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Report No.: SZEM120900527101
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FCC REPORT

Application No: SZEM1209005271RF
Applicant: iDT Technology Limited
Manufacturer: iDT Technology Limited
Factory: iDT Technology Limited
Product Name: Boot loadable platform with BLE
Model No.(EUT): RA900, SE900
FCC ID: NMTSSMART
Standards: 47 CFR Part 15, Subpart C (2011)
Date of Receipt: 2012-09-18
Date of Test: 2012-09-21 to 2012-09-27
Date of Issue: 2012-10-09

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

Authorized Signature:



Jack Zhang
EMC 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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	KDB558074 D01 ANSI C63.10 2009	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	KDB558074 D01 ANSI C63.10 2009	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	KDB558074 D01 ANSI C63.10 2009	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	KDB558074 D01 ANSI C63.10 2009	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15, Subpart C Section 15.247(b)(4)&TCB Exclusion List (7 July 2002)	ANSI C63.10 (2009)	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 ANSI C63.10 2009	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 ANSI C63.10 2009	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	KDB558074 D01 ANSI C63.10 2009	PASS
Band Edge (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	KDB558074 D01 ANSI C63.10 2009	PASS

Remark:

Model No.: RA900, SE900

The model RA900 was performed the full tests, the model SE900 was tested the Conducted Peak Output Power, Radiated Spurious Emissions for discrepancy, since the circuitry design, PCB layout, electrical components used, internal wiring and functions were identical for the above models, with difference being pressure sensor. Both models are use same main PCB for production, the difference is that RA900 need to SMT related components on the main PCB and sub-pcb for pressure sensor, the others are same as SE900.



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4 General Information

4.1 Client Information

Applicant:	iDT Technology Limited
Address of Applicant:	Block C, 9/F., Kaiser Estate, Phase 1, 41 Man Yue Street, Hung Hom, Kowloon, Hong Kong.
Manufacturer:	iDT Technology Limited
Address of Manufacturer:	Block C, 9/F., Kaiser Estate, Phase 1, 41 Man Yue Street, Hung Hom, Kowloon, Hong Kong.
Factory:	iDT Technology Limited
Address of Factory:	Chentian Industrial Estate Xixiang, BaoAn, Shenzhen, P.R.C

4.2 General Description of EUT

Name:	Boot loadable platform with BLE
Model No.:	RA900, SE900
Trade Mark:	Oregon scientific
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	4.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK
Number of Channel:	40
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	Portable production
Test Power Grade:	N/A
Test Software of EUT:	N/A
Antenna Type	Integral
Antenna Gain	-1.5dBi
Power Supply:	3.0V DC (3.0V x 1 "CR2032H" Button cell)
Test Voltage:	3.0V



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
3	2406MHz	13	2426MHz	23	2446MHz	33	2466MHz
4	2408MHz	14	2428MHz	24	2448MHz	34	2468MHz
5	2410MHz	15	2430MHz	25	2450MHz	35	2470MHz
6	2412MHz	16	2432MHz	26	2452MHz	36	2472MHz
7	2414MHz	17	2434MHz	27	2454MHz	37	2474MHz
8	2416MHz	18	2436MHz	28	2456MHz	38	2476MHz
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	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	2402MHz
The Middle channel	2440MHz
The Highest channel	2480MHz

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4.3 Test Environment

Operating Environment:	
Temperature:	26.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010mbar

4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 Test Location

All tests were performed at:

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

4.6 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.
- **VCCI**
The 3m Semi-anechoic chamber, Full-anechoic Chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197, G-416, 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)**
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.

4.10 Test Instruments List

RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2013-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2013-05-17
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2012-10-29
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2012-10-29
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2012-10-29
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2013-05-17
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2012-11-26
9	Coaxial cable	SGS	N/A	SEL0027	2013-05-29
10	Coaxial cable	SGS	N/A	SEL0189	2013-05-29
11	Coaxial cable	SGS	N/A	SEL0121	2013-05-29
12	Coaxial cable	SGS	N/A	SEL0178	2013-05-29
13	Band filter	Amindeon	82346	SEL0094	2013-05-17
14	Barometer	Chang Chun	DYM3	SEL0088	2013-05-24
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2012-10-23
16	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2012-10-27
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2013-05-17
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2012-10-23
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2013-06-04

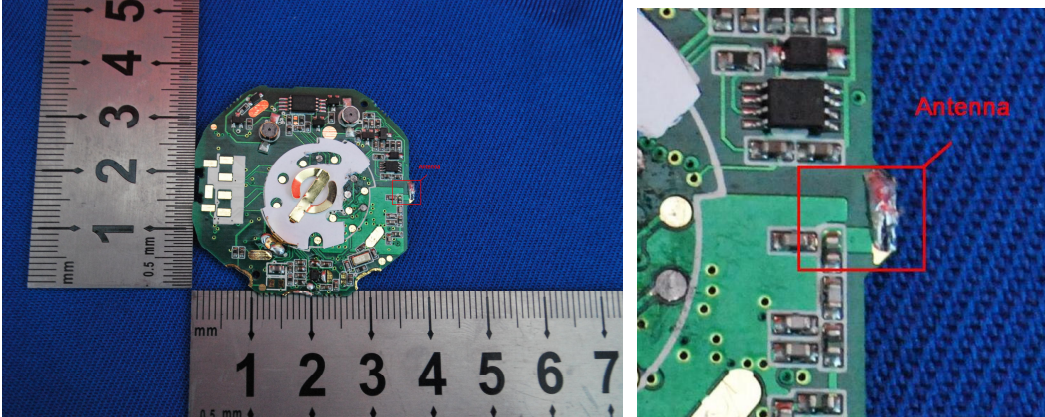


RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2012-10-23
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2012-10-27
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2012-10-23
4	Coaxial cable	SGS	N/A	SEL0178	2013-05-29
5	Coaxial cable	SGS	N/A	SEL0179	2013-05-29
6	Barometer	ChangChun	DYM3	SEL0088	2013-05-24
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2013-05-17
8	Band filter	amideon	82346	SEL0094	2013-05-17
9	POWER METER	R & S	NRVS	SEL0144	2012-10-23
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2013-05-17
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2012-11-29

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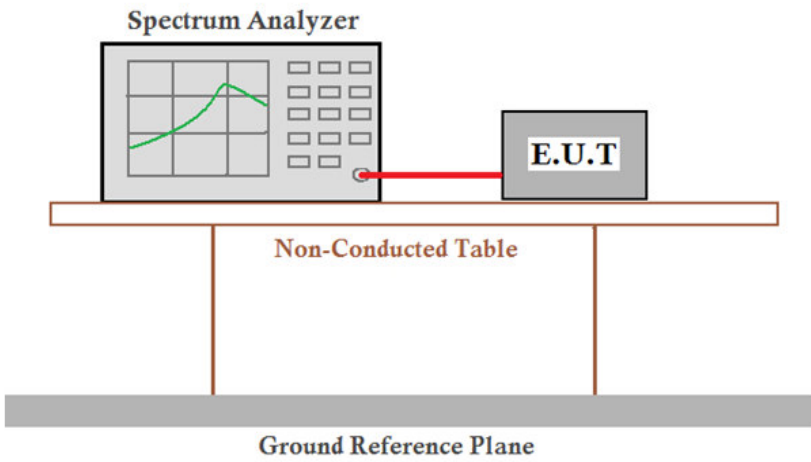
5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
<p>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.</p> <p>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.</p>	
EUT Antenna:	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1.5 dBi.</p>	
	



5.2 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2009 and KDB558074 D01
Test Setup:	 <p><i>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Limit:	30dBm
Test Mode:	Non-hopping transmitting with GFSK modulation
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

Measurement Data

RA900

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-0.81	30.00	Pass
Middle	-1.10	30.00	Pass
Highest	-1.71	30.00	Pass

SE900

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-0.28	30.00	Pass
Middle	-0.44	30.00	Pass
Highest	-0.83	30.00	Pass

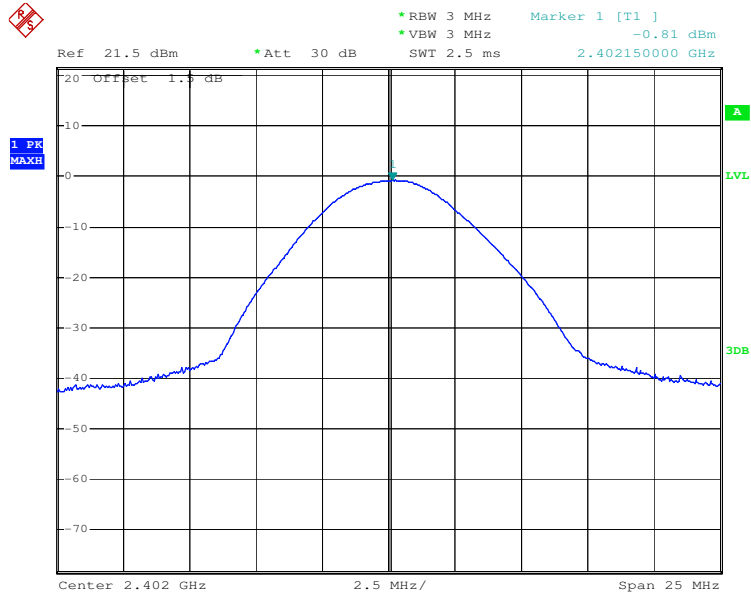
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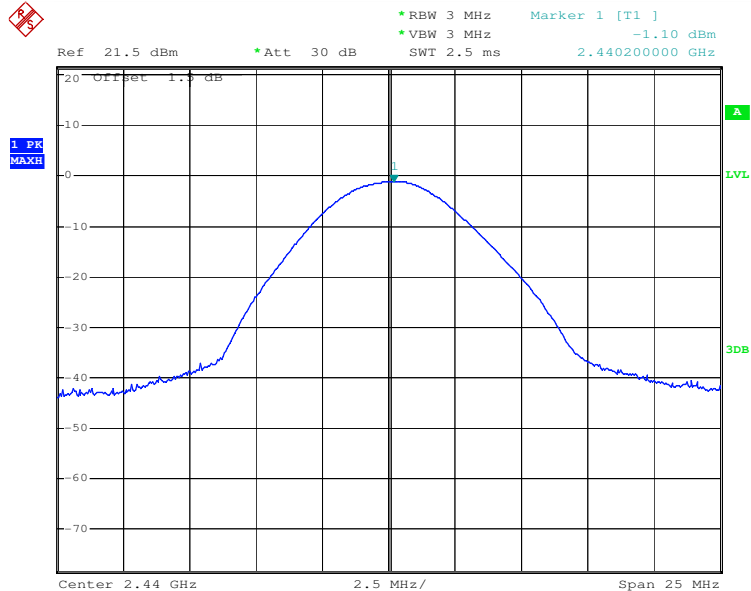
Test plot as follows:

RA900

Test mode:	GFSK	Test channel:	Lowest
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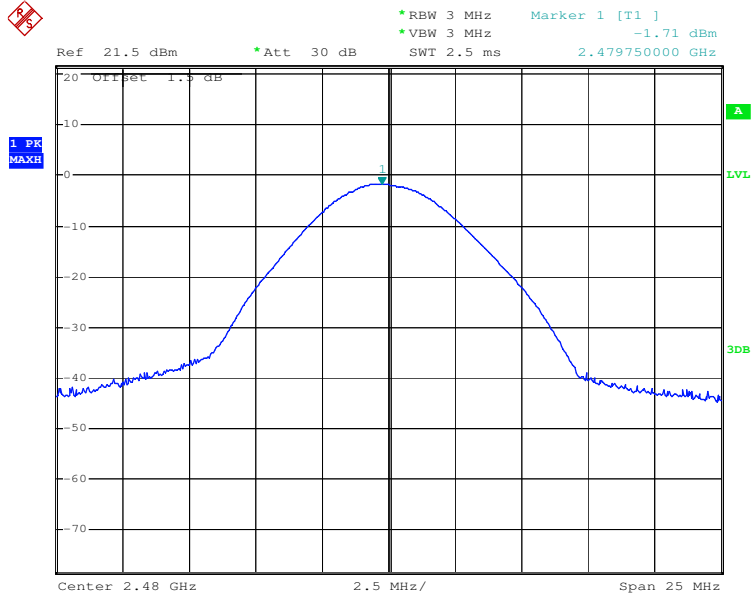
Test mode:	GFSK	Test channel:	Middle
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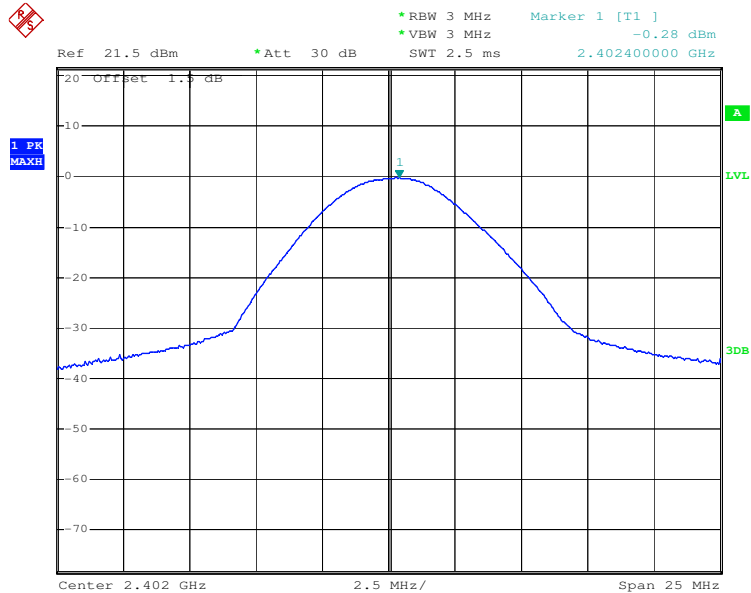


Test mode:	GFSK	Test channel:	Highest
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SE900

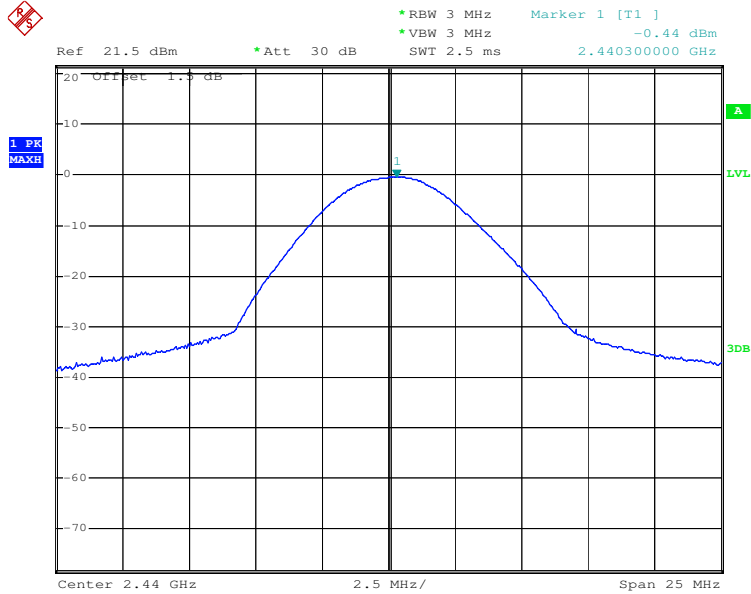
Test mode:	GFSK	Test channel:	Lowest
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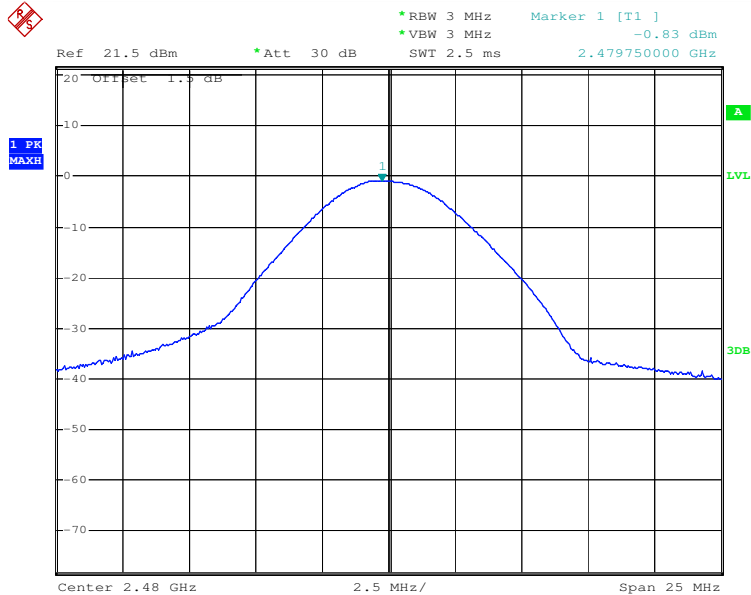
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Test mode:	GFSK	Test channel:	Middle
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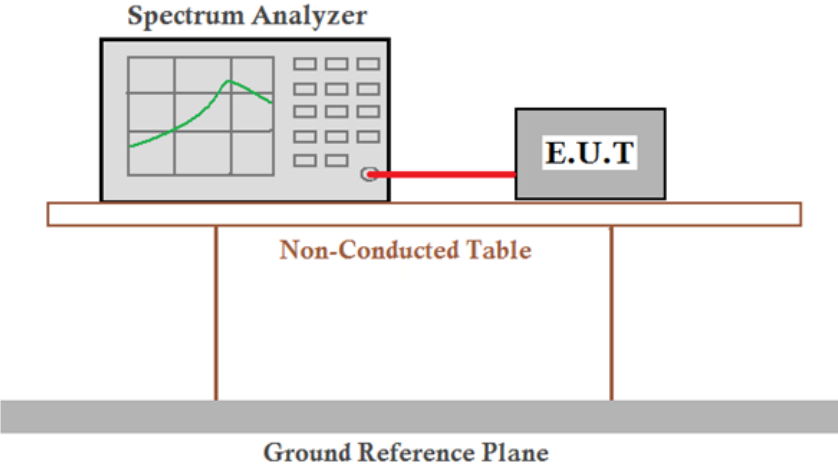


Test mode:	GFSK	Test channel:	Highest
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5.3 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2009 and KDB558074 D01
Test Setup:	
Limit:	≥ 500 kHz
Test Mode:	Non-hopping transmitting with GFSK modulation
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

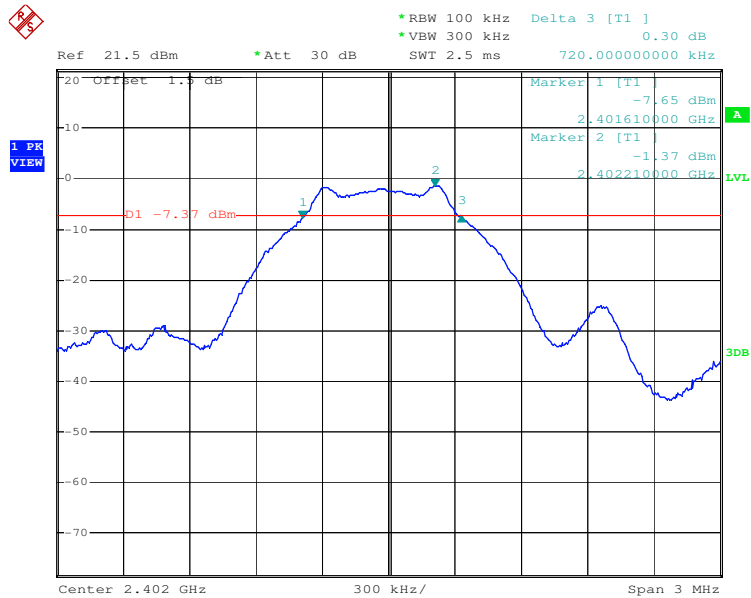
Measurement Data

Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	0.720	≥500	Pass
Middle	0.708	≥500	Pass
Highest	0.696	≥500	Pass

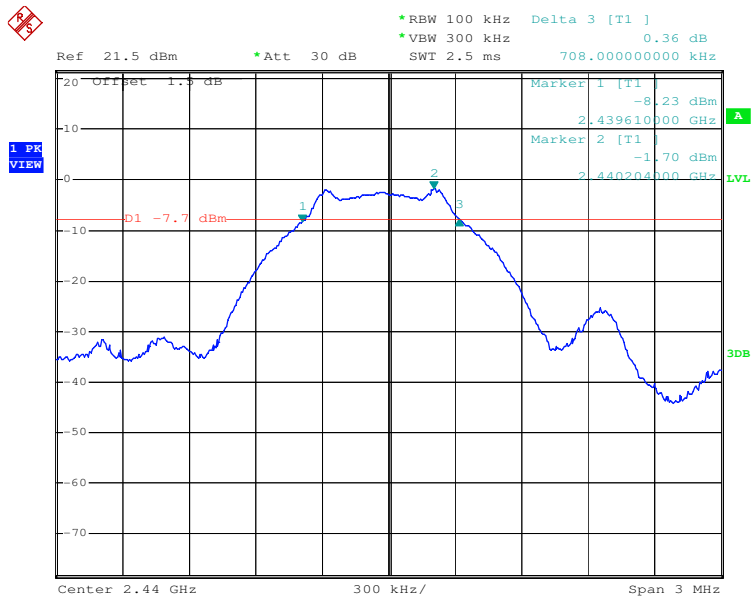


Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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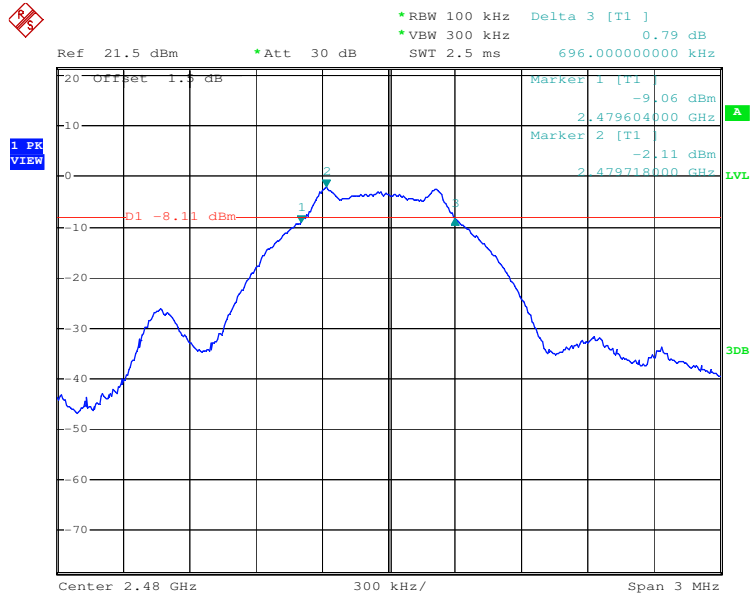
Test mode:	GFSK	Test channel:	Middle
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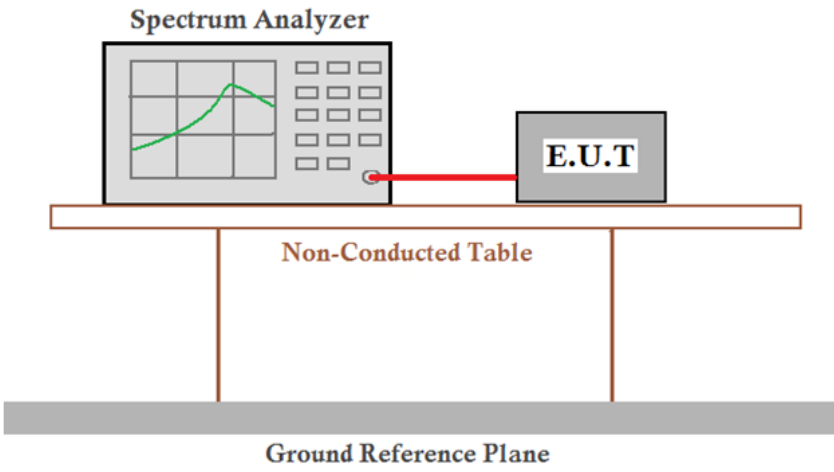


Test mode:	GFSK	Test channel:	Highest
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5.4 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2009 and KDB558074 D01
Test Setup:	
Limit:	≤8.00dBm
Exploratory Test Mode:	Non-hopping transmitting with GFSK modulation
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

Measurement Data

GFSK mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-16.50	≤8.00	Pass
Middle	-16.85	≤8.00	Pass
Highest	-17.38	≤8.00	Pass

Remark:

$$\text{Power Spectral Density} = \text{Power} + \text{BWCF}$$

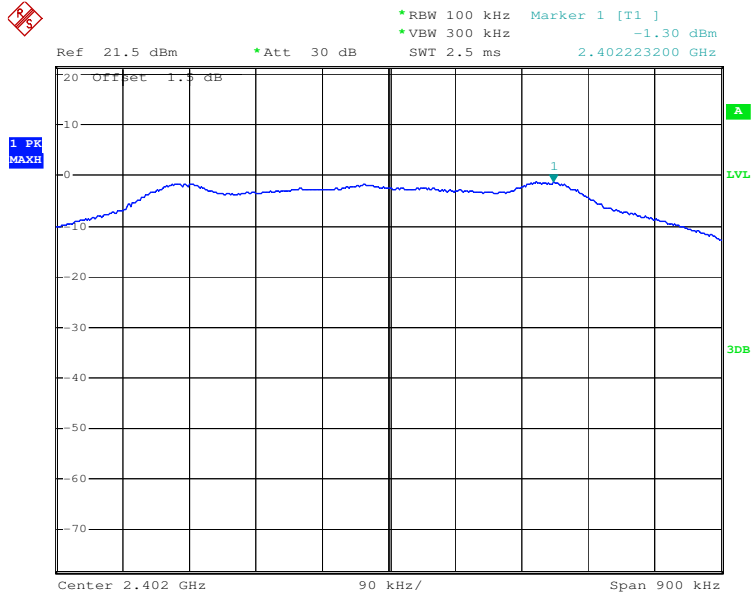
$$\text{BWCF} = 10\log(3\text{kHz}/100\text{kHz}) = -15.2\text{dB}$$

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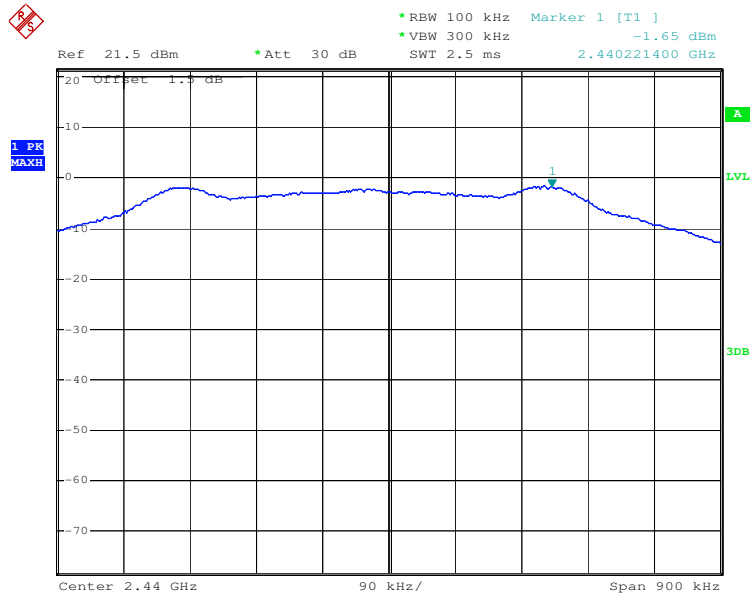


Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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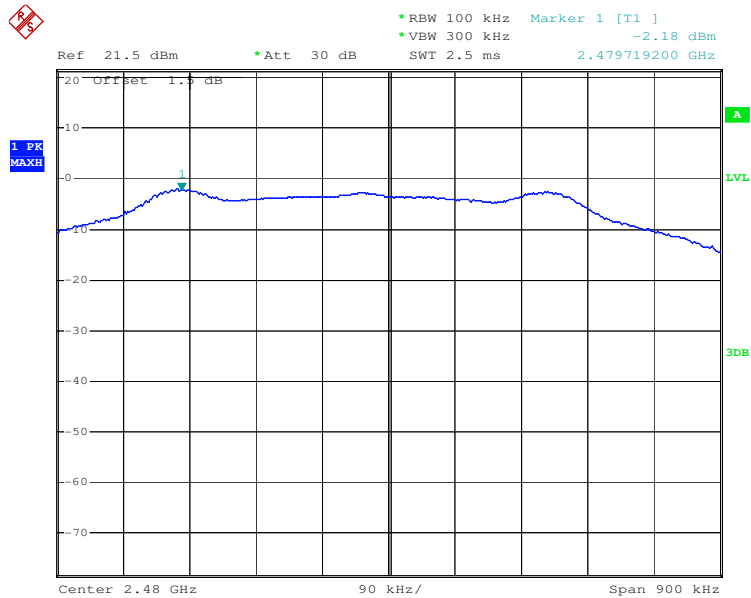
Test mode:	GFSK	Test channel:	Middle
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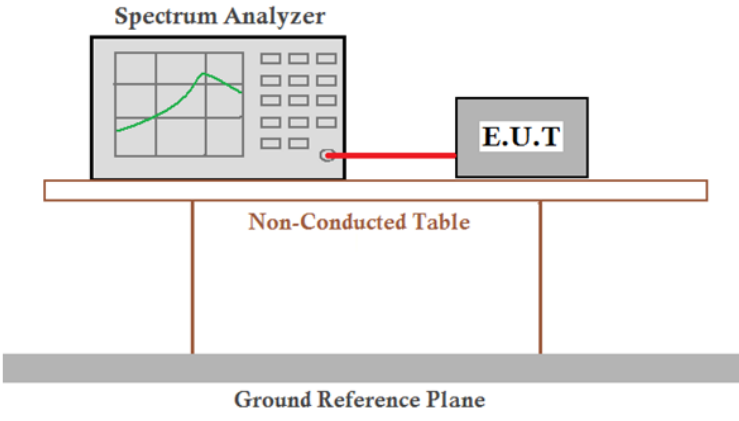


Test mode:	GFSK	Test channel:	Highest
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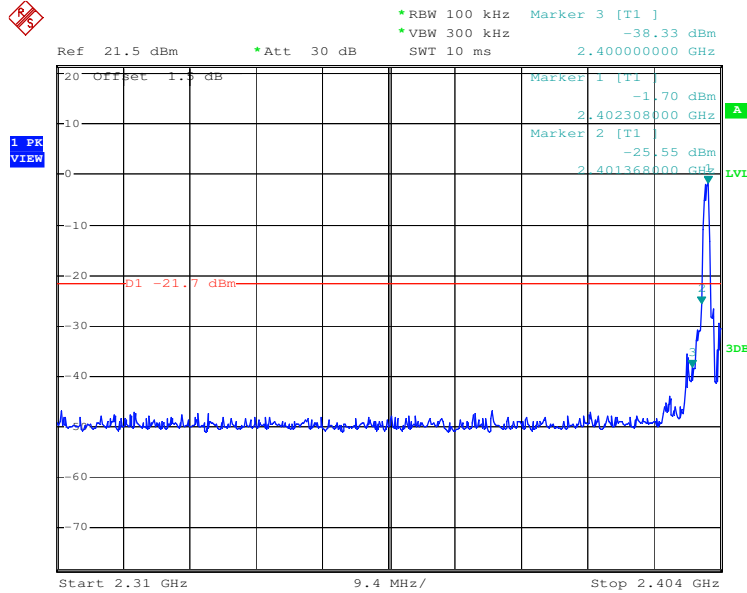
5.5 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2009 and KDB558074 D01
Test Setup:	 <p>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
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:	Non-hopping and hopping transmitting with GFSK modulation
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

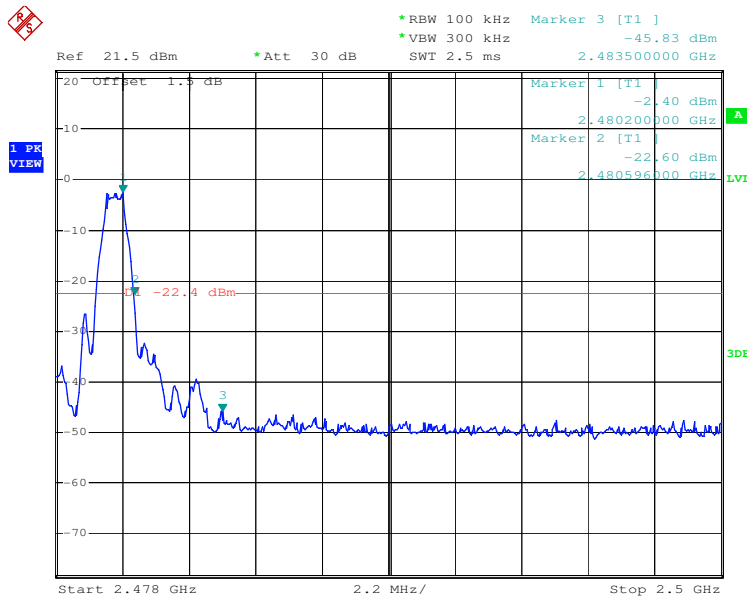


Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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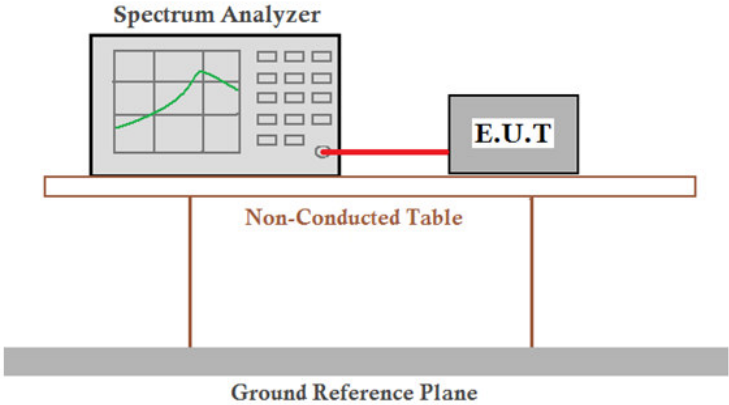


Test mode:	GFSK	Test channel:	Highest
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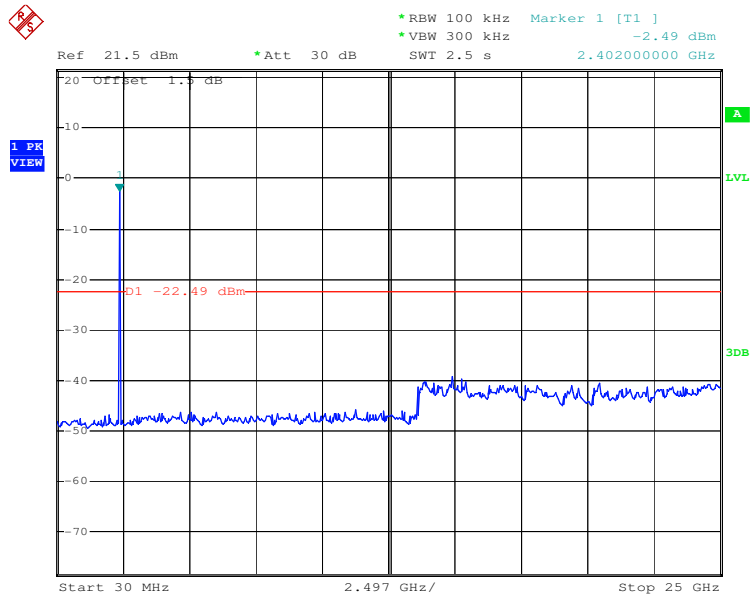
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5.6 Spurious RF Conducted Emissions

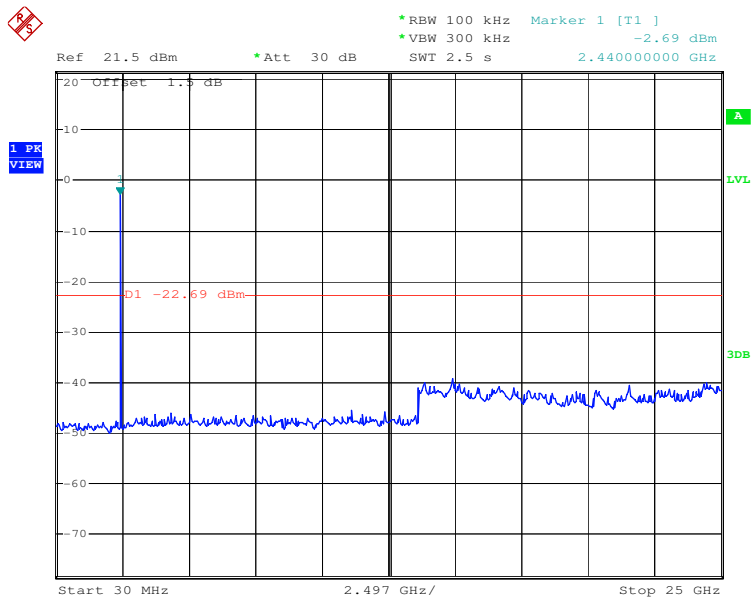
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2009 and KDB558074 D01
Test Setup:	 <p>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator 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:	Non-hopping transmitting with GFSK modulation
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass



Test mode:	GFSK	Test channel:	Lowest
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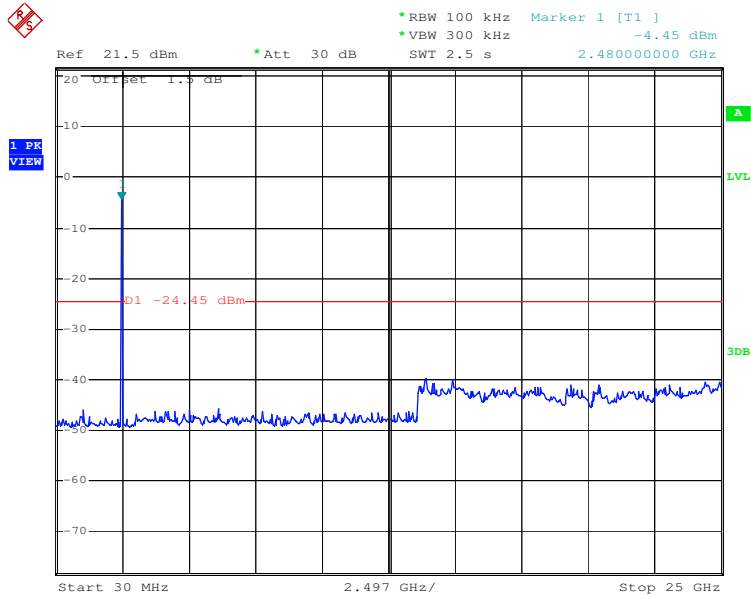
Test mode:	GFSK	Test channel:	Middle
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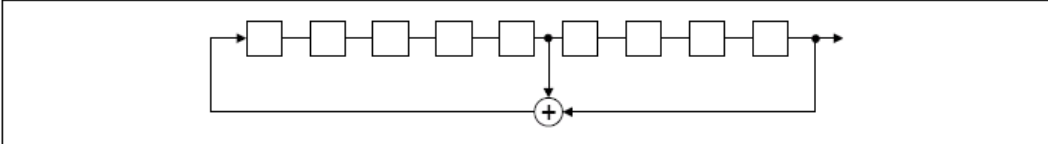
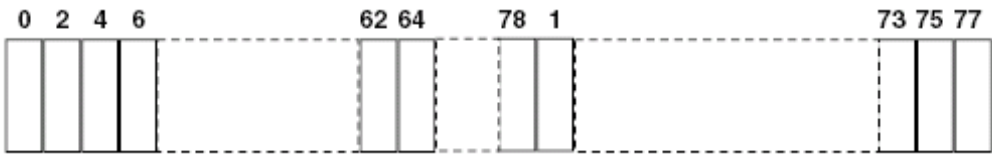


Test mode:	GFSK	Test channel:	Highest
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5.7 Pseudorandom Frequency Hopping Sequence

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1) requirement:
<p>The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.</p>	
EUT Pseudorandom Frequency Hopping Sequence	
<p>The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.</p> <ul style="list-style-type: none"> • Number of shift register stages: 9 • Length of pseudo-random sequence: $2^9 - 1 = 511$ bits • Longest sequence of zeros: 8 (non-inverted signal) 	
	
<p><i>Linear Feedback Shift Register for Generation of the PRBS sequence</i></p>	
<p>An example of Pseudorandom Frequency Hopping Sequence as follow:</p>	
	
<p>Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their Corresponding transmitters and shift frequencies in synchronization with the transmitted signals.</p>	

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5.8 Radiated Spurious Emission

5.8.1 Spurious Emissions					
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2009 and KDB558074 D01				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
<p>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.</p>					
Test Setup:					

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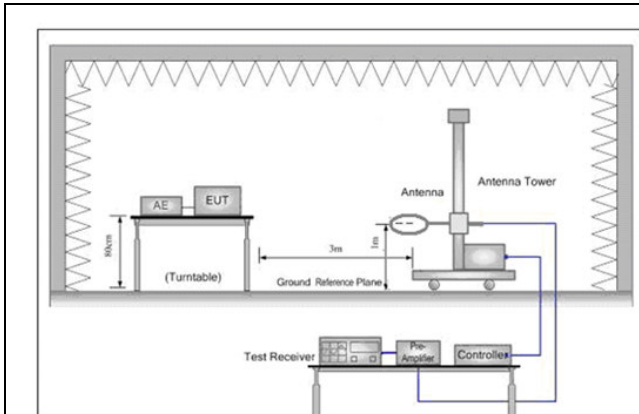


Figure 1. Below 30MHz

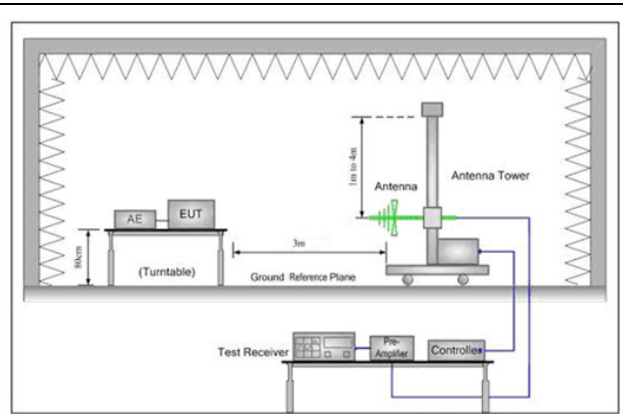


Figure 2. 30MHz to 1GHz

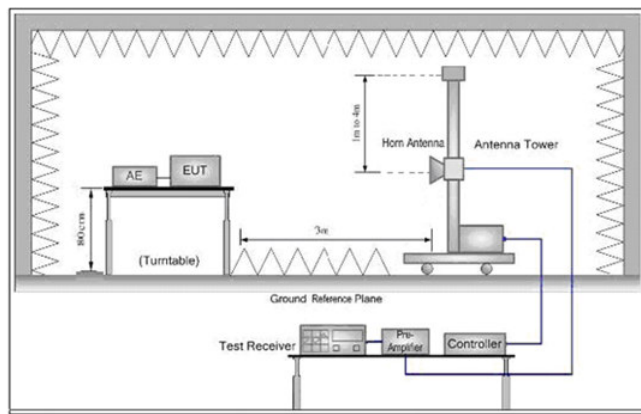


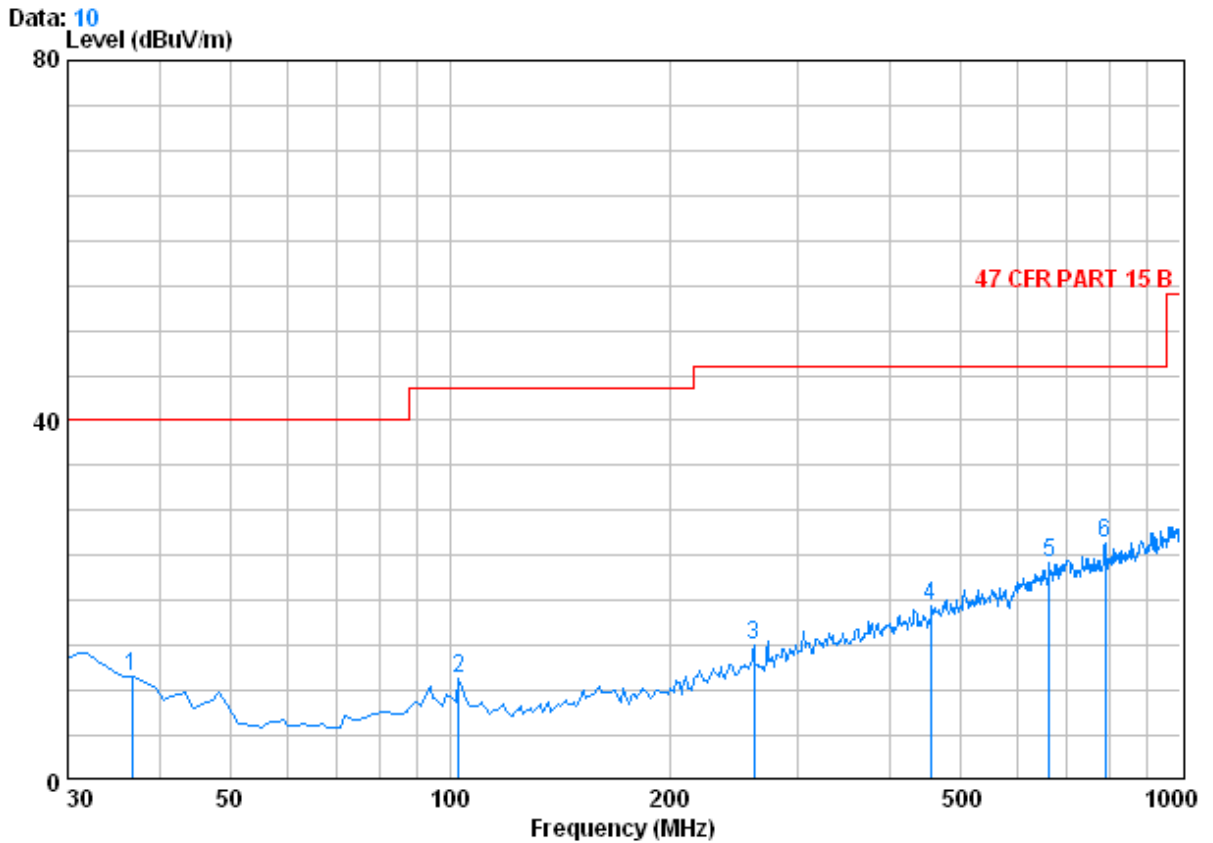
Figure 3. Above 1 GHz

<p>Test Procedure:</p>	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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.
------------------------	---



	<p>g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Test Mode:	Non-hopping transmitting mode with GFSK modulation
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

Radiated Emission below 1GHz		
30MHz~1GHz (QP)		
RA900		
Test mode:	Transmitting	Vertical



Condition : 47 CFR PART 15 B 3m 3142C VERTICAL
 Job No. : 5271RF
 mode : Tx(RA900)

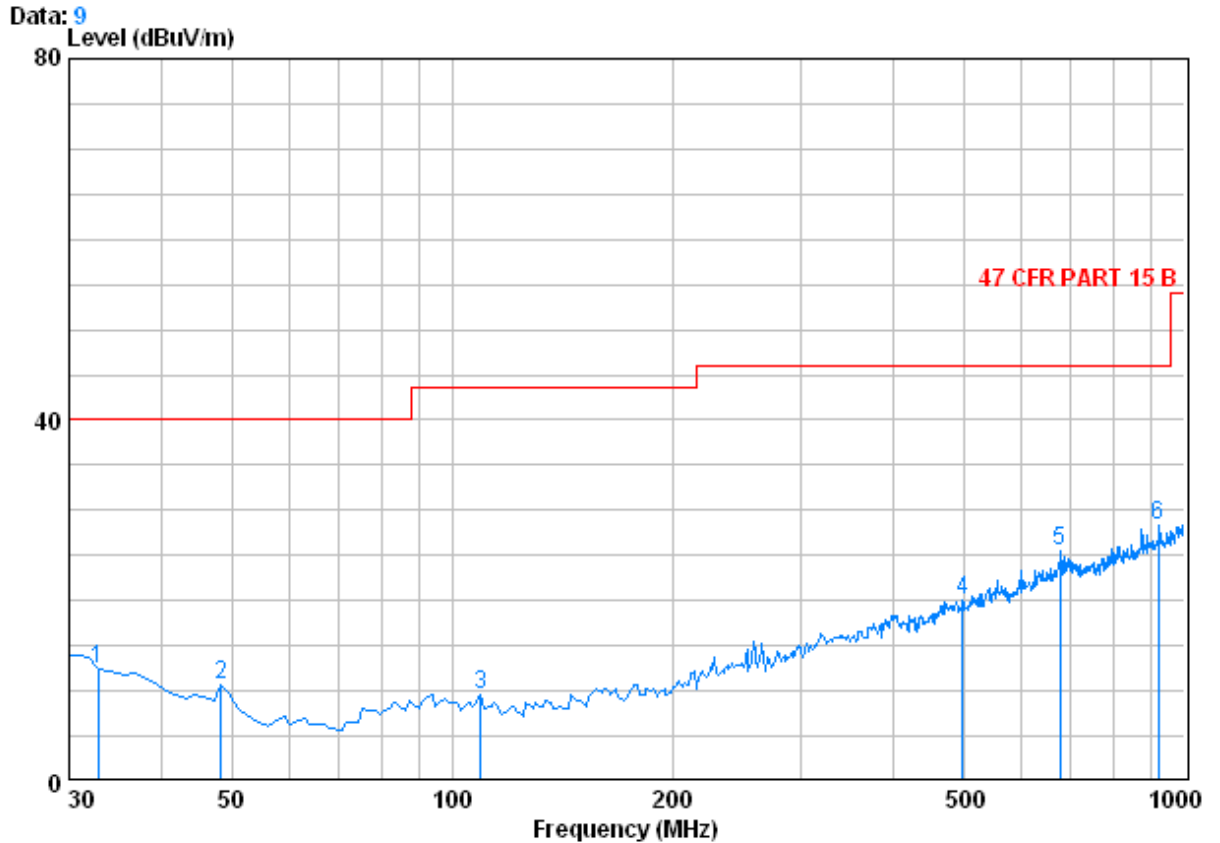
	Freq	Cable Loss	Antenna Factor	Preamplifier	Read Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	36.790	0.60	12.30	27.33	26.03	40.00	-28.40
2	102.750	1.21	8.97	27.18	28.34	43.50	-32.17
3	260.860	1.73	12.53	26.50	27.20	46.00	-31.04
4	455.830	2.43	17.09	27.48	27.31	46.00	-26.65
5	661.470	2.83	21.00	27.46	27.74	46.00	-21.90
6	788.540	3.17	22.06	27.31	28.41	46.00	-19.68



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Test mode:	Transmitting	Horizontal
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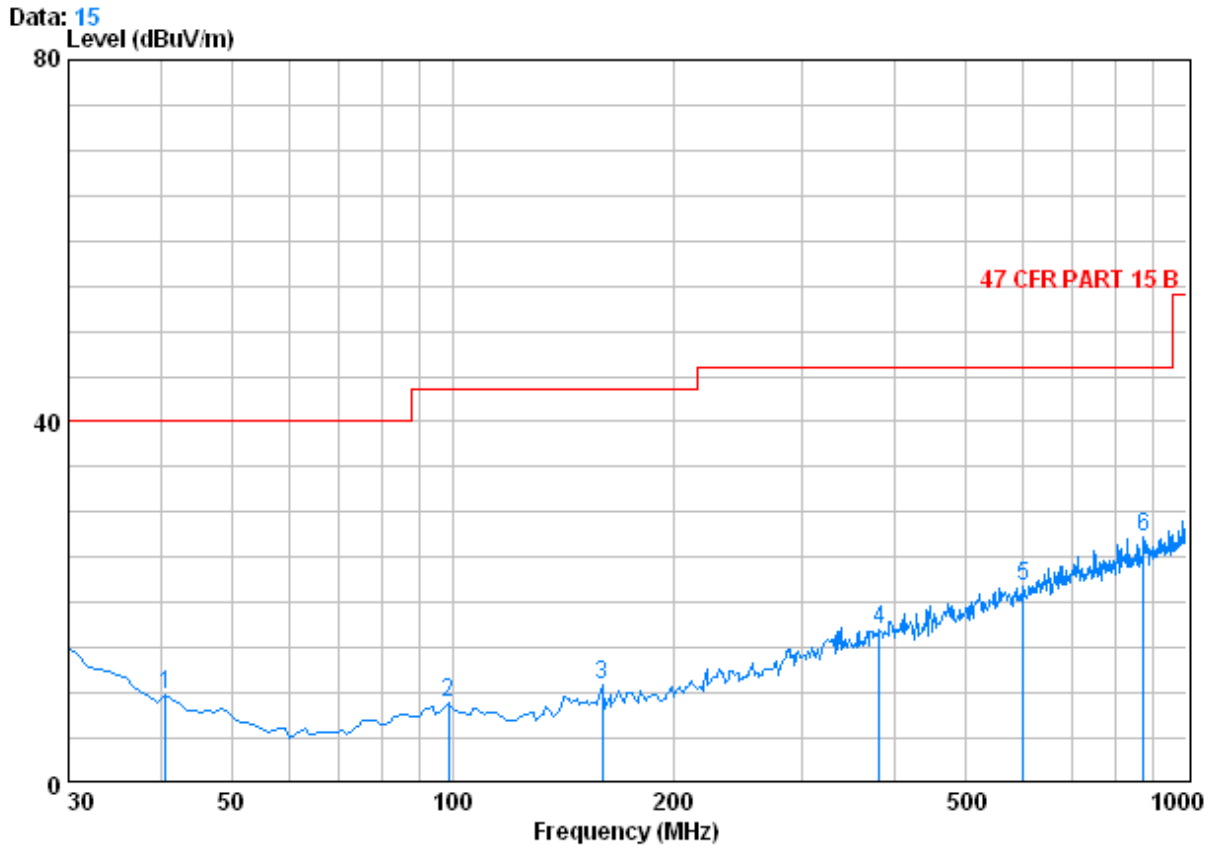
Condition : 47 CFR PART 15 B 3m 3142C HORIZONTAL
 Job No. : 5271RF
 mode : Tx(RA900)

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	32.910	0.60	13.84	27.35	25.42	40.00	-27.48
2	48.430	0.78	9.00	27.29	28.19	40.00	-29.33
3	109.540	1.23	8.62	27.14	26.98	43.50	-33.81
4	498.510	2.59	17.80	27.70	27.42	46.00	-25.88
5	676.990	2.86	21.42	27.44	28.68	46.00	-20.48
6 @	921.430	3.62	23.29	26.68	28.15	46.00	-17.62

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SE900		
Test mode:	Transmitting	Vertical



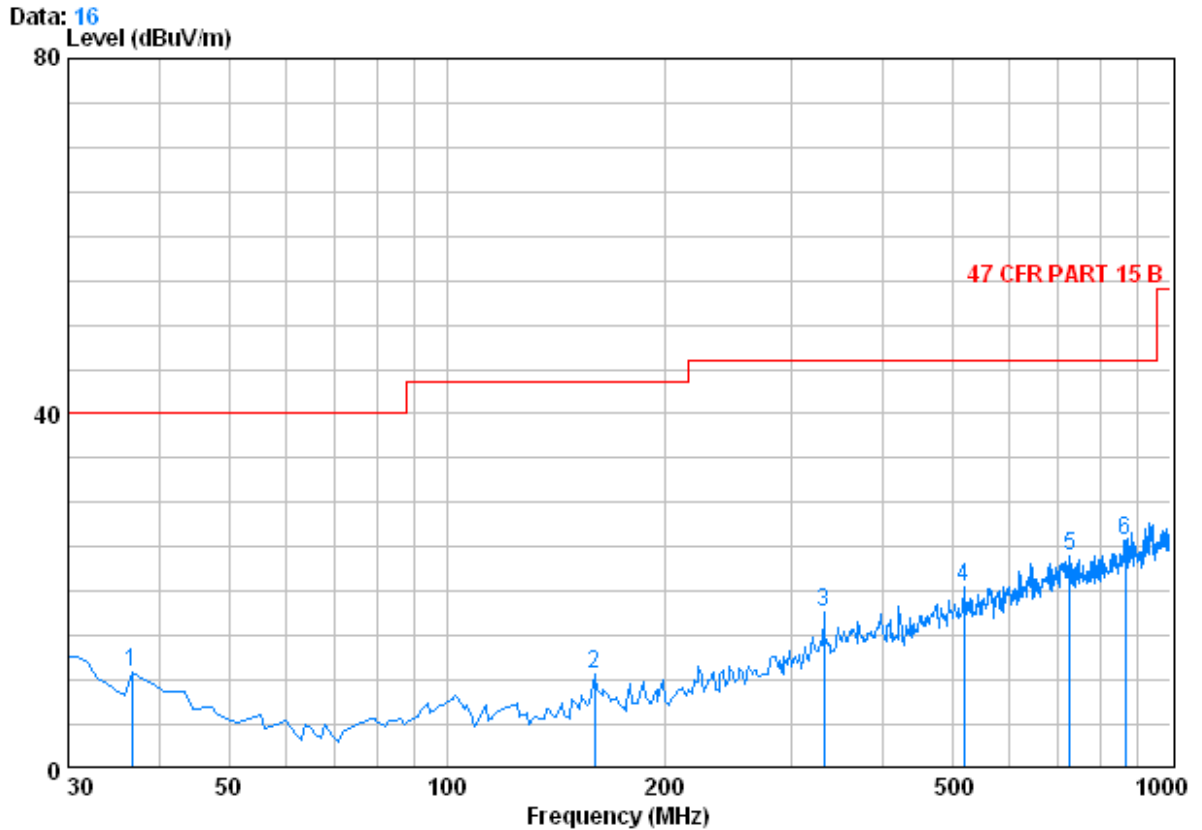
Condition : 47 CFR PART 15 B 3m 3142C VERTICAL
 Job No. : 5271RF
 mode : TX(SE900)

	Freq	Cable Loss	Antenna Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	40.670	0.61	10.93	27.32	25.61	9.84	40.00	-30.16
2	98.870	1.19	9.06	27.20	25.81	8.85	43.50	-34.65
3	159.980	1.34	9.60	26.86	26.82	10.90	43.50	-32.60
4	382.110	2.15	16.08	27.01	25.83	17.06	46.00	-28.94
5	599.390	2.70	19.74	27.54	26.84	21.74	46.00	-24.26
6 @	874.870	3.50	23.00	26.89	27.63	27.25	46.00	-18.75

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Test mode:	Transmitting	Horizontal
------------	--------------	------------



Condition : 47 CFR PART 15 B 3m 3142C HORIZONTAL
 Job No. : 5271RF
 mode : TX(SE900)

	Freq	CableAntenna Loss Factor	Preamp Factor	Read Level	Limit Line	Over Limit		
	MHz	dB	dB/m	dBuV	dBuV/m	dB		
1	36.790	0.60	12.53	27.33	25.06	10.87	40.00	-29.13
2	159.980	1.34	9.60	26.86	26.68	10.76	43.50	-32.74
3	331.670	2.00	14.98	26.64	27.30	17.64	46.00	-28.36
4	517.910	2.62	18.34	27.67	27.15	20.44	46.00	-25.56
5	726.460	2.98	21.60	27.38	26.76	23.97	46.00	-22.03
6	867.110	3.48	22.78	26.92	26.40	25.73	46.00	-20.27

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Transmitter Emission above 1GHz RA900									
Test mode:		GFSK		Test channel:		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	
1353.804	2.42	27.85	39.29	46.53	37.51	74	-36.49	Vertical	
1928.509	2.79	31.31	39.54	47.45	42.01	74	-31.99	Vertical	
3151.992	3.44	33.34	40.41	48.95	45.32	74	-28.68	Vertical	
4785.075	4.68	34.73	41.61	49.81	47.61	74	-26.39	Vertical	
8104.559	6.20	36.04	39.10	48.45	51.59	74	-22.41	Vertical	
11112.520	6.25	38.48	37.91	46.15	52.97	74	-21.03	Vertical	
1353.804	2.42	27.85	39.29	47.10	38.08	74	-35.92	Horizontal	
1764.123	2.69	30.07	39.46	47.18	40.48	74	-33.52	Horizontal	
4223.950	4.31	34.45	41.21	47.75	45.30	74	-28.70	Horizontal	
6047.776	5.14	35.76	40.87	49.26	49.29	74	-24.71	Horizontal	
7470.558	6.08	35.99	39.64	48.67	51.10	74	-22.90	Horizontal	
10453.950	6.09	38.24	37.64	46.54	53.23	74	-20.77	Horizontal	
Test mode:		GFSK		Test channel:		Middle		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	
1553.293	2.55	28.59	39.38	46.99	38.75	74	-35.25	Vertical	
3983.750	4.14	33.80	41.02	48.97	45.89	74	-28.11	Vertical	
5850.919	5.07	35.45	41.06	49.64	49.10	74	-24.90	Vertical	
7547.013	6.17	36.00	39.57	49.28	51.88	74	-22.12	Vertical	
9935.053	5.98	37.65	37.52	46.09	52.20	74	-21.80	Vertical	
11341.140	6.30	38.43	38.00	46.88	53.61	74	-20.39	Vertical	
1381.656	2.44	27.88	39.30	47.65	38.67	74	-35.33	Horizontal	
3552.582	3.78	33.26	40.70	48.66	45.00	74	-29.00	Horizontal	
6156.505	5.17	35.88	40.79	49.39	49.65	74	-24.35	Horizontal	
7721.909	6.22	36.00	39.43	49.41	52.20	74	-21.80	Horizontal	
9859.472	5.98	37.56	37.58	46.76	52.72	74	-21.28	Horizontal	
10888.510	6.19	38.46	37.81	46.95	53.79	74	-20.21	Horizontal	

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Test mode:		GFSK		Test channel:		Highest		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	
1260.670	2.36	27.67	39.25	46.15	36.93	74	-37.07	Vertical	
1988.327	2.82	31.68	39.56	47.80	42.74	74	-31.26	Vertical	
3815.033	4.01	33.59	40.90	49.49	46.19	74	-27.81	Vertical	
5352.186	4.90	34.75	41.48	48.44	46.61	74	-27.39	Vertical	
7470.558	6.08	35.99	39.64	48.39	50.82	74	-23.18	Vertical	
10480.590	6.09	38.28	37.65	45.44	52.16	74	-21.84	Vertical	
1367.659	2.43	27.88	39.29	48.21	39.23	74	-34.77	Horizontal	
2013.795	2.84	31.83	39.57	47.48	42.58	74	-31.42	Horizontal	
3943.392	4.11	33.74	41.00	49.49	46.34	74	-27.66	Horizontal	
4490.048	4.48	35.15	41.40	49.41	47.64	74	-26.36	Horizontal	
7566.249	6.19	36.00	39.56	48.51	51.14	74	-22.86	Horizontal	
10348.050	6.06	38.12	37.59	46.37	52.96	74	-21.04	Horizontal	

SE900									
Test mode:		GFSK		Test channel:		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	
1381.656	2.44	27.88	39.30	48.89	39.91	74	-34.09	Vertical	
3018.502	3.33	33.39	40.31	50.64	47.05	74	-26.95	Vertical	
5646.079	5.00	35.12	41.22	50.79	49.69	74	-24.31	Vertical	
6903.705	5.45	35.90	40.13	51.34	52.56	74	-21.44	Vertical	
8814.774	6.16	36.45	38.49	48.51	52.63	74	-21.37	Vertical	
10480.590	6.09	38.28	37.65	46.70	53.42	74	-20.58	Vertical	
1159.096	2.29	27.48	39.20	49.81	40.38	74	-33.62	Horizontal	
1525.860	2.54	28.35	39.37	49.91	41.43	74	-32.57	Horizontal	
3625.669	3.84	33.34	40.76	50.55	46.97	74	-27.03	Horizontal	
4501.492	4.49	35.20	41.40	50.23	48.52	74	-25.48	Horizontal	
6494.564	5.26	36.28	40.50	51.09	52.13	74	-21.87	Horizontal	
9636.161	5.99	37.34	37.76	48.16	53.73	74	-20.27	Horizontal	

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Test mode:		GFSK		Test channel:		Middle		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		
1381.656	2.44	27.88	39.30	48.74	39.76	74	-34.24	Vertical		
1851.542	2.74	30.69	39.51	48.71	42.63	74	-31.37	Vertical		
3815.033	4.01	33.59	40.90	50.20	46.90	74	-27.10	Vertical		
5297.966	4.88	34.70	41.53	51.20	49.25	74	-24.75	Vertical		
7394.878	6.00	35.96	39.71	50.68	52.93	74	-21.07	Vertical		
10348.050	6.06	38.12	37.59	47.27	53.86	74	-20.14	Vertical		
1170.959	2.30	27.51	39.21	49.05	39.65	74	-34.35	Horizontal		
1777.646	2.70	30.20	39.47	49.44	42.87	74	-31.13	Horizontal		
3625.669	3.84	33.34	40.76	50.44	46.86	74	-27.14	Horizontal		
4983.987	4.77	34.43	41.77	50.01	47.44	74	-26.56	Horizontal		
6032.401	5.13	35.74	40.89	50.50	50.48	74	-23.52	Horizontal		
9370.083	6.05	37.03	37.99	48.48	53.57	74	-20.43	Horizontal		

Test mode:		GFSK		Test channel:		Highest		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		
1655.354	2.62	29.33	39.42	48.20	40.73	74	-33.27	Vertical		
2987.923	3.31	33.38	40.30	48.67	45.06	74	-28.94	Vertical		
5073.591	4.80	34.48	41.73	49.66	47.21	74	-26.79	Vertical		
6156.505	5.17	35.88	40.79	49.86	50.12	74	-23.88	Vertical		
8063.403	6.20	36.02	39.13	49.46	52.55	74	-21.45	Vertical		
10348.050	6.06	38.12	37.59	46.58	53.17	74	-20.83	Vertical		
1286.606	2.37	27.73	39.26	48.42	39.26	74	-34.74	Horizontal		
1856.261	2.74	30.69	39.51	48.46	42.38	74	-31.62	Horizontal		
2898.032	3.26	33.26	40.23	49.40	45.69	74	-28.31	Horizontal		
4501.492	4.49	35.20	41.40	49.76	48.05	74	-25.95	Horizontal		
6219.512	5.19	35.96	40.73	50.69	51.11	74	-22.89	Horizontal		

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Pre-amplifier Factor
- 2) 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.
- 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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5.9 Band edge (Radiated Emission)

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10 2009 and KDB558074 D01		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

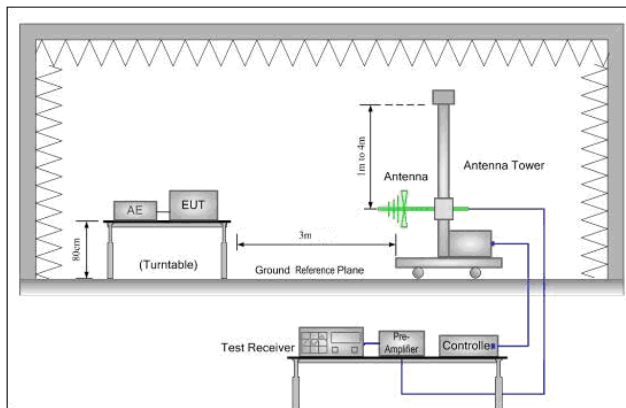


Figure 1. 30MHz to 1GHz

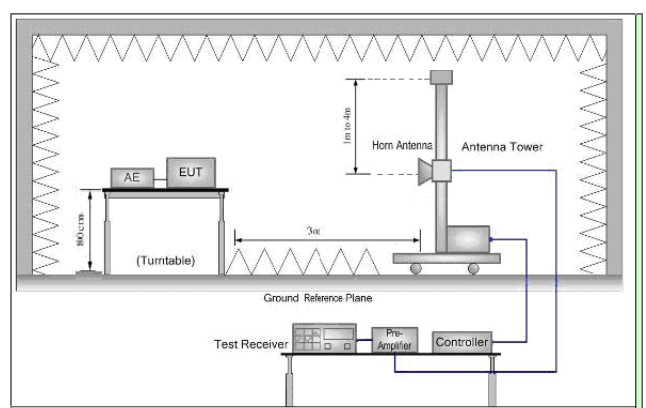


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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.
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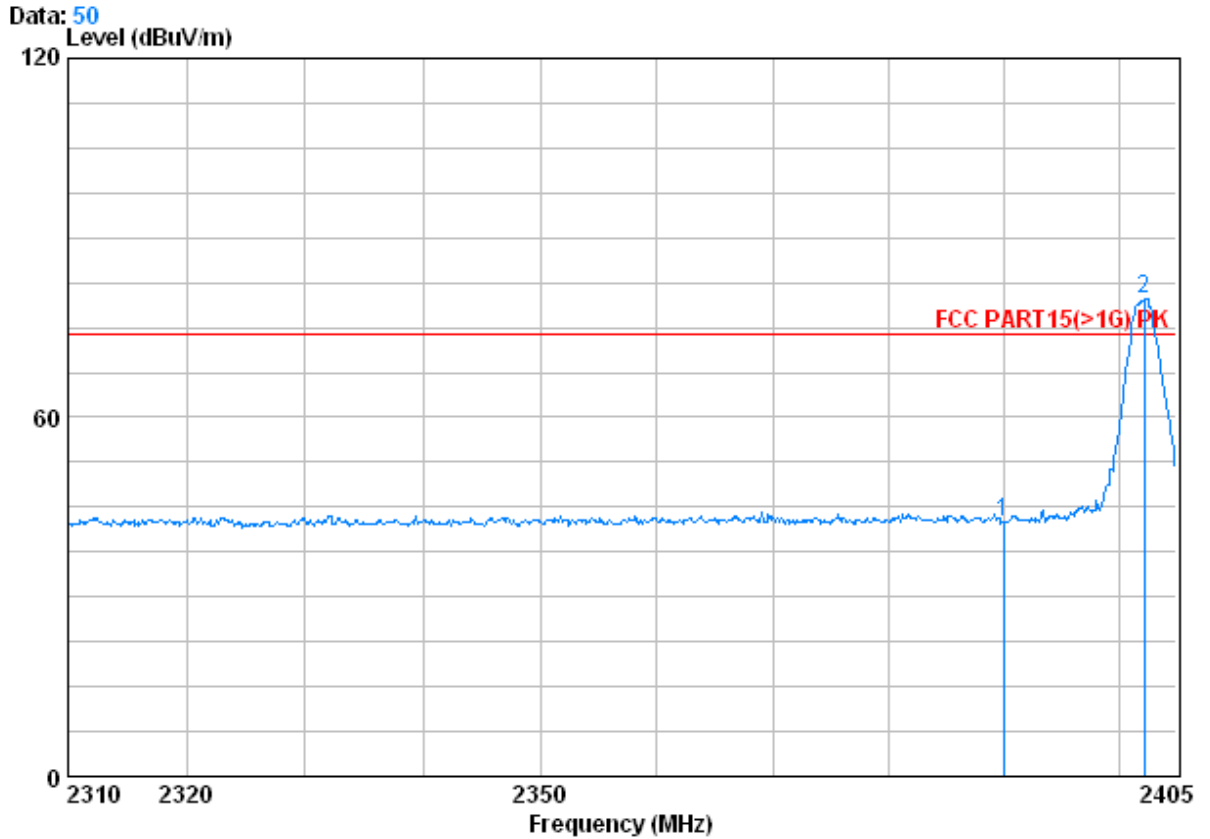


	<p>Repeat for each power and modulation for lowest and highest channel</p> <ul style="list-style-type: none">g. Test the EUT in the lowest channel , the Highest channelh. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Non-hopping transmitting mode with GFSK modulation
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass



Test plot as follows:

Band edge (Radiated Emission)						
Test mode:	GFSK	Test channel:	Lowest	Remark:	Peak	Vertical



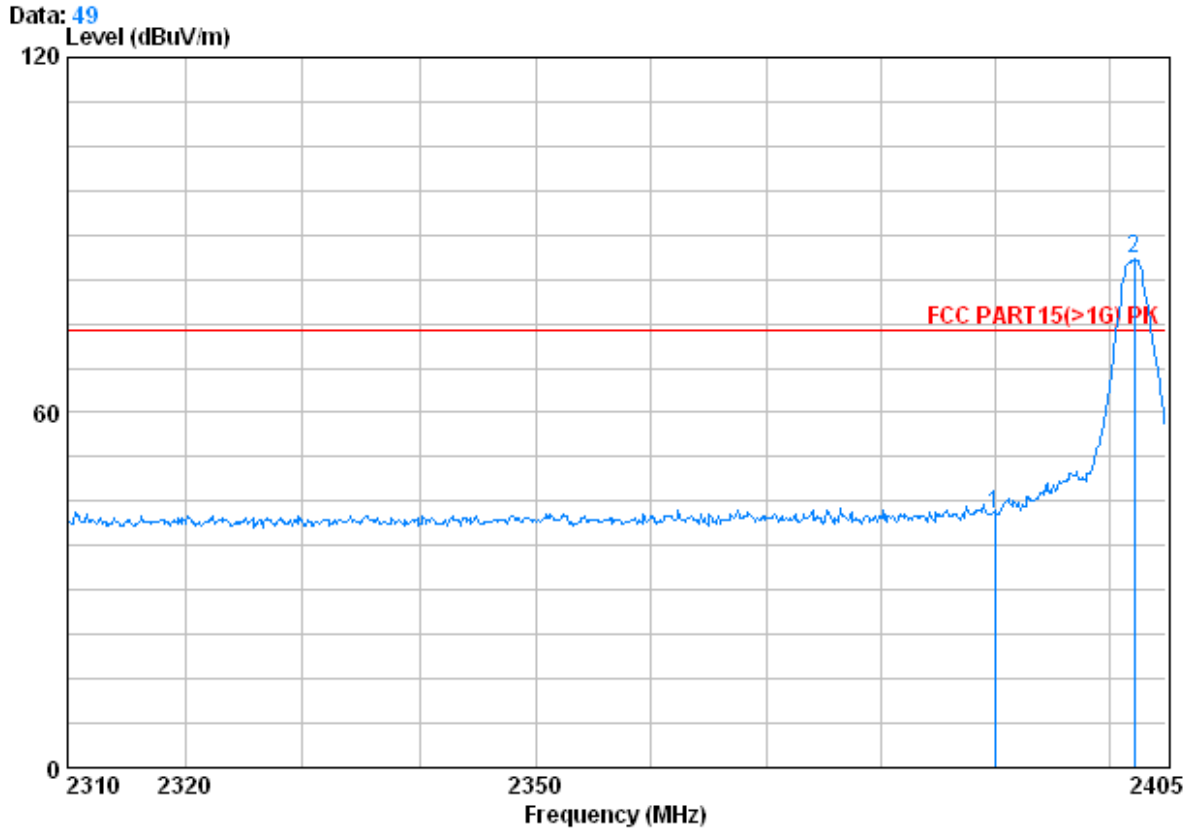
Condition : FCC PART15(>1G) PK 3m VERTICAL
 Job No. : 5271RF
 Mode : 2402 bandedge

	Freq	CableAntenna	Preamp	Read	Limit	Over		
	MHz	Loss	Factor	Level	Line	Limit		
		dB	dB/m	dB	dBuV/m	dB		
1	2390.000	2.98	32.51	39.85	46.91	42.56	74.00	-31.44
2 X	2402.245	2.98	32.51	39.86	84.00	79.63	74.00	5.63

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Test mode:	GFSK	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition : FCC PART15(>1G) PK 3m HORIZONTAL
 Job No. : 5271RF
 Mode : 2402 bandedge

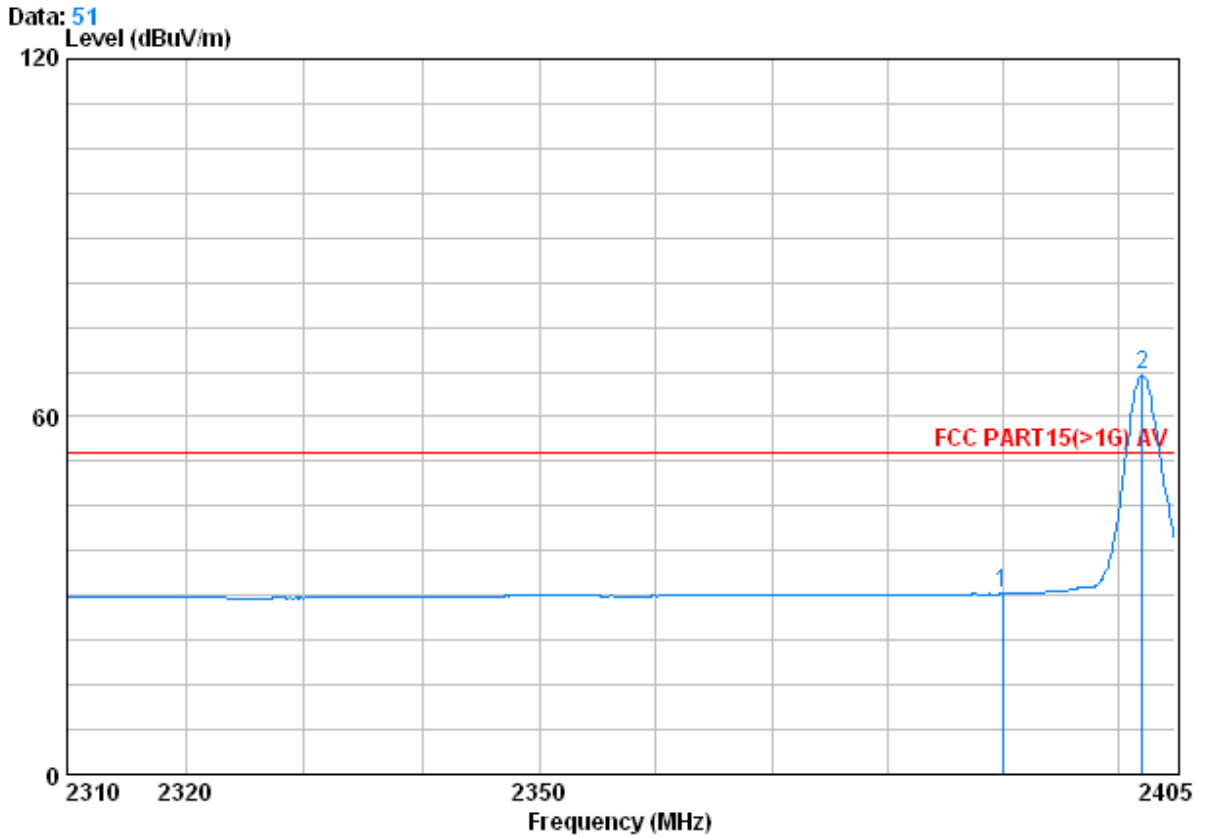
	Freq	CableAntenna Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	47.26	42.90	74.00	-31.10
2 X	2402.245	2.98	32.51	39.86	90.25	85.89	74.00	11.89



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Test mode:	GFSK	Test channel:	Lowest	Remark:	Average	Vertical
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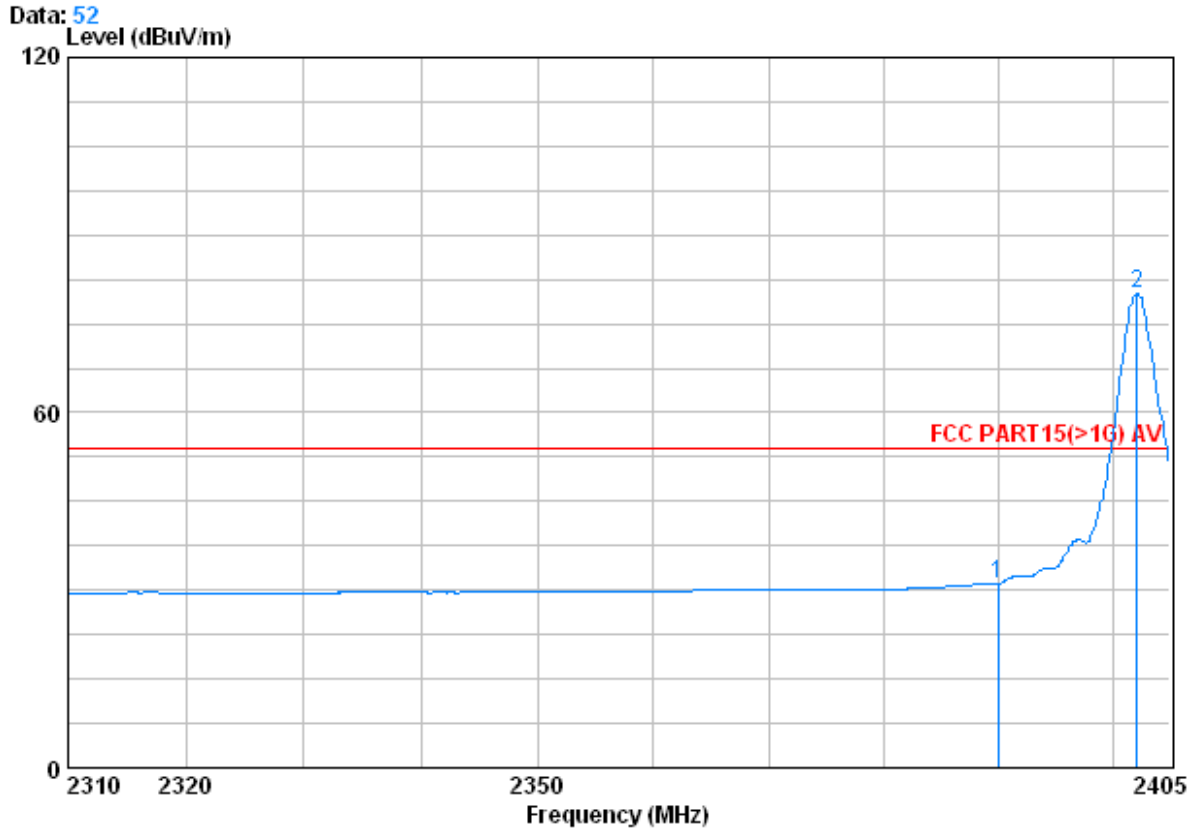
Condition : FCC PART15(>1G) AV 3m VERTICAL
 Job No. : 5271RF
 Mode : 2402 bandedge

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	34.63	30.27	54.00	-23.73
2 X	2402.150	2.98	32.51	39.86	71.36	66.99	54.00	12.99

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Test mode:	GFSK	Test channel:	Lowest	Remark:	Average	Horizontal
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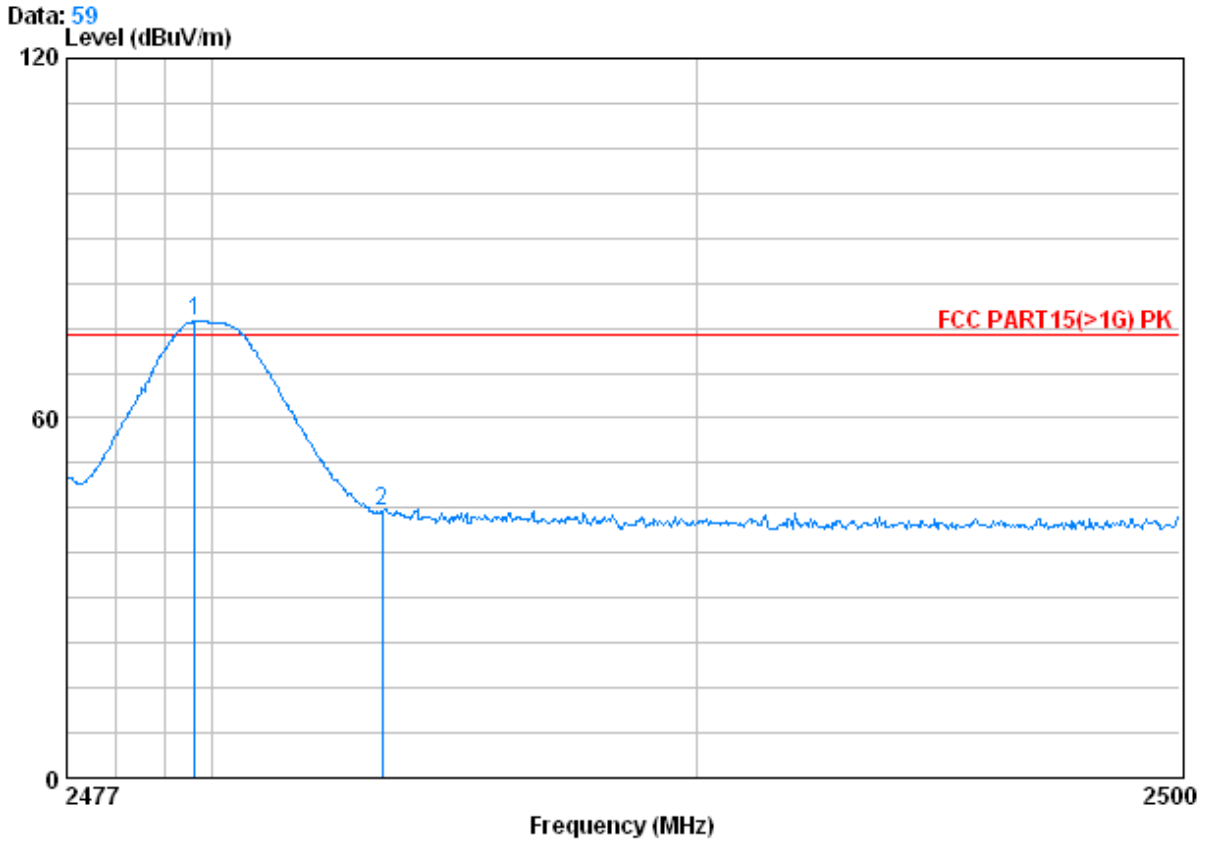
Condition : FCC PART15(>1G) AV 3m HORIZONTAL
 Job No. : 5271RF
 Mode : 2402 bandedge

	Freq	CableAntenna Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	35.37	31.01	54.00 -22.99
2 @	2402.150	2.98	32.51	39.86	84.39	80.02	54.00 26.02

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Test mode:	GFSK	Test channel:	Highest	Remark:	Peak	Vertical
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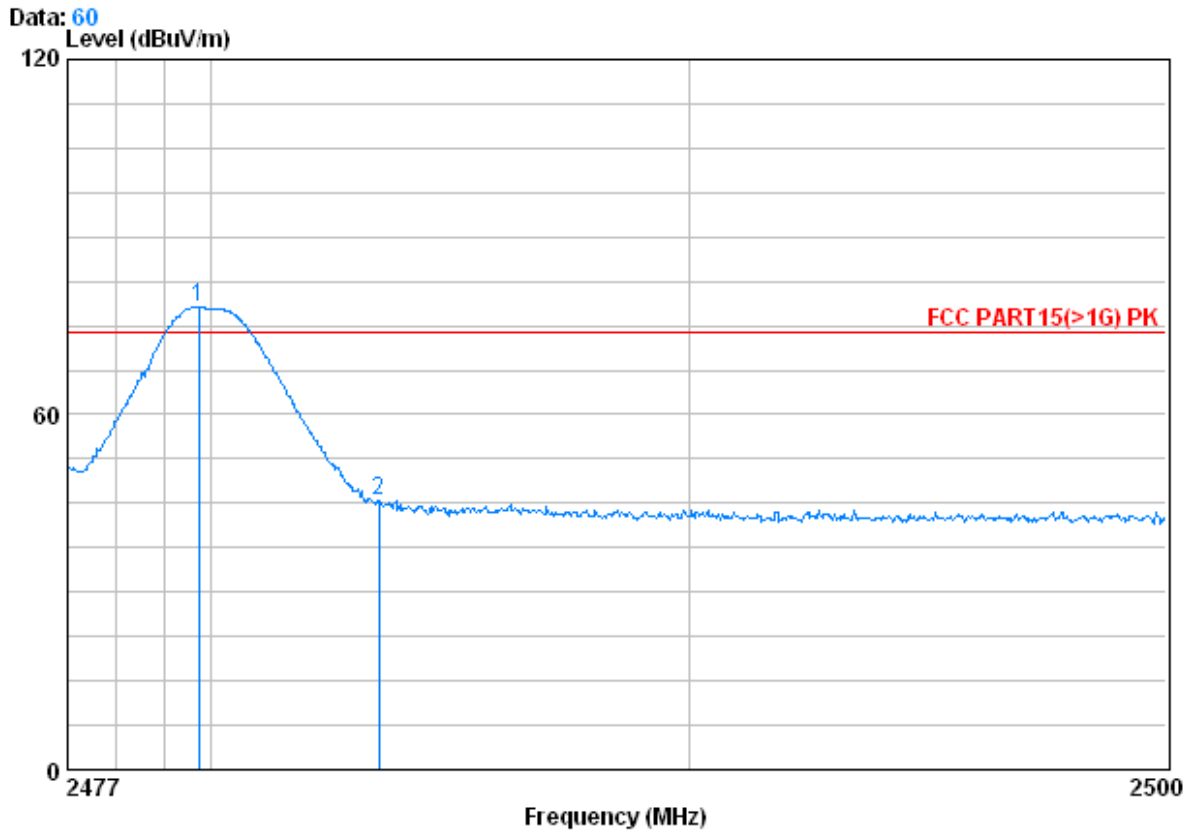
Condition : FCC PART15(>1G) PK 3m VERTICAL
 Job No. : 5271RF
 Mode : 2480 bandedge

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2479.645	3.03	32.67	39.92	80.46	76.24	74.00	2.24
2	2483.500	3.03	32.67	39.92	48.53	44.31	74.00	-29.69

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Test mode:	GFSK	Test channel:	Highest	Remark:	Peak	Horizontal
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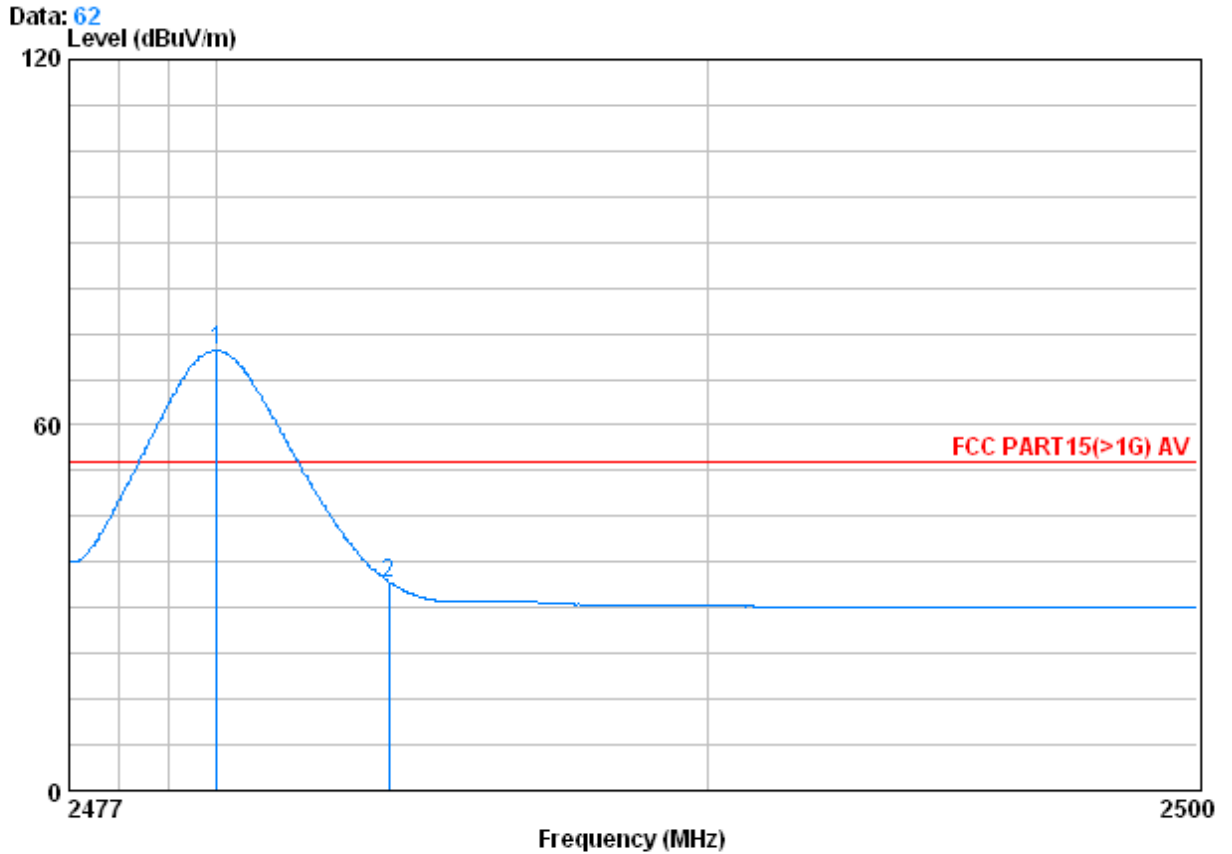
Condition : FCC PART15(>1G) PK 3m HORIZONTAL
 Job No. : 5271RF
 Mode : 2480 bandedge

	Freq	CableAntenna Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2479.737	3.03	32.67	39.92	82.44	78.22	74.00	4.22
2	2483.500	3.03	32.67	39.92	49.69	45.47	74.00	-28.53

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Test mode:	GFSK	Test channel:	Highest	Remark:	Average	Vertical
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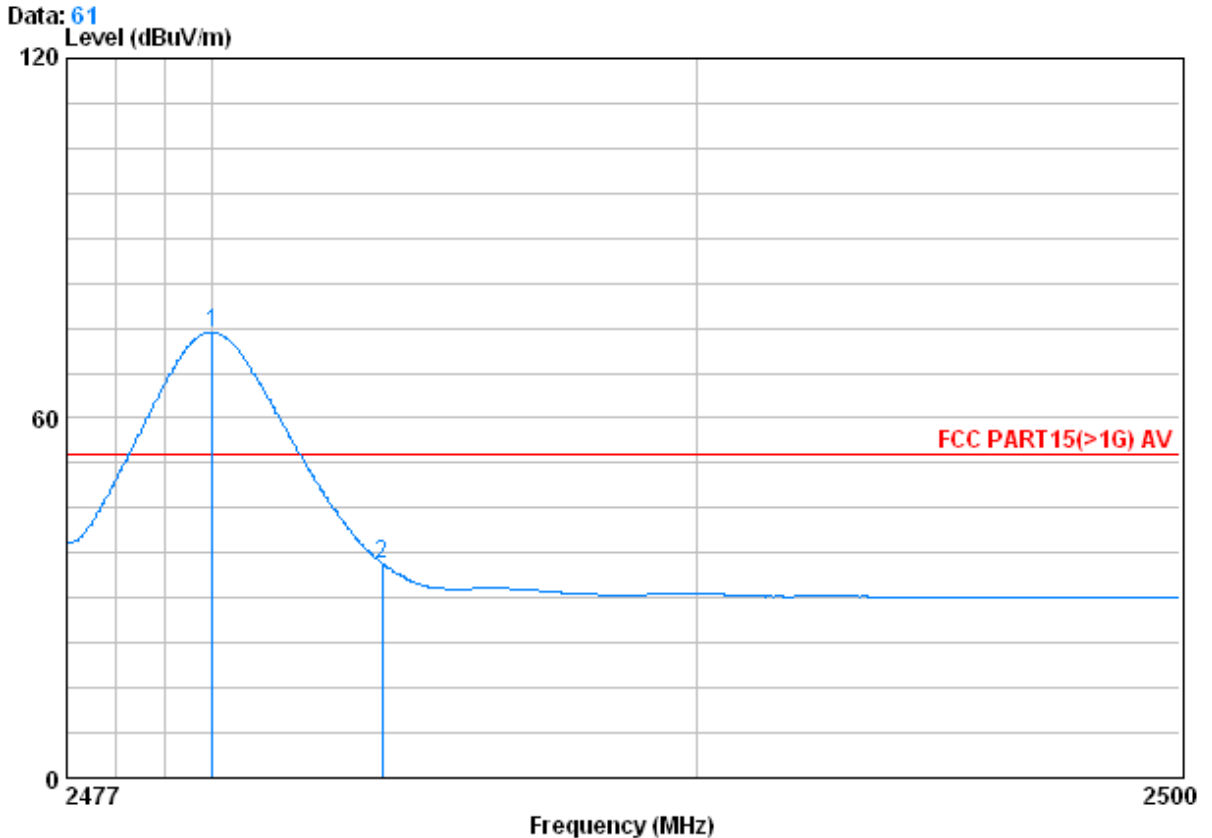
Condition : FCC PART15(>1G) AV 3m VERTICAL
 Job No. : 5271RF
 Mode : 2480 bandedge

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 @	2479.990	3.03	32.67	39.92	76.39	72.17	54.00	18.17
2	2483.500	3.03	32.67	39.92	38.39	34.17	54.00	-19.83

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Test mode:	GFSK	Test channel:	Highest	Remark:	Average	Horizontal
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Condition : FCC PART15(>1G) AV 3m HORIZONTAL
 Job No. : 5271RF
 Mode : 2480 bandedge

	Freq	CableAntenna Loss	Preamp Factor	Read Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m
1 @	2479.990	3.03	32.67	39.92	78.51	74.29
2	2483.500	3.03	32.67	39.92	39.84	35.63

Note:

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

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

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