

Report No.: SZEM161201074803

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FCC REPORT

Application No: SZEM1612010748RG

Applicant: LG Electronics Mobile Comm USA **Manufacturer:** Huaqin Telecom Technology Co. Ltd.

Factory: Dong Guan Huabel Electronic Technology Co.,Ltd

Product Name: Mobile Handset

Model No.(EUT): LG-X230Z

Add Model No.: LG-X230YK

Trade Mark: LG

FCC ID: ZNFX230Z

Standards: 47 CFR Part 15, Subpart C (2015)

Test Method KDB 558074 D01 558074 D01 DTS Meas Guidance v03r05

ANSI C63.10 2013

Date of Receipt: 2016-12-18

Date of Test: 2016-12-20 to 2016-12-30

Date of Issue: 2017-02-23

Test Result: PASS *

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

Authorized Signature:

Derele yang

Derek Yang

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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2 Version

Revision Record						
Version	Chapter	papter Date Modifier Ren		Remark		
01		2017-01-05		Original		
02		2017-02-21	Mike Hu	Revised report to address TCB's questions		
03		2017-02-23	Mike Hu	Revised the Bluetooth version		
04		2017-03-14	Mandy Lai	Revised the model No.		

Authorized for issue by:		
Tested By	Mike Mu (Mike Hu) /Project Engineer	2017-01-05 Date
	(Mike Hu)/FTOJECT Engineer	Date
	Jun Hog	2017-02-23
Checked By		2017-02-23



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3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious 47 CFR Part 15, Subpart C S Emissions 15.205/15.209		ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS

Remark:

Model No.: LG-X230Z, LG-X230YK

Only the model LG-X230Z was tested, since the electrical circuit design, layout, components used and internal wiring were identical for all above model only different on sales area.



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5 General Information

5.1 Client Information

Applicant: LG Electronics Mobile Comm USA			
Address of Applicant:	1000 Sylvan Avenue Englewood Cliffs,NJ 07632		
Manufacturer:	Huaqin Telecom Technology Co. Ltd.		
Address of Manufacturer:	No.1 Building,399 Keyuan Road, Zhangjiang Hi-Tech Park, Pudong New Area, Shanghai, China		
Factory:	Dong Guan Huabel Electronic Technology Co.,Ltd		
Address of Factory:	No.9 Industrial Northern Road, National High-Tech Industrial Development Zone, SongShan Lake, Dong Guan		

5.2 General Description of EUT

Product Name:	Mobile Handset
Model No.:	LG-X230Z, LG-X230YK
Trade Mark:	LG
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth 4.2 (This test report is for BLE)
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Portable Device
Antenna Type:	PIFA
Antenna Gain:	-1.8dBi
Power Supply	DC3.85V (1 x 3.85V Rechargeable battery) 2500mAh Battery: Charge by DC 5V
AC adaptor:	Model:MCS-02WR2 Input: AC100-240V 50/60Hz 0.2A Output:DC5.0V 0.85A



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Operation Frequency each of 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

Note:

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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5.3 Test Environment

Operating Environment				
Temperature:	25.0 °C			
Humidity:	50 % RH			
Atmospheric Pressure:	1010 mbar			

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

5.6 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 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

• 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.

5.7 Deviation from Standards

None.



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5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

5.10 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	
		4.5dB (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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5.11Equipment List

	Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2016-05-13	2017-05-13
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2016-10-09	2017-10-09
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2016-04-25	2017-04-25
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T8-02	EMC0120	2016-09-28	2017-09-28
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T4-02	EMC0121	2016-09-28	2017-09-28
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	EMC0122	2016-09-28	2017-09-28
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2016-04-25	2017-04-25
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09

	RF connected test						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)	
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09	
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-17	2017-10-17	
3	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25	
4	Power Meter	Agilent Technologies	N1914A	W008-02	2016-06-27	2017-06-27	
5	Power Sensor	Agilent Technologies	U2021XA	SEM009-01	2016-10-09	2017-10-09	



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	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2016-05-13	2017-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2016-09-16	2017-09-16
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01
4	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17
5	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2016-04-25	2017-04-25
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13

	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2016-05-13	2017-05-13
2	EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2016-04-25	2017-04-25
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-29
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2016-07-06	2017-07-06
5	.Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14



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	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2016-05-13	2017-05-13
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2016-04-25	2017-04-25
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
6	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2016-10-09	2017-10-09
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A



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6 Test results and Measurement Data

6.1 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 -1.8dBi.



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6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.2	207			
•					
	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz	Limit (dD. N)			
	Frequency range (MHz)	Limit (dBuV)			
		Quasi-peak	Average		
Limit:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm				
Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shielded room. 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. 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. 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. 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:	Shielding Room EUT AC Mains LISN1	AE ### LISN2 AC Ma	Test Receiver		
		Ground Reference Plane			
I LEST MODE.	Transmitting with GFSK modu Charge +Transmitting mode.				
l est Mode:	•	lation.			

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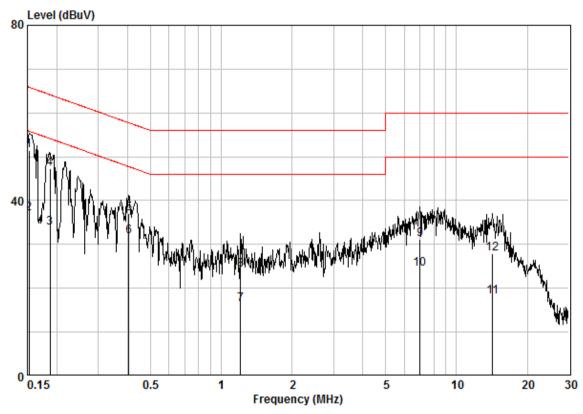
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Measurement Data

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:



Site : Shielding Room Condition : CE LINE Job No. : 10748RG Test Mode : BLE

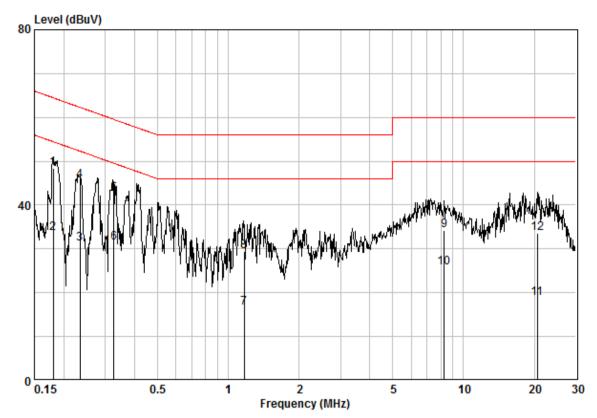
		Freq	Cable Loss	LISN Factor	Read Level		Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	@	0.15240	0.02	9.59	41.79	51.40	65.87	-14.47	QP
2		0.15240	0.02	9.59	27.53	37.14	55.87	-18.73	AVERAGE
3		0.18738	0.02	9.60	24.21	33.83	54.15	-20.33	AVERAGE
4		0.18738	0.02	9.60	37.74	47.36	64.15	-16.80	QP
5		0.40400	0.02	9.60	27.50	37.12	57.77	-20.65	QP
6	@	0.40400	0.02	9.60	22.28	31.90	47.77	-15.87	AVERAGE
7		1.210	0.03	9.61	6.65	16.28	46.00	-29.72	AVERAGE
8		1.210	0.03	9.61	14.65	24.29	56.00	-31.71	QP
9		6.988	0.08	9.68	21.36	31.11	60.00	-28.89	QP
10		6.988	0.08	9.68	14.70	24.46	50.00	-25.54	AVERAGE
11		14.213	0.16	9.75	8.21	18.12	50.00	-31.88	AVERAGE
12		14.213	0.16	9.75	17.91	27.82	60.00	-32.18	QP



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Neutral line:



Site : Shielding Room Condition : CE NEUTRAL Job No. : 10748RG Test Mode : BLE

			Cable	LISN	Read		Limit	Over	
		Freq	Loss	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	@	0.18061	0.02	9.61	38.67	48.30	64.46	-16.16	QP
2		0.18061	0.02	9.61	23.88	33.51	54.46	-20.95	AVERAGE
3		0.23396	0.02	9.61	21.49	31.12	52.31	-21.19	AVERAGE
4	@	0.23396	0.02	9.61	35.98	45.62	62.31	-16.69	QP
5		0.32692	0.02	9.62	32.79	42.43	59.53	-17.10	QP
6		0.32692	0.02	9.62	21.76	31.40	49.53	-18.13	AVERAGE
7		1.167	0.03	9.65	6.92	16.60	46.00	-29.40	AVERAGE
8		1.167	0.03	9.65	19.79	29.47	56.00	-26.53	QP
9		8.280	0.11	9.76	24.25	34.12	60.00	-25.88	QP
10		8.280	0.11	9.76	15.83	25.70	50.00	-24.30	AVERAGE
11		20.595	0.17	10.01	8.52	18.69	50.00	-31.31	AVERAGE
12		20.595	0.17	10.01	23.36	33.53	60.00	-26.47	QP

Notes:

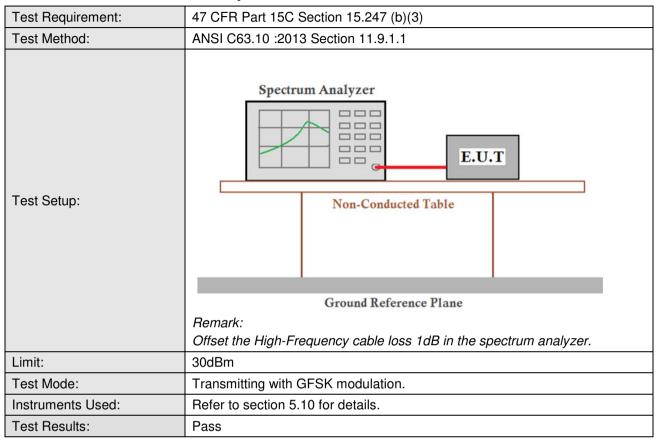
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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6.3 Conducted Peak Output Power



Measurement Data

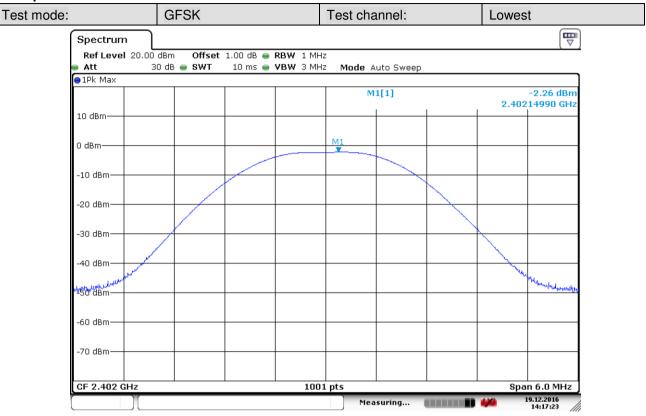
GFSK mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	-2.26	30.00	Pass			
Middle	-1.58	30.00	Pass			
Highest	-2.03	30.00	Pass			



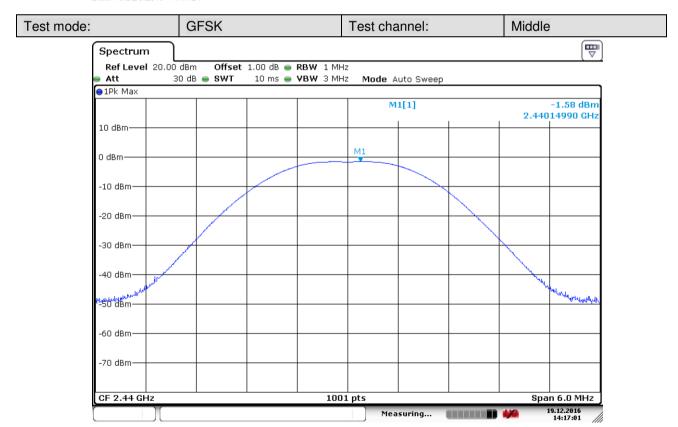
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Test plot as follows:



Date: 19.DEC.2016 14:17:24

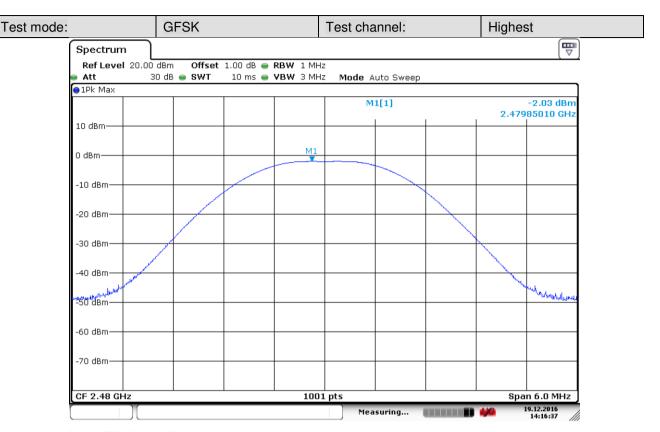


Date: 19.DEC.2016 14:17:01



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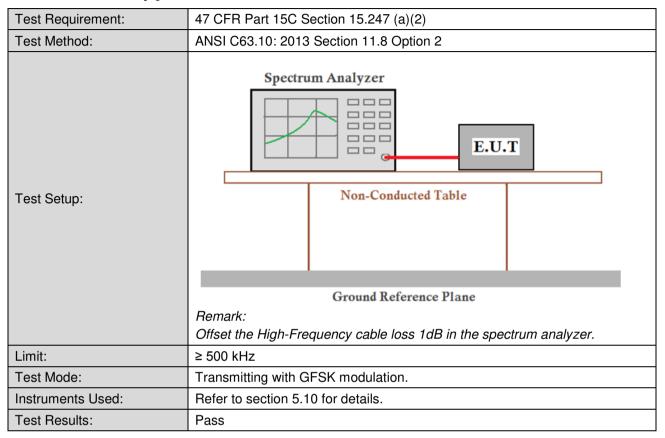
Date: 19.DEC.2016 14:16:37



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6.46dB Occupy Bandwidth



Measurement Data

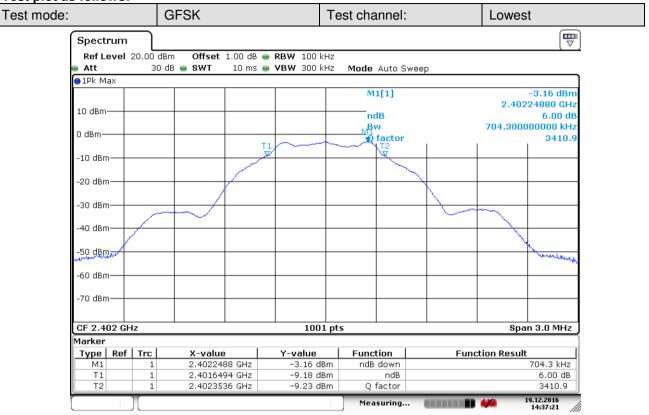
GFSK mode							
Test channel	6dB Occupy Bandwidth (kHz)	Limit (kHz)	Result				
Lowest	704.3	≥500	Pass				
Middle	Middle 701.3		Pass				
Highest	710.3	≥500	Pass				



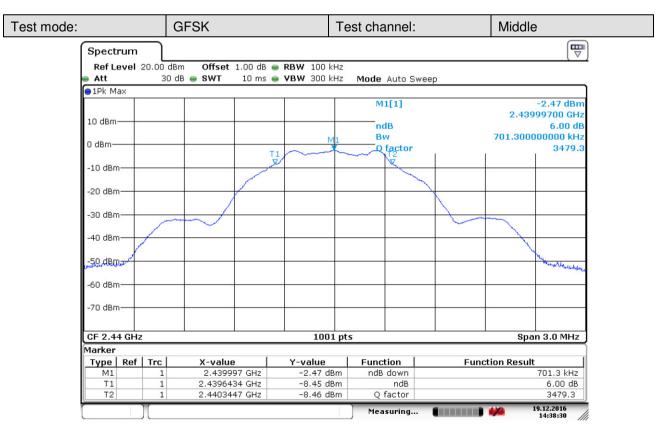
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Test plot as follows:



Date: 19.DEC.2016 14:37:22



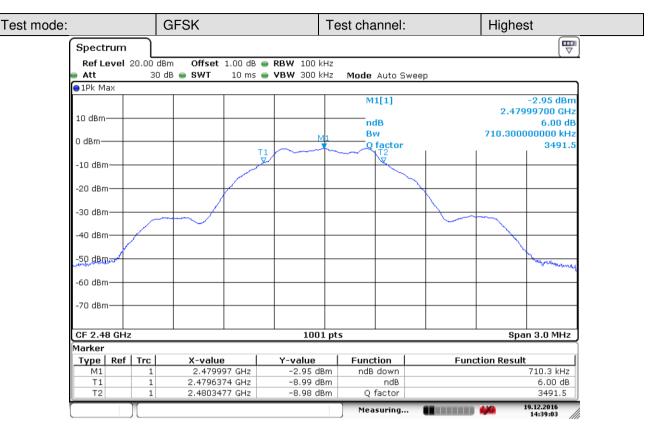
Date: 19.DEC.2016 14:38:31

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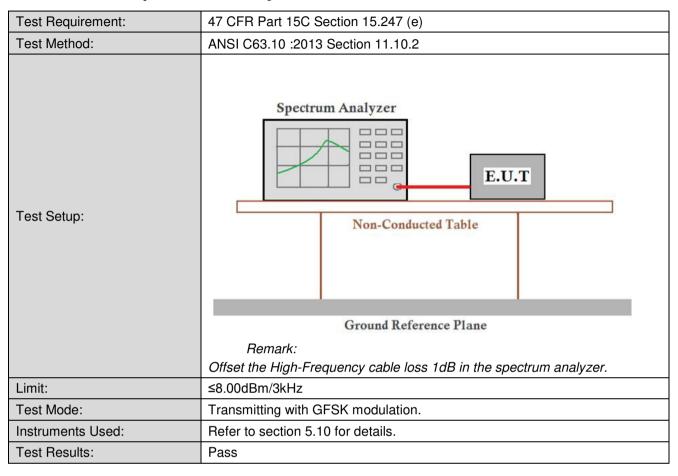
Date: 19.DEC.2016 14:39:04



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6.5 Power Spectral Density



Measurement Data

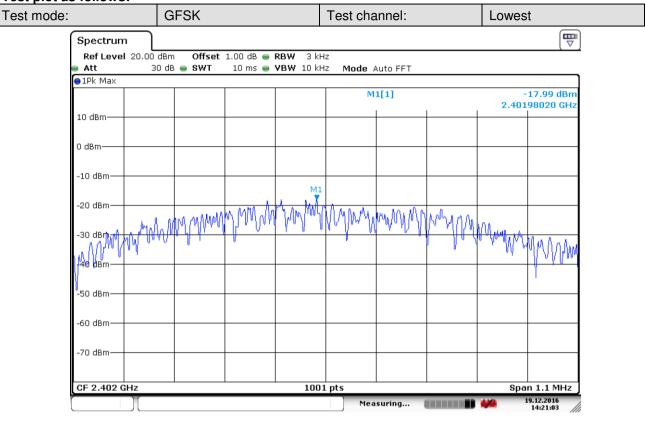
Wicasarcinicit Data								
	GFSK mode							
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result					
Lowest	-17.99	≤8.00	Pass					
Middle	-17.26	≤8.00	Pass					
Highest	-17.70	≤8.00	Pass					



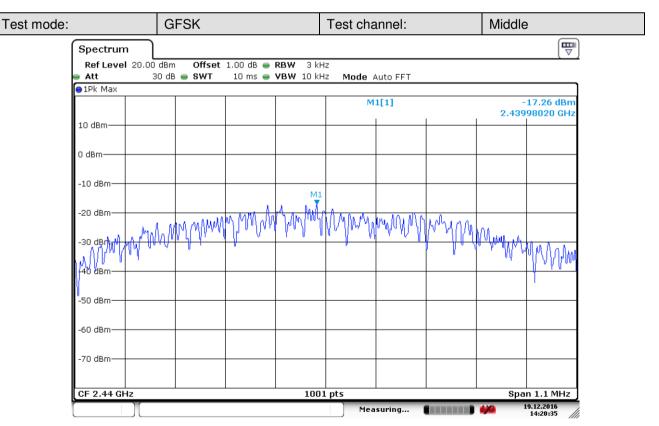
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Test plot as follows:



Date: 19.DEC.2016 14:21:04

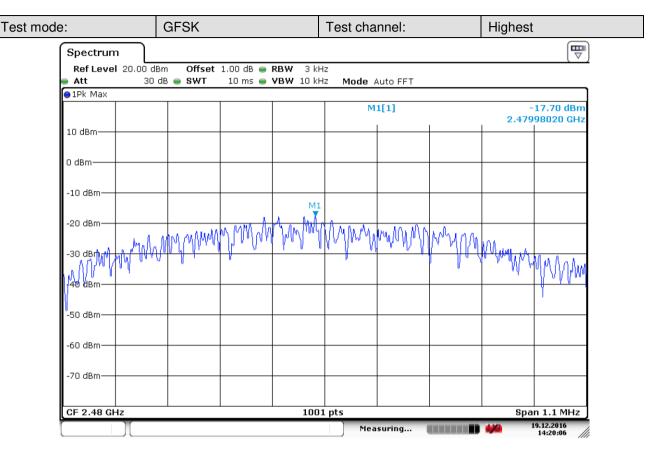


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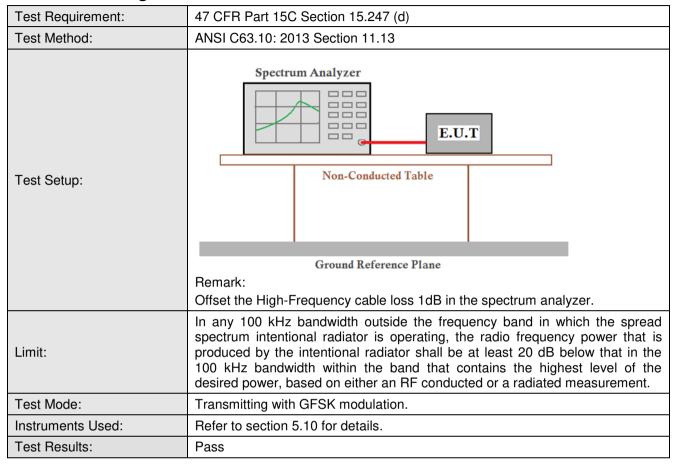
Date: 19.DEC.2016 14:20:06



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6.6 Band-edge for RF Conducted Emissions

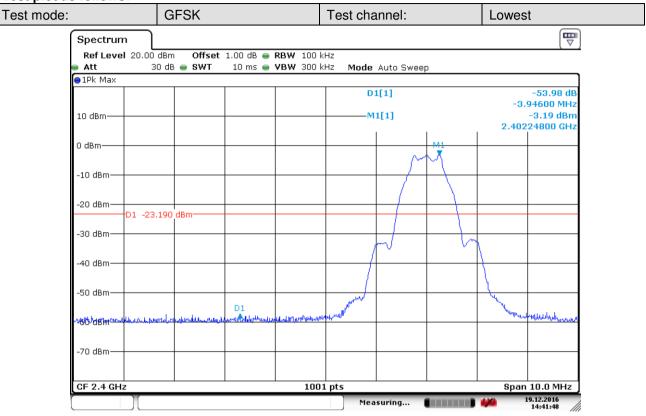




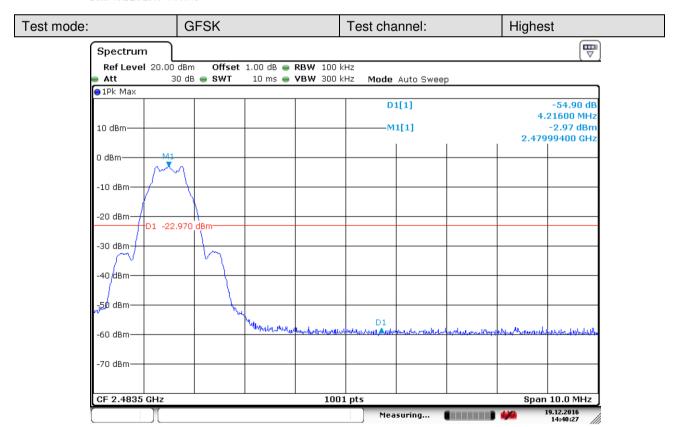
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Test plot as follows:



Date: 19.DEC.2016 14:41:48



Date: 19.DEC.2016 14:40:26



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6.7 Spurious RF Conducted Emissions

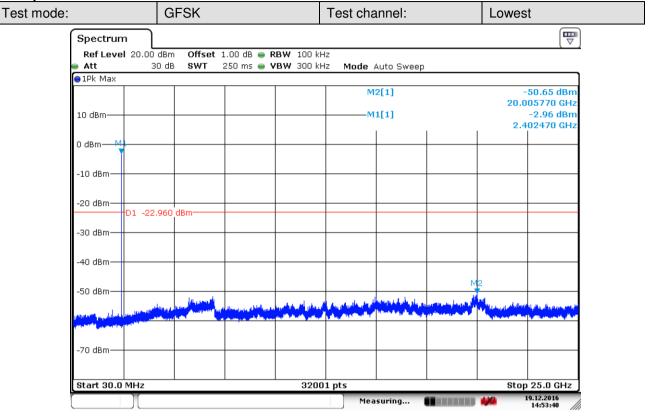
Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10: 2013 Section 11.11			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:			
	Offset the High-Frequency cable loss 1dB in the spectrum analyzer.			
Limit:	In any 100 kHz bandwidth outside 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			



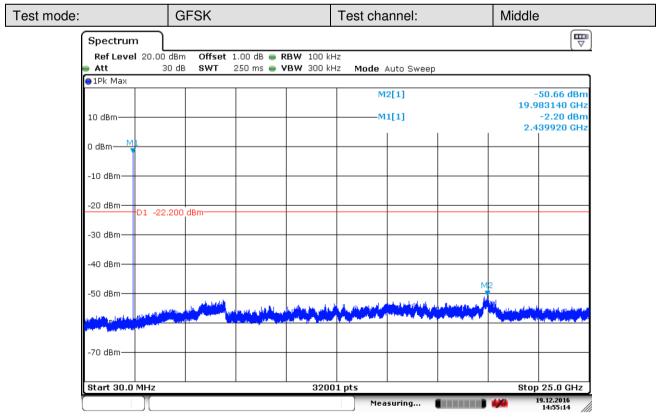
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Test plot as follows:



Date: 19.DEC.2016 14:53:40

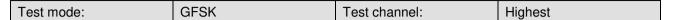


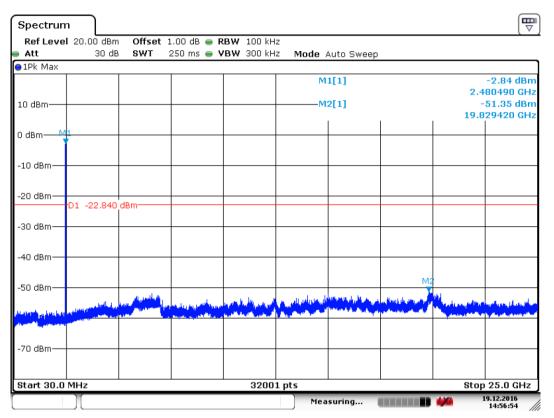
Date: 19.DEC.2016 14:55:14



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Date: 19.DEC.2016 14:56:55

Remark:

Scan from 9kHz to 25GHz, the disturbance below 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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6.8 Radiated Spurious Emission

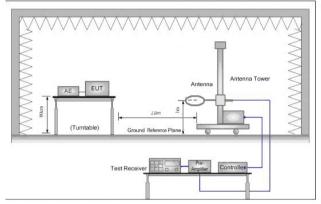
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Section 11.12							
Test Site:	Measurement Distance	: 3m	or 10m (Semi	-Anechoic C	Chamber)			
	Frequency		Detector	RBW	VBW		Remark	
	0.009MHz-0.090MH	Z	Peak	10kHz	30kHz		Peak	
	0.009MHz-0.090MH	z	Average	10kHz	30kHz		Average	
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	30kHz		Quasi-peak	
Receiver Setup:	0.110MHz-0.490MH	z	Peak	10kHz	30kHz		Peak	
neceiver Setup.	0.110MHz-0.490MH	Z	Average	10kHz	30kHz		Average	
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz		Quasi-peak	
	30MHz-1GHz		Quasi-peak	100 kHz	300kHz		Quasi-peak	
	Above 1GHz		Peak	1MHz	3MHz		Peak	
			Peak	1MHz	10Hz		Average	
	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark		Measurement distance (m)	
	0.009MHz-0.490MHz	2400/F(kHz)		-	-		300	
	0.490MHz-1.705MHz	24	4000/F(kHz)	-	-		30	
	1.705MHz-30MHz		30	-	-		30	
	30MHz-88MHz		100	40.0	Quasi-peak		3	
Limit:	88MHz-216MHz		150	43.5	Quasi-pe	ak	3	
	216MHz-960MHz		200	46.0	Quasi-pe	ak	3	
	960MHz-1GHz		500	54.0	Quasi-pe	ak	3	
	Above 1GHz		500	54.0	Average)	3	
	Note: 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:



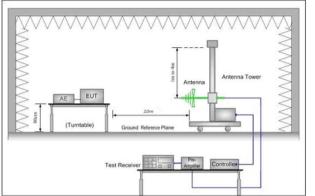


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

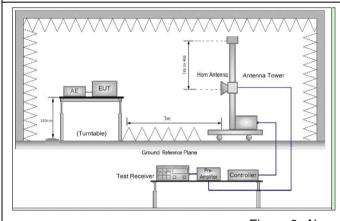


Figure 3. Above 1 GHz

measurement.

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 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
- 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.
- 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

Test Procedure:

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	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 lowes 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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6.8.1 Radiated Emission below 1GHz

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

 L_3 : Level @ 3m distance. Unit: uV/m; L_{10} : Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

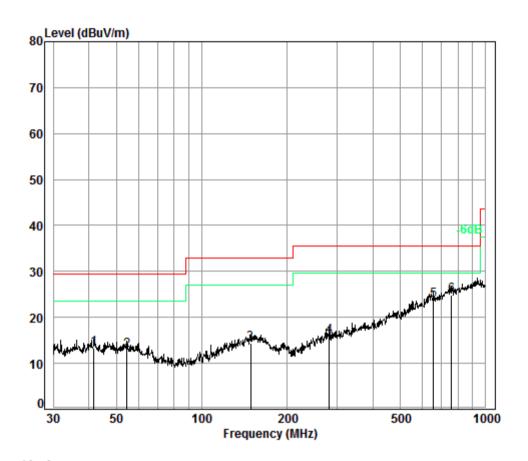
Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Over Limit (dB)	Ant. Polarization
41.71	13.30	4.62	15.41	23.76	40.00	-16.24	V
54.64	12.87	4.40	14.67	23.33	40.00	-16.67	V
148.96	14.34	5.21	17.37	24.80	43.50	-18.70	V
281.01	15.93	6.26	20.86	26.39	46.00	-19.61	V
654.23	23.68	15.28	50.92	34.14	46.00	-11.86	V
758.04	24.77	17.32	57.73	35.23	46.00	-10.77	V
41.86	13.70	4.84	16.14	24.16	40.00	-15.84	Н
59.65	13.26	4.60	15.34	23.72	40.00	-16.28	Н
144.84	16.72	6.85	22.85	27.18	43.50	-16.32	Н
344.39	18.74	8.65	28.83	29.20	46.00	-16.80	Н
726.81	25.30	18.41	61.36	35.76	46.00	-10.24	Н
948.76	26.76	21.78	72.59	37.22	46.00	-8.78	Н



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30MHz~1GHz (QP)		
Test mode:	Charge + Transmitting	Vertical



Condition: 10m VERTICAL

Job No. : 10748RG

Test Mode: BLE

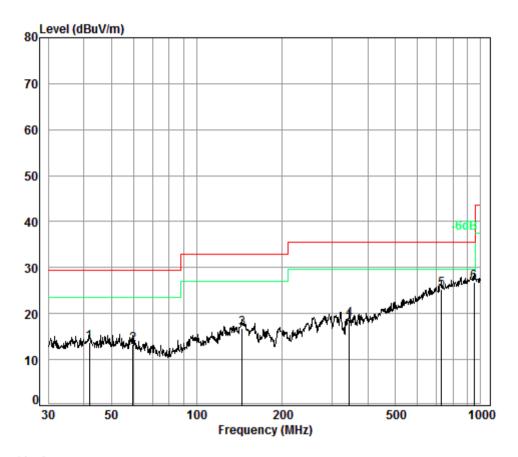
	Freq			Preamp Factor				Over Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	41.71	6.80	13.17	32.99	26.32	13.30	29.50	-16.20
2	54.64	6.99	12.40	32.97	26.45	12.87	29.50	-16.63
3	148.96	7.45	13.34	32.74	26.29	14.34	33.00	-18.66
4	281.01	8.00	12.19	32.62	28.36	15.93	35.60	-19.67
5	654.23	9.04	19.59	32.60	27.65	23.68	35.60	-11.92
6 pp	758.04	9.20	20.86	32.60	27.31	24.77	35.60	-10.83



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Test mode: Charge + Transmitting	Horizontal
----------------------------------	------------



Condition: 10m HORIZONTAL

: 10748RG Job No. Test Mode: BLE

1 2

3

4

5

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Freq Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 41.86 6.80 13.16 32.99 26.73 13.70 29.50 -15.80 59.65 7.00 12.03 32.95 27.18 13.26 29.50 -16.24 144.84 7.43 13.08 32.75 28.96 16.72 33.00 -16.28 344.39 8.22 13.74 32.60 29.38 18.74 35.60 -16.86 726.81 9.20 20.48 32.60 28.22 25.30 35.60 -10.30 6 pp 948.76 9.57 22.72 32.50 26.97 26.76 35.60 -8.84



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6.8.2 Transmitter Emission above 1GHz

Test mode:	C	SFSK	Test	channel:	Lowest	Lowest Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3759.672	32.95	7.73	37.98	44.92	47.62	74	-26.38	Vertical
4804.000	34.16	8.87	38.4	41.87	46.50	74	-27.50	Vertical
5769.698	34.57	9.91	38.35	44.15	50.28	74	-23.72	Vertical
7206.000	36.42	10.68	37.11	41.93	51.92	74	-22.08	Vertical
9608.000	37.52	12.5	35.1	37.46	52.38	74	-21.62	Vertical
12208.39	38.73	14.39	36.1	36.02	53.04	74	-20.96	Vertical
3584.372	32.45	7.66	37.96	44.08	46.23	74	-27.77	Horizontal
4804.000	34.16	8.87	38.4	42.61	47.24	74	-26.76	Horizontal
5811.590	34.59	10.03	38.34	44.26	50.54	74	-23.46	Horizontal
7206.000	36.42	10.68	37.11	41.04	51.03	74	-22.97	Horizontal
9608.000	37.52	12.5	35.1	37.76	52.68	74	-21.32	Horizontal
12279.260	38.77	14.33	36.27	36.84	53.67	74	-20.33	Horizontal

Test mode:		GFSK	Tes	t channel:	Middle	Re	mark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Limit	Polarization
3786.970	33.03	7.74	37.98	43.67	46.46	74	-27.54	Vertical
4880.000	34.29	8.97	38.44	42.55	47.37	74	-26.63	Vertical
6069.413	34.76	10.47	38.23	43.45	50.45	74	-23.55	Vertical
7320.000	36.37	10.72	37.01	41.62	51.70	74	-22.30	Vertical
9760.000	37.55	12.58	35.02	37.56	52.67	74	-21.33	Vertical
12297.040	38.78	14.31	36.31	36.83	53.61	74	-20.39	Vertical
3786.970	33.03	7.74	37.98	44.14	46.93	74	-27.07	Horizontal
4880.000	34.29	8.97	38.44	41.47	46.29	74	-27.71	Horizontal
6078.201	34.76	10.46	38.22	43.31	50.31	74	-23.69	Horizontal
7320.000	36.37	10.72	37.01	40.97	51.05	74	-22.95	Horizontal
9760.000	37.55	12.58	35.02	37.39	52.50	74	-21.50	Horizontal
12350.530	38.81	14.27	36.44	37.04	53.68	74	-20.32	Horizontal



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Test mode:		GFSK	Tes	t channel:	Highest	Re	mark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Limit	Polarization
3842.163	33.18	7.76	37.98	44.92	47.88	74	-26.12	Vertical
4960.000	34.43	9.09	38.48	42.77	47.81	74	-26.19	Vertical
6087.002	34.77	10.45	38.21	43.13	50.14	74	-23.86	Vertical
7440.000	36.32	10.77	36.9	41.32	51.51	74	-22.49	Vertical
9920.000	37.58	12.67	34.94	36.7	52.01	74	-21.99	Vertical
12102.870	38.66	14.47	35.85	36.22	53.50	74	-20.50	Vertical
3814.467	33.1	7.75	37.98	44.73	47.60	74	-26.40	Horizontal
4960.000	34.43	9.09	38.48	42.57	47.61	74	-26.39	Horizontal
6202.582	34.87	10.3	38.1	43.62	50.69	74	-23.31	Horizontal
7440.000	36.32	10.77	36.9	41.41	51.60	74	-22.40	Horizontal
9920.000	37.58	12.67	34.94	37.32	52.63	74	-21.37	Horizontal
12208.390	38.73	14.39	36.1	36.74	53.76	74	-20.24	Horizontal

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 above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. 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.

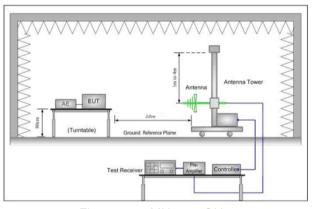


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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 11.12						
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m or 10m (Semi-Anechoic 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 1GHz	54.0	Average Value					
	Above IGHZ	74.0	Peak Value					
Test Setup:								



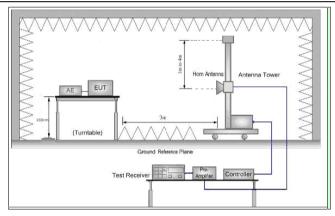


Figure 1. 30MHz to 1GHz

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 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.

Test Procedure:

- 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 the worst case.

Repeat above procedures until all frequencies measured was complete

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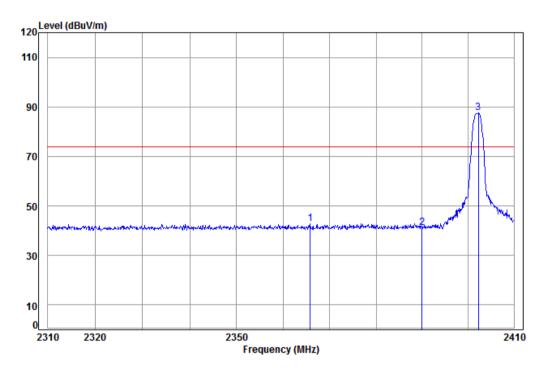
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Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

Test plot as follows:

Worse case mode:	GFSK	Test channel:	Lowest	Remark:	Peak	Vertical
TTOICO CACO IIICACI	G. C. C	1 001 0114111011			· oan	



Condition: 3m VERTICAL Job No: : 10748RG

Mode: : 2402 Bandedge

: BLE

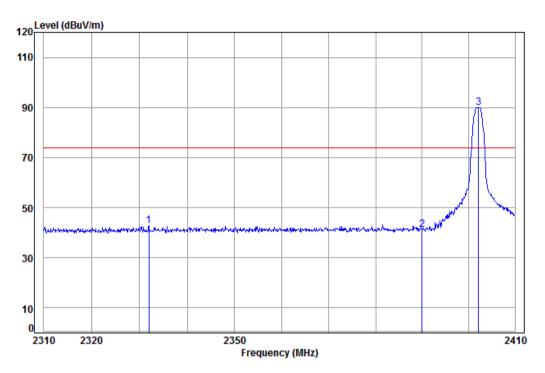
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2365.778	5.32	29.00	37.96	46.58	42.94	74.00	-31.06	
2	2390.000	5.34	29.08	37.96	44.89	41.35	74.00	-32.65	
3 рр	2402.250	5.35	29.11	37.96	90.99	87.49	74.00	13.49	



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Worse case mode: GFSK Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 10748RG

Mode: : 2402 Bandedge

: BLE

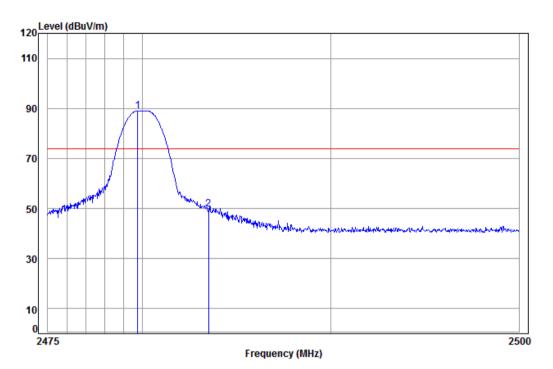
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2331.934	5.29	28.90	37.97	46.57	42.79	74.00	-31.21	
2	2390.000	5.34	29.08	37.96	44.77	41.23	74.00	-32.77	
3 рр	2402.148	5.35	29.11	37.96	93.57	90.07	74.00	16.07	



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Worse case mode:	GFSK	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL Job No: : 10748RG

Mode: : 2480 Bandedge

: BLE

Cable Ant Preamp Read Limit Over
Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB

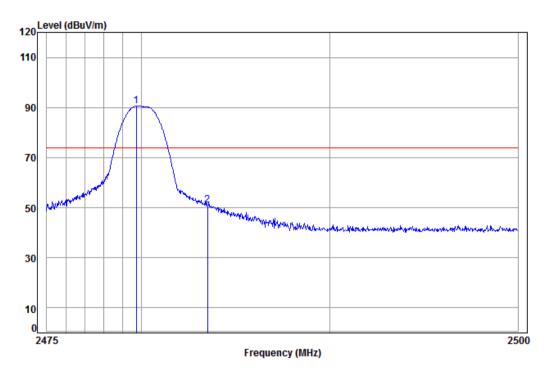
1 pp 2479.756 5.41 29.34 37.95 92.26 89.06 74.00 15.06
2 2483.500 5.41 29.35 37.95 52.85 49.66 74.00 -24.34



Report No.: SZEM161201074803

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Worse case mode:	GFSK	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No: : 10748RG

Mode: : 2480 Bandedge

: BLE

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
 2479.731 2483.500								

Note

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

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1612010748RG.