

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

XAG Agricultural Control Stick 4

MODEL NUMBER: M3ACS4A

REPORT NUMBER: 4791519692-1-RF-1

ISSUE DATE: November 25, 2024

FCC ID: 2A46G-M3ACS4A

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	November 25, 2024	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.2.3.1	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.5	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.12 & Clause 11.13	FCC Part 15.247 (d) FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

Note:

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C> when <Simple Acceptance> decision rule is applied.

CONTENTS

1. ATTESTATION OF TEST RESULTS.....	6
2. TEST METHODOLOGY.....	7
3. FACILITIES AND ACCREDITATION.....	7
4. CALIBRATION AND UNCERTAINTY	8
4.1. <i>MEASURING INSTRUMENT CALIBRATION</i>	<i>8</i>
4.2. <i>MEASUREMENT UNCERTAINTY</i>	<i>8</i>
5. EQUIPMENT UNDER TEST	9
5.1. <i>DESCRIPTION OF EUT</i>	<i>9</i>
5.2. <i>CHANNEL LIST</i>	<i>9</i>
5.3. <i>MAXIMUM POWER</i>	<i>9</i>
5.4. <i>TEST CHANNEL CONFIGURATION.....</i>	<i>10</i>
5.5. <i>THE WORSE CASE POWER SETTING PARAMETER.....</i>	<i>10</i>
5.6. <i>WORST-CASE CONFIGURATIONS.....</i>	<i>11</i>
5.7. <i>DESCRIPTION OF AVAILABLE ANTENNAS</i>	<i>11</i>
5.8. <i>SUPPORT UNITS FOR SYSTEM TEST</i>	<i>11</i>
5.9. <i>SETUP DIAGRAM</i>	<i>12</i>
6. MEASURING EQUIPMENT AND SOFTWARE USED.....	13
7. ANTENNA PORT TEST RESULTS	16
7.1. <i>CONDUCTED OUTPUT POWER</i>	<i>16</i>
7.2. <i>6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH.....</i>	<i>17</i>
7.3. <i>POWER SPECTRAL DENSITY</i>	<i>19</i>
7.4. <i>CONDUCTED BAND EDGE AND SPURIOUS EMISSION.....</i>	<i>21</i>
7.5. <i>DUTY CYCLE</i>	<i>23</i>
8. RADIATED TEST RESULTS	24
8.1. <i>RESTRICTED BANDEDGE</i>	<i>32</i>
8.2. <i>SPURIOUS EMISSIONS(1 GHZ~3 GHZ)</i>	<i>46</i>
8.3. <i>SPURIOUS EMISSIONS(3 GHZ~18 GHZ)</i>	<i>52</i>
8.4. <i>SPURIOUS EMISSIONS(9 KHZ~30 MHZ)</i>	<i>70</i>
8.5. <i>SPURIOUS EMISSIONS(18 GHZ~26 GHZ)</i>	<i>73</i>
8.6. <i>SPURIOUS EMISSIONS(30 MHZ~1 GHZ)</i>	<i>75</i>
9. ANTENNA REQUIREMENT	77

10.	AC POWER LINE CONDUCTED EMISSION	78
11.	TEST DATA.....	81
11.1.	APPENDIX A DUTY CYCLE	81
11.2.	APPENDIX B MAXIMUM CONDUCTED OUTPUT POWER.....	83
11.3.	APPENDIX C 6DB BANDWIDTH.....	84
11.4.	APPENDIX D OCCUPIED CHANNEL BANDWIDTH	88
11.5.	APPENDIX E MAXIMUM POWER SPECTRAL DENSITY LEVEL	92
11.6.	APPENDIX F BAND EDGE.....	96
11.7.	APPENDIX G CONDUCTED RF SPURIOUS EMISSION.....	101

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Guangzhou Xaircraft Technology CO.,LTD
Address: Block C, No.115, Gaopu Road, Tianhe District, GuangzhouCity, Guangdong,P.R.China

Manufacturer Information

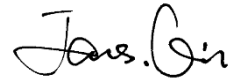
Company Name: Guangzhou Xaircraft Technology CO.,LTD
Address: Block C, No.115, Gaopu Road, Tianhe District, GuangzhouCity, Guangdong,P.R.China

EUT Information

EUT Name: XAG Agricultural Control Stick 4
Model: M3ACS4A
Sample Received Date: September 30, 2024
Sample Status: Normal
Sample ID: 7711510
Date of Tested: October 15, 2024 to November 25, 2024

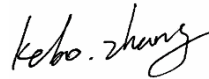
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	Pass

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part 2, 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
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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.

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
Conduction emission	3.62 dB
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%
DTS and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.686 dB
Maximum Power Spectral Density Level	±0.743 dB
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions In Non-restricted Frequency Bands	±0.746 dB (9 kHz ~ 1 GHz)
	±1.328dB (1 GHz ~ 26 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	XAG Agricultural Control Stick 4
Model	M3ACS4A
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2462 MHz
Support Standards:	CFR 47 FCC PART 15 SUBPART C
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n: Up to MCS7
Radio Technology:	IEEE 802.11b/g/n HT20
Antenna Type:	FPC Antenna
Antenna Gain:	2.14 dBi
Normal Test Voltage:	DC 3.7 V via battery
EUT Test software:	EspRFTTestTool

5.2. CHANNEL LIST

Channel List For Bandwidth=20 MHz							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/

5.3. MAXIMUM POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)
b	2412 ~ 2462	1-11[11]	11.35
g	2412 ~ 2462	1-11[11]	14.68
n HT20	2412 ~ 2462	1-11[11]	15.32

5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band				
Test Software		MP Tool		
Modulation Mode	Transmit Antenna Number	Test Channel		
		NCB: 20MHz		
		CH 1	CH 6	CH 11
802.11b	1	31	31	31
802.11g	1	14	14	14
802.11n HT20	1	8	8	8

5.6. WORST-CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n HT20 mode: MCS0

802.11b/g/n only support SISO mode.

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.

5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	FPC	2.14

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	☒1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.

Note:

1. BT&WLAN 2.4G, can't transmit simultaneously. (declared by client)

5.8. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit

5.9. SETUP DIAGRAM



6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Power sensor, Power Meter	R&S	OSP120	100921	Mar.25,2024	Mar.24,2025
Vector Signal Generator	R&S	SMBV100A	261637	Sep.28, 2024	Sep.27, 2025
Signal Generator	R&S	SMB100A	178553	Sep.28, 2024	Sep.27, 2025
Signal Analyzer	R&S	FSV40	101118	Sep.28, 2024	Sep.27, 2025
Software					
Description	Manufacturer		Name	Version	
For R&S TS 8997 Test System	Rohde & Schwarz		EMC 32	10.60.10	
Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.13, 2024	Sep.12, 2025
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Sep.28, 2024	Sep.27, 2025
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Sep.28, 2024	Sep.27, 2025
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Sep.28, 2024	Sep.27, 2025
DC power supply	Keysight	E3642A	MY55159130	Sep.28, 2024	Sep.27, 2025
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Sep.28, 2024	Sep.27, 2025
Attenuator	Aglient	8495B	2814a12853	Sep.28, 2024	Sep.27, 2025
RF Control Unit	Tonscend	JS0806-2	23B80620666	Mar.25,2024	Mar.24,2025
Software					
Description	Manufacturer	Name		Version	
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System		V3.2.22	

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Sep.28, 2024	Sep.27, 2025
Two-Line V-Network	R&S	ENV216	101983	Sep.28, 2024	Sep.27, 2025
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Sep.28, 2024	Sep.27, 2025
Software					
Description			Manufacturer	Name	Version
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.28, 2024	Sep.27, 2025
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	May.08, 2023	May.07 2026
Preamplifier	HP	8447D	2944A09099	Sep.28, 2024	Sep.27, 2025
EMI Measurement Receiver	R&S	ESR26	101377	Sep.28, 2024	Sep.27, 2025
Horn Antenna	TDK	HRN-0118	130939	Apr.29, 2022	Apr.28, 2025
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Sep.28, 2024	Sep.27, 2025
Horn Antenna	Schwarzbeck	BBHA9170	697	Jun 30, 2024	Jun 29, 2027
Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep.28, 2024	Sep.27, 2025
Preamplifier	TDK	PA-02-3	TRS-308-00002	Sep.28, 2024	Sep.27, 2025
Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Sep.28, 2024	Sep.27, 2025
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Sep.28, 2024	Sep.27, 2025
Software					
Description			Manufacturer	Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.8, 2024	Oct.7, 2025
Barometer	Yiyi	Baro	N/A	Oct.10, 2024	Oct.9, 2025
Attenuator	Agilent	8495B	2814a12853	Sep.28, 2024	Sep.27, 2025

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3)	AVG Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

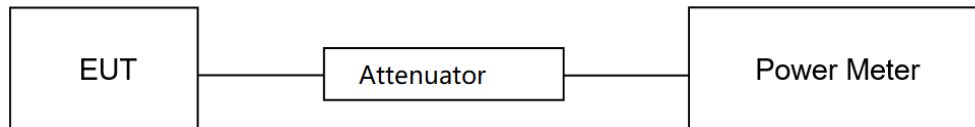
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the average output power, after any corrections for external attenuators and cables.

The test result in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.1°C	Relative Humidity	50.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	October 22, 2024	Test By	Walker Yuan
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TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

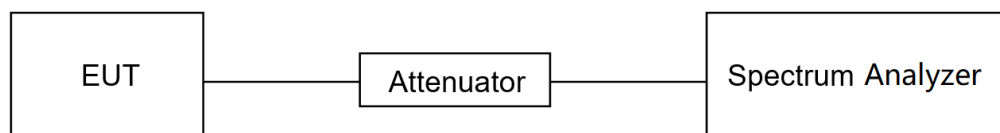
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW For 99 % Occupied Bandwidth: $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) 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 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.1°C	Relative Humidity	50.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	October 22, 2024	Test By	Walker Yuan
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TEST RESULTS

Please refer to section "Test Data" - Appendix C&D

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.5.

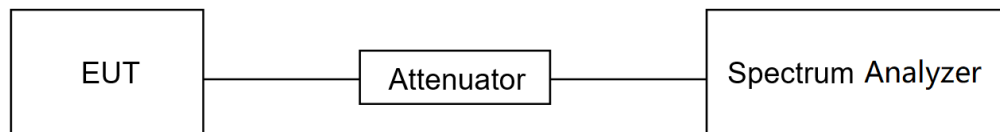
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	power averaging (rms)
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{OBW bandwidth}$
Trace	Employ trace averaging(rms)mode over a minimum of 100 traces
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.1°C	Relative Humidity	50.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	October 22, 2024	Test By	Walker Yuan
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TEST RESULTS

Please refer to section "Test Data" - Appendix E

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyzer and use the following settings for reference level measurement:

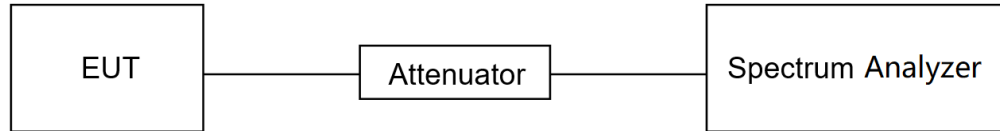
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP**TEST ENVIRONMENT**

Temperature	23.1°C	Relative Humidity	50.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	October 22, 2024	Test By	Walker Yuan
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TEST RESULTS

Please refer to section "Test Data" - Appendix F&G

7.5. DUTY CYCLE

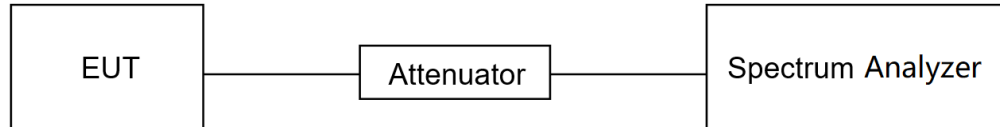
LIMITS

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	23.1°C	Relative Humidity	50.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	October 22, 2024	Test By	Walker Yuan
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TEST RESULTS

Please refer to section "Test Data" - Appendix A

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)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit ($\mu\text{V/m}$) at 3 m	Field Strength Limit (dB $\mu\text{V/m}$) 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	$2400/F(\text{kHz})$	300
0.490-1.705	$24000/F(\text{kHz})$	30
1.705-30.0	30	30

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: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

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.

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.

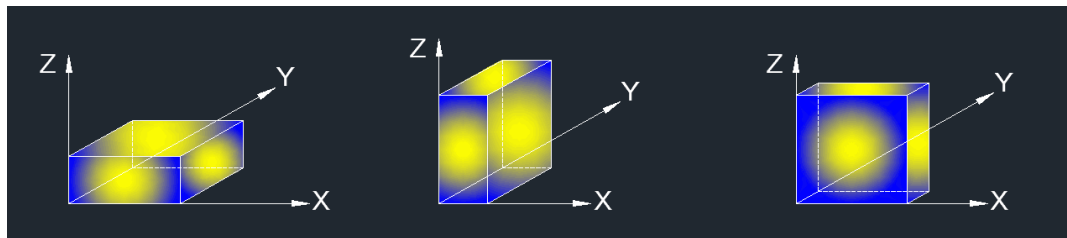
Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
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 and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.5. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (Z axis) data recorded in the report.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

For Restricted Bandedge:

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. PK=Peak: Peak detector.
4. AV=Average: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
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 have been tested, but 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 have been tested, but only the worst data was recorded in the report.
5. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}[120\pi] = \text{dBuV/m} - 51.5$

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 have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 3 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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
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 have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):

Note:

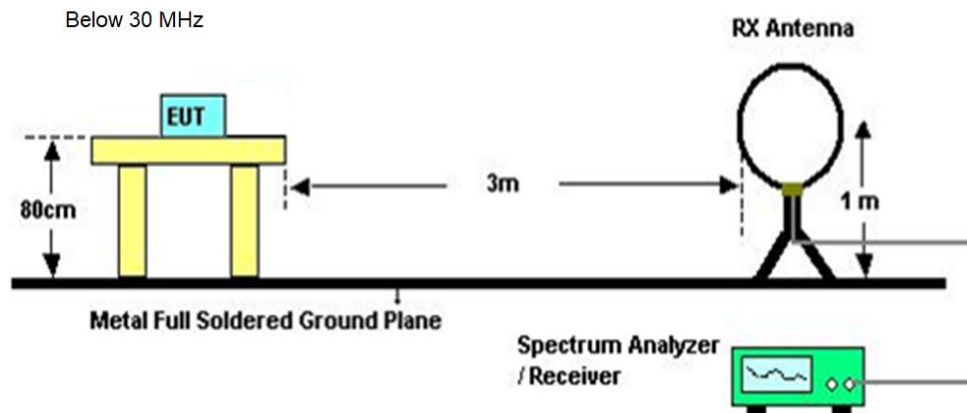
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
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 have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):

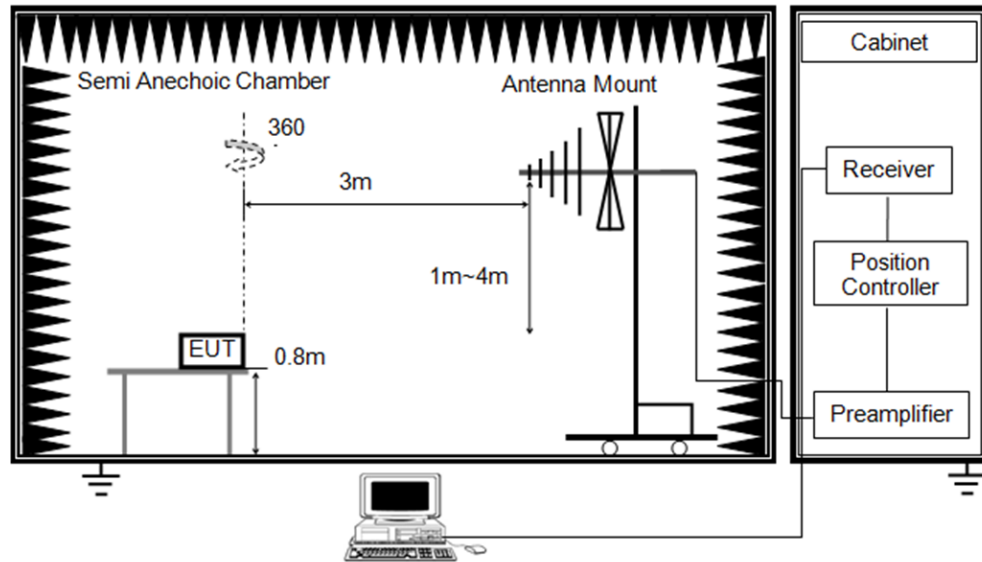
Note:

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 have been tested, but only the worst data was recorded in the report.

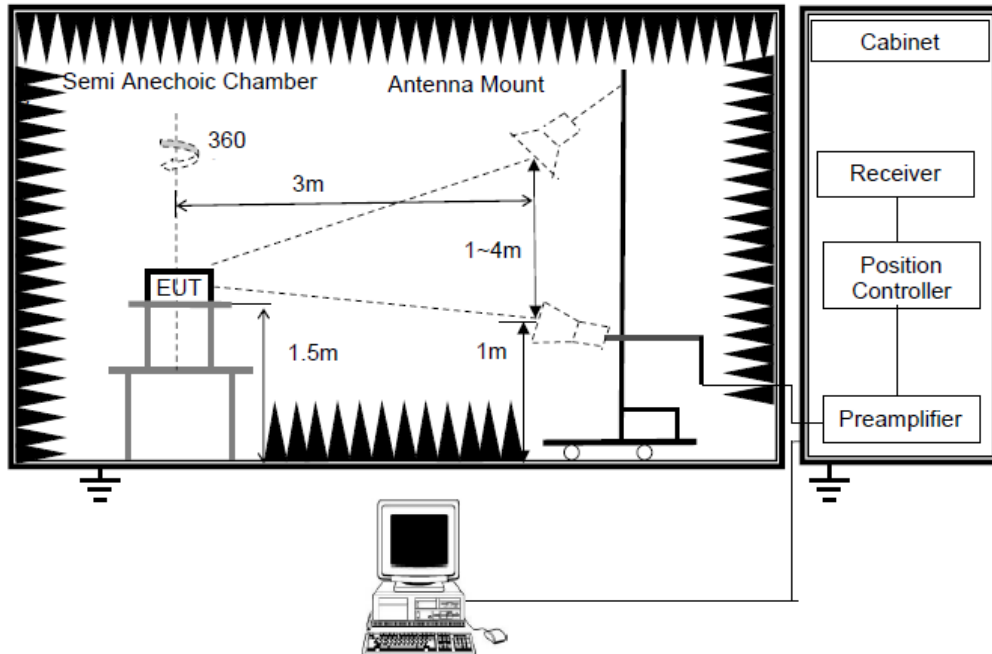
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1GHz



TEST ENVIRONMENT

Temperature	20.8°C	Relative Humidity	59.2%
Atmosphere Pressure	101kPa	Test Voltage	

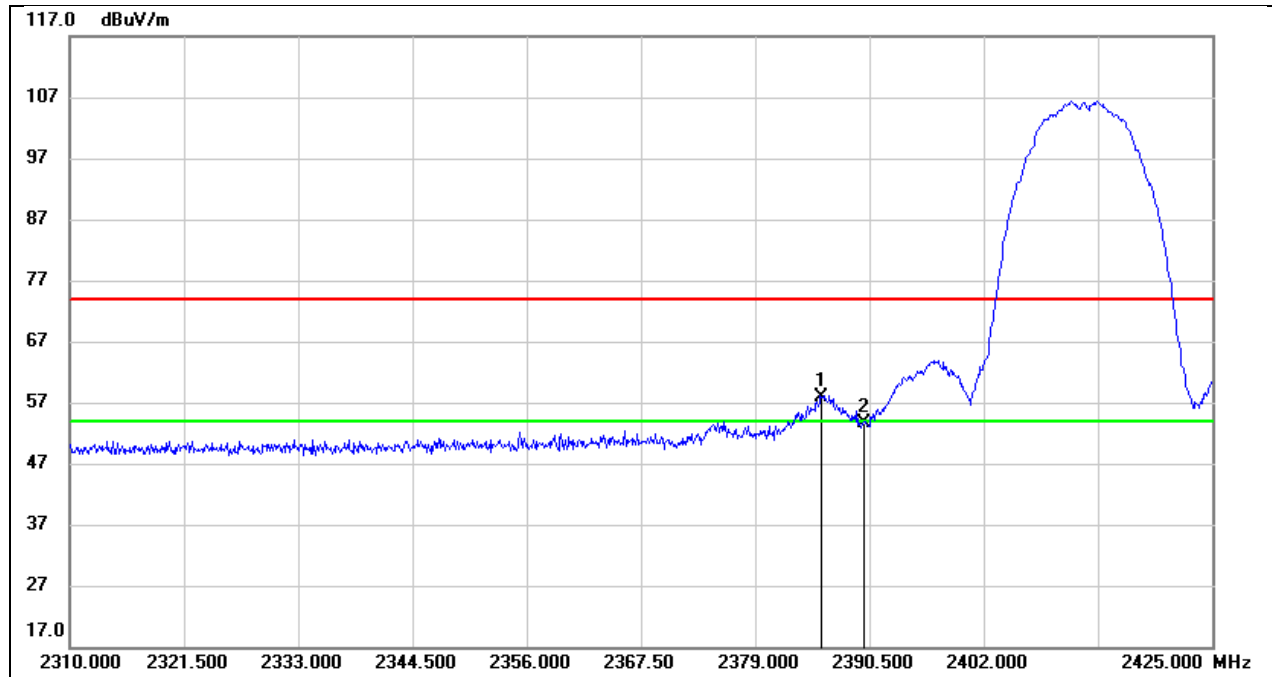
TEST DATE / ENGINEER

Test Date	November 24, 2024	Test By	Mason Wang
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TEST RESULTS

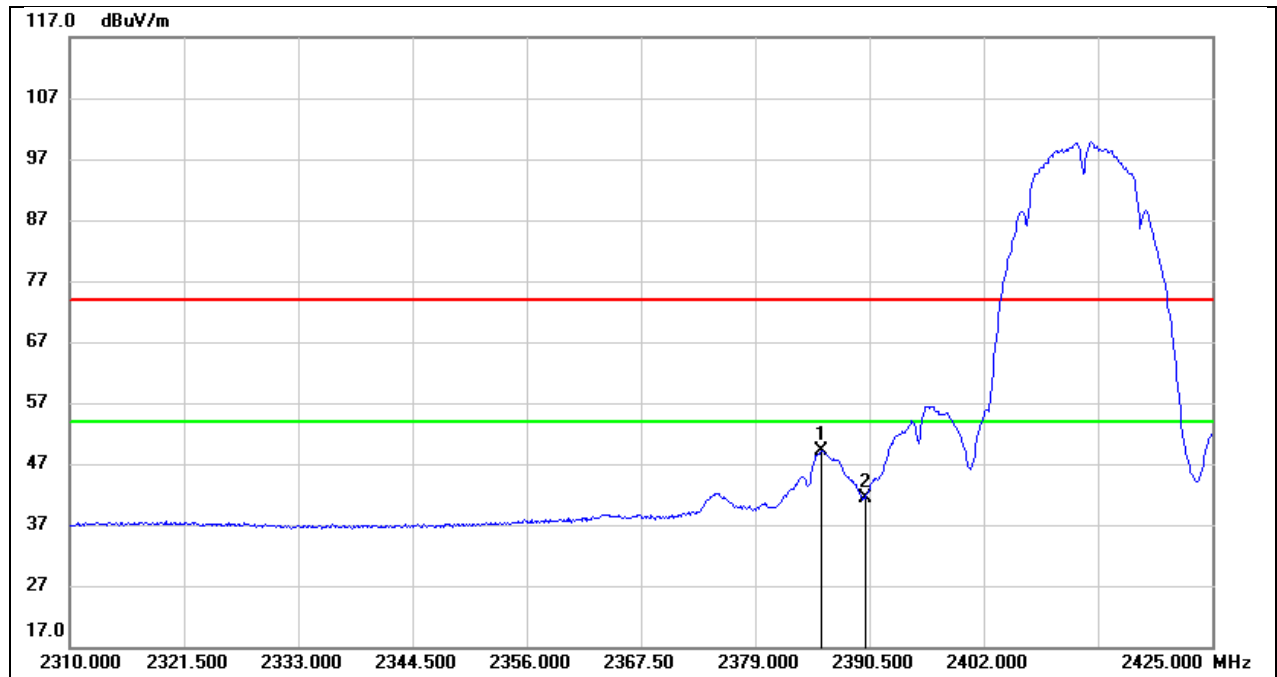
8.1. RESTRICTED BANDEDGE

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.7V



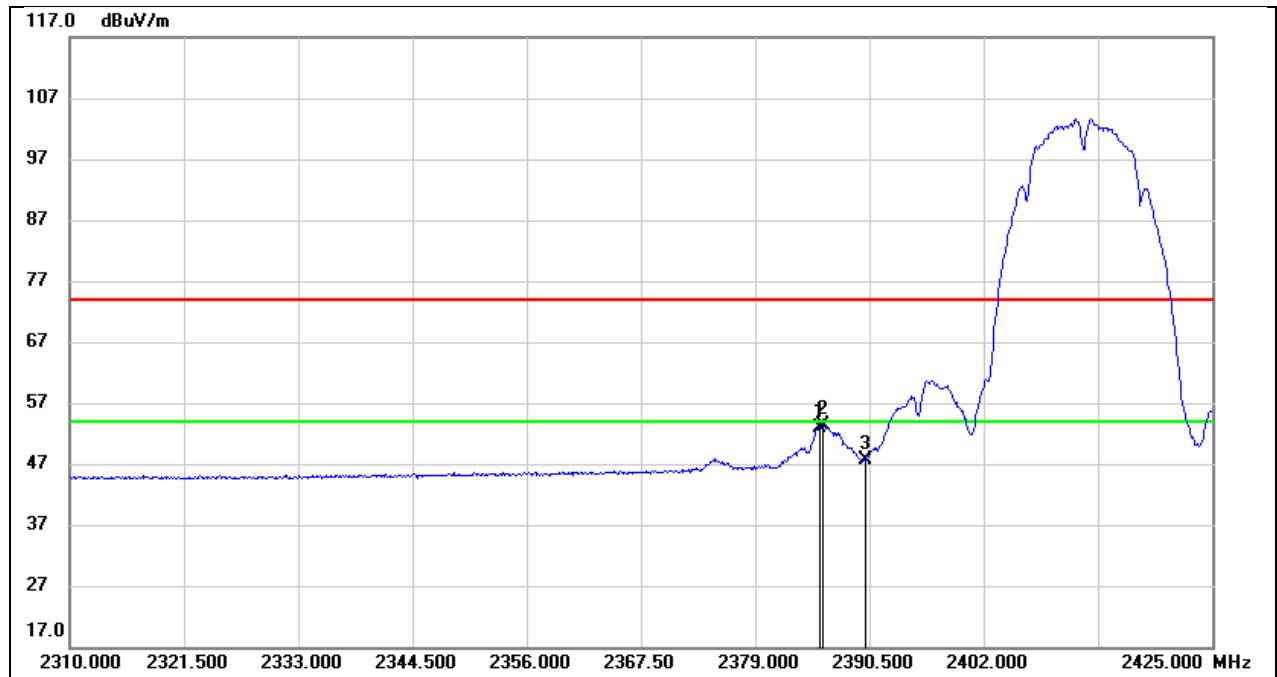
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.670	26.08	31.71	57.79	74.00	-16.21	peak
2	2390.000	21.86	31.73	53.59	74.00	-20.41	peak

Test Mode:	802.11b AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.7V



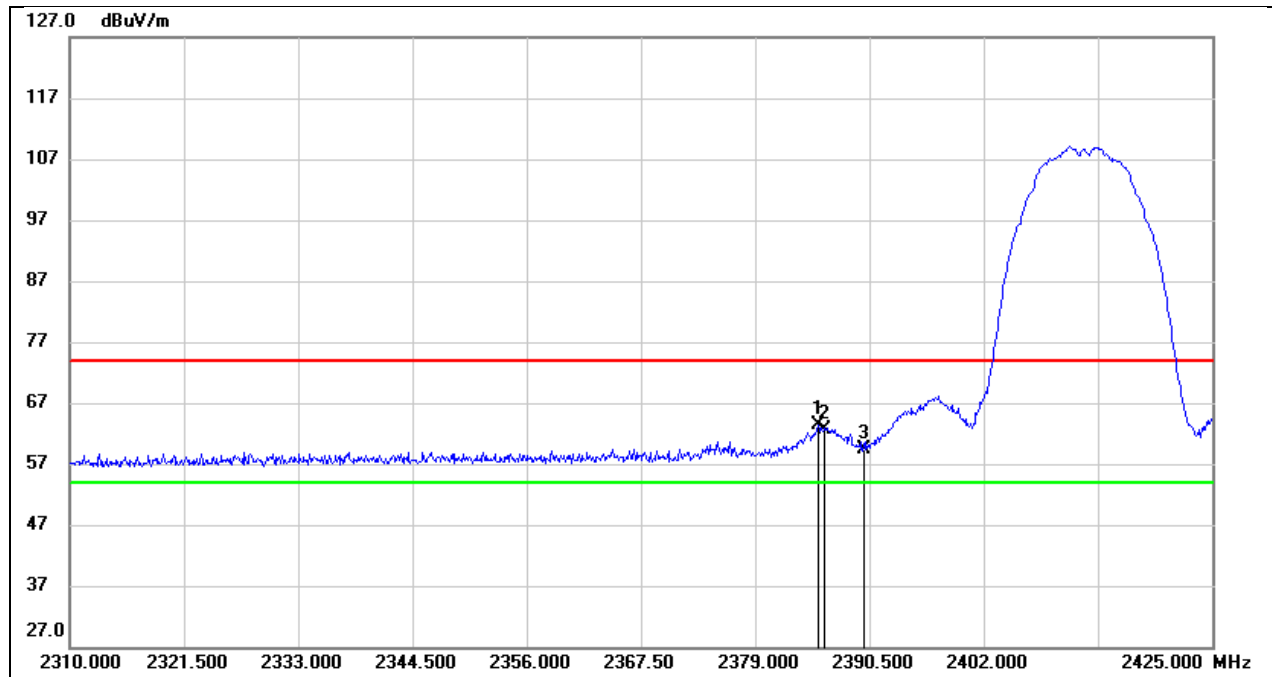
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.670	17.40	31.71	49.11	54.00	-4.89	AVG
2	2390.000	9.74	31.73	41.47	54.00	-12.53	AVG

Test Mode:	802.11b AV	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.7V



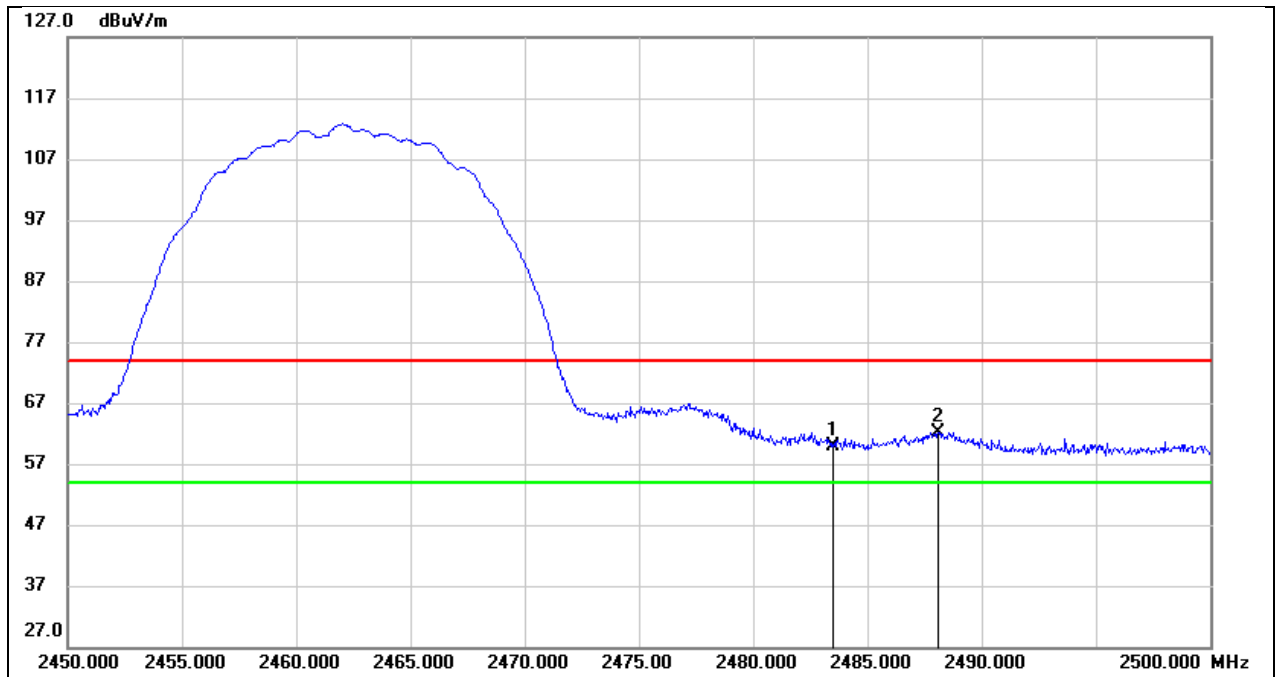
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.325	20.42	32.53	52.95	54.00	-1.05	AVG
2	2385.785	20.84	32.53	53.37	54.00	-0.63	AVG
3	2390.000	15.14	32.55	47.69	54.00	-6.31	AVG

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.7V



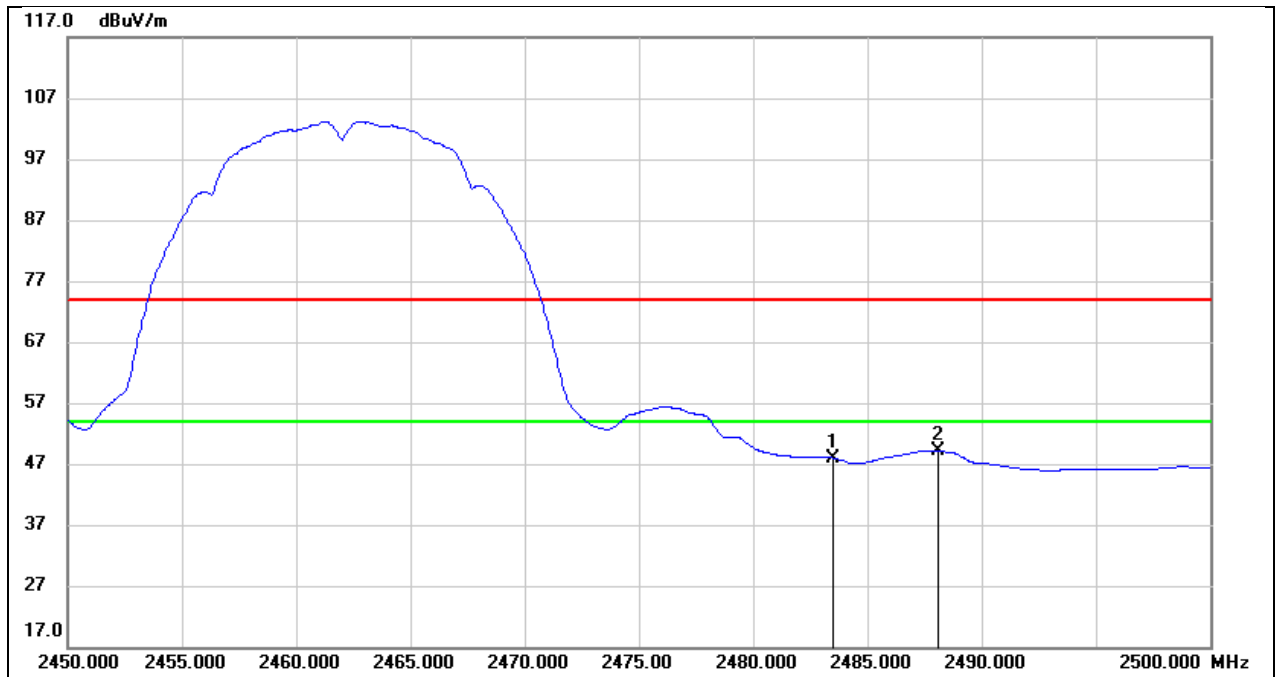
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.325	30.80	32.53	63.33	74.00	-10.67	peak
2	2385.785	30.18	32.53	62.71	74.00	-11.29	peak
3	2390.000	26.73	32.55	59.28	74.00	-14.72	peak

Test Mode:	802.11b PK	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.7V



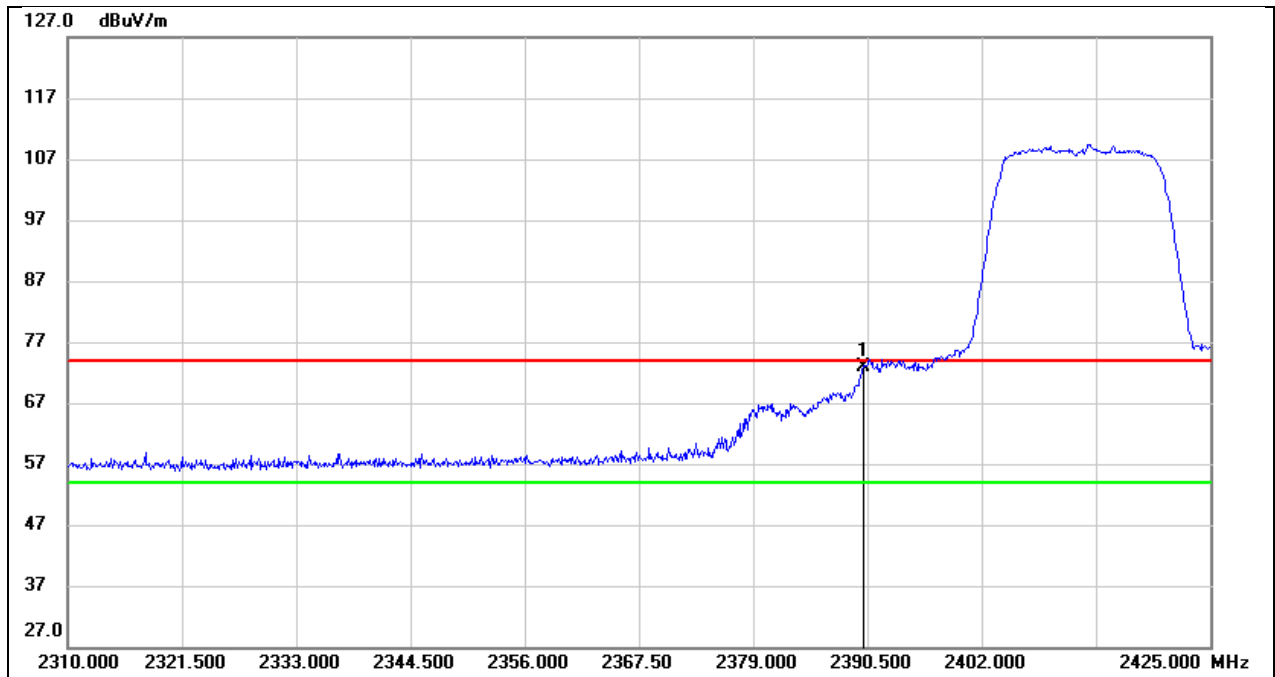
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	26.98	32.80	59.78	74.00	-14.22	peak
2	2488.100	29.38	32.81	62.19	74.00	-11.81	peak

Test Mode:	802.11b AV	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.7V



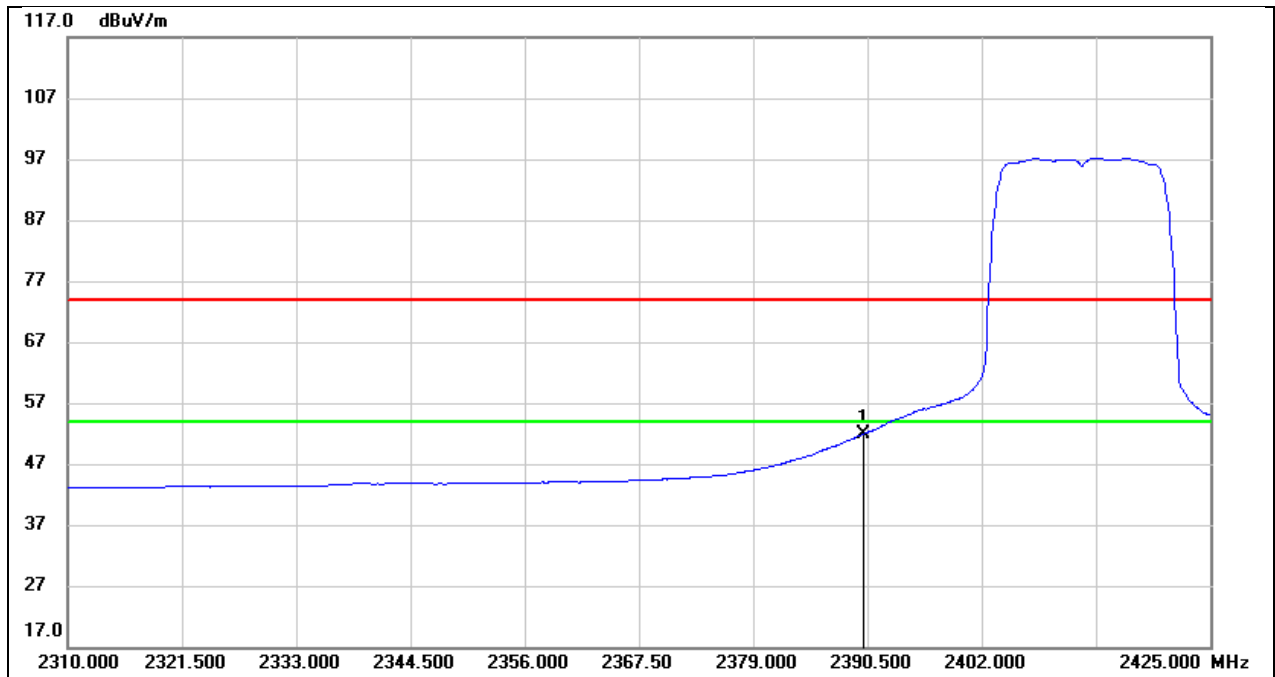
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.19	32.80	47.99	54.00	-6.01	AVG
2	2488.100	16.21	32.81	49.02	54.00	-4.98	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.7V



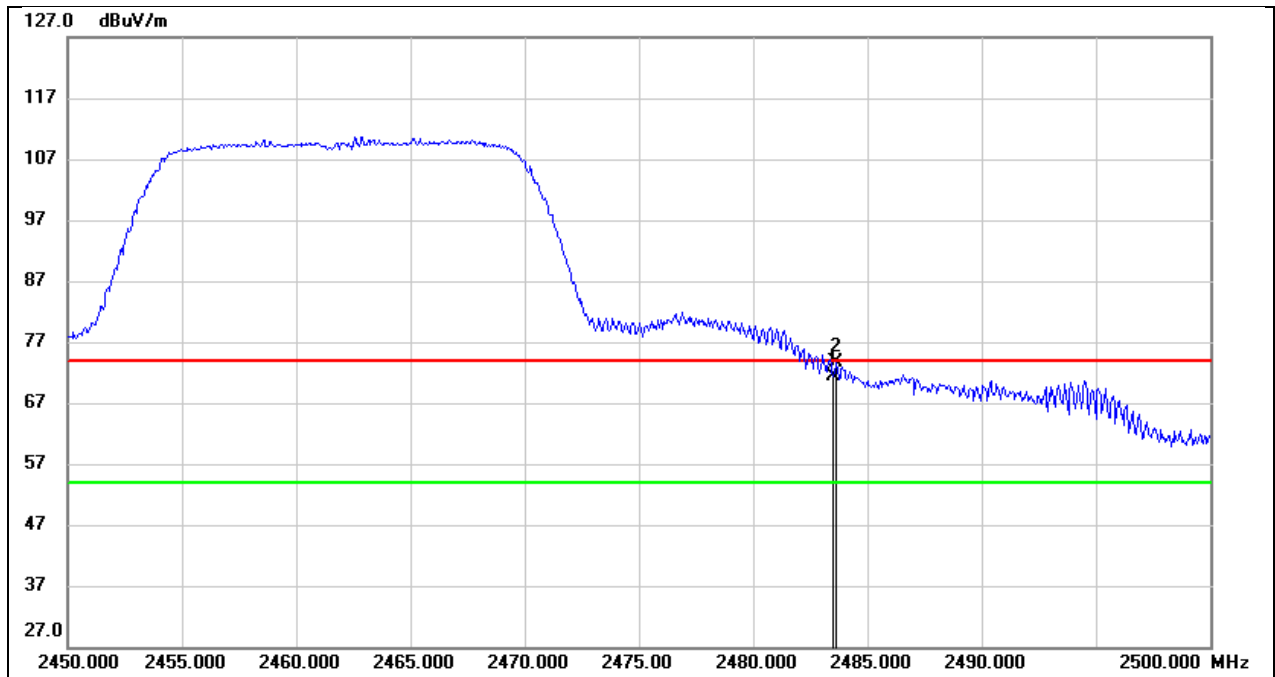
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	40.26	32.55	72.81	74.00	-1.19	peak

Test Mode:	802.11g AV	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.7V



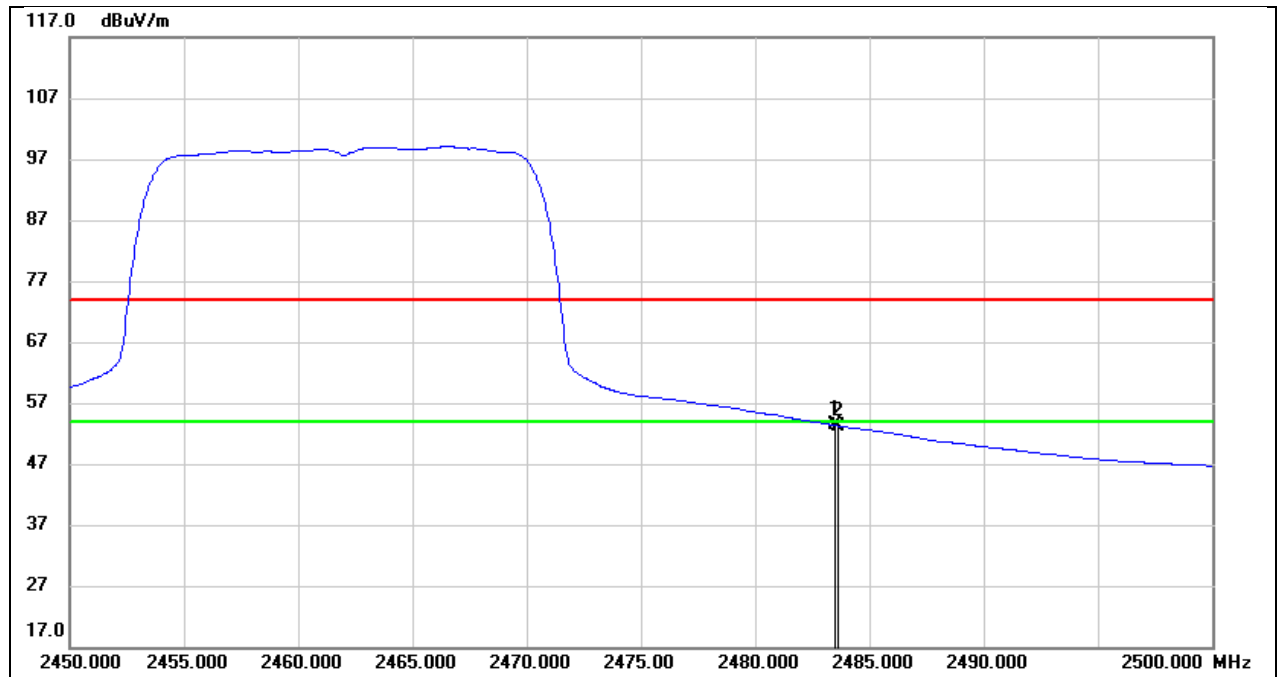
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	19.31	32.55	51.86	54.00	-2.14	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.7V



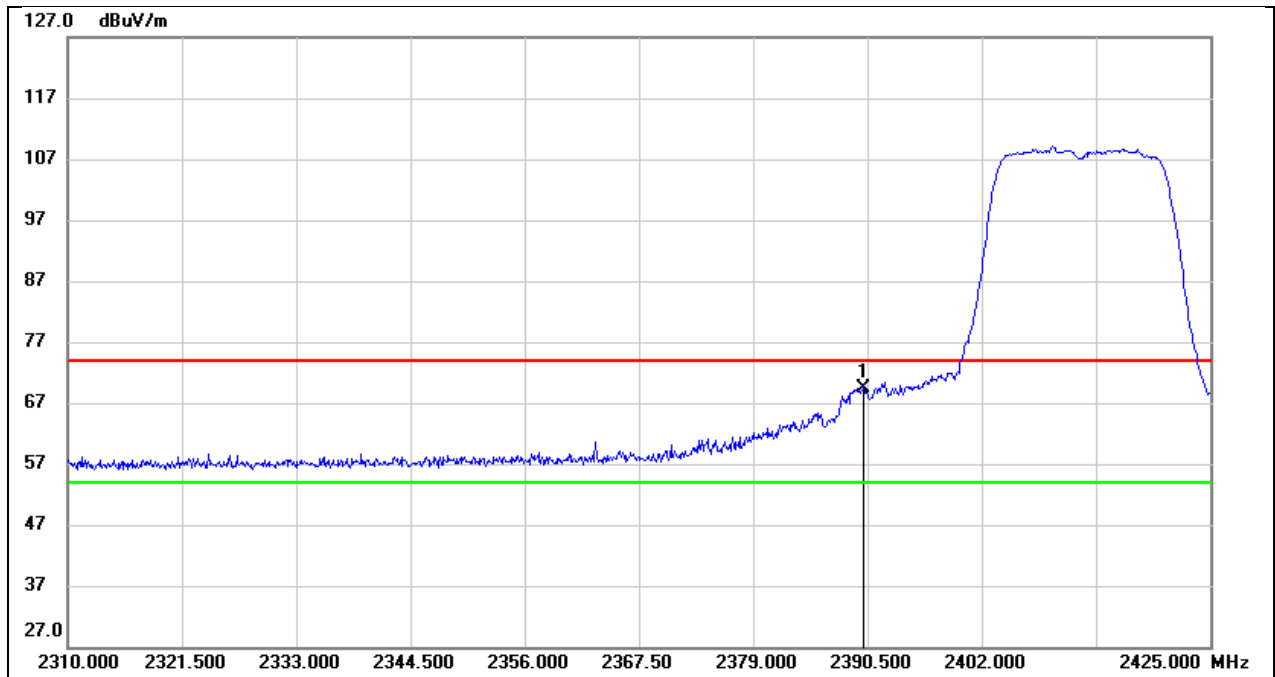
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.62	32.80	71.42	74.00	-2.58	peak
2	2483.600	40.93	32.80	73.73	74.00	-0.27	peak

Test Mode:	802.11g AV	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.7V



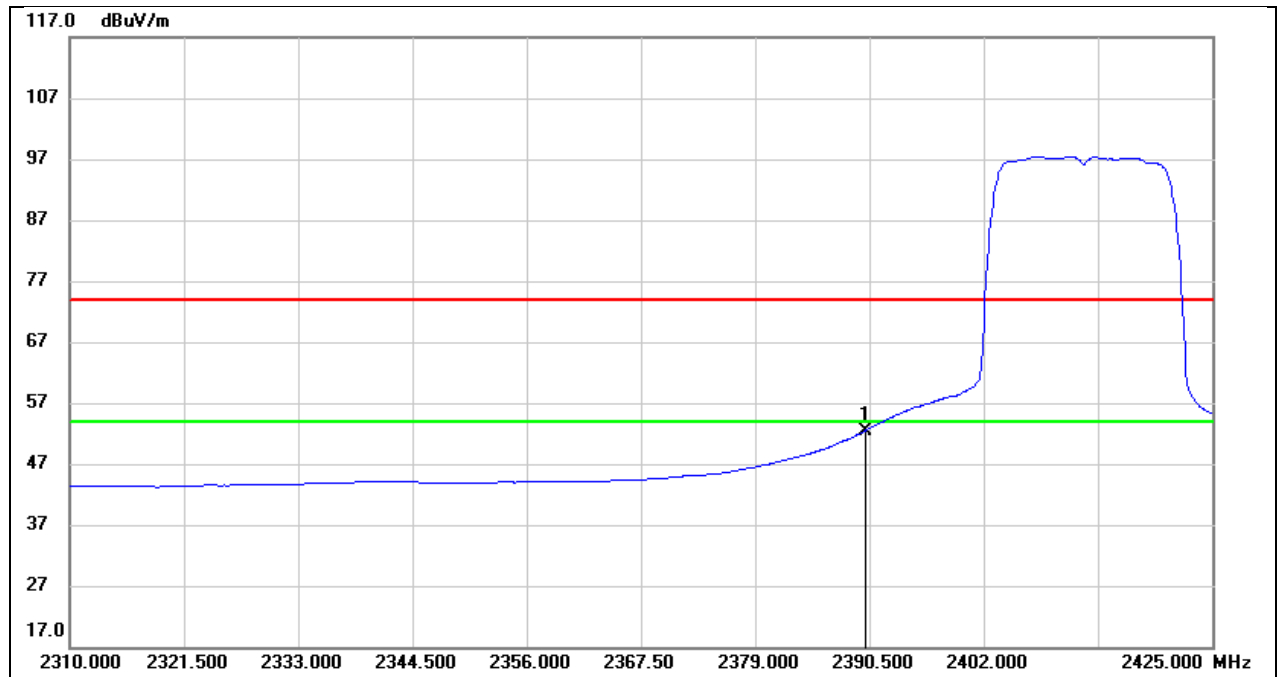
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	20.54	32.80	53.34	54.00	-0.66	AVG
2	2483.600	20.45	32.80	53.25	54.00	-0.75	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.7V



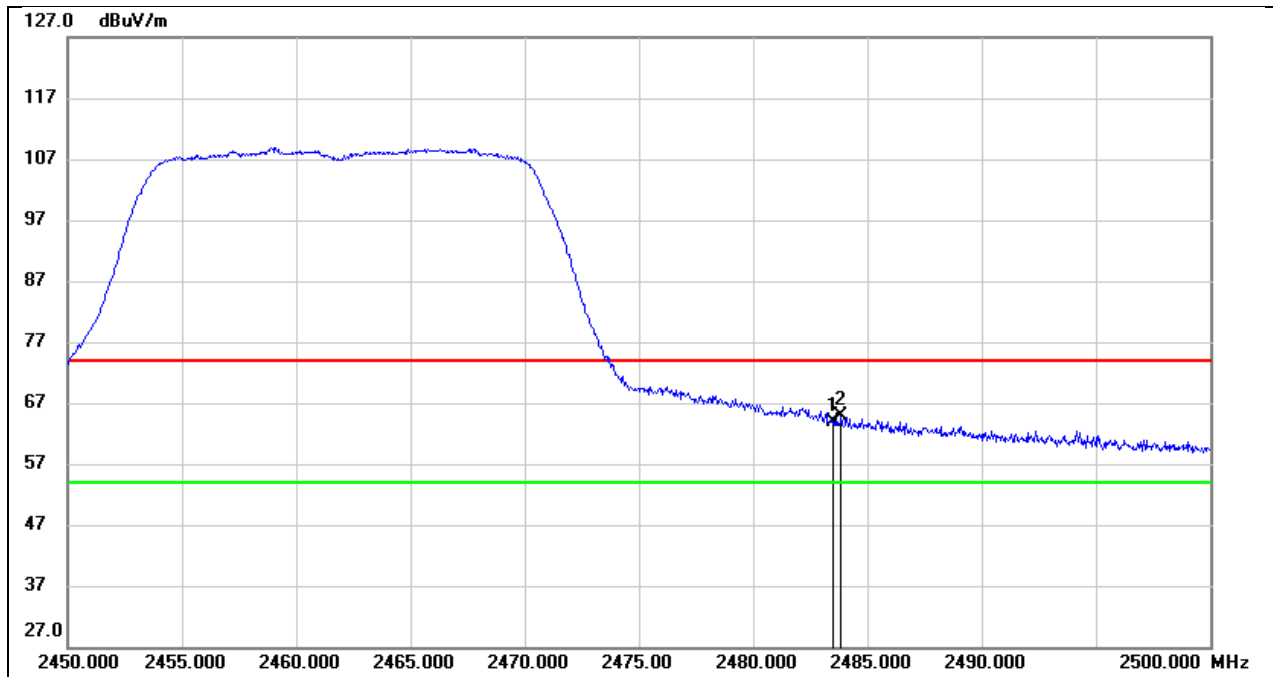
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	36.85	32.55	69.40	74.00	-4.60	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.7V



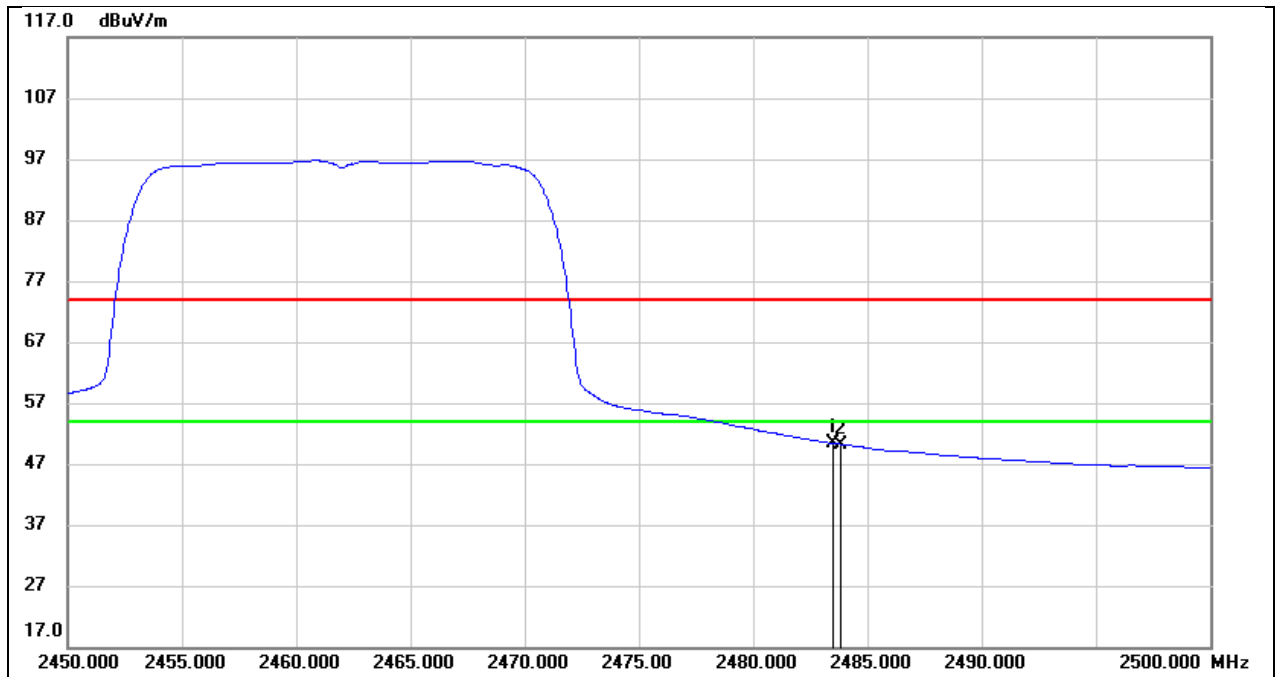
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	19.86	32.55	52.41	54.00	-1.59	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	31.18	32.80	63.98	74.00	-10.02	peak
2	2483.850	32.15	32.80	64.95	74.00	-9.05	peak

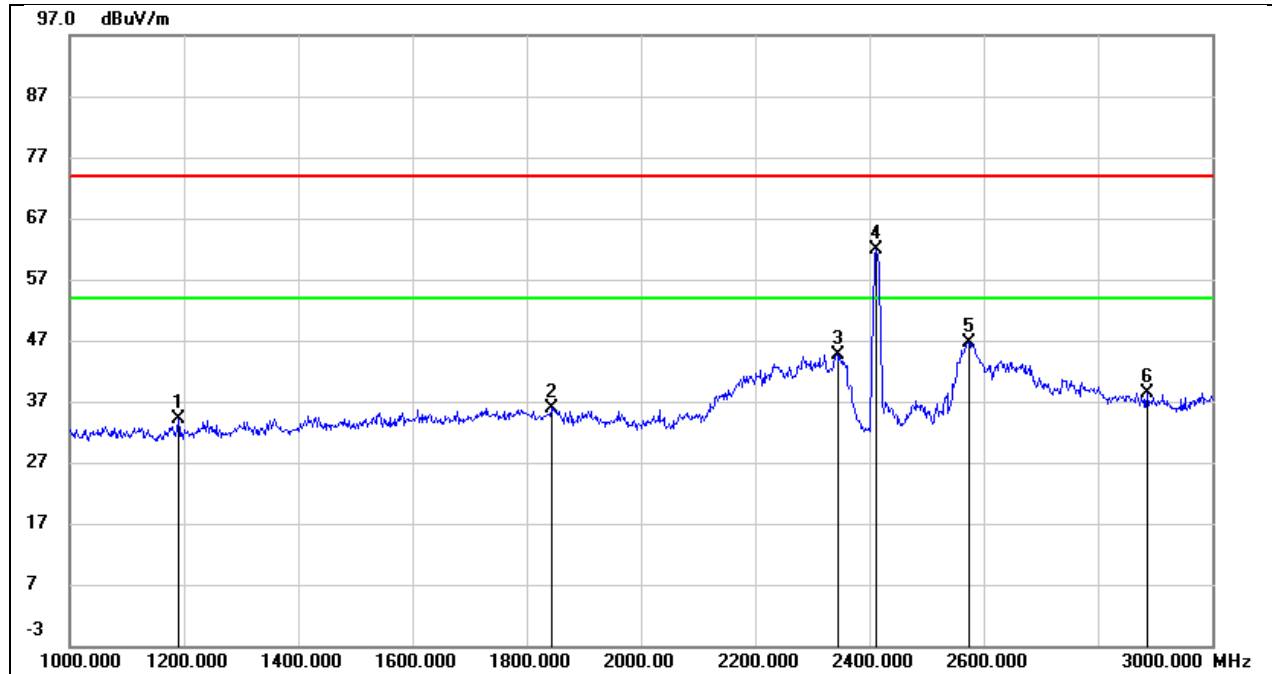
Test Mode:	802.11n HT20 AV	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	17.50	32.80	50.30	54.00	-3.70	AVG
2	2483.850	17.37	32.80	50.17	54.00	-3.83	AVG

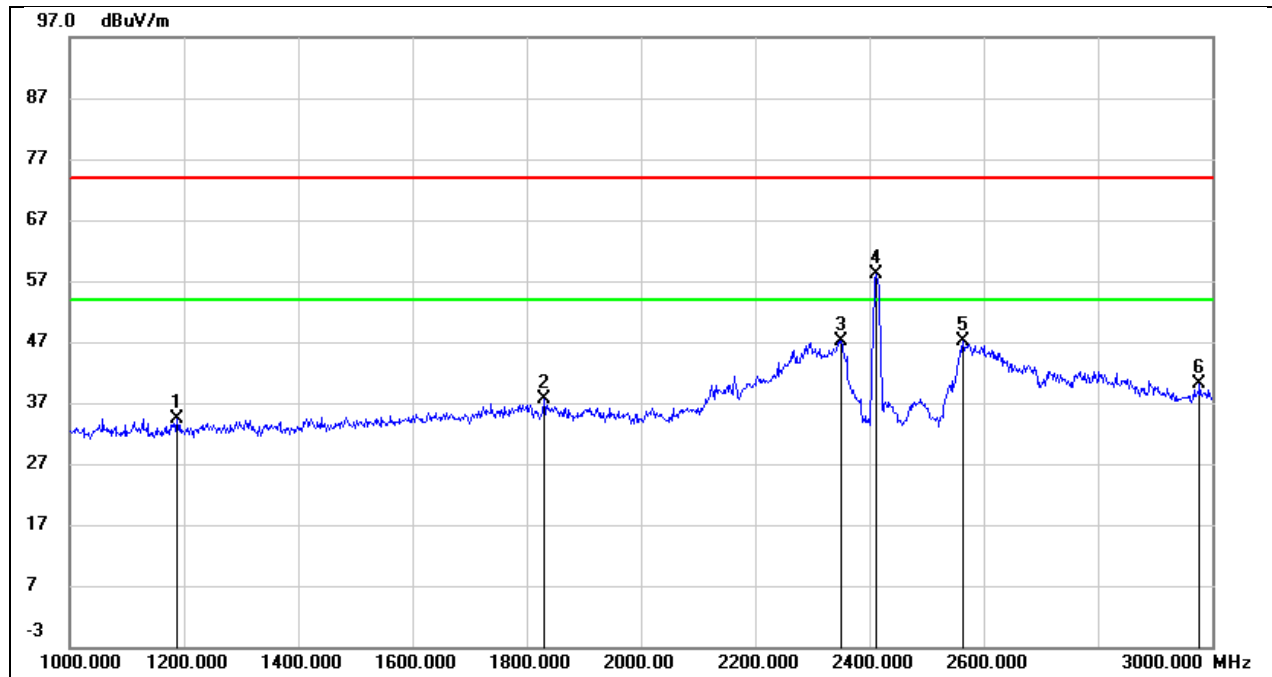
8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.7V



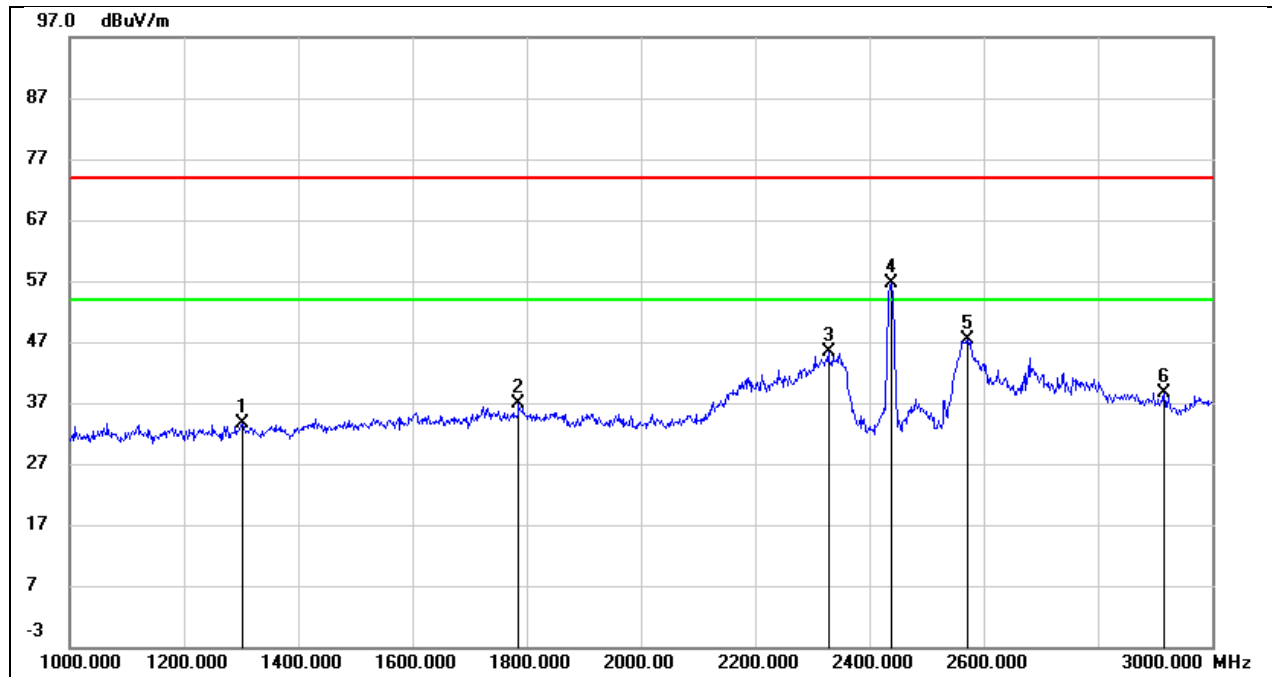
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1190.000	47.46	-13.36	34.10	74.00	-39.90	peak
2	1844.000	45.94	-9.96	35.98	74.00	-38.02	peak
3	2344.000	53.48	-8.76	44.72	74.00	-29.28	peak
4	2412.000	70.32	-8.51	61.81	\	\	fundamental
5	2574.000	54.39	-7.82	46.57	74.00	-27.43	peak
6	2886.000	44.84	-6.44	38.40	74.00	-35.60	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.7V



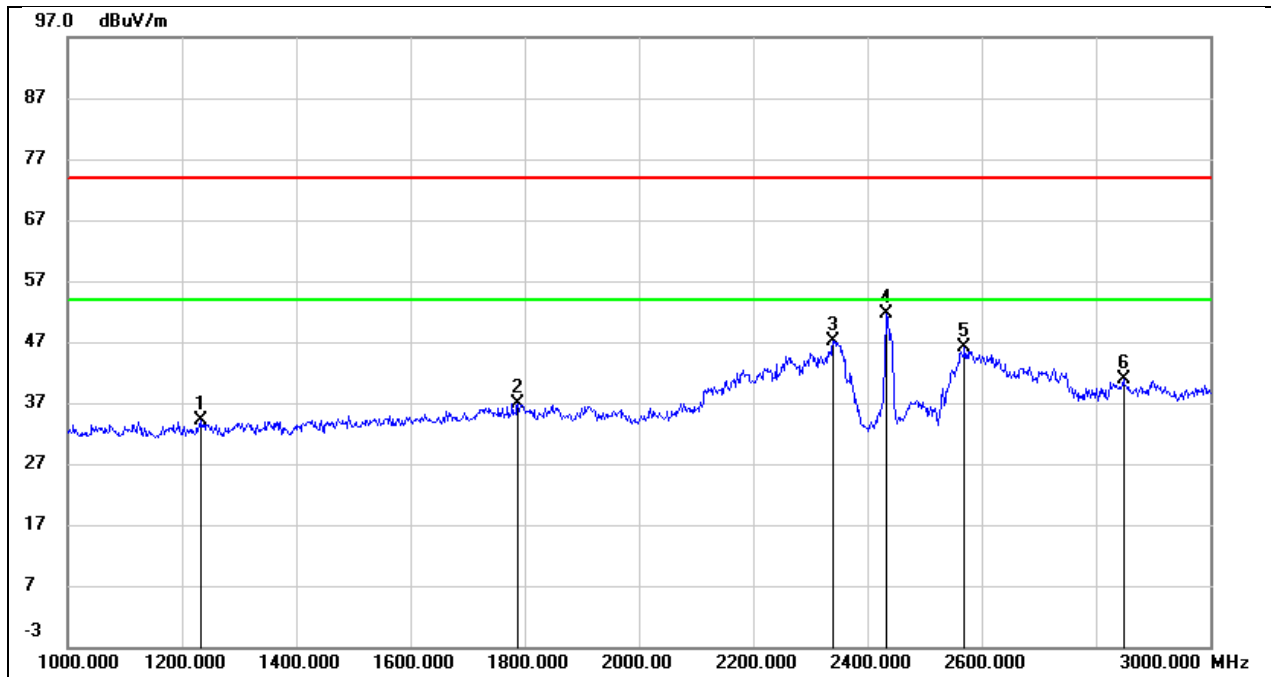
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1188.000	47.37	-12.89	34.48	74.00	-39.52	peak
2	1830.000	46.97	-9.32	37.65	74.00	-36.35	peak
3	2350.000	55.07	-7.91	47.16	74.00	-26.84	peak
4	2412.000	65.75	-7.69	58.06	\	\	fundamental
5	2564.000	54.05	-7.01	47.04	74.00	-26.96	peak
6	2978.000	44.83	-4.74	40.09	74.00	-33.91	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 3.7V



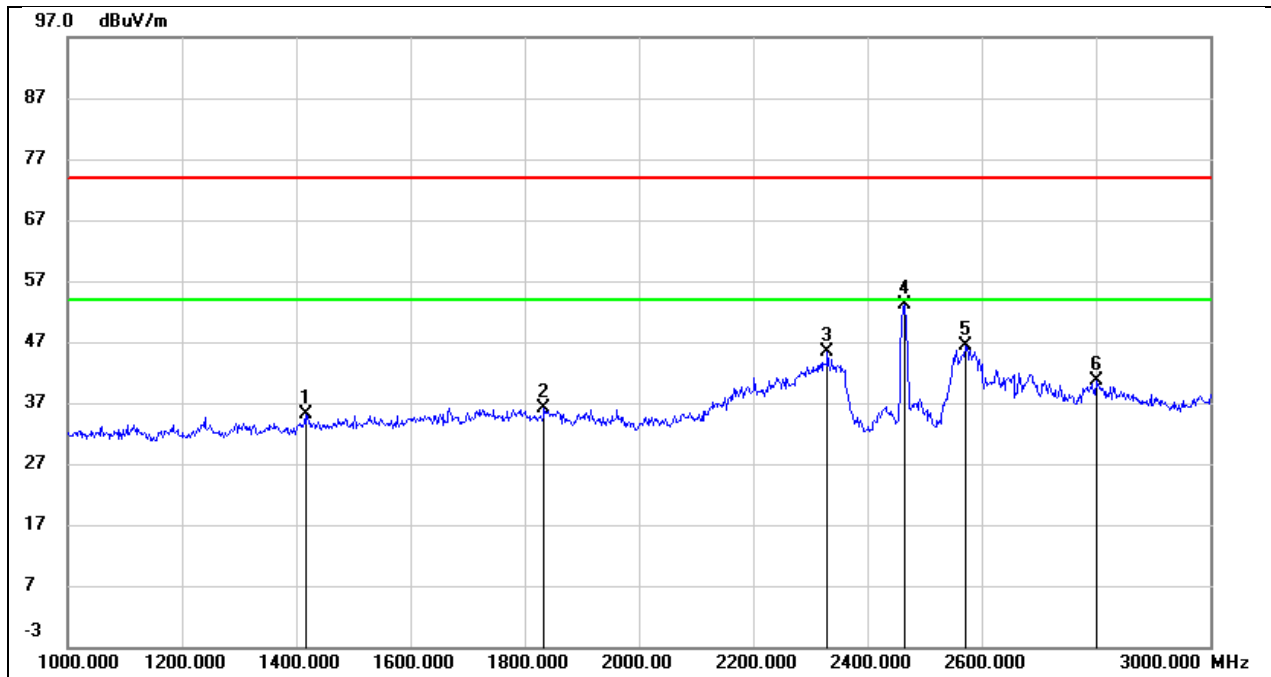
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1302.000	46.51	-12.81	33.70	74.00	-40.30	peak
2	1786.000	46.81	-10.02	36.79	74.00	-37.21	peak
3	2328.000	54.13	-8.82	45.31	74.00	-28.69	peak
4	2437.000	65.02	-8.39	56.63	\	\	fundamental
5	2572.000	55.19	-7.83	47.36	74.00	-26.64	peak
6	2916.000	44.82	-6.30	38.52	74.00	-35.48	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 3.7V



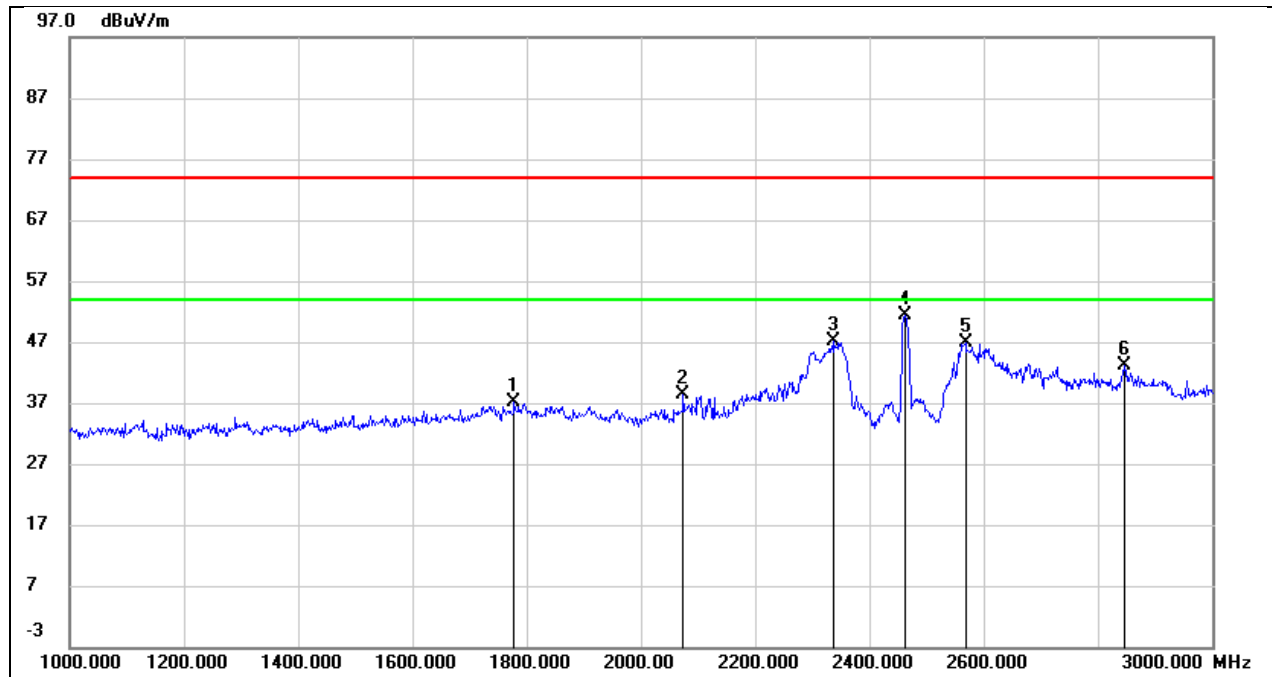
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1234.000	46.81	-12.73	34.08	74.00	-39.92	peak
2	1788.000	46.35	-9.45	36.90	74.00	-37.10	peak
3	2340.000	55.12	-7.95	47.17	74.00	-26.83	peak
4	2437.000	59.34	-7.61	51.73	\	\	fundamental
5	2570.000	52.98	-6.97	46.01	74.00	-27.99	peak
6	2848.000	46.25	-5.48	40.77	74.00	-33.23	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1416.000	47.34	-12.25	35.09	74.00	-38.91	peak
2	1834.000	46.18	-9.96	36.22	74.00	-37.78	peak
3	2330.000	54.16	-8.82	45.34	74.00	-28.66	peak
4	2462.000	61.54	-8.30	53.24	\	\	fundamental
5	2572.000	54.18	-7.83	46.35	74.00	-27.65	peak
6	2802.000	47.37	-6.83	40.54	74.00	-33.46	peak

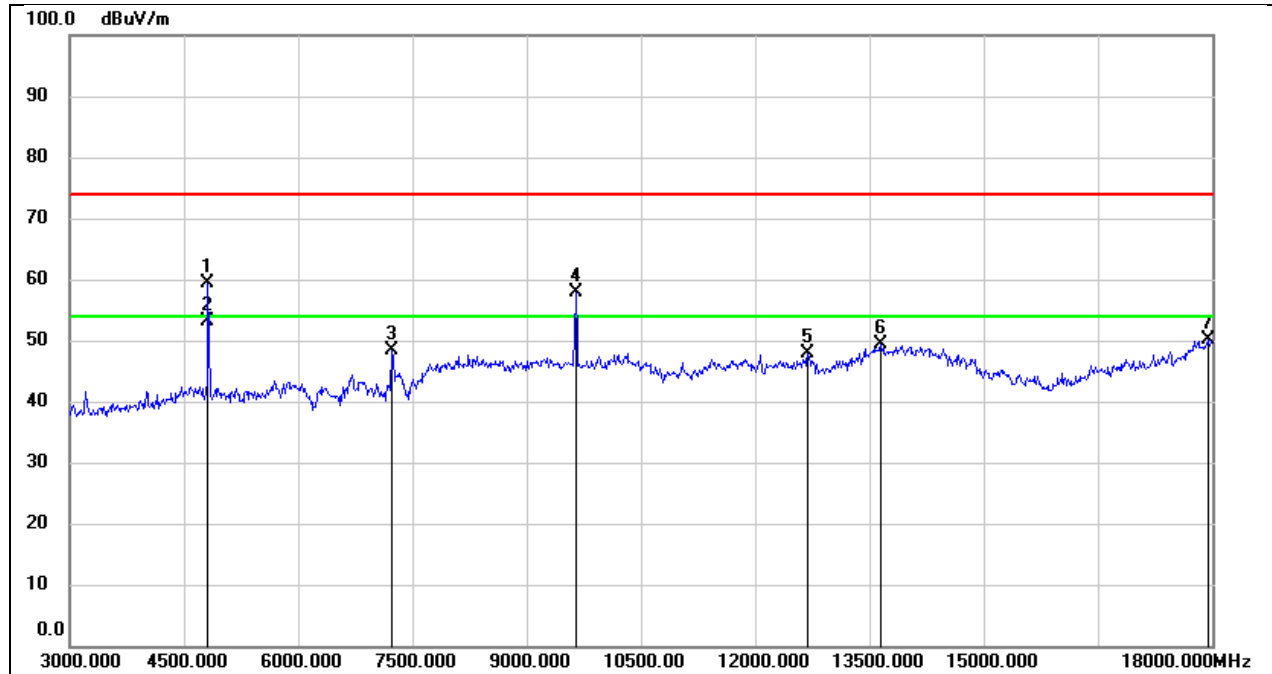
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1778.000	46.60	-9.52	37.08	74.00	-36.92	peak
2	2074.000	47.28	-8.93	38.35	74.00	-35.65	peak
3	2338.000	55.07	-7.95	47.12	74.00	-26.88	peak
4	2462.000	58.88	-7.50	51.38	\	\	fundamental
5	2568.000	53.76	-6.98	46.78	74.00	-27.22	peak
6	2846.000	48.70	-5.48	43.22	74.00	-30.78	peak

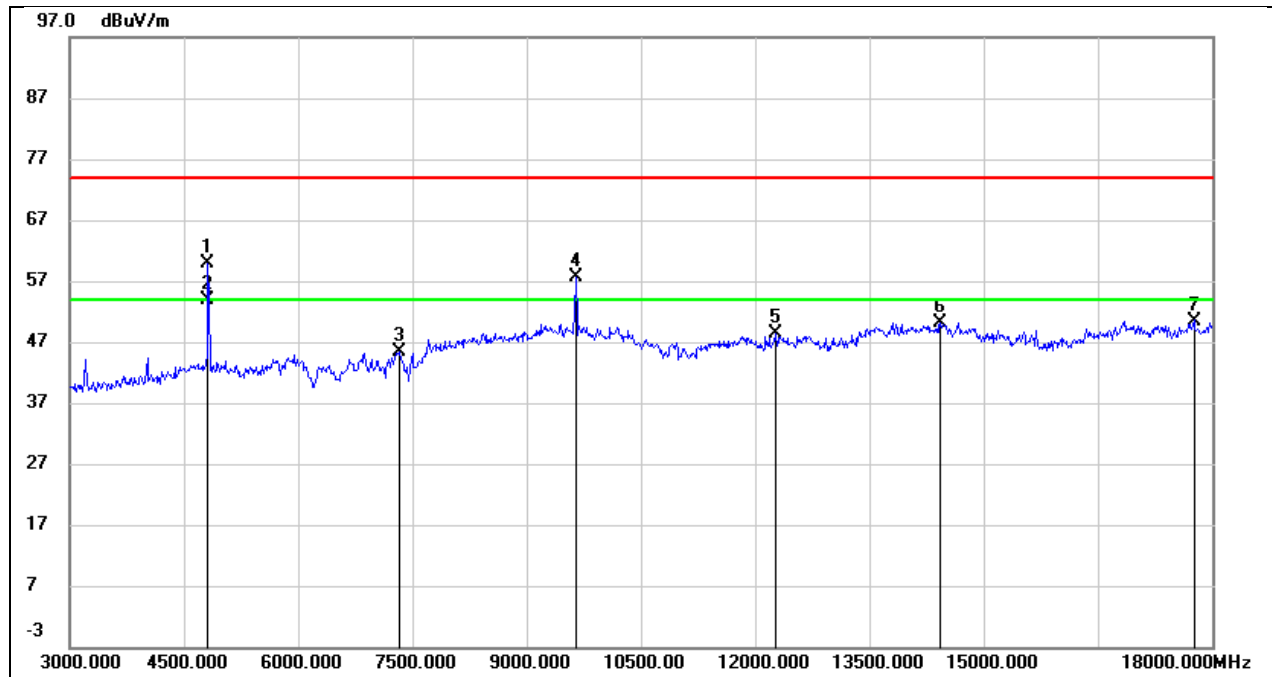
8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.7V



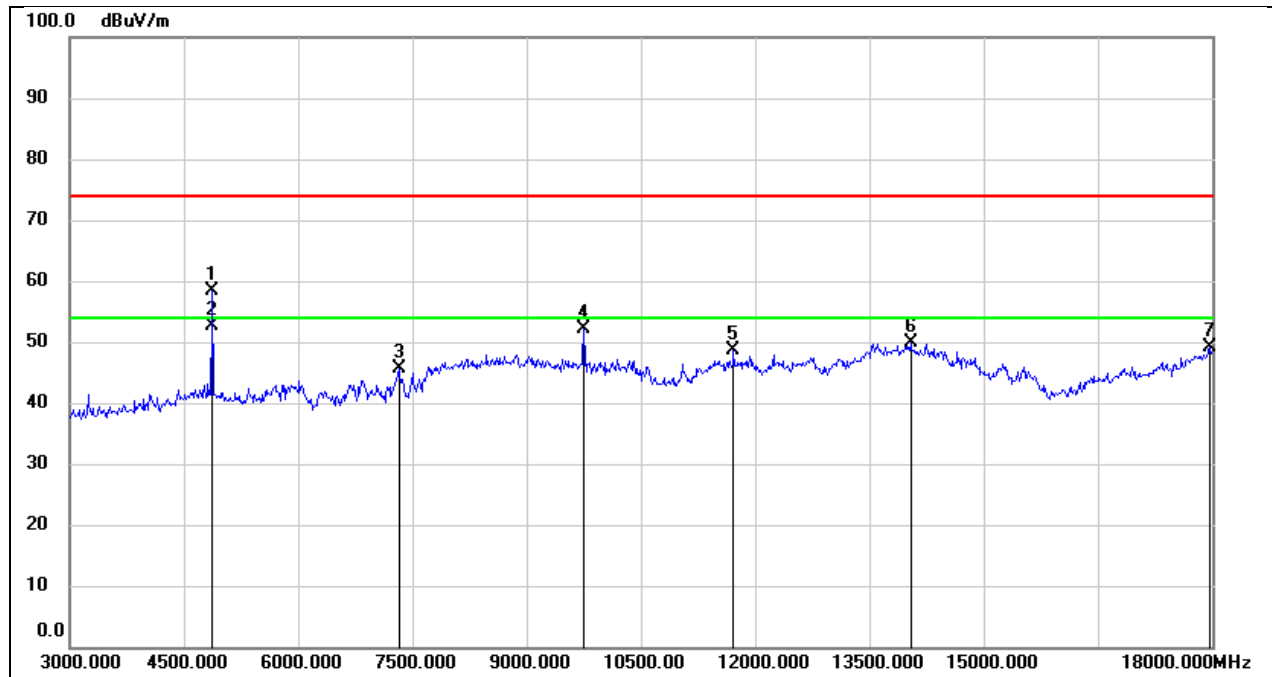
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	58.70	0.63	59.33	74.00	-14.67	peak
2	4815.000	52.61	0.63	53.24	54.00	-0.76	AVG
3	7230.000	41.46	7.01	48.47	74.00	-25.53	peak
4	9645.000	45.05	12.90	57.95	\	\	Not restricted
5	12690.000	28.59	19.20	47.79	74.00	-26.21	peak
6	13650.000	26.87	22.53	49.40	74.00	-24.60	peak
7	17940.000	21.32	28.83	50.15	74.00	-23.85	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.7V



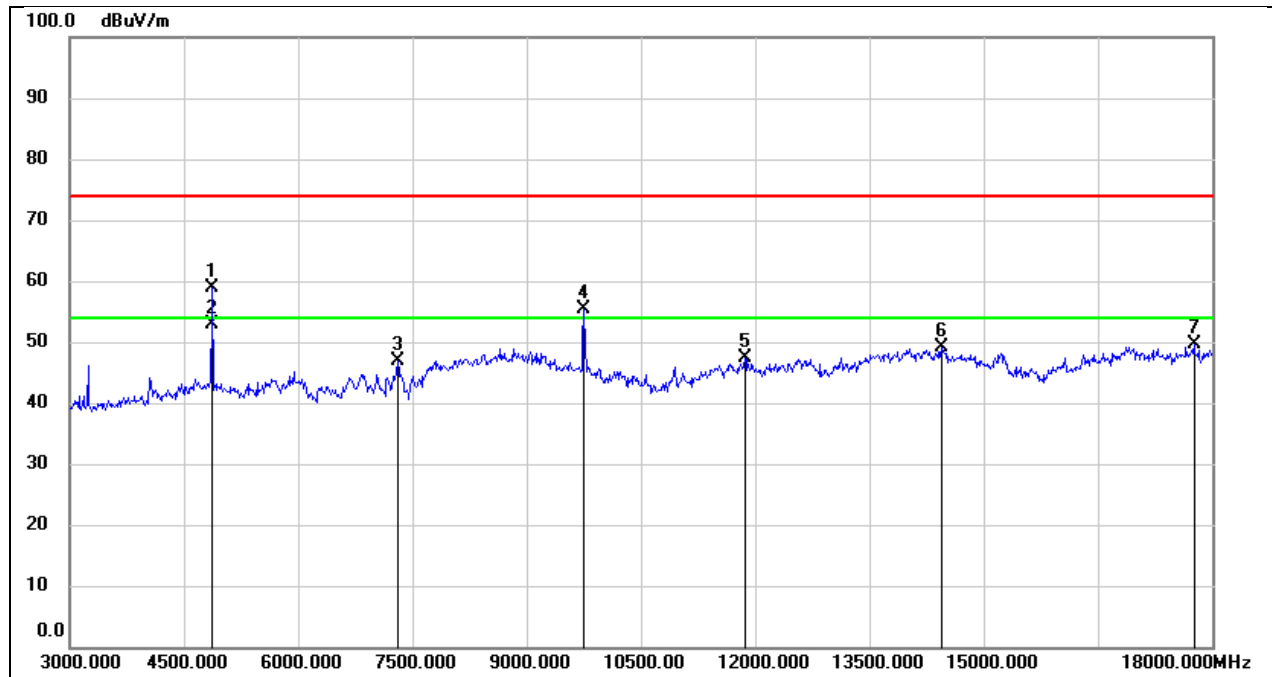
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	58.21	1.72	59.93	74.00	-14.07	peak
2	4815.000	52.09	1.72	53.81	54.00	-0.19	AVG
3	7320.000	37.55	7.76	45.31	74.00	-28.69	peak
4	9645.000	45.02	12.69	57.71	\	\	Not restricted
5	12270.000	30.46	17.93	48.39	74.00	-25.61	peak
6	14430.000	28.61	21.48	50.09	74.00	-23.91	peak
7	17760.000	24.54	25.96	50.50	74.00	-23.50	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 3.7V



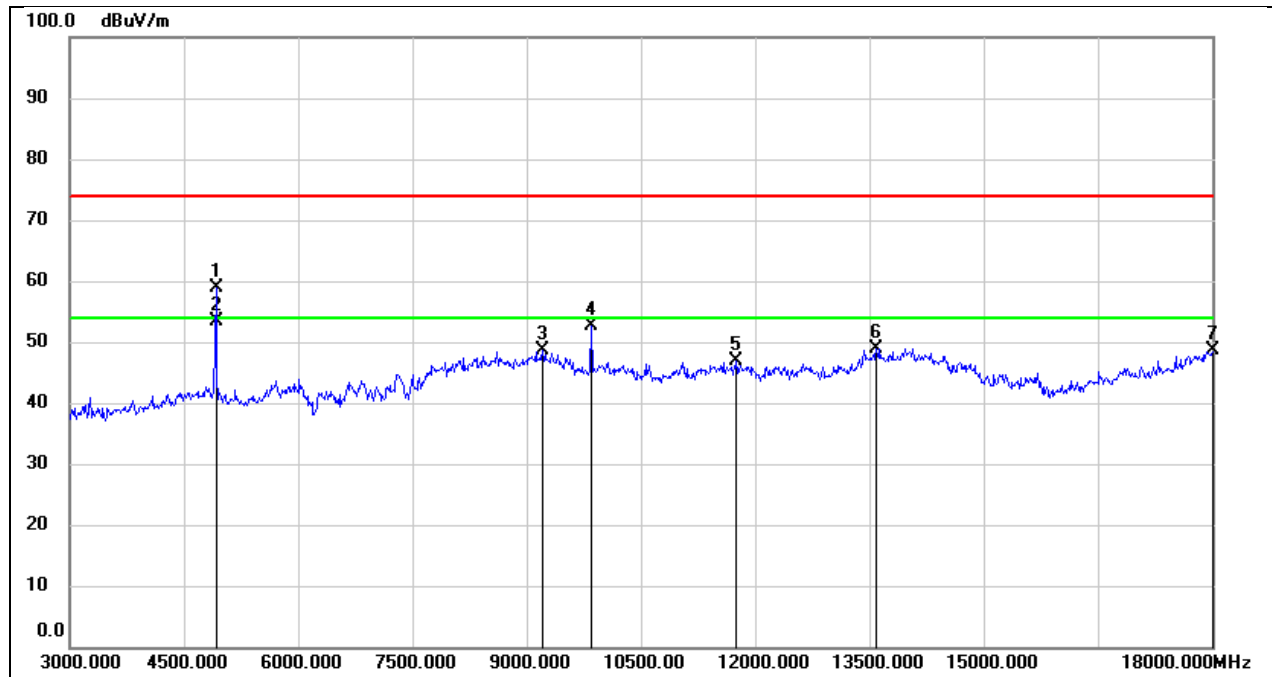
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	57.48	0.80	58.28	74.00	-15.72	peak
2	4875.000	51.78	0.80	52.58	54.00	-1.42	AVG
3	7320.000	38.43	7.12	45.55	74.00	-28.45	peak
4	9750.000	39.06	13.15	52.21	74.00	-21.79	peak
5	11715.000	30.26	18.46	48.72	74.00	-25.28	peak
6	14040.000	26.44	23.50	49.94	74.00	-24.06	peak
7	17970.000	20.04	29.13	49.17	74.00	-24.83	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 3.7V



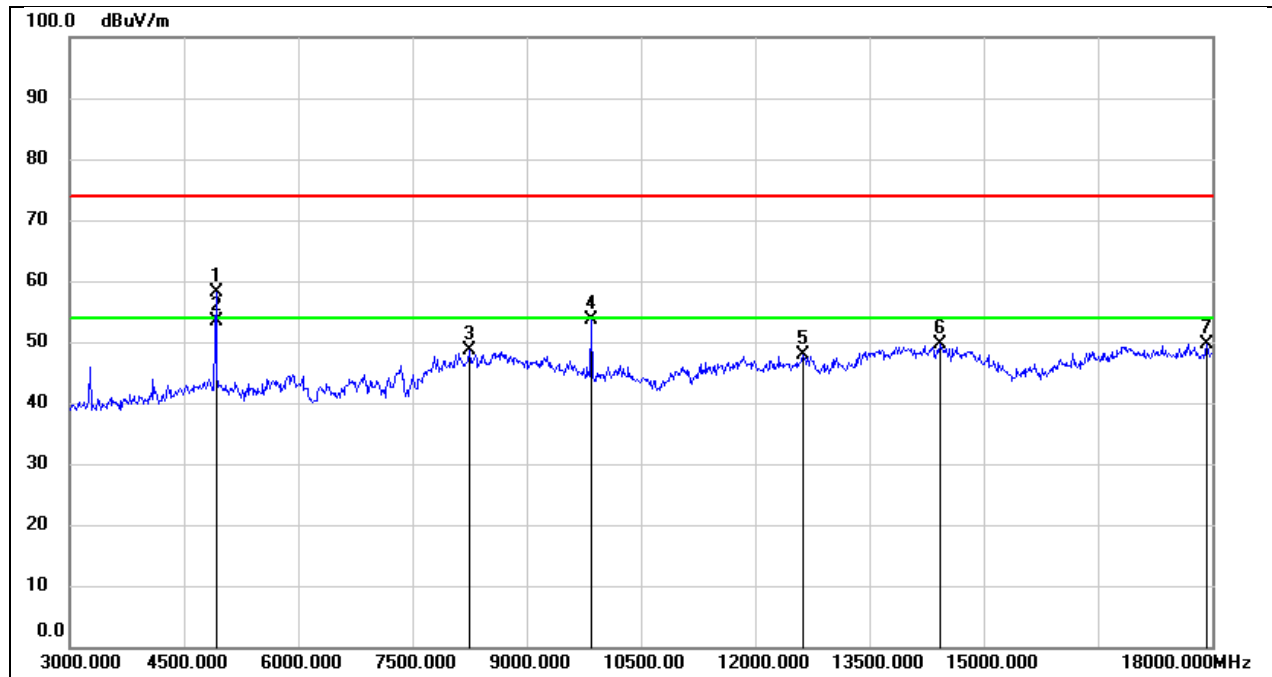
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	56.86	1.93	58.79	74.00	-15.21	peak
2	4875.000	51.03	1.93	52.96	54.00	-1.04	AVG
3	7305.000	39.10	7.75	46.85	74.00	-27.15	peak
4	9750.000	42.48	12.80	55.28	\	\	Not restricted
5	11865.000	29.95	17.52	47.47	74.00	-26.53	peak
6	14445.000	27.65	21.46	49.11	74.00	-24.89	peak
7	17760.000	23.62	25.96	49.58	74.00	-24.42	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.7V



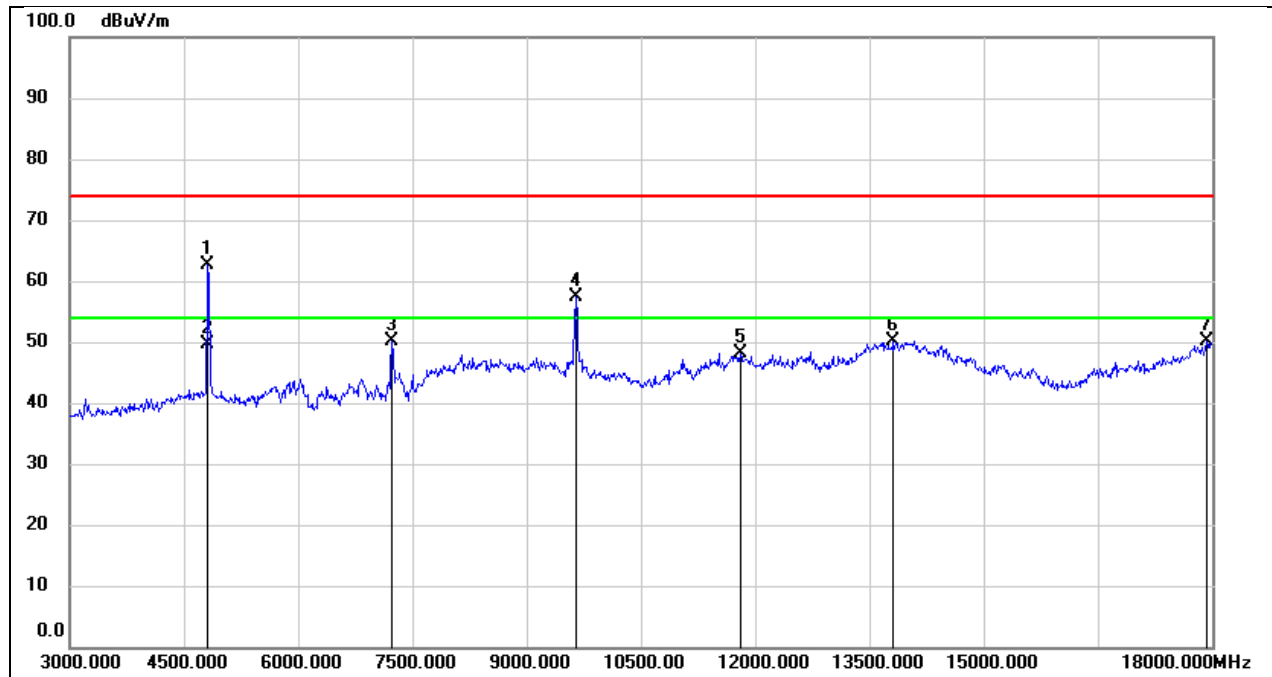
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	58.05	0.93	58.98	74.00	-15.02	peak
2	4920.000	52.47	0.93	53.40	54.00	-0.60	AVG
3	9210.000	37.59	11.05	48.64	74.00	-25.36	peak
4	9840.000	39.29	13.29	52.58	74.00	-21.42	peak
5	11745.000	28.31	18.53	46.84	74.00	-27.16	peak
6	13590.000	26.48	22.45	48.93	74.00	-25.07	peak
7	18000.000	19.16	29.44	48.60	74.00	-25.40	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.7V



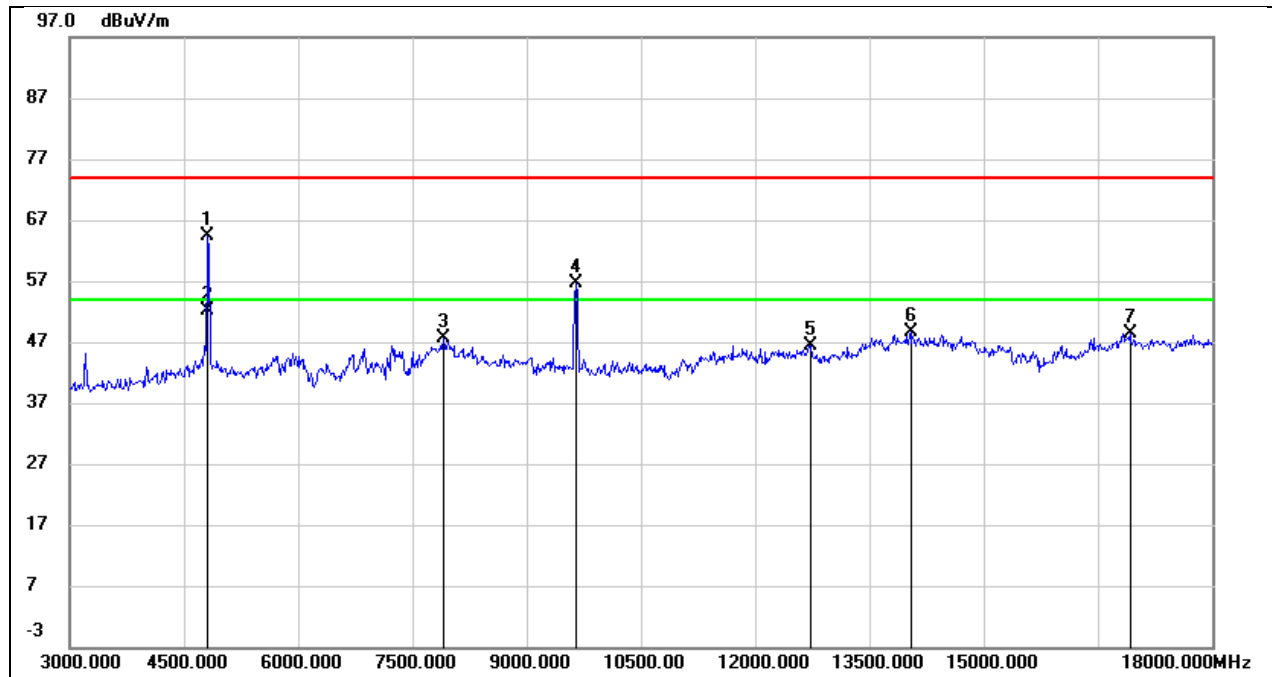
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	56.07	2.08	58.15	74.00	-15.85	peak
2	4920.000	51.42	2.08	53.50	54.00	-0.50	AVG
3	8250.000	39.56	9.15	48.71	74.00	-25.29	peak
4	9840.000	40.85	12.81	53.66	74.00	-20.34	peak
5	12630.000	29.71	18.08	47.79	74.00	-26.21	peak
6	14430.000	28.18	21.48	49.66	74.00	-24.34	peak
7	17925.000	22.92	26.80	49.72	74.00	-24.28	peak

Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.7V



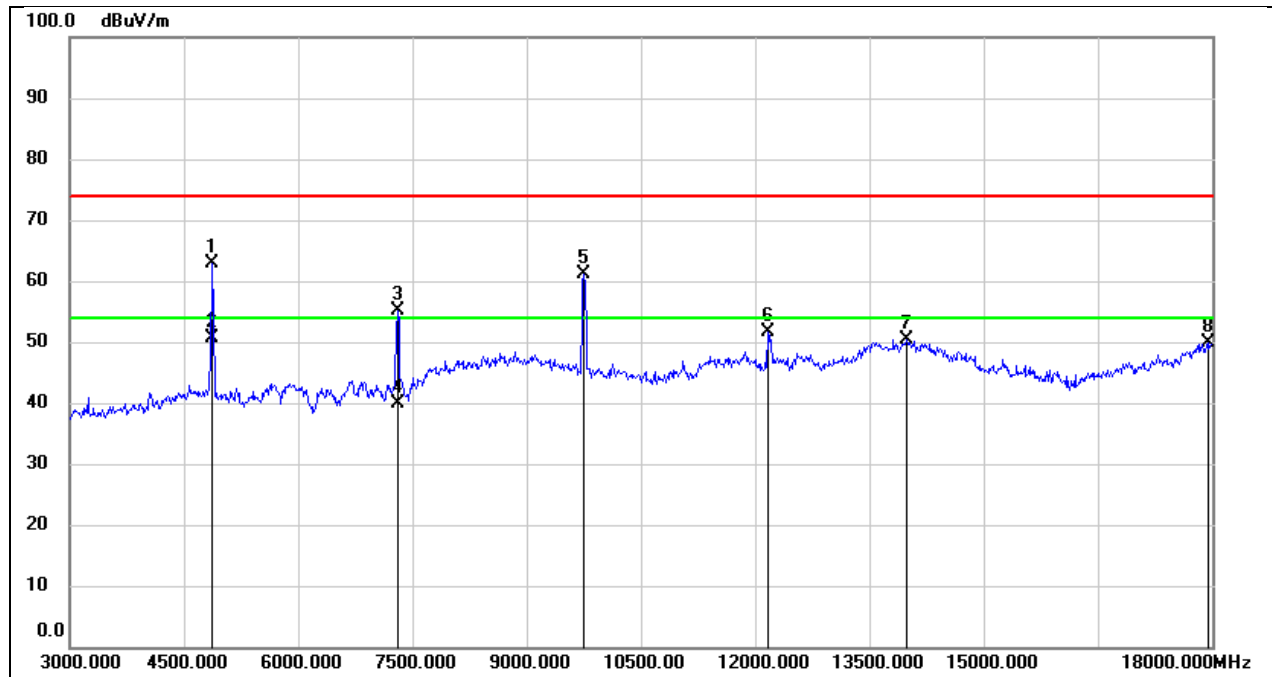
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	61.96	0.63	62.59	74.00	-11.41	peak
2	4815.000	48.91	0.63	49.54	54.00	-4.46	AVG
3	7230.000	43.08	7.01	50.09	74.00	-23.91	peak
4	9645.000	44.36	12.90	57.26	\	\	Not restricted
5	11805.000	29.49	18.64	48.13	74.00	-25.87	peak
6	13815.000	27.32	22.82	50.14	74.00	-23.86	peak
7	17925.000	21.42	28.67	50.09	74.00	-23.91	peak

Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.7V



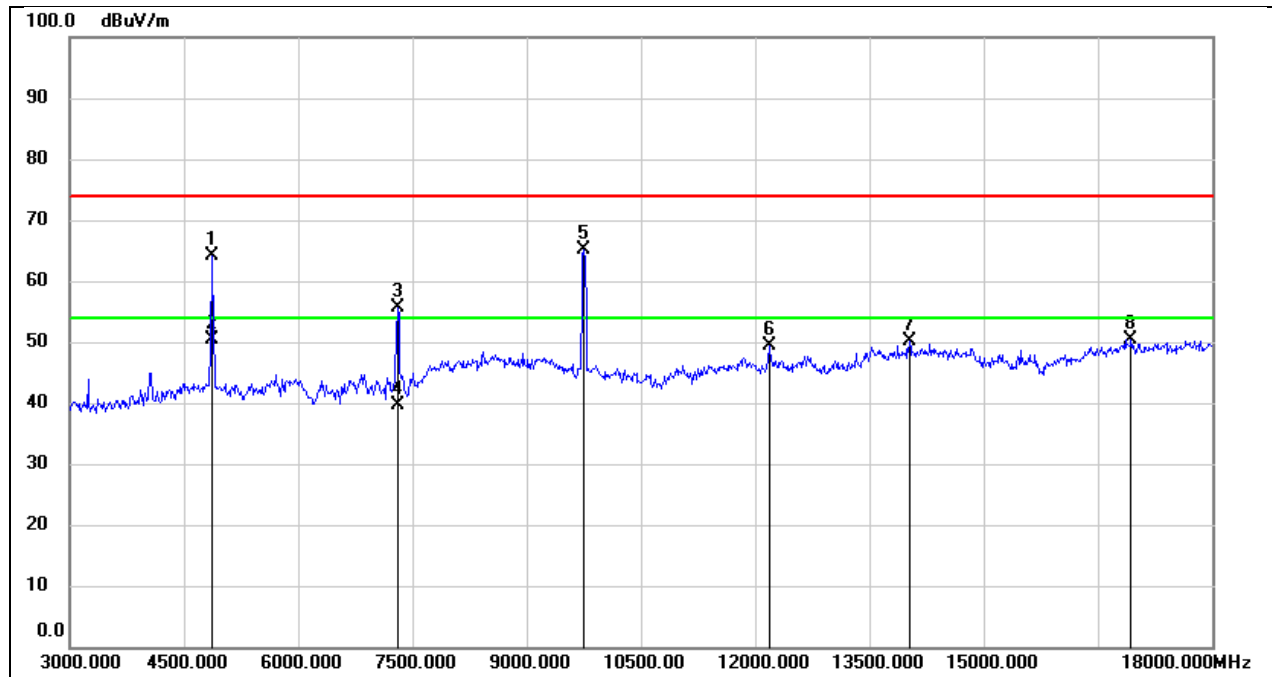
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	62.76	1.72	64.48	74.00	-9.52	peak
2	4815.000	50.35	1.72	52.07	54.00	-1.93	AVG
3	7905.000	39.30	8.39	47.69	74.00	-26.31	peak
4	9645.000	44.04	12.69	56.73	\	\	Not restricted
5	12735.000	28.15	18.27	46.42	74.00	-27.58	peak
6	14040.000	26.63	22.01	48.64	74.00	-25.36	peak
7	16920.000	23.55	24.89	48.44	74.00	-25.56	peak

Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 3.7V



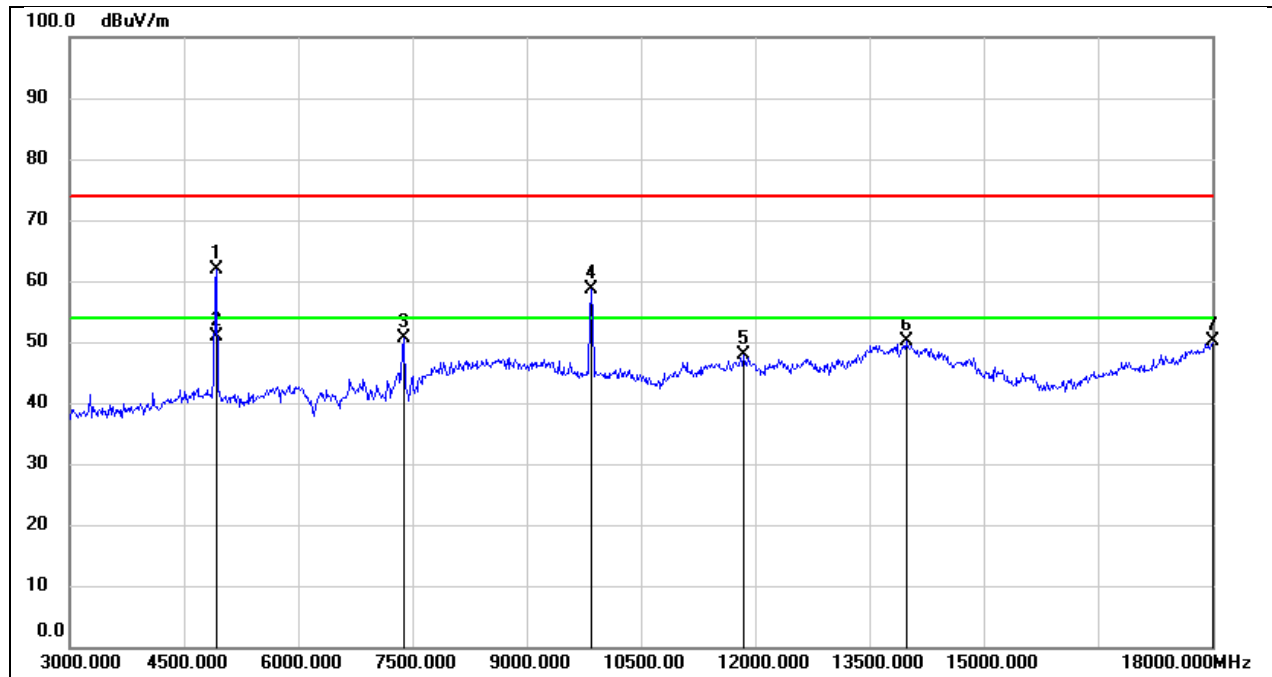
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	62.12	0.80	62.92	74.00	-11.08	peak
2	4875.000	49.71	0.80	50.51	54.00	-3.49	AVG
3	7305.000	47.99	7.10	55.09	74.00	-18.91	peak
4	7305.000	32.66	7.10	39.76	54.00	-14.24	AVG
5	9750.000	47.91	13.15	61.06	\	\	Not restricted
6	12165.000	32.70	18.88	51.58	74.00	-22.42	peak
7	13995.000	26.86	23.58	50.44	74.00	-23.56	peak
8	17940.000	20.98	28.83	49.81	74.00	-24.19	peak

Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 3.7V



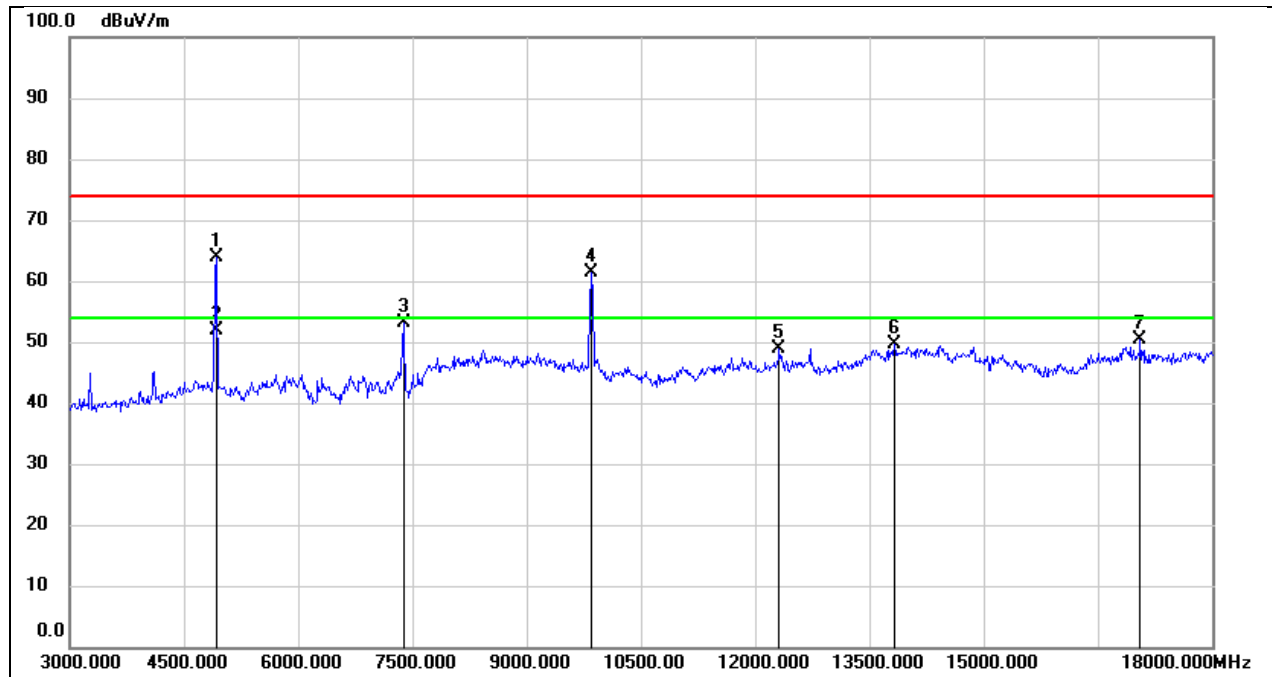
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	62.30	1.87	64.17	74.00	-9.83	peak
2	4860.000	48.52	1.87	50.39	54.00	-3.61	AVG
3	7305.000	47.96	7.75	55.71	74.00	-18.29	peak
4	7305.000	31.87	7.75	39.62	54.00	-14.38	AVG
5	9750.000	52.22	12.80	65.02	\	\	Not restricted
6	12180.000	31.43	17.85	49.28	74.00	-24.72	peak
7	14025.000	28.03	22.00	50.03	74.00	-23.97	peak
8	16935.000	25.47	24.91	50.38	74.00	-23.62	peak

Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.7V



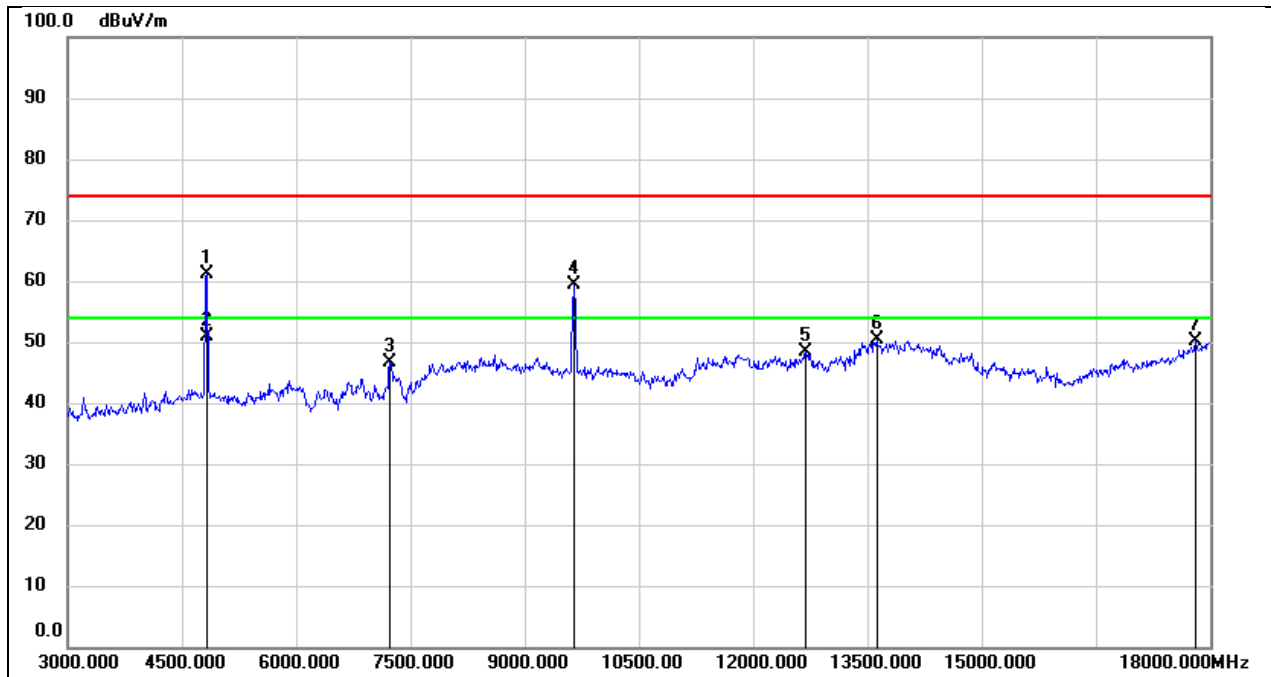
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	60.83	0.93	61.76	74.00	-12.24	peak
2	4920.000	49.83	0.93	50.76	54.00	-3.24	AVG
3	7395.000	43.48	7.21	50.69	74.00	-23.31	peak
4	9855.000	45.36	13.29	58.65	\	\	Not restricted
5	11850.000	29.12	18.70	47.82	74.00	-26.18	peak
6	13980.000	26.58	23.51	50.09	74.00	-23.91	peak
7	18000.000	20.66	29.44	50.10	74.00	-23.90	peak

Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.7V



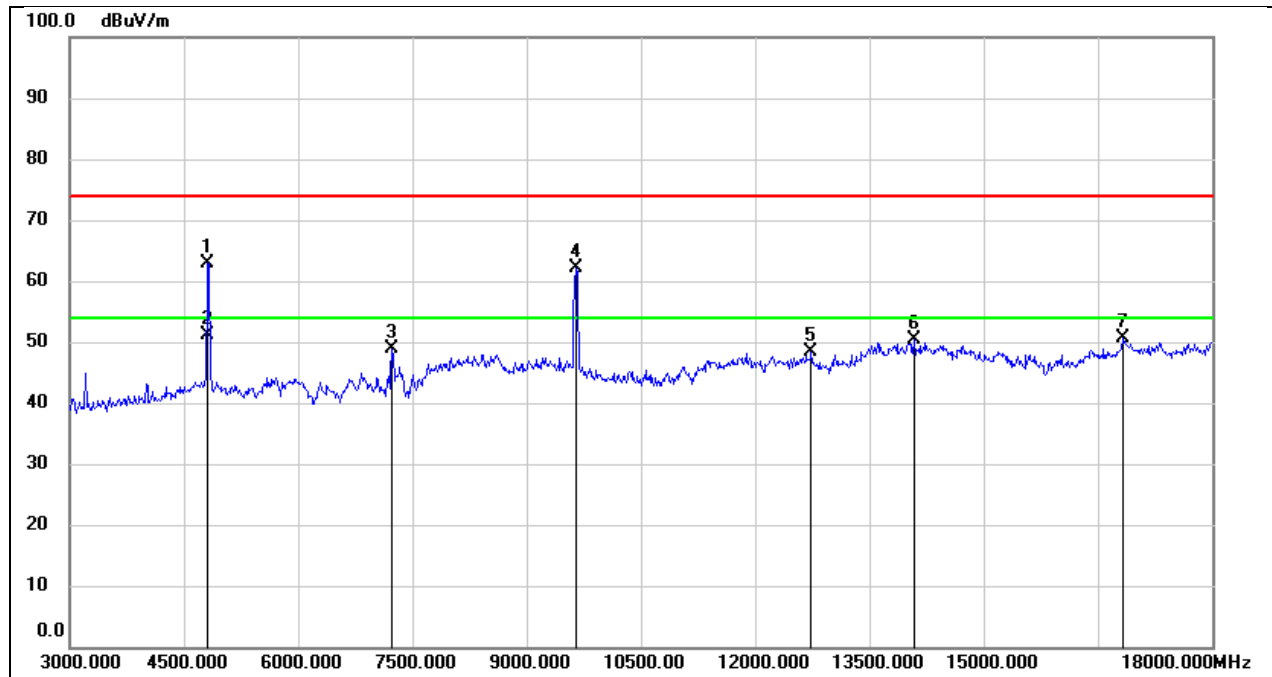
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	61.75	2.08	63.83	74.00	-10.17	peak
2	4920.000	49.74	2.08	51.82	54.00	-2.18	AVG
3	7380.000	45.29	7.79	53.08	74.00	-20.92	peak
4	9855.000	48.53	12.80	61.33	\	\	Not restricted
5	12315.000	31.00	18.00	49.00	74.00	-25.00	peak
6	13830.000	28.27	21.25	49.52	74.00	-24.48	peak
7	17055.000	25.31	25.01	50.32	74.00	-23.68	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.7V



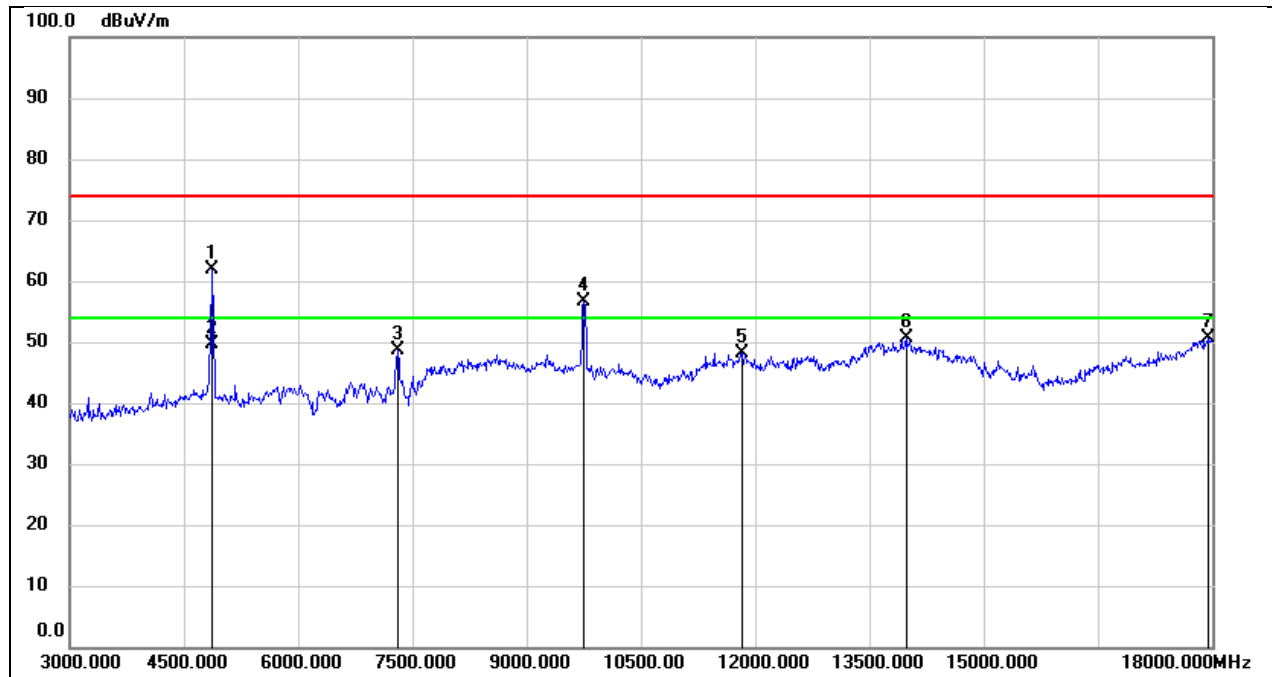
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.000	60.39	0.67	61.06	74.00	-12.94	peak
2	4830.000	50.32	0.67	50.99	54.00	-3.01	AVG
3	7230.000	39.54	7.01	46.55	74.00	-27.45	peak
4	9645.000	46.40	12.90	59.30	\	\	Not restricted
5	12690.000	29.07	19.20	48.27	74.00	-25.73	peak
6	13620.000	27.83	22.49	50.32	74.00	-23.68	peak
7	17805.000	22.63	27.45	50.08	74.00	-23.92	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.7V



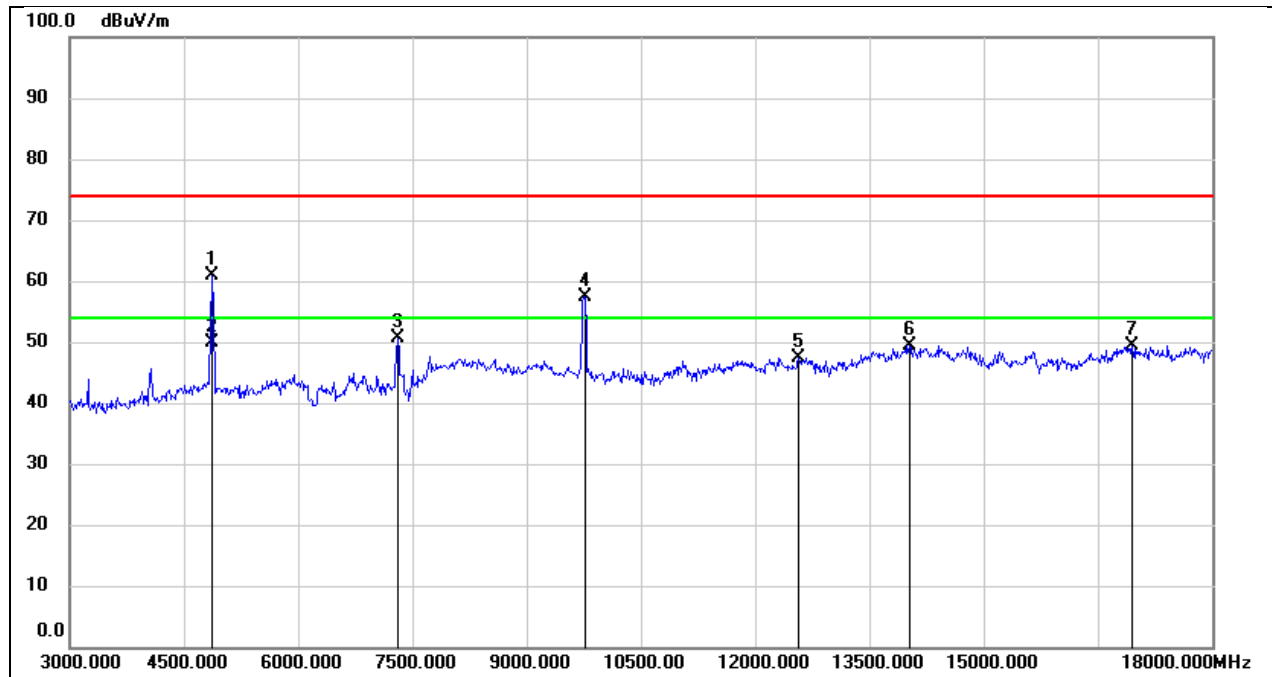
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	61.18	1.72	62.90	74.00	-11.10	peak
2	4815.000	49.47	1.72	51.19	54.00	-2.81	AVG
3	7230.000	41.05	7.73	48.78	74.00	-25.22	peak
4	9645.000	49.47	12.69	62.16	\	\	Not restricted
5	12735.000	30.13	18.27	48.40	74.00	-25.60	peak
6	14085.000	28.46	22.03	50.49	74.00	-23.51	peak
7	16830.000	25.76	24.80	50.56	74.00	-23.44	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 3.7V



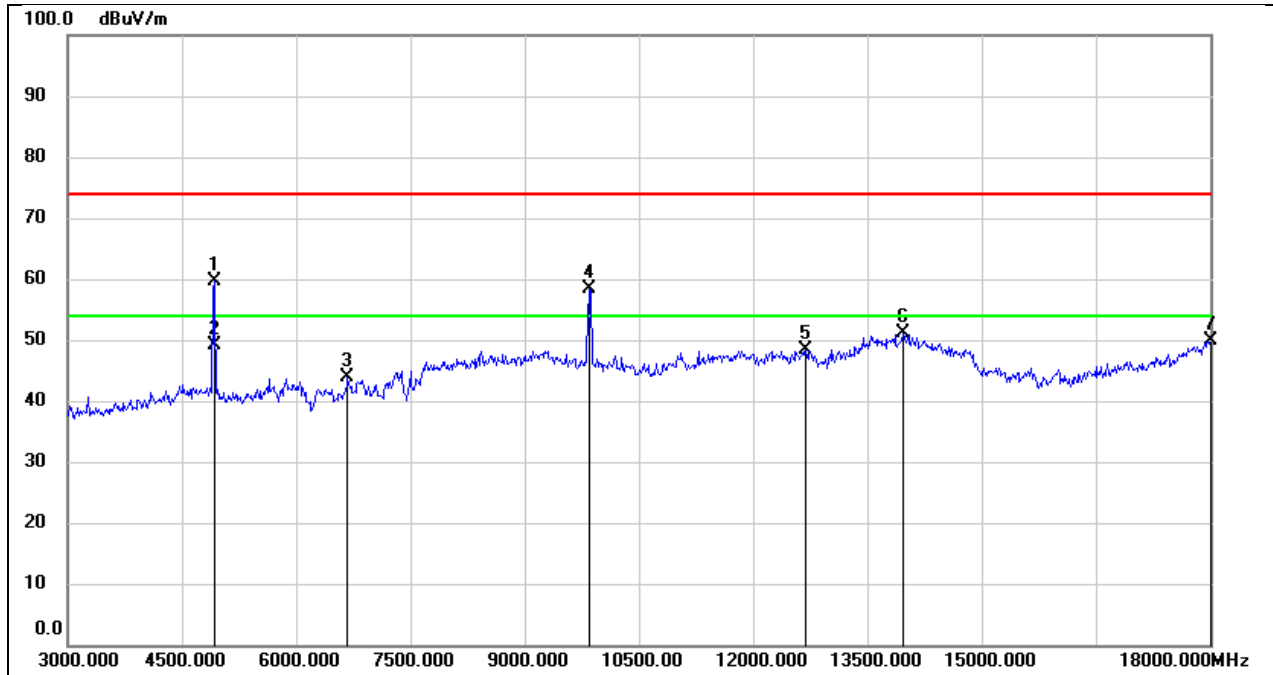
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	61.17	0.80	61.97	74.00	-12.03	peak
2	4875.000	48.71	0.80	49.51	54.00	-4.49	AVG
3	7305.000	41.44	7.10	48.54	74.00	-25.46	peak
4	9750.000	43.48	13.15	56.63	\	\	Not restricted
5	11835.000	29.48	18.69	48.17	74.00	-25.83	peak
6	13980.000	27.20	23.51	50.71	74.00	-23.29	peak
7	17940.000	21.75	28.83	50.58	74.00	-23.42	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 3.7V



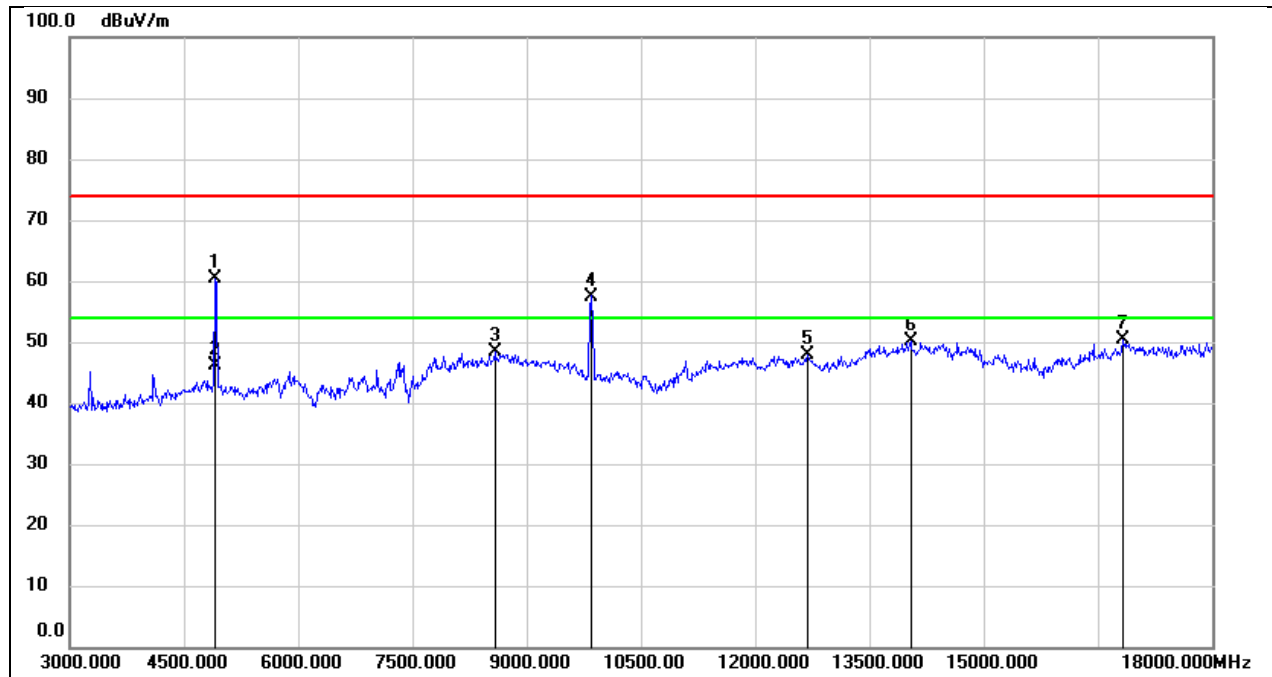
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	58.99	1.93	60.92	74.00	-13.08	peak
2	4875.000	47.99	1.93	49.92	54.00	-4.08	AVG
3	7305.000	42.95	7.75	50.70	74.00	-23.30	peak
4	9765.000	44.55	12.81	57.36	\	\	Not restricted
5	12570.000	29.41	18.03	47.44	74.00	-26.56	peak
6	14025.000	27.40	22.00	49.40	74.00	-24.60	peak
7	16950.000	24.52	24.93	49.45	74.00	-24.55	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	58.62	0.93	59.55	74.00	-14.45	peak
2	4920.000	48.30	0.93	49.23	54.00	-4.77	AVG
3	6675.000	38.36	5.47	43.83	74.00	-30.17	peak
4	9855.000	45.10	13.29	58.39	\	\	Not restricted
5	12690.000	29.25	19.20	48.45	74.00	-25.55	peak
6	13965.000	27.56	23.46	51.02	74.00	-22.98	peak
7	18000.000	20.36	29.44	49.80	74.00	-24.20	peak

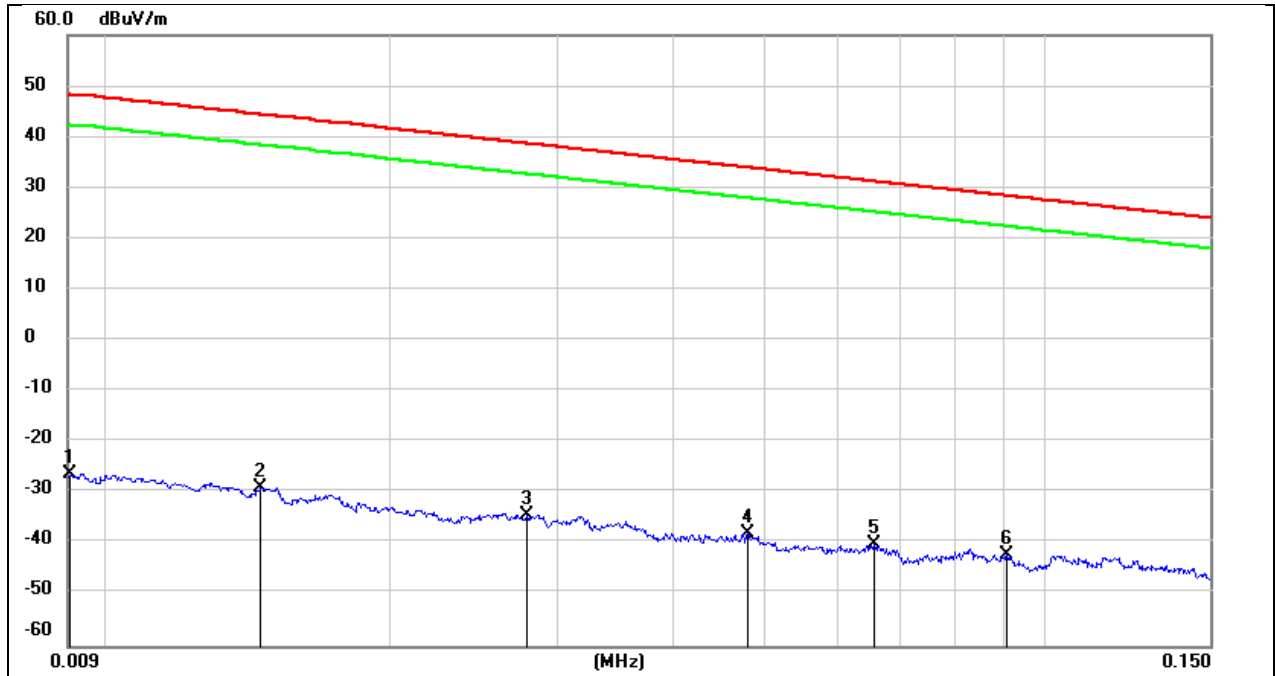
Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4905.000	58.43	2.02	60.45	74.00	-13.55	peak
2	4905.000	44.23	2.02	46.25	54.00	-7.75	AVG
3	8580.000	38.66	9.76	48.42	74.00	-25.58	peak
4	9840.000	44.69	12.81	57.50	\	\	Not restricted
5	12690.000	29.67	18.18	47.85	74.00	-26.15	peak
6	14040.000	28.00	22.01	50.01	74.00	-23.99	peak
7	16830.000	25.65	24.80	50.45	74.00	-23.55	peak

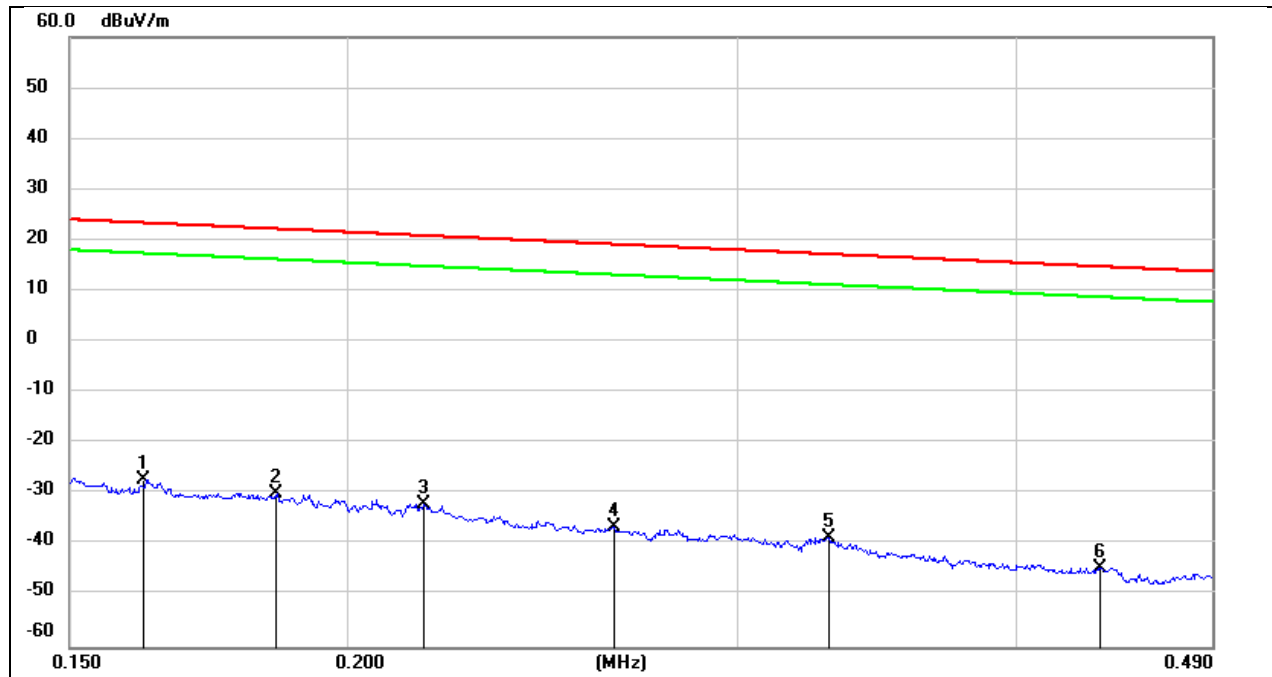
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.7V



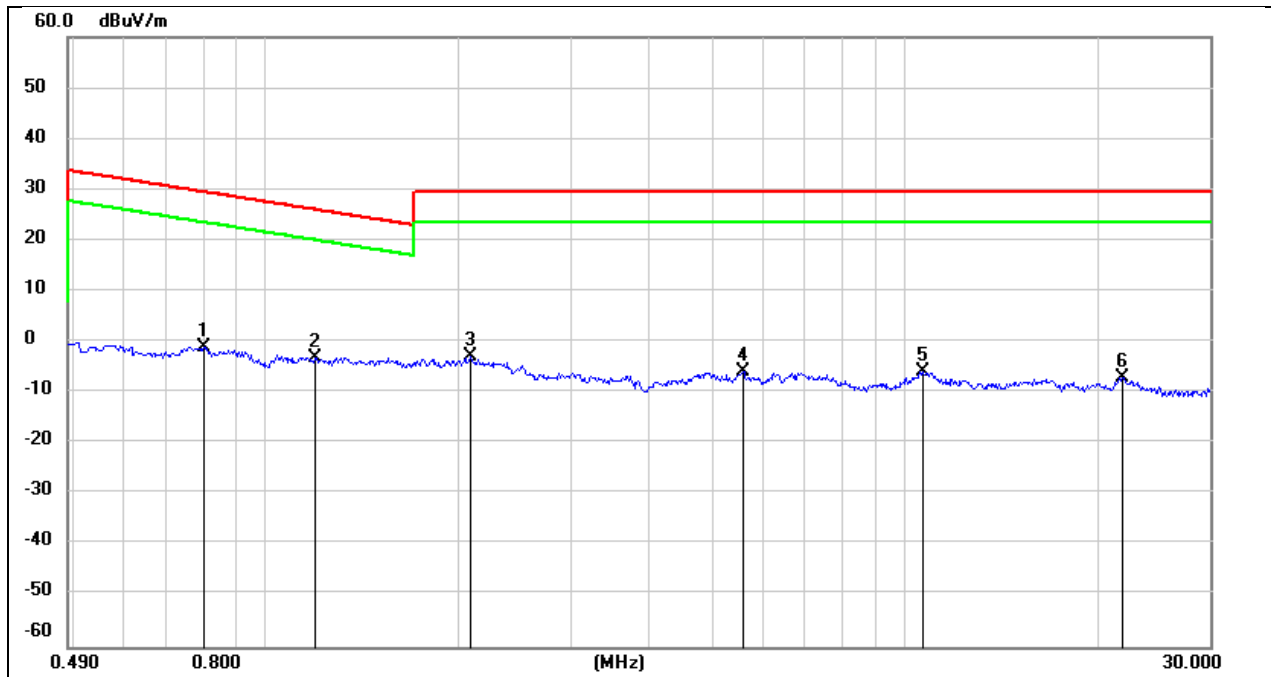
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0091	75.08	-101.33	-26.25	48.28	-74.53	peak
2	0.0145	72.55	-101.38	-28.83	44.37	-73.20	peak
3	0.0279	67.17	-101.38	-34.21	38.69	-72.90	peak
4	0.0480	63.49	-101.47	-37.98	33.97	-71.95	peak
5	0.0656	61.36	-101.55	-40.19	31.26	-71.45	peak
6	0.0911	59.61	-101.72	-42.11	28.41	-70.52	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1621	74.42	-101.65	-27.23	23.41	-50.64	peak
2	0.1859	71.78	-101.70	-29.92	22.22	-52.14	peak
3	0.2164	69.77	-101.75	-31.98	20.90	-52.88	peak
4	0.2639	65.45	-101.82	-36.37	19.17	-55.54	peak
5	0.3300	63.47	-101.88	-38.41	17.23	-55.64	peak
6	0.4364	57.36	-101.99	-44.63	14.80	-59.43	peak

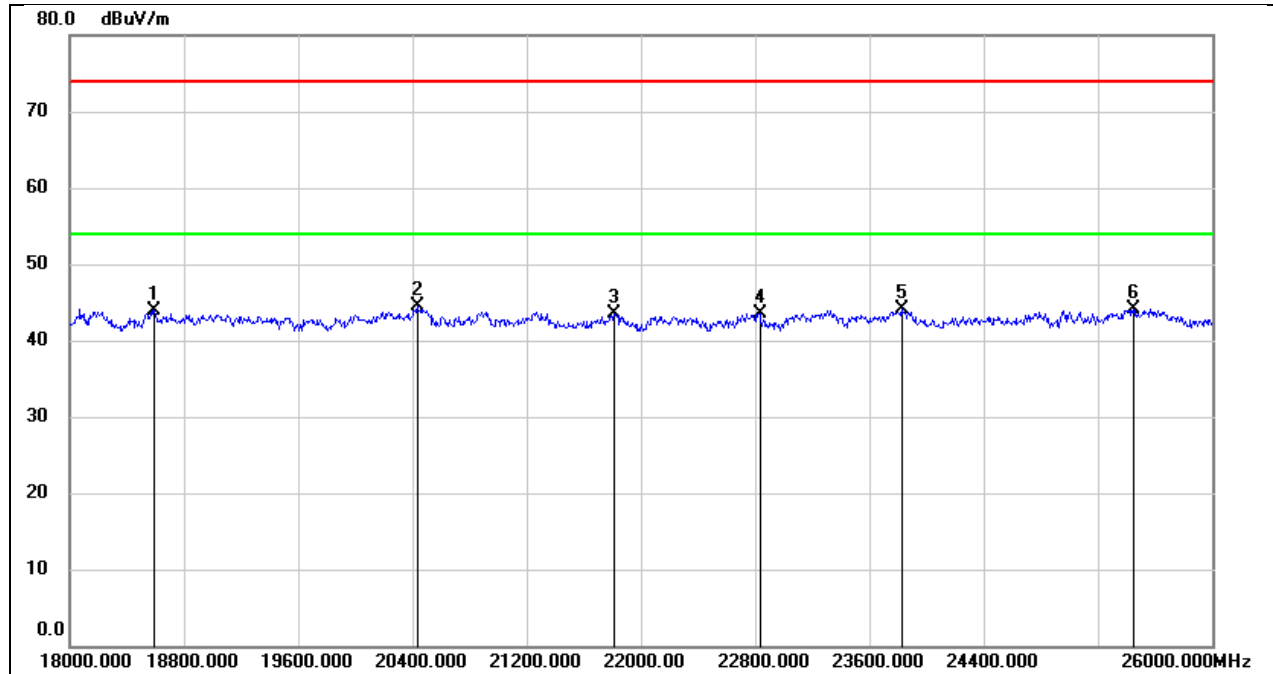
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.7993	61.22	-62.15	-0.93	29.55	-30.48	peak
2	1.1915	59.07	-62.18	-3.11	26.08	-29.19	peak
3	2.0939	58.89	-61.79	-2.90	29.54	-32.44	peak
4	5.5952	55.55	-61.41	-5.86	29.54	-35.40	peak
5	10.6707	55.11	-60.83	-5.72	29.54	-35.26	peak
6	21.9143	53.72	-60.69	-6.97	29.54	-36.51	peak

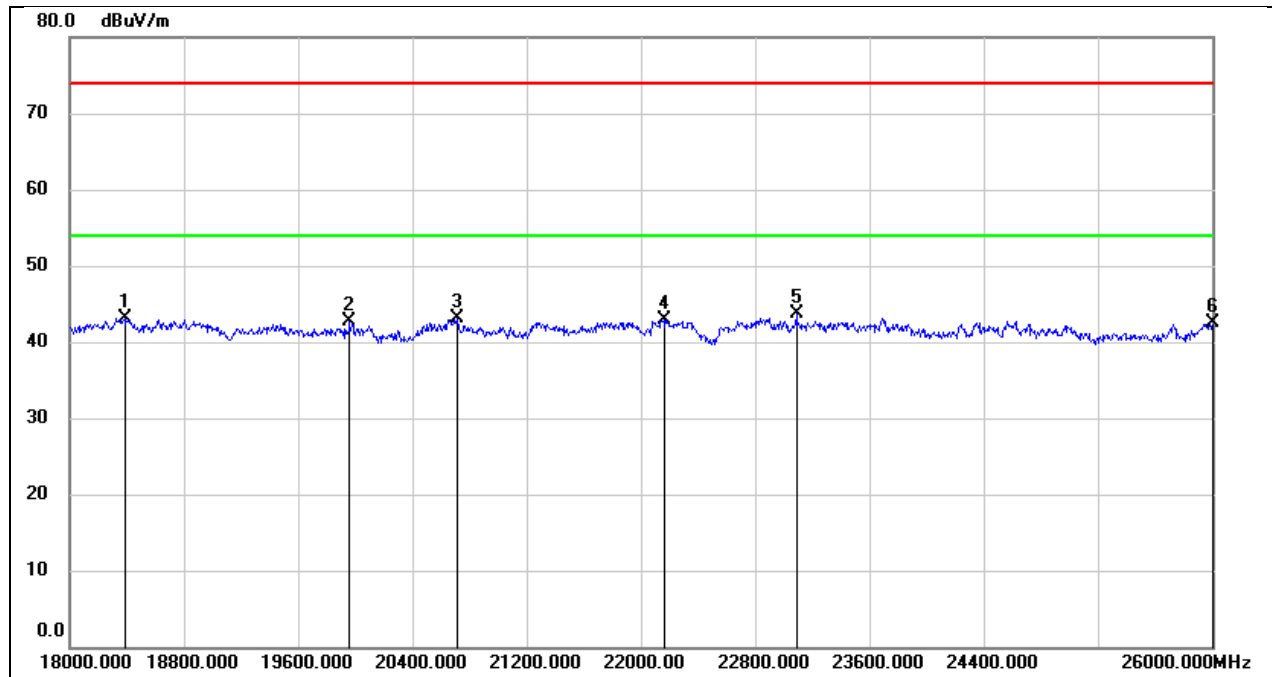
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18592.000	49.25	-5.31	43.94	74.00	-30.06	peak
2	20432.000	49.99	-5.42	44.57	74.00	-29.43	peak
3	21808.000	47.91	-4.36	43.55	74.00	-30.45	peak
4	22832.000	47.09	-3.60	43.49	74.00	-30.51	peak
5	23824.000	47.07	-3.06	44.01	74.00	-29.99	peak
6	25448.000	45.83	-1.76	44.07	74.00	-29.93	peak

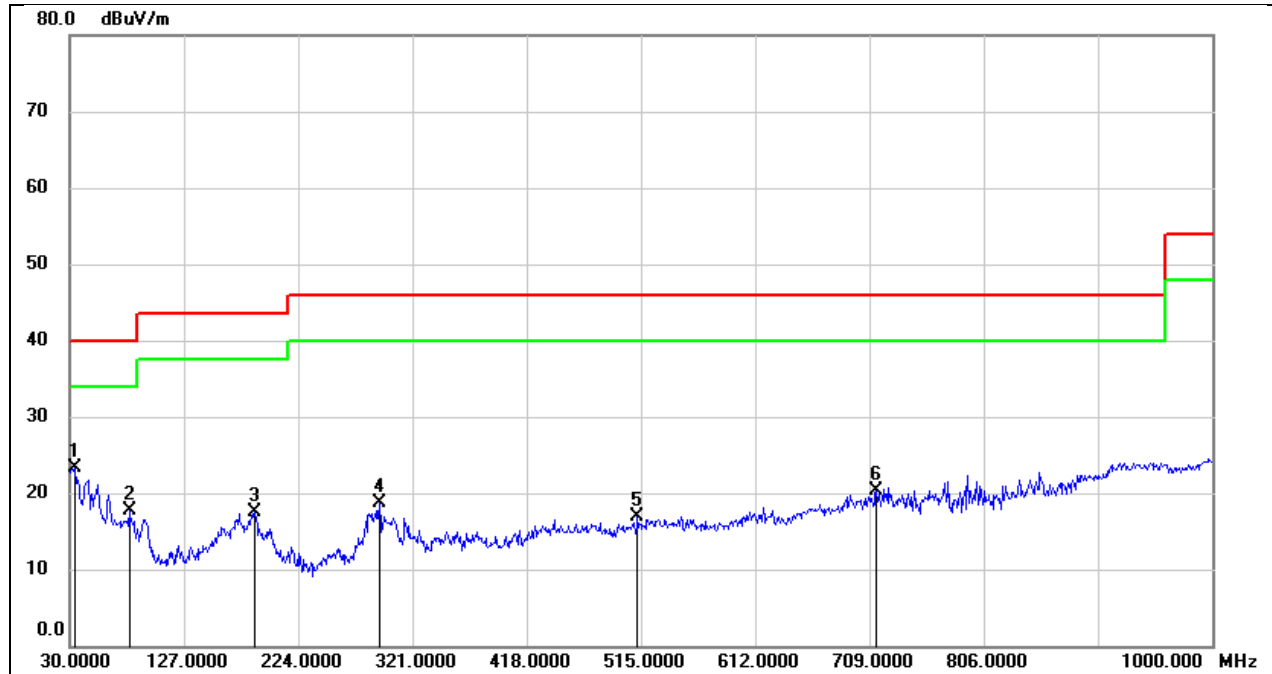
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18384.000	48.44	-5.39	43.05	74.00	-30.95	peak
2	19960.000	48.06	-5.42	42.64	74.00	-31.36	peak
3	20712.000	48.21	-5.16	43.05	74.00	-30.95	peak
4	22160.000	47.16	-4.31	42.85	74.00	-31.15	peak
5	23088.000	47.02	-3.41	43.61	74.00	-30.39	peak
6	26000.000	43.50	-1.06	42.44	74.00	-31.56	peak

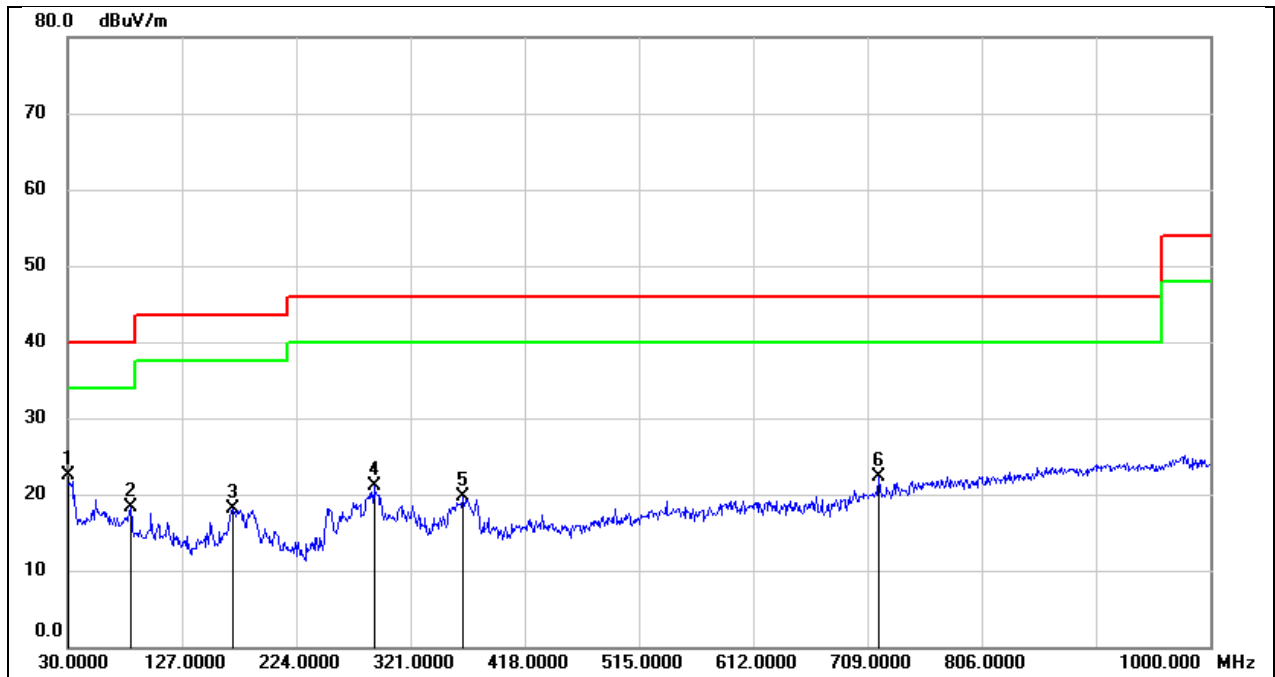
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34.8500	37.47	-14.14	23.33	40.00	-16.67	QP
2	80.4400	34.07	-16.35	17.72	40.00	-22.28	QP
3	187.1400	29.70	-12.13	17.57	43.50	-25.93	QP
4	292.8700	30.84	-12.14	18.70	46.00	-27.30	QP
5	512.0900	24.48	-7.58	16.90	46.00	-29.10	QP
6	714.8200	24.53	-4.25	20.28	46.00	-25.72	QP

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	35.81	-13.34	22.47	40.00	-17.53	QP
2	83.3500	34.92	-16.65	18.27	40.00	-21.73	QP
3	169.6799	30.30	-12.26	18.04	43.50	-25.46	QP
4	289.9600	33.45	-12.31	21.14	46.00	-24.86	QP
5	365.6200	29.36	-9.62	19.74	46.00	-26.26	QP
6	718.7000	26.53	-4.18	22.35	46.00	-23.65	QP

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.

Please refer to FCC part 15.247(b)(4)

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.

DESCRIPTION

Pass

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a).

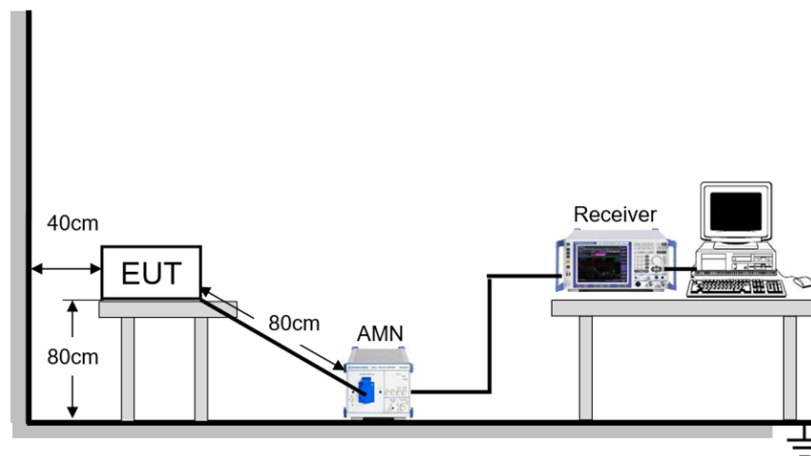
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

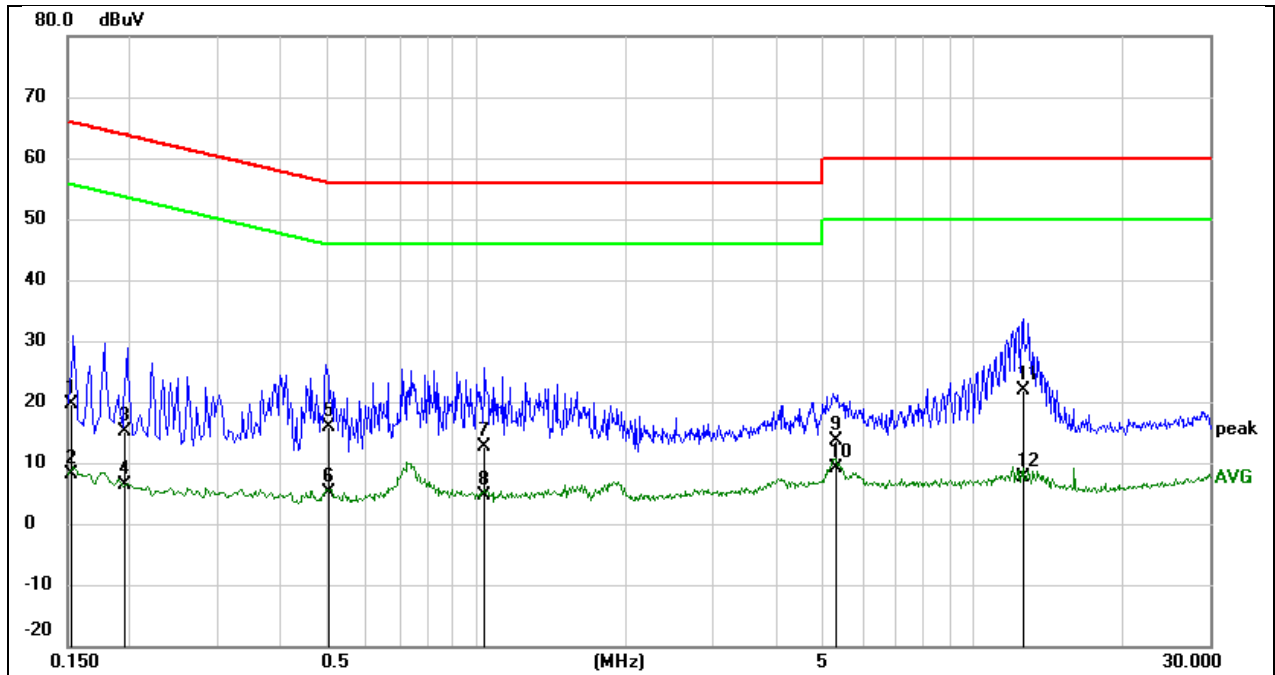
Temperature	23°C	Relative Humidity	52%
Atmosphere Pressure	101kPa	Test Voltage	

TEST DATE / ENGINEER

Test Date	November 21, 2024	Test By	James Qin
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TEST RESULTS

Test Mode:	802.11b	Frequency(MHz):	2412
Line:	Line		



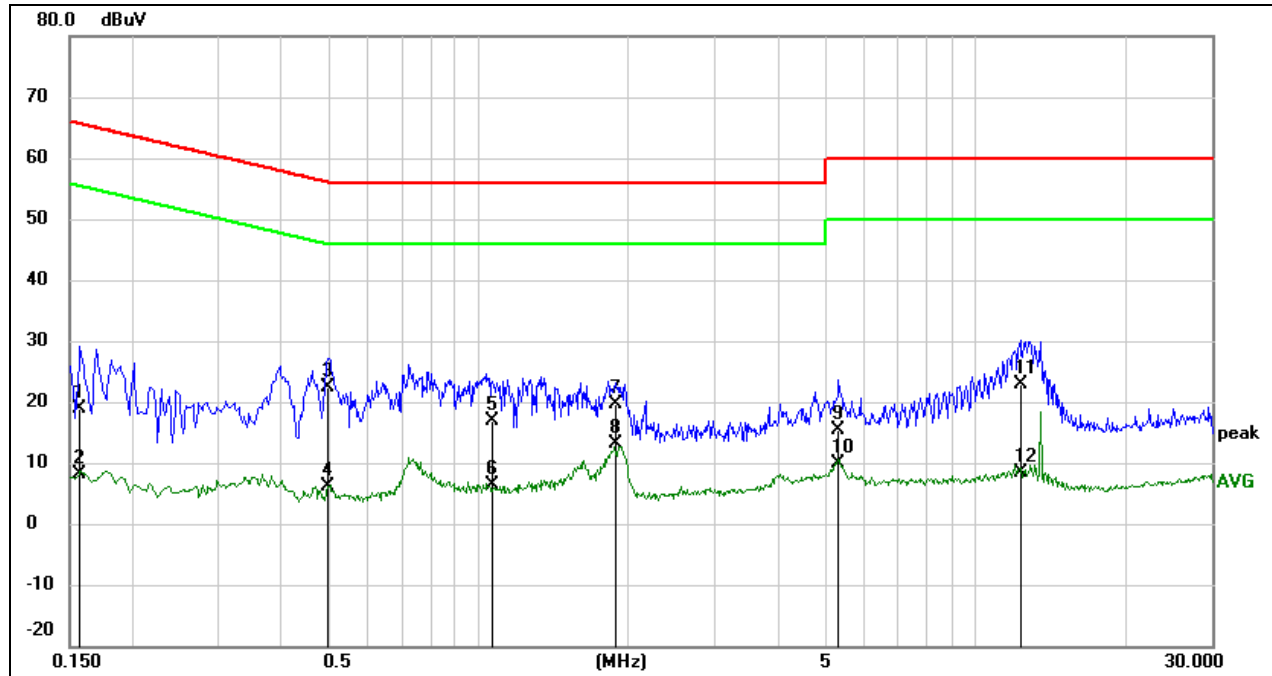
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1519	9.17	10.34	19.51	65.90	-46.39	QP
2	0.1519	-2.30	10.34	8.04	55.90	-47.86	AVG
3	0.1948	4.95	10.25	15.20	63.83	-48.63	QP
4	0.1948	-3.87	10.25	6.38	53.83	-47.45	AVG
5	0.5025	5.57	10.24	15.81	56.00	-40.19	QP
6	0.5025	-5.01	10.24	5.23	46.00	-40.77	AVG
7	1.0455	2.49	10.03	12.52	56.00	-43.48	QP
8	1.0455	-5.32	10.03	4.71	46.00	-41.29	AVG
9	5.3022	3.27	10.27	13.54	60.00	-46.46	QP
10	5.3022	-1.13	10.27	9.14	50.00	-40.86	AVG
11	12.6314	11.43	10.45	21.88	60.00	-38.12	QP
12	12.6314	-2.88	10.45	7.57	50.00	-42.43	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

Test Mode:	802.11b	Frequency(MHz):	2412
Line:	Neutral		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1562	8.67	10.23	18.90	65.66	-46.76	QP
2	0.1562	-1.99	10.23	8.24	55.66	-47.42	AVG
3	0.4975	12.22	10.04	22.26	56.04	-33.78	QP
4	0.4975	-3.85	10.04	6.19	46.04	-39.85	AVG
5	1.0633	7.13	9.84	16.97	56.00	-39.03	QP
6	1.0633	-3.57	9.84	6.27	46.00	-39.73	AVG
7	1.8927	9.65	10.02	19.67	56.00	-36.33	QP
8	1.8927	3.18	10.02	13.20	46.00	-32.80	AVG
9	5.3195	4.96	10.37	15.33	60.00	-44.67	QP
10	5.3195	-0.51	10.37	9.86	50.00	-40.14	AVG
11	12.3308	12.45	10.52	22.97	60.00	-37.03	QP
12	12.3308	-2.07	10.52	8.45	50.00	-41.55	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

11. TEST DATA

11.1. APPENDIX A DUTY CYCLE

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11b	32.95	32.98	0.9991	99.91	0.00	N/A	0.01
11g	5.484	5.51	0.9953	99.53	0.02	N/A	0.01
11n HT20	5.082	5.106	0.9953	99.53	0.02	N/A	0.01

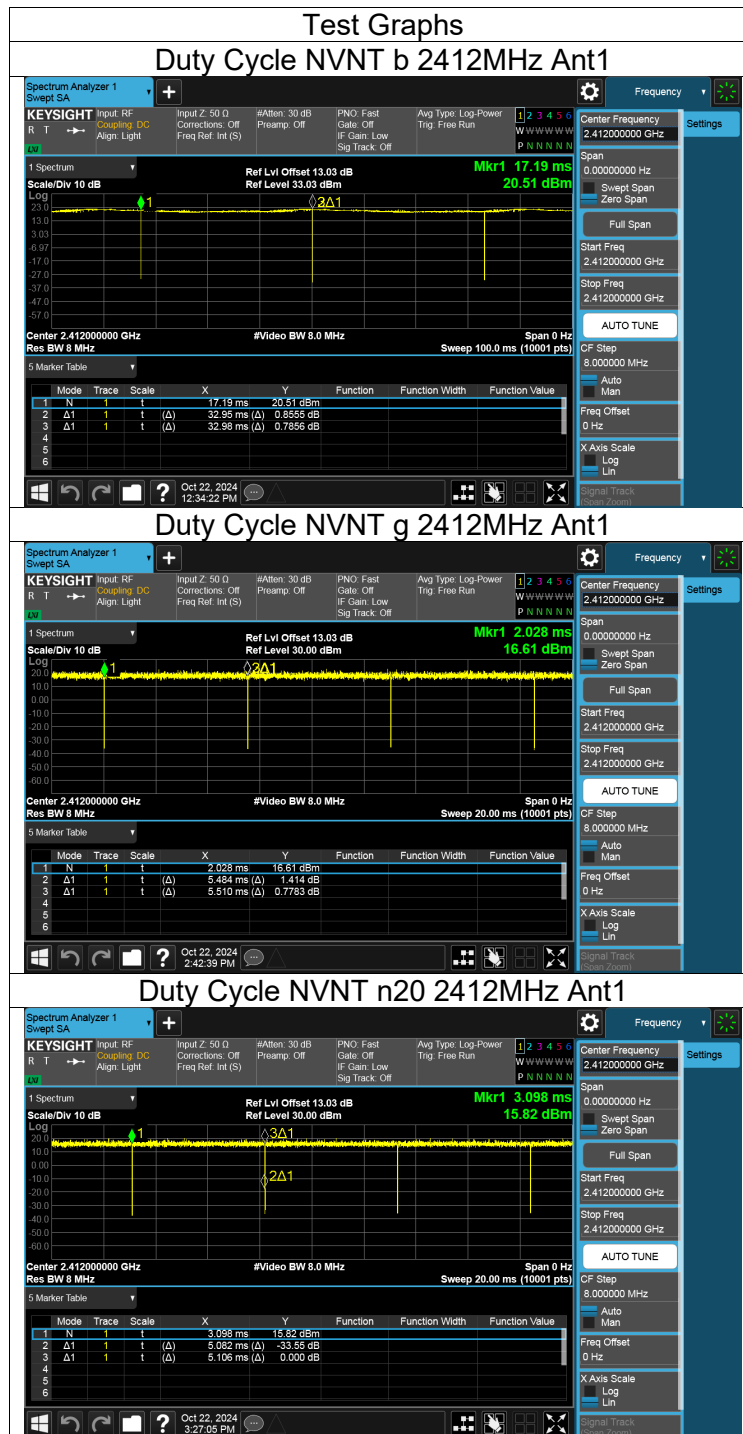
Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

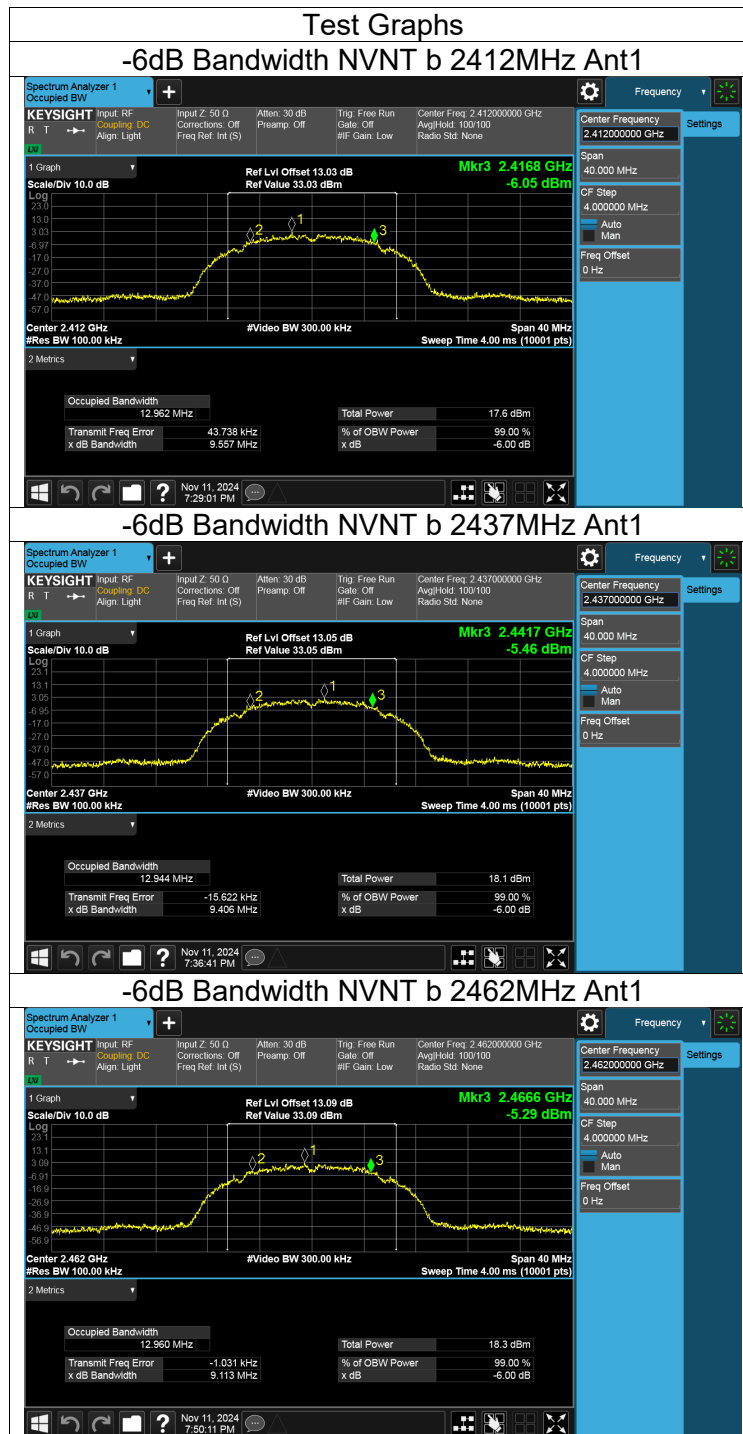


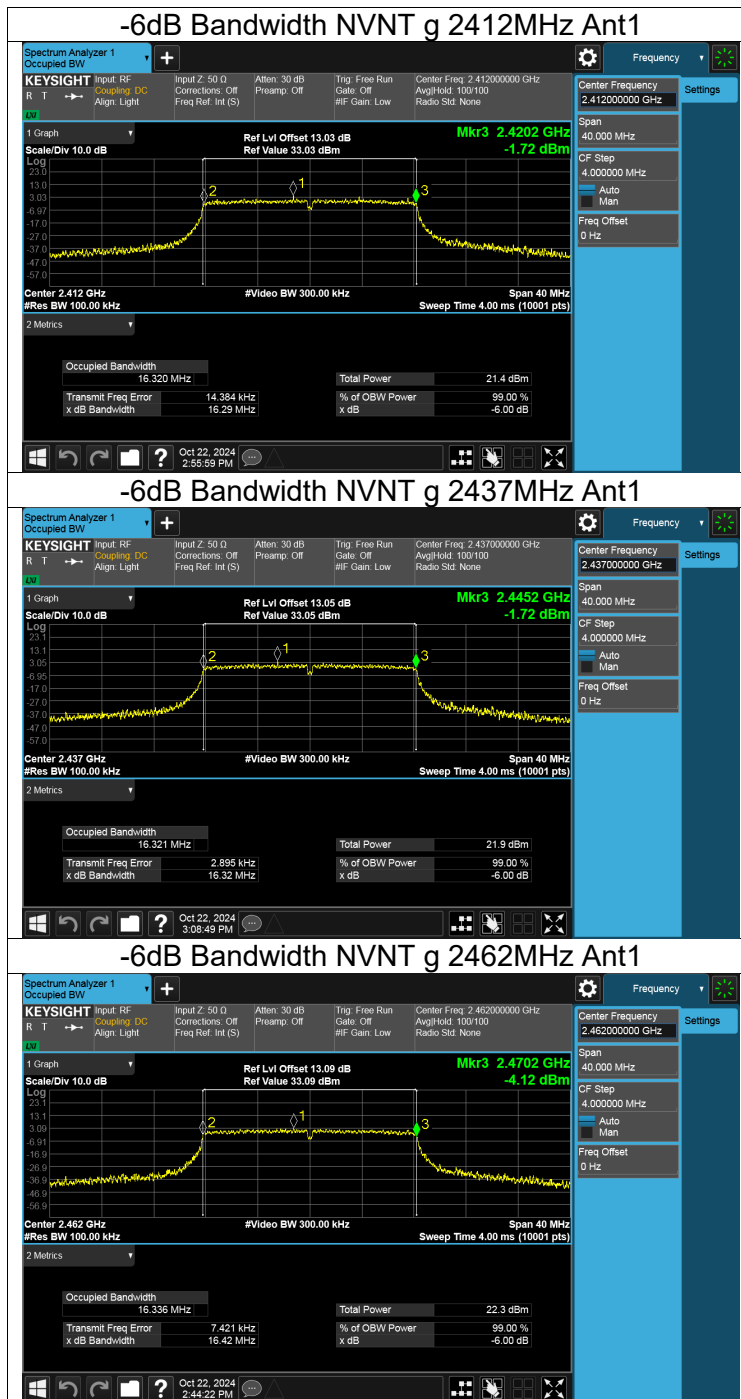
11.2. APPENDIX B MAXIMUM CONDUCTED OUTPUT POWER

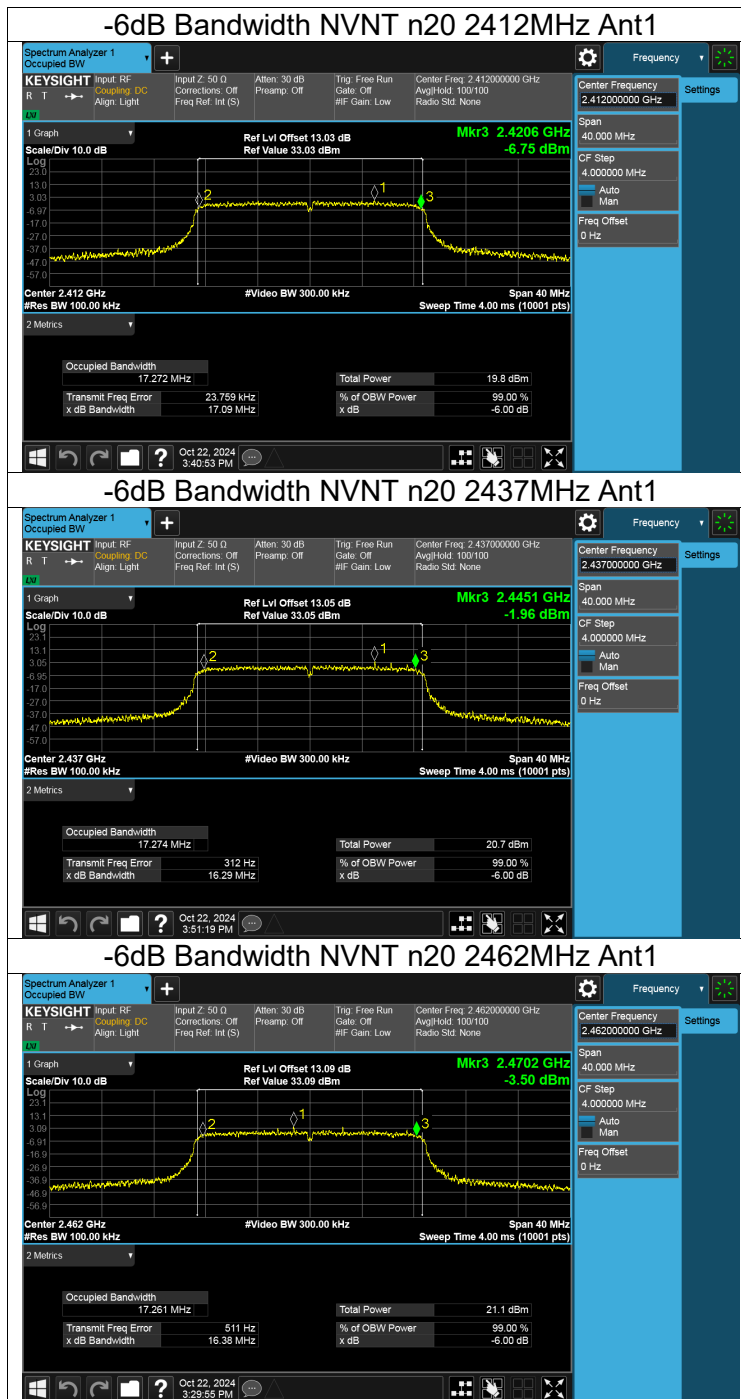
Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	11.05	30	Pass
b	2437	Ant1	11.04	30	Pass
b	2462	Ant1	11.35	30	Pass
g	2412	Ant1	14.23	30	Pass
g	2437	Ant1	14.54	30	Pass
g	2462	Ant1	14.68	30	Pass
n20	2412	Ant1	14.44	30	Pass
n20	2437	Ant1	14.87	30	Pass
n20	2462	Ant1	15.32	30	Pass

11.3. APPENDIX C 6DB BANDWIDTH

Mode	Frequency (MHz)	Antenna	6 dB Bandwidth (MHz)	Limit 6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	9.56	≥0.5	Pass
b	2437	Ant1	9.41	≥0.5	Pass
b	2462	Ant1	9.11	≥0.5	Pass
g	2412	Ant1	16.29	≥0.5	Pass
g	2437	Ant1	16.32	≥0.5	Pass
g	2462	Ant1	16.42	≥0.5	Pass
n20	2412	Ant1	17.09	≥0.5	Pass
n20	2437	Ant1	16.29	≥0.5	Pass
n20	2462	Ant1	16.38	≥0.5	Pass



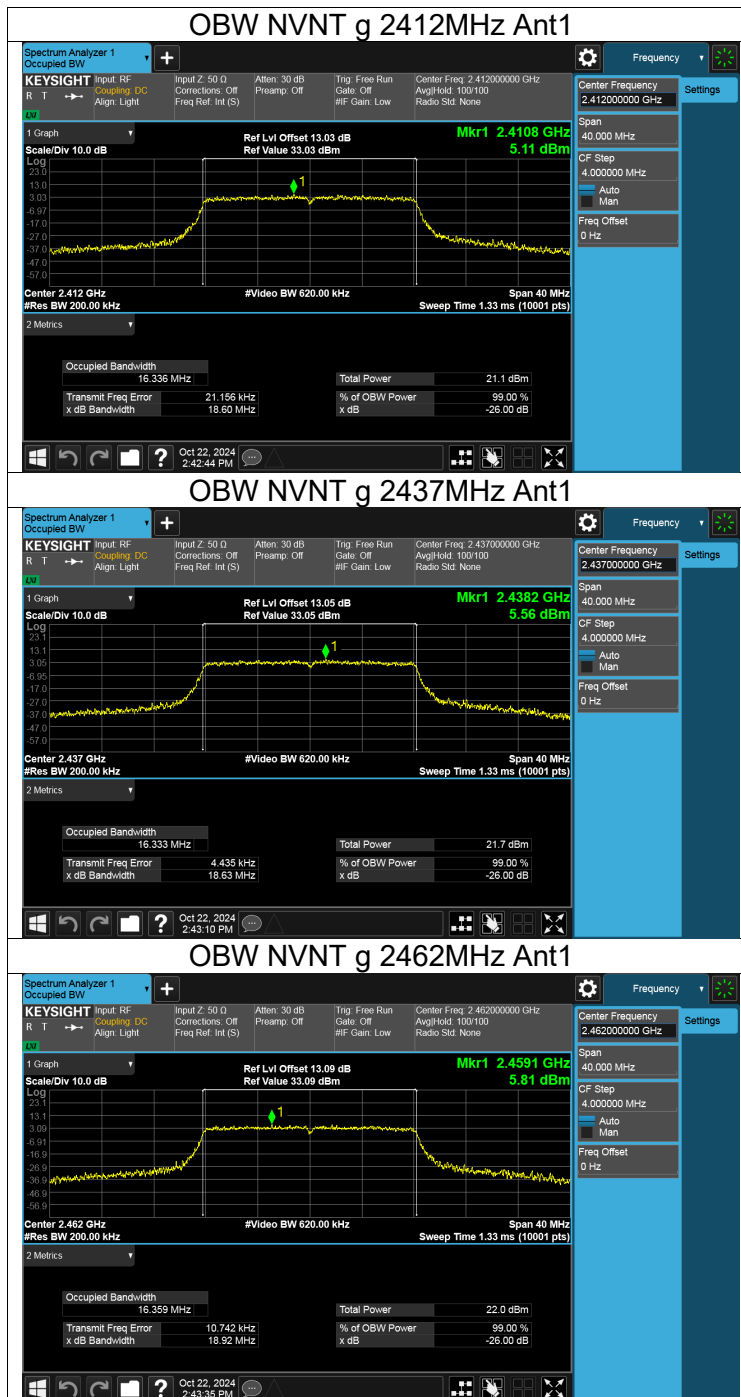


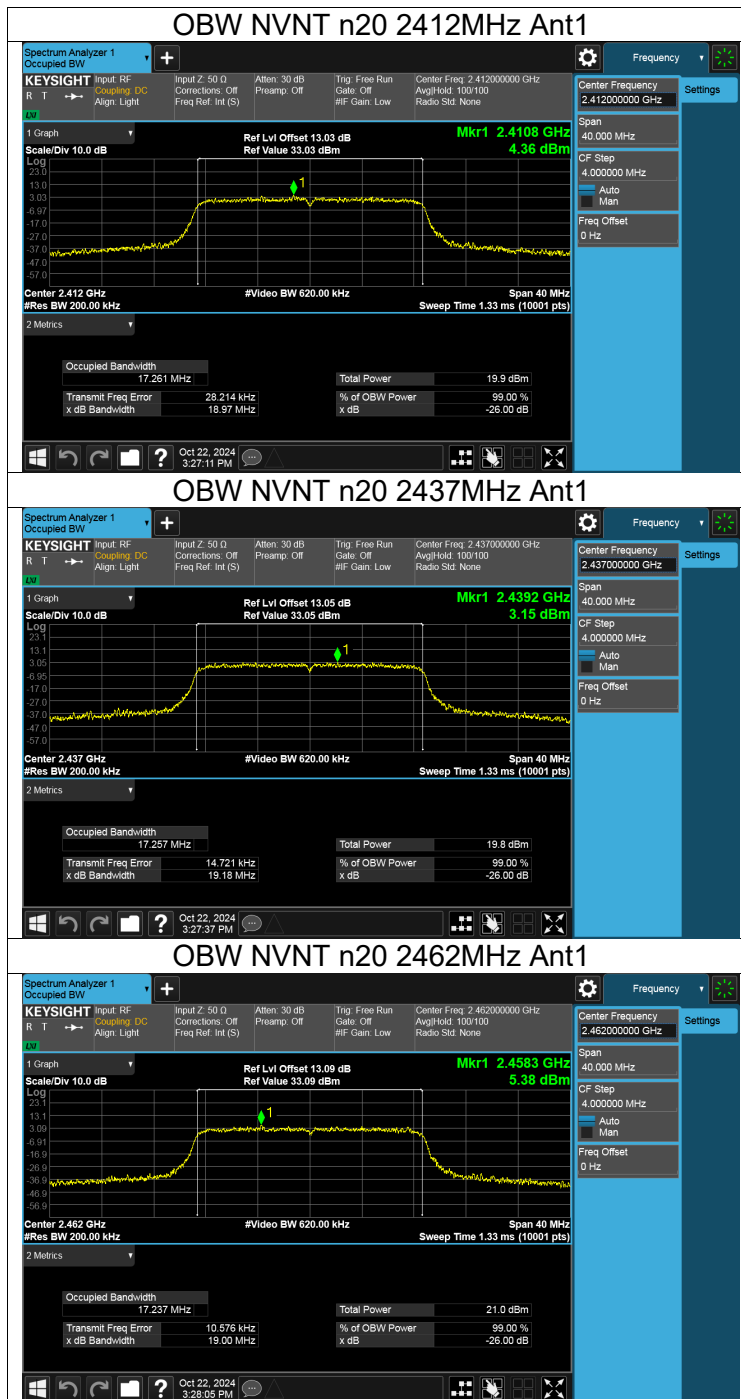


11.4. APPENDIX D OCCUPIED CHANNEL BANDWIDTH

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
b	2412	Ant1	12.905
b	2437	Ant1	12.996
b	2462	Ant1	13.041
g	2412	Ant1	16.336
g	2437	Ant1	16.333
g	2462	Ant1	16.359
n20	2412	Ant1	17.261
n20	2437	Ant1	17.257
n20	2462	Ant1	17.237

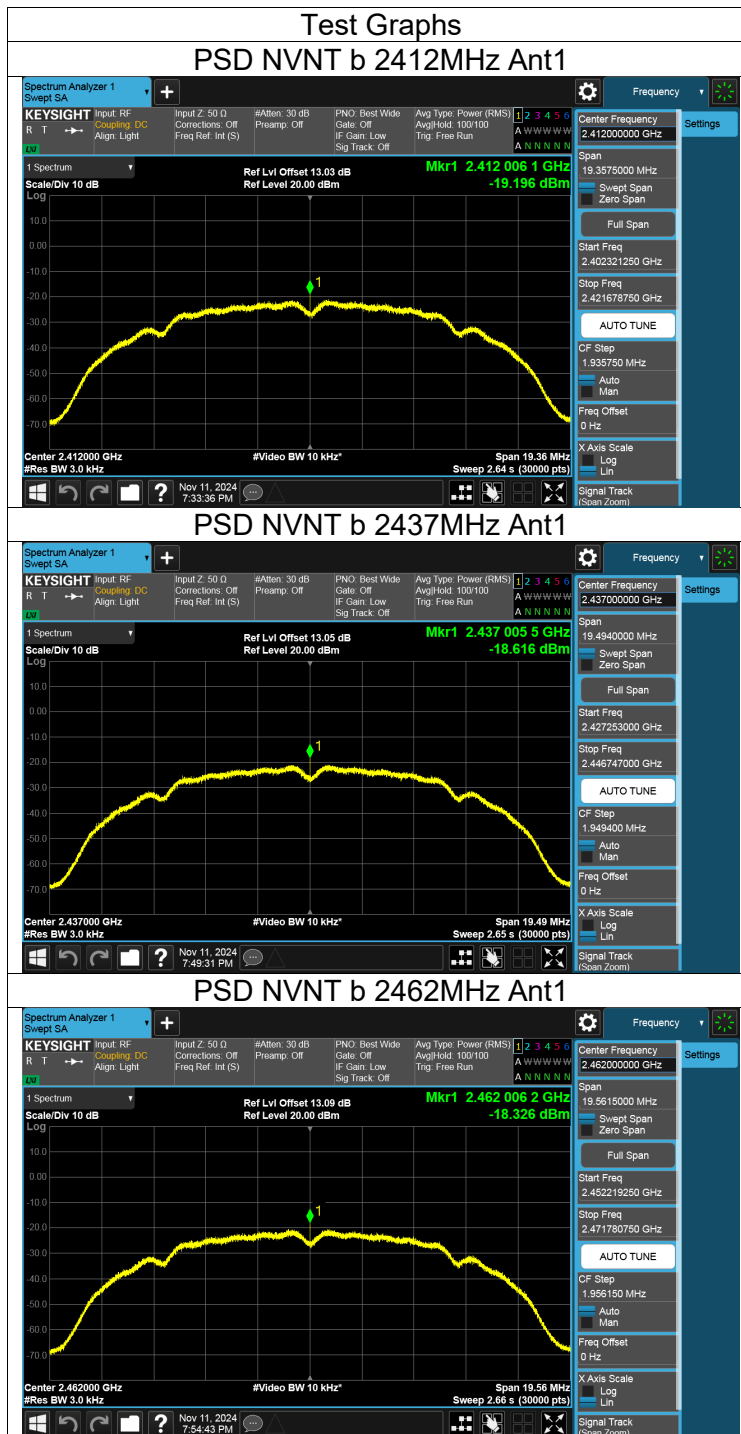


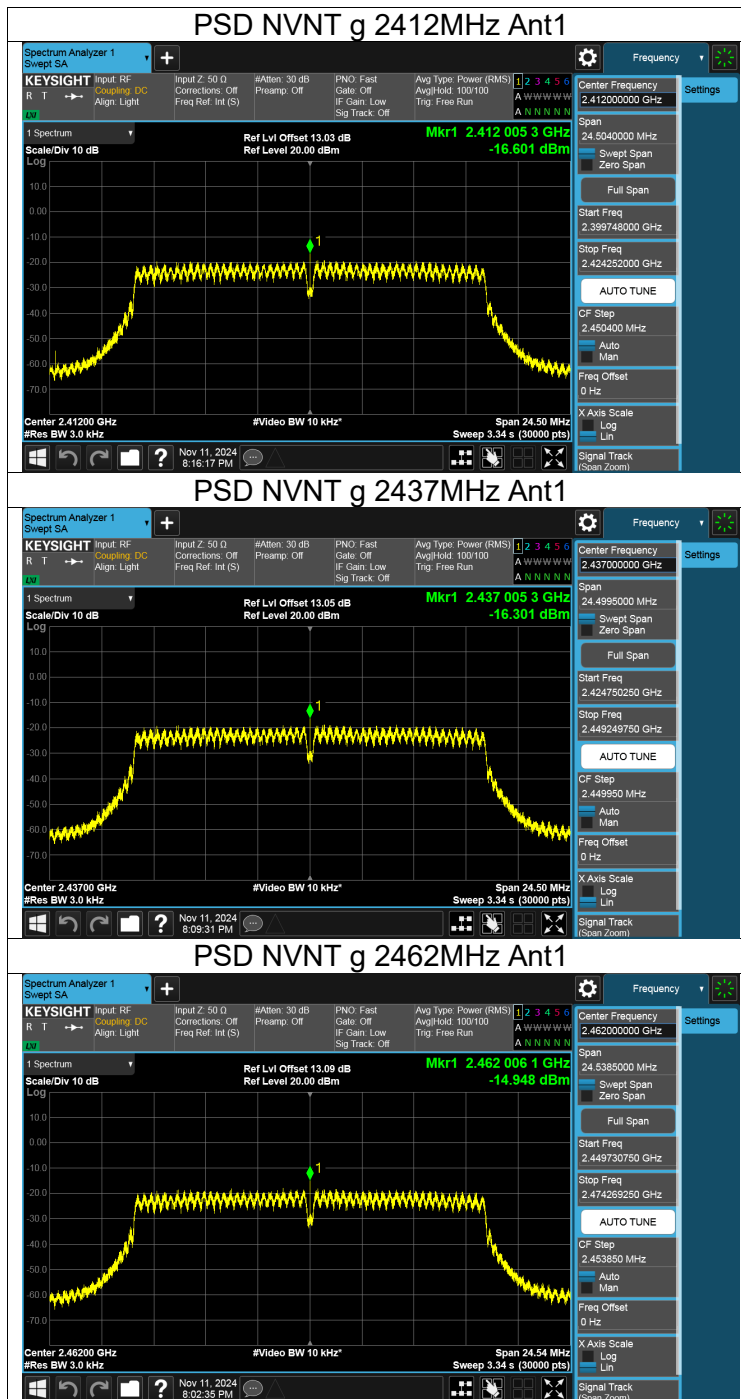


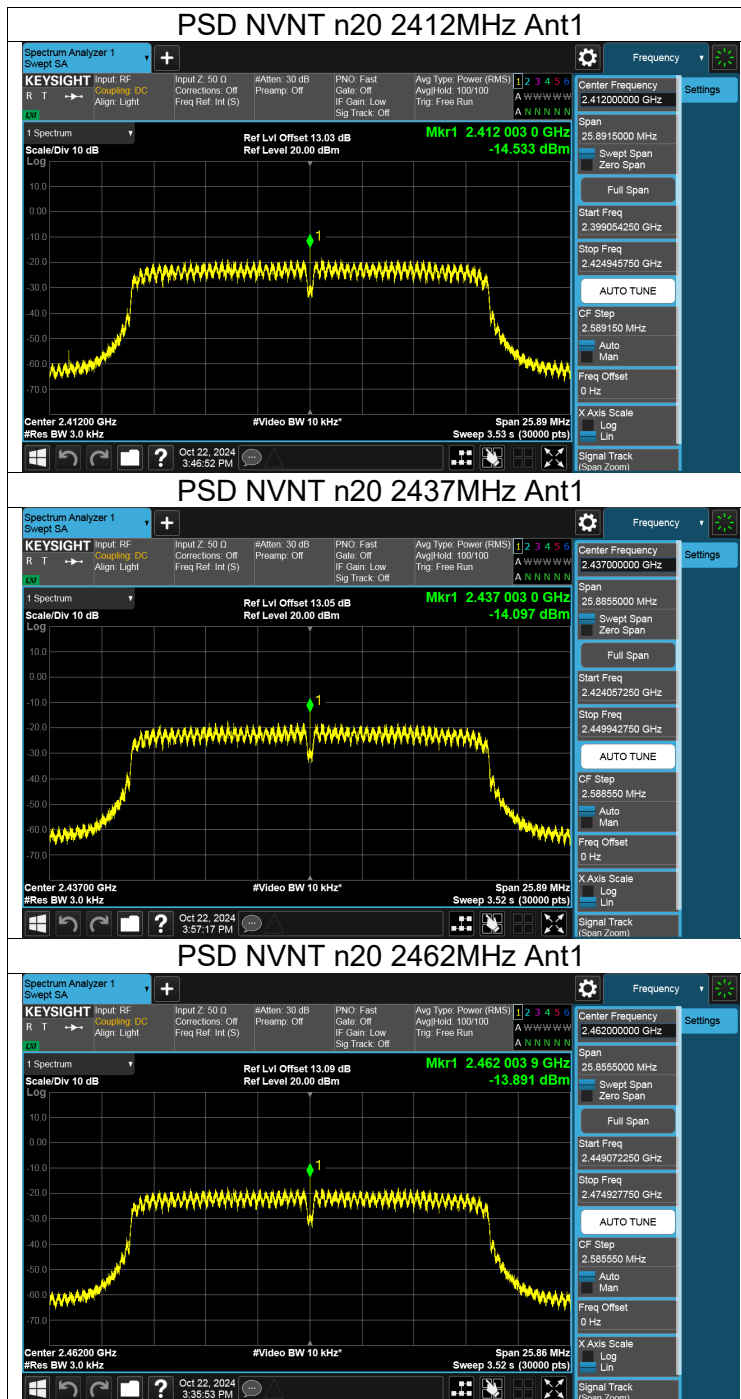


11.5. APPENDIX E MAXIMUM POWER SPECTRAL DENSITY LEVEL

Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-19.2	8	Pass
b	2437	Ant1	-18.62	8	Pass
b	2462	Ant1	-18.33	8	Pass
g	2412	Ant1	-16.6	8	Pass
g	2437	Ant1	-16.3	8	Pass
g	2462	Ant1	-14.95	8	Pass
n20	2412	Ant1	-14.53	8	Pass
n20	2437	Ant1	-14.1	8	Pass
n20	2462	Ant1	-13.89	8	Pass







11.6. APPENDIX F BAND EDGE

Mode	Frequency (MHz)	Antenna	Verdict
b	2412	Ant1	Pass
b	2462	Ant1	Pass
g	2412	Ant1	Pass
g	2462	Ant1	Pass
n20	2412	Ant1	Pass
n20	2462	Ant1	Pass

