

CFR 47 FCC PART 15 SUBPART E

TEST REPORT

For

Smart POS

MODEL NUMBER: D60

REPORT NUMBER: 4790950508-1-RF-4

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Prepared for

**Dspread Technology(Beijing) Inc
Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road, Chaoyang District,
Beijing, 100015, China**

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	November 27, 2023	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
ON TIME AND DUTY CYCLE	ANSI C63.10-2013, Clause 12.2	None; for reporting purposes only.	Pass
6dB AND 26dB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH	KDB 789033 D02 v02r01 Section C.1	FCC Part 15.407 (a)/(e),	Pass
CONDUCTED OUTPUT POWER	KDB 789033 D02 v02r01 Section E.3.a (Method PM)	FCC 15.407 (a)	Pass
POWER SPECTRAL DENSITY	KDB 789033 D02 v02r01 Section F	FCC 15.407 (a)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2.	FCC 15.207	Pass
Radiated Emissions and Band Edge Measurement	KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6	FCC 15.407 (b) FCC 15.209 FCC 15.205	Pass
FREQUENCY STABILITY	ANSI C63.10-2013, Clause 6.8	FCC 15.407 (g)	Pass
Dynamic Frequency Selection (Slave)	KDB 905462 D03 Client Without DFS New Rules v01r02	FCC Part 15.407 (h), RSS-247 Issue 3 Clause 6.3	Pass
Antenna Requirement	N/A	FCC 47 CFR Part 15.203/ 15.407(a)(1) (2),	Pass

Note:

1. N/A: In this whole report not applicable.

*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 E > when <Simple Acceptance> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Dspread Technology(Beijing) Inc
Address: Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road,
Chaoyang District, Beijing, 100015, China

Manufacturer Information

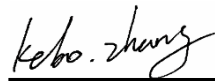
Company Name: Dspread Technology(Beijing) Inc
Address: Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road,
Chaoyang District, Beijing, 100015, China

EUT Information

EUT Name: Smart POS
Model: D60
Sample Received Date: August 2, 2023
Sample Status: Normal
Sample ID: 6327587
Date of Tested: September 18, 2023 to November 27, 2023

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

Prepared By:



Kebo Zhang
Senior Project Engineer

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 E , ANSI C63.10-2013, CFR 47 FCC Part 2, KDB 789033 D02 v02r01, RSS-GEN Issue 5, KDB414788 D01 Radiated Test Site v01.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011
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Note 1:

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

Note 2:

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

Note 3:

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.78 dB (1 GHz ~ 18 GHz)
	5.23 dB (18 GHz ~ 26 GHz)
	5.37 dB (26 GHz ~ 40 GHz)
Duty Cycle	±0.028%
Emission Bandwidth and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.766 dB
Maximum Power Spectral Density Level	±1.22 dB
Frequency Stability	±2.76%
Conducted Band-edge Compliance	±1.328 dB
Dynamic Frequency Selection	±1.01 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	Smart POS
Model	D60
Frequency Band:	5150 MHz to 5250 MHz (U-NII-1) 5250 MHz to 5350 MHz (U-NII-2A) 5 725 MHz to 5 850 MHz (U-NII-3)
Frequency Range:	5180 MHz to 5240 MHz 5260 MHz to 5320 MHz 5745 MHz to 5825 MHz
Type of Modulation:	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)
Rated Input:	5Vdc, 2 A
Battery:	7.2 Vdc

5.2. CHANNEL LIST

UNII-1 (For Bandwidth=20MHz)		UNII-1 (For Bandwidth=40MHz)		UNII-1 (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII-2A (For Bandwidth=20MHz)		UNII-2A (For Bandwidth=40MHz)		UNII-2A (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

UNII-2A (For Bandwidth=160 MHz)	
Channel	Frequency (MHz)
50	5250

UNII-3 (For Bandwidth=20MHz)		UNII-3 (For Bandwidth=40MHz)		UNII-3 (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775

153	5765	159	5795		
157	5785				
161	5805				
165	5825				

UNII-3 (For Bandwidth=240 MHz)	
Channel	Frequency (MHz)
130	5610

5.3. MAXIMUM POWER

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)	Max Average EIRP (dBm)
a	5150 ~ 5850	12.48	15.42
n HT20		10.96	13.90
n HT40		10.27	13.21
ac VHT80		9.90	12.84

5.4. TEST CHANNEL CONFIGURATION

UNII-1 Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11n HT20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11n HT40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz
802.11ac VHT80	CH 42(Low Channel)	5210 MHz

UNII-2A Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a	CH 52(Low Channel), CH 56(MID Channel), CH 64(High Channel)	5260 MHz, 5280 MHz, 5320 MHz
802.11n HT20	CH 52(Low Channel), CH 56(MID Channel), CH 64(High Channel)	5260 MHz, 5280 MHz, 5320 MHz
802.11n HT40	CH 54(Low Channel), CH 62(High Channel)	5270 MHz, 5310 MHz
802.11ac VHT80	CH 58(Low Channel)	5290 MHz

UNII-3 Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11n HT20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11n HT40	CH 151(Low Channel), CH 159(High Channel)	5755MHz, 5795MHz
802.11ac VHT80	CH 155(Low Channel)	5775 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter	
Test Software	Pandora

UNII-1

Mode	Rate	Channel	Soft set value
			ANT 1
11a 20	6M	36	18
		40	18
		48	18
11n HT20	MCS0	36	18
		40	18
		48	18
11n HT40	MCS0	38	18
		46	18
11ac VHT80	MCS0	42	18

UNII-2A

Mode	Rate	Channel	Soft set value
			ANT 1
11a 20	6M	52	17
		56	17
		64	17
11n HT20	MCS0	52	17
		56	17
		64	17
11n HT40	MCS0	54	17
		62	17
11ac VHT80	MCS0	58	17

UNII-3

Mode	Rate	Channel	Soft set value
			ANT 1
11a 20	6M	149	16
		157	16
		165	16
11n HT20	MCS0	149	16
		157	16
		165	16
11n HT40	MCS0	151	16
		159	16
11ac VHT80	MCS0	155	16

Note: 802.11ac VHT20 and 802.11ac VHT40 modes was cover by 802.11n HT20 and 802.11n HT40 modes.

5.6. WORSE 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 declared by the customer:

802.11a 20 mode: 6 Mbps
802.11n HT20 mode: MCS0
802.11n HT40 mode: MCS0
802.11ac VHT20 mode: MCS0
802.11ac VHT40 mode: MCS0
802.11ac VHT80 mode: MCS0

802.11ac VHT20 and VHT40 mode are different from 802.11nHT20 and HT40 only in control messages, so for these 4 modes, only 802.11n HT20 and 802.11n HT40 worst case power modes radiated emission test data are recorded in the report.

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 No.	Frequency Band	Antenna Type	Max Antenna Gain (dBi)
1	5150 ~ 5850 MHz	PIFA	2.94

IEE Std. 802.11	Transmit and Receive Mode	Description
802.11a 20	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
802.11n HT20	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
802.11n HT40	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
802.11ac VHT20	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
802.11ac VHT40	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
802.11ac VHT80	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.

Note:

1.BT&WLAN 2.4G, BT & WLAN 5G, WLAN 2.4G & WLAN 5G, WIFI&BT<E module 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	E14	/

I/O CABLES

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

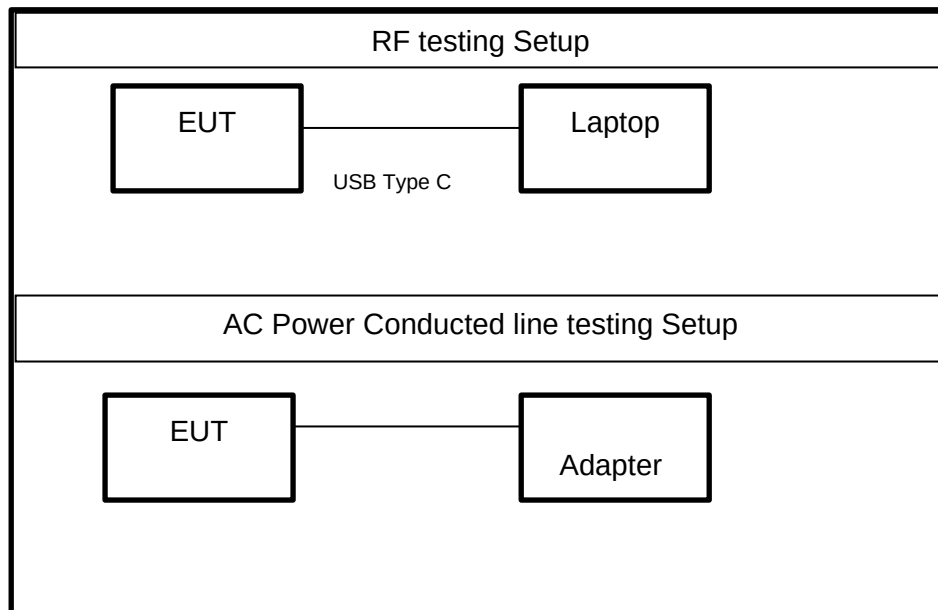
ACCESSORIES

Item	Equipment	Brand Name	Model Name	Remarks
1	Adapter	N/A	TPA-46050200UU	Input: 100-240V~, 50/60Hz, 0.3A Output: 5 Vdc, 2A, 10W

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.	Upper Last Cal.	Last Cal.	Due. Date
Power sensor, Power Meter	R&S	OSP120	100921	/	Mar.31, 2023	Mar.30, 2024
Vector Signal Generator	R&S	SMBV100A	261637	Oct.17, 2022	Oct.12, 2023	Oct.11, 2024
Signal Generator	R&S	SMB100A	178553	Oct.17, 2022	Oct.12, 2023	Oct.11, 2024
Signal Analyzer	R&S	FSV40	101118	Oct.17, 2022	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.	Upper Last Cal.	Last Cal.	Due. Date
Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.17, 2022	Oct.12, 2023	Oct.11, 2024
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.28, 2022	Sep.27, 2023	Sep.26, 2024
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Oct.17, 2022	Oct.12, 2023	Oct.11, 2024
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Oct.17, 2022	Oct.12, 2023	Oct.11, 2024
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Oct.17, 2022	Oct.12, 2023	Oct.11, 2024
DC power supply	Keysight	E3642A	MY55159130	Oct.17, 2022	Oct.12, 2023	Oct.11, 2024
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Oct.17, 2022	Oct.12, 2023	Oct.11, 2024
Attenuator	Aglient	8495B	2814a12853	Oct.18, 2022	Oct.12, 2023	Oct.11, 2024
RF Control Unit	Tonscend	JS0806-2	23B80620666	/	April 18,2023	April 17,2024
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.	Upper Last Cal.	Last Cal.	Due. Date
EMI Test Receiver	R&S	ESR3	101961	Oct.17, 2022	Oct.13, 2023	Oct.12, 2024
Two-Line V-Network	R&S	ENV216	101983	Oct.17, 2022	Oct.13, 2023	Oct.12, 2024
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.17, 2022	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.	Upper Last Cal.	Last Cal.	Due. Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.17, 2022	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.17, 2022	Oct.12, 2023	Oct.11, 2024
EMI Measurement Receiver	R&S	ESR26	101377	Oct.17, 2022	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.17, 2022	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.17, 2022	Oct.12, 2023	Oct.11, 2024
Preamplifier	TDK	PA-02-3	TRS-308-00002	Oct.17, 2022	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.17, 2022	Oct.12, 2023	Oct.11, 2024
Preamplifier	Mini-Circuits	ZX60-83LN-S+	SUP01202035	Oct.17, 2022	Oct.12, 2023	Oct.11, 2024
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	/	Dec.01,2022	Nov.30,2023
Highpass Filter	Wainwright	WHKX10-5850-6500-1800-40SS	4	/	Dec.01,2022	Nov.30,2023

Band Reject Filter	Wainwright	WRCJV12-5695-5725-5850-5880-40SS	4	/	Dec.01,2022	Nov.30,2023
Band Reject Filter	Wainwright	WRCJV20-5120-5150-5350-5380-60SS	2	/	Dec.01,2022	Nov.30,2023
Band Reject Filter	Wainwright	WRCJV20-5440-5470-5725-5755-60SS	1	/	Dec.01,2022	Nov.30,2023
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	/	Dec.01,2022	Nov.30,2023
Band Reject Filter	Wainwright	WRCD5-1879-1879.85-1880.15-1881-40SS	1	/	Dec.01,2022	Nov.30,2023
Notch Filter	Wainwright	WHJ10-882-980-7000-40SS	1	/	Dec.01,2022	Nov.30,2023
Software						
Description			Manufacturer	Name	Version	
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1	

Other Instrument						
Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Due. Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.22, 2022	Oct.19, 2023	Oct.18, 2024
Barometer	Yiyi	Baro	N/A	Oct.24, 2022	Oct.19, 2023	Oct.18, 2024
Attenuator	Agilent	8495B	2814a12853	Oct.18, 2022	Oct.12, 2023	Oct.11, 2024

7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

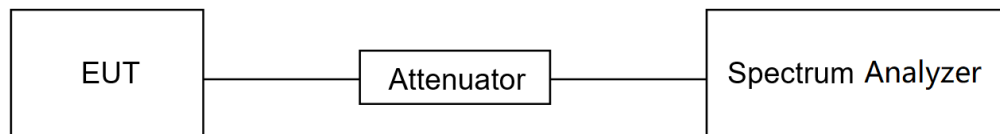
None; for reporting purposes only.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq EBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

TEST SETUP



TEST ENVIRONMENT

Temperature	25.6°C	Relative Humidity	67.5%
Atmosphere Pressure	101kPa	Test Voltage	7.2 VDC

TEST DATE / ENGINEER

Test Date	September 21, 2023	Test By	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.2. 6DB AND 26DB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
26 dB Emission Bandwidth	For reporting purposes only.	5150 ~ 5250
26 dB Emission Bandwidth	For reporting purposes only.	5250 ~ 5350
26 dB Emission Bandwidth	For reporting purposes only.	5470 ~ 5725
6 dB Emission Bandwidth	The minimum 6 dB emission bandwidth shall be 500 kHz.	5725 ~ 5850
99 % Occupied Bandwidth	For reporting purposes only.	5150 ~ 5825

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

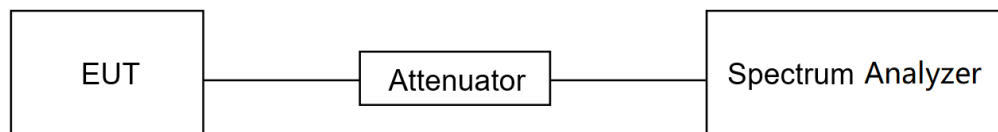
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Emission Bandwidth: RBW=100 kHz For 26 dB Emission bandwidth: approximately 1 % of the EBW. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW.
VBW	For 6 dB Bandwidth: $\geq 3 \times \text{RBW}$ For 26 dB Bandwidth: $> 3 \times \text{RBW}$ For 99 % Bandwidth: $> 3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto couple

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

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6/26 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.6°C	Relative Humidity	67.5%
Atmosphere Pressure	101kPa	Test Voltage	7.2 VDC

TEST DATE / ENGINEER

Test Date	September 21, 2023	Test By	Johnson Liu
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TEST RESULTS

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

7.3. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	☐ Outdoor Access Point: 1 W (30 dBm) ☐ Indoor Access Point: 1 W (30 dBm) ☐ Fixed Point-To-Point Access Points: 1 W (30 dBm) ☒ Client Devices: 250 mW (24 dBm)	5150 ~ 5250
	Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.	5250 ~ 5350 5470 ~ 5725
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi.

If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

Method PM (Measurement using an RF average power meter):

(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:

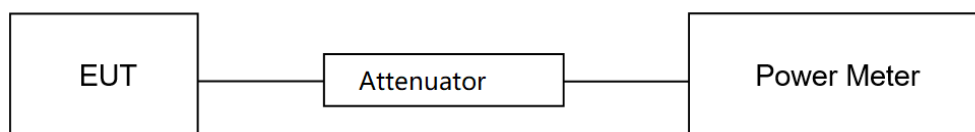
- The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
- The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.

(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(iv) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25 %).

TEST SETUP



TEST ENVIRONMENT

Temperature	25.6°C	Relative Humidity	67.5%
Atmosphere Pressure	101kPa	Test Voltage	7.2 VDC

TEST DATE / ENGINEER

Test Date	September 21, 2023	Test By	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.4. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	☐ Outdoor Access Point: 17 dBm/MHz ☐ Indoor Access Point: 17 dBm/MHz ☐ Fixed Point-To-Point Access Points: 17 dBm/MHz ☒ Client Devices: 11 dBm/MHz	5150 ~ 5250
	11 dBm/MHz	5250 ~ 5350 5470 ~ 5725
	30 dBm/500kHz	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi.

If transmitting antennas of directional gain greater than 6 dBi are used, maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.

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

For U-NII-1, U-NII-2A and U-NII-2C band:

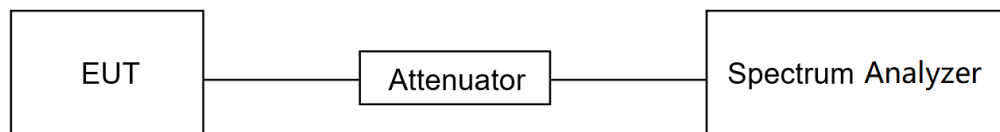
Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

For U-NII-3:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow trace to fully stabilize and use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

TEST SETUP**TEST ENVIRONMENT**

Temperature	25.6°C	Relative Humidity	67.5%
Atmosphere Pressure	101kPa	Test Voltage	7.2 VDC

TEST DATE / ENGINEER

Test Date	September 21, 2023	Test By	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix E

7.5. FREQUENCY STABILITY

LIMITS

The frequency of the carrier signal shall be maintained within band of operation.

TEST PROCEDURE

1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -10 °C ~ 45 °C (declared by customer).
2. The temperature was incremented by 10 °C intervals and the unit allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.
3. The primary supply voltage is varied from 85 % to 115 % of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

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

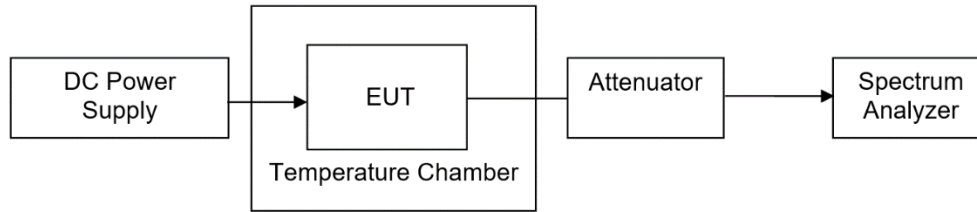
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	10 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.
5. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

TEST ENVIRONMENT

	Normal Test Conditions	Extreme Test Conditions
Relative Humidity	20 % ~ 75 %	/
Atmospheric Pressure	100 kPa ~ 102 kPa	/
Temperature	T _N (Normal Temperature): 25.1 °C	T _L (Low Temperature): -10 °C
		T _H (High Temperature): 45 °C
Supply Voltage	V _N (Normal Voltage): AC 120V, 60 Hz	V _L (Low Voltage): AC 102 V
		V _H (High Voltage): AC 138 V

TEST SETUP



TEST ENVIRONMENT

Temperature	25.6°C	Relative Humidity	67.5%
Atmosphere Pressure	101kPa	Test Voltage	7.2 VDC

TEST DATE / ENGINEER

Test Date	September 22, 2023	Test By	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix G

7.6. DYNAMIC FREQUENCY SELECTION (SLAVE)

LIMITS

(1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

(2) DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

APPLICABILITY OF DFS REQUIREMENTS

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands.

Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	☐ Master	☒ Client Without Radar Detection	☐ Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	☐ Master Device or Client with Radar Detection	☒ Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	☐ Master Device or Client with Radar Detection	☒ Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

PARAMETERS OF RADAR TEST WAVEFORMS

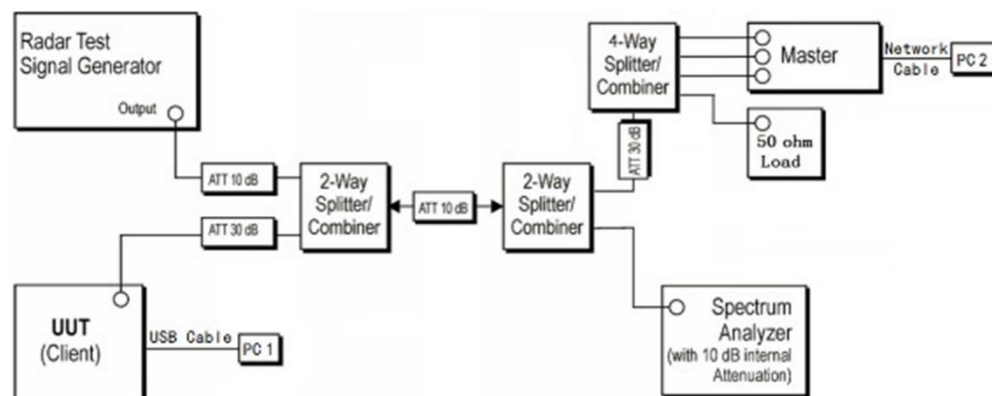
This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A	Roundup $\left\{ \frac{1}{360} \right\}$	60%	30
		Test B			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.6°C	Relative Humidity	67.5%
Atmosphere Pressure	101kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

Test Date	October 9, 2023	Test By	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix H&I&J.

8. RADIATED TEST RESULTS

LIMITS

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

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

Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)		
Frequency Range (MHz)	EIRP Limit	Field Strength Limit (dBuV/m) at 3 m
5150~5250 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz		
5470~5725 MHz		
5725~5850 MHz	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK: 122.2 (dBμV/m) *4
Note: *1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

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

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made

to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

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

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

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

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

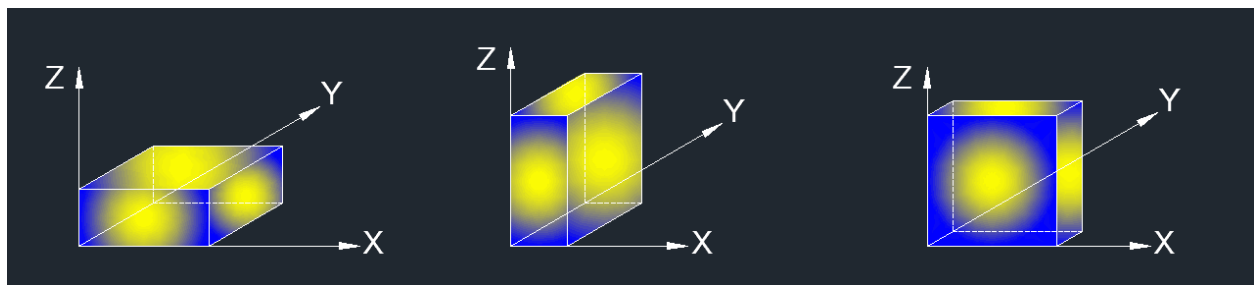
Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.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 7.1. 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.

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

For Restricted Bandedge:

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. PK=Peak: Peak detector.
4. AV=Average: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. All modes have been tested, but only the worst data was recorded in the report.
5. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}[120\pi] = \text{dBuV/m} - 51.5$

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

Note:

1. Result Level = Read Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 7 GHz):

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2 dBuV/m) limit.
9. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (7 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 7.1.
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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2 dBuV/m) limit.
9. All modes have been tested, but only the worst data was recorded in the report.

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

Note:

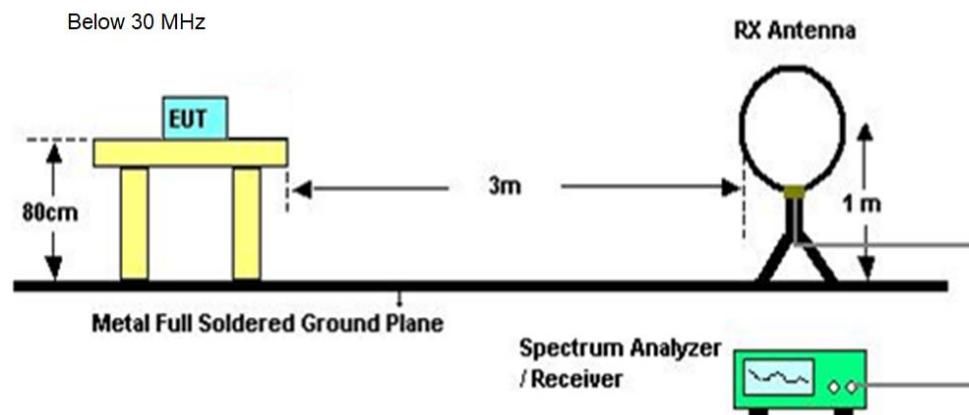
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (26 GHz ~ 40 GHz):

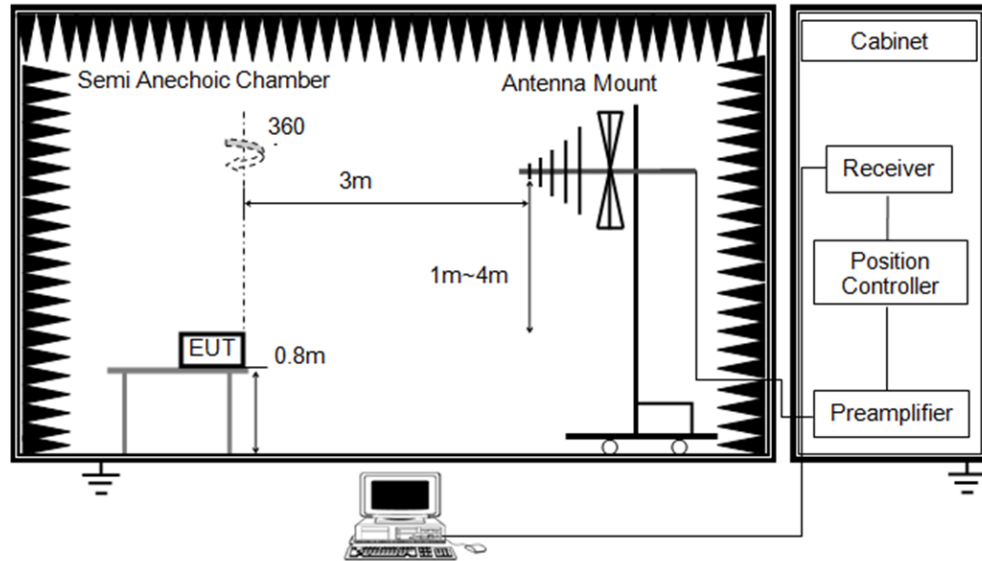
Note:

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.

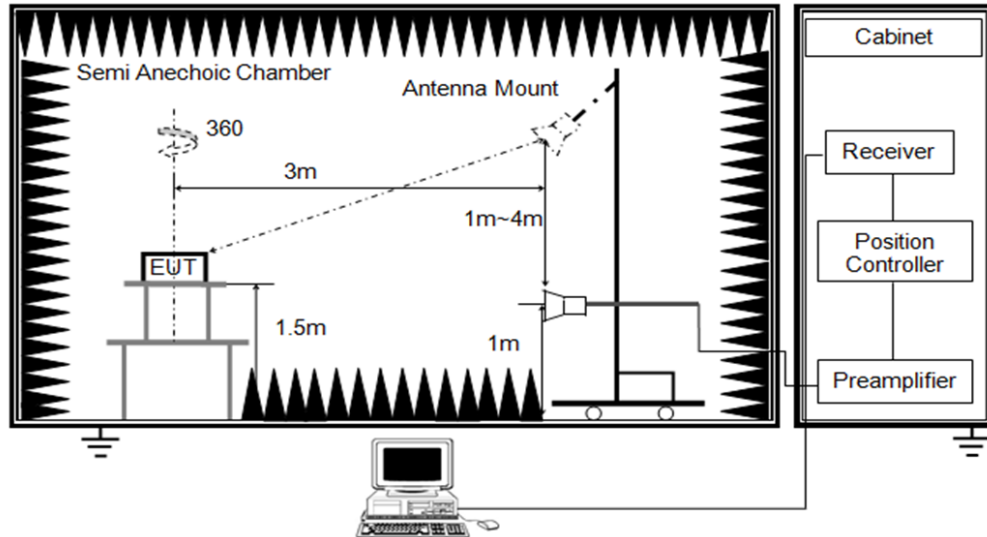
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	66%
Atmosphere Pressure	101kPa	Test Voltage	

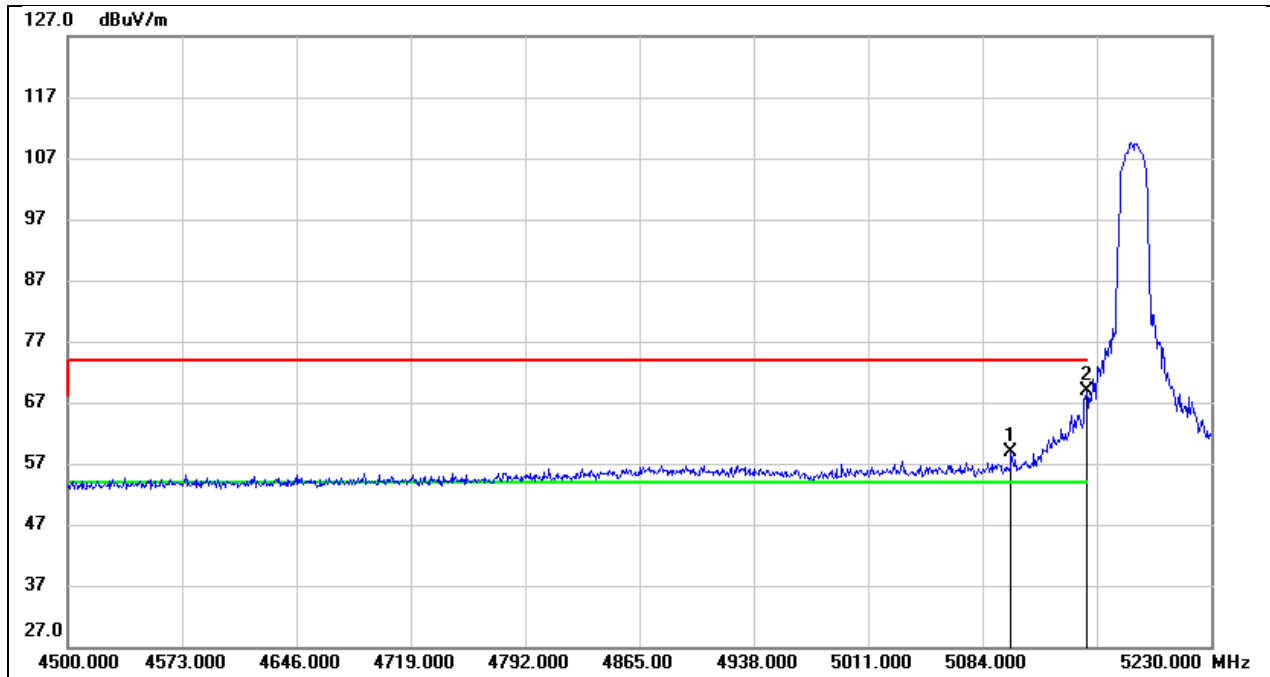
TEST DATE / ENGINEER

Test Date	October 10, 2023	Test By	Rex Huang
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TEST RESULTS

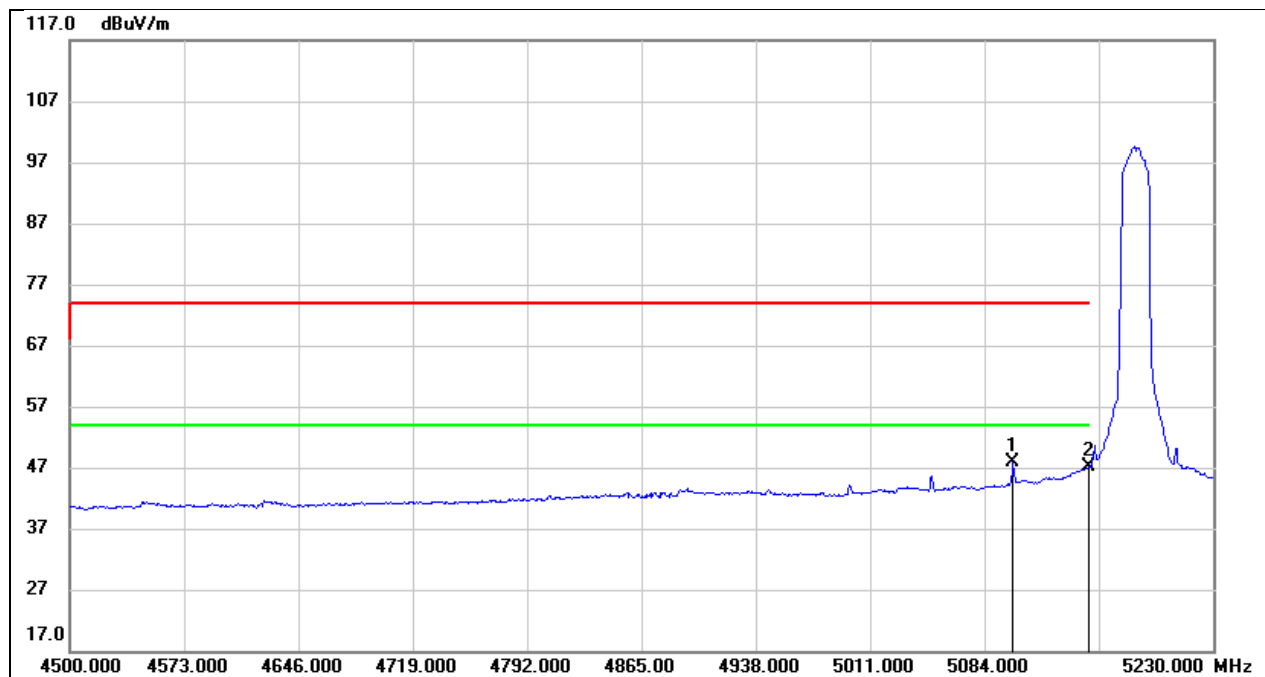
8.1. RESTRICTED BANDEDGE

Test Mode:	802.11a 20 PK	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



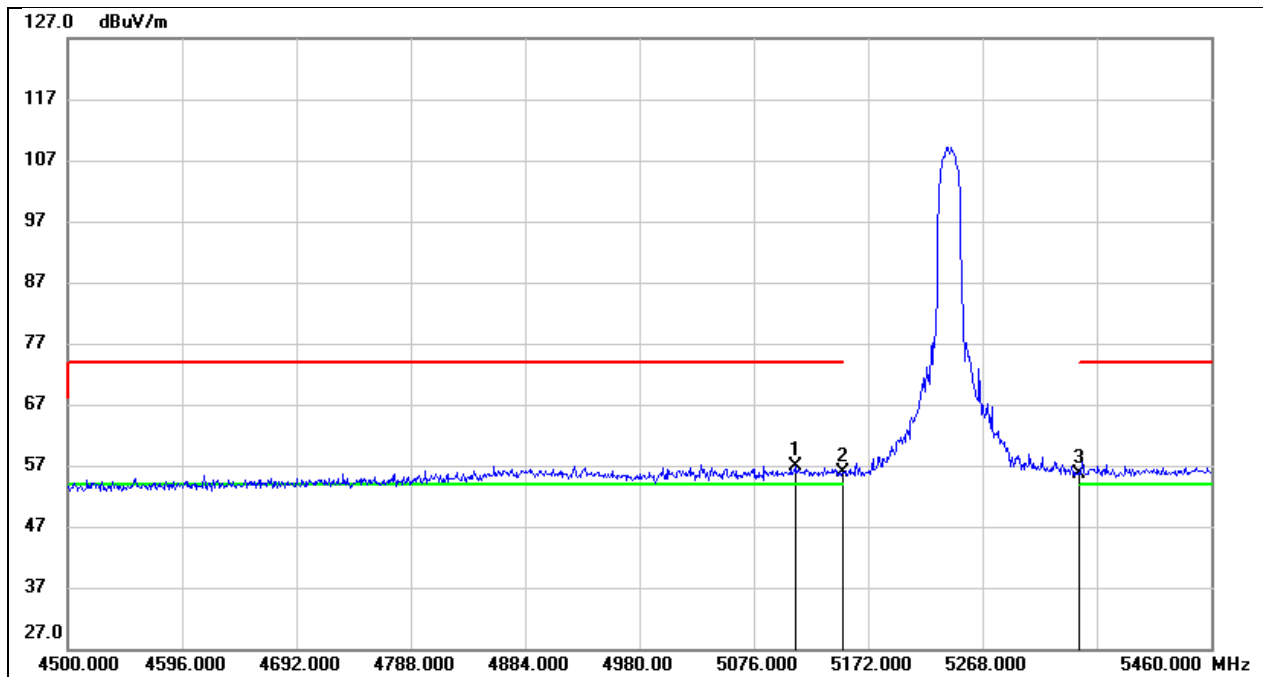
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5102.250	18.67	40.22	58.89	74.00	-15.11	peak
2	5150.000	28.50	40.27	68.77	74.00	-5.23	peak

Test Mode:	802.11a 20 AV	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



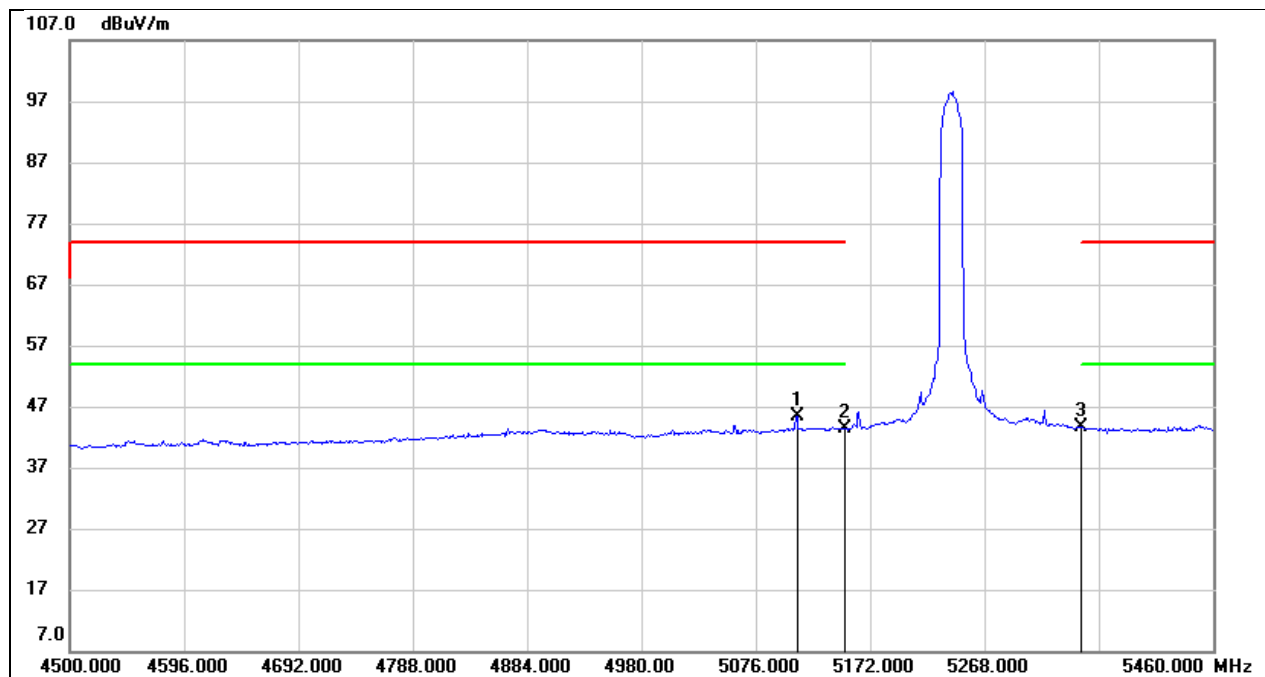
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5102.250	7.58	40.22	47.80	54.00	-6.20	AVG
2	5150.000	6.86	40.27	47.13	54.00	-6.87	AVG

Test Mode:	802.11a 20 PK	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



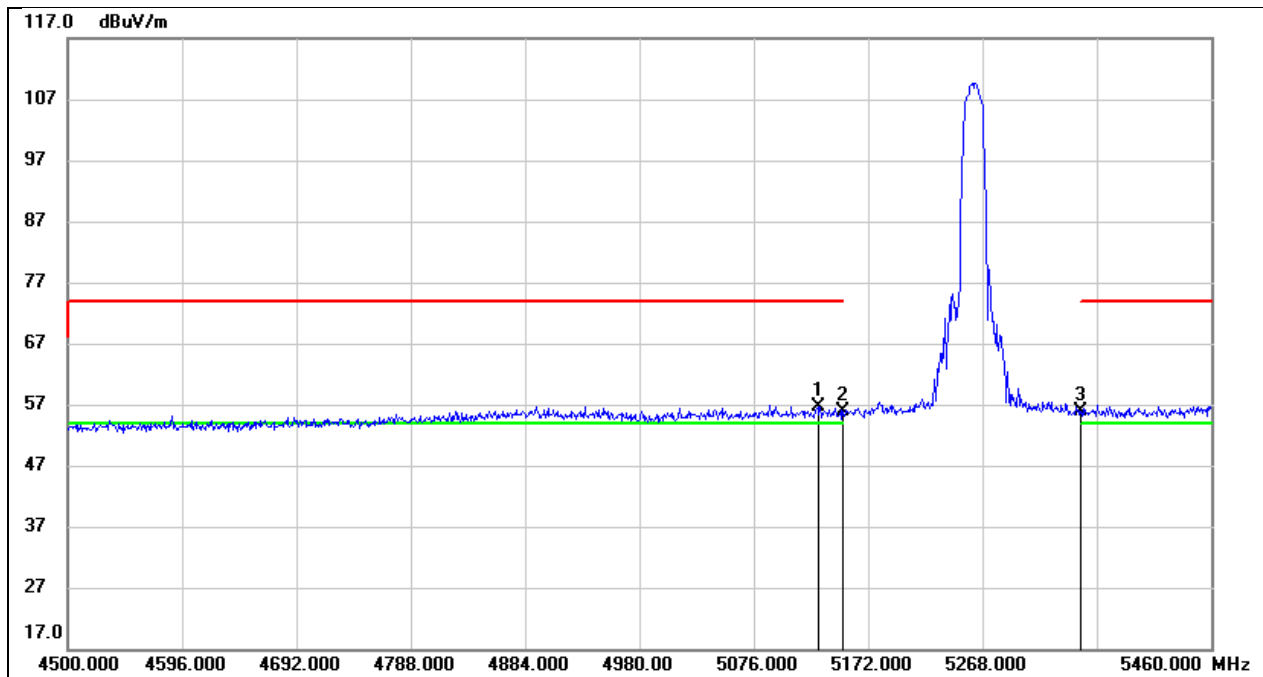
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5110.560	16.56	40.23	56.79	74.00	-17.21	peak
2	5150.000	15.50	40.27	55.77	74.00	-18.23	peak
3	5350.000	15.24	40.49	55.73	74.00	-18.27	peak

Test Mode:	802.11a 20 AV	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



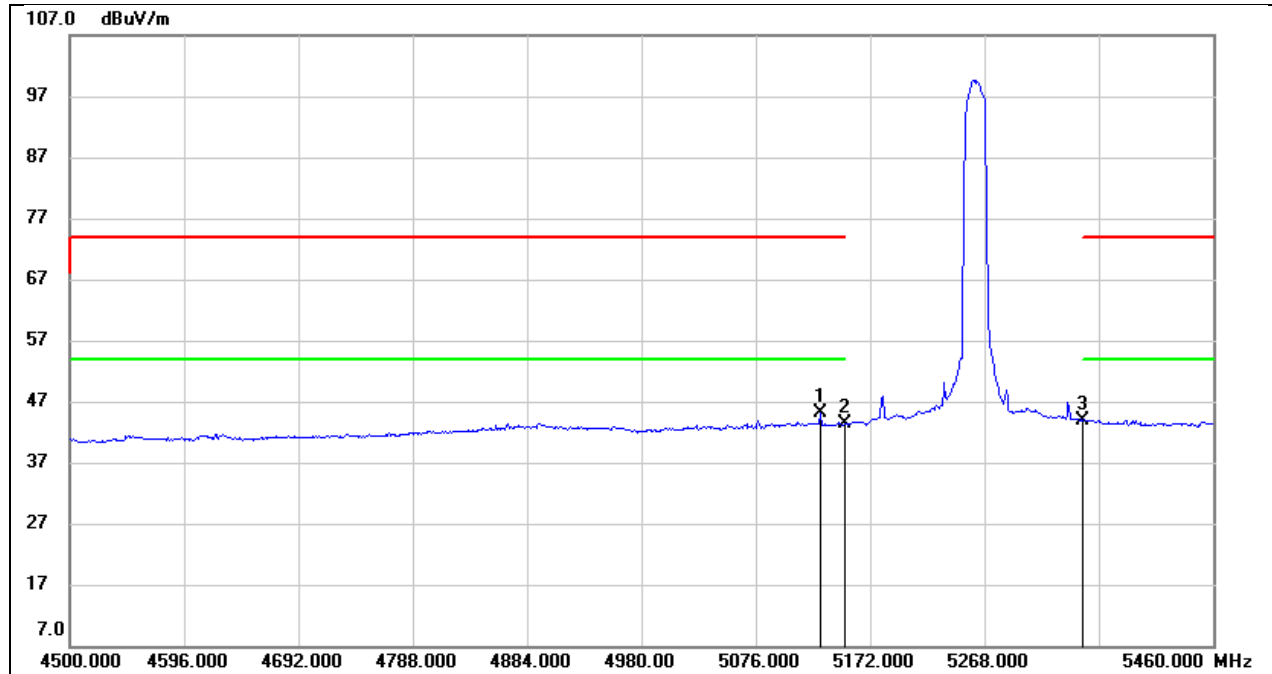
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5110.560	5.23	40.23	45.46	54.00	-8.54	AVG
2	5150.000	3.12	40.27	43.39	54.00	-10.61	AVG
3	5350.000	3.08	40.49	43.57	54.00	-10.43	AVG

Test Mode:	802.11a 20 PK	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



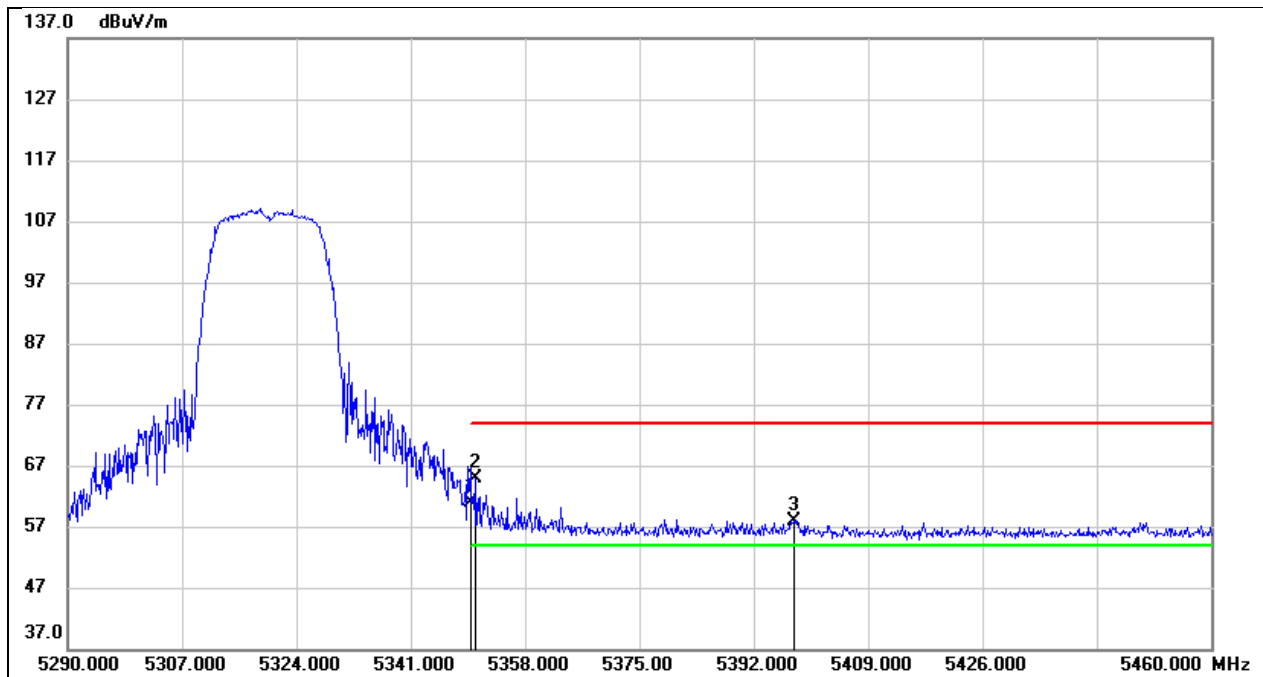
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5129.760	16.32	40.25	56.57	74.00	-17.43	peak
2	5150.000	15.56	40.27	55.83	74.00	-18.17	peak
3	5350.000	15.50	40.49	55.99	74.00	-18.01	peak

Test Mode:	802.11a 20 AV	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



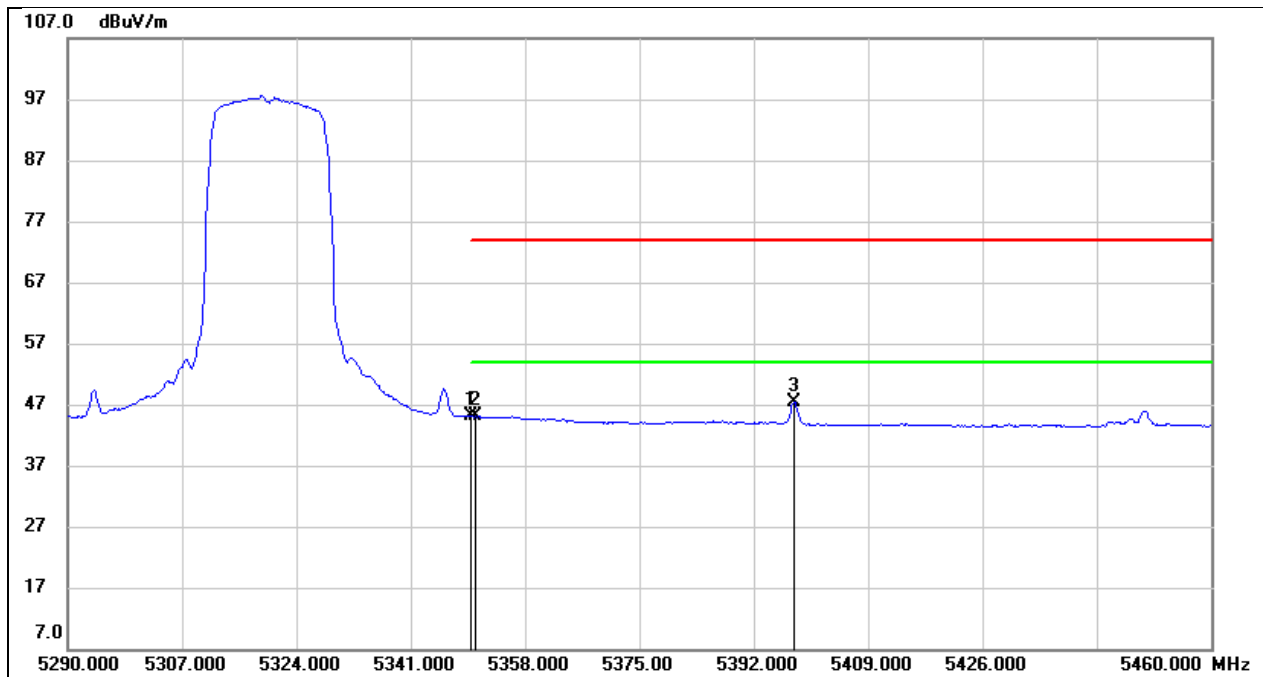
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5129.760	4.98	40.25	45.23	54.00	-8.77	AVG
2	5150.000	3.19	40.27	43.46	54.00	-10.54	AVG
3	5350.000	3.46	40.49	43.95	54.00	-10.05	AVG

Test Mode:	802.11a 20 PK	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



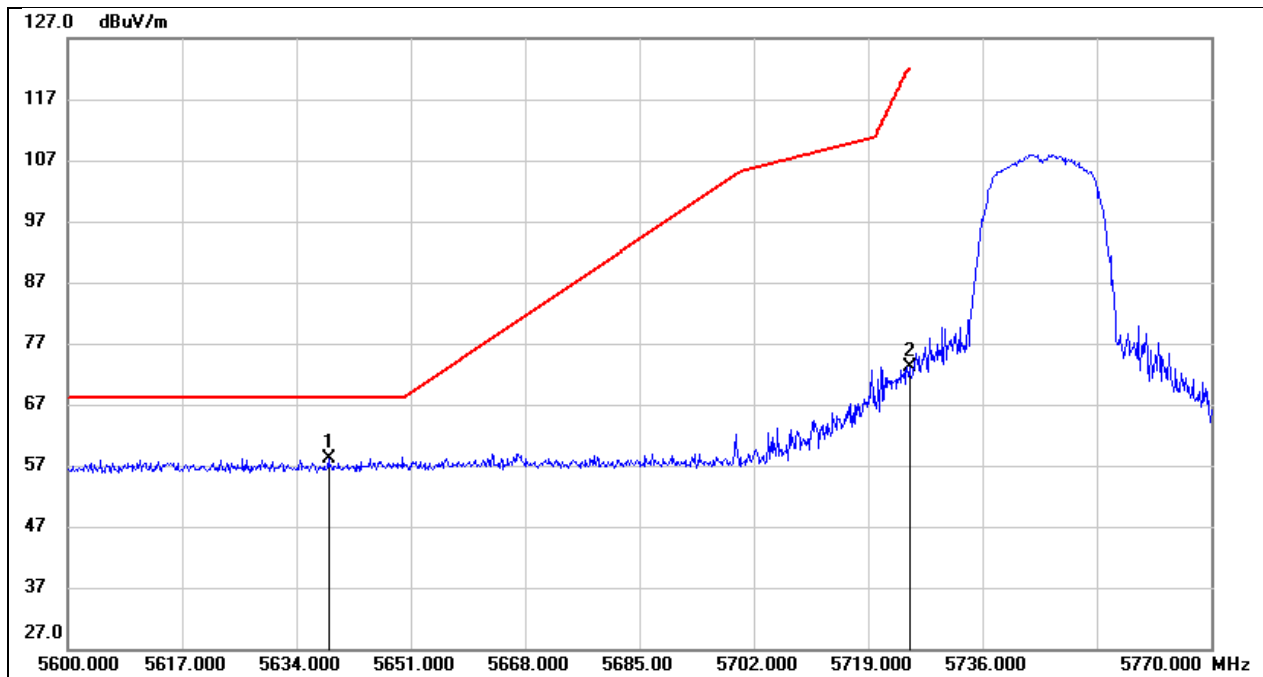
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	20.35	40.49	60.84	74.00	-13.16	peak
2	5350.690	24.42	40.49	64.91	74.00	-9.09	peak
3	5397.950	17.43	40.55	57.98	74.00	-16.02	peak

Test Mode:	802.11a 20 AV	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



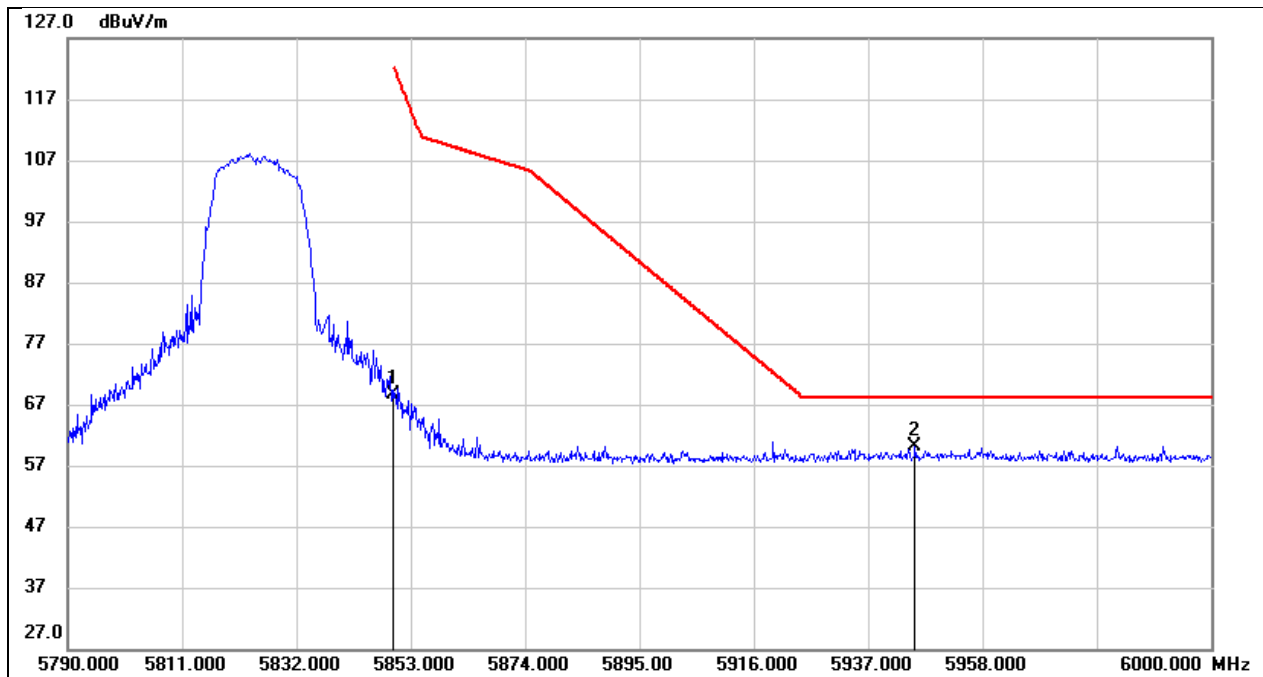
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	4.62	40.49	45.11	54.00	-8.89	AVG
2	5350.690	4.56	40.49	45.05	54.00	-8.95	AVG
3	5397.950	6.75	40.55	47.30	54.00	-6.70	AVG

Test Mode:	802.11a 20 PK	Frequency(MHz):	5745
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



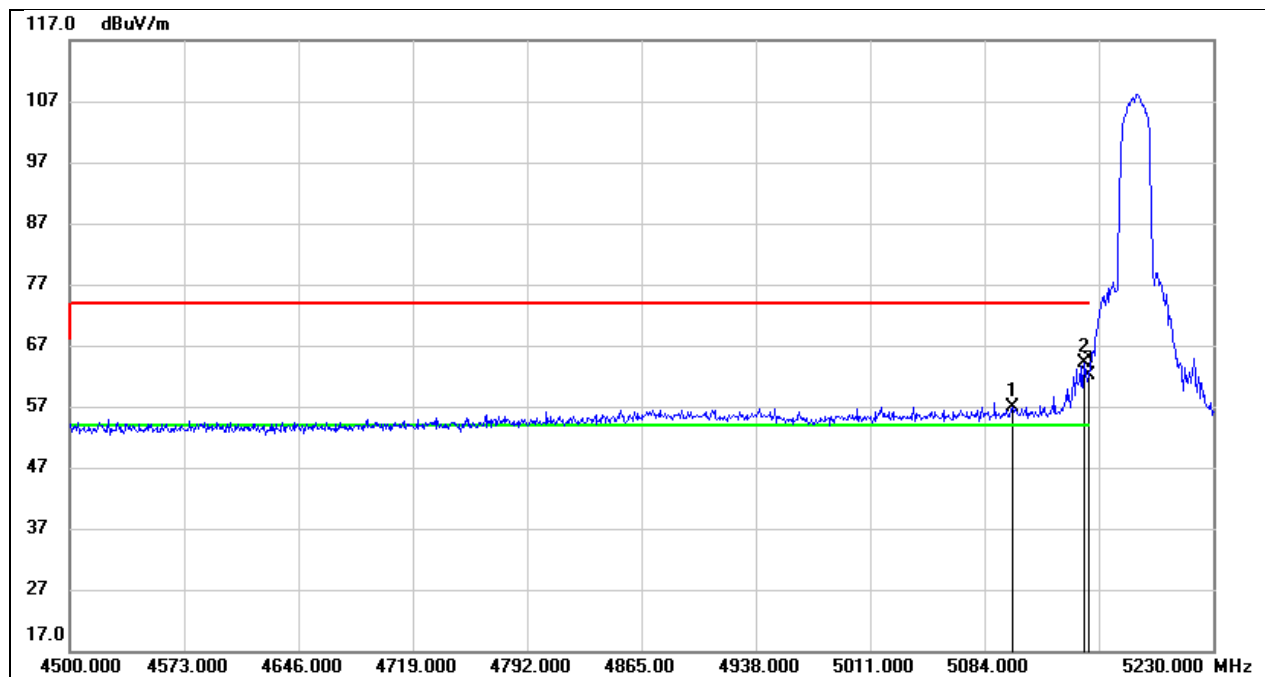
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5638.760	17.19	41.03	58.22	68.20	-9.98	peak
2	5725.000	31.94	41.27	73.21	122.20	-48.99	peak

Test Mode:	802.11a 20 PK	Frequency(MHz):	5825
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



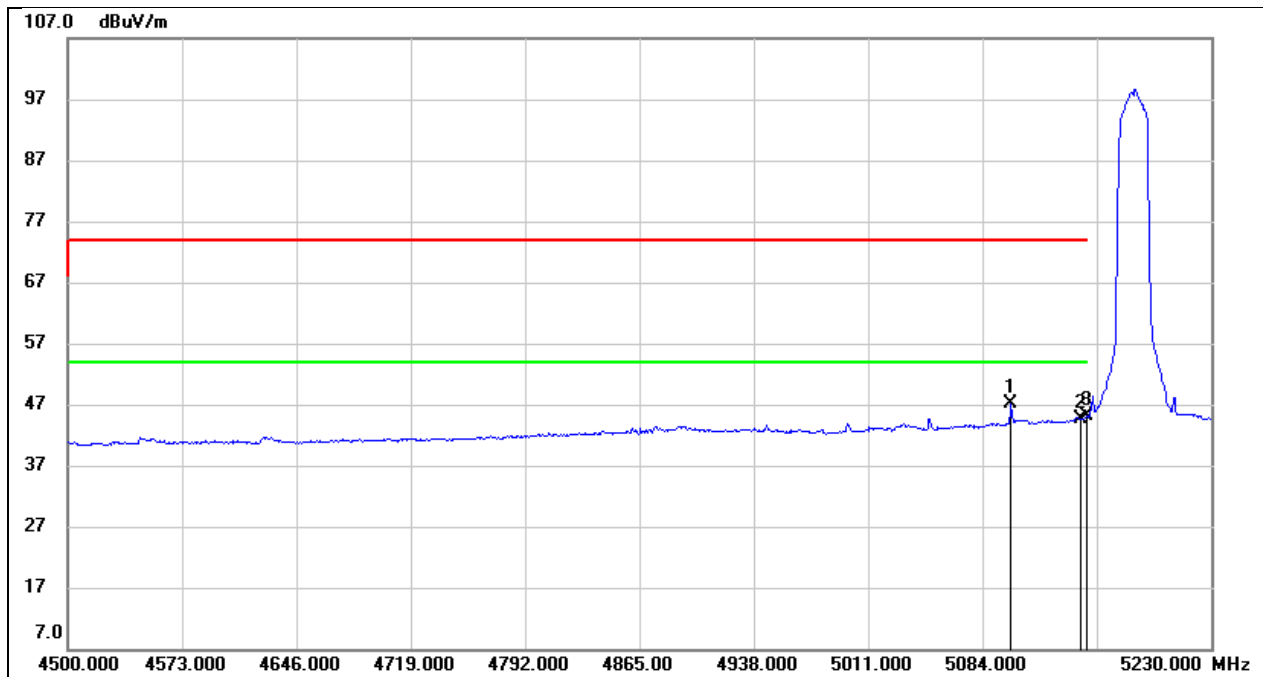
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	27.12	41.60	68.72	122.20	-53.48	peak
2	5945.610	18.32	41.86	60.18	68.20	-8.02	peak

Test Mode:	802.11n HT20 PK	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



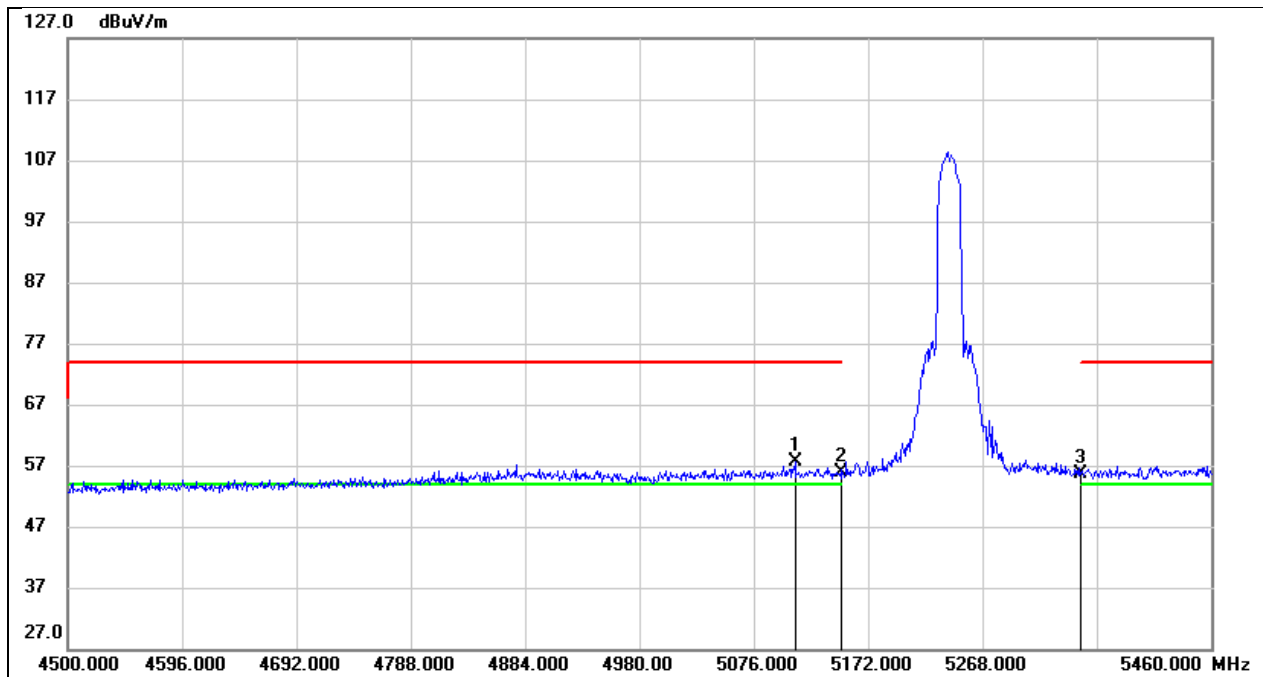
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5102.250	16.55	40.22	56.77	74.00	-17.23	peak
2	5147.510	23.74	40.28	64.02	74.00	-9.98	peak
3	5150.000	21.84	40.27	62.11	74.00	-11.89	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



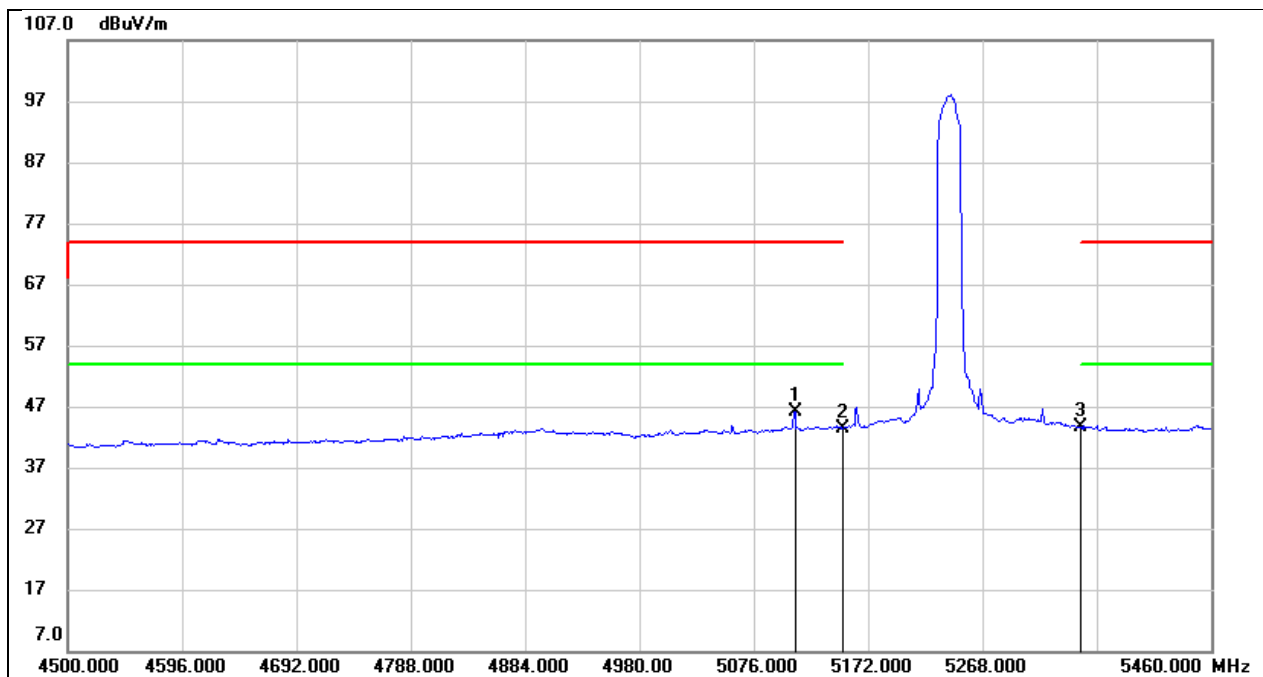
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5102.250	6.83	40.22	47.05	54.00	-6.95	AVG
2	5147.510	4.28	40.28	44.56	54.00	-9.44	AVG
3	5150.000	4.95	40.27	45.22	54.00	-8.78	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



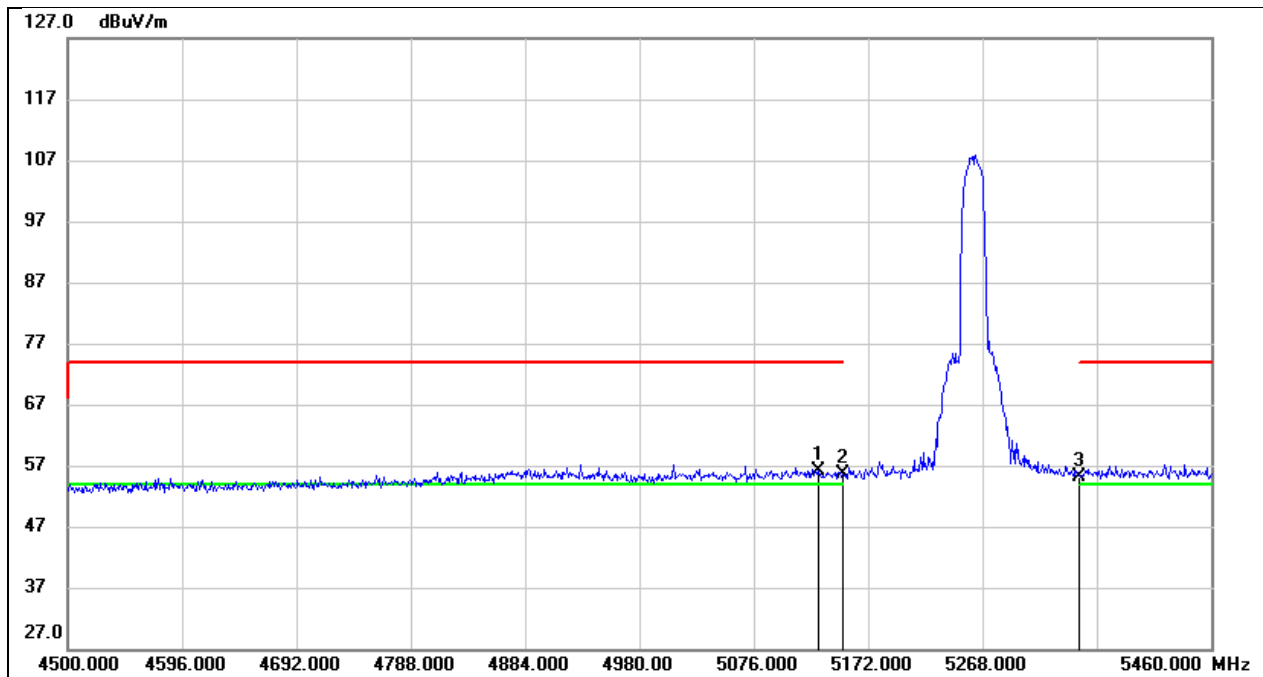
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5110.560	17.49	40.23	57.72	74.00	-16.28	peak
2	5150.000	15.58	40.27	55.85	74.00	-18.15	peak
3	5350.000	15.13	40.49	55.62	74.00	-18.38	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



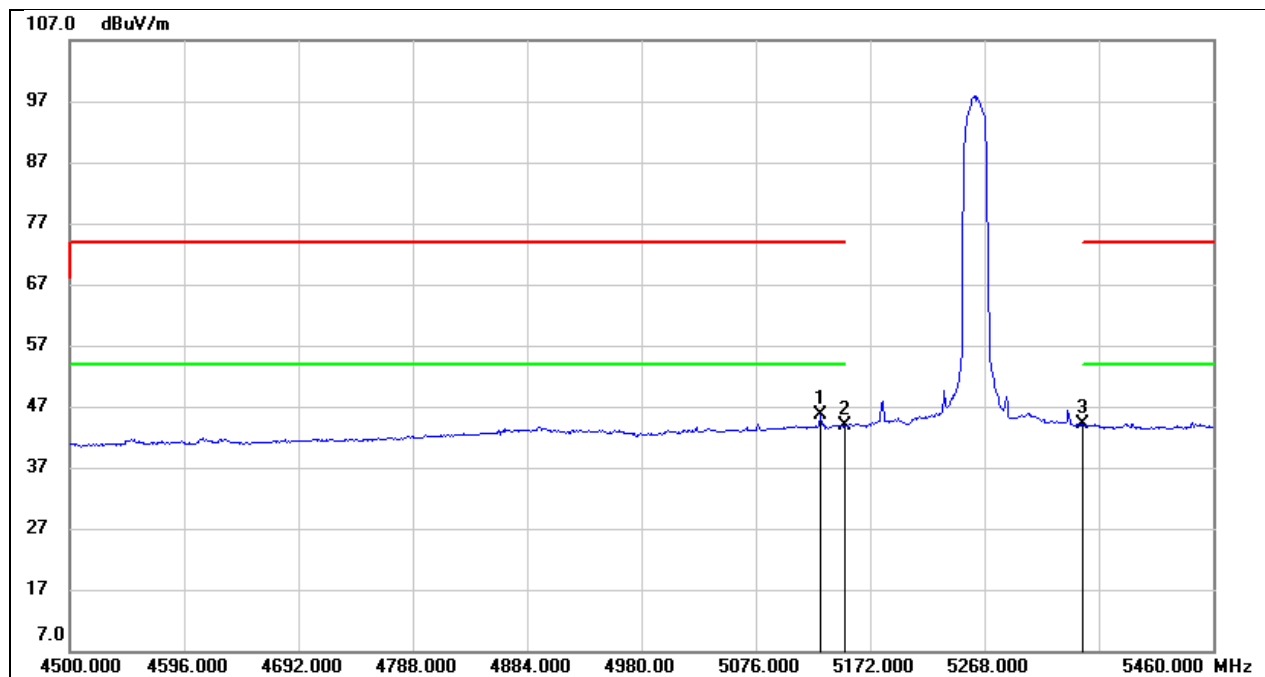
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5110.560	5.84	40.23	46.07	54.00	-7.93	AVG
2	5150.000	3.22	40.27	43.49	54.00	-10.51	AVG
3	5350.000	3.24	40.49	43.73	54.00	-10.27	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



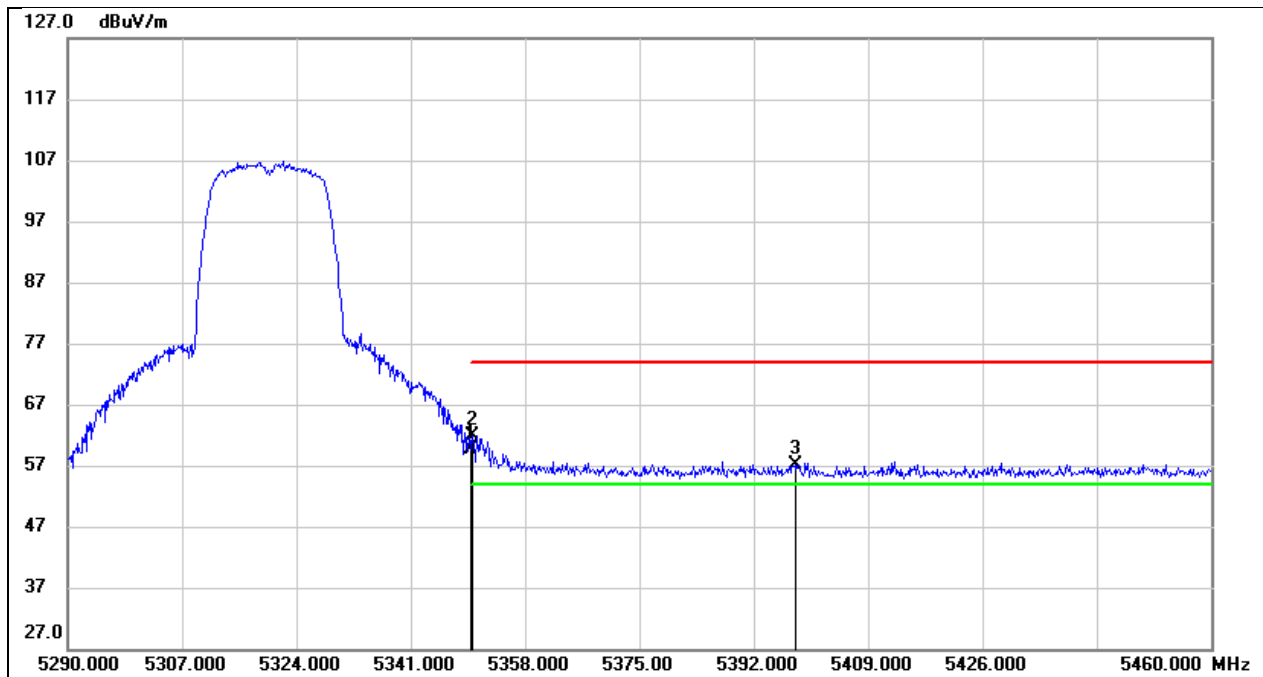
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5129.760	15.84	40.25	56.09	74.00	-17.91	peak
2	5150.000	15.37	40.27	55.64	74.00	-18.36	peak
3	5350.000	14.67	40.49	55.16	74.00	-18.84	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



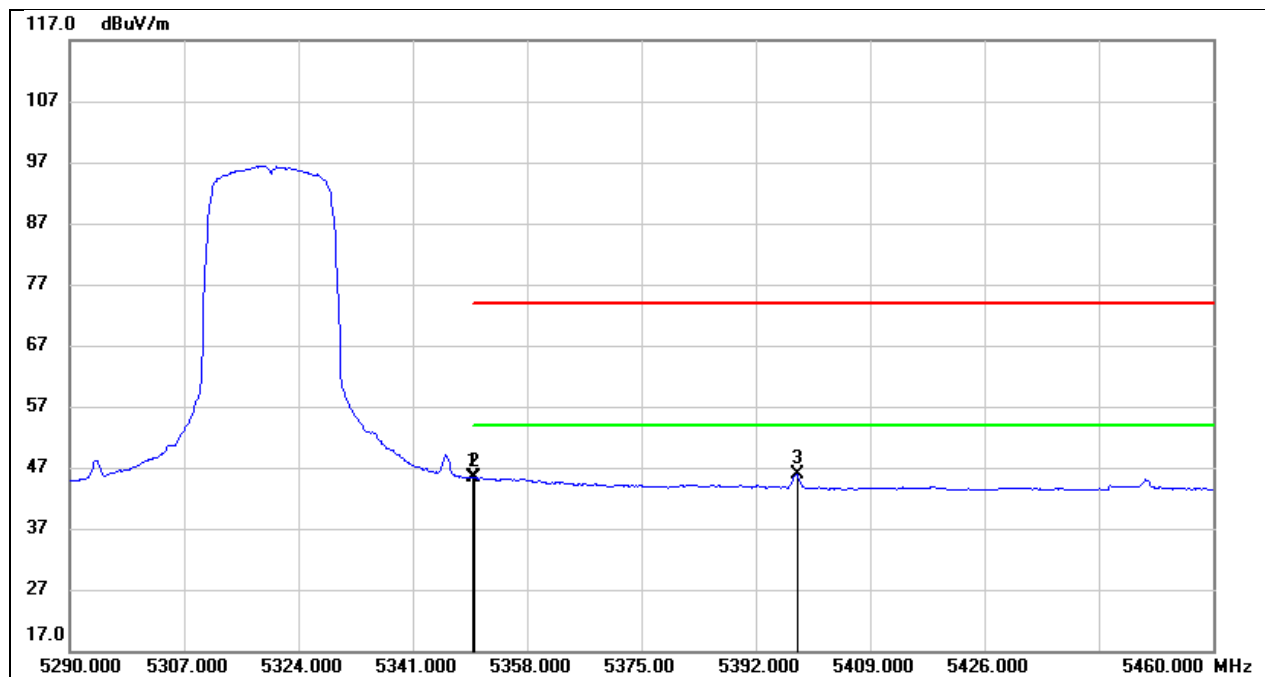
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5129.760	5.46	40.25	45.71	54.00	-8.29	AVG
2	5150.000	3.55	40.27	43.82	54.00	-10.18	AVG
3	5350.000	3.53	40.49	44.02	54.00	-9.98	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



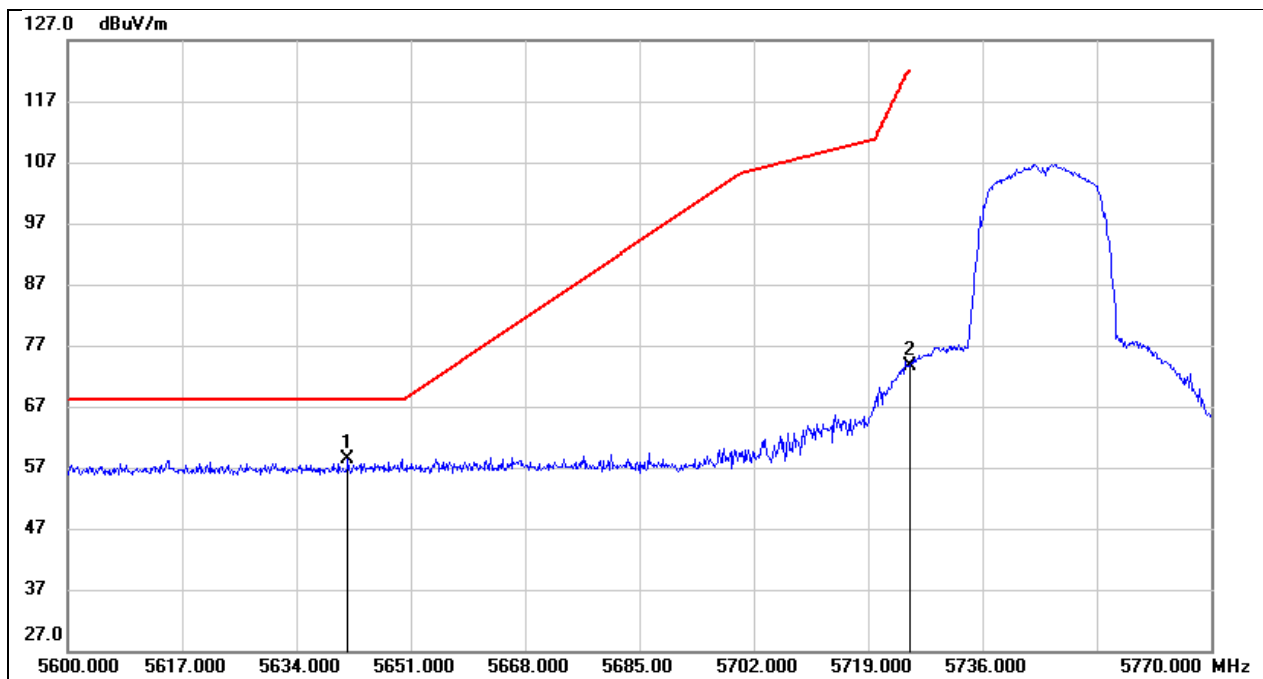
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	19.08	40.49	59.57	74.00	-14.43	peak
2	5350.180	21.44	40.49	61.93	74.00	-12.07	peak
3	5398.120	16.52	40.55	57.07	74.00	-16.93	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



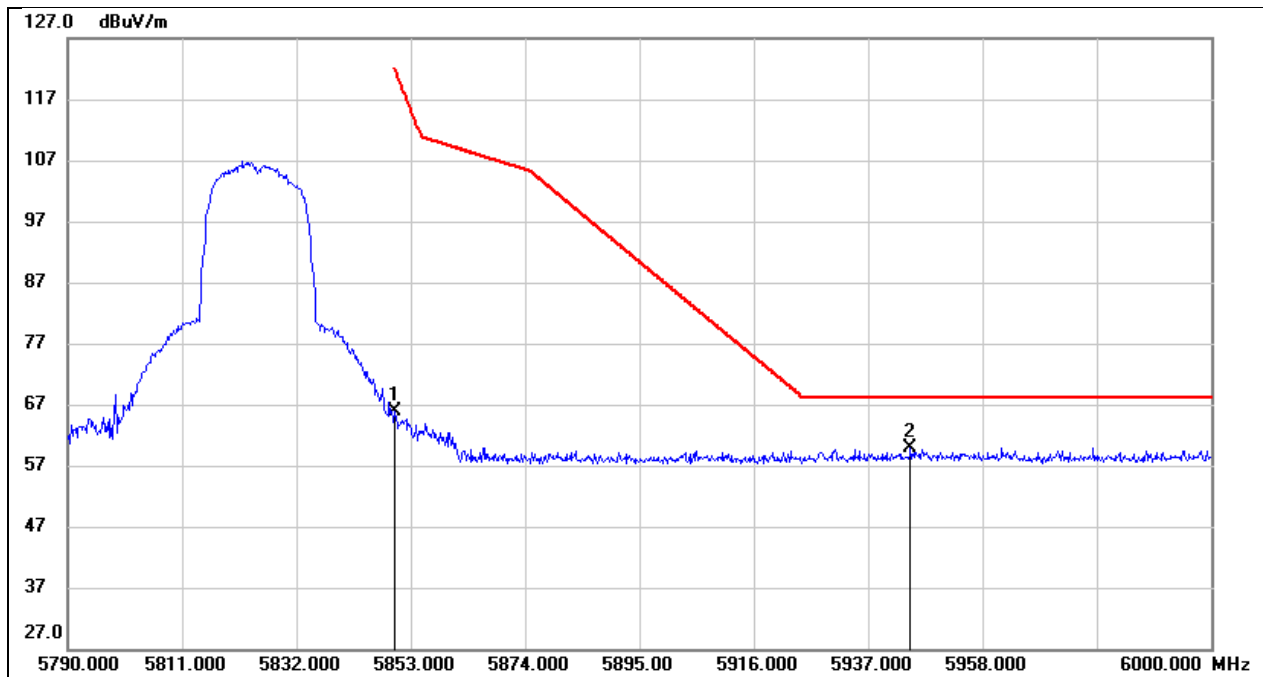
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	4.89	40.49	45.38	54.00	-8.62	AVG
2	5350.180	4.83	40.49	45.32	54.00	-8.68	AVG
3	5398.120	5.32	40.55	45.87	54.00	-8.13	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	5745
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



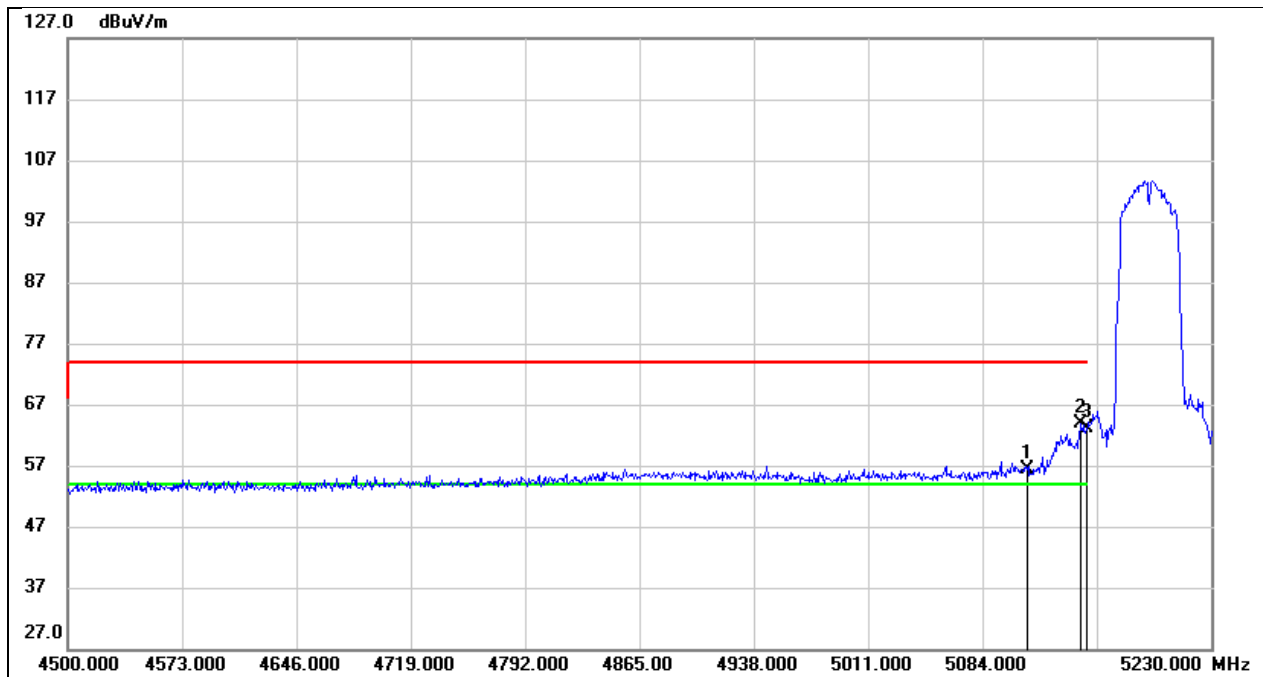
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5641.650	17.32	41.04	58.36	68.20	-9.84	peak
2	5725.000	32.34	41.27	73.61	122.20	-48.59	peak

Test Mode:	802.11n HT20 PK	Frequency(MHz):	5825
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



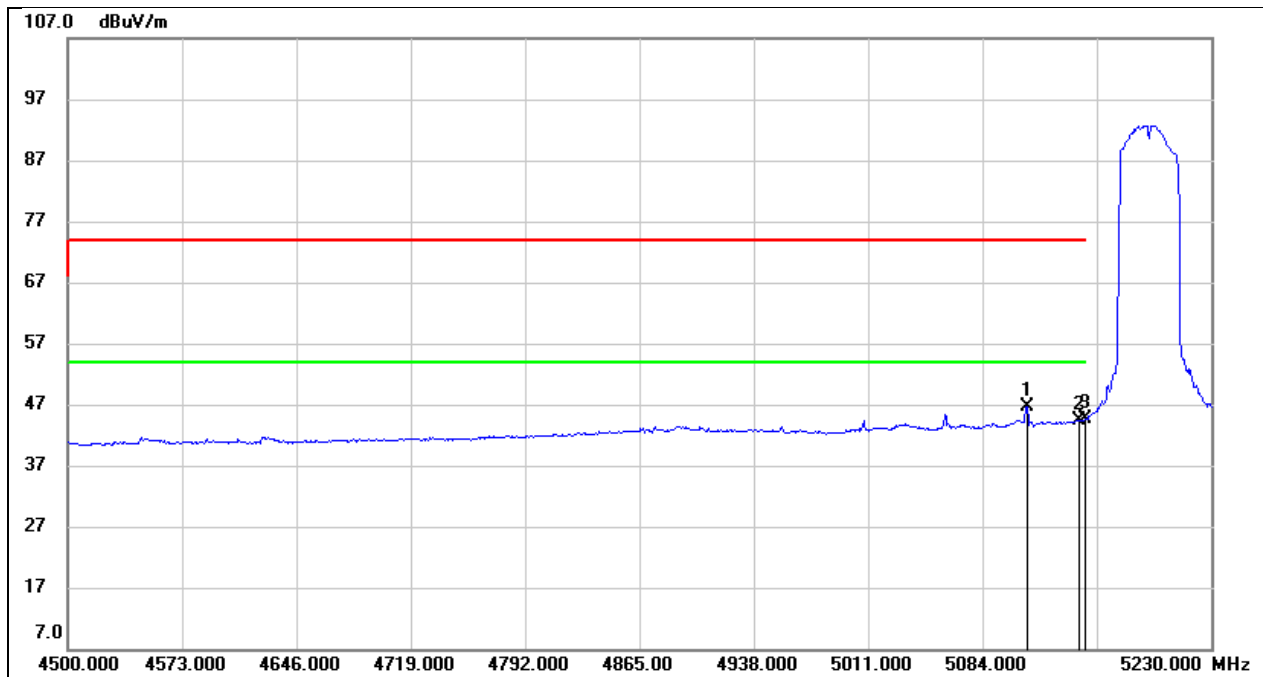
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	24.16	41.60	65.76	122.20	-56.44	peak
2	5944.770	17.96	41.85	59.81	68.20	-8.39	peak

Test Mode:	802.11n HT40 PK	Frequency(MHz):	5190
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



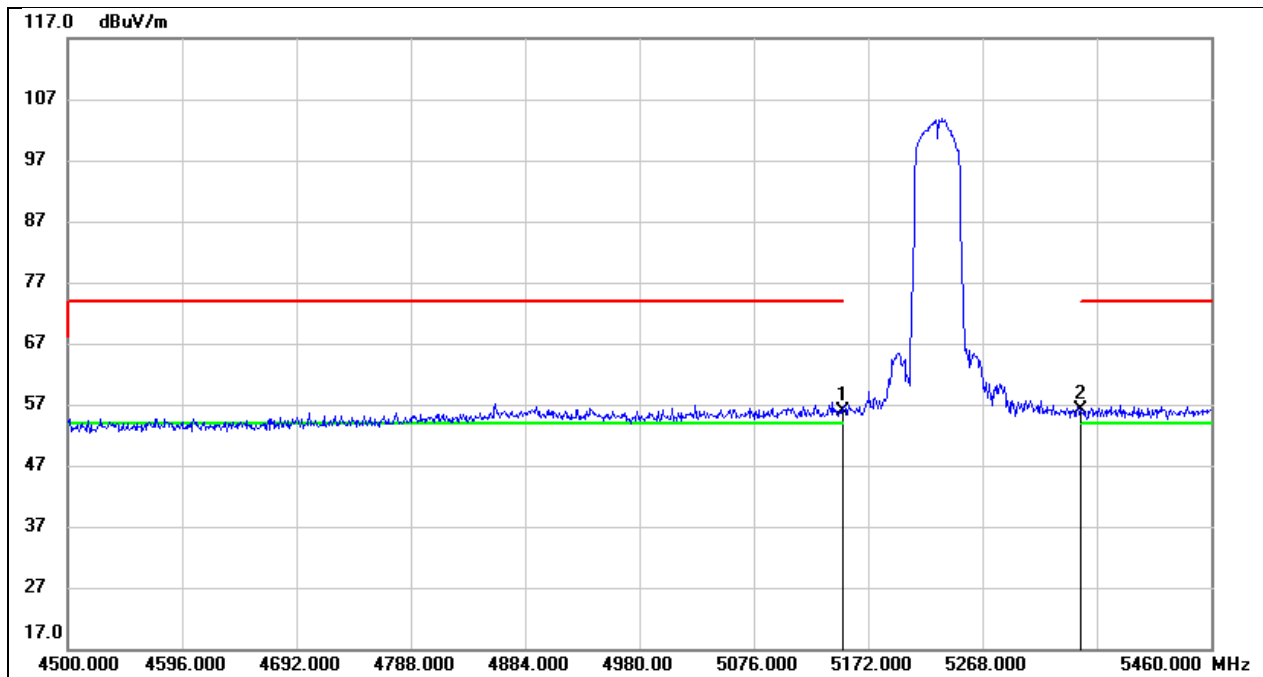
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5112.470	16.11	40.23	56.34	74.00	-17.66	peak
2	5146.780	23.52	40.27	63.79	74.00	-10.21	peak
3	5150.000	22.78	40.27	63.05	74.00	-10.95	peak

Test Mode:	802.11n HT40 AV	Frequency(MHz):	5190
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



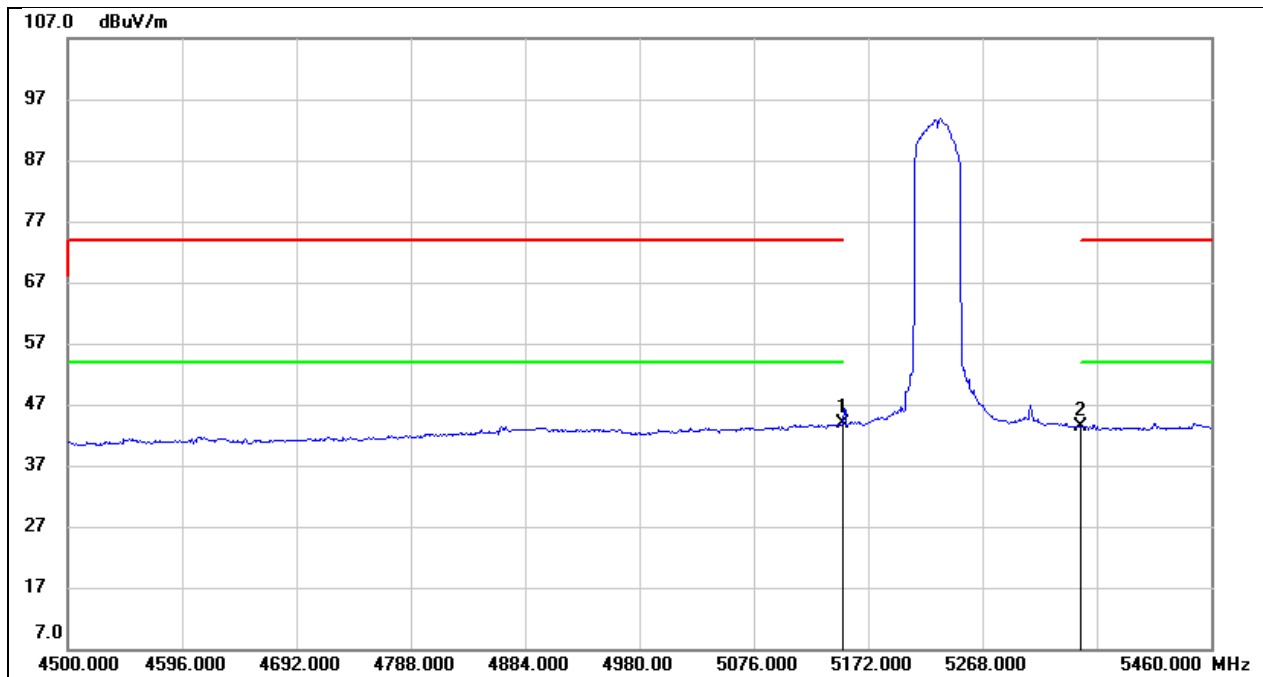
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5112.470	6.43	40.23	46.66	54.00	-7.34	AVG
2	5146.780	4.00	40.27	44.27	54.00	-9.73	AVG
3	5150.000	4.34	40.27	44.61	54.00	-9.39	AVG

Test Mode:	802.11n HT40 PK	Frequency(MHz):	5230
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



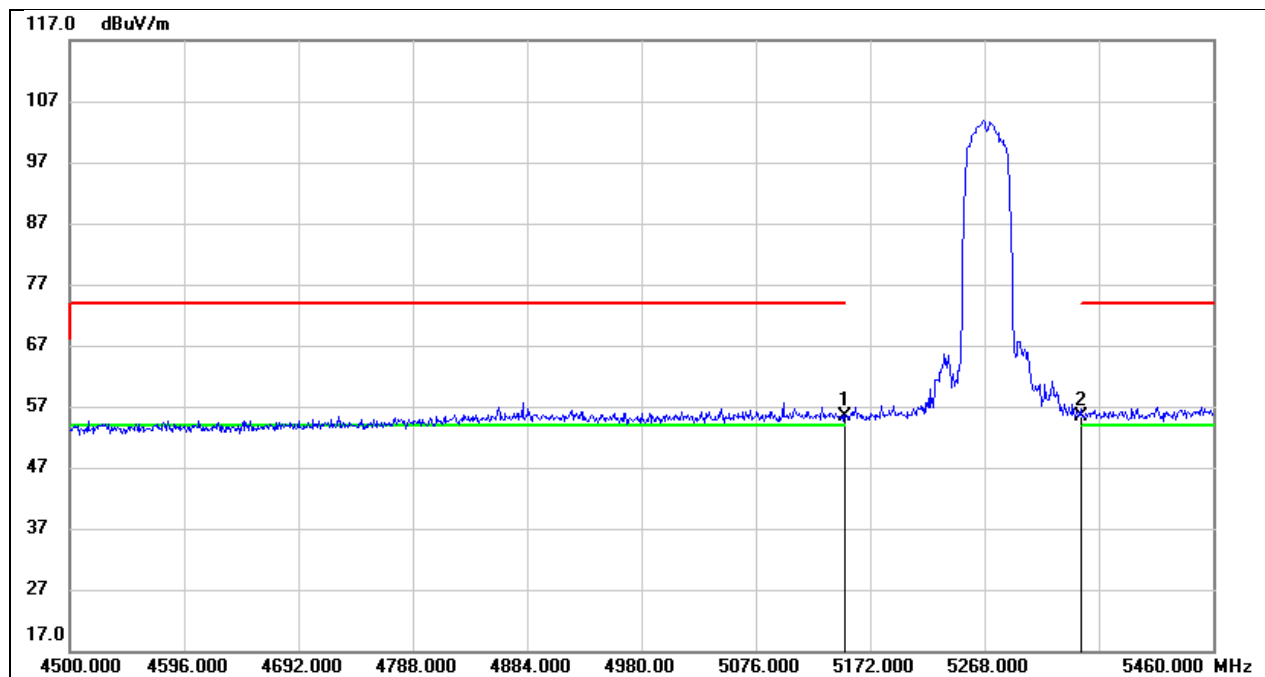
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.57	40.27	55.84	74.00	-18.16	peak
2	5350.000	15.61	40.49	56.10	74.00	-17.90	peak

Test Mode:	802.11n HT40 AV	Frequency(MHz):	5230
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



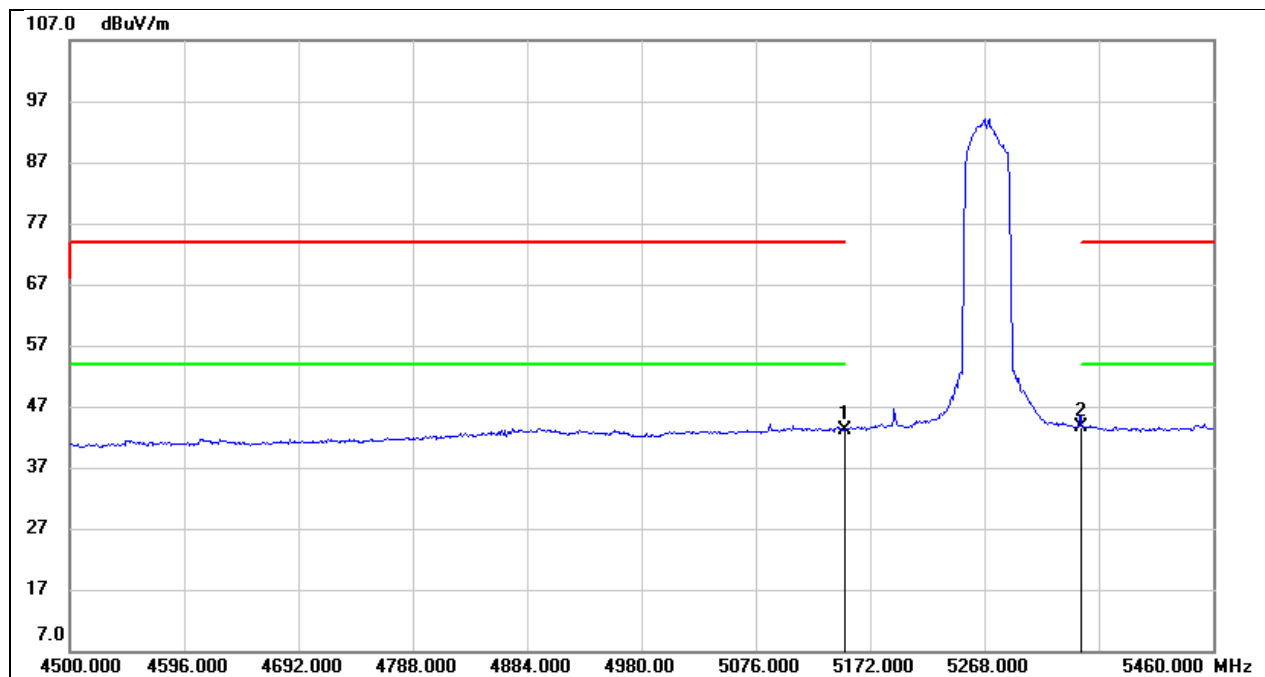
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.70	40.27	43.97	54.00	-10.03	AVG
2	5350.000	2.97	40.49	43.46	54.00	-10.54	AVG

Test Mode:	802.11n HT40 PK	Frequency(MHz):	5270
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



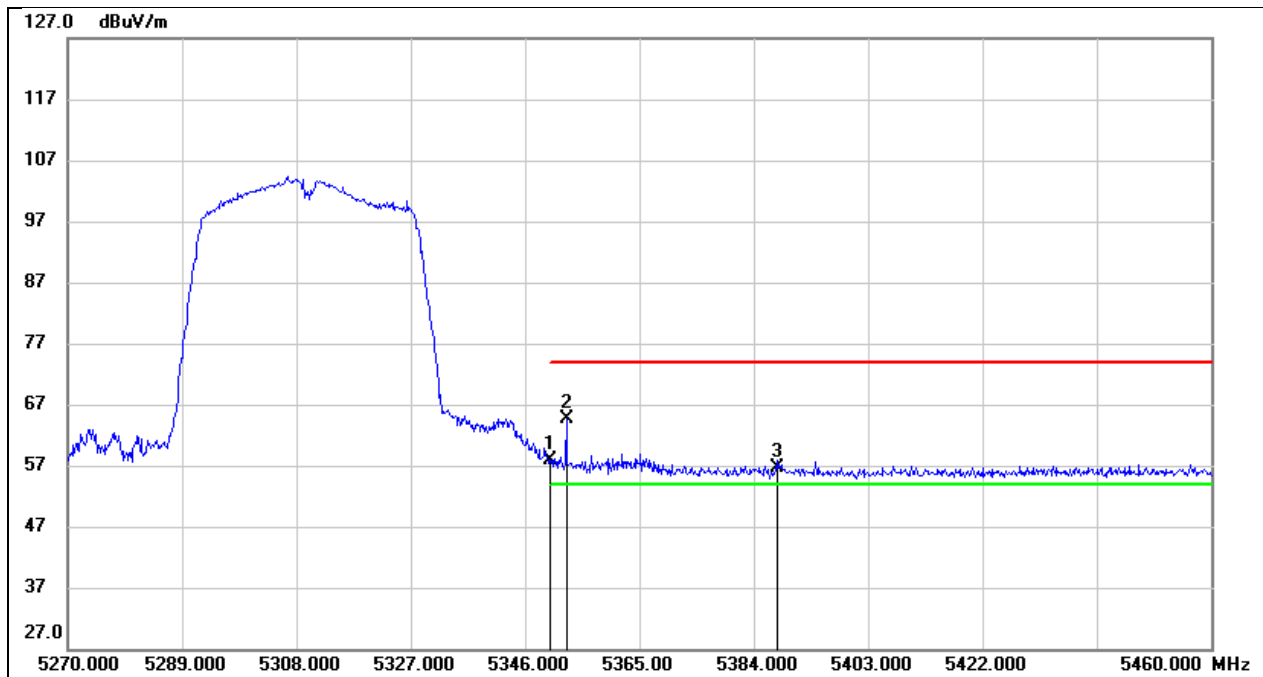
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.23	40.27	55.50	74.00	-18.50	peak
2	5350.000	14.99	40.49	55.48	74.00	-18.52	peak

Test Mode:	802.11n HT40 AV	Frequency(MHz):	5270
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



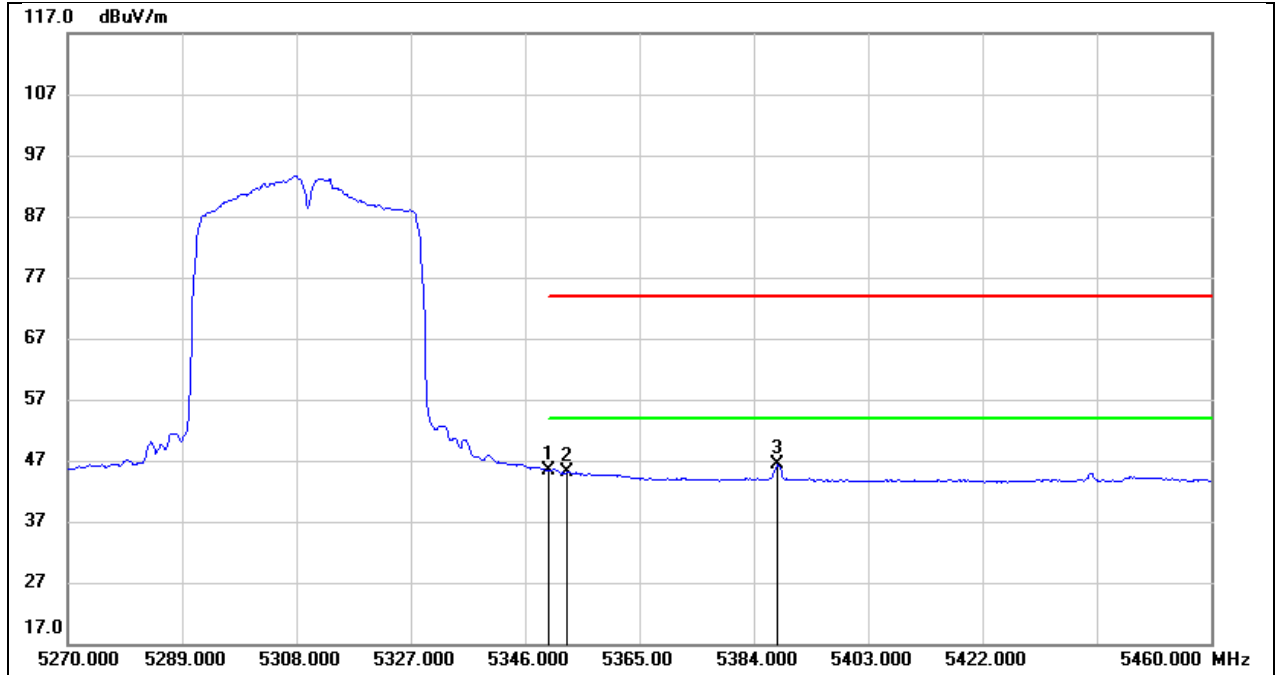
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	2.95	40.27	43.22	54.00	-10.78	AVG
2	5350.000	3.11	40.49	43.60	54.00	-10.40	AVG

Test Mode:	802.11n HT40 PK	Frequency(MHz):	5310
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



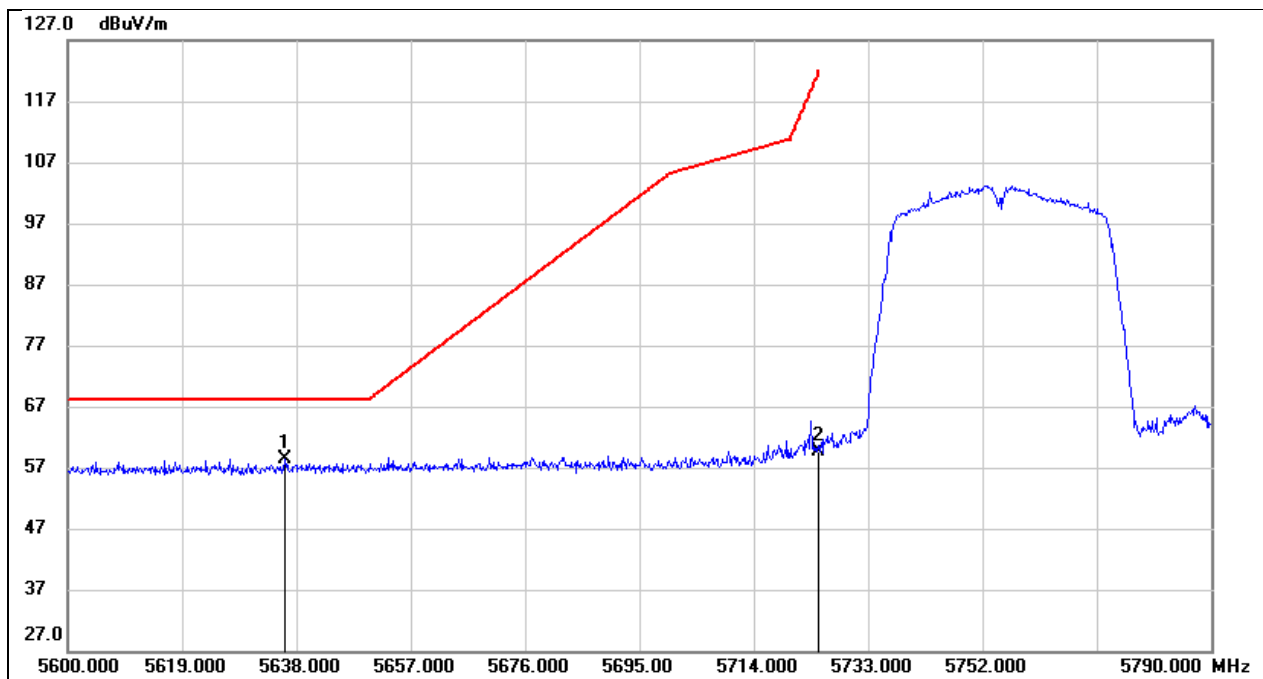
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	17.31	40.49	57.80	74.00	-16.20	peak
2	5352.840	24.24	40.50	64.74	74.00	-9.26	peak
3	5387.990	16.04	40.54	56.58	74.00	-17.42	peak

Test Mode:	802.11n HT40 AV	Frequency(MHz):	5310
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



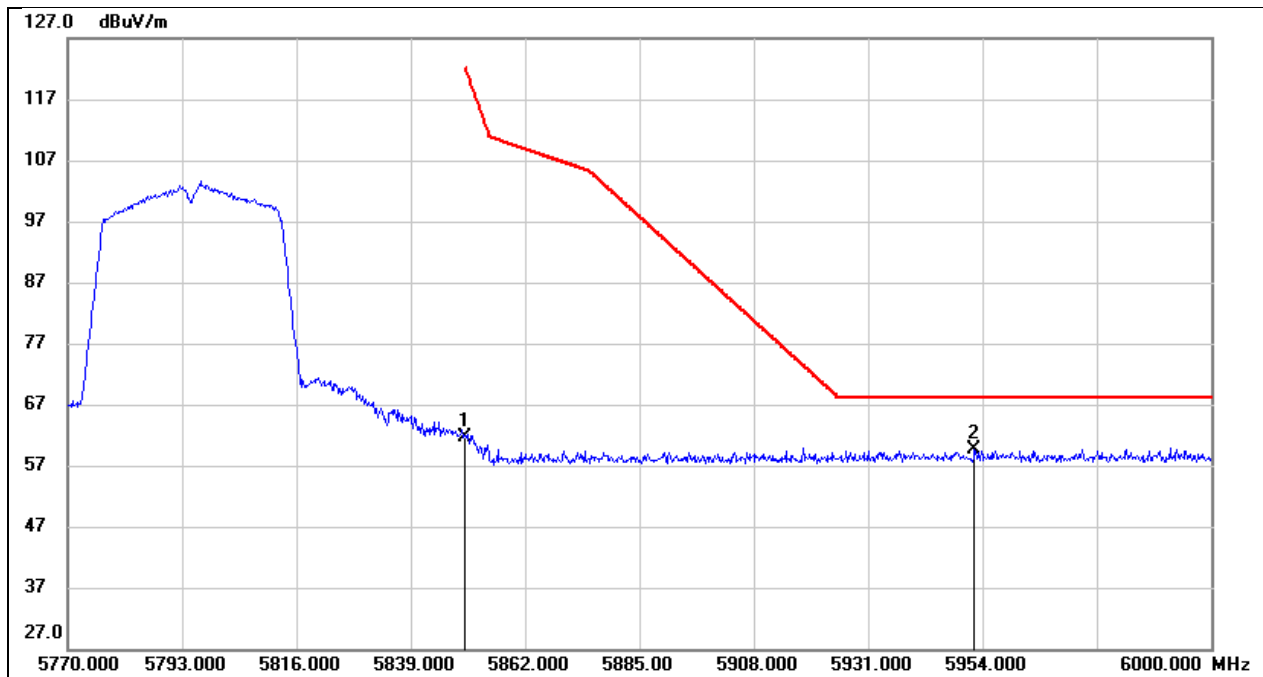
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	4.81	40.49	45.30	54.00	-8.70	AVG
2	5352.840	4.52	40.50	45.02	54.00	-8.98	AVG
3	5387.990	5.77	40.54	46.31	54.00	-7.69	AVG

Test Mode:	802.11n HT40 PK	Frequency(MHz):	5755
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



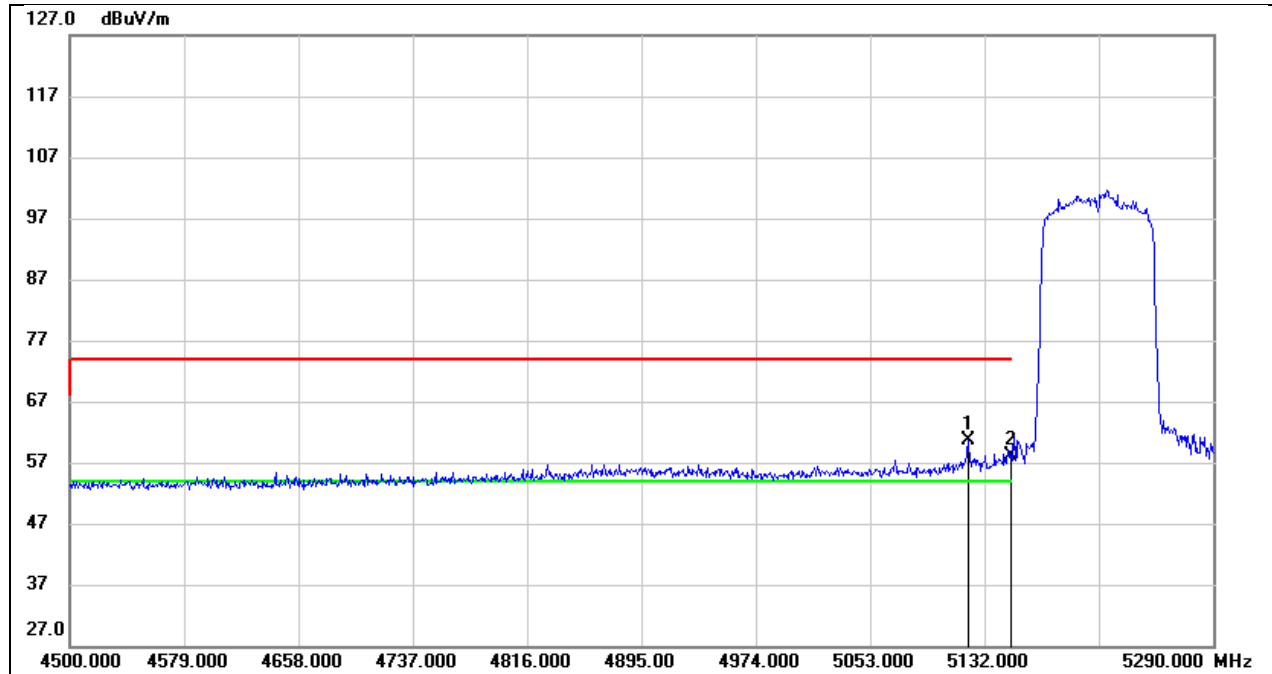
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5636.100	17.35	41.03	58.38	68.20	-9.82	peak
2	5725.000	18.47	41.27	59.74	122.20	-62.46	peak

Test Mode:	802.11n HT40 PK	Frequency(MHz):	5795
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



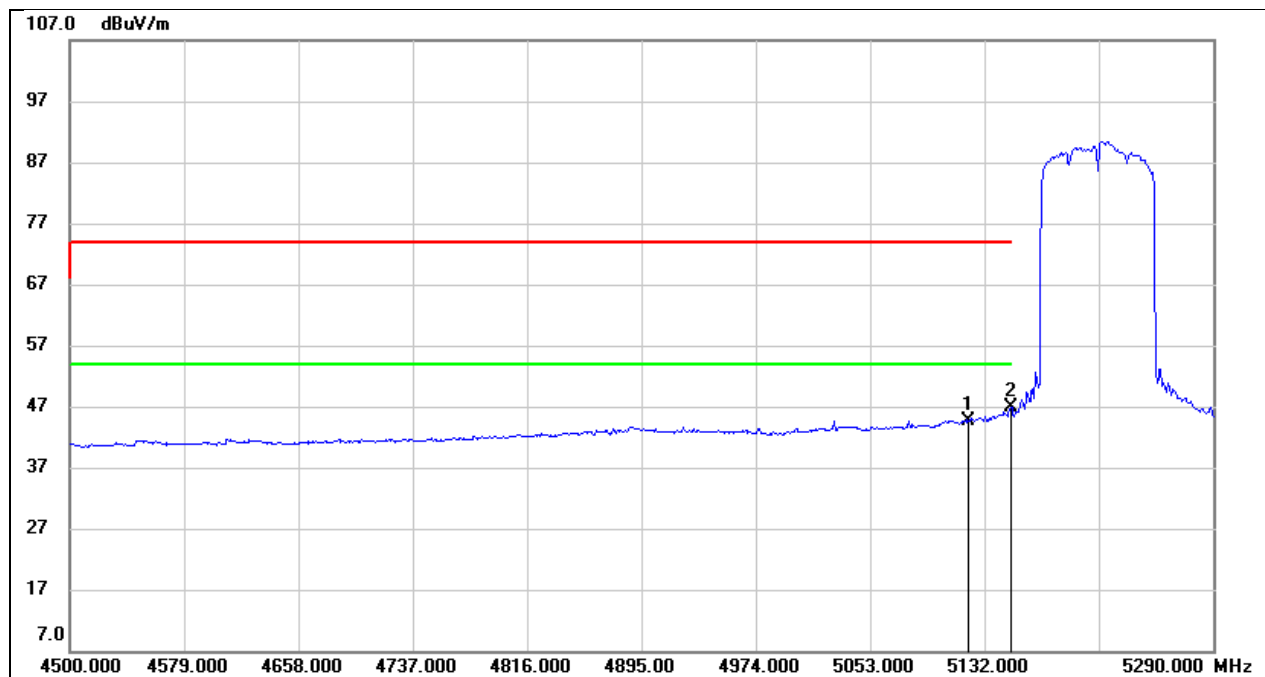
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	20.13	41.60	61.73	122.20	-60.47	peak
2	5952.390	17.64	41.87	59.51	68.20	-8.69	peak

Test Mode:	802.11ac VHT80 PK	Frequency(MHz):	5210
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



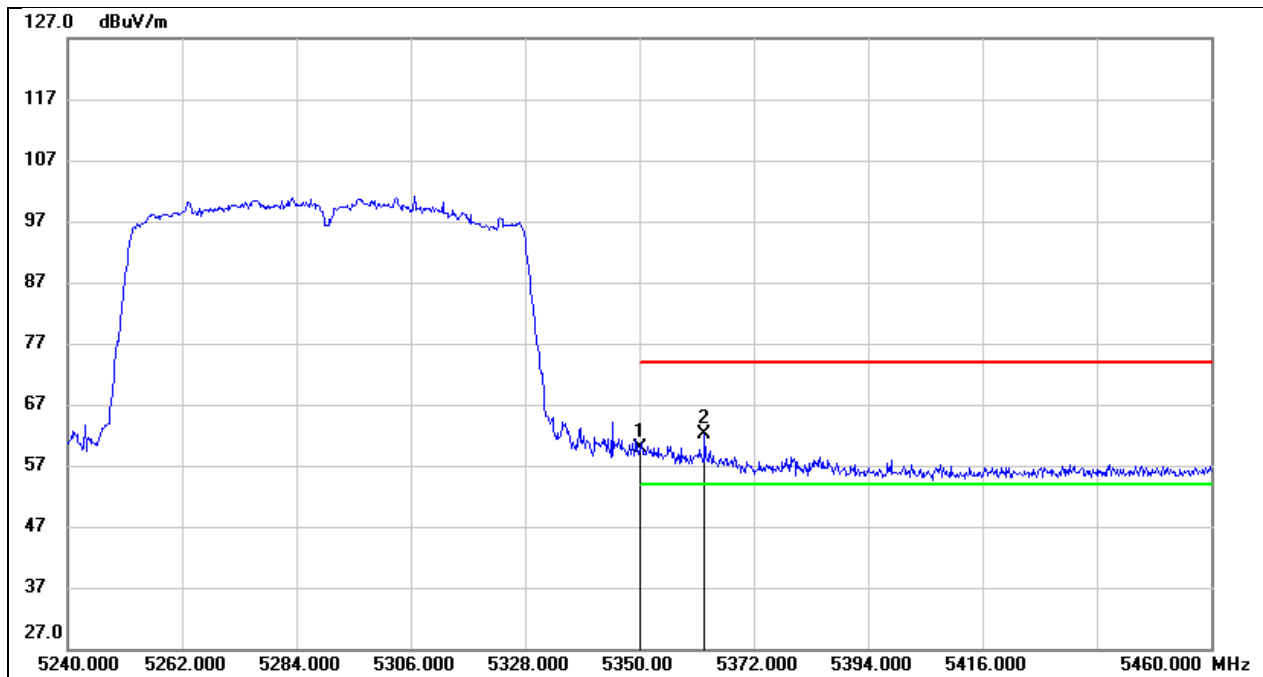
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5120.940	20.35	40.24	60.59	74.00	-13.41	peak
2	5150.000	17.94	40.27	58.21	74.00	-15.79	peak

Test Mode:	802.11ac VHT80 AV	Frequency(MHz):	5210
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



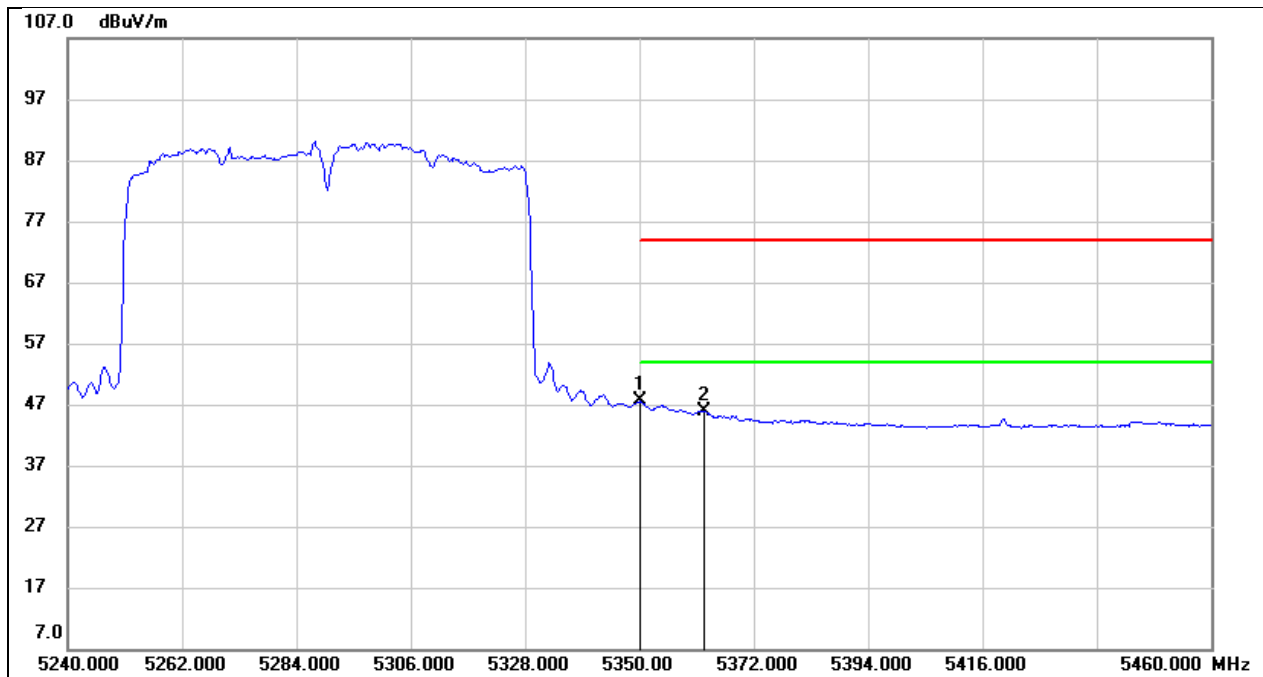
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5120.940	4.42	40.24	44.66	54.00	-9.34	AVG
2	5150.000	6.62	40.27	46.89	54.00	-7.11	AVG

Test Mode:	802.11ac VHT80 PK	Frequency(MHz):	5290
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



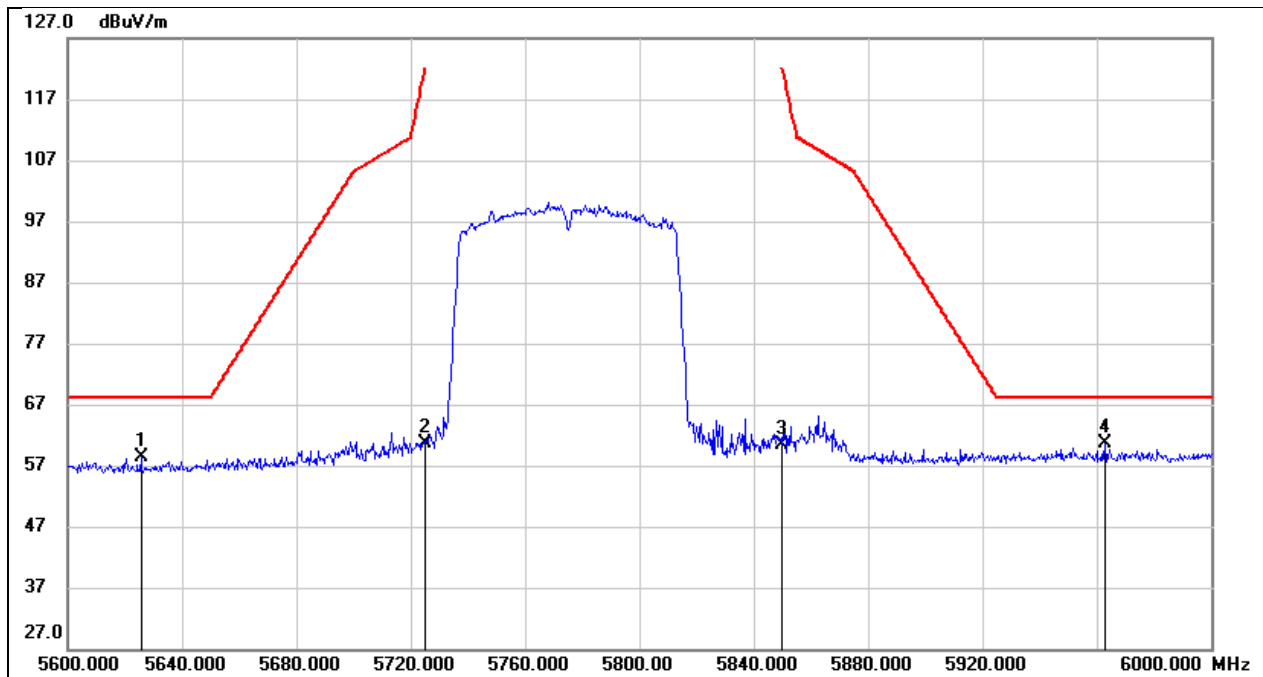
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	19.41	40.49	59.90	74.00	-14.10	peak
2	5362.540	21.54	40.51	62.05	74.00	-11.95	peak

Test Mode:	802.11ac VHT80 AV	Frequency(MHz):	5290
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	7.06	40.49	47.55	54.00	-6.45	AVG
2	5362.540	5.37	40.51	45.88	54.00	-8.12	AVG

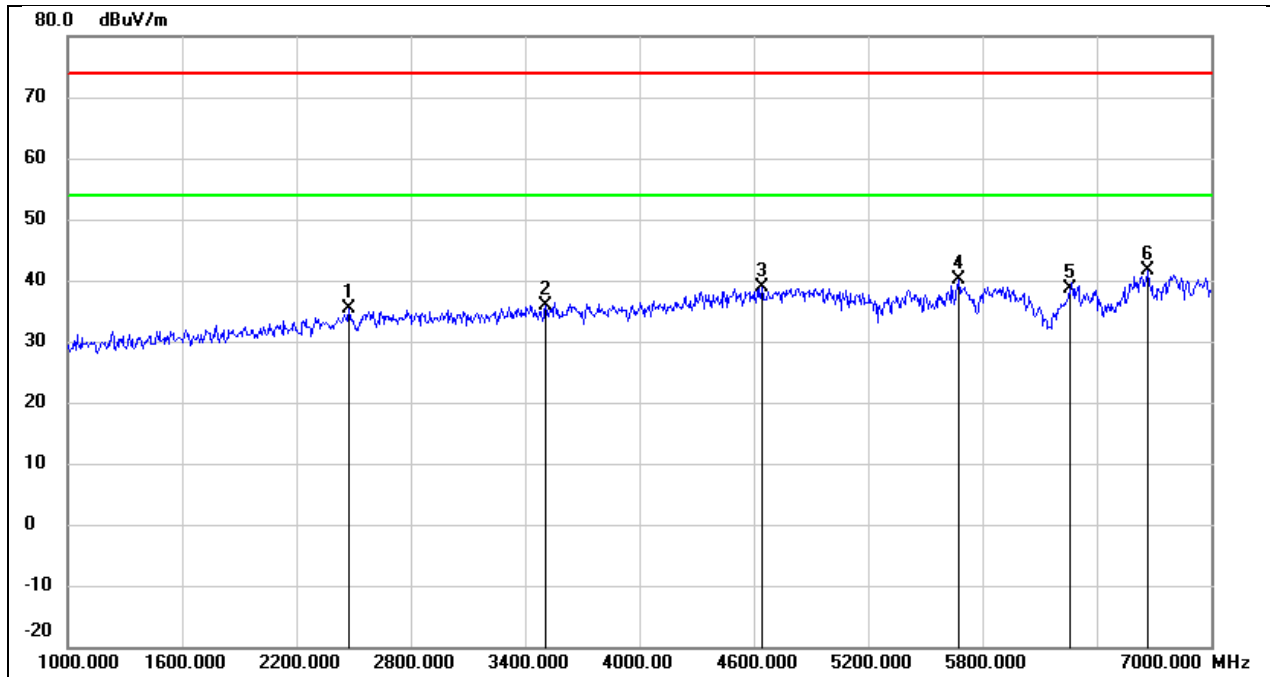
Test Mode:	802.11ac VHT80 PK	Frequency(MHz):	5775
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5625.600	17.29	41.00	58.29	68.20	-9.91	peak
2	5725.000	19.44	41.27	60.71	122.20	-61.49	peak
3	5850.000	18.83	41.60	60.43	122.20	-61.77	peak
4	5962.800	18.74	41.90	60.64	68.20	-7.56	peak

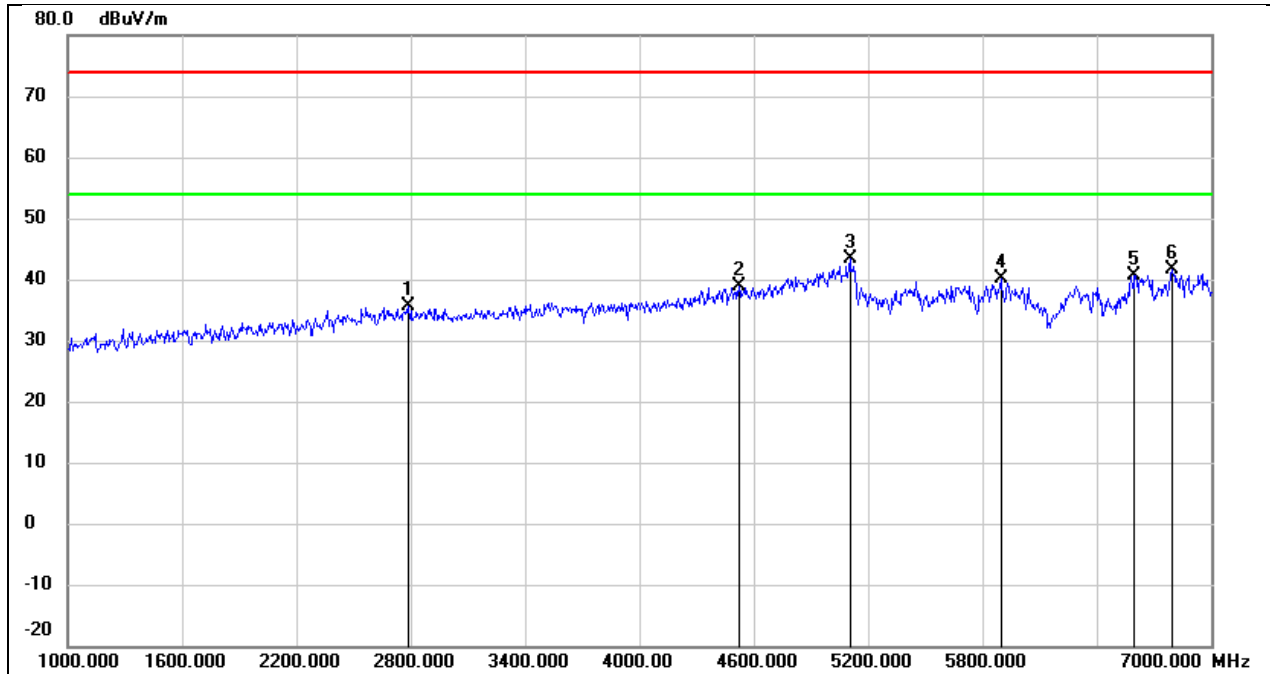
8.2. SPURIOUS EMISSIONS(1 GHZ~7 GHZ)

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



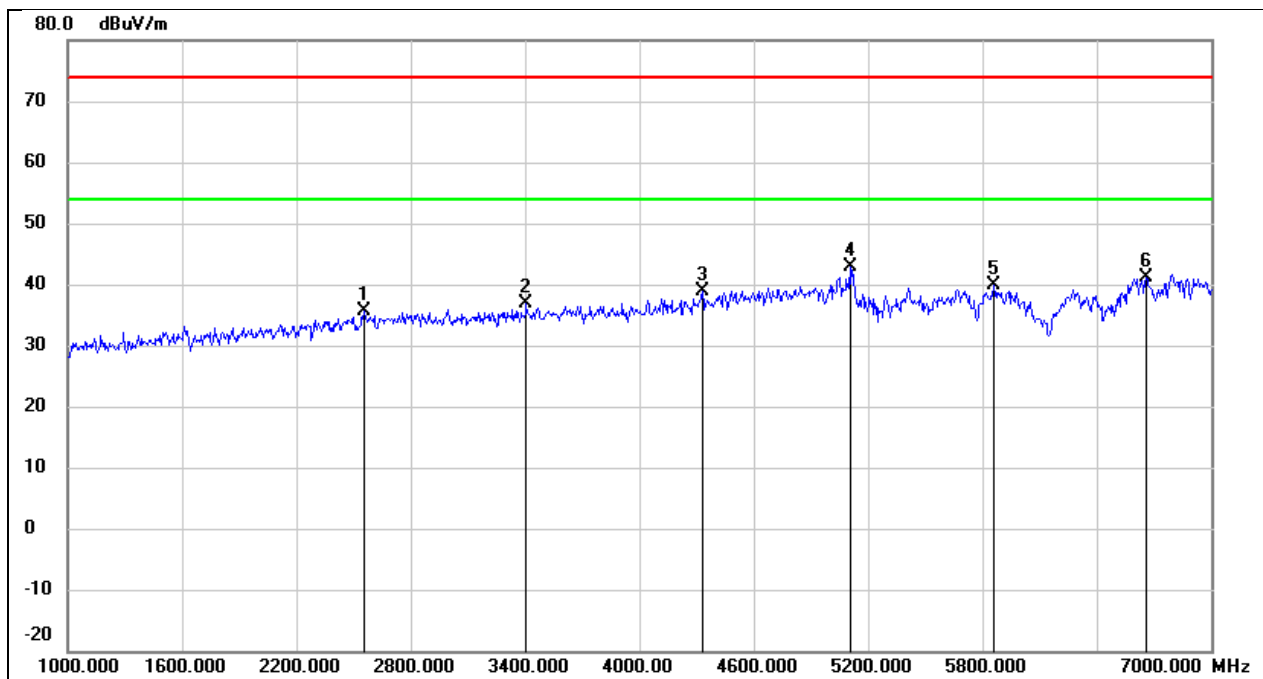
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2476.000	43.87	-8.61	35.26	74.00	-38.74	peak
2	3508.000	41.58	-5.82	35.76	74.00	-38.24	peak
3	4642.000	40.35	-1.57	38.78	74.00	-35.22	peak
4	5674.000	39.20	0.92	40.12	74.00	-33.88	peak
5	6256.000	35.74	2.80	38.54	74.00	-35.46	peak
6	6670.000	36.97	4.57	41.54	74.00	-32.46	peak

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	7.2 Vdc



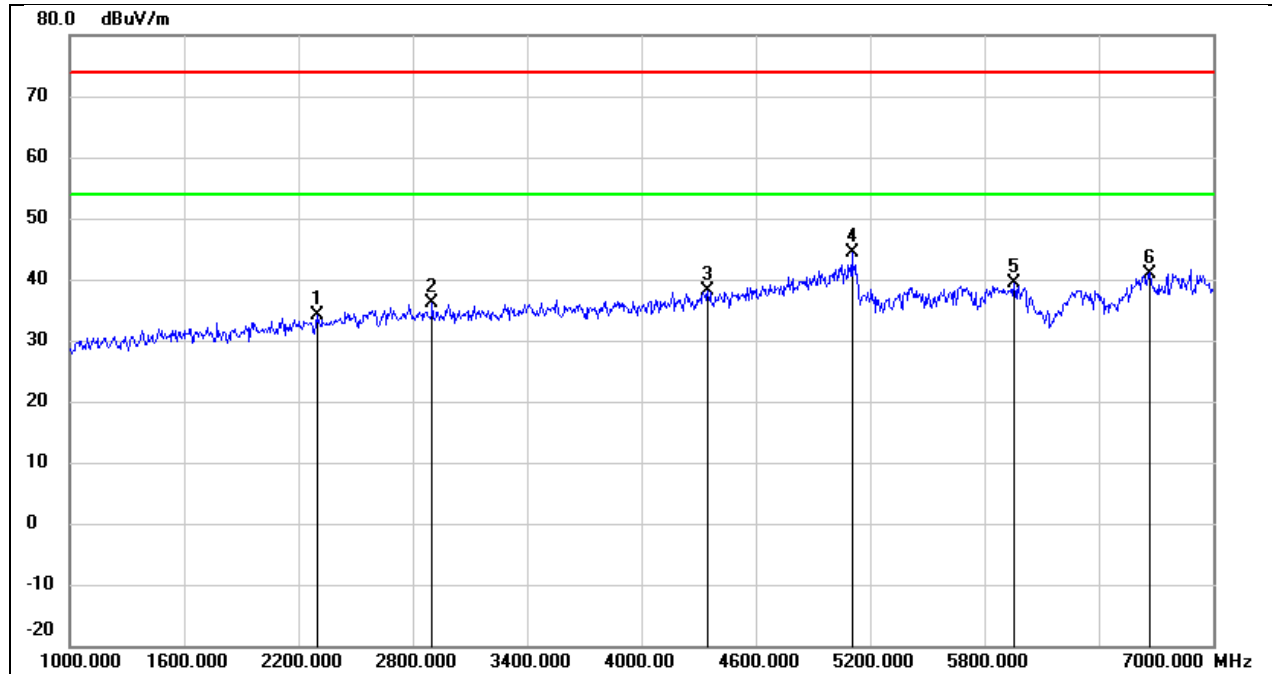
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2788.000	43.21	-7.62	35.59	74.00	-38.41	peak
2	4522.000	40.97	-2.05	38.92	74.00	-35.08	peak
3	5104.000	43.38	-0.03	43.35	74.00	-30.65	peak
4	5896.000	38.46	1.56	40.02	74.00	-33.98	peak
5	6598.000	36.42	4.21	40.63	74.00	-33.37	peak
6	6796.000	36.45	5.19	41.64	74.00	-32.36	peak

Test Mode:	802.11a 20	Frequency(MHz):	5200
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



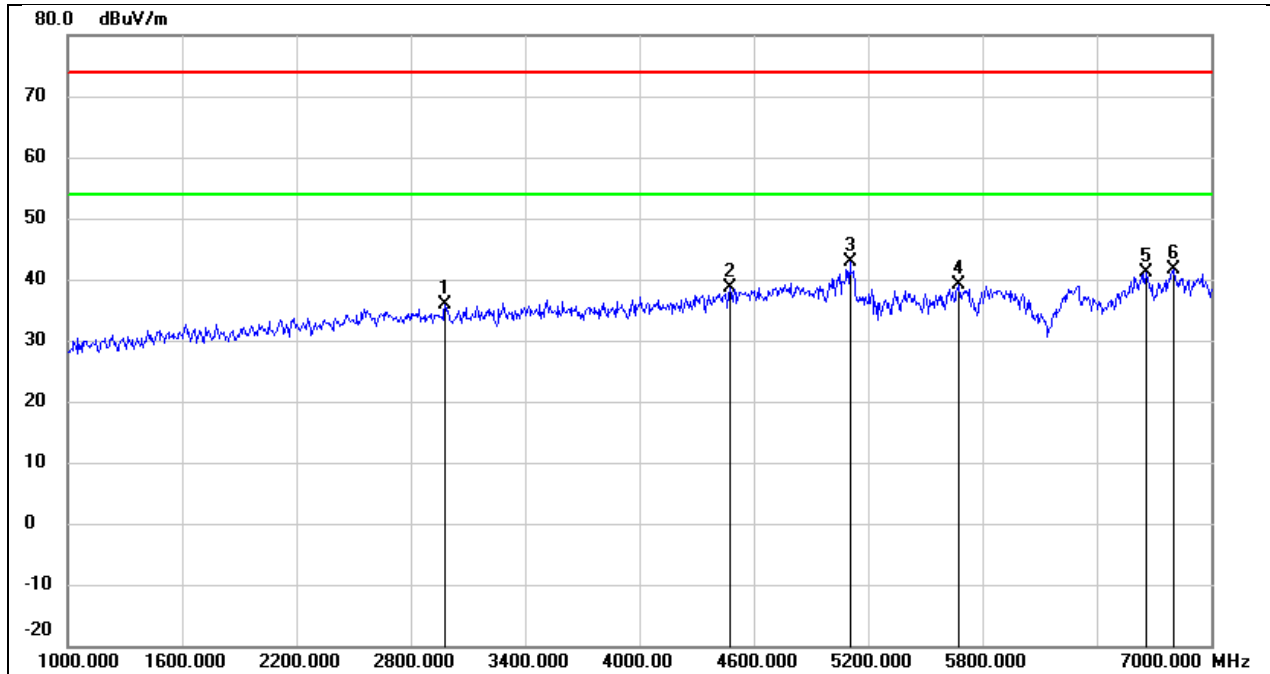
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2554.000	43.85	-8.32	35.53	74.00	-38.47	peak
2	3406.000	42.83	-6.06	36.77	74.00	-37.23	peak
3	4330.000	41.83	-2.94	38.89	74.00	-35.11	peak
4	5104.000	42.88	-0.03	42.85	74.00	-31.15	peak
5	5860.000	38.48	1.45	39.93	74.00	-34.07	peak
6	6658.000	36.61	4.49	41.10	74.00	-32.90	peak

Test Mode:	802.11a 20	Frequency(MHz):	5200
Polarity:	Vertical	Test Voltage:	7.2 Vdc



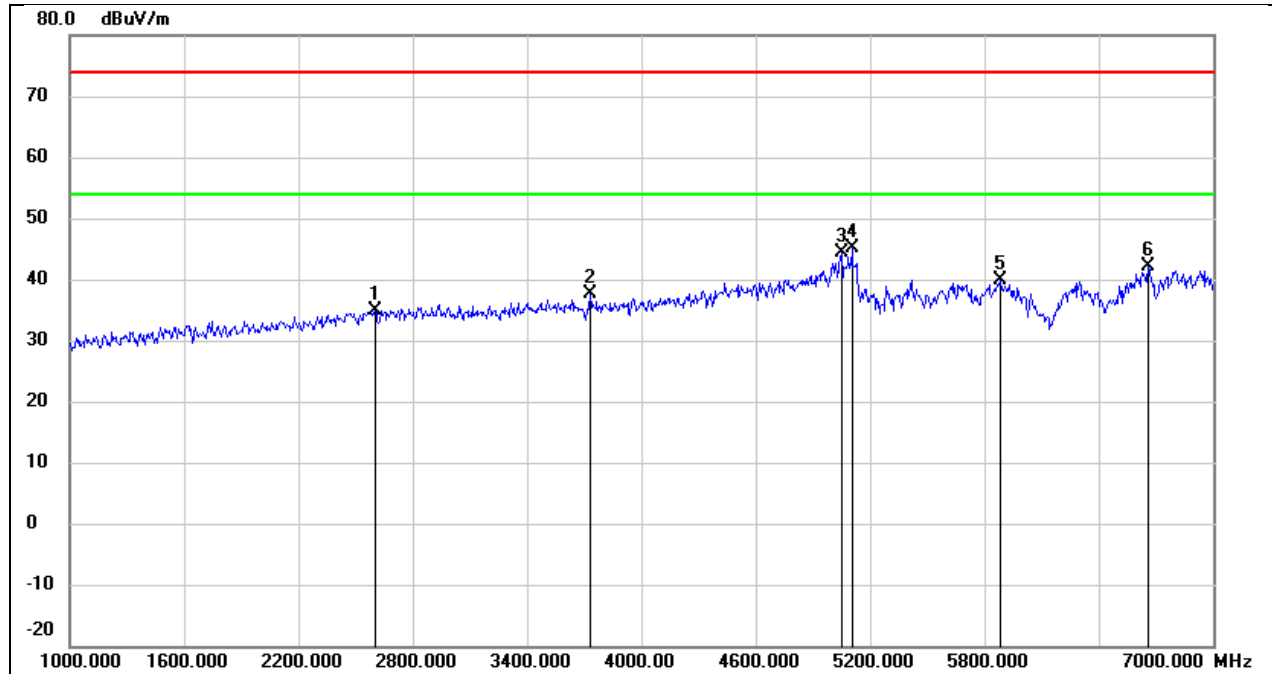
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2296.000	43.58	-9.54	34.04	74.00	-39.96	peak
2	2902.000	43.37	-7.28	36.09	74.00	-37.91	peak
3	4348.000	40.94	-2.85	38.09	74.00	-35.91	peak
4	5104.000	44.43	-0.03	44.40	74.00	-29.60	peak
5	5956.000	37.65	1.73	39.38	74.00	-34.62	peak
6	6664.000	36.46	4.54	41.00	74.00	-33.00	peak

Test Mode:	802.11a 20	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



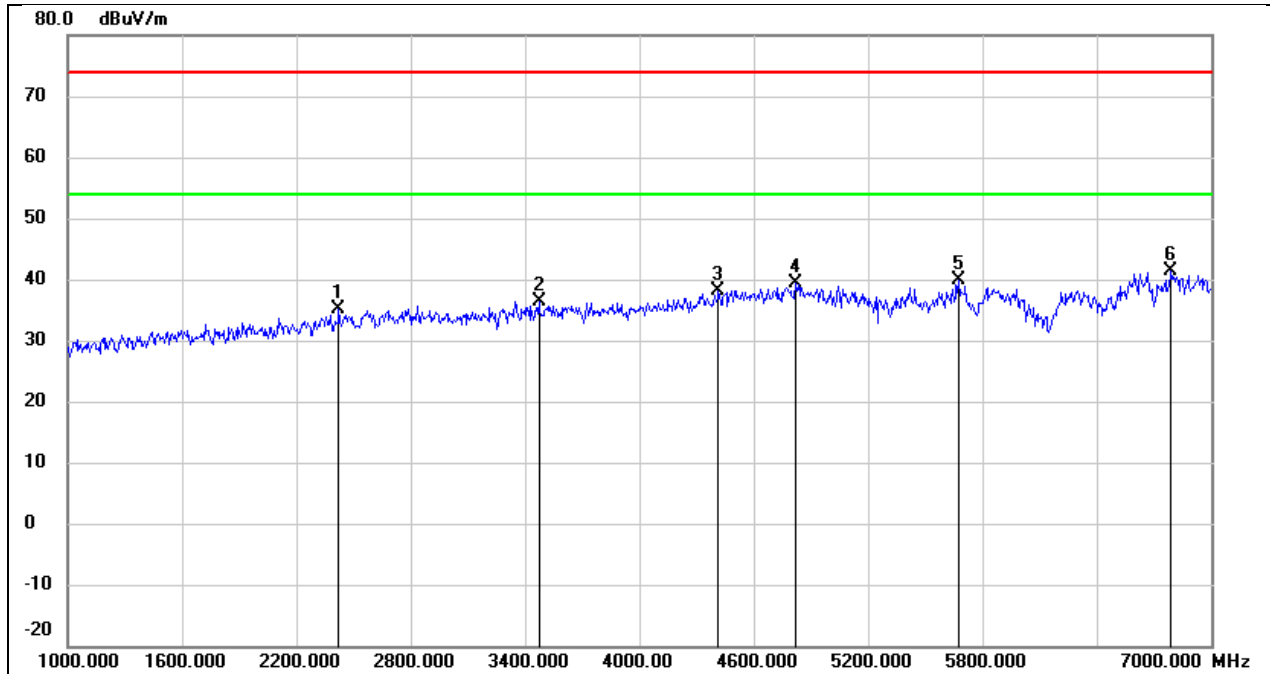
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2980.000	42.82	-7.04	35.78	74.00	-38.22	peak
2	4474.000	40.85	-2.26	38.59	74.00	-35.41	peak
3	5104.000	42.85	-0.03	42.82	74.00	-31.18	peak
4	5674.000	38.12	0.92	39.04	74.00	-34.96	peak
5	6658.000	36.60	4.49	41.09	74.00	-32.91	peak
6	6802.000	36.39	5.21	41.60	74.00	-32.40	peak

Test Mode:	802.11a 20	Frequency(MHz):	5240
Polarity:	Vertical	Test Voltage:	7.2 Vdc



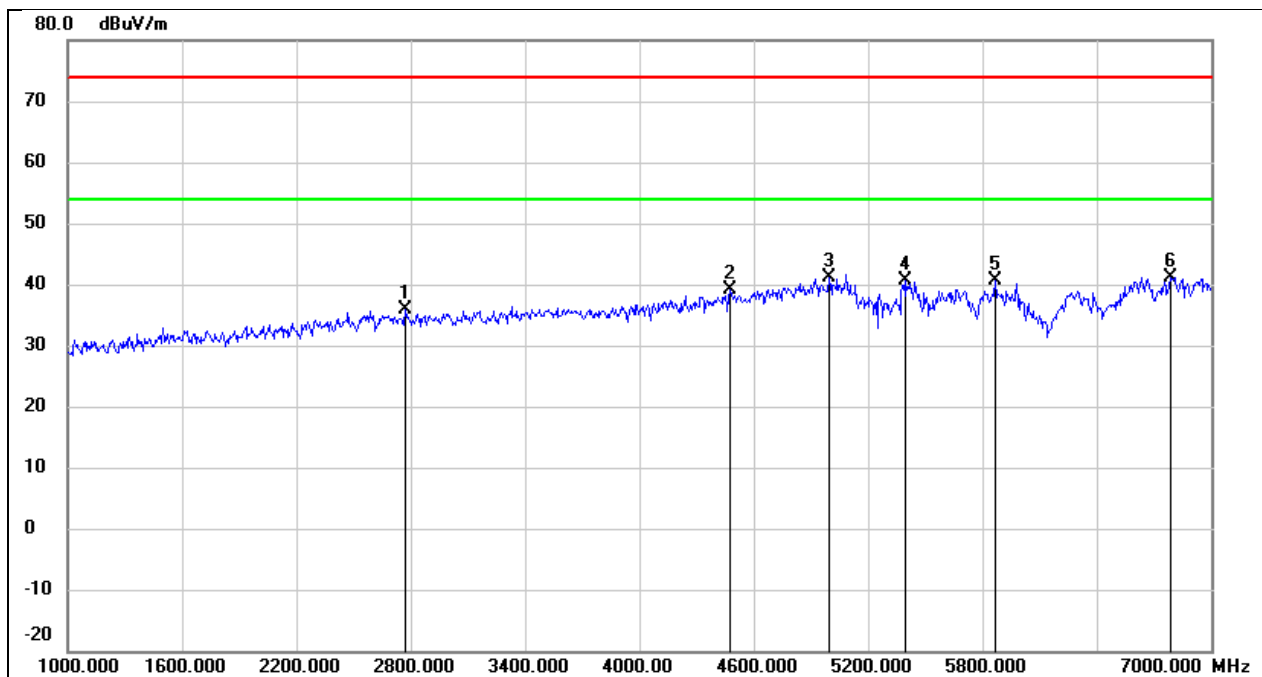
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2602.000	43.13	-8.19	34.94	74.00	-39.06	peak
2	3730.000	42.94	-5.22	37.72	74.00	-36.28	peak
3	5050.000	44.46	-0.09	44.37	74.00	-29.63	peak
4	5104.000	45.17	-0.03	45.14	74.00	-28.86	peak
5	5884.000	38.24	1.52	39.76	74.00	-34.24	peak
6	6658.000	37.75	4.49	42.24	74.00	-31.76	peak

Test Mode:	802.11a 20	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



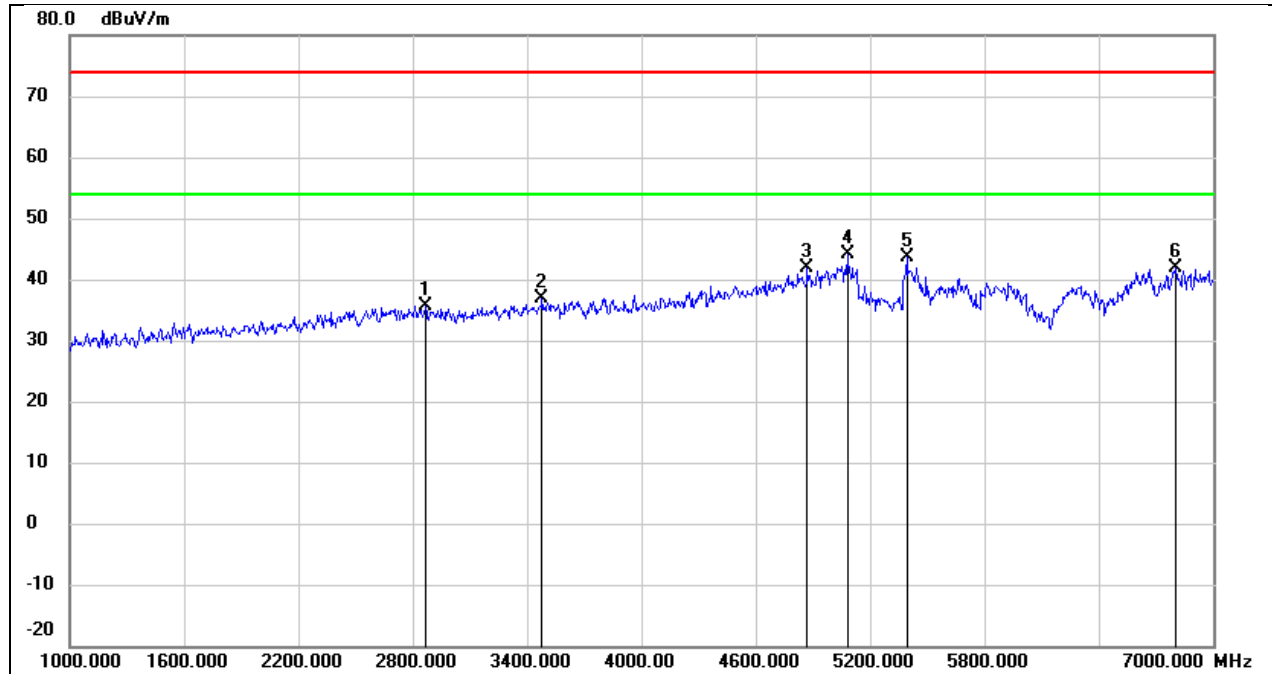
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2422.000	43.90	-8.88	35.02	74.00	-38.98	peak
2	3472.000	42.34	-5.91	36.43	74.00	-37.57	peak
3	4414.000	40.68	-2.54	38.14	74.00	-35.86	peak
4	4816.000	40.34	-0.89	39.45	74.00	-34.55	peak
5	5674.000	38.98	0.92	39.90	74.00	-34.10	peak
6	6790.000	36.15	5.15	41.30	74.00	-32.70	peak

Test Mode:	802.11a 20	Frequency(MHz):	5260
Polarity:	Vertical	Test Voltage:	7.2 Vdc



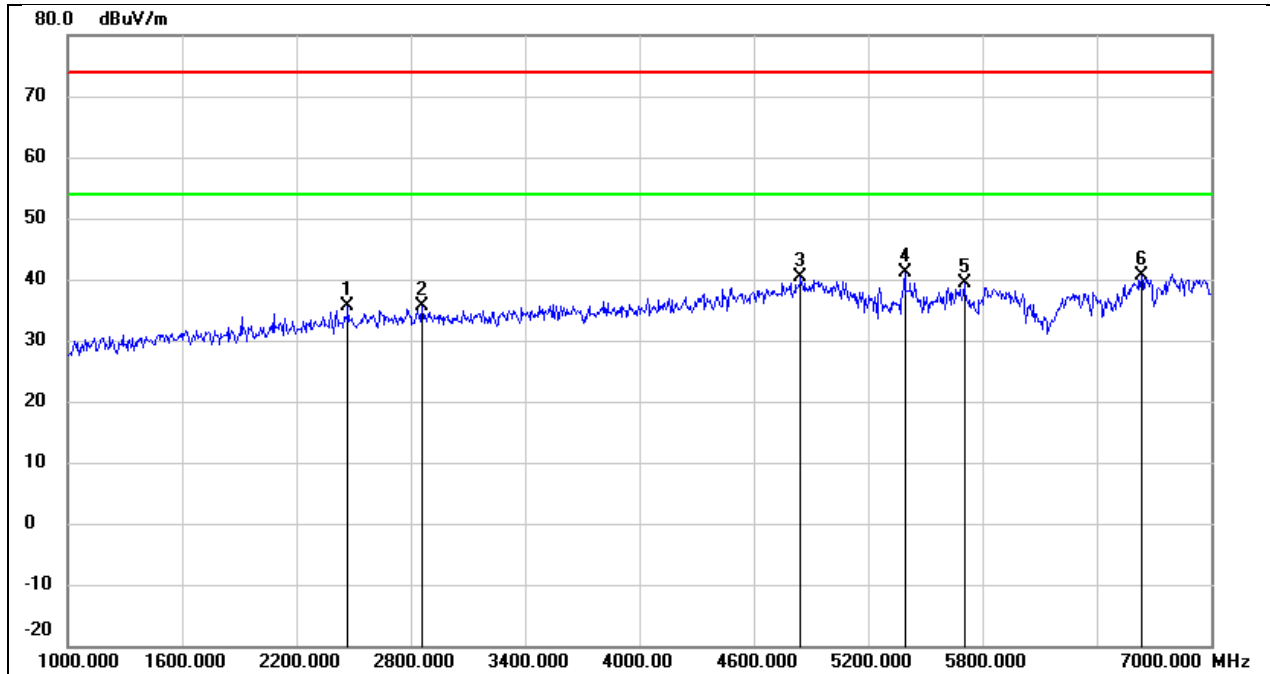
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2770.000	43.58	-7.67	35.91	74.00	-38.09	peak
2	4474.000	41.36	-2.26	39.10	74.00	-34.90	peak
3	4996.000	41.39	-0.17	41.22	74.00	-32.78	peak
4	5392.000	40.41	0.29	40.70	74.00	-33.30	peak
5	5866.000	39.21	1.47	40.68	74.00	-33.32	peak
6	6790.000	36.04	5.15	41.19	74.00	-32.81	peak

Test Mode:	802.11a 20	Frequency(MHz):	5280
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



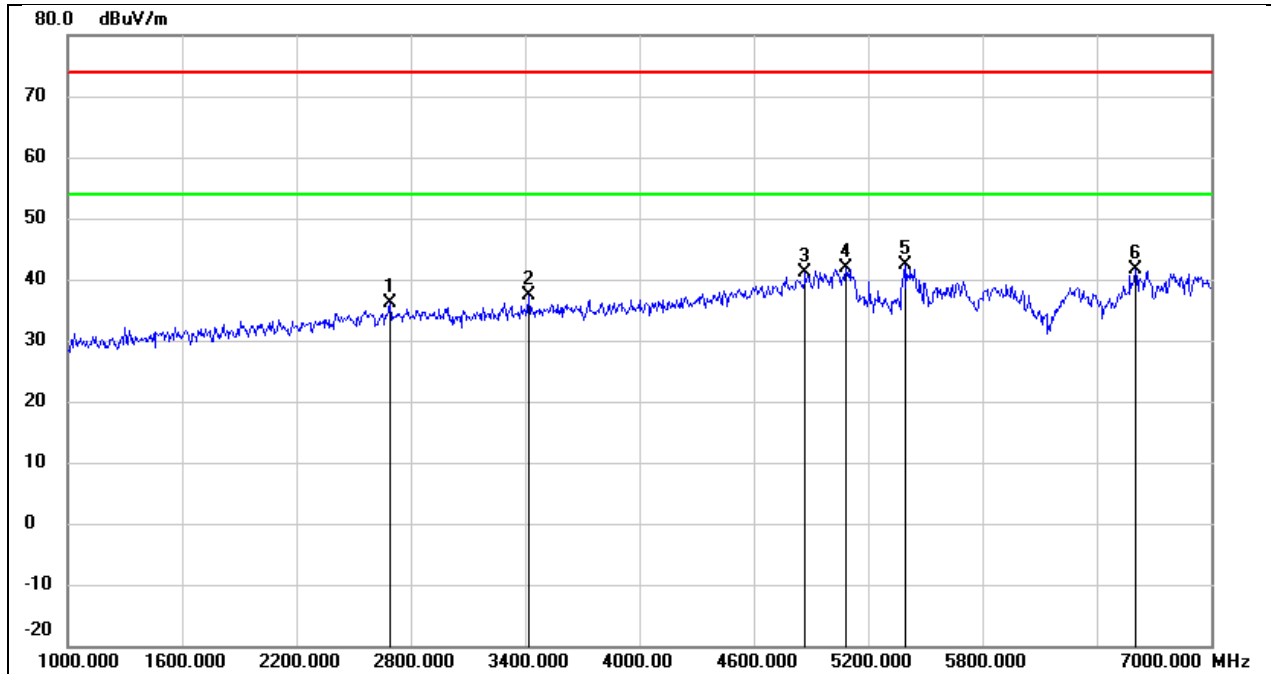
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2866.000	43.04	-7.38	35.66	74.00	-38.34	peak
2	3478.000	42.89	-5.90	36.99	74.00	-37.01	peak
3	4870.000	42.55	-0.66	41.89	74.00	-32.11	peak
4	5080.000	44.14	-0.06	44.08	74.00	-29.92	peak
5	5392.000	43.41	0.29	43.70	74.00	-30.30	peak
6	6802.000	36.58	5.21	41.79	74.00	-32.21	peak

Test Mode:	802.11a 20	Frequency(MHz):	5280
Polarity:	Vertical	Test Voltage:	7.2 Vdc



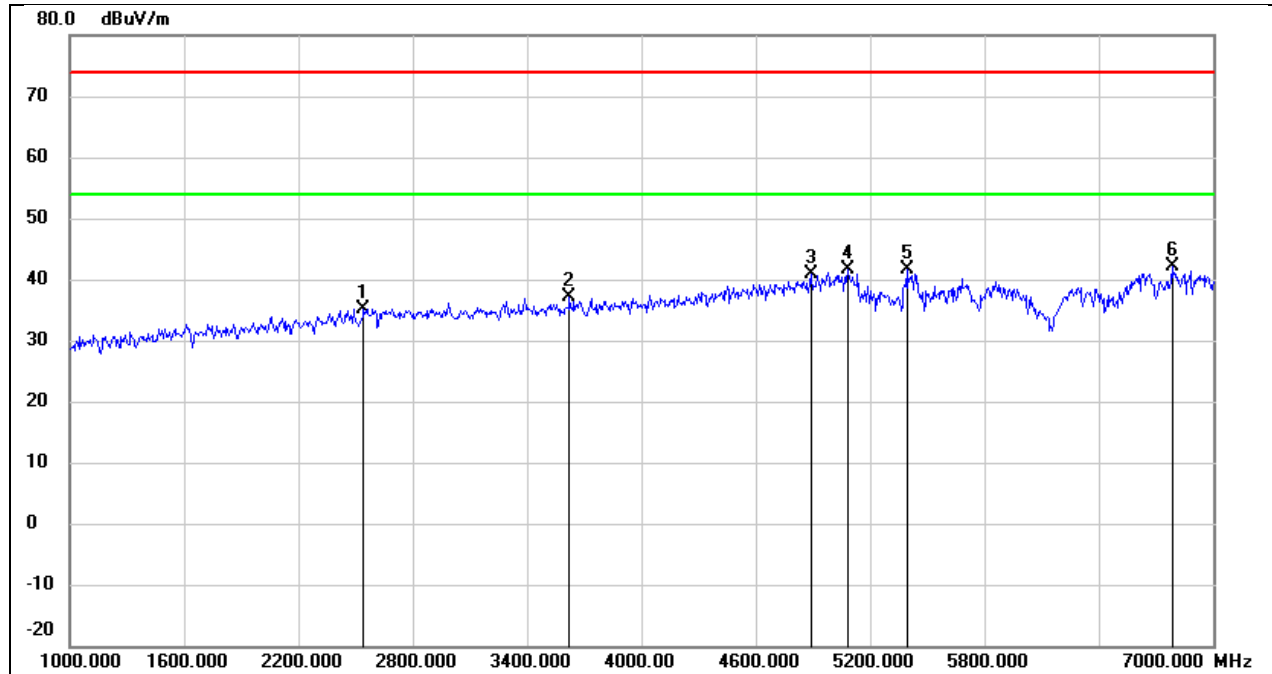
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2470.000	44.21	-8.65	35.56	74.00	-38.44	peak
2	2860.000	43.02	-7.40	35.62	74.00	-38.38	peak
3	4846.000	41.13	-0.77	40.36	74.00	-33.64	peak
4	5392.000	40.74	0.29	41.03	74.00	-32.97	peak
5	5704.000	38.37	1.00	39.37	74.00	-34.63	peak
6	6634.000	36.30	4.38	40.68	74.00	-33.32	peak

Test Mode:	802.11a 20	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



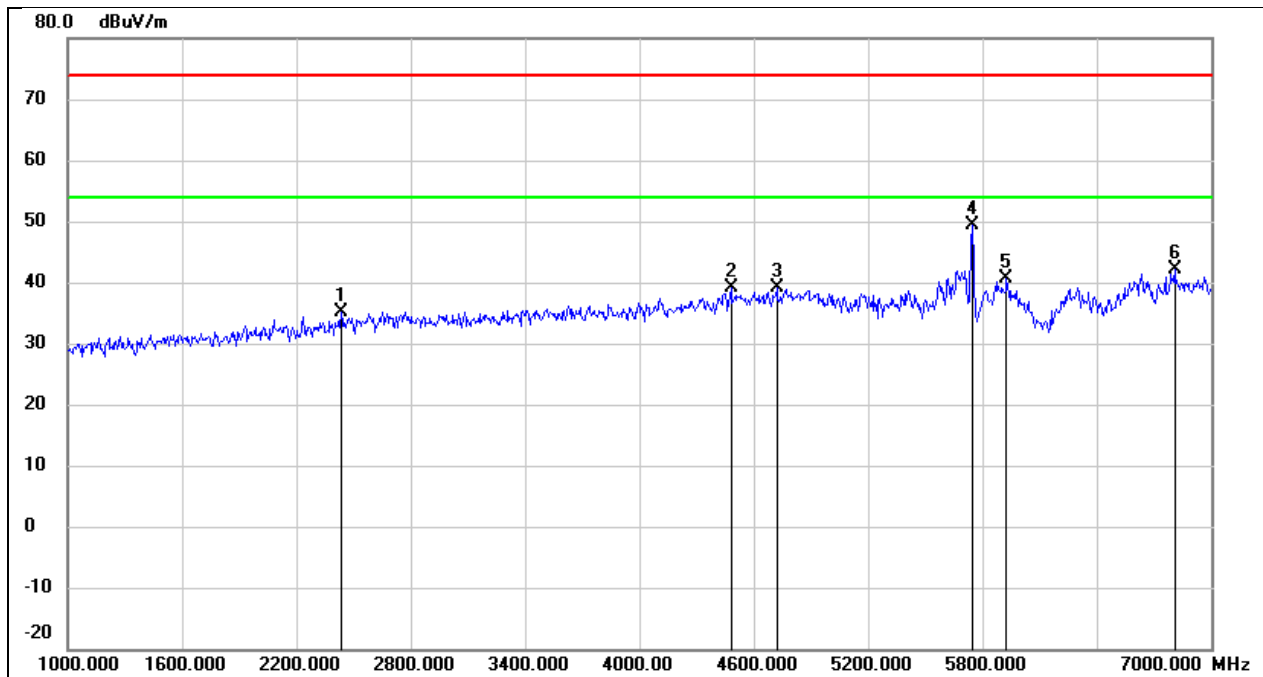
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2692.000	43.95	-7.91	36.04	74.00	-37.96	peak
2	3418.000	43.43	-6.03	37.40	74.00	-36.60	peak
3	4870.000	41.77	-0.66	41.11	74.00	-32.89	peak
4	5080.000	42.04	-0.06	41.98	74.00	-32.02	peak
5	5392.000	42.17	0.29	42.46	74.00	-31.54	peak
6	6604.000	37.30	4.24	41.54	74.00	-32.46	peak

Test Mode:	802.11a 20	Frequency(MHz):	5320
Polarity:	Vertical	Test Voltage:	7.2 Vdc



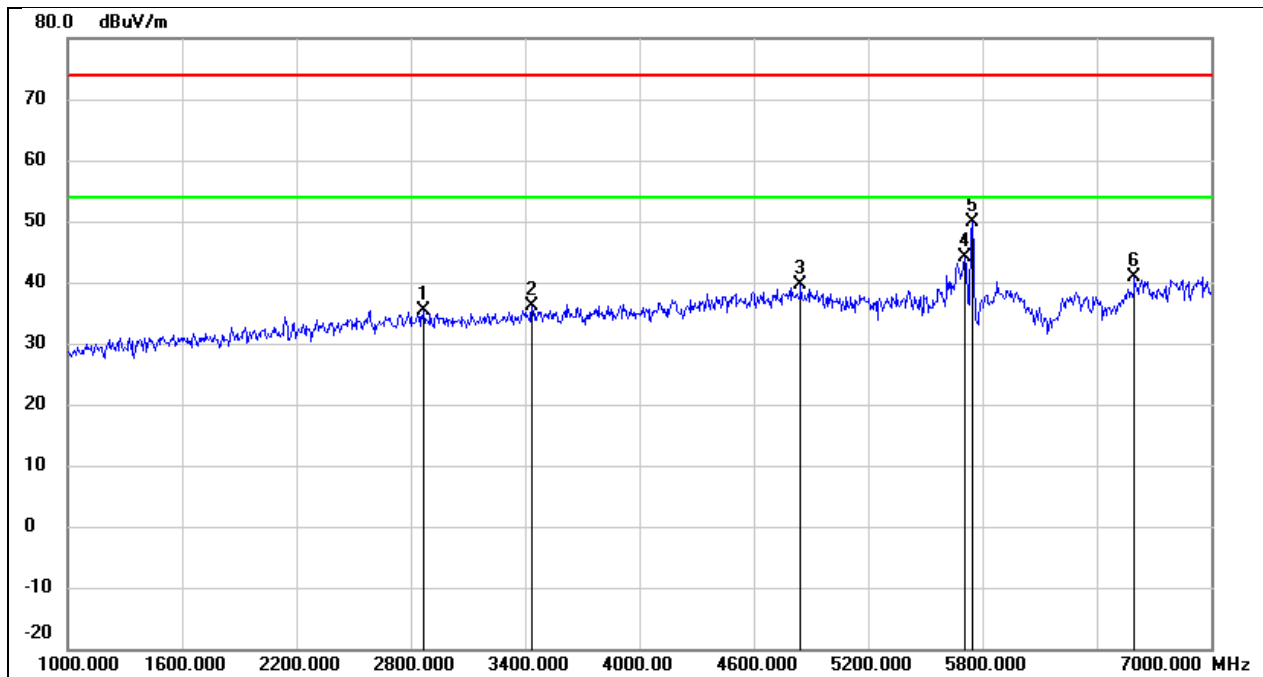
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2542.000	43.59	-8.36	35.23	74.00	-38.77	peak
2	3622.000	42.63	-5.52	37.11	74.00	-36.89	peak
3	4888.000	41.41	-0.60	40.81	74.00	-33.19	peak
4	5080.000	41.78	-0.06	41.72	74.00	-32.28	peak
5	5392.000	41.43	0.29	41.72	74.00	-32.28	peak
6	6784.000	36.95	5.13	42.08	74.00	-31.92	peak

Test Mode:	802.11a 20	Frequency(MHz):	5745
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



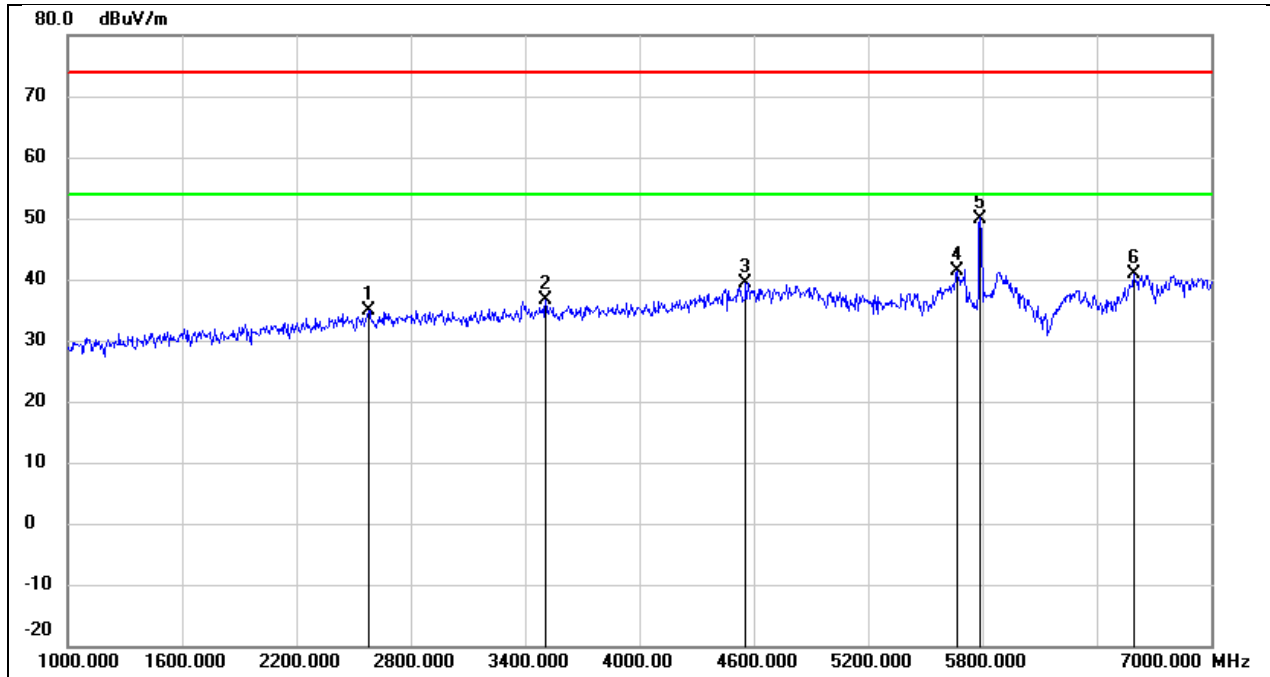
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2434.000	43.88	-8.83	35.05	74.00	-38.95	peak
2	4480.000	41.30	-2.23	39.07	74.00	-34.93	peak
3	4720.000	40.36	-1.27	39.09	74.00	-34.91	peak
4	5745.000	48.22	1.12	49.34	/	/	fundamental
5	5926.000	38.95	1.64	40.59	74.00	-33.41	peak
6	6808.000	37.00	5.24	42.24	74.00	-31.76	peak

Test Mode:	802.11a 20	Frequency(MHz):	5745
Polarity:	Vertical	Test Voltage:	7.2 Vdc



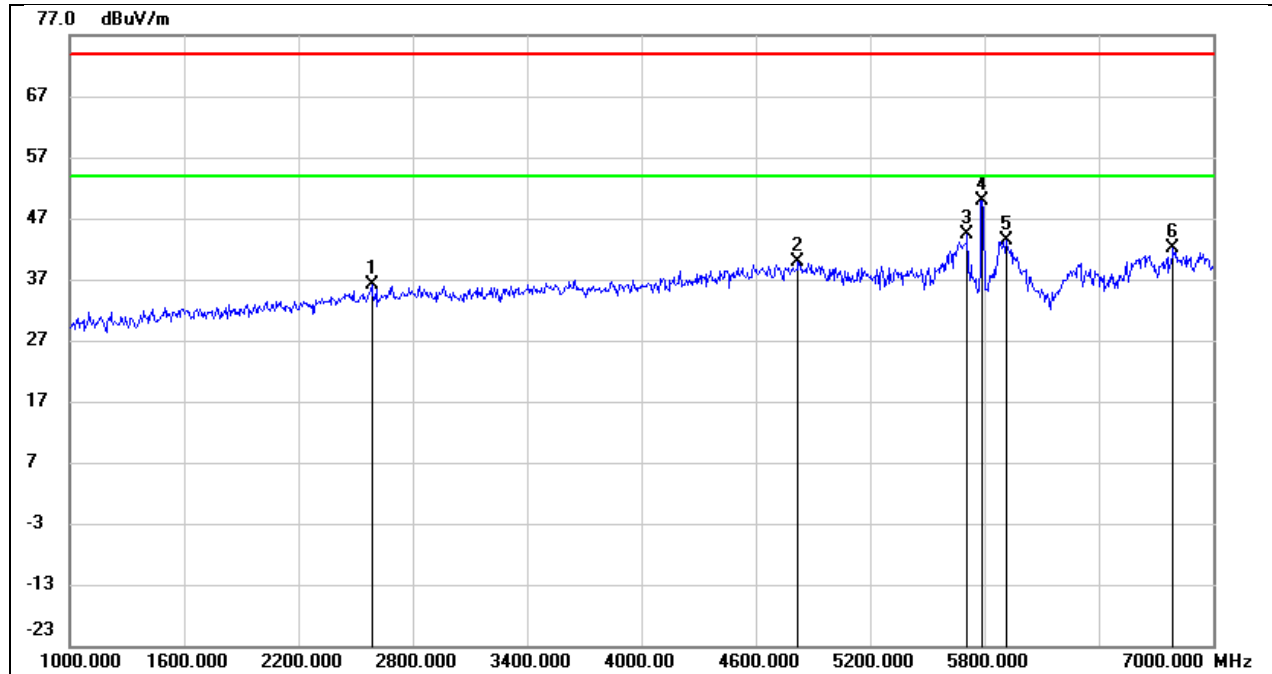
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2866.000	42.69	-7.38	35.31	74.00	-38.69	peak
2	3436.000	42.04	-5.99	36.05	74.00	-37.95	peak
3	4846.000	40.35	-0.77	39.58	74.00	-34.42	peak
4	5704.000	43.01	1.00	44.01	74.00	-29.99	peak
5	5745.000	48.80	1.12	49.92	/	/	fundamental
6	6598.000	36.69	4.21	40.90	74.00	-33.10	peak

Test Mode:	802.11a 20	Frequency(MHz):	5785
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



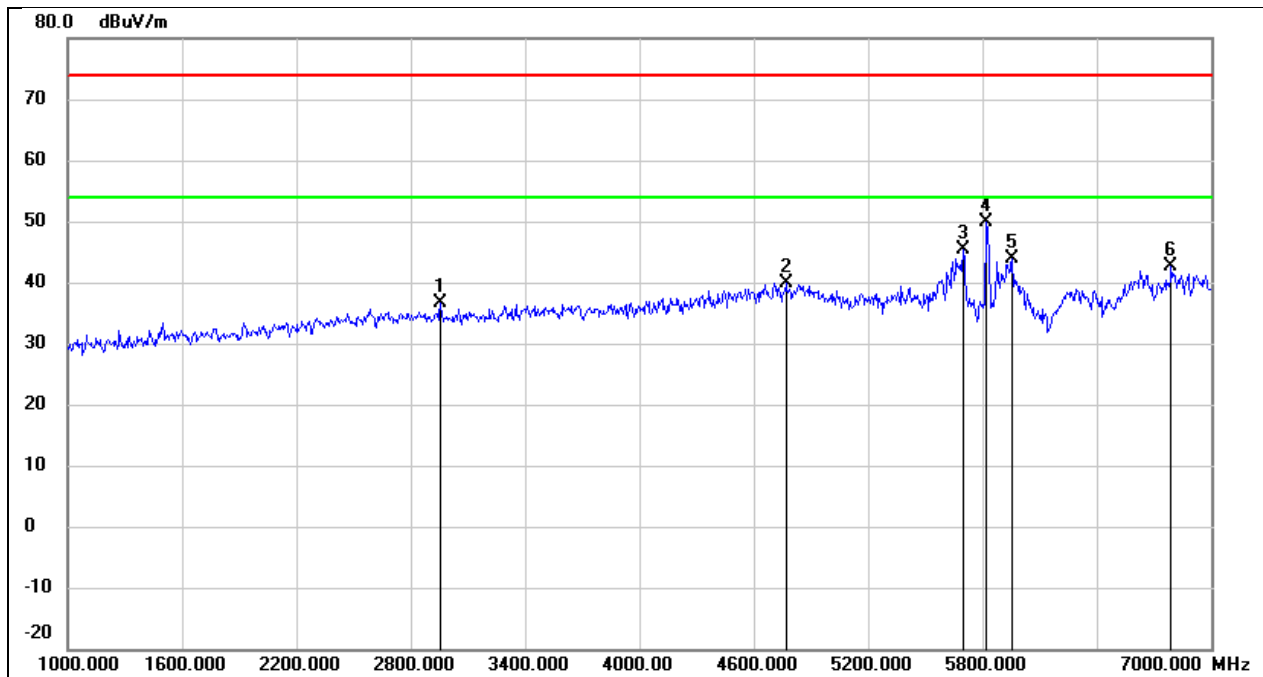
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2578.000	43.09	-8.26	34.83	74.00	-39.17	peak
2	3508.000	42.36	-5.82	36.54	74.00	-37.46	peak
3	4558.000	41.26	-1.91	39.35	74.00	-34.65	peak
4	5668.000	40.50	0.91	41.41	74.00	-32.59	peak
5	5785.000	48.75	1.25	50.00	/	/	fundamental
6	6592.000	36.68	4.19	40.87	74.00	-33.13	peak

Test Mode:	802.11a 20	Frequency(MHz):	5785
Polarity:	Vertical	Test Voltage:	7.2 Vdc



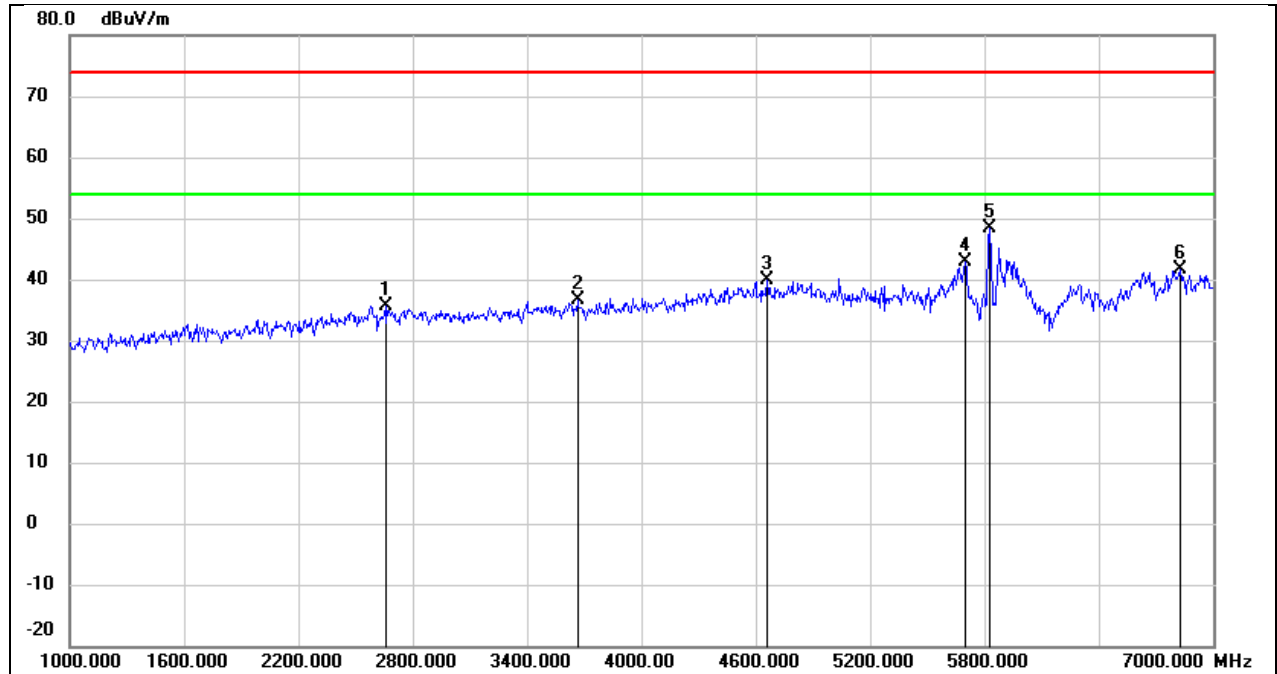
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2584.000	44.43	-8.24	36.19	74.00	-37.81	peak
2	4822.000	40.68	-0.85	39.83	74.00	-34.17	peak
3	5710.000	43.39	1.02	44.41	74.00	-29.59	peak
4	5785.000	48.74	1.25	49.99	/	/	fundamental
5	5914.000	41.80	1.60	43.40	74.00	-30.60	peak
6	6790.000	36.94	5.15	42.09	74.00	-31.91	peak

Test Mode:	802.11a 20	Frequency(MHz):	5825
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2956.000	43.75	-7.11	36.64	74.00	-37.36	peak
2	4768.000	41.02	-1.07	39.95	74.00	-34.05	peak
3	5698.000	44.49	0.99	45.48	74.00	-28.52	peak
4	5825.000	48.47	1.33	49.80	/	/	fundamental
5	5956.000	42.08	1.73	43.81	74.00	-30.19	peak
6	6790.000	37.43	5.15	42.58	74.00	-31.42	peak

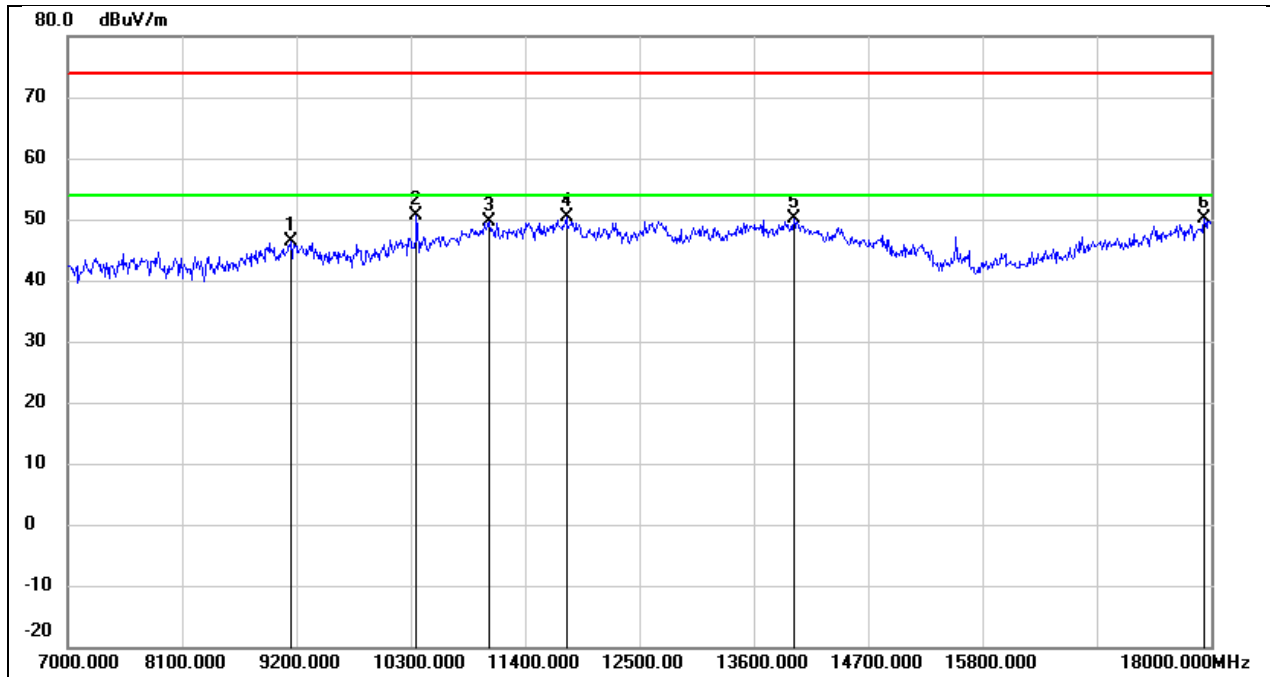
Test Mode:	802.11a 20	Frequency(MHz):	5825
Polarity:	Vertical	Test Voltage:	7.2 Vdc



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2656.000	43.72	-8.02	35.70	74.00	-38.30	peak
2	3664.000	42.04	-5.40	36.64	74.00	-37.36	peak
3	4660.000	41.41	-1.51	39.90	74.00	-34.10	peak
4	5698.000	41.99	0.99	42.98	74.00	-31.02	peak
5	5825.000	47.04	1.36	48.40	/	/	fundamental
6	6826.000	36.22	5.34	41.56	74.00	-32.44	peak

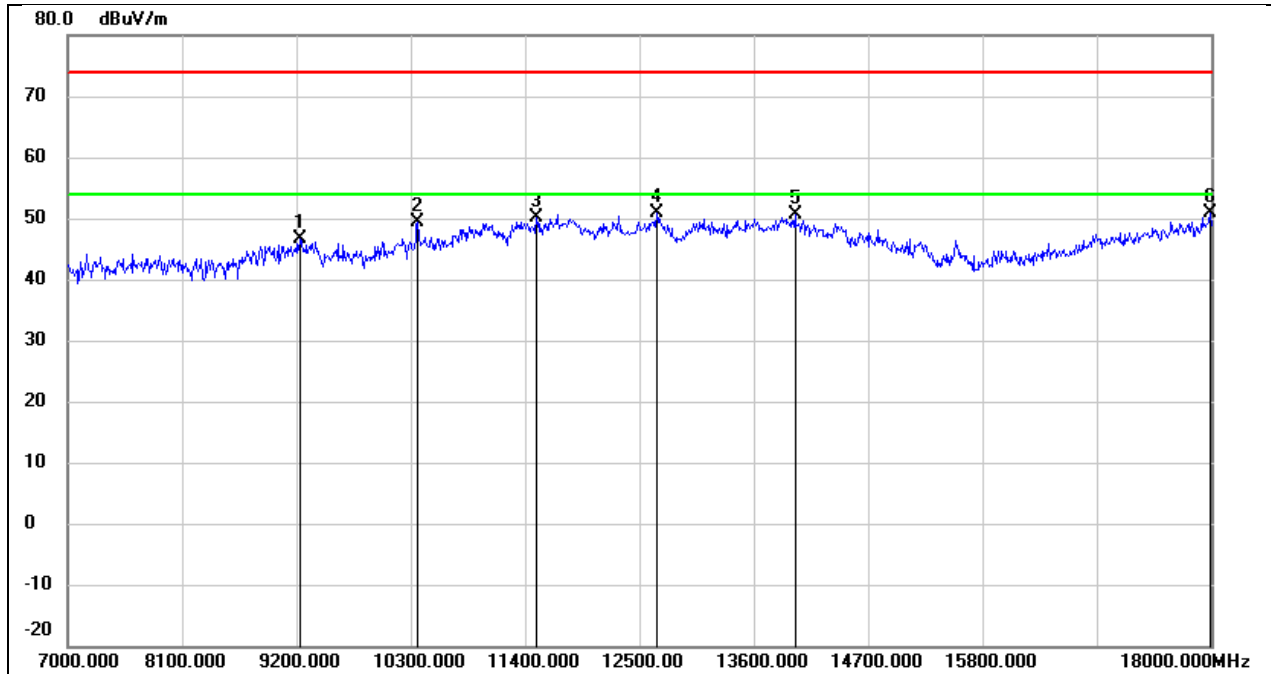
8.3. SPURIOUS EMISSIONS(7 GHZ~18 GHZ)

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



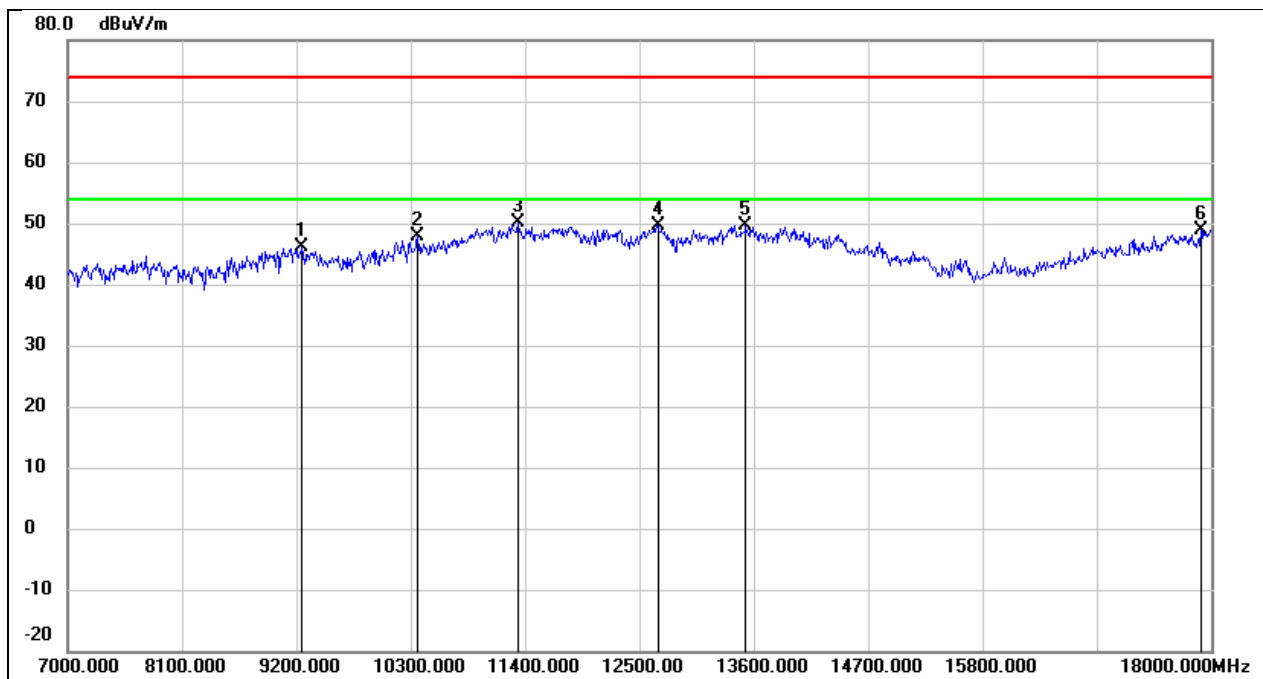
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9145.000	35.98	10.43	46.41	74.00	-27.59	peak
2	10355.000	38.15	12.52	50.67	74.00	-23.33	peak
3	11048.000	34.77	14.91	49.68	74.00	-24.32	peak
4	11796.000	33.10	17.32	50.42	74.00	-23.58	peak
5	13985.000	28.37	21.85	50.22	74.00	-23.78	peak
6	17934.000	24.38	25.67	50.05	74.00	-23.95	peak

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	7.2 Vdc



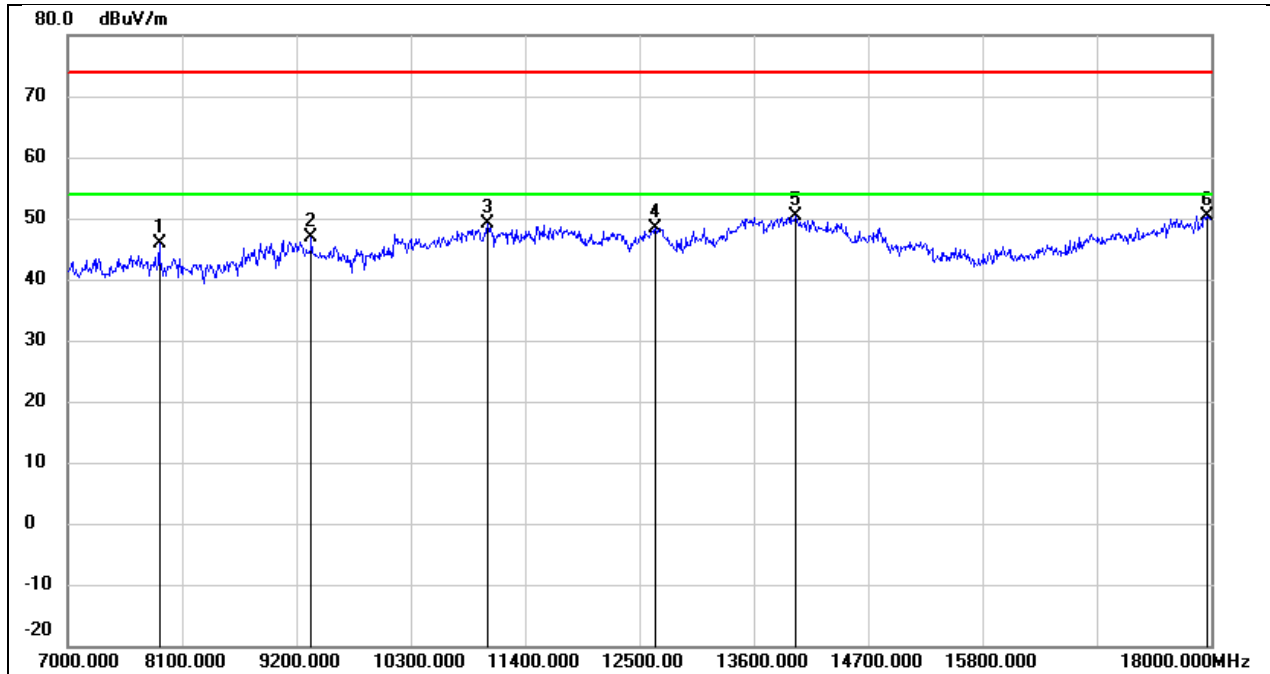
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9233.000	36.08	10.48	46.56	74.00	-27.44	peak
2	10366.000	36.75	12.54	49.29	74.00	-24.71	peak
3	11510.000	33.39	16.79	50.18	74.00	-23.82	peak
4	12665.000	32.82	18.04	50.86	74.00	-23.14	peak
5	13996.000	28.65	21.87	50.52	74.00	-23.48	peak
6	17989.000	24.92	26.04	50.96	74.00	-23.04	peak

Test Mode:	802.11a 20	Frequency(MHz):	5200
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



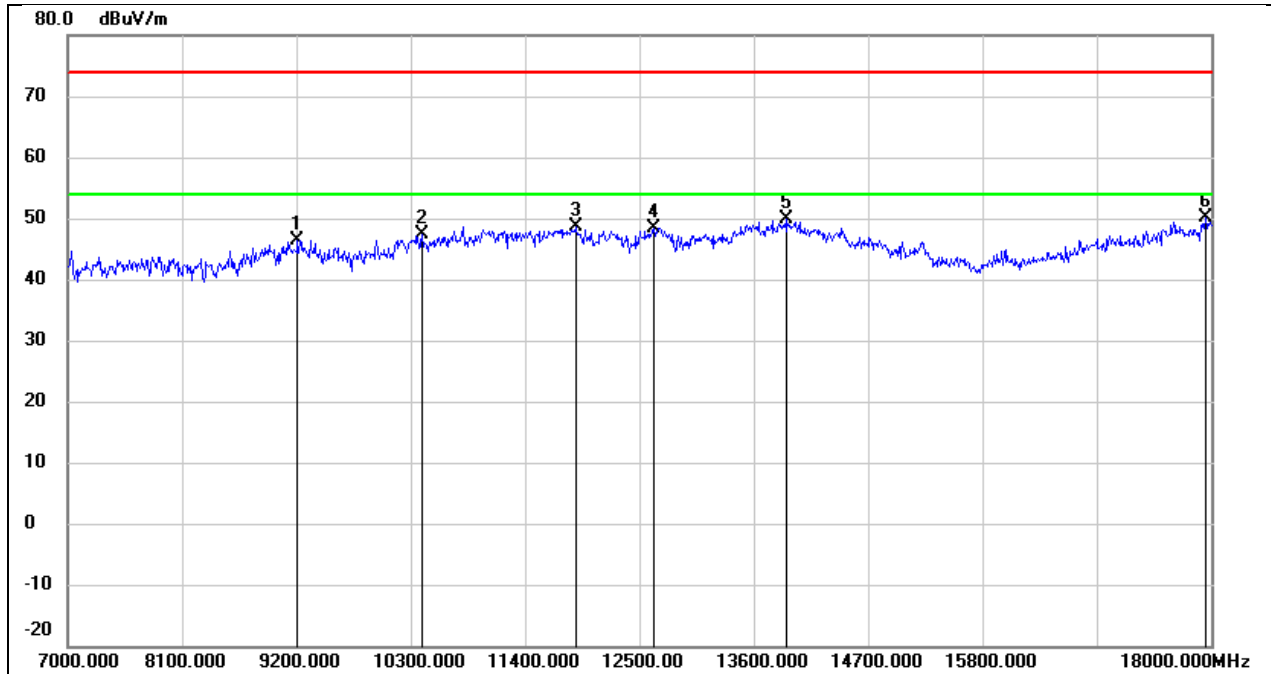
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9255.000	35.60	10.51	46.11	74.00	-27.89	peak
2	10366.000	35.31	12.54	47.85	74.00	-26.15	peak
3	11334.000	34.11	16.09	50.20	74.00	-23.80	peak
4	12676.000	31.63	18.05	49.68	74.00	-24.32	peak
5	13523.000	28.94	20.70	49.64	74.00	-24.36	peak
6	17901.000	23.52	25.45	48.97	74.00	-25.03	peak

Test Mode:	802.11a 20	Frequency(MHz):	5200
Polarity:	Vertical	Test Voltage:	7.2 Vdc



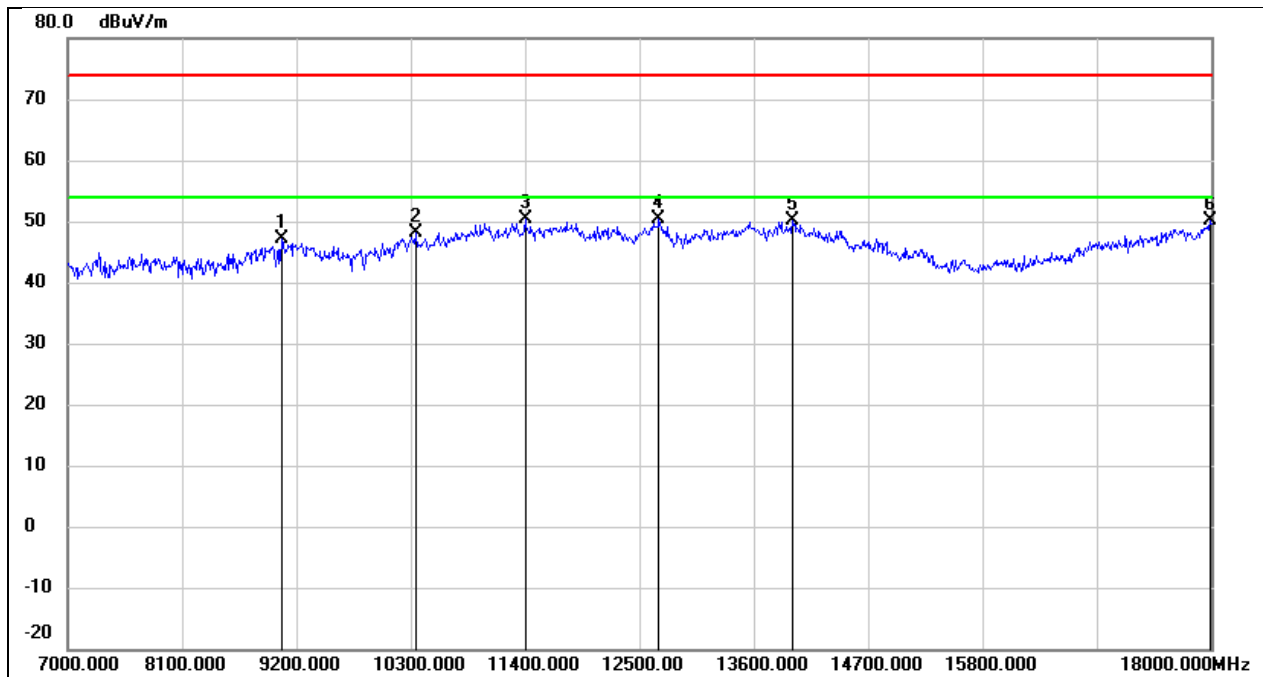
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7880.000	39.24	6.54	45.78	74.00	-28.22	peak
2	9343.000	36.28	10.55	46.83	74.00	-27.17	peak
3	11037.000	34.37	14.87	49.24	74.00	-24.76	peak
4	12654.000	30.47	18.01	48.48	74.00	-25.52	peak
5	13996.000	28.46	21.87	50.33	74.00	-23.67	peak
6	17956.000	24.55	25.82	50.37	74.00	-23.63	peak

Test Mode:	802.11a 20	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



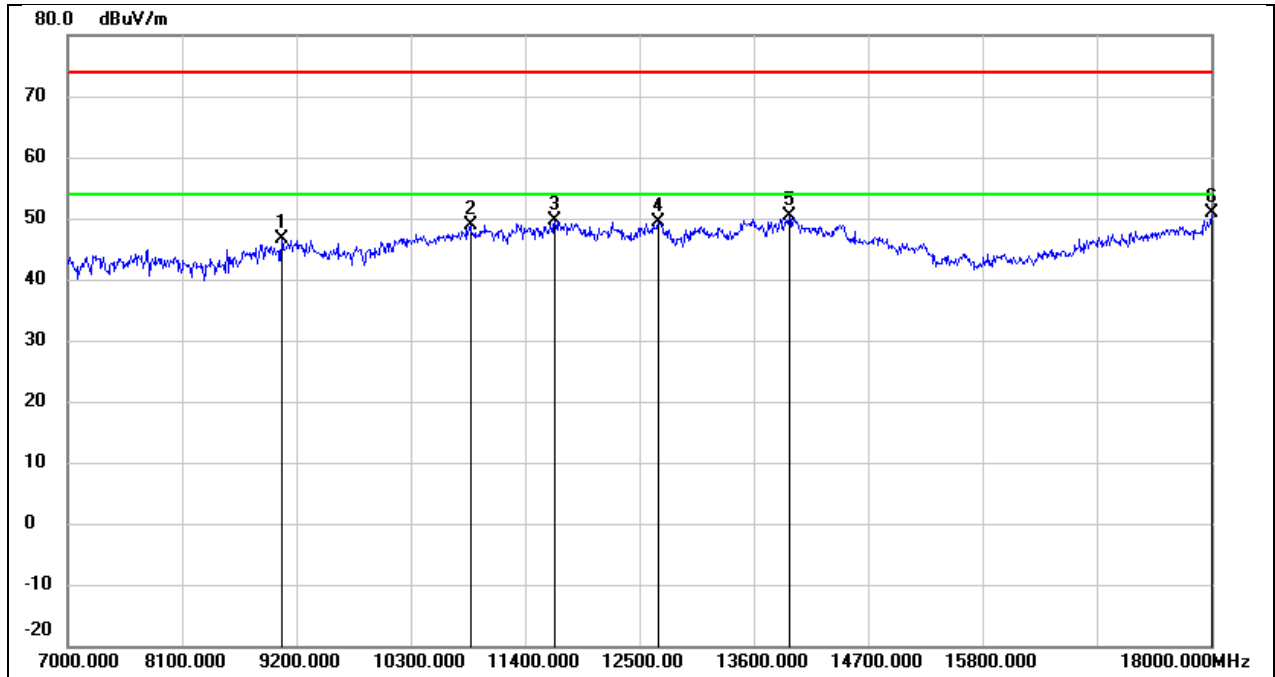
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9211.000	36.01	10.47	46.48	74.00	-27.52	peak
2	10410.000	34.77	12.62	47.39	74.00	-26.61	peak
3	11884.000	31.10	17.48	48.58	74.00	-25.42	peak
4	12632.000	30.48	17.99	48.47	74.00	-25.53	peak
5	13919.000	28.21	21.68	49.89	74.00	-24.11	peak
6	17945.000	24.29	25.75	50.04	74.00	-23.96	peak

Test Mode:	802.11a 20	Frequency(MHz):	5240
Polarity:	Vertical	Test Voltage:	7.2 Vdc



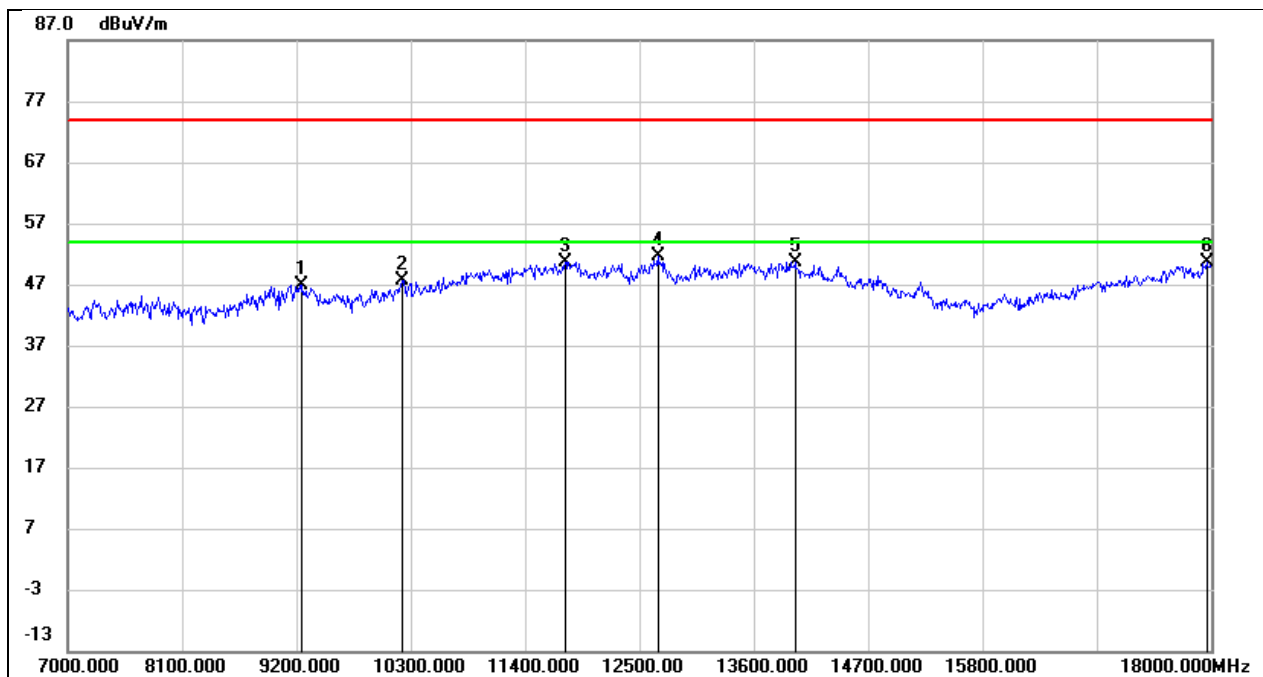
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9057.000	36.77	10.38	47.15	74.00	-26.85	peak
2	10344.000	35.52	12.49	48.01	74.00	-25.99	peak
3	11400.000	34.04	16.36	50.40	74.00	-23.60	peak
4	12687.000	32.35	18.05	50.40	74.00	-23.60	peak
5	13974.000	28.40	21.82	50.22	74.00	-23.78	peak
6	17989.000	23.98	26.04	50.02	74.00	-23.98	peak

Test Mode:	802.11a 20	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



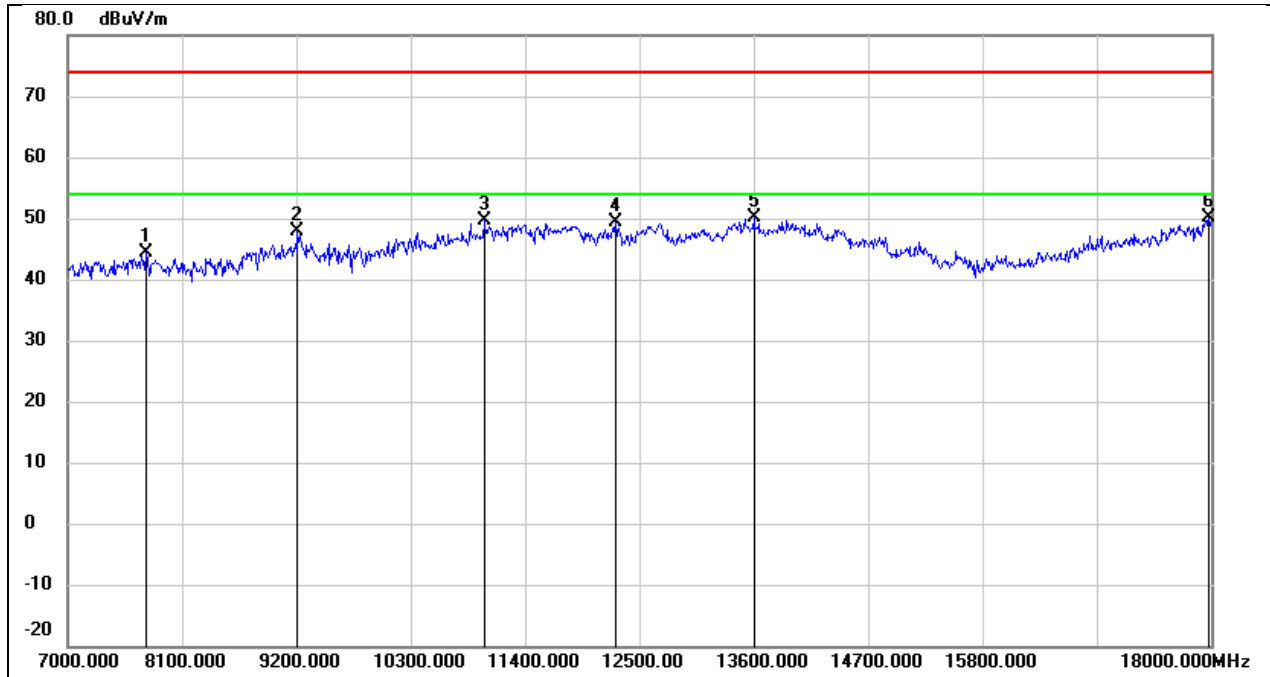
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9057.000	36.19	10.38	46.57	74.00	-27.43	peak
2	10872.000	34.58	14.23	48.81	74.00	-25.19	peak
3	11686.000	32.59	17.12	49.71	74.00	-24.29	peak
4	12676.000	31.35	18.05	49.40	74.00	-24.60	peak
5	13941.000	28.69	21.73	50.42	74.00	-23.58	peak
6	18000.000	24.64	26.12	50.76	74.00	-23.24	peak

Test Mode:	802.11a 20	Frequency(MHz):	5260
Polarity:	Vertical	Test Voltage:	7.2 Vdc



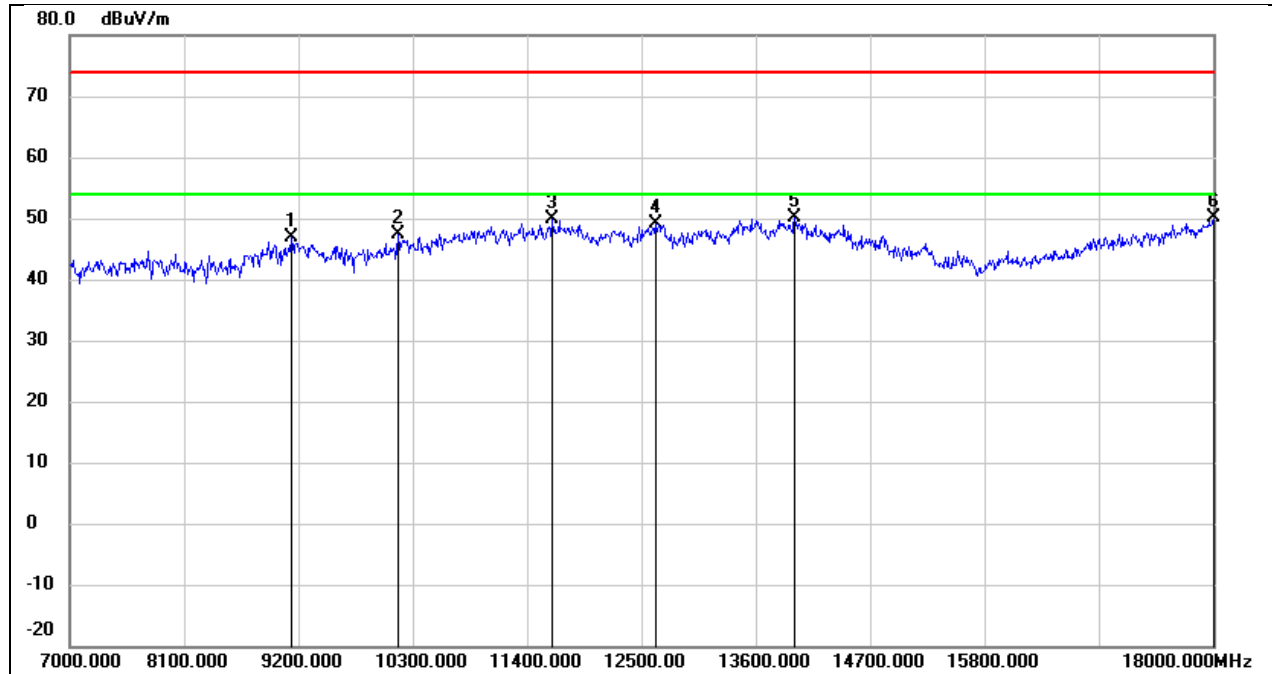
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9255.000	36.38	10.51	46.89	74.00	-27.11	peak
2	10223.000	35.51	12.24	47.75	74.00	-26.25	peak
3	11785.000	33.39	17.30	50.69	74.00	-23.31	peak
4	12676.000	33.49	18.05	51.54	74.00	-22.46	peak
5	13996.000	28.79	21.87	50.66	74.00	-23.34	peak
6	17956.000	24.83	25.82	50.65	74.00	-23.35	peak

Test Mode:	802.11a 20	Frequency(MHz):	5280
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



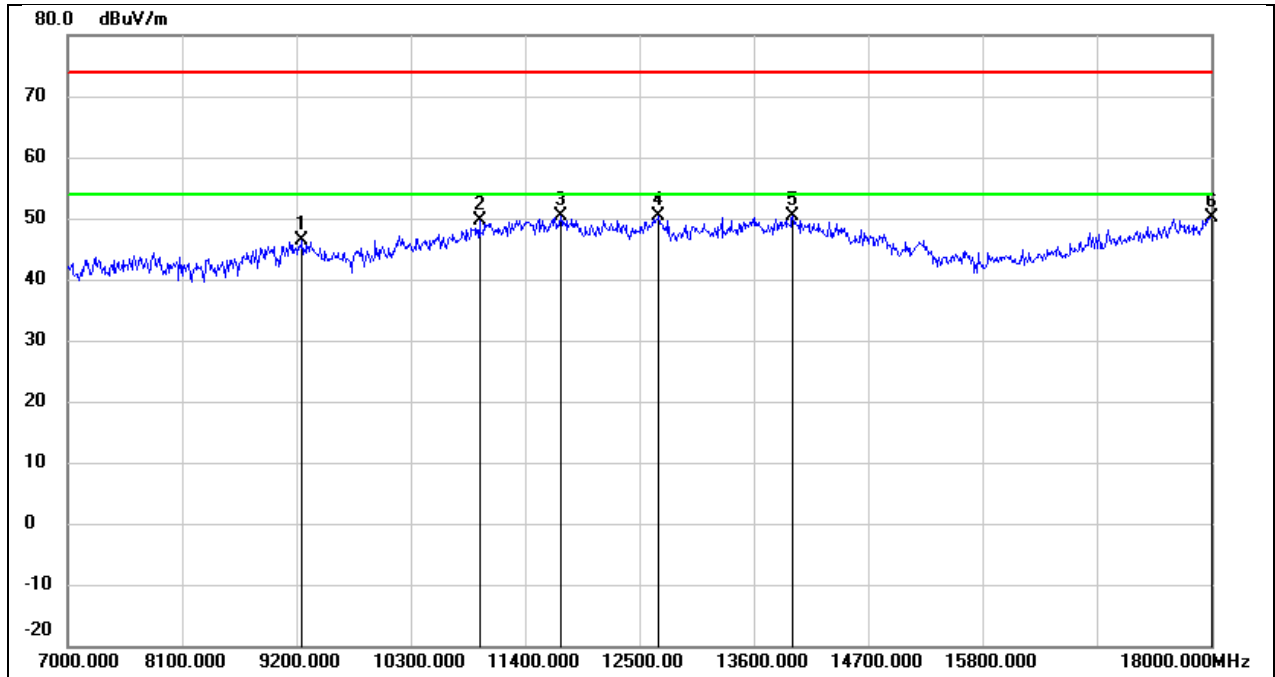
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7748.000	37.74	6.66	44.40	74.00	-29.60	peak
2	9211.000	37.35	10.47	47.82	74.00	-26.18	peak
3	11004.000	34.81	14.74	49.55	74.00	-24.45	peak
4	12269.000	31.49	17.77	49.26	74.00	-24.74	peak
5	13600.000	29.14	20.89	50.03	74.00	-23.97	peak
6	17978.000	24.12	25.97	50.09	74.00	-23.91	peak

Test Mode:	802.11a 20	Frequency(MHz):	5280
Polarity:	Vertical	Test Voltage:	7.2 Vdc



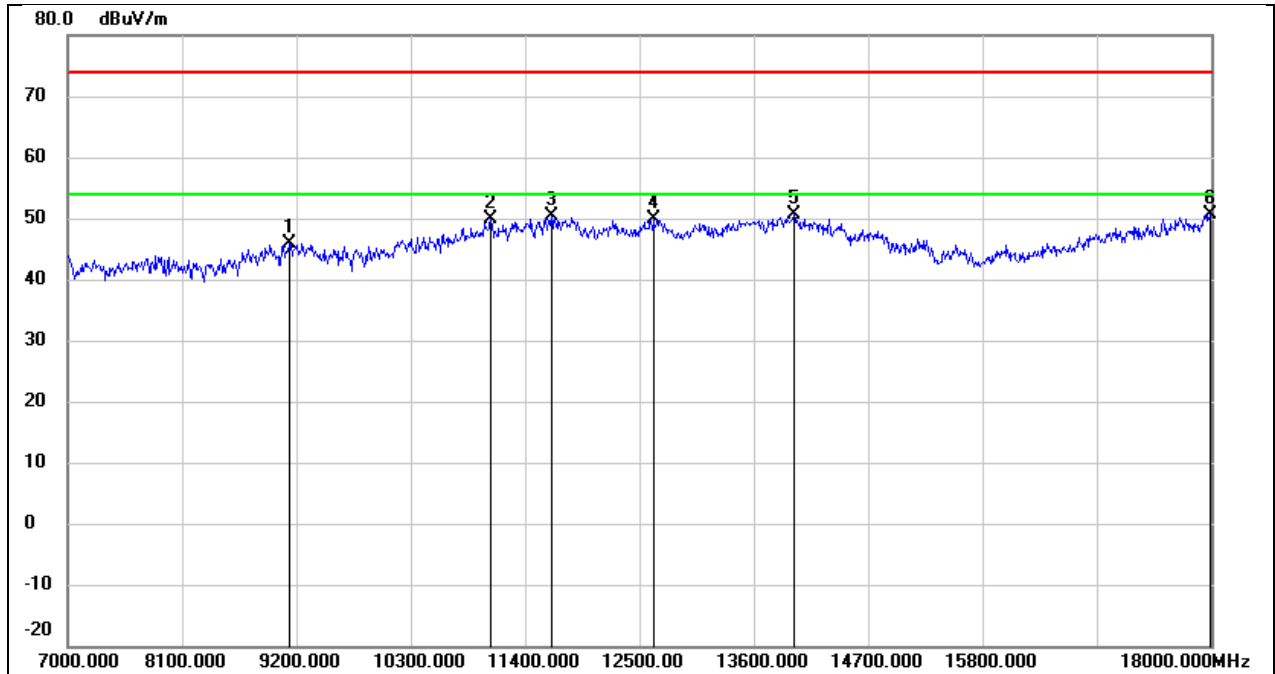
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9134.000	36.51	10.41	46.92	74.00	-27.08	peak
2	10157.000	35.31	12.10	47.41	74.00	-26.59	peak
3	11642.000	32.90	17.03	49.93	74.00	-24.07	peak
4	12632.000	31.23	17.99	49.22	74.00	-24.78	peak
5	13974.000	28.27	21.82	50.09	74.00	-23.91	peak
6	18000.000	24.04	26.12	50.16	74.00	-23.84	peak

Test Mode:	802.11a 20	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



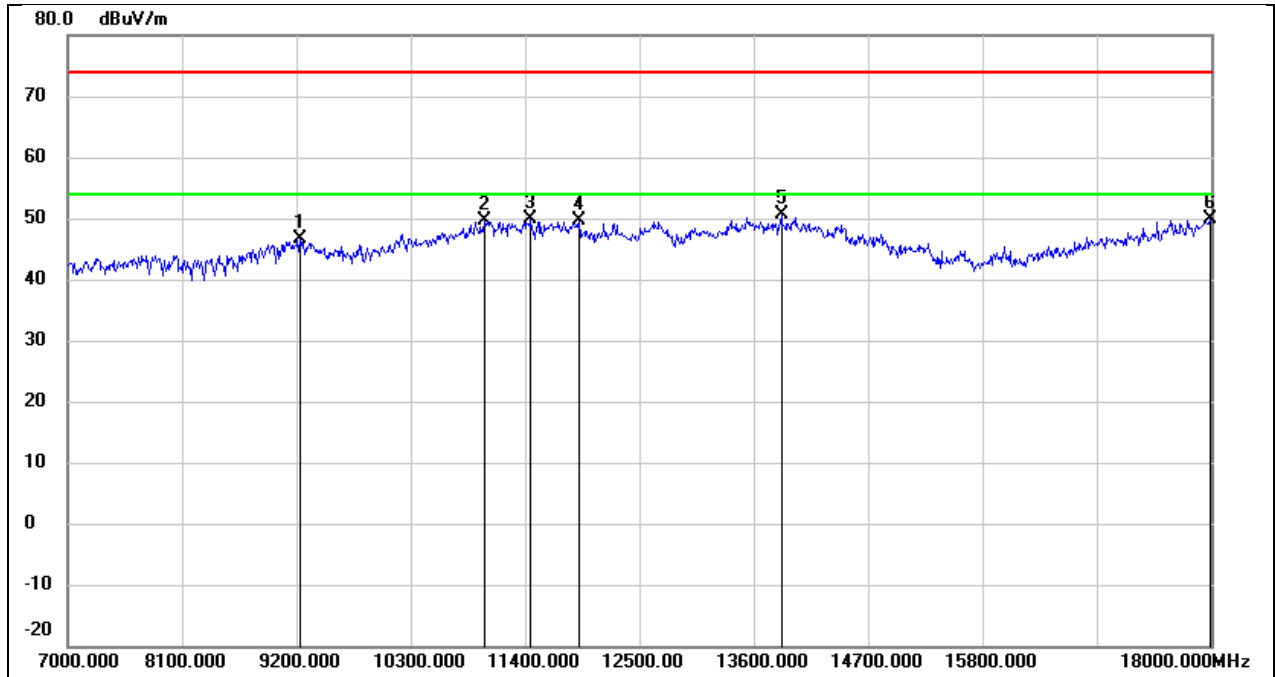
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9255.000	35.97	10.51	46.48	74.00	-27.52	peak
2	10960.000	35.04	14.57	49.61	74.00	-24.39	peak
3	11741.000	33.23	17.22	50.45	74.00	-23.55	peak
4	12687.000	32.40	18.05	50.45	74.00	-23.55	peak
5	13974.000	28.47	21.82	50.29	74.00	-23.71	peak
6	18000.000	23.90	26.12	50.02	74.00	-23.98	peak

Test Mode:	802.11a 20	Frequency(MHz):	5320
Polarity:	Vertical	Test Voltage:	7.2 Vdc



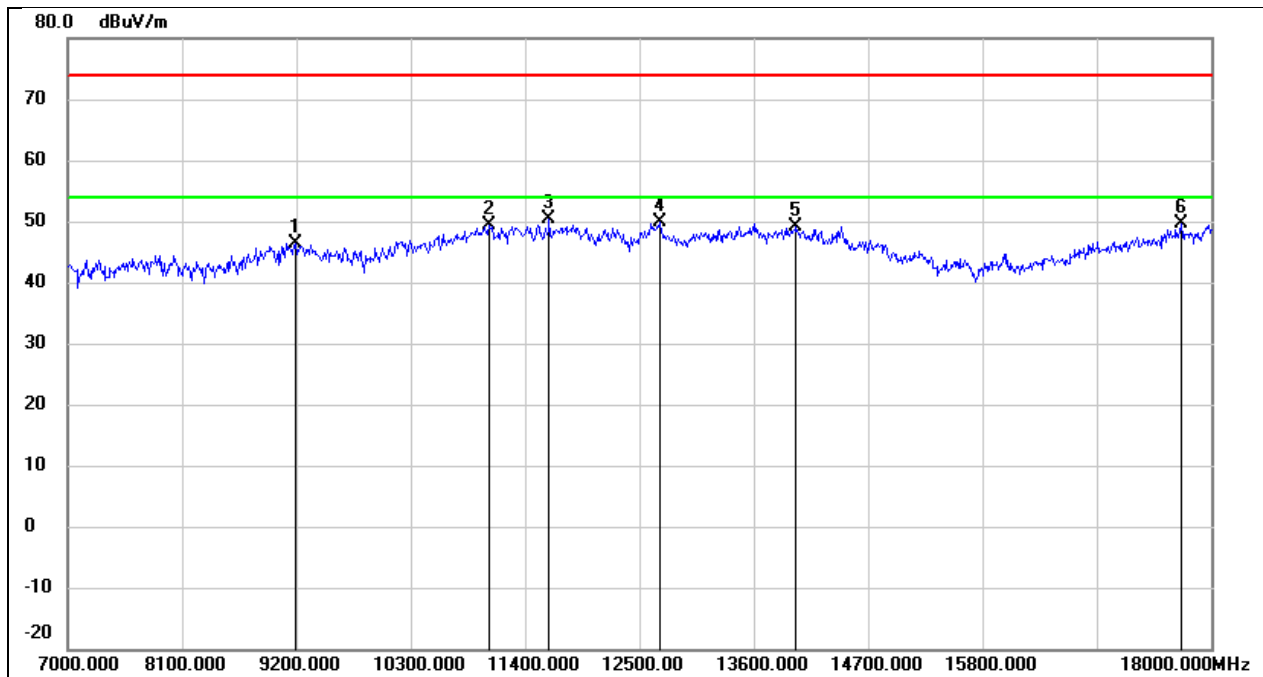
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9134.000	35.44	10.41	45.85	74.00	-28.15	peak
2	11070.000	34.82	15.01	49.83	74.00	-24.17	peak
3	11653.000	33.27	17.05	50.32	74.00	-23.68	peak
4	12632.000	31.97	17.99	49.96	74.00	-24.04	peak
5	13985.000	28.87	21.85	50.72	74.00	-23.28	peak
6	17989.000	24.58	26.04	50.62	74.00	-23.38	peak

Test Mode:	802.11a 20	Frequency(MHz):	5745
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



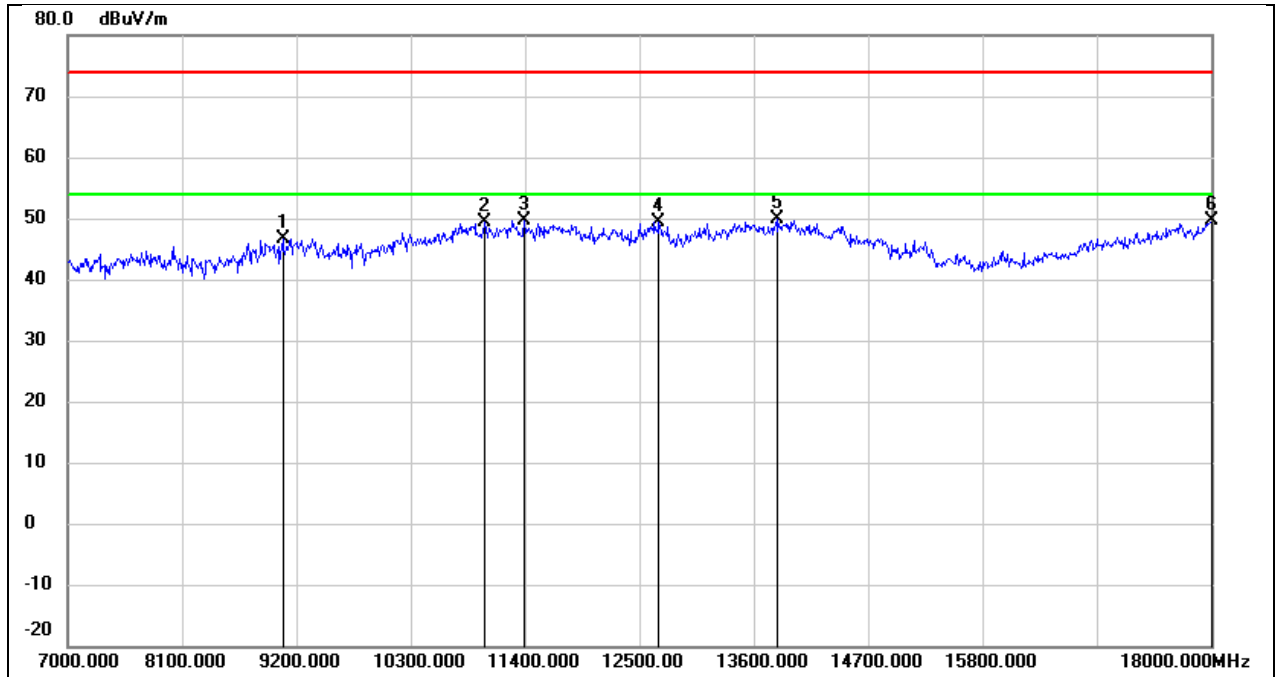
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9233.000	36.21	10.48	46.69	74.00	-27.31	peak
2	11015.000	34.83	14.79	49.62	74.00	-24.38	peak
3	11455.000	33.19	16.58	49.77	74.00	-24.23	peak
4	11917.000	31.98	17.54	49.52	74.00	-24.48	peak
5	13864.000	29.09	21.53	50.62	74.00	-23.38	peak
6	17989.000	23.87	26.04	49.91	74.00	-24.09	peak

Test Mode:	802.11a 20	Frequency(MHz):	5745
Polarity:	Vertical	Test Voltage:	7.2 Vdc



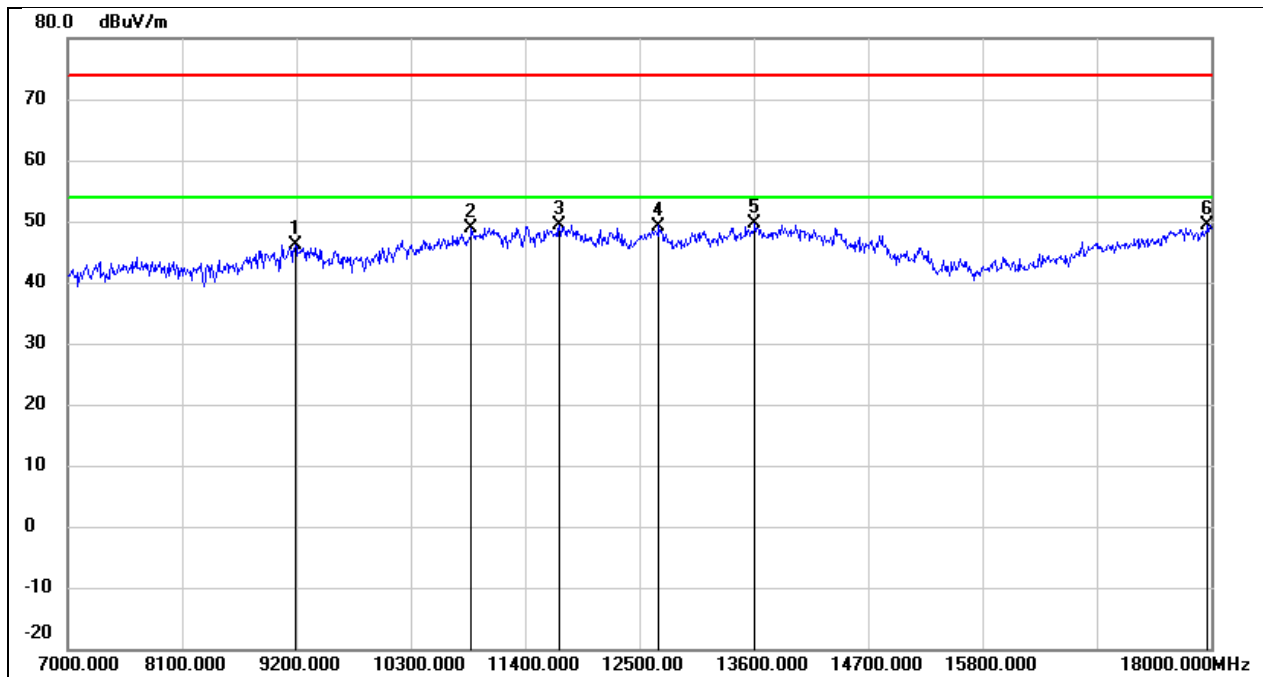
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9189.000	36.03	10.46	46.49	74.00	-27.51	peak
2	11048.000	34.42	14.91	49.33	74.00	-24.67	peak
3	11631.000	33.26	17.01	50.27	74.00	-23.73	peak
4	12698.000	31.84	18.08	49.92	74.00	-24.08	peak
5	14007.000	27.33	21.85	49.18	74.00	-24.82	peak
6	17714.000	25.54	24.16	49.70	74.00	-24.30	peak

Test Mode:	802.11a 20	Frequency(MHz):	5785
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



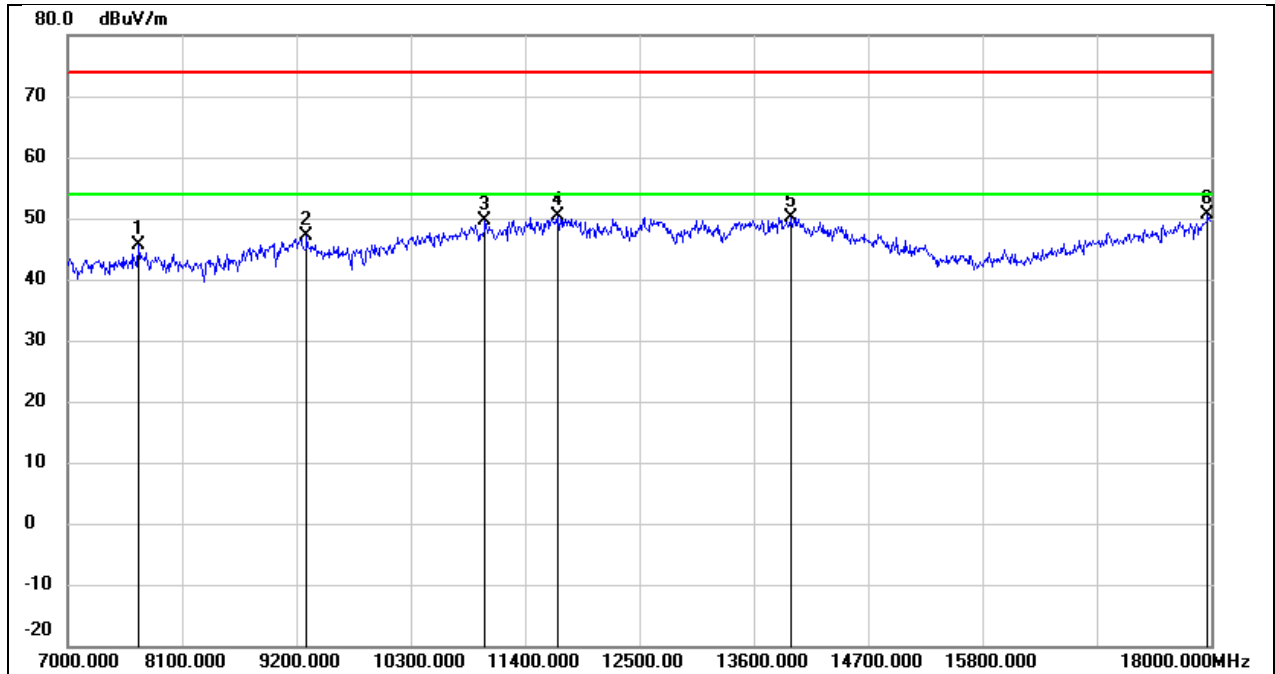
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9068.000	36.32	10.39	46.71	74.00	-27.29	peak
2	11015.000	34.70	14.79	49.49	74.00	-24.51	peak
3	11389.000	33.34	16.31	49.65	74.00	-24.35	peak
4	12687.000	31.39	18.05	49.44	74.00	-24.56	peak
5	13820.000	28.42	21.43	49.85	74.00	-24.15	peak
6	18000.000	23.48	26.12	49.60	74.00	-24.40	peak

Test Mode:	802.11a 20	Frequency(MHz):	5785
Polarity:	Vertical	Test Voltage:	7.2 Vdc



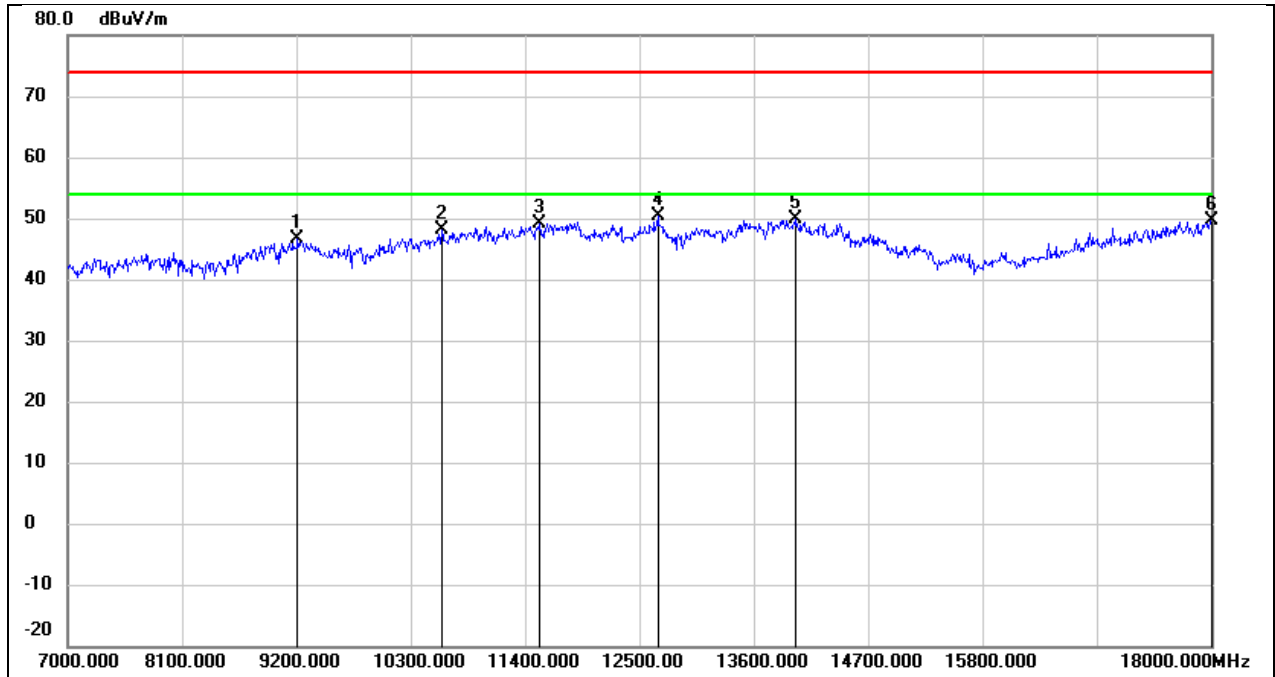
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9189.000	35.67	10.46	46.13	74.00	-27.87	peak
2	10883.000	34.68	14.27	48.95	74.00	-25.05	peak
3	11730.000	32.24	17.19	49.43	74.00	-24.57	peak
4	12687.000	31.20	18.05	49.25	74.00	-24.75	peak
5	13611.000	28.68	20.92	49.60	74.00	-24.40	peak
6	17967.000	23.58	25.89	49.47	74.00	-24.53	peak

Test Mode:	802.11a 20	Frequency(MHz):	5825
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



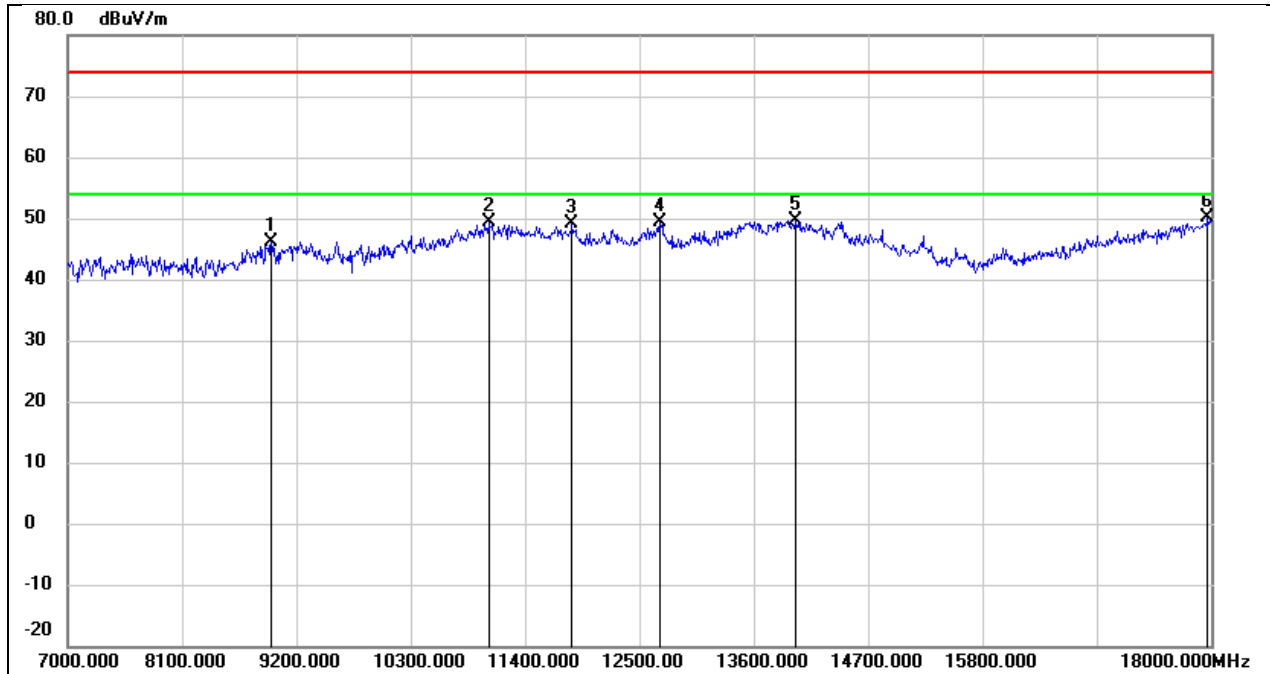
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7682.000	38.99	6.71	45.70	74.00	-28.30	peak
2	9299.000	36.70	10.53	47.23	74.00	-26.77	peak
3	11015.000	34.72	14.79	49.51	74.00	-24.49	peak
4	11719.000	33.27	17.18	50.45	74.00	-23.55	peak
5	13952.000	28.45	21.76	50.21	74.00	-23.79	peak
6	17967.000	24.66	25.89	50.55	74.00	-23.45	peak

Test Mode:	802.11a 20	Frequency(MHz):	5825
Polarity:	Vertical	Test Voltage:	7.2 Vdc



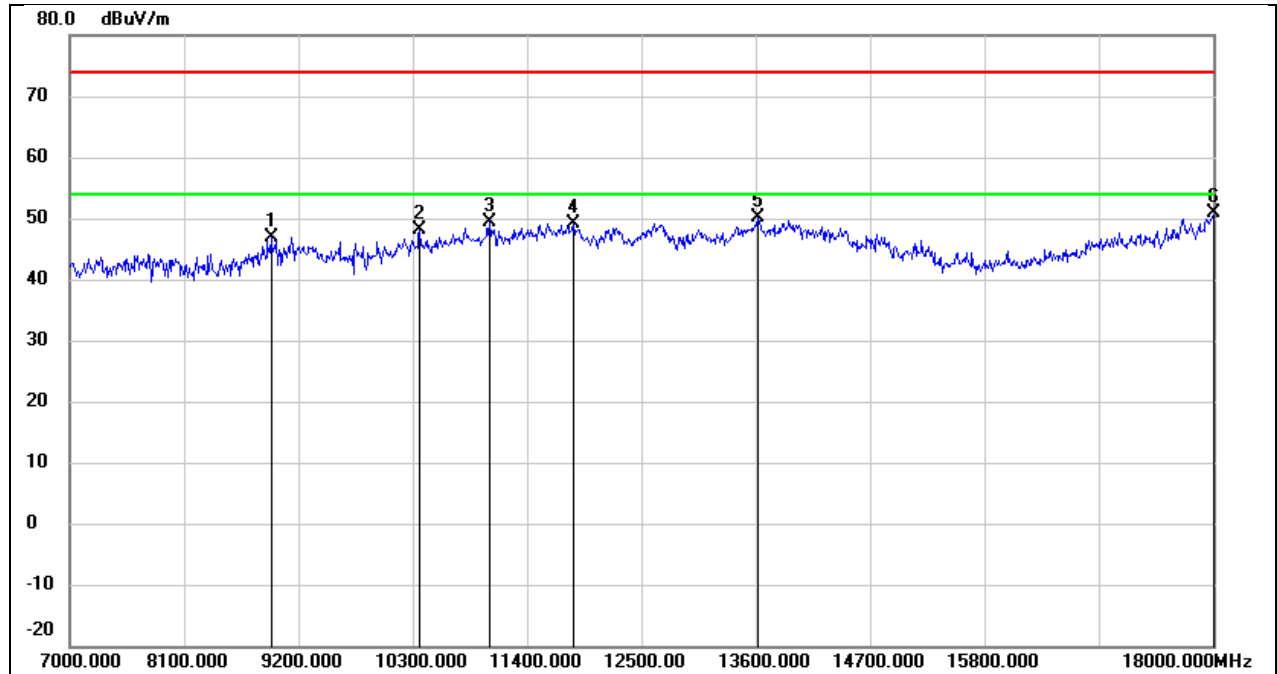
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9211.000	36.24	10.47	46.71	74.00	-27.29	peak
2	10597.000	34.87	13.19	48.06	74.00	-25.94	peak
3	11543.000	32.35	16.84	49.19	74.00	-24.81	peak
4	12676.000	32.37	18.05	50.42	74.00	-23.58	peak
5	14007.000	28.11	21.85	49.96	74.00	-24.04	peak
6	18000.000	23.48	26.12	49.60	74.00	-24.40	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



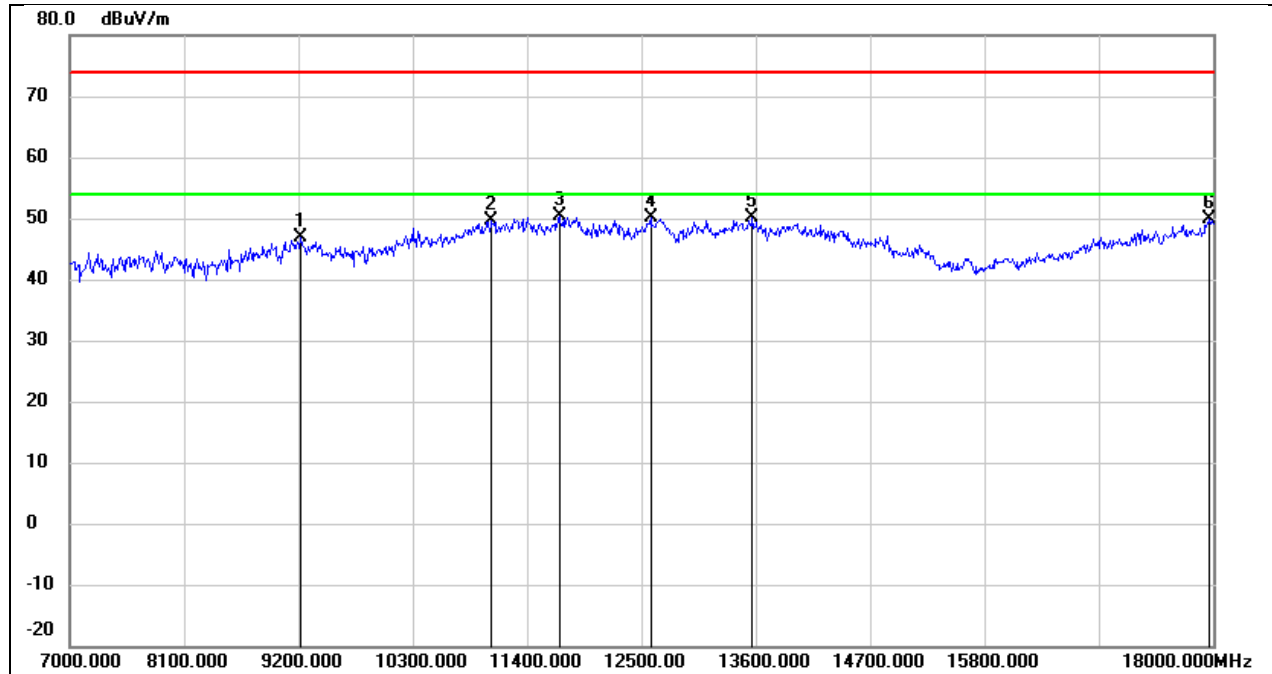
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8958.000	36.01	10.05	46.06	74.00	-27.94	peak
2	11048.000	34.35	14.91	49.26	74.00	-24.74	peak
3	11851.000	31.61	17.43	49.04	74.00	-24.96	peak
4	12698.000	31.21	18.08	49.29	74.00	-24.71	peak
5	13996.000	27.80	21.87	49.67	74.00	-24.33	peak
6	17967.000	24.35	25.89	50.24	74.00	-23.76	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	7.2 Vdc



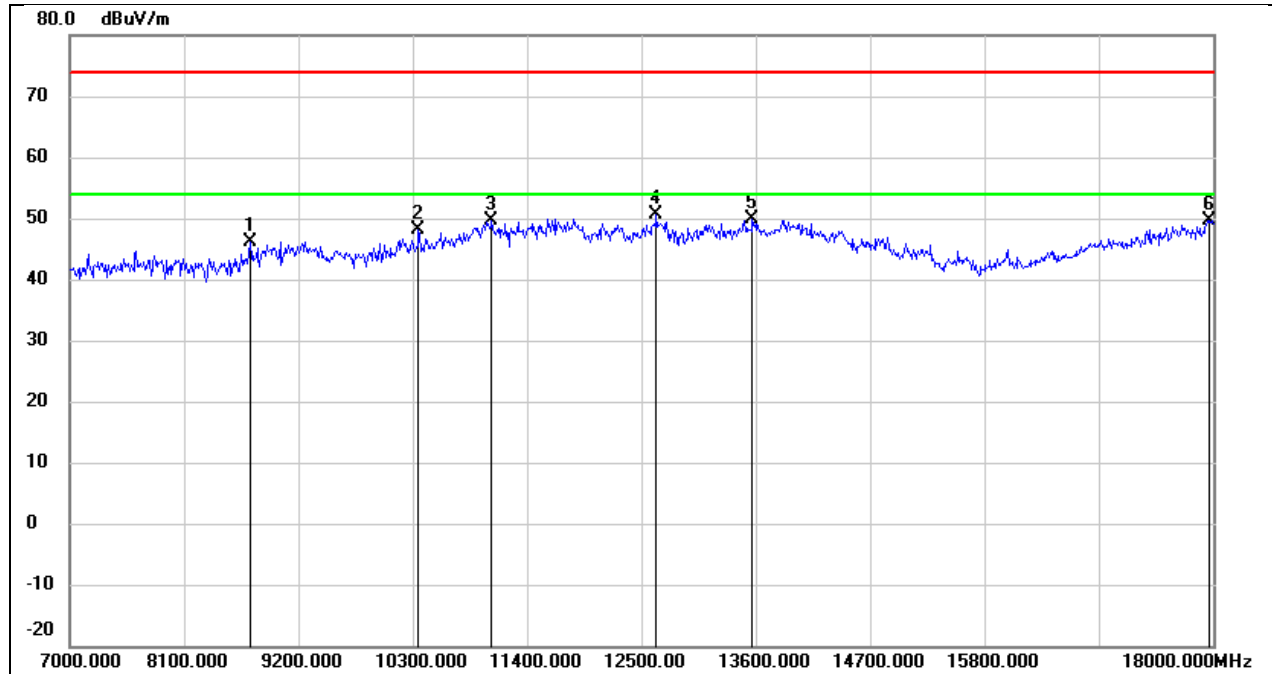
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8936.000	36.93	9.90	46.83	74.00	-27.17	peak
2	10366.000	35.59	12.54	48.13	74.00	-25.87	peak
3	11037.000	34.57	14.87	49.44	74.00	-24.56	peak
4	11840.000	31.73	17.40	49.13	74.00	-24.87	peak
5	13622.000	29.10	20.95	50.05	74.00	-23.95	peak
6	18000.000	24.70	26.12	50.82	74.00	-23.18	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5200
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



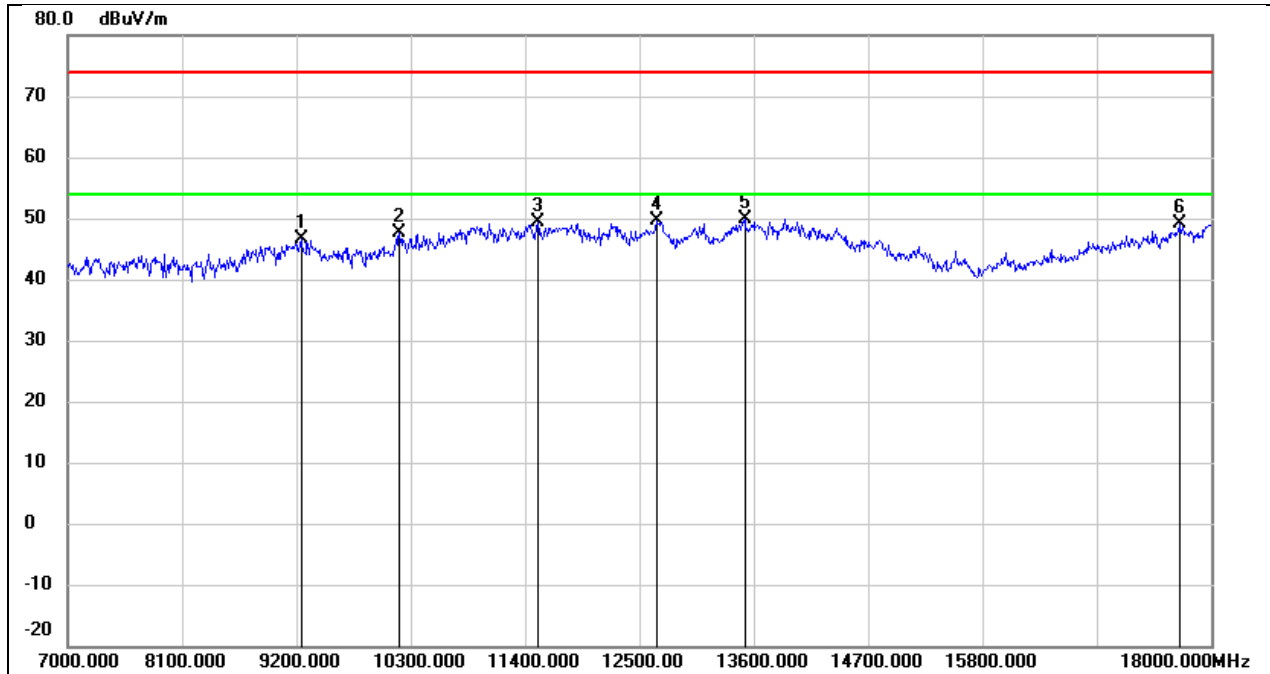
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9222.000	36.38	10.48	46.86	74.00	-27.14	peak
2	11059.000	34.59	14.96	49.55	74.00	-24.45	peak
3	11708.000	33.15	17.16	50.31	74.00	-23.69	peak
4	12588.000	32.09	17.94	50.03	74.00	-23.97	peak
5	13567.000	29.25	20.80	50.05	74.00	-23.95	peak
6	17967.000	24.10	25.89	49.99	74.00	-24.01	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5200
Polarity:	Vertical	Test Voltage:	7.2 Vdc



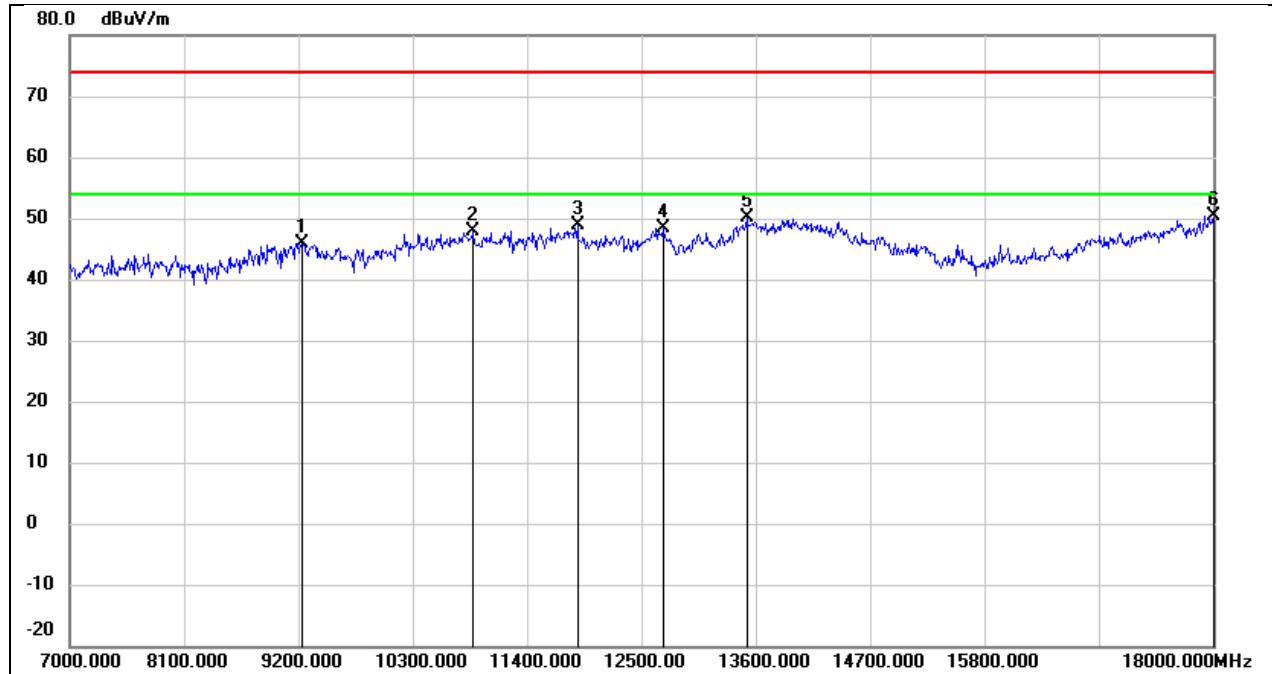
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8738.000	37.69	8.53	46.22	74.00	-27.78	peak
2	10355.000	35.72	12.52	48.24	74.00	-25.76	peak
3	11059.000	34.58	14.96	49.54	74.00	-24.46	peak
4	12643.000	32.69	18.01	50.70	74.00	-23.30	peak
5	13567.000	29.00	20.80	49.80	74.00	-24.20	peak
6	17967.000	23.86	25.89	49.75	74.00	-24.25	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



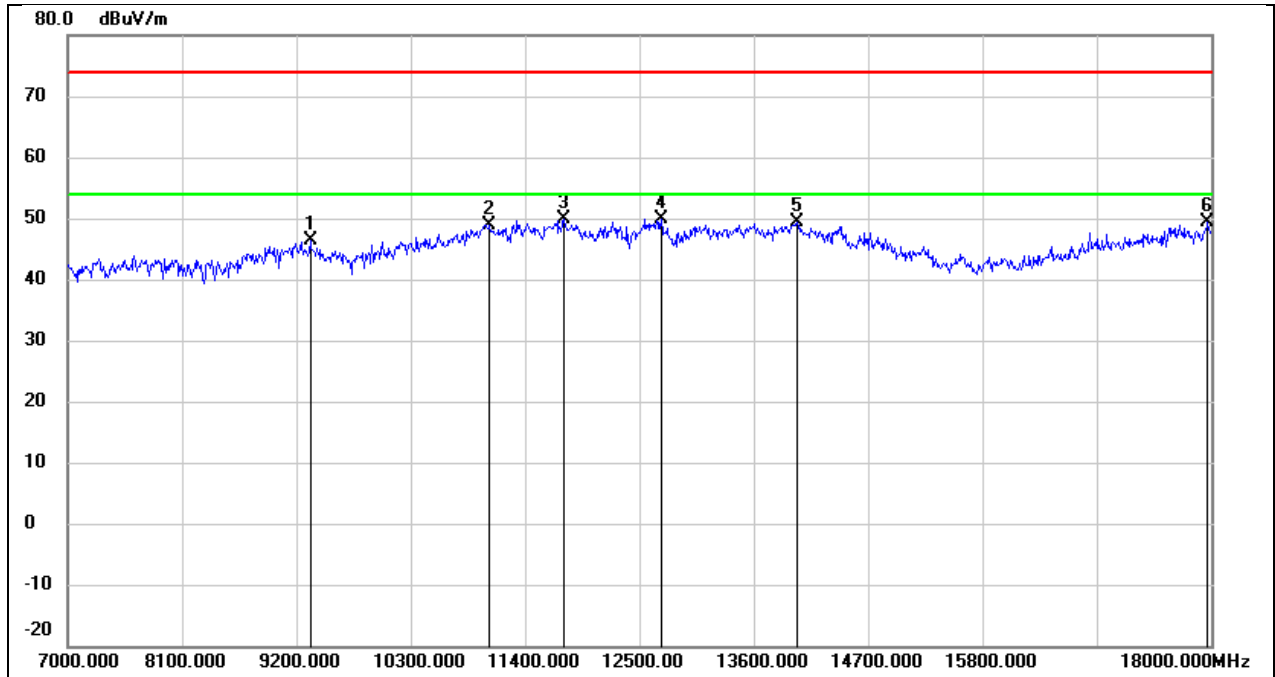
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9244.000	36.23	10.49	46.72	74.00	-27.28	peak
2	10190.000	35.39	12.18	47.57	74.00	-26.43	peak
3	11521.000	32.48	16.82	49.30	74.00	-24.70	peak
4	12665.000	31.54	18.04	49.58	74.00	-24.42	peak
5	13512.000	29.27	20.68	49.95	74.00	-24.05	peak
6	17692.000	25.04	24.01	49.05	74.00	-24.95	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5240
Polarity:	Vertical	Test Voltage:	7.2 Vdc



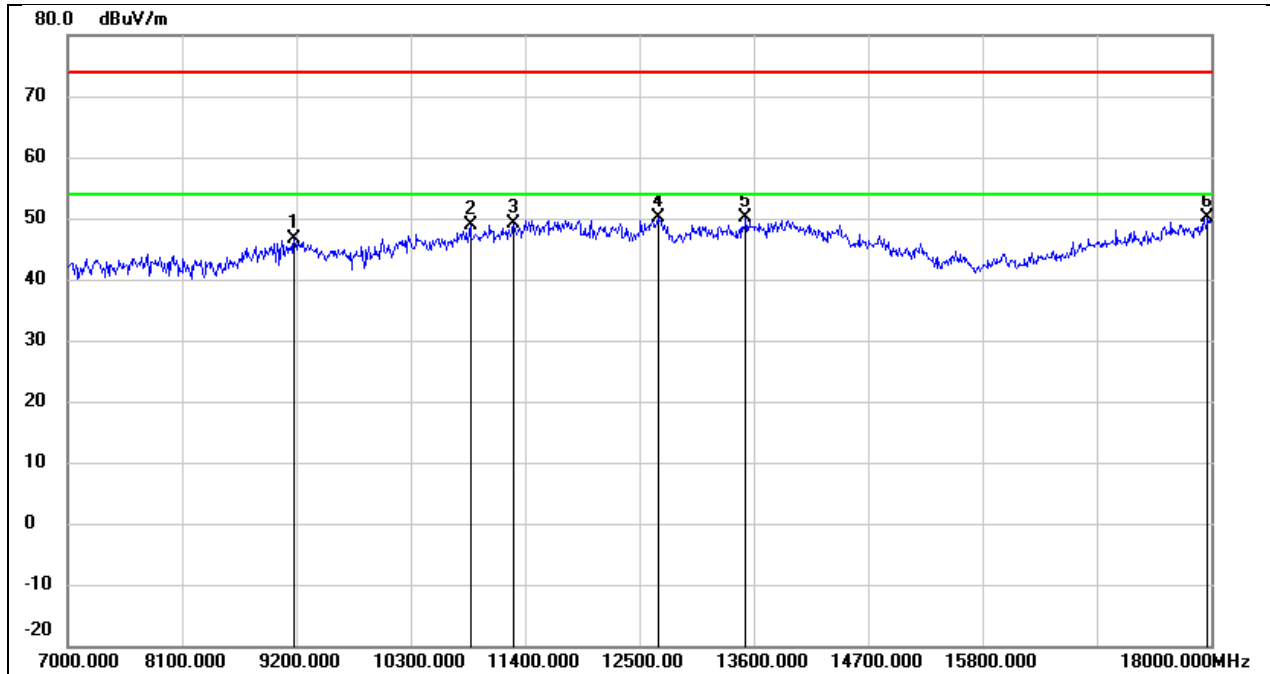
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9233.000	35.51	10.48	45.99	74.00	-28.01	peak
2	10883.000	33.71	14.27	47.98	74.00	-26.02	peak
3	11884.000	31.28	17.48	48.76	74.00	-25.24	peak
4	12709.000	30.33	18.09	48.42	74.00	-25.58	peak
5	13512.000	29.50	20.68	50.18	74.00	-23.82	peak
6	18000.000	24.26	26.12	50.38	74.00	-23.62	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5260
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



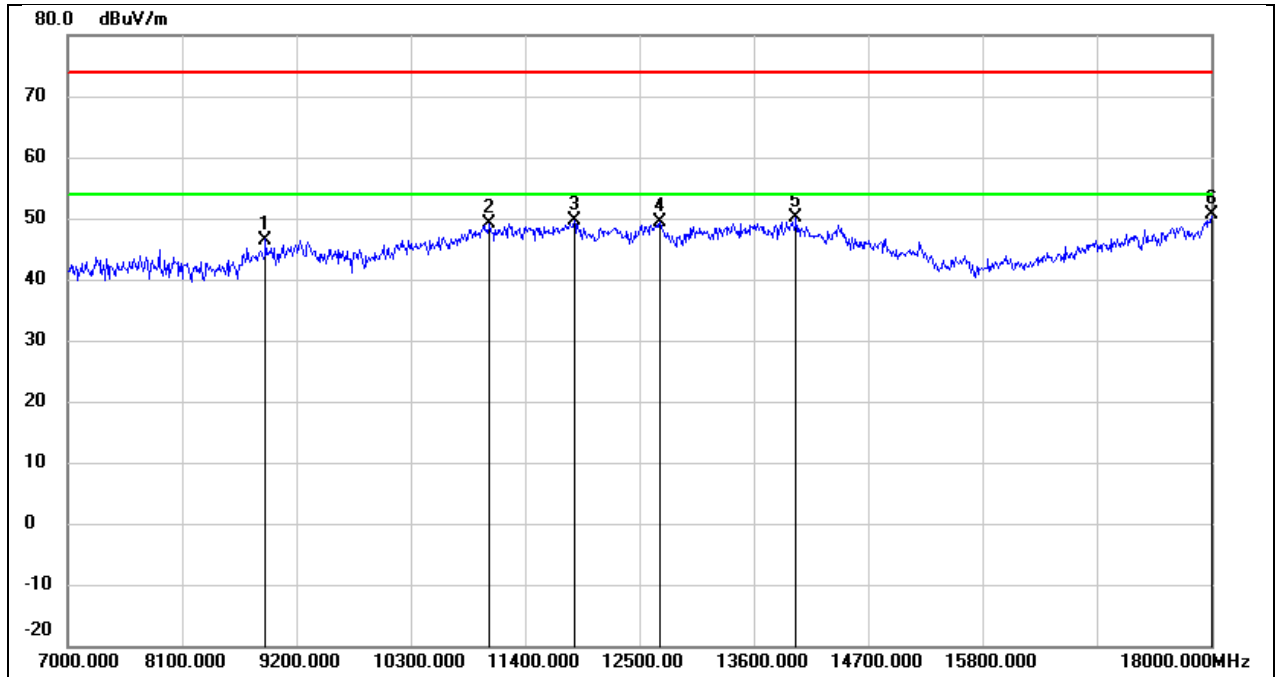
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9332.000	35.85	10.54	46.39	74.00	-27.61	peak
2	11059.000	34.04	14.96	49.00	74.00	-25.00	peak
3	11774.000	32.60	17.28	49.88	74.00	-24.12	peak
4	12709.000	31.74	18.09	49.83	74.00	-24.17	peak
5	14018.000	27.68	21.80	49.48	74.00	-24.52	peak
6	17967.000	23.57	25.89	49.46	74.00	-24.54	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5260
Polarity:	Vertical	Test Voltage:	7.2 Vdc



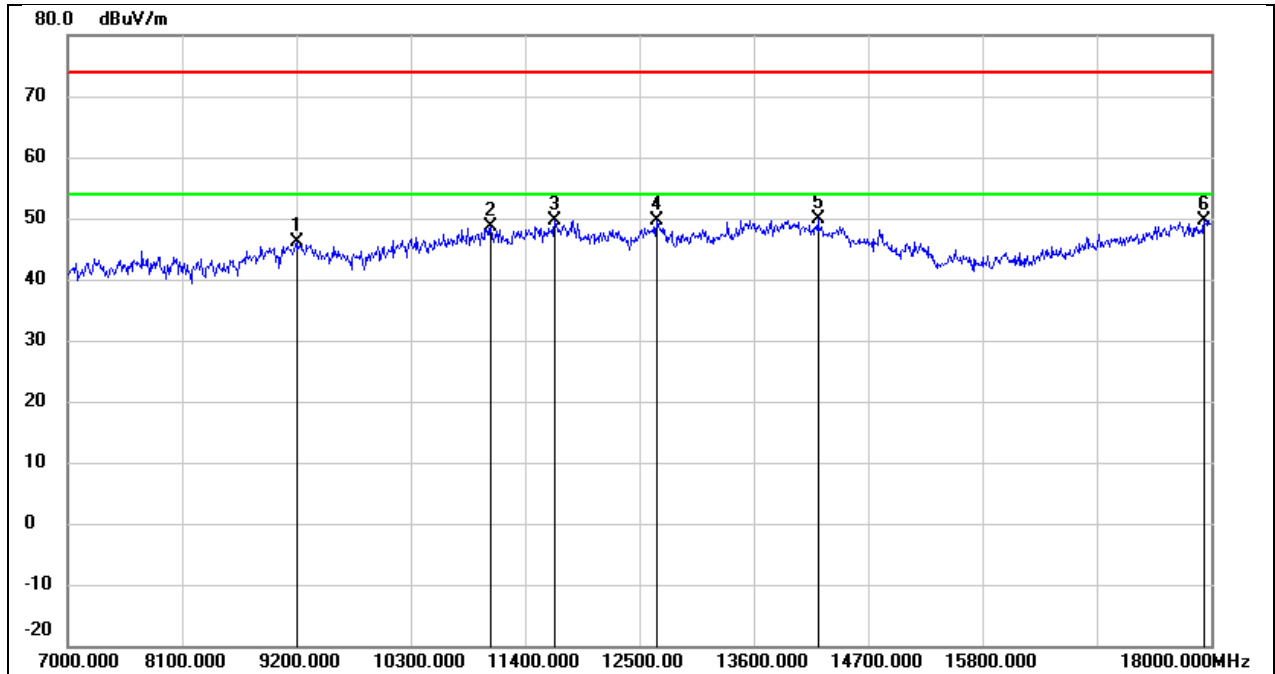
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9178.000	36.27	10.45	46.72	74.00	-27.28	peak
2	10872.000	34.68	14.23	48.91	74.00	-25.09	peak
3	11290.000	33.11	15.90	49.01	74.00	-24.99	peak
4	12676.000	32.16	18.05	50.21	74.00	-23.79	peak
5	13523.000	29.42	20.70	50.12	74.00	-23.88	peak
6	17967.000	24.13	25.89	50.02	74.00	-23.98	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5280
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



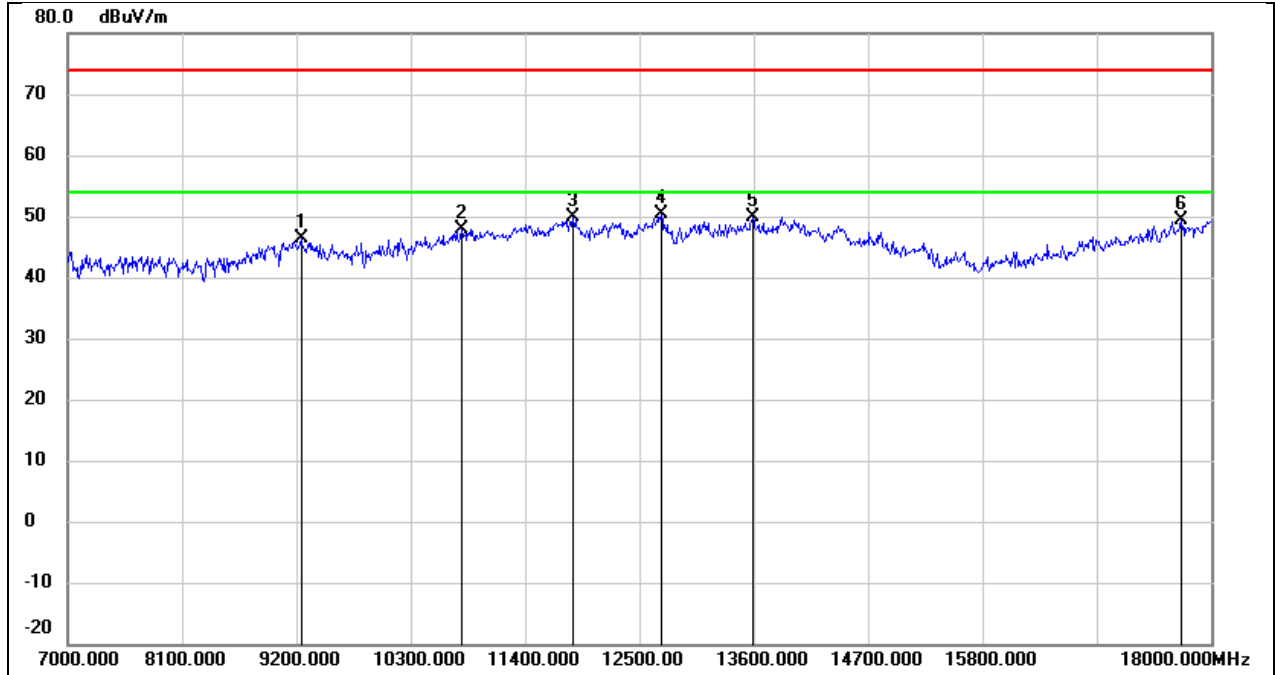
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8903.000	36.84	9.66	46.50	74.00	-27.50	peak
2	11059.000	34.07	14.96	49.03	74.00	-24.97	peak
3	11873.000	32.19	17.46	49.65	74.00	-24.35	peak
4	12698.000	31.33	18.08	49.41	74.00	-24.59	peak
5	14007.000	28.17	21.85	50.02	74.00	-23.98	peak
6	18000.000	24.56	26.12	50.68	74.00	-23.32	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5280
Polarity:	Vertical	Test Voltage:	7.2 Vdc



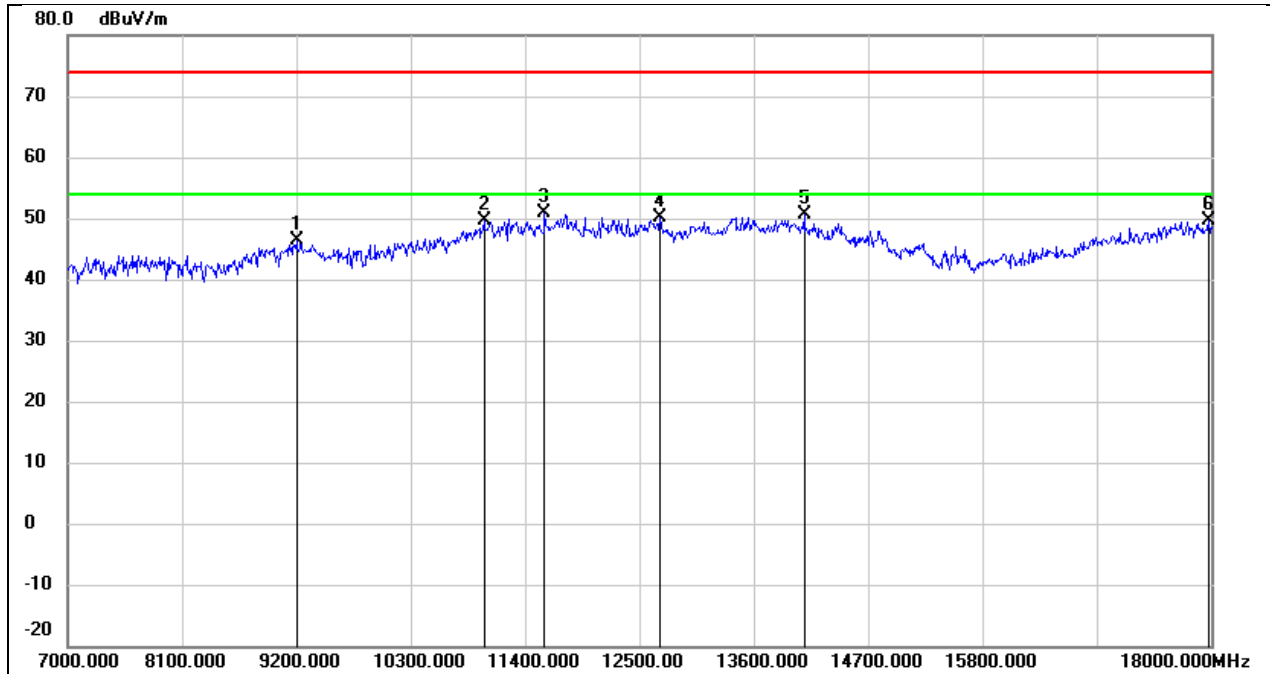
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9211.000	35.75	10.47	46.22	74.00	-27.78	peak
2	11070.000	33.63	15.01	48.64	74.00	-25.36	peak
3	11686.000	32.56	17.12	49.68	74.00	-24.32	peak
4	12665.000	31.47	18.04	49.51	74.00	-24.49	peak
5	14216.000	28.85	20.98	49.83	74.00	-24.17	peak
6	17934.000	24.00	25.67	49.67	74.00	-24.33	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5320
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



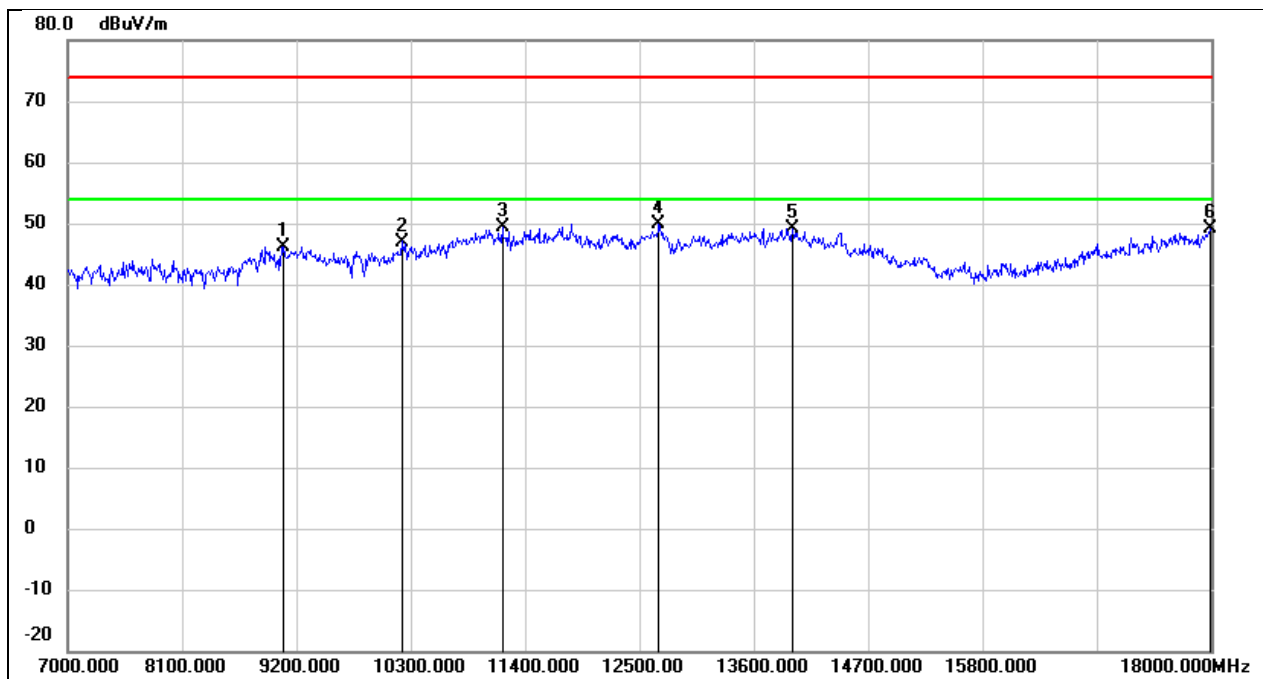
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9244.000	35.93	10.49	46.42	74.00	-27.58	peak
2	10795.000	34.05	13.94	47.99	74.00	-26.01	peak
3	11862.000	32.51	17.45	49.96	74.00	-24.04	peak
4	12709.000	32.25	18.09	50.34	74.00	-23.66	peak
5	13589.000	28.92	20.86	49.78	74.00	-24.22	peak
6	17714.000	25.16	24.16	49.32	74.00	-24.68	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5320
Polarity:	Vertical	Test Voltage:	7.2 Vdc



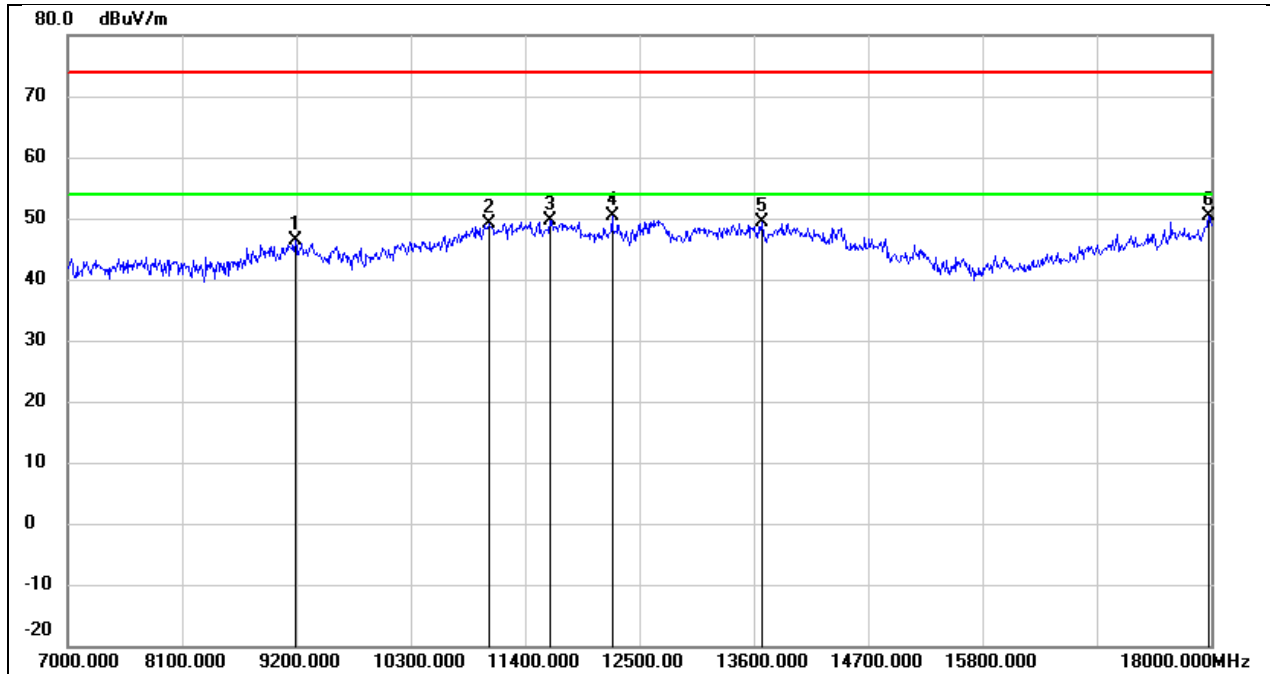
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9200.000	36.00	10.46	46.46	74.00	-27.54	peak
2	11004.000	34.79	14.74	49.53	74.00	-24.47	peak
3	11587.000	33.85	16.93	50.78	74.00	-23.22	peak
4	12698.000	32.05	18.08	50.13	74.00	-23.87	peak
5	14084.000	29.04	21.52	50.56	74.00	-23.44	peak
6	17978.000	23.58	25.97	49.55	74.00	-24.45	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5745
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



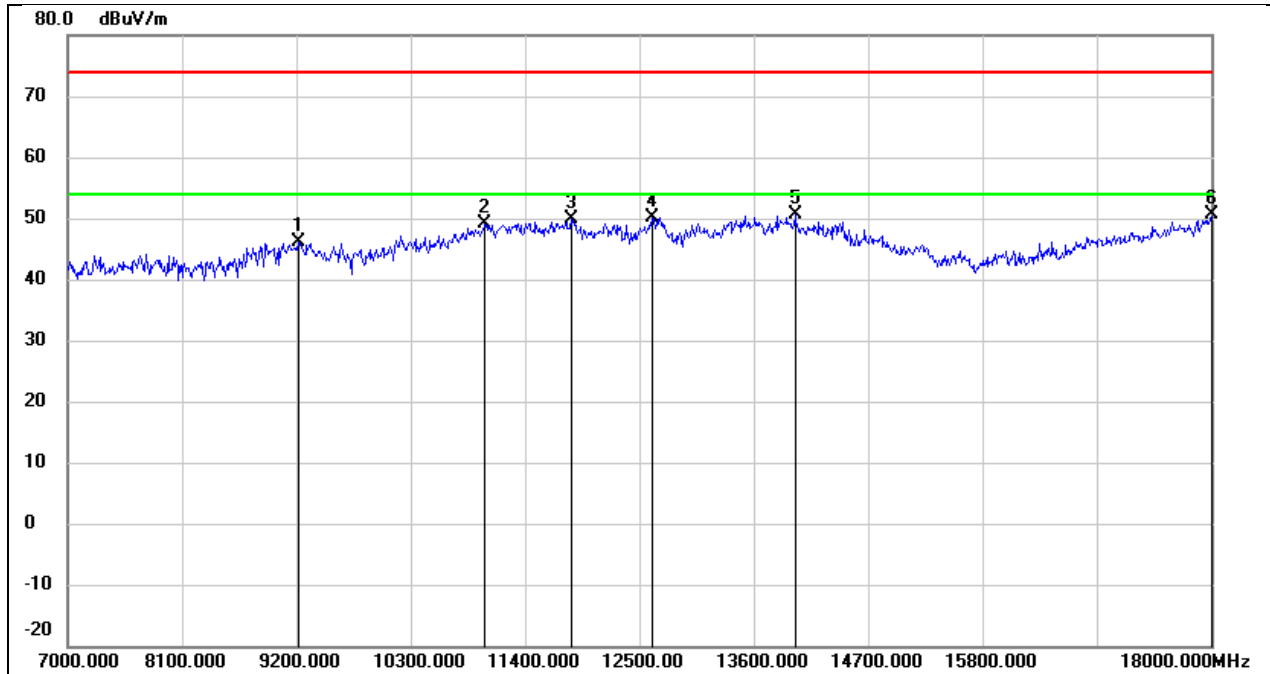
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9079.000	35.85	10.39	46.24	74.00	-27.76	peak
2	10212.000	34.79	12.21	47.00	74.00	-27.00	peak
3	11180.000	33.89	15.46	49.35	74.00	-24.65	peak
4	12687.000	31.78	18.05	49.83	74.00	-24.17	peak
5	13974.000	27.43	21.82	49.25	74.00	-24.75	peak
6	17989.000	23.04	26.04	49.08	74.00	-24.92	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5745
Polarity:	Vertical	Test Voltage:	7.2 Vdc



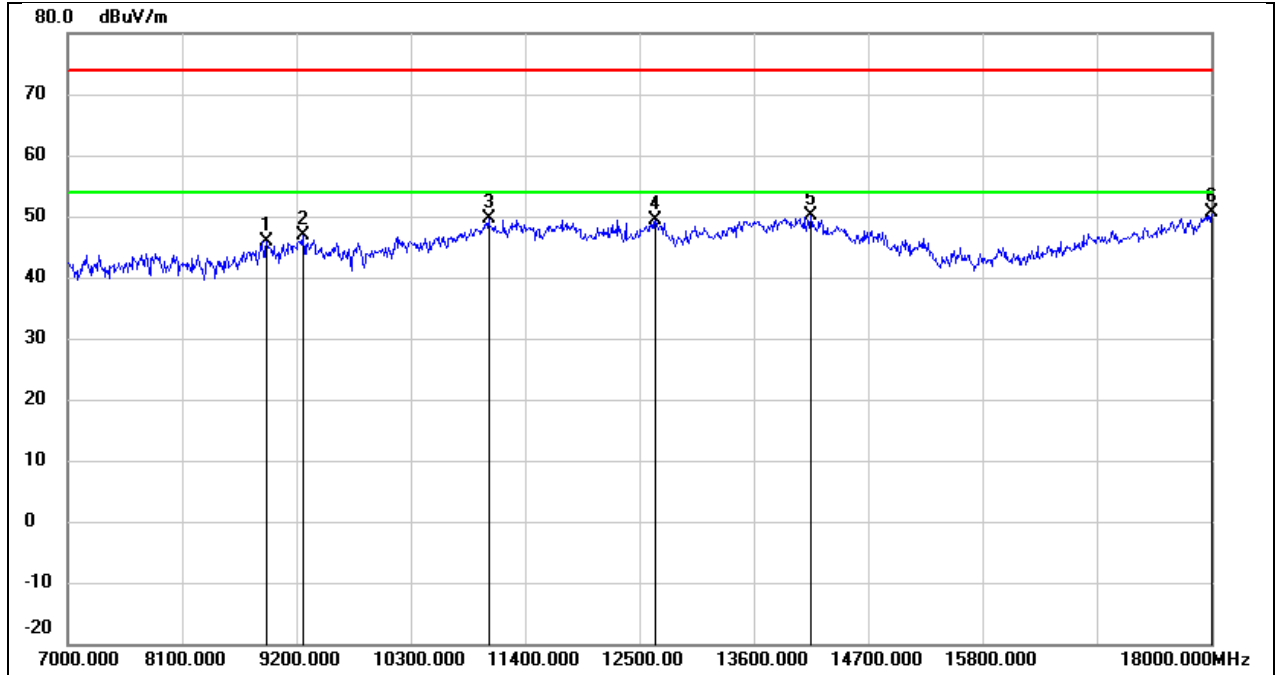
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9189.000	35.85	10.46	46.31	74.00	-27.69	peak
2	11059.000	34.15	14.96	49.11	74.00	-24.89	peak
3	11642.000	32.70	17.03	49.73	74.00	-24.27	peak
4	12236.000	32.50	17.76	50.26	74.00	-23.74	peak
5	13677.000	28.28	21.08	49.36	74.00	-24.64	peak
6	17978.000	24.32	25.97	50.29	74.00	-23.71	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5785
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



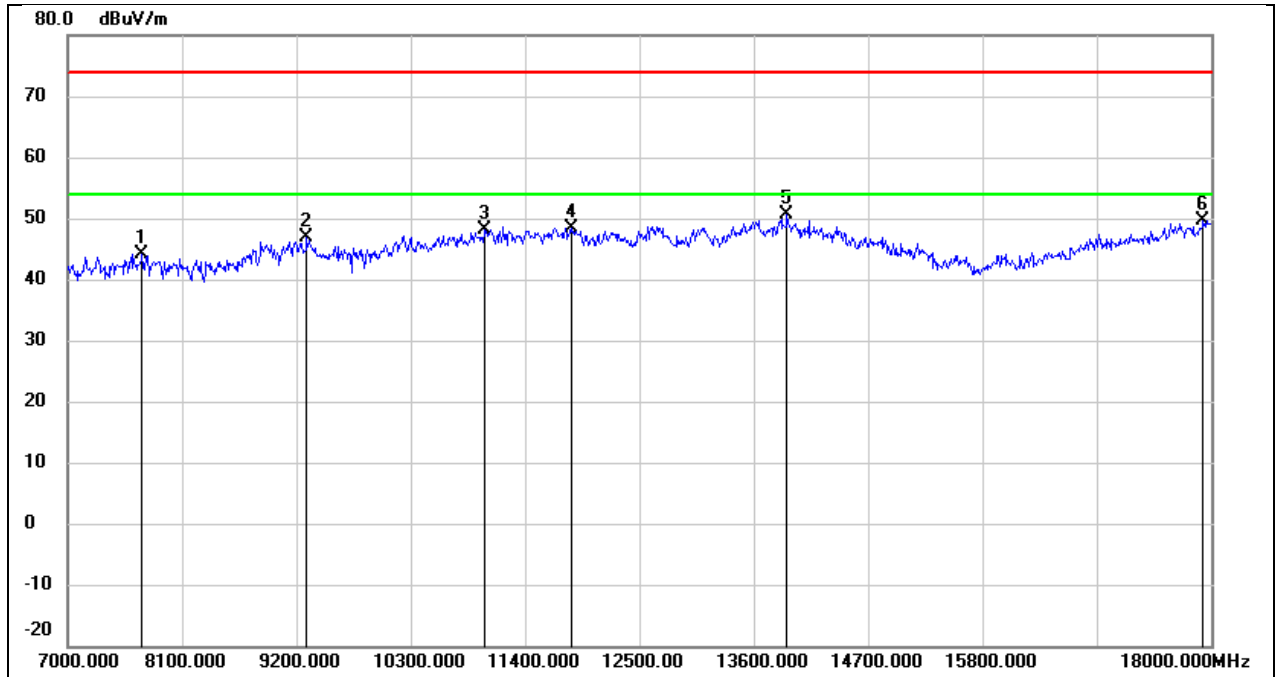
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9222.000	35.67	10.48	46.15	74.00	-27.85	peak
2	11015.000	34.25	14.79	49.04	74.00	-24.96	peak
3	11840.000	32.44	17.40	49.84	74.00	-24.16	peak
4	12621.000	32.20	17.98	50.18	74.00	-23.82	peak
5	13996.000	28.78	21.87	50.65	74.00	-23.35	peak
6	18000.000	24.59	26.12	50.71	74.00	-23.29	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5785
Polarity:	Vertical	Test Voltage:	7.2 Vdc



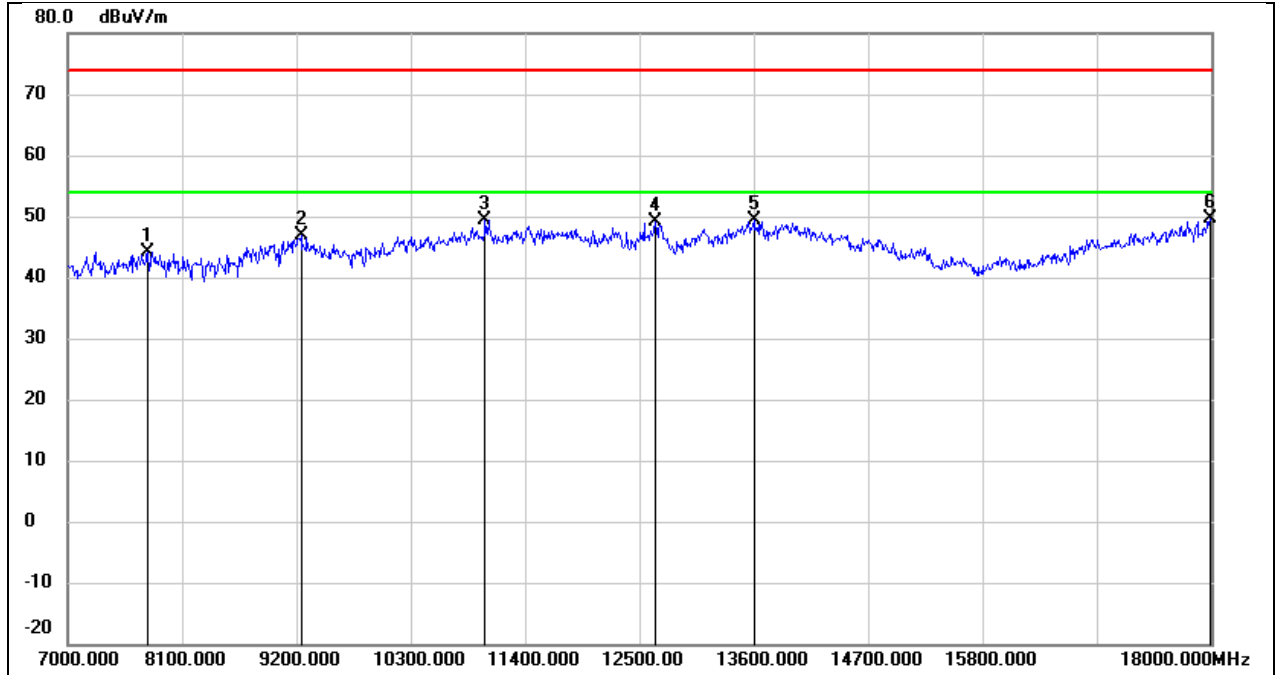
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8914.000	36.24	9.75	45.99	74.00	-28.01	peak
2	9266.000	36.32	10.51	46.83	74.00	-27.17	peak
3	11048.000	34.64	14.91	49.55	74.00	-24.45	peak
4	12654.000	31.29	18.01	49.30	74.00	-24.70	peak
5	14150.000	28.77	21.25	50.02	74.00	-23.98	peak
6	18000.000	24.55	26.12	50.67	74.00	-23.33	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5825
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



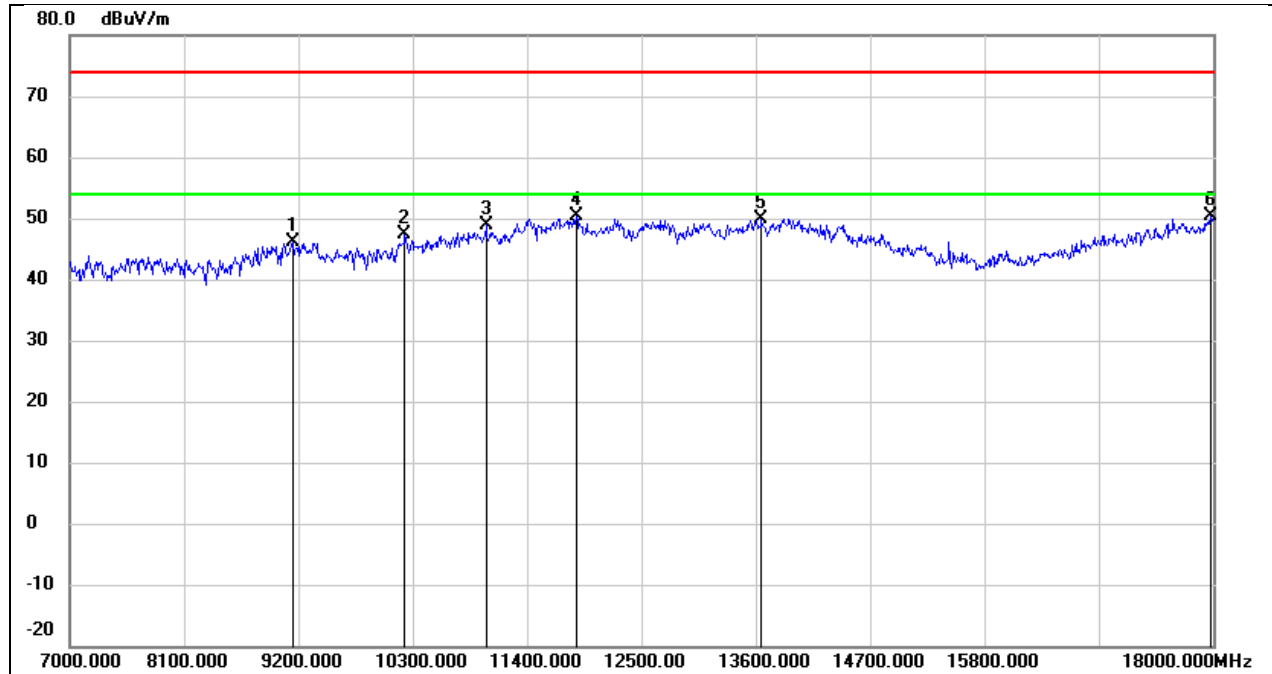
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7715.000	37.37	6.68	44.05	74.00	-29.95	peak
2	9299.000	36.32	10.53	46.85	74.00	-27.15	peak
3	11015.000	33.25	14.79	48.04	74.00	-25.96	peak
4	11840.000	31.09	17.40	48.49	74.00	-25.51	peak
5	13919.000	29.06	21.68	50.74	74.00	-23.26	peak
6	17923.000	24.08	25.60	49.68	74.00	-24.32	peak

Test Mode:	802.11n HT20	Frequency(MHz):	5825
Polarity:	Vertical	Test Voltage:	7.2 Vdc



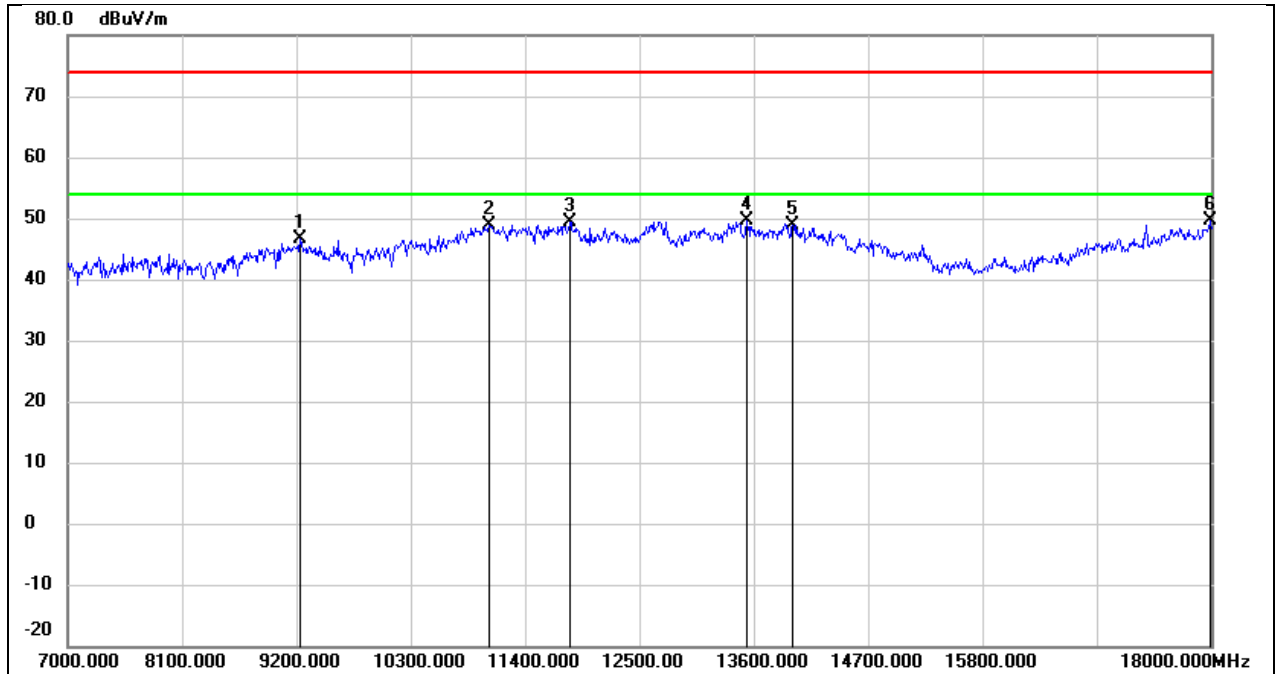
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7770.000	37.54	6.63	44.17	74.00	-29.83	peak
2	9244.000	36.27	10.49	46.76	74.00	-27.24	peak
3	11015.000	34.62	14.79	49.41	74.00	-24.59	peak
4	12654.000	31.00	18.01	49.01	74.00	-24.99	peak
5	13600.000	28.57	20.89	49.46	74.00	-24.54	peak
6	17989.000	23.70	26.04	49.74	74.00	-24.26	peak

Test Mode:	802.11n HT40	Frequency(MHz):	5190
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



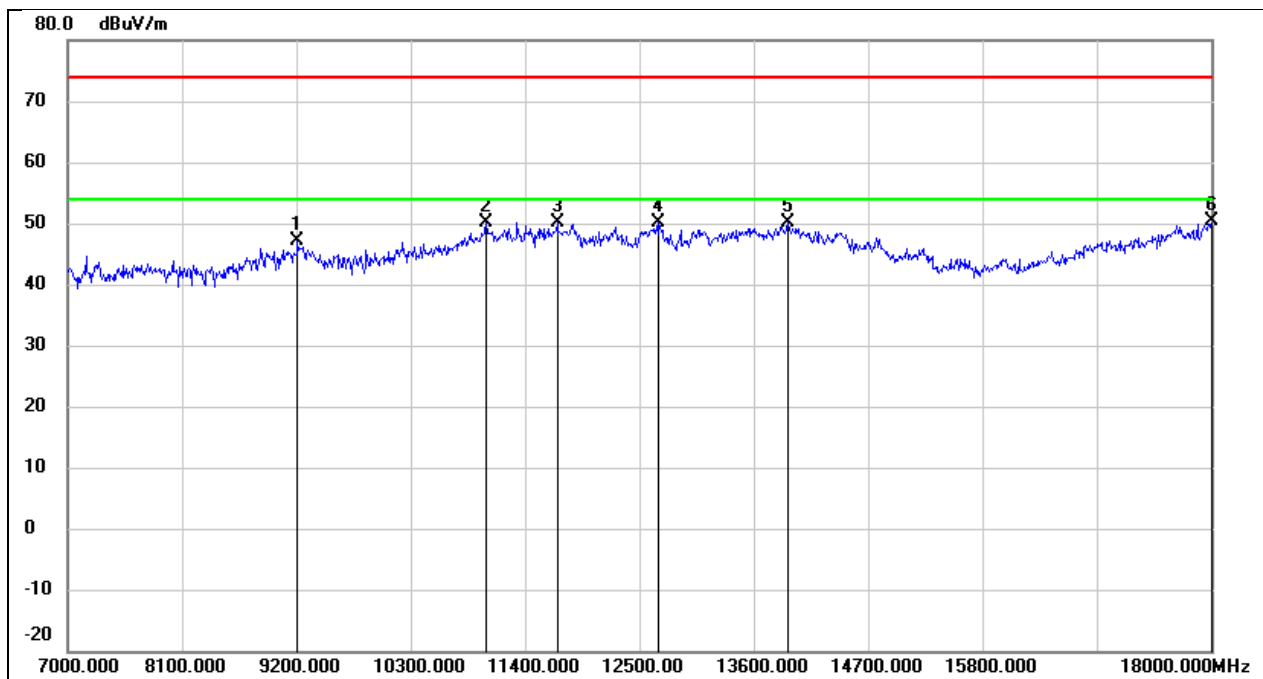
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9145.000	35.58	10.43	46.01	74.00	-27.99	peak
2	10223.000	35.04	12.24	47.28	74.00	-26.72	peak
3	11004.000	34.06	14.74	48.80	74.00	-25.20	peak
4	11873.000	32.93	17.46	50.39	74.00	-23.61	peak
5	13655.000	28.82	21.03	49.85	74.00	-24.15	peak
6	17978.000	24.30	25.97	50.27	74.00	-23.73	peak

Test Mode:	802.11n HT40	Frequency(MHz):	5190
Polarity:	Vertical	Test Voltage:	7.2 Vdc



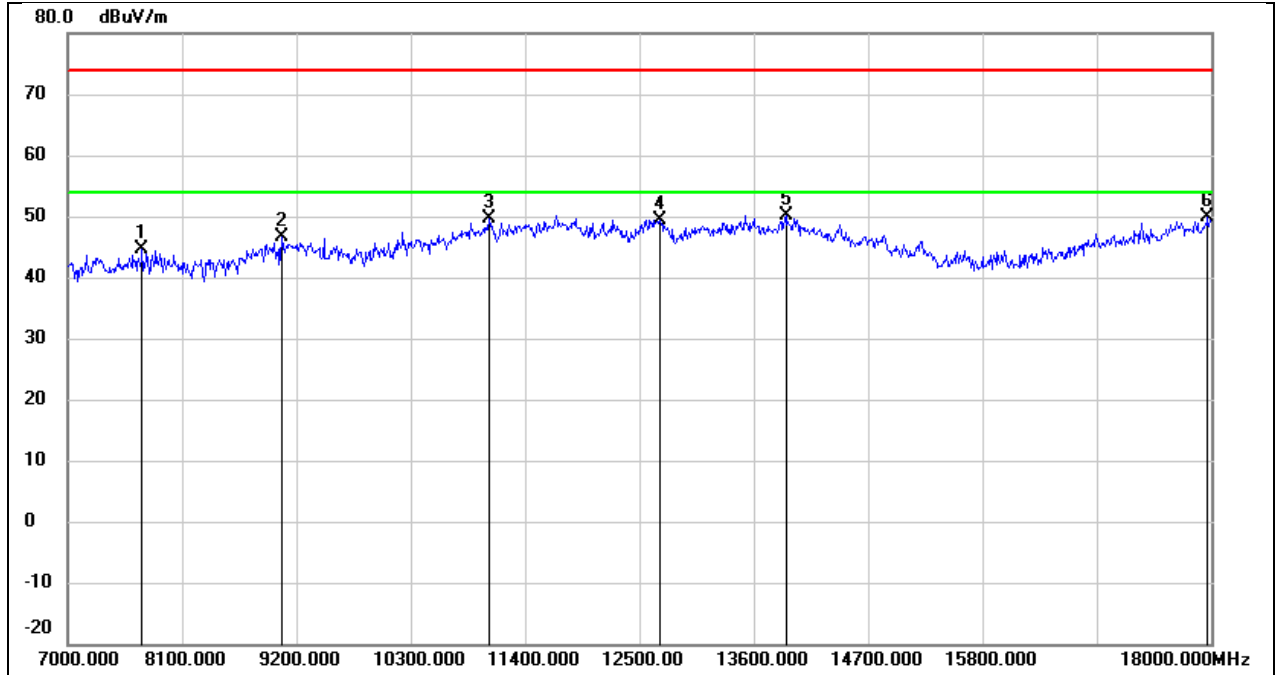
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9233.000	36.17	10.48	46.65	74.00	-27.35	peak
2	11048.000	33.91	14.91	48.82	74.00	-25.18	peak
3	11829.000	32.01	17.38	49.39	74.00	-24.61	peak
4	13534.000	28.89	20.73	49.62	74.00	-24.38	peak
5	13974.000	27.06	21.82	48.88	74.00	-25.12	peak
6	17989.000	23.56	26.04	49.60	74.00	-24.40	peak

Test Mode:	802.11n HT40	Frequency(MHz):	5230
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



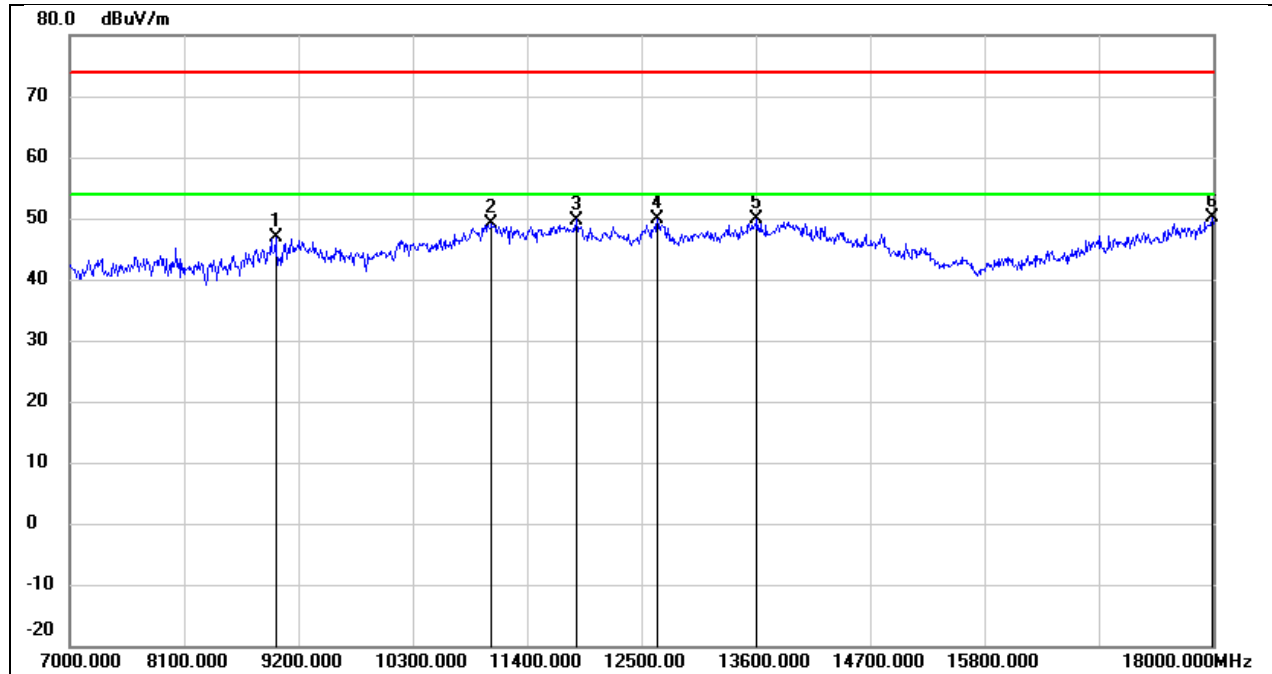
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9211.000	36.70	10.47	47.17	74.00	-26.83	peak
2	11026.000	35.20	14.82	50.02	74.00	-23.98	peak
3	11708.000	33.00	17.16	50.16	74.00	-23.84	peak
4	12687.000	32.12	18.05	50.17	74.00	-23.83	peak
5	13930.000	28.36	21.71	50.07	74.00	-23.93	peak
6	18000.000	24.37	26.12	50.49	74.00	-23.51	peak

Test Mode:	802.11n HT40	Frequency(MHz):	5230
Polarity:	Vertical	Test Voltage:	7.2 Vdc



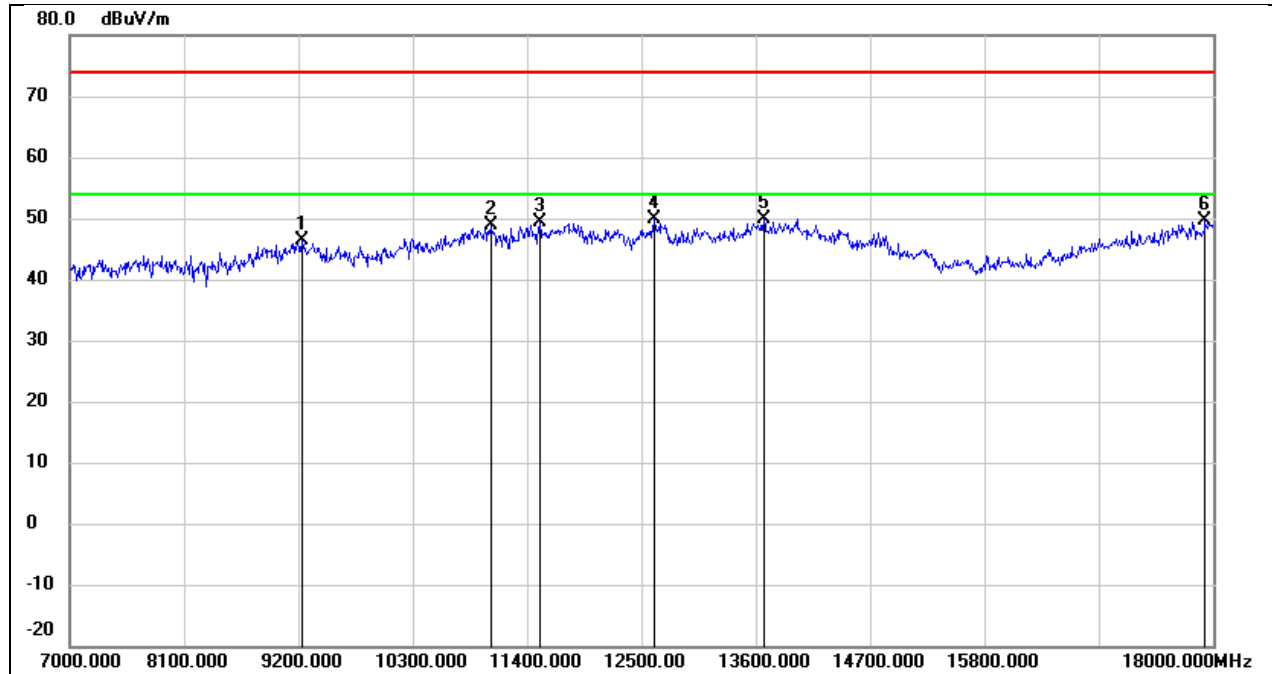
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7715.000	37.95	6.68	44.63	74.00	-29.37	peak
2	9057.000	36.34	10.38	46.72	74.00	-27.28	peak
3	11059.000	34.70	14.96	49.66	74.00	-24.34	peak
4	12698.000	31.38	18.08	49.46	74.00	-24.54	peak
5	13908.000	28.36	21.66	50.02	74.00	-23.98	peak
6	17967.000	23.87	25.89	49.76	74.00	-24.24	peak

Test Mode:	802.11n HT40	Frequency(MHz):	5270
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



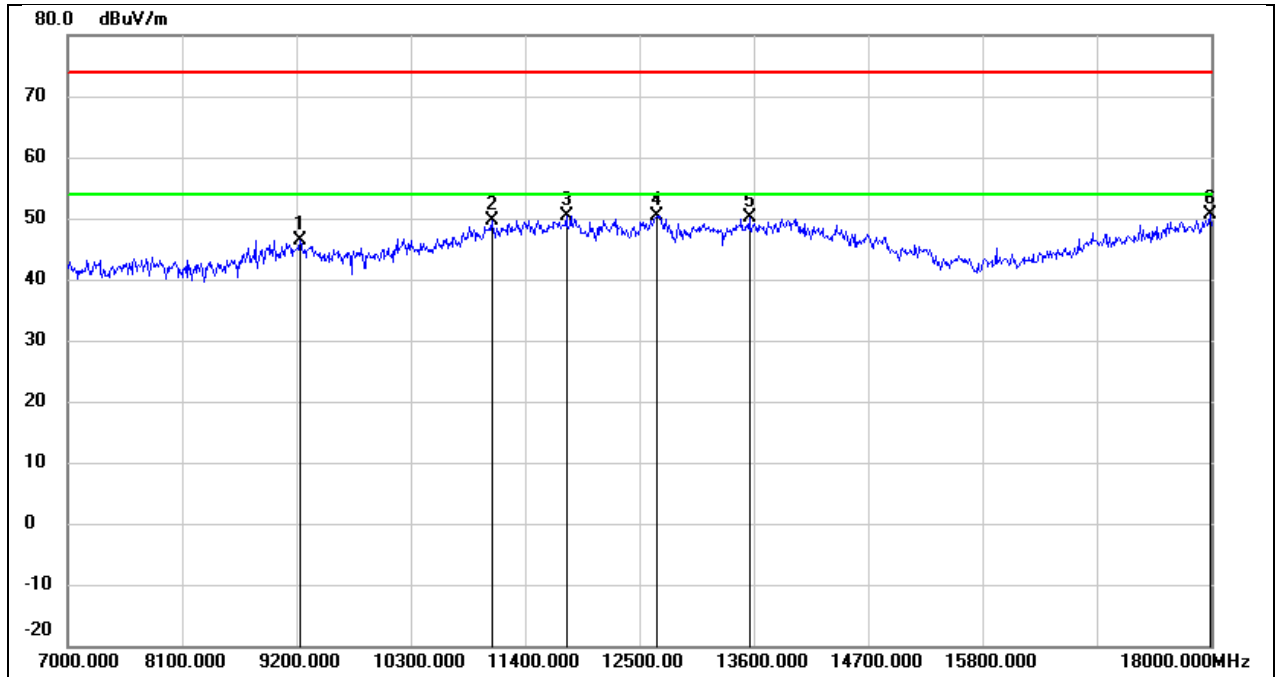
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8980.000	36.55	10.21	46.76	74.00	-27.24	peak
2	11059.000	34.26	14.96	49.22	74.00	-24.78	peak
3	11873.000	32.29	17.46	49.75	74.00	-24.25	peak
4	12654.000	31.77	18.01	49.78	74.00	-24.22	peak
5	13611.000	28.88	20.92	49.80	74.00	-24.20	peak
6	17989.000	24.00	26.04	50.04	74.00	-23.96	peak

Test Mode:	802.11n HT40	Frequency(MHz):	5270
Polarity:	Vertical	Test Voltage:	7.2 Vdc



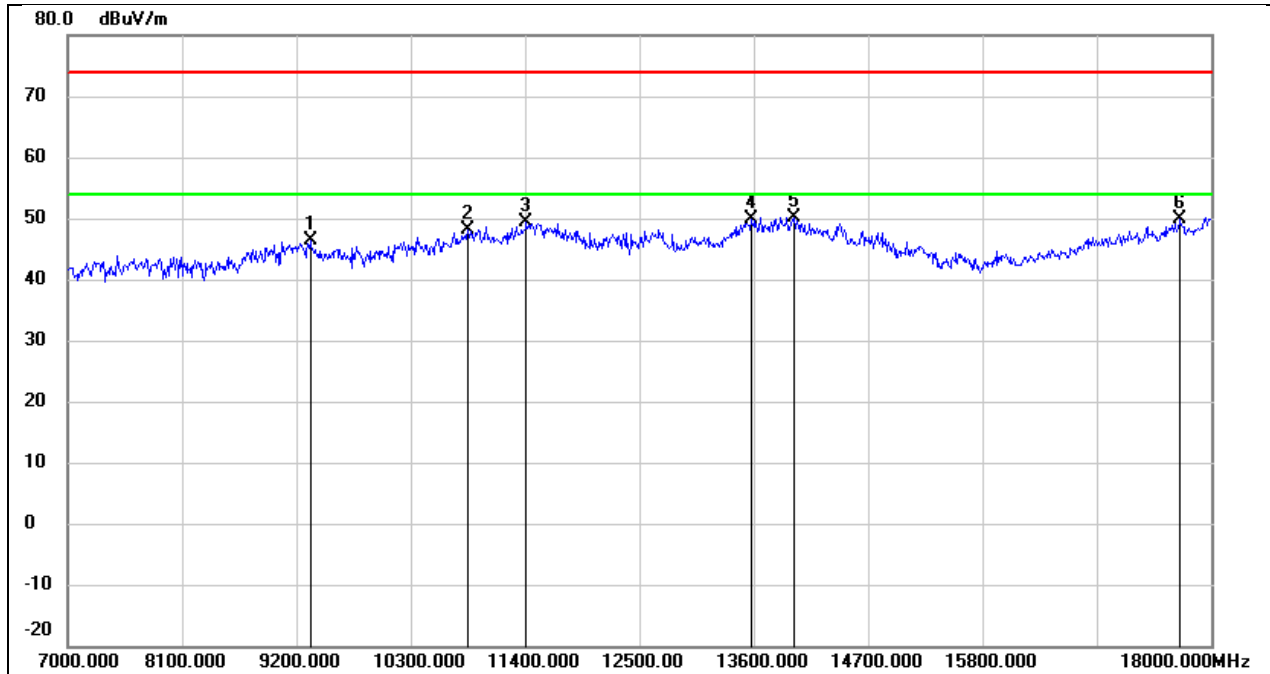
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9233.000	35.95	10.48	46.43	74.00	-27.57	peak
2	11048.000	33.87	14.91	48.78	74.00	-25.22	peak
3	11521.000	32.45	16.82	49.27	74.00	-24.73	peak
4	12621.000	31.99	17.98	49.97	74.00	-24.03	peak
5	13677.000	28.76	21.08	49.84	74.00	-24.16	peak
6	17923.000	24.14	25.60	49.74	74.00	-24.26	peak

Test Mode:	802.11n HT40	Frequency(MHz):	5310
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



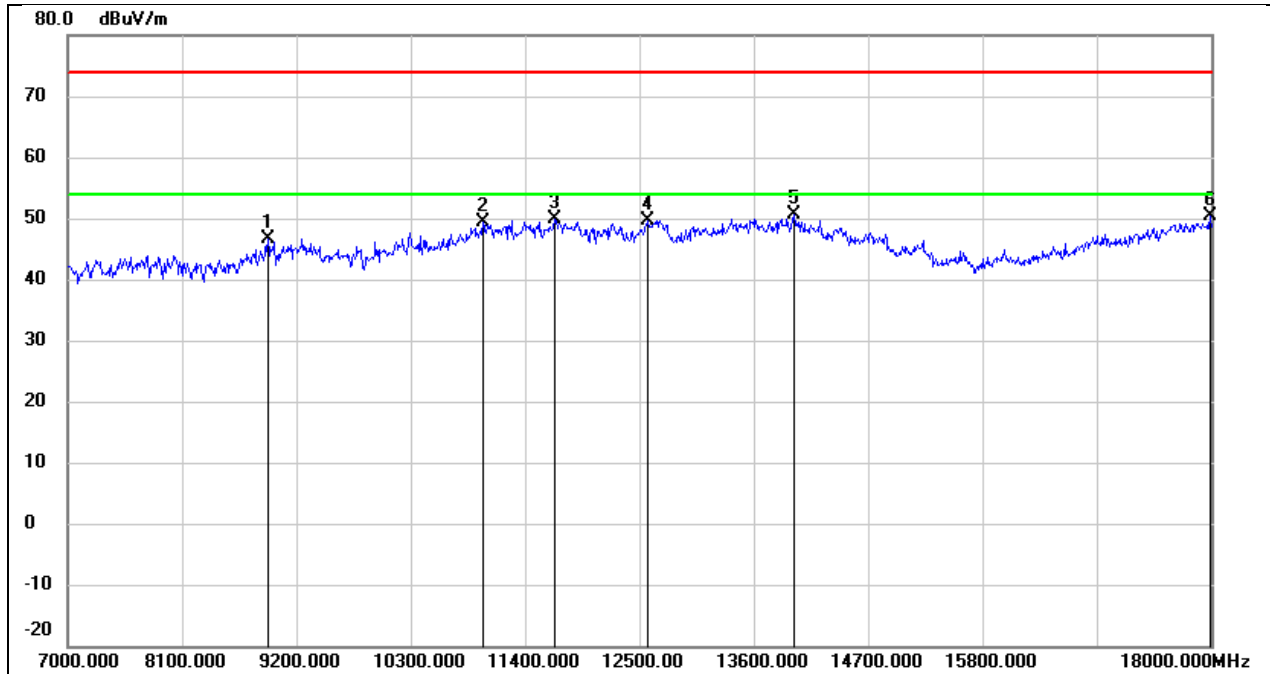
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9233.000	35.95	10.48	46.43	74.00	-27.57	peak
2	11081.000	34.68	15.05	49.73	74.00	-24.27	peak
3	11796.000	33.00	17.32	50.32	74.00	-23.68	peak
4	12665.000	32.31	18.04	50.35	74.00	-23.65	peak
5	13556.000	29.33	20.78	50.11	74.00	-23.89	peak
6	17989.000	24.68	26.04	50.72	74.00	-23.28	peak

Test Mode:	802.11n HT40	Frequency(MHz):	5310
Polarity:	Vertical	Test Voltage:	7.2 Vdc



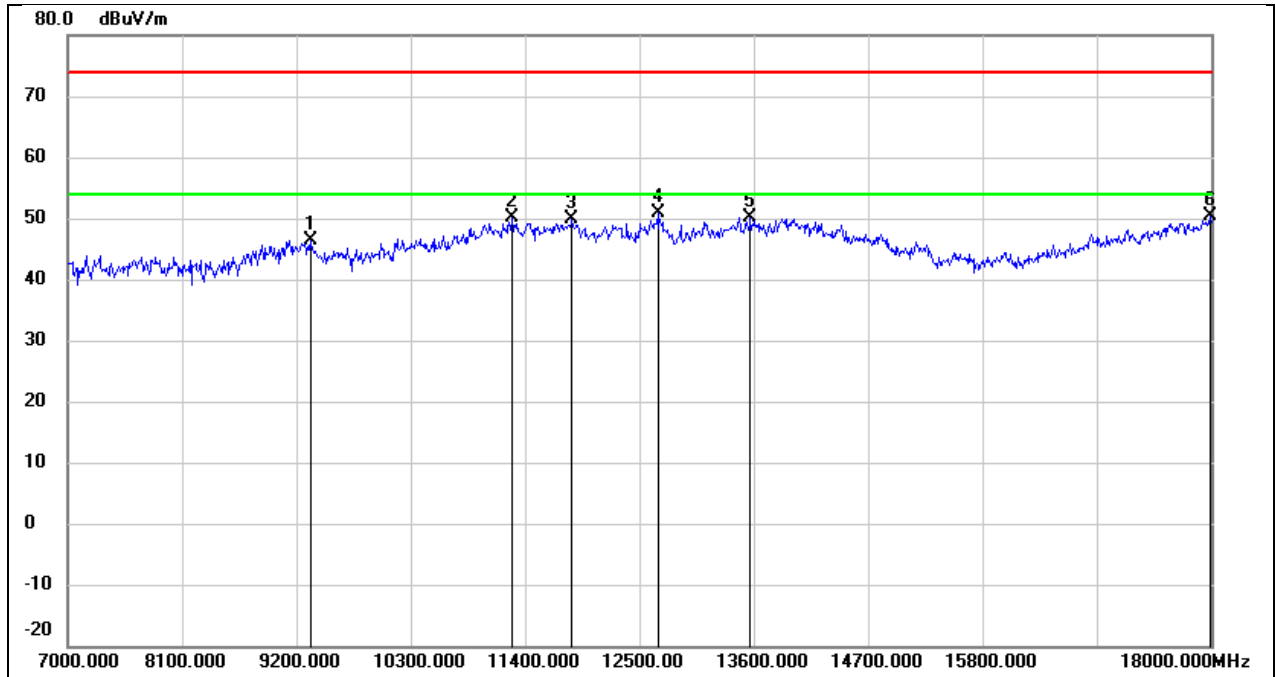
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9332.000	35.81	10.54	46.35	74.00	-27.65	peak
2	10850.000	34.04	14.15	48.19	74.00	-25.81	peak
3	11411.000	33.04	16.41	49.45	74.00	-24.55	peak
4	13578.000	28.99	20.83	49.82	74.00	-24.18	peak
5	13985.000	28.36	21.85	50.21	74.00	-23.79	peak
6	17703.000	25.76	24.09	49.85	74.00	-24.15	peak

Test Mode:	802.11n HT40	Frequency(MHz):	5755
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



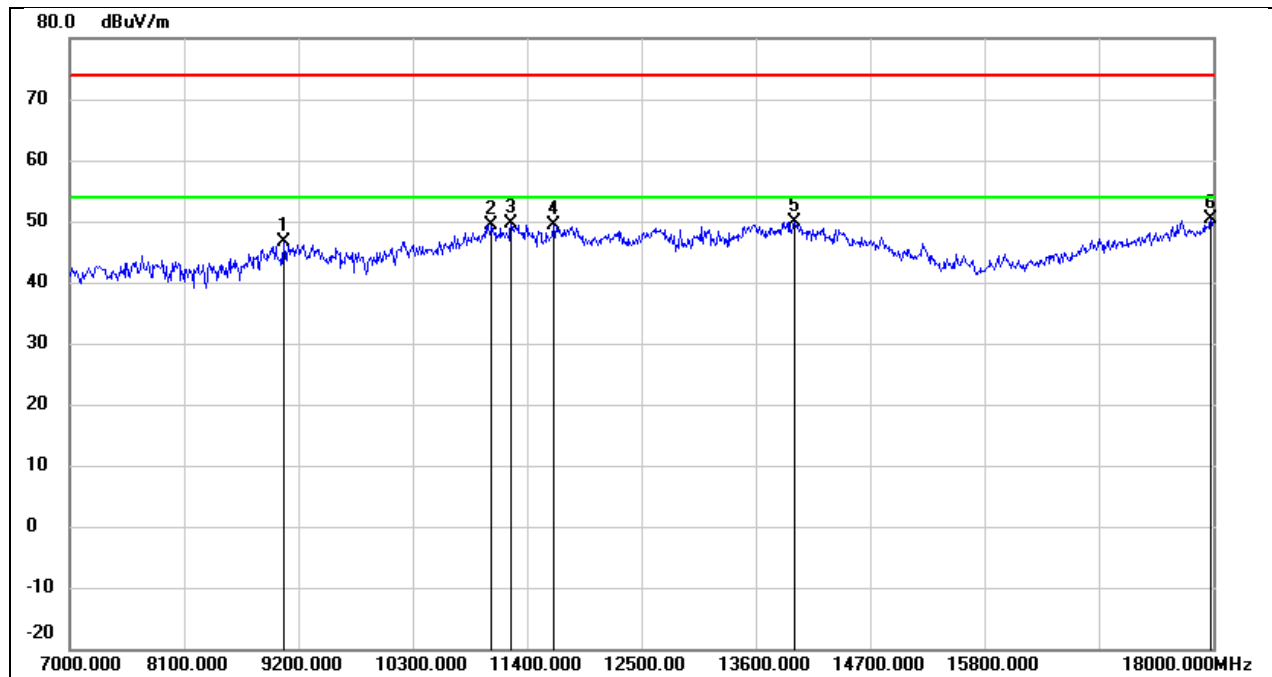
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8925.000	36.93	9.82	46.75	74.00	-27.25	peak
2	10993.000	34.61	14.70	49.31	74.00	-24.69	peak
3	11686.000	32.75	17.12	49.87	74.00	-24.13	peak
4	12577.000	31.78	17.93	49.71	74.00	-24.29	peak
5	13985.000	28.71	21.85	50.56	74.00	-23.44	peak
6	17989.000	24.23	26.04	50.27	74.00	-23.73	peak

Test Mode:	802.11n HT40	Frequency(MHz):	5755
Polarity:	Vertical	Test Voltage:	7.2 Vdc



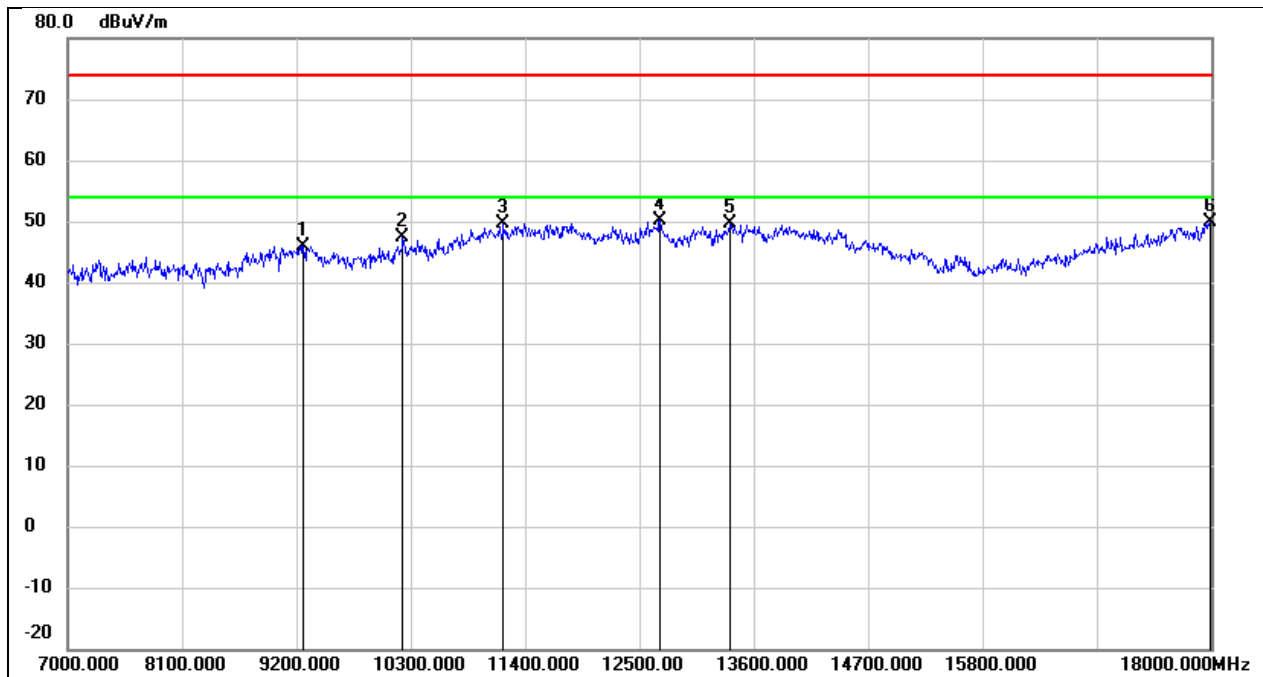
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9332.000	35.84	10.54	46.38	74.00	-27.62	peak
2	11279.000	34.29	15.86	50.15	74.00	-23.85	peak
3	11851.000	32.37	17.43	49.80	74.00	-24.20	peak
4	12676.000	32.79	18.05	50.84	74.00	-23.16	peak
5	13567.000	29.35	20.80	50.15	74.00	-23.85	peak
6	17989.000	24.27	26.04	50.31	74.00	-23.69	peak

Test Mode:	802.11n HT40	Frequency(MHz):	5795
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



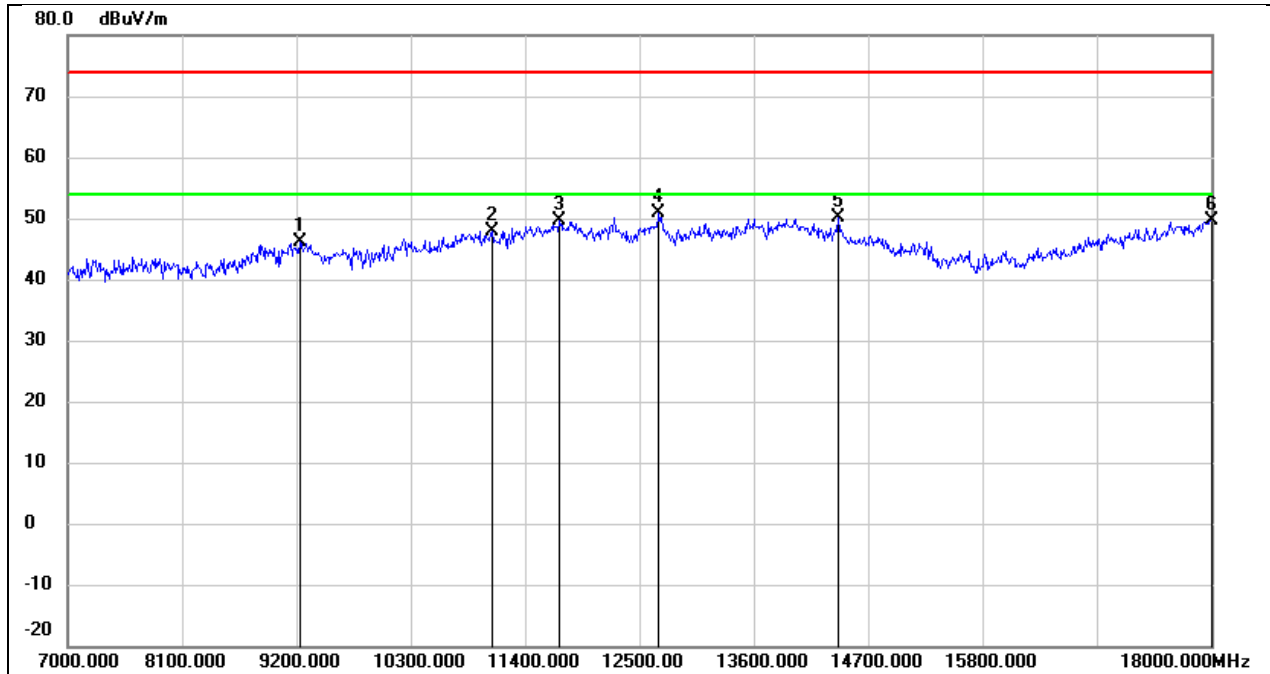
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9057.000	36.36	10.38	46.74	74.00	-27.26	peak
2	11059.000	34.48	14.96	49.44	74.00	-24.56	peak
3	11246.000	34.01	15.73	49.74	74.00	-24.26	peak
4	11653.000	32.22	17.05	49.27	74.00	-24.73	peak
5	13974.000	28.11	21.82	49.93	74.00	-24.07	peak
6	17978.000	24.37	25.97	50.34	74.00	-23.66	peak

Test Mode:	802.11n HT40	Frequency(MHz):	5795
Polarity:	Vertical	Test Voltage:	7.2 Vdc



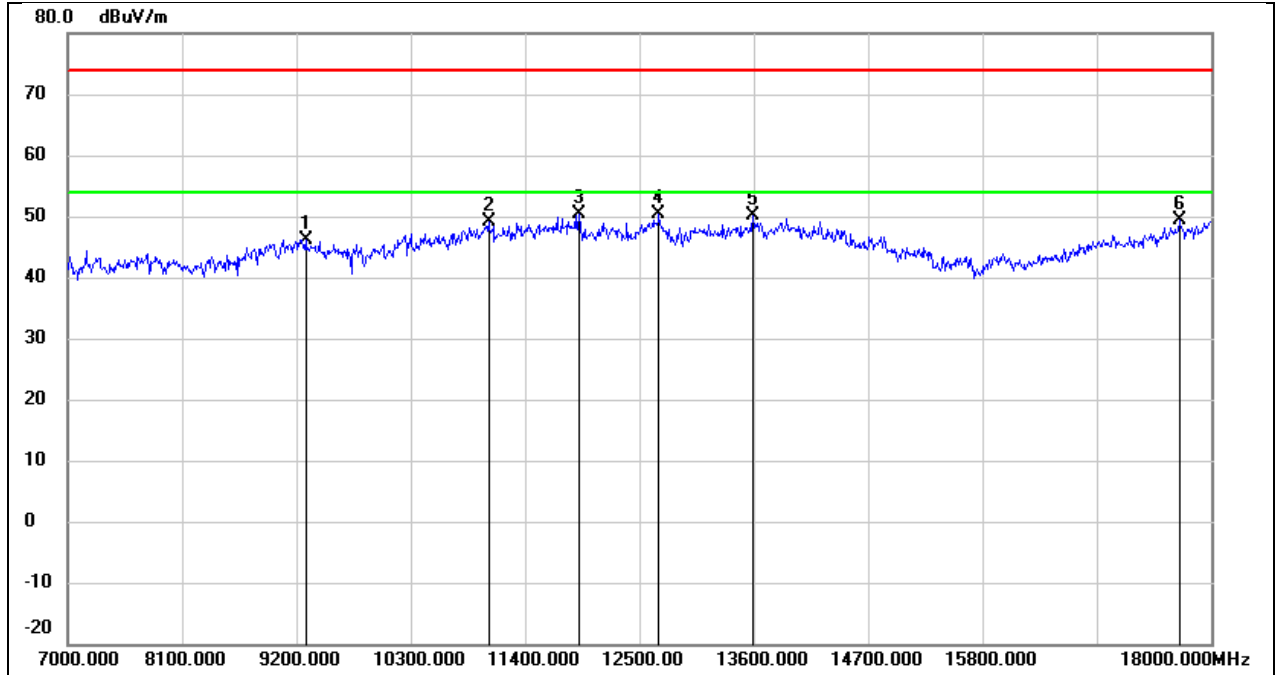
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9266.000	35.44	10.51	45.95	74.00	-28.05	peak
2	10223.000	35.08	12.24	47.32	74.00	-26.68	peak
3	11191.000	34.20	15.50	49.70	74.00	-24.30	peak
4	12698.000	32.04	18.08	50.12	74.00	-23.88	peak
5	13369.000	29.55	20.06	49.61	74.00	-24.39	peak
6	17989.000	23.91	26.04	49.95	74.00	-24.05	peak

Test Mode:	802.11ac VHT80	Frequency(MHz):	5210
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



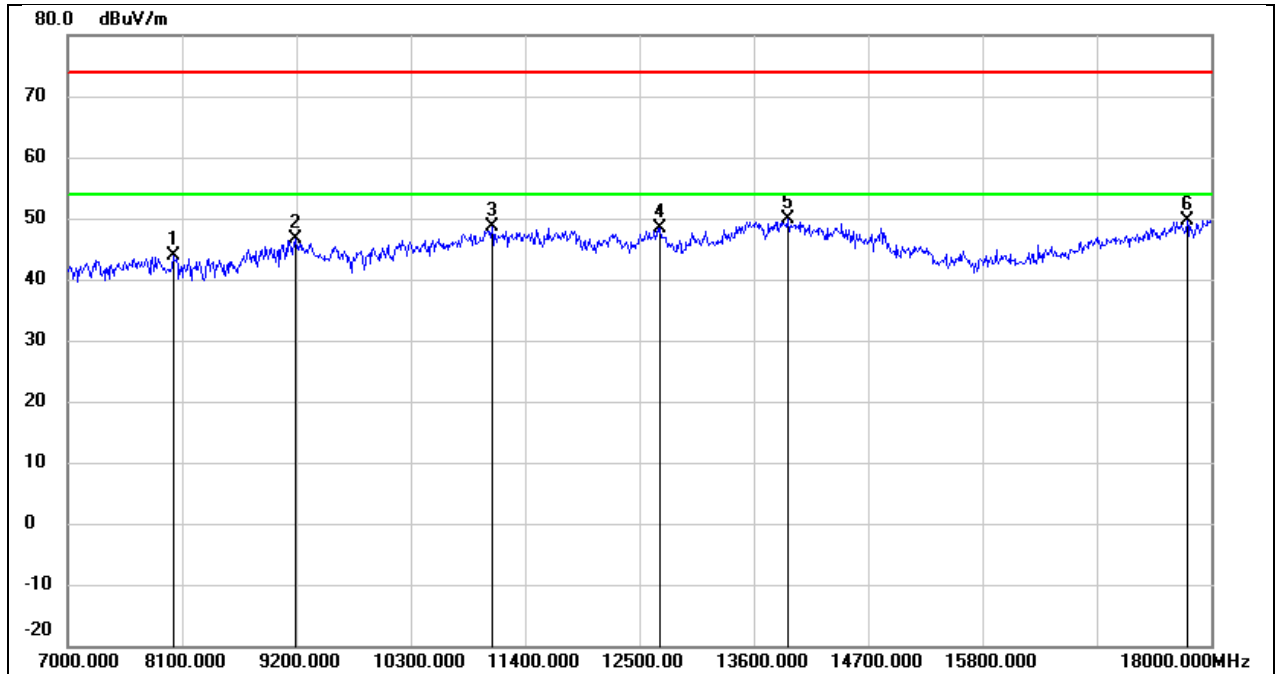
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9233.000	35.72	10.48	46.20	74.00	-27.80	peak
2	11081.000	32.93	15.05	47.98	74.00	-26.02	peak
3	11730.000	32.48	17.19	49.67	74.00	-24.33	peak
4	12687.000	32.83	18.05	50.88	74.00	-23.12	peak
5	14414.000	29.97	20.14	50.11	74.00	-23.89	peak
6	18000.000	23.44	26.12	49.56	74.00	-24.44	peak

Test Mode:	802.11ac VHT80	Frequency(MHz):	5210
Polarity:	Vertical	Test Voltage:	7.2 Vdc



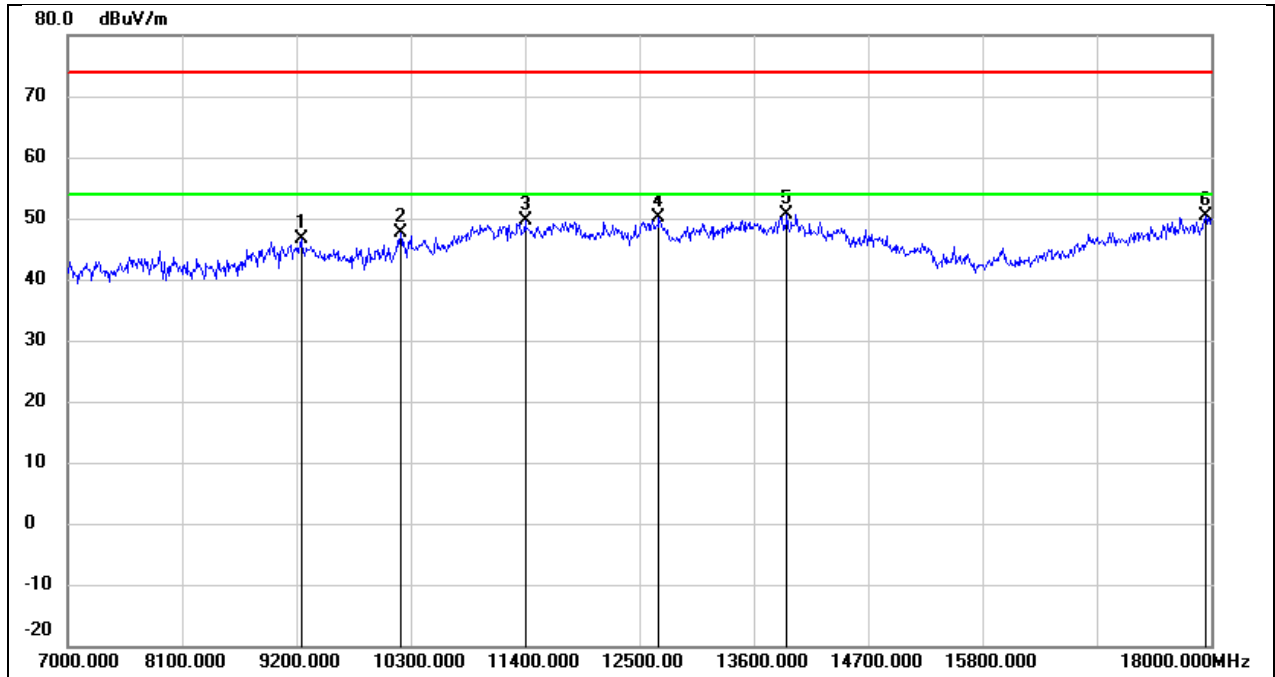
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9288.000	35.65	10.52	46.17	74.00	-27.83	peak
2	11048.000	34.14	14.91	49.05	74.00	-24.95	peak
3	11917.000	32.92	17.54	50.46	74.00	-23.54	peak
4	12687.000	32.22	18.05	50.27	74.00	-23.73	peak
5	13589.000	29.21	20.86	50.07	74.00	-23.93	peak
6	17692.000	25.40	24.01	49.41	74.00	-24.59	peak

Test Mode:	802.11ac VHT80	Frequency(MHz):	5290
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



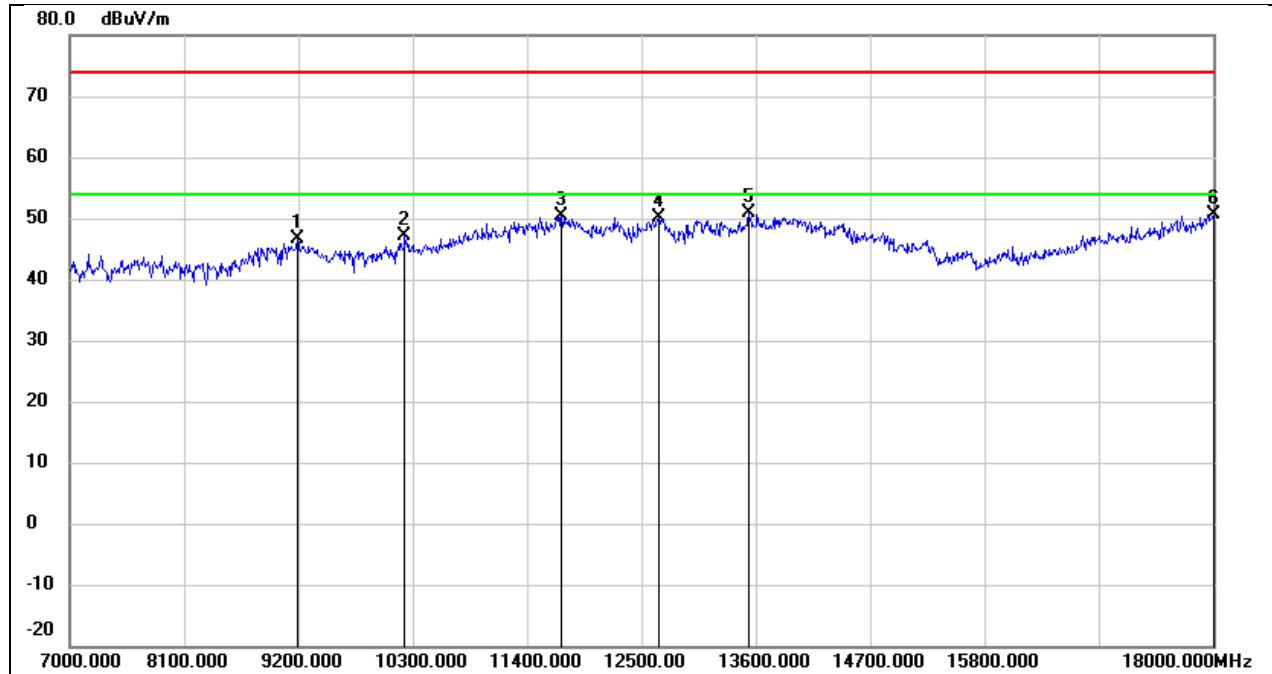
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8012.000	37.52	6.44	43.96	74.00	-30.04	peak
2	9189.000	36.22	10.46	46.68	74.00	-27.32	peak
3	11081.000	33.67	15.05	48.72	74.00	-25.28	peak
4	12698.000	30.28	18.08	48.36	74.00	-25.64	peak
5	13930.000	28.05	21.71	49.76	74.00	-24.24	peak
6	17769.000	25.16	24.53	49.69	74.00	-24.31	peak

Test Mode:	802.11ac VHT80	Frequency(MHz):	5290
Polarity:	Vertical	Test Voltage:	7.2 Vdc



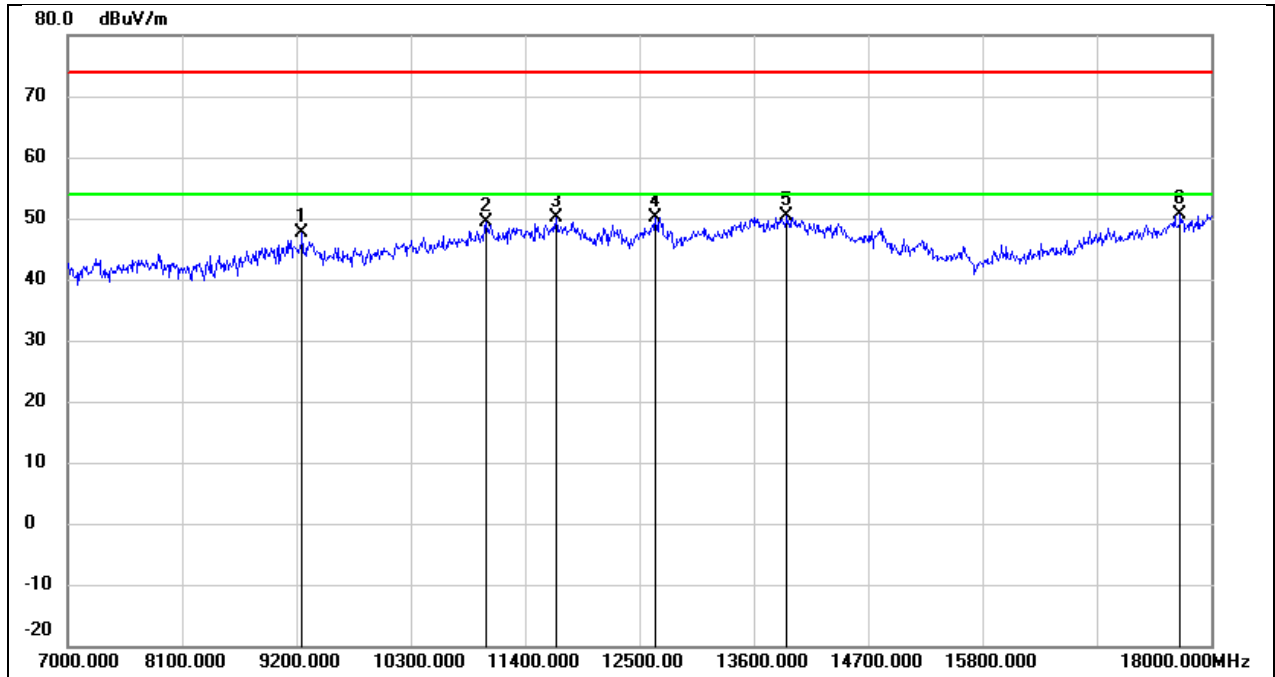
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9244.000	36.10	10.49	46.59	74.00	-27.41	peak
2	10201.000	35.52	12.19	47.71	74.00	-26.29	peak
3	11400.000	33.33	16.36	49.69	74.00	-24.31	peak
4	12687.000	32.19	18.05	50.24	74.00	-23.76	peak
5	13919.000	29.05	21.68	50.73	74.00	-23.27	peak
6	17945.000	24.60	25.75	50.35	74.00	-23.65	peak

Test Mode:	802.11ac VHT80	Frequency(MHz):	5775
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9189.000	36.16	10.46	46.62	74.00	-27.38	peak
2	10223.000	34.85	12.24	47.09	74.00	-26.91	peak
3	11730.000	33.26	17.19	50.45	74.00	-23.55	peak
4	12665.000	32.09	18.04	50.13	74.00	-23.87	peak
5	13534.000	30.19	20.73	50.92	74.00	-23.08	peak
6	18000.000	24.61	26.12	50.73	74.00	-23.27	peak

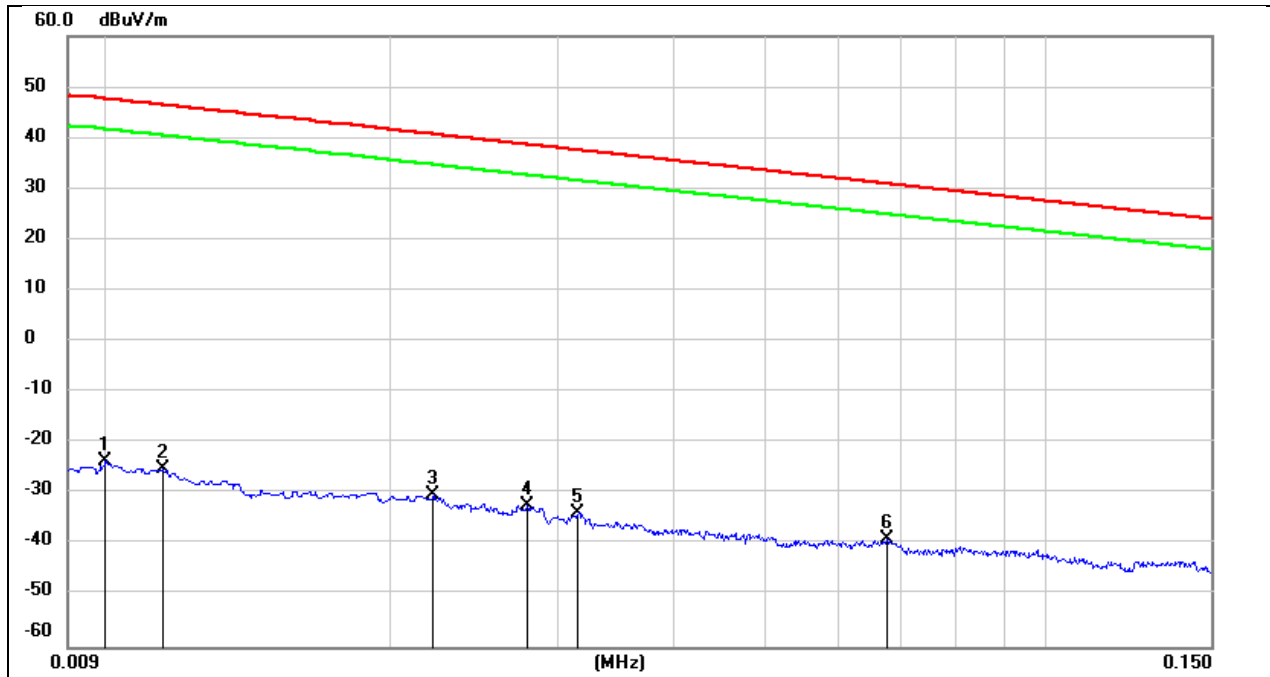
Test Mode:	802.11ac VHT80	Frequency(MHz):	5775
Polarity:	Vertical	Test Voltage:	7.2 Vdc



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9255.000	37.12	10.51	47.63	74.00	-26.37	peak
2	11026.000	34.56	14.82	49.38	74.00	-24.62	peak
3	11697.000	32.95	17.13	50.08	74.00	-23.92	peak
4	12654.000	32.04	18.01	50.05	74.00	-23.95	peak
5	13919.000	28.66	21.68	50.34	74.00	-23.66	peak
6	17703.000	26.56	24.09	50.65	74.00	-23.35	peak

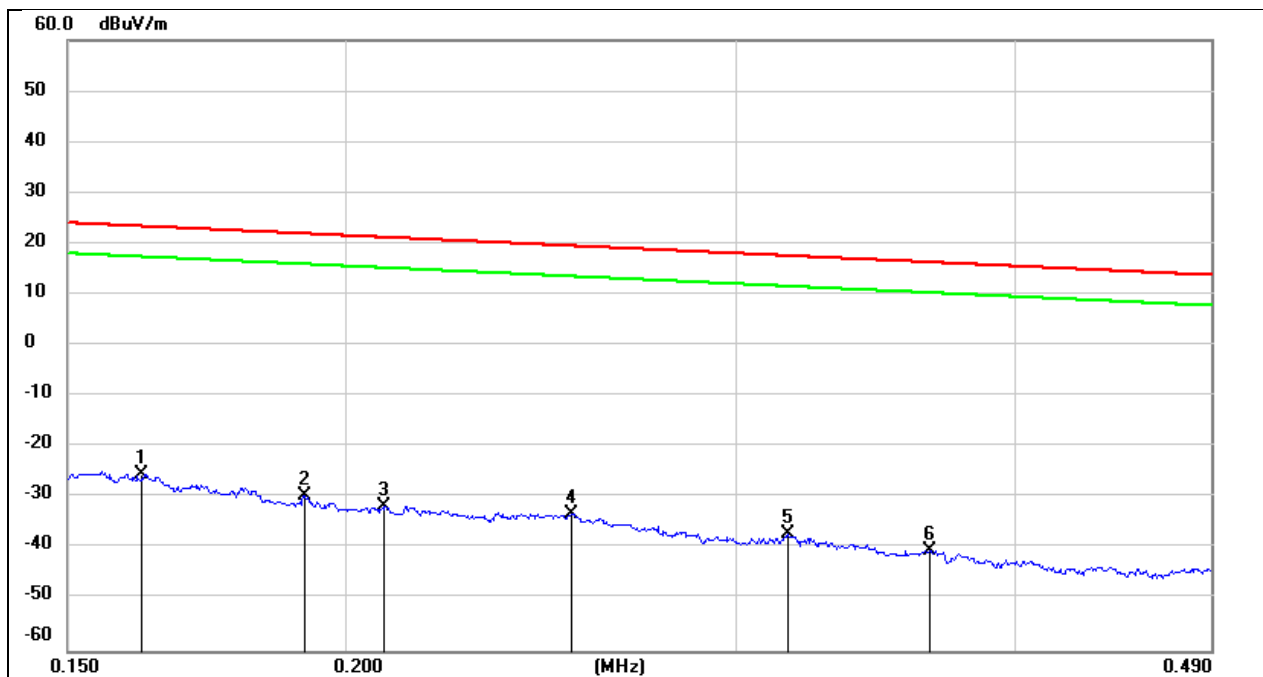
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	802.11a20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	7.2 VDC



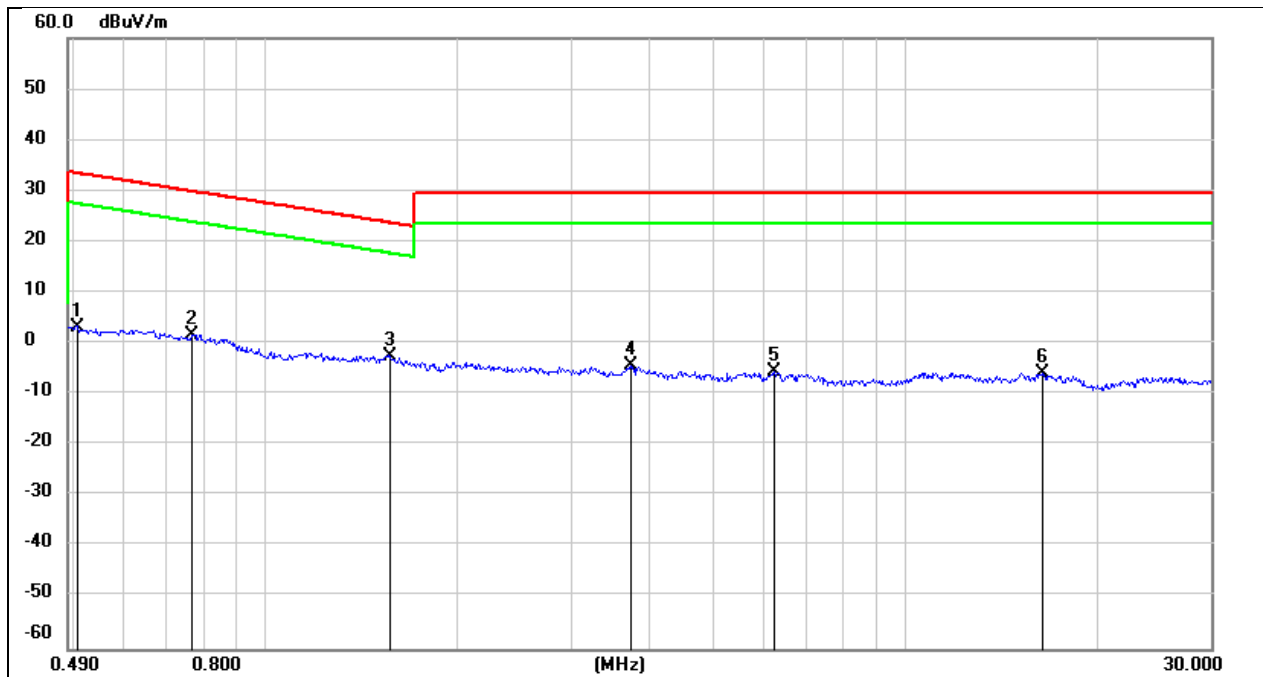
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0100	77.72	-101.40	-23.68	47.60	-71.28	peak
2	0.0114	76.38	-101.40	-25.02	46.46	-71.48	peak
3	0.0221	71.13	-101.35	-30.22	40.71	-70.93	peak
4	0.0279	69.17	-101.38	-32.21	38.69	-70.90	peak
5	0.0316	67.74	-101.40	-33.66	37.61	-71.27	peak
6	0.0675	62.64	-101.56	-38.92	31.02	-69.94	peak

Test Mode:	802.11a20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	7.2 VDC



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1621	76.42	-101.65	-25.23	23.41	-48.64	peak
2	0.1917	72.04	-101.70	-29.66	21.95	-51.61	peak
3	0.2081	70.08	-101.73	-31.65	21.23	-52.88	peak
4	0.2530	68.64	-101.80	-33.16	19.54	-52.70	peak
5	0.3163	64.70	-101.87	-37.17	17.60	-54.77	peak
6	0.3662	61.58	-101.93	-40.35	16.33	-56.68	peak

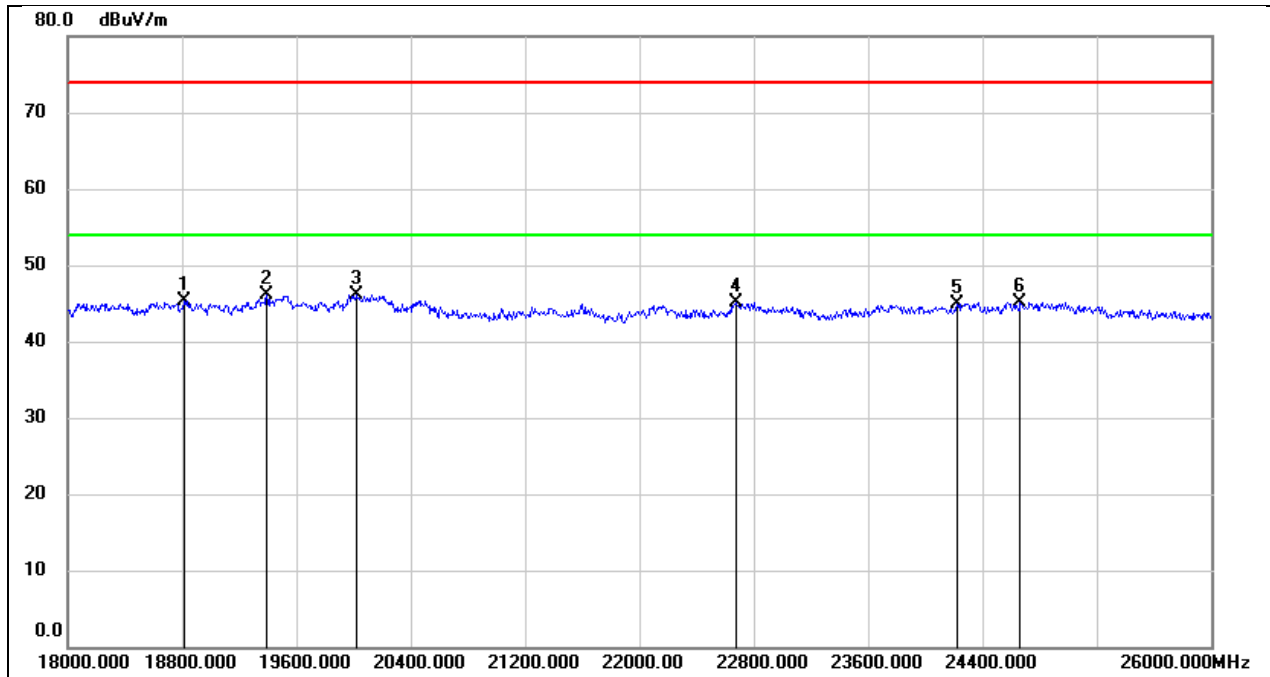
Test Mode:	802.11a20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	7.2 VDC



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5080	65.35	-62.07	3.28	33.49	-30.21	peak
2	0.7641	63.92	-62.12	1.80	29.94	-28.14	peak
3	1.5625	59.46	-62.02	-2.56	23.73	-26.29	peak
4	3.7100	57.20	-61.41	-4.21	29.54	-33.75	peak
5	6.2445	55.63	-61.32	-5.69	29.54	-35.23	peak
6	16.3959	55.17	-60.96	-5.79	29.54	-35.33	peak

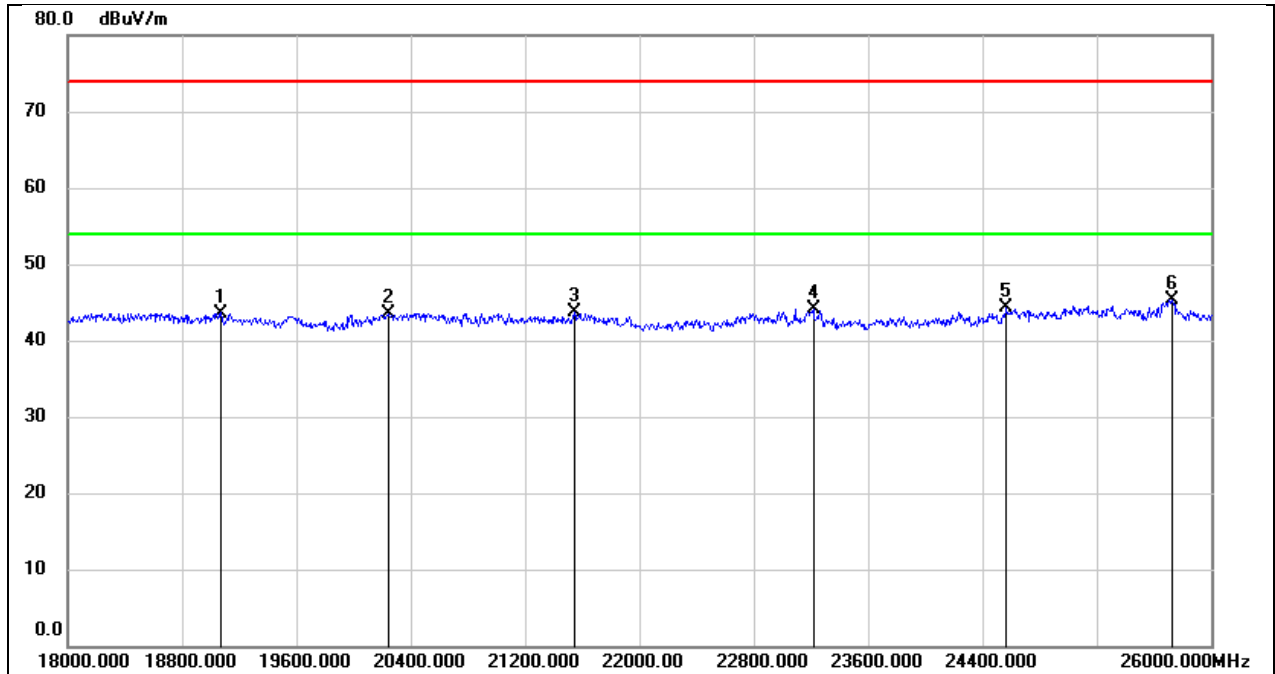
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	7.2 VDC



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18816.000	50.71	-5.38	45.33	74.00	-28.67	peak
2	19392.000	51.62	-5.57	46.05	74.00	-27.95	peak
3	20016.000	51.56	-5.47	46.09	74.00	-27.91	peak
4	22680.000	48.84	-3.74	45.10	74.00	-28.90	peak
5	24224.000	47.68	-2.83	44.85	74.00	-29.15	peak
6	24664.000	47.40	-2.33	45.07	74.00	-28.93	peak

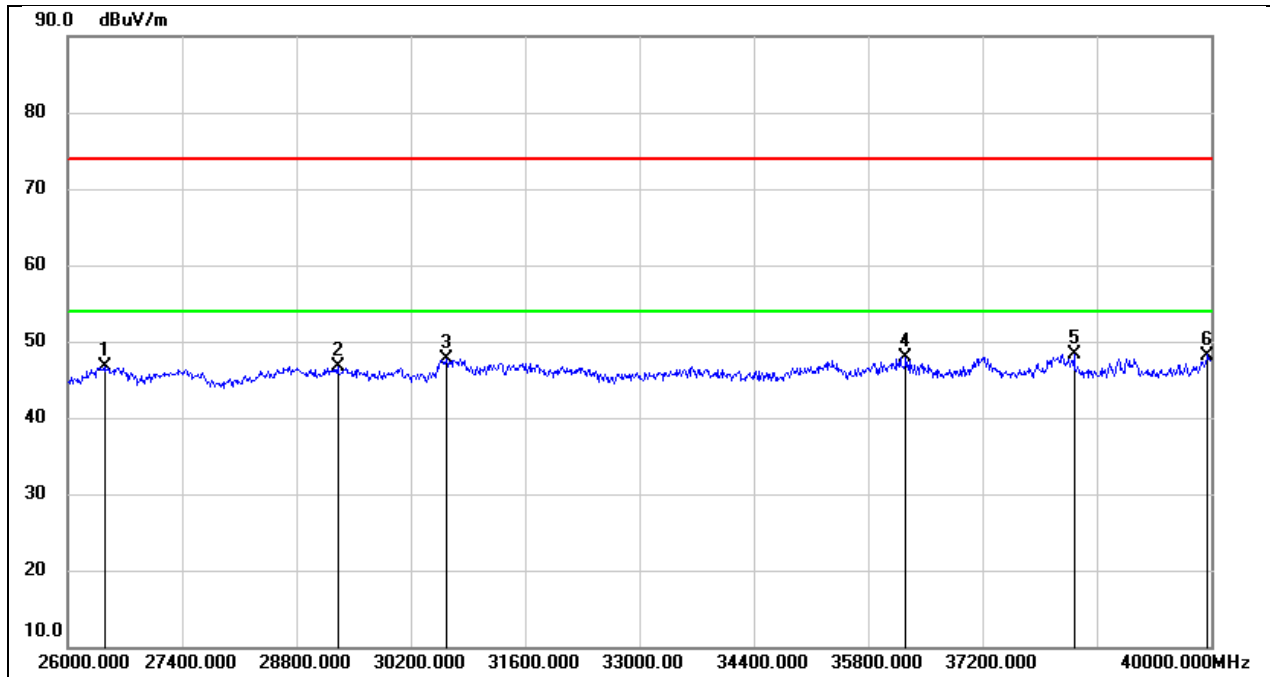
Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	7.2 VDC



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19072.000	48.91	-5.31	43.60	74.00	-30.40	peak
2	20248.000	49.06	-5.62	43.44	74.00	-30.56	peak
3	21544.000	48.26	-4.63	43.63	74.00	-30.37	peak
4	23216.000	47.51	-3.38	44.13	74.00	-29.87	peak
5	24568.000	46.60	-2.33	44.27	74.00	-29.73	peak
6	25728.000	46.11	-0.72	45.39	74.00	-28.61	peak

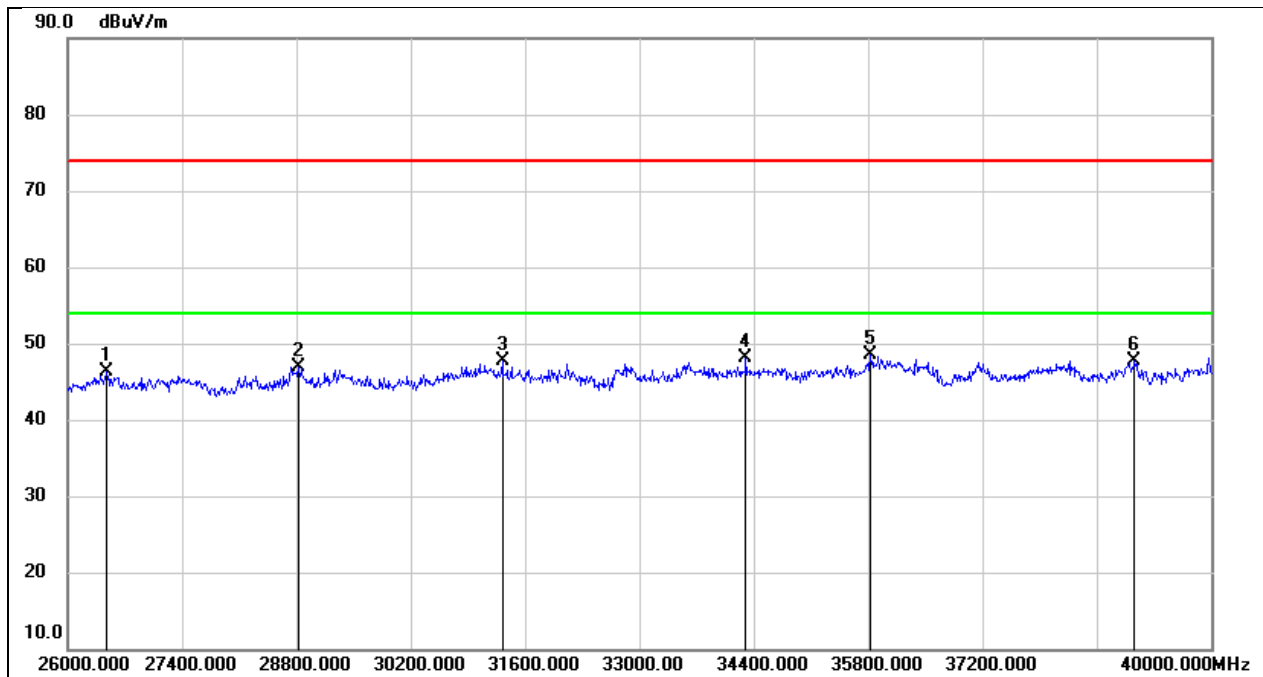
8.6. SPURIOUS EMISSIONS(26 GHZ~40 GHZ)

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	7.2 VDC



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26448.000	51.49	-4.85	46.64	74.00	-27.36	peak
2	29304.000	47.62	-0.97	46.65	74.00	-27.35	peak
3	30634.000	48.74	-1.05	47.69	74.00	-26.31	peak
4	36262.000	44.60	3.28	47.88	74.00	-26.12	peak
5	38320.000	44.56	3.77	48.33	74.00	-25.67	peak
6	39958.000	43.08	5.12	48.20	74.00	-25.80	peak

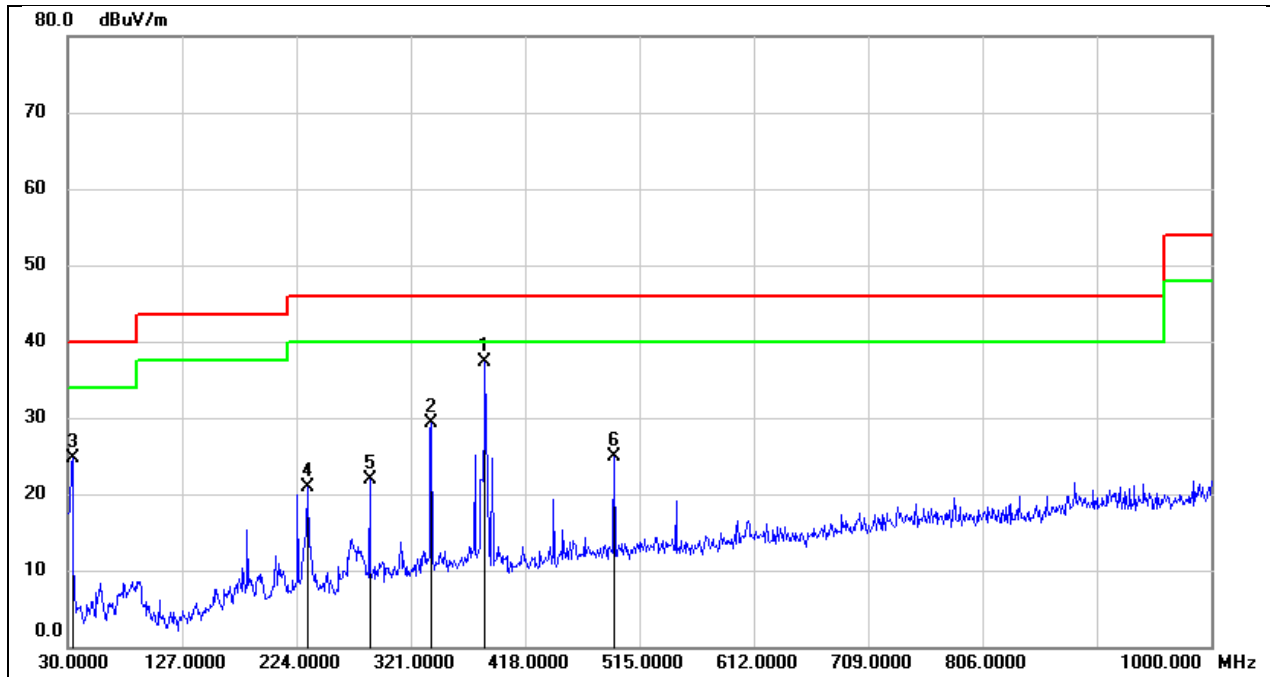
Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	7.2 VDC



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26476.000	51.03	-4.78	46.25	74.00	-27.75	peak
2	28828.000	47.63	-0.79	46.84	74.00	-27.16	peak
3	31320.000	48.61	-0.93	47.68	74.00	-26.32	peak
4	34302.000	46.95	1.10	48.05	74.00	-25.95	peak
5	35828.000	44.75	3.67	48.42	74.00	-25.58	peak
6	39062.000	43.48	4.30	47.78	74.00	-26.22	peak

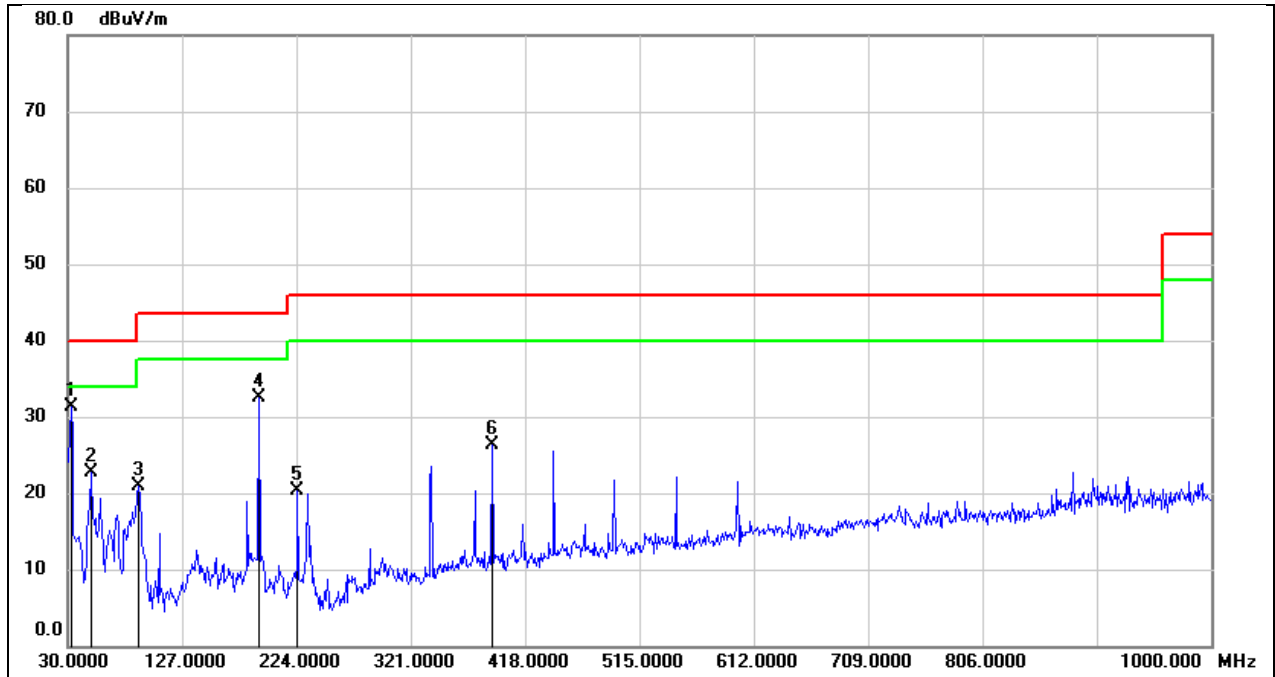
8.7. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	7.2 Vdc



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	384.0500	50.12	-12.87	37.25	46.00	-8.75	QP
2	338.4600	42.69	-13.44	29.25	46.00	-16.75	QP
3	33.8800	43.55	-18.84	24.71	40.00	-15.29	QP
4	233.7000	39.05	-18.12	20.93	46.00	-25.07	QP
5	286.0799	38.06	-16.16	21.90	46.00	-24.10	QP
6	493.6600	35.69	-10.83	24.86	46.00	-21.14	QP

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	7.2 Vdc



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.9100	50.00	-18.69	31.31	40.00	-8.69	QP
2	49.4000	43.21	-20.52	22.69	40.00	-17.31	QP
3	90.1400	43.07	-22.15	20.92	43.50	-22.58	QP
4	191.9900	49.15	-16.68	32.47	43.50	-11.03	QP
5	224.9700	38.03	-17.72	20.31	46.00	-25.69	QP
6	389.8700	39.28	-12.90	26.38	46.00	-19.62	QP

9. 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

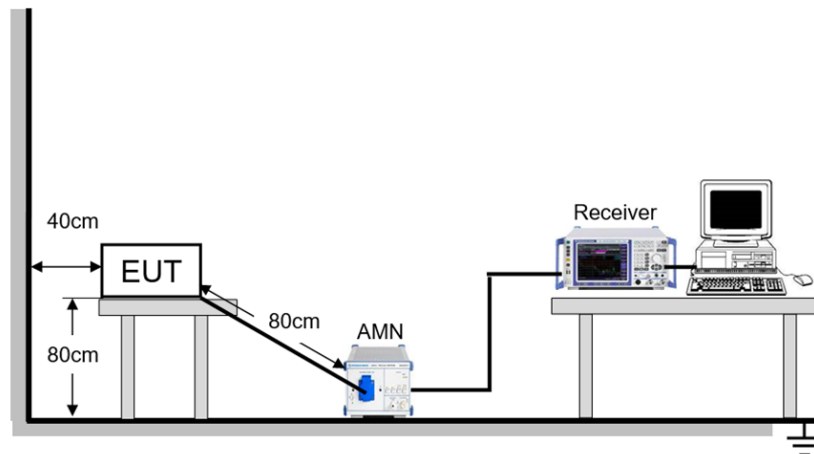
TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.

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

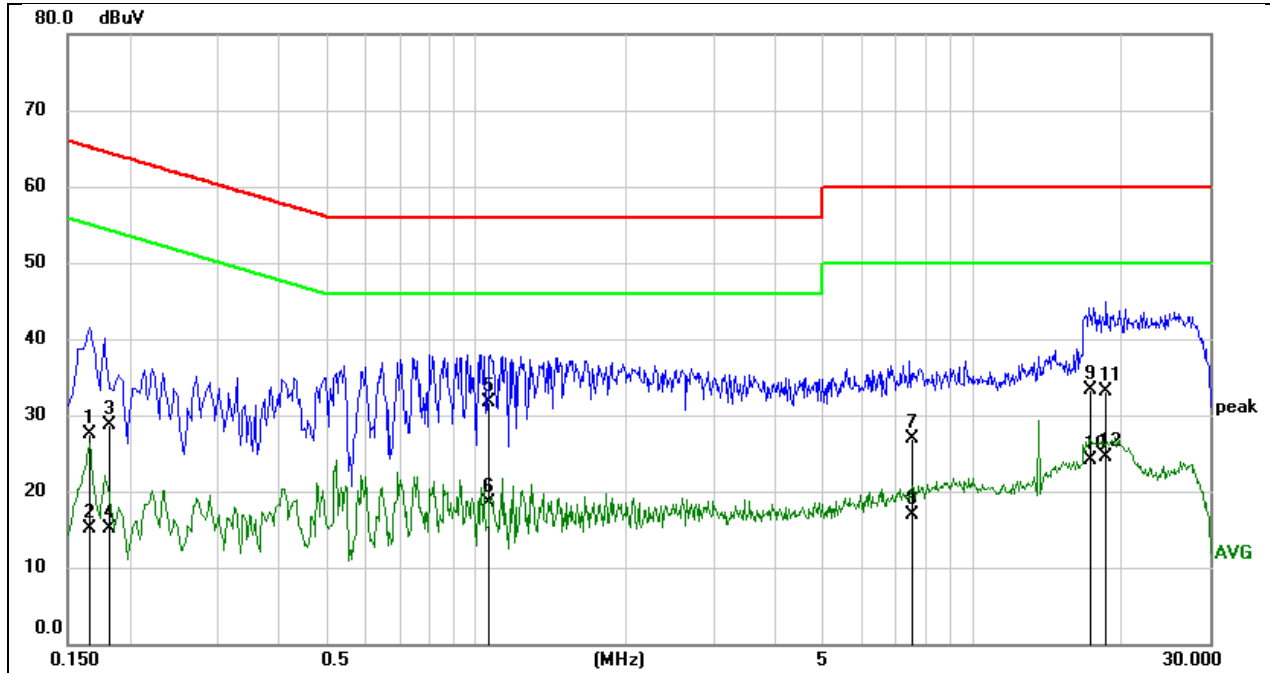
Temperature	22.8°C	Relative Humidity	66%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	October 9, 2023	Test By	Kebo Zhang
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TEST RESULTS

Test Mode:	802.11a	Frequency(MHz):	5180
Line:	Neutral		



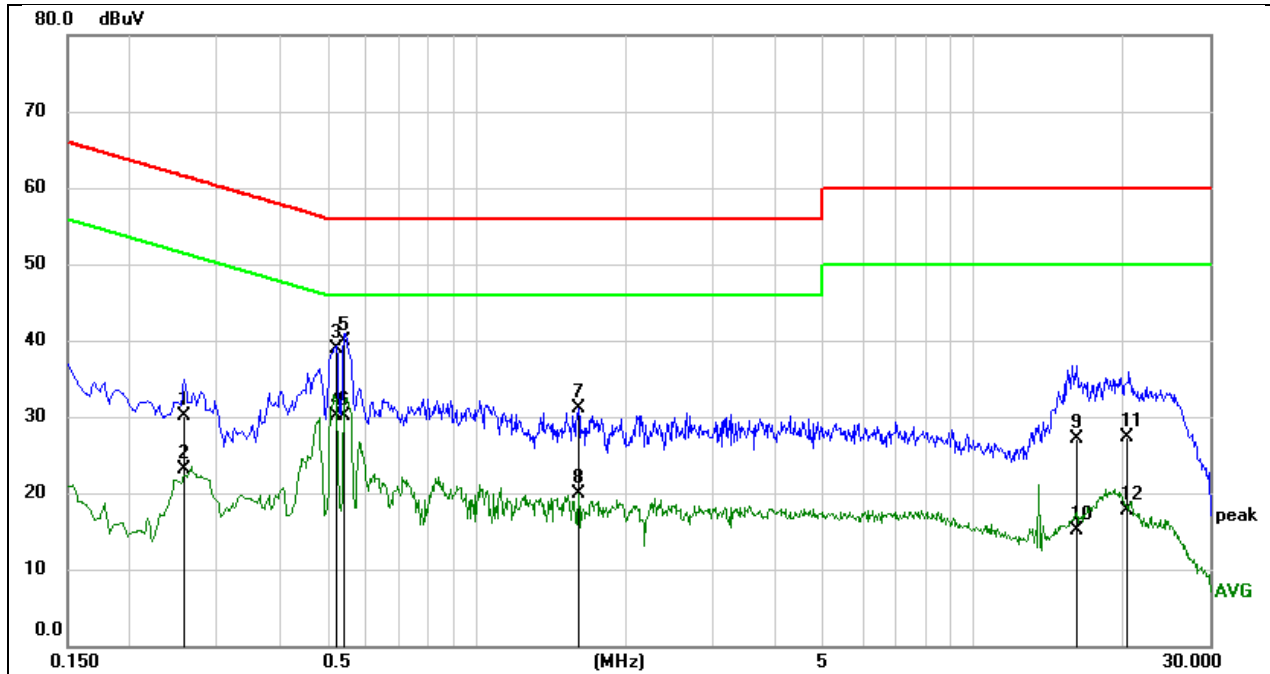
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1657	18.02	9.52	27.54	65.17	-37.63	QP
2	0.1657	5.56	9.52	15.08	55.17	-40.09	AVG
3	0.1826	19.16	9.56	28.72	64.37	-35.65	QP
4	0.1826	5.62	9.56	15.18	54.37	-39.19	AVG
5	1.0553	22.20	9.52	31.72	56.00	-24.28	QP
6	1.0553	8.93	9.52	18.45	46.00	-27.55	AVG
7	7.5460	17.34	9.62	26.96	60.00	-33.04	QP
8	7.5460	7.29	9.62	16.91	50.00	-33.09	AVG
9	17.2538	23.64	9.68	33.32	60.00	-26.68	QP
10	17.2538	14.48	9.68	24.16	50.00	-25.84	AVG
11	18.5382	23.35	9.72	33.07	60.00	-26.93	QP
12	18.5382	14.76	9.72	24.48	50.00	-25.52	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:	802.11a	Frequency(MHz):	5180
Line:	Line		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2577	20.44	9.59	30.03	61.51	-31.48	QP
2	0.2577	13.43	9.59	23.02	51.51	-28.49	AVG
3	0.5231	29.22	9.60	38.82	56.00	-17.18	QP
4	0.5231	20.54	9.60	30.14	46.00	-15.86	AVG
5	0.5426	30.27	9.60	39.87	56.00	-16.13	QP
6	0.5426	20.55	9.60	30.15	46.00	-15.85	AVG
7	1.6020	21.55	9.62	31.17	56.00	-24.83	QP
8	1.6020	10.23	9.62	19.85	46.00	-26.15	AVG
9	16.1376	17.44	9.75	27.19	60.00	-32.81	QP
10	16.1376	5.36	9.75	15.11	50.00	-34.89	AVG
11	20.5235	17.42	9.83	27.25	60.00	-32.75	QP
12	20.5235	7.85	9.83	17.68	50.00	-32.32	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.

10. 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 15.407(a)

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

11. TEST DATA

Appendix A: Duty Cycle

Mode	Antenna	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Final setting For VBW (kHz)
a	Ant1	1.394	1.437	0.9701	97.01	0.13	0.72	1
n20	Ant1	1.302	1.345	0.9680	96.80	0.14	0.77	1
n40	Ant1	0.65	0.693	0.9380	93.80	0.28	1.54	2
ac80	Ant1	0.326	0.368	0.8859	88.59	0.53	3.07	4

Test Mode	N1 (msec)	N2 (msec)	N3 (msec)	N3-N2 (msec)	N3-N1 (msec)
a	0.421	0.464	1.858	1.394	1.437
n20	1.194	1.237	2.539	1.302	1.345
n40	0.120	0.163	0.813	0.65	0.693
ac80	0.062	0.104	0.430	0.326	0.368

Note:

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

Where: x is Duty Cycle (Linear)

Where: T is On Time

On Time=N3-N2

Period=N3-N1

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.

