

FCC TEST REPORT

(PART 24)

Applicant:	Shenzhen Jimi IoT Co., Ltd.
Address:	3-4/F, Block A, Building #7, Shenzhen International Innovation Valley, Dashi 1st Road, Nanshan District, Shenzhen, Guangdong, China

Manufacturer or Supplier:	Shenzhen Jimi IoT Co., Ltd.
Address:	3-4/F, Block A, Building #7, Shenzhen International Innovation Valley, Dashi 1st Road, Nanshan District, Shenzhen, Guangdong, China
Product:	M2M wireless communication module
Brand Name:	jimiiot
Model Name:	XQ200A/ XQ200A-NA
FCC ID	2AMLF-XQ200A
Date of tests	Jul. 11, 2025~ Aug. 11, 2025

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

☒ FCC PART 24, Subpart E	☒ ANSI/TIA/EIA-603-E
☒ FCC PART 2	☒ ANSI C63.26-2015
☒ ANSI/TIA/EIA-603-D	

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: Aug. 11, 2025	Date: Aug. 11, 2025

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TABLE OF CONTENTS

RELEASE CONTROL RECORD	5
1 SUMMARY OF TEST RESULTS	6
1.1 MEASUREMENT UNCERTAINTY	7
1.2 TEST SITE AND INSTRUMENTS	8
2 GENERAL INFORMATION	9
2.1 GENERAL DESCRIPTION OF EUT	9
2.2 CONFIGURATION OF SYSTEM UNDER TEST	12
2.3 DESCRIPTION OF SUPPORT UNITS	13
2.4 TEST ITEM AND TEST CONFIGURATION	13
2.5 EUT OPERATING CONDITIONS	17
2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS	17
3 TEST TYPES AND RESULTS	18
3.1 OUTPUT POWER MEASUREMENT	18
3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	18
3.1.2 TEST PROCEDURES	18
3.1.3 TEST SETUP	19
3.1.4 TEST RESULTS	19
3.2 FREQUENCY STABILITY MEASUREMENT	31
3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	31
3.2.2 TEST PROCEDURE	31
3.2.3 TEST SETUP	31
3.2.4 TEST RESULTS	31
3.3 OCCUPIED BANDWIDTH MEASUREMENT	32
3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT	32
3.3.2 TEST SETUP	32
3.3.3 TEST PROCEDURES	32
3.3.4 TEST RESULTS	32
3.4 BAND EDGE MEASUREMENT	33
3.4.1 LIMITS OF BAND EDGE MEASUREMENT	33
3.4.2 TEST SETUP	33
3.4.3 TEST PROCEDURES	34
3.4.4 TEST RESULTS	34
3.5 CONDUCTED SPURIOUS EMISSIONS	35
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	35
3.5.2 TEST PROCEDURE	35
3.5.3 TEST SETUP	35
3.5.4 TEST RESULTS	35
3.6 RADIATED EMISSION MEASUREMENT	36
3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT	36
3.6.2 TEST PROCEDURES	36
3.6.3 DEVIATION FROM TEST STANDARD	36
3.6.4 TEST SETUP	37
3.6.5 TEST RESULTS	39



BUREAU VERITAS Test Report No.: PSU-QSZ2507090114RF02

3.7	PEAK TO AVERAGE RATIO	75
3.7.1	LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	75
3.7.2	TEST SETUP	75
3.7.3	TEST PROCEDURES	75
3.7.4	TEST RESULTS	75
4	INFORMATION ON THE TESTING LABORATORIES	76
5	MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	77
6	APPENDIX.....	78
	GPRS 1900/EDGE 1900	78
	PEAK-TO-AVERAGE RATIO(CCDF)	78
	TEST RESULT	78
	TEST GRAPHS	79
	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	82
	TEST RESULT	82
	BAND EDGE	89
	TEST RESULT	89
	TEST GRAPHS	90
	CONDUCTED SPURIOUS EMISSION	92
	TEST RESULT	92
	TEST GRAPHS	93
	FREQUENCY STABILITY	99
	TEST RESULT	99
	WCDMA BAND2	100
	PEAK-TO-AVERAGE RATIO	100
	TEST RESULT	100
	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	103
	TEST RESULT	103
	TEST GRAPHS	104
	BAND EDGE	107
	TEST RESULT	107
	CONDUCTED SPURIOUS EMISSION	109
	TEST RESULT	109
	TEST GRAPHS	110
	FREQUENCY STABILITY	113
	TEST RESULT	113
	LTE BAND25(INCLUDING LTE BAND2).....	114
	PEAK-TO-AVERAGE RATIO(CCDF)	114
	TEST RESULT	114
	TEST GRAPHS	116
	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	128
	TEST RESULT	128
	TEST GRAPHS	129
	TEST RESULT	135
	TEST GRAPHS	136
	BAND EDGE	142
	TEST RESULT	142



BUREAU VERITAS Test Report No.: PSU-QSZ2507090114RF02

TEST GRAPHS	143
CONDUCTED SPURIOUS EMISSION	151
TEST RESULT	151
TEST GRAPHS	153
FREQUENCY STABILITY	159
TEST RESULT	159



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-QSZ2507090114RF02	Original release	Aug. 11, 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.

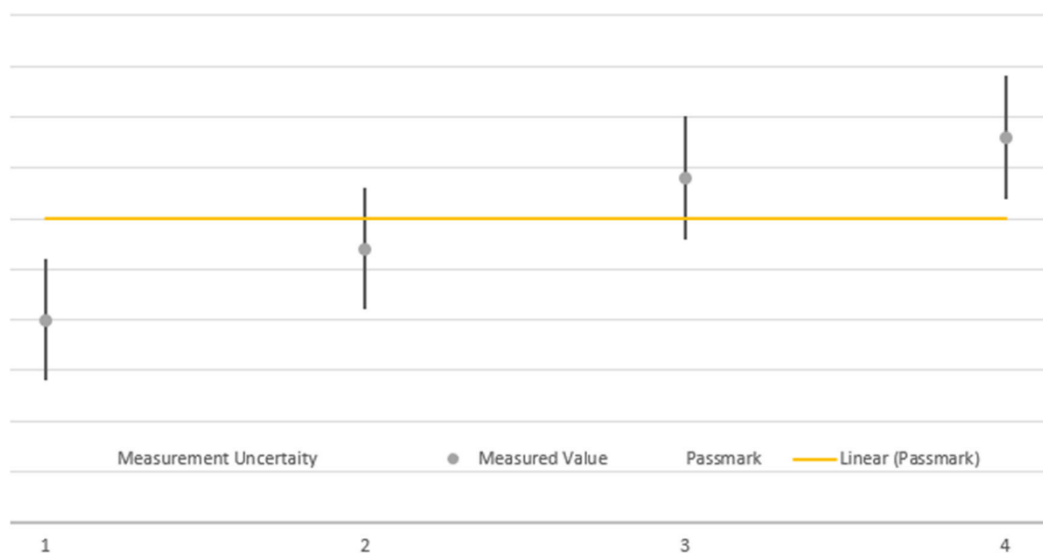


1.1 MEASUREMENT UNCERTAINTY

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**

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,23	Aug.29,25
Pre-Amplifier	R&S	SCU08F1	101028	Jan.22,24	Jan.21,26
Vector Signal Generator	R&S	SMBV100B	102176	Mar.29,24	Mar.28,26
Signal Generator	R&S	SMB100A	182185	Mar.29,24	Mar.28,26
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	Mar.28,24	Mar.27,26
EMI TEST Receiver	R&S	ESW44	101973	Mar.28,24	Mar.27,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Jul.04,25	Jul.03,27
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,23	Aug.21,25
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Jul.15,24	Jul.14,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Mar.22,25	Mar.21,27
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.22,25	Feb.21,27
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
Test Software	EMC32	EMC32	N/A	N/A	N/A
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.31,23	Aug.30,25
Hygrothermograph	DELI	20210528	SZ014	Mar.18,25	Mar.17,27
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	Apr.26,25	Apr.25,26
CABLE	R&S	W12.14	N/A	Apr.26,25	Apr.25,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.26,25	Apr.25,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.26,25	Apr.25,26
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26

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.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	M2M wireless communication module	
BRAND NAME*	jimiiot	
MODEL NAME*	XQ200A/ XQ200A-NA	
NOMINAL VOLTAGE*	DC 3.7V	
MODULATION TYPE*	GPRS: GMSK EDGE: 8PSK WCDMA: QPSK, 16QAM LTE Band 2/25: QPSK, 16QAM	
FREQUENCY RANGE	GPRS, EDGE	1850.2MHz ~ 1909.8MHz
	WCDMA	1852.4MHz ~ 1907.6MHz
	LTE Band 2 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1909.3MHz
	LTE Band 2 Channel Bandwidth: 3MHz	1851.5MHz ~ 1908.5MHz
	LTE Band 2 Channel Bandwidth: 5MHz	1852.5MHz ~ 1907.5MHz
	LTE Band 2 Channel Bandwidth: 10MHz	1855.0MHz ~ 1905.0MHz
	LTE Band 2 Channel Bandwidth: 15MHz	1857.5MHz ~ 1902.5MHz
	LTE Band 2 Channel Bandwidth: 20MHz	1860.0MHz ~ 1900.0MHz
	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



MAX. EIRP POWER	GPRS	1396.37mW
	EDGE	605.34mW
	WCDMA	349.14mW
	LTE Band 2 Channel Bandwidth: 1.4MHz	269.77mW
	LTE Band 2 Channel Bandwidth: 3MHz	263.03mW
	LTE Band 2 Channel Bandwidth: 5MHz	267.30mW
	LTE Band 2 Channel Bandwidth: 10MHz	264.24mW
	LTE Band 2 Channel Bandwidth: 15MHz	270.40mW
	LTE Band 2 Channel Bandwidth: 20MHz	277.97mW
	LTE Band 25 Channel Bandwidth: 1.4MHz	281.19mW
	LTE Band 25 Channel Bandwidth: 3MHz	276.06mW
	LTE Band 25 Channel Bandwidth: 5MHz	281.84mW
	LTE Band 25 Channel Bandwidth: 10MHz	285.76mW
	LTE Band 25 Channel Bandwidth: 15MHz	281.84mW
	LTE Band 25 Channel Bandwidth: 20MHz	287.74mW
EMISSION DESIGNATOR	GPRS	244KGXW
	EDGE	248KG7W
	WCDMA	4M16F9W
	LTE Band 25 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D
		16QAM: 1M10W7D
	LTE Band 25 Channel Bandwidth: 3MHz	QPSK: 2M70G7D
		16QAM: 2M69W7D
	LTE Band 25 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M49W7D
	LTE Band 25 Channel Bandwidth: 10MHz	QPSK: 8M96G7D
		16QAM: 8M96W7D
	LTE Band 25 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D



BUREAU VERITAS Test Report No.: PSU-QSZ2507090114RF02

ANTENNA GAIN*	LTE Band 25	QPSK: 18M0G7D
	Channel Bandwidth: 20MHz	16QAM: 17M9W7D
	GPRS/EDGE 1900	1.63dBi
	WCDMA II	1.63dBi
	LTE B2	1.63dBi
	LTE B25	1.63dBi
ANTENNA TYPE*	Dipole Antenna, PIFA Antenna	
HW VERSION*	XQ200A_MB_V1.1	
SW VERSION*	XQ200A_XQ200A_WFBW_V1.2_250701.1631	
I/O PORTS*	Refer to user's manual	
CABLE SUPPLIED*	N/A	
EXTREME TEMPERATURE*	-10°C ~ 55°C	
EXTREME VOLTAGE*	3.2V ~ 4.2V	

NOTE:

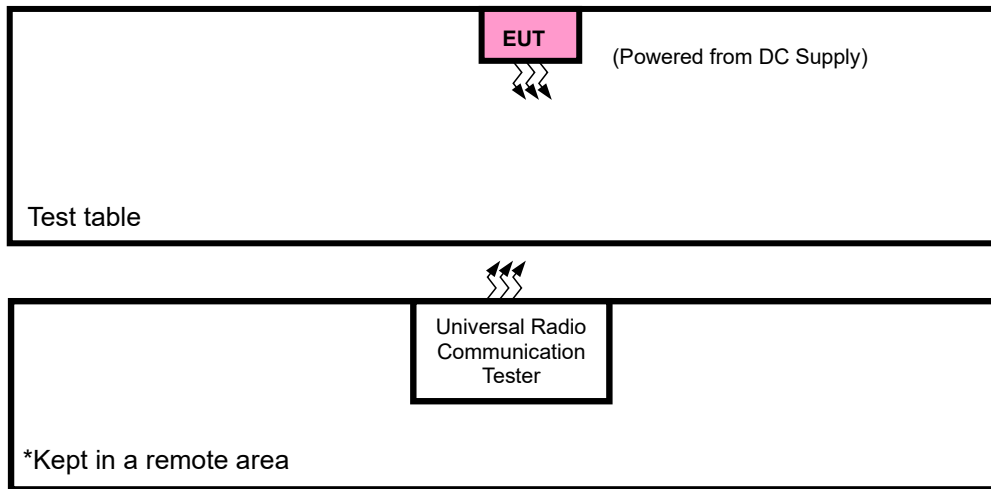
1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
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 receiver.

MODULATION MODE	TX FUNCTION
GPRS/EDGE	1TX/1RX
WCDMA	1TX/1RX
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.



BUREAU VERITAS Test Report No.: PSU-QSZ2507090114RF02
2.2 CONFIGURATION OF SYSTEM UNDER TEST
FOR RADIATION EMISSION TEST





2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC Source	HYELEC	HY3010B	551016	N/A

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

2.4 TEST ITEM AND TEST CONFIGURATION

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

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + DC Supply with GPRS /EDGE or WCDMA or LTE link

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



WCDMA				
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
A	FREQUENCY STABILITY	9262 to 9538	9262, 9400, 9538	WCDMA
A	OCCUPIED BANDWIDTH	9262 to 9538	9262, 9400, 9538	WCDMA
A	PEAK TO AVERAGE RATIO	9262 to 9538	9262, 9400, 9538	WCDMA
A	BAND EDGE	9262 to 9538	9262, 9538	WCDMA
A	CONDCUDED EMISSION	9262 to 9538	9262, 9400, 9538	WCDMA
A	RADIATED EMISSION	9262 to 9538	9262, 9400, 9538	WCDMA

LTE BAND 2 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	1 RB / 0 RB offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK,16QAM	1 RB / 0 RB offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK,16QAM	1 RB / 0 RB offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK,16QAM	1 RB / 0 RB offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK,16QAM	1 RB / 0 RB offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK,16QAM	1 RB / 0 RB offset

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	1 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB / 0 RB offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK, 16QAM	1 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB / 0 RB offset
A	FREQUENCY STABILITY	26140 to 26590	26140, 26365, 26590	20MHz	QPSK	100 RB / 0 RB offset
A	OCCUPIED BANDWIDTH	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM	6 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	15 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	25 RB / 0 RB offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK, 16QAM	50 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	75 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	100 RB / 0 RB offset
A	PEAK TO AVERAGE RATIO	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
A	BAND EDGE	26047 to 26683	26047	1.4MHz	QPSK, 16QAM	1 RB / 0 RB offset 6 RB / 0 RB offset
			26683	1.4MHz	QPSK, 16QAM	1 RB / 5 RB offset 6 RB / 0 RB offset
		26055 to 26675	26055	3MHz	QPSK, 16QAM	1 RB / 0 RB offset 15 RB / 0 RB offset
			26675	3MHz	QPSK, 16QAM	1 RB / 14 RB offset 15 RB / 0 RB offset
		26065 to 26665	26065	5MHz	QPSK, 16QAM	1 RB / 0 RB offset 25 RB / 0 RB offset
			26665	5MHz	QPSK, 16QAM	1 RB / 24 RB offset 25 RB / 0 RB offset



		26090 to 26640	26090	10MHz	QPSK,16QAM	1 RB / 0 RB offset
			26640	10MHz	QPSK,16QAM	50 RB / 0 RB offset
		26115 to 26615	26115	15MHz	QPSK,16QAM	1 RB / 49 RB offset
						50 RB / 0 RB offset
			26615	15MHz	QPSK,16QAM	1 RB / 0 RB offset
						75 RB / 0 RB offset
		26140 to 26590	26140	20MHz	QPSK,16QAM	1 RB / 74 RB offset
						75 RB / 0 RB offset
			26590	20MHz	QPSK,16QAM	1 RB / 0 RB offset
						100 RB / 0 RB offset
A	CONDCUDED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM	1 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM	1 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM	1 RB / 0 RB offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK,16QAM	1 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM	1 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK,16QAM	1 RB / 0 RB offset
A	RADIATED EMISSION	26047 to 26683	26365	1.4MHz	QPSK	1 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK	1 RB / 0 RB offset
		26065 to 26665	26365	5MHz	QPSK	1 RB / 0 RB offset
		26090 to 26640	263650	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 DC Source	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.2V/ 3.7V/ 4.2V By DC Source	Hanwen Xu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 3.7V By DC Source	Hanwen Xu
BAND EDGE	23deg. C, 70%RH	DC 3.7V By DC Source	Hanwen Xu
CONDCUDED EMISSION	23deg. C, 70%RH	DC 3.7V By DC Source	Hanwen Xu
RADIATED EMISSION	23deg. C, 70%RH	DC 3.7V By DC Source	Hanwen Xu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 3.7V By DC Source	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:

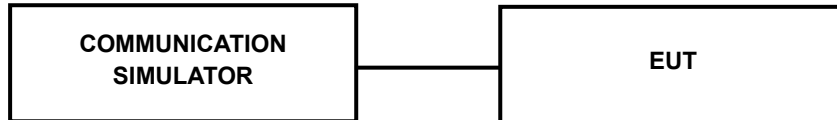
The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm) :

Band	GSM1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GPRS 1Tx Slot	29.42	29.22	29.82
GPRS 2Tx Slot	28.93	28.80	29.22
GPRS 3Tx Slot	27.33	27.19	27.45
GPRS 4Tx Slot	25.15	25.08	25.42
EDGE 1Tx Slot	25.77	25.73	26.19
EDGE 2Tx Slot	23.35	23.81	23.99
EDGE 3Tx Slot	20.66	20.55	21.28
EDGE 4Tx Slot	18.41	18.41	18.61

Band	WCDMA II		
TX Channel	9262	9400	9538
Rx Channel	9662	9800	9938
Frequency (MHz)	1852.4	1880	1907.6
RMC 12.2K	23.80	23.72	23.43
HSDPA Subtest-1	23.68	23.71	23.29
HSDPA Subtest-2	23.79	23.71	23.40
HSDPA Subtest-3	23.31	23.25	23.01
HSDPA Subtest-4	23.22	23.16	23.00
DC-HSDPA Subtest-1	23.69	23.69	23.34
DC-HSDPA Subtest-2	23.70	23.71	23.42
DC-HSDPA Subtest-3	23.27	23.13	22.92
DC-HSDPA Subtest-4	23.22	23.10	22.92
HSUPA Subtest-1	23.68	23.68	23.33
HSUPA Subtest-2	21.82	21.77	21.42
HSUPA Subtest-3	22.80	22.74	22.41
HSUPA Subtest-4	21.79	21.65	21.39
HSUPA Subtest-5	23.67	23.61	23.37
HSPA+ Subtest-1	21.33	21.25	21.01



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20	QPSK	1	0	22.56	22.43	22.78
		1	50	22.72	22.73	22.81
		1	99	22.58	22.59	22.72
		50	0	21.59	21.79	21.85
		50	25	21.74	21.86	21.89
		50	50	21.67	21.68	21.67
		100	0	21.60	21.71	21.66
	16QAM	1	0	21.83	21.86	22.08
		1	50	22.12	22.25	22.18
		1	99	21.93	21.95	21.96
		50	0	20.67	20.90	20.90
		50	25	20.88	20.98	20.95
		50	50	20.73	20.78	20.79
		100	0	20.74	20.80	20.71
BW [MHz]	Modulation	Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15	QPSK	1	0	22.41	22.34	22.66
		1	37	22.61	22.60	22.69
		1	74	22.50	22.48	22.67
		36	0	21.53	21.75	21.72
		36	19	21.67	21.83	21.85
		36	39	21.65	21.64	21.66
		75	0	21.50	21.56	21.56
	16QAM	1	0	21.70	21.74	22.06
		1	37	22.09	22.15	22.12
		1	74	21.88	21.88	21.94
		36	0	20.53	20.77	20.78
		36	19	20.74	20.86	20.83
		36	39	20.63	20.64	20.71
		75	0	20.60	20.72	20.69



LTE Band 2						
BW [MHz]	Modulation	Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10	QPSK	1	0	22.38	22.26	22.57
		1	24	22.51	22.58	22.59
		1	49	22.43	22.42	22.53
		25	0	21.42	21.70	21.65
		25	12	21.56	21.71	21.80
		25	25	21.52	21.59	21.61
		50	0	21.43	21.52	21.46
	16QAM	1	0	21.56	21.65	21.96
		1	24	22.04	22.01	22.06
		1	49	21.82	21.79	21.88
		25	0	20.43	20.69	20.70
		25	12	20.66	20.83	20.70
		25	25	20.51	20.57	20.59
		50	0	20.49	20.59	20.57
BW [MHz]	Modulation	Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5	QPSK	1	0	22.34	22.30	22.52
		1	12	22.50	22.52	22.64
		1	24	22.42	22.41	22.64
		12	0	21.39	21.68	21.60
		12	6	21.57	21.77	21.76
		12	13	21.56	21.53	21.56
		25	0	21.45	21.49	21.49
	16QAM	1	0	21.59	21.68	21.96
		1	12	22.03	22.08	22.04
		1	24	21.83	21.83	21.92
		12	0	20.52	20.63	20.77
		12	6	20.70	20.76	20.78
		12	13	20.58	20.58	20.56
		25	0	20.45	20.58	20.57



LTE Band 2						
BW [MHz]	Modulation	Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3	QPSK	1	0	22.24	22.28	22.39
		1	7	22.47	22.45	22.57
		1	14	22.35	22.30	22.49
		8	0	21.37	21.64	21.50
		8	3	21.55	21.63	21.61
		8	7	21.52	21.46	21.50
		15	0	21.34	21.43	21.39
	16QAM	1	0	21.48	21.57	21.86
		1	7	21.93	22.07	21.97
		1	14	21.68	21.76	21.86
		8	0	20.41	20.54	20.64
		8	3	20.63	20.67	20.76
		8	7	20.51	20.56	20.41
		15	0	20.33	20.54	20.55
BW [MHz]	Modulation	Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4	QPSK	1	0	22.44	22.31	22.64
		1	2	22.61	22.64	22.68
		1	5	22.51	22.48	22.62
		3	0	22.24	22.55	22.61
		3	1	22.43	22.60	22.68
		3	3	22.45	22.40	22.32
		6	0	21.53	21.62	21.53
	16QAM	1	0	21.81	21.74	21.96
		1	2	22.09	22.21	22.07
		1	5	21.91	21.85	21.91
		3	0	21.40	21.60	21.66
		3	1	21.63	21.75	21.67
		3	3	21.39	21.55	21.55



LTE Band 25						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20	QPSK	1	0	22.62	22.51	22.89
		1	50	22.65	22.68	22.85
		1	99	22.49	22.96	22.41
		50	0	21.53	21.59	21.70
		50	25	21.63	21.76	21.87
		50	50	21.58	21.78	21.89
		100	0	21.51	21.64	21.88
	16QAM	1	0	21.86	21.79	22.21
		1	50	21.91	21.98	22.17
		1	99	21.82	22.22	21.75
		50	0	20.59	20.62	20.85
		50	25	20.75	20.81	20.93
		50	50	20.61	20.80	20.86
		100	0	20.61	20.66	20.82
BW [MHz]	Modulation	Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15	QPSK	1	0	22.59	22.42	22.83
		1	37	22.60	22.55	22.80
		1	74	22.35	22.87	22.26
		36	0	21.44	21.44	21.57
		36	19	21.59	21.65	21.72
		36	39	21.57	21.67	21.82
		75	0	21.49	21.59	21.78
	16QAM	1	0	21.71	21.71	22.09
		1	37	21.89	21.91	22.10
		1	74	21.74	22.14	21.68
		36	0	20.47	20.56	20.84
		36	19	20.68	20.72	20.79
		36	39	20.50	20.77	20.81
		75	0	20.50	20.60	20.67



LTE Band 25						
BW [MHz]	Modulation	Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10	QPSK	1	0	22.49	22.43	22.88
		1	24	22.58	22.54	22.81
		1	49	22.42	22.93	22.31
		25	0	21.49	21.53	21.60
		25	12	21.57	21.67	21.85
		25	25	21.51	21.76	21.83
		50	0	21.49	21.49	21.82
	16QAM	1	0	21.83	21.74	22.12
		1	24	21.84	21.83	22.07
		1	49	21.73	22.20	21.62
		25	0	20.49	20.53	20.77
		25	12	20.62	20.71	20.85
		25	25	20.48	20.69	20.72
		50	0	20.53	20.54	20.74
BW [MHz]	Modulation	Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5	QPSK	1	0	22.38	22.29	22.82
		1	12	22.46	22.52	22.80
		1	24	22.35	22.87	22.20
		12	0	21.41	21.43	21.58
		12	6	21.42	21.57	21.83
		12	13	21.48	21.70	21.80
		25	0	21.45	21.34	21.77
	16QAM	1	0	21.78	21.59	22.05
		1	12	21.72	21.80	21.97
		1	24	21.65	22.14	21.60
		12	0	20.46	20.38	20.69
		12	6	20.50	20.62	20.77
		12	13	20.39	20.63	20.57
		25	0	20.46	20.53	20.66



LTE Band 25						
BW [MHz]	Modulation	Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3	QPSK	1	0	22.40	22.28	22.78
		1	7	22.50	22.44	22.72
		1	14	22.41	22.78	22.16
		8	0	21.47	21.51	21.57
		8	3	21.48	21.54	21.70
		8	7	21.50	21.69	21.73
		15	0	21.35	21.38	21.67
	16QAM	1	0	21.68	21.62	22.00
		1	7	21.82	21.70	21.95
		1	14	21.70	22.14	21.60
		8	0	20.34	20.44	20.65
		8	3	20.55	20.65	20.70
		8	7	20.45	20.54	20.71
		15	0	20.50	20.41	20.69
BW [MHz]	Modulation	Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4	QPSK	1	0	22.59	22.50	22.86
		1	2	22.60	22.66	22.74
		1	5	22.37	22.85	22.39
		3	0	22.24	22.35	22.46
		3	1	22.42	22.50	22.58
		3	3	22.30	22.55	22.56
		6	0	21.48	21.58	21.78
	16QAM	1	0	21.80	21.76	22.19
		1	2	21.89	21.97	22.10
		1	5	21.73	22.14	21.67
		3	0	21.25	21.27	21.58
		3	1	21.54	21.56	21.58
		3	3	21.28	21.49	21.63



GPRS 1900						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
512	1850.2	29.42	1.63	31.05	1273.50	2
661	1880	29.22	1.63	30.85	1216.19	2
810	1909.8	29.82	1.63	31.45	1396.37	2

EDGE 1900						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
512	1850.2	25.77	1.63	27.40	549.54	2
661	1880	25.73	1.63	27.36	544.50	2
810	1909.8	26.19	1.63	27.82	605.34	2

WCDMA II						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
9262	1852.4	23.80	1.63	25.43	349.14	2
9400	1880	23.72	1.63	25.35	342.77	2
9538	1907.6	23.43	1.63	25.06	320.63	2



LTE Band 2							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	18700	1860	22.72	1.63	24.35	272.27	2
	18900	1880	22.73	1.63	24.36	272.90	2
	19100	1900	22.81	1.63	24.44	277.97	2
20M- 16QAM	18700	1860	22.12	1.63	23.75	237.14	2
	18900	1880	22.25	1.63	23.88	244.34	2
	19100	1900	22.18	1.63	23.81	240.44	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	18675	1857.5	22.61	1.63	24.24	265.46	2
	18900	1880	22.60	1.63	24.23	264.85	2
	19125	1902.5	22.69	1.63	24.32	270.40	2
15M- 16QAM	18675	1857.5	22.09	1.63	23.72	235.50	2
	18900	1880	22.15	1.63	23.78	238.78	2
	19125	1902.5	22.12	1.63	23.75	237.14	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	18650	1855	22.51	1.63	24.14	259.42	2
	18900	1880	22.58	1.63	24.21	263.63	2
	19150	1905	22.59	1.63	24.22	264.24	2
10M- 16QAM	18650	1855	22.04	1.63	23.67	232.81	2
	18900	1880	22.01	1.63	23.64	231.21	2
	19150	1905	22.06	1.63	23.69	233.88	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	18625	1852.5	22.50	1.63	24.13	258.82	2
	18900	1880	22.52	1.63	24.15	260.02	2
	19175	1907.5	22.64	1.63	24.27	267.30	2
5M-16QAM	18625	1852.5	22.03	1.63	23.66	232.27	2
	18900	1880	22.08	1.63	23.71	234.96	2
	19175	1907.5	22.04	1.63	23.67	232.81	2



LTE Band 2							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	18615	1851.5	22.47	1.63	24.10	257.04	2
	18900	1880	22.45	1.63	24.08	255.86	2
	19185	1908.5	22.57	1.63	24.20	263.03	2
3M-16QAM	18615	1851.5	21.93	1.63	23.56	226.99	2
	18900	1880	22.07	1.63	23.70	234.42	2
	19185	1908.5	21.97	1.63	23.60	229.09	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M- QPSK	18607	1850.7	22.61	1.63	24.24	265.46	2
	18900	1880	22.64	1.63	24.27	267.30	2
	19193	1909.3	22.68	1.63	24.31	269.77	2
1.4M- 16QAM	18607	1850.7	22.09	1.63	23.72	235.50	2
	18900	1880	22.21	1.63	23.84	242.10	2
	19193	1909.3	22.07	1.63	23.70	234.42	2



LTE Band 25							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	26140	1860	22.65	1.63	24.28	267.92	2
	26365	1882.5	22.96	1.63	24.59	287.74	2
	26590	1905	22.89	1.63	24.52	283.14	2
20M- 16QAM	26140	1860	21.91	1.63	23.54	225.94	2
	26365	1882.5	22.22	1.63	23.85	242.66	2
	26590	1905	22.21	1.63	23.84	242.10	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	26115	1857.5	22.60	1.63	24.23	264.85	2
	26365	1882.5	22.87	1.63	24.50	281.84	2
	26615	1907.5	22.83	1.63	24.46	279.25	2
15M- 16QAM	26115	1857.5	21.89	1.63	23.52	224.91	2
	26365	1882.5	22.14	1.63	23.77	238.23	2
	26615	1907.5	22.10	1.63	23.73	236.05	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	26090	1855	22.58	1.63	24.21	263.63	2
	26365	1882.5	22.93	1.63	24.56	285.76	2
	26640	1910	22.88	1.63	24.51	282.49	2
10M- 16QAM	26090	1855	21.84	1.63	23.47	222.33	2
	26365	1882.5	22.20	1.63	23.83	241.55	2
	26640	1910	22.12	1.63	23.75	237.14	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	26065	1852.5	22.46	1.63	24.09	256.45	2
	26365	1882.5	22.87	1.63	24.50	281.84	2
	26665	1912.5	22.82	1.63	24.45	278.61	2
5M-16QAM	26065	1852.5	21.78	1.63	23.41	219.28	2
	26365	1882.5	22.14	1.63	23.77	238.23	2
	26665	1912.5	22.05	1.63	23.68	233.35	2



LTE Band 25							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	26055	1851.5	22.50	1.63	24.13	258.82	2
	26365	1882.5	22.78	1.63	24.41	276.06	2
	26675	1913.5	22.78	1.63	24.41	276.06	2
3M-16QAM	26055	1851.5	21.82	1.63	23.45	221.31	2
	26365	1882.5	22.14	1.63	23.77	238.23	2
	26675	1913.5	22.00	1.63	23.63	230.67	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M- QPSK	26047	1850.7	22.60	1.63	24.23	264.85	2
	26365	1882.5	22.85	1.63	24.48	280.54	2
	26683	1914.3	22.86	1.63	24.49	281.19	2
1.4M- 16QAM	26047	1850.7	21.89	1.63	23.52	224.91	2
	26365	1882.5	22.14	1.63	23.77	238.23	2
	26683	1914.3	22.19	1.63	23.82	240.99	2

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



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

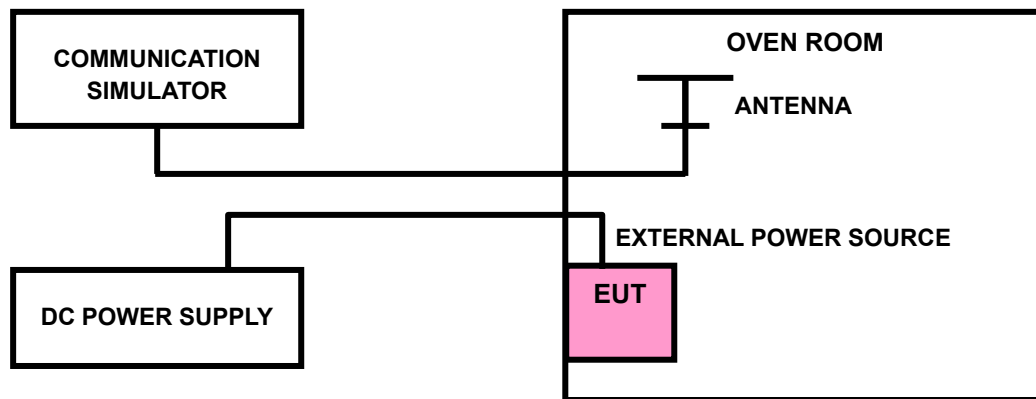
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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(3.2V); VN/NV = Normal voltage(3.7V); VH = High voltage(4.2V); NT = Normal temperature (25°C)

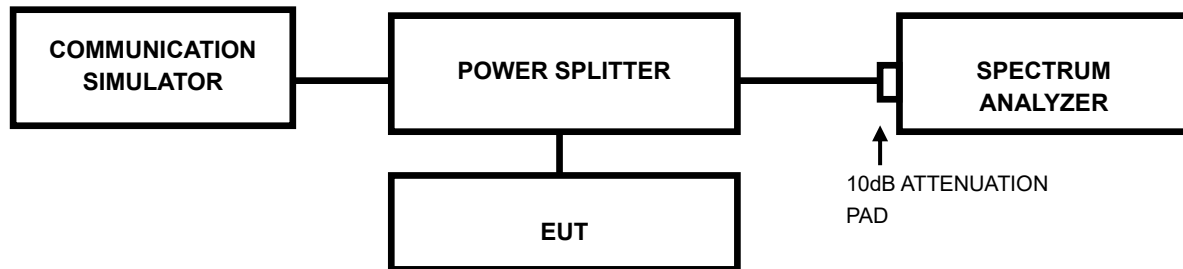


3.3 OCCUPIED BANDWIDTH MEASUREMENT

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.

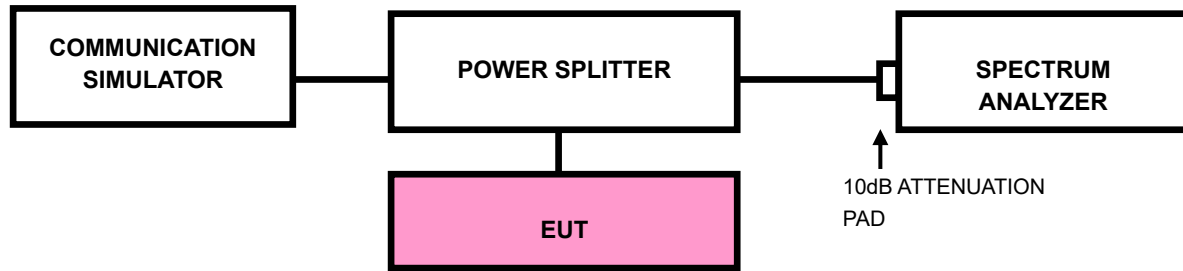


3.4 BAND EDGE MEASUREMENTC

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

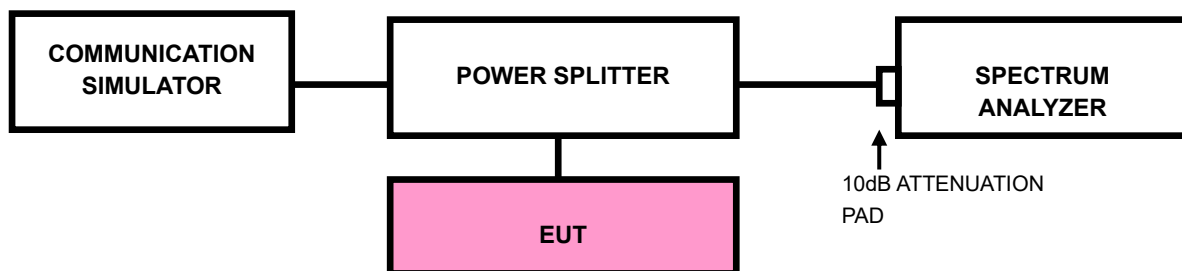
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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.

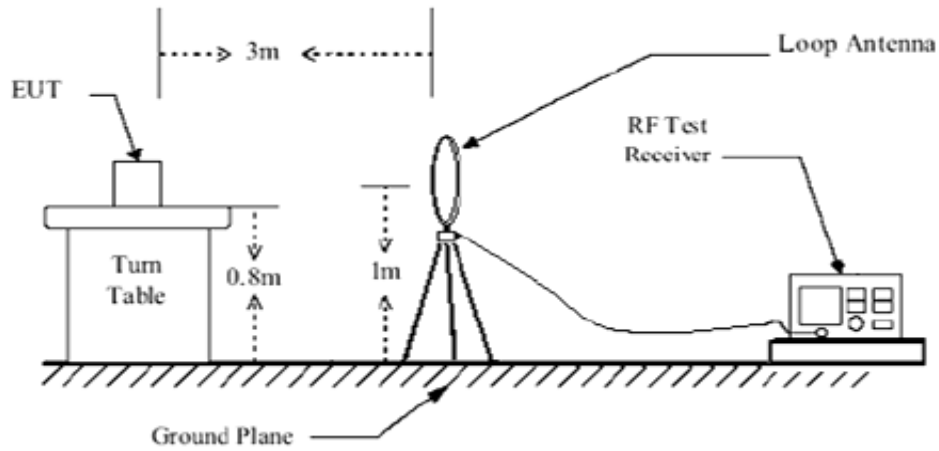
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

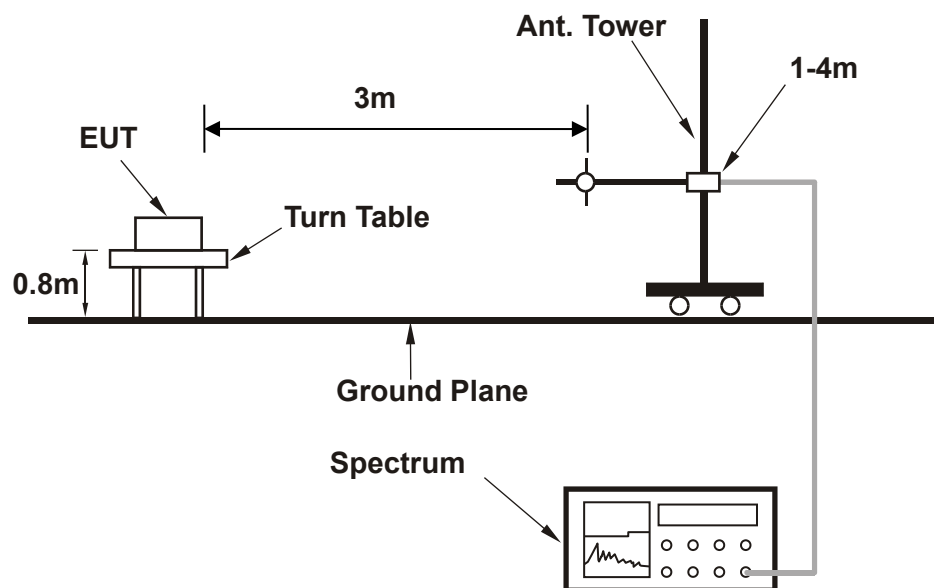


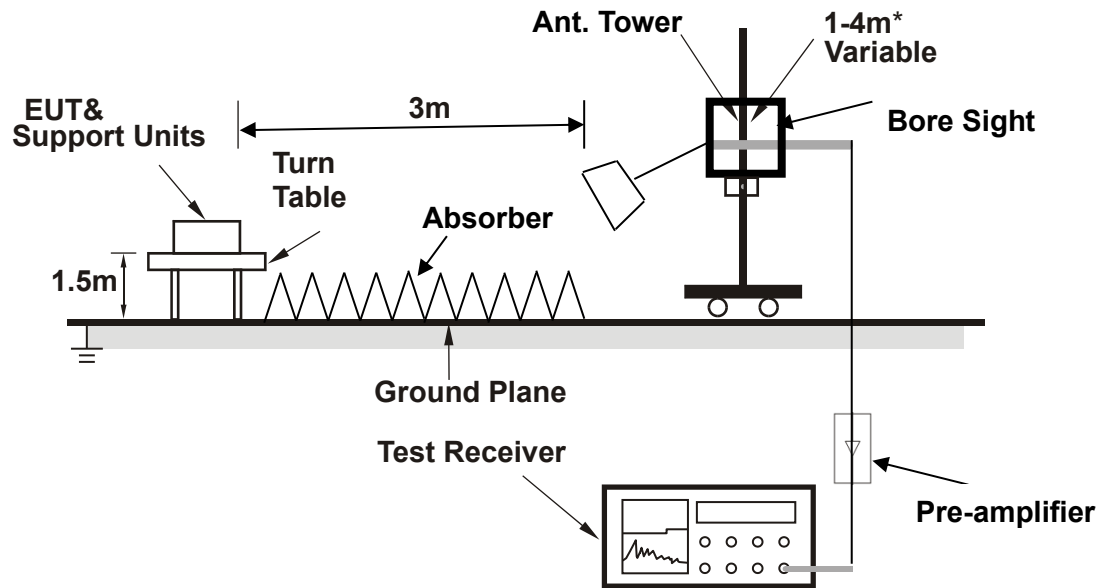
3.6.4 TEST SETUP

< 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.

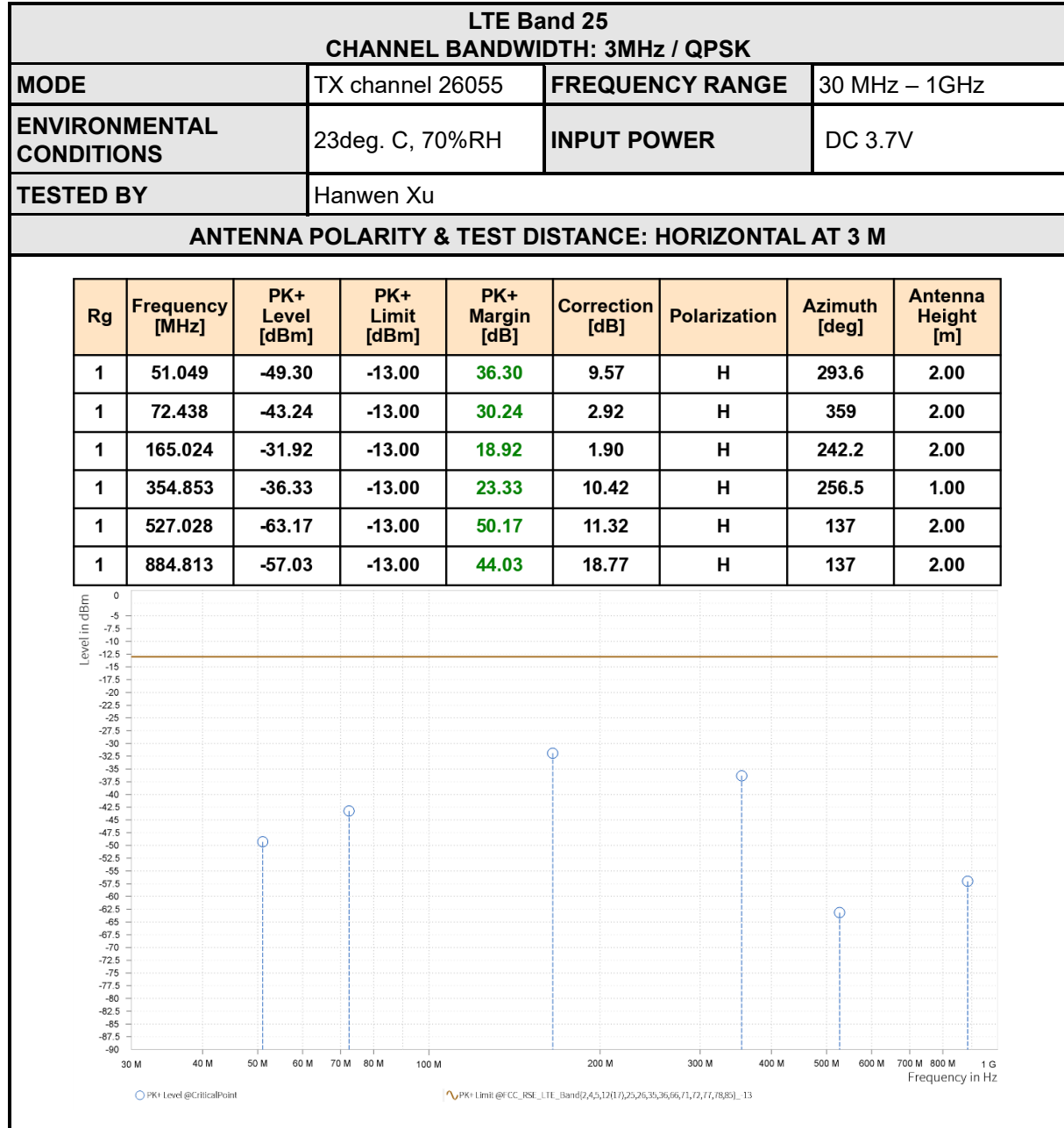
For the actual test configuration, please refer to the attached file (Test Setup Photo).



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

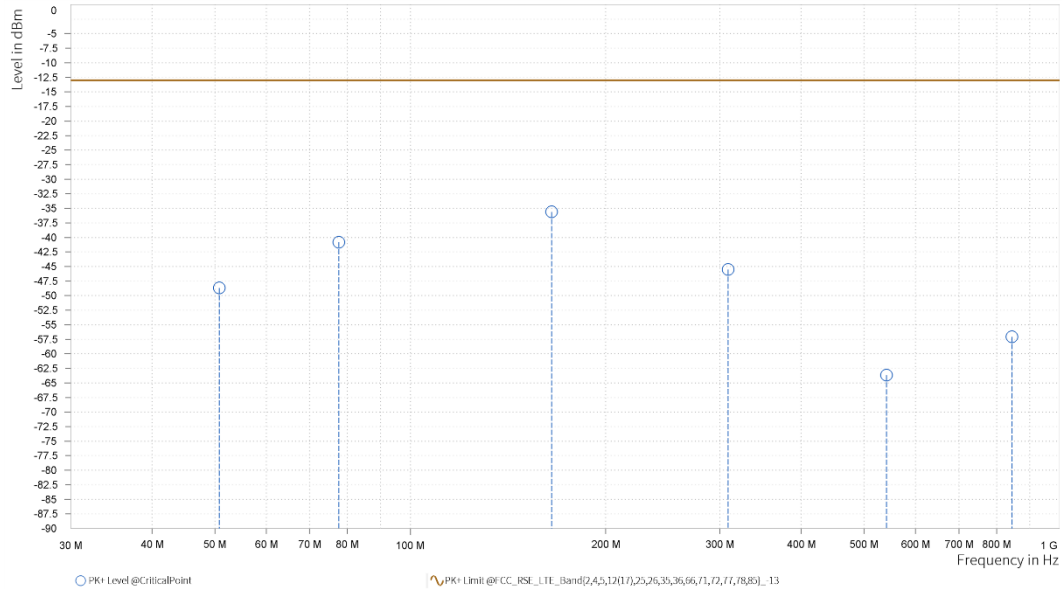




MODE	TX channel 26055	FREQUENCY RANGE	30 MHz – 1GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		

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]
1	50.807	-48.68	-13.00	35.68	9.72	V	206.2	2.00
1	77.627	-40.82	-13.00	27.82	3.88	V	206.2	2.00
1	165.024	-35.61	-13.00	22.61	4.14	V	153.8	2.00
1	308.584	-45.50	-13.00	32.50	9.59	V	153.8	2.00
1	541.578	-63.67	-13.00	50.67	10.97	V	157.4	1.00
1	844.946	-57.09	-13.00	44.09	18.44	V	0.9	2.00





ABOVE 1GHz DATA

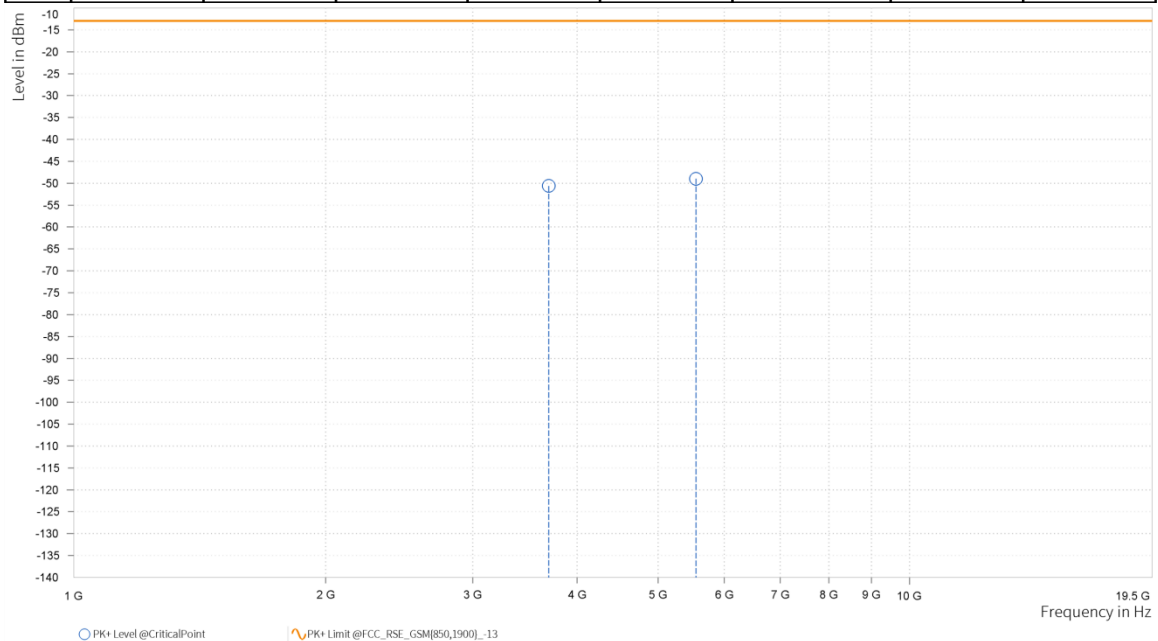
Note: For higher frequency, the emission is too low to be detected.

PCS 1900

MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

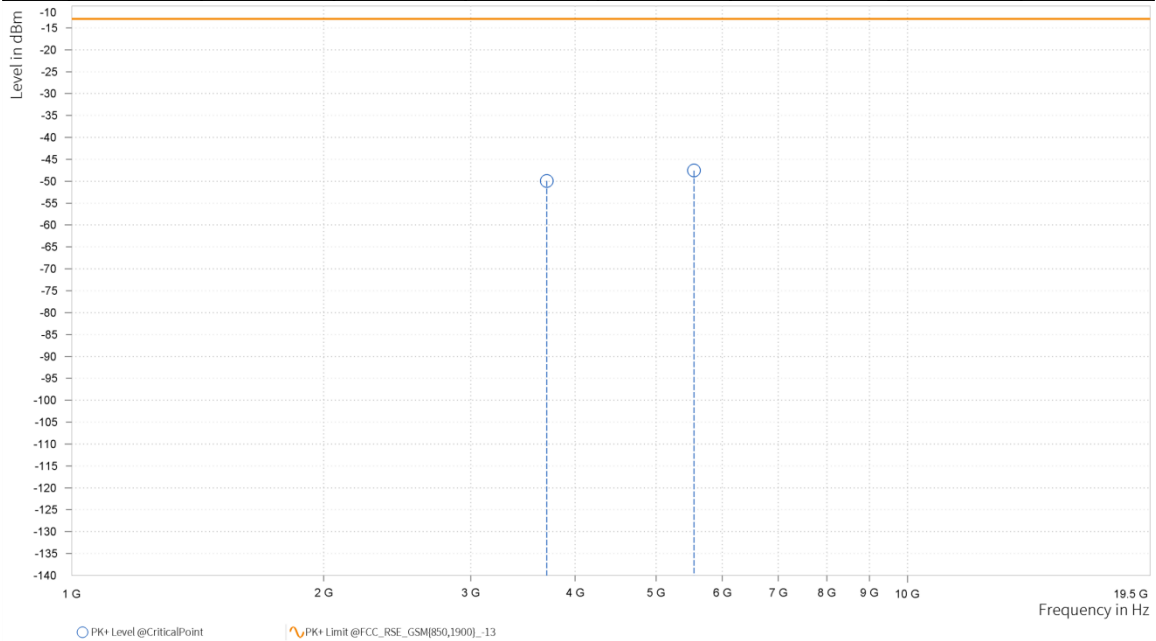
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,700.400	-50.61	-13.00	37.61	21.11	H	359	2.00
4	5,550.600	-48.98	-13.00	35.98	24.26	H	237.1	1.00





MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
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]
4	3,700.400	-49.92	-13.00	36.92	21.71	V	265.8	1.00
4	5,550.600	-47.57	-13.00	34.57	24.96	V	0.9	2.00

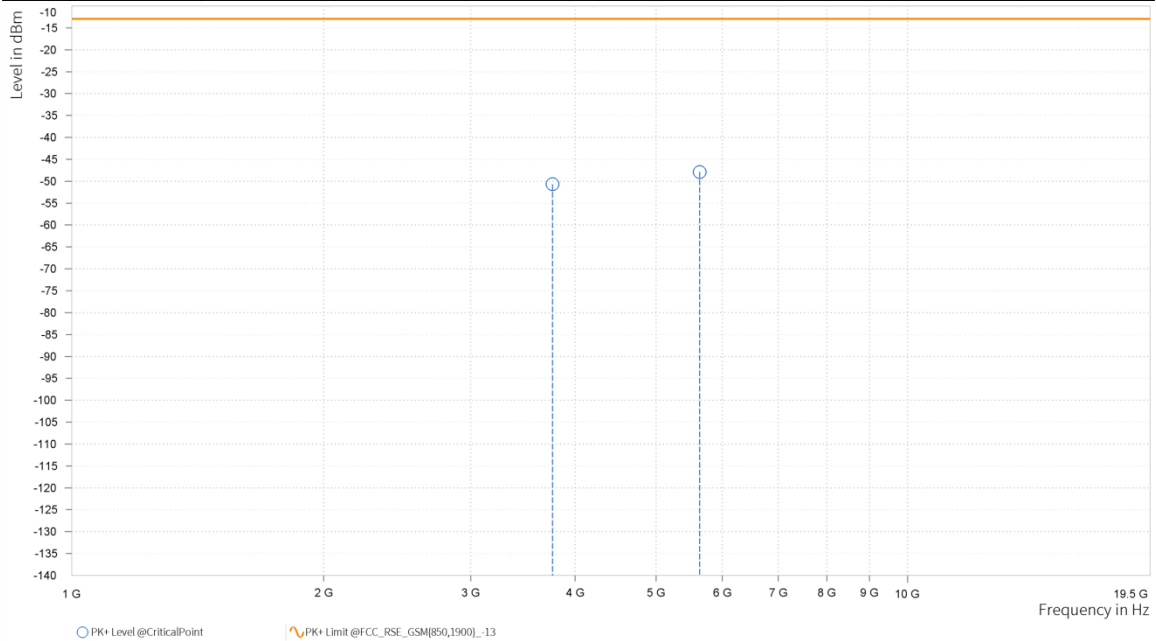




MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

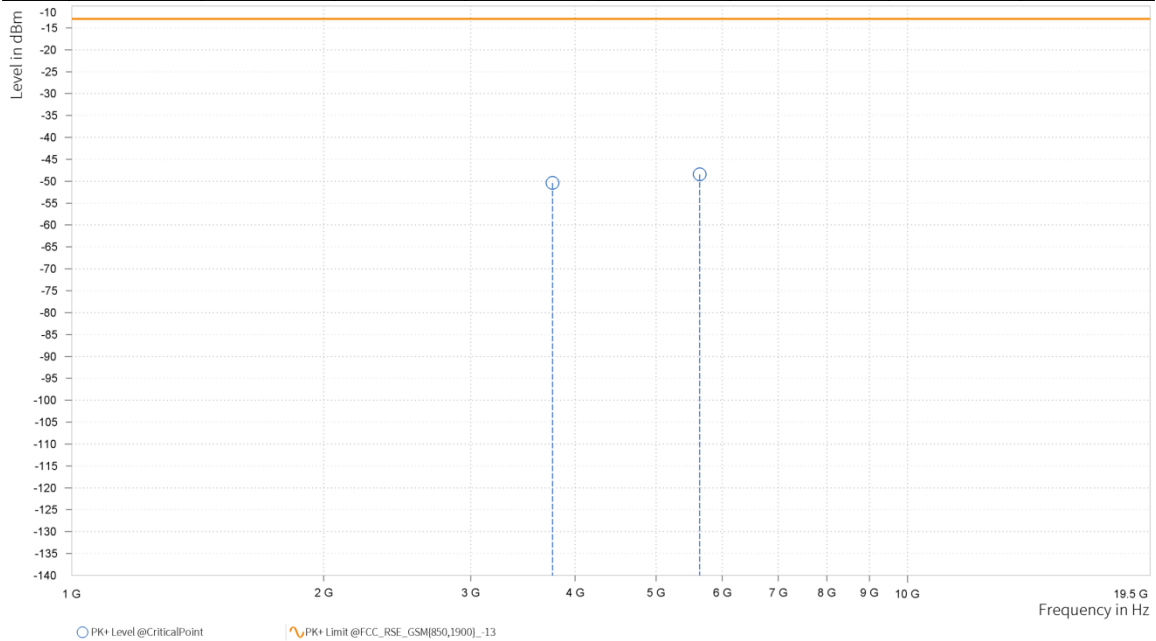
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,760.000	-50.67	-13.00	37.67	21.64	H	1	1.00
4	5,640.000	-47.90	-13.00	34.90	24.79	H	237.1	1.00





MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
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]
4	3,760.000	-50.39	-13.00	37.39	22.13	V	1	1.00
4	5,640.000	-48.45	-13.00	35.45	25.13	V	359	2.00

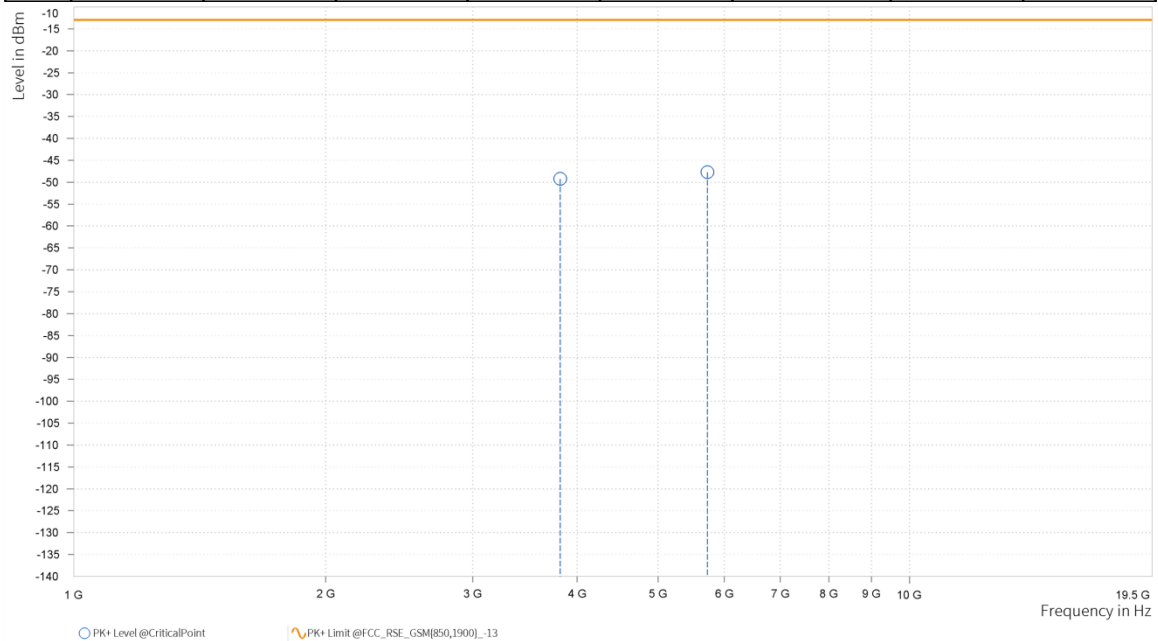




MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

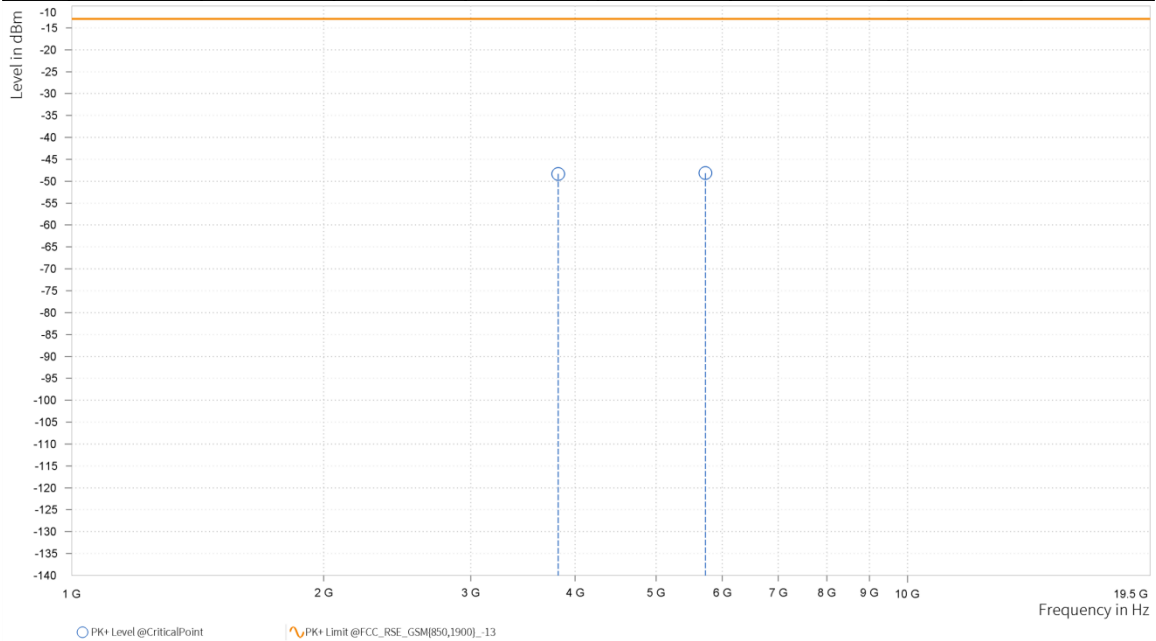
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,819.600	-49.23	-13.00	36.23	22.23	H	0.9	2.00
4	5,729.400	-47.72	-13.00	34.72	25.33	H	0.9	2.00

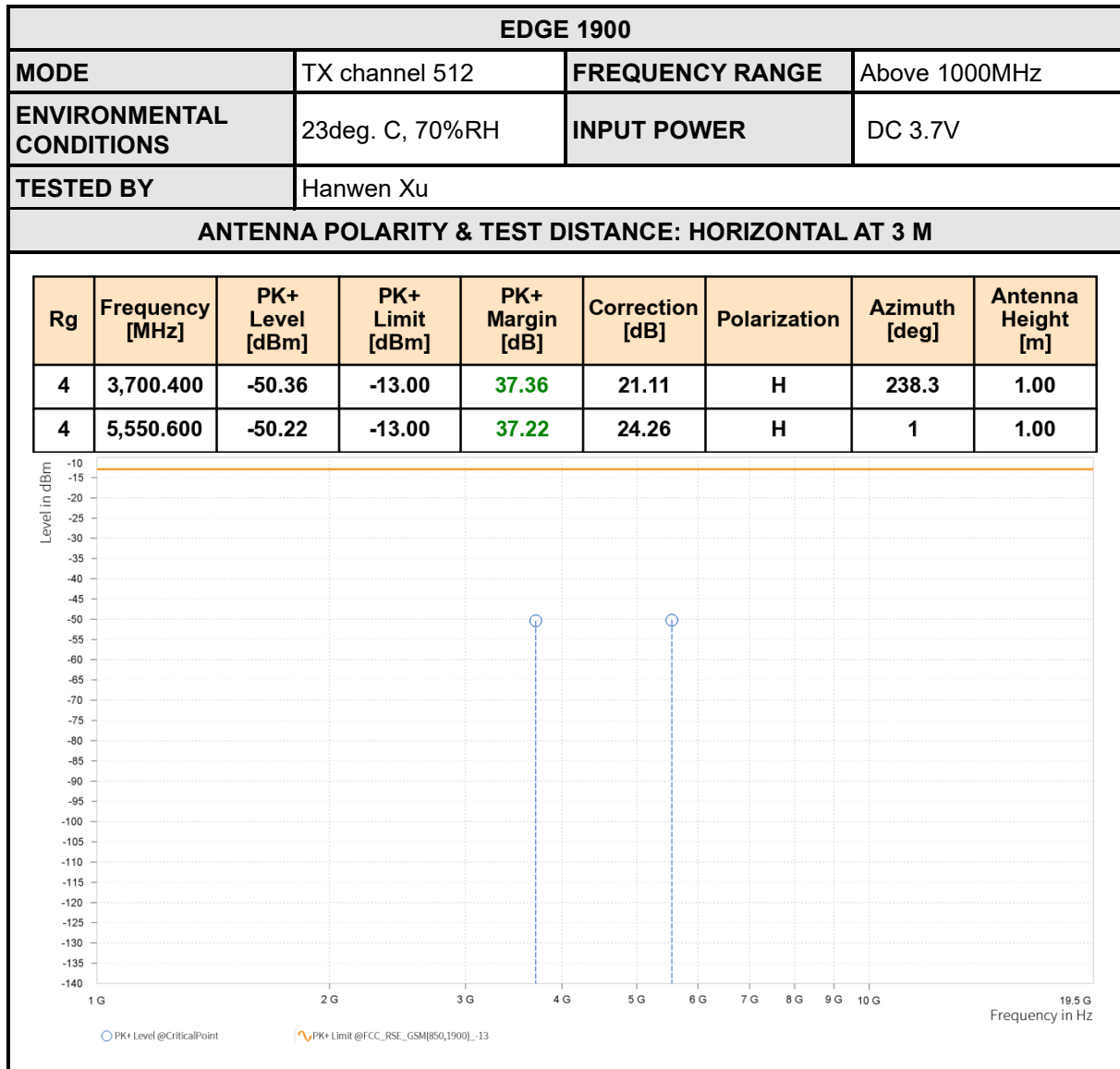




MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,819.600	-48.34	-13.00	35.34	22.58	V	359	2.00
4	5,729.400	-48.15	-13.00	35.15	25.79	V	359	2.00

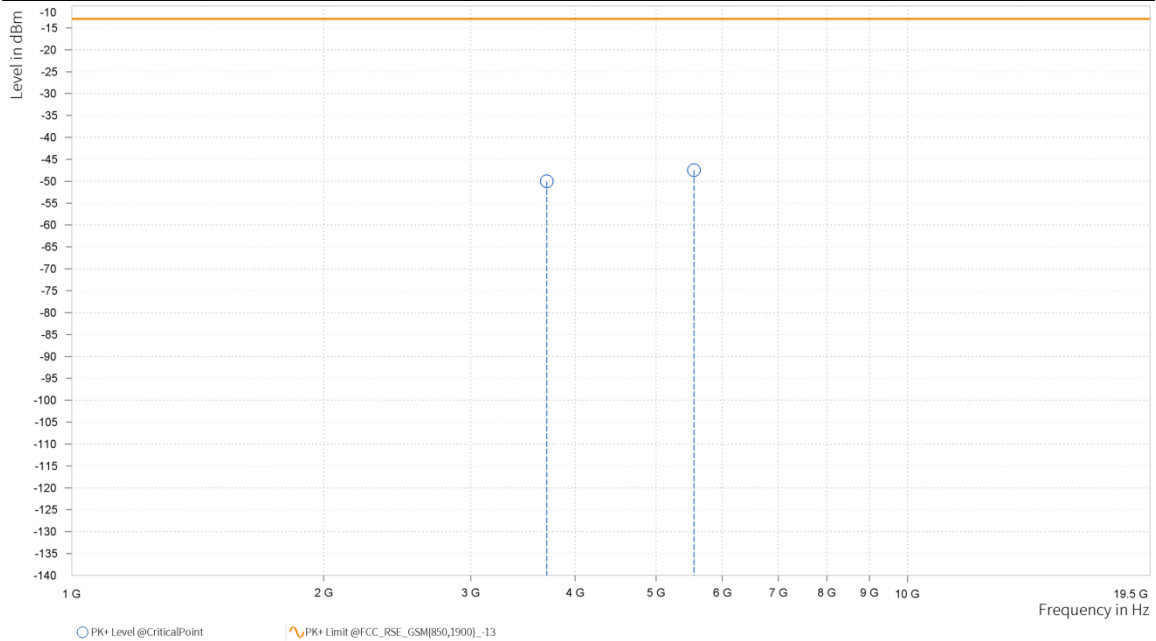






MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

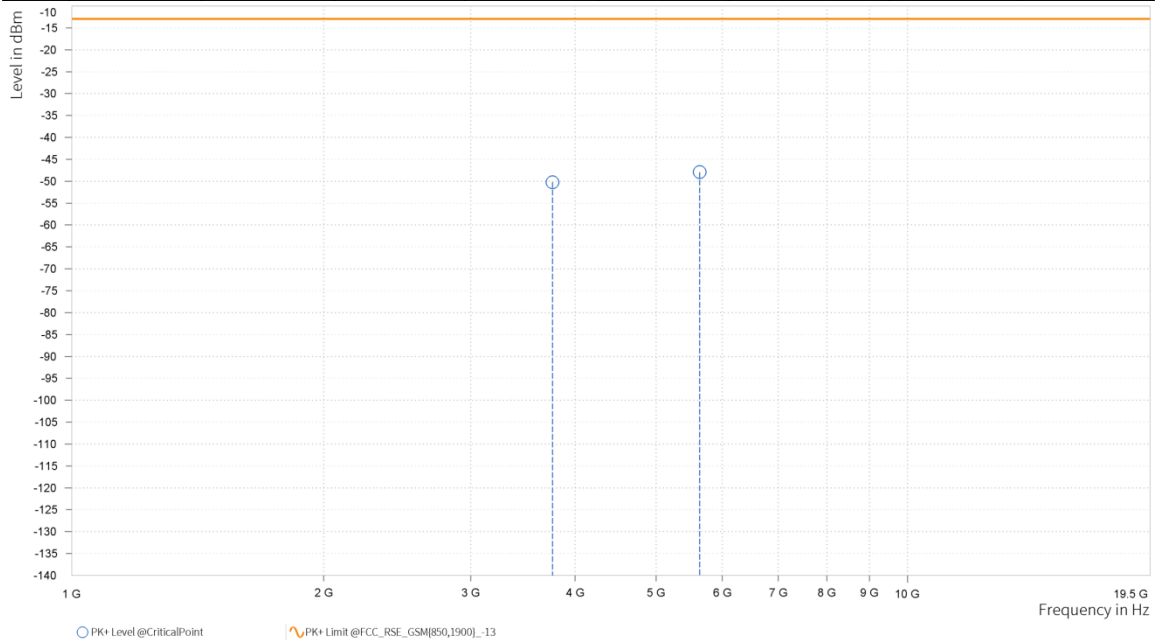
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,700.400	-50.05	-13.00	37.05	21.71	V	124.1	2.00
4	5,550.600	-47.45	-13.00	34.45	24.96	V	359	2.00





MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

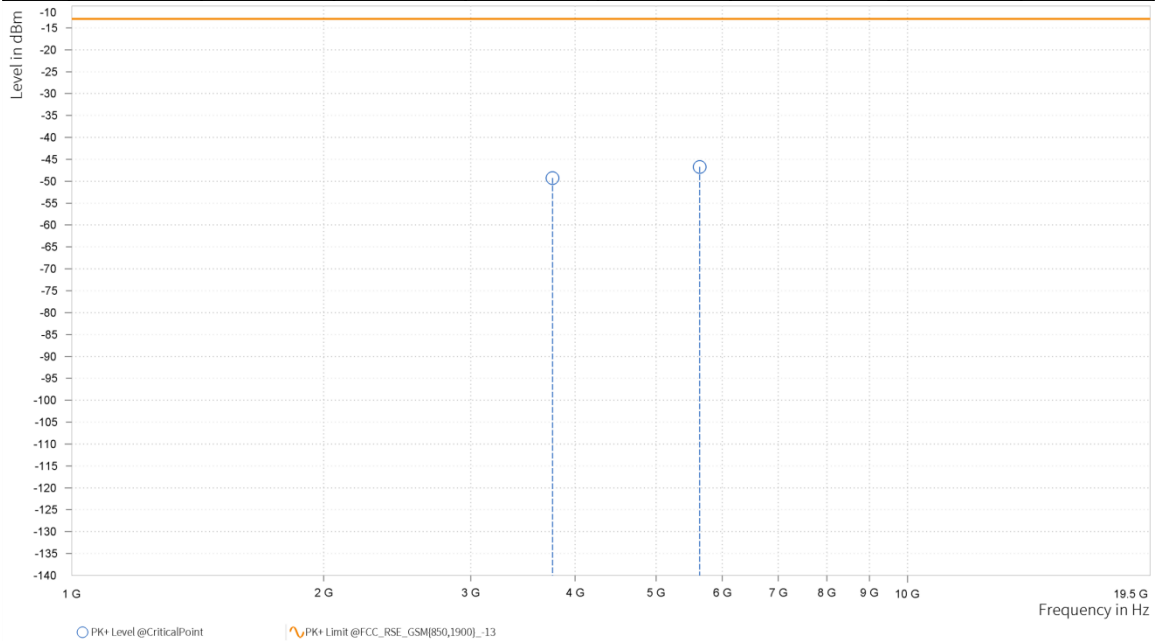
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,760.000	-50.20	-13.00	37.20	21.64	H	359.1	1.00
4	5,640.000	-47.93	-13.00	34.93	24.79	H	359.1	1.00





MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
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]
4	3,760.000	-49.29	-13.00	36.29	22.13	V	359.1	1.00
4	5,640.000	-46.72	-13.00	33.72	25.13	V	359.1	1.00

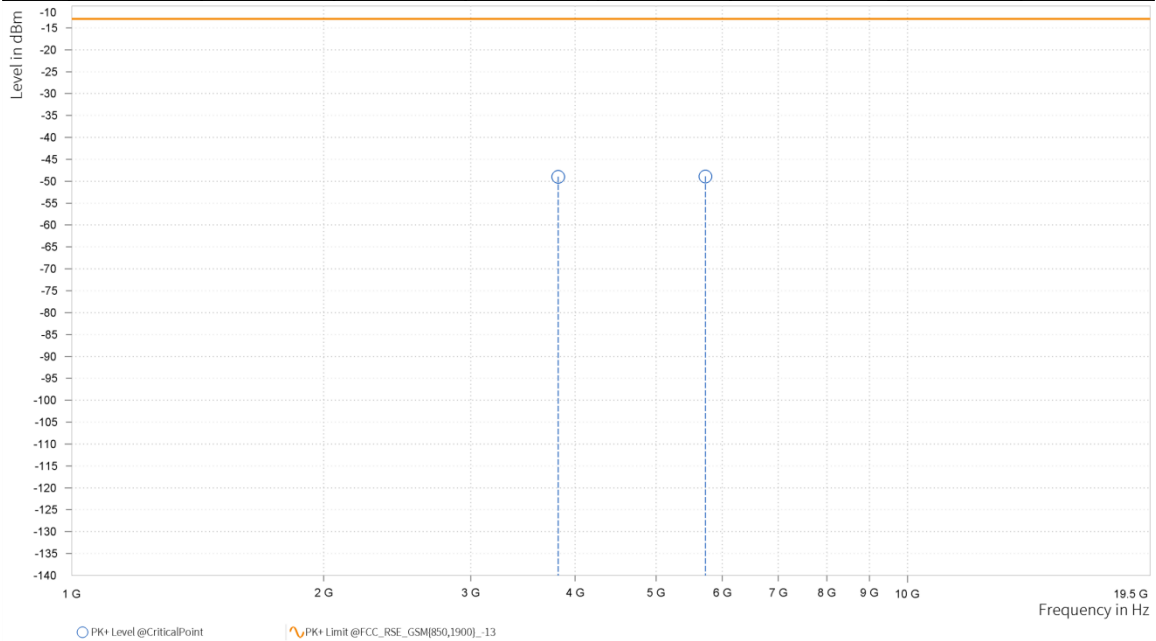




MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

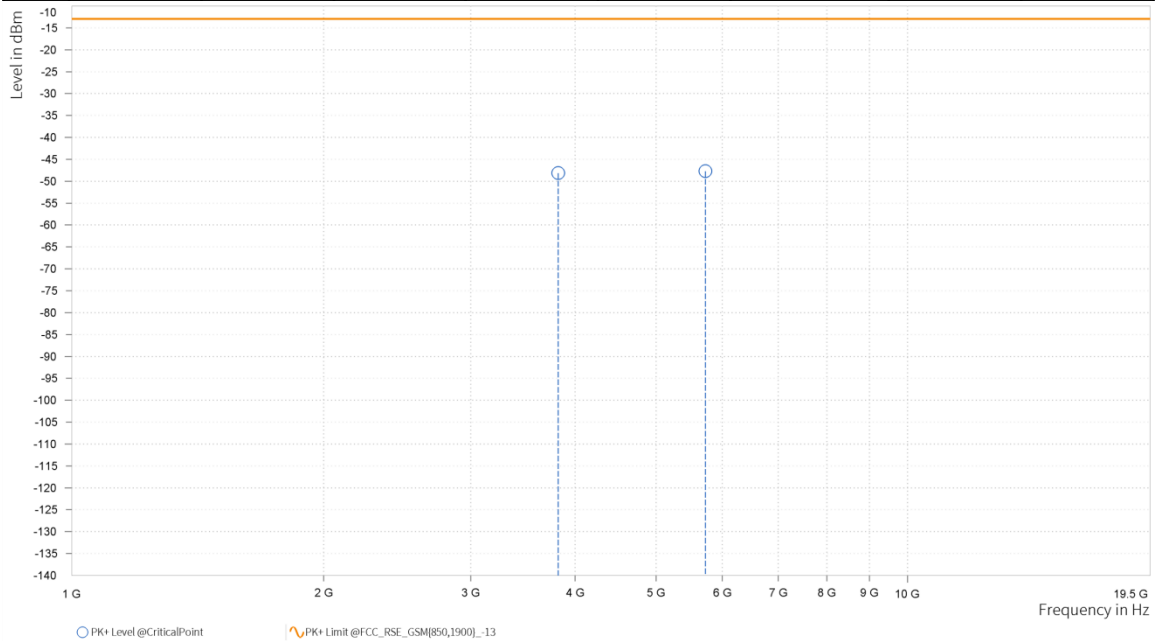
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,819.600	-48.97	-13.00	35.97	22.23	H	238.2	1.00
4	5,729.400	-48.92	-13.00	35.92	25.33	H	121.6	2.00

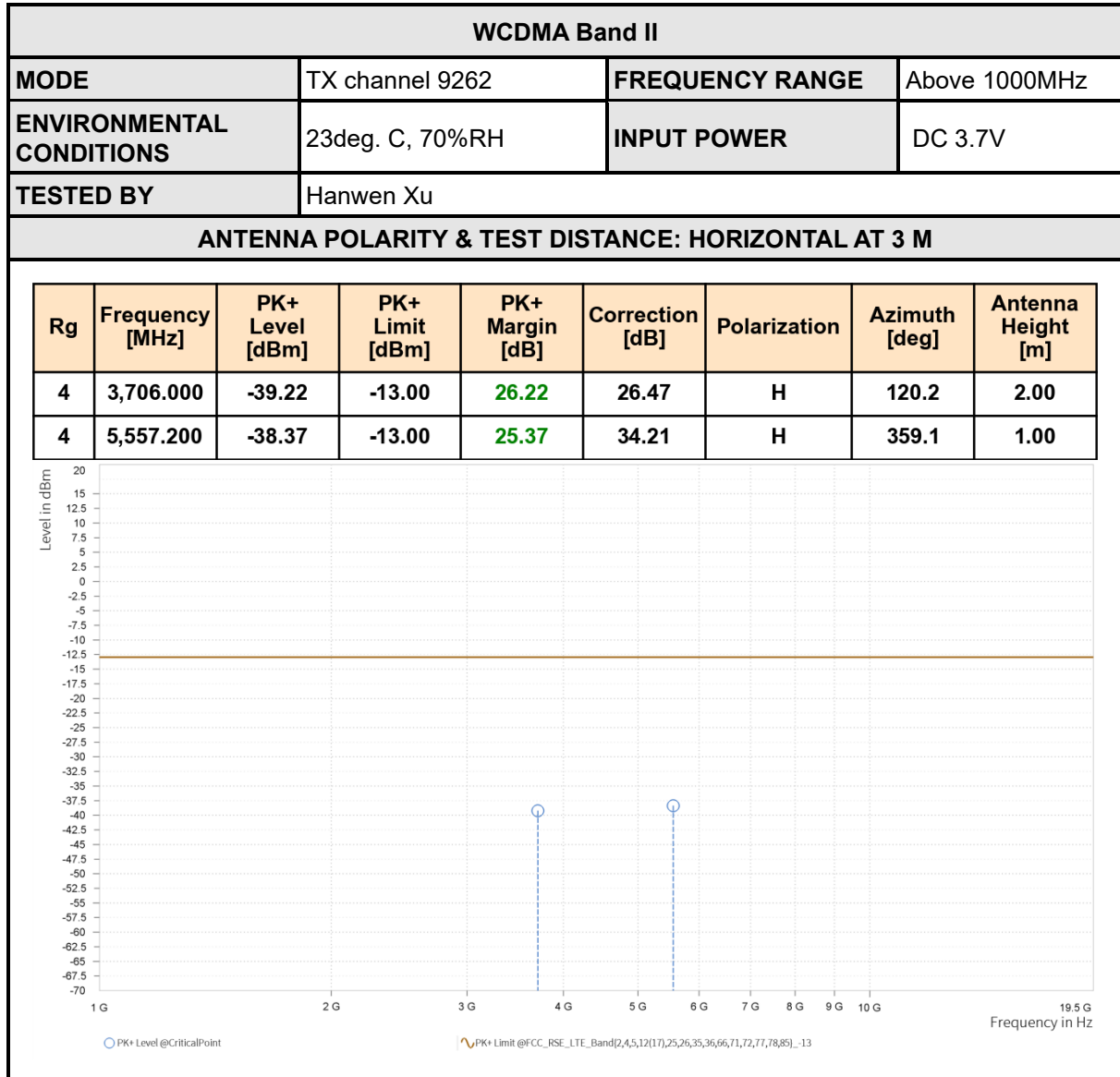




MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,819.600	-48.13	-13.00	35.13	22.58	V	359	1.00
4	5,729.400	-47.71	-13.00	34.71	25.79	V	296.8	1.00



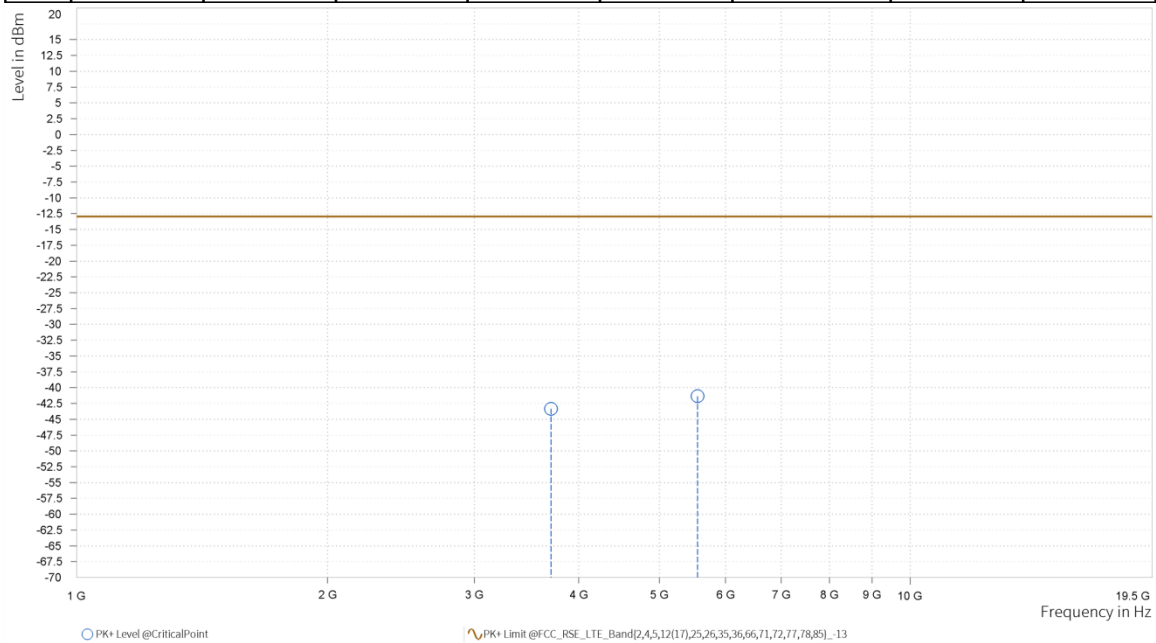




MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

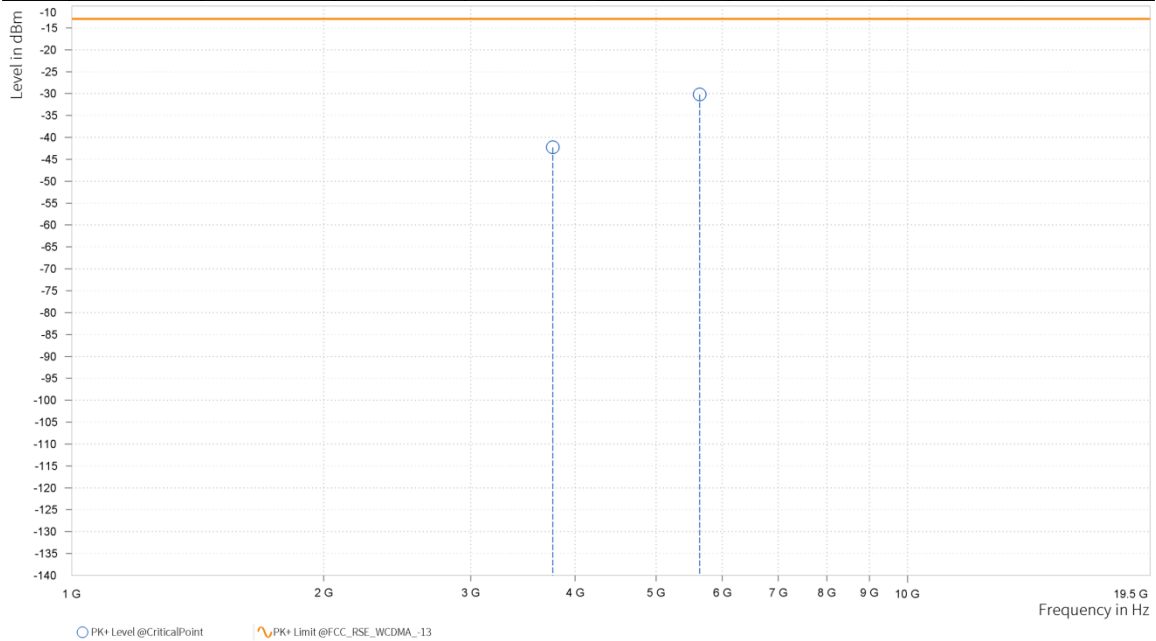
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,707.000	-43.35	-13.00	30.35	26.30	V	120.2	2.00
4	5,557.200	-41.35	-13.00	28.35	33.96	V	0.9	2.00





MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

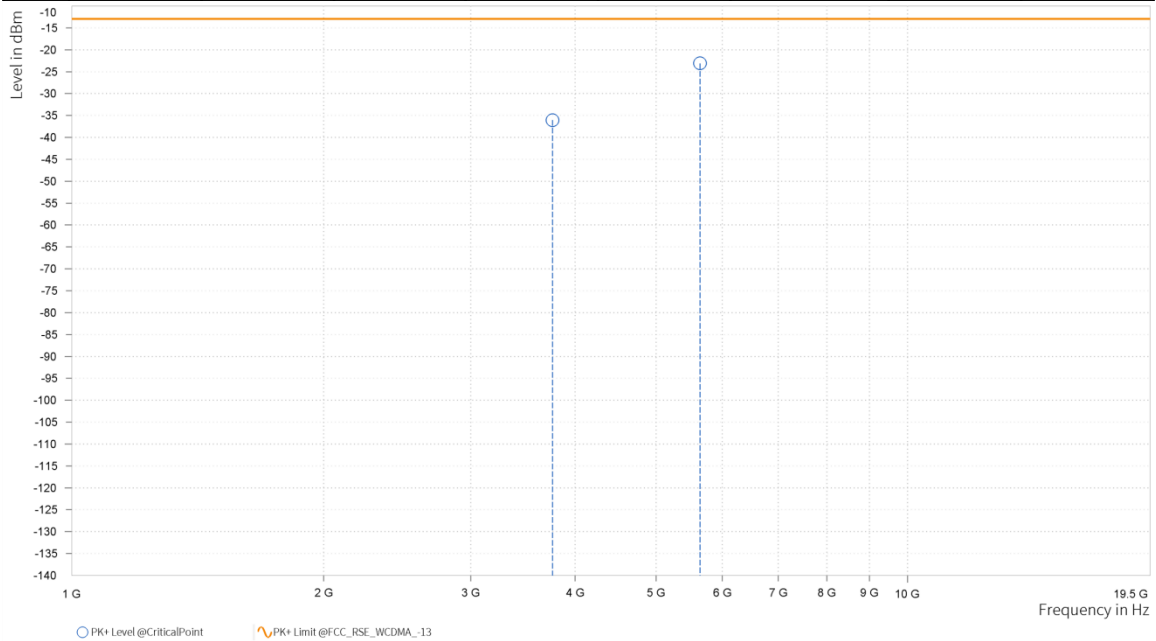
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,761.000	-42.25	-13.00	29.25	21.66	H	359	2.00
4	5,637.500	-30.19	-13.00	17.19	24.78	H	103.1	2.00





MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

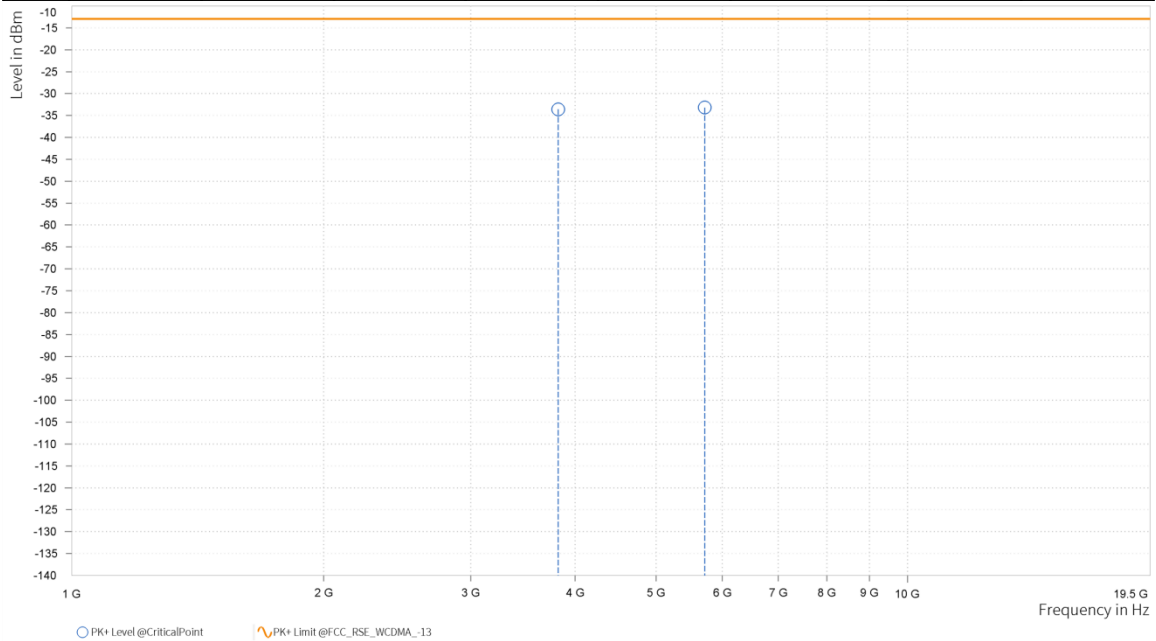
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,758.000	-36.04	-13.00	23.04	22.11	V	43.8	2.00
4	5,641.000	-23.08	-13.00	10.08	25.14	V	103.8	2.00





MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

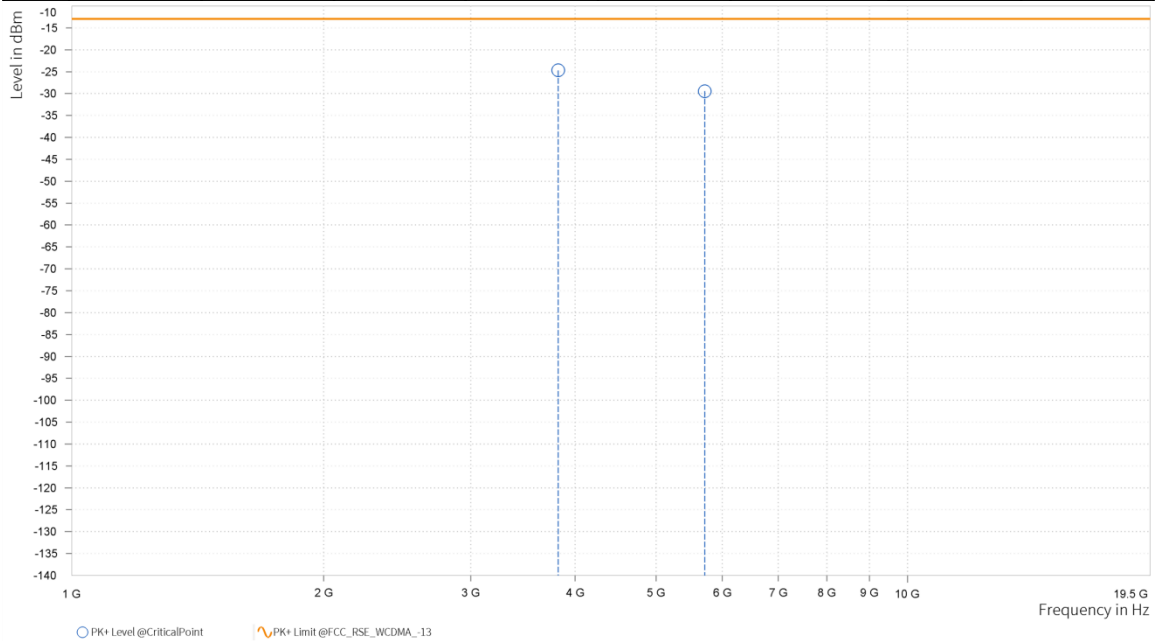
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,817.500	-33.58	-13.00	20.58	22.23	H	201.6	1.00
4	5,720.000	-33.19	-13.00	20.19	25.26	H	102.5	2.00

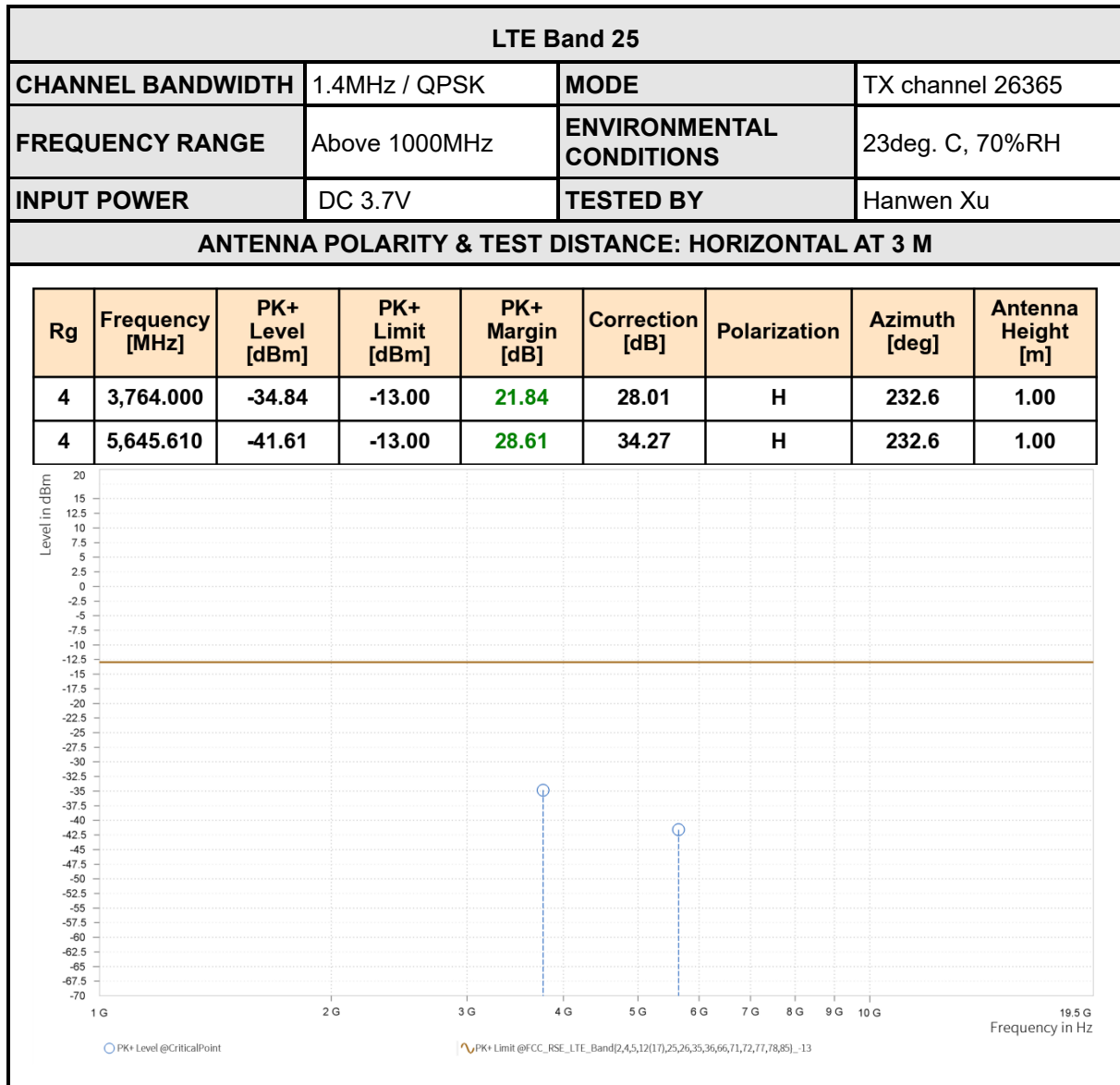




MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 3.7V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,817.000	-24.68	-13.00	11.68	22.56	V	104.6	1.00
4	5,719.500	-29.43	-13.00	16.43	25.70	V	104.6	1.00



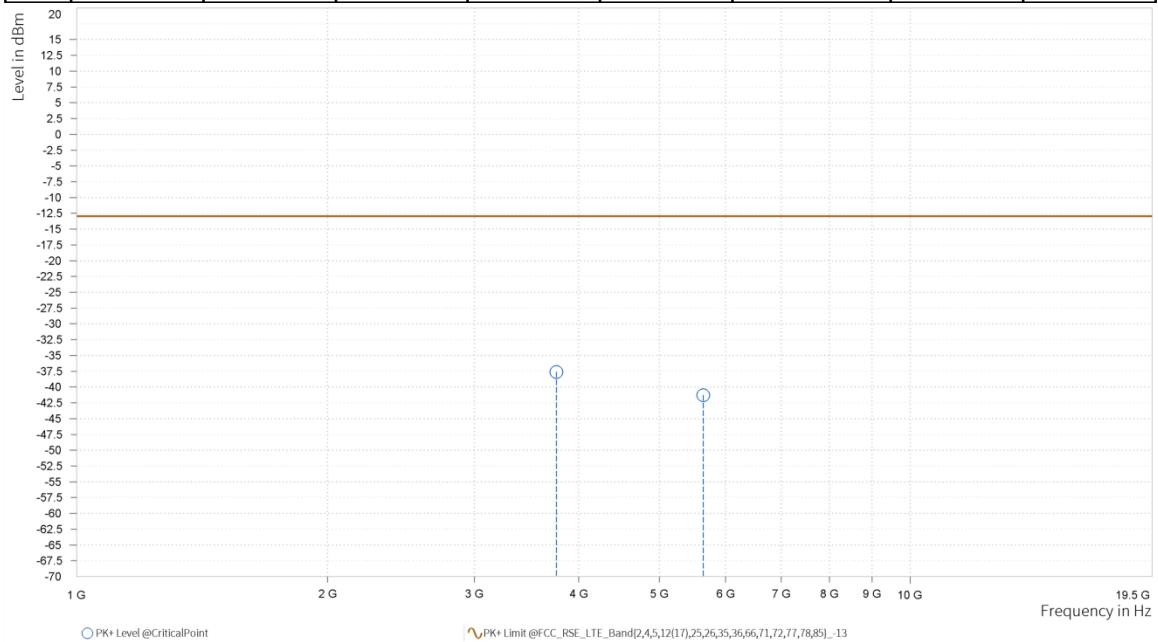




CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 3.7V	TESTED BY	Hanwen Xu

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]
4	3,763.500	-37.62	-13.00	24.62	27.71	V	122.6	2.00
4	5,645.610	-41.27	-13.00	28.27	34.00	V	359	2.00



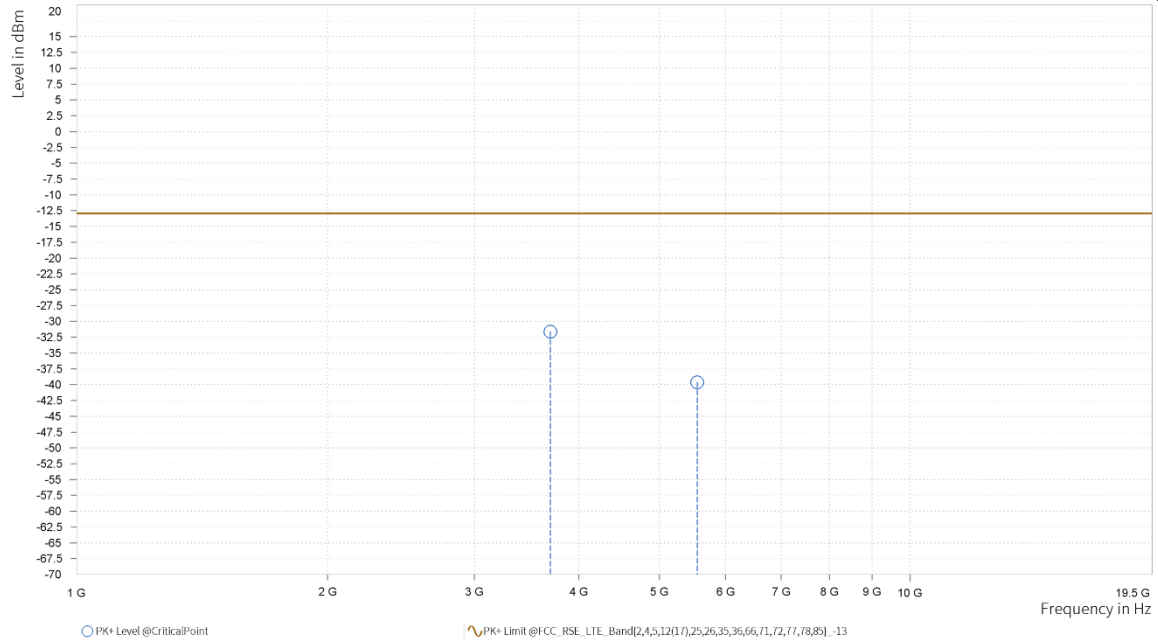


CH26055

CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 26055
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 3.7V	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]
4	3,700.000	-31.62	-13.00	18.62	26.33	H	241	1.00
4	5,550.450	-39.61	-13.00	26.61	34.64	H	359	2.00

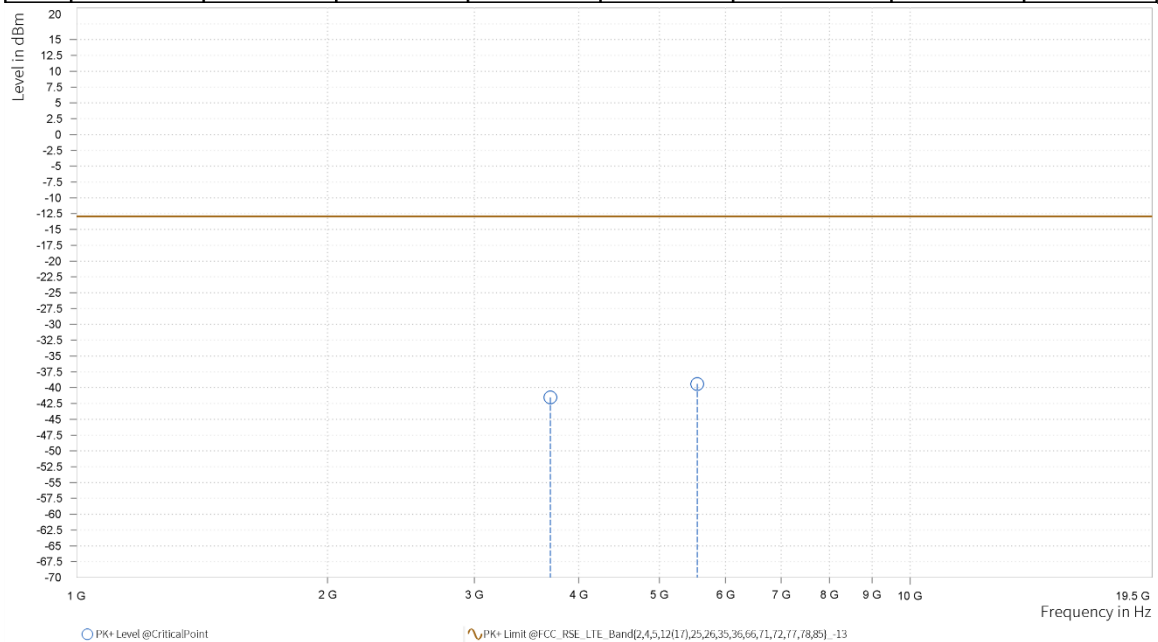




CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 26055
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 3.7V	TESTED BY	Hanwen Xu

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]
4	3,700.000	-41.55	-13.00	28.55	26.15	V	237.4	1.00
4	5,550.450	-39.41	-13.00	26.41	34.38	V	1	2.00



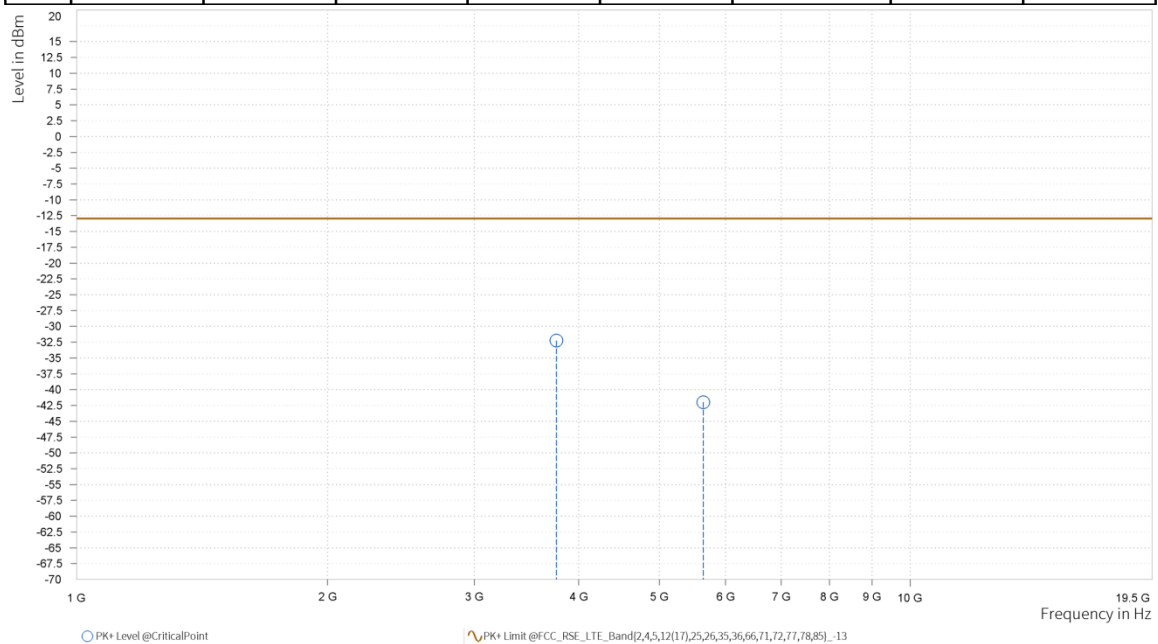


CH26365

CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 3.7V	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]
4	3,762.500	-32.24	-13.00	19.24	28.08	H	237.4	1.00
4	5,643.450	-41.99	-13.00	28.99	34.26	H	359.1	1.00

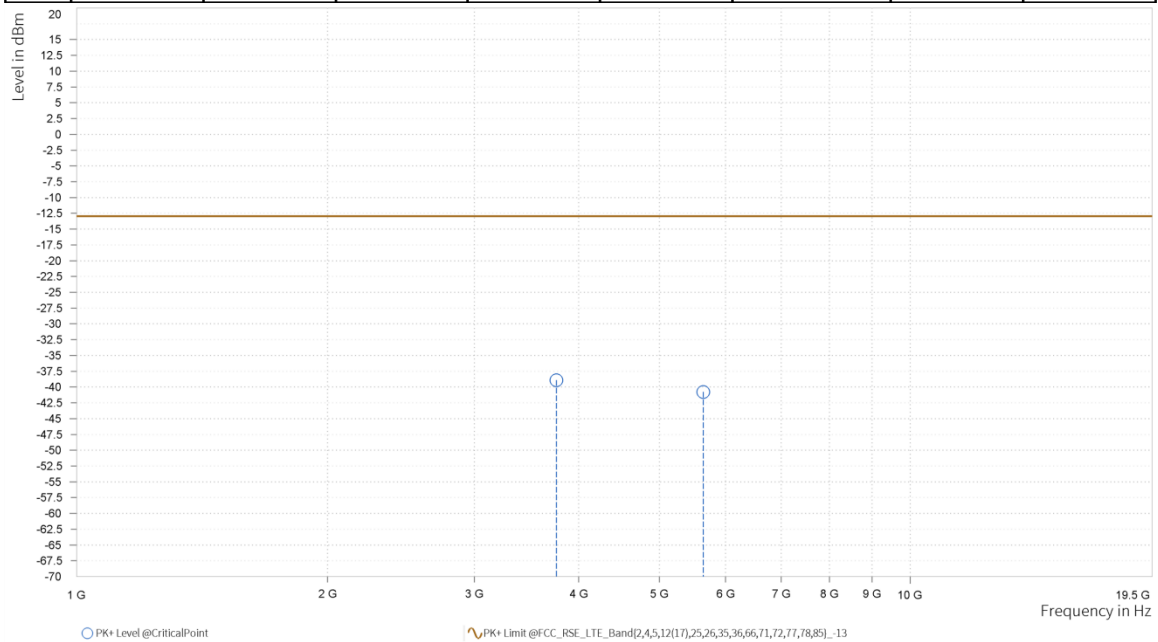




CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 3.7V	TESTED BY	Hanwen Xu

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]
4	3,762.500	-38.91	-13.00	25.91	27.77	V	123.8	2.00
4	5,643.450	-40.79	-13.00	27.79	33.99	V	1	1.00

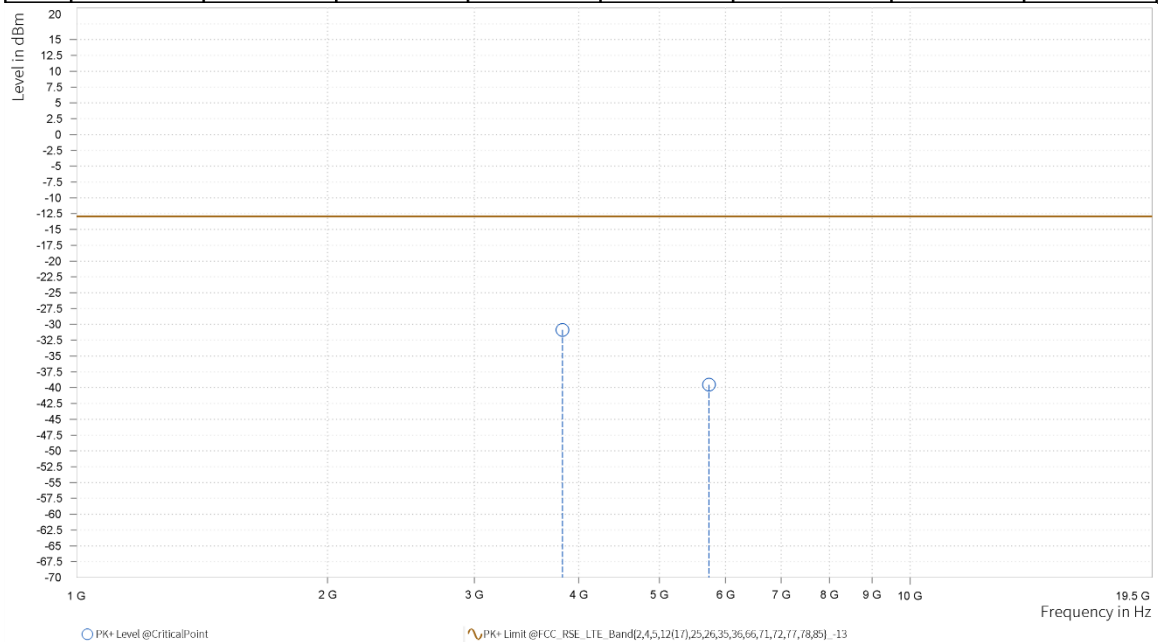




CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 26675
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 3.7V	TESTED BY	Hanwen Xu

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]
4	3,824.500	-30.86	-13.00	17.86	27.94	H	247	1.00
4	5,736.450	-39.55	-13.00	26.55	34.78	H	247	1.00

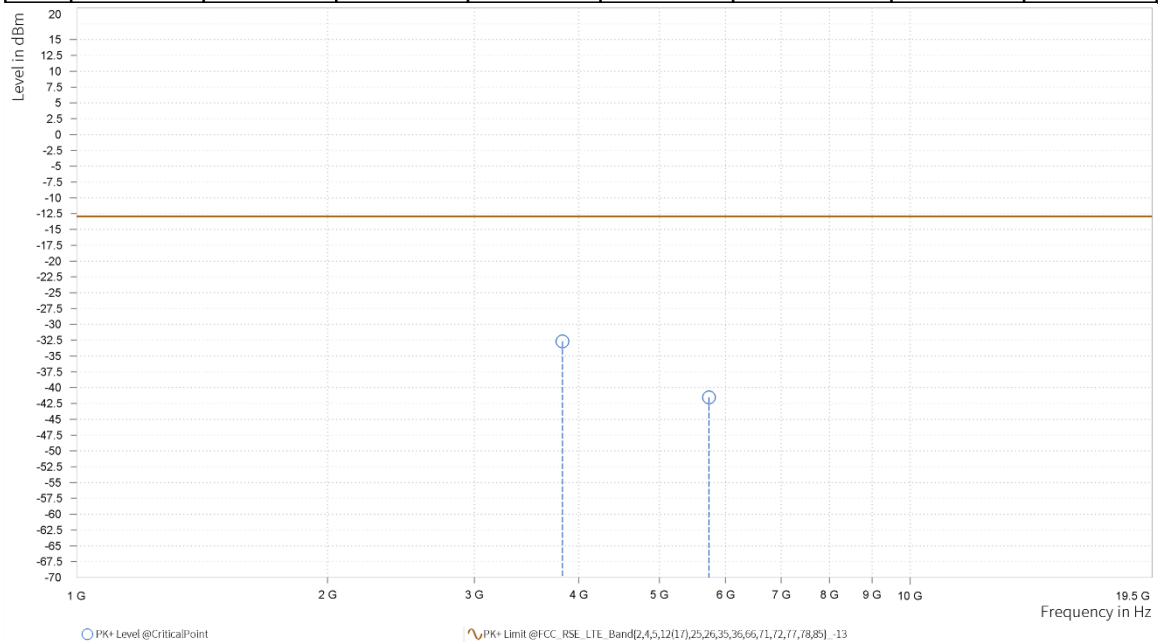




CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 26675
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 3.7V	TESTED BY	Hanwen Xu

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]
4	3,824.000	-32.68	-13.00	19.68	27.67	V	117.9	2.00
4	5,736.450	-41.52	-13.00	28.52	34.53	V	117.9	2.00

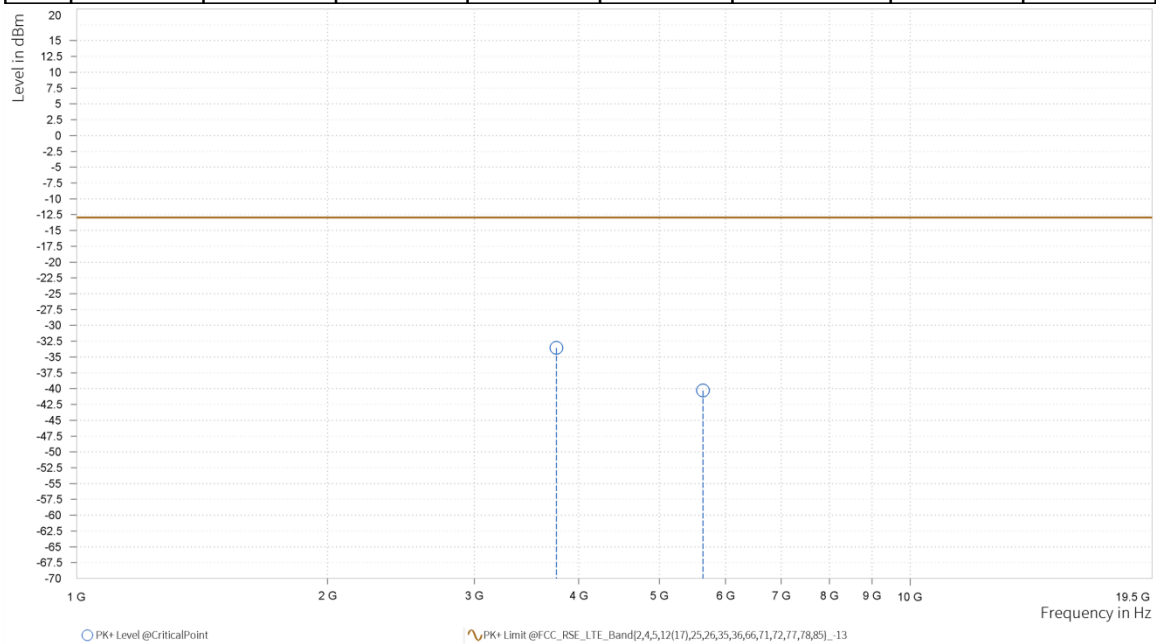




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 3.7V	TESTED BY	Hanwen Xu

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]
4	3,760.500	-33.56	-13.00	20.56	28.18	H	233.8	1.00
4	5,640.750	-40.31	-13.00	27.31	34.24	H	122.6	2.00

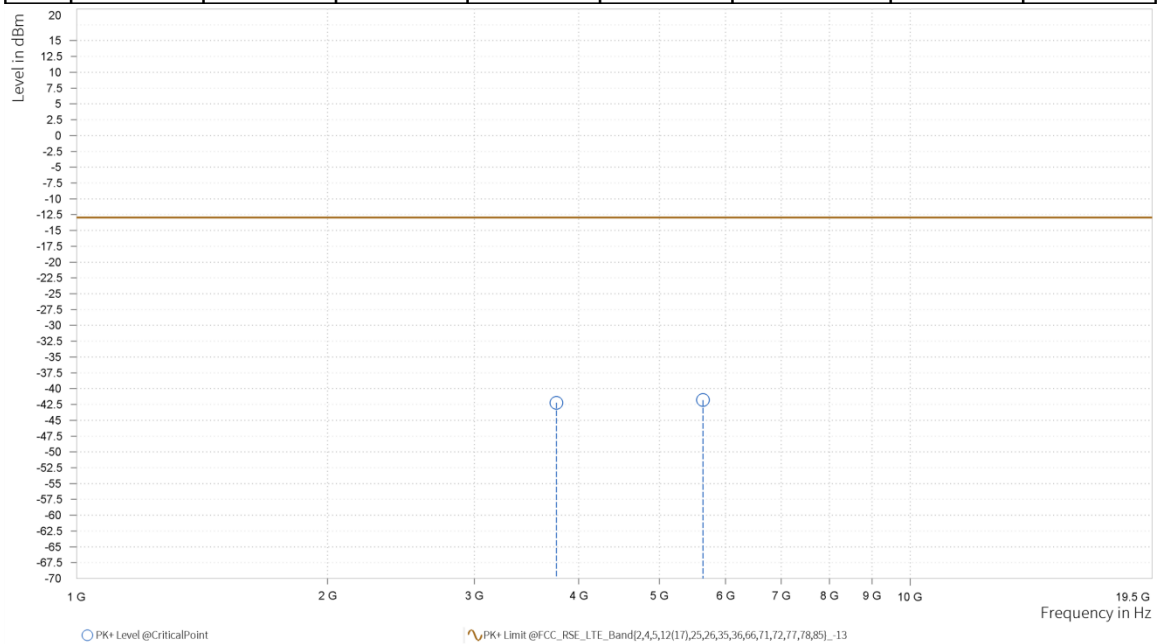




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 3.7V	TESTED BY	Hanwen Xu

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]
4	3,760.500	-42.23	-13.00	29.23	27.87	V	0.9	2.00
4	5,640.750	-41.80	-13.00	28.80	33.98	V	0.9	2.00

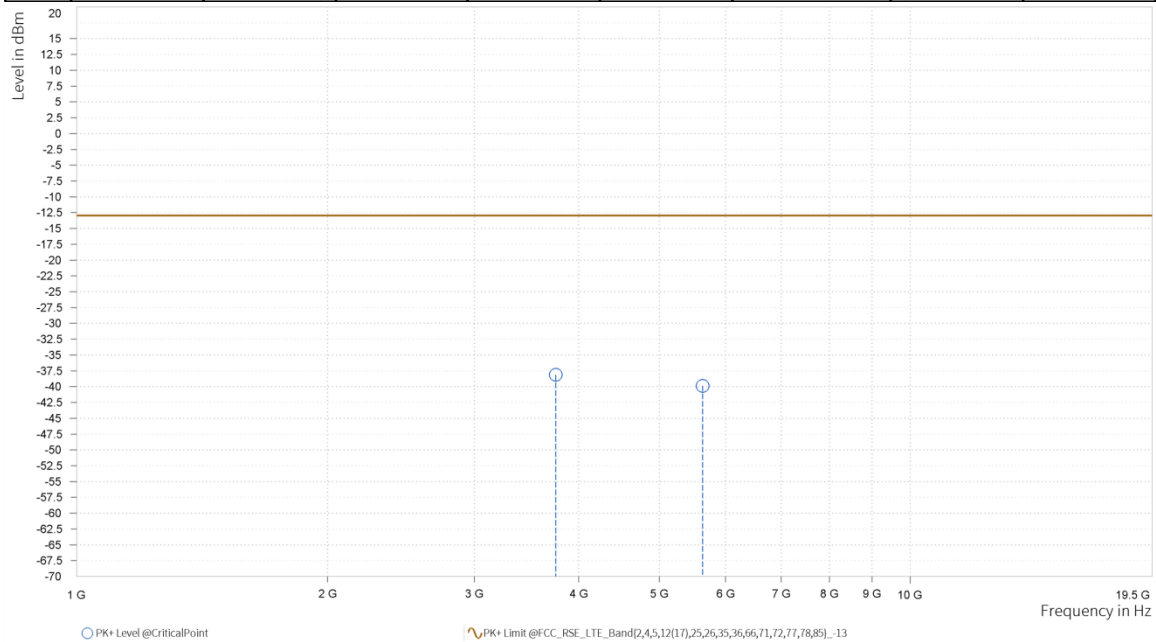




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 3.7V	TESTED BY	Hanwen Xu

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]
4	3,756.000	-38.15	-13.00	25.15	27.65	H	66.5	2.00
4	5,634.000	-39.86	-13.00	26.86	35.38	H	1	1.00

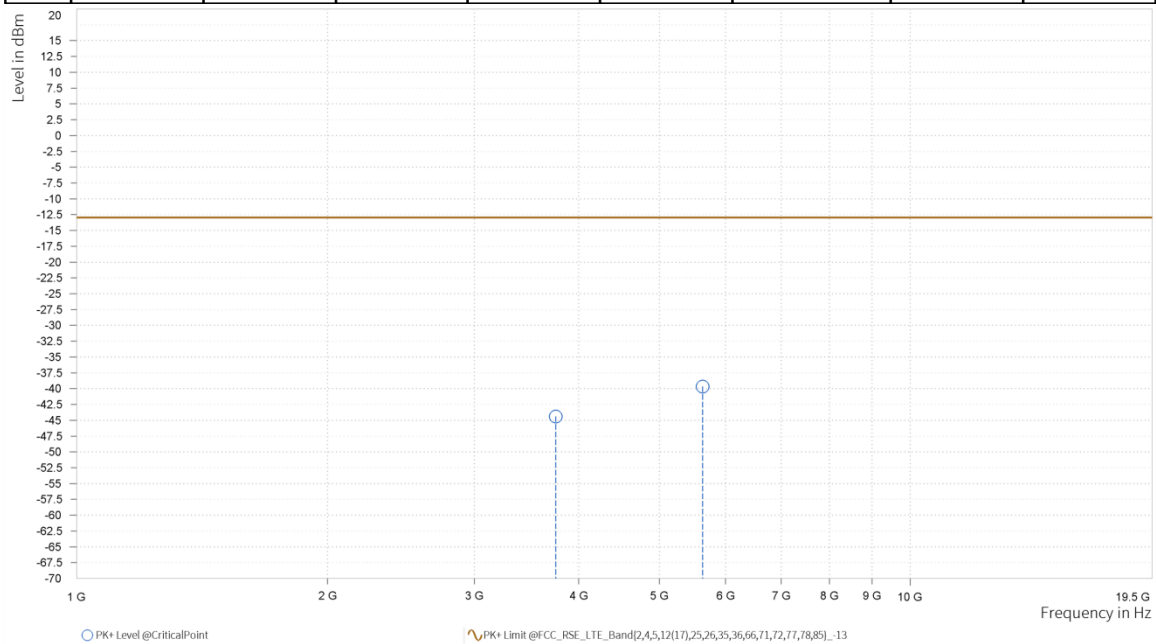




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 3.7V	TESTED BY	Hanwen Xu

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]
4	3,756.000	-44.38	-13.00	31.38	27.35	V	254.2	1.00
4	5,634.000	-39.66	-13.00	26.66	35.12	V	359.1	1.00

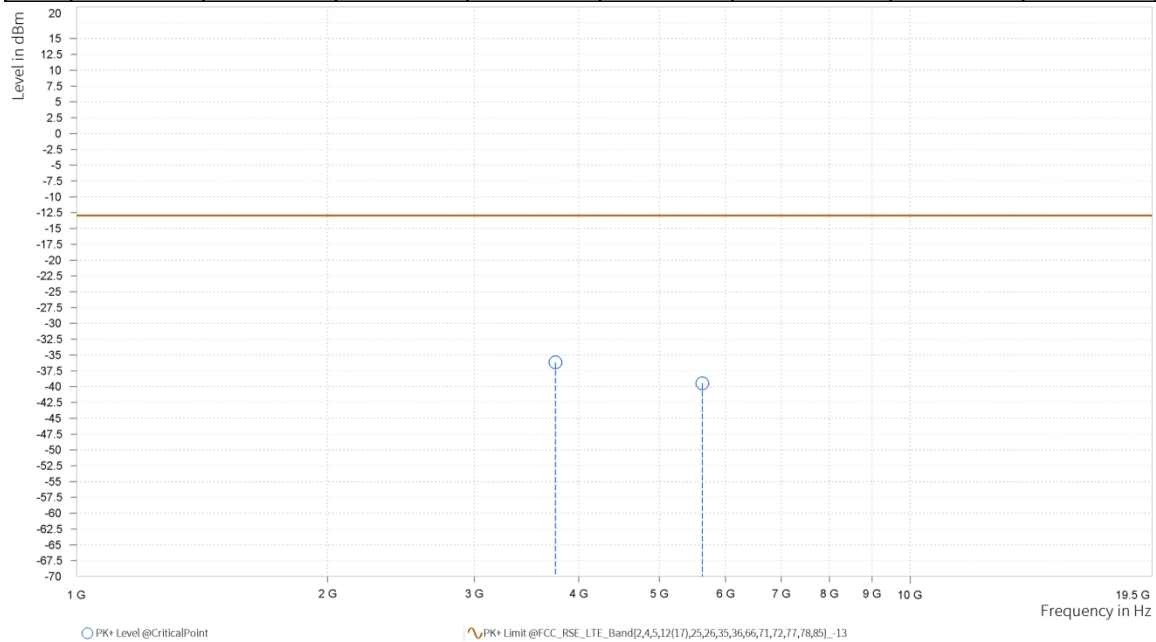




CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 3.7V	TESTED BY	Hanwen Xu

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]
4	3,751.500	-36.16	-13.00	23.16	27.02	H	237.4	1.00
4	5,627.250	-39.48	-13.00	26.48	35.77	H	0.9	2.00





CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 3.7V	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]
4	3,751.500	-42.02	-13.00	29.02	26.73	V	117.8	2.00
4	5,627.250	-39.87	-13.00	26.87	35.51	V	1	1.00

