Page: 1 of 54

FCC TEST REPORT

Application No: HR/2019/B0013 **Applicant:** Telcare, LLC

Address of Applicant 150 Baker Avenue Extension, Suite 300, Concord, MA 01742

Manufacturer: Telepoch LTD

Address of Manufacturer Room 602, Floor 6th, Building B, Software Park T3,Hi-Tech Park South,

Nanshan District, Shenzhen, P.R. China 518057

Factory: ShenZhen Luckcome Technology INC.,LTD

Address of Factory 6A, Building 6, Tongfuyu Industry Park, Tanglang, Xili Town, Nanshan

District, Shenzhen, GuangDong, China

EUT Description: Blood Glucose Meter

Model No.: BGM4.0
Trade Mark: BioTel

FCC ID: 2AVLMCARE01

Standards: 47 CFR FCC Part 2, Subpart J

47 CFR Part 15, Subpart C

Test Method KDB558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10 (2013)

Date of Receipt: 2019/12/4

Date of Test: 2019/12/4 to 2020/1/13

Date of Issue: 2020/1/13

Test Result: PASS *

Authorized Signature:

Derell yang

Derek Yang Wireless Laboratory M

Wireless Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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1 Version

Revision Record						
Version Chapter Date Modifier Remark						
00		2020/1/13		Original		

Authorized for issue by:		
Tested By	Mike Mu	2020/1/13
	(Mike Hu) /Project Engineer	Date
Checked By	David Chen	2020/1/13
	(David Chen) /Reviewer	Date





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2 Test Summary

Test Item	Test Requirement	Test method	Test Result	Result
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.3	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.5	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS



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3 General Information

3.1 Client Information

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Address of Applicant:	150 Baker Avenue Extension, Suite 300, Concord, MA 01742		
Manufacturer:	Telepoch LTD		
Address of Manufacturer:	Room 602, Floor 6th, Building B, Software Park T3,Hi-Tech Park South, Nanshan District, Shenzhen, P.R. China 518057		
Factory:	ShenZhen Luckcome Technology INC.,LTD		
Address of Factory:	6A , Building 6, Tongfuyu Industry Park, Tanglang, Xili Town, Nanshan District, Shenzhen, GuangDong, China		

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	
Address: No. 1 Workshop, M-10, Middle section, Science & Technology F 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.



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3.4 General Description of EUT

EUT Description:	Blood Glucose Meter	
Model No.:	BGM4.0	
Trade Mark:	BioTel	
Hardware Version:	BG2802_MB_V2.2	
Software Version:	BG2802_01.01.07.131752	
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 V4.1 LE	
Modulation Type:	GFSK	
Number of Channel:	40	
Sample Type:	⊠ Portable Device,	
Antenna Type:	☐ External, ☑ Integrated	
Antenna Gain:	1.2dBi	
Power Supply:	☐ AC/DC Adapter; ☐ Battery; ☐ PoE:; ☐ Other:	

	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	



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3.5 **Test Environment**

Operating Environment			
Temperature:	25.0 °C		
Humidity:	50 % RH		
Atmospheric Pressure:	101.32 KPa		

3.6 **Description of Support Units**

The EUT has been tested independent unit.

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 1.2dBi.





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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 (dBuV)		
	Frequency range (MHz)	Quasi-peak	Average	
129	0.15-0.5	66 to 56*	56 to 46*	
Limit:	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarithm of the frequency.			
Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shielded rod 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. power cables of all other units of the EUT were connected to a second LIS which was bonded to the ground reference plane in the same way as the LIS for the unit being measured. A multiple socket outlet strip was used to conmultiple power cables to a single LISN provided the rating of the LISN was exceeded. 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 or horizontal ground reference plane. The test was performed with a vertical ground reference plane. The rear of 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 LI was placed 0.8 m from the boundary of the unit under test and bonded ground reference plane for LISNs mounted on top of the ground reference plane for LISNs mounted on top of the ground reference plane the closest points of the LISN 1 and the EUT other units of the EUT and associated equipment was at least 0.8 m from LISN 2. In order to find the maximum emission, the relative positions of equipment all of the interface cables must be changed according to 			
Test Setup:	Shielding Room EUT AC Mains LISN1		Test Receiver	



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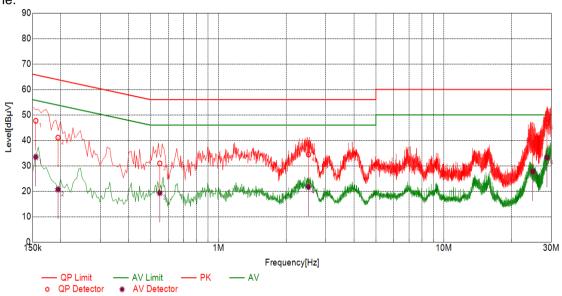
Test Mode:	Transmitting with GFSK modulation. Charge +Transmitting mode.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

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:



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]	Type
1	0.1550	10.10	47.69	65.73	18.04	33.47	55.73	22.26	L
2	0.1945	10.10	41.07	63.84	22.77	20.70	53.84	33.14	L
3	0.5496	10.10	30.91	56.00	25.09	19.30	46.00	26.70	L
4	2.5112	10.10	34.46	56.00	21.54	21.68	46.00	24.32	L
5	24.8054	10.11	38.31	60.00	21.69	27.78	50.00	22.22	Ĺ
6	28.6776	10.11	46.82	60.00	13.18	33.22	50.00	16.78	Ĺ



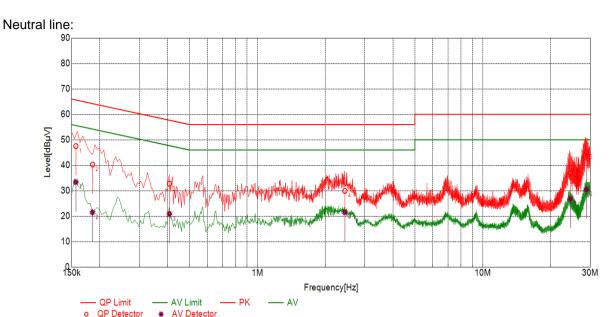
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Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1567	10.10	47.53	65.63	18.10	33.40	55.63	22.23	N
2	0.1857	10.10	40.28	64.22	23.94	21.50	54.22	32.72	N
3	0.4076	10.10	32.75	57.70	24.95	20.92	47.70	26.78	N
4	2.4433	10.10	29.96	56.00	26.04	21.52	46.00	24.48	N
5	24.4714	10.11	37.06	60.00	22.94	26.82	50.00	23.18	N
6	28.8287	10.11	45.19	60.00	14.81	30.60	50.00	19.40	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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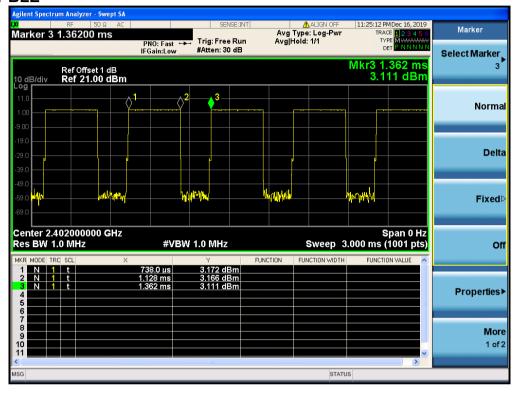
Duty Cycle 4.3

4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
BLE	CH0	62.50

4.3.1 Test Plots

4.3.1.1 **BLE**





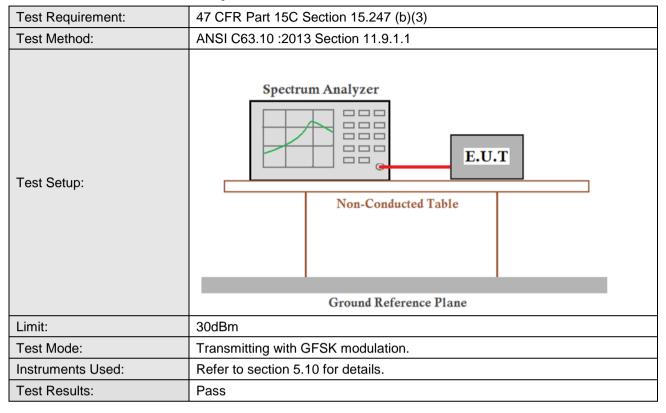
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4.4 Conducted Output Power



4.4.1 Test Results

Measurement Data of Average Power

GFSK mode						
Test channel	Average Output Power (dBm)	Result				
Lowest	2.51	Report purpose only				
Middle	3.32	Report purpose only				
Highest	2.15	Report purpose only				

Measurement Data of Peak Power:

GFSK mode							
Test channel Peak Output Power (dBm) Limit (dBm) Result							
Lowest	3.61	30.00	Pass				
Middle	4.38	30.00	Pass				
Highest	3.47	30.00	Pass				



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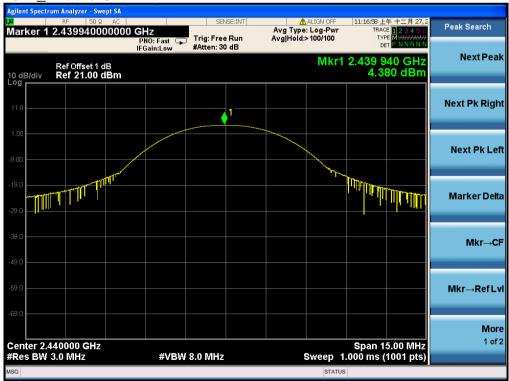
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4.4.2 Test plots:

4.4.2.1 GFSK Lowest Channel



4.4.2.2 GFSK Middle Channel





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4.4.2.3 GFSK _Highest Channel





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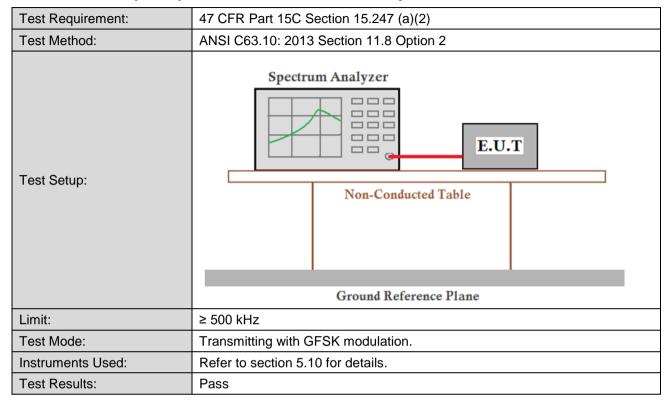
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth



4.5.1 Test Results

1.5.1 1 0 0 t 1 t 0 t	Jaito				
Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	1.07	0.66	≥500	Pass
GFSK	Middle	1.08	0.68	≥500	Pass
	Highest	1.08	0.70	≥500	Pass



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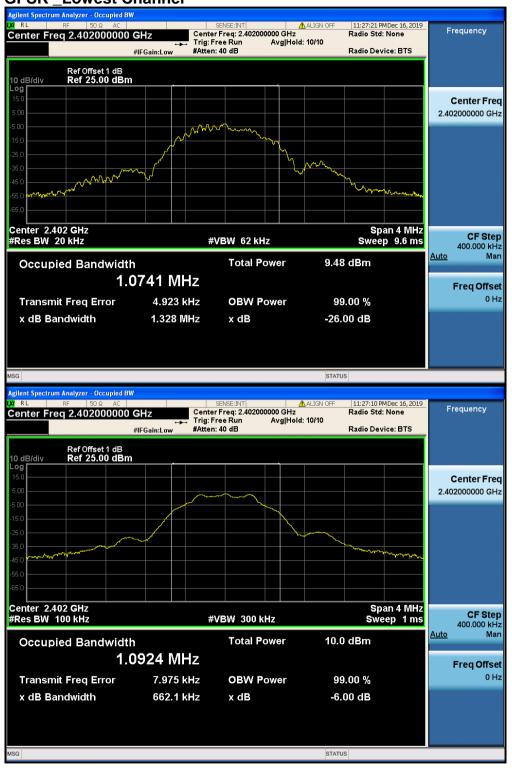


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4.5.2 Test plots

4.5.2.1 GFSK Lowest Channel





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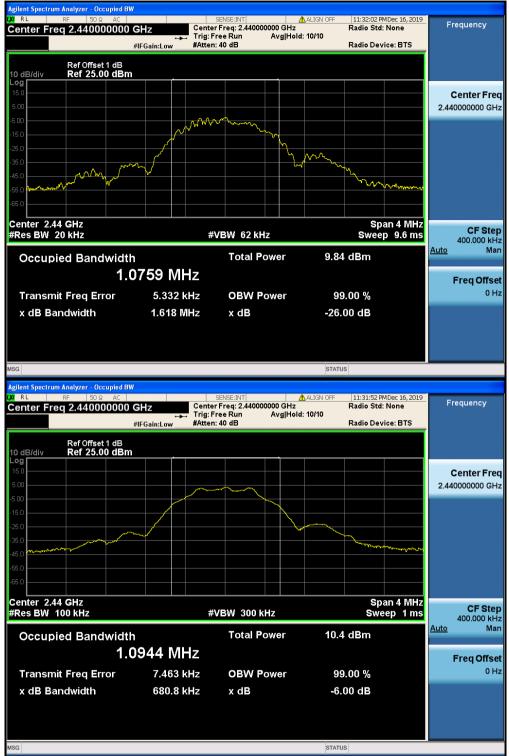
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4.5.2.2 GFSK _Middle Channel





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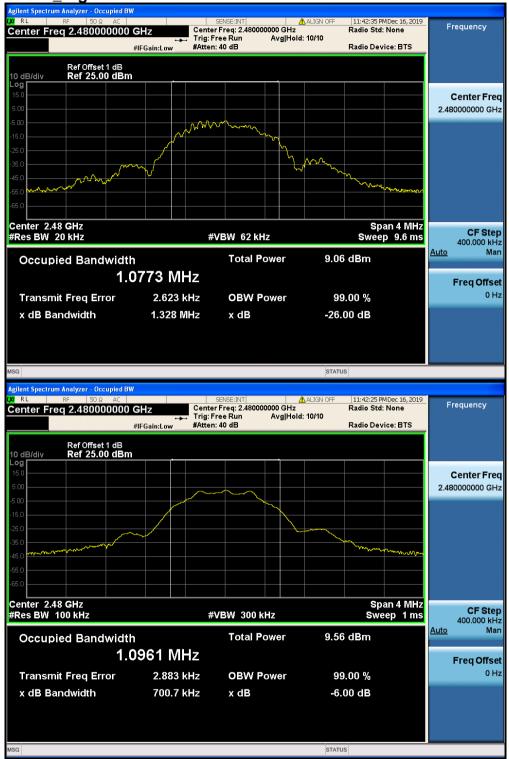
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4.5.2.3 GFSK _Highest Channel





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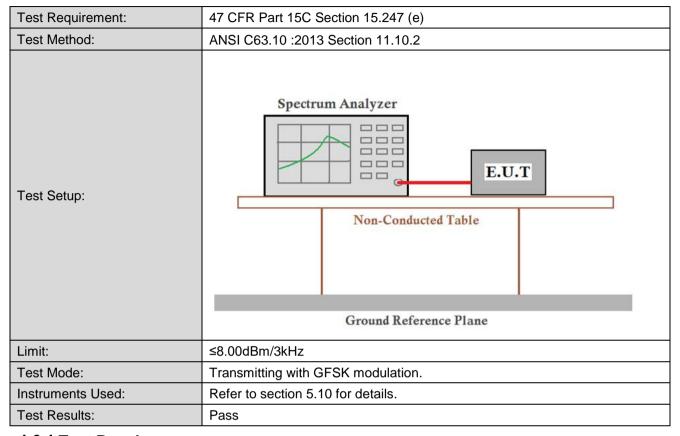
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4.6 Power Spectral Density



4.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-11.62	≥8.00	Pass
GFSK	Middle	-11.45	≤8.00	Pass
	Highest	-12.30	≤8.00	Pass



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4.6.2 Test plots

4.6.2.1 GFSK _Lowest Channel



4.6.2.2 GFSK Middle Channel





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4.6.2.3 GFSK Highest Channel





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Band-edge for RF Conducted Emissions 4.7

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



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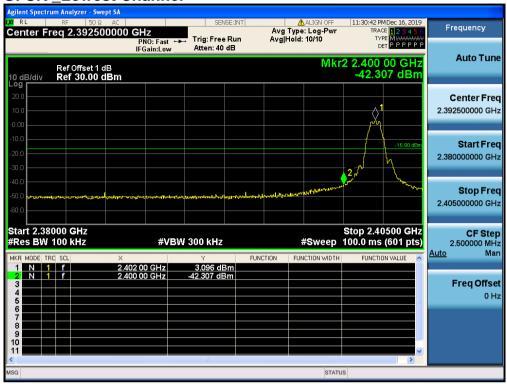


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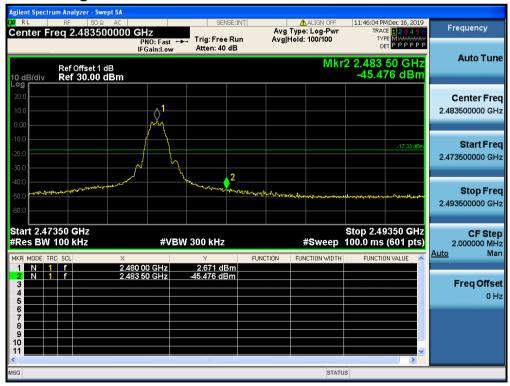
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4.7.1 Test plots

4.7.1.1 GFSK Lowest Channel



4.7.1.2 GFSK _Highest Channel





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4.8 Spurious RF Conducted 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				
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 Mode:	Transmitting with GFSK modulation.				
Instruments Used:	Refer to section 5.10 for details.				
Test Results:	Pass				



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4.8.1 Test plots:

4.8.1.1 GFSK Lowest Channel





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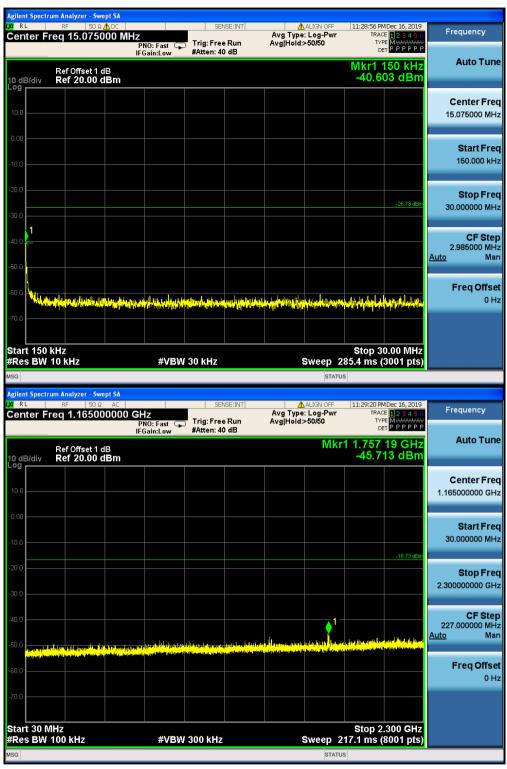
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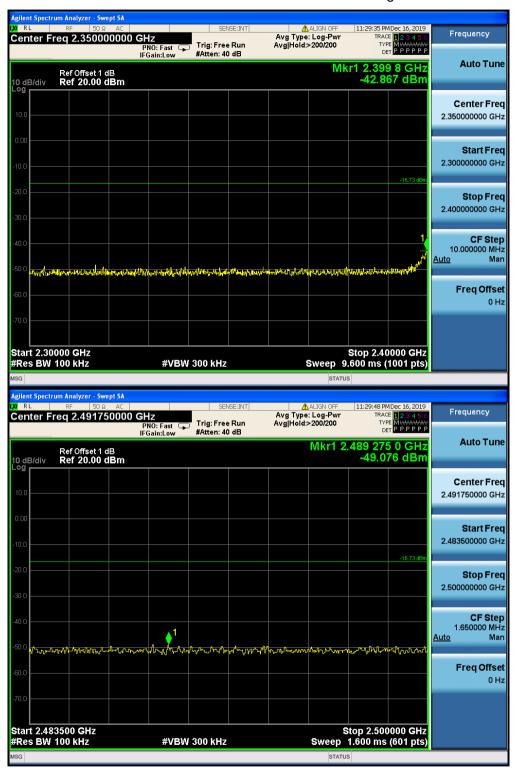
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4.8.1.2 GFSK _Middle Channel





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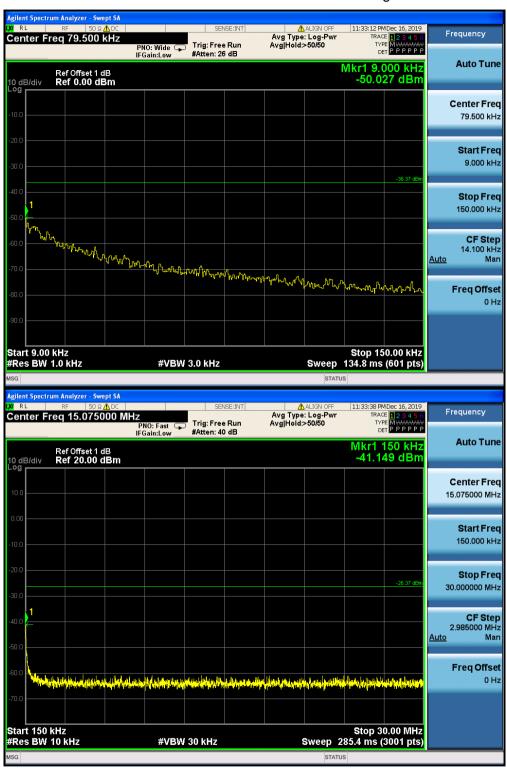
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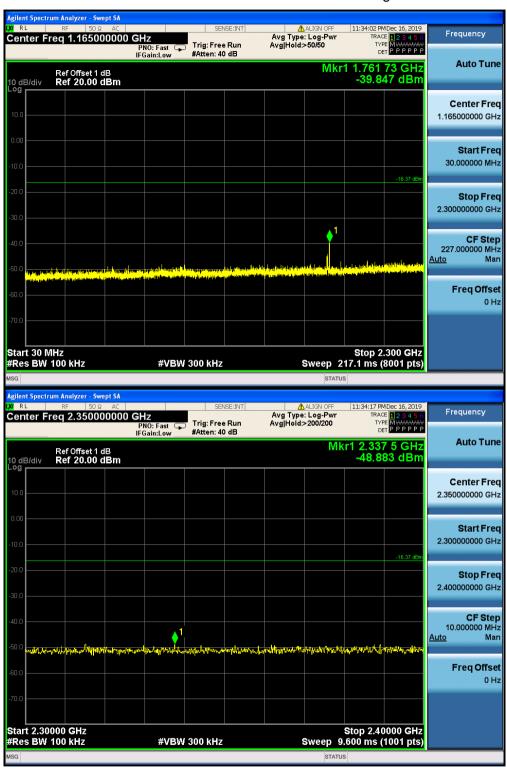
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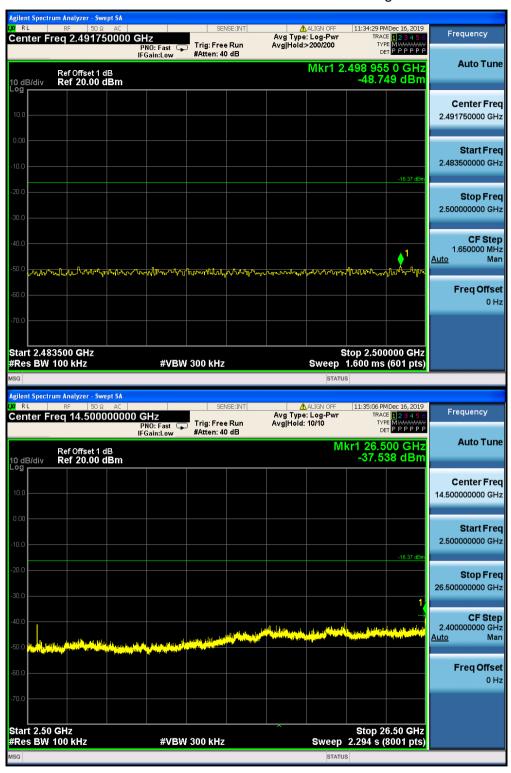
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4.8.1.3 GFSK _Highest Channel





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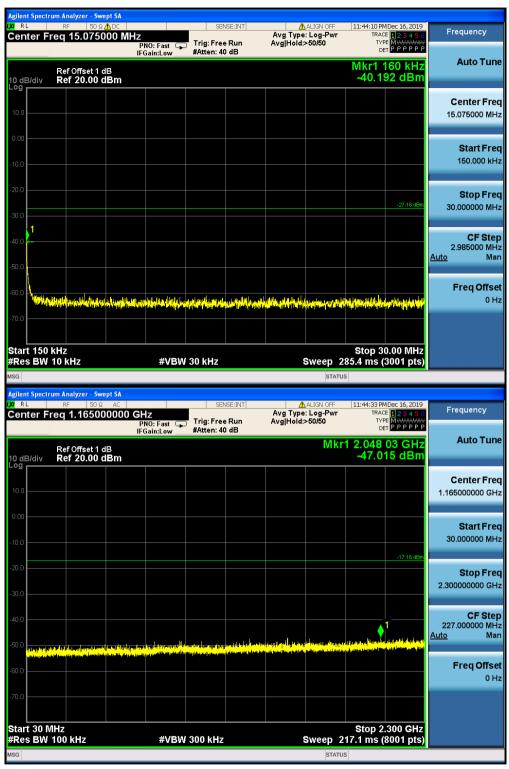
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Remark:

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 Emission

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 or 10m (Semi-Anechoic Chamber)							
	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			
Receiver Setup:	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak			
	AL 4011	Peak	1MHz	3MHz	Peak			
	Above 1GHz	Peak	1MHz	10Hz	Average			
	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			
Limit:	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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Total Poschedons and ***

Total Poschedons*

Total Poschedons*

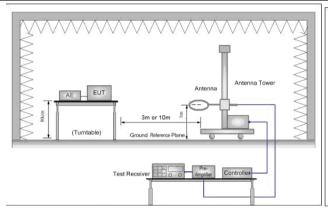
**Total Poschedons



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Test Setup:



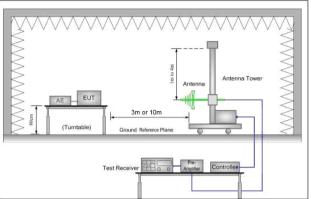


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

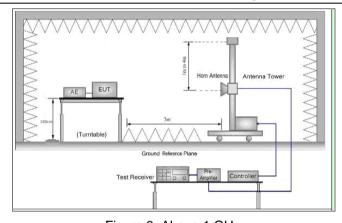


Figure 3. Above 1 GHz

- 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.

Test Procedure:

- 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 (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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



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	 g. 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. h. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst 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, 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					



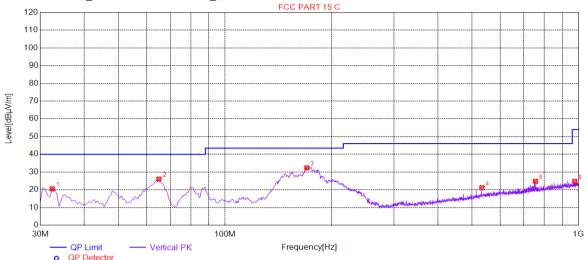


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4.9.1 Radiated Emission below 1GHz

4.9.1.1 Charge + Transmitting, Vertical



Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.4262	20.51	-32.80	40.00	19.49	100	178	Vertical
2	64.9375	25.98	-32.91	40.00	14.02	100	246	Vertical
3	170.2351	32.32	-33.59	43.50	11.18	100	314	Vertical
4	532.7114	21.14	-21.87	46.00	24.86	100	16	Vertical
5	755.4377	24.74	-17.37	46.00	21.26	100	98	Vertical
6	975.2526	24.70	-14.17	54.00	29.30	100	256	Vertical

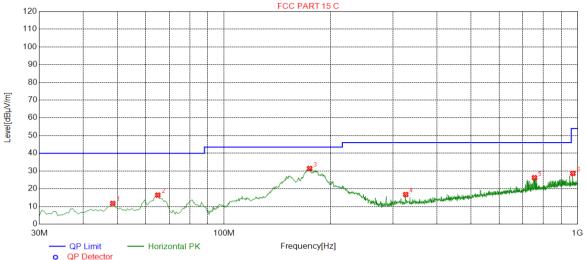




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4.9.1.2 Charge + Transmitting, Horizontal



Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4392	11.70	-30.19	40.00	28.30	100	232	Horizontal
2	64.9375	16.38	-32.91	40.00	23.62	100	97	Horizontal
3	174.6023	31.41	-33.29	43.50	12.09	100	122	Horizontal
4	326.4832	16.74	-27.08	46.00	29.26	100	110	Horizontal
5	755.4377	26.22	-17.37	46.00	19.78	100	329	Horizontal
6	969.9150	28.63	-14.23	54.00	25.37	100	90	Horizontal



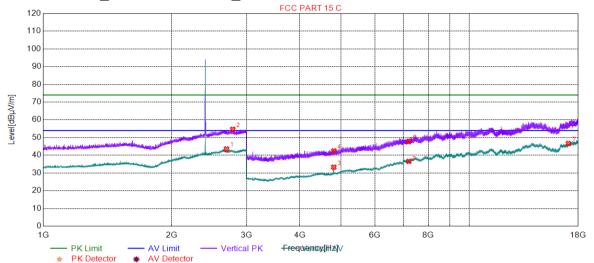


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4.9.2 Transmitter Emission above 1GHz

4.9.2.1 GFSK Lowest Channel Vertical



Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2690.9227	43.56	8.61	54.00	10.44	150	0	Vertical			
2	2782.9457	54.65	9.02	74.00	19.35	150	179	Vertical			
3	4804.0000	33.28	-18.30	54.00	20.72	150	182	Vertical			
4	4804.0000	42.47	-18.30	74.00	31.53	150	155	Vertical			
5	7206.0000	36.58	-10.09	54.00	17.42	150	140	Vertical			
6	7206.0000	47.87	-10.09	74.00	26.13	150	40	Vertical			
7	17071.5536	46.63	0.24	54.00	7.37	150	0	Vertical			

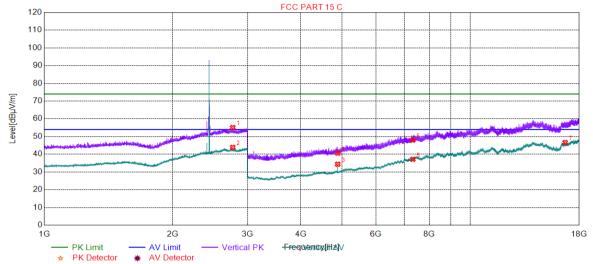




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4.9.2.2 GFSK _Middle Channel_ Vertical



Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2768.4421	55.09	9.06	74.00	18.91	150	40	Vertical			
2	2768.4421	43.91	9.06	54.00	10.09	150	301	Vertical			
3	4880.5881	34.40	-17.97	54.00	19.60	150	18	Vertical			
4	4882.0000	40.65	-17.96	74.00	33.35	150	72	Vertical			
5	7323.0000	37.20	-9.71	54.00	16.80	150	0	Vertical			
6	7323.0000	48.00	-9.71	74.00	26.00	150	141	Vertical			
7	16679.9340	46.65	0.52	54.00	7.35	150	292	Vertical			

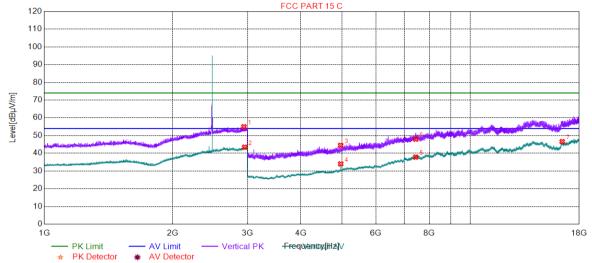




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4.9.2.3 GFSK _High Channel_ Vertical



Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2940.4851	54.97	9.58	74.00	19.03	150	342	Vertical			
2	2952.4881	43.44	9.67	54.00	10.56	150	342	Vertical			
3	4960.0000	44.50	-17.47	74.00	29.50	150	108	Vertical			
4	4960.0000	34.03	-17.47	54.00	19.97	150	81	Vertical			
5	7440.0000	37.82	-9.35	54.00	16.18	150	191	Vertical			
6	7440.0000	47.97	-9.35	74.00	26.03	150	91	Vertical			
7	16417.0209	46.58	-0.04	54.00	7.42	150	242	Vertical			

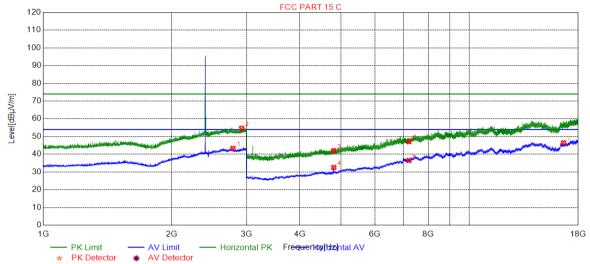




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4.9.2.4 GFSK Lowest Channel Horizontal



Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2785.9465	43.32	9.02	54.00	10.68	150	60	Horizontal			
2	2920.4801	54.69	9.36	74.00	19.31	150	209	Horizontal			
3	4804.0000	42.05	-18.30	74.00	31.95	150	156	Horizontal			
4	4804.0000	32.56	-18.30	54.00	21.44	150	156	Horizontal			
5	7206.0000	36.48	-10.09	54.00	17.52	150	242	Horizontal			
6	7206.0000	47.10	-10.09	74.00	26.90	150	242	Horizontal			
7	16632.0816	46.52	0.32	54.00	7.48	150	292	Horizontal			

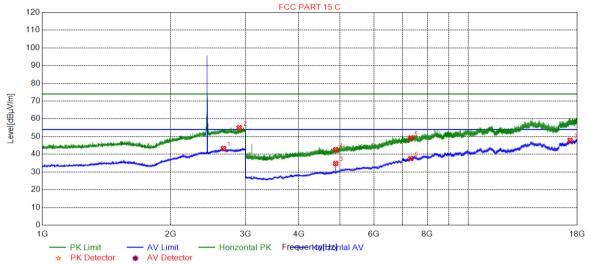




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4.9.2.5 GFSK Middle Channel Horizontal



Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2662.4156	43.26	8.68	54.00	10.74	150	32	Horizontal			
2	2899.4749	54.99	9.14	74.00	19.01	150	359	Horizontal			
3	4880.5881	34.78	-17.97	54.00	19.22	150	155	Horizontal			
4	4882.0000	42.60	-17.96	74.00	31.40	150	155	Horizontal			
5	7323.0000	49.22	-9.71	74.00	24.78	150	41	Horizontal			
6	7323.0000	37.59	-9.71	54.00	16.41	150	142	Horizontal			
7	17321.2661	47.84	0.89	54.00	6.16	150	91	Horizontal			

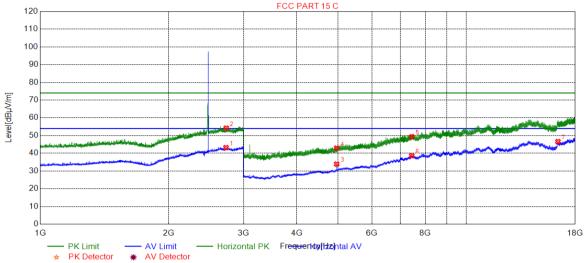




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4.9.2.6 GFSK High Channel Horizontal



Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2727.9320	43.22	8.88	54.00	10.78	150	324	Horizontal			
2	2730.9327	54.18	8.91	74.00	19.82	150	359	Horizontal			
3	4960.0000	33.91	-17.47	54.00	20.09	150	155	Horizontal			
4	4960.0000	42.95	-17.47	74.00	31.05	150	210	Horizontal			
5	7440.0000	49.32	-9.35	74.00	24.68	150	241	Horizontal			
6	7440.0000	38.60	-9.35	54.00	15.40	150	40	Horizontal			
7	16389.5195	46.60	-0.13	54.00	7.40	150	0	Horizontal			

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
- 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.
- 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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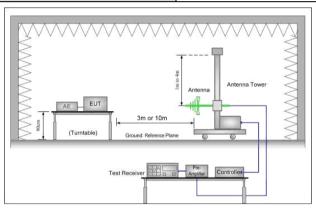
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4.10 Restricted bands around fundamental frequency

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



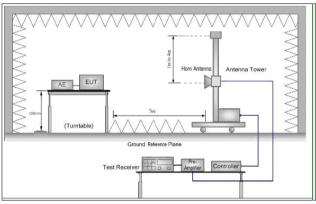


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

- 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
- The radiation measurements are performed in X, Y, Z axis positioning for



Test Procedure:

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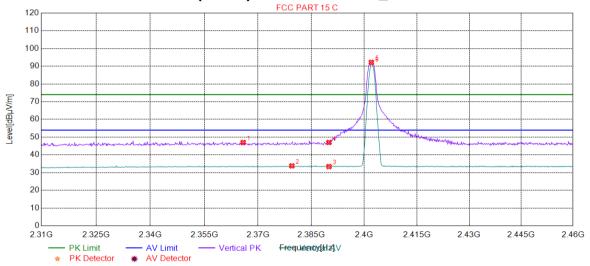
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	Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete.				
Exploratory Test Mode:	Transmitting with GFSK modulation.				
Exploratory rest wode.	Charge + Transmitting mode.				
	Transmitting with GFSK modulation.				
Final Test Mode:	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				

4.10.1 Test plots

4.10.1.1 Worst Case Mode (GFSK) Lowest Channel_ Vertical



Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2365.8559	47.00	7.79	74.00	27.00	150	68	Vertical			
2	2379.5195	33.81	7.78	54.00	20.19	150	337	Vertical			
3	2390.0000	33.42	7.77	54.00	20.58	150	112	Vertical			
4	2390.0000	47.00	7.77	74.00	27.00	150	308	Vertical			
5	2402.0000	92.21	7.77	74.00	-18.21	150	180	Vertical			
6	2402.0000	91.46	7.77	54.00	-37.46	150	180	Vertical			

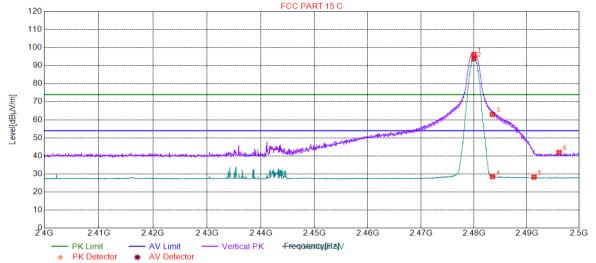




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4.10.1.2 Worst Case Mode (GFSK) Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	96.23	8.01	74.00	-22.23	150	330	Vertical
2	2480.0000	93.86	8.01	54.00	-39.86	150	24	Vertical
3	2483.5000	62.96	8.01	74.00	11.04	150	29	Vertical
4	2483.5000	28.50	8.01	54.00	25.50	150	24	Vertical
5	2491.3957	28.24	8.02	54.00	25.76	150	186	Vertical
6	2496.1481	41.94	8.03	74.00	32.06	150	24	Vertical

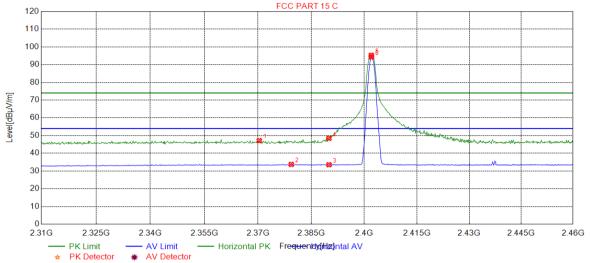




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4.10.1.3 Worst Case Mode (GFSK) Lowest Channel Horizontal



Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2370.3604	47.16	7.79	74.00	26.84	150	346	Horizontal	
2	2379.3694	33.72	7.78	54.00	20.28	150	5	Horizontal	
3	2390.0000	33.54	7.77	54.00	20.46	150	285	Horizontal	
4	2390.0000	48.44	7.77	74.00	25.56	150	342	Horizontal	
5	2402.0000	95.31	7.77	74.00	-21.31	150	120	Horizontal	
6	2402.0000	94.30	7.77	54.00	-40.30	150	120	Horizontal	

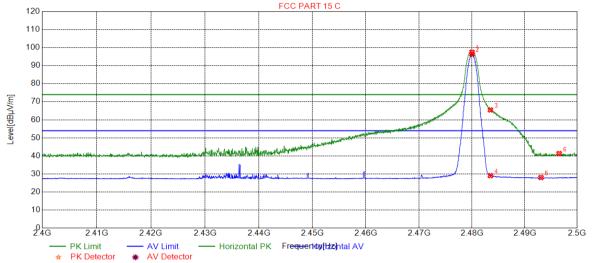




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4.10.1.4 Worst Case Mode (GFSK) Highest Channel Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	97.45	8.01	74.00	-23.45	150	136	Horizontal
2	2480.0000	96.35	8.01	54.00	-42.35	150	125	Horizontal
3	2483.5000	65.47	8.01	74.00	8.53	150	125	Horizontal
4	2483.5000	29.09	8.01	54.00	24.91	150	206	Horizontal
5	2493.0965	28.04	8.02	54.00	25.96	150	359	Horizontal
6	2496.5483	41.32	8.03	74.00	32.68	150	47	Horizontal

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)

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	Padiated Spurious emission test	±4.5dB (30MHz-1GHz)		
4	Radiated Spurious emission test	±4.8dB (1GHz-25GHz)		
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)		
6	Temperature test	±1°C		
7	Humidity test	±3%		
8	DC and low frequency voltages	±0.5%		



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6 Equipment List

Conducted Emission								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate			
rest Equipment			inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)			
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9			
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019/7/14	2020/7/14			
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/4/1	2020/3/31			
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM024-01	2019/6/12	2020/6/11			
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10			
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1			

	RF conducted test							
				Cal. date	Cal.Duedate			
Test Equipment	Manufacturer	Model No.	Inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)			
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15			
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/1/13	2020/1/12			
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11			
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14			
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27			
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14			

RE in Chamber									
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date				
rest Equipment	Wallulacturei		inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)				
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4				
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM025-01	2019/6/12	2020/6/11				
MXE EMI Receiver (20Hz- 8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019/7/14	2020/7/14				
BiConiLog Antenna (26- 3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26				
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2019/3/2	2020/3/1				

RE in Chamber								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date			
Test Equipment	Wanuacturer	woder No.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)			
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12			
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11			
EXA Signal Analyzer (10Hz- 26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2019/3/12	2020/3/11			
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26			
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12			
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14			
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2019/9/3	2020/9/2			
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16			
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019/3/2	2020/3/1			
Band filter	N/A	N/A	SEM023-01	N/A	N/A			



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RE in Chamber								
Test Equipment	Manufacturer	anufacturer Model No.		Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)			
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30			
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019/3/2	2020/3/1			
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2018/3/15	2020/3/14			
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2019/3/12	2020/3/11			
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21			
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM029-01	2019/6/12	2020/6/11			

7 **Photographs - EUT Constructional Details**

Refer to Appendix A - Photographs of EUT Constructional Details for HR/2019/B0013

The End

