

BUREAU
VERITAS

Test Report No.: PSU-QSU2411180418RF03



Certificate #6613.01

FCC TEST REPORT

(PART 24)

Applicant:	PepperlFuchs SE
Address:	Lilienthalstrasse 200, 68307, Mannheim, Germany

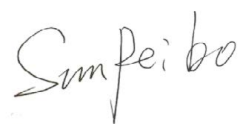
Manufacturer or Supplier:	PepperlFuchs SE
Address:	Lilienthalstrasse 200, 68307, Mannheim, Germany
Product:	Smart-Ex 203
Brand Name:	PEPPERL+FUCHS
Model Name:	Smart-Ex 203
FCC ID	2AXZAS203GR01
Date of tests	Nov. 22, 2024 ~ Jul. 31, 2025

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 Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
	
Date: Jul. 31, 2025	Date: Jul. 31, 2025

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-QSU2411180418RF03	Original release	Jul. 31, 2025



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	Test lab*
§2.1046	Conducted Output Power	Compliance	A
§24.232(c)	Equivalent Isotropic Radiated Power	Compliance	A
§2.1055 §24.235	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§24.232(d)	Peak to average ratio*	Compliance	A
§24.238(a)(b)	Band Edge Measurements	Compliance	A
§2.1051 §24.238(a)(b)	Conducted Spurious Emissions	Compliance	A
§2.1053 §24.238(a)(b)	Radiated Spurious Emissions	Compliance	A

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

*Test Lab Information Reference

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

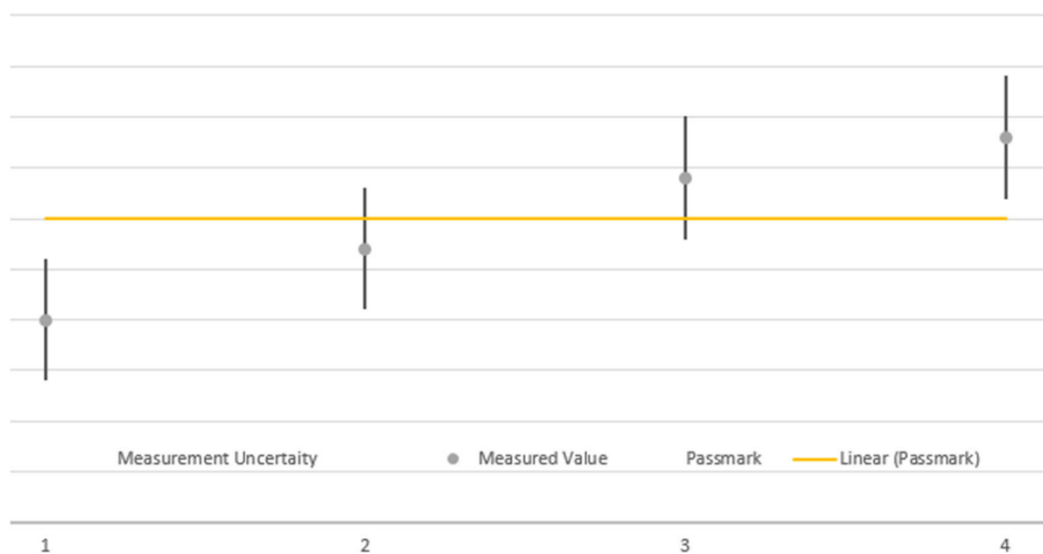


1.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	UNCERTAINTY
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions & Radiated Power (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions & Radiated Power (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
Band Edge Measurements	$\pm 4.70\text{dB}$
Peak to average ratio	$\pm 0.76\text{dB}$

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



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.



1.2 TEST SITE AND INSTRUMENTS

#1

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.29,24	Aug.28,26
Pre-Amplifier	R&S	SCU08F1	101028	Sep.15,24	Sep.14,26
Vector Signal Generator	R&S	SMBV100B	102176	Feb.15,24	Feb.14,26
Signal Generator	R&S	SMB100A	182185	Feb.15,24	Feb.14,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Feb.24,24	Feb.23,26
EMI TEST Receiver	R&S	ESW44	101973	Feb.24,24	Feb.23,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.27,24	Feb.26,26
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.21,24	Aug.20,26
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.22,24	Feb.21,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.21,24	Aug.20,26
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.22,24	Feb.21,26
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.26,24	Jun.25,26
Test Software	EMC32	EMC32	N/A	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	Sep.30,24	Sep.29,26
DC Source	HYELEC	HY3010B	551016	Aug.30,24	Aug.29,26
Hygrothermograph	DELI	20210528	SZ014	Sep.05,24	Sep.04,26
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Oct.25,24	Apr.24,25
CABLE	R&S	W13.02	N/A	Apr.24,25	Oct.23,25
CABLE	R&S	W12.14	N/A	Oct.25,24	Apr.24,25
CABLE	R&S	W12.14	N/A	Apr.24,25	Oct.23,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Oct.25,24	Apr.24,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.24,25	Oct.23,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Oct.25,24	Apr.24,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.24,25	Oct.23,25
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26

#2

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 19,24	Feb. 18,25
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 18,25	Feb. 17,26



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EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.13,24	May.12,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.12,25	May.11,26
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.02,24	Sep.01,25
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 04,24	Mar. 03,25
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 03,25	Mar. 02,26
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 04,24	Mar. 03,25
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 03,25	Mar. 02,26
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40- K-SG/QMS- 00361	15433	Aug. 22, 24	Aug. 21, 25
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 13,24	Feb. 12,25
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 12,25	Feb. 11,26
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.09,25	May.08,26
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.09,25	May.08,26
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 19,24	Feb.18,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 18,25	Feb.17,26
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143- 1216	May. 18,23	May. 17,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	May. 05,24	May. 04,25
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	May. 04,25	May. 03,26
Power Meter	Anritsu	ML2495A	1506002	Feb. 20,24	Feb. 19,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 19,25	Feb. 18,26
Power Sensor	Anritsu	MA2411B	1339352	May. 05,24	May. 04,25
Power Sensor	Anritsu	MA2411B	1339352	May. 04,25	May. 03,26
Temperature Chamber	ESPEC	SH-242	93000855	May. 10,24	May. 09,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 09,25	May. 08,26
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 16,24	Feb. 15,25
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 15,25	Feb. 14,26
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.10,24	May.09,25
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.09,25	May.08,26
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 22,24	Aug. 21,25

NOTE:

- 1 The calibration interval of the above test instruments is 12/24/ 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 2 The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
- 3 The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
- 4 The FCC Site Registration No. is 434559; The Designation No. is CN1325.

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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	Smart-Ex 203	
BRAND NAME*	PEPPERL+FUCHS	
MODEL NAME*	Smart-Ex 203	
NOMINAL VOLTAGE*	3.8V	
MODULATION TYPE*	LTE Band 2/25: QPSK, 16QAM, 64QAM, 256QAM CA_2C:QPSK,16QAM	
FREQUENCY RANGE	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
	LTE Band 25 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1914.3MHz
	LTE Band 25 Channel Bandwidth: 3MHz	1851.5MHz ~ 1913.5MHz
	LTE Band 25 Channel Bandwidth: 5MHz	1852.5MHz ~ 1912.5MHz
	LTE Band 25 Channel Bandwidth: 10MHz	1855.0MHz ~ 1910.0MHz
	LTE Band 25 Channel Bandwidth: 15MHz	1857.5MHz ~ 1907.5MHz
	LTE Band 25 Channel Bandwidth: 20MHz	1860.0MHz ~ 1905.0MHz
	LTE CA_2C (Channel Bandwidth: 5MHz+ 20MHz)	1853.3MHz ~ 1888.3MHz
	LTE CA_2C (Channel Bandwidth: 20MHz+ 5MHz)	1860MHz ~ 1895MHz
	LTE CA_2C (Channel Bandwidth: 10MHz+ 15MHz)	1855.3MHz ~ 1890.5MHz
	LTE CA_2C (Channel Bandwidth: 15MHz+ 10MHz)	1857.5MHz ~ 1892.7MHz



	LTE CA_2C (Channel Bandwidth: 15MHz+15MHz)	1857.5MHz ~ 1887.5MHz
	LTE CA_2C (Channel Bandwidth: 10MHz+20MHz)	1855.5MHz ~ 1885.6MHz
	LTE CA_2C (Channel Bandwidth: 20MHz+10MHz)	1860MHz ~ 1890.1MHz
	LTE CA_2C (Channel Bandwidth: 15MHz+20MHz)	1857.8MHz ~ 1882.9MHz
	LTE CA_2C (Channel Bandwidth: 20MHz+15MHz)	1860MHz ~ 1885.1MHz
	LTE CA_2C (Channel Bandwidth: 20MHz+20MHz)	1860MHz ~ 1880.2MHz
	CA	CA UL&DL: CA_12A-25A CA_5A-25A
MAX. EIRP POWER	LTE Band 2 Channel Bandwidth: 1.4MHz	320.63mW
	LTE Band 2 Channel Bandwidth: 3MHz	316.23mW
	LTE Band 2 Channel Bandwidth: 5MHz	312.61mW
	LTE Band 2 Channel Bandwidth: 10MHz	311.89mW
	LTE Band 2 Channel Bandwidth: 15MHz	317.69mW
	LTE Band 2 Channel Bandwidth: 20MHz	322.85mW
	LTE Band 25 Channel Bandwidth: 1.4MHz	323.59mW
	LTE Band 25 Channel Bandwidth: 3MHz	324.34mW
	LTE Band 25 Channel Bandwidth: 5MHz	320.63mW
	LTE Band 25 Channel Bandwidth: 10MHz	319.15mW
	LTE Band 25 Channel Bandwidth: 15MHz	323.59mW
	LTE Band 25 Channel Bandwidth: 20MHz	325.09mW



	LTE CA_2C (Channel Bandwidth: 5MHz+20MHz)	326.59mW
	LTE CA_2C (Channel Bandwidth: 20MHz+5MHz)	325.09mW
	LTE CA_2C (Channel Bandwidth: 10MHz+15MHz)	324.34mW
	LTE CA_2C (Channel Bandwidth: 15MHz+10MHz)	319.15mW
	LTE CA_2C (Channel Bandwidth: 15MHz+15MHz)	326.59mW
	LTE CA_2C (Channel Bandwidth: 10MHz+20MHz)	327.34mW
	LTE CA_2C (Channel Bandwidth: 20MHz+10MHz)	326.59mW
	LTE CA_2C (Channel Bandwidth: 15MHz+20MHz)	322.11mW
	LTE CA_2C (Channel Bandwidth: 20MHz+15MHz)	325.84mW
	LTE CA_2C (Channel Bandwidth: 20MHz+20MHz)	328.85mW
EMISSION DESIGNATOR	LTE Band 25 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D
		16QAM: 1M10W7D
		64QAM: 1M11W7D
		256QAM: 1M11W7D
	LTE Band 25 Channel Bandwidth: 3MHz	QPSK: 2M69G7D
		16QAM: 2M69W7D
		64QAM: 2M69W7D
		256QAM: 2M69W7D
	LTE Band 25 Channel Bandwidth: 5MHz	QPSK: 4M53G7D
		16QAM: 4M52W7D
		64QAM: 4M53W7D
		256QAM: 4M52W7D
	LTE Band 25 Channel Bandwidth: 10MHz	QPSK: 9M02G7D
		16QAM: 9M03W7D
		64QAM: 9M02W7D



		256QAM: 9M01W7D
	LTE Band 25 Channel Bandwidth: 15MHz	QPSK: 13G57D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
		256QAM: 13M5W7D
	LTE Band 25 Channel Bandwidth: 20MHz	QPSK: 18M0G7D
		16QAM: 18M0W7D
		64QAM: 18M0W7D
		256QAM: 18M0W7D
	LTE CA_2C (Channel Bandwidth: 5MHz+ 20MHz)	QPSK: 23M0G7D
		16QAM: 23M0W7D
	LTE CA_2C (Channel Bandwidth: 10MHz+15 MHz)	QPSK: 23M2G7D
		16QAM: 23M2W7D
	LTE CA_2C (Channel Bandwidth: 10MHz+20 MHz)	QPSK: 27M8G7D
		16QAM: 27M8W7D
	LTE CA_2C (Channel Bandwidth: 15MHz+10 MHz)	QPSK: 23M2G7D
		16QAM: 23M2W7D
	LTE CA_2C (Channel Bandwidth: 15MHz+15 MHz)	QPSK: 28M4G7D
		16QAM: 28M4W7D
	LTE CA_2C (Channel Bandwidth: 15MHz+20 MHz)	QPSK: 32M8G7D
		16QAM: 32M8W7D
	LTE CA_2C (Channel Bandwidth: 20MHz+5MHz)	QPSK: 23M0G7D
		16QAM: 23M0W7D
	LTE CA_2C (Channel Bandwidth: 20MHz+10MHz)	QPSK: 27M8G7D
		16QAM: 27M8W7D
	LTE CA_2C (Channel Bandwidth: 20MHz+15MHz)	QPSK: 32M8G7D
		16QAM: 32M8W7D
	LTE CA_2C (Channel Bandwidth: 20MHz+20MHz)	QPSK: 37M6G7D
		16QAM: 37M6W7D
ANTENNA GAIN*	LTE B2	Ant 2: 1.34dBi
	LTE B25	Ant 2: 1.34dBi
	LTE CA_2C	Ant 0: 1.34dBi
ANTENNA TYPE*	Main Ant: PIFA Antenna Div Ant: Coupling type (LDS)	
HW VERSION*	DVT2	
SW VERSION*	S203.14.00.00.056.4_USERDEBUG	
I/O PORTS*	Refer to user's manual	

**BUREAU VERITAS** Test Report No.: PSU-QSU2411180418RF03

CABLE SUPPLIED*	USB cable: non-shielded cable, with w/o ferrite core, 1.2 meter
EXTREME TEMPERATURE*	-20°C-55°C
EXTREME VOLTAGE*	3.4V-4.35V

NOTE:

1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
3. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receivers.

MODULATION MODE	TX FUNCTION
LTE	1TX/1RX

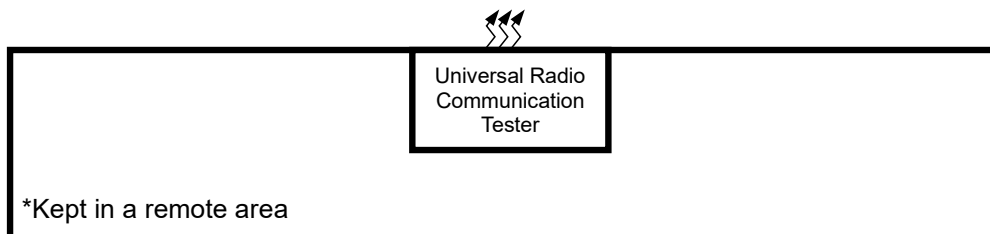
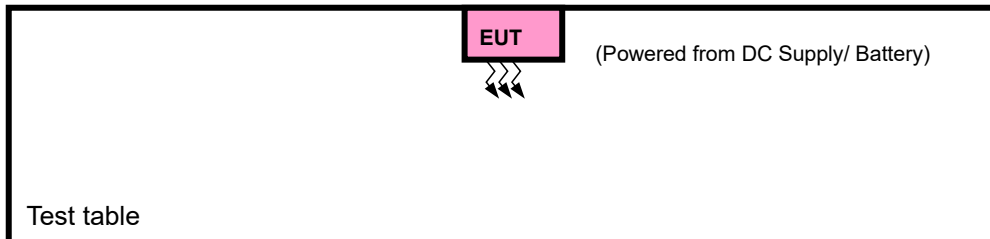
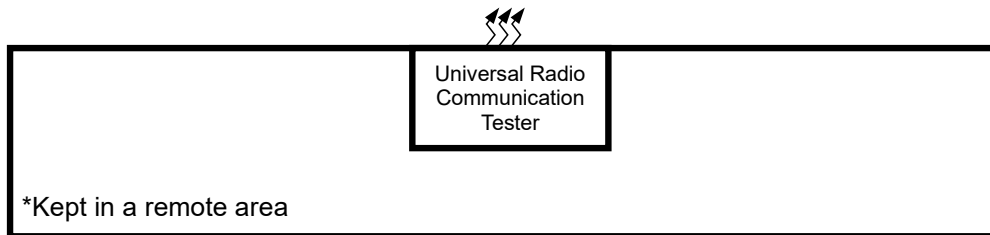
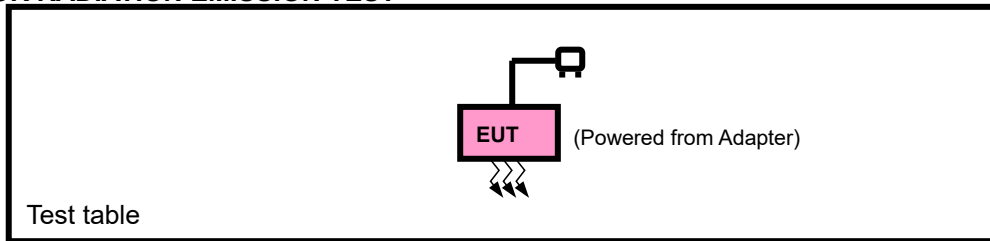
4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

5. List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
AC Adapter	N/A	Shenzhen ABP Technology Co., Ltd.	NFC05B5403C	I/P: 100-240Vac, 0.5A, O/P: 5.4Vdc, 3A, 16.2W
Battery	Pepper+Fuchs	Shenzhen Cholipower Technology Co.,Ltd.	Ex-BP S203	Capacity: 3.8Vdc, 4500mAh
USB Cable	Delock	TRAGANT Handels- und Beteiligungs GmbH	35156	Signal Line,1.2meter



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	Laptop	Lenovo	ThinkPad E14	HRSW00024	N/A
2	DC Source	HYELEC	HY3010B	551016	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable, 1.0m;
2	USB Line: Unshielded, Detachable, 1.2m;

2.4 TEST ITEM AND TEST CONFIGURATION

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

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with LTE link
B	EUT + DC Supply/ Battery with LTE link

LTE BAND 2 MODE						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. LTE Band 2 are covered by LTE Band 25, Because it is a subset of LTE Band 25 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 25



LTE BAND 25 MODE						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
B	FREQUENCY STABILITY	26090 to 26640	26090, 26640	10MHz	QPSK	100 RB / 0 RB offset
A	OCCUPIED BANDWIDTH	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	6 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM, 256QAM	15 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM, 256QAM	25 RB / 0 RB offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK, 16QAM, 64QAM, 256QAM	50 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM, 256QAM	75 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM, 256QAM	100 RB / 0 RB offset
A	PEAK TO AVERAGE RATIO	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset 6 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset 15 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset 25 RB / 0 RB offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset 50 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset 75 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset 100 RB / 0 RB offset
A	BAND EDGE	26047 to 26683	26047	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset 6 RB / 0 RB offset
			26683	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 5 RB offset 6 RB / 0 RB offset
		26055 to 26675	26055	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset 15 RB / 0 RB offset



			26675	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 14 RB offset
						15 RB / 0 RB offset
		26065 to 26665	26065	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
						25 RB / 0 RB offset
			26665	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 24 RB offset
						25 RB / 0 RB offset
		26090 to 26640	26090	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
						50 RB / 0 RB offset
			26640	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 49 RB offset
						50 RB / 0 RB offset
		26115 to 26615	26115	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
						75 RB / 0 RB offset
			26615	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 74 RB offset
						75 RB / 0 RB offset
A	CONDCUETED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
A	RADIATED EMISSION	26047 to 26683	26365	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26055 to 26675	26365	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26065 to 26665	26365	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26115 to 26615	26365	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		26140 to 26590	26365	20MHz	QPSK, 16QAM, 64QAM, 256QAM	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.



LTE BAND CA_2C MODE								
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	18633 to 18983	18750 to 19100	Low, Middle, High	5MHz+20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		18700 to 19050	18817 to 19167	Low, Middle, High	20MHz+5MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		18653 to 19005	18773 to 19125	Low, Middle, High	10MHz+15MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		18675 to 19027	18795 to 19147	Low, Middle, High	15MHz+10MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		18675 to 18975	18825 to 19125	Low, Middle, High	15MHz+15MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		18655 to 18956	18799 to 19100	Low, Middle, High	10MHz+20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB / 49RB Offset	1RB / 0RB Offset
		18700 to 19001	18844 to 19145	Low, Middle, High	20MHz+10MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		18678 to 18929	18849 to 19100	Low, Middle, High	15MHz+20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		18700 to 18951	18871 to 19122	Low, Middle, High	20MHz+15MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		18633 to 18983	18750 to 19100	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM, 64QAM, 256QAM	1RB / 99RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	18633 to 18983	18750 to 19100	Low, Middle, High	5MHz+20MHz	QPSK, 16QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		18700 to 19050	18817 to 19167	Low, Middle, High	20MHz+5MHz	QPSK, 16QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		18653 to 19005	18773 to 19125	Low, Middle, High	10MHz+15MHz	QPSK, 16QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		18675 to 19027	18795 to 19147	Low, Middle, High	15MHz+10MHz	QPSK, 16QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		18675 to 18975	18825 to 19125	Low, Middle, High	15MHz+15MHz	QPSK, 16QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		18655 to 18956	18799 to 19100	Low, Middle, High	10MHz+20MHz	QPSK, 16QAM	1RB / 49RB Offset	1RB / 0RB Offset
		18700 to 19001	18844 to 19145	Low, Middle, High	20MHz+10MHz	QPSK, 16QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		18678 to 18929	18849 to 19100	Low, Middle, High	15MHz+20MHz	QPSK, 16QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		18700 to 18951	18871 to 19122	Low, Middle, High	20MHz+15MHz	QPSK, 16QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		18633 to 18983	18750 to 19100	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM	1RB / 99RB Offset	1RB/ 0RB Offset
A	BAND EDGE	18633 to 18983	18750 to 19100	Low	20MHz+20MHz	QPSK, 16QAM	1RB / 99RB Offset	1RB/ 0RB Offset



							1RB / 99RB Offset	1RB/ 0RB Offset
							1RB / 99RB Offset	1RB/ 0RB Offset
							1RB / 99RB Offset	1RB/ 0RB Offset
				High	20MHz+20MHz		1RB / 99RB Offset	1RB/ 0RB Offset
							1RB / 99RB Offset	1RB/ 0RB Offset
A	CONDUCTED EMISSION	18633 to 18983	18750 to 19100	Low, Middle, High	20MHz+20MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	20450 to 20501	20549 to 20600	Low, Middle, High	20MHz+20MHz	QPSK	1RB / 99RB Offset	1RB/ 0RB Offset

TEST CONDITION			
TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 5.4V By Adapter	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.4/3.8/4,35V By Battery	Hanwen Xu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 5.4V By Adapter	Hanwen Xu
BAND EDGE	23deg. C, 70%RH	DC 5.4V By Adapter	Hanwen Xu
CONDCUDED EMISSION	23deg. C, 70%RH	DC 5.4V By Adapter	Hanwen Xu
RADIATED EMISSION	23deg. C, 70%RH	DC 5.4V By Adapter	Hanwen Xu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 5.4V By Adapter	Hanwen Xu



2.5 EUT OPERATING CONDITIONS

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

2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC 47 CFR Part 2

FCC 47 CFR Part 24

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

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



3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts EIRP.

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

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

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:

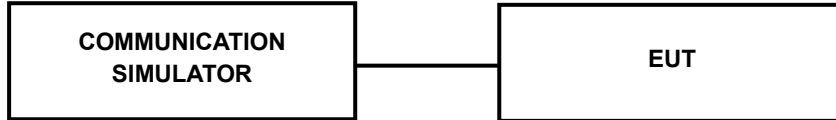
The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm) :

LTE BAND 2 (Ant2)						
Band/BW	Modulation	RB Size	RB offset	Low CH 18607	Mid CH 18900	High CH 19193
				Frequency 1850.7 MHz	Frequency 1880 MHz	Frequency 1909.3 MHz
2/ 1.4	QPSK	1	0	23.68	23.72	23.25
		1	2	23.34	23.47	23.14
		1	5	23.57	23.26	23.22
		3	0	23.29	23.34	23.06
		3	1	23.42	23.14	23.16
		3	3	23.29	23.05	22.96
		6	0	22.67	22.41	22.20
	16QAM	1	0	22.70	22.60	22.31
		1	2	22.51	22.50	22.33
		1	5	22.58	22.42	22.32
		3	0	22.42	22.32	22.28
		3	1	22.51	22.21	22.07
		3	3	22.34	22.18	22.07
		6	0	21.65	21.50	21.44
	64QAM	1	0	21.59	21.60	21.29
		1	2	21.46	21.49	21.25
		1	5	21.25	21.22	21.20
		3	0	21.45	21.39	21.31
		3	1	21.36	21.18	21.02
		3	3	21.42	21.06	20.96
		6	0	20.53	20.43	20.19
	256QAM	1	0	18.81	18.88	18.30
		1	2	18.49	18.35	18.26
		1	5	18.70	18.55	18.30
		3	0	18.60	18.46	18.21
		3	1	18.55	18.35	18.19
		3	3	18.32	18.13	18.36
		6	0	18.62	18.47	18.23
LTE BAND 2 (Ant2)						
Band/BW	Modulation	RB Size	RB offset	Low CH 18615	Mid CH 18900	High CH 19185



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				Frequency 1851.5MHz	Frequency 1880 MHz	Frequency 1908.5 MHz
2/3	QPSK	1	0	23.62	23.66	23.25
		1	7	23.29	23.45	23.22
		1	14	23.56	23.32	23.22
		8	0	22.54	22.51	22.26
		8	3	22.58	22.34	22.27
		8	7	22.55	22.32	22.14
		15	0	22.63	22.43	22.20
	16QAM	1	0	22.72	22.54	22.42
		1	7	22.46	22.43	22.41
		1	14	22.67	22.37	22.37
		8	0	21.57	21.62	21.39
		8	3	21.65	21.48	21.20
		8	7	21.58	21.36	21.29
		15	0	21.69	21.40	21.33
	64QAM	1	0	21.62	21.68	21.27
		1	7	21.42	21.52	21.25
		1	14	21.22	21.16	21.15
		8	0	20.64	20.49	20.36
		8	3	20.60	20.44	20.21
		8	7	20.60	20.24	20.26
		15	0	20.56	20.45	20.21
	256QAM	1	0	18.75	18.82	18.31
		1	7	18.50	18.29	18.37
		1	14	18.62	18.48	18.35
		8	0	18.73	18.57	18.45
		8	3	18.80	18.52	18.33
		8	7	18.49	18.36	18.14
		15	0	18.66	18.51	18.17

LTE BAND 2 (Ant2)

Band/BW	Modulation	RB Size	RB offset	Low CH 18625	Mid CH 18900	High CH 19175
				Frequency 1852.5MHz	Frequency 1880 MHz	Frequency 1907.5MHz
2/ 5	QPSK	1	0	23.60	23.61	23.31
		1	12	23.27	23.58	23.16
		1	24	23.56	23.27	23.21
		12	0	22.49	22.49	22.23
		12	6	22.60	22.30	22.35
		12	13	22.44	22.29	22.25
		25	0	22.61	22.37	22.27
	16QAM	1	0	22.75	22.64	22.37
		1	12	22.53	22.41	22.35
		1	24	22.61	22.44	22.33
		12	0	21.70	21.52	21.42
		12	6	21.58	21.40	21.27
		12	13	21.58	21.41	21.20
		25	0	21.71	21.44	21.40
	64QAM	1	0	21.64	21.69	21.22
		1	12	21.34	21.55	21.26



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		1	24	21.30	21.17	21.15
		12	0	20.71	20.59	20.40
		12	6	20.47	20.42	20.25
		12	13	20.57	20.29	20.14
		25	0	20.54	20.48	20.15
	256QAM	1	0	18.71	18.79	18.39
		1	12	18.55	18.42	18.25
		1	24	18.64	18.51	18.27
		12	0	18.76	18.61	18.46
		12	6	18.76	18.58	18.32
		12	13	18.51	18.26	18.15
		25	0	18.56	18.57	18.13

LTE BAND 2 (Ant2)						
Band/BW	Modulation	RB Size	RB offset	Low CH 18650	Mid CH 18900	High CH 19150
				Frequency 1855MHz	Frequency 1880 MHz	Frequency 1905MHz
2/ 10	QPSK	1	0	23.55	23.60	23.23
		1	24	23.25	23.50	23.22
		1	49	23.57	23.34	23.23
		25	0	22.55	22.51	22.21
		25	12	22.56	22.33	22.30
		25	25	22.55	22.28	22.26
		50	0	22.70	22.42	22.15
	16QAM	1	0	22.70	22.55	22.35
		1	24	22.49	22.50	22.42
		1	49	22.69	22.38	22.37
		25	0	21.68	21.56	21.37
		25	12	21.69	21.41	21.22
		25	25	21.63	21.38	21.20
		50	0	21.63	21.53	21.35
	64QAM	1	0	21.55	21.64	21.29
		1	24	21.46	21.55	21.31
		1	49	21.35	21.21	21.19
		25	0	20.71	20.60	20.41
		25	12	20.56	20.37	20.26
		25	25	20.63	20.27	20.12
		50	0	20.62	20.37	20.26
	256QAM	1	0	18.77	18.87	18.30
		1	24	18.55	18.33	18.31
		1	49	18.71	18.59	18.36
		25	0	18.74	18.62	18.36
		25	12	18.74	18.57	18.24
		25	25	18.55	18.30	18.13
		50	0	18.57	18.60	18.15
LTE BAND 2 (Ant2)						
Band/BW	Modulation	RB Size	RB offset	Low CH 18675	Mid CH 18900	High CH 19125



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				Frequency 1857.5MHz	Frequency 1880 MHz	Frequency 1902.5MHz
2/ 15	QPSK	1	0	23.63	23.68	23.31
		1	37	23.24	23.45	23.20
		1	74	23.57	23.26	23.16
		36	0	22.49	22.46	22.31
		36	19	22.61	22.36	22.33
		36	39	22.50	22.34	22.20
		75	0	22.70	22.34	22.25
	16QAM	1	0	22.65	22.56	22.36
		1	37	22.50	22.40	22.42
		1	74	22.59	22.41	22.31
		36	0	21.60	21.53	21.36
		36	19	21.64	21.48	21.19
		36	39	21.58	21.41	21.18
		75	0	21.64	21.53	21.41
	64QAM	1	0	21.59	21.63	21.35
		1	37	21.46	21.56	21.26
		1	74	21.34	21.16	21.17
		36	0	20.74	20.49	20.49
		36	19	20.49	20.35	20.20
		36	39	20.57	20.32	20.14
		75	0	20.53	20.38	20.26
	256QAM	1	0	18.83	18.89	18.29
		1	37	18.50	18.29	18.27
		1	74	18.60	18.50	18.26
		36	0	18.76	18.58	18.46
		36	19	18.69	18.57	18.29
		36	39	18.48	18.39	18.13
		75	0	18.60	18.54	18.12

LTE BAND 2 (Ant2)

Band/BW	Modulation	RB Size	RB offset	Low CH 18700	Mid CH 18900	High CH 19100
				Frequency 1860MHz	Frequency 1880 MHz	Frequency 1900MHz
2/ 20	QPSK	1	0	23.72	23.75	23.48
		1	50	23.52	23.66	23.36
		1	99	23.68	23.44	23.34
		50	0	22.66	22.68	22.48
		50	25	22.55	22.57	22.43
		50	50	22.51	22.52	22.32
		100	0	22.53	22.56	22.41
	16QAM	1	0	22.64	22.72	22.55
		1	50	22.73	22.68	22.48
		1	99	22.74	22.63	22.46
		50	0	21.79	21.73	21.56
		50	25	21.78	21.59	21.41
		50	50	21.73	21.53	21.44
		100	0	21.79	21.59	21.52
	64QAM	1	0	21.76	21.77	21.47
		1	50	21.53	21.67	21.44



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		1	99	21.47	21.31	21.28
		50	0	20.87	20.71	20.52
		50	25	20.75	20.57	20.43
		50	50	20.71	20.44	20.31
		100	0	20.81	20.52	20.44
	256QAM	1	0	18.94	18.92	18.50
		1	50	18.66	18.49	18.42
		1	99	18.86	18.63	18.48
		50	0	18.88	18.74	18.56
		50	25	18.85	18.65	18.45
		50	50	18.68	18.48	18.36
		100	0	18.71	18.64	18.32

LTE BAND 25						
Band/BW	Modulation	RB Size	RB offset	Low CH 26047	Mid CH 26365	High CH 26683
				Frequency 1850.7 MHz	Frequency 1882.5 MHz	Frequency 1914.3 MHz
25/ 1.4	QPSK	1	0	23.65	23.47	23.27
		1	2	23.76	23.55	23.33
		1	5	23.74	23.39	23.13
		3	0	23.51	23.36	23.12
		3	1	23.65	23.47	23.32
		3	3	23.70	23.36	22.98
		6	0	22.63	22.43	22.46
	16QAM	1	0	22.72	22.80	22.67
		1	2	22.80	22.74	22.48
		1	5	22.77	22.72	22.51
		3	0	22.64	22.75	22.65
		3	1	22.67	22.61	22.45
		3	3	22.62	22.62	22.49
		6	0	21.38	21.44	21.30
	64QAM	1	0	21.83	21.83	21.73
		1	2	21.87	21.62	21.54
		1	5	21.81	21.57	21.54
		3	0	21.78	21.77	21.68
		3	1	21.74	21.56	21.50
		3	3	21.66	21.54	21.53
		6	0	20.56	20.51	20.45
	256QAM	1	0	18.78	18.77	18.77
		1	2	18.77	18.82	18.82
		1	5	18.81	18.71	18.59
		3	0	18.82	18.58	18.60
		3	1	18.67	18.51	18.60
		3	3	18.57	18.53	18.41
		6	0	18.67	18.50	18.48
Band/BW	Modulation	RB Size	RB offset	Low CH 26055	Mid CH 26365	High CH 26675



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				Frequency 1851.5 MHz	Frequency 1882.5 MHz	Frequency 1913.5 MHz
25/ 3	QPSK	1	0	23.63	23.42	23.32
		1	7	23.77	23.56	23.36
		1	14	23.72	23.31	23.08
		8	0	22.79	22.61	22.58
		8	3	22.58	22.40	22.38
		8	7	22.74	22.36	22.36
		15	0	22.68	22.50	22.32
	16QAM	1	0	22.65	22.67	22.68
		1	7	22.74	22.72	22.53
		1	14	22.85	22.65	22.44
		8	0	21.72	21.57	21.39
		8	3	21.64	21.62	21.40
		8	7	21.49	21.48	21.39
		15	0	21.45	21.37	21.26
	64QAM	1	0	21.71	21.85	21.75
		1	7	21.86	21.76	21.60
		1	14	21.76	21.53	21.60
		8	0	20.83	20.74	20.65
		8	3	20.66	20.53	20.42
		8	7	20.55	20.46	20.47
		15	0	20.53	20.57	20.48
	256QAM	1	0	18.68	18.74	18.82
		1	7	18.83	18.80	18.81
		1	14	18.79	18.73	18.70
		8	0	18.74	18.67	18.61
		8	3	18.70	18.56	18.60
		8	7	18.62	18.55	18.39
		15	0	18.59	18.50	18.37
LTE BAND 25						
Band/BW	Modulation	RB Size	RB offset	Low CH 26065	Mid CH 26365	High CH 26665
				Frequency 1852.5 MHz	Frequency 1882.5 MHz	Frequency 1912.5 MHz
25/ 5	QPSK	1	0	23.67	23.50	23.28
		1	12	23.72	23.55	23.36
		1	24	23.65	23.34	23.08
		12	0	22.70	22.69	22.52
		12	6	22.68	22.44	22.38
		12	13	22.76	22.46	22.32
		25	0	22.70	22.46	22.39
	16QAM	1	0	22.73	22.78	22.72
		1	12	22.72	22.64	22.48
		1	24	22.84	22.59	22.46
		12	0	21.71	21.65	21.37
		12	6	21.72	21.62	21.32
		12	13	21.46	21.58	21.28
		25	0	21.33	21.41	21.20
	64QAM	1	0	21.77	21.79	21.71
		1	12	21.87	21.70	21.60



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		1	24	21.78	21.56	21.53	
		12	0	20.80	20.67	20.56	
		12	6	20.62	20.51	20.42	
		12	13	20.60	20.39	20.46	
		25	0	20.57	20.54	20.44	
	256QAM	1	0	18.65	18.74	18.72	
		1	12	18.84	18.88	18.84	
		1	24	18.76	18.74	18.61	
		12	0	18.79	18.66	18.58	
		12	6	18.74	18.54	18.54	
		12	13	18.61	18.51	18.53	
		25	0	18.60	18.45	18.42	
	Band/BW	Modulation	RB Size	RB offset	Low CH 26090	Mid CH 26365	High CH 26640
Frequency 1855 MHz					Frequency 1882.5 MHz	Frequency 1910 MHz	
25/ 10	QPSK	1	0	23.70	23.50	23.29	
		1	24	23.69	23.64	23.31	
		1	49	23.62	23.29	23.15	
		25	0	22.74	22.60	22.59	
		25	12	22.57	22.44	22.43	
		25	25	22.68	22.35	22.42	
		50	0	22.64	22.52	22.34	
		16QAM	1	0	22.69	22.74	22.62
	1		24	22.76	22.64	22.42	
	1		49	22.76	22.65	22.44	
	25		0	21.72	21.64	21.38	
	25		12	21.66	21.64	21.31	
	25		25	21.54	21.60	21.33	
	50		0	21.35	21.37	21.18	
	64QAM		1	0	21.70	21.80	21.80
		1	24	21.75	21.64	21.65	
		1	49	21.74	21.49	21.53	
		25	0	20.81	20.64	20.58	
		25	12	20.69	20.49	20.50	
		25	25	20.59	20.49	20.44	
		50	0	20.56	20.57	20.42	
		256QAM	1	0	18.75	18.72	18.79
	1		24	18.71	18.74	18.82	
	1		49	18.81	18.68	18.69	
	25		0	18.76	18.59	18.62	
	25		12	18.71	18.58	18.59	
	25		25	18.61	18.46	18.45	
	50		0	18.54	18.45	18.43	
	LTE BAND 25						
	Band/BW	Modulation	RB Size	RB offset	Low CH 26115	Mid CH 26365	High CH 26615
					Frequency 1857.5 MHz	Frequency 1882.5 MHz	Frequency 1907.5 MHz
	25/ 15	QPSK	1	0	23.63	23.47	23.28
1			37	23.76	23.55	23.30	



		1	74	23.68	23.33	23.08
		36	0	22.73	22.71	22.61
		36	19	22.63	22.53	22.38
		36	39	22.66	22.44	22.41
		75	0	22.75	22.47	22.44
	16QAM	1	0	22.79	22.80	22.68
		1	37	22.74	22.68	22.46
		1	74	22.77	22.60	22.41
		36	0	21.70	21.53	21.36
		36	19	21.60	21.64	21.42
		36	39	21.49	21.49	21.40
		75	0	21.47	21.41	21.19
	64QAM	1	0	21.76	21.84	21.75
		1	37	21.79	21.74	21.58
		1	74	21.76	21.53	21.56
		36	0	20.76	20.70	20.63
		36	19	20.71	20.51	20.44
		36	39	20.50	20.47	20.49
		75	0	20.61	20.49	20.39
	256QAM	1	0	18.71	18.85	18.73
		1	37	18.84	18.76	18.88
		1	74	18.78	18.71	18.73
		36	0	18.79	18.70	18.68
		36	19	18.71	18.51	18.66
		36	39	18.59	18.47	18.52
		75	0	18.58	18.49	18.40
Band/BW	Modulation	RB Size	RB offset	Low CH 26140	Mid CH 26365	High CH 26590
				Frequency 1860 MHz	Frequency 1882.5 MHz	Frequency 1905 MHz
25/ 20	QPSK	1	0	23.77	23.52	23.40
		1	50	23.78	23.66	23.41
		1	99	23.75	23.43	23.22
		50	0	22.81	22.72	22.64
		50	25	22.72	22.54	22.48
		50	50	22.77	22.49	22.46
		100	0	22.78	22.57	22.47
	16QAM	1	0	22.80	22.82	22.76
		1	50	22.87	22.77	22.54
		1	99	22.89	22.73	22.53
		50	0	21.76	21.68	21.48
		50	25	21.73	21.67	21.44
		50	50	21.57	21.61	21.42
		100	0	21.48	21.50	21.32
	64QAM	1	0	21.84	21.86	21.85
		1	50	21.89	21.77	21.68
		1	99	21.87	21.61	21.62
		50	0	20.86	20.75	20.68
		50	25	20.74	20.57	20.54
		50	50	20.65	20.54	20.51
		100	0	20.63	20.59	20.52
	256QAM	1	0	18.79	18.87	18.84



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	1	50	18.85	18.89	18.89
	1	99	18.87	18.75	18.74
	50	0	18.86	18.73	18.71
	50	25	18.76	18.64	18.69
	50	50	18.65	18.56	18.54
	100	0	18.68	18.59	18.52

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CA-2C

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Combination 5MHz+20MHz (25RB+100RB)										
PCC Channel	PCC Frequency	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)	Max Tune-up (dBm)
					RB Size	RB offset	RB Size	RB offset		
18633	1853.3	18750	1865	QPSK	1	24	1	0	23.66	24
				16QAM	1	24	1	0	22.74	23
				64QAM	1	24	1	0	21.68	22
				256QAM	1	24	1	0	18.71	19
18808	1870.8	18925	1882.5	QPSK	1	24	1	0	23.80	24
				16QAM	1	24	1	0	22.69	23
				64QAM	1	24	1	0	21.62	22
				256QAM	1	24	1	0	18.86	19
18983	1888.3	19100	1900	QPSK	1	24	1	0	23.56	24
				16QAM	1	24	1	0	22.74	23
				64QAM	1	24	1	0	21.79	22
				256QAM	1	24	1	0	18.69	19

Combination 20MHz+5MHz (100RB+25RB)										
PCC Channel	PCC Frequency	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)	Max Tune-up (dBm)
					RB Size	RB offset	RB Size	RB offset		
18700	1860	18817	1871.7	QPSK	1	99	1	0	23.78	24
				16QAM	1	99	1	0	22.77	23
				64QAM	1	99	1	0	21.65	22
				256QAM	1	99	1	0	18.83	19
18875	1877.5	18992	1889.2	QPSK	1	99	1	0	23.71	24
				16QAM	1	99	1	0	22.73	23
				64QAM	1	99	1	0	21.63	22
				256QAM	1	99	1	0	18.83	19
19050	1895	19167	1906.7	QPSK	1	99	1	0	23.54	24
				16QAM	1	99	1	0	22.73	23
				64QAM	1	99	1	0	21.75	22
				256QAM	1	99	1	0	18.75	19

Combination 10MHz+15MHz (50RB+75RB)										
PCC Channel	PCC Frequency	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)	Max Tune-up (dBm)
					RB Size	RB offset	RB Size	RB offset		
18653	1855.3	18773	1867.3	QPSK	1	49	1	0	23.66	24
				16QAM	1	49	1	0	22.78	23
				64QAM	1	49	1	0	21.61	22
				256QAM	1	49	1	0	18.72	19
18829	1872.9	18949	1884.9	QPSK	1	49	1	0	23.77	24
				16QAM	1	49	1	0	22.79	23
				64QAM	1	49	1	0	21.70	22
				256QAM	1	49	1	0	18.84	19
19005	1890.5	19125	1902.5	QPSK	1	49	1	0	23.55	24
				16QAM	1	49	1	0	22.78	23
				64QAM	1	49	1	0	21.79	22
				256QAM	1	49	1	0	18.68	19



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Combination 15MHz+10MHz (75RB+50RB)										
PCC Channel	PCC Frequency	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)	Max Tune-up (dBm)
					RB Size	RB offset	RB Size	RB offset		
18675	1857.5	18795	1869.5	QPSK	1	74	1	0	23.66	24
				16QAM	1	74	1	0	22.74	23
				64QAM	1	74	1	0	21.62	22
				256QAM	1	74	1	0	18.80	19
18851	1875.1	18971	1887.1	QPSK	1	74	1	0	23.70	24
				16QAM	1	74	1	0	22.80	23
				64QAM	1	74	1	0	21.65	22
				256QAM	1	74	1	0	18.86	19
19027	1892.7	19147	1904.7	QPSK	1	74	1	0	23.58	24
				16QAM	1	74	1	0	22.79	23
				64QAM	1	74	1	0	21.71	22
				256QAM	1	74	1	0	18.78	19

Combination 15MHz+15MHz (75RB+75RB)										
PCC Channel	PCC Frequency	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)	Max Tune-up (dBm)
					RB Size	RB offset	RB Size	RB offset		
18675	1857.5	18825	1872.5	QPSK	1	74	1	0	23.72	24
				16QAM	1	74	1	0	22.78	23
				64QAM	1	74	1	0	21.70	22
				256QAM	1	74	1	0	18.82	19
18825	1872.5	18975	1887.5	QPSK	1	74	1	0	23.80	24
				16QAM	1	74	1	0	22.83	23
				64QAM	1	74	1	0	21.68	22
				256QAM	1	74	1	0	18.78	19
18975	1887.5	19125	1902.5	QPSK	1	74	1	0	23.66	24
				16QAM	1	74	1	0	22.74	23
				64QAM	1	74	1	0	21.80	22
				256QAM	1	74	1	0	18.78	19

Combination 10MHz+20MHz (50RB+100RB)										
PCC Channel	PCC Frequency	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)	Max Tune-up (dBm)
					RB Size	RB offset	RB Size	RB offset		
18655	1855.5	18799	1869.9	QPSK	1	49	1	0	23.73	24
				16QAM	1	49	1	0	22.72	23
				64QAM	1	49	1	0	21.70	22
				256QAM	1	49	1	0	18.82	19
18806	1870.6	18950	1885	QPSK	1	49	1	0	23.81	24
				16QAM	1	49	1	0	22.83	23
				64QAM	1	49	1	0	21.62	22
				256QAM	1	49	1	0	18.83	19
18956	1885.6	19100	1900	QPSK	1	49	1	0	23.67	24
				16QAM	1	49	1	0	22.84	23
				64QAM	1	49	1	0	21.79	22
				256QAM	1	49	1	0	18.72	19



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Combination 20MHz+10MHz (100RB+50RB)										
PCC Channel	PCC Frequency	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)	Max Tune-up (dBm)
					RB Size	RB offset	RB Size	RB offset		
18700	1860	18844	1874.4	QPSK	1	99	1	0	23.80	24
				16QAM	1	99	1	0	22.80	23
				64QAM	1	99	1	0	21.59	22
				256QAM	1	99	1	0	18.83	19
18851	1875.1	18995	1889.5	QPSK	1	99	1	0	23.71	24
				16QAM	1	99	1	0	22.81	23
				64QAM	1	99	1	0	21.61	22
				256QAM	1	99	1	0	18.74	19
19001	1890.1	19145	1904.5	QPSK	1	99	1	0	23.63	24
				16QAM	1	99	1	0	22.82	23
				64QAM	1	99	1	0	21.69	22
				256QAM	1	99	1	0	18.76	19

Combination 15MHz+20MHz (75RB+100RB)										
PCC Channel	PCC Frequency	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)	Max Tune-up (dBm)
					RB Size	RB offset	RB Size	RB offset		
18678	1857.8	18849	1874.9	QPSK	1	74	1	0	23.74	24
				16QAM	1	74	1	0	22.71	23
				64QAM	1	74	1	0	21.64	22
				256QAM	1	74	1	0	18.80	19
18803	1870.3	18974	1887.4	QPSK	1	74	1	0	23.70	24
				16QAM	1	74	1	0	22.72	23
				64QAM	1	74	1	0	21.70	22
				256QAM	1	74	1	0	18.76	19
18929	1882.9	19100	1900	QPSK	1	74	1	0	23.60	24
				16QAM	1	74	1	0	22.74	23
				64QAM	1	74	1	0	21.80	22
				256QAM	1	74	1	0	18.80	19

Combination 20MHz+15MHz (100RB+75RB)										
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)	Max Tune-up (dBm)
					RB Size	RB offset	RB Size	RB offset		
18700	1860	18871	1877.1	QPSK	1	99	1	0	23.79	24
				16QAM	1	99	1	0	22.72	23
				64QAM	1	99	1	0	21.70	22
				256QAM	1	99	1	0	18.69	19
18826	1872.6	18997	1889.7	QPSK	1	99	1	0	23.76	24
				16QAM	1	99	1	0	22.77	23
				64QAM	1	99	1	0	21.60	22
				256QAM	1	99	1	0	18.84	19
18951	1885.1	19122	1902.2	QPSK	1	99	1	0	23.56	24
				16QAM	1	99	1	0	22.81	23
				64QAM	1	99	1	0	21.73	22
				256QAM	1	99	1	0	18.69	19



Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	PCC Frequency	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)	Max Tune-up (dBm)
					RB Size	RB offset	RB Size	RB offset		
18700	1860	18898	1879.8	QPSK	1	99	1	0	23.81	24
				16QAM	1	99	1	0	22.82	23
				64QAM	1	99	1	0	21.71	22
				256QAM	1	99	1	0	18.84	19
18801	1870.1	18999	1889.9	QPSK	1	99	1	0	23.83	24
				16QAM	1	99	1	0	22.84	23
				64QAM	1	99	1	0	21.75	22
				256QAM	1	99	1	0	18.89	19
18902	1880.2	19100	1900	QPSK	1	99	1	0	23.69	24
				16QAM	1	99	1	0	22.87	23
				64QAM	1	99	1	0	21.84	22
				256QAM	1	99	1	0	18.81	19



EIRP POWER (dBm)

LTE BAND 2						
1.4MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	23.68	1.34	25.02	317.69	2
18900	1880.0	23.72	1.34	25.06	320.63	2
19193	1909.3	23.25	1.34	24.59	287.74	2

1.4MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	22.70	1.34	24.04	253.51	2
18900	1880.0	22.60	1.34	23.94	247.74	2
19193	1909.3	22.33	1.34	23.67	232.81	2

1.4MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	21.59	1.34	22.93	196.34	2
18900	1880	21.60	1.34	22.94	196.79	2
19193	1909.3	21.31	1.34	22.65	184.08	2

1.4MHz 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	18.81	1.34	20.15	103.51	2
18900	1880	18.88	1.34	20.22	105.20	2
19193	1909.3	18.36	1.34	19.70	93.33	2

3MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	23.62	1.34	24.96	313.33	2
18900	1880	23.66	1.34	25.00	316.23	2
19185	1908.5	23.25	1.34	24.59	287.74	2

3MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	22.72	1.34	24.06	254.68	2
18900	1880	22.54	1.34	23.88	244.34	2
19185	1908.5	22.42	1.34	23.76	237.68	2



3MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	21.62	1.34	22.96	197.70	2
18900	1880	21.68	1.34	23.02	200.45	2
19185	1908.5	21.27	1.34	22.61	182.39	2

3MHz 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	18.80	1.34	20.14	103.28	2
18900	1880	18.82	1.34	20.16	103.75	2
19185	1908.5	18.45	1.34	19.79	95.28	2

5MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	23.60	1.34	24.94	311.89	2
18900	1880	23.61	1.34	24.95	312.61	2
19175	1907.5	23.31	1.34	24.65	291.74	2

5MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	22.75	1.34	24.09	256.45	2
18900	1880	22.64	1.34	23.98	250.03	2
19175	1907.5	22.37	1.34	23.71	234.96	2

5MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	21.64	1.34	22.98	198.61	2
18900	1880	21.69	1.34	23.03	200.91	2
19175	1907.5	21.26	1.34	22.60	181.97	2

5MHz 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	18.76	1.34	20.10	102.33	2
18900	1880	18.79	1.34	20.13	103.04	2
19175	1907.5	18.46	1.34	19.80	95.50	2



10MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855	23.60	1.34	24.94	311.89	2
18900	1880	23.23	1.34	24.57	286.42	2
19150	1905	23.52	1.34	24.86	306.20	2

10MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855	22.55	1.34	23.89	244.91	2
18900	1880	22.42	1.34	23.76	237.68	2
19150	1905	22.79	1.34	24.13	258.82	2

10MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855	21.64	1.34	22.98	198.61	2
18900	1880	21.31	1.34	22.65	184.08	2
19150	1905	21.67	1.34	23.01	199.99	2

10MHz 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855	18.87	1.34	20.21	104.95	2
18900	1880	18.36	1.34	19.70	93.33	2
19150	1905	18.78	1.34	20.12	102.80	2

15MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	23.63	1.34	24.97	314.05	2
18900	1880	23.68	1.34	25.02	317.69	2
19125	1902.5	23.31	1.34	24.65	291.74	2

15MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	22.65	1.34	23.99	250.61	2
18900	1880	22.56	1.34	23.90	245.47	2
19125	1902.5	22.42	1.34	23.76	237.68	2



15MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	21.59	1.34	22.93	196.34	2
18900	1880	21.63	1.34	22.97	198.15	2
19125	1902.5	21.35	1.34	22.69	185.78	2

15MHz 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	18.83	1.34	20.17	103.99	2
18900	1880	18.89	1.34	20.23	105.44	2
19125	1902.5	18.46	1.34	19.80	95.50	2

20MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	23.72	1.34	25.06	320.63	2
18900	1880	23.75	1.34	25.09	322.85	2
19100	1900	23.48	1.34	24.82	303.39	2

20MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	22.74	1.34	24.08	255.86	2
18900	1880	22.72	1.34	24.06	254.68	2
19100	1900	22.55	1.34	23.89	244.91	2

20MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	21.76	1.34	23.10	204.27	2
18900	1880	21.77	1.34	23.11	204.64	2
19100	1900	21.47	1.34	22.81	190.99	2

20MHz 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18.94	1.34	20.28	106.66	2
18900	1880	18.92	1.34	20.26	106.17	2
19100	1900	18.56	1.34	19.90	97.72	2



LTE BAND 25						
1.4MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	23.76	1.34	25.10	323.59	2
26340	1880	23.55	1.34	24.89	308.32	2
26683	1914.3	23.33	1.34	24.67	293.09	2

1.4MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	22.80	1.34	24.14	259.42	2
26340	1880	22.80	1.34	24.14	259.42	2
26683	1914.3	22.67	1.34	24.01	251.77	2

1.4MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	21.87	1.34	23.21	209.41	2
26340	1880	21.83	1.34	23.17	207.49	2
26683	1914.3	21.73	1.34	23.07	202.77	2

1.4MHz 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	18.82	1.34	20.16	103.75	2
26340	1880	18.82	1.34	20.16	103.75	2
26683	1914.3	18.82	1.34	20.16	103.75	2

3MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	23.77	1.34	25.11	324.34	2
26340	1880	23.56	1.34	24.90	309.03	2
26675	1913.5	23.36	1.34	24.70	295.12	2

3MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	22.85	1.34	24.19	262.42	2
26340	1880	22.72	1.34	24.06	254.68	2
26675	1913.5	22.68	1.34	24.02	252.35	2



3MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	21.86	1.34	23.20	208.93	2
26340	1880	21.85	1.34	23.19	208.45	2
26675	1913.5	21.75	1.34	23.09	203.70	2

3MHz 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	18.83	1.34	20.17	103.99	2
26340	1880	18.80	1.34	20.14	103.28	2
26675	1913.5	18.82	1.34	20.16	103.75	2

5MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	23.72	1.34	25.06	320.63	2
26340	1880	23.55	1.34	24.89	308.32	2
26665	1912.5	23.36	1.34	24.70	295.12	2

5MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	22.84	1.34	24.18	261.82	2
26340	1880	22.78	1.34	24.12	258.23	2
26665	1912.5	22.72	1.34	24.06	254.68	2

5MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	21.87	1.34	23.21	209.41	2
26340	1880	21.79	1.34	23.13	205.59	2
26665	1912.5	21.71	1.34	23.05	201.84	2

5MHz 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	18.84	1.34	20.18	104.23	2
26340	1880	18.88	1.34	20.22	105.20	2
26665	1912.5	18.84	1.34	20.18	104.23	2



10MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	23.70	1.34	25.04	319.15	2
26340	1880	23.64	1.34	24.98	314.77	2
26640	1910	23.31	1.34	24.65	291.74	2

10MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	22.76	1.34	24.10	257.04	2
26340	1880	22.74	1.34	24.08	255.86	2
26640	1910	22.62	1.34	23.96	248.89	2

10MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	21.75	1.34	23.09	203.70	2
26340	1880	21.80	1.34	23.14	206.06	2
26640	1910	21.80	1.34	23.14	206.06	2

10MHz 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	18.81	1.34	20.15	103.51	2
26340	1880	18.74	1.34	20.08	101.86	2
26640	1910	18.82	1.34	20.16	103.75	2

15MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	23.76	1.34	25.10	323.59	2
26340	1880	23.55	1.34	24.89	308.32	2
26615	1907.5	23.30	1.34	24.64	291.07	2

15MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	22.79	1.34	24.13	258.82	2
26340	1880	22.80	1.34	24.14	259.42	2
26615	1907.5	22.68	1.34	24.02	252.35	2



15MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	21.79	1.34	23.13	205.59	2
26340	1880	21.84	1.34	23.18	207.97	2
26615	1907.5	21.75	1.34	23.09	203.70	2

15MHz 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	18.84	1.34	20.18	104.23	2
26340	1880	18.85	1.34	20.19	104.47	2
26615	1907.5	18.88	1.34	20.22	105.20	2

20MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	23.78	1.34	25.12	325.09	2
26340	1880	23.66	1.34	25.00	316.23	2
26590	1905	23.41	1.34	24.75	298.54	2

20MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	22.89	1.34	24.23	264.85	2
26340	1880	22.82	1.34	24.16	260.62	2
26590	1905	22.76	1.34	24.10	257.04	2

20MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	21.89	1.34	23.23	210.38	2
26340	1880	21.86	1.34	23.20	208.93	2
26590	1905	21.85	1.34	23.19	208.45	2

20MHz 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	18.87	1.34	20.21	104.95	2
26340	1880	18.89	1.34	20.23	105.44	2
26590	1905	18.89	1.34	20.23	105.44	2



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Test Report No.: PSU-QSU2411180418RF03

Combination 5MHz+20MHz (25RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18633	1853.3	18750	1865	QPSK	23.66	1.34	25.00	316.23	2
				16QAM	22.74	1.34	24.08	255.86	2
				64QAM	21.68	1.34	23.02	200.45	2
				256QAM	18.71	1.34	20.05	101.16	2
18808	1870.8	18925	1882.5	QPSK	23.80	1.34	25.14	326.59	2
				16QAM	22.69	1.34	24.03	252.93	2
				64QAM	21.62	1.34	22.96	197.70	2
				256QAM	18.86	1.34	20.20	104.71	2
18983	1888.3	19100	1900	QPSK	23.56	1.34	24.90	309.03	2
				16QAM	22.74	1.34	24.08	255.86	2
				64QAM	21.79	1.34	23.13	205.59	2
				256QAM	18.69	1.34	20.03	100.69	2

Combination 20MHz+5MHz (100RB+25RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18817	1871.7	QPSK	23.78	1.34	25.12	325.09	2
				16QAM	22.77	1.34	24.11	257.63	2
				64QAM	21.65	1.34	22.99	199.07	2
				256QAM	18.83	1.34	20.17	103.99	2
18875	1877.5	18992	1889.2	QPSK	23.71	1.34	25.05	319.89	2
				16QAM	22.73	1.34	24.07	255.27	2
				64QAM	21.63	1.34	22.97	198.15	2
				256QAM	18.83	1.34	20.17	103.99	2
19050	1895	19167	1906.7	QPSK	23.54	1.34	24.88	307.61	2
				16QAM	22.73	1.34	24.07	255.27	2
				64QAM	21.75	1.34	23.09	203.70	2
				256QAM	18.75	1.34	20.09	102.09	2

Combination 10MHz+15MHz (50RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18653	1855.3	18773	1867.3	QPSK	23.66	1.34	25.00	316.23	2
				16QAM	22.78	1.34	24.12	258.23	2
				64QAM	21.61	1.34	22.95	197.24	2
				256QAM	18.72	1.34	20.06	101.39	2
18829	1872.9	18949	1884.9	QPSK	23.77	1.34	25.11	324.34	2
				16QAM	22.79	1.34	24.13	258.82	2
				64QAM	21.70	1.34	23.04	201.37	2
				256QAM	18.84	1.34	20.18	104.23	2
19005	1890.5	19125	1902.5	QPSK	23.55	1.34	24.89	308.32	2
				16QAM	22.78	1.34	24.12	258.23	2
				64QAM	21.79	1.34	23.13	205.59	2
				256QAM	18.68	1.34	20.02	100.46	2



Combination 15MHz+10MHz (75RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	18795	1869.5	QPSK	23.66	1.34	25.00	316.23	2
				16QAM	22.74	1.34	24.08	255.86	2
				64QAM	21.62	1.34	22.96	197.70	2
				256QAM	18.80	1.34	20.14	103.28	2
18851	1875.1	18971	1887.1	QPSK	23.70	1.34	25.04	319.15	2
				16QAM	22.80	1.34	24.14	259.42	2
				64QAM	21.65	1.34	22.99	199.07	2
				256QAM	18.86	1.34	20.20	104.71	2
19027	1892.7	19147	1904.7	QPSK	23.58	1.34	24.92	310.46	2
				16QAM	22.79	1.34	24.13	258.82	2
				64QAM	21.71	1.34	23.05	201.84	2
				256QAM	18.78	1.34	20.12	102.80	2

Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	18825	1872.5	QPSK	23.72	1.34	25.06	320.63	2
				16QAM	22.78	1.34	24.12	258.23	2
				64QAM	21.70	1.34	23.04	201.37	2
				256QAM	18.82	1.34	20.16	103.75	2
18825	1872.5	18975	1887.5	QPSK	23.80	1.34	25.14	326.59	2
				16QAM	22.83	1.34	24.17	261.22	2
				64QAM	21.68	1.34	23.02	200.45	2
				256QAM	18.78	1.34	20.12	102.80	2
18975	1887.5	19125	1902.5	QPSK	23.66	1.34	25.00	316.23	2
				16QAM	22.74	1.34	24.08	255.86	2
				64QAM	21.80	1.34	23.14	206.06	2
				256QAM	18.78	1.34	20.12	102.80	2

Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18655	1855.5	18799	1869.9	QPSK	23.73	1.34	25.07	321.37	2
				16QAM	22.72	1.34	24.06	254.68	2
				64QAM	21.70	1.34	23.04	201.37	2
				256QAM	18.82	1.34	20.16	103.75	2
18806	1870.6	18950	1885	QPSK	23.81	1.34	25.15	327.34	2
				16QAM	22.83	1.34	24.17	261.22	2
				64QAM	21.62	1.34	22.96	197.70	2
				256QAM	18.83	1.34	20.17	103.99	2
18956	1885.6	19100	1900	QPSK	23.67	1.34	25.01	316.96	2
				16QAM	22.84	1.34	24.18	261.82	2
				64QAM	21.79	1.34	23.13	205.59	2
				256QAM	18.72	1.34	20.06	101.39	2



Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18844	1874.4	QPSK	23.80	1.34	25.14	326.59	2
				16QAM	22.80	1.34	24.14	259.42	2
				64QAM	21.59	1.34	22.93	196.34	2
				256QAM	18.83	1.34	20.17	103.99	2
18851	1875.1	18995	1889.5	QPSK	23.71	1.34	25.05	319.89	2
				16QAM	22.81	1.34	24.15	260.02	2
				64QAM	21.61	1.34	22.95	197.24	2
				256QAM	18.74	1.34	20.08	101.86	2
19001	1890.1	19145	1904.5	QPSK	23.63	1.34	24.97	314.05	2
				16QAM	22.82	1.34	24.16	260.62	2
				64QAM	21.69	1.34	23.03	200.91	2
				256QAM	18.76	1.34	20.10	102.33	2

Combination 15MHz+20MHz (75RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18678	1857.8	18849	1874.9	QPSK	23.74	1.34	25.08	322.11	2
				16QAM	22.71	1.34	24.05	254.10	2
				64QAM	21.64	1.34	22.98	198.61	2
				256QAM	18.80	1.34	20.14	103.28	2
18803	1870.3	18974	1887.4	QPSK	23.70	1.34	25.04	319.15	2
				16QAM	22.72	1.34	24.06	254.68	2
				64QAM	21.70	1.34	23.04	201.37	2
				256QAM	18.76	1.34	20.10	102.33	2
18929	1882.9	19100	1900	QPSK	23.60	1.34	24.94	311.89	2
				16QAM	22.74	1.34	24.08	255.86	2
				64QAM	21.80	1.34	23.14	206.06	2
				256QAM	18.80	1.34	20.14	103.28	2

Combination 20MHz+15MHz (100RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18871	1877.1	QPSK	23.79	1.34	25.13	325.84	2
				16QAM	22.72	1.34	24.06	254.68	2
				64QAM	21.70	1.34	23.04	201.37	2
				256QAM	18.69	1.34	20.03	100.69	2
18826	1872.6	18997	1889.7	QPSK	23.76	1.34	25.10	323.59	2
				16QAM	22.77	1.34	24.11	257.63	2
				64QAM	21.60	1.34	22.94	196.79	2
				256QAM	18.84	1.34	20.18	104.23	2
18951	1885.1	19122	1902.2	QPSK	23.56	1.34	24.90	309.03	2
				16QAM	22.81	1.34	24.15	260.02	2
				64QAM	21.73	1.34	23.07	202.77	2
				256QAM	18.69	1.34	20.03	100.69	2



Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	18898	1879.8	QPSK	23.81	1.34	25.15	327.34	2
				16QAM	22.82	1.34	24.16	260.62	2
				64QAM	21.71	1.34	23.05	201.84	2
				256QAM	18.84	1.34	20.18	104.23	2
18801	1870.1	18999	1889.9	QPSK	23.83	1.34	25.17	328.85	2
				16QAM	22.84	1.34	24.18	261.82	2
				64QAM	21.75	1.34	23.09	203.70	2
				256QAM	18.89	1.34	20.23	105.44	2
18902	1880.2	19100	1900	QPSK	23.69	1.34	25.03	318.42	2
				16QAM	22.87	1.34	24.21	263.63	2
				64QAM	21.84	1.34	23.18	207.97	2
				256QAM	18.81	1.34	20.15	103.51	2

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



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

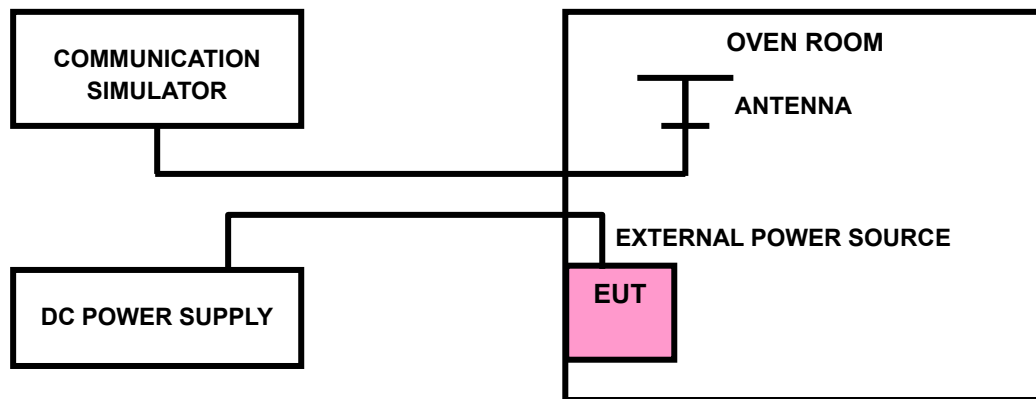
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.2.2 TEST PROCEDURE

- 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

Please Refer to Appendix of this test report.

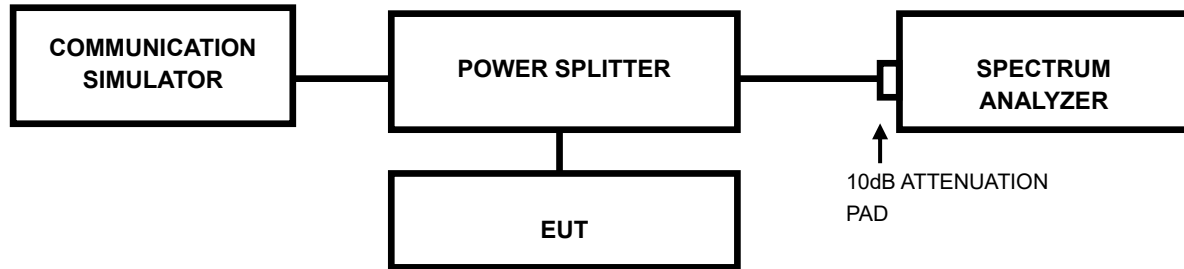


3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

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

3.3.4 TEST RESULTS

Please Refer to Appendix of this test report.

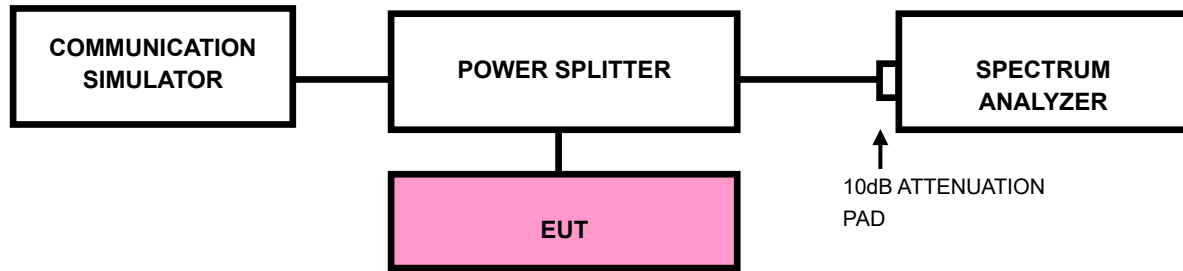


3.4 BAND EDGE MEASUREMENTC

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

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

3.4.2 TEST SETUP





3.4.3 TEST PROCEDURES

- a) All measurements were done at low and high operational frequency range
- b) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- c) Tune the analyzer to the nominal center frequency of the emission bandwidth

(EBW)

- d) .Set the resolution bandwidth (RBW) $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- f) Set the video bandwidth (VBW) to $\geq 3 \times$ RBW.
- g) Select the average power (RMS) display detector.
- h) Set the number of measurement points to ≥ 1001 .
- i) Use auto-coupled sweep time.
- j) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- k) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- l) Record the max trace plot into the test report.

3.4.4 TEST RESULTS

Please Refer to Appendix of this test report.



3.5 CONDUCTED SPURIOUS EMISSIONS

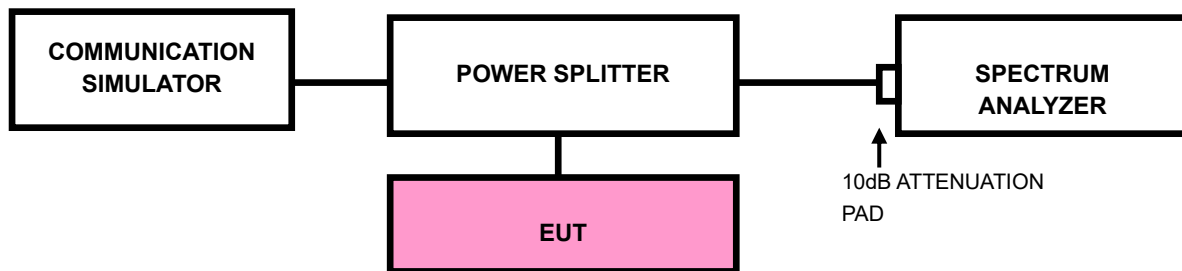
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

3.5.2 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 30MHz up to a frequency including its 10th harmonic. 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

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

Please Refer to Appendix of this test report.



3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value “ of step a. Record the power level of S.G
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

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

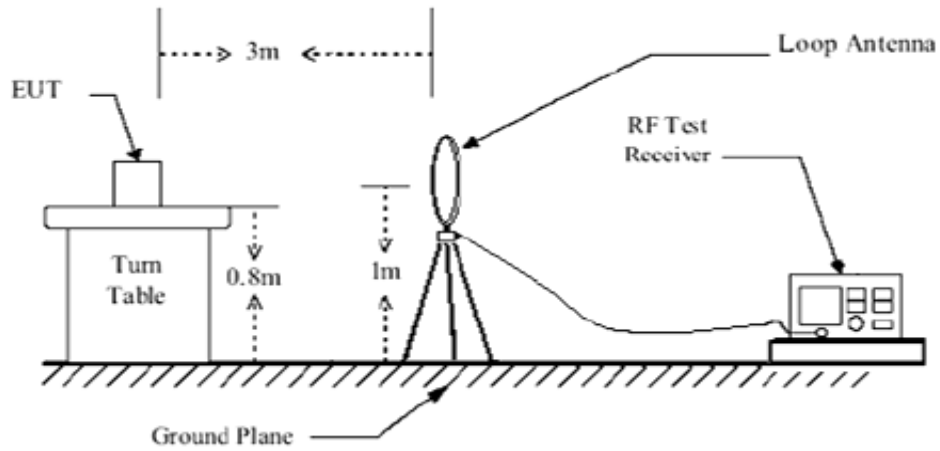
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

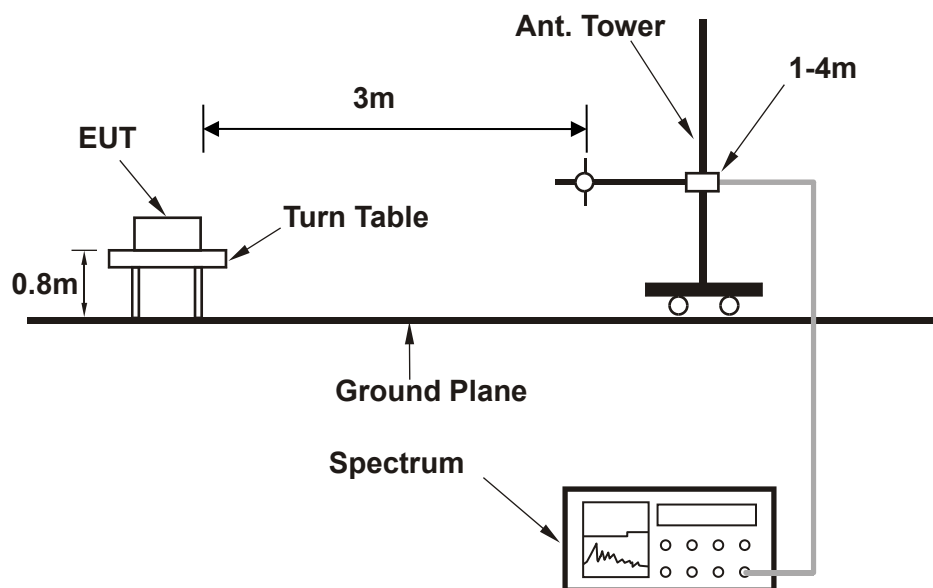


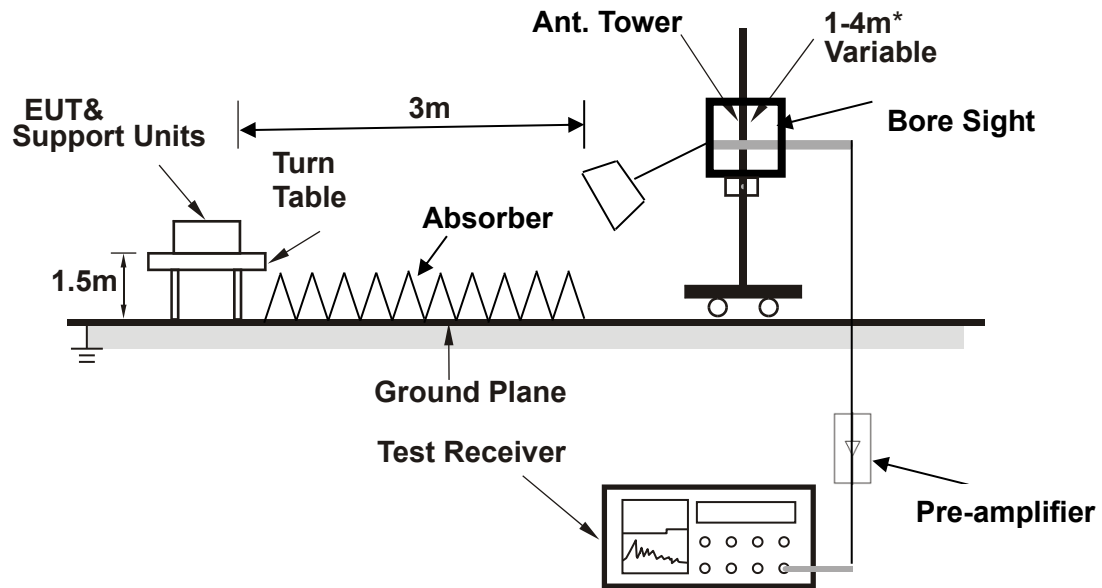
3.6.4 TEST SETUP

< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >





Note: Above 1G is a directional antenna

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

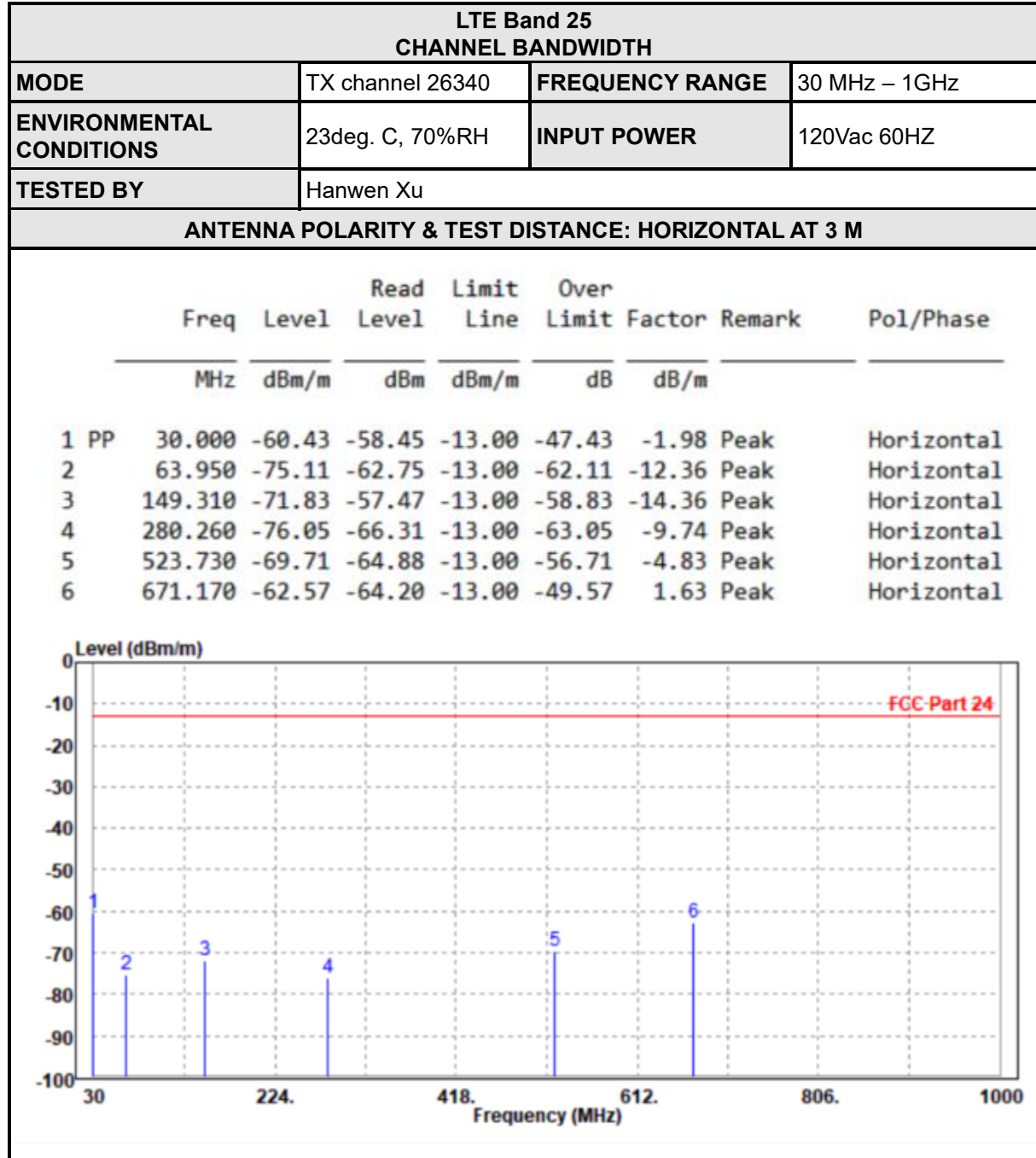
For the actual test configuration, please refer to the attached file (Test Setup Photo).



3.6.5 TEST RESULTS

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

BELOW 1GHz WORST-CASE DATA

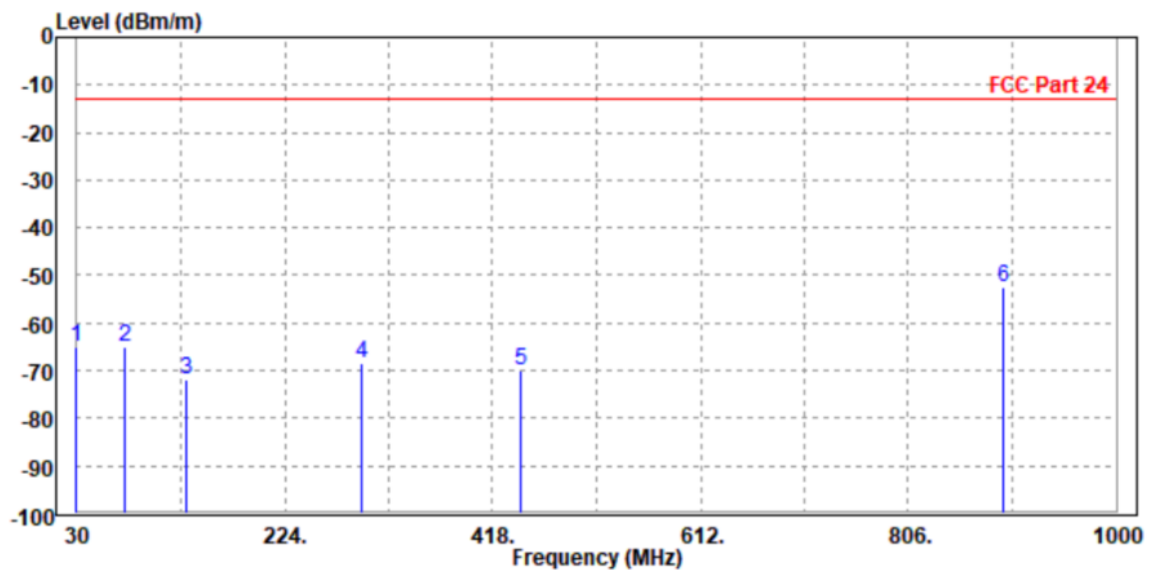




MODE	TX channel 26340	FREQUENCY RANGE	30 MHz – 1GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

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	30.000	-64.84	-43.14	-13.00	-51.84	-21.70	Peak	Vertical
2	74.620	-65.21	-45.38	-13.00	-52.21	-19.83	Peak	Vertical
3	132.820	-71.73	-55.16	-13.00	-58.73	-16.57	Peak	Vertical
4	295.780	-68.52	-65.08	-13.00	-55.52	-3.44	Peak	Vertical
5	444.190	-69.96	-65.33	-13.00	-56.96	-4.63	Peak	Vertical
6 PP	894.270	-52.34	-64.06	-13.00	-39.34	11.72	Peak	Vertical





ABOVE 1GHz DATA

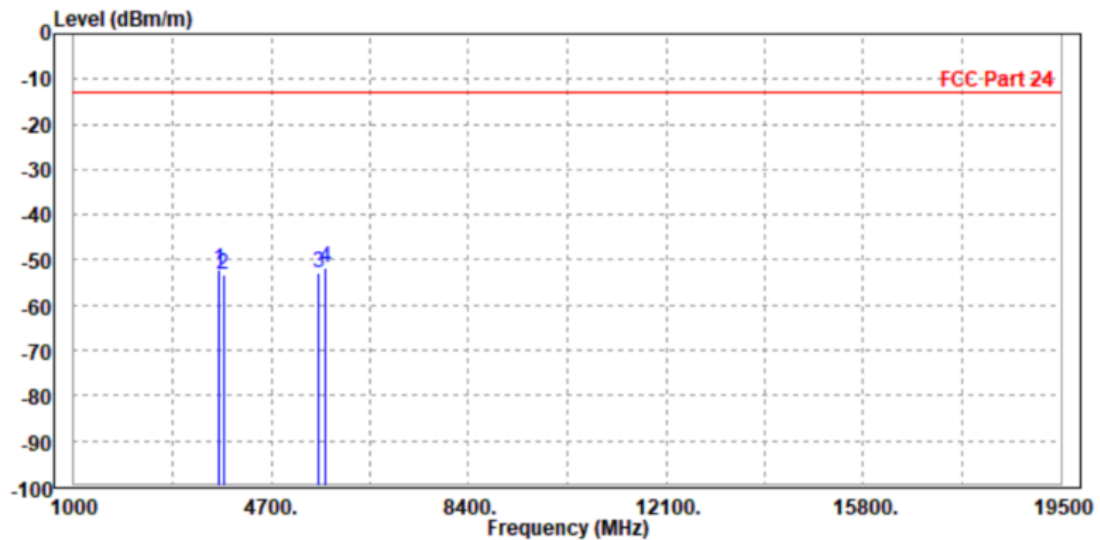
Note: For higher frequency, the emission is too low to be detected.

CA-2C

MODE	TX channel 18801	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

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	3719.500	-52.23	-60.61	-13.00	-39.23	8.38	Peak	Horizontal
2	3800.000	-53.13	-61.45	-13.00	-40.13	8.32	Peak	Horizontal
3	5580.000	-52.70	-64.51	-13.00	-39.70	11.81	Peak	Horizontal
4 PP	5700.000	-51.83	-63.65	-13.00	-38.83	11.82	Peak	Horizontal

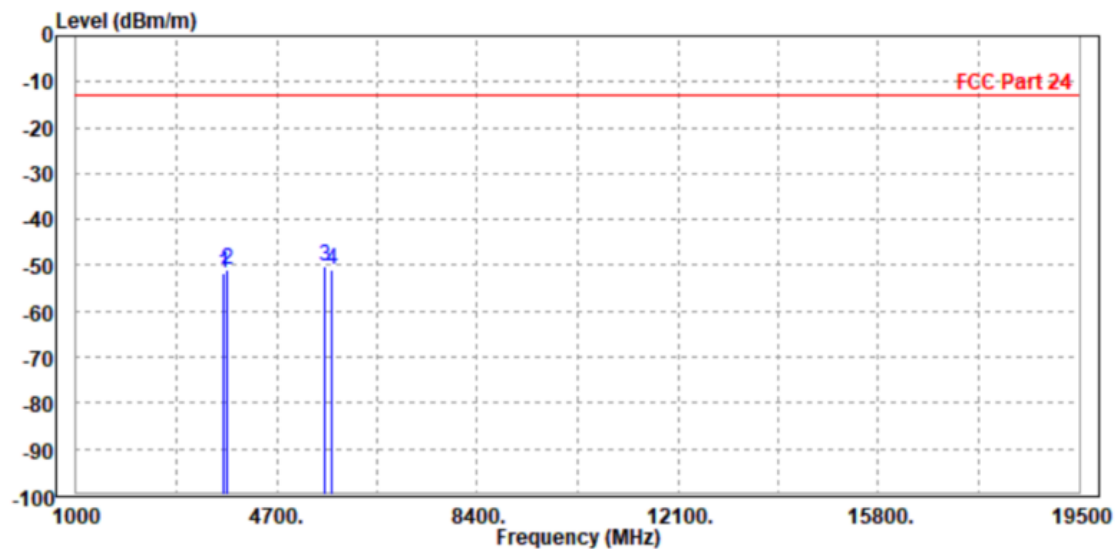




MODE	TX channel 18801	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

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	3720.000	-51.82	-60.45	-13.00	-38.82	8.63	Peak	Vertical
2	3793.500	-51.11	-59.74	-13.00	-38.11	8.63	Peak	Vertical
3 PP	5580.000	-50.30	-62.63	-13.00	-37.30	12.33	Peak	Vertical
4	5700.000	-51.02	-63.34	-13.00	-38.02	12.32	Peak	Vertical

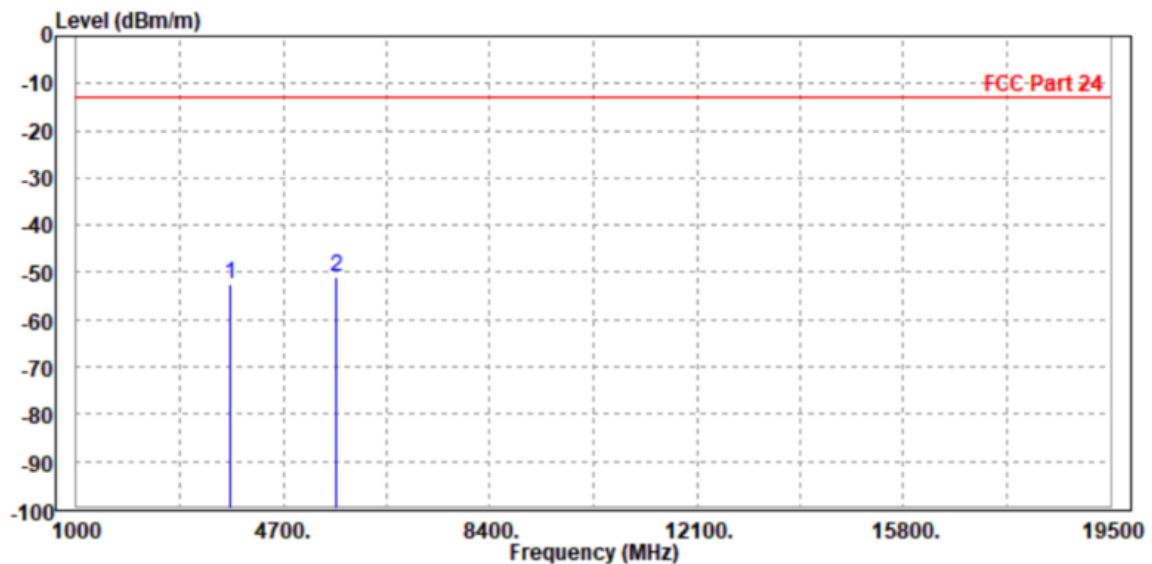




LTE Band 25			
CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3760.000	-52.66	-60.52	-13.00	-39.66	7.86	Peak	Horizontal
2 PP	5643.500	-51.06	-62.28	-13.00	-38.06	11.22	Peak	Horizontal

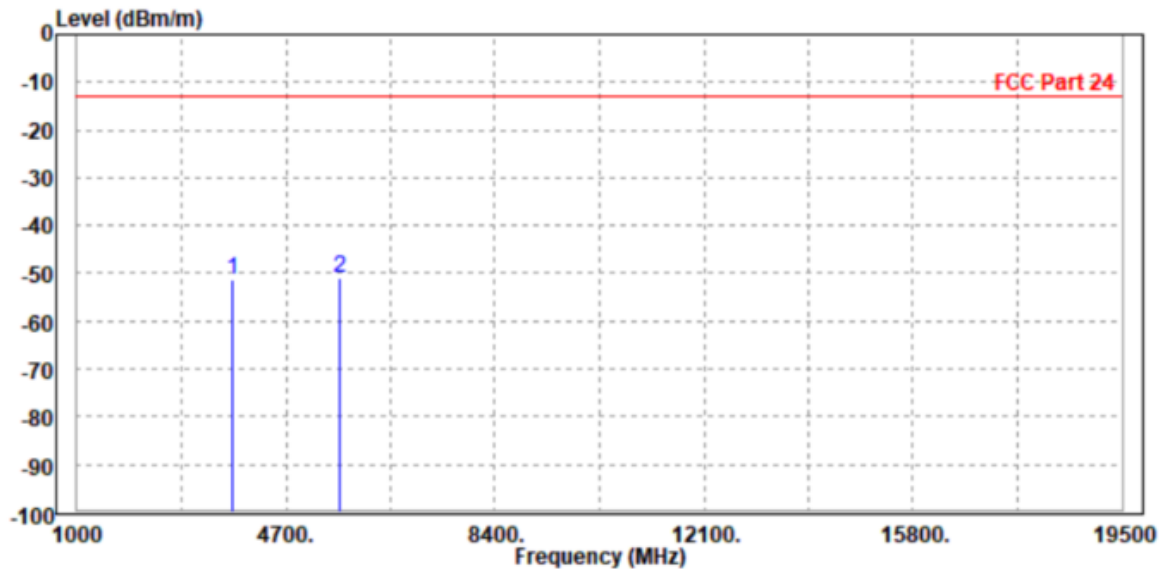




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.500	-51.36	-59.82	-13.00	-38.36	8.46	Peak	Vertical
2 PP	5640.000	-51.12	-62.51	-13.00	-38.12	11.39	Peak	Vertical



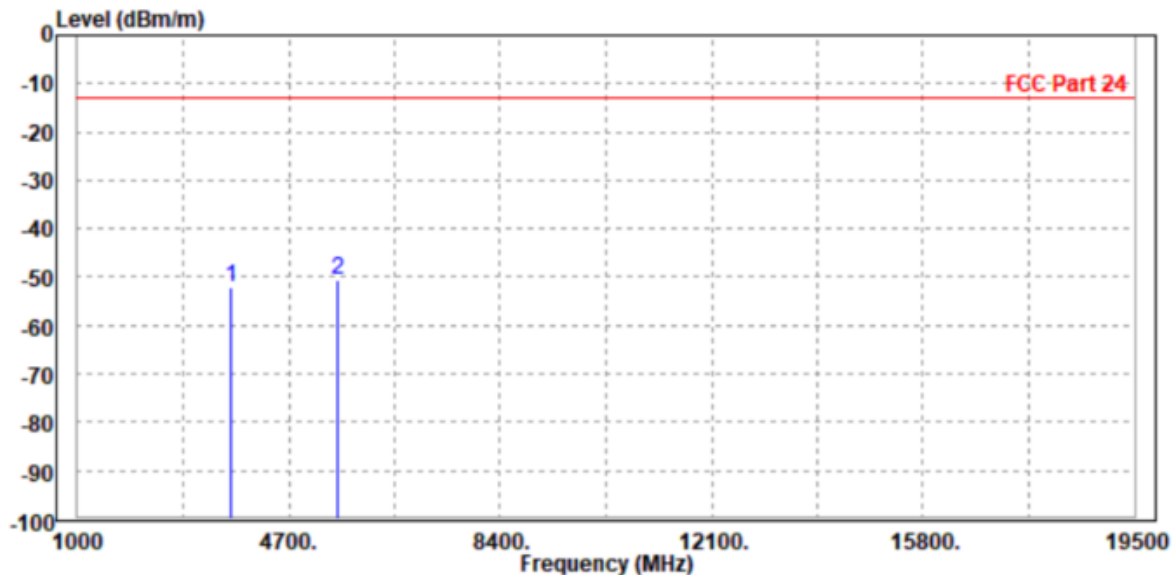


BUREAU VERITAS Test Report No.: PSU-QSU2411180418RF03

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26090
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3701.000	-52.21	-59.92	-13.00	-39.21	7.71	Peak	Horizontal
2 PP	5565.000	-50.51	-61.55	-13.00	-37.51	11.04	Peak	Horizontal



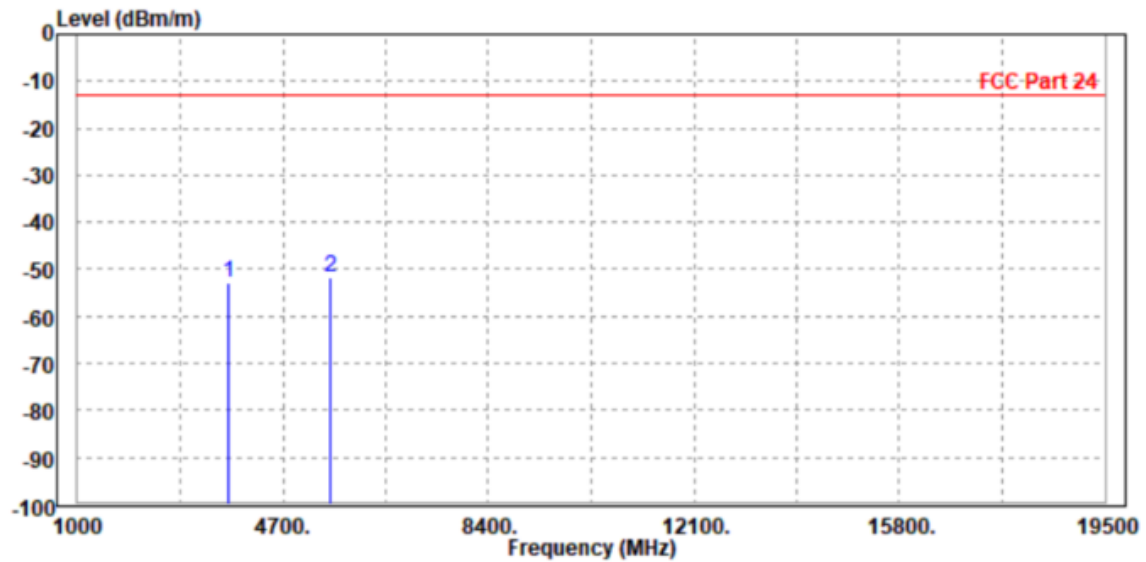


BUREAU VERITAS Test Report No.: PSU-QSU2411180418RF03

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26090
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3710.000	-52.87	-61.29	-13.00	-39.87	8.42	Peak	Vertical
2 PP	5565.000	-51.55	-62.75	-13.00	-38.55	11.20	Peak	Vertical

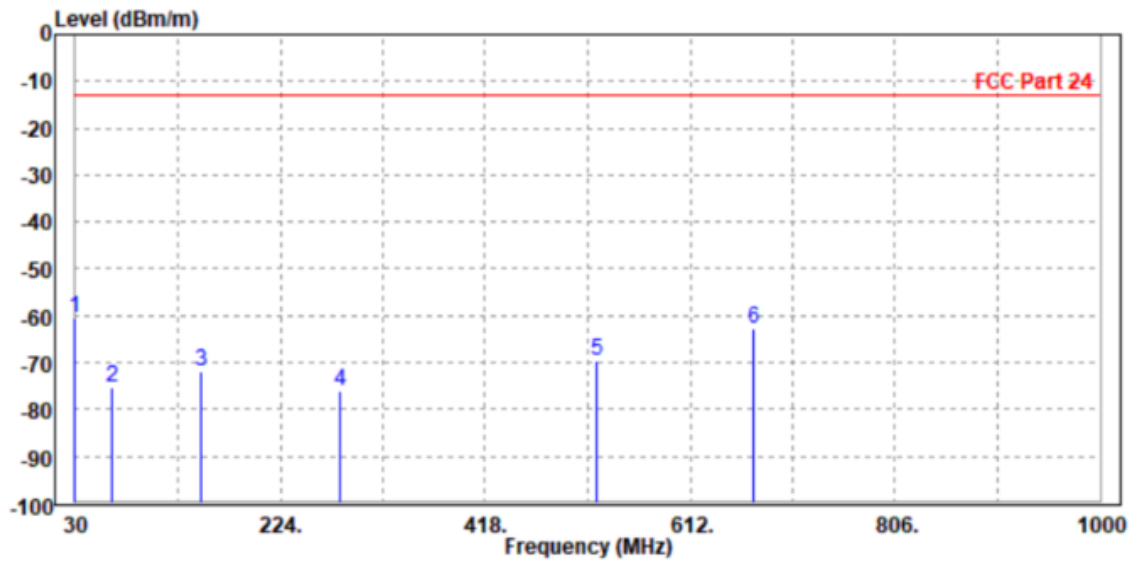




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	30.000	-60.43	-58.45	-13.00	-47.43	-1.98	Peak	Horizontal
2		63.950	-75.11	-62.75	-13.00	-62.11	-12.36	Peak	Horizontal
3		149.310	-71.83	-57.47	-13.00	-58.83	-14.36	Peak	Horizontal
4		280.260	-76.05	-66.31	-13.00	-63.05	-9.74	Peak	Horizontal
5		523.730	-69.71	-64.88	-13.00	-56.71	-4.83	Peak	Horizontal
6		671.170	-62.57	-64.20	-13.00	-49.57	1.63	Peak	Horizontal

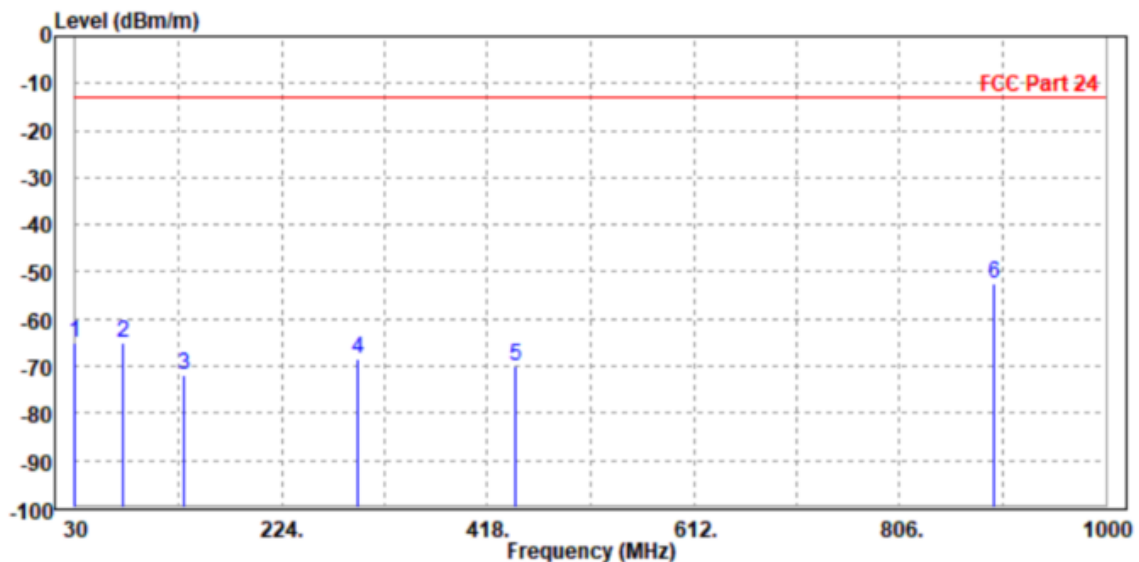




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	30.000	-64.84	-43.14	-13.00	-51.84	-21.70	Peak	Vertical
2	74.620	-65.21	-45.38	-13.00	-52.21	-19.83	Peak	Vertical
3	132.820	-71.73	-55.16	-13.00	-58.73	-16.57	Peak	Vertical
4	295.780	-68.52	-65.08	-13.00	-55.52	-3.44	Peak	Vertical
5	444.190	-69.96	-65.33	-13.00	-56.96	-4.63	Peak	Vertical
6 PP	894.270	-52.34	-64.06	-13.00	-39.34	11.72	Peak	Vertical



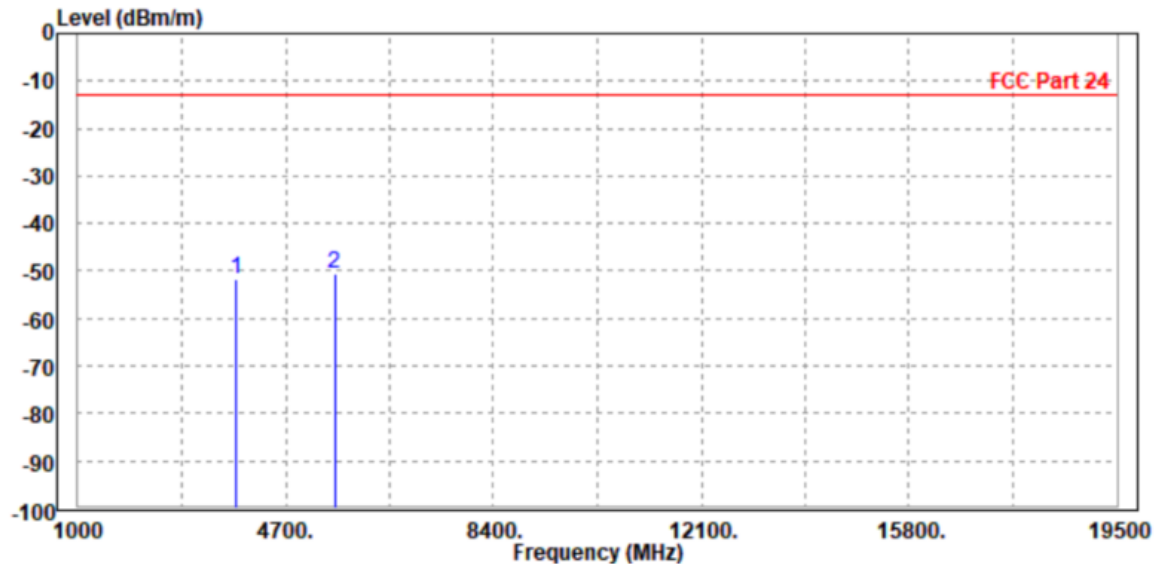


BUREAU VERITAS Test Report No.: PSU-QSU2411180418RF03

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26640
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3820.000	-51.84	-59.85	-13.00	-38.84	8.01	Peak	Horizontal
2 PP	5569.500	-50.58	-61.63	-13.00	-37.58	11.05	Peak	Horizontal

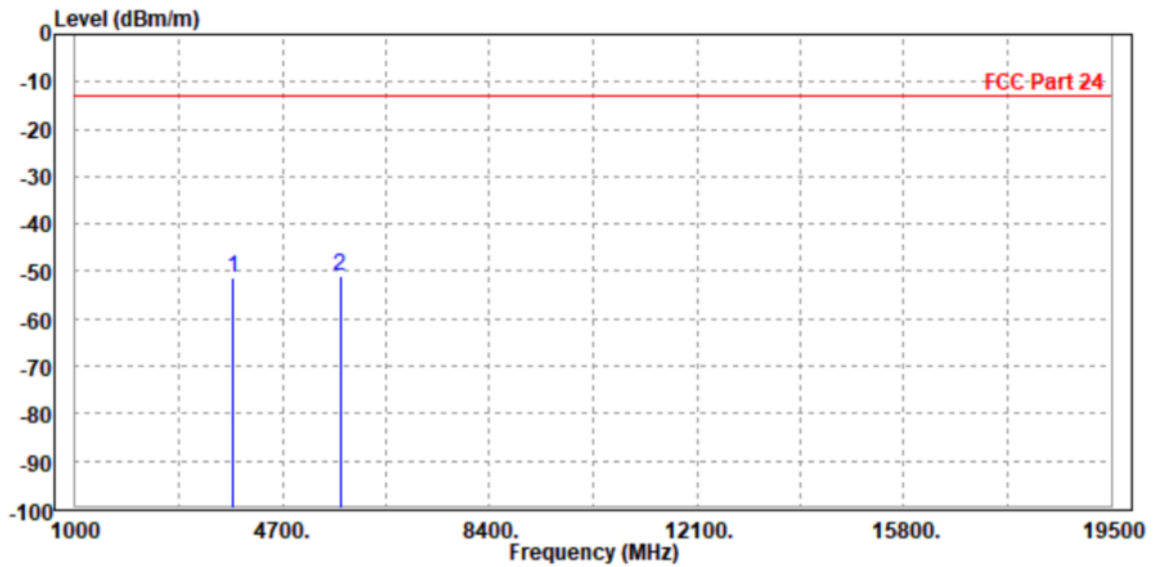




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26640
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	-51.15	-59.66	-13.00	-38.15	8.51	Peak	Vertical
2 PP	5730.000	-50.83	-62.45	-13.00	-37.83	11.62	Peak	Vertical

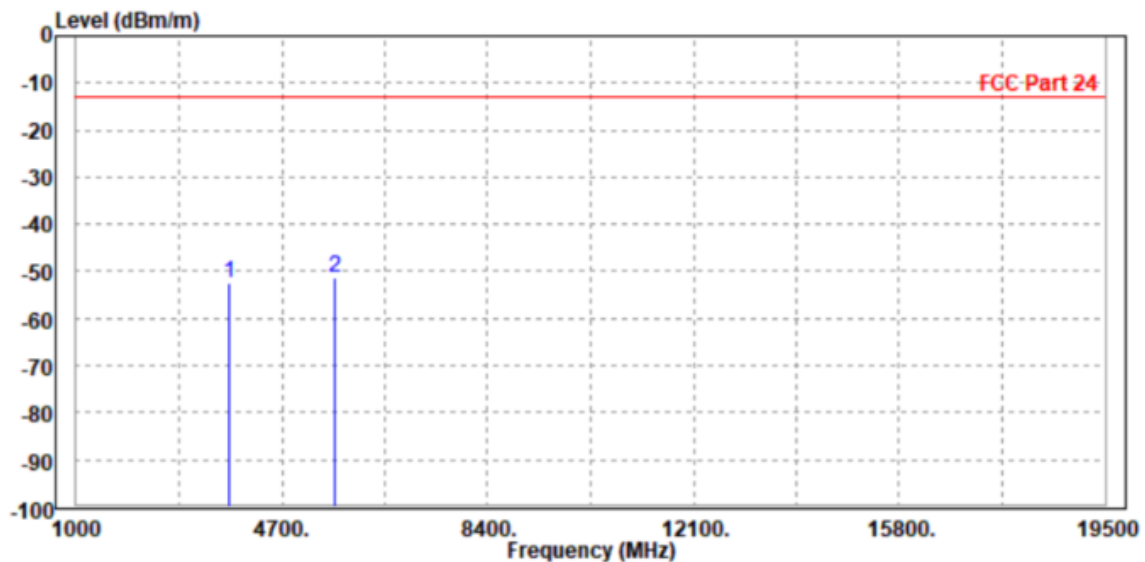




CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3756.500	-52.49	-60.34	-13.00	-39.49	7.85	Peak	Horizontal
2 PP	5640.000	-51.21	-62.42	-13.00	-38.21	11.21	Peak	Horizontal

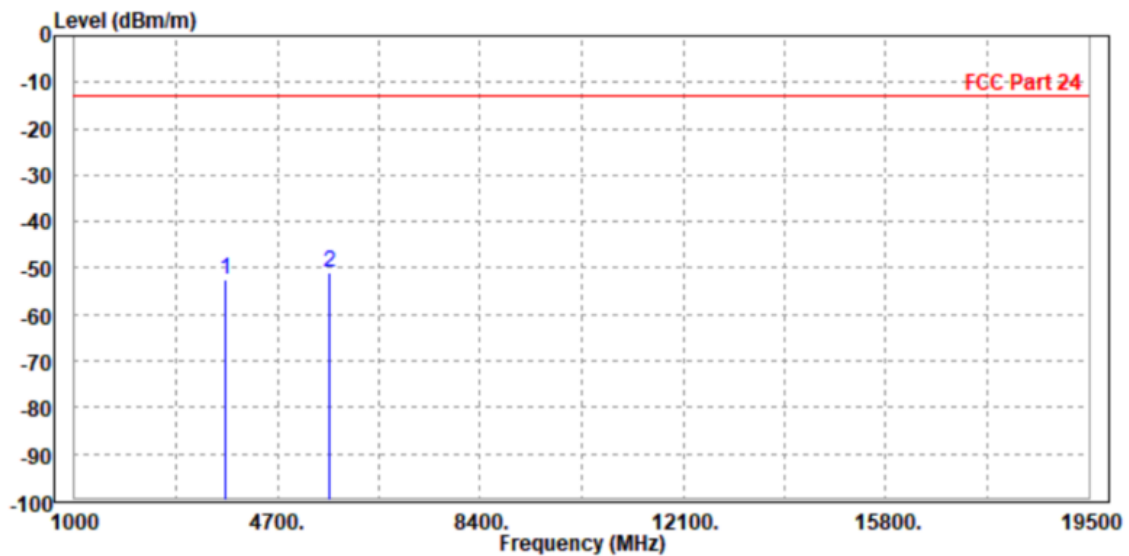




CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3760.000	-52.64	-61.10	-13.00	-39.64	8.46	Peak	Vertical
2 PP	5643.500	-50.96	-62.36	-13.00	-37.96	11.40	Peak	Vertical

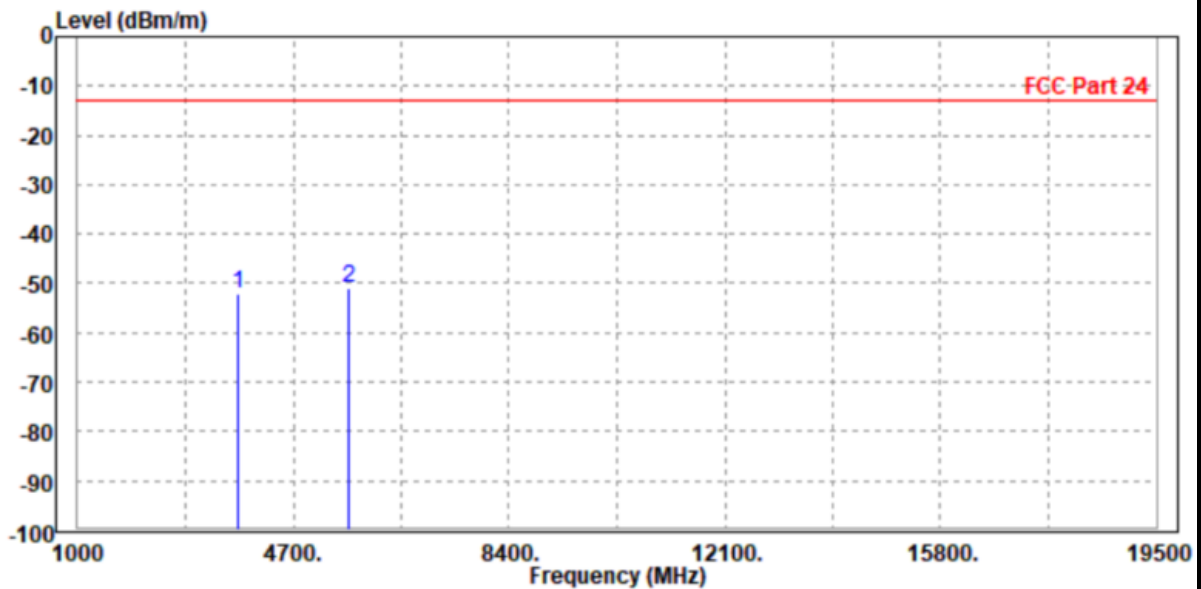




CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3760.000	-52.09	-59.95	-13.00	-39.09	7.86	Peak	Horizontal
2 PP	5643.500	-50.79	-62.01	-13.00	-37.79	11.22	Peak	Horizontal

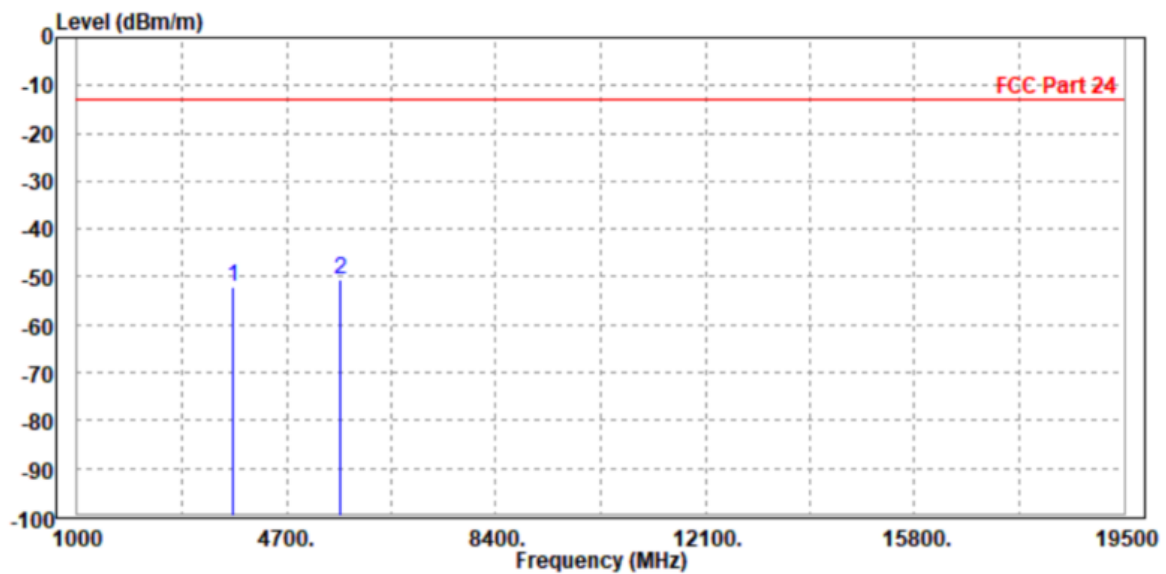




CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.500	-52.21	-60.67	-13.00	-39.21	8.46	Peak	Vertical
2 PP	5640.000	-50.48	-61.87	-13.00	-37.48	11.39	Peak	Vertical

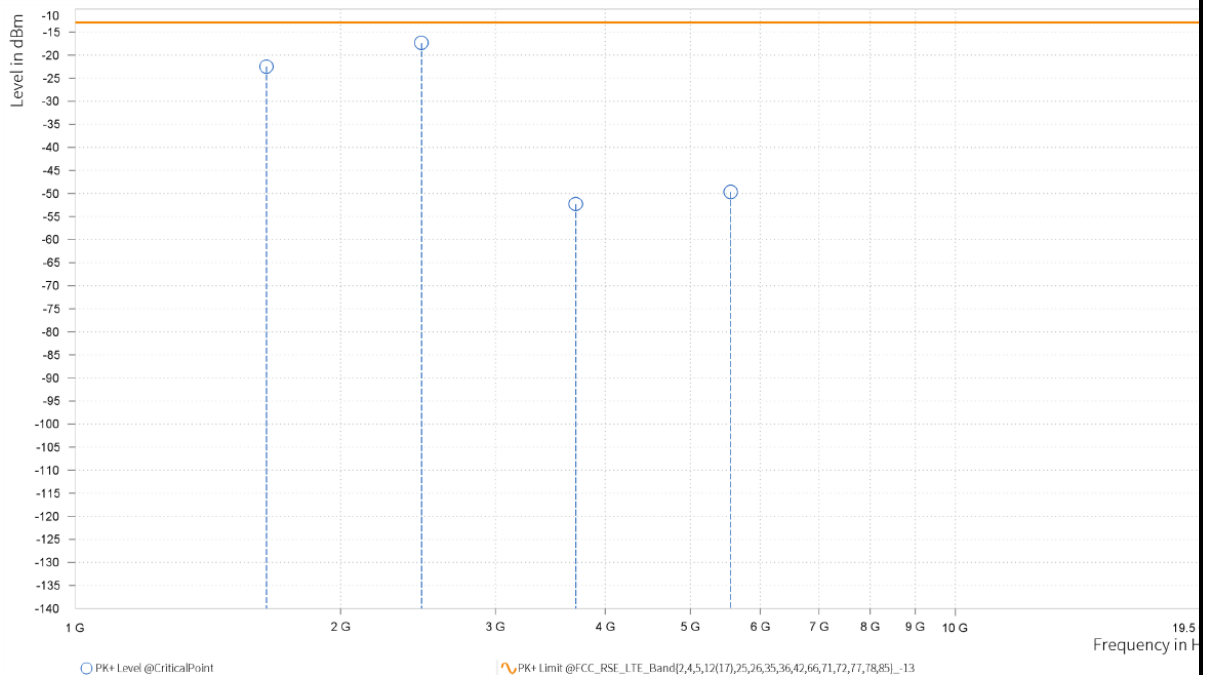




LTE Band CA_5A-25A			
CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26140
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,649.000	-22.49	-13.00	9.49	24.43	H	96.1	2.00
3	2,474.000	-17.37	-13.00	4.37	20.32	H	1	1.00
4	3,702.000	-52.29	-13.00	39.29	21.12	H	1	1.00
4	5,553.000	-49.68	-13.00	36.68	24.26	H	79.1	2.00

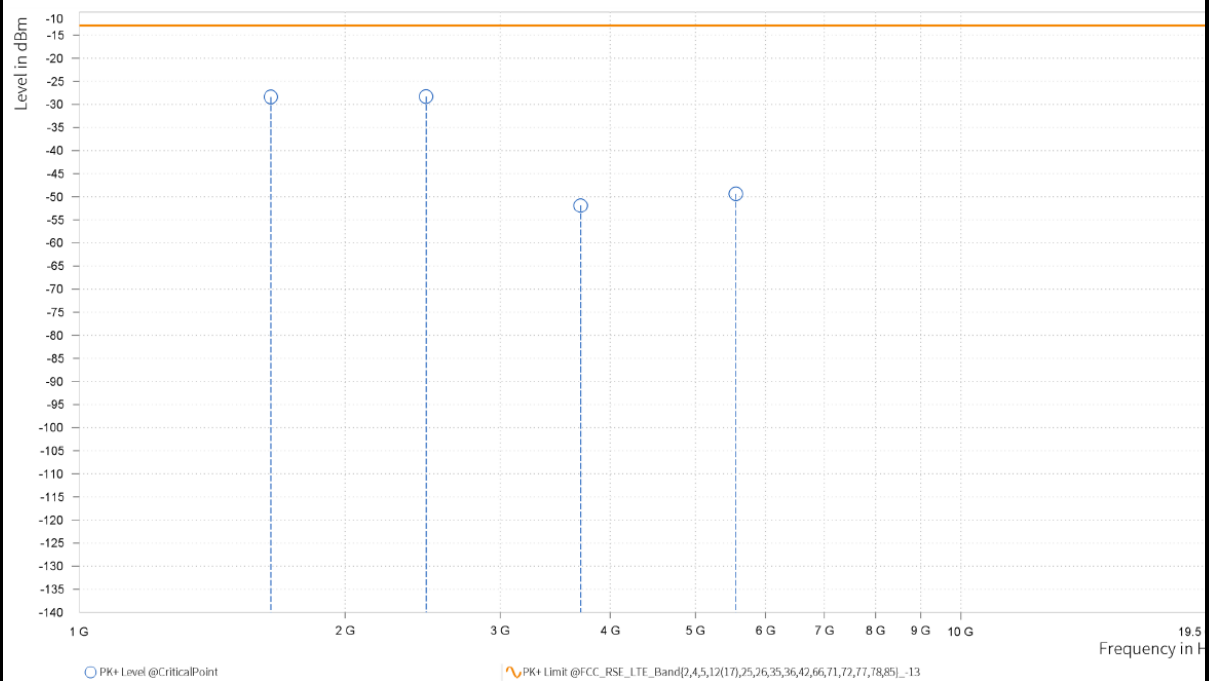




CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26140
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,649.000	-28.39	-13.00	15.39	23.98	V	81.3	2.00
3	2,474.000	-28.28	-13.00	15.28	20.57	V	1	1.00
4	3,702.000	-51.90	-13.00	38.90	21.72	V	205.8	1.00
4	5,553.000	-49.34	-13.00	36.34	24.96	V	3.7	2.00

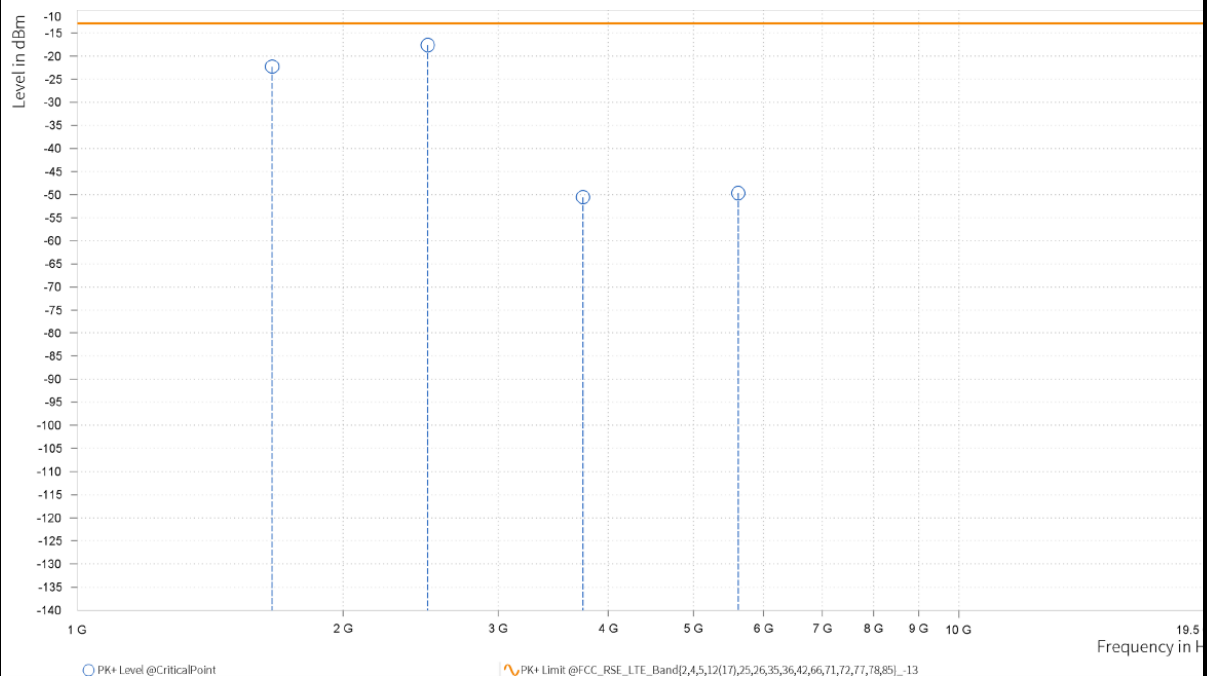


**Test Report No.: PSU-QSU2411180418RF03**

CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26340
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,664.000	-22.30	-13.00	9.30	24.99	H	101.8	2.00
3	2,496.500	-17.60	-13.00	4.60	20.75	H	1	1.00
4	3,747.000	-50.56	-13.00	37.56	21.39	H	22.5	2.00
4	5,620.500	-49.67	-13.00	36.67	24.66	H	359	2.00

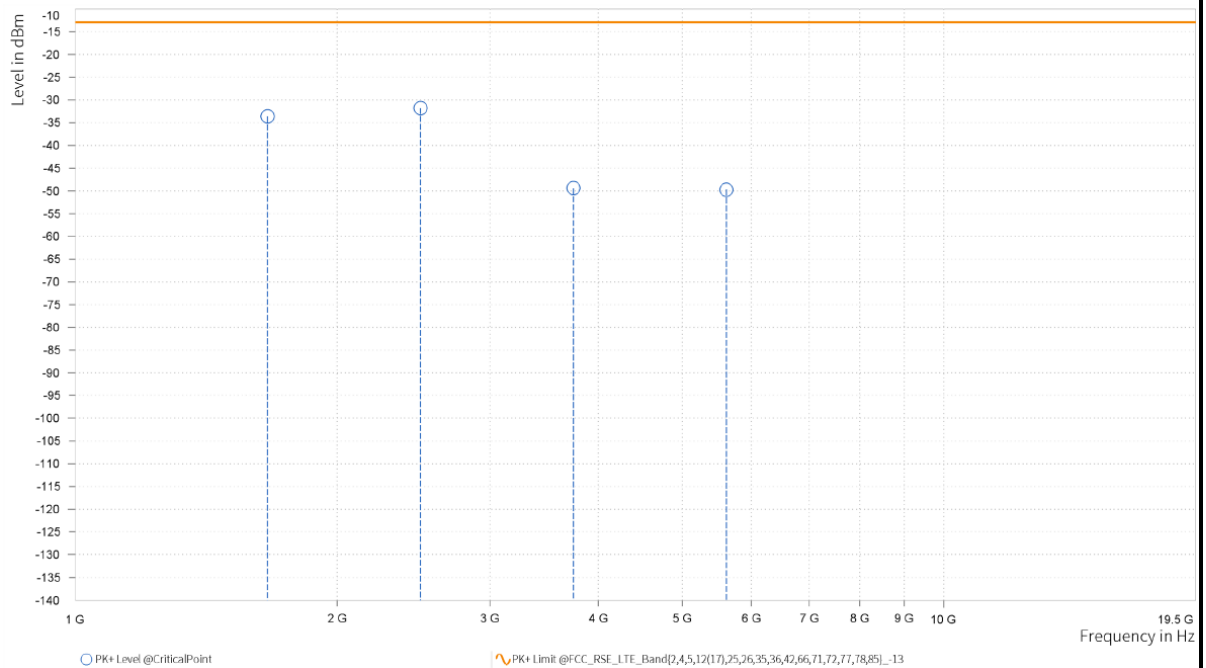




CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26340
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,664.500	-33.61	-13.00	20.61	23.88	V	44.4	2.00
3	2,496.000	-31.78	-13.00	18.78	21.03	V	1	1.00
4	3,747.000	-49.38	-13.00	36.38	22.04	V	101.8	1.00
4	5,620.500	-49.71	-13.00	36.71	25.06	V	329	1.00

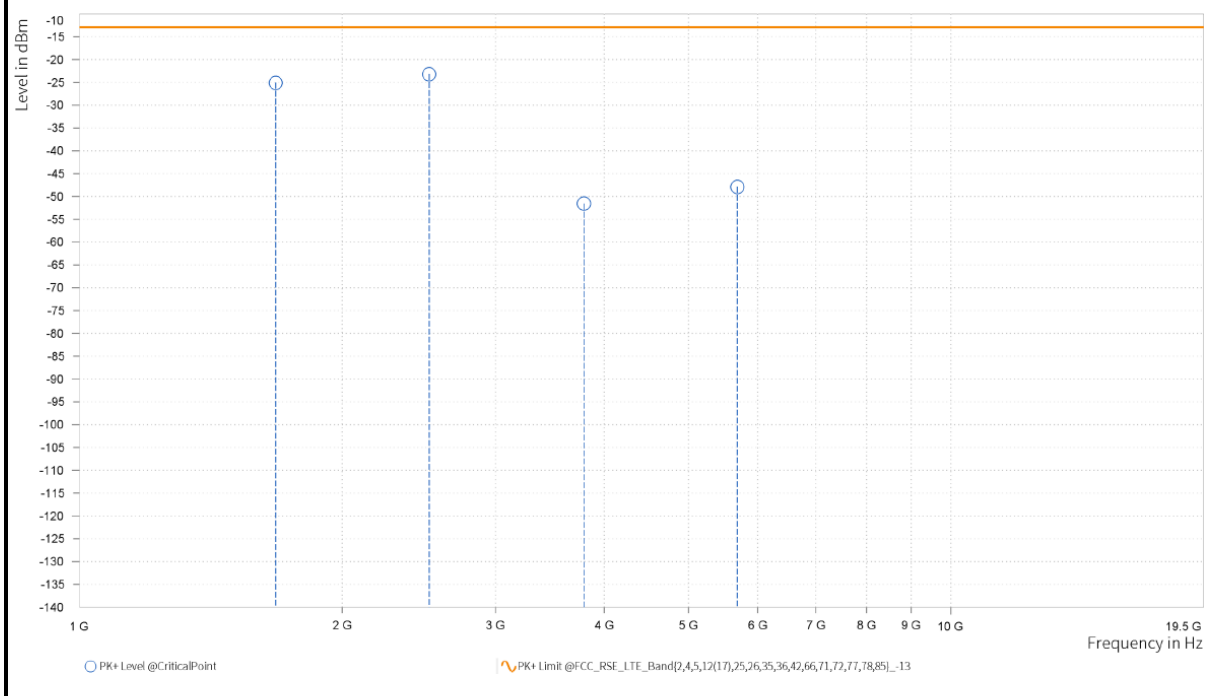


**BUREAU VERITAS** Test Report No.: PSU-QSU2411180418RF03

CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26590
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,679.000	-25.08	-13.00	12.08	25.29	H	190.3	1.00
3	2,518.500	-23.21	-13.00	10.21	20.28	H	1	1.00
4	3,792.000	-51.57	-13.00	38.57	22.18	H	259.6	2.00
4	5,688.000	-47.89	-13.00	34.89	25.02	H	101.8	1.00

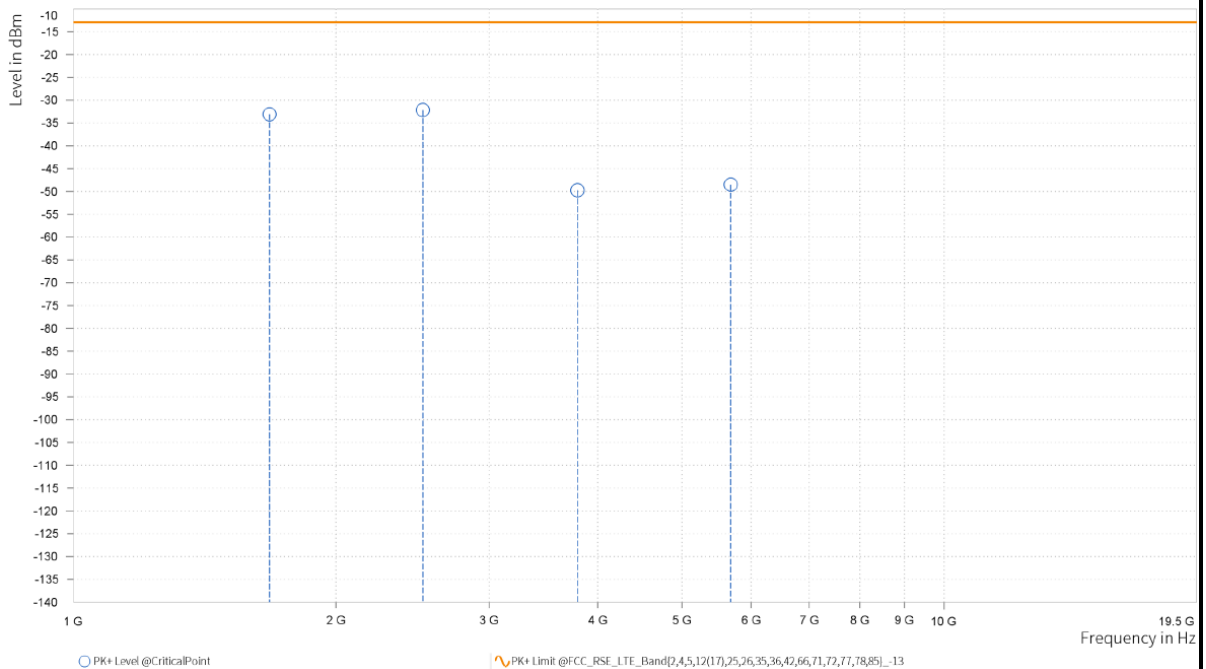




CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26590
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

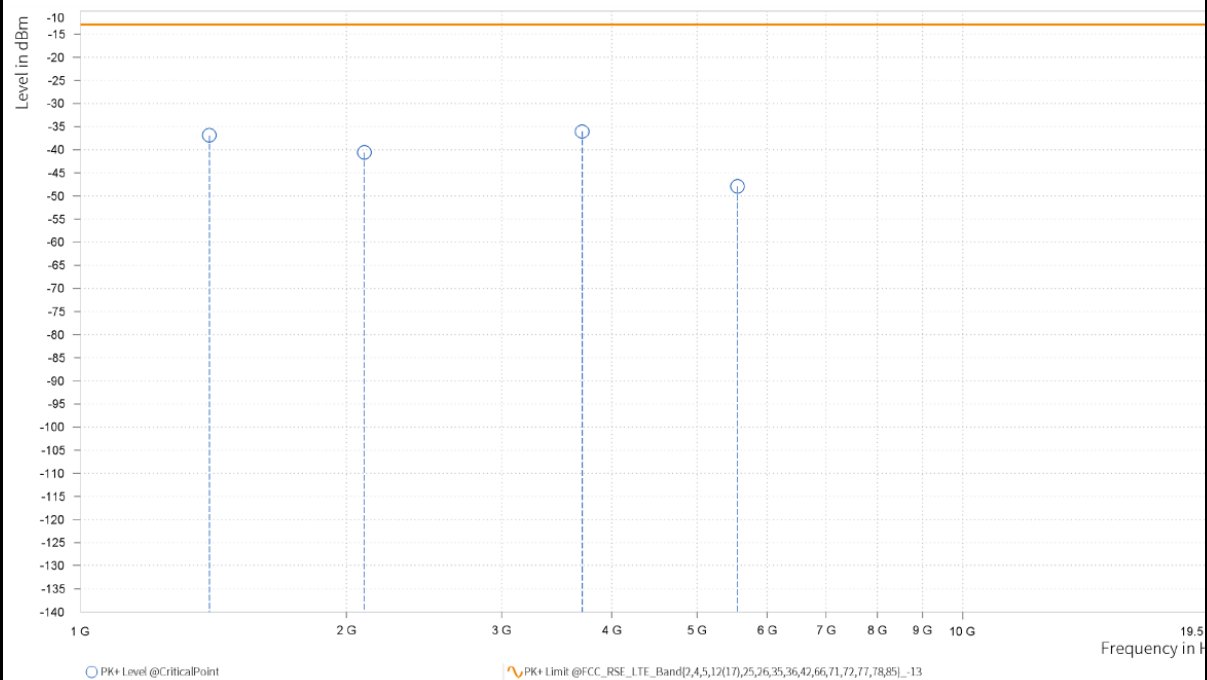
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,680.000	-33.06	-13.00	20.06	24.24	V	106.7	2.00
3	2,519.000	-32.18	-13.00	19.18	21.13	V	321.9	1.00
4	3,792.000	-49.73	-13.00	36.73	22.39	V	359	2.00
4	5,688.000	-48.50	-13.00	35.50	25.44	V	258.9	2.00





LTE Band CA_12-25A			
CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26590
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,399.500	-36.90	-13.00	23.90	22.76	H	36	1.00
2	2,098.500	-40.58	-13.00	27.58	28.22	H	188.1	1.00
4	3,702.000	-36.05	-13.00	23.05	21.12	H	261	2.00
4	5,553.000	-47.92	-13.00	34.92	24.26	H	99	1.00

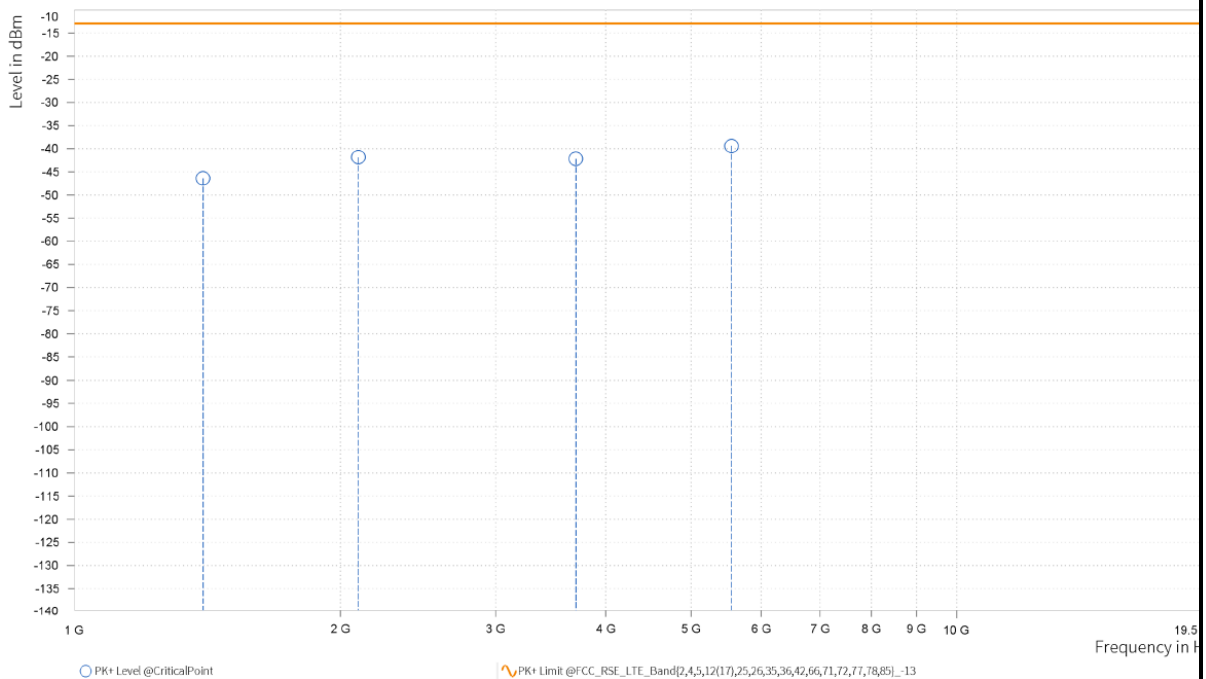




CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26590
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,399.000	-46.40	-13.00	33.40	23.17	V	202.3	1.00
2	2,098.500	-41.85	-13.00	28.85	29.23	V	175.3	2.00
4	3,701.500	-42.16	-13.00	29.16	21.71	V	118.1	1.00
4	5,553.500	-39.38	-13.00	26.38	24.96	V	118.1	1.00





LTE Band CA_12-25A			
CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26140
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,399.500	-36.90	-13.00	23.90	22.76	H	36	1.00
2	2,098.500	-40.58	-13.00	27.58	28.22	H	188.1	1.00
4	3,702.000	-36.05	-13.00	23.05	21.12	H	261	2.00
4	5,553.000	-47.92	-13.00	34.92	24.26	H	99	1.00

