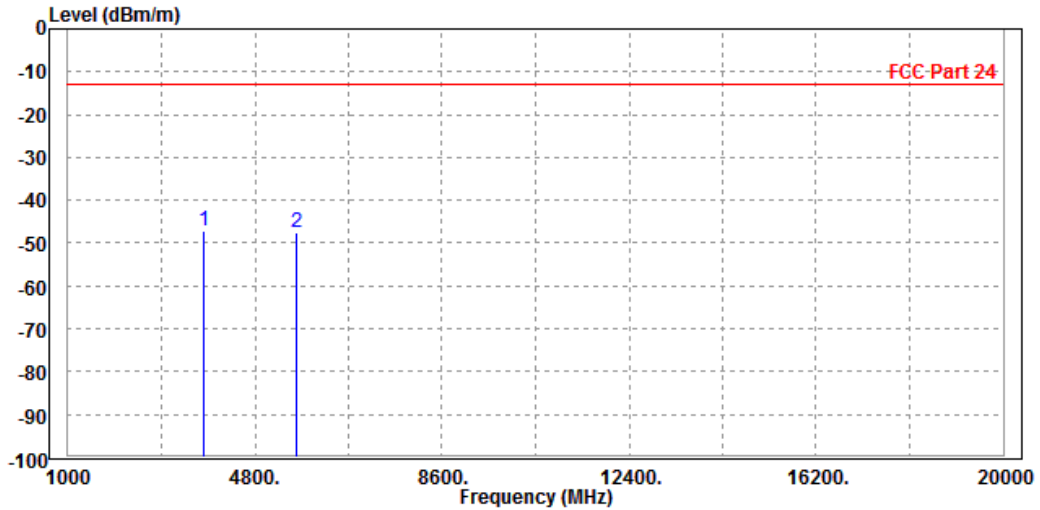




CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

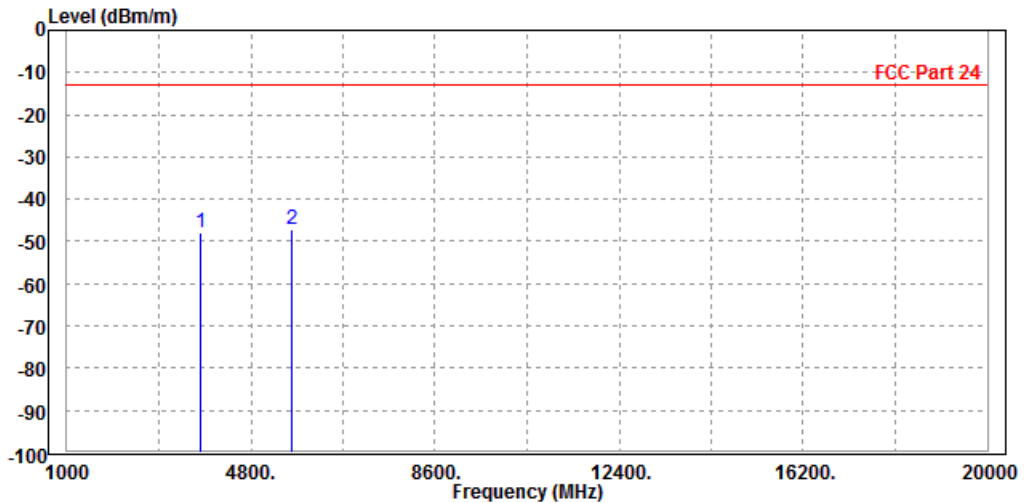
	Freq	Level	Read Level	Limit	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-47.26	-56.11	-13.00	-34.26	8.85	Peak	Horizontal
2	5640.000	-47.36	-57.84	-13.00	-34.36	10.48	Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-47.73	-57.00	-13.00	-34.73	9.27	Peak	Vertical
2 PP	5640.000	-47.16	-57.41	-13.00	-34.16	10.25	Peak	Vertical





Ant 1

BELOW 1GHz WORST-CASE DATA

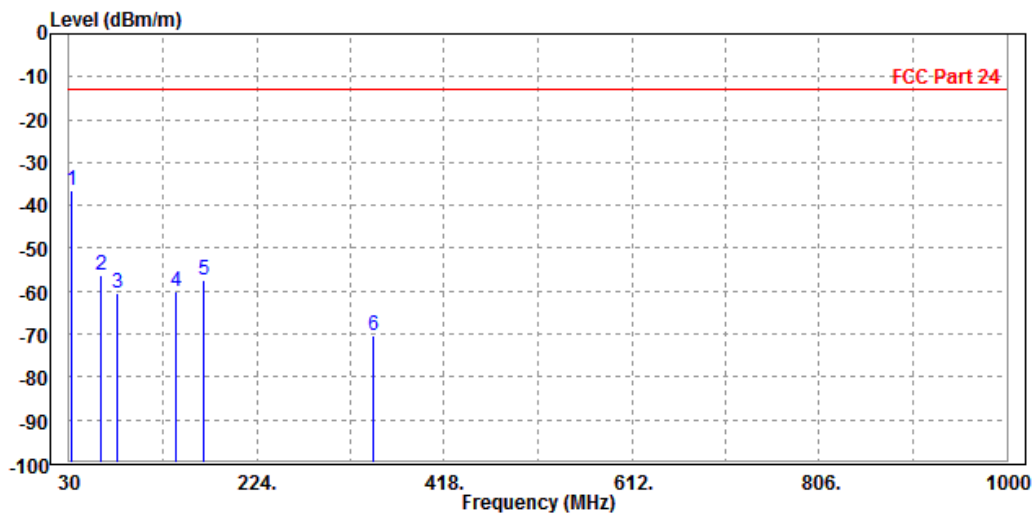
30 MHz – 1GHz data:

LTE Band 2

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

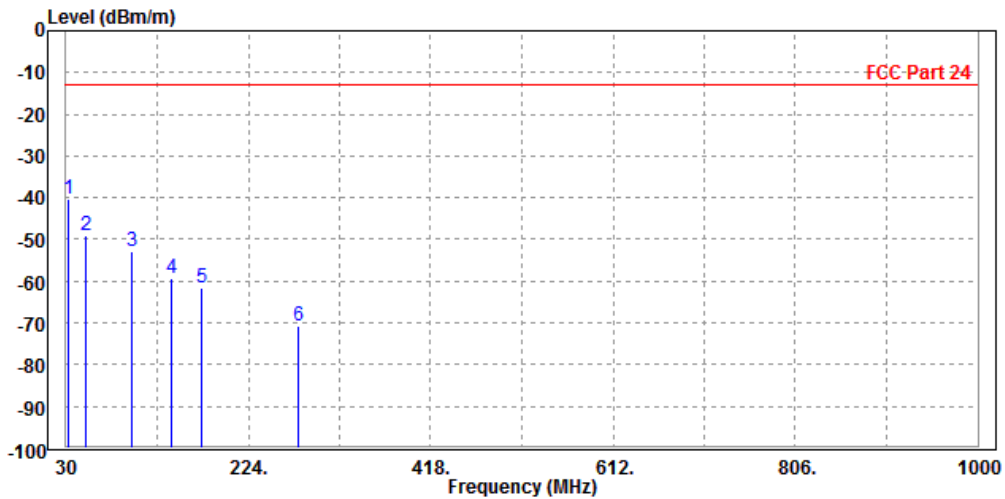
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	31.940	-36.58	-53.25	-13.00	-23.58	16.67	Peak	Horizontal
2	62.980	-56.43	-47.71	-13.00	-43.43	-8.72	Peak	Horizontal
3	80.440	-60.28	-52.58	-13.00	-47.28	-7.70	Peak	Horizontal
4	140.580	-60.05	-40.82	-13.00	-47.05	-19.23	Peak	Horizontal
5	169.680	-57.36	-39.23	-13.00	-44.36	-18.13	Peak	Horizontal
6	345.250	-70.22	-57.93	-13.00	-57.22	-12.29	Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	31.940	-40.32	-43.07	-13.00	-27.32	2.75	Peak	Vertical
2	50.370	-48.91	-43.91	-13.00	-35.91	-5.00	Peak	Vertical
3	99.840	-52.75	-42.08	-13.00	-39.75	-10.67	Peak	Vertical
4	142.520	-59.41	-43.46	-13.00	-46.41	-15.95	Peak	Vertical
5	173.560	-61.78	-47.94	-13.00	-48.78	-13.84	Peak	Vertical
6	277.350	-70.61	-59.21	-13.00	-57.61	-11.40	Peak	Vertical





ABOVE 1GHz DATA

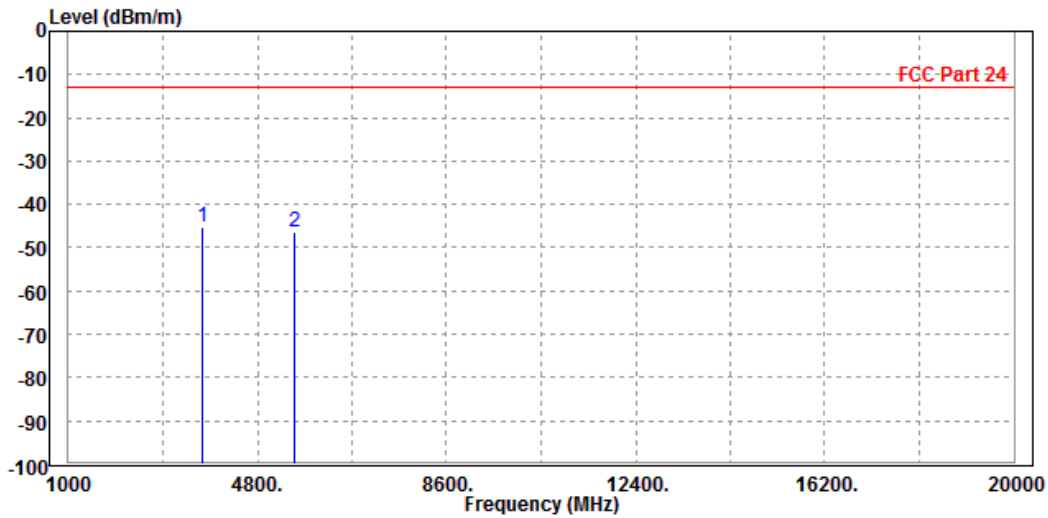
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band II

CH 9262

MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-45.41	-54.19	-13.00	-32.41	8.78	Peak	Horizontal
2	5557.200	-46.21	-56.42	-13.00	-33.21	10.21	Peak	Horizontal



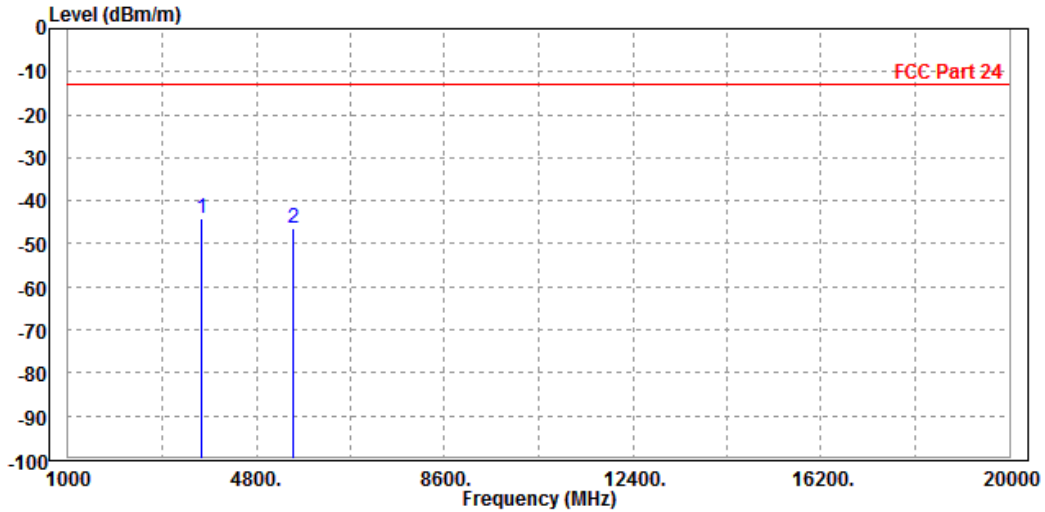


BUREAU VERITAS

Test Report No.: RF191023W005-3

MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-44.23	-53.48	-13.00	-31.23	9.25	Peak	Vertical
2	5557.200	-46.30	-56.23	-13.00	-33.30	9.93	Peak	Vertical

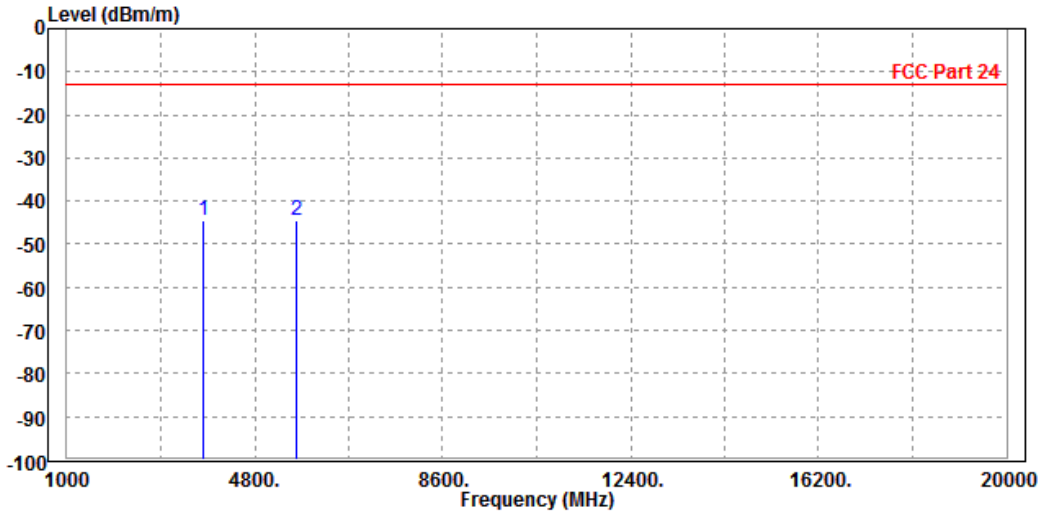




CH 9400

MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

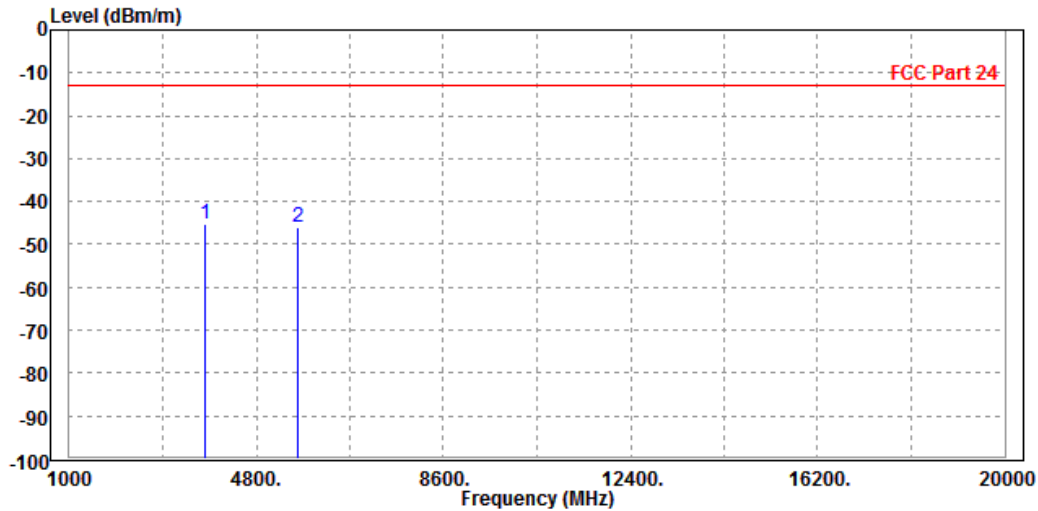
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-44.41	-53.26	-13.00	-31.41	8.85	Peak	Horizontal
2	5640.000	-44.64	-55.12	-13.00	-31.64	10.48	Peak	Horizontal





MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-45.34	-54.61	-13.00	-32.34	9.27	Peak	Vertical
2	5640.000	-46.04	-56.29	-13.00	-33.04	10.25	Peak	Vertical

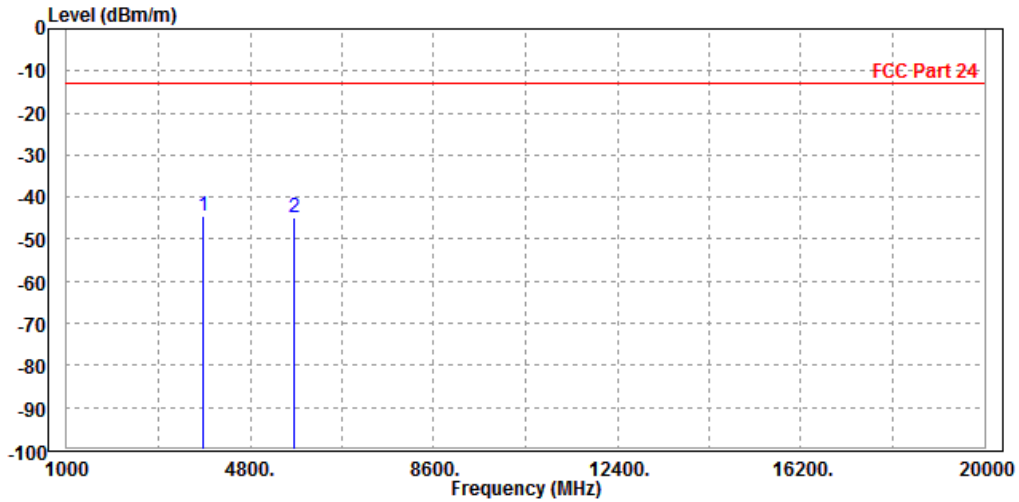




CH 9538

MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

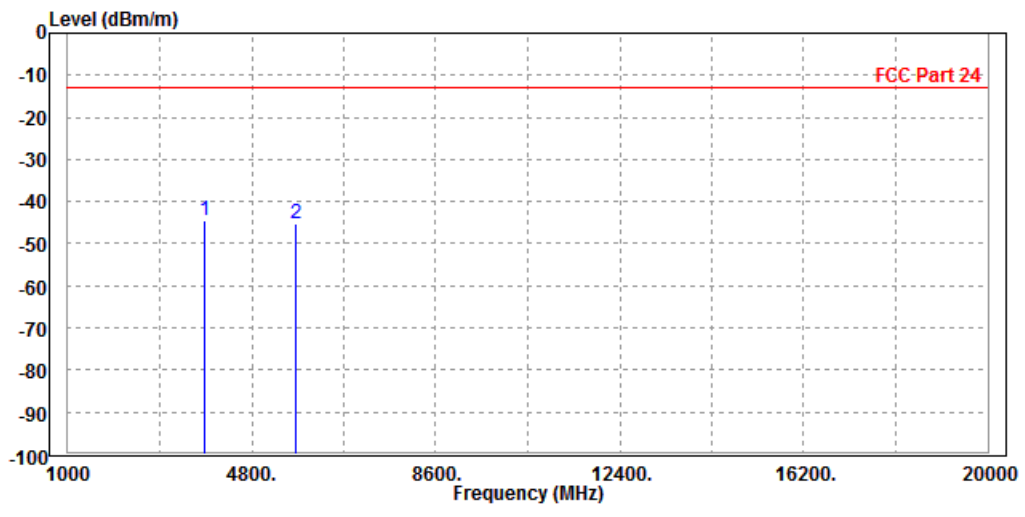
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3812.000	-44.54	-53.45	-13.00	-31.54	8.91	Peak	Horizontal
2	5722.800	-44.91	-55.67	-13.00	-31.91	10.76	Peak	Horizontal





MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-44.35	-53.64	-13.00	-31.35	9.29	Peak	Vertical
2	5722.800	-45.12	-55.69	-13.00	-32.12	10.57	Peak	Vertical





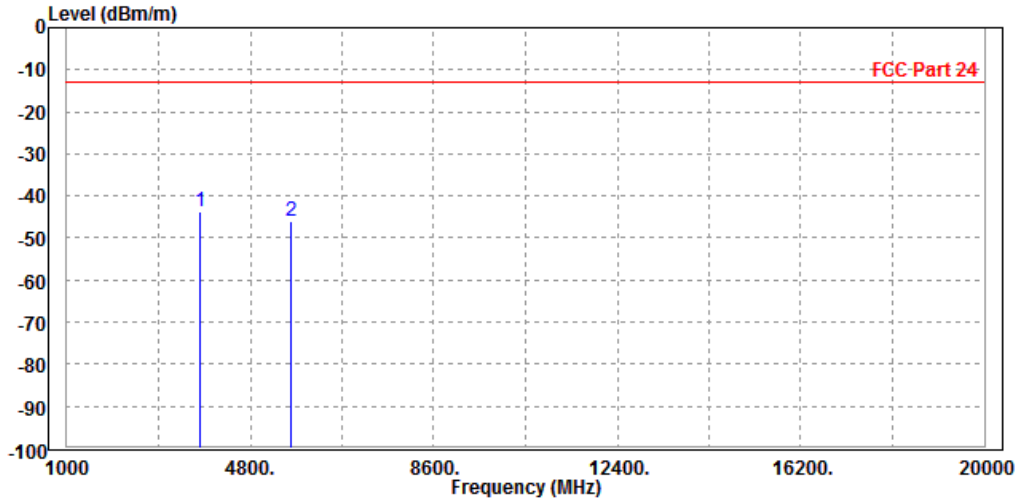
BUREAU VERITAS Test Report No.: RF191023W005-3

LTE Band 2

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

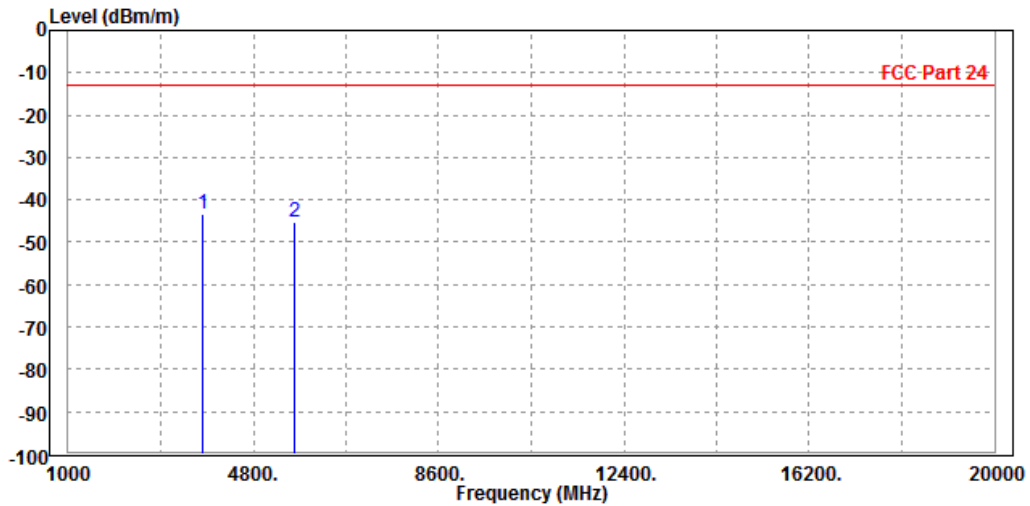
	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 3755.000	-43.60	-52.45	-13.00	-30.60	8.85	Peak	Horizontal
2 5640.000	-45.86	-56.34	-13.00	-32.86	10.48	Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-43.42	-52.69	-13.00	-30.42	9.27	Peak	Vertical
2	5640.000	-45.23	-55.48	-13.00	-32.23	10.25	Peak	Vertical

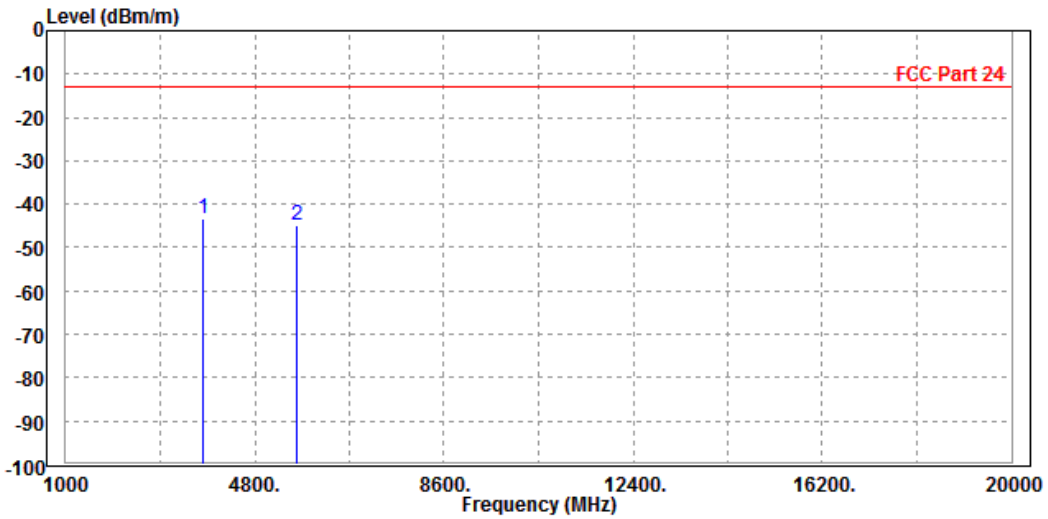




CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-43.51	-52.36	-13.00	-30.51	8.85	Peak	Horizontal
2	5640.000	-44.70	-55.18	-13.00	-31.70	10.48	Peak	Horizontal



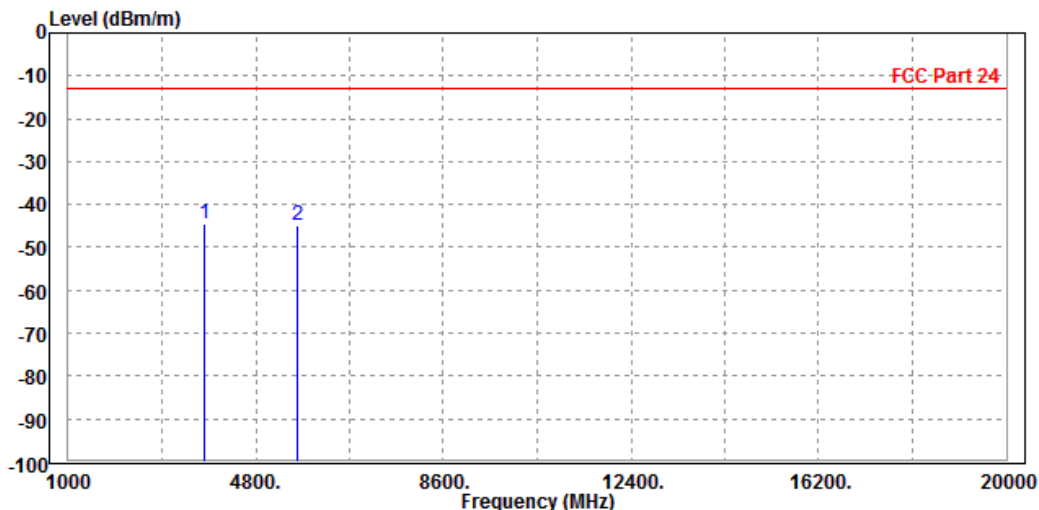


BUREAU VERITAS

Test Report No.: RF191023W005-3

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-44.41	-53.68	-13.00	-31.41	9.27	Peak	Vertical
2	5640.000	-45.00	-55.25	-13.00	-32.00	10.25	Peak	Vertical

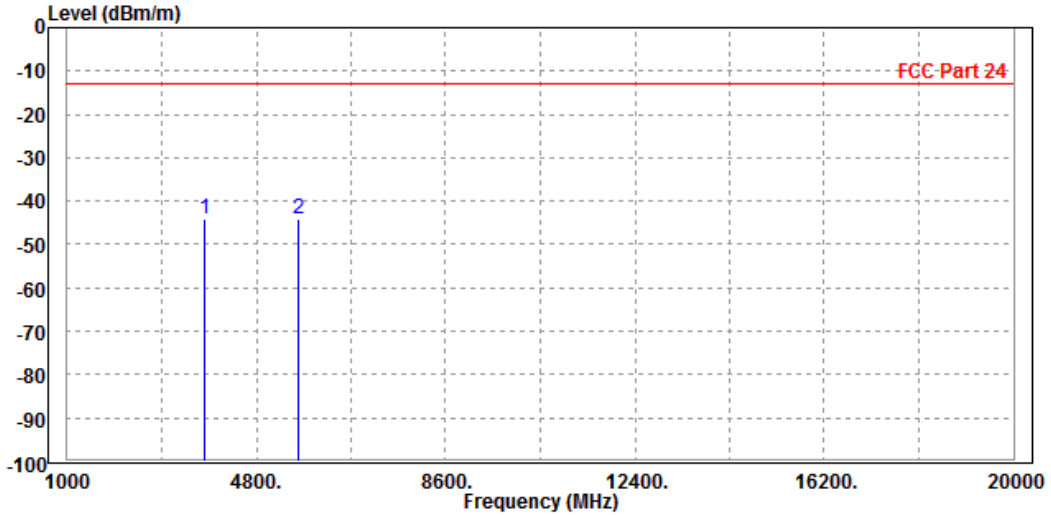




CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-44.04	-52.89	-13.00	-31.04	8.85	Peak	Horizontal
2	5640.000	-44.13	-54.61	-13.00	-31.13	10.48	Peak	Horizontal



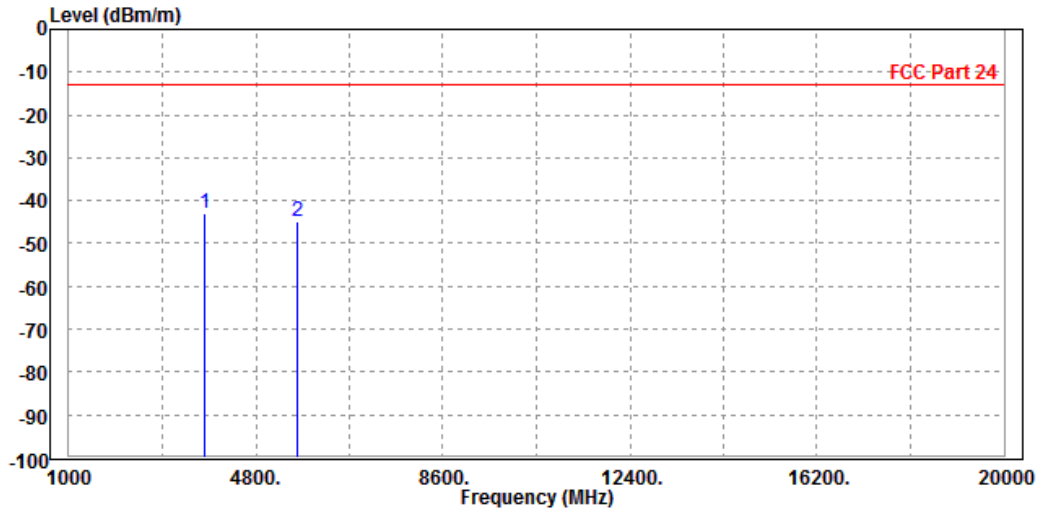


BUREAU VERITAS

Test Report No.: RF191023W005-3

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-43.07	-52.34	-13.00	-30.07	9.27	Peak	Vertical
2	5640.000	-45.04	-55.29	-13.00	-32.04	10.25	Peak	Vertical





**BUREAU
VERITAS**

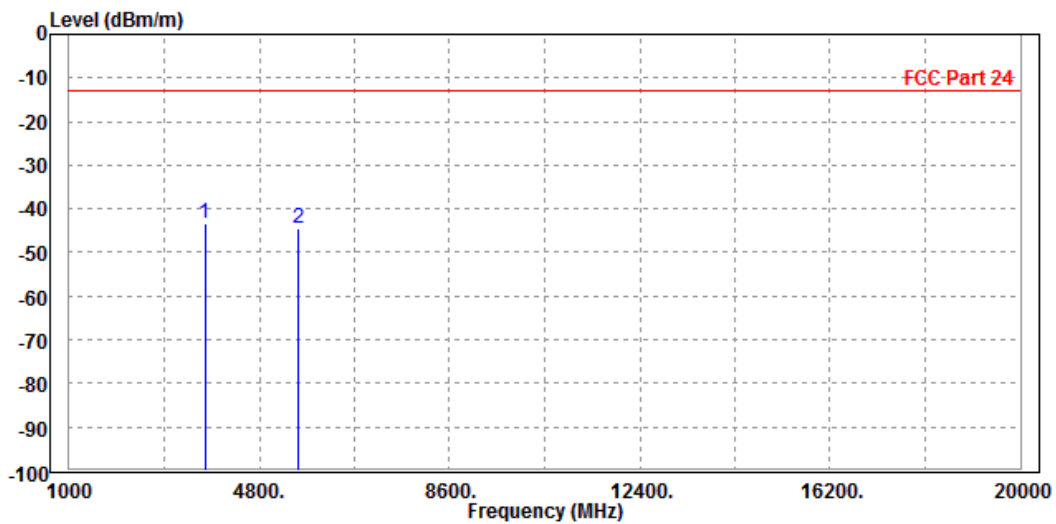
Test Report No.: RF191023W005-3

CHANNEL BANDWIDTH: 10MHz / QPSK

CH 18650

MODE	TX channel 18650	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

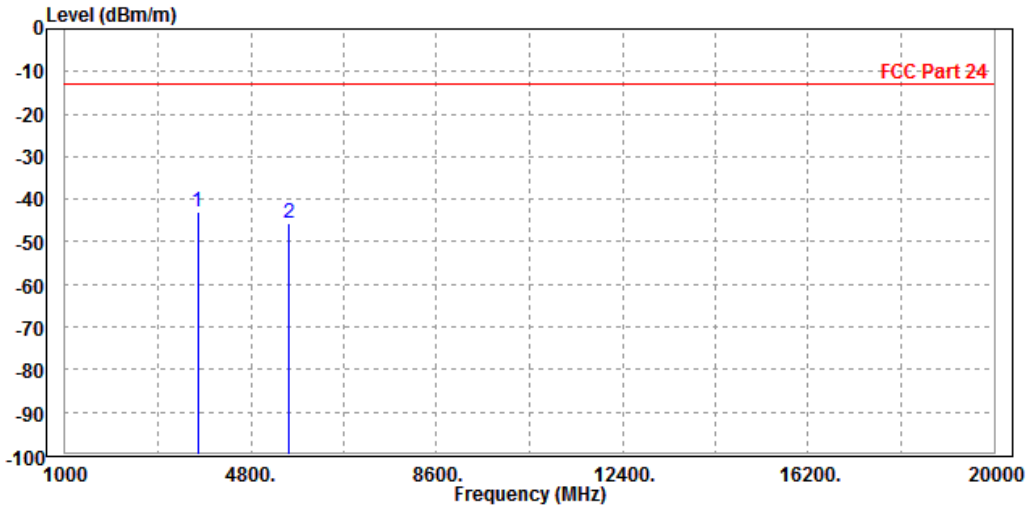
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3710.000	-43.36	-52.16	-13.00	-30.36	8.80	Peak	Horizontal
2	5565.000	-44.45	-54.69	-13.00	-31.45	10.24	Peak	Horizontal





MODE	TX channel 18650	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-43.11	-52.36	-13.00	-30.11	9.25	Peak	Vertical
2	5565.000	-45.46	-55.42	-13.00	-32.46	9.96	Peak	Vertical





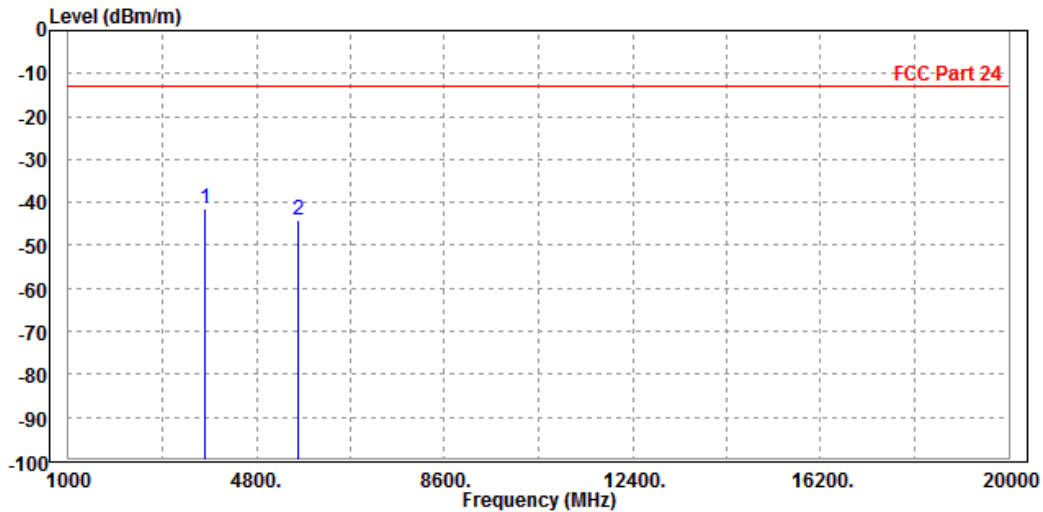
BUREAU VERITAS

Test Report No.: RF191023W005-3

CH 18900

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

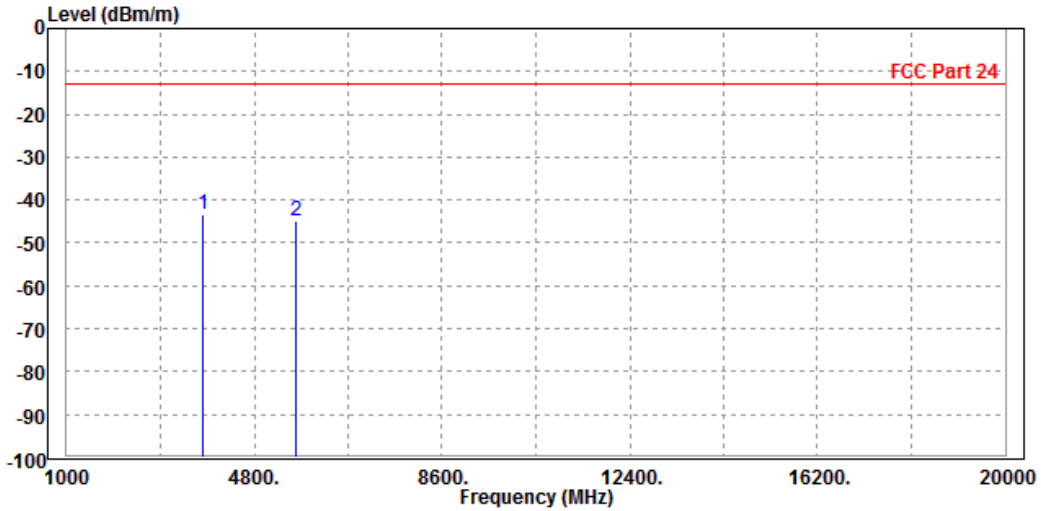
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-41.47	-50.32	-13.00	-28.47	8.85	Peak	Horizontal
2	5640.000	-44.17	-54.65	-13.00	-31.17	10.48	Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-43.37	-52.64	-13.00	-30.37	9.27	Peak	Vertical
2	5640.000	-44.90	-55.15	-13.00	-31.90	10.25	Peak	Vertical

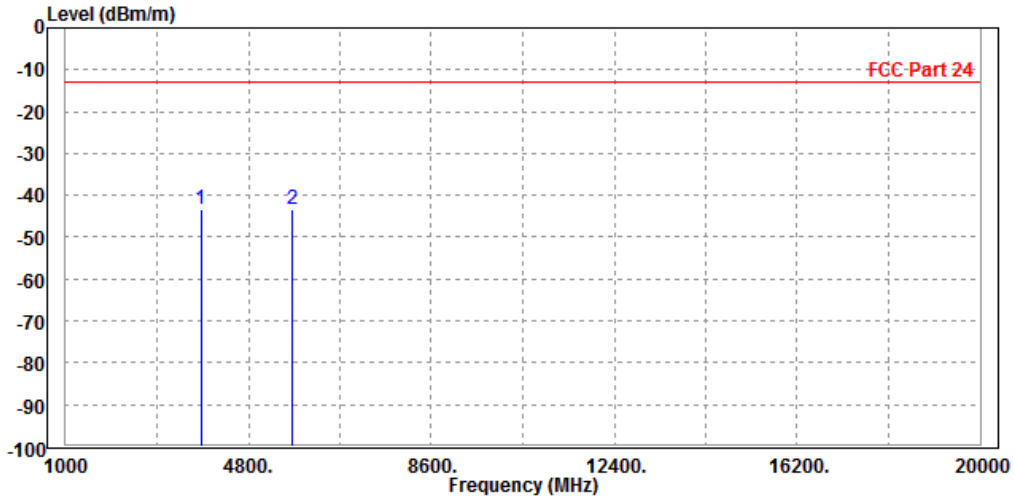




CH 19150

MODE	TX channel 19150	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

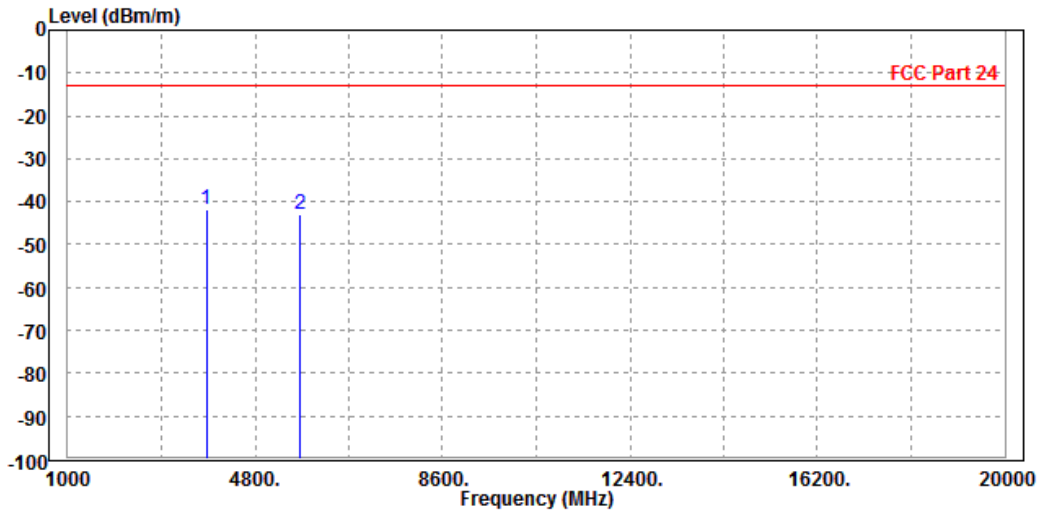
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3810.000	-43.42	-52.32	-13.00	-30.42	8.90	Peak	Horizontal
2	5715.000	-43.45	-54.18	-13.00	-30.45	10.73	Peak	Horizontal





MODE	TX channel 19150	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 3810.000	-41.99	-51.28	-13.00	-28.99	9.29	Peak	Vertical
2 5715.000	-43.15	-53.69	-13.00	-30.15	10.54	Peak	Vertical

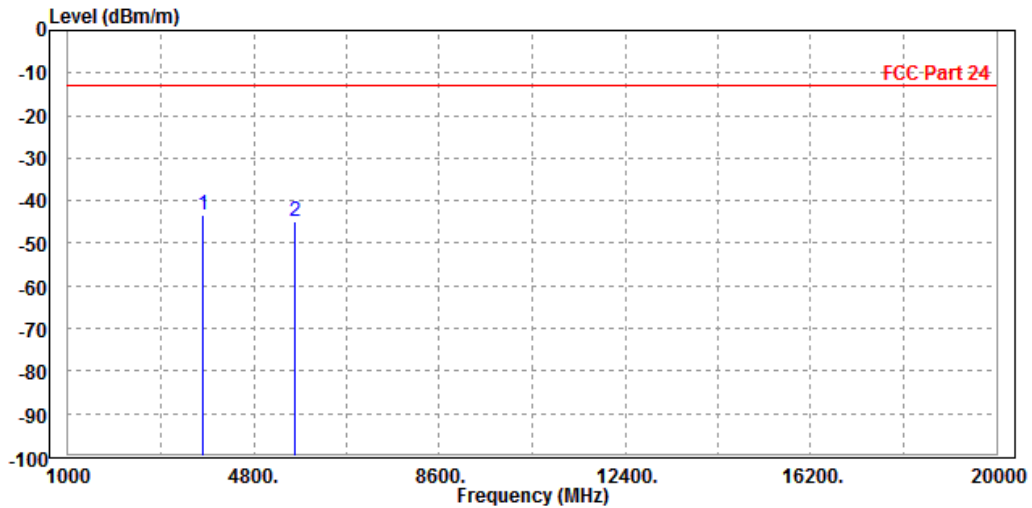




CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

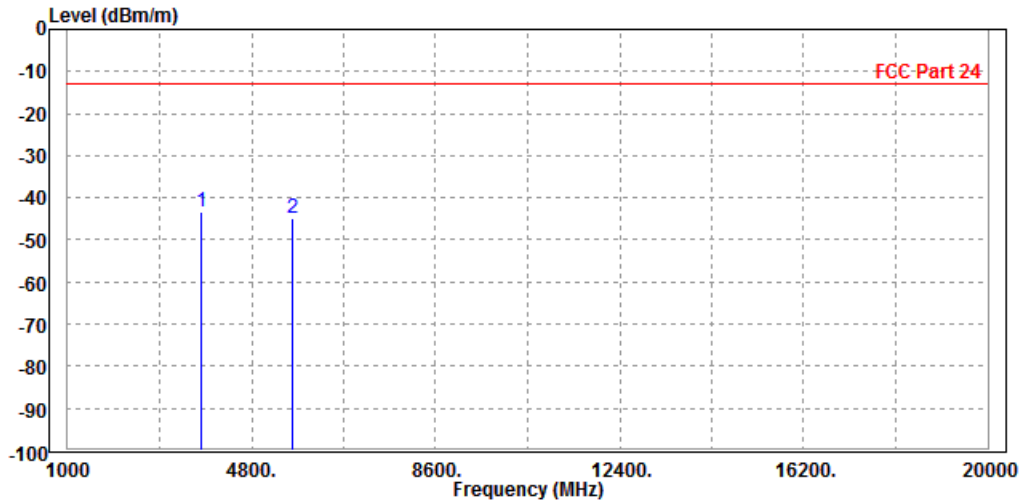
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-43.53	-52.38	-13.00	-30.53	8.85	Peak	Horizontal
2	5640.000	-44.76	-55.24	-13.00	-31.76	10.48	Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-43.19	-52.46	-13.00	-30.19	9.27	Peak	Vertical
2	5640.000	-44.94	-55.19	-13.00	-31.94	10.25	Peak	Vertical

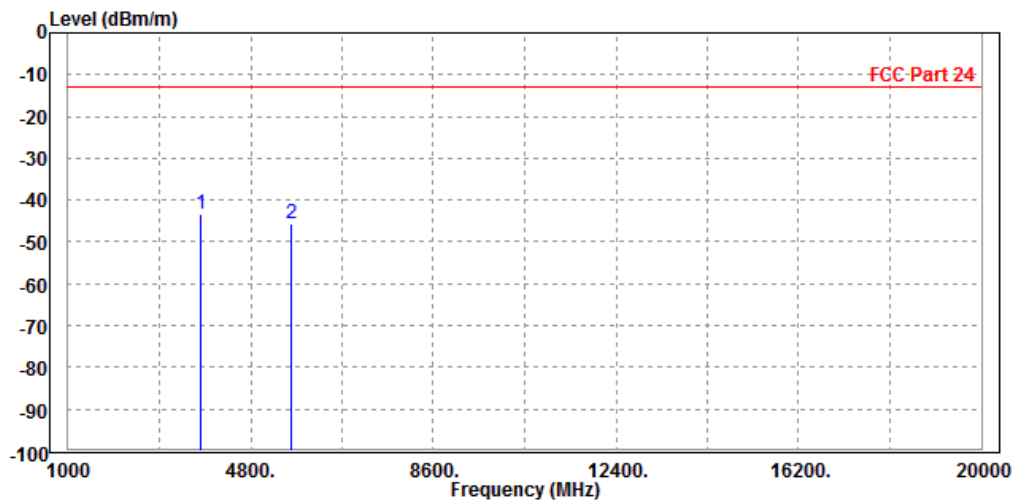




CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

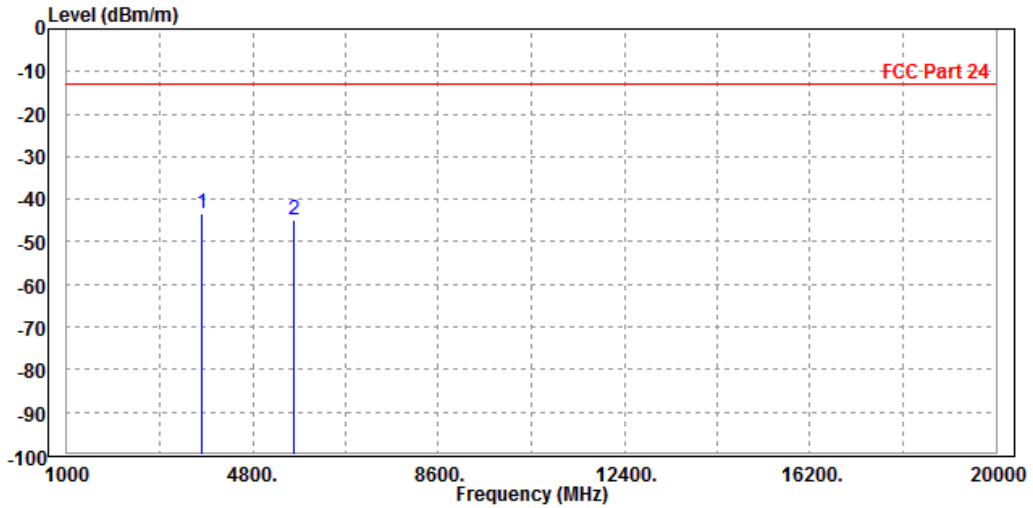
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-43.27	-52.12	-13.00	-30.27	8.85	Peak	Horizontal
2	5640.000	-45.47	-55.95	-13.00	-32.47	10.48	Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V from adapter
TESTED BY	Star Le		
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	-43.19	-52.46	-13.00	-30.19	9.27	Peak	Vertical
2	5640.000	-44.94	-55.19	-13.00	-31.94	10.25	Peak	Vertical



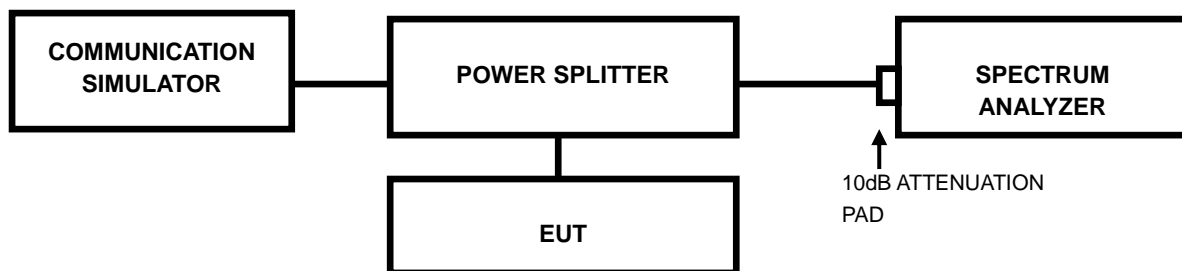


3.7 PEAK TO AVERAGE RATIO

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%.

The test results was recorded in Report No.: RTWK160705001-00 (FCC ID: XMR201605EC25A).



BUREAU VERITAS Test Report No.: RF191023W005-3

4 INFORMATION ON THE TESTING LABORATORIES

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

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

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Fax: +86-755-88696577

Email: customerservice.dg@cn.bureauveritas.com

Web Site: www.adt.com.tw

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



BUREAU VERITAS Test Report No.: RF191023W005-3

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---