

FCC TEST REPORT

(PART 22)


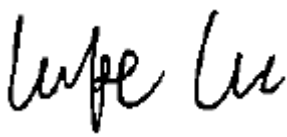
Applicant:	PAX Technology Limited
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Manufacturer or Supplier:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.
Product:	Integrated Smart Terminal
Brand Name:	PAX
Model Name:	E700
FCC ID:	V5PE700
Date of tests:	Mar 27, 2019 ~ Jul 17, 2019

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

- FCC PART 22, Subpart H**
- ANSI/TIA/EIA-603-D**
- ANSI/TIA/EIA-603-E**

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: Jul 23, 2019	 Date: Jul 23, 2019

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TABLE OF CONTENTS

RELEASE CONTROL RECORD4

1 SUMMARY OF TEST RESULTS.....5

1.1 MEASUREMENT UNCERTAINTY6

1.2 TEST SITE AND INSTRUMENTS7

2 GENERAL INFORMATION8

2.1 GENERAL DESCRIPTION OF EUT8

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 15

3.1.4 TEST RESULTS 16

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 24

3.3 OCCUPIED BANDWIDTH MEASUREMENT 24

3.3.1 TEST PROCEDURES 24

3.3.2 TEST SETUP 24

3.3.3 TEST RESULTS 25

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 27

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 28

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



**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

3.6.5	TEST RESULTS	30
3.7	PEAK TO AVERAGE RATIO	50
3.7.1	LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	50
3.7.2	TEST SETUP	50
3.7.3	TEST PROCEDURES	50
3.7.4	TEST RESULTS	50
4	PHOTOGRAPHS OF THE TEST CONFIGURATION	51
5	INFORMATION ON THE TESTING LABORATORIES	52
6	APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	53



BUREAU
VERITAS

Test Report No.: RF190326W003-4

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF190326W003-4	Original release	Jul 23, 2019

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
2.1046 22.913 (a)	Effective Radiated Power	PASS	Meet the requirement of limit.
2.1055 22.355	Frequency Stability	N/A	See Note
2.1049 22.917b	Occupied Bandwidth	N/A	See Note
--	Peak to average ratio*	N/A	See Note
22.917	Band Edge Measurements	N/A	See Note
2.1051 22.917	Conducted Spurious Emissions	N/A	See Note
2.1053 22.917	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -23.97dB at 127.000MHz.

Note: These "N/A " items please refer to the LTE module report RF160714W002-1 which The FCC ID is SRQ-ME3630, and the LTE module has been certified by Telefication B.V. on 08/10/2016.

* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

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
Effective Radiated Power	$\pm 4.48\text{dB}$
Frequency Stability	$\pm 39.27\text{Hz}$
Radiated emissions	$\pm 4.48\text{dB}$
Conducted emissions	$\pm 2\text{ dB}$
Occupied Channel Bandwidth	$\pm 21.7\text{KHz}$
Band Edge Measurements	$\pm 4.48\text{dB}$
Peak to average ratio	$\pm 0.76\text{dB}$

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



1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,19	Feb. 25,20
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 26,19	Feb. 25,20
Bilog Antenna 1	ETS-LINDGREN	3143B	00161964	Feb. 26,19	Feb. 25,20
Bilog Antenna 2	ETS-LINDGREN	3143B	00161965	Feb. 26,19	Feb. 25,20
Horn Antenna 1	ETS-LINDGREN	3117	00168728	Feb. 26,19	Feb. 25,20
Horn Antenna 2	ETS-LINDGREN	3117	00168692	Nov. 30, 18	Nov. 29, 19
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40 -K-SG/QMS-00 361	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 Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 26,19	Feb. 25,20

- 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

EUT	Integrated Smart Terminal	
BRAND NAME	PAX	
MODEL NAME	E700	
POWER SUPPLY	24Vdc (adapter or host equipment) 3.63Vdc (Li-ion, battery)	
MODULATION TYPE	WCDMA	BPSK, QPSK
	LTE	QPSK, 16QAM
FREQUENCY RANGE	WCDMA	826.4MHz ~ 846.6MHz
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 5 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 5 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 5 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
MAX. ERP POWER	WCDMA	65mW
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	265mW
	LTE Band 5 (Channel Bandwidth: 3MHz)	273mW
	LTE Band 5 (Channel Bandwidth: 5MHz)	270mW
	LTE Band 5 (Channel Bandwidth: 10MHz)	228mW
EMISSION DESIGNATOR	WCDMA	4M15F9W
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	QPSK: 1M09G7D
		16QAM: 1M08W7D
	LTE Band 5 (Channel Bandwidth: 3MHz)	QPSK: 2M68G7D
		16QAM: 2M68W7D
	LTE Band 5 (Channel Bandwidth: 5MHz)	QPSK: 4M48G7D
16QAM: 4M46W7D		
LTE Band 5 (Channel Bandwidth: 10MHz)	QPSK: 8M92G7D	
	16QAM: 8M93W7D	
ANTENNA TYPE	Fixed Internal Antenna with 1dBi gain	
HW VERSION	N/A	
SW VERSION	N/A	



I/O PORTS	Refer to user's manual
DATA CABLE	Refer to note as below

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. The EUT was powered by the following adapter:

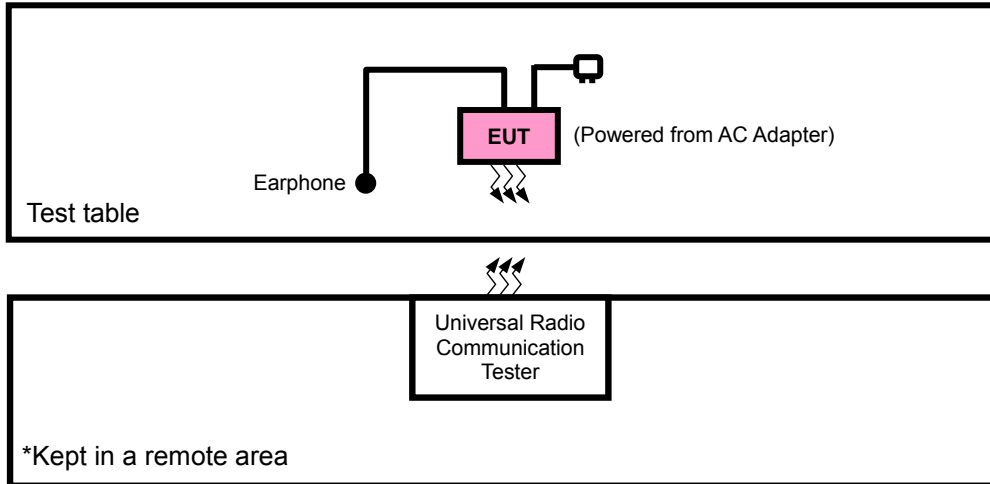
ADAPTER	
BRAND:	HONOTO
MODEL:	ADS-65HI-19A-3 24065E
INPUT:	AC 100-240V, 1.5A
OUTPUT:	DC 24V, 2.7A

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

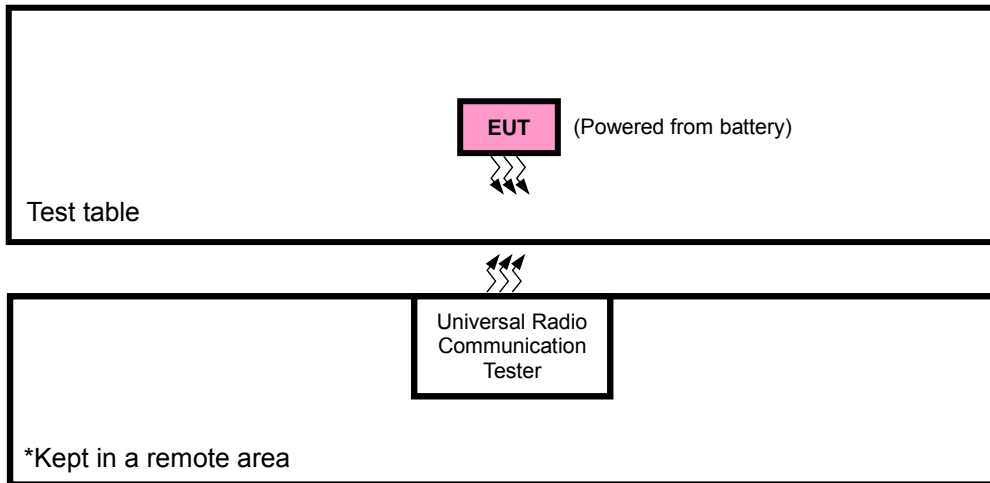


2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION



FOR CONDUCTED & E.R.P. TEST





2.3 DESCRIPTION OF SUPPORT UNITS

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

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

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

NOTE:

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

2.4 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 ERP and 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 + Battery with WCDMA or LTE link



WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
B	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
A	RADIATED EMISSION	4132 to 4233	4132, 4182, 4233	WCDMA

LTE BAND 5 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
B	ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	20407 to 20643	20525	1.4MHz	QPSK	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB / 0 RB Offset
		20425 to 20625	20525	5MHz	QPSK	1 RB / 0 RB Offset
		20450 to 20600	20525	10MHz	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 ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 62%RH	3.63Vdc from Battery	Star Le
RADIATED EMISSION	23deg. C, 70%RH	24Vdc 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



Test Report No.: RF190326W003-4

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 22

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 / Portable station are limited to 7 watts e.r.p.

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5MHz for WCDMA mode and 10MHz for LTE mode.
- b. 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.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step b. Record the power level of S.G
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,
 $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15\text{dBi}$.

CONDUCTED POWER MEASUREMENT:

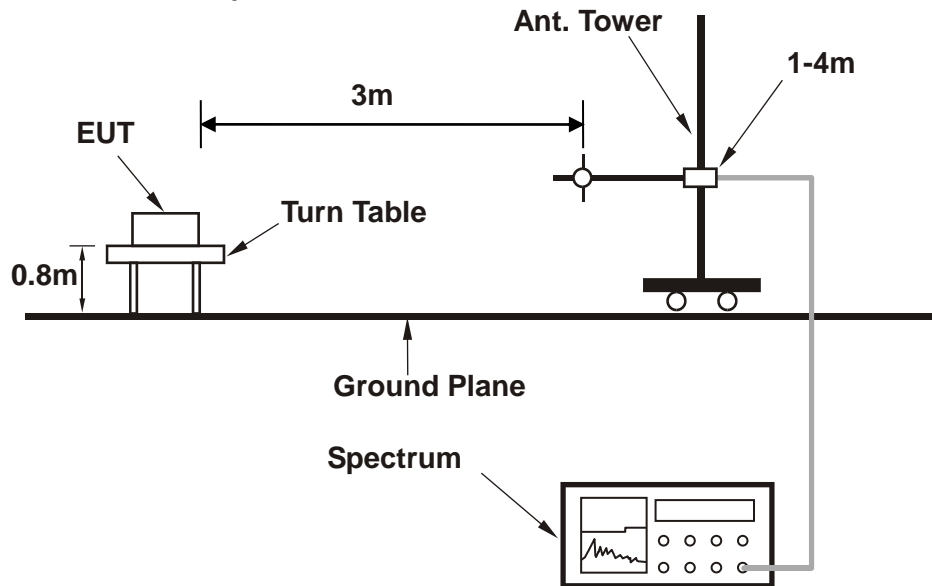
The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



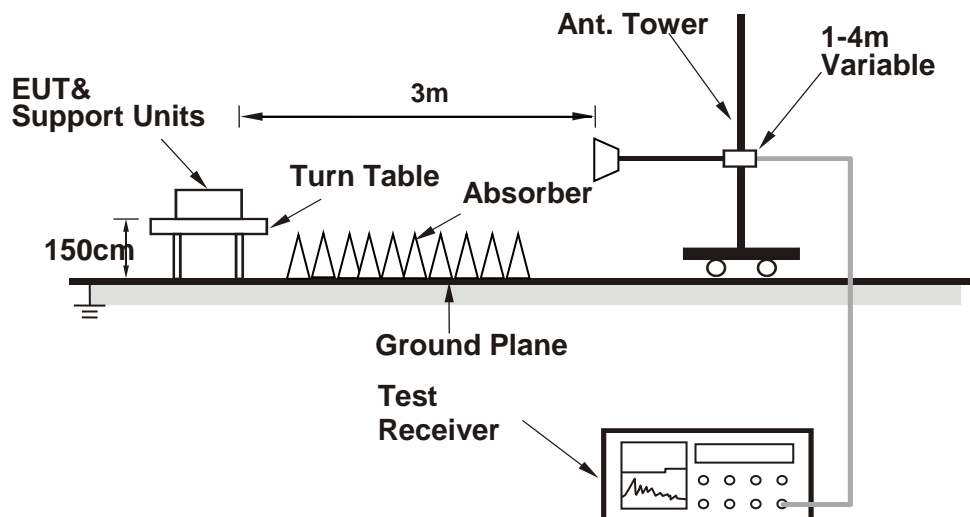
3.1.3 TEST SETUP

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

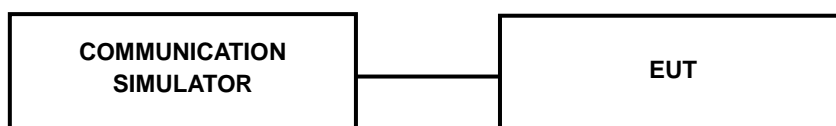


<Radiated Emission above 1 GHz>



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

CONDUCTED POWER MEASUREMENT:





3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA V		
	4132	4182	4233
Channel	826.4	836.4	846.6
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.21	23.20	23.25
HSPA			
HSDPA Subtest-1	22.54	22.53	22.58
HSDPA Subtest-2	22.37	22.36	22.41
HSDPA Subtest-3	22.07	22.06	22.11
HSDPA Subtest-4	22.15	22.14	22.19
HSUPA Subtest-1	22.66	22.65	22.70
HSUPA Subtest-2	20.96	20.95	21.00
HSUPA Subtest-3	22.05	22.04	22.09
HSUPA Subtest-4	20.67	20.66	20.71
HSUPA Subtest-5	22.85	22.84	22.89



LTE Band 5

Band/BW	Modulation	RB Size	RB Offset	Low CH 20407	Mid CH 20525	High CH 20643	3GPP MPR (dB)
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz	
5/1.4	QPSK	1	0	22.01	22.28	21.92	0
		1	2	22.17	22.37	22.06	0
		1	5	21.46	21.64	21.31	0
		3	0	23.23	23.44	23.15	0
		3	1	23.30	23.52	23.11	0
		3	3	22.89	23.09	22.76	0
	16QAM	6	0	22.10	22.28	21.97	1
		1	0	21.80	22.01	21.68	1
		1	2	21.72	21.89	21.60	1
		1	5	21.18	21.38	21.10	1
		3	0	22.28	22.50	22.15	0
		3	1	22.03	22.33	21.94	0
		3	3	21.83	22.05	21.74	0
		6	0	21.00	21.27	20.89	2
Band/BW	Modulation	RB Size	RB Offset	Low CH 20415	Mid CH 20525	High CH 20635	3GPP MPR (dB)
				Frequency 825.5 MHz	Frequency 836.5 MHz	Frequency 847.5 MHz	
5/ 3	QPSK	1	0	22.03	22.30	21.91	0
		1	7	22.13	22.38	22.06	0
		1	14	21.42	21.64	21.31	0
		8	0	22.22	22.47	22.15	1
		8	3	22.23	22.52	22.13	1
		8	7	21.86	22.16	21.80	1
		15	0	22.07	22.29	21.91	1
	16QAM	1	0	21.77	22.07	21.71	1
		1	7	21.69	21.92	21.58	1
		1	14	21.21	21.38	21.10	1
		8	0	21.24	21.51	21.15	2
		8	3	21.08	21.28	20.97	2
		8	7	20.85	21.03	20.70	2
		15	0	21.00	21.21	20.92	2



Band/BW	Modulation	RB Size	RB Offset	Low CH 20425	Mid CH 20525	High CH 20625	3GPP MPR (dB)
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz	
5/ 5	QPSK	1	0	22.04	22.25	21.92	0
		1	12	22.18	22.35	22.06	0
		1	24	21.43	21.63	21.35	0
		12	0	22.25	22.47	22.12	1
		12	6	22.23	22.53	22.14	1
		12	13	21.90	22.12	21.81	1
		25	0	22.05	22.32	21.94	1
	16QAM	1	0	21.78	22.03	21.71	1
		1	12	21.66	21.95	21.57	1
		1	24	21.21	21.38	21.09	1
		12	0	21.24	21.49	21.12	2
		12	6	21.05	21.32	20.93	2
		12	13	20.80	21.05	20.73	2
		25	0	21.00	21.22	20.89	2
Band/BW	Modulation	RB Size	RB Offset	Low CH 20450	Mid CH 20525	High CH 20600	3GPP MPR (dB)
				Frequency 829 MHz	Frequency 836.5 MHz	Frequency 844 MHz	
5/ 10	QPSK	1	0	22.09	22.32	21.97	0
		1	24	22.20	22.43	22.08	0
		1	49	21.48	21.71	21.36	0
		25	0	22.29	22.52	22.17	1
		25	12	22.31	22.54	22.19	1
		25	25	21.94	22.17	21.82	1
		50	0	22.11	22.34	21.99	1
	16QAM	1	0	21.85	22.08	21.73	1
		1	24	21.74	21.97	21.62	1
		1	49	21.23	21.46	21.11	1
		25	0	21.32	21.55	21.20	2
		25	12	21.11	21.34	20.99	2
		25	25	20.87	21.10	20.75	2
		50	0	21.06	21.29	20.94	2



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Test Report No.: RF190326W003-4

ERP POWER (dBm)

WCDMA

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
4132	826.4	-14.13	33.56	17.28	53.44	H
4182	836.4	-13.78	33.63	17.70	58.87	H
4233	846.6	-13.31	33.57	18.11	64.68	H
4132	826.4	-18.15	34.24	13.94	24.75	V
4182	836.4	-17.82	34.59	14.62	28.95	V
4233	846.6	-17.41	34.62	15.06	32.08	V

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



LTE BAND 5

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
20407	824.7	-8.16	33.67	23.36	216.92	H	7
20525	836.5	-7.73	33.62	23.74	236.81	H	7
20643	848.3	-7.26	33.65	24.24	265.16	H	7
20407	824.7	-15.58	34.25	16.52	44.85	V	7
20525	836.5	-15.10	34.60	17.35	54.30	V	7
20643	848.3	-14.61	34.63	17.87	61.24	V	7

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
20407	824.7	-8.99	33.67	22.53	179.18	H	7
20525	836.5	-8.75	33.62	22.72	187.24	H	7
20643	848.3	-8.36	33.65	23.14	205.83	H	7
20407	824.7	-16.41	34.25	15.69	37.05	V	7
20525	836.5	-16.12	34.60	16.33	42.93	V	7
20643	848.3	-15.71	34.63	16.77	47.53	V	7

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
20415	825.5	-7.97	33.72	23.60	229.14	H	7
20525	836.5	-7.67	33.62	23.80	240.10	H	7
20635	847.5	-7.13	33.65	24.37	273.46	H	7
20415	825.5	-15.39	34.30	16.76	47.44	V	7
20525	836.5	-15.04	34.60	17.41	55.06	V	7
20635	847.5	-14.48	34.57	17.94	62.24	V	7



CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
20415	825.5	-9.12	33.72	22.45	175.83	H	7
20525	836.5	-8.77	33.62	22.70	186.38	H	7
20635	847.5	-8.29	33.65	23.21	209.36	H	7
20415	825.5	-16.54	34.30	15.61	36.40	V	7
20525	836.5	-16.14	34.60	16.31	42.74	V	7
20635	847.5	-15.64	34.57	16.78	47.65	V	7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
20425	826.5	-7.98	33.69	23.56	227.20	H	7
20525	836.5	-7.74	33.62	23.73	236.27	H	7
20625	846.5	-7.20	33.66	24.31	269.84	H	7
20425	826.5	-15.40	34.85	17.30	53.69	V	7
20525	836.5	-15.11	34.60	17.34	54.18	V	7
20625	846.5	-14.55	34.59	17.89	61.57	V	7

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
20425	826.5	-8.84	33.69	22.70	186.38	H	7
20525	836.5	-8.61	33.62	22.86	193.37	H	7
20625	846.5	-8.05	33.66	23.46	221.87	H	7
20425	826.5	-16.26	34.85	16.44	44.05	V	7
20525	836.5	-15.98	34.60	16.47	44.34	V	7
20625	846.5	-15.40	34.59	17.04	50.63	V	7



CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
20450	829.0	-8.56	33.73	23.02	200.22	H	7
20525	836.5	-8.19	33.62	23.28	213.01	H	7
20600	844.0	-7.78	33.51	23.58	228.19	H	7
20450	829.0	-15.98	34.54	16.41	43.71	V	7
20525	836.5	-15.56	34.60	16.89	48.84	V	7
20600	844.0	-15.13	34.46	17.18	52.18	V	7

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
20450	829.0	-9.49	33.73	22.09	161.62	H	7
20525	836.5	-9.26	33.62	22.21	166.49	H	7
20600	844.0	-8.61	33.51	22.75	188.50	H	7
20450	829.0	-16.91	34.54	15.48	35.29	V	7
20525	836.5	-16.63	34.60	15.82	38.18	V	7
20600	844.0	-15.96	34.46	16.35	43.10	V	7

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

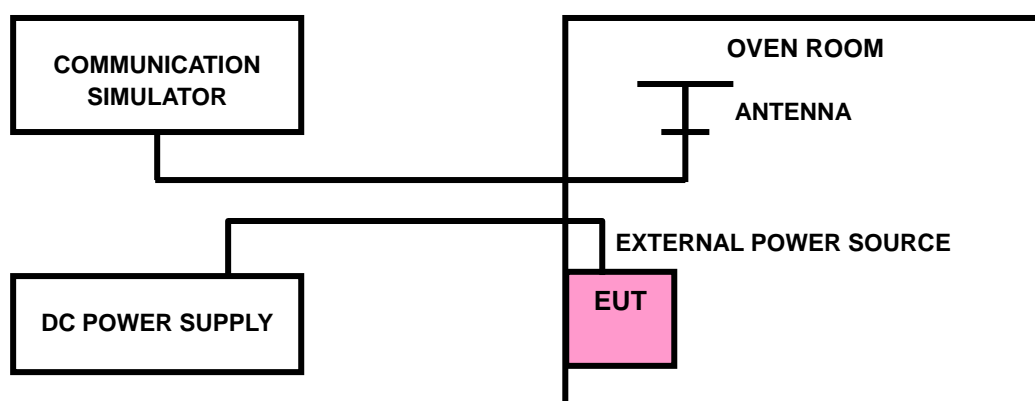
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

3.2.2 TEST PROCEDURE

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

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

3.2.3 TEST SETUP





3.2.4 TEST RESULTS

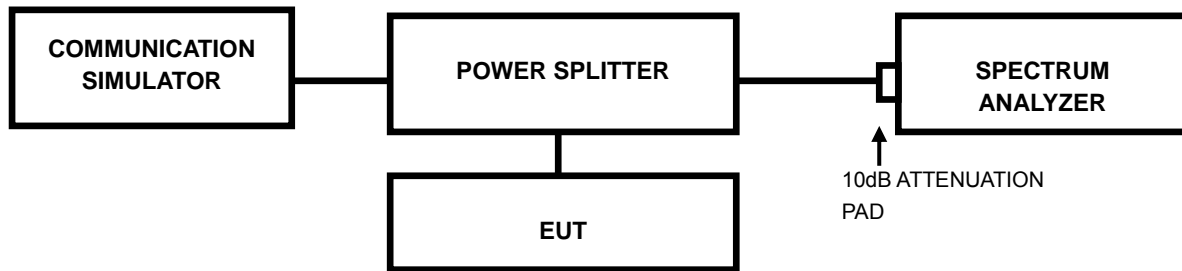
The test results was recorded in Report No.: RF160714W002-1.

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

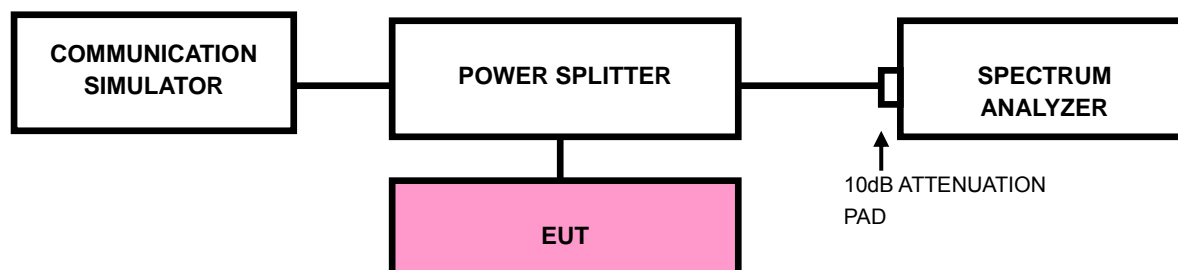
The test results was recorded in Report No.: RF160714W002-1.

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. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 20kHz and VBW of the spectrum is 100 kHz. (LTE bandwidth 1.4MHz).
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 3MHz)
- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 50kHz and VBW of the spectrum is 200kHz. (LTE bandwidth 5MHz)
- f. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 10MHz)
- g. Record the max trace plot into the test report.

3.4.4 TEST RESULTS

The test results was recorded in Report No.: RF160714W002-1.

3.5 CONDUCTED SPURIOUS EMISSIONS

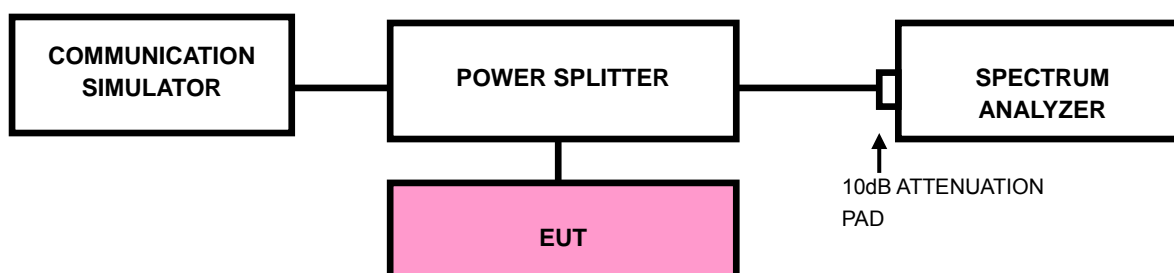
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 9 kHz to 9GHz. 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.: RF160714W002-1.

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

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

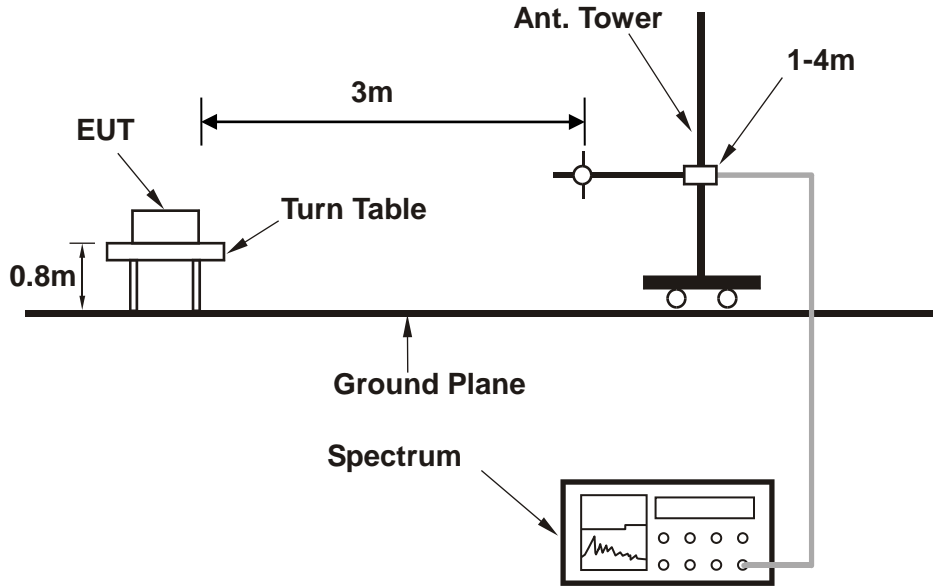
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

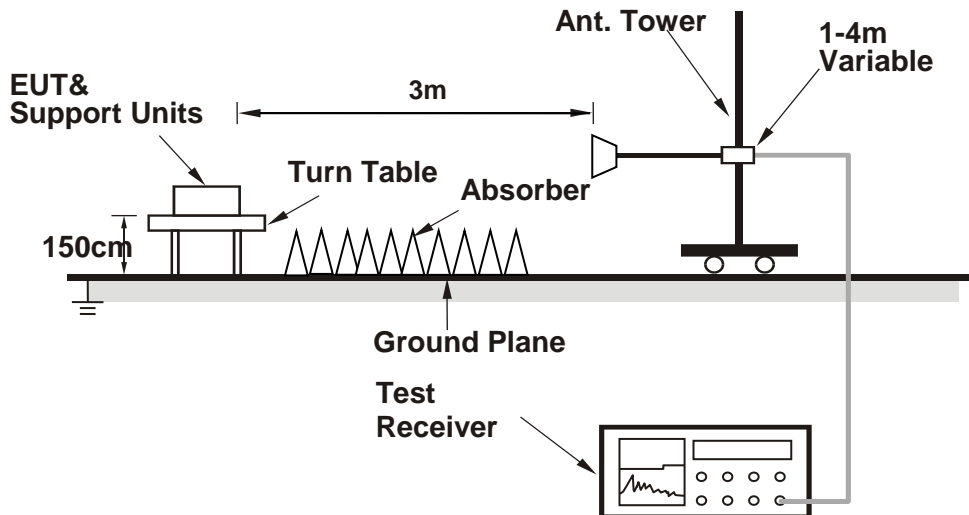


3.6.4 TEST SETUP

< Frequency Range 30MHz~1GHz >



< Frequency Range above 1GHz >



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



3.6.5 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

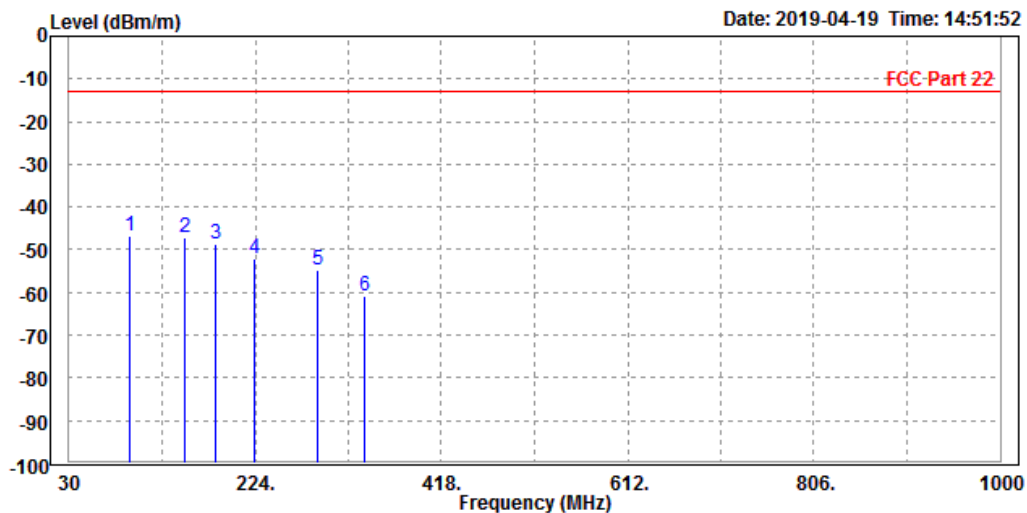
30 MHz – 1GHz data:

LTE Band 5

CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 20525	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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	93.050	-46.81	-37.47	-13.00	-33.81	-9.34 Peak	Horizontal
2		150.280	-47.22	-29.58	-13.00	-34.22	-17.64 Peak	Horizontal
3		183.260	-48.60	-34.90	-13.00	-35.60	-13.70 Peak	Horizontal
4		224.000	-52.00	-40.50	-13.00	-39.00	-11.50 Peak	Horizontal
5		288.990	-54.75	-44.05	-13.00	-41.75	-10.70 Peak	Horizontal
6		337.490	-60.68	-50.39	-13.00	-47.68	-10.29 Peak	Horizontal



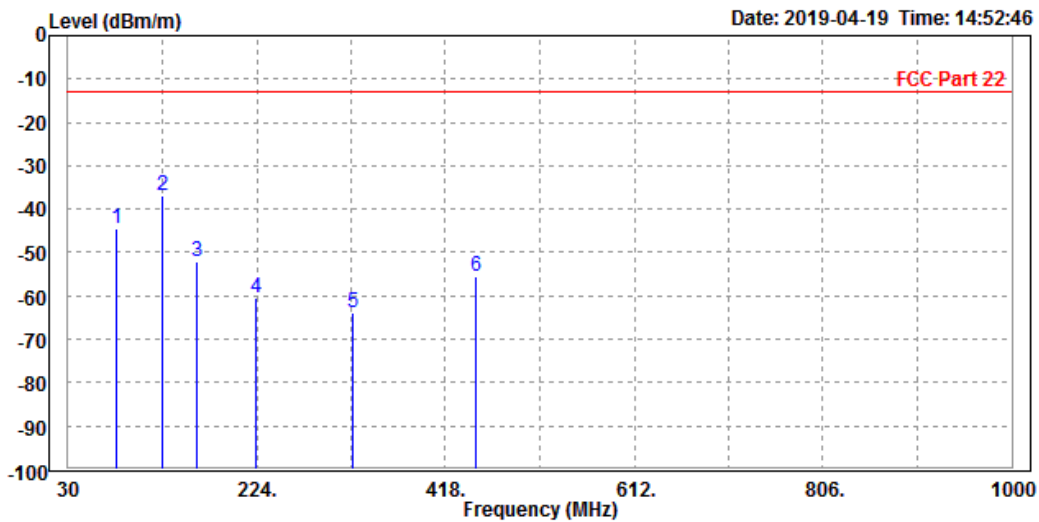


**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

MODE	TX channel 20525	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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	80.440	-44.53	-35.28	-13.00	-31.53	-9.25	Peak	Vertical
2 PP	127.000	-36.97	-28.11	-13.00	-23.97	-8.86	Peak	Vertical
3	161.920	-52.16	-37.79	-13.00	-39.16	-14.37	Peak	Vertical
4	224.000	-60.39	-46.65	-13.00	-47.39	-13.74	Peak	Vertical
5	321.970	-63.71	-53.45	-13.00	-50.71	-10.26	Peak	Vertical
6	450.010	-55.50	-48.16	-13.00	-42.50	-7.34	Peak	Vertical





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VERITAS

Test Report No.: RF190326W003-4

ABOVE 1GHz DATA

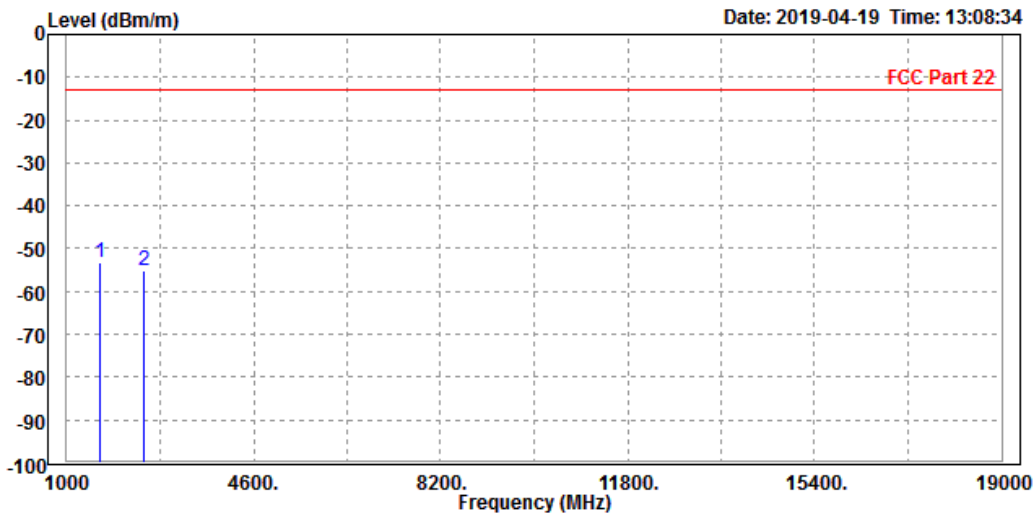
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band V:

CH 4132:

MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1648.000	-53.18	-48.21	-13.00	-40.18	-4.97	Peak	Horizontal
2	2479.000	-55.14	-53.49	-13.00	-42.14	-1.65	Peak	Horizontal



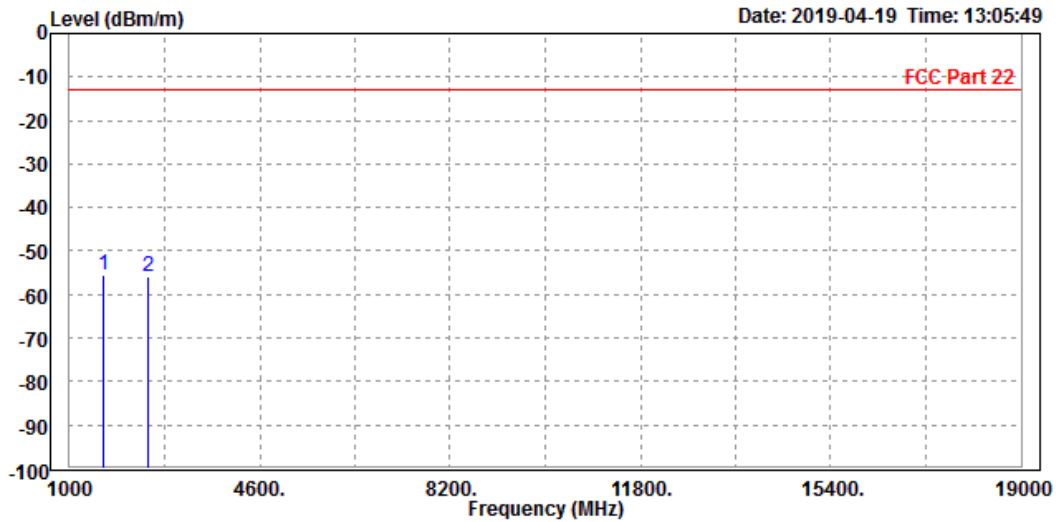


**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1646.000	-55.70	-52.13	-13.00	-42.70	-3.57	Peak	Vertical
2	2479.000	-55.76	-55.59	-13.00	-42.76	-0.17	Peak	Vertical





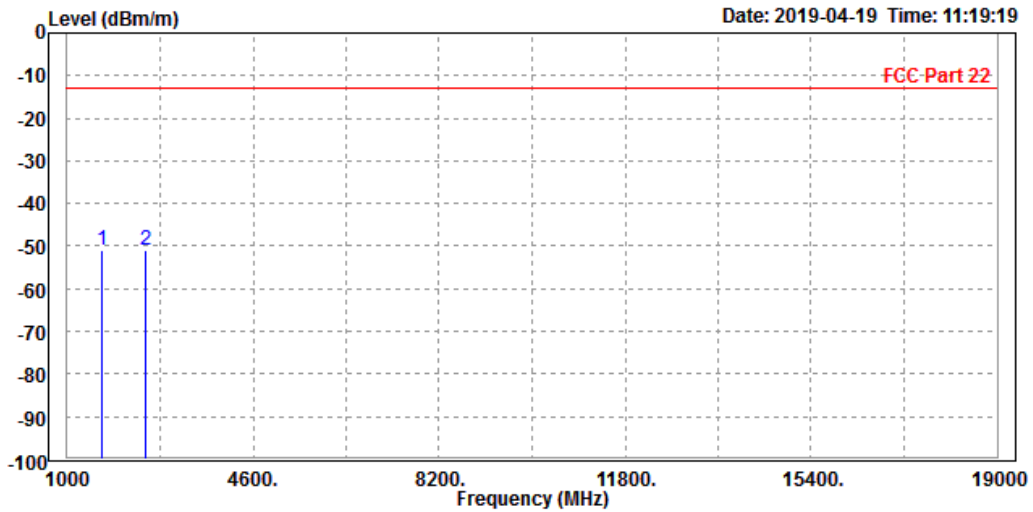
**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

CH 4182:

MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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	1666.000	-50.77	-45.95	-13.00	-37.77	-4.82	Peak	Horizontal
2 PP	2510.000	-50.76	-49.16	-13.00	-37.76	-1.60	Peak	Horizontal



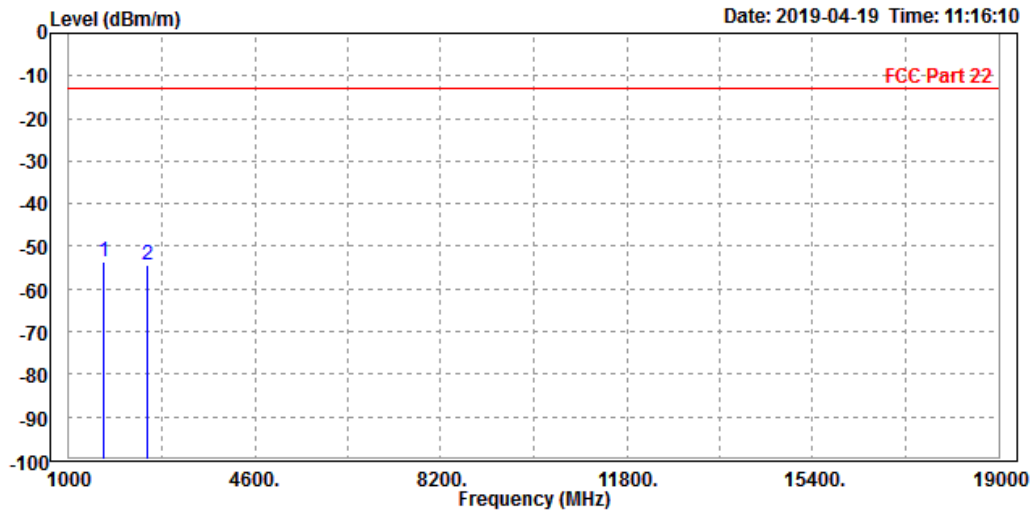


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Test Report No.: RF190326W003-4

MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1666.000	-53.67	-50.29	-13.00	-40.67	-3.38	Peak	Vertical
2	2510.000	-54.48	-54.35	-13.00	-41.48	-0.13	Peak	Vertical





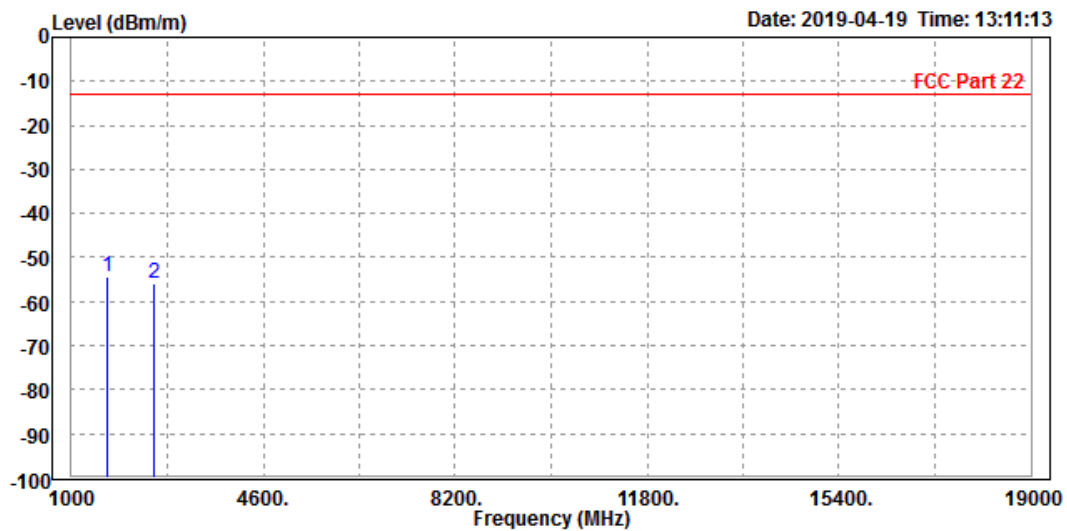
BUREAU VERITAS

Test Report No.: RF190326W003-4

CH 4233:

MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1684.000	-54.49	-49.82	-13.00	-41.49	-4.67	Peak	Horizontal
2	2539.000	-55.79	-54.30	-13.00	-42.79	-1.49	Peak	Horizontal



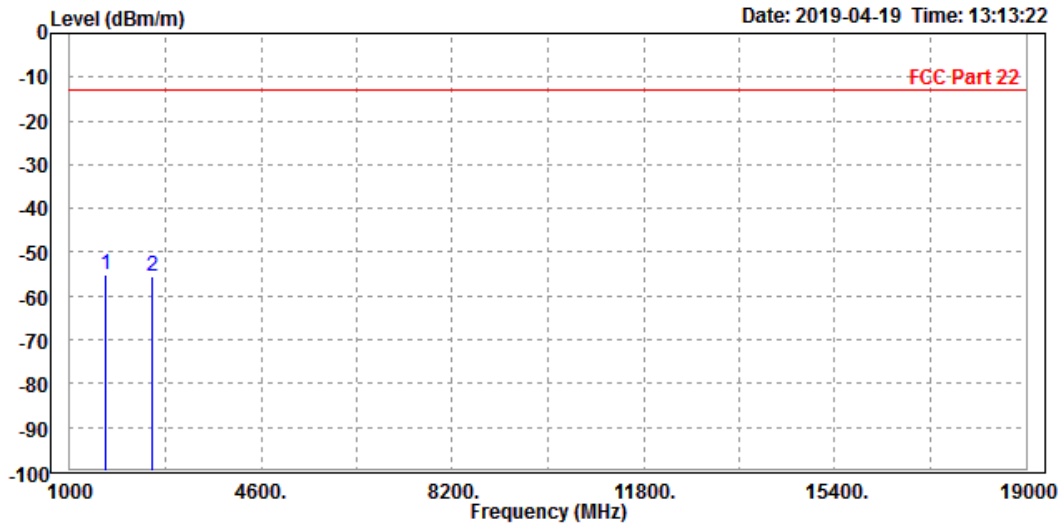


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Test Report No.: RF190326W003-4

MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1684.000	-55.18	-51.97	-13.00	-42.18	-3.21	Peak	Vertical
2	2539.000	-55.50	-55.50	-13.00	-42.50	0.00	Peak	Vertical





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VERITAS**

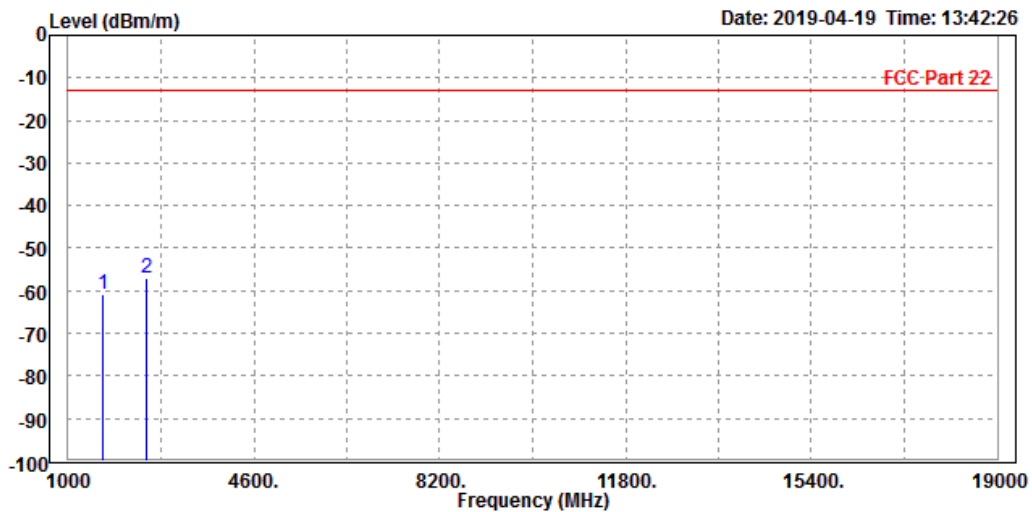
Test Report No.: RF190326W003-4

LTE Band 5

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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	1666.000	-60.72	-55.90	-13.00	-47.72	-4.82	Peak	Horizontal
2 PP	2510.000	-56.89	-55.29	-13.00	-43.89	-1.60	Peak	Horizontal



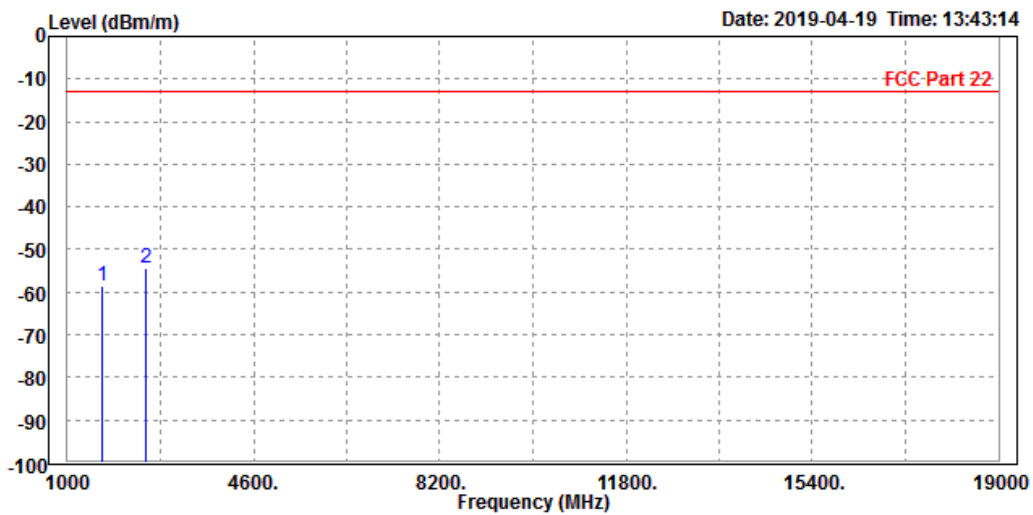


**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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	1666.000	-58.52	-55.14	-13.00	-45.52	-3.38	Peak	Vertical
2 PP	2510.000	-54.48	-54.35	-13.00	-41.48	-0.13	Peak	Vertical





BUREAU VERITAS

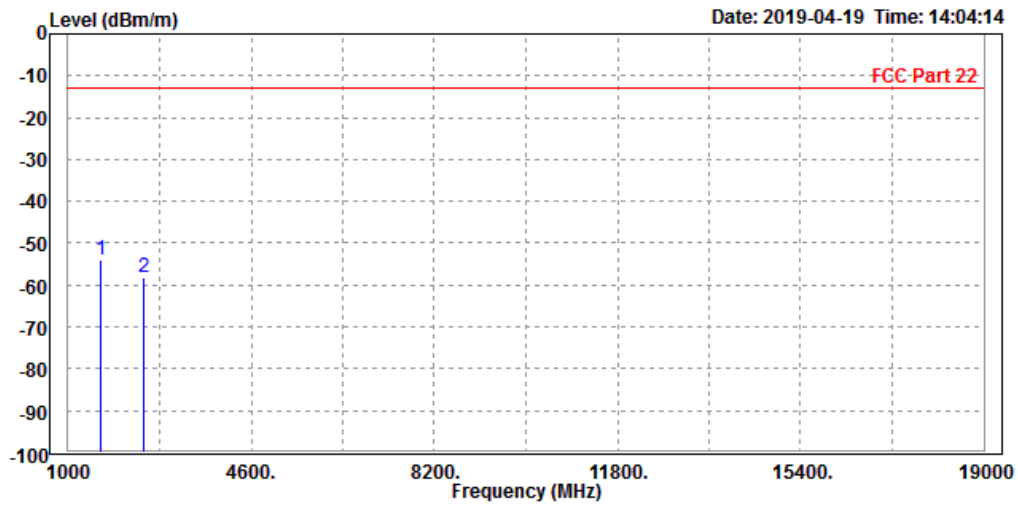
Test Report No.: RF190326W003-4

CHANNEL BANDWIDTH: 3MHz / QPSK

CH 20415

MODE	TX channel 20415	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1648.000	-54.17	-49.20	-13.00	-41.17	-4.97	Peak	Horizontal
2	2476.000	-58.19	-56.54	-13.00	-45.19	-1.65	Peak	Horizontal



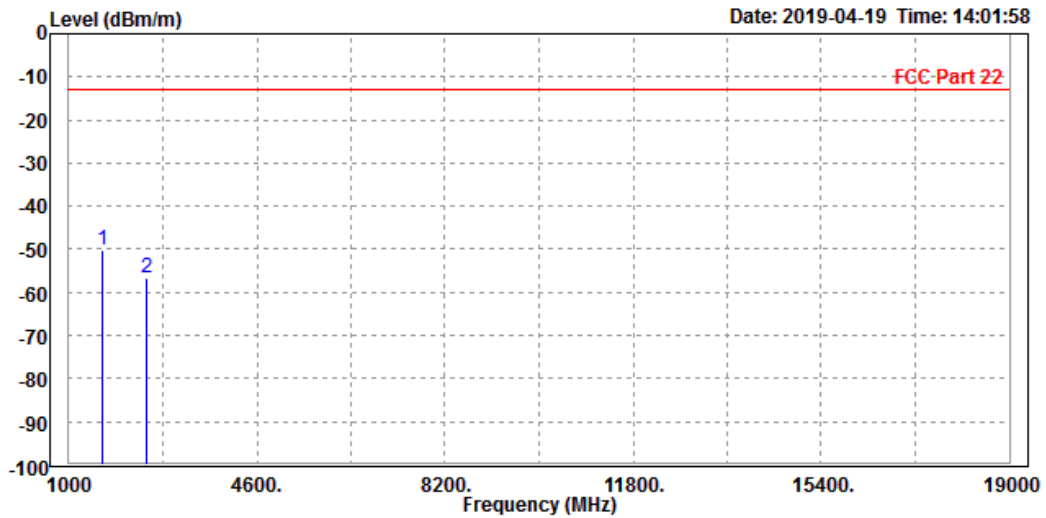


**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

MODE	TX channel 20415	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1648.000	-50.13	-46.58	-13.00	-37.13	-3.55	Peak	Vertical
2	2476.000	-56.47	-56.30	-13.00	-43.47	-0.17	Peak	Vertical





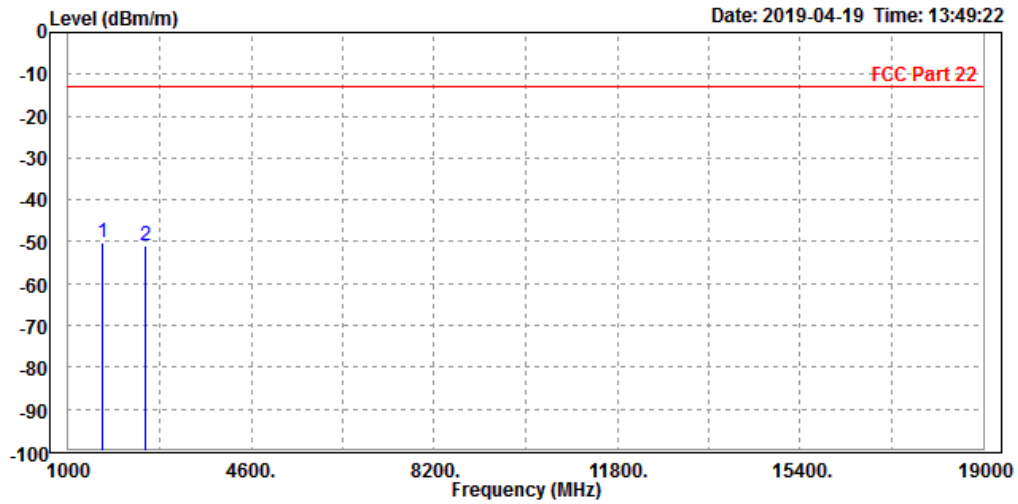
**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

CH 20525

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1666.000	-50.12	-45.30	-13.00	-37.12	-4.82	Peak	Horizontal
2	2512.000	-51.13	-49.54	-13.00	-38.13	-1.59	Peak	Horizontal



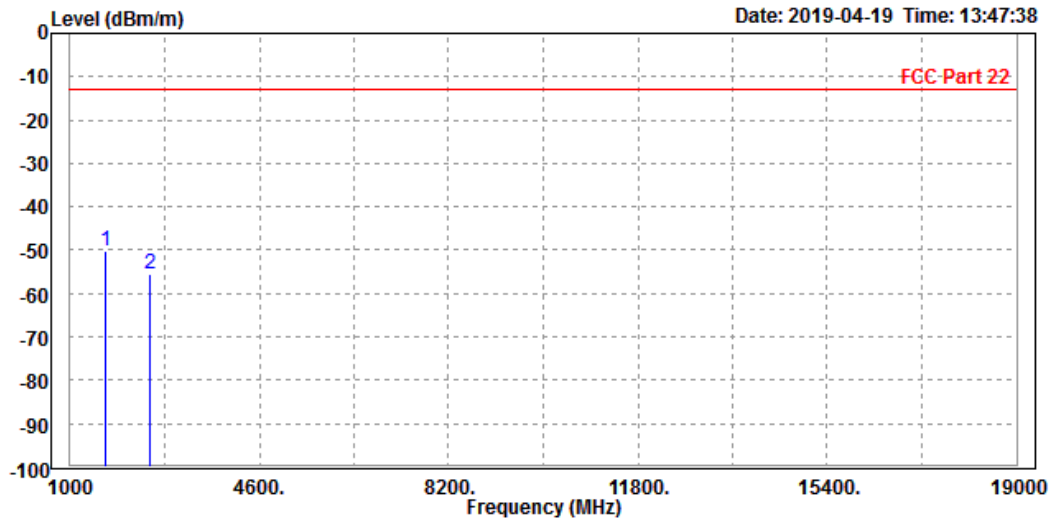


**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1666.000	-50.33	-46.95	-13.00	-37.33	-3.38	Peak	Vertical
2	2510.000	-55.63	-55.50	-13.00	-42.63	-0.13	Peak	Vertical





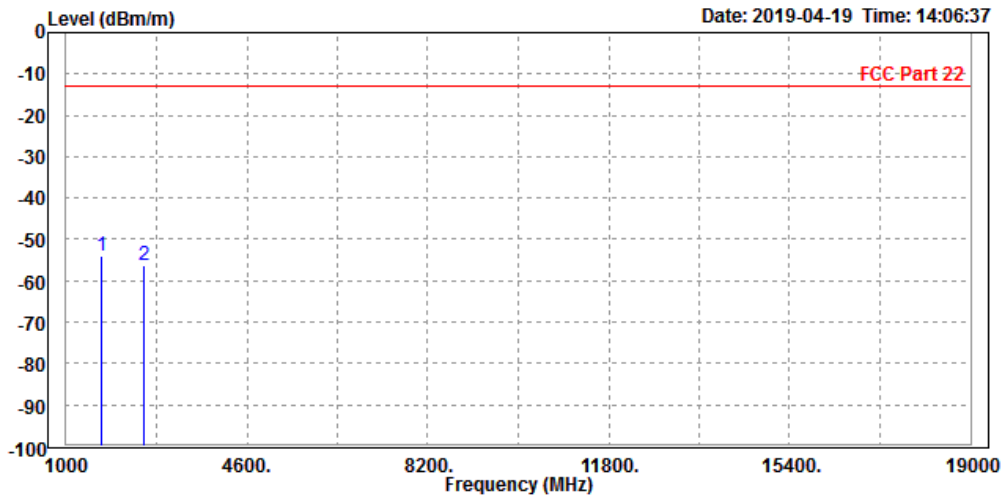
**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

CH 20635

MODE	TX channel 20635	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1702.000	-53.81	-49.29	-13.00	-40.81	-4.52	Peak	Horizontal
2	2542.000	-56.24	-54.76	-13.00	-43.24	-1.48	Peak	Horizontal



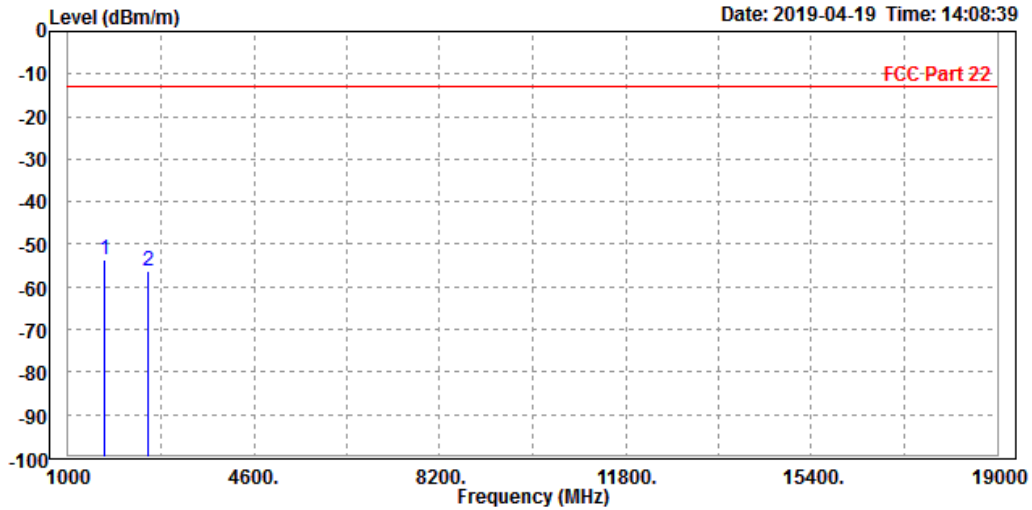


**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

MODE	TX channel 20635	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1702.000	-53.79	-50.74	-13.00	-40.79	-3.05	Peak	Vertical
2	2542.000	-56.42	-56.43	-13.00	-43.42	0.01	Peak	Vertical





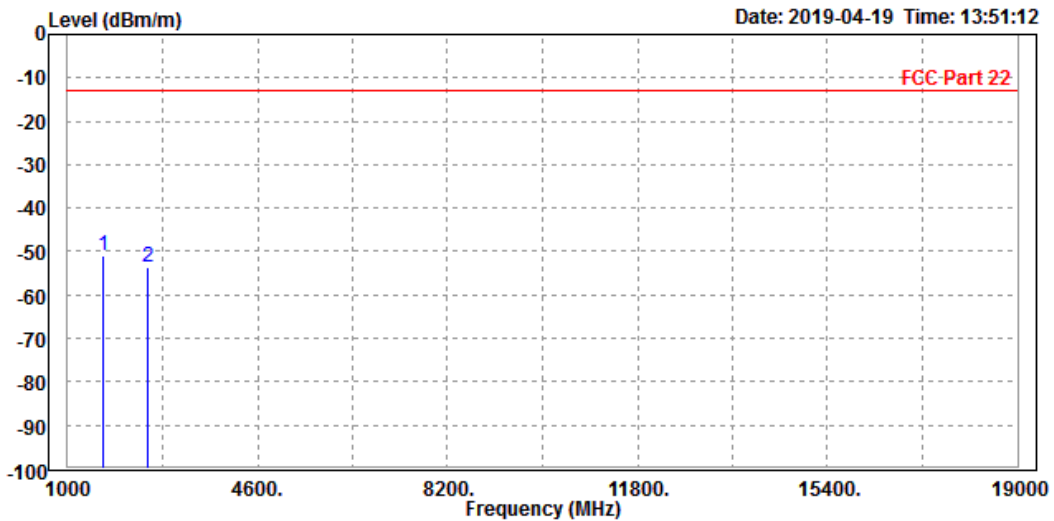
**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1666.000	-50.93	-46.11	-13.00	-37.93	-4.82	Peak	Horizontal
2	2510.000	-53.77	-52.17	-13.00	-40.77	-1.60	Peak	Horizontal



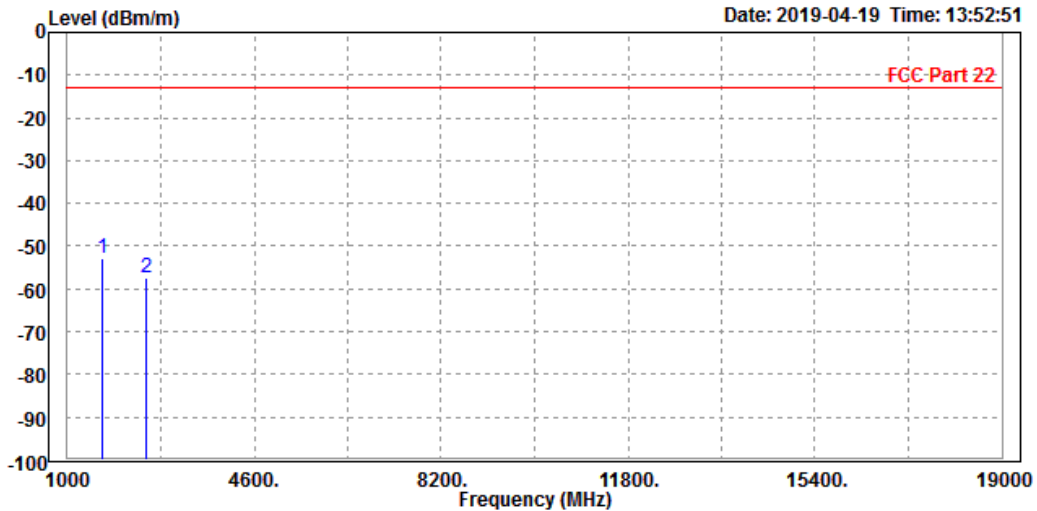


BUREAU VERITAS

Test Report No.: RF190326W003-4

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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 1666.000	-52.82	-49.44	-13.00	-39.82	-3.38	Peak	Vertical
2	2510.000	-57.49	-57.36	-13.00	-44.49	-0.13	Peak	Vertical





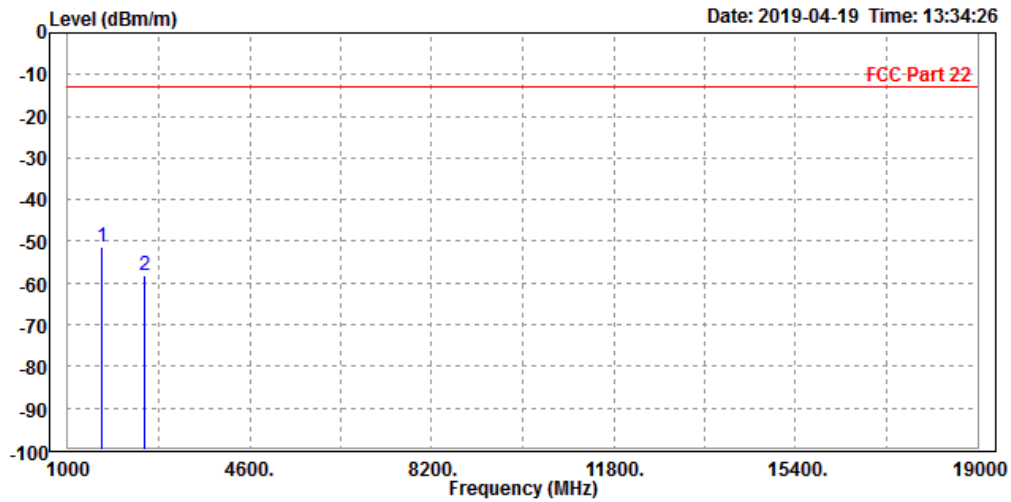
**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1666.000	-51.52	-46.70	-13.00	-38.52	-4.82	Peak	Horizontal
2	2510.000	-58.13	-56.53	-13.00	-45.13	-1.60	Peak	Horizontal



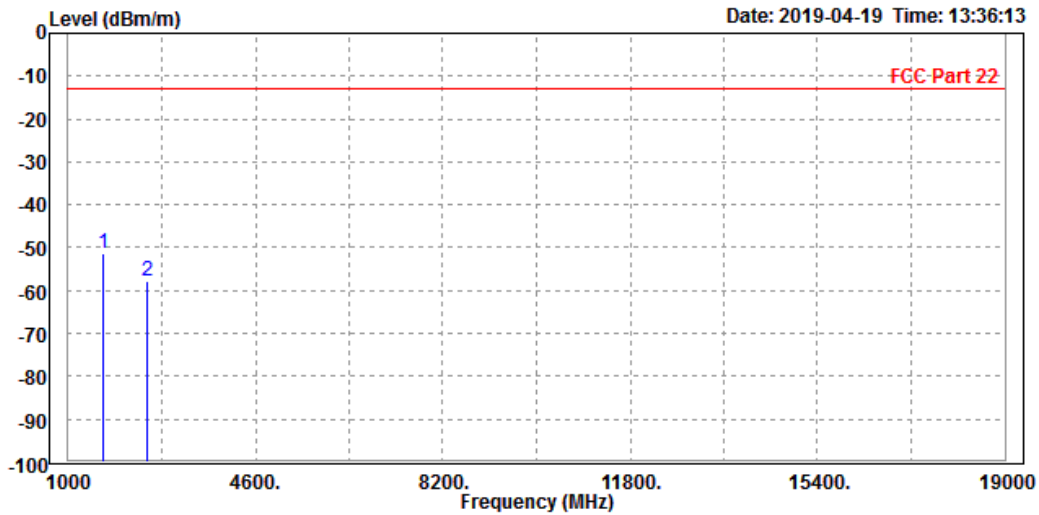


**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 24V 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 1666.000	-51.25	-47.87	-13.00	-38.25	-3.38	Peak	Vertical
2	2510.000	-57.88	-57.75	-13.00	-44.88	-0.13	Peak	Vertical

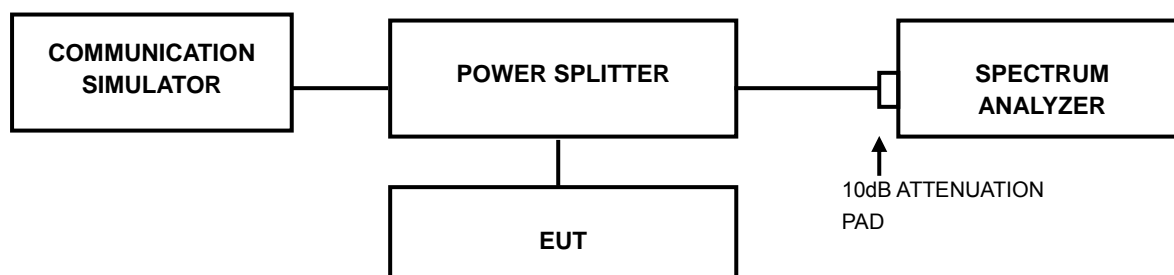


3.7 PEAK TO AVERAGE RATIO

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%.

3.7.4 TEST RESULTS

The test results was recorded in Report No.: RF160714W002-1.



**BUREAU
VERITAS**

Test Report No.: RF190326W003-4

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



Test Report No.: RF190326W003-4

5 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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Email: customerservice.dg@cn.bureauveritas.com

Web Site: www.adt.com.tw

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



Test Report No.: RF190326W003-4

6 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---