

TEST REPORT

Reference No..... : WTD24X01019434W001
FCC ID : 2BEPN-M46Q
Applicant : WEWINS TECHNOLOGY LIMITED
Address : Room 1003, 10/F, Tower 1, Lippo Centre, 89 Queensway, Admiralty, Hong Kong
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : 5G Mifi
Model No..... : M46Q
Standards : FCC Part 15.407
Date of Receipt sample : 2024-01-24
Date of Test..... : 2024-01-24 to 2024-02-23; 2024-02-29 to 2024-04-12
Date of Issue : 2024-04-12
Test Report Form No. : WTX_Part 15_407W
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

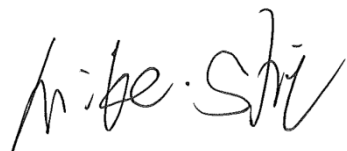
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Report version

Version No.	Date of issue	Description
Rev.00	2024-04-12	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	5G Mifi
Trade Name:	/
Model No.:	M46Q
Adding Model(s):	/
Rated Voltage:	Adapter DC5V; Battery DC3.85V
Battery Capacity:	/
Power Adapter:	GQ15-050300-ZU Input:AC100-240v~50/60Hz 0.5A Output:DC5V3.0A
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11a, 802.11n-HT20/40, 802.11ac-VHT20/40/80, 802.11ax-HE20/40/80
Frequency Range:	5180-5240MHz, 5260-5320MHz 5500-5700MHz, 5745-5825MHz
Max. RF Output Power:	Antenna 0: 19.93dBm (Conducted) Antenna 1: 19.87dBm (Conducted)
Type of Modulation:	BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM
Type of Antenna:	FPC Antenna
Antenna Gain:	Antenna 0: 2.69dBi Antenna 1: 5.4dBi
<i>Note The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.407: General technical requirements.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

KDB789033 D02 v02r01: Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-Nii) Devices Part 15, Subparte.

KDB662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB789033 D02 v02r01. The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Table for parameters of Test Software setting

Use “QSPR.exe” and follow the instructions given by the manufacturer, you can start to test. During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. Test use the customer default power level, with a duty cycle equal to 100 %, and to measure its highest possible emissions level, more detailed description as follows:

Antenna 0 and Antenna 1

Mode	Test Frequency (MHz)											
	NCB: 20MHz											
	5180	5200	5240	5260	5300	5320	5500	5600	5700	5745	5785	5825
802.11a 6Mbps	20	20	20	18	18	18	19	19	19	22	22	22
802.11n-HT20 MCS0	20	20	20	18	18	18	19	19	19	22	22	22
802.11ac-HT20 MCS0	20	20	20	18	18	18	18	18	18	22	22	22
802.11ax-HE20 MCS0	20	20	20	18	18	18	18	18	18	22	22	22
Mode	NCB: 40MHz											
	5190	5230	5270	5310	5510	5550	5670	5710	5755	5795		
802.11n-HT40 MCS0	19	19	17.5	17.5	18	18	18	/	21	21		

802.11ax-HT40 MCS0	19	19	17.5	17.5	18	18	18	/	21	21	
802.11ax-HE40 MCS0	19	19	17.5	17.5	18	18	18	/	21	21	
Mode	NCB: 80MHz										
	5210		5290		5530		5610		5690		5775
802.11ac-HT80 MCS0/Nss2	19		17.5		18		18		/		21
802.11ac-HE80 MCS0/Nss2	19		17.5		18		18		/		21

1.5 EUT Operating during test

EUT was programmed to be in continuously transmitting mode. During the test, EUT operation to normal function and programs under Android were executed.

1.6 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C. (518101)

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

1.7 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11a	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz ,5600MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM2	802.11n-HT20	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz ,5600MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM3	802.11ac-HT20	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz ,5600MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM4	802.11ax-HE20	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz ,5600MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM5	802.11n-HT40	5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5590MHz,5670MHz ,5755MHz,5795MHz
TM6	802.11ac-HT40	5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5590MHz,5670MHz ,5755MHz,5795MHz
TM7	802.11ax-HE40	5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5590MHz,5670MHz ,5755MHz,5795MHz
TM8	802.11ac-HT80	5210MHz,5290MHz,5530MHz,5610MHz,5775MHz
TM9	802.11ax-HE80	5210MHz,5290MHz,5530MHz,5610MHz,5775MHz
Note1 : All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report. Note 2: The 5GHz WIFI has two antennas and support Multiple Outputs for 802.11n/ac/ax mode for this report; Antenna 0 Gain is 2.69dBi; Antenna 1 Gain is 5.4dBi According to KDB 662911, If transmit signals are correlated, then Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi = 7.16 dBi		

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Type-C Cable	1.0	Shielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.8 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-18GHz $\pm 3.92\text{dB}$

1.9 Test Equipment List and Details

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2023-02-25	2024-02-24
WTXE1022A 1002	GSM Tester	Rohde & Schwarz	CMU200	114403	2023-02-25	2024-02-24
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2023-02-25	2024-02-24
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2023-02-25	2024-02-24
WTXE1044A 1001	Signal Generator	Agilent	83752A	3610A014 53	2023-02-25	2024-02-24
WTXE1045A 1001	Vector Signal Generator	Agilent	N5182A	MY470702 02	2023-02-25	2024-02-24
WTXE1018A 1001	Power Divider	Weinschel	1506A	PM204	2023-02-25	2024-02-24
WTXE1045A 1001	Power Divider	RF-Lambda	RFLT4W5M18G	14110400 027	2023-02-25	2024-02-24
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2023-02-25	2024-02-24
WTXE1007A 1001	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/00 5	2023-02-25	2024-02-24
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2023-02-25	2024-02-24
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2023-03-20	2026-03-19
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2023-02-25	2024-02-24
WTXE1007A 1001	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/00 5	2023-02-25	2024-02-24
WTXE1065A 1001	Amplifier	C&D	PAP-1G18	14918	2023-02-25	2024-02-24
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2021-03-19	2024-03-18
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2021-03-19	2024-03-18
WTXE1003A	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2023-02-25	2024-02-24

1001						
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2024-04-08
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2023-02-25	2024-02-24
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2023-02-25	2024-02-24
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2024-05-27
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2023-02-25	2024-02-24
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2023-02-25	2024-02-24
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2021-03-19	2024-03-18
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2023-02-25	2024-02-24
☐ Conducted Room 1#						
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2023-02-25	2024-02-24
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2023-02-25	2024-02-24
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2023-02-25	2024-02-24
☒ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2023-02-25	2024-02-24
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2023-02-25	2024-02-24

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2024-02-24	2025-02-23
WTXE1022A 1002	GSM Tester	Rohde & Schwarz	CMU200	114403	2024-02-27	2025-02-26
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2024-03-19	2025-03-18
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2024-02-24	2025-02-23
WTXE1044A 1001	Signal Generator	Agilent	83752A	3610A014 53	2024-02-24	2025-02-23
WTXE1045A 1001	Vector Signal Generator	Agilent	N5182A	MY470702 02	2024-02-24	2025-02-23
WTXE1018A 1001	Power Divider	Weinschel	1506A	PM204	2024-02-29	2025-02-28
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2024-02-24	2025-02-23
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2024-02-24	2025-02-23
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1065A 1001	Amplifier	C&D	PAP-1G18	2002	2024-02-27	2025-02-26
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2024-02-26	2025-02-25
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
☐ Chamber B:Below 1GHz						
WTXE1010A	Trilog	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16

1006	Broadband Antenna					
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2024-02-24	2025-02-23
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2024-02-24	2025-02-23
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2024-05-27
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2024-02-24	2025-02-23
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2024-02-27	2025-02-26
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
☐ Conducted Room 1#						
WTXE1104A 1029	EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2023-12-12	2024-12-11
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2024-02-24	2025-02-23
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2024-02-24	2025-02-23
☒ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2024-02-24	2025-02-23
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2024-02-24	2025-02-23

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission Room 1#)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission Room 2#)*	SKET	EMC-I	V2.0

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.405	Antenna Requirement	Compliant
15.407 (c)	Automatically Discontinue Transmission	Compliant
§15.207; §15.407(b)(6)	Conducted Emission	Compliant
§15.407(a)(1),(2)	Power Spectral Density	Compliant
§15.407(e)	Emission Bandwidth and Occupied Bandwidth	Compliant
§15.407(a)(1),(2)	Maximum Conducted Output Power	Compliant
§15.407(b)(1),(2),(3),(4)	Undesirable emission	Compliant
§15.205; §15.407(b)(1),(2),(3)	Radiated Emission	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.407(h)	Dynamic Frequency Selection (DFS)	Compliant

N/A: Not applicable.

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Evaluation Information

This product has two FPC antennas, fulfill the requirement of this section.

4. Automatically Discontinue Transmission

4.1 Standard Applicable

According to FCC Part 15.407(c), the device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

4.2 Summary of Test Results

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

5. Power Spectral Density

5.1 Standard Applicable

Section 15.407(a) Power limits:

(1) For the band 5.15-5.25GHz.

(iv) For mobile and portable client devices in the 5.15-5.25GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250mW provided the maximum antenna gain does not exceed 6dBi. In addition, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(2) For the 5.25-5.35GHz and 5.47-5.725GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250mW or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(3) For the band 5.725-5.85GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30dBm in any 500kHz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

5.2 Test Procedure

According to 789033 D02 v02r01 General UNII Test Procedures New Rules v02, the following is the measurement procedure.

For devices operating in the bands 5.15-5.25GHz, 5.25-5.35GHz, and 5.47-5.725GHz, the above procedures make use of 1MHz RBW to satisfy directly the 1MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85GHz, the rules specify a measurement bandwidth of 500kHz. Many spectrum analyzers do not have 500kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1MHz, or 500kHz, "provided that the measured power is integrated over the full

reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1MHz, or 500kHz). If measurements are performed using a reduced resolution bandwidth ($< 1\text{ MHz}$, or $< 500\text{kHz}$) and integrated over 1 MHz, or 500kHz bandwidth, the following adjustments to the procedures apply:

- a) Set $\text{RBW} \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $\text{VBW} \geq 3\text{ RBW}$.
- c) If measurement bandwidth of Maximum PSD is specified in 500kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas $\text{RBW} (< 500\text{kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1MHz, add $10\log(1\text{MHz}/\text{RBW})$ to the measured result, whereas $\text{RBW} (< 1\text{MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100kHz for the sections 5.c) and 5.d) above, since $\text{RBW}=100\text{kHz}$ is available on nearly all spectrum analyzers.

5.3 Summary of Test Results/Plots

Please refer to Appendix A

6. Emission Bandwidth and Occupied Bandwidth

6.1 Standard Applicable

According to 15.407(a) and (e):

(1) For the band 5.15-5.25GHz.

(iv) For mobile and portable client devices in the 5.15-5.25GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250mW provided the maximum antenna gain does not exceed 6dBi. In addition, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(2) For the 5.25-5.35GHz and 5.47-5.725GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250mW or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(3) For the band 5.725-5.85GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30dBm in any 500kHz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(e) Within the 5.725-5.85GHz band, the minimum 6dB bandwidth of U-NII devices shall be at least 500kHz.

6.2 Test Procedure

According to 789033 D02 v02r0r section C&D, the following is the measurement procedure.

1. Emission Bandwidth (EBW)

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.

- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. Minimum Emission Bandwidth for the band 5.725-5.85GHz

Section 15.407(e) specifies the minimum 6dB emission bandwidth of at least 500KHz for the band 5.715-5.85GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

D. 99 Percent Occupied Bandwidth

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section II.G.3.d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the EBW to 789033 D02 v02r01 General UNII Test Procedures New Rules v01 define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

The following procedure shall be used for measuring (99 %) power bandwidth:

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1 % to 5 % of the OBW
- 4. Set VBW $\geq 3 \times$ RBW
- 5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- 6. Use the 99 % power bandwidth function of the instrument (if available).
- 7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency.

Reference No.: WTD24X01019434W001

The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

6.3 Summary of Test Results/Plots

Please refer to Appendix B

7. Maximum Conducted Output Power

7.1 Standard Applicable

Section 15.407(a) Power limits:

(1) For the band 5.15-5.25GHz.

(iv) For mobile and portable client devices in the 5.15-5.25GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250mW provided the maximum antenna gain does not exceed 6dBi. In addition, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(2) For the 5.25-5.35GHz and 5.47-5.725GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250mW or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(3) For the band 5.725-5.85GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30dBm in any 500kHz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

7.2 Test Procedure

According to KDB789033 D02 v02r01 section E, the following is the measurement procedure.

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1MHz.
- (iii) Set VBW $\geq$ 3MHz.
- (iv) Number of points in sweep $\geq$ 2 Span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that

narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

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

(vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq$ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

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

7.3 Summary of Test Results/Plots

Please refer to Appendix C

8. Radiated Spurious Emissions

8.1 Standard Applicable

According to §15.407(b), undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25GHz band: All emissions outside of the 5.15-5.35GHz band shall not exceed an e.i.r.p. of -27dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35GHz band: All emissions outside of the 5.15-5.35GHz band shall not exceed an e.i.r.p. of -27dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725GHz band: All emissions outside of the 5.47-5.725GHz band shall not exceed an e.i.r.p. of -27dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85GHz band:
 - (i) All emissions shall be limited to a level of -27dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10dBm/MHz at 25MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6dBm/MHz at 5MHz above or below the band edge, and from 5MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

According to §15.407(b)(6), Unwanted emissions below 1GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

According to §15.407(b)(7), The provisions of §15.205 apply to intentional radiators operating under this section.

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If radiated measurements are performed, field strength is then converted to EIRP as follows:

$$\text{EIRP} = ((E \cdot d)^2) / 30$$

where:

- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

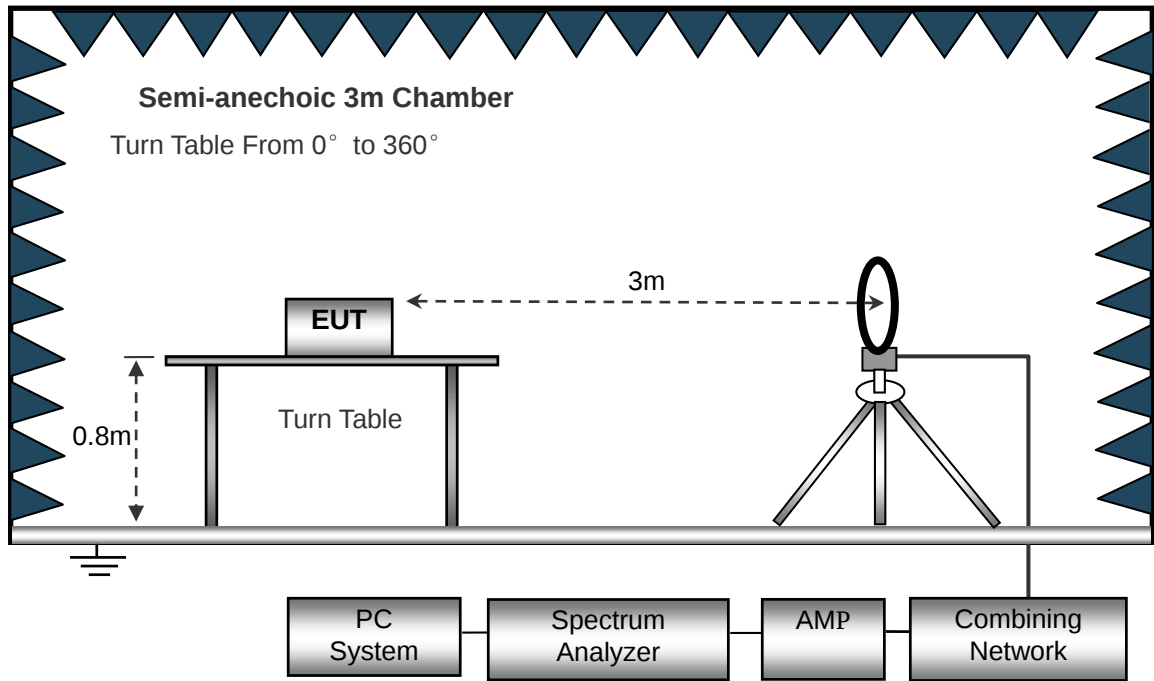
8.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

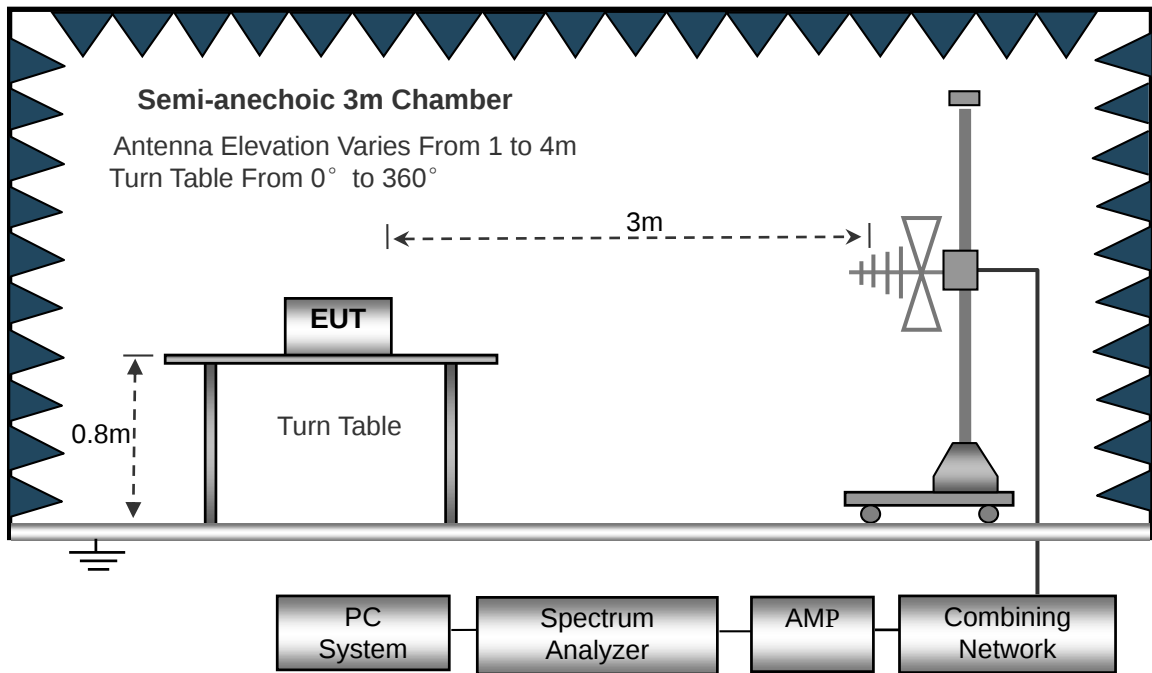
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

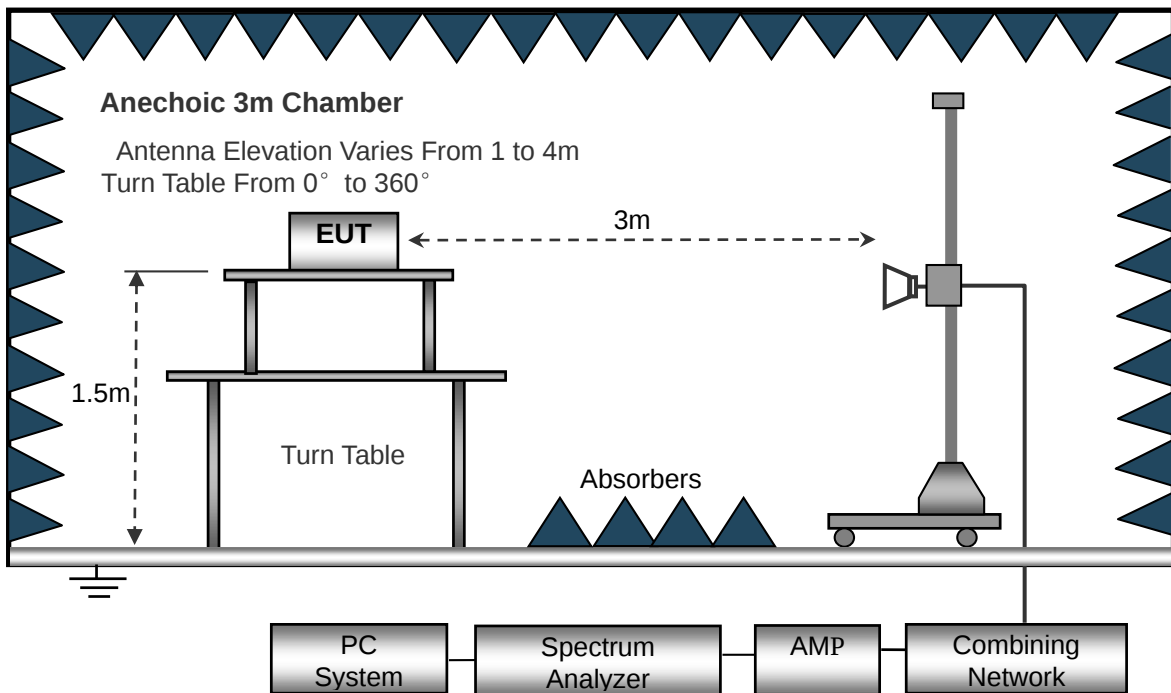
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1GHz.



8.3 Test Receiver Setup

During the radiated emission test for above 1GHz, the test receiver was set with the following configurations:

For peak detector:

RBW = 1000kHz, VBW = 3000kHz, Sweep Time = Auto

For average detector:

RBW = 1000kHz, VBW = 10Hz, Sweep Time = Auto

8.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

8.5 Summary of Test Results/Plots

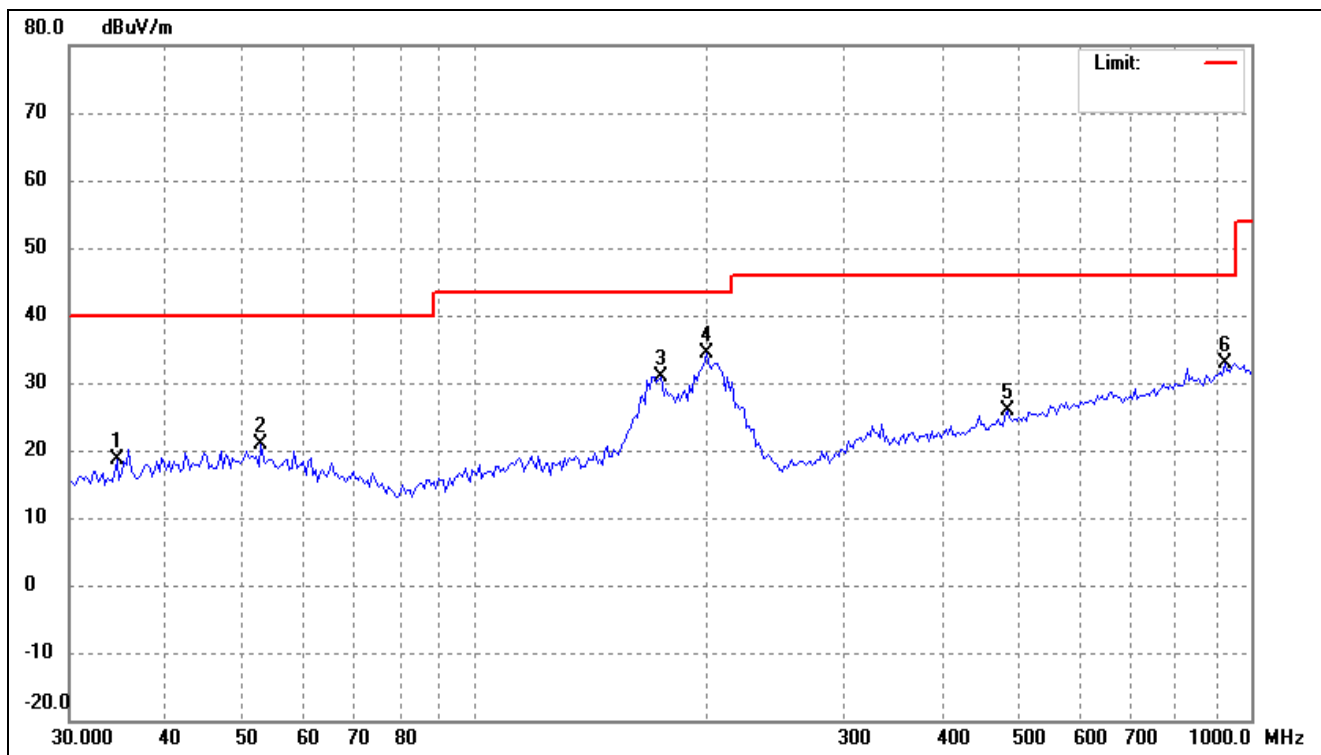
Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

➤ Spurious Emission From 30MHz to 1GHz

➤ Antenna 0

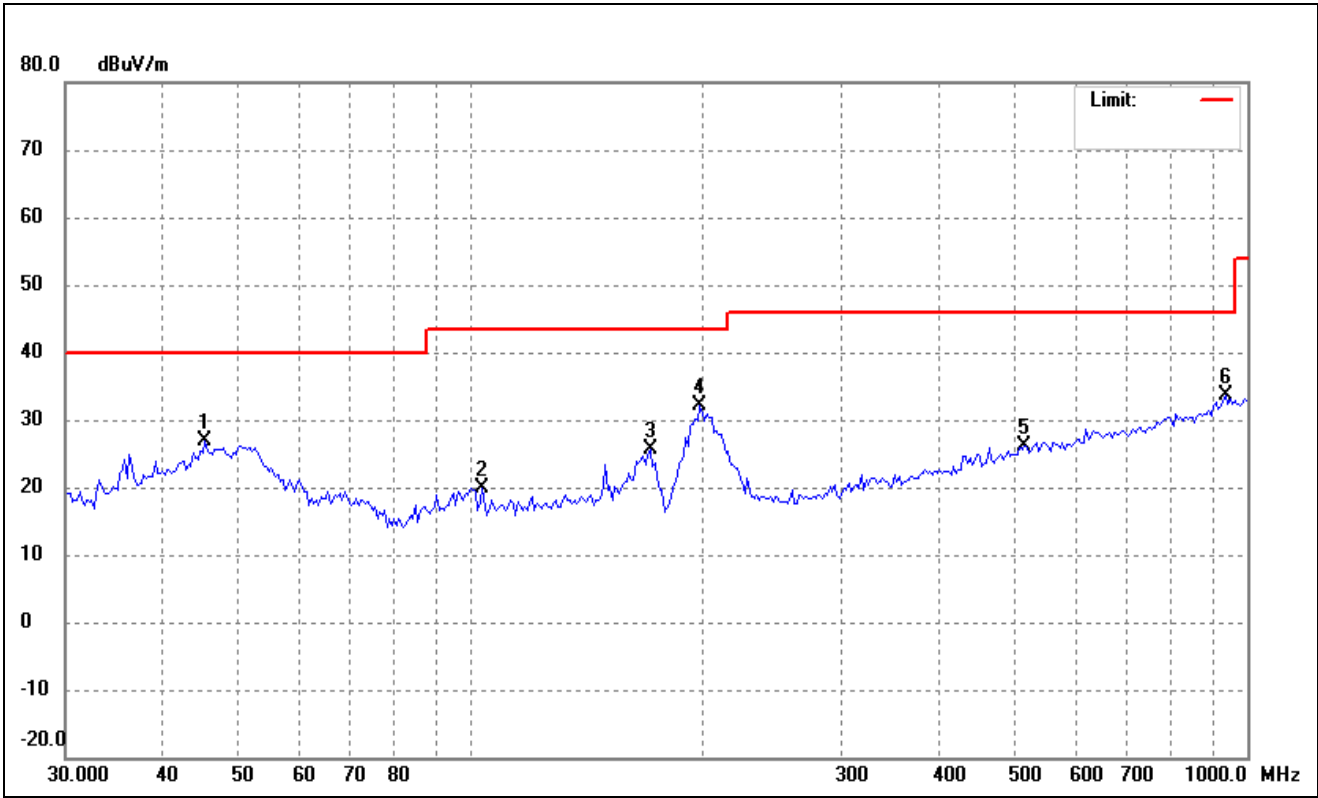
➤ 5150-5250MHz

802.11a			
Test Channel	5180MHz(Worst case)	Polarity:	Horizontal



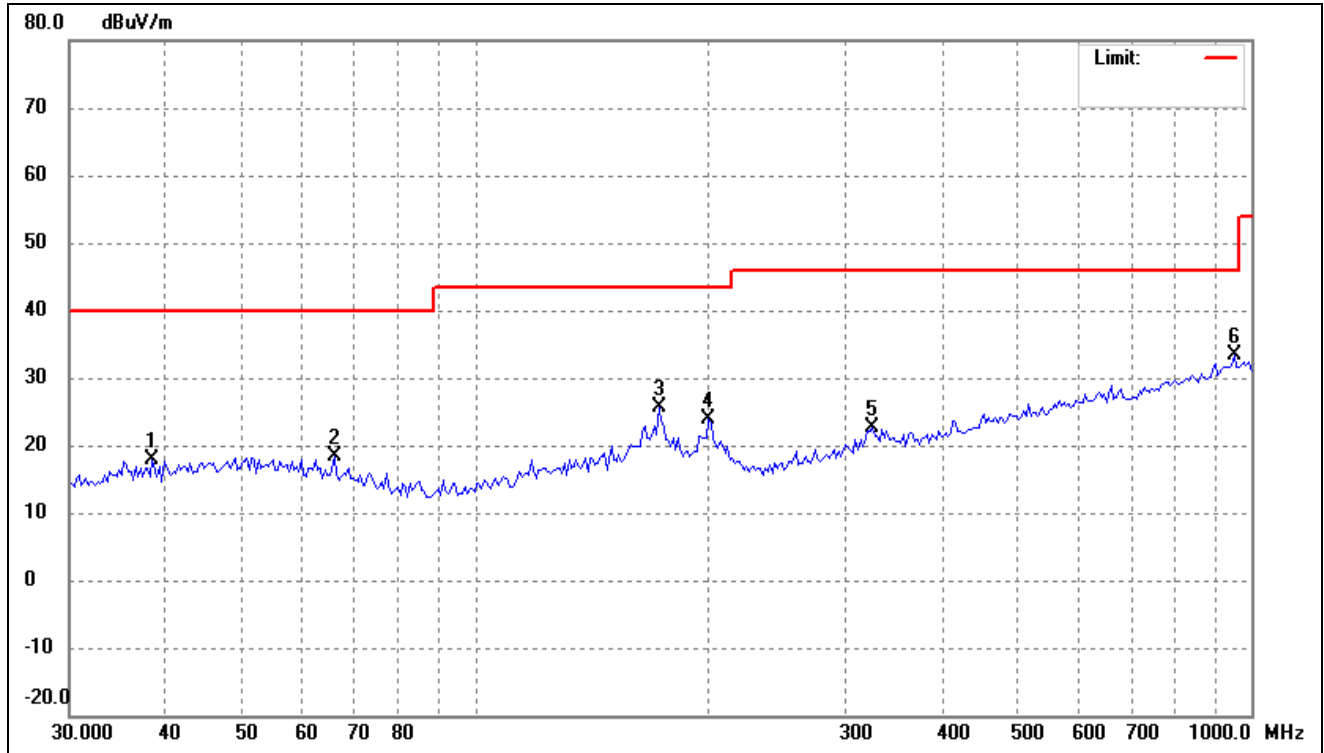
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	34.5269	28.13	-9.61	18.52	40.00	-21.48	-	-	peak
2	53.0056	29.18	-8.41	20.77	40.00	-19.23	-	-	peak
3	173.8147	40.35	-9.42	30.93	43.50	-12.57	-	-	peak
4	198.6423	46.18	-11.91	34.27	43.50	-9.23	-	-	peak
5	484.9068	30.04	-4.11	25.93	46.00	-20.07	-	-	peak
6	925.6131	31.03	1.74	32.77	46.00	-13.23	-	-	peak

802.11a			
Test Channel	5180MHz(Worst case)	Polarity:	Vertical



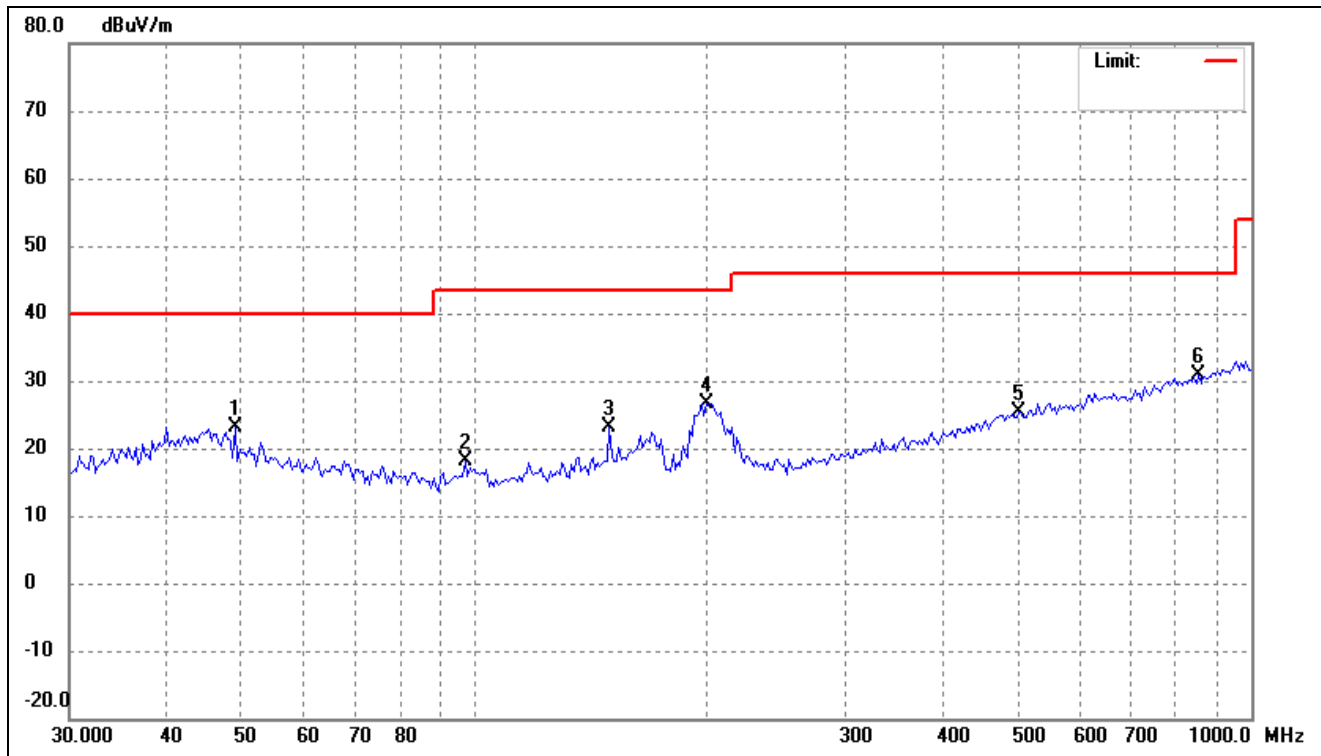
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	45.4131	35.41	-8.43	26.98	40.00	-13.02	-	-	peak
2	103.3353	32.08	-12.19	19.89	43.50	-23.61	-	-	peak
3	170.1888	34.50	-8.91	25.59	43.50	-17.91	-	-	peak
4	197.2514	44.00	-11.83	32.17	43.50	-11.33	-	-	peak
5	516.5651	29.79	-3.65	26.14	46.00	-19.86	-	-	peak
6	938.7139	31.53	2.01	33.54	46.00	-12.46	-	-	peak

802.11n-HT20			
Test Channel	5180MHz(worst case)	Polarity:	Horizontal



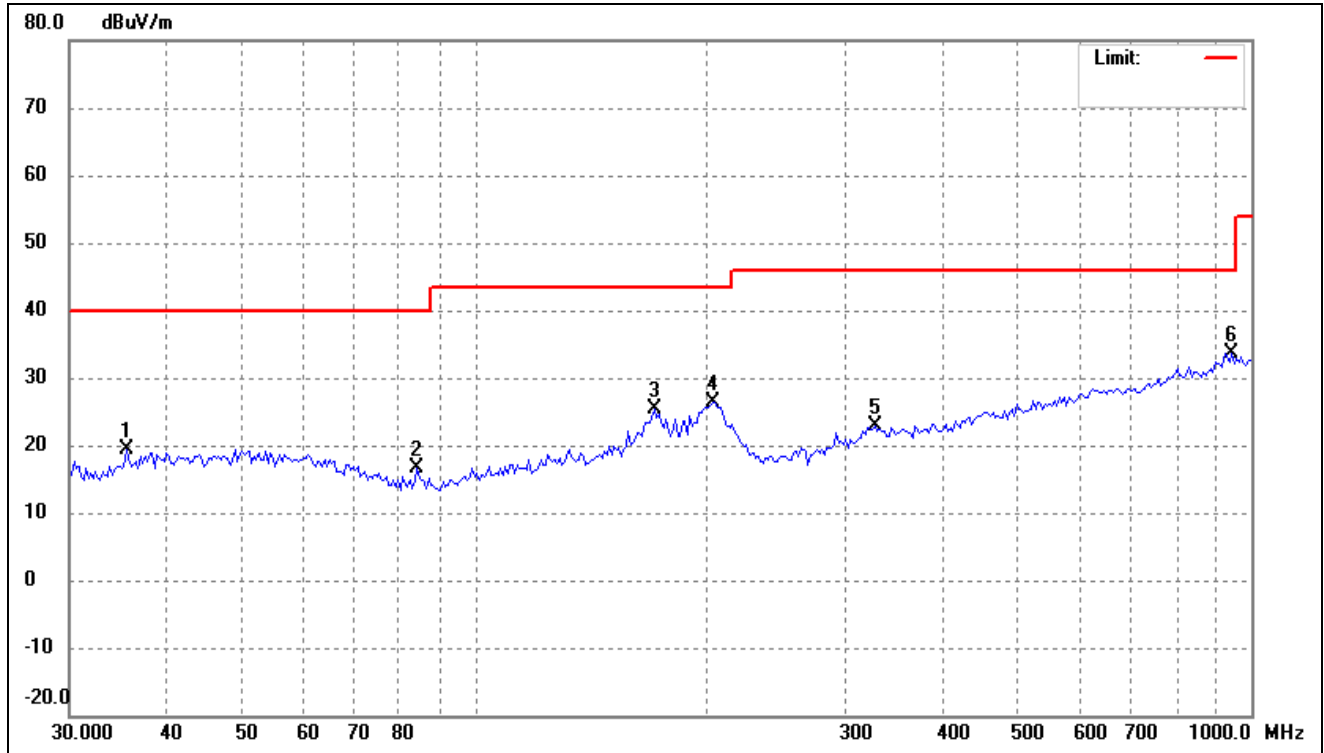
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	38.3651	26.74	-8.83	17.91	40.00	-22.09	-	-	peak
2	65.9067	28.39	-10.02	18.37	40.00	-21.63	-	-	peak
3	172.5976	34.79	-9.25	25.54	43.50	-17.96	-	-	peak
4	200.0432	35.81	-11.98	23.83	43.50	-19.67	-	-	peak
5	324.8645	30.06	-7.55	22.51	46.00	-23.49	-	-	peak
6	952.0001	31.04	2.25	33.29	46.00	-12.71	-	-	peak

802.11n-HT20			
Test Channel	5180MHz(worst case)	Polarity:	Vertical



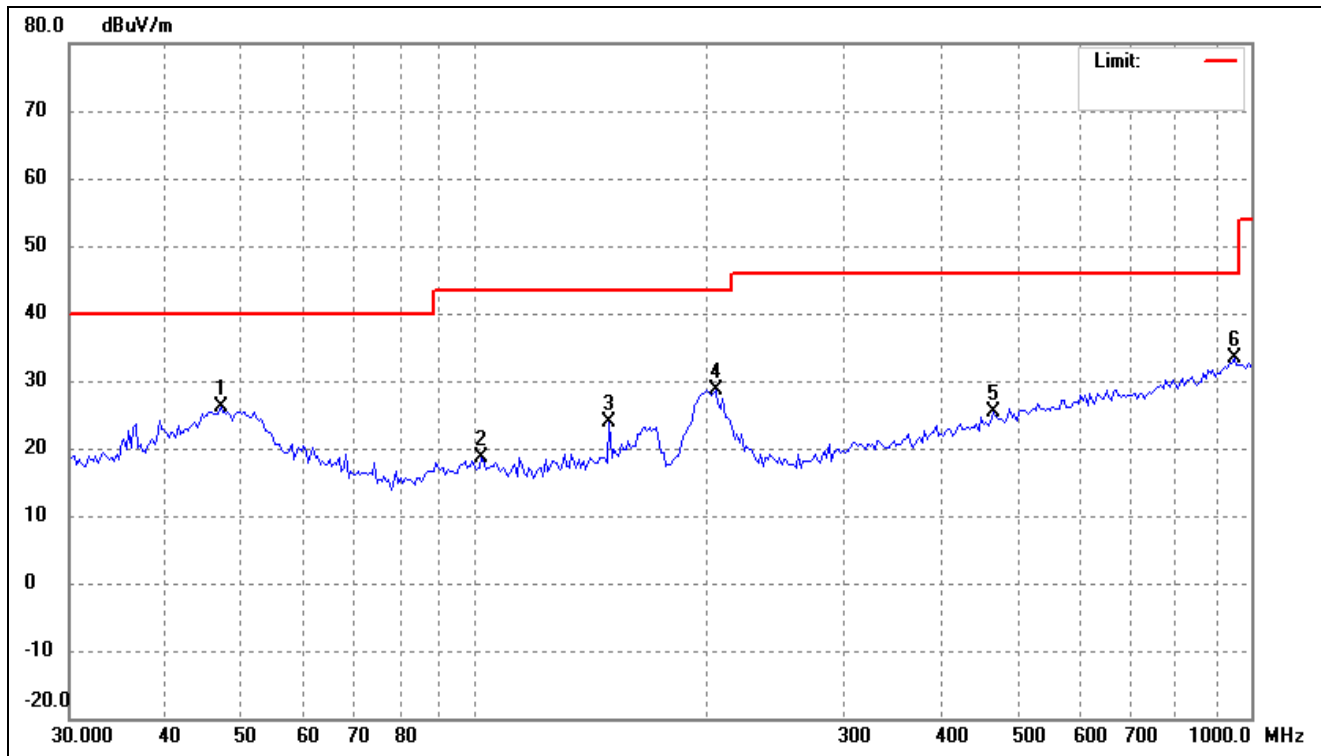
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	49.0627	31.31	-8.15	23.16	40.00	-16.84	-	-	peak
2	97.0023	30.79	-12.67	18.12	43.50	-25.38	-	-	peak
3	148.9175	31.77	-8.68	23.09	43.50	-20.41	-	-	peak
4	198.6424	38.51	-11.91	26.60	43.50	-16.90	-	-	peak
5	502.2473	29.22	-3.87	25.35	46.00	-20.65	-	-	peak
6	856.7597	29.99	0.80	30.79	46.00	-15.21	-	-	peak

802.11ac-HT20			
Test Channel	5180MHz(worst case)	Polarity:	Horizontal



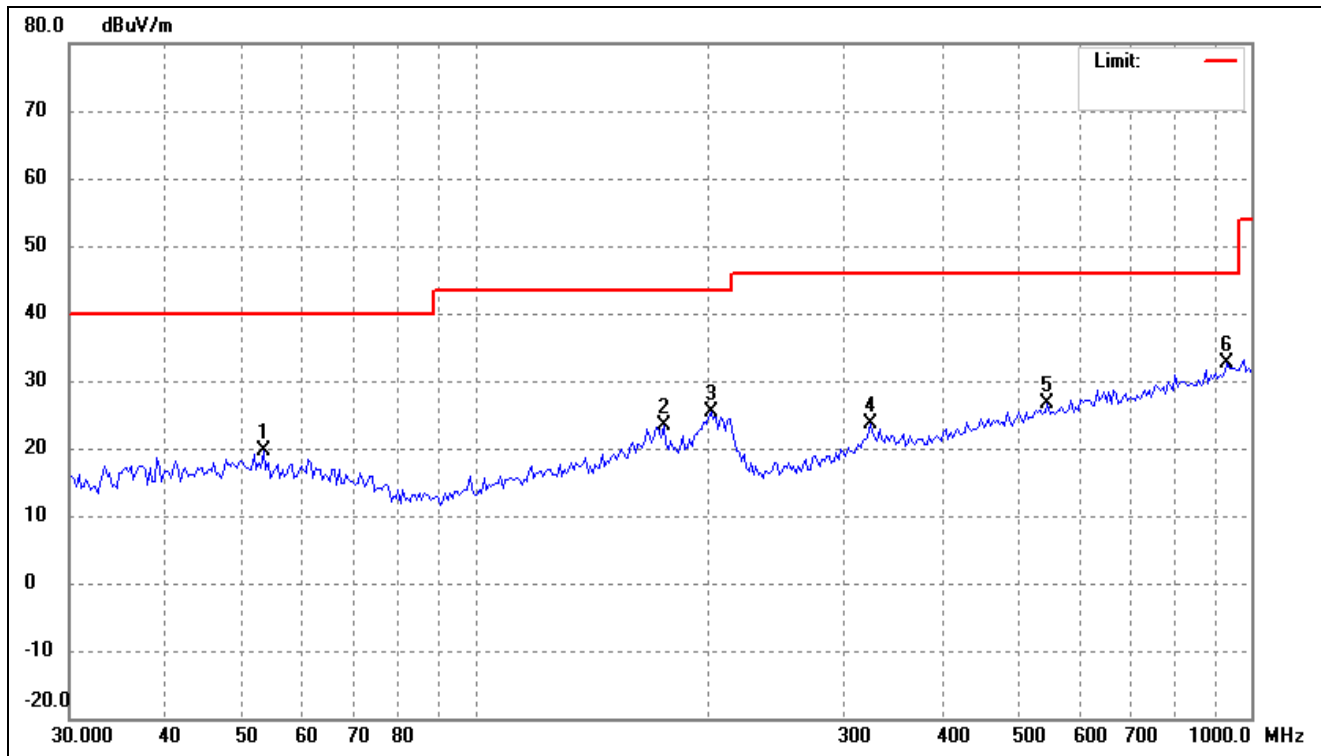
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.5112	28.72	-9.44	19.28	40.00	-20.72	-	-	peak
2	84.2839	29.60	-13.02	16.58	40.00	-23.42	-	-	peak
3	170.1888	34.29	-8.91	25.38	43.50	-18.12	-	-	peak
4	202.8745	38.31	-12.04	26.27	43.50	-17.23	-	-	peak
5	327.1554	30.39	-7.51	22.88	46.00	-23.12	-	-	peak
6	945.3336	31.55	2.15	33.70	46.00	-12.30	-	-	peak

802.11ac-HT20			
Test Channel	5180MHz(worst case)	Polarity:	Vertical



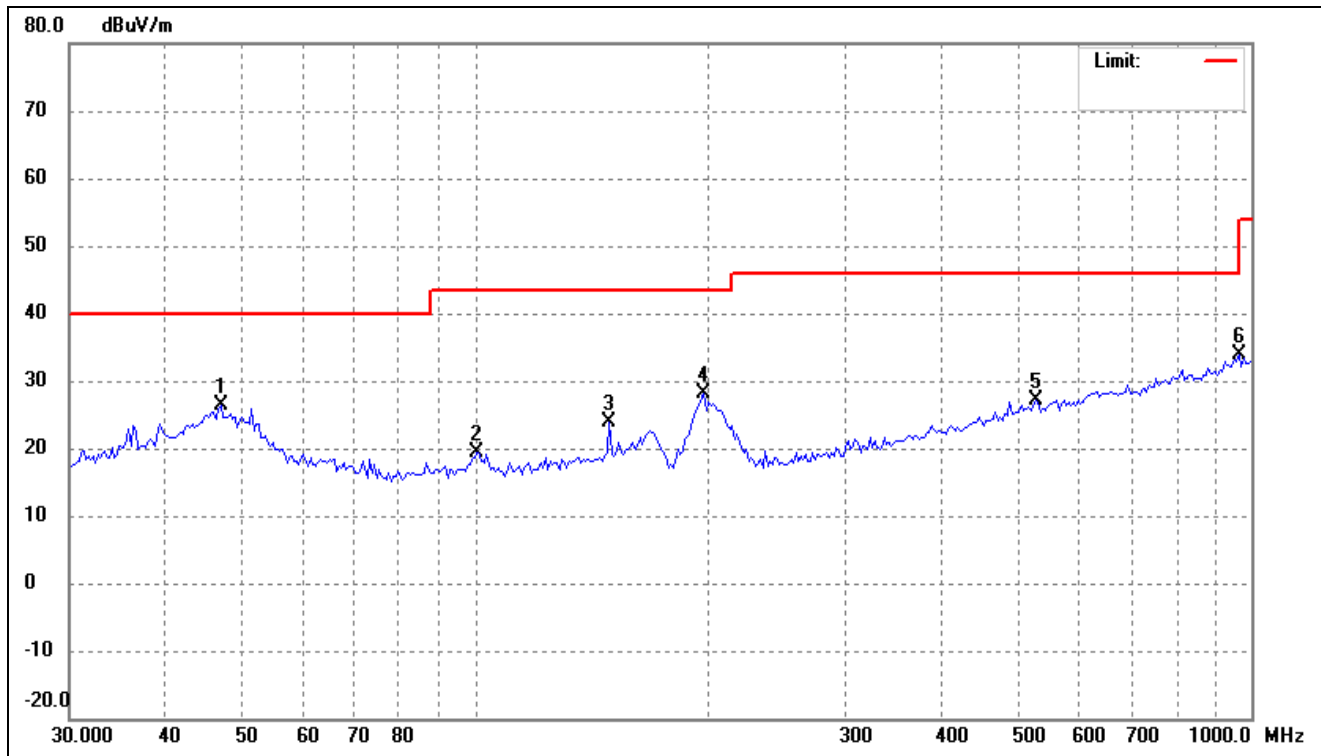
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	47.0371	34.46	-8.32	26.14	40.00	-13.86	-	-	peak
2	101.8932	30.84	-12.32	18.52	43.50	-24.98	-	-	peak
3	148.9175	32.59	-8.68	23.91	43.50	-19.59	-	-	peak
4	204.3052	40.68	-12.06	28.62	43.50	-14.88	-	-	peak
5	464.8867	29.66	-4.37	25.29	46.00	-20.71	-	-	peak
6	952.0001	31.13	2.25	33.38	46.00	-12.62	-	-	peak

802.11ax-HE20			
Test Channel	5180MHz(worst case)	Polarity:	Horizontal



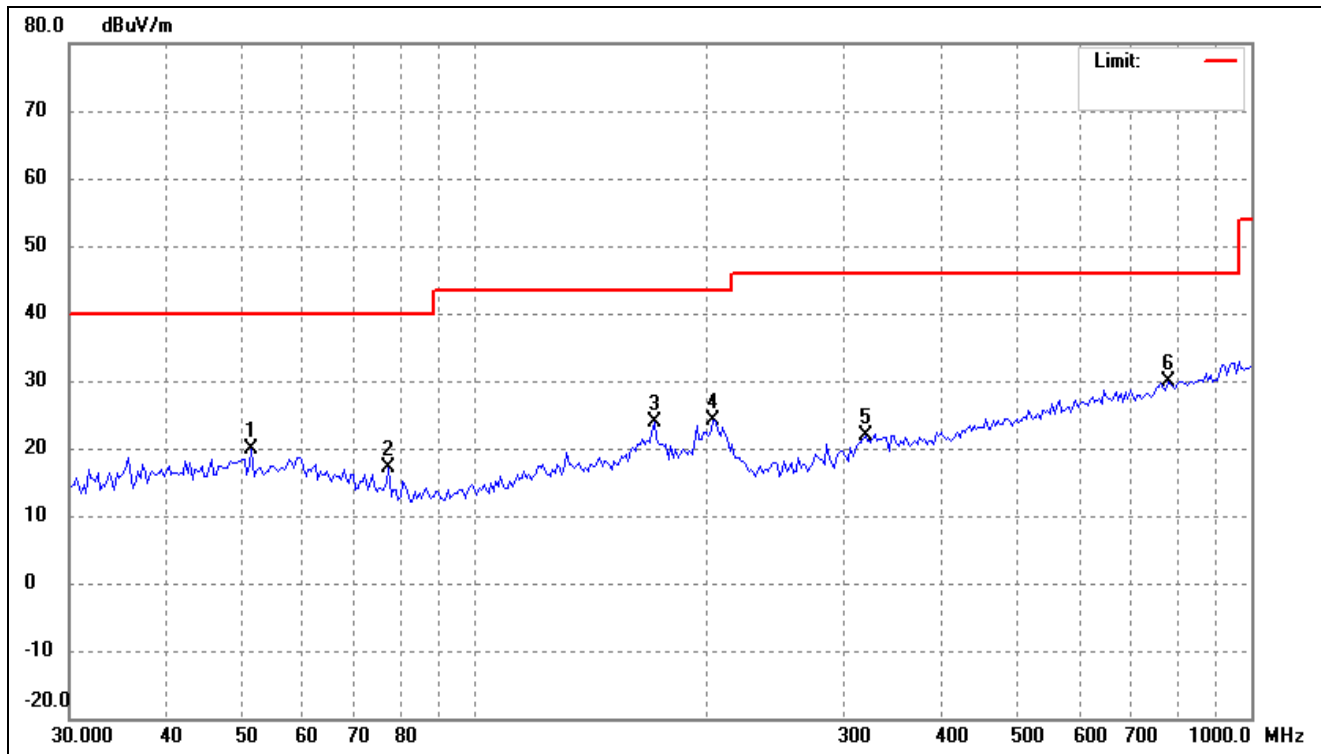
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	53.3794	27.99	-8.45	19.54	40.00	-20.46	-	-	peak
2	175.0404	33.08	-9.61	23.47	43.50	-20.03	-	-	peak
3	201.4539	37.39	-12.01	25.38	43.50	-18.12	-	-	peak
4	322.5896	31.18	-7.62	23.56	46.00	-22.44	-	-	peak
5	546.4368	29.59	-2.94	26.65	46.00	-19.35	-	-	peak
6	932.1405	30.80	1.87	32.67	46.00	-13.33	-	-	peak

802.11ax-HE20			
Test Channel	5180MHz(worst case)	Polarity:	Vertical



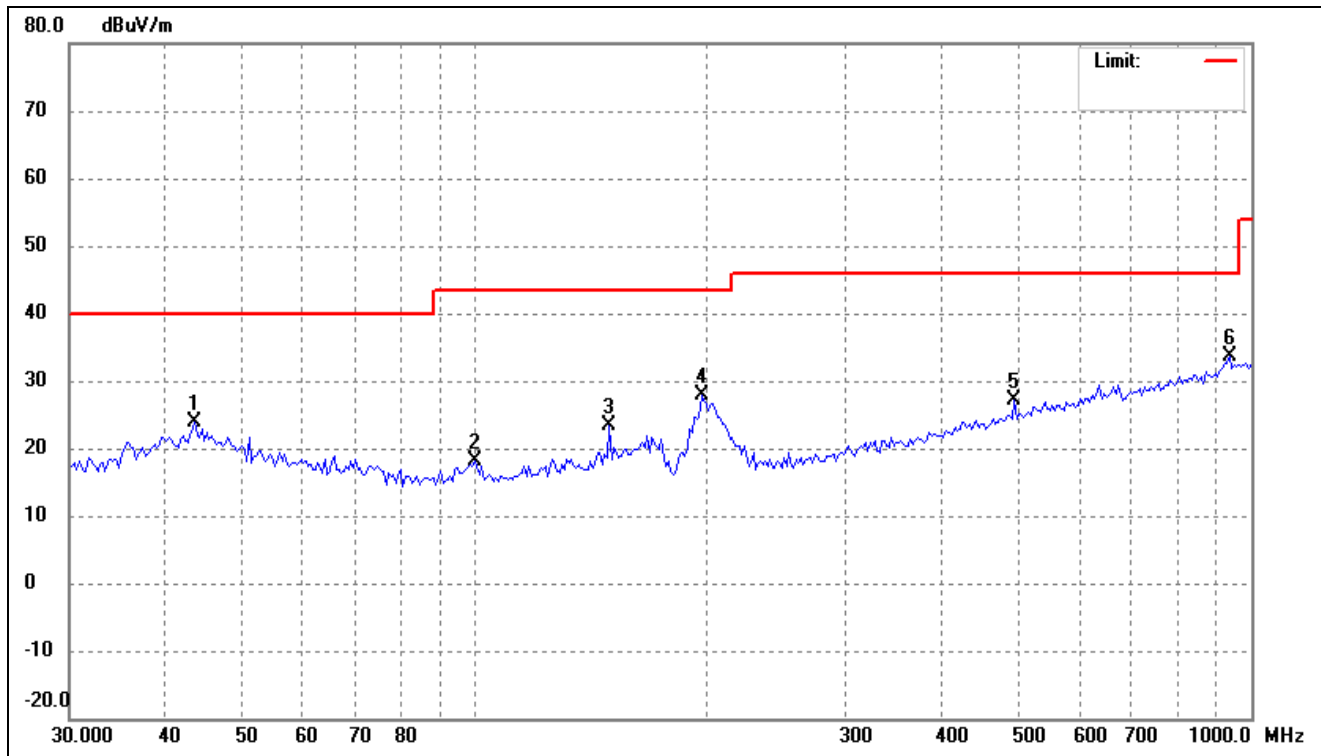
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	47.0371	34.77	-8.32	26.45	40.00	-13.55	-	-	peak
2	100.4712	31.77	-12.45	19.32	43.50	-24.18	-	-	peak
3	148.9175	32.60	-8.68	23.92	43.50	-19.58	-	-	peak
4	197.2514	39.99	-11.83	28.16	43.50	-15.34	-	-	peak
5	527.5707	30.54	-3.45	27.09	46.00	-18.91	-	-	peak
6	965.4742	31.57	2.27	33.84	54.00	-20.16	-	-	peak

802.11n-HT40			
Test Channel	5190MHz(worst case)	Polarity:	Horizontal



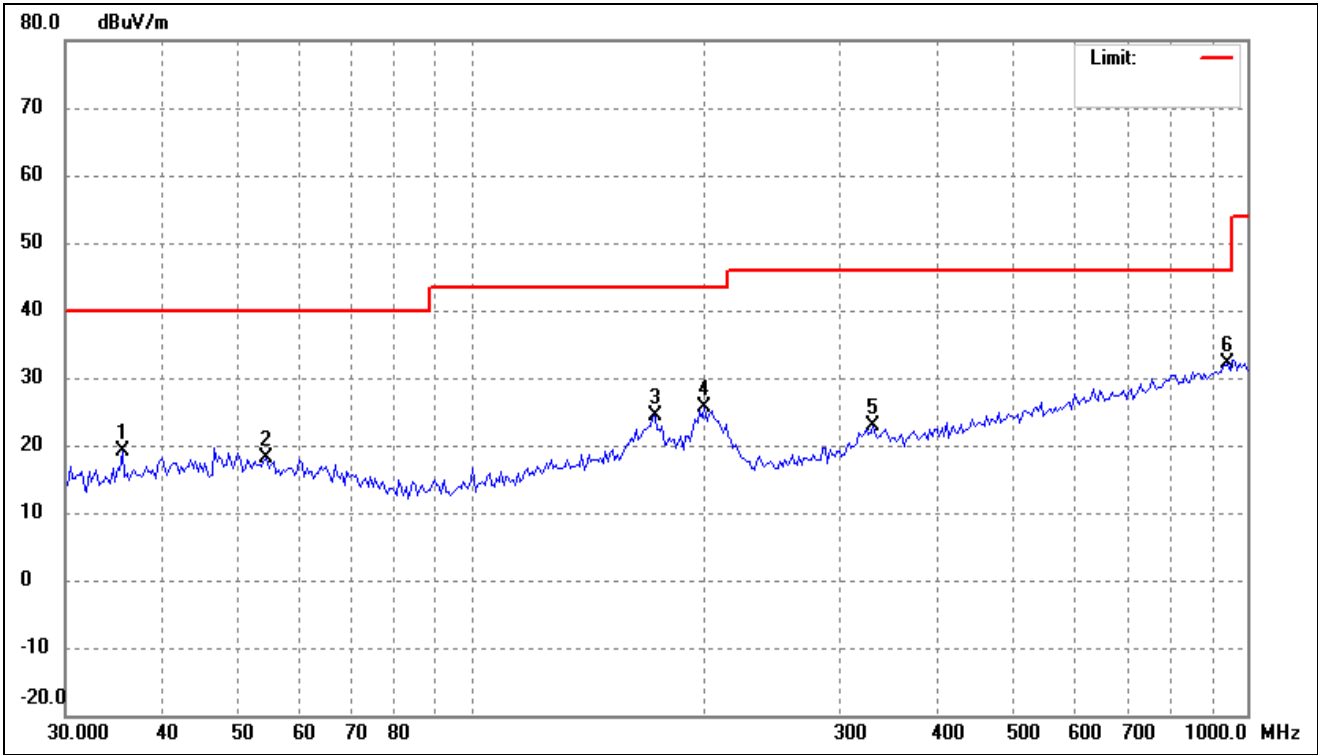
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	51.5365	28.21	-8.24	19.97	40.00	-20.03	-	-	peak
2	77.4680	29.42	-12.41	17.01	40.00	-22.99	-	-	peak
3	170.1888	32.74	-8.91	23.83	43.50	-19.67	-	-	peak
4	202.8745	36.13	-12.04	24.09	43.50	-19.41	-	-	peak
5	318.0875	29.52	-7.75	21.77	46.00	-24.23	-	-	peak
6	781.9606	29.67	0.13	29.80	46.00	-16.20	-	-	peak

802.11n-HT40			
Test Channel	5190MHz(worst case)	Polarity:	Vertical



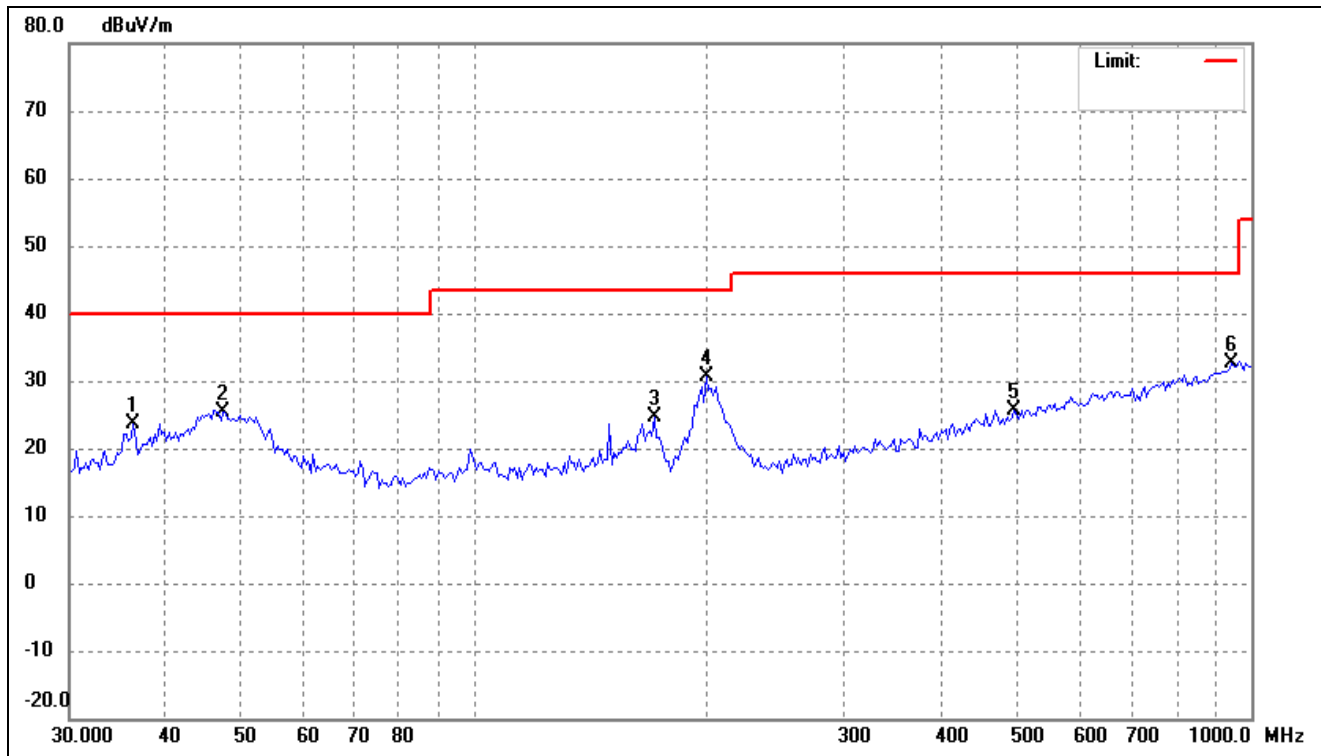
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	43.5381	32.42	-8.47	23.95	40.00	-16.05	-	-	peak
2	99.7676	30.71	-12.51	18.20	43.50	-25.30	-	-	peak
3	148.9175	32.18	-8.68	23.50	43.50	-20.00	-	-	peak
4	195.8701	39.52	-11.75	27.77	43.50	-15.73	-	-	peak
5	495.2379	31.02	-3.97	27.05	46.00	-18.95	-	-	peak
6	938.7139	31.64	2.01	33.65	46.00	-12.35	-	-	peak

802.11ac-HT40			
Test Channel	5190MHz(worst case)	Polarity:	Horizontal



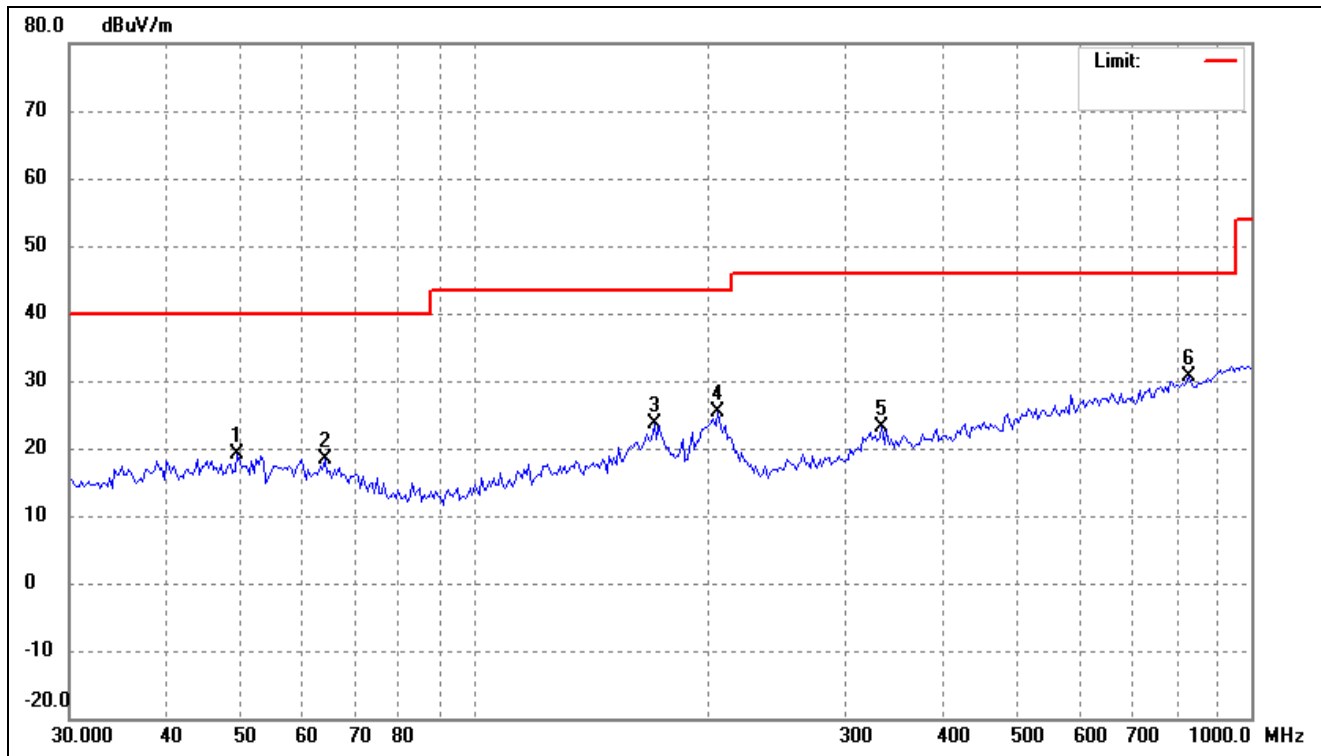
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.5112	28.57	-9.44	19.13	40.00	-20.87	-	-	peak
2	54.5167	26.72	-8.57	18.15	40.00	-21.85	-	-	peak
3	172.5976	33.64	-9.25	24.39	43.50	-19.11	-	-	peak
4	200.0432	37.72	-11.98	25.74	43.50	-17.76	-	-	peak
5	329.4625	30.26	-7.47	22.79	46.00	-23.21	-	-	peak
6	945.3336	30.06	2.15	32.21	46.00	-13.79	-	-	peak

802.11ac-HT40			
Test Channel	5190MHz(worst case)	Polarity:	Vertical



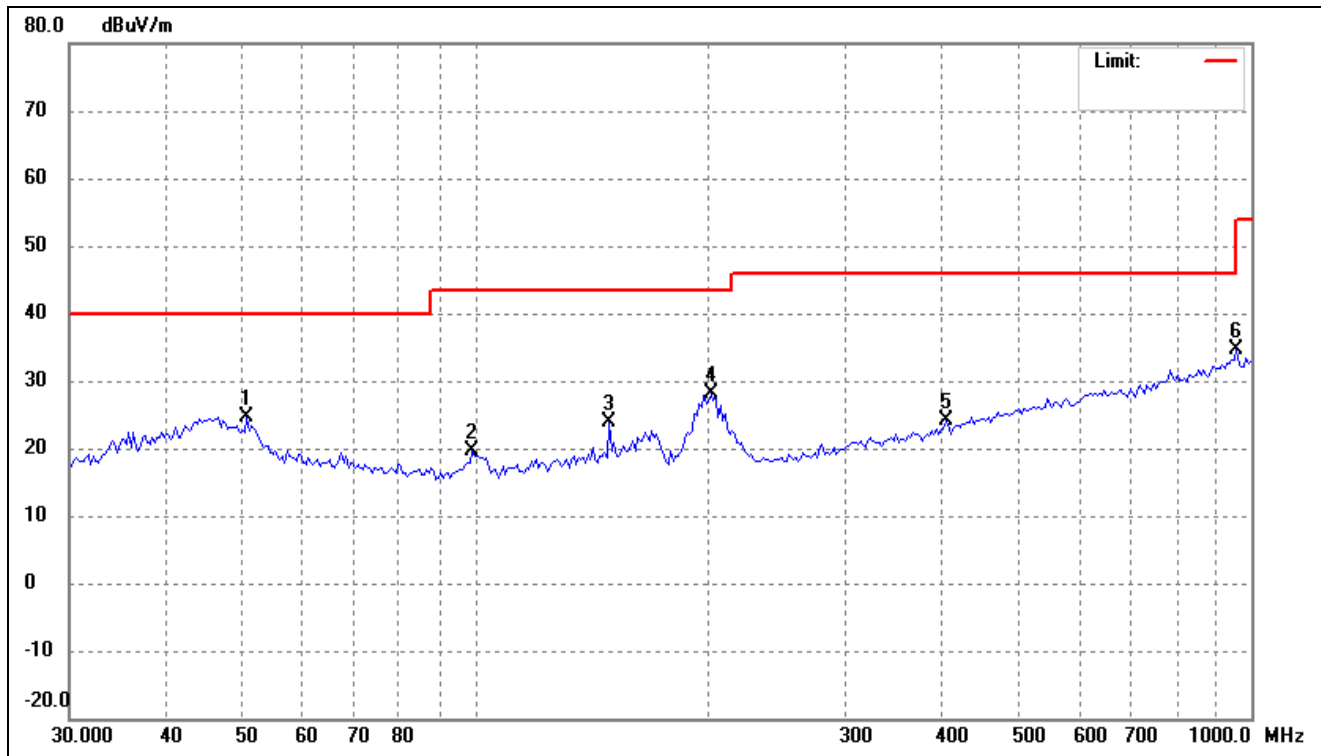
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	36.2678	33.03	-9.28	23.75	40.00	-16.25	-	-	peak
2	47.3688	33.68	-8.29	25.39	40.00	-14.61	-	-	peak
3	170.1888	33.46	-8.91	24.55	43.50	-18.95	-	-	peak
4	198.6424	42.55	-11.91	30.64	43.50	-12.86	-	-	peak
5	495.2379	29.60	-3.97	25.63	46.00	-20.37	-	-	peak
6	945.3336	30.37	2.15	32.52	46.00	-13.48	-	-	peak

802.11ax-HE40			
Test Channel	5190MHz(worst case)	Polarity:	Horizontal



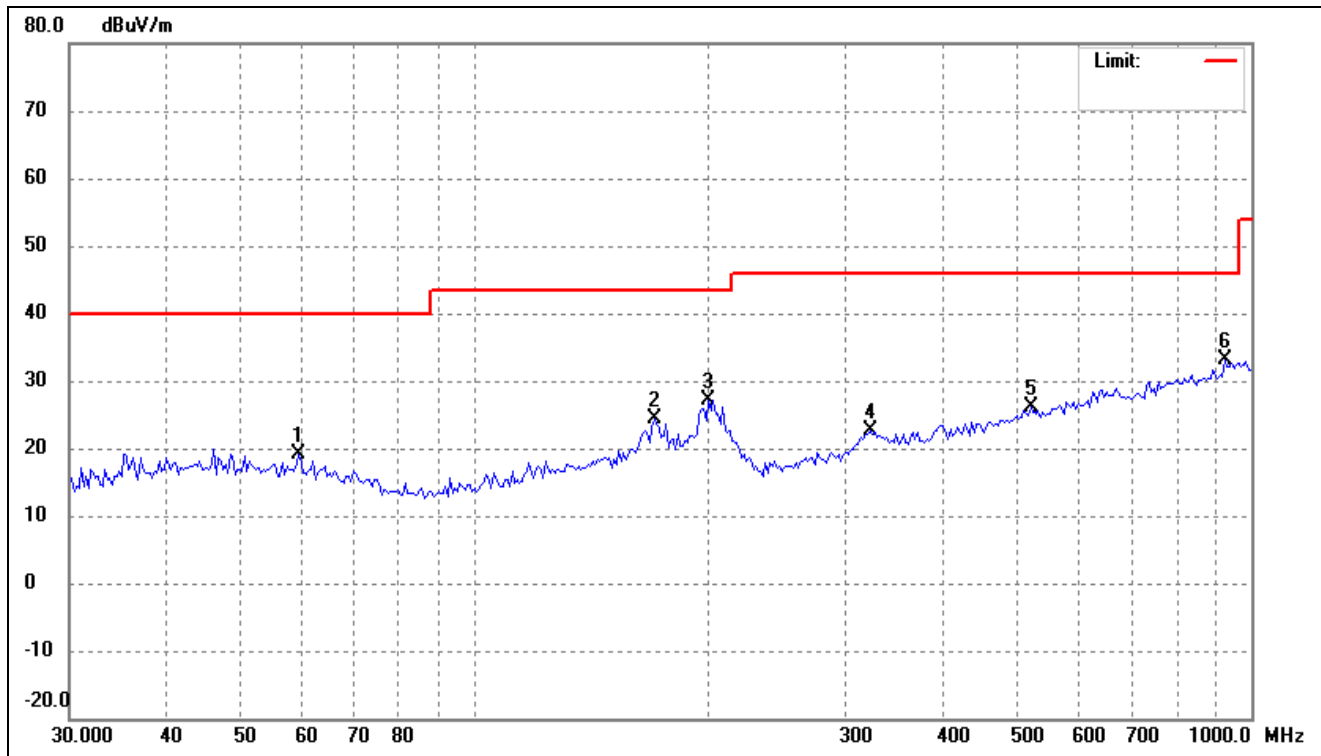
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	49.4087	27.30	-8.13	19.17	40.00	-20.83	-	-	peak
2	64.0800	28.01	-9.68	18.33	40.00	-21.67	-	-	peak
3	170.1888	32.62	-8.91	23.71	43.50	-19.79	-	-	peak
4	205.7459	37.50	-12.10	25.40	43.50	-18.10	-	-	peak
5	334.1255	30.47	-7.39	23.08	46.00	-22.92	-	-	peak
6	833.0127	29.94	0.59	30.53	46.00	-15.47	-	-	peak

802.11ax-HE40			
Test Channel	5190MHz(worst case)	Polarity:	Vertical



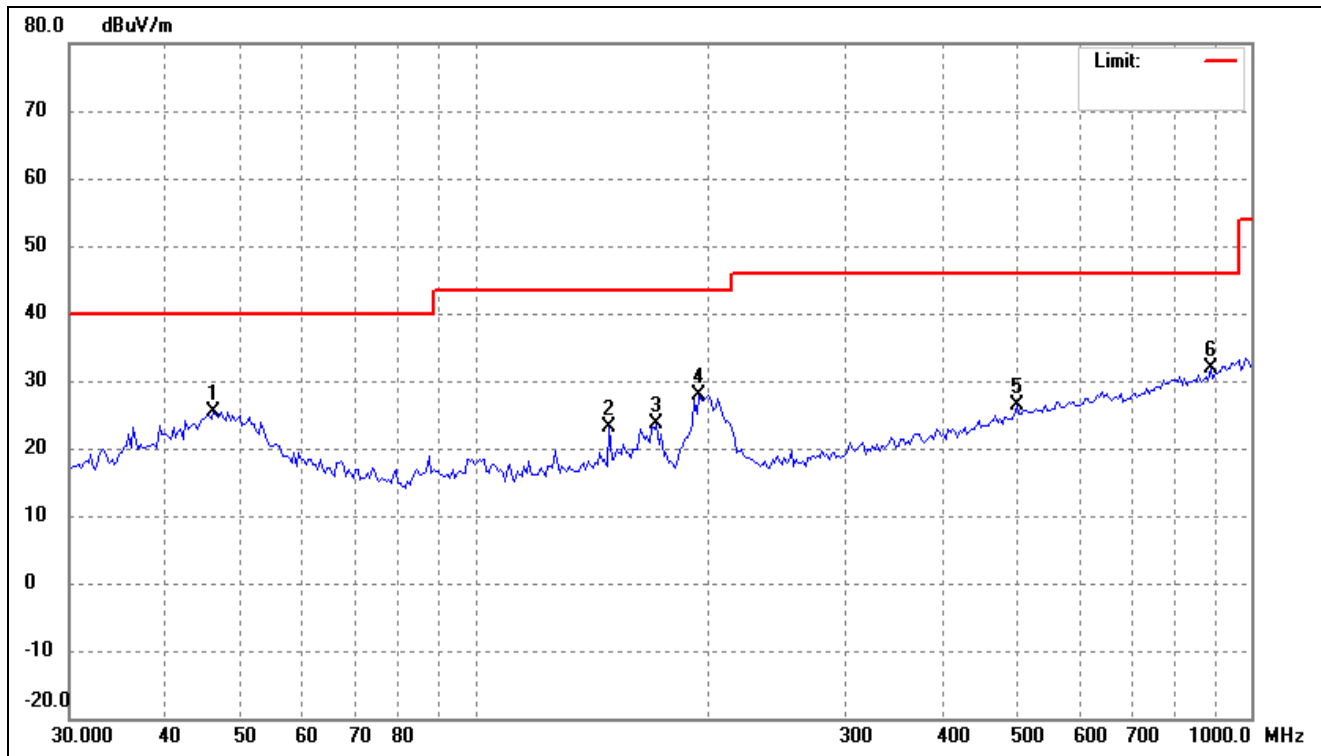
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	50.8172	32.71	-8.17	24.54	40.00	-15.46	-	-	peak
2	99.0690	32.09	-12.54	19.55	43.50	-23.95	-	-	peak
3	148.9175	32.67	-8.68	23.99	43.50	-19.51	-	-	peak
4	201.4539	40.25	-12.01	28.24	43.50	-15.26	-	-	peak
5	403.9335	29.90	-5.85	24.05	46.00	-21.95	-	-	peak
6	958.7135	32.42	2.26	34.68	46.00	-11.32	-	-	peak

802.11ac-HT80			
Test Channel	5210MHz(worst case)	Polarity:	Horizontal



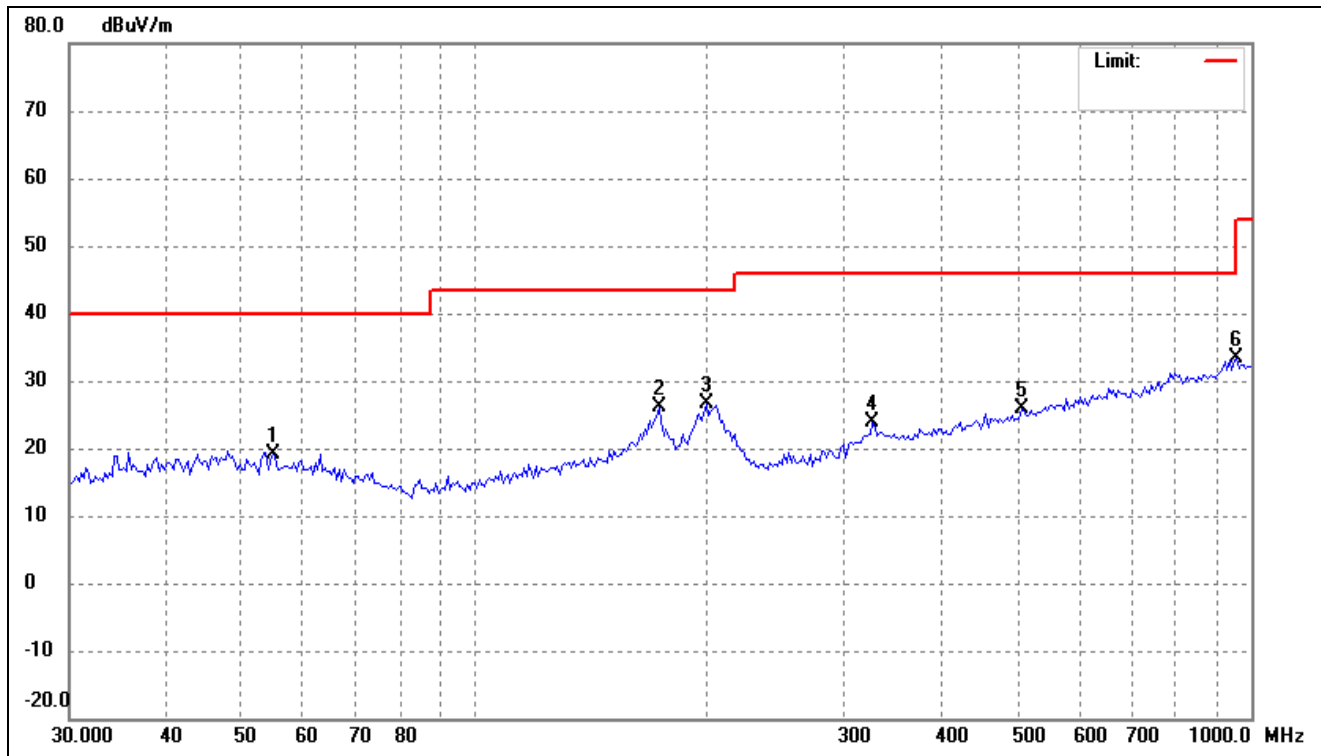
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	59.3133	27.95	-8.90	19.05	40.00	-20.95	-	-	peak
2	170.1888	33.34	-8.91	24.43	43.50	-19.07	-	-	peak
3	200.0432	39.15	-11.98	27.17	43.50	-16.33	-	-	peak
4	322.5896	30.21	-7.62	22.59	46.00	-23.41	-	-	peak
5	520.2079	29.73	-3.59	26.14	46.00	-19.86	-	-	peak
6	925.6132	31.44	1.74	33.18	46.00	-12.82	-	-	peak

802.11ac-HT80			
Test Channel	5210MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	46.0558	33.83	-8.38	25.45	40.00	-14.55	-	-	peak
2	148.9175	31.82	-8.68	23.14	43.50	-20.36	-	-	peak
3	171.3890	32.69	-9.08	23.61	43.50	-19.89	-	-	peak
4	194.4985	39.62	-11.67	27.95	43.50	-15.55	-	-	peak
5	498.7303	30.20	-3.92	26.28	46.00	-19.72	-	-	peak
6	887.3978	30.68	1.08	31.76	46.00	-14.24	-	-	peak

802.11ax-HE80			
Test Channel	5210MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	54.9011	27.63	-8.62	19.01	40.00	-20.99	-	-	peak
2	172.5976	35.45	-9.25	26.20	43.50	-17.30	-	-	peak
3	198.6424	38.64	-11.91	26.73	43.50	-16.77	-	-	peak
4	324.8645	31.54	-7.55	23.99	46.00	-22.01	-	-	peak
5	505.7891	29.63	-3.80	25.83	46.00	-20.17	-	-	peak
6	958.7135	31.19	2.26	33.45	46.00	-12.55	-	-	peak

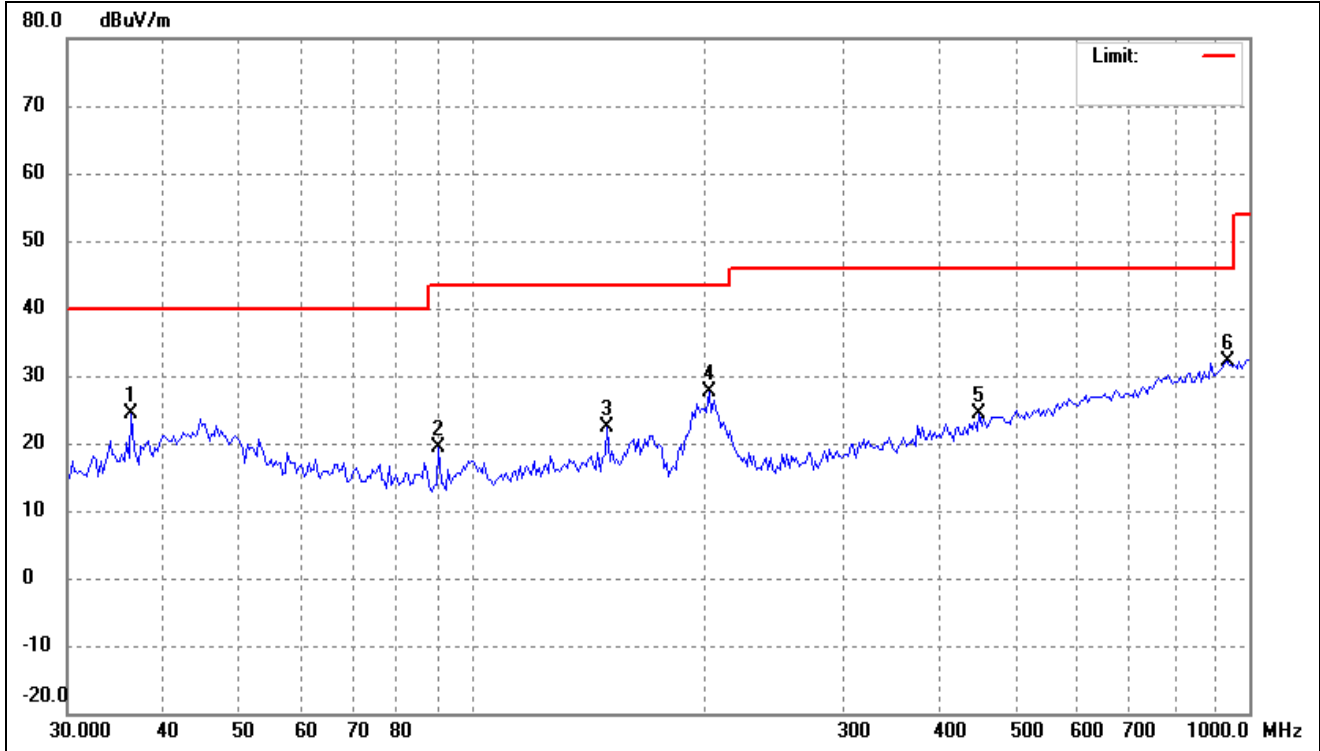
802.11ax-HE80

Test Channel

5210MHz(worst case)

Polarity:

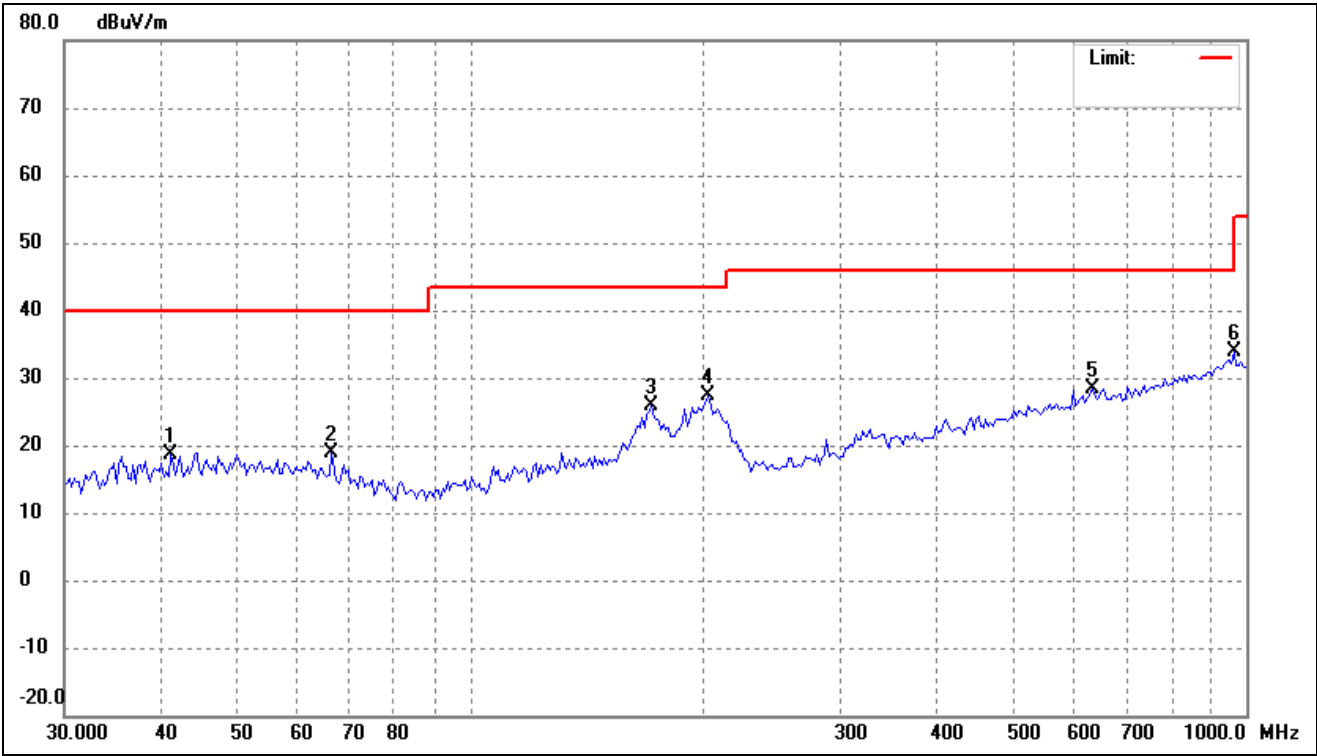
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	36.2678	33.75	-9.28	24.47	40.00	-15.53	-	-	peak
2	90.4198	32.54	-13.08	19.46	43.50	-24.04	-	-	peak
3	148.9175	31.14	-8.68	22.46	43.50	-21.04	-	-	peak
4	201.4539	39.63	-12.01	27.62	43.50	-15.88	-	-	peak
5	448.8361	29.04	-4.61	24.43	46.00	-21.57	-	-	peak
6	938.7139	30.00	2.01	32.01	46.00	-13.99	-	-	peak

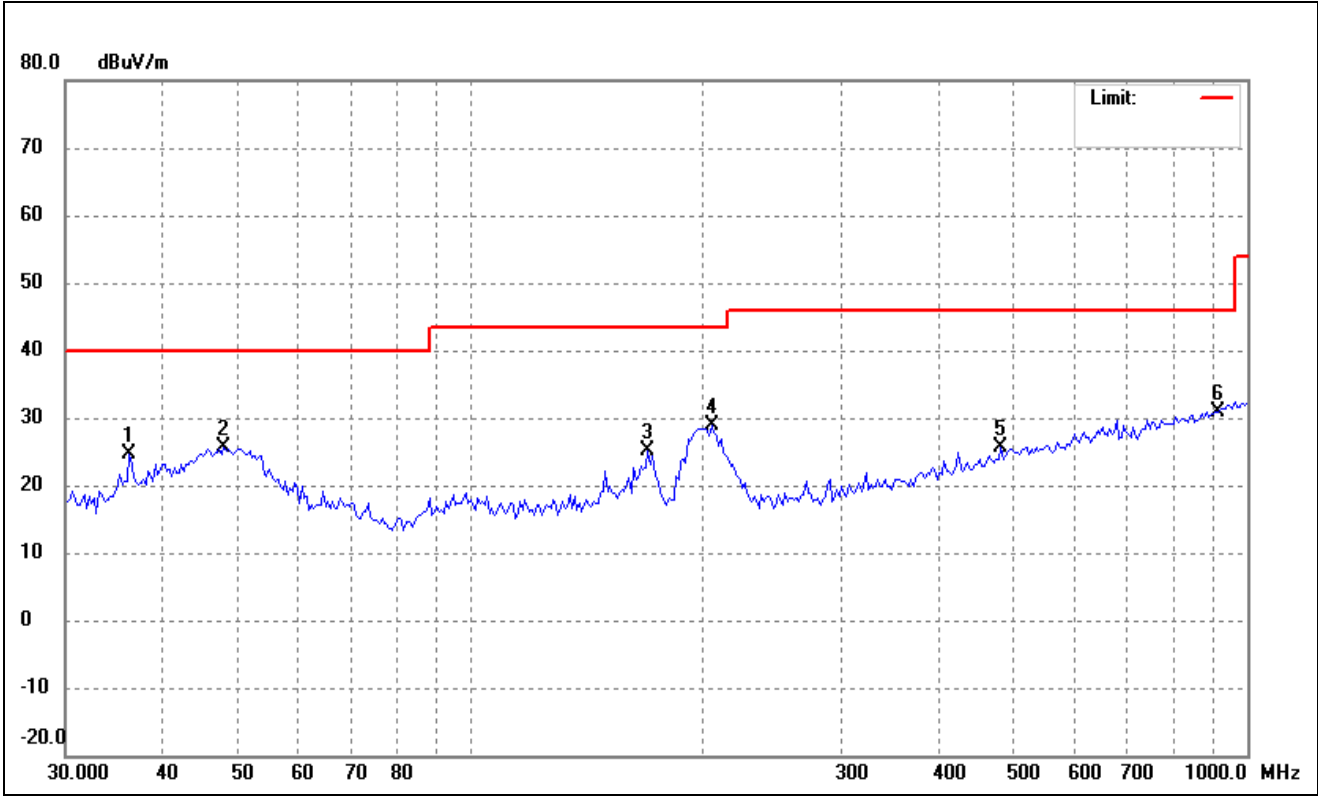
➤ 5250-5350MHz

802.11a			
Test Channel	5260MHz(Worst case)	Polarity:	Horizontal



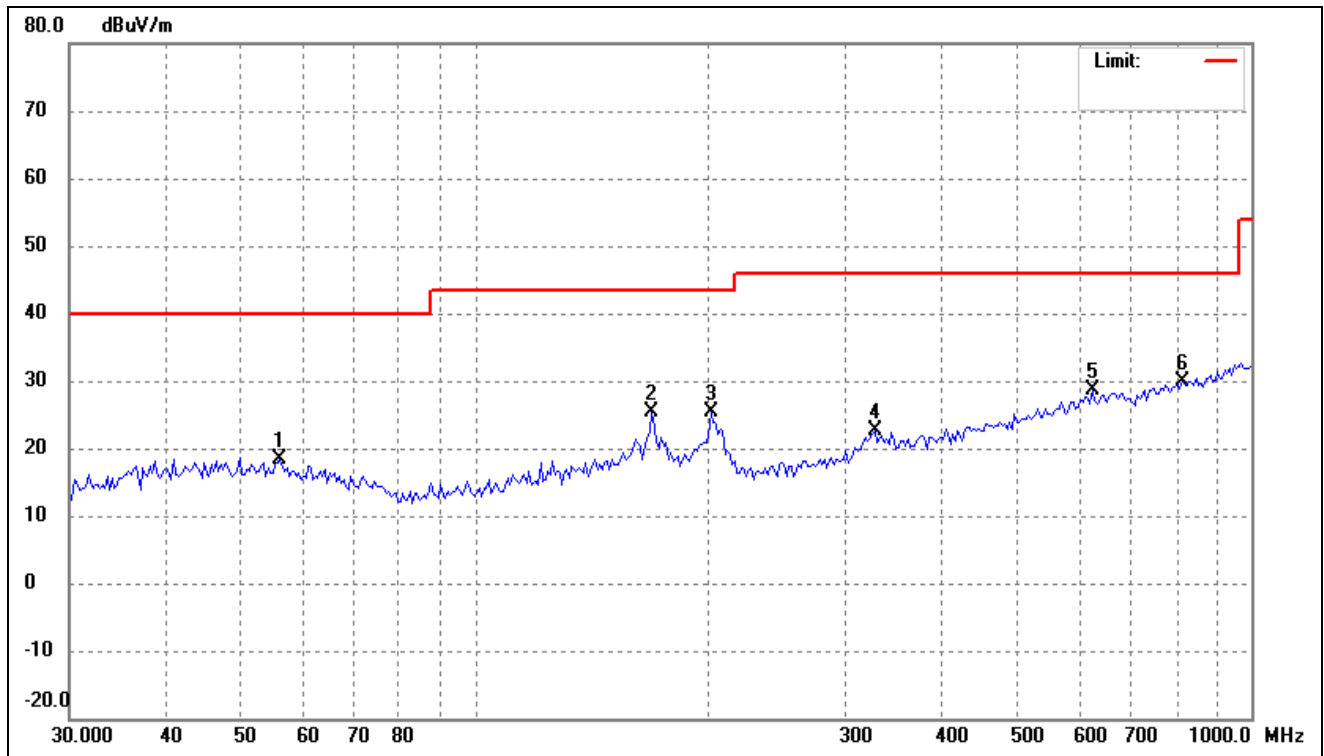
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	41.1580	27.02	-8.48	18.54	40.00	-21.46	-	-	peak
2	66.3714	28.96	-10.11	18.85	40.00	-21.15	-	-	peak
3	171.3889	35.01	-9.08	25.93	43.50	-17.57	-	-	peak
4	202.8745	39.49	-12.04	27.45	43.50	-16.05	-	-	peak
5	633.3284	29.68	-1.37	28.31	46.00	-17.69	-	-	peak
6	965.4742	31.57	2.27	33.84	54.00	-20.16	-	-	peak

802.11a			
Test Channel	5260MHz(Worst case)	Polarity:	Vertical



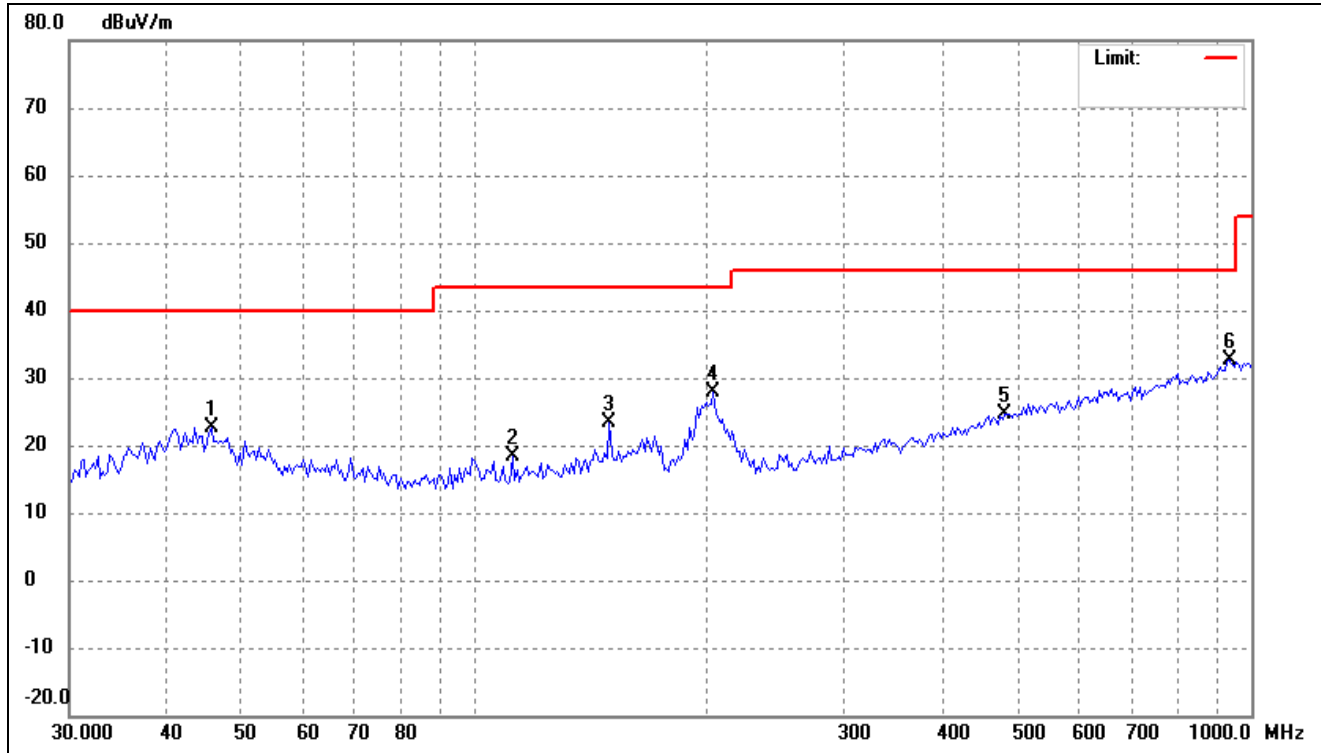
No.	Frequency	Reading	Corr.	Result	Limit	Margin	Deg.	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	45.4131	35.41	-8.43	26.98	40.00	-13.02	-	-	peak
2	103.3353	32.08	-12.19	19.89	43.50	-23.61	-	-	peak
3	170.1888	34.50	-8.91	25.59	43.50	-17.91	-	-	peak
4	197.2514	44.00	-11.83	32.17	43.50	-11.33	-	-	peak
5	516.5651	29.79	-3.65	26.14	46.00	-19.86	-	-	peak
6	938.7139	31.53	2.01	33.54	46.00	-12.46	-	-	peak

802.11n-HT20			
Test Channel	5260MHz(Worst case)	Polarity:	Horizontal



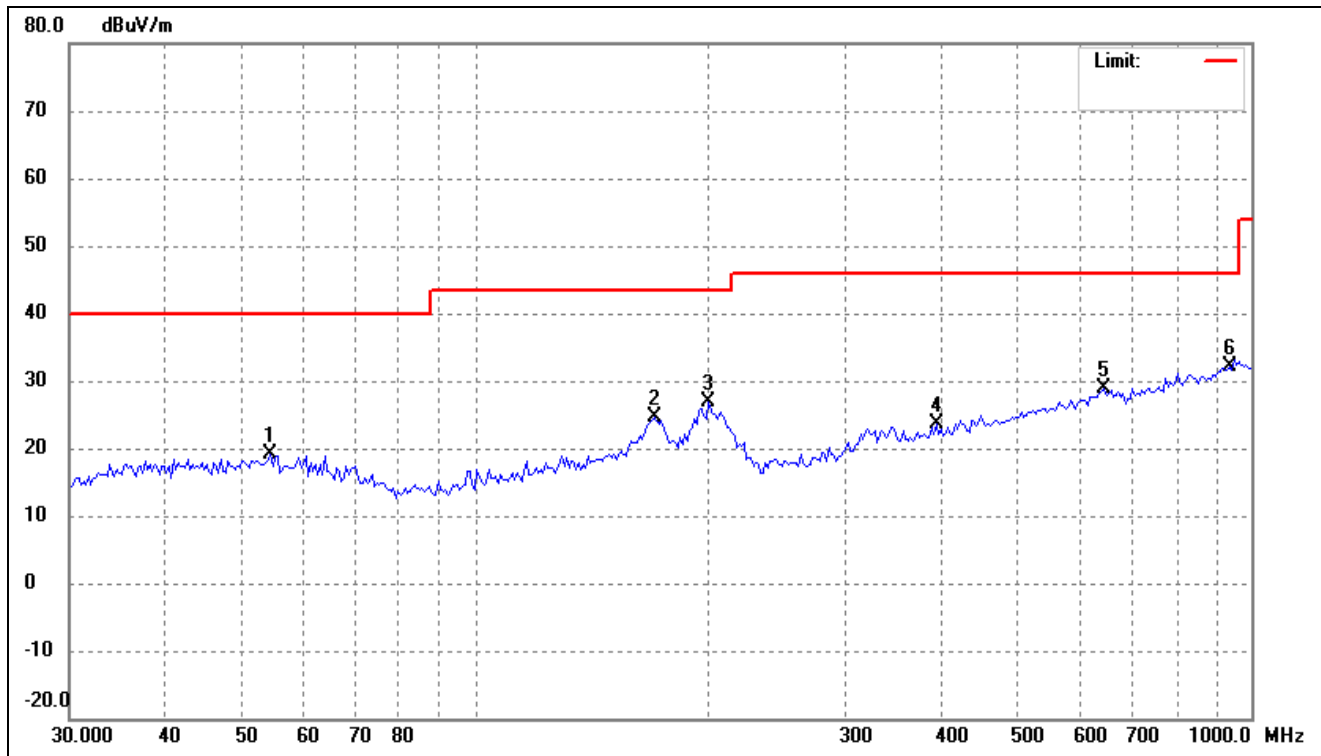
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	56.0708	27.16	-8.70	18.46	40.00	-21.54	-	-	peak
2	168.9970	34.11	-8.85	25.26	43.50	-18.24	-	-	peak
3	201.4539	37.27	-12.01	25.26	43.50	-18.24	-	-	peak
4	327.1554	30.17	-7.51	22.66	46.00	-23.34	-	-	peak
5	624.4897	30.01	-1.41	28.60	46.00	-17.40	-	-	peak
6	815.6353	29.53	0.44	29.97	46.00	-16.03	-	-	peak

802.11n-HT20			
Test Channel	5260MHz(Worst case)	Polarity:	Vertical



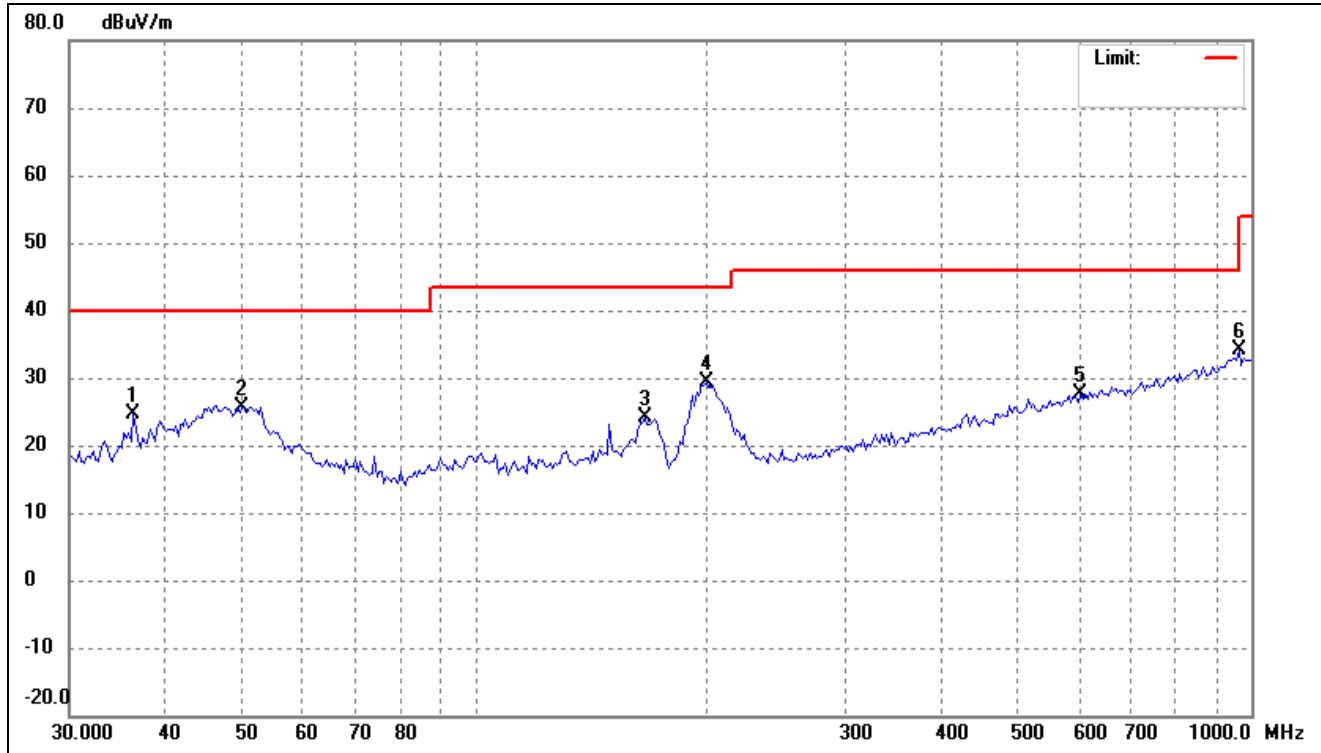
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	45.7333	30.97	-8.41	22.56	40.00	-17.44	-	-	peak
2	111.6399	29.72	-11.40	18.32	43.50	-25.18	-	-	peak
3	148.9175	32.03	-8.68	23.35	43.50	-20.15	-	-	peak
4	202.8745	39.84	-12.04	27.80	43.50	-15.70	-	-	peak
5	481.5112	28.83	-4.15	24.68	46.00	-21.32	-	-	peak
6	938.7139	30.70	2.01	32.71	46.00	-13.29	-	-	peak

802.11ac-HT20			
Test Channel	5260MHz(Worst case)	Polarity:	Horizontal



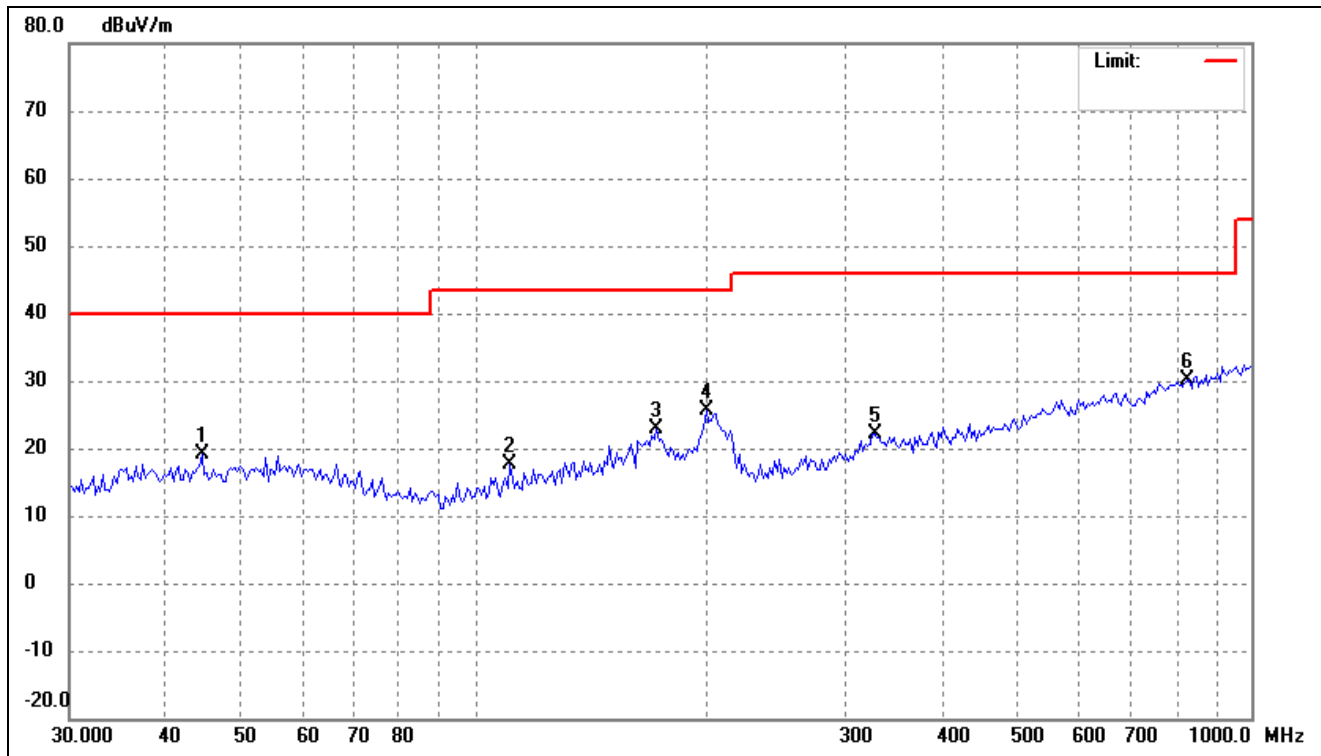
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	54.5167	27.69	-8.57	19.12	40.00	-20.88	-	-	peak
2	170.1888	33.59	-8.91	24.68	43.50	-18.82	-	-	peak
3	200.0432	38.79	-11.98	26.81	43.50	-16.69	-	-	peak
4	392.7376	29.64	-6.11	23.53	46.00	-22.47	-	-	peak
5	646.8217	30.16	-1.32	28.84	46.00	-17.16	-	-	peak
6	938.7139	30.15	2.01	32.16	46.00	-13.84	-	-	peak

802.11ac-HT20			
Test Channel	5260MHz(Worst case)	Polarity:	Vertical



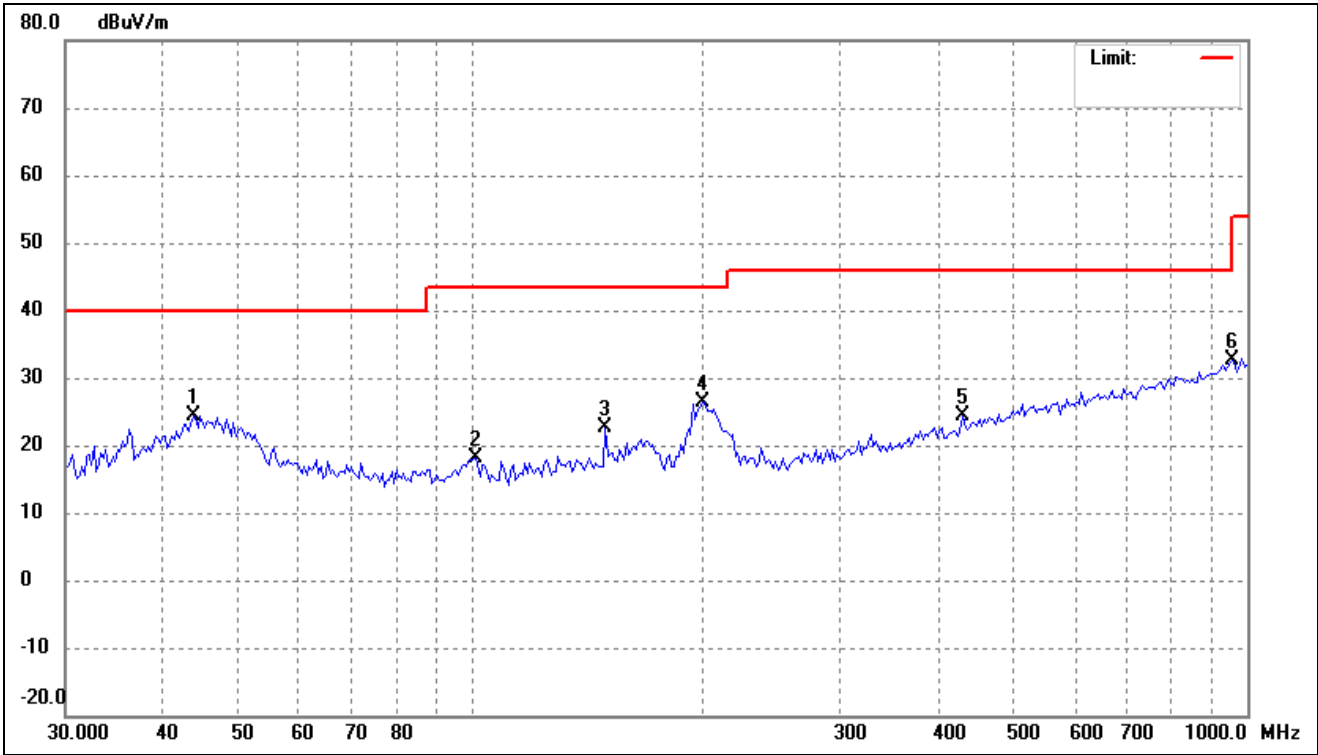
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	36.2678	33.88	-9.28	24.60	40.00	-15.40	-	-	peak
2	50.1080	33.79	-8.09	25.70	40.00	-14.30	-	-	peak
3	165.4716	32.80	-8.76	24.04	43.50	-19.46	-	-	peak
4	198.6424	41.25	-11.91	29.34	43.50	-14.16	-	-	peak
5	602.9287	29.30	-1.71	27.59	46.00	-18.41	-	-	peak
6	965.4742	31.81	2.27	34.08	54.00	-19.92	-	-	peak

802.11ax-HE20			
Test Channel	5260MHz(Worst case)	Polarity:	Horizontal



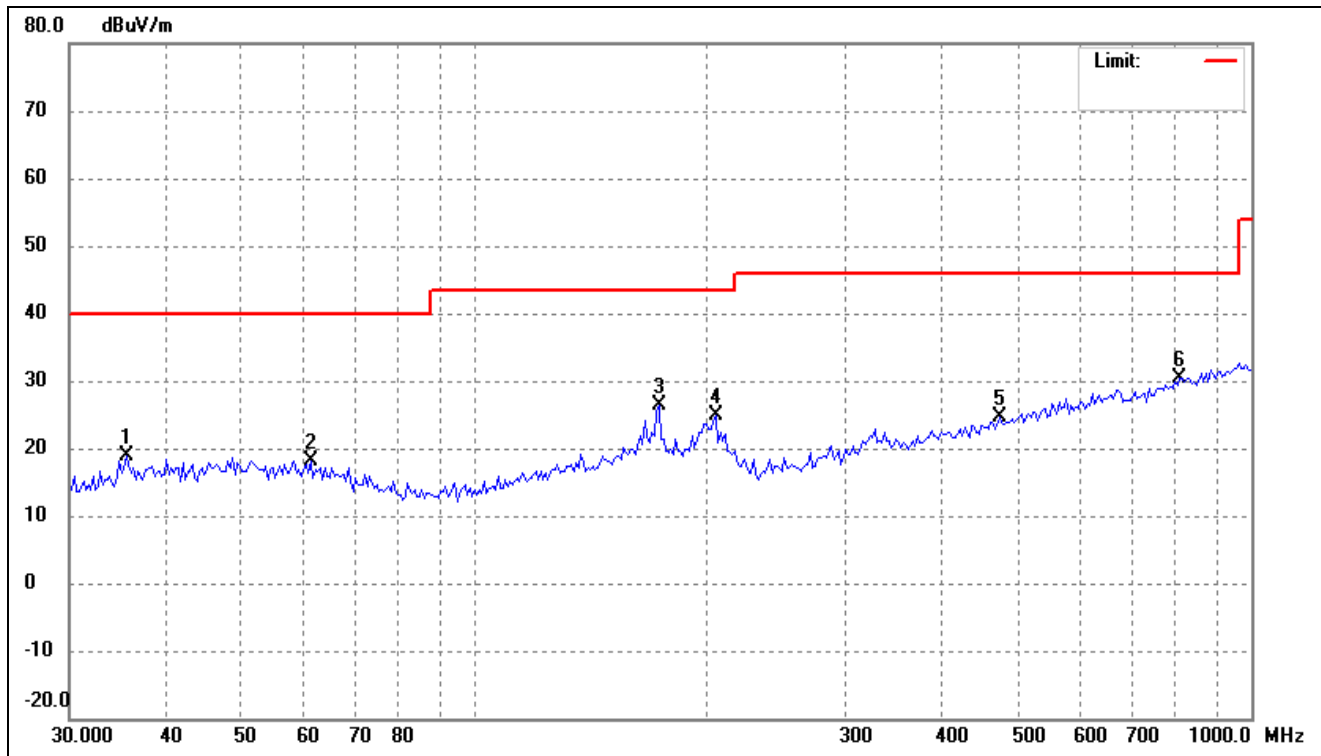
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	44.4657	27.51	-8.47	19.04	40.00	-20.96	-	-	peak
2	110.8581	29.04	-11.49	17.55	43.50	-25.95	-	-	peak
3	171.3890	31.86	-9.08	22.78	43.50	-20.72	-	-	peak
4	198.6424	37.49	-11.91	25.58	43.50	-17.92	-	-	peak
5	327.1554	29.60	-7.51	22.09	46.00	-23.91	-	-	peak
6	827.1795	29.68	0.54	30.22	46.00	-15.78	-	-	peak

802.11ax-HE20			
Test Channel	5260MHz(Worst case)	Polarity:	Vertical



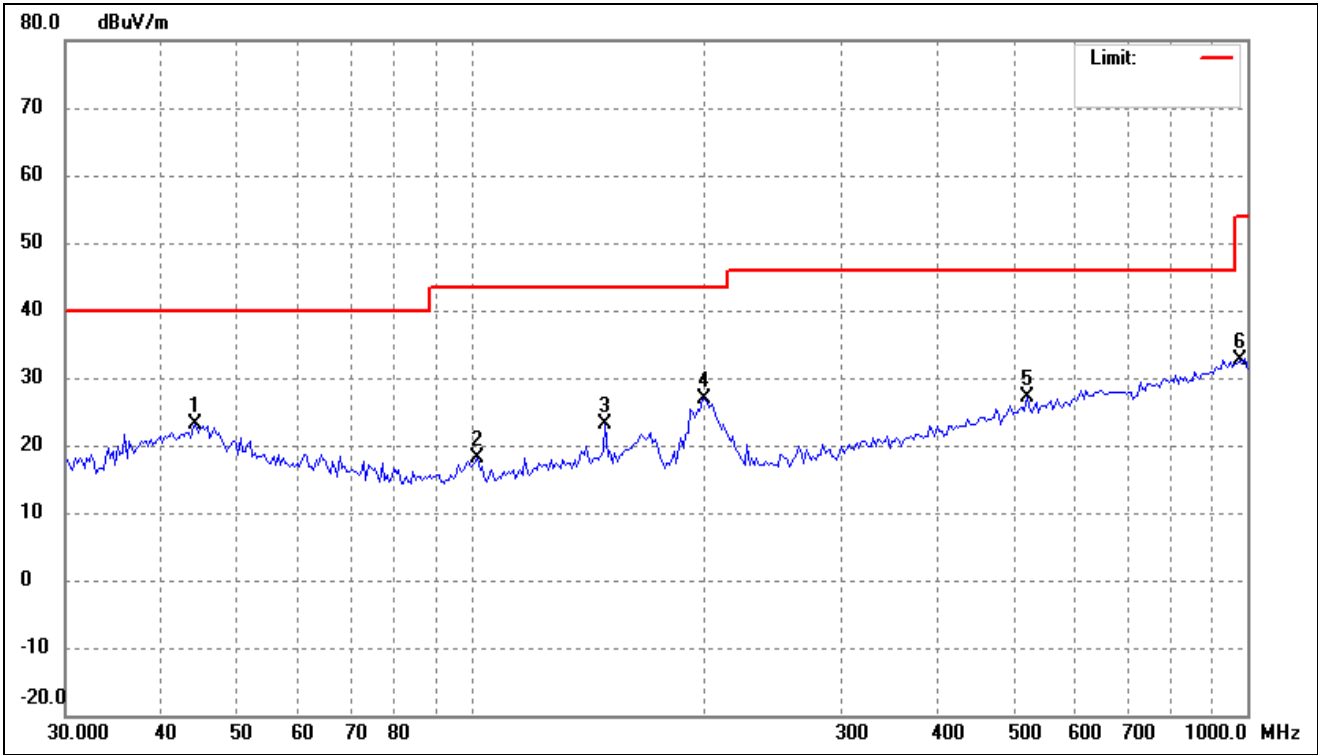
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	43.8452	32.89	-8.48	24.41	40.00	-15.59	-	-	peak
2	101.1797	30.60	-12.39	18.21	43.50	-25.29	-	-	peak
3	148.9175	31.40	-8.68	22.72	43.50	-20.78	-	-	peak
4	198.6424	38.41	-11.91	26.50	43.50	-17.00	-	-	peak
5	430.3053	29.53	-5.14	24.39	46.00	-21.61	-	-	peak
6	958.7135	30.46	2.26	32.72	46.00	-13.28	-	-	peak

802.11n-HT40			
Test Channel	5270MHz(worst case)	Polarity:	Horizontal



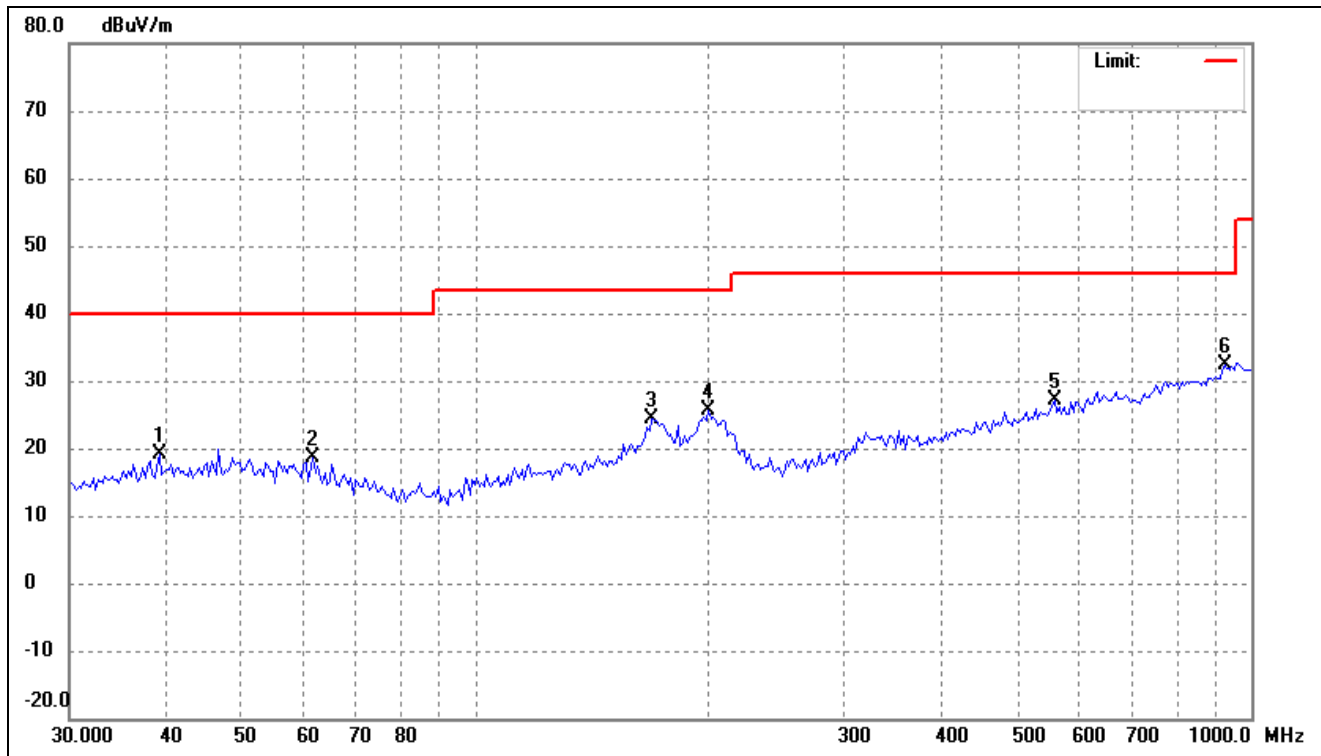
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.5112	28.23	-9.44	18.79	40.00	-21.21	-	-	peak
2	61.4343	27.39	-9.20	18.19	40.00	-21.81	-	-	peak
3	172.5976	35.68	-9.25	26.43	43.50	-17.07	-	-	peak
4	204.3052	36.89	-12.06	24.83	43.50	-18.67	-	-	peak
5	474.7913	28.90	-4.24	24.66	46.00	-21.34	-	-	peak
6	809.9238	30.03	0.39	30.42	46.00	-15.58	-	-	peak

802.11n-HT40			
Test Channel	5270MHz(worst case)	Polarity:	Vertical



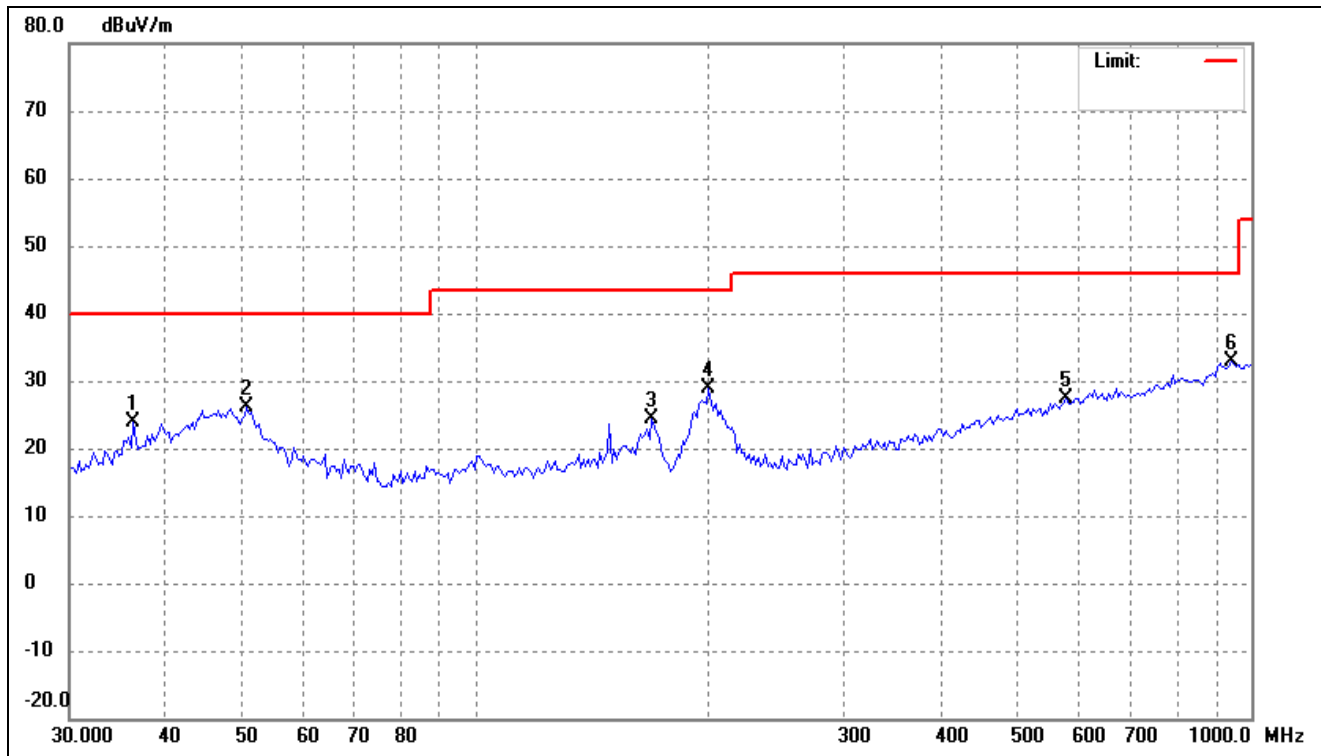
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	44.1544	31.50	-8.47	23.03	40.00	-16.97	-	-	peak
2	101.8932	30.33	-12.32	18.01	43.50	-25.49	-	-	peak
3	148.9175	31.93	-8.68	23.25	43.50	-20.25	-	-	peak
4	200.0432	38.96	-11.98	26.98	43.50	-16.52	-	-	peak
5	520.2079	30.68	-3.59	27.09	46.00	-18.91	-	-	peak
6	979.1392	30.36	2.28	32.64	54.00	-21.36	-	-	peak

802.11ac-HT40			
Test Channel	5270MHz(worst case)	Polarity:	Horizontal



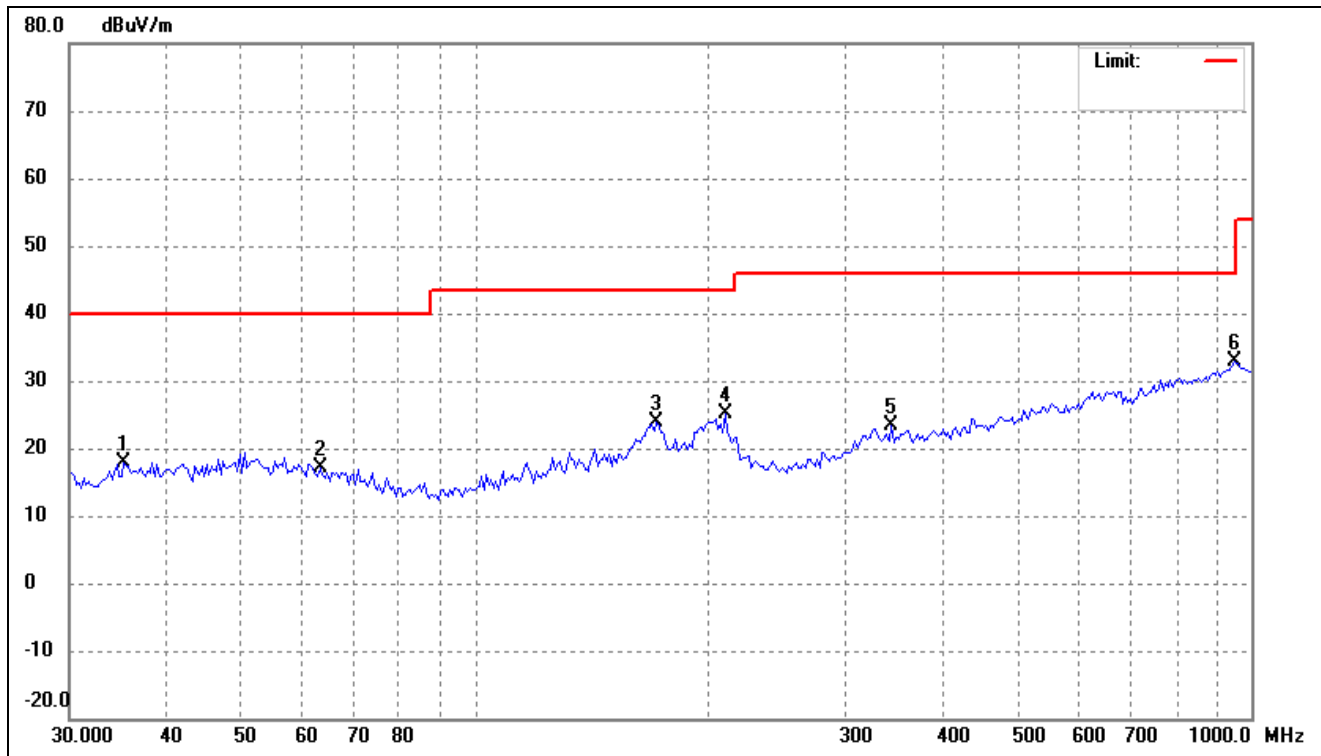
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	39.1825	27.67	-8.65	19.02	40.00	-20.98	-	-	peak
2	61.8676	27.97	-9.28	18.69	40.00	-21.31	-	-	peak
3	168.9970	33.32	-8.85	24.47	43.50	-19.03	-	-	peak
4	200.0432	37.49	-11.98	25.51	43.50	-17.99	-	-	peak
5	558.0788	29.89	-2.66	27.23	46.00	-18.77	-	-	peak
6	925.6132	30.76	1.74	32.50	46.00	-13.50	-	-	peak

802.11ac-HT40			
Test Channel	5270MHz(worst case)	Polarity:	Vertical



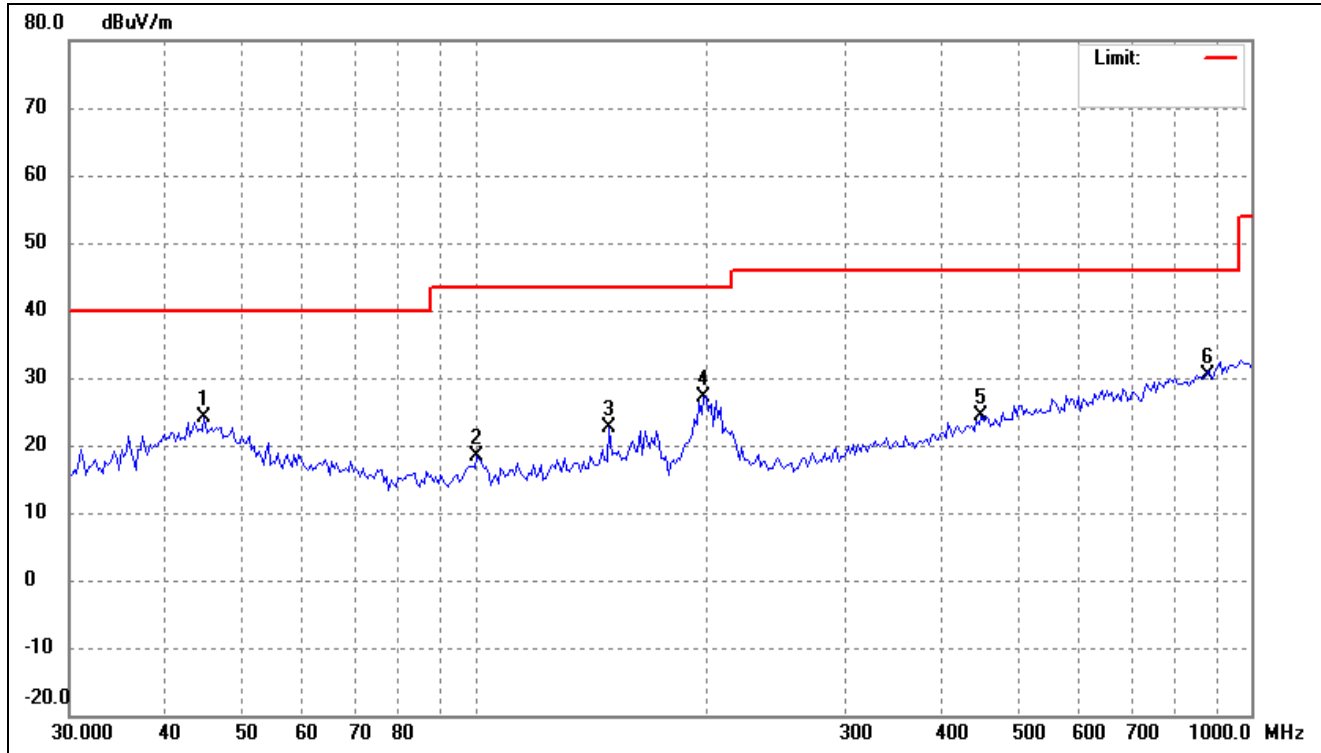
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	36.2678	33.12	-9.28	23.84	40.00	-16.16	-	-	peak
2	50.8172	34.26	-8.17	26.09	40.00	-13.91	-	-	peak
3	168.9970	33.23	-8.85	24.38	43.50	-19.12	-	-	peak
4	200.0432	40.74	-11.98	28.76	43.50	-14.74	-	-	peak
5	578.0359	29.47	-2.19	27.28	46.00	-18.72	-	-	peak
6	945.3336	30.70	2.15	32.85	46.00	-13.15	-	-	peak

802.11ax-HE40			
Test Channel	5270MHz(worst case)	Polarity:	Horizontal



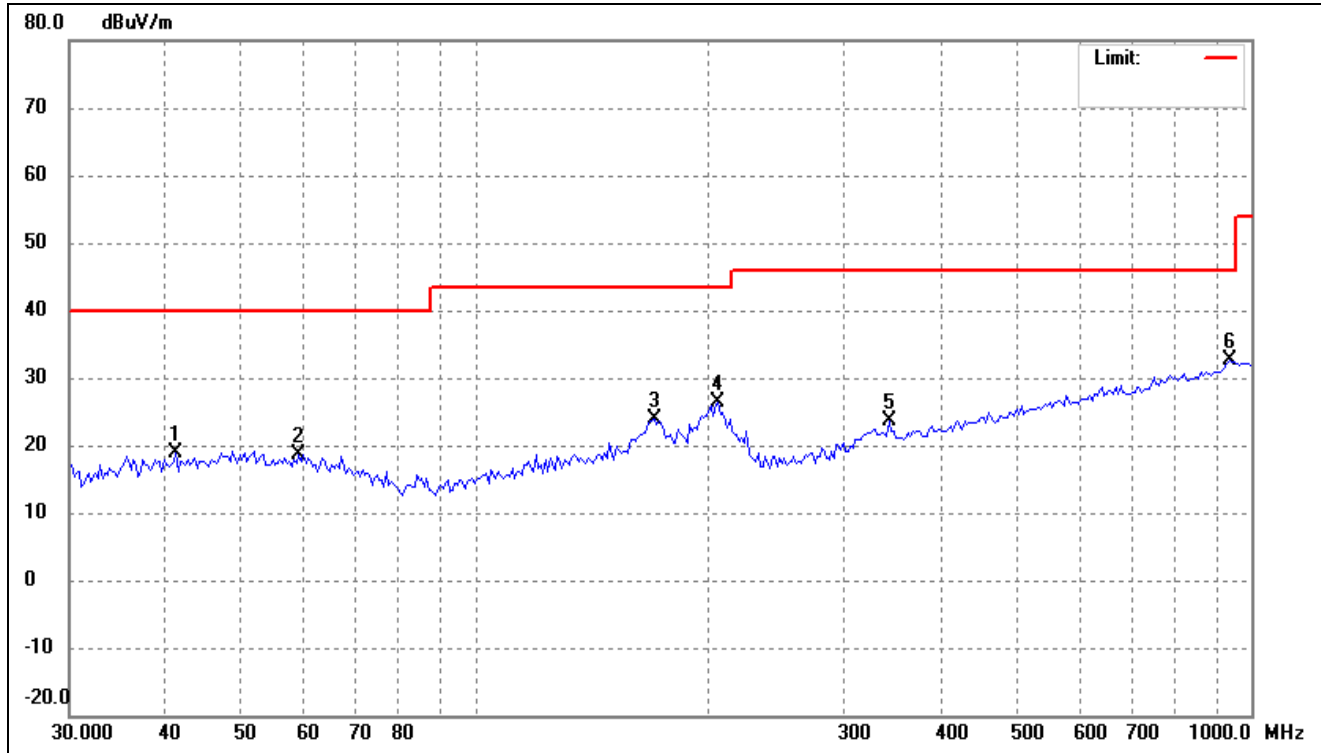
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.2626	27.31	-9.50	17.81	40.00	-22.19	-	-	peak
2	63.1857	26.60	-9.52	17.08	40.00	-22.92	-	-	peak
3	171.3890	32.92	-9.08	23.84	43.50	-19.66	-	-	peak
4	210.1294	37.33	-12.18	25.15	43.50	-18.35	-	-	peak
5	343.6506	30.63	-7.22	23.41	46.00	-22.59	-	-	peak
6	952.0001	30.55	2.25	32.80	46.00	-13.20	-	-	peak

802.11ax-HE40			
Test Channel	5270MHz(worst case)	Polarity:	Vertical



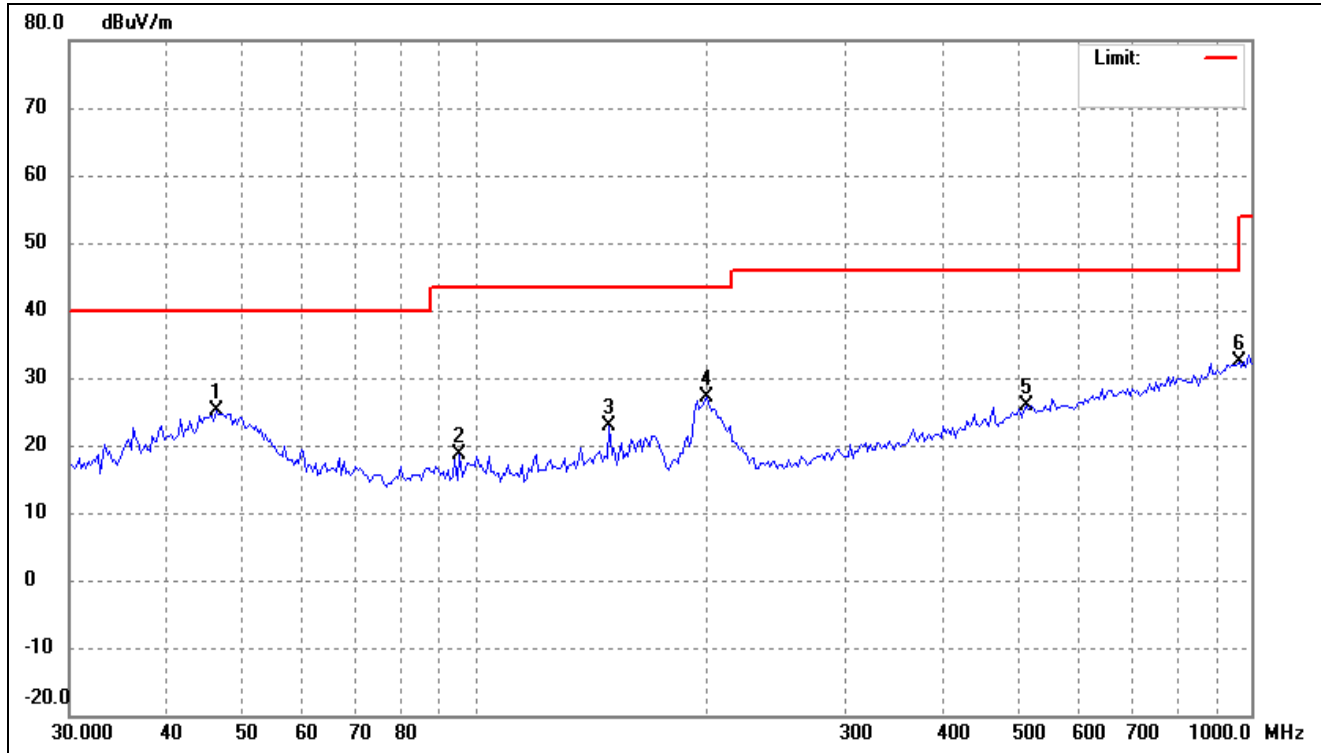
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	44.7793	32.69	-8.47	24.22	40.00	-15.78	-	-	peak
2	100.4712	30.74	-12.45	18.29	43.50	-25.21	-	-	peak
3	148.9175	31.28	-8.68	22.60	43.50	-20.90	-	-	peak
4	197.2514	38.98	-11.83	27.15	43.50	-16.35	-	-	peak
5	448.8361	29.05	-4.61	24.44	46.00	-21.56	-	-	peak
6	875.0133	29.51	0.97	30.48	46.00	-15.52	-	-	peak

802.11ac-HT80			
Test Channel	5290MHz(worst case)	Polarity:	Horizontal



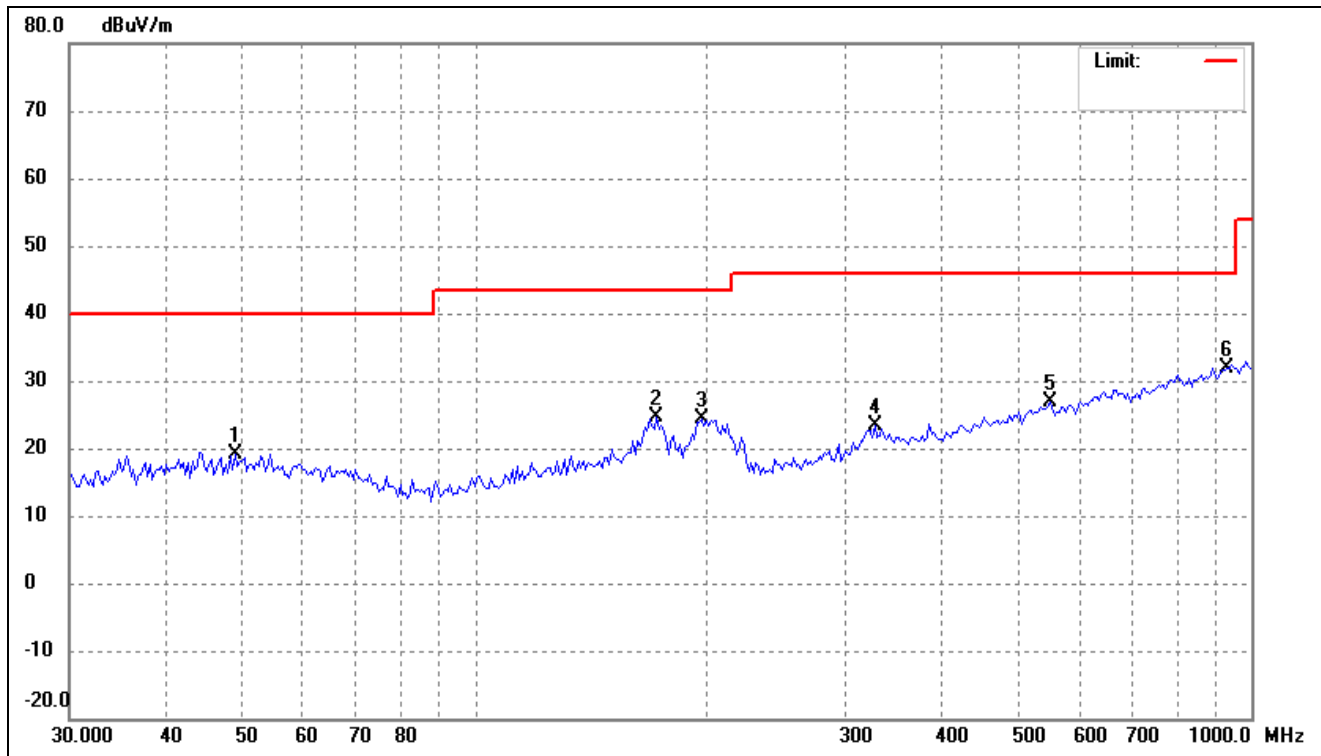
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	41.1581	27.35	-8.48	18.87	40.00	-21.13	-	-	peak
2	59.3133	27.55	-8.90	18.65	40.00	-21.35	-	-	peak
3	170.1888	32.72	-8.91	23.81	43.50	-19.69	-	-	peak
4	205.7459	38.36	-12.10	26.26	43.50	-17.24	-	-	peak
5	341.2442	30.81	-7.26	23.55	46.00	-22.45	-	-	peak
6	938.7139	30.69	2.01	32.70	46.00	-13.30	-	-	peak

802.11ac-HT80			
Test Channel	5290MHz(worst case)	Polarity:	Vertical



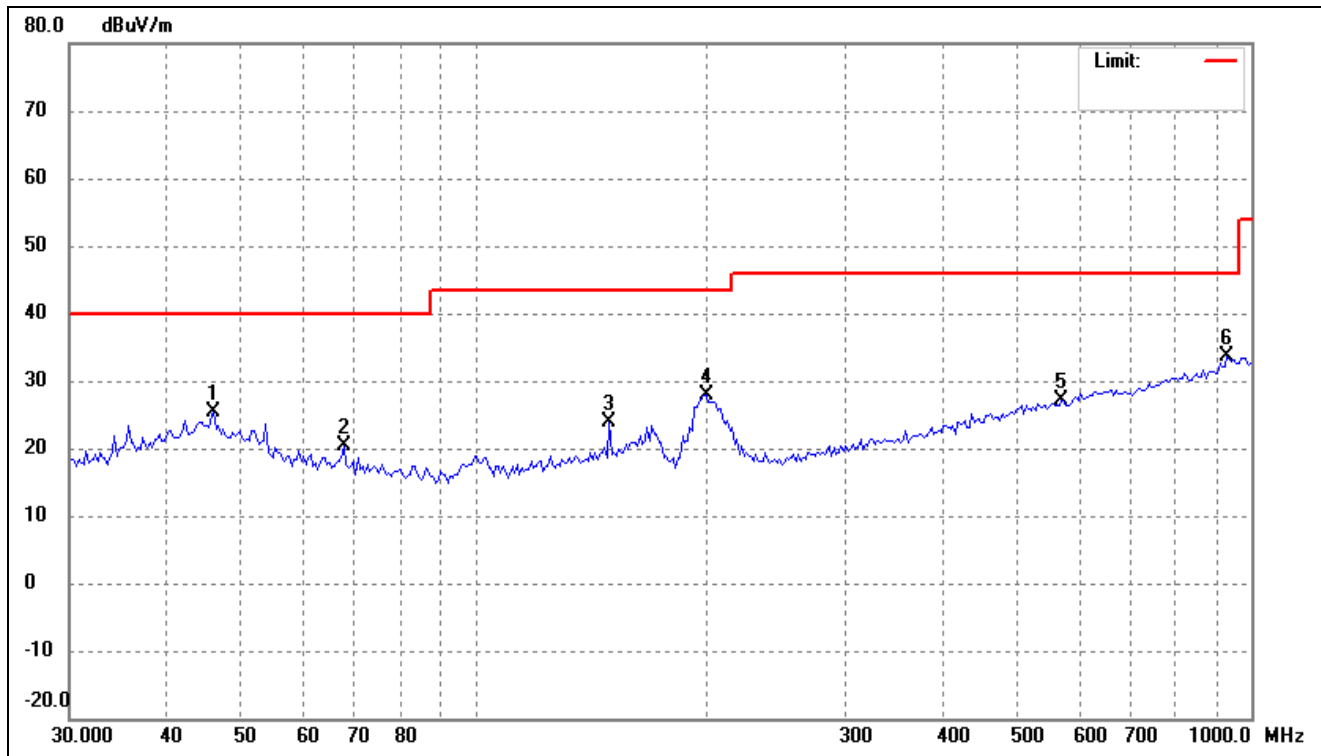
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	46.3806	33.48	-8.37	25.11	40.00	-14.89	-	-	peak
2	95.6485	31.31	-12.75	18.56	43.50	-24.94	-	-	peak
3	148.9175	31.59	-8.68	22.91	43.50	-20.59	-	-	peak
4	198.6424	38.95	-11.91	27.04	43.50	-16.46	-	-	peak
5	512.9478	29.61	-3.70	25.91	46.00	-20.09	-	-	peak
6	965.4742	30.06	2.27	32.33	54.00	-21.67	-	-	peak

802.11ax-HE80			
Test Channel	5290MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	49.0627	27.39	-8.15	19.24	40.00	-20.76	-	-	peak
2	171.3890	33.76	-9.08	24.68	43.50	-18.82	-	-	peak
3	195.8701	36.24	-11.75	24.49	43.50	-19.01	-	-	peak
4	327.1554	30.81	-7.51	23.30	46.00	-22.70	-	-	peak
5	550.2902	29.67	-2.84	26.83	46.00	-19.17	-	-	peak
6	932.1405	30.03	1.87	31.90	46.00	-14.10	-	-	peak

802.11ax-HE80			
Test Channel	5290MHz(worst case)	Polarity:	Vertical

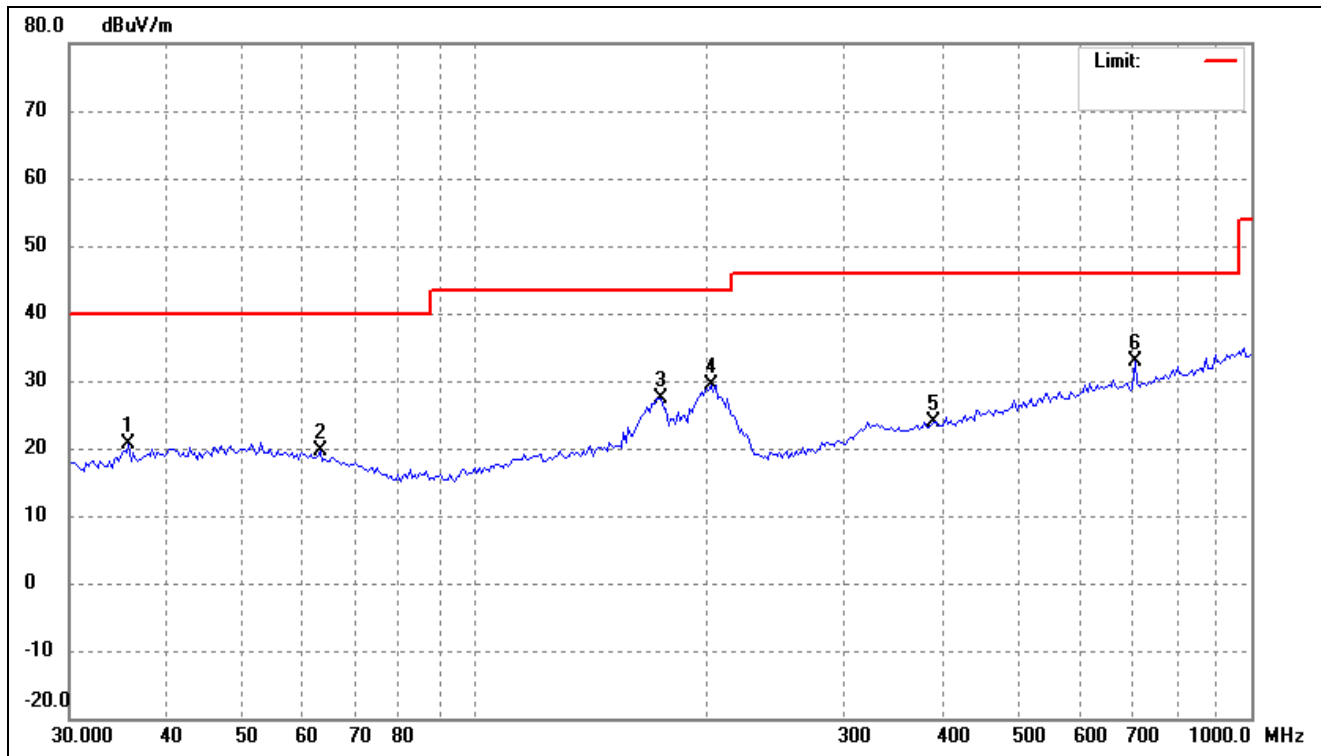


No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	46.0558	33.81	-8.38	25.43	40.00	-14.57	-	-	peak
2	67.7856	30.78	-10.36	20.42	40.00	-19.58	-	-	peak
3	148.9175	32.48	-8.68	23.80	43.50	-19.70	-	-	peak
4	198.6424	39.79	-11.91	27.88	43.50	-15.62	-	-	peak
5	569.9688	29.37	-2.36	27.01	46.00	-18.99	-	-	peak
6	932.1405	31.79	1.87	33.66	46.00	-12.34	-	-	peak

➤ 5470-5725MHz

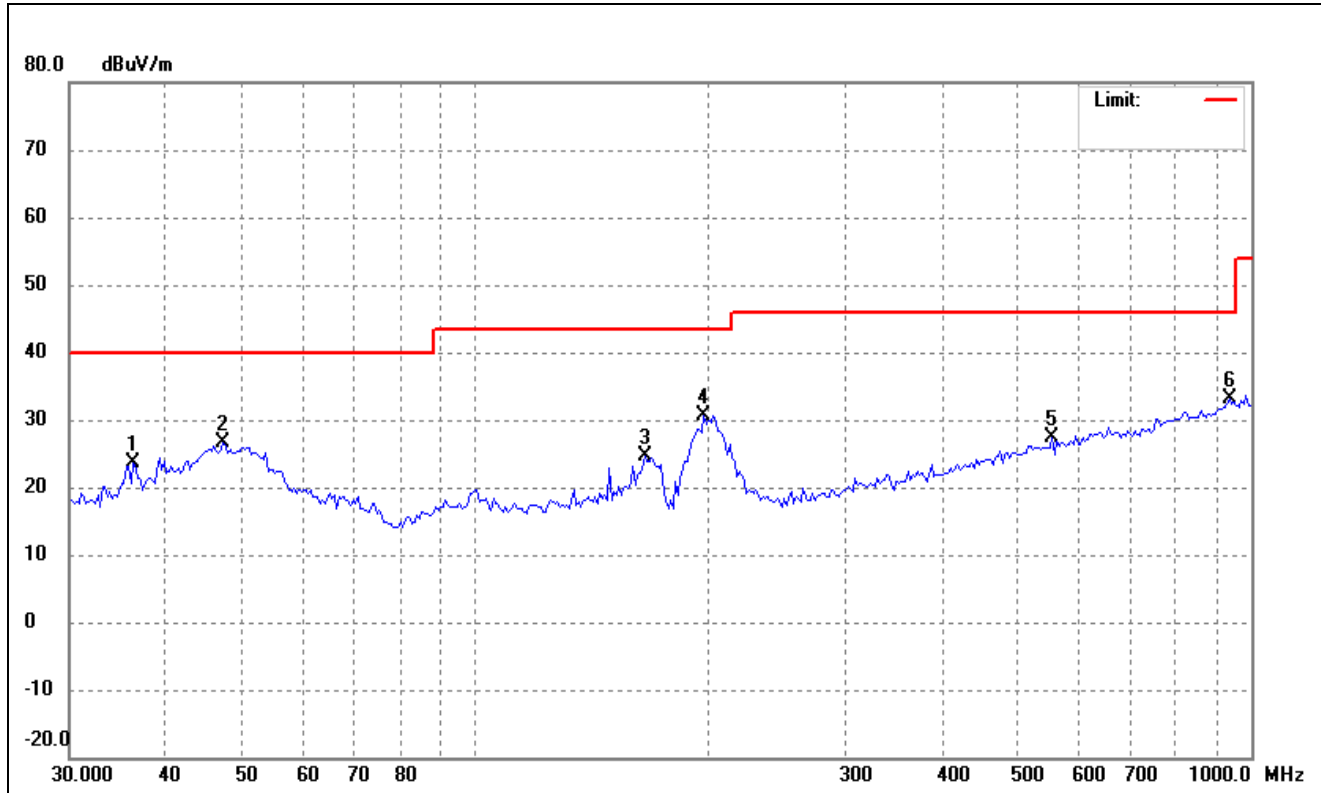
802.11a

Test Channel	5500MHz(Worst case)	Polarity:	Horizontal
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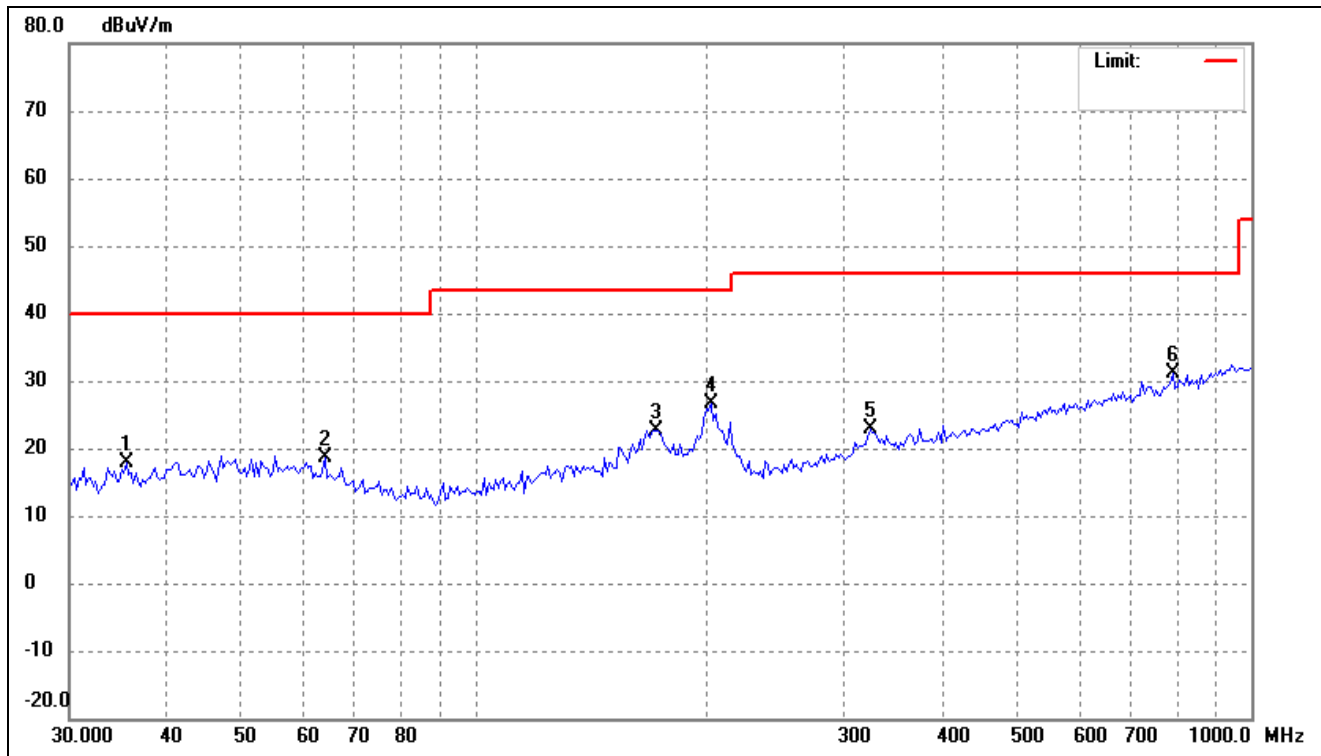
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.7617	29.93	-9.39	20.54	40.00	-19.46	-	-	peak
2	63.1857	29.06	-9.52	19.54	40.00	-20.46	-	-	peak
3	173.8147	36.90	-9.42	27.48	43.50	-16.02	-	-	peak
4	201.4539	41.42	-12.01	29.41	43.50	-14.09	-	-	peak
5	389.9874	30.13	-6.16	23.97	46.00	-22.03	-	-	peak
6	708.6941	33.71	-0.94	32.77	46.00	-13.23	-	-	peak

802.11a			
Test Channel	5500MHz(Worst case)	Polarity:	Vertical



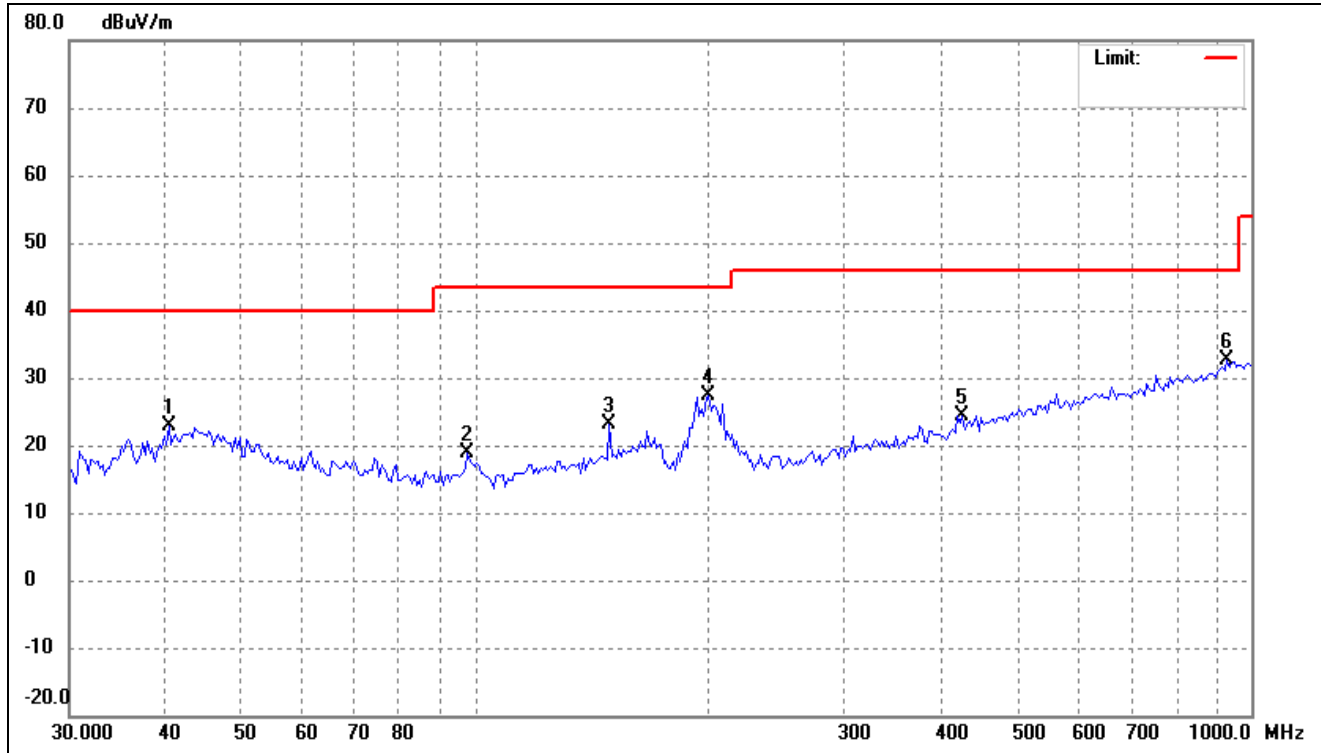
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	36.2678	32.81	-9.28	23.53	40.00	-16.47	-	-	peak
2	47.3688	35.04	-8.29	26.75	40.00	-13.25	-	-	peak
3	165.4716	33.42	-8.76	24.66	43.50	-18.84	-	-	peak
4	197.2514	42.41	-11.83	30.58	43.50	-12.92	-	-	peak
5	554.1708	30.10	-2.75	27.35	46.00	-18.65	-	-	peak
6	938.7139	31.04	2.01	33.05	46.00	-12.95	-	-	peak

802.11n-HT20			
Test Channel	5500MHz(Worst case)	Polarity:	Horizontal



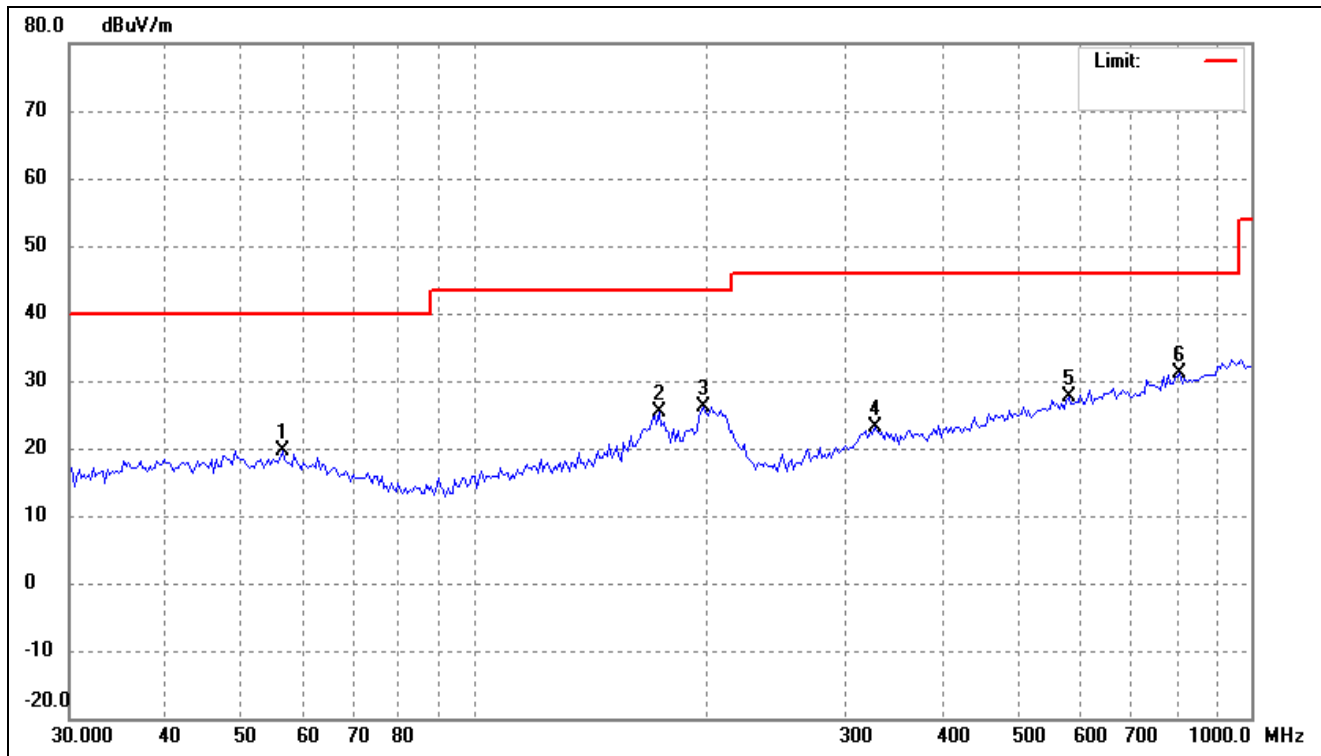
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.5112	27.27	-9.44	17.83	40.00	-22.17	-	-	peak
2	64.0800	28.33	-9.68	18.65	40.00	-21.35	-	-	peak
3	170.1888	31.55	-8.91	22.64	43.50	-20.86	-	-	peak
4	201.4539	38.59	-12.01	26.58	43.50	-16.92	-	-	peak
5	322.5896	30.44	-7.62	22.82	46.00	-23.18	-	-	peak
6	793.0281	30.82	0.23	31.05	46.00	-14.95	-	-	peak

802.11n-HT20			
Test Channel	5500MHz(Worst case)	Polarity:	Vertical



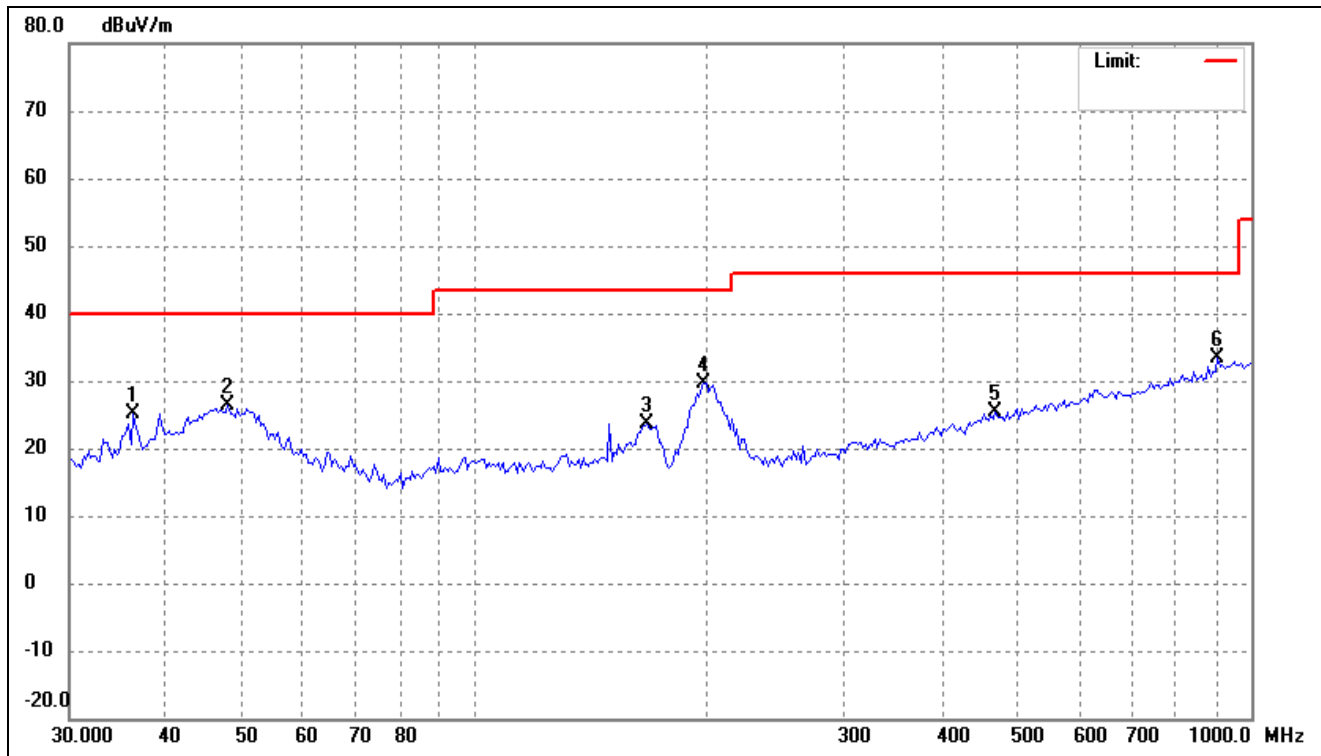
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	40.2995	31.24	-8.48	22.76	40.00	-17.24	-	-	peak
2	97.6864	31.40	-12.64	18.76	43.50	-24.74	-	-	peak
3	148.9175	31.74	-8.68	23.06	43.50	-20.44	-	-	peak
4	200.0432	39.26	-11.98	27.28	43.50	-16.22	-	-	peak
5	424.2999	29.68	-5.30	24.38	46.00	-21.62	-	-	peak
6	932.1405	30.68	1.87	32.55	46.00	-13.45	-	-	peak

802.11ac-HT20			
Test Channel	5500MHz(Worst case)	Polarity:	Horizontal



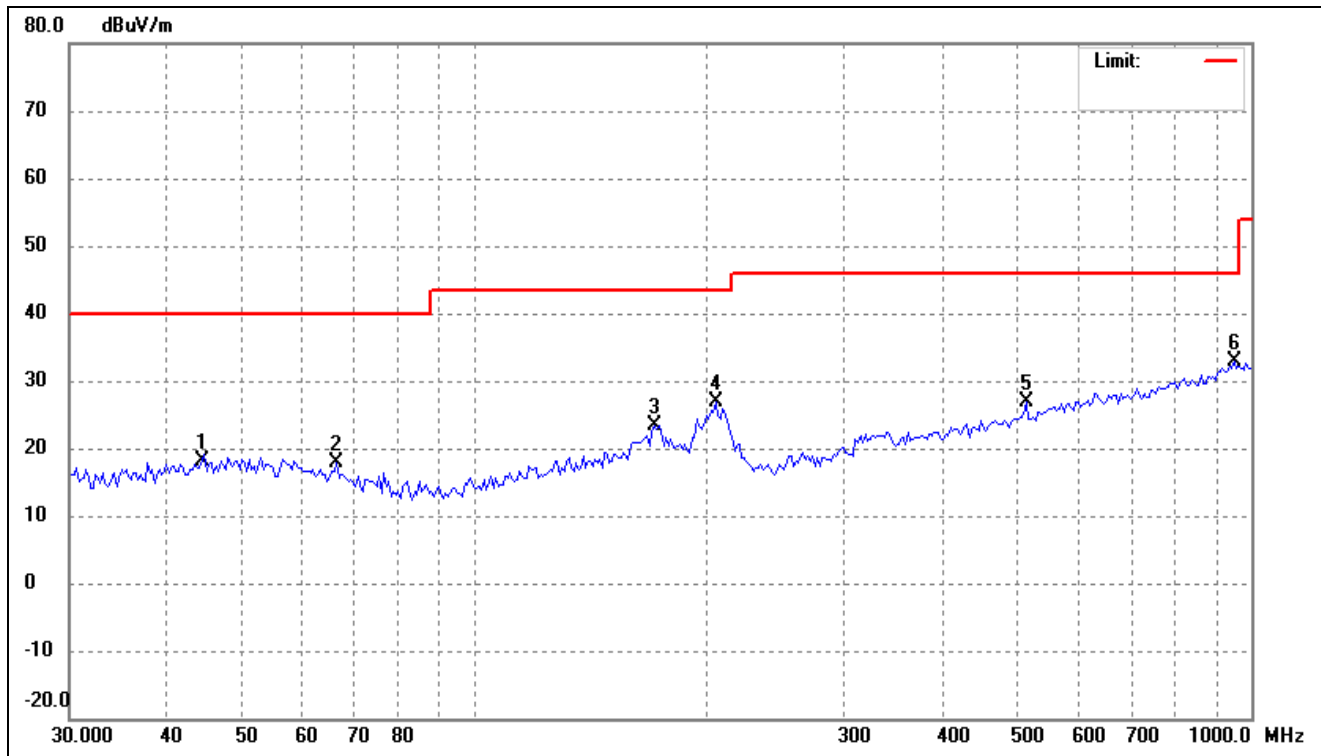
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	56.4662	28.24	-8.72	19.52	40.00	-20.48	-	-	peak
2	172.5976	34.52	-9.25	25.27	43.50	-18.23	-	-	peak
3	197.2514	38.08	-11.83	26.25	43.50	-17.25	-	-	peak
4	327.1554	30.57	-7.51	23.06	46.00	-22.94	-	-	peak
5	582.1122	29.70	-2.11	27.59	46.00	-18.41	-	-	peak
6	809.9238	30.76	0.39	31.15	46.00	-14.85	-	-	peak

802.11ac-HT20			
Test Channel	5500MHz(Worst case)	Polarity:	Vertical



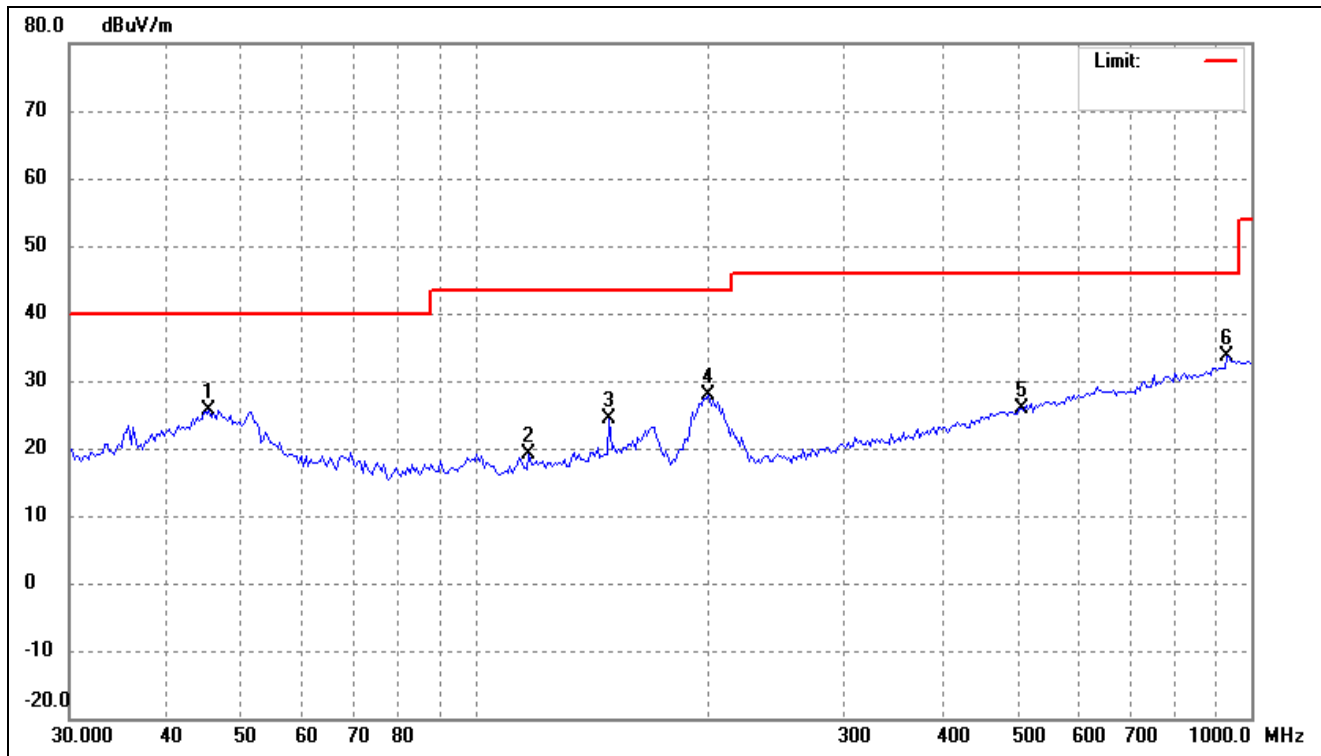
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	36.2678	34.40	-9.28	25.12	40.00	-14.88	-	-	peak
2	48.0392	34.58	-8.23	26.35	40.00	-13.65	-	-	peak
3	166.6385	32.51	-8.79	23.72	43.50	-19.78	-	-	peak
4	197.2514	41.49	-11.83	29.66	43.50	-13.84	-	-	peak
5	468.1651	29.67	-4.34	25.33	46.00	-20.67	-	-	peak
6	906.3041	32.12	1.32	33.44	46.00	-12.56	-	-	peak

802.11ax-HE20			
Test Channel	5500MHz(Worst case)	Polarity:	Horizontal



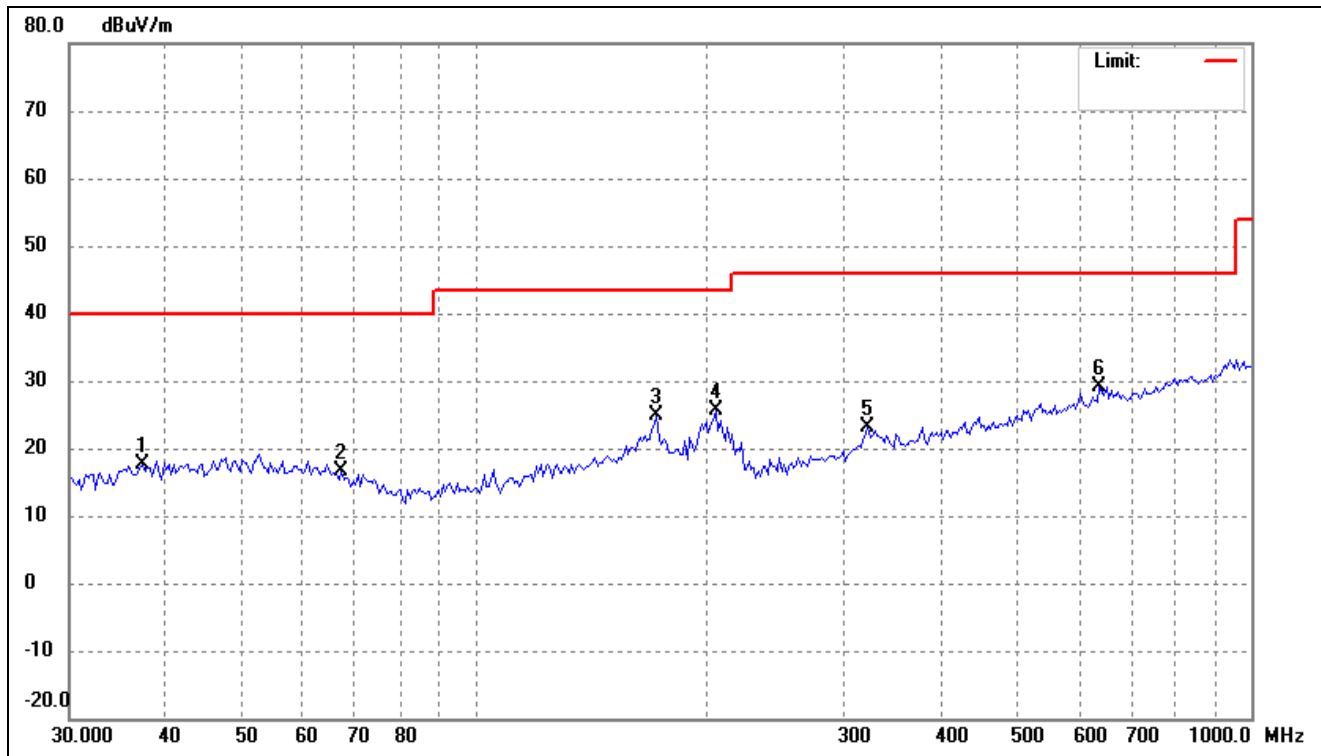
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	44.4657	26.67	-8.47	18.20	40.00	-21.80	-	-	peak
2	66.3715	27.88	-10.11	17.77	40.00	-22.23	-	-	peak
3	170.1888	32.38	-8.91	23.47	43.50	-20.03	-	-	peak
4	204.3052	38.84	-12.06	26.78	43.50	-16.72	-	-	peak
5	512.9478	30.46	-3.70	26.76	46.00	-19.24	-	-	peak
6	952.0001	30.63	2.25	32.88	46.00	-13.12	-	-	peak

802.11ax-HE20			
Test Channel	5500MHz(Worst case)	Polarity:	Vertical



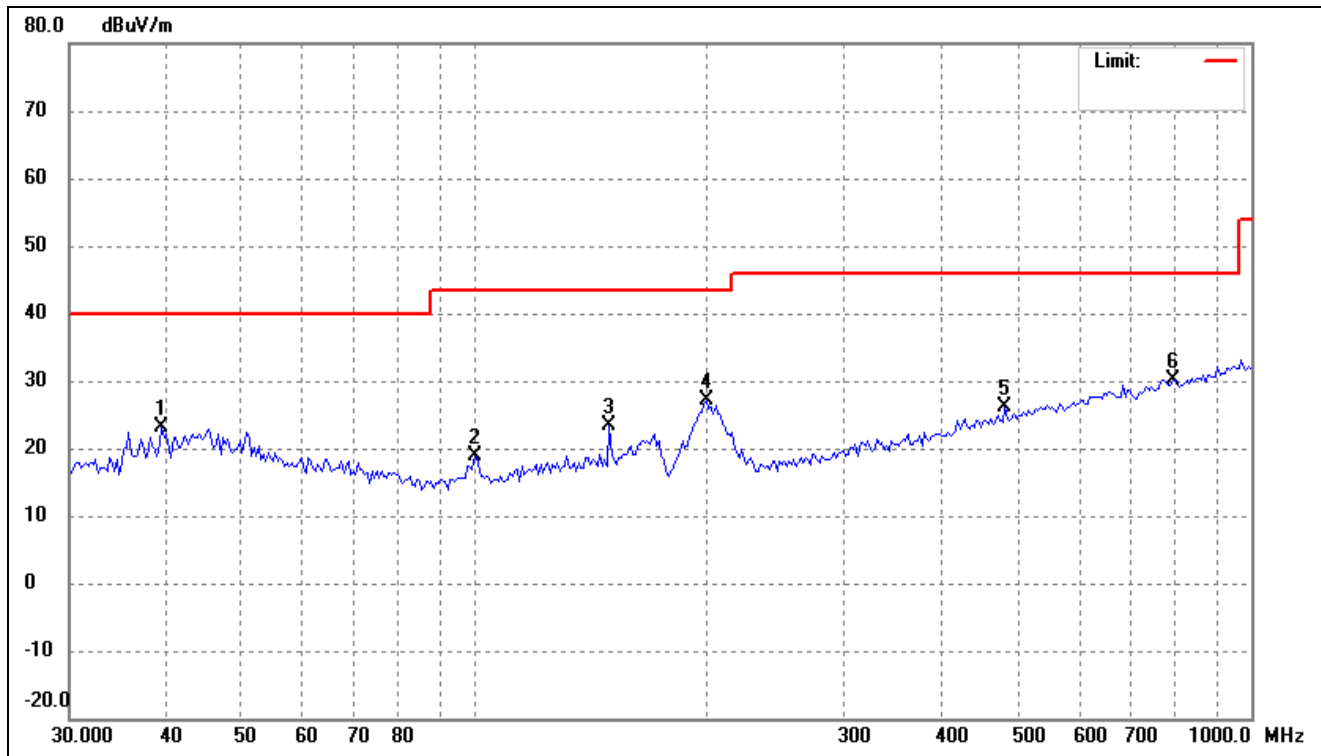
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	45.4131	34.15	-8.43	25.72	40.00	-14.28	-	-	peak
2	117.2688	29.96	-10.82	19.14	43.50	-24.36	-	-	peak
3	148.9175	33.01	-8.68	24.33	43.50	-19.17	-	-	peak
4	200.0432	39.83	-11.98	27.85	43.50	-15.65	-	-	peak
5	502.2473	29.65	-3.87	25.78	46.00	-20.22	-	-	peak
6	932.1405	31.66	1.87	33.53	46.00	-12.47	-	-	peak

802.11n-HT40			
Test Channel	5510MHz(worst case)	Polarity:	Horizontal



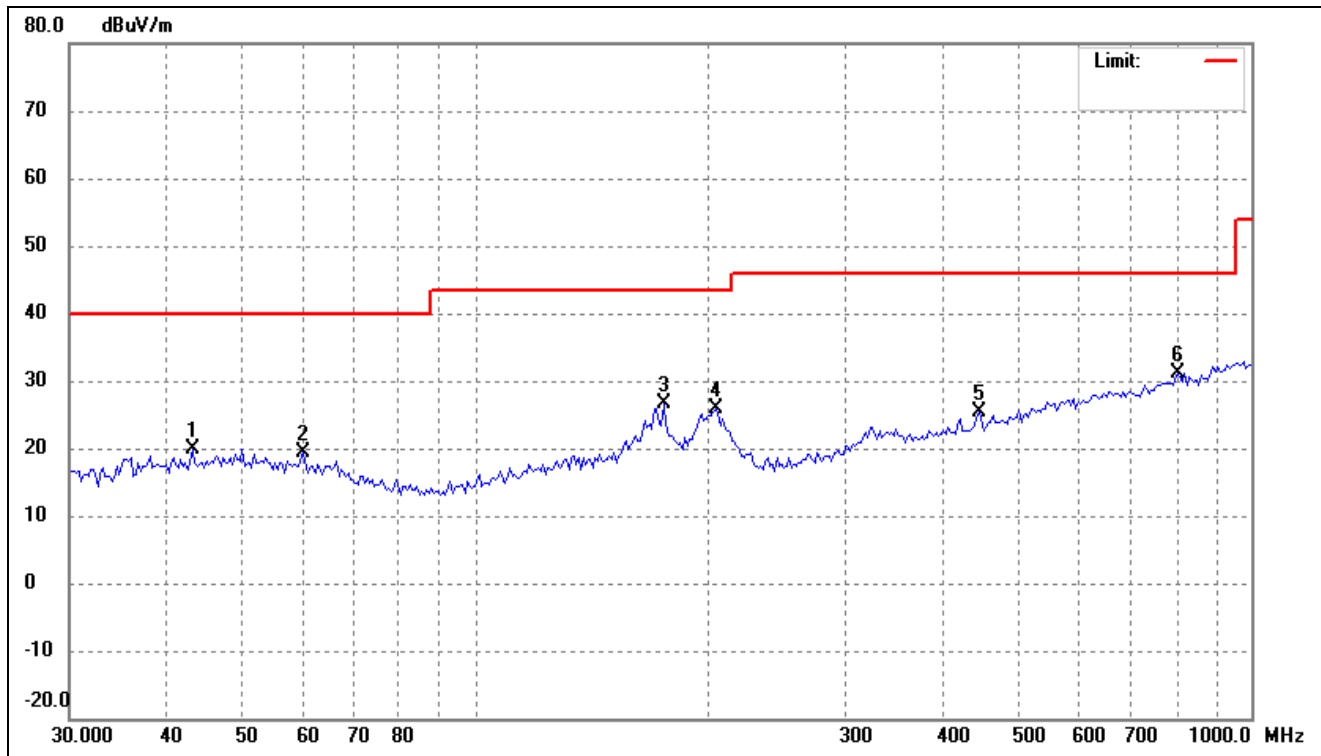
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	37.3017	26.66	-9.06	17.60	40.00	-22.40	-	-	peak
2	67.3109	27.01	-10.27	16.74	40.00	-23.26	-	-	peak
3	171.3890	33.98	-9.08	24.90	43.50	-18.60	-	-	peak
4	204.3052	37.72	-12.06	25.66	43.50	-17.84	-	-	peak
5	320.3306	30.77	-7.68	23.09	46.00	-22.91	-	-	peak
6	637.7947	30.49	-1.36	29.13	46.00	-16.87	-	-	peak

802.11n-HT40			
Test Channel	5510MHz(worst case)	Polarity:	Vertical



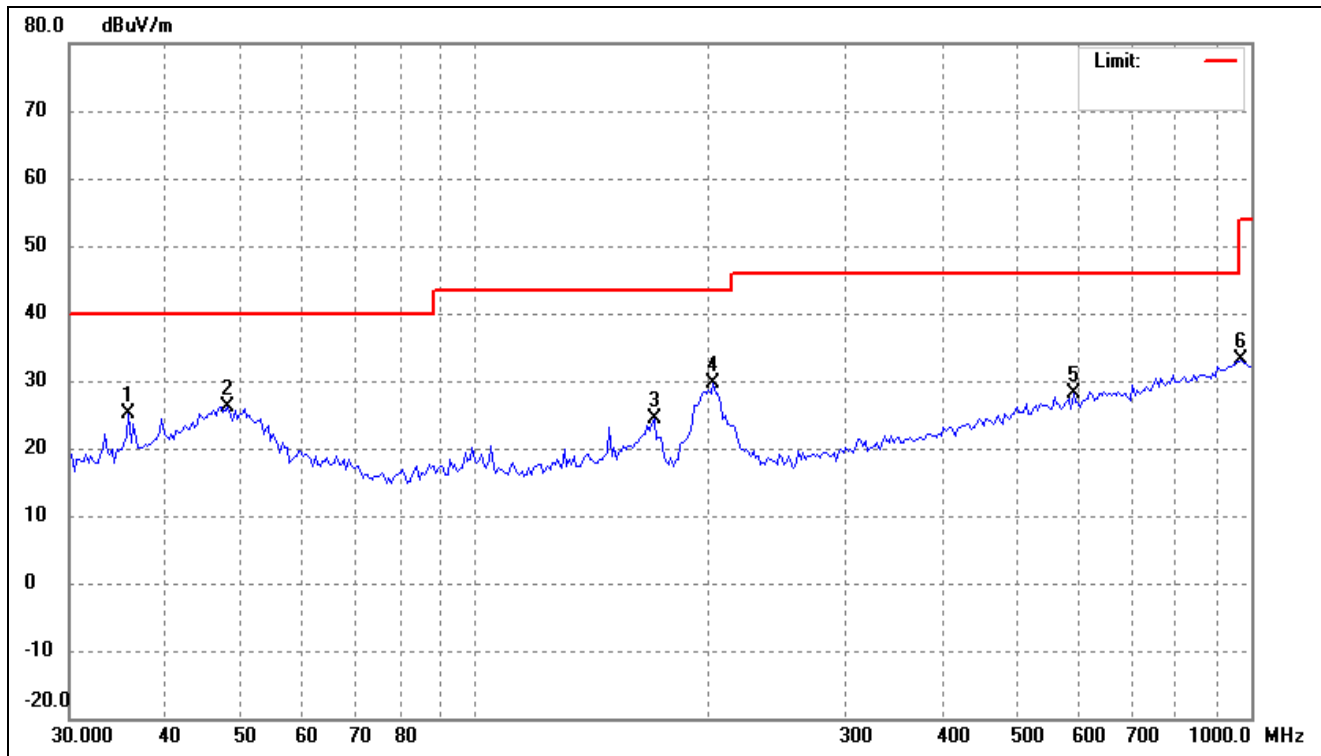
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	39.4588	31.74	-8.60	23.14	40.00	-16.86	-	-	peak
2	99.7676	31.29	-12.51	18.78	43.50	-24.72	-	-	peak
3	148.9175	32.05	-8.68	23.37	43.50	-20.13	-	-	peak
4	198.6424	39.15	-11.91	27.24	43.50	-16.26	-	-	peak
5	481.5112	30.32	-4.15	26.17	46.00	-19.83	-	-	peak
6	793.0281	29.83	0.23	30.06	46.00	-15.94	-	-	peak

802.11ac-HT40			
Test Channel	5510MHz(worst case)	Polarity:	Horizontal



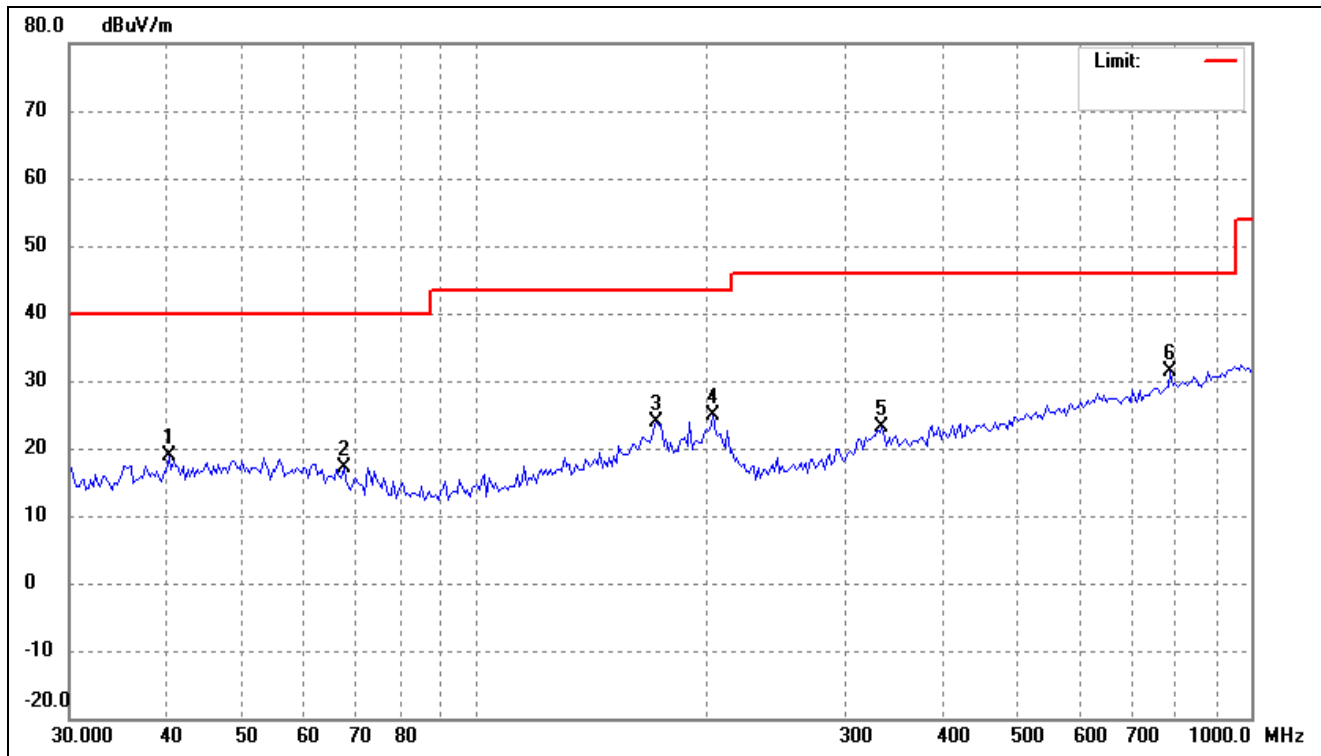
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	43.2333	28.32	-8.47	19.85	40.00	-20.15	-	-	peak
2	60.1528	28.40	-8.97	19.43	40.00	-20.57	-	-	peak
3	175.0404	36.34	-9.61	26.73	43.50	-16.77	-	-	peak
4	204.3052	37.93	-12.06	25.87	43.50	-17.63	-	-	peak
5	445.6932	30.05	-4.71	25.34	46.00	-20.66	-	-	peak
6	804.2523	30.90	0.34	31.24	46.00	-14.76	-	-	peak

802.11ac-HT40			
Test Channel	5510MHz(worst case)	Polarity:	Vertical



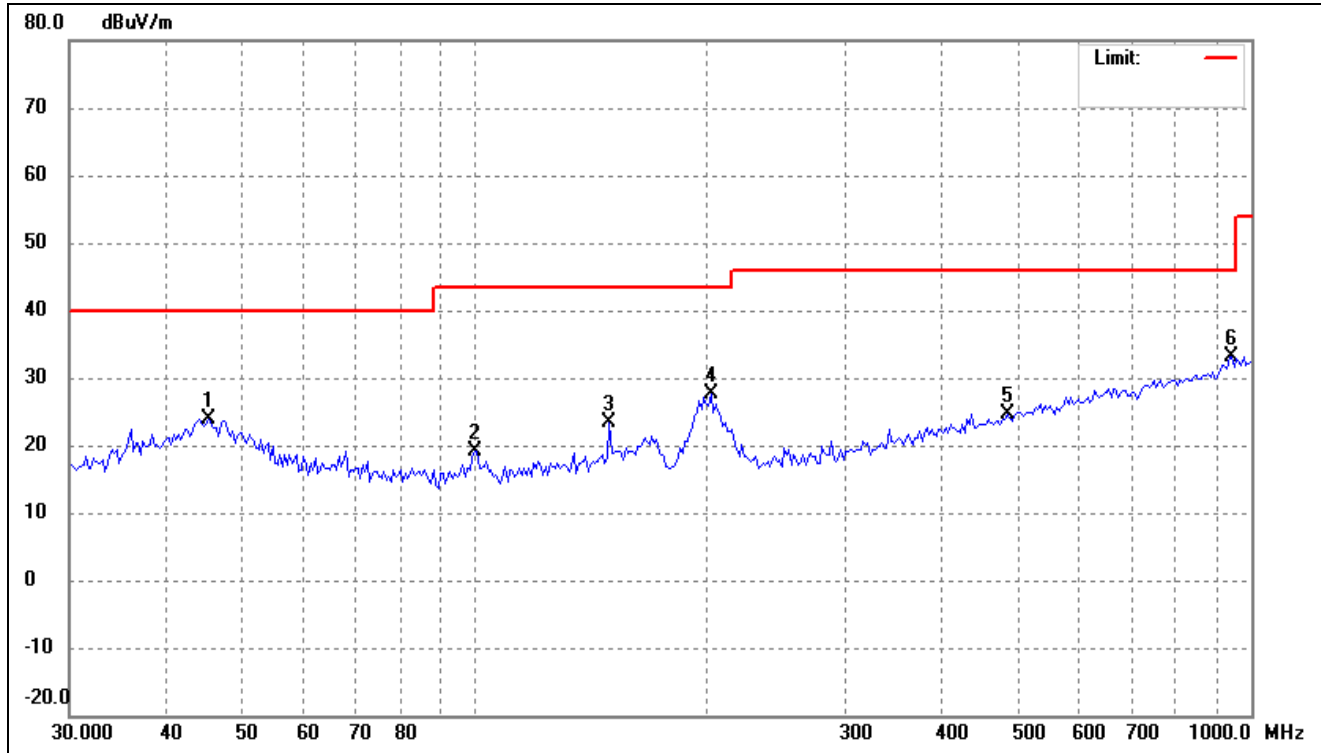
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.7617	34.50	-9.39	25.11	40.00	-14.89	-	-	peak
2	48.0392	34.35	-8.23	26.12	40.00	-13.88	-	-	peak
3	170.1888	33.27	-8.91	24.36	43.50	-19.14	-	-	peak
4	202.8745	41.77	-12.04	29.73	43.50	-13.77	-	-	peak
5	590.3511	29.98	-1.94	28.04	46.00	-17.96	-	-	peak
6	972.2827	30.88	2.27	33.15	54.00	-20.85	-	-	peak

802.11ax-HE40			
Test Channel	5510MHz(worst case)	Polarity:	Horizontal



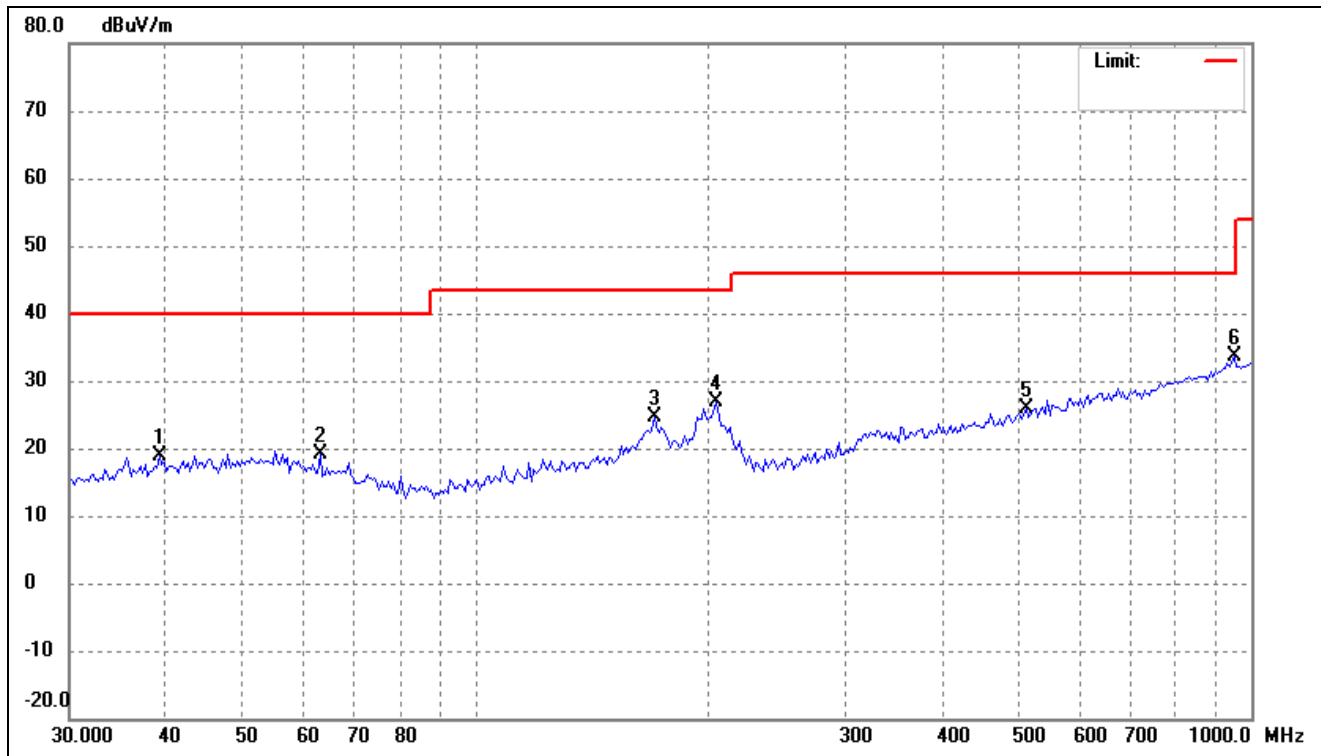
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	40.2995	27.37	-8.48	18.89	40.00	-21.11	-	-	peak
2	67.7856	27.40	-10.36	17.04	40.00	-22.96	-	-	peak
3	171.3890	32.98	-9.08	23.90	43.50	-19.60	-	-	peak
4	202.8745	37.03	-12.04	24.99	43.50	-18.51	-	-	peak
5	334.1255	30.41	-7.39	23.02	46.00	-22.98	-	-	peak
6	787.4749	31.27	0.19	31.46	46.00	-14.54	-	-	peak

802.11ax-HE40			
Test Channel	5510MHz(worst case)	Polarity:	Vertical



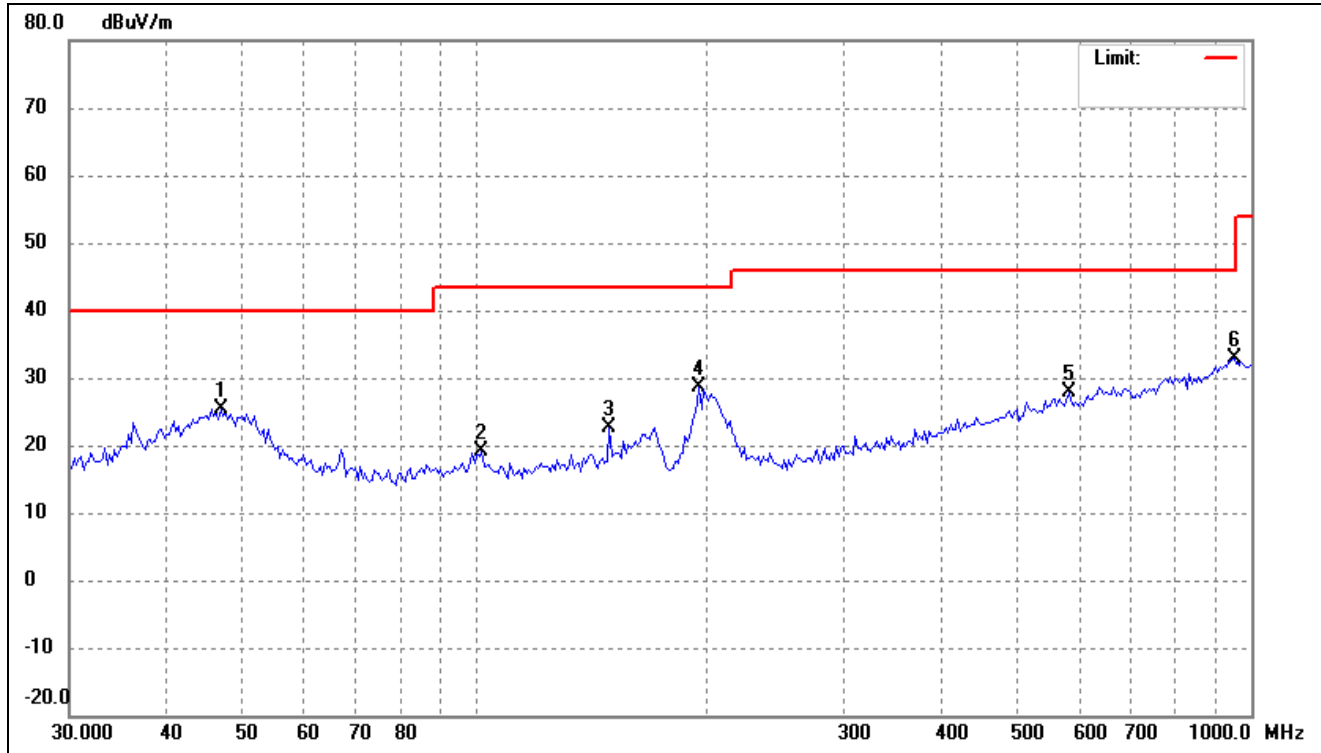
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	45.4131	32.39	-8.43	23.96	40.00	-16.04	-	-	peak
2	99.7676	31.72	-12.51	19.21	43.50	-24.29	-	-	peak
3	148.9175	32.12	-8.68	23.44	43.50	-20.06	-	-	peak
4	201.4539	39.63	-12.01	27.62	43.50	-15.88	-	-	peak
5	484.9068	28.81	-4.11	24.70	46.00	-21.30	-	-	peak
6	945.3336	30.91	2.15	33.06	46.00	-12.94	-	-	peak

802.11ac-HT80			
Test Channel	5530MHz(worst case)	Polarity:	Horizontal



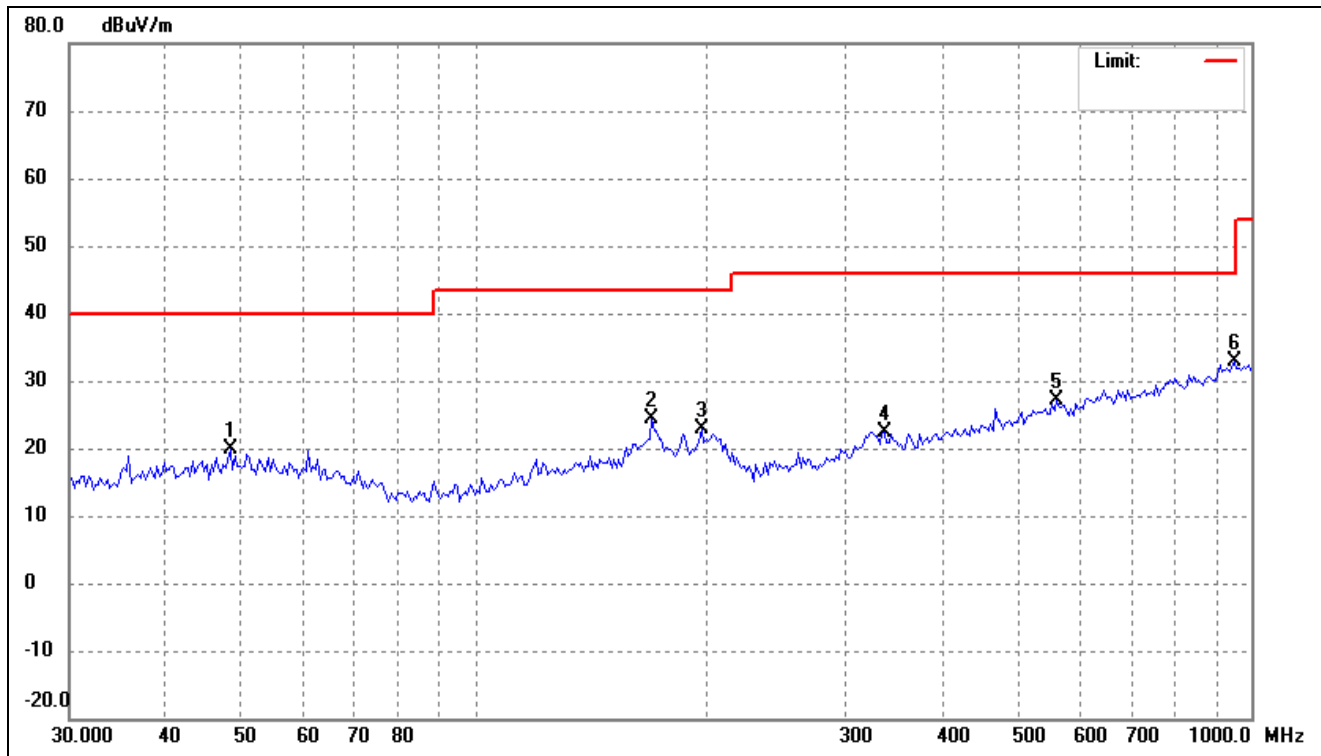
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	39.1825	27.41	-8.65	18.76	40.00	-21.24	-	-	peak
2	63.1857	28.65	-9.52	19.13	40.00	-20.87	-	-	peak
3	170.1888	33.65	-8.91	24.74	43.50	-18.76	-	-	peak
4	204.3052	38.92	-12.06	26.86	43.50	-16.64	-	-	peak
5	512.9478	29.57	-3.70	25.87	46.00	-20.13	-	-	peak
6	952.0001	31.26	2.25	33.51	46.00	-12.49	-	-	peak

802.11ac-HT80			
Test Channel	5530MHz(worst case)	Polarity:	Vertical



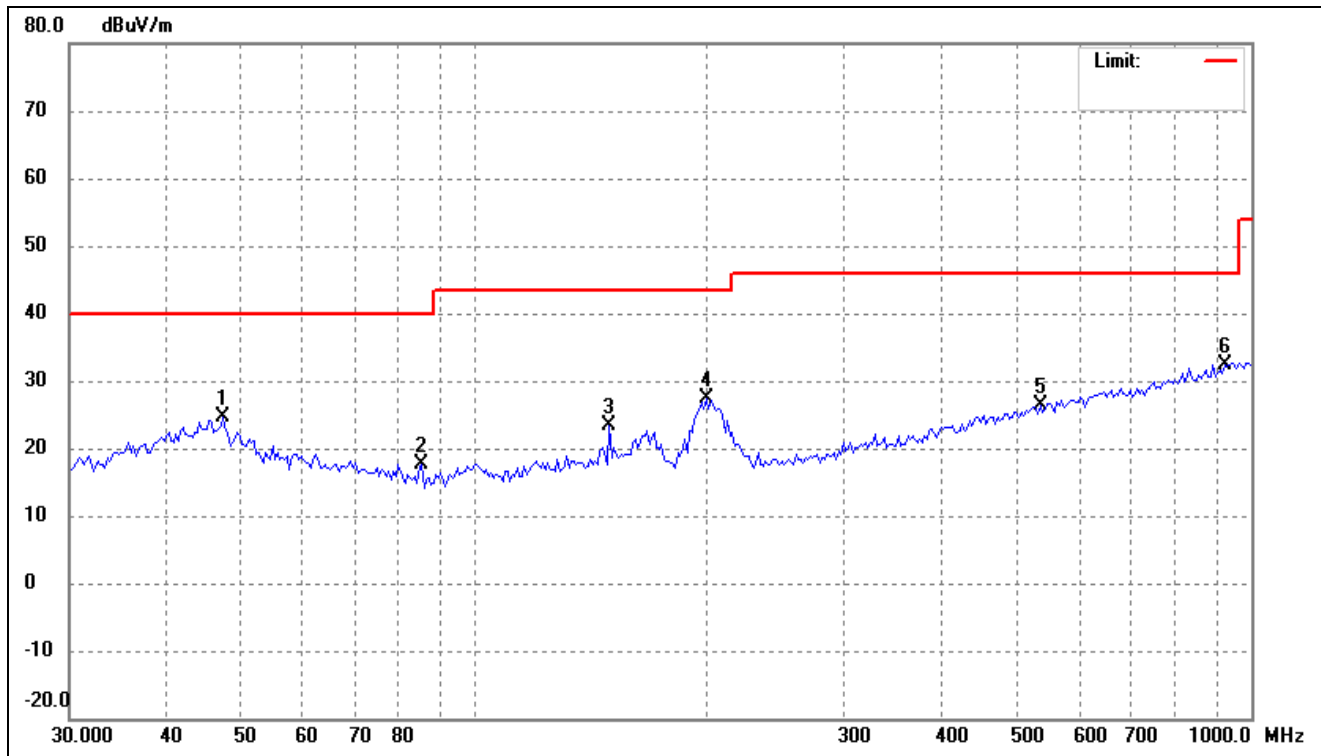
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	47.0371	33.65	-8.32	25.33	40.00	-14.67	-	-	peak
2	101.8932	31.44	-12.32	19.12	43.50	-24.38	-	-	peak
3	148.9175	31.21	-8.68	22.53	43.50	-20.97	-	-	peak
4	194.4985	40.29	-11.67	28.62	43.50	-14.88	-	-	peak
5	582.1122	30.05	-2.11	27.94	46.00	-18.06	-	-	peak
6	952.0001	30.62	2.25	32.87	46.00	-13.13	-	-	peak

802.11ax-HE80			
Test Channel	5530MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	48.3780	27.99	-8.21	19.78	40.00	-20.22	-	-	peak
2	168.9970	33.18	-8.85	24.33	43.50	-19.17	-	-	peak
3	195.8701	34.66	-11.75	22.91	43.50	-20.59	-	-	peak
4	336.4817	29.80	-7.35	22.45	46.00	-23.55	-	-	peak
5	562.0143	29.75	-2.55	27.20	46.00	-18.80	-	-	peak
6	952.0001	30.63	2.25	32.88	46.00	-13.12	-	-	peak

802.11ax-HE80			
Test Channel	5530MHz(worst case)	Polarity:	Vertical

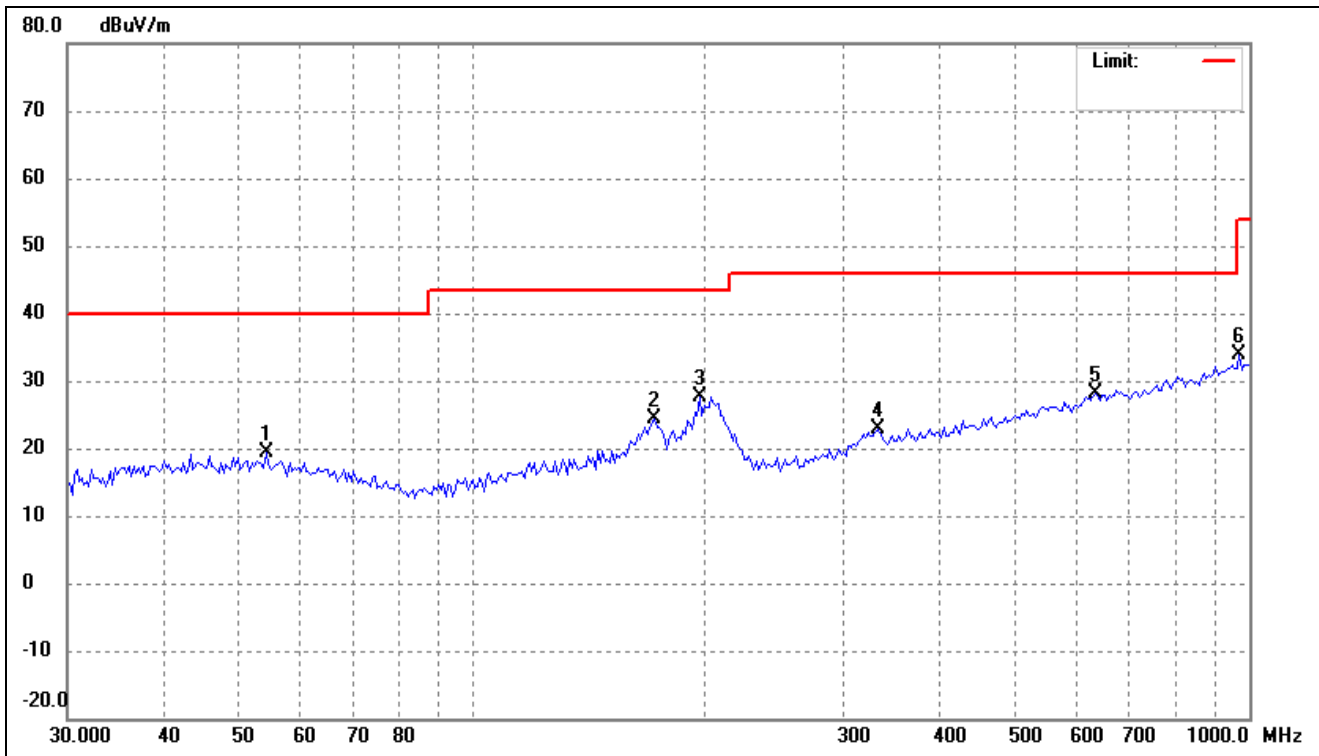


No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	47.3688	32.94	-8.29	24.65	40.00	-15.35	-	-	peak
2	85.4769	30.65	-13.04	17.61	40.00	-22.39	-	-	peak
3	148.9175	32.05	-8.68	23.37	43.50	-20.13	-	-	peak
4	198.6424	39.23	-11.91	27.32	43.50	-16.18	-	-	peak
5	535.0377	29.64	-3.25	26.39	46.00	-19.61	-	-	peak
6	925.6132	30.73	1.74	32.47	46.00	-13.53	-	-	peak

➤ 5725-5850MHz

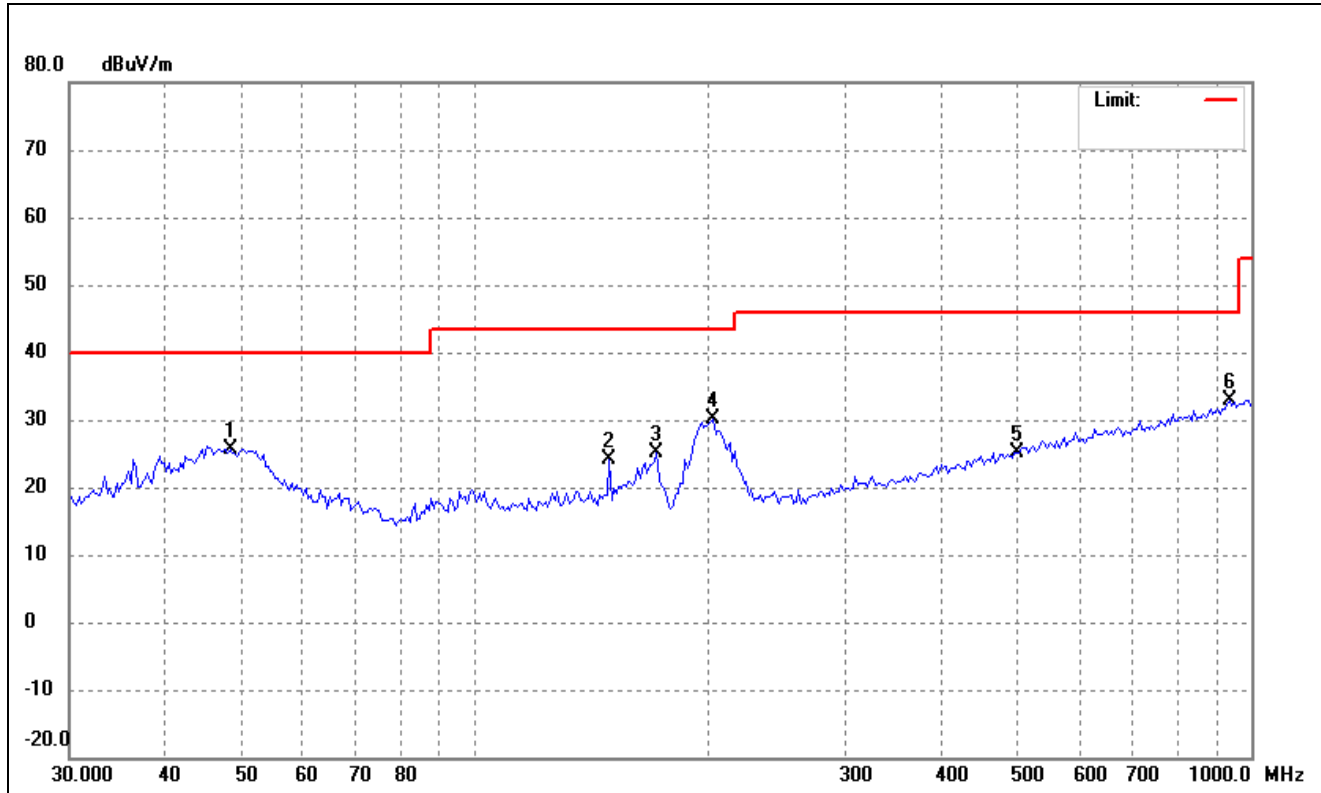
802.11a

Test Channel	5745MHz(worst case)	Polarity:	Horizontal
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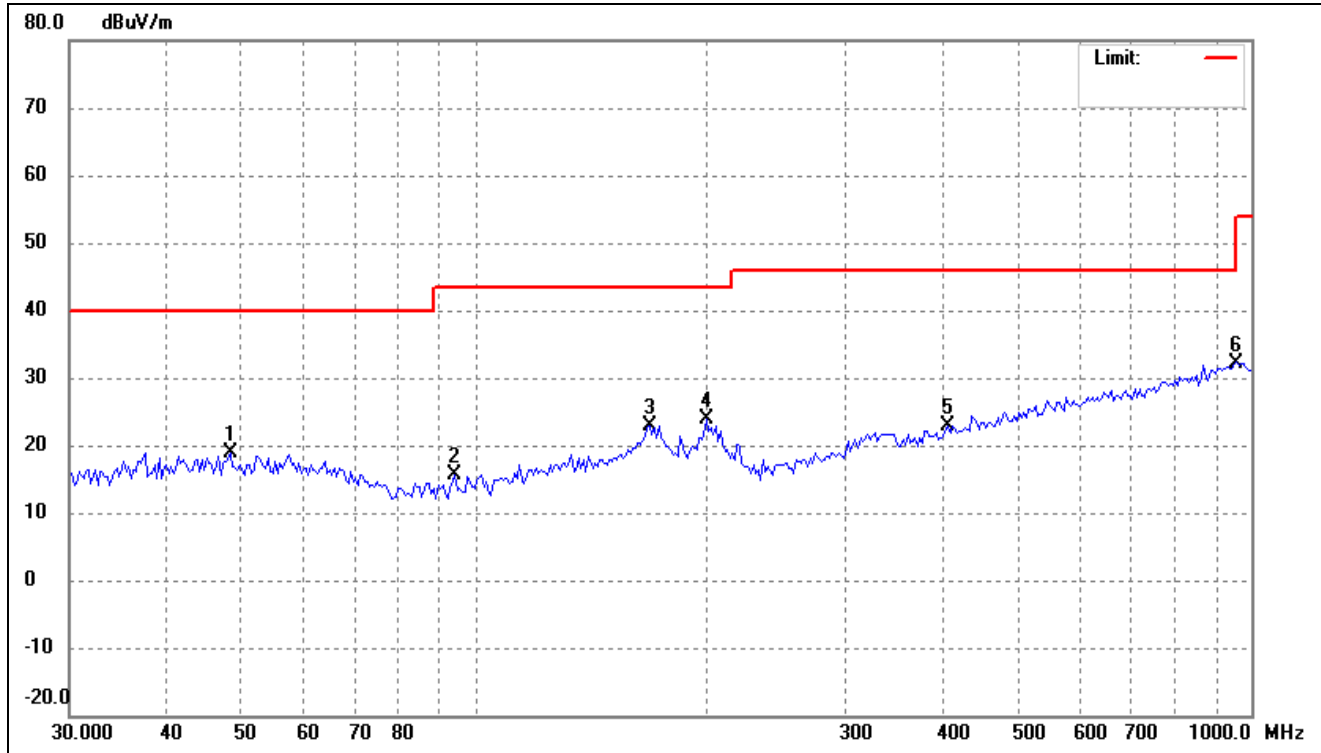
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	54.1349	27.98	-8.54	19.44	40.00	-20.56	-	-	peak
2	171.3890	33.51	-9.08	24.43	43.50	-19.07	-	-	peak
3	195.8701	39.40	-11.75	27.65	43.50	-15.85	-	-	peak
4	331.7858	30.27	-7.43	22.84	46.00	-23.16	-	-	peak
5	633.3285	29.47	-1.37	28.10	46.00	-17.90	-	-	peak
6	972.2827	31.63	2.27	33.90	54.00	-20.10	-	-	peak

802.11a			
Test Channel	5745MHz(worst case)	Polarity:	Vertical



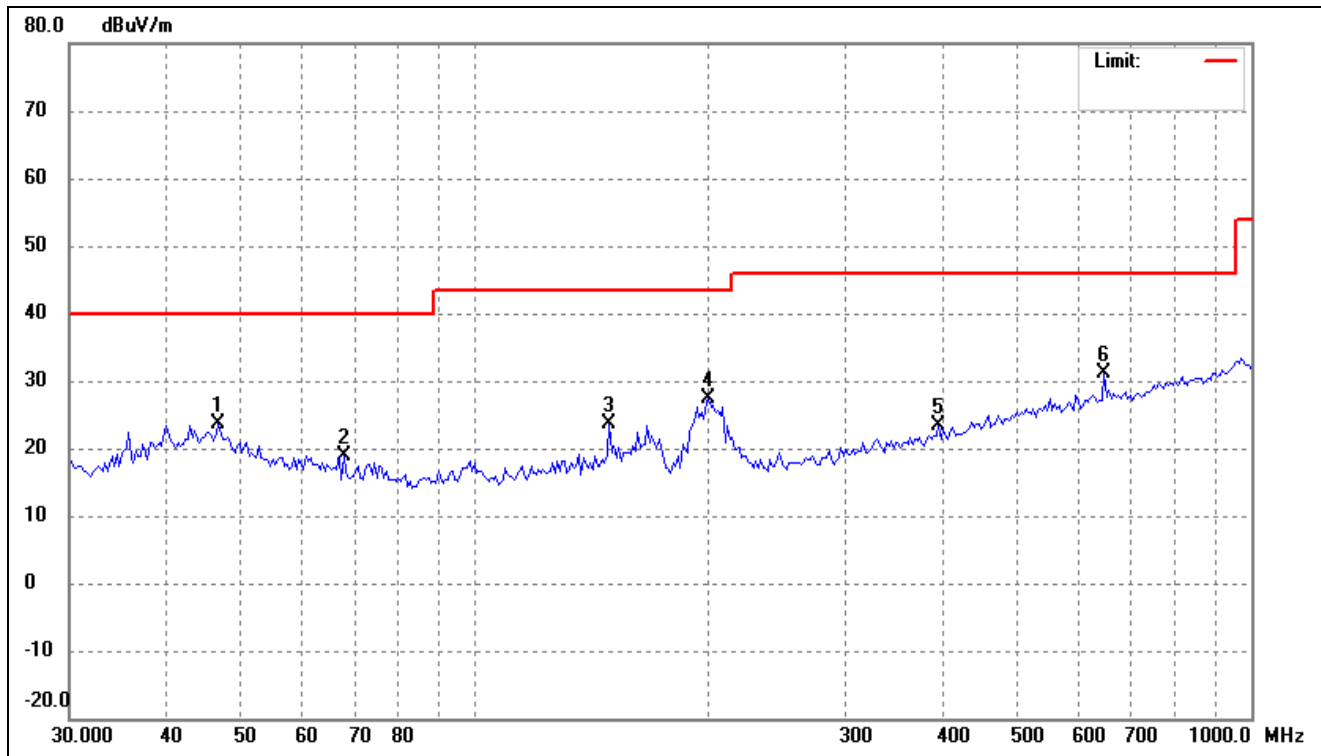
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	48.3780	33.95	-8.21	25.74	40.00	-14.26	-	-	peak
2	148.9175	32.91	-8.68	24.23	43.50	-19.27	-	-	peak
3	171.3890	34.26	-9.08	25.18	43.50	-18.32	-	-	peak
4	202.8745	42.20	-12.04	30.16	43.50	-13.34	-	-	peak
5	498.7303	29.15	-3.92	25.23	46.00	-20.77	-	-	peak
6	938.7139	30.76	2.01	32.77	46.00	-13.23	-	-	peak

802.11n-HT20			
Test Channel	5745MHz(worst case)	Polarity:	Horizontal



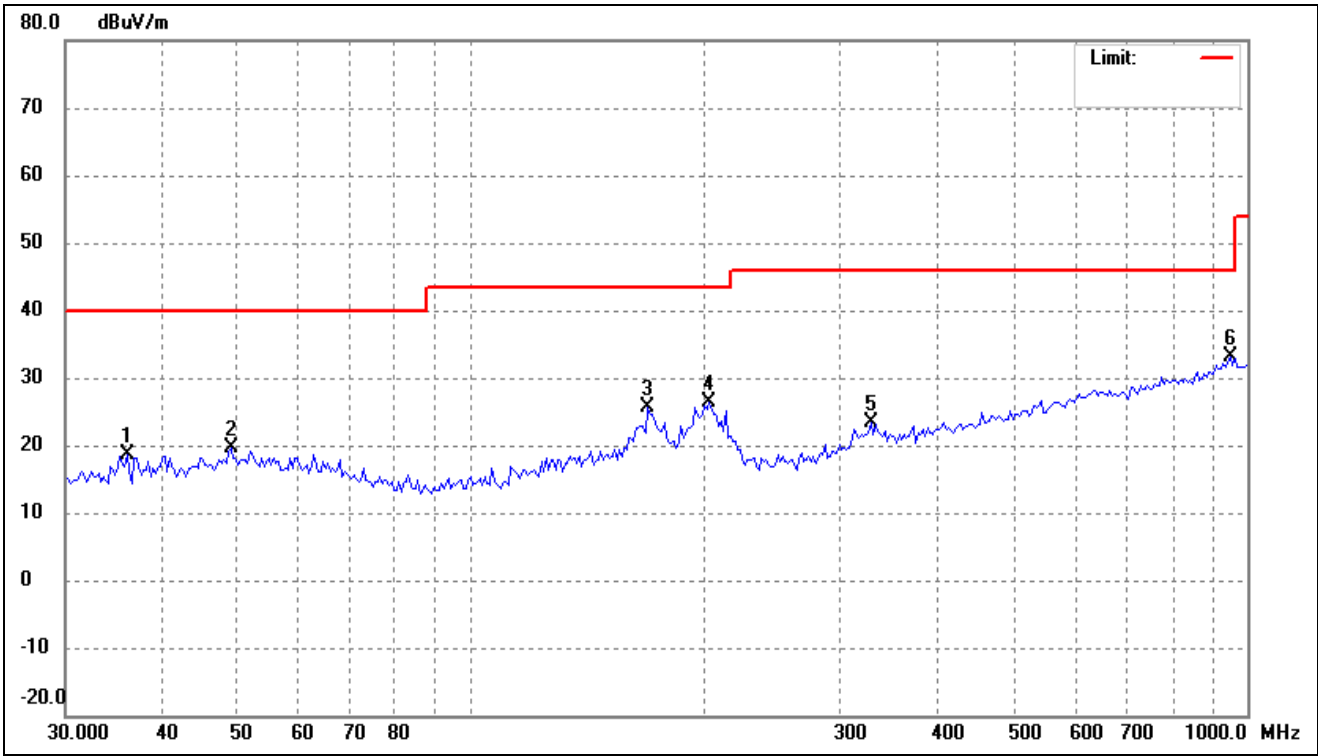
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	48.3780	27.03	-8.21	18.82	40.00	-21.18	-	-	peak
2	94.3137	28.59	-12.84	15.75	43.50	-27.75	-	-	peak
3	167.8136	31.73	-8.82	22.91	43.50	-20.59	-	-	peak
4	198.6424	35.86	-11.91	23.95	43.50	-19.55	-	-	peak
5	406.7820	28.65	-5.78	22.87	46.00	-23.13	-	-	peak
6	952.0001	29.97	2.25	32.22	46.00	-13.78	-	-	peak

802.11n-HT20			
Test Channel	5745MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	46.7077	32.02	-8.34	23.68	40.00	-16.32	-	-	peak
2	67.7856	29.29	-10.36	18.93	40.00	-21.07	-	-	peak
3	148.9175	32.26	-8.68	23.58	43.50	-19.92	-	-	peak
4	200.0432	39.45	-11.98	27.47	43.50	-16.03	-	-	peak
5	395.5071	29.40	-6.05	23.35	46.00	-22.65	-	-	peak
6	646.8217	32.35	-1.32	31.03	46.00	-14.97	-	-	peak

802.11ac-HT20			
Test Channel	5745MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	36.0139	27.96	-9.33	18.63	40.00	-21.37	-	-	peak
2	49.0627	27.80	-8.15	19.65	40.00	-20.35	-	-	peak
3	168.9970	34.60	-8.85	25.75	43.50	-17.75	-	-	peak
4	202.8745	38.39	-12.04	26.35	43.50	-17.15	-	-	peak
5	327.1554	30.84	-7.51	23.33	46.00	-22.67	-	-	peak
6	952.0001	30.77	2.25	33.02	46.00	-12.98	-	-	peak