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Report No.: GZEM161200845001
Page: 1 of 59
FCC ID: 2AKMI-LT5019

TEST REPORT

The following sample(s) was/were submitted and identified on behalf of the client as:

Application No.:	GZEM1612008450ME
Applicant:	Shenzhen Dongdixin Technology Co., Ltd.
Manufacturer:	The same as applicant
Factory:	The same as applicant
FCC ID:	2AKMI-LT5019
Product Description:	Smart Pain Reliever
Model No.:	LT5019
Standards:	CFR 47 FCC PART 15 Subpart C: 2015 section 15.247
Date of Receipt:	2016-12-19
Date of Test:	2016-12-27 to 2017-01-18
Date of Issue:	2017-02-08
Test Result :	Pass*

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



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.

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 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2017-02-08		Original Report

Authorized for issue by:			
Tested By	 <hr/> (Curry Wu) / Project Engineer	2016-12-27 to 2017-01-18 <hr/> Date	
Checked By	 <hr/> (Ricky Liu) / Reviewer	2017-02-08 <hr/> Date	



3 Test Summary

Test	Test Requirement	Test method	Result
Antenna Requirement	FCC PART 15 C section 15.247 (c) and Section 15.203	FCC PART 15 C section 15.247 (c) and Section 15.203	PASS
6 dB Bandwidth	FCC PART 15 C section 15.247 (a)(2)	ANSI C63.10: Clause 11.8	PASS
Maximum Peak Output Power	FCC PART 15 C section 15.247(b)(3)	ANSI C63.10: Clause 11.9	PASS
Peak Power Spectral Density	FCC PART 15 C section 15.247(e)	ANSI C63.10: Clause 11.10	PASS
Conducted Spurious Emission	FCC PART 15 C section 15.209 &15.247(d)	ANSI C63.10: Clause 11.11	PASS
Radiated Spurious Emission	FCC PART 15 C section 15.209	ANSI C63.10: Clause 11.12,6.3,6.5 and 6.6	PASS**
Radiated Emissions which fall in the restricted bands	FCC PART 15 C section 15.209 &15.247(d)	ANSI C63.10: Clause 11.12,6.3,6.5 and 6.6	PASS
Band Edges Measurement	FCC PART 15 C section 15.247 (d) &15.205	ANSI C63.10: Clause 11.13	PASS
Remark1:			
N/A: not applicable. Refer to the relative section for the details. EUT: In this whole report EUT means Equipment Under Test. Tx: In this whole report Tx (or tx) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radio Frequency. ANSI C63.10: the detail version is ANSI C63.10:2013 in the whole report. Conducted testing use a direct connection between the antenna port of the device and the spectrum analyzer, may through suitable attenuator, all the attenuation in the conducted RF path, include cable loss or external attenuation will be offset to the spectrum analyzer during testing. Detailed offset value, please refer to the corresponding test plot.			



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5 General Information

5.1 Client Information

Applicant: Shenzhen Dongdixin Technology Co., Ltd.
Address of Applicant: No.3 Building XiliBaimang Xusheng Industrial Estate 518108 Nanshan, Shenzhen china
Manufacturer: The same as applicant
Address of Manufacturer: The same as applicant
Factory: The same as applicant
Address of Factory: The same as applicant

5.2 General Description of E.U.T.

Product Description: Smart Pain Reliever
Model No.: LT5019

5.3 Details of E.U.T.

Operating Frequency 2402 MHz to 2480 MHz
Type of Modulation: GFSK
DSSS with Adaptive
Equipment types: (Only one adaptive mode is implemented and could not operate in a non-adaptive mode.)
Number of Channels 40 Channels
Channel Separation: 2 MHz
Duty Cycle: Continuous operation possible for testing purposes
Antenna Type Integral antenna
Antenna gain: 0dBi
Speciality: Bluetooth 4.0 Smart (BLE mode)
Power Supply: Internal rechargeable battery : DC 3.7V
Adapter parameter:
Model No.:AKN1G-0500030VU
Input :AC 100-240V,50/60Hz,0.2A
Output: DC 5V,0.3A



5.4 Description of Support Units

The EUT has been tested with corresponding accessories as below:

Supplied by SGS:

Description	Manufacturer	Model No.	SN/Certificate NO
NoteBook	IBM	T30	S/N78-3VMLX 06/01

Using the special software and development board we can enter the product for engineer mode then we can control the EUT to select the wanted channel for test. The test board and PC are only to configure the engineer mode and not used to final test.

5.5 Deviation from Standards

Biconical and log periodic antennas were used instead of dipole antennas.

5.6 Abnormalities from Standard Conditions

None.

5.7 Other Information Requested by the Customer

None.

5.8 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663
Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

5.9 Measurement Uncertainty

No.	Item	Measurement uncertainty
1	Conducted emission	1.02dB(9kHz to 150kHz)
		1.05dB(150kHz to 30MHz)
2	Radiated emission	5.06dB(30MHz to 1GHz)
		5.06dB(1GHz to 26GHz)



5.10 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

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.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC (Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., 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 282399, May 31, 2002.

- **Industry Canada (Registration No.: 4620B-1)**

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

- **VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)**

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.: R-2460, C-2584, G-449 and T-1179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



6 Equipment List

RE in Chamber						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0525	Compact Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	N/A	2016-12-04	2019-12-03
EMC0522	EMI Test Receiver	Rohde & Schwarz	ESIB26	100283	2017-01-20	2018-01-19
EMC0056	EMI Test Receiver	Rohde & Schwarz	ESCI	100236	2017-01-20	2018-01-19
EMC0528	RI High frequency Cable	SGS	20 m	N/A	2016-04-19	2018-04-18
EMC2025	Trilog Broadband Antenna 30-1000MHz	SCHWARZBECK MESS-ELEKTRONIK	VULB 9160	9160-3372	2016-09-08	2019-09-07
SEM003-18	Trilog Broadband Antenna 25-2000MHz	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	665	2016-06-29	2019-06-28
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	2016-09-08	2019-09-07
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	2014-05-04	2017-05-03
EMC2026	Horn Antenna 1-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	9120D-841	2016-09-09	2019-09-08
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A01649	2017-01-20	2018-01-19
EMC2065	Amplifier	HP	8447F	N/A	2016-07-04	2017-07-03
EMC2086	PRE AMPLIFIER MH648A	ANRITSU CORP	MH648A	N/A	2016-12-02	2017-12-01
EMC2063	Pre-amplifier 1GHz-26GHz	Compliance Direction Systems Lnc.	PAP-1G26-48	6279.628	2016-12-02	2017-12-01
EMC0523	Active Loop Antenna	EMCO	6502	42963	2016-02-27	2018-02-26
EMC2041	Broad-Band Horn Antenna (14)15-26.5(40)GHz	SCHWARZBECK MESS-ELEKTRONI	BBHA 9170	9170-375	2014-05-26	2017-05-25
EMC2079	High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	009	2017-01-20	2018-01-19
EMC2069	2.4GHz Filter	Micro-Tronics	BRM 50702	149	2017-01-20	2018-01-19
EMC0530	10m Semi-Anechoic Chamber	ETS	N/A	N/A	2016-04-30	2018-04-29



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General used equipment						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0006	DMM	Fluke	73	70681569	2016-09-01	2017-08-31
EMC0007	DMM	Fluke	73	70671122	2016-08-22	2017-08-21



7 Test Results

7.1 E.U.T. test conditions

Test Voltage: DC 3.7V
Temperature: 20.0 -25.0 °C
Humidity: 38-50 % RH
Atmospheric Pressure: 1000 -1010 mbar

Requirements: **15.31(e):** For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.
15.32: Power supplies and CPU boards used with personal computers and for which separate authorizations are required to be obtained shall be tested as follows: Testing shall be in accordance with the procedures specified in Section 15.31 of this part.

Test frequencies and frequency range: According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

According to the 15.33 (a) For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:



Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified



EUT channels and frequencies list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	27	2456
1	2404	28	2458
2	2406	29	2460
3	2408	30	2462
4	2410	31	2464
5	2412	32	2466
6	2414	33	2468
7	2416	34	2470
8	2418	35	2472
9	2420	36	2474
10	2422	37	2476
11	2424	38	2478
12	2426	39	2480
13	2428	40	/
14	2430	41	/
15	2432	42	/
16	2434	43	/
17	2436	44	/
18	2438	45	/
19	2440	46	/
20	2442	47	/
21	2444	48	/
22	2446	49	/
23	2448	50	/
24	2450	51	/
25	2452	52	/
26	2454	53	/

Using the special software and development board we can enter the product for engineer mode then we can control the EUT to select the wanted channel for test as above list.

Test frequencies are the lowest channel: 0 channel(2402MHz), middle channel: 20 channel(2442 MHz) and highest channel: 39 channel(2480 MHz)

7.2 Antenna Requirement

Standard requirement

15.203 requirement:

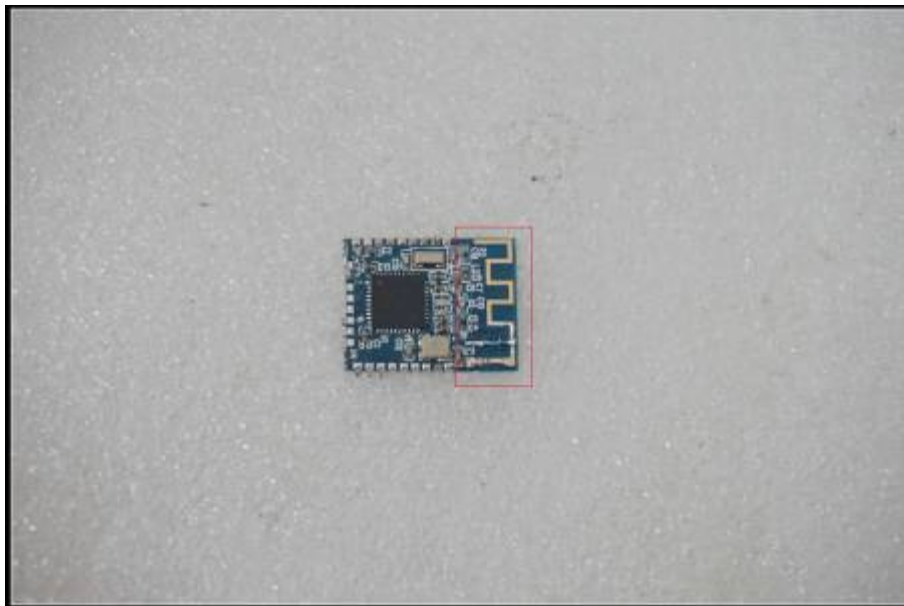
For intentional device. According to 15.203. an intentional radiator shall be designed to Ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz bands that are used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna

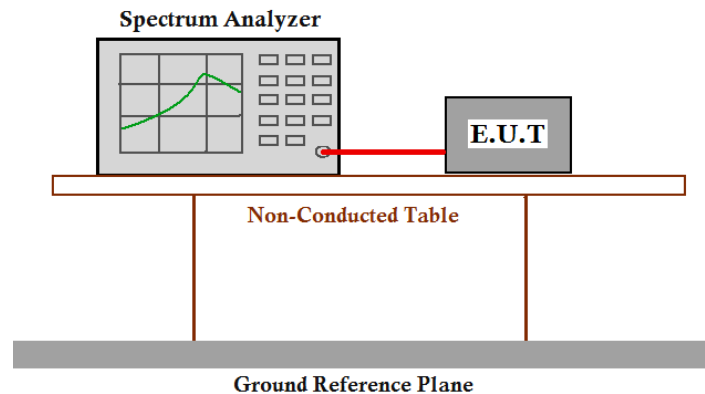
The antenna is PCB Layout antenna and no consideration of replacement. The best case gain of the antenna is 0dBi.



Test result: The unit does meet the FCC requirements.

7.3 6 dB Bandwidth

Test Requirement:	FCC Part 15 C section 15.247 (a)(2) Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10: Clause 11.8
Test Status:	Enter test mode for the product. Test in Channel lowest (2402MHz), middle (2442MHz) and highest (2480MHz), keep in continuously transmitting status.
Test Configuration:	



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW=100 kHz. VBW = 300 kHz. Sweep = auto; Detector Function = Peak. Trace = Max Hold, Set span to encompass the entire emission bandwidth of the signal.
3. Mark the peak power frequency and -6dB (upper and lower) power frequency.
4. Repeat until all the test status is investigated.
5. Report the worse case.

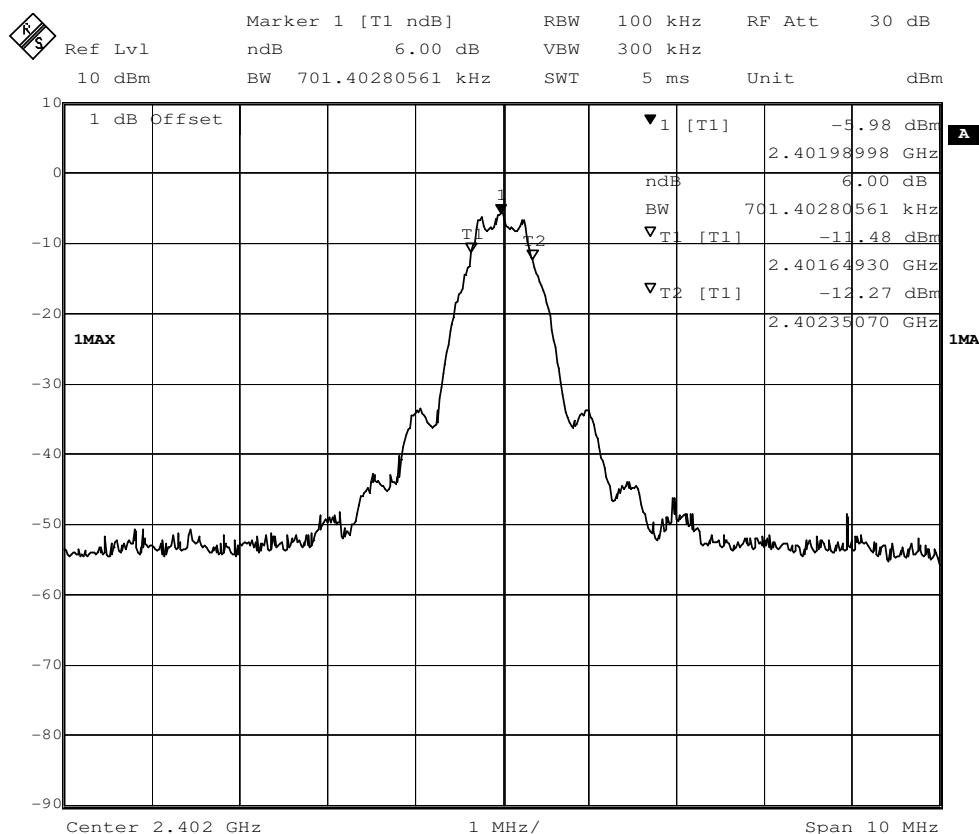


0	2402	GFSK	701.402	≥500KHz	Pass
19	2440		721.442		Pass
39	2480		721.442		Pass

Test result: The unit does meet the FCC requirements.

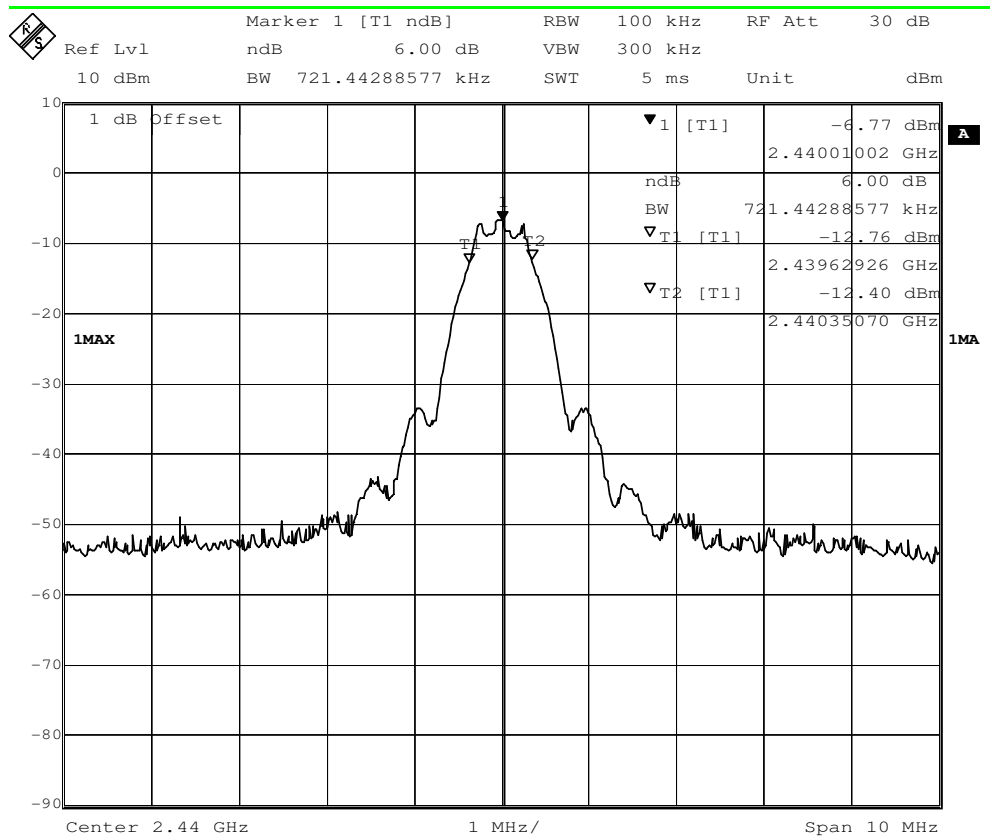
Result plot as follows:

Channel 0:2.402GHz:



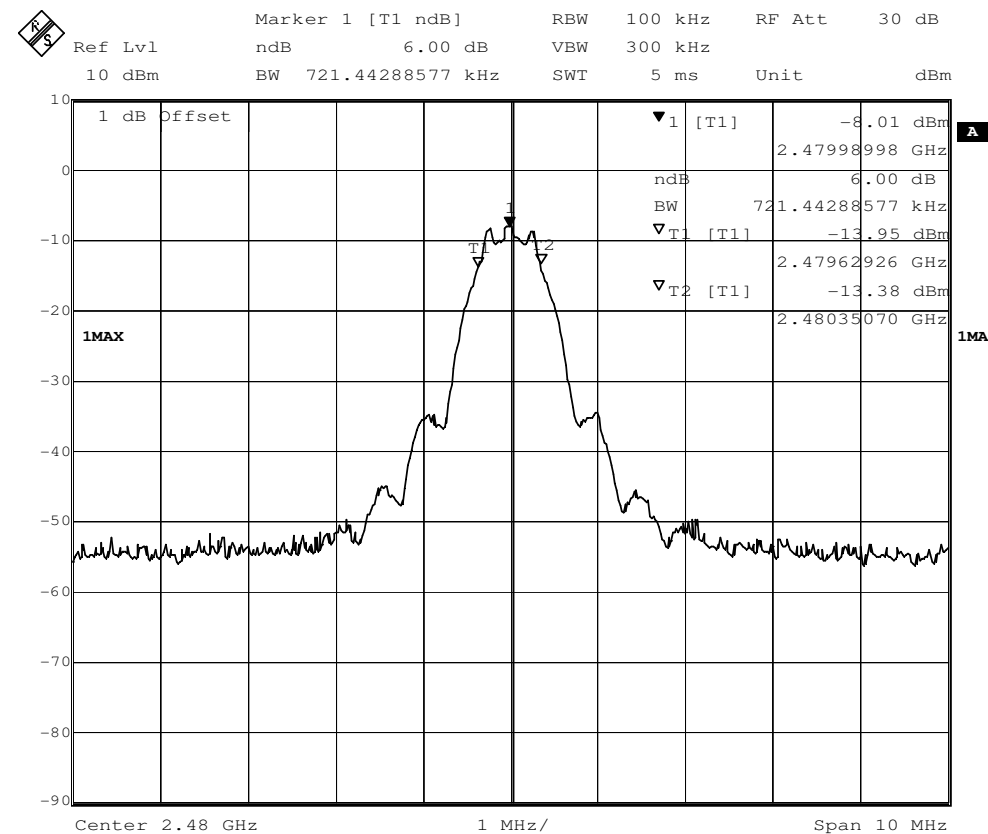


Channel 19:2.440GHz:



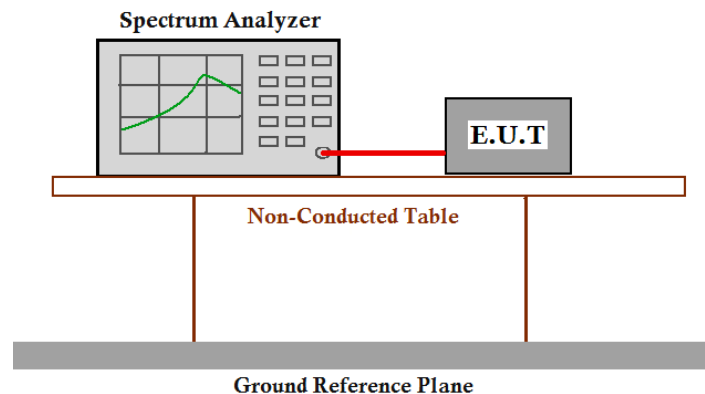


Channel 39:2.480GHz:



7.4 Maximum Peak Output Power

Test Requirement:	FCC Part 15 C section 15.247 (b)(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. 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.
Test Method:	ANSI C63.10: Clause 11.9
Test Status:	Enter test mode for the product. Test in Channel lowest (2402MHz), middle (2442MHz) and highest (2480MHz), keep in continuously transmitting status.
Test Configuration:	





Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable from the antenna port to the spectrum.
2. Set the RBW \geq DTS. bandwidth.
3. Set the VBW $\geq 3 \times$ RBW
4. Set the span $\geq 3 \times$ RBW
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. . Use peak marker function to determine the peak amplitude level.

Report the worse case.

Test result:

Channel No.	Frequency (MHz)	Mode	Data Rate	Measured Channel Power (dBm)	Limit	Result
0	2402	GFSK	1Mbps	-5.88	1W(30dBm)	Pass
19	2440		1Mbps	-6.75		Pass
39	2480		1Mbps	-8.18		Pass

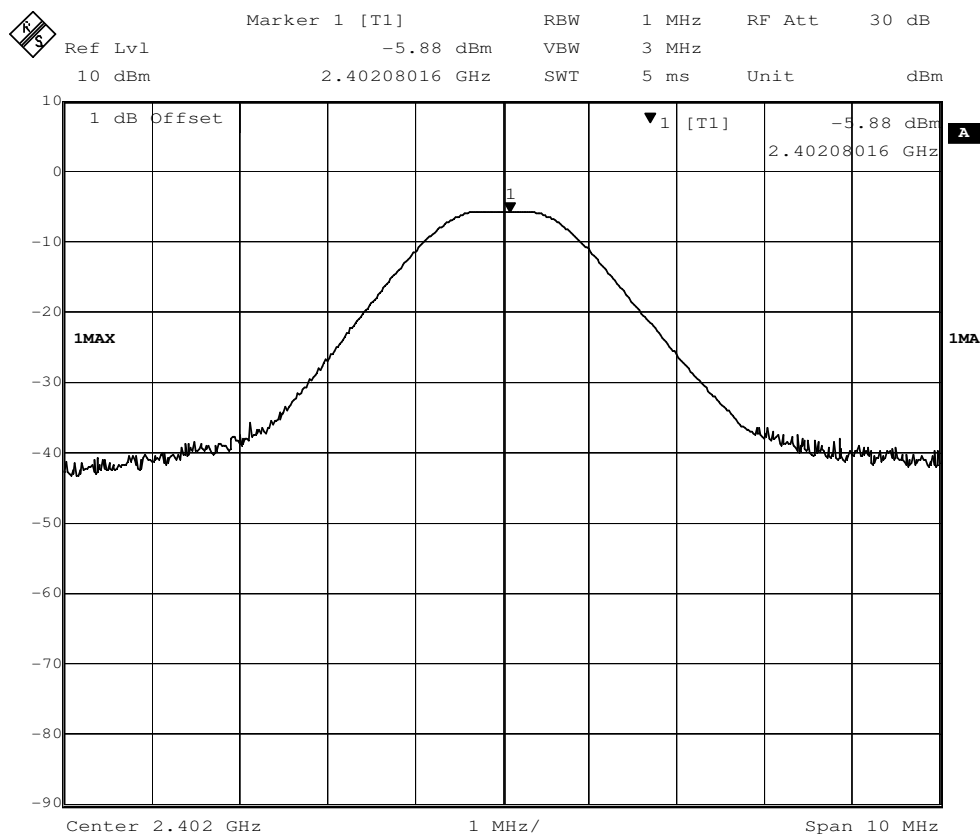
Remark: Level = Read Level + Cable Loss

The unit does meet the FCC requirements.



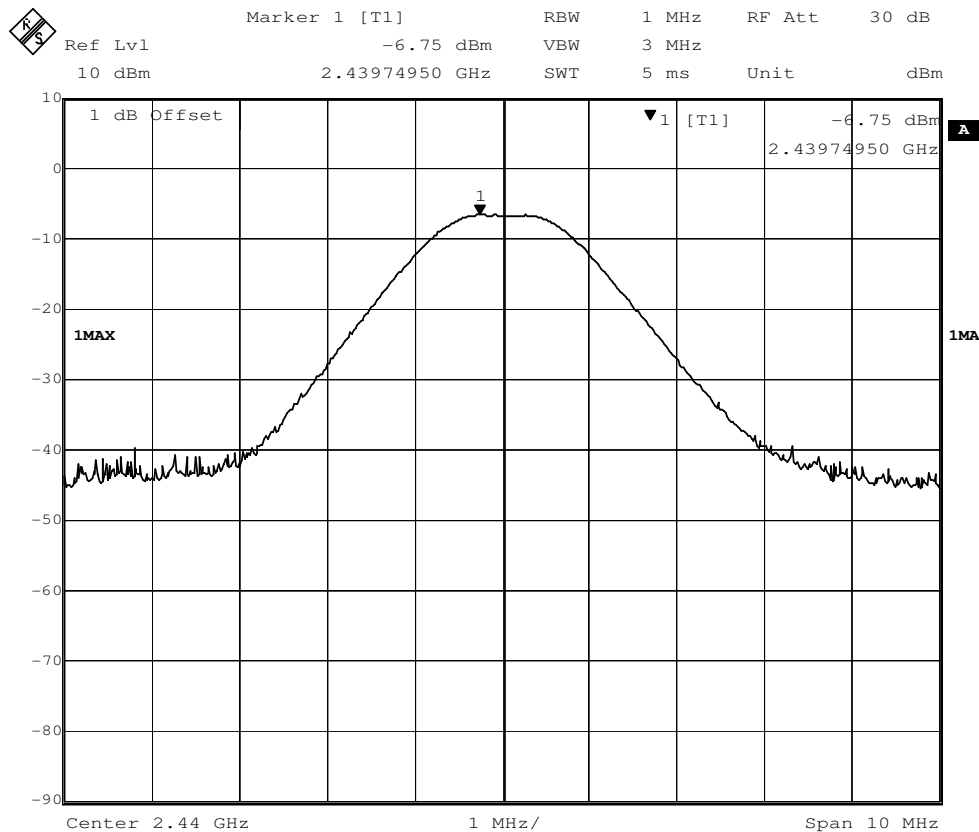
Result plot as follows:

Channel 0:2.402GHz:



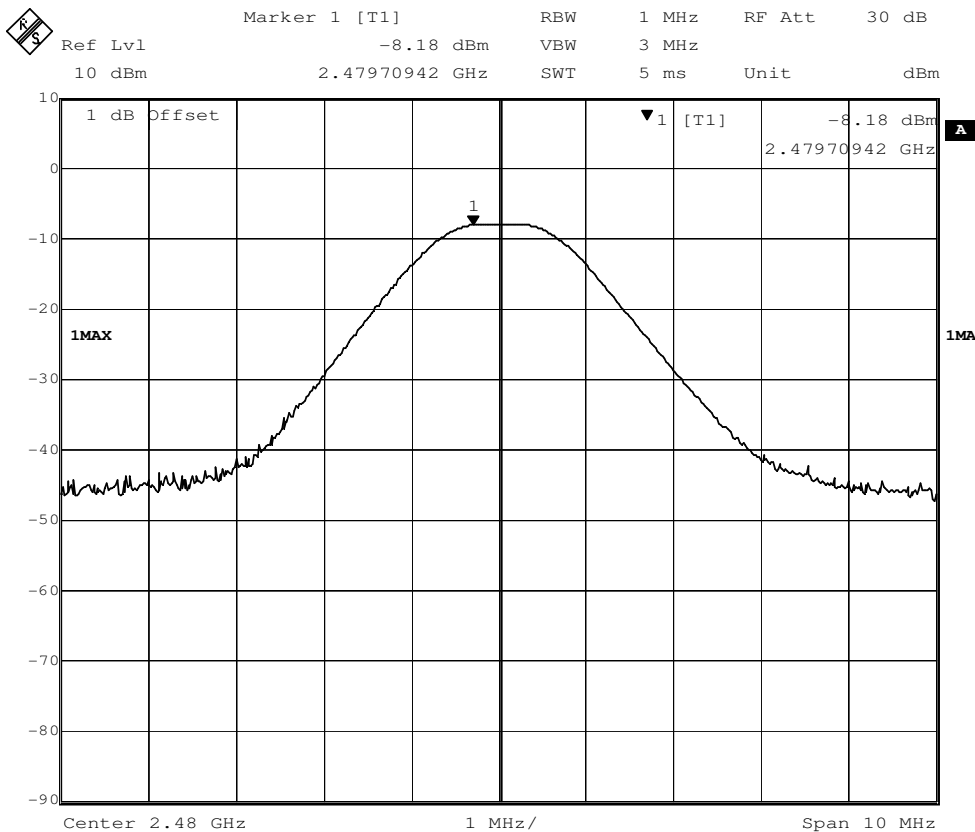


Channel 19:2.440GHz:



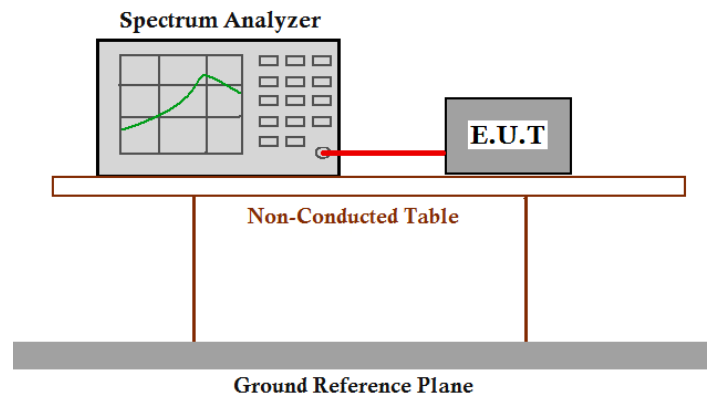


Channel 39:2.480GHz:



7.5 Peak Power Spectral Density

Test Requirement:	FCC Part 15 C section 15.247 (e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10: Clause 11.10
Test Status:	Enter test mode for the product. Test in lowest Channel 2402MHz, middle Channel 2442MHz and highest Channel 2480MHz, keep in continuously transmitting status.
Test Configuration:	



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable from the antenna port to the spectrum analyzer or power meter.
2. Set the spectrum analyzer: RBW=3 kHz.
3. VBW $\geq 3 \times$ RBW sweep= Auto couple; Set the span to 1.5 times the DTS bandwidth.
4. Detector Function = Peak. Trace = Max Hold, Centre = the Peak Power of the signal.
5. Measure the Power Spectral Density of the test frequency with special test status.
6. Repeat until all the test status is investigated.
7. Report the worse case.

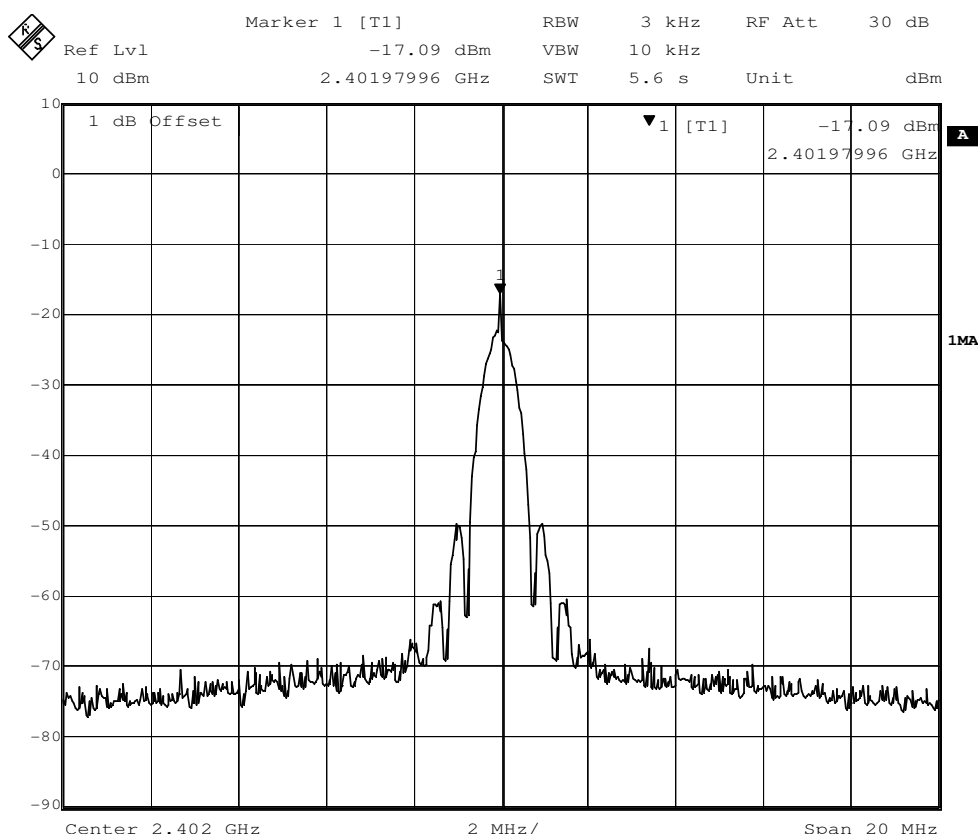


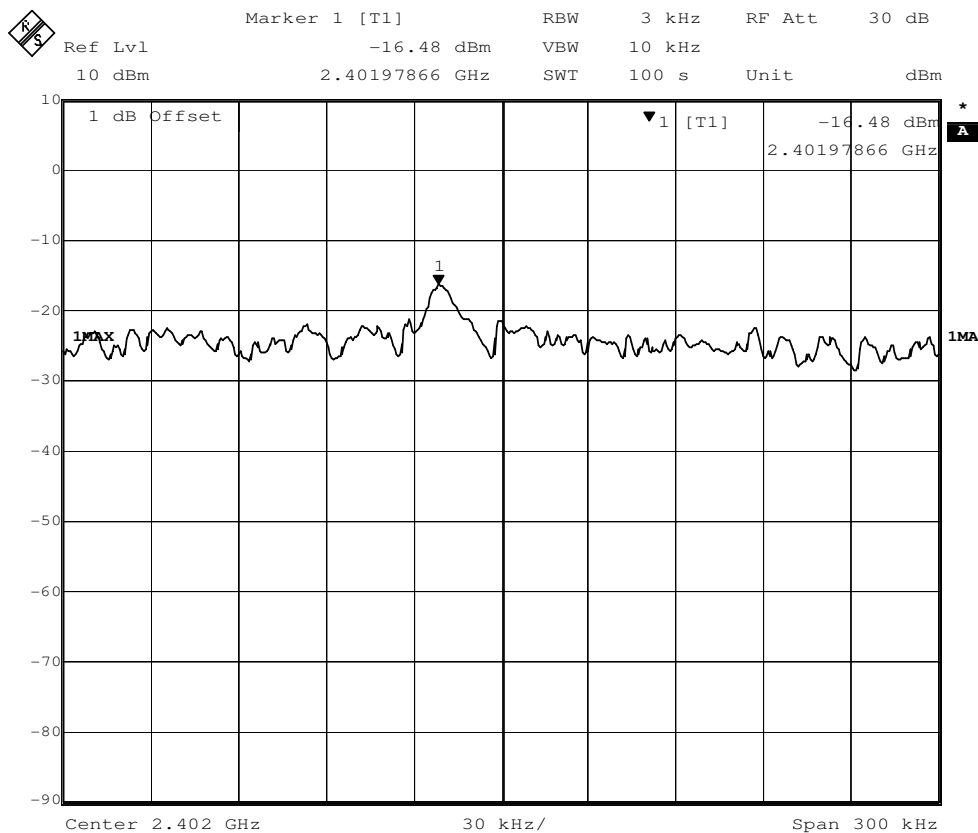
Channel No.	Frequency (MHz)	Mode	Data Rate	Measured Peak Power Spectral Density (dBm/3KHz)	Limit	Result
0	2402	GFSK	1 Mbps	-16.48	8dBm/3KHz	Pass
19	2440		1 Mbps	-17.65		Pass
39	2480		1 Mbps	-19.55		Pass

Test result: Level = Read Level + Cable Loss.
The unit does meet the FCC requirements.

Result plot as follows:

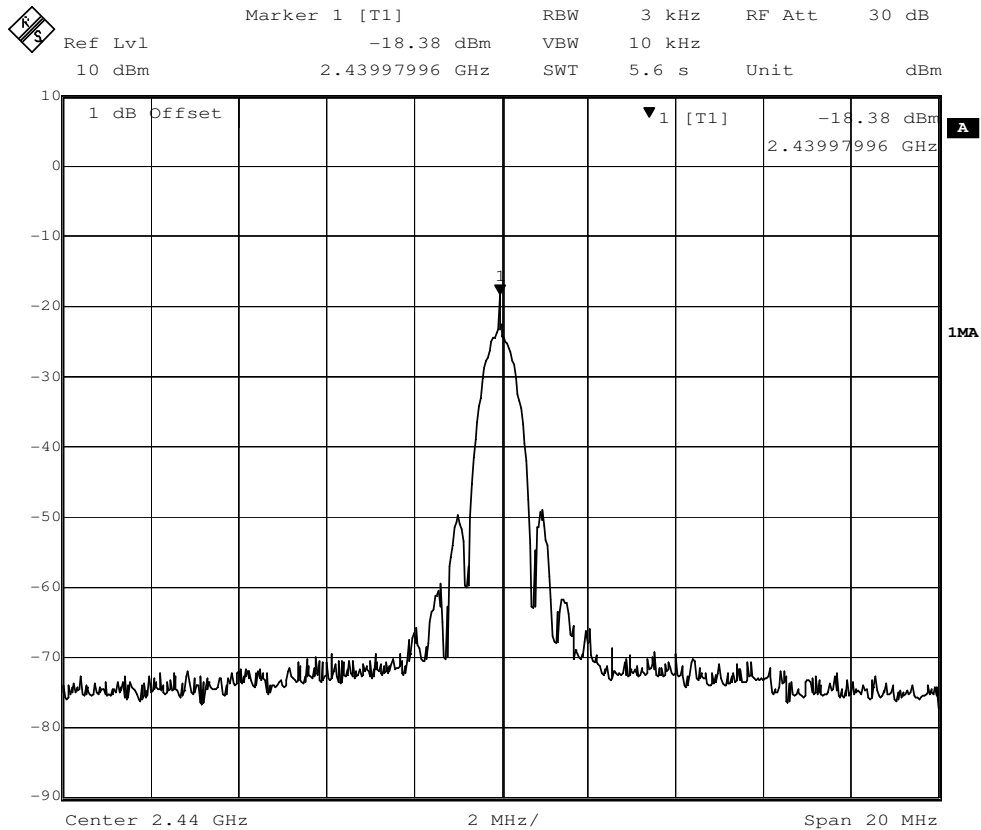
Channel 0:2.402 GHz:

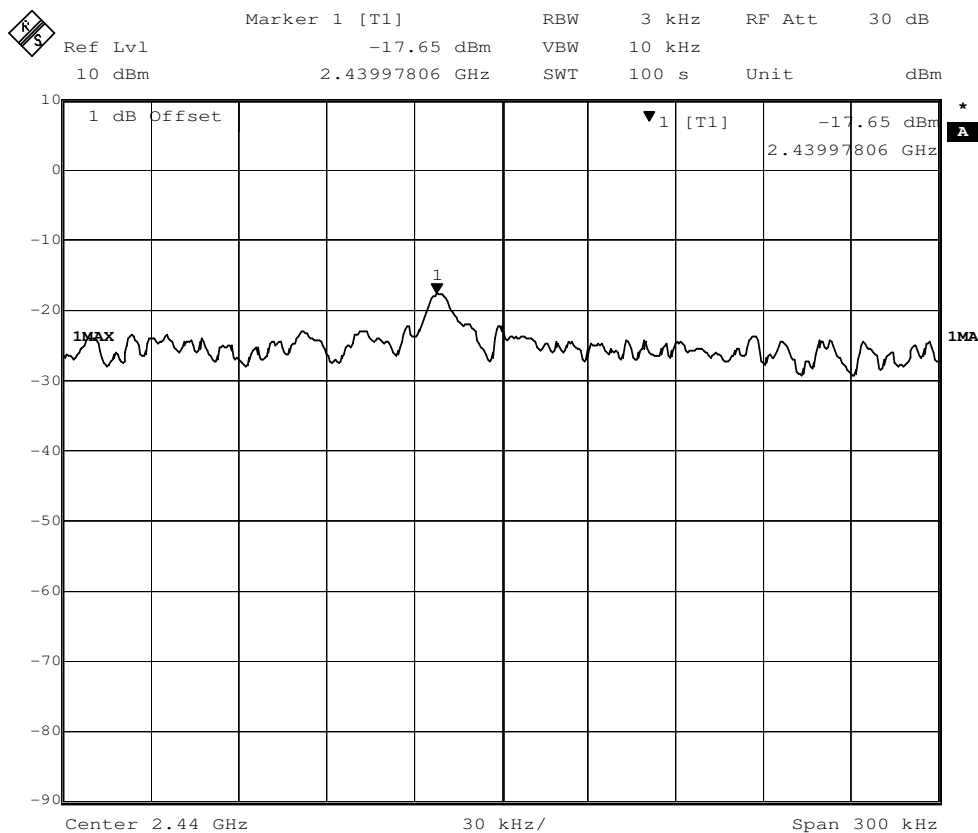






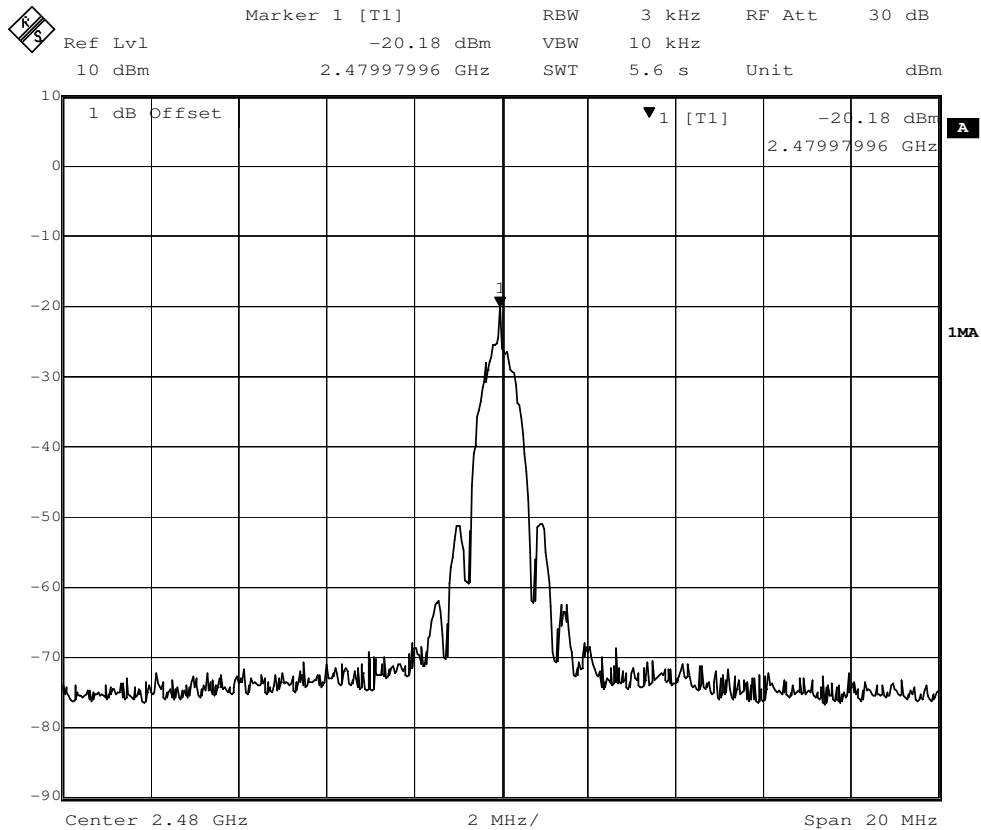
Channel 19:2.440 GHz:

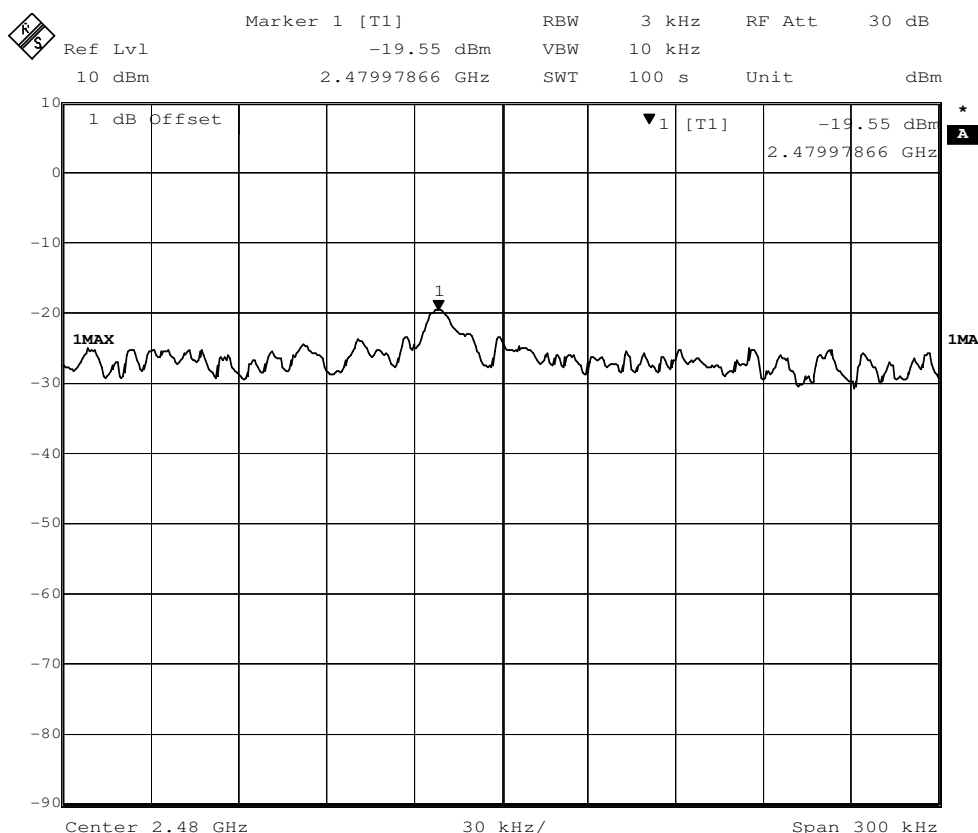






Channel 39:2.480 GHz:





7.6 Conducted Spurious Emissions

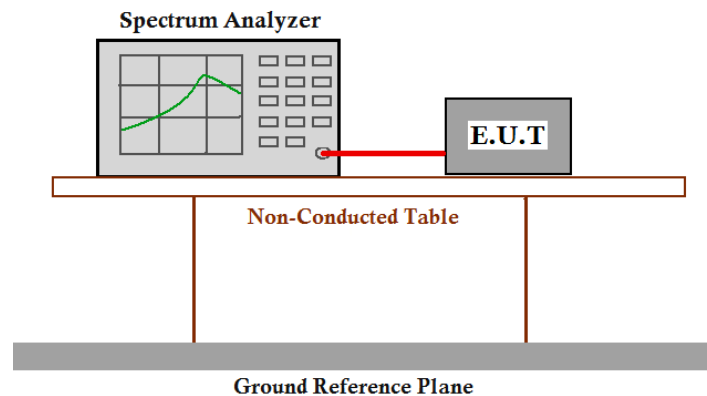
Test Requirement: FCC Part 15 C section 15.247

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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. Provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Method: ANSI C63.10: Clause 11.11

Test Status: Enter test mode for the product. Test in lowest Channel 2402MHz, middle Channel 2442MHz and highest Channel 2480MHz, keep in continuously transmitting status.

Test Configuration:



Test Procedure:

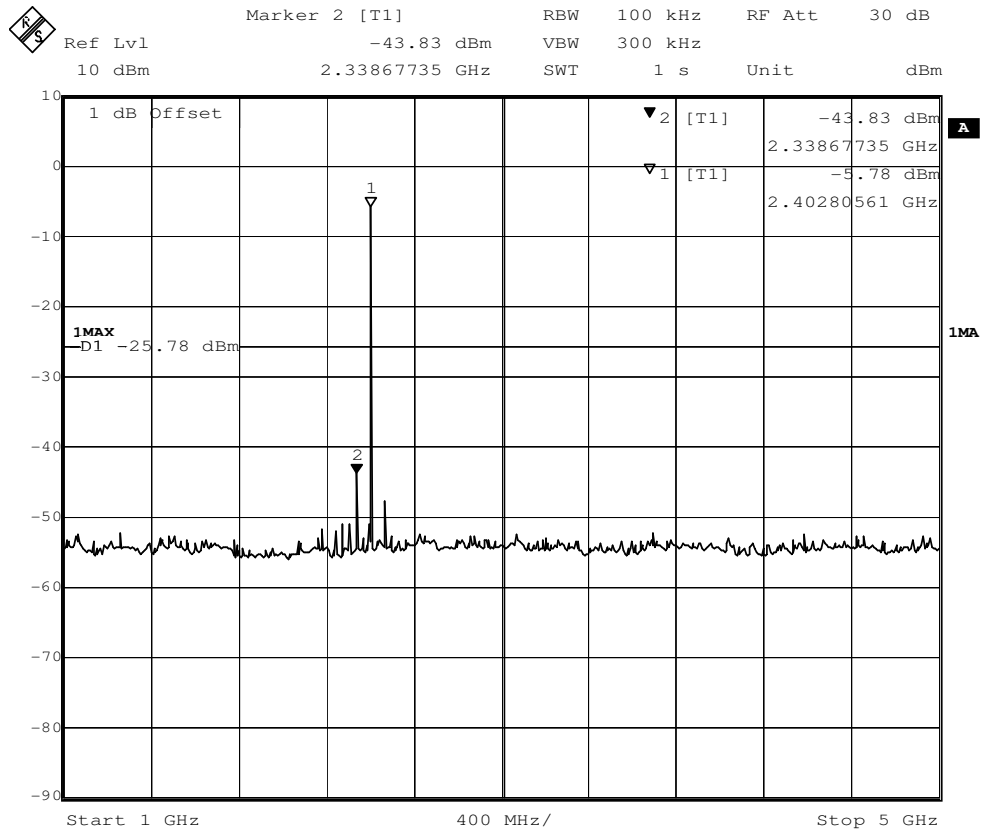
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
2. Set the spectrum analyzer: RBW=100 KHz, VBW = 300KHz. Sweep = auto; Detector Function = Peak. Trace = Max Hold, Scan up through 10th harmonic.
3. Measure the Conducted Spurious Emissions of the test frequency with special test status.
4. Repeat until all the test status is investigated.
5. Report the worse case.



Result plot as follows:

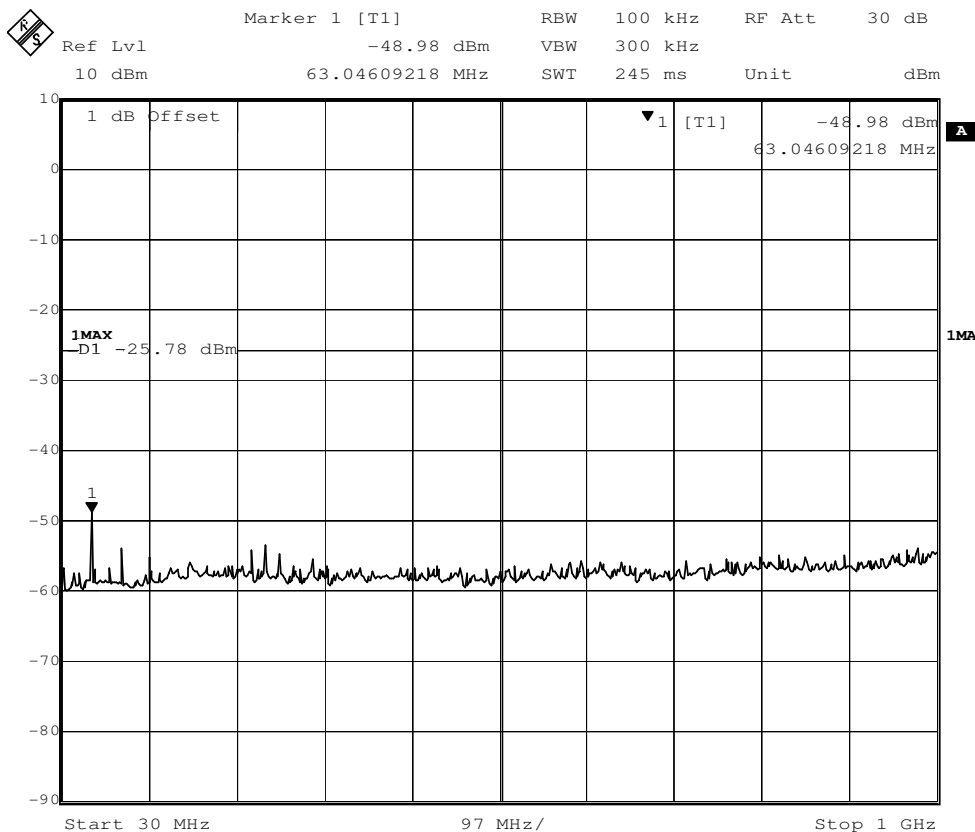
Channel 0: 2.402 GHz

1GHz to 5GHz



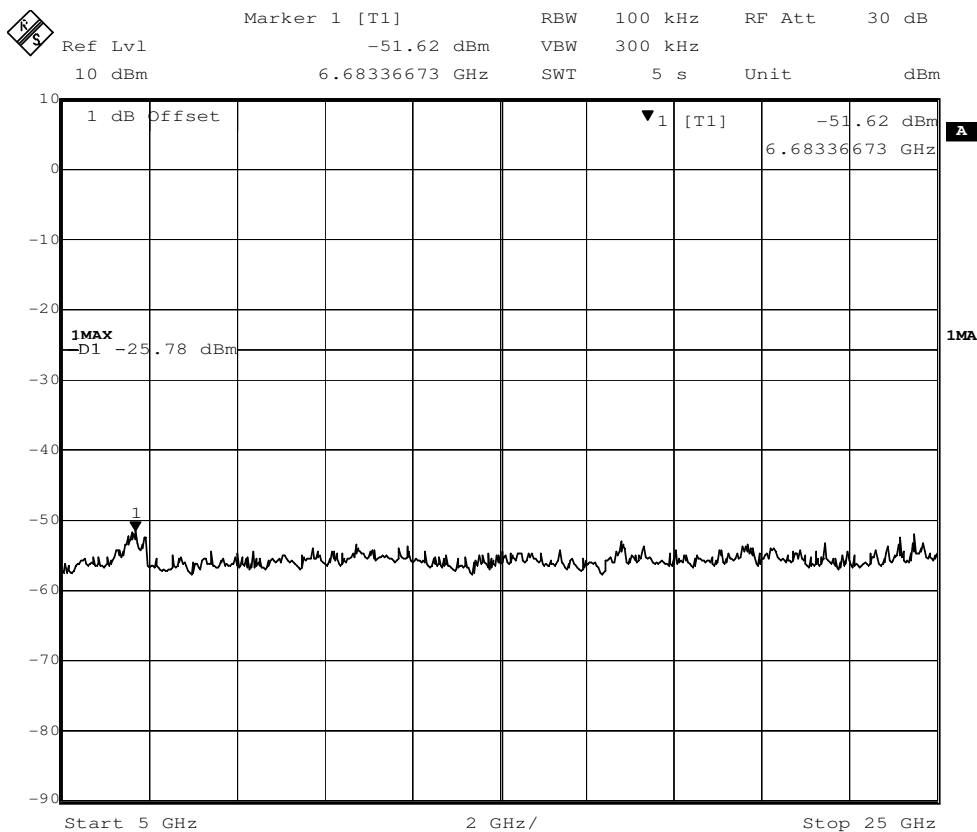


30 MHz to 1GHz





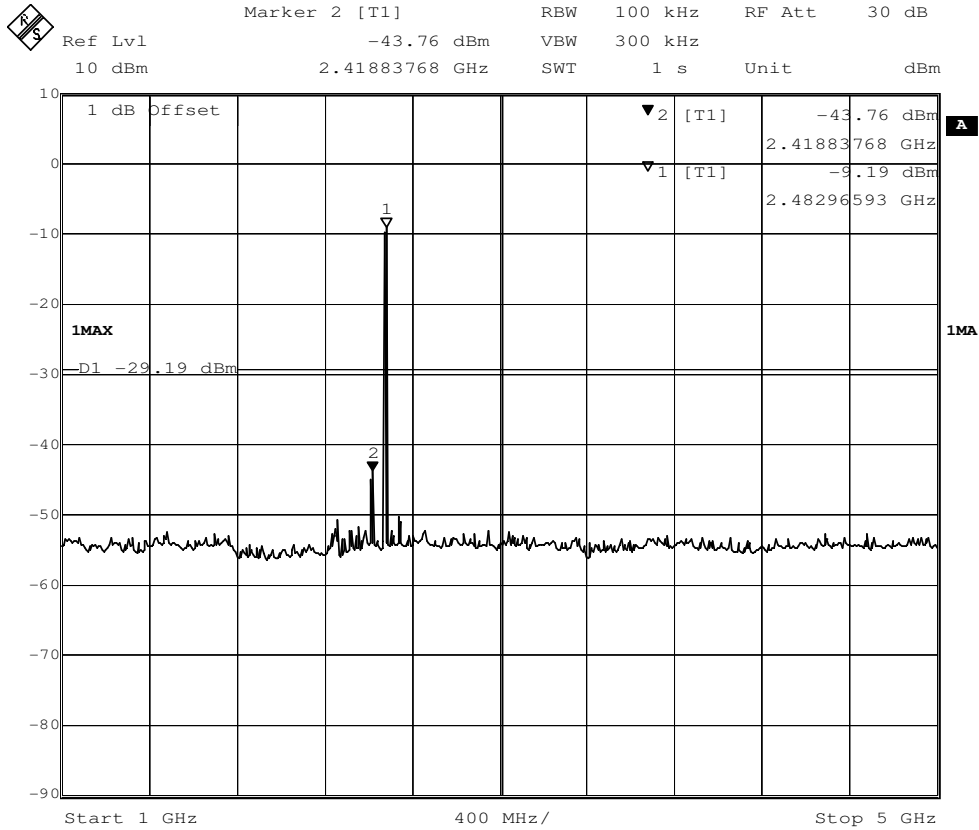
5GHz to 25GHz





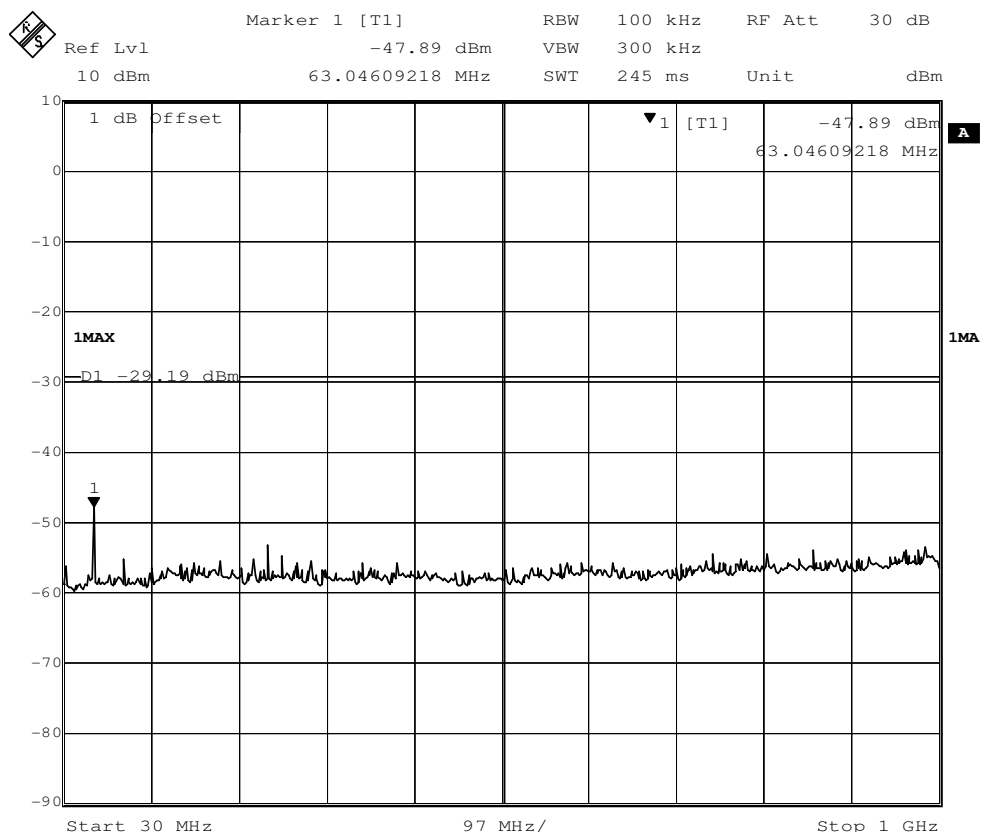
Channel 19:2.440GHz

1GHz to 5GHz



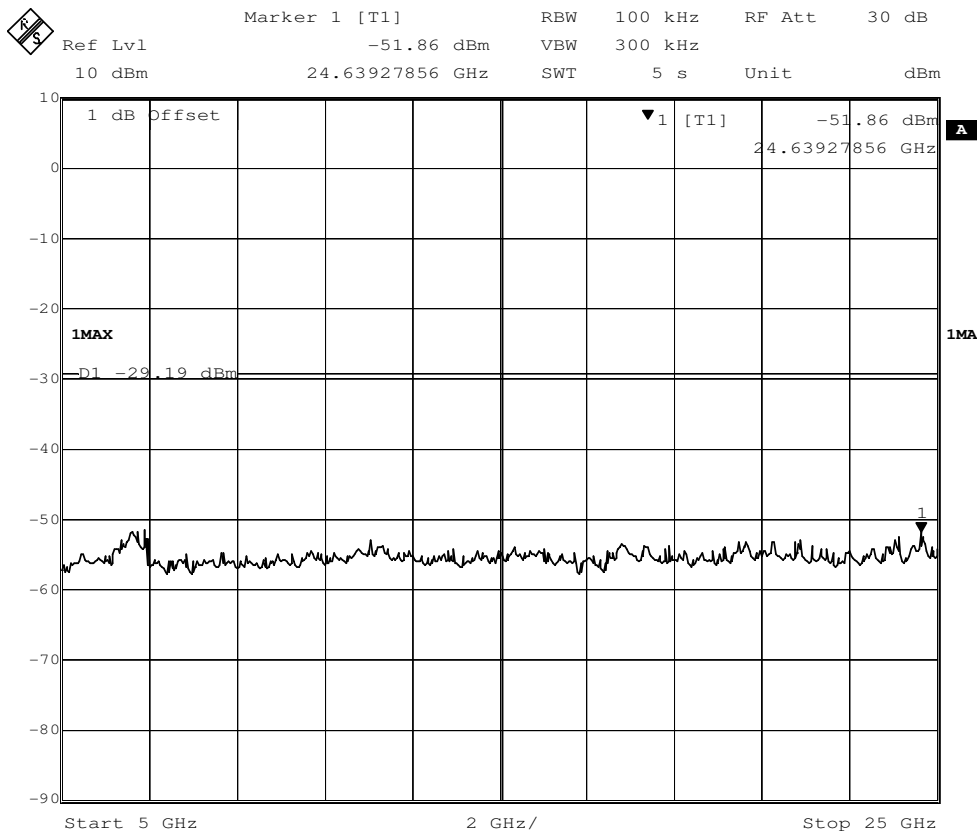


30 MHz to 1GHz





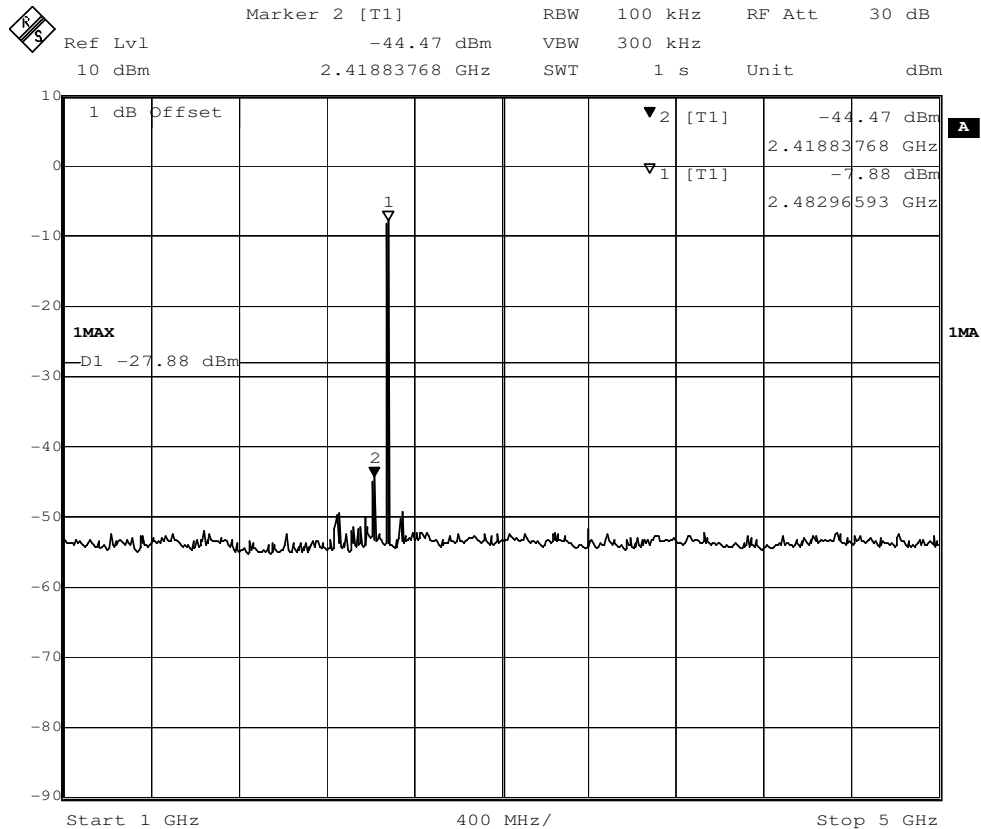
5GHz to 25GHz





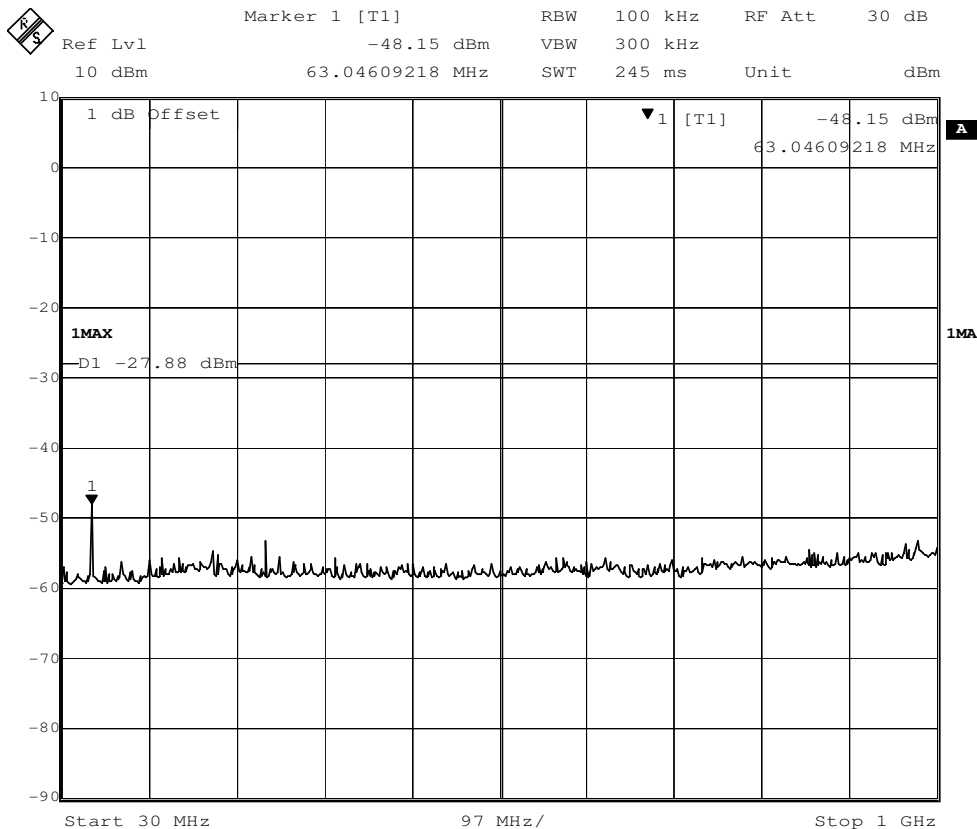
Channel 39:2.480GHz

1GHz to 5GHz



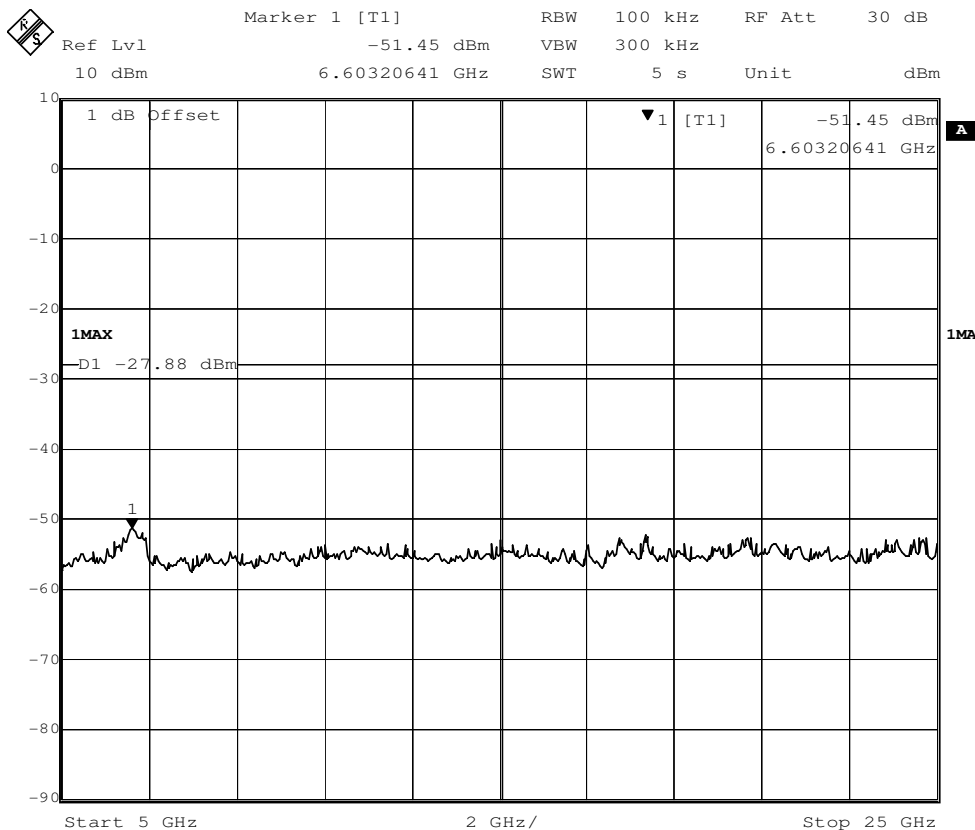


30 MHz to 1GHz





5GHz to 25GHz





7.7 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Site:	Measurement Distance:3m (Semi-Anechoic Chamber below 1GHz, Full Anechoic Chamber above 1GHz)				
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
	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.				

Test Setup:

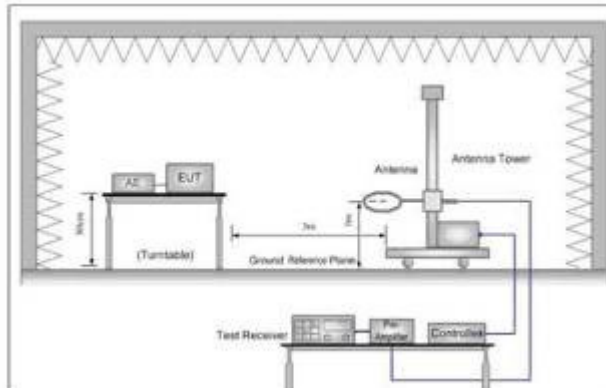


Figure 1. Below 30MHz

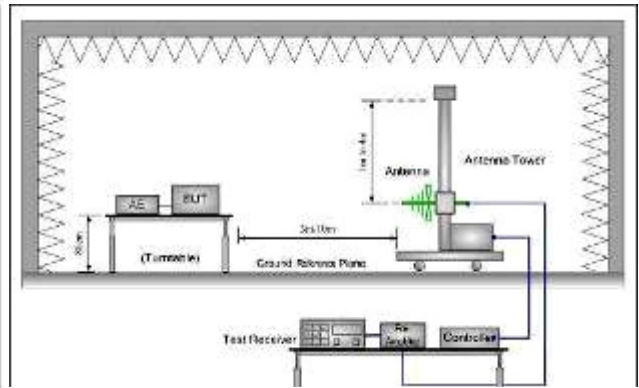


Figure 2. 30MHz to 1GHz

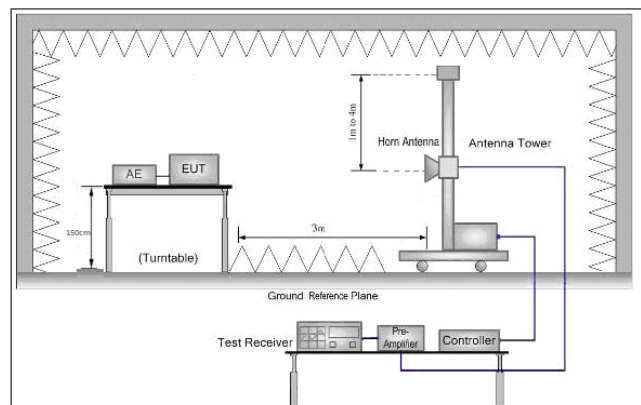


Figure 3. Above 1 GHz



Test Procedure:	<ul style="list-style-type: none">a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 and 10 meter semi-anechoic chamber. 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 full-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degree 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 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 (2442MHz), 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.
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Exploratory Test Mode:	Transmitting with GFSK modulation. a. Charge + Transmitting mode. b. Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode and Transmitting mode For below 1GHz part, through pre-scan, the worst case is the lowest channel Charge + Transmitting mode Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass

Test Result:

1. Lowest Channel

9KHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

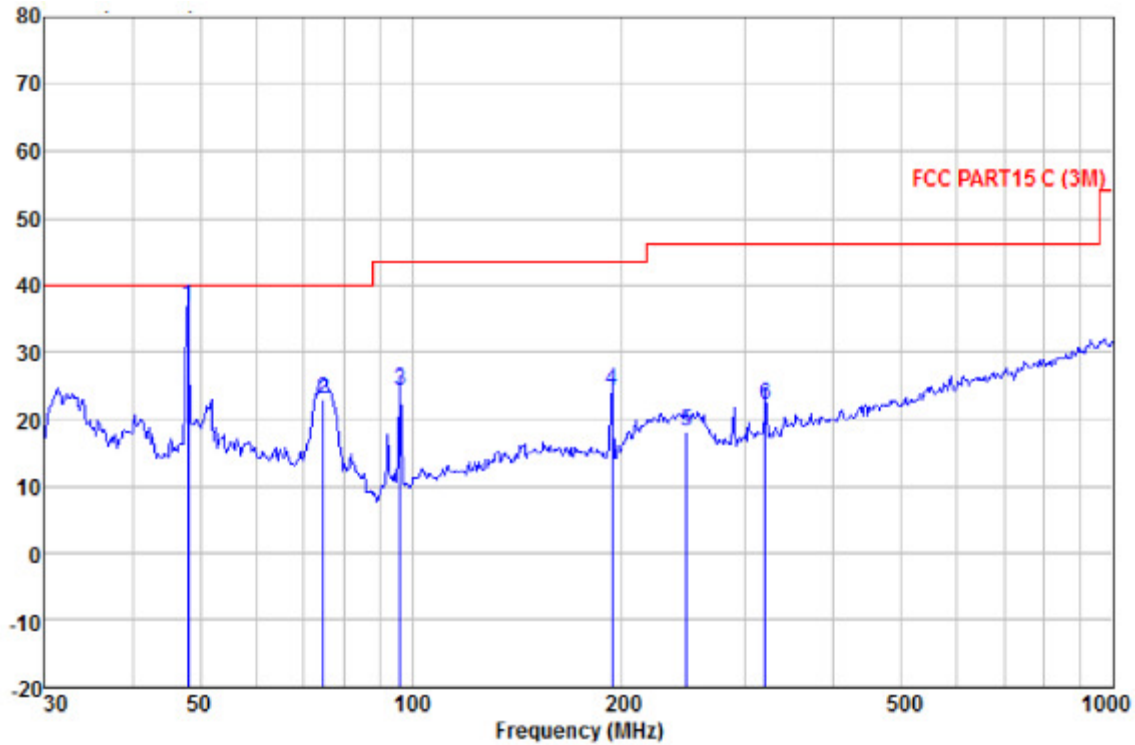
The measurements with Loop antenna and the amplitude of spurious emissions from the radiator are attenuated more than 20dB below the limit, so the test data were not recorded in the test report.

30MHz~1GHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with Log antenna.



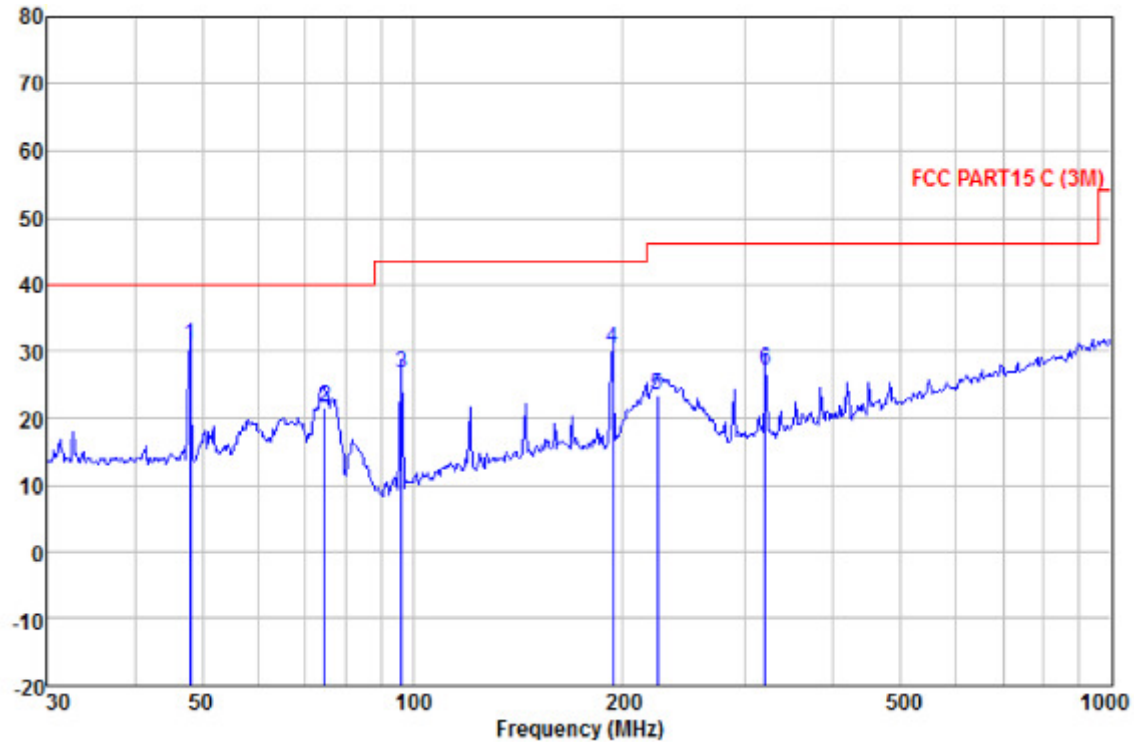
Lowest channel/ Vertical:



Freq	ReadAntenna	Cable	Preamp		Limit	Over	
Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
48.004	48.17	14.41	1.26	27.00	36.84	40.00	-3.16 QP
74.919	37.26	11.15	1.60	27.00	23.01	40.00	-16.99 QP
96.436	40.53	8.73	1.87	26.97	24.16	43.50	-19.34 QP
193.095	36.56	11.62	2.66	26.61	24.23	43.50	-19.27 QP
246.815	28.97	12.50	3.05	26.46	18.06	46.00	-27.94 QP
319.937	31.00	14.22	3.52	26.55	22.19	46.00	-23.81 QP



Lowest channel /Horizontal:



Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
47.994	42.30	14.41	1.26	27.00	30.97	40.00	-9.03	QP
74.919	35.83	11.15	1.60	27.00	21.58	40.00	-18.42	QP
96.436	42.96	8.73	1.87	26.97	26.59	43.50	-16.91	QP
193.095	42.65	11.62	2.66	26.61	30.32	43.50	-13.18	QP
223.733	35.65	11.40	2.86	26.51	23.40	46.00	-22.60	QP
319.937	36.10	14.22	3.52	26.55	27.29	46.00	-18.71	QP



Above 1GHz Field Strength of Unwanted Emissions. Peak & Average Measurement

Lowest channel		Peak Measurement:						
Frequency (MHz)	Reading Level (dBμV)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Antenna polarization
4804.11	56.98	30.79	9.95	40.21	57.51	74.00	-16.49	V
7206.36	39.27	35.45	12.73	39.25	48.20	74.00	-25.80	V
9608.43	34.72	37.51	14.48	37.97	48.74	74.00	-25.26	V
12010.86	33.97	39.50	15.80	38.08	51.19	74.00	-22.81	V
4804.14	56.90	30.79	9.95	40.21	57.43	74.00	-16.57	H
7206.36	41.15	35.45	12.73	39.25	50.08	74.00	-23.92	H
9608.45	37.17	37.51	14.48	37.97	51.19	74.00	-22.81	H
12010.38	35.63	39.50	15.80	38.08	52.85	74.00	-21.15	H

Lowest channel		Average Measurement:						
Frequency (MHz)	Reading Level (dBμV)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Antenna polarization
4804.11	51.14	30.79	9.95	40.21	51.67	54.00	-2.33	V
7206.36	30.51	35.45	12.73	39.25	39.44	54.00	-14.56	V
9608.43	26.58	37.51	14.48	37.97	40.60	54.00	-13.40	V
12010.86	25.59	39.50	15.80	38.08	42.81	54.00	-11.19	V
4804.14	51.11	30.79	9.95	40.21	51.64	54.00	-2.36	H
7206.36	32.77	35.45	12.73	39.25	41.70	54.00	-12.30	H
9608.45	24.83	37.51	14.48	37.97	38.85	54.00	-15.15	H
12010.38	24.56	39.50	15.80	38.08	41.78	54.00	-12.22	H



Above 1GHz Field Strength of Unwanted Emissions. Peak & Average Measurement

Middle channel		Peak Measurement:						
Frequency (MHz)	Reading Level (dBμV)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Antenna polarization
4884.72	59.26	30.95	10.02	40.22	60.01	74.00	-13.99	V
7326.56	39.73	35.74	12.93	39.22	49.18	74.00	-24.82	V
9768.49	35.31	37.74	14.44	37.90	49.59	74.00	-24.41	V
12210.32	35.12	39.21	16.05	38.10	52.28	74.00	-21.72	V
4844.32	55.58	30.88	9.99	40.21	56.24	74.00	-17.76	H
7326.59	39.68	35.74	12.93	39.22	49.13	74.00	-24.87	H
9768.49	36.52	37.74	14.44	37.90	50.80	74.00	-23.20	H
12210.53	34.15	39.21	16.05	38.10	51.31	74.00	-22.69	H

Middle channel		Average Measurement:						
Frequency (MHz)	Reading Level (dBμV)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Antenna polarization
4884.72	50.27	30.95	10.02	40.22	51.02	54.00	-2.98	V
7326.56	31.57	35.74	12.93	39.22	41.02	54.00	-12.98	V
9768.49	27.17	37.74	14.44	37.90	41.45	54.00	-12.55	V
12210.32	25.08	39.21	16.05	38.10	42.24	54.00	-11.76	V
4884.32	51.13	30.95	10.02	40.22	51.88	54.00	-2.12	H
7326.59	30.95	35.74	12.93	39.22	40.40	54.00	-13.60	H
9768.49	27.48	37.74	14.44	37.90	41.76	54.00	-12.24	H
12210.53	24.28	39.21	16.05	38.10	41.44	54.00	-12.56	H



Above 1GHz Field Strength of Unwanted Emissions. Peak & Average Measurement

Highest channel		Peak Measurement:						
Frequency (MHz)	Reading Level (dBμV)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Antenna polarization
4960.92	58.82	31.05	10.07	40.23	59.71	74.00	-14.29	V
7440.26	38.75	35.92	13.04	39.20	48.51	74.00	-25.49	V
9920.46	37.96	37.92	14.41	37.84	52.45	74.00	-21.55	V
12400.34	34.78	38.93	16.29	38.12	51.88	74.00	-22.12	V
4960.72	50.83	31.05	10.07	40.23	51.72	74.00	-22.28	H
7440.32	39.90	35.92	13.04	39.20	49.66	74.00	-24.34	H
9920.56	35.59	37.92	14.41	37.84	50.08	74.00	-23.92	H
12400.76	35.67	38.93	16.29	38.12	52.77	74.00	-21.23	H

Highest channel		Average Measurement:						
Frequency (MHz)	Reading Level (dBμV)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Antenna polarization
4960.92	50.47	31.05	10.07	40.23	51.36	54.00	-2.64	V
7440.26	29.28	35.92	13.04	39.20	39.04	54.00	-14.96	V
9920.46	28.13	37.92	14.41	37.84	42.62	54.00	-11.38	V
12400.34	24.01	38.93	16.29	38.12	41.11	54.00	-12.89	V
4960.72	50.43	31.05	10.07	40.23	51.32	54.00	-2.68	H
7440.32	30.85	35.92	13.04	39.20	40.61	54.00	-13.39	H
9920.56	28.07	37.92	14.41	37.84	42.56	54.00	-11.44	H
12400.76	26.29	38.93	16.29	38.12	43.39	54.00	-10.61	H



7.8 Radiated Emissions which fall in the restricted bands

Test Requirement: FCC Part 15 C section 15.247

(d) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Test Method: ANSI C63.10.2013

Test Status: Enter test mode for the product. Test in lowest channel 2402 MHz and highest channel 2480 MHz, keep in continuously transmitting status with GFSK modulation.

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

Detector:

For PK value:

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

For AV value:

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW = 10Hz

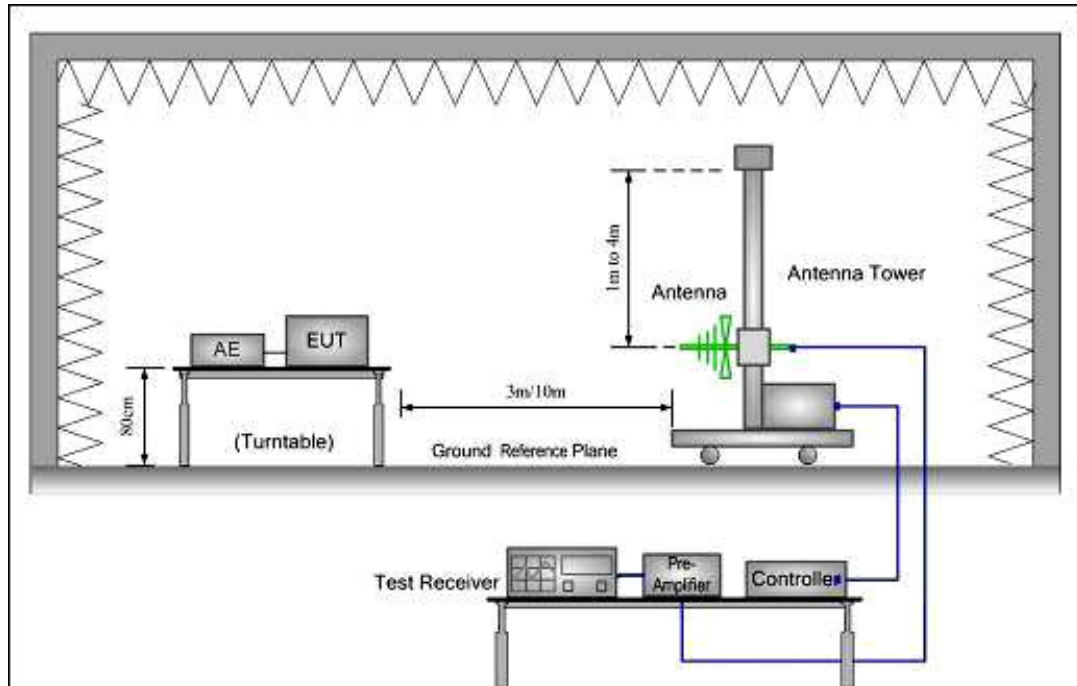
Sweep = auto

Detector function = peak

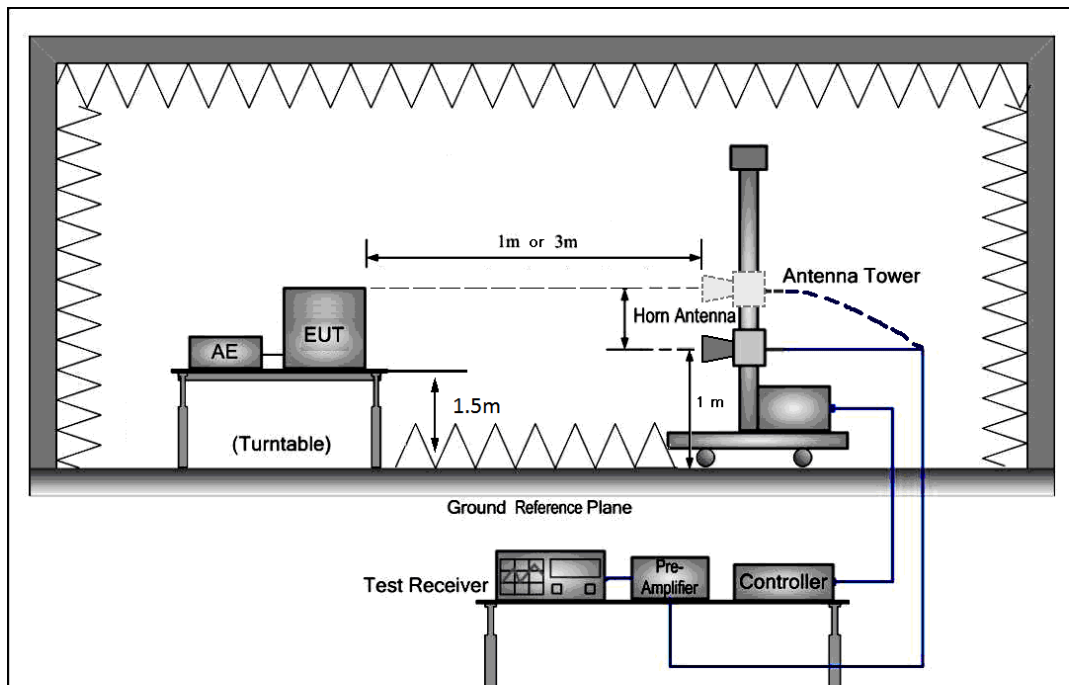
Trace = max hold

Test Configuration:

1). 30 MHz to 1 GHz emissions:



2). Above 1 GHz emissions:



Test Procedure:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called



out in CISPR 16-1-4:2010 was used to perform radiated emission test above 1 GHz.

The receiver scanned from the lowest frequency generated within the EUT to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

From 30MHz to 1GHz, read the Quasi-Peak field strength of the emissions with receiver QP detector RBW=120KHz.

Above 1GHz, read the Peak field strength and Average field strength.

Read the Peak field strength through RBW=1MHz, VBW=3MHz in spectrum analyzer setting;

Read the Average field strength through RBW=1MHz, VBW=10Hz in spectrum analyzer setting;

While maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the average field strength reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit.

Section 15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section. only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12



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8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	
13.36 - 13.41	322 - 335.4		

Test Result:

Above 1GHz Radiated Emissions. Peak & Average Measurement

Lowest channel		Peak Measurement:						
Frequency (MHz)	Reading Level (dBμV)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Antenna polarization
2310.00	42.68	26.25	6.80	39.07	36.66	74.00	-37.34	V
2390.00	43.39	26.43	6.87	39.10	37.59	74.00	-36.41	V
2483.50	43.23	26.58	7.07	39.14	37.74	74.00	-36.26	V
2500.00	42.86	26.60	7.10	39.14	37.42	74.00	-36.58	V
2310.00	42.49	26.25	6.80	39.07	36.47	74.00	-37.53	H
2390.00	43.06	26.43	6.87	39.10	37.26	74.00	-36.74	H
2483.50	42.01	26.58	7.07	39.14	36.52	74.00	-37.48	H
2500.00	42.31	26.60	7.10	39.14	36.87	74.00	-37.13	H

Lowest channel		Average Measurement:						
Frequency (MHz)	Reading Level (dBμV)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Antenna polarization
2310.00	33.33	26.25	6.80	39.07	27.31	54.00	-26.69	V
2390.00	33.95	26.43	6.87	39.10	28.15	54.00	-25.85	V
2483.50	32.25	26.58	7.07	39.14	26.76	54.00	-27.24	V
2500.00	32.96	26.60	7.10	39.14	27.52	54.00	-26.48	V
2310.00	33.13	26.25	6.80	39.07	27.11	54.00	-26.89	H
2390.00	34.12	26.43	6.87	39.10	28.32	54.00	-25.68	H
2483.50	31.34	26.58	7.07	39.14	25.85	54.00	-28.15	H
2500.00	31.20	26.60	7.10	39.14	25.76	54.00	-28.24	H



Above 1GHz Radiated Emissions. Peak & Average Measurement

Middle channel		Peak Measurement:						
Frequency (MHz)	Reading Level (dBμV)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Antenna polarization
2310.00	42.80	26.25	6.80	39.07	36.78	74.00	-37.22	V
2390.00	42.84	26.43	6.87	39.10	37.04	74.00	-36.96	V
2483.50	42.14	26.58	7.07	39.14	36.65	74.00	-37.35	V
2500.00	43.59	26.60	7.10	39.14	38.15	74.00	-35.85	V
2310.00	42.59	26.25	6.80	39.07	36.57	74.00	-37.43	H
2390.00	43.35	26.43	6.87	39.10	37.55	74.00	-36.45	H
2483.50	41.77	26.58	7.07	39.14	36.28	74.00	-37.72	H
2500.00	42.43	26.60	7.10	39.14	36.99	74.00	-37.01	H

Middle channel		Average Measurement:						
Frequency (MHz)	Reading Level (dBμV)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Antenna polarization
2310.00	33.43	26.25	6.80	39.07	27.41	54.00	-26.59	V
2390.00	32.46	26.43	6.87	39.10	26.66	54.00	-27.34	V
2483.50	32.64	26.58	7.07	39.14	27.15	54.00	-26.85	V
2500.00	34.92	26.60	7.10	39.14	29.48	54.00	-24.52	V
2310.00	33.45	26.25	6.80	39.07	27.43	54.00	-26.57	H
2390.00	34.28	26.43	6.87	39.10	28.48	54.00	-25.52	H
2483.50	31.13	26.58	7.07	39.14	25.64	54.00	-28.36	H
2500.00	31.70	26.60	7.10	39.14	26.26	54.00	-27.74	H

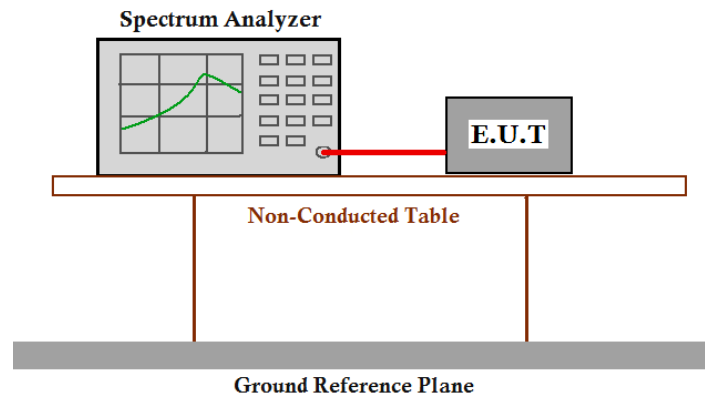


Above 1GHz Radiated Emissions. Peak & Average Measurement

Highest channel		Peak Measurement:						
Frequency (MHz)	Reading Level (dBμV)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Antenna polarization
2310.00	42.56	26.25	6.80	39.07	36.54	74.00	-37.46	V
2390.00	42.72	26.43	6.87	39.10	36.92	74.00	-37.08	V
2483.50	57.09	26.58	7.07	39.14	51.60	74.00	-22.40	V
2500.00	43.14	26.60	7.10	39.14	37.70	74.00	-36.30	V
2310.00	41.50	26.25	6.80	39.07	35.48	74.00	-38.52	H
2390.00	43.04	26.43	6.87	39.10	37.24	74.00	-36.76	H
2483.50	55.84	26.58	7.07	39.14	50.35	74.00	-23.65	H
2500.00	41.68	26.60	7.10	39.14	36.24	74.00	-37.76	H
Highest channel		Average Measurement:						
Frequency (MHz)	Reading Level (dBμV)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Antenna polarization
2310.00	32.43	26.25	6.80	39.07	26.41	54.00	-27.59	V
2390.00	33.42	26.43	6.87	39.10	27.62	54.00	-26.38	V
2483.50	47.63	26.58	7.07	39.14	42.14	54.00	-11.86	V
2500.00	34.55	26.60	7.10	39.14	29.11	54.00	-24.89	V
2310.00	30.65	26.25	6.80	39.07	24.63	54.00	-29.37	H
2390.00	33.97	26.43	6.87	39.10	28.17	54.00	-25.83	H
2483.50	45.60	26.58	7.07	39.14	40.11	54.00	-13.89	H
2500.00	32.68	26.60	7.10	39.14	27.24	54.00	-26.76	H
Test result: The unit does meet the FCC requirements.								

7.9 Band Edges Requirement

Test Requirement:	FCC Part 15 C section 15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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. Provided the transmitter demonstrates compliance with the peak conducted power limits.
Frequency Band:	2400 MHz to 2483.5 MHz
Test Method:	ANSI C63.10: Clause 11.13
Test Status:	Enter test mode for the product. Test in lowest channel 2402 MHz and highest channel 2480 MHz, keep in continuously transmitting status with GFSK modulation.
Test Configuration:	



Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
2. Set instrument center frequency to the frequency of the emission to be measured (must be within 2MHz of the authorized band edge).
3. Set span (wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation.),
4. RBW=100kHz,
5. VBW \geq 3 \times RBW
6. Detector=peak

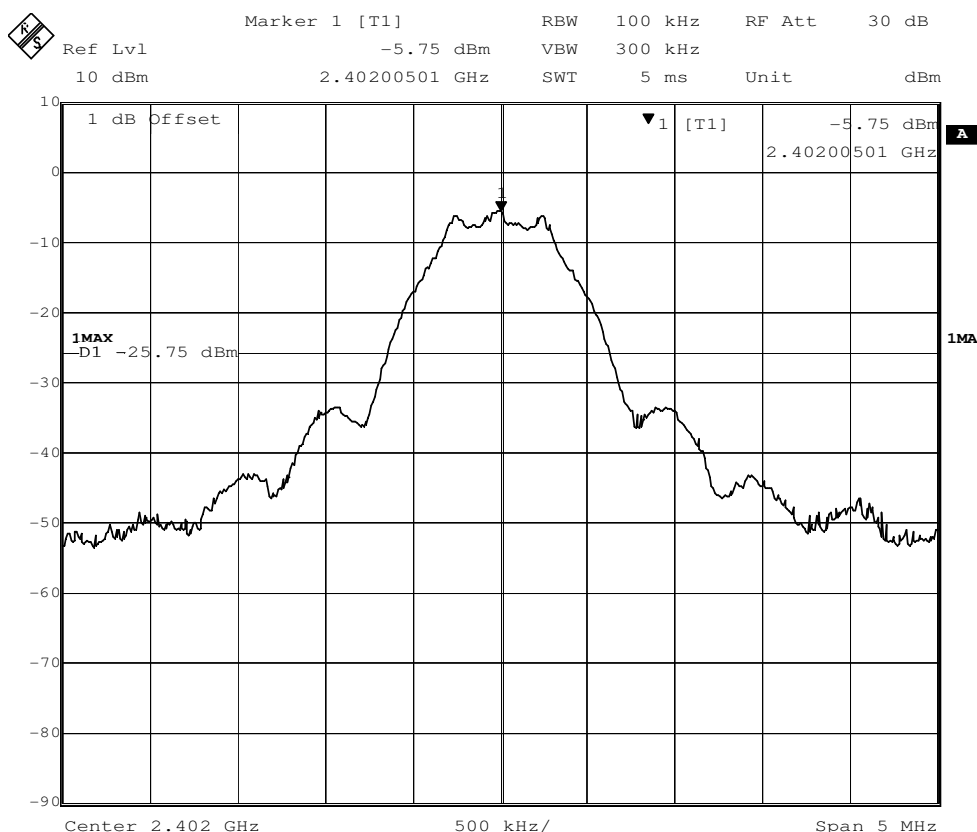
7. Sweep time =auto,
8. Trace mode=max hold.
9. Allow sweep to continue until the trace stabilizes(required measurement time may increase for low duty cycle applications)
10. Compute the power by integrating the spectrum over 1MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency($f_{\text{emission}} \pm 0.5\text{MHz}$). If the instrument does not have a band power function, the sum the amplitude levels(in power units) at 100kHz intervals extending across the 1MHz spectrum defined by $f_{\text{emission}} \pm 0.5\text{MHz}$.

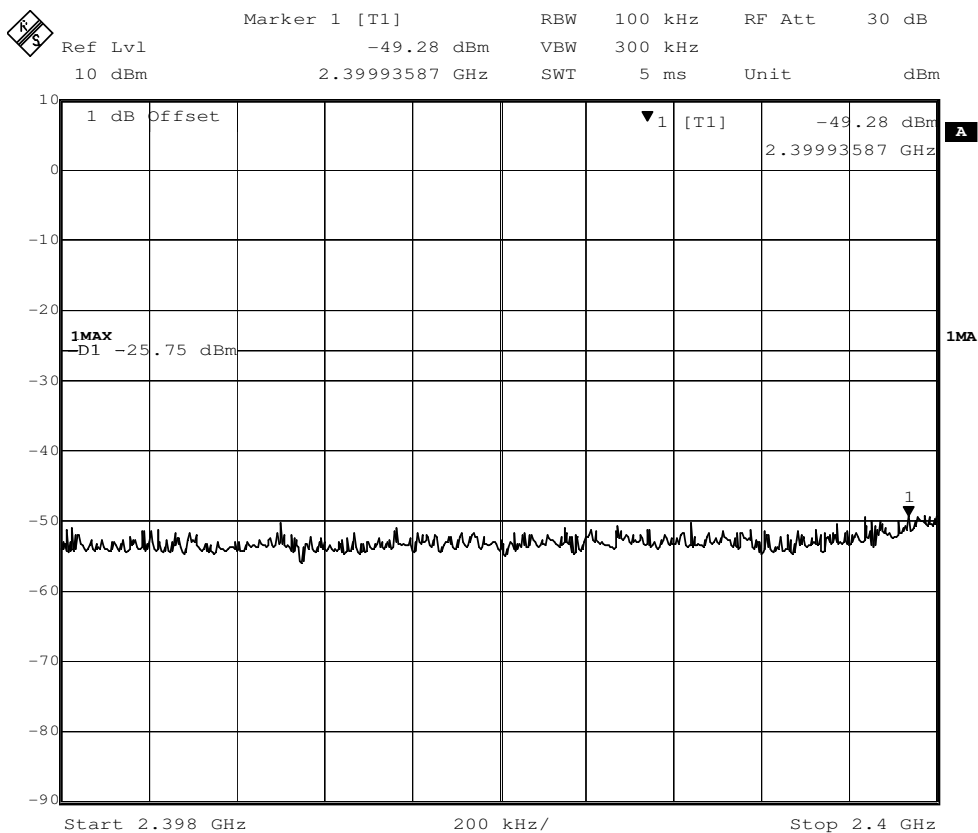
Test result with plots as follows:

Compare with the output power of the lowest frequency, the Lower Edges attenuated more than 20dB
Compare with the output power of the highest frequency, the Upper Edges attenuated more than 20dB.

Result plot as follows:

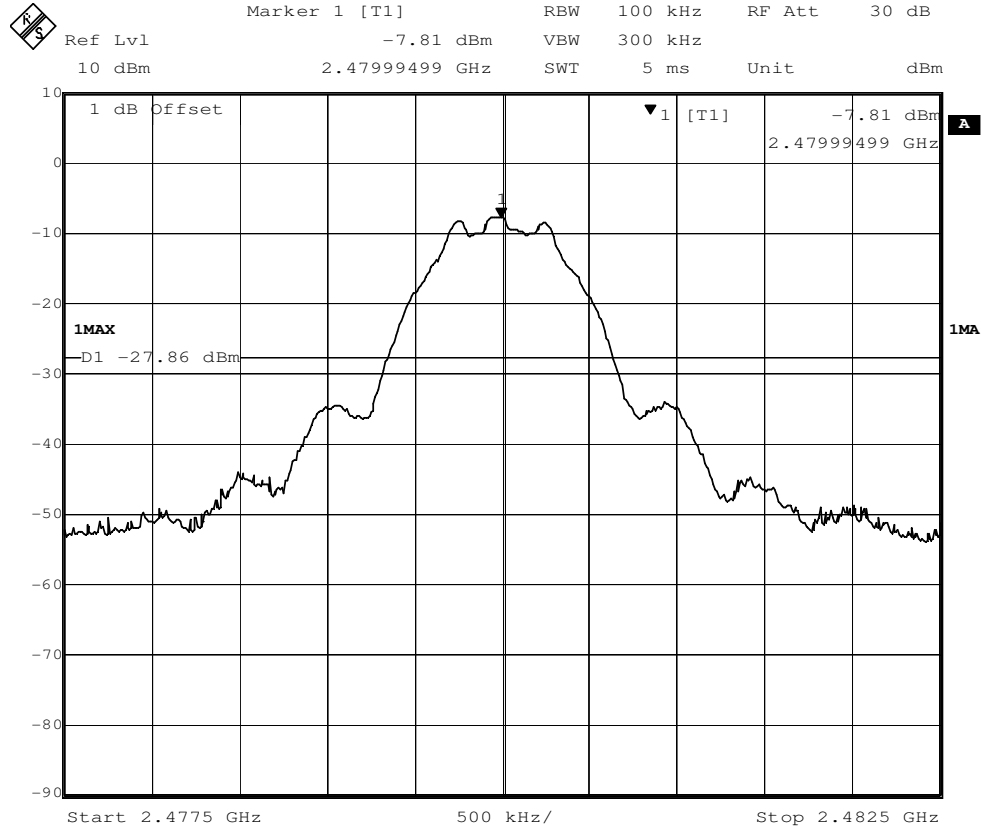
Channel 0: 2.402 GHz

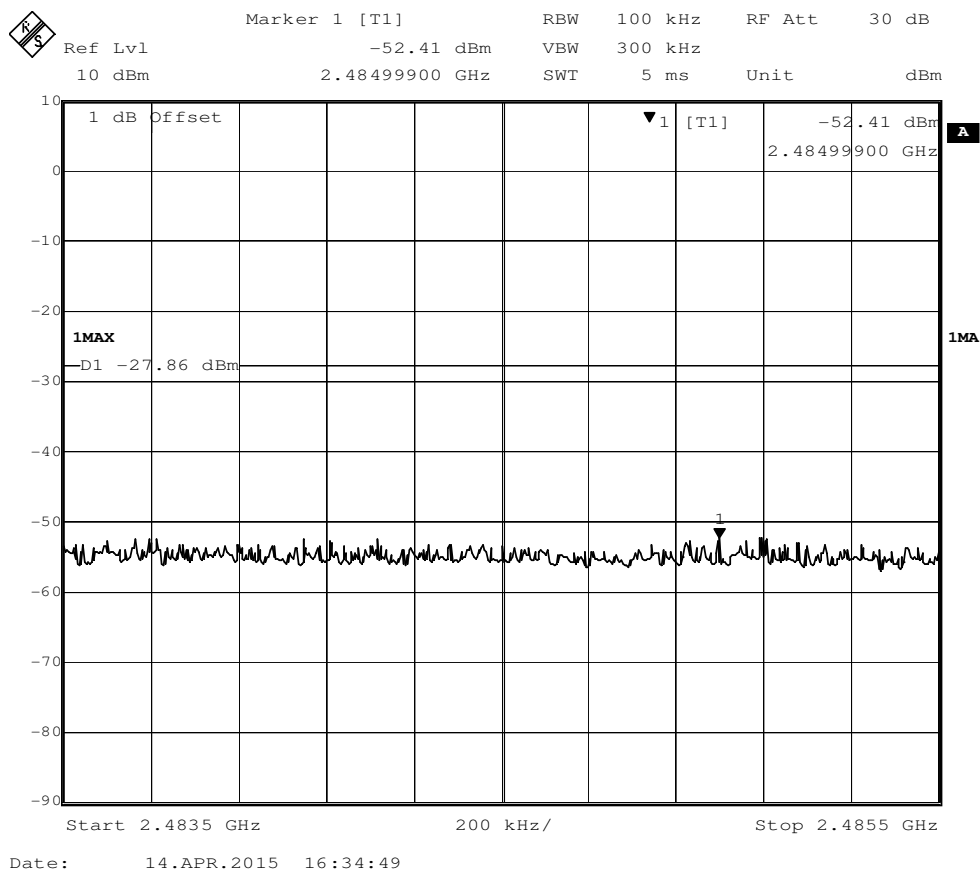






Channel 39: 2.480GHz





--End of Report--