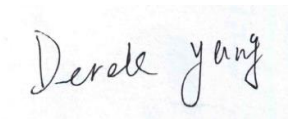
FCC TEST REPORT

Application No:	HR/2019/40012
Applicant:	Huawei Technologies Co., Ltd.
Address of Applicant	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Manufacturer:	Huawei Technologies Co., Ltd.
Address of Manufacturer	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
EUT Description:	Smart Phone
Model No.:	VOG-L29m / VOG-L09m
Trade Mark:	HUAWEI
FCC ID:	QISVOG-LX9M
Standards:	47 CFR Part 2 47 CFR Part 27 subpart C
Test Method:	FCC KDB 971168 D01 Power Meas License Digital Systems V03r01 C63.26 (2015)
Date of Receipt:	2019/4/17
Date of Test:	2019/4/17 to 2019/5/6
Date of Issue:	2019/5/6
Test Result:	**PASS ***

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Derek Yang
Wireless Laboratory Manager

1 Version

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
00		2019/5/6		Original

Authorized for issue by:				
Tested By		Mike Hu **(Mike Hu) /Project Engineer**		2019/5/6 **Date**
Checked By		David Chen **(David Chen) /Reviewer**		2019/5/6 **Date**

Remark1：The difference between model VOG-L04m and model VOG-L29m is show in the below table:

	Model	VOG-L04m	VOG-L29m
Licensed Frequency	LTE BAND	FCC Band: B2/B4/ B5/B7/B12/B17/B26/B38/ B41（2535~2655MHz）/B66	FCC Band: B2/B4/ B5/B7/B12/B17/B26/B38/ B41（2535~2655MHz）
	UMTS BAND	the same	the same
	GSM	the same	the same
	IC	the same	the same
	Antenna	the same	the same
	NFC	the same	the same
Unlicensed Frequency	Bluetooth	the same	the same
	2.4G Wi-Fi	the same	the same
	5.8G Wi-Fi	the same	the same
	IC	the same	the same
	Antenna	the same	the same
Hardware	Ram / Rom	the same	the same
	Camera	the same	the same
	PCB	the same	the same
	USB Port	the same	the same
	SIM	one	two
	Hardware version	the same	the same
RF	RF circuit	The hardware channel of WCDMA B4 and LTE B2/4/7(include CA band) is different, Irrelevant to other frequency bands	The hardware channel of WCDMA B4 and LTE B2/4/7(include CA band) is different, Irrelevant to other frequency bands
Appearance	Dimension	the same	the same
	Color	different	different
Accessory	Battery	the same	the same
	External Charger	the same	the same
	USB label	the same	the same
	Earphone	the same	the same

Remark2：The difference between VOG-L29m and VOG-L09m is that VOG-L09m deletes into single SIM card by software. Other parts of the two model are the same.

Remark3：We re-tested max output power and Field Strength of Spurious Radiation for LTE Band7 & CA_7C on VOG-L29m and the data displayed in this report. the deviations of max output power is within 0.5dB , the deviations of Field Strength of Spurious Radiation is within 3dB, and all test results are under FCC Technical Limits, for other bands, we re-tested the worst case RSE, but the data are better than VOG-L04m, therefore the other test data can refer to No. HR/2019/3001201 of VOG-L04m.

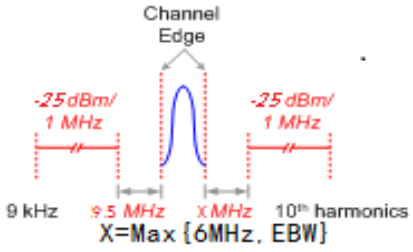
Remark 3: Based on HW knowledge of the device design, we do not test BT/BLE/WIFI2.5G/5G/NFC/WPC of VOG-L29m/VOG-L09m , all test date can refer to No HR/2019/3001202; HR/2019/3001203; HR/2019/3001204;

HR/2019/3001205; HR/2019/3001206; SZEM190401296702; SZEM190401296703 of VOG-L04m(FCC ID : QISVOG-L04M)

Content

2 Test Summary

2.1 LTE BADN 7/UL CA_7C

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)	EIRP ≤ 2W	Section 1 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)		Section 7 of Appendix B	Pass

3 General Information

3.1 Client Information

Applicant:	Huawei Technologies Co., Ltd.
Address of Applicant:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Manufacturer:	Huawei Technologies Co., Ltd.
Address of Manufacturer:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Telephone:	+86 (0) 755 2601 2053
Fax:	+86 (0) 755 2671 0594
E-mail:	ee.shenzhen@sgs.com

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

3.4 General Description of EUT

EUT Description::	Smart Phone
Model No.:	VOG-L29m / VOG-L09m
Trade Mark:	HUAWEI
Hardware Version:	HL5VOGUEM
Software Version:	9.1.0.130(SP2C432E131R1P5)
Sample Type:	☒ Portable Device, ☐Module
Antenna Type:	☐ External, ☒ Integrated
Antenna Gain:	LTE Band 7: 2.11dBi（Down Ant）; -0.89dBi（Up Ant）
Adapter	Model：HW-100400U00 Manufacturer：Huawei Technologies Co.,Ltd. Input Voltage：100-240V ~50/60Hz 1.2A Output Voltage：5V ⎓ 2A OR 9V ⎓ 2A OR 10V ⎓ 4A Model：HW-100400E00 Manufacturer：Huawei Technologies Co.,Ltd. Input Voltage：100-240V ~50/60Hz 1.2A Output Voltage：5V ⎓ 2A OR 9V ⎓ 2A OR 10V ⎓ 4A Model：HW-100400B00 Manufacturer：Huawei Technologies Co.,Ltd. Input Voltage：100-240V ~50/60Hz 1.2A Output Voltage：5V ⎓ 2A OR 9V ⎓ 2A OR 10V ⎓ 4A Model：HW-100400A00 Manufacturer：Huawei Technologies Co.,Ltd. Input Voltage：100-240V ~50/60Hz 1.2A Output Voltage：5V ⎓ 2A OR 9V ⎓ 2A OR 10V ⎓ 4A
Rechargeable Li-ion Battery	Model：HB486486ECW Manufacturer：Huawei Technologies Co.,Ltd. Rated capacity: 4100mAh Nominal Voltage: +3.82V Charging Voltage: +4.4V

3.5 Test Mode

Test Mode	Test Modes Description
LTE/TM1	LTE system, QPSK modulation
LTE/TM2	LTE system, 16QAM modulation
LTE/TM3	LTE system, 64QAM modulation

Remark: The test mode(s) are selected according to relevant radio technology specifications.

3.6 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	101.32 KPa	
Temperature	NT	25 °C
Voltage:	LV	3.6V
	NV	3.82V
	HV	4.35V

Remark: LV= lower extreme test voltage; NV= nominal voltage
HV= upper extreme test voltage; NT= normal temperature

3.7 Technical Specification

Characteristics	Description		
Radio System Type	☒ LTE		
Supported Frequency Range	Band	TX	RX
	LTE Band 7	2500 to 2570 MHz	2620 to 2690 MHz
	LTE CA_7C	2500 to 2570 MHz	2620 to 2690 MHz
Target TX Output Power	LTE Band 7: 24.0dBm （Down Ant）; 20.5dBm（Up Ant） LTE CA_7C: 24.0dBm（Down Ant）; 20.5dBm（Up Ant）		
Supported Channel Bandwidth	LTE Band 7	☒5 MHz; ☒10 MHz; ☒15 MHz, ☒20 MHz	
	LTE CA_7C	☒50+100; ☒75+50; ☒75+75, ☒75+100 ☒100+100	
Characteristics	Description		

3.8 Test Frequencies

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 7	5MHz	TX	Channel 20775	Channel 21100	Channel 21425
			2502.5 MHz	2535 MHz	2567.5 MHz
		RX	Channel 2775	Channel 3100	Channel 5825
			2622.5 MHz	2655 MHz	2687.5 MHz
	10MHz	TX	Channel 20800	Channel 21100	Channel 21400
			2505 MHz	2535 MHz	2565 MHz
		RX	Channel 2800	Channel 3100	Channel 3400
			2625 MHz	2655 MHz	2685 MHz
	15MHz	TX	Channel 20825	Channel 21100	Channel 21375
			2507.5 MHz	2535 MHz	2562.5 MHz
		RX	Channel 2825	Channel 3100	Channel 3375
			2627.5 MHz	2655 MHz	2682.5 MHz
	20MHz	TX	Channel 20850	Channel 21100	Channel 21350
			2510 MHz	2535 MHz	2560 MHz
		RX	Channel 2850	Channel 3100	Channel 3350
			2630 MHz	2655 MHz	2680 MHz

Test frequencies for CA_7C

Range	CC-Combo / NRB_agg [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N_{UL}	f_{UL} [MHz]	N_{DL}	f_{DL} [MHz]	BW [RB]	N_{UL}	f_{UL} [MHz]	N_{DL}	f_{DL} [MHz]
Low	50+100	50	20805	2505.5	2805	2625.5	100	20949	2519.9	2949	2639.9
		100	20850	2510	2850	2630	50	20994	2524.4	2994	2644.4
	75+75	75	20825	2507.5	2825	2627.5	75	20975	2522.5	2975	2642.5
	75+100	75	20828	2507.8	2828	2627.8	100	20999	2524.9	2999	2644.9
		100	20850	2510	2850	2630	75	21021	2527.1	3021	2647.1
	100+100	100	20850	2510	2850	2630	100	21048	2529.8	3048	2649.8
Mid	50+100	50	21006	2525.6	3006	2645.6	100	21150	2540	3150	2660
		100	21051	2530.1	3051	2650.1	50	21195	2544.5	3195	2664.5
	75+75	75	21025	2527.5	3025	2647.5	75	21175	2542.5	3175	2662.5
	75+100	75	21003	2525.3	3003	2645.3	100	21174	2542.4	3174	2662.4
		100	21026	2527.6	3026	2647.6	75	21197	2544.7	3197	2664.7
	100+100	100	21001	2525.1	3001	2645.1	100	21199	2544.9	3199	2664.9
High	50+100	50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680
		100	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5
	75+75	75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5
	75+100	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680
		100	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2
	100+100	100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680
Note 1: Carriers in increasing frequency order.											

4 Description of Tests

4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01

The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

Remark: Reference test setup 1

4.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01 ; C63.26 (2015)

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

EIRP(dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dBField Strength of Spurious Radiation

4.3 Result of Effective (Isotropic) Radiated Power

4.3.1 Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE band 7 (Down Antenna)

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.88	24.99	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.92	25.03	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.95	25.06	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.96	24.07	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.94	24.05	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.10	24.21	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.85	23.96	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.85	24.96	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.84	24.95	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.89	25.00	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.91	24.02	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.90	24.01	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.88	23.99	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.88	23.99	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.96	25.07	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.85	24.96	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.83	24.94	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.06	24.17	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.98	24.09	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	22.00	24.11	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.94	24.05	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#0	20.93	23.04	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.03	23.14	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#24	20.97	23.08	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#0	19.89	22.00	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#6	19.87	21.98	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#13	20.00	22.11	33.00	PASS
Band7	5MHz	64QAM	20775	25RB#0	19.84	21.95	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#0	20.87	22.98	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#12	20.87	22.98	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#24	20.94	23.05	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#0	19.86	21.97	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#6	19.86	21.97	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#13	19.83	21.94	33.00	PASS
Band7	5MHz	64QAM	21100	25RB#0	19.82	21.93	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.00	23.11	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#12	20.87	22.98	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#24	20.88	22.99	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#0	20.13	22.24	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#6	20.04	22.15	33.00	PASS

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Band7	5MHz	64QAM	21425	12RB#13	20.08	22.19	33.00	PASS
Band7	5MHz	64QAM	21425	25RB#0	19.98	22.09	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.99	24.10	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.03	24.14	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.08	24.19	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.89	23.00	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.89	23.00	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.01	23.12	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.82	22.93	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.96	24.07	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.00	24.11	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.07	24.18	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.88	22.99	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.88	22.99	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.82	22.93	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.82	22.93	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.00	24.11	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.00	24.11	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.94	24.05	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	21.09	23.20	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.00	23.11	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.03	23.14	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.94	23.05	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.84	24.95	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.75	24.86	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.93	25.04	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	21.80	23.91	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.87	23.98	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.95	24.06	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.99	24.10	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.73	24.84	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.77	24.88	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.96	25.07	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.83	23.94	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.83	23.94	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.87	23.98	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.84	23.95	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.84	24.95	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.77	24.88	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.67	24.78	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.11	24.22	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.87	23.98	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	21.92	24.03	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.03	24.14	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#0	20.99	23.10	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#24	20.74	22.85	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#49	20.94	23.05	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#0	19.71	21.82	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#12	19.77	21.88	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#25	19.84	21.95	33.00	PASS
Band7	10MHz	64QAM	20800	50RB#0	19.90	22.01	33.00	PASS

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Band7	10MHz	64QAM	21100	1RB#0	20.75	22.86	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#24	20.75	22.86	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.01	23.12	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#0	19.73	21.84	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#12	19.78	21.89	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#25	19.81	21.92	33.00	PASS
Band7	10MHz	64QAM	21100	50RB#0	19.80	21.91	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#0	21.06	23.17	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#24	20.66	22.77	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#49	20.73	22.84	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#0	19.90	22.01	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#12	19.84	21.95	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#25	19.97	22.08	33.00	PASS
Band7	10MHz	64QAM	21400	50RB#0	19.84	21.95	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.09	24.20	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.90	24.01	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.11	24.22	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.70	22.81	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.76	22.87	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.84	22.95	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.90	23.01	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.84	23.95	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.93	24.04	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.16	24.27	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.75	22.86	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.77	22.88	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.02	23.13	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.83	22.94	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.12	24.23	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.99	24.10	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.84	23.95	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.92	23.03	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.81	22.92	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.95	23.06	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.02	23.13	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.86	24.97	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.87	24.98	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.00	25.11	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	21.91	24.02	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	21.86	23.97	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	22.00	24.11	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.82	23.93	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.71	24.82	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.69	24.80	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.92	25.03	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	21.76	23.87	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	21.79	23.90	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	21.93	24.04	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.81	23.92	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.91	25.02	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.95	25.06	33.00	PASS

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Band7	15MHz	QPSK	21375	1RB#74	22.69	24.80	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.04	24.15	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	21.82	23.93	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	21.80	23.91	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.87	23.98	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#0	20.88	22.99	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#38	20.86	22.97	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.00	23.11	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#0	19.84	21.95	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#18	19.79	21.90	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#39	19.95	22.06	33.00	PASS
Band7	15MHz	64QAM	20825	75RB#0	19.72	21.83	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#0	20.75	22.86	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#38	20.75	22.86	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#74	20.93	23.04	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#0	19.68	21.79	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#18	19.71	21.82	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#39	19.87	21.98	33.00	PASS
Band7	15MHz	64QAM	21100	75RB#0	19.72	21.83	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#0	20.98	23.09	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#38	20.84	22.95	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#74	20.74	22.85	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#0	19.94	22.05	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#18	19.78	21.89	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#39	20.02	22.13	33.00	PASS
Band7	15MHz	64QAM	21375	75RB#0	19.92	22.03	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.99	24.10	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.96	24.07	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.12	24.23	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	20.81	22.92	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	20.77	22.88	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	20.91	23.02	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.72	22.83	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.87	23.98	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.91	24.02	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.05	24.16	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	20.69	22.80	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	20.68	22.79	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	20.87	22.98	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.75	22.86	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.11	24.22	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.12	24.23	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.83	23.94	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	20.93	23.04	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	20.76	22.87	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	20.99	23.10	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.90	23.01	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.80	24.91	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.73	24.84	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.93	25.04	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	21.92	24.03	33.00	PASS

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Band7	20MHz	QPSK	20850	50RB#25	21.87	23.98	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.76	23.87	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.99	24.10	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.76	24.87	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.59	24.70	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.06	25.17	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.73	23.84	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.73	23.84	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.89	24.00	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.78	23.89	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.93	25.04	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.73	24.84	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.83	24.94	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.97	24.08	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.77	23.88	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.89	24.00	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.03	24.14	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#0	20.83	22.94	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#49	20.68	22.79	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.24	23.35	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#0	19.83	21.94	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#25	19.82	21.93	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#50	19.72	21.83	33.00	PASS
Band7	20MHz	64QAM	20850	100RB#0	19.90	22.01	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#0	20.99	23.10	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#49	20.69	22.80	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.17	23.28	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#0	19.64	21.75	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#25	19.66	21.77	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#50	19.82	21.93	33.00	PASS
Band7	20MHz	64QAM	21100	100RB#0	19.73	21.84	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.00	23.11	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#49	20.60	22.71	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#99	20.87	22.98	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#0	19.88	21.99	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#25	19.70	21.81	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#50	19.83	21.94	33.00	PASS
Band7	20MHz	64QAM	21350	100RB#0	19.76	21.87	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.90	24.01	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.81	23.92	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.31	24.42	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.83	22.94	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.81	22.92	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.69	22.80	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.88	22.99	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.07	24.18	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.75	23.86	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.24	24.35	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.67	22.78	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.65	22.76	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.82	22.93	33.00	PASS

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Band7	20MHz	16QAM	21100	100RB#0	20.71	22.82	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.10	24.21	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.98	24.09	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.00	24.11	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.93	23.04	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.70	22.81	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.85	22.96	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.71	22.82	33.00	PASS

4.3.2 Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE band 7 (Up Antenna)

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	19.31	18.42	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	19.09	18.20	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	19.23	18.34	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	19.20	18.31	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	19.12	18.23	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	19.25	18.36	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	19.31	18.42	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	18.86	17.97	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	19.02	18.13	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	19.30	18.41	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	19.16	18.27	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	19.14	18.25	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	19.16	18.27	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	19.16	18.27	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	19.04	18.15	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	19.13	18.24	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	19.17	18.28	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	19.14	18.25	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	19.13	18.24	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	19.14	18.25	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	19.08	18.19	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#0	19.35	18.46	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#12	19.27	18.38	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#24	19.28	18.39	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#0	19.00	18.11	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#6	18.92	18.03	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#13	18.95	18.06	33.00	PASS
Band7	5MHz	64QAM	20775	25RB#0	19.15	18.26	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#0	19.17	18.28	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#12	19.08	18.19	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#24	19.34	18.45	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#0	18.78	17.89	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#6	18.88	17.99	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#13	18.99	18.10	33.00	PASS
Band7	5MHz	64QAM	21100	25RB#0	19.06	18.17	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#0	19.42	18.53	33.00	PASS

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Band7	5MHz	64QAM	21425	1RB#12	19.14	18.25	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#24	19.37	18.48	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#0	19.27	18.38	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#6	19.19	18.30	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#13	19.06	18.17	33.00	PASS
Band7	5MHz	64QAM	21425	25RB#0	18.97	18.08	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	19.43	18.54	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	19.05	18.16	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	19.18	18.29	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	19.10	18.21	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	19.18	18.29	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	19.00	18.11	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	19.23	18.34	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	18.93	18.04	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	18.83	17.94	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	19.26	18.37	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	19.08	18.19	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	19.03	18.14	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	19.06	18.17	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	19.04	18.15	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	19.37	18.48	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	19.07	18.18	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	19.43	18.54	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	19.14	18.25	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	18.97	18.08	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	18.88	17.99	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	18.93	18.04	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	19.16	18.27	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	18.99	18.10	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	19.20	18.31	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	19.17	18.28	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	19.08	18.19	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	19.18	18.29	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	19.24	18.35	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	19.29	18.40	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	18.81	17.92	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	19.10	18.21	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	19.05	18.16	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	19.08	18.19	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	19.16	18.27	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	19.27	18.38	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	19.13	18.24	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	19.05	18.16	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	19.31	18.42	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	19.32	18.43	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	19.18	18.29	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	19.25	18.36	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	19.23	18.34	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#0	19.15	18.26	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#24	19.26	18.37	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#49	19.12	18.23	33.00	PASS

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Band7	10MHz	64QAM	20800	25RB#0	19.18	18.29	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#12	19.13	18.24	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#25	19.09	18.20	33.00	PASS
Band7	10MHz	64QAM	20800	50RB#0	19.01	18.12	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#0	19.34	18.45	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#24	18.95	18.06	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#49	19.16	18.27	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#0	18.85	17.96	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#12	18.87	17.98	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#25	19.09	18.20	33.00	PASS
Band7	10MHz	64QAM	21100	50RB#0	18.99	18.10	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#0	19.14	18.25	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#24	18.88	17.99	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#49	19.08	18.19	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#0	19.15	18.26	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#12	19.10	18.21	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#25	19.12	18.23	33.00	PASS
Band7	10MHz	64QAM	21400	50RB#0	19.18	18.29	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	19.00	18.11	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	19.09	18.20	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	19.02	18.13	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	19.09	18.20	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	19.00	18.11	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	19.16	18.27	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	19.01	18.12	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	19.31	18.42	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	18.76	17.87	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	19.45	18.56	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	19.08	18.19	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	18.87	17.98	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	19.01	18.12	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	19.02	18.13	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	19.04	18.15	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	18.95	18.06	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	19.06	18.17	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	18.98	18.09	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	18.95	18.06	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	19.05	18.16	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	19.11	18.22	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	19.16	18.27	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	19.27	18.38	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	19.20	18.31	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	19.26	18.37	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	19.09	18.20	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	19.15	18.26	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	19.07	18.18	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	19.07	18.18	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	19.22	18.33	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	19.01	18.12	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	19.17	18.28	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	19.25	18.36	33.00	PASS

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Band7	15MHz	QPSK	21100	36RB#39	19.00	18.11	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	18.84	17.95	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	19.11	18.22	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	18.92	18.03	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	19.00	18.11	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	19.13	18.24	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	19.25	18.36	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	19.33	18.44	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	19.32	18.43	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#0	19.26	18.37	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#38	19.19	18.30	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#74	19.33	18.44	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#0	19.13	18.24	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#18	19.08	18.19	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#39	18.88	17.99	33.00	PASS
Band7	15MHz	64QAM	20825	75RB#0	18.94	18.05	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#0	19.34	18.45	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#38	19.24	18.35	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#74	19.18	18.29	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#0	18.93	18.04	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#18	18.95	18.06	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#39	18.91	18.02	33.00	PASS
Band7	15MHz	64QAM	21100	75RB#0	18.94	18.05	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#0	19.21	18.32	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#38	19.35	18.46	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#74	19.14	18.25	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#0	19.09	18.20	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#18	19.09	18.20	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#39	18.94	18.05	33.00	PASS
Band7	15MHz	64QAM	21375	75RB#0	19.03	18.14	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	19.36	18.47	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	19.05	18.16	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	18.93	18.04	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	19.15	18.26	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	19.04	18.15	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	18.91	18.02	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	19.08	18.19	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	19.03	18.14	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	19.06	18.17	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	19.10	18.21	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	19.10	18.21	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	18.99	18.10	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	18.91	18.02	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	18.80	17.91	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	19.44	18.55	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	19.12	18.23	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	19.11	18.22	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	18.81	17.92	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	19.14	18.25	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	19.12	18.23	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	19.03	18.14	33.00	PASS

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Band7	20MHz	QPSK	20850	1RB#0	19.30	18.41	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	18.81	17.92	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	19.17	18.28	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	19.35	18.46	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	19.21	18.32	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	19.04	18.15	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	19.13	18.24	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	19.25	18.36	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	18.90	18.01	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	19.26	18.37	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	19.27	18.38	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	19.10	18.21	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	19.12	18.23	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.86	17.97	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	19.32	18.43	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	18.90	18.01	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	19.27	18.38	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	19.37	18.48	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	19.05	18.16	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	19.17	18.28	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	19.36	18.47	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#0	19.52	18.63	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#49	19.16	18.27	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#99	19.37	18.48	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#0	19.21	18.32	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#25	18.92	18.03	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#50	18.89	18.00	33.00	PASS
Band7	20MHz	64QAM	20850	100RB#0	19.27	18.38	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#0	19.44	18.55	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#49	18.92	18.03	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#99	19.07	18.18	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#0	19.00	18.11	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#25	18.90	18.01	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#50	19.00	18.11	33.00	PASS
Band7	20MHz	64QAM	21100	100RB#0	18.93	18.04	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#0	19.47	18.58	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#49	18.73	17.84	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#99	19.34	18.45	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#0	19.16	18.27	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#25	19.04	18.15	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#50	18.90	18.01	33.00	PASS
Band7	20MHz	64QAM	21350	100RB#0	19.19	18.30	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	19.19	18.30	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	19.11	18.22	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	19.26	18.37	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	19.13	18.24	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	19.06	18.17	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	18.88	17.99	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	19.20	18.31	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	19.29	18.40	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	18.90	18.01	33.00	PASS

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Band7	20MHz	16QAM	21100	1RB#99	19.27	18.38	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	19.07	18.18	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	18.91	18.02	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	18.87	17.98	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	18.98	18.09	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	19.31	18.42	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	18.92	18.03	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	19.33	18.44	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	18.96	18.07	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	18.79	17.90	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	19.06	18.17	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	19.30	18.41	33.00	PASS

4.3.3 Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE Band CA_7C （Down Antenna）

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_7C	75RB+75RB	20825+20975	1RB@0	0RB@0	QPSK	22.68	24.79	33.00	Pass
CA_7C	75RB+75RB	20825+20975	16RB@0	0RB@0	QPSK	22.53	24.64	33.00	Pass
CA_7C	75RB+75RB	21025+21175	1RB@0	0RB@0	QPSK	22.89	25.00	33.00	Pass
CA_7C	75RB+75RB	21025+21175	16RB@0	0RB@0	QPSK	22.67	24.78	33.00	Pass
CA_7C	75RB+75RB	21225+21375	1RB@0	0RB@0	QPSK	22.59	24.70	33.00	Pass
CA_7C	75RB+75RB	21225+21375	16RB@0	0RB@0	QPSK	22.73	24.84	33.00	Pass
CA_7C	75RB+75RB	20975+20825	1RB@0	0RB@0	QPSK	22.52	24.63	33.00	Pass
CA_7C	75RB+75RB	20975+20825	16RB@0	0RB@0	QPSK	22.75	24.86	33.00	Pass
CA_7C	75RB+75RB	21175+21025	1RB@0	0RB@0	QPSK	22.61	24.72	33.00	Pass
CA_7C	75RB+75RB	21175+21025	16RB@0	0RB@0	QPSK	22.75	24.86	33.00	Pass
CA_7C	75RB+75RB	21375+21225	1RB@0	0RB@0	QPSK	22.55	24.66	33.00	Pass
CA_7C	75RB+75RB	21375+21225	16RB@0	0RB@0	QPSK	22.72	24.83	33.00	Pass
CA_7C	100RB+100RB	20850+21048	1RB@0	0RB@0	QPSK	21.75	23.86	33.00	Pass
CA_7C	100RB+100RB	20850+21048	18RB@0	0RB@0	QPSK	21.78	23.89	33.00	Pass
CA_7C	100RB+100RB	21001+21199	1RB@0	0RB@0	QPSK	21.68	23.79	33.00	Pass
CA_7C	100RB+100RB	21001+21199	18RB@0	0RB@0	QPSK	21.68	23.79	33.00	Pass
CA_7C	100RB+100RB	21152+21350	1RB@0	0RB@0	QPSK	21.98	24.09	33.00	Pass
CA_7C	100RB+100RB	21152+21350	18RB@0	0RB@0	QPSK	21.65	23.76	33.00	Pass
CA_7C	100RB+100RB	21048+20850	1RB@0	0RB@0	QPSK	21.76	23.87	33.00	Pass
CA_7C	100RB+100RB	21048+20850	18RB@0	0RB@0	QPSK	21.89	24.00	33.00	Pass
CA_7C	100RB+100RB	21199+21001	1RB@0	0RB@0	QPSK	21.79	23.90	33.00	Pass
CA_7C	100RB+100RB	21199+21001	18RB@0	0RB@0	QPSK	21.62	23.73	33.00	Pass
CA_7C	100RB+100RB	21350+21152	1RB@0	0RB@0	QPSK	21.82	23.93	33.00	Pass
CA_7C	100RB+100RB	21350+21152	18RB@0	0RB@0	QPSK	21.37	23.48	33.00	Pass
CA_7C	75RB+75RB	20825+20975	1RB@0	0RB@0	16QAM	20.99	23.10	33.00	Pass
CA_7C	75RB+75RB	20825+20975	16RB@0	0RB@0	16QAM	20.70	22.81	33.00	Pass
CA_7C	75RB+75RB	21025+21175	1RB@0	0RB@0	16QAM	20.83	22.94	33.00	Pass

CA_7C	75RB+75RB	21025+21175	16RB@0	0RB@0	16QAM	20.52	22.63	33.00	Pass
CA_7C	75RB+75RB	21225+21375	1RB@0	0RB@0	16QAM	20.61	22.72	33.00	Pass
CA_7C	75RB+75RB	21225+21375	16RB@0	0RB@0	16QAM	20.52	22.63	33.00	Pass
CA_7C	75RB+75RB	20975+20825	1RB@0	0RB@0	16QAM	20.86	22.97	33.00	Pass
CA_7C	75RB+75RB	20975+20825	16RB@0	0RB@0	16QAM	20.70	22.81	33.00	Pass
CA_7C	75RB+75RB	21175+21025	1RB@0	0RB@0	16QAM	20.67	22.78	33.00	Pass
CA_7C	75RB+75RB	21175+21025	16RB@0	0RB@0	16QAM	20.47	22.58	33.00	Pass
CA_7C	75RB+75RB	21375+21225	1RB@0	0RB@0	16QAM	20.81	22.92	33.00	Pass
CA_7C	75RB+75RB	21375+21225	16RB@0	0RB@0	16QAM	20.60	22.71	33.00	Pass
CA_7C	100RB+100RB	20850+21048	1RB@0	0RB@0	16QAM	22.79	24.90	33.00	Pass
CA_7C	100RB+100RB	20850+21048	18RB@0	0RB@0	16QAM	23.01	25.12	33.00	Pass
CA_7C	100RB+100RB	21001+21199	1RB@0	0RB@0	16QAM	22.68	24.79	33.00	Pass
CA_7C	100RB+100RB	21001+21199	18RB@0	0RB@0	16QAM	22.71	24.82	33.00	Pass
CA_7C	100RB+100RB	21152+21350	1RB@0	0RB@0	16QAM	22.80	24.91	33.00	Pass
CA_7C	100RB+100RB	21152+21350	18RB@0	0RB@0	16QAM	22.66	24.77	33.00	Pass
CA_7C	100RB+100RB	21048+20850	1RB@0	0RB@0	16QAM	22.75	24.86	33.00	Pass
CA_7C	100RB+100RB	21048+20850	18RB@0	0RB@0	16QAM	22.86	24.97	33.00	Pass
CA_7C	100RB+100RB	21199+21001	1RB@0	0RB@0	16QAM	22.78	24.89	33.00	Pass
CA_7C	100RB+100RB	21199+21001	18RB@0	0RB@0	16QAM	22.62	24.73	33.00	Pass
CA_7C	100RB+100RB	21350+21152	1RB@0	0RB@0	16QAM	22.54	24.65	33.00	Pass
CA_7C	100RB+100RB	21350+21152	18RB@0	0RB@0	16QAM	22.76	24.87	33.00	Pass
CA_7C	75RB+75RB	20825+20975	1RB@0	0RB@0	64QAM	22.30	24.41	33.00	Pass
CA_7C	75RB+75RB	20825+20975	16RB@0	0RB@0	64QAM	22.03	24.14	33.00	Pass
CA_7C	75RB+75RB	21025+21175	1RB@0	0RB@0	64QAM	22.32	24.43	33.00	Pass
CA_7C	75RB+75RB	21025+21175	16RB@0	0RB@0	64QAM	21.72	23.83	33.00	Pass
CA_7C	75RB+75RB	21225+21375	1RB@0	0RB@0	64QAM	22.04	24.15	33.00	Pass
CA_7C	75RB+75RB	21225+21375	16RB@0	0RB@0	64QAM	21.74	23.85	33.00	Pass
CA_7C	75RB+75RB	20975+20825	1RB@0	0RB@0	64QAM	22.00	24.11	33.00	Pass
CA_7C	75RB+75RB	20975+20825	16RB@0	0RB@0	64QAM	21.88	23.99	33.00	Pass
CA_7C	75RB+75RB	21175+21025	1RB@0	0RB@0	64QAM	22.17	24.28	33.00	Pass
CA_7C	75RB+75RB	21175+21025	16RB@0	0RB@0	64QAM	21.89	24.00	33.00	Pass
CA_7C	75RB+75RB	21375+21225	1RB@0	0RB@0	64QAM	22.16	24.27	33.00	Pass
CA_7C	75RB+75RB	21375+21225	16RB@0	0RB@0	64QAM	21.88	23.99	33.00	Pass
CA_7C	100RB+100RB	20850+21048	1RB@0	0RB@0	64QAM	20.82	22.93	33.00	Pass
CA_7C	100RB+100RB	20850+21048	18RB@0	0RB@0	64QAM	20.91	23.02	33.00	Pass
CA_7C	100RB+100RB	21001+21199	1RB@0	0RB@0	64QAM	20.99	23.10	33.00	Pass
CA_7C	100RB+100RB	21001+21199	18RB@0	0RB@0	64QAM	20.64	22.75	33.00	Pass
CA_7C	100RB+100RB	21152+21350	1RB@0	0RB@0	64QAM	20.90	23.01	33.00	Pass
CA_7C	100RB+100RB	21152+21350	18RB@0	0RB@0	64QAM	20.77	22.88	33.00	Pass
CA_7C	100RB+100RB	21048+20850	1RB@0	0RB@0	64QAM	20.95	23.06	33.00	Pass
CA_7C	100RB+100RB	21048+20850	18RB@0	0RB@0	64QAM	20.89	23.00	33.00	Pass
CA_7C	100RB+100RB	21199+21001	1RB@0	0RB@0	64QAM	20.98	23.09	33.00	Pass
CA_7C	100RB+100RB	21199+21001	18RB@0	0RB@0	64QAM	20.58	22.69	33.00	Pass
CA_7C	100RB+100RB	21350+21152	1RB@0	0RB@0	64QAM	20.98	23.09	33.00	Pass

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CA_7C	100RB+100RB	21350+21152	18RB@0	0RB@0	64QAM	20.84	22.95	33.00	Pass

4.3.4 Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE Band CA_7C （Up Antenna）

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_7C	75RB+75RB	20825+20975	1RB@0	0RB@0	QPSK	19.32	18.43	33.00	Pass
CA_7C	75RB+75RB	20825+20975	16RB@0	0RB@0	QPSK	19.38	18.49	33.00	Pass
CA_7C	75RB+75RB	21025+21175	1RB@0	0RB@0	QPSK	19.37	18.48	33.00	Pass
CA_7C	75RB+75RB	21025+21175	16RB@0	0RB@0	QPSK	19.14	18.25	33.00	Pass
CA_7C	75RB+75RB	21225+21375	1RB@0	0RB@0	QPSK	19.01	18.12	33.00	Pass
CA_7C	75RB+75RB	21225+21375	16RB@0	0RB@0	QPSK	19.15	18.26	33.00	Pass
CA_7C	75RB+75RB	20975+20825	1RB@0	0RB@0	QPSK	19.27	18.38	33.00	Pass
CA_7C	75RB+75RB	20975+20825	16RB@0	0RB@0	QPSK	19.28	18.39	33.00	Pass
CA_7C	75RB+75RB	21175+21025	1RB@0	0RB@0	QPSK	19.25	18.36	33.00	Pass
CA_7C	75RB+75RB	21175+21025	16RB@0	0RB@0	QPSK	19.20	18.31	33.00	Pass
CA_7C	75RB+75RB	21375+21225	1RB@0	0RB@0	QPSK	19.39	18.50	33.00	Pass
CA_7C	75RB+75RB	21375+21225	16RB@0	0RB@0	QPSK	19.08	18.19	33.00	Pass
CA_7C	100RB+100RB	20850+21048	1RB@0	0RB@0	QPSK	19.08	18.19	33.00	Pass
CA_7C	100RB+100RB	20850+21048	18RB@0	0RB@0	QPSK	19.48	18.59	33.00	Pass
CA_7C	100RB+100RB	21001+21199	1RB@0	0RB@0	QPSK	19.27	18.38	33.00	Pass
CA_7C	100RB+100RB	21001+21199	18RB@0	0RB@0	QPSK	19.58	18.69	33.00	Pass
CA_7C	100RB+100RB	21152+21350	1RB@0	0RB@0	QPSK	19.37	18.48	33.00	Pass
CA_7C	100RB+100RB	21152+21350	18RB@0	0RB@0	QPSK	19.33	18.44	33.00	Pass
CA_7C	100RB+100RB	21048+20850	1RB@0	0RB@0	QPSK	19.52	18.63	33.00	Pass
CA_7C	100RB+100RB	21048+20850	18RB@0	0RB@0	QPSK	19.22	18.33	33.00	Pass
CA_7C	100RB+100RB	21199+21001	1RB@0	0RB@0	QPSK	19.42	18.53	33.00	Pass
CA_7C	100RB+100RB	21199+21001	18RB@0	0RB@0	QPSK	19.32	18.43	33.00	Pass
CA_7C	100RB+100RB	21350+21152	1RB@0	0RB@0	QPSK	19.46	18.57	33.00	Pass
CA_7C	100RB+100RB	21350+21152	18RB@0	0RB@0	QPSK	19.10	18.21	33.00	Pass
CA_7C	75RB+75RB	20825+20975	1RB@0	0RB@0	16QAM	19.34	18.45	33.00	Pass
CA_7C	75RB+75RB	20825+20975	16RB@0	0RB@0	16QAM	19.25	18.36	33.00	Pass
CA_7C	75RB+75RB	21025+21175	1RB@0	0RB@0	16QAM	19.60	18.71	33.00	Pass
CA_7C	75RB+75RB	21025+21175	16RB@0	0RB@0	16QAM	19.33	18.44	33.00	Pass
CA_7C	75RB+75RB	21225+21375	1RB@0	0RB@0	16QAM	19.46	18.57	33.00	Pass
CA_7C	75RB+75RB	21225+21375	16RB@0	0RB@0	16QAM	19.06	18.17	33.00	Pass
CA_7C	75RB+75RB	20975+20825	1RB@0	0RB@0	16QAM	19.37	18.48	33.00	Pass
CA_7C	75RB+75RB	20975+20825	16RB@0	0RB@0	16QAM	19.19	18.30	33.00	Pass
CA_7C	75RB+75RB	21175+21025	1RB@0	0RB@0	16QAM	19.47	18.58	33.00	Pass
CA_7C	75RB+75RB	21175+21025	16RB@0	0RB@0	16QAM	19.30	18.41	33.00	Pass
CA_7C	75RB+75RB	21375+21225	1RB@0	0RB@0	16QAM	19.44	18.55	33.00	Pass
CA_7C	75RB+75RB	21375+21225	16RB@0	0RB@0	16QAM	18.91	18.02	33.00	Pass
CA_7C	100RB+100RB	20850+21048	1RB@0	0RB@0	16QAM	19.32	18.43	33.00	Pass

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CA_7C	100RB+100RB	20850+21048	18RB@0	0RB@0	16QAM	19.34	18.45	33.00	Pass
CA_7C	100RB+100RB	21001+21199	1RB@0	0RB@0	16QAM	19.70	18.81	33.00	Pass
CA_7C	100RB+100RB	21001+21199	18RB@0	0RB@0	16QAM	19.53	18.64	33.00	Pass
CA_7C	100RB+100RB	21152+21350	1RB@0	0RB@0	16QAM	19.52	18.63	33.00	Pass
CA_7C	100RB+100RB	21152+21350	18RB@0	0RB@0	16QAM	19.45	18.56	33.00	Pass
CA_7C	100RB+100RB	21048+20850	1RB@0	0RB@0	16QAM	19.58	18.69	33.00	Pass
CA_7C	100RB+100RB	21048+20850	18RB@0	0RB@0	16QAM	19.13	18.24	33.00	Pass
CA_7C	100RB+100RB	21199+21001	1RB@0	0RB@0	16QAM	19.51	18.62	33.00	Pass
CA_7C	100RB+100RB	21199+21001	18RB@0	0RB@0	16QAM	19.35	18.46	33.00	Pass
CA_7C	100RB+100RB	21350+21152	1RB@0	0RB@0	16QAM	19.51	18.62	33.00	Pass
CA_7C	100RB+100RB	21350+21152	18RB@0	0RB@0	16QAM	19.33	18.44	33.00	Pass
CA_7C	75RB+75RB	20825+20975	1RB@0	0RB@0	64QAM	19.64	18.75	33.00	Pass
CA_7C	75RB+75RB	20825+20975	16RB@0	0RB@0	64QAM	19.48	18.59	33.00	Pass
CA_7C	75RB+75RB	21025+21175	1RB@0	0RB@0	64QAM	19.60	18.71	33.00	Pass
CA_7C	75RB+75RB	21025+21175	16RB@0	0RB@0	64QAM	19.37	18.48	33.00	Pass
CA_7C	75RB+75RB	21225+21375	1RB@0	0RB@0	64QAM	19.49	18.60	33.00	Pass
CA_7C	75RB+75RB	21225+21375	16RB@0	0RB@0	64QAM	19.18	18.29	33.00	Pass
CA_7C	75RB+75RB	20975+20825	1RB@0	0RB@0	64QAM	19.36	18.47	33.00	Pass
CA_7C	75RB+75RB	20975+20825	16RB@0	0RB@0	64QAM	19.13	18.24	33.00	Pass
CA_7C	75RB+75RB	21175+21025	1RB@0	0RB@0	64QAM	19.55	18.66	33.00	Pass
CA_7C	75RB+75RB	21175+21025	16RB@0	0RB@0	64QAM	19.16	18.27	33.00	Pass
CA_7C	75RB+75RB	21375+21225	1RB@0	0RB@0	64QAM	19.26	18.37	33.00	Pass
CA_7C	75RB+75RB	21375+21225	16RB@0	0RB@0	64QAM	18.96	18.07	33.00	Pass
CA_7C	100RB+100RB	20850+21048	1RB@0	0RB@0	64QAM	19.31	18.42	33.00	Pass
CA_7C	100RB+100RB	20850+21048	18RB@0	0RB@0	64QAM	19.29	18.40	33.00	Pass
CA_7C	100RB+100RB	21001+21199	1RB@0	0RB@0	64QAM	19.84	18.95	33.00	Pass
CA_7C	100RB+100RB	21001+21199	18RB@0	0RB@0	64QAM	19.45	18.56	33.00	Pass
CA_7C	100RB+100RB	21152+21350	1RB@0	0RB@0	64QAM	19.43	18.54	33.00	Pass
CA_7C	100RB+100RB	21152+21350	18RB@0	0RB@0	64QAM	19.43	18.54	33.00	Pass
CA_7C	100RB+100RB	21048+20850	1RB@0	0RB@0	64QAM	19.71	18.82	33.00	Pass
CA_7C	100RB+100RB	21048+20850	18RB@0	0RB@0	64QAM	19.29	18.40	33.00	Pass
CA_7C	100RB+100RB	21199+21001	1RB@0	0RB@0	64QAM	19.49	18.60	33.00	Pass
CA_7C	100RB+100RB	21199+21001	18RB@0	0RB@0	64QAM	19.12	18.23	33.00	Pass
CA_7C	100RB+100RB	21350+21152	1RB@0	0RB@0	64QAM	19.55	18.66	33.00	Pass
CA_7C	100RB+100RB	21350+21152	18RB@0	0RB@0	64QAM	19.10	18.21	33.00	Pass

4.4 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01

Below 1GHz test procedure as below:

1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.

2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.

3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.

4). The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.

5). A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.

6). The output power into the substitution antenna was then measured.

7). Steps 5) and 6) were repeated with both antennas polarized.

8) Calculate power in dBm by the following formula:

ERP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBd)

Where:

Pd is the dipole equivalent power, Pg is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to Pg [dBm] – cable loss [dB]. The calculated Pd levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of 43 + 10log10(Power [Watts]).

Above 1GHz test procedure as below:

1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber

2) Calculate power in dBm by the following formula:

EIRP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBi)

EIRP=ERP+2.15dB

Where:

Pg is the generator output power into the substitution antenna.

3. Test the EUT in the lowest channel, the middle channel the Highest channel

4. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.

5. Repeat above procedures until all frequencies measured was complete

Remark: Reference test setup 3

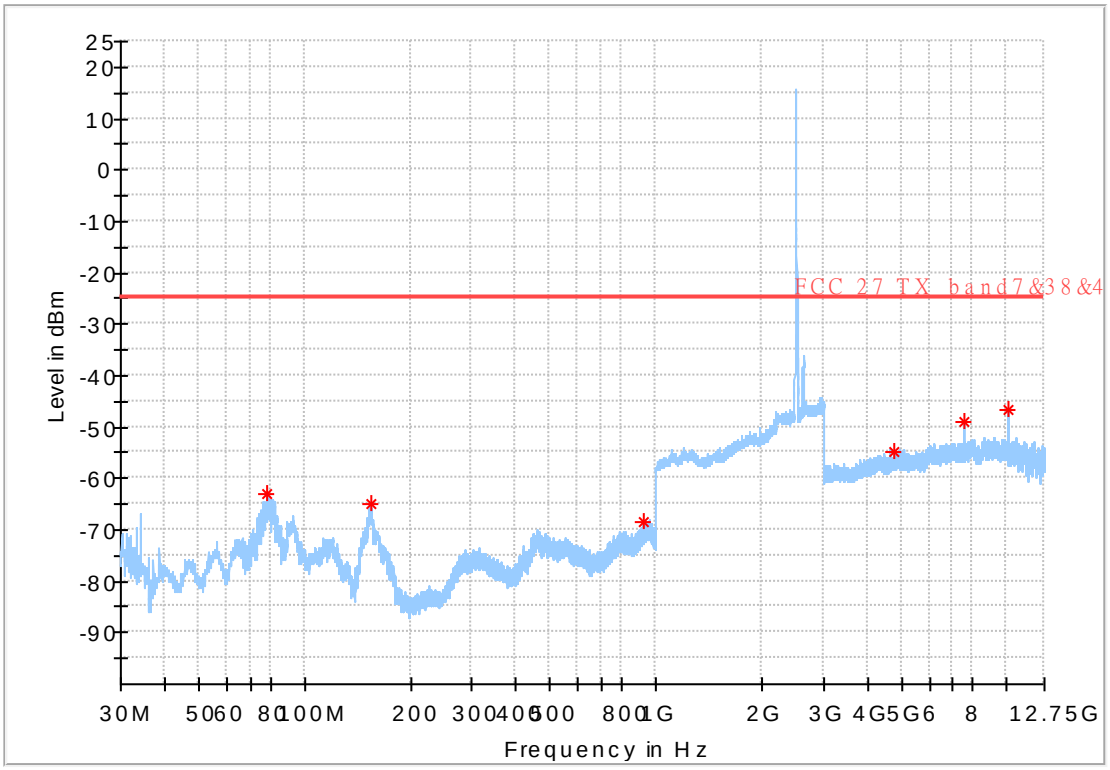
4.4.1 Result of Field Strength of Spurious Radiation

4.4.1.1 Test BAND = LTE Band 7

4.4.1.1.1 Test Mode =LTE/TM1 (Down Ant)

4.4.1.1.1.1Test Channel = LCH_ Vertical

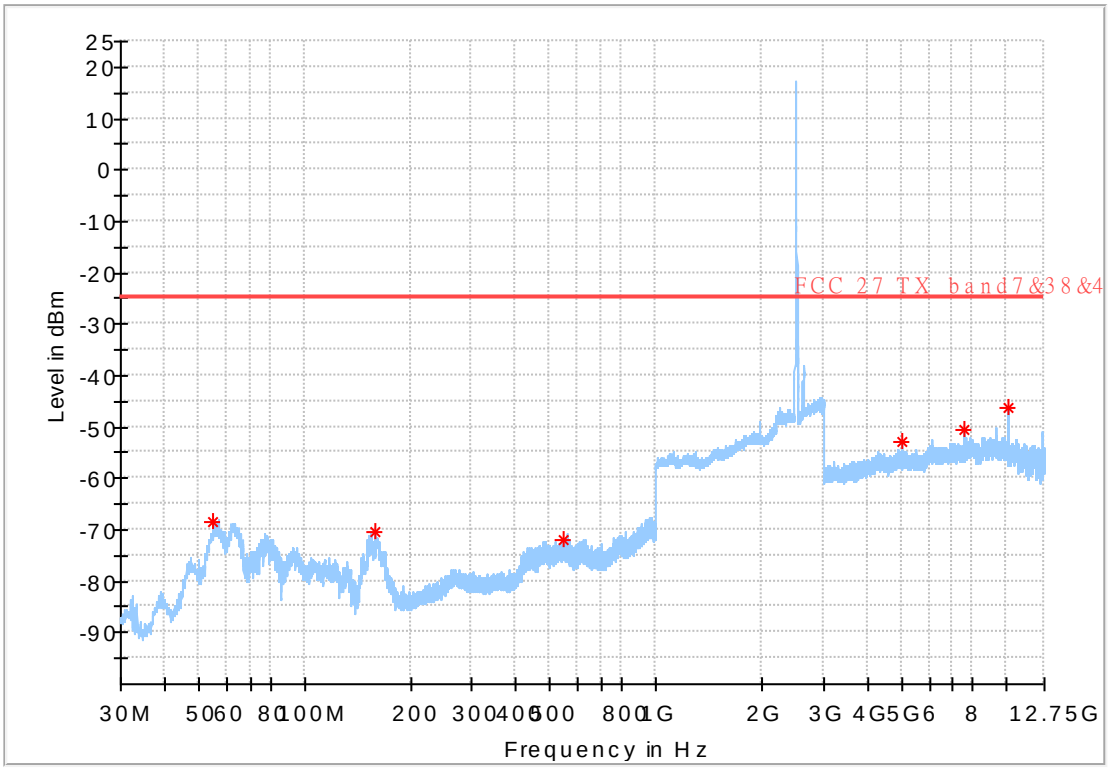
Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
78.700000	-63.13	-25.00	38.13	---	---	200.0	V	288.0	-109.4
153.850000	-65.13	-25.00	40.13	---	---	200.0	V	104.0	-108.9
924.558333	-68.65	-25.00	43.65	---	---	200.0	V	0.0	-93.1
4748.175000	-54.98	-25.00	29.98	---	---	200.0	V	0.0	-102.4
7503.200000	-48.93	-25.00	23.93	---	---	200.0	V	0.0	-99.0
10004.400000	-46.50	-25.00	21.50	---	---	200.0	V	1.0	-97.2

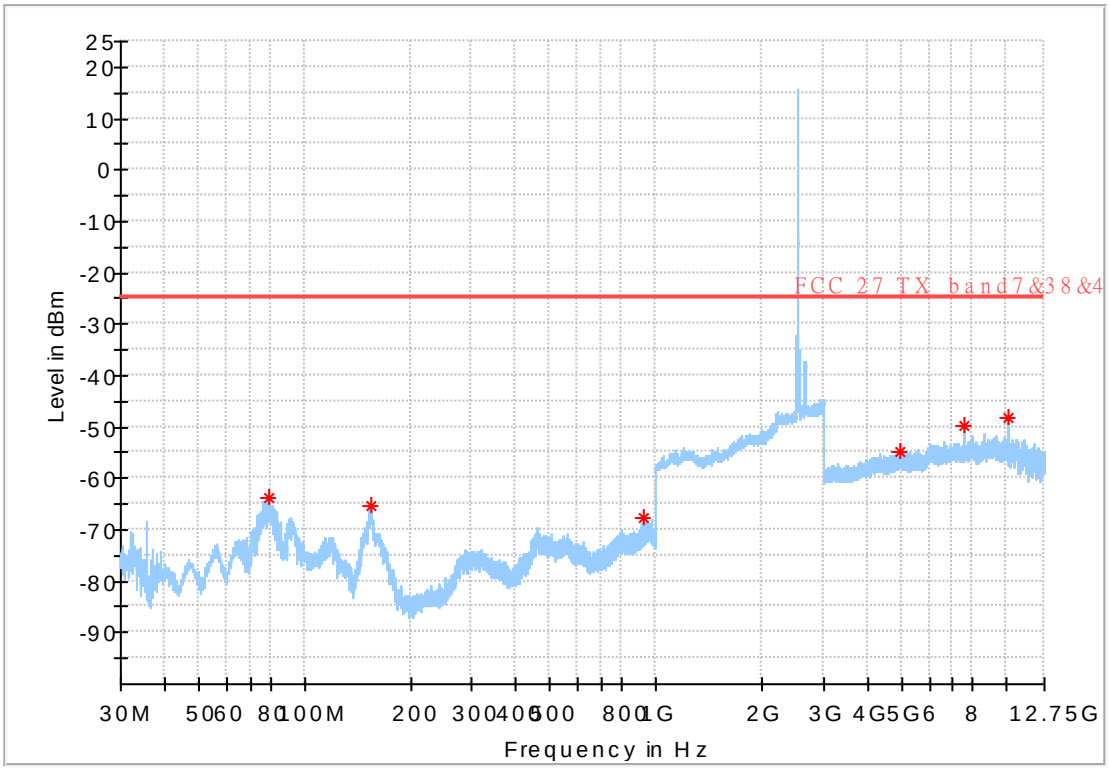
4.4.1.1.1.2Test Channel = LCH_ Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
55.200000	-68.44	-25.00	43.44	---	---	200.0	H	124.0	-97.6
159.700000	-70.58	-25.00	45.58	---	---	200.0	H	0.0	-108.5
548.633333	-72.15	-25.00	47.15	---	---	200.0	H	189.0	-101.4
5002.000000	-52.80	-25.00	27.80	---	---	200.0	H	1.0	-101.4
7503.200000	-50.73	-25.00	25.73	---	---	200.0	H	211.0	-99.1
10004.075000	-46.14	-25.00	21.14	---	---	200.0	H	1.0	-97.3

4.4.1.1.1.3Test Channel = MCH_ Vertical

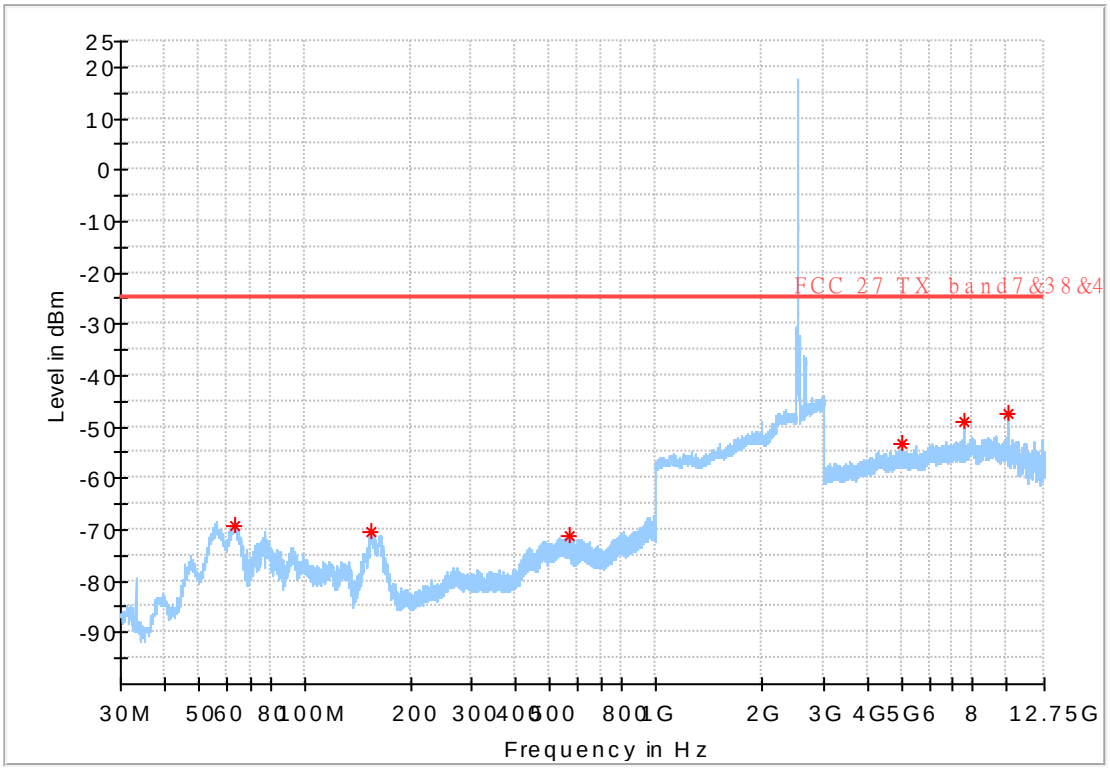


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
78.750000	-63.87	-25.00	38.87	---	---	200.0	V	263.0	-109.4
154.100000	-65.26	-25.00	40.26	---	---	200.0	V	148.0	-108.9
923.962500	-67.52	-25.00	42.52	---	---	200.0	V	0.0	-93.1
4984.450000	-54.79	-25.00	29.79	---	---	200.0	V	212.0	-101.5
7577.950000	-49.75	-25.00	24.75	---	---	200.0	V	0.0	-98.8
10104.175000	-48.14	-25.00	23.14	---	---	200.0	V	1.0	-97.2

4.4.1.1.1.4Test Channel = MCH_ Horizontal

Full Spectrum

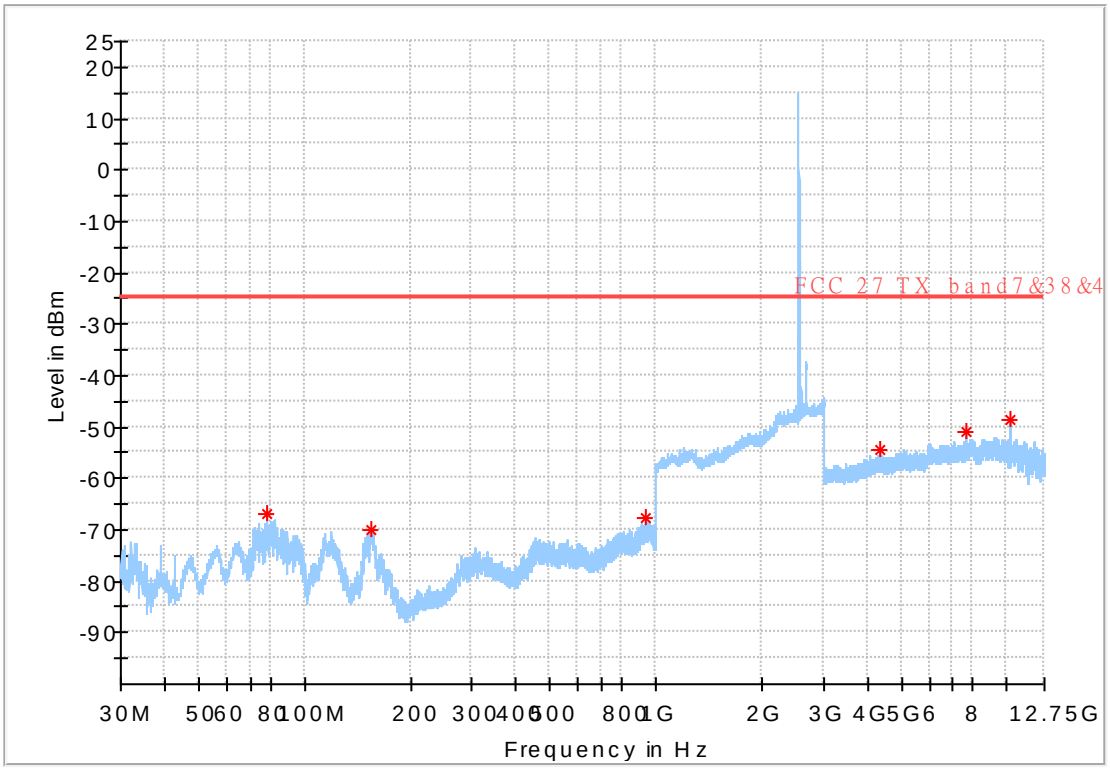


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.250000	-69.22	-25.00	44.22	---	---	200.0	H	79.0	-95.9
154.300000	-70.53	-25.00	45.53	---	---	200.0	H	2.0	-109.5
565.362500	-71.15	-25.00	46.15	---	---	200.0	H	190.0	-100.6
5052.050000	-53.36	-25.00	28.36	---	---	200.0	H	1.0	-101.5
7578.275000	-49.04	-25.00	24.04	---	---	200.0	H	212.0	-98.9
10104.500000	-47.28	-25.00	22.28	---	---	200.0	H	1.0	-97.2

4.4.1.1.1.5Test Channel = HCH_ Vertical

Full Spectrum

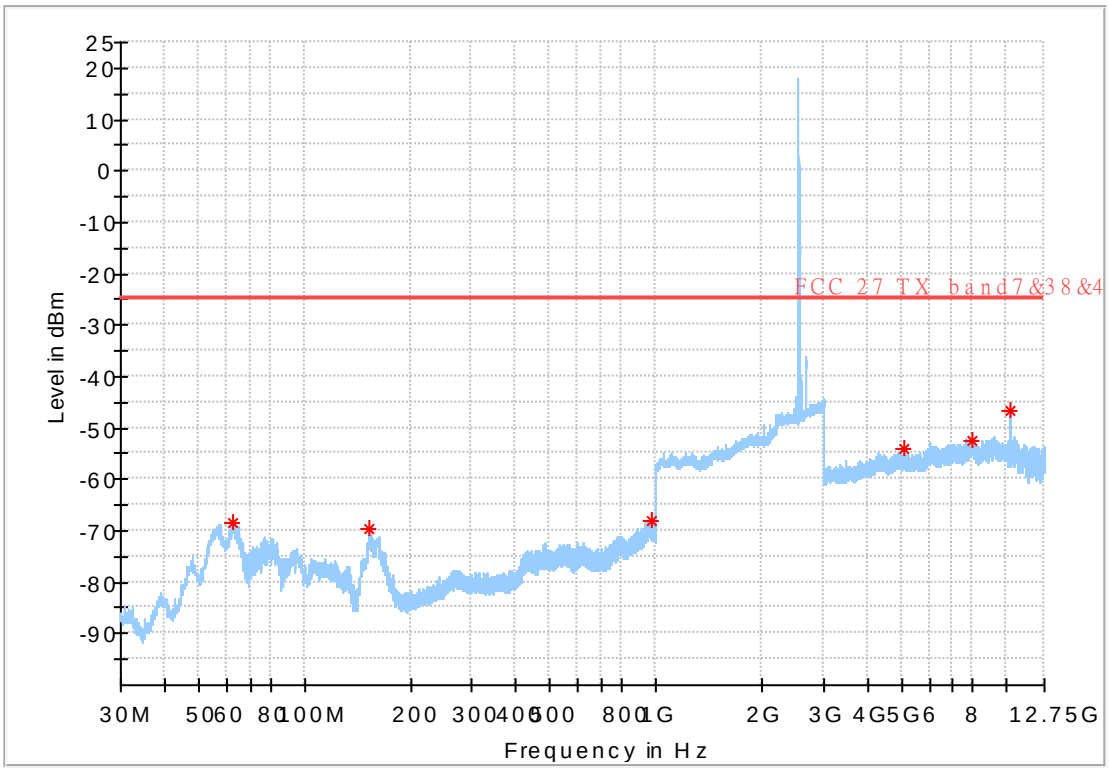


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
78.450000	-67.08	-25.00	42.08	---	---	200.0	V	287.0	-109.2
154.050000	-70.06	-25.00	45.06	---	---	200.0	V	78.0	-108.9
932.808333	-67.79	-25.00	42.79	---	---	200.0	V	113.0	-92.8
4336.725000	-54.38	-25.00	29.38	---	---	200.0	V	212.0	-102.8
7653.025000	-50.96	-25.00	25.96	---	---	200.0	V	0.0	-98.4
10204.925000	-48.76	-25.00	23.76	---	---	200.0	V	2.0	-97.0

4.4.1.1.1.6Test Channel = HCH_ Horizontal

Full Spectrum



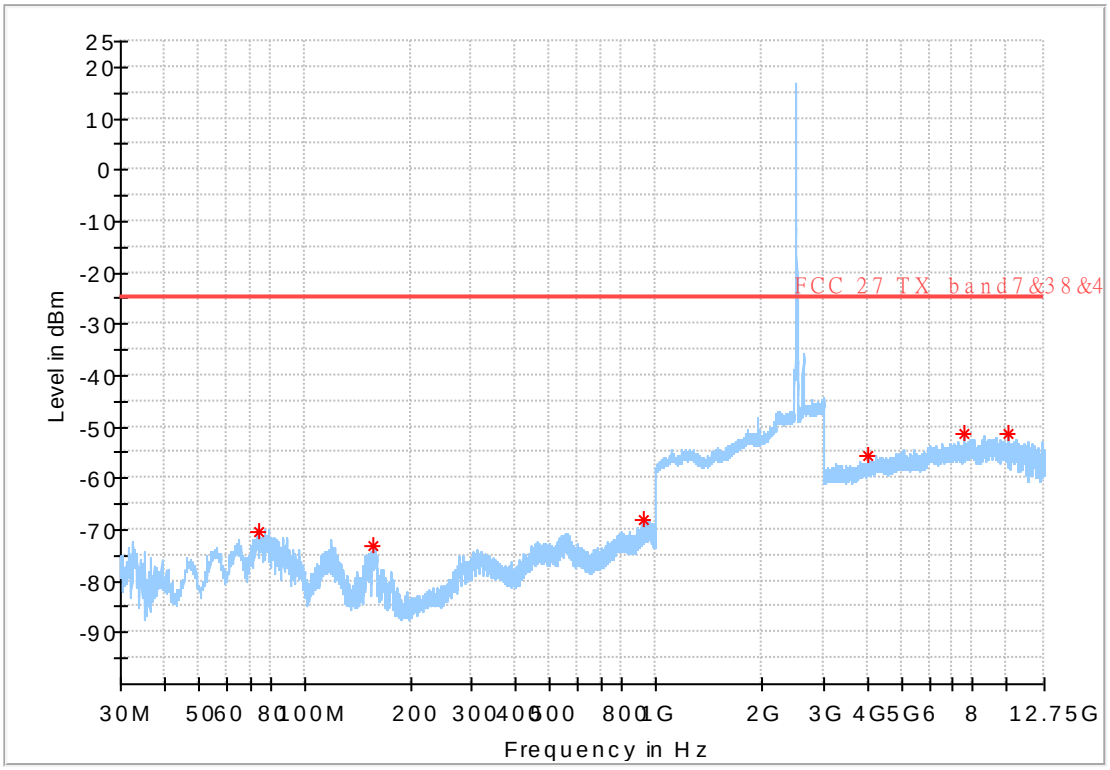
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.700000	-68.31	-25.00	43.31	---	---	200.0	H	335.0	-95.3
153.800000	-69.56	-25.00	44.56	---	---	200.0	H	9.0	-109.6
969.062500	-67.95	-25.00	42.95	---	---	200.0	H	264.0	-92.1
5102.100000	-53.90	-25.00	28.90	---	---	200.0	H	1.0	-101.5
7994.925000	-52.63	-25.00	27.63	---	---	200.0	H	0.0	-98.3
10204.600000	-46.72	-25.00	21.72	---	---	200.0	H	1.0	-97.1

4.4.1.1.2 Test Mode =LTE/TM1 (Up Ant)

4.4.1.1.2.1Test Channel = LCH_ Vertical

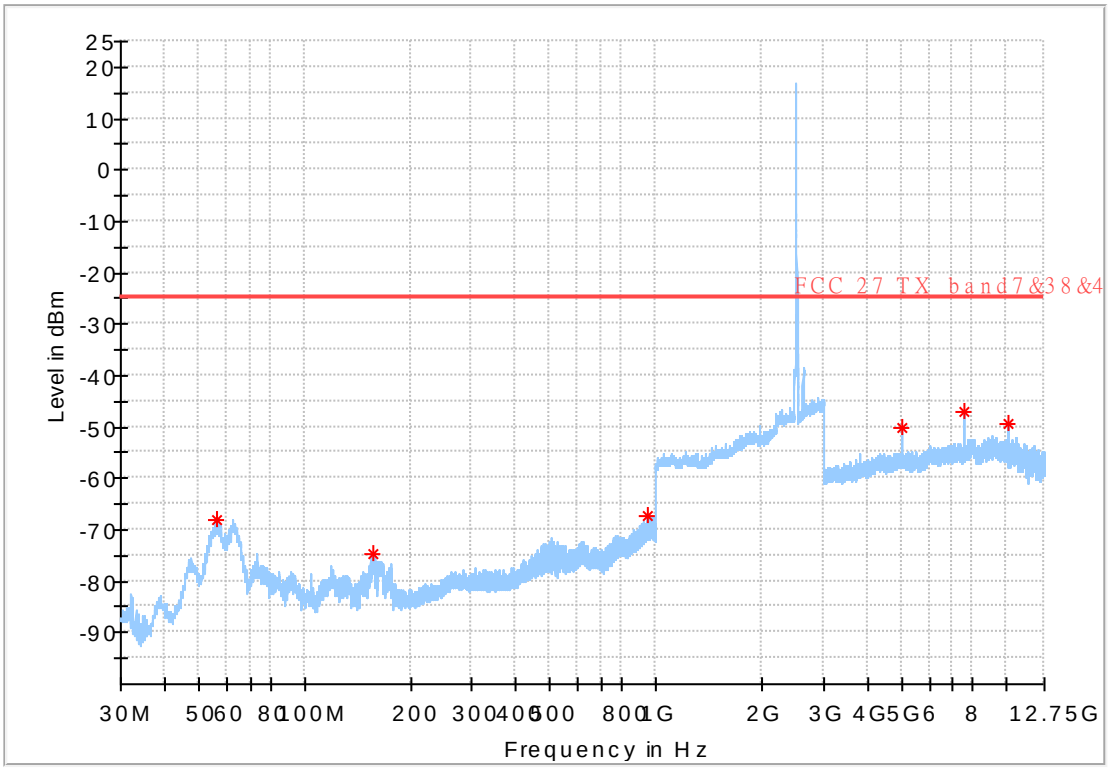
Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
74.250000	-70.59	-25.00	45.59	---	---	200.0	V	306.0	-104.9
157.250000	-73.20	-25.00	48.20	---	---	200.0	V	329.0	-108.8
927.308333	-68.13	-25.00	43.13	---	---	200.0	V	322.0	-93.0
4003.600000	-55.56	-25.00	30.56	---	---	200.0	V	0.0	-103.5
7503.525000	-51.37	-25.00	26.37	---	---	200.0	V	0.0	-99.0
10004.400000	-51.47	-25.00	26.47	---	---	200.0	V	358.0	-97.2

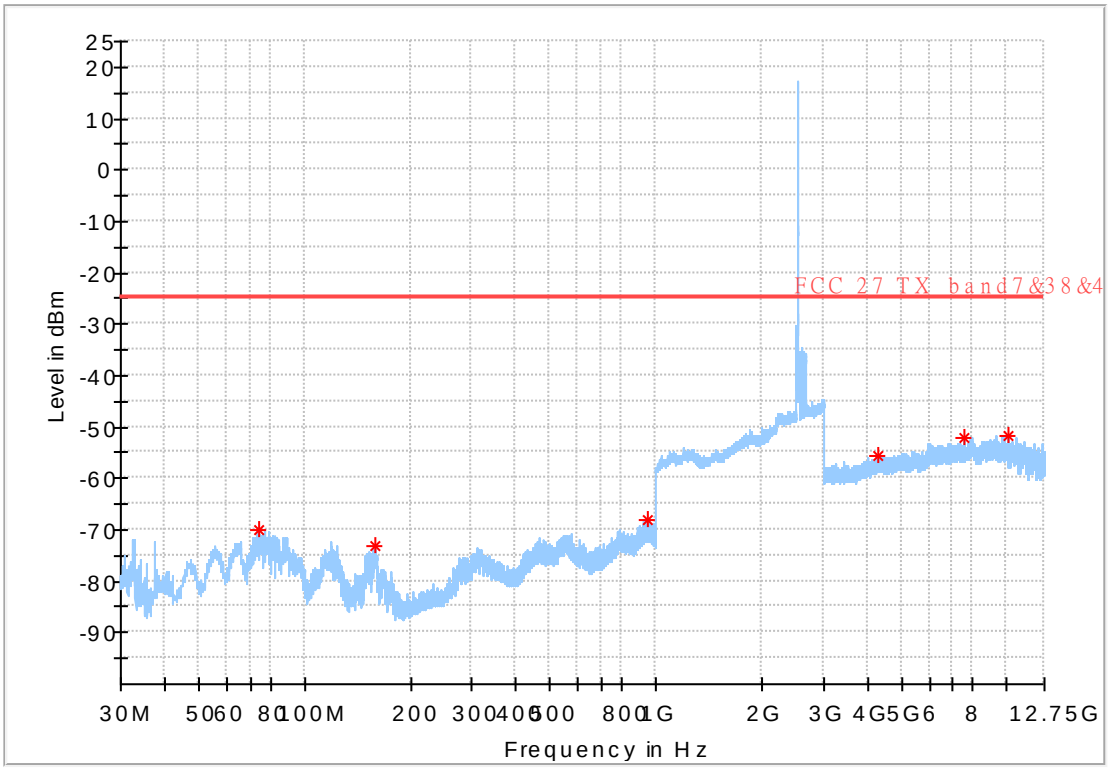
4.4.1.1.2.2Test Channel = LCH_ Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.550000	-68.07	-25.00	43.07	---	---	200.0	H	1.0	-96.7
156.550000	-74.80	-25.00	49.80	---	---	200.0	H	1.0	-109.2
949.950000	-67.15	-25.00	42.15	---	---	200.0	H	97.0	-91.9
5002.000000	-50.09	-25.00	25.09	---	---	200.0	H	149.0	-101.4
7503.200000	-46.92	-25.00	21.92	---	---	200.0	H	359.0	-99.1
10004.400000	-49.19	-25.00	24.19	---	---	200.0	H	359.0	-97.3

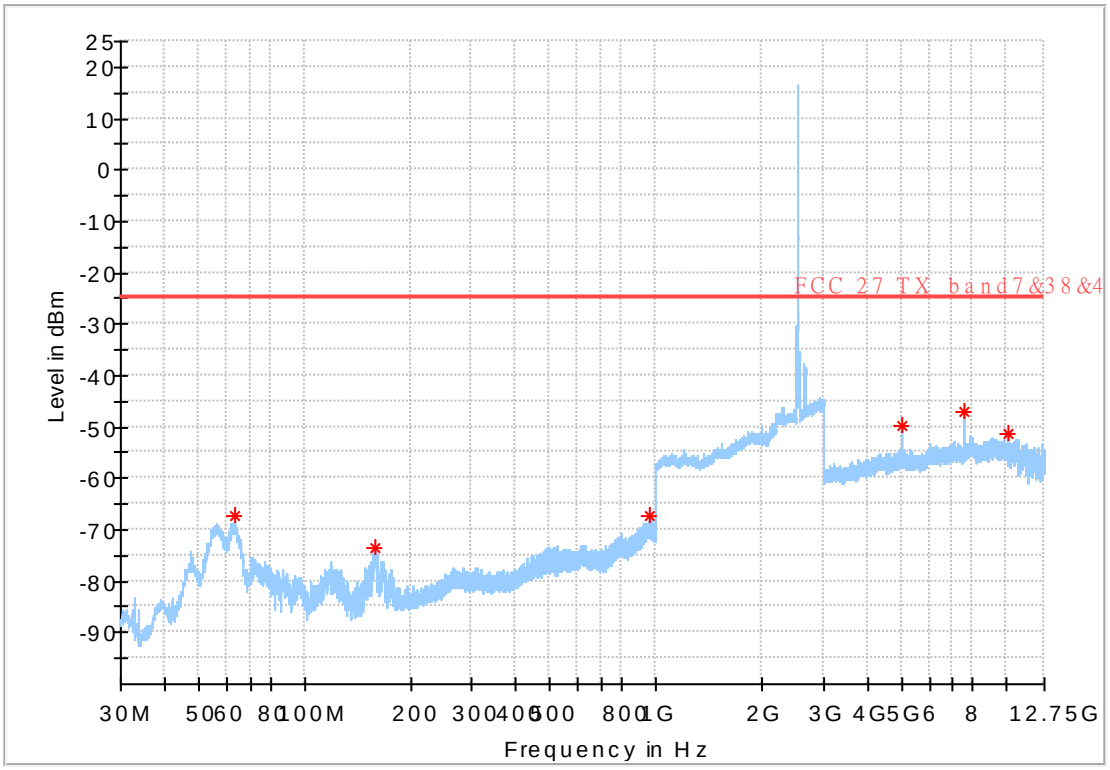
4.4.1.1.2.3Test Channel = MCH_ Vertical



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
74.200000	-70.13	-25.00	45.13	---	---	200.0	V	283.0	-104.9
158.050000	-73.13	-25.00	48.13	---	---	200.0	V	329.0	-108.8
943.075000	-68.06	-25.00	43.06	---	---	200.0	V	0.0	-92.4
4296.425000	-55.55	-25.00	30.55	---	---	200.0	V	0.0	-102.8
7577.950000	-52.22	-25.00	27.22	---	---	200.0	V	0.0	-98.8
10104.500000	-51.89	-25.00	26.89	---	---	200.0	V	358.0	-97.2

4.4.1.1.2.4Test Channel = MCH_ Horizontal

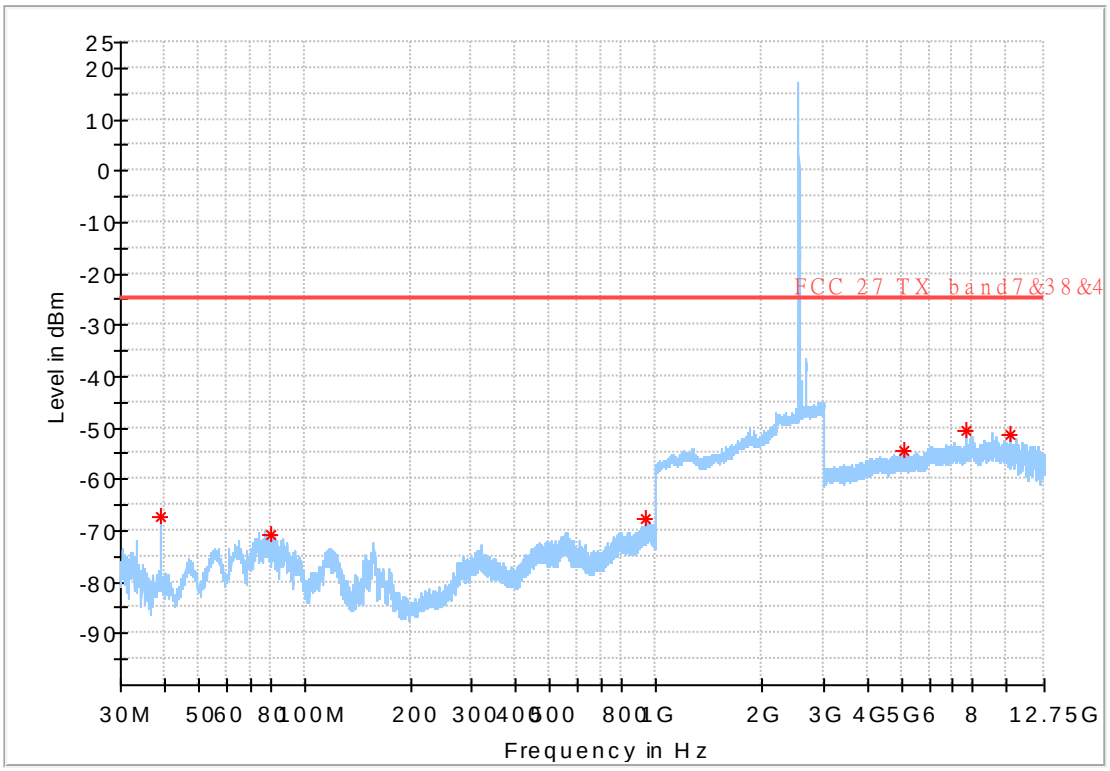


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.100000	-67.37	-25.00	42.37	---	---	200.0	H	0.0	-95.8
159.300000	-73.48	-25.00	48.48	---	---	200.0	H	0.0	-108.6
960.170833	-67.23	-25.00	42.23	---	---	200.0	H	283.0	-91.9
5052.050000	-49.90	-25.00	24.90	---	---	200.0	H	148.0	-101.5
7578.275000	-46.96	-25.00	21.96	---	---	200.0	H	359.0	-98.9
10104.175000	-51.40	-25.00	26.40	---	---	200.0	H	359.0	-97.2

4.4.1.1.2.5Test Channel = HCH_ Vertical

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.950000	-67.44	-25.00	42.44	---	---	200.0	V	148.0	-109.5
80.400000	-70.77	-25.00	45.77	---	---	200.0	V	287.0	-110.5
932.029167	-67.59	-25.00	42.59	---	---	200.0	V	151.0	-92.8
5101.775000	-54.59	-25.00	29.59	---	---	200.0	V	212.0	-101.6
7653.025000	-50.46	-25.00	25.46	---	---	200.0	V	1.0	-98.4
10204.275000	-51.18	-25.00	26.18	---	---	200.0	V	1.0	-97.0

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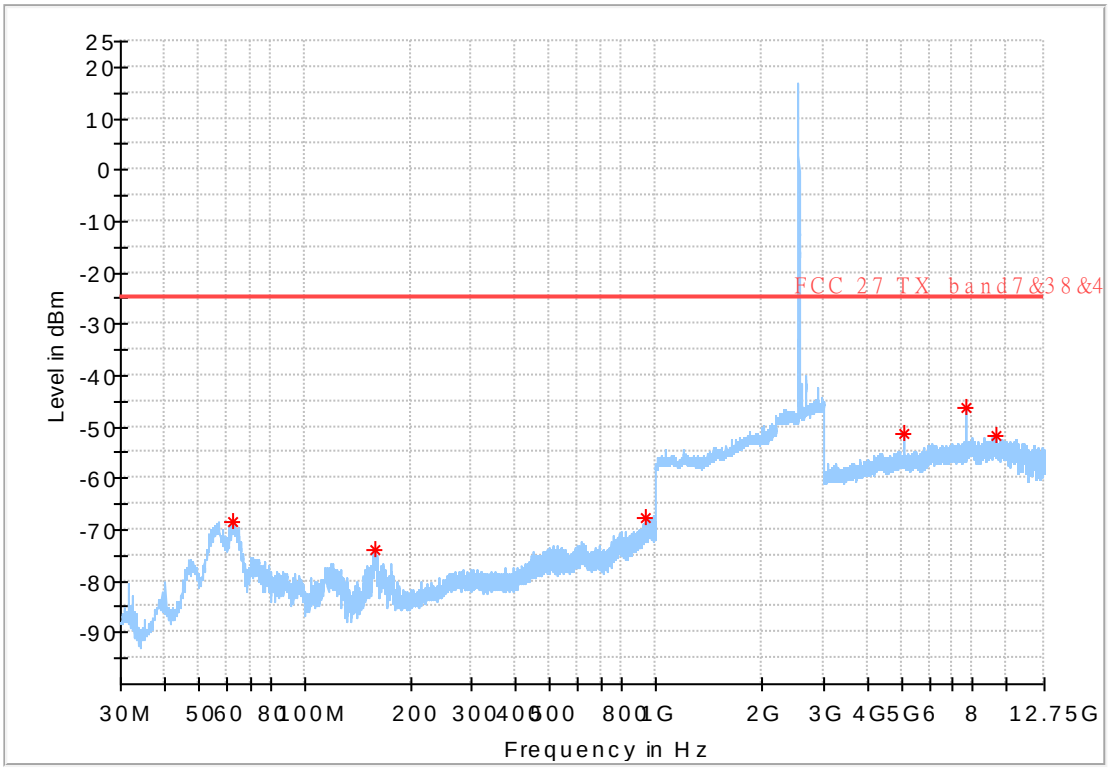
4.4.1.1.2.6Test Channel = HCH_ Horizontal



Critical_Freqs

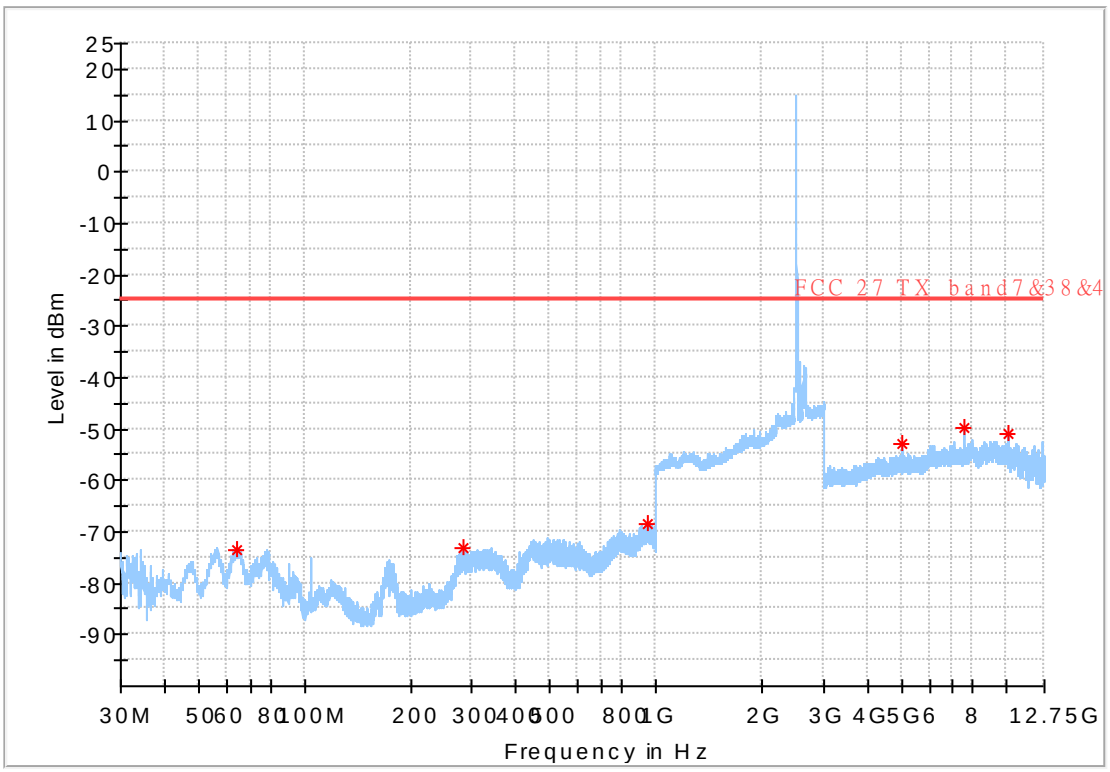
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.500000	-68.57	-25.00	43.57	---	---	200.0	H	282.0	-95.1
159.250000	-74.09	-25.00	49.09	---	---	200.0	H	2.0	-108.7
929.600000	-67.83	-25.00	42.83	---	---	200.0	H	61.0	-93.0
5102.100000	-51.20	-25.00	26.20	---	---	200.0	H	359.0	-101.5
7653.025000	-46.33	-25.00	21.33	---	---	200.0	H	359.0	-98.4
9244.550000	-51.87	-25.00	26.87	---	---	200.0	H	359.0	-96.9

4.4.1.2 Test Band = LTE Band CA_7C

4.4.1.2.1 Test Mode =LTE/QPSK _ (Up Antenna)

4.4.1.2.1.1Test Channel = LCH _Vertical

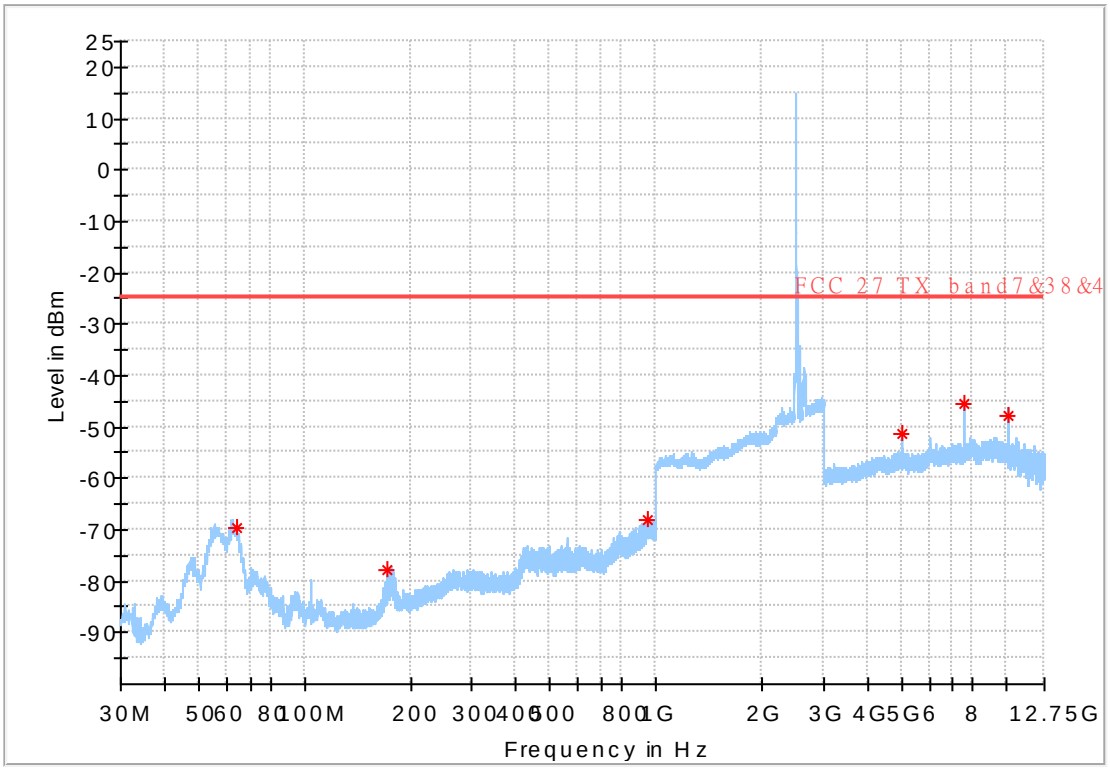
Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.850000	-73.43	-25.00	48.43	---	---	200.0	V	307.0	-100.0
282.350000	-73.23	-25.00	48.23	---	---	200.0	V	353.0	-102.9
947.245833	-68.62	-25.00	43.62	---	---	200.0	V	321.0	-92.3
5002.000000	-52.73	-25.00	27.73	---	---	200.0	V	0.0	-101.5
7503.525000	-49.94	-25.00	24.94	---	---	200.0	V	0.0	-99.0
10004.400000	-51.00	-25.00	26.00	---	---	200.0	V	359.0	-97.2

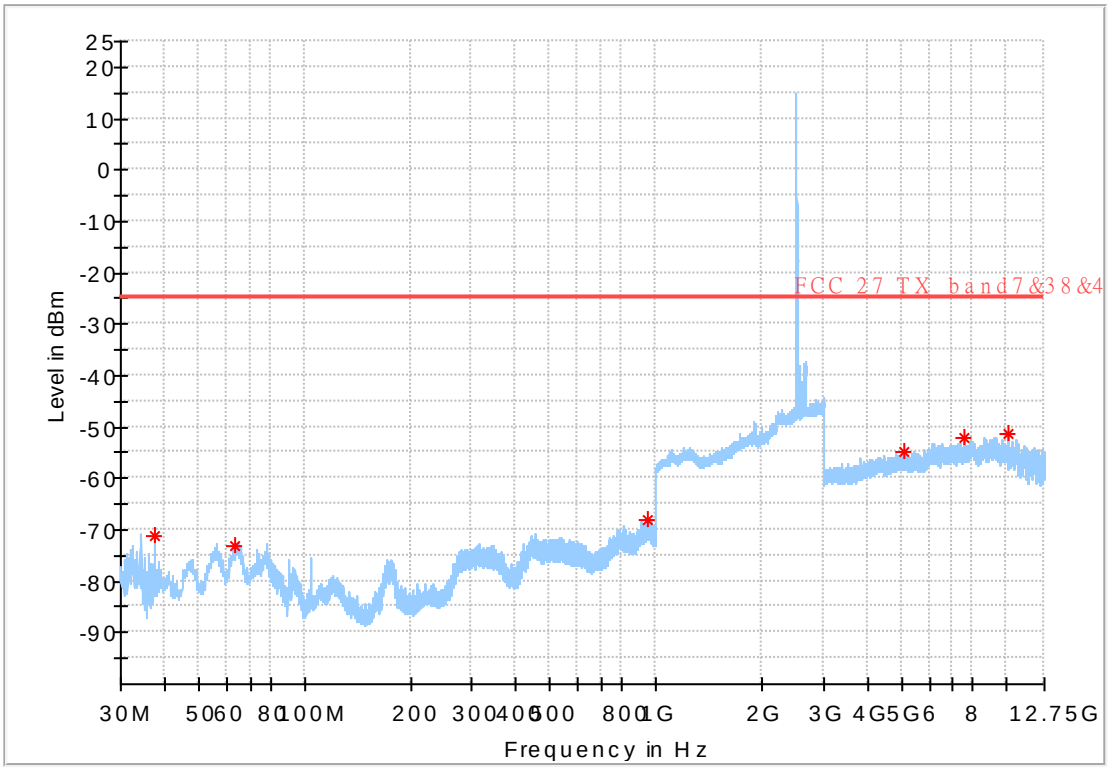
4.4.1.2.1.2Test Channel = LCH _Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.150000	-69.48	-25.00	44.48	---	---	200.0	H	26.0	-96.9
172.600000	-77.64	-25.00	52.64	---	---	200.0	H	119.0	-107.2
946.650000	-67.91	-25.00	42.91	---	---	200.0	H	133.0	-92.0
5001.675000	-51.16	-25.00	26.16	---	---	200.0	H	148.0	-101.4
7503.200000	-45.58	-25.00	20.58	---	---	200.0	H	358.0	-99.1
10003.750000	-47.89	-25.00	22.89	---	---	200.0	H	358.0	-97.3

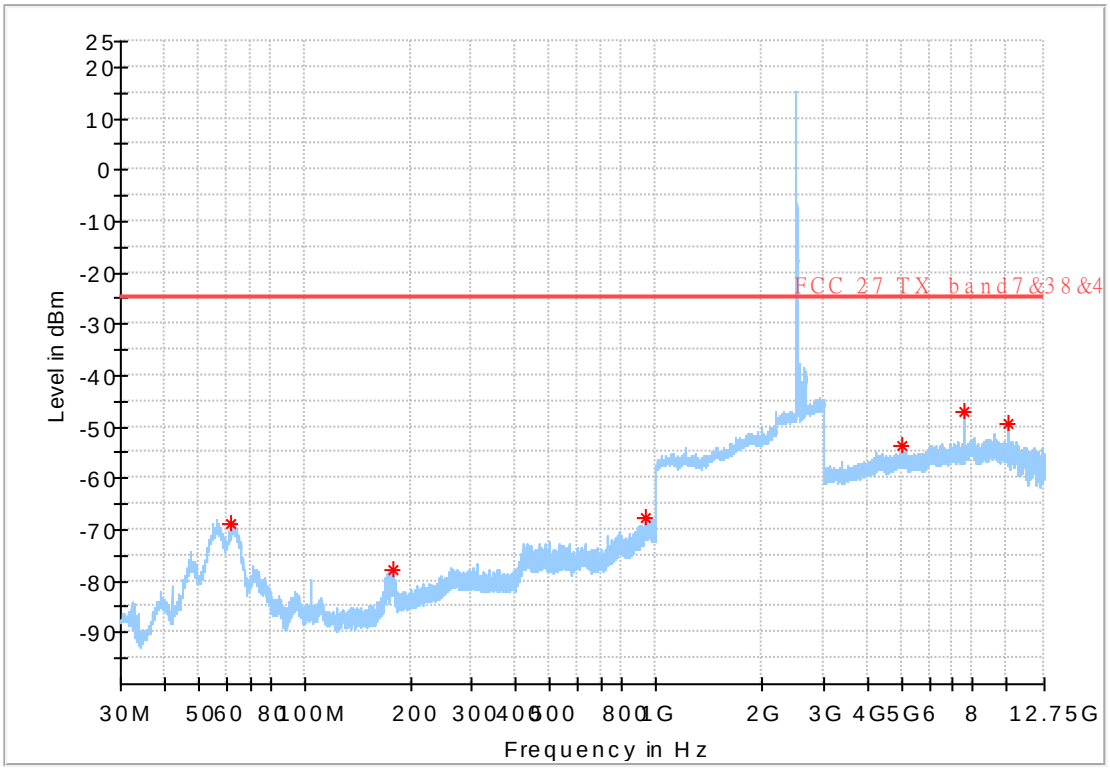
4.4.1.2.1.3Test Channel = MCH _Vertical



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
37.400000	-71.07	-25.00	46.07	---	---	200.0	V	236.0	-111.9
63.250000	-73.01	-25.00	48.01	---	---	200.0	V	143.0	-100.2
945.595833	-67.89	-25.00	42.89	---	---	200.0	V	60.0	-92.3
5090.400000	-54.72	-25.00	29.72	---	---	200.0	V	0.0	-101.6
7548.050000	-52.29	-25.00	27.29	---	---	200.0	V	0.0	-99.0
10065.175000	-51.48	-25.00	26.48	---	---	200.0	V	359.0	-97.0

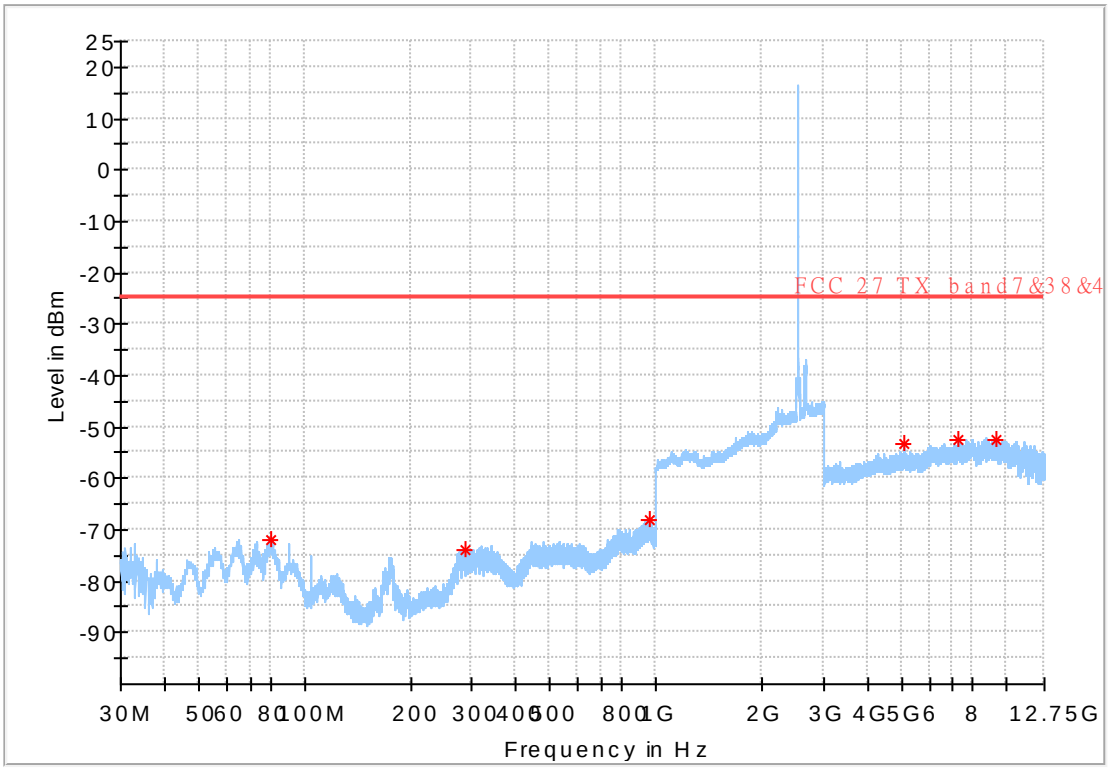
4.4.1.2.1.4Test Channel = MCH _Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.550000	-68.86	-25.00	43.86	---	---	200.0	H	213.0	-95.0
178.150000	-77.62	-25.00	52.62	---	---	200.0	H	143.0	-107.2
934.183333	-67.79	-25.00	42.79	---	---	200.0	H	0.0	-92.7
5031.900000	-53.53	-25.00	28.53	---	---	200.0	H	148.0	-101.4
7548.700000	-47.06	-25.00	22.06	---	---	200.0	H	359.0	-99.1
10064.525000	-49.54	-25.00	24.54	---	---	200.0	H	359.0	-97.1

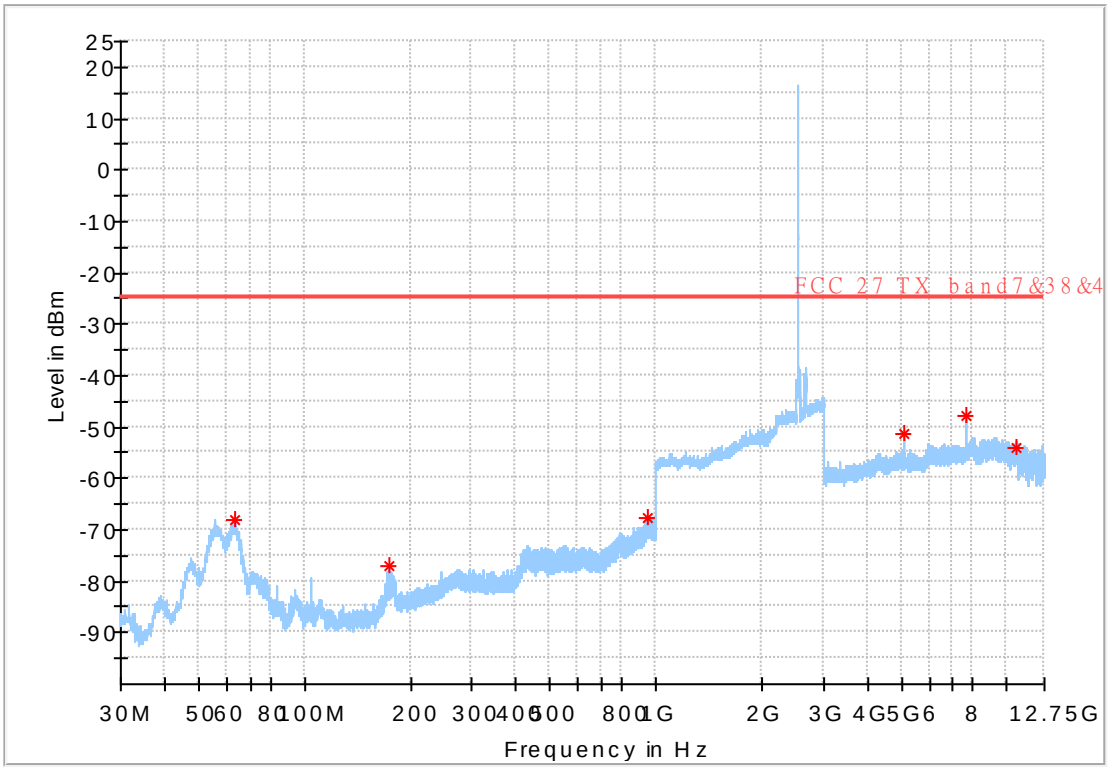
4.4.1.2.1.5Test Channel = HCH _Vertical



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
79.850000	-72.13	-25.00	47.13	---	---	200.0	V	306.0	-110.2
286.650000	-74.00	-25.00	49.00	---	---	200.0	V	0.0	-102.8
955.266667	-68.23	-25.00	43.23	---	---	200.0	V	23.0	-92.3
5062.450000	-53.42	-25.00	28.42	---	---	200.0	V	0.0	-101.6
7206.475000	-52.61	-25.00	27.61	---	---	200.0	V	0.0	-99.3
9280.950000	-52.52	-25.00	27.52	---	---	200.0	V	148.0	-96.9

4.4.1.2.1.6Test Channel = HCH _Horizontal



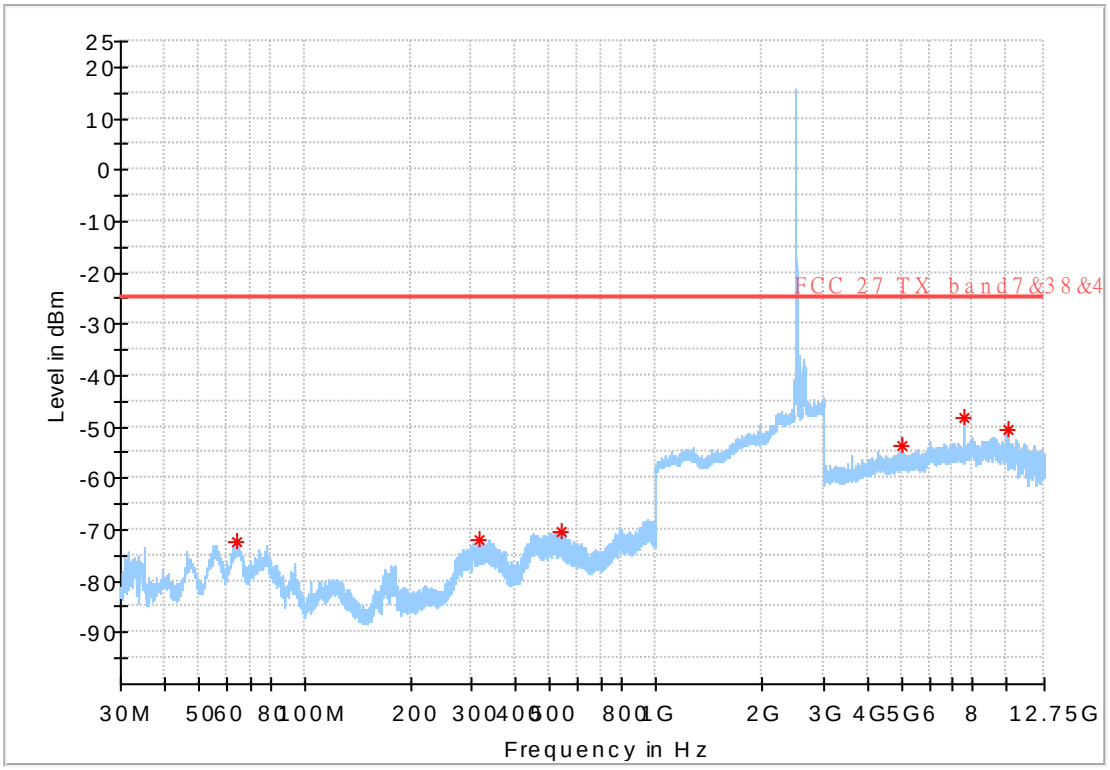
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.800000	-68.17	-25.00	43.17	---	---	200.0	H	235.0	-96.5
173.650000	-76.88	-25.00	51.88	---	---	200.0	H	141.0	-107.1
953.341667	-67.82	-25.00	42.82	---	---	200.0	H	61.0	-91.9
5062.450000	-51.31	-25.00	26.31	---	---	200.0	H	358.0	-101.5
7593.875000	-47.88	-25.00	22.88	---	---	200.0	H	358.0	-98.8
10651.475000	-54.24	-25.00	29.24	---	---	200.0	H	0.0	-96.3

4.4.1.2.2 Test Mode =LTE/QPSK _ (Down Antenna)

4.4.1.2.2.1Test Channel = LCH _Vertical

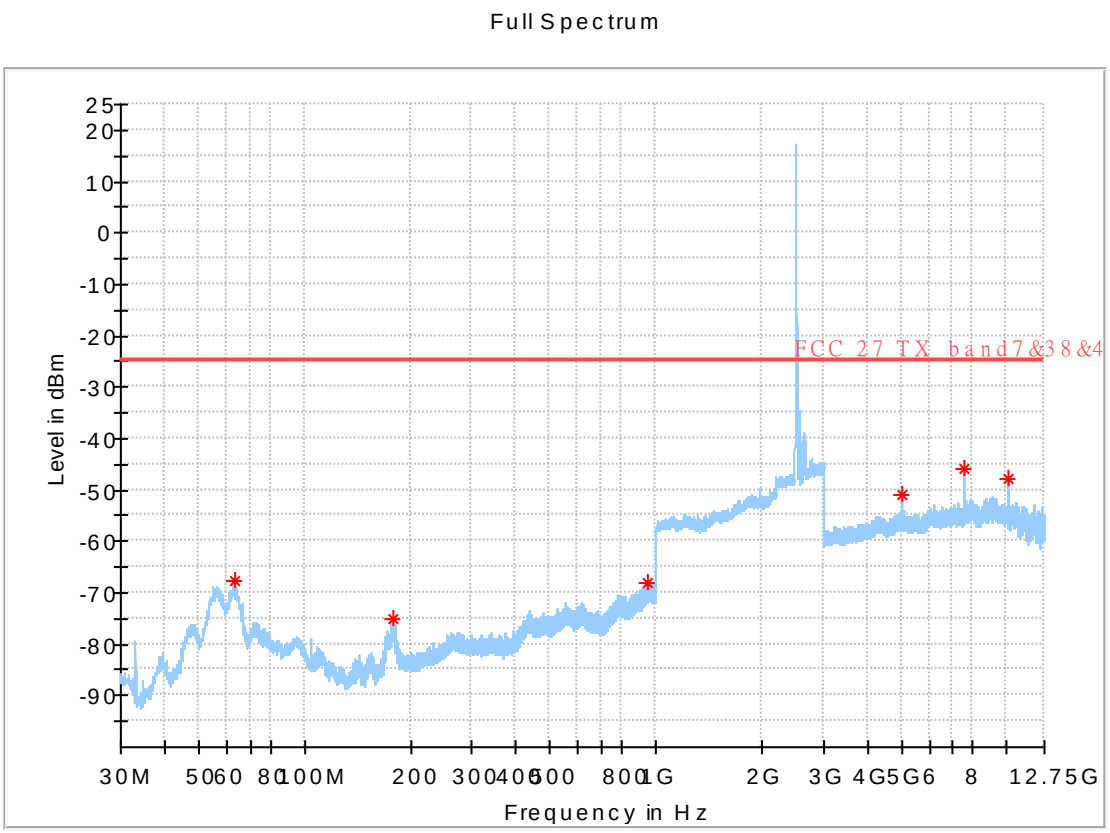
Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.400000	-72.54	-25.00	47.54	---	---	200.0	V	164.0	-99.9
313.850000	-71.98	-25.00	46.98	---	---	200.0	V	304.0	-102.0
539.191667	-70.57	-25.00	45.57	---	---	200.0	V	98.0	-101.0
5002.000000	-53.66	-25.00	28.66	---	---	200.0	V	0.0	-101.5
7503.200000	-48.29	-25.00	23.29	---	---	200.0	V	0.0	-99.0
10004.725000	-50.61	-25.00	25.61	---	---	200.0	V	358.0	-97.2

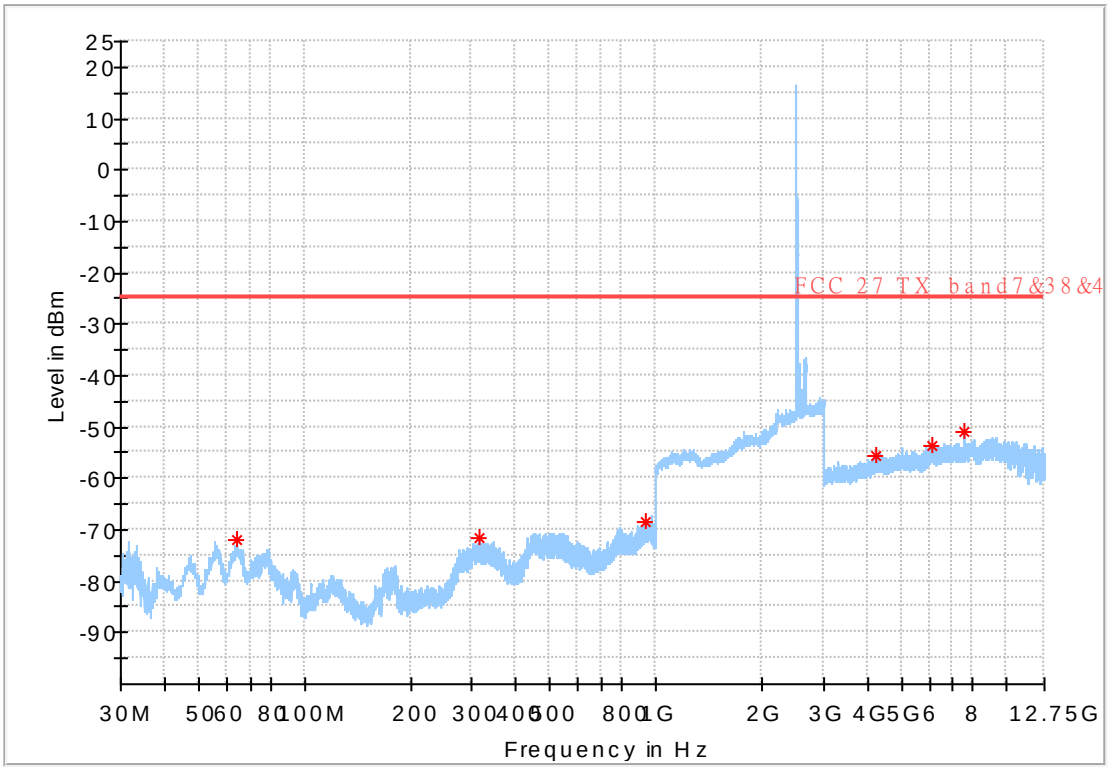
4.4.1.2.2.2Test Channel = LCH _Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.000000	-67.69	-25.00	42.69	---	---	200.0	H	281.0	-95.7
178.250000	-75.23	-25.00	50.23	---	---	200.0	H	141.0	-107.2
942.525000	-68.20	-25.00	43.20	---	---	200.0	H	0.0	-92.2
5002.325000	-50.75	-25.00	25.75	---	---	200.0	H	149.0	-101.4
7503.200000	-45.72	-25.00	20.72	---	---	200.0	H	359.0	-99.1
10004.075000	-47.65	-25.00	22.65	---	---	200.0	H	359.0	-97.3

4.4.1.2.2.3Test Channel = MCH _Vertical

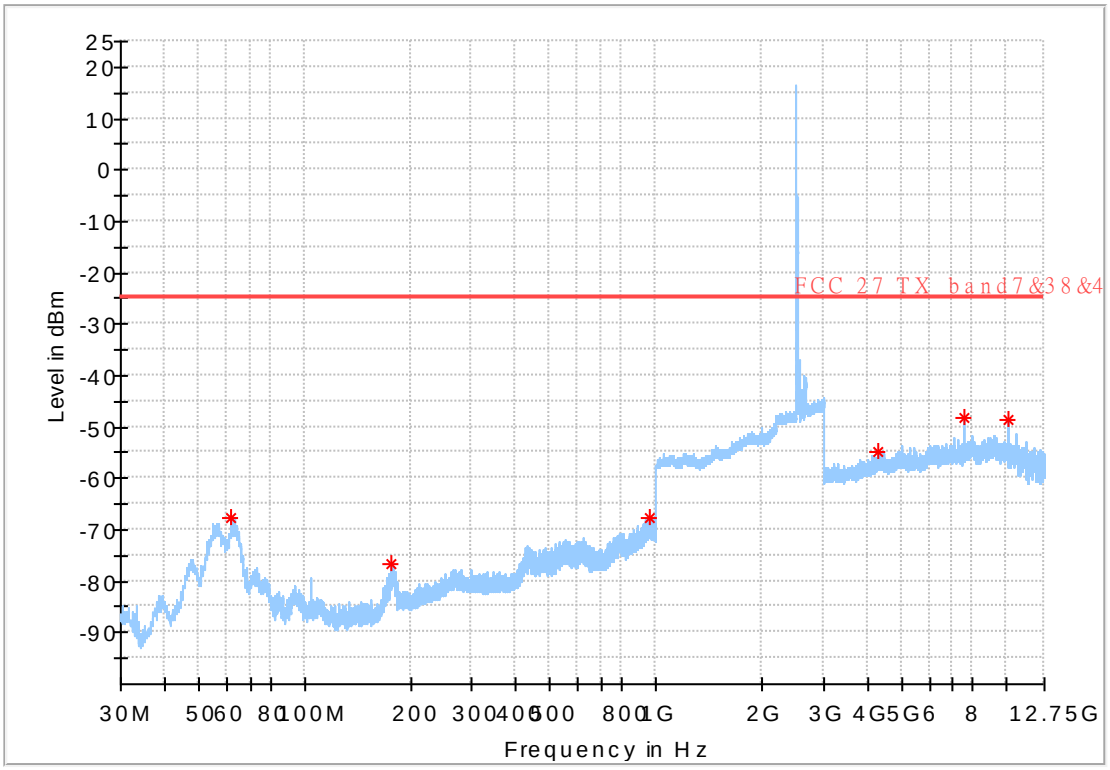


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.400000	-72.03	-25.00	47.03	---	---	200.0	V	0.0	-99.9
312.950000	-71.67	-25.00	46.67	---	---	200.0	V	236.0	-102.0
934.641667	-68.49	-25.00	43.49	---	---	200.0	V	0.0	-92.7
4236.300000	-55.78	-25.00	30.78	---	---	200.0	V	148.0	-103.1
6087.175000	-53.67	-25.00	28.67	---	---	200.0	V	0.0	-99.8
7548.375000	-51.06	-25.00	26.06	---	---	200.0	V	0.0	-99.0

4.4.1.2.2.4Test Channel = MCH _Horizontal

Full Spectrum

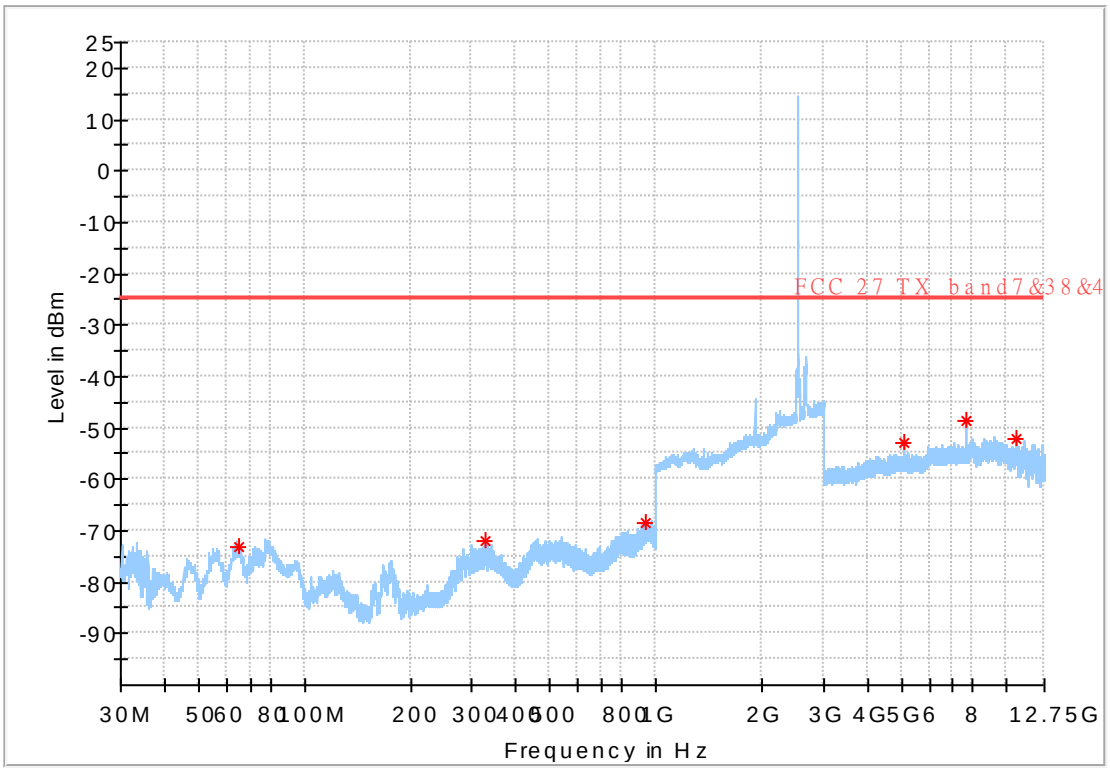


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.050000	-67.78	-25.00	42.78	---	---	200.0	H	25.0	-95.0
177.500000	-76.72	-25.00	51.72	---	---	200.0	H	141.0	-107.2
959.116667	-67.80	-25.00	42.80	---	---	200.0	H	246.0	-91.8
4306.175000	-54.74	-25.00	29.74	---	---	200.0	H	358.0	-102.6
7548.700000	-48.13	-25.00	23.13	---	---	200.0	H	358.0	-99.1
10065.175000	-48.69	-25.00	23.69	---	---	200.0	H	358.0	-97.1

4.4.1.2.2.5Test Channel = HCH _Vertical

Full Spectrum

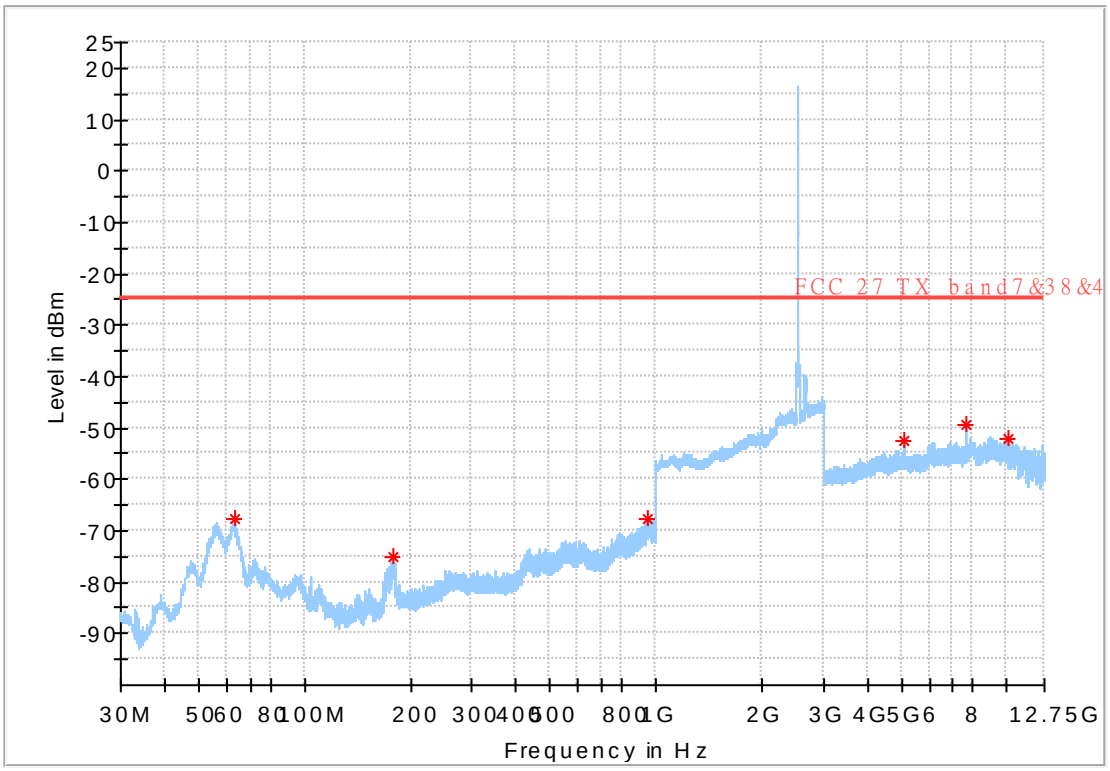


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.700000	-73.21	-25.00	48.21	---	---	200.0	V	281.0	-99.9
325.700000	-71.94	-25.00	46.94	---	---	200.0	V	0.0	-102.0
933.770833	-68.33	-25.00	43.33	---	---	200.0	V	209.0	-92.8
5062.125000	-52.84	-25.00	27.84	---	---	200.0	V	0.0	-101.6
7593.875000	-48.72	-25.00	23.72	---	---	200.0	V	0.0	-98.7
10629.050000	-52.08	-25.00	27.08	---	---	200.0	V	359.0	-96.3

4.4.1.2.2.6Test Channel = HCH _Horizontal

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.050000	-67.87	-25.00	42.87	---	---	200.0	H	50.0	-95.7
178.800000	-75.17	-25.00	50.17	---	---	200.0	H	142.0	-107.2
949.950000	-67.60	-25.00	42.60	---	---	200.0	H	0.0	-91.9
5062.450000	-52.34	-25.00	27.34	---	---	200.0	H	148.0	-101.5
7593.875000	-49.35	-25.00	24.35	---	---	200.0	H	359.0	-98.8
10124.650000	-52.27	-25.00	27.27	---	---	200.0	H	359.0	-97.3

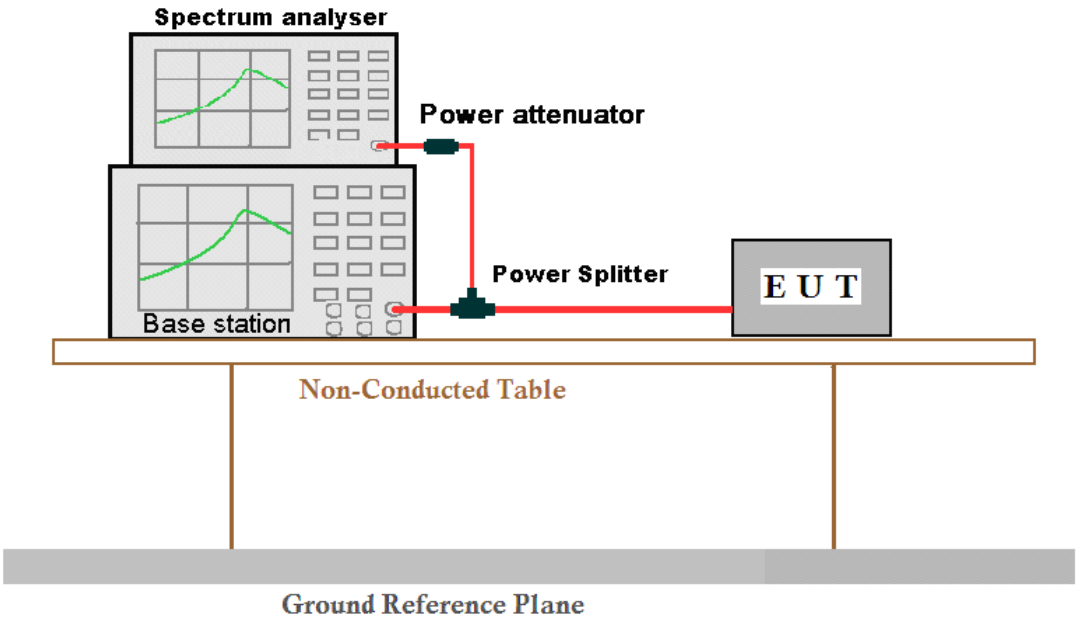
NOTE:

1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

2) We have tested all combinations and all modulations, but only the worst case data presented in this report.

4.5 Test Setups

4.5.1 Test Setup 1



4.5.2 Test Setup 2

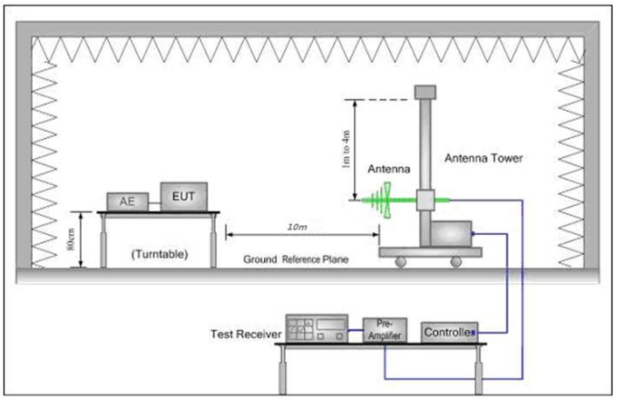


Figure 1. 30MHz to 1GHz

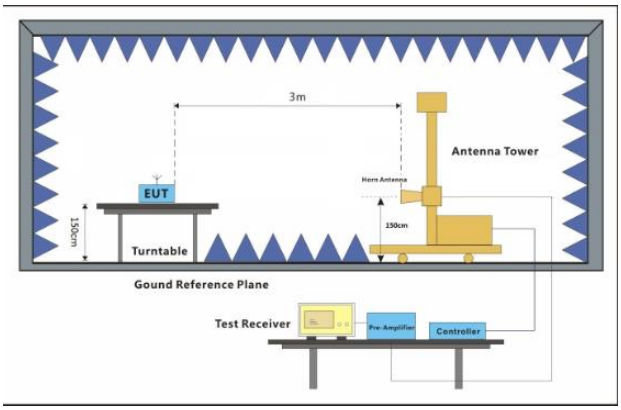


Figure 2. above 1GHz

4.5.3 Test Setup 3

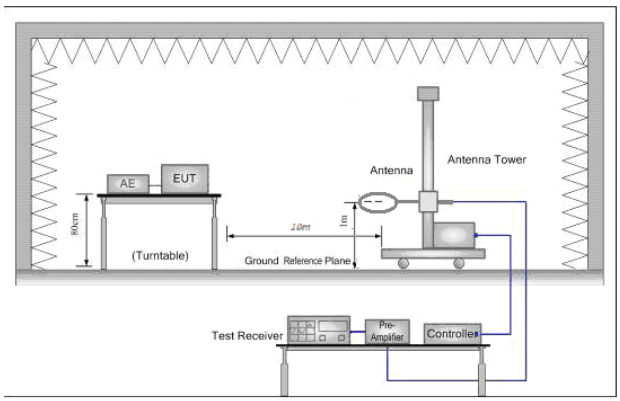


Figure 1. Below 30MHz

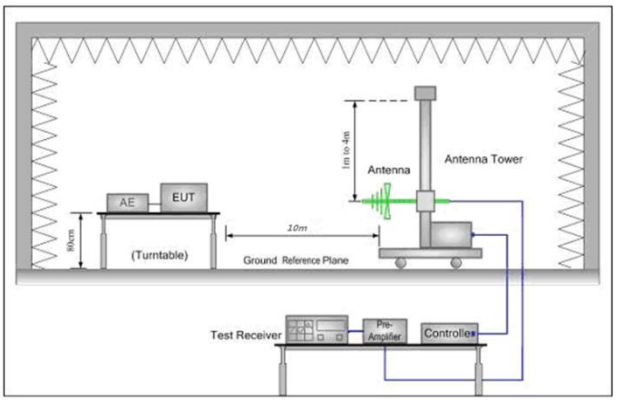


Figure 2. 30MHz to 1GHz

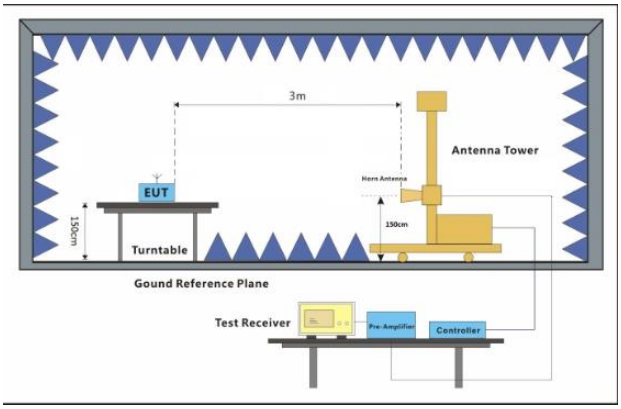
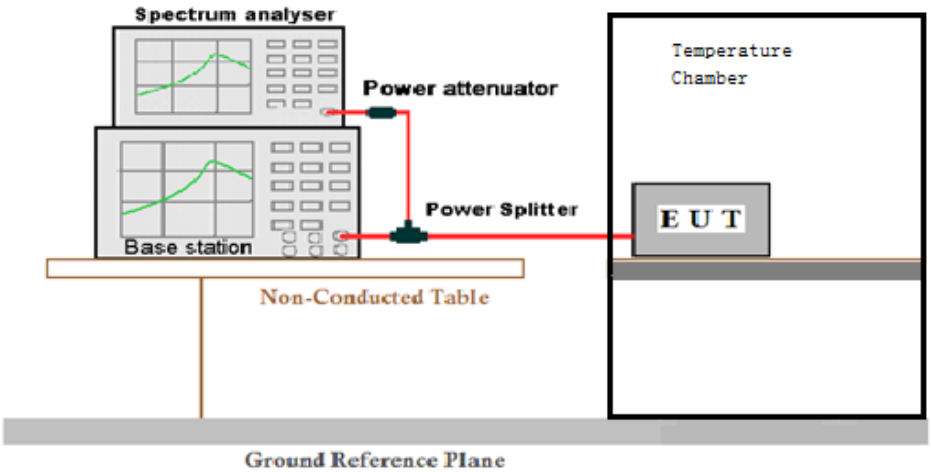


Figure 3. above 1GHz

4.5.4 Test Setup 4



4.6 Test Conditions

Test Case		Test Conditions	
Transmit Output Power Data	Average Power, Total	Test Environment	Ambient Climate & Rated Voltage
		Test Setup	Test Setup 1
		RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
		Test Mode	LTE/TM1;LTE/TM2/LTE/TM3
	Average Power, Spectral Density (if required)	Test Environment	Ambient Climate & Rated Voltage
		Test Setup	Test Setup 1
		RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
		Test Mode	LTE/TM1;LTE/TM2/LTE/TM3
Field Strength of Spurious Radiation		Test Environment	Ambient Climate & Rated Voltage
		Test Setup	Test Setup 2
		Test Mode	LTE/TM1; Remark: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected.
		RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)

5 Main Test Instruments

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
Dual Output Mobile Communication DC Source	Agilent Technologies Inc	66311B	W009-09	2018/11/2	2019/11/1
Signal Analyzer	Rohde & Schwarz	FSV	W005-02	2019/3/2	2020/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/12	2019/7/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/11/2	2019/11/1
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2018/11/2	2019/11/1
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/2	2019/11/1
Wideband Radio CommunicationTeste	Anristu	MT8821C	6201462742	2019/3/2	2020/3/1
Wideband Radio CommunicationTester	Rohde & Schwarz	CMW500	W005-02	2018/11/2	2019/11/1

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Wideband Radio CommunicationTeste	Anristu	MT8821C	6201462742	2019/4/3	2020/4/3
Wideband Radio CommunicationTester	Rohde & Schwarz	CMW500	W005-02	2019/1/13	2020/1/12
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2019/3/13	2020/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019/3/2	2020/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018/9/25	2019/9/24
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018/9/27	2019/9/26
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/3/2	2020/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018/7/12	2019/7/11
Tunable Notch Filter WRCD1700/2000-0.2/40-10EEK	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Tunable Notch Filter WRCD800/960-0.2/40-10EEK	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHK1.2/15G-10SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHKX10-2700-3000-18000-40SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHKX7.0/26.5G-6SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Band Reject Filter WRCG 824/849-814/859-40/8SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Band Reject Filter WRCG 1850/1910-1835/1925-40/8SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

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6 Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item	Extended Uncertainty	Data
Transmit Output Power Data	Power [dBm]	U =±0.37 dB
Field Strength of Spurious Radiation	ERP[dBm]/EIRP [dBm]	For 3 m Chamber: U = ±4.5 dB (30 MHz to 1GHz) U = ±3.3 dB (above 1 GHz) For 10 m Chamber: U = ±4.5 dB (30 MHz to 1GHz) U = ±3.2 dB (above 1 GHz)

The End

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