

FCC TEST REPORT

(PART 24)

Applicant:	Juniper Systems, Inc.
Address:	1132 W 1700 N Logan, UT 84321 USA

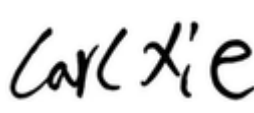
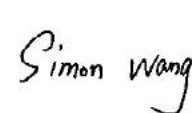
Manufacturer or Supplier:	Juniper Systems, Inc.
Address:	1132 W 1700 N Logan, UT 84321 USA
Product:	ALTA
Brand Name:	Juniper Systems
Model Name:	ALT1 / FC-8000 / SHC8000
FCC ID	VSFALT1
Date of tests	Dec. 30, 2025 - Jul. 10, 2026

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 Carl Xie Engineer / Mobile Department	Approved by Simon Wang Manager / Mobile Department
	
Date: Jul. 10, 2026	Date: Jul. 10, 2026

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
RF260714B007	Original release	Jul. 10, 2026

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:

BOOMWAVE TEST (SHENZHEN) CO., LTD.

Lab Address:

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th Road, Chiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Accredited Test Lab Cert 7607.01

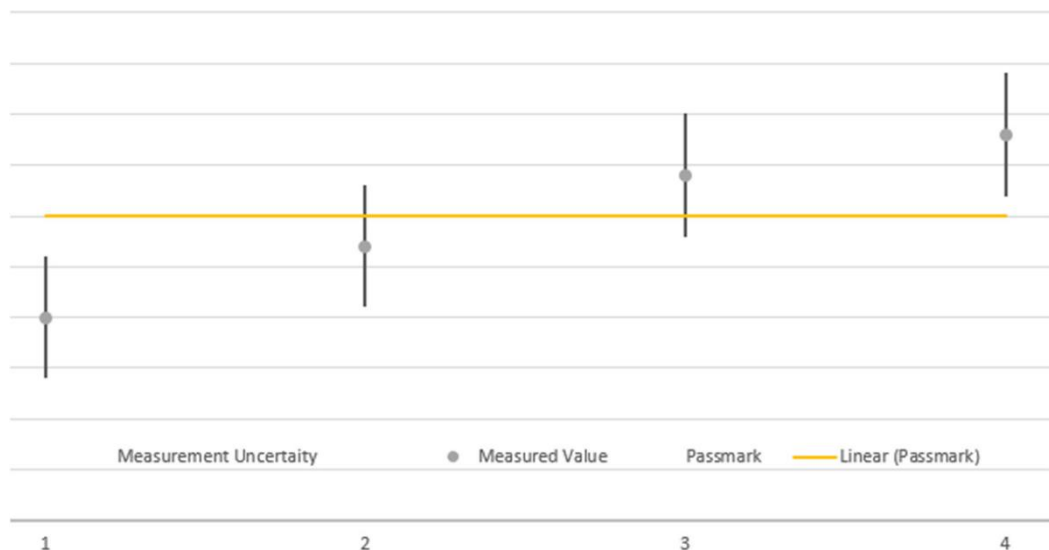
The FCC Site Registration No. is 646781; The Designation No. is CN1429.

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

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	2025/7/3	2027/7/2
BiConiLog Antenna	ETS-LINDGREN	3143B	161965	2025/7/17	2027/7/16
Horn Antenna	SCHWARZBECK	BBHA9120D	3297	2025/9/27	2027/9/26
Horn Antenna	STEATITE	QWH-SL-18-40-K-SG QMS-00361	15433	2025/7/19	2027/7/18
Preamplifier	Tonscend	TPA184045	AP24L8060388	2025/7/3	2027/7/2
MXE EMI Receiver	keysight	N9038B	MY50018017	2025/7/1	2027/6/30
MXG Vector Signal Generator	Keysight	N5183B	MY59100137	2025/6/30	2027/6/29
Preamplifier	Tonscend	TPA001330	806JSAPO40804251015	2025/6/30	2027/6/29
Preamplifier	Tonscend	TPA011845	AP24L8060392	2025/6/30	2027/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2025/6/30	2027/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927165	2025/6/30	2027/6/29
Active Receive Loop Antenna	SCHWARZBECK	FMZB 1519 B	00173	2025/6/30	2027/6/29
Temp. & Humi. Recorder	Kejian	HTC-01	157246	2025/7/2	2027/7/1
HIGH pass FILTER_1-18	EWT	EWT-57-0222	EWT-57-0222	2025/6/30	2027/6/29
HIGH pass FILTER_7-18	EWT	EWT-57-0223	EWT-57-0223	2025/6/30	2027/6/29
HIGH pass FILTER_3-18	EWT	EWT-57-0221	EWT-57-0221	2025/6/30	2027/6/29
DC~1GHz Lowpass Filter	EWT	EWT-56-0649	EWT-56-0649	2025/7/3	2027/7/2
Cable 1	N/A	N/A	N/A	2025/9/28	2027/9/27
Cable 2	N/A	N/A	N/A	2025/9/28	2027/9/27
Cable 3	N/A	N/A	N/A	2025/9/28	2027/9/27
Wireless communication integrated tester	Rohde&Schwarz	CMW500	182016	2025/6/30	2027/6/29
EXA Signal Analyzer	KEYSIGHT	N9010B	MY62170156	2025/6/30	2027/6/29
RF Control Unit	Tonscend	JS0806-1	21K8060504	2025/6/16	2027/6/15
DC Power Supply	AGILENT	HMP2020	100598	2025/7/1	2027/6/30
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-1	2025/6/30	2027/6/29
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-2	2025/6/30	2027/6/29
hygrothermograph	Anymetrers	----	TH101B	2025/7/22	2027/7/21
Temperature Box	zhongkemeiqi	MA22040172	MQ-DTH50F-2	2025/7/1	2027/6/30
power divider	WOKEN	71688	204-003180-01	2025/6/30	2027/6/29
5G Wireless Test	StarPoint	SP9500-	SP9500-20698	2025/1/17	2027/1/16

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Platform		20388			
RF Control Unit	Tonscend	JS0806-1	23K80610751	2025/1/16	2027/1/15
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60110626	2025/7/1	2027/6/30

NOTE:

1. The calibration interval of the above test instruments is 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 646781; The Designation No. is CN1429.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	ALTA	
BRAND NAME	Juniper Systems	
MODEL NAME	ALT1 / FC-8000 / SHC8000	
NOMINAL VOLTAGE	3.7Vdc	
MODULATION TYPE	LTE: QPSK, 16QAM, 64QAM, 256QAM	
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	UL&DL: CA_12A-25A CA_5A-25A DL Only: CA_25A-25A CA_2A-2A CA_2C
MAX. EIRP POWER	LTE Band 2 Channel Bandwidth: 1.4MHz	272.27 mW

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	LTE Band 2 Channel Bandwidth: 3MHz	268.53 mW
	LTE Band 2 Channel Bandwidth: 5MHz	269.77 mW
	LTE Band 2 Channel Bandwidth: 10MHz	270.40 mW
	LTE Band 2 Channel Bandwidth: 15MHz	269.15 mW
	LTE Band 2 Channel Bandwidth: 20MHz	272.90 mW
	LTE Band 25 Channel Bandwidth: 1.4MHz	289.73 mW
	LTE Band 25 Channel Bandwidth: 3MHz	290.40 mW
	LTE Band 25 Channel Bandwidth: 5MHz	286.42 mW
	LTE Band 25 Channel Bandwidth: 10MHz	289.07 mW
	LTE Band 25 Channel Bandwidth: 15MHz	283.79 mW
	LTE Band 25 Channel Bandwidth: 20MHz	291.74 mW
EMISSION DESIGNATOR	LTE Band 25 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D
		16QAM: 1M10W7D
		64QAM: 1M10W7D
		256QAM: 1M10W7D
	LTE Band 25 Channel Bandwidth: 3MHz	QPSK: 2M71G7D
		16QAM: 2M71W7D
		64QAM: 2M71W7D
		256QAM: 2M70W7D
	LTE Band 25 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M50W7D
		64QAM: 4M50W7D
		256QAM: 4M50W7D
	LTE Band 25 Channel Bandwidth: 10MHz	QPSK: 8M99G7D
		16QAM: 9M00W7D
		64QAM: 8M99W7D
		256QAM: 8M98W7D

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CO., LTD.

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	LTE Band 25 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
		256QAM: 13M5W7D
	LTE Band 25 Channel Bandwidth: 20MHz	QPSK: 18M0G7D
		16QAM: 18M0W7D
		64QAM: 17M9W7D
		256QAM: 18M0W7D
ANTENNA GAIN	☒ Provided by client	
	LTE B2	ANT0:-0.5dBi ANT2:-2.64dBi
	LTE B25	ANT0:-0.55dBi ANT2:-2.64dBi
ANTENNA TYPE	Fixed Internal Antenna	
HW VERSION	DVT2	
SW VERSION	JP_W.00.00.0128.T1_USERDEBUG	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
EXTREME TEMPERATURE	-29℃ to 63℃	
EXTREME VOLTAGE	3.4V to 4.2V	

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides two completed transmitter and two receivers.

MODULATION MODE	TX FUNCTION
LTE	2TX/2RX

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

4. List of Accessory:

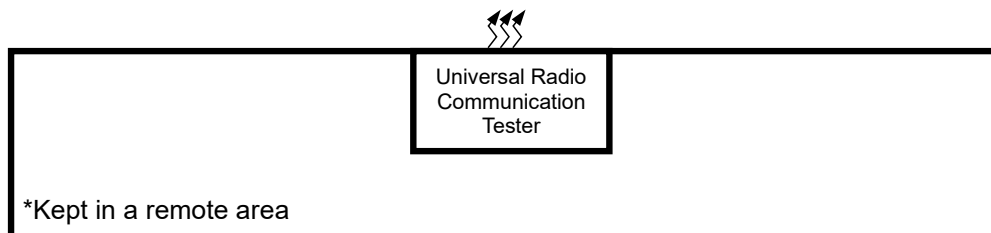
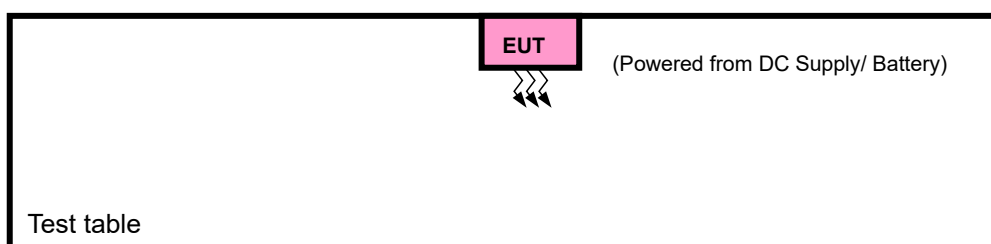
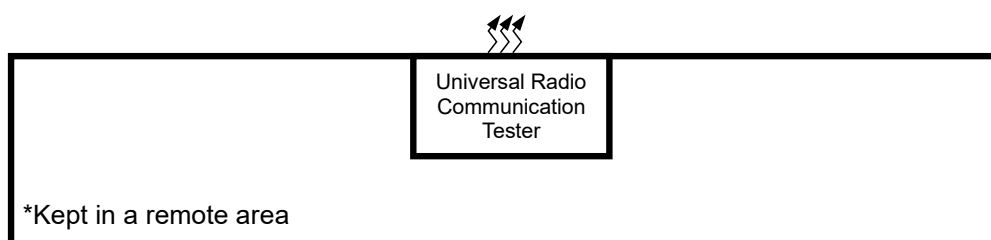
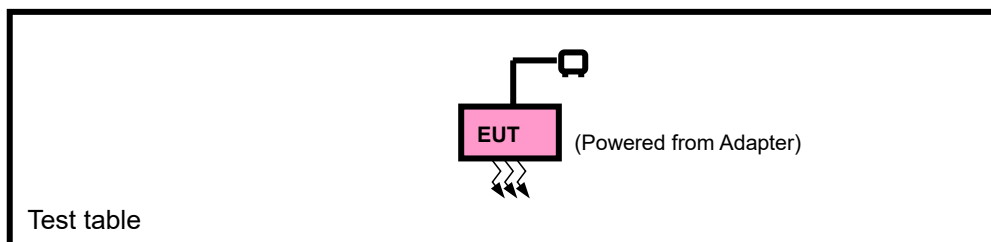
ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery 1	NA	Fullymax Battery Co., Ltd.	FBC442760	3.7Vdc, 700mAh
Battery 2	NA	Fullymax Battery Co., Ltd.	FBC6570106	3.8Vdc, 5700mAh
Battery 3	NA	Fullymax Battery Co., Ltd.	FBC8570106	3.7Vdc, 15000mAh
AC Adapter 1	Juniper	SHENZHEN MERRYKING ELECTRONICS CO.,LTD.	MK-P301EXC	I/P: 100-240Vac, 800mA, O/P: 12Vdc,2500mA

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USB Cable 1	CONSHARE	CONSHARE	80.10.320002	1.0 meter
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2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Laptop	Lenovo	ThinkPad E14	HRSW00024	N/A

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

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case in EIRP and radiated emission was found when positioned on X-plane for 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 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
A	RADIATED EMISSION	18607 to 19193	18900	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		18615 to 19185	18900	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
		18625 to 19175	18900	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

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		18675 to 19125	18900	15MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB offset
		18700 to 19100	18900	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	26140 to 26590	26140,26590	20MHz	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 100 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB offset 100 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB offset 100 RB / 0 RB offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB offset 100 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB offset 100 RB / 0 RB offset

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		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
		26140 to 26590	26140	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset 100 RB / 0 RB offset
			26590	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 99 RB offset 100 RB / 0 RB offset
A	CONDCUDETED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK	1 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK	1 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK	1 RB / 0 RB offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK	1 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK	1 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK	1 RB / 0 RB offset
A	RADIATED EMISSION	26047 to 26683	26365	1.4MHz	QPSK	1 RB / 0 RB offset

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		26055 to 26675	26365	3MHz	QPSK	1 RB / 0 RB offset
		26065 to 26665	26365	5MHz	QPSK	1 RB / 0 RB offset
		26090 to 26640	26090,26365,26640	10MHz	QPSK	1 RB / 0 RB offset
		26115 to 26615	26365	15MHz	QPSK	1 RB / 0 RB offset
		26140 to 26590	26365	20MHz	QPSK	1 RB / 0 RB offset

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

TEST CONDITION			
TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 3.7V By Battery	Carl Xie
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.4/3.7/4.2V By DC Supply	Alan Yu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 3.7V By Battery	Alan Yu
BAND EDGE	23deg. C, 70%RH	DC 3.7V By Battery	Alan Yu
CONDCUDED EMISSION	23deg. C, 70%RH	DC 3.7V By Battery	Alan Yu
RADIATED EMISSION	23deg. C, 70%RH	DC 3.7V By Battery	Carl Xie
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 3.7V By Battery	Alan Yu

2.5 EUT OPERATING CONDITIONS

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

2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC 47 CFR Part 2

FCC 47 CFR Part 24

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

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

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts EIRP.

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

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

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , typically dBW or dBm);

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

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

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

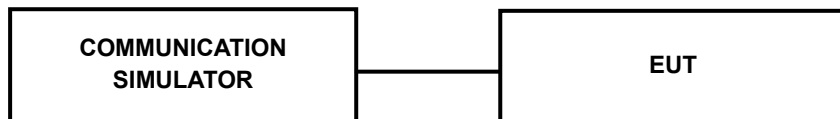
CONDUCTED POWER MEASUREMENT:

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

3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm) :

LTE Band 2 (Ant0)						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20	QPSK	1	0	24.83	24.86	24.82
		1	50	24.76	24.78	24.81
		1	99	24.71	24.63	24.75
		50	0	23.93	23.98	23.85
		50	25	23.84	23.92	23.84
		50	50	23.87	23.90	23.71
		100	0	23.92	23.98	23.83
	16QAM	1	0	24.03	24.16	24.00
		1	50	23.97	24.15	23.79
		1	99	24.05	24.07	23.55
		50	0	22.99	23.09	22.82
		50	25	22.97	22.92	22.80
		50	50	22.86	22.76	22.77
		100	0	22.98	23.01	22.85
	64QAM	1	0	23.20	23.19	23.06
		1	50	23.00	23.16	23.35
		1	99	23.18	22.83	22.64
		50	0	21.90	22.02	21.90
		50	25	22.06	21.93	21.81
		50	50	21.96	21.92	21.77
		100	0	21.99	21.86	21.88
	256QAM	1	0	19.93	20.13	19.87
		1	50	19.86	19.96	19.81
		1	99	19.97	20.06	19.76
		50	0	19.80	19.91	19.90
		50	25	20.07	19.93	19.81
		50	50	20.00	19.91	19.73

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		100	0	20.01	19.84	19.80
BW [MHz]	Modulation	Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15	QPSK	1	0	24.69	24.77	24.70
		1	37	24.70	24.72	24.80
		1	74	24.59	24.61	24.62
		36	0	23.91	23.92	23.79
		36	19	24.06	23.72	23.83
		36	39	23.90	23.84	23.56
		75	0	23.98	23.90	23.68
	16QAM	1	0	23.92	24.11	23.96
		1	37	23.95	24.34	23.66
		1	74	23.91	23.84	23.41
		36	0	22.95	22.83	22.72
		36	19	22.95	22.89	22.76
		36	39	22.96	22.70	22.70
		75	0	22.88	22.84	22.74
	64QAM	1	0	23.10	23.04	22.94
		1	37	22.96	23.13	23.20
		1	74	23.11	22.79	22.58
		36	0	21.87	21.87	21.83
		36	19	21.99	21.87	21.71
		36	39	21.86	21.90	21.66
		75	0	21.96	21.79	21.73
	256QAM	1	0	19.80	20.01	19.85
		1	37	19.85	19.90	19.76
		1	74	19.87	19.97	19.68
		36	0	19.66	19.84	19.76
		36	19	19.95	19.81	19.67
		36	39	19.94	19.90	19.70
		75	0	19.89	19.73	19.72
BW [MHz]	Modulation	Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10	QPSK	1	0	24.82	24.76	24.71
		1	24	24.71	24.64	24.75
		1	49	24.69	24.61	24.67
		25	0	23.85	23.92	23.70
		25	12	23.96	23.79	23.76
		25	25	23.88	23.87	23.62
		50	0	23.87	23.87	23.70
	16QAM	1	0	24.02	24.03	23.92
		1	24	23.92	24.23	23.69
		1	49	23.90	23.83	23.45
		25	0	22.86	22.86	22.70
		25	12	22.99	22.90	22.74
		25	25	22.95	22.69	22.67

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		50	0	22.92	22.83	22.77
	64QAM	1	0	23.10	23.11	22.98
		1	24	22.92	23.02	23.31
		1	49	23.05	22.72	22.63
		25	0	21.87	21.92	21.80
		25	12	22.01	21.87	21.67
		25	25	21.85	21.87	21.66
		50	0	21.94	21.74	21.78
	256QAM	1	0	19.86	20.03	19.73
		1	24	19.81	19.94	19.80
		1	49	19.92	20.03	19.67
		25	0	19.73	19.80	19.80
		25	12	20.04	19.91	19.67
		25	25	19.96	19.80	19.58
		50	0	19.91	19.72	19.71
BW [MHz]	Modulation	Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5	QPSK	1	0	24.72	24.81	24.73
		1	12	24.66	24.68	24.76
		1	24	24.66	24.62	24.61
		12	0	23.93	23.85	23.75
		12	6	23.98	23.79	23.70
		12	13	23.85	23.88	23.64
		25	0	23.96	23.87	23.77
	16QAM	1	0	23.90	24.07	23.87
		1	12	23.94	24.32	23.65
		1	24	23.90	23.82	23.50
		12	0	22.90	22.91	22.71
		12	6	23.08	22.84	22.73
		12	13	23.00	22.63	22.76
		25	0	22.93	22.93	22.70
	64QAM	1	0	23.08	23.10	23.05
		1	12	22.94	23.09	23.21
		1	24	23.13	22.72	22.62
		12	0	21.80	21.97	21.78
		12	6	21.95	21.91	21.80
		12	13	21.91	21.83	21.71
		25	0	21.94	21.72	21.73
	256QAM	1	0	19.86	20.10	19.83
		1	12	19.84	19.86	19.77
		1	24	19.93	19.92	19.62
		12	0	19.79	19.90	19.80
		12	6	19.95	19.90	19.68
		12	13	19.96	19.85	19.63
		25	0	19.86	19.79	19.67
BW	Modulation	Channel		18615	18900	19185

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[MHz]		Frequency (MHz)		1851.5	1880	1908.5
3	QPSK	1	0	24.69	24.79	24.78
		1	7	24.64	24.74	24.76
		1	14	24.59	24.52	24.74
		8	0	23.97	23.87	23.72
		8	3	23.95	23.70	23.71
		8	7	23.94	23.76	23.60
		15	0	23.89	23.87	23.74
	16QAM	1	0	24.02	24.14	23.85
		1	7	23.96	24.31	23.78
		1	14	23.94	23.87	23.48
		8	0	22.87	22.90	22.70
		8	3	23.00	22.87	22.72
		8	7	22.92	22.71	22.70
		15	0	22.99	22.83	22.76
	64QAM	1	0	23.18	23.18	22.93
		1	7	22.94	23.03	23.23
		1	14	23.03	22.77	22.54
		8	0	21.89	21.95	21.80
		8	3	22.05	21.82	21.72
		8	7	21.95	21.85	21.73
		15	0	21.85	21.77	21.87
	256QAM	1	0	19.83	20.00	19.86
		1	7	19.82	19.86	19.68
		1	14	19.86	19.94	19.65
		8	0	19.73	19.82	19.81
		8	3	20.02	19.81	19.72
		8	7	19.87	19.81	19.69
		15	0	20.00	19.75	19.75
BW [MHz]	Modulation	Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4	QPSK	1	0	24.81	24.84	24.67
		1	2	24.69	24.71	24.73
		1	5	24.57	24.50	24.74
		3	0	24.75	24.60	24.50
		3	1	24.85	24.61	24.53
		3	3	24.70	24.62	24.50
		6	0	23.90	23.77	23.81
	16QAM	1	0	23.91	24.13	23.90
		1	2	23.96	24.21	23.72
		1	5	24.03	23.86	23.50
		3	0	23.70	23.68	23.55
		3	1	23.76	23.69	23.48
		3	3	23.73	23.54	23.56
		6	0	22.93	22.84	22.71
	64QAM	1	0	23.17	23.10	22.93

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		1	2	22.90	23.14	23.33
		1	5	23.15	22.75	22.61
		3	0	22.65	22.77	22.67
		3	1	22.82	22.70	22.57
		3	3	22.66	22.59	22.53
		6	0	21.94	21.75	21.79
	256QAM	1	0	19.95	20.05	19.98
		1	2	19.84	19.93	19.86
		1	5	19.76	19.75	19.92
		3	0	19.08	19.11	18.90
		3	1	18.89	19.04	19.02
		3	3	19.06	19.09	18.78
		6	0	19.09	19.13	18.99

LTE Band 2 (Ant2)						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20	QPSK	1	0	24.78	24.81	24.85
		1	50	24.72	24.79	24.81
		1	99	24.67	24.77	24.79
		50	0	23.82	23.85	23.92
		50	25	23.91	23.90	23.99
		50	50	23.89	23.88	23.95
		100	0	23.90	23.84	23.95
	16QAM	1	0	24.01	24.05	24.08
		1	50	24.03	24.08	24.06
		1	99	24.02	24.03	24.03
		50	0	22.79	22.83	22.88
		50	25	22.83	22.87	22.83
		50	50	22.88	22.91	22.93
		100	0	22.81	22.85	22.89
	64QAM	1	0	22.90	22.93	22.99
		1	50	22.95	22.98	22.91
		1	99	22.88	22.94	22.95
		50	0	21.77	21.85	21.89
		50	25	21.75	21.89	21.85
		50	50	21.81	21.91	21.83
		100	0	21.78	21.84	21.86
	256QAM	1	0	19.82	19.91	19.93
		1	50	19.88	19.97	19.95
		1	99	19.93	20.03	19.99
		50	0	19.85	19.83	19.91
		50	25	19.86	19.81	19.91
		50	50	19.82	19.89	19.83
		100	0	19.84	19.82	19.85
BW [MHz]	Modulation	Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15	QPSK	1	0	24.77	24.74	24.77
		1	37	24.66	24.76	24.80
		1	74	24.58	24.65	24.65
		36	0	23.69	23.74	23.77
		36	19	23.83	23.85	23.88
		36	39	23.79	23.87	23.80
		75	0	23.80	23.77	23.90
	16QAM	1	0	23.99	23.97	23.93
		1	37	23.99	24.02	24.05
		1	74	23.93	24.02	23.99
		36	0	22.70	22.68	22.75

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		36	19	22.68	22.72	22.78
		36	39	22.75	22.83	22.86
		75	0	22.66	22.79	22.75
	64QAM	1	0	22.77	22.85	22.89
		1	37	22.91	22.92	22.86
		1	74	22.81	22.90	22.81
		36	0	21.64	21.77	21.88
		36	19	21.69	21.86	21.73
		36	39	21.71	21.86	21.79
		75	0	21.75	21.79	21.79
	256QAM	1	0	19.77	19.76	19.90
		1	37	19.86	19.93	19.92
		1	74	19.85	19.99	19.91
		36	0	19.82	19.77	19.79
		36	19	19.75	19.79	19.82
		36	39	19.80	19.87	19.82
		75	0	19.71	19.81	19.77
BW [MHz]	Modulation	Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10	QPSK	1	0	24.69	24.72	24.79
		1	24	24.70	24.75	24.80
		1	49	24.64	24.67	24.70
		25	0	23.74	23.70	23.90
		25	12	23.88	23.88	23.93
		25	25	23.87	23.86	23.94
		50	0	23.76	23.71	23.82
	16QAM	1	0	23.86	24.02	24.02
		1	24	23.95	23.94	23.92
		1	49	23.94	23.91	23.89
		25	0	22.73	22.72	22.87
		25	12	22.70	22.83	22.74
		25	25	22.73	22.77	22.79
		50	0	22.79	22.78	22.75
	64QAM	1	0	22.78	22.88	22.88
		1	24	22.82	22.92	22.79
		1	49	22.84	22.80	22.84
		25	0	21.76	21.70	21.84
		25	12	21.68	21.80	21.83
		25	25	21.74	21.76	21.80
		50	0	21.67	21.69	21.76
	256QAM	1	0	19.72	19.82	19.89
		1	24	19.86	19.94	19.84
		1	49	19.83	19.89	19.97
		25	0	19.73	19.71	19.78
		25	12	19.80	19.77	19.80
		25	25	19.71	19.76	19.76

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		50	0	19.69	19.75	19.82
BW [MHz]	Modulation	Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5	QPSK	1	0	24.70	24.79	24.80
		1	12	24.64	24.74	24.73
		1	24	24.56	24.63	24.70
		12	0	23.69	23.84	23.85
		12	6	23.85	23.85	23.94
		12	13	23.77	23.78	23.84
		25	0	23.75	23.81	23.92
	16QAM	1	0	23.96	23.95	23.99
		1	12	23.99	24.05	23.91
		1	24	23.88	24.00	24.01
		12	0	22.78	22.80	22.76
		12	6	22.80	22.72	22.74
		12	13	22.86	22.78	22.90
		25	0	22.78	22.79	22.77
	64QAM	1	0	22.80	22.82	22.88
		1	12	22.93	22.91	22.90
		1	24	22.76	22.91	22.92
		12	0	21.63	21.79	21.81
		12	6	21.60	21.79	21.76
		12	13	21.78	21.82	21.78
		25	0	21.66	21.80	21.80
	256QAM	1	0	19.76	19.83	19.86
		1	12	19.84	19.87	19.90
		1	24	19.84	20.02	19.89
		12	0	19.77	19.74	19.85
		12	6	19.75	19.69	19.90
		12	13	19.77	19.81	19.79
		25	0	19.81	19.75	19.71
BW [MHz]	Modulation	Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3	QPSK	1	0	24.67	24.80	24.72
		1	7	24.62	24.66	24.78
		1	14	24.59	24.70	24.73
		8	0	23.69	23.82	23.84
		8	3	23.81	23.80	23.96
		8	7	23.79	23.87	23.88
		15	0	23.81	23.79	23.92
	16QAM	1	0	23.87	23.94	24.05
		1	7	23.88	24.04	23.94
		1	14	23.90	23.95	24.02
		8	0	22.71	22.80	22.81
		8	3	22.74	22.75	22.82
		8	7	22.82	22.78	22.82

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	64QAM	15	0	22.78	22.73	22.79
		1	0	22.84	22.85	22.93
		1	7	22.89	22.97	22.77
		1	14	22.76	22.86	22.93
		8	0	21.65	21.84	21.74
		8	3	21.70	21.84	21.72
		8	7	21.67	21.90	21.70
		15	0	21.76	21.77	21.76
	256QAM	1	0	19.72	19.89	19.86
		1	7	19.75	19.83	19.82
		1	14	19.82	19.93	19.86
		8	0	19.73	19.77	19.88
		8	3	19.85	19.80	19.76
		8	7	19.79	19.75	19.82
		15	0	19.82	19.73	19.75
BW [MHz]	Modulation	Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4	QPSK	1	0	24.64	24.75	24.73
		1	2	24.66	24.65	24.73
		1	5	24.54	24.70	24.68
		3	0	24.51	24.54	24.57
		3	1	24.56	24.62	24.69
		3	3	24.60	24.53	24.65
		6	0	23.89	23.76	23.85
	16QAM	1	0	23.92	23.92	24.04
		1	2	24.00	24.05	23.92
		1	5	23.89	23.99	24.01
		3	0	23.63	23.58	23.69
		3	1	23.58	23.72	23.56
		3	3	23.75	23.76	23.71
		6	0	22.75	22.74	22.85
	64QAM	1	0	22.83	22.82	22.92
		1	2	22.89	22.87	22.85
		1	5	22.83	22.81	22.84
		3	0	22.63	22.69	22.67
		3	1	22.60	22.65	22.62
		3	3	22.59	22.71	22.63
		6	0	21.68	21.81	21.79
	256QAM	1	0	19.76	19.81	19.78
		1	2	19.85	19.94	19.94
		1	5	19.86	19.91	19.87
		3	0	19.75	19.76	19.77
		3	1	19.72	19.74	19.83
		3	3	19.80	19.88	19.71
		6	0	19.82	19.68	19.77

LTE Band 25 (Ant0)						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20	QPSK	1	0	25.04	25.08	24.46
		1	50	25.20	25.13	24.51
		1	99	25.08	24.91	24.43
		50	0	23.91	23.88	23.96
		50	25	24.02	23.92	23.98
		50	50	23.99	23.82	23.64
		100	0	24.01	23.95	23.75
	16QAM	1	0	24.41	23.88	23.65
		1	50	23.93	24.39	23.57
		1	99	23.89	24.16	23.55
		50	0	23.12	23.03	22.86
		50	25	23.09	22.90	22.74
		50	50	23.07	22.89	22.61
		100	0	22.99	22.94	22.68
	64QAM	1	0	23.19	23.24	22.80
		1	50	23.18	23.24	22.71
		1	99	23.14	22.88	23.01
		50	0	21.95	21.91	21.81
		50	25	22.09	21.88	21.80
		50	50	22.04	21.77	21.63
		100	0	21.97	21.81	21.77
	256QAM	1	0	20.16	20.06	20.02
		1	50	20.15	20.04	19.77
		1	99	20.11	19.88	19.53
		50	0	19.95	19.91	19.82
		50	25	20.06	19.87	19.74
		50	50	20.00	19.77	19.58
		100	0	20.04	19.89	19.75
BW [MHz]	Modulation	Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15	QPSK	1	0	24.96	24.97	24.33
		1	37	25.08	25.00	24.48
		1	74	25.05	24.78	24.32
		36	0	23.79	23.75	23.92
		36	19	24.00	23.88	23.94
		36	39	23.86	23.79	23.57
		75	0	23.95	23.83	23.67
	16QAM	1	0	24.40	23.87	23.64
		1	37	23.91	24.38	23.43
		1	74	23.87	24.07	23.42

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		36	0	23.01	22.98	22.84
		36	19	22.95	22.85	22.68
		36	39	22.99	22.81	22.47
		75	0	22.92	22.92	22.59
	64QAM	1	0	23.12	23.18	22.67
		1	37	23.16	23.23	22.65
		1	74	23.04	22.78	22.88
		36	0	21.89	21.90	21.72
		36	19	21.99	21.75	21.69
		36	39	21.99	21.67	21.59
		75	0	21.96	21.70	21.70
	256QAM	1	0	20.13	20.04	19.97
		1	37	20.09	19.94	19.73
		1	74	20.09	19.82	19.48
		36	0	19.93	19.84	19.81
		36	19	20.05	19.73	19.72
		36	39	19.85	19.76	19.55
		75	0	20.01	19.88	19.71
BW [MHz]	Modulation	Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10	QPSK	1	0	24.99	25.07	24.35
		1	24	25.16	25.03	24.38
		1	49	24.97	24.81	24.33
		25	0	23.77	23.77	23.82
		25	12	23.89	23.81	23.86
		25	25	23.94	23.68	23.49
		50	0	23.92	23.87	23.63
	16QAM	1	0	24.28	23.75	23.63
		1	24	23.82	24.28	23.49
		1	49	23.84	24.09	23.50
		25	0	23.00	22.90	22.72
		25	12	23.07	22.78	22.60
		25	25	23.00	22.75	22.60
		50	0	22.84	22.89	22.67
	64QAM	1	0	23.15	23.16	22.65
		1	24	23.15	23.21	22.66
		1	49	23.13	22.86	22.94
		25	0	21.90	21.82	21.70
		25	12	21.95	21.80	21.78
		25	25	21.97	21.63	21.50
		50	0	21.94	21.79	21.74
	256QAM	1	0	20.02	20.04	19.96
		1	24	20.12	20.03	19.65
		1	49	20.08	19.82	19.48
		25	0	19.88	19.82	19.68
		25	12	20.03	19.73	19.62

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		25	25	19.97	19.76	19.47
		50	0	19.94	19.83	19.63
BW [MHz]	Modulation	Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5	QPSK	1	0	25.00	24.96	24.44
		1	12	25.09	25.12	24.41
		1	24	24.99	24.85	24.30
		12	0	23.86	23.80	23.95
		12	6	23.89	23.77	23.86
		12	13	23.84	23.72	23.58
		25	0	23.89	23.82	23.66
	16QAM	1	0	24.34	23.86	23.58
		1	12	23.79	24.32	23.45
		1	24	23.85	24.11	23.40
		12	0	23.09	23.02	22.81
		12	6	22.97	22.81	22.67
		12	13	23.00	22.81	22.56
		25	0	22.88	22.82	22.65
	64QAM	1	0	23.18	23.14	22.77
		1	12	23.17	23.21	22.61
		1	24	23.12	22.87	22.86
		12	0	21.81	21.78	21.70
		12	6	22.07	21.74	21.79
		12	13	21.91	21.63	21.56
		25	0	21.82	21.69	21.74
	256QAM	1	0	20.04	19.91	19.95
		1	12	20.13	19.94	19.73
		1	24	20.08	19.75	19.40
		12	0	19.86	19.78	19.70
		12	6	20.00	19.86	19.72
		12	13	19.96	19.75	19.47
		25	0	20.02	19.74	19.71
BW [MHz]	Modulation	Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3	QPSK	1	0	24.94	24.93	24.36
		1	7	25.18	25.05	24.48
		1	14	25.05	24.90	24.39
		8	0	23.88	23.81	23.89
		8	3	23.93	23.87	23.92
		8	7	23.96	23.68	23.51
		15	0	23.96	23.82	23.64
	16QAM	1	0	24.28	23.86	23.55
		1	7	23.89	24.37	23.44
		1	14	23.80	24.05	23.49
		8	0	23.08	22.97	22.76
		8	3	23.03	22.76	22.60

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		8	7	22.92	22.78	22.50
		15	0	22.85	22.85	22.58
	64QAM	1	0	23.16	23.14	22.69
		1	7	23.04	23.12	22.63
		1	14	23.07	22.76	22.95
		8	0	21.86	21.78	21.71
		8	3	21.96	21.87	21.76
		8	7	21.89	21.69	21.52
		15	0	21.83	21.78	21.74
	256QAM	1	0	20.07	20.05	20.00
		1	7	20.01	19.97	19.70
		1	14	20.10	19.87	19.50
		8	0	19.81	19.90	19.70
		8	3	19.96	19.78	19.68
		8	7	19.99	19.65	19.49
		15	0	19.98	19.81	19.67
BW [MHz]	Modulation	Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4	QPSK	1	0	24.94	25.05	24.39
		1	2	25.17	25.06	24.36
		1	5	24.93	24.89	24.41
		3	0	24.66	24.62	24.67
		3	1	24.80	24.62	24.67
		3	3	24.66	24.61	24.32
		6	0	23.96	23.87	23.72
	16QAM	1	0	24.36	23.80	23.61
		1	2	23.78	24.29	23.47
		1	5	23.76	24.06	23.46
		3	0	23.91	23.80	23.55
		3	1	23.80	23.57	23.48
		3	3	23.80	23.66	23.30
		6	0	22.95	22.88	22.56
	64QAM	1	0	23.10	23.23	22.70
		1	2	23.05	23.15	22.60
		1	5	23.09	22.79	22.90
		3	0	22.74	22.64	22.51
		3	1	22.77	22.56	22.49
		3	3	22.80	22.46	22.43
		6	0	21.87	21.71	21.65
	256QAM	1	0	20.04	20.05	19.88
		1	2	20.14	20.00	19.75
		1	5	20.00	19.79	19.46
		3	0	20.44	20.39	20.33
		3	1	20.46	20.46	20.41
		3	3	20.27	20.23	20.38
		6	0	20.00	19.76	19.74

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LTE Band 25 (Ant2)						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20	QPSK	1	0	24.73	24.66	24.83
		1	50	24.76	24.82	24.85
		1	99	24.71	24.73	24.66
		50	0	23.85	23.86	23.89
		50	25	23.91	23.88	23.95
		50	50	23.93	23.92	23.96
		100	0	23.91	23.85	23.98
	16QAM	1	0	23.95	23.92	23.96
		1	50	23.91	23.98	23.94
		1	99	23.93	23.93	23.95
		50	0	22.85	22.87	22.91
		50	25	22.82	22.89	22.88
		50	50	22.87	22.91	22.86
		100	0	22.83	22.86	22.89
	64QAM	1	0	23.01	23.03	23.08
		1	50	22.98	23.08	23.10
		1	99	22.97	23.02	23.05
		50	0	21.86	21.83	21.88
		50	25	21.81	21.85	21.86
		50	50	21.84	21.89	21.84
		100	0	21.82	21.85	21.81
	256QAM	1	0	19.90	19.93	19.98
		1	50	19.88	20.04	19.94
		1	99	19.93	20.06	19.96
		50	0	19.81	19.84	19.88
		50	25	19.83	19.81	19.90
		50	50	19.85	19.89	19.85
		100	0	19.84	19.85	19.87
BW [MHz]	Modulation	Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15	QPSK	1	0	24.69	24.53	24.72
		1	37	24.63	24.69	24.70
		1	74	24.67	24.61	24.57
		36	0	23.74	23.83	23.74
		36	19	23.83	23.80	23.84
		36	39	23.91	23.86	23.82
		75	0	23.80	23.79	23.91
	16QAM	1	0	23.90	23.83	23.91
		1	37	23.85	23.90	23.87
		1	74	23.89	23.79	23.91

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		36	0	22.78	22.81	22.89
		36	19	22.80	22.85	22.83
		36	39	22.82	22.89	22.77
		75	0	22.78	22.75	22.79
	64QAM	1	0	22.93	23.02	23.03
		1	37	22.84	23.01	23.00
		1	74	22.85	22.95	23.00
		36	0	21.85	21.75	21.86
		36	19	21.75	21.77	21.71
		36	39	21.72	21.87	21.77
		75	0	21.70	21.82	21.77
	256QAM	1	0	19.79	19.90	19.95
		1	37	19.77	19.95	19.82
		1	74	19.92	19.95	19.91
		36	0	19.74	19.83	19.85
		36	19	19.69	19.76	19.75
		36	39	19.81	19.78	19.71
		75	0	19.83	19.74	19.86
		Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10	QPSK	1	0	24.65	24.56	24.82
		1	24	24.73	24.68	24.80
		1	49	24.58	24.67	24.54
		25	0	23.72	23.81	23.78
		25	12	23.88	23.76	23.85
		25	25	23.86	23.89	23.82
		50	0	23.79	23.80	23.89
	16QAM	1	0	23.87	23.88	23.94
		1	24	23.82	23.97	23.88
		1	49	23.86	23.84	23.87
		25	0	22.76	22.82	22.90
		25	12	22.80	22.76	22.83
		25	25	22.74	22.79	22.74
		50	0	22.82	22.72	22.85
	64QAM	1	0	22.99	22.97	22.93
		1	24	22.89	22.97	23.05
		1	49	22.87	22.90	23.02
		25	0	21.81	21.79	21.82
		25	12	21.74	21.70	21.74
		25	25	21.78	21.85	21.73
		50	0	21.69	21.73	21.75
	256QAM	1	0	19.83	19.89	19.87
		1	24	19.84	19.90	19.91
		1	49	19.90	20.03	19.81
		25	0	19.77	19.76	19.76
		25	12	19.81	19.70	19.80

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		25	25	19.81	19.83	19.70
		50	0	19.69	19.77	19.74
BW [MHz]	Modulation	Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5	QPSK	1	0	24.64	24.61	24.68
		1	12	24.61	24.79	24.75
		1	24	24.57	24.68	24.61
		12	0	23.75	23.76	23.74
		12	6	23.84	23.78	23.94
		12	13	23.82	23.86	23.88
		25	0	23.79	23.70	23.83
	16QAM	1	0	23.87	23.91	23.91
		1	12	23.76	23.85	23.80
		1	24	23.91	23.84	23.85
		12	0	22.76	22.84	22.80
		12	6	22.79	22.84	22.83
		12	13	22.85	22.84	22.77
		25	0	22.71	22.73	22.84
	64QAM	1	0	22.89	22.96	22.93
		1	12	22.94	22.98	23.01
		1	24	22.89	22.87	23.00
		12	0	21.81	21.80	21.81
		12	6	21.68	21.83	21.85
		12	13	21.82	21.75	21.75
		25	0	21.79	21.70	21.67
	256QAM	1	0	19.88	19.91	19.90
		1	12	19.80	19.91	19.79
		1	24	19.87	19.94	19.89
		12	0	19.70	19.80	19.87
		12	6	19.79	19.77	19.80
		12	13	19.71	19.78	19.71
		25	0	19.80	19.76	19.82
BW [MHz]	Modulation	Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3	QPSK	1	0	24.64	24.52	24.73
		1	7	24.64	24.72	24.77
		1	14	24.64	24.68	24.54
		8	0	23.82	23.80	23.83
		8	3	23.85	23.74	23.84
		8	7	23.80	23.90	23.90
		15	0	23.76	23.81	23.91
	16QAM	1	0	23.82	23.77	23.95
		1	7	23.87	23.94	23.86
		1	14	23.83	23.90	23.86
		8	0	22.83	22.84	22.80
		8	3	22.72	22.74	22.81

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		8	7	22.73	22.84	22.79
		15	0	22.74	22.76	22.85
	64QAM	1	0	22.94	22.98	22.98
		1	7	22.84	22.98	23.04
		1	14	22.90	22.90	22.91
		8	0	21.81	21.70	21.87
		8	3	21.70	21.82	21.84
		8	7	21.83	21.82	21.79
		15	0	21.76	21.72	21.75
	256QAM	1	0	19.76	19.91	19.86
		1	7	19.74	19.91	19.86
		1	14	19.88	20.02	19.81
		8	0	19.79	19.83	19.79
		8	3	19.79	19.72	19.86
		8	7	19.73	19.79	19.82
		15	0	19.69	19.75	19.73
BW [MHz]	Modulation	Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4	QPSK	1	0	24.59	24.56	24.82
		1	2	24.64	24.81	24.81
		1	5	24.64	24.66	24.54
		3	0	24.60	24.53	24.58
		3	1	24.60	24.60	24.64
		3	3	24.61	24.66	24.70
		6	0	23.79	23.76	23.95
	16QAM	1	0	23.93	23.77	23.86
		1	2	23.81	23.89	23.92
		1	5	23.89	23.81	23.93
		3	0	23.54	23.68	23.68
		3	1	23.56	23.58	23.62
		3	3	23.54	23.63	23.65
		6	0	22.73	22.71	22.83
	64QAM	1	0	22.99	22.95	22.94
		1	2	22.86	22.95	22.95
		1	5	22.84	22.99	22.98
		3	0	22.58	22.55	22.67
		3	1	22.48	22.53	22.65
		3	3	22.60	22.56	22.57
		6	0	21.70	21.76	21.70
	256QAM	1	0	19.88	19.87	19.84
		1	2	19.78	19.98	19.88
		1	5	19.85	20.02	19.85
		3	0	19.75	19.75	19.79
		3	1	19.79	19.75	19.78
		3	3	19.72	19.88	19.71
		6	0	19.83	19.71	19.75

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EIRP POWER (dBm)

LTE Band 2 (Ant0)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	18700	1860	24.83	-0.5	24.33	271.02	2
	18900	1880	24.86	-0.5	24.36	272.90	2
	19100	1900	24.82	-0.5	24.32	270.40	2
20M- 16QAM	18700	1860	24.05	-0.5	23.55	226.46	2
	18900	1880	24.16	-0.5	23.66	232.27	2
	19100	1900	24.00	-0.5	23.50	223.87	2
20M- 64QAM	18700	1860	23.20	-0.5	22.70	186.21	2
	18900	1880	23.19	-0.5	22.69	185.78	2
	19100	1900	23.35	-0.5	22.85	192.75	2
20M- 256QAM	18700	1860	20.07	-0.5	19.57	90.57	2
	18900	1880	20.13	-0.5	19.63	91.83	2
	19100	1900	19.90	-0.5	19.40	87.10	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	18675	1857.5	24.70	-0.5	24.20	263.03	2
	18900	1880	24.77	-0.5	24.27	267.30	2
	19125	1902.5	24.80	-0.5	24.30	269.15	2
15M- 16QAM	18675	1857.5	23.95	-0.5	23.45	221.31	2
	18900	1880	24.34	-0.5	23.84	242.10	2
	19125	1902.5	23.96	-0.5	23.46	221.82	2
15M- 64QAM	18675	1857.5	23.11	-0.5	22.61	182.39	2
	18900	1880	23.13	-0.5	22.63	183.23	2
	19125	1902.5	23.20	-0.5	22.70	186.21	2
15M- 256QAM	18675	1857.5	19.95	-0.5	19.45	88.10	2
	18900	1880	20.01	-0.5	19.51	89.33	2
	19125	1902.5	19.85	-0.5	19.35	86.10	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	18650	1855	24.82	-0.5	24.32	270.40	2
	18900	1880	24.76	-0.5	24.26	266.69	2
	19150	1905	24.75	-0.5	24.25	266.07	2
10M- 16QAM	18650	1855	24.02	-0.5	23.52	224.91	2
	18900	1880	24.23	-0.5	23.73	236.05	2
	19150	1905	23.92	-0.5	23.42	219.79	2
10M- 64QAM	18650	1855	23.10	-0.5	22.60	181.97	2
	18900	1880	23.11	-0.5	22.61	182.39	2
	19150	1905	23.31	-0.5	22.81	190.99	2

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10M-256QAM	18650	1855	20.04	-0.5	19.54	89.95	2
	18900	1880	20.03	-0.5	19.53	89.74	2
	19150	1905	19.80	-0.5	19.30	85.11	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	18625	1852.5	24.72	-0.5	24.22	264.24	2
	18900	1880	24.81	-0.5	24.31	269.77	2
	19175	1907.5	24.76	-0.5	24.26	266.69	2
5M-16QAM	18625	1852.5	23.94	-0.5	23.44	220.80	2
	18900	1880	24.32	-0.5	23.82	240.99	2
	19175	1907.5	23.87	-0.5	23.37	217.27	2
5M-64QAM	18625	1852.5	23.13	-0.5	22.63	183.23	2
	18900	1880	23.10	-0.5	22.60	181.97	2
	19175	1907.5	23.21	-0.5	22.71	186.64	2
5M-256QAM	18625	1852.5	19.96	-0.5	19.46	88.31	2
	18900	1880	20.10	-0.5	19.60	91.20	2
	19175	1907.5	19.83	-0.5	19.33	85.70	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	18615	1851.5	24.69	-0.5	24.19	262.42	2
	18900	1880	24.79	-0.5	24.29	268.53	2
	19185	1908.5	24.78	-0.5	24.28	267.92	2
3M-16QAM	18615	1851.5	24.02	-0.5	23.52	224.91	2
	18900	1880	24.31	-0.5	23.81	240.44	2
	19185	1908.5	23.85	-0.5	23.35	216.27	2
3M-64QAM	18615	1851.5	23.18	-0.5	22.68	185.35	2
	18900	1880	23.18	-0.5	22.68	185.35	2
	19185	1908.5	23.23	-0.5	22.73	187.50	2
3M-256QAM	18615	1851.5	20.02	-0.5	19.52	89.54	2
	18900	1880	20.00	-0.5	19.50	89.13	2
	19185	1908.5	19.86	-0.5	19.36	86.30	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M-QPSK	18607	1850.7	24.85	-0.5	24.35	272.27	2
	18900	1880	24.84	-0.5	24.34	271.64	2
	19193	1909.3	24.74	-0.5	24.24	265.46	2
1.4M-16QAM	18607	1850.7	24.03	-0.5	23.53	225.42	2
	18900	1880	24.21	-0.5	23.71	234.96	2
	19193	1909.3	23.90	-0.5	23.40	218.78	2
1.4M-64QAM	18607	1850.7	23.17	-0.5	22.67	184.93	2
	18900	1880	23.14	-0.5	22.64	183.65	2

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	19193	1909.3	23.33	-0.5	22.83	191.87	2
1.4M-256QAM	18607	1850.7	19.95	-0.5	19.45	88.10	2
	18900	1880	20.05	-0.5	19.55	90.16	2
	19193	1909.3	19.98	-0.5	19.48	88.72	2

LTE Band 2 (Ant2)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	18700	1860	24.78	-2.64	22.14	163.68	2
	18900	1880	24.81	-2.64	22.17	164.82	2
	19100	1900	24.85	-2.64	22.21	166.34	2
20M-16QAM	18700	1860	24.03	-2.64	21.39	137.72	2
	18900	1880	24.08	-2.64	21.44	139.32	2
	19100	1900	24.08	-2.64	21.44	139.32	2
20M-64QAM	18700	1860	22.95	-2.64	20.31	107.40	2
	18900	1880	22.98	-2.64	20.34	108.14	2
	19100	1900	22.99	-2.64	20.35	108.39	2
20M-256QAM	18700	1860	19.93	-2.64	17.29	53.58	2
	18900	1880	20.03	-2.64	17.39	54.83	2
	19100	1900	19.99	-2.64	17.35	54.33	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	18675	1857.5	24.77	-2.64	22.13	163.31	2
	18900	1880	24.76	-2.64	22.12	162.93	2
	19125	1902.5	24.80	-2.64	22.16	164.44	2
15M-16QAM	18675	1857.5	23.99	-2.64	21.35	136.46	2
	18900	1880	24.02	-2.64	21.38	137.40	2
	19125	1902.5	24.05	-2.64	21.41	138.36	2
15M-64QAM	18675	1857.5	22.91	-2.64	20.27	106.41	2
	18900	1880	22.92	-2.64	20.28	106.66	2
	19125	1902.5	22.89	-2.64	20.25	105.93	2
15M-256QAM	18675	1857.5	19.86	-2.64	17.22	52.72	2
	18900	1880	19.99	-2.64	17.35	54.33	2
	19125	1902.5	19.92	-2.64	17.28	53.46	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	18650	1855	24.70	-2.64	22.06	160.69	2
	18900	1880	24.75	-2.64	22.11	162.55	2
	19150	1905	24.80	-2.64	22.16	164.44	2
10M-16QAM	18650	1855	23.95	-2.64	21.31	135.21	2
	18900	1880	24.02	-2.64	21.38	137.40	2

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	19150	1905	24.02	-2.64	21.38	137.40	2
10M-64QAM	18650	1855	22.84	-2.64	20.20	104.71	2
	18900	1880	22.92	-2.64	20.28	106.66	2
	19150	1905	22.88	-2.64	20.24	105.68	2
10M-256QAM	18650	1855	19.86	-2.64	17.22	52.72	2
	18900	1880	19.94	-2.64	17.30	53.70	2
	19150	1905	19.97	-2.64	17.33	54.08	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	18625	1852.5	24.70	-2.64	22.06	160.69	2
	18900	1880	24.79	-2.64	22.15	164.06	2
	19175	1907.5	24.80	-2.64	22.16	164.44	2
5M-16QAM	18625	1852.5	23.99	-2.64	21.35	136.46	2
	18900	1880	24.05	-2.64	21.41	138.36	2
	19175	1907.5	24.01	-2.64	21.37	137.09	2
5M-64QAM	18625	1852.5	22.93	-2.64	20.29	106.91	2
	18900	1880	22.91	-2.64	20.27	106.41	2
	19175	1907.5	22.92	-2.64	20.28	106.66	2
5M-256QAM	18625	1852.5	19.84	-2.64	17.20	52.48	2
	18900	1880	20.02	-2.64	17.38	54.70	2
	19175	1907.5	19.90	-2.64	17.26	53.21	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	18615	1851.5	24.67	-2.64	22.03	159.59	2
	18900	1880	24.80	-2.64	22.16	164.44	2
	19185	1908.5	24.78	-2.64	22.14	163.68	2
3M-16QAM	18615	1851.5	23.90	-2.64	21.26	133.66	2
	18900	1880	24.04	-2.64	21.40	138.04	2
	19185	1908.5	24.05	-2.64	21.41	138.36	2
3M-64QAM	18615	1851.5	22.89	-2.64	20.25	105.93	2
	18900	1880	22.97	-2.64	20.33	107.89	2
	19185	1908.5	22.93	-2.64	20.29	106.91	2
3M-256QAM	18615	1851.5	19.85	-2.64	17.21	52.60	2
	18900	1880	19.93	-2.64	17.29	53.58	2
	19185	1908.5	19.88	-2.64	17.24	52.97	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M-QPSK	18607	1850.7	24.66	-2.64	22.02	159.22	2
	18900	1880	24.75	-2.64	22.11	162.55	2
	19193	1909.3	24.73	-2.64	22.09	161.81	2
	18607	1850.7	24.00	-2.64	21.36	136.77	2

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1.4M-16QAM	18900	1880	24.05	-2.64	21.41	138.36	2
	19193	1909.3	24.04	-2.64	21.40	138.04	2
1.4M-64QAM	18607	1850.7	22.89	-2.64	20.25	105.93	2
	18900	1880	22.87	-2.64	20.23	105.44	2
	19193	1909.3	22.92	-2.64	20.28	106.66	2
1.4M-256QAM	18607	1850.7	19.86	-2.64	17.22	52.72	2
	18900	1880	19.94	-2.64	17.30	53.70	2
	19193	1909.3	19.94	-2.64	17.30	53.70	2

LTE Band 25 (Ant0)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	26140	1860	25.20	-0.55	24.65	291.74	2
	26365	1882.5	25.13	-0.55	24.58	287.08	2
	26590	1905	24.51	-0.55	23.96	248.89	2
20M-16QAM	26140	1860	24.41	-0.55	23.86	243.22	2
	26365	1882.5	24.39	-0.55	23.84	242.10	2
	26590	1905	23.65	-0.55	23.10	204.17	2
20M-64QAM	26140	1860	23.19	-0.55	22.64	183.65	2
	26365	1882.5	23.24	-0.55	22.69	185.78	2
	26590	1905	23.01	-0.55	22.46	176.20	2
20M-256QAM	26140	1860	20.16	-0.55	19.61	91.41	2
	26365	1882.5	20.06	-0.55	19.51	89.33	2
	26590	1905	20.02	-0.55	19.47	88.51	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	26115	1857.5	25.08	-0.55	24.53	283.79	2
	26365	1882.5	25.00	-0.55	24.45	278.61	2
	26615	1907.5	24.48	-0.55	23.93	247.17	2
15M-16QAM	26115	1857.5	24.40	-0.55	23.85	242.66	2
	26365	1882.5	24.38	-0.55	23.83	241.55	2
	26615	1907.5	23.64	-0.55	23.09	203.70	2
15M-64QAM	26115	1857.5	23.16	-0.55	22.61	182.39	2
	26365	1882.5	23.23	-0.55	22.68	185.35	2
	26615	1907.5	22.88	-0.55	22.33	171.00	2
15M-256QAM	26115	1857.5	20.13	-0.55	19.58	90.78	2
	26365	1882.5	20.04	-0.55	19.49	88.92	2
	26615	1907.5	19.97	-0.55	19.42	87.50	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	26090	1855	25.16	-0.55	24.61	289.07	2

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	26365	1882.5	25.07	-0.55	24.52	283.14	2
	26640	1910	24.38	-0.55	23.83	241.55	2
10M-16QAM	26090	1855	24.28	-0.55	23.73	236.05	2
	26365	1882.5	24.28	-0.55	23.73	236.05	2
	26640	1910	23.63	-0.55	23.08	203.24	2
10M-64QAM	26090	1855	23.15	-0.55	22.60	181.97	2
	26365	1882.5	23.21	-0.55	22.66	184.50	2
	26640	1910	22.94	-0.55	22.39	173.38	2
10M-256QAM	26090	1855	20.12	-0.55	19.57	90.57	2
	26365	1882.5	20.04	-0.55	19.49	88.92	2
	26640	1910	19.96	-0.55	19.41	87.30	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	26065	1852.5	25.09	-0.55	24.54	284.45	2
	26365	1882.5	25.12	-0.55	24.57	286.42	2
	26665	1912.5	24.44	-0.55	23.89	244.91	2
5M-16QAM	26065	1852.5	24.34	-0.55	23.79	239.33	2
	26365	1882.5	24.32	-0.55	23.77	238.23	2
	26665	1912.5	23.58	-0.55	23.03	200.91	2
5M-64QAM	26065	1852.5	23.18	-0.55	22.63	183.23	2
	26365	1882.5	23.21	-0.55	22.66	184.50	2
	26665	1912.5	22.86	-0.55	22.31	170.22	2
5M-256QAM	26065	1852.5	20.13	-0.55	19.58	90.78	2
	26365	1882.5	19.94	-0.55	19.39	86.90	2
	26665	1912.5	19.95	-0.55	19.40	87.10	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	26055	1851.5	25.18	-0.55	24.63	290.40	2
	26365	1882.5	25.05	-0.55	24.50	281.84	2
	26675	1913.5	24.48	-0.55	23.93	247.17	2
3M-16QAM	26055	1851.5	24.28	-0.55	23.73	236.05	2
	26365	1882.5	24.37	-0.55	23.82	240.99	2
	26675	1913.5	23.55	-0.55	23.00	199.53	2
3M-64QAM	26055	1851.5	23.16	-0.55	22.61	182.39	2
	26365	1882.5	23.14	-0.55	22.59	181.55	2
	26675	1913.5	22.95	-0.55	22.40	173.78	2
3M-256QAM	26055	1851.5	20.10	-0.55	19.55	90.16	2
	26365	1882.5	20.05	-0.55	19.50	89.13	2
	26675	1913.5	20.00	-0.55	19.45	88.10	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)

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1.4M-QPSK	26047	1850.7	25.17	-0.55	24.62	289.73	2
	26365	1882.5	25.06	-0.55	24.51	282.49	2
	26683	1914.3	24.67	-0.55	24.12	258.23	2
1.4M-16QAM	26047	1850.7	24.36	-0.55	23.81	240.44	2
	26365	1882.5	24.29	-0.55	23.74	236.59	2
	26683	1914.3	23.61	-0.55	23.06	202.30	2
1.4M-64QAM	26047	1850.7	23.10	-0.55	22.55	179.89	2
	26365	1882.5	23.23	-0.55	22.68	185.35	2
	26683	1914.3	22.90	-0.55	22.35	171.79	2
1.4M-256QAM	26047	1850.7	20.46	-0.55	19.91	97.95	2
	26365	1882.5	20.46	-0.55	19.91	97.95	2
	26683	1914.3	20.41	-0.55	19.86	96.83	2

LTE Band 25 (Ant2)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	26140	1860	24.76	-2.64	22.12	162.93	2
	26365	1882.5	24.82	-2.64	22.18	165.20	2
	26590	1905	24.85	-2.64	22.21	166.34	2
20M-16QAM	26140	1860	23.95	-2.64	21.31	135.21	2
	26365	1882.5	23.98	-2.64	21.34	136.14	2
	26590	1905	23.96	-2.64	21.32	135.52	2
20M-64QAM	26140	1860	23.01	-2.64	20.37	108.89	2
	26365	1882.5	23.08	-2.64	20.44	110.66	2
	26590	1905	23.10	-2.64	20.46	111.17	2
20M-256QAM	26140	1860	19.93	-2.64	17.29	53.58	2
	26365	1882.5	20.06	-2.64	17.42	55.21	2
	26590	1905	19.98	-2.64	17.34	54.20	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	26115	1857.5	24.69	-2.64	22.05	160.32	2
	26365	1882.5	24.69	-2.64	22.05	160.32	2
	26615	1907.5	24.72	-2.64	22.08	161.44	2
15M-16QAM	26115	1857.5	23.90	-2.64	21.26	133.66	2
	26365	1882.5	23.90	-2.64	21.26	133.66	2
	26615	1907.5	23.91	-2.64	21.27	133.97	2
15M-64QAM	26115	1857.5	22.93	-2.64	20.29	106.91	2
	26365	1882.5	23.02	-2.64	20.38	109.14	2
	26615	1907.5	23.03	-2.64	20.39	109.40	2
15M-256QAM	26115	1857.5	19.92	-2.64	17.28	53.46	2
	26365	1882.5	19.95	-2.64	17.31	53.83	2

BOOMWAVE TEST (SHENZHEN)
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	26615	1907.5	19.95	-2.64	17.31	53.83	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	26090	1855	24.73	-2.64	22.09	161.81	2
	26365	1882.5	24.68	-2.64	22.04	159.96	2
	26640	1910	24.82	-2.64	22.18	165.20	2
10M-16QAM	26090	1855	23.87	-2.64	21.23	132.74	2
	26365	1882.5	23.97	-2.64	21.33	135.83	2
	26640	1910	23.94	-2.64	21.30	134.90	2
10M-64QAM	26090	1855	22.99	-2.64	20.35	108.39	2
	26365	1882.5	22.97	-2.64	20.33	107.89	2
	26640	1910	23.05	-2.64	20.41	109.90	2
10M-256QAM	26090	1855	19.90	-2.64	17.26	53.21	2
	26365	1882.5	20.03	-2.64	17.39	54.83	2
	26640	1910	19.91	-2.64	17.27	53.33	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	26065	1852.5	24.64	-2.64	22.00	158.49	2
	26365	1882.5	24.79	-2.64	22.15	164.06	2
	26665	1912.5	24.75	-2.64	22.11	162.55	2
5M-16QAM	26065	1852.5	23.91	-2.64	21.27	133.97	2
	26365	1882.5	23.91	-2.64	21.27	133.97	2
	26665	1912.5	23.91	-2.64	21.27	133.97	2
5M-64QAM	26065	1852.5	22.94	-2.64	20.30	107.15	2
	26365	1882.5	22.98	-2.64	20.34	108.14	2
	26665	1912.5	23.01	-2.64	20.37	108.89	2
5M-256QAM	26065	1852.5	19.88	-2.64	17.24	52.97	2
	26365	1882.5	19.94	-2.64	17.30	53.70	2
	26665	1912.5	19.90	-2.64	17.26	53.21	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	26055	1851.5	24.64	-2.64	22.00	158.49	2
	26365	1882.5	24.72	-2.64	22.08	161.44	2
	26675	1913.5	24.77	-2.64	22.13	163.31	2
3M-16QAM	26055	1851.5	23.87	-2.64	21.23	132.74	2
	26365	1882.5	23.94	-2.64	21.30	134.90	2
	26675	1913.5	23.95	-2.64	21.31	135.21	2
3M-64QAM	26055	1851.5	22.94	-2.64	20.30	107.15	2
	26365	1882.5	22.98	-2.64	20.34	108.14	2
	26675	1913.5	23.04	-2.64	20.40	109.65	2
	26055	1851.5	19.88	-2.64	17.24	52.97	2

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3M-256QAM	26365	1882.5	20.02	-2.64	17.38	54.70	2
	26675	1913.5	19.86	-2.64	17.22	52.72	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M-QPSK	26047	1850.7	24.64	-2.64	22.00	158.49	2
	26365	1882.5	24.81	-2.64	22.17	164.82	2
	26683	1914.3	24.82	-2.64	22.18	165.20	2
1.4M-16QAM	26047	1850.7	23.93	-2.64	21.29	134.59	2
	26365	1882.5	23.89	-2.64	21.25	133.35	2
	26683	1914.3	23.93	-2.64	21.29	134.59	2
1.4M-64QAM	26047	1850.7	22.99	-2.64	20.35	108.39	2
	26365	1882.5	22.99	-2.64	20.35	108.39	2
	26683	1914.3	22.98	-2.64	20.34	108.14	2
1.4M-256QAM	26047	1850.7	19.88	-2.64	17.24	52.97	2
	26365	1882.5	20.02	-2.64	17.38	54.70	2
	26683	1914.3	19.88	-2.64	17.24	52.97	2

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

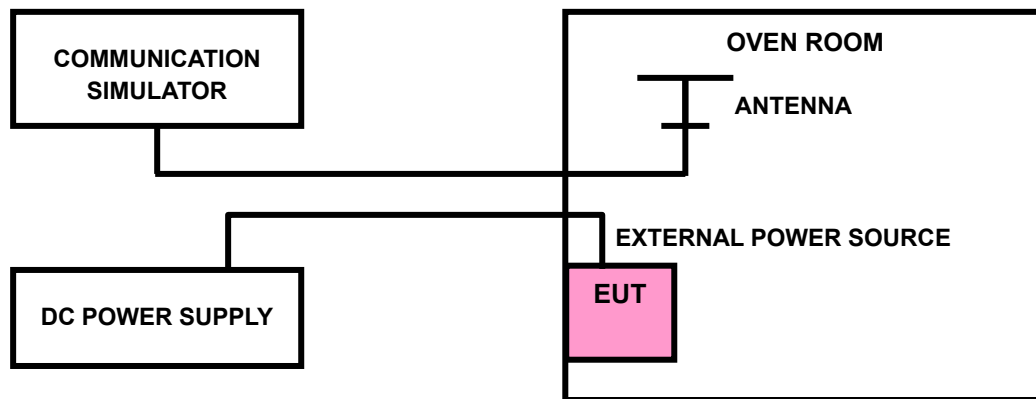
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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.

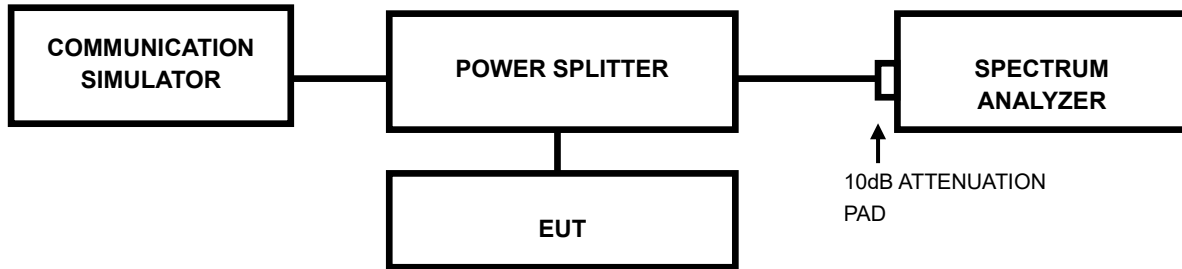
Note: VL = Low voltage(3.4V); VN/NV = Normal voltage(3.7V); VH = High voltage(4.2V); NT = Normal temperature (25°C)

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

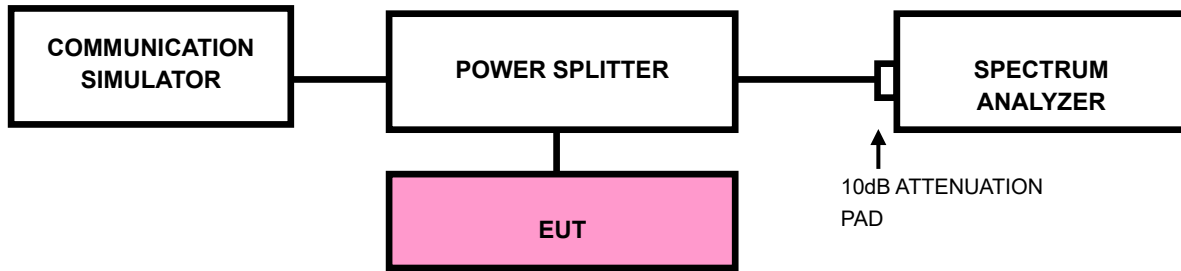
Please Refer to Appendix of this test report.

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

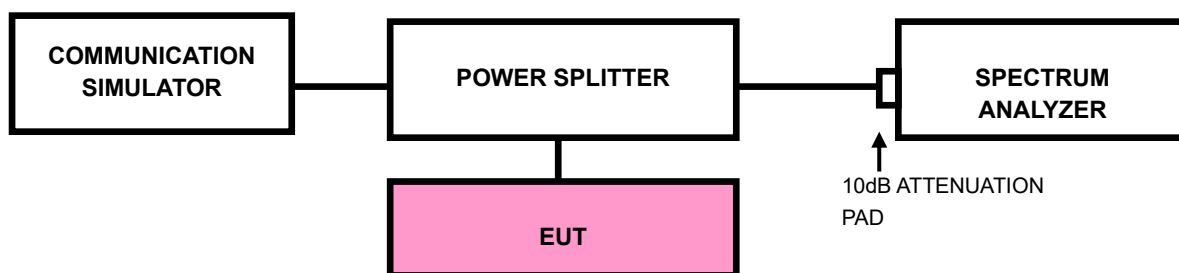
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

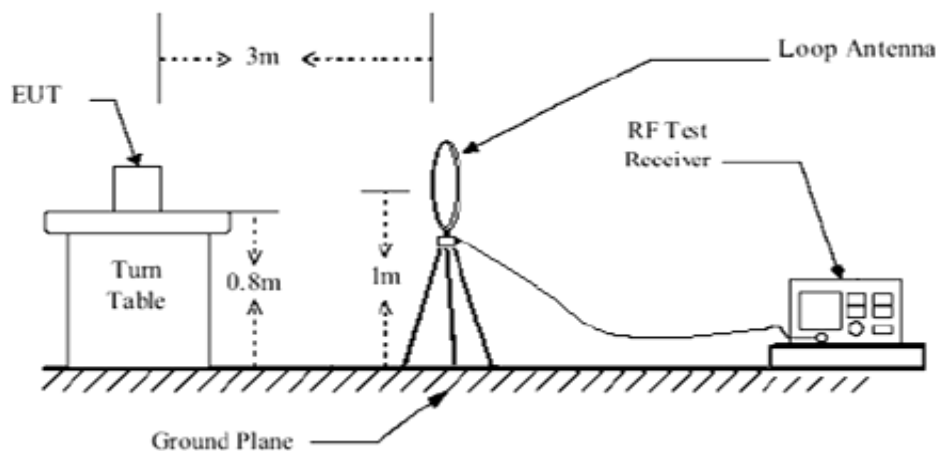
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.6.3 DEVIATION FROM TEST STANDARD

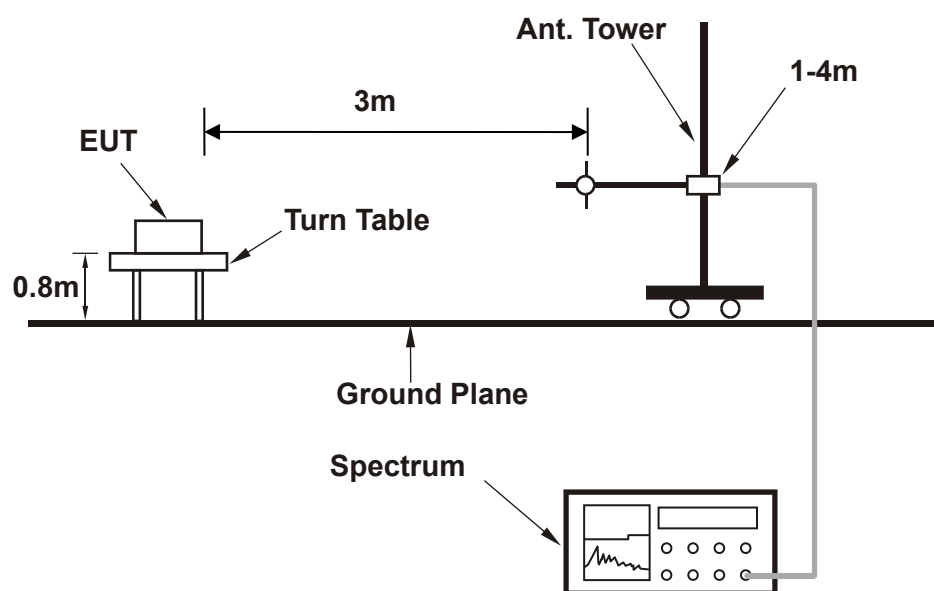
No deviation

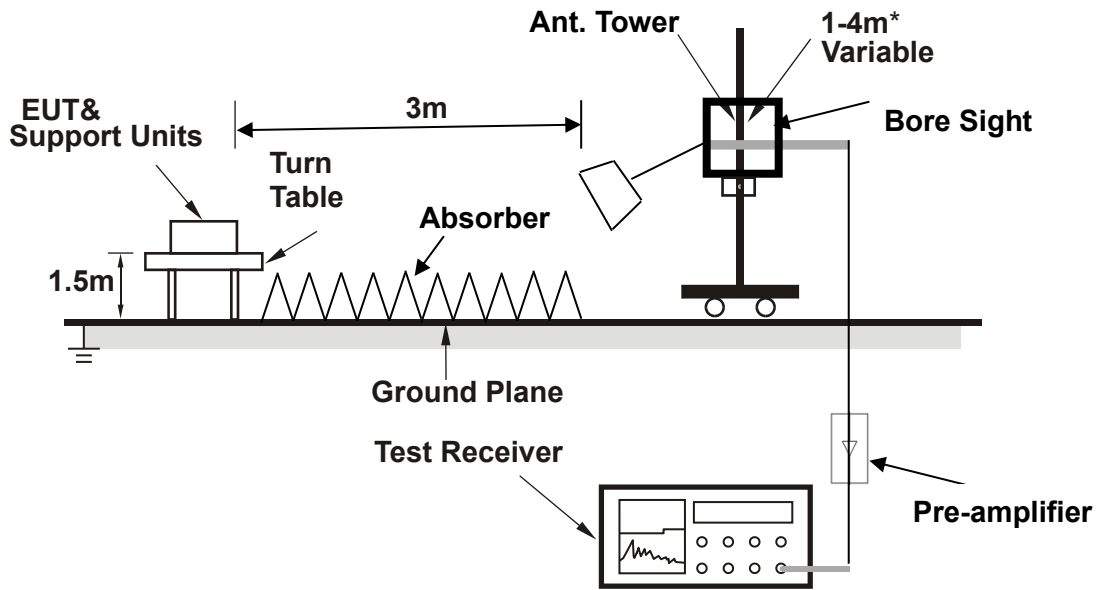
3.6.4 TEST SETUP

< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >





Note: Above 1G is a directional antenna

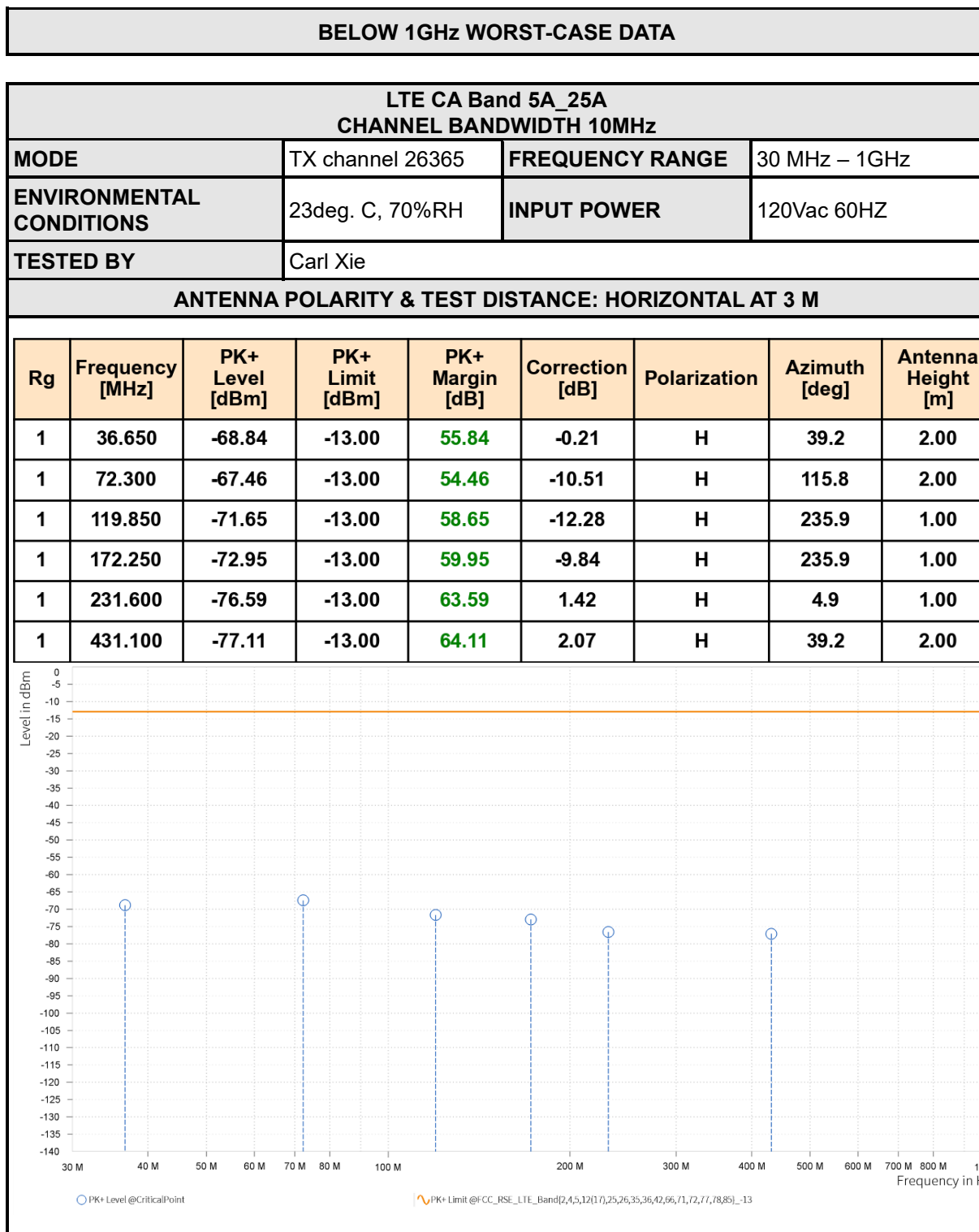
Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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

Test Report No.: RF260714B007

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.

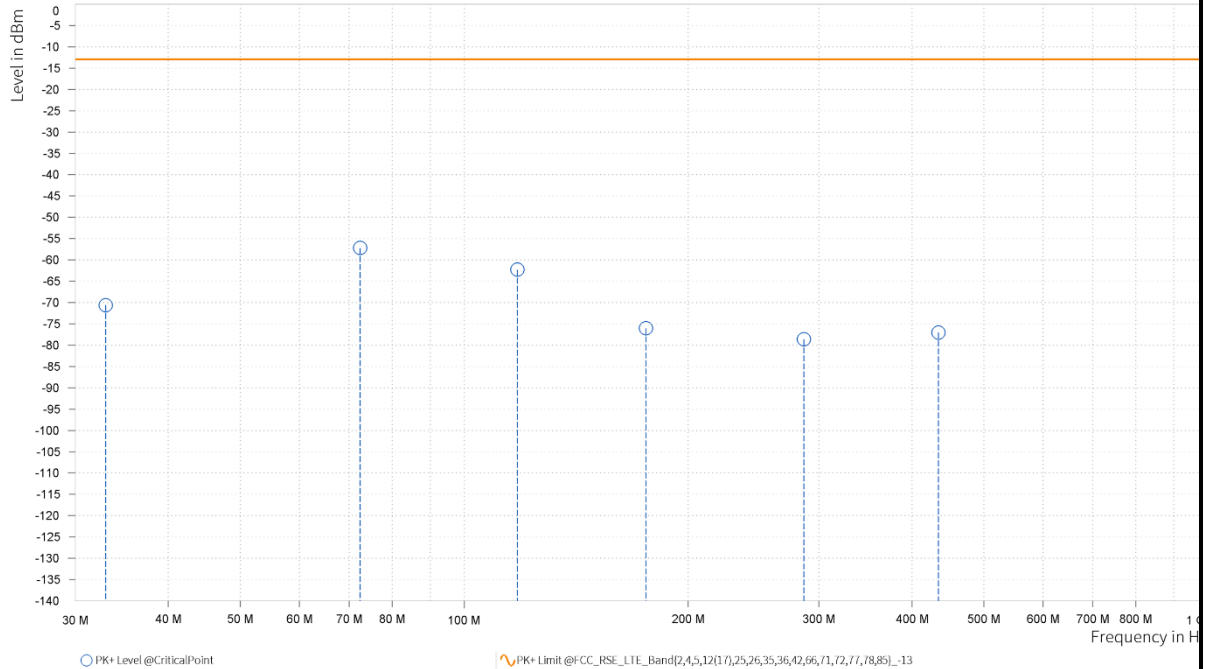


Test Report No.: RF260714B007

MODE	TX channel 26365	FREQUENCY RANGE	30 MHz – 1GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		

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]
1	32.950	-70.62	-13.00	57.62	-6.42	V	359.1	1.00
1	72.450	-57.21	-13.00	44.21	-8.65	V	355.1	2.00
1	117.950	-62.26	-13.00	49.26	-2.81	V	1	1.00
1	175.500	-76.04	-13.00	63.04	-9.30	V	5.5	1.00
1	286.400	-78.62	-13.00	65.62	-1.03	V	105	2.00
1	434.050	-77.02	-13.00	64.02	1.25	V	105	2.00



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ABOVE 1GHz DATA

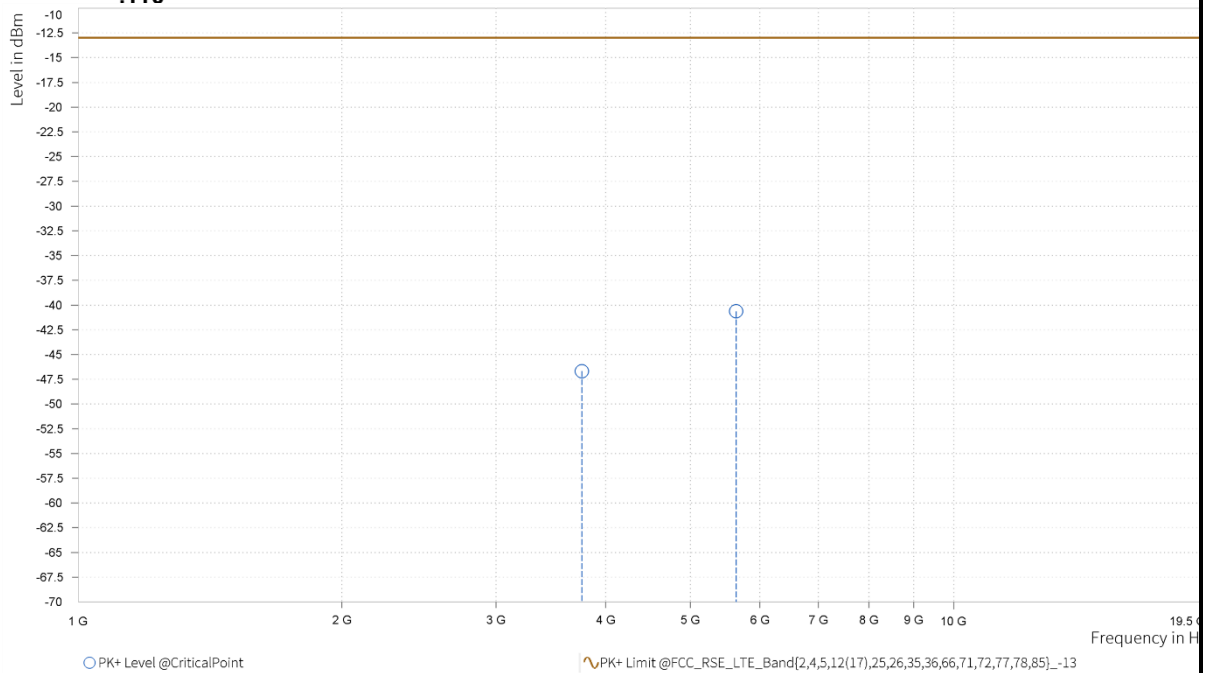
Note: For higher frequency, the emission is too low to be detected.

LTE Band 25-ANT0

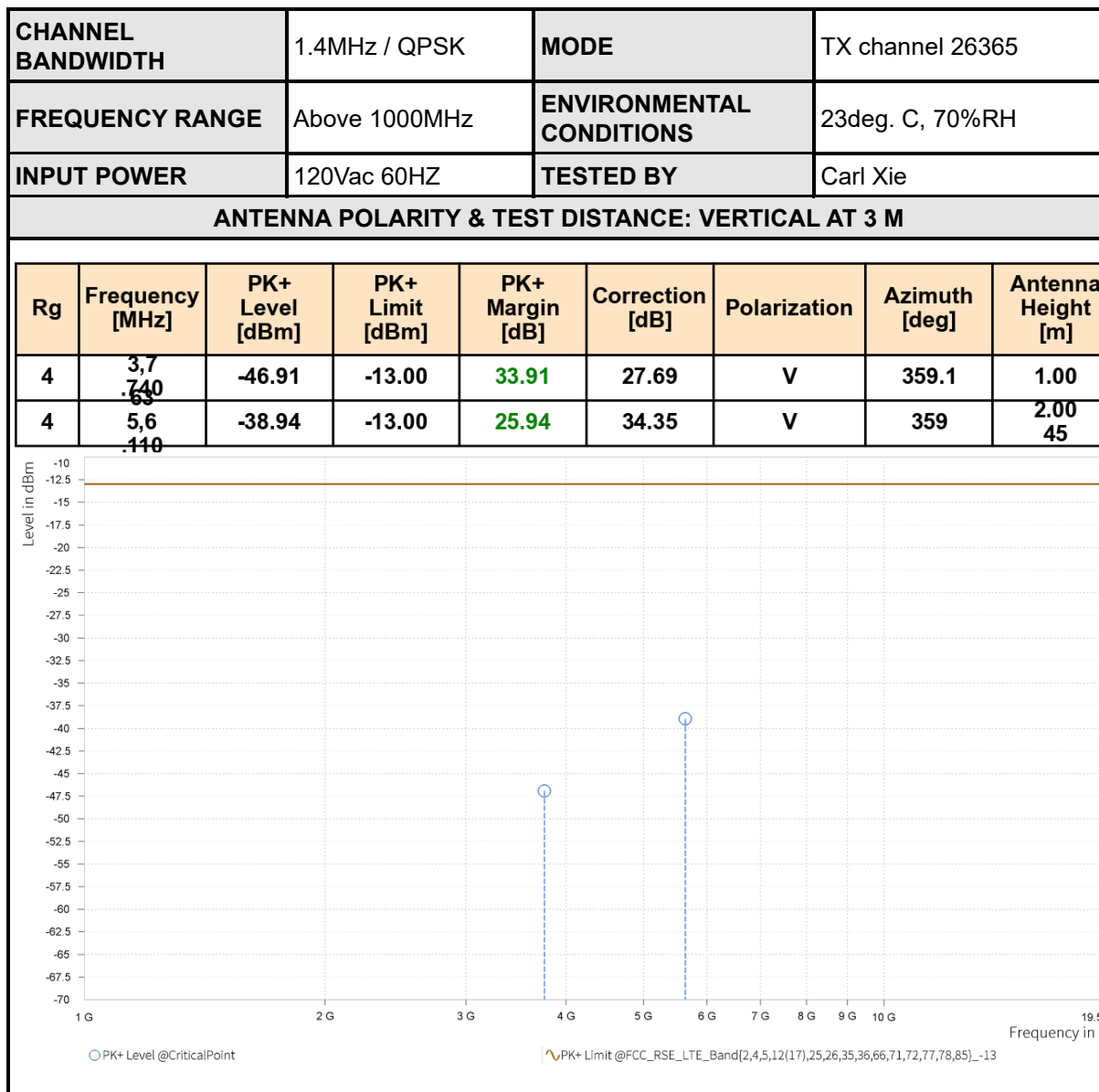
CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

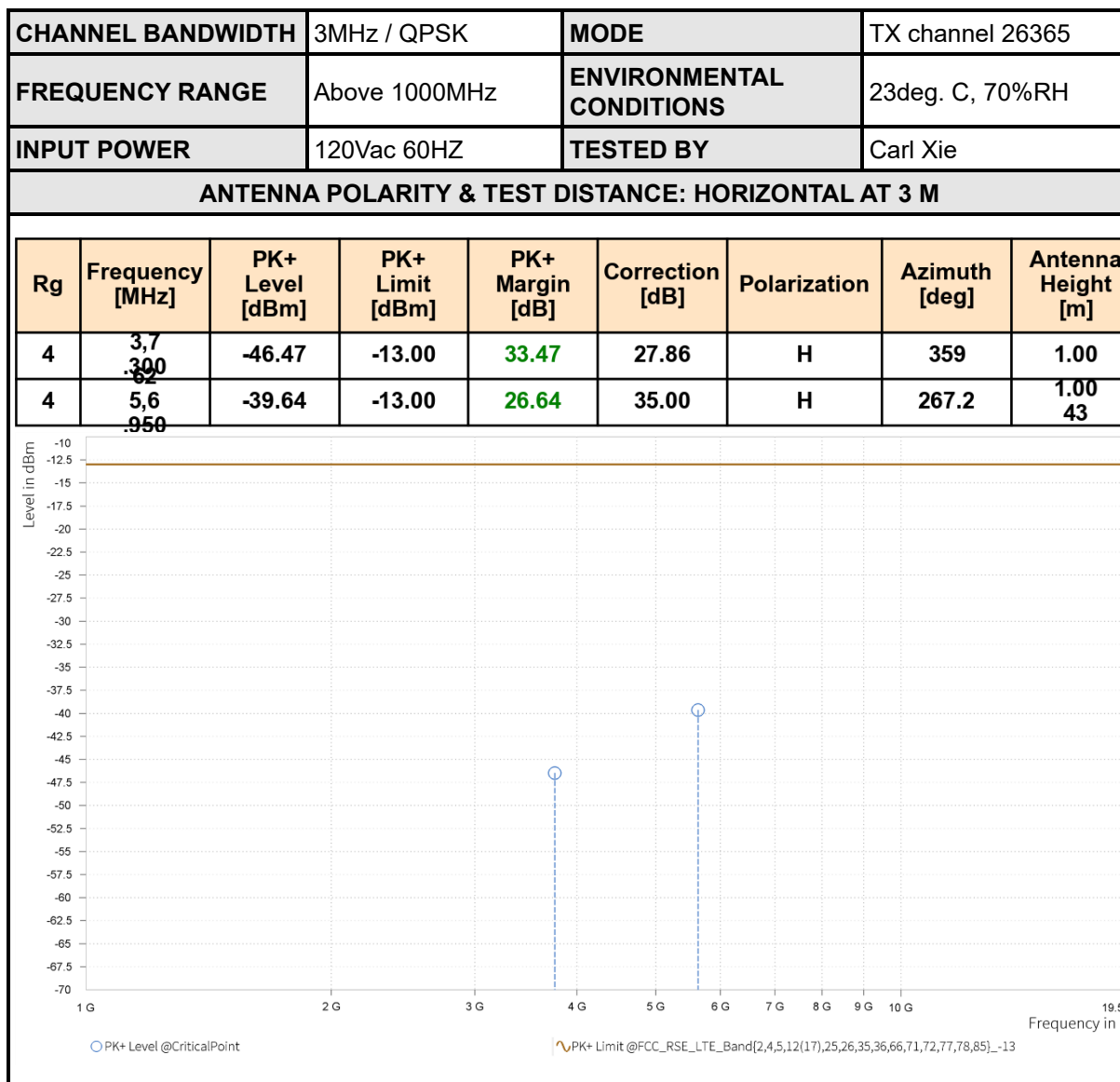
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,740.63	-46.67	-13.00	33.67	28.00	H	359.1	1.00
4	5,611.0	-40.64	-13.00	27.64	34.62	H	1	1.00



Test Report No.: RF260714B007



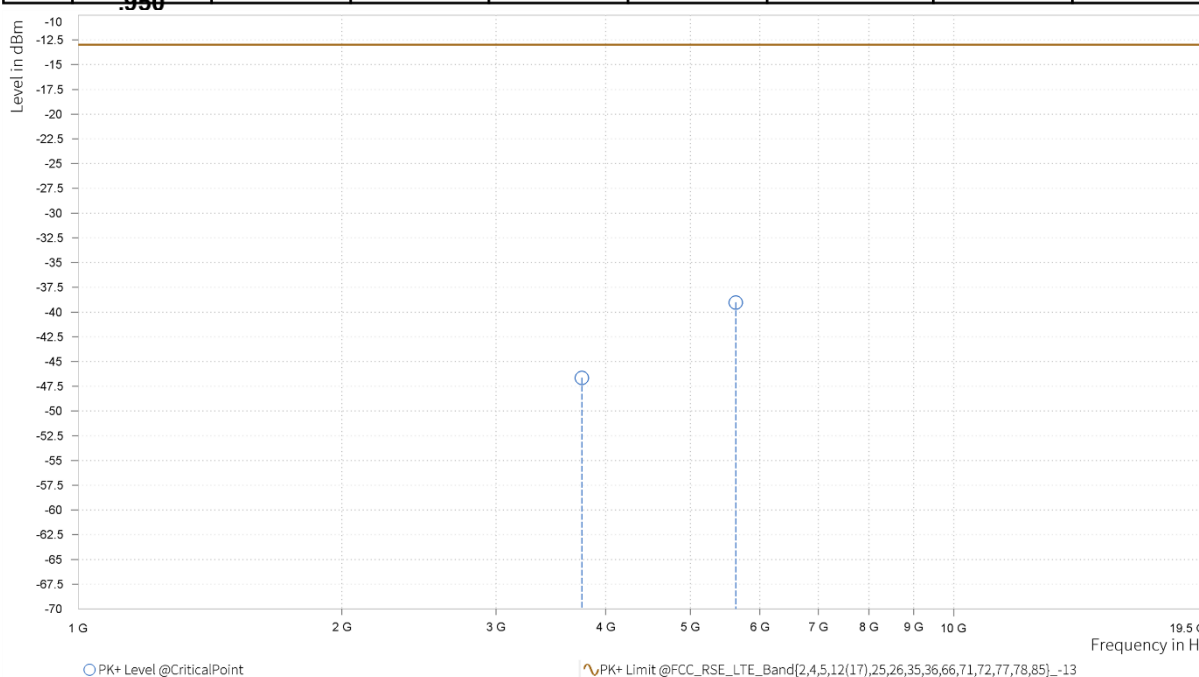


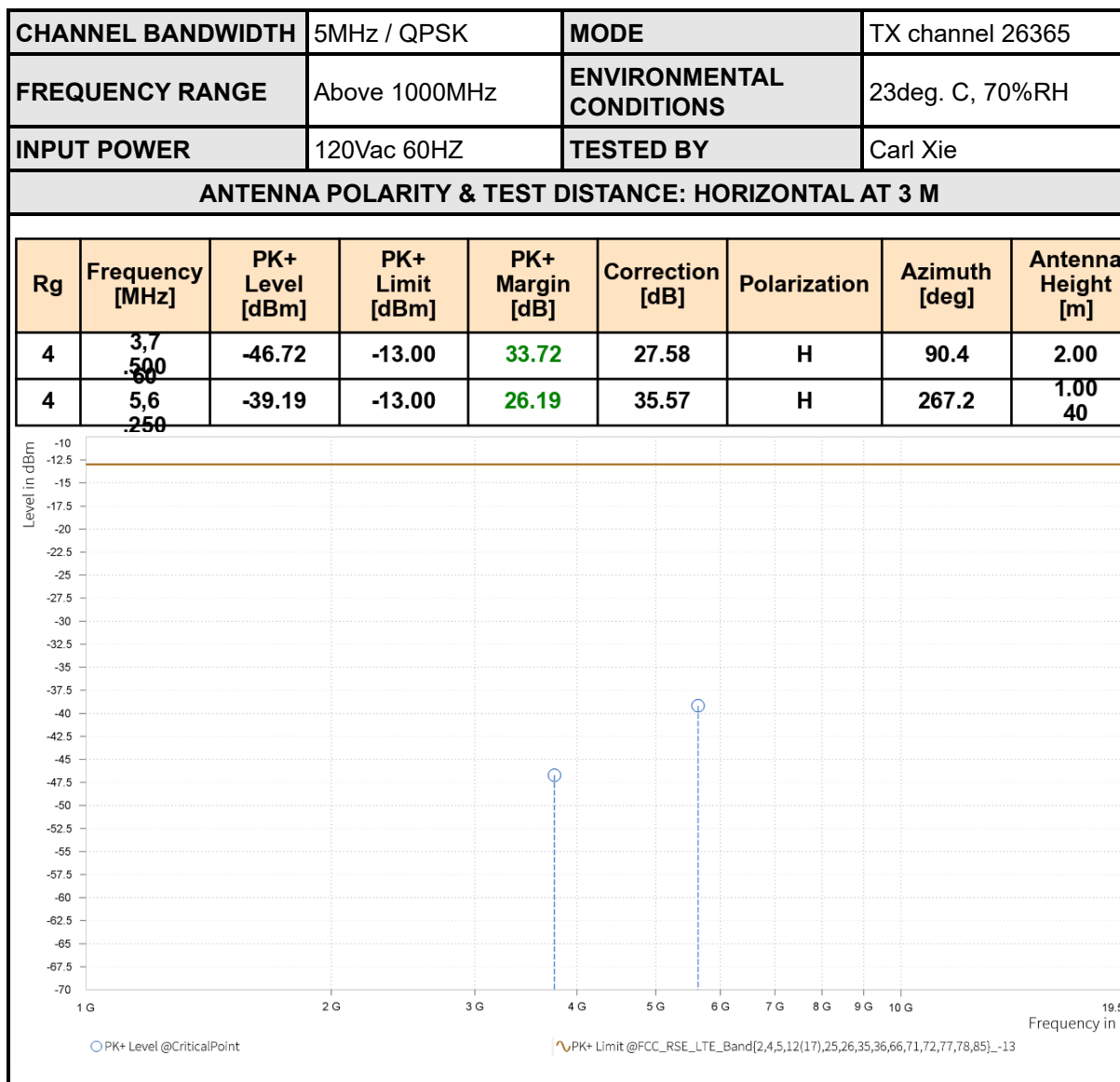
Test Report No.: RF260714B007

CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
4	3,700.950	-46.64	-13.00	33.64	27.55	V	359	1.00
4	5,643.200	-39.03	-13.00	26.03	34.73	V	80.8	2.00



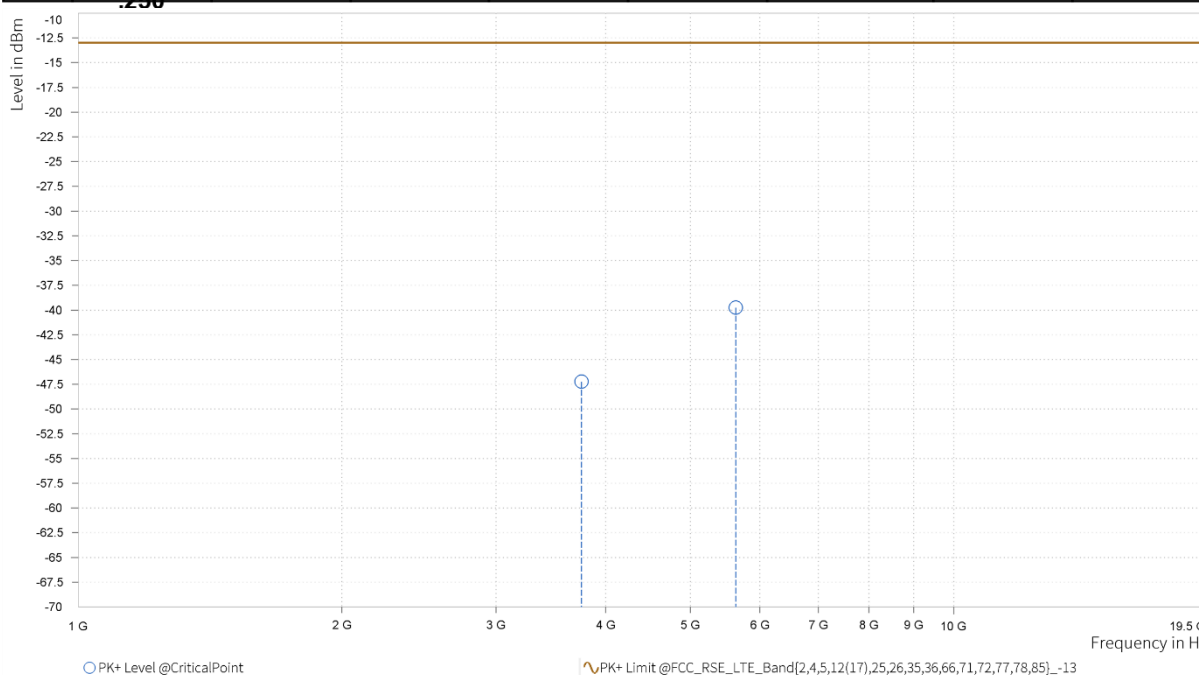


Test Report No.: RF260714B007

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

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]
4	3,750	-47.24	-13.00	34.24	27.28	V	359	2.00
4	5,625	-39.75	-13.00	26.75	35.31	V	359	2.00

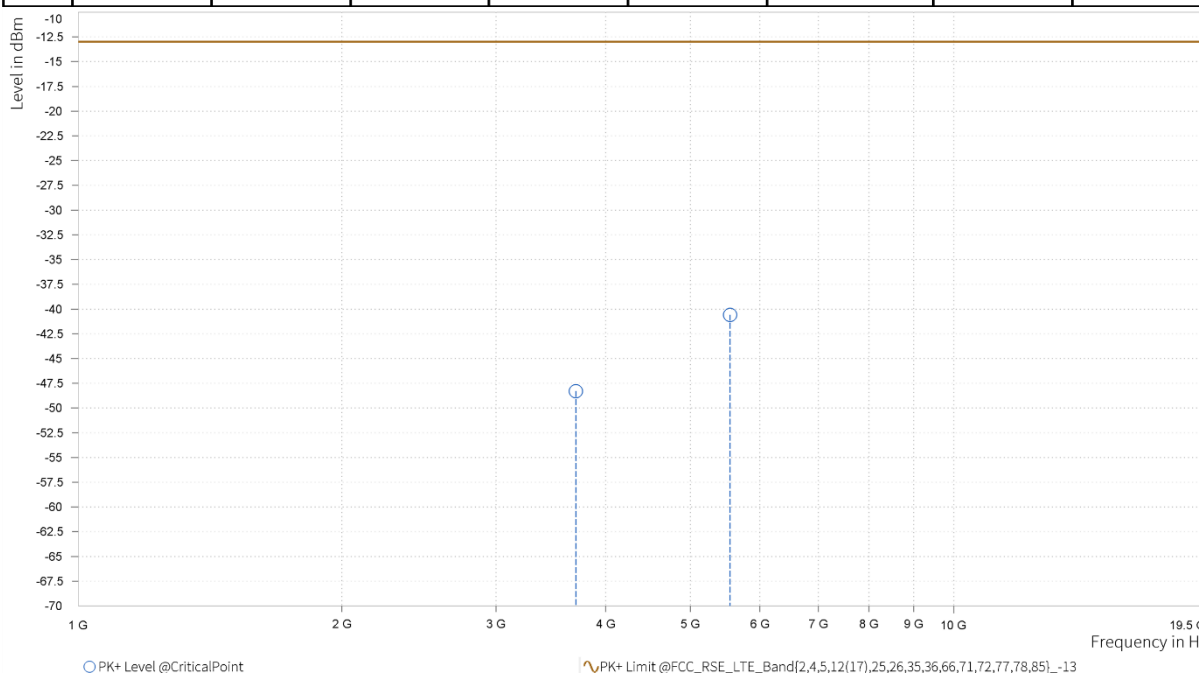


Test Report No.: RF260714B007

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

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]
4	3,701.000	-48.30	-13.00	35.30	26.35	H	268.3	1.00
4	5,551.500	-40.57	-13.00	27.57	34.57	H	0.9	2.00



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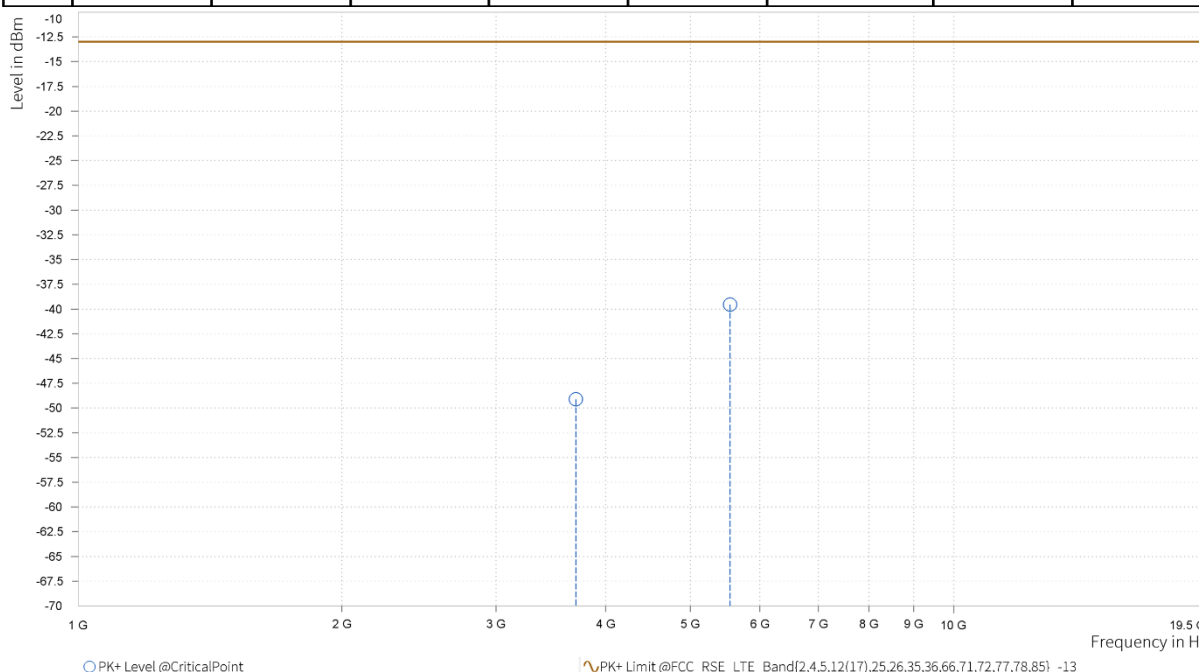
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com

Test Report No.: RF260714B007

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

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

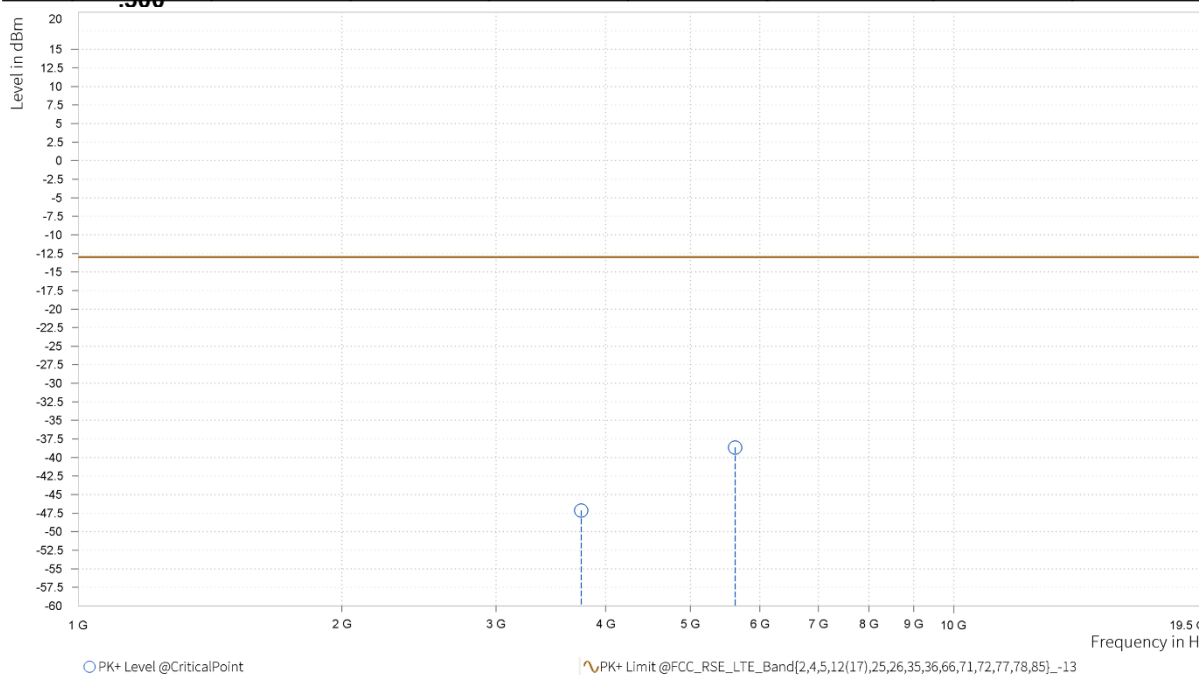
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,701.000	-49.13	-13.00	36.13	26.17	V	0.9	2.00
4	5,551.500	-39.55	-13.00	26.55	34.32	V	359.1	1.00



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

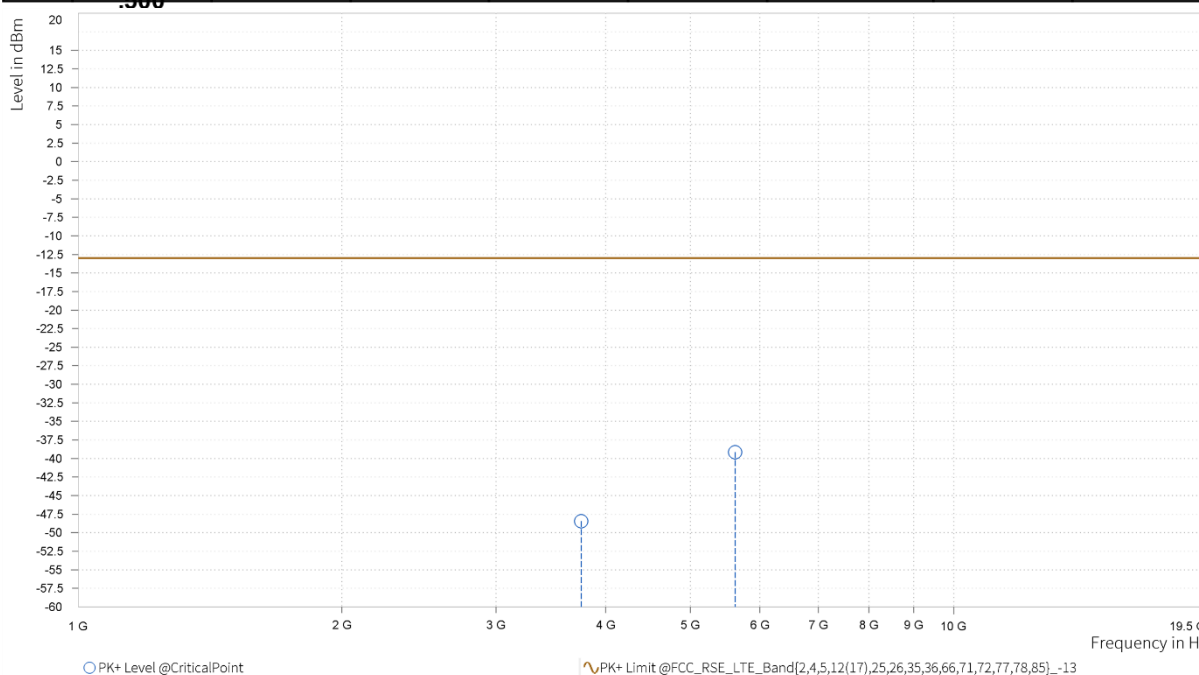
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,750.000	-47.15	-13.00	34.15	26.95	H	110.8	2.00
4	5,600.500	-38.66	-13.00	25.66	35.71	H	0.9	2.00

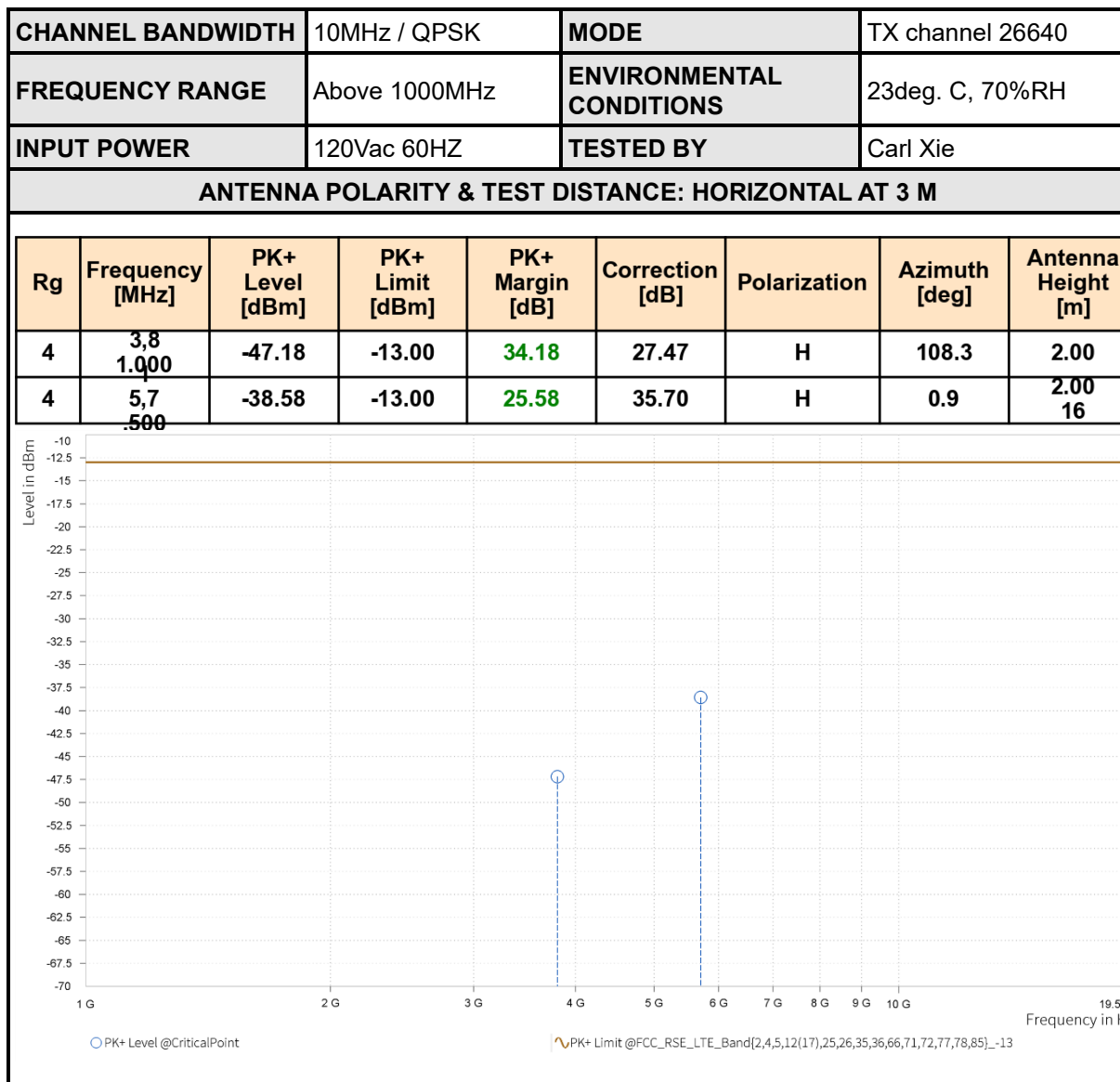


CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

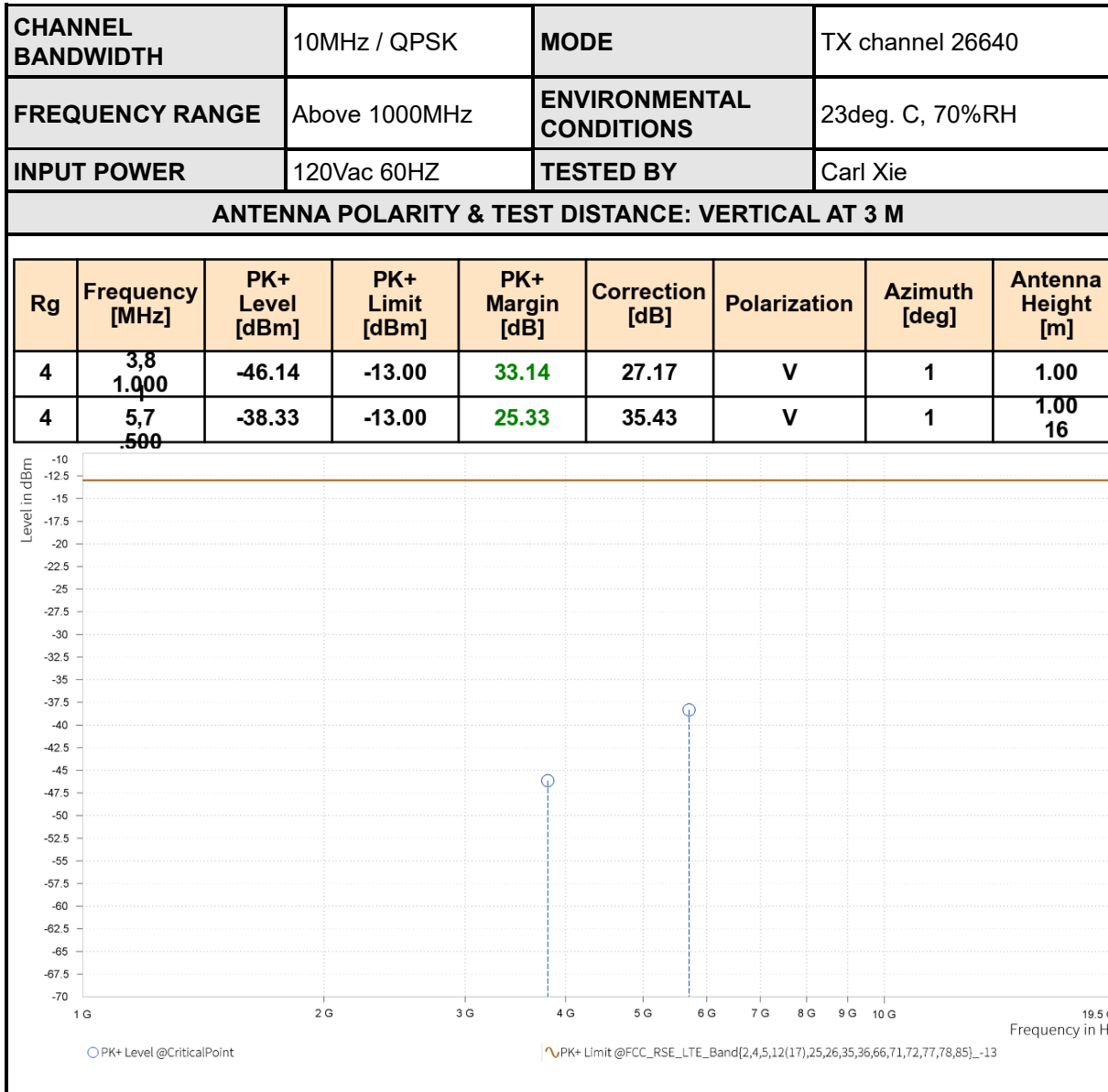
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,750.000	-48.44	-13.00	35.44	26.66	V	359	2.00
4	5,600.500	-39.15	-13.00	26.15	35.45	V	0.9	2.00





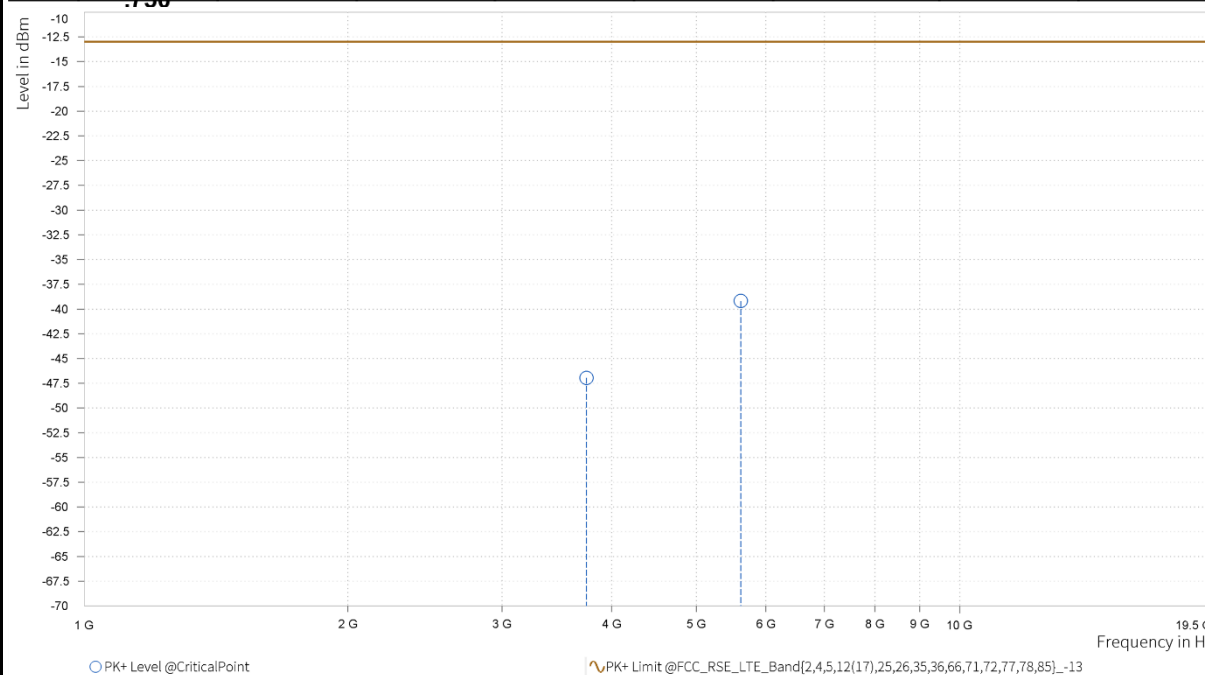
Test Report No.: RF260714B007



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

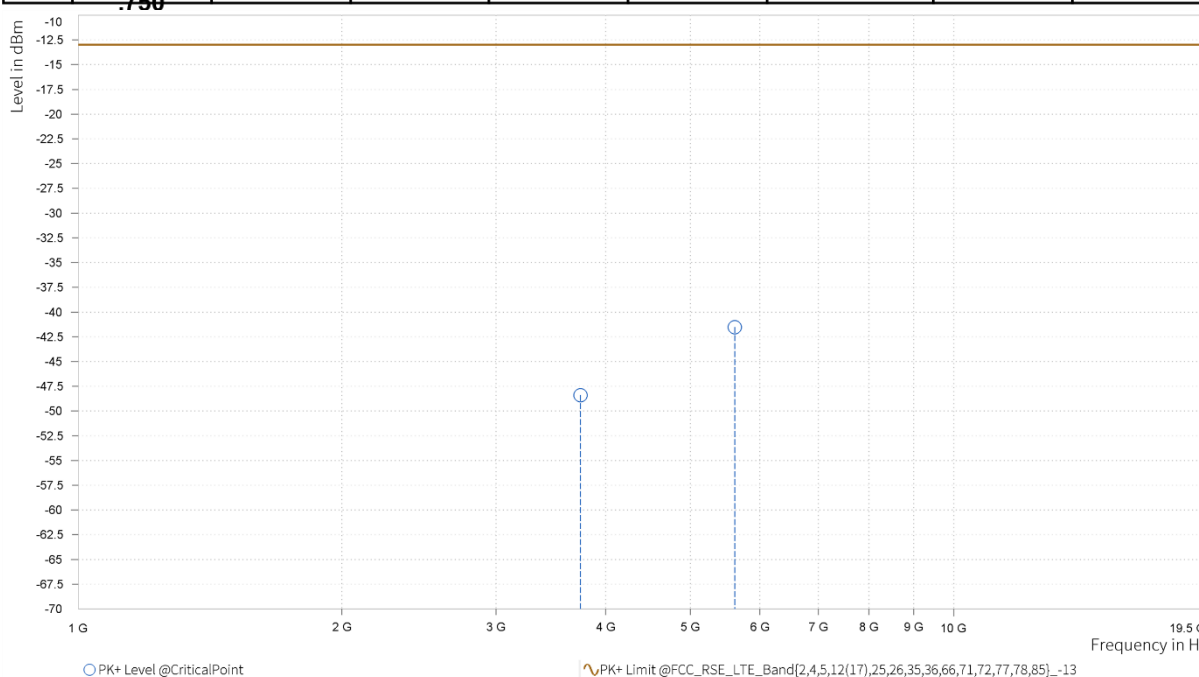
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,750	-46.95	-13.00	33.95	27.08	H	0.9	2.00
4	5,675	-39.18	-13.00	26.18	34.89	H	359	2.00



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

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

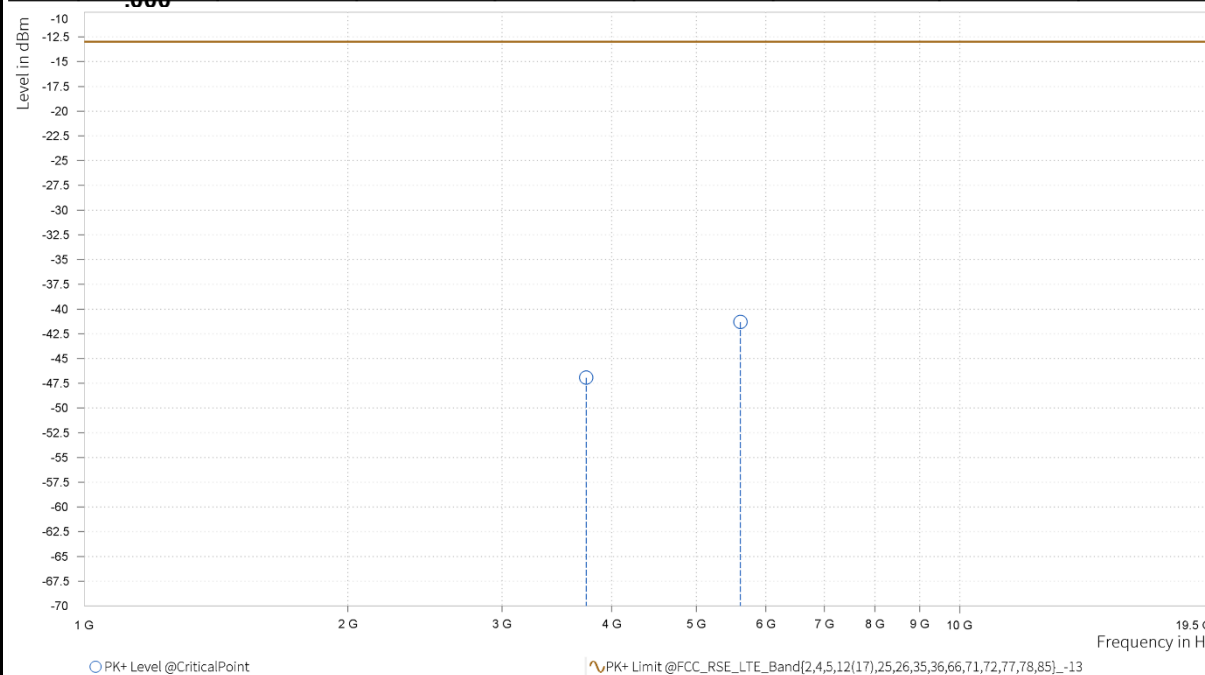
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,750	-48.39	-13.00	35.39	26.79	V	1	1.00
4	5,675	-41.53	-13.00	28.53	34.63	V	126.2	2.00



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

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]
4	3,740.000	-46.94	-13.00	33.94	27.41	H	233.8	1.00
4	5,600.000	-41.30	-13.00	28.30	34.70	H	1	1.00

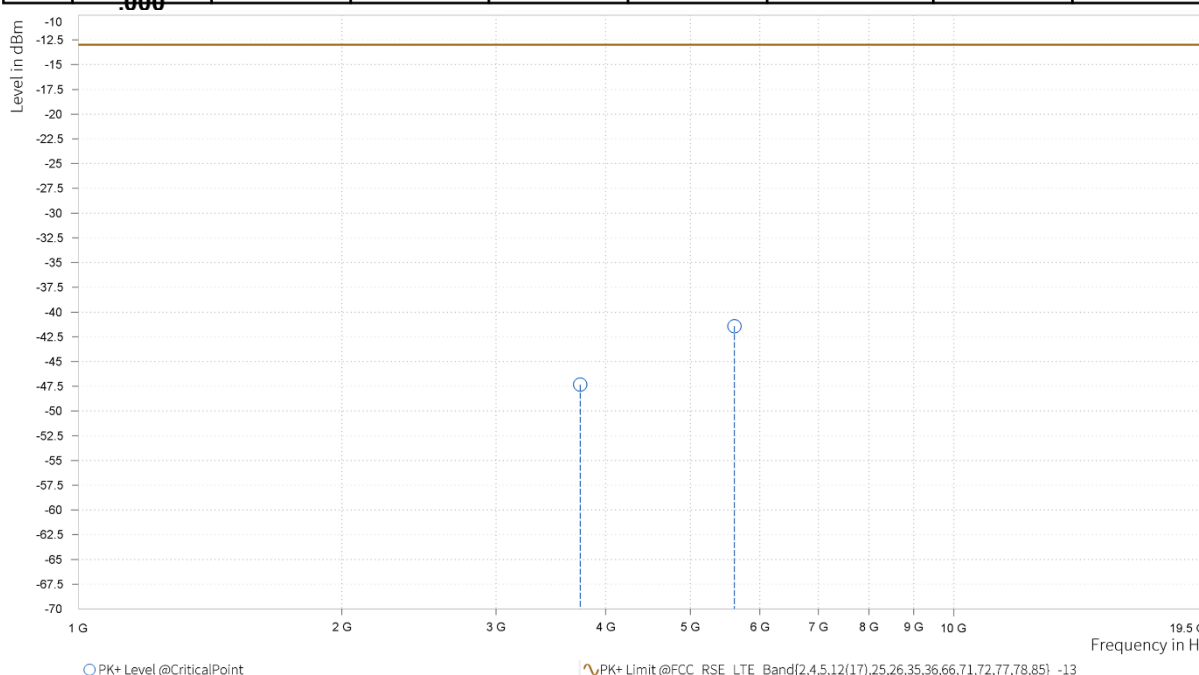


Test Report No.: RF260714B007

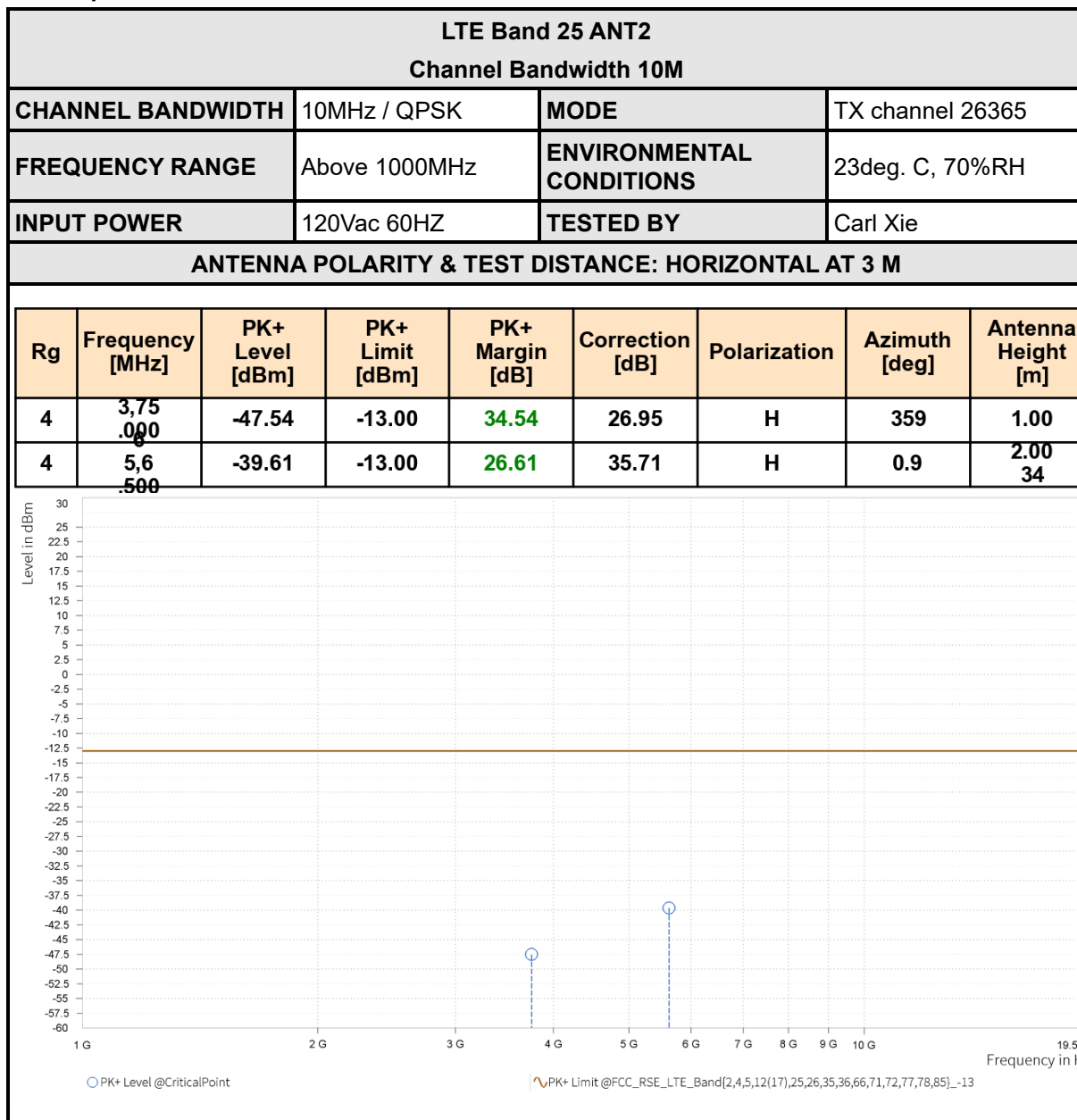
CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
4	3,740.000	-47.34	-13.00	34.34	27.14	V	125	2.00
4	5,600.000	-41.42	-13.00	28.42	34.44	V	359	1.00 20



Test Report No.: RF260714B007

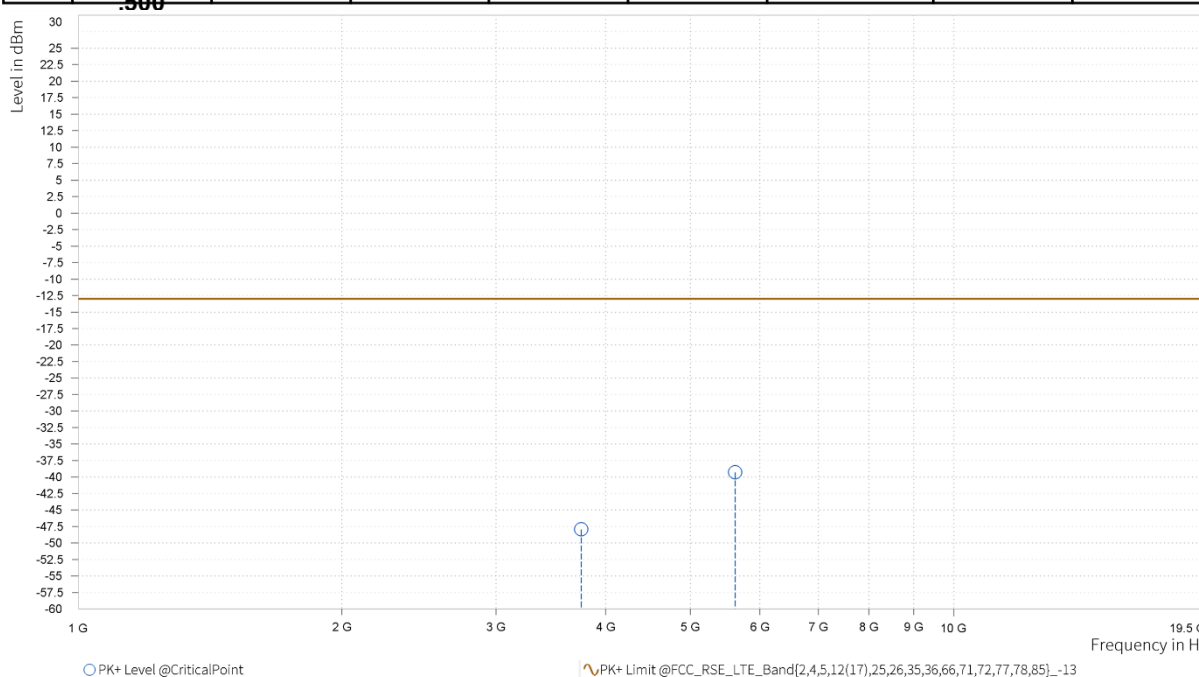


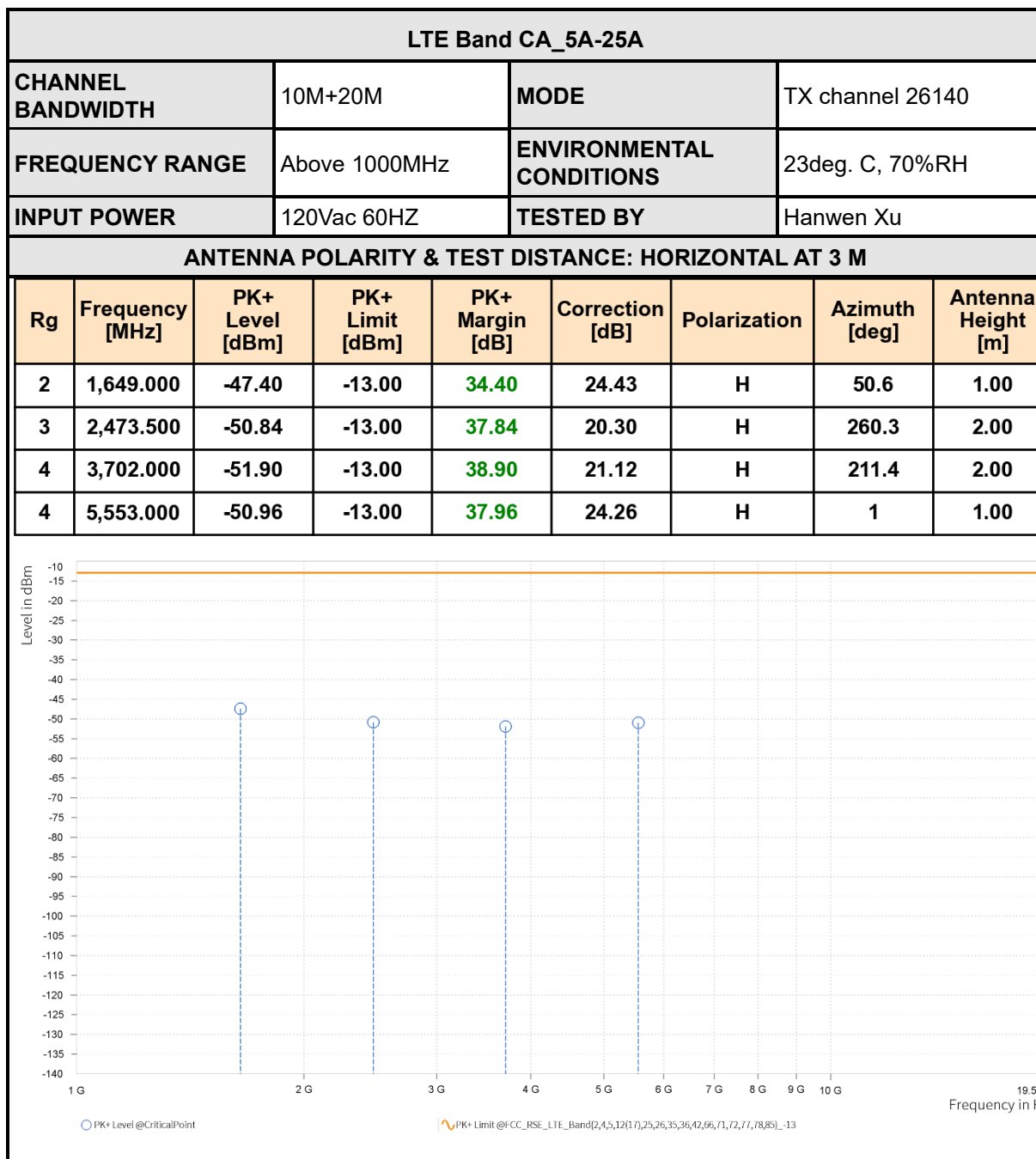
Test Report No.: RF260714B007

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

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]
4	3,750.000	-47.94	-13.00	34.94	26.66	V	96.4	2.00
4	5,600.500	-39.30	-13.00	26.30	35.45	V	0.9	2.00

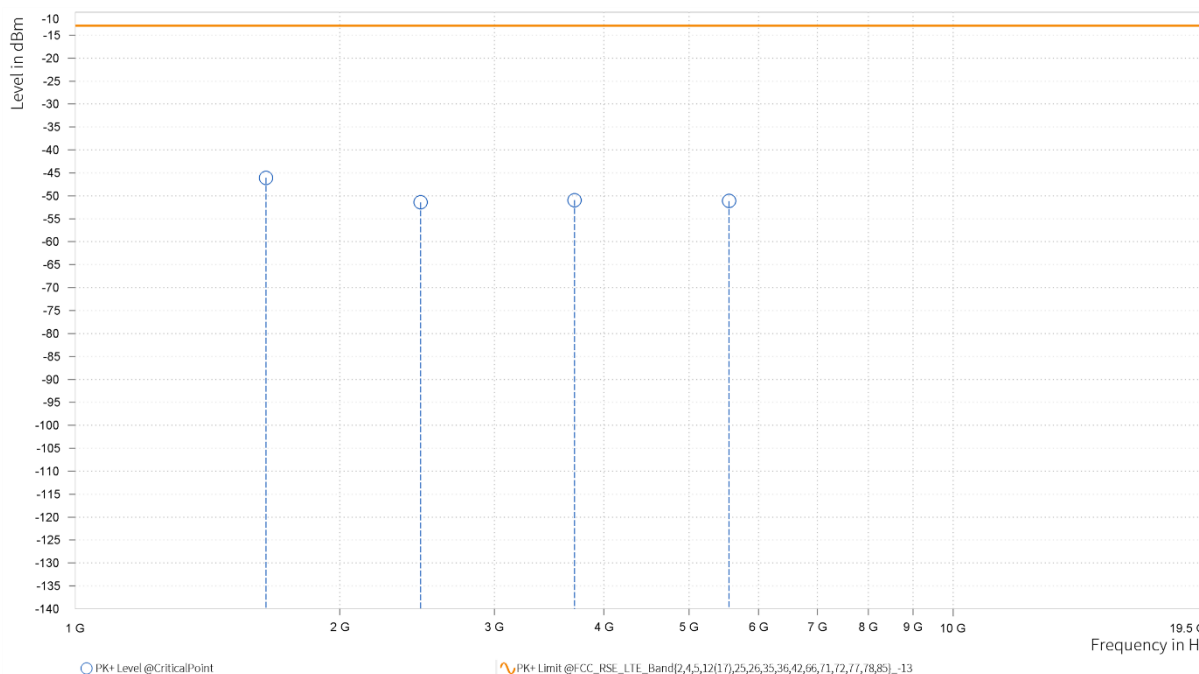




CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26140
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	-46.08	-13.00	33.08	23.98	V	359.1	1.00
3	2,473.500	-51.43	-13.00	38.43	20.55	V	1	1.00
4	3,702.000	-50.96	-13.00	37.96	21.72	V	1	1.00
4	5,553.000	-51.13	-13.00	38.13	24.96	V	148.7	1.00

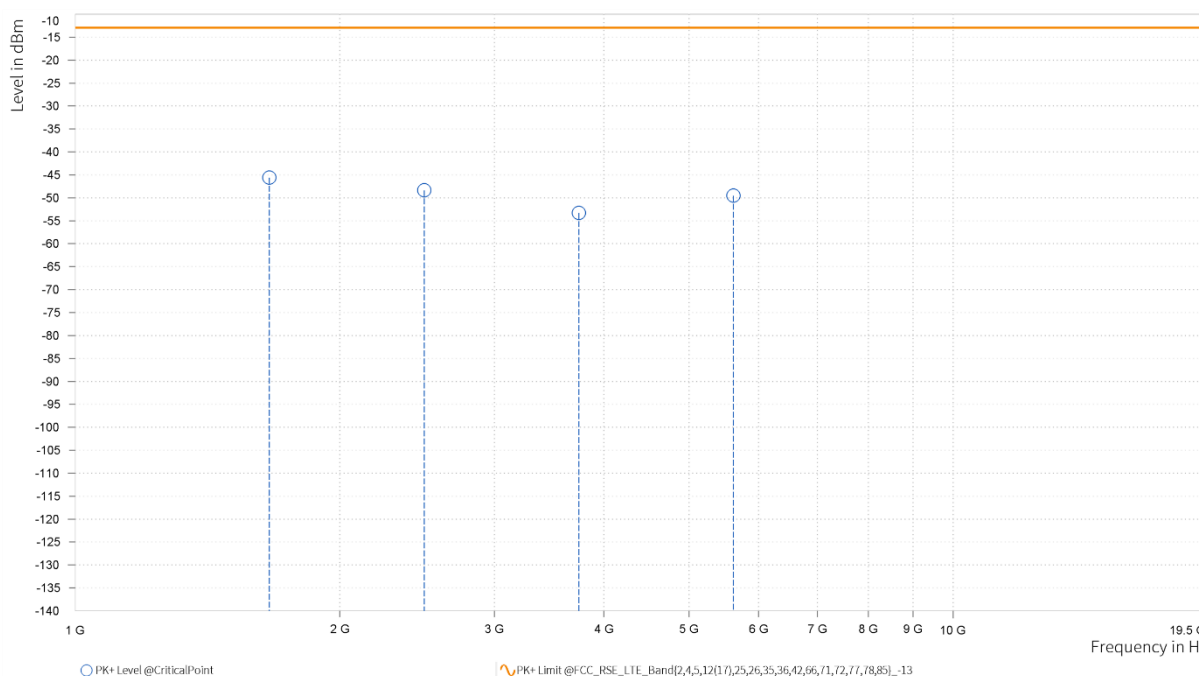


Test Report No.: RF260714B007

CHANNEL BANDWIDTH	10M+20M	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

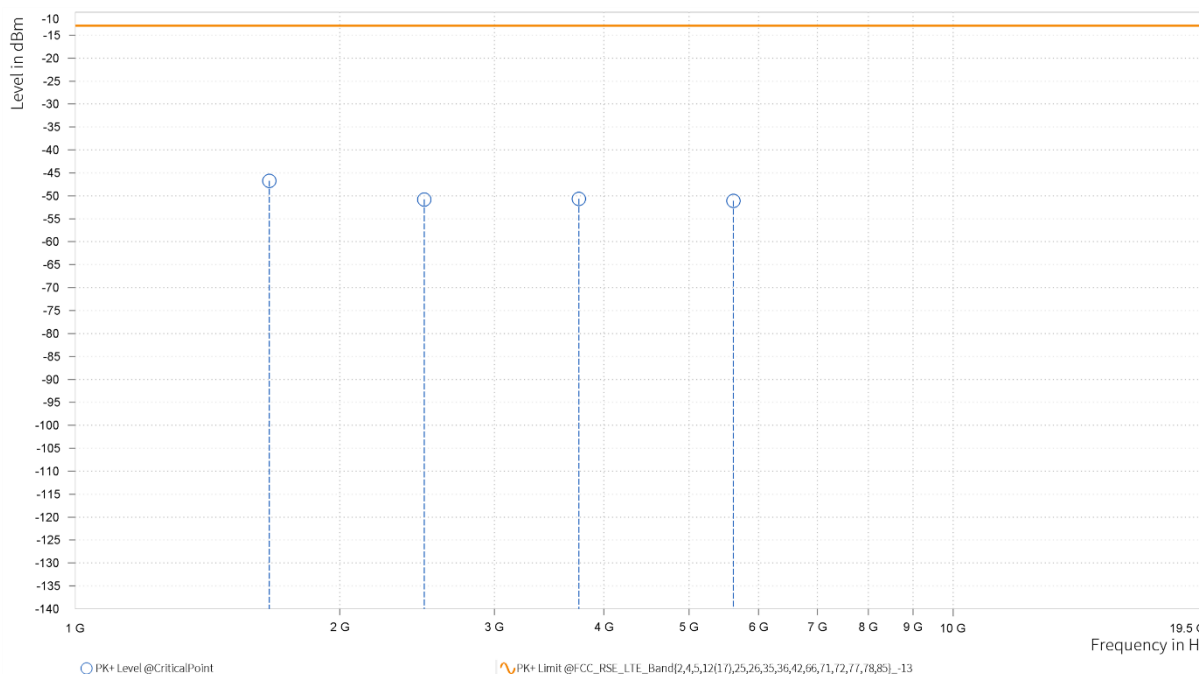
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,664.000	-45.61	-13.00	32.61	24.99	H	1	1.00
3	2,496.000	-48.36	-13.00	35.36	20.76	H	331.5	1.00
4	3,747.000	-53.29	-13.00	40.29	21.39	H	210.1	2.00
4	5,620.500	-49.53	-13.00	36.53	24.66	H	17.8	2.00



CHANNEL BANDWIDTH	10M+20M	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

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,664.000	-46.74	-13.00	33.74	23.87	V	39.1	2.00
3	2,496.000	-50.79	-13.00	37.79	21.03	V	334	1.00
4	3,747.000	-50.65	-13.00	37.65	22.04	V	359	1.00
4	5,620.500	-51.08	-13.00	38.08	25.06	V	0.9	2.00

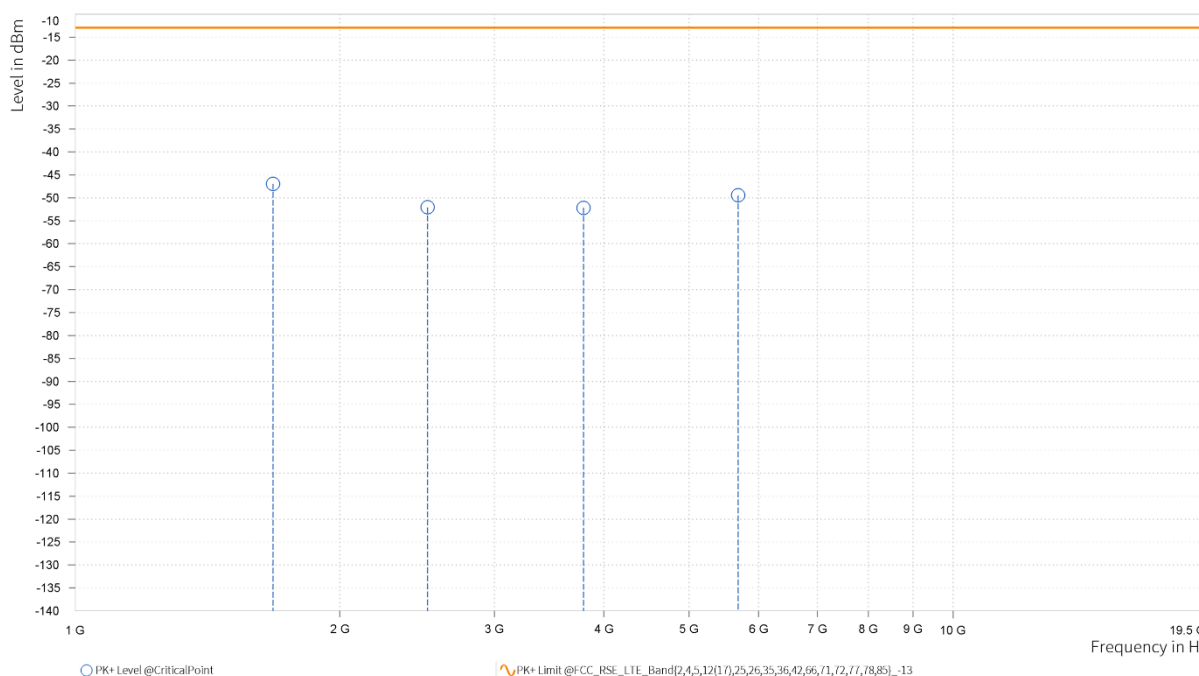


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CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26590
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

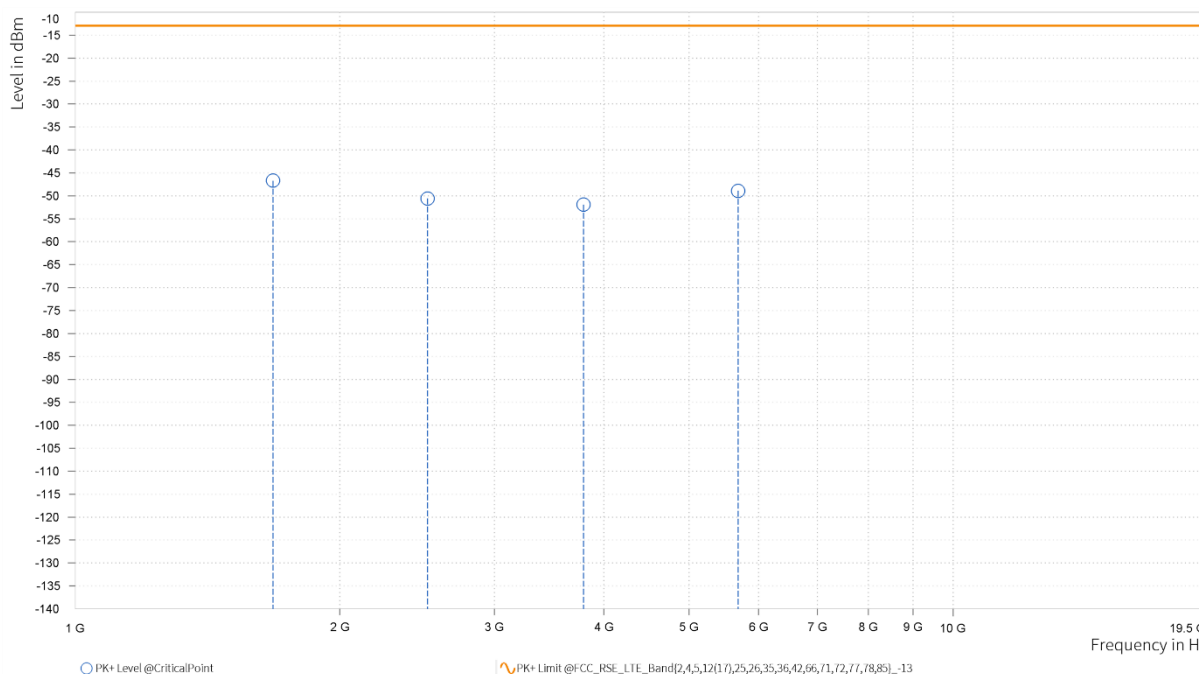
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,679.000	-46.96	-13.00	33.96	25.29	H	39.2	2.00
3	2,518.500	-52.08	-13.00	39.08	20.28	H	359	2.00
4	3,792.000	-52.19	-13.00	39.19	22.18	H	345.1	1.00
4	5,688.000	-49.47	-13.00	36.47	25.02	H	211.4	2.00



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	1,679.000	-46.69	-13.00	33.69	24.21	V	359.1	1.00
3	2,518.000	-50.60	-13.00	37.60	21.14	V	359	2.00
4	3,792.000	-51.94	-13.00	38.94	22.39	V	210.2	2.00
4	5,688.000	-48.91	-13.00	35.91	25.44	V	14.9	2.00

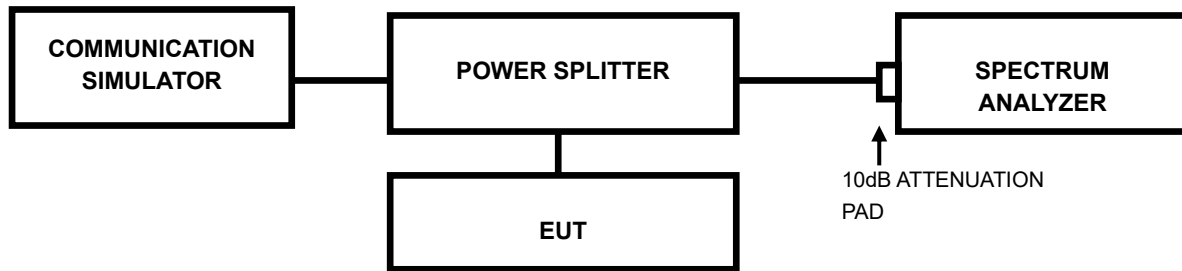


3.7 PEAK TO AVERAGE RATIO

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

Please Refer to Appendix of this test report.



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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5 INFORMATION ON THE TESTING LABORATORIES

We, BOOMWAVE TEST (SHENZHEN) CO., LTD., were founded in 2025 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

BOOMWAVE TEST (SHENZHEN) CO., LTD.

Lab Address:

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th Road, Chiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Accredited Test Lab Cert 7607.01

Shenzhen EMC/RF Lab:

Mobile: +86 15118052731

Email: shimin.wang@boomwavelab.com

6 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.

7 Appendix

LTE BAND 25(INCLUDING LTE BAND 2) PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
1.4MHz	QPSK	26047	1RB Low	2.92	13	PASS
1.4MHz	QPSK	26047	Full RB	3.10	13	PASS
1.4MHz	16QAM	26047	1RB Low	3.38	13	PASS
1.4MHz	16QAM	26047	Full RB	4.10	13	PASS
1.4MHz	64QAM	26047	1RB Low	3.94	13	PASS
1.4MHz	64QAM	26047	Full RB	5.04	13	PASS
1.4MHz	256QAM	26047	1RB Low	6.06	13	PASS
1.4MHz	256QAM	26047	Full RB	6.14	13	PASS
1.4MHz	QPSK	26365	1RB Low	3.18	13	PASS
1.4MHz	QPSK	26365	Full RB	3.62	13	PASS
1.4MHz	16QAM	26365	1RB Low	3.64	13	PASS
1.4MHz	16QAM	26365	Full RB	4.48	13	PASS
1.4MHz	64QAM	26365	1RB Low	4.42	13	PASS
1.4MHz	64QAM	26365	Full RB	5.34	13	PASS
1.4MHz	256QAM	26365	1RB Low	6.26	13	PASS
1.4MHz	256QAM	26365	Full RB	6.46	13	PASS
1.4MHz	QPSK	26683	1RB Low	2.94	13	PASS
1.4MHz	QPSK	26683	Full RB	3.08	13	PASS
1.4MHz	16QAM	26683	1RB Low	2.54	13	PASS
1.4MHz	16QAM	26683	Full RB	4.10	13	PASS
1.4MHz	64QAM	26683	1RB Low	3.46	13	PASS
1.4MHz	64QAM	26683	Full RB	5.02	13	PASS
1.4MHz	256QAM	26683	1RB Low	6.28	13	PASS
1.4MHz	256QAM	26683	Full RB	6.20	13	PASS
3MHz	QPSK	26055	1RB Low	2.70	13	PASS
3MHz	QPSK	26055	Full RB	3.18	13	PASS
3MHz	16QAM	26055	1RB Low	3.36	13	PASS
3MHz	16QAM	26055	Full RB	4.16	13	PASS
3MHz	64QAM	26055	1RB Low	3.90	13	PASS
3MHz	64QAM	26055	Full RB	5.04	13	PASS
3MHz	256QAM	26055	1RB Low	6.22	13	PASS
3MHz	256QAM	26055	Full RB	6.20	13	PASS
3MHz	QPSK	26365	1RB Low	3.26	13	PASS
3MHz	QPSK	26365	Full RB	3.58	13	PASS
3MHz	16QAM	26365	1RB Low	3.38	13	PASS
3MHz	16QAM	26365	Full RB	4.50	13	PASS
3MHz	64QAM	26365	1RB Low	4.60	13	PASS
3MHz	64QAM	26365	Full RB	5.28	13	PASS
3MHz	256QAM	26365	1RB Low	6.58	13	PASS
3MHz	256QAM	26365	Full RB	6.54	13	PASS
3MHz	QPSK	26675	1RB Low	3.18	13	PASS
3MHz	QPSK	26675	Full RB	3.26	13	PASS
3MHz	16QAM	26675	1RB Low	3.04	13	PASS
3MHz	16QAM	26675	Full RB	4.28	13	PASS
3MHz	64QAM	26675	1RB Low	3.76	13	PASS

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3MHz	64QAM	26675	Full RB	5.12	13	PASS
3MHz	256QAM	26675	1RB Low	6.30	13	PASS
3MHz	256QAM	26675	Full RB	6.42	13	PASS
5MHz	QPSK	26065	1RB Low	2.72	13	PASS
5MHz	QPSK	26065	Full RB	3.26	13	PASS
5MHz	16QAM	26065	1RB Low	3.40	13	PASS
5MHz	16QAM	26065	Full RB	4.50	13	PASS
5MHz	64QAM	26065	1RB Low	4.10	13	PASS
5MHz	64QAM	26065	Full RB	5.06	13	PASS
5MHz	256QAM	26065	1RB Low	6.36	13	PASS
5MHz	256QAM	26065	Full RB	6.36	13	PASS
5MHz	QPSK	26365	1RB Low	3.20	13	PASS
5MHz	QPSK	26365	Full RB	3.52	13	PASS
5MHz	16QAM	26365	1RB Low	3.46	13	PASS
5MHz	16QAM	26365	Full RB	4.50	13	PASS
5MHz	64QAM	26365	1RB Low	4.56	13	PASS
5MHz	64QAM	26365	Full RB	5.38	13	PASS
5MHz	256QAM	26365	1RB Low	6.14	13	PASS
5MHz	256QAM	26365	Full RB	6.48	13	PASS
5MHz	QPSK	26665	1RB Low	3.10	13	PASS
5MHz	QPSK	26665	Full RB	3.36	13	PASS
5MHz	16QAM	26665	1RB Low	3.02	13	PASS
5MHz	16QAM	26665	Full RB	4.42	13	PASS
5MHz	64QAM	26665	1RB Low	4.12	13	PASS
5MHz	64QAM	26665	Full RB	5.38	13	PASS
5MHz	256QAM	26665	1RB Low	6.22	13	PASS
5MHz	256QAM	26665	Full RB	6.42	13	PASS
10MHz	QPSK	26090	1RB Low	2.72	13	PASS
10MHz	QPSK	26090	Full RB	3.46	13	PASS
10MHz	16QAM	26090	1RB Low	3.02	13	PASS
10MHz	16QAM	26090	Full RB	4.76	13	PASS
10MHz	64QAM	26090	1RB Low	4.02	13	PASS
10MHz	64QAM	26090	Full RB	5.34	13	PASS
10MHz	256QAM	26090	1RB Low	6.48	13	PASS
10MHz	256QAM	26090	Full RB	6.40	13	PASS
10MHz	QPSK	26365	1RB Low	3.02	13	PASS
10MHz	QPSK	26365	Full RB	3.58	13	PASS
10MHz	16QAM	26365	1RB Low	3.56	13	PASS
10MHz	16QAM	26365	Full RB	4.58	13	PASS
10MHz	64QAM	26365	1RB Low	4.22	13	PASS
10MHz	64QAM	26365	Full RB	5.44	13	PASS
10MHz	256QAM	26365	1RB Low	6.26	13	PASS
10MHz	256QAM	26365	Full RB	6.38	13	PASS
10MHz	QPSK	26640	1RB Low	3.38	13	PASS
10MHz	QPSK	26640	Full RB	3.76	13	PASS
10MHz	16QAM	26640	1RB Low	3.68	13	PASS
10MHz	16QAM	26640	Full RB	4.72	13	PASS
10MHz	64QAM	26640	1RB Low	4.50	13	PASS
10MHz	64QAM	26640	Full RB	5.62	13	PASS
10MHz	256QAM	26640	1RB Low	6.54	13	PASS
10MHz	256QAM	26640	Full RB	6.46	13	PASS
15MHz	QPSK	26115	1RB Low	2.82	13	PASS
15MHz	QPSK	26115	Full RB	3.90	13	PASS

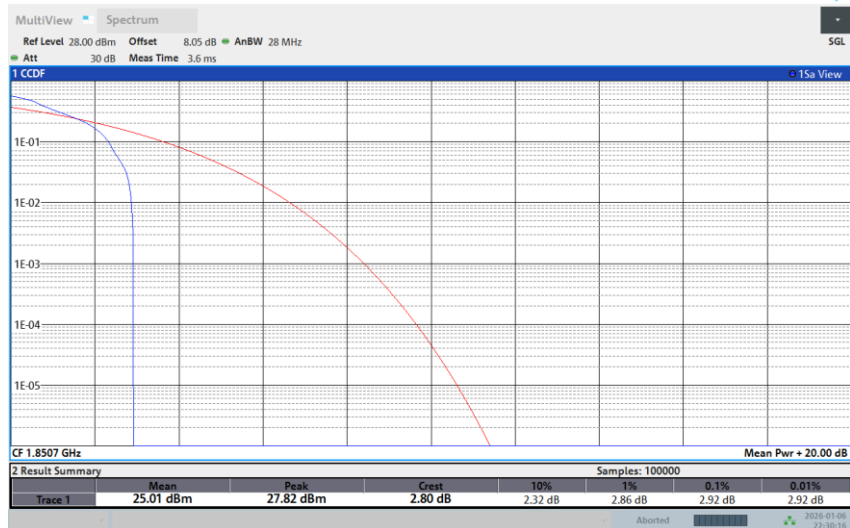
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15MHz	16QAM	26115	1RB Low	3.20	13	PASS
15MHz	16QAM	26115	Full RB	4.78	13	PASS
15MHz	64QAM	26115	1RB Low	4.12	13	PASS
15MHz	64QAM	26115	Full RB	5.60	13	PASS
15MHz	256QAM	26115	1RB Low	6.20	13	PASS
15MHz	256QAM	26115	Full RB	6.58	13	PASS
15MHz	QPSK	26365	1RB Low	3.38	13	PASS
15MHz	QPSK	26365	Full RB	3.96	13	PASS
15MHz	16QAM	26365	1RB Low	3.64	13	PASS
15MHz	16QAM	26365	Full RB	4.90	13	PASS
15MHz	64QAM	26365	1RB Low	4.40	13	PASS
15MHz	64QAM	26365	Full RB	5.68	13	PASS
15MHz	256QAM	26365	1RB Low	6.30	13	PASS
15MHz	256QAM	26365	Full RB	6.52	13	PASS
15MHz	QPSK	26615	1RB Low	3.48	13	PASS
15MHz	QPSK	26615	Full RB	4.20	13	PASS
15MHz	16QAM	26615	1RB Low	3.86	13	PASS
15MHz	16QAM	26615	Full RB	5.10	13	PASS
15MHz	64QAM	26615	1RB Low	4.32	13	PASS
15MHz	64QAM	26615	Full RB	5.82	13	PASS
15MHz	256QAM	26615	1RB Low	5.96	13	PASS
15MHz	256QAM	26615	Full RB	6.56	13	PASS
20MHz	QPSK	26140	1RB Low	2.86	13	PASS
20MHz	QPSK	26140	Full RB	4.02	13	PASS
20MHz	16QAM	26140	1RB Low	3.38	13	PASS
20MHz	16QAM	26140	Full RB	5.02	13	PASS
20MHz	64QAM	26140	1RB Low	4.22	13	PASS
20MHz	64QAM	26140	Full RB	5.72	13	PASS
20MHz	256QAM	26140	1RB Low	6.00	13	PASS
20MHz	256QAM	26140	Full RB	6.66	13	PASS
20MHz	QPSK	26365	1RB Low	3.20	13	PASS
20MHz	QPSK	26365	Full RB	4.10	13	PASS
20MHz	16QAM	26365	1RB Low	3.66	13	PASS
20MHz	16QAM	26365	Full RB	5.08	13	PASS
20MHz	64QAM	26365	1RB Low	4.40	13	PASS
20MHz	64QAM	26365	Full RB	5.72	13	PASS
20MHz	256QAM	26365	1RB Low	6.34	13	PASS
20MHz	256QAM	26365	Full RB	6.56	13	PASS
20MHz	QPSK	26590	1RB Low	3.28	13	PASS
20MHz	QPSK	26590	Full RB	4.32	13	PASS
20MHz	16QAM	26590	1RB Low	3.10	13	PASS
20MHz	16QAM	26590	Full RB	5.24	13	PASS
20MHz	64QAM	26590	1RB Low	4.58	13	PASS
20MHz	64QAM	26590	Full RB	5.82	13	PASS
20MHz	256QAM	26590	1RB Low	6.58	13	PASS
20MHz	256QAM	26590	Full RB	6.58	13	PASS

Test Graphs

Band 25-1.4M-LOW-QPSK-1RB Low

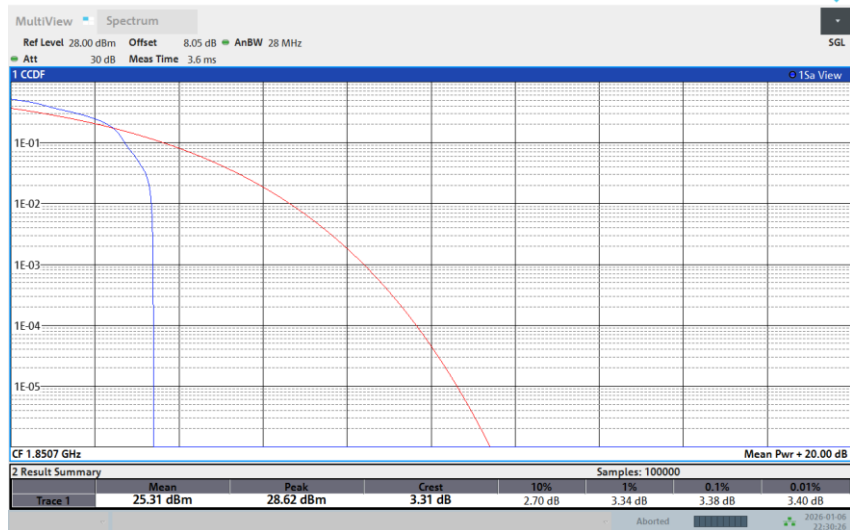
Test Report No.: RF260714B007



Band 25-1.4M-LOW-QPSK-Full RB



Band 25-1.4M-LOW-16QAM-1RB Low



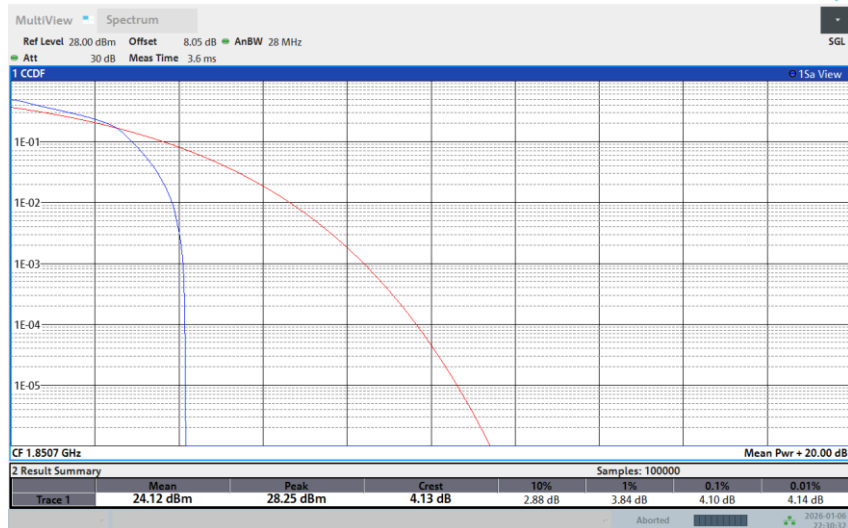
Band 25-1.4M-LOW-16QAM-Full RB

BOOMWAVE TEST (SHENZHEN)
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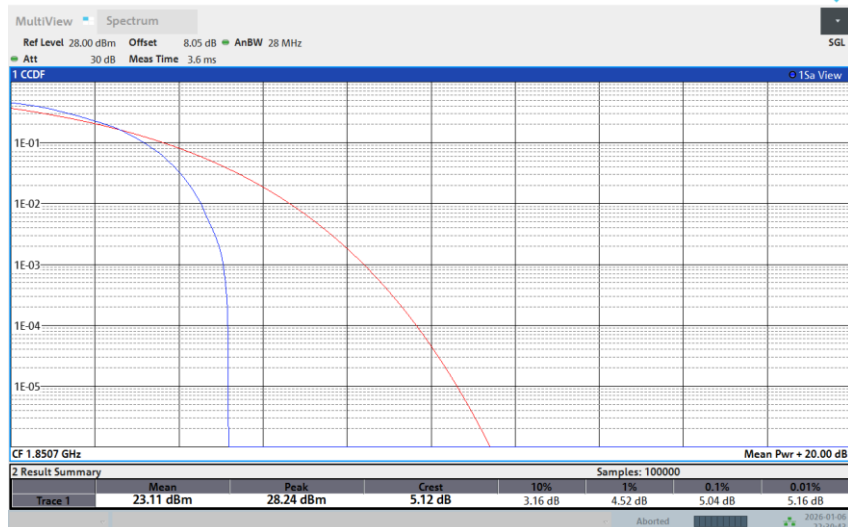
Test Report No.: RF260714B007



Band 25-1.4M-LOW-64QAM-1RB Low



Band 25-1.4M-LOW-64QAM-Full RB



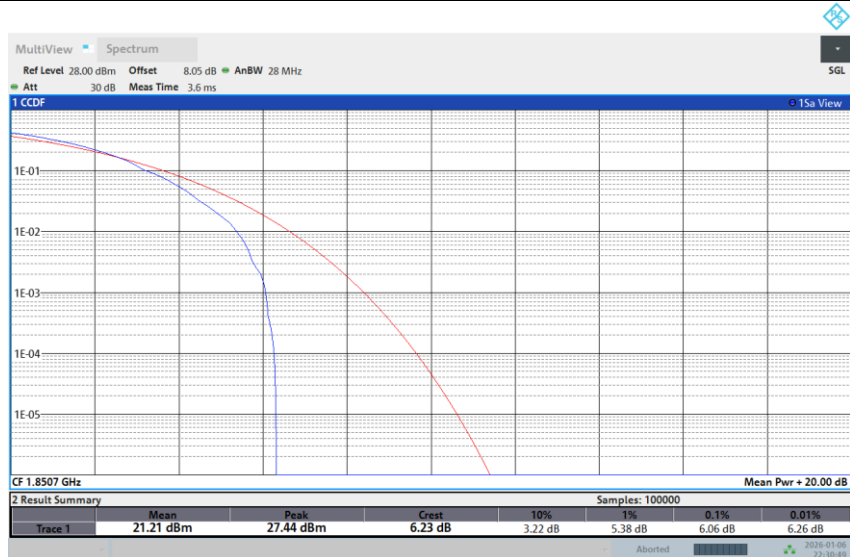
Band 25-1.4M-LOW-256QAM-1RB Low

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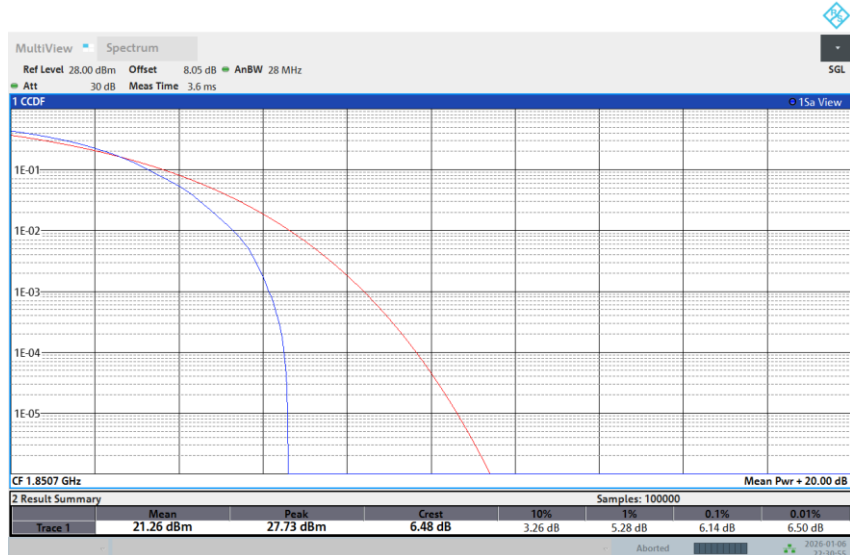
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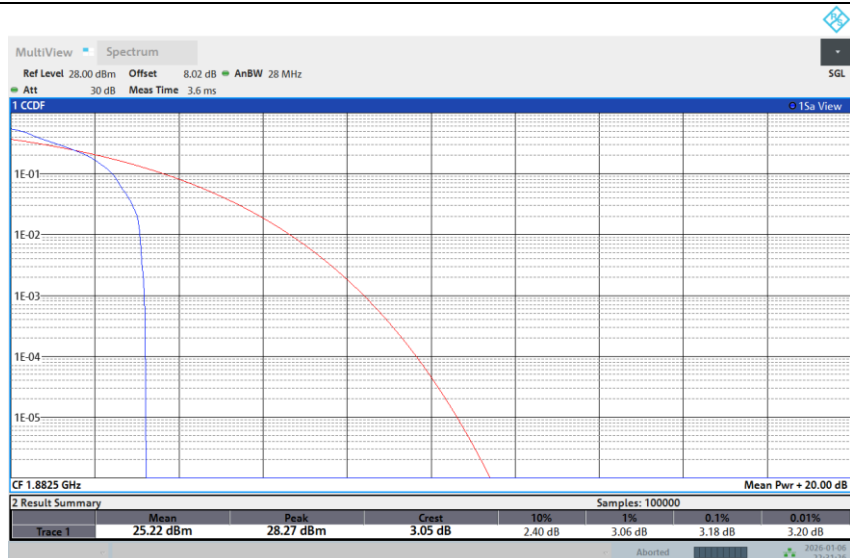
Test Report No.: RF260714B007



Band 25-1.4M-LOW-256QAM-Full RB



Band 25-1.4M-MID-QPSK-1RB Low



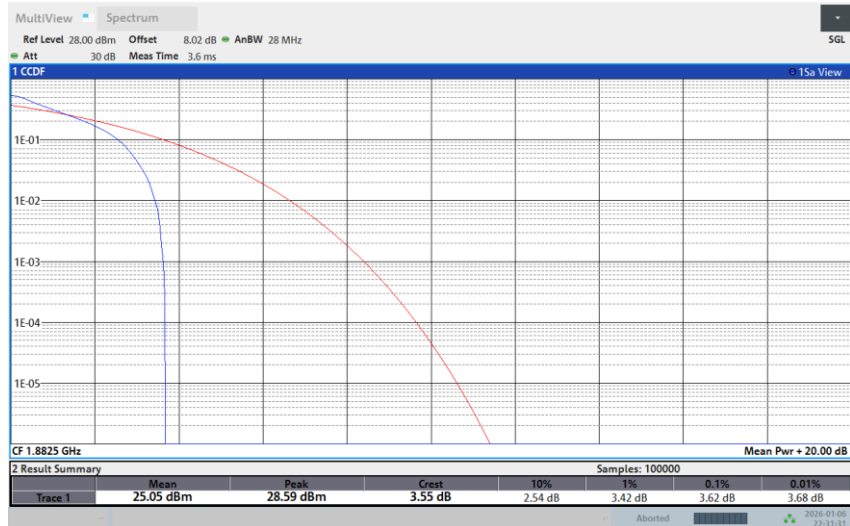
Band 25-1.4M-MID-QPSK-Full RB

BOOMWAVE TEST (SHENZHEN)
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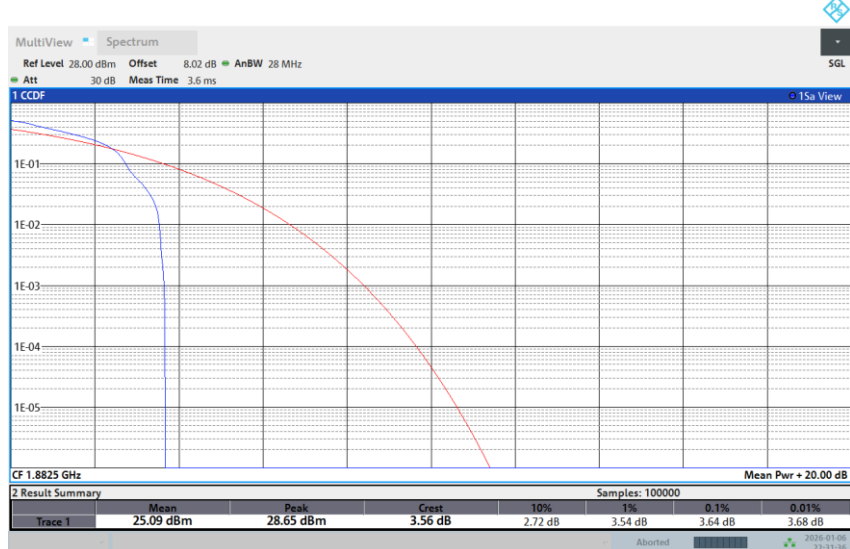
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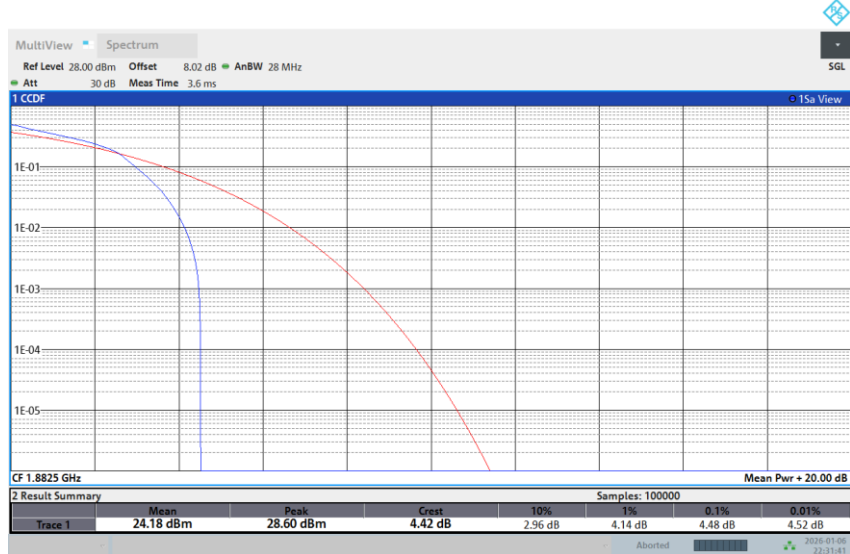
Test Report No.: RF260714B007



Band 25-1.4M-MID-16QAM-1RB Low



Band 25-1.4M-MID-16QAM-Full RB



Band 25-1.4M-MID-64QAM-1RB Low

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