

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

TEST REPORT

For

KAON AP GATEWAY

MODEL NUMBER: AR1840, EVO1840AP

REPORT NUMBER: 4790724057-RF-2

ISSUE DATE: April 27, 2023

FCC ID: 2AXCW-AP1840

IC: 28198-AP1840

Prepared for

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 30, 2023	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
On Time and Duty Cycle	ANSI C63.10-2013, Clause 12.2	None; for reporting purposes only.	Pass
6dB/26dB 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 Section 6.8	FCC 15.407 (g)	Pass
Dynamic Frequency Selection	KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02	FCC Part 15.407 (h), RSS-247 Issue 2 Clause 6.3	Pass
Antenna Requirement	/	FCC 47 CFR Part 15.203/ 15.407(a)(1) (2), RSS-Gen Issue 5, Clause 6.8	Pass

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

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART E and ISSED RSS-247 ISSUE 2> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Kaonbroadband CO., LTD.
Address: 884-3, Seongnam-daero, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

Manufacturer Information

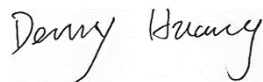
Company Name: Kaonbroadband CO., LTD.
Address: 884-3, Seongnam-daero, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

EUT Information

EUT Name: KAON AP GATEWAY
Model: AR1840
Serial Model: EVO1840AP
Model Difference: Please refer the clause 5.1 DESCRIPTION OF EUT
Sample Received Date: February 7, 2023
Sample Status: Normal
Sample ID: 5739139
Date of Tested: February 13, 2023 to April 27, 2023


APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART E	PASS
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 ISSED RSS-247 ISSUE 2, ANSI C63.10-2013, CFR 47 FCC Part 2, CFR 47 FCC Part 15, KDB 789033 D02 v02r01, RSS-GEN Issue 5, RSS-247 Issue 2, 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 and KDB 905462 D06 802 11 Channel Plans New Rules v02.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p>VCCI (Registration No.: G-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.</p> <p>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</p>
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Note 1:

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

Note 2:

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

Note 3:

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 26 GHz)	5.78 dB (1 GHz ~ 18 GHz)
	5.23 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
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

Equipment	KAON AP GATEWAY
Model:	AR1840
Serial Model:	EVO1840AP
Model Difference:	<p>The PCB is for common use, and 2 types of Tact keys (removed WPS, Reset Button) and 1 LED SILK device (replacing WPS LED with BT LED) are different.</p> <p>1. AR1840(Basic) – There are WPS, Reset Button / There is WPS LED</p> <p>2. EVO1840AP(Derivative) – There are no WPS, Reset Button / There is BT LED.</p> <p>All RF circuits and parameter are the same, we selected AR1840 for RF tested, the differences above were evaluated in FCC Part 15B.</p>
Radio Technology	WLAN (IEEE 802.11a 20/n HT20/n HT40/ac VHT20/ac VHT40/ac VHT 80/ac VHT 160/ax HE20/ax HE40/ax HE80/ax HE160)
Modulation	<p>IEEE 802.11a 20: OFDM (64QAM, 16QAM, QPSK, BPSK)</p> <p>IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK)</p> <p>IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)</p> <p>IEEE 802.11ac VHT20: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)</p> <p>IEEE 802.11ac VHT40: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)</p> <p>IEEE 802.11ac VHT80: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)</p> <p>IEEE 802.11ac VHT160: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)</p> <p>IEEE 802.11ax HE20: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)</p> <p>IEEE 802.11ax HE40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)</p> <p>IEEE 802.11ax HE80: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)</p> <p>IEEE 802.11ax HE160: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)</p>
Operation Frequency	UNII-1/UNII-2A/UNII-2C/UNII-3
Power Supply	DC 12 V

5.2. MAXIMUM EIRP

UNII-1 BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)	Maximum Average EIRP (dBm)
a 20	5150 ~ 5250	12.55	14.55
n HT20		12.69	20.71
n HT40		14.74	22.77
ac VHT80		14.22	22.24
ac VHT160		14.32	22.34
ax HE20		13.27	21.29
ax HE40		14.65	22.67
ax HE80		14.76	22.78
ax HE160		14.62	22.64

UNII-2A BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a 20	5250 ~ 5350	19.29
n HT20		19.77
n HT40		21.64
ac VHT80		21.09
ac VHT160		12.77
ax HE20		20.01
ax HE40		21.41
ax HE80		21.62
ax HE160		14.10

UNII-2C BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a 20	5470 ~ 5725	19.25
n HT20		19.86
n HT40		21.86
ac VHT80		21.82
ac VHT160		19.92
ax HE20		20.24
ax HE40		21.82
ax HE80		21.86
ax HE160		18.19

UNII-3 BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a 20	5725 ~ 5850	19.64
n HT20		19.52
n HT40		26.13
ac VHT80		26.42
ax HE20		19.51
ax HE40		20.92
ax HE80		24.51

5.3. CHANNEL LIST

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

UNII-1 (For Bandwidth=160 MHz)	
Channel	Frequency (MHz)
50	5250

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

UNII-2C (For Bandwidth=20 MHz)		UNII-2C (For Bandwidth=40 MHz)		UNII-2C (For Bandwidth=80 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

UNII-2C (For Bandwidth=160 MHz)	
Channel	Frequency (MHz)
114	5570

UNII-3 (For Bandwidth=20 MHz)		UNII-3 (For Bandwidth=40 MHz)		UNII-3 (For Bandwidth=80 MHz)	
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				

Note: All channels in the 5600-5650MHz band were not operational in Canada.

5.4. TEST CHANNEL CONFIGURATION

UNII-1 Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a 20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11n HT20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11n HT40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz
802.11ac VHT80	CH 42(Low Channel)	5210 MHz
802.11ac VHT160	CH 50(Low Channel)	5250 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
802.11ax HE160	CH 50(Low Channel)	5250 MHz

UNII-2A Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a 20	CH 52(Low Channel), CH 56(MID Channel), CH 64(High Channel)	5260 MHz, 5280 MHz, 5320 MHz
802.11n HT20	CH 52(Low Channel), CH 56(MID Channel), CH 64(High Channel)	5260 MHz, 5280 MHz, 5320 MHz
802.11n HT40	CH 54(Low Channel), CH 62(High Channel)	5270 MHz, 5310 MHz
802.11ac VHT80	CH 58(Low Channel)	5290 MHz
802.11ax HE20	CH 52(Low Channel), CH 56(MID Channel), CH 64(High Channel)	5260 MHz, 5280 MHz, 5320 MHz
802.11ax HE40	CH 54(Low Channel), CH 62(High Channel)	5270 MHz, 5310 MHz
802.11ax HE80	CH 58(Low Channel)	5290 MHz

UNII-2C Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a 20	CH 100(Low Channel), CH 116(MID Channel), CH 140(High Channel)	5500 MHz, 5580 MHz, 5700 MHz
802.11n HT20	CH 100(Low Channel), CH 116(MID Channel), CH 140(High Channel)	5500 MHz, 5580 MHz, 5700 MHz
802.11n HT40	CH 102(Low Channel), CH 110(MID Channel), CH 134(High Channel)	5510 MHz, 5550 MHz, 5670 MHz
802.11ac VHT80	CH 102(Low Channel), CH 122(High Channel)	5530 MHz, 5610 MHz
802.11ac VHT160	CH 114(Low Channel)	5570 MHz
802.11ax HE20	CH 100(Low Channel), CH 116(MID Channel), CH 140(High Channel)	5500 MHz, 5580 MHz, 5700 MHz
802.11ax HE40	CH 102(Low Channel), CH 110(MID Channel), CH 134(High Channel)	5510 MHz, 5550 MHz, 5670 MHz
802.11ax HE80	CH 102(Low Channel), CH 122(High Channel)	5530 MHz, 5610 MHz
802.11ax HE160	CH 114(Low Channel)	5570 MHz

UNII-3 Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a 20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11n HT20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11n HT40	CH 151(Low Channel), CH 159(High Channel)	5755MHz, 5795MHz
802.11ac VHT80	CH 155(Low Channel)	5775 MHz
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
802.11a 20	CH 144	5720 MHz
802.11n HT20	CH 144	5720 MHz
802.11n HT40	CH 142	5710 MHz
802.11ac VHT80	CH 138	5690 MHz
802.11ax HE20	CH 144	5720 MHz
802.11ax HE40	CH 142	5710 MHz
802.11ax HE80	CH 138	5690 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter						
Test Software	accessMTool					
UNII-1						
IEEE Std.	Rate	Channel	Soft set value			
			ANT 1	ANT 2	ANT 3	ANT 4
802.11a 20	6M	36	33	33	33	33
		40	33	33	33	33
		48	30	30	30	30
802.11n HT20	MCS0	36	35	35	35	35
		40	30	30	30	30
		48	30	30	30	30
802.11n HT40	MCS0	38	40	40	40	40
		46	40	40	40	40
802.11ac VHT20	MCS0	36	Cover by 802.11n HT20			
		40				
		48				
802.11ac VHT40	MCS0	38	Cover by 802.11n HT40			
		46				
802.11ac VHT80	MCS0	42	57	57	57	57
802.11ac VHT160	MCS0	50	53	53	53	53
802.11ax HE20	MCS0	36	40	40	40	40
		40	38	38	38	38
		48	37	37	37	37
802.11ax HE40	MCS0	38	42	42	42	42
		46	40	40	40	40
802.11ax HE80	MCS0	42	40	40	40	40
802.11ax HE160	MCS0	50	53	53	53	53

UNII-2A

IEEE Std.	Rate	Channel	Soft set value			
			ANT 1	ANT 2	ANT 3	ANT 4
802.11a 20	6M	52	60	60	60	60
		56	57	57	57	57
		64	58	58	58	58
802.11n HT20	MCS0	52	60	60	60	60
		56	60	60	60	60
		64	60	60	60	60
802.11n HT40	MCS0	54	70	70	70	70
		62	70	70	70	70
802.11ac VHT20	MCS0	52	Cover by 802.11n HT20			
		56				
		64				
802.11ac VHT40	MCS0	54	Cover by 802.11n HT40			
		62				
802.11ac VHT80	MCS0	58	70	70	70	70
802.11ax HE20	MCS0	52	65	65	65	65
		56	65	65	65	65
		64	65	65	65	65
802.11ax HE40	MCS0	54	70	70	70	70
		62	70	70	70	70
802.11ax HE80	MCS0	58	70	70	70	70

UNII-2C

IEEE Std.	Rate	Channel	Soft set value			
			ANT 1	ANT 2	ANT 3	ANT 4
802.11a 20	6M	100	60	60	60	60
		116	60	60	60	60
		140	58	58	58	58
		144	58	58	58	58
802.11n HT20	MCS0	100	63	63	63	63
		116	61	61	61	61
		140	61	61	61	61
		144	61	61	61	61
802.11n HT40	MCS0	102	75	75	75	75
		118	75	75	75	75
		134	70	70	70	70
		142	70	70	70	70
802.11ac VHT20	MCS0	100	Cover by 802.11n HT20			
		116				
		140				
		144				
802.11ac VHT40	MCS0	102	Cover by 802.11n HT40			
		118				
		134				
		142				
802.11ac VHT80	MCS0	106	75	75	75	75
		122	75	75	75	75
		138	75	75	75	75
802.11ac VHT160	MCS0	114	64	64	64	64
802.11ax HE20	MCS0	100	68	68	68	68
		116	68	68	68	68
		140	64	64	64	64
		144	64	64	64	64
802.11ax HE40	MCS0	102	75	75	75	75
		118	75	75	75	75
		134	70	70	70	70
		142	70	70	70	70
802.11ax HE80	MCS0	106	73	73	73	73
		122	73	73	73	73
		138	73	73	73	73
802.11ax HE160	MCS0	114	63	63	63	63

UNII-3

IEEE Std.	Rate	Channel	Soft set value			
			ANT 1	ANT 2	ANT 3	ANT 4
11a 20	6M	149	80	80	80	80
		157	80	80	80	80
		165	80	80	80	80
11n HT20	MCS0	149	81	81	81	81
		157	81	81	81	81
		165	81	81	81	81
11n HT40	MCS0	151	88	88	88	88
		159	88	88	88	88
11ac VHT20	MCS0	149	Cover by 802.11n HT20			
		157				
		165				
11ac VHT40	MCS0	151	Cover by 802.11n HT40			
		159				
11ac VHT80	MCS0	155	92	92	92	92
11ax HE20	MCS0	149	65	65	65	65
		157	65	65	65	65
		165	65	65	65	65
11ax HE40	MCS0	151	73	73	73	73
		159	73	73	73	73
11ax HE80	MCS0	155	63	63	63	63

5.6. THE 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:

- IEEE 802.11a / CDD – BPSK / 6 Mbps
- IEEE 802.11n HT20 / CDD / TxBF – BPSK / MCS0
- IEEE 802.11n HT40 / CDD / TxBF – BPSK / MCS0
- IEEE 802.11ac VHT80 / CDD / TxBF – BPSK / MCS0
- IEEE 802.11ax HE20 / CDD / TxBF – BPSK / MCS0
- IEEE 802.11ax HE40 / CDD / TxBF – BPSK / MCS0
- IEEE 802.11ax HE80 / TxBF – BPSK / MCS0
- IEEE 802.11ax HE160 / CDD / TxBF – BPSK / MCS0

The EUT support CDD and TxBF (Tx Beamforming) modes, all the modes had been tested, but only the worst data was recorded in the report.

The EUT has 4 separate antennas which correspond to 4 separate antenna ports. Core 1 to Core 4 correspond to antenna 1 to antenna 4 respectively.

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

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

The mesh mode only worked as a slave.

Radiated emissions tests were performed with the worst case modes. These were found to be the worst modulation scheme with regards to emissions after preliminary investigations and, as this mode emits the highest conducted output power level, it was deemed to be the worst case.

The 5 GHz beamforming function is enabled by test program, the carrier wave will be under radio chip phase control and sent to the antennas through the test program.

5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna No.	Frequency Band	Antenna Type	Maximum Antenna Gain (dBi)
1	5180 ~ 5825	Dipole	2
2	5180 ~ 5825	Dipole	2
3	5180 ~ 5825	Dipole	2
4	5180 ~ 5825	Dipole	2

The EUT support Cyclic Shift Diversity (CDD) mode.

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

For output power measurements:

Directional gain= $G_{ANT} + \text{Array Gain} = 2 \text{ dBi}$

G_{ANT} : equal to the gain of the antenna having the highest gain

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$

For power spectral density (PSD) measurements:

Directional gain= $G_{ANT} + \text{Array Gain} = 8.02 \text{ dBi}$

Array Gain = $10 \log (N_{ANT}/N_{SS}) \text{ dB}$.

N_{ANT} : number of transmit antennas

N_{SS} : number of spatial streams, the worst case directional gain will occur when $N_{SS} = 1$

The EUT support Tx beamforming mode.

MIMO output power port and MIMO PSD port summing was performed in accordance with KDB 662911 D01. For the Tx beamforming mode results the Directional Gain was calculated in accordance with the following method.

For output power measurements:

Directional gain= $G_{ANT} + 10 \log (N_{ANT}) \text{ dBi} = 8.02 \text{ dBi}$

G_{ANT} : equal to the gain of the antenna having the highest gain

For power spectral density (PSD) measurements:

Directional gain= $G_{ANT} + 10 \log (N_{ANT}) \text{ dBi} = 8.02 \text{ dBi}$

G_{ANT} : equal to the gain of the antenna having the highest gain

5.8. DESCRIPTION OF TEST SETUP

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	2.5G WAN	RJ45	Unshielded	1.0 m	/
2	LAN1	RJ45	Unshielded	1.0 m	/
3	LAN2	RJ45	Unshielded	1.0 m	/
4	LAN3	RJ45	Unshielded	1.0 m	/
5	DC IN	/	Unshielded	2 m	/

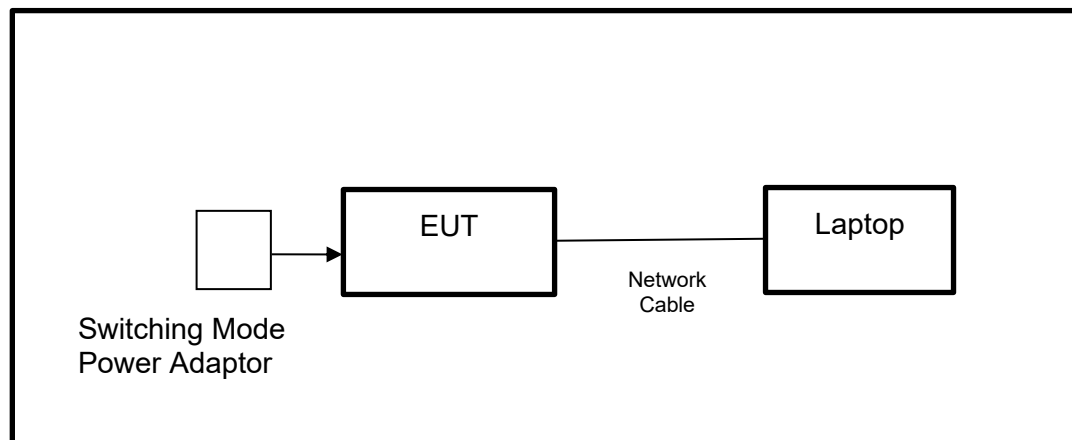
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	Switching Mode Power Adaptor	/	F24L9-120200SPKU	Input: AC 100-240 V, 50 / 60 Hz, 0.6 A Output: DC 12.0 V, 2 A, 24 W

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

Last time calibration information:

R&S TS 8997 Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Power sensor, Power Meter	R&S	OSP120	100921	Apr.02,2022	Apr.01,2023
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
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	Agilent	8495B	2814a12853	Oct.18, 2022	Oct.17, 2023
Software					
Description	Manufacturer	Name		Version	
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System		2.6.77.0518	

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
Software					
Description	Manufacturer	Name		Version	
Test Software for Conducted Emissions	Farad	EZ-EMC		Ver. UL-3A1	

This time calibration information:

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

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
Highpass Filter	Wainwright	WHKX10-5850-6500-1800-40SS	4	/	/
Band Reject Filter	Wainwright	WRCJV12-5695-5725-5850-5880-40SS	4	/	/
Band Reject Filter	Wainwright	WRCJV20-5120-5150-5350-5380-60SS	2	/	/
Band Reject Filter	Wainwright	WRCJV20-5440-5470-5725-5755-60SS	1	/	/
Thermohygro	VICTOR	VC230A	/	Feb.09, 2023	Feb.08, 2024
Software					
Description			Manufacturer	Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1

7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

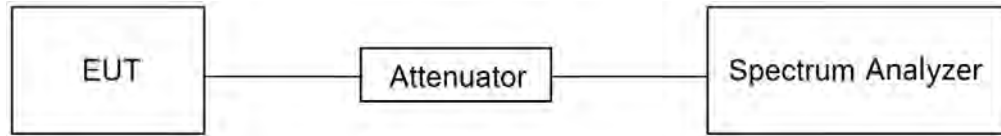
None; for reporting purposes only.

TEST PROCEDURE

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

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

TEST SETUP



TEST ENVIRONMENT

Temperature	25.3 °C	Relative Humidity	55.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix D

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 analyzer and use the following settings:

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

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

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

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 = $(5725 - (5720 - (21.00/2))) = 15.50 \text{ MHz}$

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

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

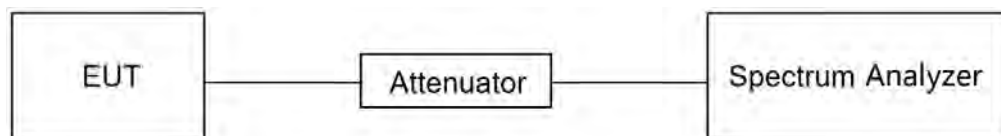
FL: 5711.76 MHz

FH: 5728.2 MHz

Turning Frequency: 5725 MHz

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

TEST SETUP



TEST ENVIRONMENT

Temperature	25.3 °C	Relative Humidity	55.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix A1 & A2 & A3

7.3. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	<input type="checkbox"/> Outdoor Access Point: 1 W (30 dBm) <input checked="" type="checkbox"/> Indoor Access Point: 1 W (30 dBm) <input type="checkbox"/> Fixed Point-To-Point Access Points: 1 W (30 dBm) <input type="checkbox"/> 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.):

- Measure the duty cycle D of the transmitter output signal.
- Set span to encompass the entire 26 dB EBW or 99% OBW of the signal.

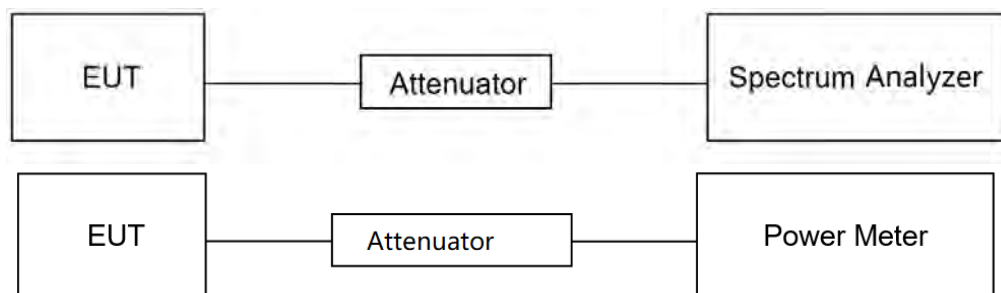
- (c) Set RBW = 1 MHz.
- (d) Set VBW \geq 3 MHz.
- (e) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- (f) Sweep time = auto.
- (g) Detector = RMS (i.e., power 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 $[10 \log (1 / 0.25)] = 6 \text{ dB}$ 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	25.3 °C	Relative Humidity	55.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.4. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	<input type="checkbox"/> Outdoor Access Point: 17 dBm/MHz <input checked="" type="checkbox"/> Indoor Access Point: 17 dBm/MHz <input type="checkbox"/> Fixed Point-To-Point Access Points: 17 dBm/MHz <input type="checkbox"/> 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 in any 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 analyzer and use the following settings:

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

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

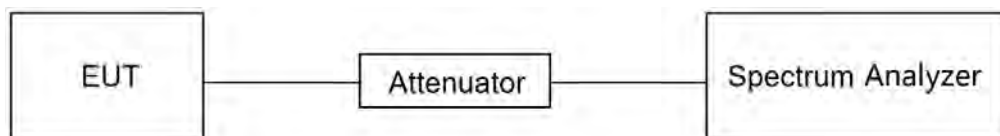
For U-NII-3:

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

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

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

TEST SETUP



TEST ENVIRONMENT

Temperature	25.3 °C	Relative Humidity	55.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix C

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 analyzer and use the following settings:

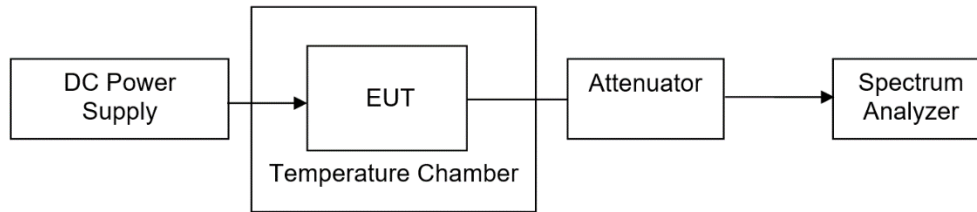
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	10 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 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): DC 12 V	V _L (Low Voltage): DC 10.20 V
		V _H (High Voltage): DC 13.80 V

TEST SETUP



TEST ENVIRONMENT

Temperature	/	Relative Humidity	55.2%
Atmosphere Pressure	101 kPa	Test Voltage	/

TEST RESULTS

Please refer to section "Test Data" - Appendix E

7.6. DYNAMIC FREQUENCY SELECTION

LIMITS

(1) DFS Detection Thresholds

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

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

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

(2) DFS Response Requirements

Table 4: DFS Response Requirement Values

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

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

APPLICABILITY OF DFS REQUIREMENTS

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

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

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

Requirement	Operational Mode		
	<input checked="" type="checkbox"/> Master	<input checked="" type="checkbox"/> Client Without Radar Detection	<input type="checkbox"/> Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	<input checked="" type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	<input checked="" type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

PARAMETERS OF RADAR TEST WAVEFORMS

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

Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A	Roundup $\left(\frac{1}{360} \right)$ $\left(\frac{19 \cdot 10^6}{PRI_{\mu sec}} \right)$	60%	30
		Test B			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					
Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a.					
Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A					

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

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Each waveform is defined as follows:

- 1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- 2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count.
- 3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- 4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly

chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.

5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a transmission period will have the same chirp width.

The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.

6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the random time interval between the first and second pulses is chosen independently of the random time interval between the second and third pulses.

7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst Count. Each interval is of length $(12,000,000 / \text{Burst Count})$ microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and $[(12,000,000 / \text{Burst Count}) - (\text{Total Burst Length}) + (\text{One Random PRI Interval})]$ microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen randomly.

A representative example of a Long Pulse Radar Type waveform:

- 1) The total test waveform length is 12 seconds.
- 2) Eight (8) Bursts are randomly generated for the Burst Count.
- 3) Burst 1 has 2 randomly generated pulses.
- 4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- 5) The PRI is randomly selected to be at 1213 microseconds.
- 6) Bursts 2 through 8 are generated using steps 3 – 5.
- 7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).

Figure 1 provides a graphical representation of the Long Pulse Radar Test Waveform.

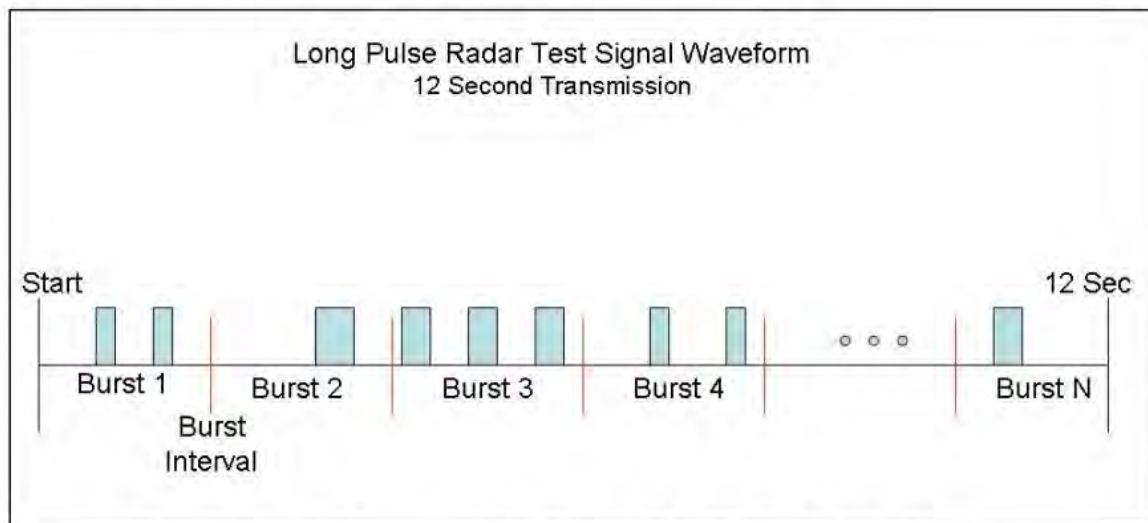


Figure 1: Graphical Representation of a Long Pulse Radar Type Waveform

Table 7 – Frequency Hopping Radar Test Waveform

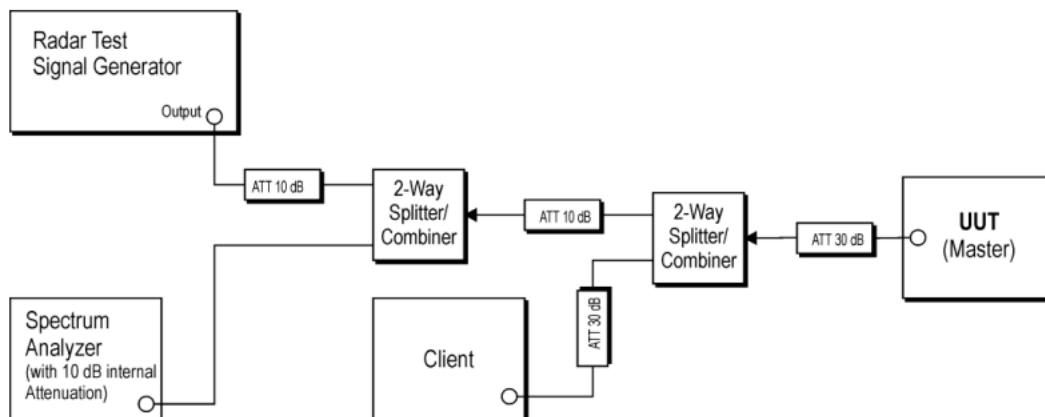
Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm: 4

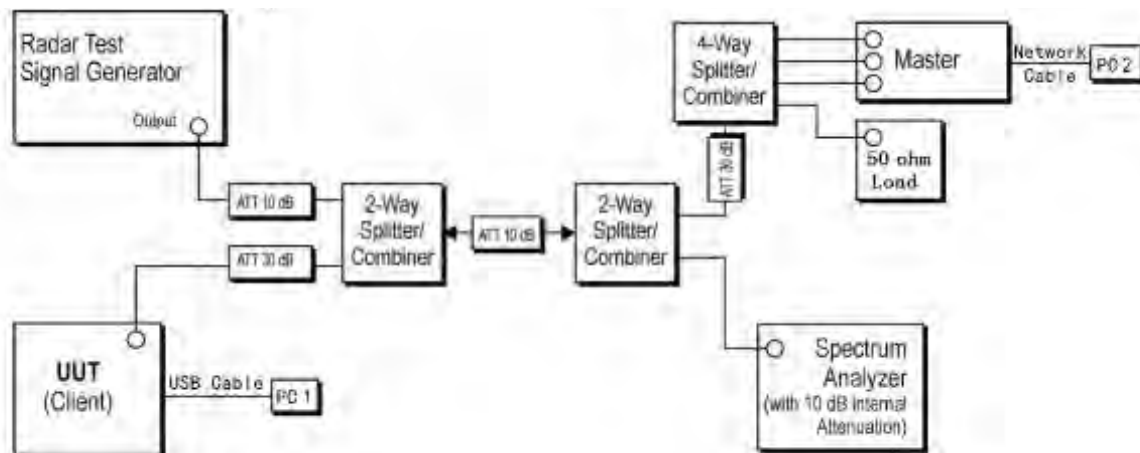
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

TEST SETUP

Setup for Master



Setup for Client with injection at the Master



TEST ENVIRONMENT

Temperature	25.3 °C	Relative Humidity	55.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix F

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

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	
16.80475 - 16.80525	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: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

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

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

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

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

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

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

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

Above 1 GHz

The setting of the spectrum analyzer

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

1. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

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

For Restricted Bandedge:

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. 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. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.
9. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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

Note:

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

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

Note:

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

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

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -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 (7 GHz ~ 18 GHz):

Note:

1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -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 (18 GHz ~ 26 GHz):

Note:

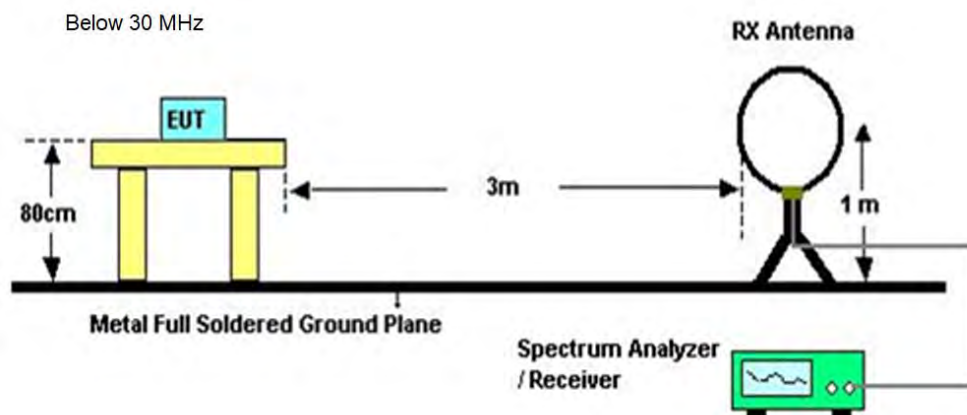
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

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

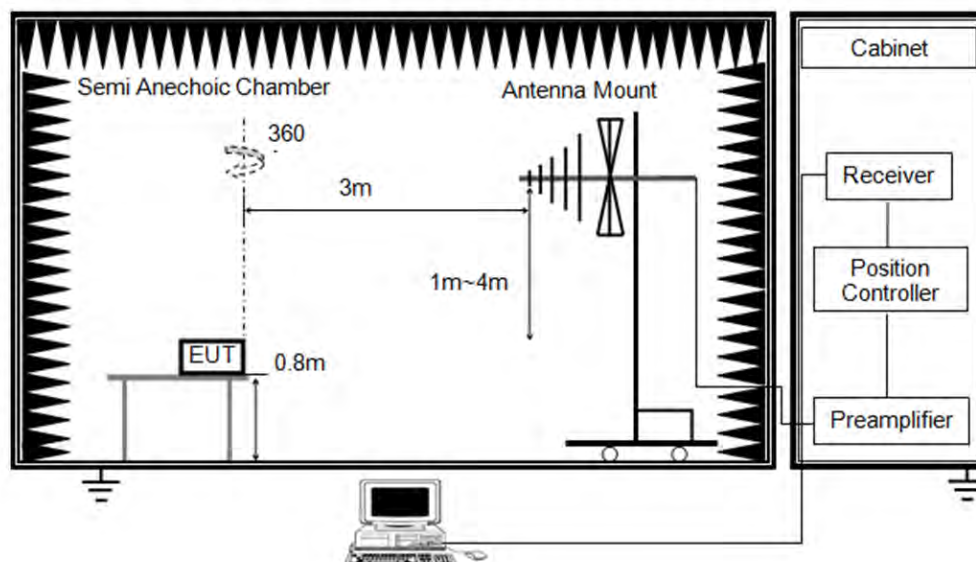
Note:

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

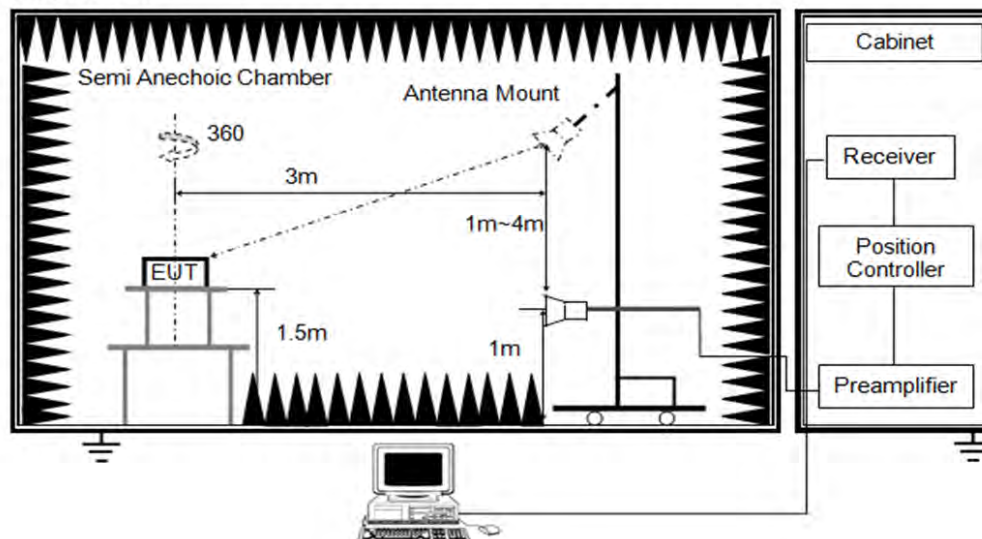
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



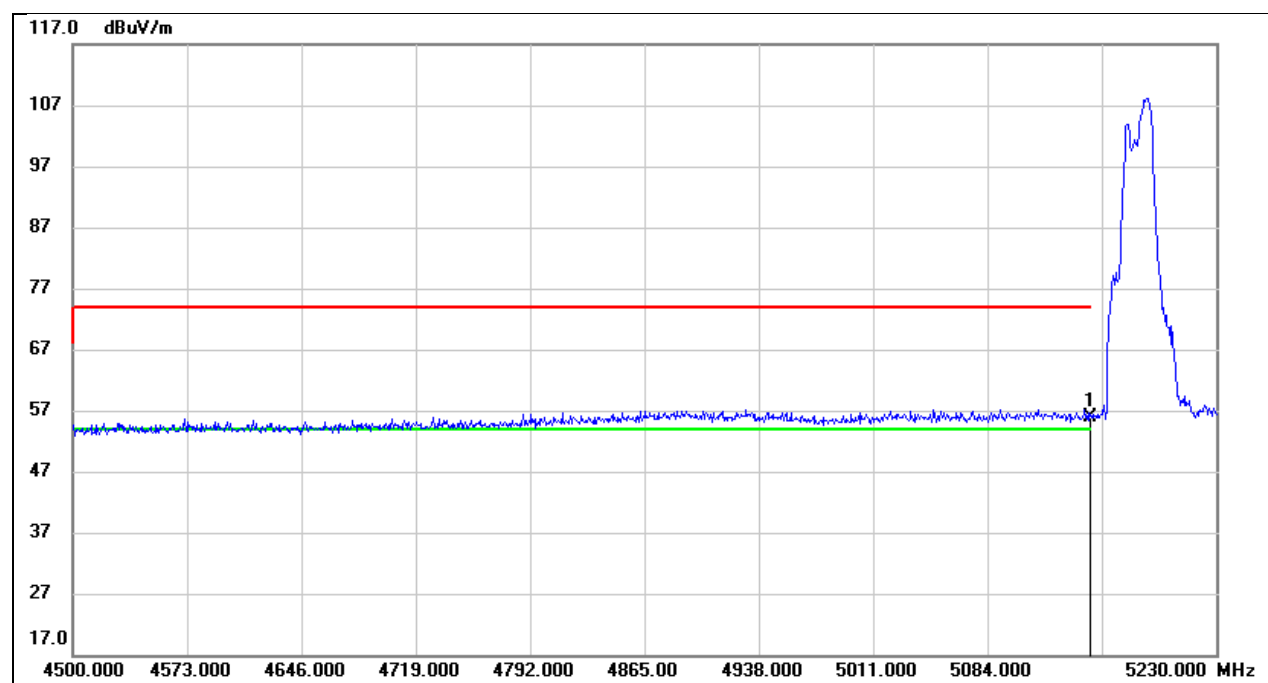
TEST ENVIRONMENT

Temperature	24.5 °C	Relative Humidity	52%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

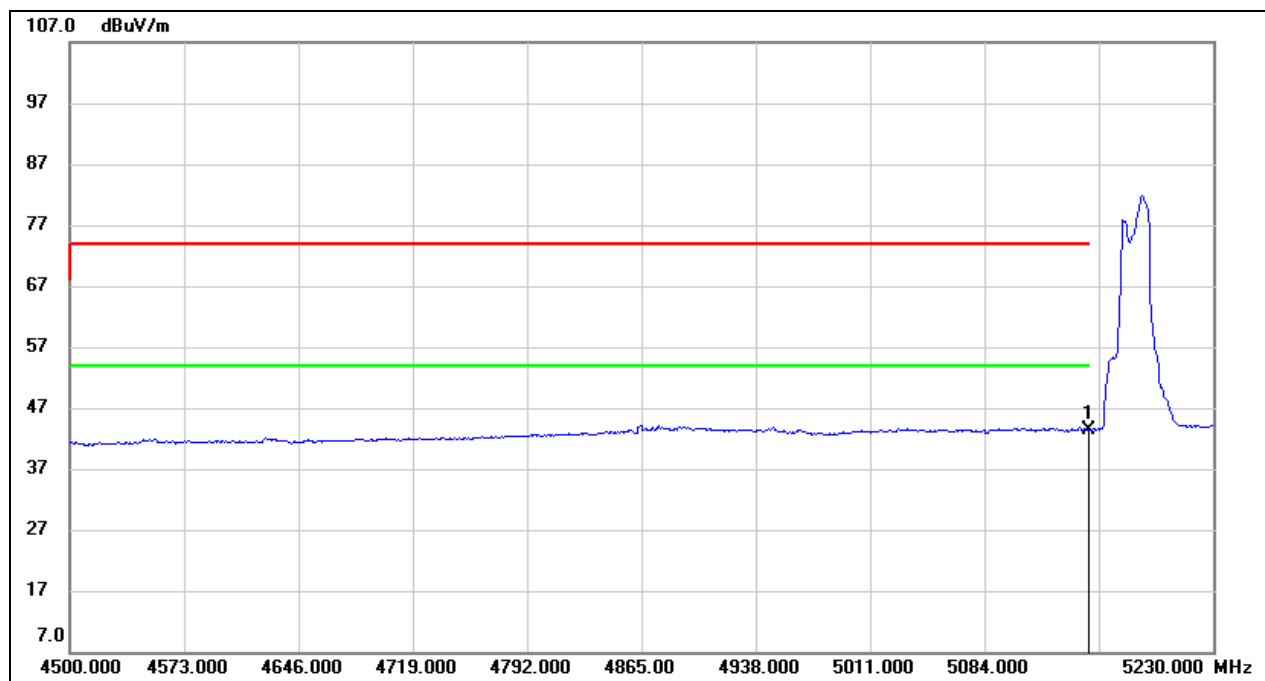
8.1. RESTRICTED BANDEDGE

Test Mode:	802.11a 20 Peak	Channel:	5180 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



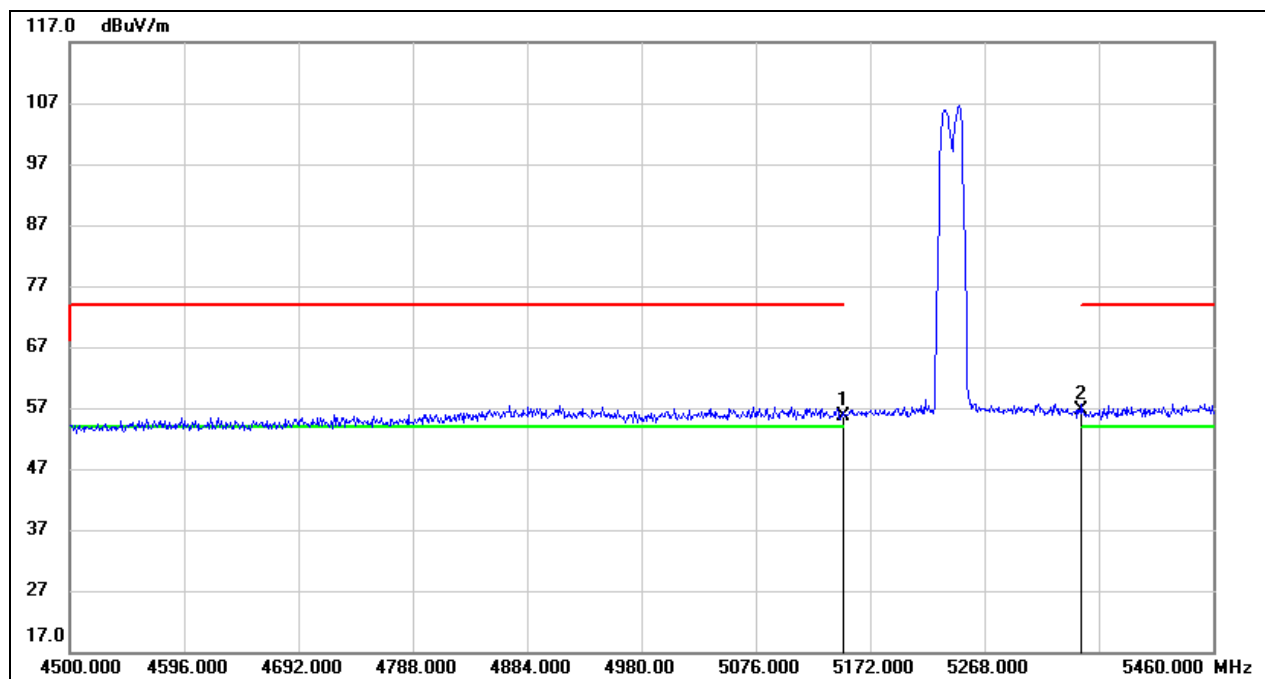
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.68	40.27	55.95	74.00	-18.05	peak

Test Mode:	802.11a 20 Average	Channel:	5180 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



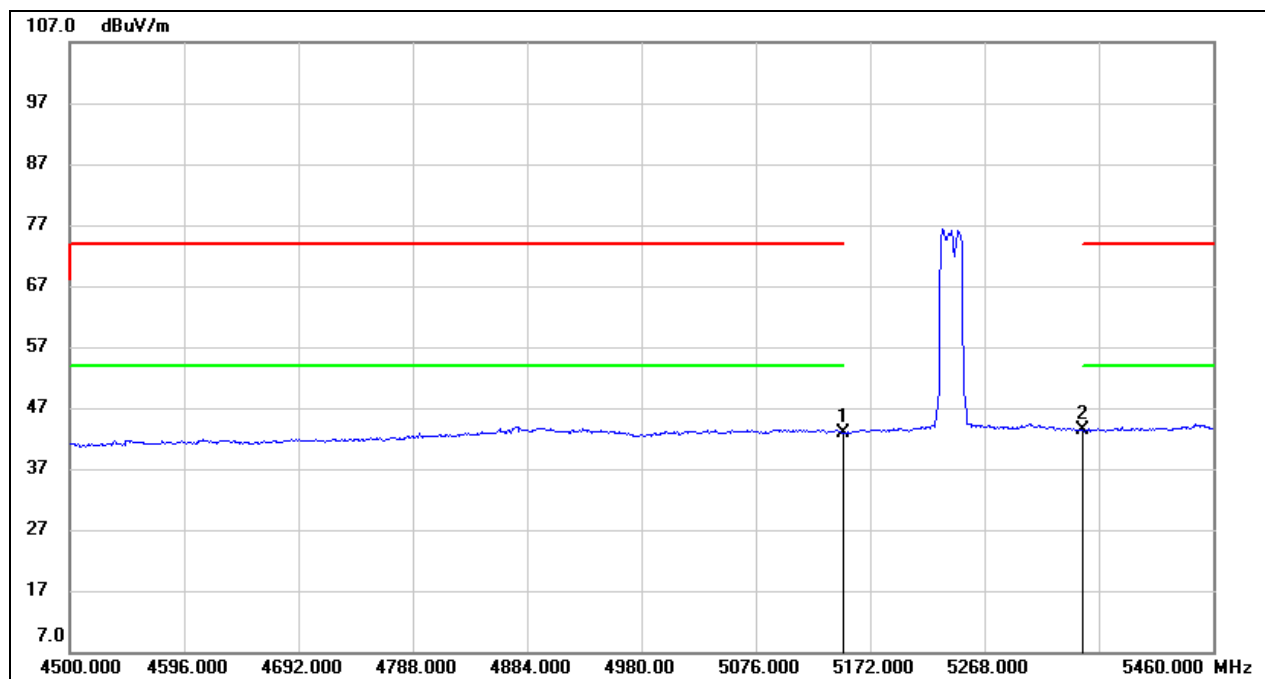
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.21	40.27	43.48	54.00	-10.52	AVG

Test Mode:	802.11a 20 Peak	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



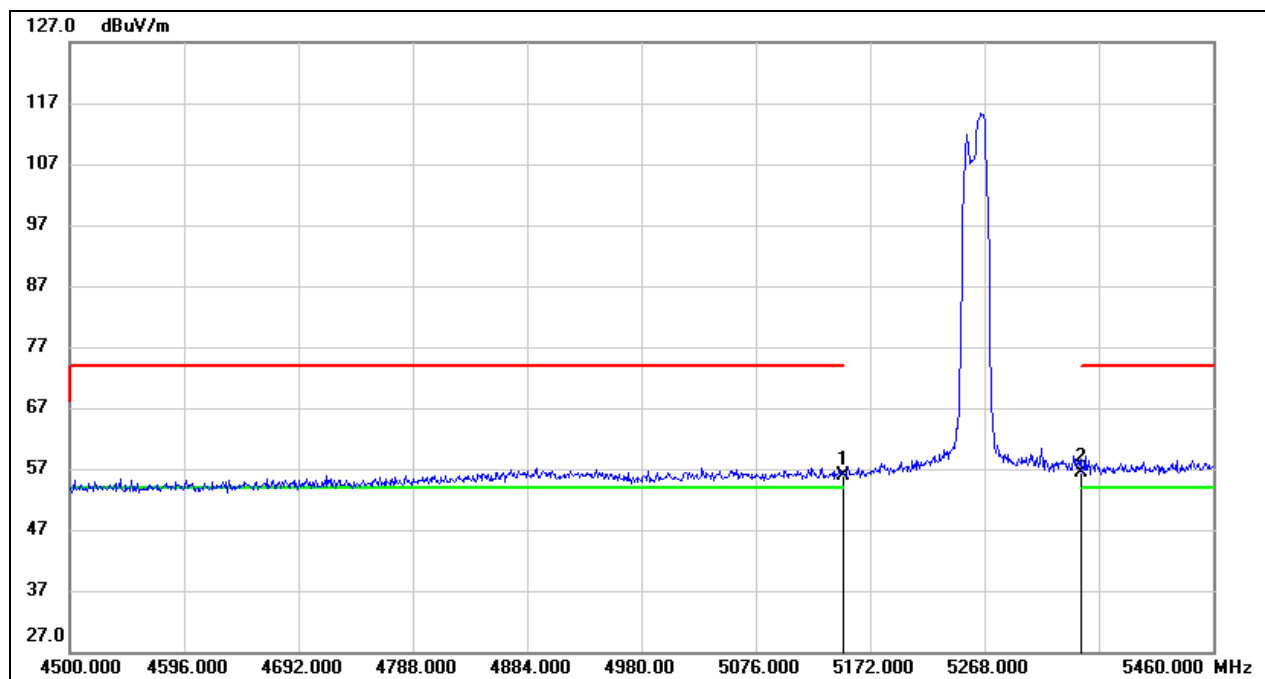
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.47	40.27	55.74	74.00	-18.26	peak
2	5350.000	16.11	40.49	56.60	74.00	-17.40	peak

Test Mode:	802.11a 20 Average	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



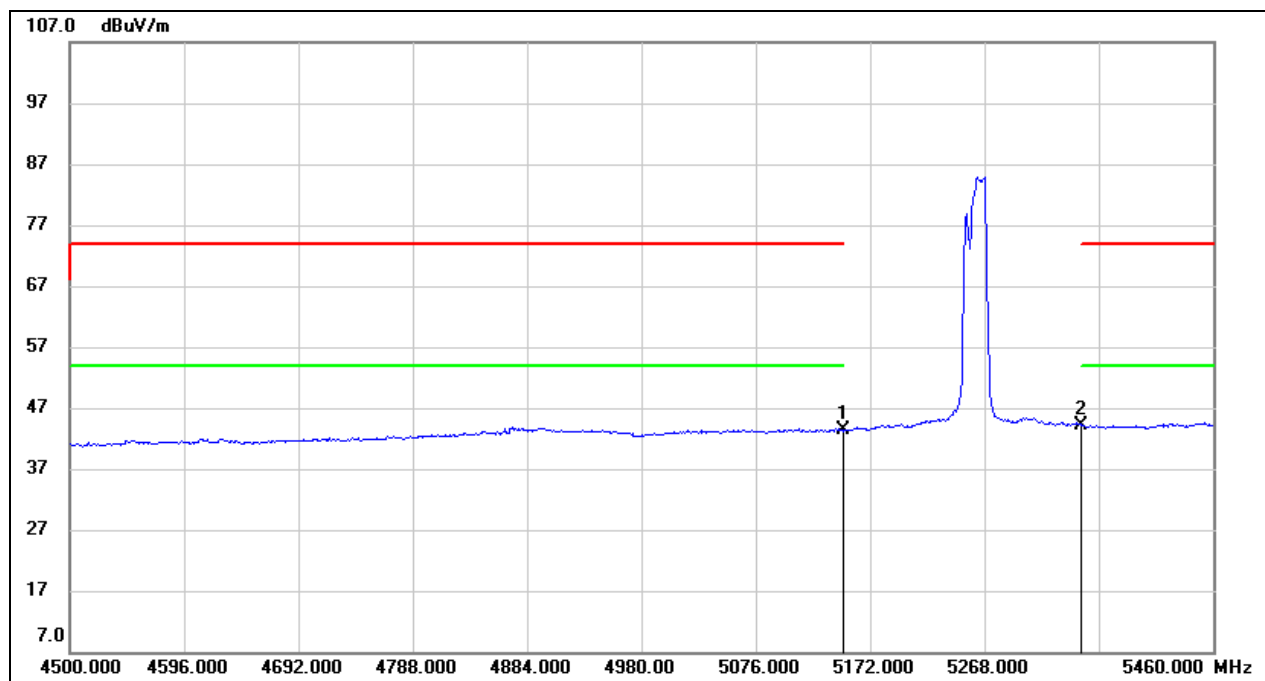
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	2.68	40.27	42.95	54.00	-11.05	AVG
2	5350.000	2.83	40.49	43.32	54.00	-10.68	AVG

Test Mode:	802.11a 20 Peak	Channel:	5260 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



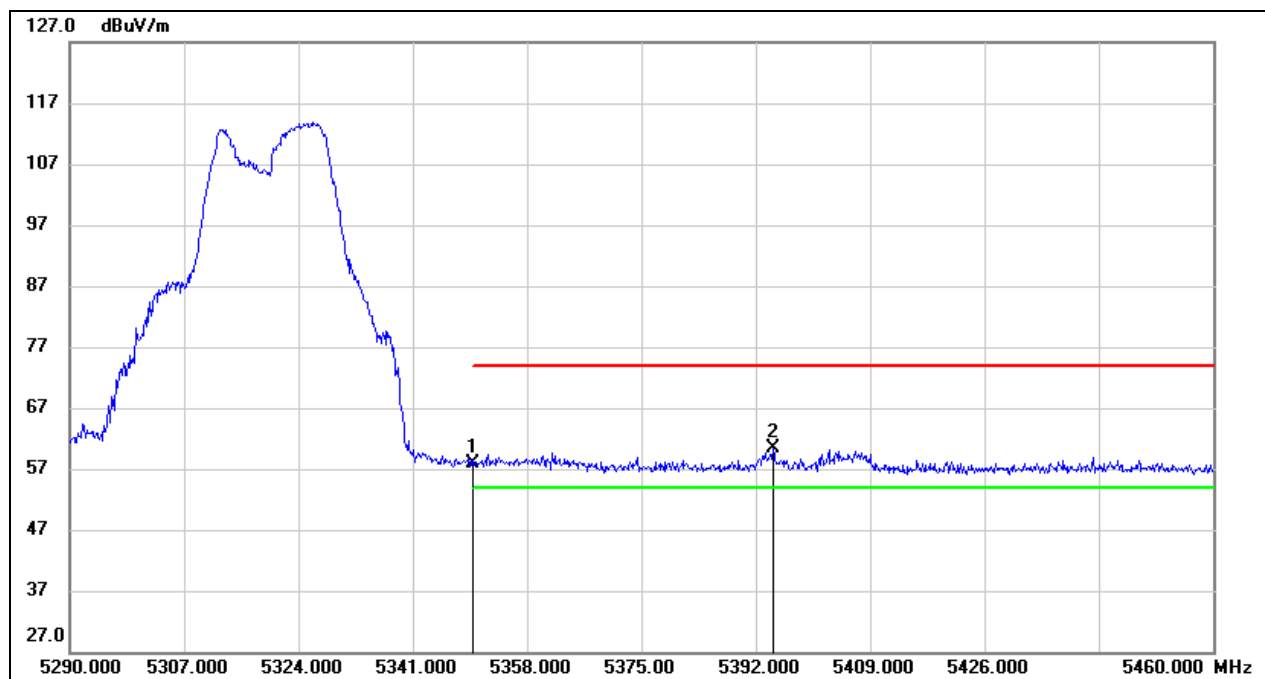
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.63	40.27	55.90	74.00	-18.10	peak
2	5350.000	15.92	40.49	56.41	74.00	-17.59	peak

Test Mode:	802.11a 20 Average	Channel:	5260 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



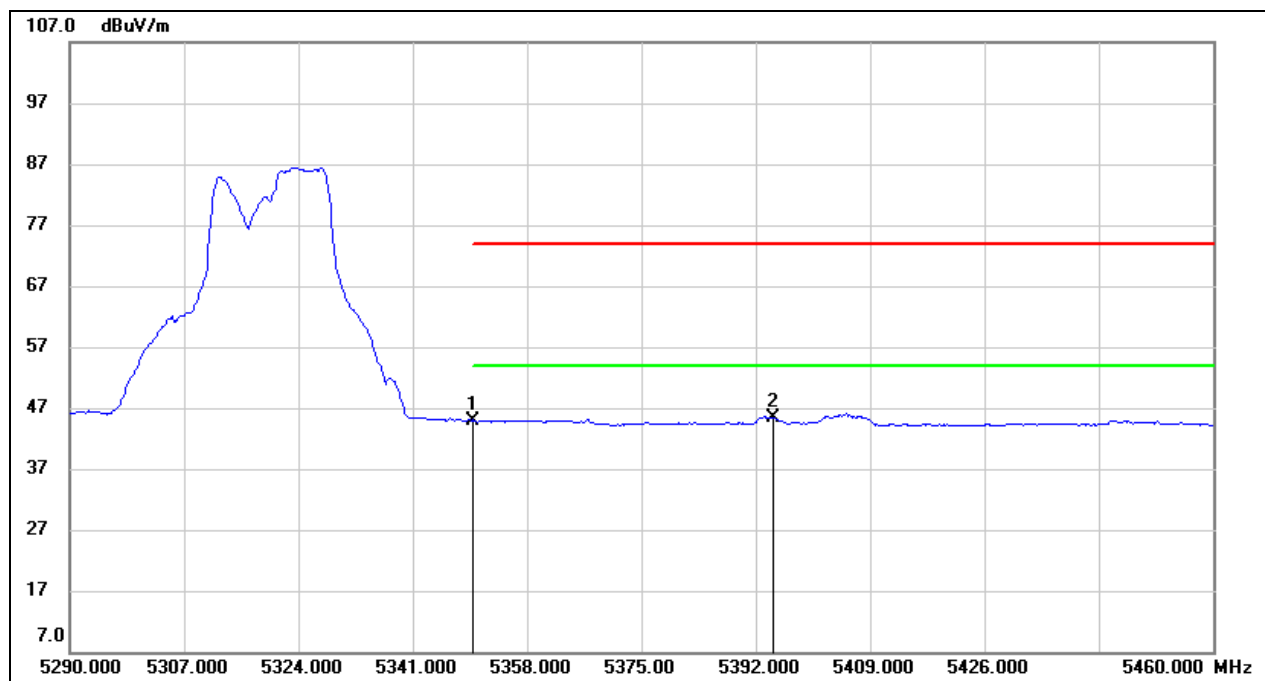
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.01	40.27	43.28	54.00	-10.72	AVG
2	5350.000	3.61	40.49	44.10	54.00	-9.90	AVG

Test Mode:	802.11a 20 Peak	Channel:	5320 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



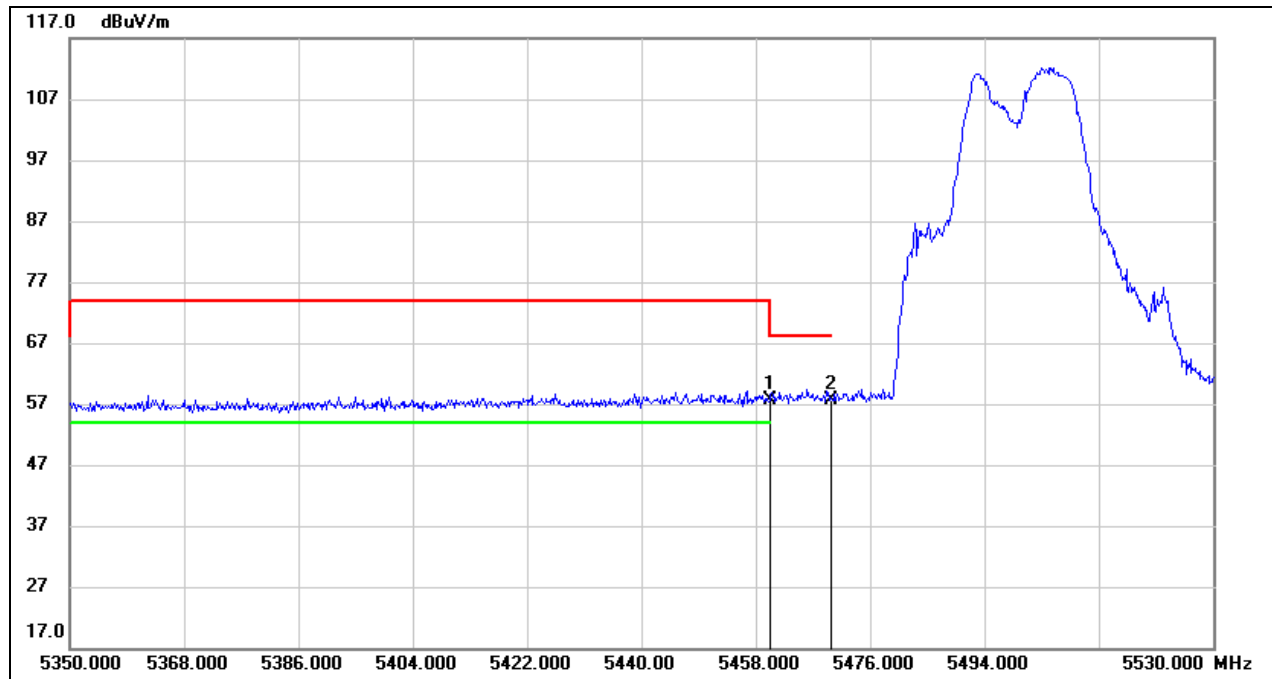
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	17.50	40.49	57.99	74.00	-16.01	peak
2	5394.550	19.91	40.54	60.45	74.00	-13.55	peak

Test Mode:	802.11a 20 Average	Channel:	5320 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



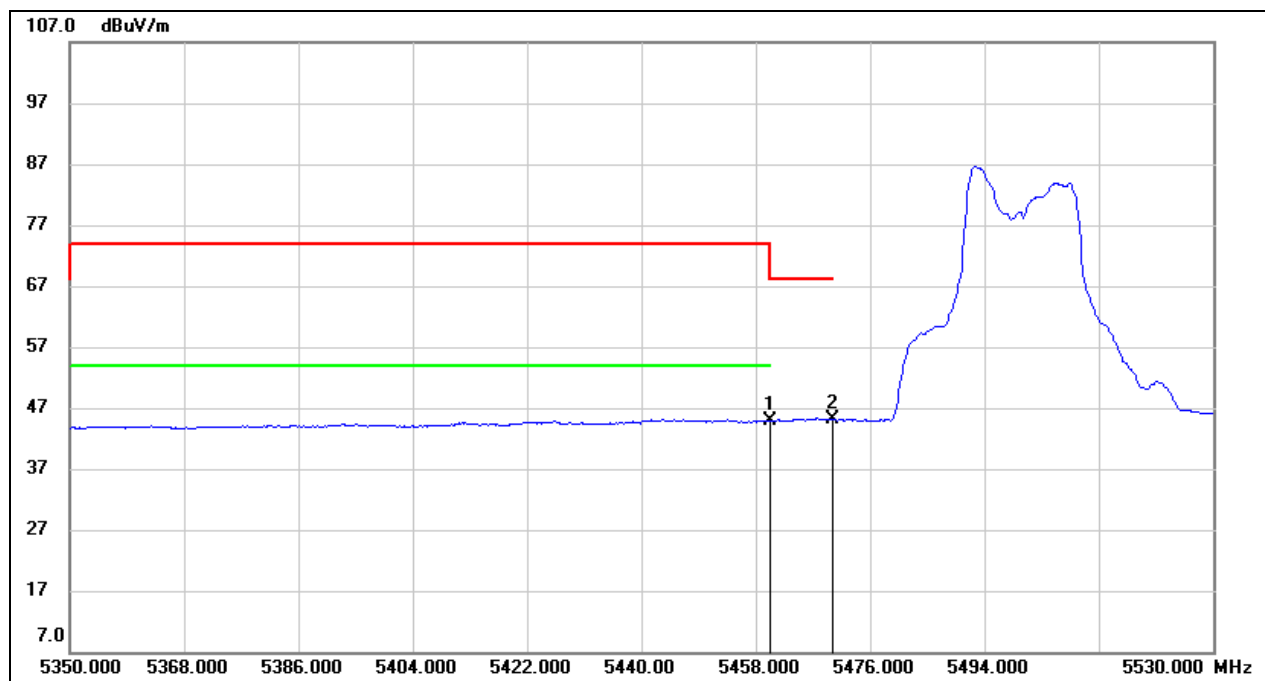
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	4.47	40.49	44.96	54.00	-9.04	AVG
2	5394.550	4.83	40.54	45.37	54.00	-8.63	AVG

Test Mode:	802.11a 20 Peak	Channel:	5500 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



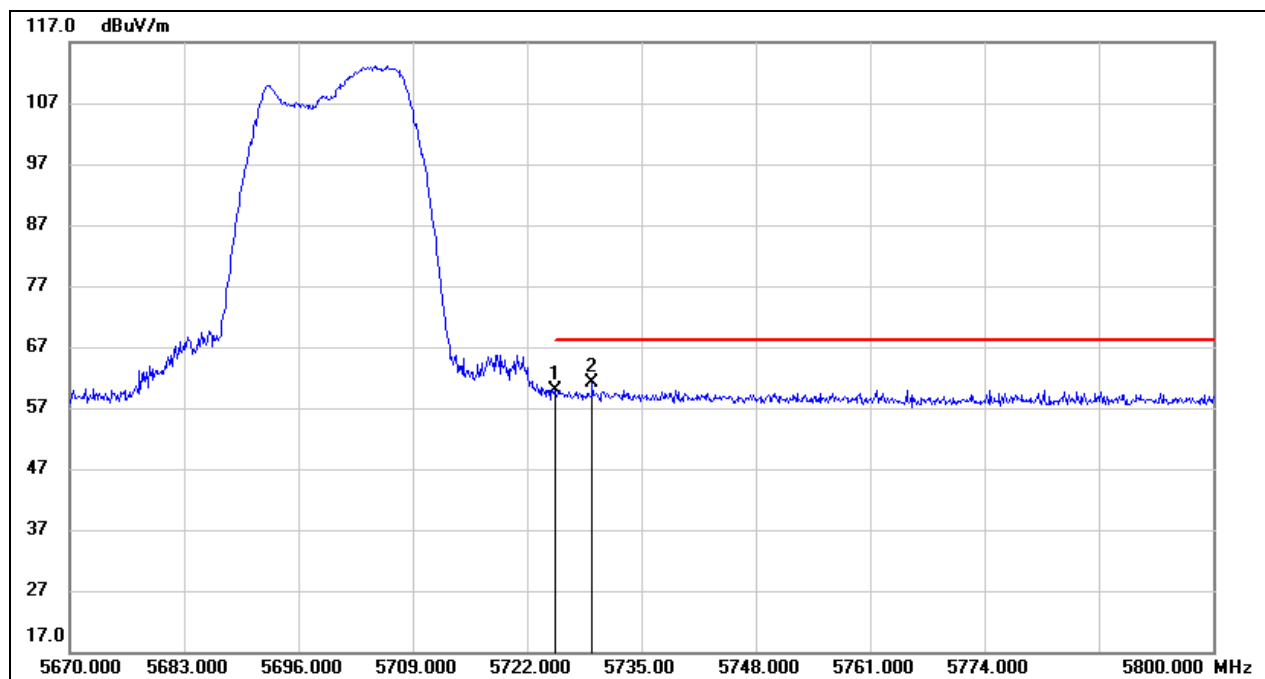
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	17.06	40.62	57.68	68.20	-10.52	peak
2	5470.000	16.89	40.63	57.52	68.20	-10.68	peak

Test Mode:	802.11a 20 Average	Channel:	5500 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



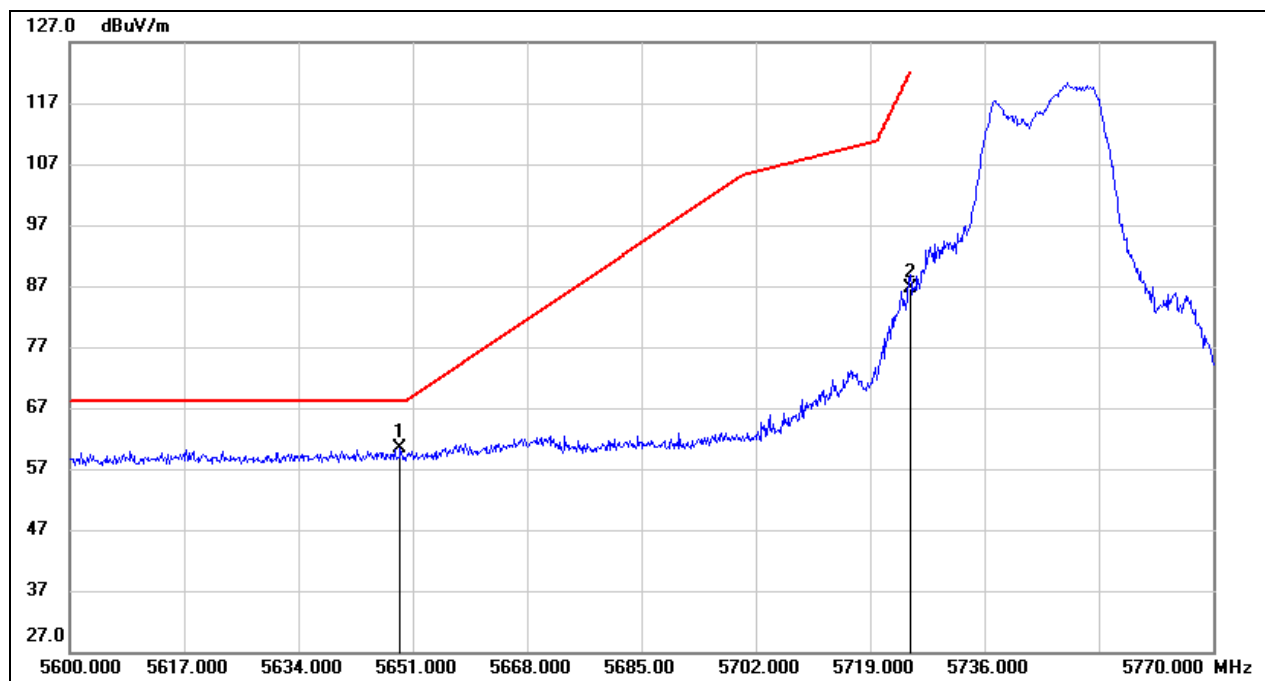
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	4.36	40.62	44.98	54.00	-9.02	AVG
2	5470.000	4.48	40.63	45.11	/	/	AVG

Test Mode:	802.11a 20 Peak	Channel:	5700 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



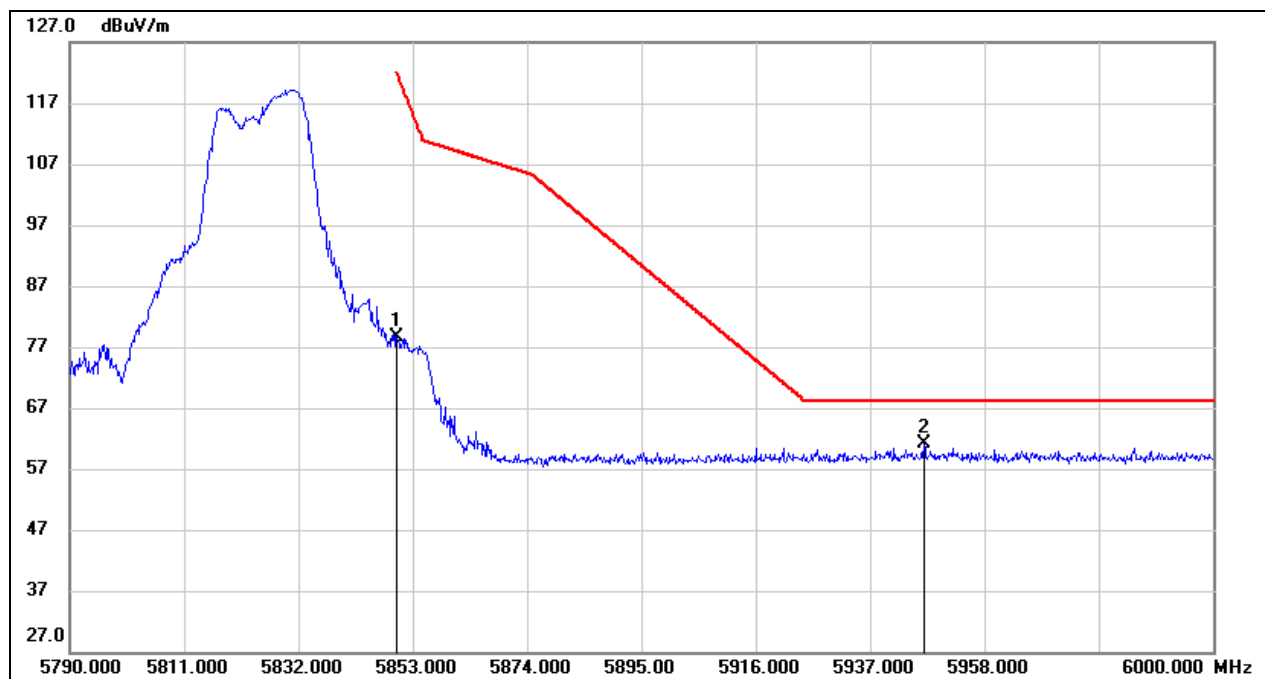
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	18.65	41.27	59.92	68.20	-8.28	peak
2	5729.410	19.78	41.28	61.06	68.20	-7.14	peak

Test Mode:	802.11a 20 Peak	Channel:	5745 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



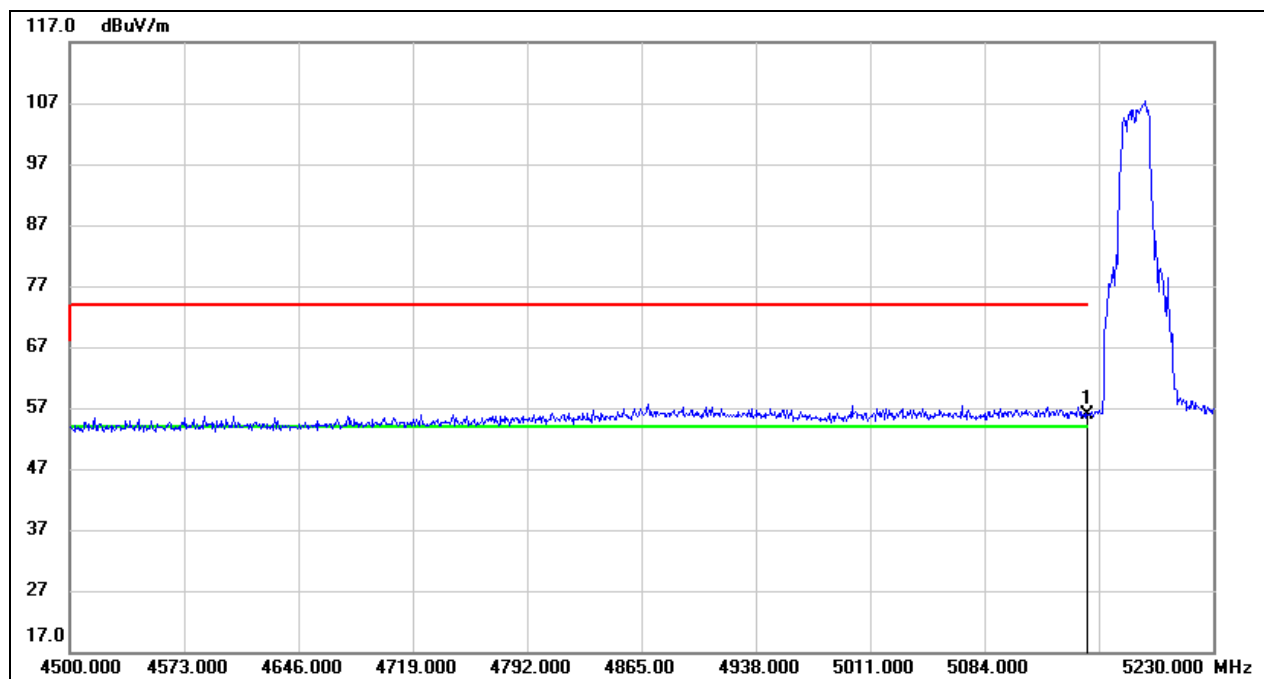
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5649.130	19.34	41.06	60.40	68.20	-7.80	peak
2	5725.000	45.25	41.27	86.52	122.20	-35.68	peak

Test Mode:	802.11a 20 Peak	Channel:	5825 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



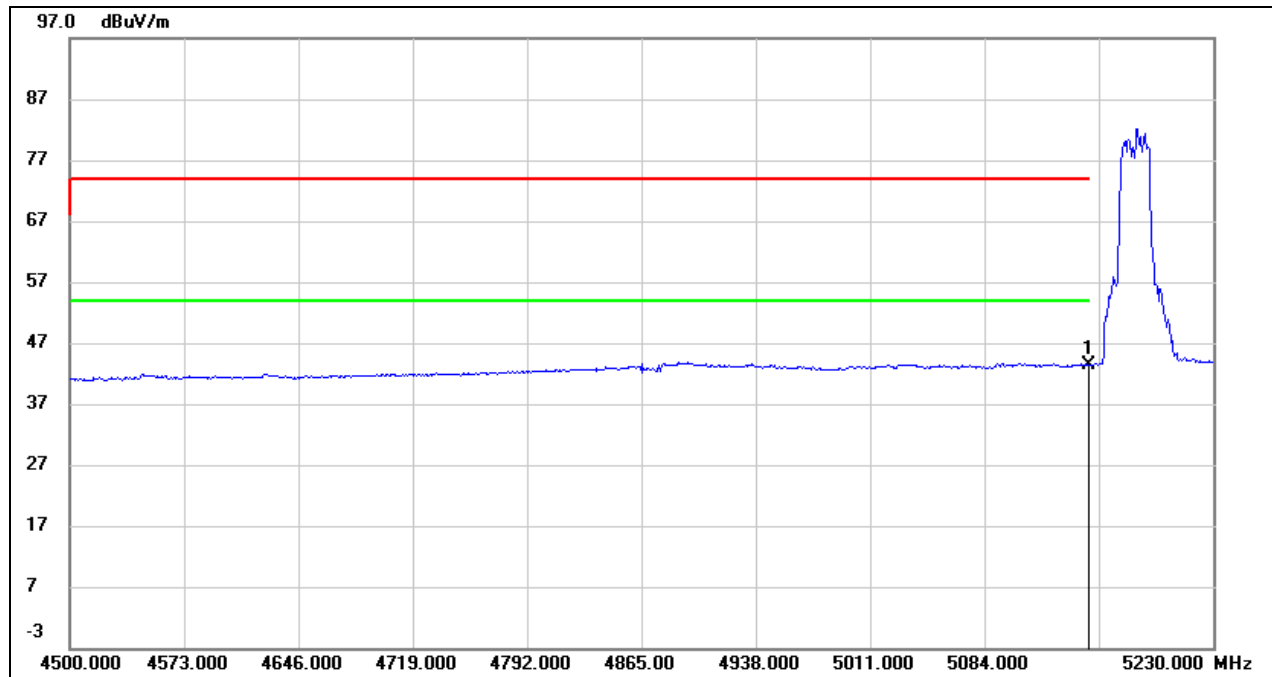
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	37.03	41.60	78.63	122.20	-43.57	peak
2	5946.870	19.29	41.86	61.15	68.20	-7.05	peak

Test Mode:	802.11n HT20 Peak	Channel:	5180 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



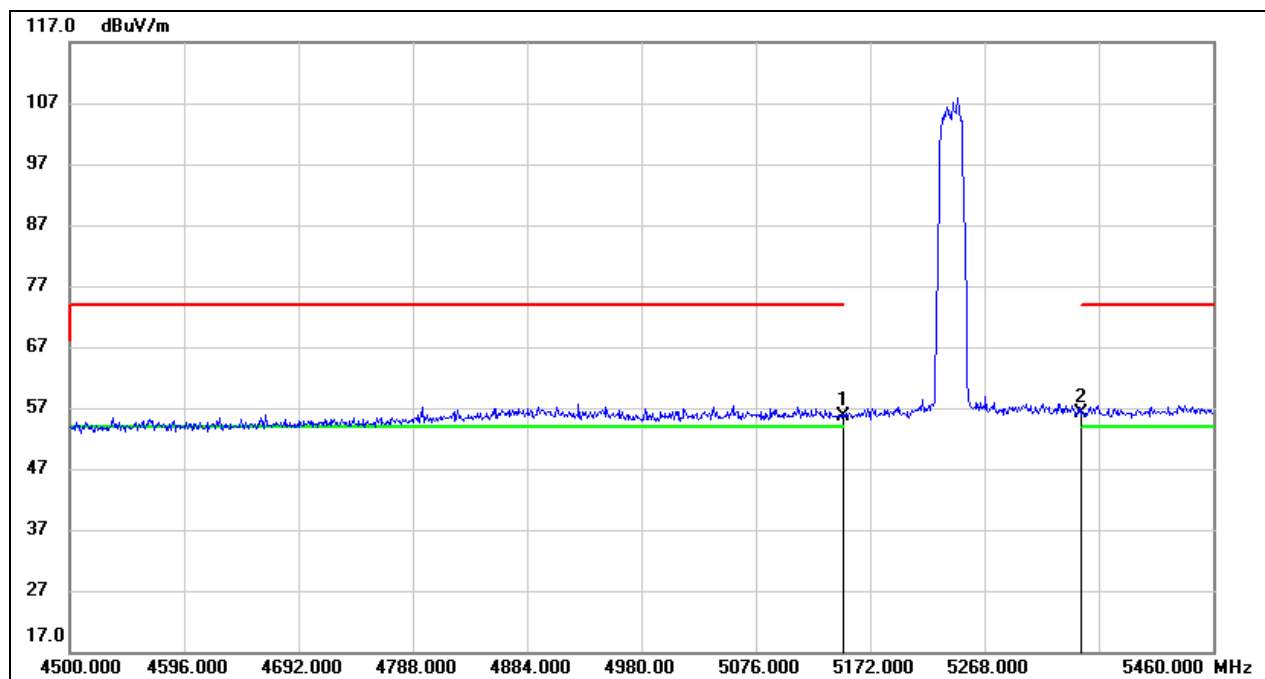
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.58	40.27	55.85	74.00	-18.15	peak

Test Mode:	802.11n HT20 Average	Channel:	5180 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



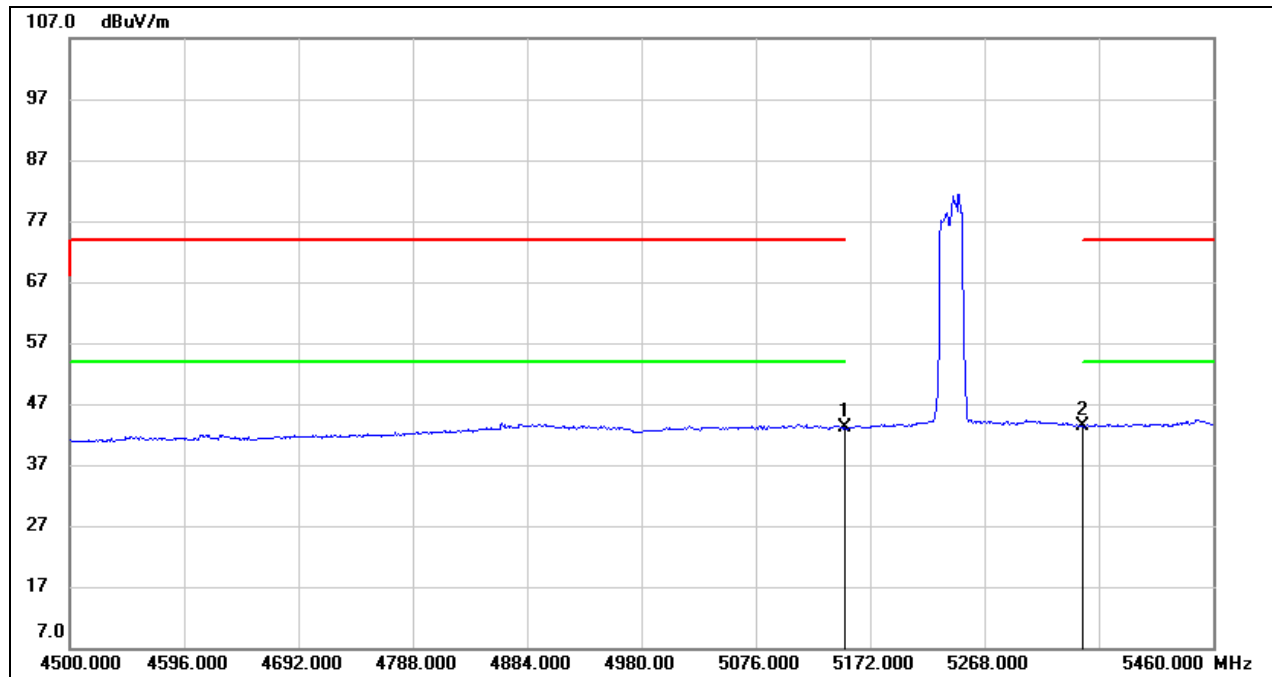
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.11	40.27	43.38	54.00	-10.62	AVG

Test Mode:	802.11n HT20 Peak	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



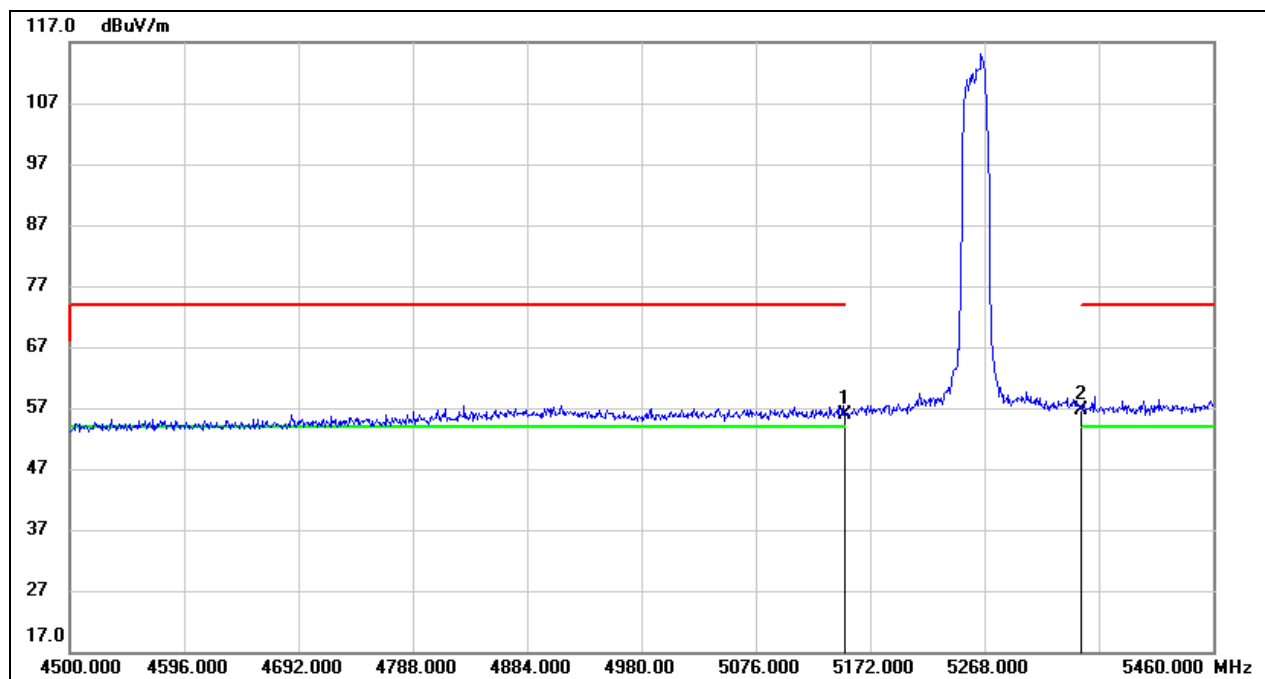
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.39	40.27	55.66	74.00	-18.34	peak
2	5350.000	15.72	40.49	56.21	74.00	-17.79	peak

Test Mode:	802.11n HT20 Average	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



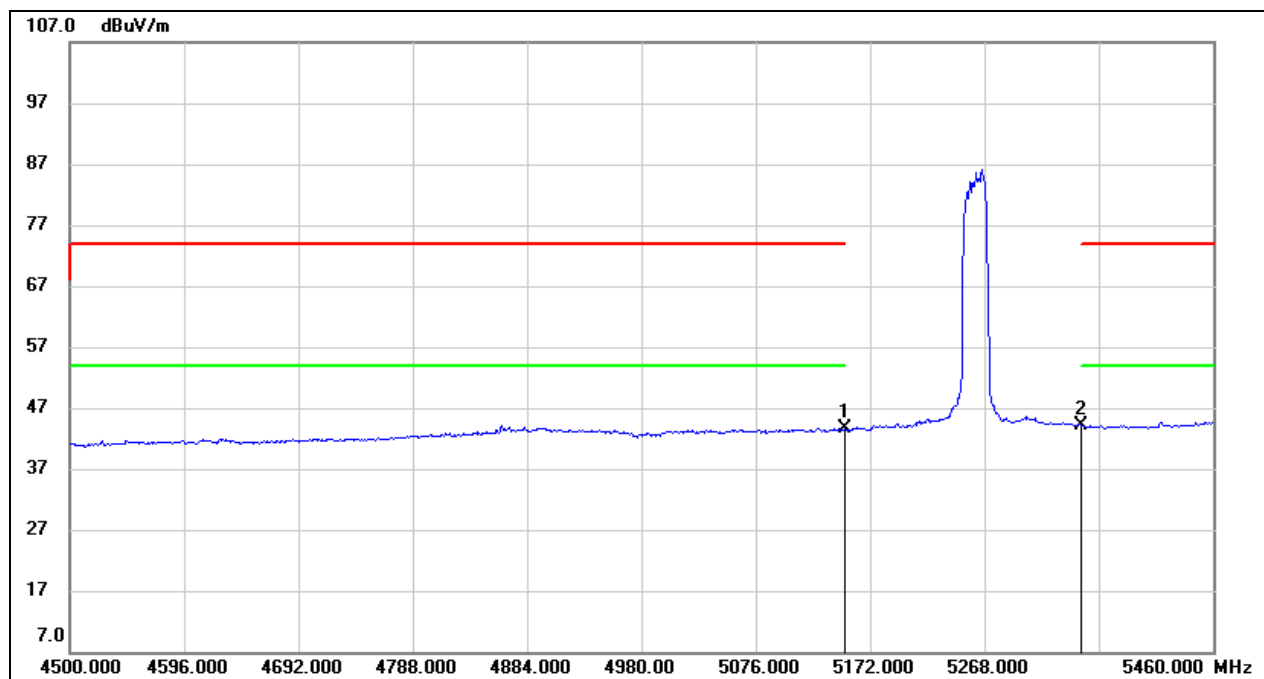
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	2.85	40.27	43.12	54.00	-10.88	AVG
2	5350.000	2.92	40.49	43.41	54.00	-10.59	AVG

Test Mode:	802.11n HT20 Peak	Channel:	5260 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



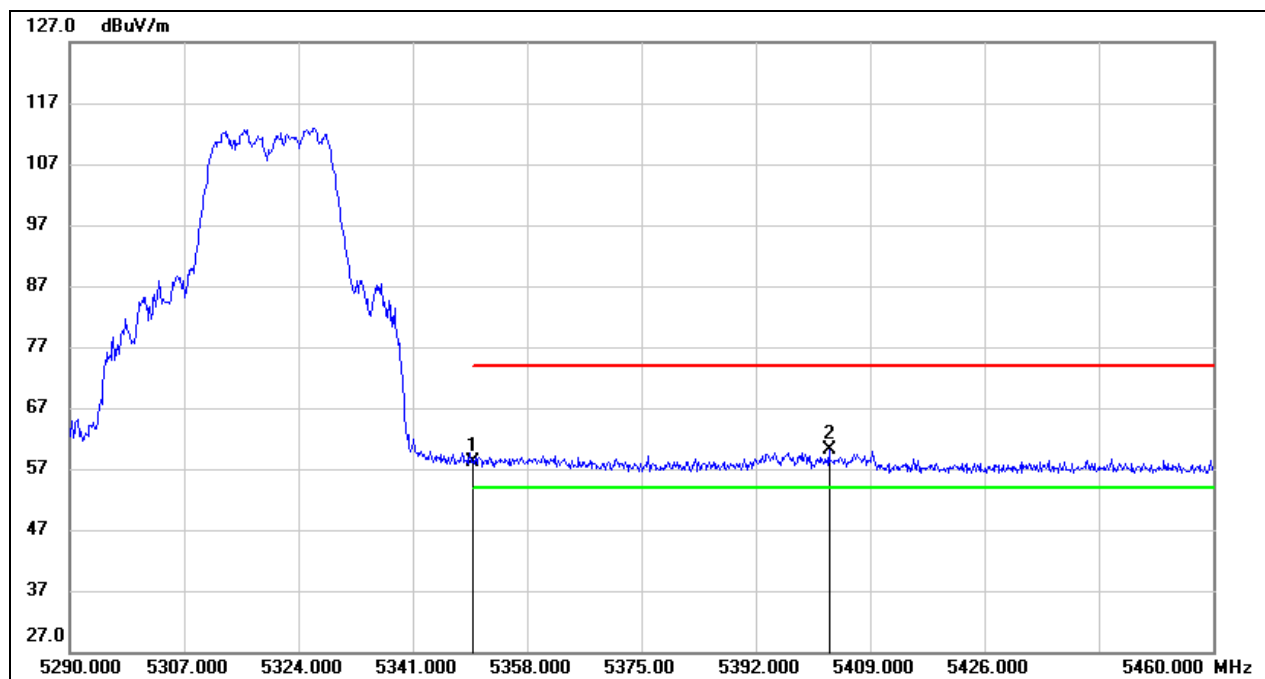
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.61	40.27	55.88	74.00	-18.12	peak
2	5350.000	16.23	40.49	56.72	74.00	-17.28	peak

Test Mode:	802.11n HT20 Average	Channel:	5260 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



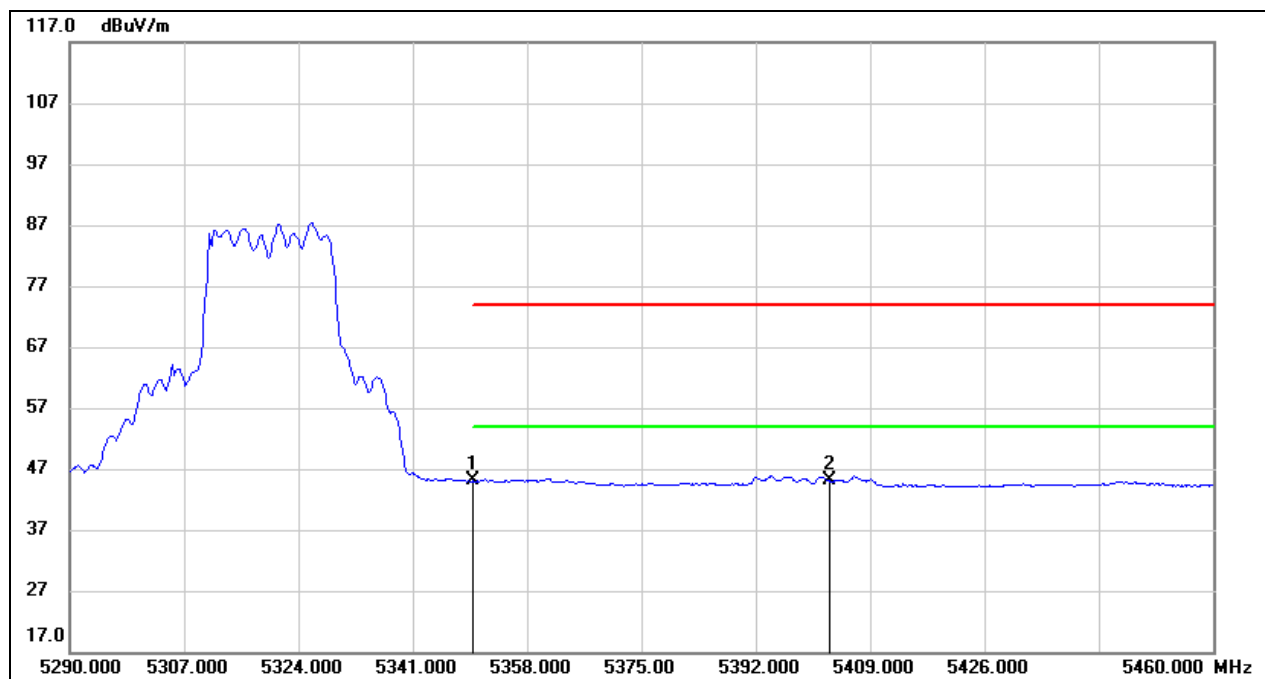
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.24	40.27	43.51	54.00	-10.49	AVG
2	5350.000	3.53	40.49	44.02	54.00	-9.98	AVG

Test Mode:	802.11n HT20 Peak	Channel:	5320 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



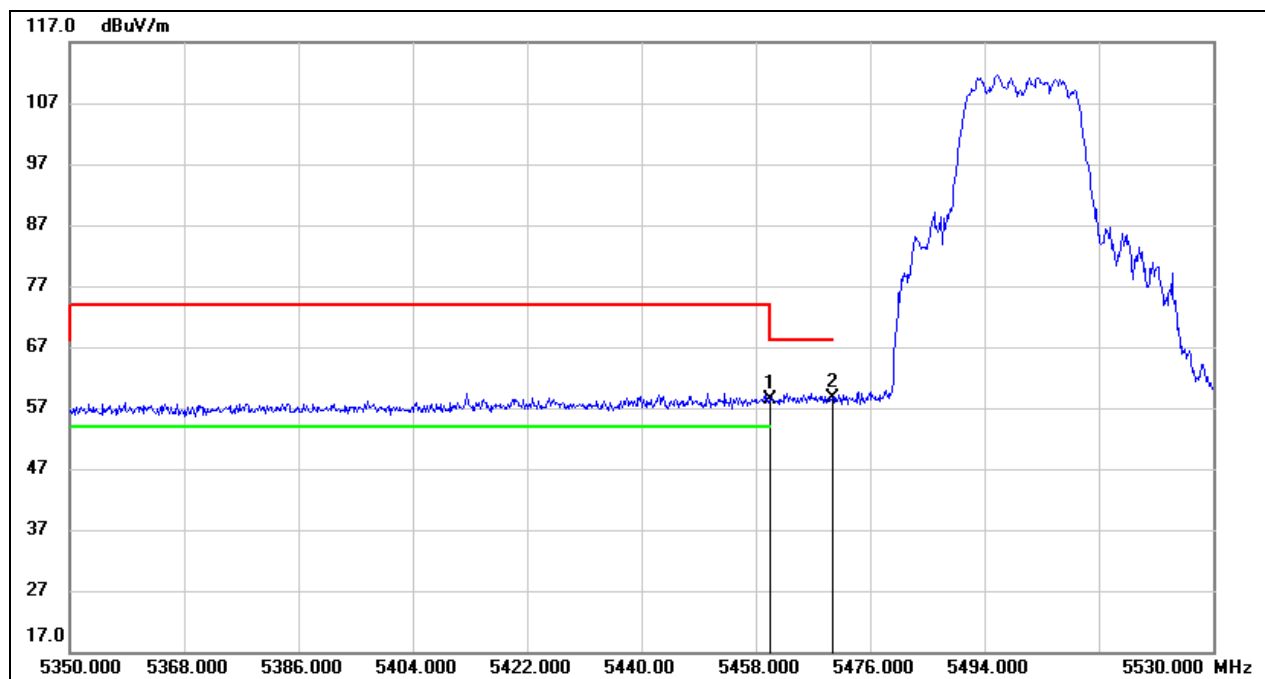
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	17.65	40.49	58.14	74.00	-15.86	peak
2	5402.880	19.59	40.56	60.15	74.00	-13.85	peak

Test Mode:	802.11n HT20 Average	Channel:	5320 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



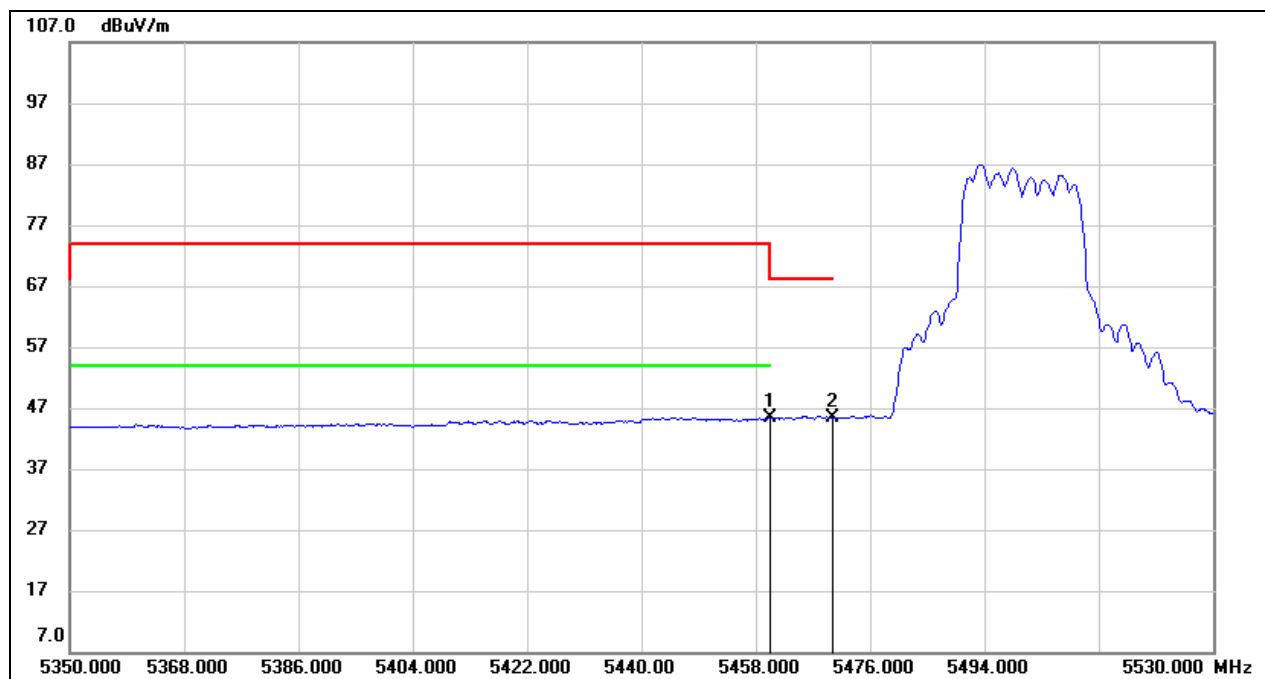
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	4.53	40.49	45.02	54.00	-8.98	AVG
2	5402.880	4.45	40.56	45.01	54.00	-8.99	AVG

Test Mode:	802.11n HT20 Peak	Channel:	5500 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



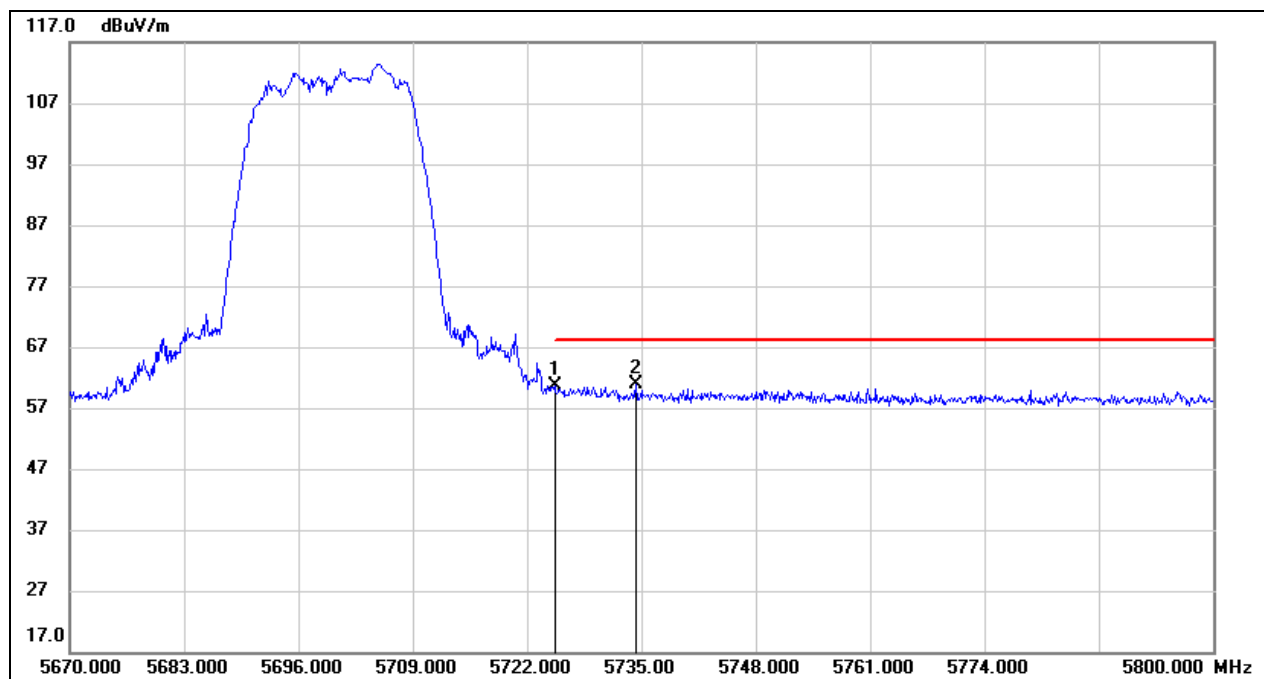
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	17.83	40.62	58.45	68.20	-9.75	peak
2	5470.000	17.98	40.63	58.61	68.20	-9.59	peak

Test Mode:	802.11n HT20 Average	Channel:	5500 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



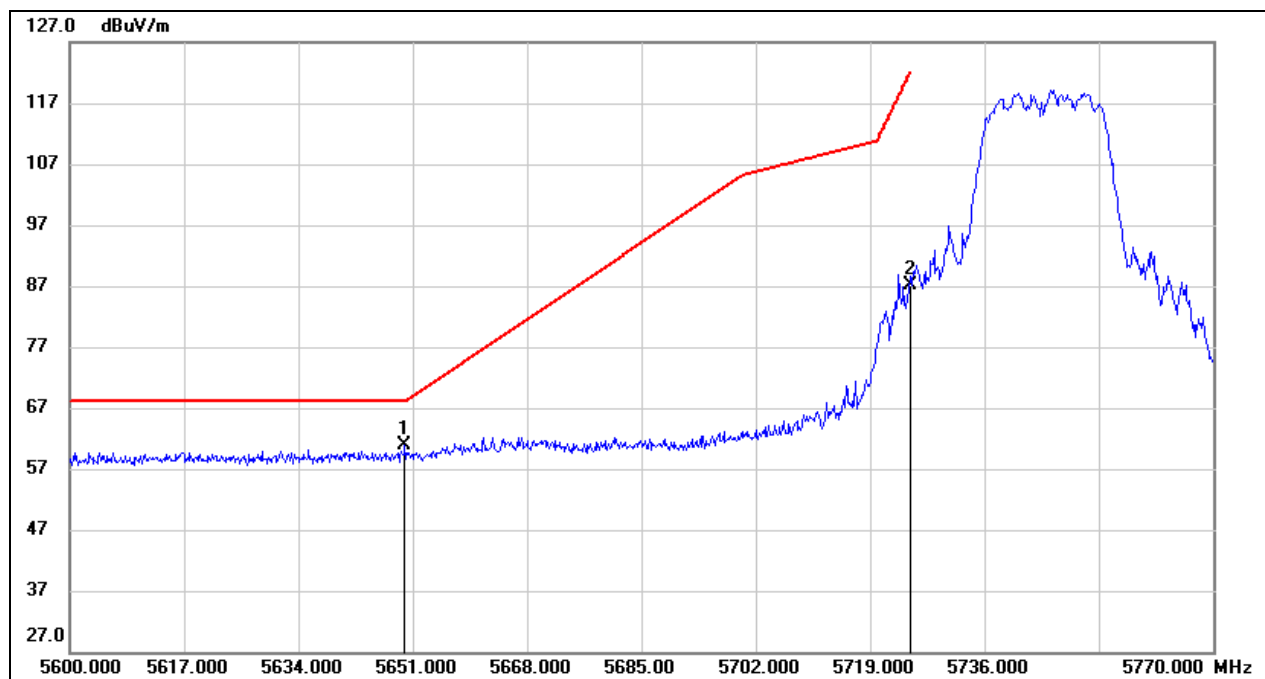
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	4.75	40.62	45.37	54.00	-8.63	AVG
2	5470.000	4.78	40.63	45.41	/	/	AVG

Test Mode:	802.11n HT20 Peak	Channel:	5700 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



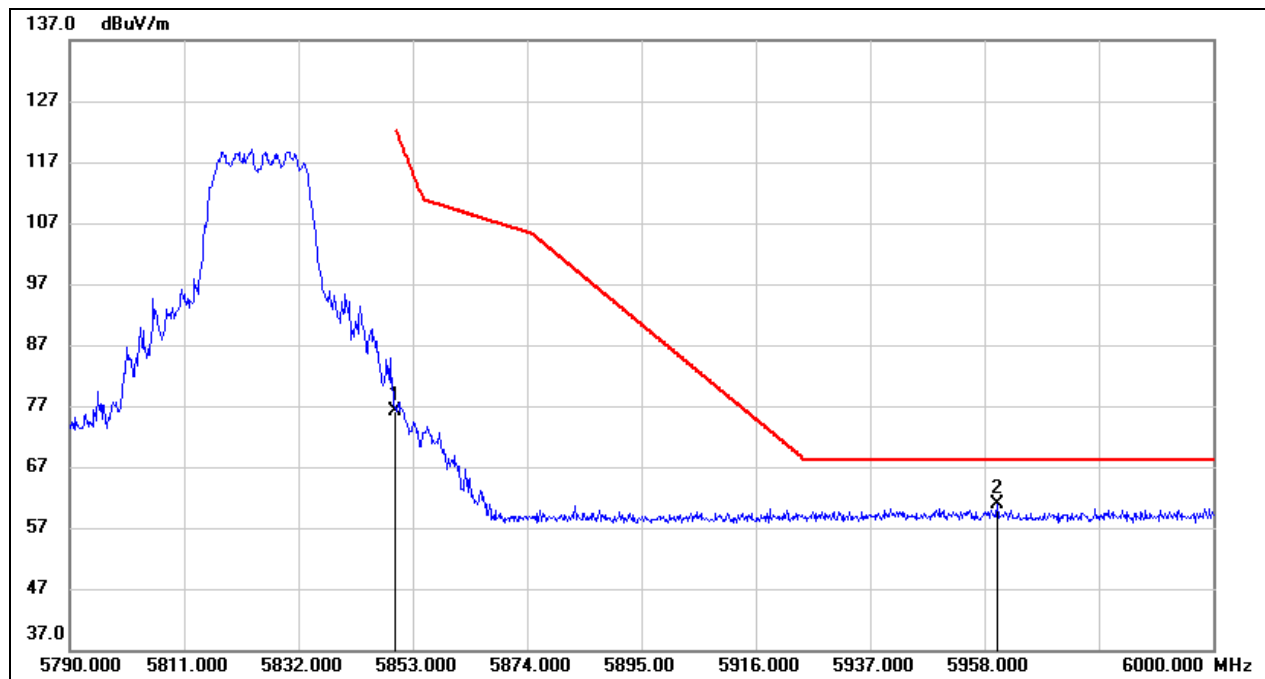
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	19.28	41.27	60.55	68.20	-7.65	peak
2	5734.350	19.62	41.28	60.90	68.20	-7.30	peak

Test Mode:	802.11n HT20 Peak	Channel:	5745 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



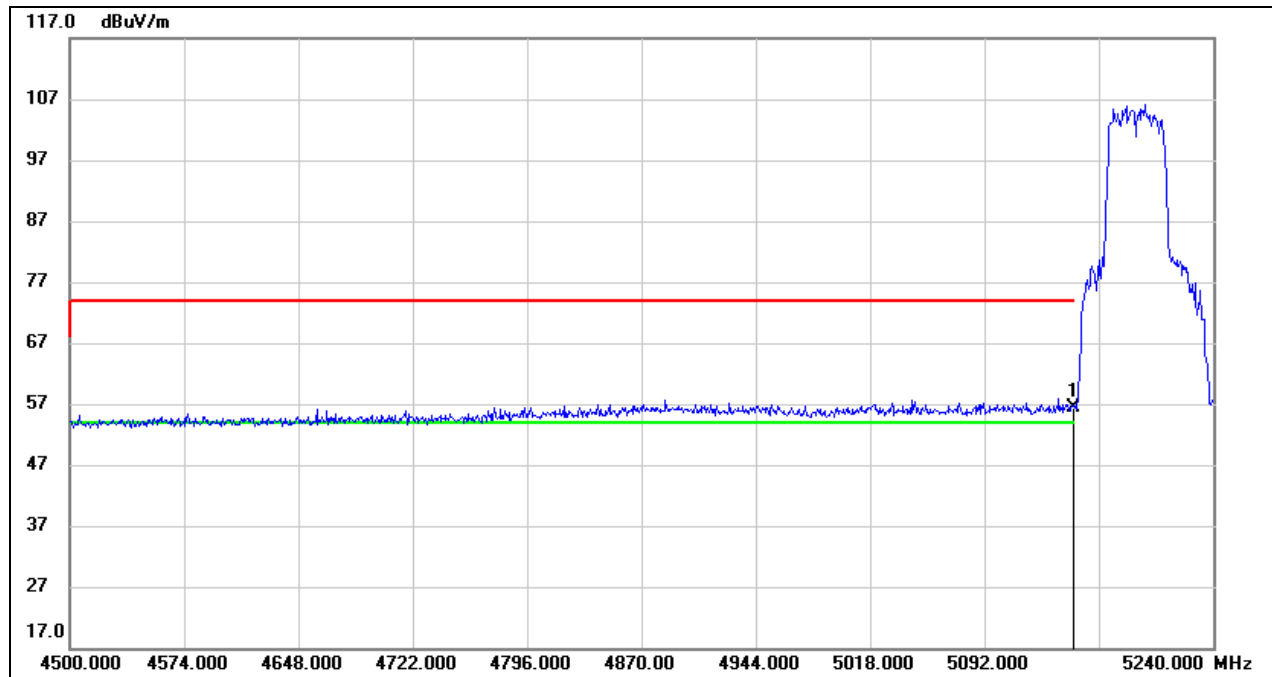
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5649.810	19.91	41.06	60.97	68.20	-7.23	peak
2	5725.000	45.75	41.27	87.02	122.20	-35.18	peak

Test Mode:	802.11n HT20 Peak	Channel:	5825 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



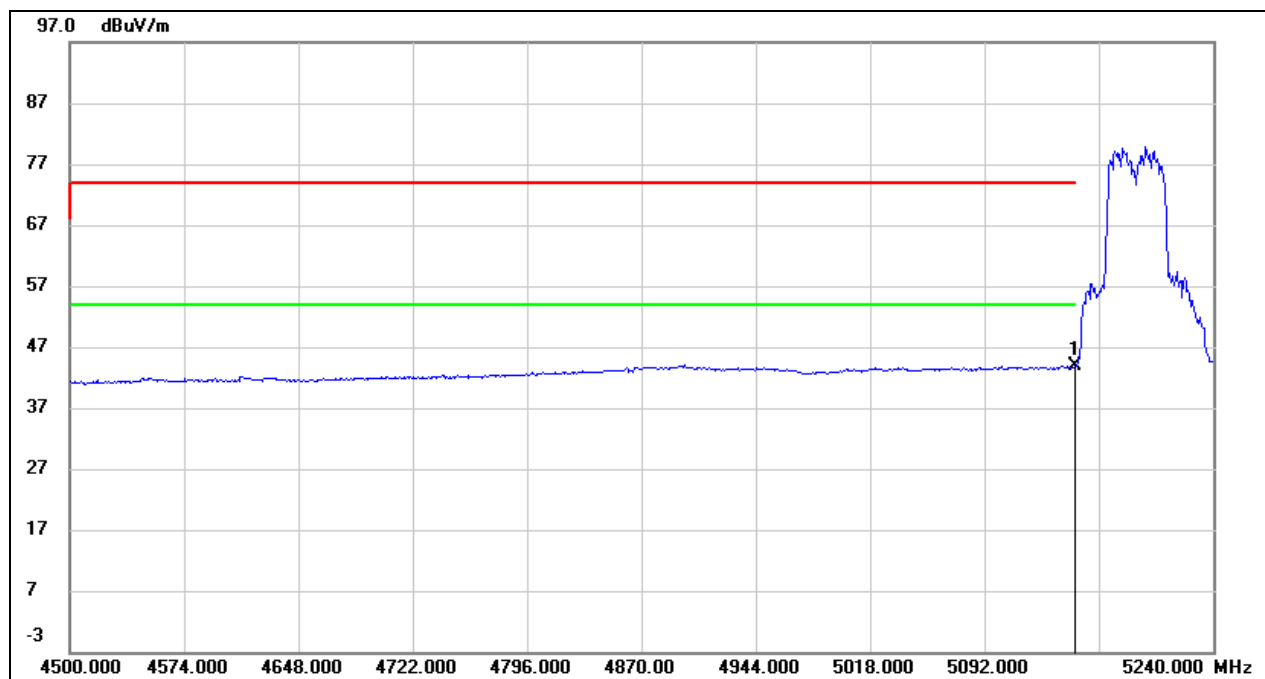
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	34.54	41.60	76.14	122.20	-46.06	peak
2	5960.310	19.00	41.89	60.89	68.20	-7.31	peak

Test Mode:	802.11n HT40 Peak	Channel:	5190 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



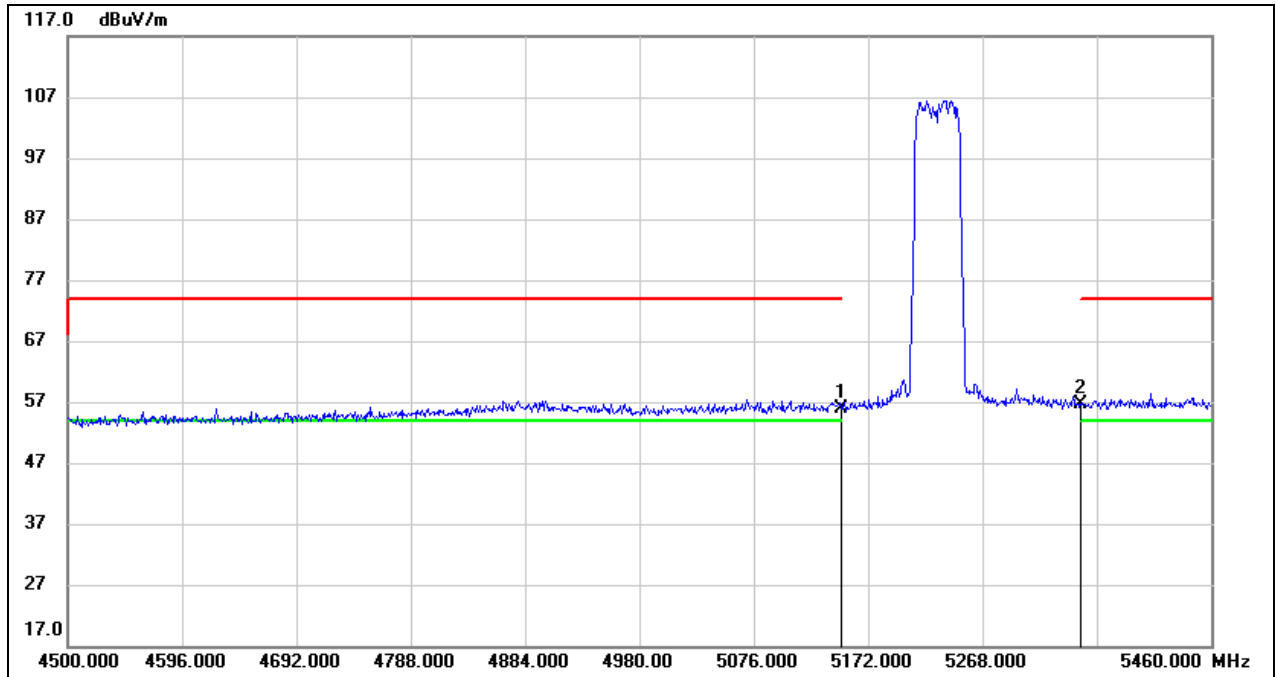
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	16.12	40.27	56.39	74.00	-17.61	peak

Test Mode:	802.11n HT40 Average	Channel:	5190 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



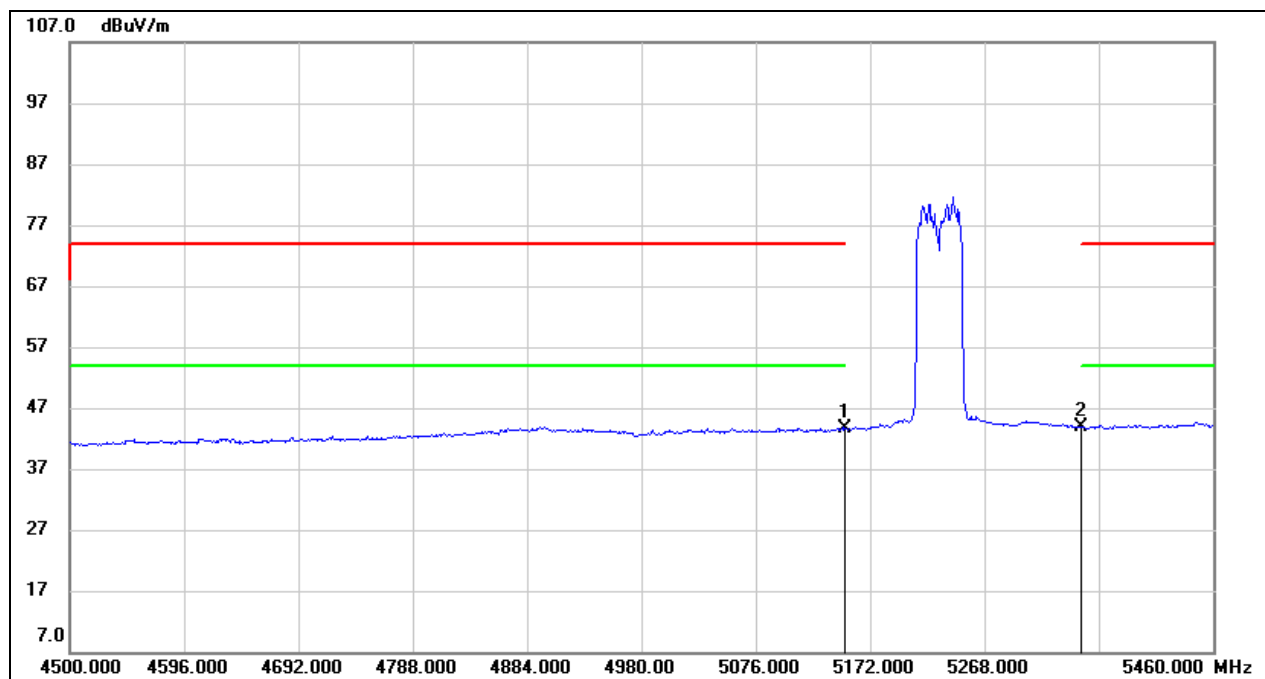
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.49	40.27	43.76	54.00	-10.24	AVG

Test Mode:	802.11n HT40 Peak	Channel:	5230 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



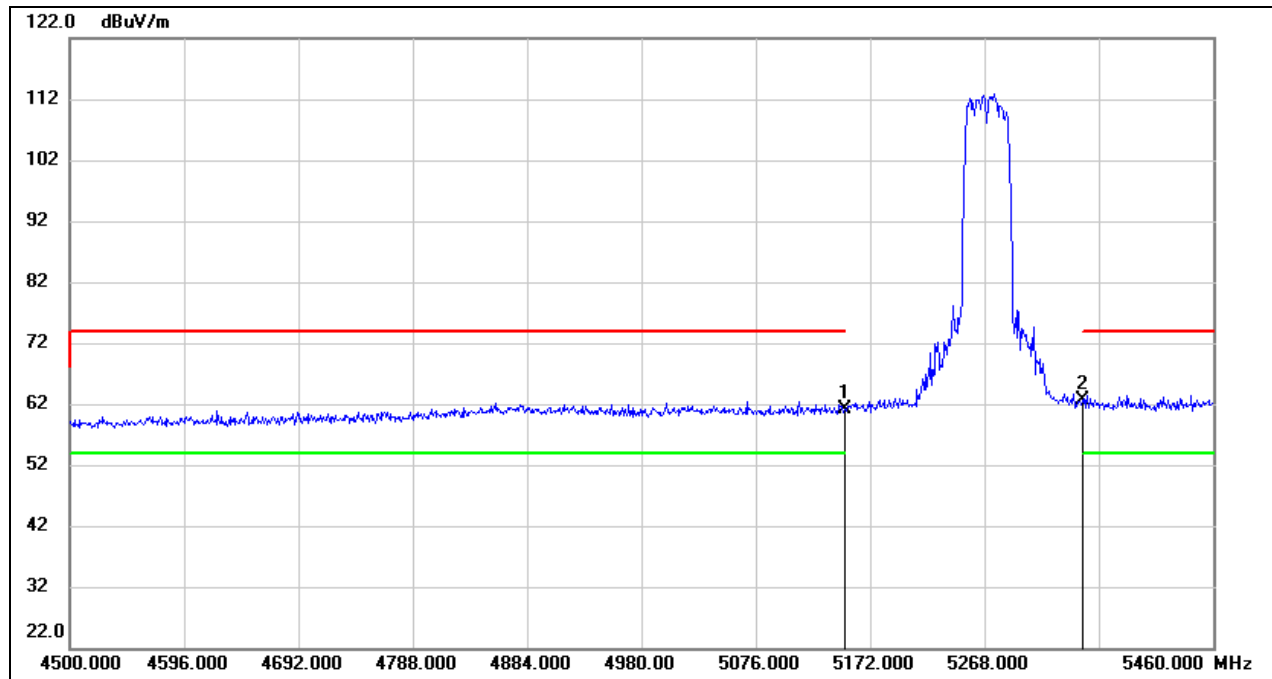
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.61	40.27	55.88	74.00	-18.12	peak
2	5350.000	16.14	40.49	56.63	74.00	-17.37	peak

Test Mode:	802.11n HT40 Average	Channel:	5230 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



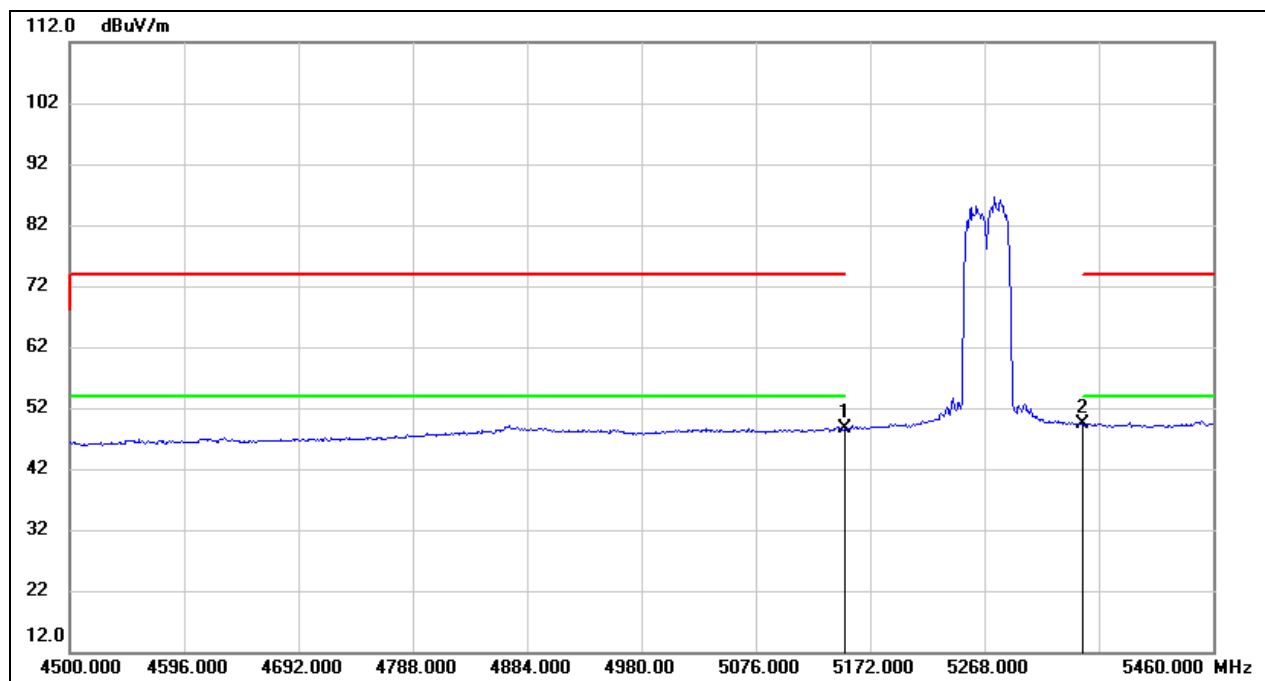
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.29	40.27	43.56	54.00	-10.44	AVG
2	5350.000	3.27	40.49	43.76	54.00	-10.24	AVG

Test Mode:	802.11n HT40 Peak	Channel:	5270 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



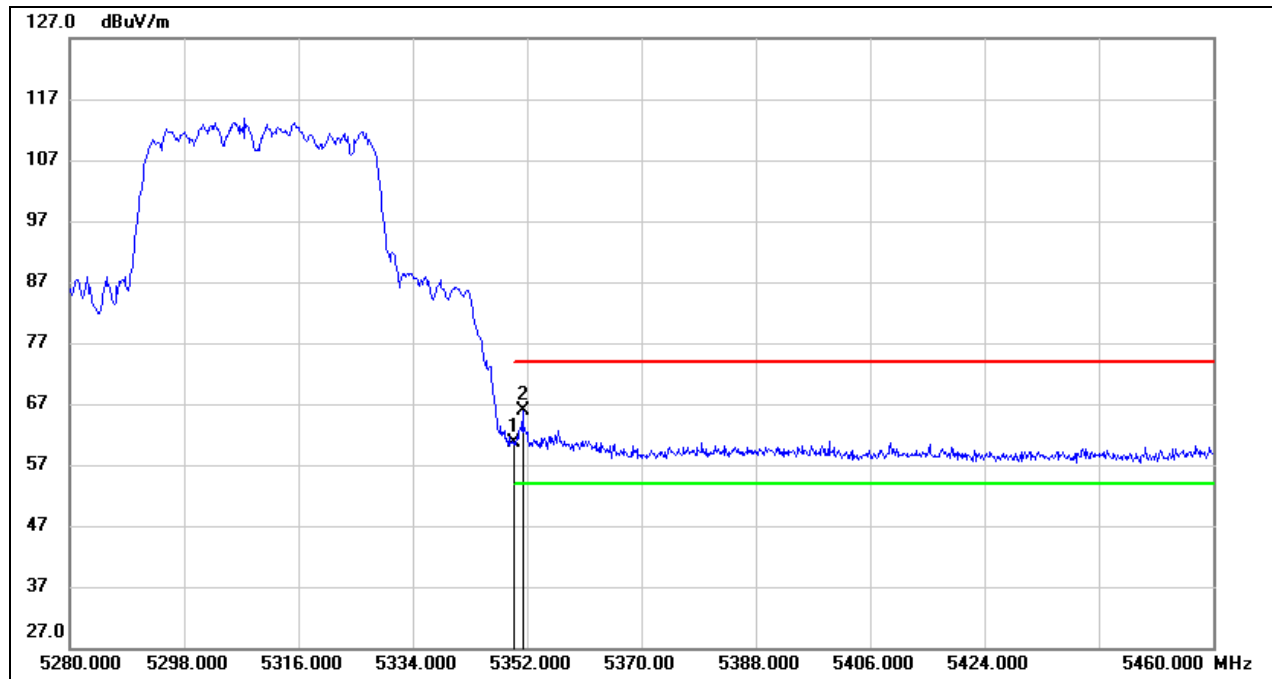
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	20.88	40.27	61.15	74.00	-12.85	peak
2	5350.000	22.03	40.49	62.52	74.00	-11.48	peak

Test Mode:	802.11n HT40 Average	Channel:	5270 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



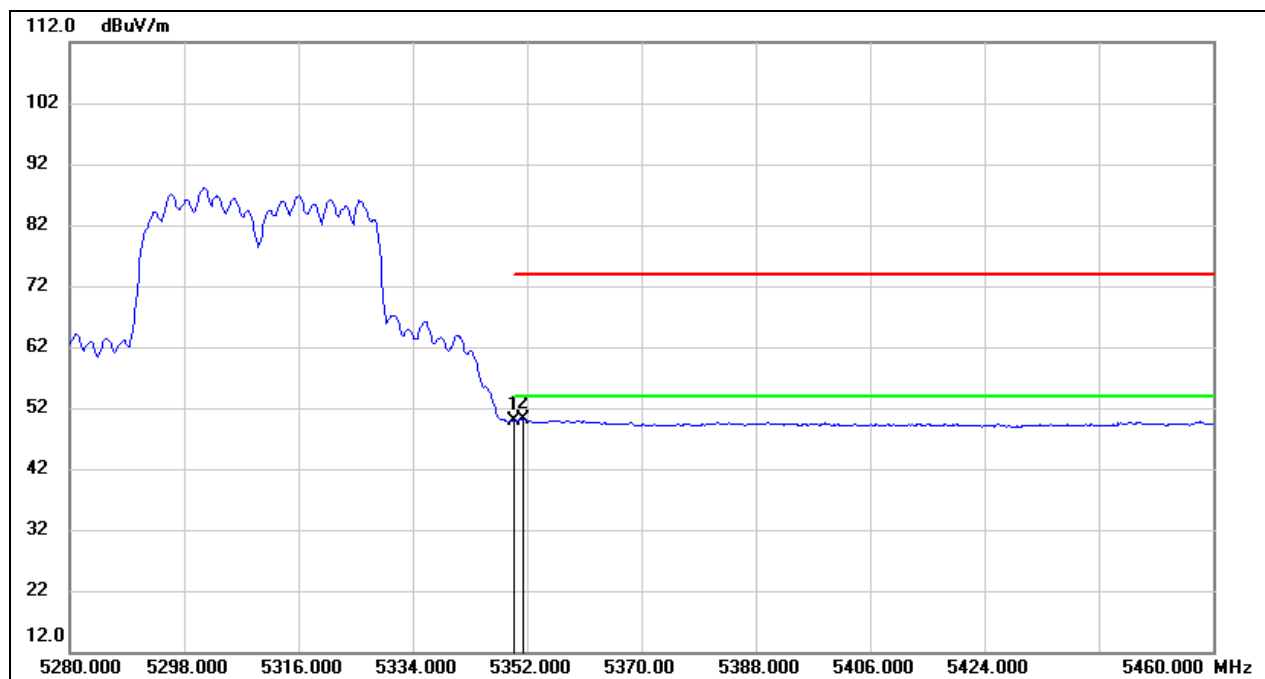
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	8.46	40.27	48.73	54.00	-5.27	AVG
2	5350.000	8.90	40.49	49.39	54.00	-4.61	AVG

Test Mode:	802.11n HT40 Peak	Channel:	5310 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



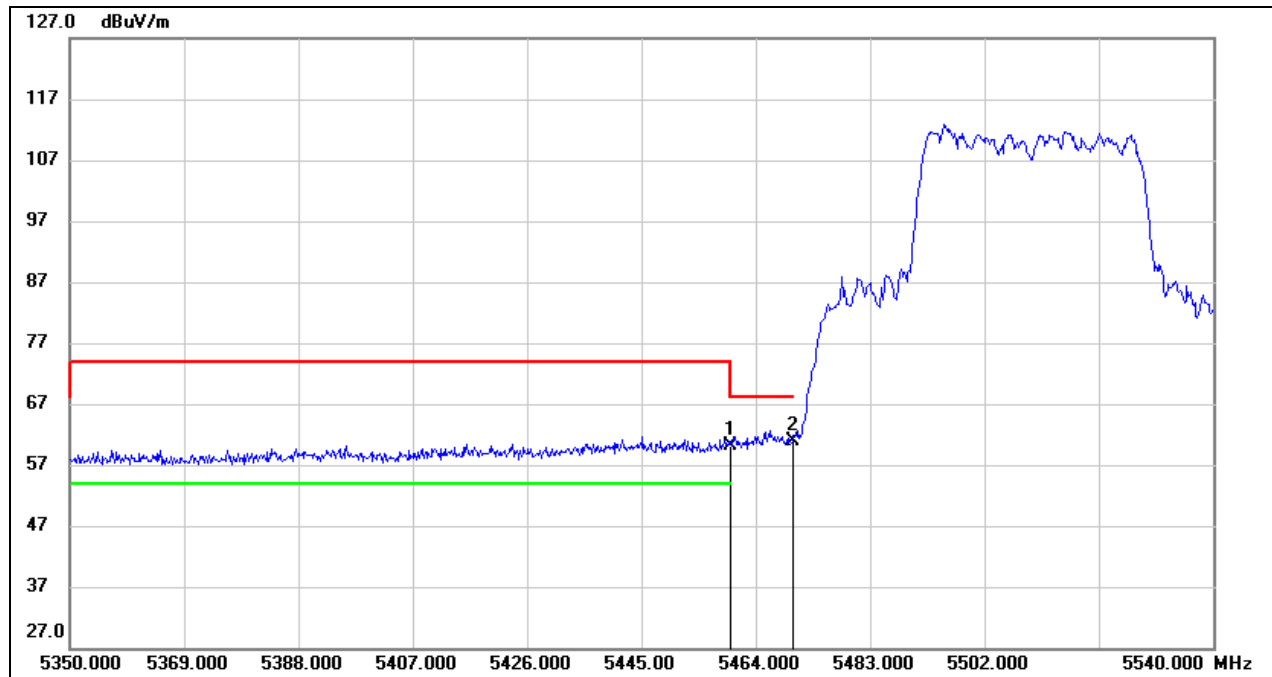
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	20.12	40.49	60.61	74.00	-13.39	peak
2	5351.280	25.33	40.49	65.82	74.00	-8.18	peak

Test Mode:	802.11n HT40 Average	Channel:	5310 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



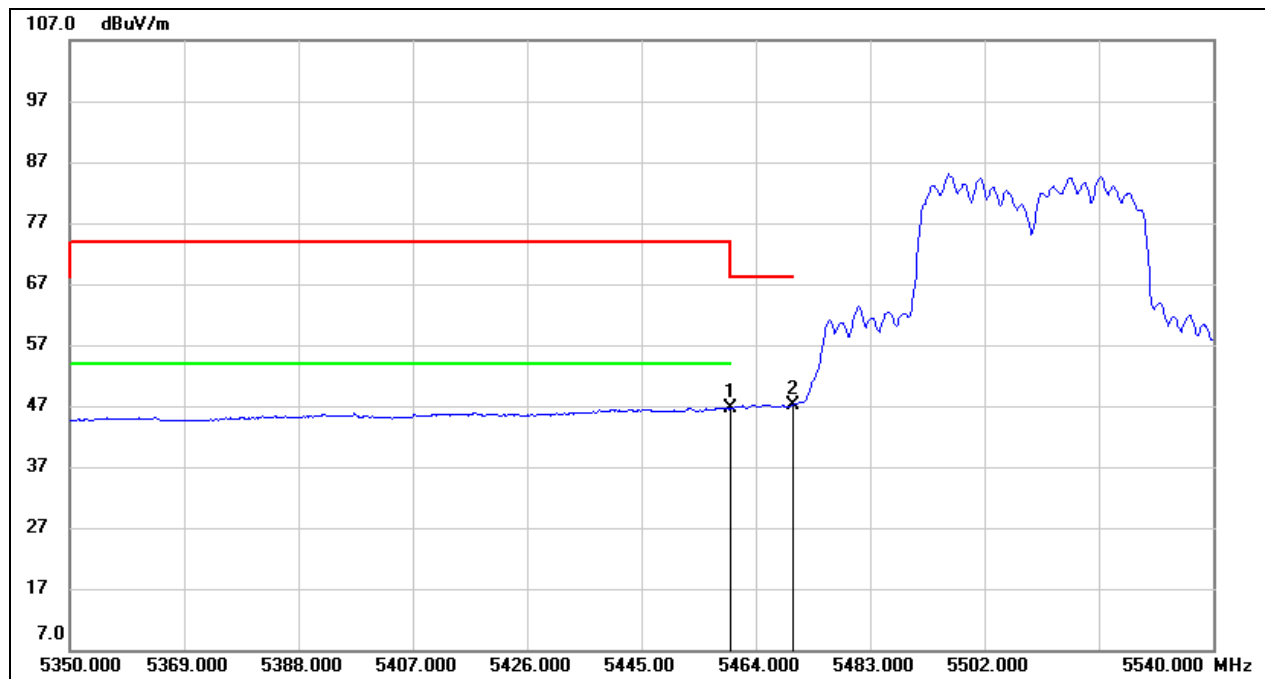
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	9.32	40.49	49.81	54.00	-4.19	AVG
2	5351.280	9.75	40.49	50.24	54.00	-3.76	AVG

Test Mode:	802.11n HT40 Peak	Channel:	5510 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



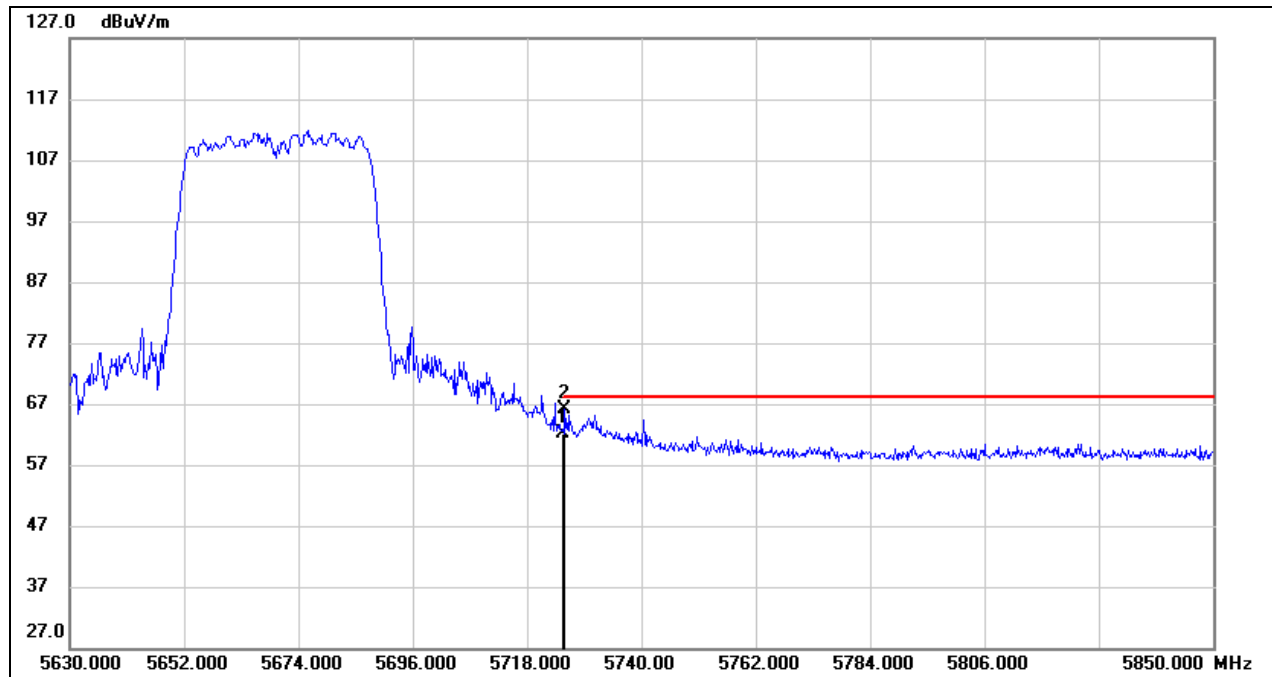
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	19.41	40.62	60.03	68.20	-8.17	peak
2	5470.000	20.31	40.63	60.94	68.20	-7.26	peak

Test Mode:	802.11n HT40 Average	Channel:	5510 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



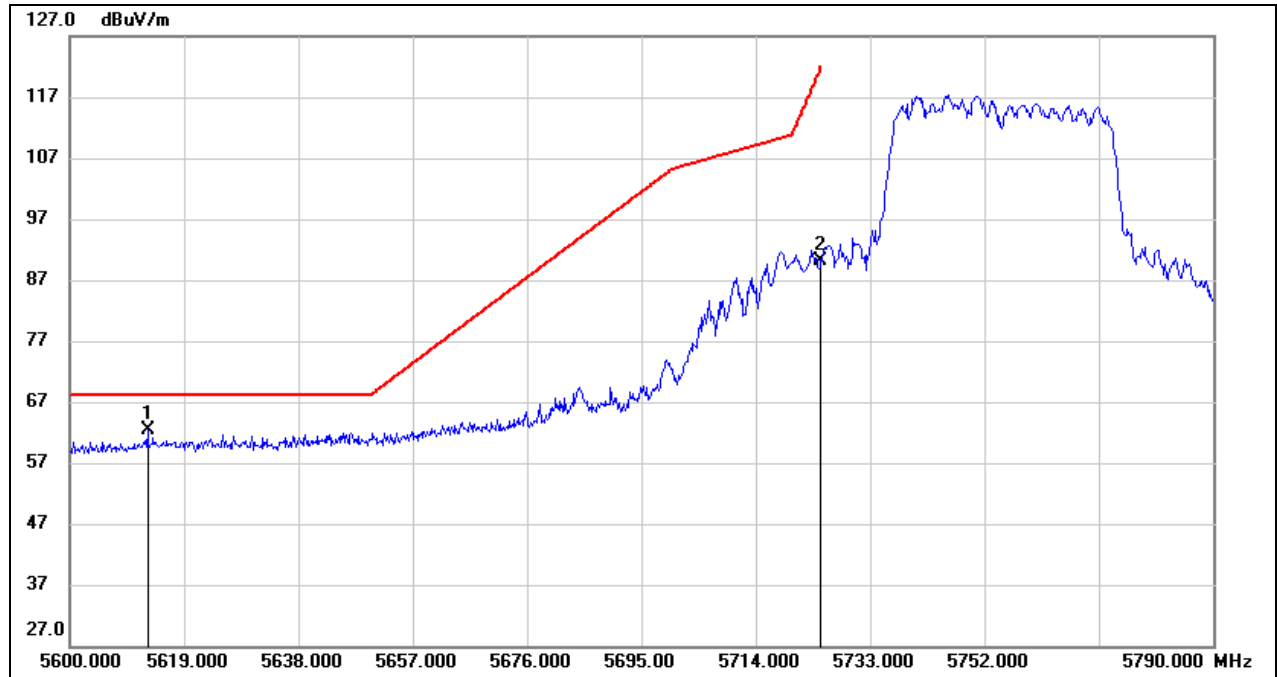
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	5.90	40.62	46.52	54.00	-7.48	AVG
2	5470.000	6.43	40.63	47.06	/	/	AVG

Test Mode:	802.11n HT40 Peak	Channel:	5670 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



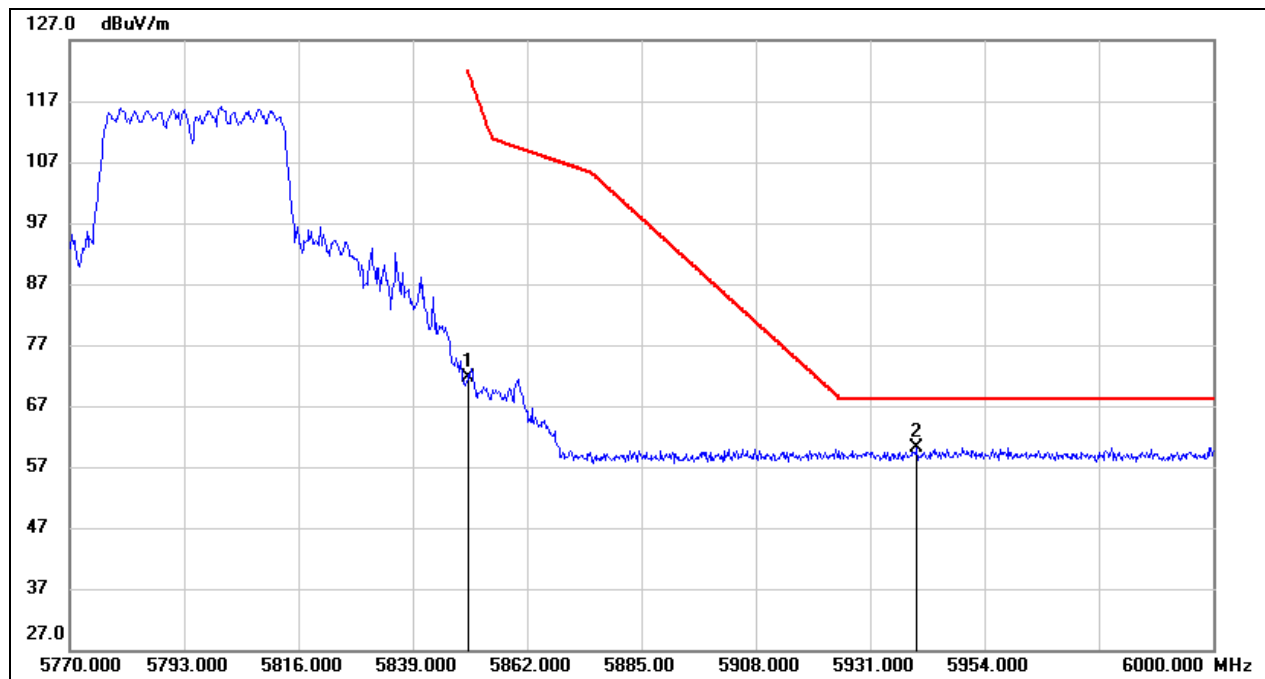
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	20.74	41.27	62.01	68.20	-6.19	peak
2	5725.260	24.79	41.27	66.06	68.20	-2.14	peak

Test Mode:	802.11n HT40 Peak	Channel:	5755 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



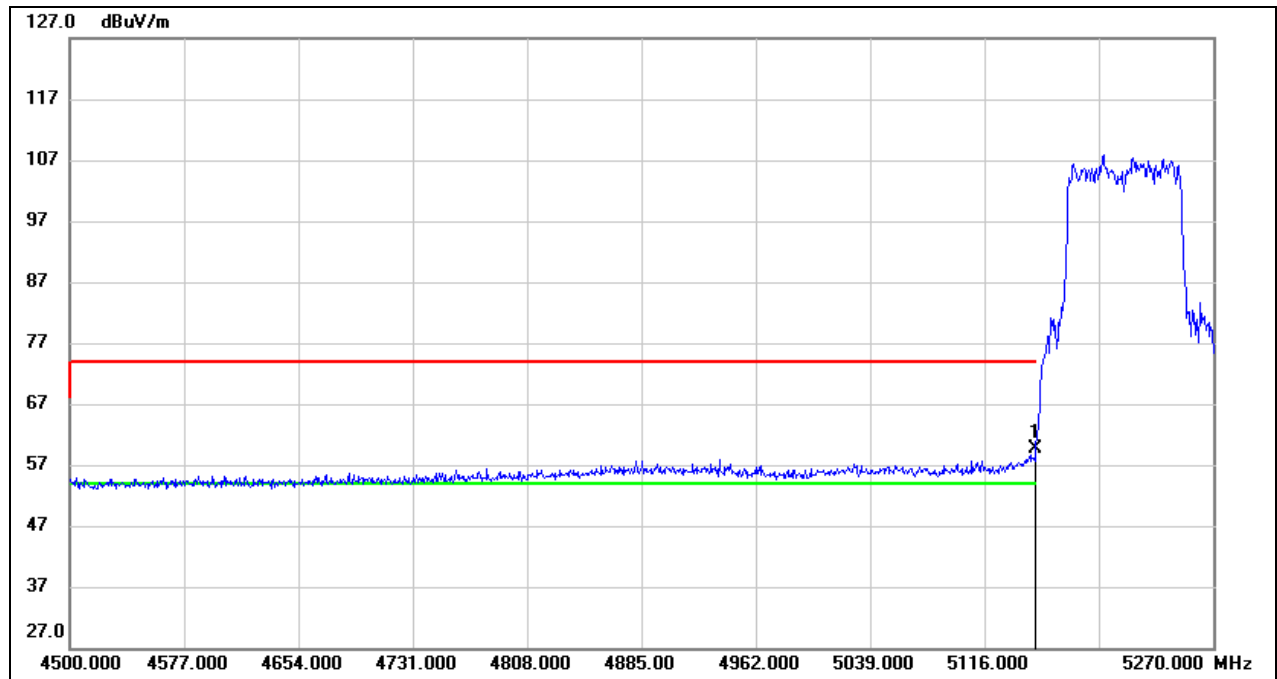
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5612.920	21.39	40.96	62.35	68.20	-5.85	peak
2	5725.000	48.81	41.27	90.08	122.20	-32.12	peak

Test Mode:	802.11n HT40 Peak	Channel:	5795 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



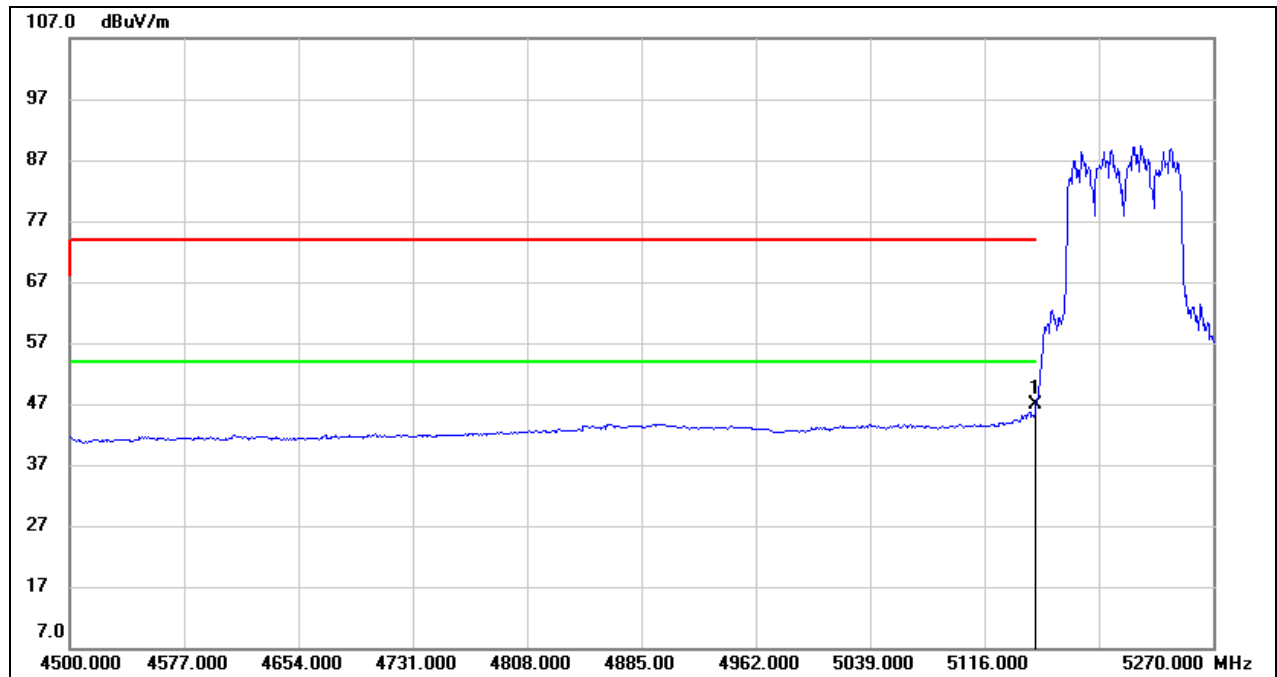
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	30.03	41.60	71.63	122.20	-50.57	peak
2	5940.430	18.40	41.84	60.24	68.20	-7.96	peak

Test Mode:	802.11ac VHT80 Peak	Channel:	5210 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



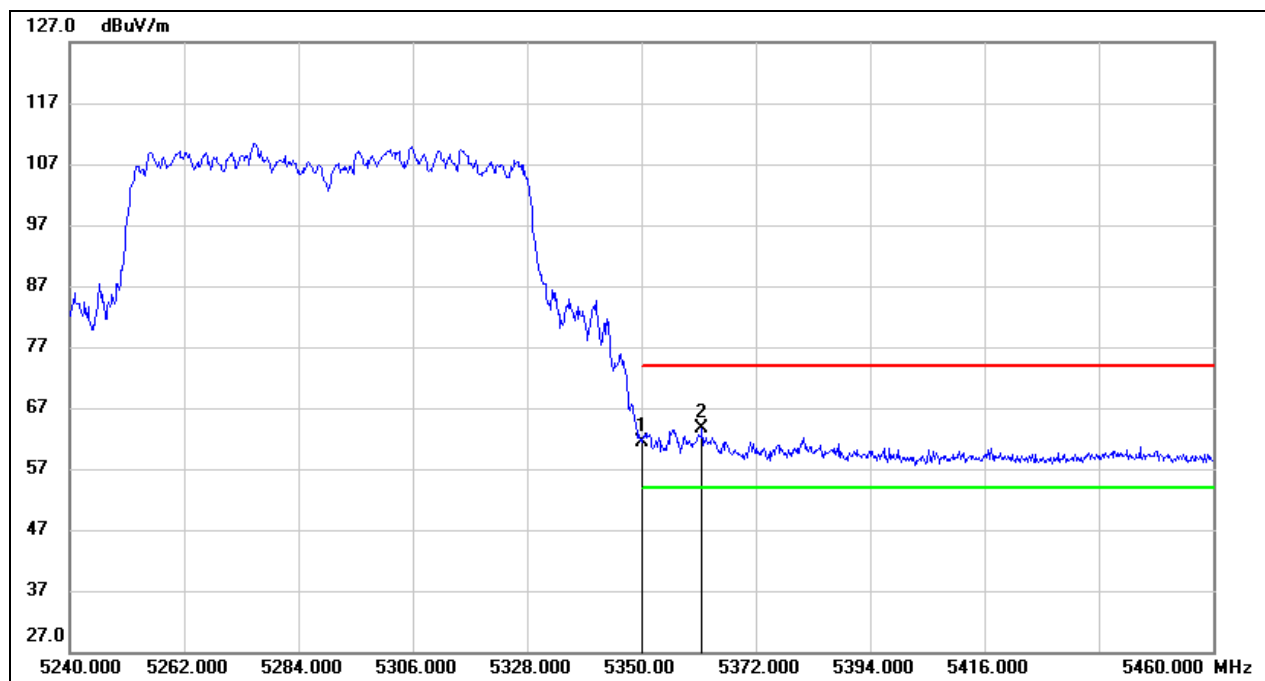
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	19.28	40.27	59.55	74.00	-14.45	peak

Test Mode:	802.11ac VHT80 Average	Channel:	5210 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



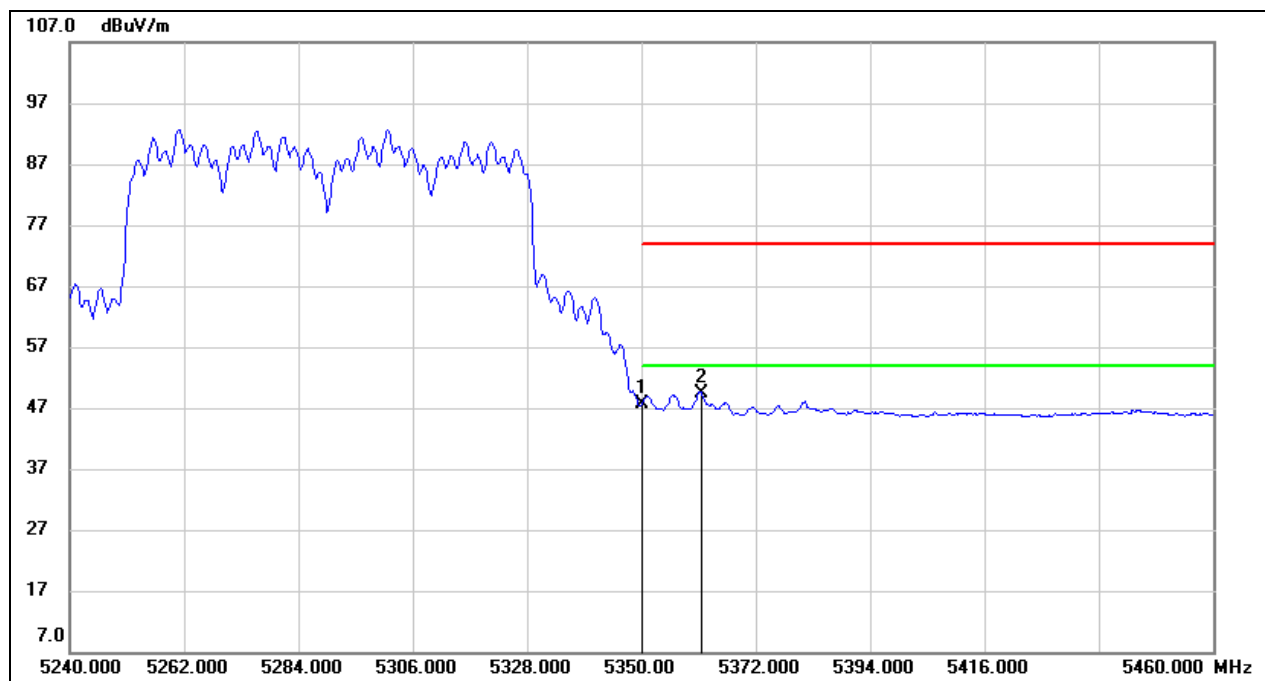
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	6.52	40.27	46.79	54.00	-7.21	AVG

Test Mode:	802.11ac VHT80 Peak	Channel:	5290 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



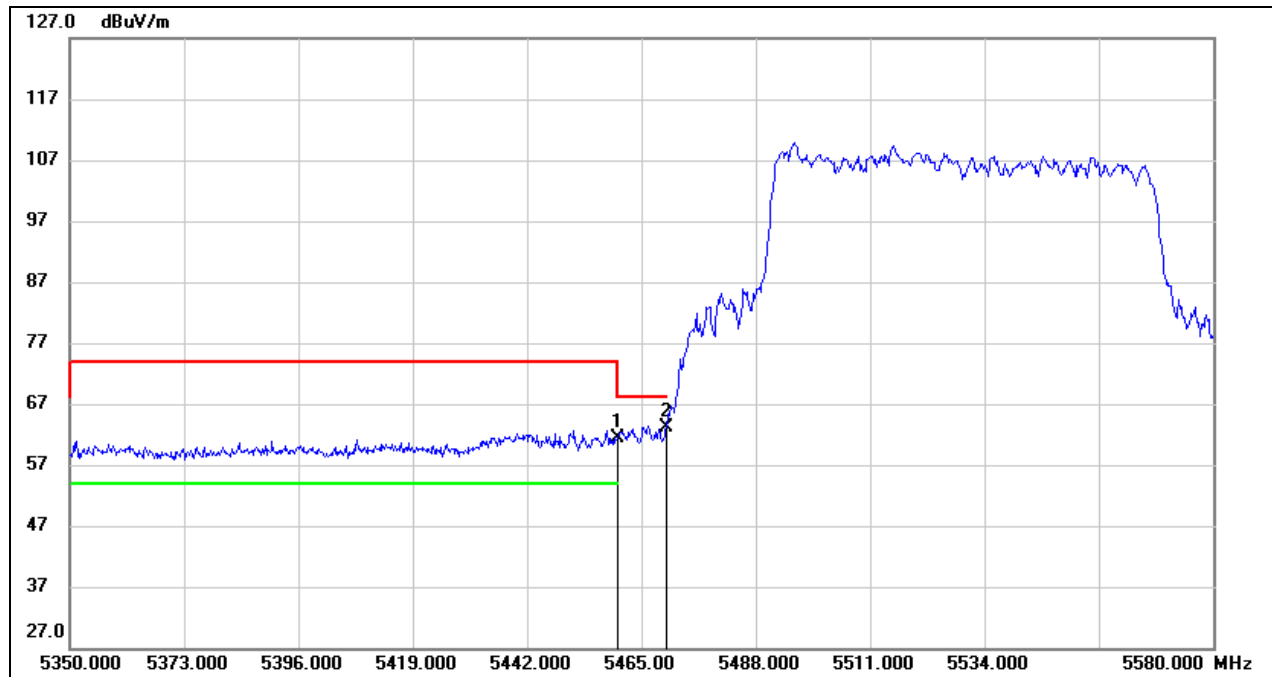
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	20.93	40.49	61.42	74.00	-12.58	peak
2	5361.660	23.13	40.50	63.63	74.00	-10.37	peak

Test Mode:	802.11ac VHT80 Average	Channel:	5290 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



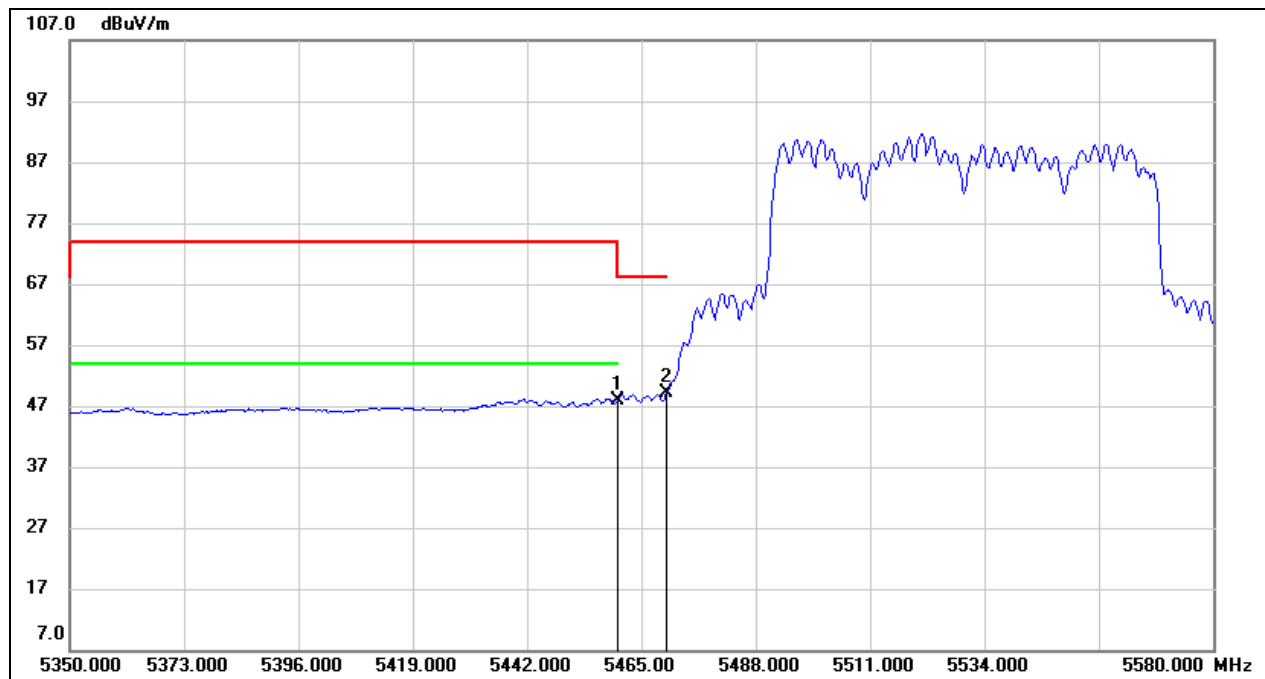
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	7.11	40.49	47.60	54.00	-6.40	AVG
2	5361.660	8.80	40.50	49.30	54.00	-4.70	AVG

Test Mode:	802.11ac VHT80 Peak	Channel:	5530 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



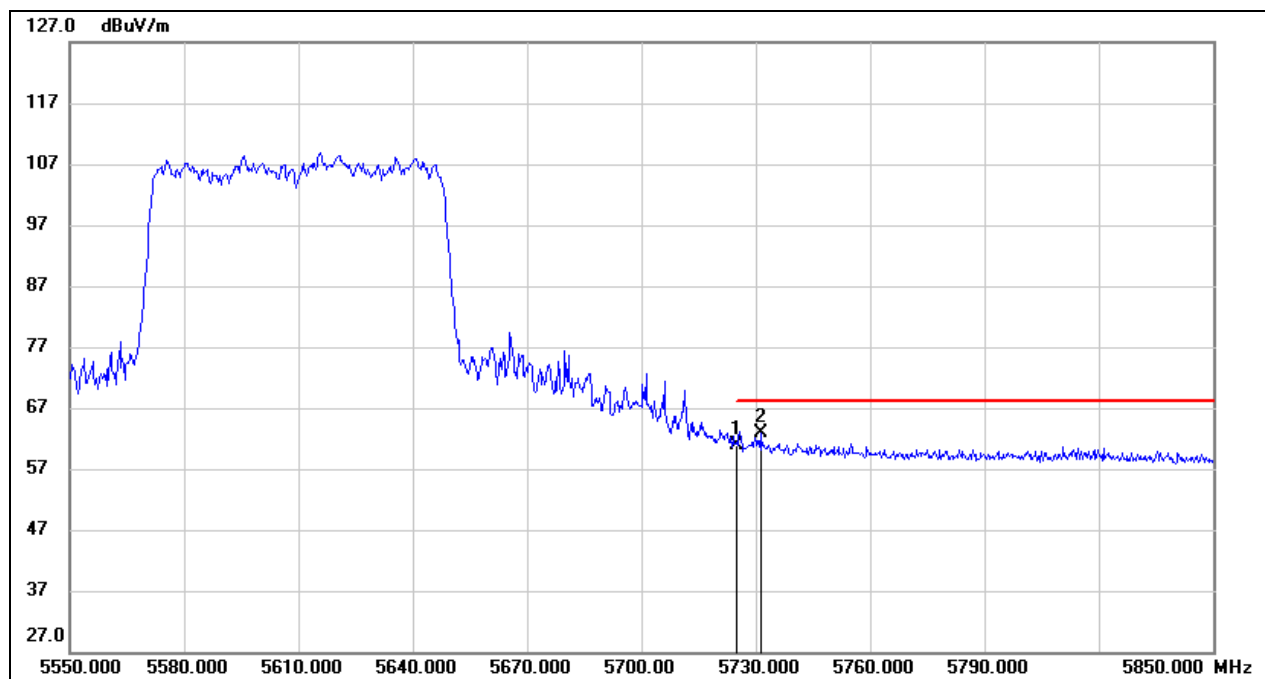
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	20.88	40.62	61.50	68.20	-6.70	peak
2	5470.000	22.48	40.63	63.11	68.20	-5.09	peak

Test Mode:	802.11ac VHT80 Average	Channel:	5530 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



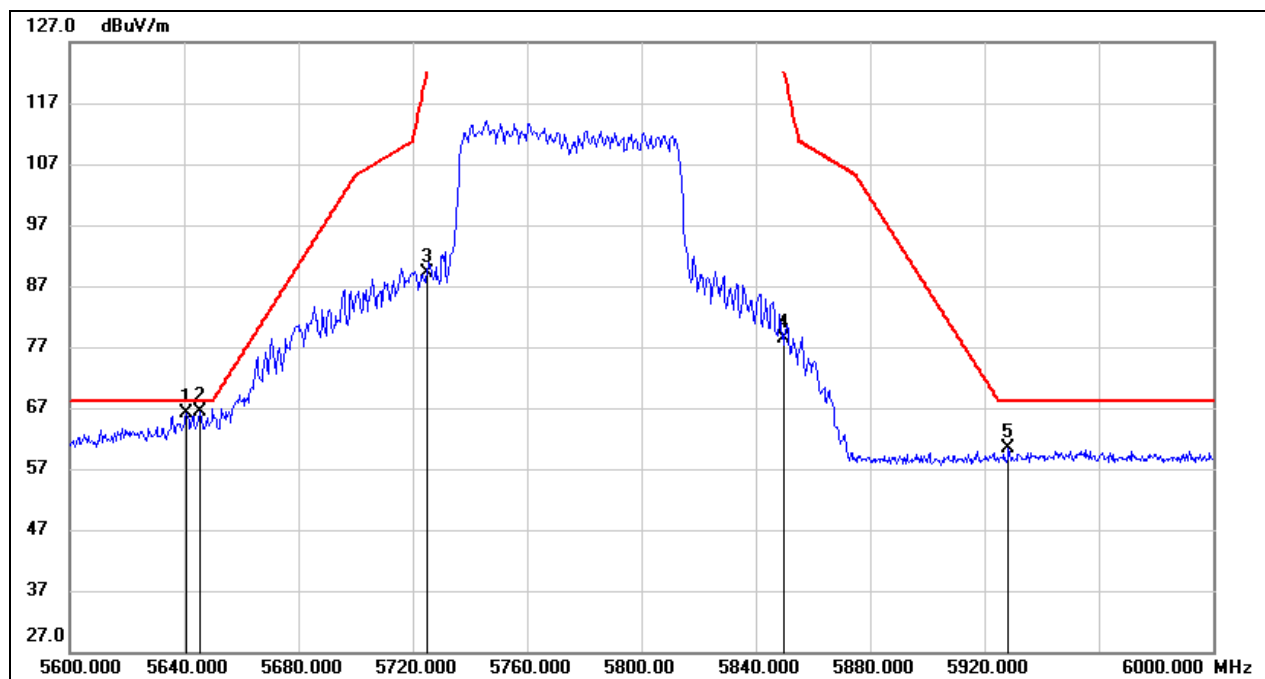
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	7.30	40.62	47.92	54.00	-6.08	AVG
2	5470.000	8.43	40.63	49.06	/	/	AVG

Test Mode:	802.11ac VHT80 Peak	Channel:	5610 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



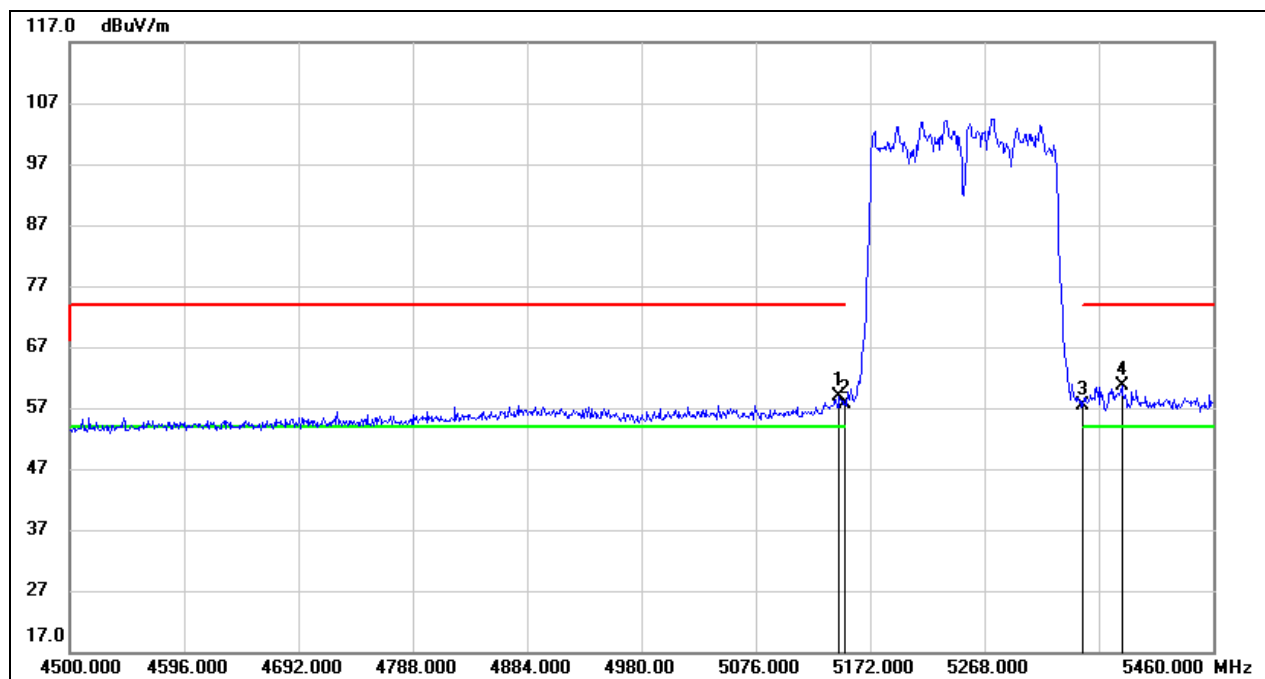
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	19.63	41.27	60.90	68.20	-7.30	peak
2	5731.200	21.59	41.28	62.87	68.20	-5.33	peak

Test Mode:	802.11ac VHT80 Peak	Channel:	5775 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



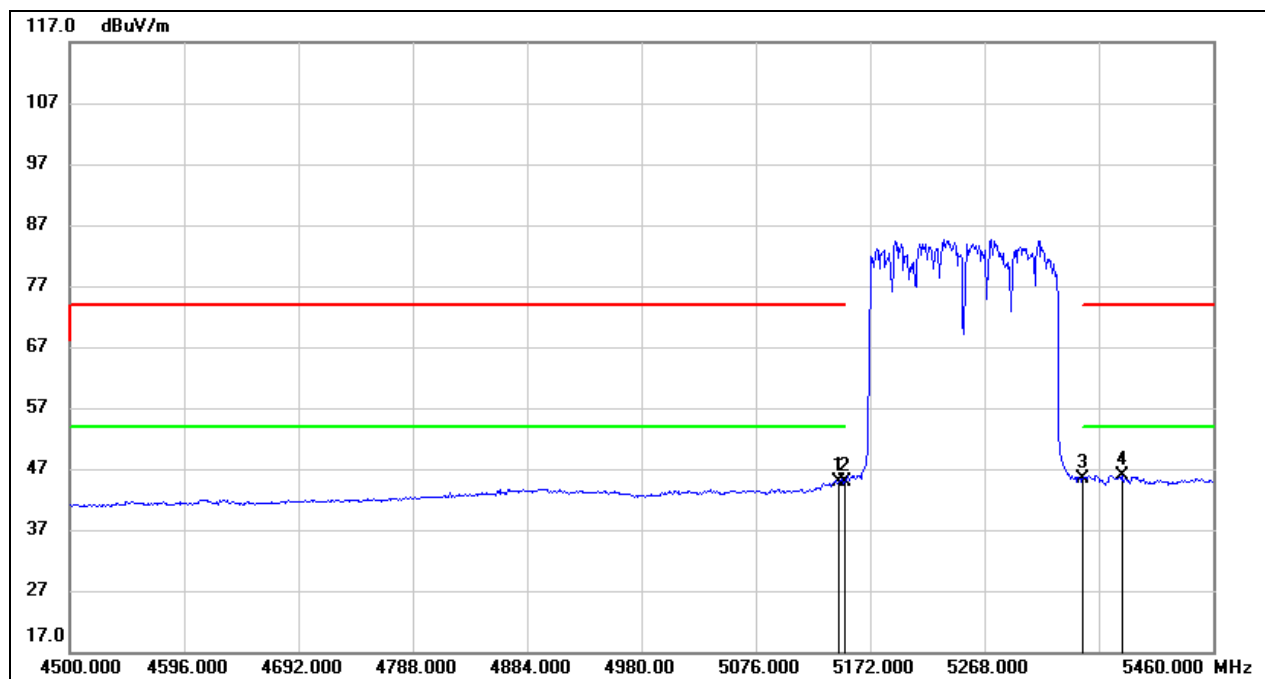
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5640.800	25.13	41.04	66.17	68.20	-2.03	peak
2	5645.600	25.24	41.05	66.29	68.20	-1.91	peak
3	5725.000	47.76	41.27	89.03	122.20	-33.17	peak
4	5850.000	36.74	41.60	78.34	122.20	-43.86	peak
5	5928.400	18.50	41.81	60.31	68.20	-7.89	peak

Test Mode:	802.11ac VHT160 Peak	Channel:	5250 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



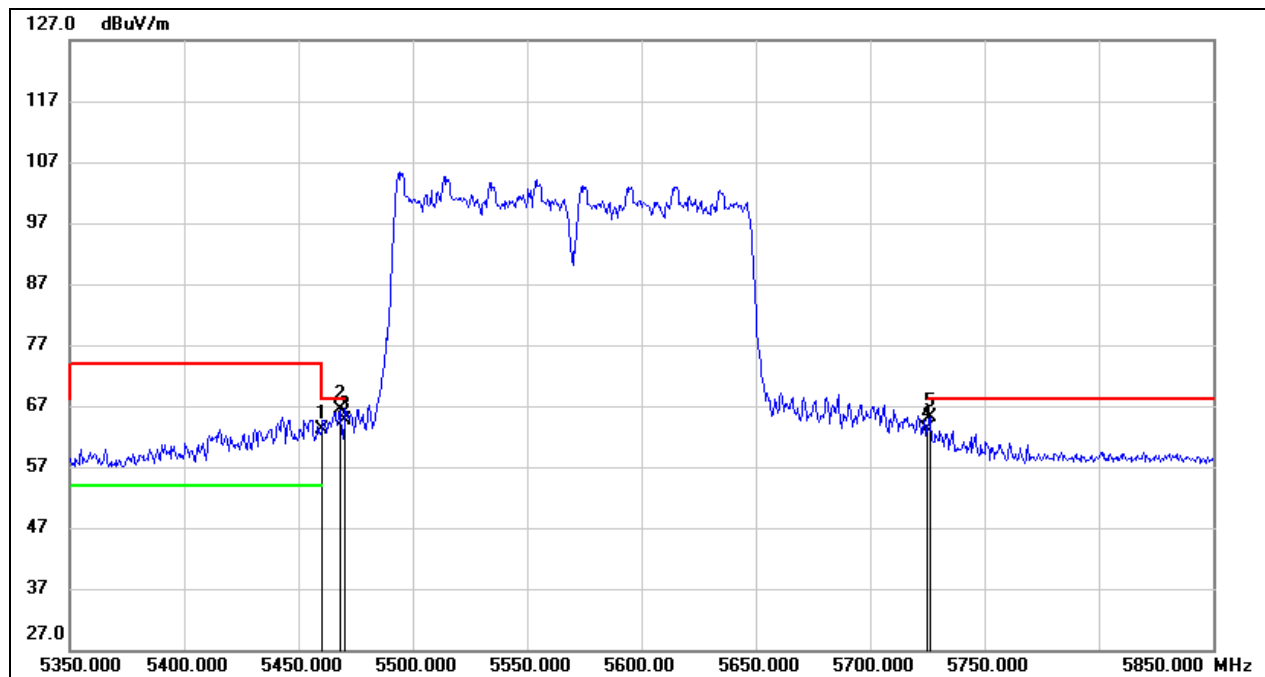
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.080	18.50	40.27	58.77	74.00	-15.23	peak
2	5150.000	17.42	40.27	57.69	74.00	-16.31	peak
3	5350.000	16.95	40.49	57.44	74.00	-16.56	peak
4	5383.200	20.01	40.54	60.55	74.00	-13.45	peak

Test Mode:	802.11ac VHT160 Average	Channel:	5250 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



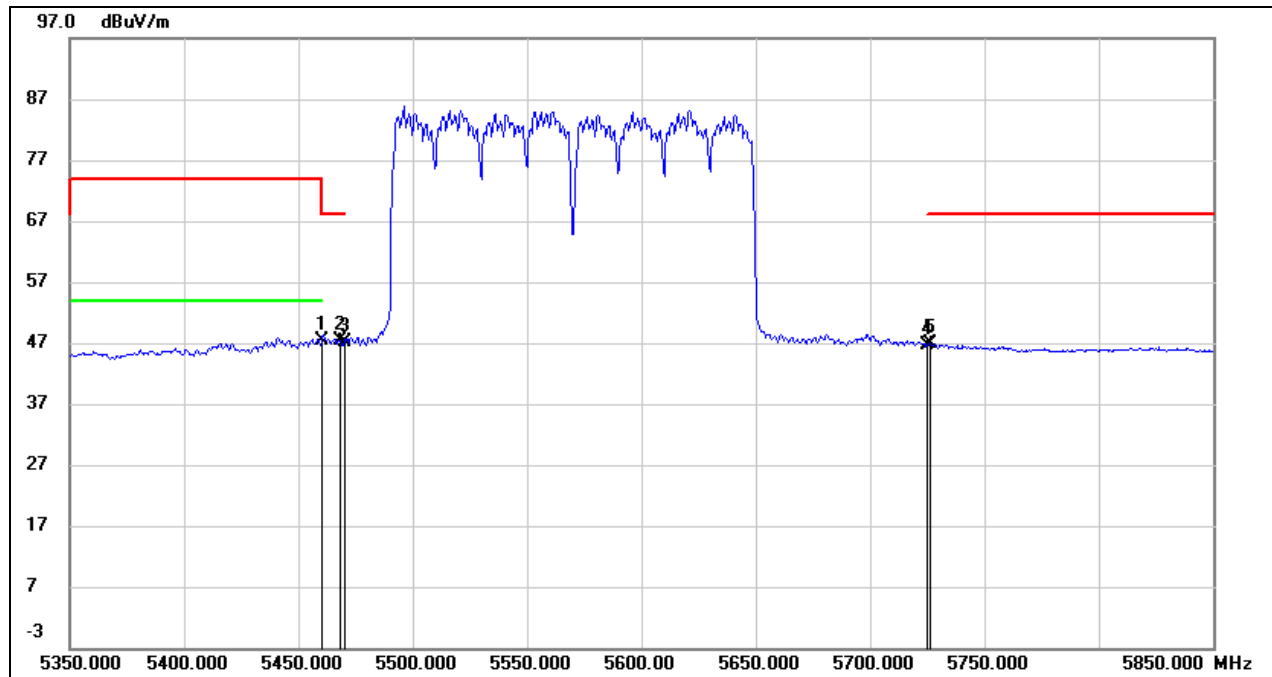
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.080	4.53	40.27	44.80	54.00	-9.20	AVG
2	5150.000	4.65	40.27	44.92	54.00	-9.08	AVG
3	5350.000	4.96	40.49	45.45	54.00	-8.55	AVG
4	5383.200	5.37	40.54	45.91	54.00	-8.09	AVG

Test Mode:	802.11ac VHT160 Peak	Channel:	5570 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



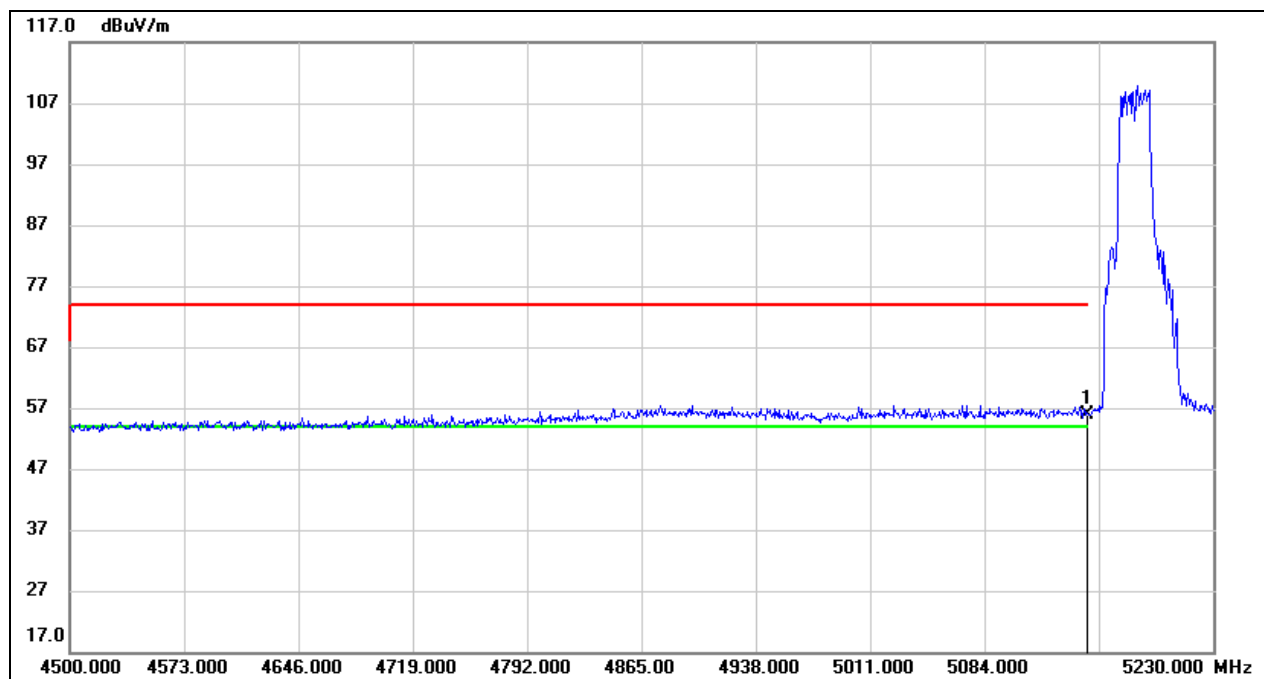
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	22.48	40.62	63.10	68.20	-5.10	peak
2	5468.000	25.79	40.63	66.42	68.20	-1.78	peak
3	5470.000	23.91	40.63	64.54	68.20	-3.66	peak
4	5725.000	21.86	41.27	63.13	68.20	-5.07	peak
5	5726.000	23.79	41.27	65.06	68.20	-3.14	peak

Test Mode:	802.11ac VHT160 Average	Channel:	5570 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



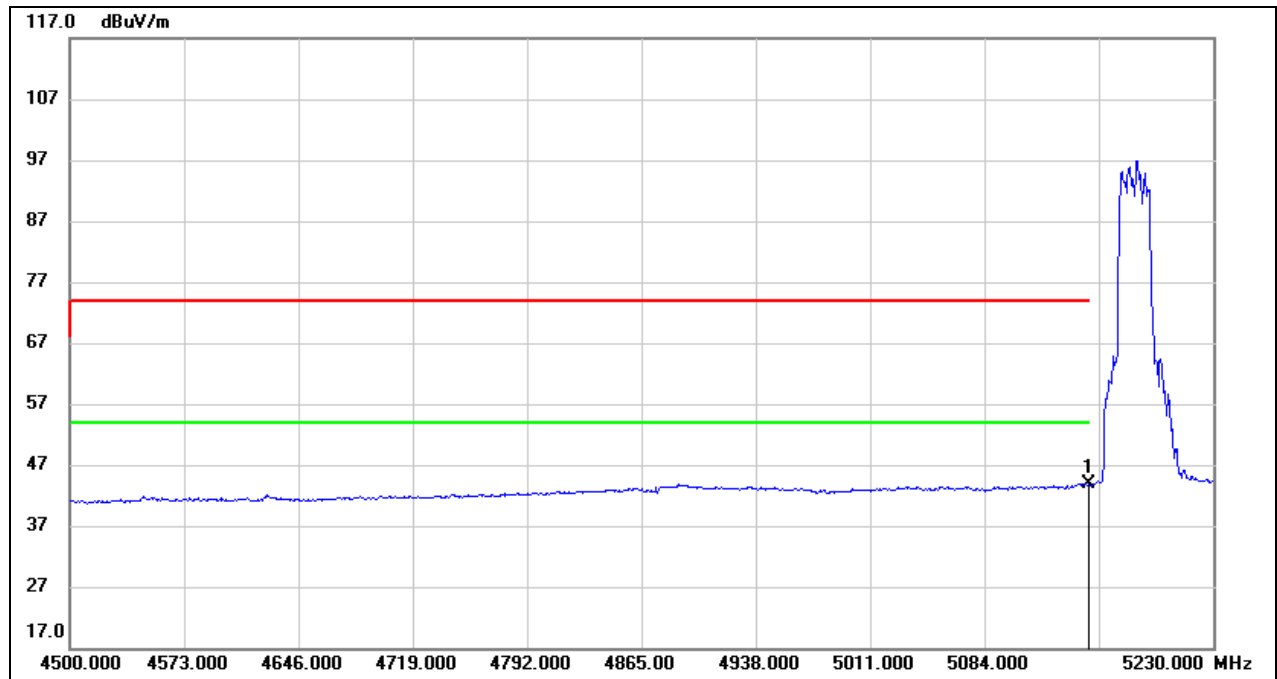
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	6.81	40.62	47.43	54.00	-6.57	AVG
2	5468.000	6.71	40.63	47.34	/	/	AVG
3	5470.000	6.61	40.63	47.24	/	/	AVG
4	5725.000	5.36	41.27	46.63	/	/	AVG
5	5726.000	5.66	41.27	46.93	/	/	AVG

Test Mode:	802.11ax HE20 Peak	Channel:	5180 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



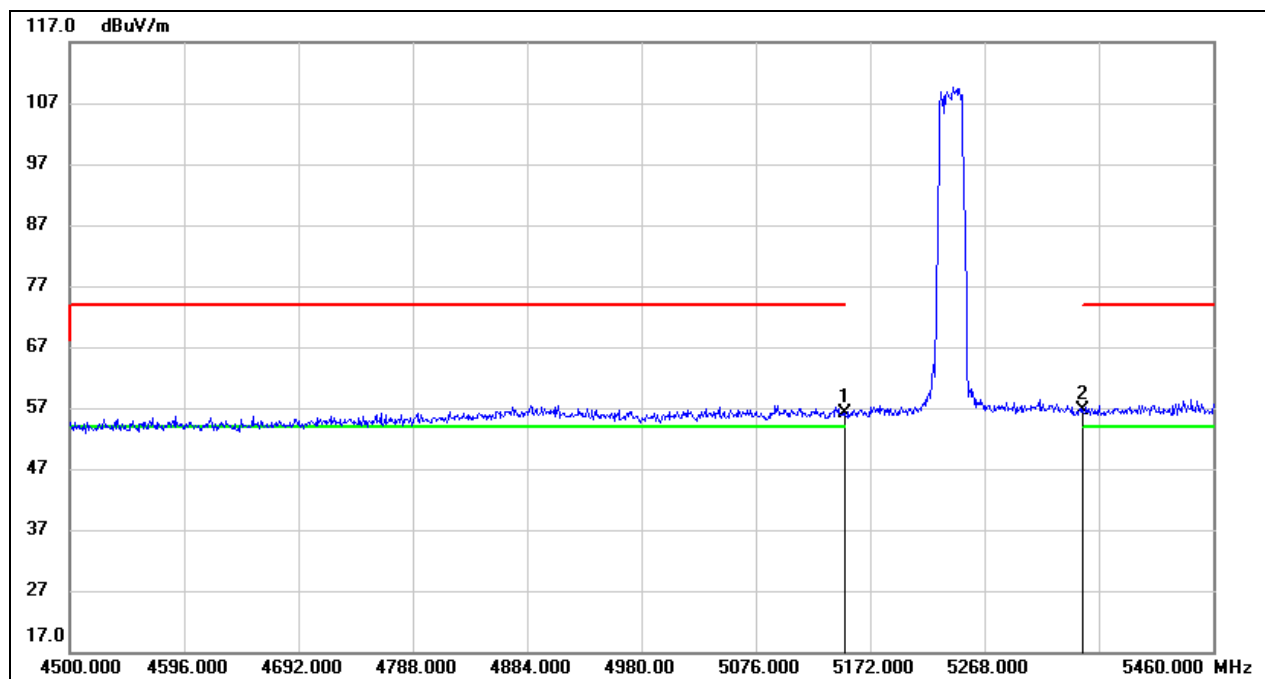
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.57	40.27	55.84	74.00	-18.16	peak

Test Mode:	802.11ax HE20 Average	Channel:	5180 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



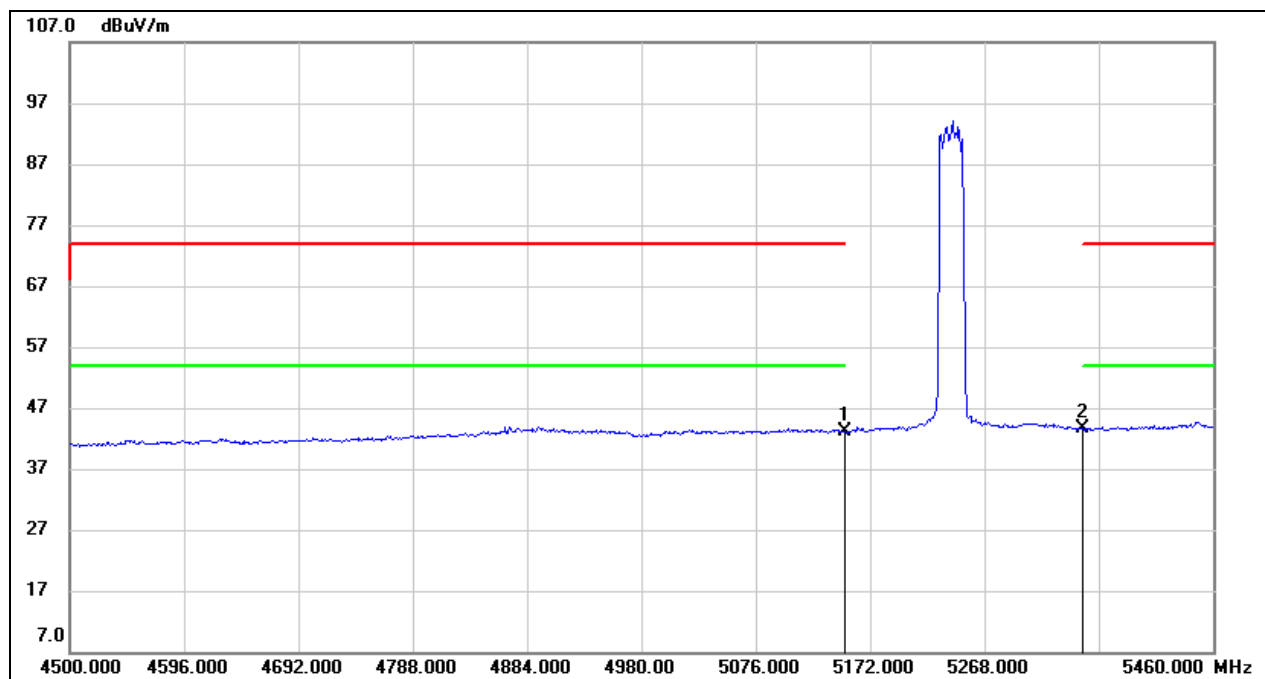
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.54	40.27	43.81	54.00	-10.19	AVG

Test Mode:	802.11ax HE20 Peak	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



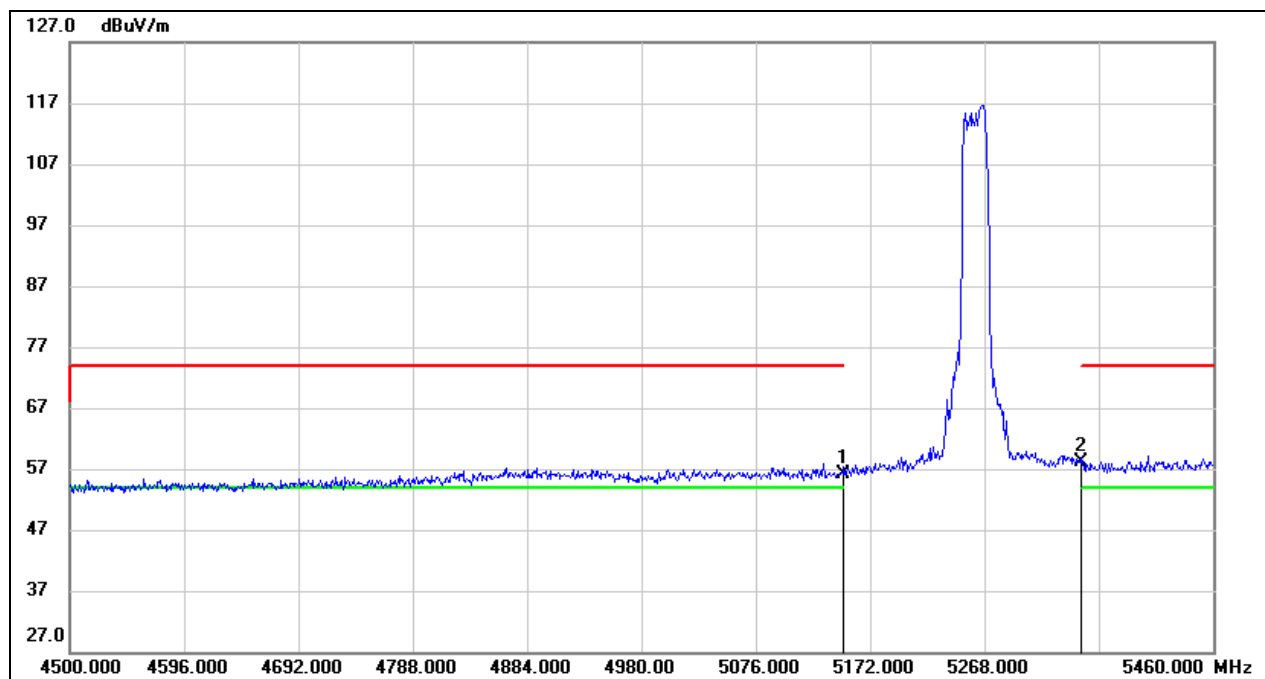
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.90	40.27	56.17	74.00	-17.83	peak
2	5350.000	16.02	40.49	56.51	74.00	-17.49	peak

Test Mode:	802.11ax HE20 Average	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



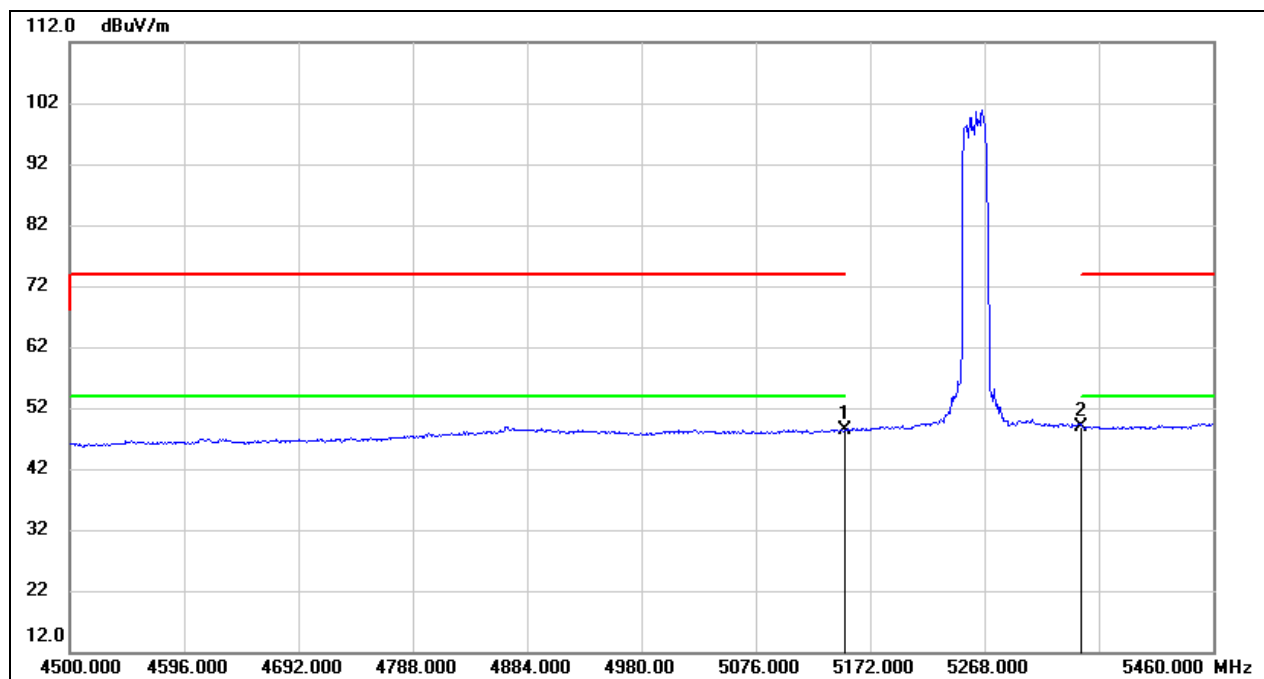
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	2.88	40.27	43.15	54.00	-10.85	AVG
2	5350.000	3.12	40.49	43.61	54.00	-10.39	AVG

Test Mode:	802.11ax HE20 Peak	Channel:	5260 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



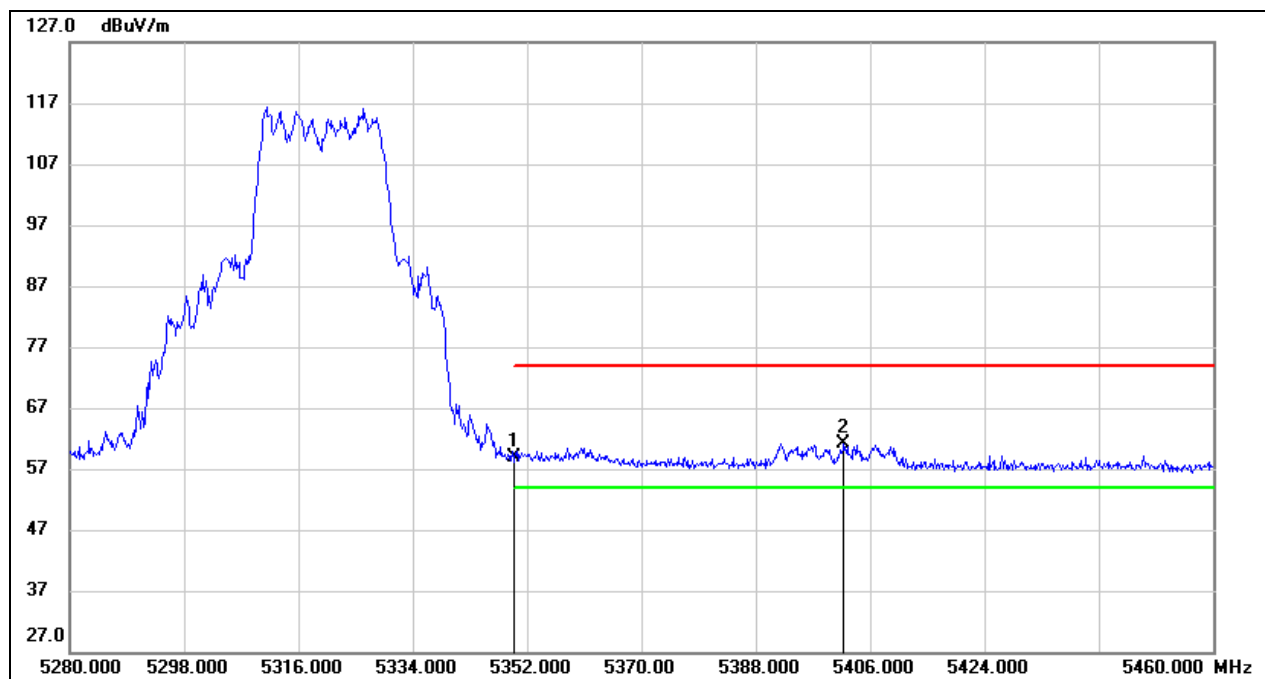
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	15.92	40.27	56.19	74.00	-17.81	peak
2	5350.000	17.69	40.49	58.18	74.00	-15.82	peak

Test Mode:	802.11ax HE20 Average	Channel:	5260 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



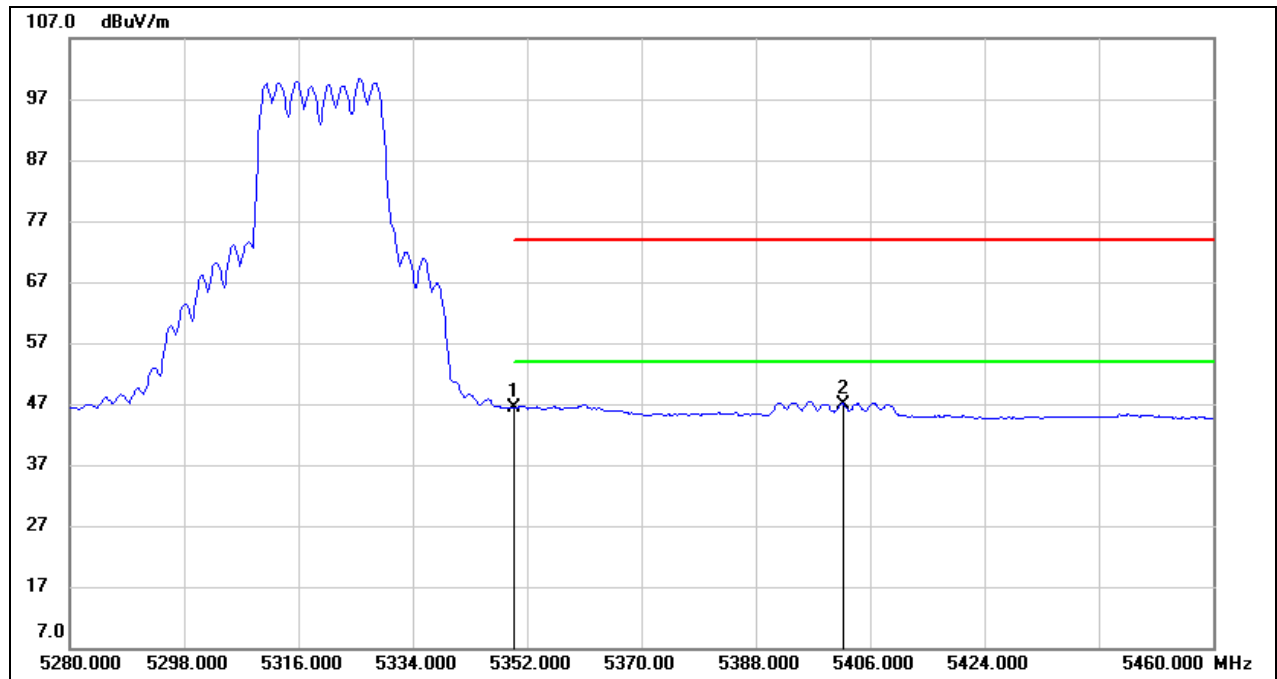
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	8.19	40.27	48.46	54.00	-5.54	AVG
2	5350.000	8.49	40.49	48.98	54.00	-5.02	AVG

Test Mode:	802.11ax HE20 Peak	Channel:	5320 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



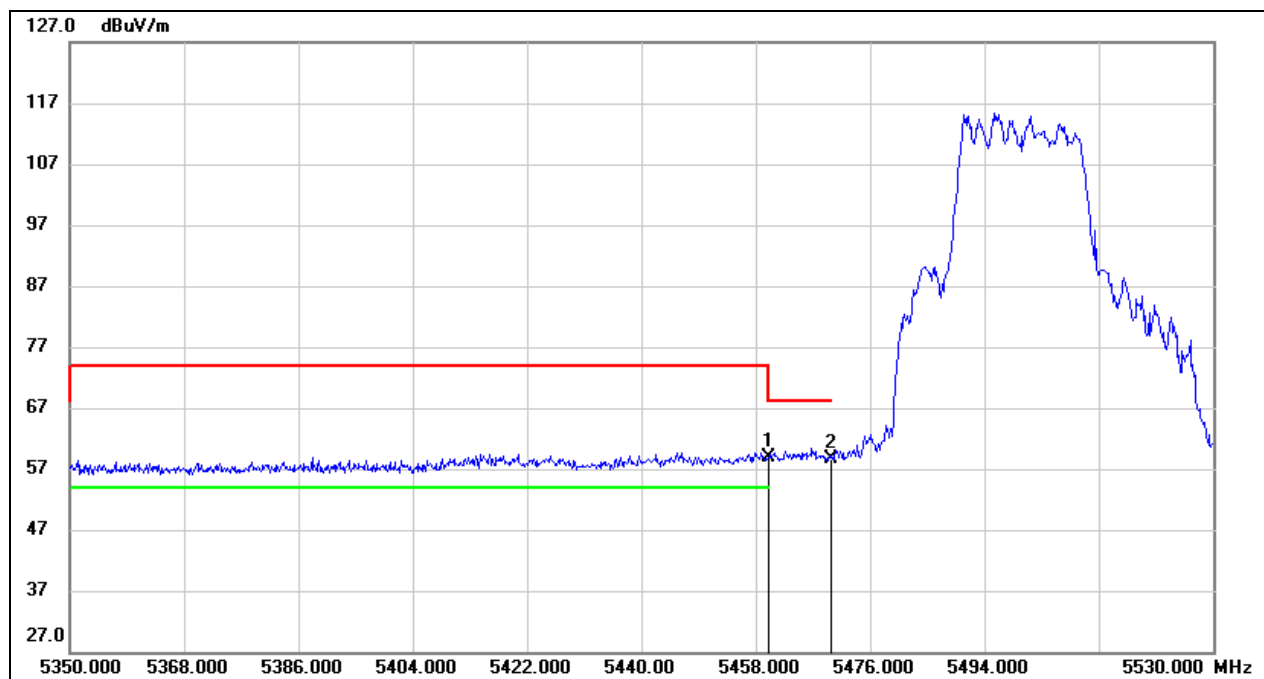
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	18.35	40.49	58.84	74.00	-15.16	peak
2	5401.860	20.53	40.55	61.08	74.00	-12.92	peak

Test Mode:	802.11ax HE20 Average	Channel:	5320 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



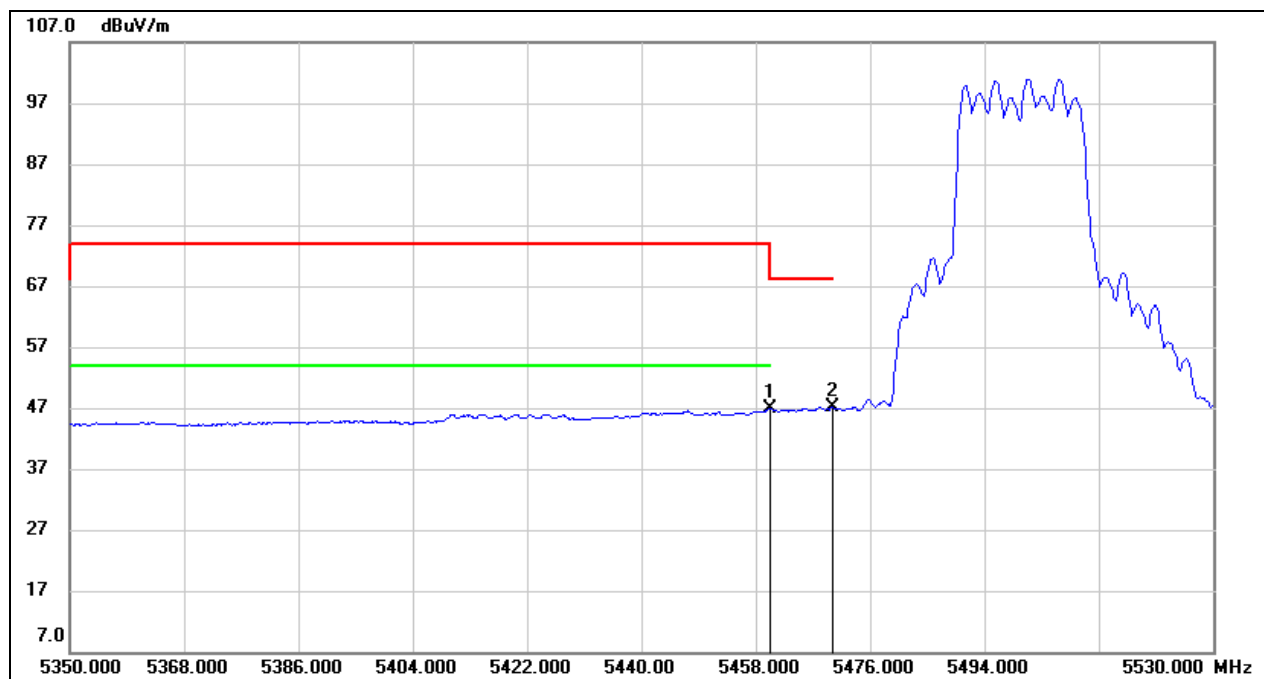
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	5.79	40.49	46.28	54.00	-7.72	AVG
2	5401.860	6.40	40.55	46.95	54.00	-7.05	AVG

Test Mode:	802.11ax HE20 Peak	Channel:	5500 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



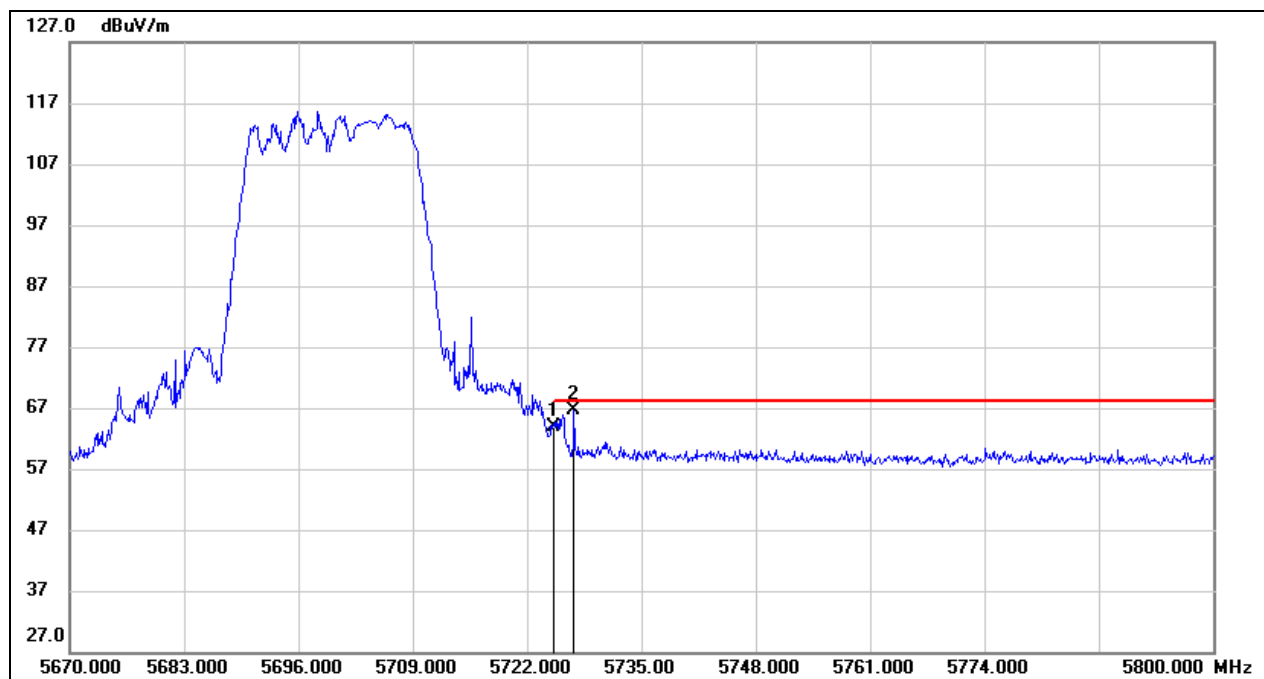
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	18.17	40.62	58.79	68.20	-9.41	peak
2	5470.000	18.05	40.63	58.68	68.20	-9.52	peak

Test Mode:	802.11ax HE20 Average	Channel:	5500 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



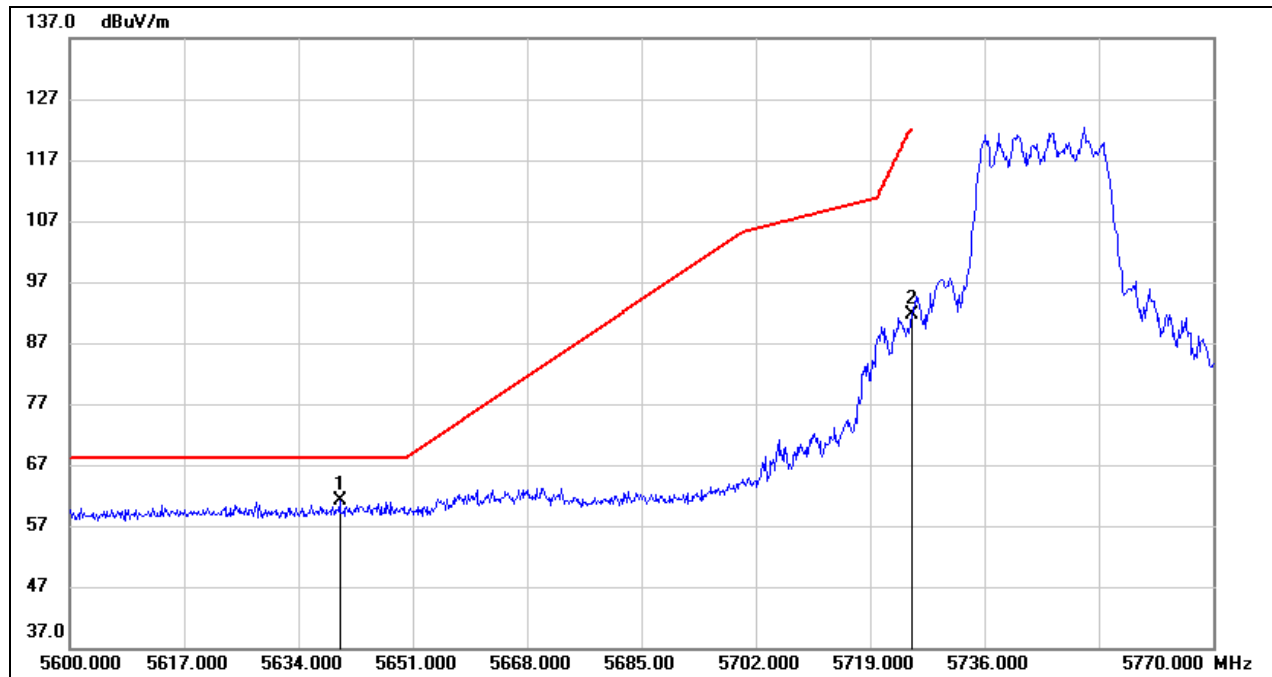
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	6.33	40.62	46.95	54.00	-7.05	AVG
2	5470.000	6.42	40.63	47.05	/	/	AVG

Test Mode:	802.11ax HE20 Peak	Channel:	5700 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



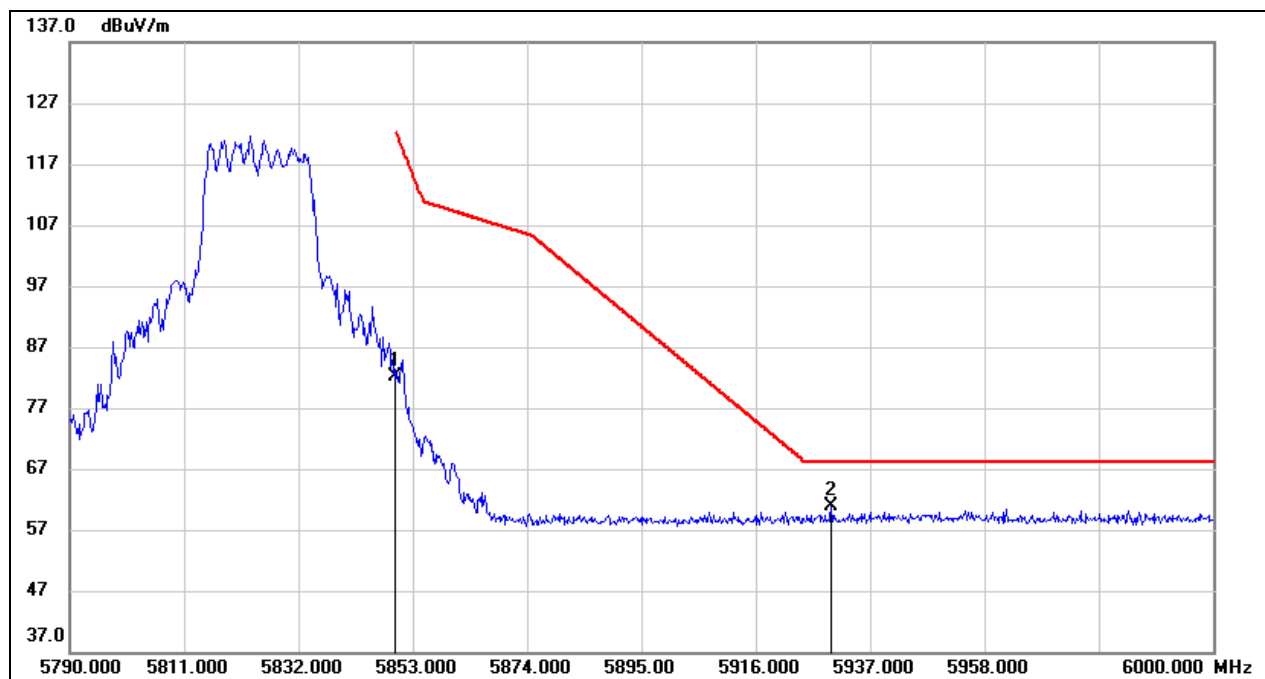
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	22.53	41.27	63.80	68.20	-4.40	peak
2	5727.330	25.44	41.27	66.71	68.20	-1.49	peak

Test Mode:	802.11ax HE20 Peak	Channel:	5745 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



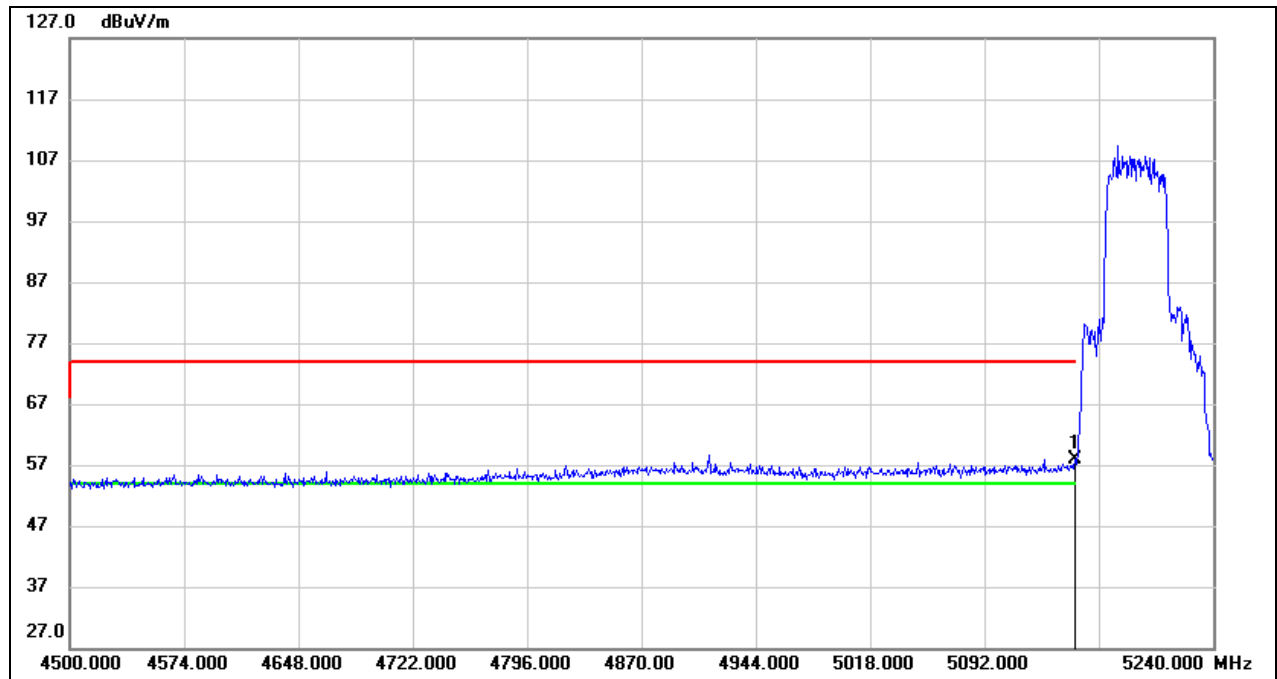
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5640.120	20.00	41.04	61.04	68.20	-7.16	peak
2	5725.000	50.40	41.27	91.67	122.20	-30.53	peak

Test Mode:	802.11ax HE20 Peak	Channel:	5825 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



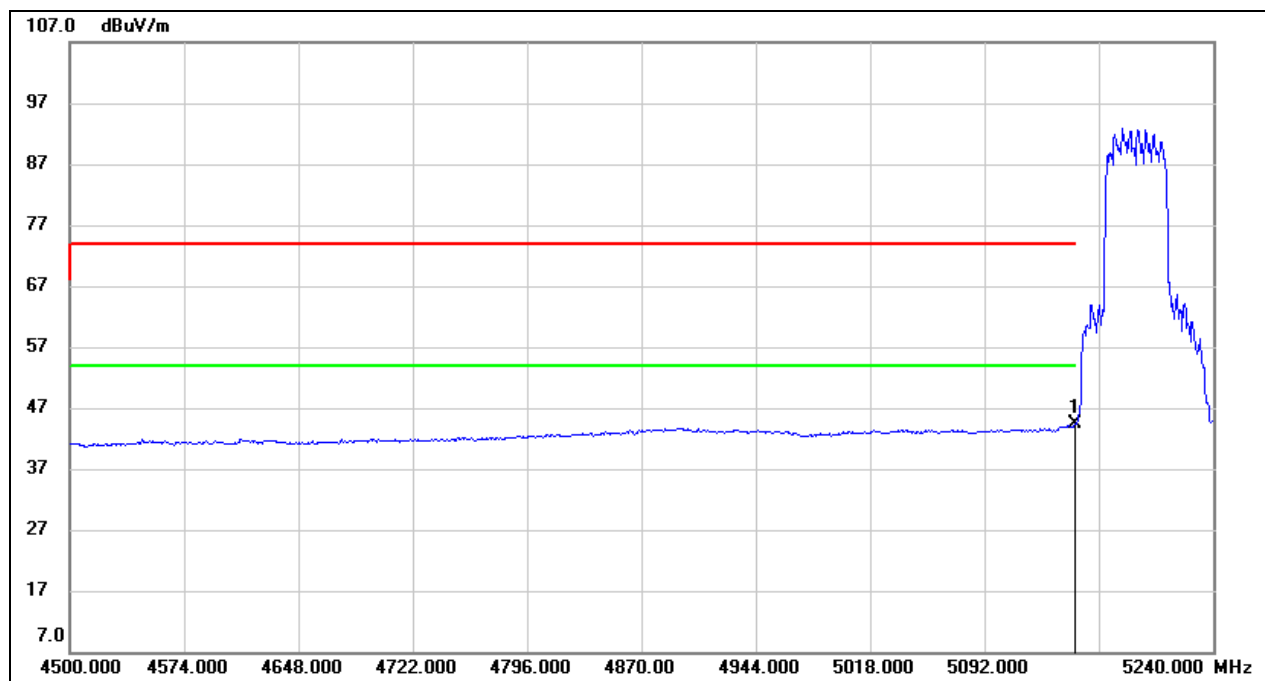
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	40.55	41.60	82.15	122.20	-40.05	peak
2	5929.860	18.99	41.81	60.80	68.20	-7.40	peak

Test Mode:	802.11ax HE40 Peak	Channel:	5190 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



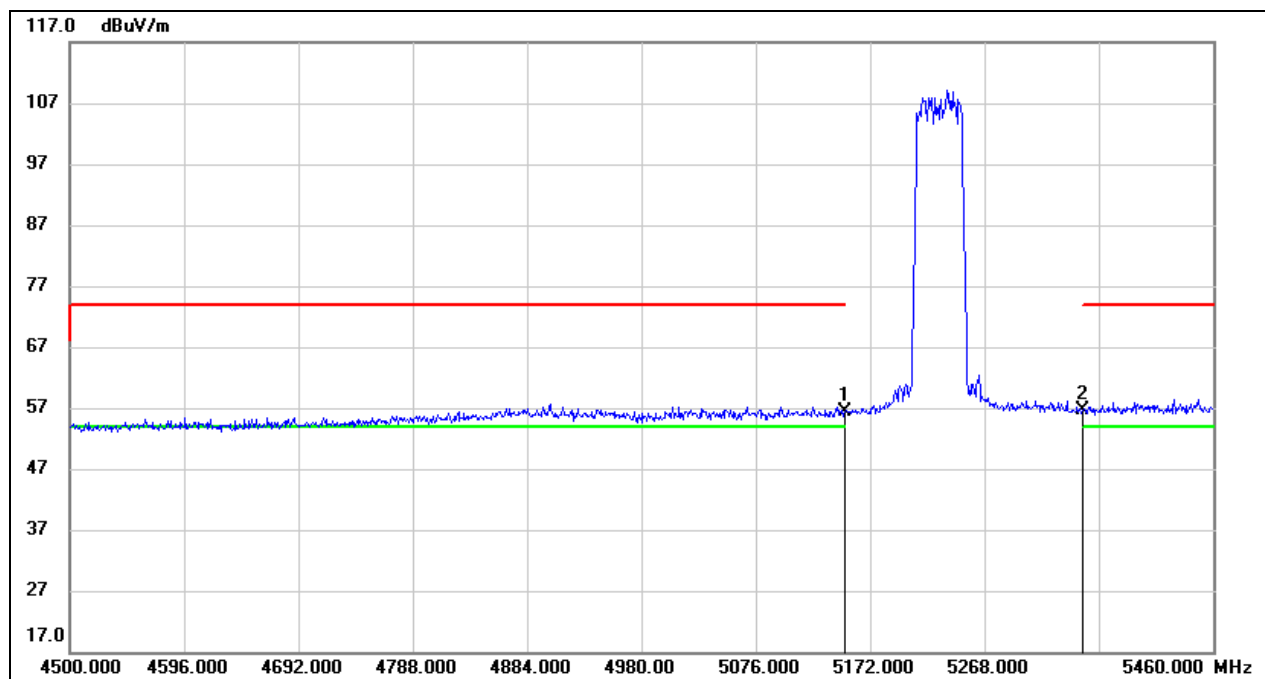
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	17.70	40.27	57.97	74.00	-16.03	peak

Test Mode:	802.11ax HE40 Average	Channel:	5190 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



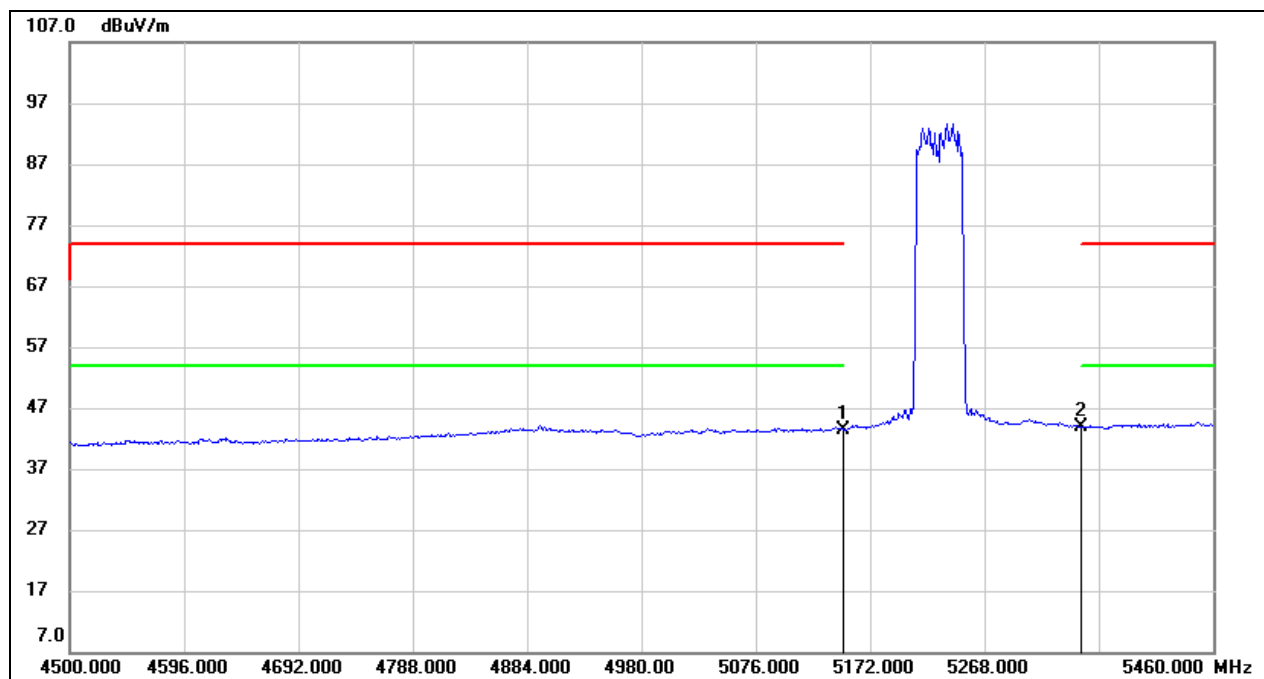
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	4.00	40.27	44.27	54.00	-9.73	AVG

Test Mode:	802.11ax HE40 Peak	Channel:	5230 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



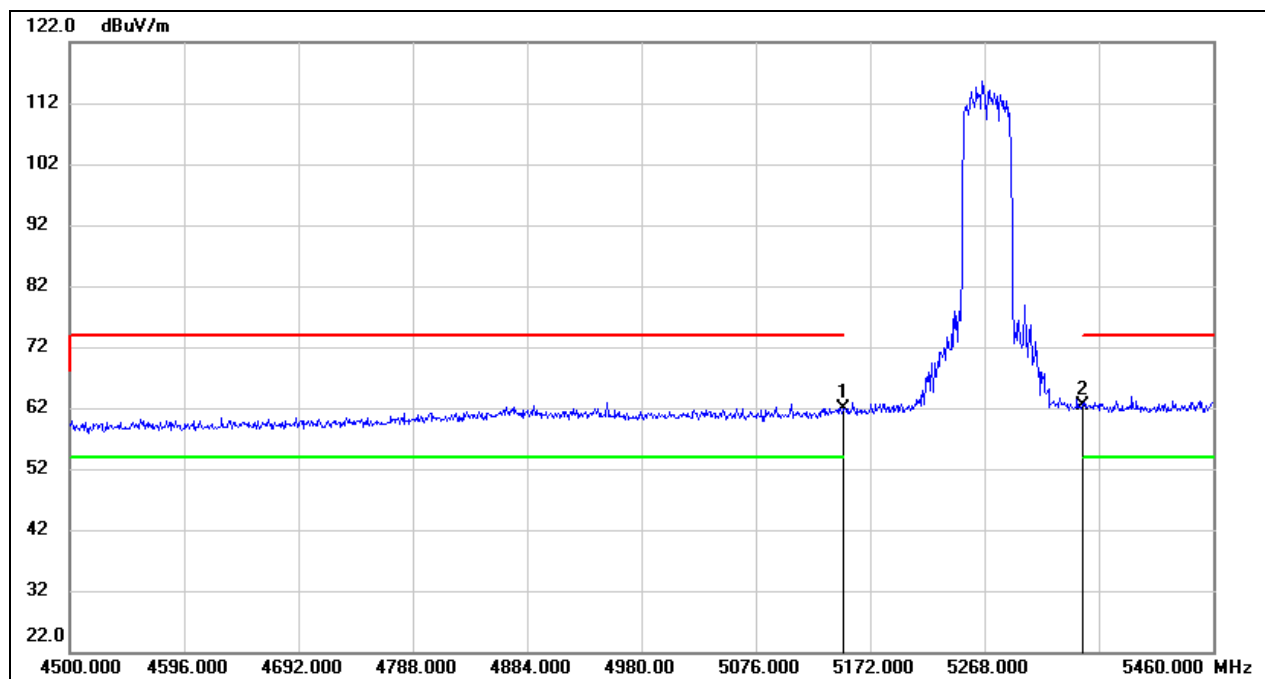
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	16.19	40.27	56.46	74.00	-17.54	peak
2	5350.000	16.02	40.49	56.51	74.00	-17.49	peak

Test Mode:	802.11ax HE40 Average	Channel:	5230 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



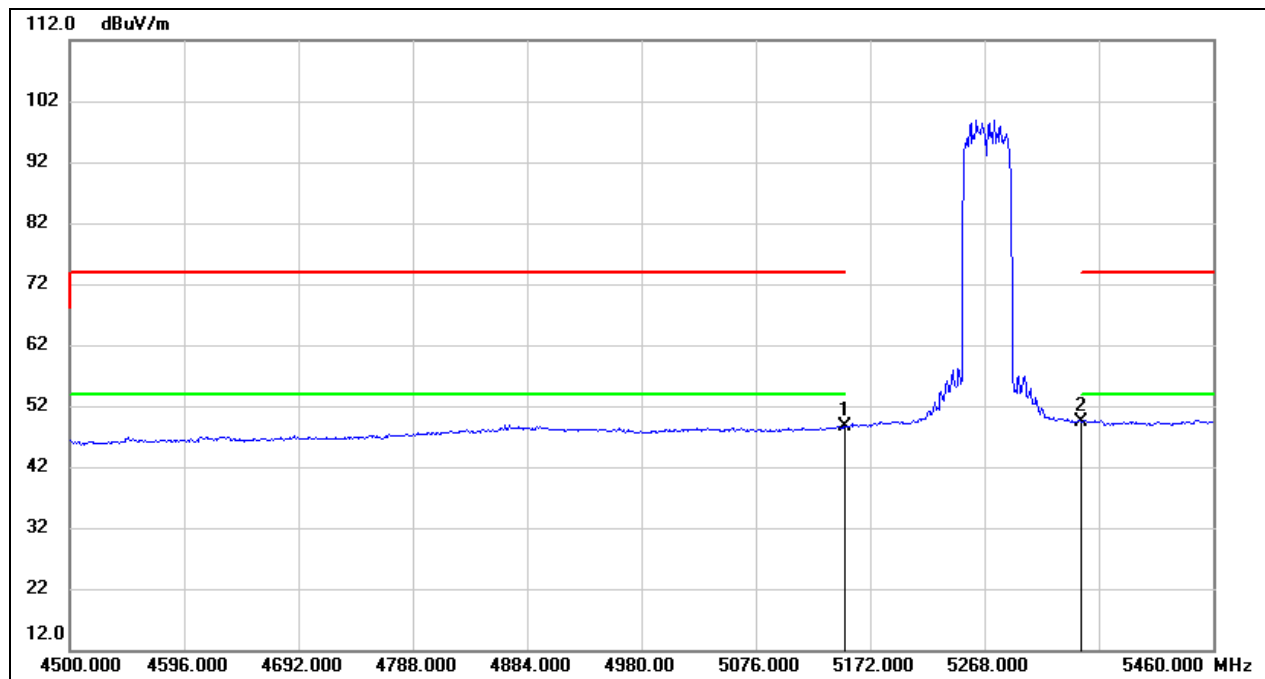
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	3.22	40.27	43.49	54.00	-10.51	AVG
2	5350.000	3.44	40.49	43.93	54.00	-10.07	AVG

Test Mode:	802.11ax HE40 Peak	Channel:	5270 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



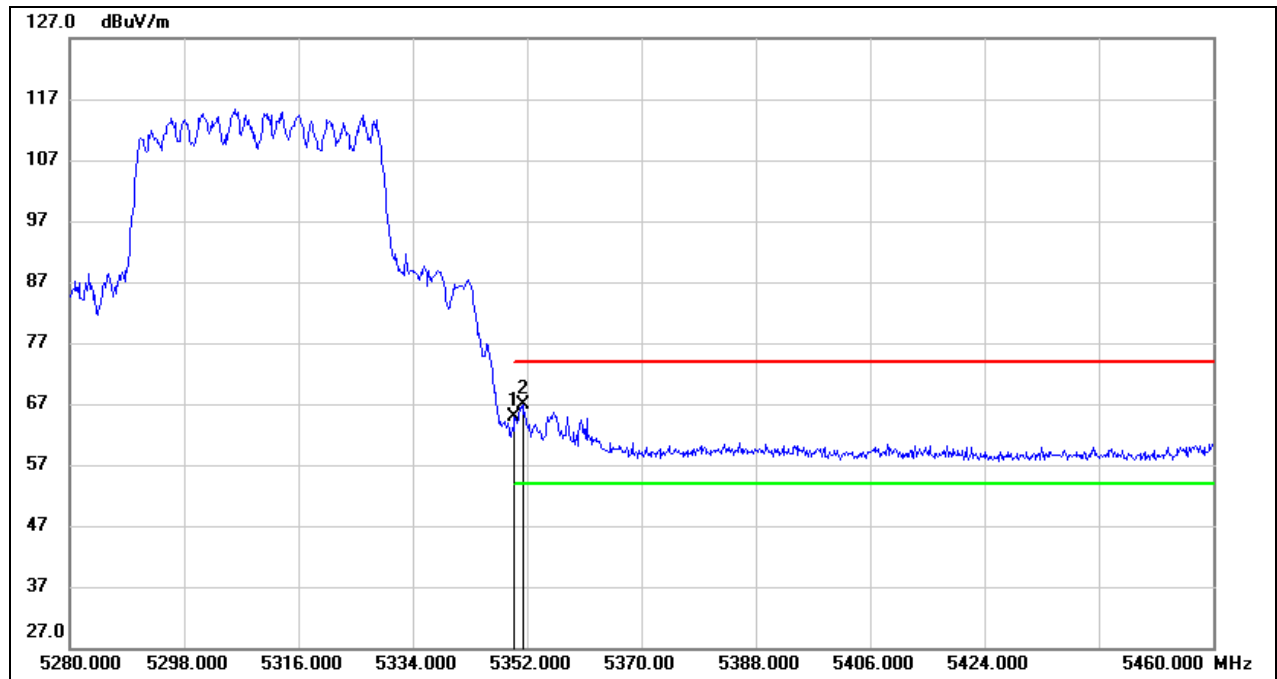
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	21.51	40.27	61.78	74.00	-12.22	peak
2	5350.000	21.77	40.49	62.26	74.00	-11.74	peak

Test Mode:	802.11ax HE40 Average	Channel:	5270 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



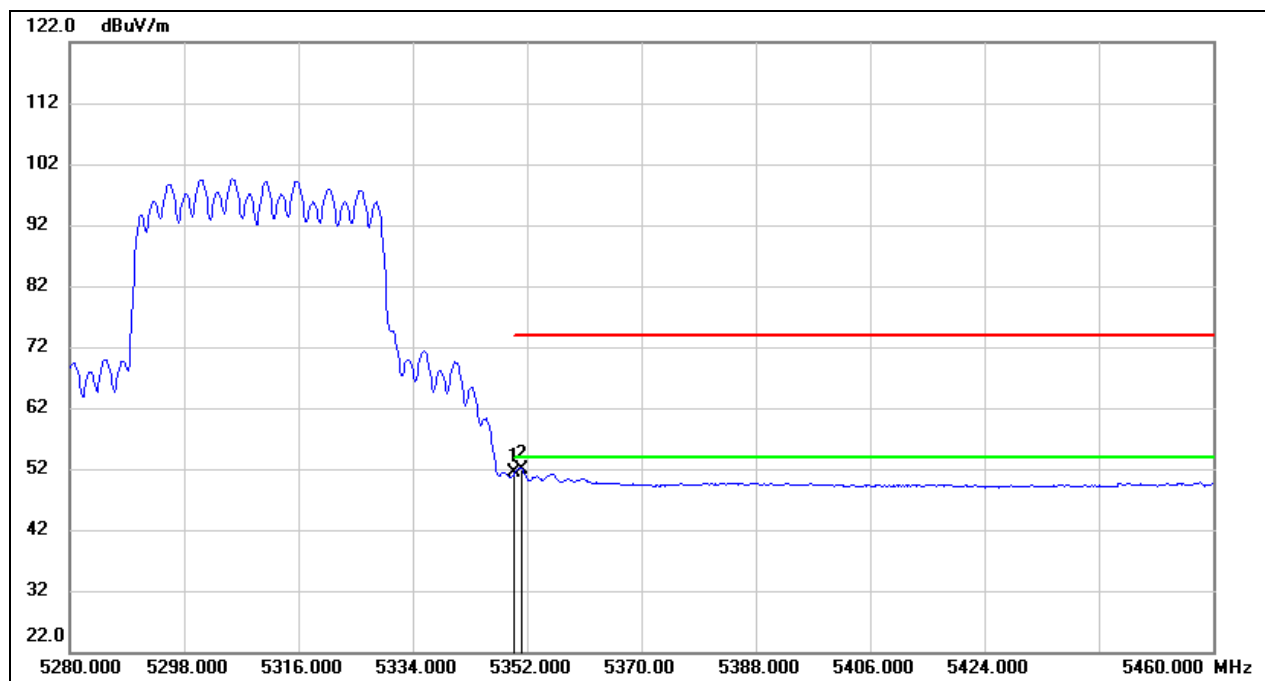
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	8.29	40.27	48.56	54.00	-5.44	AVG
2	5350.000	8.90	40.49	49.39	54.00	-4.61	AVG

Test Mode:	802.11ax HE40 Peak	Channel:	5310 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



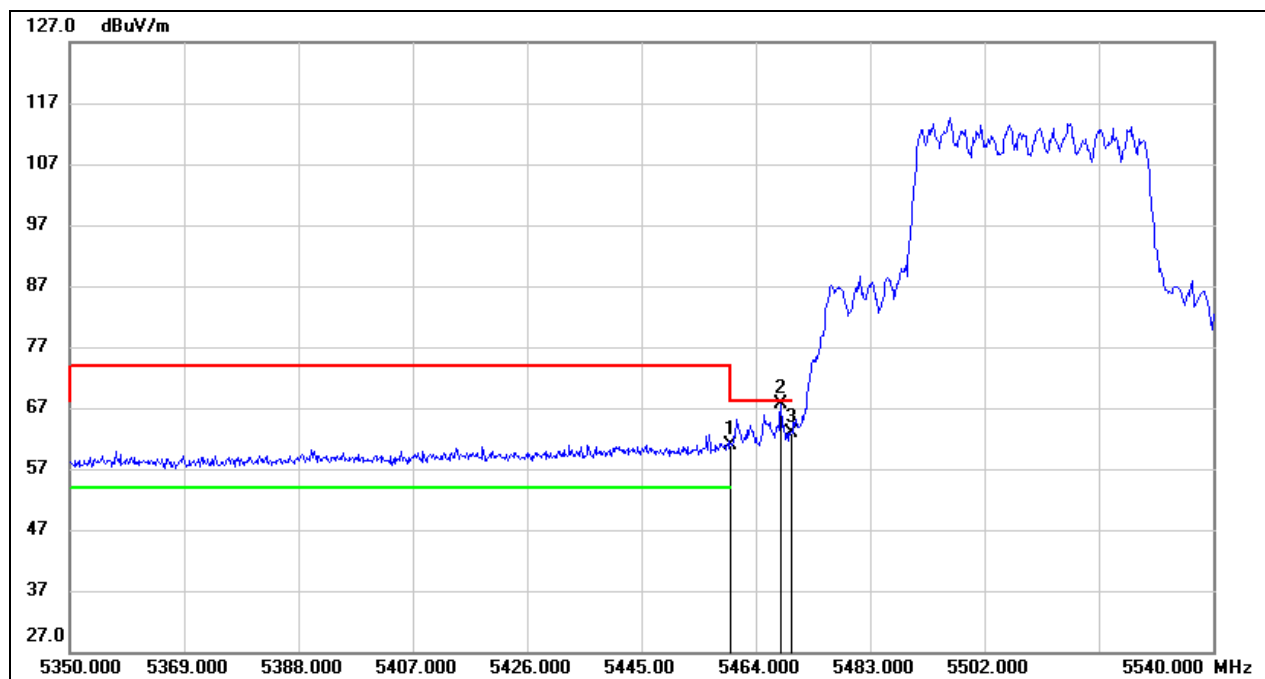
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	24.36	40.49	64.85	74.00	-9.15	peak
2	5351.280	26.51	40.49	67.00	74.00	-7.00	peak

Test Mode:	802.11ax HE40 Average	Channel:	5310 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



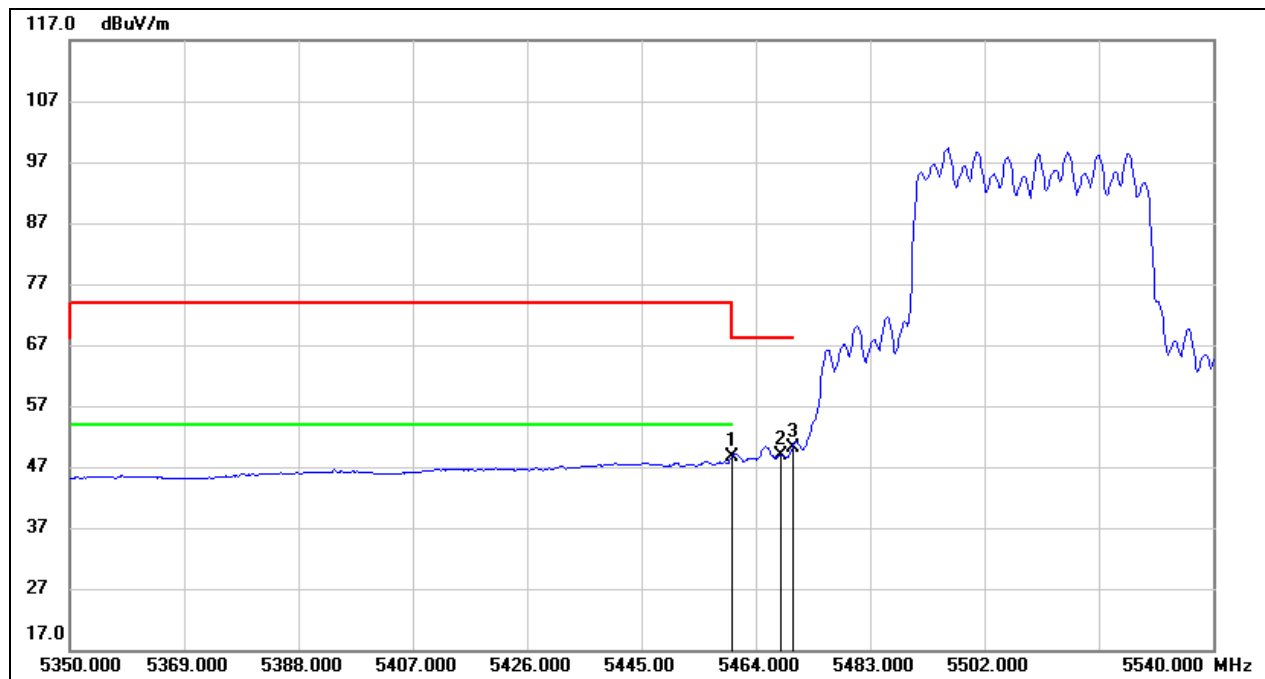
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	10.89	40.49	51.38	54.00	-2.62	AVG
2	5351.280	11.34	40.49	51.83	54.00	-2.17	AVG

Test Mode:	802.11ax HE40 Peak	Channel:	5510 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



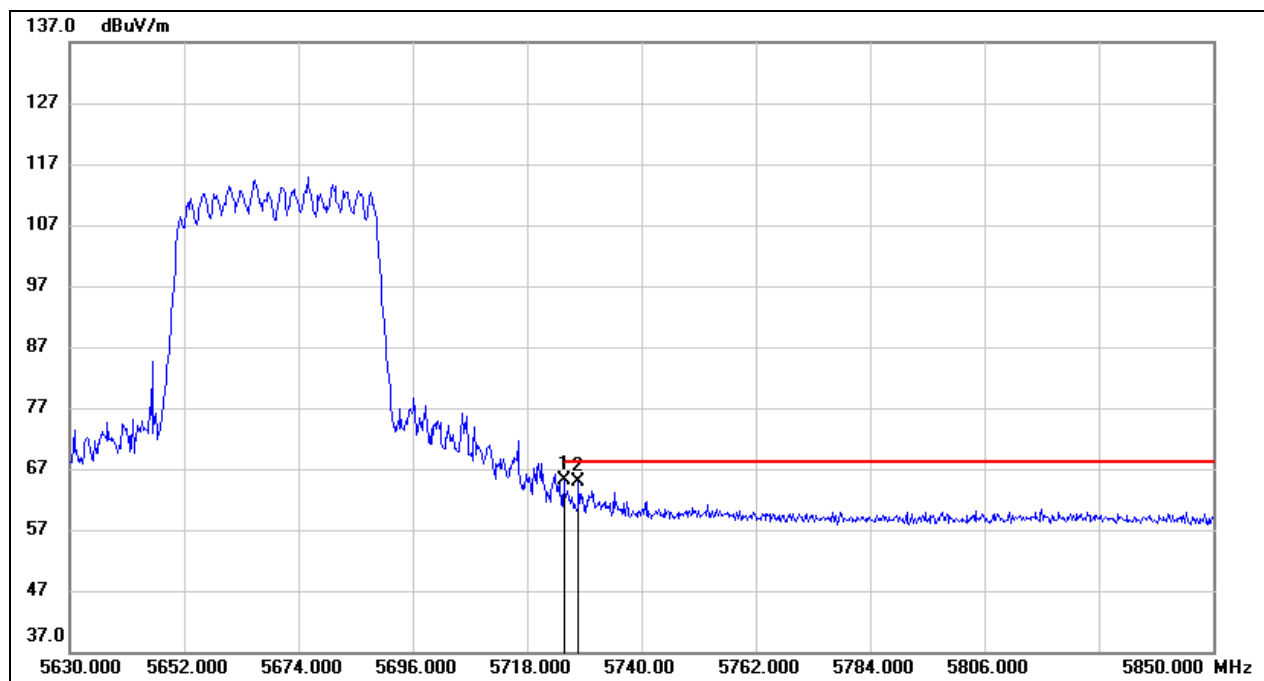
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	20.38	40.62	61.00	68.20	-7.20	peak
2	5468.180	27.01	40.63	67.64	68.20	-0.56	peak
3	5470.000	22.32	40.63	62.95	68.20	-5.25	peak

Test Mode:	802.11ax HE40 Average	Channel:	5510 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



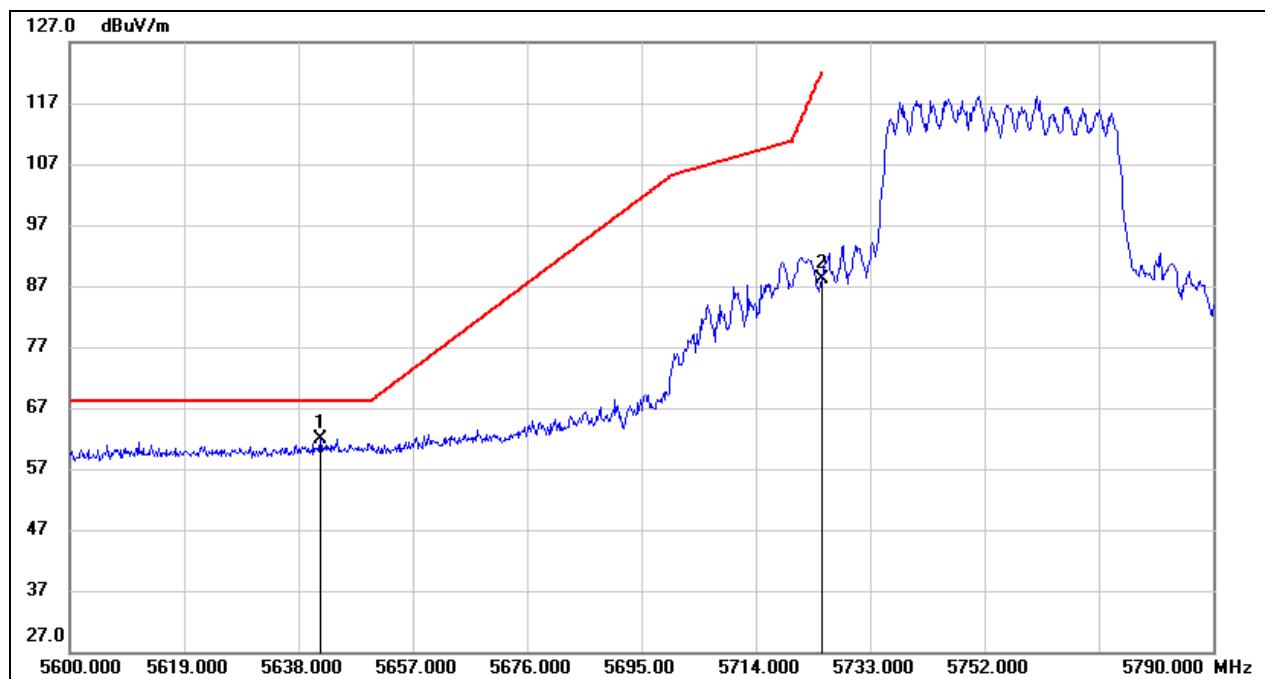
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	8.05	40.62	48.67	54.00	-5.33	AVG
2	5468.180	8.35	40.63	48.98	/	/	AVG
3	5470.000	9.59	40.63	50.22	/	/	AVG

Test Mode:	802.11ax HE40 Peak	Channel:	5670 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



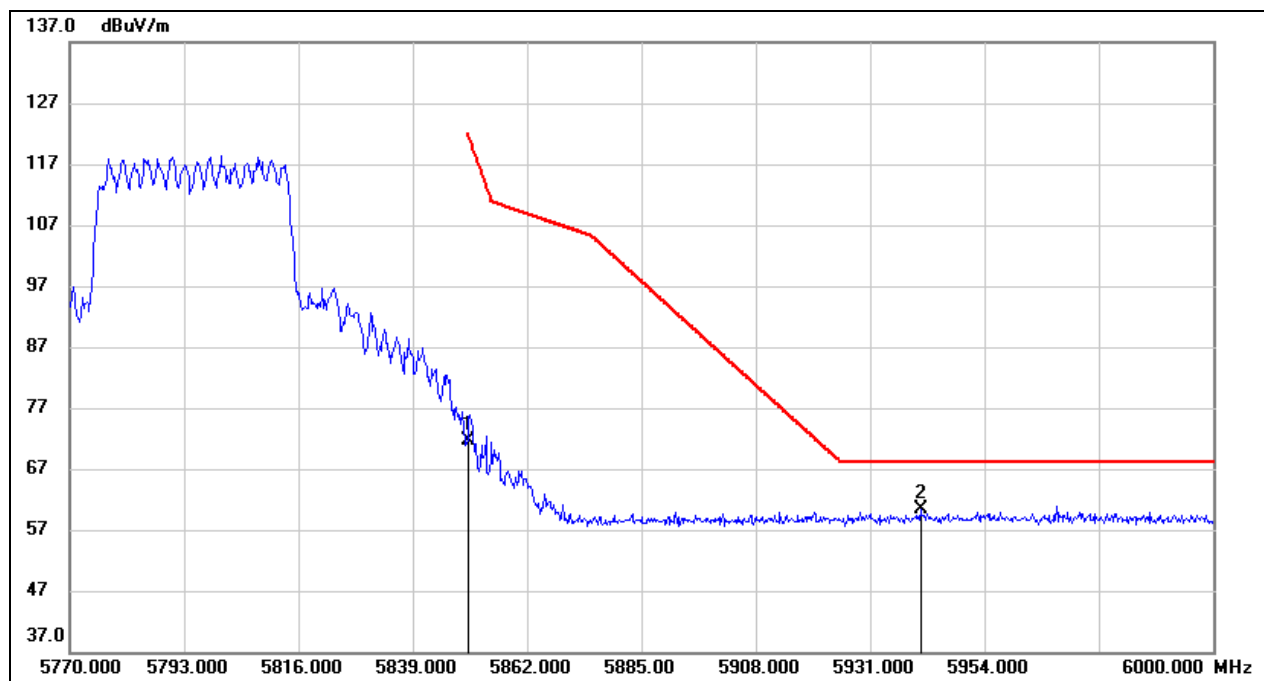
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	23.78	41.27	65.05	68.20	-3.15	peak
2	5727.900	23.72	41.27	64.99	68.20	-3.21	peak

Test Mode:	802.11ax HE40 Peak	Channel:	5755 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



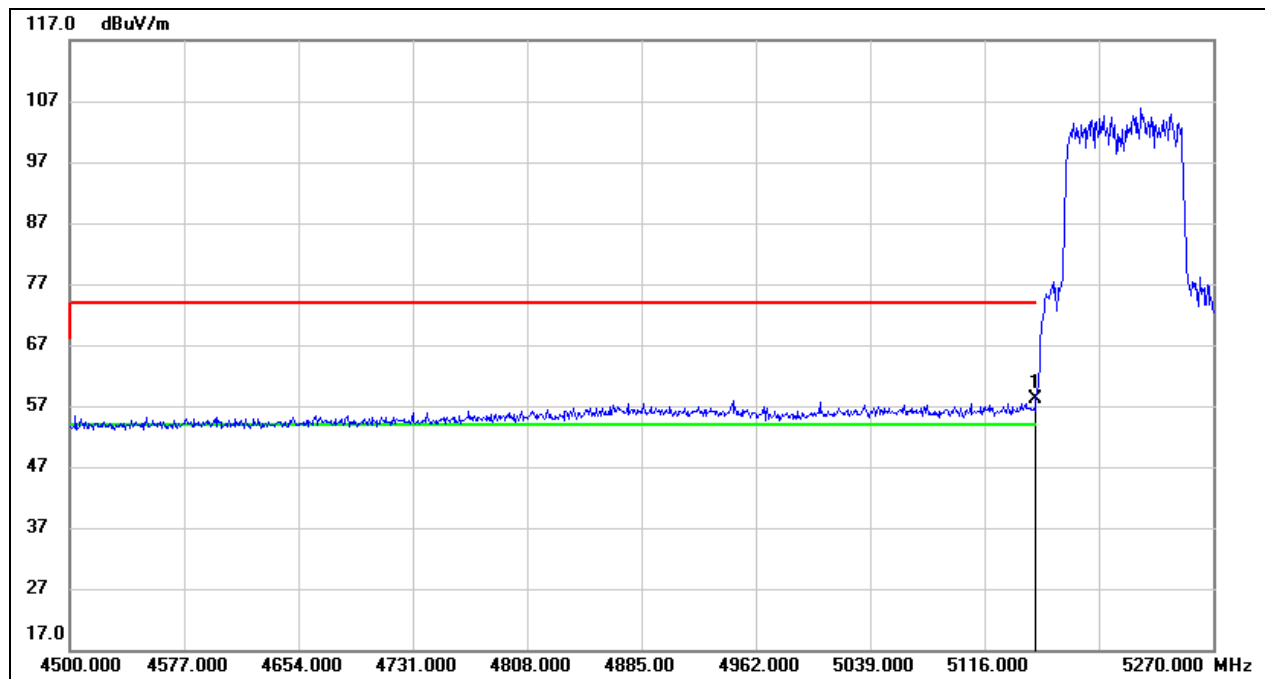
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5641.610	20.82	41.04	61.86	68.20	-6.34	peak
2	5725.000	46.97	41.27	88.24	122.20	-33.96	peak

Test Mode:	802.11ax HE40 Peak	Channel:	5795 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



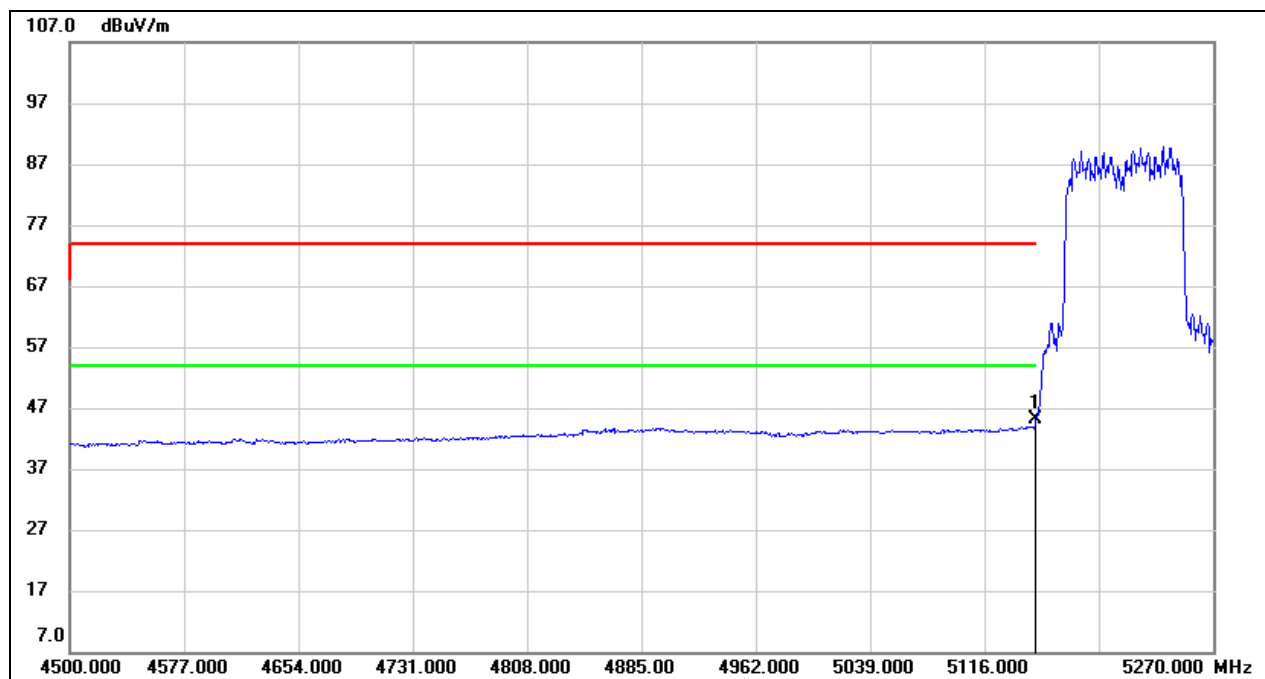
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	30.11	41.60	71.71	122.20	-50.49	peak
2	5941.120	18.48	41.84	60.32	68.20	-7.88	peak

Test Mode:	802.11ax HE80 Peak	Channel:	5210 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



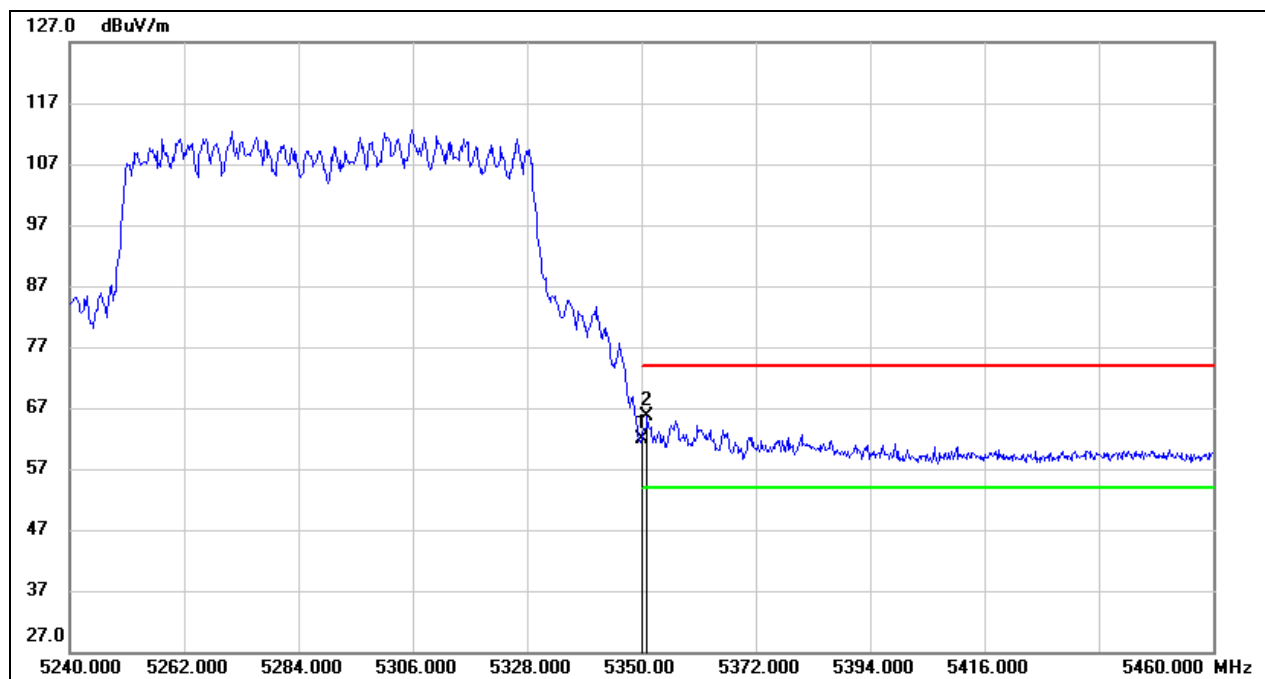
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	17.82	40.27	58.09	74.00	-15.91	peak

Test Mode:	802.11ax HE80 Average	Channel:	5210 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



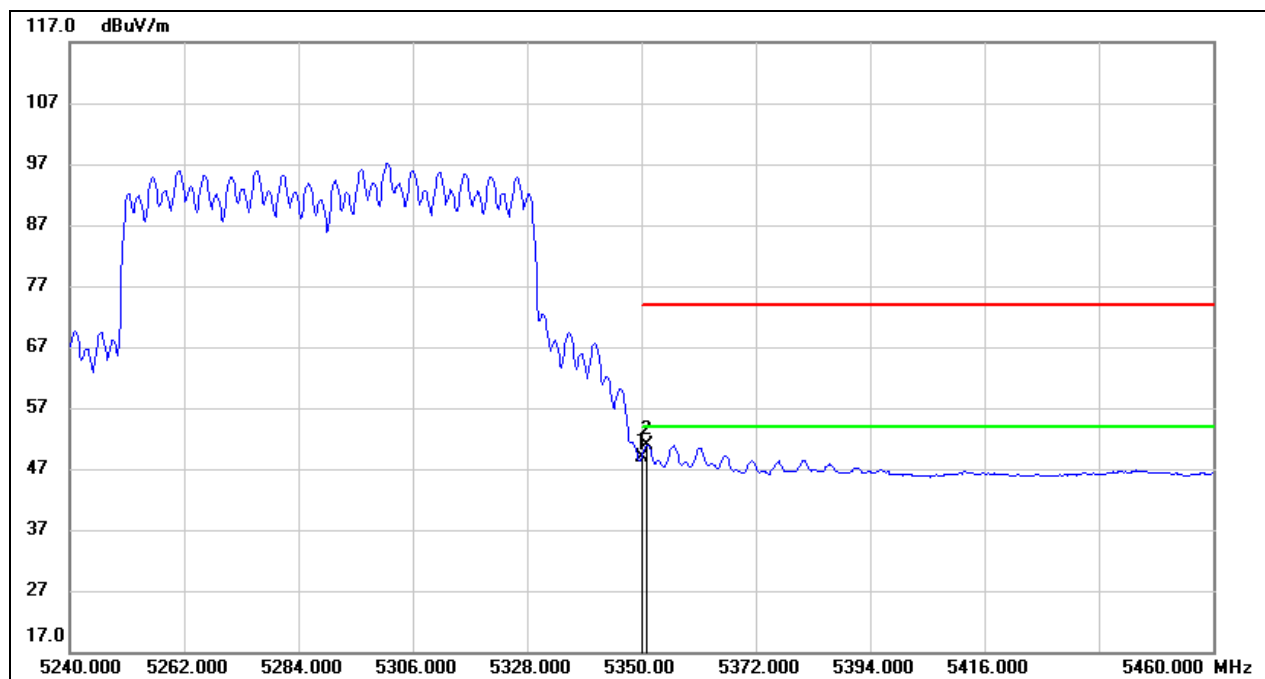
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	4.74	40.27	45.01	54.00	-8.99	AVG

Test Mode:	802.11ax HE80 Peak	Channel:	5290 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



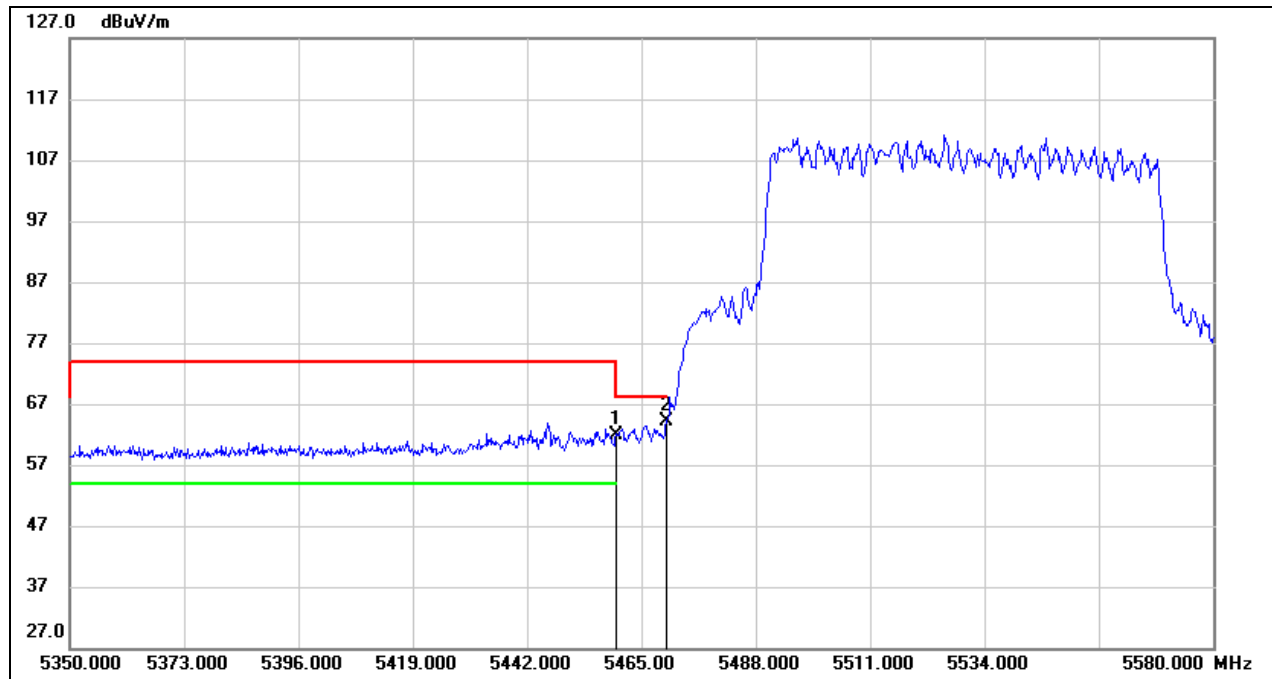
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	21.39	40.49	61.88	74.00	-12.12	peak
2	5351.100	25.05	40.49	65.54	74.00	-8.46	peak

Test Mode:	802.11ax HE80 Average	Channel:	5290 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



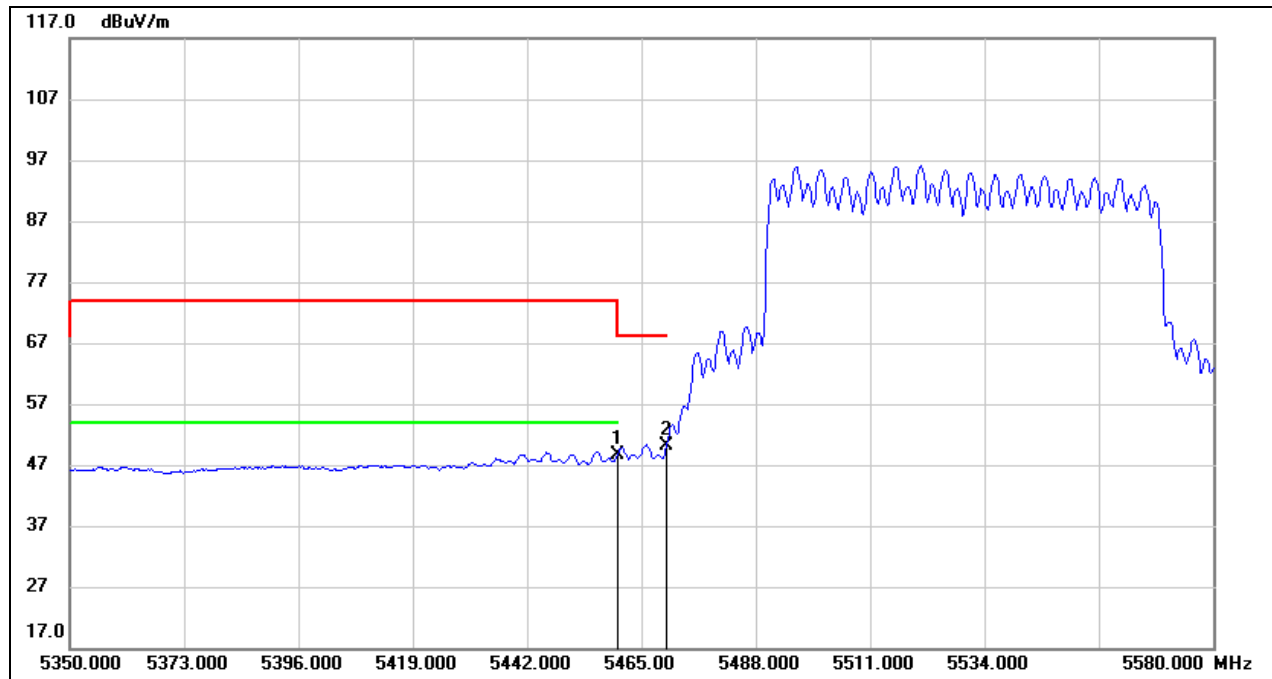
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	8.29	40.49	48.78	54.00	-5.22	AVG
2	5351.100	10.38	40.49	50.87	54.00	-3.13	AVG

Test Mode:	802.11ax HE80 Peak	Channel:	5530 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



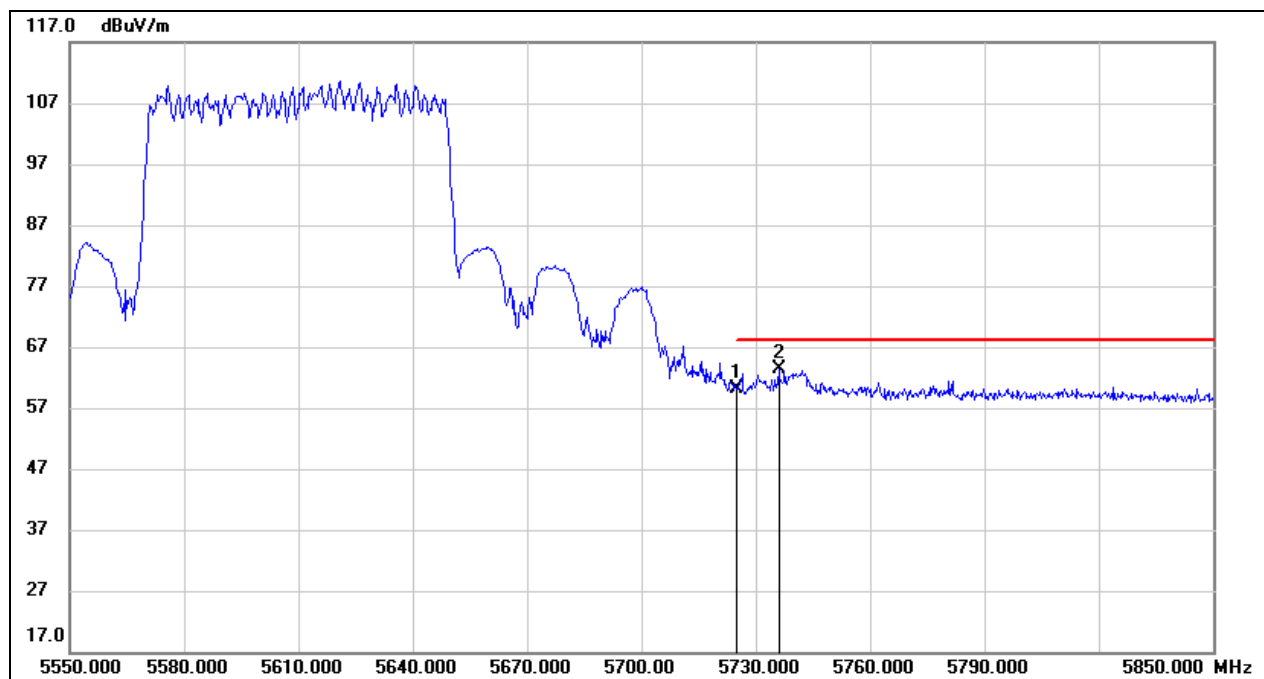
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	21.19	40.62	61.81	68.20	-6.39	peak
2	5470.000	23.55	40.63	64.18	68.20	-4.02	peak

Test Mode:	802.11ax HE80 Average	Channel:	5530 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



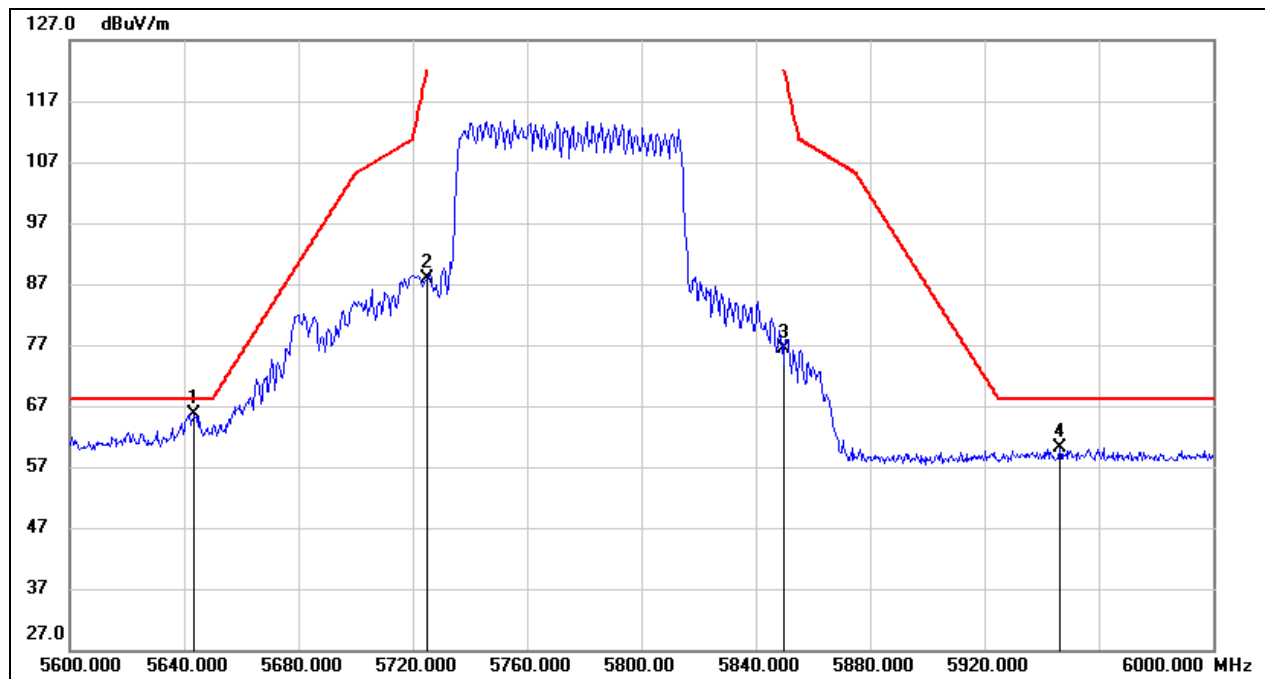
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	8.03	40.62	48.65	54.00	-5.35	AVG
2	5470.000	9.50	40.63	50.13	/	/	AVG

Test Mode:	802.11ax HE80 Peak	Channel:	5610 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



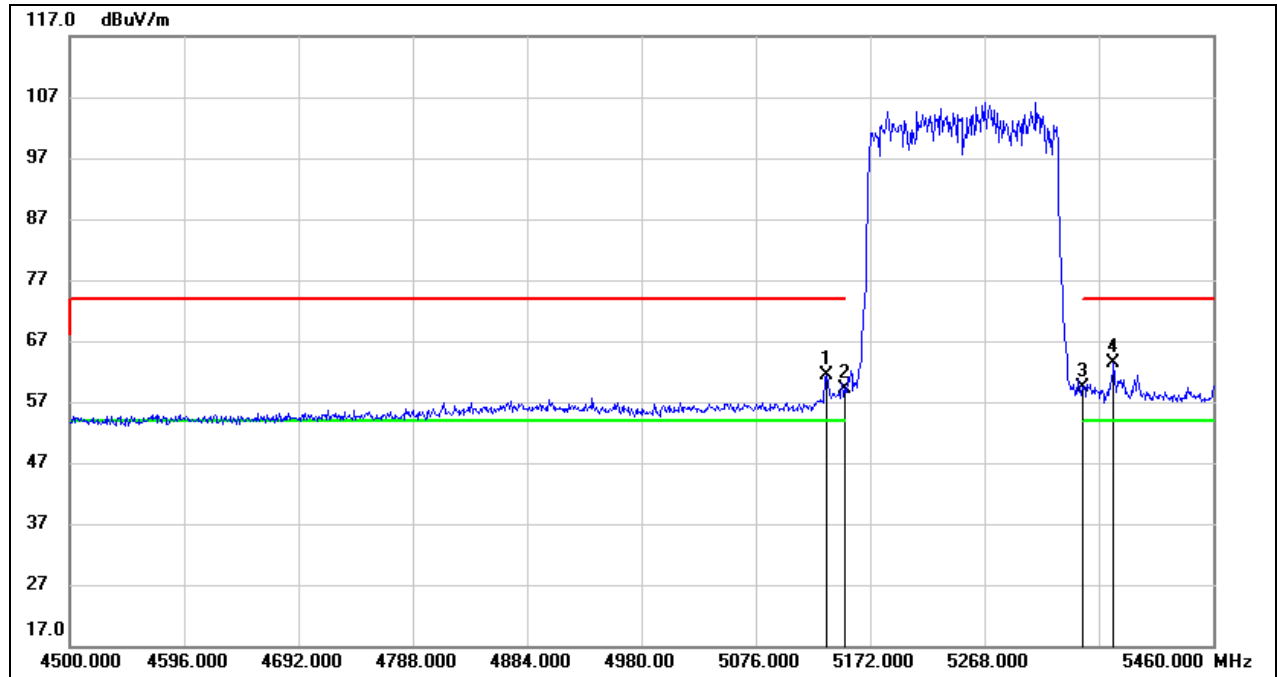
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	18.84	41.27	60.11	68.20	-8.09	peak
2	5736.000	22.17	41.30	63.47	68.20	-4.73	peak

Test Mode:	802.11ax HE80 Peak	Channel:	5775 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



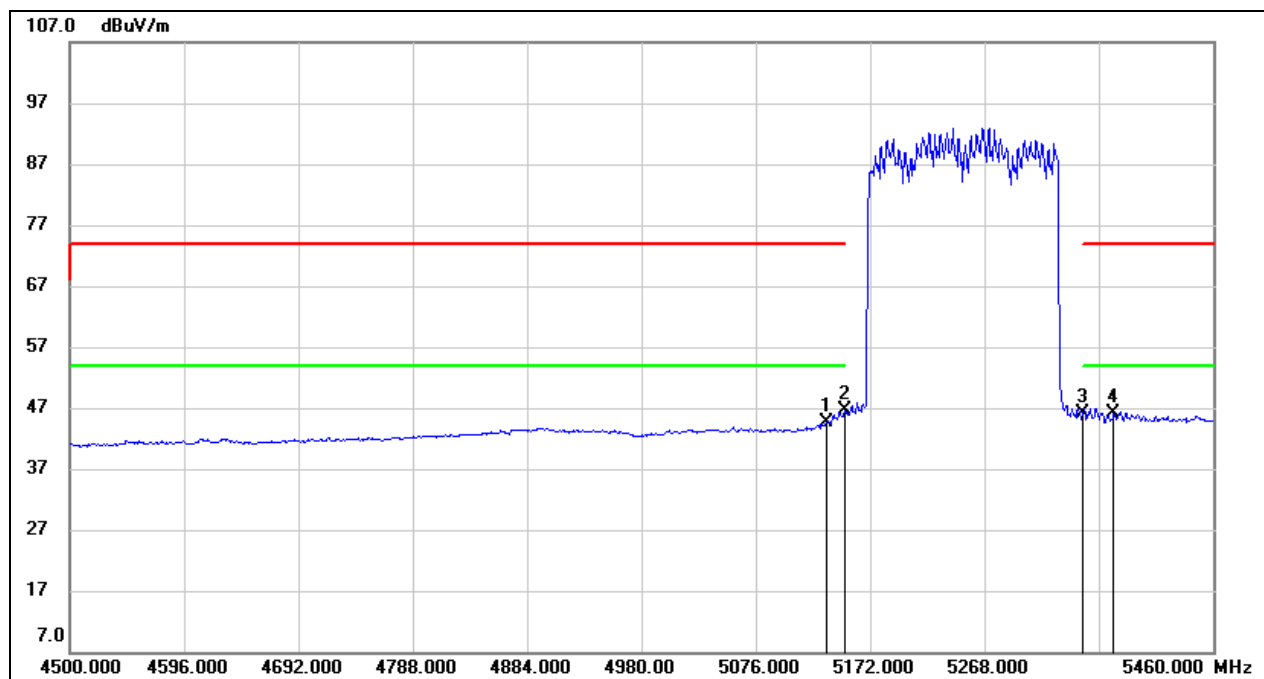
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5643.600	24.67	41.04	65.71	68.20	-2.49	peak
2	5725.000	46.73	41.27	88.00	122.20	-34.20	peak
3	5850.000	34.84	41.60	76.44	122.20	-45.76	peak
4	5946.400	18.19	41.86	60.05	68.20	-8.15	peak

Test Mode:	802.11ax HE160 Peak	Channel:	5250 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



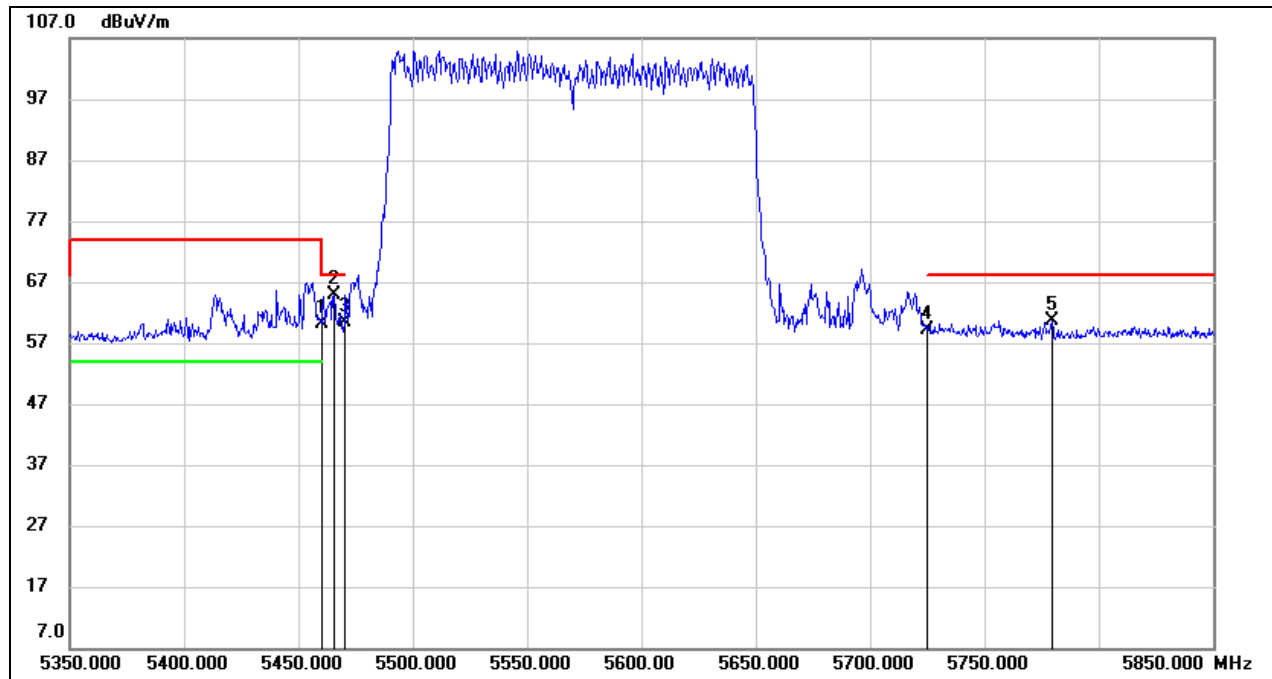
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5135.520	21.11	40.26	61.37	74.00	-12.63	peak
2	5150.000	18.96	40.27	59.23	74.00	-14.77	peak
3	5350.000	18.99	40.49	59.48	74.00	-14.52	peak
4	5376.480	22.80	40.52	63.32	74.00	-10.68	peak

Test Mode:	802.11ax HE160 Average	Channel:	5250 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



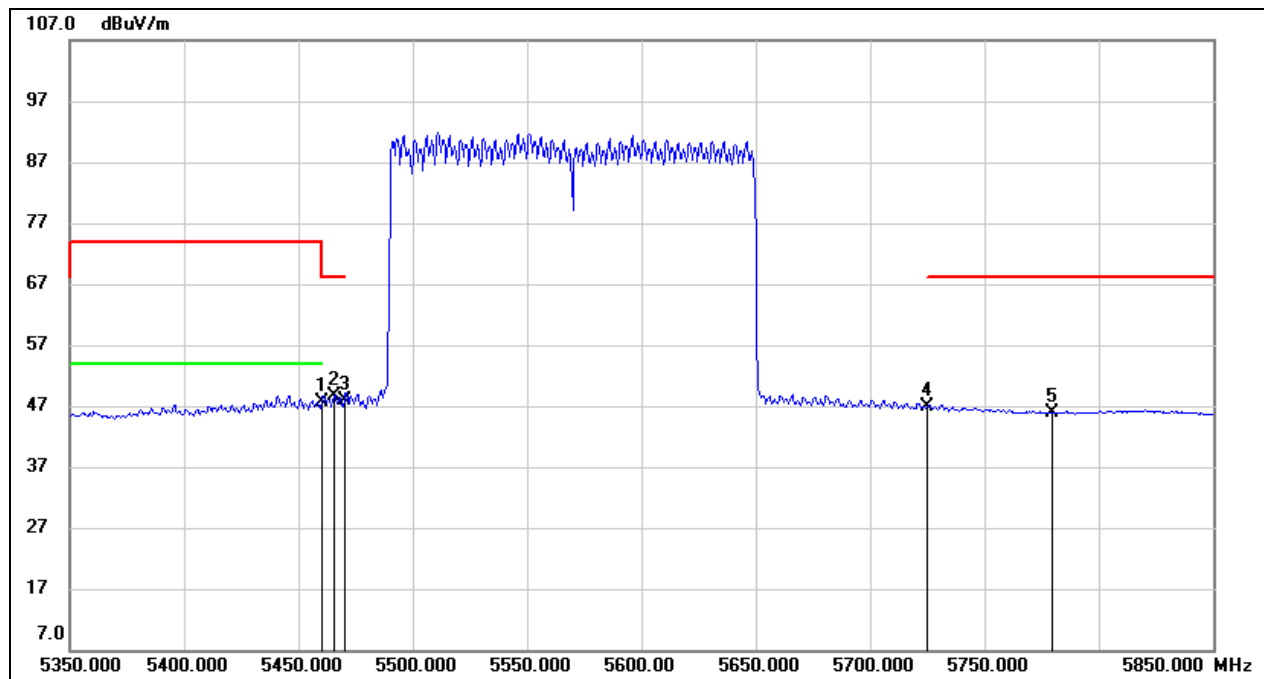
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5135.200	4.49	40.26	44.75	54.00	-9.25	AVG
2	5150.000	6.29	40.27	46.56	54.00	-7.44	AVG
3	5350.000	5.71	40.49	46.20	54.00	-7.80	AVG
4	5376.480	5.54	40.52	46.06	54.00	-7.94	AVG

Test Mode:	802.11ax HE160 Peak	Channel:	5570 MHz
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	5460.000	19.52	40.62	60.14	68.20	-8.06	peak
2	5465.500	24.25	40.62	64.87	68.20	-3.33	peak
3	5470.000	19.84	40.63	60.47	68.20	-7.73	peak
4	5725.000	17.81	41.27	59.08	68.20	-9.12	peak
5	5779.500	19.30	41.41	60.71	68.20	-7.49	peak

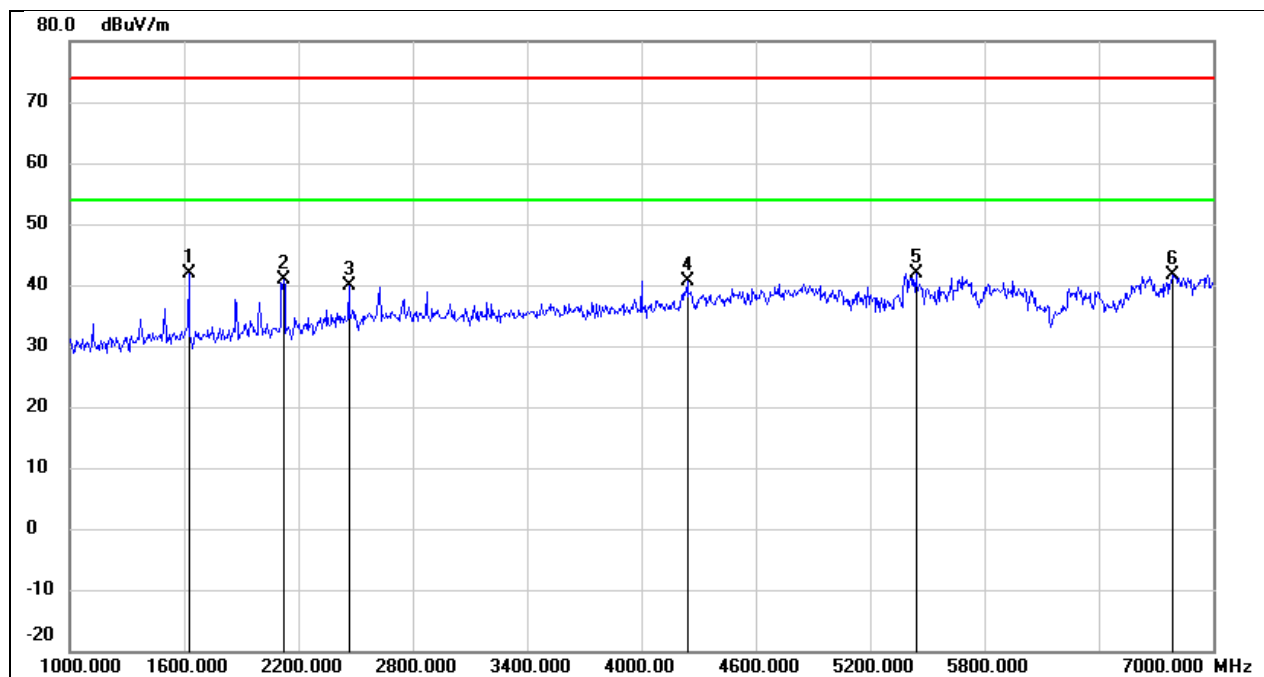
Test Mode:	802.11ax HE160 Average	Channel:	5570 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	7.02	40.62	47.64	54.00	-6.36	AVG
2	5465.500	8.03	40.62	48.65	/	/	AVG
3	5470.000	7.35	40.63	47.98	/	/	AVG
4	5725.000	5.52	41.27	46.79	/	/	AVG
5	5779.500	4.39	41.41	45.80	/	/	AVG

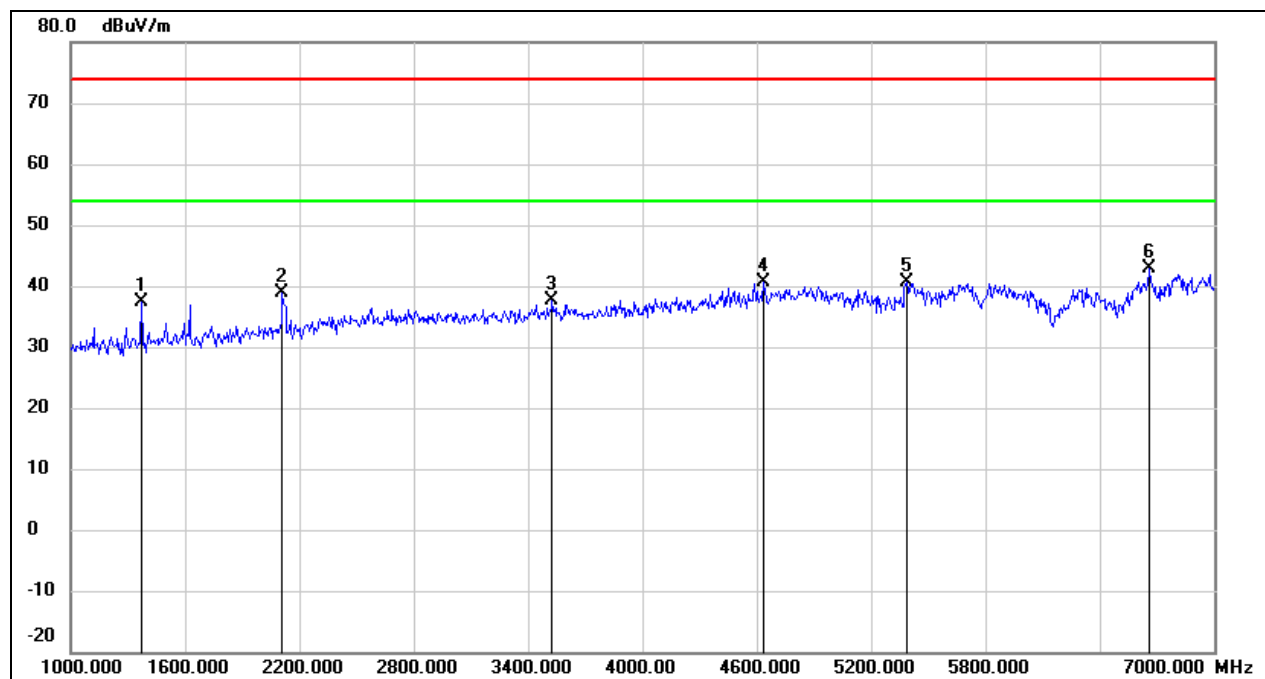
8.2. SPURIOUS EMISSIONS (1 GHZ ~ 7 GHZ)

Test Mode:	802.11a 20	Channel:	5180 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



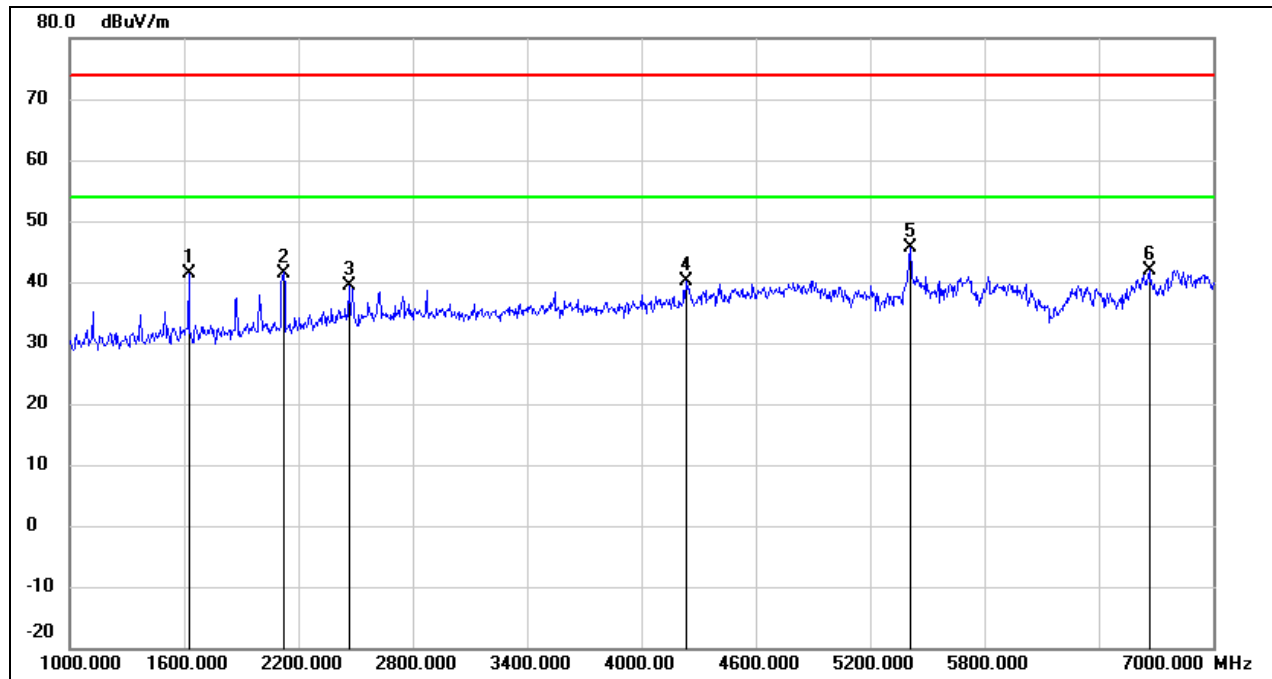
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	54.21	-12.30	41.91	74.00	-32.09	peak
2	2122.000	51.27	-10.43	40.84	74.00	-33.16	peak
3	2464.000	48.55	-8.68	39.87	74.00	-34.13	peak
4	4240.000	44.05	-3.35	40.70	74.00	-33.30	peak
5	5440.000	41.60	0.35	41.95	74.00	-32.05	peak
6	6790.000	36.60	5.15	41.75	74.00	-32.25	peak

Test Mode:	802.11a 20	Channel:	5180 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



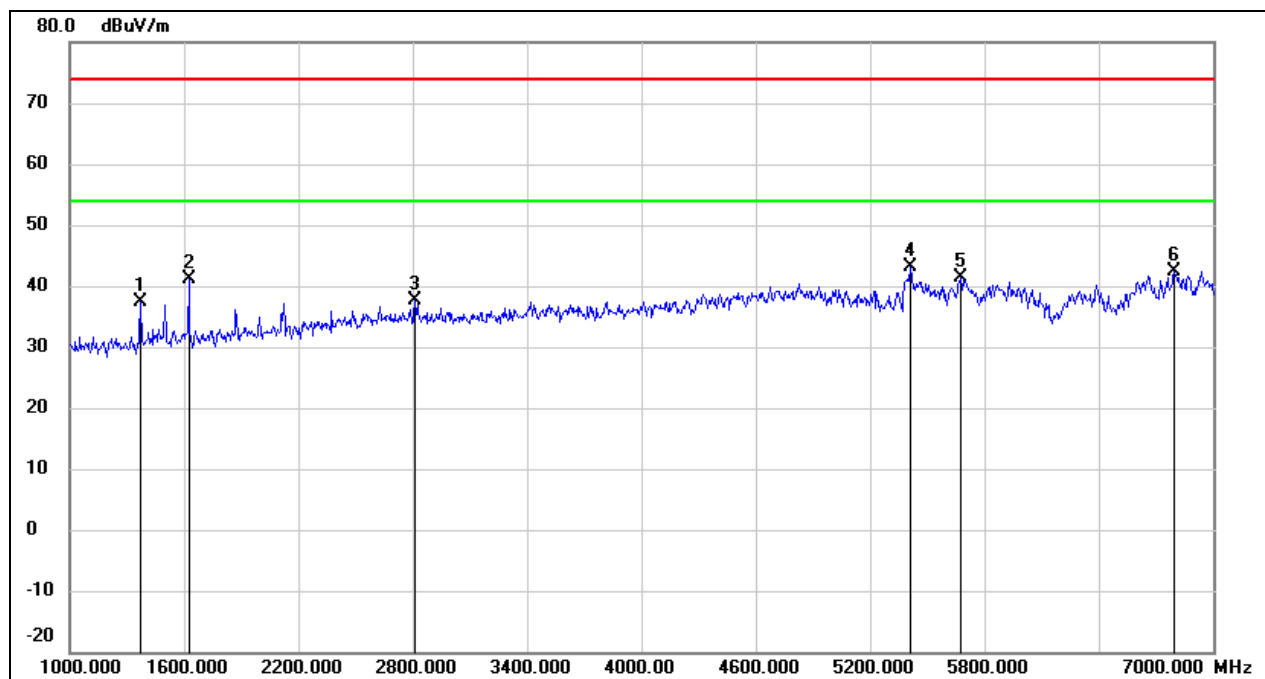
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1372.000	50.66	-13.31	37.35	74.00	-36.65	peak
2	2110.000	49.39	-10.49	38.90	74.00	-35.10	peak
3	3526.000	43.30	-5.78	37.52	74.00	-36.48	peak
4	4636.000	42.31	-1.59	40.72	74.00	-33.28	peak
5	5386.000	40.39	0.29	40.68	74.00	-33.32	peak
6	6658.000	38.39	4.49	42.88	74.00	-31.12	peak

Test Mode:	802.11a 20	Channel:	5200 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



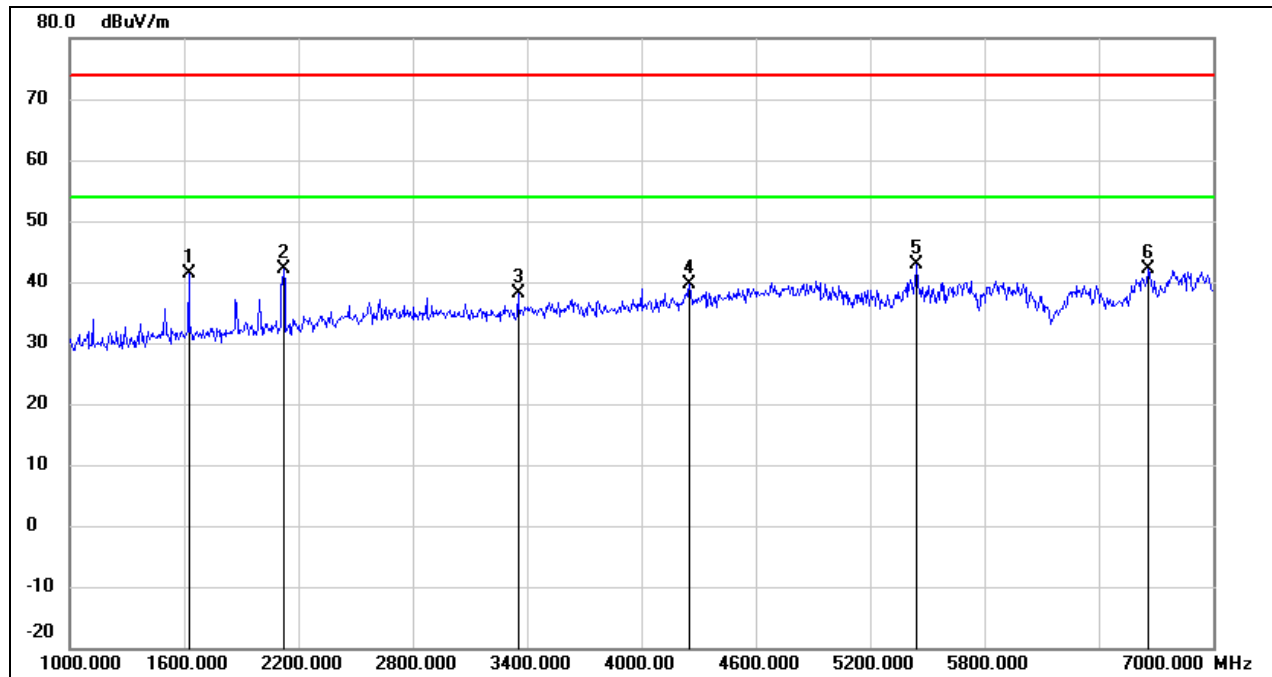
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	53.62	-12.30	41.32	74.00	-32.68	peak
2	2122.000	51.93	-10.43	41.50	74.00	-32.50	peak
3	2464.000	48.08	-8.68	39.40	74.00	-34.60	peak
4	4234.000	43.53	-3.39	40.14	74.00	-33.86	peak
5	5410.000	45.26	0.32	45.58	74.00	-28.42	peak
6	6664.000	37.27	4.54	41.81	74.00	-32.19	peak

Test Mode:	802.11a 20	Channel:	5200 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



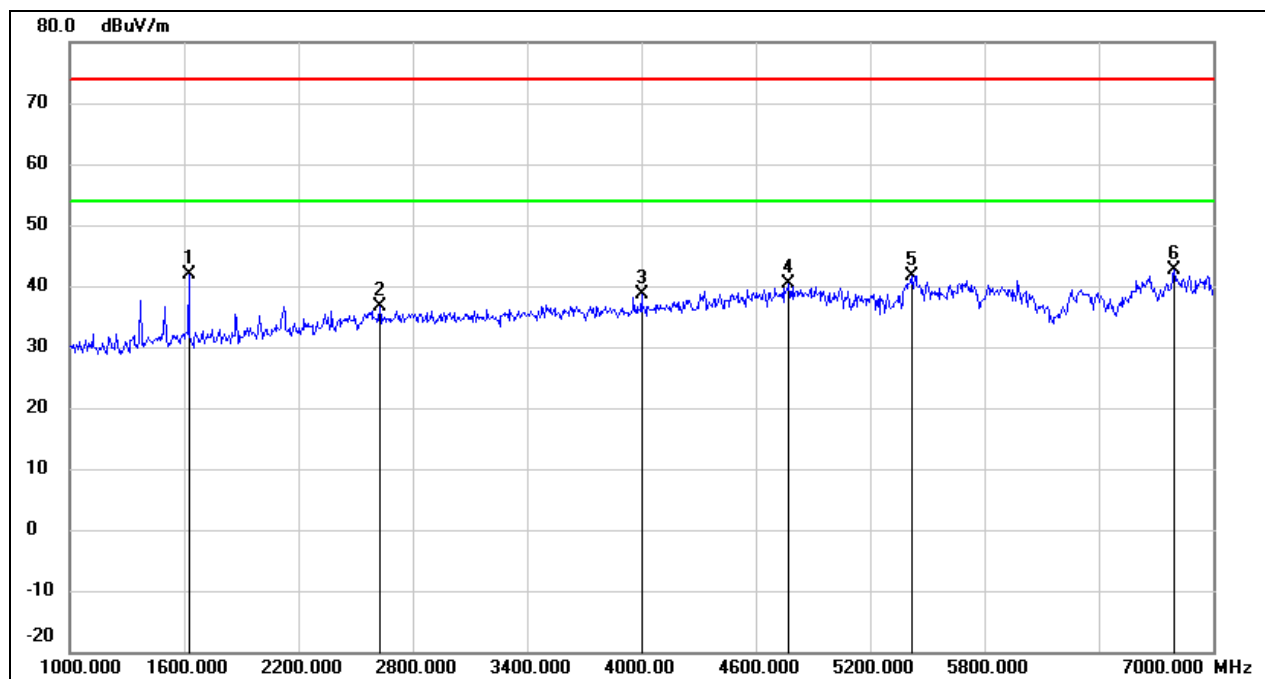
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1372.000	50.62	-13.31	37.31	74.00	-36.69	peak
2	1624.000	53.33	-12.30	41.03	74.00	-32.97	peak
3	2812.000	45.06	-7.55	37.51	74.00	-36.49	peak
4	5410.000	42.85	0.32	43.17	74.00	-30.83	peak
5	5674.000	40.40	0.92	41.32	74.00	-32.68	peak
6	6796.000	37.14	5.19	42.33	74.00	-31.67	peak

Test Mode:	802.11a 20	Channel:	5240 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



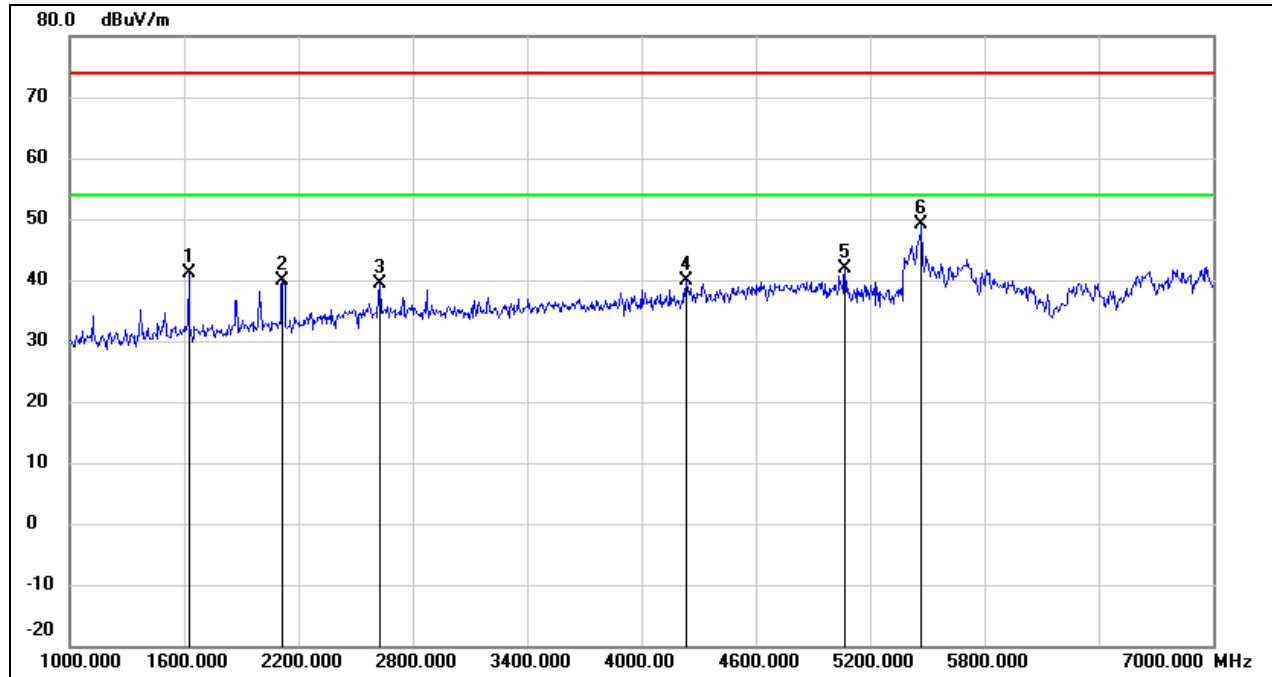
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	53.77	-12.30	41.47	74.00	-32.53	peak
2	2122.000	52.64	-10.43	42.21	74.00	-31.79	peak
3	3352.000	44.24	-6.19	38.05	74.00	-35.95	peak
4	4252.000	42.91	-3.30	39.61	74.00	-34.39	peak
5	5446.000	42.51	0.35	42.86	74.00	-31.14	peak
6	6658.000	37.57	4.49	42.06	74.00	-31.94	peak

Test Mode:	802.11a 20	Channel:	5240 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



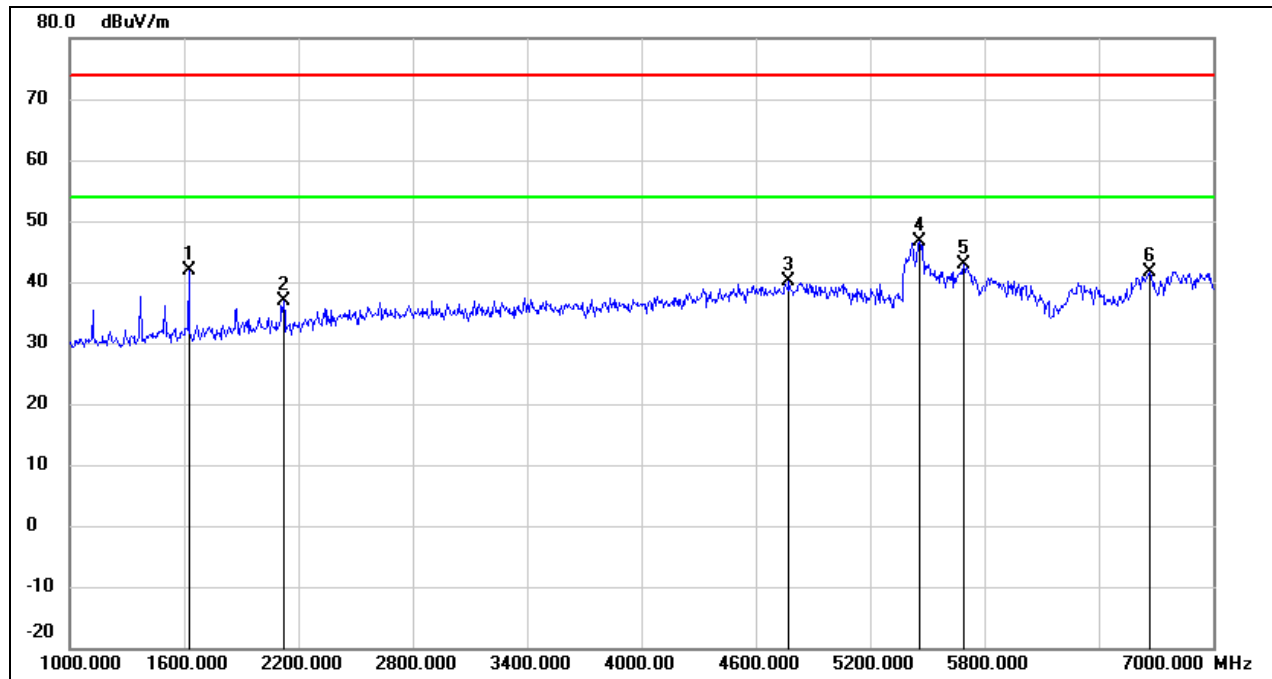
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	54.19	-12.30	41.89	74.00	-32.11	peak
2	2626.000	44.68	-8.10	36.58	74.00	-37.42	peak
3	4000.000	43.08	-4.48	38.60	74.00	-35.40	peak
4	4774.000	41.32	-1.05	40.27	74.00	-33.73	peak
5	5416.000	41.24	0.32	41.56	74.00	-32.44	peak
6	6796.000	37.46	5.19	42.65	74.00	-31.35	peak

Test Mode:	802.11a 20	Channel:	5260 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



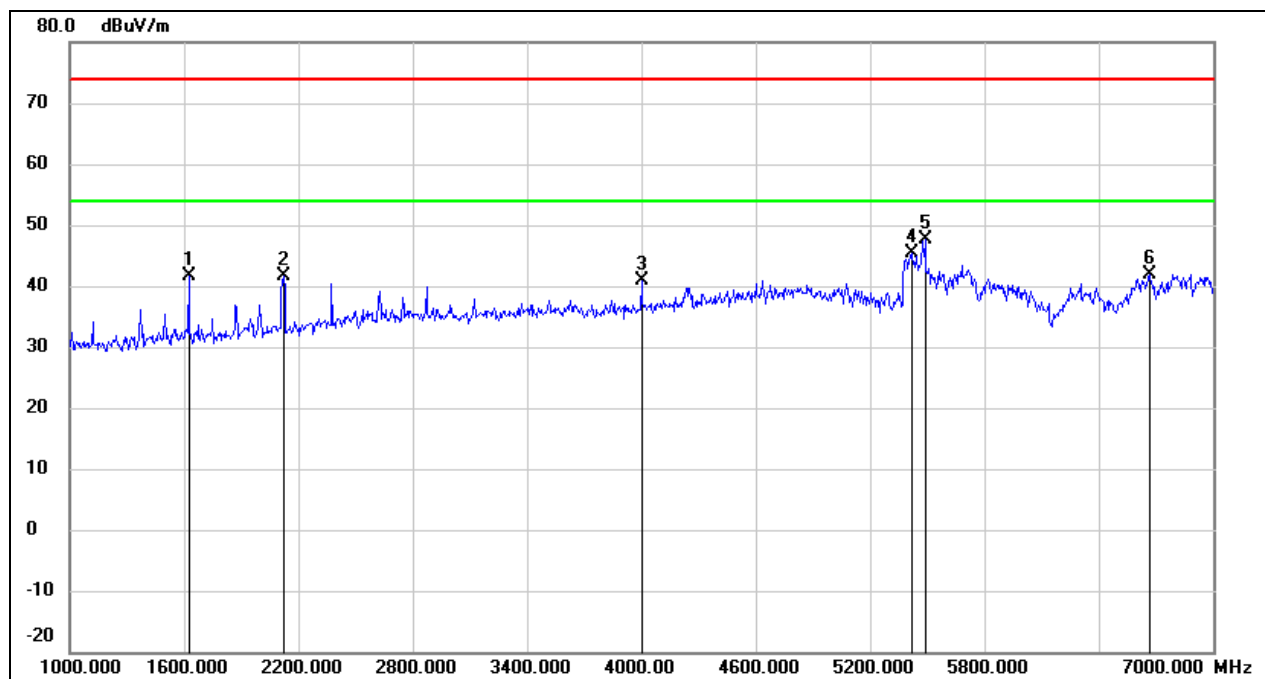
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	53.45	-12.30	41.15	74.00	-32.85	peak
2	2116.000	50.32	-10.47	39.85	74.00	-34.15	peak
3	2626.000	47.40	-8.10	39.30	74.00	-34.70	peak
4	4234.000	43.28	-3.39	39.89	74.00	-34.11	peak
5	5068.000	41.83	-0.07	41.76	74.00	-32.24	peak
6	5470.000	48.74	0.39	49.13	74.00	-24.87	peak

Test Mode:	802.11a 20	Channel:	5260 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



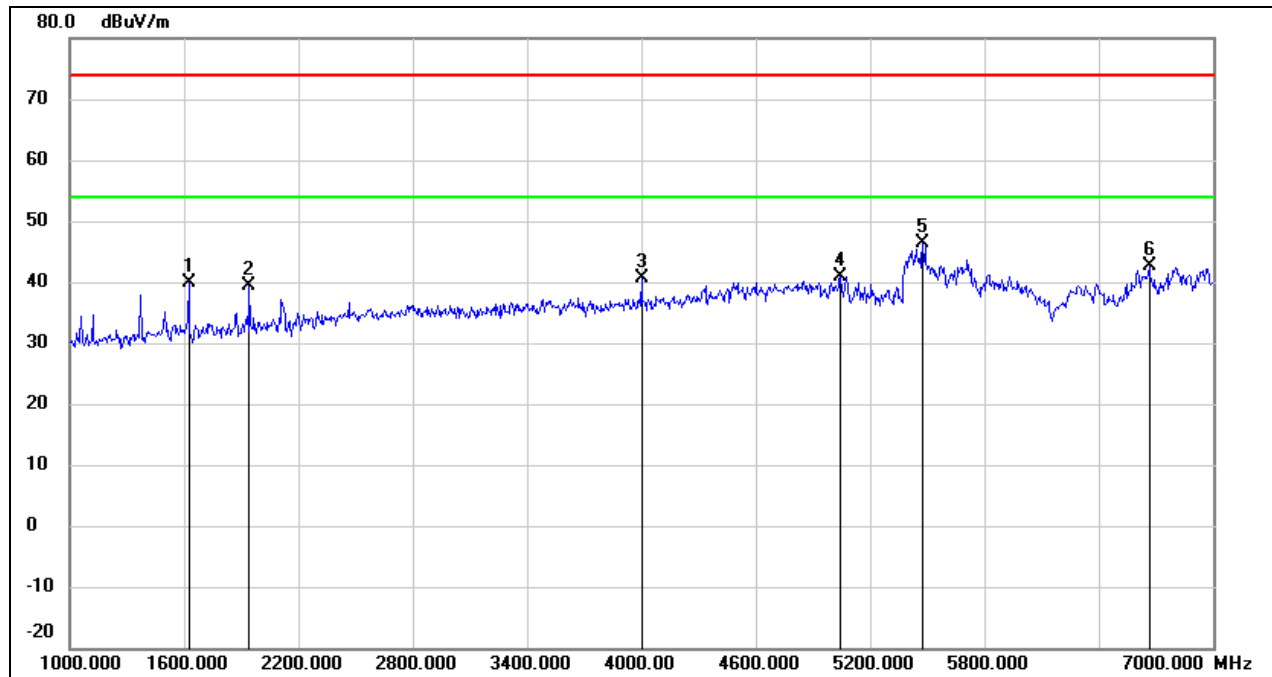
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	54.21	-12.30	41.91	74.00	-32.09	peak
2	2122.000	47.24	-10.43	36.81	74.00	-37.19	peak
3	4774.000	41.27	-1.05	40.22	74.00	-33.78	peak
4	5458.000	46.23	0.38	46.61	74.00	-27.39	peak
5	5692.000	42.00	0.97	42.97	74.00	-31.03	peak
6	6664.000	37.09	4.54	41.63	74.00	-32.37	peak

Test Mode:	802.11a 20	Channel:	5280 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



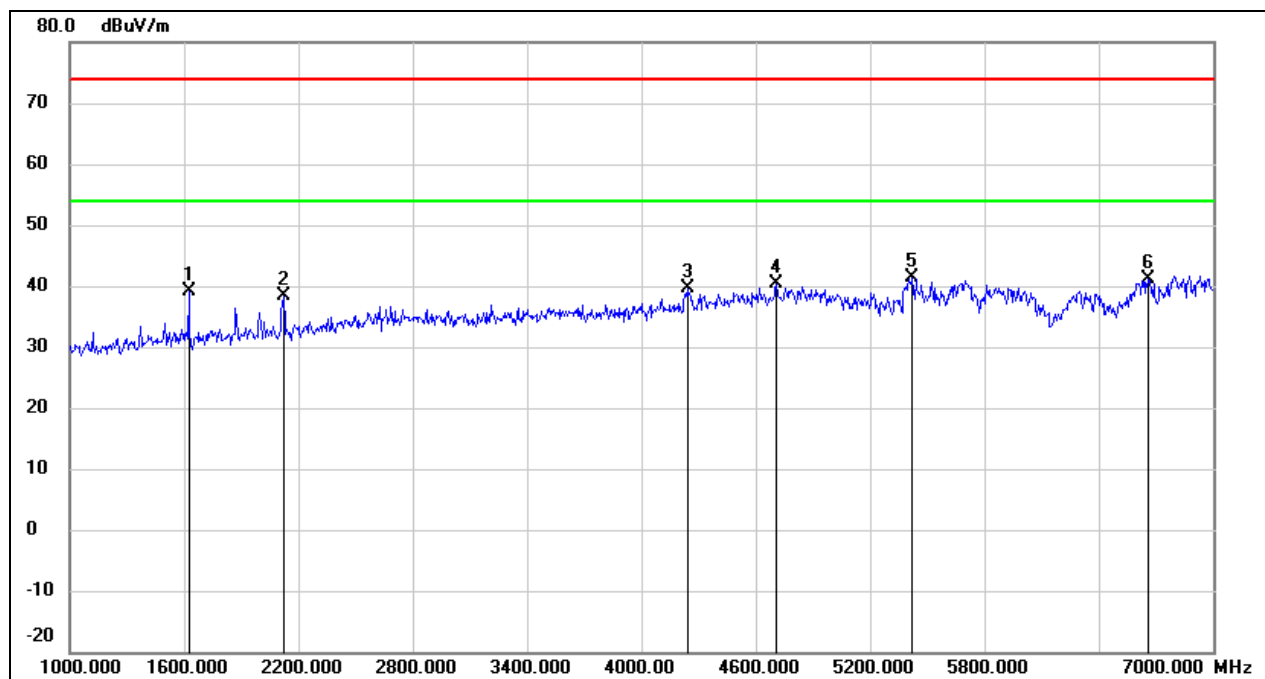
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	54.01	-12.30	41.71	74.00	-32.29	peak
2	2122.000	52.08	-10.43	41.65	74.00	-32.35	peak
3	4000.000	45.39	-4.48	40.91	74.00	-33.09	peak
4	5416.000	45.08	0.32	45.40	74.00	-28.60	peak
5	5488.000	47.27	0.41	47.68	74.00	-26.32	peak
6	6664.000	37.33	4.54	41.87	74.00	-32.13	peak

Test Mode:	802.11a 20	Channel:	5280 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



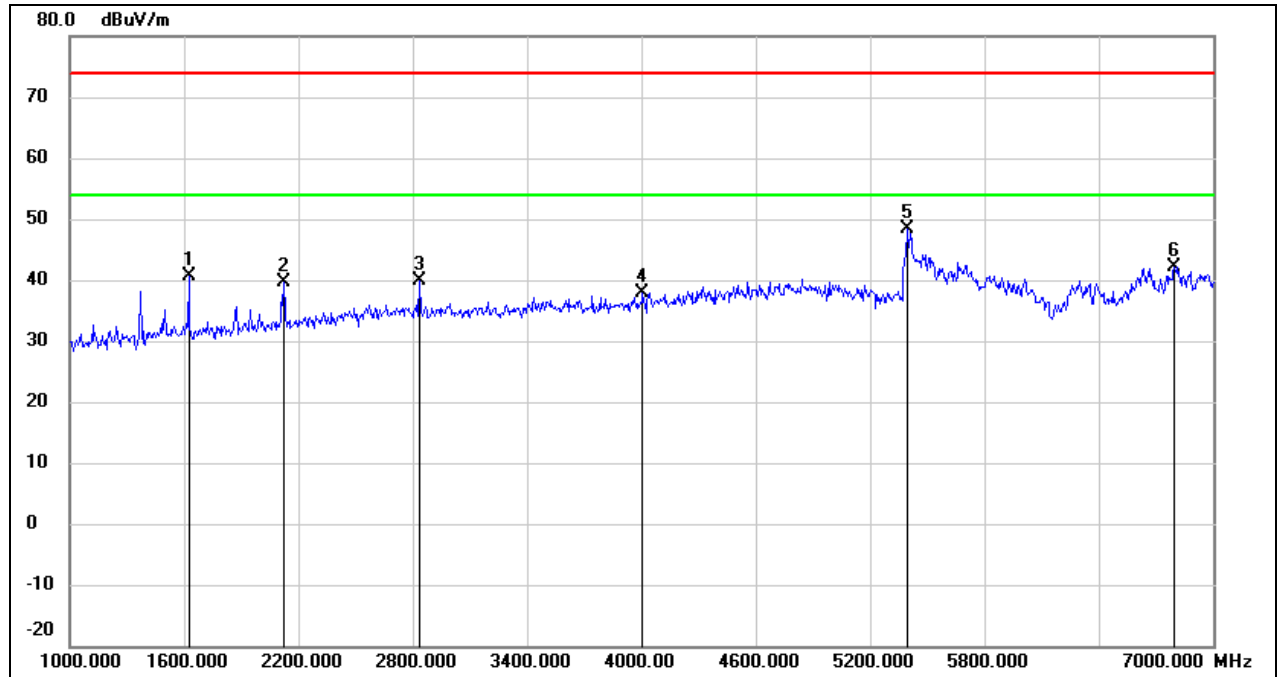
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	52.18	-12.30	39.88	74.00	-34.12	peak
2	1942.000	50.72	-11.25	39.47	74.00	-34.53	peak
3	4000.000	45.00	-4.48	40.52	74.00	-33.48	peak
4	5044.000	40.90	-0.10	40.80	74.00	-33.20	peak
5	5476.000	45.99	0.39	46.38	74.00	-27.62	peak
6	6664.000	38.15	4.54	42.69	74.00	-31.31	peak

Test Mode:	802.11a 20	Channel:	5320 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



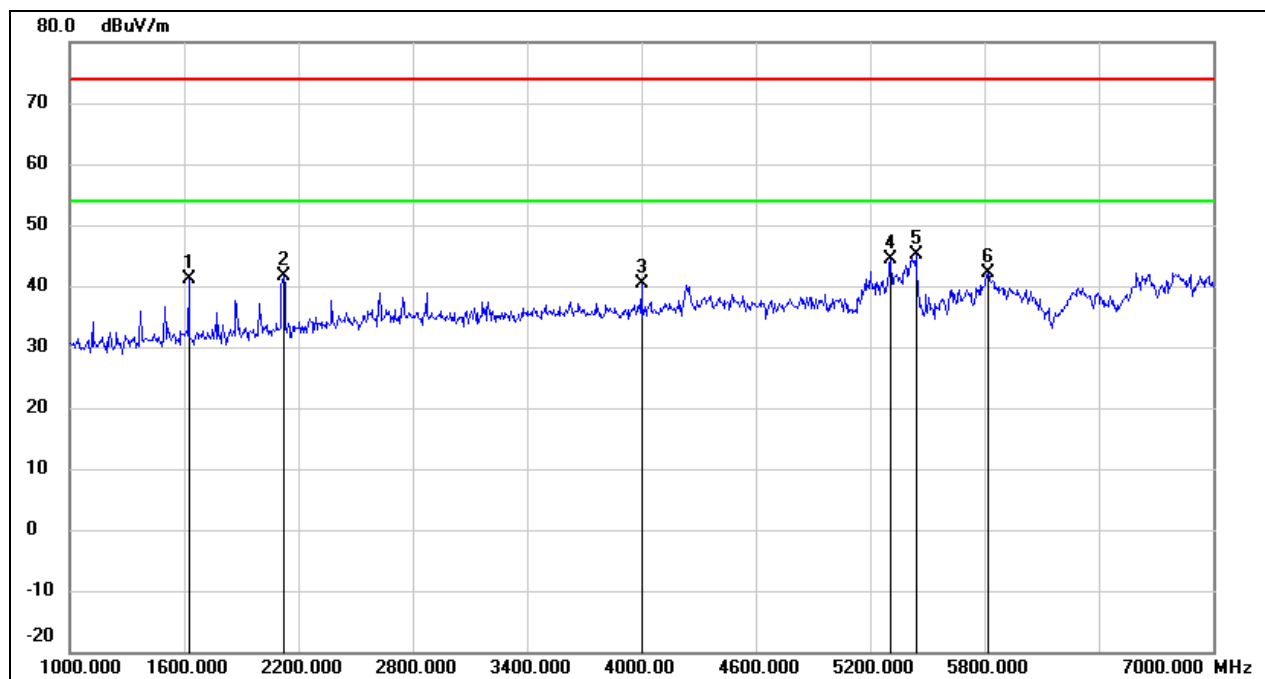
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	51.51	-12.30	39.21	74.00	-34.79	peak
2	2122.000	48.69	-10.43	38.26	74.00	-35.74	peak
3	4240.000	42.98	-3.35	39.63	74.00	-34.37	peak
4	4708.000	41.79	-1.31	40.48	74.00	-33.52	peak
5	5422.000	41.01	0.32	41.33	74.00	-32.67	peak
6	6658.000	36.59	4.49	41.08	74.00	-32.92	peak

Test Mode:	802.11a 20	Channel:	5320 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



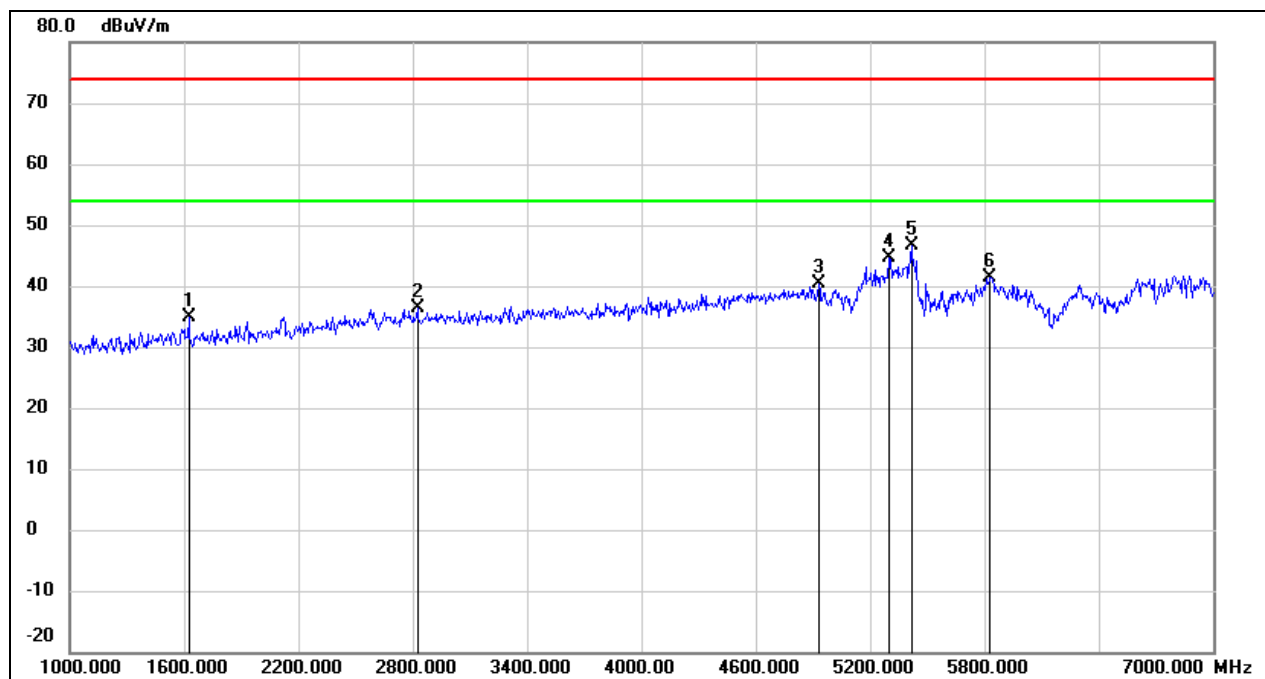
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	52.96	-12.30	40.66	74.00	-33.34	peak
2	2122.000	50.08	-10.43	39.65	74.00	-34.35	peak
3	2836.000	47.24	-7.48	39.76	74.00	-34.24	peak
4	4006.000	42.30	-4.46	37.84	74.00	-36.16	peak
5	5392.000	48.02	0.29	48.31	74.00	-25.69	peak
6	6796.000	37.00	5.19	42.19	74.00	-31.81	peak

Test Mode:	802.11a 20	Channel:	5500 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



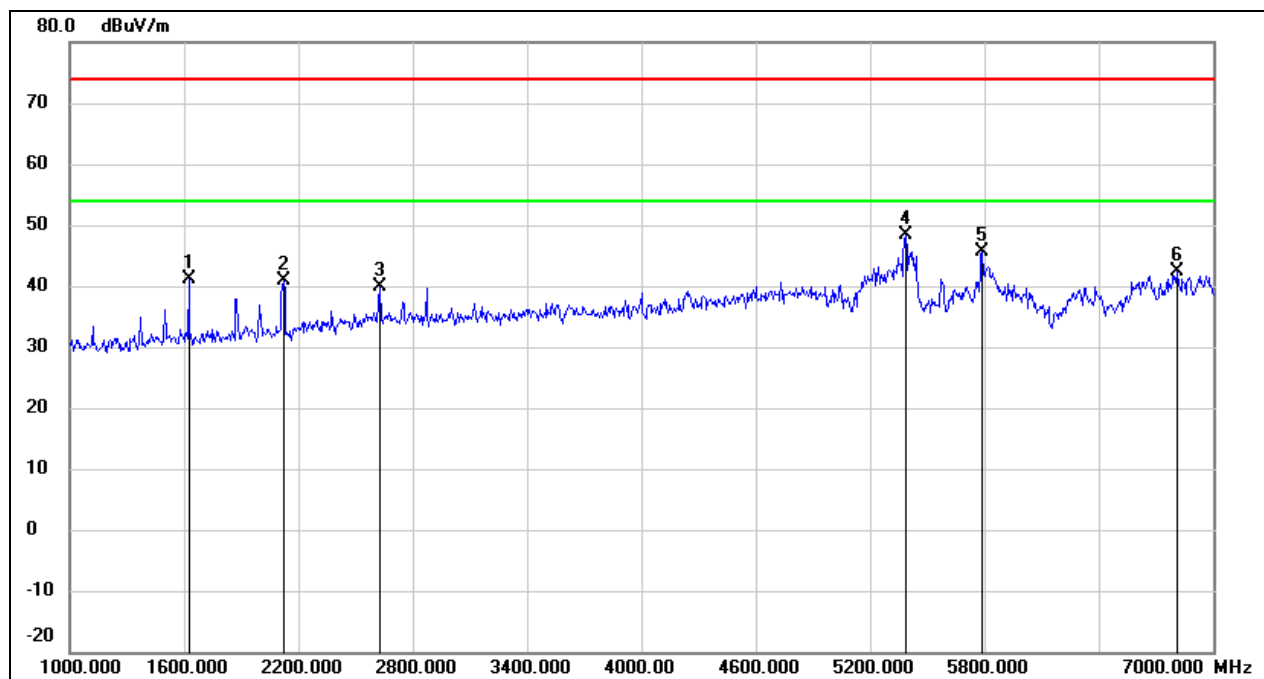
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	53.40	-12.30	41.10	74.00	-32.90	peak
2	2122.000	52.18	-10.43	41.75	74.00	-32.25	peak
3	4000.000	44.74	-4.48	40.26	74.00	-33.74	peak
4	5308.000	44.20	0.20	44.40	74.00	-29.60	peak
5	5440.000	44.72	0.35	45.07	74.00	-28.93	peak
6	5818.000	40.85	1.33	42.18	74.00	-31.82	peak

Test Mode:	802.11a 20	Channel:	5500 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



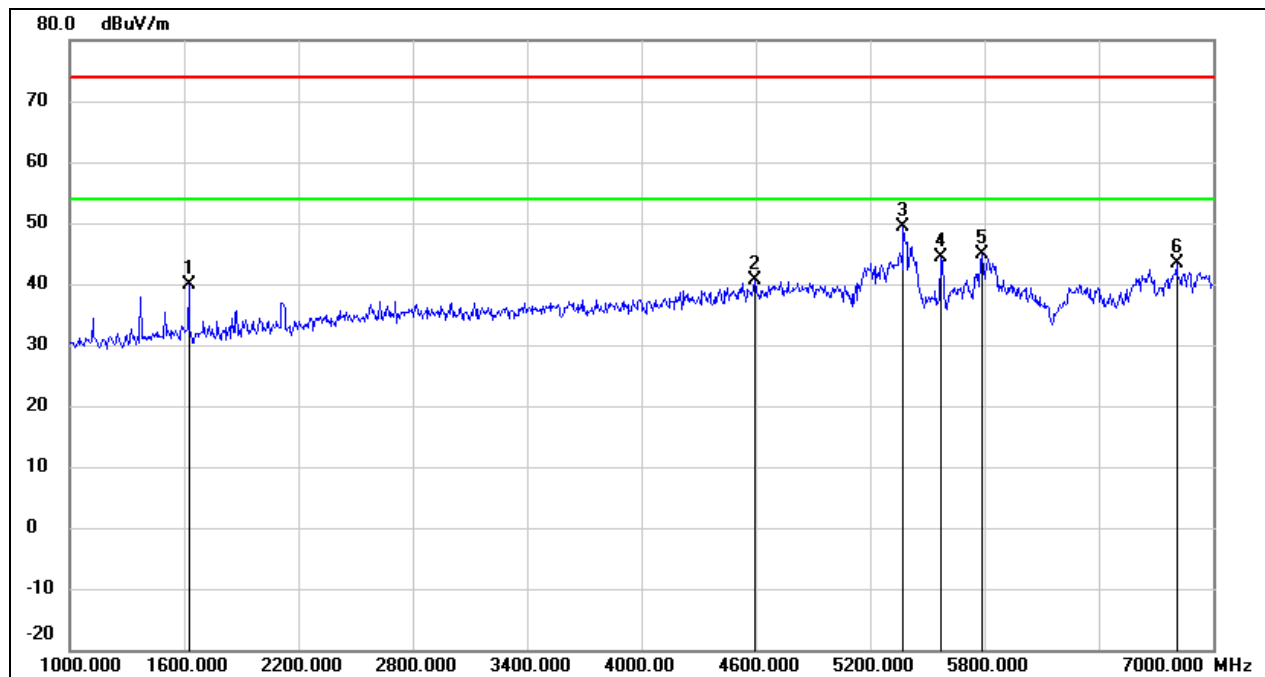
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	47.22	-12.30	34.92	74.00	-39.08	peak
2	2824.000	43.86	-7.51	36.35	74.00	-37.65	peak
3	4930.000	40.89	-0.43	40.46	74.00	-33.54	peak
4	5296.000	44.41	0.19	44.60	74.00	-29.40	peak
5	5416.000	46.41	0.32	46.73	74.00	-27.27	peak
6	5830.000	39.97	1.36	41.33	74.00	-32.67	peak

Test Mode:	802.11a 20	Channel:	5580 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



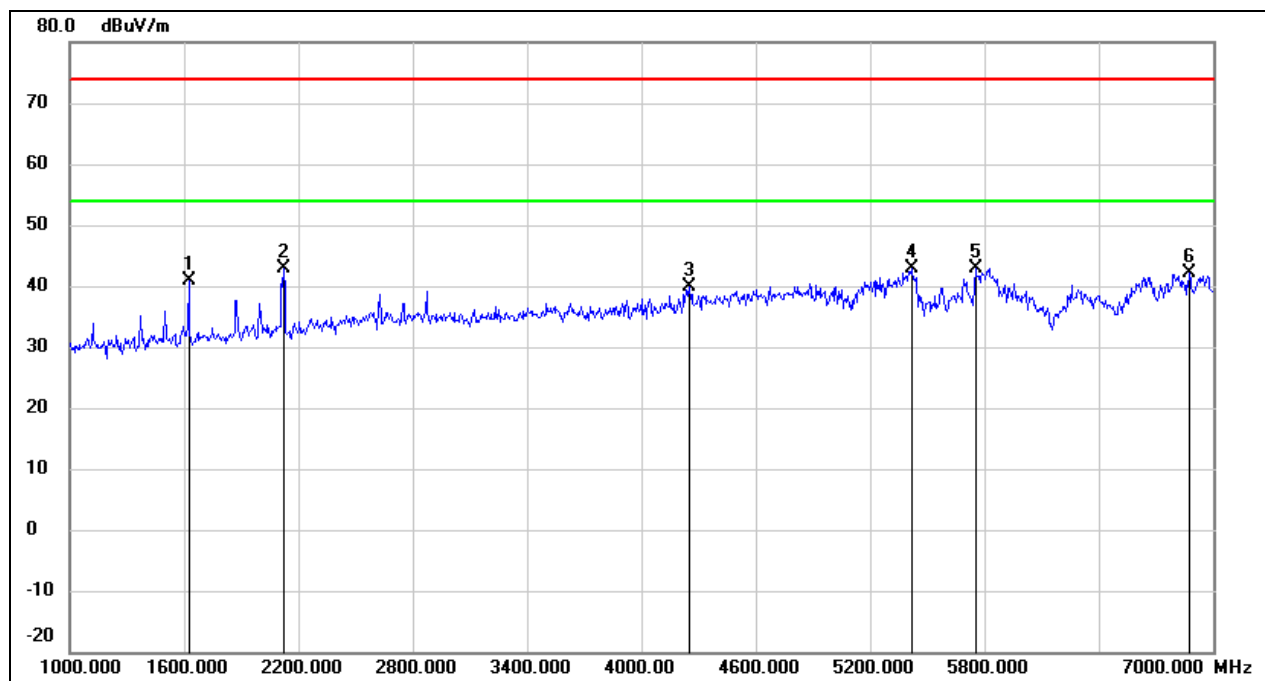
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	53.52	-12.30	41.22	74.00	-32.78	peak
2	2122.000	51.37	-10.43	40.94	74.00	-33.06	peak
3	2626.000	47.96	-8.10	39.86	74.00	-34.14	peak
4	5386.000	47.97	0.29	48.26	74.00	-25.74	peak
5	5788.000	44.40	1.25	45.65	74.00	-28.35	peak
6	6814.000	37.12	5.28	42.40	74.00	-31.60	peak

Test Mode:	802.11a 20	Channel:	5580 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



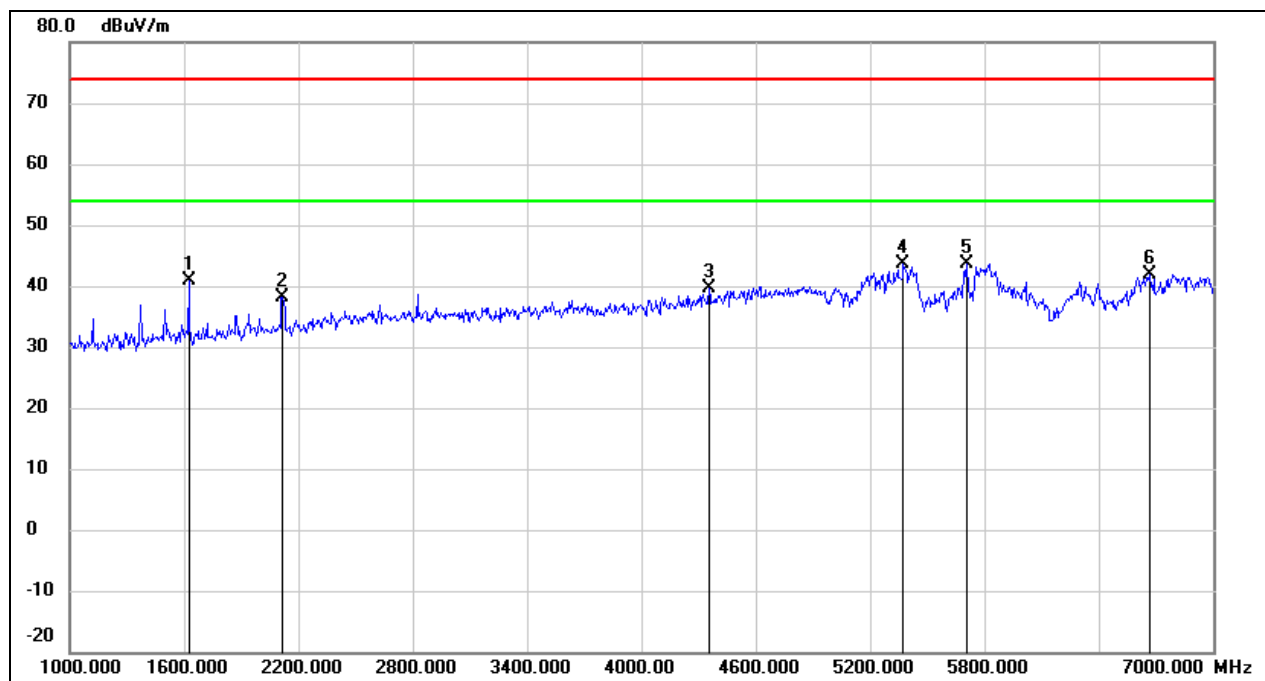
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	52.11	-12.30	39.81	74.00	-34.19	peak
2	4594.000	42.40	-1.76	40.64	74.00	-33.36	peak
3	5374.000	49.05	0.28	49.33	74.00	-24.67	peak
4	5572.000	43.85	0.63	44.48	74.00	-29.52	peak
5	5788.000	43.72	1.25	44.97	74.00	-29.03	peak
6	6808.000	38.24	5.24	43.48	74.00	-30.52	peak

Test Mode:	802.11a 20	Channel:	5700 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



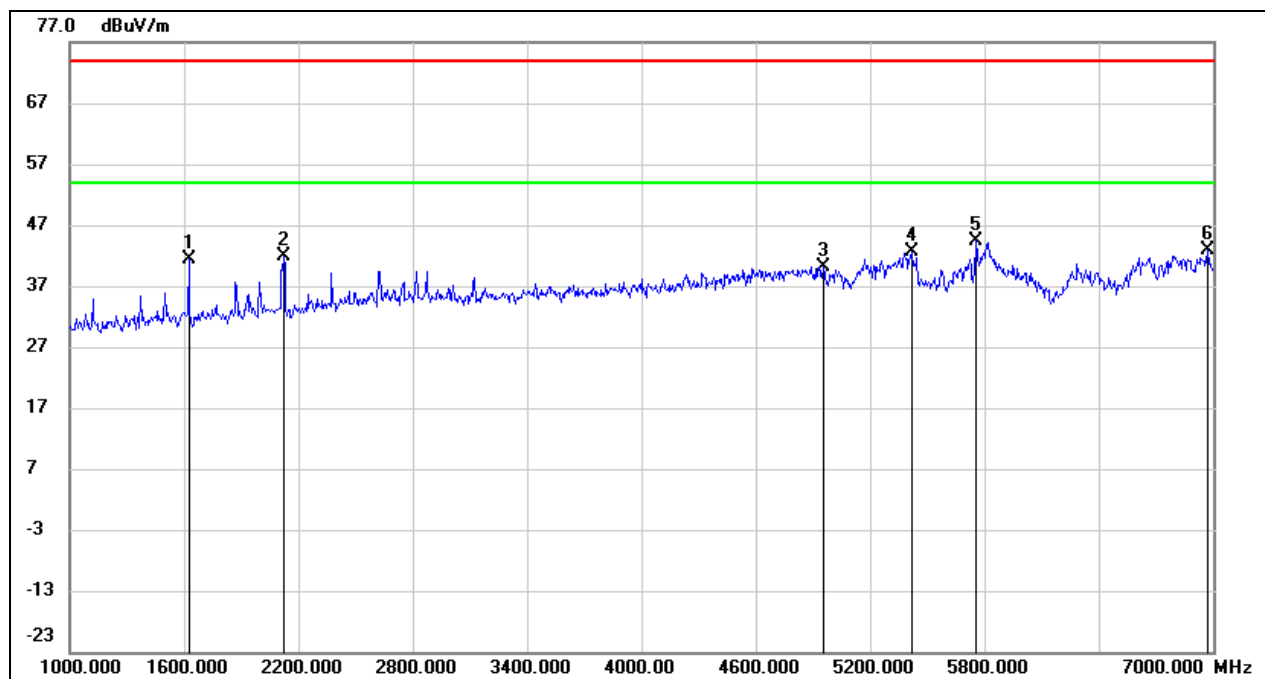
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	53.26	-12.30	40.96	74.00	-33.04	peak
2	2122.000	53.26	-10.43	42.83	74.00	-31.17	peak
3	4252.000	43.26	-3.30	39.96	74.00	-34.04	peak
4	5416.000	42.56	0.32	42.88	74.00	-31.12	peak
5	5752.000	41.76	1.14	42.90	74.00	-31.10	peak
6	6874.000	36.63	5.57	42.20	74.00	-31.80	peak

Test Mode:	802.11a 20	Channel:	5700 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



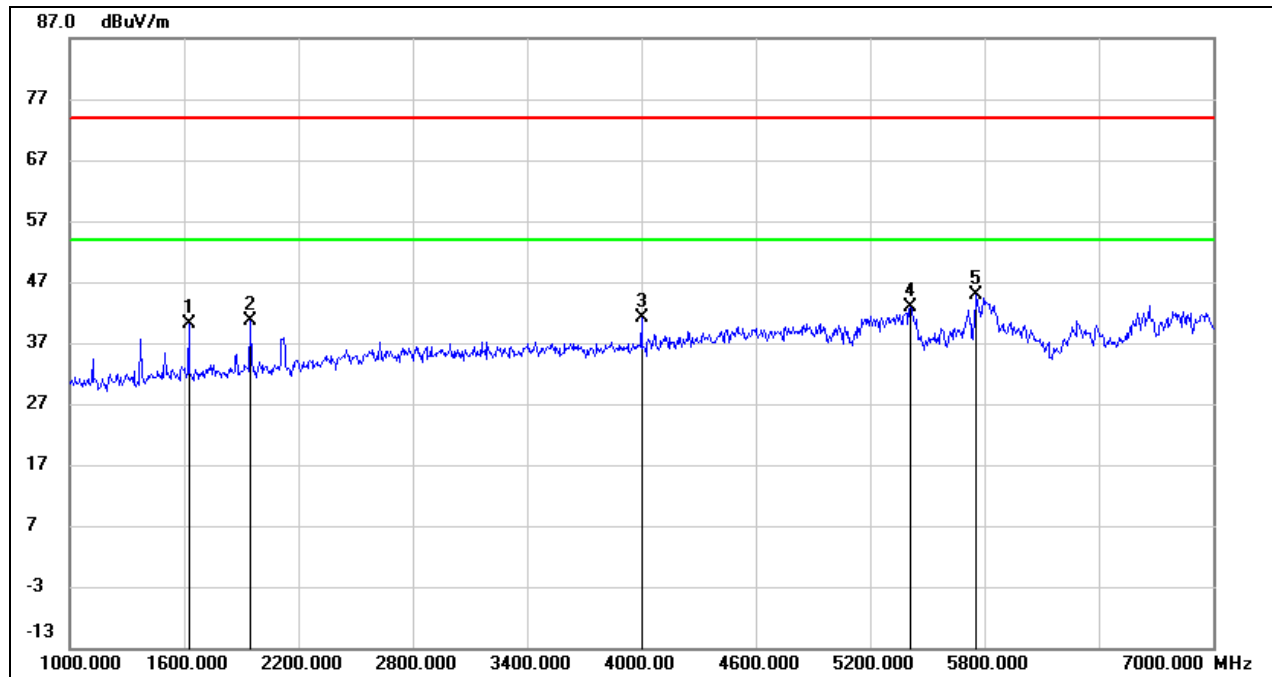
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	53.18	-12.30	40.88	74.00	-33.12	peak
2	2116.000	48.61	-10.47	38.14	74.00	-35.86	peak
3	4354.000	42.33	-2.82	39.51	74.00	-34.49	peak
4	5374.000	43.25	0.28	43.53	74.00	-30.47	peak
5	5704.000	42.70	1.00	43.70	74.00	-30.30	peak
6	6664.000	37.29	4.54	41.83	74.00	-32.17	peak

Test Mode:	802.11a 20	Channel:	5720 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



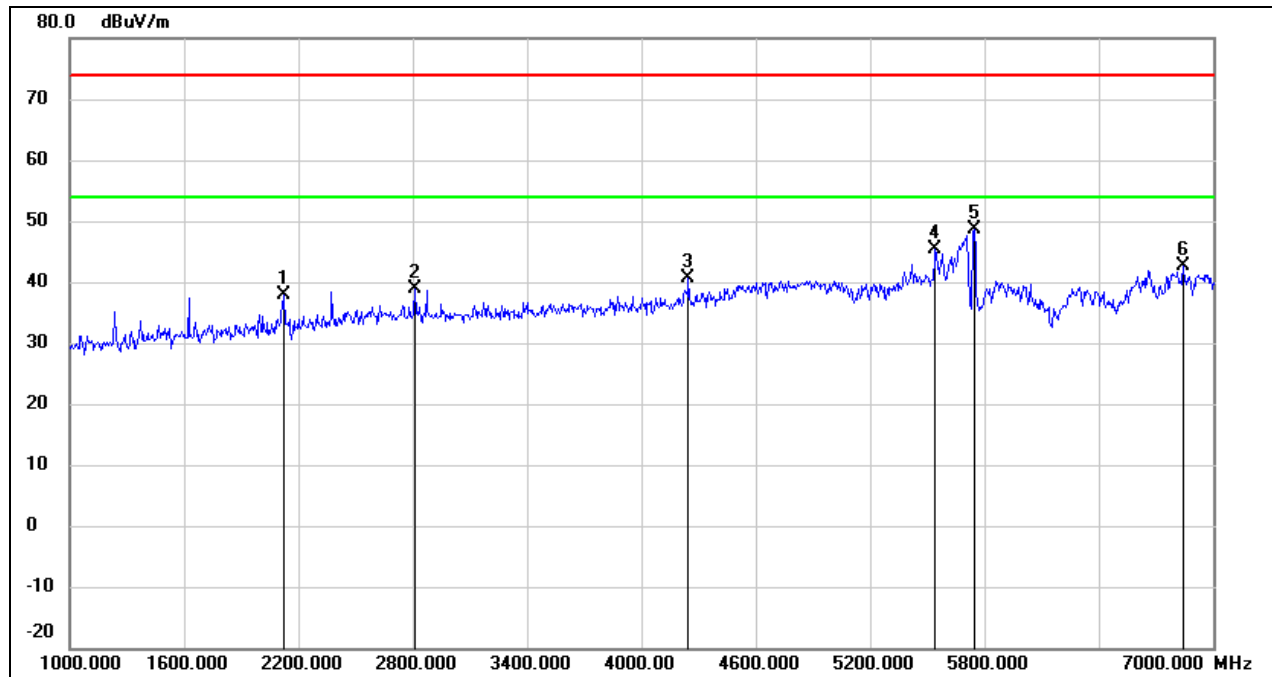
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	53.64	-12.30	41.34	74.00	-32.66	peak
2	2122.000	52.39	-10.43	41.96	74.00	-32.04	peak
3	4954.000	40.55	-0.33	40.22	74.00	-33.78	peak
4	5416.000	42.40	0.32	42.72	74.00	-31.28	peak
5	5758.000	43.34	1.16	44.50	74.00	-29.50	peak
6	6970.000	36.78	6.05	42.83	74.00	-31.17	peak

Test Mode:	802.11a 20	Channel:	5720 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



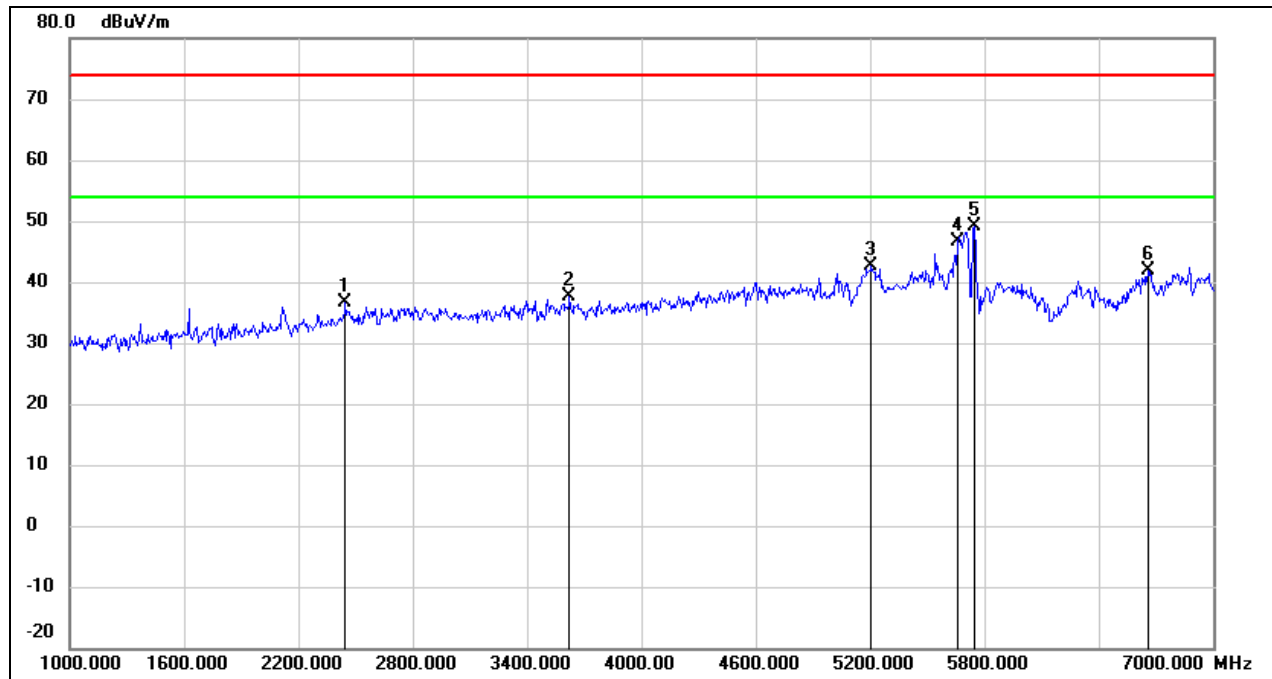
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	52.49	-12.30	40.19	74.00	-33.81	peak
2	1948.000	51.85	-11.23	40.62	74.00	-33.38	peak
3	4000.000	45.66	-4.48	41.18	74.00	-32.82	peak
4	5410.000	42.44	0.32	42.76	74.00	-31.24	peak
5	5758.000	43.63	1.16	44.79	74.00	-29.21	peak

Test Mode:	802.11a 20	Channel:	5745 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



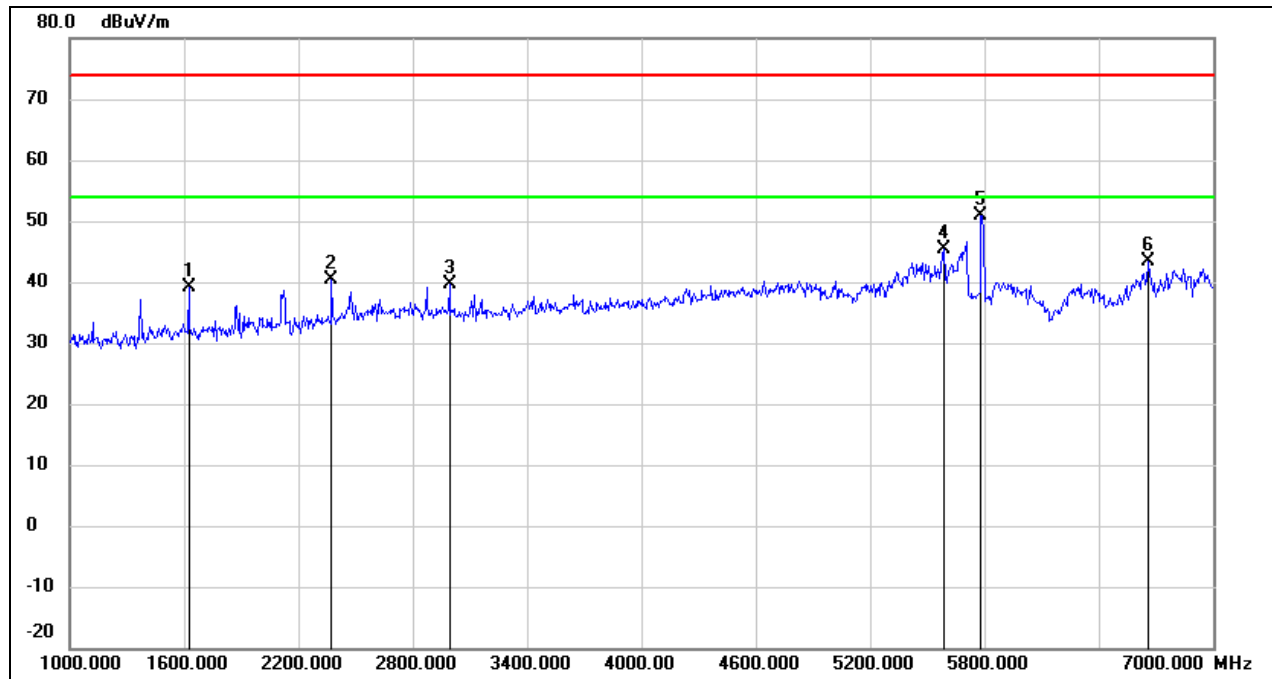
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2122.000	48.23	-10.43	37.80	74.00	-36.20	peak
2	2812.000	46.32	-7.55	38.77	74.00	-35.23	peak
3	4246.000	43.98	-3.33	40.65	74.00	-33.35	peak
4	5542.000	44.83	0.53	45.36	74.00	-28.64	peak
5	5746.000	47.56	1.12	48.68	74.00	-25.32	peak
6	6844.000	37.13	5.43	42.56	74.00	-31.44	peak

Test Mode:	802.11a 20	Channel:	5745 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



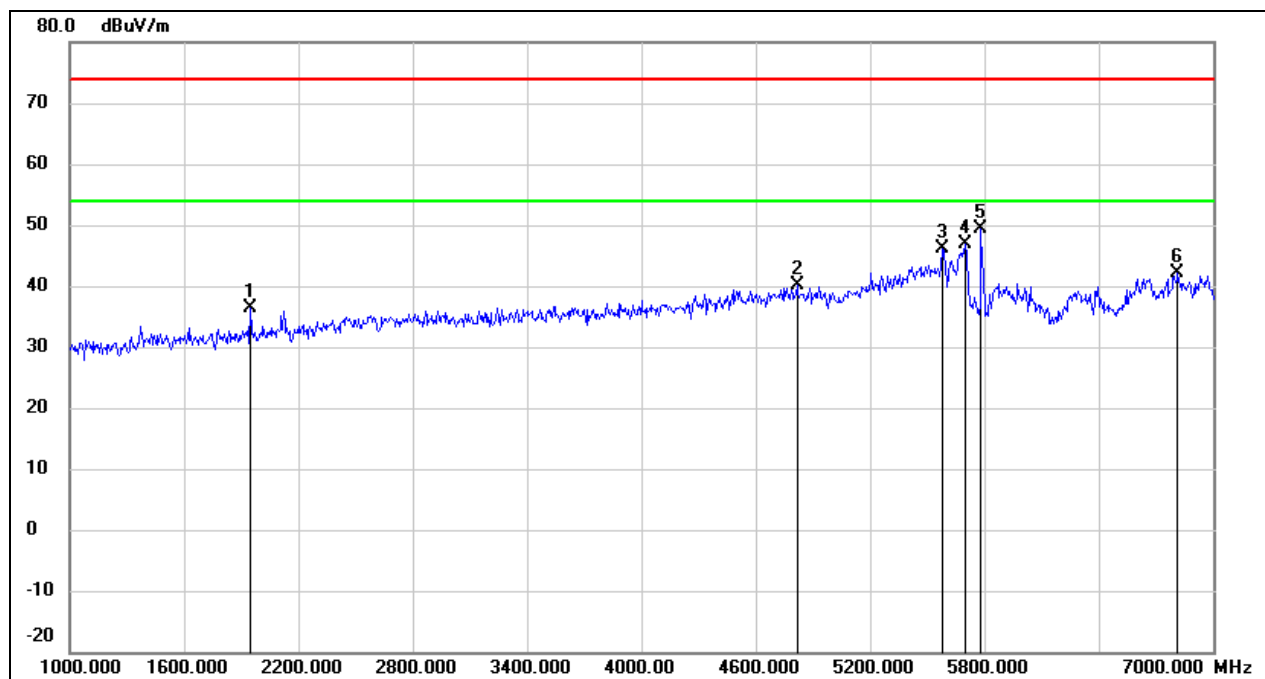
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2446.000	45.35	-8.77	36.58	74.00	-37.42	peak
2	3622.000	43.21	-5.52	37.69	74.00	-36.31	peak
3	5206.000	42.46	0.08	42.54	74.00	-31.46	peak
4	5662.000	45.69	0.89	46.58	74.00	-27.42	peak
5	5746.000	47.99	1.12	49.11	74.00	-24.89	peak
6	6658.000	37.48	4.49	41.97	74.00	-32.03	peak

Test Mode:	802.11a 20	Channel:	5785 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



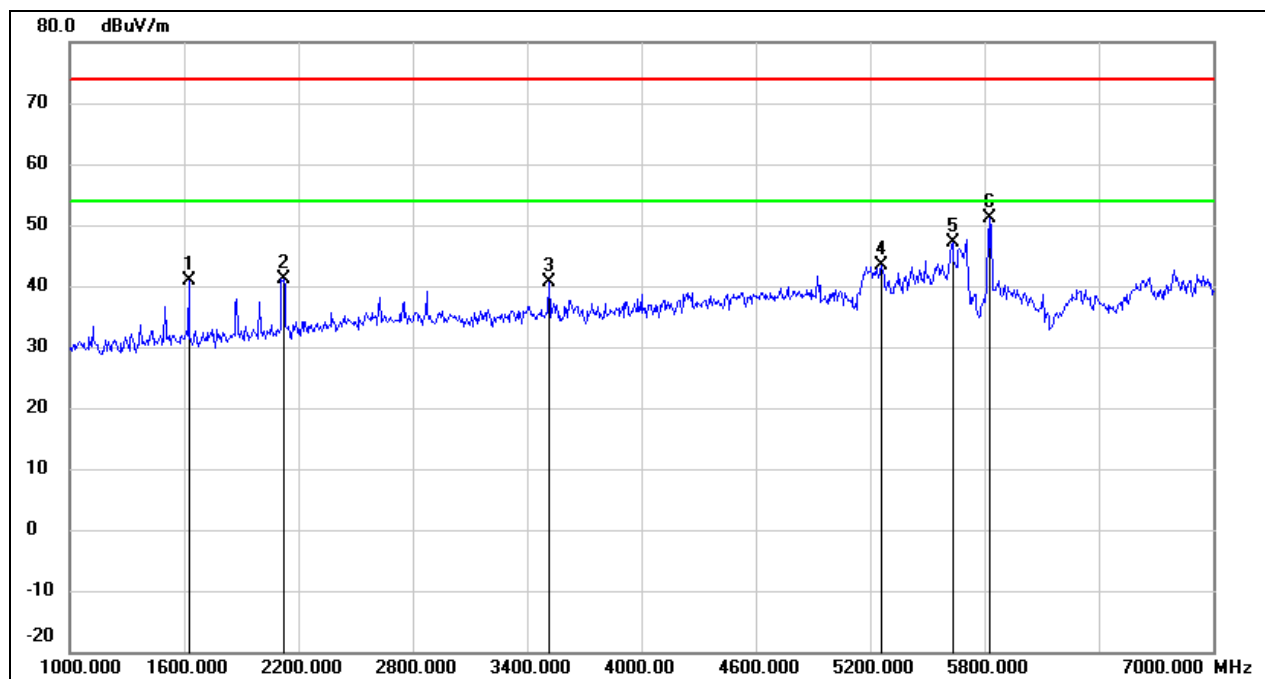
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	51.38	-12.30	39.08	74.00	-34.92	peak
2	2374.000	49.46	-9.14	40.32	74.00	-33.68	peak
3	2992.000	46.67	-7.00	39.67	74.00	-34.33	peak
4	5584.000	44.72	0.66	45.38	74.00	-28.62	peak
5	5782.000	49.62	1.23	50.85	74.00	-23.15	peak
6	6658.000	38.82	4.49	43.31	74.00	-30.69	peak

Test Mode:	802.11a 20	Channel:	5785 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



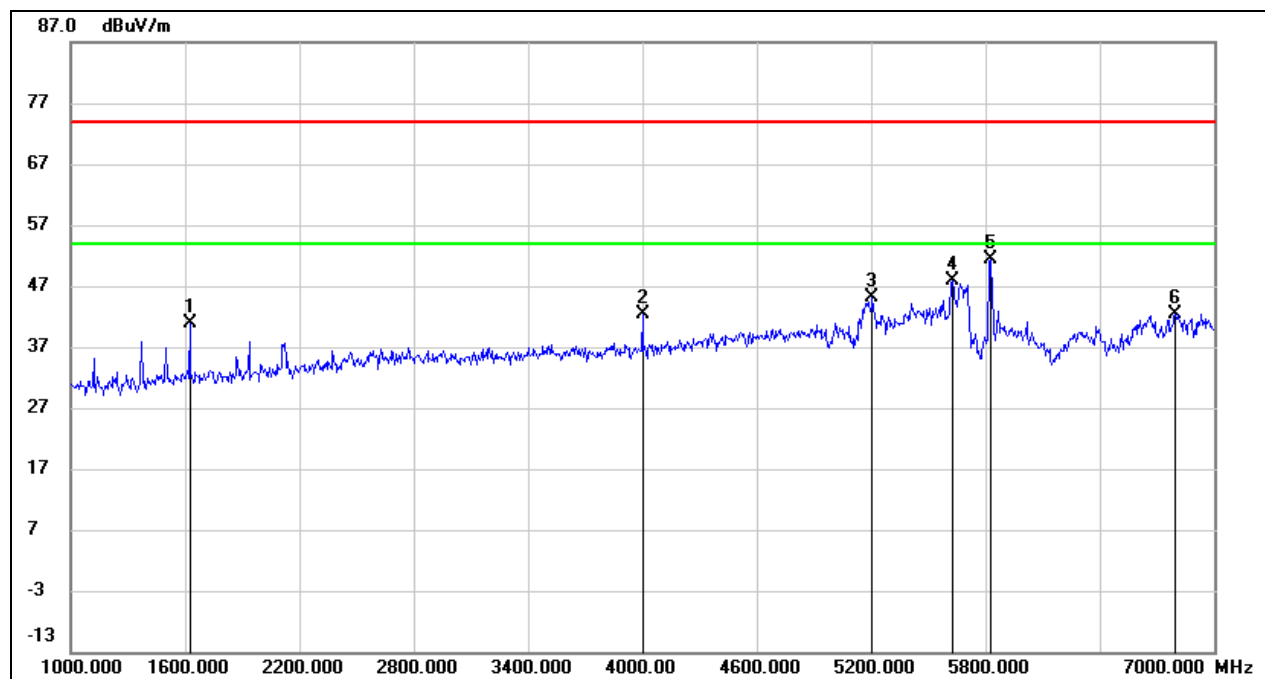
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1948.000	47.55	-11.23	36.32	74.00	-37.68	peak
2	4816.000	41.09	-0.89	40.20	74.00	-33.80	peak
3	5578.000	45.60	0.65	46.25	74.00	-27.75	peak
4	5698.000	45.78	0.99	46.77	74.00	-27.23	peak
5	5782.000	48.22	1.23	49.45	74.00	-24.55	peak
6	6814.000	36.87	5.28	42.15	74.00	-31.85	peak

Test Mode:	802.11a 20	Channel:	5825 MHz
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	1624.000	53.22	-12.30	40.92	74.00	-33.08	peak
2	2122.000	51.53	-10.43	41.10	74.00	-32.90	peak
3	3514.000	46.40	-5.81	40.59	74.00	-33.41	peak
4	5260.000	43.14	0.15	43.29	74.00	-30.71	peak
5	5632.000	46.36	0.79	47.15	74.00	-26.85	peak
6	5830.000	49.70	1.36	51.06	74.00	-22.94	peak

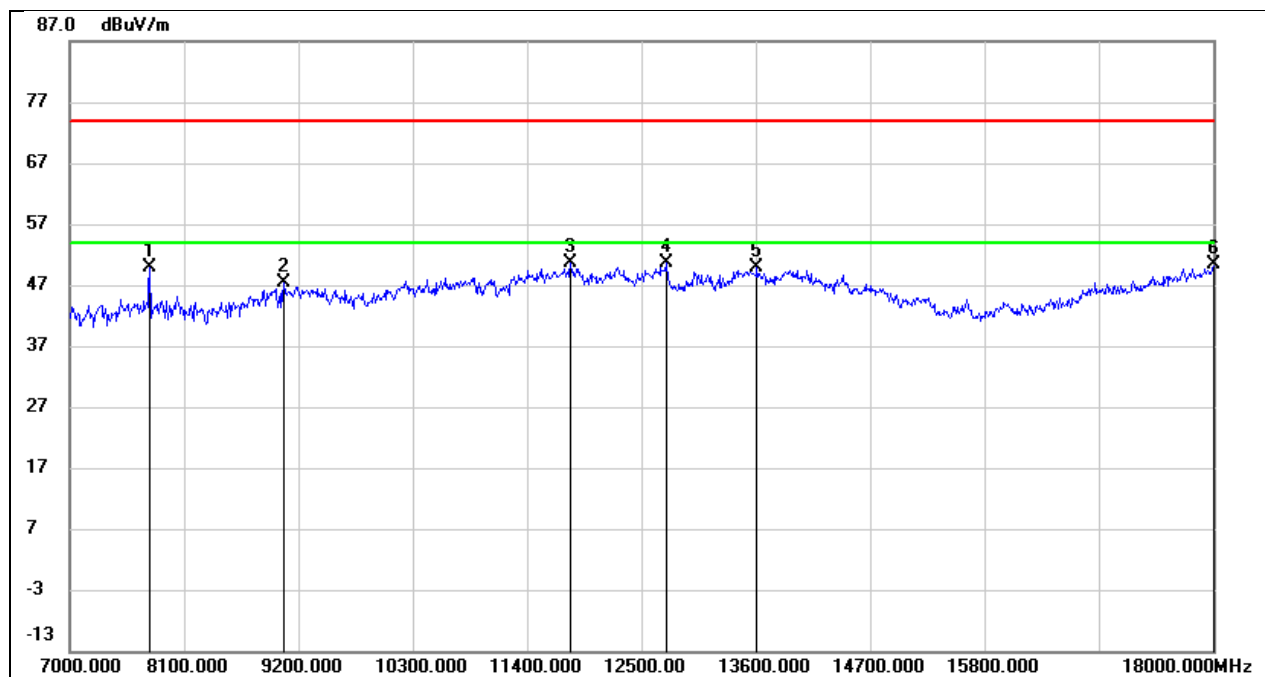
Test Mode:	802.11a 20	Channel:	5825 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	53.26	-12.30	40.96	74.00	-33.04	peak
2	4000.000	46.86	-4.48	42.38	74.00	-31.62	peak
3	5206.000	45.07	0.08	45.15	74.00	-28.85	peak
4	5626.000	47.09	0.78	47.87	74.00	-26.13	peak
5	5824.000	49.99	1.34	51.33	74.00	-22.67	peak
6	6796.000	37.27	5.19	42.46	74.00	-31.54	peak

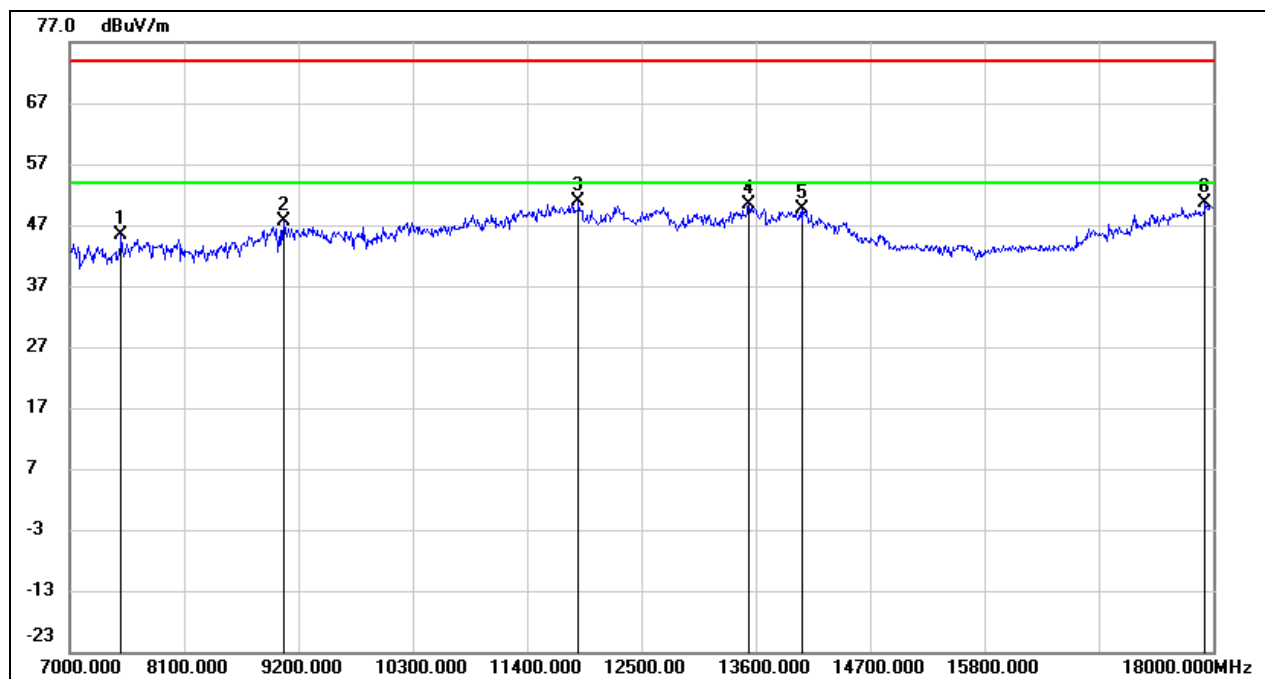
8.3. SPURIOUS EMISSIONS (7 GHZ ~ 18 GHZ)

Test Mode:	802.11a 20	Channel:	5180 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



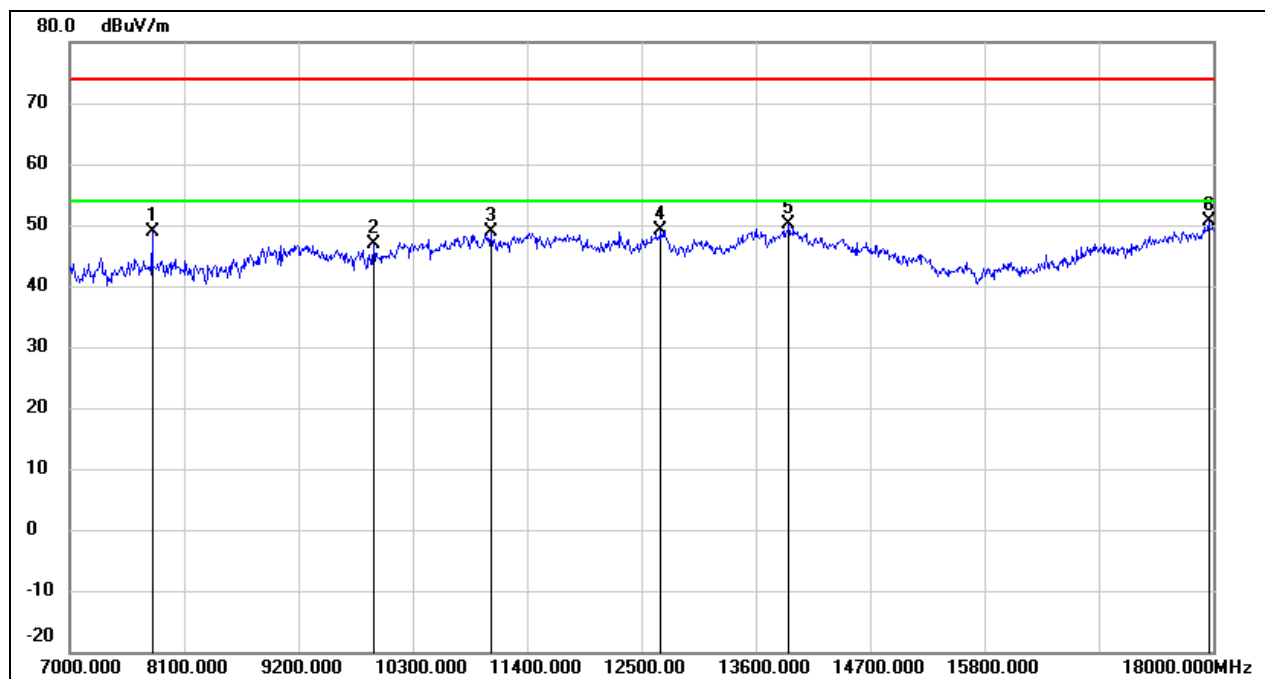
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7770.000	43.27	6.63	49.90	74.00	-24.10	peak
2	9057.000	37.02	10.38	47.40	74.00	-26.60	peak
3	11818.000	33.18	17.36	50.54	74.00	-23.46	peak
4	12742.000	32.41	18.13	50.54	74.00	-23.46	peak
5	13611.000	28.92	20.92	49.84	74.00	-24.16	peak
6	18000.000	24.20	26.12	50.32	74.00	-23.68	peak

Test Mode:	802.11a 20	Channel:	5180 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



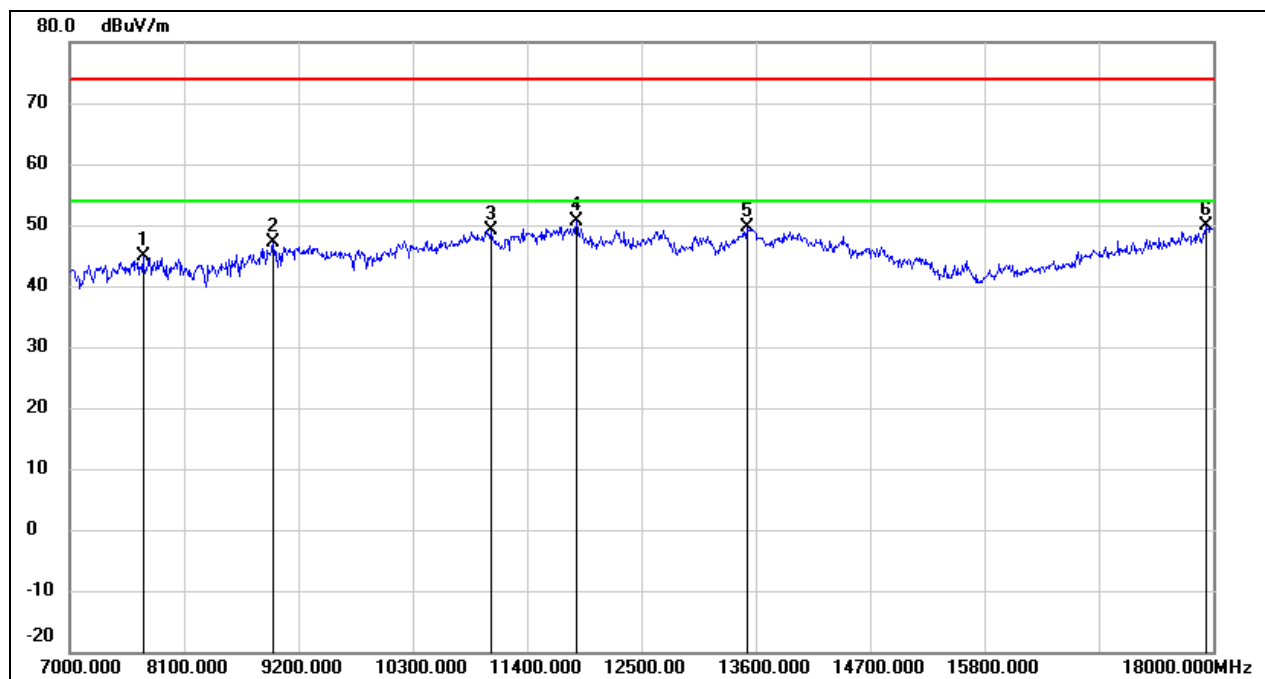
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7495.000	38.60	6.87	45.47	74.00	-28.53	peak
2	9057.000	37.30	10.38	47.68	74.00	-26.32	peak
3	11895.000	33.43	17.51	50.94	74.00	-23.06	peak
4	13534.000	29.53	20.73	50.26	74.00	-23.74	peak
5	14051.000	27.91	21.67	49.58	74.00	-24.42	peak
6	17923.000	25.03	25.60	50.63	74.00	-23.37	peak

Test Mode:	802.11a 20	Channel:	5200 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



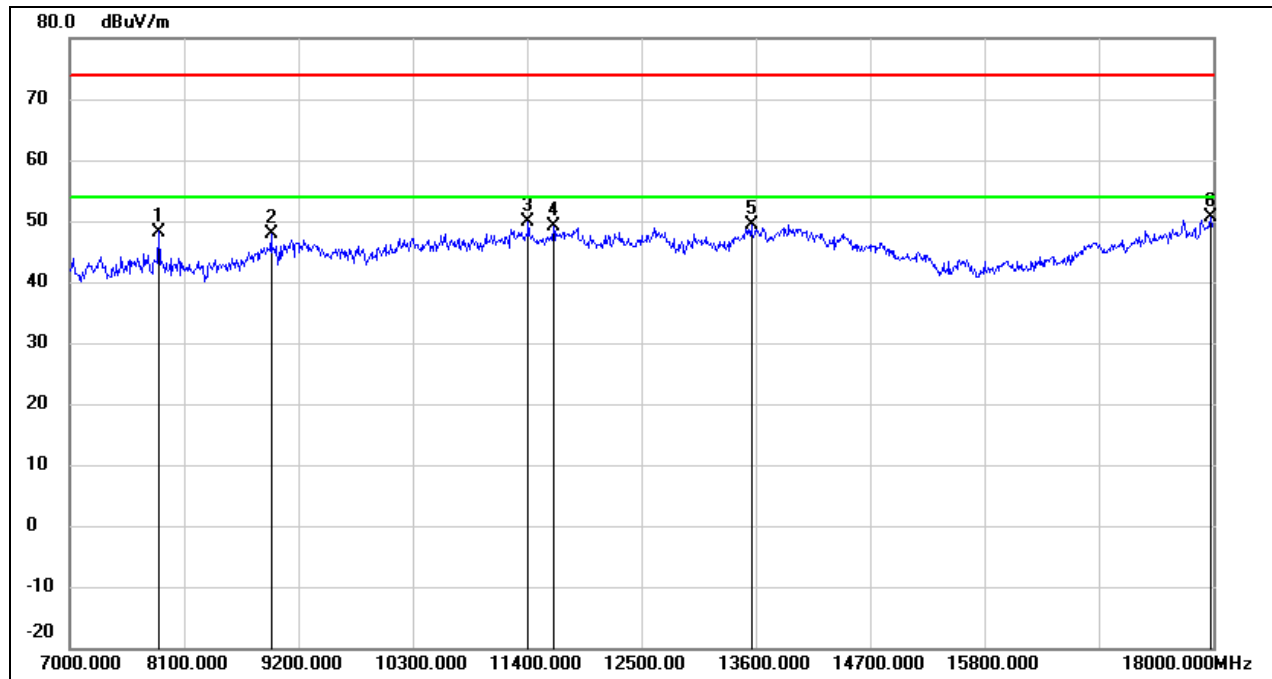
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7792.000	42.23	6.62	48.85	74.00	-25.15	peak
2	9926.000	35.24	11.61	46.85	74.00	-27.15	peak
3	11048.000	34.06	14.91	48.97	74.00	-25.03	peak
4	12687.000	31.18	18.05	49.23	74.00	-24.77	peak
5	13919.000	28.47	21.68	50.15	74.00	-23.85	peak
6	17956.000	24.76	25.82	50.58	74.00	-23.42	peak

Test Mode:	802.11a 20	Channel:	5200 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



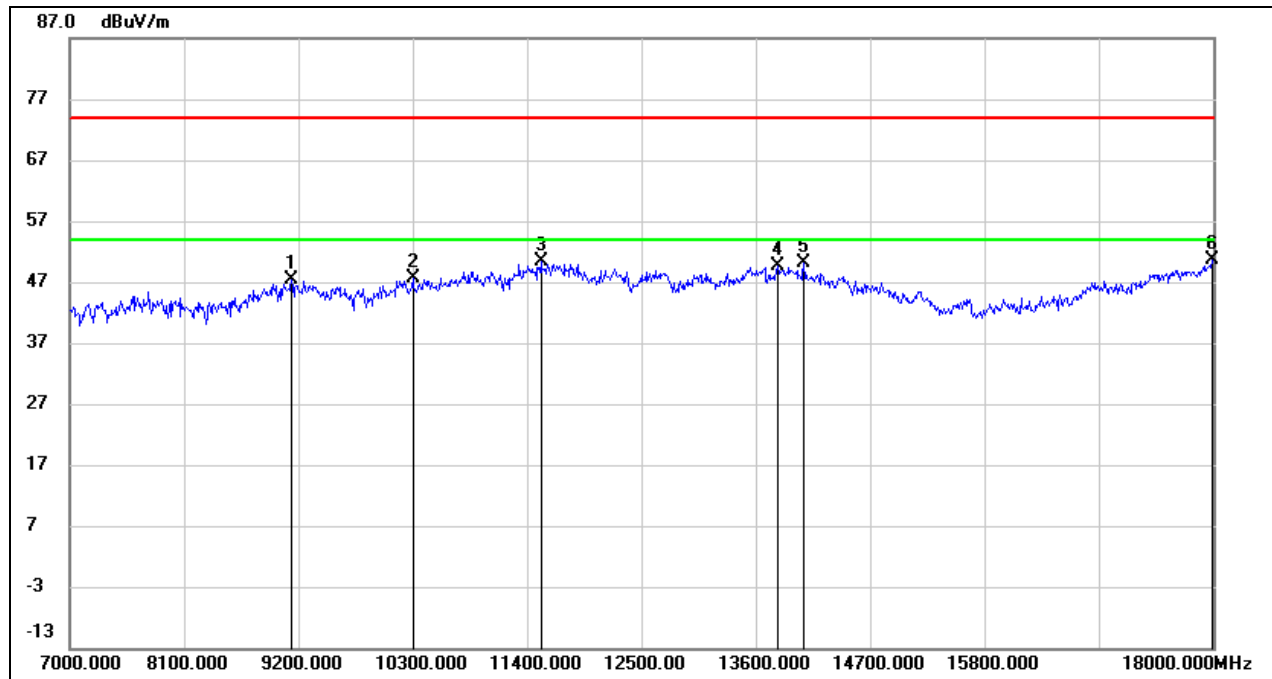
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7704.000	38.16	6.69	44.85	74.00	-29.15	peak
2	8958.000	37.01	10.05	47.06	74.00	-26.94	peak
3	11048.000	34.24	14.91	49.15	74.00	-24.85	peak
4	11873.000	33.15	17.46	50.61	74.00	-23.39	peak
5	13512.000	29.06	20.68	49.74	74.00	-24.26	peak
6	17934.000	24.26	25.67	49.93	74.00	-24.07	peak

Test Mode:	802.11a 20	Channel:	5240 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



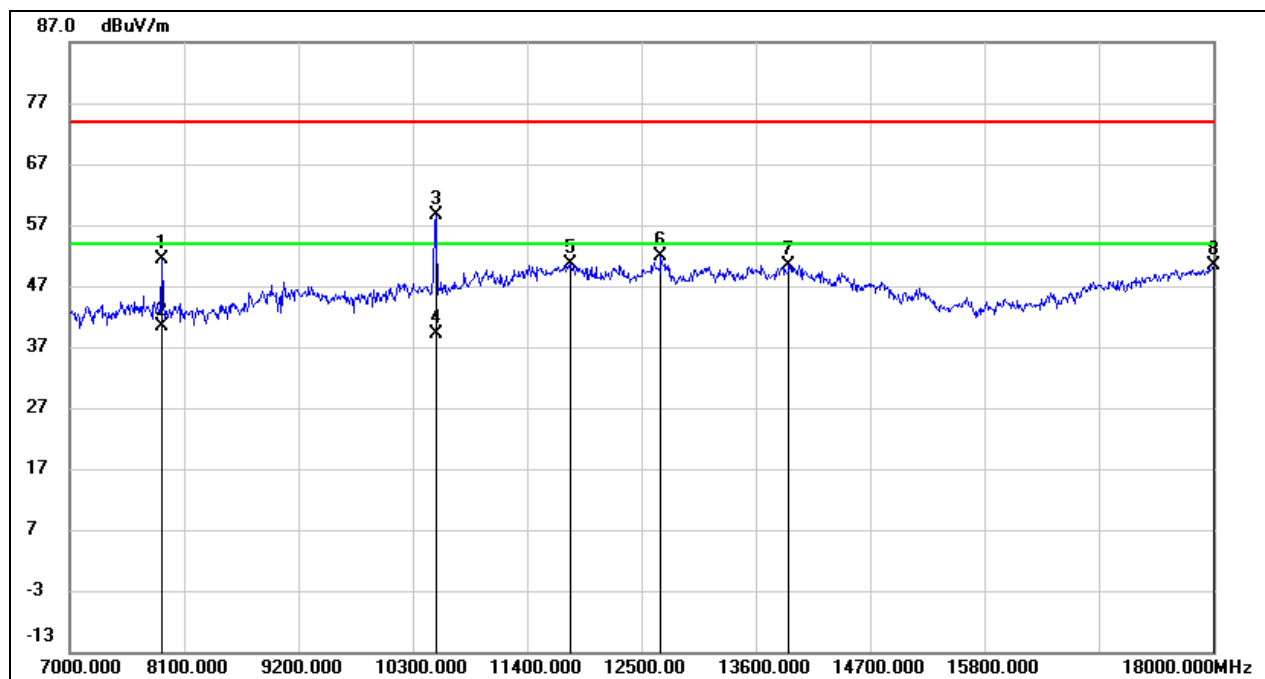
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7858.000	41.70	6.55	48.25	74.00	-25.75	peak
2	8936.000	37.88	9.90	47.78	74.00	-26.22	peak
3	11411.000	33.46	16.41	49.87	74.00	-24.13	peak
4	11653.000	32.20	17.05	49.25	74.00	-24.75	peak
5	13556.000	28.49	20.78	49.27	74.00	-24.73	peak
6	17978.000	24.67	25.97	50.64	74.00	-23.36	peak

Test Mode:	802.11a 20	Channel:	5240 MHz
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	9134.000	37.04	10.41	47.45	74.00	-26.55	peak
2	10300.000	35.20	12.40	47.60	74.00	-26.40	peak
3	11532.000	33.53	16.83	50.36	74.00	-23.64	peak
4	13809.000	28.26	21.41	49.67	74.00	-24.33	peak
5	14062.000	28.41	21.62	50.03	74.00	-23.97	peak
6	17989.000	24.61	26.04	50.65	74.00	-23.35	peak

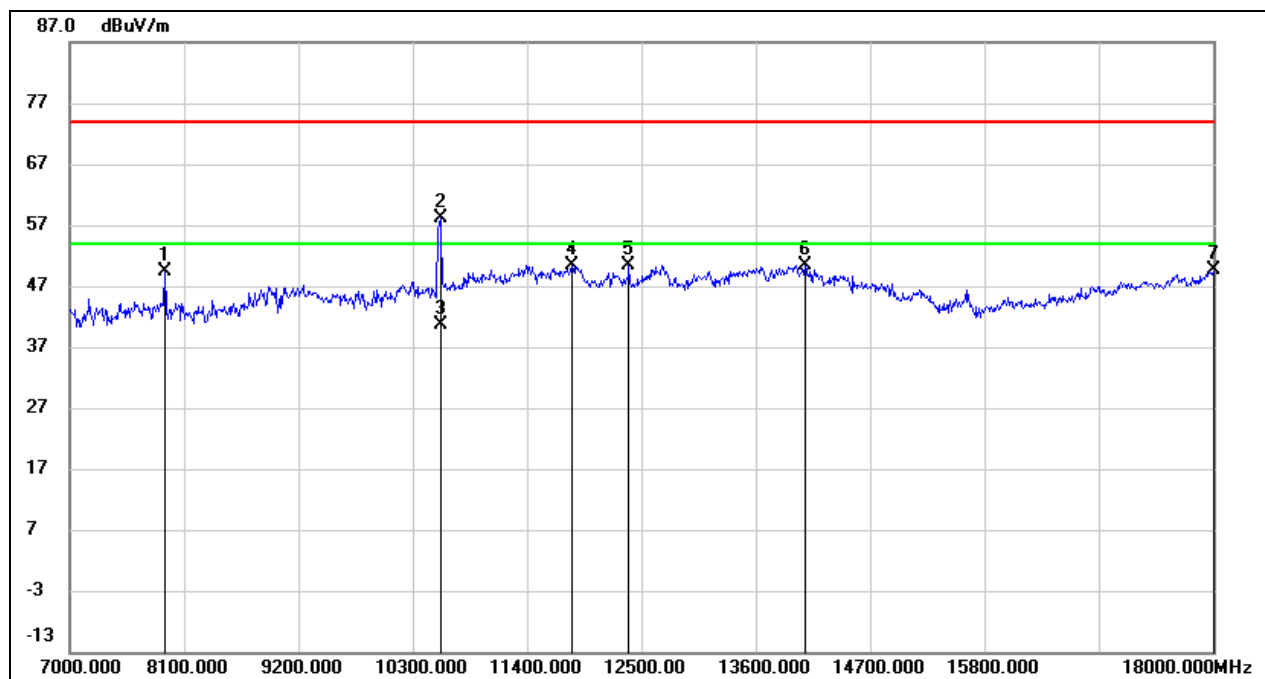
Test Mode:	802.11a 20	Channel:	5260 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7891.000	44.82	6.52	51.34	74.00	-22.66	peak
2	7891.000	33.98	6.52	40.50	54.00	-13.50	AVG
3	10520.000	45.80	12.90	58.70	74.00	-15.30	peak
4	10520.000	26.33	12.90	39.23	54.00	-14.77	AVG
5	11818.000	33.17	17.36	50.53	74.00	-23.47	peak
6	12687.000	33.75	18.05	51.80	74.00	-22.20	peak
7	13919.000	28.79	21.68	50.47	74.00	-23.53	peak
8	18000.000	24.16	26.12	50.28	74.00	-23.72	peak

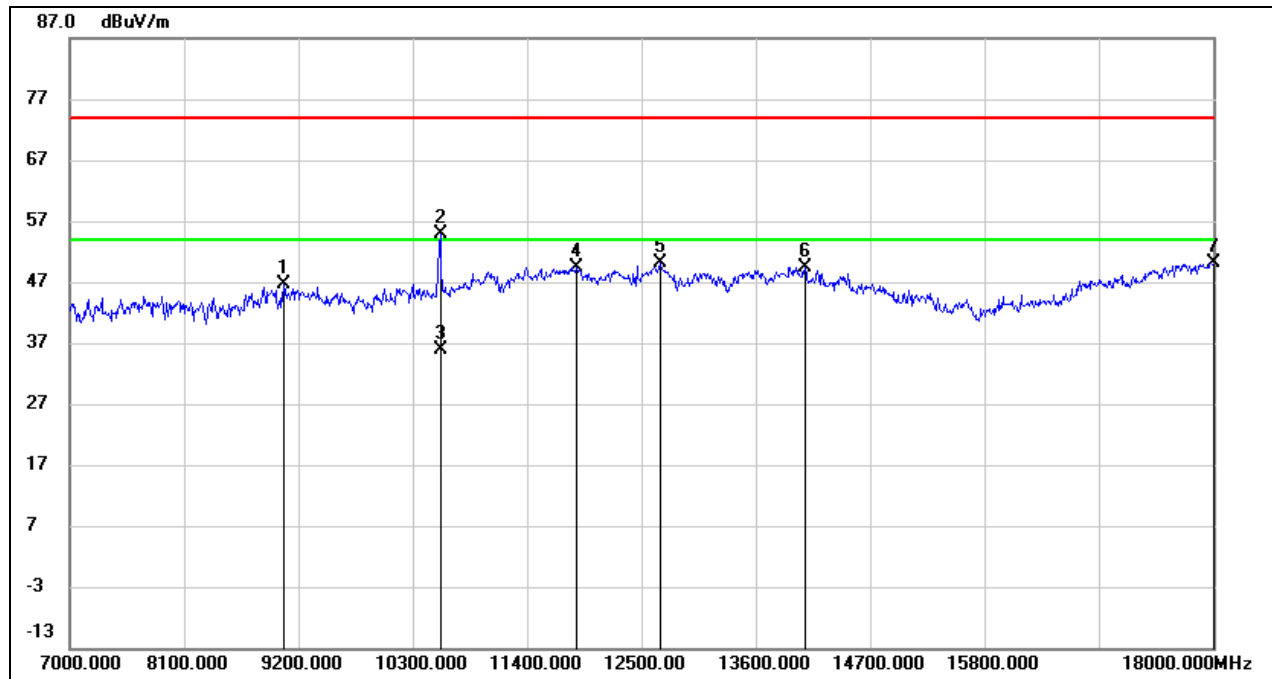
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7891.000	39.19	6.52	45.71	74.00	-28.29	peak
2	9299.000	36.28	10.53	46.81	74.00	-27.19	peak
3	10520.000	42.21	12.90	55.11	74.00	-18.89	peak
4	10520.000	23.67	12.90	36.57	54.00	-17.43	AVG
5	12698.000	31.75	18.08	49.83	74.00	-24.17	peak
6	13600.000	29.18	20.89	50.07	74.00	-23.93	peak
7	17989.000	24.57	26.04	50.61	74.00	-23.39	peak

Test Mode:	802.11a 20	Channel:	5280 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V



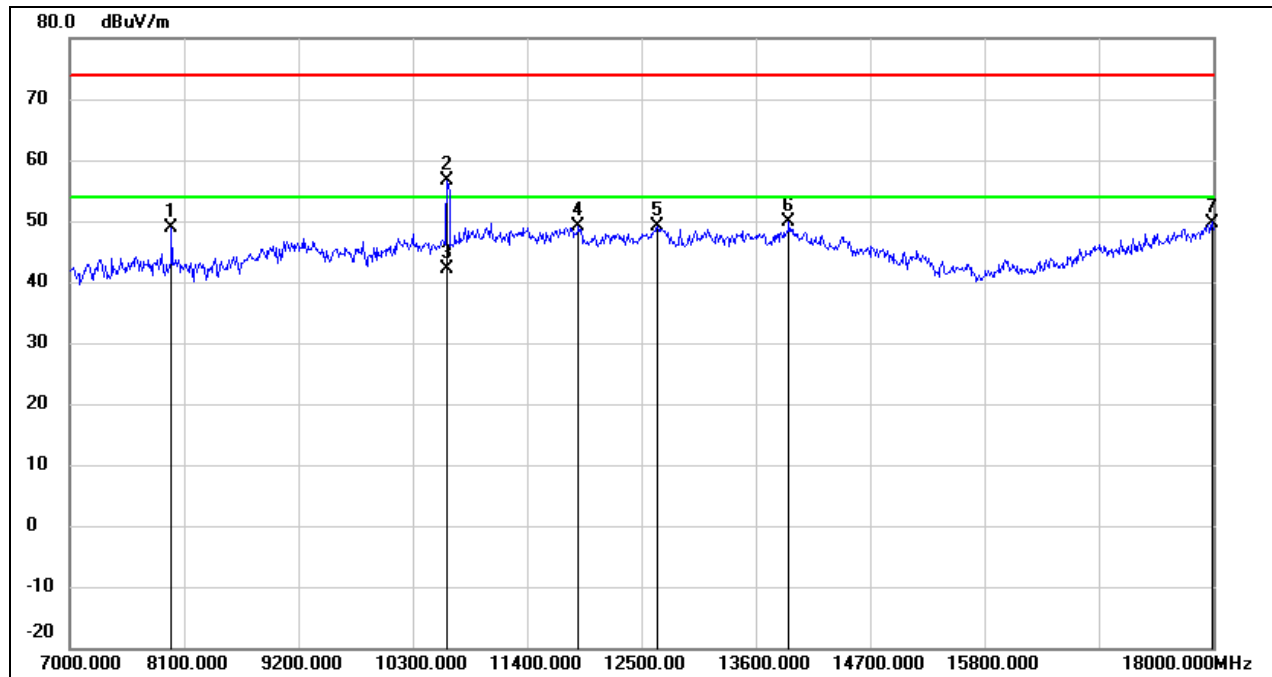
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7913.000	42.97	6.51	49.48	74.00	-24.52	peak
2	10564.000	45.01	13.06	58.07	74.00	-15.93	peak
3	10564.000	27.52	13.06	40.58	54.00	-13.42	AVG
4	11829.000	33.00	17.38	50.38	74.00	-23.62	peak
5	12379.000	32.55	17.80	50.35	74.00	-23.65	peak
6	14073.000	28.92	21.57	50.49	74.00	-23.51	peak
7	18000.000	23.43	26.12	49.55	74.00	-24.45	peak

Test Mode:	802.11a 20	Channel:	5280 MHz
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	9057.000	36.34	10.38	46.72	74.00	-27.28	peak
2	10564.000	41.87	13.06	54.93	74.00	-19.07	peak
3	10564.000	22.70	13.06	35.76	54.00	-18.24	AVG
4	11873.000	32.00	17.46	49.46	74.00	-24.54	peak
5	12687.000	32.15	18.05	50.20	74.00	-23.80	peak
6	14073.000	27.93	21.57	49.50	74.00	-24.50	peak
7	18000.000	24.12	26.12	50.24	74.00	-23.76	peak

Test Mode:	802.11a 20	Channel:	5320 MHz
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	7979.000	42.45	6.45	48.90	74.00	-25.10	peak
2	10630.000	43.21	13.31	56.52	74.00	-17.48	peak
3	10630.000	28.90	13.31	42.21	54.00	-11.79	AVG
4	11895.000	31.53	17.51	49.04	74.00	-24.96	peak
5	12654.000	31.16	18.01	49.17	74.00	-24.83	peak
6	13919.000	28.30	21.68	49.98	74.00	-24.02	peak
7	17989.000	23.71	26.04	49.75	74.00	-24.25	peak