

Report No.: ZR/2021/1004104

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FCC TEST REPORT

Application No.: ZR/2021/10041

Applicant: Honor Device Co., Ltd.

Address of Applicant Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road,

Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's

Republic of China

Manufacturer: Honor Device Co., Ltd.

Address of Manufacturer Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road,

Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's

Republic of China

EUT Description: Wireless Earphone

Model No.: T0005 (for earphone), T0005C (for charging case)

Trade Mark: **HONOR**

FCC ID: 2AYGCT0005

47 CFR FCC Part 2, Subpart J Standards:

47 CFR Part 15, Subpart C

Date of Receipt: 2021/2/7

Date of Test: 2021/2/7 to 2021/2/22

Date of Issue: 2021/4/17

Test Result: PASS *

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

Authorized Signature:

Derele yang

Derek Yang Wireless Laboratory Manager



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Version 1

Revision Record						
Chapter	Date	Remark				
	2021/3/8		Original			
	2021/4/17	James Qin	1.Add test site Information 2.Update equipment list			
	Chapter	Chapter Date 2021/3/8	Chapter Date Modifier 2021/3/8			

Authorized for issue by:	
Prepared By	Dee.Zheng
	(Dee Zheng) / Engineer
Checked By	John Hong
	(Jim Huang) / Reviewer





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2 **Test Summary**

Test Item	Test Requirement	Test Method	Result	Test Lab*
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	PASS	В
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	PASS	А
DTS (6 dB) Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	PASS	А
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	PASS	А
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	PASS	А
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	PASS	А
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	PASS	В
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	PASS	В

Remark: 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. Test engineer: Dee Zheng, Swing Hu, Habit Zeng, Leah Chen, Ken Liu, Andy Yao





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General Information 3

3.1 Details of Client

Applicant:	Honor Device Co., Ltd.		
Address of Applicant	Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China		
Manufacturer:	Honor Device Co., Ltd.		
Address of Manufacturer	Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China		

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

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





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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.

Designation Number: CN1271.





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3.4 General Description of EUT

EUT Description:	Wireless Earphone		
Model No.:	T0005 (for earphone), T0005C (for charging case)		
Trade Mark:	HONOR		
Hardware Version:	PCB V8		
Software Version:	Otter-CT030+1.0.0.126		
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 V5.2 LE		
Modulation Type:	GFSK		
Number of Channel:	40		
Sample Type:	⊠ Portable Device,		
Antenna Type:	☐ External, ☑ Integrated		
Antenna Gain:	1.4dBi		

Remark: According to the client, the EUT doesn'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



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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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Test results and Measurement Data 4

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 1.4dBi.



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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:	Fraguenov rango (MUz)	Limit (d	BuV)	
	Frequency range (MHz)	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 log	arithm of the frequency.		
Test Procedure:	The mains terminal droom.	listurbance voltage test was	conducted in a shielded	
	· · · · · · · · · · · · · · · · · · ·			



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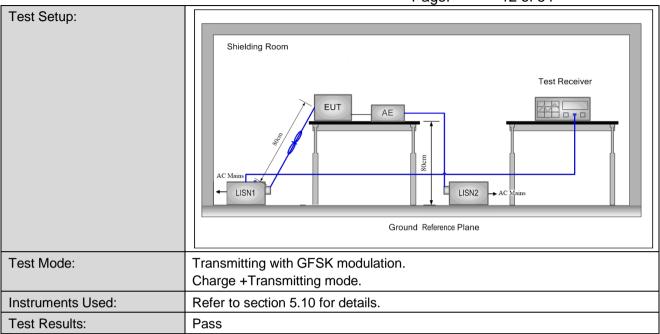
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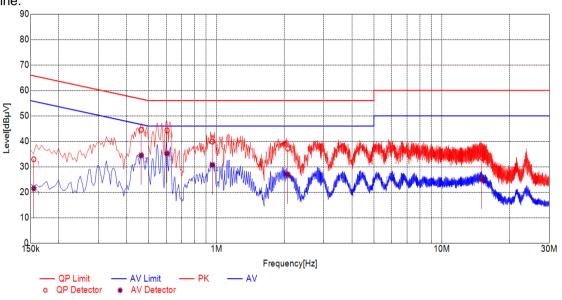
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Measurement Data

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	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	0.1550	10.10	32.96	65.73	32.77	21.45	55.73	34.28
2	0.4636	10.10	44.51	56.63	12.12	34.46	46.63	12.17
3	0.6047	10.10	44.25	56.00	11.75	35.23	46.00	10.77
4	0.9596	10.10	39.87	56.00	16.13	30.72	46.00	15.28
5	2.0744	10.10	37.13	56.00	18.87	26.97	46.00	19.03
6	15.0799	10.11	33.52	60.00	26.48	25.05	50.00	24.95



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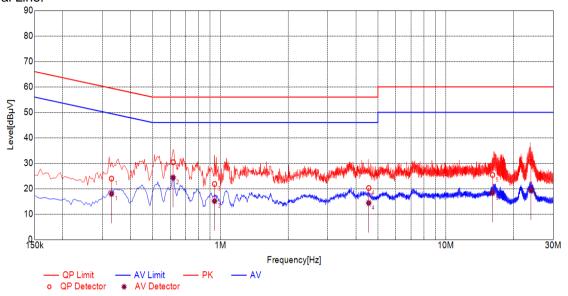
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Test Graph

Final	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	0.3290	10.10	23.97	59.48	35.51	17.99	49.48	31.49	
2	0.6174	10.10	30.40	56.00	25.60	24.37	46.00	21.63	
3	0.9428	10.10	21.85	56.00	34.15	15.15	46.00	30.85	
4	4.5519	10.10	20.27	56.00	35.73	14.38	46.00	31.62	
5	16.1157	10.11	25.40	60.00	34.60	18.31	50.00	31.69	
6	23.8561	10.11	30.61	60.00	29.39	19.35	50.00	30.65	

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	0.65





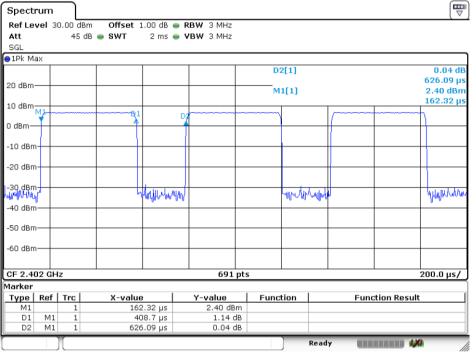
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4.3.2 **Test Plots**

4.3.2.1ANT1

4.3.2.1.1 BLE 1M



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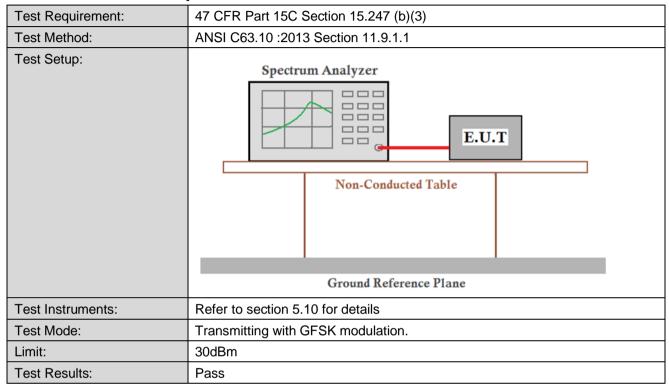




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4.4 Conducted Output Power







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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	6.75	30.00	Pass				
Middle	7.40	30.00	Pass				
Highest	7.54	30.00	Pass				

Test Plots 4.4.2

4.4.2.1GFSK 1M_Lowest Channel



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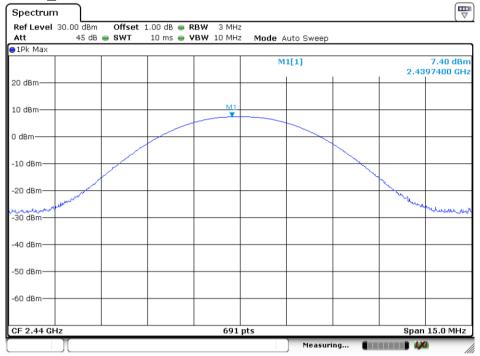
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4.4.2.2GFSK 1M Middle Channel



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4.4.2.3GFSK 1M_Highest Channel



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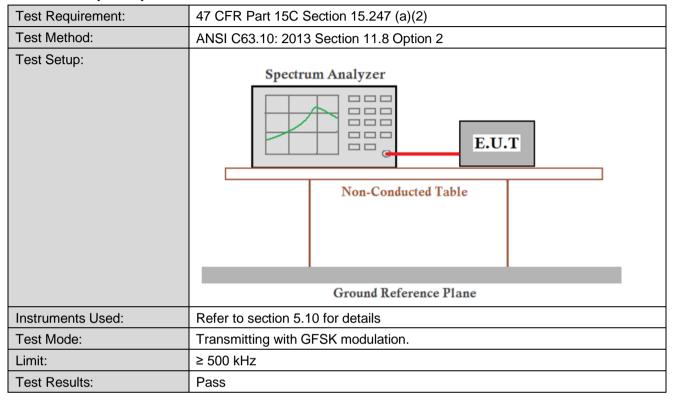
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4.5 DTS (6 dB) Bandwidth







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4.5.1 **Test Results**

Mode	Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	0.66	≥500	Pass
GFSK_1M	Middle	0.66	≥500	Pass
	Highest	0.67	≥500	Pass



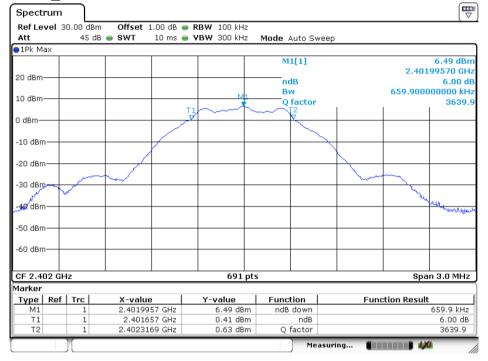


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4.5.2 **Test Plots**

4.5.2.1GFSK 1M Lowest Channel



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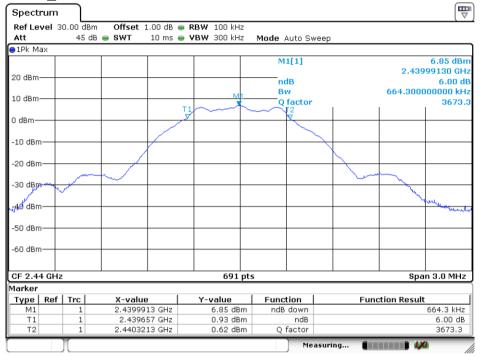




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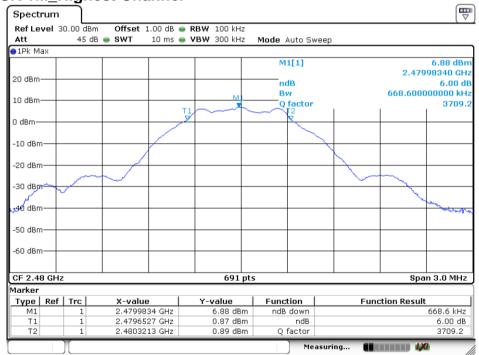
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4.5.2.2GFSK 1M Middle Channel



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4.5.2.3GFSK 1M_Highest Channel



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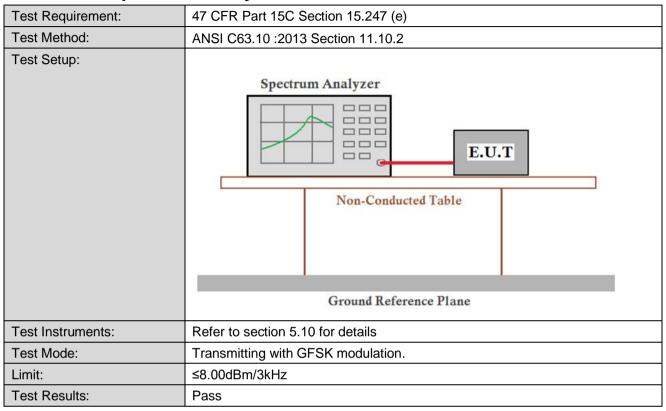
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4.6 Power Spectral Density



4.6.1 **Test Results**

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-8.36	≤8.00	Pass
GFSK_1M	Middle	-8.04	≤8.00	Pass
	Highest	-8.25	≤8.00	Pass



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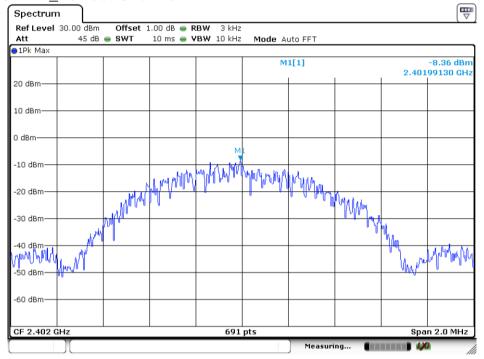


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4.6.2 **Test Plots**

4.6.2.1GFSK 1M Lowest Channel



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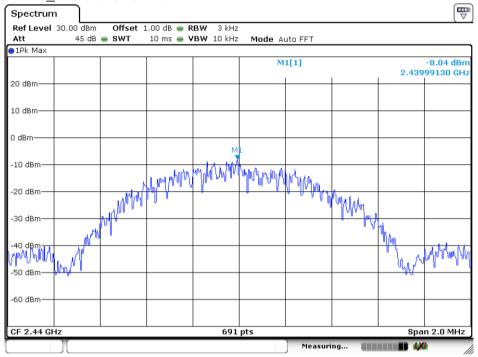




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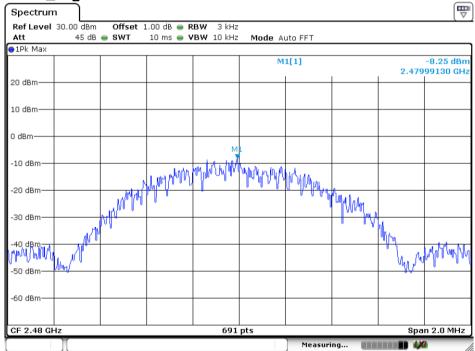
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4.6.2.2GFSK 1M Middle Channel



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4.6.2.3GFSK 1M_Highest Channel



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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:	Spectrum Analyzer E.U.T Non-Conducted Table			
	Ground Reference Plane			
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			



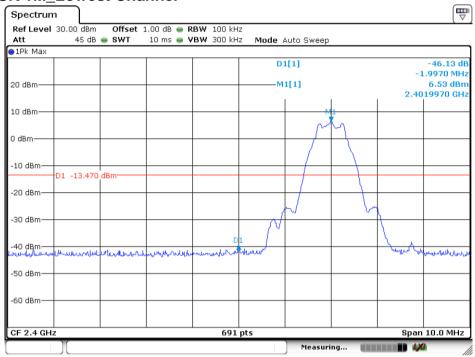


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Test Plots 4.7.1

4.7.1.1GFSK 1M_Lowest Channel



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4.7.1.2GFSK 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:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
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



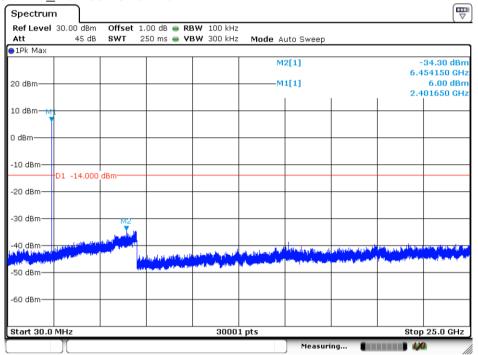


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Test Plots 4.8.1

4.8.1.1 GFSK 1M_Lowest Channel



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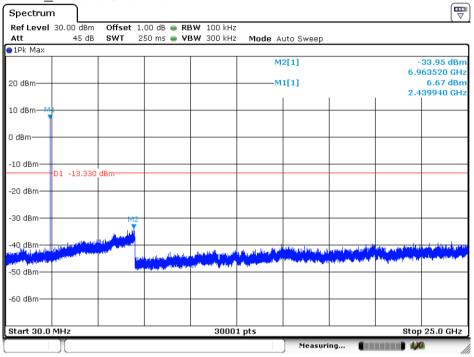




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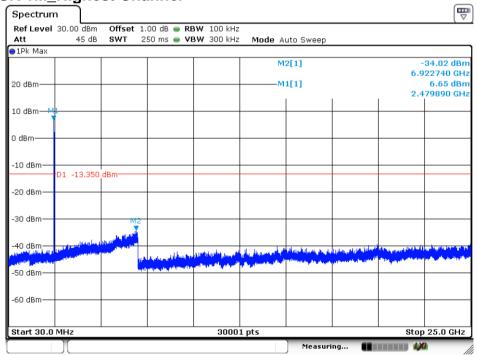
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4.8.1.2GFSK 1M Middle Channel



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4.8.1.3GFSK 1M_Highest Channel



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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	120kHz	300kHz	Quasi-peak	
	Above 1GHz	Peak	1MHz	3MHz	Peak	
	Above 1GHz	Peak	1MHz	10Hz	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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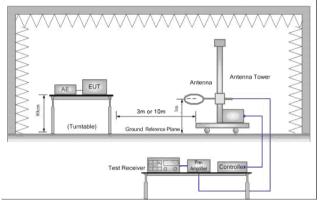
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Test Setup:



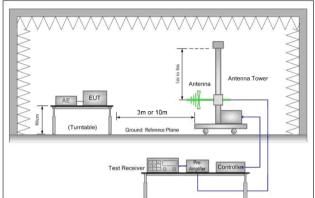


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

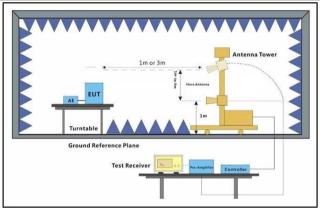


Figure 3. Above 1 GHz

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 camber. 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 camber. 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 (1) measured;
 - Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz; (2) VBW ≥ RBW; Sweep = auto;
 - Detector function = peak; Trace = max hold for peak
 - For average measurement: use duty cycle correction factor method per 15.35(c).

Duty cycle = On time/100 milliseconds



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	On time = N 1 *L 1 +N 2 *L 2 ++N n-1 *LN 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(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 6 for details
Test Results:	Pass
Remark:	The Emission Test data were reused from the report no:XZR/2021/1004104



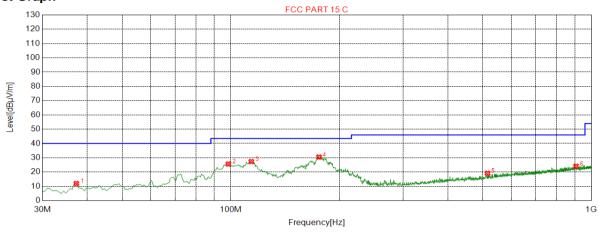


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4.9.1 **Radiated Emission below 1GHz Charge + Transmitting** 4.9.1.1

Test Graph



- QP Limit QP Detector - Horizontal PK

Suspected List

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	37.2786	11.96	-32.03	40.00	28.04	151	221	Horizontal			
2	98.4192	25.62	-31.96	43.50	17.88	165	103	Horizontal			
3	113.947	27.34	-32.31	43.50	16.16	140	236	Horizontal			
4	175.572	30.54	-33.22	43.50	12.96	100	215	Horizontal			
5	515.242	19.15	-22.30	46.00	26.85	187	22	Horizontal			
6	906.833	24.06	-15.13	46.00	21.94	223	181	Horizontal			

Final Data List

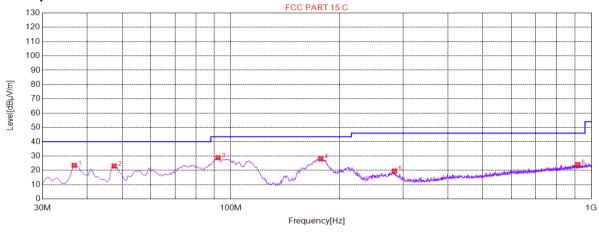




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Test Graph



QP Limit QP Detector Vertical PK

Suspected List

Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	36.7934	23.47	-32.19	40.00	16.53	171	16	Vertical				
2	47.4687	23.04	-30.20	40.00	16.96	203	360	Vertical				
3	92.1111	28.86	-33.06	43.50	14.64	159	82	Vertical				
4	177.513	28.01	-33.08	43.50	15.49	286	343	Vertical				
5	284.267	19.55	-28.28	46.00	26.45	236	346	Vertical				
6	916.538	24.04	-14.98	46.00	21.96	160	128	Vertical				

Final Data List



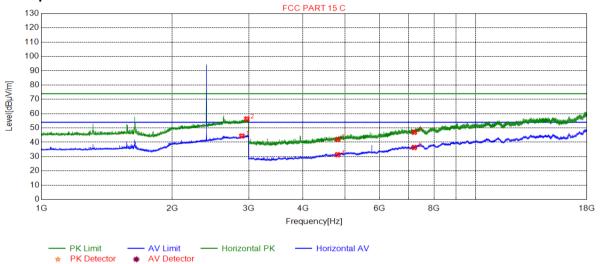


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4.9.2 **Transmitter Emission above 1GHz BLE 1M Channel 0 RIGHT** 4.9.2.1

Test Graph



Suspected List

Susp	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2892.47	44.36	10.42	54.00	9.64	203	173	Horizontal				
2	2969.49	56.26	10.64	74.00	17.74	120	311	Horizontal				
3	4804.00	41.96	-17.18	74.00	32.04	193	153	Horizontal				
4	4804.00	31.30	-17.18	54.00	22.70	128	329	Horizontal				
5	7206.00	47.00	-9.48	74.00	27.00	189	276	Horizontal				
6	7206.00	36.37	-9.48	54.00	17.63	163	205	Horizontal				

Final Data List



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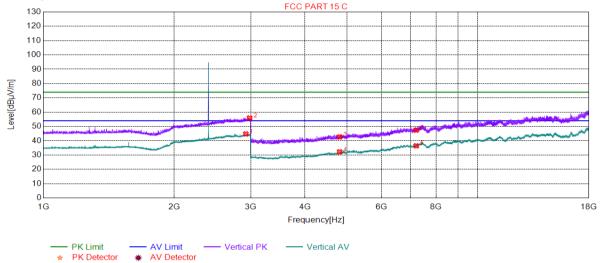


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BLE 1M Channel 0 RIGHT 4.9.2.2

Test Graph



Suspected List

Susp	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2922.48	44.75	10.53	54.00	9.25	202	342	Vertical				
2	2981.49	55.93	10.62	74.00	18.07	290	30	Vertical				
3	4804.00	42.70	-17.18	74.00	31.30	246	186	Vertical				
4	4804.00	32.26	-17.18	54.00	21.74	170	112	Vertical				
5	7206.00	36.45	-9.48	54.00	17.55	294	329	Vertical				
6	7206.00	47.40	-9.48	74.00	26.60	266	205	Vertical				

Final Data List



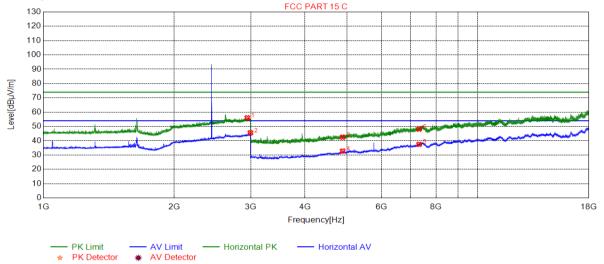


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BLE 1M Channel 19 RIGHT 4.9.2.3

Test Graph



Suspected List

Susp	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2945.48	56.06	10.64	74.00	17.94	178	333	Horizontal				
2	2994.49	45.57	10.68	54.00	8.43	110	169	Horizontal				
3	4880.00	42.50	-16.81	74.00	31.50	218	192	Horizontal				
4	4880.00	32.83	-16.81	54.00	21.17	125	174	Horizontal				
5	7320.00	37.50	-9.28	54.00	16.50	237	134	Horizontal				
6	7320.00	48.17	-9.28	74.00	25.83	100	134	Horizontal				

Final Data List



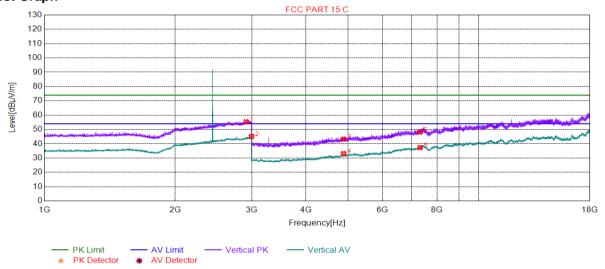


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BLE 1M Channel 19 RIGHT 4.9.2.4

Test Graph



Suspected List

Susp	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2912.97	55.37	10.53	74.00	18.63	195	166	Vertical				
2	2995.99	45.09	10.71	54.00	8.91	166	181	Vertical				
3	4880.00	43.24	-16.81	74.00	30.76	167	242	Vertical				
4	4880.00	33.12	-16.81	54.00	20.88	208	260	Vertical				
5	7320.00	37.35	-9.28	54.00	16.65	201	198	Vertical				
6	7320.00	48.26	-9.28	74.00	25.74	234	337	Vertical				

Final Data List



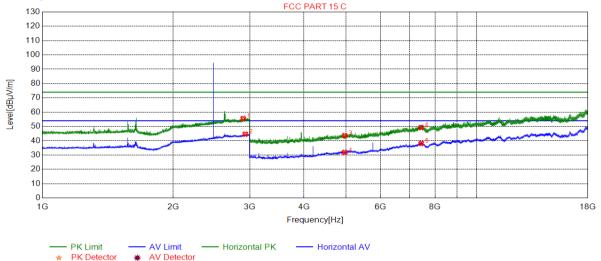


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BLE 1M Channel 39 RIGHT 4.9.2.5

Test Graph



Suspected List

Susp	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2896.47	55.51	10.42	74.00	18.49	106	293	Horizontal				
2	2930.48	44.61	10.71	54.00	9.39	168	167	Horizontal				
3	4960.00	43.62	-16.28	74.00	30.38	206	241	Horizontal				
4	4960.00	31.90	-16.28	54.00	22.10	148	278	Horizontal				
5	7440.00	38.14	-8.83	54.00	15.86	146	146	Horizontal				
6	7440.00	49.26	-8.83	74.00	24.74	171	146	Horizontal				

Final Data List



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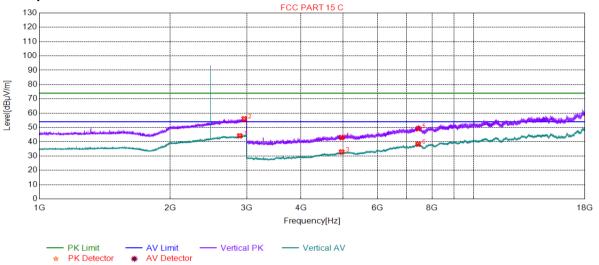


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BLE 1M Channel 39 RIGHT 4.9.2.6

Test Graph



Suspected List

Susp	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2890.97	44.14	10.41	54.00	9.86	262	235	Vertical				
2	2959.48	56.06	10.55	74.00	17.94	174	184	Vertical				
3	4960.00	32.92	-16.28	54.00	21.08	251	345	Vertical				
4	4960.00	42.90	-16.28	74.00	31.10	292	195	Vertical				
5	7440.00	49.21	-8.83	74.00	24.79	175	178	Vertical				
6	7440.00	38.31	-8.83	54.00	15.69	295	249	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 and 18GHz to 25GHz 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.
- All Modes have been tested, but only the worst case data displayed in this report.



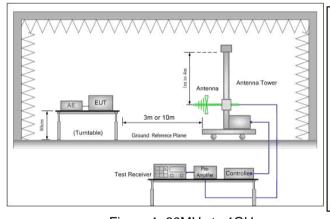


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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section	15.209 and 15.205									
Test Method:	ANSI C63.10: 2013 Sectio	ANSI C63.10: 2013 Section 11.12									
Test Site:	Measurement Distance: 3r	leasurement 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 4CLI-	54.0 Average V									
	ADOVE TGHZ	Above 1GHz 74.0 Peak Value									
Test Setup:											



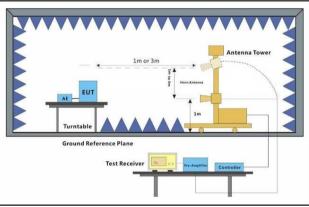


Figure 1. 30MHz to 1GHz

Figure 2. 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 camber. 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 camber. 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 6 for details
Test Results:	Pass
Remark:	The Emission Test data were reused from the report no:XZR/2021/1004104





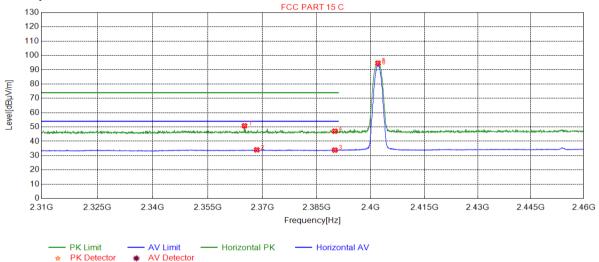
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Test Plots 4.10.1

BLE 1M Channel 0 RIGHT 4.10.1.1

Test Graph



Suspected List

Susp	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2365.07	50.80	8.06	74.00	23.20	123	252	Horizontal				
2	2368.45	34.01	8.08	54.00	19.99	171	288	Horizontal				
3	2390.00	33.83	7.98	54.00	20.17	190	262	Horizontal				
4	2390.00	47.05	7.98	74.00	26.95	234	218	Horizontal				
5	2402.00	94.63	8.06	0.00	-94.63	132	262	Horizontal				
6	2402.00	93.57	8.06	0.00	-93.57	233	262	Horizontal				

Final Data List



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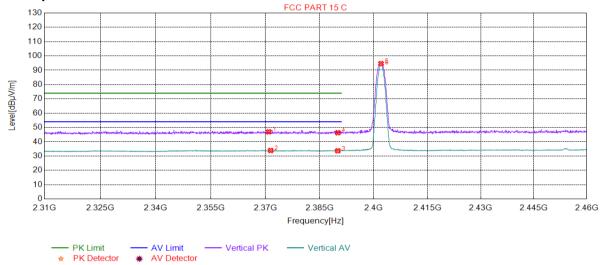


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BLE 1M Channel 0 RIGHT 4.10.1.2

Test Graph



Suspected List

Susp	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2370.93	46.95	8.06	74.00	27.05	231	40	Vertical				
2	2371.45	33.89	8.05	54.00	20.11	179	150	Vertical				
3	2390.00	33.70	7.98	54.00	20.30	260	44	Vertical				
4	2390.00	46.30	7.98	74.00	27.70	271	59	Vertical				
5	2402.00	94.66	8.06	0.00	-94.66	298	19	Vertical				
6	2402.00	93.87	8.06	0.00	-93.87	288	19	Vertical				

Final Data List



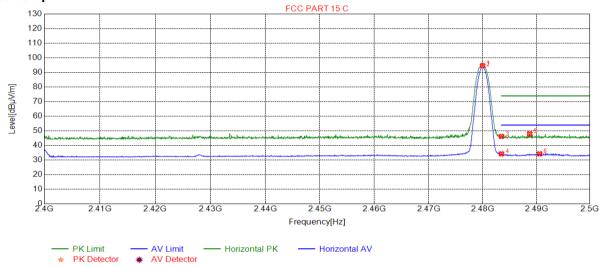


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BLE 1M Channel 39 RIGHT 4.10.1.3

Test Graph



Suspected List

Susp	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2480.00	94.63	8.54	0.00	-94.63	140	305	Horizontal	
2	2480.00	93.61	8.54	0.00	-93.61	124	284	Horizontal	
3	2483.50	46.23	8.50	74.00	27.77	245	266	Horizontal	
4	2483.50	34.29	8.50	54.00	19.71	166	296	Horizontal	
5	2488.74	47.99	8.59	74.00	26.01	219	266	Horizontal	
6	2490.59	34.29	8.62	54.00	19.71	144	266	Horizontal	

Final Data List



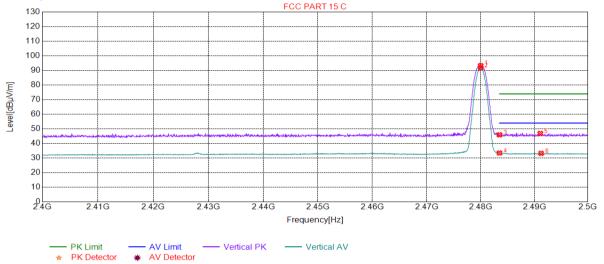


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4.10.1.4 **BLE 1M Channel 39 RIGHT**

Test Graph



Suspected List

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2480.00	93.27	8.54	0.00	-93.27	244	3	Vertical	
2	2480.00	91.85	8.54	0.00	-91.85	239	0	Vertical	
3	2483.50	45.93	8.50	74.00	28.07	182	1	Vertical	
4	2483.50	33.53	8.50	54.00	20.47	254	346	Vertical	
5	2491.09	46.89	8.61	74.00	27.11	156	101	Vertical	
6	2491.24	33.27	8.61	54.00	20.73	297	90	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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Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

No.	Item	Measurement Uncertainty		
1	Total RF power, conducted	±0.41dB		
2	RF power density, conducted	±1.96dB		
3	Spurious emissions, conducted	±0.41dB		
4	Radio Frequency	±7.10 x 10 ⁻⁸		
5	Duty Cycle	±0.49%		
6	Occupied Bandwidth	±0.2%		

Lab B:

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





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Equipment List

		RF conducted			
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/4/16	2021/4/15
DC Power Supply	Rohde & Schwarz	HMP2020	W009-08	2020/7/15	2021/7/15
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/13
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2020/4/21	2021/4/20

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	XAW01-08-01	2020-09-11	2021-09-10			
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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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国·深圳·科技园中区M-10栋一号厂房



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7 **Photographs - EUT Constructional Details**

Refer to Appendix A DTS_DSS Setup Photos.

The End

