

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057

Telephone:	+86 (0) 755 2601 2053
Fax:	+86 (0) 755 2671 0594
Email:	ee.shenzhen@sgs.com

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## FCC REPORT

	Test Result:
)-24	Date of Issue:
9-11 to 2017-10-24	Date of Test:
9-08	Date of Receipt:
58074 D01 558074 D01 DTS Meas Guidance v04 63.10 2013	Test Method
Part 15, Subpart C (2015)	Standards:
V-W09	FCC ID:
El	Trade Mark:
09	Model No.(EUT):
El MediaPad M3 Lite 10 wp	Product Name:
ECHNOLOGY CO., LTD	Factory:
Technologies Co., Ltd.	Manufacturer:
Technologies Co., Ltd.	Applicant:
708009260RG	Application No:
SZEM1708009260RG	

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

Authorized Signature:

Derele young

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	Date	Modifier	Remark
01		2017-10-24		Original

Authorized for issue by:		
Tested By	Mike Mu	2017-10-24
	(Mike Hu) /Project Engineer	Date
Checked By	John Hing	2017-10-24
	(Jim Huang) /Reviewer	Date



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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 Emissions	47 CFR Part 15, Subpart C Section 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



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## 5 General Information

### **5.1 Client Information**

Applicant:	Huawei Technologies Co., Ltd.	
Address of Applicant: Administration Building, Headquarters of Huawei Technologies (Bantian, Longgang District, Shenzhen, 518129, P.R.C		
Manufacturer:	Huawei Technologies Co., Ltd.	
Address of Manufacturer:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C	
Factory:	DBG TECHNOLOGY CO., LTD	
Address of Factory:	No.5, Yongda Road, Xiangshui River Industrial Area, Daya Bay, Huizhou, Guangdong, China	

### **5.2 General Description of EUT**

Product Name:	HUAWEI MediaPad M3 Lite 10 wp
Model No.:	HDN-W09
Trade Mark:	HUAWEI
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth V4.2 Dual-mode (This test report is for BLE)
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Portable production
Antenna Type:	Monopole
Antenna Gain:	0.2dBi
Power Supply	DC3.8V (1 x 3.8V Rechargeable battery) 6660mAh Battery: Charge by DC 4.35V
AC adaptor:	Model: HW-050200U01/HW-059200UHQ Input: AC100-240V 50/60Hz 0.5A Output: DC5.0V 2A or 9V 2A



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Operation F	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 –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.

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



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### 5.11 Equipment List

	Conducted Emission								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)			
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017-05-10	2018-05-10			
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-10-09	2018-10-09			
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-14			
4	8 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T8- 02	EMC0120	2017-09-28	2018-09-28			
5	4 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T4- 02	EMC0121	2017-09-28	2018-09-28			
6	2 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T2- 02	EMC0122	2017-09-28	2018-09-28			
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2017-04-14	2018-04-14			
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-10-09	2018-10-09			

	RF connected test								
Item	Test Equipment	Manufacturer	Model No.	Model No. Inventory No.		Cal.Duedate (yyyy-mm-dd)			
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-10-09	2018-10-09			
2	Signal Analyzer	Rohde &Schwarz	FSV	W005-02	2017-03-06	2018-03-06			
3	Signal Generator	Rohde &Schwarz	SML03	SEM006-02	2017-04-14	2018-04-14			
4	Power Meter	Rohde &Schwarz	NRVS	SEM014-02	2017-10-09	2018-10-09			
5	Power Sensor	Agilent Technologies	U2021XA	SEM009-01	2017-10-09	2018-10-09			



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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	2017-05-10	2018-05-10		
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017-10-09	2018-10-09		
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	2017-04-14	2018-04-14		
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A		
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-10-09	2018-10-09		
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	2017-05-10	2018-05-10			
2	EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2017-04-14	2018-04-14			
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	2017-07-06	2018-07-06			
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	2017-05-10	2018-05-10		
2	EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-09	2017-07-19	2018-07-19		
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	2017-10-09	2018-10-09		
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14		
6	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2014-11-24	2017-11-24		
7	HornAntenna (26GHz-40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2015-02-12	2018-02-12		
8	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2017-10-09	2018-10-09		
9	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 0.2dBi.



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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			
Limit:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithr	n of the frequency.		J		
Test Procedure:	<ol> <li>The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol>					
Test Setup:	Shielding Room	AE USN2 + AC M Ground Reference Plane	Test Receiver			
Test Mode:	Transmitting with GFSK mode	ulation.				
Instruments Used:	Charge +Transmitting mode. Refer to section 5.10 for deta	ile				
Test Results:	Pass					
	レロン レン	f,-available on request or accessible at http://www.com/com/com/com/com/com/com/com/com/com/	<u>p://www.sgs.com/en/Term</u> s-and-Conditi	ions.aspx and, for		

### 6.2 Conducted Emissions

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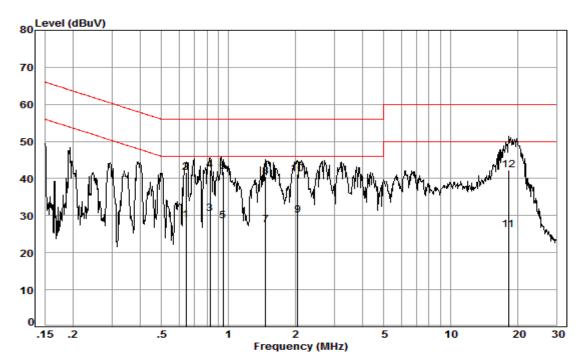
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#### **Measurement Data**

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: Line
Job No. : 09260RG
Test mode: d
```

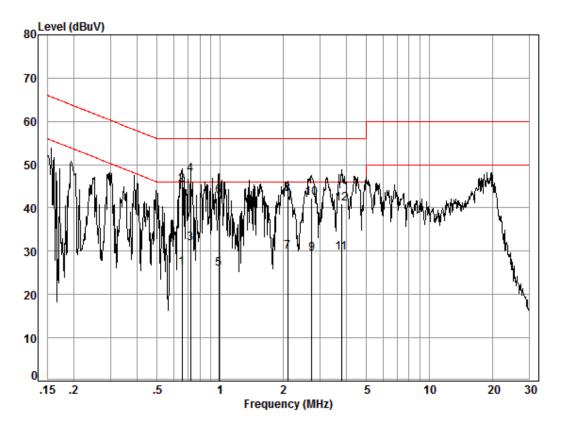
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.64	0.02	9.63	19.11	28.76	46.00	-17.24	Average
2	0.64	0.02	9.63	32.05	41.70	56.00	-14.30	QP
3	0.83	0.02	9.64	20.86	30.52	46.00	-15.48	Average
4	0.83	0.02	9.64	32.67	42.33	56.00	-13.67	QP
5	0.95	0.02	9.64	18.88	28.54	46.00	-17.46	Average
6	0.95	0.02	9.64	32.17	41.83	56.00	-14.17	QP
7	1.47	0.02	9.65	17.83	27.50	46.00	-18.50	Average
8	1.47	0.02	9.65	30.94	40.61	56.00	-15.39	QP
9	2.05	0.02	9.66	20.45	30.13	46.00	-15.87	Average
10	2.05	0.02	9.66	31.62	41.30	56.00	-14.70	QP
11	18.23	0.02	10.13	16.07	26.22	50.00	-23.78	Average
12	18.23	0.02	10.13	32.09	42.24	60.00	-17.76	QP

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Neutral line:



Site :	Shielding	Room
Condition:	Neutral	
Job No. :	09260RG	
Test mode:	d	

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.66	0.02	9.64	16.41	26.07	46.00	-19.93	Average
2	0.66	0.02	9.64	35.78	45.44	56.00	-10.56	QP
3	0.72	0.02	9.64	22.19	31.85	46.00	-14.15	Average
4	0.72	0.02	9.64	38.05	47.71	56.00	-8.29	QP
5	0.99	0.02	9.64	16.27	25.93	46.00	-20.07	Average
6	0.99	0.02	9.64	33.12	42.78	56.00	-13.22	QP
7	2.11	0.02	9.66	20.11	29.79	46.00	-16.21	Average
8	2.11	0.02	9.66	33.45	43.13	56.00	-12.87	QP
9	2.74	0.02	9.66	19.64	29.32	46.00	-16.68	Average
10	2.74	0.02	9.66	32.57	42.25	56.00	-13.75	QP
11	3.80	0.02	9.69	19.98	29.69	46.00	-16.31	Average
12	3.80	0.02	9.69	31.32	41.03	56.00	-14.97	QP

Notes:

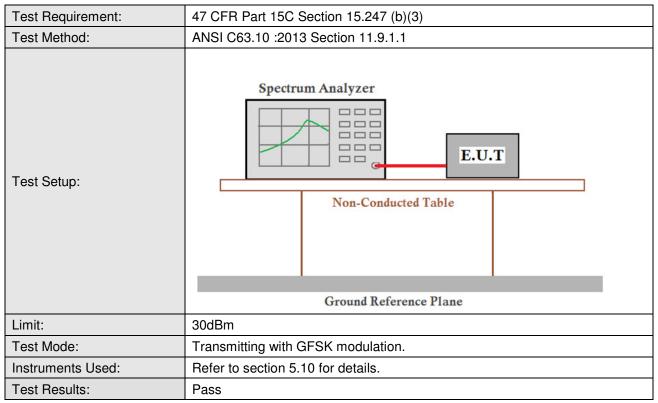
1. The following Quasi-Peak and Average measurements were performed on the EUT:

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	6.44	30.00	Pass				
Middle	6.09	30.00	Pass				
Highest	5.22	30.00	Pass				



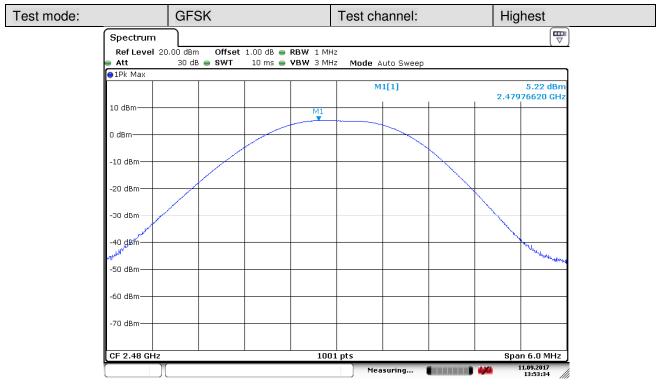
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#### Test plot as follows: Test mode: GFSK Test channel: Lowest **T** Spectrum Ref Level 20.00 dBm Offset 1.00 dB 🖷 RBW 1 MHz 10 ms 👄 VBW 3 MHz 30 dB 👄 SWT Att Mode Auto Sweep ●1Pk View M1[1] 6.44 dBn 2.40177220 GHz 10 dBm· 0 dBm -10 dBm -20 dBm· -30 dBm -40 d8m -50 dBm -60 dBm -70 dBm· Span 6.0 MHz CF 2.402 GHz 1001 pts 11.09.2017 13:47:55 Measuring... ----Date: 11.SEP.2017 13:47:56 Test mode: GFSK Test channel: Middle ₩ Spectrum Ref Level 20.00 dBm Offset 1.00 dB 👄 RBW 1 MHz Att 30 dB 😑 SWT 10 ms 👄 VBW 3 MHz Mode Auto Sweep ◯1Pk View M1[1] 6.09 dBm 2.44013790 GHz 10 dBm-Y 0 dBm--10 dBm -20 dBm -30 dBm 40 dB -50 dBm -60 dBm -70 dBm-CF 2.44 GHz 1001 pts Span 6.0 MHz Measuring... 11.09.2017 13:52:16

Date: 11.SEP.2017 13:52:16



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Date: 11.SEP.2017 13:53:34



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### 6.4 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)				
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2				
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Limit:	≥ 500 kHz				
Test Mode:	Transmitting with GFSK modulation.				
Instruments Used:	Refer to section 5.10 for details.				
Test Results:	Pass				

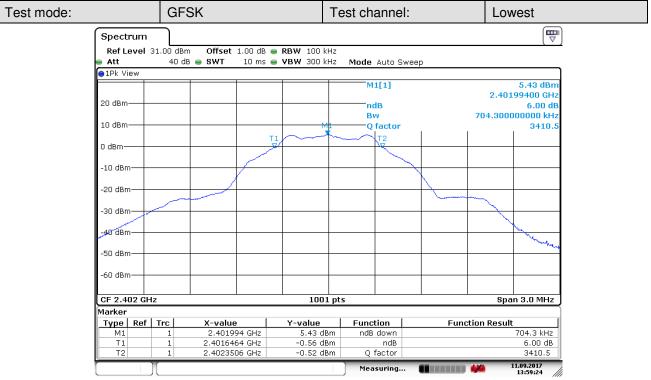
#### Measurement Data

	GFSK mode		
Test channel	6dB Occupy Bandwidth (kHz)	Limit (kHz)	Result
Lowest	704.3	≥500	Pass
Middle	701.3	≥500	Pass
Highest	713.3	≥500	Pass

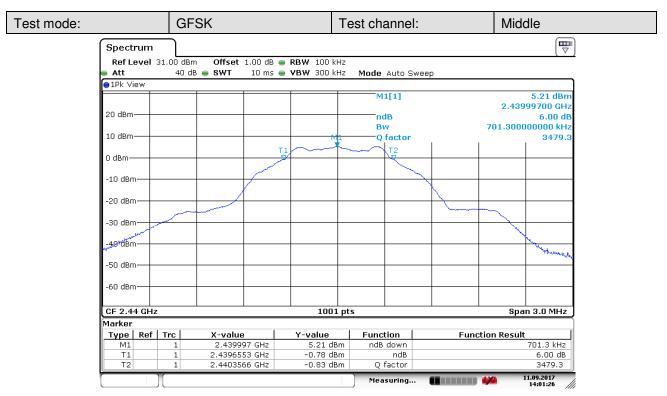


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#### Test plot as follows:



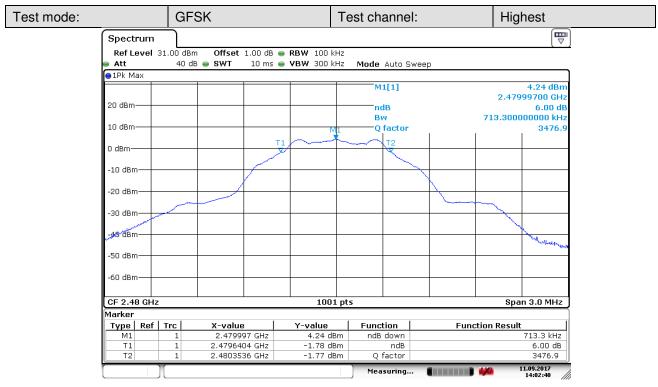
Date: 11.SEP.2017 13:59:25



Date: 11.SEP.2017 14:01:26



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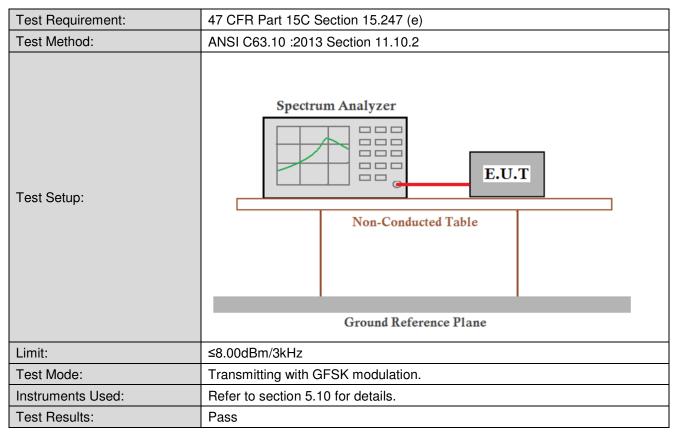


Date: 11.SEP.2017 14:02:41



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### **6.5 Power Spectral Density**

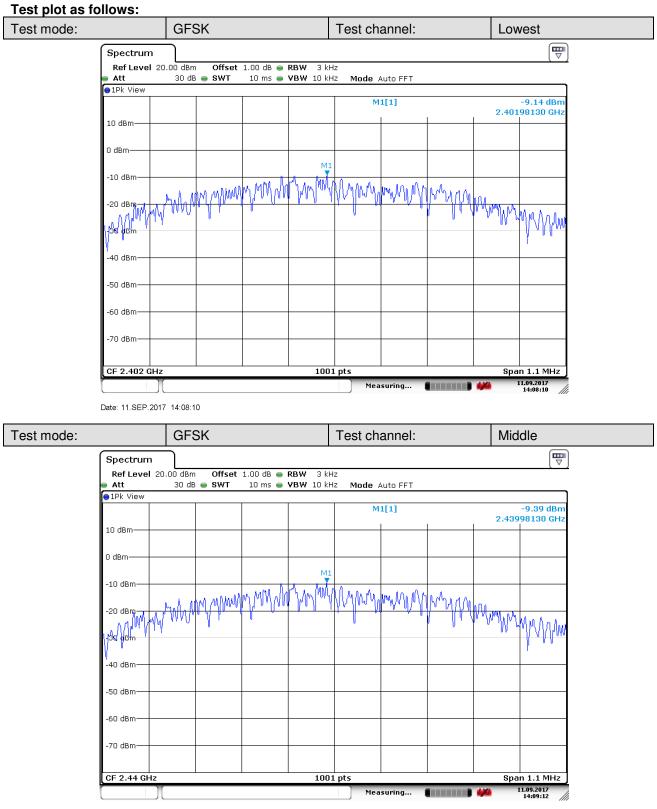


#### **Measurement Data**

	GFSK mode		
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-9.14	≤8.00	Pass
Middle	-9.39	≤8.00	Pass
Highest	-10.34	≤8.00	Pass



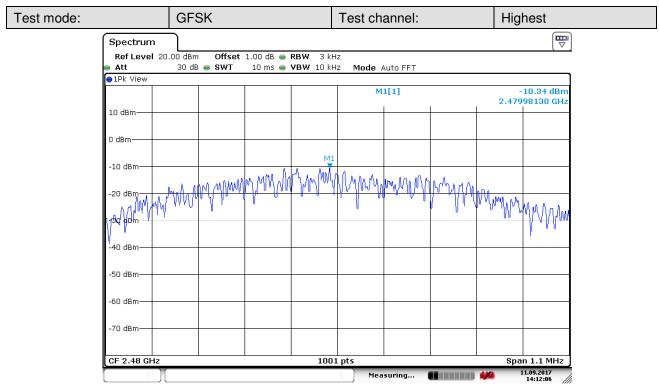
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Date: 11.SEP.2017 14:09:13



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Date: 11.SEP.2017 14:12:07



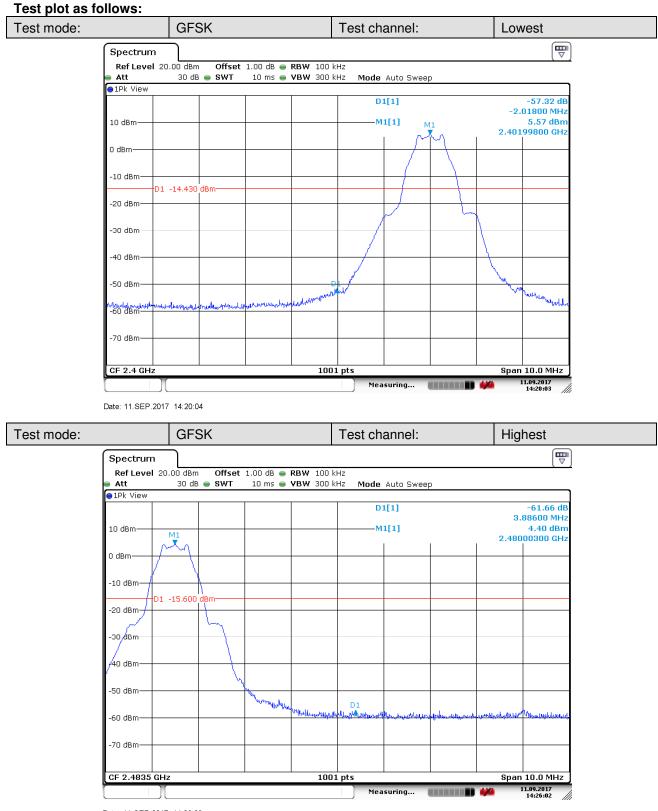
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Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10: 2013 Section 11.13				
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Limit:	In any 100 kHz bandwidth outside the frequency band 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				

#### 6.6 Band-edge for RF Conducted Emissions



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Date: 11.SEP.2017 14:26:03



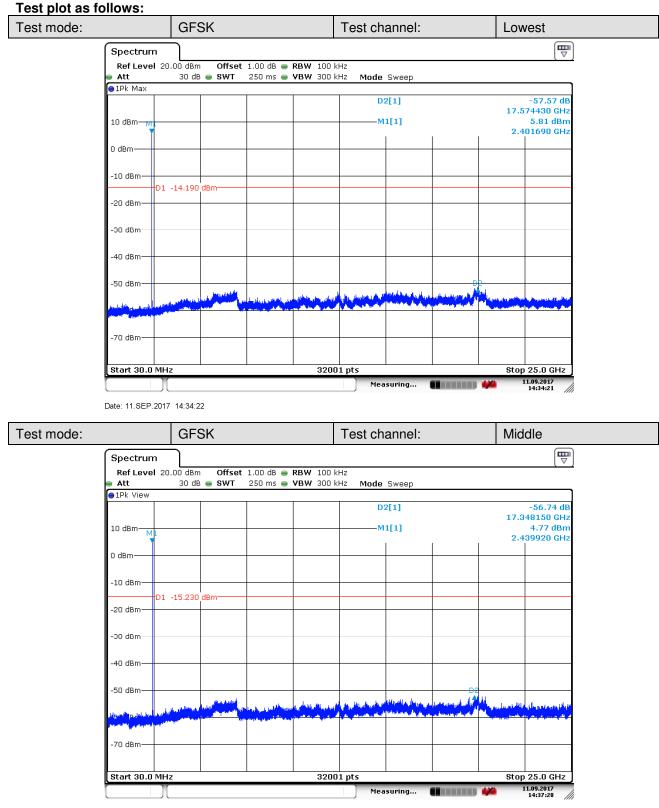
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#### 47 CFR Part 15C Section 15.247 (d) Test Requirement: Test Method: ANSI C63.10: 2013 Section 11.11 Spectrum Analyzer E.U.T 6 Test Setup: Non-Conducted Table **Ground Reference Plane** In any 100 kHz bandwidth outside the frequency band in which 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 Limit: 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

#### 6.7 Spurious RF Conducted Emissions



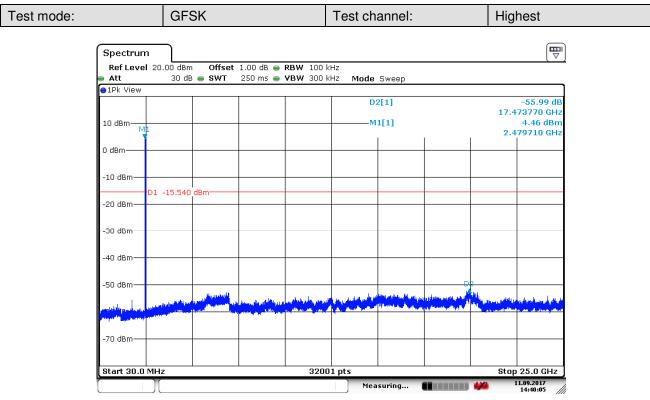
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Date: 11.SEP.2017 14:40:05

#### 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.



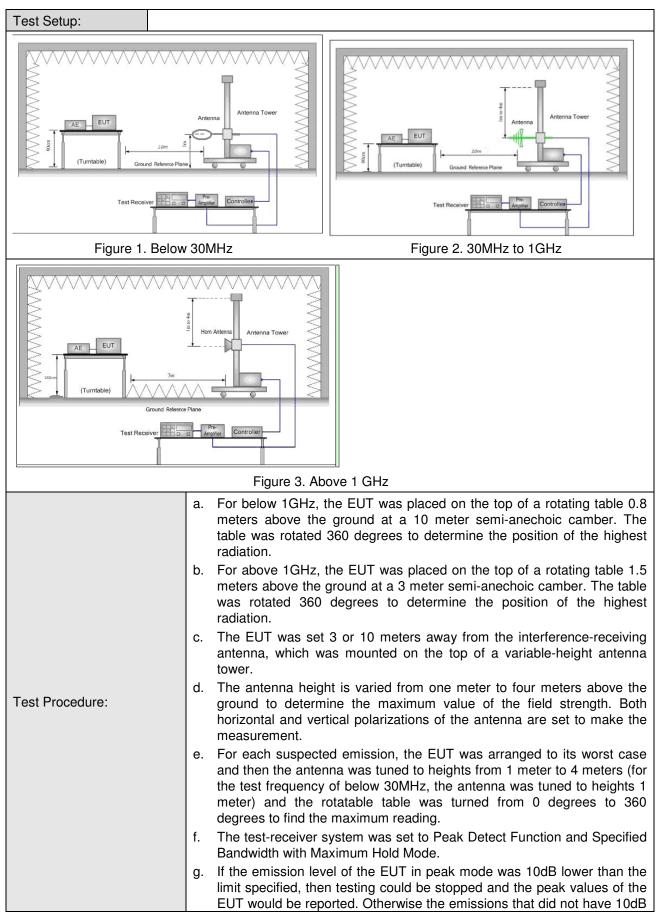
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		47 CFR Part 15C Section 15.209 and 15.205									
Test Requirement:											
Test Method:	ANSI C63.10 :2013 See										
Test Site:	Measurement Distance	: 3m	n or 10m (Sem	i-Anechoic (	Chamber)						
	Frequency		Detector	RBW	VBW		Remark				
	0.009MHz-0.090MHz		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				
			Peak	1MHz	3MHz		Peak				
	Above 1GHz		Peak	1MHz	10Hz		Average				
	Frequency		eld strength	Limit	Romark		Measurement				
			crovolt/meter)	(dBuV/m)			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-peak		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), U emissions is 20dB abov to the equipment under radiated by the device.	ve th	ne maximum p	ermitted ave	erage emis	sion	limit applicable				

### 6.8 Radiated Spurious Emission



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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 Toot Mada:	Transmitting with GFSK modulation.			
Exploratory Test Mode:	Charge + Transmitting mode.			
	Transmitting with GFSK modulation.			
Pretest the EUT at Charge + Transmitting mode,				
Final Test 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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#### 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<sub>3</sub>: Level @ 3m distance. Unit: uV/m;

L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D3: 3m distance. Unit: m

D10: 10m distance. Unit: m

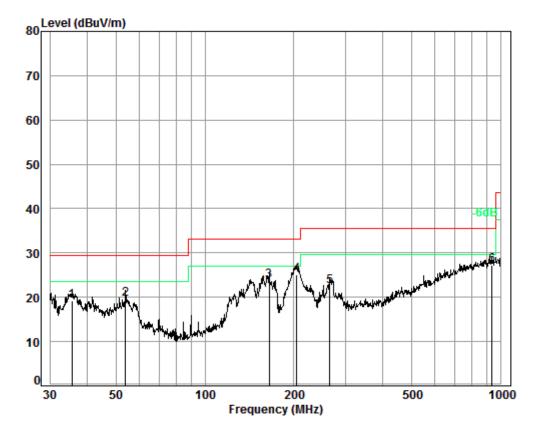
The level at 3m test distance is below:

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
35.50	19.29	9.22	30.72	29.75	40.00	-10.25	V
53.68	19.58	9.53	31.76	30.04	40.00	-9.96	V
164.91	23.72	15.35	51.15	34.18	43.50	-9.32	V
204.24	25.13	18.05	60.17	35.59	43.50	-7.91	V
263.82	22.37	13.14	43.79	32.83	46.00	-13.17	V
932.27	27.25	23.04	76.80	37.71	46.00	-8.29	V
42.45	15.77	6.14	20.48	26.23	40.00	-13.77	Н
54.07	16.89	6.99	23.30	27.35	40.00	-12.65	Н
166.65	20.48	10.57	35.23	30.94	43.50	-12.56	Н
272.28	28.36	26.18	87.27	38.82	46.00	-7.18	Н
663.47	24.19	16.20	54.00	34.65	46.00	-11.35	Н
968.93	27.39	23.42	78.05	37.85	54.00	-16.15	Н



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



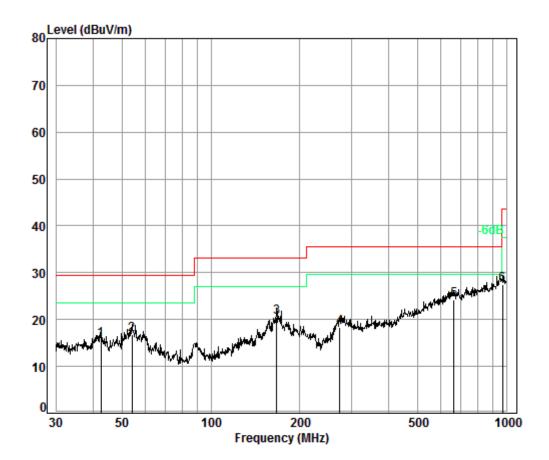
Condition: 10m VERTICAL Job No. : 09260RG Test Mode: BLE

	Freq			Preamp Factor				Over Limit
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 3 4 pp	35.50 53.88 164.91 204.24	6.98 7.50	12.46 12.91	32.98 32.98 32.73 32.69	33.12 36.04	19.58 23.72	29.50 33.00	-9.92 -9.28
5 6	263.82 932.27	7.92	11.62	32.63 32.50	35.46	22.37	35.60	-13.23



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



Condition: 10m HORIZONTAL Job No. : 09260RG Test Mode: BLE

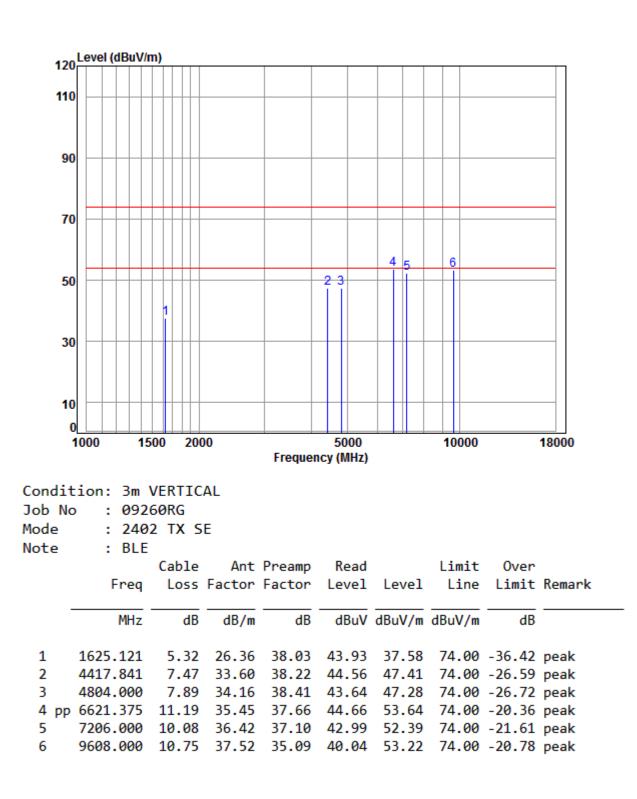
	Freq			Preamp Factor				Over Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	42.45	6.80	13.11	32.99	28.85	15.77	29.50	-13.73
2	54.07	6.98	12.45	32.98	30.44	16.89	29.50	-12.61
3	166.65	7.50	12.74	32.73	32.97	20.48	33.00	-12.52
4	272.28	7.96	11.92	32.62	31.10	18.36	35.60	-17.24
5 pp	663.47			32.60				
6	968.93	9.60	22.79	32.50	27.50	27.39	43.50	-16.11



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#### 6.8.2 Transmitter Emission above 1GHz

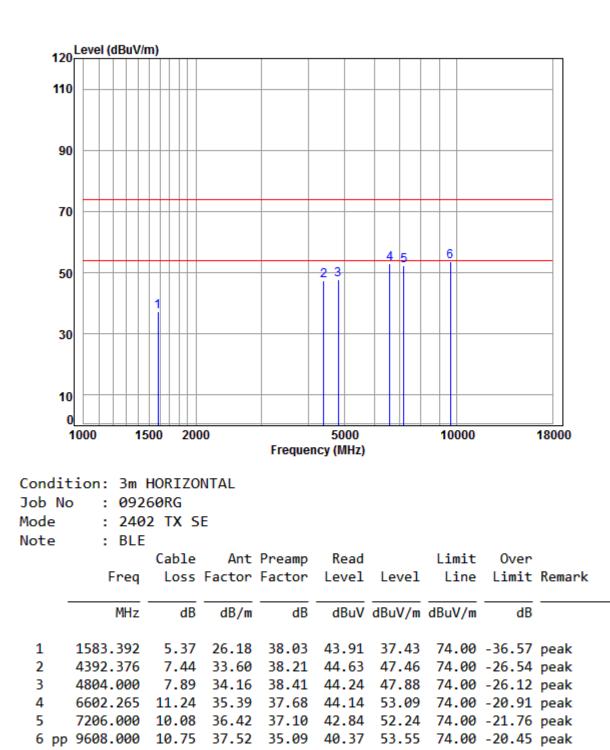
Test mode: GFSK Test channel: Lowest Remark: Peak Vertical						
	Test mode:	Test channel:	Lowest	Remark:	Peak	Vertical





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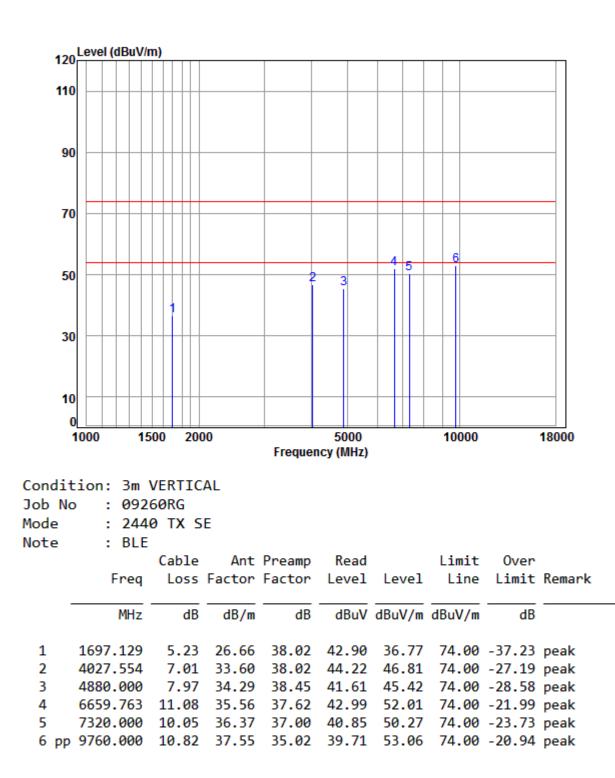
Test mode: GFSK	Test channel:	Lowest	Remark:	Peak	Horizontal
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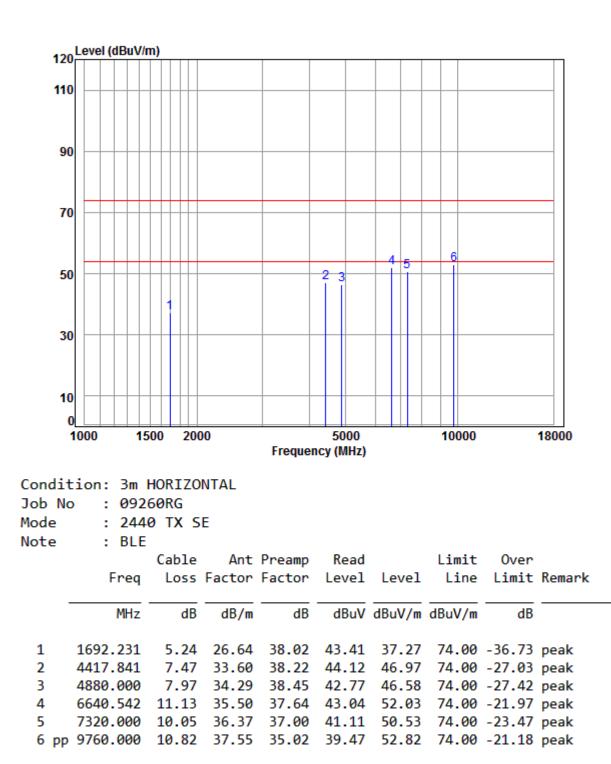
Test mode:	GFSK	Test channel:	Middle	Remark:	Peak	Vertical





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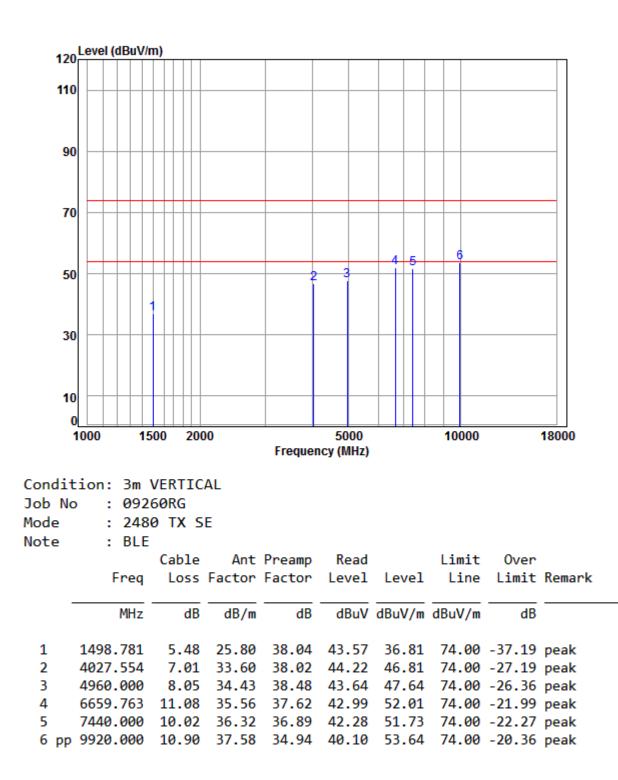
Test mode:	GFSK	Test channel:	Middle	Remark:	Peak	Horizontal





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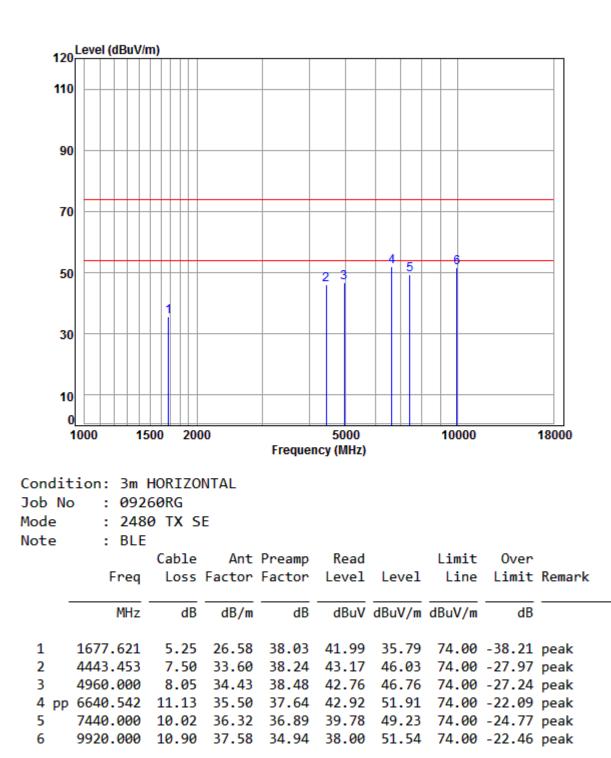
Test mode: GFSK	Test channel:	Highest	Remark:	Peak	Vertical
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Test mode: GFSK	Test channel:	Highest	Remark:	Peak	Horizontal
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Remark:

- 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 1	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	n or 10m (Semi-Anechoic 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						
		54.0	Average Value						
	Above 1GHz	74.0	Peak Value						

Test Setup:

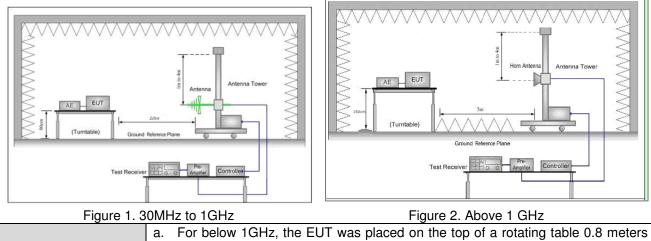


Figure 1. 3	SOIVIHZ	to 1GHz Figure 2. Above 1 GHz
	a. F	or below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters
	a	bove the ground at a 10 meter semi-anechoic camber. The table was rotated
	3	60 degrees to determine the position of the highest radiation.
	b. F	or above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters
	a	bove the ground at a 3 meter semi-anechoic camber. The table was rotated
		60 degrees to determine the position of the highest radiation.
		he EUT was set 3 or 10 meters away from the interference-receiving antenna,
		hich was mounted on the top of a variable-height antenna tower.
		he antenna height is varied from one meter to four meters above the ground
		o determine the maximum value of the field strength. Both horizontal and
		ertical polarizations of the antenna are set to make the measurement.
Test Procedure:		or each suspected emission, the EUT was arranged to its worst case and then
		ne antenna was tuned to heights from 1 meter to 4 meters and the rotatable
		able was turned from 0 degrees to 360 degrees to find the maximum reading.
		he test-receiver system was set to Peak Detect Function and Specified
		andwidth with Maximum Hold Mode.
	Ŭ	lace a marker at the end of the restricted band closest to the transmit
		equency to show compliance. Also measure any emissions in the restricted
		ands. Save the spectrum analyzer plot. Repeat for each power and
		nodulation for lowest and highest channel
		est the EUT in the lowest channel, the Highest channel
		he radiation measurements are performed in X, Y, Z axis positioning for
		ransmitting mode, and found the X axis positioning which it is the worst case.
This document is issued by the Company of		lepeat above procedures until all frequencies measured was complete.

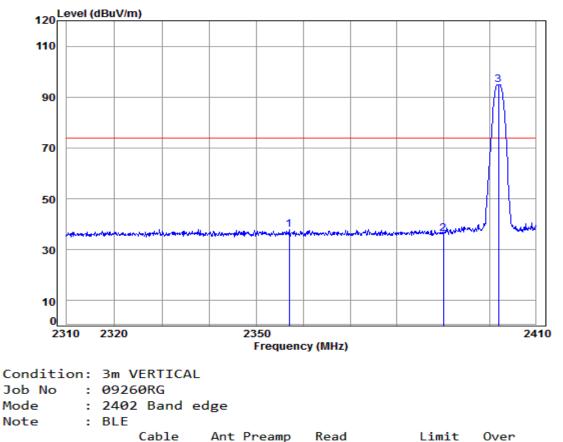


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Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used: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

#### Test plot as follows:

	C				1	
Worse case mode:	GFSK	Test channel:	Lowest	Remark:	Peak	Vertical

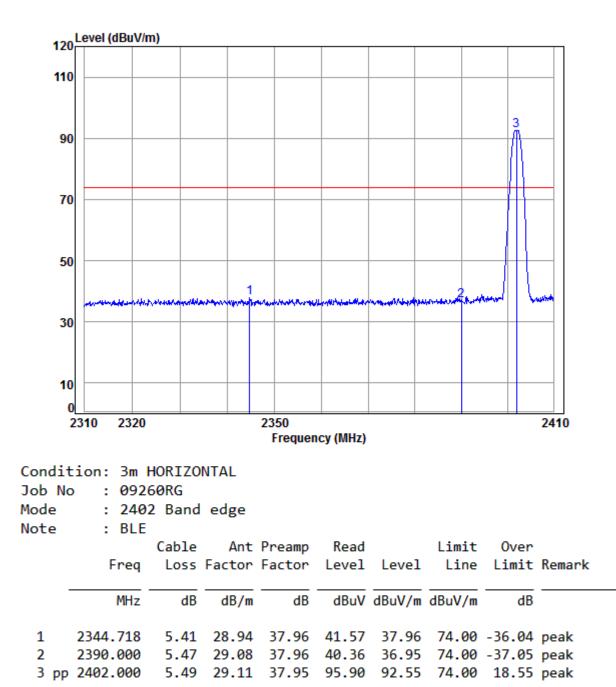


	Freq			Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2	2356.972 2390.000 2402.000	5.47	29.08	37.96	39.64	36.23	74.00	-37.77	peak	



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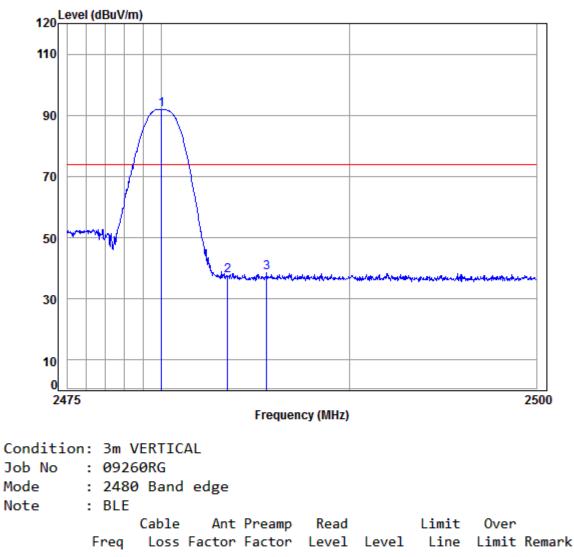
Worse case mode:	GFSK	Test channel:	Lowest	Remark:	Peak	Horizontal





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Worse case mode:	GFSK	Test channel:	Highest	Remark:	Peak	Vertical
		r oot on annon	riigiioot	rioniani	1 Our	Vortioui

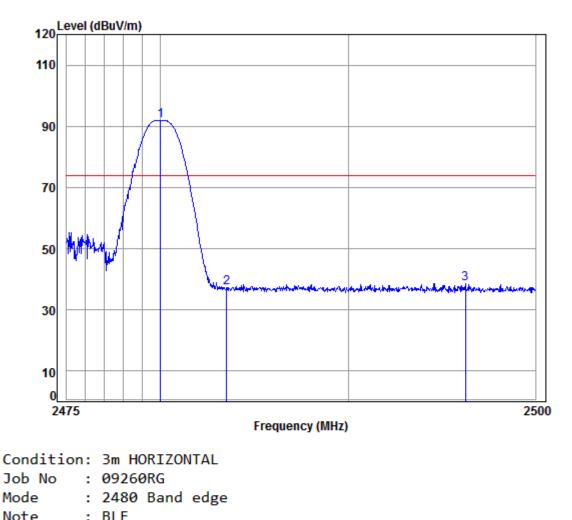


MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2480.000								•
2 2483.500 3 2485.594								•



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Maraa aaaa mada	OFOK	Testshampeli	Llighaat	Domorky	Deels	Llevizentel
Worse case mode:	GFSK	l est channel:	Highest	Remark:	Peak	Horizontal



Note	: DLE								
		Cable	Ant	Preamp	Read		Limit	0ver	
	Fred			Factor					Remark
	1104	2000	1 uc coi	1 uc coi	LEVEL	LUVUI	CINC	CTURE C	Relief R
-									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2480.000	5.59	29.34	37.95	94.99	91.97	74.00	17.97	peak
2	2483.500								
-									•
3	2496.259	5.62	29.39	37.95	41.66	38.72	74.00	-35.28	peak



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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 SZEM178009260RG.

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