

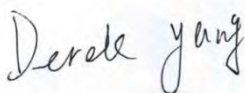
FCC TEST REPORT

Application No.: AR/2020/C0006
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Mobile Phone
Model No.: M2010J19SY
Trade Mark: Redmi
FCC ID: 2AFZZJ19SY
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
Date of Receipt: 2020/12/11
Date of Test: 2020/12/11 to 2020/12/31(for original report AR/2020/C000403-01)
2020/12/20 to 2020/12/31(for new report AR/2020/C000603-01)
Date of Issue: 2021/4/27

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

Authorized Signature:



Derek Yang
Wireless Laboratory Manager



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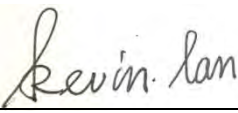
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Shenzhen Branch, Inspection & Testing Services Laboratory

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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/1/7		Original
02		2021/4/27	Kevin.Lan	1.Add test site Information 2.Modify data conversion error of antenna height 3.Update equipment list

*This report supersedes our previous report AR/2020/C000603, issued on 2021-1-7, which is hereby deemed null and void.

Authorized for issue by:		
Prepared By		(Kevin.Lan) /Engineer
Checked By		(David Chen) /Reviewer



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2 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result	Test Lab*
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS	B
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.3	PASS	A
DTS (6 dB) Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS	A
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.5	PASS	A
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS	A
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS	A
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS	B
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS	B



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Remark:

This test report (Report No.: AR/2020/C000603-01) is based on the original test report (Report No.: AR/2020/C000403-01).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

According to the applicant's statement, model numbers: M2010J19SY(FCC ID: 2AFZZJ19SY) and M2010J19SL(FCC ID: 2AFZZJ19SL)

Taking into account the differences, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report only the power was retested and radiated spurious emissions were performed based on the worst case(BLE_1M:Channel:39) of the original report with report number AR/2020/C000403-01 and other test data in this report are based on the previous report with report number AR/2020/C000403-01.

All test were performed by Lab A and B.

Parts of test items above were subcontracted to Lab B.

Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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3 General Information

3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

3.2 Test Location

Lab A:

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
Test Engineer	Dee Zheng, Mike Hu

Lab B:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test Engineer	Ben Huang, Leah Chen



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3.3 Test Facility

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

Lab A:

• **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.

• **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0006.

IC#: 4620C.

Lab B:

• **A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• **FCC –Designation Number: CN1271**



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3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	M2010J19SY
Trade Mark:	Redmi
Hardware Version:	P2
Software Version:	MIUI12
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.
Bluetooth version:	Bluetooth V5.0
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	PIFA Antenna
Antenna Gain:	1.0dBi

Remark: According to the client, the EUT does't support the rates of 2Mbps.

Operation Frequency of each channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz



Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz

3.5 Test Environment

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.30 KPa

3.6 Description of Support Units

The EUT has been tested independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.0dBi.	



4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		



Test Setup:	
Test Mode:	Transmitting with GFSK modulation. Charge +Transmitting mode.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass



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Shenzhen Branch

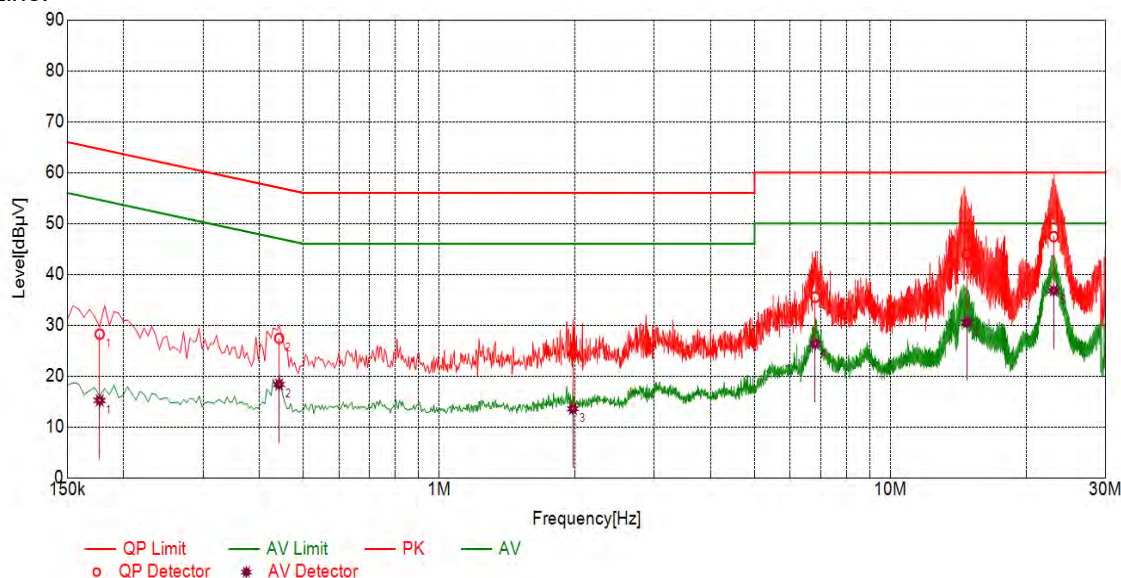
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Test Graph

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.1770	10.10	28.25	64.63	36.38	15.21	54.63	39.42
2	0.4421	10.10	27.42	57.02	29.60	18.36	47.02	28.66
3	1.9798	10.10	24.43	56.00	31.57	13.55	46.00	32.45
4	6.8143	10.10	35.51	60.00	24.49	26.35	50.00	23.65
5	14.7843	10.11	43.93	60.00	16.07	30.58	50.00	19.42
6	23.0094	10.11	47.42	60.00	12.58	36.80	50.00	13.20

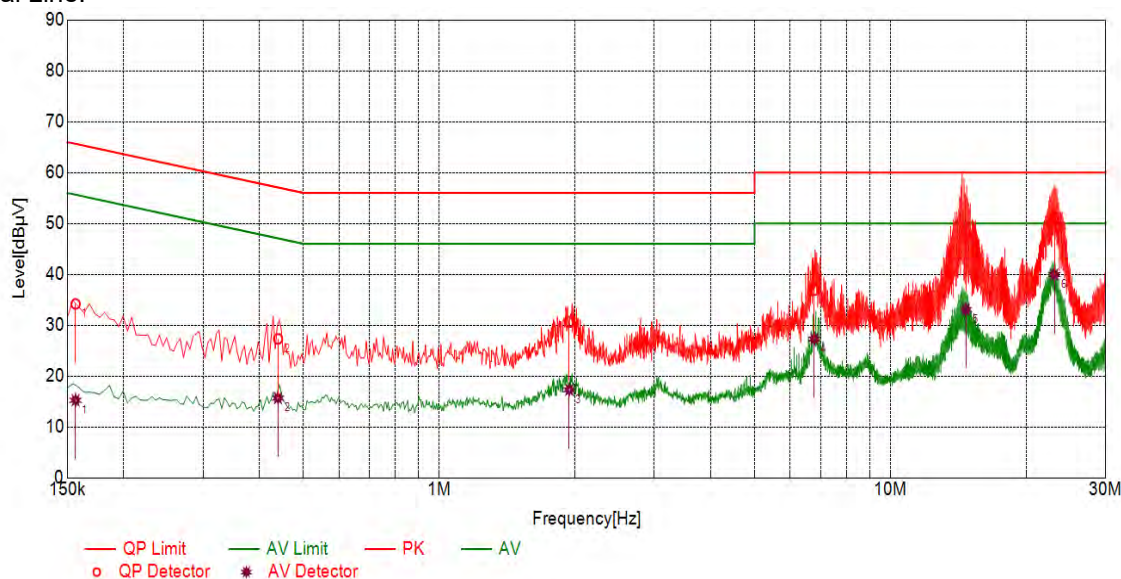


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Neutral Line:



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.1565	10.10	34.18	65.65	31.47	15.23	55.65	40.42
2	0.4397	10.10	27.32	57.07	29.75	15.67	47.07	31.40
3	1.9430	10.10	30.60	56.00	25.40	17.30	46.00	28.70
4	6.7870	10.10	36.95	60.00	23.05	27.28	50.00	22.72
5	14.6966	10.11	48.29	60.00	11.71	33.08	50.00	16.92
6	23.0930	10.11	51.19	60.00	8.81	39.96	50.00	10.04



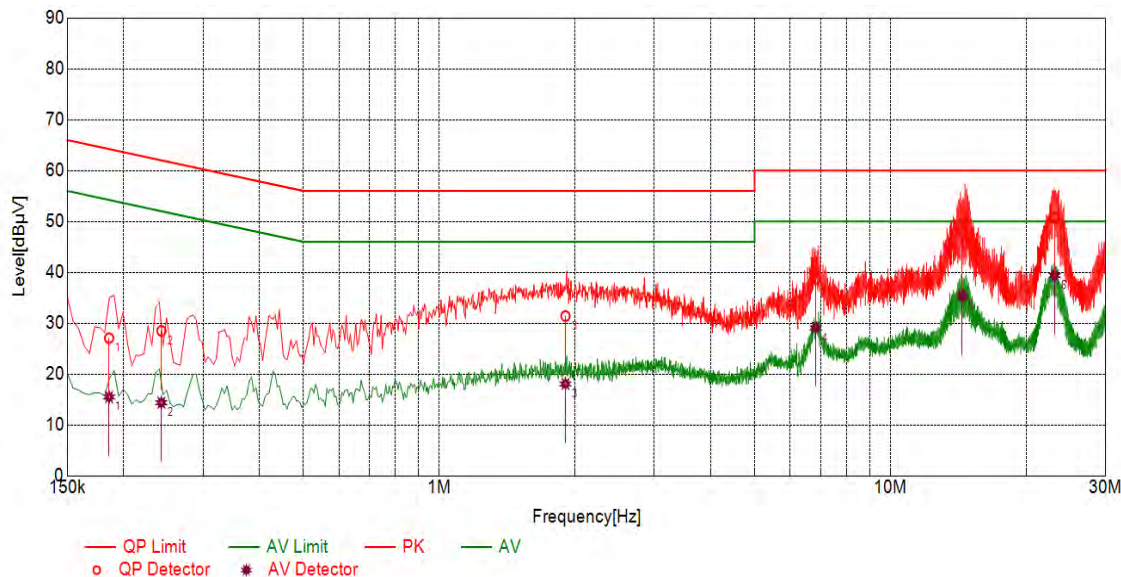
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Test on the worst case:

Live Line:



Test Graph

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1857	10.10	27.07	64.22	37.15	15.48	54.22	38.74	L
2	0.2425	10.10	28.50	62.01	33.51	14.37	52.01	37.64	L
3	1.9057	10.10	31.39	56.00	24.61	18.06	46.00	27.94	L
4	6.8345	10.10	38.72	60.00	21.28	29.08	50.00	20.92	L
5	14.4356	10.11	48.23	60.00	11.77	35.38	50.00	14.62	L
6	23.1348	10.11	50.67	60.00	9.33	39.37	50.00	10.63	L

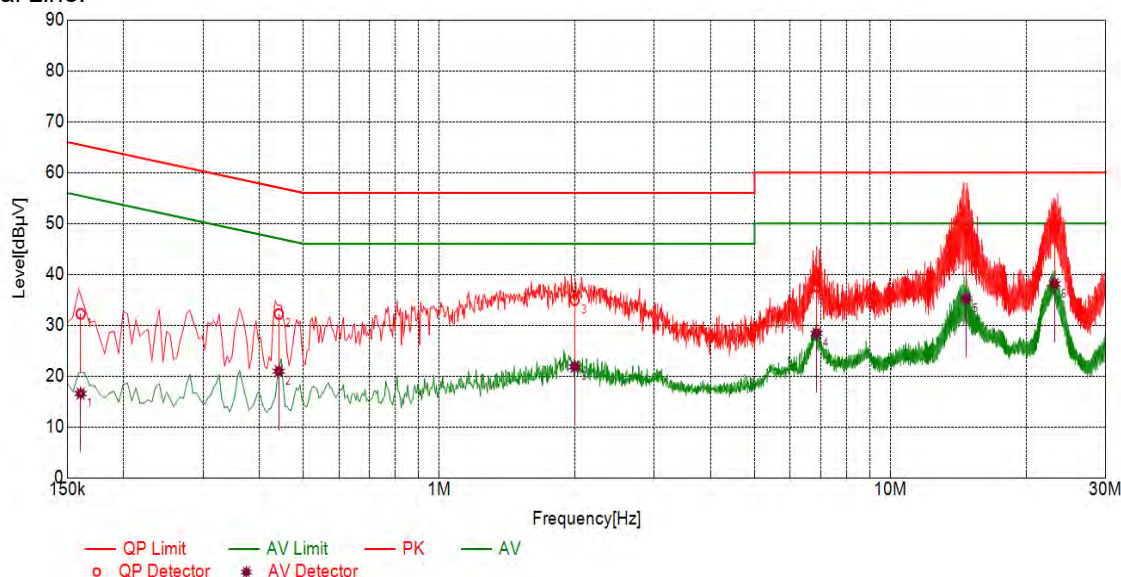


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Neutral Line:



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1606	10.10	32.25	65.43	33.18	16.57	55.43	38.86	N
2	0.4413	10.10	32.22	57.04	24.82	20.96	47.04	26.08	N
3	1.9968	10.10	34.94	56.00	21.06	21.81	46.00	24.19	N
4	6.8616	10.10	37.56	60.00	22.44	28.41	50.00	21.59	N
5	14.7288	10.11	48.74	60.00	11.26	35.19	50.00	14.81	N
6	23.1118	10.11	49.33	60.00	10.67	38.11	50.00	11.89	N

Remarks:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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4.3 Duty Cycle

4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
BLE_1M	CH0, CH19, CH39	62.50



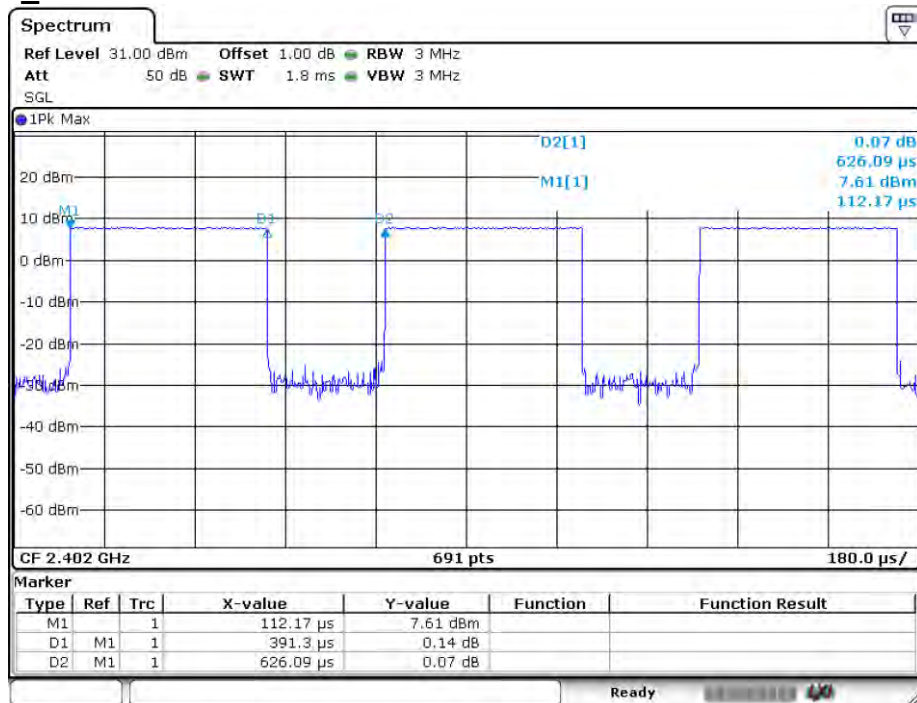
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4.3.2 Test Plots

4.3.2.1 ANT1

4.3.2.1.1 BLE_1M



Date: 24.DEC.2020 15:26:51



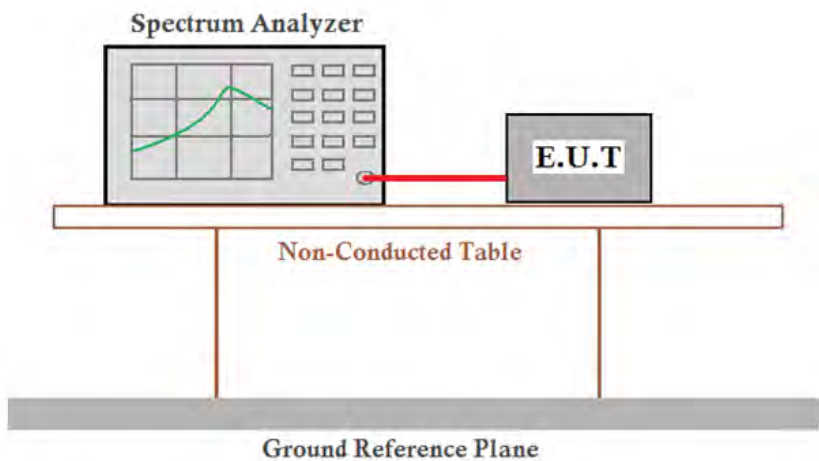
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.1
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass



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4.4.1 Test Results

Measurement Data of Peak Power:

GFSK_1M mode			
Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	7.71	30.00	Pass
Middle	8.49	30.00	Pass
Highest	8.53	30.00	Pass

4.4.2 Test Plots

4.4.2.1 GFSK 1M_Lowest Channel



Date: 7 JAN, 2021 15:01:18



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4.4.2.2 GFSK 1M_Middle Channel



Date: 7 JAN 2021 15:01:06

4.4.2.3 GFSK 1M_Highest Channel



Date: 7 JAN 2021 15:01:33



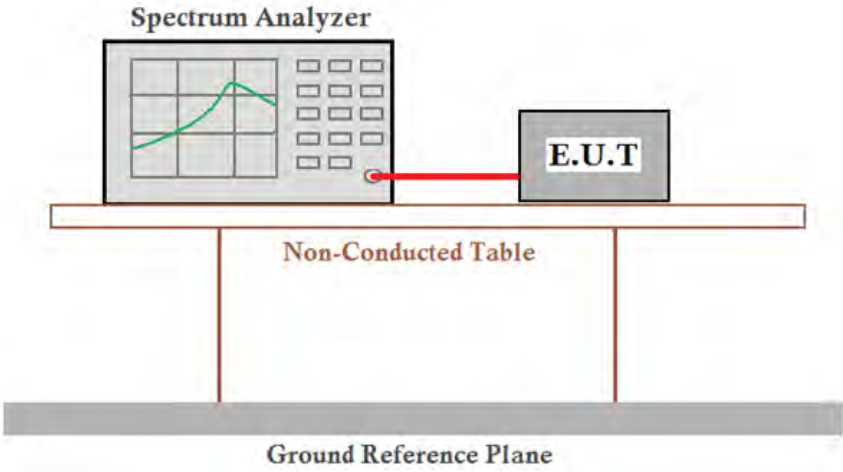
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4.5 DTS (6 dB) Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≥ 500 kHz
Test Results:	Pass

4.5.1 Test Results

Mode	Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK_1M	Lowest	0.66	≥500	Pass
	Middle	0.66	≥500	Pass
	Highest	0.66	≥500	Pass

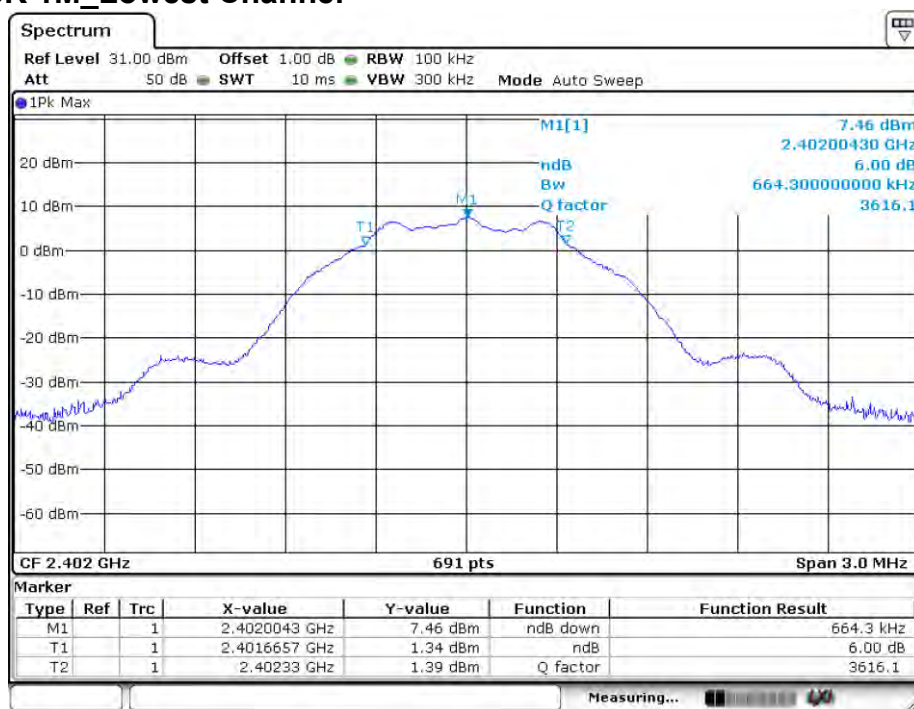


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4.5.2 Test Plots

4.5.2.1 GFSK 1M_Lowest Channel



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4.5.2.2 GFSK 1M_Middle Channel



Date: 24 DEC.2020 15:22:44



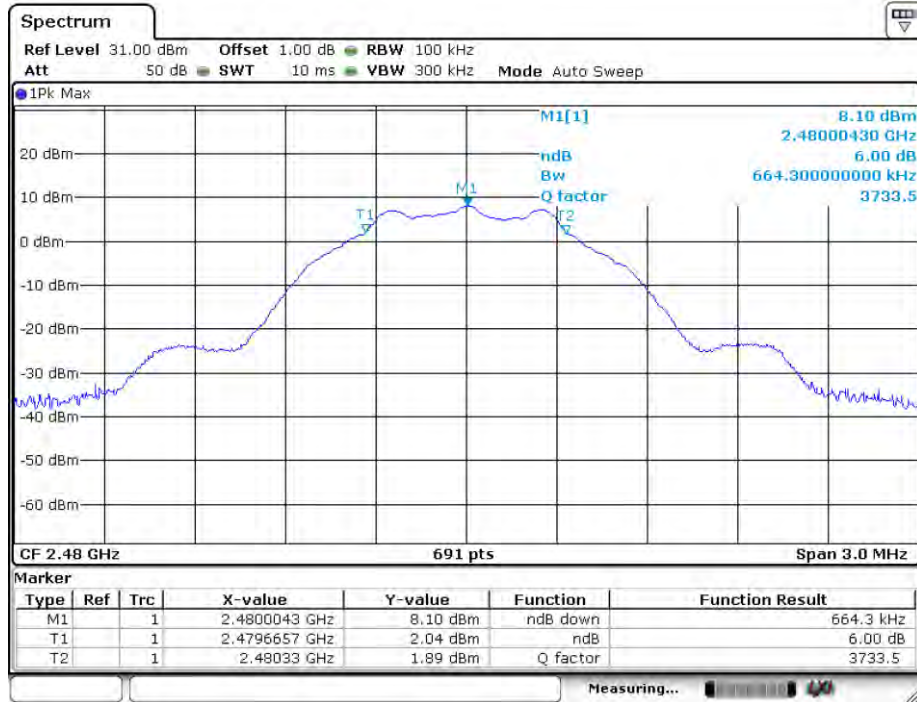
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4.5.2.3 GFSK 1M_Highest Channel



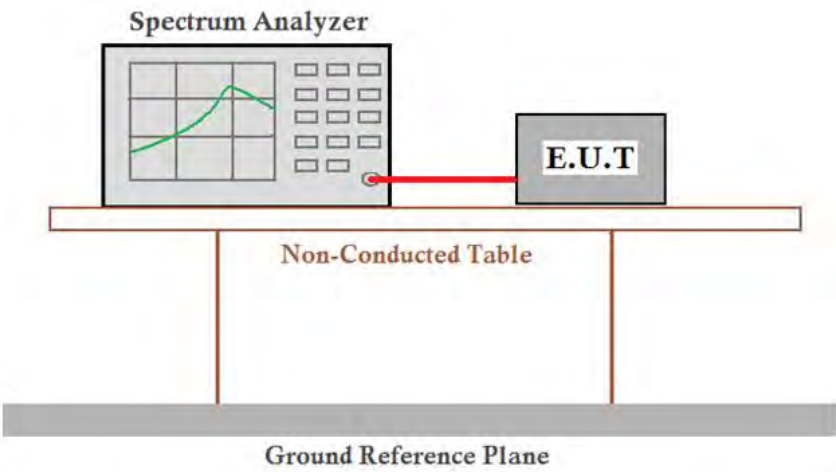
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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

4.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_1M	Lowest	-7.43	≤8.00	Pass
	Middle	-6.79	≤8.00	Pass
	Highest	-6.79	≤8.00	Pass

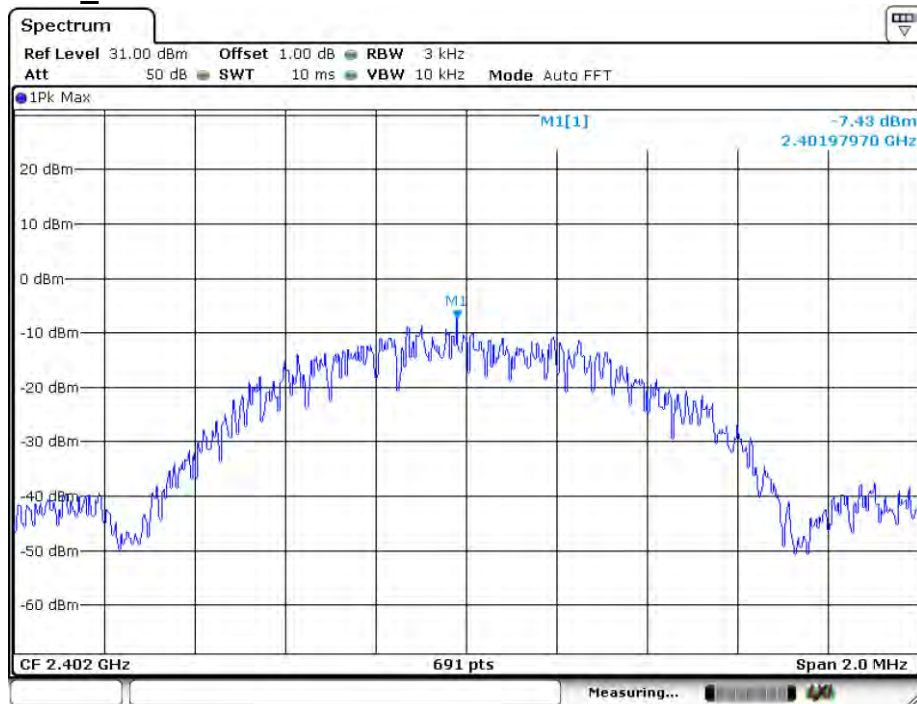


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4.6.2 Test Plots

4.6.2.1 GFSK 1M_Lowest Channel



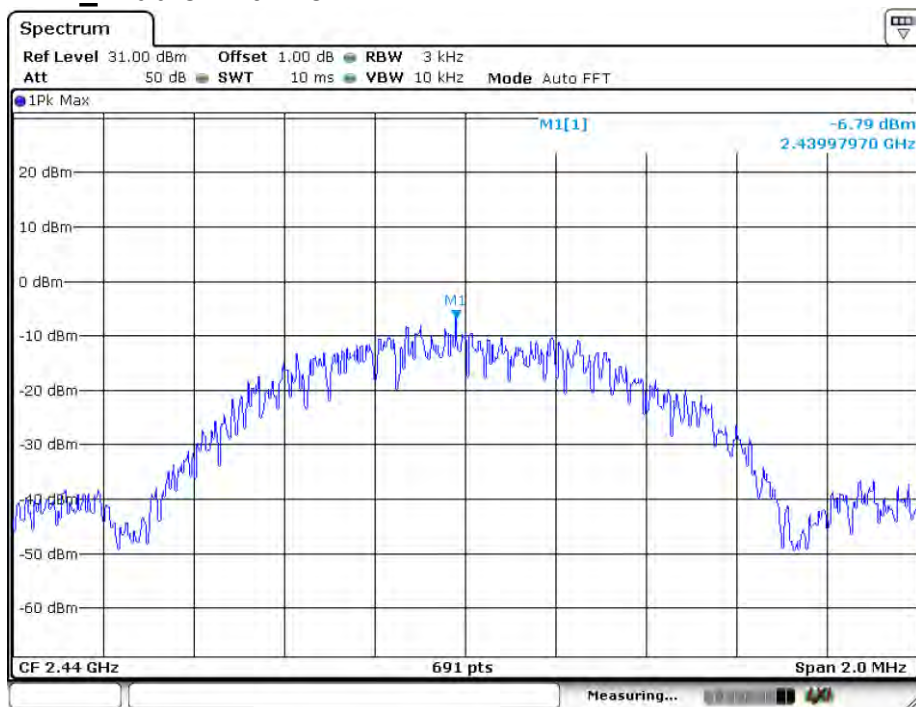
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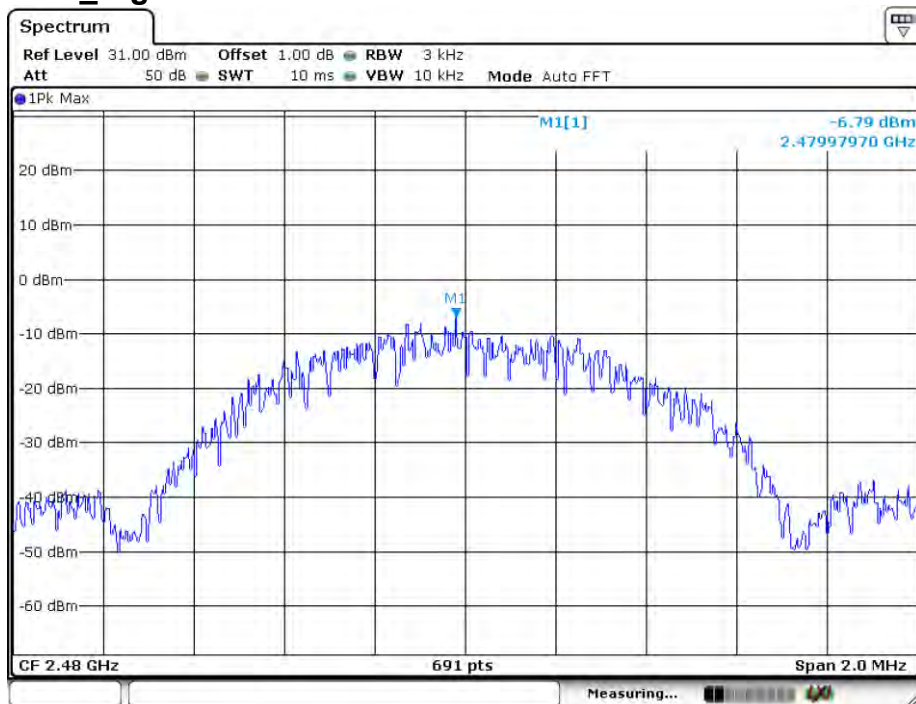
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4.6.2.2 GFSK 1M_Middle Channel



Date: 24.DEC.2020 15:22:01

4.6.2.3 GFSK 1M_Highest Channel



Date: 24.DEC.2020 15:22:13



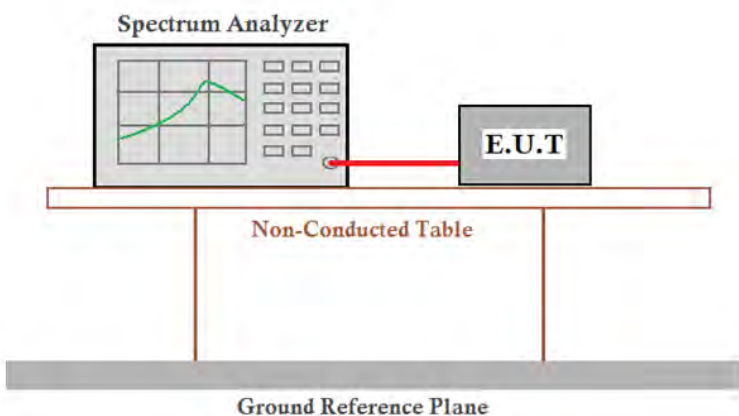
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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

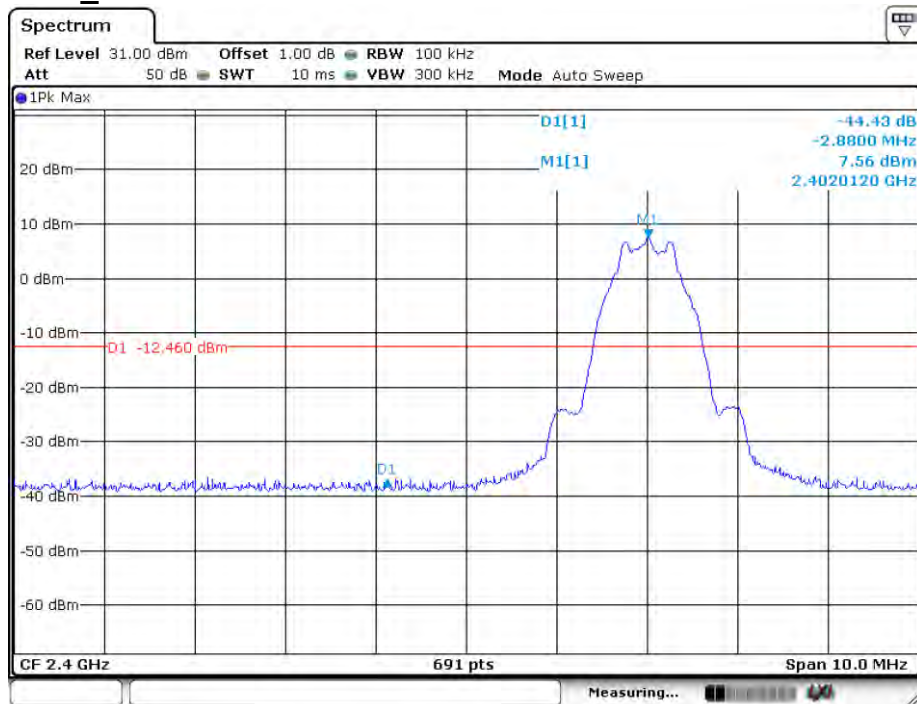


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4.7.1 Test Plots

4.7.1.1 GFSK 1M_Lowest Channel



Date: 24 DEC. 2020 15:25:49



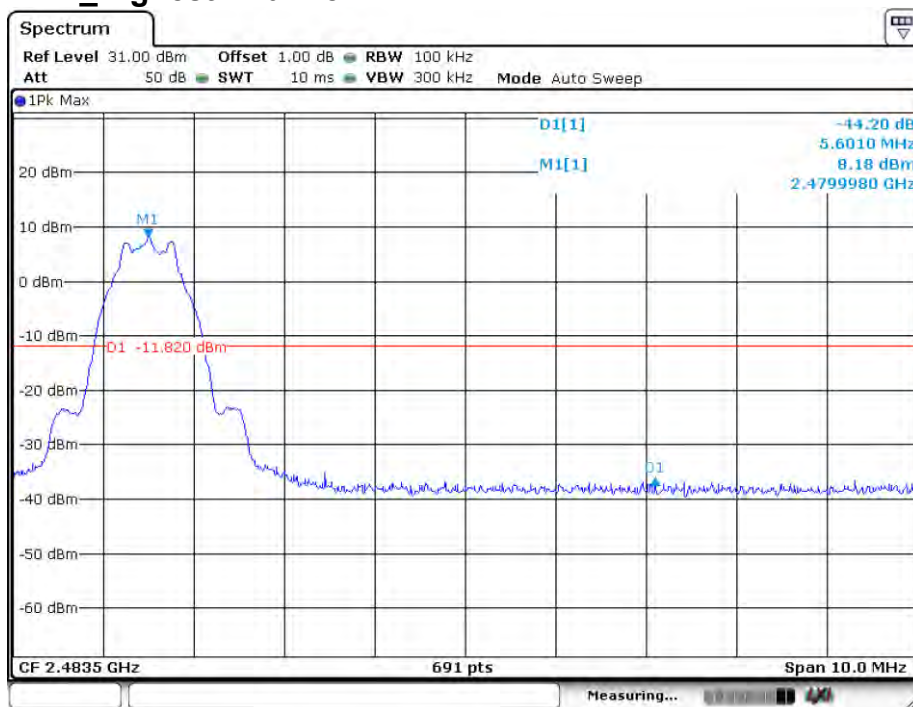
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4.7.1.2 GFSK 1M_Highest Channel



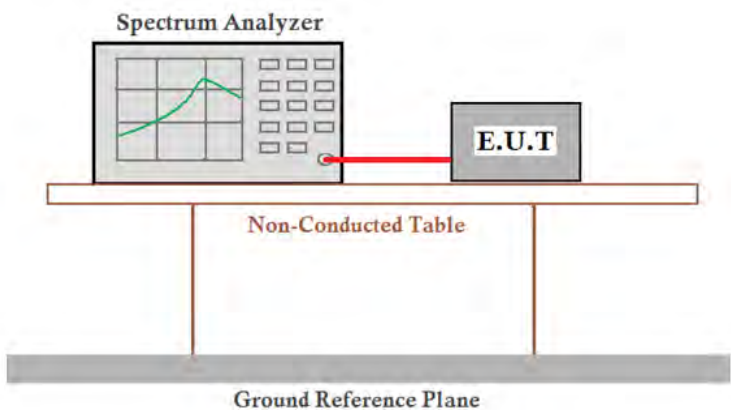
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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

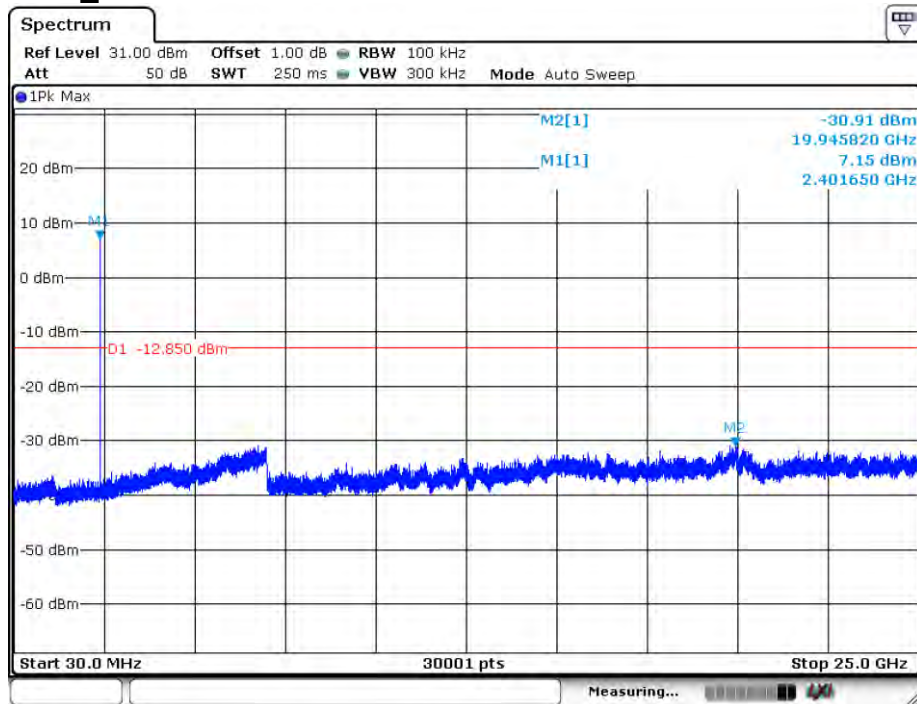


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4.8.1 Test Plots

4.8.1.1 GFSK 1M_Lowest Channel



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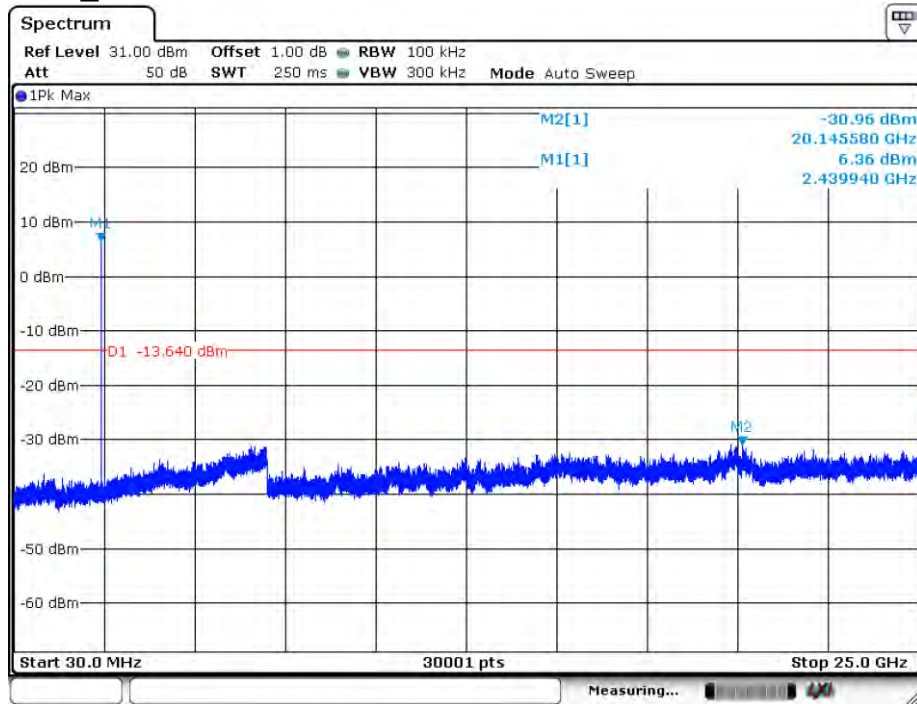
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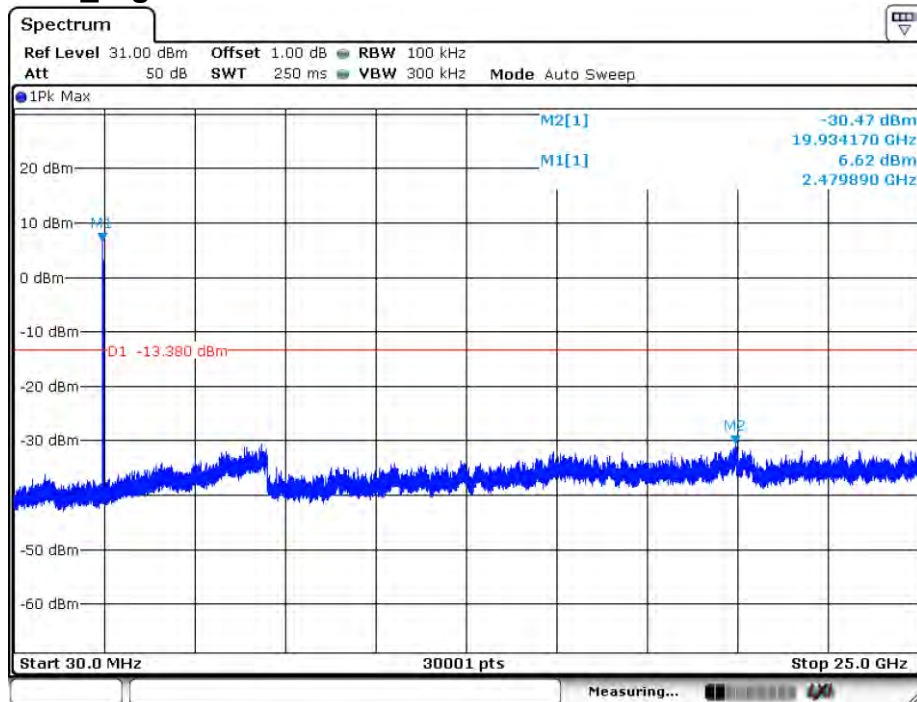
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4.8.1.2 GFSK 1M_Middle Channel



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4.8.1.3 GFSK 1M_Highest Channel



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Report No.: AR/2020/C000603-01

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Remark:

Scan from 9kHz to 25GHz, the disturbance between 9kHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100kHz	30kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz(Duty Cycle≥0.98) ≥1/T(Duty Cycle <0.98)	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				



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Test Setup:

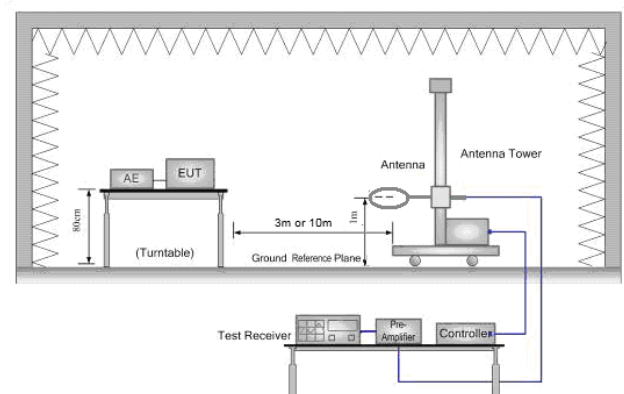


Figure 1. Below 30MHz

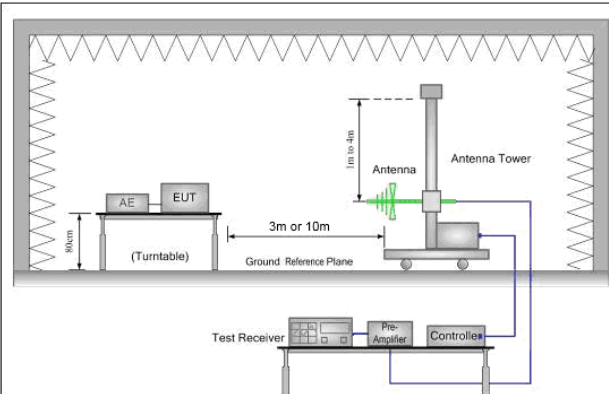


Figure 2. 30MHz to 1GHz

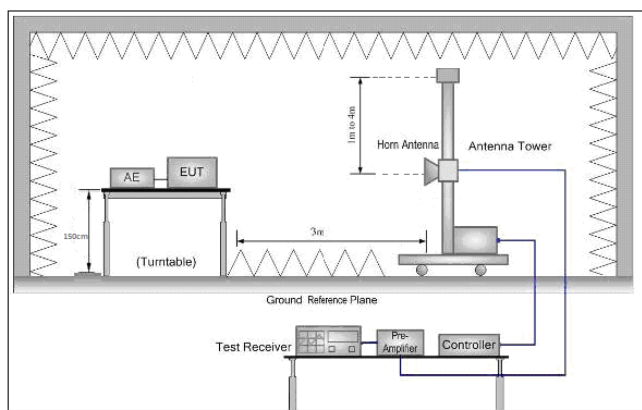


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Use the following spectrum analyzer settings:
 - Span shall wide enough to fully capture the emission being measured;
 - Set RBW=100 kHz for $f < 1$ GHz, RBW=1MHz for $f > 1$ GHz ;
VBW $\geq$ RBW; Sweep = auto;
Detector function = peak; Trace = max hold for peak
 - For average measurement: use duty cycle correction factor method per 15.35(c).



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	Duty cycle = On time/100 milliseconds On time = $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$ Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + $20 * \log(\text{Duty cycle})$ f. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. h. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. i. Test the EUT in the lowest channel, the middle channel, the Highest channel. j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. k. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

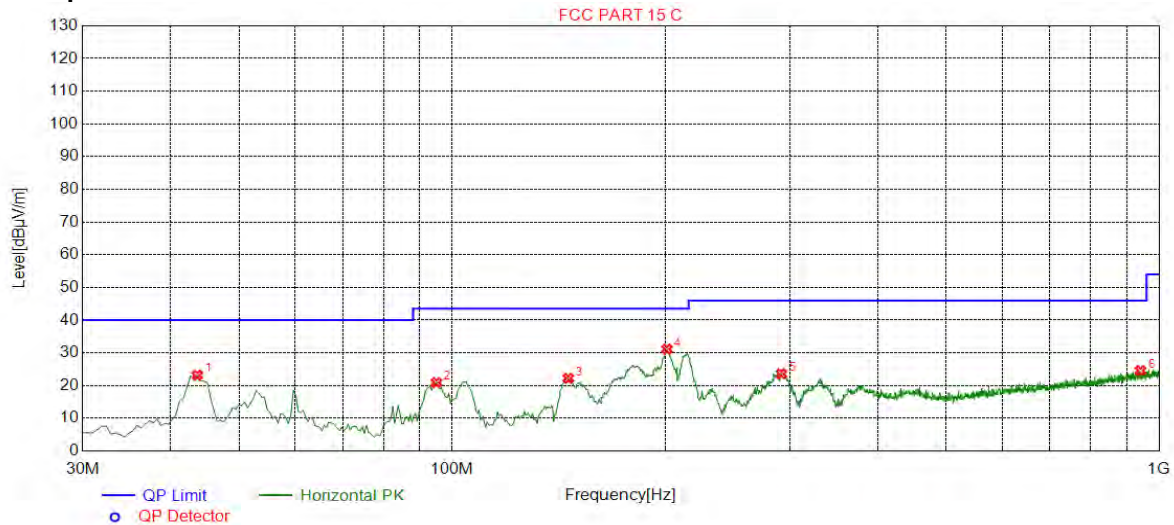


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4.9.1 Radiated Emission below 1GHz 4.9.1.1 Charge + Transmitting

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.5868	23.19	40.00	16.81	156	162	Horizontal
2	95.0225	20.95	43.50	22.55	133	250	Horizontal
3	145.9730	22.24	43.50	21.26	230	200	Horizontal
4	201.2906	31.15	43.50	12.35	157	337	Horizontal
5	292.0310	23.67	46.00	22.33	123	42	Horizontal
6	941.2856	24.57	46.00	21.43	117	25	Horizontal

Final Data List

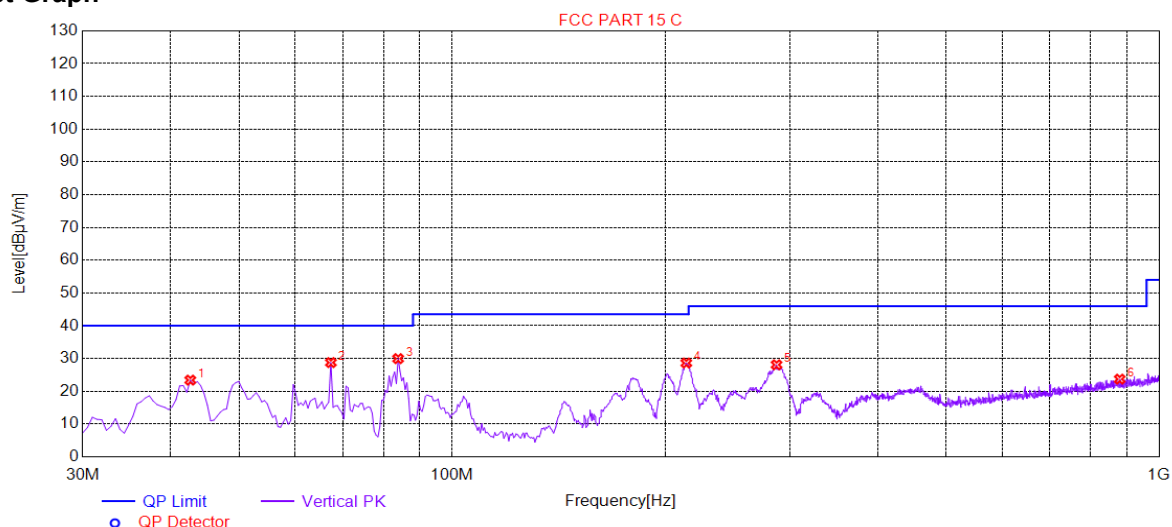


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Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.6163	23.42	40.00	16.58	165	186	Vertical
2	67.3637	28.78	40.00	11.22	294	59	Vertical
3	83.8619	29.98	40.00	10.02	184	119	Vertical
4	214.3922	28.64	43.50	14.86	299	294	Vertical
5	287.6638	28.11	46.00	17.89	259	344	Vertical
6	879.6598	23.72	46.00	22.28	240	253	Vertical

Final Data List

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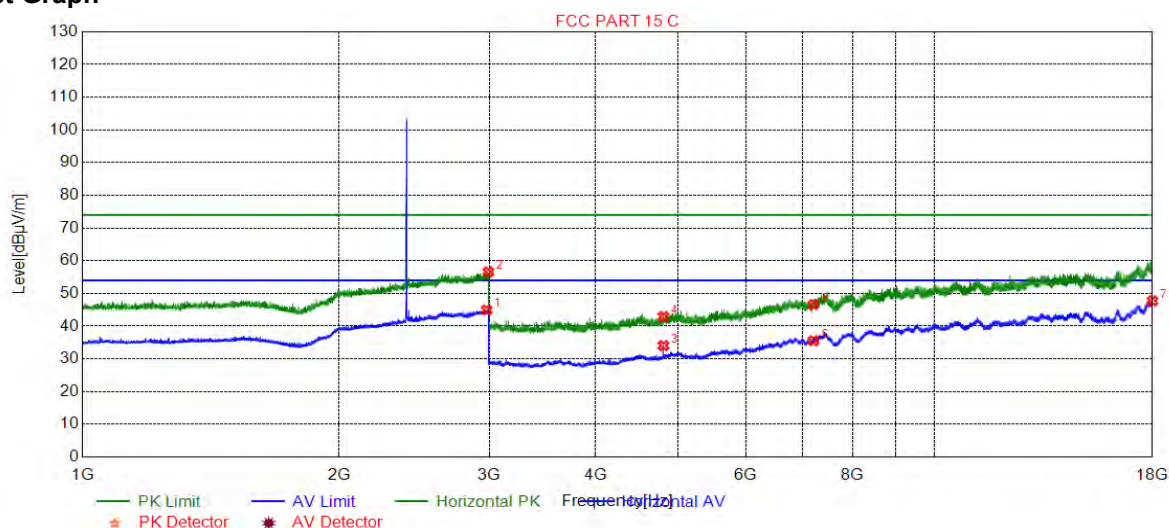
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4.9.2 Transmitter Emission above 1GHz

4.9.2.1 BLE_1M_Channel 0

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2979.995	44.99	54.00	9.01	214	180	Horizontal
2	2993.498	56.61	74.00	17.39	136	315	Horizontal
3	4804.000	34.05	54.00	19.95	244	210	Horizontal
4	4804.000	42.95	74.00	31.05	164	38	Horizontal
5	7206.000	46.62	74.00	27.38	132	227	Horizontal
6	7206.000	35.57	54.00	18.43	202	210	Horizontal
7	17999.25	47.73	54.00	6.27	169	175	Horizontal

Final Data List

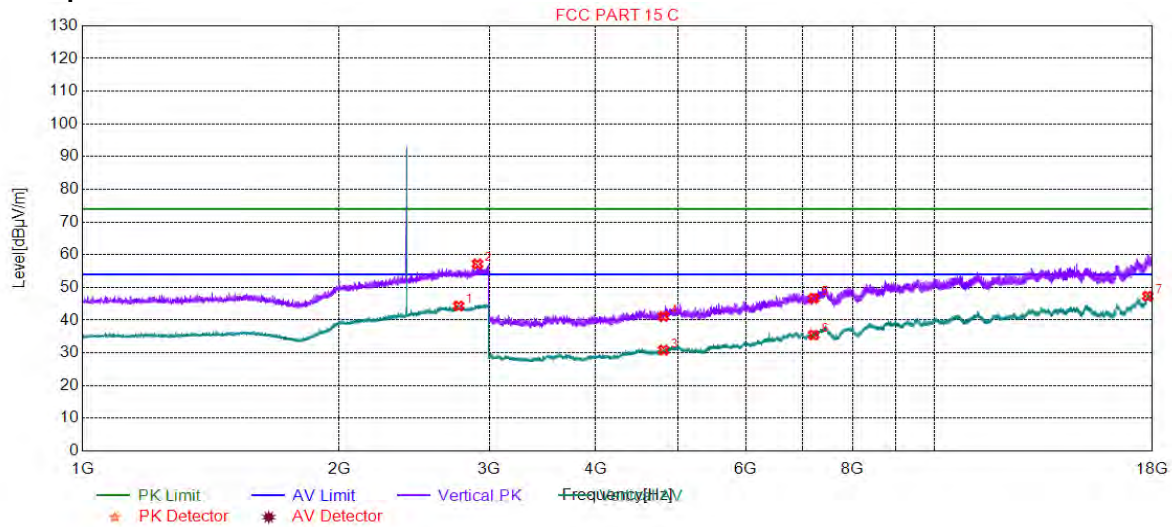


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4.9.2.2 BLE_1M_Channel 0

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2761.940	44.36	54.00	9.64	285	192	Vertical
2	2905.976	57.17	74.00	16.83	173	250	Vertical
3	4804.000	30.86	54.00	23.14	151	151	Vertical
4	4804.000	41.15	74.00	32.85	194	185	Vertical
5	7206.000	46.68	74.00	27.32	178	323	Vertical
6	7206.000	35.47	54.00	18.53	293	323	Vertical
7	17766.73	47.36	54.00	6.64	182	48	Vertical

Final Data List

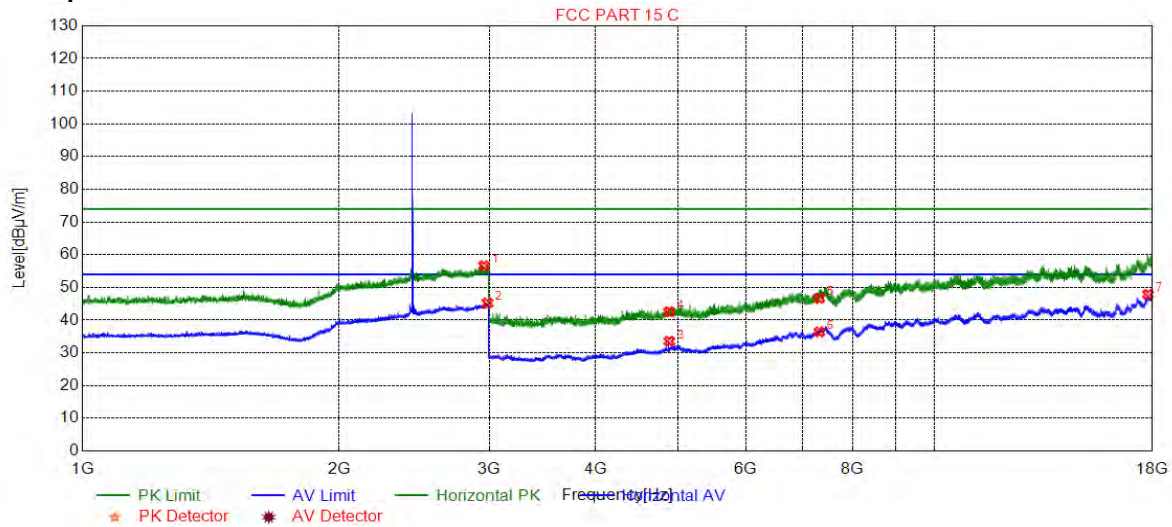


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4.9.2.3 BLE_1M_Channel 19

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2956.989	56.64	74.00	17.36	209	34	Horizontal
2	2986.496	45.24	54.00	8.76	212	107	Horizontal
3	4880.000	33.57	54.00	20.43	241	244	Horizontal
4	4880.000	42.60	74.00	31.40	183	346	Horizontal
5	7320.000	46.67	74.00	27.33	233	141	Horizontal
6	7320.000	36.43	54.00	17.57	114	210	Horizontal
7	17783.98	47.90	54.00	6.10	193	261	Horizontal

Final Data List

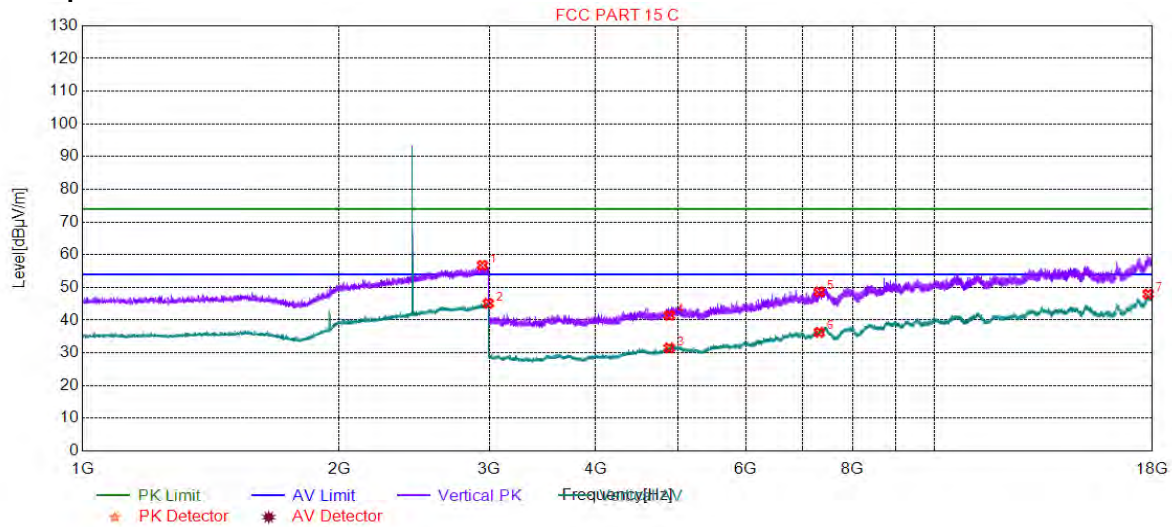
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4.9.2.4 BLE_1M_Channel 19

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2945.986	56.76	74.00	17.24	166	326	Vertical
2	2992.498	45.13	54.00	8.87	295	222	Vertical
3	4880.000	31.50	54.00	22.50	162	261	Vertical
4	4880.000	41.45	74.00	32.55	203	175	Vertical
5	7320.000	48.67	74.00	25.33	260	106	Vertical
6	7320.000	36.28	54.00	17.72	262	14	Vertical
7	17790.73	47.98	54.00	6.02	268	54	Vertical

Final Data List

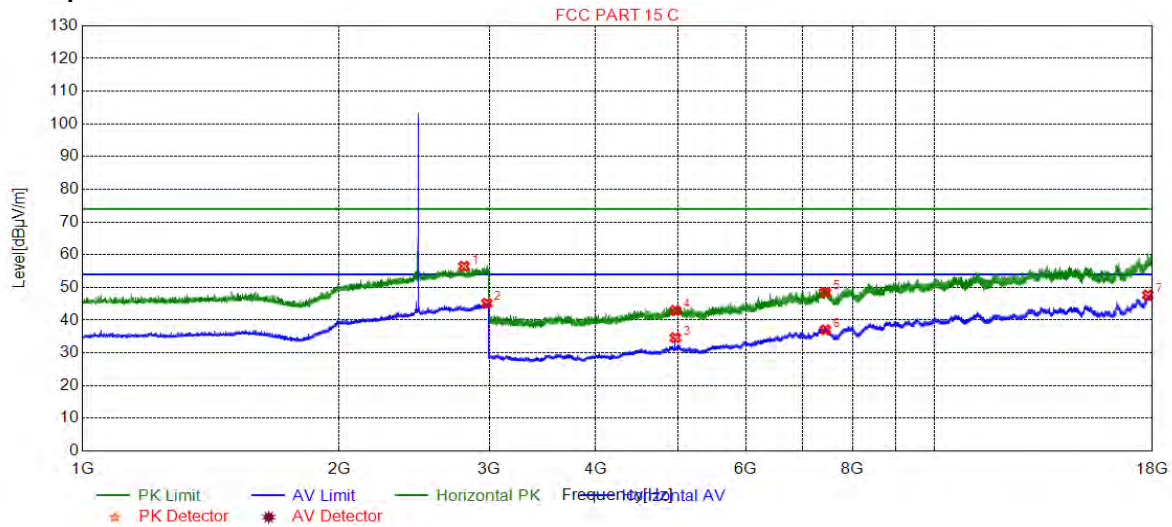


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4.9.2.5 BLE_1M_Channel 39

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2802.450	56.47	74.00	17.53	245	51	Horizontal
2	2980.995	45.19	54.00	8.81	104	346	Horizontal
3	4960.000	34.64	54.00	19.36	241	224	Horizontal
4	4960.000	42.97	74.00	31.03	167	224	Horizontal
5	7440.000	48.50	74.00	25.50	193	258	Horizontal
6	7440.000	37.04	54.00	16.96	204	1	Horizontal
7	17771.98	47.68	54.00	6.32	193	241	Horizontal

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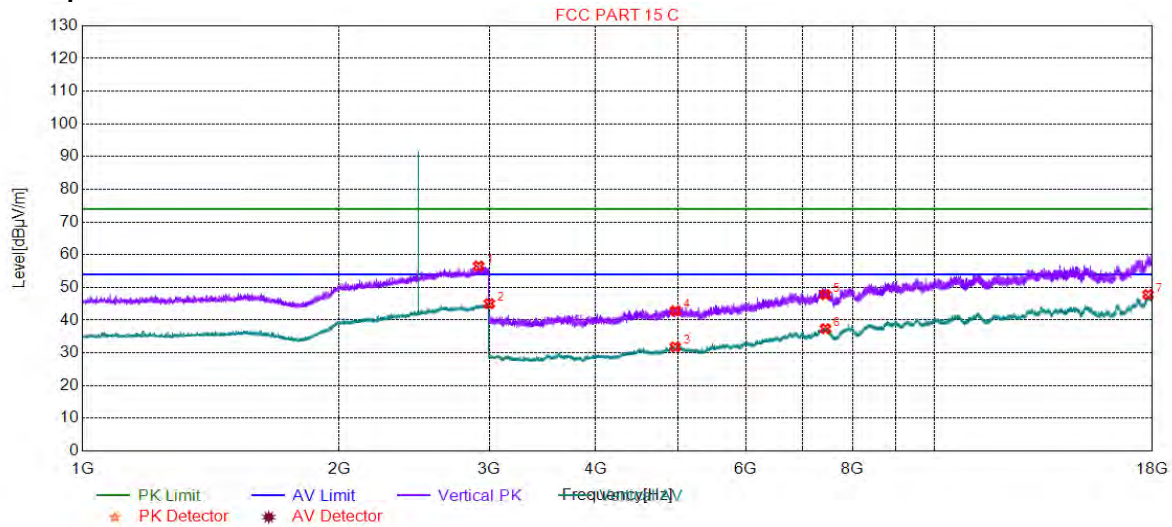
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4.9.2.6 BLE_1M_Channel 39

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2914.978	56.56	74.00	17.44	290	330	Vertical
2	3000.000	45.06	54.00	8.94	199	161	Vertical
3	4960.000	31.83	54.00	22.17	265	31	Vertical
4	4960.000	42.84	74.00	31.16	251	31	Vertical
5	7440.000	47.79	74.00	26.21	297	83	Vertical
6	7440.000	37.39	54.00	16.61	210	134	Vertical
7	17784.73	47.81	54.00	6.19	177	151	Vertical

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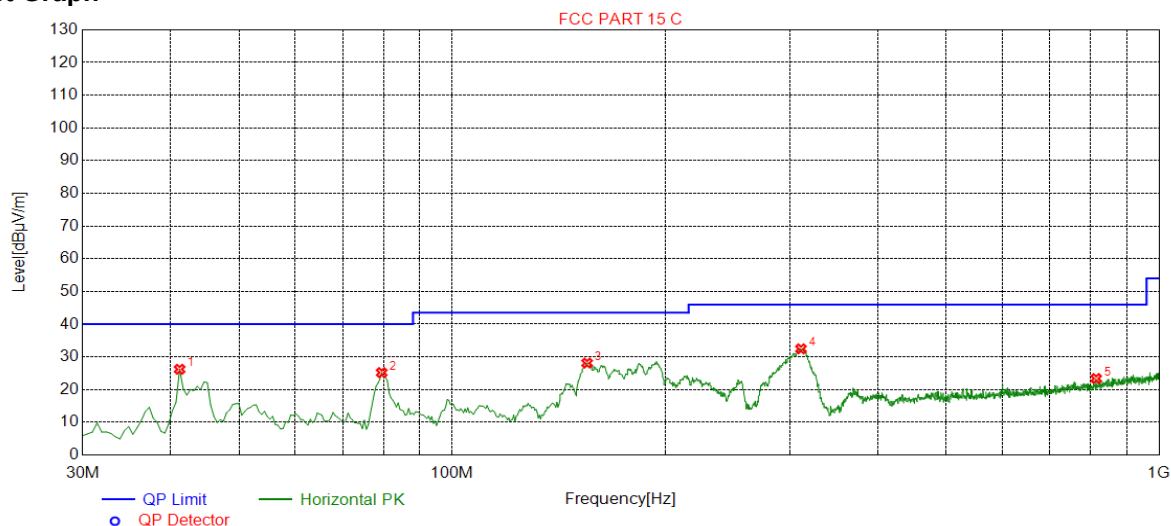
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Test on the worst case:

4.9.3 Radiated Emission below 1GHz

4.9.3.1 Charge + Transmitting

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.1606	26.22	40.00	13.78	153	31	Horizontal
2	79.4947	25.20	40.00	14.80	182	298	Horizontal
3	155.1926	28.11	43.50	15.39	246	217	Horizontal
4	311.4407	32.47	46.00	13.53	159	75	Horizontal
5	814.6373	23.39	46.00	22.61	161	65	Horizontal

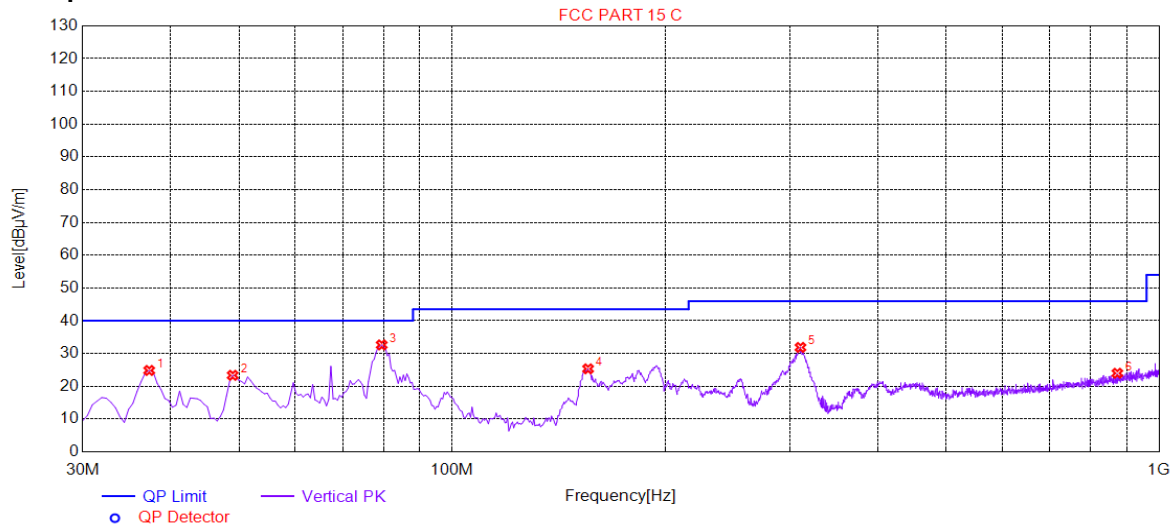
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Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.2786	24.85	40.00	15.15	212	339	Vertical
2	48.9245	23.36	40.00	16.64	290	317	Vertical
3	79.4947	32.64	40.00	7.36	268	243	Vertical
4	155.6778	25.34	43.50	18.16	262	199	Vertical
5	310.9555	31.88	46.00	14.12	219	348	Vertical
6	872.8664	24.00	46.00	22.00	246	16	Vertical

Final Data List



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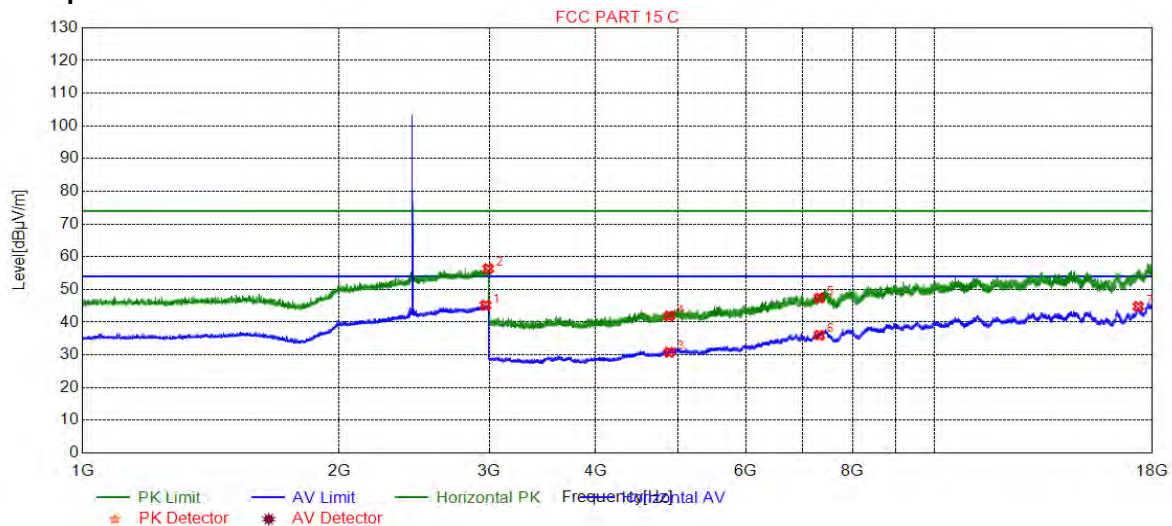
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4.9.4 Transmitter Emission above 1GHz

4.9.4.1 BLE_1M_Channel 19

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2970.992	45.18	54.00	8.82	249	117	Horizontal
2	2991.497	56.35	74.00	17.65	105	148	Horizontal
3	4880.000	30.78	54.00	23.22	152	134	Horizontal
4	4880.000	41.90	74.00	32.10	207	221	Horizontal
5	7320.000	47.39	74.00	26.61	132	221	Horizontal
6	7320.000	36.03	54.00	17.97	144	256	Horizontal
7	17324.21	44.80	54.00	9.20	145	342	Horizontal

Final Data List

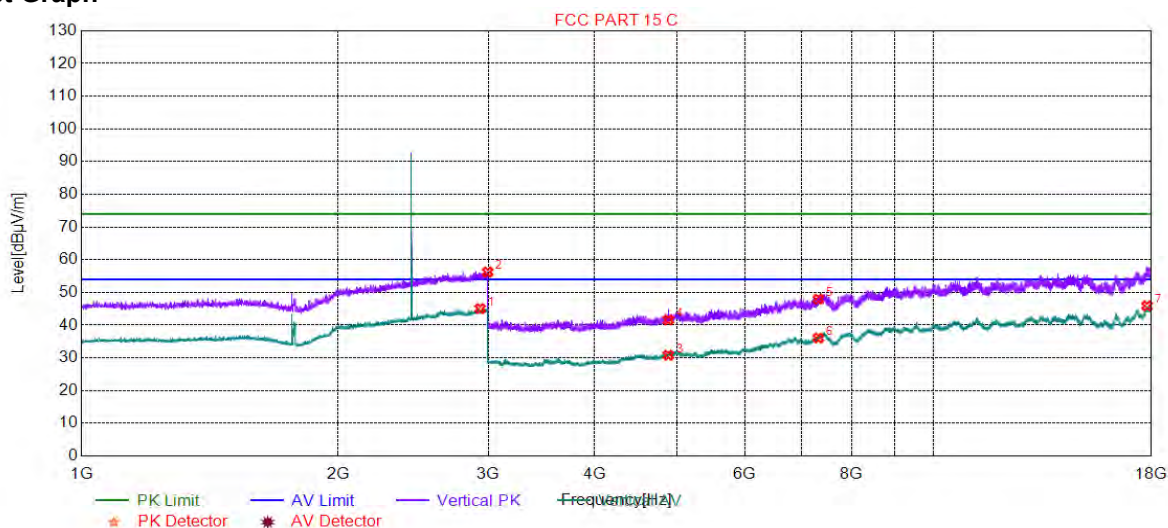


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4.9.4.2 BLE_1M_Channel 19

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2934.983	45.09	54.00	8.91	267	9	Vertical
2	2995.999	56.27	74.00	17.73	205	0	Vertical
3	4880.000	30.83	54.00	23.17	284	346	Vertical
4	4880.000	41.62	74.00	32.38	227	346	Vertical
5	7320.000	47.98	74.00	26.02	172	48	Vertical
6	7320.000	36.09	54.00	17.91	238	226	Vertical
7	17784.73	45.91	54.00	8.09	238	48	Vertical

Final Data List

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

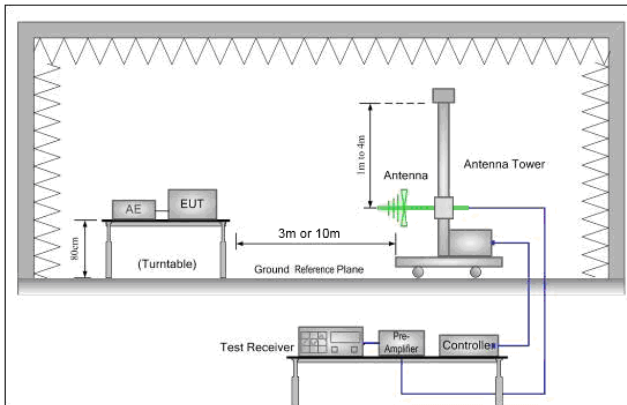


Figure 1. 30MHz to 1GHz

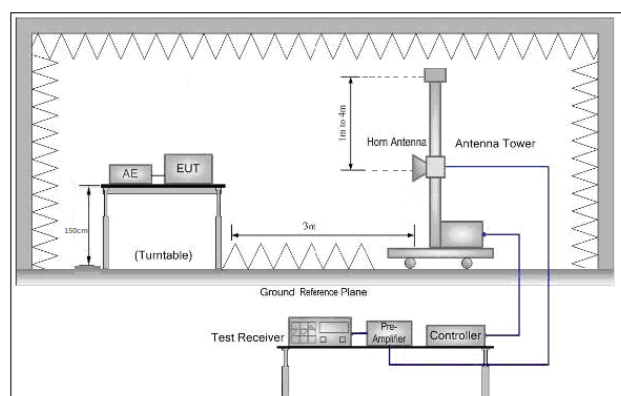


Figure 2. Above 1 GHz

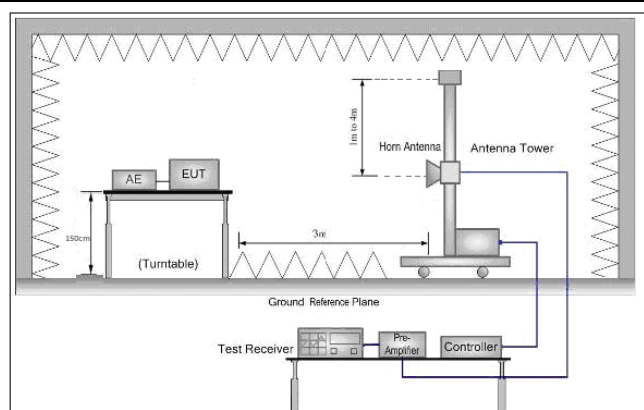


Figure 3. Above 1 GHz



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Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



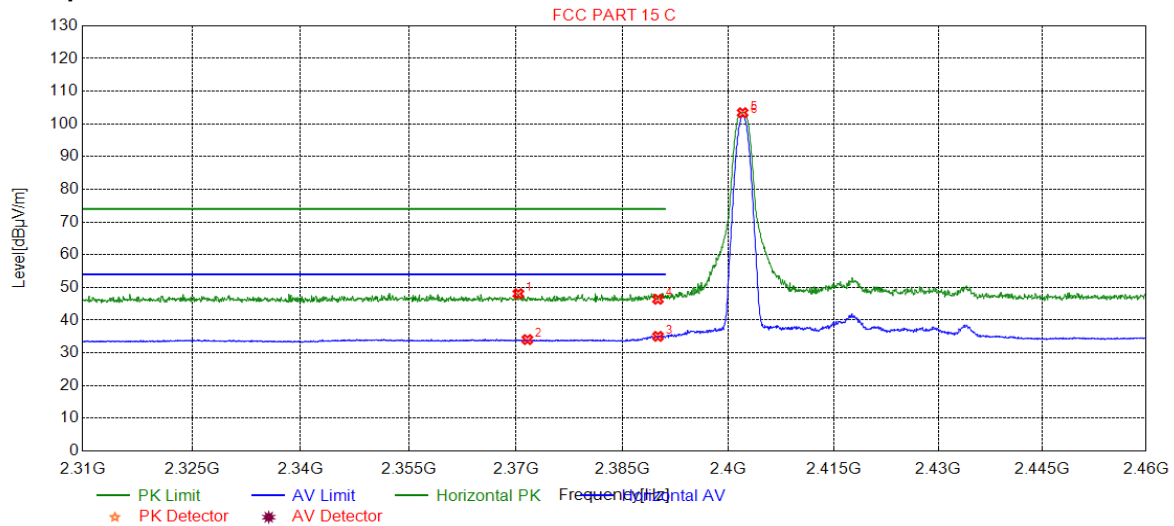
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4.10.1 Test Plots

4.10.1.1 BLE_1M_Channel 0

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.330	48.09	74.00	25.91	152	285	Horizontal
2	2371.605	34.07	54.00	19.93	195	153	Horizontal
3	2390.000	35.06	54.00	18.94	233	210	Horizontal
4	2390.000	46.41	74.00	27.59	178	107	Horizontal
5	2402.000	103.44	0.00	-103.44	210	214	Horizontal
6	2402.000	102.55	0.00	-102.55	111	210	Horizontal

Final Data List



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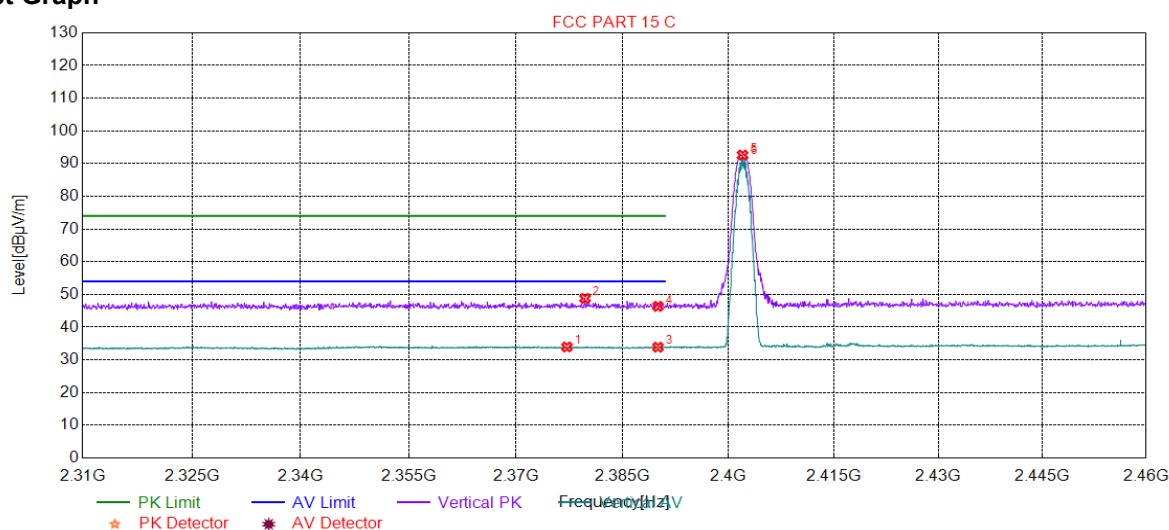
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4.10.1.2 BLE_1M_Channel 0

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.158	33.96	54.00	20.04	215	279	Vertical
2	2379.709	48.81	74.00	25.19	270	188	Vertical
3	2390.000	33.89	54.00	20.11	268	312	Vertical
4	2390.000	46.37	74.00	27.63	156	267	Vertical
5	2402.000	92.63	0.00	-92.63	252	222	Vertical
6	2402.000	91.96	0.00	-91.96	243	218	Vertical

Final Data List

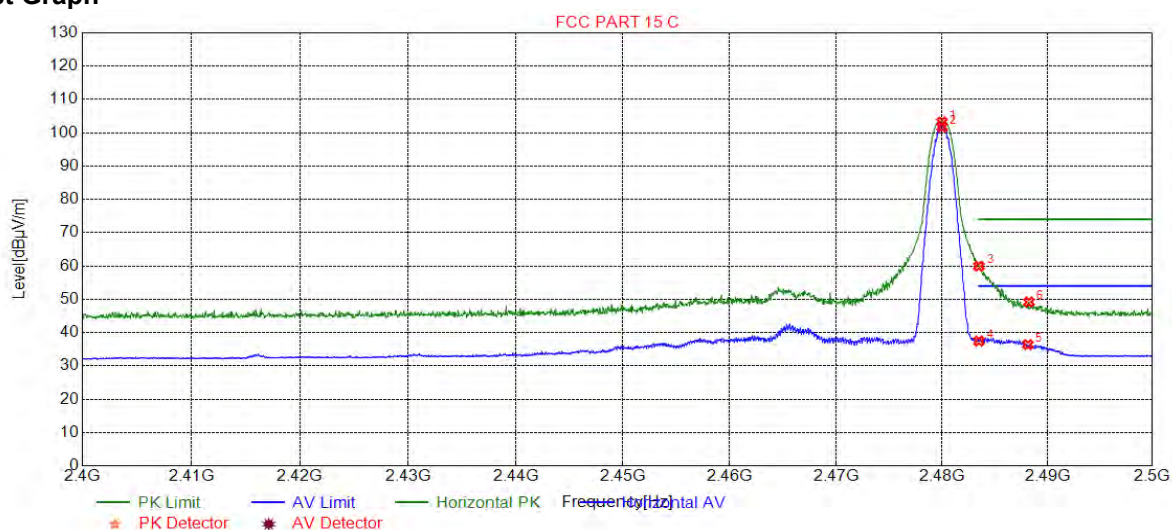


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4.10.1.3 BLE_1M_Channel 39

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	103.25	0.00	-103.25	130	228	Horizontal
2	2480.000	101.77	0.00	-101.77	124	209	Horizontal
3	2483.500	59.95	74.00	14.05	118	228	Horizontal
4	2483.500	37.49	54.00	16.51	143	213	Horizontal
5	2488.144	36.41	54.00	17.59	237	228	Horizontal
6	2488.244	49.22	74.00	24.78	222	228	Horizontal

Final Data List



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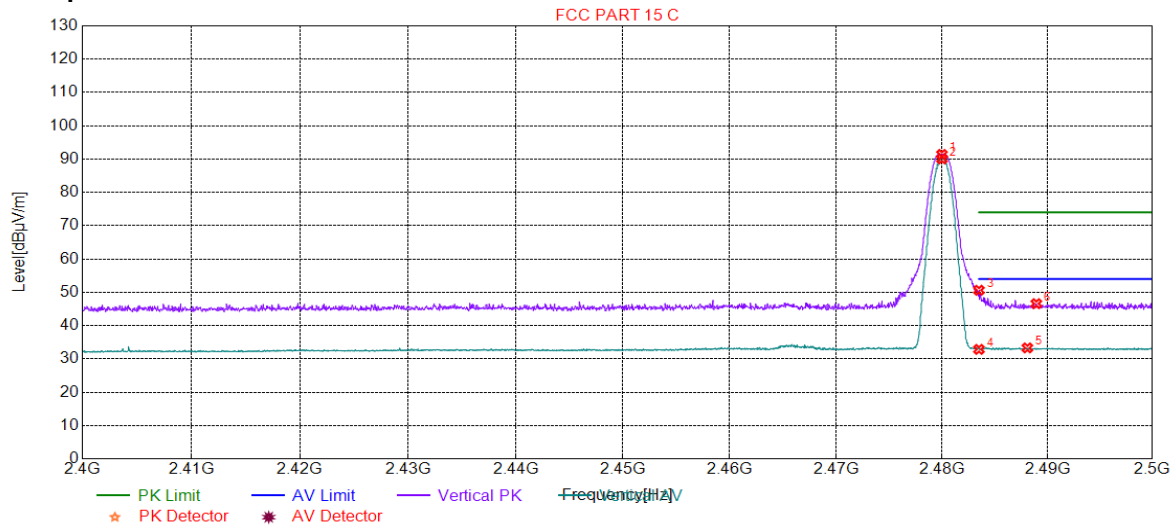
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4.10.1.4 BLE_1M_Channel 39

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	91.40	0.00	-91.40	186	219	Vertical
2	2480.000	90.07	0.00	-90.07	236	212	Vertical
3	2483.500	50.64	74.00	23.36	258	295	Vertical
4	2483.500	32.89	54.00	21.11	251	14	Vertical
5	2488.094	33.33	54.00	20.67	265	322	Vertical
6	2488.944	46.61	74.00	27.39	156	158	Vertical

Final Data List



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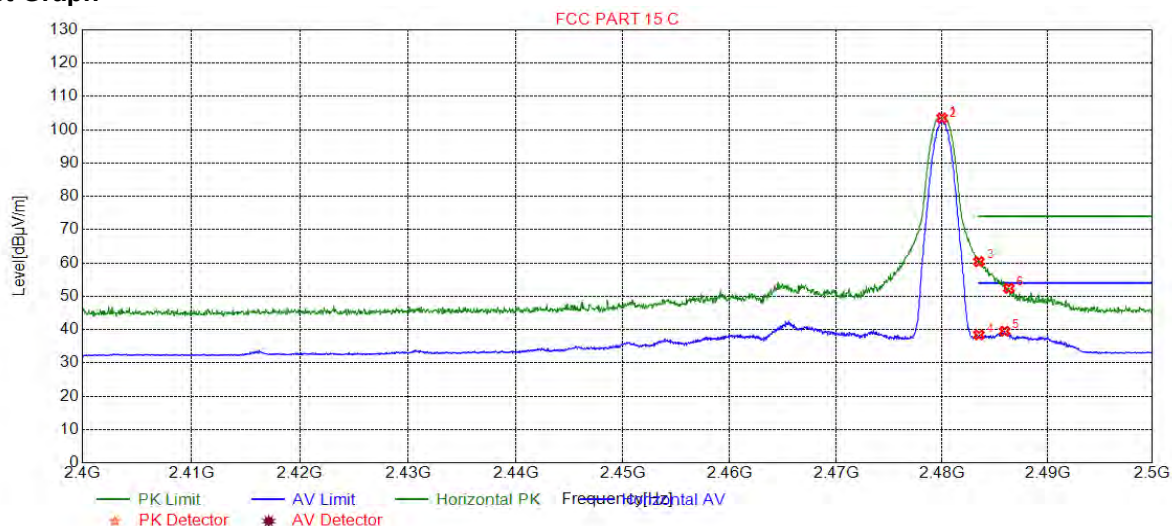
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Test on the worst case:

4.10.1.1 BLE_1M_Channel 39

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	103.50	0.00	-103.50	105	234	Horizontal
2	2480.000	102.98	0.00	-102.98	170	234	Horizontal
3	2483.500	60.43	74.00	13.57	162	234	Horizontal
4	2483.500	38.43	54.00	15.57	236	234	Horizontal
5	2485.943	39.55	54.00	14.45	228	215	Horizontal
6	2486.343	52.39	74.00	21.61	132	219	Horizontal

Final Data List

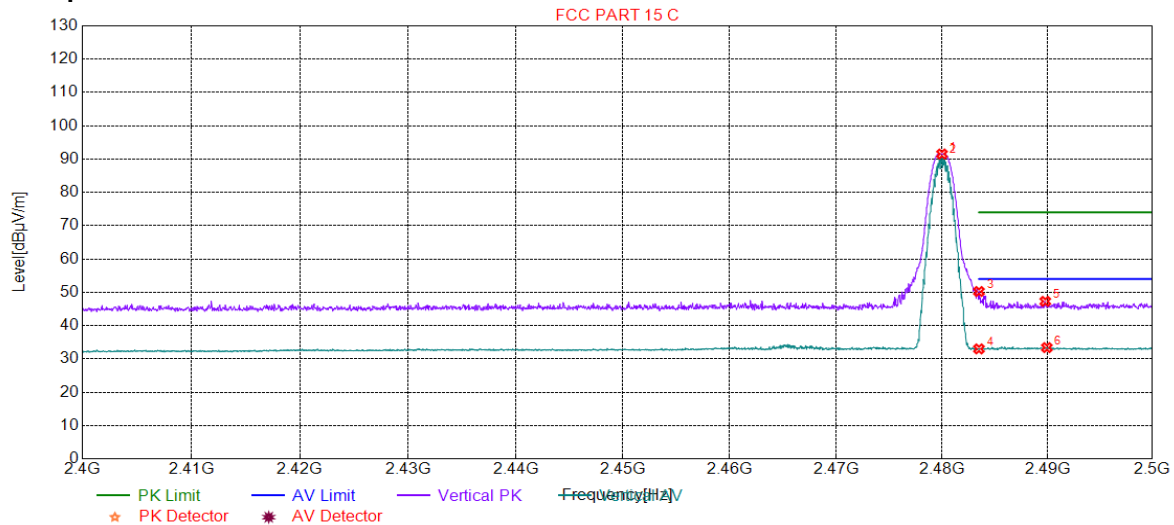


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4.10.1.2 BLE_1M_Channel 39

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	91.53	0.00	-91.53	265	253	Vertical
2	2480.000	91.00	0.00	-91.00	248	253	Vertical
3	2483.500	50.27	74.00	23.73	169	257	Vertical
4	2483.500	33.03	54.00	20.97	299	253	Vertical
5	2489.794	47.31	74.00	26.69	222	168	Vertical
6	2489.945	33.42	54.00	20.58	226	253	Vertical

Final Data List

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

All Modes have been tested, but only the worst case data displayed in this report.



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5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Temperature test	±1°C
5	Humidity test	±3%
6	DC and low frequency voltages	±0.5%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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6 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologie Inc	66311B	W009-09	2020/7/15	2021/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-05	2020-04-12	2021-04-11
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz~3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR



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7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for AR/2020/C0004.

The End



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