

CFR 47 FCC PART 15 SUBPART C**TEST REPORT***For***INDOOR CAMERA, OUTDOOR CAMERA****MODEL NUMBER: SCS11X, SCW11X****REPORT NUMBER: 4791354637-1-RF-2****FCC ID: 2AB2Q-SCS11X****ISSUE DATE: June 15, 2024***Prepared for***LEEDARSON LIGHTING CO., LTD****Xingtai Industrial Park, Economic Development Zone of Changtai County,
Zhangzhou City, Fujian.***Prepared by***UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch****Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China****Tel: +86 769 22038881****Fax: +86 769 33244054****Website: www.ul.com**

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	June 15, 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

*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>10</i>
5.4. <i>TEST CHANNEL CONFIGURATION</i>	<i>10</i>
5.5. <i>THE WORSE CASE POWER SETTING PARAMETER</i>	<i>11</i>
5.6. <i>WORST-CASE CONFIGURATIONS</i>	<i>12</i>
5.7. <i>DESCRIPTION OF AVAILABLE ANTENNAS</i>	<i>12</i>
5.8. <i>SUPPORT UNITS FOR SYSTEM TEST</i>	<i>13</i>
6. MEASURING EQUIPMENT AND SOFTWARE USED	14
7. ANTENNA PORT TEST RESULTS	17
7.1. <i>CONDUCTED OUTPUT POWER</i>	<i>17</i>
7.2. <i>6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH</i>	<i>18</i>
7.3. <i>POWER SPECTRAL DENSITY</i>	<i>20</i>
7.4. <i>CONDUCTED BAND EDGE AND SPURIOUS EMISSION</i>	<i>22</i>
7.5. <i>DUTY CYCLE</i>	<i>24</i>
8. RADIATED TEST RESULTS	25
8.1. <i>RESTRICTED BANDEdge</i>	<i>33</i>
8.2. <i>SPURIOUS EMISSIONS(1 GHZ~3 GHZ)</i>	<i>73</i>
8.3. <i>SPURIOUS EMISSIONS(3 GHZ~18 GHZ)</i>	<i>79</i>
8.4. <i>SPURIOUS EMISSIONS(9 KHZ~30 MHZ)</i>	<i>129</i>
8.5. <i>SPURIOUS EMISSIONS(18 GHZ~26 GHZ)</i>	<i>132</i>
8.6. <i>SPURIOUS EMISSIONS(30 MHZ~1 GHZ)</i>	<i>134</i>
9. ANTENNA REQUIREMENT	136
10. AC POWER LINE CONDUCTED EMISSION	137

11. TEST DATA	141
Appendix A: Duty Cycle	141
Appendix B: Maximum Conducted Output Power	144
Appendix C: -6dB Bandwidth.....	145
Appendix D: Occupied Channel Bandwidth	155
Appendix E: Maximum Power Spectral Density Level	165
Appendix F: Band Edge.....	175
Appendix G: Conducted RF Spurious Emission.....	189

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: LEEDARSON LIGHTING CO., LTD
Address: Xingtai Industrial Park, Economic Development Zone of Changtai County, Zhangzhou City, Fujian.

Manufacturer Information

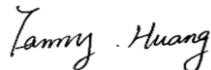
Company Name: LEEDARSON LIGHTING CO., LTD
Address: Xingtai Industrial Park, Economic Development Zone of Changtai County, Zhangzhou City, Fujian.

EUT Information

EUT Name: INDOOR CAMERA
Series EUT Name: OUTDOOR CAMERA
Model: SCS11X
Series Model: SCW11X
Model Difference: Refer to declaration
Brand: Roku
Sample Received Date: June 6, 2024
Sample Status: Normal
Sample ID: 7291946
Date of Tested: June 6, 2024 to June 15, 2024

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

Prepared By:



Fanny Huang

Engineer Project Associate

Checked By:



Denny Huang

Senior Project Engineer

Approved By:



Stephen Guo

Operations Manager

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	<p>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.</p> <p>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</p> <p>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.</p> <p>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.</p> <p>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</p>
---------------------------	---

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	INDOOR CAMERA
Series EUT Name	OUTDOOR CAMERA
Model	SCS11X
Series Model	SCW11X
Model Difference	Refer to declaration

Frequency Range:	2412 MHz to 2462 MHz
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA(1024QAM, 64-QAM, 16-QAM, QPSK, BPSK)
Radio Technology:	IEEE 802.11b/g/n HT20/11n HT40/ax HE20/ax HE40
Normal Test Voltage:	AC 120 V, 60 Hz

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	/	/

Channel List For Bandwidth=40 MHz							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	5	2432	7	2442	9	2452
4	2427	6	2437	8	2447	/	/

5.3. MAXIMUM POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)
b	2412 ~ 2462	1-11[11]	19.45
g	2412 ~ 2462	1-11[11]	17.93
n HT20	2412 ~ 2462	1-11[11]	17.92
n HT40	2422 ~ 2452	3-9[7]	13.72
ax HE20	2412 ~ 2462	1-11[11]	17.60
ax HE40	2422 ~ 2452	3-9[7]	13.70

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
n HT40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz
ax HE20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
ax HE40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band	
Test Software	sscom5.13.1

Mode	Frequency (MHz)	Antenna	Power setting
b	2412	Ant1	19
b	2437	Ant1	19
b	2462	Ant1	19
g	2412	Ant1	16
g	2417	Ant1	18
g	2437	Ant1	18
g	2457	Ant1	18
g	2462	Ant1	16
n20	2412	Ant1	16
n20	2417	Ant1	18
n20	2437	Ant1	18
n20	2457	Ant1	18
n20	2462	Ant1	15
n40	2422	Ant1	13
n40	2437	Ant1	14
n40	2452	Ant1	14
ax20	2412	Ant1	16
ax20	2417	Ant1	18
ax20	2437	Ant1	18
ax20	2452	Ant1	18
ax20	2457	Ant1	16
ax20	2462	Ant1	14
ax40	2422	Ant1	14
ax40	2437	Ant1	14
ax40	2452	Ant1	13

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
 802.11n HT40 mode: MCS0
 802.11ax HE20 mode: MCS0
 802.11ax HE40 mode: MCS0

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	PCB Antenna	2.22

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE20	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE40	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
Note: 1.BLE&WLAN 2.4G can't transmit simultaneously. (declared by client)		

5.8. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	E42-80	R303U5AG
2	UART	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	1.0	/

ACCESSORIES

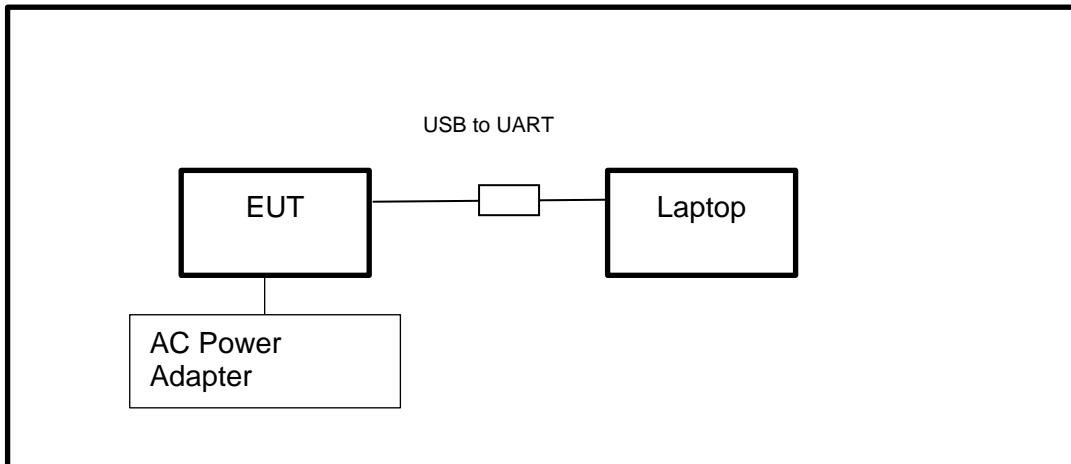
Item	Accessory	Brand Name	Model Name	Description	Remark
1	AC Power Adapter	Roku	HFS005A	Input: 100-240V 50/60Hz 0.2A Output: 5V 1A	For indoor camera
2	AC Power Adapter	Roku	GQ06A-050100-ZUU	Input: 100-240V 50/60Hz 0.3A Output: 5V 1A	For indoor camera
3	AC Power Adapter	Roku	HFS008J-0501500U	Input: 100-240V 50/60Hz 0.5A Output: 5V 1.5A	For outdoor camera

Note: We have pre-test these three AC Power Adapter, only the worst data on GQ06A-050100-ZUU AC Power Adapter usage was recorded in the report.

TEST SETUP

The EUT can work in engineering mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS



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	Oct.12, 2023	Oct.11, 2024
Signal Generator	R&S	SMB100A	178553	Oct.12, 2023	Oct.11, 2024
Signal Analyzer	R&S	FSV40	101118	Oct.12, 2023	Oct.11, 2024
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
Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.12, 2023	Oct.11, 2024
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.25, 2023	Sep.24, 2024
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Oct.12, 2023	Oct.11, 2024
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Oct.12, 2023	Oct.11, 2024
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Oct.12, 2023	Oct.11, 2024
DC power supply	Keysight	E3642A	MY55159130	Oct.12, 2023	Oct.11, 2024
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Oct.12, 2023	Oct.11, 2024
Attenuator	Aglient	8495B	2814a12853	Oct.12, 2023	Oct.11, 2024
RF Control Unit	Tonsend	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	Oct.13, 2023	Oct.12, 2024
Two-Line V-Network	R&S	ENV216	101983	Oct.13, 2023	Oct.12, 2024
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.13, 2023	Oct.12, 2024
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	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

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.21, 2023	Oct.20, 2024
Barometer	Yiyi	Baro	N/A	Oct.19, 2023	Oct.18, 2024
Attenuator	Agilent	8495B	2814a12853	Oct.12, 2023	Oct.11, 2024

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) ISED RSS-247 5.4 (d)	AVG Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

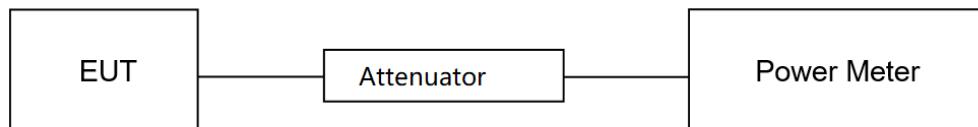
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

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	25.1 °C	Relative Humidity	57.3%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	June 7, 2024	Test By	Walker Yuan
-----------	--------------	---------	-------------

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
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

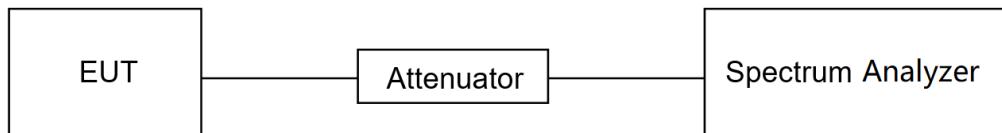
TEST PROCEDURE

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

- Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- 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	25.1°C	Relative Humidity	57.3%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	June 7, 2024	Test By	Walker Yuan
-----------	--------------	---------	-------------

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 11.10.2.

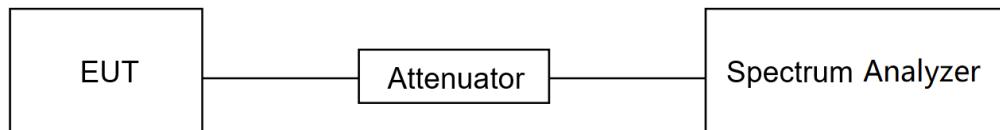
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	power averaging (rms)
RBW	3 kHz ≤ RBW ≤ 100 kHz
VBW	≥3 × RBW
Span	1.5 x 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	25.1 °C	Relative Humidity	57.3%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	June 7, 2024	Test By	Walker Yuan
-----------	--------------	---------	-------------

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:

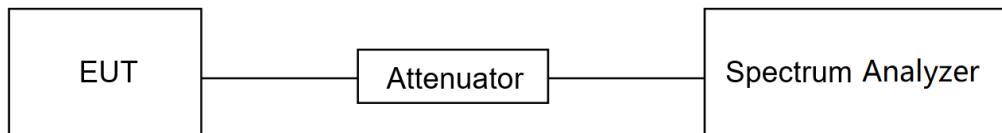
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times$ RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

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	$\geq 3 \times$ RBW
measurement points	\geq span/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	25.1°C	Relative Humidity	57.3%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	June 7, 2024	Test By	Walker Yuan
-----------	--------------	---------	-------------

TEST RESULTS

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

7.5. DUTY CYCLE

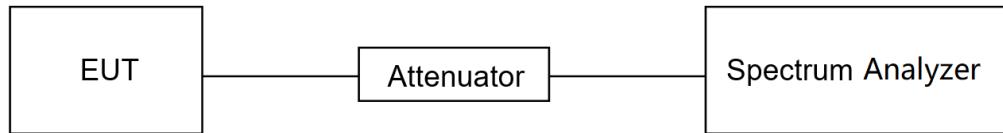
LIMITS

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	25.1 °C	Relative Humidity	57.3%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	June 7, 2024	Test By	Walker Yuan
-----------	--------------	---------	-------------

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 (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

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 dB_{UV}/m, which is equivalent to $Y-51.5 = Z$ dB_{UA}/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.

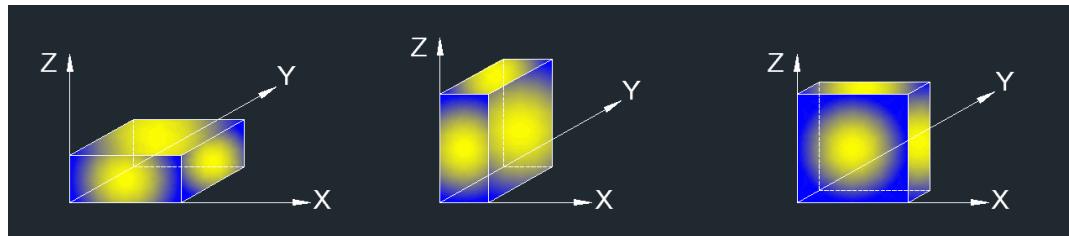
Above 1 GHz

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 (X axis) data recorded in the report.

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. $dBuA/m = dBuV/m - 20\log_{10}[120\pi] = dBuV/m - 51.5$

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:

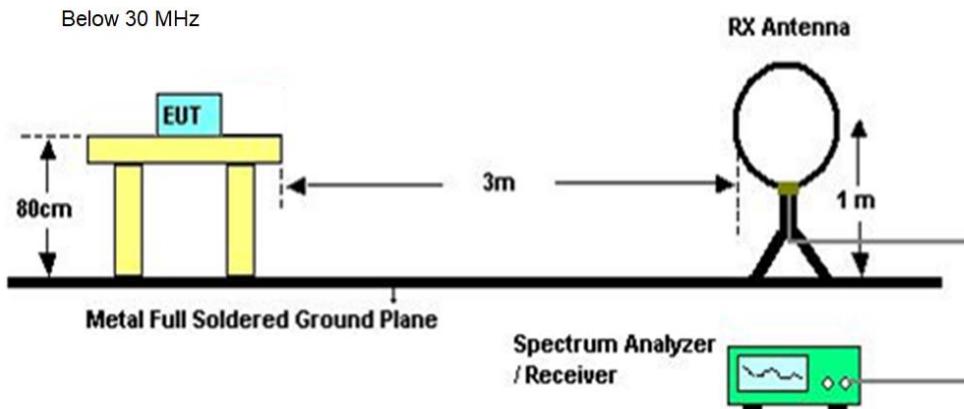
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for 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):

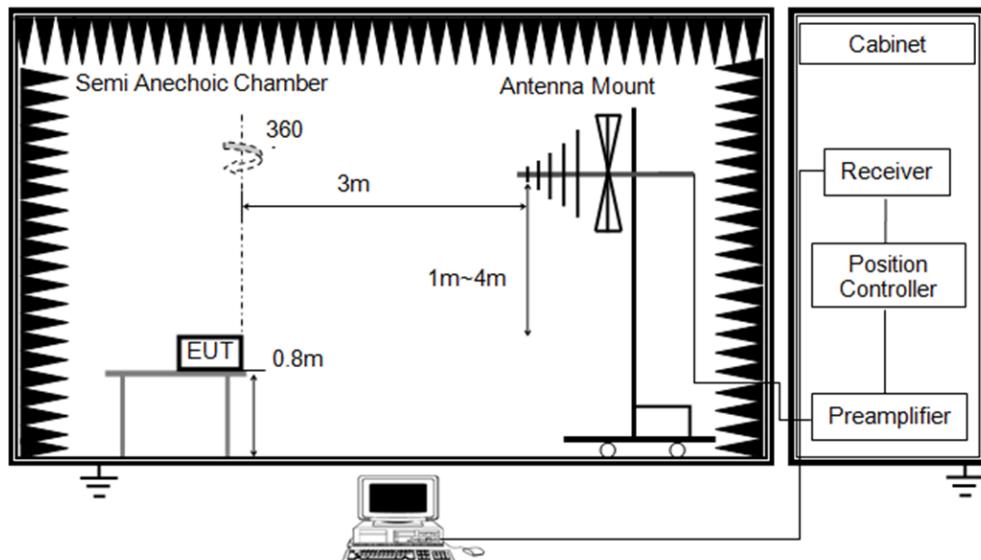
Note:

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.

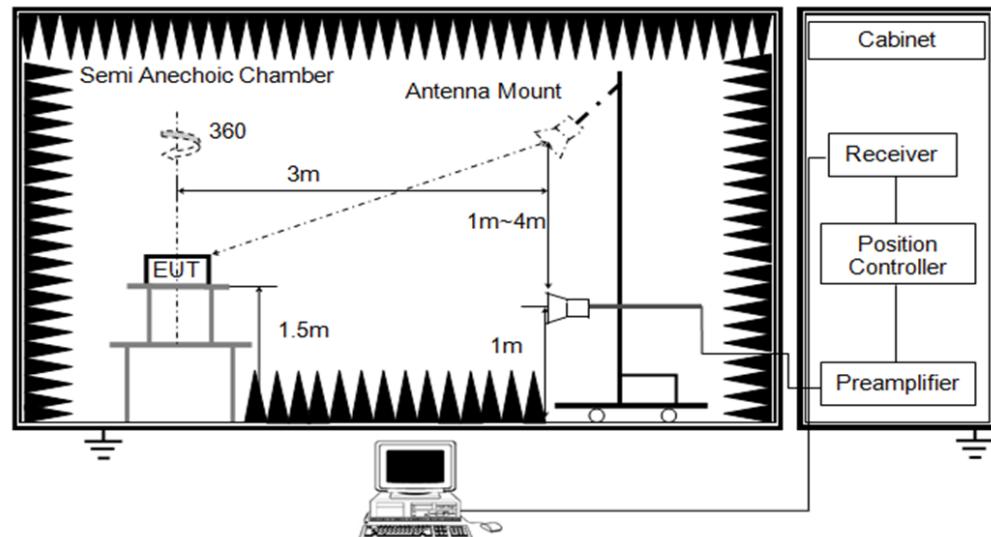
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



TEST ENVIRONMENT

Temperature	21.8°C	Relative Humidity	62.8%
Atmosphere Pressure	101kPa	Test Voltage	

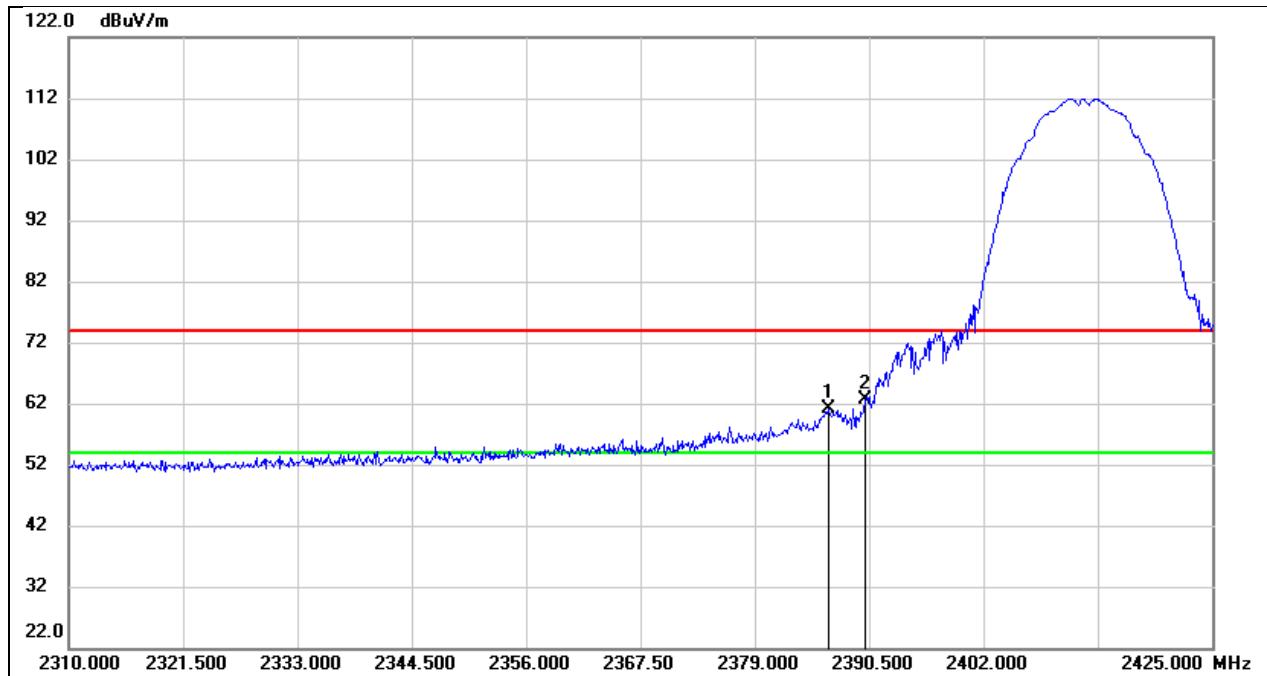
TEST DATE / ENGINEER

Test Date	June 15, 2024	Test By	Mason Wang
-----------	---------------	---------	------------

TEST RESULTS

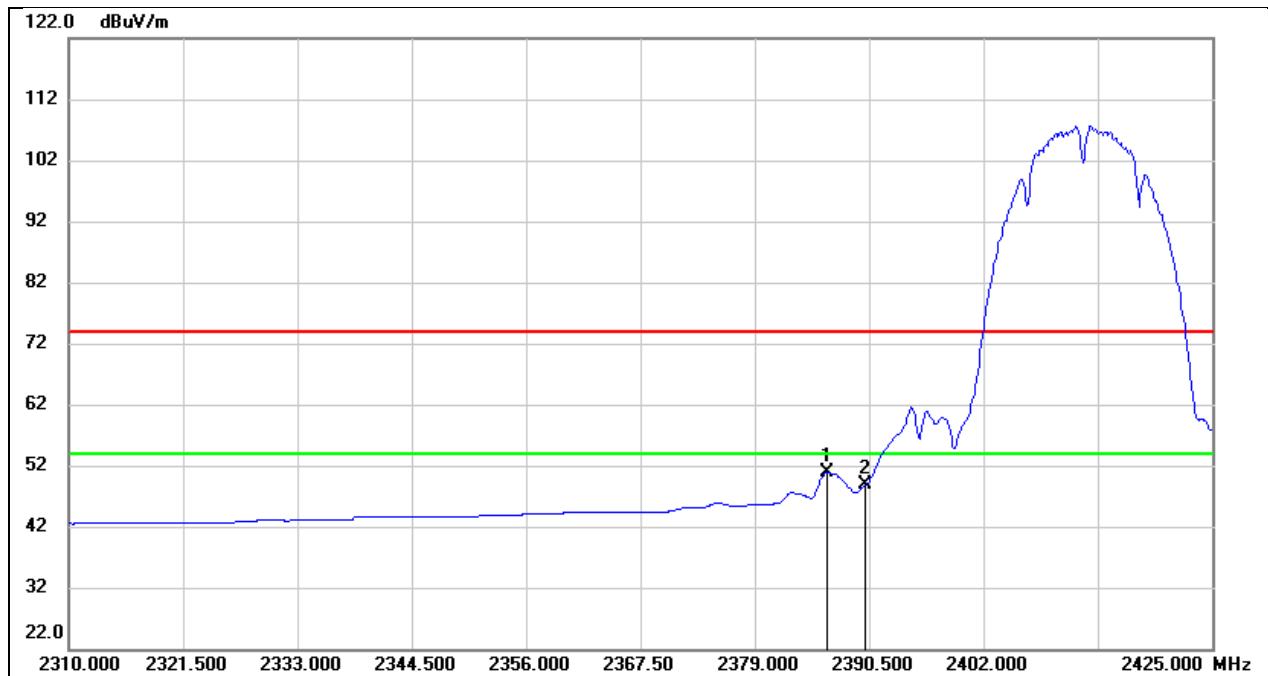
8.1. RESTRICTED BANDEDGE

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



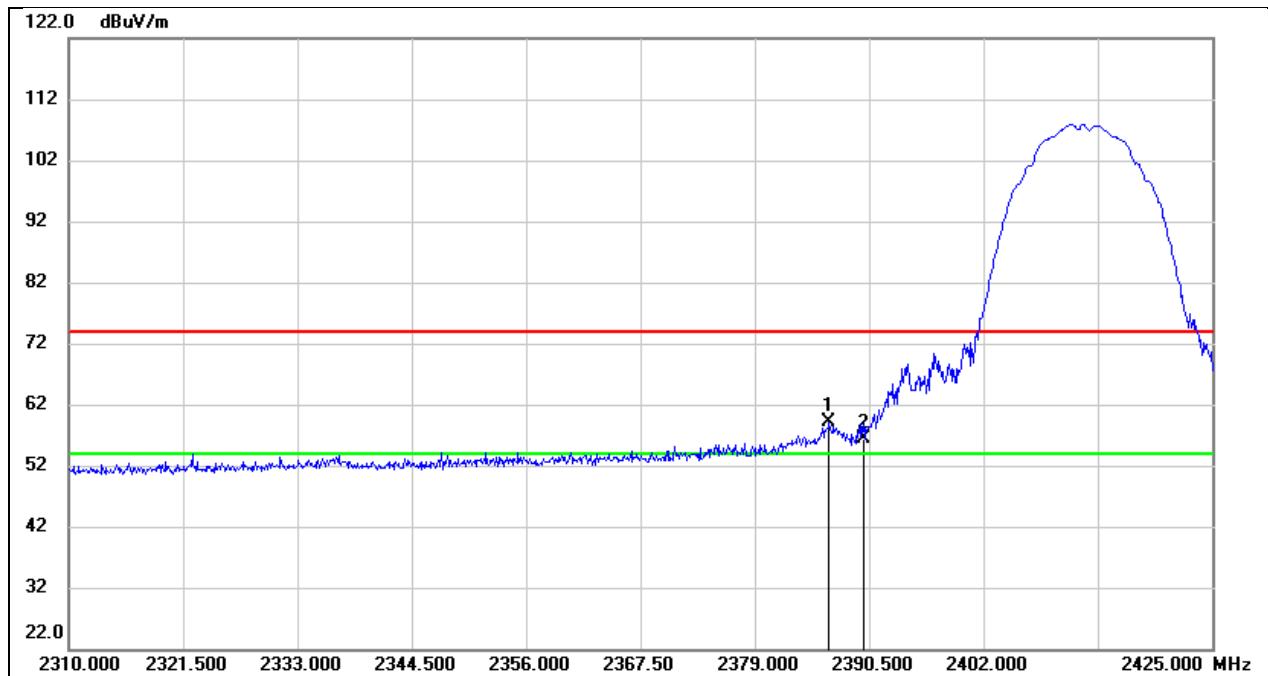
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.245	28.18	32.90	61.08	74.00	-12.92	peak
2	2390.000	29.65	32.92	62.57	74.00	-11.43	peak

Test Mode:	802.11b AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



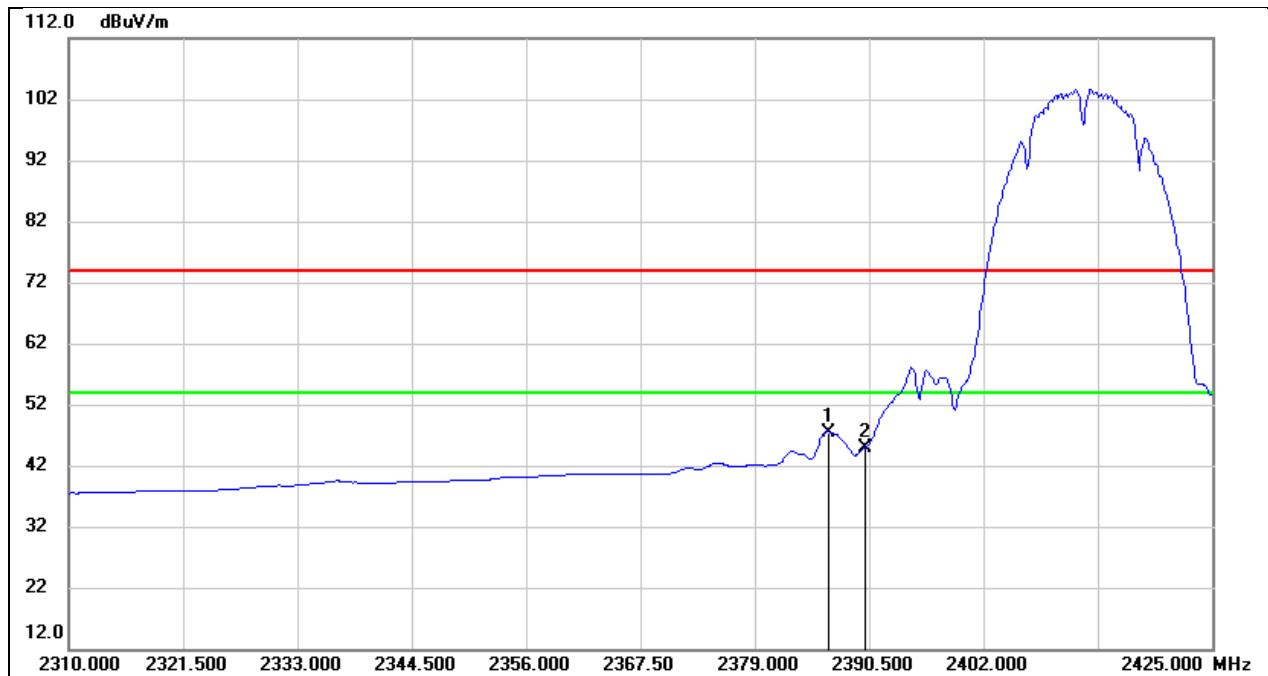
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.245	18.05	32.90	50.95	54.00	-3.05	AVG
2	2390.000	15.86	32.92	48.78	54.00	-5.22	AVG

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



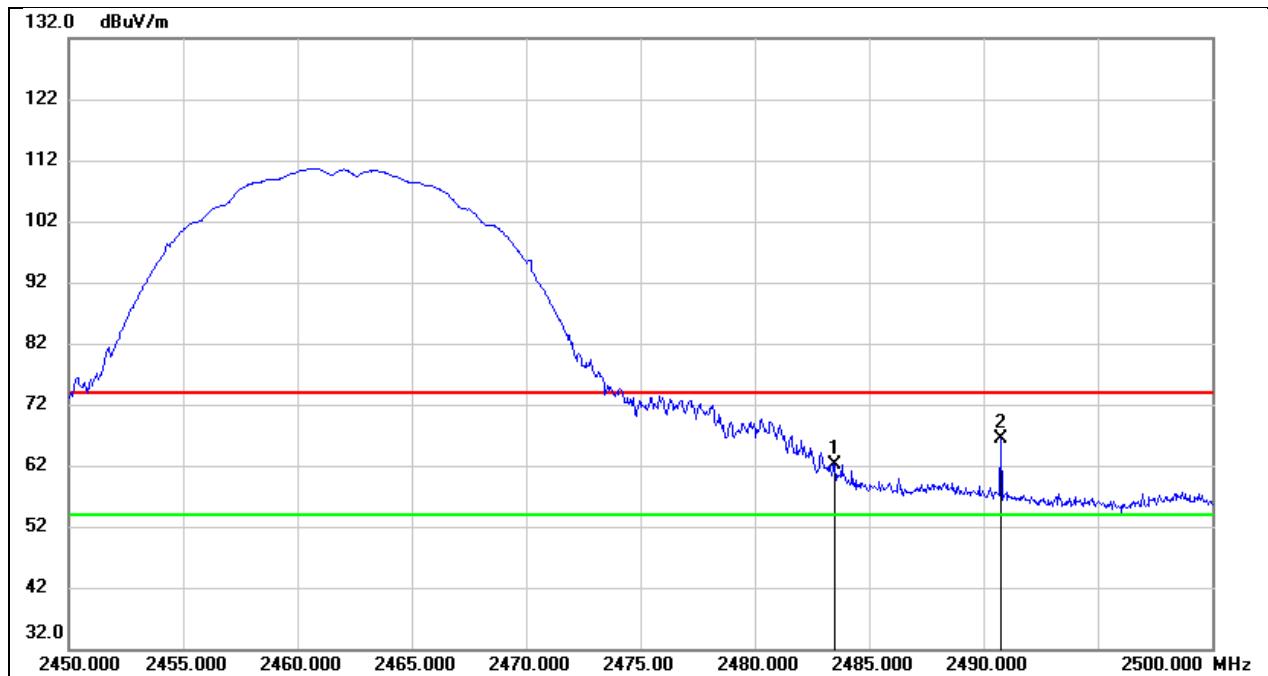
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.475	26.13	32.90	59.03	74.00	-14.97	peak
2	2390.000	23.56	32.92	56.48	74.00	-17.52	peak

Test Mode:	802.11b AV	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



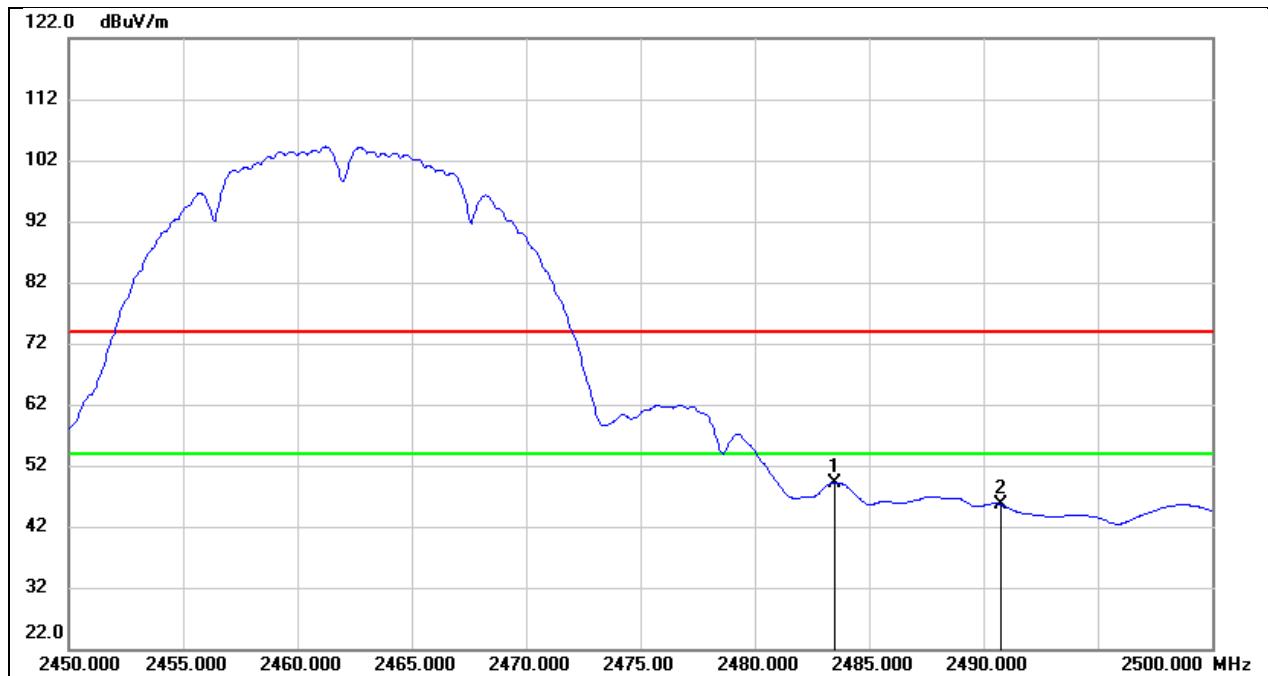
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.475	14.49	32.90	47.39	54.00	-6.61	AVG
2	2390.000	12.07	32.92	44.99	54.00	-9.01	AVG

Test Mode:	802.11b PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



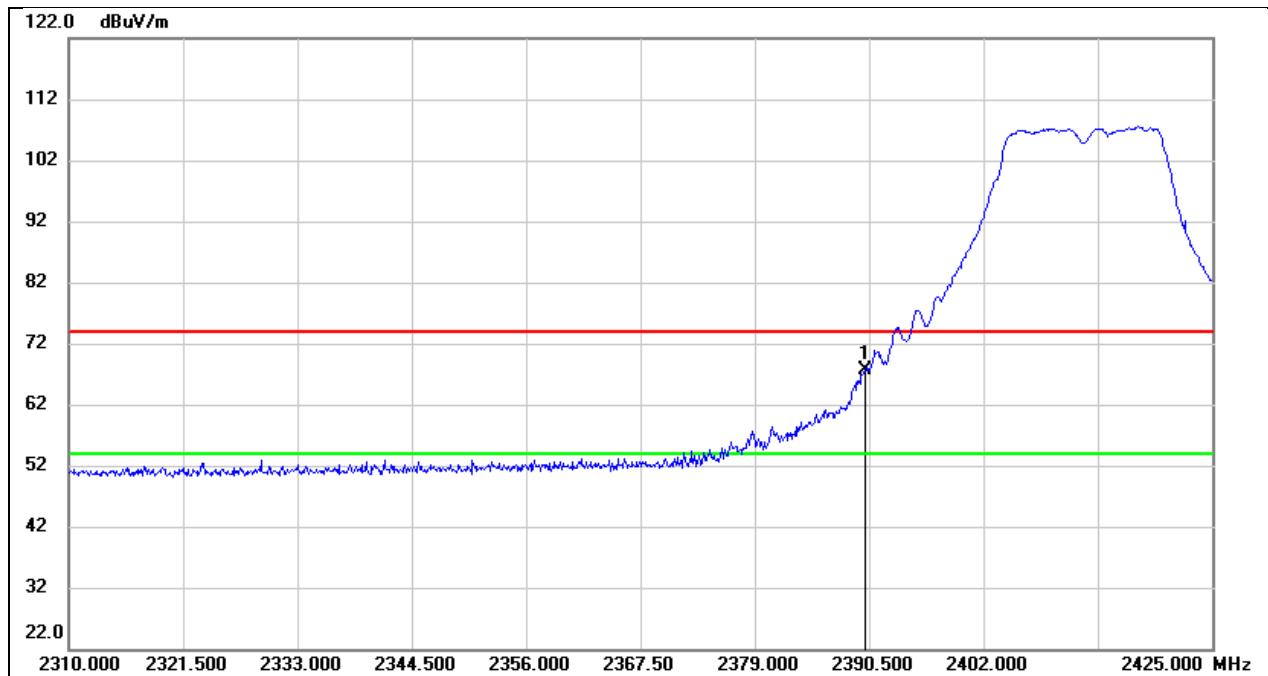
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	29.17	32.94	62.11	74.00	-11.89	peak
2	2490.750	33.47	32.94	66.41	74.00	-7.59	peak

Test Mode:	802.11b AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.26	32.94	49.20	54.00	-4.80	AVG
2	2490.750	12.71	32.94	45.65	54.00	-8.35	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



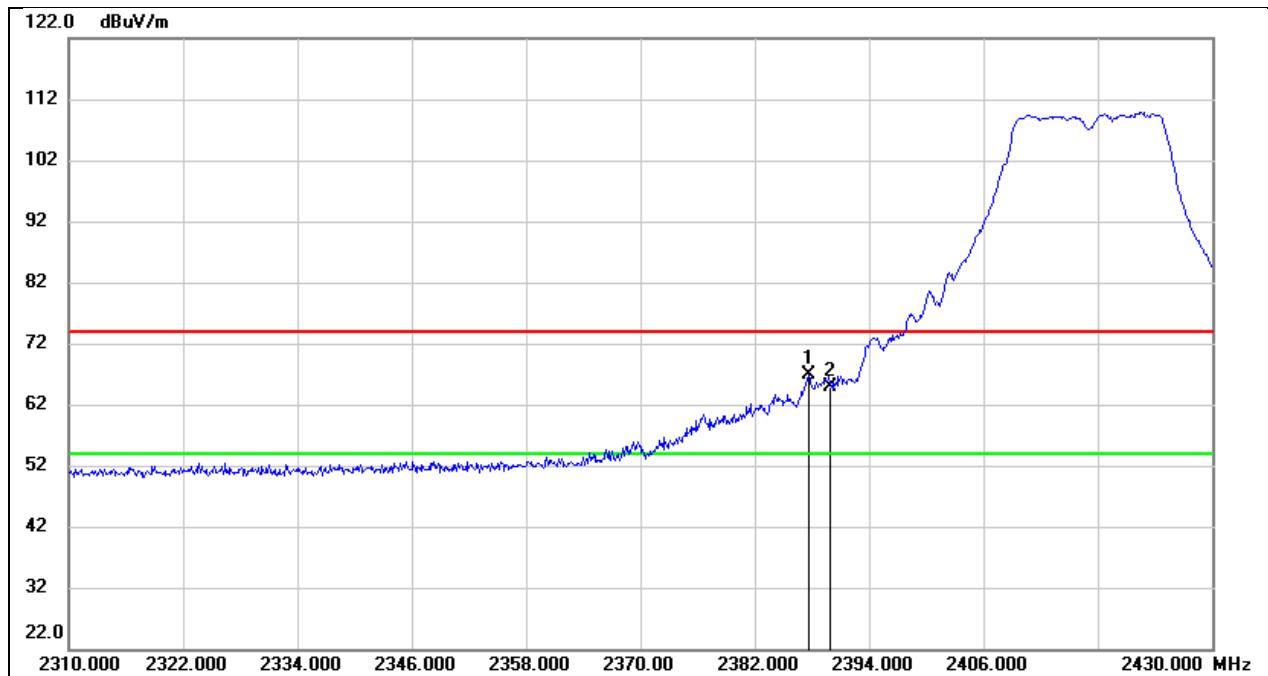
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	34.67	32.92	67.59	74.00	-6.41	peak

Test Mode:	802.11g AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



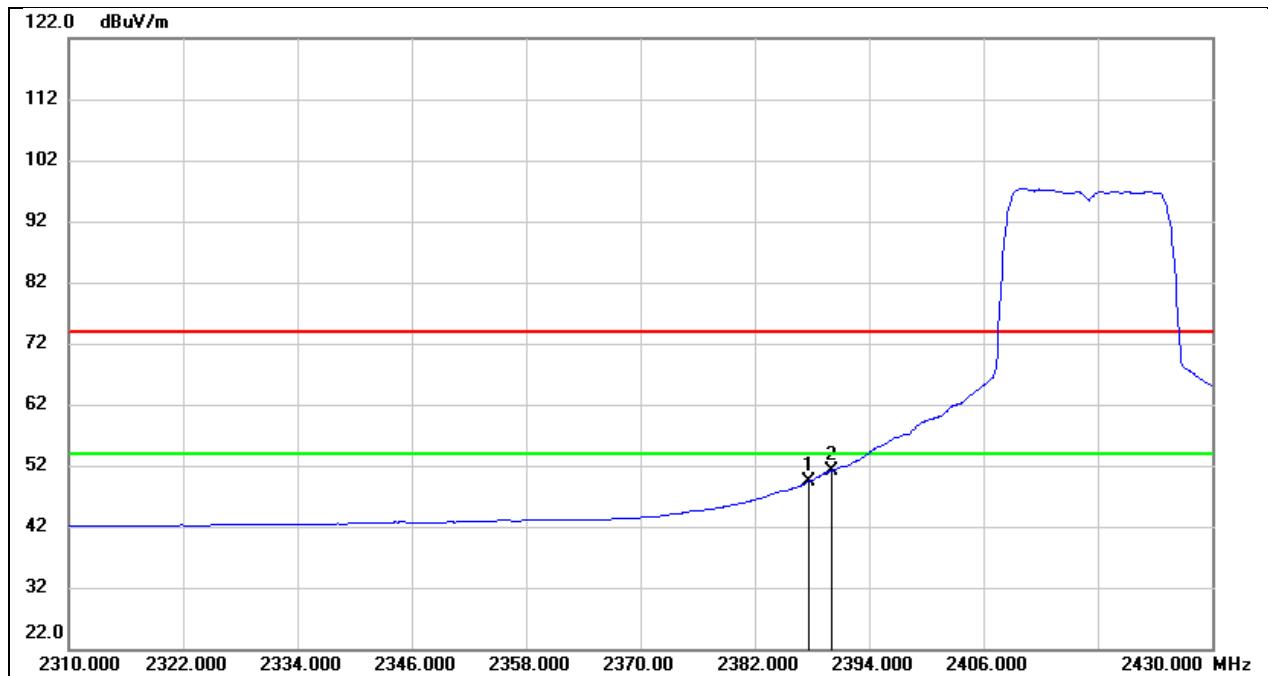
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	14.38	32.92	47.30	54.00	-6.70	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2417
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



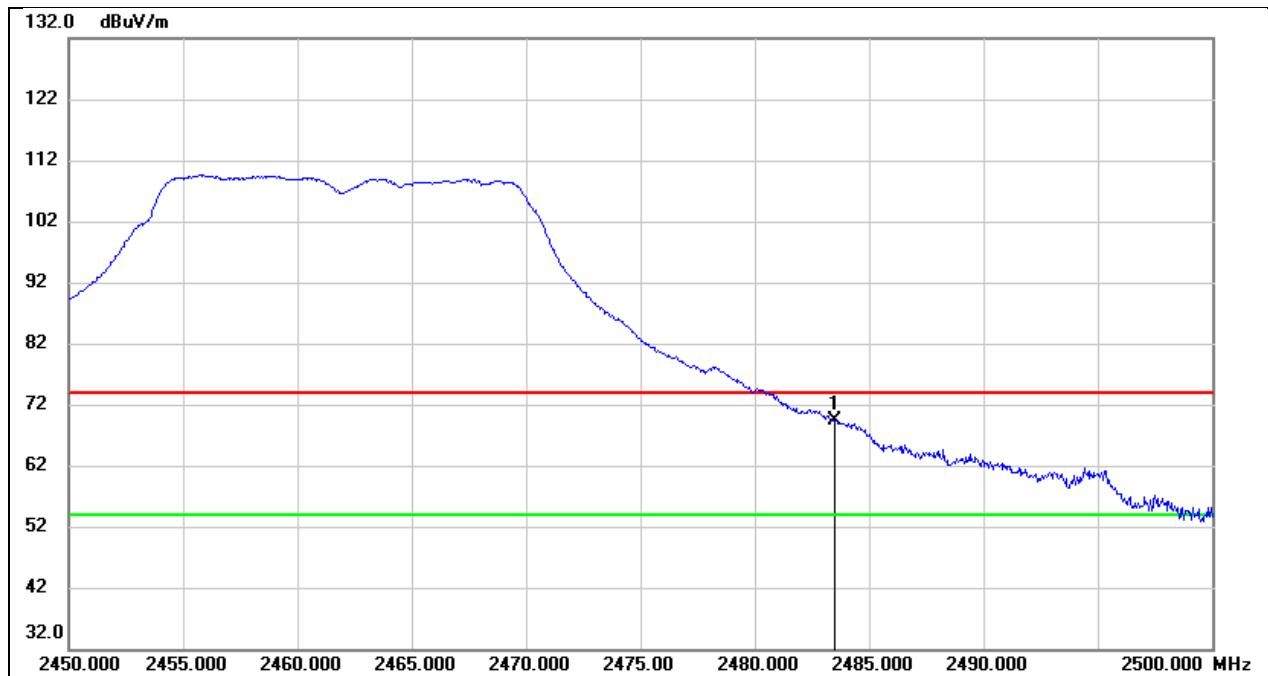
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.640	33.93	32.91	66.84	74.00	-7.16	peak
2	2390.000	31.92	32.92	64.84	74.00	-9.16	peak

Test Mode:	802.11g AV	Frequency(MHz):	2417
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



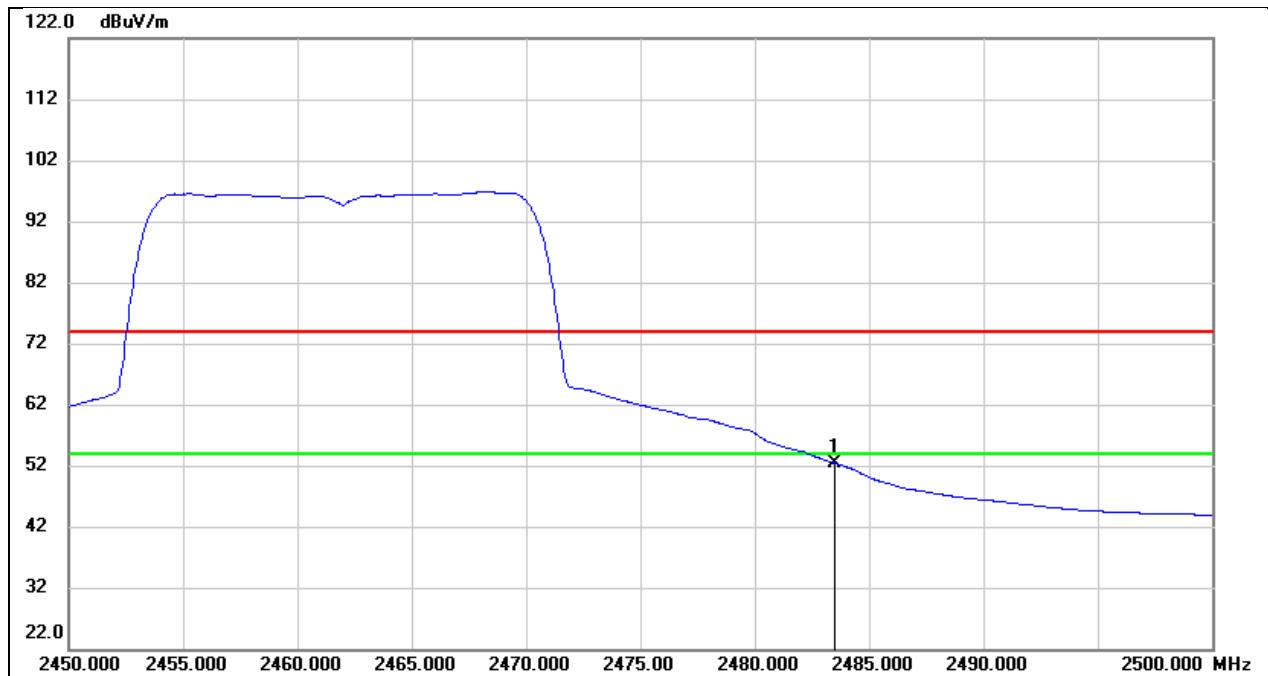
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.640	16.49	32.91	49.40	54.00	-4.60	AVG
2	2390.000	18.22	32.92	51.14	54.00	-2.86	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



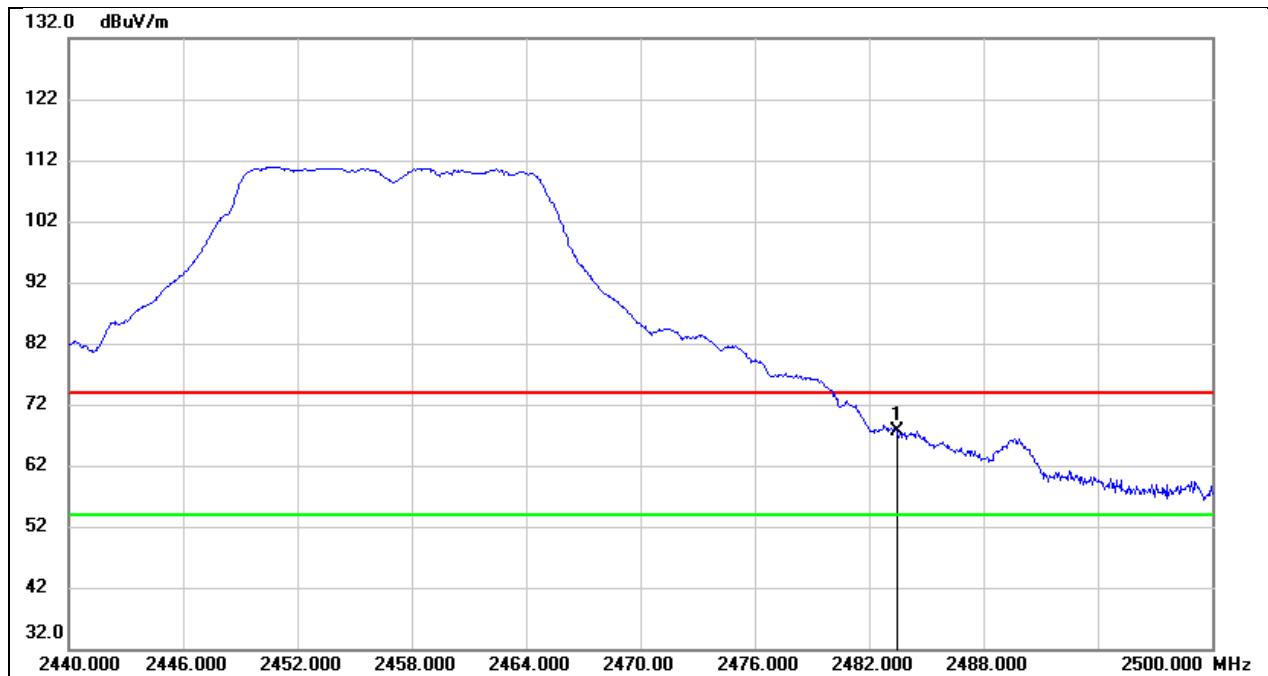
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	36.33	32.94	69.27	74.00	-4.73	peak

Test Mode:	802.11g AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



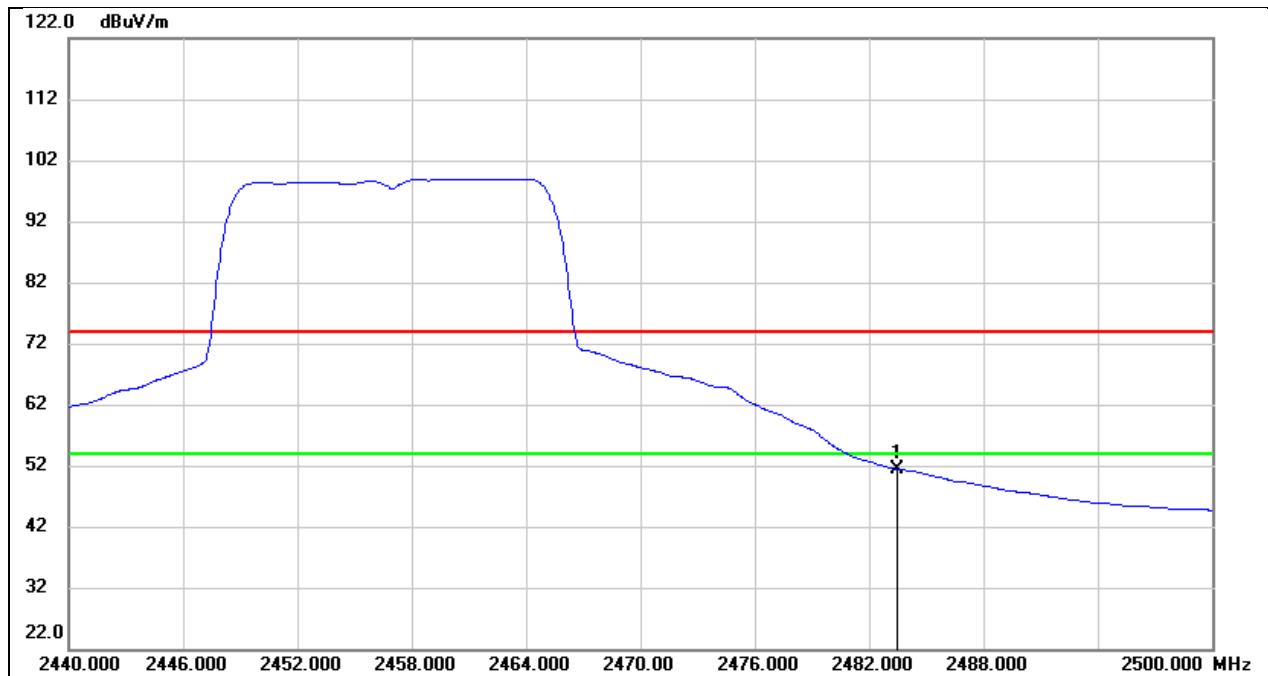
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	19.46	32.94	52.40	54.00	-1.60	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2457
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



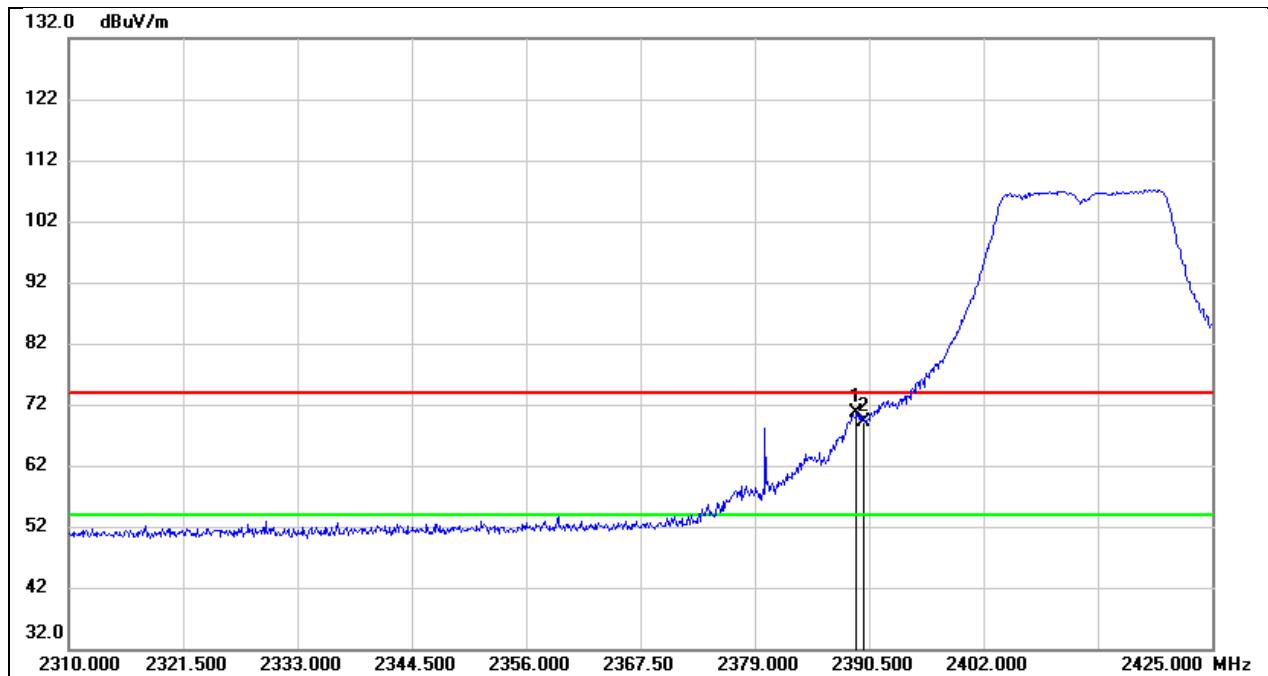
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	34.63	32.94	67.57	74.00	-6.43	peak

Test Mode:	802.11g AV	Frequency(MHz):	2457
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



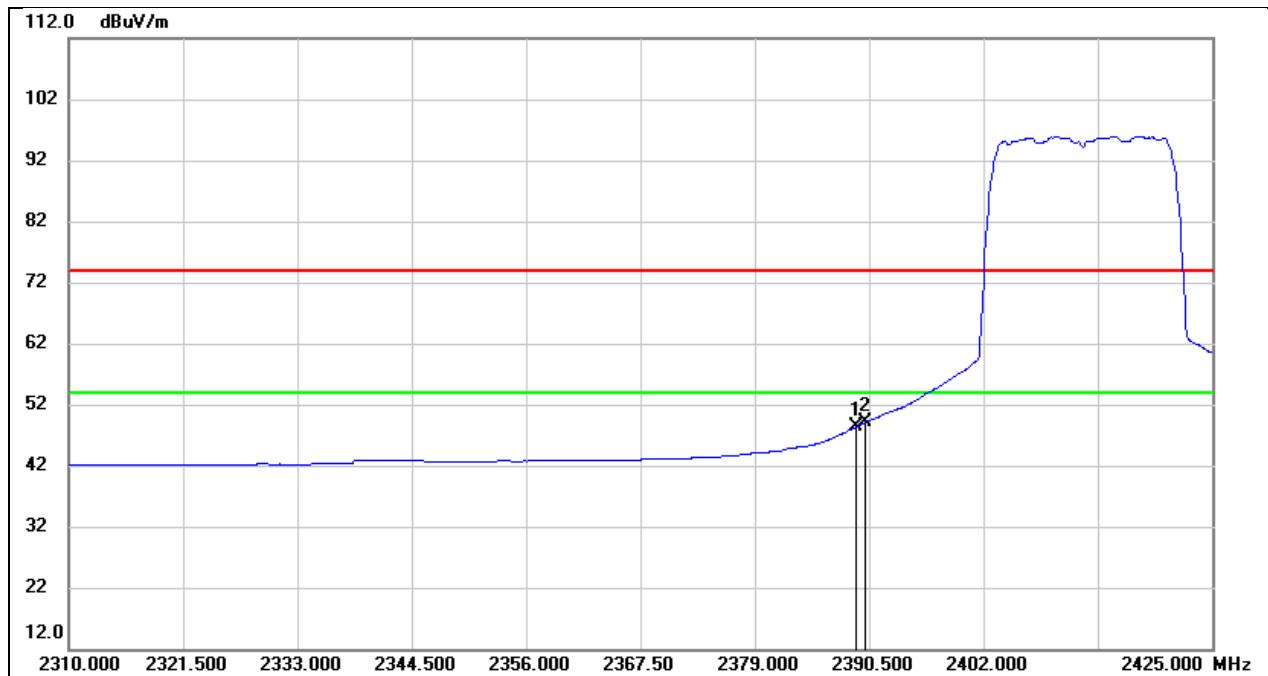
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	18.36	32.94	51.30	54.00	-2.70	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



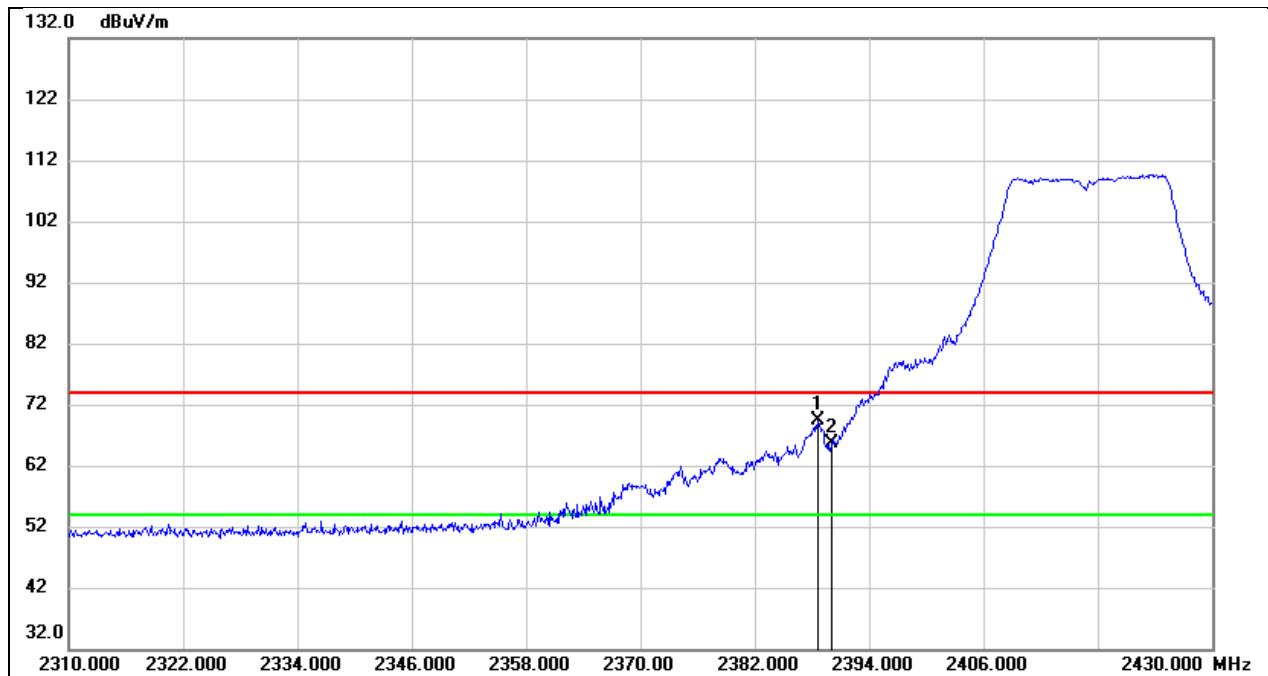
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.235	37.68	32.92	70.60	74.00	-3.40	peak
2	2390.000	36.33	32.92	69.25	74.00	-4.75	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



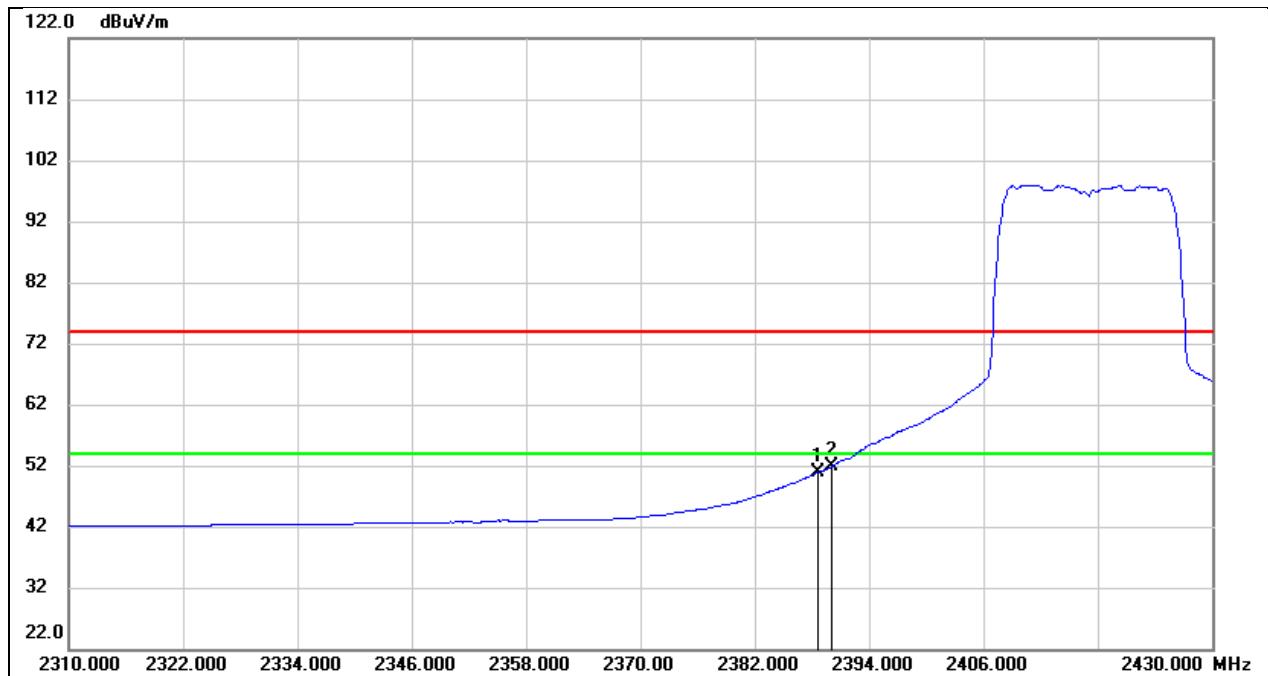
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.235	15.47	32.92	48.39	54.00	-5.61	AVG
2	2390.000	16.19	32.92	49.11	54.00	-4.89	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2417
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



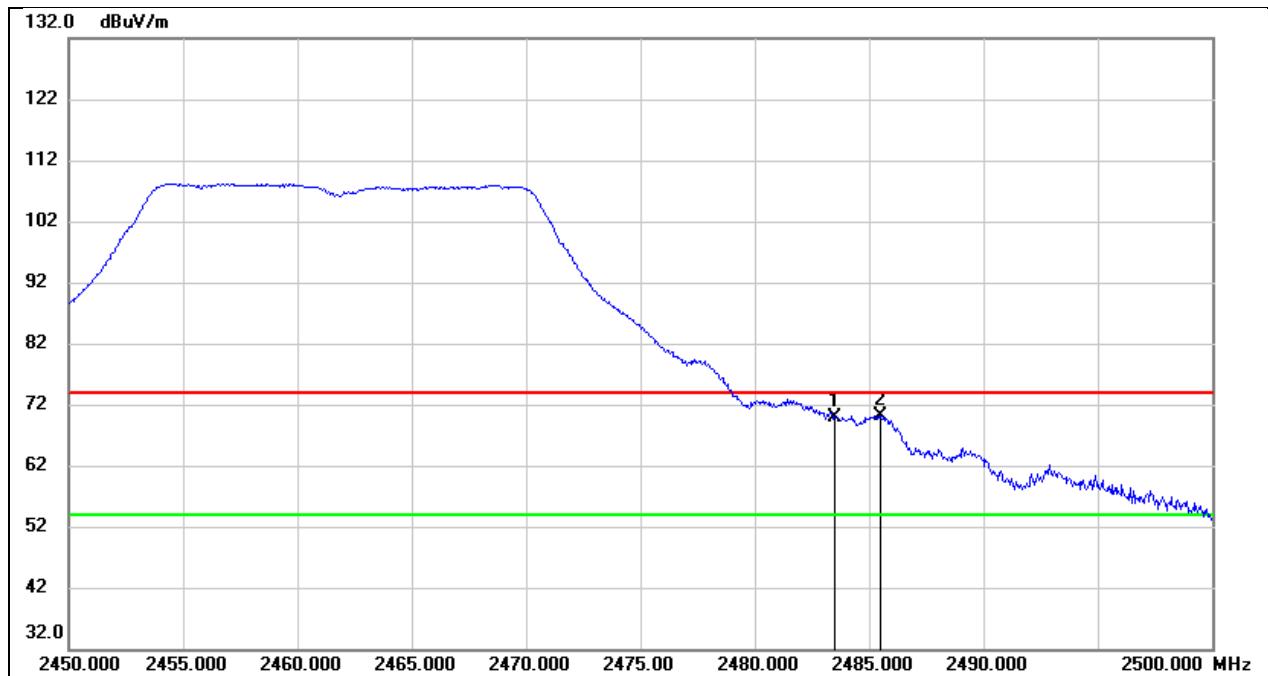
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.600	36.39	32.92	69.31	74.00	-4.69	peak
2	2390.000	32.71	32.92	65.63	74.00	-8.37	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2417
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



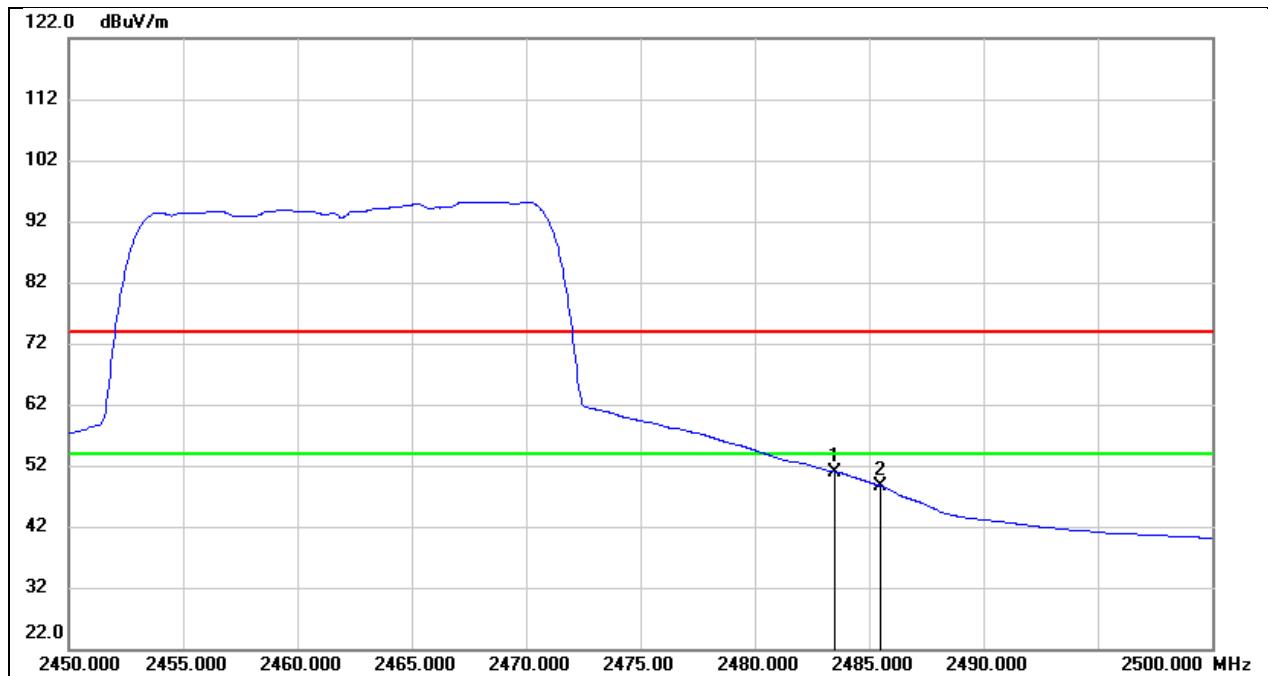
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.600	17.89	32.92	50.81	54.00	-3.19	AVG
2	2390.000	18.89	32.92	51.81	54.00	-2.19	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



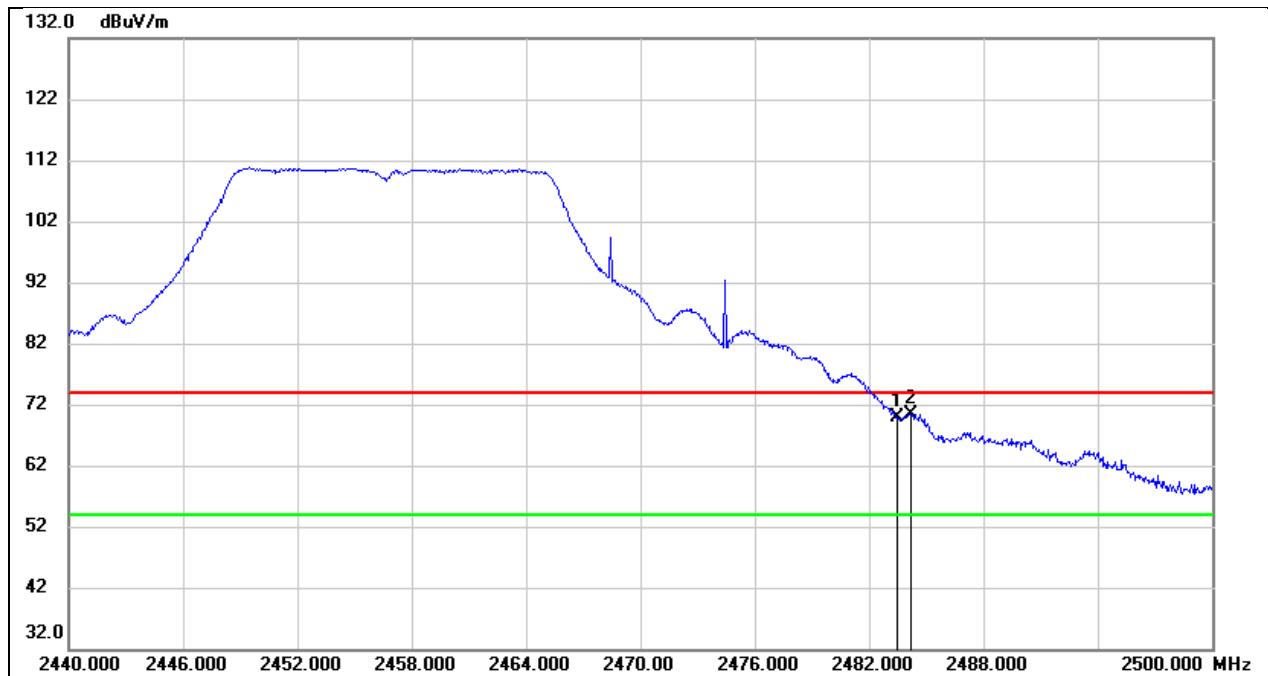
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	36.90	32.94	69.84	74.00	-4.16	peak
2	2485.500	37.26	32.93	70.19	74.00	-3.81	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



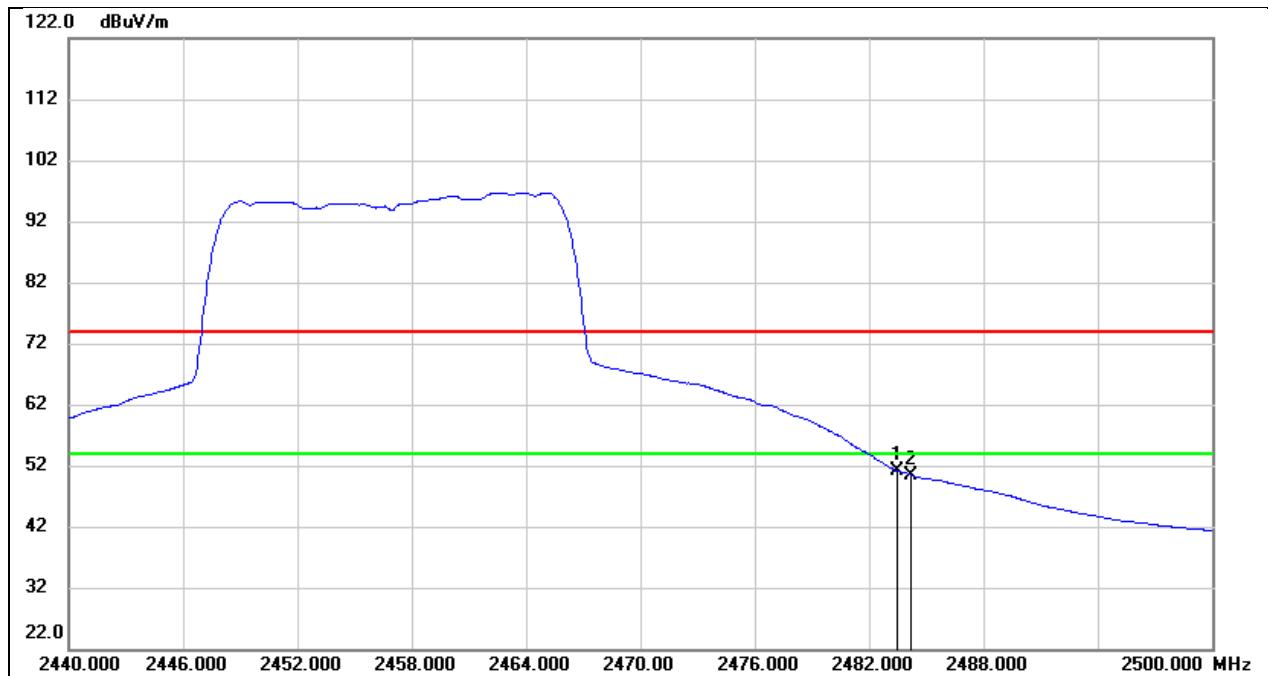
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	17.99	32.94	50.93	54.00	-3.07	AVG
2	2485.500	15.66	32.93	48.59	54.00	-5.41	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2457
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



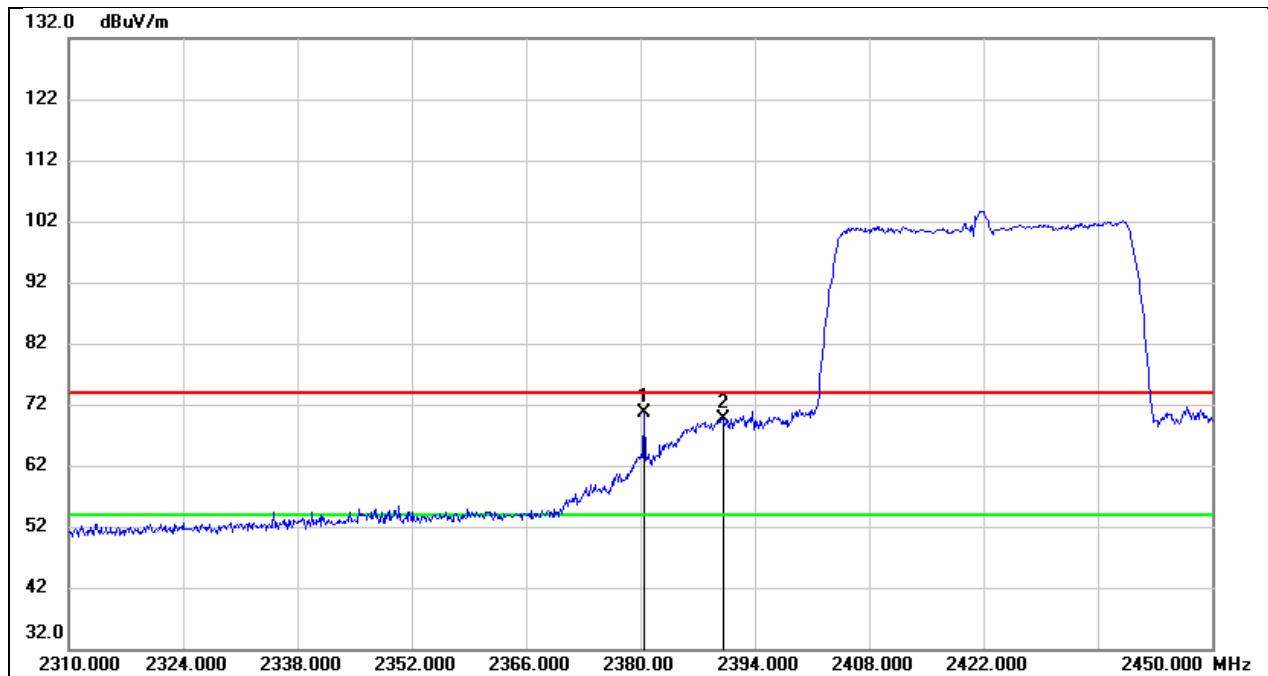
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	36.98	32.94	69.92	74.00	-4.08	peak
2	2484.220	37.54	32.94	70.48	74.00	-3.52	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2457
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



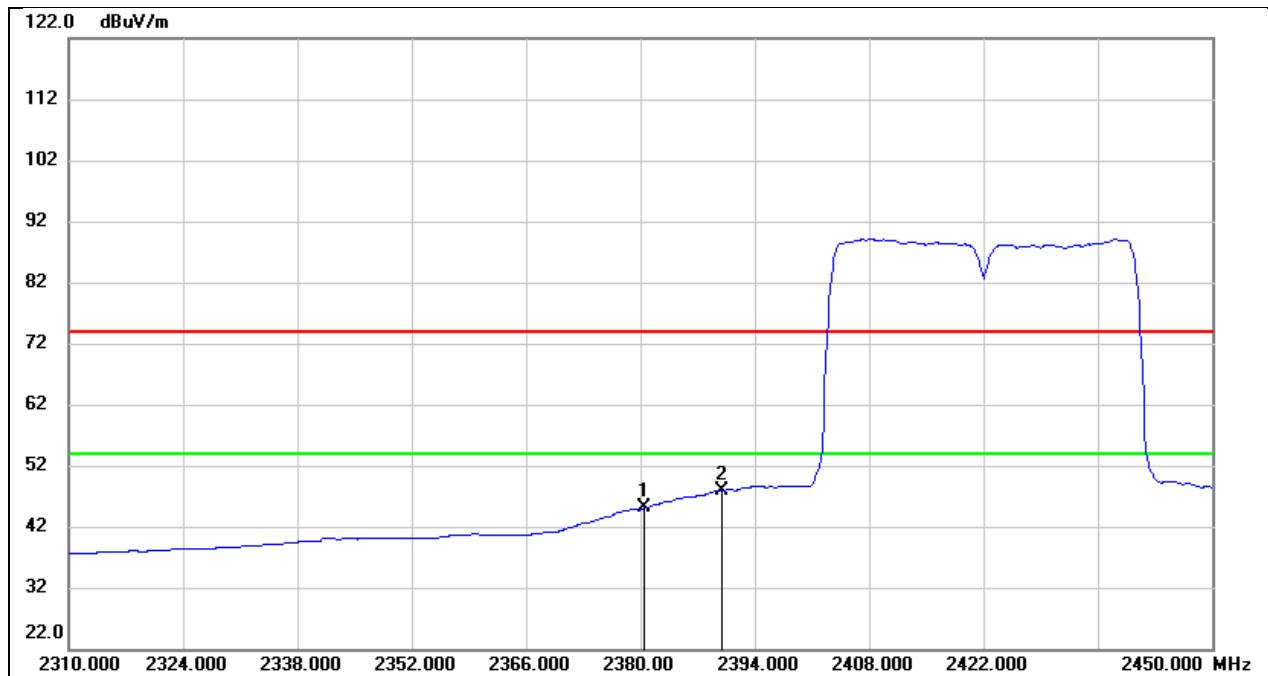
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	18.12	32.94	51.06	54.00	-2.94	AVG
2	2484.220	17.56	32.94	50.50	54.00	-3.50	AVG

Test Mode:	802.11n HT40 PK	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



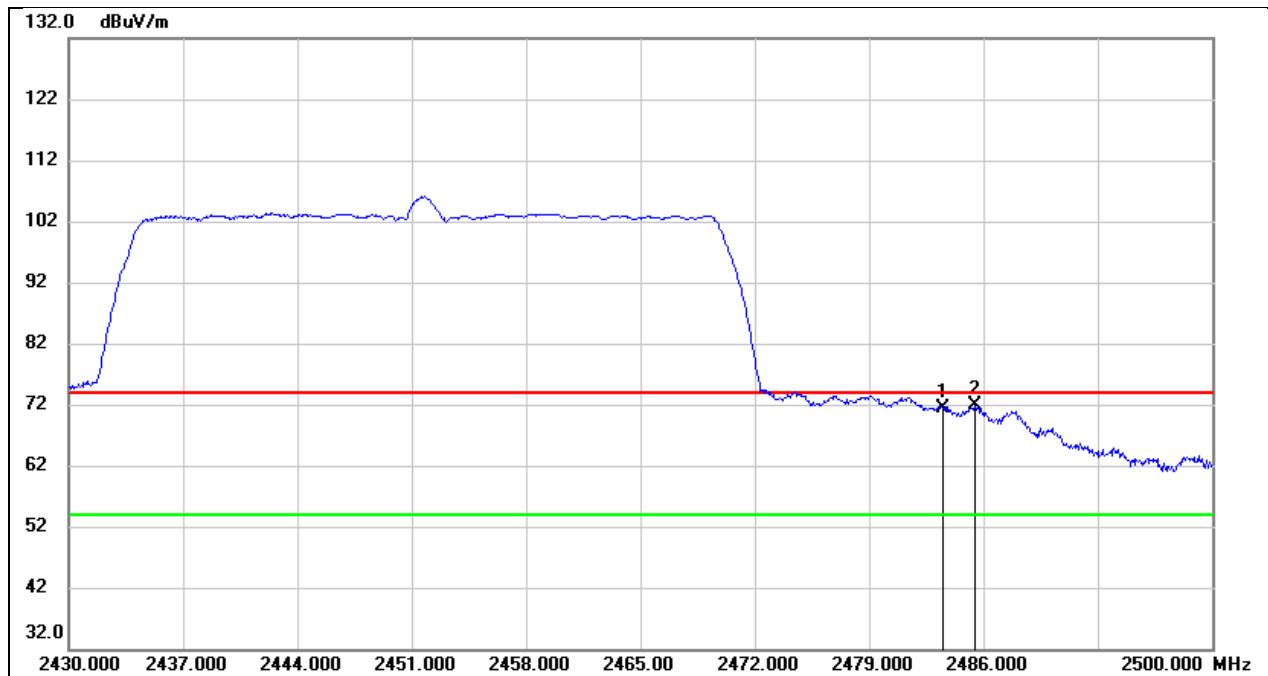
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2380.420	37.81	32.87	70.68	74.00	-3.32	peak
2	2390.000	36.77	32.92	69.69	74.00	-4.31	peak

Test Mode:	802.11n HT40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



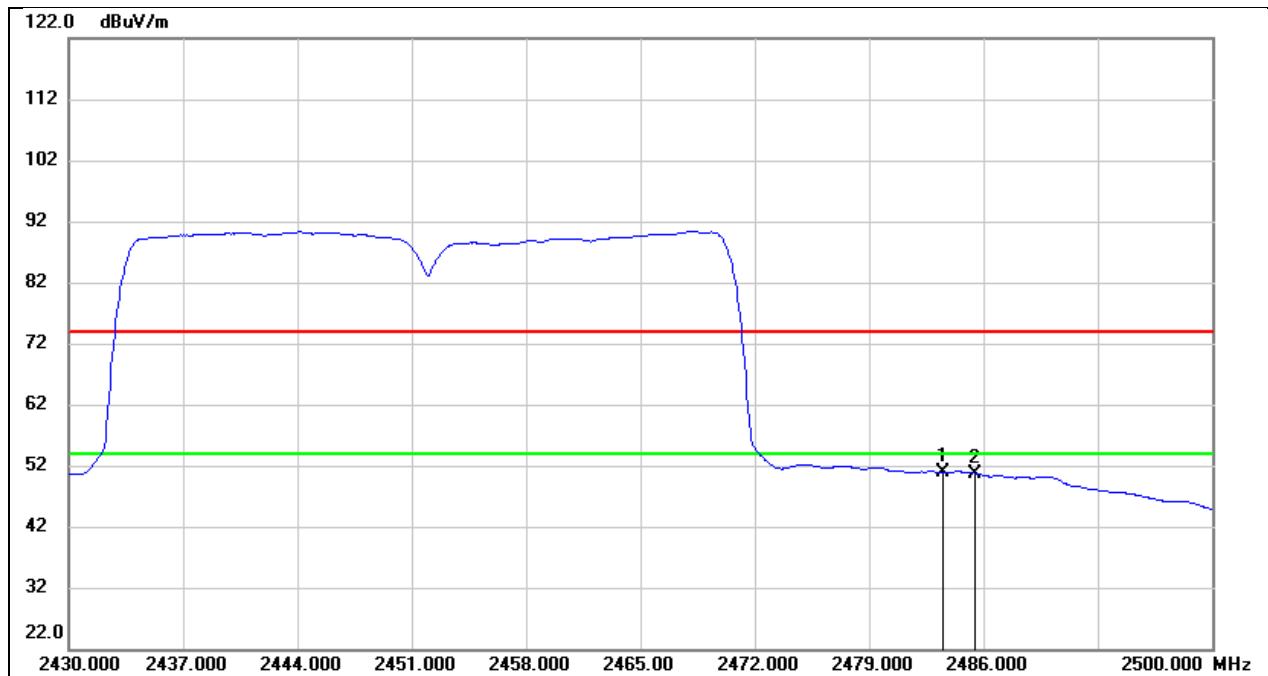
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2380.420	12.14	32.87	45.01	54.00	-8.99	AVG
2	2390.000	15.03	32.92	47.95	54.00	-6.05	AVG

Test Mode:	802.11n HT40 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



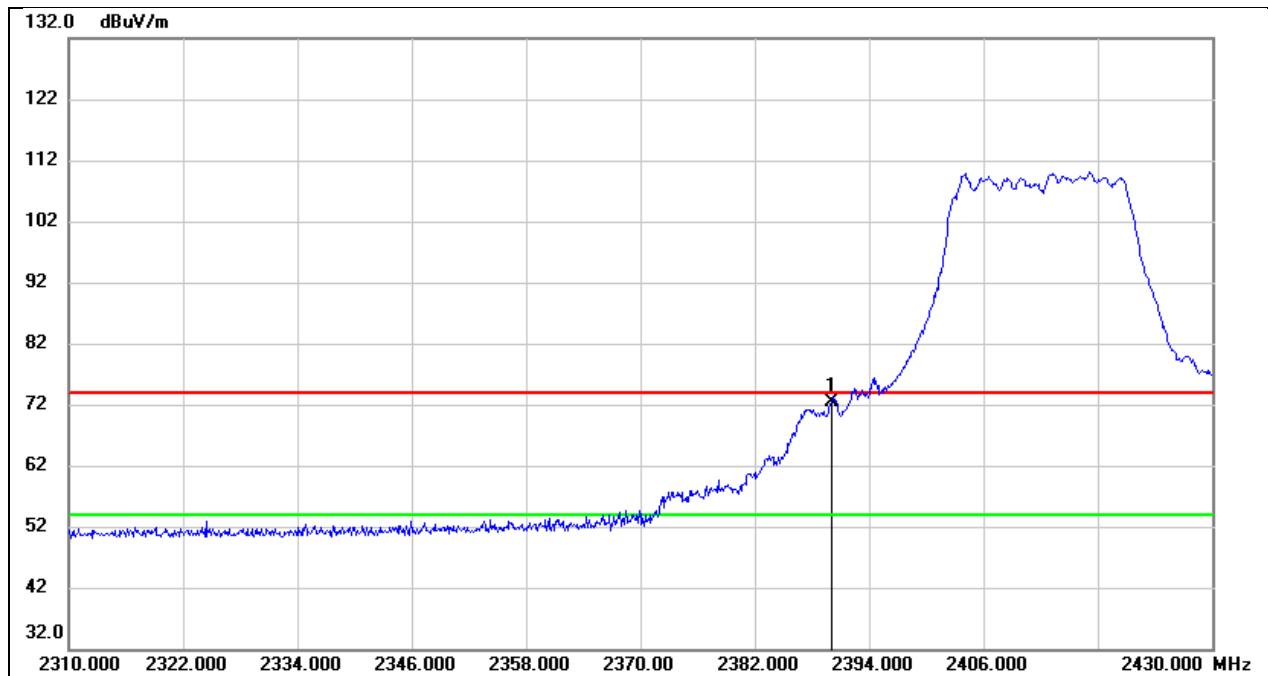
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.45	32.94	71.39	74.00	-2.61	peak
2	2485.510	38.96	32.93	71.89	74.00	-2.11	peak

Test Mode:	802.11n HT40 AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



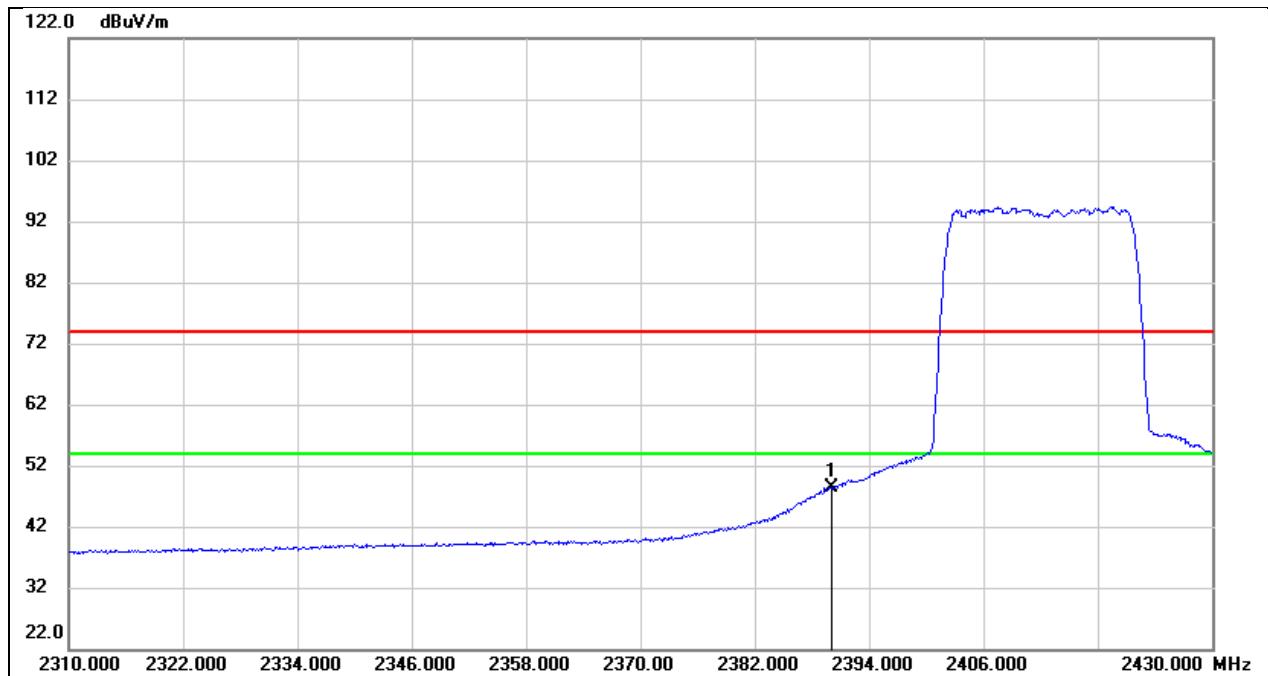
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	17.86	32.94	50.80	54.00	-3.20	AVG
2	2485.510	17.74	32.93	50.67	54.00	-3.33	AVG

Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



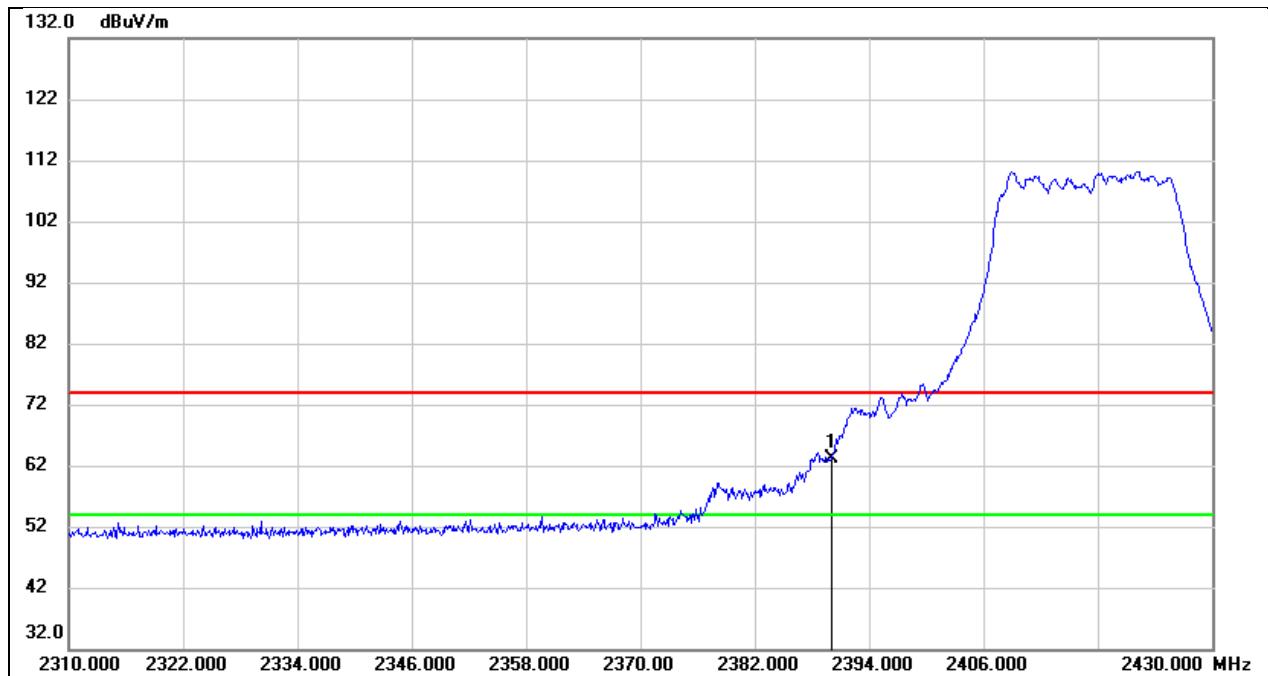
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	39.46	32.92	72.38	74.00	-1.62	peak

Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



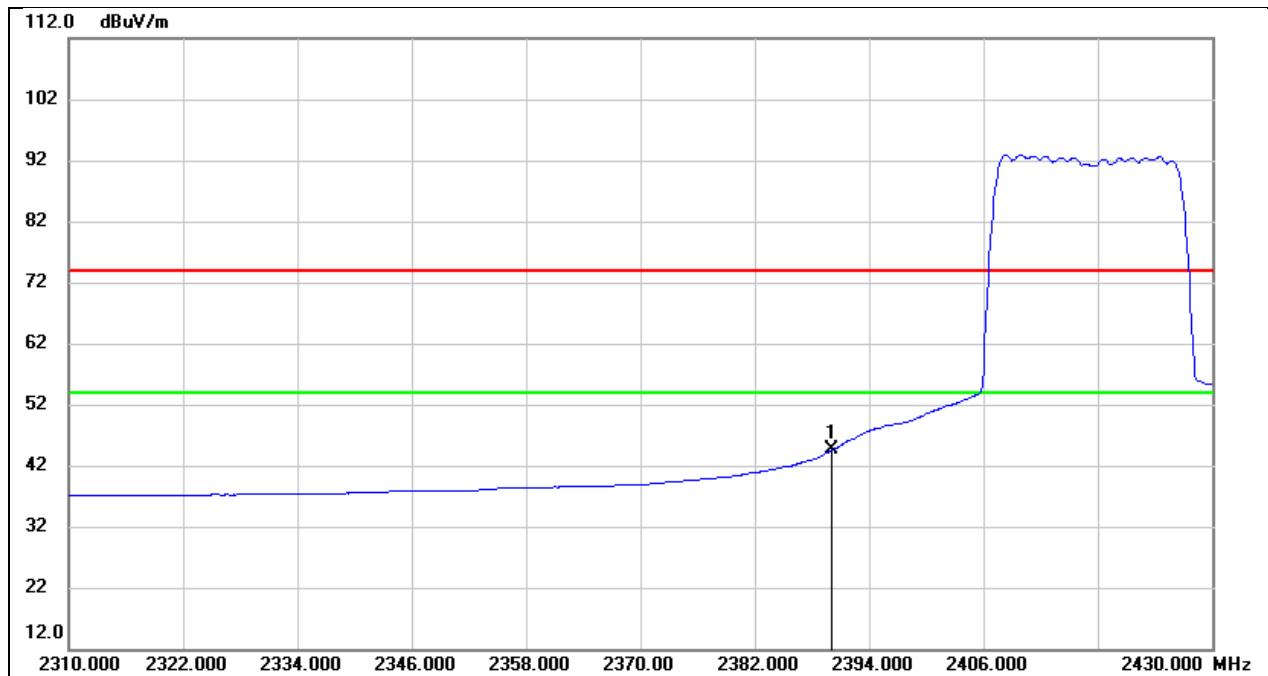
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	15.58	32.92	48.50	54.00	-5.50	AVG

Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2417
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



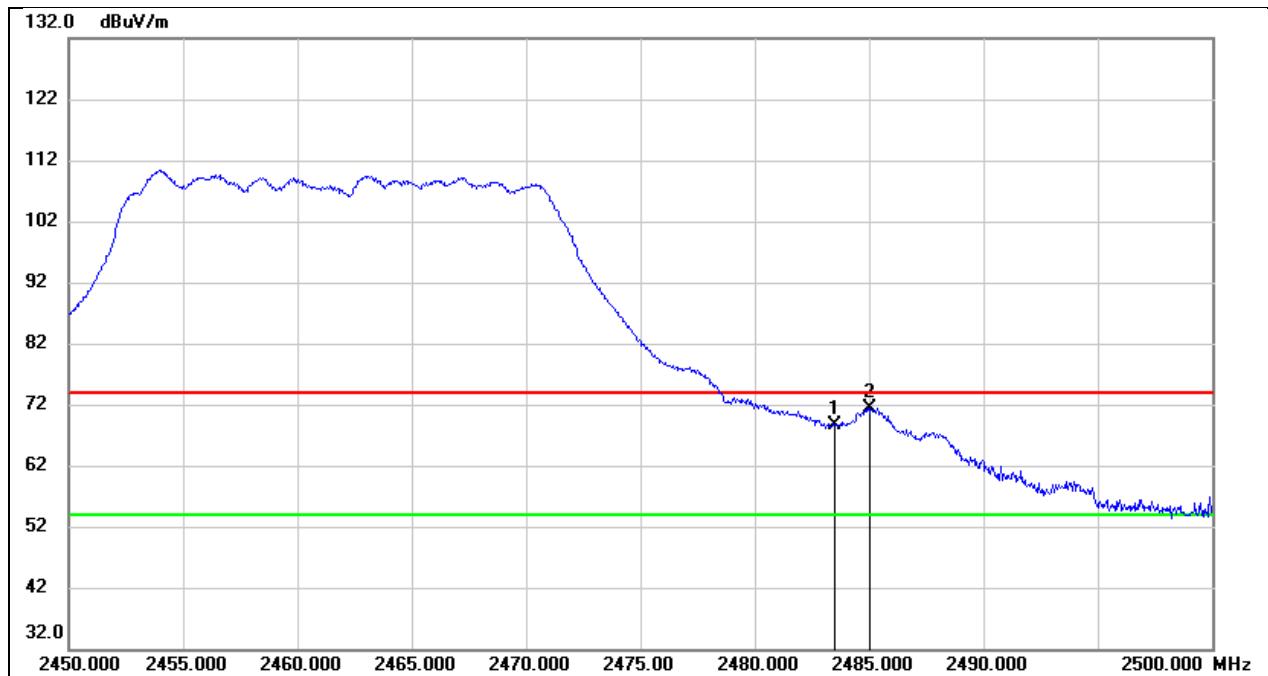
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	30.18	32.92	63.10	74.00	-10.90	peak

Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2417
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



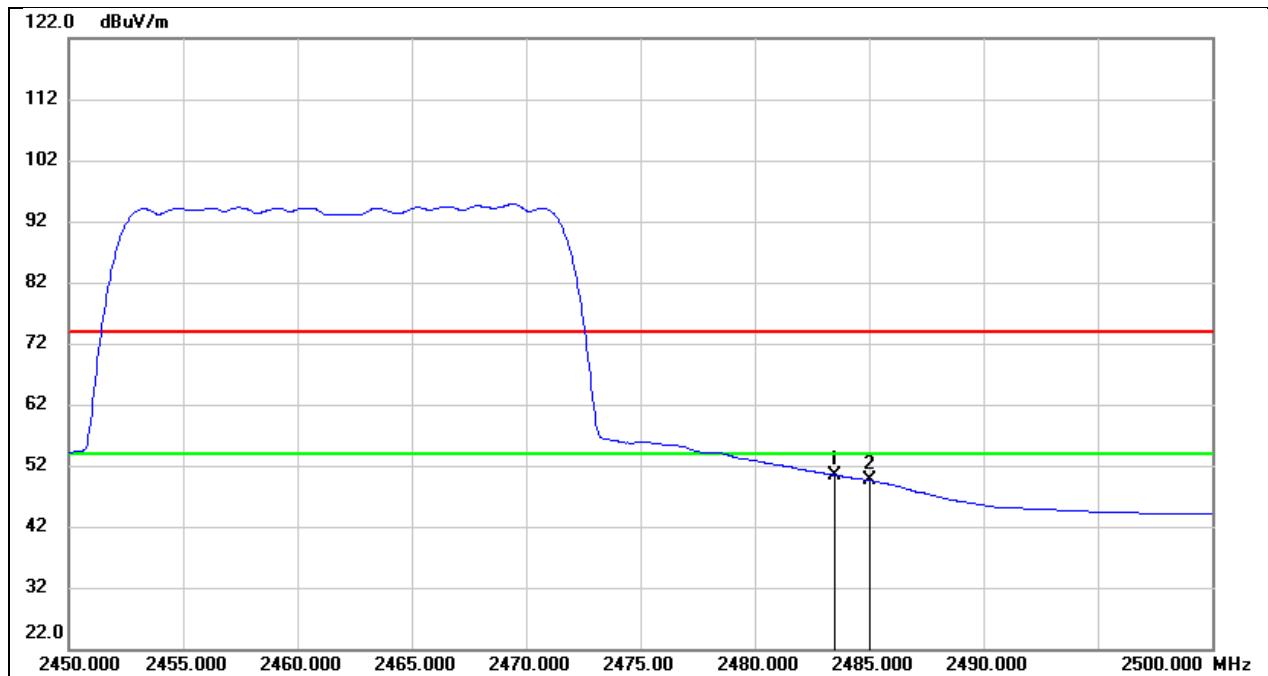
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	11.63	32.92	44.55	54.00	-9.45	AVG

Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



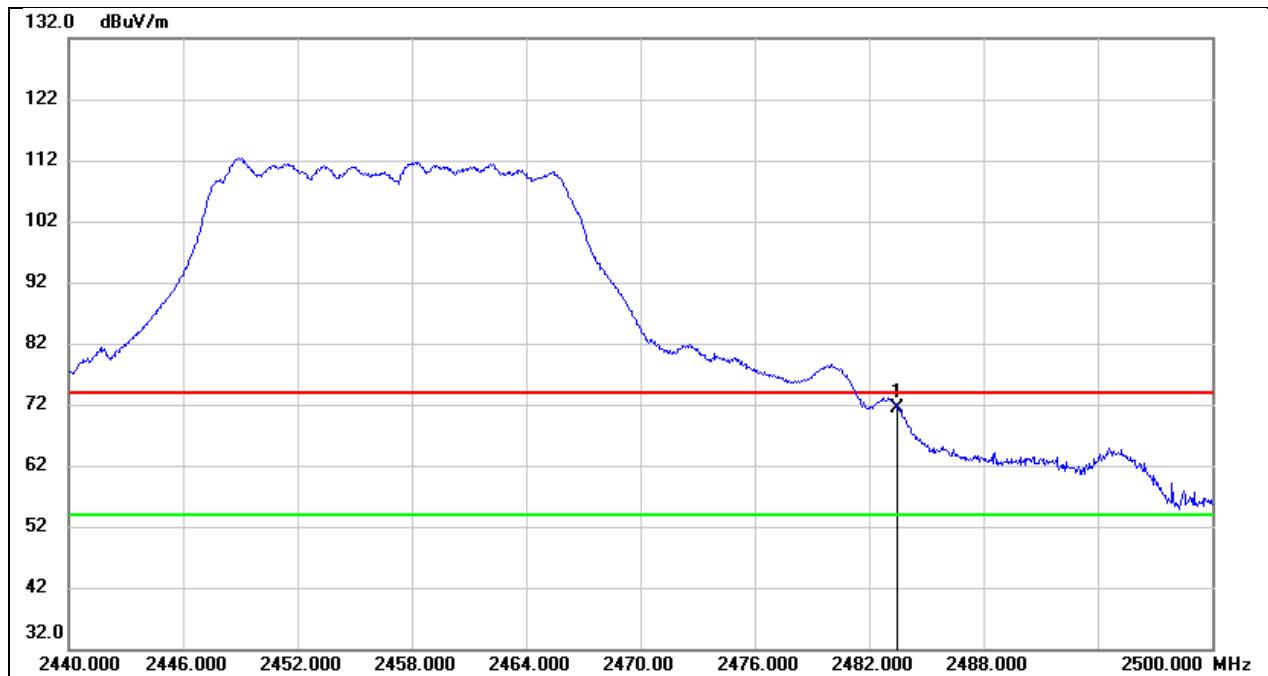
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	35.71	32.94	68.65	74.00	-5.35	peak
2	2485.050	38.37	32.94	71.31	74.00	-2.69	peak

Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



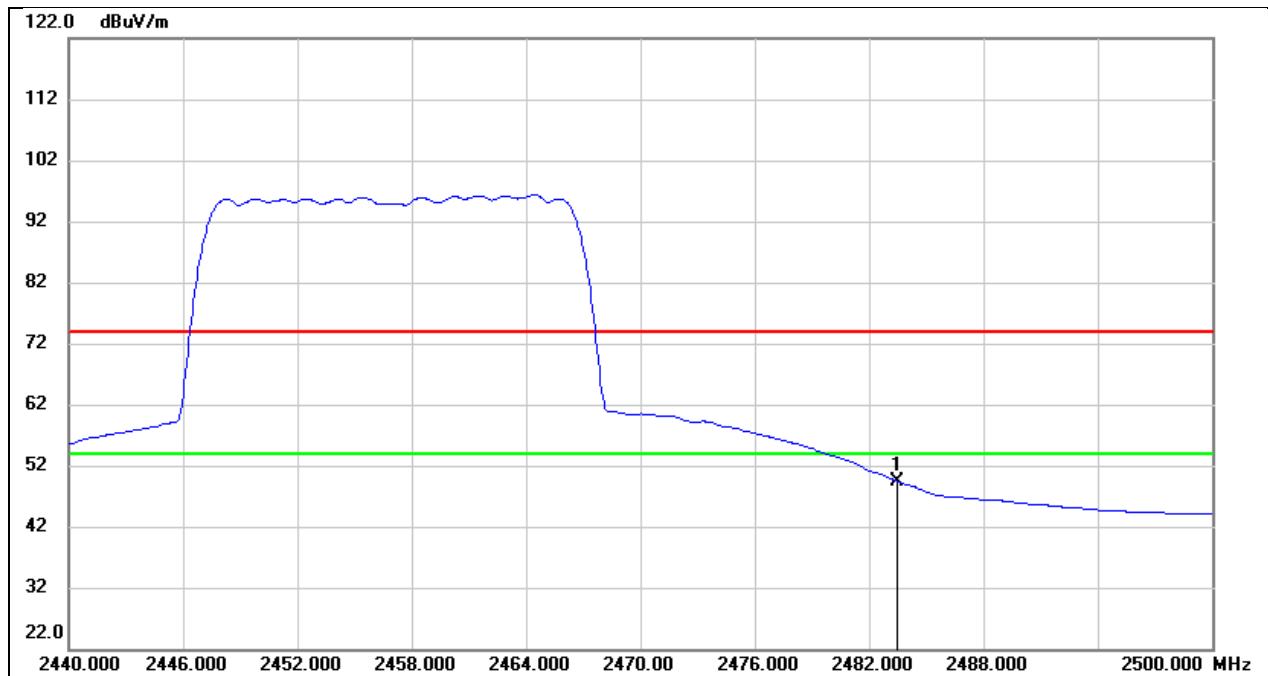
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	17.52	32.94	50.46	54.00	-3.54	AVG
2	2485.050	16.65	32.94	49.59	54.00	-4.41	AVG

Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2457
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



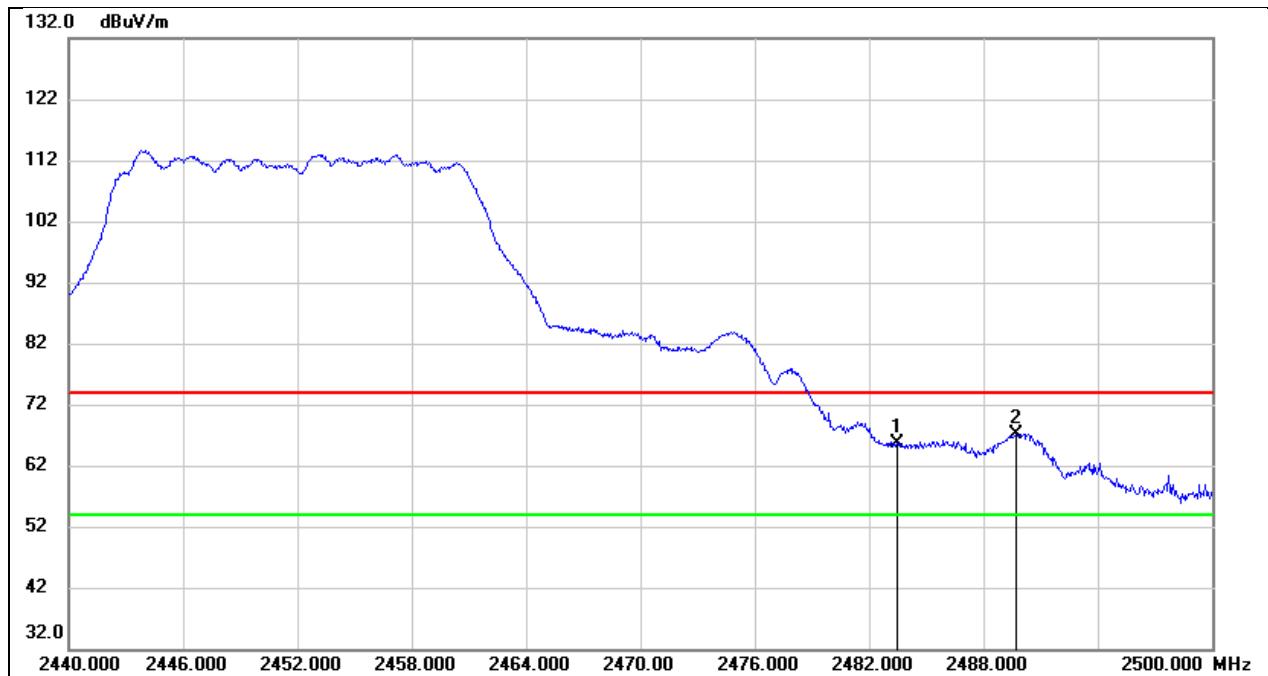
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.50	32.94	71.44	74.00	-2.56	peak

Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2457
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



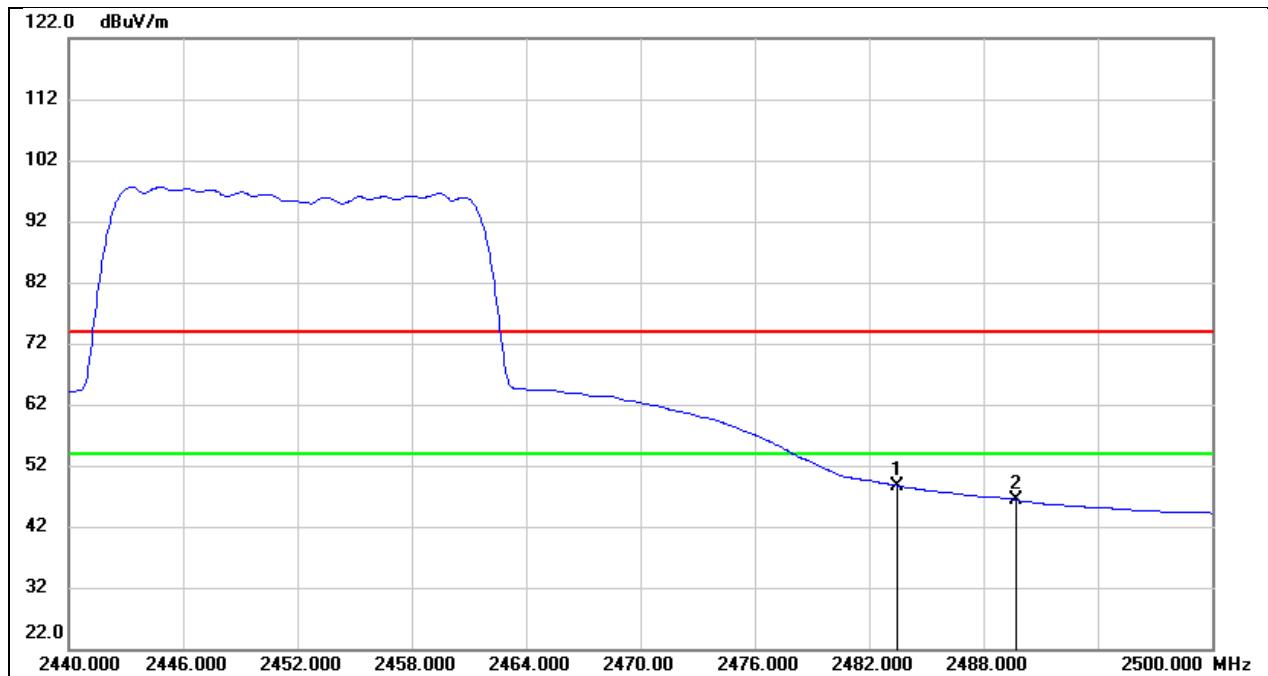
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.38	32.94	49.32	54.00	-4.68	AVG

Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



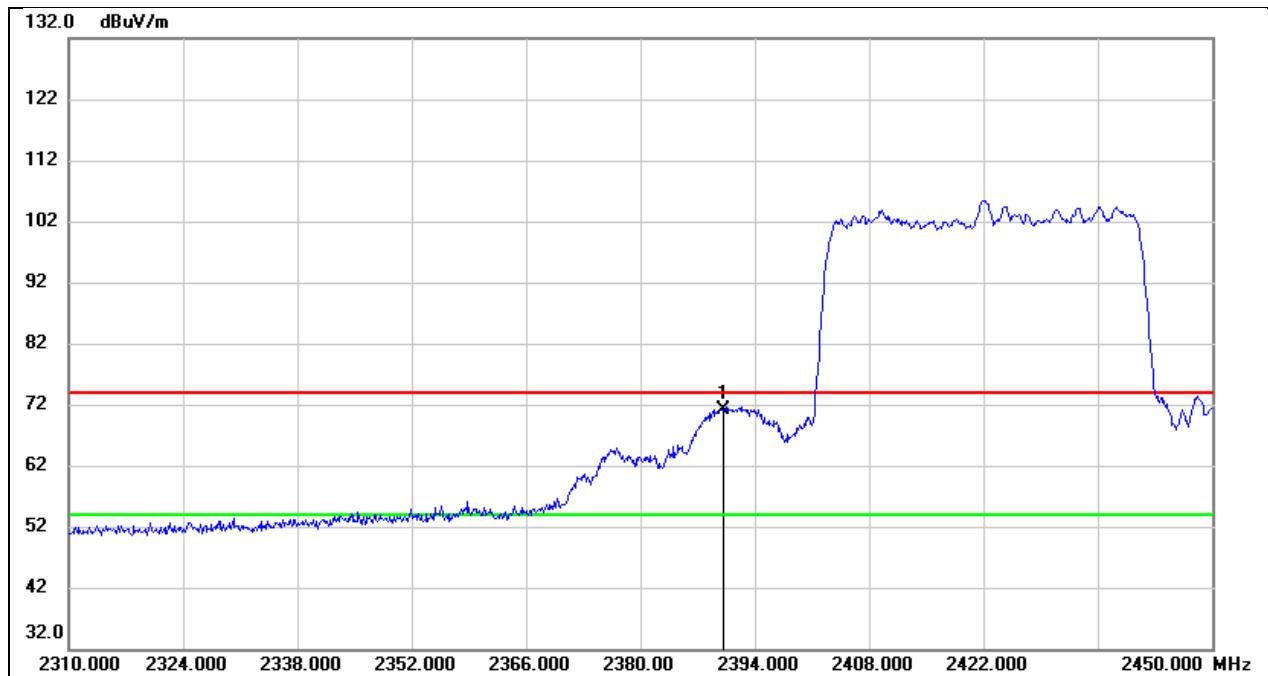
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	32.68	32.94	65.62	74.00	-8.38	peak
2	2489.740	34.30	32.93	67.23	74.00	-6.77	peak

Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



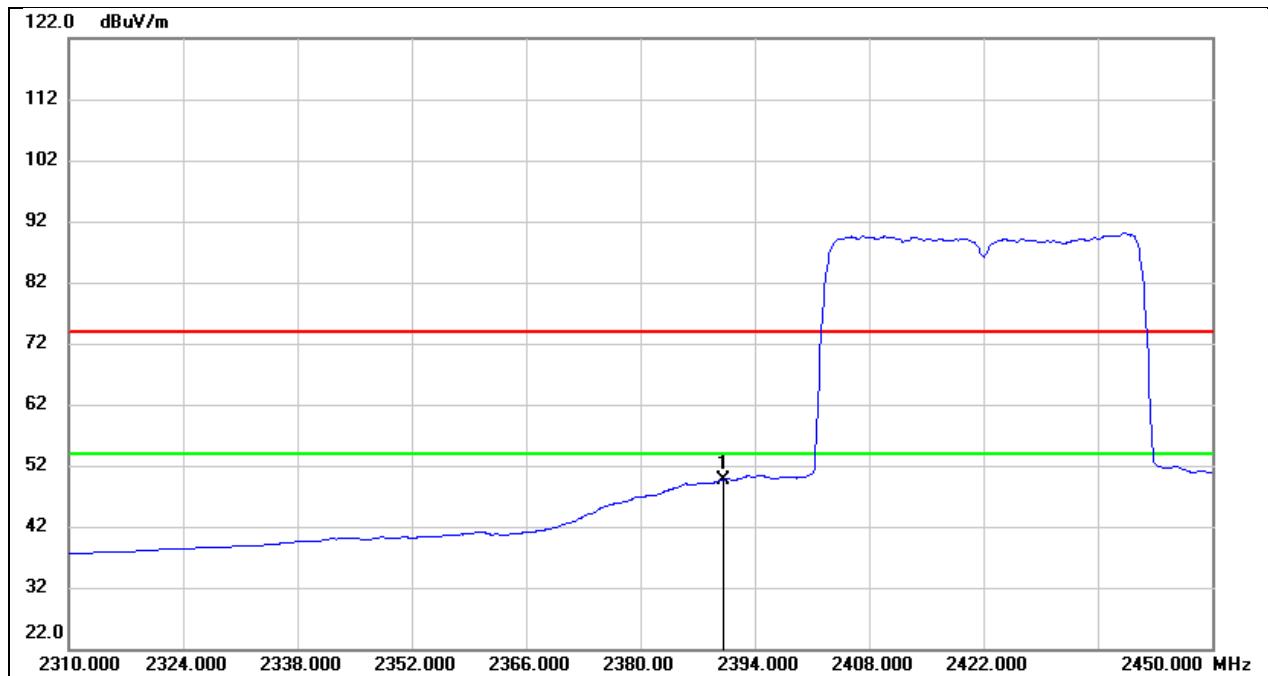
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.76	32.94	48.70	54.00	-5.30	AVG
2	2489.740	13.49	32.93	46.42	54.00	-7.58	AVG

Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



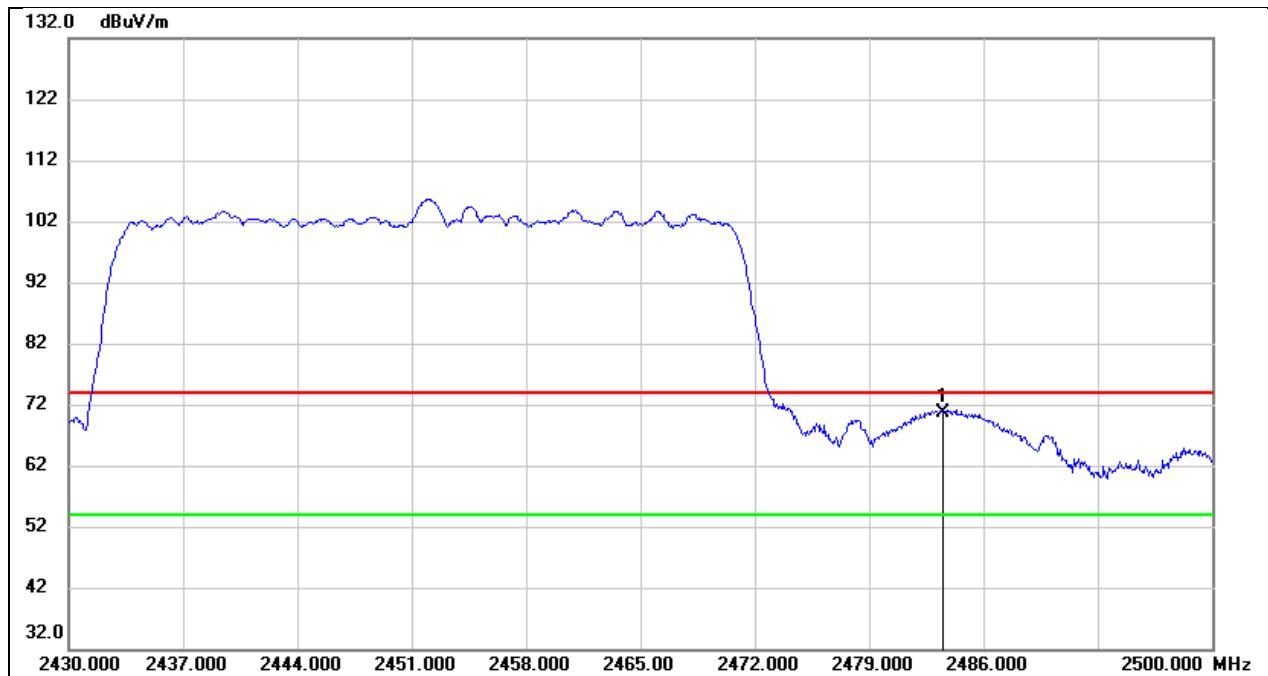
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	38.26	32.92	71.18	74.00	-2.82	peak

Test Mode:	802.11ax HE40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



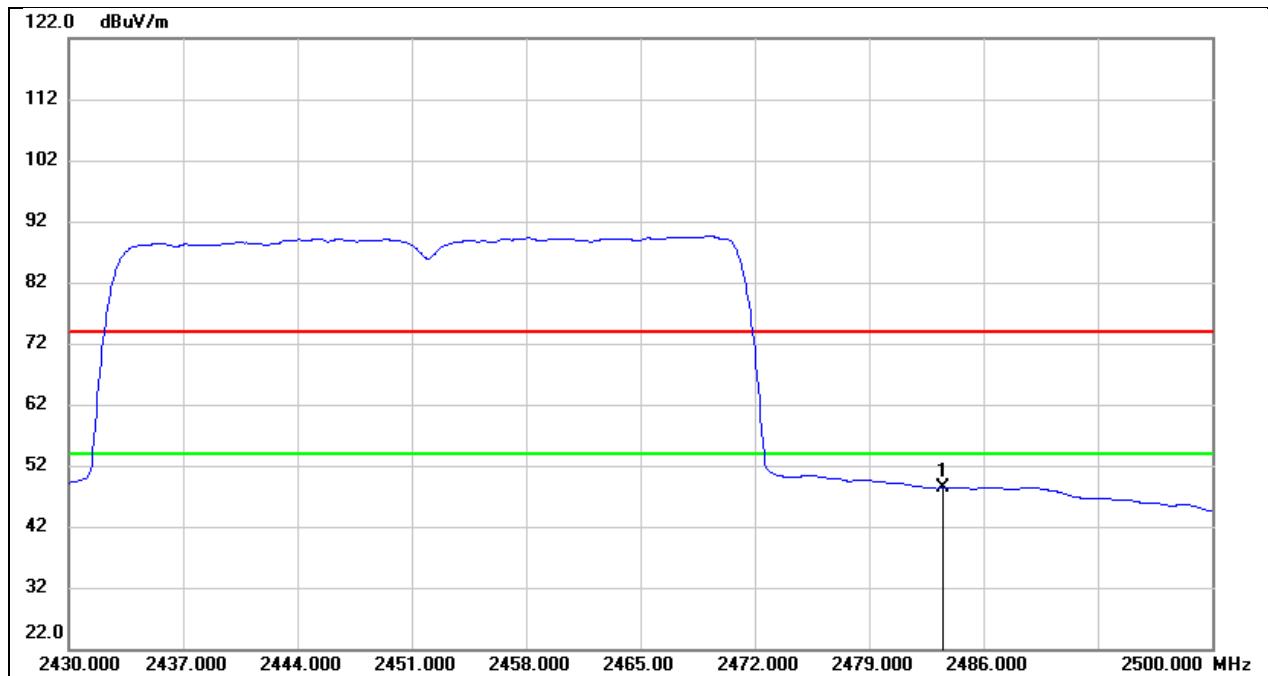
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	16.72	32.92	49.64	54.00	-4.36	AVG

Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	37.59	32.94	70.53	74.00	-3.47	peak

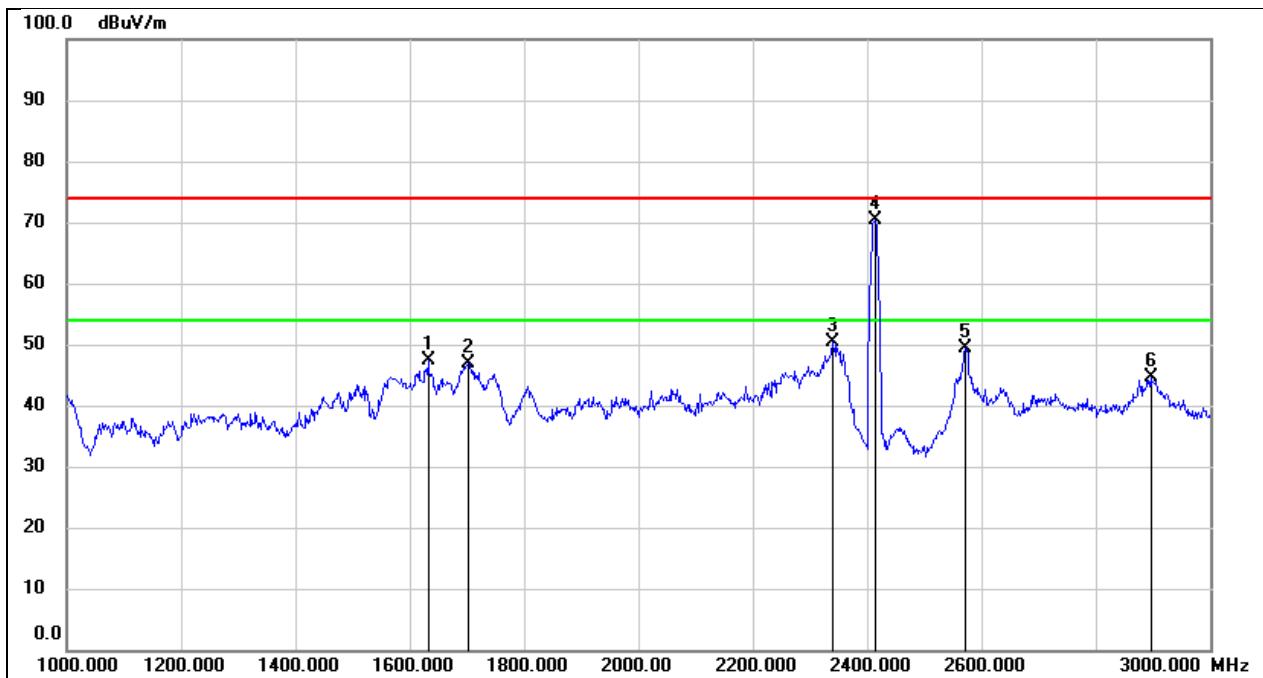
Test Mode:	802.11ax HE40 AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.36	32.94	48.30	54.00	-5.70	AVG

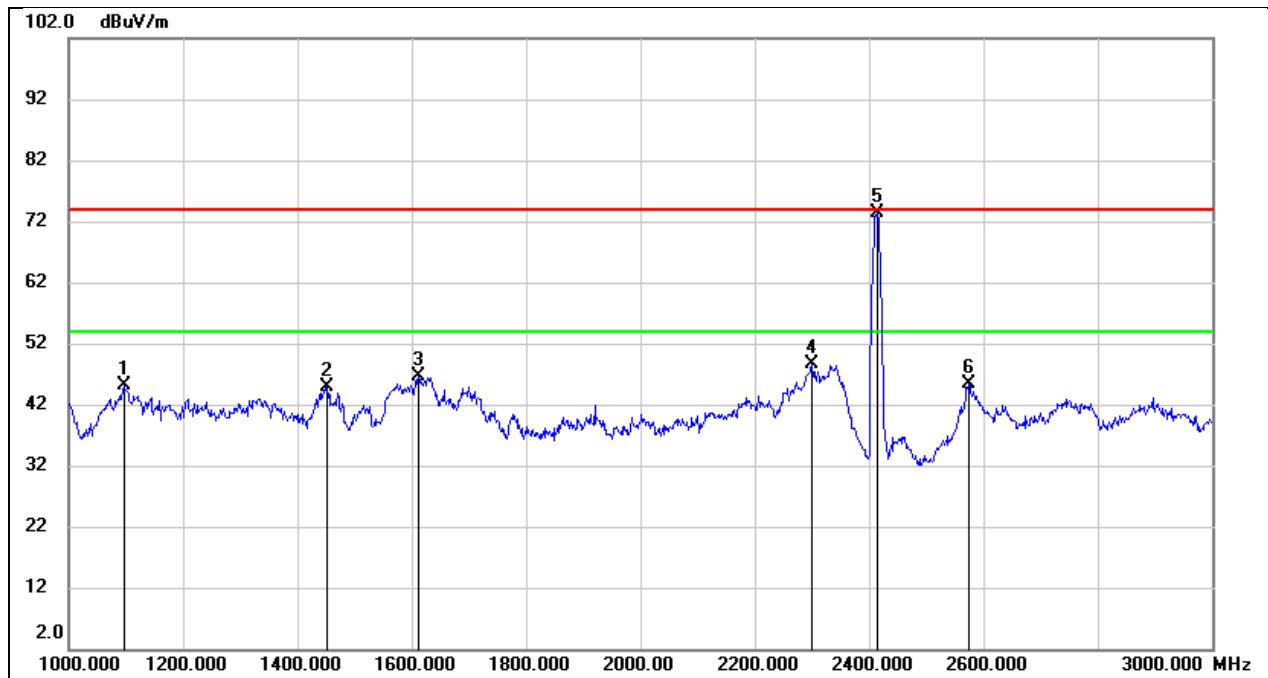
8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



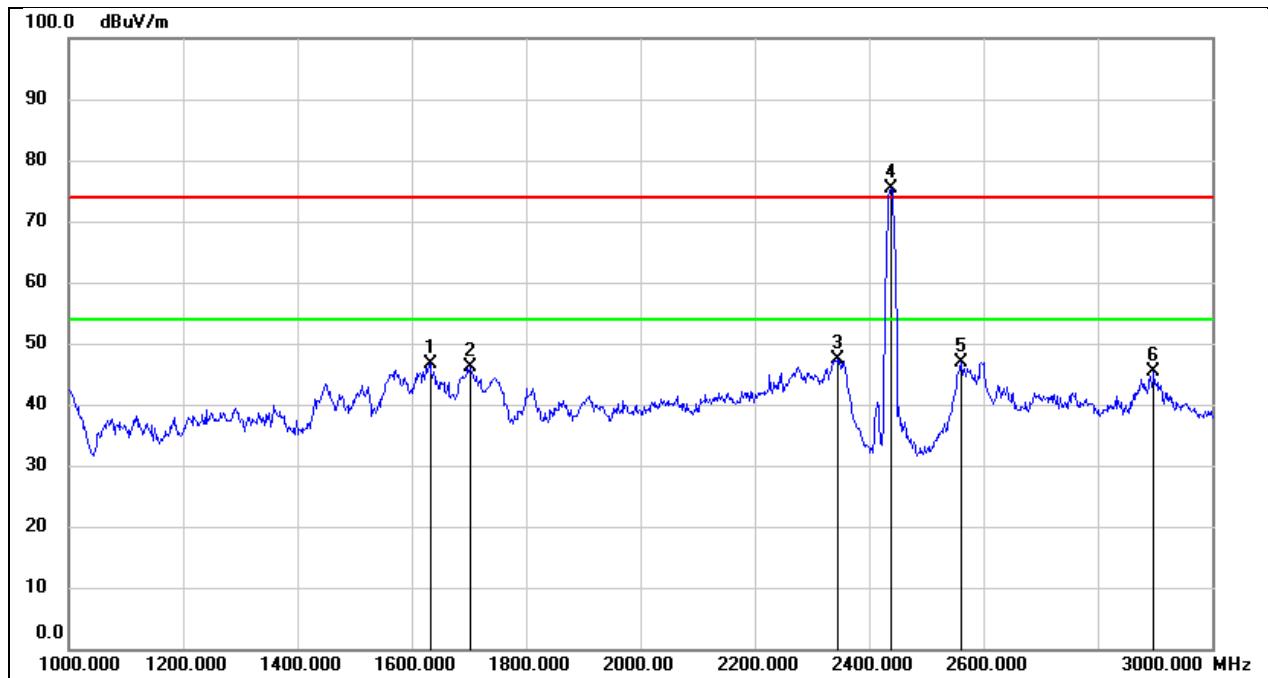
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1632.000	58.37	-11.02	47.35	74.00	-26.65	peak
2	1702.000	57.69	-10.70	46.99	74.00	-27.01	peak
3	2340.000	58.33	-7.85	50.48	74.00	-23.52	peak
4	2412.000	77.87	-7.41	70.46	/	/	fundamental
5	2572.000	56.92	-7.63	49.29	74.00	-24.71	peak
6	2896.000	51.04	-6.36	44.68	74.00	-29.32	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



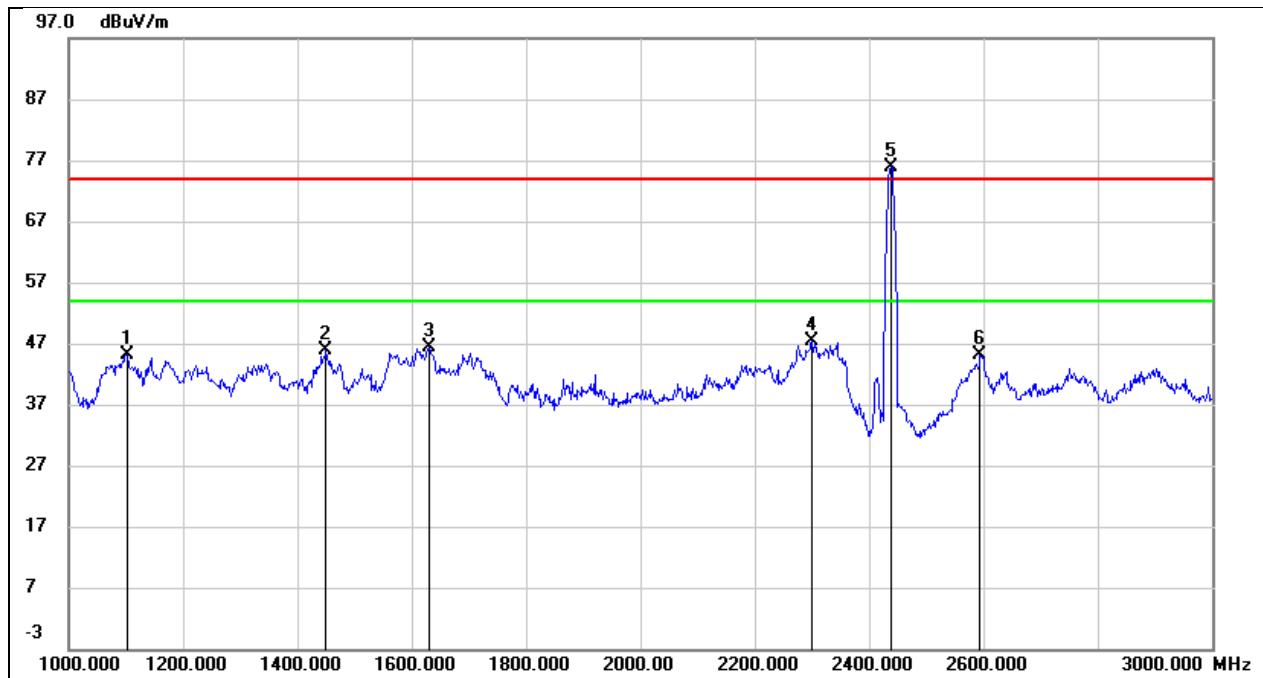
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1096.000	58.79	-13.56	45.23	74.00	-28.77	peak
2	1452.000	56.94	-12.06	44.88	74.00	-29.12	peak
3	1612.000	57.68	-11.11	46.57	74.00	-27.43	peak
4	2300.000	56.76	-8.14	48.62	74.00	-25.38	peak
5	2412.000	80.78	-7.41	73.37	/	/	fundamental
6	2574.000	52.93	-7.64	45.29	74.00	-28.71	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



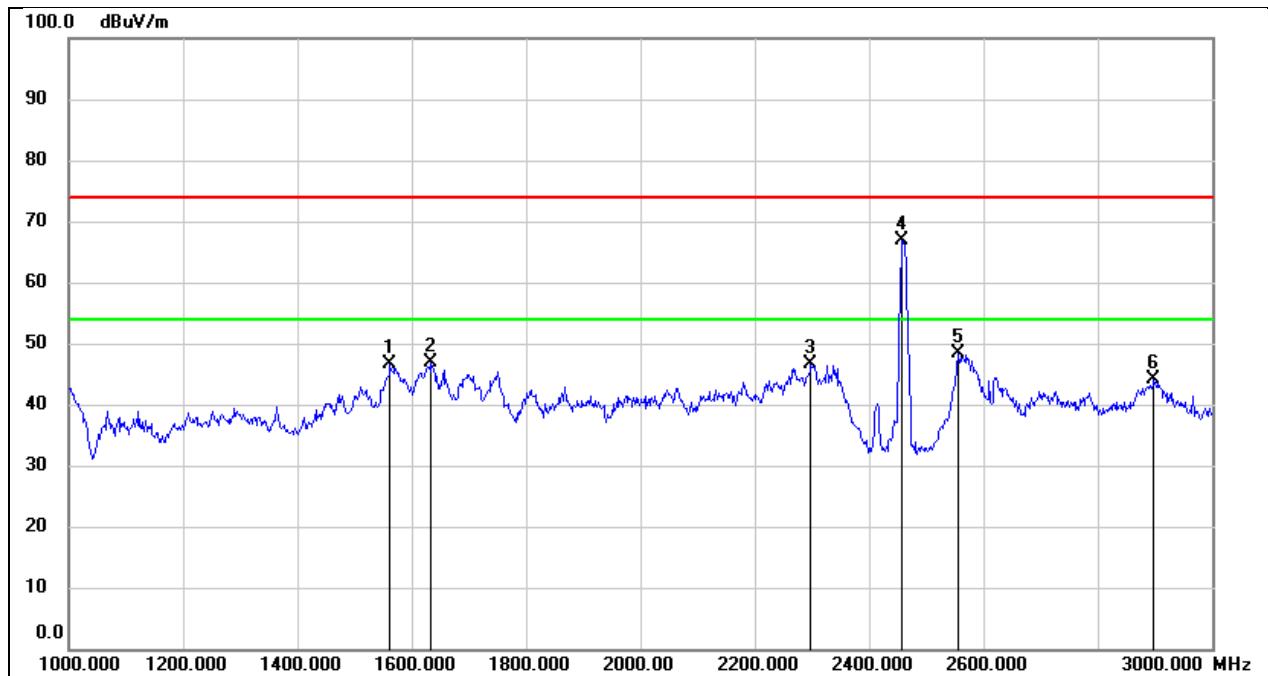
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1632.000	57.74	-11.02	46.72	74.00	-27.28	peak
2	1702.000	56.75	-10.70	46.05	74.00	-27.95	peak
3	2344.000	55.31	-7.82	47.49	74.00	-26.51	peak
4	2437.000	82.81	-7.43	75.38	/	/	fundamental
5	2562.000	54.58	-7.62	46.96	74.00	-27.04	peak
6	2898.000	51.67	-6.35	45.32	74.00	-28.68	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



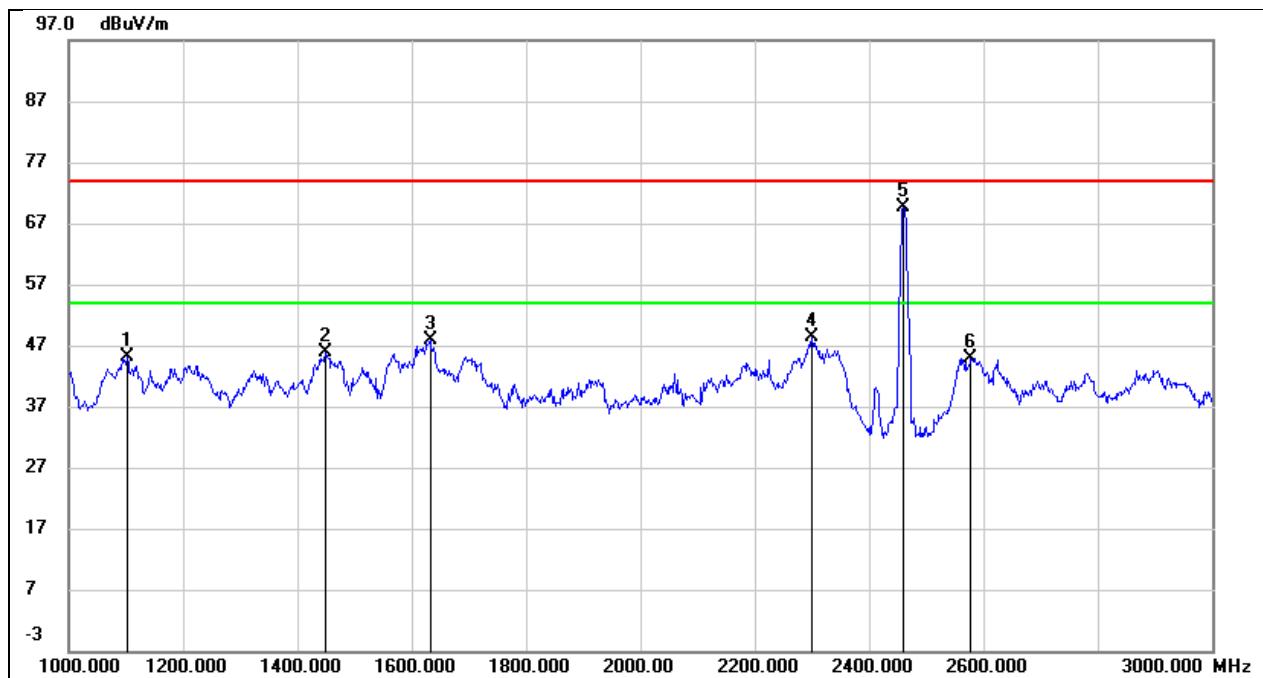
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1102.000	58.55	-13.50	45.05	74.00	-28.95	peak
2	1450.000	58.01	-12.07	45.94	74.00	-28.06	peak
3	1630.000	57.49	-11.03	46.46	74.00	-27.54	peak
4	2300.000	55.52	-8.14	47.38	74.00	-26.62	peak
5	2437.000	83.25	-7.43	75.82	/	/	fundamental
6	2594.000	52.67	-7.66	45.01	74.00	-28.99	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1562.000	58.03	-11.39	46.64	74.00	-27.36	peak
2	1634.000	57.88	-11.01	46.87	74.00	-27.13	peak
3	2298.000	54.68	-8.16	46.52	74.00	-27.48	peak
4	2462.000	74.24	-7.46	66.78	/	/	fundamental
5	2556.000	55.99	-7.60	48.39	74.00	-25.61	peak
6	2898.000	50.38	-6.35	44.03	74.00	-29.97	peak

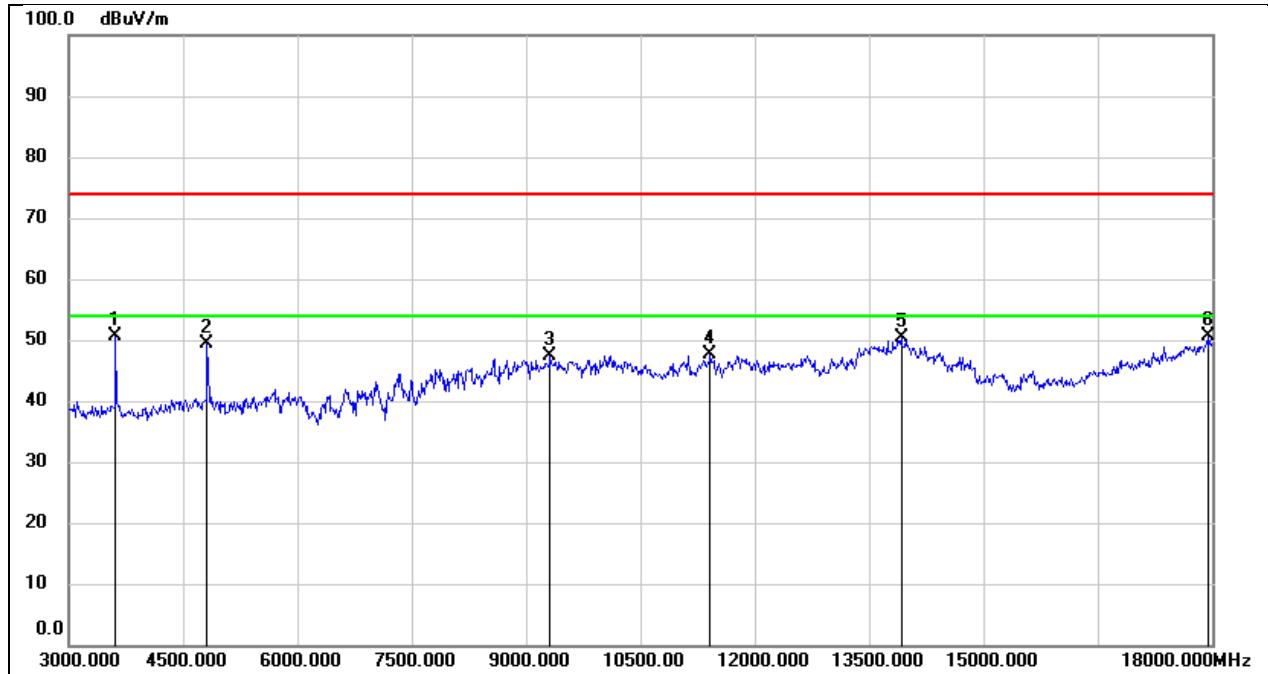
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1102.000	58.54	-13.50	45.04	74.00	-28.96	peak
2	1448.000	57.93	-12.09	45.84	74.00	-28.16	peak
3	1632.000	58.94	-11.02	47.92	74.00	-26.08	peak
4	2300.000	56.49	-8.14	48.35	74.00	-25.65	peak
5	2462.000	77.08	-7.46	69.62	/	/	fundamental
6	2578.000	52.45	-7.65	44.80	74.00	-29.20	peak

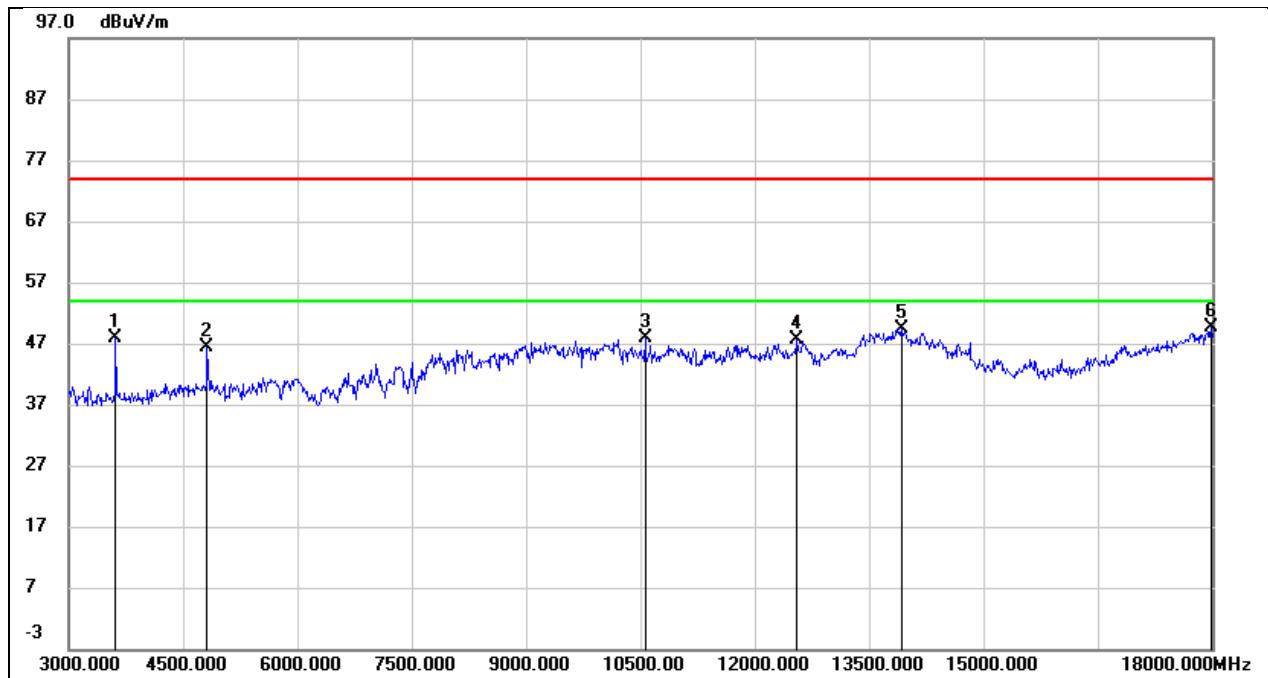
8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



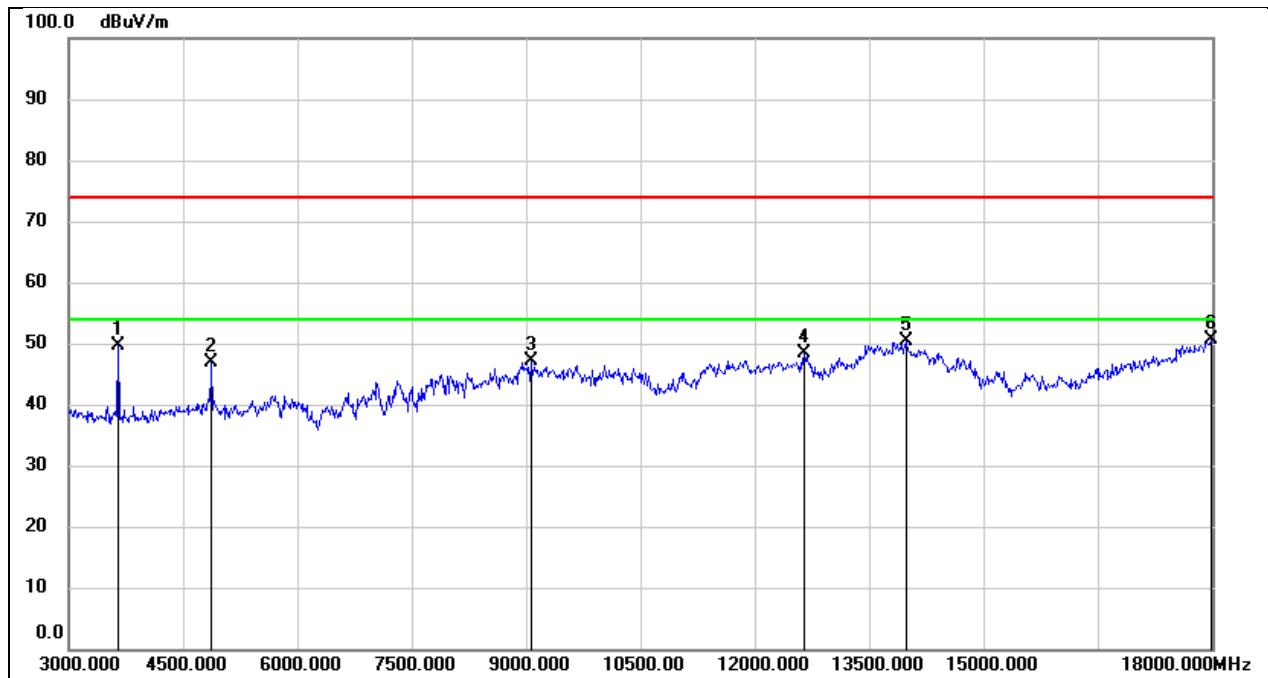
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	53.81	-3.25	50.56	74.00	-23.44	peak
2	4815.000	48.86	0.49	49.35	74.00	-24.65	peak
3	9315.000	37.17	10.26	47.43	74.00	-26.57	peak
4	11415.000	31.08	16.59	47.67	74.00	-26.33	peak
5	13920.000	27.67	22.71	50.38	74.00	-23.62	peak
6	17940.000	24.10	26.61	50.71	74.00	-23.29	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



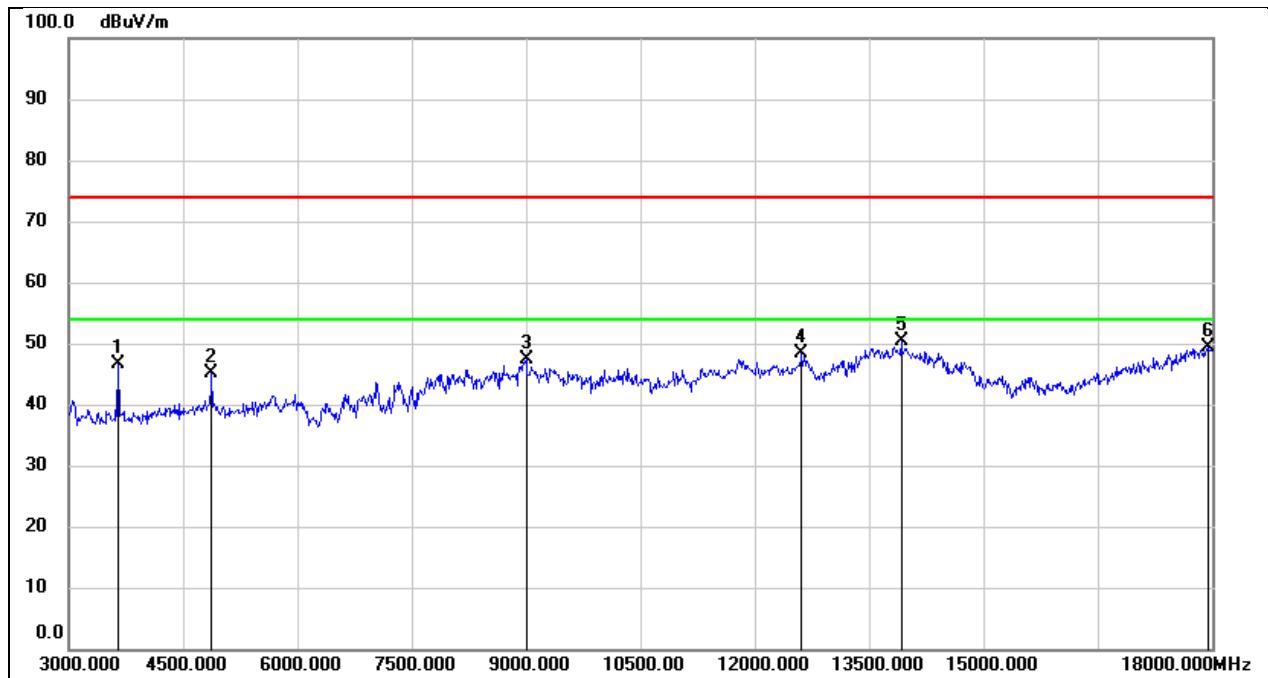
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	51.14	-3.25	47.89	74.00	-26.11	peak
2	4815.000	45.80	0.49	46.29	74.00	-27.71	peak
3	10560.000	34.15	13.84	47.99	74.00	-26.01	peak
4	12555.000	29.19	18.39	47.58	74.00	-26.42	peak
5	13920.000	26.57	22.71	49.28	74.00	-24.72	peak
6	17985.000	22.94	26.77	49.71	74.00	-24.29	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



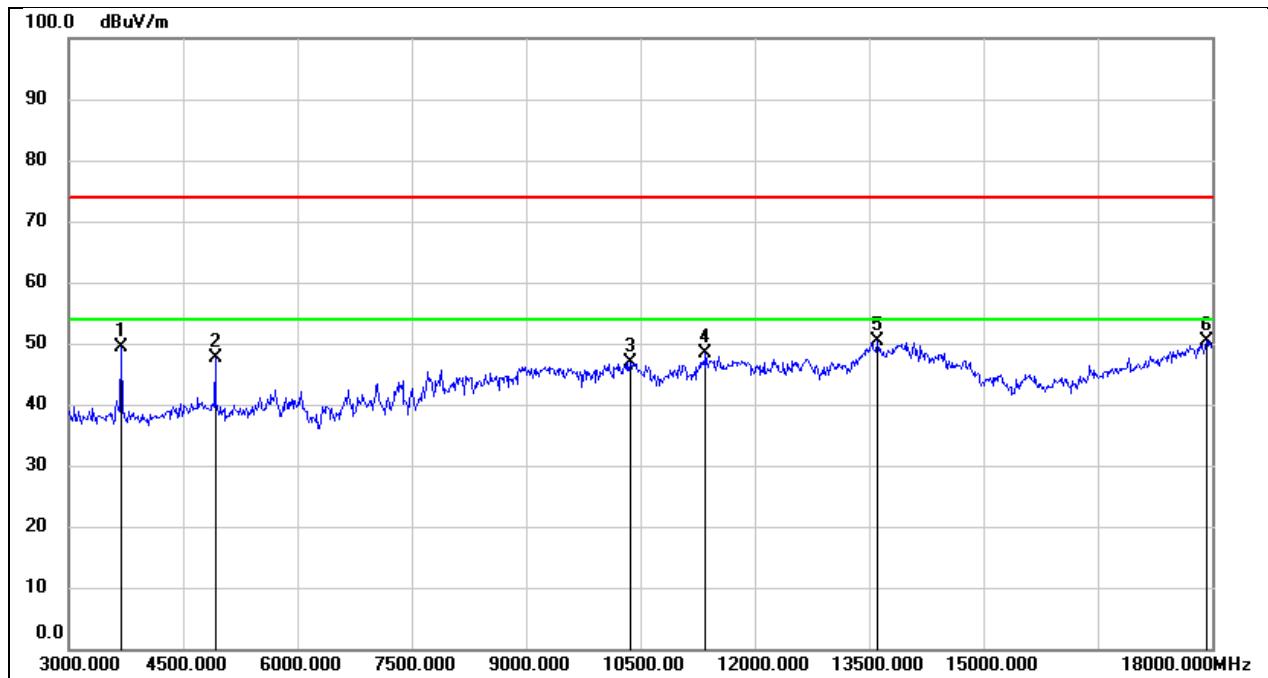
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3645.000	52.71	-3.19	49.52	74.00	-24.48	peak
2	4875.000	46.30	0.61	46.91	74.00	-27.09	peak
3	9060.000	36.29	10.82	47.11	74.00	-26.89	peak
4	12645.000	29.97	18.44	48.41	74.00	-25.59	peak
5	13995.000	27.52	22.76	50.28	74.00	-23.72	peak
6	17985.000	23.82	26.77	50.59	74.00	-23.41	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



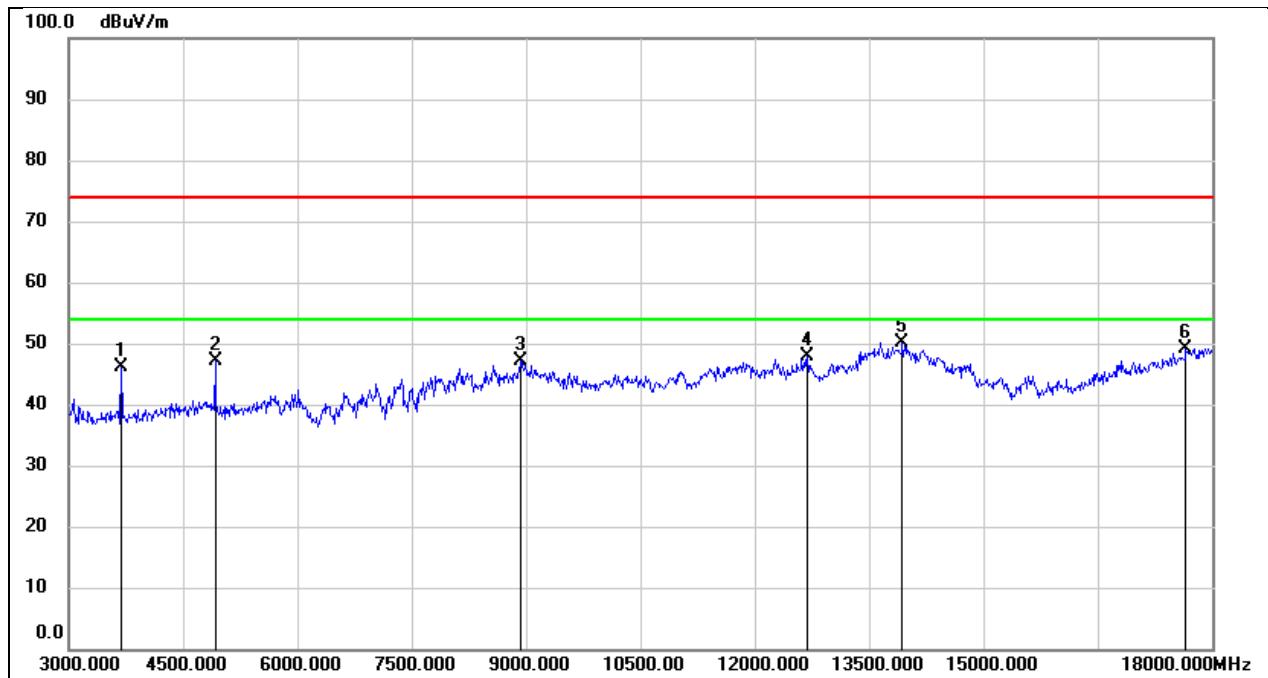
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3645.000	49.82	-3.19	46.63	74.00	-27.37	peak
2	4875.000	44.63	0.61	45.24	74.00	-28.76	peak
3	9000.000	36.30	11.17	47.47	74.00	-26.53	peak
4	12615.000	29.98	18.33	48.31	74.00	-25.69	peak
5	13920.000	27.68	22.71	50.39	74.00	-23.61	peak
6	17940.000	22.76	26.61	49.37	74.00	-24.63	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



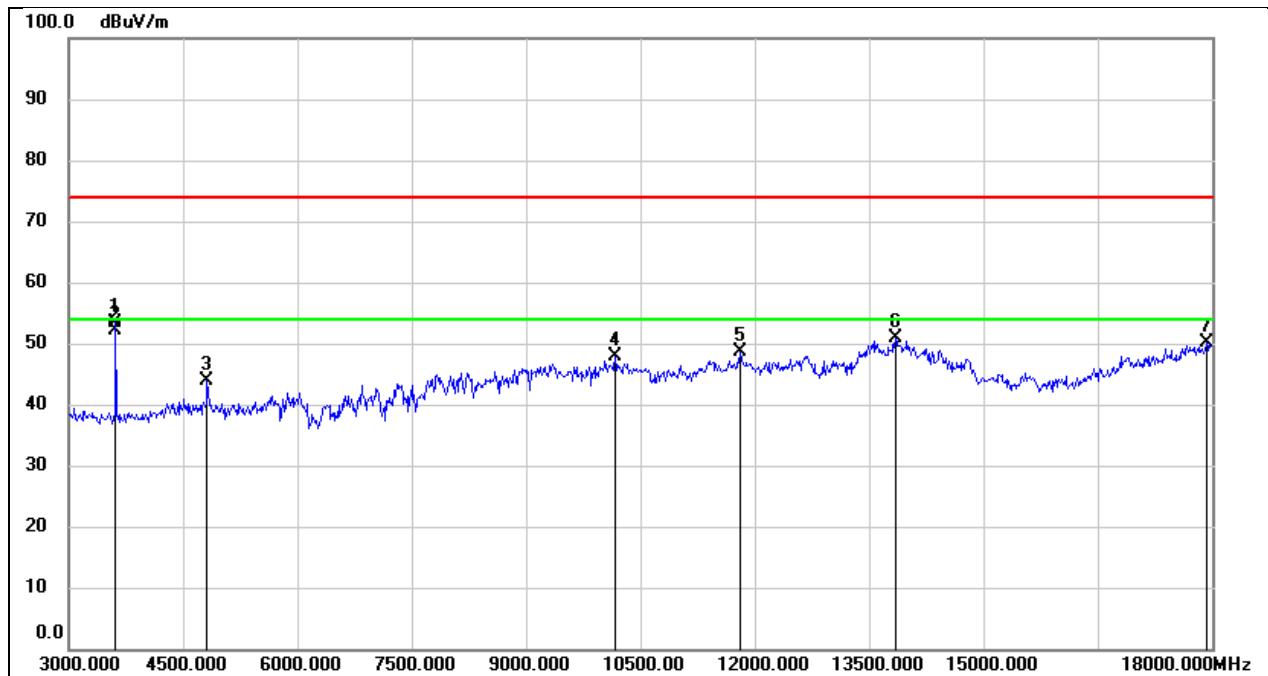
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	52.47	-3.10	49.37	74.00	-24.63	peak
2	4920.000	47.04	0.69	47.73	74.00	-26.27	peak
3	10365.000	33.70	13.29	46.99	74.00	-27.01	peak
4	11355.000	32.16	16.27	48.43	74.00	-25.57	peak
5	13605.000	28.76	21.68	50.44	74.00	-23.56	peak
6	17925.000	23.87	26.55	50.42	74.00	-23.58	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



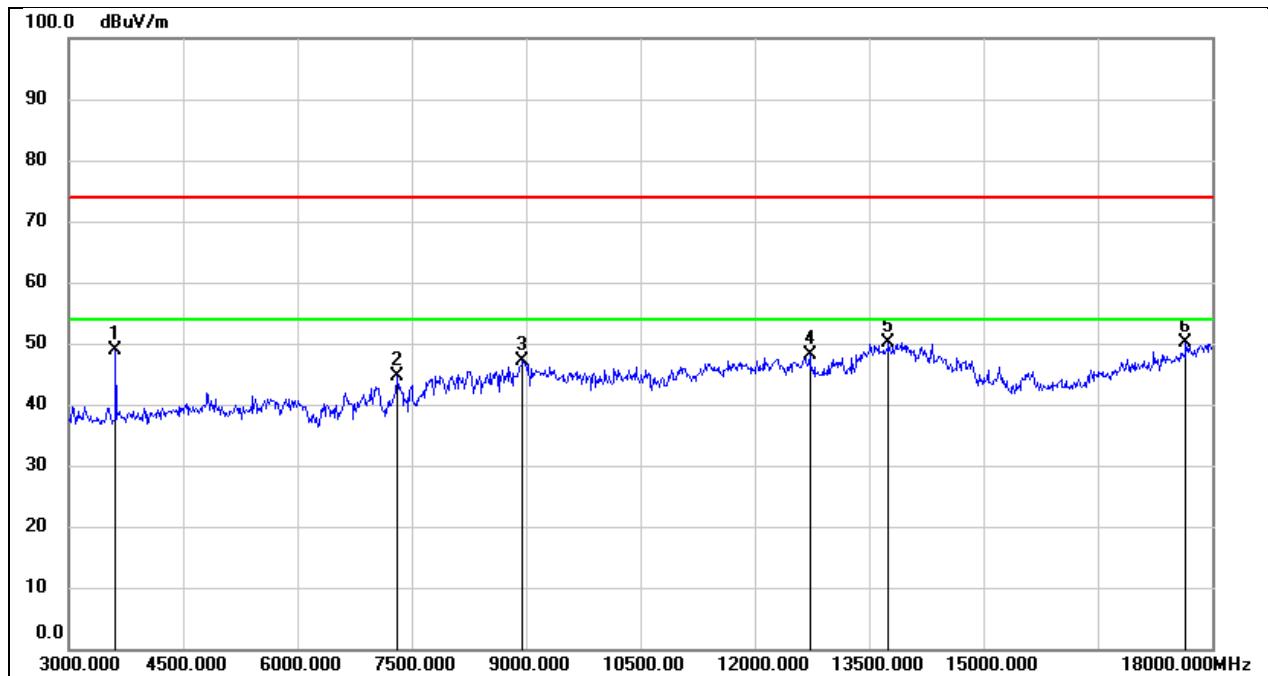
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	49.18	-3.10	46.08	74.00	-27.92	peak
2	4920.000	46.47	0.69	47.16	74.00	-26.84	peak
3	8925.000	37.06	10.14	47.20	74.00	-26.80	peak
4	12690.000	29.40	18.60	48.00	74.00	-26.00	peak
5	13935.000	27.47	22.72	50.19	74.00	-23.81	peak
6	17655.000	24.47	24.75	49.22	74.00	-24.78	peak

Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



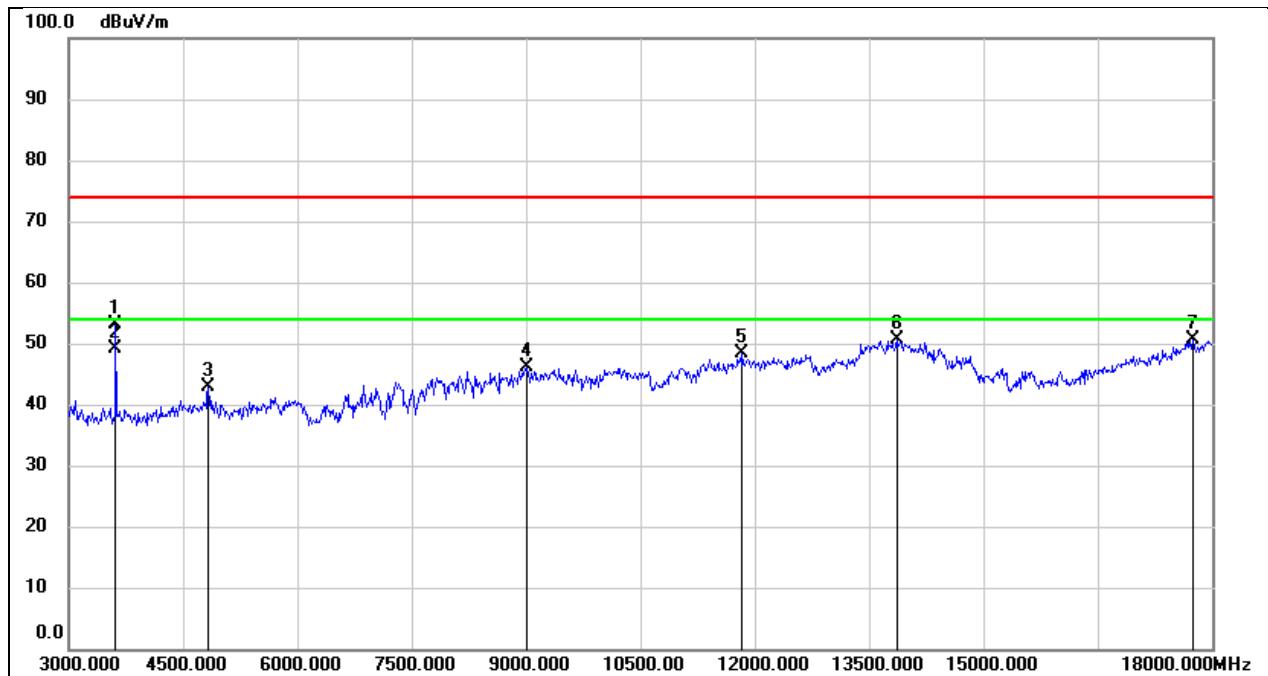
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	56.58	-3.25	53.33	74.00	-20.67	peak
2	3615.000	55.45	-3.25	52.20	54.00	-1.80	AVG
3	4815.000	43.49	0.49	43.98	74.00	-30.02	peak
4	10170.000	35.39	12.48	47.87	74.00	-26.13	peak
5	11805.000	31.07	17.65	48.72	74.00	-25.28	peak
6	13845.000	28.16	22.67	50.83	74.00	-23.17	peak
7	17925.000	23.53	26.55	50.08	74.00	-23.92	peak

Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



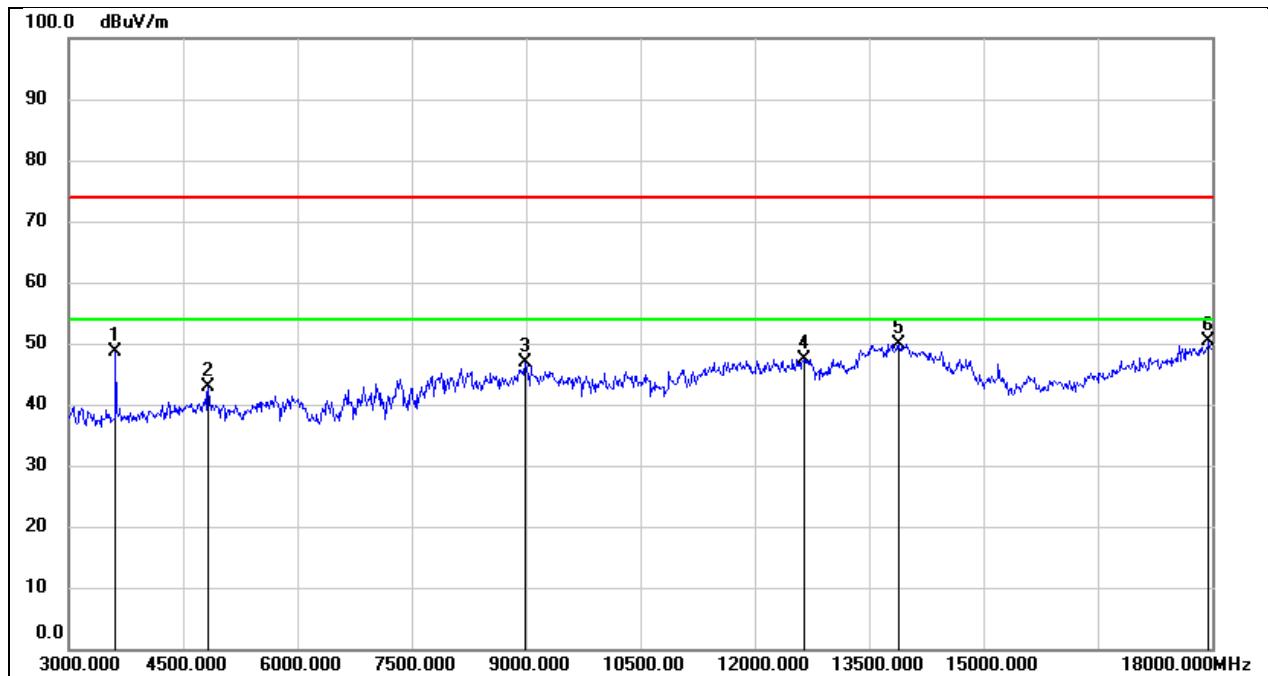
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	52.18	-3.25	48.93	74.00	-25.07	peak
2	7305.000	37.68	6.89	44.57	74.00	-29.43	peak
3	8955.000	36.68	10.56	47.24	74.00	-26.76	peak
4	12720.000	29.30	18.71	48.01	74.00	-25.99	peak
5	13755.000	27.65	22.42	50.07	74.00	-23.93	peak
6	17655.000	25.38	24.75	50.13	74.00	-23.87	peak

Test Mode:	802.11g	Frequency(MHz):	2417
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



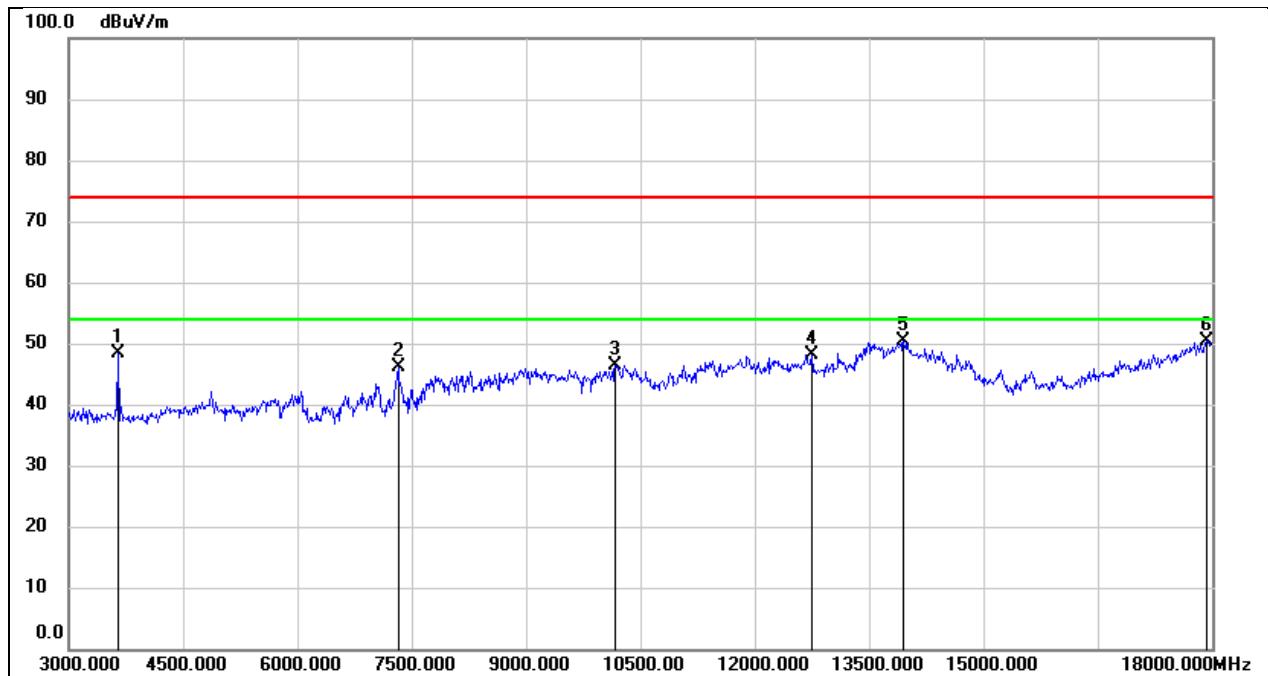
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	56.42	-3.25	53.17	74.00	-20.83	peak
2	3615.000	52.35	-3.25	49.10	54.00	-4.90	AVG
3	4830.000	42.30	0.51	42.81	74.00	-31.19	peak
4	9000.000	34.87	11.17	46.04	74.00	-27.96	peak
5	11835.000	30.58	17.79	48.37	74.00	-25.63	peak
6	13860.000	27.84	22.68	50.52	74.00	-23.48	peak
7	17745.000	24.95	25.58	50.53	74.00	-23.47	peak

Test Mode:	802.11g	Frequency(MHz):	2417
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



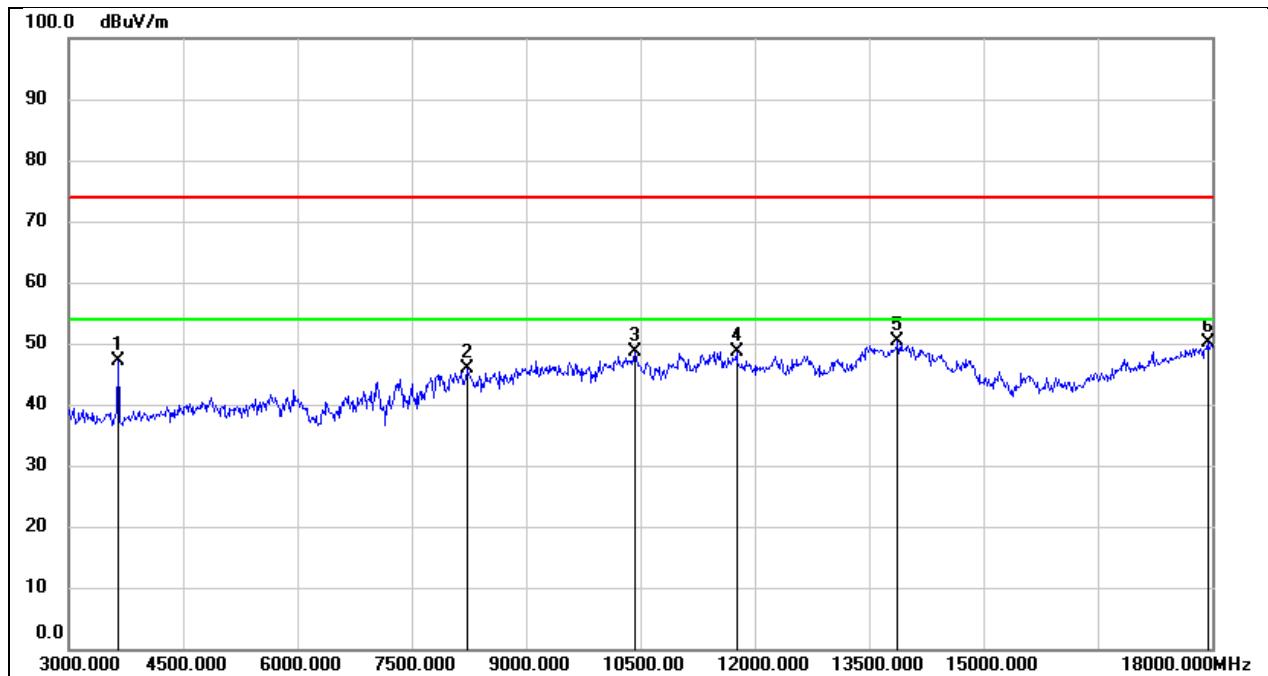
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	51.85	-3.25	48.60	74.00	-25.40	peak
2	4830.000	42.37	0.51	42.88	74.00	-31.12	peak
3	8985.000	35.83	10.97	46.80	74.00	-27.20	peak
4	12645.000	28.88	18.44	47.32	74.00	-26.68	peak
5	13890.000	27.29	22.69	49.98	74.00	-24.02	peak
6	17955.000	23.69	26.66	50.35	74.00	-23.65	peak

Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



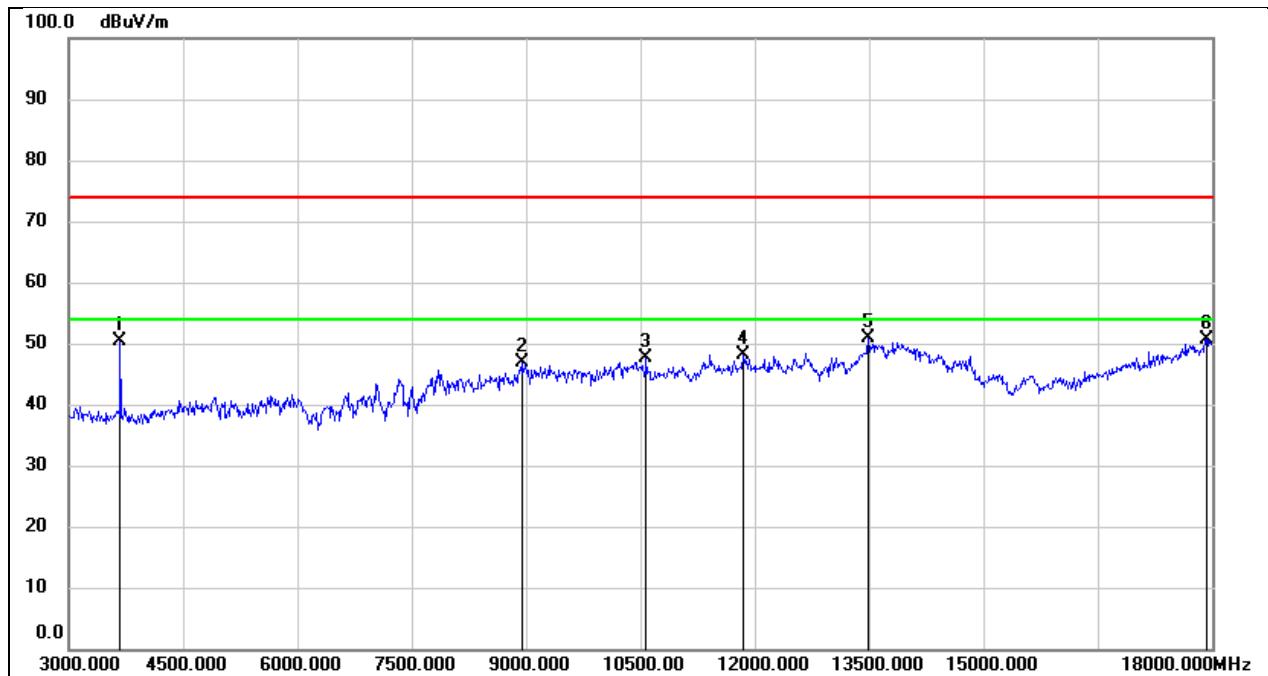
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3645.000	51.68	-3.19	48.49	74.00	-25.51	peak
2	7320.000	39.07	6.98	46.05	74.00	-27.95	peak
3	10170.000	33.87	12.48	46.35	74.00	-27.65	peak
4	12750.000	29.31	18.83	48.14	74.00	-25.86	peak
5	13950.000	27.69	22.73	50.42	74.00	-23.58	peak
6	17925.000	23.93	26.55	50.48	74.00	-23.52	peak

Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



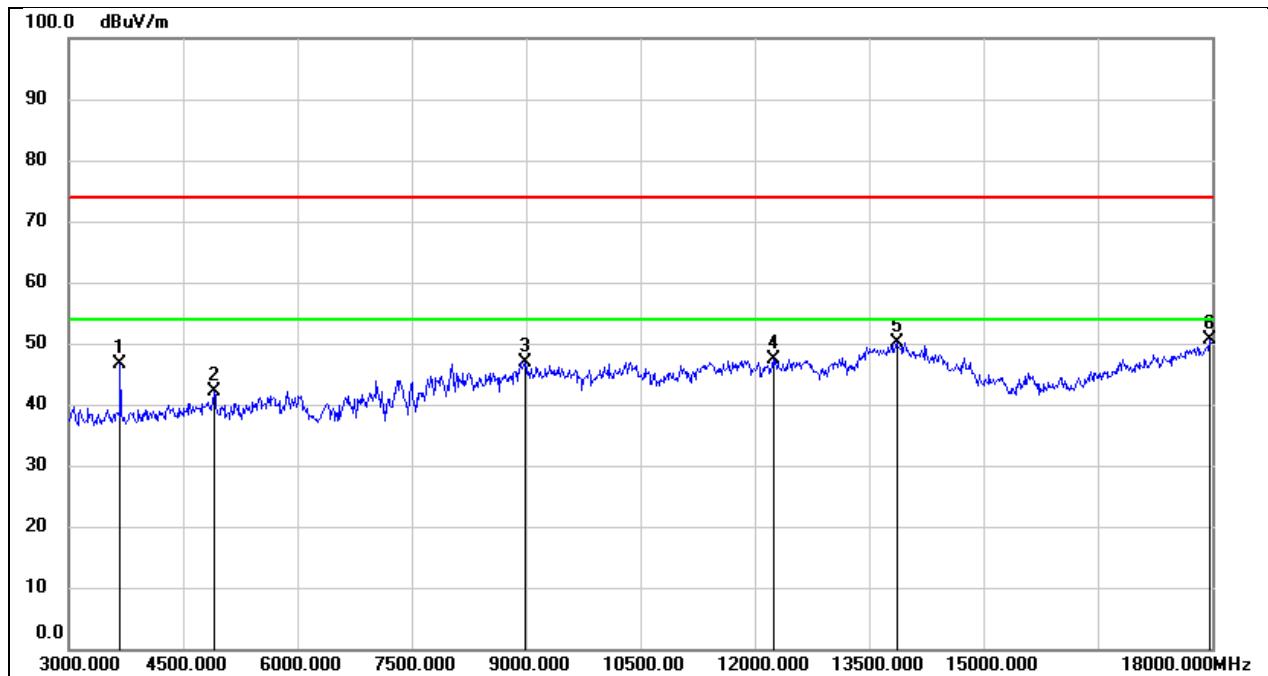
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3645.000	50.36	-3.19	47.17	74.00	-26.83	peak
2	8235.000	37.15	8.70	45.85	74.00	-28.15	peak
3	10425.000	35.02	13.51	48.53	74.00	-25.47	peak
4	11760.000	31.17	17.51	48.68	74.00	-25.32	peak
5	13875.000	27.71	22.68	50.39	74.00	-23.61	peak
6	17940.000	23.40	26.61	50.01	74.00	-23.99	peak

Test Mode:	802.11g	Frequency(MHz):	2457
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



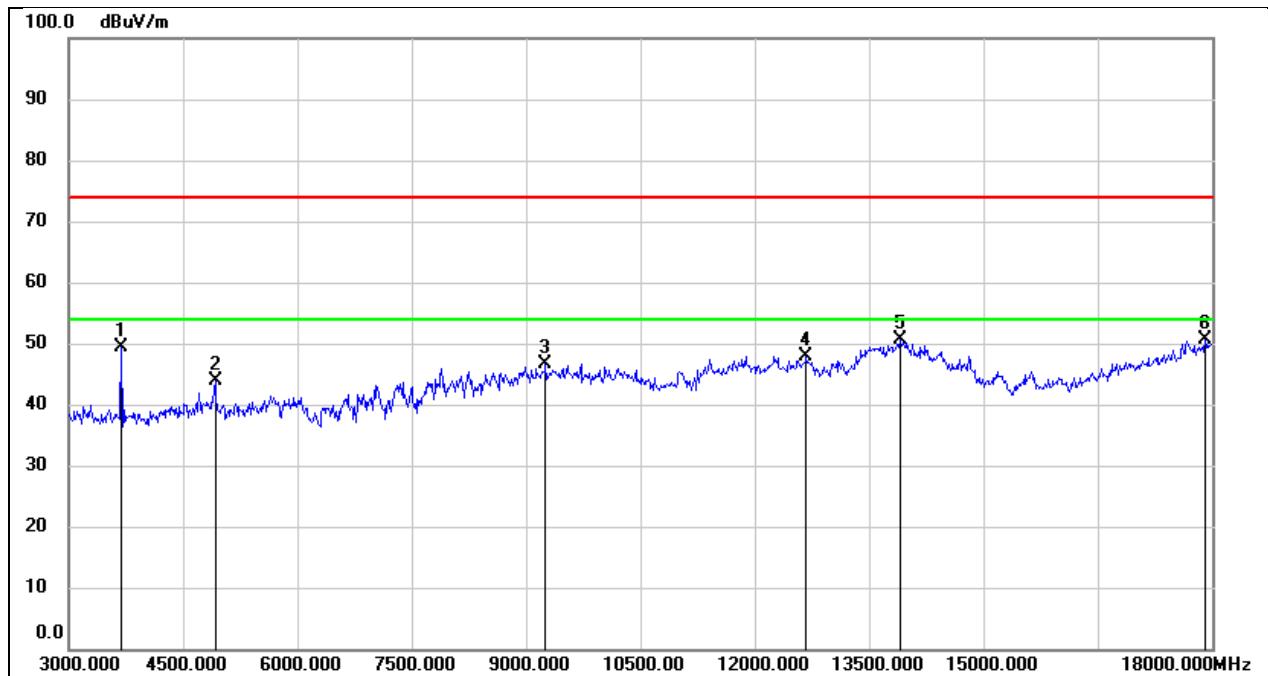
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3675.000	53.59	-3.13	50.46	74.00	-23.54	peak
2	8940.000	36.54	10.35	46.89	74.00	-27.11	peak
3	10575.000	33.64	13.87	47.51	74.00	-26.49	peak
4	11850.000	30.35	17.84	48.19	74.00	-25.81	peak
5	13485.000	29.21	21.65	50.86	74.00	-23.14	peak
6	17925.000	24.08	26.55	50.63	74.00	-23.37	peak

Test Mode:	802.11g	Frequency(MHz):	2457
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



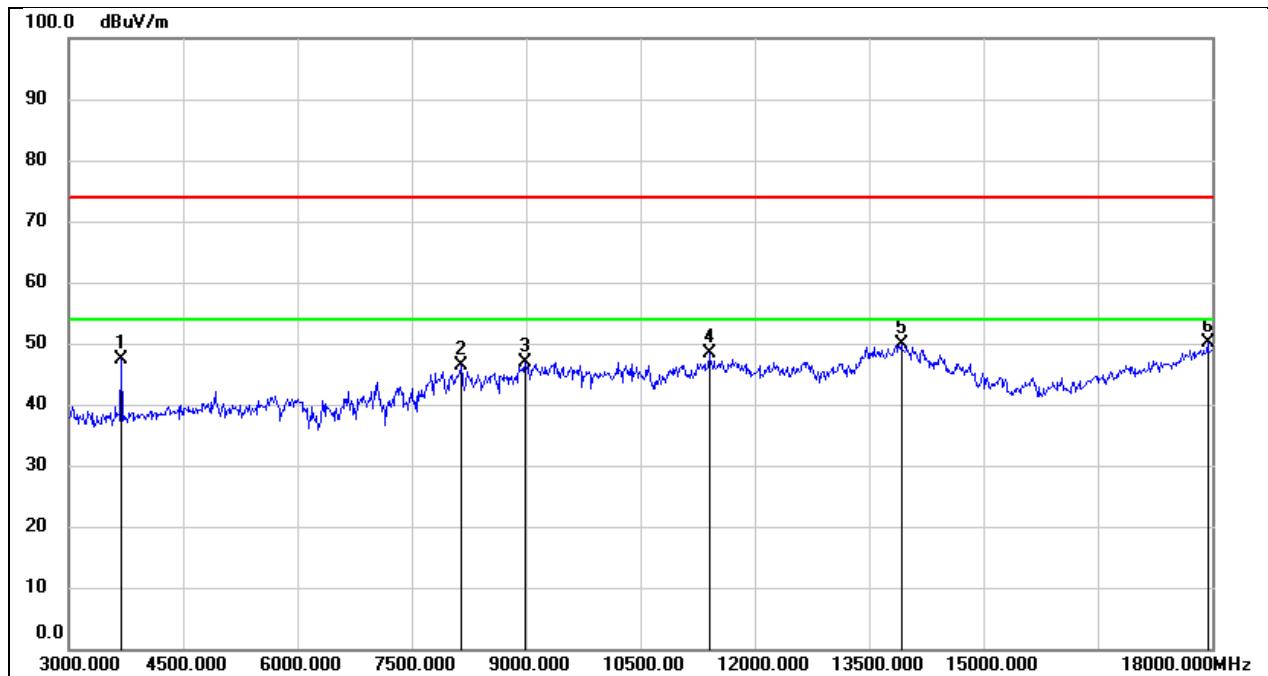
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3675.000	49.65	-3.13	46.52	74.00	-27.48	peak
2	4905.000	41.55	0.66	42.21	74.00	-31.79	peak
3	8985.000	35.82	10.97	46.79	74.00	-27.21	peak
4	12240.000	28.95	18.46	47.41	74.00	-26.59	peak
5	13860.000	27.40	22.68	50.08	74.00	-23.92	peak
6	17970.000	23.79	26.72	50.51	74.00	-23.49	peak

Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



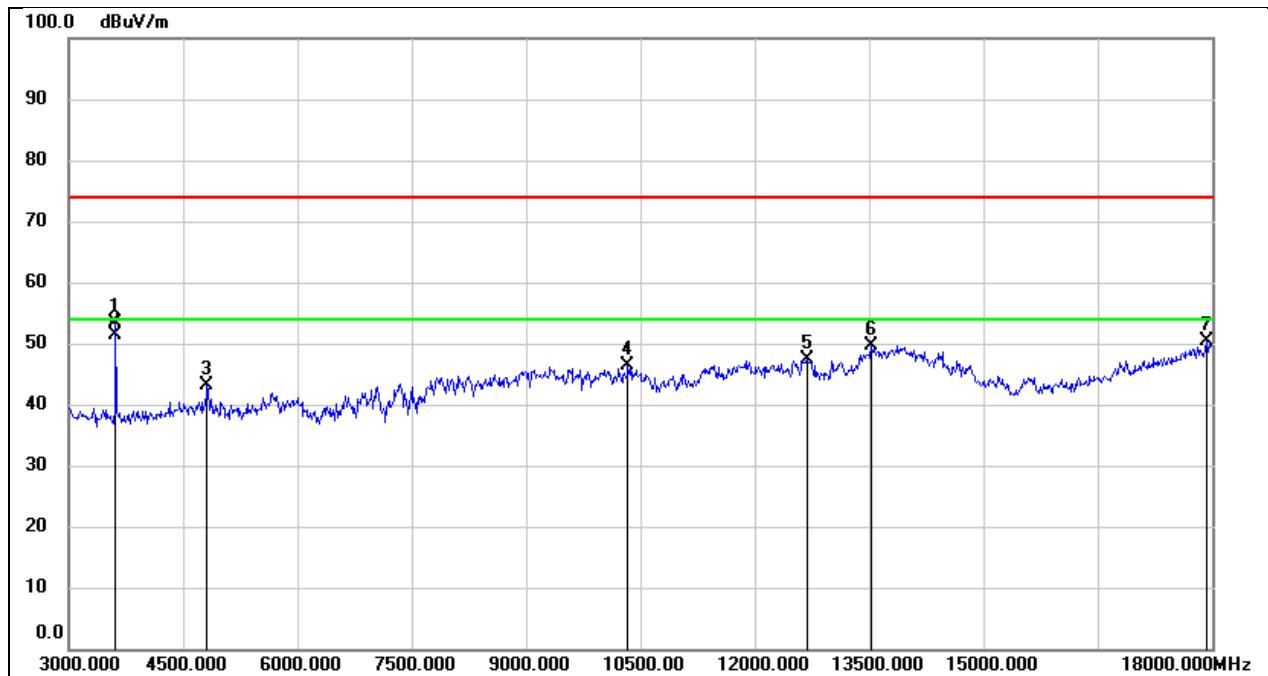
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	52.57	-3.10	49.47	74.00	-24.53	peak
2	4920.000	43.23	0.69	43.92	74.00	-30.08	peak
3	9255.000	36.58	10.14	46.72	74.00	-27.28	peak
4	12675.000	29.33	18.54	47.87	74.00	-26.13	peak
5	13905.000	27.87	22.70	50.57	74.00	-23.43	peak
6	17910.000	24.10	26.50	50.60	74.00	-23.40	peak

Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



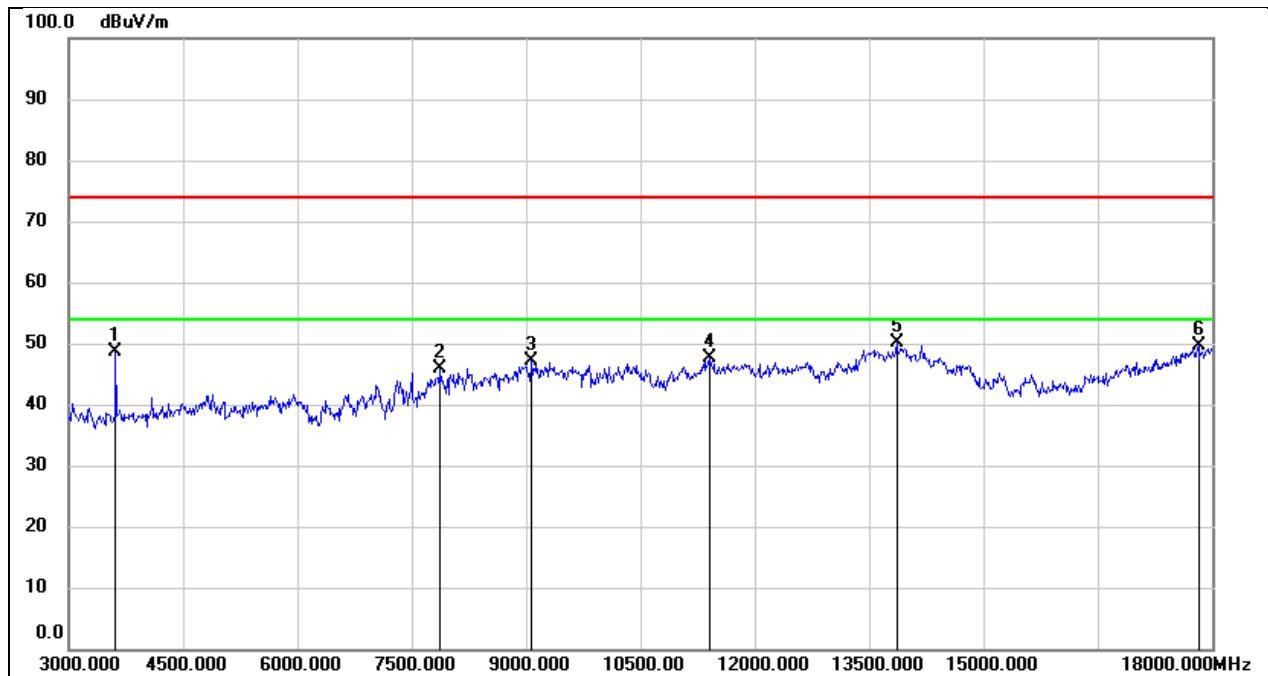
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	50.48	-3.10	47.38	74.00	-26.62	peak
2	8145.000	38.01	8.36	46.37	74.00	-27.63	peak
3	8985.000	35.91	10.97	46.88	74.00	-27.12	peak
4	11400.000	31.77	16.54	48.31	74.00	-25.69	peak
5	13920.000	27.07	22.71	49.78	74.00	-24.22	peak
6	17940.000	23.61	26.61	50.22	74.00	-23.78	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



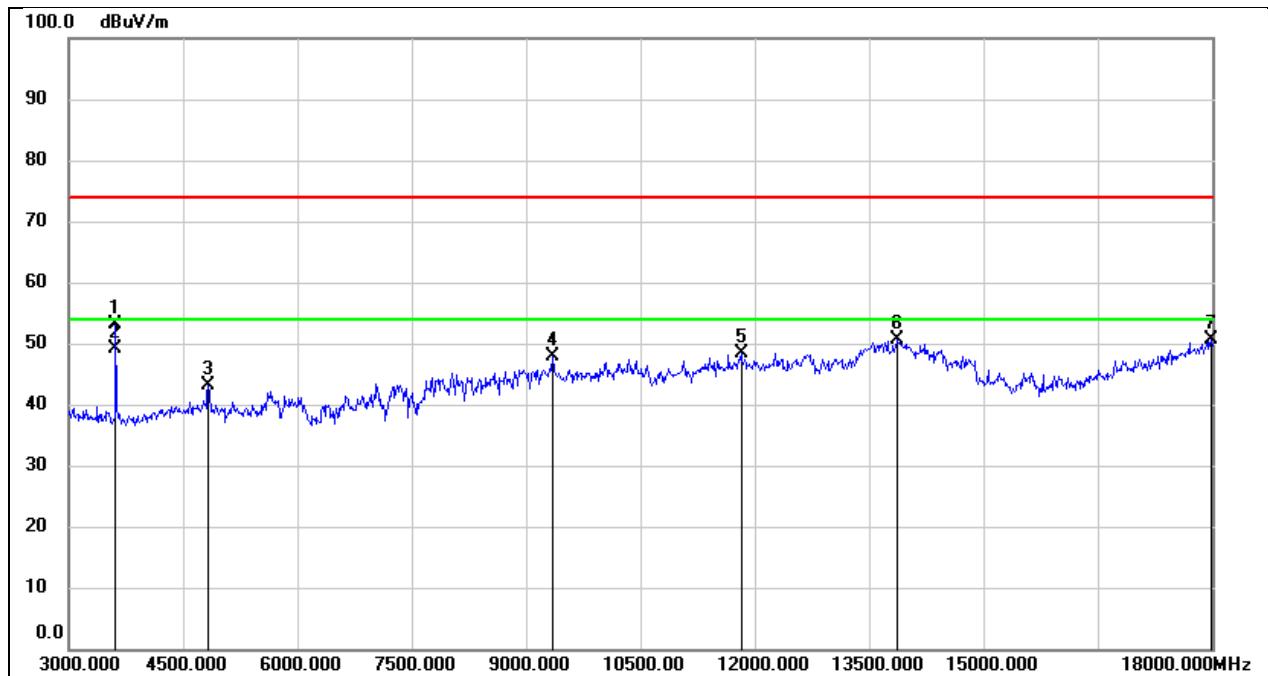
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	56.65	-3.25	53.40	74.00	-20.60	peak
2	3615.000	54.65	-3.25	51.40	54.00	-2.60	AVG
3	4815.000	42.61	0.49	43.10	74.00	-30.90	peak
4	10335.000	33.33	13.14	46.47	74.00	-27.53	peak
5	12690.000	28.84	18.60	47.44	74.00	-26.56	peak
6	13530.000	28.06	21.68	49.74	74.00	-24.26	peak
7	17925.000	23.80	26.55	50.35	74.00	-23.65	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



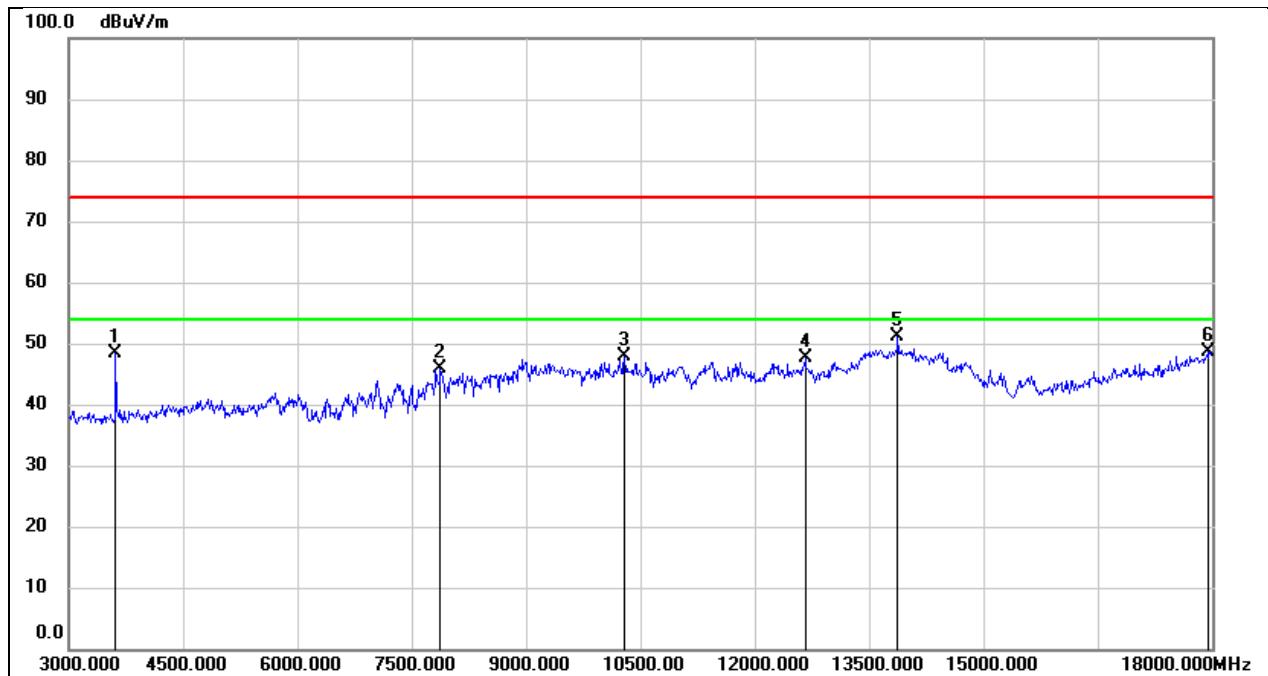
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	51.79	-3.25	48.54	74.00	-25.46	peak
2	7875.000	38.65	7.33	45.98	74.00	-28.02	peak
3	9075.000	36.42	10.74	47.16	74.00	-26.84	peak
4	11400.000	31.10	16.54	47.64	74.00	-26.36	peak
5	13860.000	27.56	22.68	50.24	74.00	-23.76	peak
6	17820.000	23.39	26.16	49.55	74.00	-24.45	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2417
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



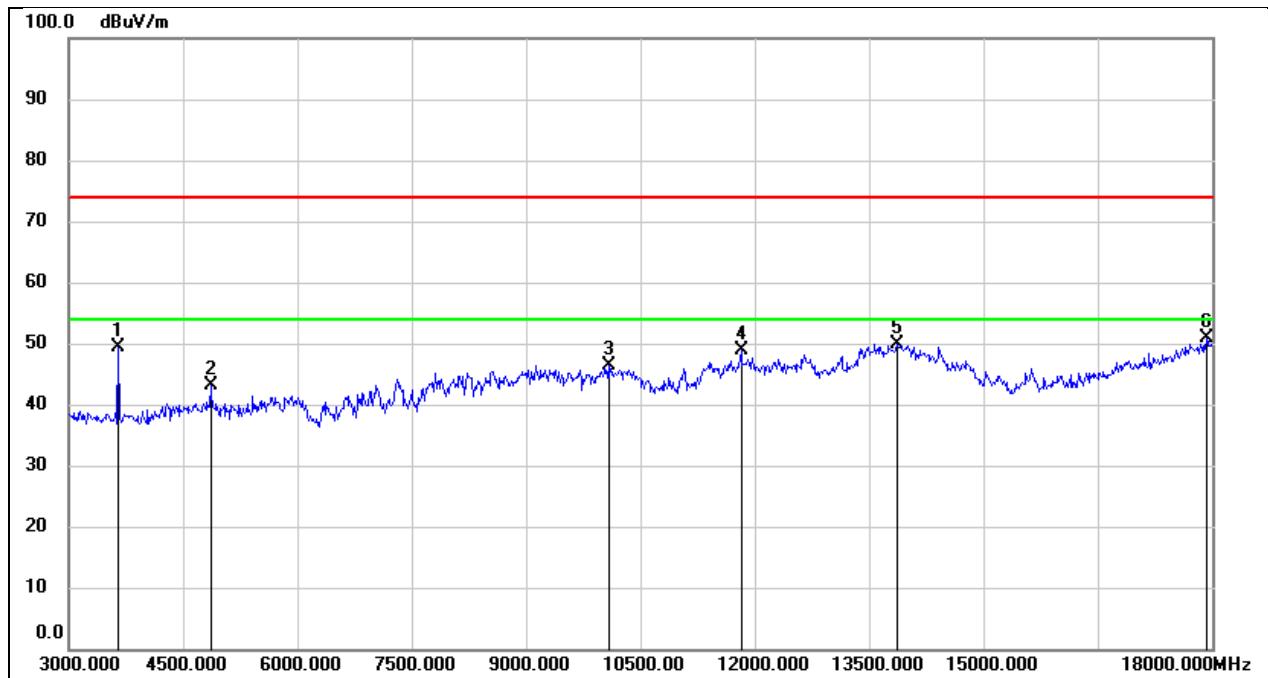
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	56.45	-3.25	53.20	74.00	-20.80	peak
2	3615.000	52.35	-3.25	49.10	54.00	-4.90	AVG
3	4830.000	42.51	0.51	43.02	74.00	-30.98	peak
4	9345.000	37.44	10.32	47.76	74.00	-26.24	peak
5	11820.000	30.57	17.73	48.30	74.00	-25.70	peak
6	13875.000	27.87	22.68	50.55	74.00	-23.45	peak
7	17985.000	23.90	26.77	50.67	74.00	-23.33	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2417
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



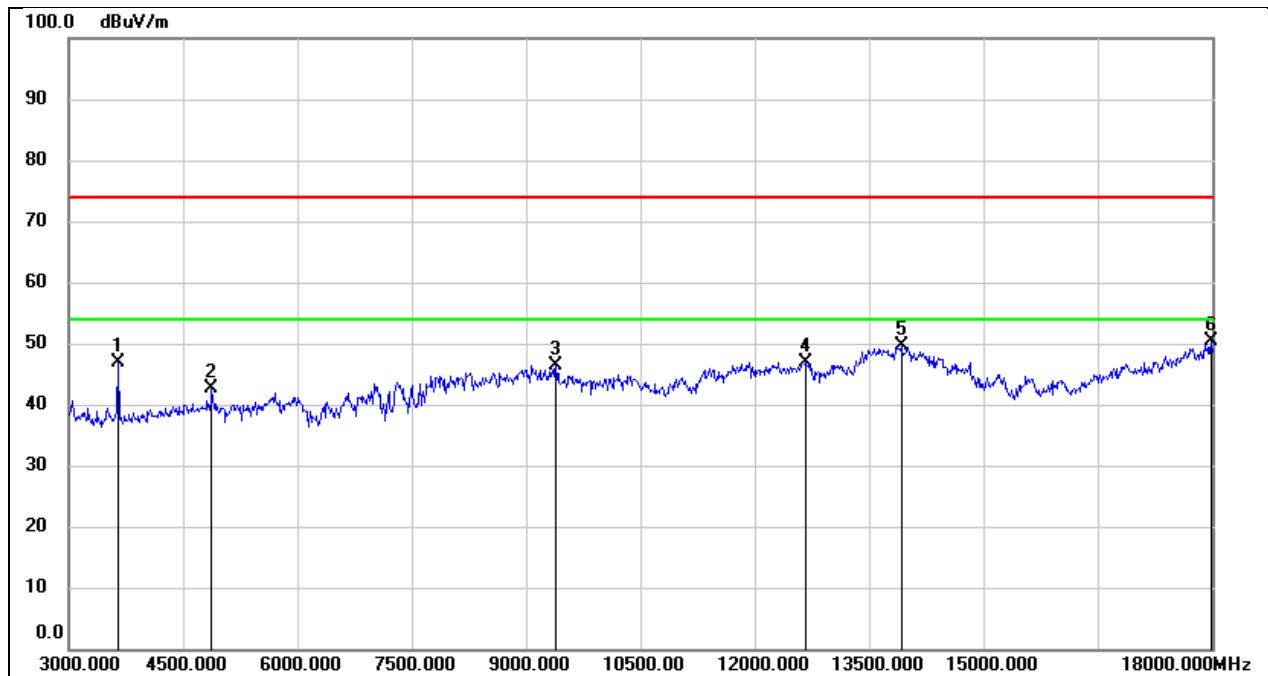
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	51.56	-3.25	48.31	74.00	-25.69	peak
2	7875.000	38.63	7.33	45.96	74.00	-28.04	peak
3	10290.000	34.94	12.93	47.87	74.00	-26.13	peak
4	12660.000	29.02	18.49	47.51	74.00	-26.49	peak
5	13875.000	28.38	22.68	51.06	74.00	-22.94	peak
6	17940.000	22.14	26.61	48.75	74.00	-25.25	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



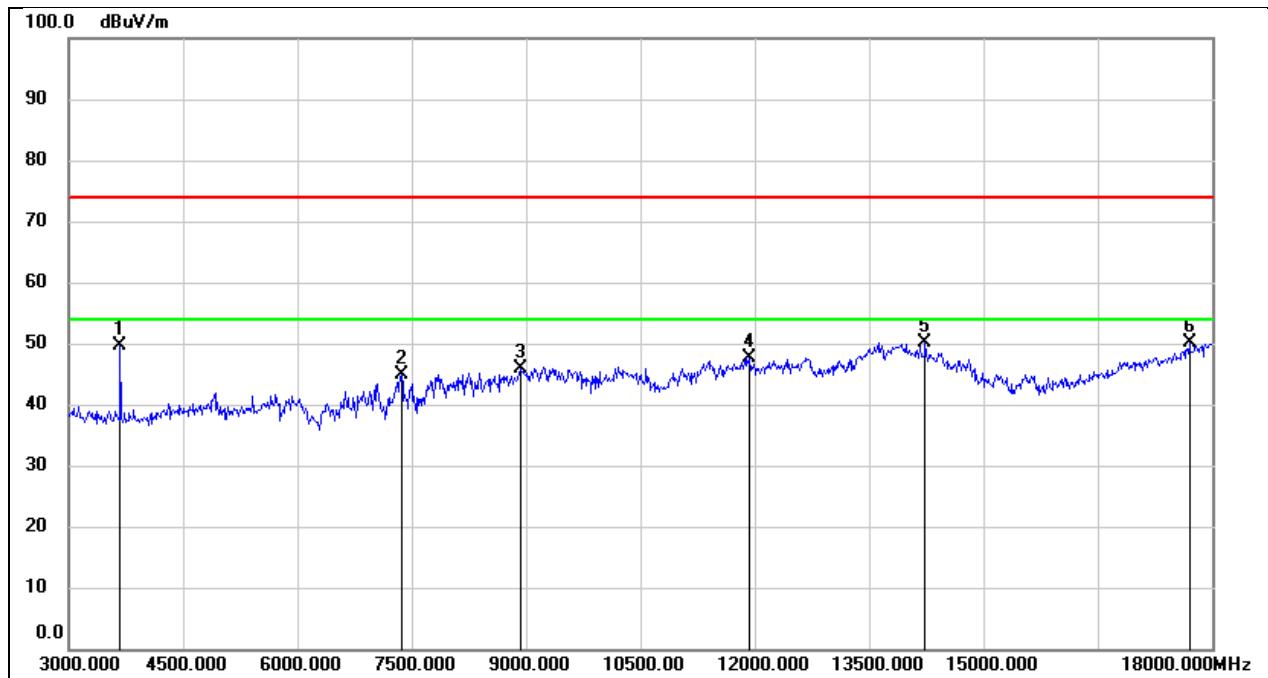
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3645.000	52.58	-3.19	49.39	74.00	-24.61	peak
2	4860.000	42.59	0.57	43.16	74.00	-30.84	peak
3	10080.000	33.98	12.48	46.46	74.00	-27.54	peak
4	11820.000	31.06	17.73	48.79	74.00	-25.21	peak
5	13860.000	27.26	22.68	49.94	74.00	-24.06	peak
6	17925.000	24.28	26.55	50.83	74.00	-23.17	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



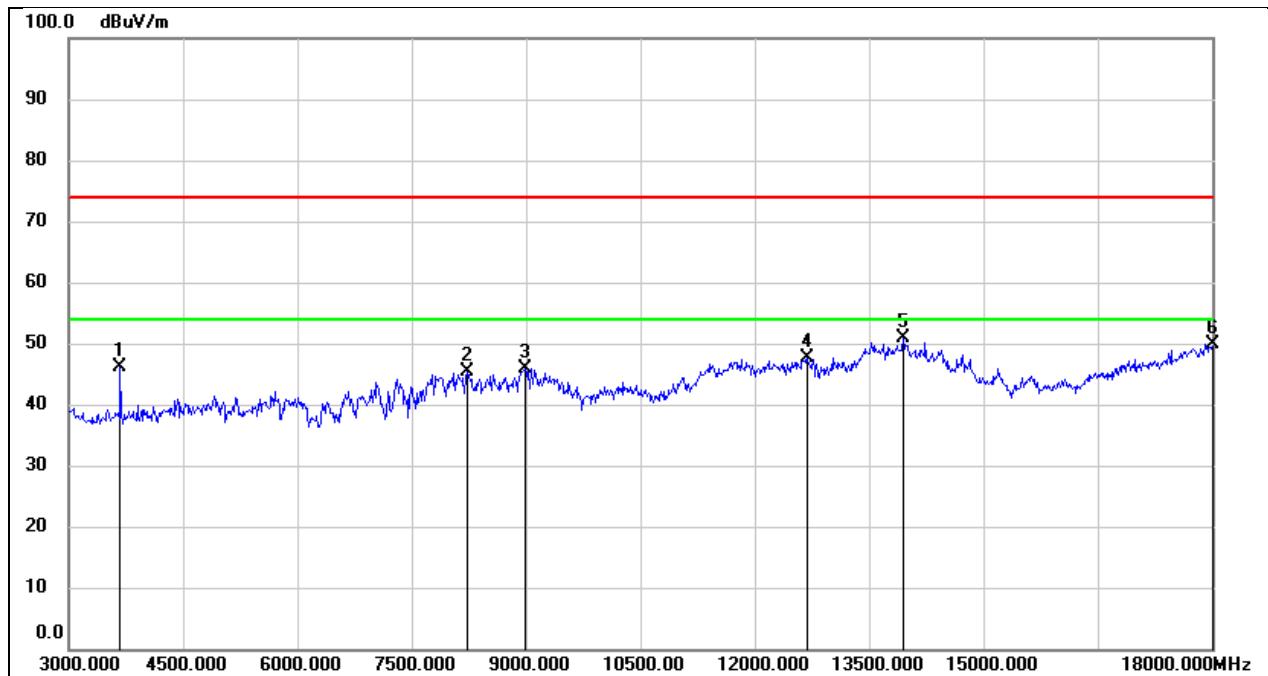
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3645.000	50.08	-3.19	46.89	74.00	-27.11	peak
2	4875.000	42.09	0.61	42.70	74.00	-31.30	peak
3	9390.000	35.91	10.43	46.34	74.00	-27.66	peak
4	12675.000	28.44	18.54	46.98	74.00	-27.02	peak
5	13920.000	26.91	22.71	49.62	74.00	-24.38	peak
6	17985.000	23.56	26.77	50.33	74.00	-23.67	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2457
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



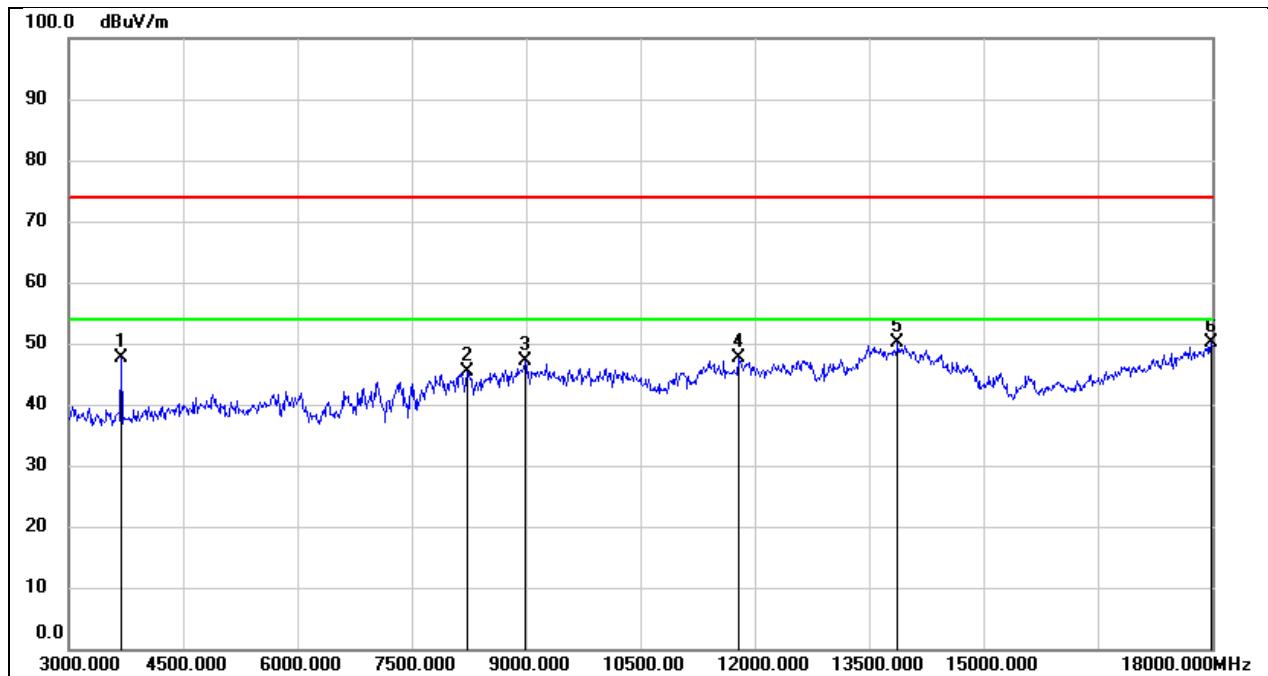
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3675.000	52.68	-3.13	49.55	74.00	-24.45	peak
2	7365.000	37.61	7.25	44.86	74.00	-29.14	peak
3	8925.000	35.64	10.14	45.78	74.00	-28.22	peak
4	11925.000	29.48	18.17	47.65	74.00	-26.35	peak
5	14235.000	28.17	21.95	50.12	74.00	-23.88	peak
6	17700.000	24.89	25.17	50.06	74.00	-23.94	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2457
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



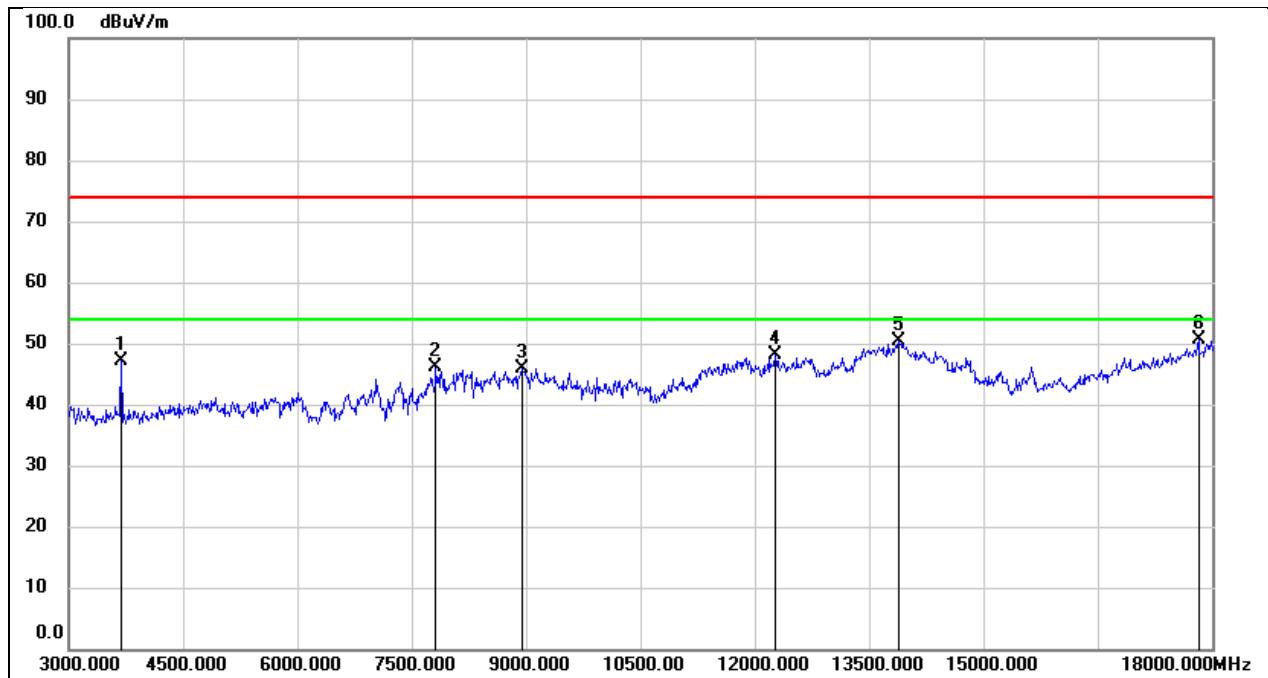
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3675.000	49.21	-3.13	46.08	74.00	-27.92	peak
2	8220.000	36.66	8.76	45.42	74.00	-28.58	peak
3	8985.000	34.98	10.97	45.95	74.00	-28.05	peak
4	12690.000	29.04	18.60	47.64	74.00	-26.36	peak
5	13950.000	28.23	22.73	50.96	74.00	-23.04	peak
6	18000.000	23.07	26.83	49.90	74.00	-24.10	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



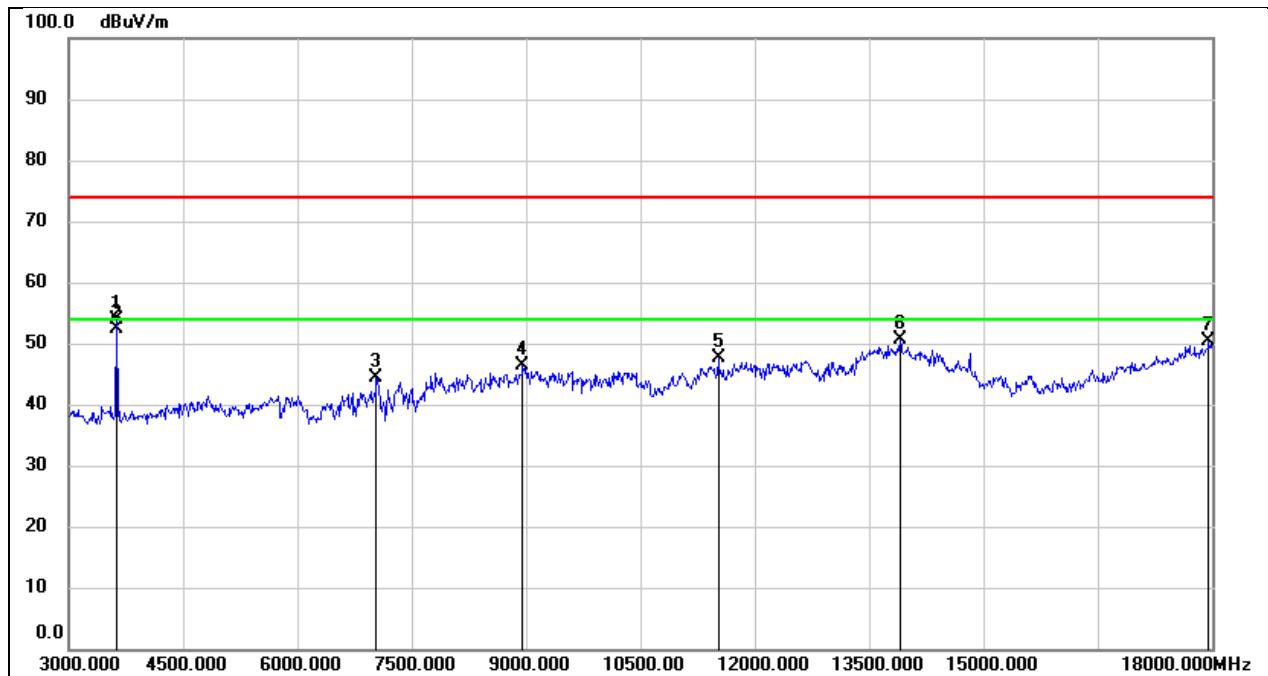
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	50.71	-3.10	47.61	74.00	-26.39	peak
2	8235.000	36.67	8.70	45.37	74.00	-28.63	peak
3	8985.000	36.20	10.97	47.17	74.00	-26.83	peak
4	11790.000	29.99	17.60	47.59	74.00	-26.41	peak
5	13875.000	27.47	22.68	50.15	74.00	-23.85	peak
6	17985.000	23.40	26.77	50.17	74.00	-23.83	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



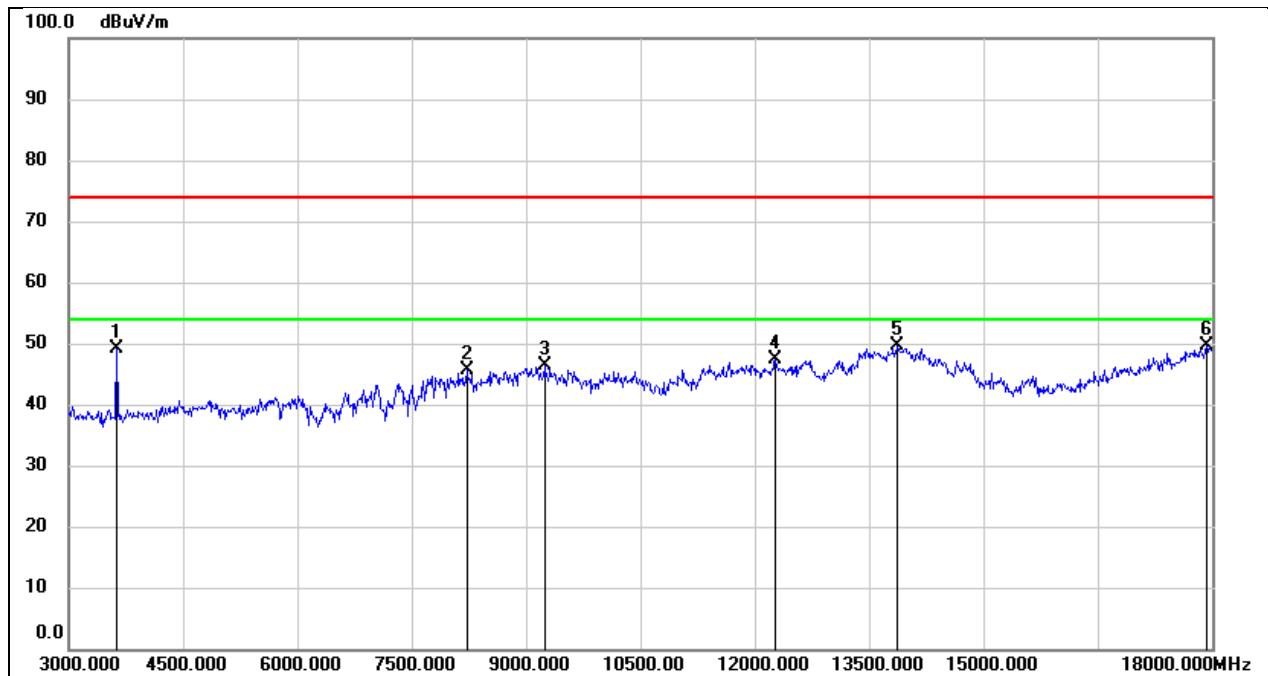
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	50.25	-3.10	47.15	74.00	-26.85	peak
2	7815.000	38.63	7.50	46.13	74.00	-27.87	peak
3	8955.000	35.33	10.56	45.89	74.00	-28.11	peak
4	12270.000	29.46	18.55	48.01	74.00	-25.99	peak
5	13890.000	27.78	22.69	50.47	74.00	-23.53	peak
6	17820.000	24.35	26.16	50.51	74.00	-23.49	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



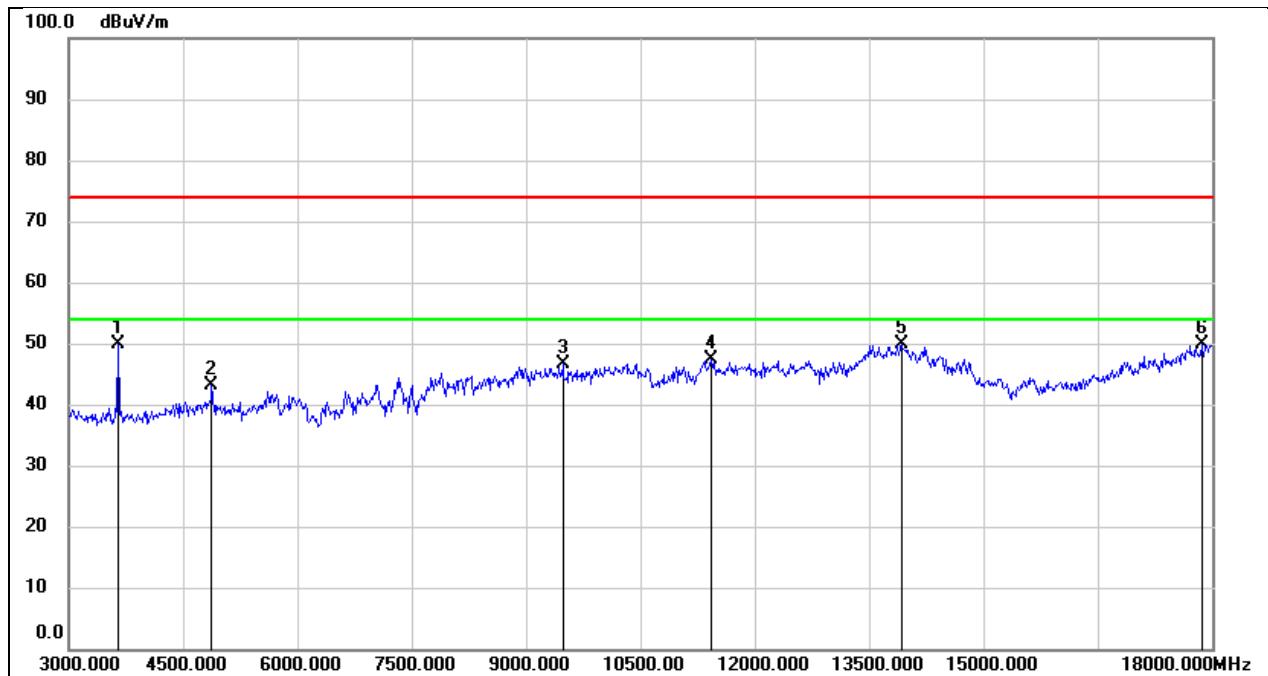
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3630.000	57.05	-3.22	53.83	74.00	-20.17	peak
2	3630.000	55.52	-3.22	52.30	54.00	-1.70	AVG
3	7035.000	37.11	7.28	44.39	74.00	-29.61	peak
4	8955.000	35.92	10.56	46.48	74.00	-27.52	peak
5	11520.000	30.82	16.91	47.73	74.00	-26.27	peak
6	13905.000	27.89	22.70	50.59	74.00	-23.41	peak
7	17955.000	23.61	26.66	50.27	74.00	-23.73	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



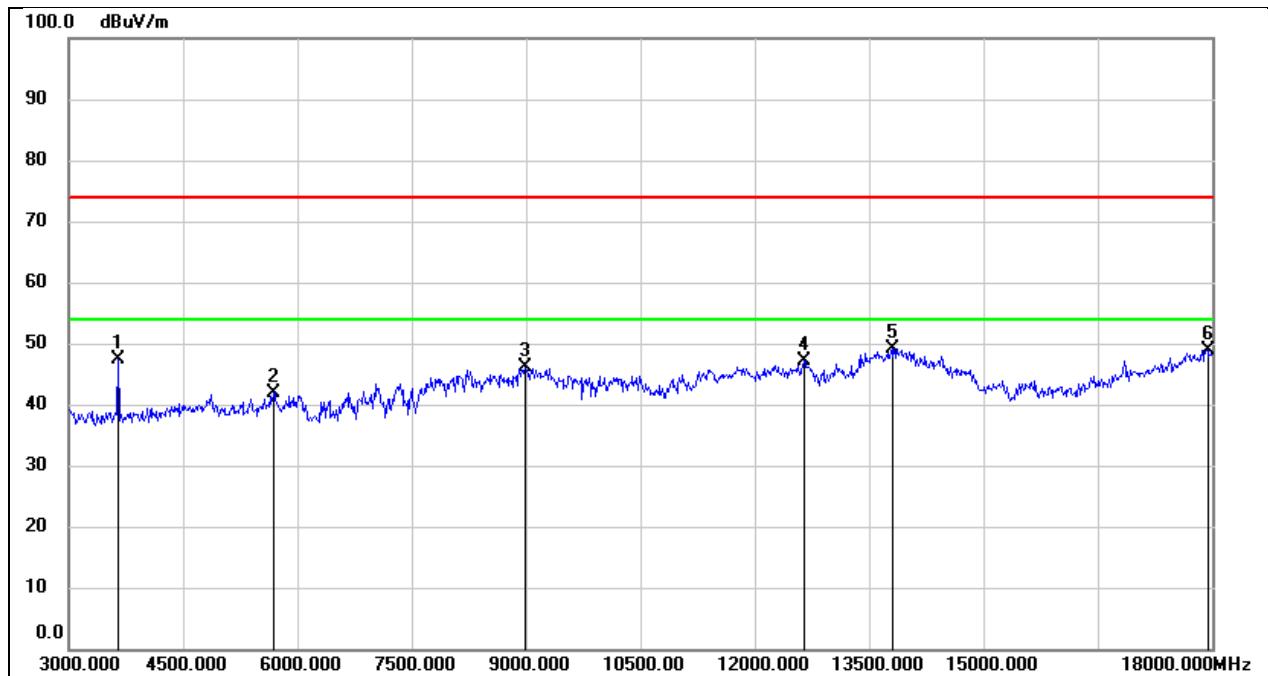
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3630.000	52.27	-3.22	49.05	74.00	-24.95	peak
2	8220.000	36.85	8.76	45.61	74.00	-28.39	peak
3	9240.000	36.28	10.10	46.38	74.00	-27.62	peak
4	12270.000	28.81	18.55	47.36	74.00	-26.64	peak
5	13860.000	26.98	22.68	49.66	74.00	-24.34	peak
6	17925.000	23.11	26.55	49.66	74.00	-24.34	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



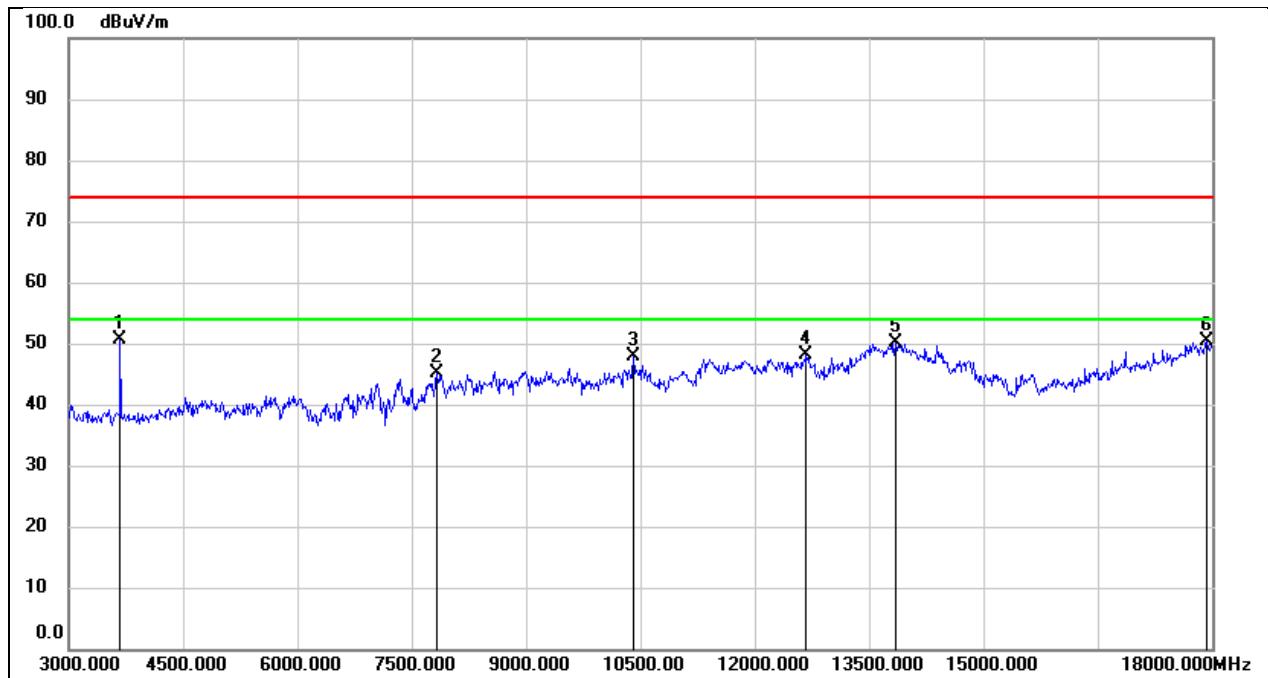
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3645.000	53.02	-3.19	49.83	74.00	-24.17	peak
2	4875.000	42.54	0.61	43.15	74.00	-30.85	peak
3	9480.000	35.94	10.72	46.66	74.00	-27.34	peak
4	11430.000	30.78	16.64	47.42	74.00	-26.58	peak
5	13920.000	27.11	22.71	49.82	74.00	-24.18	peak
6	17865.000	23.57	26.33	49.90	74.00	-24.10	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



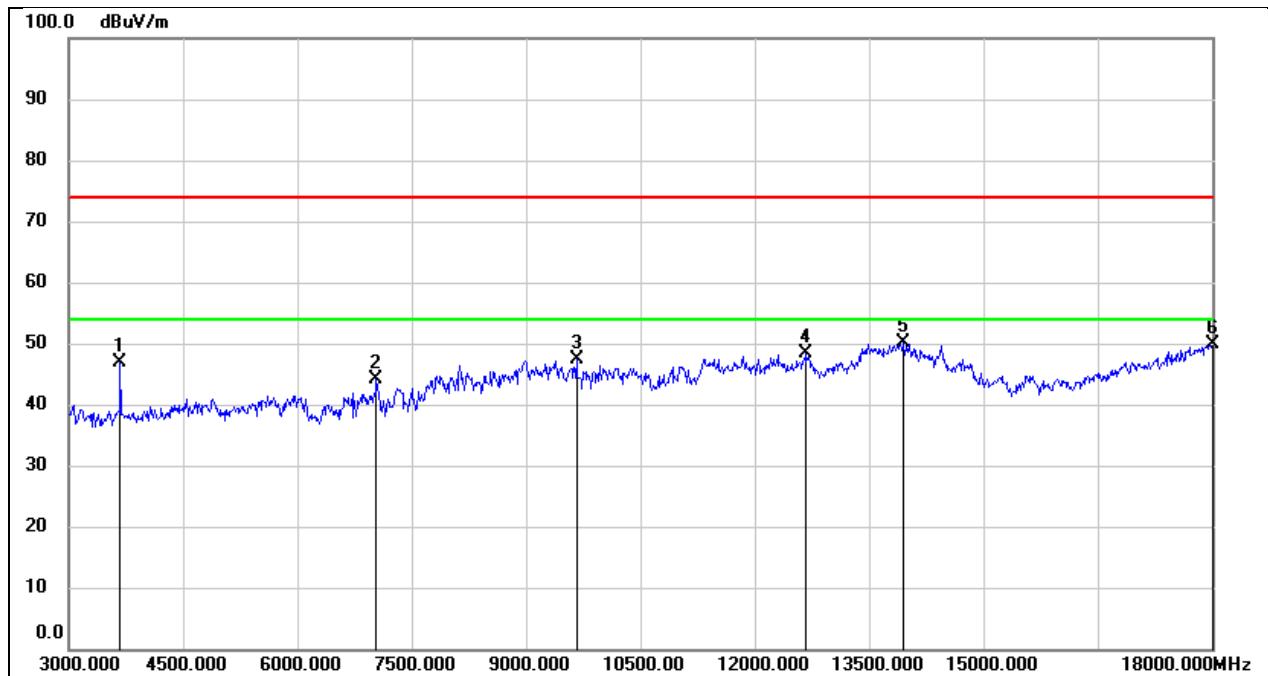
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3645.000	50.54	-3.19	47.35	74.00	-26.65	peak
2	5685.000	39.36	2.59	41.95	74.00	-32.05	peak
3	8985.000	35.08	10.97	46.05	74.00	-27.95	peak
4	12645.000	28.67	18.44	47.11	74.00	-26.89	peak
5	13800.000	26.58	22.64	49.22	74.00	-24.78	peak
6	17940.000	22.25	26.61	48.86	74.00	-25.14	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



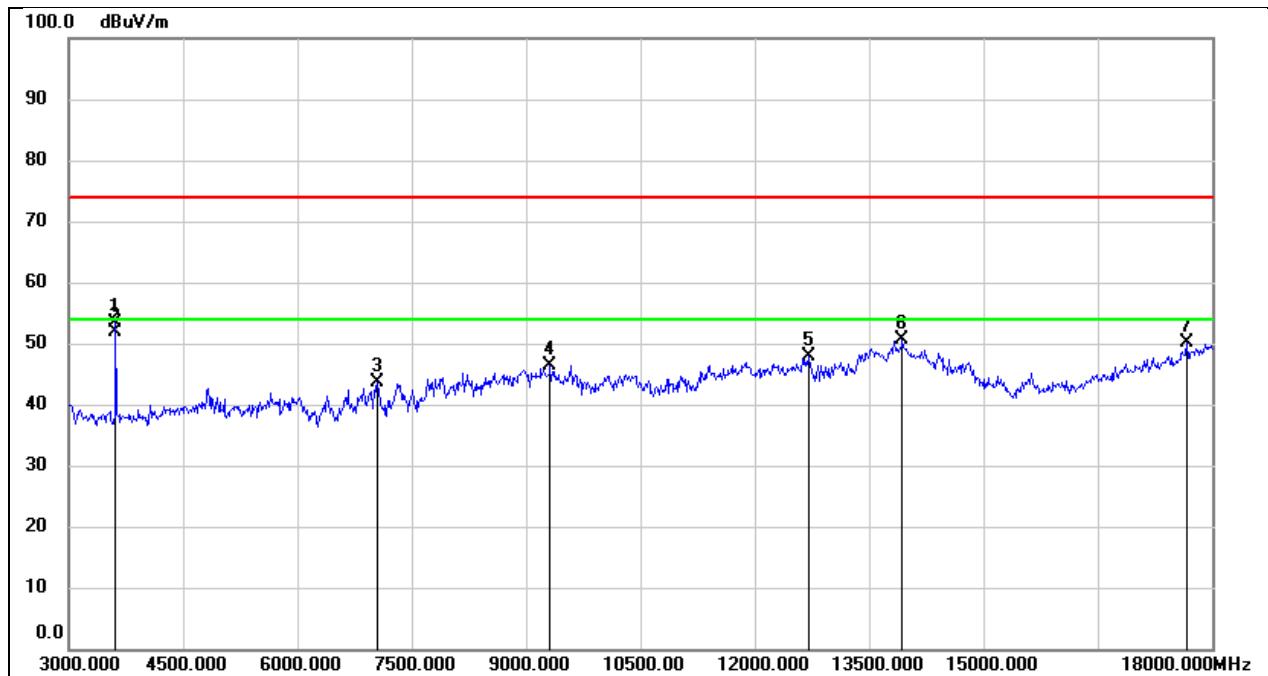
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3675.000	53.79	-3.13	50.66	74.00	-23.34	peak
2	7830.000	37.73	7.46	45.19	74.00	-28.81	peak
3	10410.000	34.31	13.48	47.79	74.00	-26.21	peak
4	12675.000	29.59	18.54	48.13	74.00	-25.87	peak
5	13845.000	27.45	22.67	50.12	74.00	-23.88	peak
6	17925.000	23.74	26.55	50.29	74.00	-23.71	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2452
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



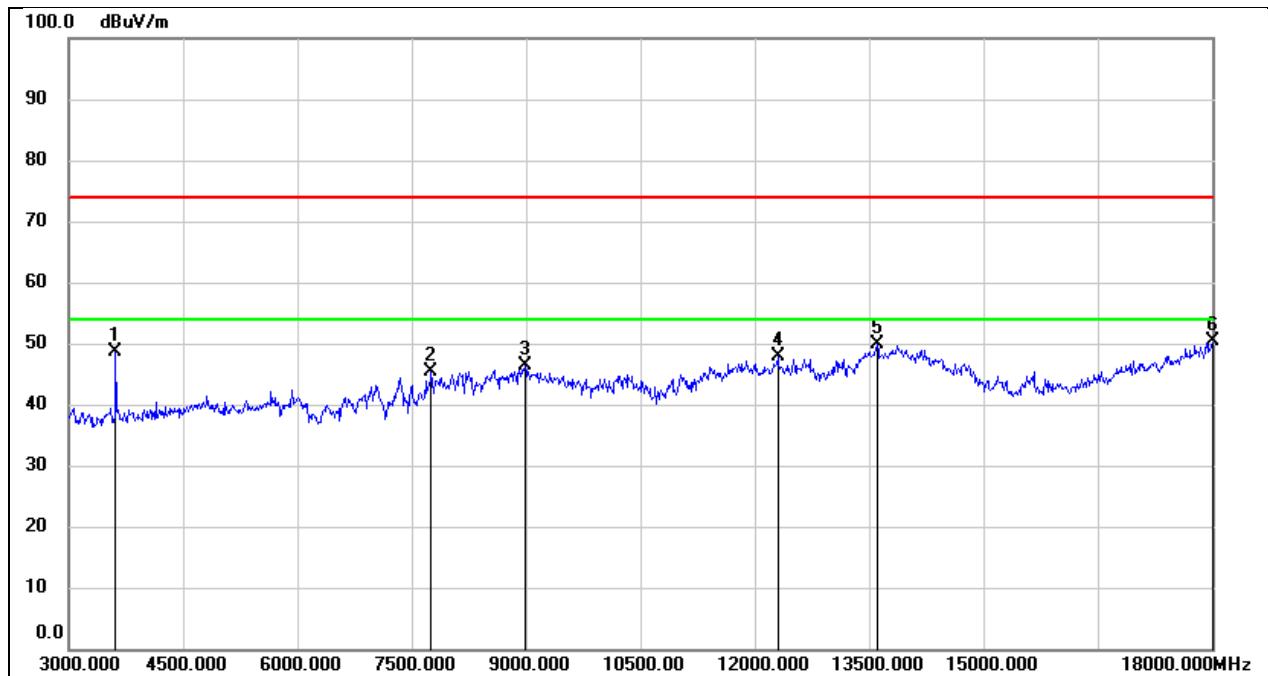
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3675.000	49.93	-3.13	46.80	74.00	-27.20	peak
2	7035.000	36.76	7.28	44.04	74.00	-29.96	peak
3	9660.000	36.15	11.19	47.34	74.00	-26.66	peak
4	12675.000	29.82	18.54	48.36	74.00	-25.64	peak
5	13950.000	27.36	22.73	50.09	74.00	-23.91	peak
6	18000.000	22.95	26.83	49.78	74.00	-24.22	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



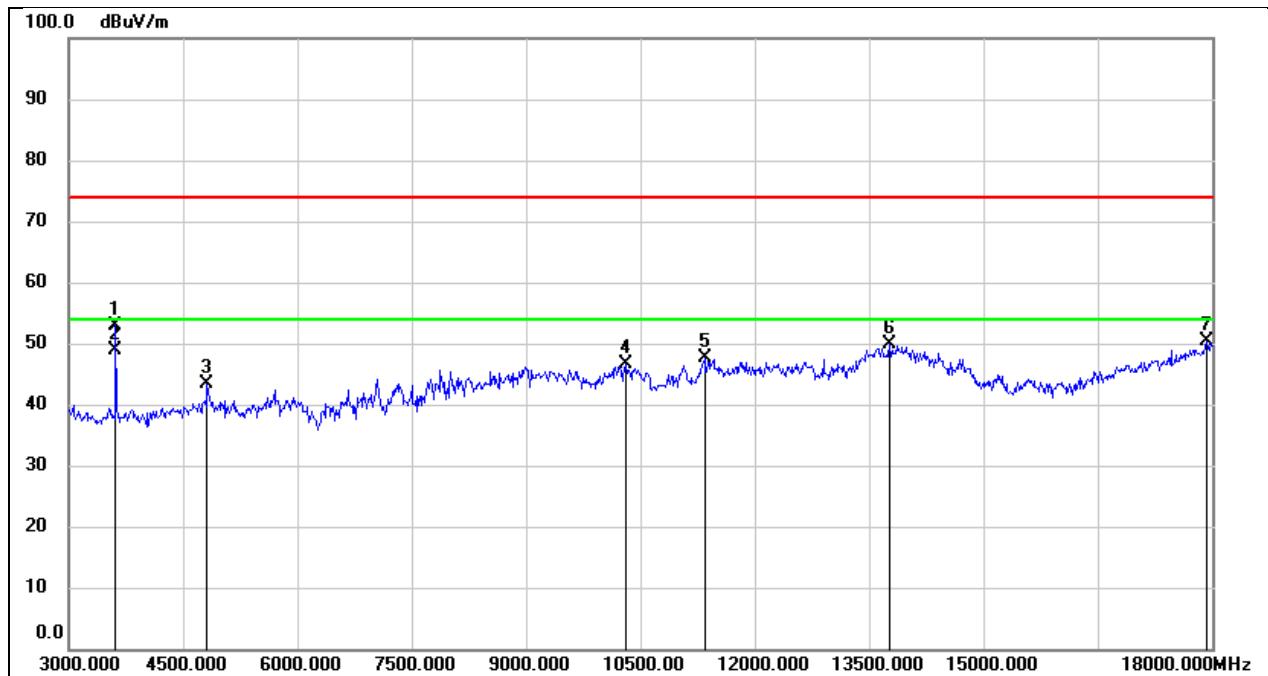
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	56.68	-3.25	53.43	74.00	-20.57	peak
2	3615.000	55.15	-3.25	51.90	54.00	-2.10	AVG
3	7050.000	36.50	7.19	43.69	74.00	-30.31	peak
4	9315.000	36.12	10.26	46.38	74.00	-27.62	peak
5	12705.000	29.16	18.66	47.82	74.00	-26.18	peak
6	13935.000	27.86	22.72	50.58	74.00	-23.42	peak
7	17670.000	25.23	24.89	50.12	74.00	-23.88	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



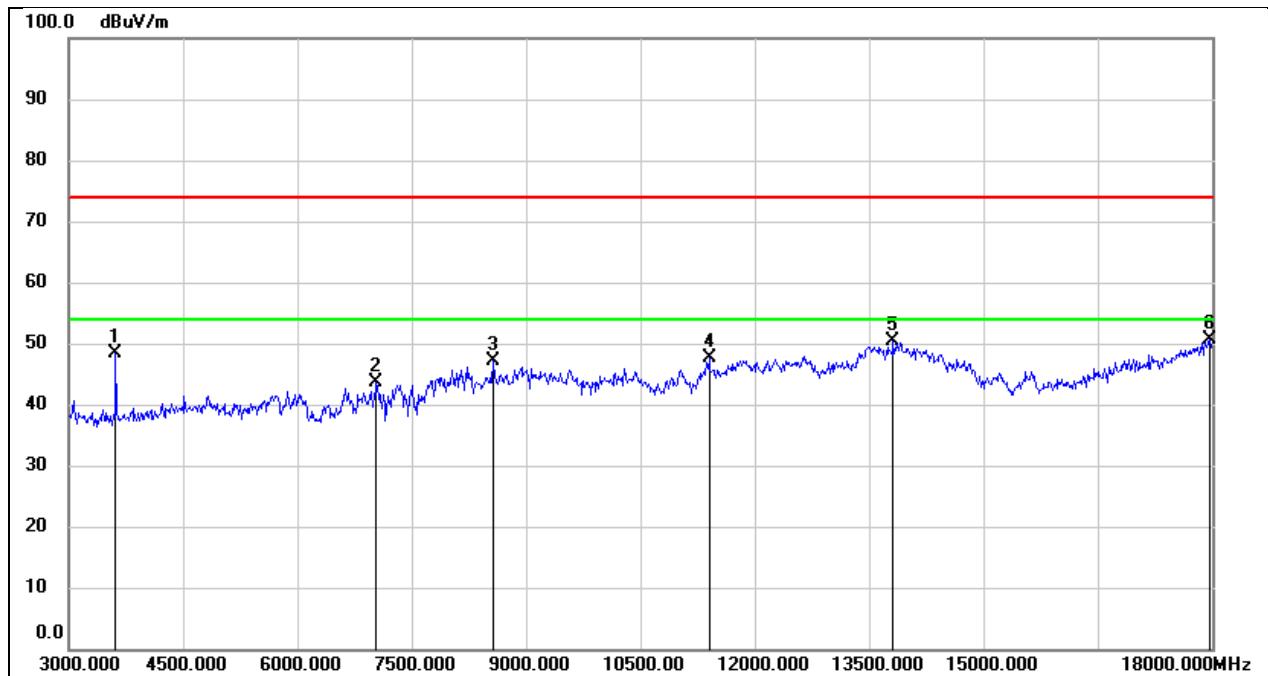
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	51.93	-3.25	48.68	74.00	-25.32	peak
2	7755.000	37.96	7.38	45.34	74.00	-28.66	peak
3	8985.000	35.37	10.97	46.34	74.00	-27.66	peak
4	12300.000	29.12	18.65	47.77	74.00	-26.23	peak
5	13605.000	28.10	21.68	49.78	74.00	-24.22	peak
6	18000.000	23.53	26.83	50.36	74.00	-23.64	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2417
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



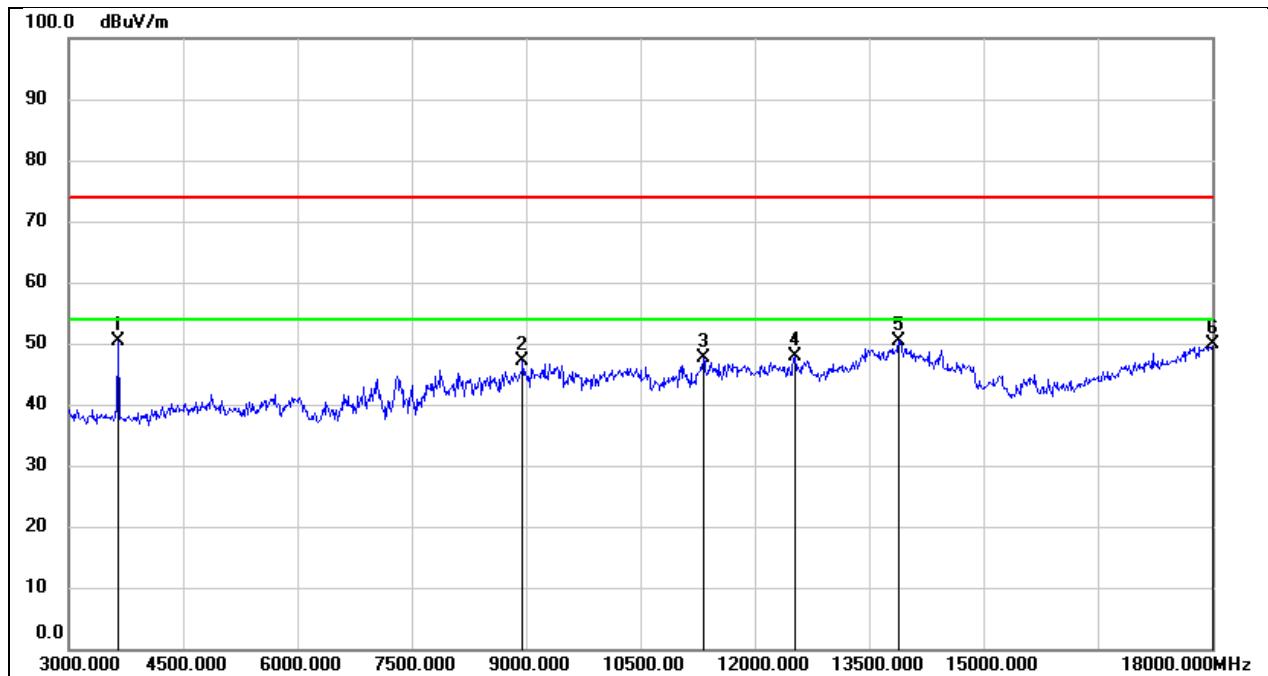
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	56.25	-3.25	53.00	74.00	-21.00	peak
2	3615.000	52.05	-3.25	48.80	54.00	-5.20	AVG
3	4815.000	42.96	0.49	43.45	74.00	-30.55	peak
4	10305.000	33.55	13.00	46.55	74.00	-27.45	peak
5	11340.000	31.55	16.19	47.74	74.00	-26.26	peak
6	13770.000	27.42	22.49	49.91	74.00	-24.09	peak
7	17925.000	23.71	26.55	50.26	74.00	-23.74	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2417
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



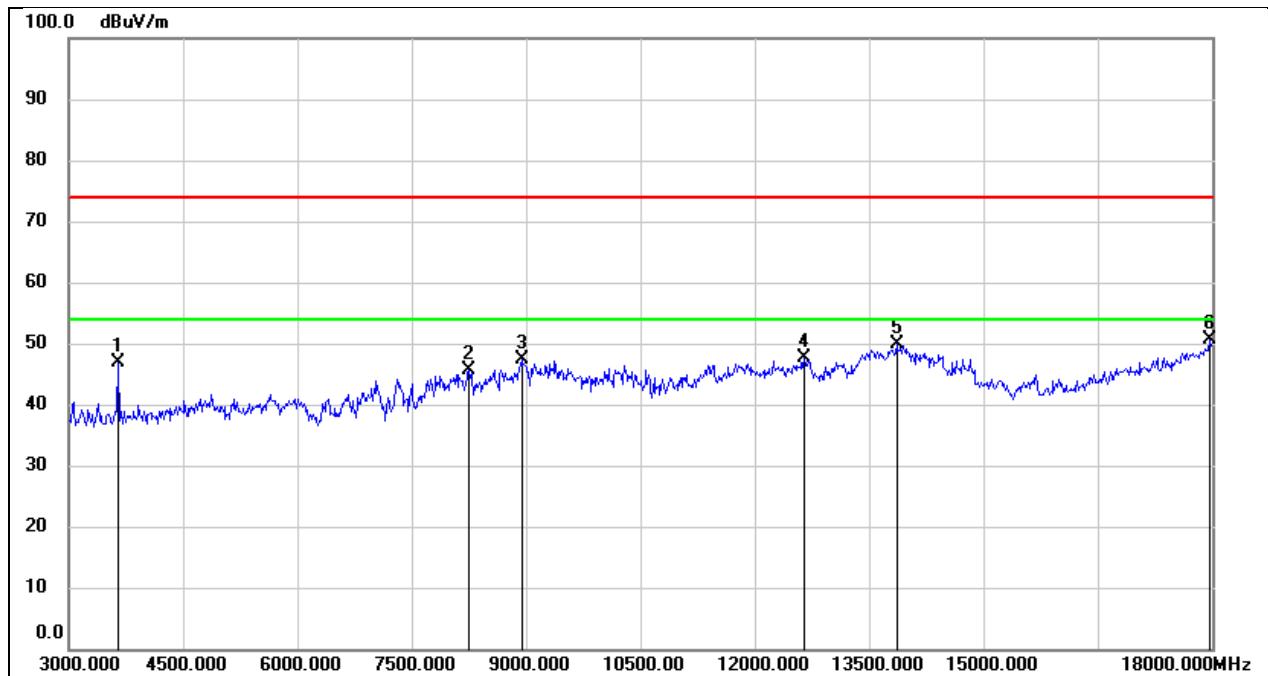
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3615.000	51.64	-3.25	48.39	74.00	-25.61	peak
2	7035.000	36.39	7.28	43.67	74.00	-30.33	peak
3	8565.000	38.59	8.55	47.14	74.00	-26.86	peak
4	11400.000	30.97	16.54	47.51	74.00	-26.49	peak
5	13815.000	27.72	22.65	50.37	74.00	-23.63	peak
6	17970.000	24.01	26.72	50.73	74.00	-23.27	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



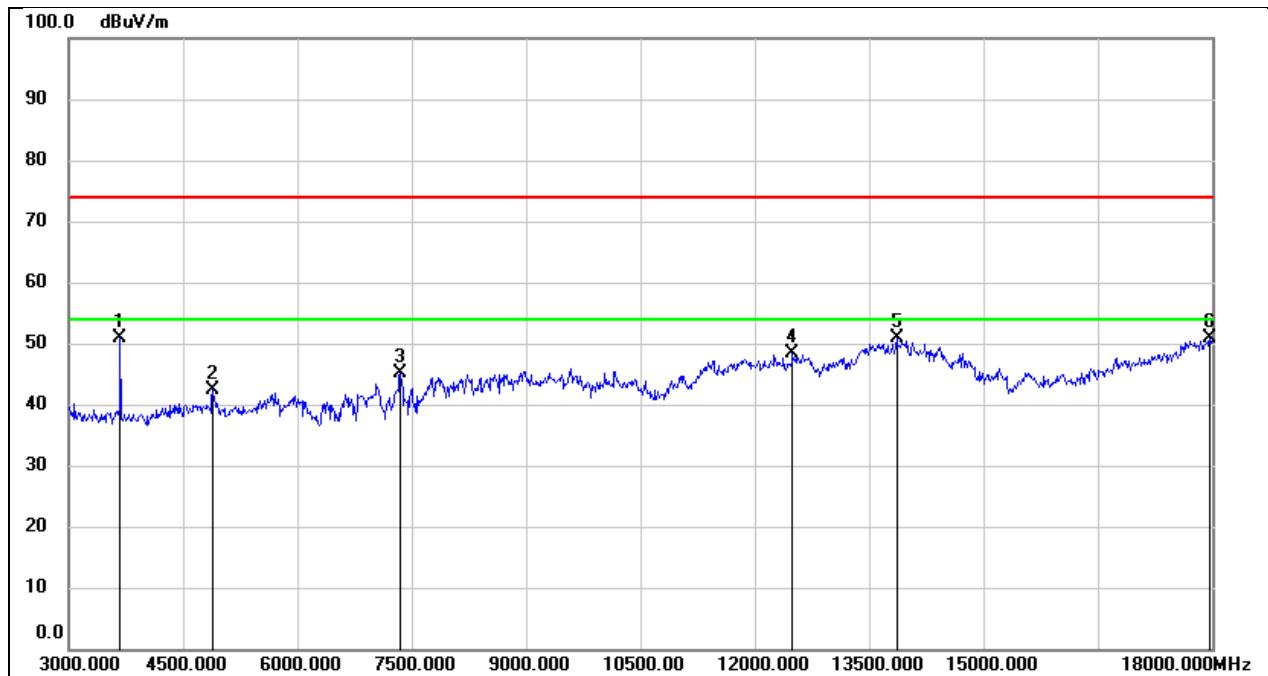
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3645.000	53.46	-3.19	50.27	74.00	-23.73	peak
2	8955.000	36.45	10.56	47.01	74.00	-26.99	peak
3	11325.000	31.51	16.10	47.61	74.00	-26.39	peak
4	12525.000	29.48	18.47	47.95	74.00	-26.05	peak
5	13890.000	27.72	22.69	50.41	74.00	-23.59	peak
6	18000.000	23.16	26.83	49.99	74.00	-24.01	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



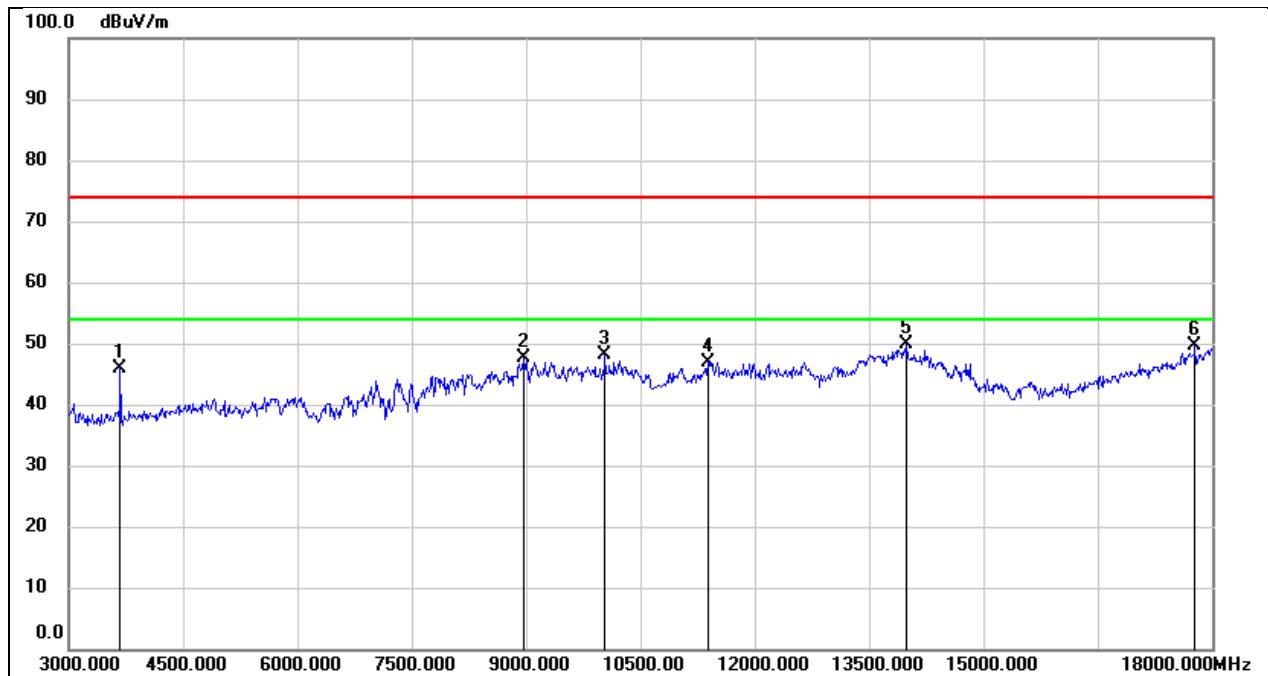
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3645.000	50.08	-3.19	46.89	74.00	-27.11	peak
2	8250.000	37.09	8.61	45.70	74.00	-28.30	peak
3	8940.000	36.94	10.35	47.29	74.00	-26.71	peak
4	12645.000	29.13	18.44	47.57	74.00	-26.43	peak
5	13860.000	27.26	22.68	49.94	74.00	-24.06	peak
6	17970.000	23.87	26.72	50.59	74.00	-23.41	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



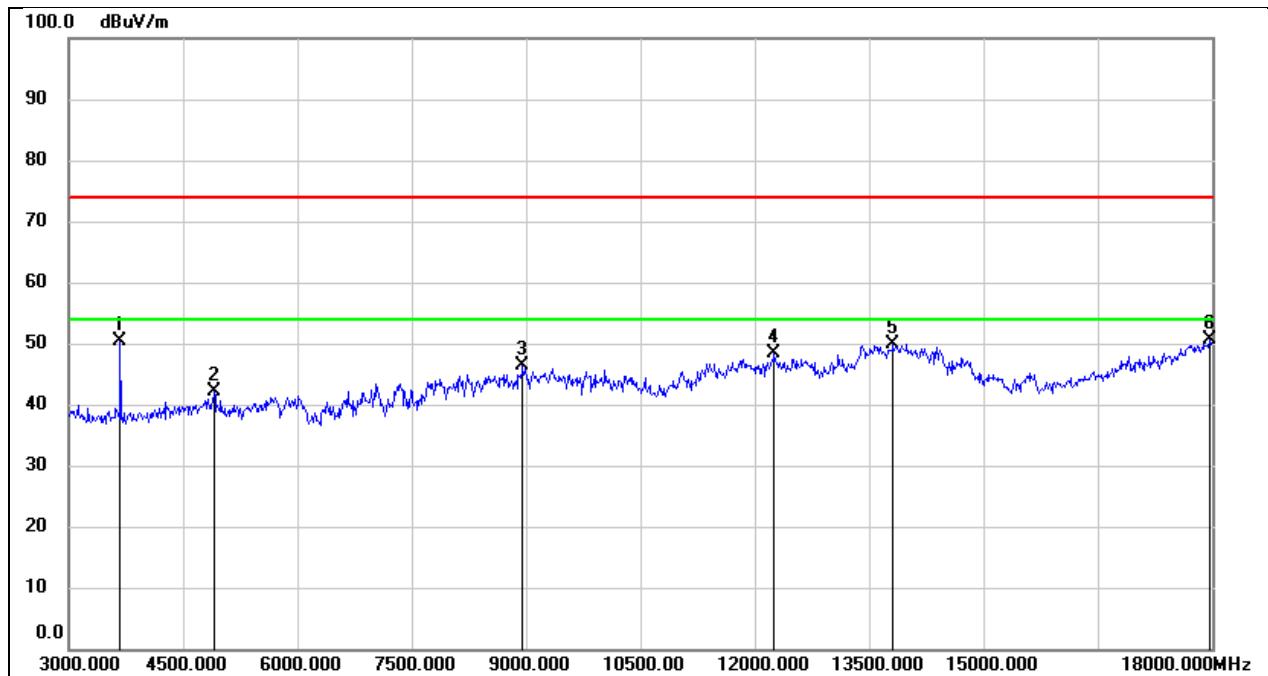
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3675.000	54.08	-3.13	50.95	74.00	-23.05	peak
2	4890.000	41.73	0.64	42.37	74.00	-31.63	peak
3	7350.000	38.02	7.17	45.19	74.00	-28.81	peak
4	12495.000	29.75	18.56	48.31	74.00	-25.69	peak
5	13860.000	28.13	22.68	50.81	74.00	-23.19	peak
6	17970.000	24.17	26.72	50.89	74.00	-23.11	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2452
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



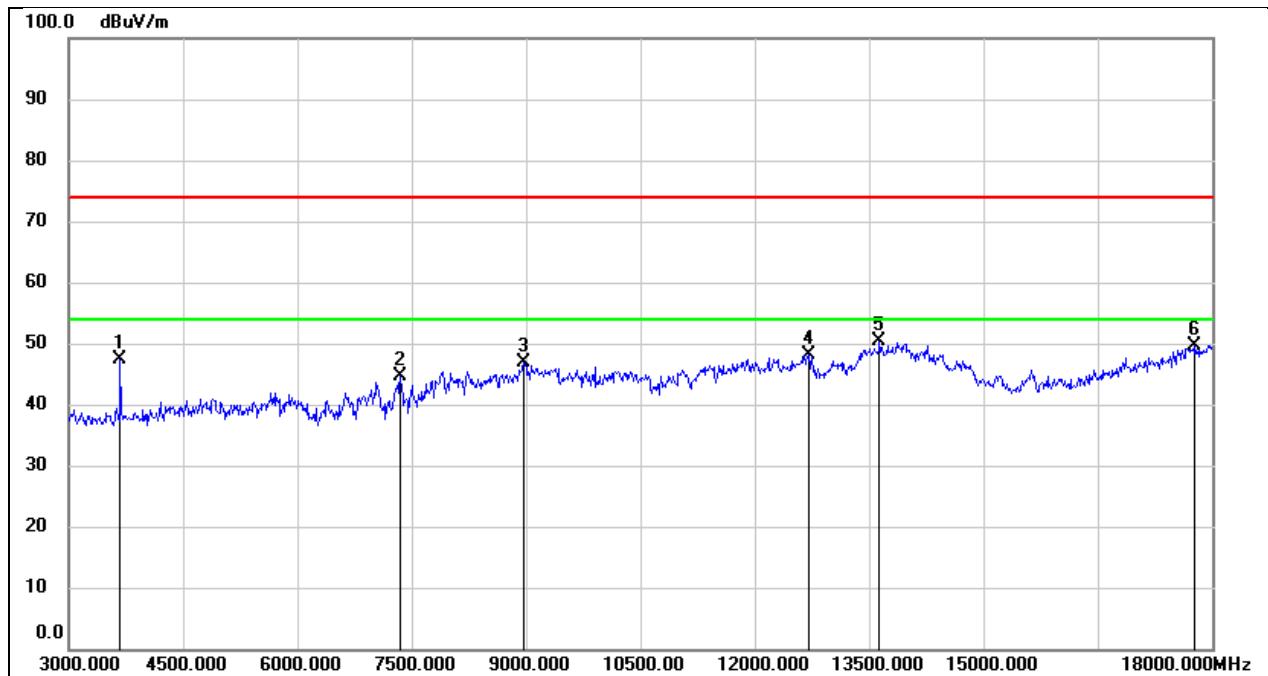
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3675.000	49.13	-3.13	46.00	74.00	-28.00	peak
2	8970.000	36.95	10.75	47.70	74.00	-26.30	peak
3	10035.000	35.54	12.48	48.02	74.00	-25.98	peak
4	11385.000	30.54	16.45	46.99	74.00	-27.01	peak
5	13995.000	27.19	22.76	49.95	74.00	-24.05	peak
6	17775.000	23.87	25.86	49.73	74.00	-24.27	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2457
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



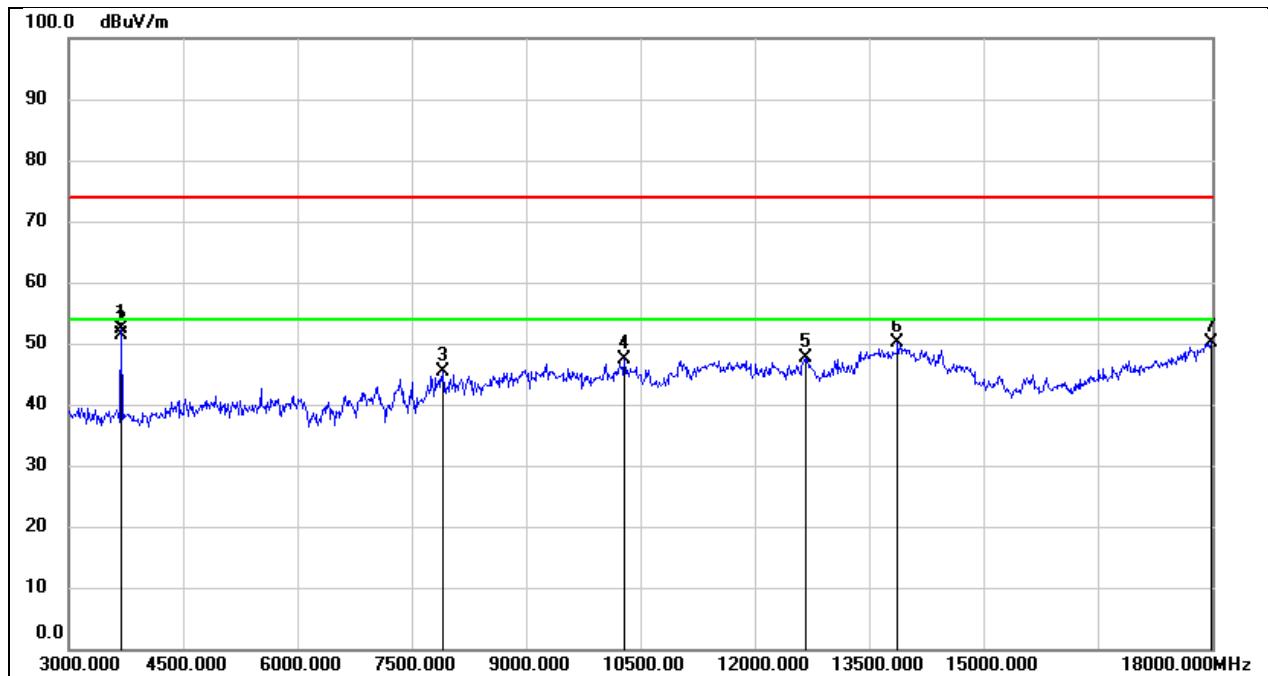
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3675.000	53.41	-3.13	50.28	74.00	-23.72	peak
2	4905.000	41.37	0.66	42.03	74.00	-31.97	peak
3	8955.000	35.73	10.56	46.29	74.00	-27.71	peak
4	12255.000	30.00	18.50	48.50	74.00	-25.50	peak
5	13815.000	27.34	22.65	49.99	74.00	-24.01	peak
6	17970.000	23.95	26.72	50.67	74.00	-23.33	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2457
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



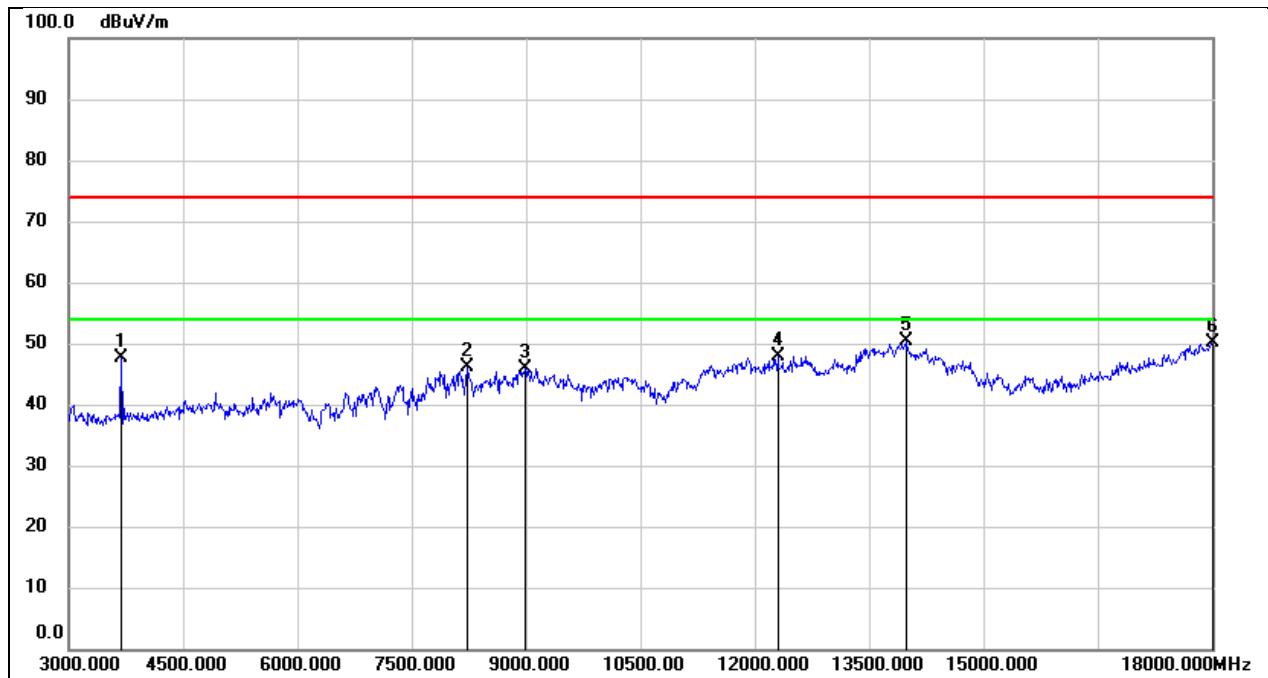
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3675.000	50.41	-3.13	47.28	74.00	-26.72	peak
2	7350.000	37.52	7.17	44.69	74.00	-29.31	peak
3	8970.000	36.05	10.75	46.80	74.00	-27.20	peak
4	12705.000	29.53	18.66	48.19	74.00	-25.81	peak
5	13635.000	28.57	21.83	50.40	74.00	-23.60	peak
6	17775.000	23.84	25.86	49.70	74.00	-24.30	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



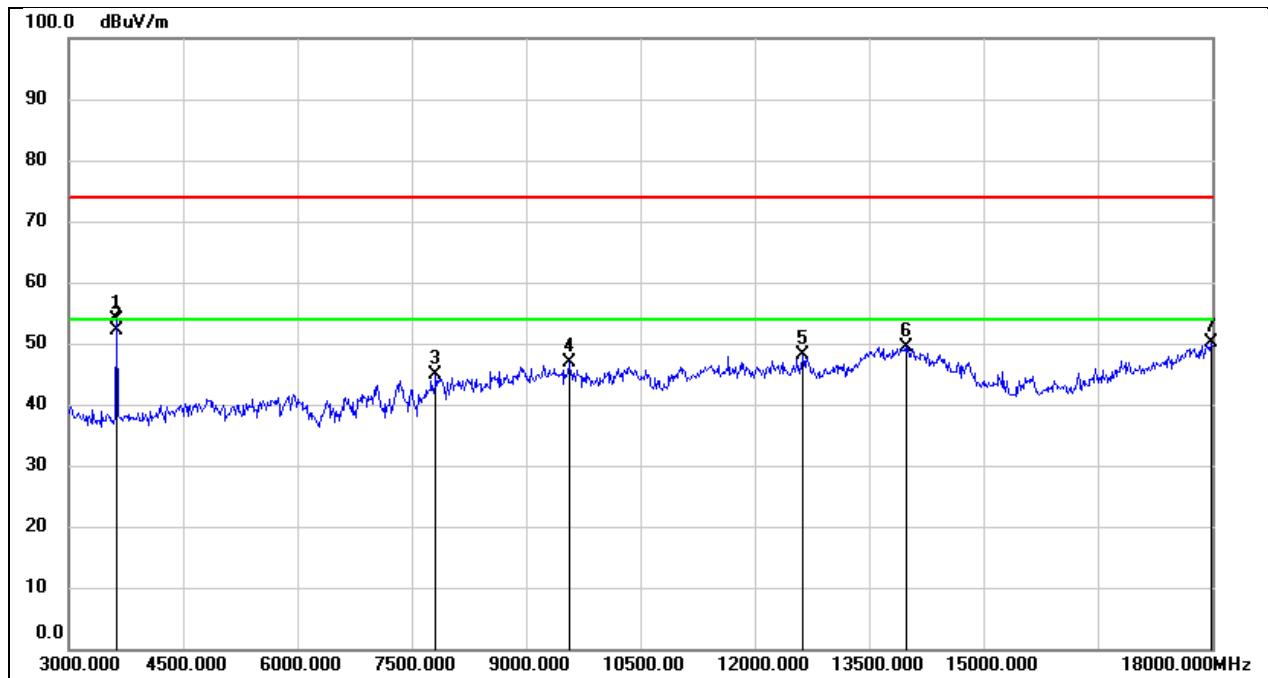
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	55.56	-3.10	52.46	74.00	-21.54	peak
2	3690.000	54.60	-3.10	51.50	54.00	-2.50	AVG
3	7905.000	38.23	7.25	45.48	74.00	-28.52	peak
4	10290.000	34.38	12.93	47.31	74.00	-26.69	peak
5	12660.000	29.07	18.49	47.56	74.00	-26.44	peak
6	13875.000	27.35	22.68	50.03	74.00	-23.97	peak
7	17985.000	23.42	26.77	50.19	74.00	-23.81	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



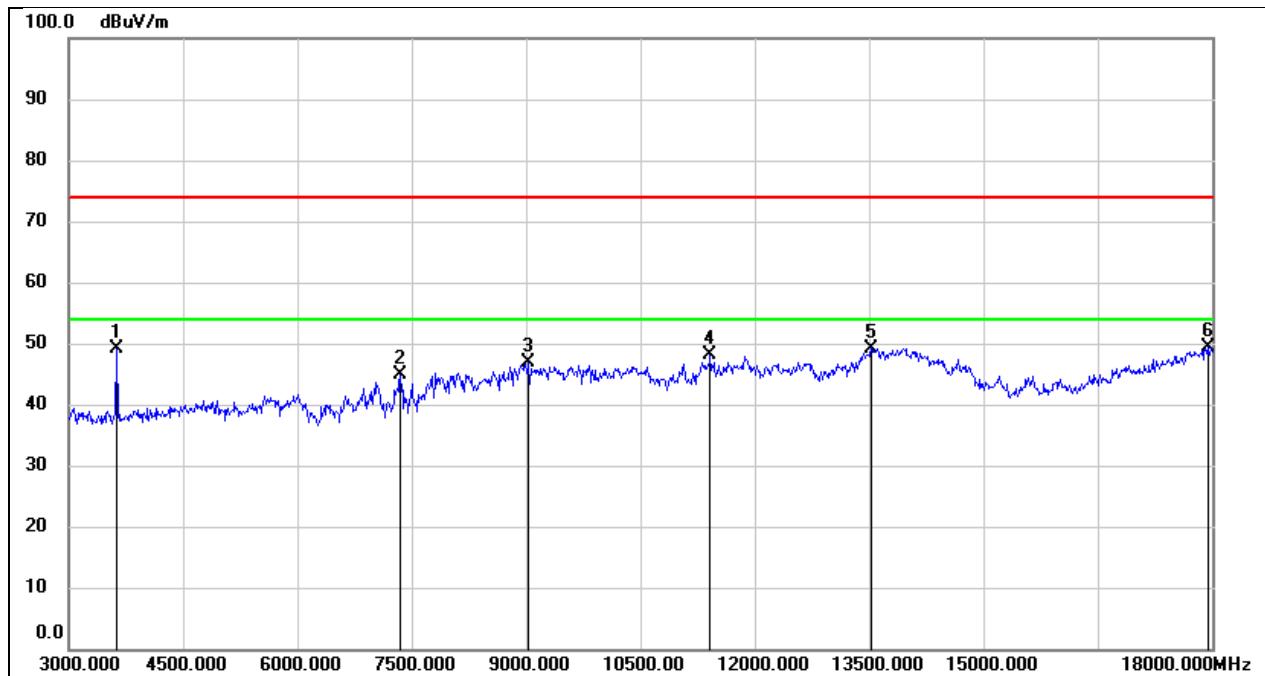
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3690.000	50.73	-3.10	47.63	74.00	-26.37	peak
2	8235.000	37.34	8.70	46.04	74.00	-27.96	peak
3	8985.000	35.03	10.97	46.00	74.00	-28.00	peak
4	12300.000	29.29	18.65	47.94	74.00	-26.06	peak
5	13980.000	27.70	22.75	50.45	74.00	-23.55	peak
6	18000.000	23.37	26.83	50.20	74.00	-23.80	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



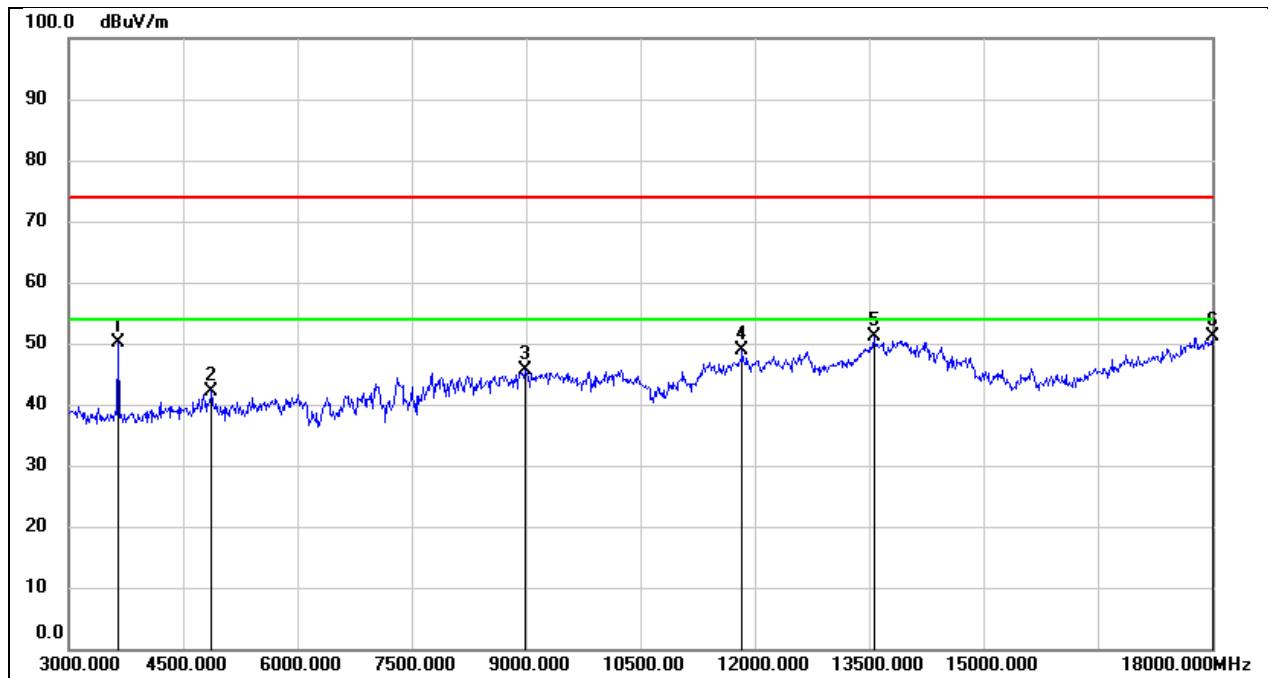
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3630.000	57.14	-3.22	53.92	74.00	-20.08	peak
2	3630.000	55.32	-3.22	52.10	54.00	-1.90	AVG
3	7815.000	37.35	7.50	44.85	74.00	-29.15	peak
4	9570.000	35.97	10.98	46.95	74.00	-27.05	peak
5	12630.000	29.74	18.39	48.13	74.00	-25.87	peak
6	13995.000	26.67	22.76	49.43	74.00	-24.57	peak
7	17985.000	23.37	26.77	50.14	74.00	-23.86	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



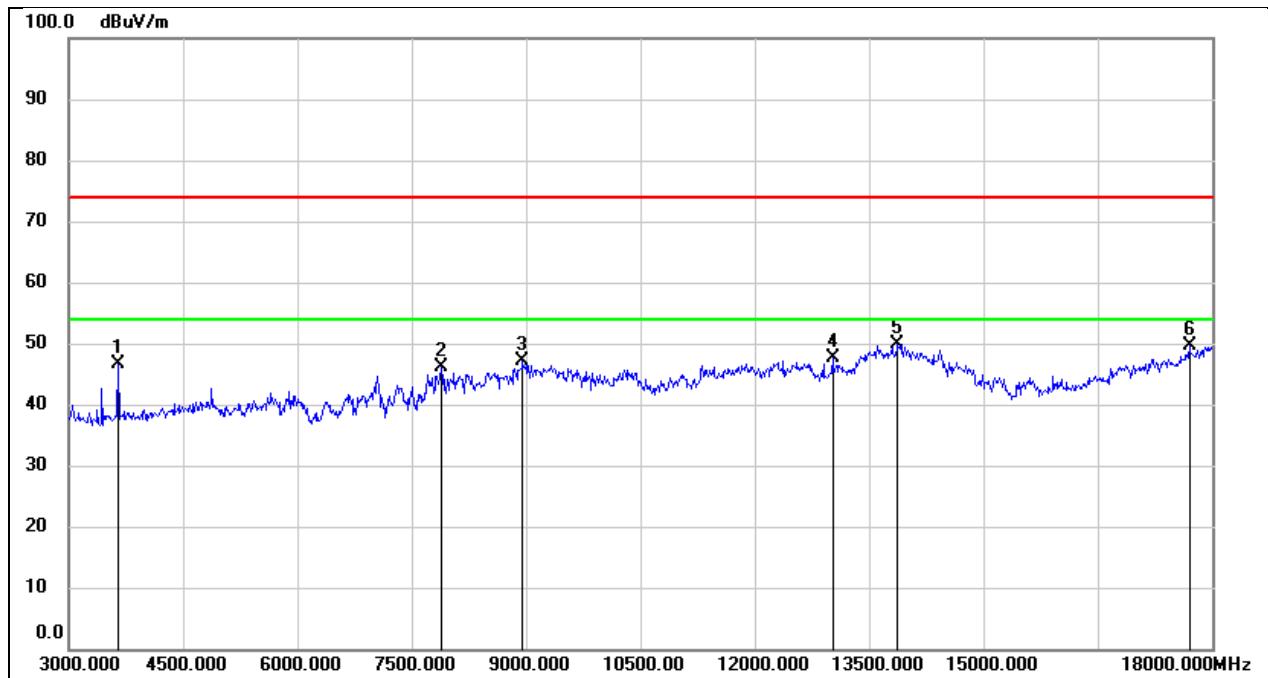
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3630.000	52.32	-3.22	49.10	74.00	-24.90	peak
2	7350.000	37.67	7.17	44.84	74.00	-29.16	peak
3	9030.000	35.76	11.00	46.76	74.00	-27.24	peak
4	11415.000	31.64	16.59	48.23	74.00	-25.77	peak
5	13530.000	27.57	21.68	49.25	74.00	-24.75	peak
6	17940.000	22.83	26.61	49.44	74.00	-24.56	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



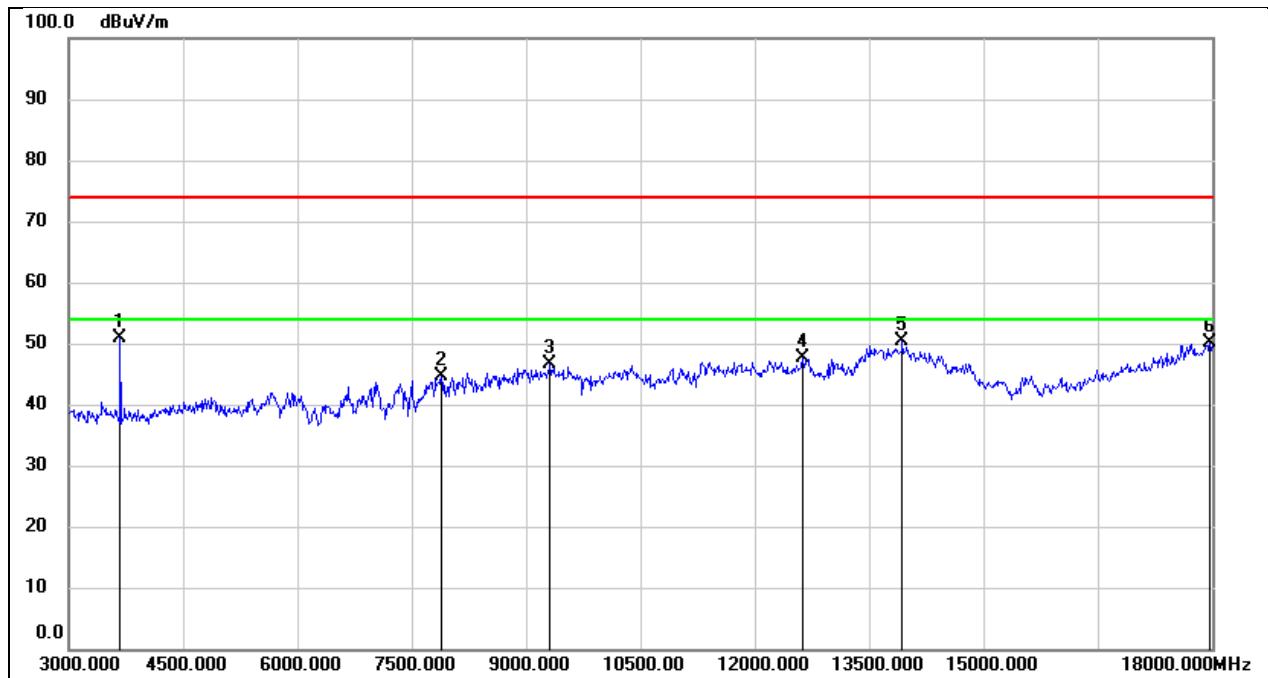
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3645.000	53.37	-3.19	50.18	74.00	-23.82	peak
2	4875.000	41.64	0.61	42.25	74.00	-31.75	peak
3	8985.000	34.66	10.97	45.63	74.00	-28.37	peak
4	11835.000	31.11	17.79	48.90	74.00	-25.10	peak
5	13560.000	29.40	21.67	51.07	74.00	-22.93	peak
6	18000.000	24.41	26.83	51.24	74.00	-22.76	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



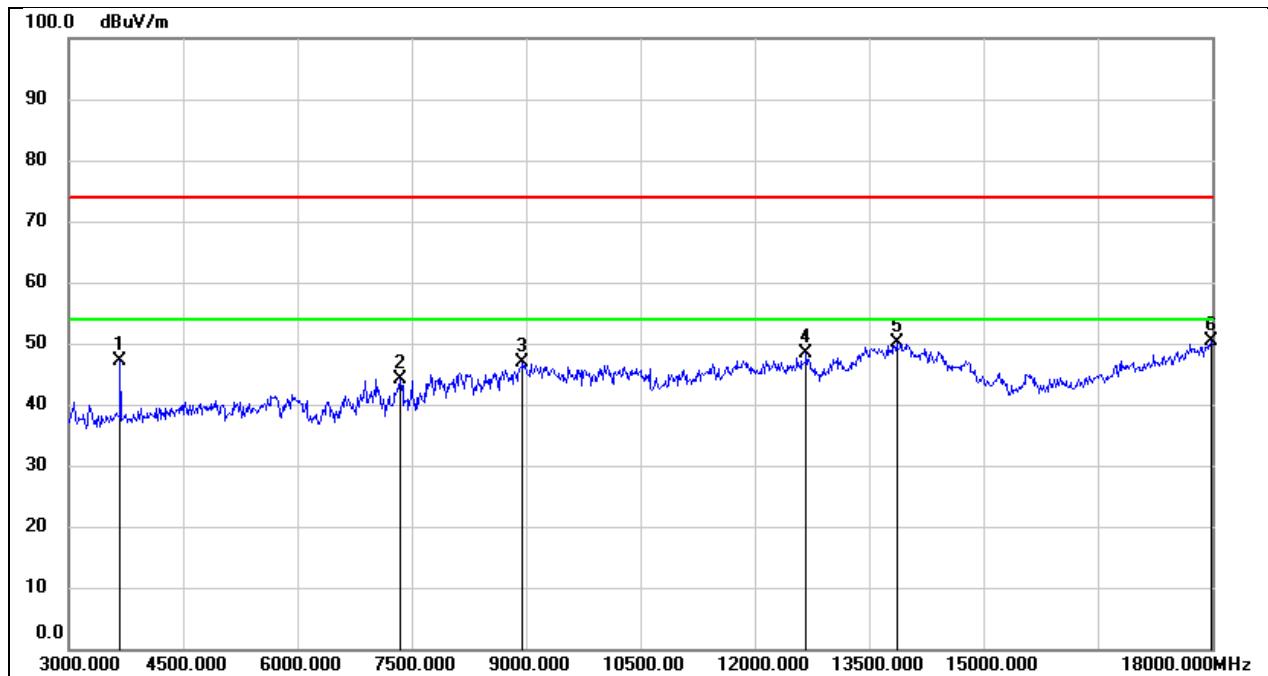
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3645.000	49.81	-3.19	46.62	74.00	-27.38	peak
2	7890.000	38.76	7.29	46.05	74.00	-27.95	peak
3	8955.000	36.65	10.56	47.21	74.00	-26.79	peak
4	13020.000	28.40	19.19	47.59	74.00	-26.41	peak
5	13875.000	27.25	22.68	49.93	74.00	-24.07	peak
6	17700.000	24.56	25.17	49.73	74.00	-24.27	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3675.000	53.90	-3.13	50.77	74.00	-23.23	peak
2	7890.000	37.37	7.29	44.66	74.00	-29.34	peak
3	9315.000	36.44	10.26	46.70	74.00	-27.30	peak
4	12630.000	29.23	18.39	47.62	74.00	-26.38	peak
5	13935.000	27.67	22.72	50.39	74.00	-23.61	peak
6	17970.000	23.41	26.72	50.13	74.00	-23.87	peak

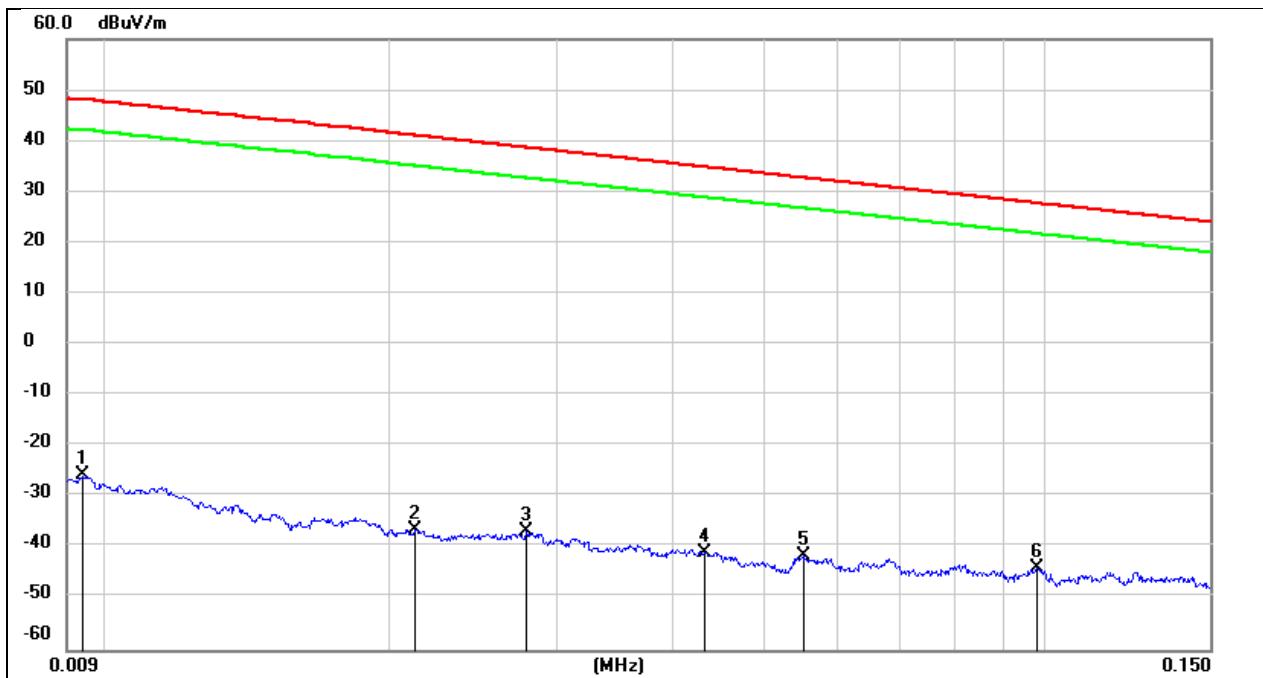
Test Mode:	802.11ax HE40	Frequency(MHz):	2452
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3675.000	50.24	-3.13	47.11	74.00	-26.89	peak
2	7350.000	36.91	7.17	44.08	74.00	-29.92	peak
3	8955.000	36.38	10.56	46.94	74.00	-27.06	peak
4	12675.000	29.78	18.54	48.32	74.00	-25.68	peak
5	13860.000	27.39	22.68	50.07	74.00	-23.93	peak
6	17985.000	23.57	26.77	50.34	74.00	-23.66	peak

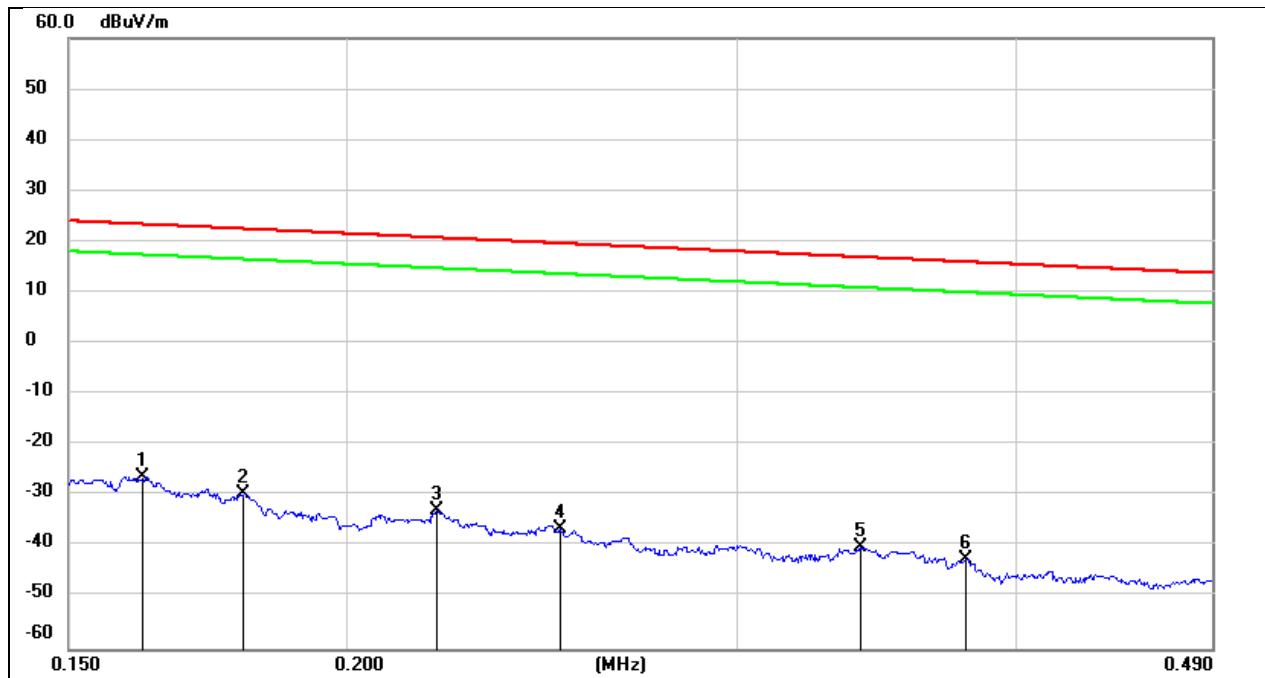
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



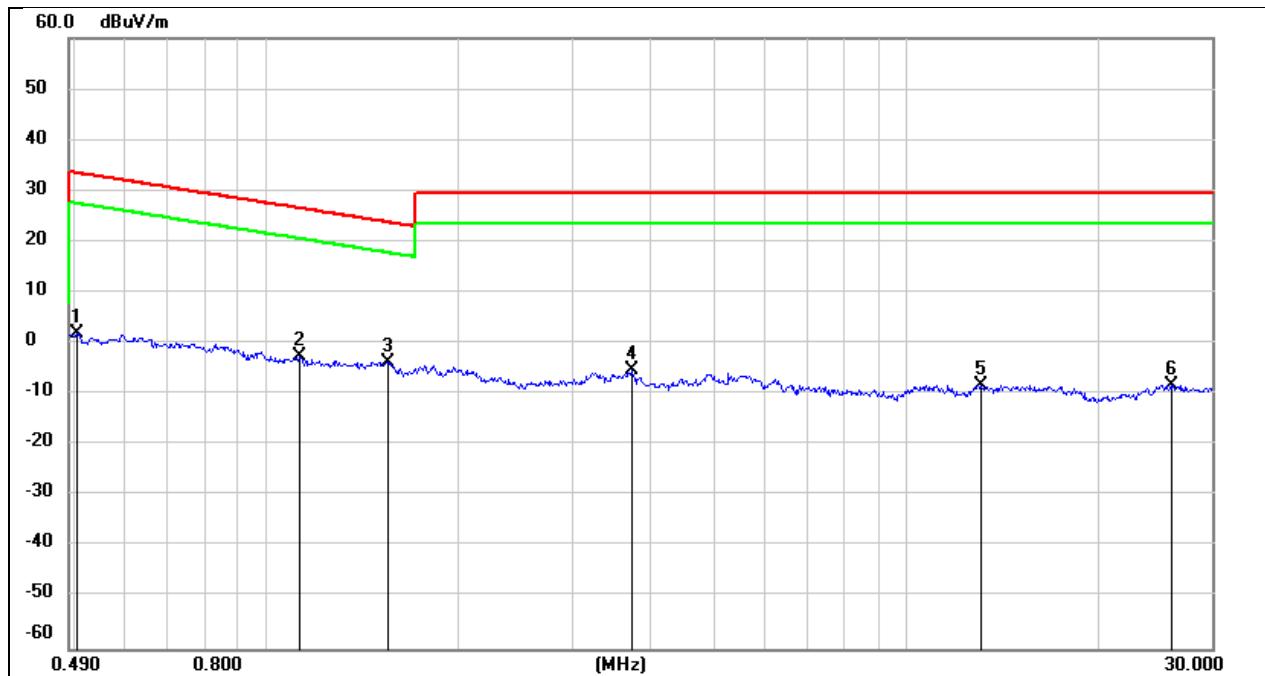
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0094	75.57	-101.35	-25.78	48.05	-73.83	peak
2	0.0212	65.04	-101.35	-36.31	41.07	-77.38	peak
3	0.0279	64.67	-101.38	-36.71	38.69	-75.40	peak
4	0.0432	60.57	-101.45	-40.88	34.89	-75.77	peak
5	0.0551	59.95	-101.50	-41.55	32.78	-74.33	peak
6	0.0981	57.77	-101.78	-44.01	27.77	-71.78	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1621	75.42	-101.65	-26.23	23.41	-49.64	peak
2	0.1800	72.12	-101.68	-29.56	22.50	-52.06	peak
3	0.2197	68.77	-101.75	-32.98	20.76	-53.74	peak
4	0.2494	65.46	-101.80	-36.34	19.66	-56.00	peak
5	0.3402	61.74	-101.90	-40.16	16.97	-57.13	peak
6	0.3800	59.52	-101.94	-42.42	16.01	-58.43	peak

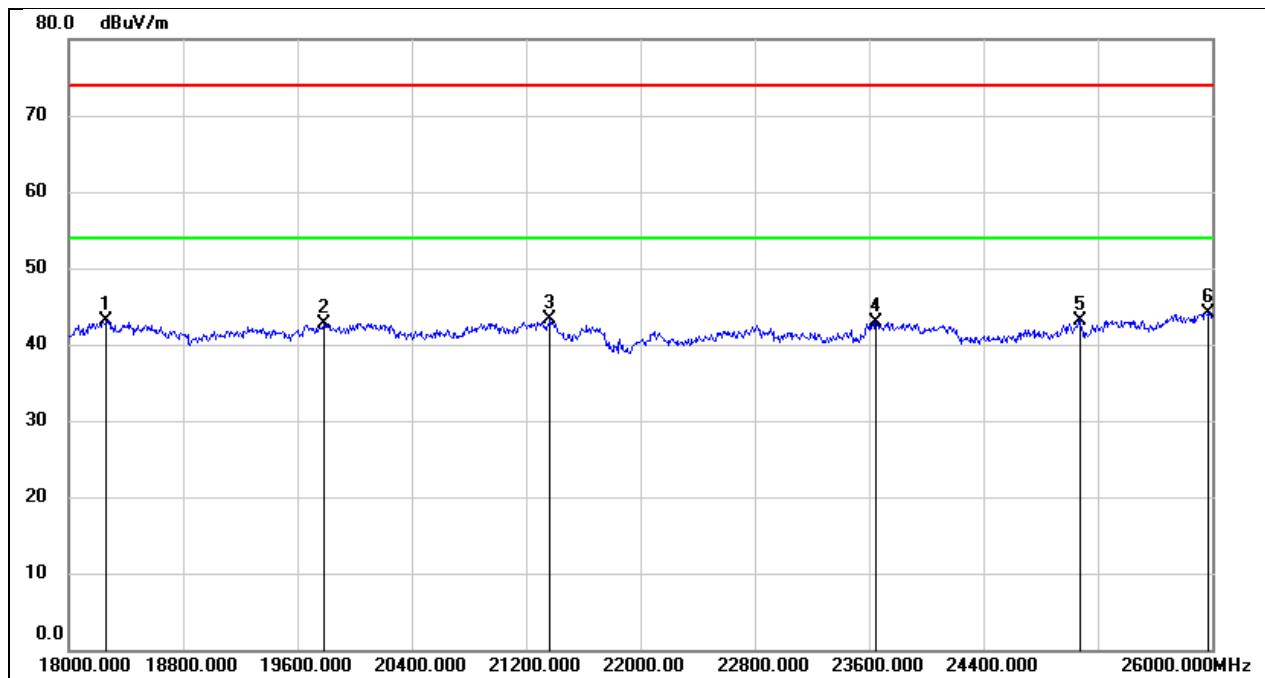
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5039	63.93	-62.07	1.86	33.56	-31.70	peak
2	1.1250	59.56	-62.21	-2.65	26.58	-29.23	peak
3	1.5443	58.35	-62.03	-3.68	23.83	-27.51	peak
4	3.7100	56.20	-61.41	-5.21	29.54	-34.75	peak
5	13.0907	52.63	-60.93	-8.30	29.54	-37.84	peak
6	25.8978	52.26	-60.36	-8.10	29.54	-37.64	peak

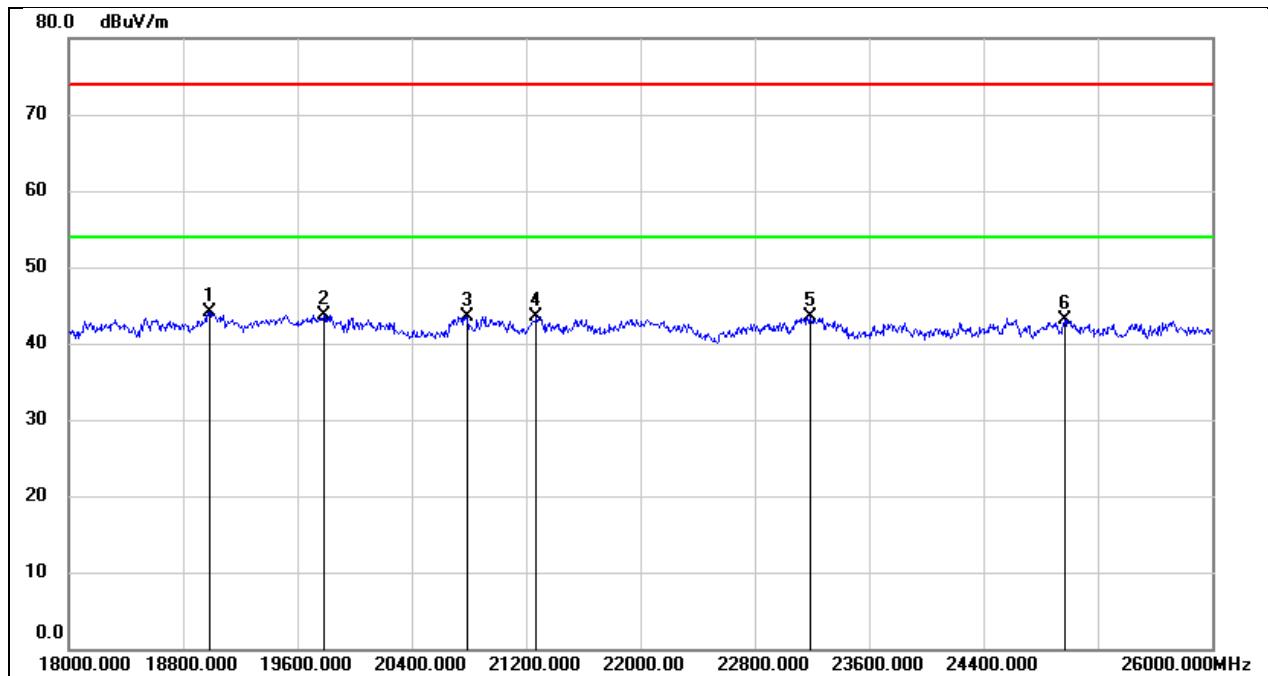
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18264.000	48.65	-5.53	43.12	74.00	-30.88	peak
2	19784.000	48.08	-5.28	42.80	74.00	-31.20	peak
3	21368.000	47.95	-4.73	43.22	74.00	-30.78	peak
4	23648.000	46.07	-3.18	42.89	74.00	-31.11	peak
5	25072.000	45.17	-1.97	43.20	74.00	-30.80	peak
6	25968.000	45.13	-1.00	44.13	74.00	-29.87	peak

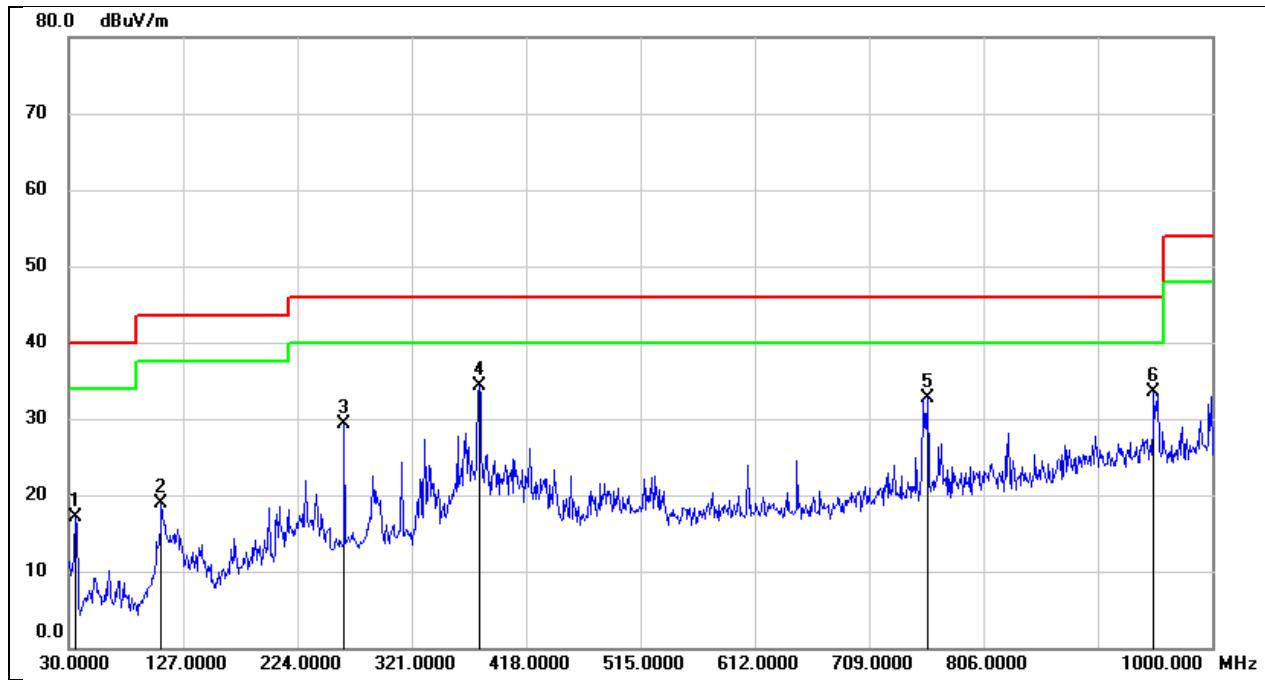
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18984.000	49.29	-5.23	44.06	74.00	-29.94	peak
2	19784.000	49.07	-5.28	43.79	74.00	-30.21	peak
3	20792.000	48.66	-5.07	43.59	74.00	-30.41	peak
4	21272.000	48.25	-4.76	43.49	74.00	-30.51	peak
5	23184.000	46.86	-3.38	43.48	74.00	-30.52	peak
6	24968.000	45.26	-2.14	43.12	74.00	-30.88	peak

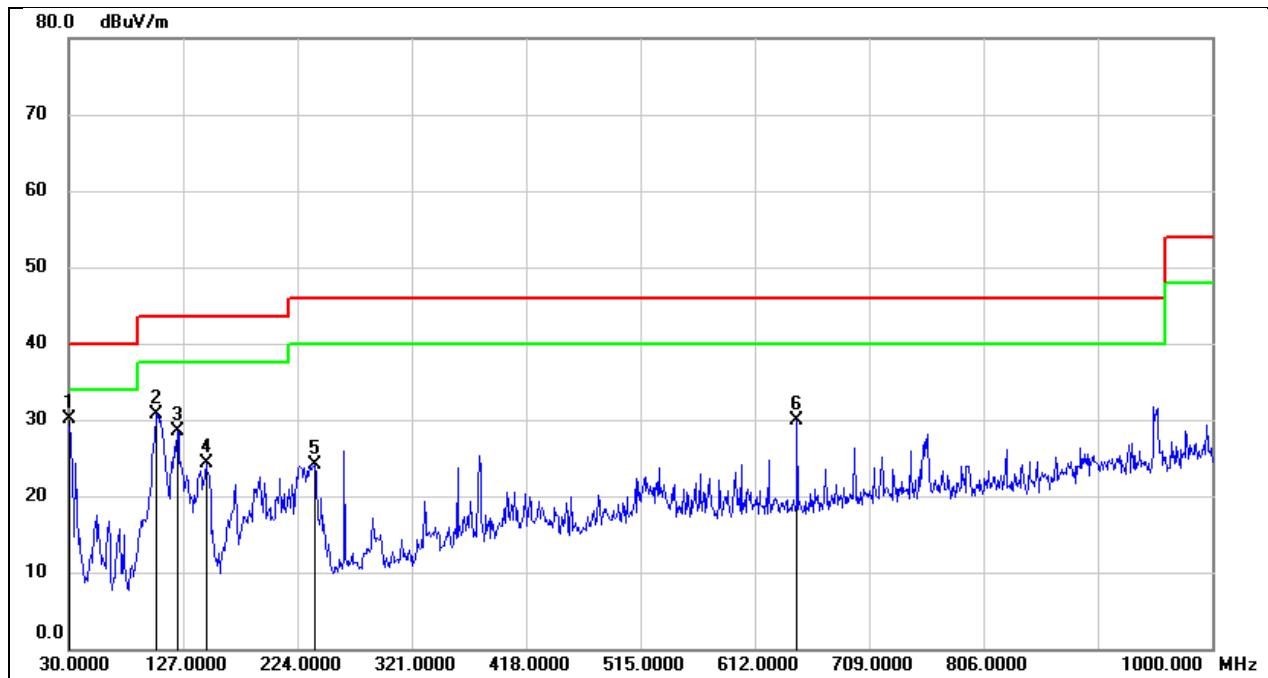
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	35.8200	31.92	-14.88	17.04	40.00	-22.96	QP
2	108.5700	34.39	-15.53	18.86	43.50	-24.64	QP
3	263.7700	43.10	-13.74	29.36	46.00	-16.64	QP
4	378.2300	44.05	-9.81	34.24	46.00	-11.76	QP
5	758.4699	36.11	-3.41	32.70	46.00	-13.30	QP
6	950.5300	35.05	-1.62	33.43	46.00	-12.57	QP

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	44.07	-14.04	30.03	40.00	-9.97	QP
2	104.6900	46.47	-15.81	30.66	43.50	-12.84	QP
3	122.1500	43.34	-14.75	28.59	43.50	-14.91	QP
4	146.4000	37.87	-13.65	24.22	43.50	-19.28	QP
5	238.5500	38.09	-13.95	24.14	46.00	-21.86	QP
6	647.8900	36.05	-6.05	30.00	46.00	-16.00	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).

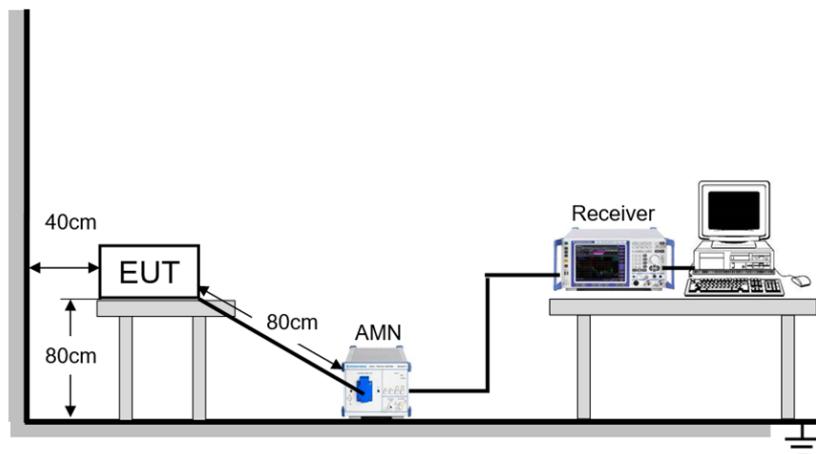
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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

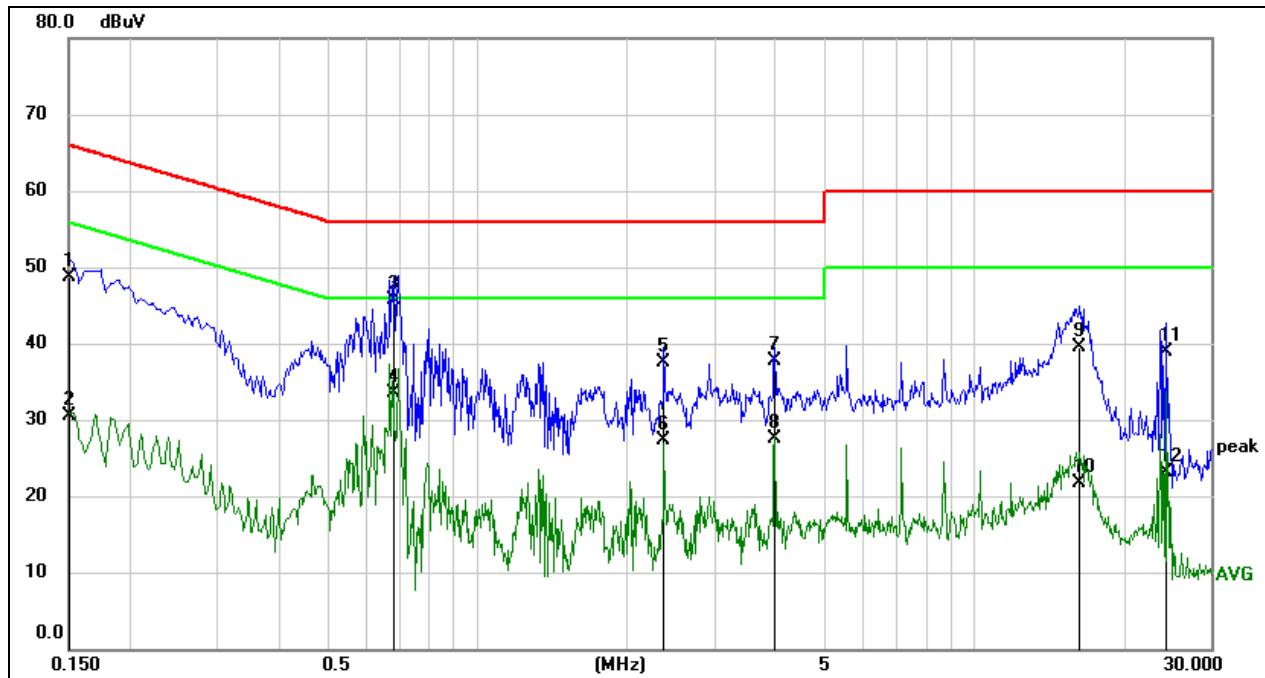
Temperature	24.3°C	Relative Humidity	58%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	June 15, 2024	Test By	Fanny Huang
-----------	---------------	---------	-------------

TEST RESULTS

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



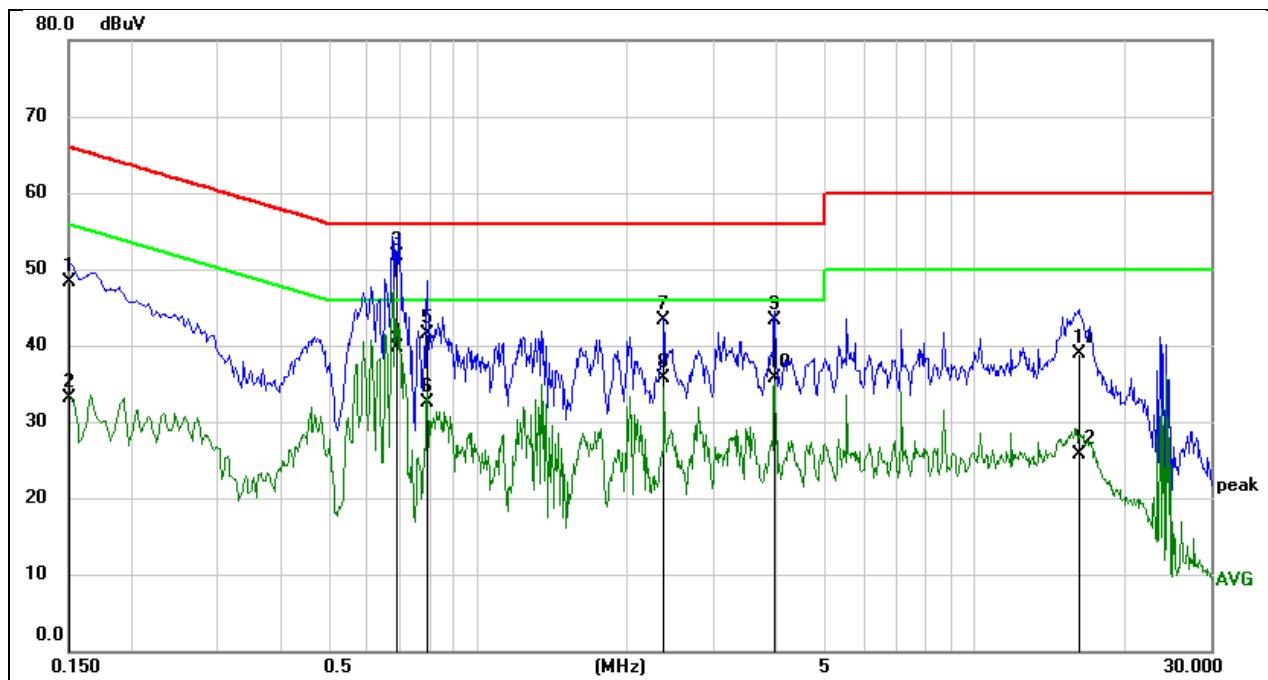
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1513	38.46	10.34	48.80	65.93	-17.13	QP
2	0.1513	20.14	10.34	30.48	55.93	-25.45	AVG
3	0.6789	35.55	10.23	45.78	56.00	-10.22	QP
4	0.6789	23.21	10.23	33.44	46.00	-12.56	AVG
5	2.3794	27.57	10.00	37.57	56.00	-18.43	QP
6	2.3794	17.22	10.00	27.22	46.00	-18.78	AVG
7	3.9656	27.45	10.22	37.67	56.00	-18.33	QP
8	3.9656	17.35	10.22	27.57	46.00	-18.43	AVG
9	16.3151	28.96	10.62	39.58	60.00	-20.42	QP
10	16.3151	11.03	10.62	21.65	50.00	-28.35	AVG
11	24.3185	27.99	10.85	38.84	60.00	-21.16	QP
12	24.3185	12.27	10.85	23.12	50.00	-26.88	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	0.1514	38.05	10.24	48.29	65.92	-17.63	QP
2	0.1514	22.77	10.24	33.01	55.92	-22.91	AVG
3	0.6863	41.62	10.03	51.65	56.00	-4.35	QP
4	0.6863	29.64	10.03	39.67	46.00	-6.33	AVG
5	0.7941	31.58	9.97	41.55	56.00	-14.45	QP
6	0.7941	22.48	9.97	32.45	46.00	-13.55	AVG
7	2.3791	33.15	10.10	43.25	56.00	-12.75	QP
8	2.3791	25.62	10.10	35.72	46.00	-10.28	AVG
9	3.9653	33.08	10.32	43.40	56.00	-12.60	QP
10	3.9653	25.34	10.32	35.66	46.00	-10.34	AVG
11	16.3237	28.21	10.72	38.93	60.00	-21.07	QP
12	16.3237	15.08	10.72	25.80	50.00	-24.20	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

Appendix A: Duty Cycle

Test Mode	M1 (msec)	M2 (msec)	M3 (msec)	M3-M2 (msec)	M3-M1 (msec)
b	0.980	0.996	9.190	8.194	8.21
g	1.369	1.385	2.745	1.36	1.376
n20	0.547	0.562	1.835	1.273	1.288
n40	0.546	0.5615	1.195	0.6335	0.649
ax20	0.070	0.086	1.068	0.982	0.998
ax40	0.162	0.177	0.697	0.52	0.535

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)
b	8.194	8.21	0.9981	99.81	0.01	N/A	0.01
g	1.36	1.376	0.9884	98.84	0.05	N/A	0.01
n20	1.273	1.288	0.9884	98.84	0.05	N/A	0.01
n40	0.6335	0.649	0.9761	97.61	0.10	1.58	2
ax20	0.982	0.998	0.9840	98.40	0.07	N/A	0.01
ax40	0.52	0.535	0.9720	97.20	0.12	1.92	2

Note:

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

Where: x is Duty Cycle (Linear)

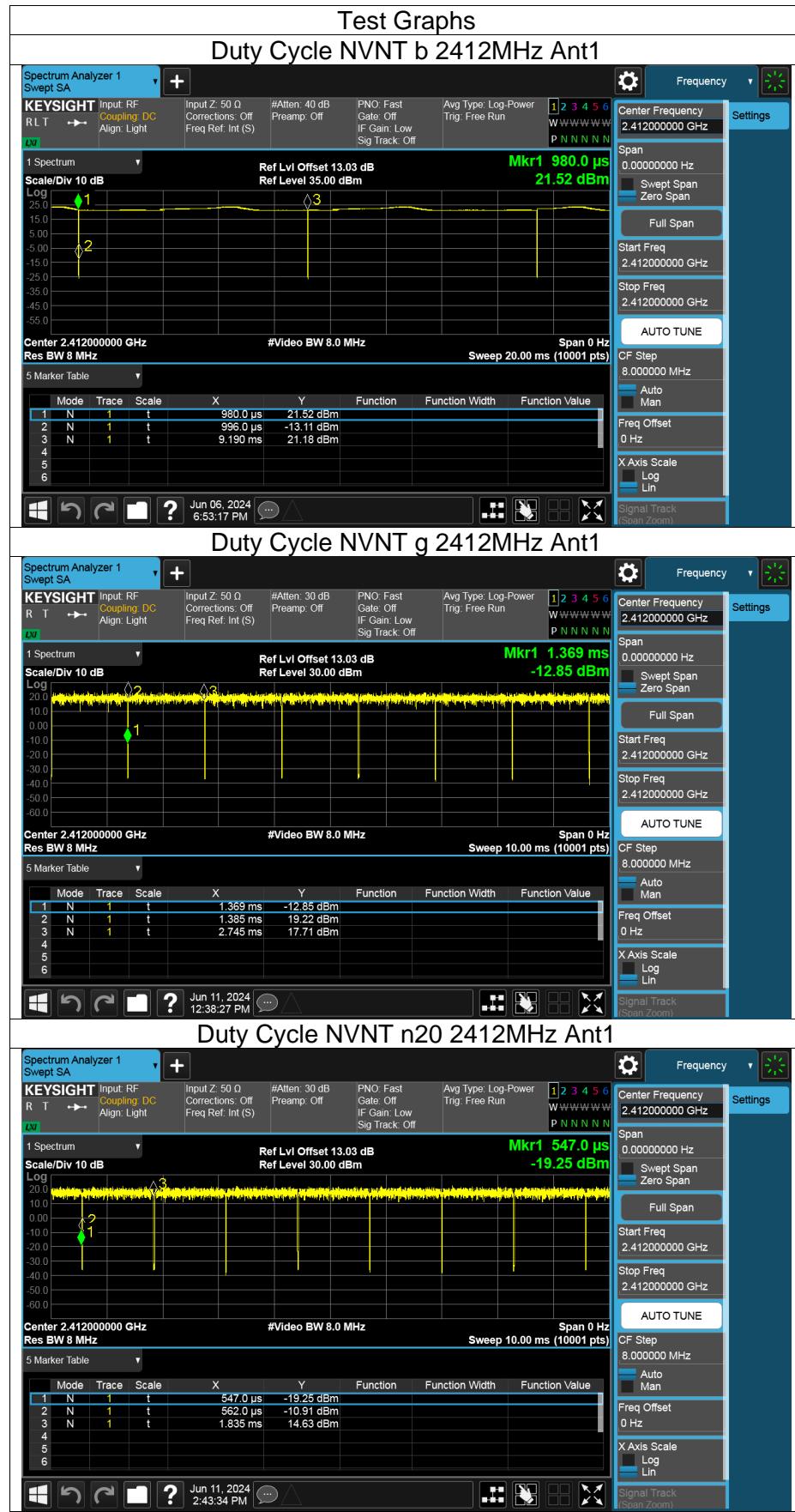
Where: T is On Time

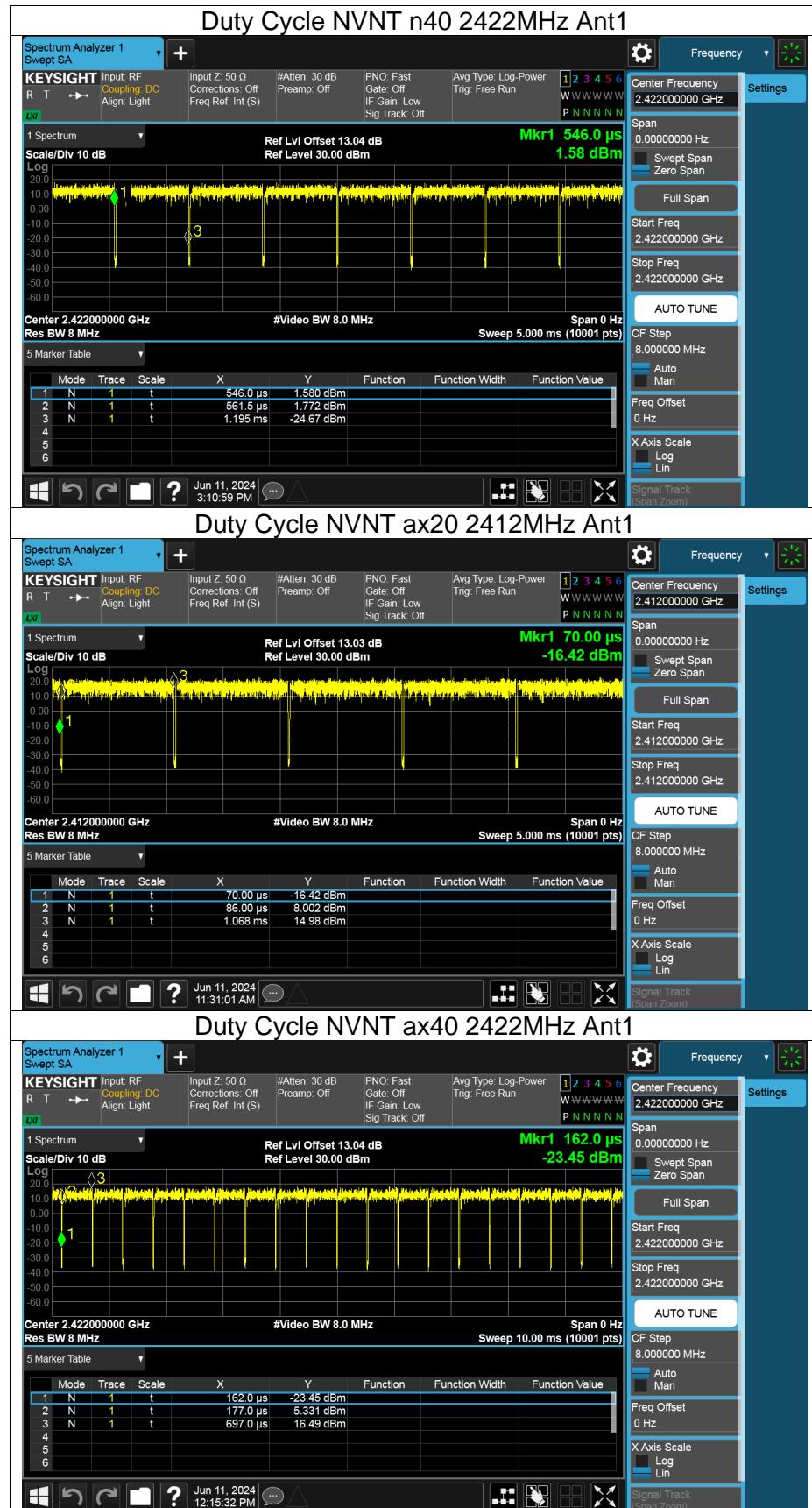
If that calculated VBW is not available on the analyzer then the next higher value should be used.

If the EUT is configured to transmit with duty cycle $\geq 98\%$, set $VBW \leq RBW/100$ (i.e., 10 kHz) but not less than 10 Hz.

On Time=M3-M2

Period=M3-M1





Appendix B: Maximum Conducted Output Power

Mode	Frequency (MHz)	Antenna	Conducted Power	Duty Cycle Correction Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	18.82	0.01	18.83	≤30	Pass
b	2437	Ant1	18.94	0.01	18.95	≤30	Pass
b	2462	Ant1	19.44	0.01	19.45	≤30	Pass
g	2412	Ant1	15.64	0.05	15.69	≤30	Pass
g	2417	Ant1	17.52	0.05	17.57	≤30	Pass
g	2437	Ant1	17.46	0.05	17.51	≤30	Pass
g	2457	Ant1	17.88	0.05	17.93	≤30	Pass
g	2462	Ant1	16.15	0.05	16.2	≤30	Pass
n20	2412	Ant1	15.61	0.05	15.66	≤30	Pass
n20	2417	Ant1	17.62	0.05	17.67	≤30	Pass
n20	2437	Ant1	17.43	0.05	17.48	≤30	Pass
n20	2457	Ant1	17.87	0.05	17.92	≤30	Pass
n20	2462	Ant1	15.45	0.05	15.5	≤30	Pass
n40	2422	Ant1	12.58	0.10	12.68	≤30	Pass
n40	2437	Ant1	13.53	0.10	13.63	≤30	Pass
n40	2452	Ant1	13.62	0.10	13.72	≤30	Pass
ax20	2412	Ant1	15.63	0.07	15.7	≤30	Pass
ax20	2417	Ant1	17.39	0.07	17.46	≤30	Pass
ax20	2437	Ant1	17.53	0.07	17.6	≤30	Pass
ax20	2452	Ant1	17.52	0.07	17.59	≤30	Pass
ax20	2457	Ant1	16.19	0.07	16.26	≤30	Pass
ax20	2462	Ant1	14.03	0.07	14.10	≤30	Pass
ax40	2422	Ant1	13.46	0.12	13.58	≤30	Pass
ax40	2437	Ant1	13.58	0.12	13.70	≤30	Pass
ax40	2452	Ant1	12.71	0.12	12.83	≤30	Pass

Note: Total power = Conducted Power + Duty Cycle Correction Factor.

Appendix C: -6dB Bandwidth

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	9.97	≥0.5	Pass
	2437		10	≥0.5	Pass
	2462		10.05	≥0.5	Pass
g	2412	Ant1	16.35	≥0.5	Pass
	2417		16.34	≥0.5	Pass
	2437		16.36	≥0.5	Pass
	2457		16.33	≥0.5	Pass
	2462		16.38	≥0.5	Pass
n20	2412	Ant1	17.59	≥0.5	Pass
	2417		17.59	≥0.5	Pass
	2437		17.58	≥0.5	Pass
	2457		17.58	≥0.5	Pass
	2462		17.61	≥0.5	Pass
n40	2422	Ant1	36.33	≥0.5	Pass
	2437		36.35	≥0.5	Pass
	2452		36.33	≥0.5	Pass
ax20	2412	Ant1	18.72	≥0.5	Pass
	2417		18.91	≥0.5	Pass
	2437		18.99	≥0.5	Pass
	2452		18.91	≥0.5	Pass
	2457		19.00	≥0.5	Pass
	2462		18.94	≥0.5	Pass
ax40	2422	Ant1	37.87	≥0.5	Pass
	2437		37.88	≥0.5	Pass
	2452		37.86	≥0.5	Pass



