CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

Hover Hawk Motion Controlled Helicopter

MODEL NUMBER: 2362383, ASC-6585

REPORT NUMBER: 4791308945-RF-2

ISSUE DATE: May 15, 2024

FCC ID: 2ASK3ASC-6585R

Prepared for

AMAX INDUSTRIAL GROUP CHINA CO.,LTD
OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	May 15, 2024	Initial Issue	

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Summary of Test Results			
Clause	Test Items	FCC Rules	Test Results
1	20dB Bandwidth and 99% Occupied Bandwidth	CFR 47 FCC §15.215 (c)	Pass
2	Radiated Emission	CFR 47 FCC §15.249 (a)(d)(e) CFR 47 FCC §15.205 and §15.209	Pass
3	Conducted Emission Test for AC Power Port	CFR 47 FCC §15.207	Not Applicable
4	Antenna Requirement	CFR 47 FCC §15.203	Pass
Note 1: This test report is only published to and used by the applicant, and it is not for evidence purpose in China. Note 2: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C > when <Accuracy Method> decision rule is applied. Note 3: The EUT was powered by battery and can't be charged during operating.			

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	AMAX INDUSTRIAL GROUP CHINA CO.,LTD
Address:	OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

Manufacturer Information

Company Name:	AMAX INDUSTRIAL GROUP CHINA CO.,LTD
Address:	OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

EUT Information

EUT Name:	Hover Hawk Motion Controlled Helicopter
Model:	2362383, ASC-6585
Model Difference	All the same except for the model name.
Sample Received Date:	April 29, 2024
Sample Status:	Normal
Sample ID:	7186360
Date of Tested:	May 7, 2024 to May 13, 2024

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 FCC PART 15 SUBPART C	**Pass**

Prepared By:

Denny Huang

Senior Project Engineer

Checked By:

Kebo Zhang

Senior Project Engineer

Approved By:

Stephen Guo

Operations Manager

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. **VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20192 and R-20202 Shielding Room B, the VCCI registration No. is C-20153 and T-20155

Note 1:
All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

Note 2:
The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:
For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 26 GHz)	5.78 dB (1 GHz ~ 18 GHz)
	5.23 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
20dB Emission Bandwidth and 99% Occupied Bandwidth	±0.0196%
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Hover Hawk Motion Controlled Helicopter
Model	2362383, ASC-6585
Model Difference	All the same except for the model name.

Product Description	Operation Frequency	2420 MHz ~ 2460 MHz
	Modulation Type	GFSK
Battery	DC 3.8 V	

5.2. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2420	2	2440	3	2460	/	/

5.3. MAXIMUM FIELD STRENGTH

Test Mode	Frequency (MHz)	Channel Number	Maximum Peak field strength (dBµV/m)
GFSK	2420 ~ 2460	1-3[3]	93.69

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
GFSK	CH 1(Low Channel), CH 2(MID Channel), CH 3(High Channel)	2420 MHz, 2440 MHz, 2460 MHz

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5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2420 MHz ~ 2460 MHz Band				
Test Software Version		/		
Modulation Type	Transmit Antenna Number	Test Channel		
		CH 1	CH 2	CH 3
GFSK	1	Default	Default	Default

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	Maximum Antenna Gain (dBi)
1	2420-2460	Wire Antenna	0.17

Test Mode	Transmit and Receive Mode	Description
GFSK	☒1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
Note: The value of the antenna gain was declared by customer		

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5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
/	/	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
/	/	/	/	/	/

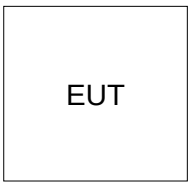
ACCESSORY

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.
/	/	/	/	/	/

TEST SETUP

The EUT have the engineer mode inside.

SETUP DIAGRAM FOR TEST



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6. MEASURING EQUIPMENT AND SOFTWARE USED

Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Oct.12, 2023	Oct.11, 2024
Software					
Description	Manufacturer	Name		Version	
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System		2.6.77.0518	

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.12, 2023	Oct.11, 2024
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
Preamplifier	HP	8447D	2944A09099	Oct.12, 2023	Oct.11, 2024
EMI Measurement Receiver	R&S	ESR26	101377	Oct.12, 2023	Oct.11, 2024
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.12, 2023	Oct.11, 2024
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.12, 2023	Oct.11, 2024
Preamplifier	TDK	PA-02-3	TRS-308-00002	Oct.12, 2023	Oct.11, 2024
Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001-3000	TRS-302-00050	Oct.12, 2023	Oct.11, 2024
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Oct.12, 2023	Oct.11, 2024
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Oct.12, 2023	Oct.11, 2024
Software					
Description		Manufacturer	Name	Version	
Test Software for Radiated Emissions		Farad	EZ-EMC	Ver. UL-3A1	

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7. ANTENNA PORT TEST RESULTS

7.1. 20DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.249) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.215 (c)	20dB Bandwidth	for reporting purposes only	2400-2483.5

TEST PROCEDURE

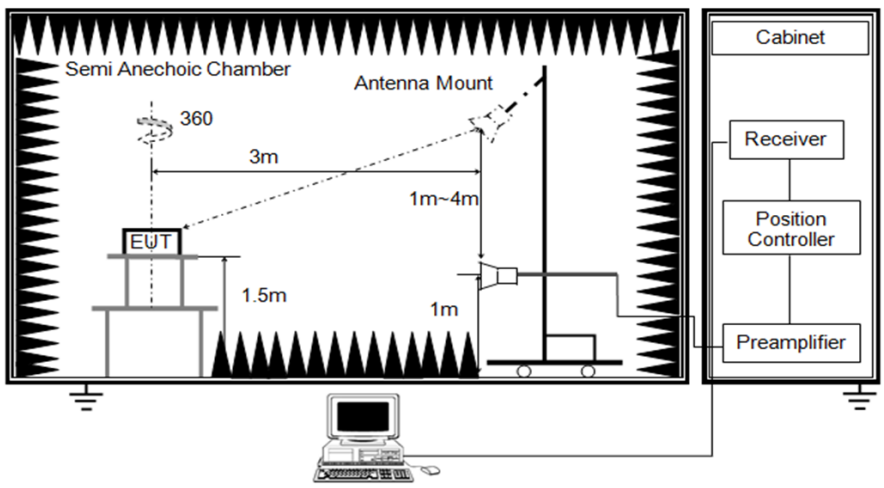
Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the occupied bandwidth
VBW	approximately 3×RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB/99% relative to the maximum level measured in the fundamental emission.

TEST SETUP

Above 1 GHz



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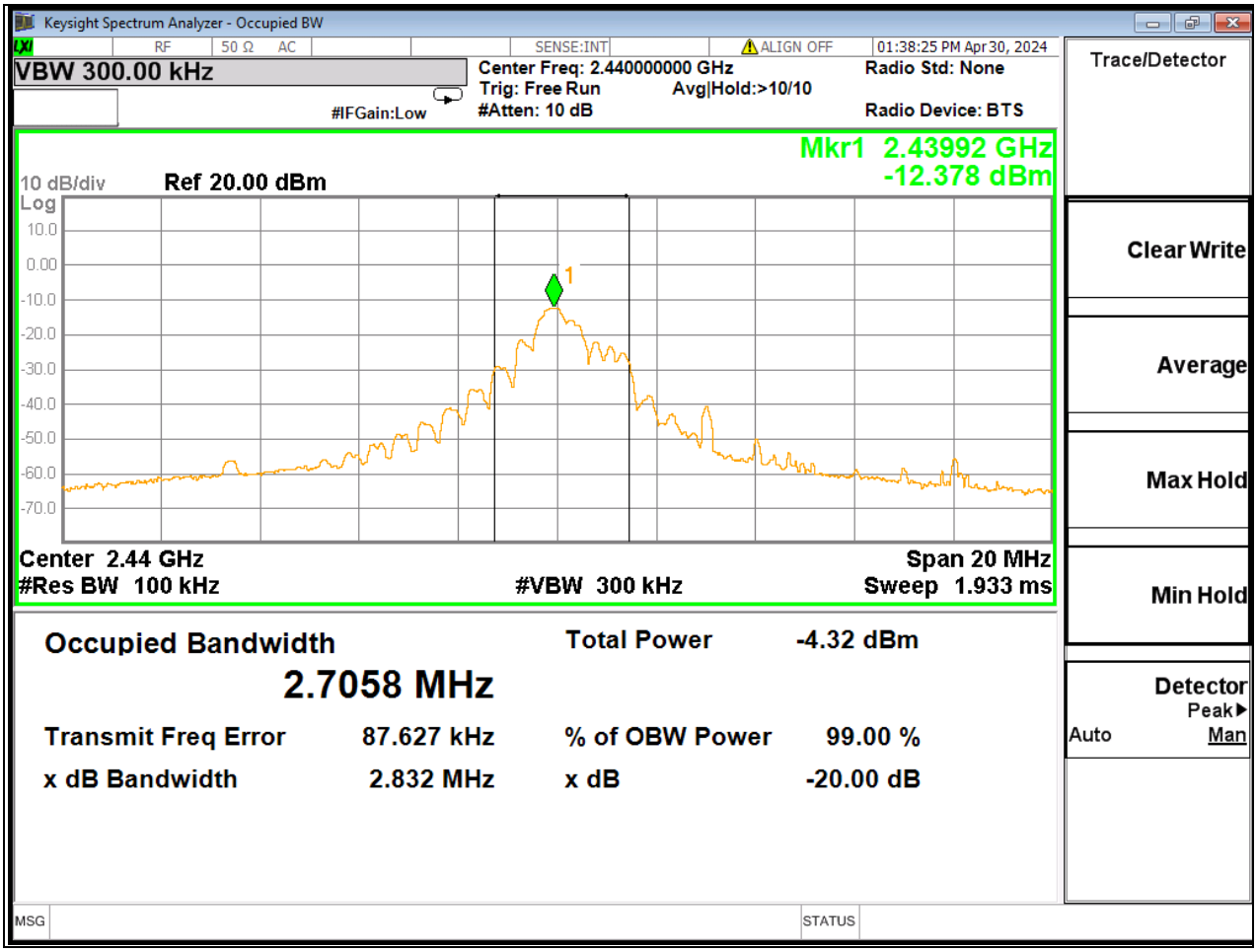
TEST ENVIRONMENT

Temperature	22.5 ℃	Relative Humidity	56%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.8 V

TEST RESULTS

Frequency (MHz)	99% Bandwidth (MHz)	20dB Bandwidth (MHz)	Result
2420	2.7058	2.832	PASS



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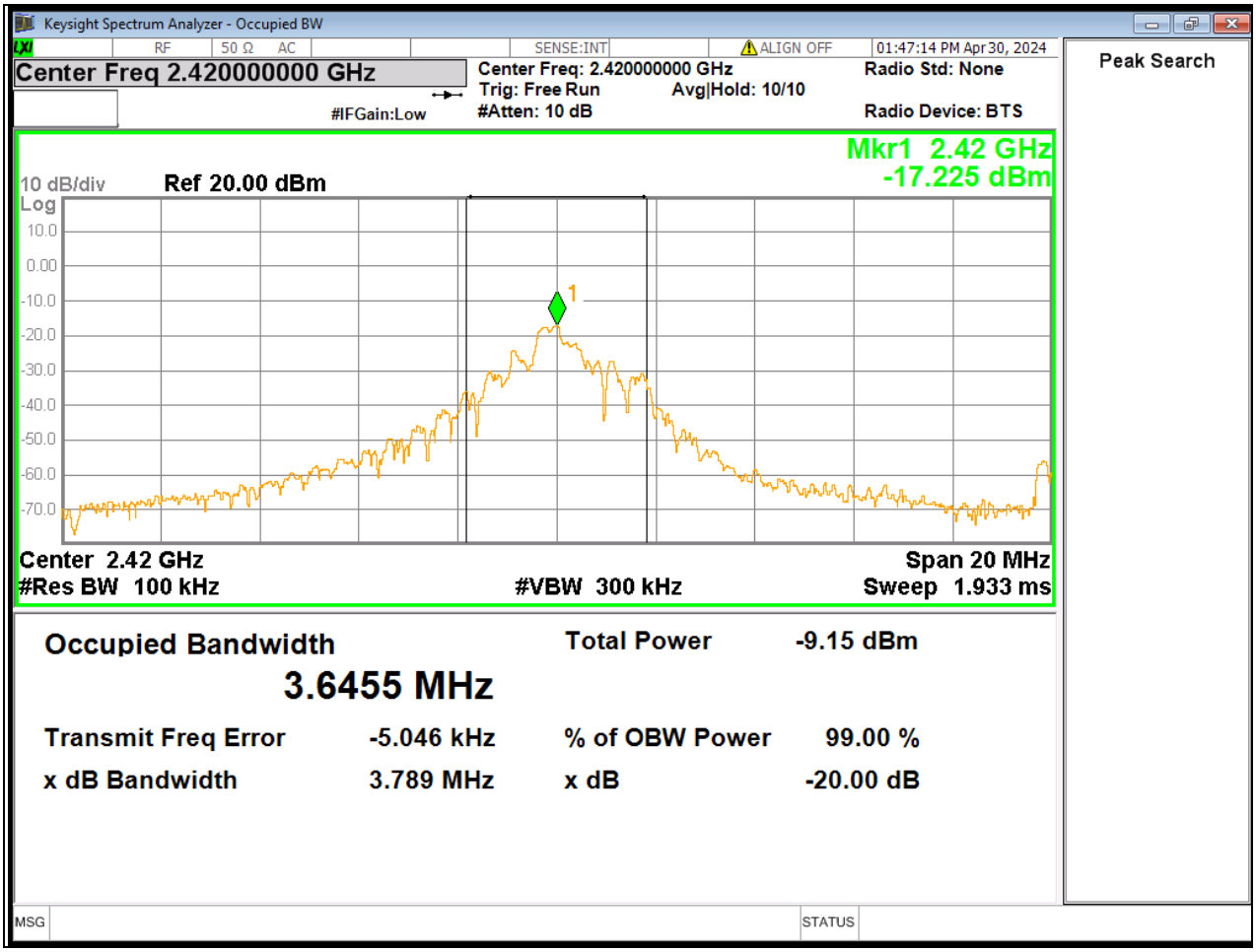
Frequency (MHz)	99% Bandwidth (MHz)	20dB Bandwidth (MHz)	Result
2440	3.6455	3.789	PASS



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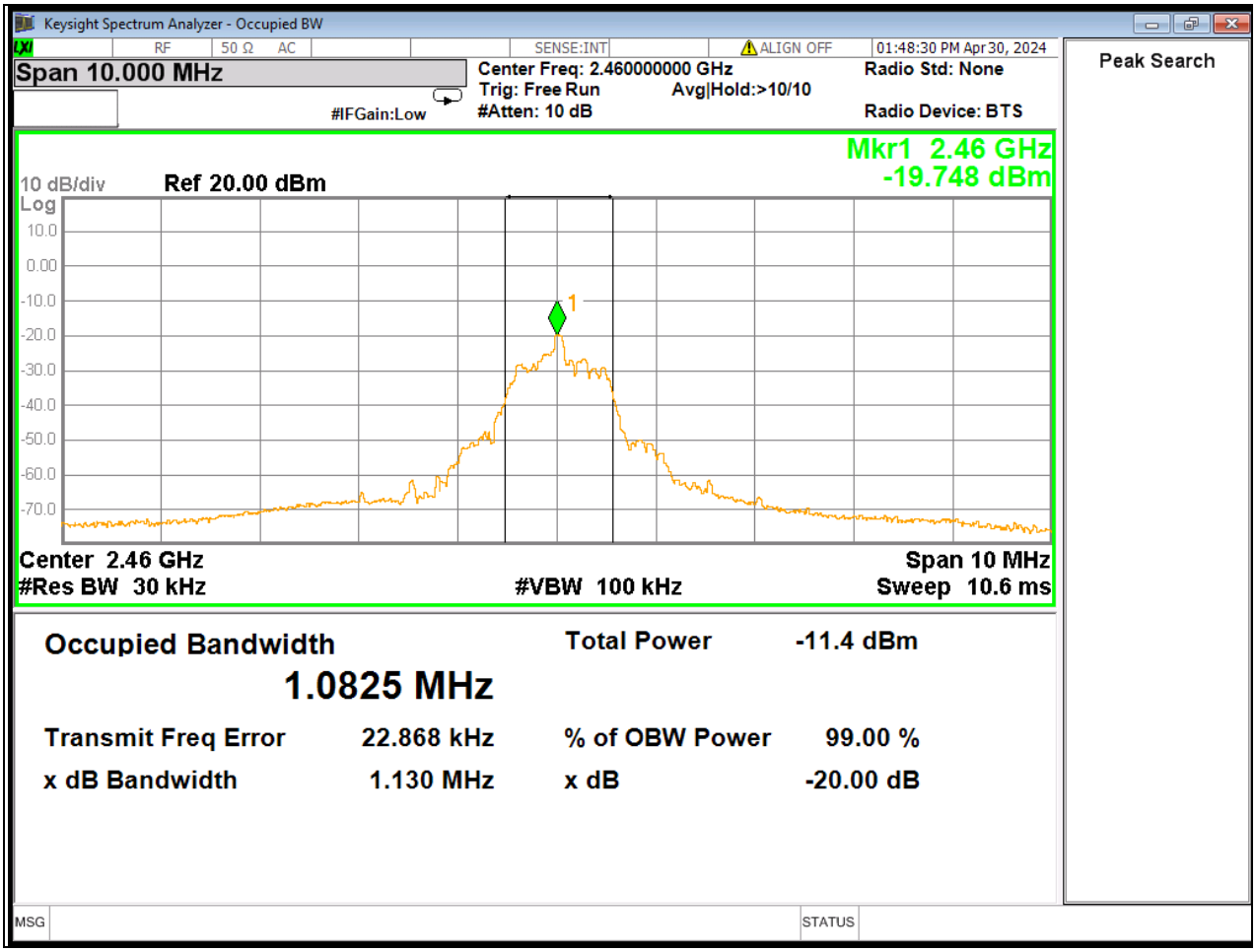
Frequency (MHz)	99% Bandwidth (MHz)	20dB Bandwidth (MHz)	Result
2460	1.0825	1.130	PASS



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7.2. DUTY CYCLE

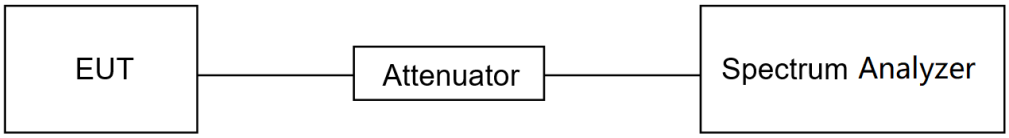
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.5 ℃	Relative Humidity	56%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.8 V

TEST RESULTS

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)
GFSK	13.26	100	0.1326	13.26	-17.55

Note: Duty Cycle Correction Factor=20log(x).
Where: x is Duty Cycle

Note: All the modes and buttons had been tested, but only the worst data was recorded in the report.

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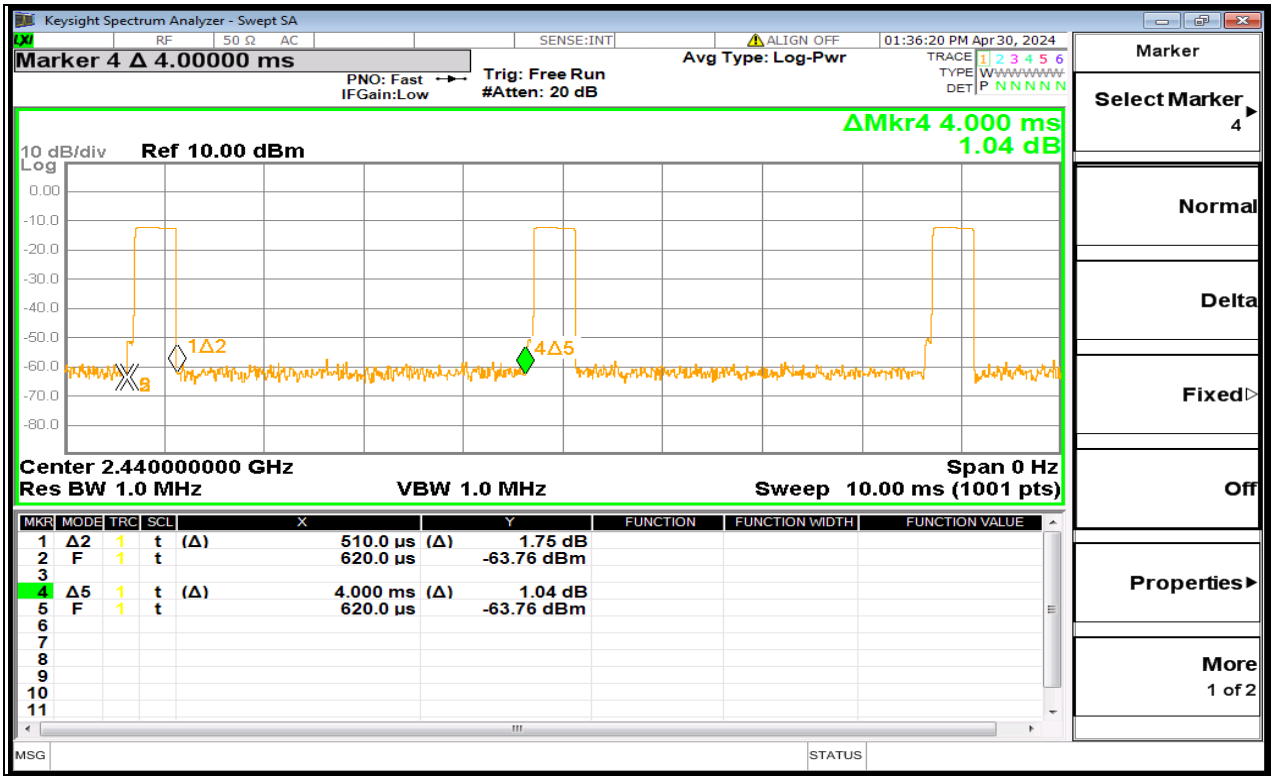

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8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

FCC field strength of emissions from intentional radiators operated within these frequency bands			
Frequency (MHz)	Field strength of Fundamental	Field strength of Harmonics	Distance (m)
902 - 928	50 mV/m (94 dBuV/m)	500 uV/m (54 dBuV/m)	3
2400 – 2483.5	50 mV/m (94 dBuV/m)	500 uV/m (54 dBuV/m)	3
5725 – 5875	50 mV/m (94 dBuV/m)	500 uV/m (54 dBuV/m)	3

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

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FCC Restricted bands of operation refer to FCC §15.205 (a):

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	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

Note: [1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2]Above 38.6c

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TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

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Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

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Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	3 MHz
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

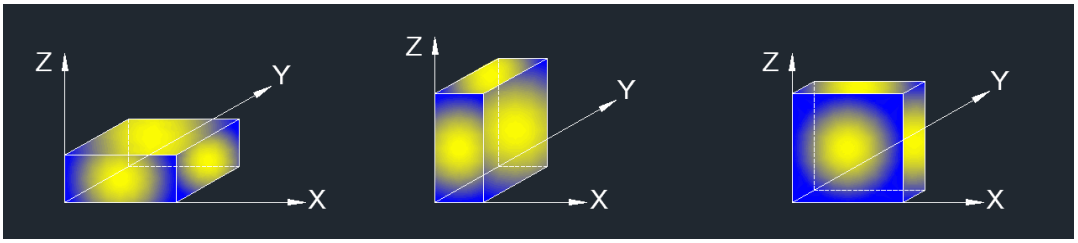
3. The EUT was placed on a turntable with 1.5 m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements. AVG Result=Peak Result + Duty Cycle Correction Factor. For the + Duty Cycle Correction Factor please refer to clause 7.2. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

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TEST PROCEDURE

For Restricted Bandedge and field strength of intentional emission:
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG Result=Peak Result + Duty Cycle Correction Factor.
5. For the transmitting duration, please refer to clause 7.2.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (30 MHz ~ 1 GHz):
Note:
1. Result Level = Read Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

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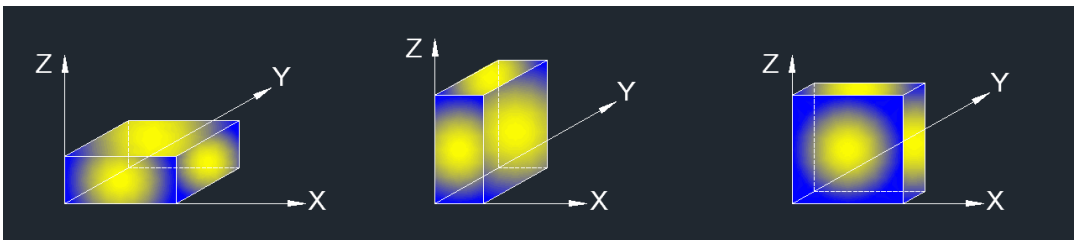
For Radiate Spurious Emission (1 GHz ~ 3 GHz):
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG Result=Peak Result + Duty Cycle Correction Factor.
5. For the transmitting duration, please refer to clause 7.2.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):
Note:
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG Result=Peak Result + Duty Cycle Correction Factor.
5. For the transmitting duration, please refer to clause 7.2.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

X axis, Y axis, Z axis positions:



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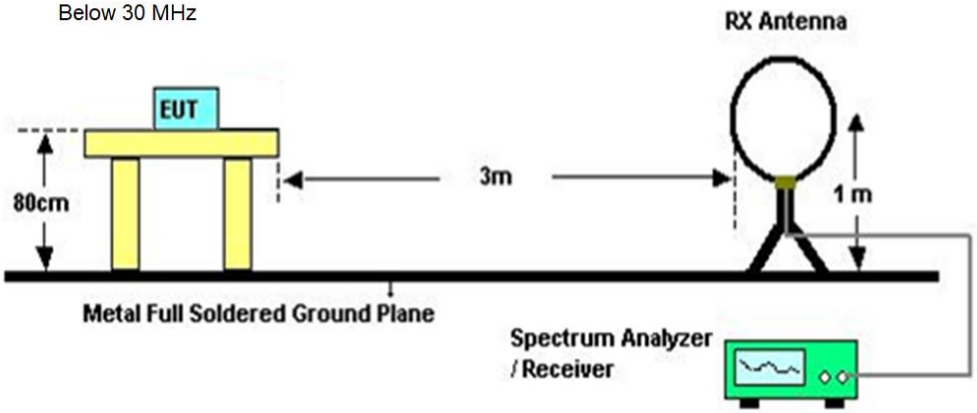
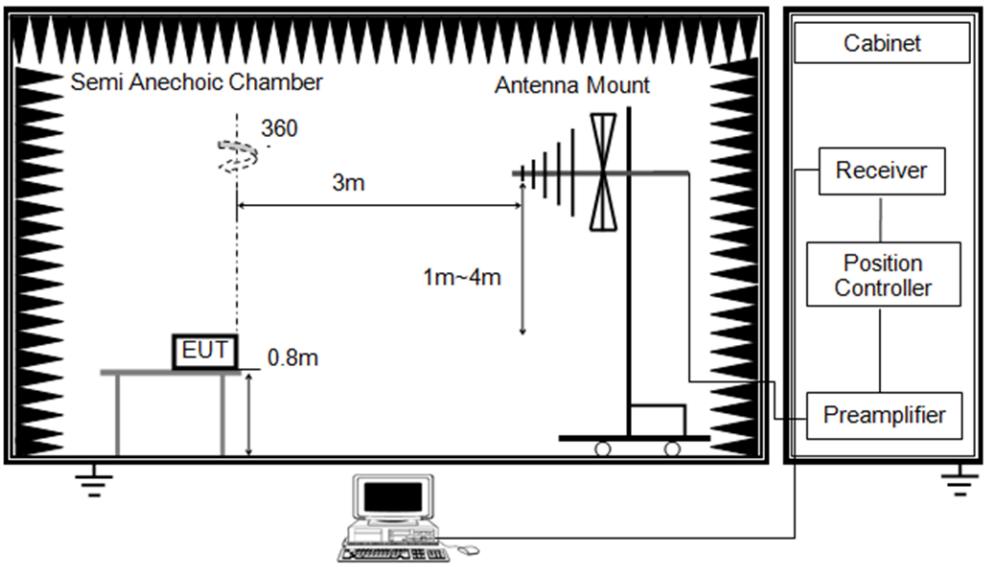
TEST SETUP

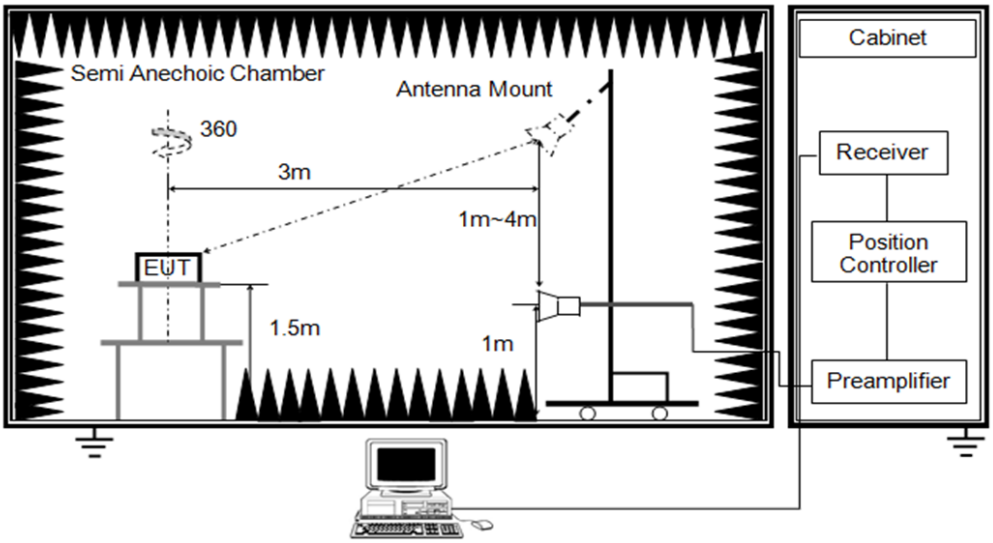
Below 30 MHz



Below 1 GHz and above 30 MHz



Above 1 GHz



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TEST ENVIRONMENT

Temperature	23.8 ℃	Relative Humidity	62.3%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.8 V

TEST RESULTS

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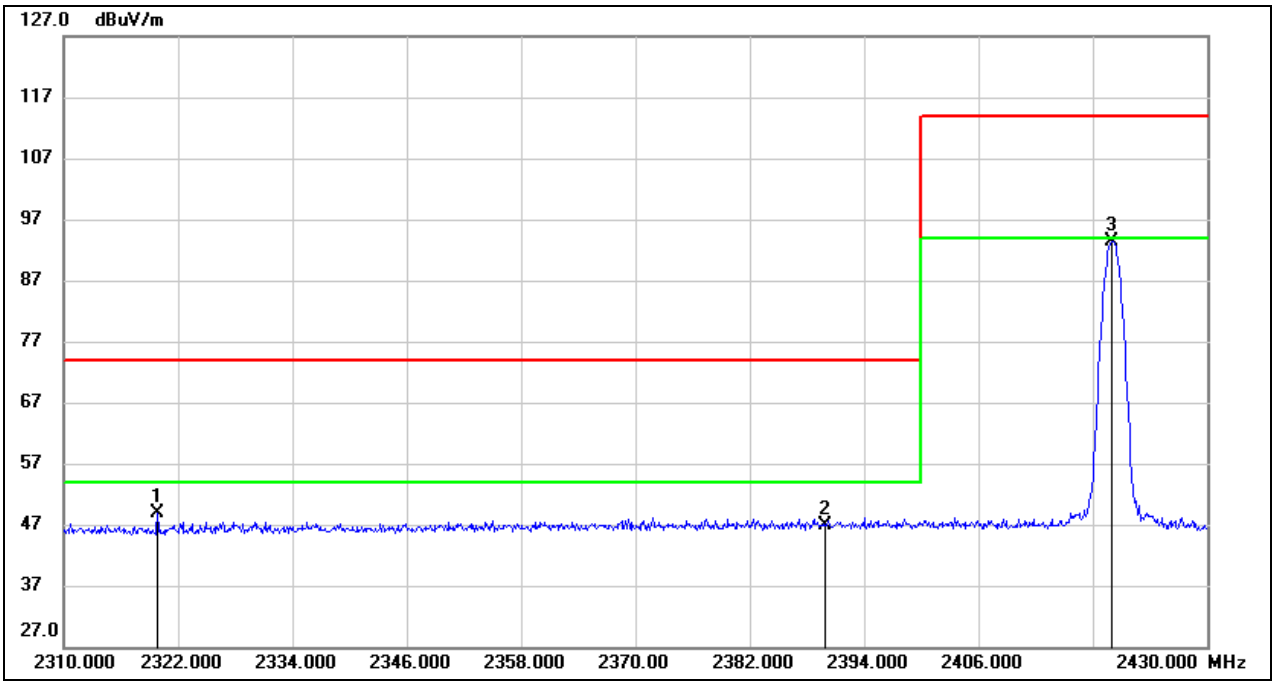
8.1. RESTRICTED BANDEDGE

Test Mode:	SRD 2.4GHz PK	Frequency(MHz):	2420
Polarity:	Vertical	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2319.840	16.30	32.54	48.84	74.00	-25.16	peak
2	2390.000	13.85	32.92	46.77	74.00	-27.23	peak
3	2420.000	60.48	32.97	93.45	114.00	-20.55	Fundamental

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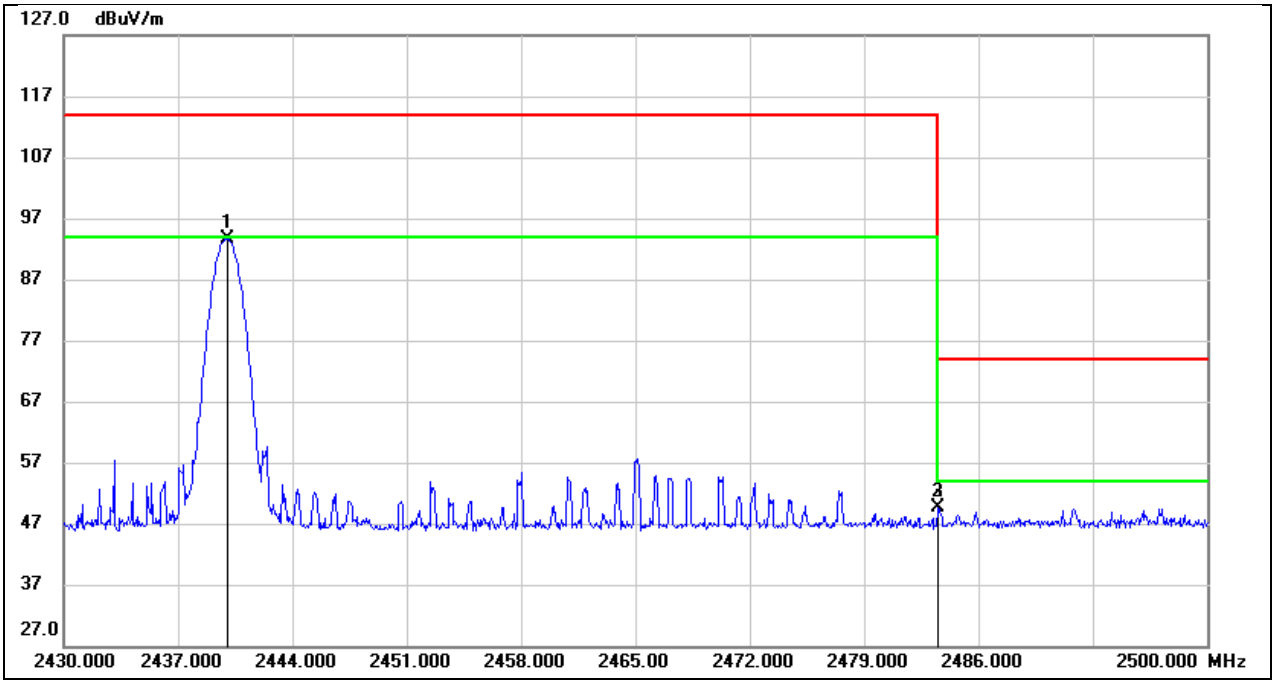
Test Mode:	SRD 2.4GHz PK	Frequency(MHz):	2440
Polarity:	Vertical	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2440.000	60.68	32.96	93.64	114.00	-20.36	Fundamental
2	2483.500	16.60	32.94	49.54	74.00	-24.46	peak
3	2483.550	16.60	32.94	49.54	74.00	-24.46	peak

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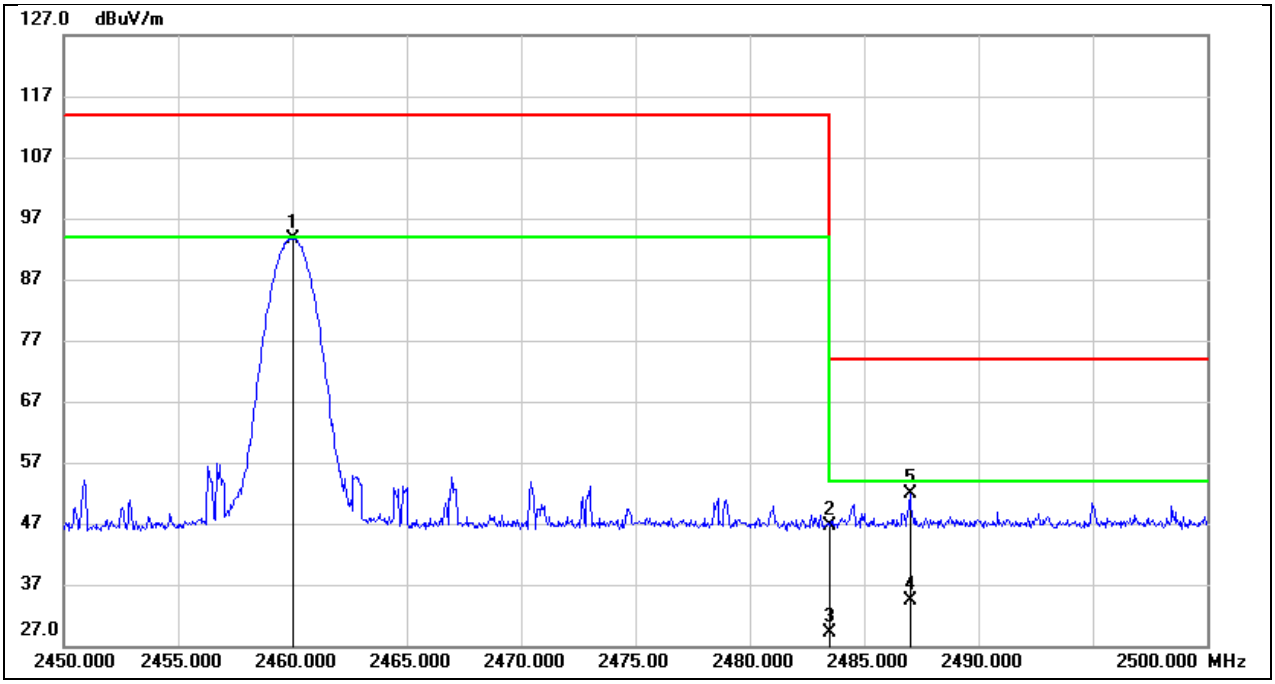
Test Mode:	SRD 2.4GHz PK	Frequency(MHz):	2460
Polarity:	Vertical	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.000	60.74	32.95	93.69	114.00	-20.31	Fundamental
2	2483.500	13.77	32.94	46.71	74.00	-27.29	peak
3	2483.500	/	/	29.16	54.00	-24.84	AVG
4	2487.000	/	/	34.37	74.00	-39.63	AVG
5	2487.000	18.98	32.94	51.92	74.00	-22.08	peak

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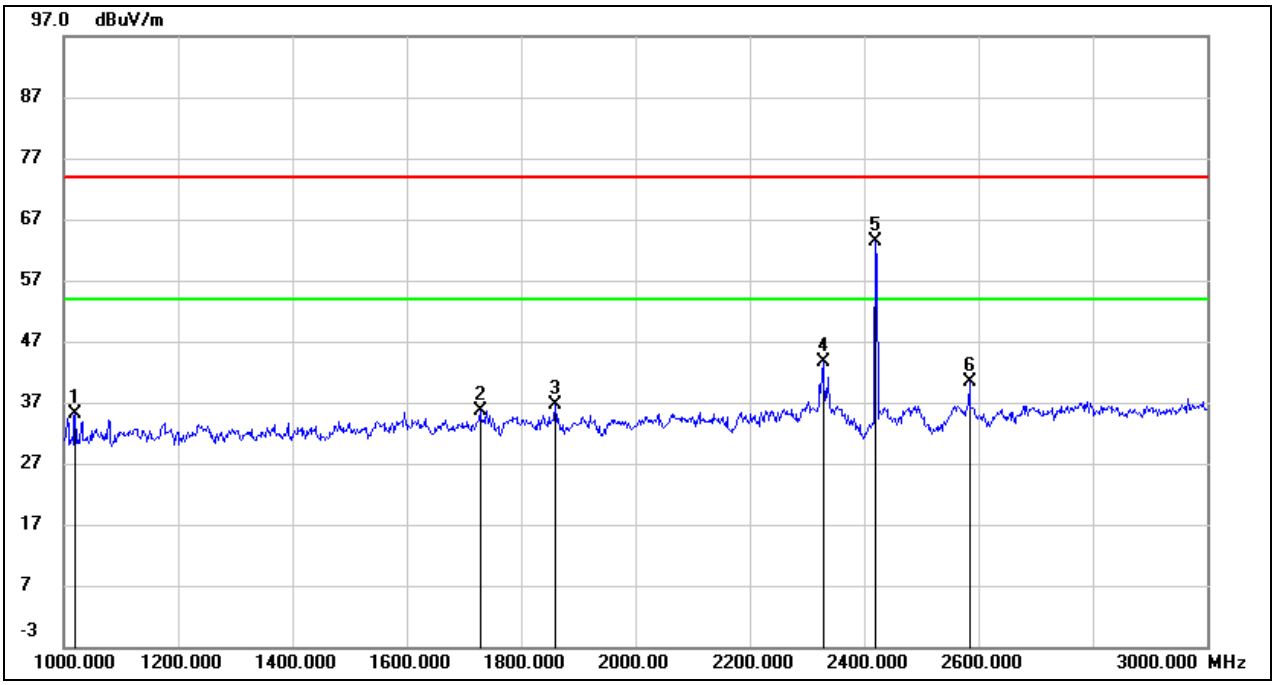
8.2. SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)

Test Mode:	SRD 2.4GHz	Frequency(MHz):	2420
Polarity:	Horizontal	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1020.000	49.32	-14.23	35.09	74.00	-38.91	peak
2	1728.000	46.15	-10.57	35.58	74.00	-38.42	peak
3	1860.000	46.73	-10.21	36.52	74.00	-37.48	peak
4	2328.000	51.56	-7.94	43.62	74.00	-30.38	peak
5	2420.000	70.86	-7.43	63.43	/	/	Fundamental
6	2584.000	48.10	-7.65	40.45	74.00	-33.55	peak

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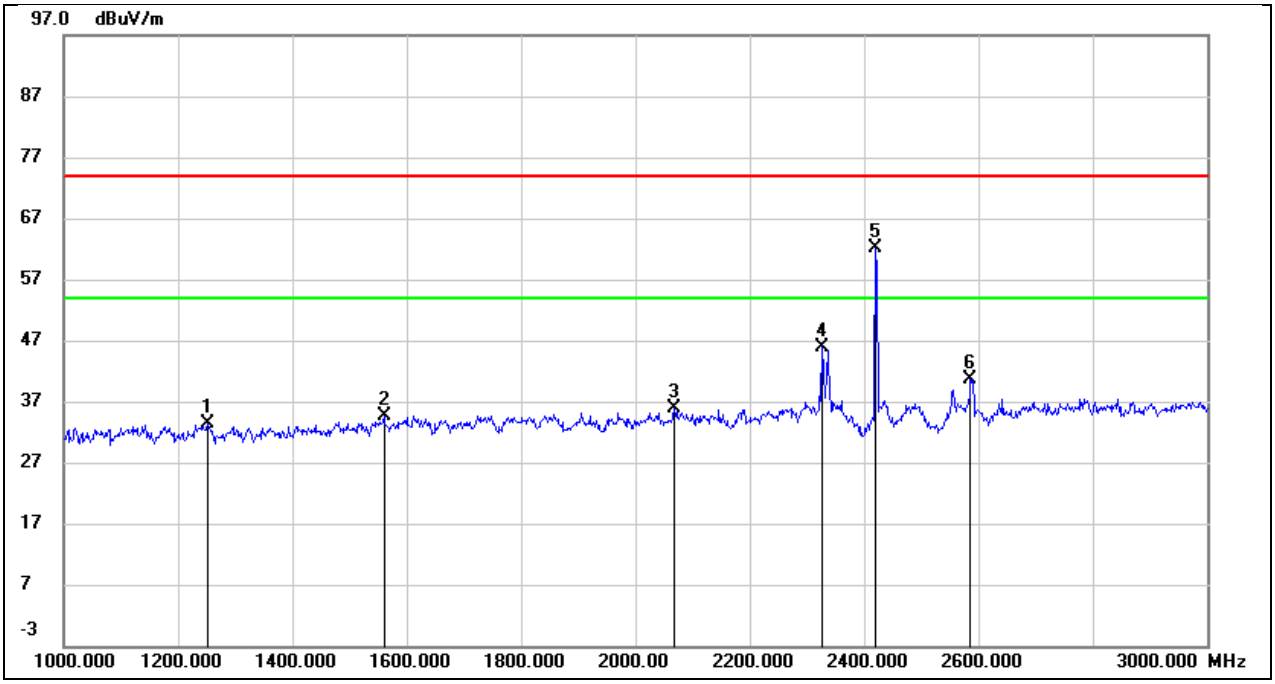
Test Mode:	SRD 2.4GHz	Frequency(MHz):	2420
Polarity:	Vertical	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1252.000	45.84	-12.58	33.26	74.00	-40.74	peak
2	1560.000	45.93	-11.40	34.53	74.00	-39.47	peak
3	2068.000	45.58	-9.69	35.89	74.00	-38.11	peak
4	2326.000	53.94	-7.94	46.00	74.00	-28.00	peak
5	2420.000	69.63	-7.43	62.20	/	/	Fundamental
6	2586.000	48.34	-7.66	40.68	74.00	-33.32	peak

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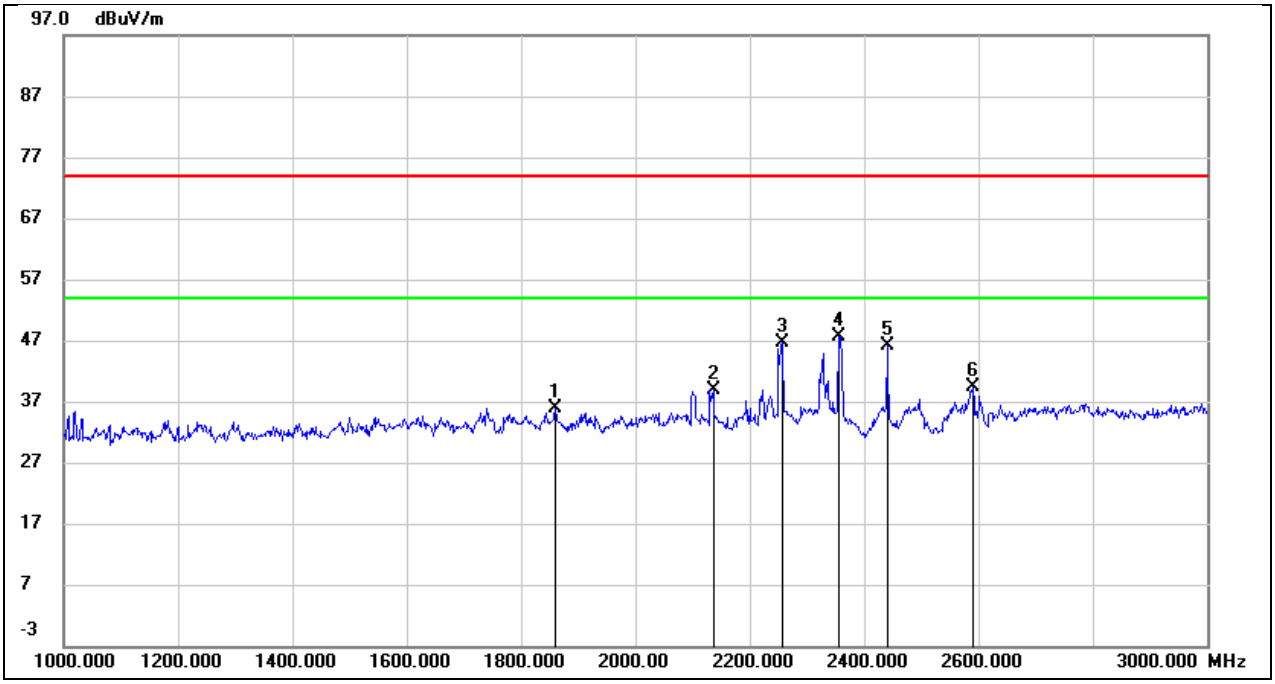
Test Mode:	SRD 2.4GHz	Frequency(MHz):	2440
Polarity:	Horizontal	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1860.000	46.13	-10.21	35.92	74.00	-38.08	peak
2	2136.000	48.23	-9.27	38.96	74.00	-35.04	peak
3	2256.000	55.17	-8.46	46.71	74.00	-27.29	peak
4	2356.000	55.37	-7.72	47.65	74.00	-26.35	peak
5	2440.000	53.60	-7.44	46.16	/	/	Fundamental
6	2590.000	47.01	-7.67	39.34	74.00	-34.66	peak

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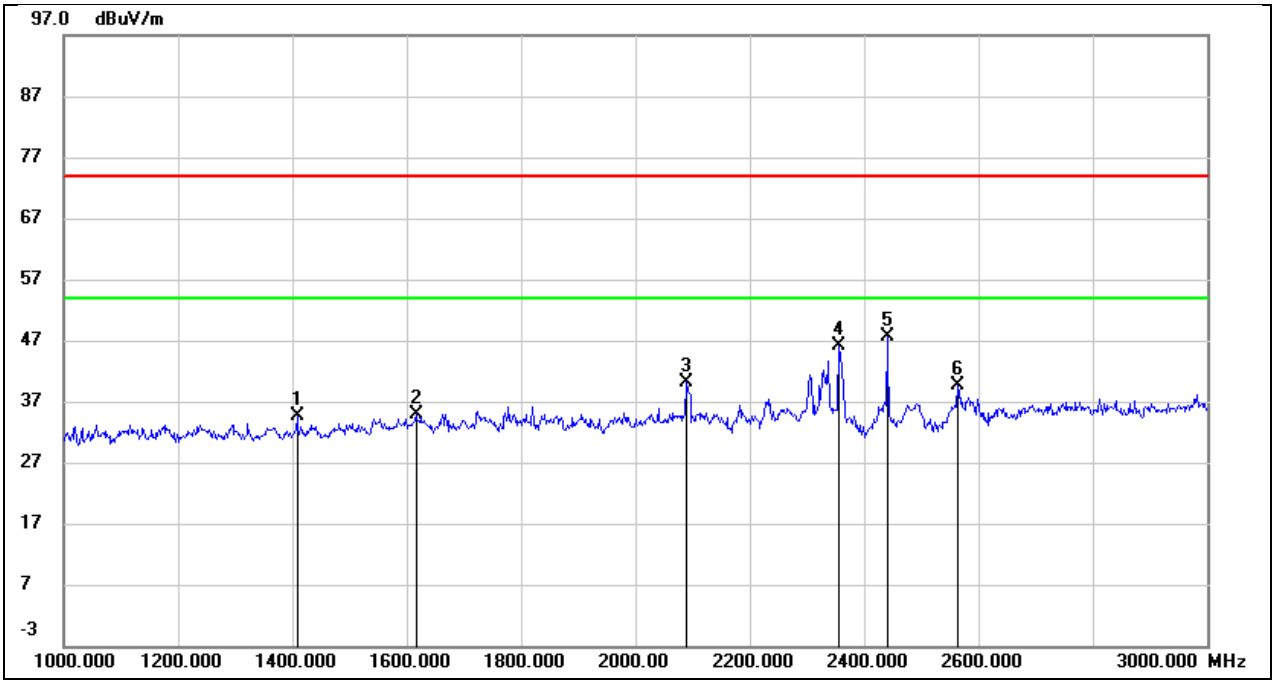
Test Mode:	SRD 2.4GHz	Frequency(MHz):	2440
Polarity:	Vertical	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1408.000	46.87	-12.35	34.52	74.00	-39.48	peak
2	1616.000	45.97	-11.09	34.88	74.00	-39.12	peak
3	2090.000	49.80	-9.56	40.24	74.00	-33.76	peak
4	2356.000	53.77	-7.72	46.05	74.00	-27.95	peak
5	2440.000	55.15	-7.44	47.71	/	/	Fundamental
6	2564.000	47.20	-7.62	39.58	74.00	-34.42	peak

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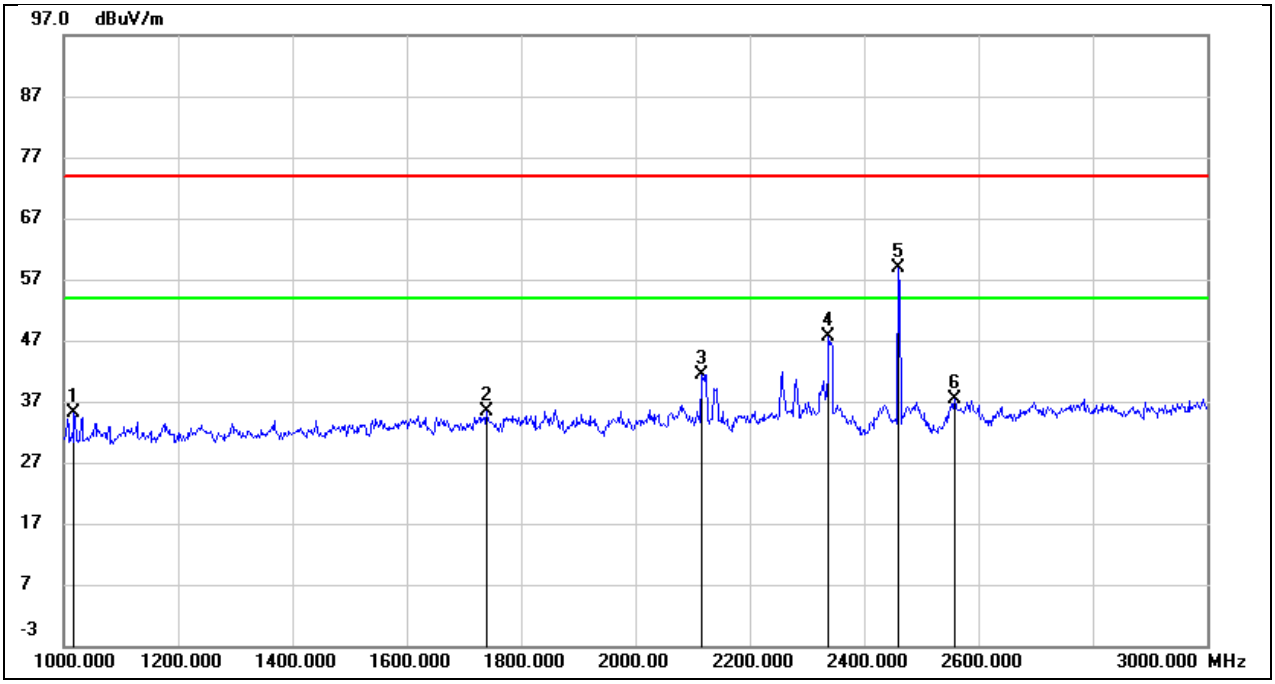
Test Mode:	SRD 2.4GHz	Frequency(MHz):	2460
Polarity:	Horizontal	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1018.000	49.26	-14.25	35.01	74.00	-38.99	peak
2	1740.000	45.94	-10.51	35.43	74.00	-38.57	peak
3	2116.000	50.82	-9.40	41.42	74.00	-32.58	peak
4	2338.000	55.50	-7.85	47.65	74.00	-26.35	peak
5	2460.000	66.28	-7.46	58.82	/	/	Fundamental
6	2558.000	44.97	-7.61	37.36	74.00	-36.64	peak

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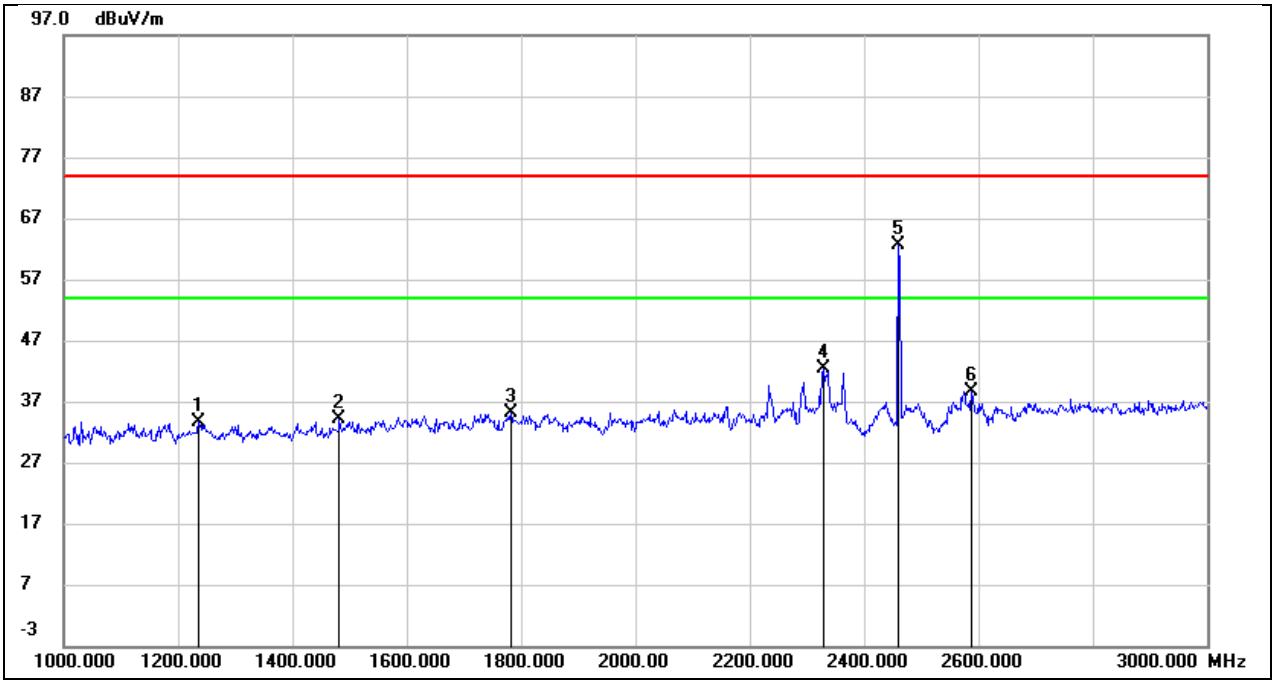
Test Mode:	SRD 2.4GHz	Frequency(MHz):	2460
Polarity:	Vertical	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1236.000	46.19	-12.60	33.59	74.00	-40.41	peak
2	1482.000	46.07	-11.86	34.21	74.00	-39.79	peak
3	1782.000	45.45	-10.32	35.13	74.00	-38.87	peak
4	2328.000	50.26	-7.94	42.32	74.00	-31.68	peak
5	2460.000	70.04	-7.46	62.58	/	/	Fundamental
6	2588.000	46.30	-7.66	38.64	74.00	-35.36	peak

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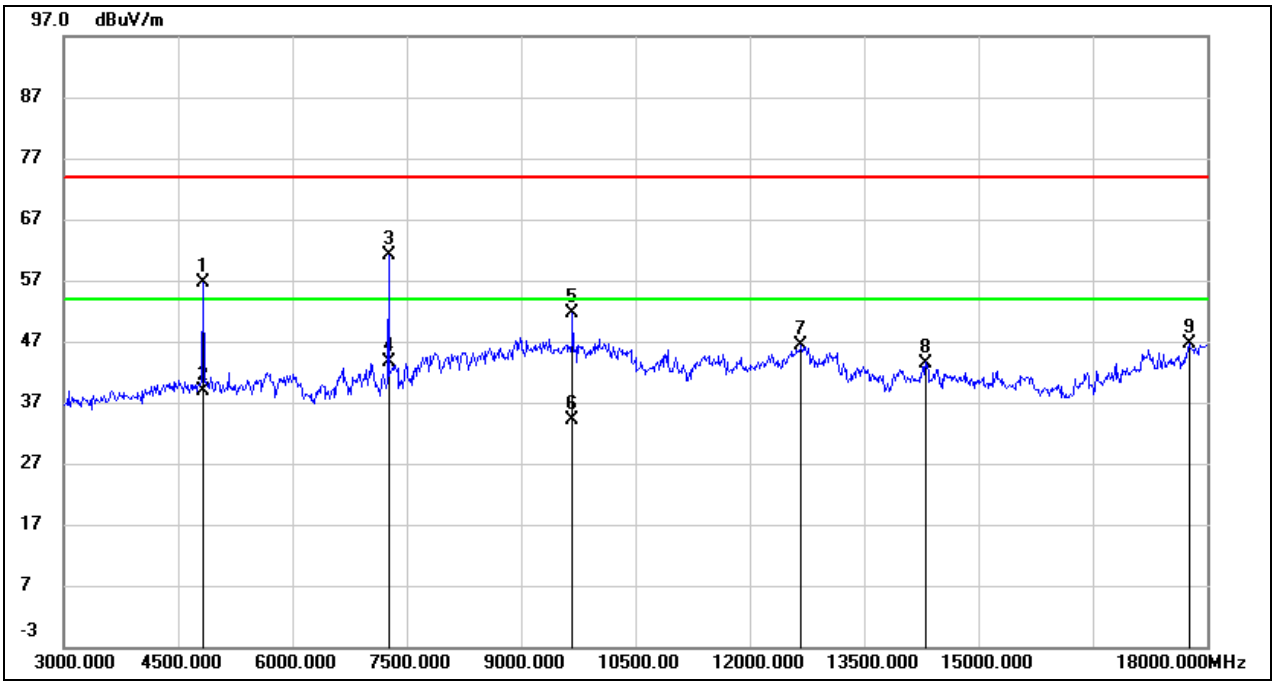
8.3. SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)

Test Mode:	SRD 2.4GHz	Frequency(MHz):	2420
Polarity:	Horizontal	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.000	56.03	0.51	56.54	74.00	-17.46	peak
2	4830.000	/	/	38.99	54.00	-15.01	AVG
3	7260.000	54.53	6.61	61.14	74.00	-12.86	peak
4	7260.000	/	/	43.59	54.00	-10.41	AVG
5	9675.000	40.49	11.23	51.72	74.00	-22.28	peak
6	9675.000	/	/	34.17	54.00	-19.83	AVG
7	12675.000	27.76	18.54	46.30	74.00	-27.70	peak
8	14310.000	21.99	21.51	43.50	74.00	-30.50	peak
9	17760.000	20.91	25.72	46.63	74.00	-27.37	peak

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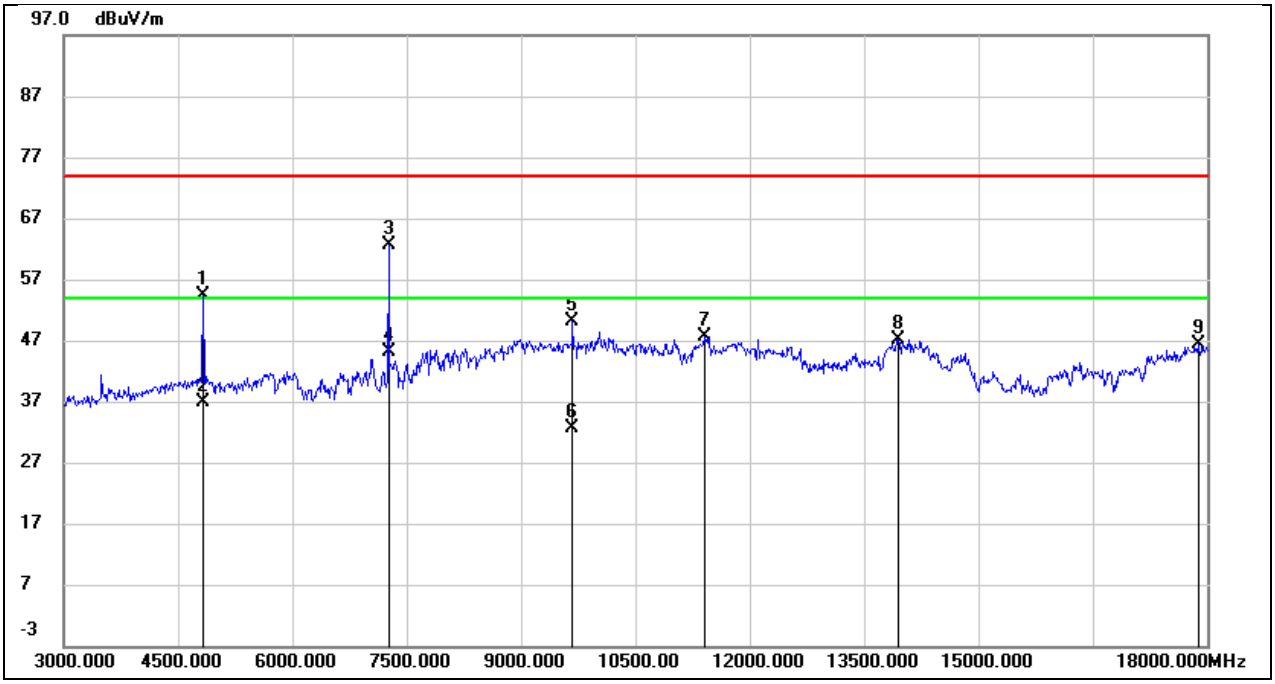
Test Mode:	SRD 2.4GHz	Frequency(MHz):	2420
Polarity:	Vertical	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.000	53.90	0.51	54.41	74.00	-19.59	peak
2	4830.000	/	/	36.86	54.00	-17.14	AVG
3	7260.000	56.12	6.61	62.73	74.00	-11.27	peak
4	7260.000	/	/	45.18	54.00	-8.82	AVG
5	9675.000	38.87	11.23	50.10	74.00	-23.90	peak
6	9675.000	/	/	32.55	54.00	-21.45	AVG
7	11400.000	31.18	16.54	47.72	74.00	-26.28	peak
8	13950.000	24.44	22.73	47.17	74.00	-26.83	peak
9	17880.000	19.92	26.39	46.31	74.00	-27.69	peak

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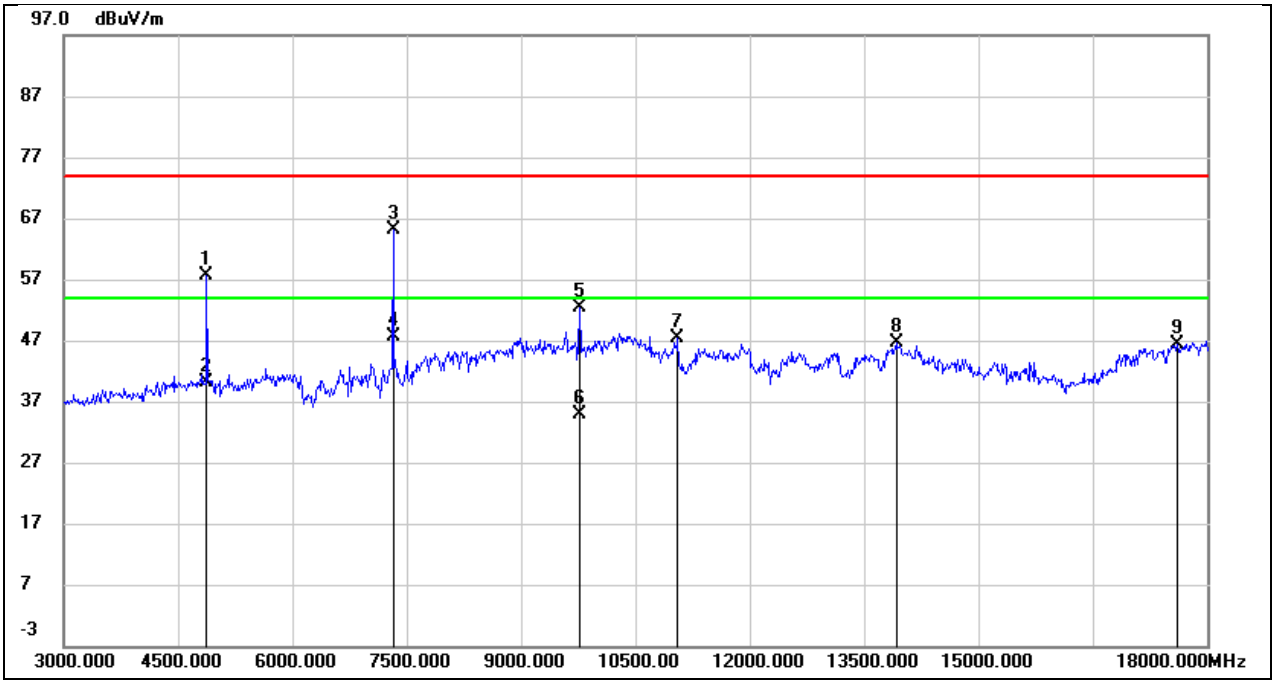
Test Mode:	SRD 2.4GHz	Frequency(MHz):	2440
Polarity:	Horizontal	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	56.95	0.61	57.56	74.00	-16.44	peak
2	4875.000	/	/	40.01	54.00	-13.99	AVG
3	7320.000	58.08	6.98	65.06	74.00	-8.94	peak
4	7320.000	/	/	47.51	54.00	-6.49	AVG
5	9765.000	40.97	11.44	52.41	74.00	-21.59	peak
6	9765.000	/	/	34.86	54.00	-19.14	AVG
7	11055.000	32.33	15.04	47.37	74.00	-26.63	peak
8	13920.000	24.01	22.71	46.72	74.00	-27.28	peak
9	17610.000	22.15	24.34	46.49	74.00	-27.51	peak

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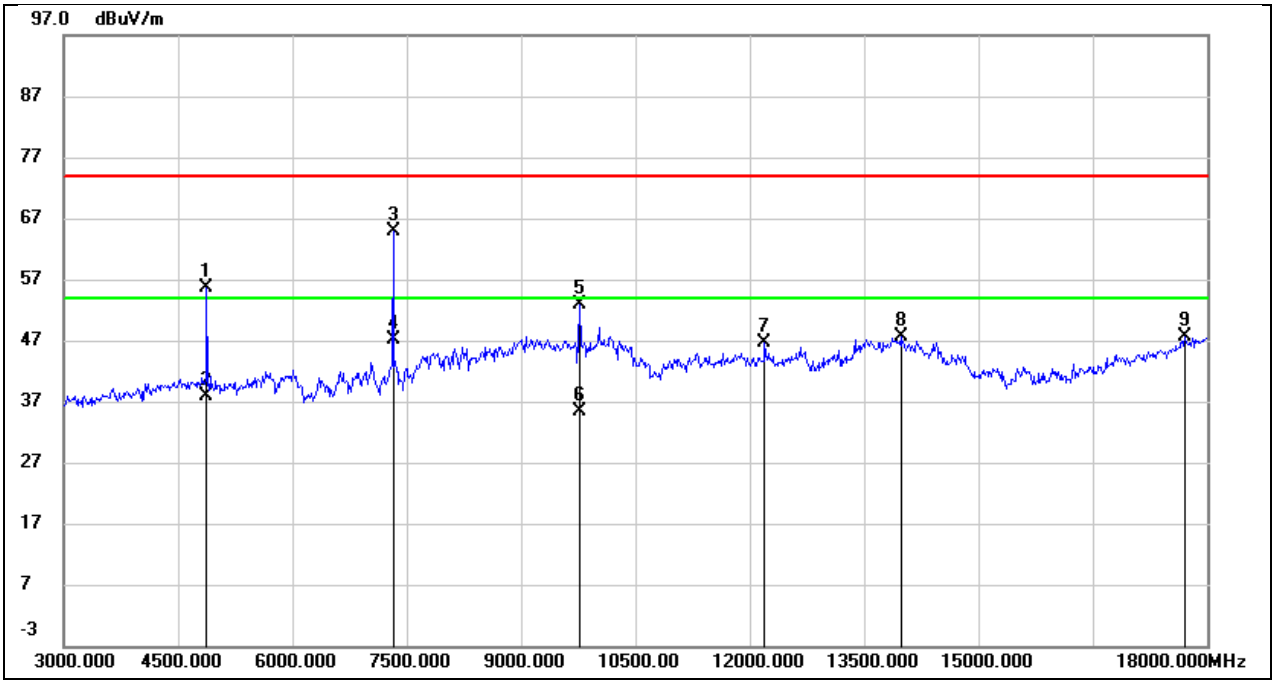
Test Mode:	SRD 2.4GHz	Frequency(MHz):	2440
Polarity:	Vertical	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	54.90	0.61	55.51	74.00	-18.49	peak
2	4875.000	/	/	37.96	54.00	-16.04	AVG
3	7320.000	57.78	6.98	64.76	74.00	-9.24	peak
4	7320.000	/	/	47.21	54.00	-6.79	AVG
5	9765.000	41.37	11.44	52.81	74.00	-21.19	peak
6	9765.000	/	/	35.26	54.00	-18.74	AVG
7	12195.000	28.39	18.32	46.71	74.00	-27.29	peak
8	13980.000	24.83	22.75	47.58	74.00	-26.42	peak
9	17700.000	22.36	25.17	47.53	74.00	-26.47	peak

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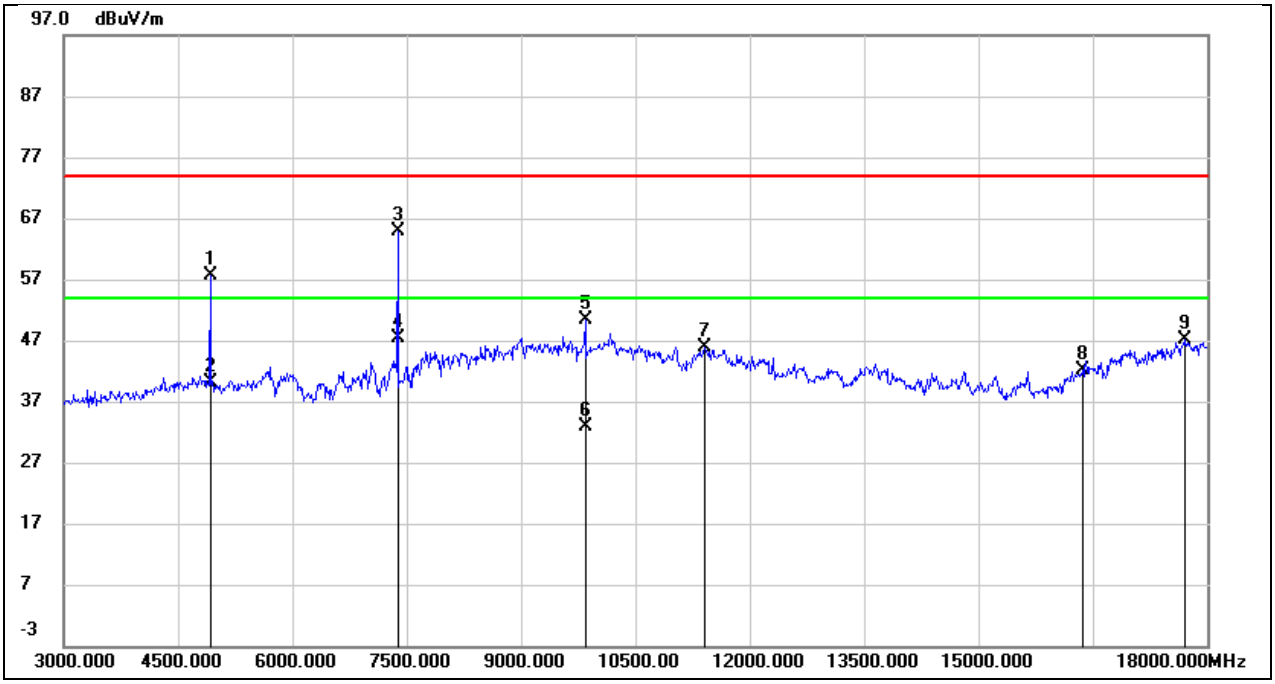
Test Mode:	SRD 2.4GHz	Frequency(MHz):	2460
Polarity:	Horizontal	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	56.99	0.69	57.68	74.00	-16.32	peak
2	4920.000	/	/	40.13	54.00	-13.87	AVG
3	7380.000	57.55	7.34	64.89	74.00	-9.11	peak
4	7380.000	/	/	47.34	54.00	-6.66	AVG
5	9840.000	38.63	11.72	50.35	74.00	-23.65	peak
6	9840.000	/	/	32.80	54.00	-21.20	AVG
7	11400.000	29.40	16.54	45.94	74.00	-28.06	peak
8	16365.000	22.97	19.19	42.16	74.00	-31.84	peak
9	17700.000	21.92	25.17	47.09	74.00	-26.91	peak

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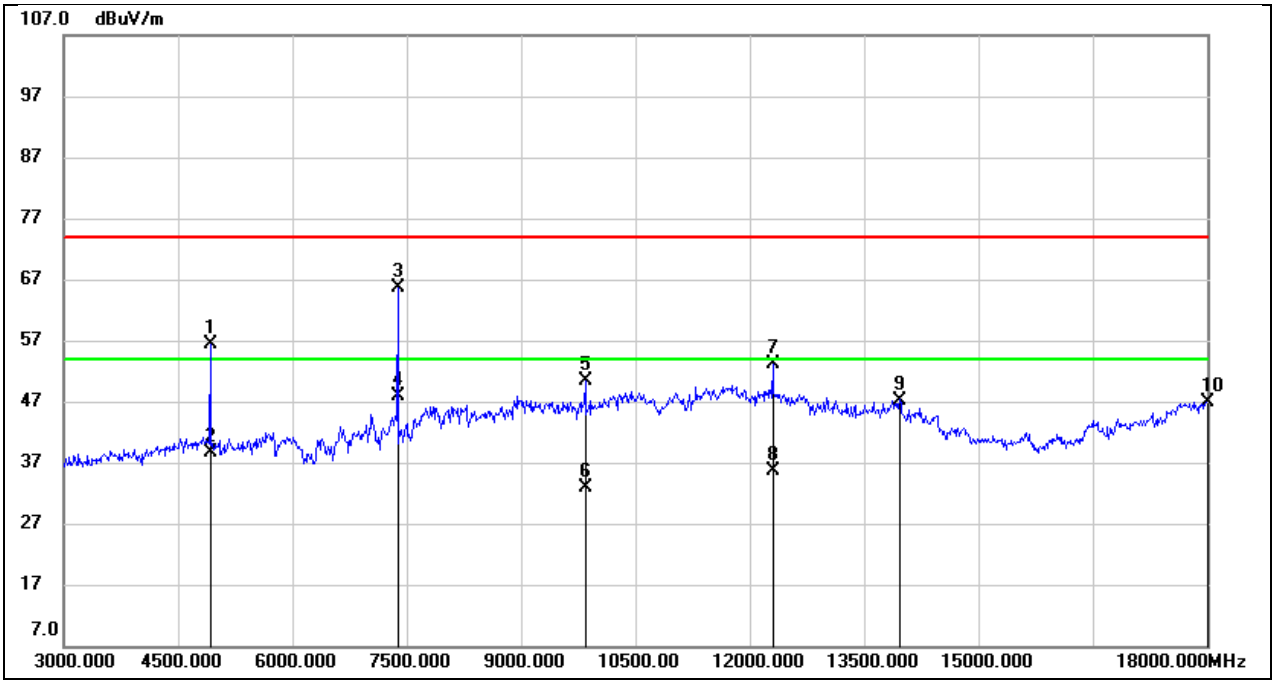
Test Mode:	SRD 2.4GHz	Frequency(MHz):	2460
Polarity:	Vertical	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	55.61	0.69	56.30	74.00	-17.70	peak
2	4920.000	/	/	38.75	54.00	-15.25	AVG
3	7380.000	58.19	7.34	65.53	74.00	-8.47	peak
4	7380.000	/	/	47.98	54.00	-6.02	AVG
5	9840.000	38.76	11.72	50.48	74.00	-23.52	peak
6	9840.000	/	/	32.93	54.00	-21.07	AVG
7	12300.000	34.58	18.65	53.23	74.00	-20.77	peak
8	12300.000	/	/	35.68	54.00	-18.32	AVG
9	13965.000	24.51	22.74	47.25	74.00	-26.75	peak
10	18000.000	20.11	26.83	46.94	74.00	-27.06	peak

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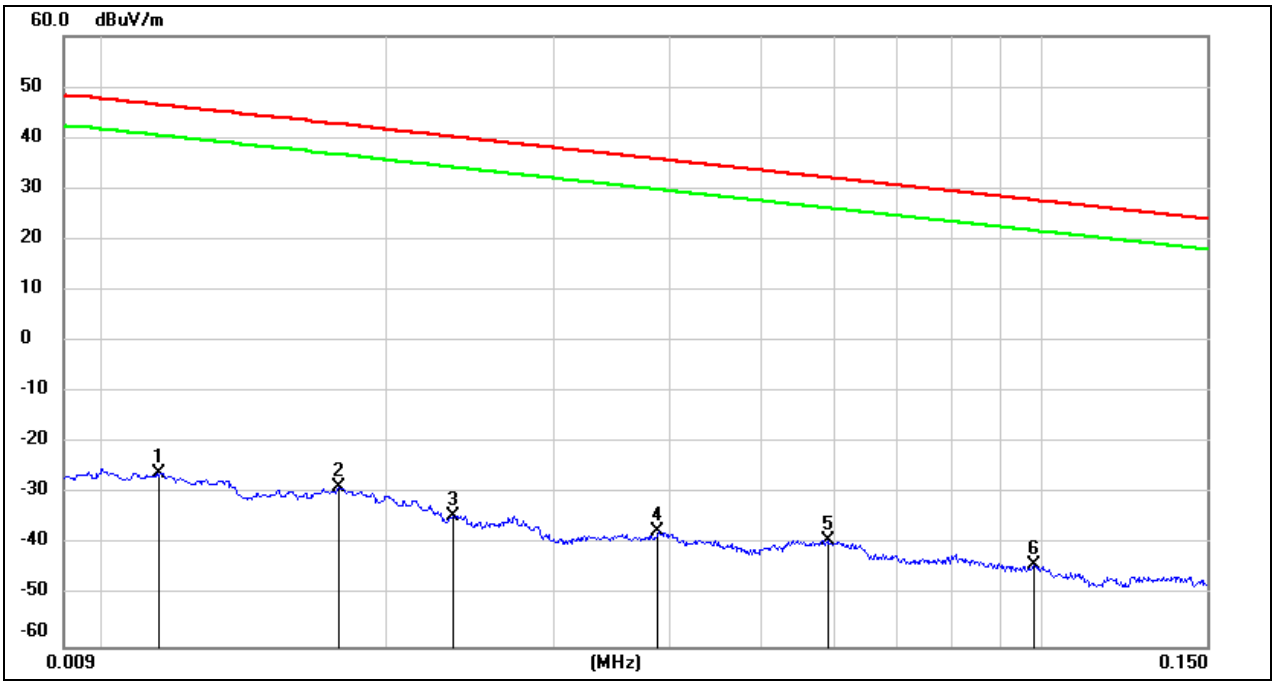
8.4. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

Test Mode:	SRD 2.4GHZ	Frequency(MHz):	2460
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 3.8 V



No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.0114	75.5	-101.4	-25.9	-77.40	46.46	-5.04	-72.36	peak
2	0.0177	72.57	-101.35	-28.78	-80.28	42.64	-8.86	-71.42	peak
3	0.0235	67.11	-101.36	-34.25	-85.75	40.18	-11.32	-74.43	peak
4	0.0388	64.07	-101.43	-37.36	-88.86	35.82	-15.68	-73.18	peak
5	0.0589	62.31	-101.52	-39.21	-90.71	32.2	-19.3	-71.41	peak
6	0.0981	57.77	-101.78	-44.01	-95.51	27.77	-23.73	-71.78	peak

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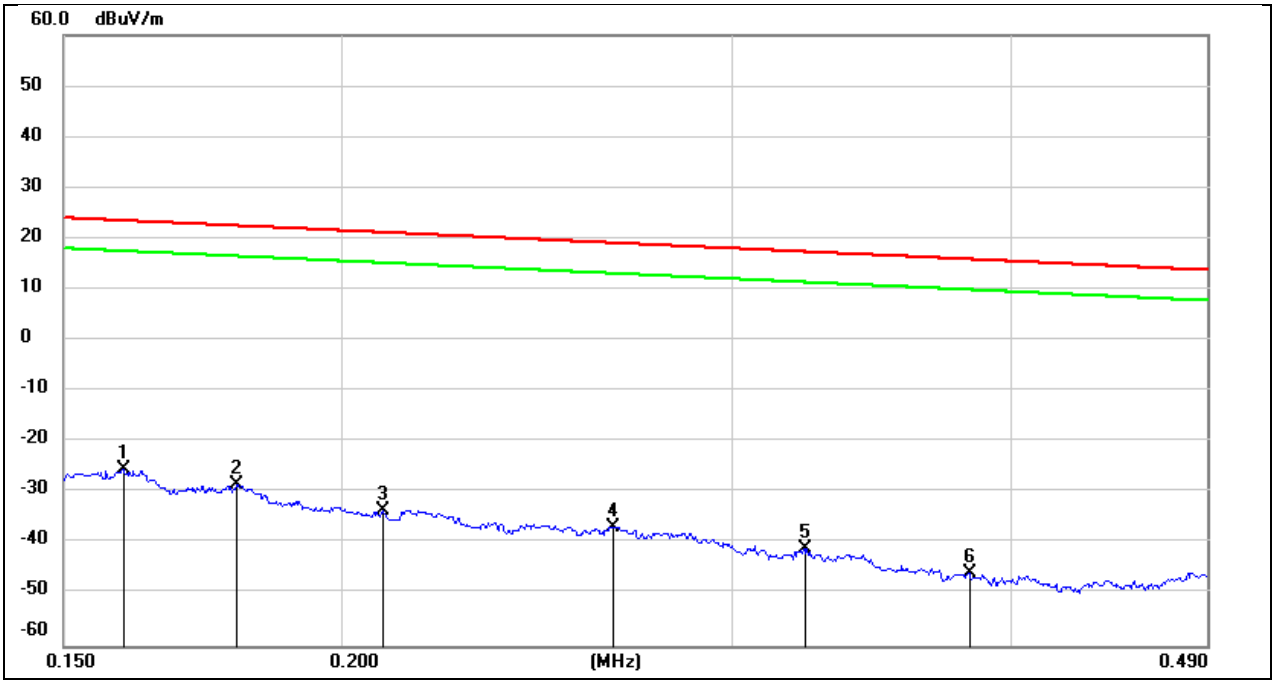
Test Mode:	SRD 2.4GHZ	Frequency(MHz):	2460
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 3.8 V



No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.1595	76.36	-101.65	-25.29	-76.79	23.55	-27.95	-48.84	peak
2	0.1794	73.27	-101.68	-28.41	-79.91	22.53	-28.97	-50.94	peak
3	0.2088	68.3	-101.73	-33.43	-84.93	21.21	-30.29	-54.64	peak
4	0.2651	65.11	-101.82	-36.71	-88.21	19.13	-32.37	-55.84	peak
5	0.3234	60.98	-101.88	-40.9	-92.40	17.41	-34.09	-58.31	peak
6	0.383	56.2	-101.94	-45.74	-97.24	15.94	-35.56	-61.68	peak

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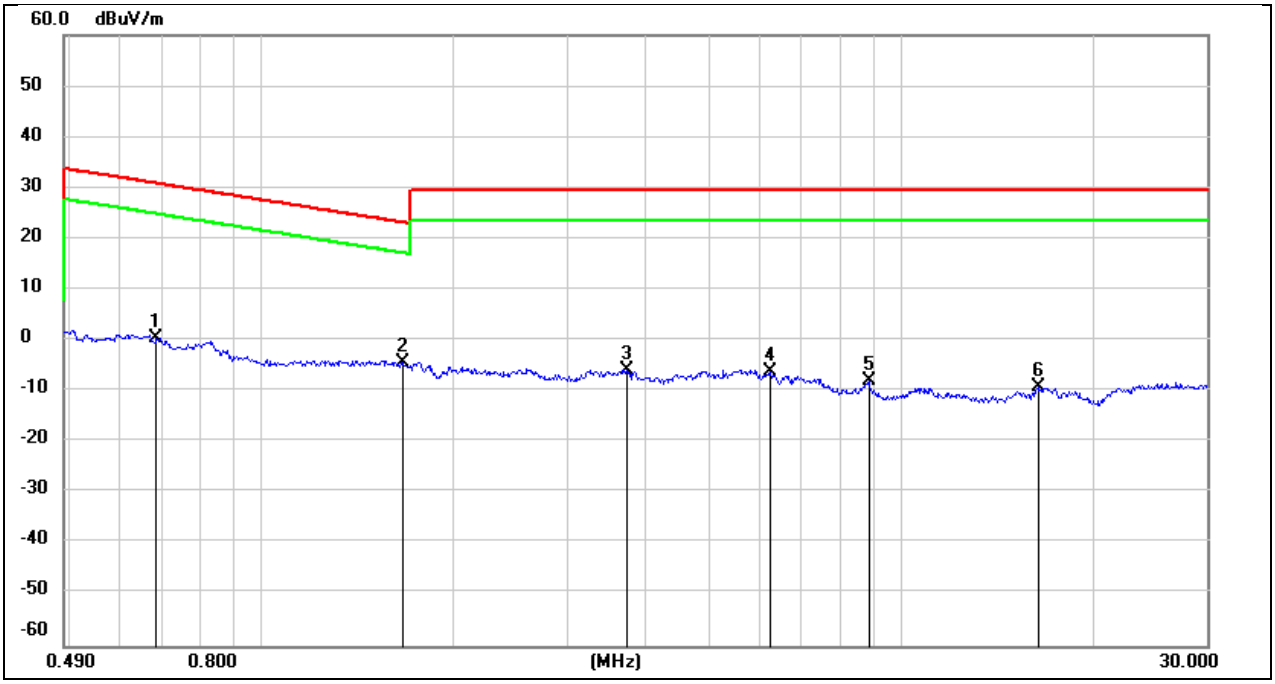
Test Mode:	SRD 2.4GHZ	Frequency(MHz):	2460
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 3.8 V



No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.6834	62.71	-62.11	0.6	-50.90	30.91	-20.59	-30.31	peak
2	1.6631	57.72	-61.97	-4.25	-55.75	23.18	-28.32	-27.43	peak
3	3.71	55.7	-61.41	-5.71	-57.21	29.54	-21.96	-35.25	peak
4	6.2445	55.13	-61.32	-6.19	-57.69	29.54	-21.96	-35.73	peak
5	8.9001	52.91	-60.95	-8.04	-59.54	29.54	-21.96	-37.58	peak
6	16.3959	51.67	-60.96	-9.29	-60.79	29.54	-21.96	-38.83	peak

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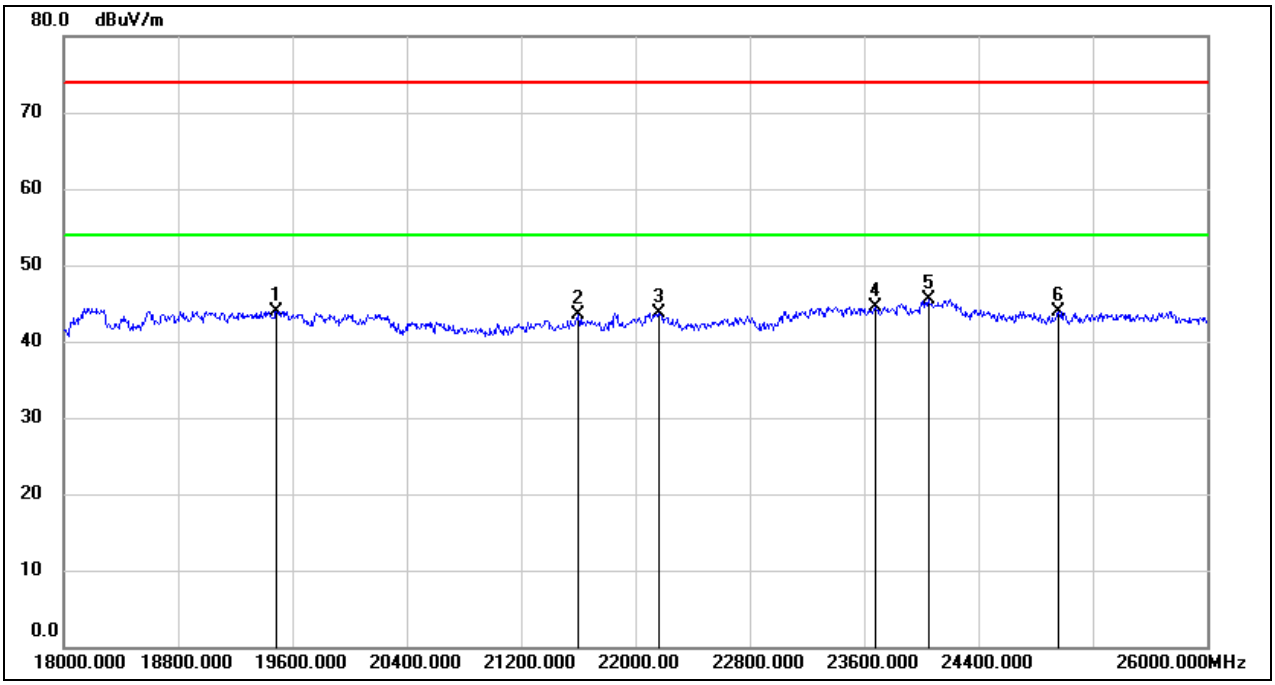
8.5. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

Test Mode:	SRD 2.4GHz	Frequency(MHz):	2460
Polarity:	Horizontal	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19488.000	49.55	-5.56	43.99	74.00	-30.01	peak
2	21600.000	48.02	-4.54	43.48	74.00	-30.52	peak
3	22160.000	48.08	-4.31	43.77	74.00	-30.23	peak
4	23680.000	47.66	-3.18	44.48	74.00	-29.52	peak
5	24048.000	48.22	-2.76	45.46	74.00	-28.54	peak
6	24960.000	46.14	-2.14	44.00	74.00	-30.00	peak

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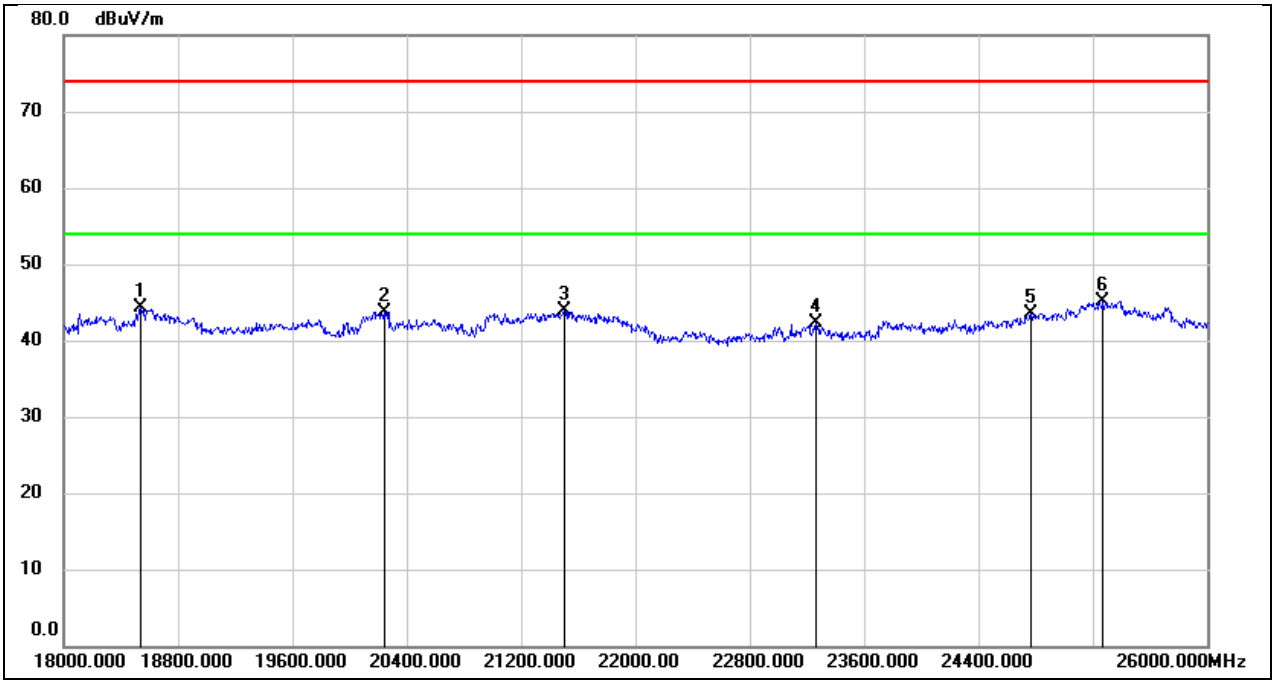
Test Mode:	SRD 2.4GHz	Frequency(MHz):	2460
Polarity:	Vertical	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18536.000	49.60	-5.27	44.33	74.00	-29.67	peak
2	20240.000	49.32	-5.61	43.71	74.00	-30.29	peak
3	21504.000	48.53	-4.69	43.84	74.00	-30.16	peak
4	23264.000	45.76	-3.36	42.40	74.00	-31.60	peak
5	24768.000	45.87	-2.31	43.56	74.00	-30.44	peak
6	25272.000	46.73	-1.67	45.06	74.00	-28.94	peak

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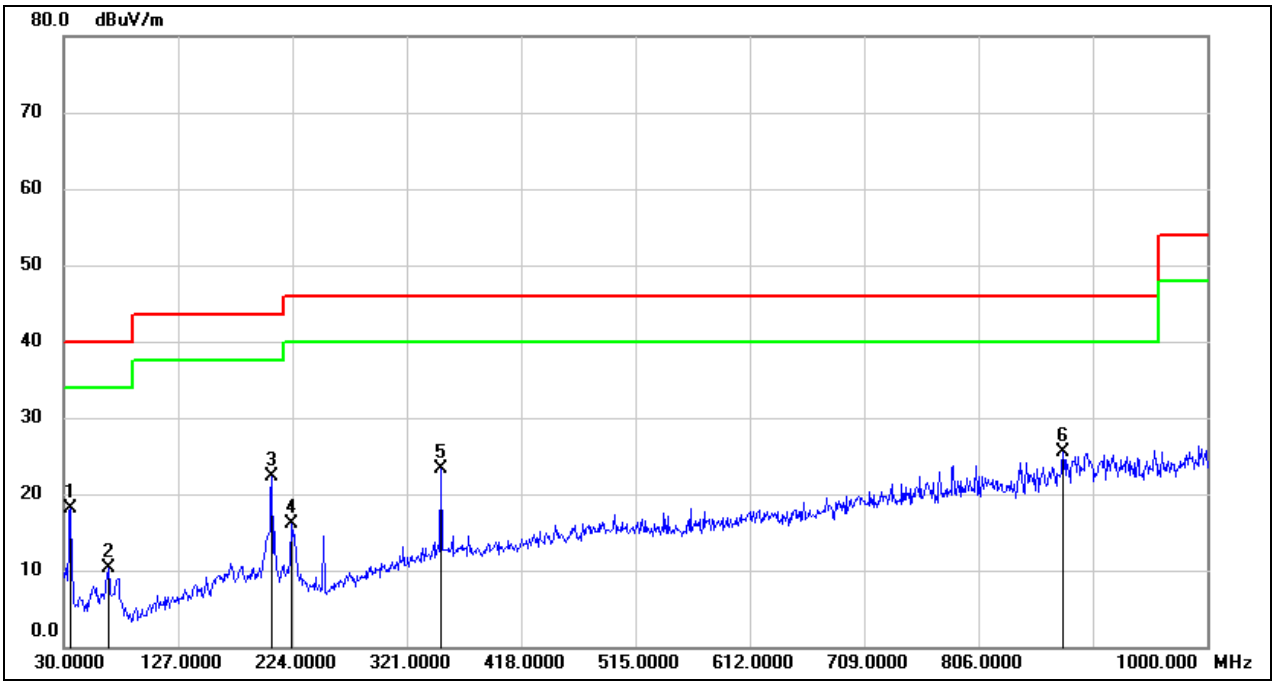
8.6. SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)

Test Mode:	SRD 2.4GHz	Frequency(MHz):	2460
Polarity:	Horizontal	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	35.8200	32.44	-14.30	18.14	40.00	-21.86	QP
2	67.8300	25.80	-15.51	10.29	40.00	-29.71	QP
3	206.5399	34.69	-12.41	22.28	43.50	-21.22	QP
4	223.0300	29.37	-13.23	16.14	46.00	-29.86	QP
5	350.1000	32.93	-9.58	23.35	46.00	-22.65	QP
6	877.7800	27.34	-1.91	25.43	46.00	-20.57	QP

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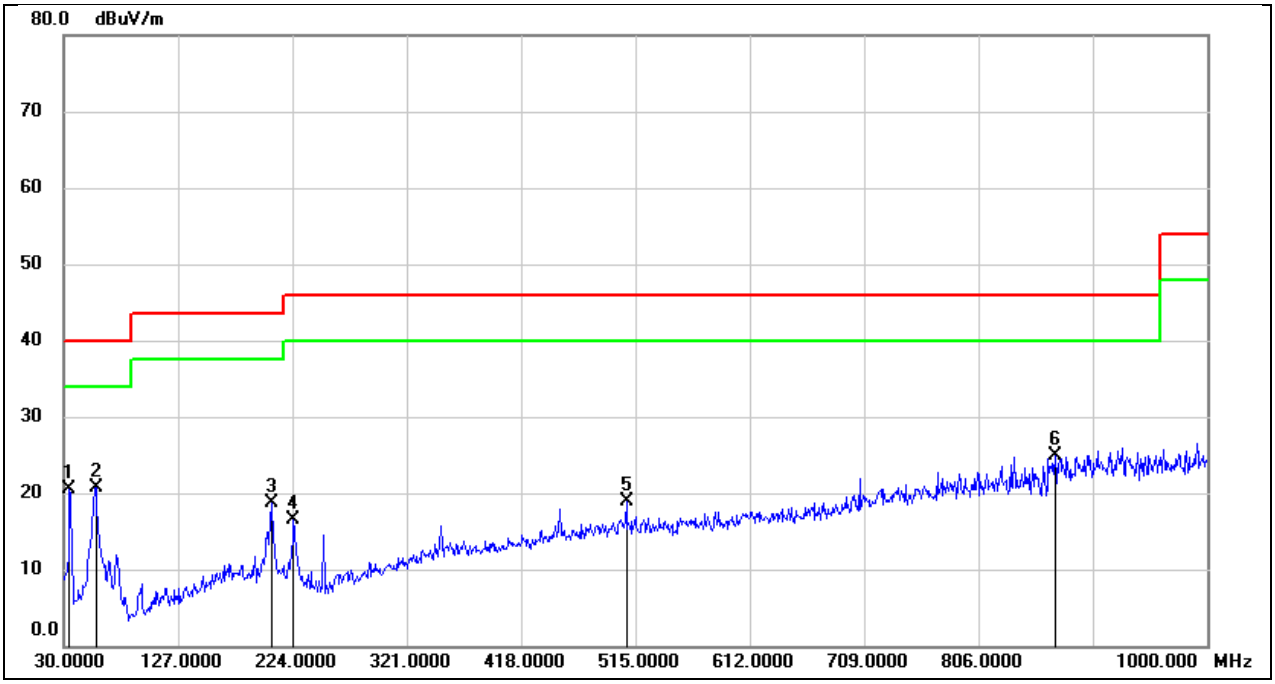
Test Mode:	SRD 2.4GHz	Frequency(MHz):	2460
Polarity:	Vertical	Test Voltage:	DC 3.8 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34.8500	34.69	-14.14	20.55	40.00	-19.45	QP
2	57.1600	36.03	-15.31	20.72	40.00	-19.28	QP
3	206.5399	31.08	-12.41	18.67	43.50	-24.83	QP
4	224.9700	29.80	-13.30	16.50	46.00	-29.50	QP
5	507.2400	26.52	-7.58	18.94	46.00	-27.06	QP
6	870.9900	26.83	-2.00	24.83	46.00	-21.17	QP

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9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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.

DESCRIPTION

Pass

END OF REPORT

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