CFR 47 FCC PART 15 SUBPART E
ISED RSS-247 ISSUE 2

TEST REPORT

For

AXE5400 Whole Home Mesh Wi-Fi 6E System

MODEL NUMBER: Deco XE75 Pro

REPORT NUMBER: 4790853841-1-RF-2

ISSUE DATE: August 10, 2023

FCC ID: 2AXJ4XE75V3
IC: 26583-XE75V3

Prepared for

TP-Link Corporation Limited
Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong

Prepared by

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

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	August 10, 2023	Initial Issue	

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch   FORM NO: 10-SL-F0035

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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), RSS-247 Issue 2, Clause 6.2.1.2 RSS-Gen Clause 6.7	Pass
CONDUCTED OUTPUT POWER	KDB 789033 D02 v02r01 Section E.3.a (Method PM)	FCC 15.407 (a) RSS-247 Clause 6.2	Pass
POWER SPECTRAL DENSITY	KDB 789033 D02 v02r01 Section F	FCC 15.407 (a) RSS-247 Clause 6.2	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2.	FCC 15.207 RSS-GEN Clause 8.8	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 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	Pass
FREQUENCY STABILITY	ANSI C63.10-2013, Clause 6.8.	FCC 15.407 (g)	Pass
Antenna Requirement	N/A	FCC 47 CFR Part 15.203/ 15.407(a)(1) (2), RSS-Gen Issue 5, Clause 6.8	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><ISED RSS-247 ISSUE 2> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: TP-Link Corporation Limited

Address: Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong

Manufacturer Information
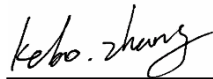
Company Name: TP-Link Corporation Limited

Address: Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong

EUT Information

EUT Name: AXE5400 Whole Home Mesh Wi-Fi 6E System

Model: Deco XE75 Pro

Brand: tp-link

Sample Received Date: May 15, 2023

Sample Status: Normal

Sample ID: 6093289

Date of Tested: May 16, 2023 to August 10, 2023
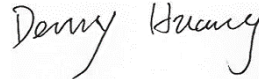
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART E ISED RSS-247 ISSUE 2	Pass

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART E
ISED RSS-247 ISSUE 2, ANSI C63.10-2013, CFR 47 FCC Part 2, KDB 789033 D02 v02r01,
RSS-GEN Issue 5, KDB414788 D01 Radiated Test Site v01, KDB 662911 D01 Multiple
Transmitter Output v02r01, KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02,
KDB 905462 D03 UNII clients without radar detection New Rules v01r02, KDB 905462 D04
Operational Modes for DFS Testing New Rules v01,KDB 905462 D06 802 11 Channel Plans New
Rules v02 and KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02.

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

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
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/PMN:	AXE5400 Whole Home Mesh Wi-Fi 6E System
Model:	Deco XE75 Pro
HVIN:	Deco XE75V3
Frequency Range:	5180 MHz to 5240 MHz(U-NII-1) 5260 MHz to 5320 MHz(U-NII-2A) Only 160MHz supported 5 745 MHz to 5 825 MHz(U-NII-3)
DFS Operational mode:	Master & Mesh
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) IEEE 802.11ax: OFDMA(1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Radio Technology:	IEEE802.11a/n HT20/n HT40/ ac VHT20/ac VHT40/ac VHT80/ac VHT160/ ax HE20/ax HE40/ax HE80/ax HE160
Normal Test Voltage:	DC 12 V via adapter

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=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				

5.3. MAXIMUM EIRP

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)	Maximum Average EIRP (dBm)
a	5180 ~ 5825	28.99	29.99
ac VHT20		29.17	30.17
ac VHT40		29.18	30.18
ac VHT80		27.00	28.00
ac VHT160		18.03	19.03
ax HE20		29.09	30.09
ax HE40		28.17	29.17
ax HE80		25.06	26.06
ax HE160		18.80	19.80

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
802.11ac VHT20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11ac VHT40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz
802.11ac VHT80	CH 42(Low Channel)	5210 MHz
802.11ax HE20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11ax HE40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz
802.11ax HE80	CH 42(Low Channel)	5210 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
802.11ac VHT20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11ac VHT40	CH 151(Low Channel), CH 159(High Channel)	5755MHz, 5795MHz
802.11ac VHT80	CH 155(Low Channel)	5775 MHz
802.11ax HE20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11ax HE40	CH 151(Low Channel), CH 159(High Channel)	5755MHz, 5795MHz
802.11ax HE80	CH 155(Low Channel)	5775 MHz

Straddle Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11ac VHT160	CH 50	5250 MHz
802.11ax HE160	CH 50	5250 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter	
Test Software	QSPR

For FCC		
Mode	Freq(MHz)	Tx power level(dBm)
		ANT4&ANT4
802.11a-CDD	5180	22
	5200	24
	5240	24
	5745	26
	5785	26
	5825	26
802.11AC 20M	5180	23
	5200	24
	5240	24
	5745	24
	5785	23
	5825	24
802.11AC 40M	5190	19
	5230	23
	5755	23
	5795	23
802.11AC 80M	5210	18
	5775	22
802.11AC 160M	5250	18
802.11AX 20M	5180	23
	5200	24
	5240	24
	5745	26
	5785	26
	5825	26
802.11AX 40M	5190	18
	5230	23
	5755	23
	5795	26
802.11AX 80M	5210	18
	5775	21.5
802.11ax 160M	5250	18

For ISED		
Mode	Freq(MHz)	Tx power level(dBm)
		ANT4&ANT4
802.11a-CDD	5180	12.5
	5200	12.5
	5240	12.5
	5745	26
	5785	26
	5825	26
802.11AC 20M	5180	13
	5200	13
	5240	13
	5745	24
	5785	23
	5825	24
802.11AC 40M	5190	16
	5230	16
	5755	23
	5795	23
802.11AC 80M	5210	16
	5775	22
802.11AC 160M	5250	18
802.11AX 20M	5180	13
	5200	13
	5240	13
	5745	26
	5785	26
	5825	26
802.11AX 40M	5190	16
	5230	16
	5755	23
	5795	26
802.11AX 80M	5210	18
	5775	21.5
802.11ax 160M	5250	18

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 CDD mode : 6 Mbps
802.11n HT20 CDD mode : MCS0
802.11n HT40 CDD mode : MCS0
802.11ac VHT20 CDD mode : MCS0
802.11ac VHT40 CDD mode : MCS0
802.11ac VHT80 CDD mode : MCS0
802.11ac VHT160 CDD mode : MCS0
802.11ax HE20 CDD mode : MCS0
802.11ax HE40 CDD mode : MCS0
802.11ax HE80 CDD mode : MCS0
802.11ax HE80 CDD mode : MCS0
802.11ax HE160 CDD mode : MCS0

All modes support CDD mode.

802.11n HT20/HT40 and 802.11ac VHT20/VHT40 were performed on the worst case (802.11ac VHT20/VHT40) mode and only the worst data was recorded in this report.

The EUT has 4 separate antennas which correspond to 4 separate antenna ports. Core 2 and Core 4 correspond to antenna 2 and antenna 4 respectively and they support WLAN 2.4G and RLAN 5G. Core 1 and Core 3 correspond to antenna 1 and antenna 3 respectively and they support RLAN 6G.

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

The EUT not support partial Rus and channel puncturing mode.

US and CA country codes changed the power table for U-NII band 1. Therefore U-NII-1 was tested to both powers. For other bands have the same power table. The CA country code also disabled any channels in the 5600-5650 MHz band.

| Sample ID: | 6093289-1 | For FCC full band and ISED UNII-2A& UNII-3 test |
| Sample ID: | 6093289-2 | For ISED UNII-1 test |

Simultaneously Transmission Conditions:

Support Technology		Support (YES/NO)
WLAN (2.4G)	WLAN (5G)	YES

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna No.	Frequency Band	Antenna Type	Max Antenna Gain (dBi)
2	5150-5850	Diople Antenna	1
4	5150-5850	Diople Antenna	1

The EUT support Cyclic Shift Diversity(CDD) mode.

MIMO output power port and MIMO PSD port summing were performed in accordance with KDB 662911 D01. For the CDD results the Directional Gain was calculated in accordance with the following mothed.

For output power measurements:
Directional gain= G_{ANT} + Array Gain = 1 dBi
G_{ANT} : equal to the gain of the antenna having the highest gain
Array Gain = 0 dB (i.e., no array gain) for N_{ANT} ≤ 4

For power spectral density (PSD) measurements:
Directional gain= G_{ANT} + Array Gain = 4.01 dBi
Array Gain = 10 log(N_{ANT}/N_{SS}) dB.
N_{ANT} : number of transmit antennas
N_{SS} : number of spatial streams, The worst case directional gain will occur when N_{SS} = 1

IEE Std. 802.11	Transmit and Receive Mode	Description
802.11a	☒2TX, 2RX	ANT 2 and ANT 4 can be used as transmitting/receiving antenna.
802.11n HT20	☒2TX, 2RX	ANT 2 and ANT 4 can be used as transmitting/receiving antenna.
802.11n HT40	☒2TX, 2RX	ANT 2 and ANT 4 can be used as transmitting/receiving antenna.
802.11ac VHT20	☒2TX, 2RX	ANT 2 and ANT 4 can be used as transmitting/receiving antenna.
802.11ac VHT40	☒2TX, 2RX	ANT 2 and ANT 4 can be used as transmitting/receiving antenna.
802.11ac VHT80	☒2TX, 2RX	ANT 2 and ANT 4 can be used as transmitting/receiving antenna.
802.11ac VHT160	☒2TX, 2RX	ANT 2 and ANT 4 can be used as transmitting/receiving antenna.
802.11ax HE20	☒2TX, 2RX	ANT 2 and ANT 4 can be used as transmitting/receiving antenna.
802.11ax HE40	☒2TX, 2RX	ANT 2 and ANT 4 can be used as transmitting/receiving antenna.
802.11ax HE80	☒2TX, 2RX	ANT 2 and ANT 4 can be used as transmitting/receiving antenna.
802.11ax HE160	☒2TX, 2RX	ANT 2 and ANT 4 can be used as transmitting/receiving antenna.
Note: The value of the antenna gain was declared by customer.		

5.8. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	ThinkPad	X230i	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	LAN1	RJ45	Unshielded	1.0 m	/

ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	I.T.E. POWER SUPPLY	tp-link	T12020-2B4	Input: AC 100-240 V, 50 / 60 Hz, 0.8 A Output: DC 12.0 V, 2 A

TEST SETUP

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

SETUP DIAGRAM FOR TESTS
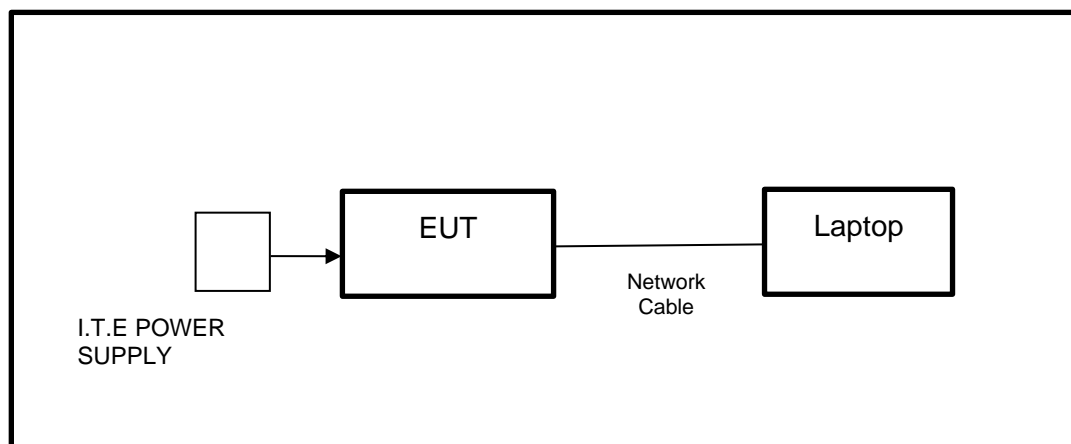
6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Power sensor, Power Meter	R&S	OSP120	100921	Mar.31,2023	Mar.30,2024
Vector Signal Generator	R&S	SMBV100A	261637	Oct.17, 2022	Oct.16, 2023
Signal Generator	R&S	SMB100A	178553	Oct.17, 2022	Oct.16, 2023
Signal Analyzer	R&S	FSV40	101118	Oct.17, 2022	Oct.16, 2023
Software					
Description		Manufacturer		Name	Version
For R&S TS 8997 Test System		Rohde & Schwarz		EMC 32	10.60.10
Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.17, 2022	Oct.16, 2023
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.28, 2022	Sep.27, 2023
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Oct.17, 2022	Oct.16, 2023
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Oct.17, 2022	Oct.16, 2023
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Oct.17, 2022	Oct.16, 2023
DC power supply	Keysight	E3642A	MY55159130	Oct.17, 2022	Oct.16, 2023
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Oct.17, 2022	Oct.16, 2023
Attenuator	Aglient	8495B	2814a12853	Oct.18, 2022	Oct.17, 2023
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.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Oct.17, 2022	Oct.16, 2023
Two-Line V-Network	R&S	ENV216	101983	Oct.17, 2022	Oct.16, 2023
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.17, 2022	Oct.16, 2023
Software					
Description			Manufacturer	Name	Version
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.17, 2022	Oct.16, 2023
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
Preamplifier	HP	8447D	2944A09099	Oct.17, 2022	Oct.16, 2023
EMI Measurement Receiver	R&S	ESR26	101377	Oct.17, 2022	Oct.16, 2023
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.17, 2022	Oct.16, 2023
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.17, 2022	Oct.16, 2023
Preamplifier	TDK	PA-02-3	TRS-308-00002	Oct.17, 2022	Oct.16, 2023
Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001-3000	TRS-302-00050	Oct.17, 2022	Oct.16, 2023
Preamplifier	Mini-Circuits	ZX60-83LN-S+	SUP01202035	Oct.17, 2022	Oct.16, 2023
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Oct.17, 2022	Oct.16, 2023
Highpass Filter	Wainwright	WHKX10-5850-6500-1800-40SS	4	Oct.17, 2022	Oct.16, 2023
Band Reject Filter	Wainwright	WRCJV12-5695-5725-5850-5880-40SS	4	Oct.17, 2022	Oct.16, 2023

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Band Reject Filter	Wainwright	WRCJV20-5120-5150-5350-5380-60SS	2	Oct.17, 2022	Oct.16, 2023
Band Reject Filter	Wainwright	WRCJV20-5440-5470-5725-5755-60SS	1	Oct.17, 2022	Oct.16, 2023
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Oct.17, 2022	Oct.16, 2023
Band Reject Filter	Wainwright	WRCD5-1879-1879.85-1880.15-1881-40SS	1	Oct.17, 2022	Oct.16, 2023
Notch Filter	Wainwright	WHJ10-882-980-7000-40SS	1	Oct.17, 2022	Oct.16, 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.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.22, 2022	Oct.21, 2023
Barometer	Yiyi	Baro	N/A	Oct.24, 2022	Oct.23, 2023
Attenuator	Agilent	8495B	2814a12853	Oct.18, 2022	Oct.17, 2023

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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 ≥ EBW if possible; otherwise, set RBW to the largest available value. Set VBW ≥ 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 ≤ 16.7 microseconds.)

TEST SETUP
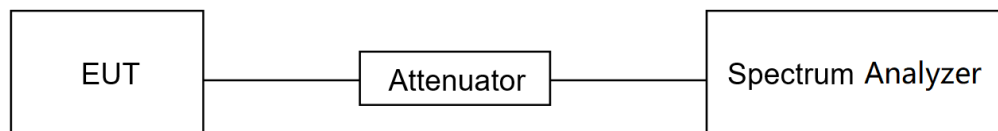
TEST ENVIRONMENT

Temperature	25.7℃	Relative Humidity	63.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

TEST DATE / ENGINEER

Test Date	May 27, 2023	Test By	Johnson Liu

TEST RESULTS

Please refer to section "Test Data" - Appendix G

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

LIMITS

CFR 47 FCC Part15, Subpart E ISED RSS-247 ISSUE 2		
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 (For FCC) 5470 ~ 5600 (For ISED) 5650 ~ 5725 (For ISED)
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 (For ISED)

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: ≥ 3*RBW For 26 dB Bandwidth: >3*RBW For 99 % Bandwidth: >3*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.

Calculation for 99 % Bandwidth of UNII-2C and UNII-3 Straddle Channel:

For Example: Fundamental Frequency: 5720 MHz

> 99 % OBW: 21.00 MHz

> Turning Frequency: 5725 MHz

> 99 % Bandwidth of UNII-2C Band Portion = (5725-(5720-(21.00/2)) = 15.50 MHz

99 % Bandwidth of UNII-3 Band Portion = (5720+(21.00/2)-5725) = 5.50 MHz

Calculation for 26 dB Bandwidth of UNII-2C Straddle Channel:

For Example: Fundamental frequency: 5720 MHz

26 dB BW: 20.00 MHz

FL: 5710.16 MHz

FH: 5730.16 MHz

Turning Frequency: 5725 MHz

26 dB Bandwidth of UNII-2C Band Portion = 5725-5710.16=14.84 MHz

Calculation for 6dB Bandwidth of UNII-3 Straddle Channel:

For Example: Fundamental frequency: 5720 MHz

6 dB BW: 16.44 MHz

FL: 5711.76 MHz

FH: 5728.2 MHz

Turning Frequency: 5725 MHz

6 dB Bandwidth of UNII-3 band Portion = 5728.2-5725=3.2 MHz

TEST SETUP
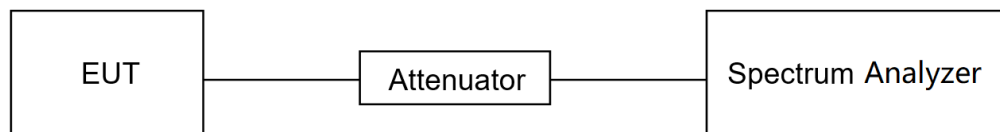
```
┌─────────┐         ┌────────────┐         ┌──────────────────┐
│         │         │            │         │                  │
│   EUT   │─────────│ Attenuator │─────────│ Spectrum Analyzer│
│         │         │            │         │                  │
└─────────┘         └────────────┘         └──────────────────┘
```

TEST ENVIRONMENT

Temperature	25.7℃	Relative Humidity	63.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

TEST DATE / ENGINEER

Test Date	May 27, 2023	Test By	Johnson Liu

TEST RESULTS

Please refer to section "Test Data" - Appendix A&B&C

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

ISED RSS-247 ISSUE 2		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power or e.i.r.p.	The maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or $10 + 10 \log_{10}B$, dBm, whichever power is less. B is the 99 % emission bandwidth in megahertz.	5150 ~ 5250
	a. The maximum conducted output power shall not exceed 250 mW (24 dBm) or $11 + 10 \log_{10}B$ dBm, whichever is less. b. The maximum e.i.r.p. shall not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10}B$ dBm, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.	5250 ~ 5350 5470 ~ 5600 5650 ~ 5725
	Shall not exceed 1 Watt (30 dBm). The e.i.r.p. shall not exceed 4 W	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 SA-2 (trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction.):
(a) Measure the duty cycle D of the transmitter output signal.
(b) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal.

(c) Set RBW = 1 MHz.

(d) Set VBW ⩾ 3 MHz.

(e) Number of points in sweep ⩾ [2 × span / RBW]. (This gives bin-to-bin spacing ⩽ RBW / 2, so that narrowband signals are not lost between frequency bins.)

(f) Sweep time = auto.

(g) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

(h) Do not use sweep triggering. Allow the sweep to "free run."

(i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.

j) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

k) Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add [10 log (1 / 0.25)] = 6 dB if the duty cycle is 25%.

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:

a. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.

b. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.

c. 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 %).

Note: Method SA-2 was used for straddle channel output power test, and Method PM was used for testing rest channels

TEST SETUP
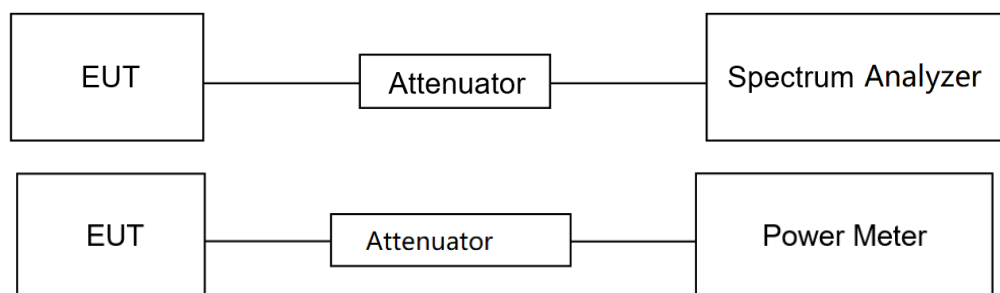
TEST ENVIRONMENT

Temperature	25.7℃	Relative Humidity	63.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

TEST DATE / ENGINEER

Test Date	May 27, 2023	Test By	Johnson Liu

TEST RESULTS

Please refer to section "Test Data" - Appendix D

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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

ISED RSS-247 ISSUE 2		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.	5150 ~ 5250
	The power spectral density shall not exceed 11 dBm inany 1.0 MHz band.	5250 ~ 5350 5470 ~ 5600 5650 ~ 5725
	30 dBm / 500 kHz	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 analyser 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	≥3 × 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	≥3 × 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
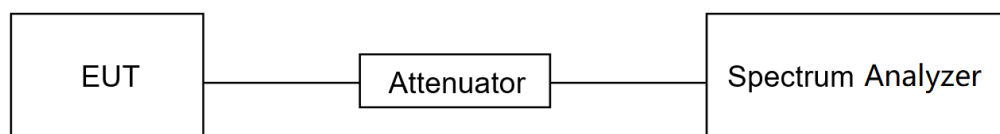
TEST ENVIRONMENT

Temperature	25.7℃	Relative Humidity	63.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

TEST DATE / ENGINEER

Test Date	May 27, 2023	Test By	Johnson Liu

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 0 °C ~ 40 °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 analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	10 kHz
VBW	≥3 × 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, 5minutes, 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): 0 °C
		T_H (High Temperature): 40 °C
Supply Voltage	V_N (Normal Voltage): AC 120 V, 60 Hz	V_L (Low Voltage): AC102 V
		V_H (High Voltage): AC 138 V

TEST SETUP
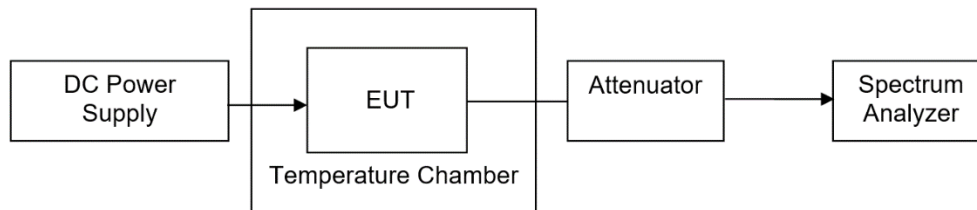
```
┌──────────────┐     ┌─────────────────────────┐     ┌────────────┐     ┌────────────┐
│  DC Power    │     │      ┌──────────┐        │     │            │     │  Spectrum  │
│  Supply      │────▶│      │   EUT    │        │─────│ Attenuator │────▶│  Analyzer  │
│              │     │      └──────────┘        │     │            │     │            │
└──────────────┘     │   Temperature Chamber    │     └────────────┘     └────────────┘
                     └─────────────────────────┘
```

TEST ENVIRONMENT

Temperature	25.7℃	Relative Humidity	63.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

TEST DATE / ENGINEER

Test Date	May 27, 2023	Test By	Johnson Liu

TEST RESULTS

Please refer to section "Test Data" - Appendix F

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8. RADIATED TEST RESULTS

LIMITS

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

Refer to ISED RSS-GEN Clause 8.9, Clause 8.10 and ISED RSS-247 6.2.

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

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) (µA/m)	Measurement distance (m)
9 - 490 kHz[Note 1]	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands refer to ISED RSS-GEN Clause 8.10

Table 7 – Restricted frequency bands[Note 1]		
MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 – 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 – 8500	
108 – 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

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

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

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

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.

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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 analyser

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 analyser

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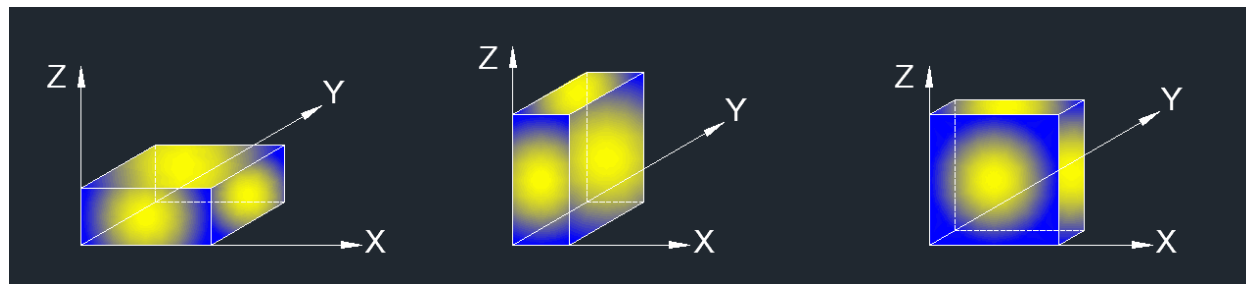
Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

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

For Radiate Spurious emission 1GHz-7GHz:
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the Peak values are less than the Average limit of 54 dBuV/m, the Average result is deemed to comply with Average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
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 -27dBm/MHz (68.2dBuV/m) limit.
9. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 7GHz-18GHz:
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the Peak values are less than the Average limit of 54 dBuV/m, the Average result is deemed to comply with Average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
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 -27dBm/MHz (68.2dBuV/m) limit.
9. All modes, channels and antennas have been tested, only the worst data was recorded in the report.
10. *-indicates frequency is out of the restricted bands. They comply with the -27dBm/MHz (68.2dBuV/m) limit.

For Radiate Spurious emission 9kHz-30MHz:

Note:

1. Measurement = Reading Level + Correct Factor

(dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).

2. If the Peak values are less than the QP limit, the QP result is deemed to comply with QP limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 18GHz-26GHz:

Note:

1. Measurement = Reading Level + Correct Factor.

2. If the Peak values are less than the Average limit of 54 dBuV/m, the Average result is deemed to comply with Average limit.

3. Peak: Peak detector.

4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 26GHz-40GHz:

Note:

1. Measurement = Reading Level + Correct Factor.

2. If the Peak values are less than the Average limit of 54 dBuV/m, the Average result is deemed to comply with Average limit.

3. Peak: Peak detector.

4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 30MHz-1GHz:

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. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

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TEST SETUP

Below 30 MHz
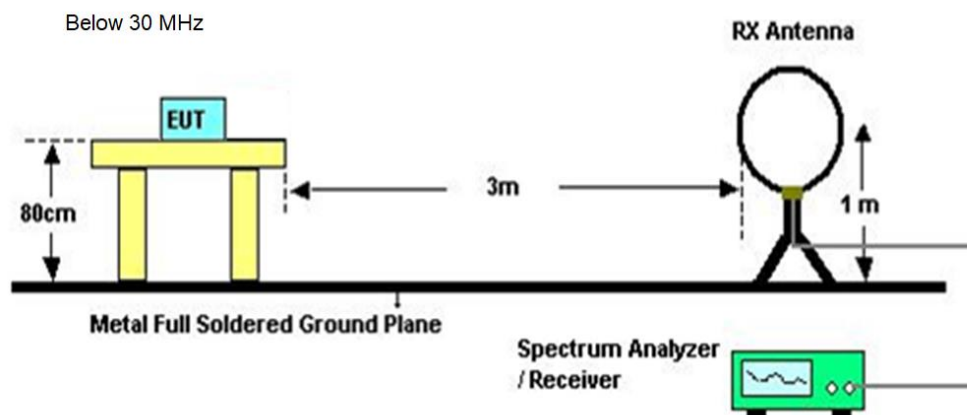
Below 1 GHz and above 30 MHz
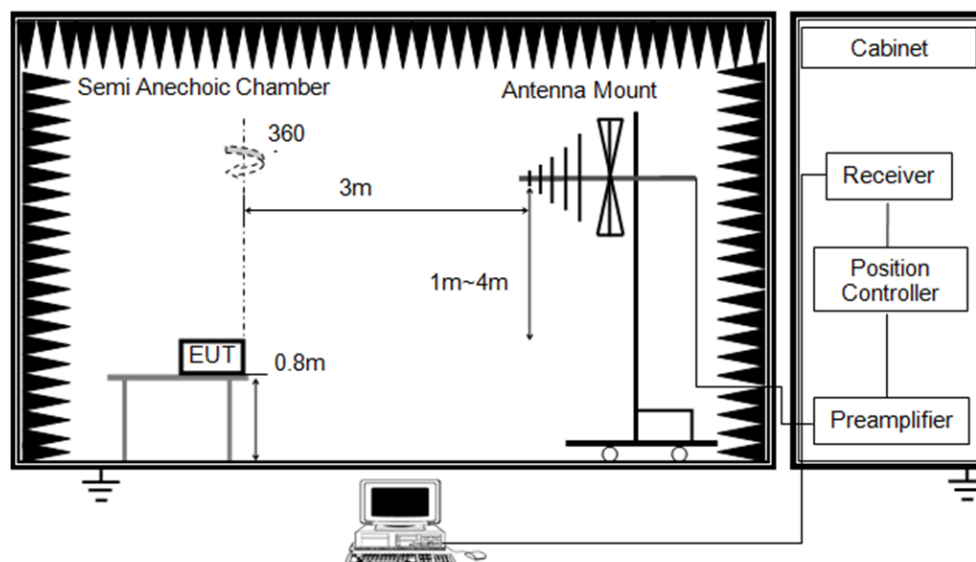
Above 1 GHz
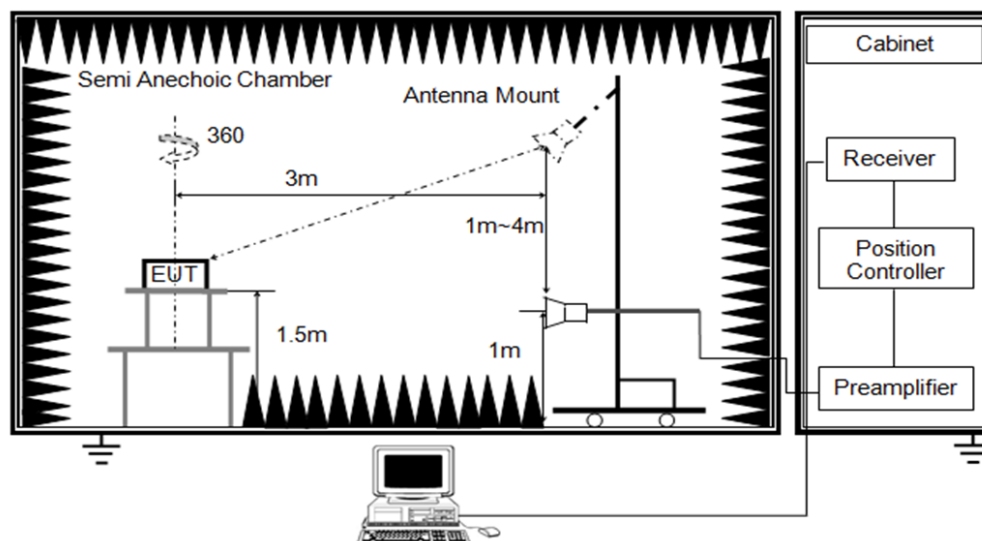
TEST ENVIRONMENT

Temperature	24.5℃	Relative Humidity	63%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

TEST DATE / ENGINEER

Test Date	June 16, 2023	Test By	Rex Huang

TEST RESULTS

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8.1. RESTRICTED BANDEDGE

Test Mode:	802.11a 20 PK	Channel:	5180
Polarity:	Vertical	Test Voltage:	DC 12 V
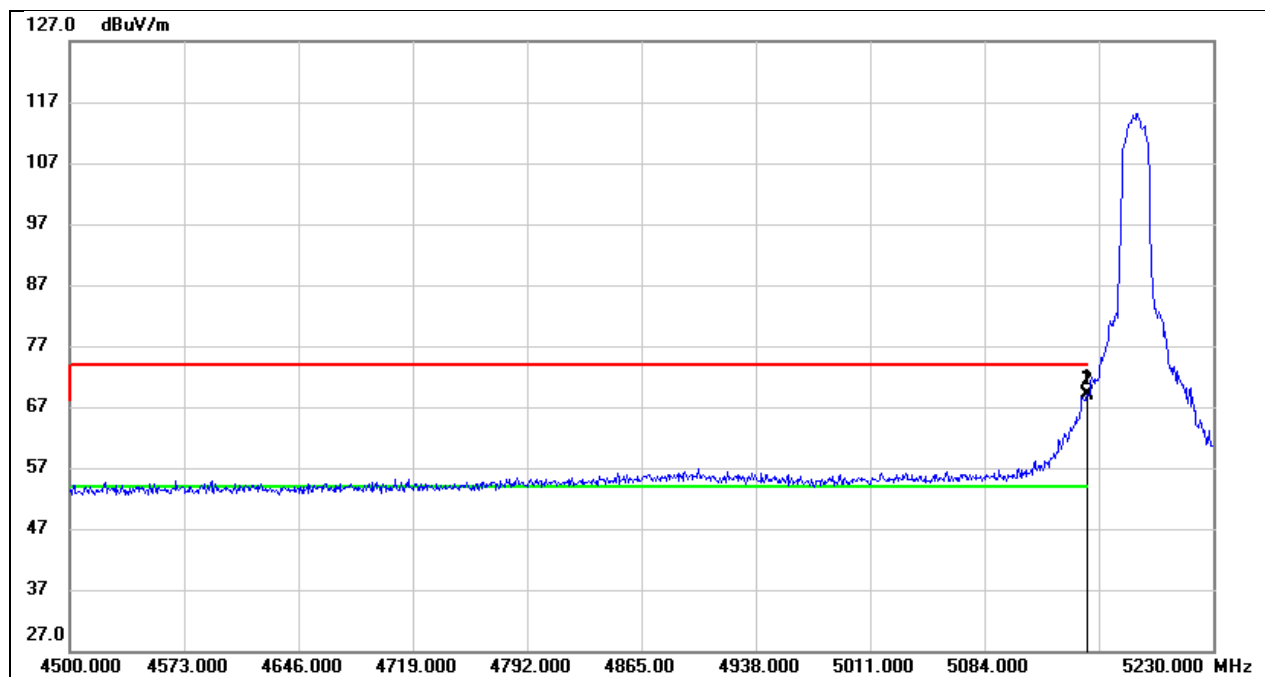
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5149.700	28.88	40.28	69.16	74.00	-4.84	peak
2	5150.000	28.72	40.27	68.99	74.00	-5.01	peak

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Test Mode:	802.11a 20 AV	Channel:	5180
Polarity:	Vertical	Test Voltage:	DC 12 V
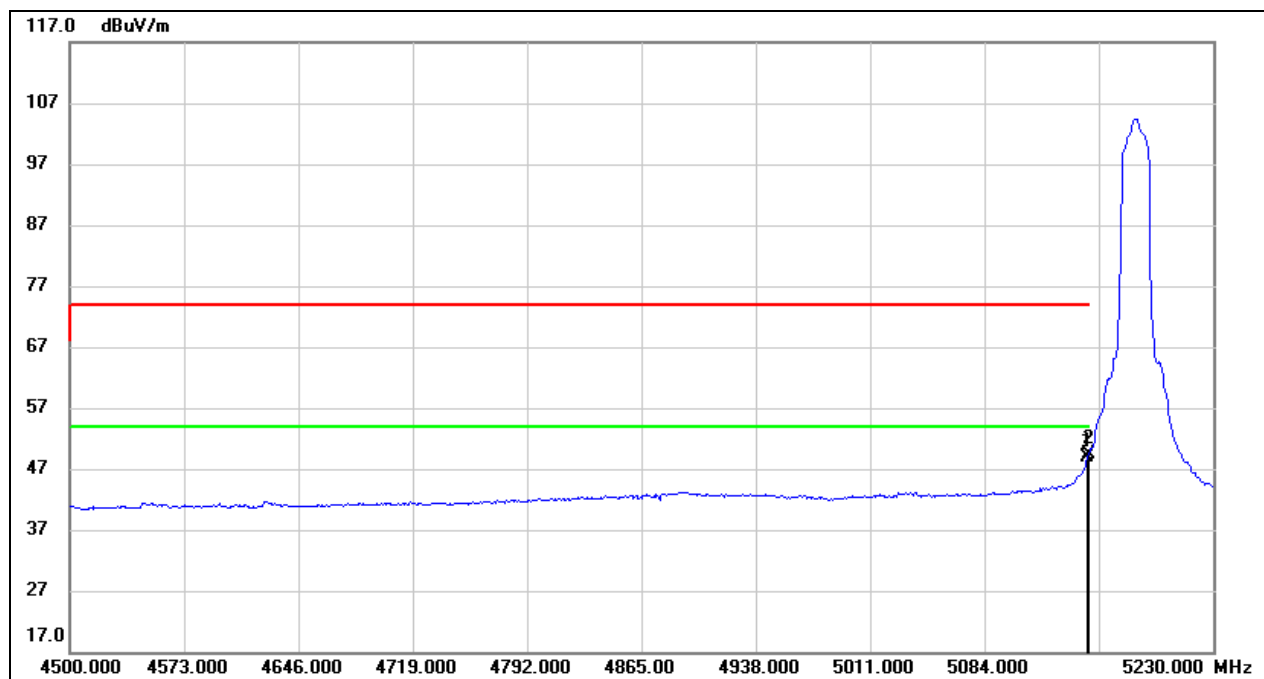
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5149.700	8.55	40.28	48.83	54.00	-5.17	AVG
2	5150.000	9.00	40.27	49.27	54.00	-4.73	AVG

Test Mode:	802.11a 20 PK	Channel:	5240
Polarity:	Vertical	Test Voltage:	DC 12 V
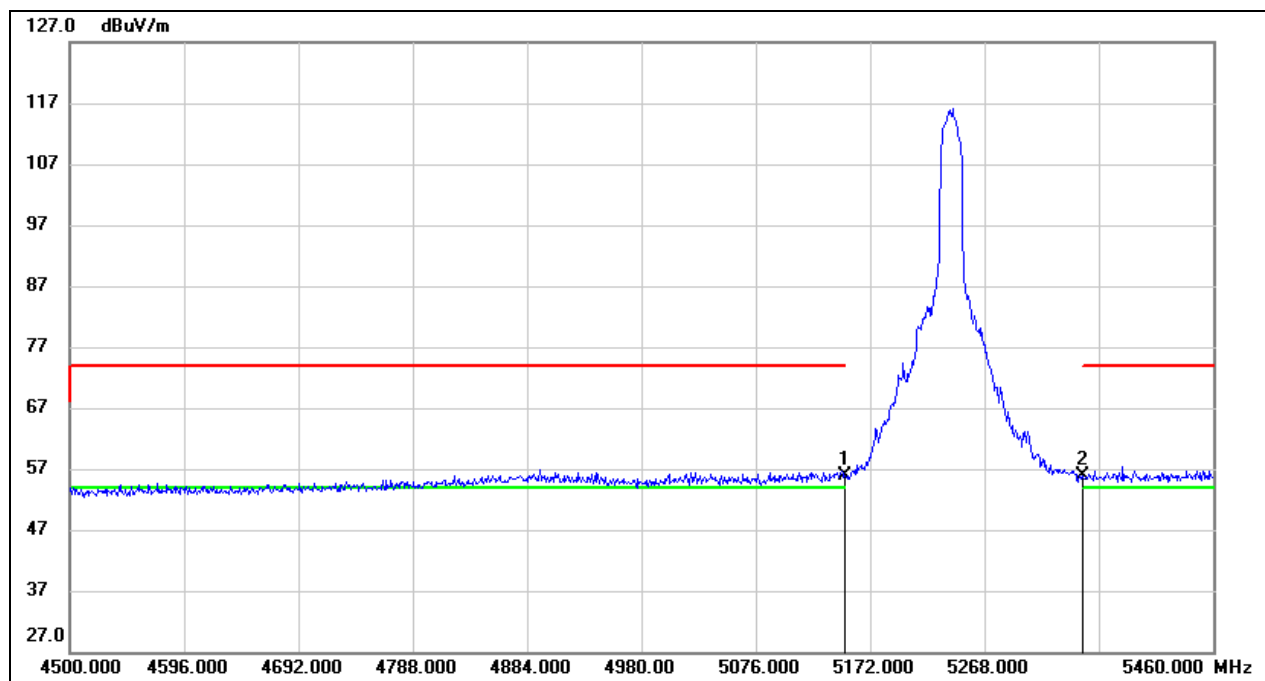
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.57	40.27	55.84	74.00	-18.16	peak
2	5350.000	15.33	40.49	55.82	74.00	-18.18	peak

Test Mode:	802.11a 20 AV	Channel:	5240
Polarity:	Vertical	Test Voltage:	DC 12 V
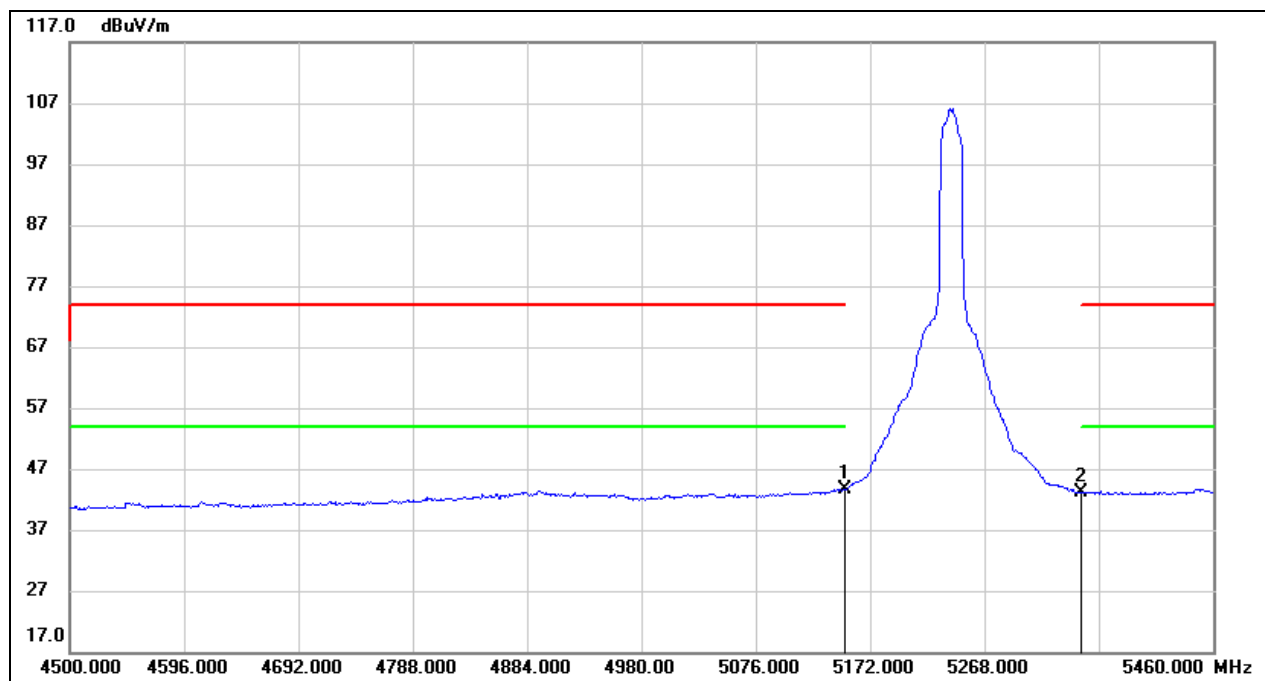
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.45	40.27	43.72	54.00	-10.28	AVG
2	5350.000	2.58	40.49	43.07	54.00	-10.93	AVG

Test Mode:	802.11a 20 PK	Channel:	5745
Polarity:	Vertical	Test Voltage:	DC 12 V
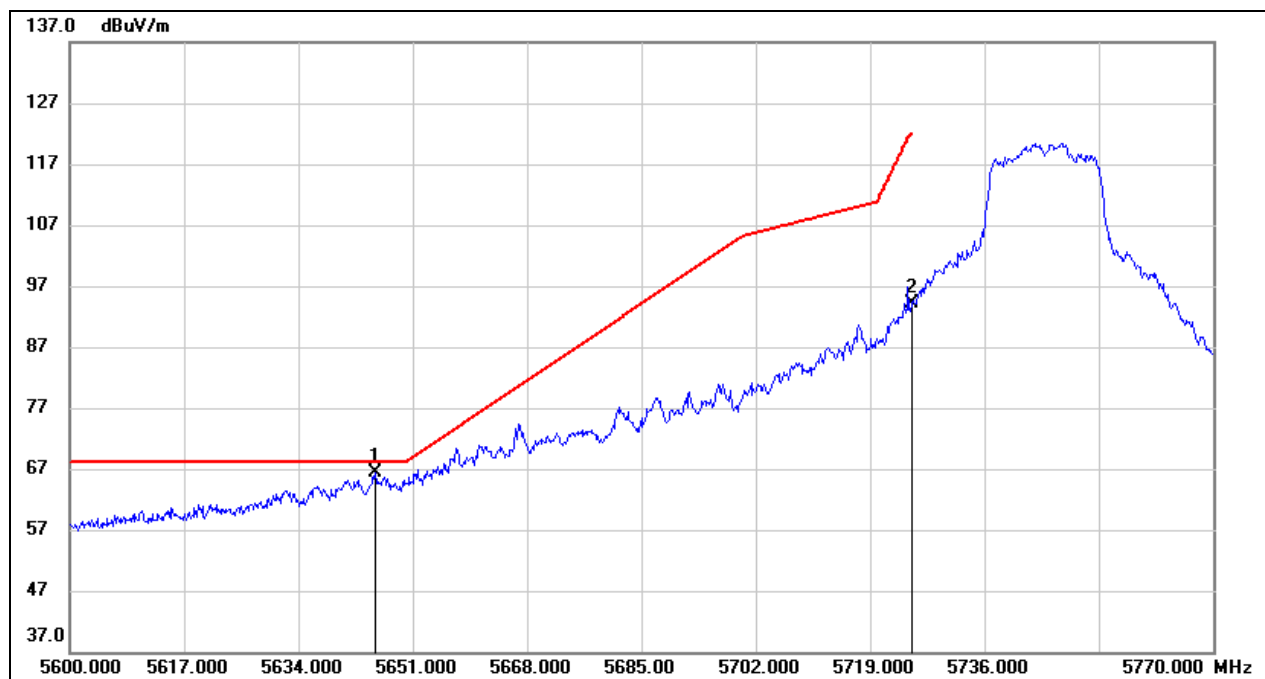
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5645.390	25.39	41.05	66.44	68.20	-1.76	peak
2	5725.000	52.94	41.27	94.21	122.20	-27.99	peak

Test Mode:	802.11a 20 PK	Channel:	5825
Polarity:	Vertical	Test Voltage:	DC 12 V
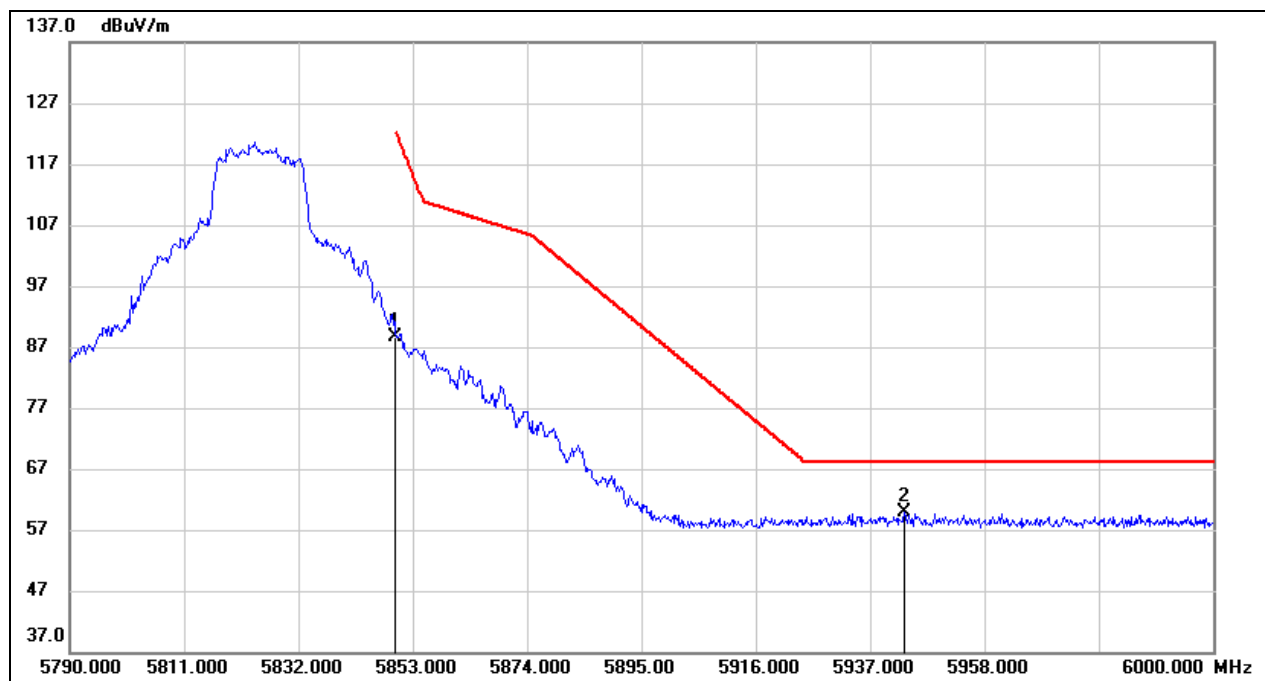
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	46.91	41.60	88.51	122.20	-33.69	peak
2	5943.300	18.03	41.84	59.87	68.20	-8.33	peak

Test Mode:	802.11ac VHT20 PK	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	DC 12 V
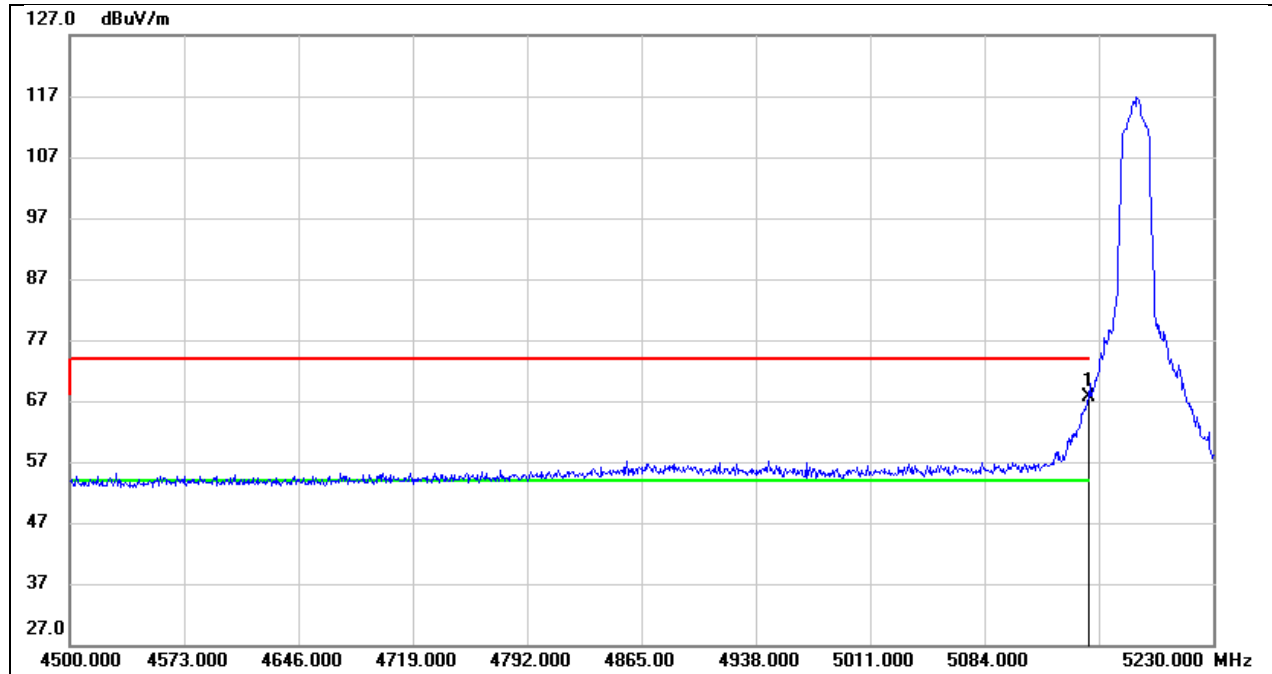
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5150.000	27.45	40.27	67.72	74.00	-6.28	peak

Test Mode:	802.11ac VHT20 AV	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	DC 12 V
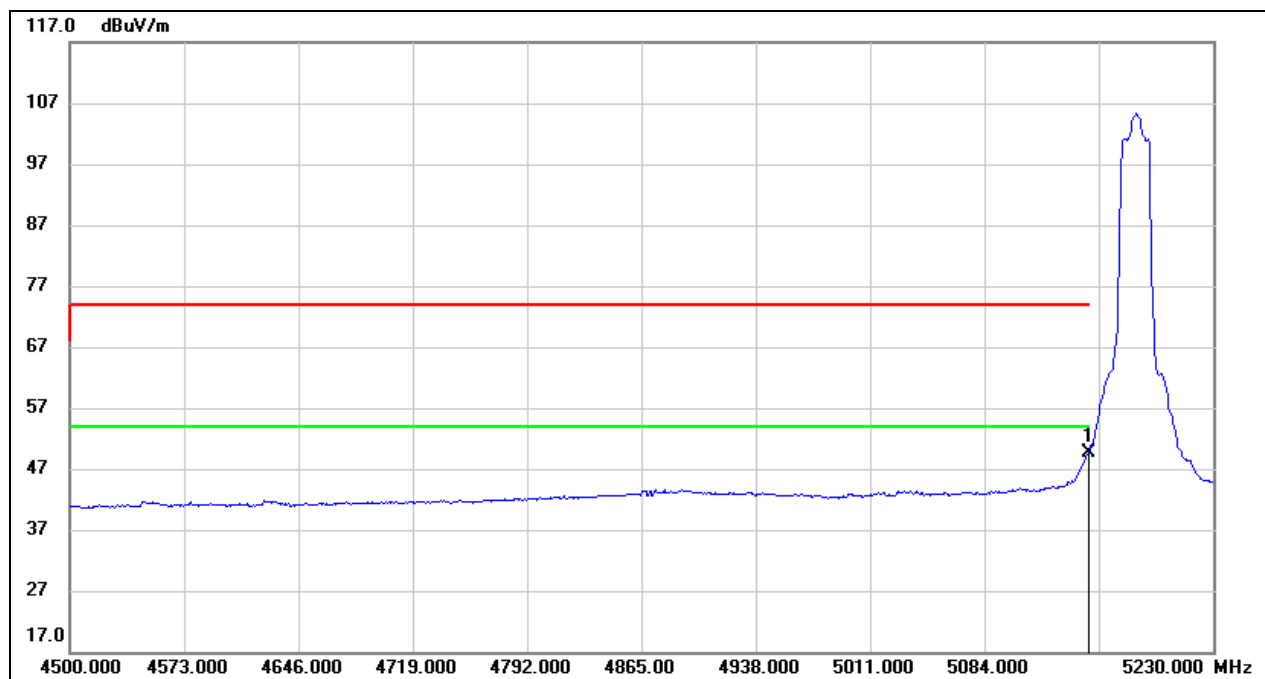
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	9.34	40.27	49.61	54.00	-4.39	AVG

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Test Mode:	802.11ac VHT20 PK	Frequency(MHz):	5240
Polarity:	Vertical	Test Voltage:	DC 12 V
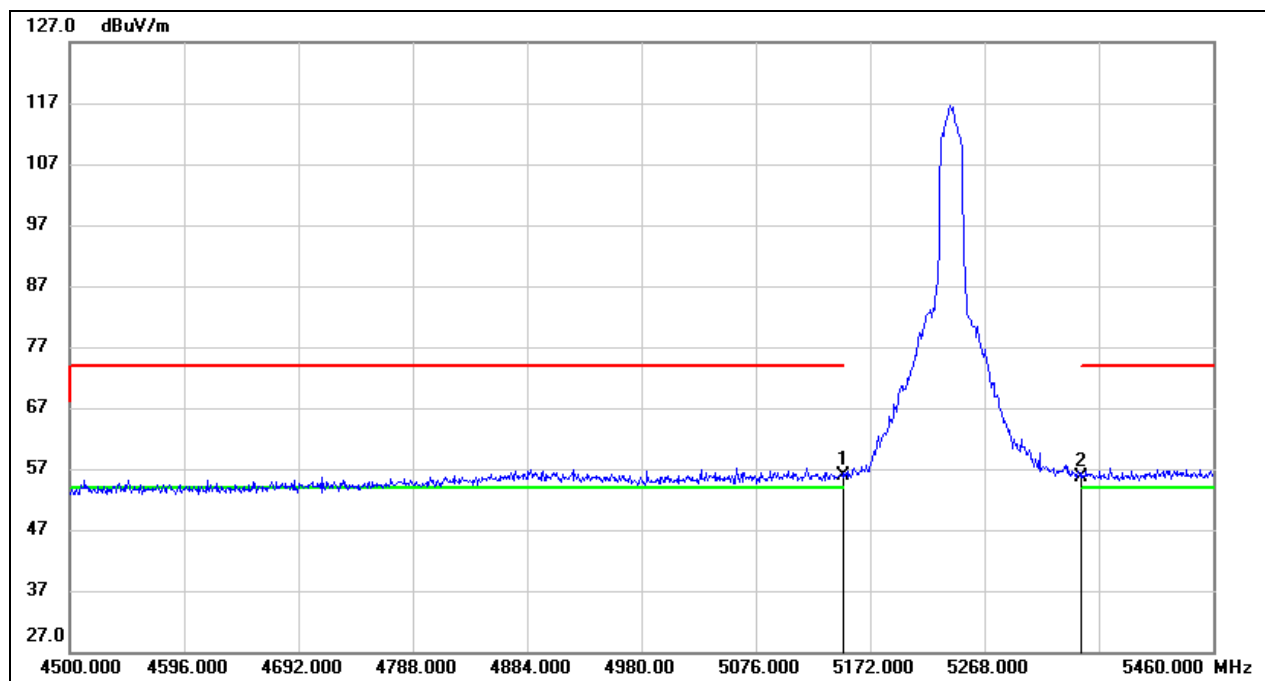
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.69	40.27	55.96	74.00	-18.04	peak
2	5350.000	15.19	40.49	55.68	74.00	-18.32	peak

Test Mode:	802.11ac VHT20 AV	Frequency(MHz):	5240
Polarity:	Vertical	Test Voltage:	DC 12 V
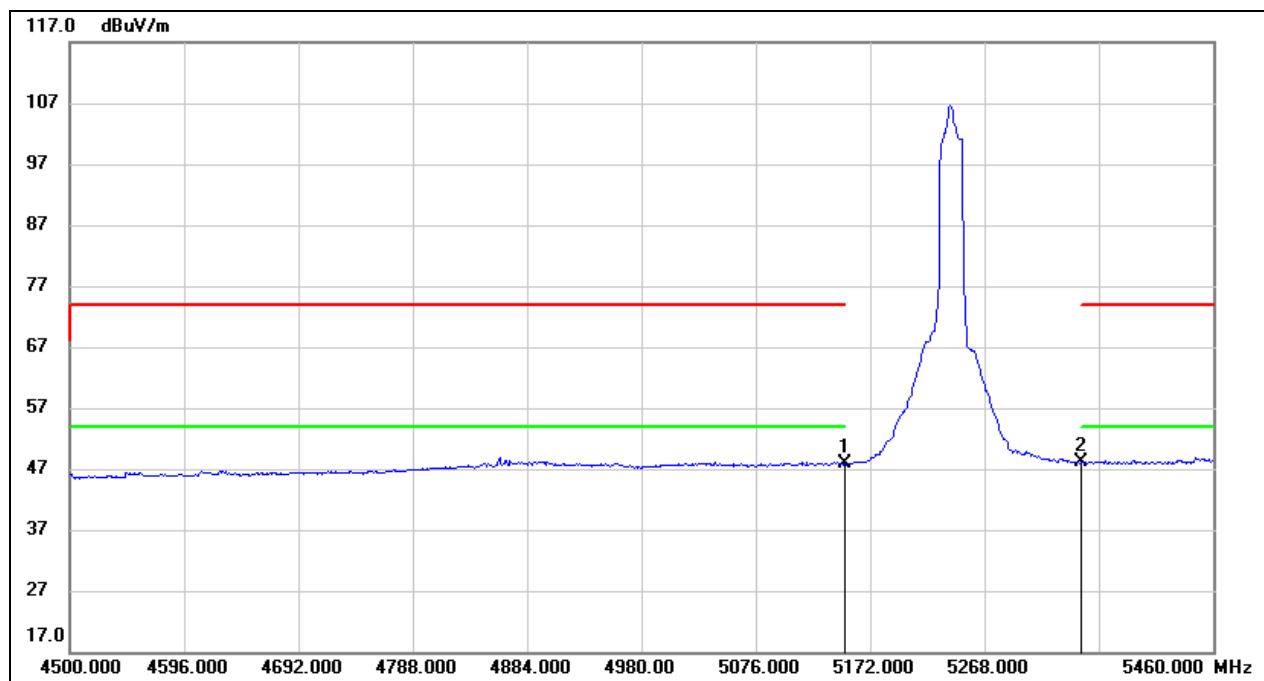
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	7.57	40.27	47.84	54.00	-6.16	AVG
2	5350.000	7.72	40.49	48.21	54.00	-5.79	AVG

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Test Mode:	802.11ac VHT20 PK	Frequency(MHz):	5745
Polarity:	Vertical	Test Voltage:	DC 12 V
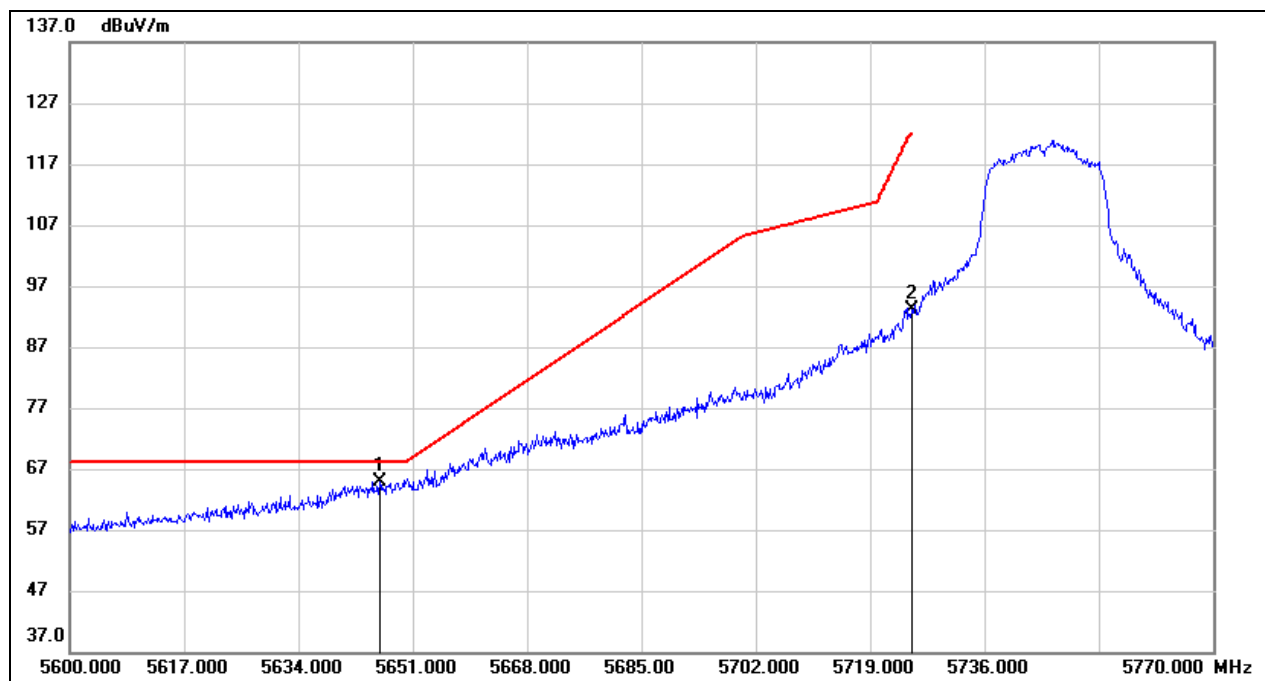
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5646.070	23.83	41.06	64.89	68.20	-3.31	peak
2	5725.000	51.77	41.27	93.04	122.20	-29.16	peak

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Test Mode:	802.11ac VHT20 PK	Frequency(MHz):	5825
Polarity:	Vertical	Test Voltage:	DC 12 V
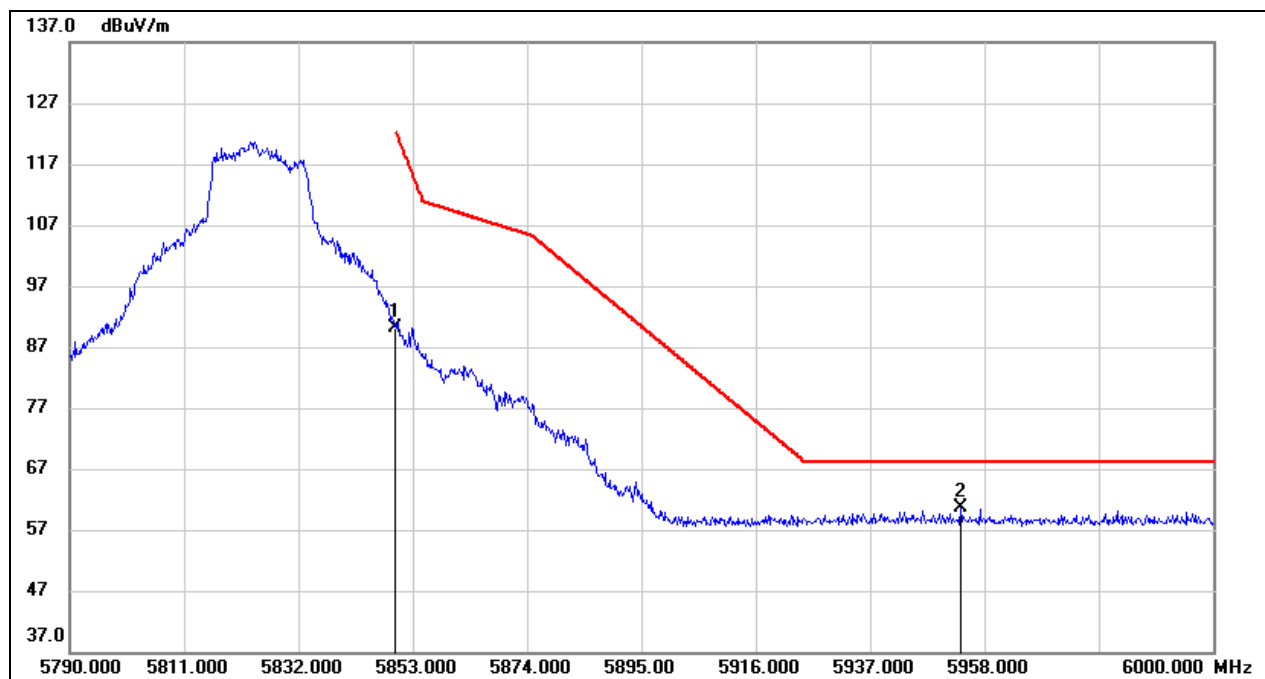
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	48.60	41.60	90.20	122.20	-32.00	peak
2	5953.590	18.84	41.87	60.71	68.20	-7.49	peak

Test Mode:	802.11ac VHT40 PK	Frequency(MHz):	5190
Polarity:	Vertical	Test Voltage:	DC 12 V
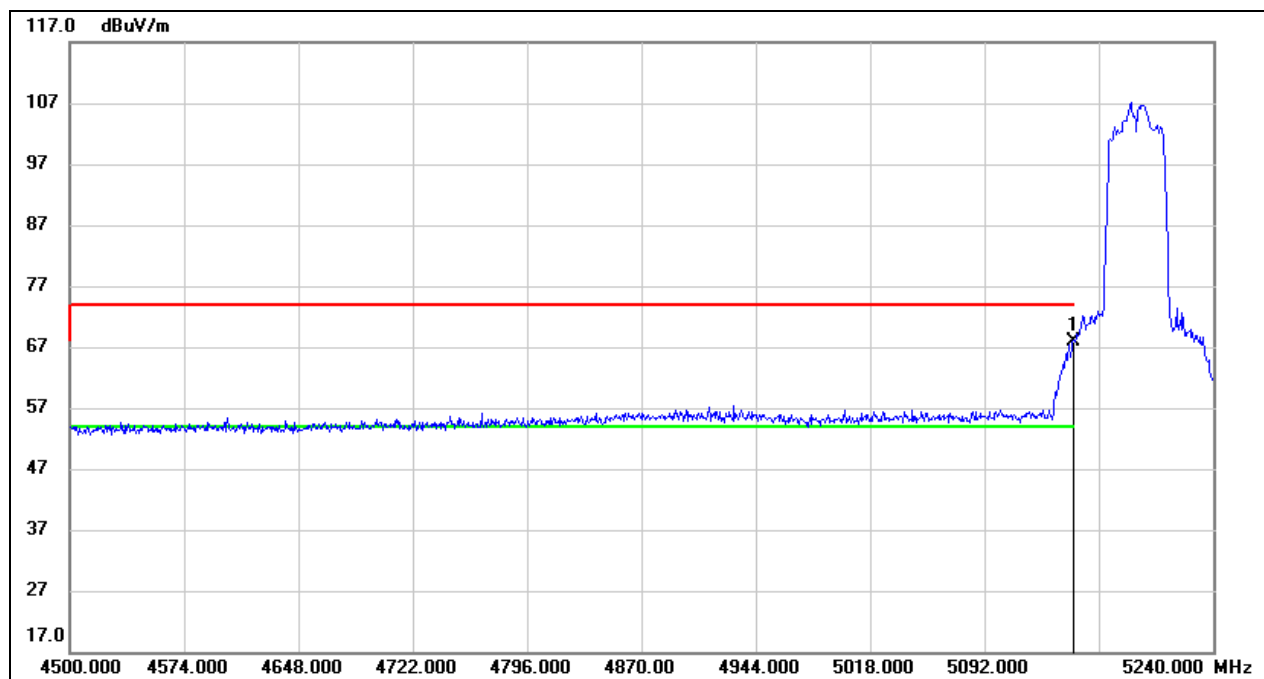
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	27.54	40.27	67.81	74.00	-6.19	peak

Test Mode:	802.11ac VHT40 AV	Frequency(MHz):	5190
Polarity:	Vertical	Test Voltage:	DC 12 V
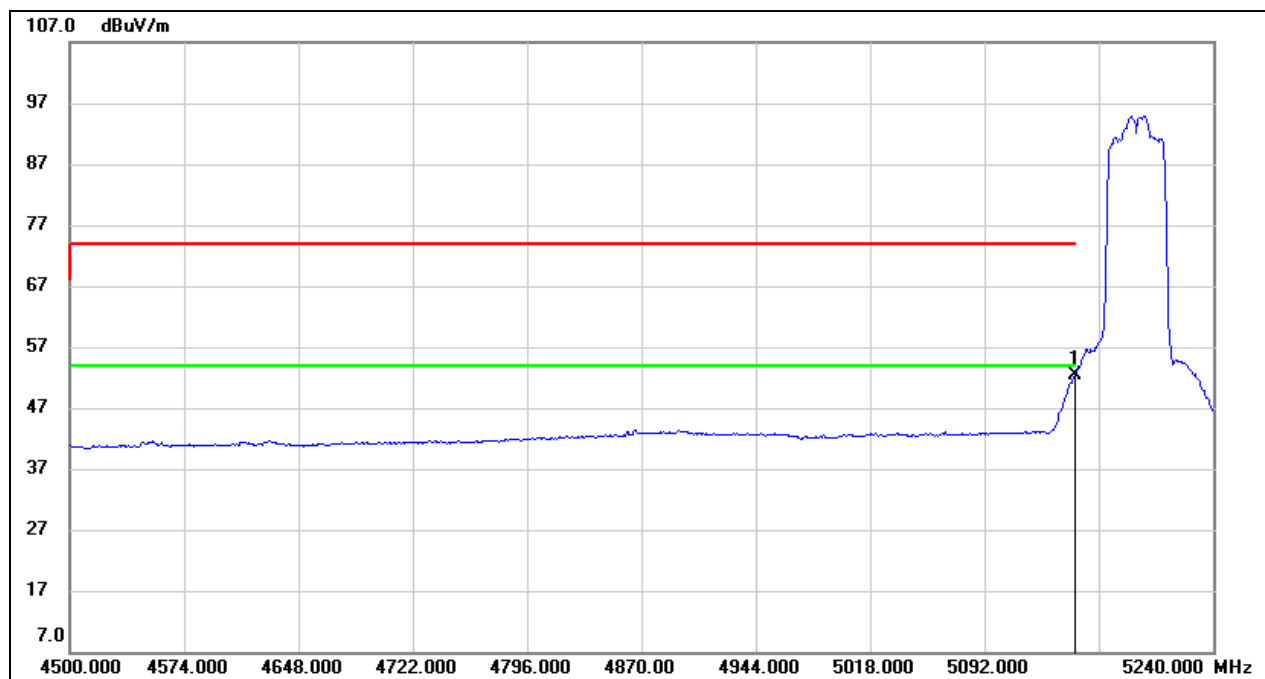
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	12.14	40.27	52.41	54.00	-1.59	AVG

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Test Mode:	802.11ac VHT40 PK	Frequency(MHz):	5230
Polarity:	Vertical	Test Voltage:	DC 12 V
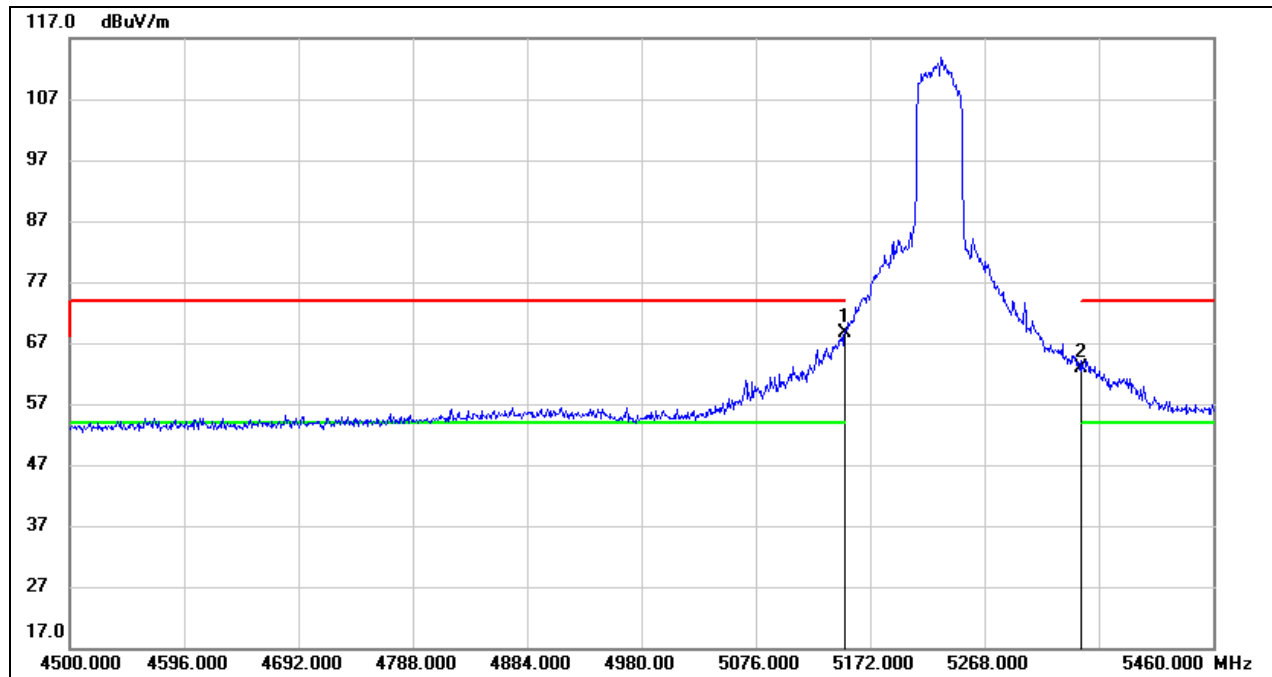
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	28.26	40.27	68.53	74.00	-5.47	peak
2	5350.000	22.29	40.49	62.78	74.00	-11.22	peak

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Test Mode:	802.11ac VHT40 AV	Frequency(MHz):	5230
Polarity:	Vertical	Test Voltage:	DC 12 V
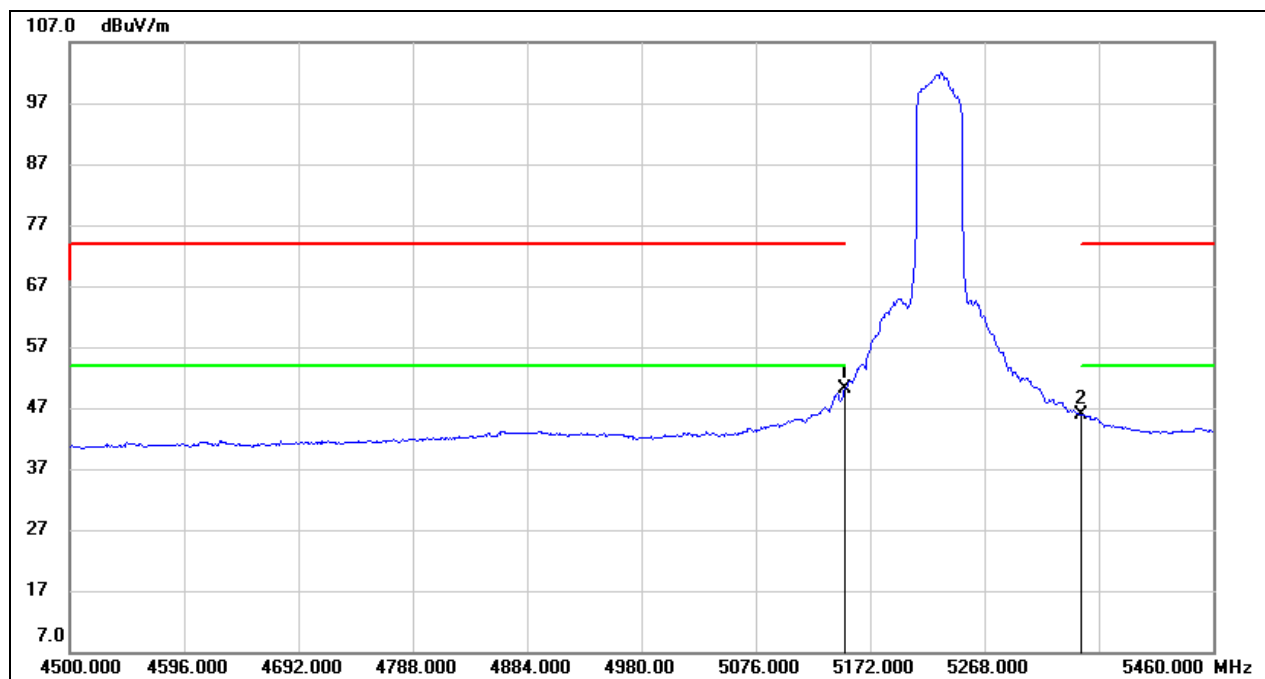
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	9.79	40.27	50.06	54.00	-3.94	AVG
2	5350.000	5.39	40.49	45.88	54.00	-8.12	AVG

| Test Mode: | 802.11ac VHT40 PK | Frequency(MHz): | 5755 |
| Polarity: | Vertical | Test Voltage: | DC 12 V |
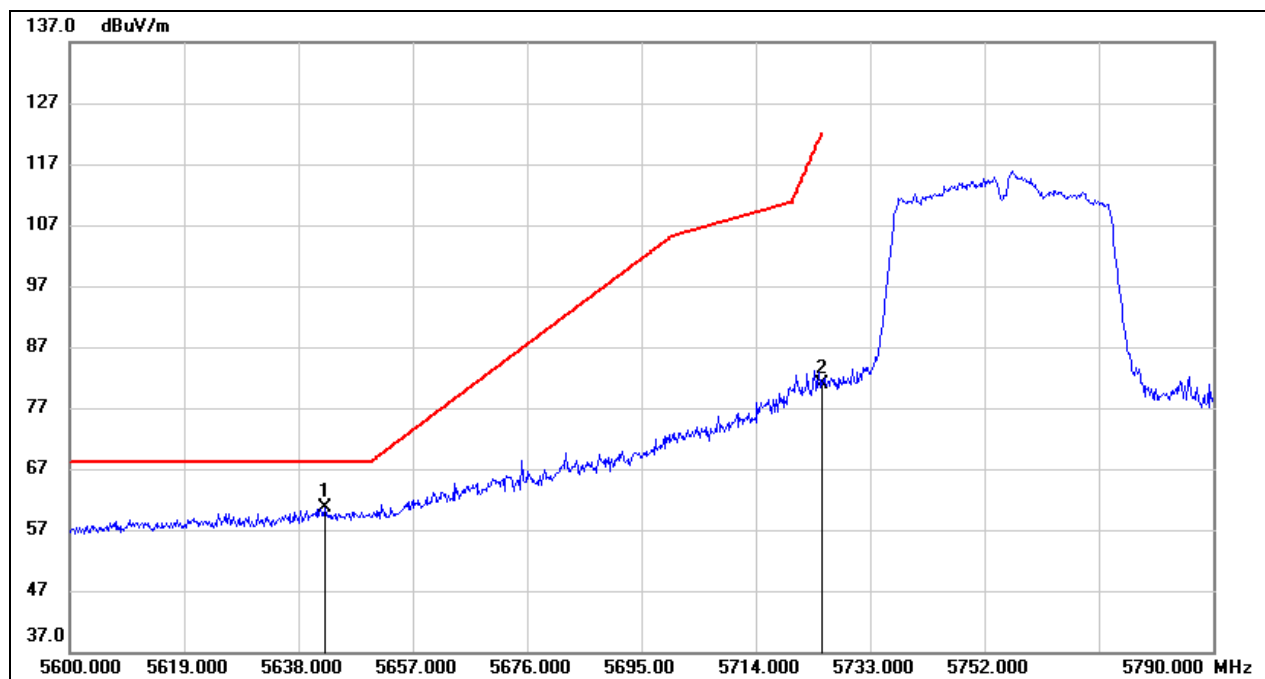
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5642.370	19.47	41.04	60.51	68.20	-7.69	peak
2	5725.000	39.53	41.27	80.80	122.20	-41.40	peak

Test Mode:	802.11ac VHT40 PK	Frequency(MHz):	5795
Polarity:	Vertical	Test Voltage:	DC 12 V
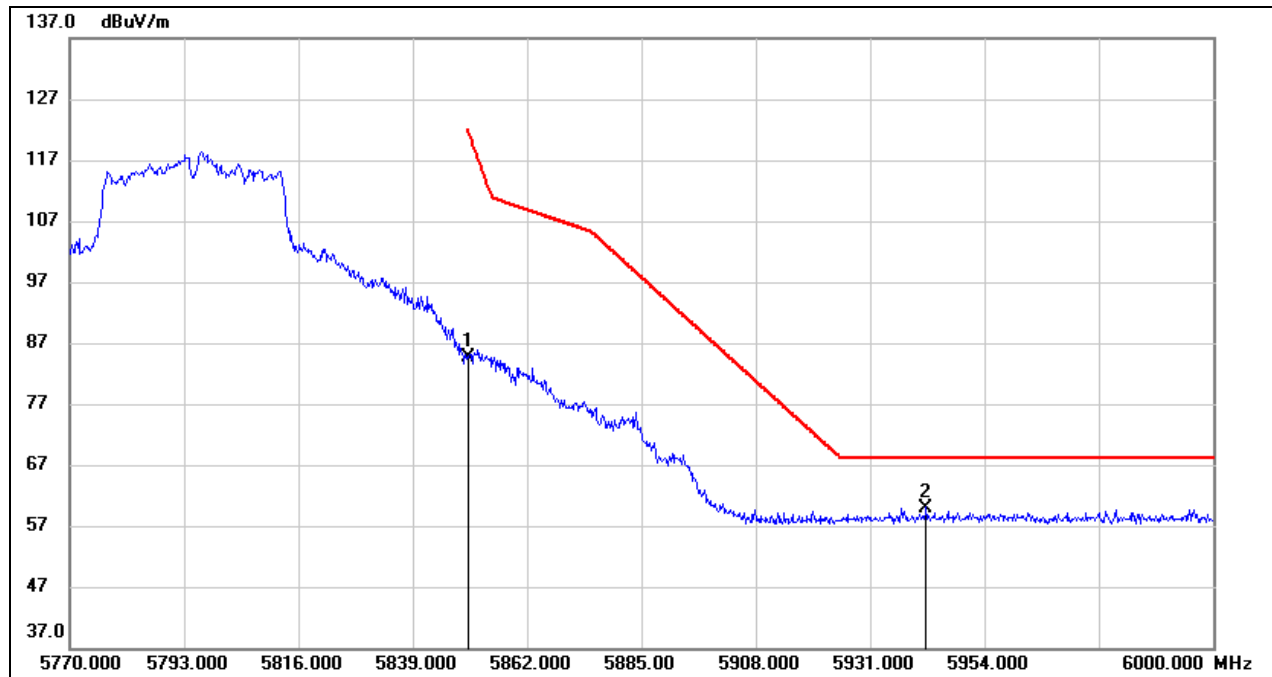
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	43.09	41.60	84.69	122.20	-37.51	peak
2	5942.270	18.16	41.84	60.00	68.20	-8.20	peak

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Test Mode:	802.11ac VHT80 PK	Frequency(MHz):	5210
Polarity:	Vertical	Test Voltage:	DC 12 V
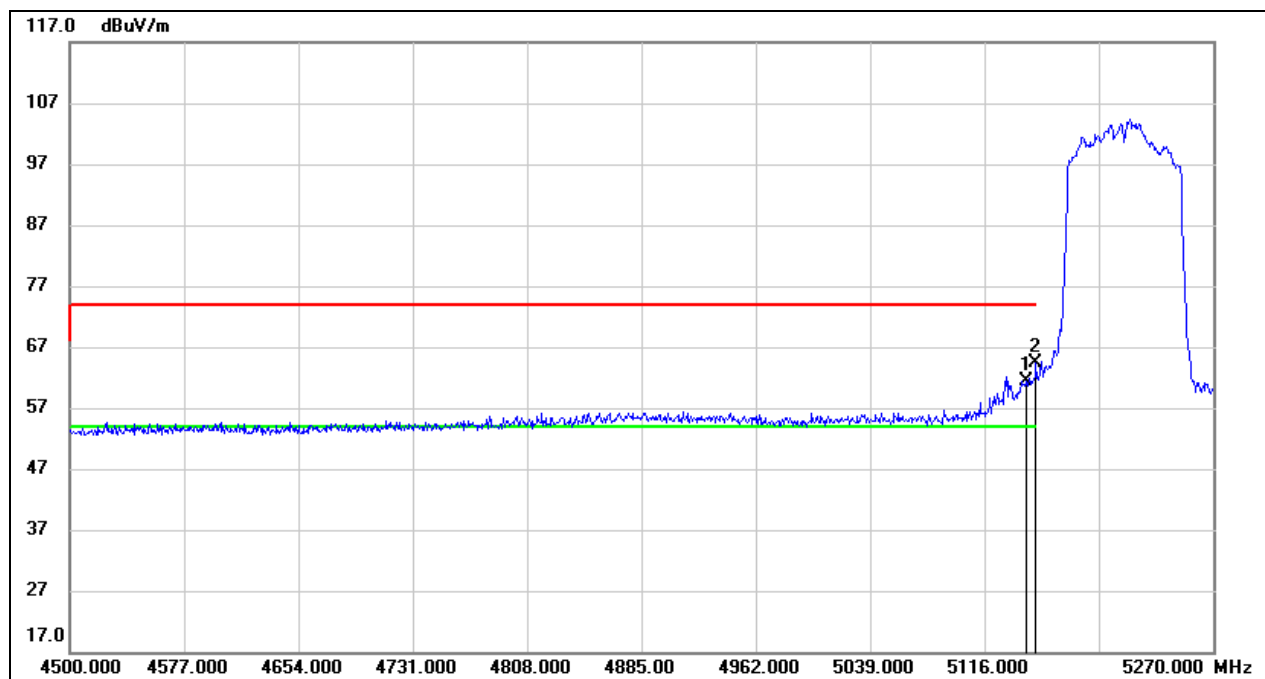
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.720	21.11	40.27	61.38	74.00	-12.62	peak
2	5150.000	24.22	40.27	64.49	74.00	-9.51	peak

Test Mode:	802.11ac VHT80 AV	Frequency(MHz):	5210
Polarity:	Vertical	Test Voltage:	DC 12 V
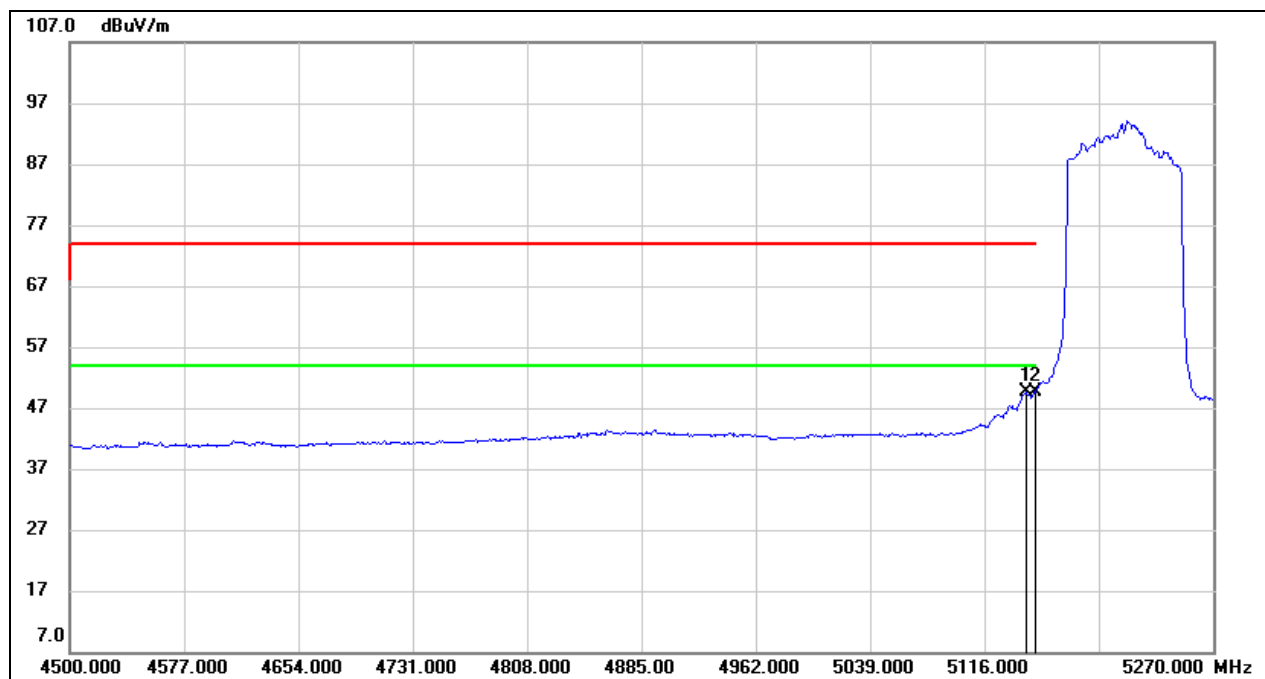
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.720	9.38	40.27	49.65	54.00	-4.35	AVG
2	5150.000	9.37	40.27	49.64	54.00	-4.36	AVG

Test Mode:	802.11ac VHT80 PK	Frequency(MHz):	5775
Polarity:	Vertical	Test Voltage:	DC 12 V
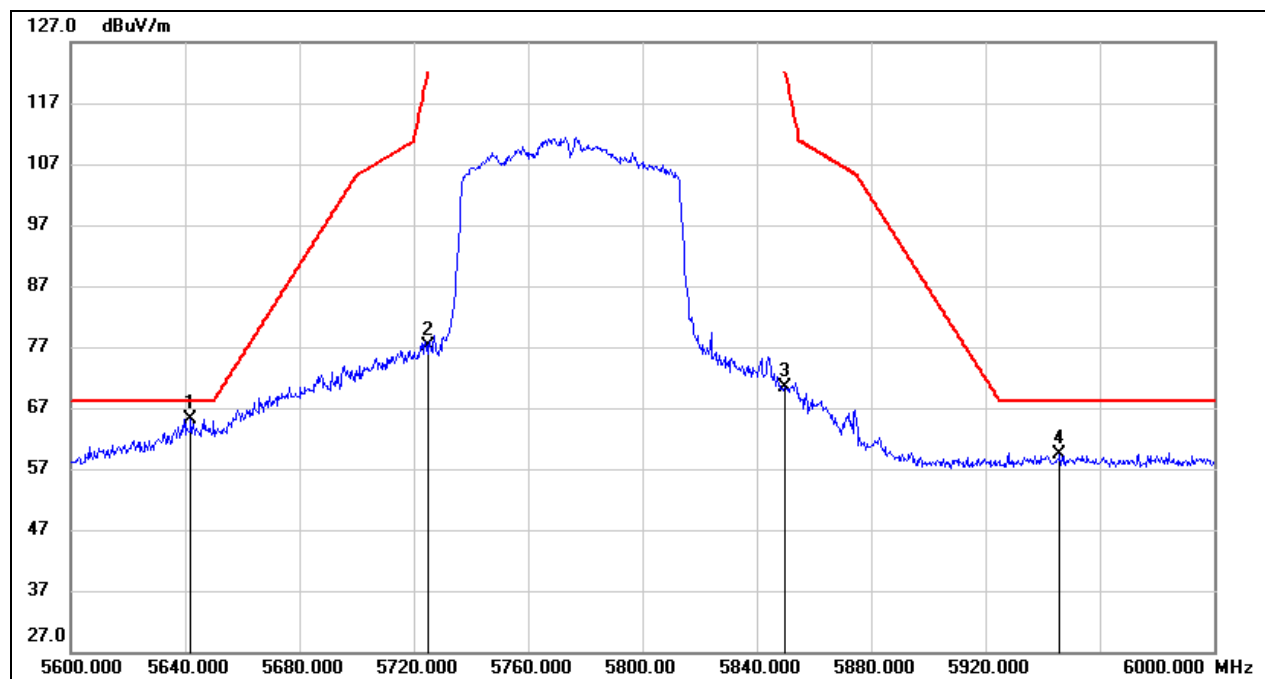
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5642.000	24.16	41.04	65.20	68.20	-3.00	peak
2	5725.000	35.76	41.27	77.03	122.20	-45.17	peak
3	5850.000	28.69	41.60	70.29	122.20	-51.91	peak
4	5946.000	17.60	41.86	59.46	68.20	-8.74	peak

Test Mode:	802.11ac VHT160 PK	Frequency(MHz):	5250
Polarity:	Vertical	Test Voltage:	DC 12 V
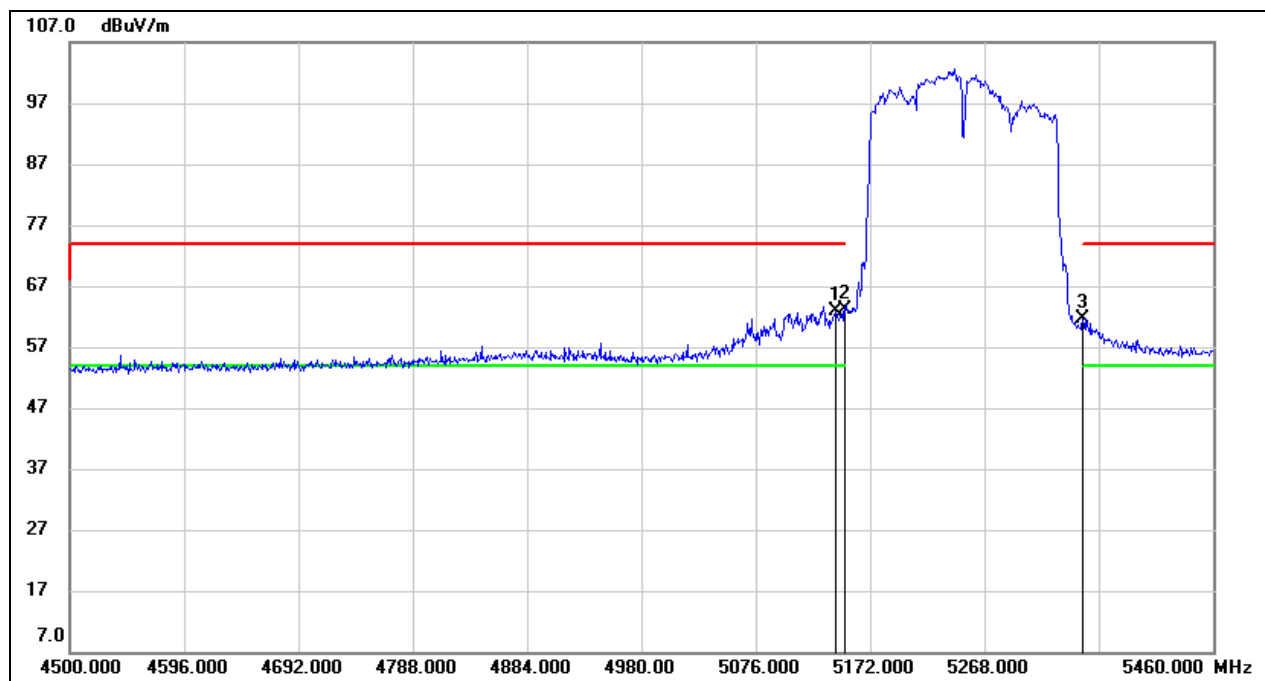
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.200	22.67	40.27	62.94	74.00	-11.06	peak
2	5150.000	22.87	40.27	63.14	74.00	-10.86	peak
3	5350.000	21.12	40.49	61.61	74.00	-12.39	peak

Test Mode:	802.11ac VHT160 AV	Frequency(MHz):	5250
Polarity:	Vertical	Test Voltage:	DC 12 V
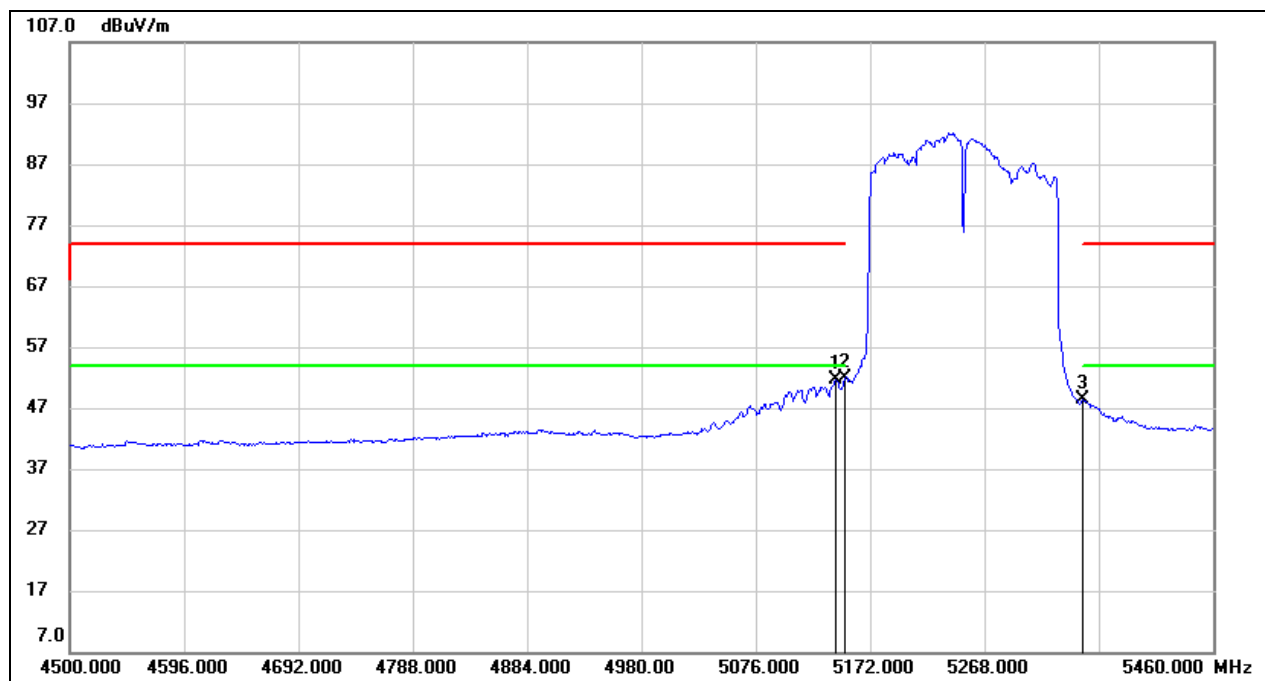
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.200	11.26	40.27	51.53	54.00	-2.47	AVG
2	5150.000	11.70	40.27	51.97	54.00	-2.03	AVG
3	5350.000	7.77	40.49	48.26	54.00	-5.74	AVG

Test Mode:	802.11ax HE20 PK	Channel:	5180
Polarity:	Vertical	Test Voltage:	DC 12 V
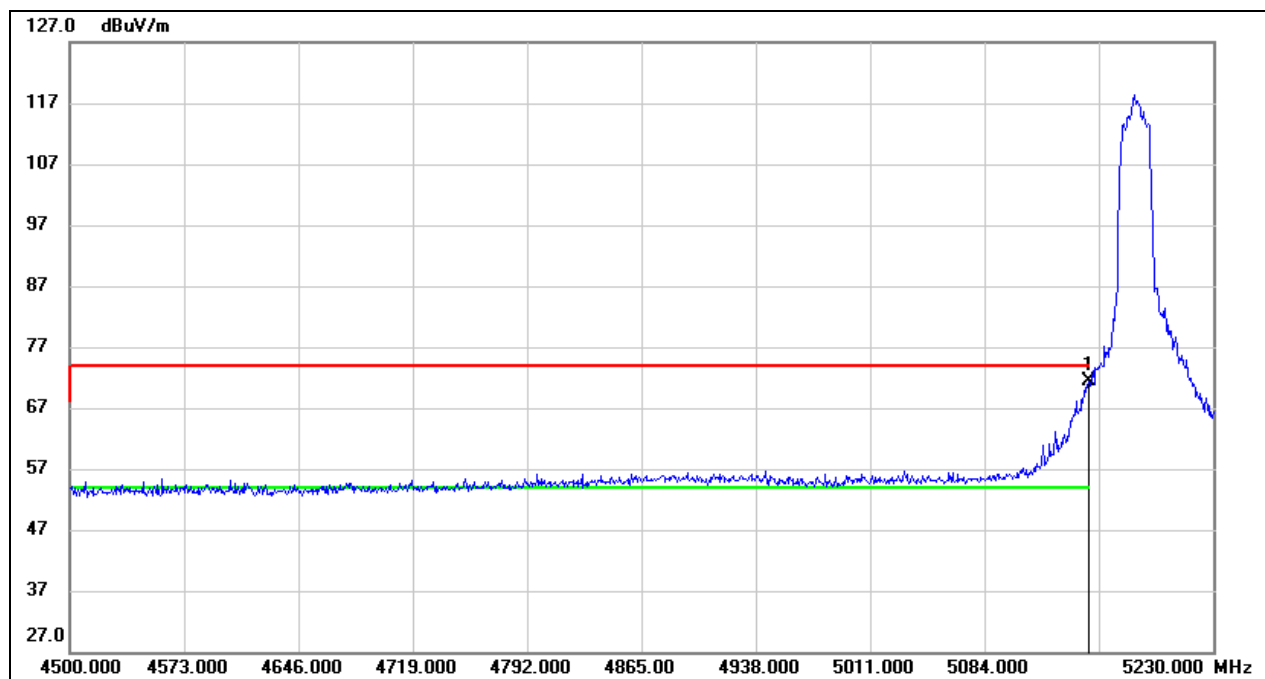
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	31.21	40.27	71.48	74.00	-2.52	peak

Test Mode:	802.11ax HE20 AV	Channel:	5180
Polarity:	Vertical	Test Voltage:	DC 12 V
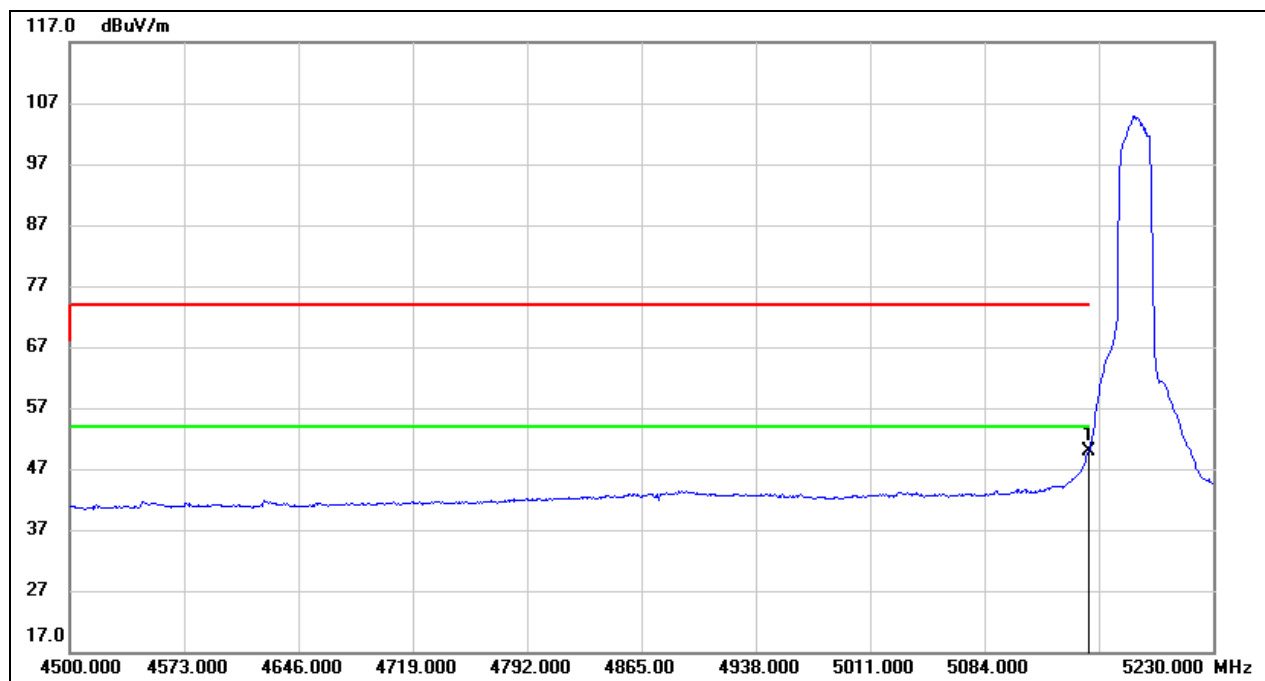
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	9.50	40.27	49.77	54.00	-4.23	AVG

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Test Mode:	802.11ax HE20 PK	Channel:	5240
Polarity:	Vertical	Test Voltage:	DC 12 V
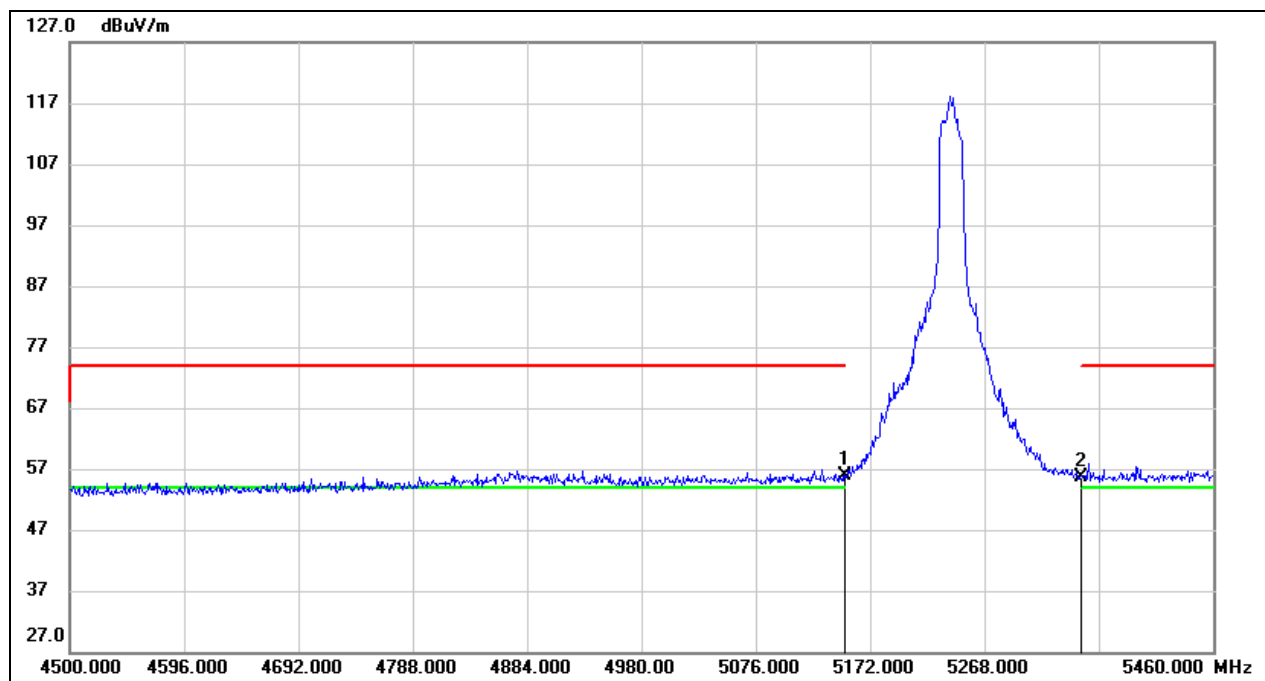
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.60	40.27	55.87	74.00	-18.13	peak
2	5350.000	15.18	40.49	55.67	74.00	-18.33	peak

Test Mode:	802.11ax HE20 AV	Channel:	5240
Polarity:	Vertical	Test Voltage:	DC 12 V
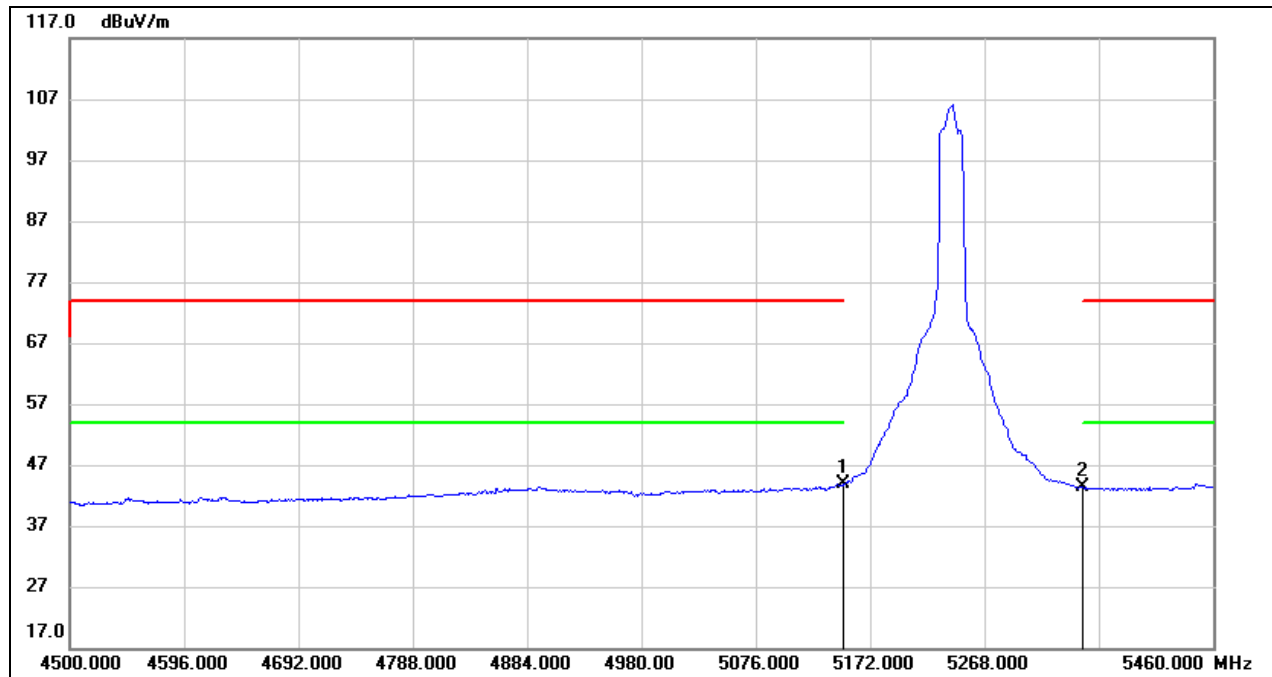
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.56	40.27	43.83	54.00	-10.17	AVG
2	5350.000	2.93	40.49	43.42	54.00	-10.58	AVG

Test Mode:	802.11ax HE20 PK	Channel:	5745
Polarity:	Vertical	Test Voltage:	DC 12 V
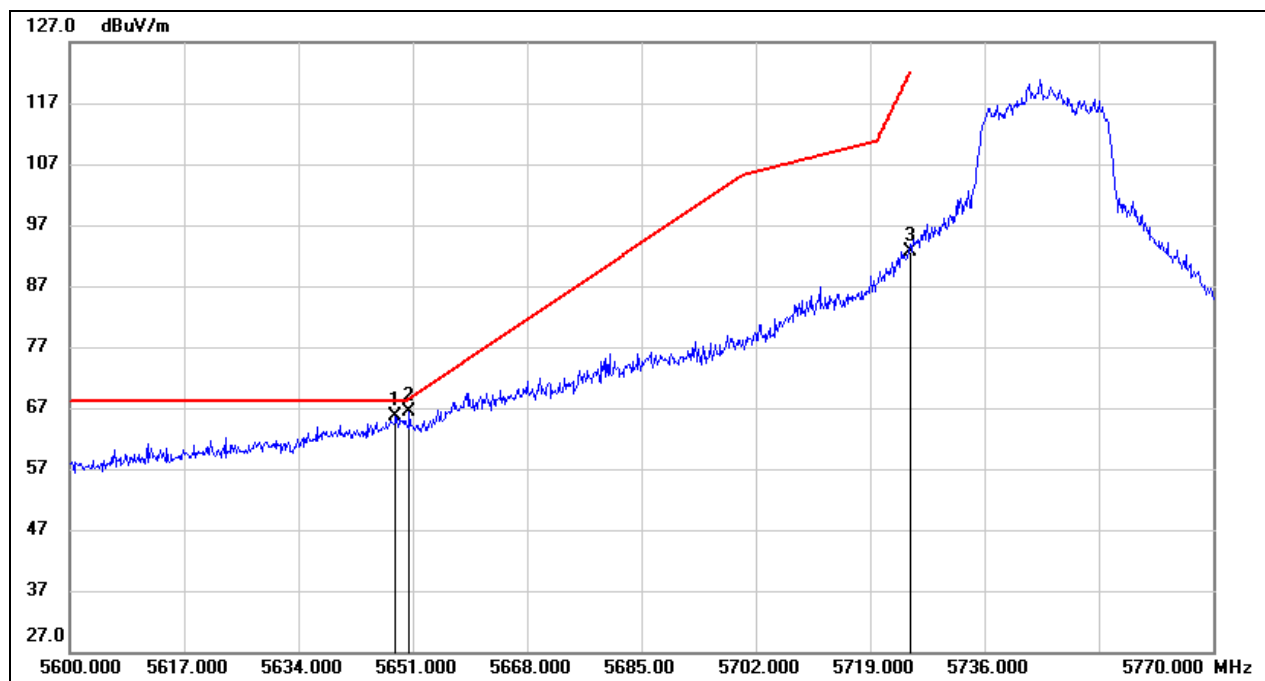
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5648.450	24.49	41.06	65.55	68.20	-2.65	peak
2	5650.490	25.33	41.06	66.39	68.56	-2.17	peak
3	5725.000	51.44	41.27	92.71	122.20	-29.49	peak

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Test Mode:	802.11ax HE20 PK	Channel:	5825
Polarity:	Vertical	Test Voltage:	DC 12 V
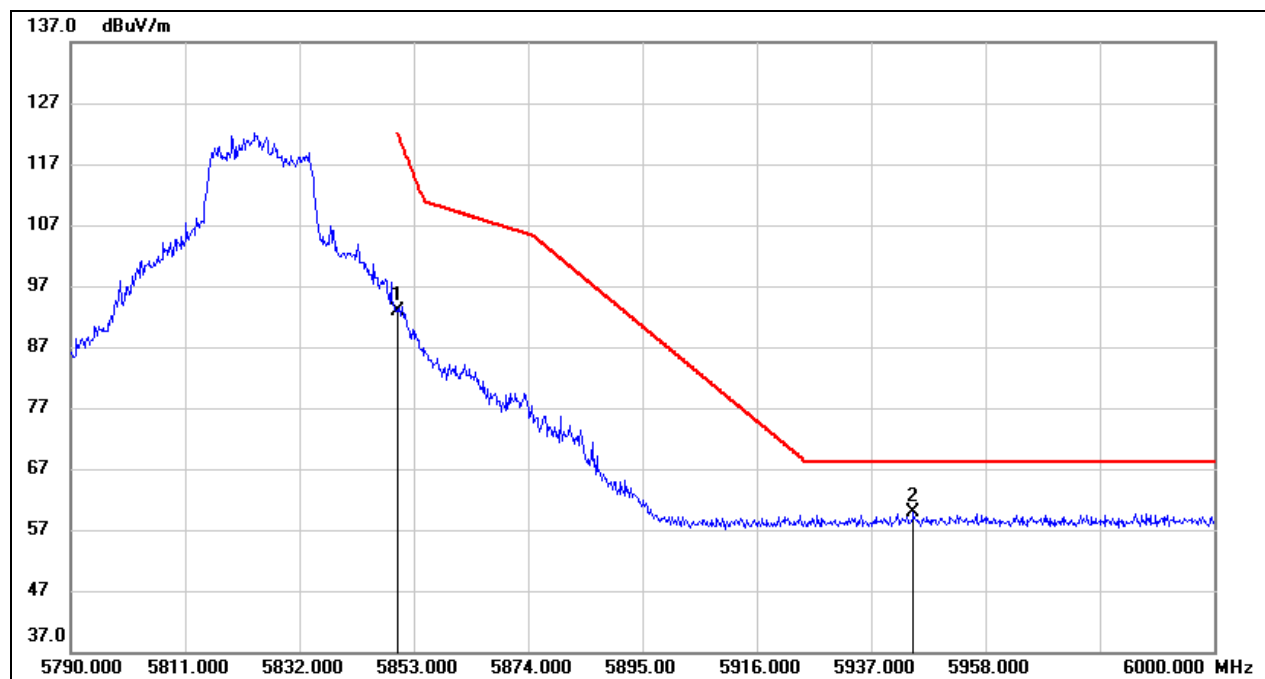
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	51.27	41.60	92.87	122.20	-29.33	peak
2	5944.770	17.94	41.85	59.79	68.20	-8.41	peak

Test Mode:	802.11ax HE40 PK	Channel:	5190
Polarity:	Vertical	Test Voltage:	DC 12 V
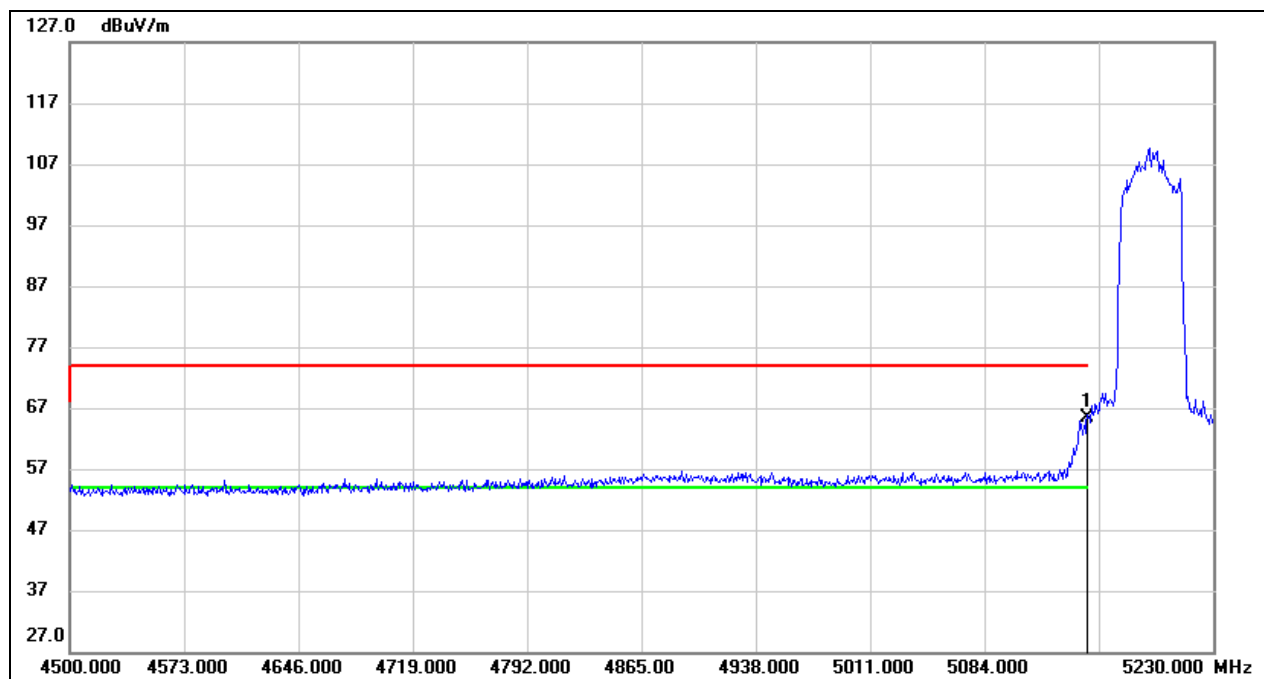
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	25.10	40.27	65.37	74.00	-8.63	peak

Test Mode:	802.11ax HE40 AV	Channel:	5190
Polarity:	Vertical	Test Voltage:	DC 12 V
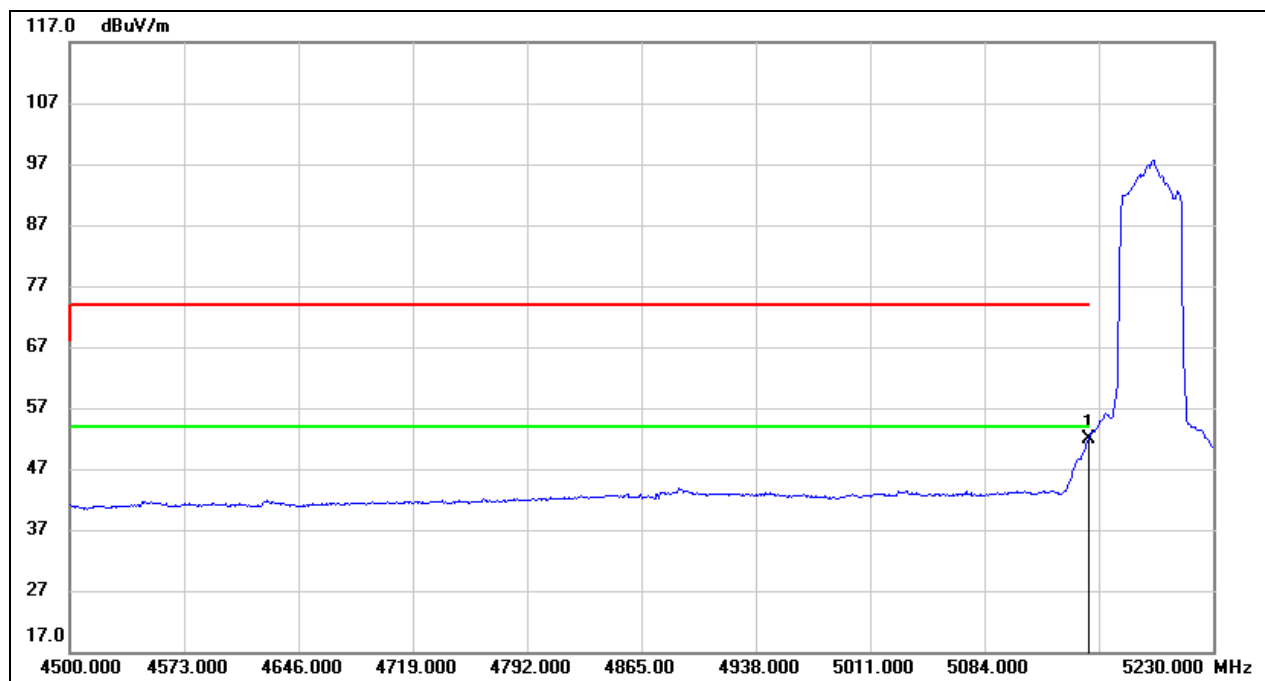
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	11.72	40.27	51.99	54.00	-2.01	AVG

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Test Mode:	802.11ax HE40 PK	Channel:	5230
Polarity:	Vertical	Test Voltage:	DC 12 V
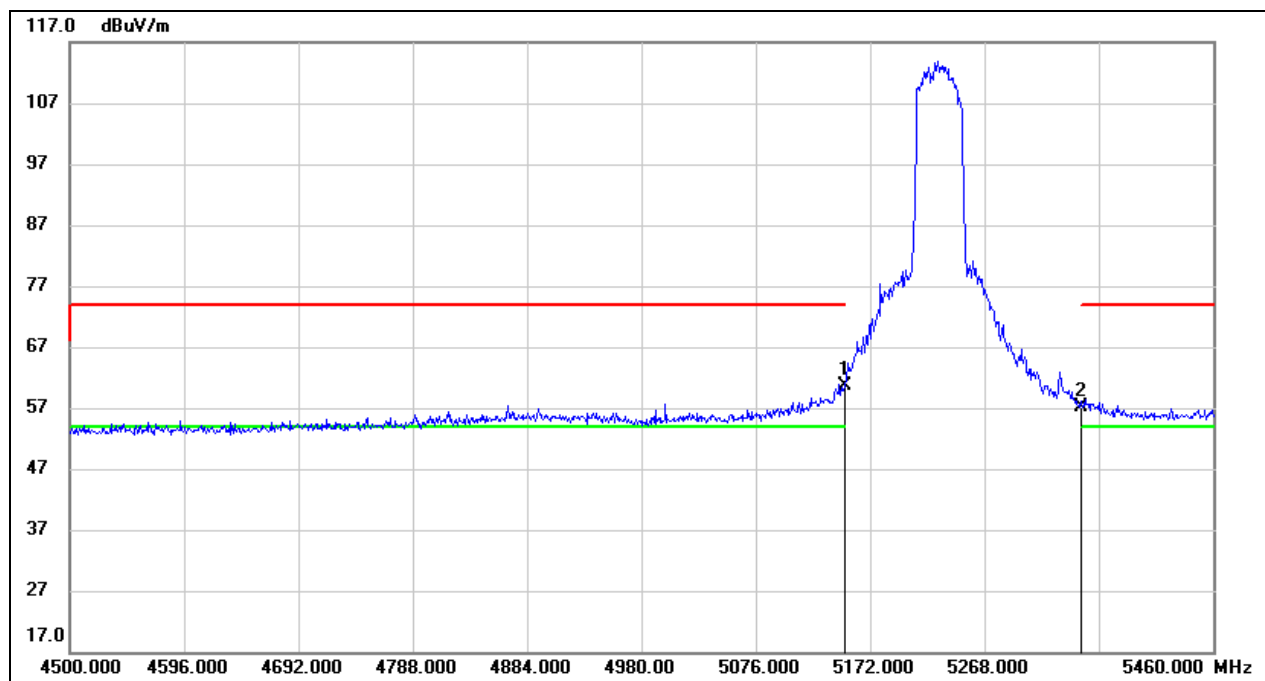
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	20.28	40.27	60.55	74.00	-13.45	peak
2	5350.000	16.54	40.49	57.03	74.00	-16.97	peak

Test Mode:	802.11ax HE40 AV	Channel:	5230
Polarity:	Vertical	Test Voltage:	DC 12 V
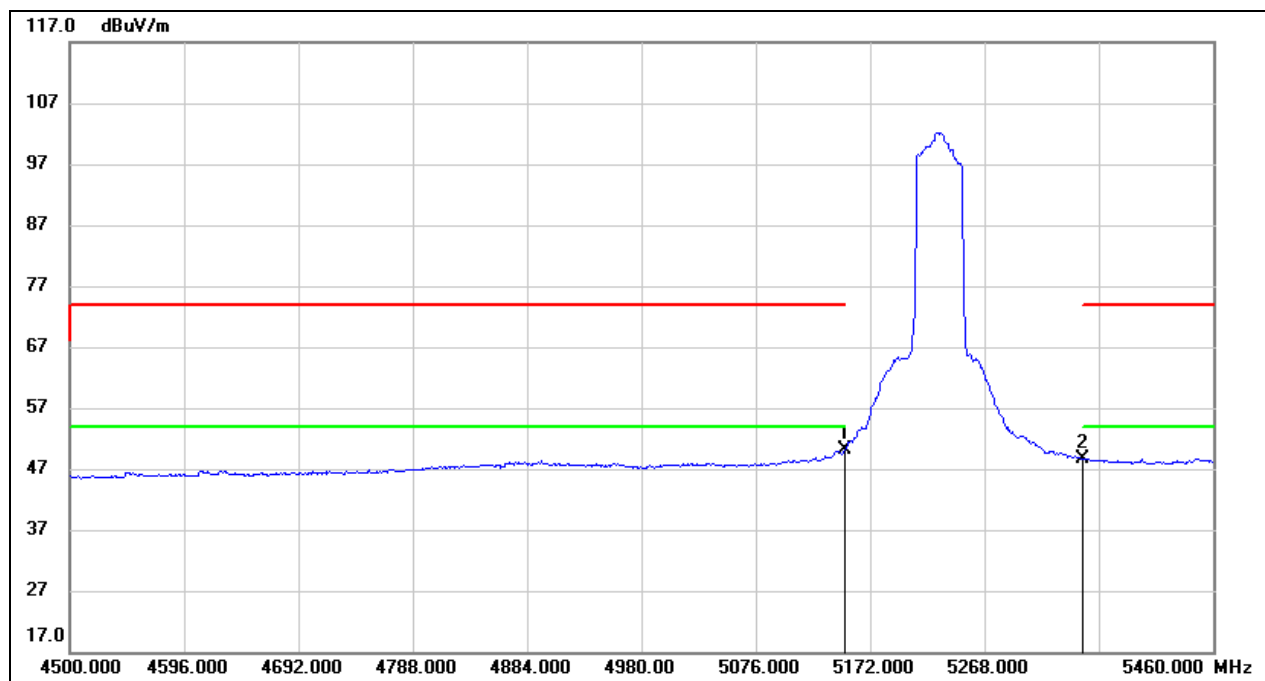
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	9.74	40.27	50.01	54.00	-3.99	AVG
2	5350.000	8.17	40.49	48.66	54.00	-5.34	AVG

Test Mode:	802.11ax HE40 PK	Channel:	5755
Polarity:	Vertical	Test Voltage:	DC 12 V
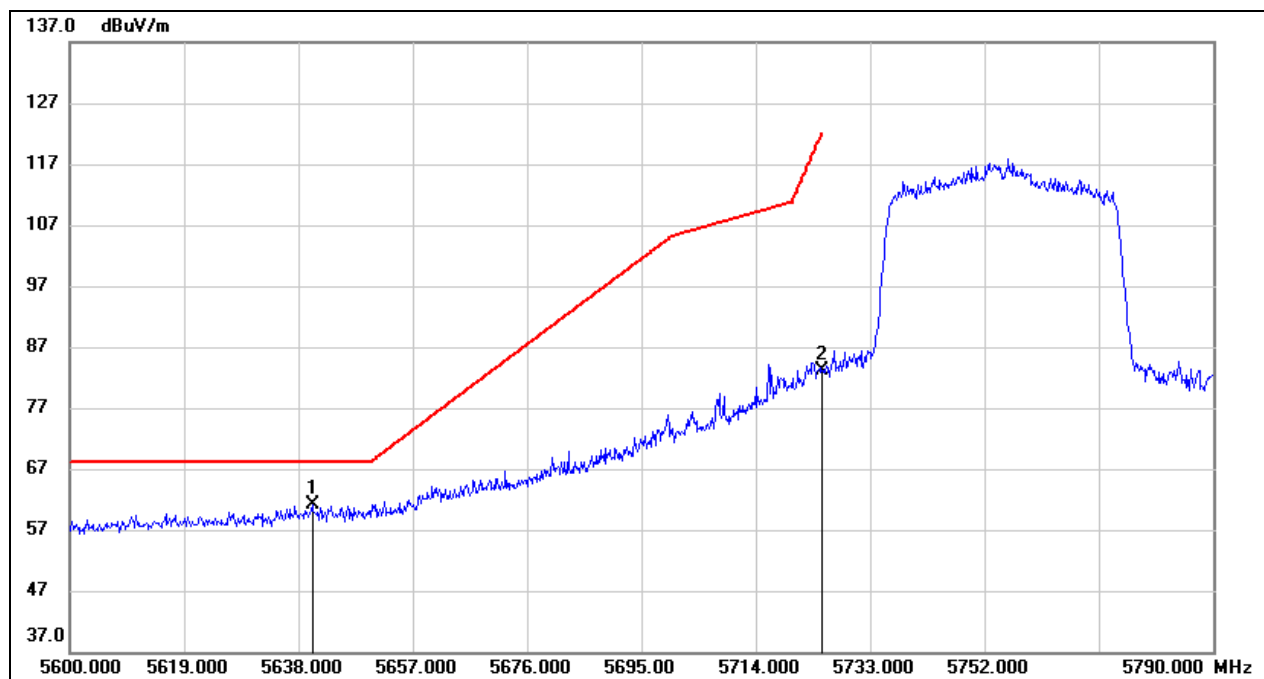
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5640.280	20.00	41.04	61.04	68.20	-7.16	peak
2	5725.000	41.88	41.27	83.15	122.20	-39.05	peak

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Test Mode:	802.11ax HE40 PK	Channel:	5795
Polarity:	Vertical	Test Voltage:	DC 12 V
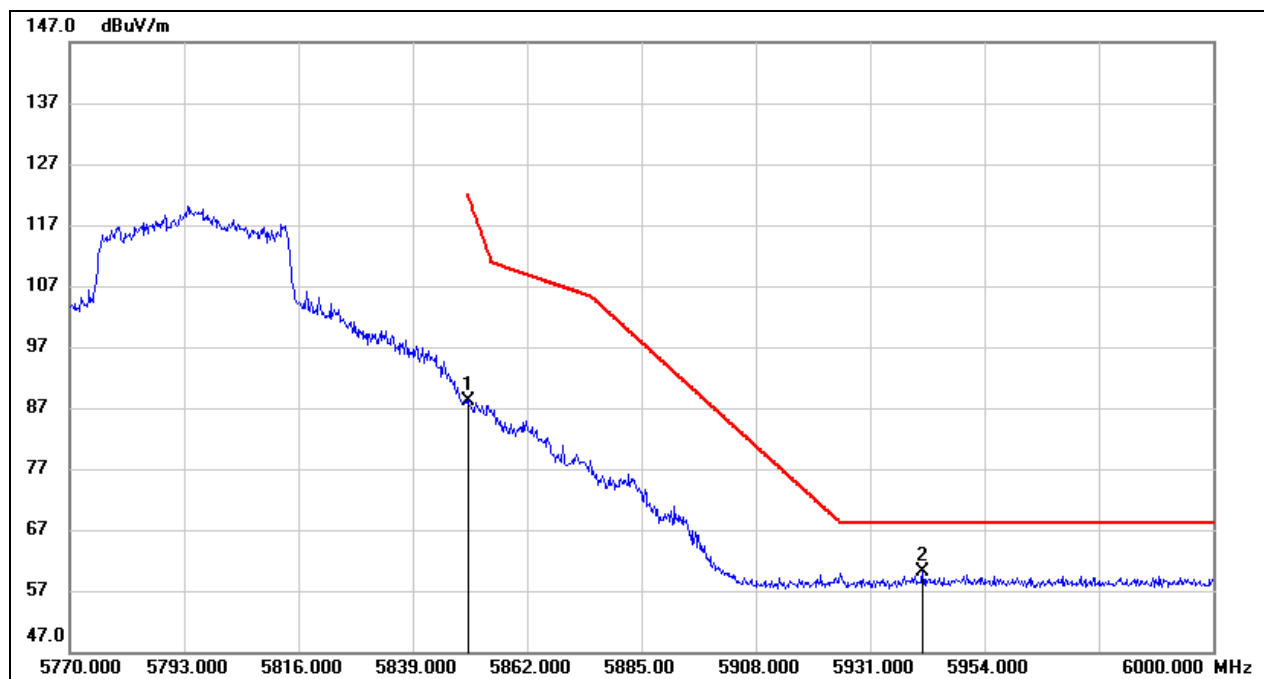
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.000	46.65	41.60	88.25	122.20	-33.95	peak
2	5941.580	18.23	41.84	60.07	68.20	-8.13	peak

Test Mode:	802.11ax HE80 PK	Channel:	5210
Polarity:	Vertical	Test Voltage:	DC 12 V
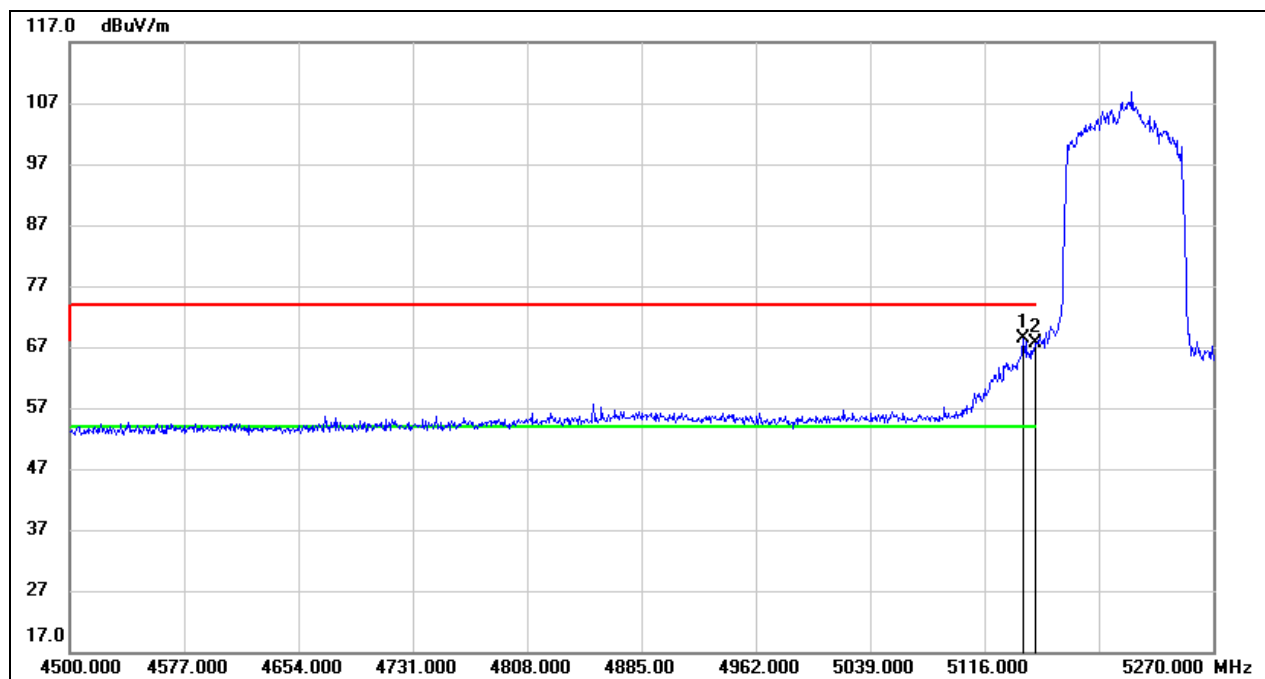
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.180	28.22	40.26	68.48	74.00	-5.52	peak
2	5150.000	27.45	40.27	67.72	74.00	-6.28	peak

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Test Mode:	802.11ax HE80 AV	Channel:	5210
Polarity:	Vertical	Test Voltage:	DC 12 V
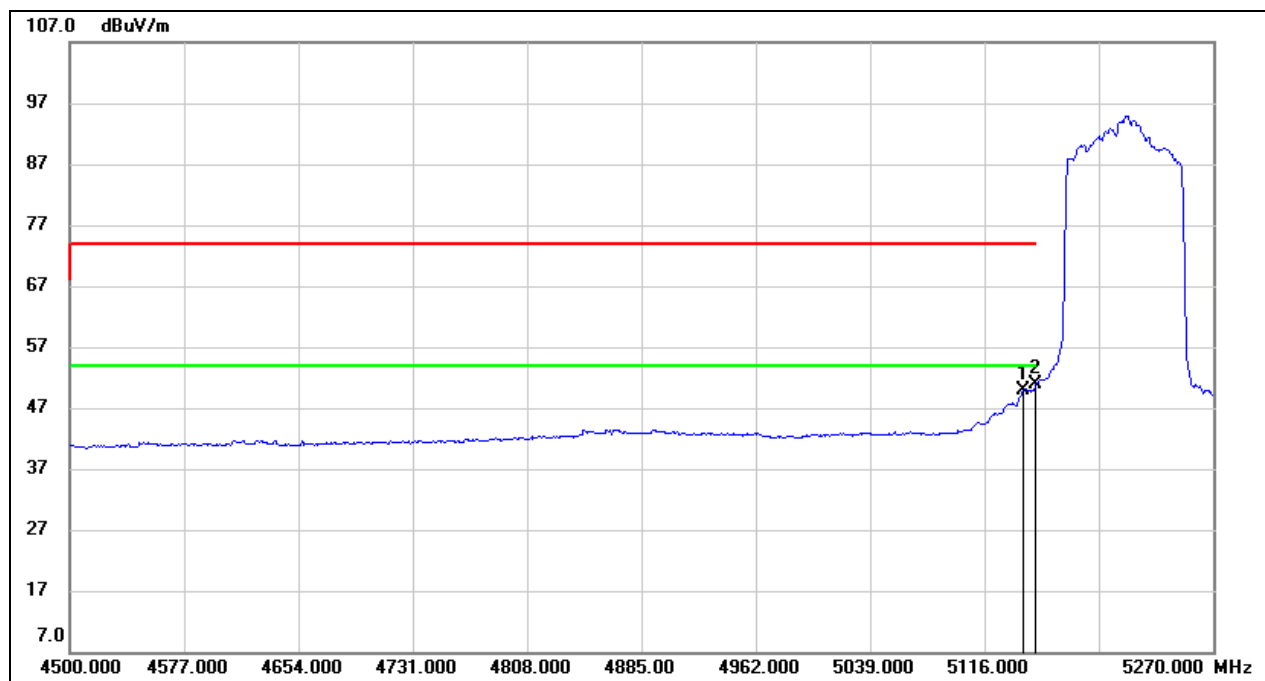
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.180	9.54	40.26	49.80	54.00	-4.20	AVG
2	5150.000	10.69	40.27	50.96	54.00	-3.04	AVG

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Test Mode:	802.11ax HE80 PK	Channel:	5775
Polarity:	Vertical	Test Voltage:	DC 12 V
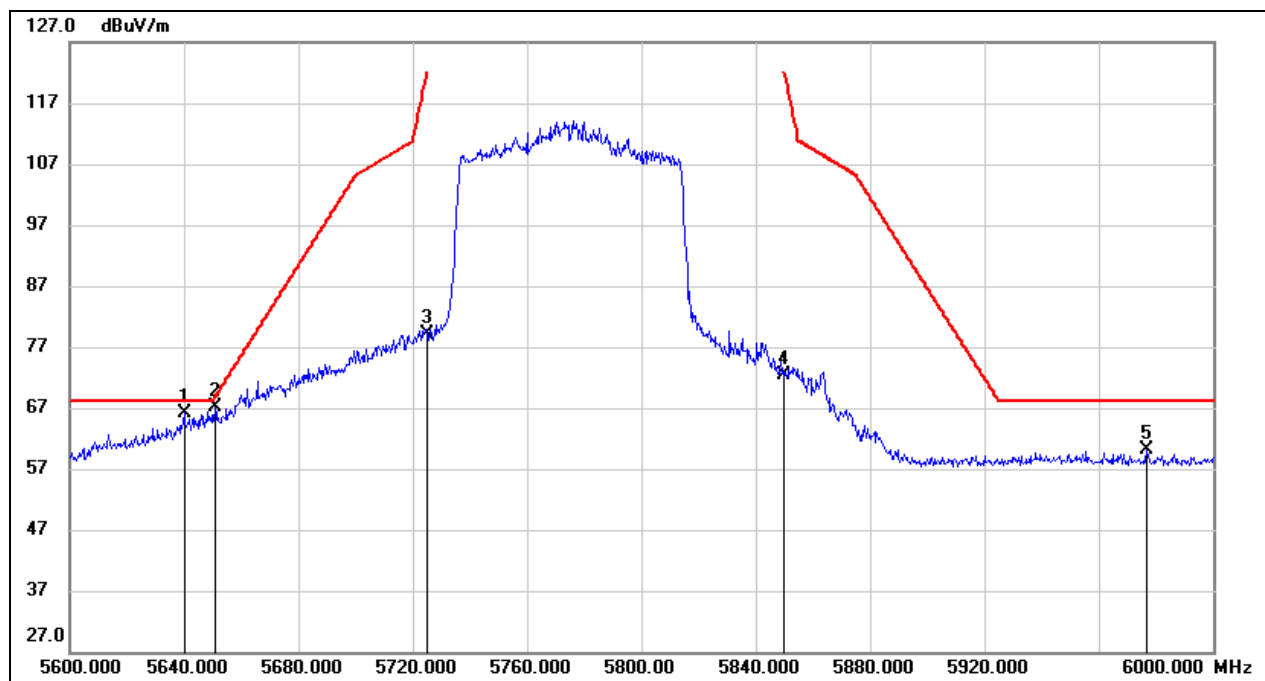
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5640.000	25.11	41.04	66.15	68.20	-2.05	peak
2	5650.800	26.01	41.06	67.07	68.79	-1.72	peak
3	5725.000	37.83	41.27	79.10	122.20	-43.10	peak
4	5850.000	30.66	41.60	72.26	122.20	-49.94	peak
5	5976.800	18.09	41.94	60.03	68.20	-8.17	peak

Test Mode:	802.11ax HE160 PK	Channel:	5250
Polarity:	Vertical	Test Voltage:	DC 12 V
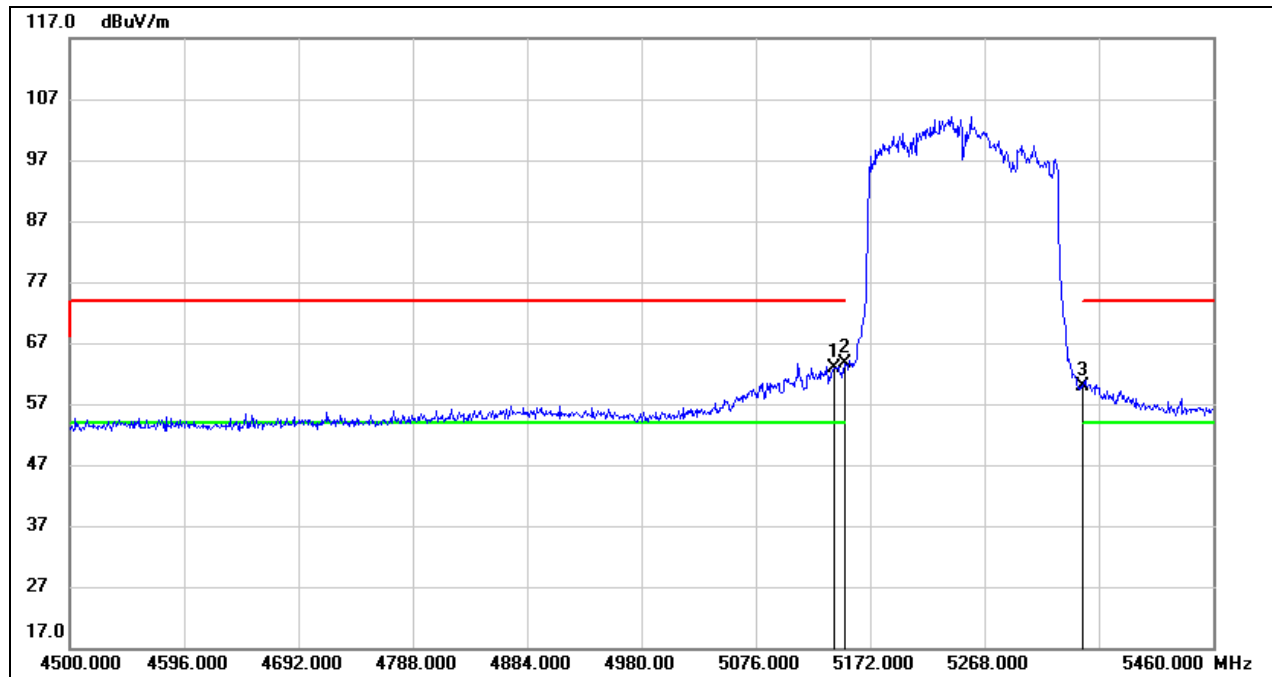
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.240	22.54	40.26	62.80	74.00	-11.20	peak
2	5150.000	23.38	40.27	63.65	74.00	-10.35	peak
3	5350.000	19.40	40.49	59.89	74.00	-14.11	peak

Test Mode:	802.11ax HE160 AV	Channel:	5250
Polarity:	Vertical	Test Voltage:	DC 12 V
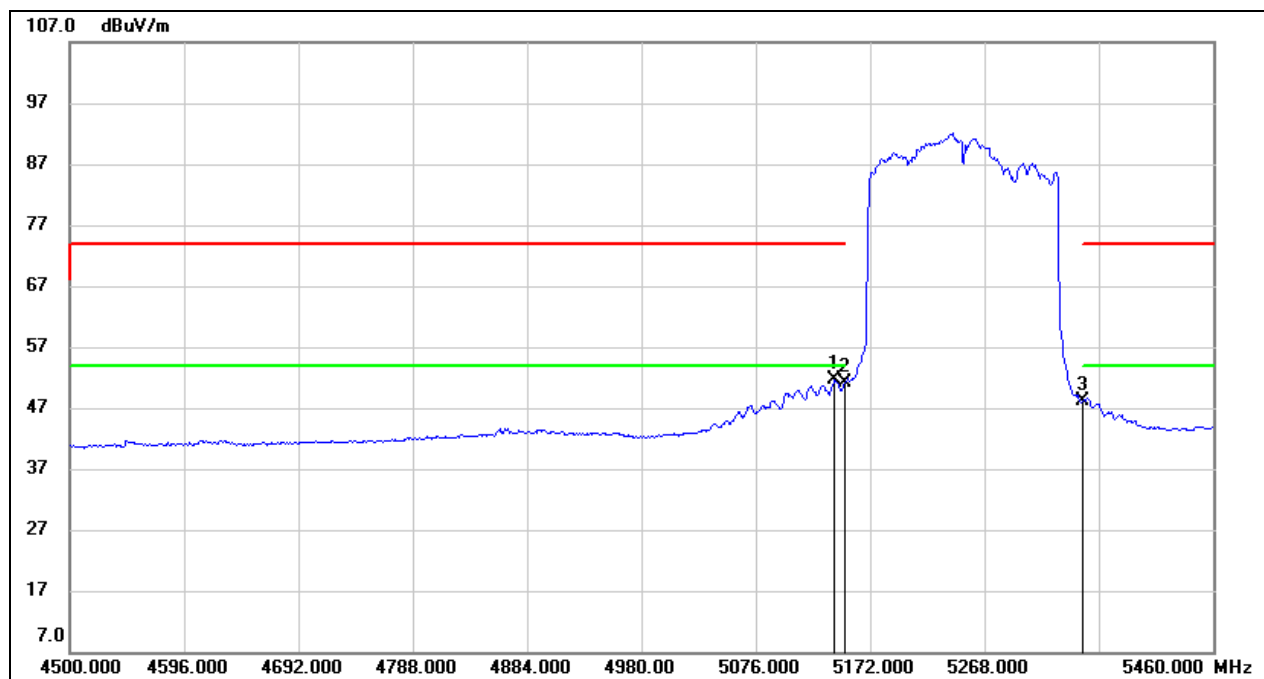
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.240	11.31	40.26	51.57	54.00	-2.43	AVG
2	5150.000	10.93	40.27	51.20	54.00	-2.80	AVG
3	5350.000	7.65	40.49	48.14	54.00	-5.86	AVG

8.2. SPURIOUS EMISSIONS(1 GHZ~7 GHZ)

Test Mode:	802.11a 20	Channel:	5180
Polarity:	Horizontal	Test Voltage:	DC 12 V
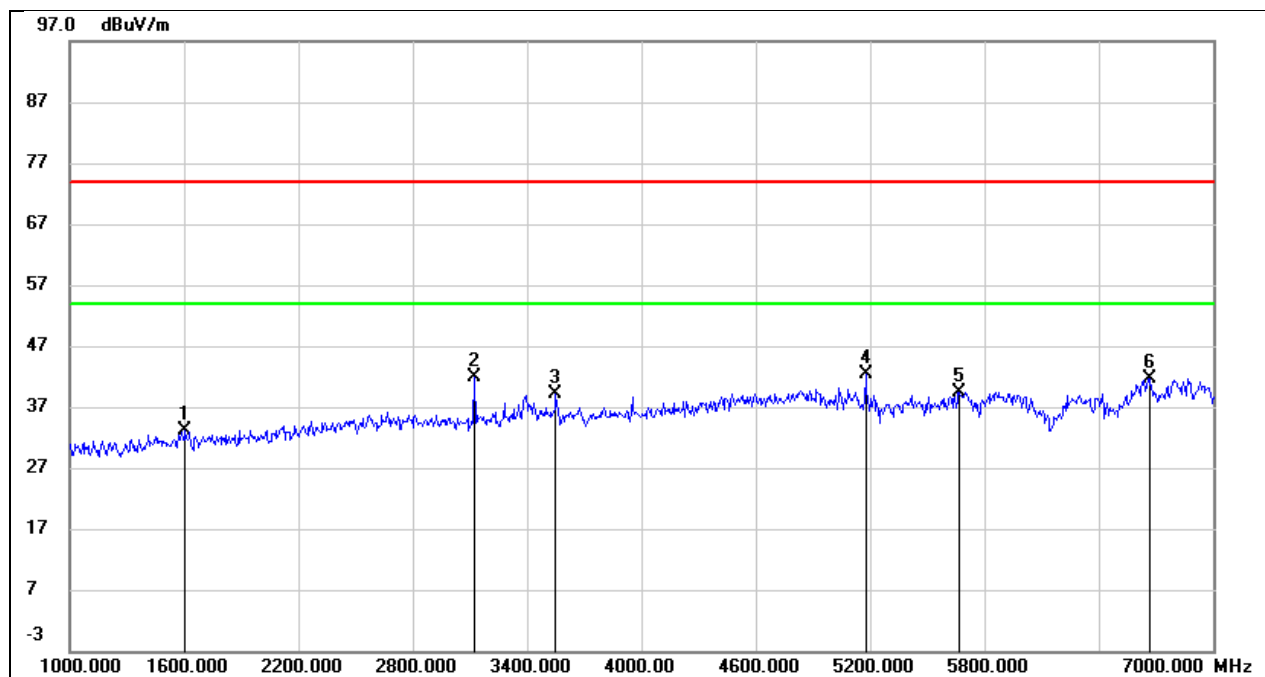
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1606.000	45.41	-12.36	33.05	74.00	-40.95	peak
2	3124.000	48.64	-6.70	41.94	74.00	-32.06	peak
3	3550.000	44.88	-5.71	39.17	74.00	-34.83	peak
4	5176.000	42.21	0.05	42.26	74.00	-31.74	peak
5	5668.000	38.59	0.91	39.50	74.00	-34.50	peak
6	6664.000	37.13	4.54	41.67	74.00	-32.33	peak

Test Mode:	802.11a 20	Channel:	5180
Polarity:	Vertical	Test Voltage:	DC 12 V
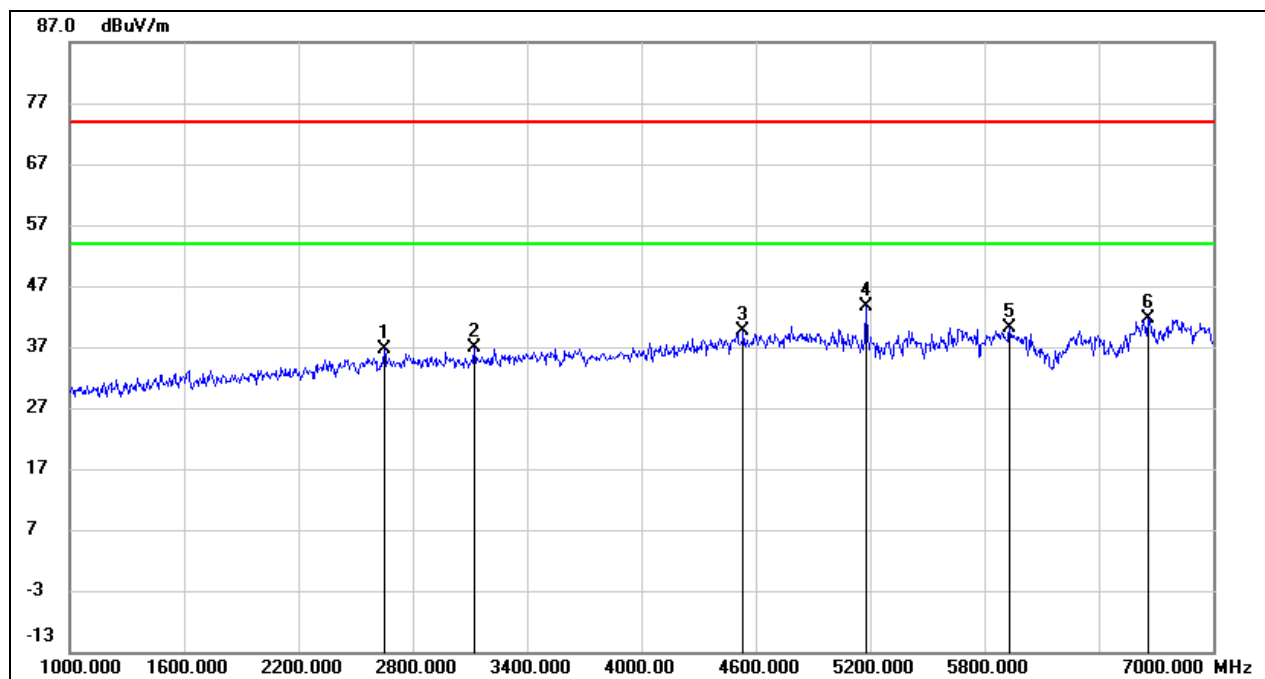
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2650.000	44.62	-8.03	36.59	74.00	-37.41	peak
2	3124.000	43.48	-6.70	36.78	74.00	-37.22	peak
3	4534.000	41.56	-2.01	39.55	74.00	-34.45	peak
4	5176.000	43.46	0.05	43.51	74.00	-30.49	peak
5	5932.000	38.54	1.65	40.19	74.00	-33.81	peak
6	6658.000	37.16	4.49	41.65	74.00	-32.35	peak

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Test Mode:	802.11a 20	Channel:	5200
Polarity:	Horizontal	Test Voltage:	DC 12 V
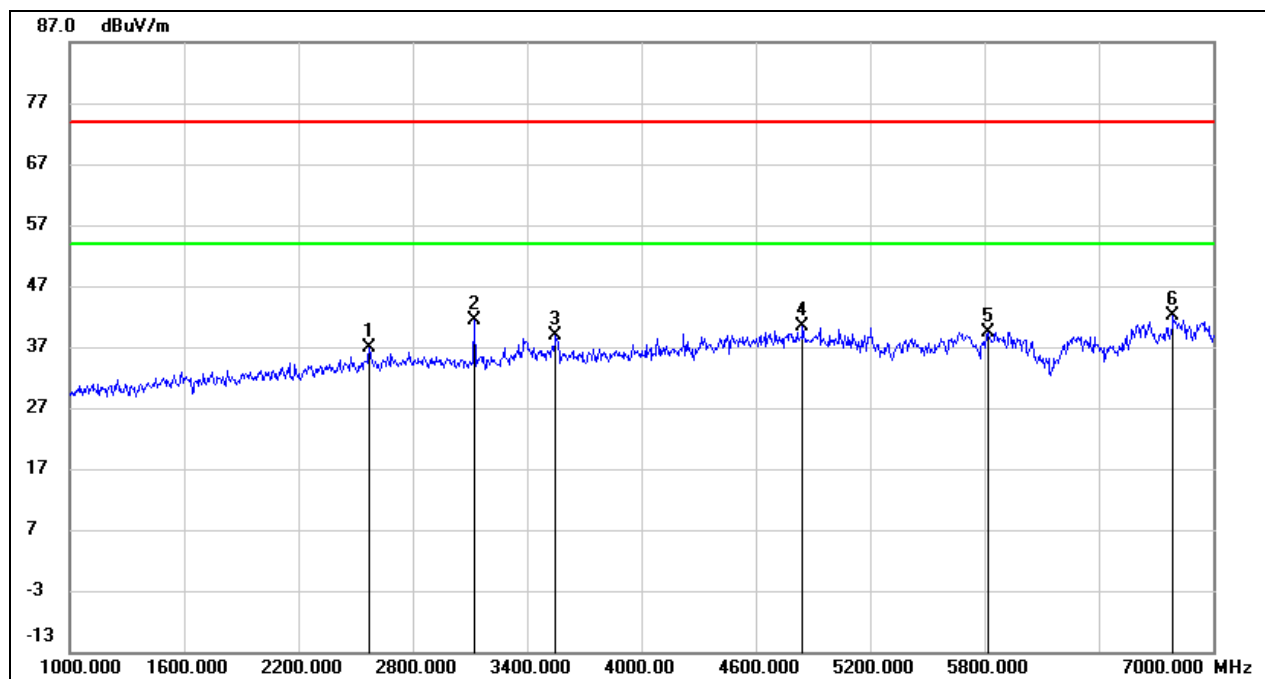
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2572.000	45.15	-8.27	36.88	74.00	-37.12	peak
2	3124.000	48.16	-6.70	41.46	74.00	-32.54	peak
3	3550.000	44.52	-5.71	38.81	74.00	-35.19	peak
4	4846.000	41.21	-0.77	40.44	74.00	-33.56	peak
5	5818.000	38.09	1.33	39.42	74.00	-34.58	peak
6	6790.000	36.93	5.15	42.08	74.00	-31.92	peak

Test Mode:	802.11a 20	Channel:	5200
Polarity:	Vertical	Test Voltage:	DC 12 V
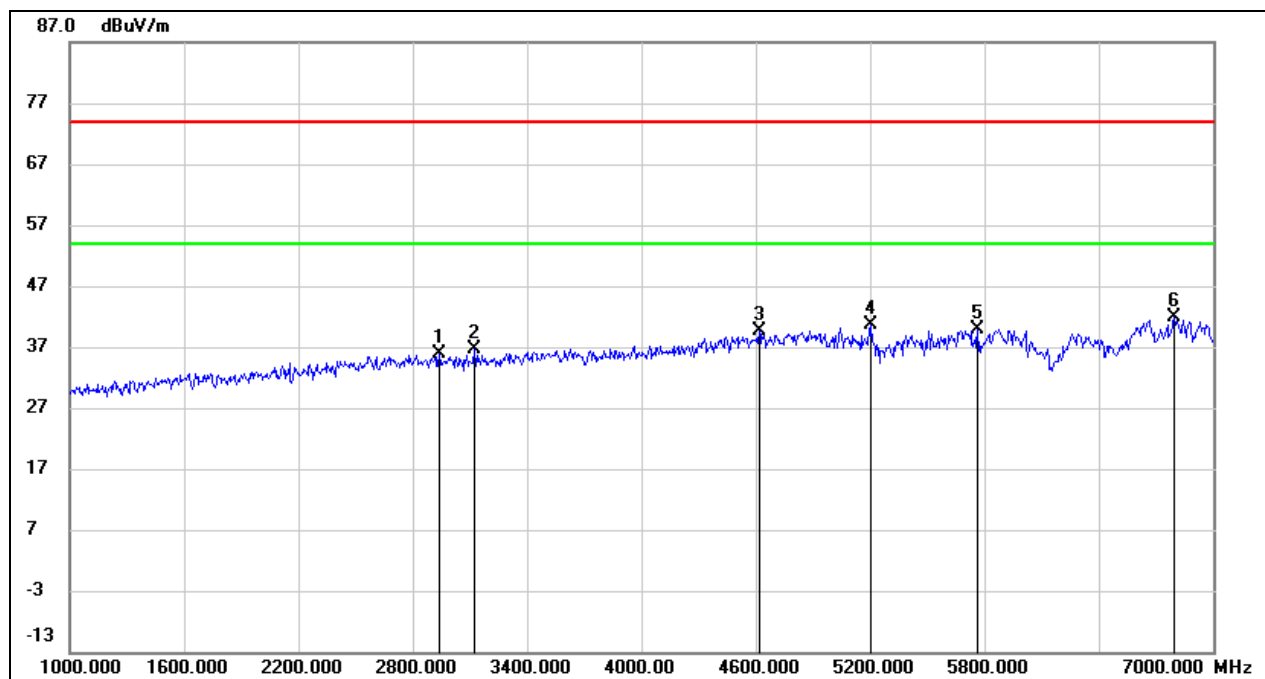
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2938.000	42.94	-7.16	35.78	74.00	-38.22	peak
2	3124.000	43.35	-6.70	36.65	74.00	-37.35	peak
3	4618.000	41.19	-1.67	39.52	74.00	-34.48	peak
4	5206.000	40.43	0.08	40.51	74.00	-33.49	peak
5	5764.000	38.72	1.17	39.89	74.00	-34.11	peak
6	6796.000	36.70	5.19	41.89	74.00	-32.11	peak

Test Mode:	802.11a 20	Channel:	5240
Polarity:	Horizontal	Test Voltage:	DC 12 V
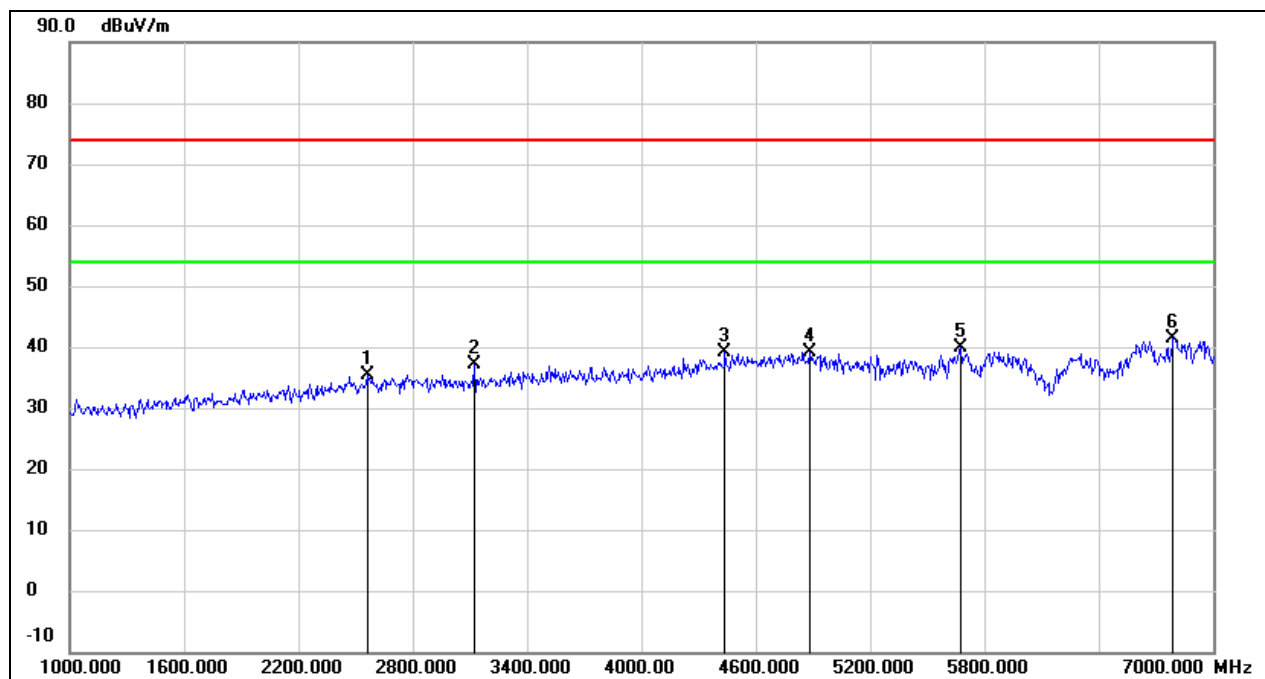
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2560.000	43.77	-8.31	35.46	74.00	-38.54	peak
2	3124.000	43.92	-6.70	37.22	74.00	-36.78	peak
3	4438.000	41.49	-2.42	39.07	74.00	-34.93	peak
4	4882.000	39.86	-0.62	39.24	74.00	-34.76	peak
5	5674.000	38.93	0.92	39.85	74.00	-34.15	peak
6	6790.000	36.19	5.15	41.34	74.00	-32.66	peak

Test Mode:	802.11a 20	Channel:	5240
Polarity:	Vertical	Test Voltage:	DC 12 V
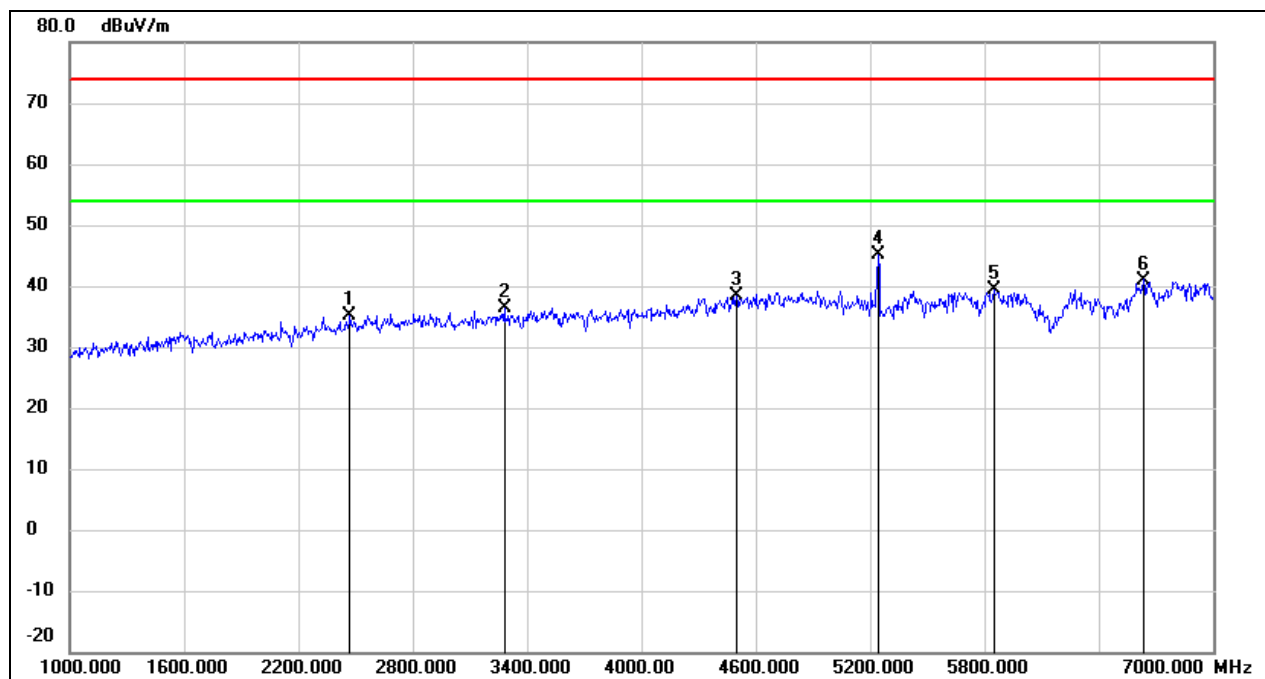
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2470.000	43.89	-8.65	35.24	74.00	-38.76	peak
2	3280.000	42.79	-6.35	36.44	74.00	-37.56	peak
3	4498.000	40.50	-2.14	38.36	74.00	-35.64	peak
4	5242.000	44.97	0.12	45.09	74.00	-28.91	peak
5	5848.000	37.87	1.41	39.28	74.00	-34.72	peak
6	6634.000	36.62	4.38	41.00	74.00	-33.00	peak

Test Mode:	802.11a 20	Channel:	5745
Polarity:	Horizontal	Test Voltage:	DC 12 V
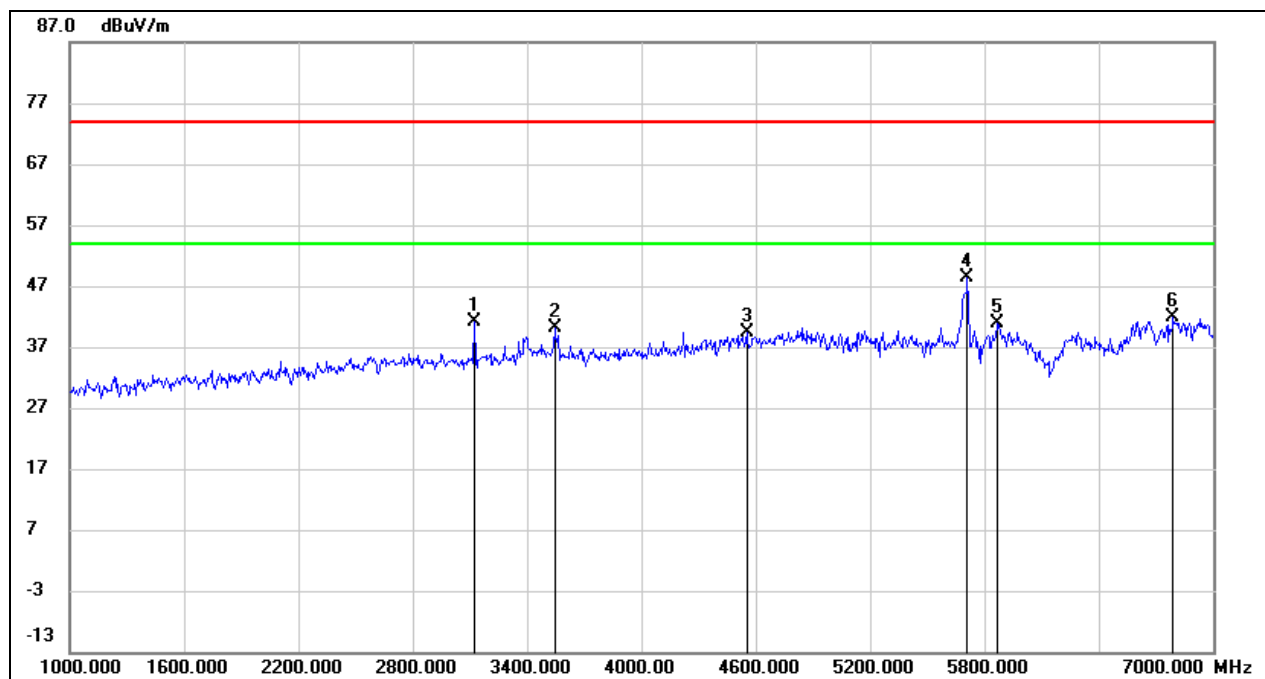
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3124.000	47.95	-6.70	41.25	74.00	-32.75	peak
2	3544.000	45.96	-5.73	40.23	74.00	-33.77	peak
3	4552.000	41.19	-1.93	39.26	74.00	-34.74	peak
4	5710.000	47.27	1.02	48.29	74.00	-25.71	peak
5	5866.000	39.46	1.47	40.93	74.00	-33.07	peak
6	6790.000	36.77	5.15	41.92	74.00	-32.08	peak

Test Mode:	802.11a 20	Channel:	5745
Polarity:	Vertical	Test Voltage:	DC 12 V
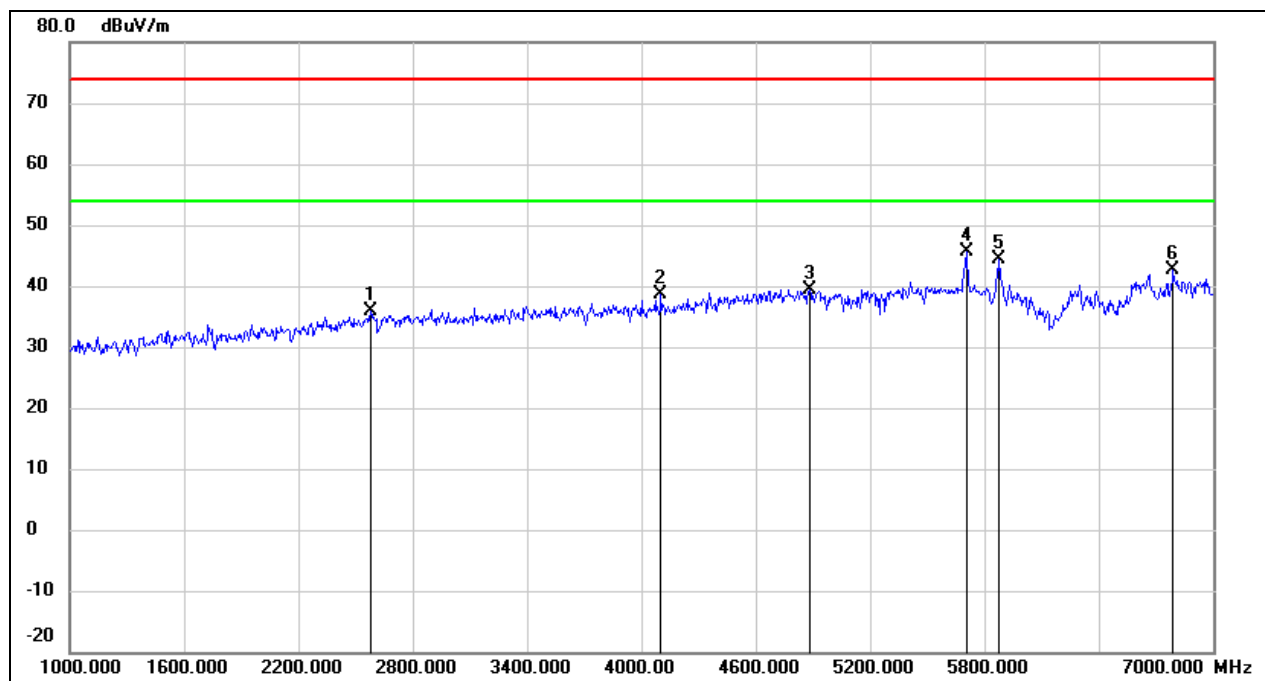
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2578.000	44.05	-8.26	35.79	74.00	-38.21	peak
2	4102.000	42.72	-4.01	38.71	74.00	-35.29	peak
3	4882.000	39.98	-0.62	39.36	74.00	-34.64	peak
4	5704.000	44.72	1.00	45.72	74.00	-28.28	peak
5	5878.000	42.88	1.51	44.39	74.00	-29.61	peak
6	6790.000	37.58	5.15	42.73	74.00	-31.27	peak

Test Mode:	802.11a 20	Channel:	5785
Polarity:	Horizontal	Test Voltage:	DC 12 V
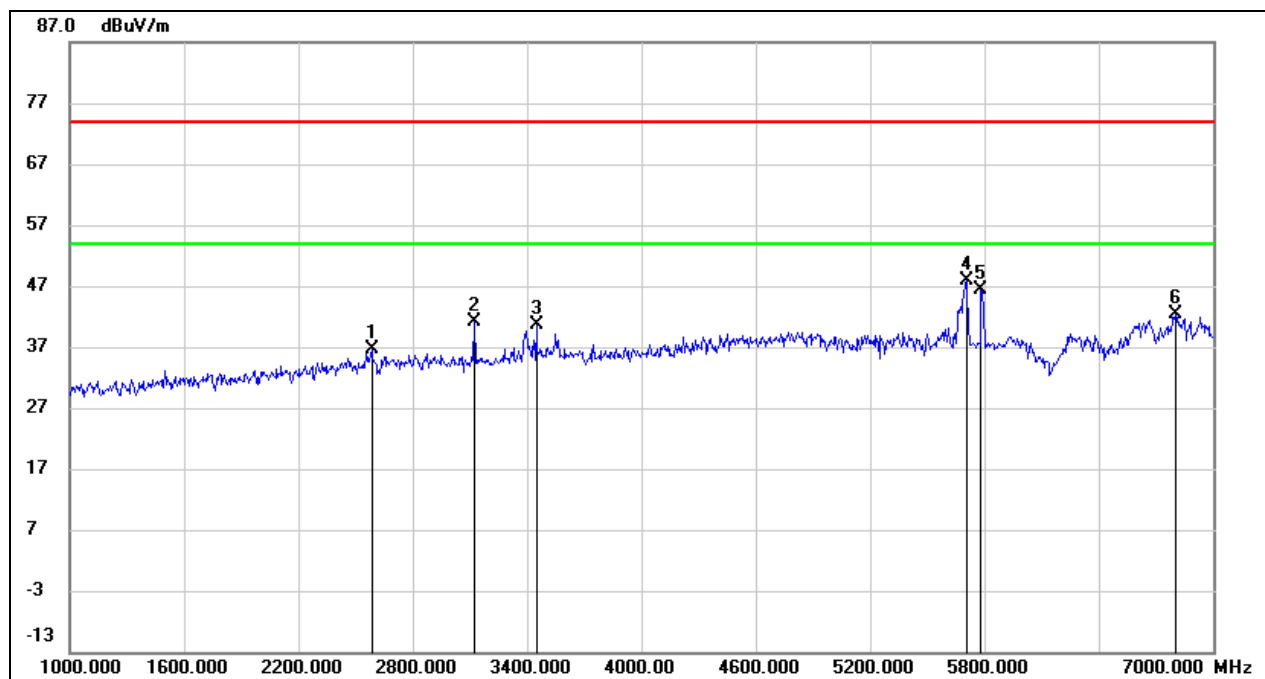
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2584.000	44.76	-8.24	36.52	74.00	-37.48	peak
2	3124.000	47.80	-6.70	41.10	74.00	-32.90	peak
3	3448.000	46.57	-5.96	40.61	74.00	-33.39	peak
4	5704.000	46.90	1.00	47.90	74.00	-26.10	peak
5	5782.000	45.15	1.23	46.38	74.00	-27.62	peak
6	6802.000	37.25	5.21	42.46	74.00	-31.54	peak

Test Mode:	802.11a 20	Channel:	5785
Polarity:	Vertical	Test Voltage:	DC 12 V
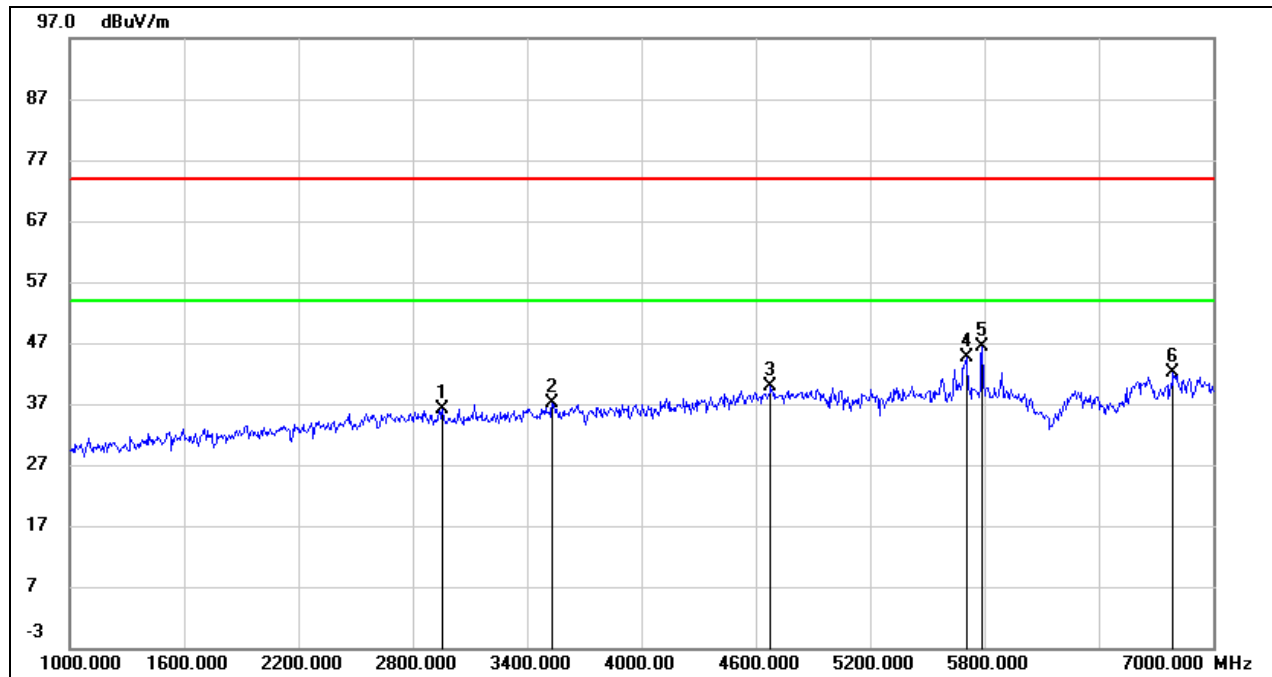
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2956.000	43.27	-7.11	36.16	74.00	-37.84	peak
2	3532.000	42.82	-5.77	37.05	74.00	-36.95	peak
3	4678.000	41.24	-1.44	39.80	74.00	-34.20	peak
4	5704.000	43.57	1.00	44.57	74.00	-29.43	peak
5	5788.000	45.18	1.25	46.43	74.00	-27.57	peak
6	6790.000	36.88	5.15	42.03	74.00	-31.97	peak

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Test Mode:	802.11a 20	Channel:	5825
Polarity:	Horizontal	Test Voltage:	DC 12 V
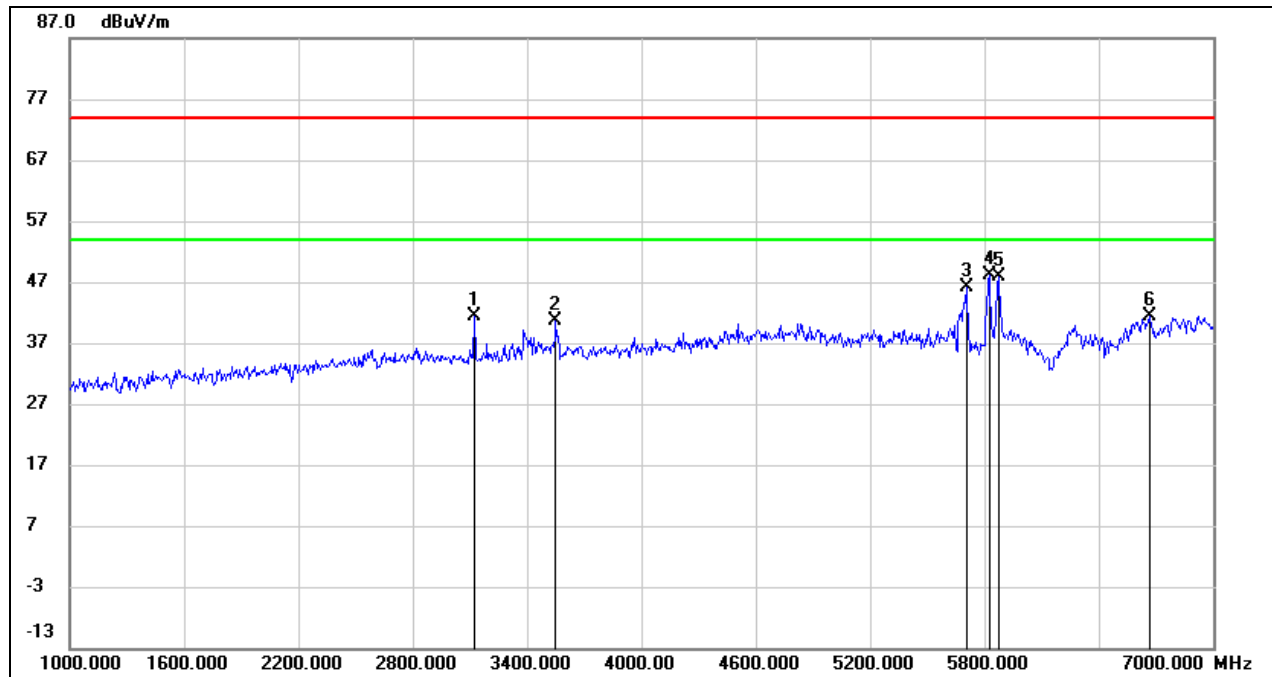
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3124.000	48.12	-6.70	41.42	74.00	-32.58	peak
2	3550.000	46.27	-5.71	40.56	74.00	-33.44	peak
3	5704.000	45.10	1.00	46.10	74.00	-27.90	peak
4	5824.000	46.84	1.34	48.18	74.00	-25.82	peak
5	5872.000	46.29	1.48	47.77	74.00	-26.23	peak
6	6664.000	36.92	4.54	41.46	74.00	-32.54	peak

Test Mode:	802.11a 20	Channel:	5825
Polarity:	Vertical	Test Voltage:	DC 12 V
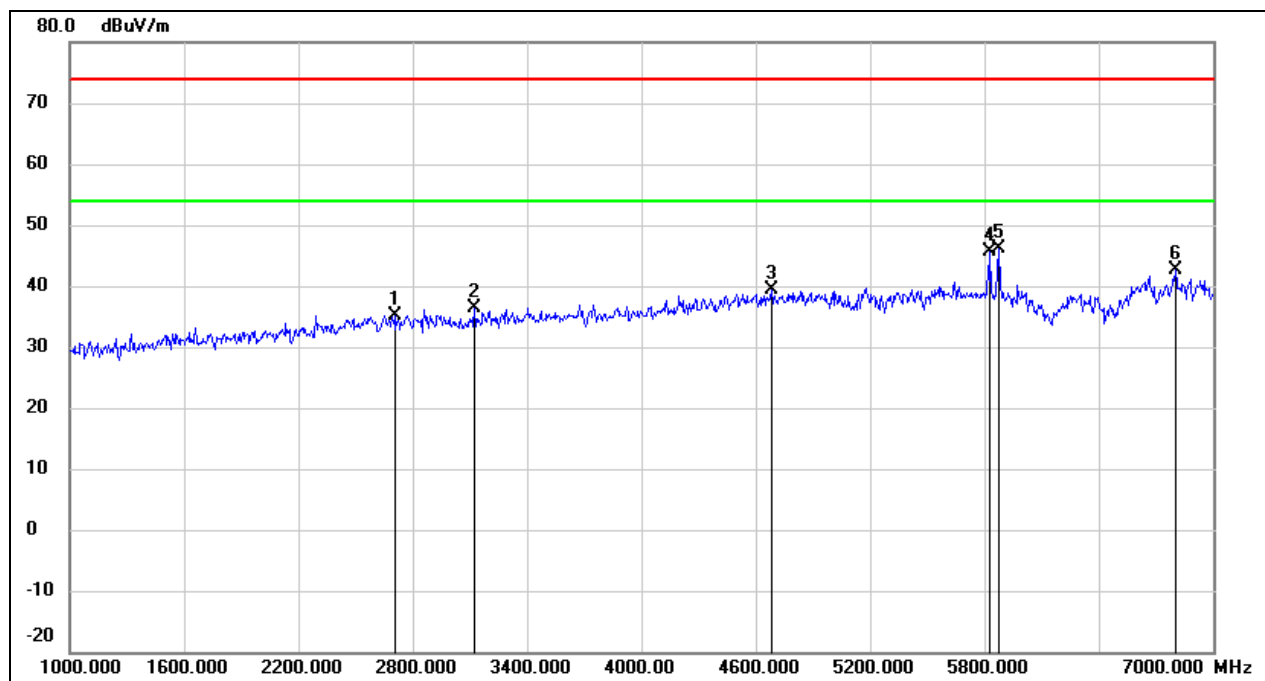
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2704.000	43.03	-7.87	35.16	74.00	-38.84	peak
2	3124.000	43.08	-6.70	36.38	74.00	-37.62	peak
3	4684.000	40.66	-1.40	39.26	74.00	-34.74	peak
4	5830.000	44.22	1.36	45.58	74.00	-28.42	peak
5	5878.000	44.58	1.51	46.09	74.00	-27.91	peak
6	6802.000	37.30	5.21	42.51	74.00	-31.49	peak

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8.3. SPURIOUS EMISSIONS(7 GHZ~18 GHZ)

Test Mode:	802.11a 20	Channel:	5180
Polarity:	Horizontal	Test Voltage:	DC 12 V
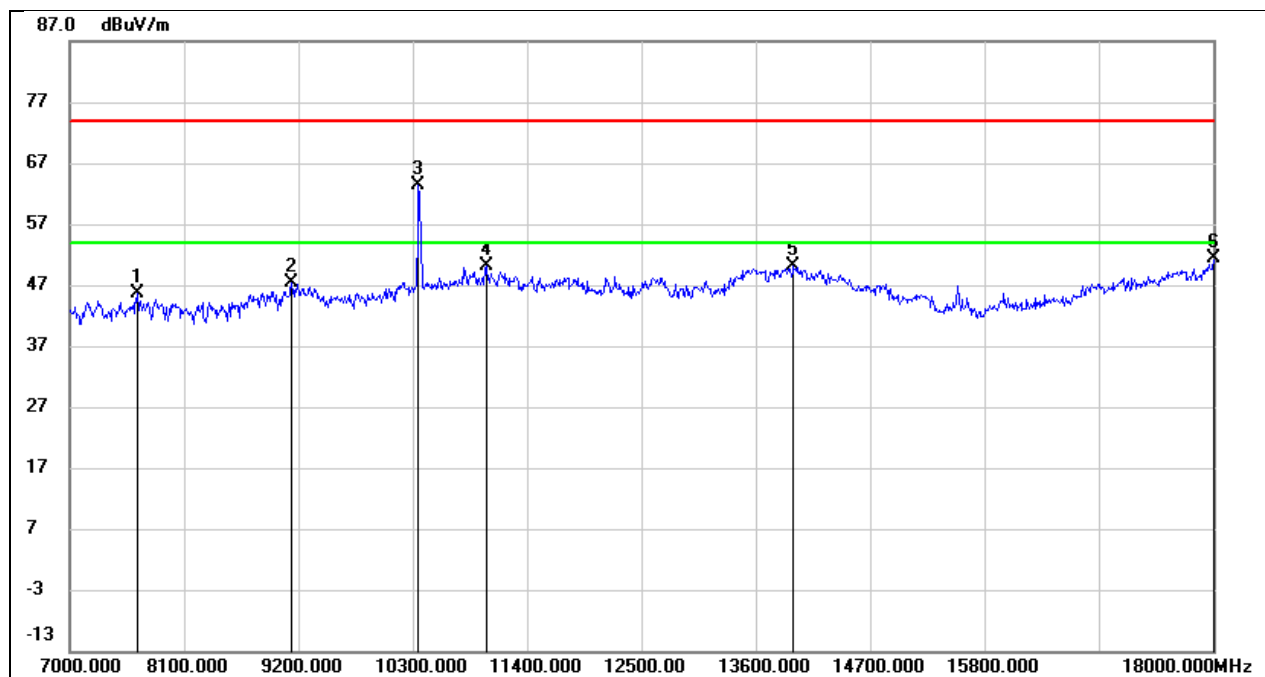
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	38.80	6.74	45.54	74.00	-28.46	peak
2	9134.000	36.89	10.41	47.30	74.00	-26.70	peak
3*	10355.000	50.84	12.52	63.36	68.20	-4.84	peak
4	11004.000	35.44	14.74	50.18	74.00	-23.82	peak
5	13963.000	28.41	21.78	50.19	74.00	-23.81	peak
6	18000.000	25.30	26.12	51.42	74.00	-22.58	peak

Test Mode:	802.11a 20	Channel:	5180
Polarity:	Vertical	Test Voltage:	DC 12 V
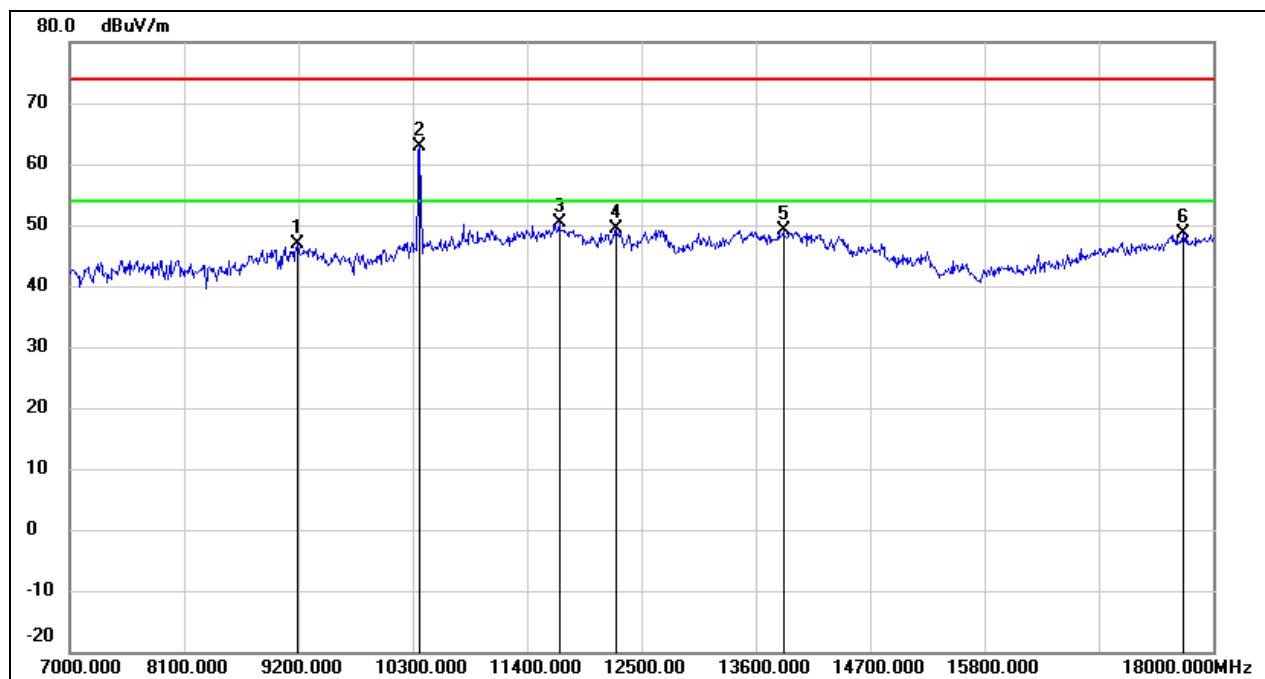
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9189.000	36.41	10.46	46.87	74.00	-27.13	peak
2*	10366.000	50.23	12.54	62.77	68.20	-5.43	peak
3	11708.000	33.28	17.16	50.44	74.00	-23.56	peak
4	12258.000	31.56	17.77	49.33	74.00	-24.67	peak
5	13864.000	27.55	21.53	49.08	74.00	-24.92	peak
6	17714.000	24.55	24.16	48.71	74.00	-25.29	peak

Test Mode:	802.11a 20	Channel:	5200
Polarity:	Horizontal	Test Voltage:	DC 12 V
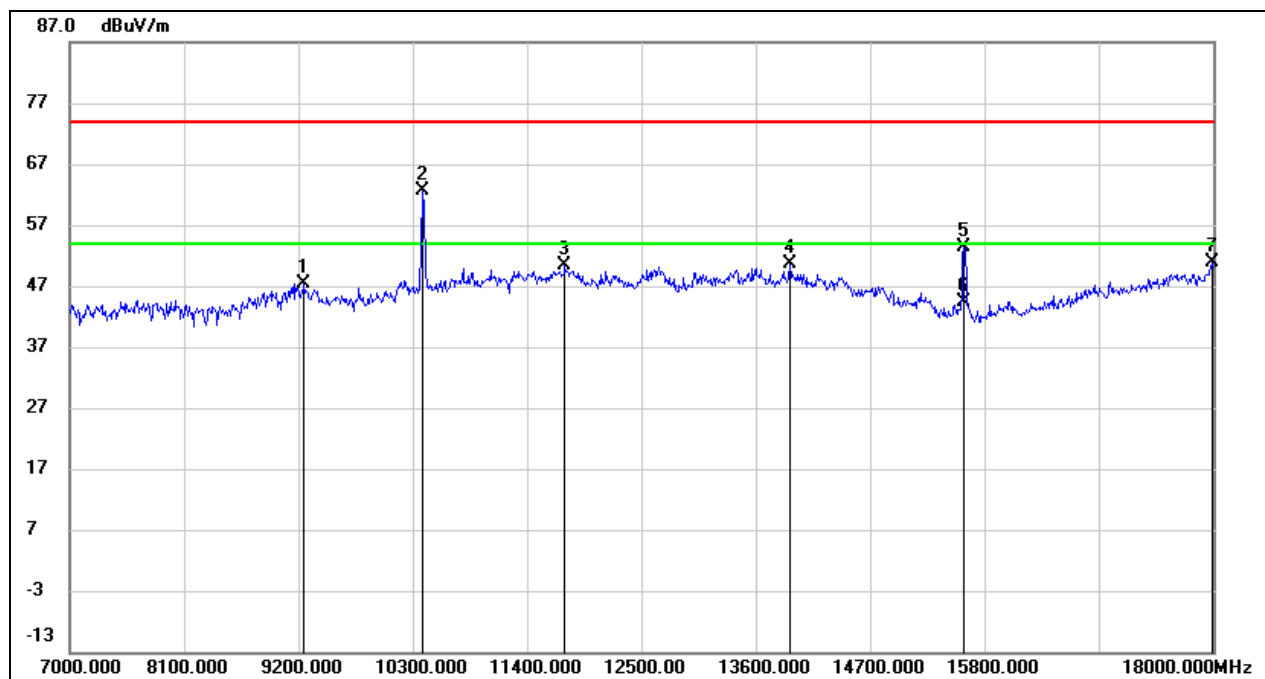
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9255.000	36.99	10.51	47.50	74.00	-26.50	peak
2*	10399.000	50.11	12.61	62.72	68.20	-5.48	peak
3	11763.000	33.24	17.26	50.50	74.00	-23.50	peak
4	13930.000	28.86	21.71	50.57	74.00	-23.43	peak
5	15602.000	36.57	16.75	53.32	74.00	-20.68	peak
6	15602.000	27.70	16.75	44.45	54.00	-9.55	AVG
7	17989.000	24.79	26.04	50.83	74.00	-23.17	peak

Test Mode:	802.11a 20	Channel:	5200
Polarity:	Vertical	Test Voltage:	DC 12 V
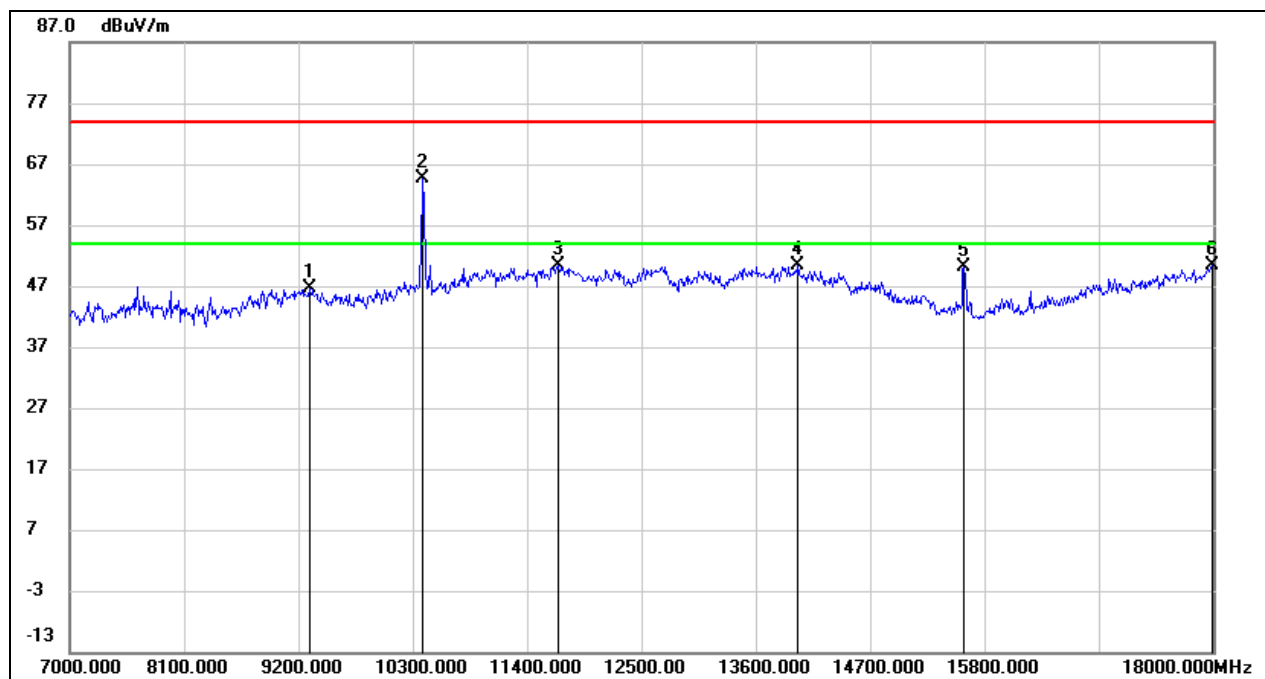
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9310.000	35.97	10.54	46.51	74.00	-27.49	peak
2*	10399.000	52.10	12.61	64.71	68.20	-3.49	peak
3	11697.000	33.25	17.13	50.38	74.00	-23.62	peak
4	14007.000	28.58	21.85	50.43	74.00	-23.57	peak
5	15602.000	33.41	16.75	50.16	74.00	-23.84	peak
6	17989.000	24.39	26.04	50.43	74.00	-23.57	peak

Test Mode:	802.11a 20	Channel:	5240
Polarity:	Horizontal	Test Voltage:	DC 12 V
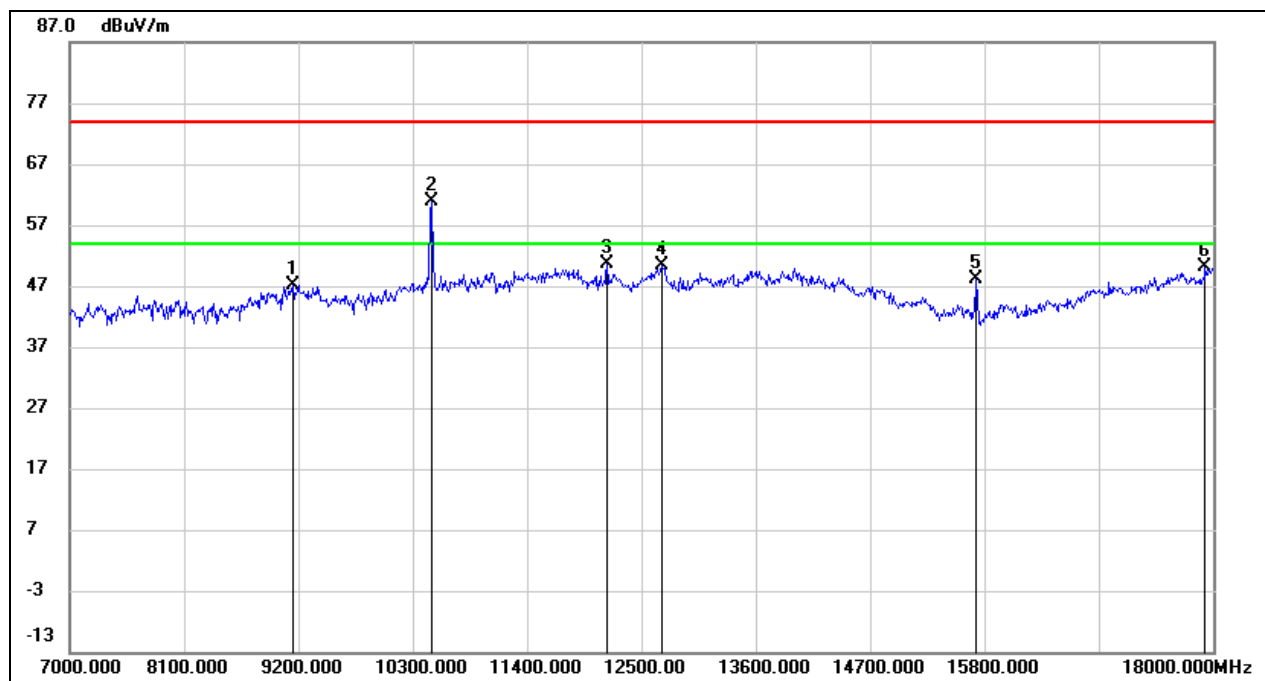
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9145.000	36.68	10.43	47.11	74.00	-26.89	peak
2*	10476.000	48.00	12.77	60.77	68.20	-7.43	peak
3	12170.000	32.97	17.75	50.72	74.00	-23.28	peak
4	12698.000	32.37	18.08	50.45	74.00	-23.55	peak
5	15723.000	31.34	16.81	48.15	74.00	-25.85	peak
6	17923.000	24.52	25.60	50.12	74.00	-23.88	peak

Test Mode:	802.11a 20	Channel:	5240
Polarity:	Vertical	Test Voltage:	DC 12 V
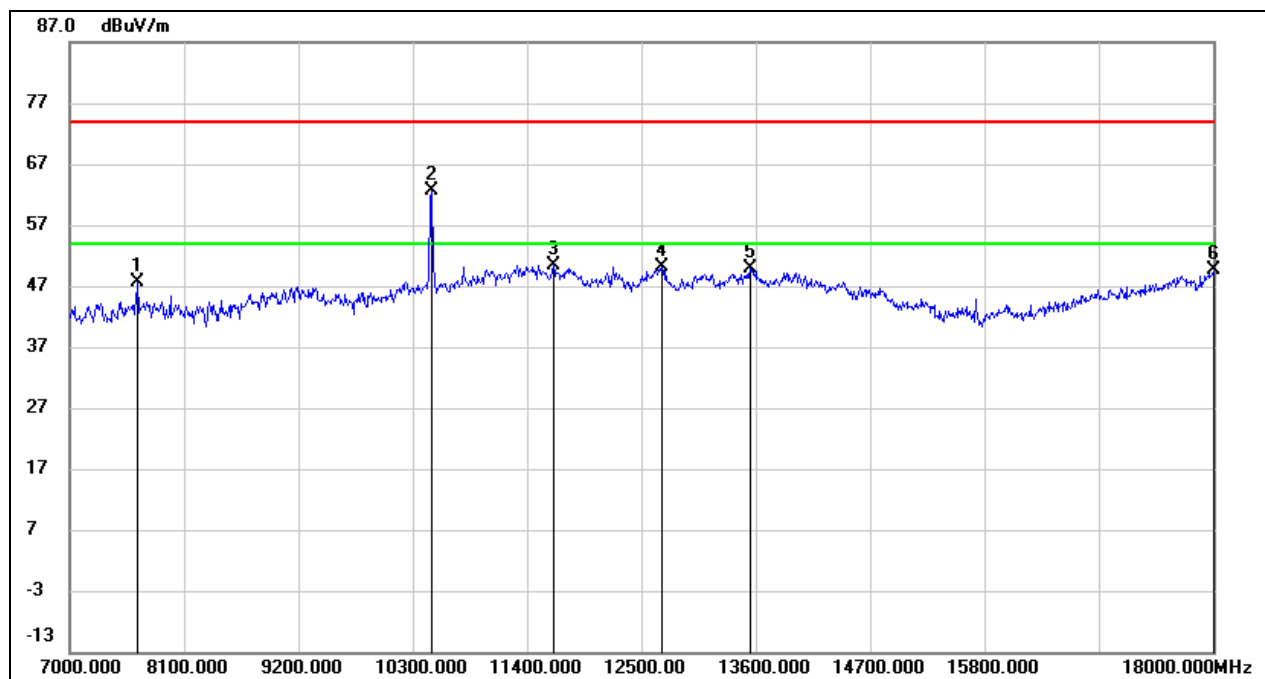
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.90	6.74	47.64	74.00	-26.36	peak
2*	10476.000	49.94	12.77	62.71	68.20	-5.49	peak
3	11653.000	33.40	17.05	50.45	74.00	-23.55	peak
4	12698.000	32.02	18.08	50.10	74.00	-23.90	peak
5	13545.000	29.11	20.75	49.86	74.00	-24.14	peak
6	18000.000	23.40	26.12	49.52	74.00	-24.48	peak

Test Mode:	802.11a 20	Channel:	5745
Polarity:	Horizontal	Test Voltage:	DC 12 V
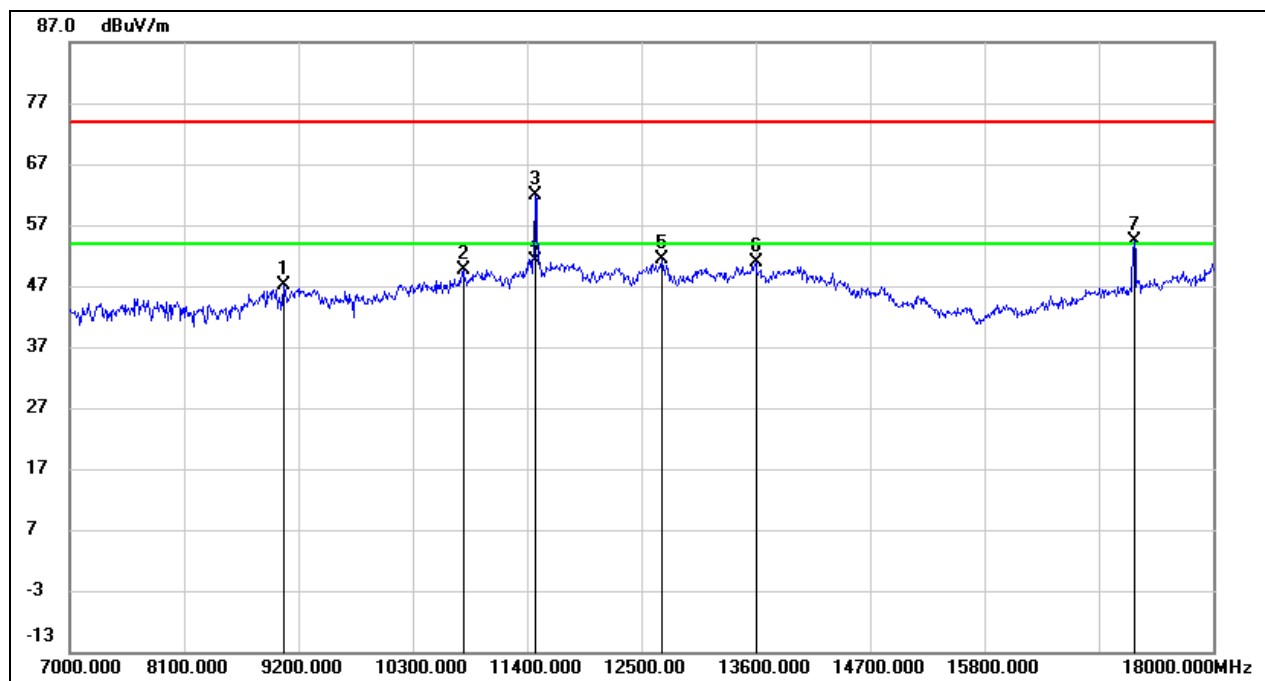
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9057.000	36.81	10.38	47.19	74.00	-26.81	peak
2	10784.000	35.77	13.91	49.68	74.00	-24.32	peak
3	11477.000	45.10	16.67	61.77	74.00	-12.23	peak
4	11477.000	34.49	16.67	51.16	54.00	-2.84	AVG
5	12698.000	33.37	18.08	51.45	74.00	-22.55	peak
6	13600.000	29.90	20.89	50.79	74.00	-23.21	peak
7*	17241.000	32.83	21.62	54.45	74.00	-19.55	peak

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Test Mode:	802.11a 20	Channel:	5745
Polarity:	Vertical	Test Voltage:	DC 12 V
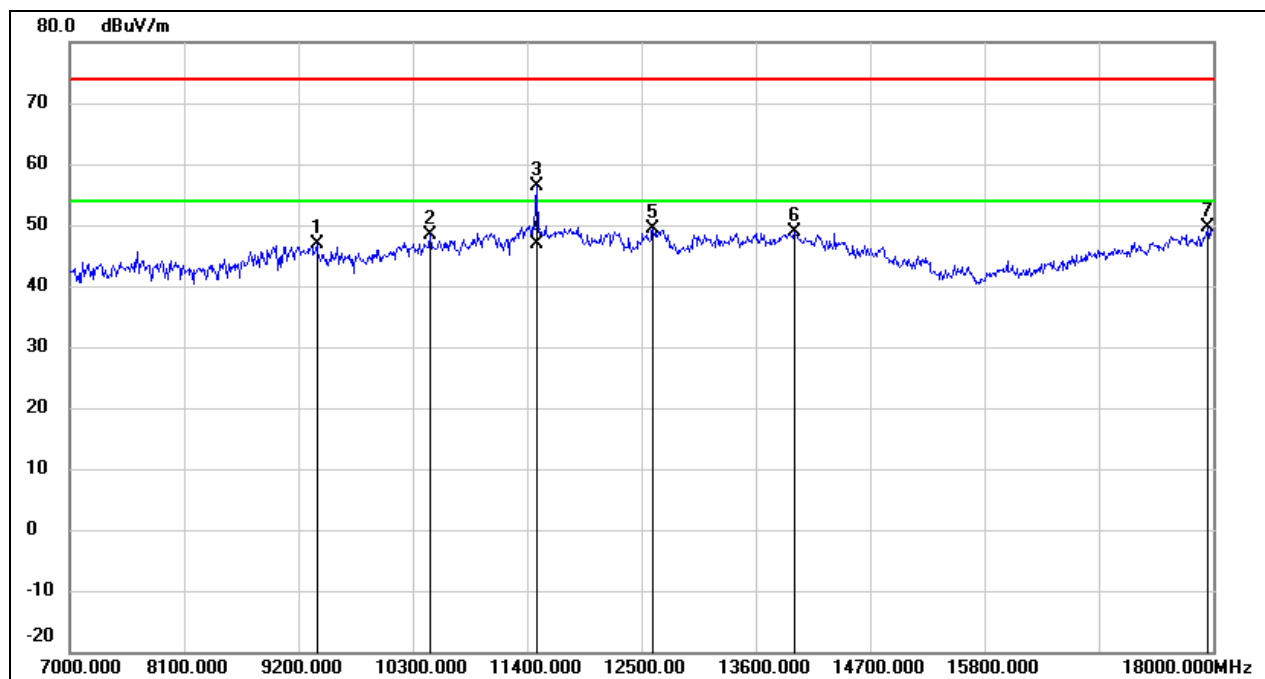
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9376.000	36.24	10.58	46.82	74.00	-27.18	peak
2	10465.000	35.62	12.75	48.37	74.00	-25.63	peak
3	11488.000	39.72	16.72	56.44	74.00	-17.56	peak
4	11488.000	30.18	16.72	46.90	54.00	-7.10	AVG
5	12610.000	31.32	17.97	49.29	74.00	-24.71	peak
6	13974.000	26.95	21.82	48.77	74.00	-25.23	peak
7	17945.000	23.84	25.75	49.59	74.00	-24.41	peak

Test Mode:	802.11a 20	Channel:	5785
Polarity:	Horizontal	Test Voltage:	DC 12 V
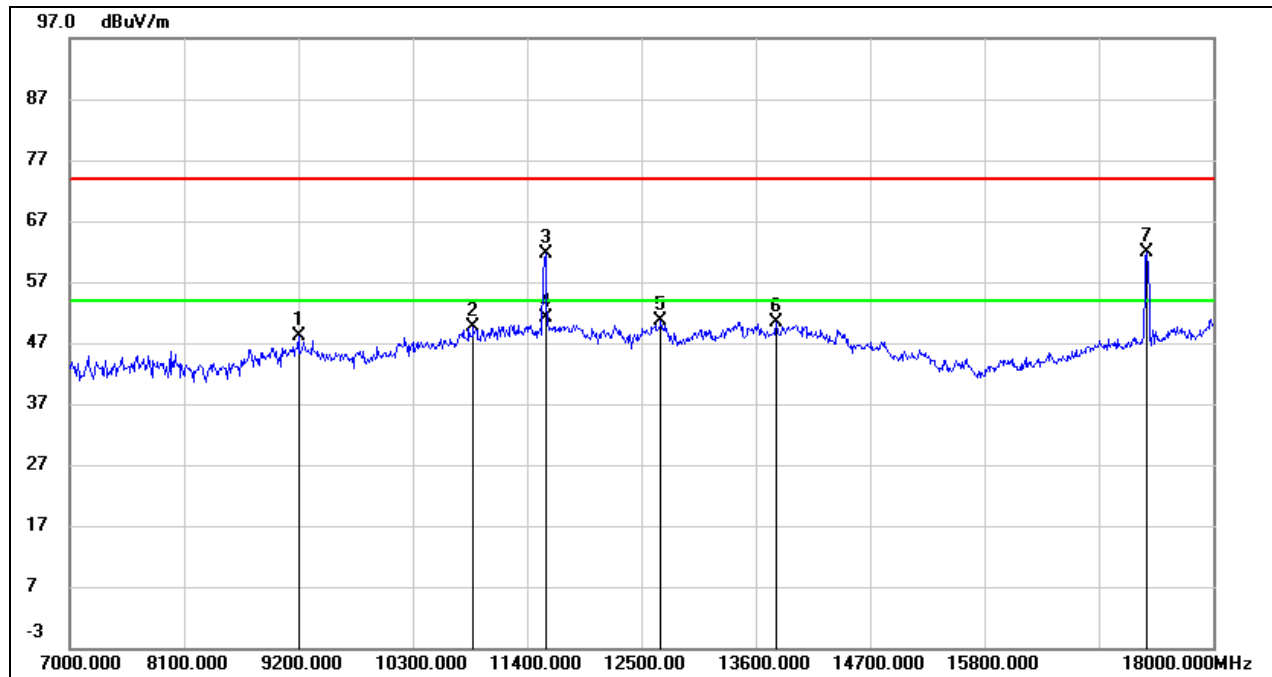
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9200.000	37.58	10.46	48.04	74.00	-25.96	peak
2	10883.000	35.26	14.27	49.53	74.00	-24.47	peak
3	11576.000	44.60	16.91	61.51	74.00	-12.49	peak
4	11576.000	34.32	16.91	51.23	54.00	-2.77	AVG
5	12687.000	32.68	18.05	50.73	74.00	-23.27	peak
6	13798.000	29.01	21.38	50.39	74.00	-23.61	peak
7*	17362.000	39.74	22.12	61.86	74.00	-12.14	peak

Test Mode:	802.11a 20	Channel:	5785
Polarity:	Vertical	Test Voltage:	DC 12 V
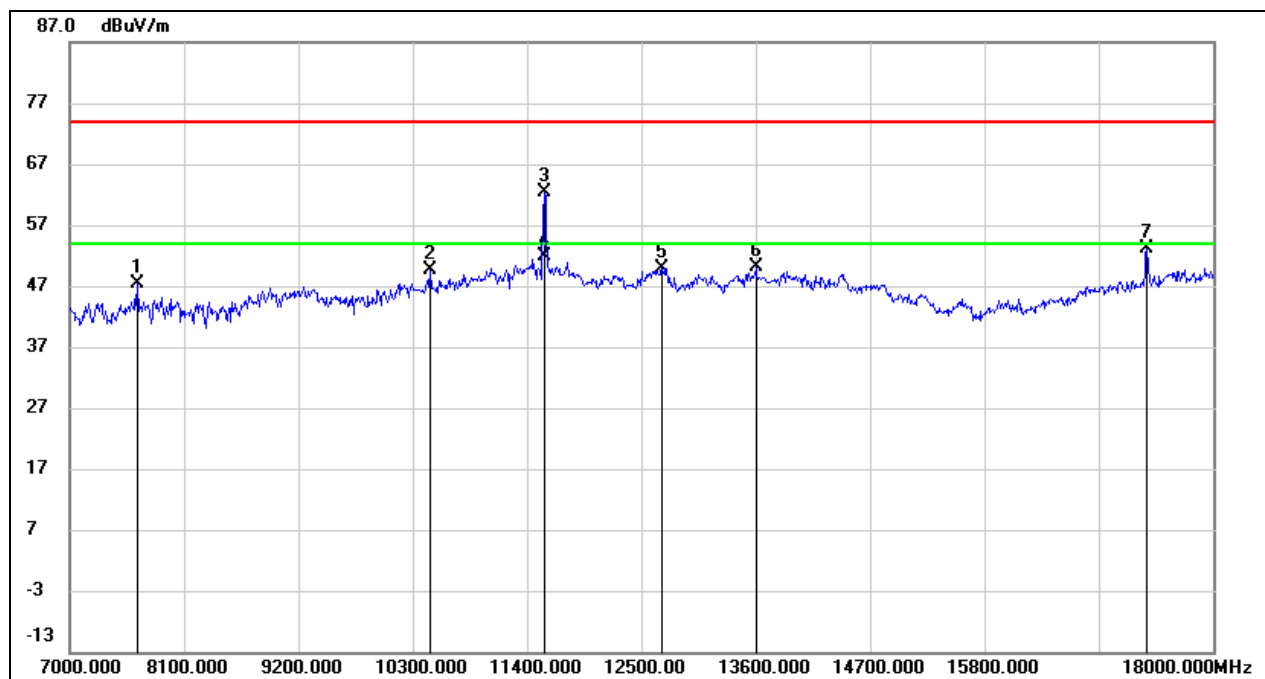
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	40.74	6.74	47.48	74.00	-26.52	peak
2	10465.000	36.87	12.75	49.62	74.00	-24.38	peak
3	11565.000	45.42	16.89	62.31	74.00	-11.69	peak
4	11565.000	34.97	16.89	51.86	54.00	-2.14	AVG
5	12698.000	31.90	18.08	49.98	74.00	-24.02	peak
6	13600.000	29.25	20.89	50.14	74.00	-23.86	peak
7*	17362.000	31.02	22.12	53.14	74.00	-20.86	peak

| Test Mode: | 802.11a 20 | Channel: | 5825 |
| Polarity: | Horizontal | Test Voltage: | DC 12 V |
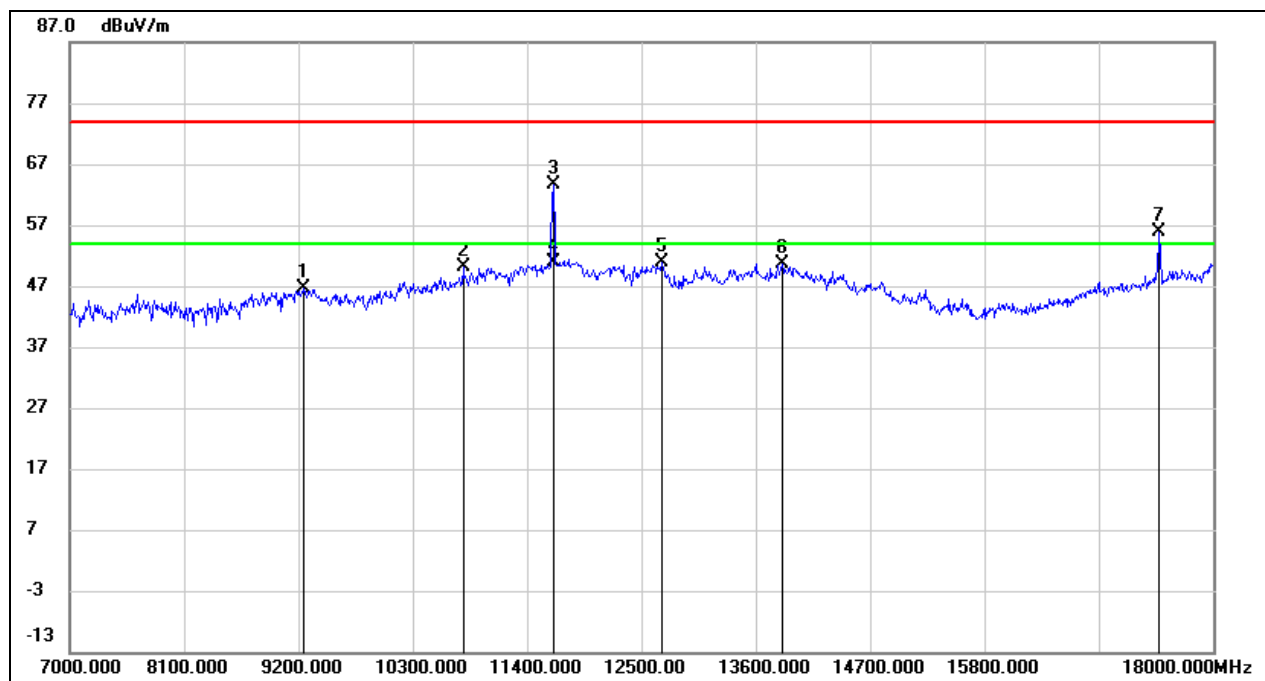
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9255.000	36.13	10.51	46.64	74.00	-27.36	peak
2	10784.000	36.34	13.91	50.25	74.00	-23.75	peak
3	11653.000	46.64	17.05	63.69	74.00	-10.31	peak
4	11653.000	33.83	17.05	50.88	54.00	-3.12	AVG
5	12698.000	32.70	18.08	50.78	74.00	-23.22	peak
6	13853.000	29.21	21.52	50.73	74.00	-23.27	peak
7*	17483.000	33.21	22.62	55.83	74.00	-18.17	peak

Test Mode:	802.11a 20	Channel:	5825
Polarity:	Vertical	Test Voltage:	DC 12 V
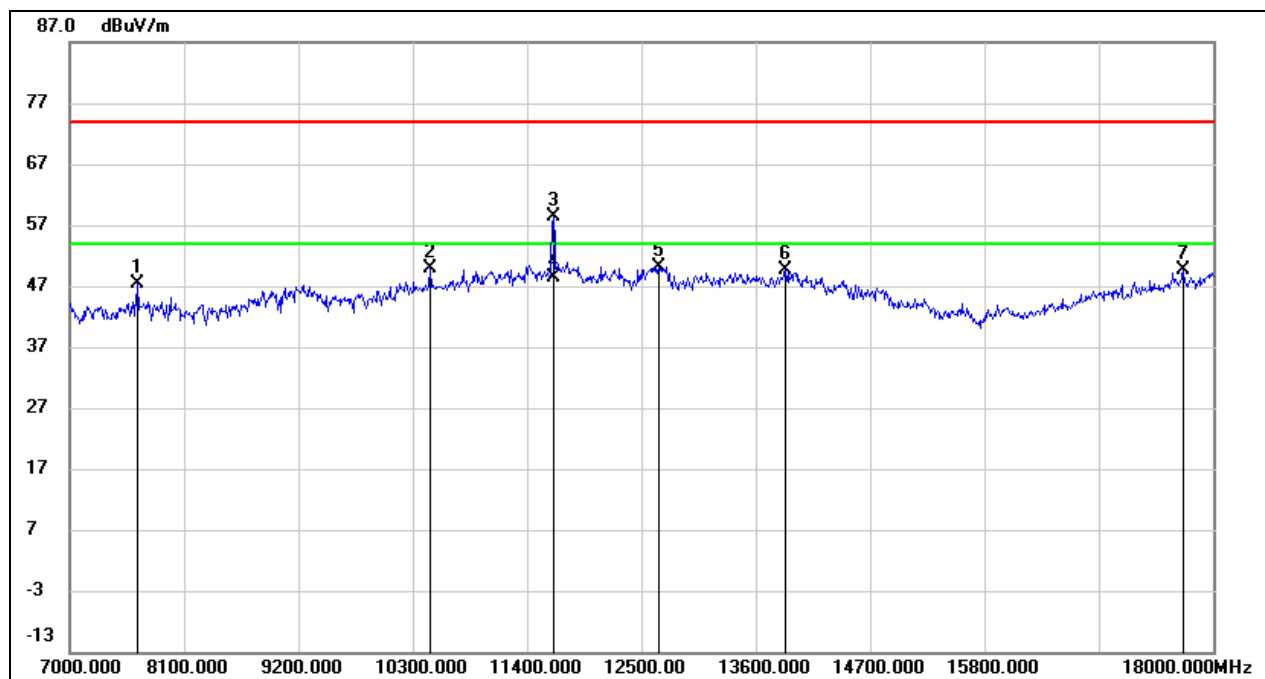
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.66	6.74	47.40	74.00	-26.60	peak
2	10465.000	37.19	12.75	49.94	74.00	-24.06	peak
3	11653.000	41.33	17.05	58.38	74.00	-15.62	peak
4	11653.000	31.40	17.05	48.45	54.00	-5.55	AVG
5	12665.000	32.06	18.04	50.10	74.00	-23.90	peak
6	13886.000	28.10	21.60	49.70	74.00	-24.30	peak
7	17714.000	25.41	24.16	49.57	74.00	-24.43	peak

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Test Mode:	802.11ac VHT20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	DC 12 V
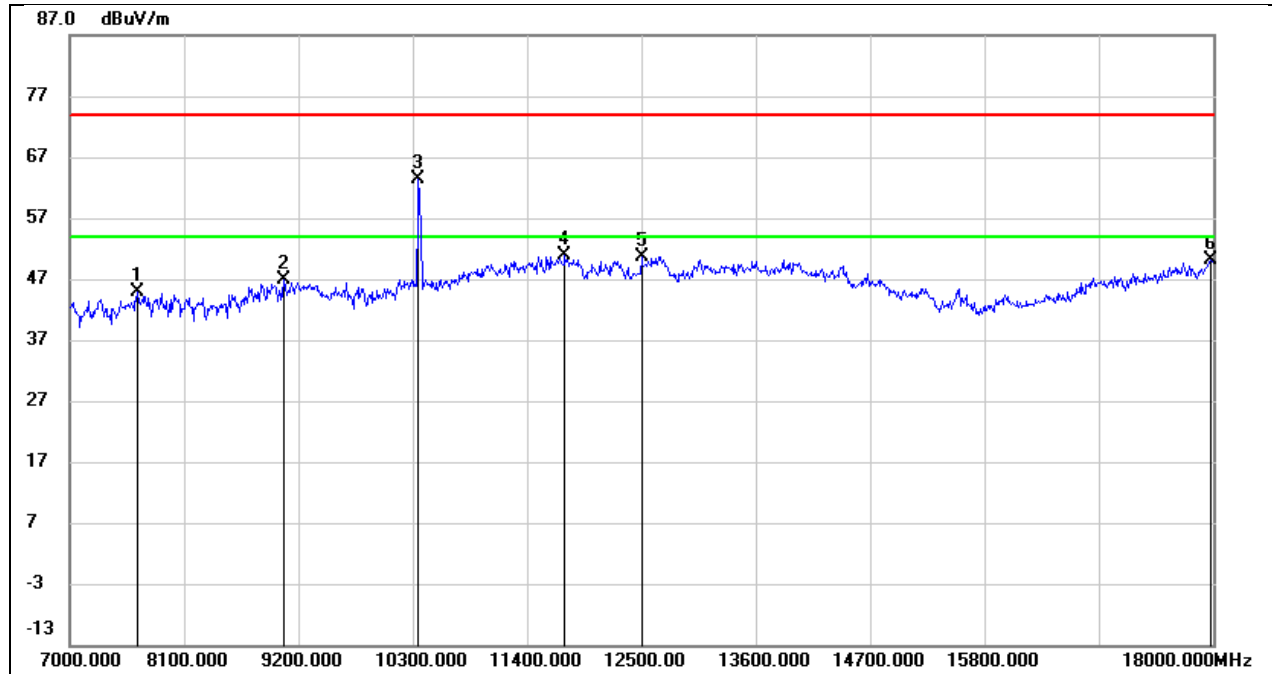
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	38.07	6.74	44.81	74.00	-29.19	peak
2	9057.000	36.40	10.38	46.78	74.00	-27.22	peak
3*	10355.000	50.76	12.52	63.28	68.20	-4.92	peak
4	11763.000	33.55	17.26	50.81	74.00	-23.19	peak
5	12500.000	32.81	17.83	50.64	74.00	-23.36	peak
6	17978.000	24.09	25.97	50.06	74.00	-23.94	peak

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Test Mode:	802.11ac VHT20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	DC 12 V
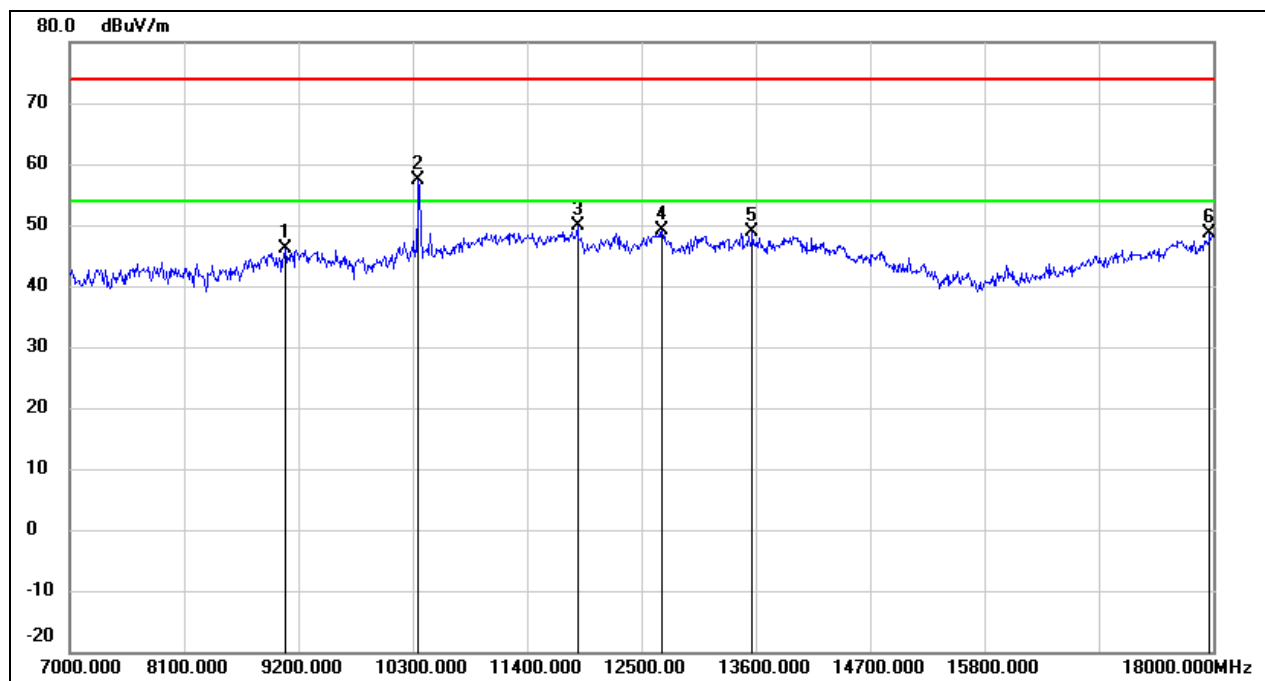
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9079.000	35.64	10.39	46.03	74.00	-27.97	peak
2*	10355.000	44.81	12.52	57.33	68.20	-10.87	peak
3	11884.000	32.36	17.48	49.84	74.00	-24.16	peak
4	12698.000	30.96	18.08	49.04	74.00	-24.96	peak
5	13567.000	28.15	20.80	48.95	74.00	-25.05	peak
6	17967.000	22.62	25.89	48.51	74.00	-25.49	peak

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Test Mode:	802.11ac VHT20	Frequency(MHz):	5200
Polarity:	Horizontal	Test Voltage:	DC 12 V
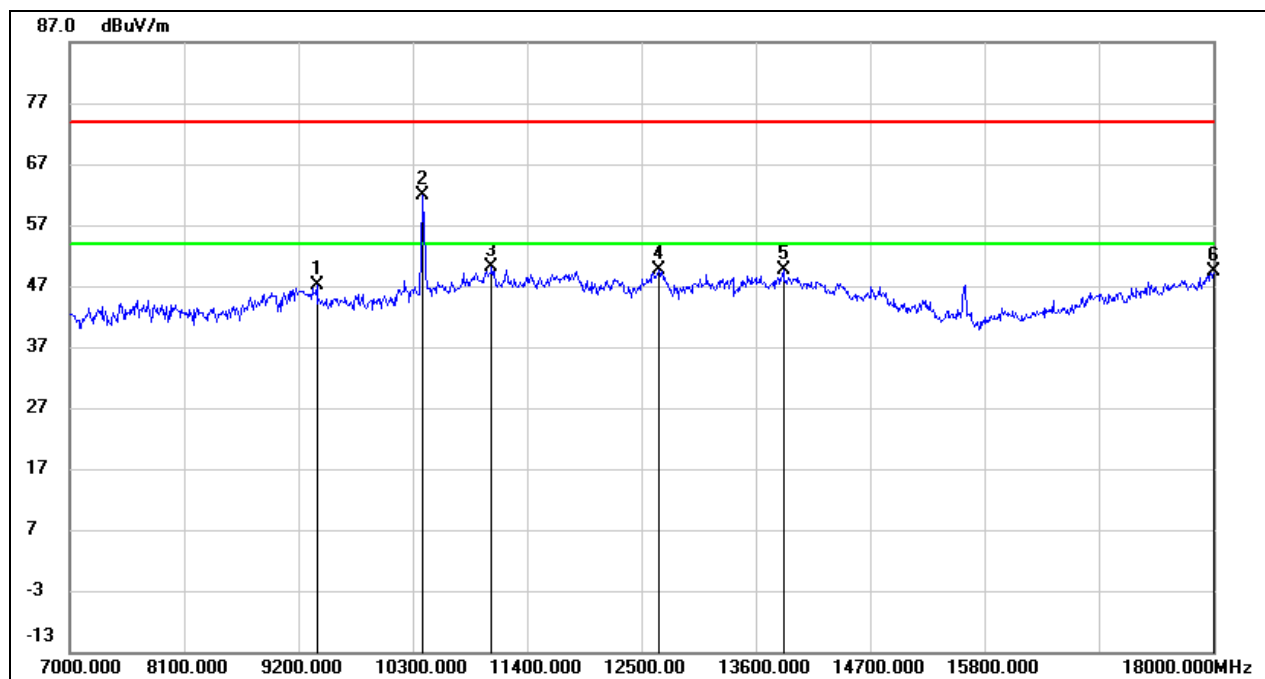
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9376.000	36.56	10.58	47.14	74.00	-26.86	peak
2*	10388.000	49.18	12.59	61.77	68.20	-6.43	peak
3	11059.000	35.24	14.96	50.20	74.00	-23.80	peak
4	12665.000	31.62	18.04	49.66	74.00	-24.34	peak
5	13864.000	28.09	21.53	49.62	74.00	-24.38	peak
6	18000.000	23.23	26.12	49.35	74.00	-24.65	peak

Test Mode:	802.11ac VHT20	Frequency(MHz):	5200
Polarity:	Vertical	Test Voltage:	DC 12 V
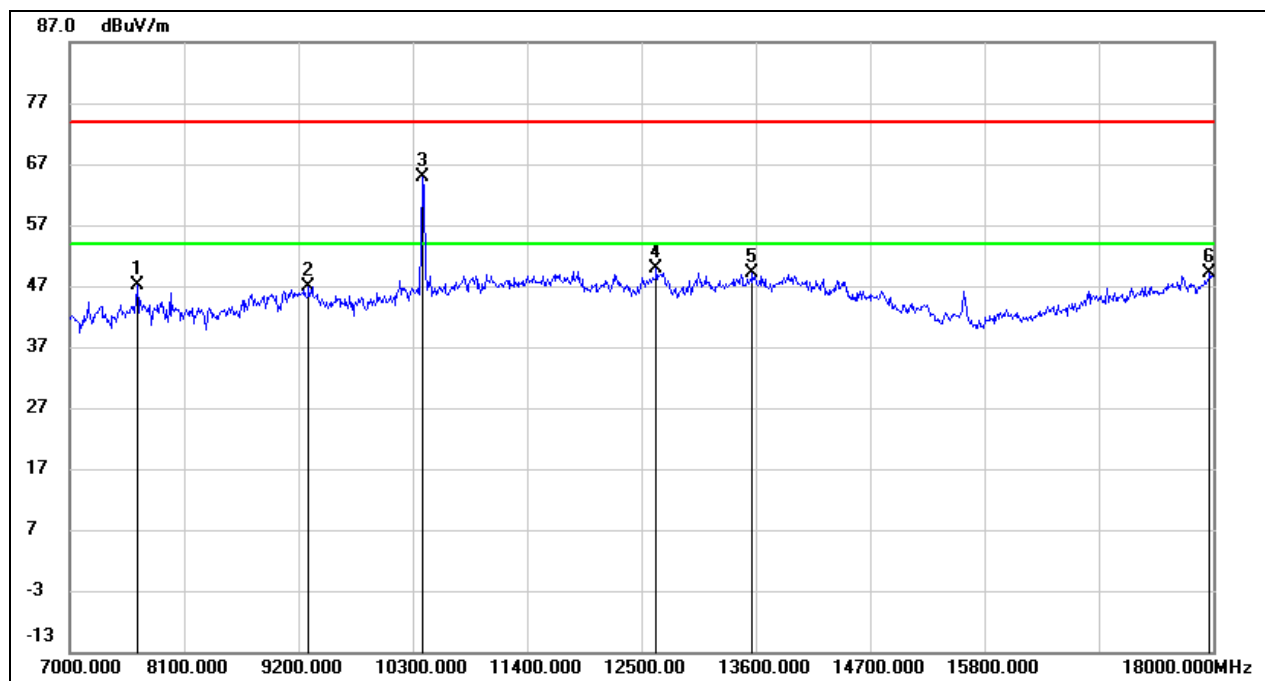
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.36	6.74	47.10	74.00	-26.90	peak
2	9299.000	36.40	10.53	46.93	74.00	-27.07	peak
3*	10388.000	52.37	12.59	64.96	68.20	-3.24	peak
4	12643.000	31.82	18.01	49.83	74.00	-24.17	peak
5	13567.000	28.42	20.80	49.22	74.00	-24.78	peak
6	17967.000	23.16	25.89	49.05	74.00	-24.95	peak

Test Mode:	802.11ac VHT20	Frequency(MHz):	5240
Polarity:	Horizontal	Test Voltage:	DC 12 V
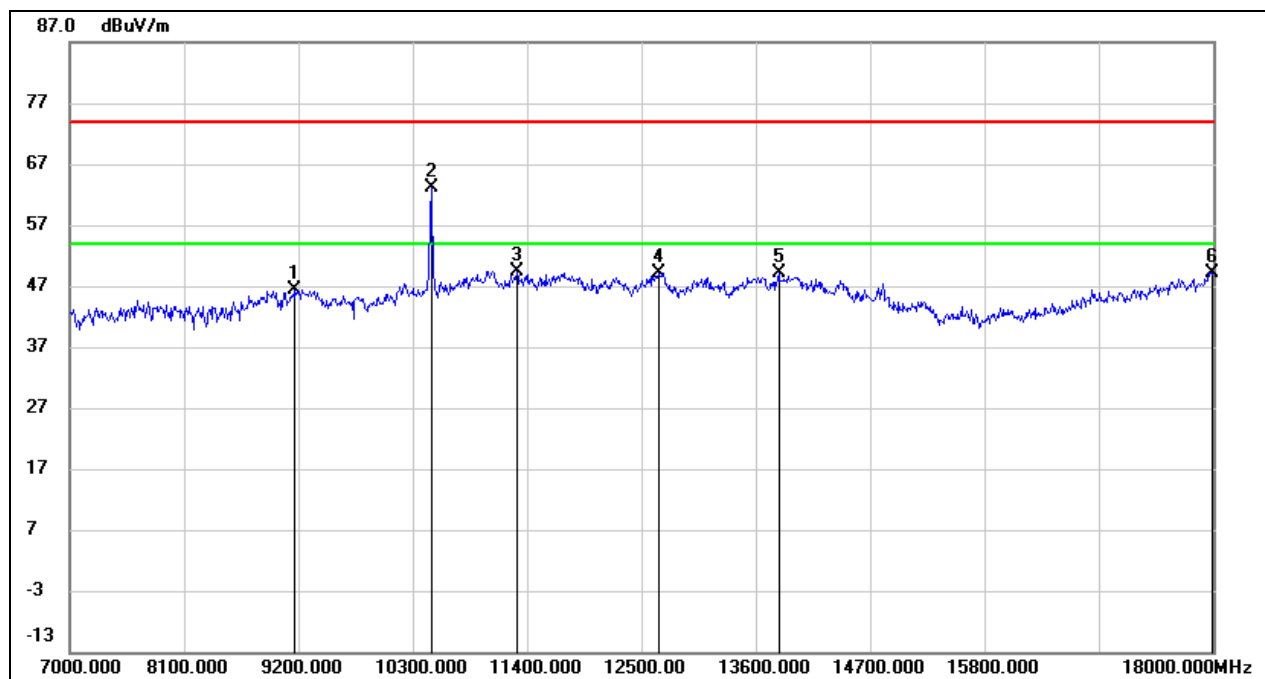
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9167.000	35.94	10.45	46.39	74.00	-27.61	peak
2*	10476.000	50.42	12.77	63.19	68.20	-5.01	peak
3	11301.000	33.52	15.95	49.47	74.00	-24.53	peak
4	12665.000	31.10	18.04	49.14	74.00	-24.86	peak
5	13820.000	27.73	21.43	49.16	74.00	-24.84	peak
6	17989.000	23.07	26.04	49.11	74.00	-24.89	peak

Test Mode:	802.11ac VHT20	Frequency(MHz):	5240
Polarity:	Vertical	Test Voltage:	DC 12 V
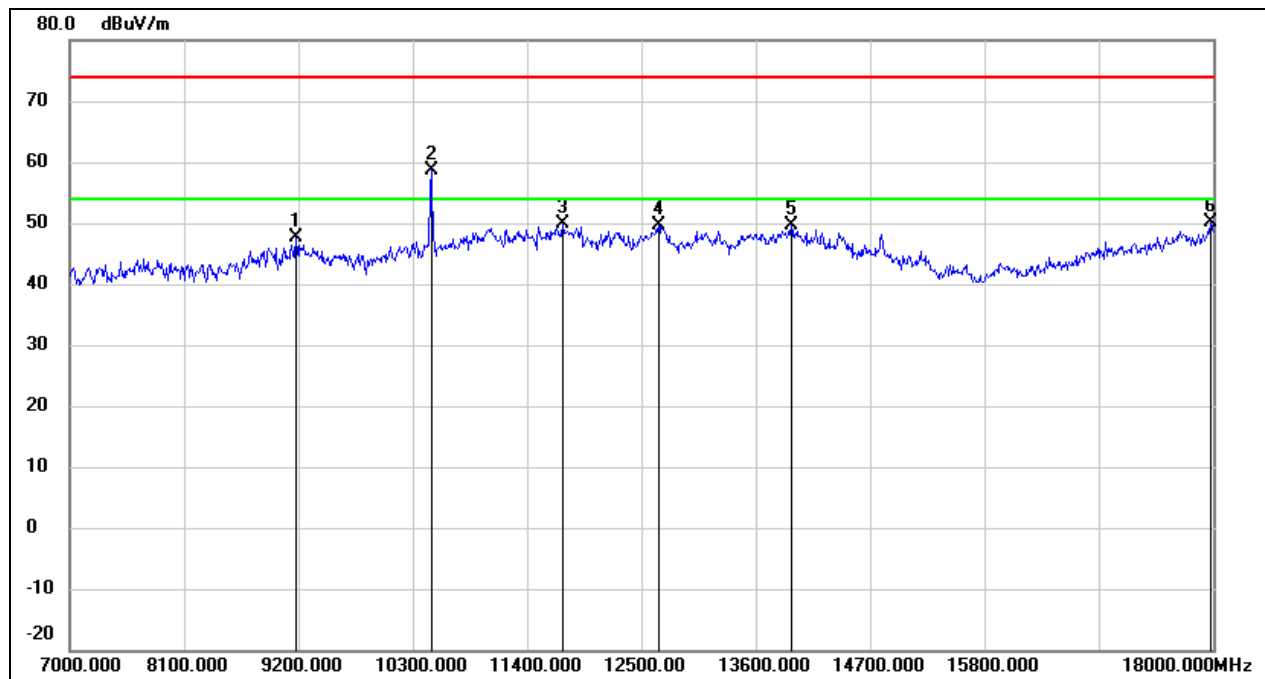
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9178.000	37.07	10.45	47.52	74.00	-26.48	peak
2*	10476.000	45.96	12.77	58.73	68.20	-9.47	peak
3	11741.000	32.61	17.22	49.83	74.00	-24.17	peak
4	12665.000	31.58	18.04	49.62	74.00	-24.38	peak
5	13941.000	27.85	21.73	49.58	74.00	-24.42	peak
6	17978.000	24.10	25.97	50.07	74.00	-23.93	peak

Test Mode:	802.11ac VHT20	Frequency(MHz):	5745
Polarity:	Horizontal	Test Voltage:	DC 12 V
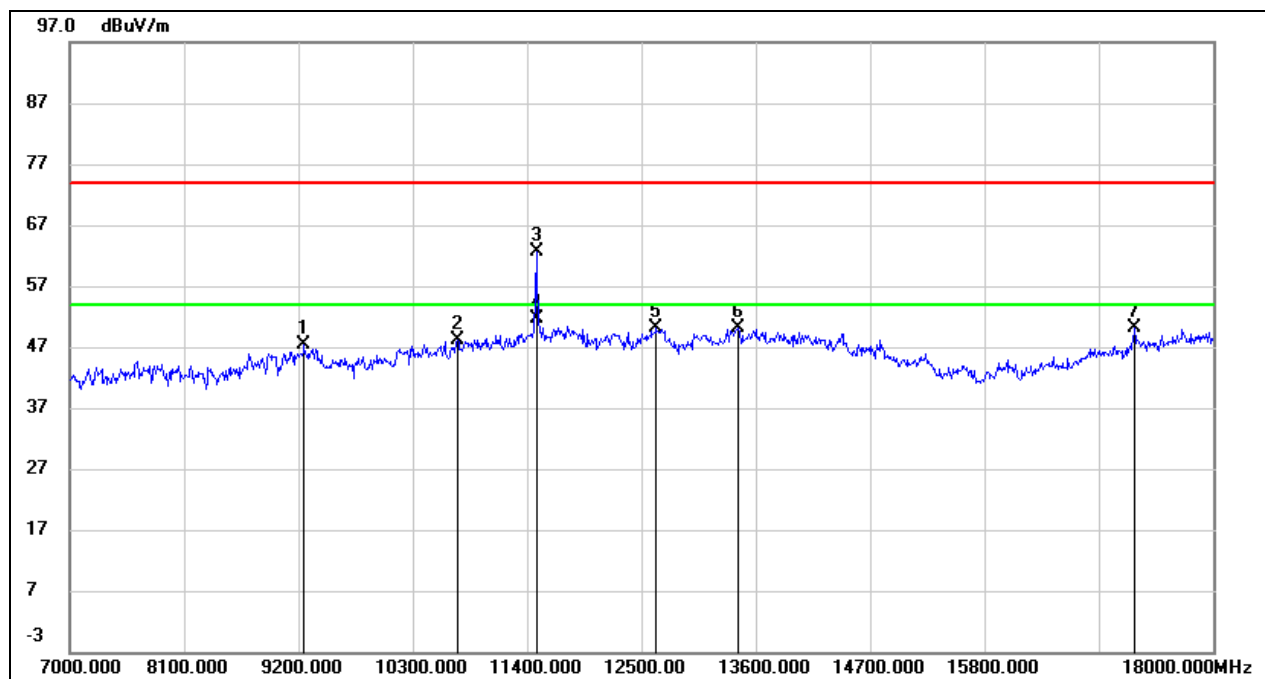
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9255.000	36.93	10.51	47.44	74.00	-26.56	peak
2	10729.000	34.53	13.69	48.22	74.00	-25.78	peak
3	11488.000	46.02	16.72	62.74	74.00	-11.26	peak
4	11488.000	34.86	16.72	51.58	54.00	-2.42	AVG
5	12643.000	32.24	18.01	50.25	74.00	-23.75	peak
6	13435.000	29.87	20.35	50.22	74.00	-23.78	peak
7	17241.000	28.49	21.62	50.11	74.00	-23.89	peak

Test Mode:	802.11ac VHT20	Frequency(MHz):	5745
Polarity:	Vertical	Test Voltage:	DC 12 V
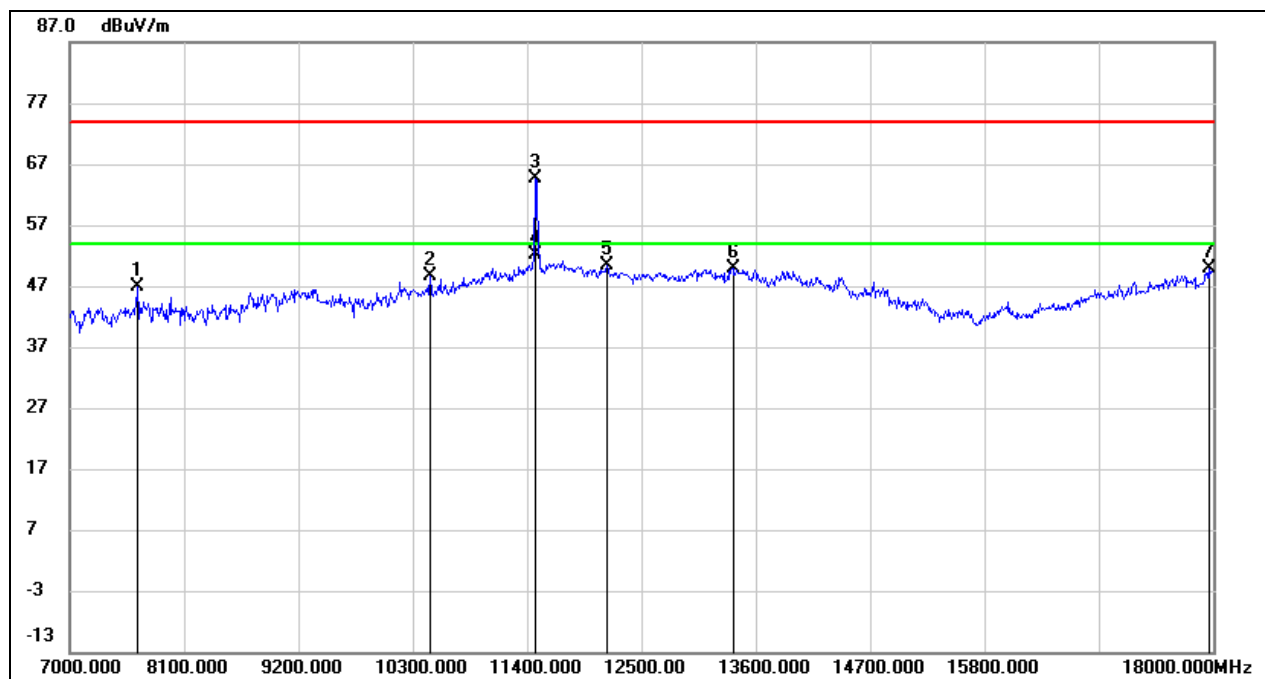
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	40.13	6.74	46.87	74.00	-27.13	peak
2	10465.000	35.87	12.75	48.62	74.00	-25.38	peak
3	11477.000	48.01	16.67	64.68	74.00	-9.32	peak
4	11477.000	35.50	16.67	52.17	54.00	-1.83	AVG
5	12170.000	32.70	17.75	50.45	74.00	-23.55	peak
6	13380.000	29.76	20.12	49.88	74.00	-24.12	peak
7	17956.000	24.05	25.82	49.87	74.00	-24.13	peak

Test Mode:	802.11ac VHT20	Frequency(MHz):	5785
Polarity:	Horizontal	Test Voltage:	DC 12 V
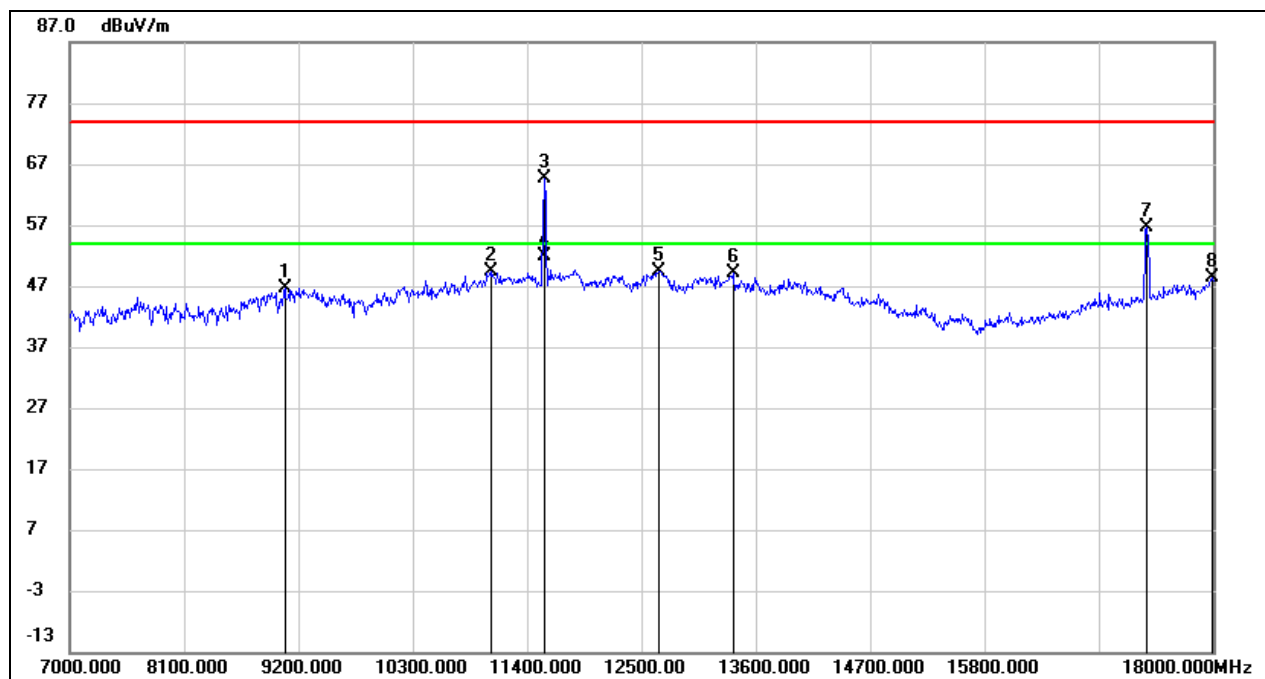
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9068.000	36.30	10.39	46.69	74.00	-27.31	peak
2	11048.000	34.53	14.91	49.44	74.00	-24.56	peak
3	11565.000	47.73	16.89	64.62	74.00	-9.38	peak
4	11565.000	34.91	16.89	51.80	54.00	-2.20	AVG
5	12665.000	31.38	18.04	49.42	74.00	-24.58	peak
6	13380.000	29.02	20.12	49.14	74.00	-24.86	peak
7	17362.000	34.50	22.12	56.62	74.00	-17.38	peak
8	17989.000	22.24	26.04	48.28	74.00	-25.72	peak

Test Mode:	802.11ac VHT20	Frequency(MHz):	5785
Polarity:	Vertical	Test Voltage:	DC 12 V
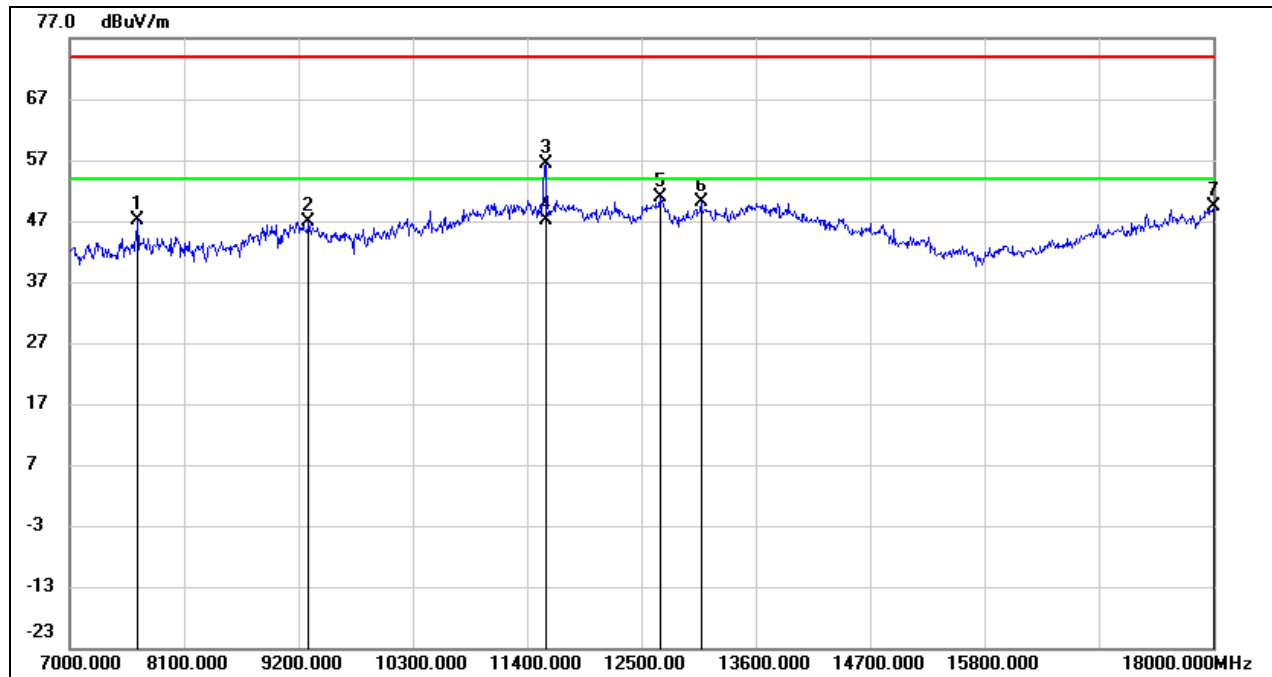
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	40.40	6.74	47.14	74.00	-26.86	peak
2	9299.000	36.33	10.53	46.86	74.00	-27.14	peak
3	11576.000	39.39	16.91	56.30	74.00	-17.70	peak
4	11576.000	30.32	16.91	47.23	54.00	-6.77	AVG
5	12676.000	32.81	18.05	50.86	74.00	-23.14	peak
6	13072.000	31.41	18.77	50.18	74.00	-23.82	peak
7	18000.000	23.32	26.12	49.44	74.00	-24.56	peak

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Test Mode:	802.11ac VHT20	Frequency(MHz):	5825
Polarity:	Horizontal	Test Voltage:	DC 12 V
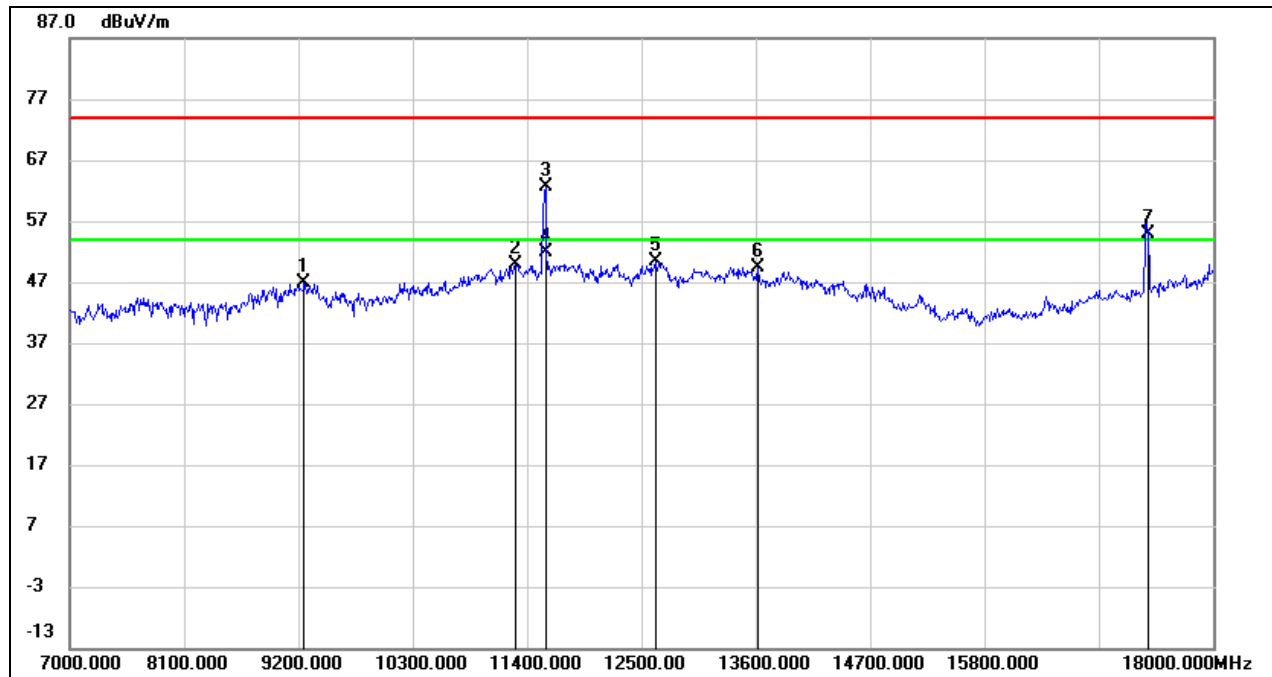
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9255.000	36.27	10.50	46.77	74.00	-27.23	peak
2	11290.000	33.86	15.90	49.76	74.00	-24.24	peak
3	11576.000	45.82	16.91	62.73	74.00	-11.27	peak
4	11576.000	34.93	16.91	51.84	54.00	-2.16	AVG
5	12632.000	32.27	17.99	50.26	74.00	-23.74	peak
6	13622.000	28.46	20.95	49.41	74.00	-24.59	peak
7	17373.000	32.68	22.16	54.84	74.00	-19.16	peak

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Test Mode:	802.11ac VHT20	Frequency(MHz):	5825
Polarity:	Vertical	Test Voltage:	DC 12 V
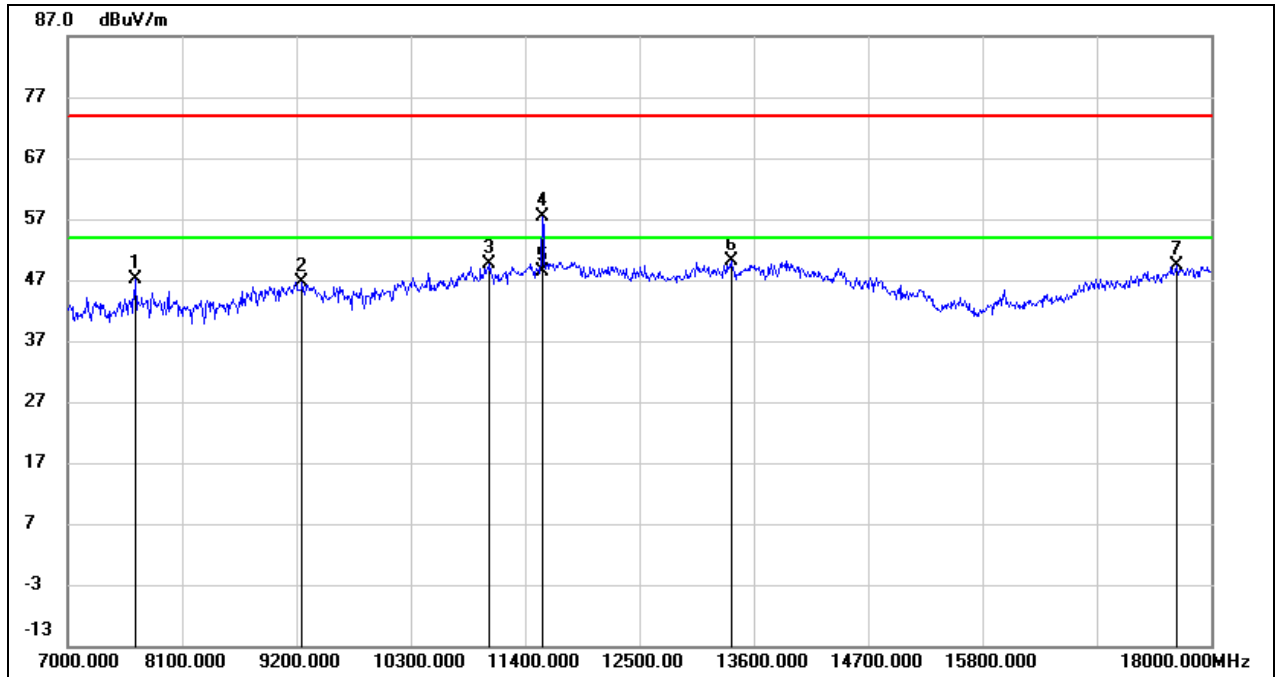
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.39	6.74	47.13	74.00	-26.87	peak
2	9255.000	36.22	10.51	46.73	74.00	-27.27	peak
3	11059.000	34.70	14.96	49.66	74.00	-24.34	peak
4	11565.000	40.45	16.89	57.34	74.00	-16.66	peak
5	11565.000	31.47	16.89	48.36	54.00	-5.64	AVG
6	13380.000	30.10	20.12	50.22	74.00	-23.78	peak
7	17670.000	25.58	23.86	49.44	74.00	-24.56	peak

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Test Mode:	802.11ac VHT40	Frequency(MHz):	5190
Polarity:	Horizontal	Test Voltage:	DC 12 V
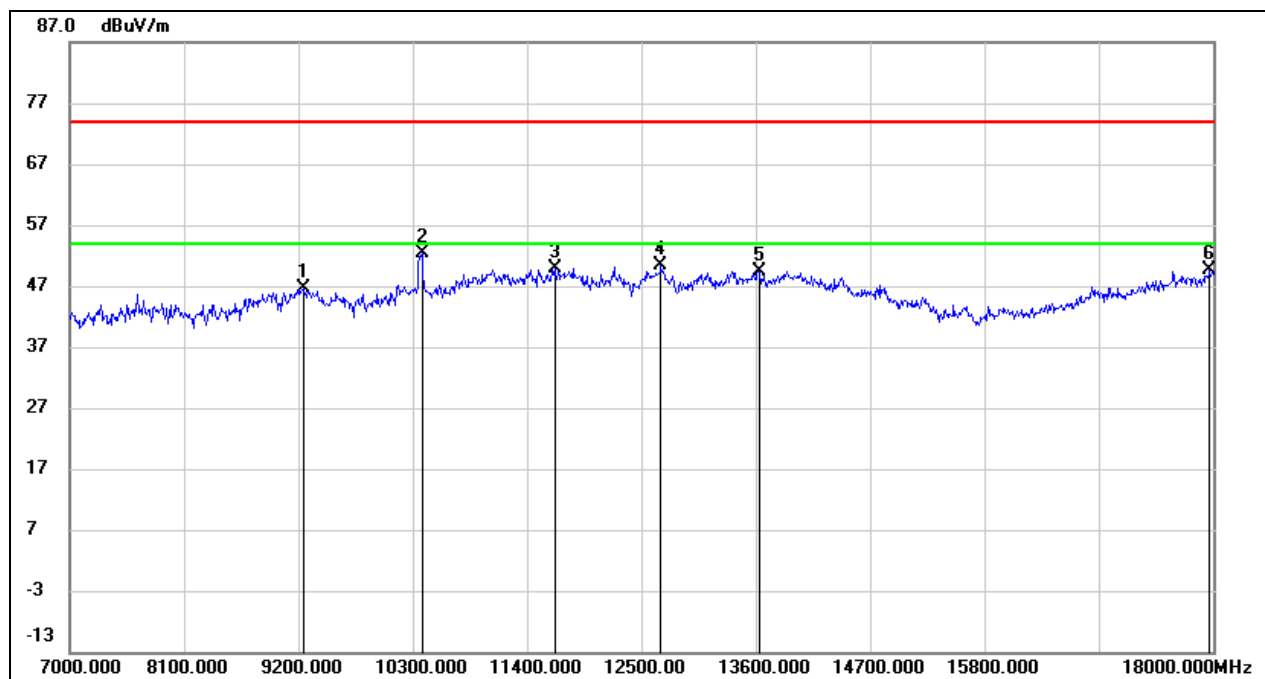
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9244.000	36.14	10.49	46.63	74.00	-27.37	peak
2	10388.000	39.69	12.59	52.28	74.00	-21.72	peak
3	11664.000	32.88	17.08	49.96	74.00	-24.04	peak
4	12687.000	32.25	18.05	50.30	74.00	-23.70	peak
5	13633.000	28.47	20.97	49.44	74.00	-24.56	peak
6	17967.000	23.62	25.89	49.51	74.00	-24.49	peak

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Test Mode:	802.11ac VHT40	Frequency(MHz):	5190
Polarity:	Vertical	Test Voltage:	DC 12 V
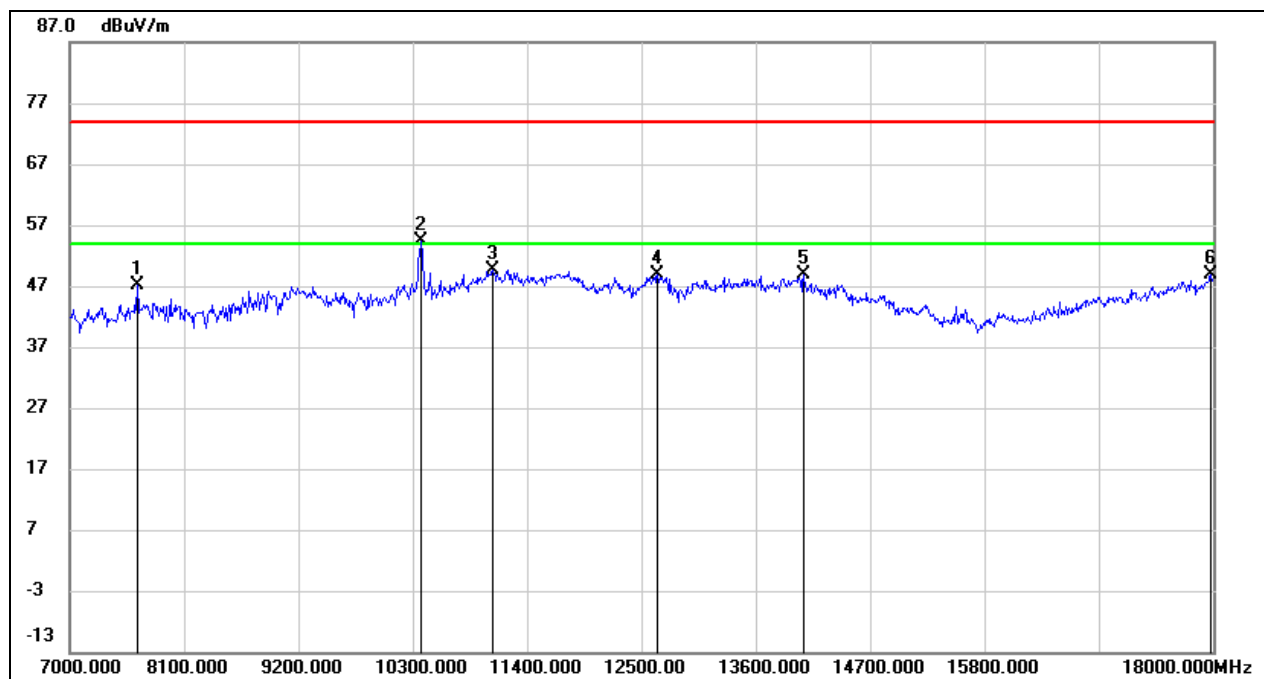
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.28	6.74	47.02	74.00	-26.98	peak
2*	10377.000	41.86	12.56	54.42	68.20	-13.78	peak
3	11070.000	34.67	15.01	49.68	74.00	-24.32	peak
4	12654.000	30.76	18.01	48.77	74.00	-25.23	peak
5	14062.000	27.26	21.62	48.88	74.00	-25.12	peak
6	17978.000	22.86	25.97	48.83	74.00	-25.17	peak

Test Mode:	802.11ac VHT40	Frequency(MHz):	5230
Polarity:	Horizontal	Test Voltage:	DC 12 V
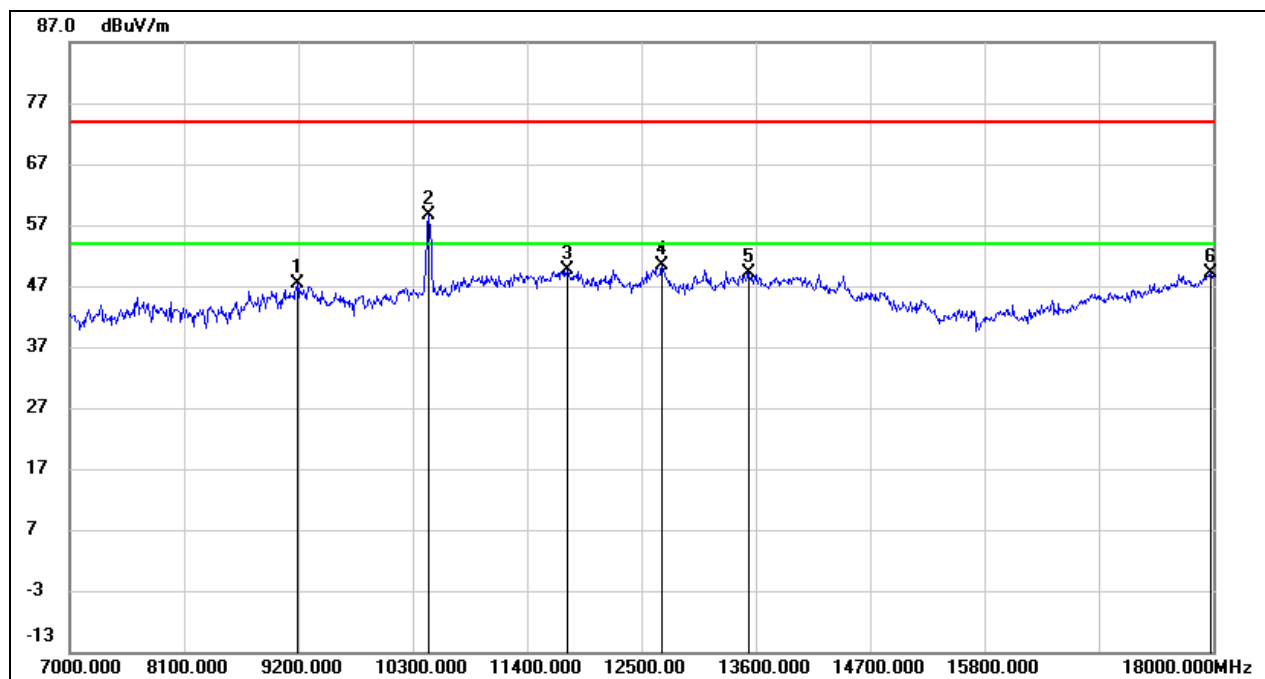
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9189.000	36.88	10.46	47.34	74.00	-26.66	peak
2*	10454.000	45.93	12.73	58.66	68.20	-9.54	peak
3	11785.000	32.30	17.30	49.60	74.00	-24.40	peak
4	12698.000	32.19	18.08	50.27	74.00	-23.73	peak
5	13534.000	28.45	20.73	49.18	74.00	-24.82	peak
6	17978.000	23.12	25.97	49.09	74.00	-24.91	peak

Test Mode:	802.11ac VHT40	Frequency(MHz):	5230
Polarity:	Vertical	Test Voltage:	DC 12 V
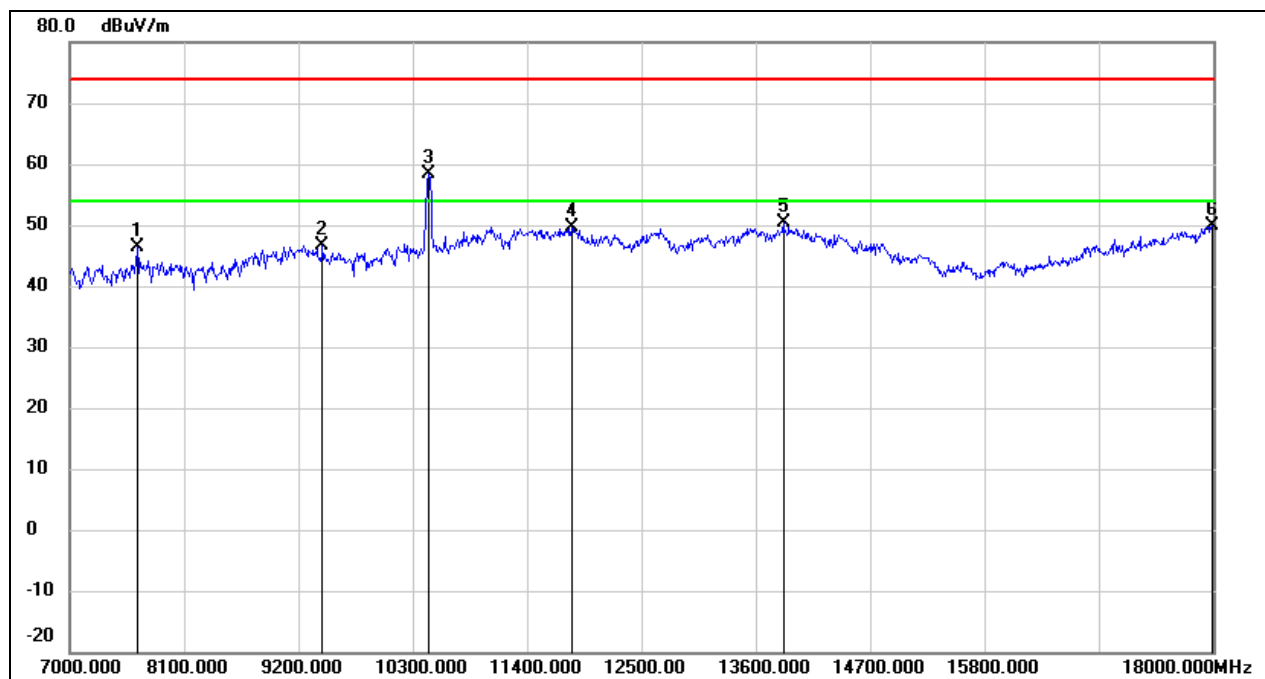
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	39.62	6.74	46.36	74.00	-27.64	peak
2	9431.000	36.02	10.61	46.63	74.00	-27.37	peak
3*	10454.000	45.74	12.73	58.47	68.20	-9.73	peak
4	11829.000	32.28	17.38	49.66	74.00	-24.34	peak
5	13864.000	28.82	21.53	50.35	74.00	-23.65	peak
6	17989.000	23.85	26.04	49.89	74.00	-24.11	peak

Test Mode:	802.11ac VHT40	Frequency(MHz):	5755
Polarity:	Horizontal	Test Voltage:	DC 12 V
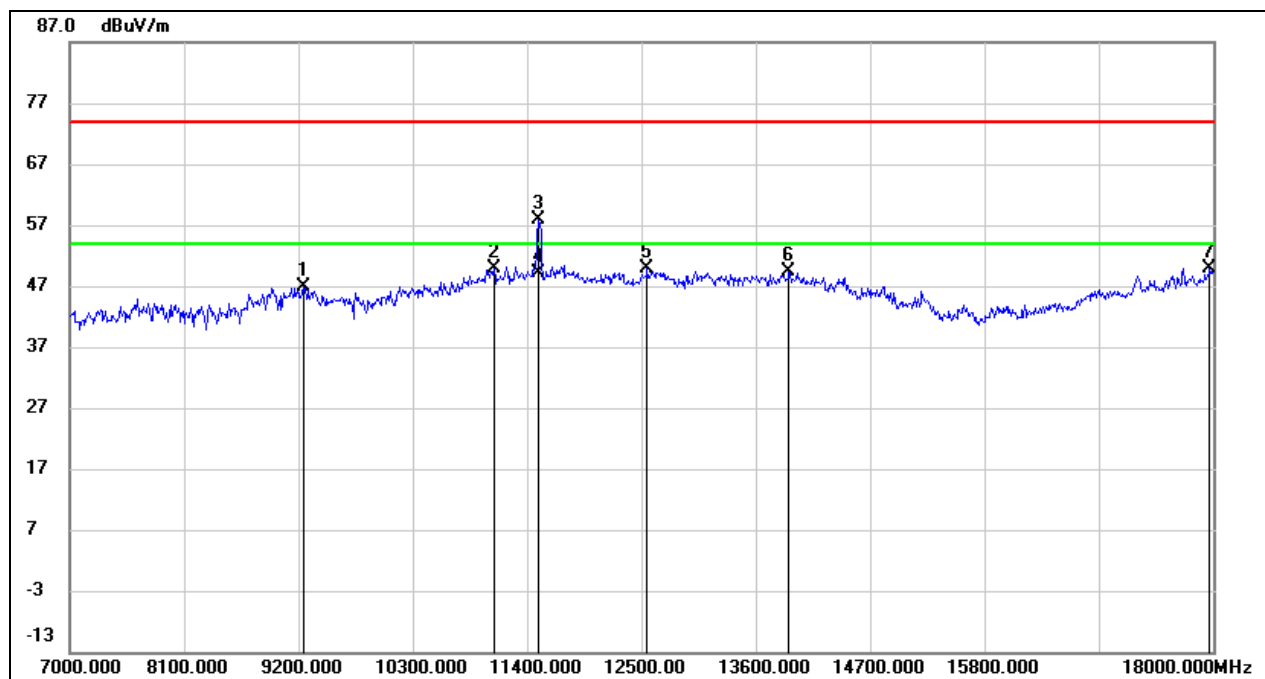
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9244.000	36.35	10.49	46.84	74.00	-27.16	peak
2	11081.000	34.89	15.05	49.94	74.00	-24.06	peak
3	11510.000	41.12	16.79	57.91	74.00	-16.09	peak
4	11510.000	32.41	16.79	49.20	54.00	-4.80	AVG
5	12555.000	31.94	17.90	49.84	74.00	-24.16	peak
6	13919.000	27.63	21.68	49.31	74.00	-24.69	peak
7	17967.000	24.09	25.89	49.98	74.00	-24.02	peak

Test Mode:	802.11ac VHT40	Frequency(MHz):	5755
Polarity:	Vertical	Test Voltage:	DC 12 V
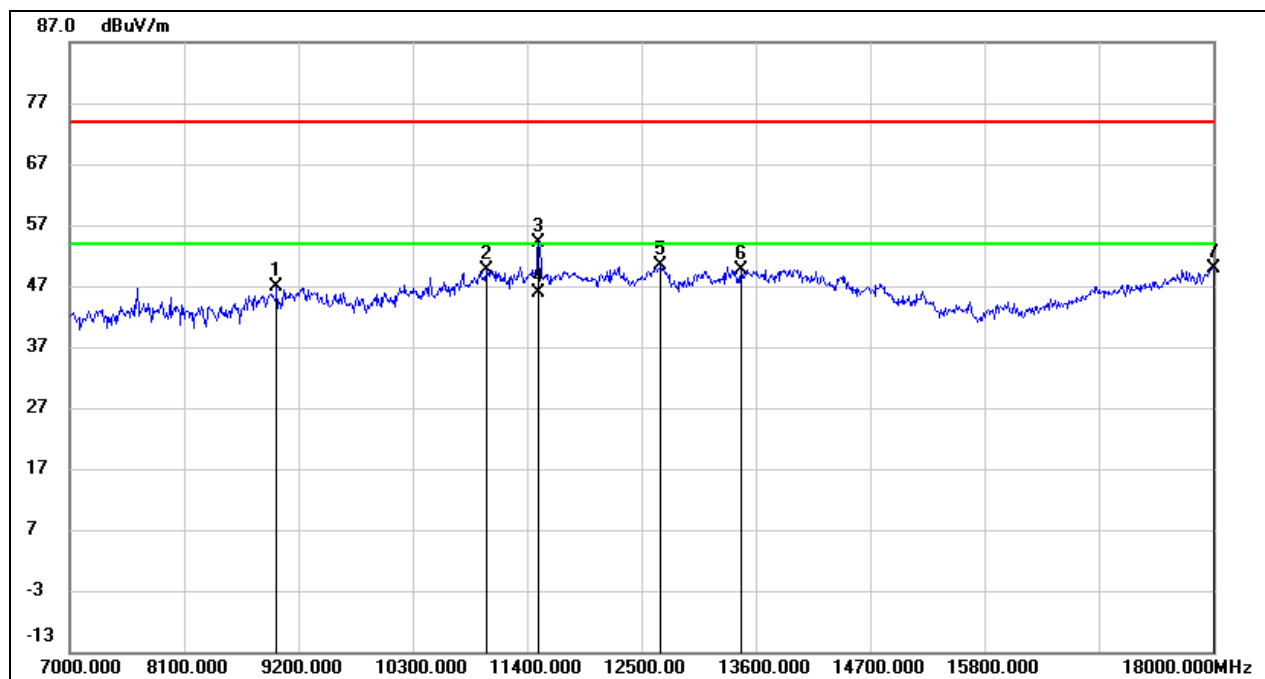
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8991.000	36.51	10.28	46.79	74.00	-27.21	peak
2	11015.000	34.72	14.79	49.51	74.00	-24.49	peak
3	11510.000	37.25	16.79	54.04	74.00	-19.96	peak
4	11510.000	29.11	16.79	45.90	54.00	-8.10	AVG
5	12687.000	32.27	18.05	50.32	74.00	-23.68	peak
6	13457.000	29.18	20.46	49.64	74.00	-24.36	peak
7	18000.000	23.84	26.12	49.96	74.00	-24.04	peak

Test Mode:	802.11ac VHT40	Frequency(MHz):	5795
Polarity:	Horizontal	Test Voltage:	DC 12 V
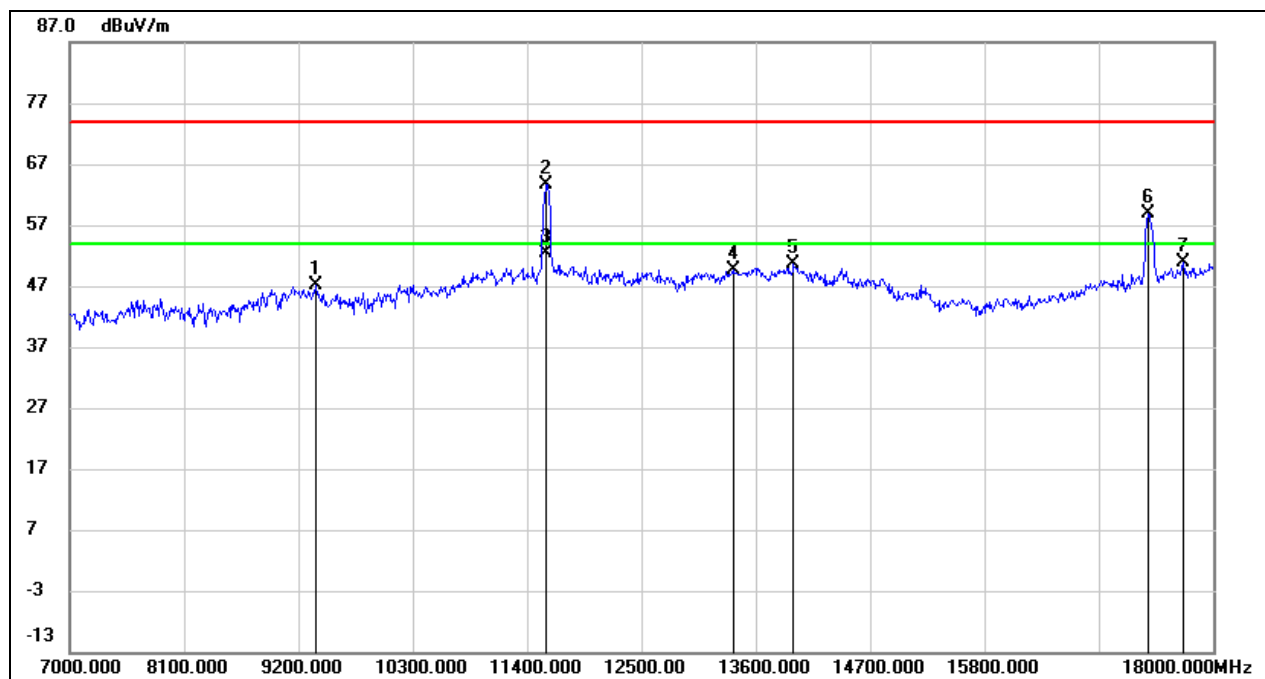
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9365.000	36.57	10.57	47.14	74.00	-26.86	peak
2	11587.000	46.69	16.93	63.62	74.00	-10.38	peak
3	11587.000	35.38	16.93	52.31	54.00	-1.69	AVG
4	13380.000	29.60	20.12	49.72	74.00	-24.28	peak
5	13963.000	28.87	21.78	50.65	74.00	-23.35	peak
6*	17373.000	36.77	22.16	58.93	68.20	-9.27	peak
7	17714.000	26.81	24.16	50.97	74.00	-23.03	peak

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Test Mode:	802.11ac VHT40	Frequency(MHz):	5795
Polarity:	Vertical	Test Voltage:	DC 12 V
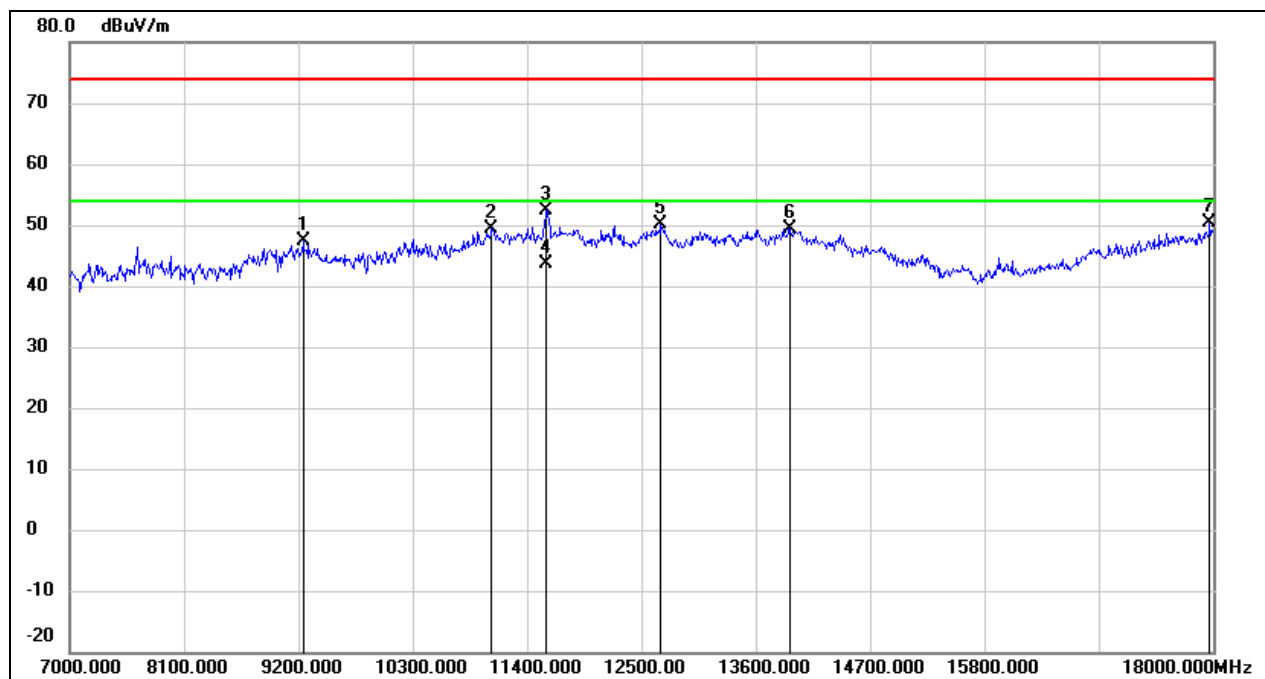
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9244.000	36.87	10.49	47.36	74.00	-26.64	peak
2	11059.000	34.50	14.96	49.46	74.00	-24.54	peak
3	11587.000	35.42	16.93	52.35	74.00	-21.65	peak
4	11587.000	26.66	16.93	43.59	54.00	-10.41	AVG
5	12687.000	32.04	18.05	50.09	74.00	-23.91	peak
6	13930.000	27.76	21.71	49.47	74.00	-24.53	peak
7	17967.000	24.51	25.89	50.40	74.00	-23.60	peak

Test Mode:	802.11ac VHT80	Frequency(MHz):	5210
Polarity:	Horizontal	Test Voltage:	DC 12 V
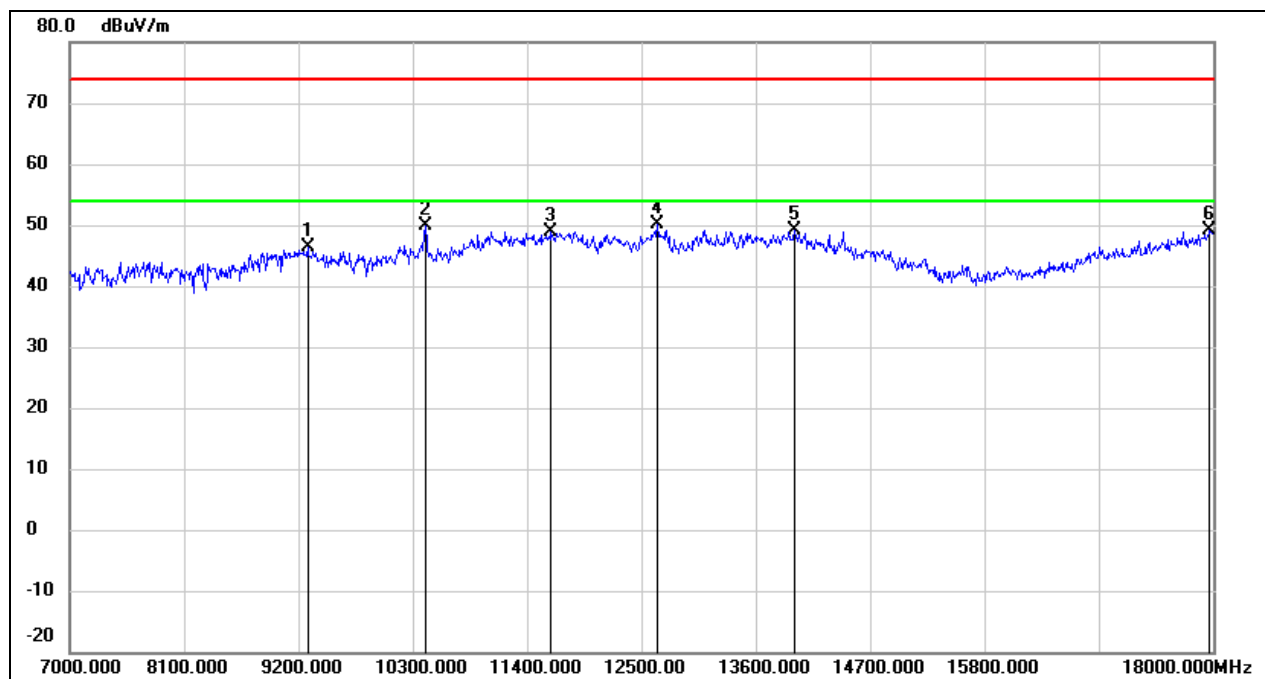
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9288.000	35.75	10.52	46.27	74.00	-27.73	peak
2	10421.000	37.20	12.66	49.86	74.00	-24.14	peak
3	11631.000	31.99	17.01	49.00	74.00	-25.00	peak
4	12654.000	32.18	18.01	50.19	74.00	-23.81	peak
5	13974.000	27.35	21.82	49.17	74.00	-24.83	peak
6	17967.000	23.23	25.89	49.12	74.00	-24.88	peak

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Test Mode:	802.11ac VHT80	Frequency(MHz):	5210
Polarity:	Vertical	Test Voltage:	DC 12 V
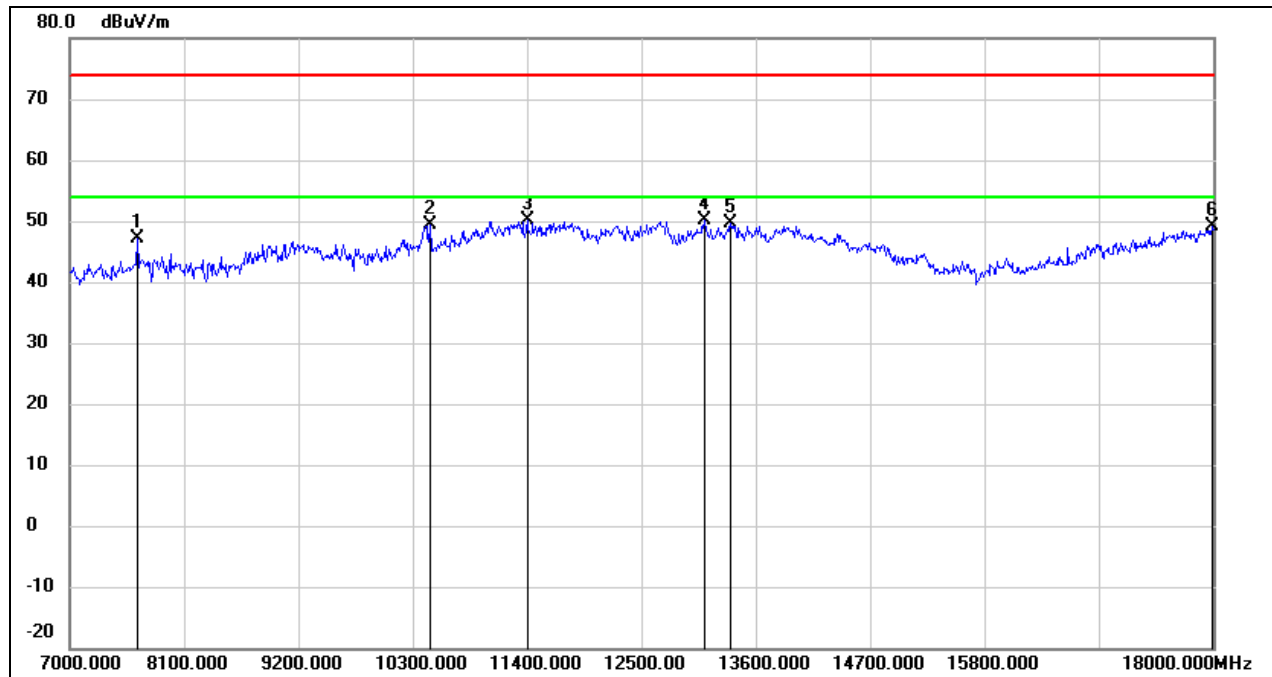
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	40.27	6.74	47.01	74.00	-26.99	peak
2	10465.000	36.66	12.75	49.41	74.00	-24.59	peak
3	11400.000	33.73	16.36	50.09	74.00	-23.91	peak
4	13105.000	31.20	18.91	50.11	74.00	-23.89	peak
5	13358.000	29.51	20.02	49.53	74.00	-24.47	peak
6	17989.000	23.03	26.04	49.07	74.00	-24.93	peak

Test Mode:	802.11ac VHT80	Frequency(MHz):	5775
Polarity:	Horizontal	Test Voltage:	DC 12 V
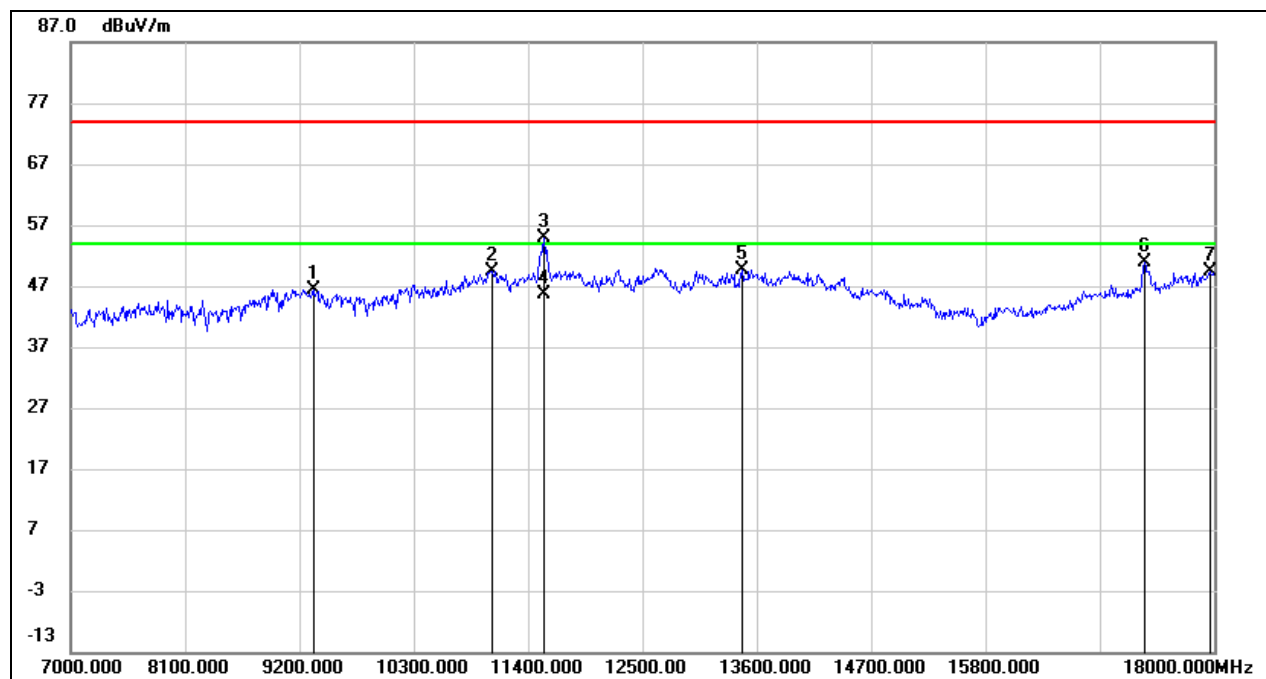
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9332.000	35.92	10.54	46.46	74.00	-27.54	peak
2	11059.000	34.53	14.96	49.49	74.00	-24.51	peak
3	11554.000	37.89	16.87	54.76	74.00	-19.24	peak
4	11554.000	28.73	16.87	45.60	54.00	-8.40	AVG
5	13457.000	29.25	20.46	49.71	74.00	-24.29	peak
6	17329.000	28.83	21.99	50.82	74.00	-23.18	peak
7	17967.000	23.53	25.89	49.42	74.00	-24.58	peak

Test Mode:	802.11ac VHT80	Frequency(MHz):	5775
Polarity:	Vertical	Test Voltage:	DC 12 V
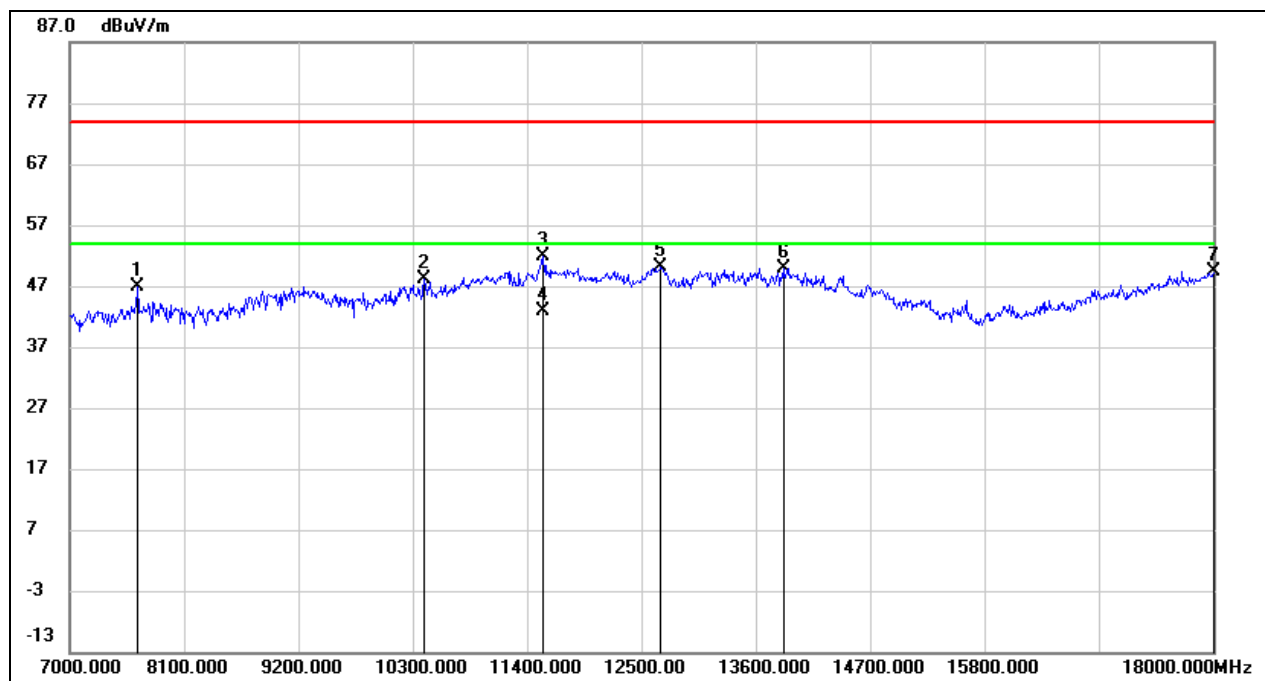
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.21	6.74	46.95	74.00	-27.05	peak
2	10410.000	35.44	12.62	48.06	74.00	-25.94	peak
3	11554.000	34.98	16.87	51.85	74.00	-22.15	peak
4	11554.000	25.93	16.87	42.80	54.00	-11.20	AVG
5	12687.000	32.12	18.05	50.17	74.00	-23.83	peak
6	13864.000	28.29	21.53	49.82	74.00	-24.18	peak
7	18000.000	23.23	26.12	49.35	74.00	-24.65	peak

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Test Mode:	802.11ac VHT160	Frequency(MHz):	5250
Polarity:	Horizontal	Test Voltage:	DC 12 V
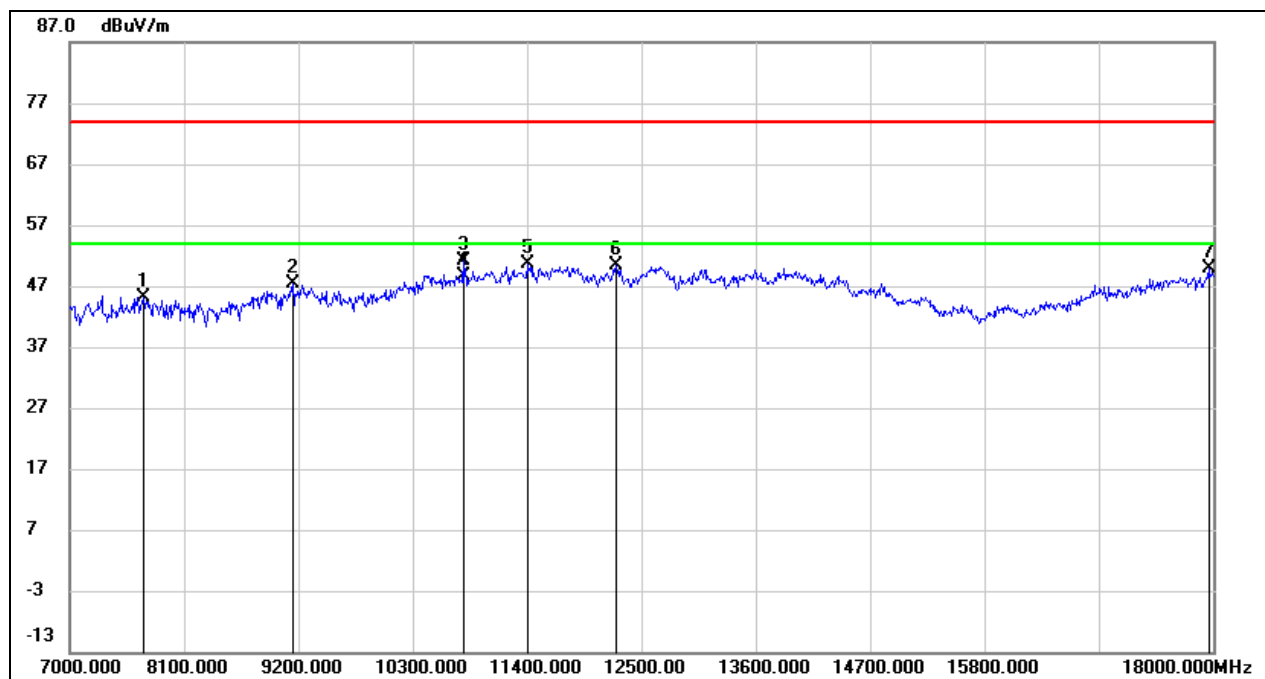
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7704.000	38.49	6.69	45.18	74.00	-28.82	peak
2	9145.000	36.99	10.43	47.42	74.00	-26.58	peak
3	10784.000	37.22	13.91	51.13	74.00	-22.87	peak
4	10784.000	34.65	13.91	48.56	54.00	-5.44	AVG
5	11400.000	34.17	16.36	50.53	74.00	-23.47	peak
6	12258.000	32.64	17.77	50.41	74.00	-23.59	peak
7	17956.000	24.03	25.82	49.85	74.00	-24.15	peak

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Test Mode:	802.11ac VHT160	Frequency(MHz):	5250
Polarity:	Vertical	Test Voltage:	DC 12 V
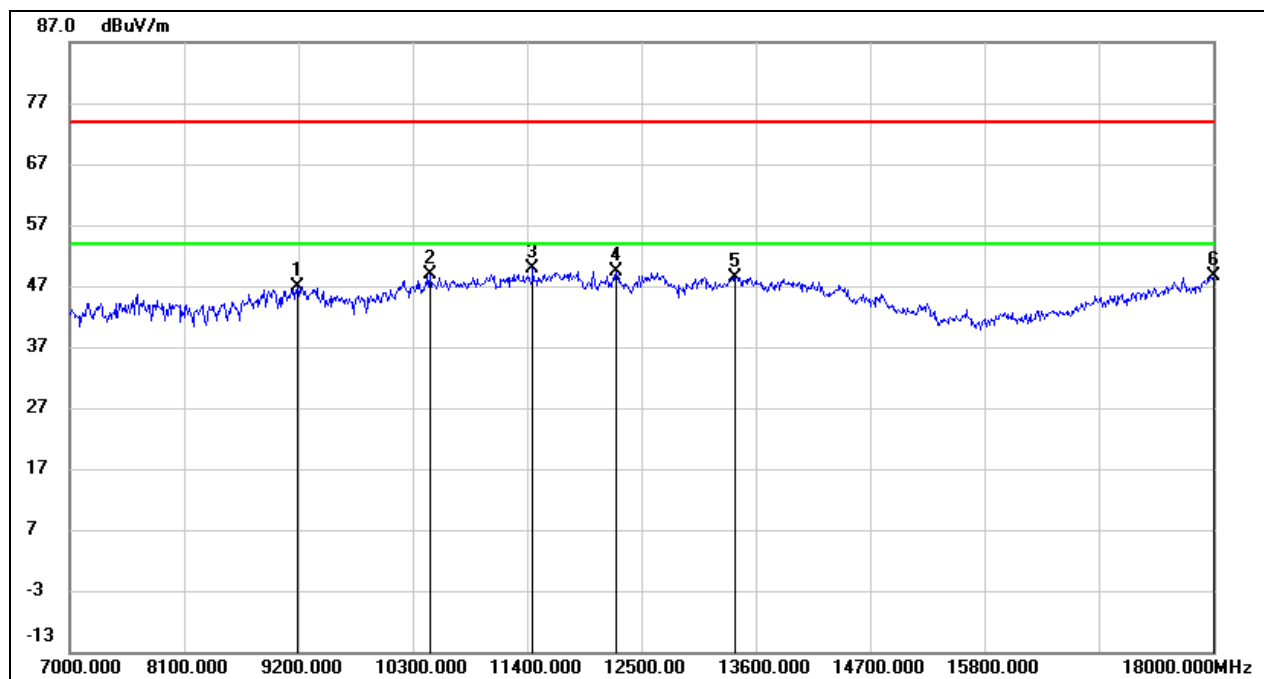
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9189.000	36.46	10.46	46.92	74.00	-27.08	peak
2	10465.000	36.08	12.75	48.83	74.00	-25.17	peak
3	11455.000	33.33	16.58	49.91	74.00	-24.09	peak
4	12258.000	31.67	17.77	49.44	74.00	-24.56	peak
5	13402.000	28.29	20.20	48.49	74.00	-25.51	peak
6	18000.000	22.51	26.12	48.63	74.00	-25.37	peak

Test Mode:	802.11ax HE20	Channel:	5180
Polarity:	Horizontal	Test Voltage:	DC 12 V
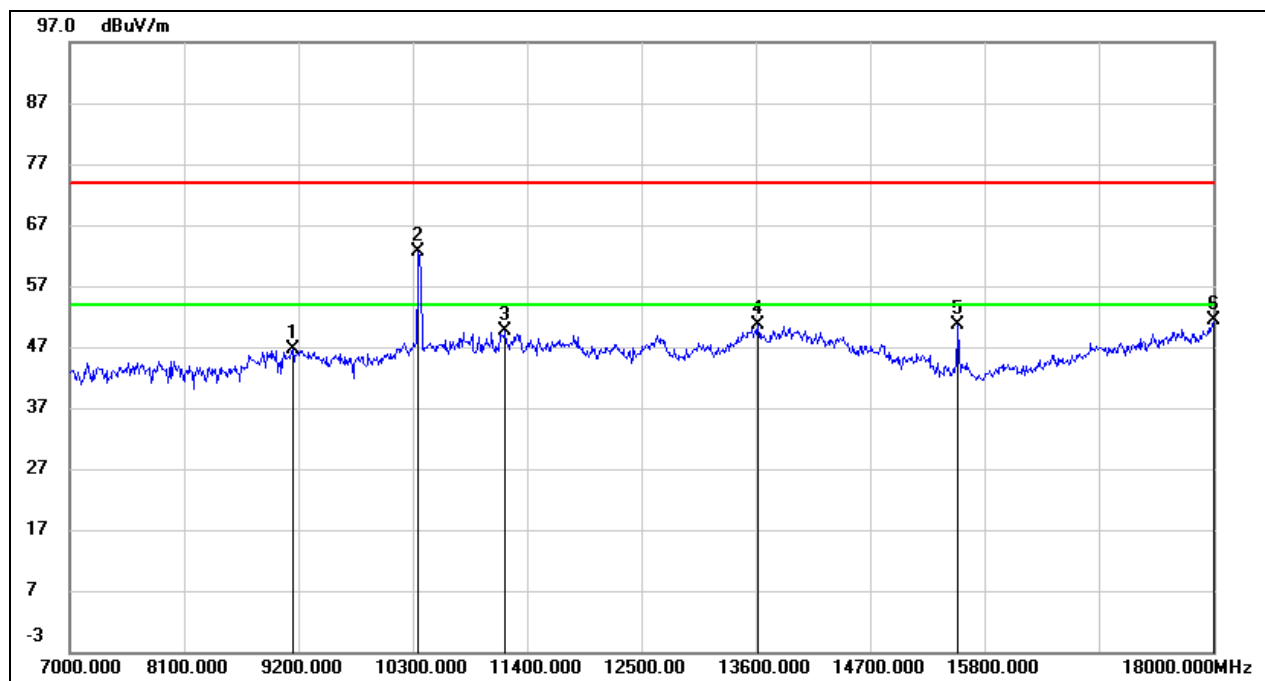
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9145.000	36.13	10.43	46.56	74.00	-27.44	peak
2*	10355.000	50.20	12.52	62.72	68.20	-5.48	peak
3	11191.000	34.18	15.50	49.68	74.00	-24.32	peak
4	13622.000	29.61	20.95	50.56	74.00	-23.44	peak
5	15547.000	33.79	16.73	50.52	74.00	-23.48	peak
6	18000.000	25.20	26.12	51.32	74.00	-22.68	peak

Test Mode:	802.11ax HE20	Channel:	5180
Polarity:	Vertical	Test Voltage:	DC 12 V
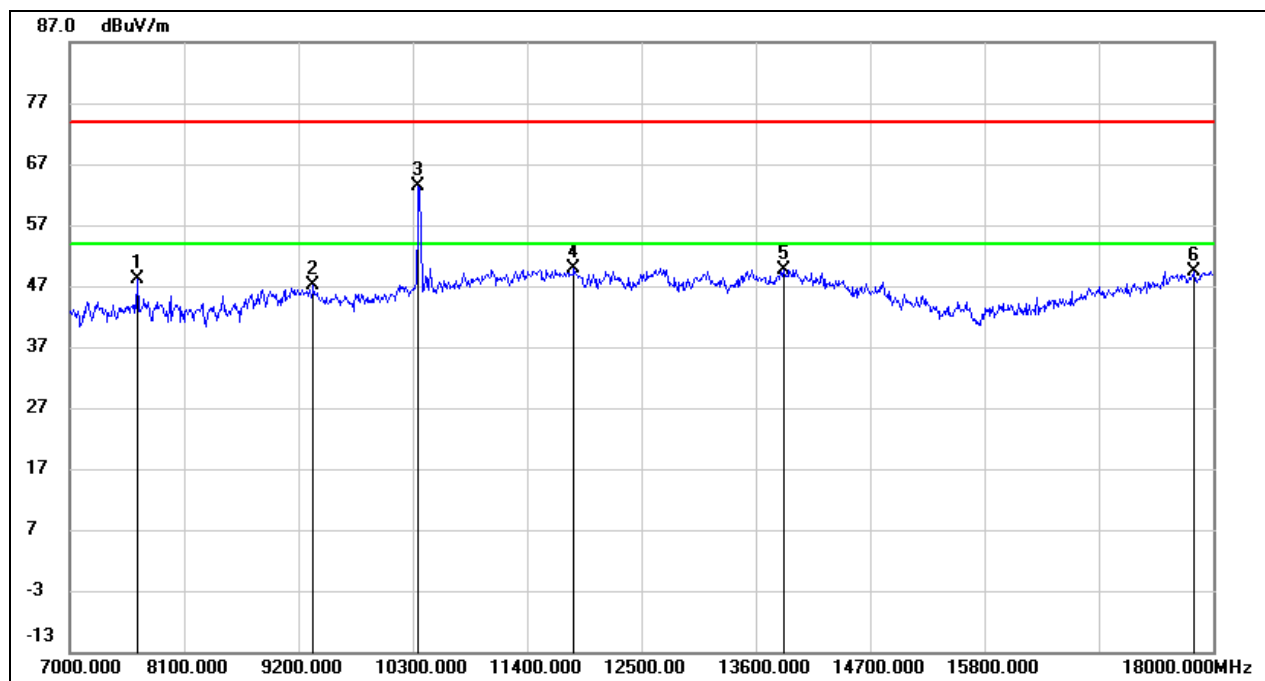
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	41.42	6.74	48.16	74.00	-25.84	peak
2	9343.000	36.53	10.55	47.08	74.00	-26.92	peak
3*	10355.000	50.83	12.52	63.35	68.20	-4.85	peak
4	11851.000	32.57	17.43	50.00	74.00	-24.00	peak
5	13864.000	28.15	21.53	49.68	74.00	-24.32	peak
6	17813.000	24.60	24.84	49.44	74.00	-24.56	peak

Test Mode:	802.11ax HE20	Channel:	5200
Polarity:	Horizontal	Test Voltage:	DC 12 V
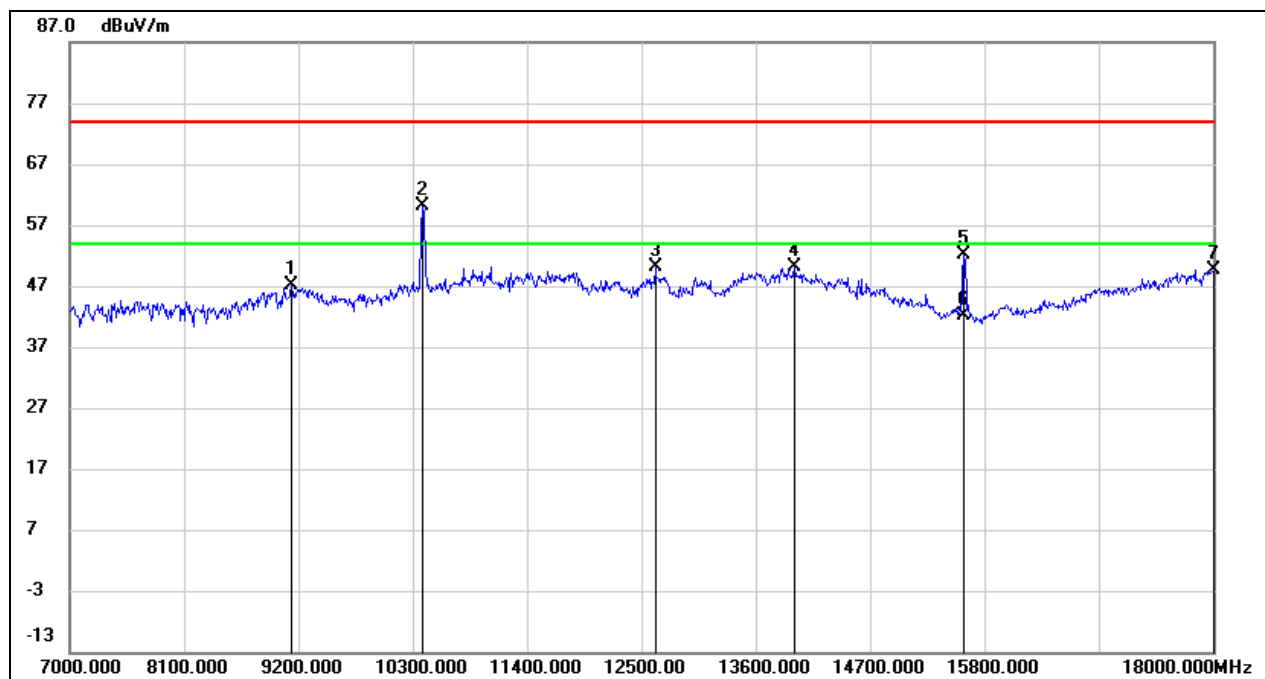
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9134.000	36.73	10.41	47.14	74.00	-26.86	peak
2*	10388.000	47.65	12.59	60.24	68.20	-7.96	peak
3	12632.000	32.02	17.99	50.01	74.00	-23.99	peak
4	13974.000	28.23	21.82	50.05	74.00	-23.95	peak
5	15602.000	35.34	16.75	52.09	74.00	-21.91	peak
6	15602.000	25.38	16.75	42.13	54.00	-11.87	AVG
7	18000.000	23.63	26.12	49.75	74.00	-24.25	peak

Test Mode:	802.11ax HE20	Channel:	5200
Polarity:	Vertical	Test Voltage:	DC 12 V
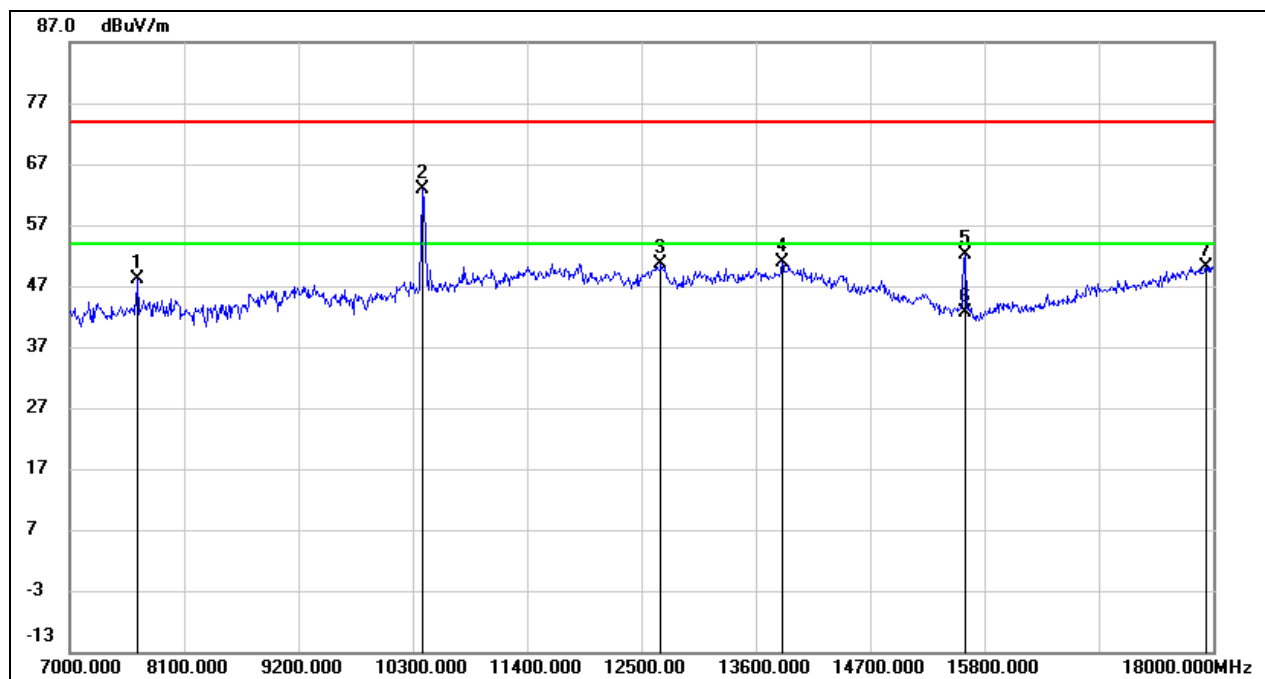
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	41.47	6.74	48.21	74.00	-25.79	peak
2*	10399.000	50.21	12.61	62.82	68.20	-5.38	peak
3	12687.000	32.69	18.05	50.74	74.00	-23.26	peak
4	13853.000	29.24	21.52	50.76	74.00	-23.24	peak
5	15613.000	35.27	16.76	52.03	74.00	-21.97	peak
6	15613.000	25.84	16.76	42.60	54.00	-11.40	AVG
7	17934.000	24.56	25.67	50.23	74.00	-23.77	peak

Test Mode:	802.11ax HE20	Channel:	5240
Polarity:	Horizontal	Test Voltage:	DC 12 V
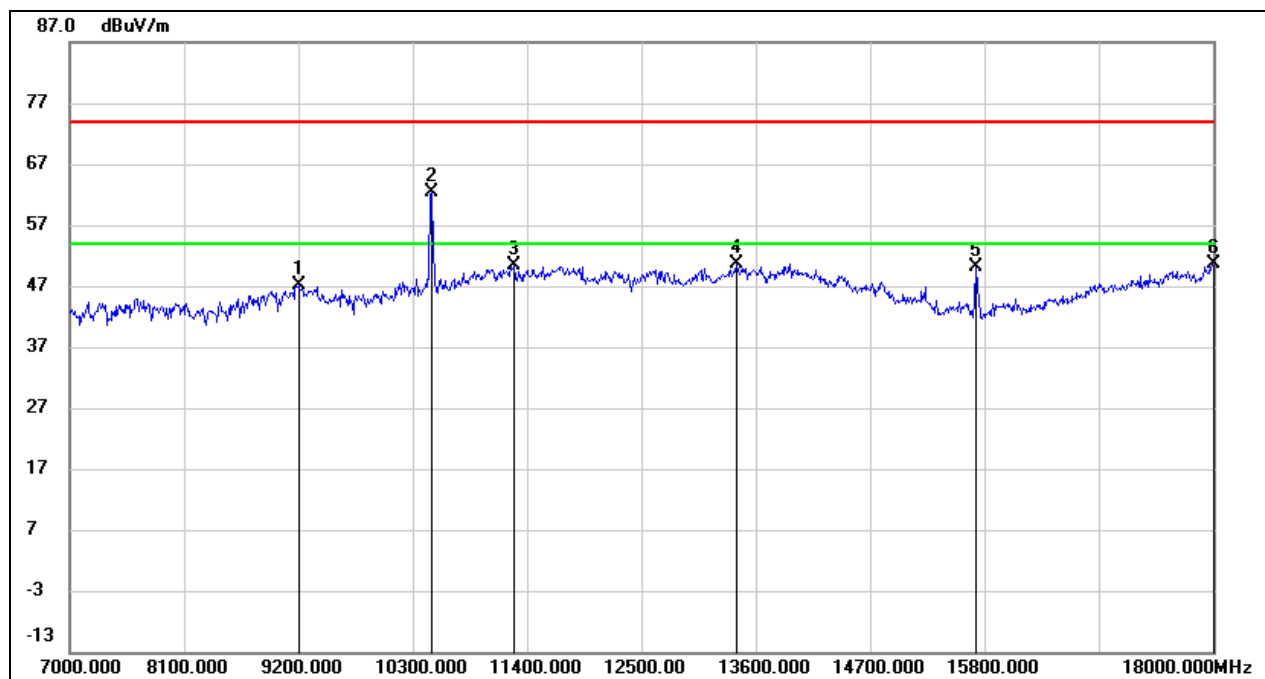
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9200.000	36.56	10.46	47.02	74.00	-26.98	peak
2*	10476.000	49.68	12.77	62.45	68.20	-5.75	peak
3	11279.000	34.47	15.86	50.33	74.00	-23.67	peak
4	13413.000	30.43	20.26	50.69	74.00	-23.31	peak
5	15712.000	33.31	16.80	50.11	74.00	-23.89	peak
6	18000.000	24.62	26.12	50.74	74.00	-23.26	peak

Test Mode:	802.11ax HE20	Channel:	5240
Polarity:	Vertical	Test Voltage:	DC 12 V
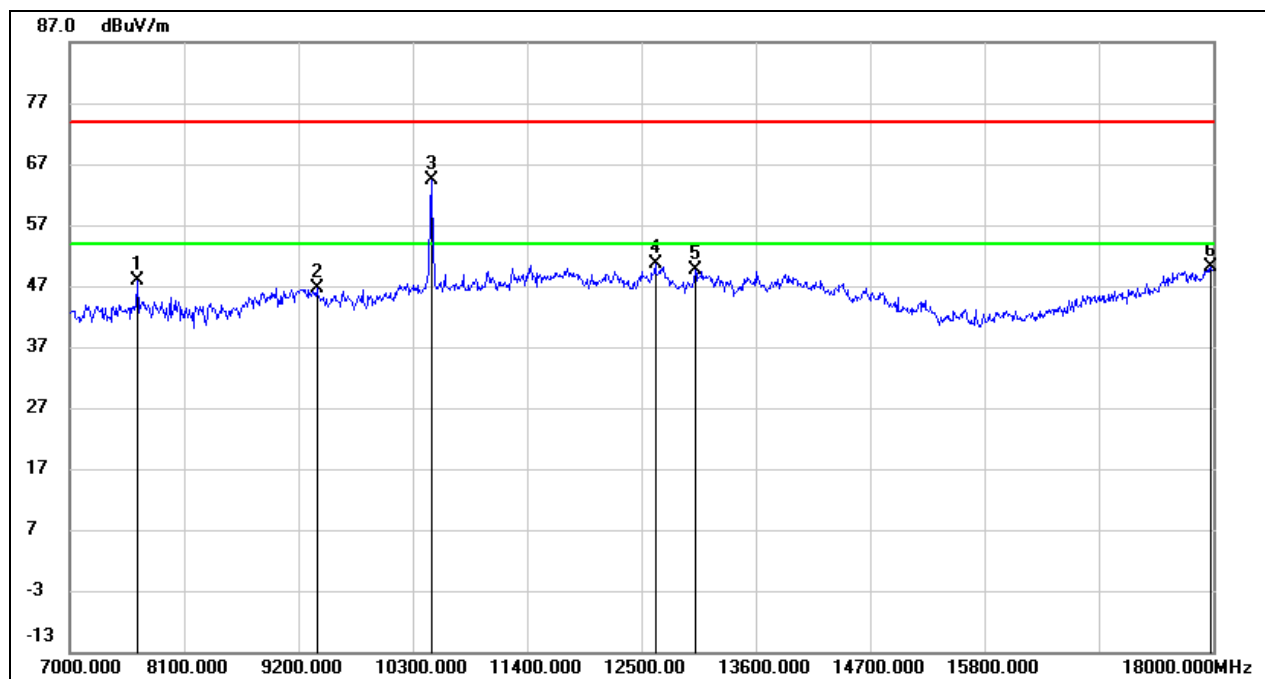
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	41.24	6.74	47.98	74.00	-26.02	peak
2	9376.000	35.95	10.58	46.53	74.00	-27.47	peak
3*	10476.000	51.54	12.77	64.31	68.20	-3.89	peak
4	12632.000	32.58	17.99	50.57	74.00	-23.43	peak
5	13017.000	31.12	18.53	49.65	74.00	-24.35	peak
6	17978.000	24.06	25.97	50.03	74.00	-23.97	peak

Test Mode:	802.11ax HE20	Channel:	5745
Polarity:	Horizontal	Test Voltage:	DC 12 V
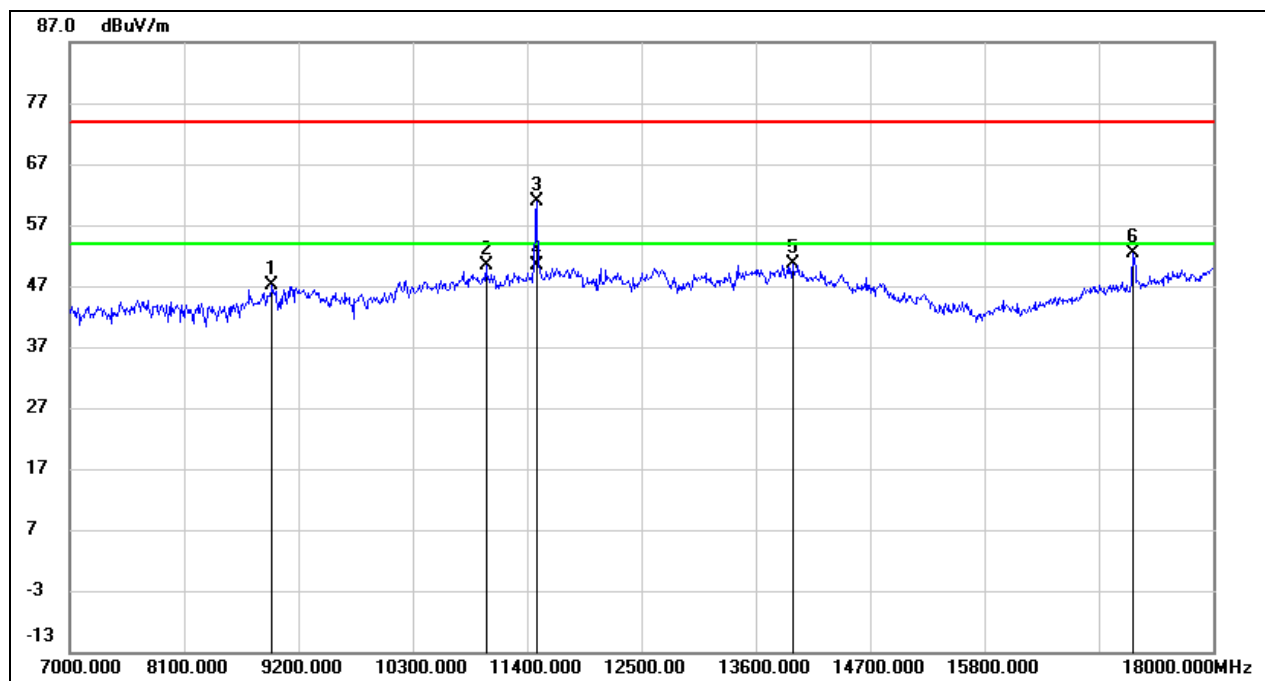
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8947.000	37.06	9.98	47.04	74.00	-26.96	peak
2	11004.000	35.67	14.74	50.41	74.00	-23.59	peak
3	11488.000	44.06	16.72	60.78	74.00	-13.22	peak
4	11488.000	33.76	16.72	50.48	54.00	-3.52	AVG
5	13952.000	28.83	21.76	50.59	74.00	-23.41	peak
6	17230.000	30.86	21.57	52.43	74.00	-21.57	peak

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Test Mode:	802.11ax HE20	Channel:	5745
Polarity:	Vertical	Test Voltage:	DC 12 V
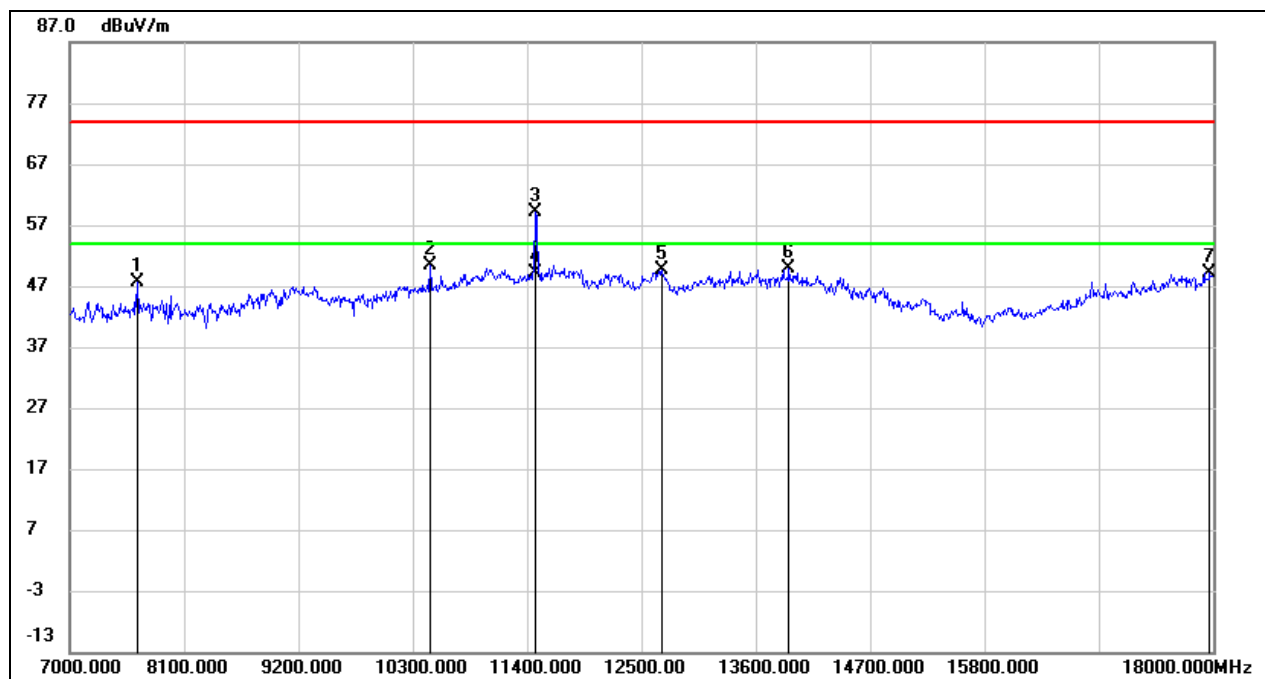
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	40.85	6.74	47.59	74.00	-26.41	peak
2	10465.000	37.61	12.75	50.36	74.00	-23.64	peak
3	11477.000	42.48	16.67	59.15	74.00	-14.85	peak
4	11477.000	32.41	16.67	49.08	54.00	-4.92	AVG
5	12698.000	31.62	18.08	49.70	74.00	-24.30	peak
6	13919.000	28.31	21.68	49.99	74.00	-24.01	peak
7	17967.000	23.13	25.89	49.02	74.00	-24.98	peak

Test Mode:	802.11ax HE20	Channel:	5785
Polarity:	Horizontal	Test Voltage:	DC 12 V
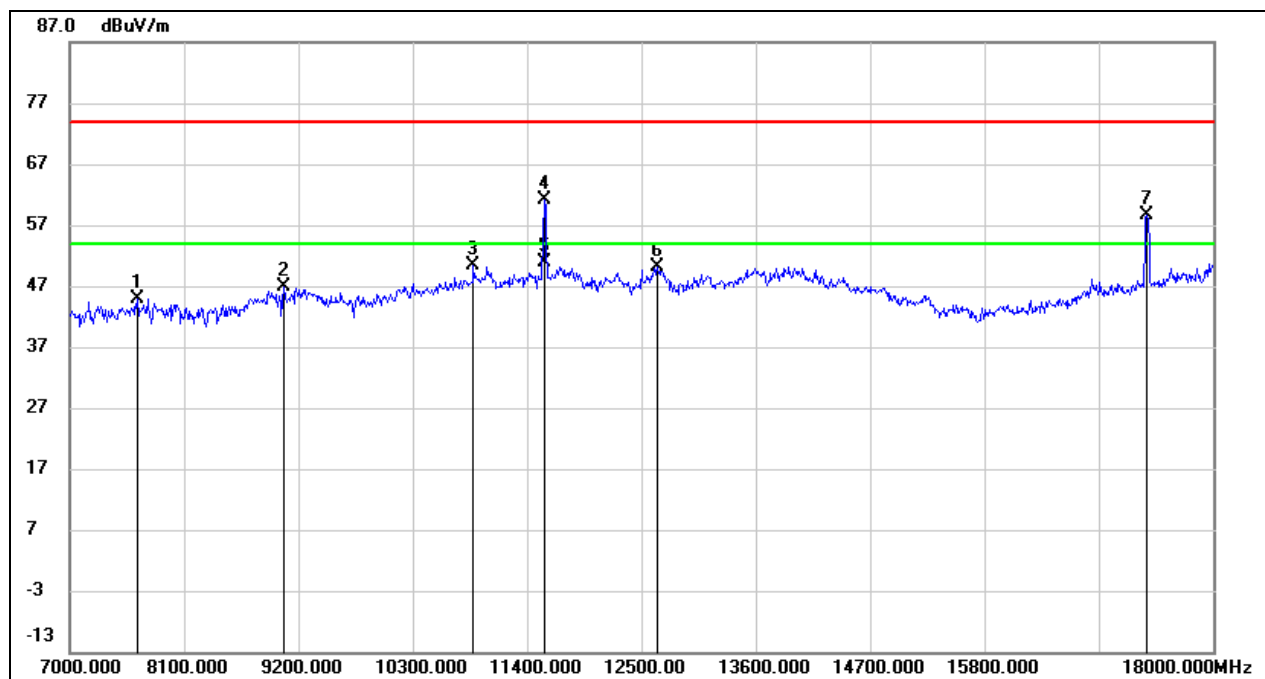
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	38.12	6.74	44.86	74.00	-29.14	peak
2	9057.000	36.61	10.38	46.99	74.00	-27.01	peak
3	10883.000	36.03	14.27	50.30	74.00	-23.70	peak
4	11565.000	44.33	16.89	61.22	74.00	-12.78	peak
5	11565.000	33.97	16.89	50.86	54.00	-3.14	AVG
6	12654.000	32.24	18.01	50.25	74.00	-23.75	peak
7*	17362.000	36.60	22.12	58.72	68.20	-9.48	peak

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Test Mode:	802.11ax HE20	Channel:	5785
Polarity:	Vertical	Test Voltage:	DC 12 V
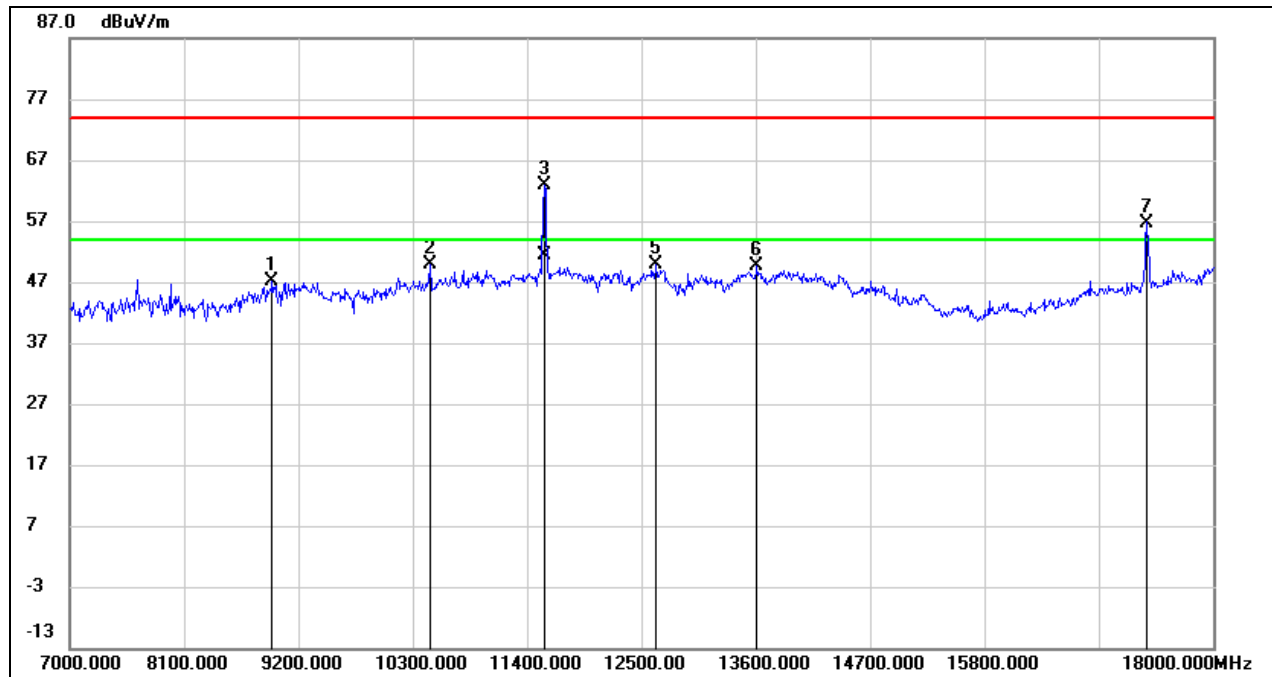
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8947.000	37.08	9.98	47.06	74.00	-26.94	peak
2	10465.000	37.19	12.75	49.94	74.00	-24.06	peak
3	11565.000	46.06	16.89	62.95	74.00	-11.05	peak
4	11565.000	34.49	16.89	51.38	54.00	-2.62	AVG
5	12643.000	31.83	18.01	49.84	74.00	-24.16	peak
6	13611.000	28.76	20.92	49.68	74.00	-24.32	peak
7*	17362.000	34.63	22.12	56.75	68.20	-11.45	peak

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Test Mode:	802.11ax HE20	Channel:	5825
Polarity:	Horizontal	Test Voltage:	DC 12 V
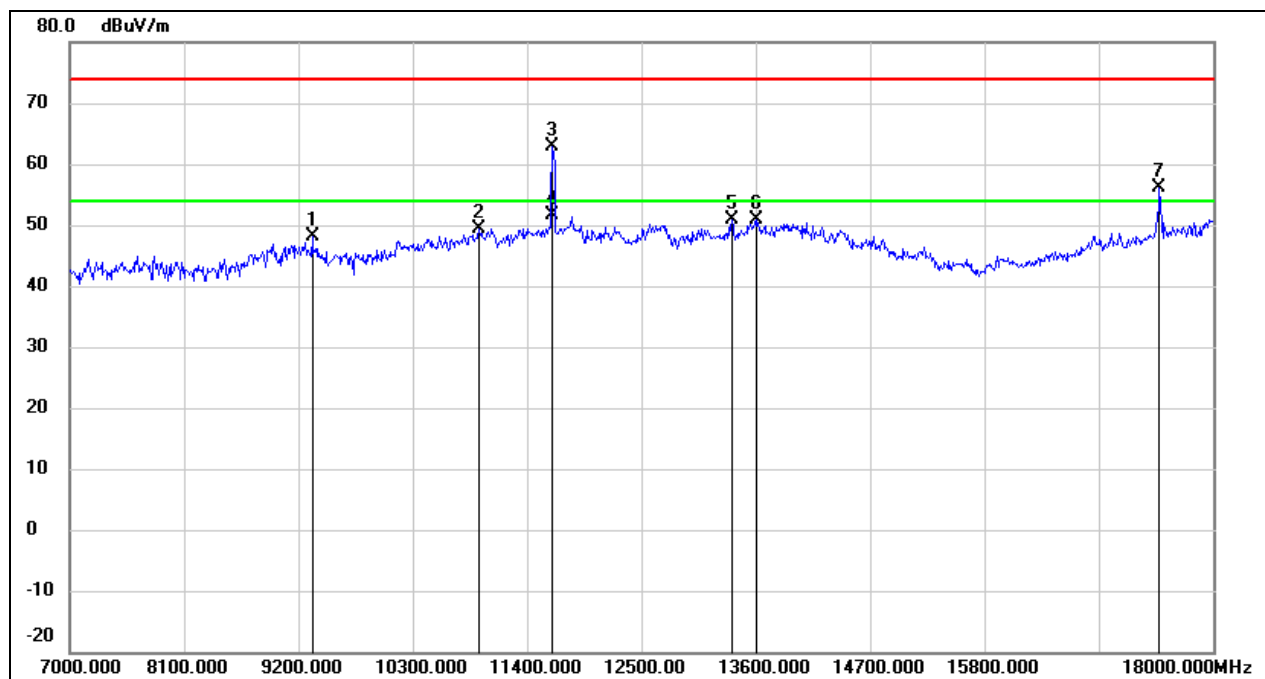
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9332.000	37.55	10.54	48.09	74.00	-25.91	peak
2	10938.000	34.96	14.48	49.44	74.00	-24.56	peak
3	11642.000	45.78	17.03	62.81	74.00	-11.19	peak
4	11642.000	34.59	17.03	51.62	54.00	-2.38	AVG
5	13369.000	30.74	20.06	50.80	74.00	-23.20	peak
6	13600.000	30.01	20.89	50.90	74.00	-23.10	peak
7*	17483.000	33.39	22.62	56.01	68.20	-12.19	peak

Test Mode:	802.11ax HE20	Channel:	5825
Polarity:	Vertical	Test Voltage:	DC 12 V
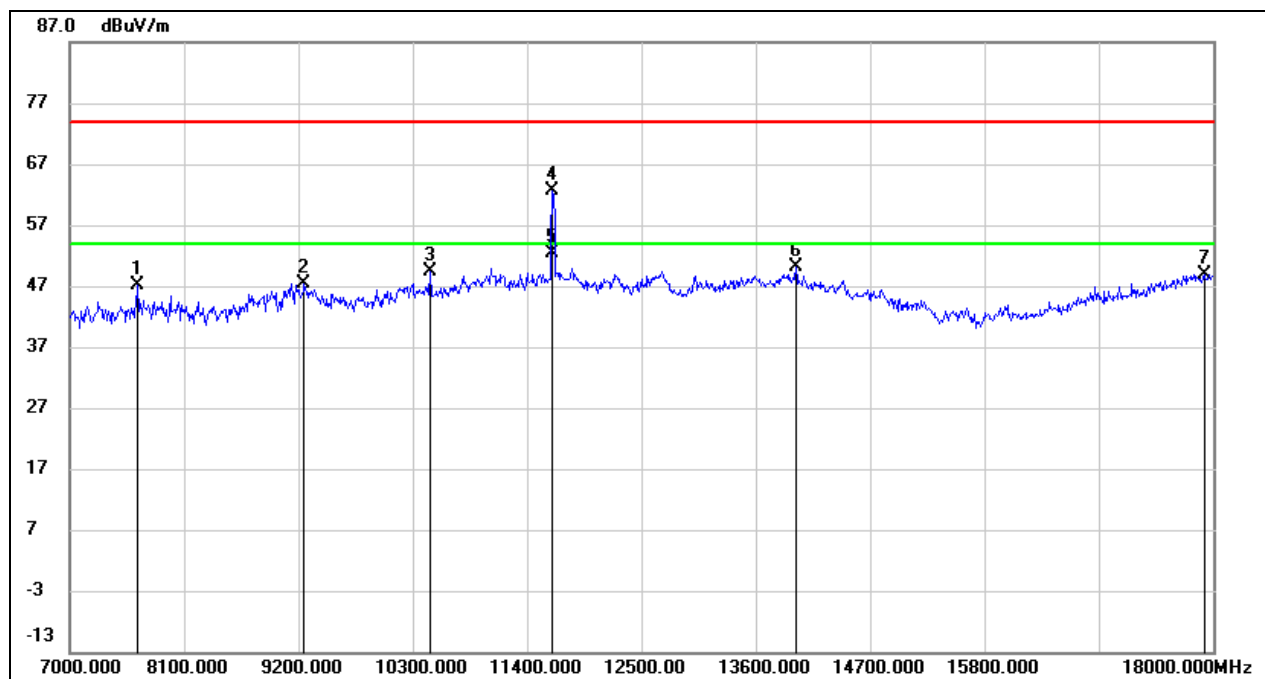
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.28	6.74	47.02	74.00	-26.98	peak
2	9255.000	36.94	10.51	47.45	74.00	-26.55	peak
3	10465.000	36.59	12.75	49.34	74.00	-24.66	peak
4	11642.000	45.50	17.03	62.53	74.00	-11.47	peak
5	11642.000	35.24	17.03	52.27	54.00	-1.73	AVG
6	13985.000	28.20	21.85	50.05	74.00	-23.95	peak
7	17912.000	23.34	25.52	48.86	74.00	-25.14	peak

Test Mode:	802.11ax HE40	Channel:	5190
Polarity:	Horizontal	Test Voltage:	DC 12 V
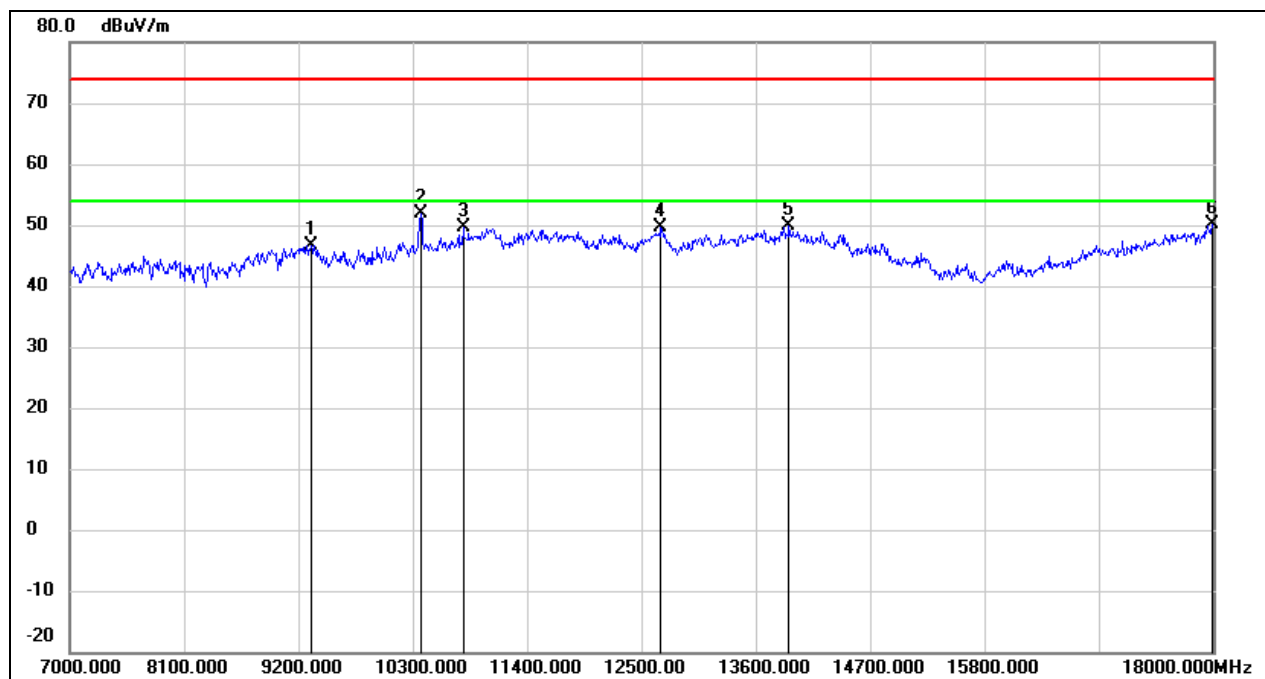
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9321.000	36.10	10.53	46.63	74.00	-27.37	peak
2	10377.000	39.20	12.56	51.76	74.00	-22.24	peak
3	10784.000	35.63	13.91	49.54	74.00	-24.46	peak
4	12687.000	31.54	18.05	49.59	74.00	-24.41	peak
5	13919.000	28.17	21.68	49.85	74.00	-24.15	peak
6	17989.000	24.02	26.04	50.06	74.00	-23.94	peak

Test Mode:	802.11ax HE40	Channel:	5190
Polarity:	Vertical	Test Voltage:	DC 12 V
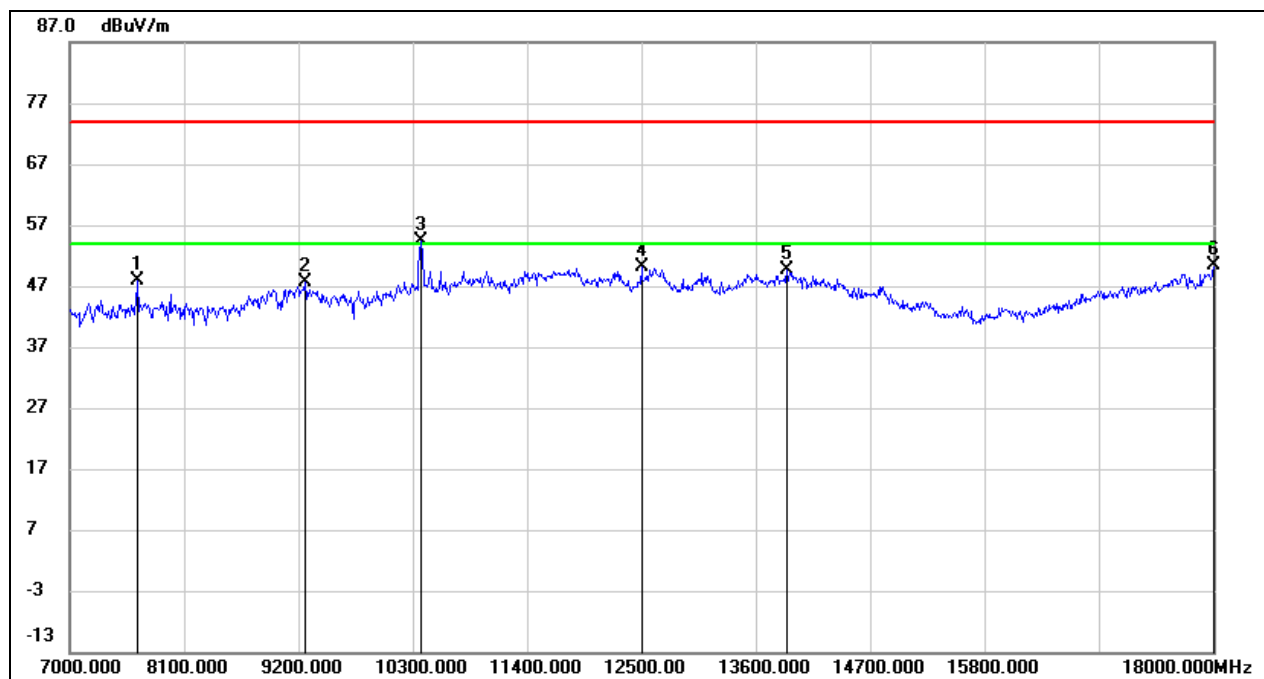
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	41.23	6.74	47.97	74.00	-26.03	peak
2	9266.000	37.17	10.51	47.68	74.00	-26.32	peak
3*	10377.000	41.83	12.56	54.39	68.20	-13.81	peak
4	12500.000	32.28	17.83	50.11	74.00	-23.89	peak
5	13897.000	27.94	21.62	49.56	74.00	-24.44	peak
6	18000.000	24.18	26.12	50.30	74.00	-23.70	peak

Test Mode:	802.11ax HE40	Channel:	5230
Polarity:	Horizontal	Test Voltage:	DC 12 V
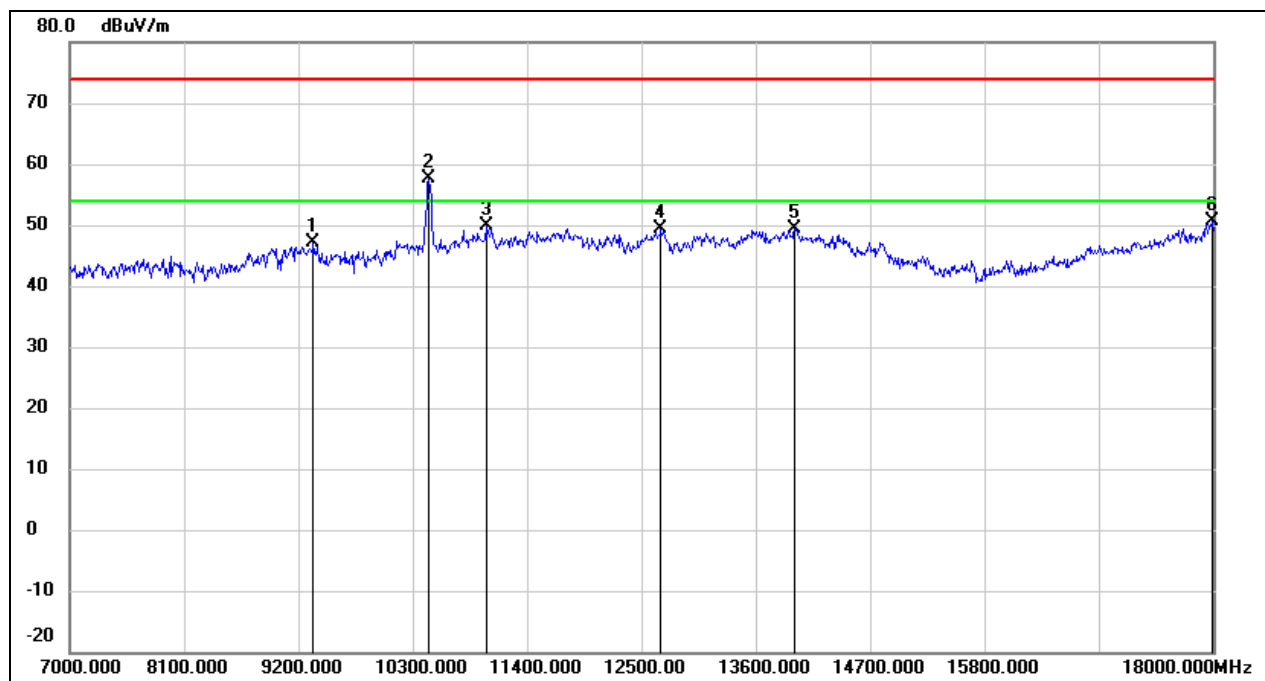
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9343.000	36.70	10.55	47.25	74.00	-26.75	peak
2*	10454.000	44.78	12.73	57.51	68.20	-10.69	peak
3	11004.000	35.23	14.74	49.97	74.00	-24.03	peak
4	12687.000	31.24	18.05	49.29	74.00	-24.71	peak
5	13974.000	27.54	21.82	49.36	74.00	-24.64	peak
6	17989.000	24.57	26.04	50.61	74.00	-23.39	peak

Test Mode:	802.11ax HE40	Channel:	5230
Polarity:	Vertical	Test Voltage:	DC 12 V
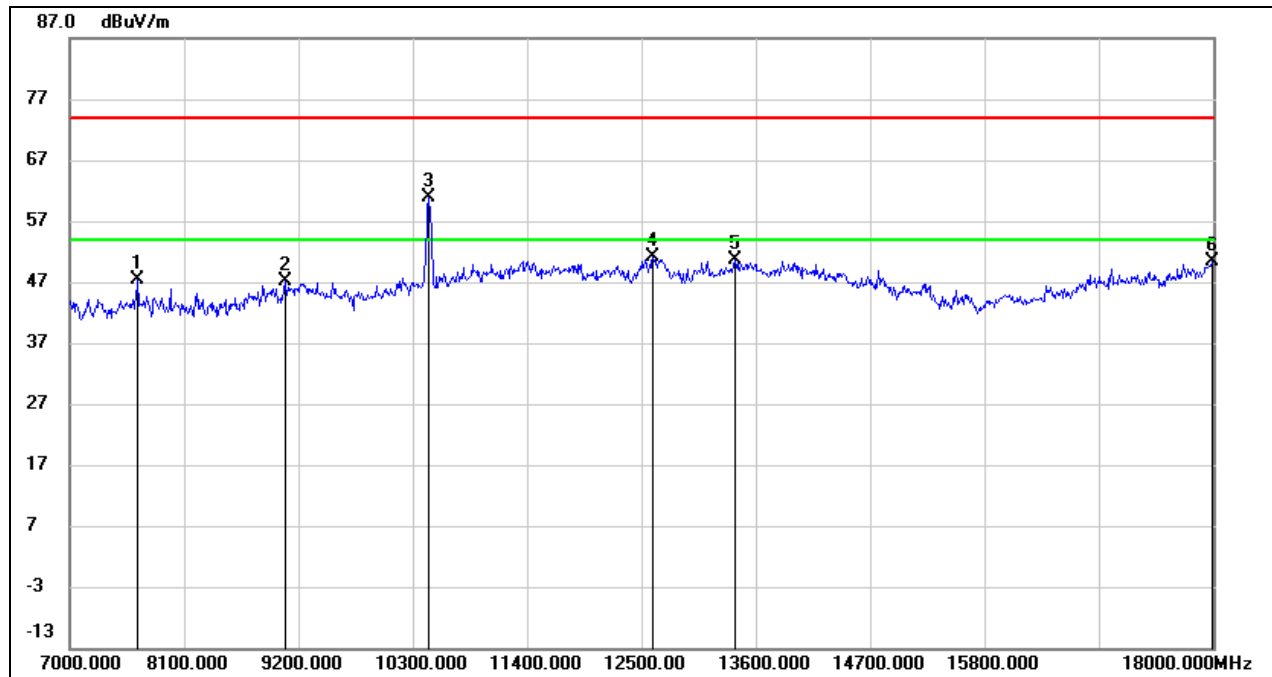
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	40.62	6.74	47.36	74.00	-26.64	peak
2	9068.000	36.62	10.39	47.01	74.00	-26.99	peak
3*	10454.000	48.15	12.73	60.88	68.20	-7.32	peak
4	12610.000	33.25	17.97	51.22	74.00	-22.78	peak
5	13402.000	30.42	20.20	50.62	74.00	-23.38	peak
6	17989.000	24.43	26.04	50.47	74.00	-23.53	peak

Test Mode:	802.11ax HE40	Channel:	5755
Polarity:	Horizontal	Test Voltage:	DC 12 V
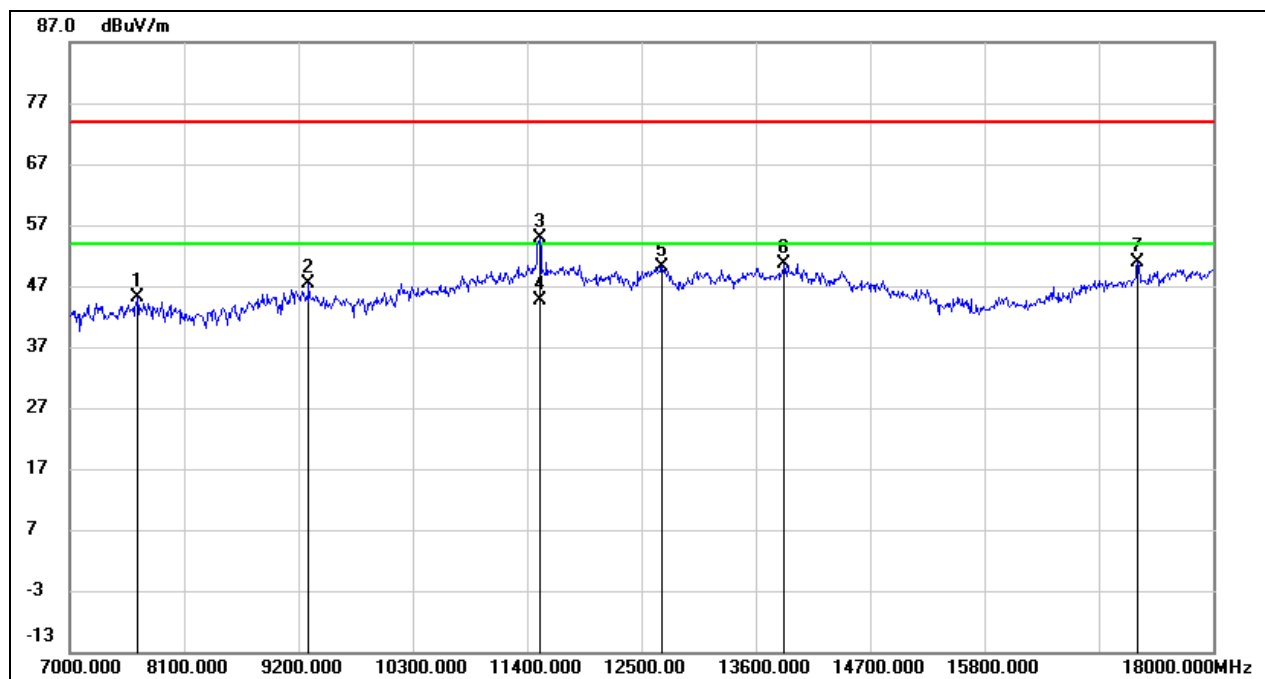
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	38.36	6.74	45.10	74.00	-28.90	peak
2	9299.000	36.76	10.53	47.29	74.00	-26.71	peak
3	11521.000	37.99	16.82	54.81	74.00	-19.19	peak
4	11521.000	27.80	16.82	44.62	54.00	-9.38	AVG
5	12698.000	32.13	18.08	50.21	74.00	-23.79	peak
6	13875.000	29.16	21.57	50.73	74.00	-23.27	peak
7	17274.000	29.01	21.76	50.77	74.00	-23.23	peak

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Test Mode:	802.11ax HE40	Channel:	5755
Polarity:	Vertical	Test Voltage:	DC 12 V
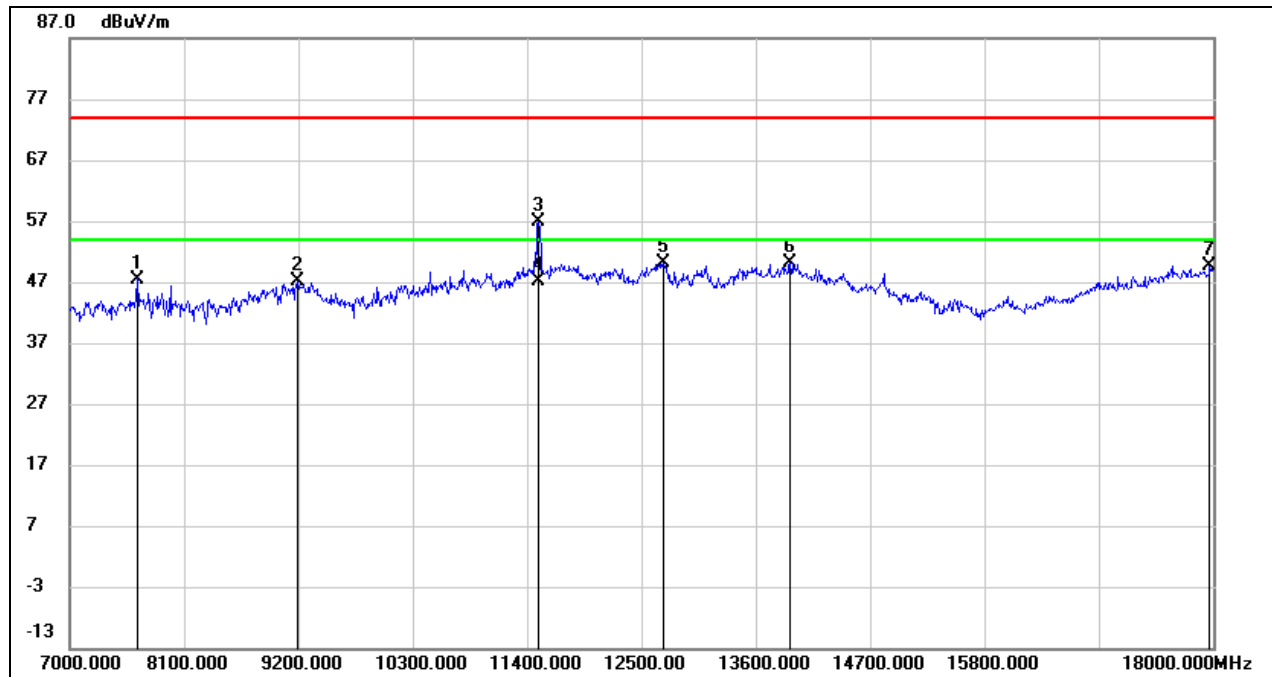
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	40.76	6.74	47.50	74.00	-26.50	peak
2	9189.000	36.64	10.46	47.10	74.00	-26.90	peak
3	11510.000	40.01	16.79	56.80	74.00	-17.20	peak
4	11510.000	30.42	16.79	47.21	54.00	-6.79	AVG
5	12709.000	31.93	18.09	50.02	74.00	-23.98	peak
6	13930.000	28.36	21.71	50.07	74.00	-23.93	peak
7	17967.000	23.82	25.89	49.71	74.00	-24.29	peak

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Test Mode:	802.11ax HE40	Channel:	5795
Polarity:	Horizontal	Test Voltage:	DC 12 V
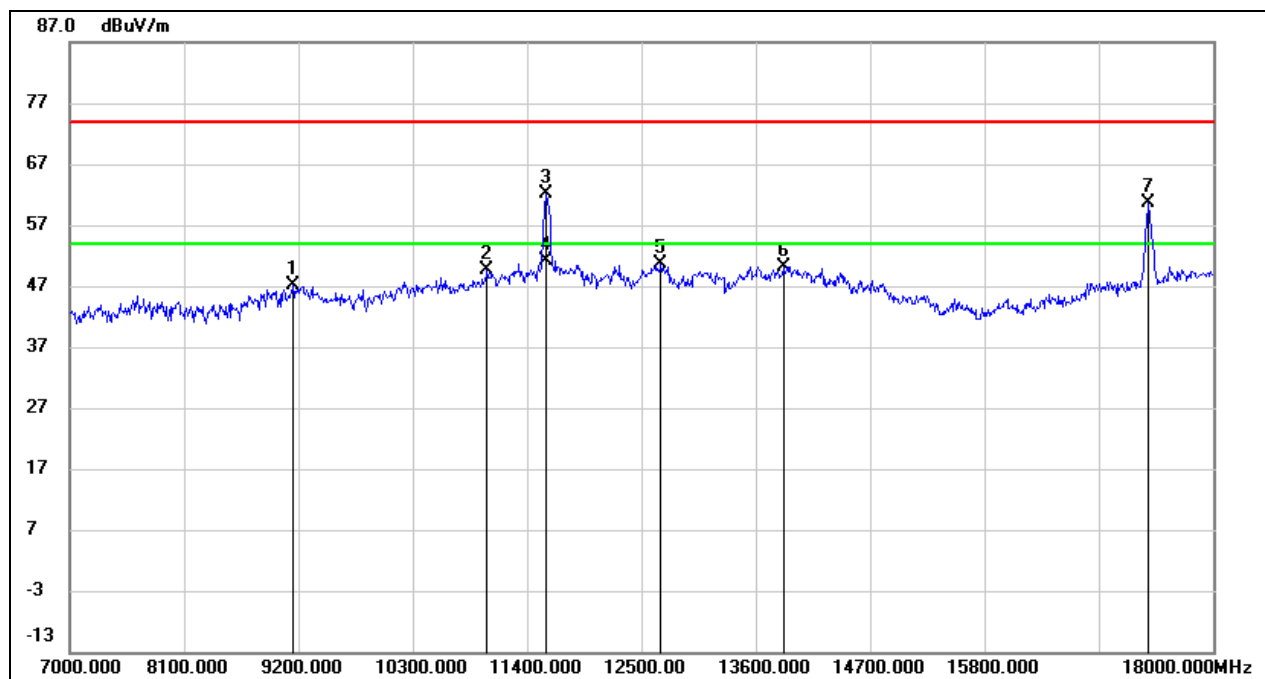
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9145.000	36.76	10.43	47.19	74.00	-26.81	peak
2	11015.000	34.89	14.79	49.68	74.00	-24.32	peak
3	11587.000	45.21	16.93	62.14	74.00	-11.86	peak
4	11587.000	34.27	16.93	51.20	54.00	-2.80	AVG
5	12687.000	32.64	18.05	50.69	74.00	-23.31	peak
6	13864.000	28.67	21.53	50.20	74.00	-23.80	peak
7*	17373.000	38.51	22.16	60.67	68.20	-7.53	peak

Test Mode:	802.11ax HE40	Channel:	5795
Polarity:	Vertical	Test Voltage:	DC 12 V
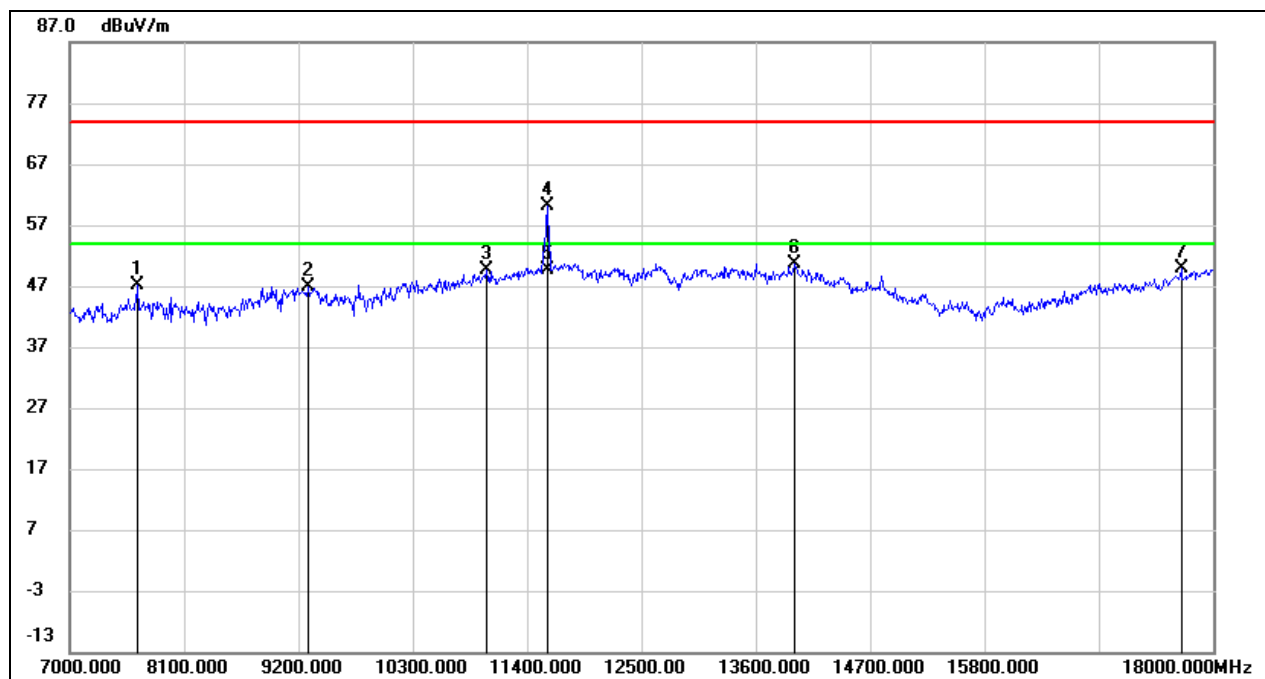
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.28	6.74	47.02	74.00	-26.98	peak
2	9299.000	36.33	10.53	46.86	74.00	-27.14	peak
3	11004.000	34.86	14.74	49.60	74.00	-24.40	peak
4	11598.000	43.18	16.96	60.14	74.00	-13.86	peak
5	11598.000	32.77	16.96	49.73	54.00	-4.27	AVG
6	13974.000	28.77	21.82	50.59	74.00	-23.41	peak
7	17692.000	25.87	24.01	49.88	74.00	-24.12	peak

Test Mode:	802.11ax HE80	Channel:	5210
Polarity:	Horizontal	Test Voltage:	DC 12 V
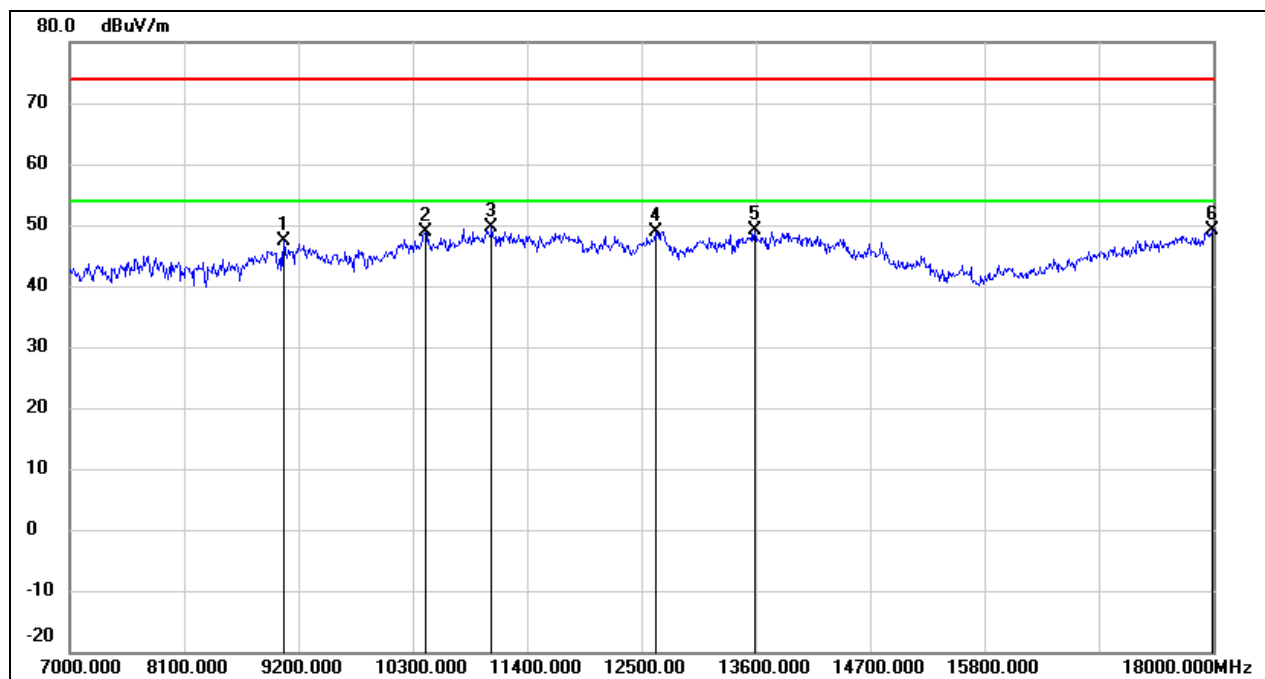
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9057.000	36.92	10.38	47.30	74.00	-26.70	peak
2	10421.000	36.23	12.66	48.89	74.00	-25.11	peak
3	11059.000	34.65	14.96	49.61	74.00	-24.39	peak
4	12632.000	31.00	17.99	48.99	74.00	-25.01	peak
5	13589.000	28.24	20.86	49.10	74.00	-24.90	peak
6	17989.000	23.01	26.04	49.05	74.00	-24.95	peak

Test Mode:	802.11ax HE80	Channel:	5210
Polarity:	Vertical	Test Voltage:	DC 12 V
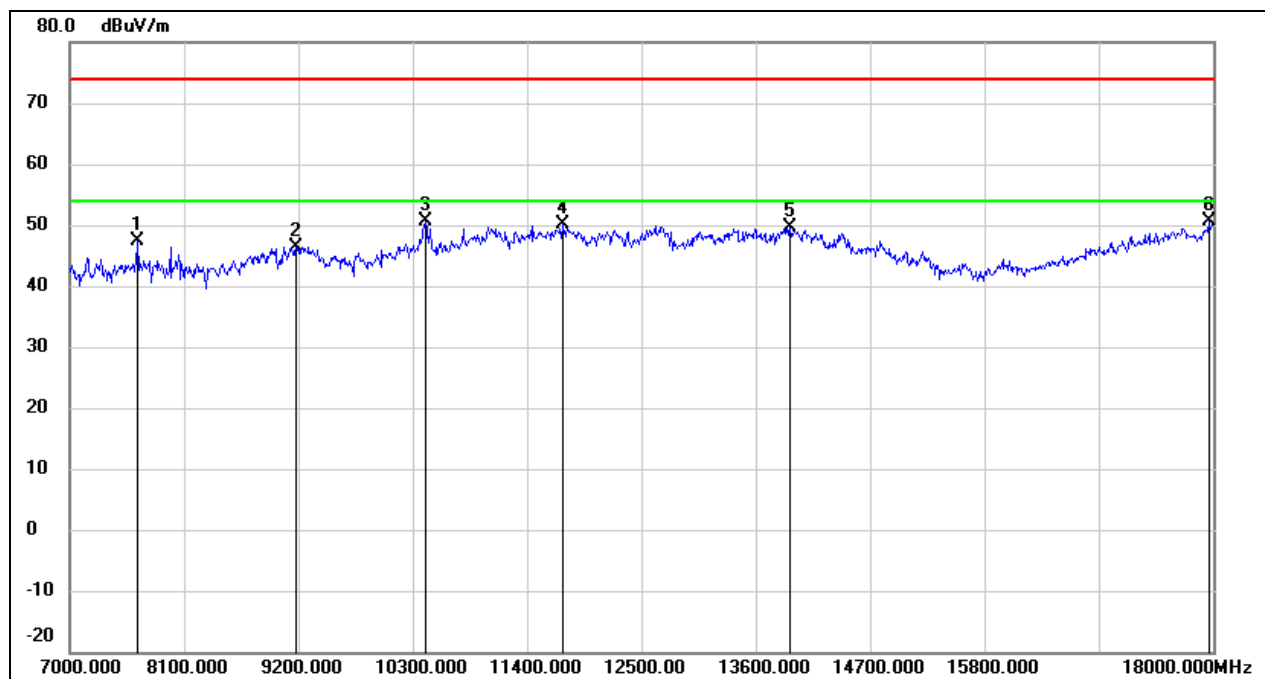
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.56	6.74	47.30	74.00	-26.70	peak
2	9178.000	36.03	10.45	46.48	74.00	-27.52	peak
3	10421.000	38.03	12.66	50.69	74.00	-23.31	peak
4	11741.000	32.98	17.22	50.20	74.00	-23.80	peak
5	13930.000	27.97	21.71	49.68	74.00	-24.32	peak
6	17956.000	24.88	25.82	50.70	74.00	-23.30	peak

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Test Mode:	802.11ax HE80	Channel:	5775
Polarity:	Horizontal	Test Voltage:	DC 12 V
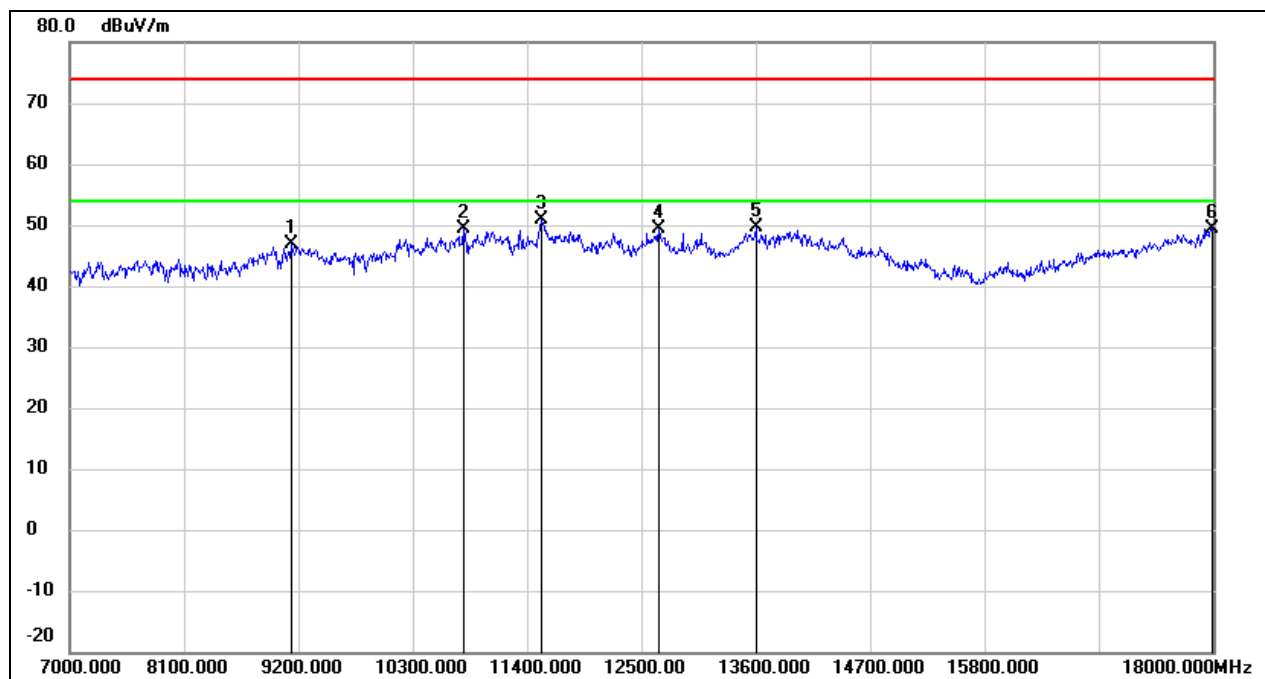
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9134.000	36.40	10.41	46.81	74.00	-27.19	peak
2	10784.000	35.49	13.91	49.40	74.00	-24.60	peak
3	11543.000	33.96	16.84	50.80	74.00	-23.20	peak
4	12665.000	31.36	18.04	49.40	74.00	-24.60	peak
5	13600.000	28.65	20.89	49.54	74.00	-24.46	peak
6	17989.000	23.35	26.04	49.39	74.00	-24.61	peak

Test Mode:	802.11ax HE80	Channel:	5775
Polarity:	Vertical	Test Voltage:	DC 12 V
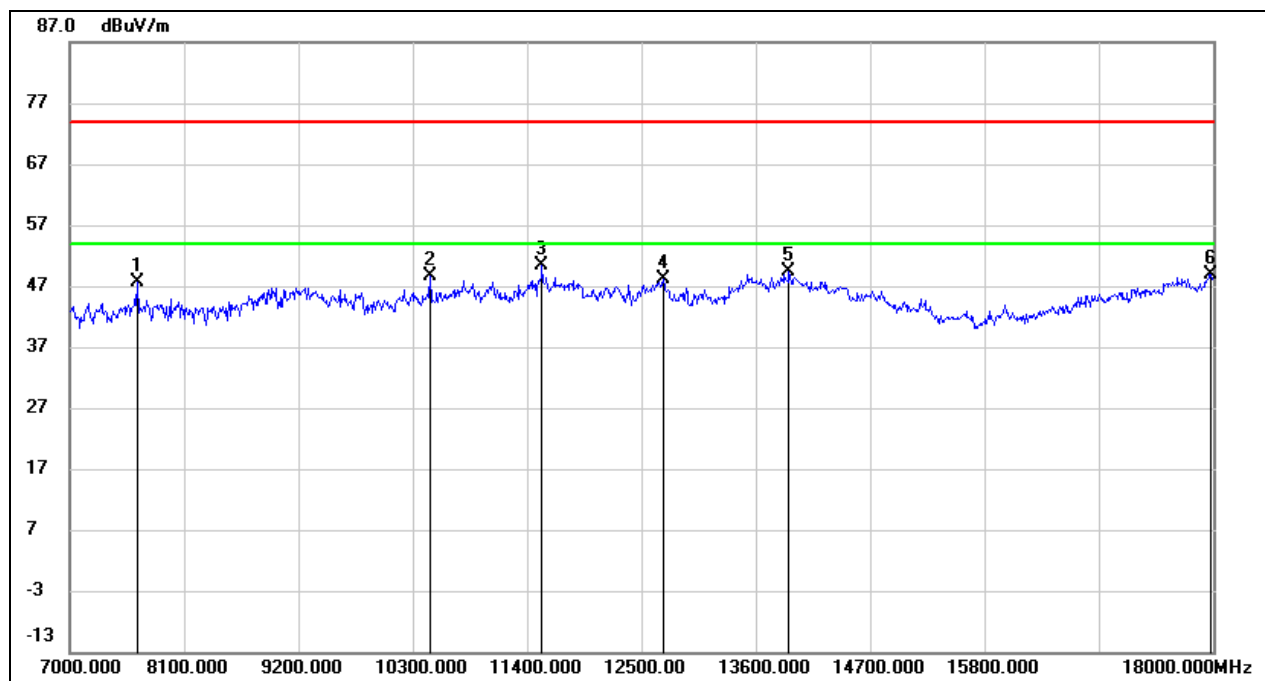
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7649.000	40.85	6.74	47.59	74.00	-26.41	peak
2	10465.000	35.83	12.75	48.58	74.00	-25.42	peak
3	11543.000	33.59	16.84	50.43	74.00	-23.57	peak
4	12709.000	30.12	18.09	48.21	74.00	-25.79	peak
5	13919.000	27.81	21.68	49.49	74.00	-24.51	peak
6	17978.000	22.96	25.97	48.93	74.00	-25.07	peak

Test Mode:	802.11ax HE160	Channel:	5250
Polarity:	Horizontal	Test Voltage:	DC 12 V
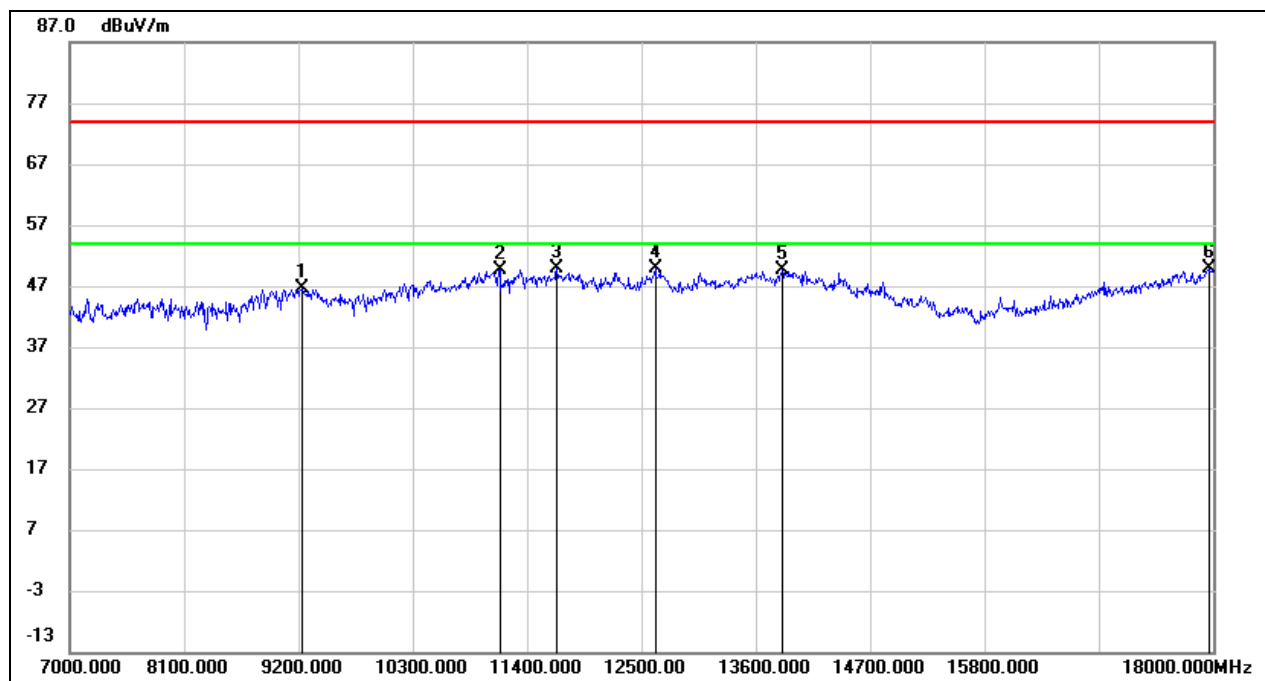
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9233.000	36.07	10.48	46.55	74.00	-27.45	peak
2	11136.000	34.36	15.27	49.63	74.00	-24.37	peak
3	11686.000	32.76	17.12	49.88	74.00	-24.12	peak
4	12632.000	31.77	17.99	49.76	74.00	-24.24	peak
5	13853.000	28.04	21.52	49.56	74.00	-24.44	peak
6	17967.000	23.93	25.89	49.82	74.00	-24.18	peak

| Test Mode: | 802.11ax HE160 | Channel: | 5250 |
| Polarity: | Vertical | Test Voltage: | DC 12 V |
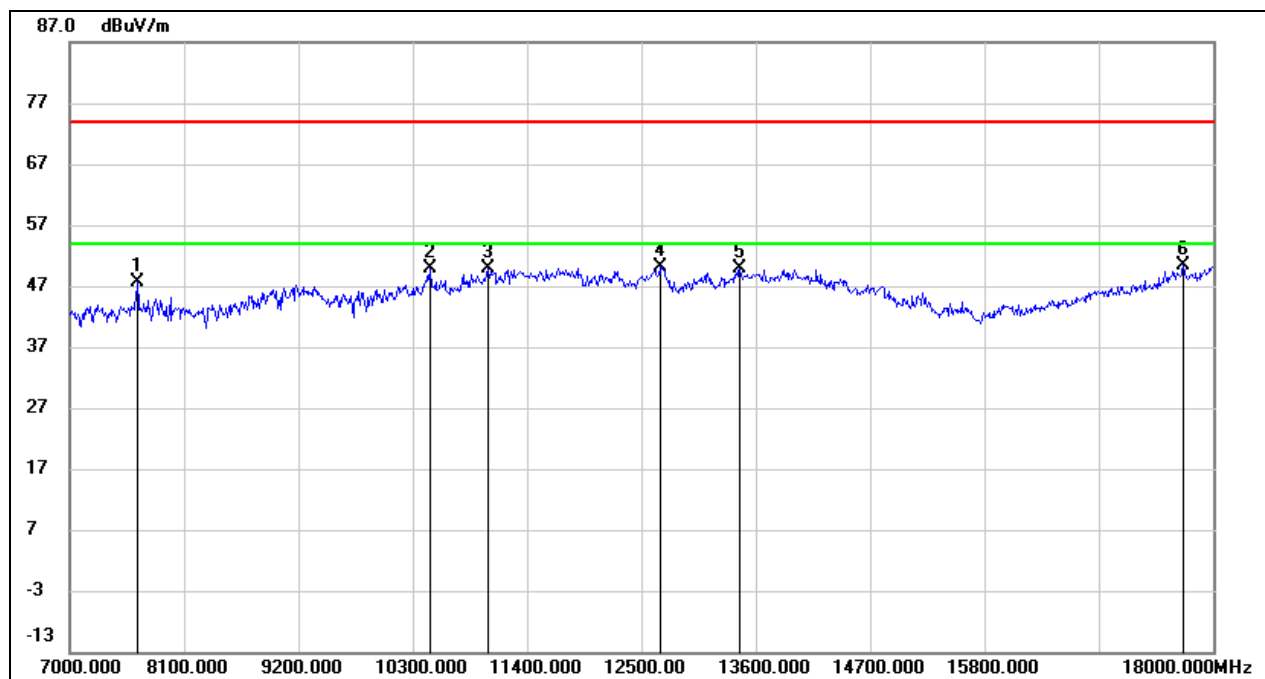
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7649.000	40.99	6.74	47.73	74.00	-26.27	peak
2	10465.000	37.04	12.75	49.79	74.00	-24.21	peak
3	11026.000	35.03	14.82	49.85	74.00	-24.15	peak
4	12676.000	32.14	18.05	50.19	74.00	-23.81	peak
5	13446.000	29.43	20.41	49.84	74.00	-24.16	peak
6	17714.000	26.15	24.16	50.31	74.00	-23.69	peak

8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	802.11a20	Channel:	5180
Polarity:	Horizontal	Test Voltage:	DC 12 V
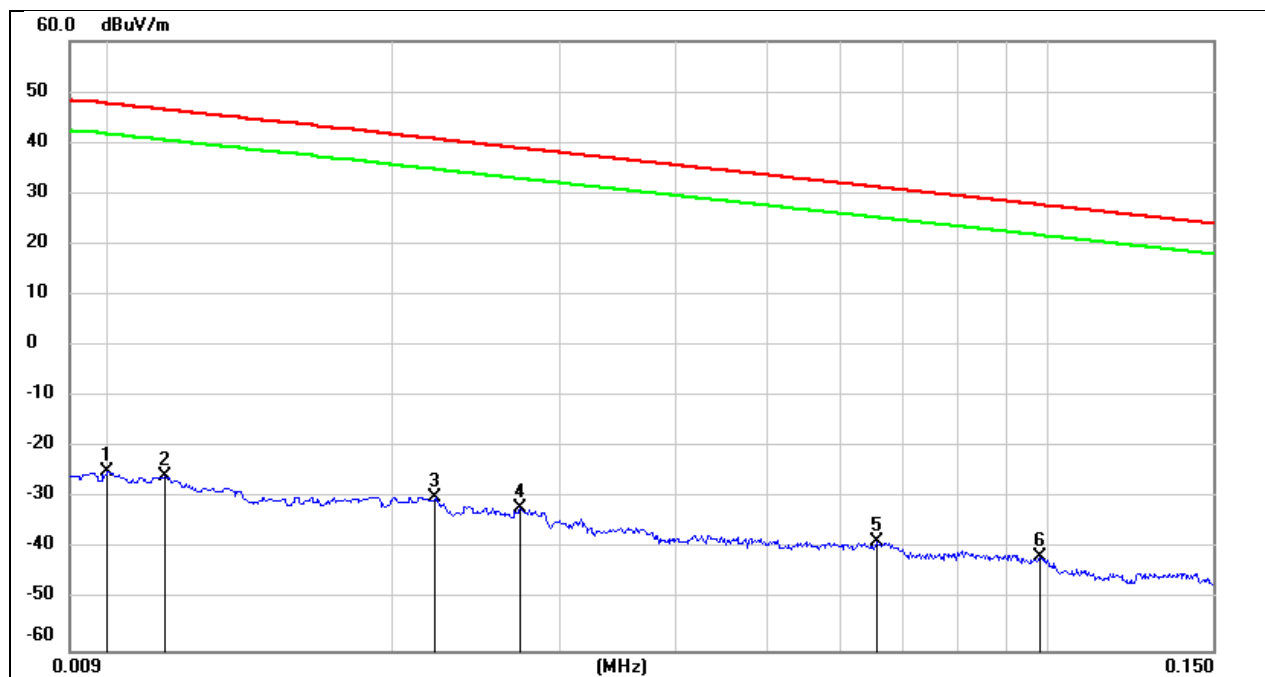
No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0100	76.72	-101.40	-24.68	47.60	-76.18	-3.90	-72.28	peak
2	0.0114	75.88	-101.40	-25.52	46.46	-77.02	-5.04	-71.98	peak
3	0.0221	71.63	-101.35	-29.72	40.71	-81.22	-10.79	-70.43	peak
4	0.0273	69.49	-101.38	-31.89	38.88	-83.39	-12.62	-70.77	peak
5	0.0656	62.86	-101.55	-38.69	31.26	-90.19	-20.24	-69.95	peak
6	0.0981	60.27	-101.78	-41.51	27.77	-93.01	-23.73	-69.28	peak

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Test Mode:	802.11a20	Channel:	5180
Polarity:	Horizontal	Test Voltage:	DC 12 V
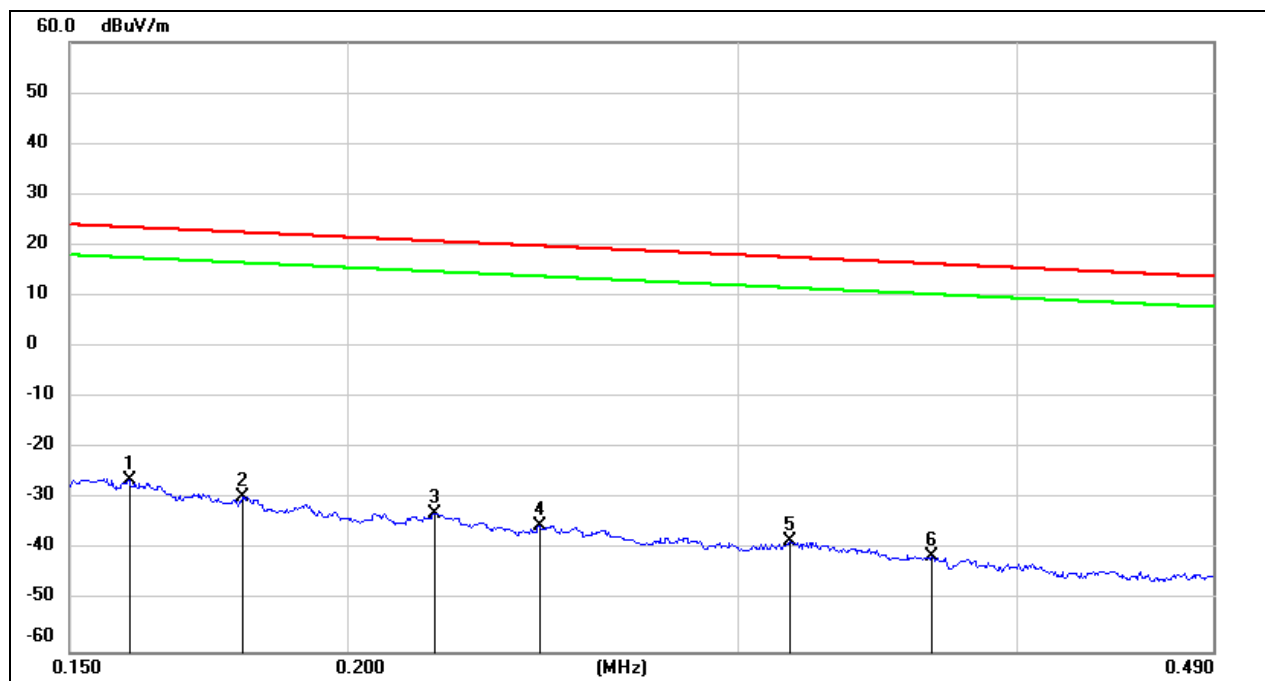
No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1595	75.36	-101.65	-26.29	23.55	-77.79	-27.95	-49.84	peak
2	0.1794	72.27	-101.68	-29.41	22.53	-80.91	-28.97	-51.94	peak
3	0.2190	68.77	-101.75	-32.98	20.79	-84.48	-30.71	-53.77	peak
4	0.2442	66.53	-101.79	-35.26	19.85	-86.76	-31.65	-55.11	peak
5	0.3163	63.70	-101.87	-38.17	17.60	-89.67	-33.90	-55.77	peak
6	0.3662	60.58	-101.93	-41.35	16.33	-92.85	-35.17	-57.68	peak

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Test Mode:	802.11a20	Channel:	5180
Polarity:	Horizontal	Test Voltage:	DC 12 V
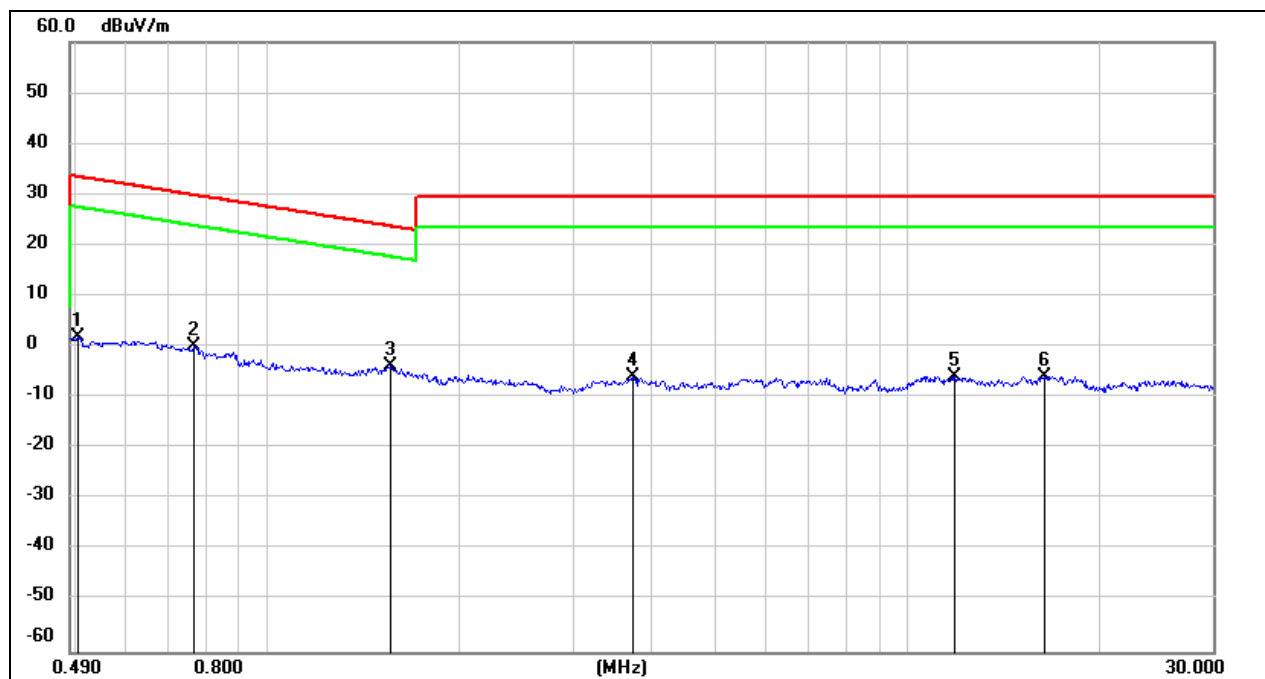
No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.5039	63.93	-62.07	1.86	33.56	-49.64	-17.94	-31.70	peak
2	0.7641	62.42	-62.12	0.30	29.94	-51.20	-21.56	-29.64	peak
3	1.5564	58.18	-62.02	-3.84	23.76	-55.34	-27.74	-27.60	peak
4	3.7100	55.70	-61.41	-5.71	29.54	-57.21	-21.96	-35.25	peak
5	11.8513	55.06	-60.88	-5.82	29.54	-57.32	-21.96	-35.36	peak
6	16.3959	55.17	-60.96	-5.79	29.54	-57.29	-21.96	-35.33	peak

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8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	802.11a 20	Channel:	5180
Polarity:	Horizontal	Test Voltage:	DC 12 V
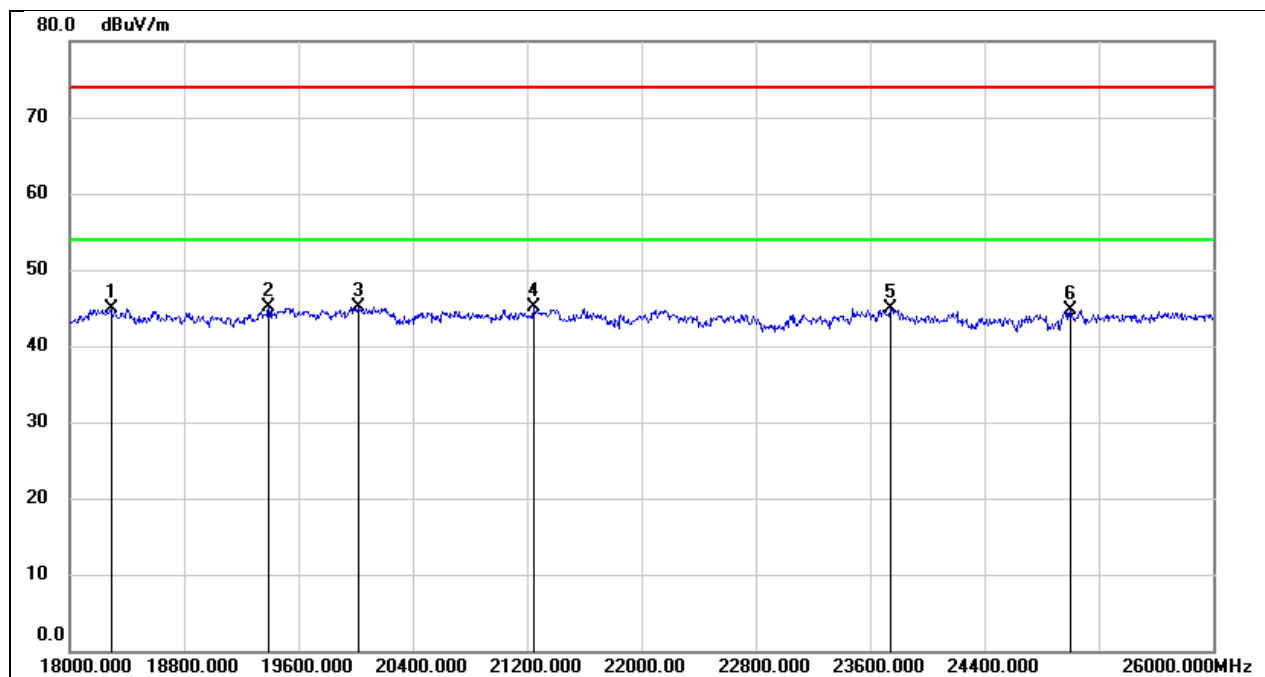
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18288.000	50.35	-5.50	44.85	74.00	-29.15	peak
2	19392.000	50.62	-5.57	45.05	74.00	-28.95	peak
3	20016.000	50.56	-5.47	45.09	74.00	-28.91	peak
4	21248.000	49.79	-4.77	45.02	74.00	-28.98	peak
5	23744.000	48.15	-3.20	44.95	74.00	-29.05	peak
6	25000.000	46.86	-2.10	44.76	74.00	-29.24	peak

Test Mode:	802.11a 20	Channel:	5180
Polarity:	Vertical	Test Voltage:	DC 12 V
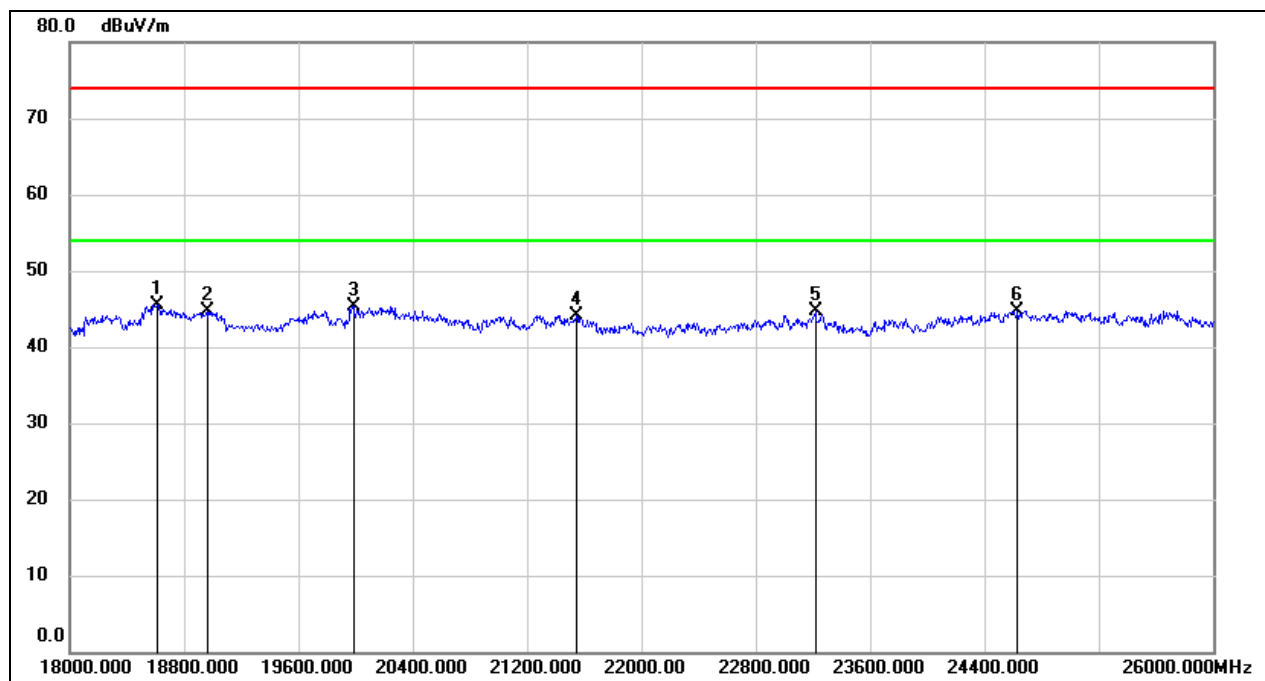
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18616.000	50.89	-5.34	45.55	74.00	-28.45	peak
2	18960.000	50.01	-5.25	44.76	74.00	-29.24	peak
3	19984.000	50.71	-5.44	45.27	74.00	-28.73	peak
4	21544.000	48.76	-4.63	44.13	74.00	-29.87	peak
5	23216.000	48.01	-3.38	44.63	74.00	-29.37	peak
6	24632.000	46.96	-2.31	44.65	74.00	-29.35	peak

8.6. SPURIOUS EMISSIONS(26 GHZ~40 GHZ)

Test Mode:	802.11a 20	Channel:	5180
Polarity:	Horizontal	Test Voltage:	DC 12 V
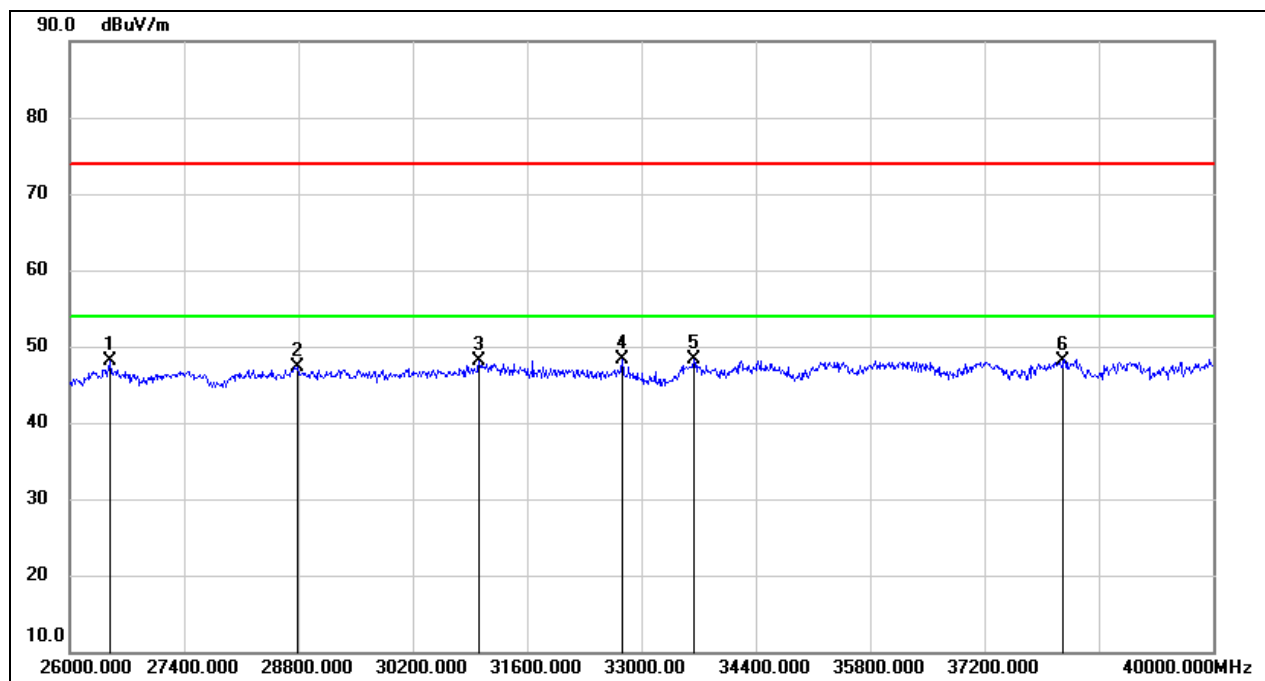
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26490.000	52.79	-4.74	48.05	74.00	-25.95	peak
2	28786.000	47.99	-0.64	47.35	74.00	-26.65	peak
3	31012.000	48.83	-0.71	48.12	74.00	-25.88	peak
4	32762.000	49.45	-1.21	48.24	74.00	-25.76	peak
5	33644.000	47.81	0.42	48.23	74.00	-25.77	peak
6	38166.000	44.42	3.66	48.08	74.00	-25.92	peak

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Test Mode:	802.11a 20	Channel:	5180
Polarity:	Vertical	Test Voltage:	DC 12 V
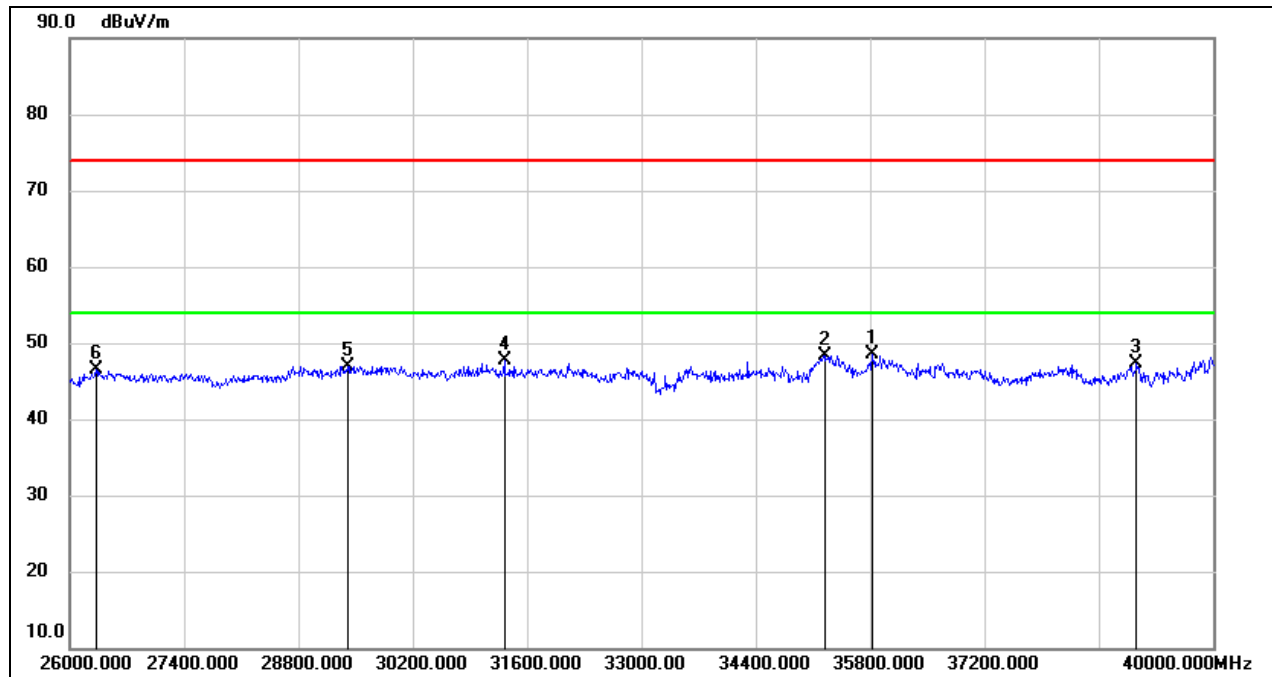
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	35828.000	44.75	3.67	48.42	74.00	-25.58	peak
2	35254.000	45.62	2.65	48.27	74.00	-25.73	peak
3	39062.000	42.98	4.30	47.28	74.00	-26.72	peak
4	31320.000	48.61	-0.93	47.68	74.00	-26.32	peak
5	29402.000	47.80	-0.82	46.98	74.00	-27.02	peak
6	26322.000	51.62	-5.18	46.44	74.00	-27.56	peak

8.7. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11a 20	Channel:	5180
Polarity:	Horizontal	Test Voltage:	DC 12 V
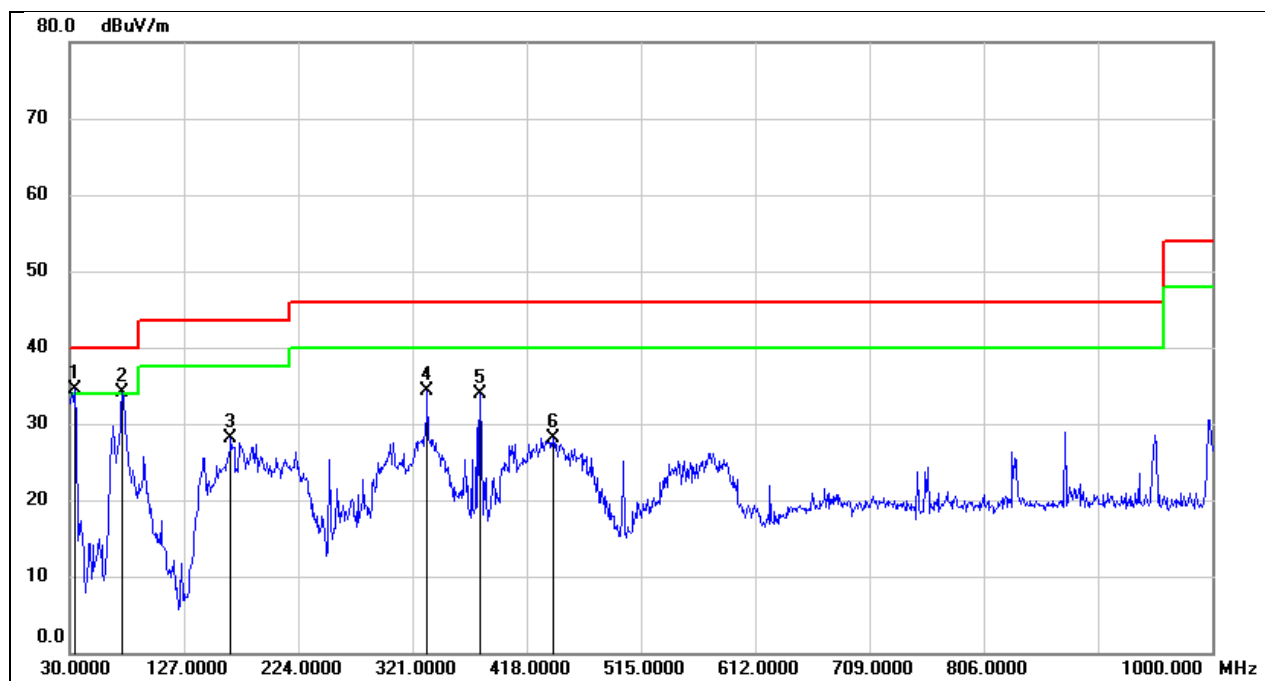
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34.8500	53.46	-18.99	34.47	40.00	-5.53	QP
2	74.6200	55.31	-21.12	34.19	40.00	-5.81	QP
3	166.7700	45.19	-17.13	28.06	43.50	-15.44	QP
4	333.6099	47.94	-13.68	34.26	46.00	-11.74	QP
5	378.2300	46.75	-12.89	33.86	46.00	-12.14	QP
6	440.3100	40.09	-11.96	28.13	46.00	-17.87	QP

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Test Mode:	802.11a 20	Channel:	5180
Polarity:	Vertical	Test Voltage:	DC 12 V
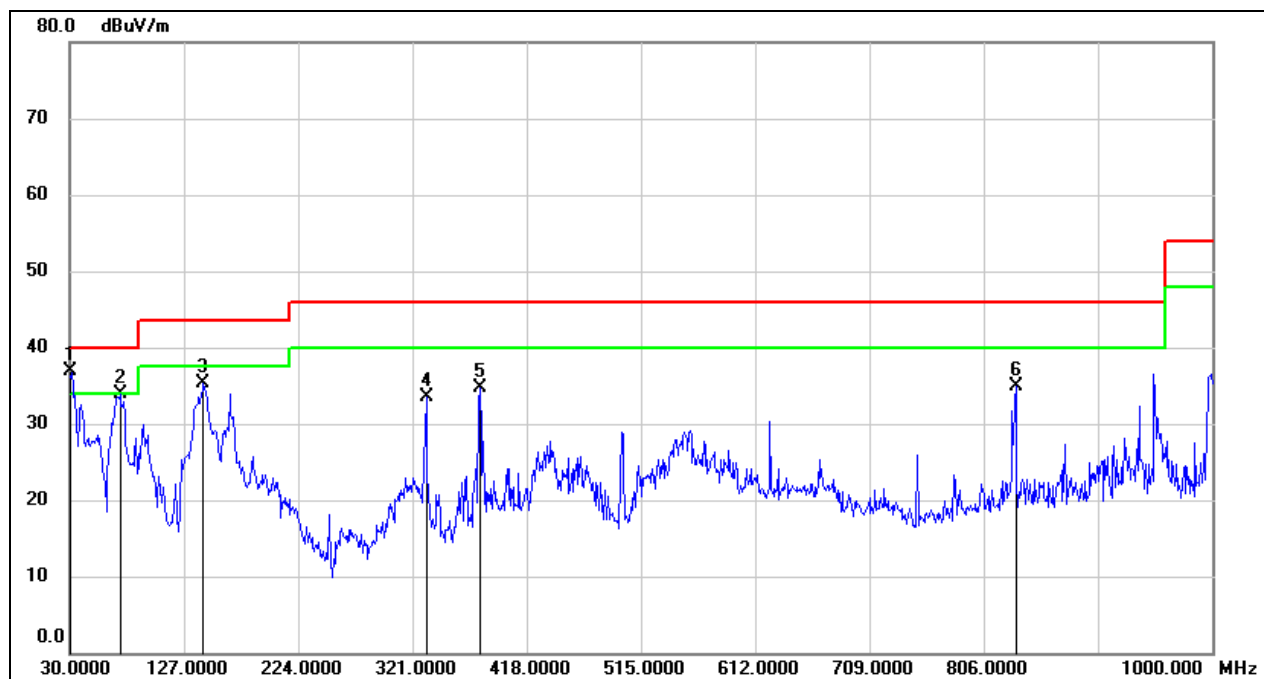
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	55.05	-18.24	36.81	40.00	-3.19	QP
2	72.6800	54.82	-20.96	33.86	40.00	-6.14	QP
3	143.4900	54.00	-18.69	35.31	43.50	-8.19	QP
4	332.6400	47.27	-13.74	33.53	46.00	-12.47	QP
5	378.2300	47.56	-12.89	34.67	46.00	-11.33	QP
6	833.1599	41.20	-6.38	34.82	46.00	-11.18	QP

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9. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

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

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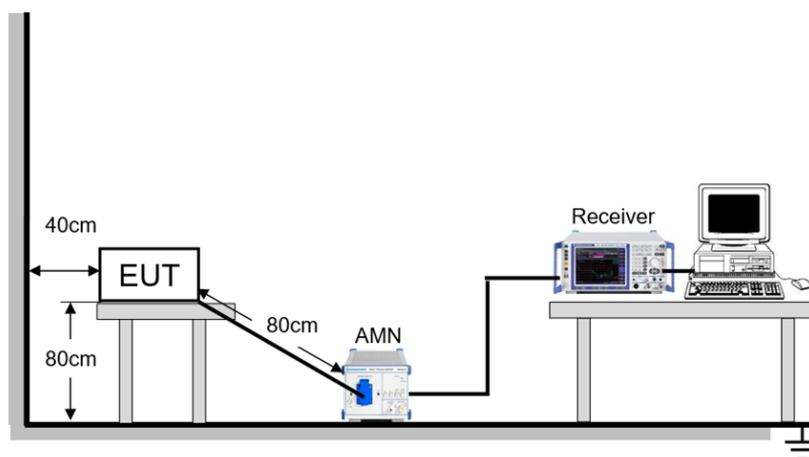
TEST ENVIRONMENT

Temperature	24.6℃	Relative Humidity	58%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	June 12, 2023	Test By	Wite Chen

TEST RESULTS

Test Mode:	802.11a20	Channel:	5180
Line:	Line	Test Voltage:	AC 120 V, 60 Hz

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1575	31.90	9.59	41.49	65.59	-24.10	QP
2	0.1575	20.20	9.59	29.79	55.59	-25.80	AVG
3	0.1830	29.38	9.59	38.97	64.35	-25.38	QP
4	0.1830	15.53	9.59	25.12	54.35	-29.23	AVG
5	0.2914	28.82	9.59	38.41	60.48	-22.07	QP
6	0.2914	20.50	9.59	30.09	50.48	-20.39	AVG
7	0.3429	29.86	9.59	39.45	59.13	-19.68	QP
8	0.3429	25.05	9.59	34.64	49.13	-14.49	AVG
9	10.5286	15.57	9.73	25.30	60.00	-34.70	QP
10	10.5286	9.23	9.73	18.96	50.00	-31.04	AVG
11	26.7442	18.35	9.74	28.09	60.00	-31.91	QP
12	26.7442	12.82	9.74	22.56	50.00	-27.44	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:	802.11a20	Channel:	5180
Line:	Neutral	Test Voltage:	AC 120 V, 60 Hz
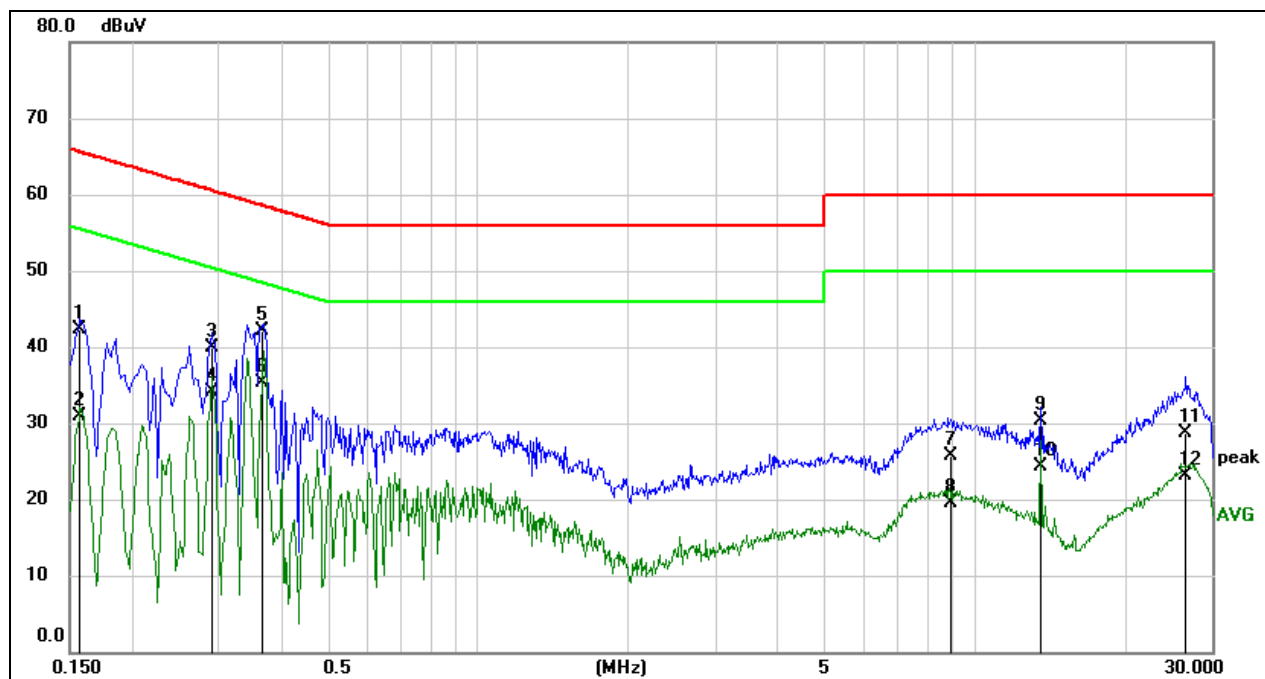
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1578	32.75	9.51	42.26	65.58	-23.32	QP
2	0.1578	21.33	9.51	30.84	55.58	-24.74	AVG
3	0.2896	30.42	9.56	39.98	60.54	-20.56	QP
4	0.2896	24.45	9.56	34.01	50.54	-16.53	AVG
5	0.3654	32.60	9.53	42.13	58.60	-16.47	QP
6	0.3654	25.87	9.53	35.40	48.60	-13.20	AVG
7	8.9250	16.02	9.61	25.63	60.00	-34.37	QP
8	8.9250	9.81	9.61	19.42	50.00	-30.58	AVG
9	13.5604	20.73	9.66	30.39	60.00	-29.61	QP
10	13.5604	14.55	9.66	24.21	50.00	-25.79	AVG
11	26.5618	18.96	9.69	28.65	60.00	-31.35	QP
12	26.5618	13.38	9.69	23.07	50.00	-26.93	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.
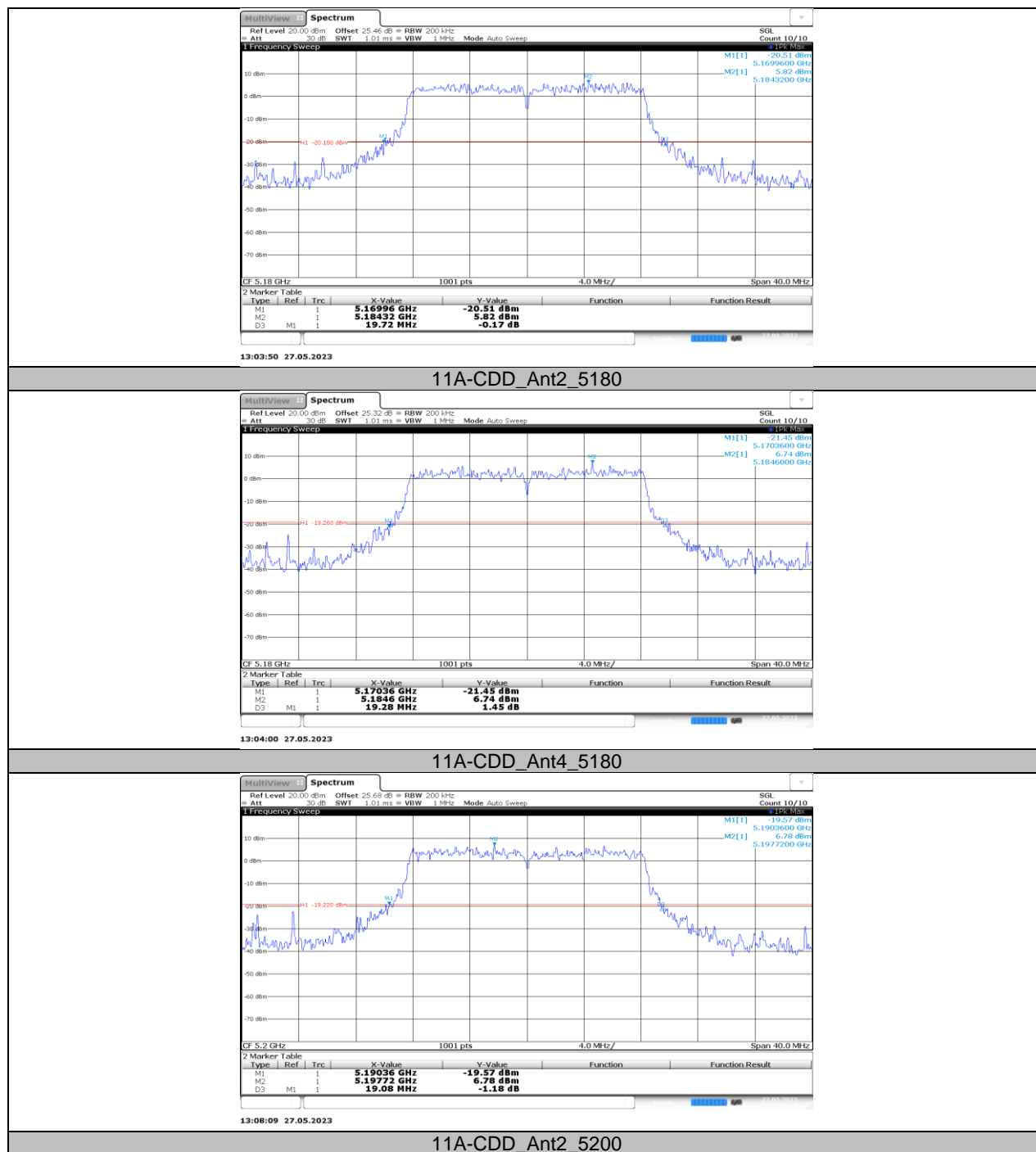
DESCRIPTION
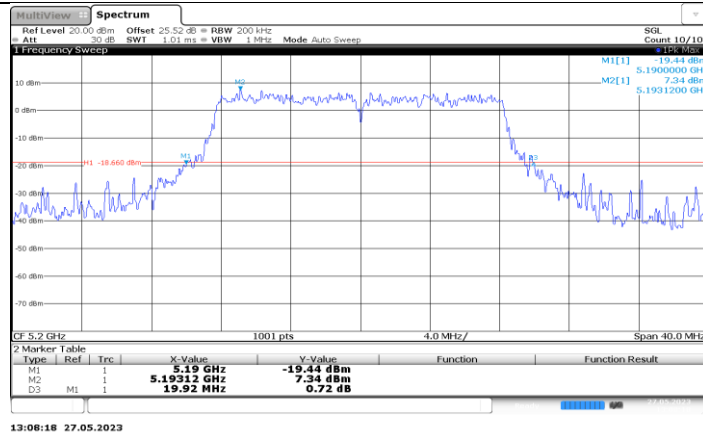
Pass

11. TEST DATA

11.1. APPENDIX A: EMISSION BANDWIDTH

11.1.1. Test Result

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A-CDD	Ant2	5180	19.72	5169.96	5189.68	PASS
	Ant4	5180	19.28	5170.36	5189.64	PASS
	Ant2	5200	19.08	5190.36	5209.44	PASS
	Ant4	5200	19.92	5190.00	5209.92	PASS
	Ant2	5240	19.36	5230.04	5249.40	PASS
	Ant4	5240	20.64	5229.20	5249.84	PASS
	Ant2	5745	19.72	5734.92	5754.64	PASS
	Ant4	5745	20.00	5734.92	5754.92	PASS
	Ant2	5785	19.80	5775.08	5794.88	PASS
	Ant4	5785	19.24	5775.68	5794.92	PASS
	Ant2	5825	19.36	5815.20	5834.56	PASS
	Ant4	5825	19.28	5815.08	5834.36	PASS
11AC20MIMO	Ant2	5180	21.56	5169.12	5190.68	PASS
	Ant4	5180	21.76	5168.88	5190.64	PASS
	Ant2	5200	21.52	5189.12	5210.64	PASS
	Ant4	5200	21.00	5189.40	5210.40	PASS
	Ant2	5240	21.12	5229.28	5250.40	PASS
	Ant4	5240	21.88	5228.88	5250.76	PASS
	Ant2	5745	21.12	5734.24	5755.36	PASS
	Ant4	5745	21.08	5734.32	5755.40	PASS
	Ant2	5785	21.92	5773.84	5795.76	PASS
	Ant4	5785	24.60	5772.36	5796.96	PASS
	Ant2	5825	21.88	5813.56	5835.44	PASS
	Ant4	5825	32.32	5808.40	5840.72	PASS
11AC40MIMO	Ant2	5190	44.88	5167.60	5212.48	PASS
	Ant4	5190	47.36	5167.28	5214.64	PASS
	Ant2	5230	44.96	5207.52	5252.48	PASS
	Ant4	5230	43.36	5208.40	5251.76	PASS
	Ant2	5755	46.48	5732.36	5778.84	PASS
	Ant4	5755	59.20	5723.72	5782.92	PASS
	Ant2	5795	44.72	5772.04	5816.76	PASS
	Ant4	5795	54.48	5766.12	5820.60	PASS
11AC80MIMO	Ant2	5210	91.04	5164.08	5255.12	PASS
	Ant4	5210	87.36	5166.16	5253.52	PASS
	Ant2	5775	91.20	5728.60	5819.80	PASS
	Ant4	5775	88.96	5730.20	5819.16	PASS
11AC160MIMO	Ant2	5250	220.48	5134.80	5355.28	PASS
	Ant4	5250	199.36	5135.12	5334.48	PASS
	Ant2	5250_UNII-1	115.2	5134.80	5250	PASS
	Ant4	5250_UNII-1	114.88	5135.12	5250	PASS
	Ant2	5250_UNII-2A	105.28	5250	5355.28	PASS
	Ant4	5250_UNII-2A	84.48	5250	5334.48	PASS
11AX20MIMO	Ant2	5180	20.88	5169.44	5190.32	PASS
	Ant4	5180	21.00	5169.44	5190.44	PASS
	Ant2	5200	22.00	5188.92	5210.92	PASS
	Ant4	5200	20.88	5189.12	5210.00	PASS
	Ant2	5240	20.88	5229.52	5250.40	PASS
	Ant4	5240	21.60	5229.48	5251.08	PASS
	Ant2	5745	21.08	5734.48	5755.56	PASS
	Ant4	5745	20.84	5734.48	5755.32	PASS
	Ant2	5785	20.44	5774.68	5795.12	PASS
	Ant4	5785	21.56	5774.16	5795.72	PASS

	Ant2	5825	20.76	5814.48	5835.24	PASS
	Ant4	5825	21.24	5814.36	5835.60	PASS
11AX40MIMO	Ant2	5190	41.92	5169.12	5211.04	PASS
	Ant4	5190	42.48	5168.64	5211.12	PASS
	Ant2	5230	43.28	5208.40	5251.68	PASS
	Ant4	5230	41.52	5209.36	5250.88	PASS
	Ant2	5755	41.12	5734.60	5775.72	PASS
	Ant4	5755	41.28	5733.80	5775.08	PASS
	Ant2	5795	41.52	5773.80	5815.32	PASS
	Ant4	5795	42.16	5773.72	5815.88	PASS
11AX80MIMO	Ant2	5210	86.72	5166.16	5252.88	PASS
	Ant4	5210	87.20	5165.68	5252.88	PASS
	Ant2	5775	86.08	5731.96	5818.04	PASS
	Ant4	5775	85.12	5731.64	5816.76	PASS
11AX160MIMO	Ant2	5250	171.84	5164.24	5336.08	PASS
	Ant4	5250	172.48	5163.60	5336.08	PASS
	Ant2	5250_UNII-1	85.76	5164.24	5250	PASS
	Ant4	5250_UNII-1	86.4	5163.60	5250	PASS
	Ant2	5250_UNII-2A	86.08	5250	5336.08	PASS
	Ant4	5250_UNII-2A	86.08	5250	5336.08	PASS

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11.1.2. Test Graphs

11A-CDD_Ant2_5180

11A-CDD_Ant4_5180

11A-CDD_Ant2_5200

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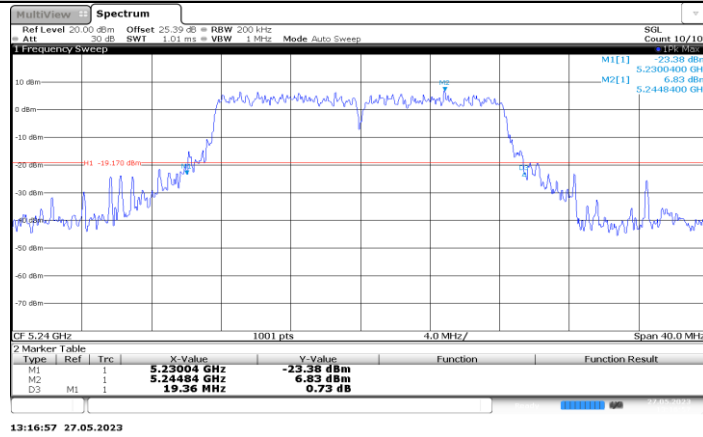
11A-CDD_Ant4_5200

11A-CDD_Ant2_5240

11A-CDD_Ant4_5240

11A-CDD_Ant2_5745

11A-CDD_Ant4_5745

11A-CDD_Ant2_5785

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11A-CDD_Ant4_5785

11A-CDD_Ant2_5825

11A-CDD_Ant4_5825

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11AC20MIMO_Ant2_5180

11AC20MIMO_Ant4_5180

11AC20MIMO_Ant2_5200

11AC20MIMO_Ant4_5200

11AC20MIMO_Ant2_5240

11AC20MIMO_Ant4_5240

11AC20MIMO_Ant2_5745

11AC20MIMO_Ant4_5745

11AC20MIMO_Ant2_5785

11AC20MIMO_Ant4_5785

11AC20MIMO_Ant2_5825

11AC20MIMO_Ant4_5825

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11AC40MIMO_Ant2_5190

11AC40MIMO_Ant4_5190

11AC40MIMO_Ant2_5230

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11AC40MIMO_Ant4_5230

11AC40MIMO_Ant2_5755

11AC40MIMO_Ant4_5755

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11AC40MIMO_Ant2_5795

11AC40MIMO_Ant4_5795

11AC80MIMO_Ant2_5210

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