

TEST REPORT

Reference No...... : WTX25X08219143W001
FCC ID..... : A4X-L5102
Applicant..... : CE LINK LIMITED
Address..... : 22 Dongkang Road, Dalingshan Town, Dongguan City, Guangdong
Province, China.
Manufacturer..... : DONGGUAN CE LINK LIMITED
Address..... : 22 Dongkang Road, Dalingshan Town, Dongguan City, Guangdong
Province, China.
Product Name..... : Solar Battery Camera
Model No...... : L5102
Standards..... : 47 CFR FCC Part 15.407, surbpart E
Date of Receipt sample..... : 2025-08-15
Date of Test..... : 2025-08-15 to 2025-08-29
Date of Issue..... : 2025-08-29
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.

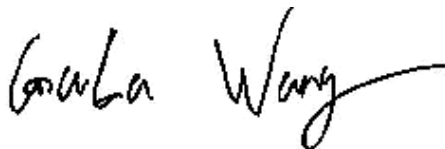
Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,
Block 70 Bao'an District, Shenzhen, Guangdong, China

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Email: sem@waltek.com.cn

Tested by:



Gala Wang/Project Engineer

Approved by:



Jason Su/Manager

TABLE OF CONTENTS

1. GENERAL INFORMATION	5
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
1.2 TEST STANDARDS	8
1.3 TEST METHODOLOGY	8
1.4 TABLE FOR PARAMETERS OF TEST SOFTWARE SETTING	8
1.5 EUT OPERATING DURING TEST	10
1.6 TEST FACILITY	10
1.7 EUT SETUP AND TEST MODE	11
1.8 MEASUREMENT UNCERTAINTY	13
1.9 TEST EQUIPMENT LIST AND DETAILS	14
2. SUMMARY OF TEST RESULTS	18
3. ANTENNA REQUIREMENT	19
3.1 STANDARD APPLICABLE	19
3.2 EVALUATION INFORMATION	19
4. AUTOMATICALLY DISCONTINUE TRANSMISSION	20
4.1 STANDARD APPLICABLE	20
4.2 SUMMARY OF TEST RESULTS	20
5. POWER SPECTRAL DENSITY	21
5.1 STANDARD APPLICABLE	21
5.2 TEST PROCEDURE	21
5.3 SUMMARY OF TEST RESULTS/PLOTS	22
6. EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH	23
6.1 STANDARD APPLICABLE	23
6.2 TEST PROCEDURE	23
6.3 SUMMARY OF TEST RESULTS/PLOTS	25
7. MAXIMUM CONDUCTED OUTPUT POWER	26
7.1 STANDARD APPLICABLE	26
7.2 TEST PROCEDURE	26
7.3 SUMMARY OF TEST RESULTS/PLOTS	27
8. RADIATED SPURIOUS EMISSIONS	28
8.1 STANDARD APPLICABLE	28
8.2 TEST PROCEDURE	28
8.3 TEST RECEIVER SETUP	30
8.4 CORRECTED AMPLITUDE & MARGIN CALCULATION	30
8.5 SUMMARY OF TEST RESULTS/PLOTS	30
9. FREQUENCY STABILITY	136
9.1 STANDARD APPLICABLE	136
9.2 TEST PROCEDURE	136
9.3 SUMMARY OF TEST RESULTS/PLOTS	136
10. CONDUCTED EMISSIONS	137
10.1 TEST PROCEDURE	137
10.2 BASIC TEST SETUP BLOCK DIAGRAM	137
10.3 TEST RECEIVER SETUP	137
10.4 SUMMARY OF TEST RESULTS/PLOTS	137
APPENDIX SUMMARY	140
APPENDIX A	141
APPENDIX B	170
APPENDIX C	223
APPENDIX D	252

APPENDIX PHOTOGRAPHS254

Report version

Version No.	Date of issue	Description
Rev.00	2025-08-29	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Factory 1#:	ANFU CE LINK LIMITED
Address of factory 1#:	Anfu County Industrial Zone, Ji'an city, Jiangxi Province, P.R. China.
Factory 2#:	CE LINK VIET NAM COMPANY LIMITED
Address of factory 2#:	Part of lots CNSG-04, CNSG-06 Van Trung Industrial Zone, Van Trung Ward, Viet Yen Town, Bac Giang Province, Vietnam

General Description of EUT	
Product Name:	Solar Battery Camera
Trade Name:	CE-LINK, 
Model No.:	L5102
Adding Model(s):	L5102-L, L5102-HB, L5102-LHB, GN-CW116-199, GN-CW216-199
Rated Input:	Camera contains 7800mAh battery: DC5V from external power supply DC5V from Solar power supply powered by DC 3.65V Rechargeable Lithium-ion Battery Camera contains 5200mAh battery: DC5V from external power supply DC5V from Solar power supply powered by DC 3.65V Rechargeable Lithium-ion Battery
Rated Current:	Camera contains 7800mAh battery: 1.5A from external power supply 0.3A from Solar power supply Camera contains 5200mAh battery: 1.5A from external power supply 0.3A from Solar power supply
Battery Capacity:	powered by 7800mAh Rechargeable Lithium-ion Battery powered by 5200mAh Rechargeable Lithium-ion Battery
Adapter Model:	Model:NA010050015 Input:AC100-240V 50/60Hz 0.5A Output:DC5.0V 1500mA
Software Version:	V1.0.5
Hardware Version:	L5102_PIR_LED_R1V0_20250609 IPC-14LS_BAT_R1V0_20240421 L5102_MAIN_R1V0_20250606
<i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model L5102, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11a, 802.11n-HT20, 802.11n-HT40, 802.11ac-VHT20/40, 802.11ax-HE20/40,
Frequency Range:	5180-5240MHz, 5260-5320MHz 5500-5700MHz, 5745-5825MHz
Max. RF Output Power:	Band 1: 18.27dBm (Conducted) Band 2: 17.60dBm (Conducted) Band 3: 17.09dBm (Conducted) Band 4: 17.27dBm (Conducted)
Type of Modulation:	BPSK, QPSK, 16QAM, 64QAM
Type of Antenna:	FPC Antenna
Antenna Gain:	Band 1: 2.22dBi, Band 2: 4.08dBi, Band 3: 4.78dBi, Band 4: 4.16dBi,
<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:

47 CFR FCC Part 15.407, subpart E: General technical requirements.

ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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

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 C63.10-2020, 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

Run commands and follow the instructions given by the manufacturer, you can start to test. During testing, Channel and Power Controlling commands 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, and to measure its highest possible emissions level, more detailed description as follows:

Mode	Test Frequency (MHz)												
	NCB: 20MHz												
	5180	5200	5240	5260	5280	5320	5500	5580	5700	5720	5745	5785	5825
802.11a 6Mbps	18	18	17	17	17	17	17	17	17	17	17	17	17
802.11n-HT20 MCS0	16	15	14	15	15	15	15	15	15	15	15	15	15
802.11ac-VHT20 MCS0	16	15	14	15	15	15	15	15	15	15	15	15	15
802.11ax-HE20 MCS0	15	14	12	14	14	14	13	13	13	14	14	14	14
Mode	NCB: 40MHz												
	5190	5230	5270	5310	5510	5550	5670	5710	5755	5795			
802.11n-HT40 MCS0	15	14	15	15	15	15	15	15	15	15	15		
802.11ac-VHT4	15	14	15	15	15	15	15	15	15	15	15		

0 MCS0										
802.11ax-HE40 MCS0	14	13	13	13	13	13	13	13	13	13

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, Block 70 Bao'an District, Shenzhen, Guangdong, China

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,5580MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM2	802.11n-HT20	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz,5580MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM3	802.11ac-VHT20	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz,5580MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM4	802.11ax-HE20	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz,5580MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM5	802.11n-HT40	5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5550MHz,5670MHz,5755MHz,5795MHz
TM6	802.11ac-VHT40	5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5550MHz,5670MHz,5755MHz,5795MHz
TM7	802.11ax-HE40	5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5550MHz,5670MHz,5755MHz,5795MHz

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~75 %
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
DC Cable	1.0	Unshielded	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
iPhone	Apple	MGC33CH/A	/
TF Card	Sandisk	/	/
WiFi Router	TP-LINK	TL-WR842N	/

1.8 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	0.57dB
Occupied Bandwidth	Conducted	0.015MHz
Power Spectral Density	Conducted	1.8dB
Conducted Spurious Emission	Conducted	2.17dB
Conducted Emissions	Conducted	9-150kHz, 3.74dB
		0.15-30MHz, 3.34dB
Transmitter Spurious Emissions	Radiated	30-200MHz, 4.52dB
		0.2-1GHz 5.56dB
		1-6GHz, 3.84dB
		6-18GHz, 3.92dB

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	2025-02-23	2026-02-22
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2025-02-23	2026-02-22
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2025-02-23	2026-02-22
WTXE1004A 1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2025-02-23	2026-02-22
WTXE1103A 1003	Attenuator	Pasternack	PE4007-4	/	2025-02-23	2026-02-22
WTXE1003A 1-005	Coaxial Cable	/	0M4RFC	/	2025-02-23	2026-02-22
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2025-02-23	2026-02-22
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2025-02-23	2026-02-22
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2025-02-23	2026-02-22
WTXE1104A 1032-1	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1032-2	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1032-3	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2025-02-23	2026-02-22
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
WTXE1065A 1001	Amplifier	C&D	PAP-1.0G18	14918	2025-02-23	2026-02-22
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2025-02-23	2026-02-22

WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
WTXE1104A 1033-1	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
WTXE1104A 1033-2	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
WTXE1104A 1033-3	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2025-02-23	2026-02-22
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2025-02-23	2026-02-22
WTXE1104A 1031-1	Coaxial Cable	/	1.5MRFC-LWB3	/	2025-02-23	2026-02-22
WTXE1104A 1031-2	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
WTXE1104A 1031-3	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2025-02-23	2026-02-22
WTXE1104A 1034-1	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1034-2	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1034-3	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
☒ Chamber C: Above 1GHz						
WTXE1093A	EMI Test	Rohde &	ESIB 26	100401	2025-02-23	2026-02-22

1001	Receiver	Schwarz				
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2025-06-13	2027-06-12
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2025-02-23	2026-02-22
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
WTXE1104A 1035-1	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1035-2	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1035-3	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
☐ Conducted Room 1#						
WTXE1104A 1029	EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2024-12-08	2025-12-07
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2025-02-23	2026-02-22
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2025-02-23	2026-02-22
WTXE1104A 1036	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
WTXE1104A 1038	Coaxial Cable	/	6MRFC-DP	/	2025-02-23	2026-02-22
☒ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2025-02-23	2026-02-22
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2025-02-23	2026-02-22
WTXE1104A 1037	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission A)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission B)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission C)	Farad	EZ-EMC	RA-03A1-2 (1.1.4.2)
EMI Test Software (Conducted Emission Room 1#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3
EMI Test Software (Conducted Emission Room 2#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3

*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; §15.209; §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 an FPC antenna, 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 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.

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 1 MHz RBW to satisfy directly the 1 MHz 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 1 MHz, 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 1 MHz, 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 6 dBi. 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 6 dB emission bandwidth of at least 500KHz for the band 5.715-5.85 GHz. 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 6dB 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.: WTX25X08219143W001

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 6 dBi. 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 colocated 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 ≥ 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 1MHz 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 75MHz 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.

789033 D02 v02r01 General UNII Test Procedures New Rules v01

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

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

where:

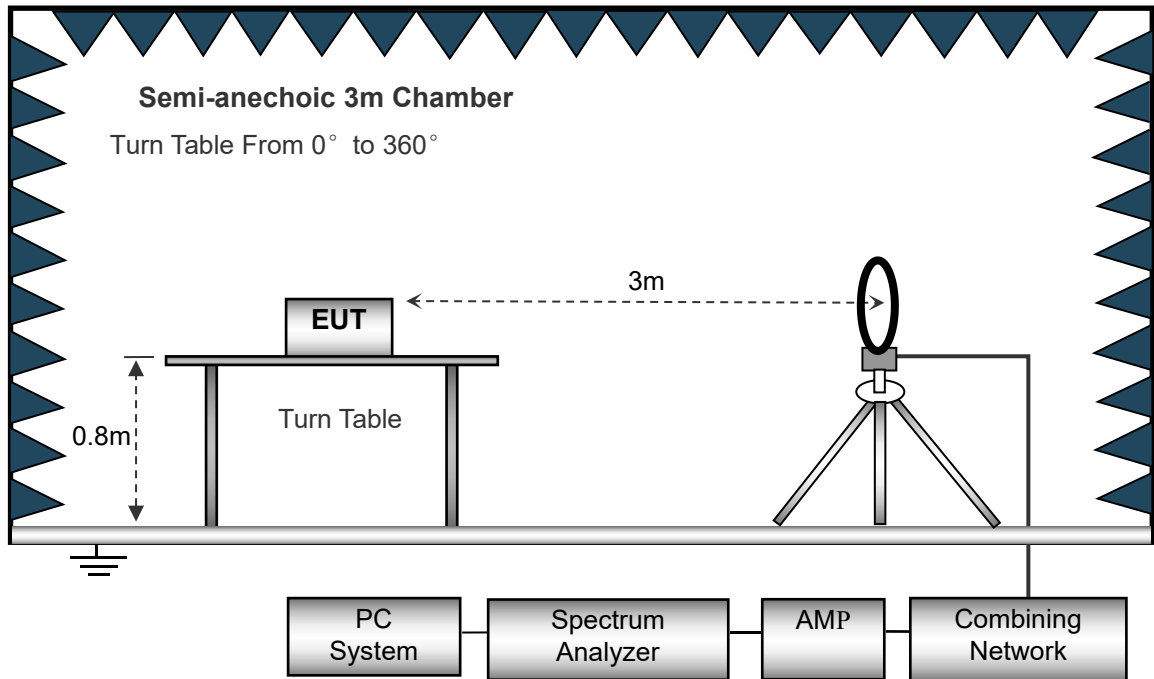
- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

8.2 Test Procedure

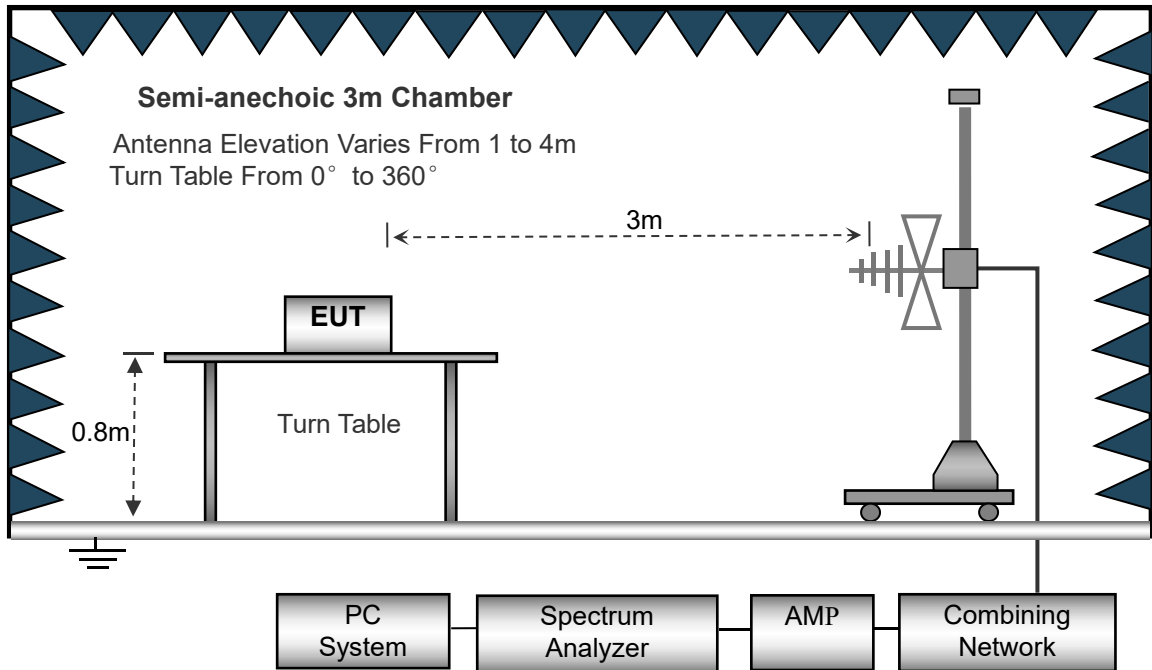
The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

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.

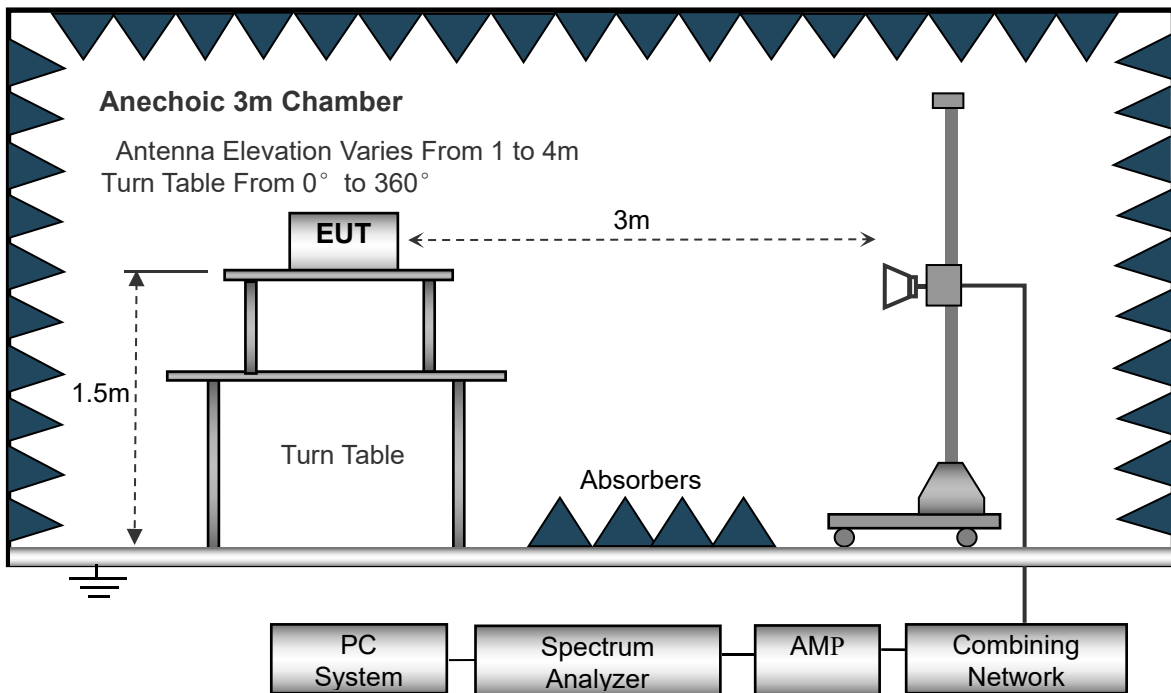
The test setup for emission measurement below 30MHz.



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



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 -6dB μ V means the emission is 6dB μ V below the maximum limit for Class B. The equation for margin calculation is as follows:

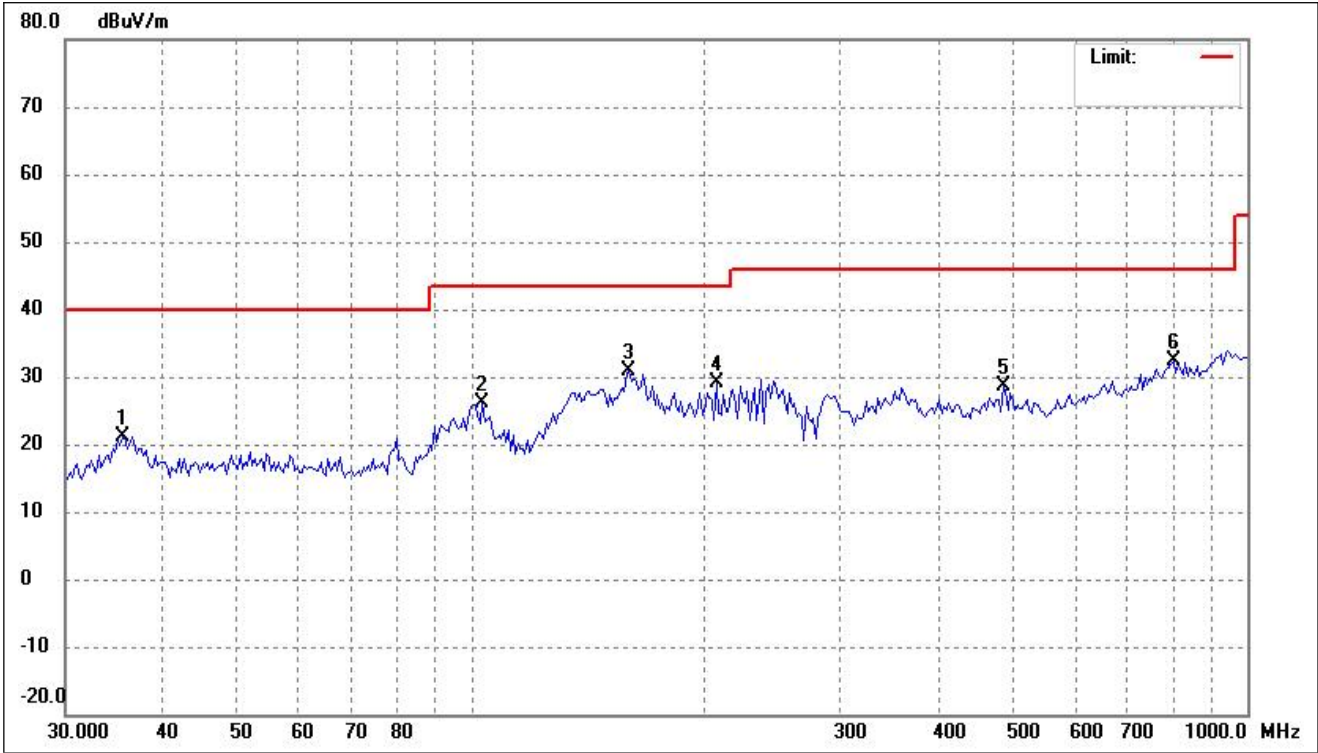
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

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
- 5150-5250MHz

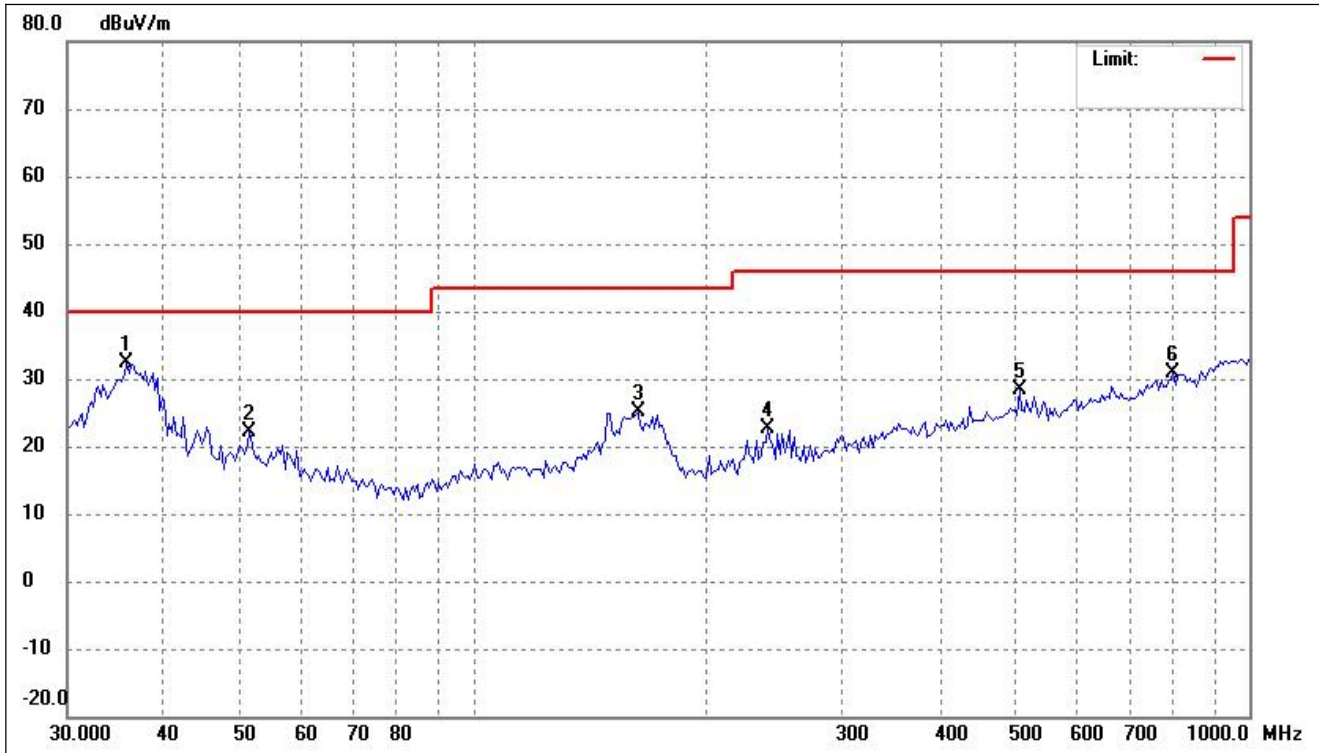
802.11a			
Test Channel	5180MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.5112	31.35	-10.18	21.17	40.00	-18.83	-	-	peak
2	103.3353	39.16	-13.00	26.16	43.50	-17.34	-	-	peak
3	159.7586	39.29	-8.53	30.76	43.50	-12.74	-	-	peak
4	207.1968	40.92	-11.73	29.19	43.50	-14.31	-	-	peak
5	484.9068	33.27	-4.66	28.61	46.00	-17.39	-	-	peak
6	804.2523	31.44	1.01	32.45	46.00	-13.55	-	-	peak

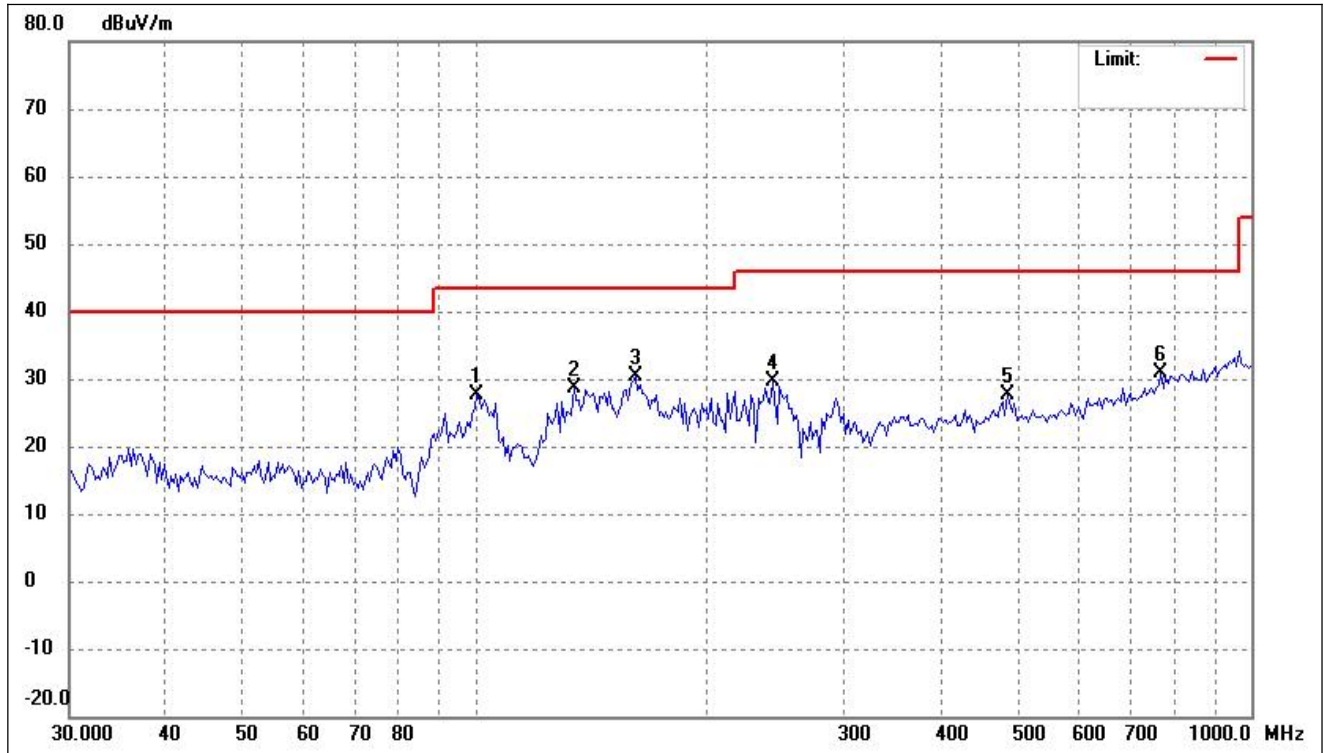
802.11a

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



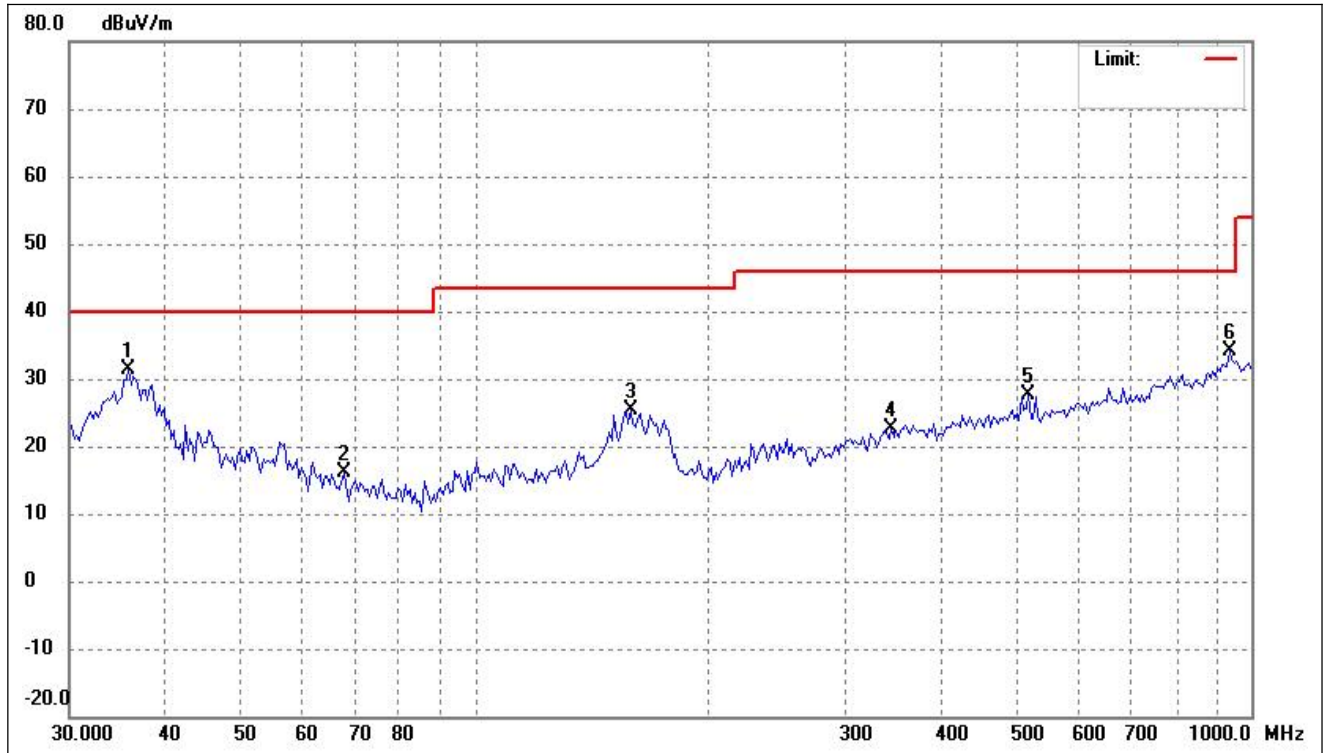
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.7617	42.43	-10.13	32.30	40.00	-7.70	-	-	peak
2	51.5365	31.03	-8.99	22.04	40.00	-17.96	-	-	peak
3	163.1623	33.72	-8.58	25.14	43.50	-18.36	-	-	peak
4	240.1442	32.65	-9.98	22.67	46.00	-23.33	-	-	peak
5	505.7891	32.60	-4.23	28.37	46.00	-17.63	-	-	peak
6	798.6205	29.98	0.99	30.97	46.00	-15.03	-	-	peak

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



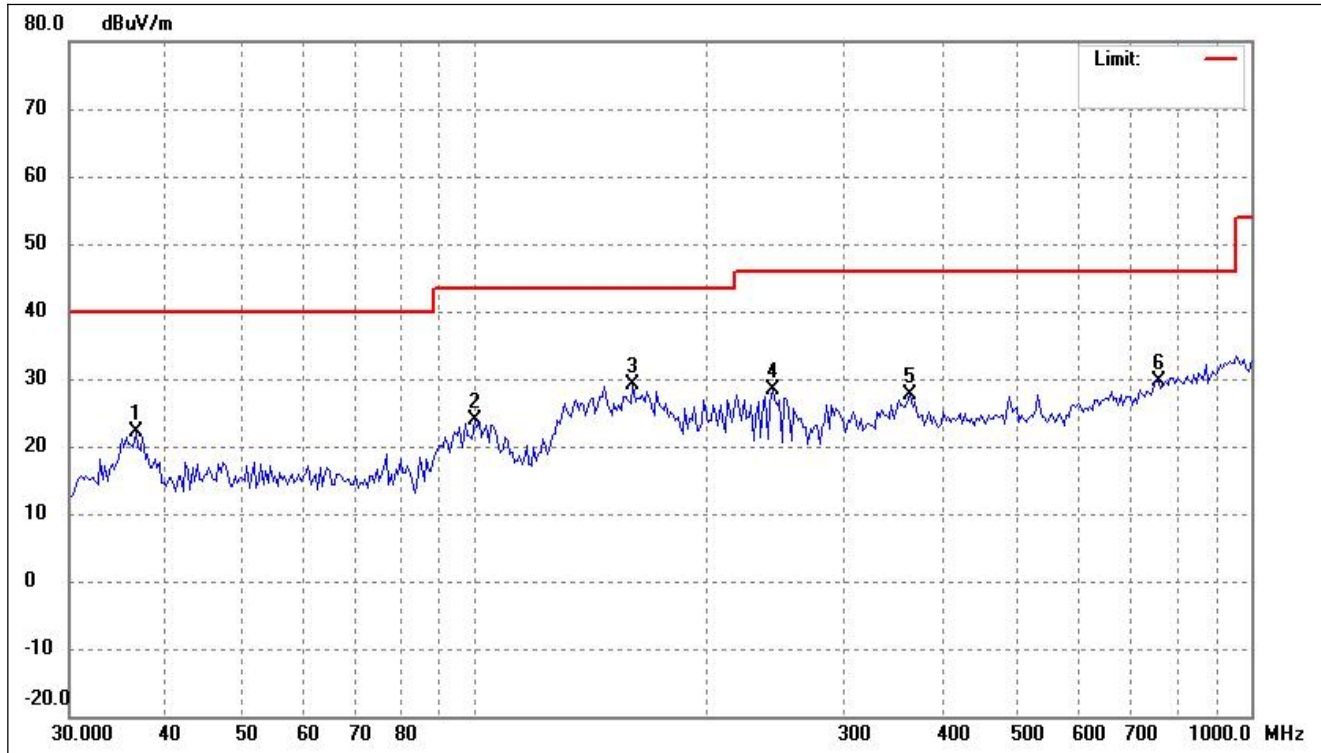
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	100.4712	41.17	-13.50	27.67	43.50	-15.83	-	-	peak
2	134.0194	38.41	-9.74	28.67	43.50	-14.83	-	-	peak
3	160.8852	38.90	-8.51	30.39	43.50	-13.11	-	-	peak
4	241.8377	39.64	-9.91	29.73	46.00	-16.27	-	-	peak
5	484.9068	32.37	-4.66	27.71	46.00	-18.29	-	-	peak
6	765.6482	30.32	0.45	30.77	46.00	-15.23	-	-	peak

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



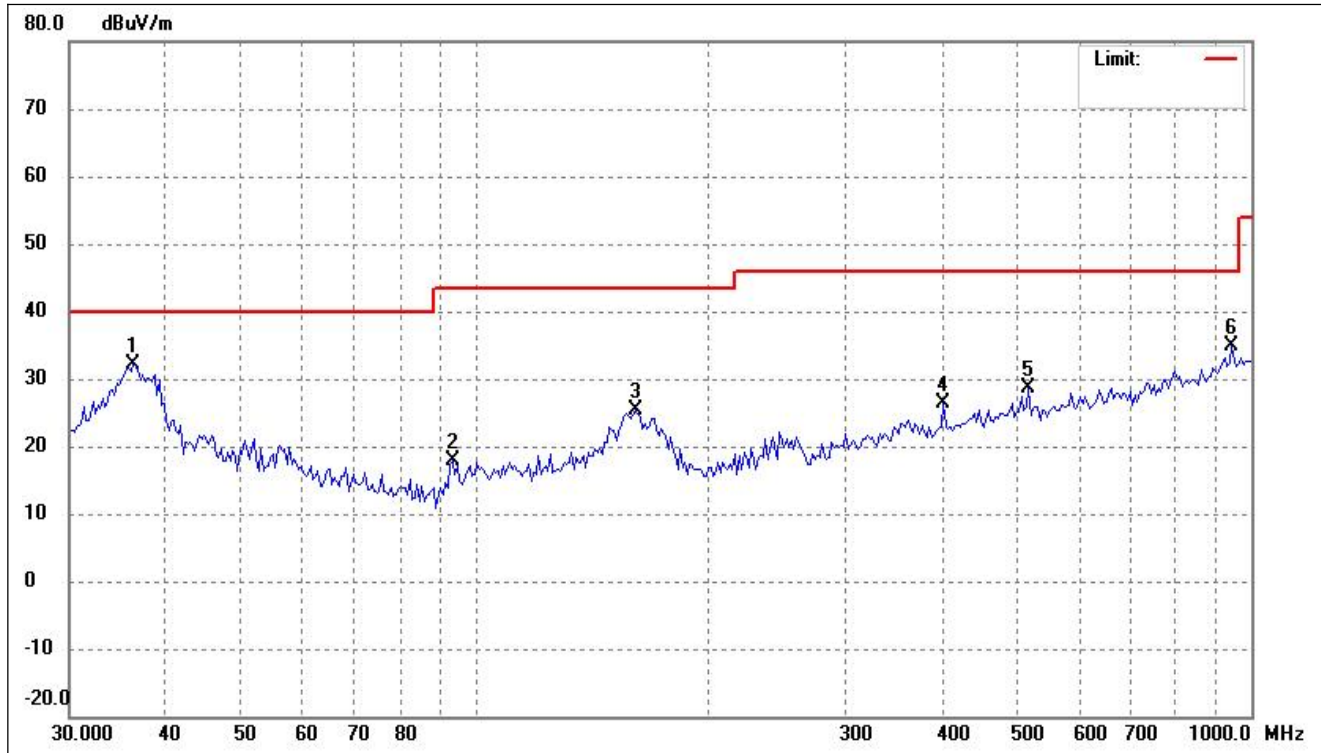
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.7617	41.45	-10.13	31.32	40.00	-8.68	-	-	peak
2	67.7856	26.83	-10.70	16.13	40.00	-23.87	-	-	peak
3	158.6399	33.91	-8.56	25.35	43.50	-18.15	-	-	peak
4	343.6506	29.68	-7.09	22.59	46.00	-23.41	-	-	peak
5	516.5651	31.70	-4.01	27.69	46.00	-18.31	-	-	peak
6	938.7139	31.36	2.72	34.08	46.00	-11.92	-	-	peak

802.11ac-VHT20			
Test Channel	5180MHz(worst case)	Polarity:	Horizontal



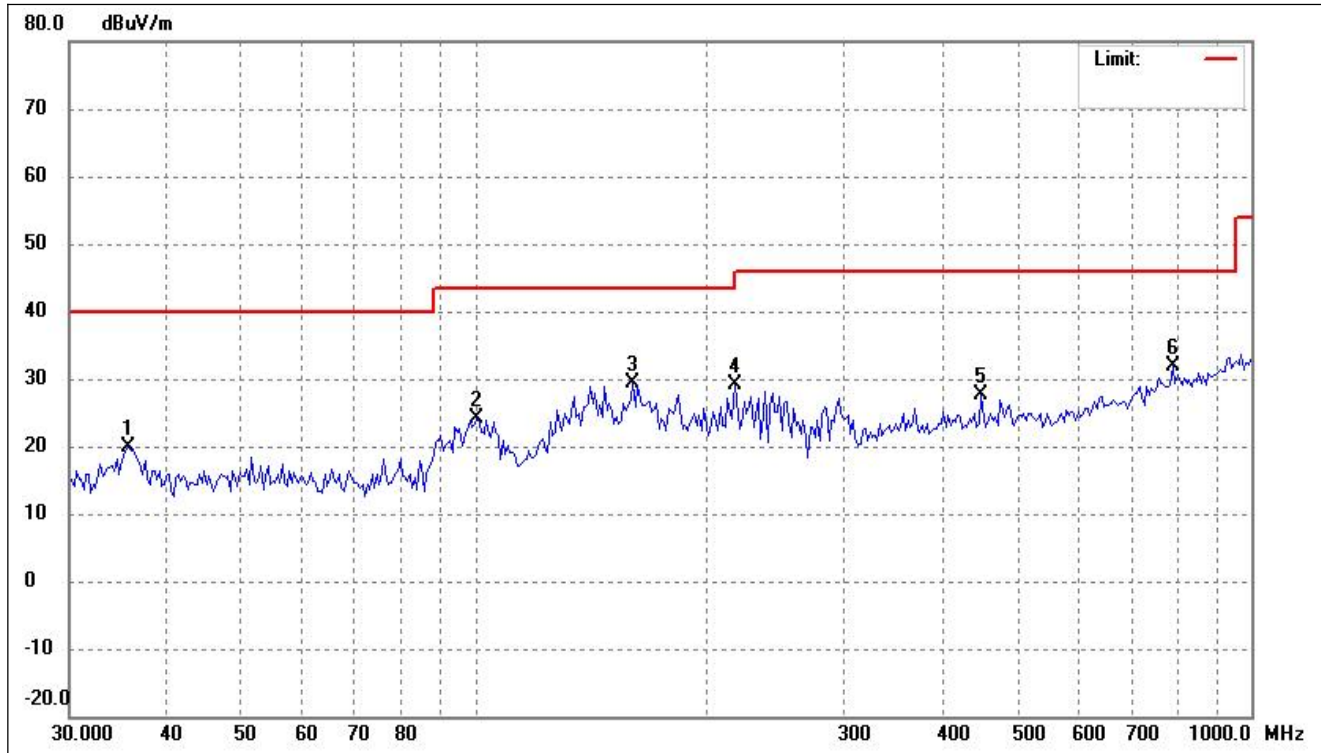
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.5236	32.14	-10.01	22.13	40.00	-17.87	-	-	peak
2	99.7676	37.56	-13.62	23.94	43.50	-19.56	-	-	peak
3	159.7586	37.65	-8.53	29.12	43.50	-14.38	-	-	peak
4	241.8377	38.30	-9.91	28.39	46.00	-17.61	-	-	peak
5	363.5231	34.42	-6.79	27.63	46.00	-18.37	-	-	peak
6	754.9628	29.24	0.28	29.52	46.00	-16.48	-	-	peak

802.11ac-VHT20			
Test Channel	5180MHz(worst case)	Polarity:	Vertical



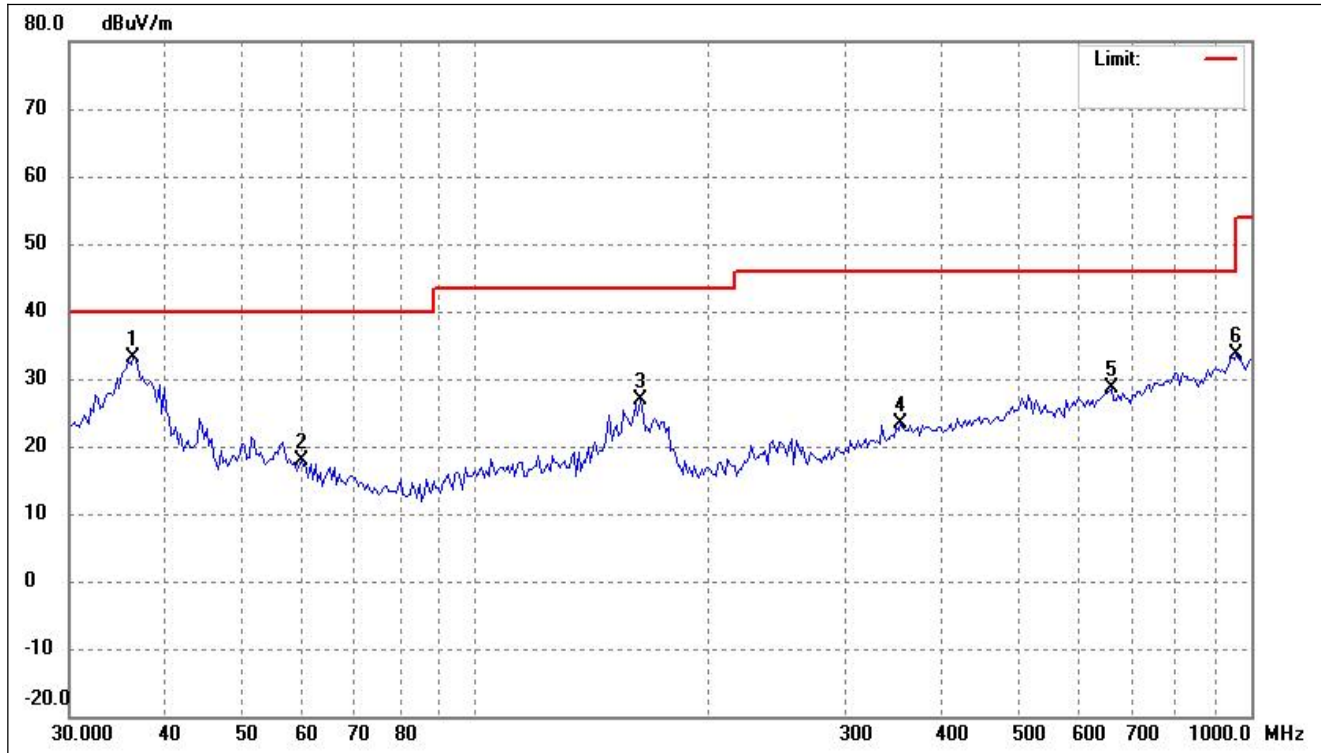
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.2678	42.29	-10.05	32.24	40.00	-7.76	-	-	peak
2	93.6532	32.38	-14.40	17.98	43.50	-25.52	-	-	peak
3	160.8852	33.98	-8.51	25.47	43.50	-18.03	-	-	peak
4	401.1050	32.37	-6.08	26.29	46.00	-19.71	-	-	peak
5	516.5651	32.70	-4.01	28.69	46.00	-17.31	-	-	peak
6	945.3336	31.93	2.85	34.78	46.00	-11.22	-	-	peak

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.7617	29.94	-10.13	19.81	40.00	-20.19	-	-	peak
2	100.4712	37.68	-13.50	24.18	43.50	-19.32	-	-	peak
3	159.7586	37.83	-8.53	29.30	43.50	-14.20	-	-	peak
4	216.1197	40.83	-11.66	29.17	46.00	-16.83	-	-	peak
5	448.8361	32.71	-5.00	27.71	46.00	-18.29	-	-	peak
6	793.0281	30.87	0.89	31.76	46.00	-14.24	-	-	peak

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



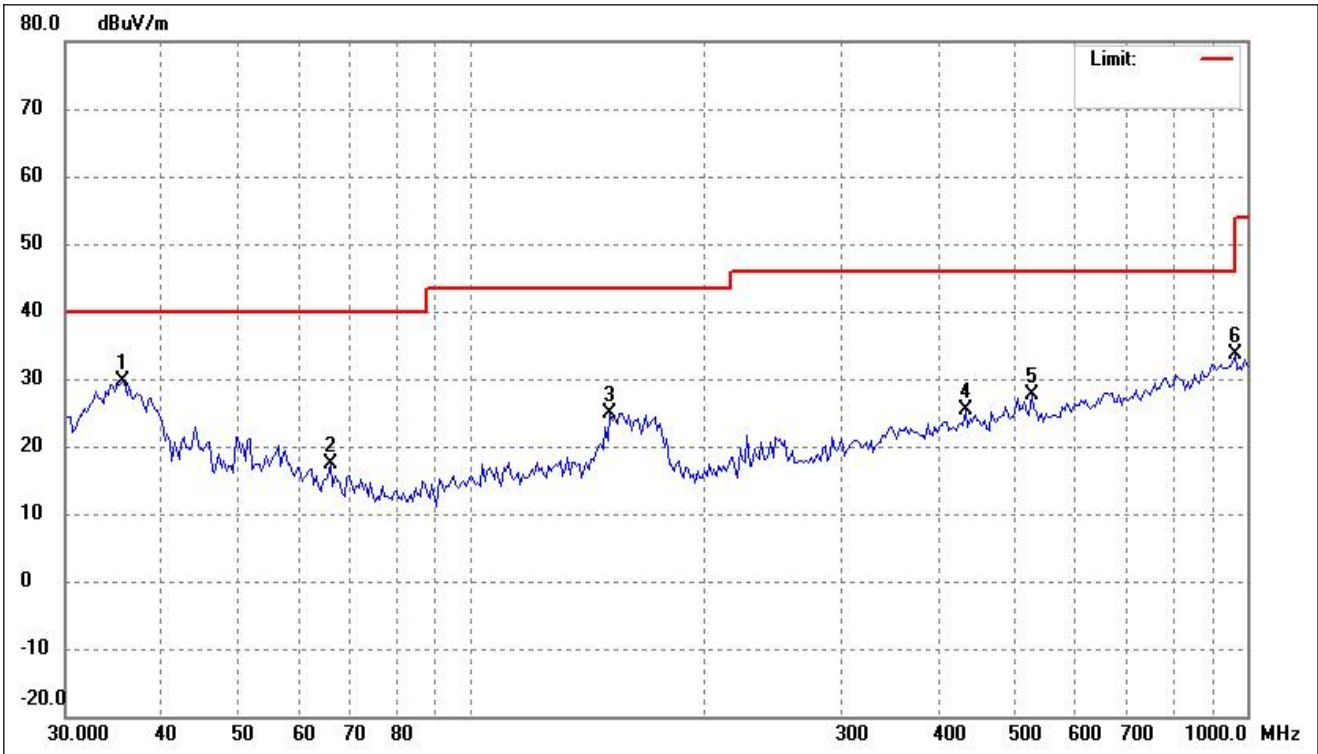
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.2678	43.18	-10.05	33.13	40.00	-6.87	-	-	peak
2	59.7315	27.32	-9.53	17.79	40.00	-22.21	-	-	peak
3	163.1623	35.38	-8.58	26.80	43.50	-16.70	-	-	peak
4	353.4471	30.25	-6.97	23.28	46.00	-22.72	-	-	peak
5	660.6025	29.82	-1.26	28.56	46.00	-17.44	-	-	peak
6	958.7135	30.77	2.97	33.74	46.00	-12.26	-	-	peak

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



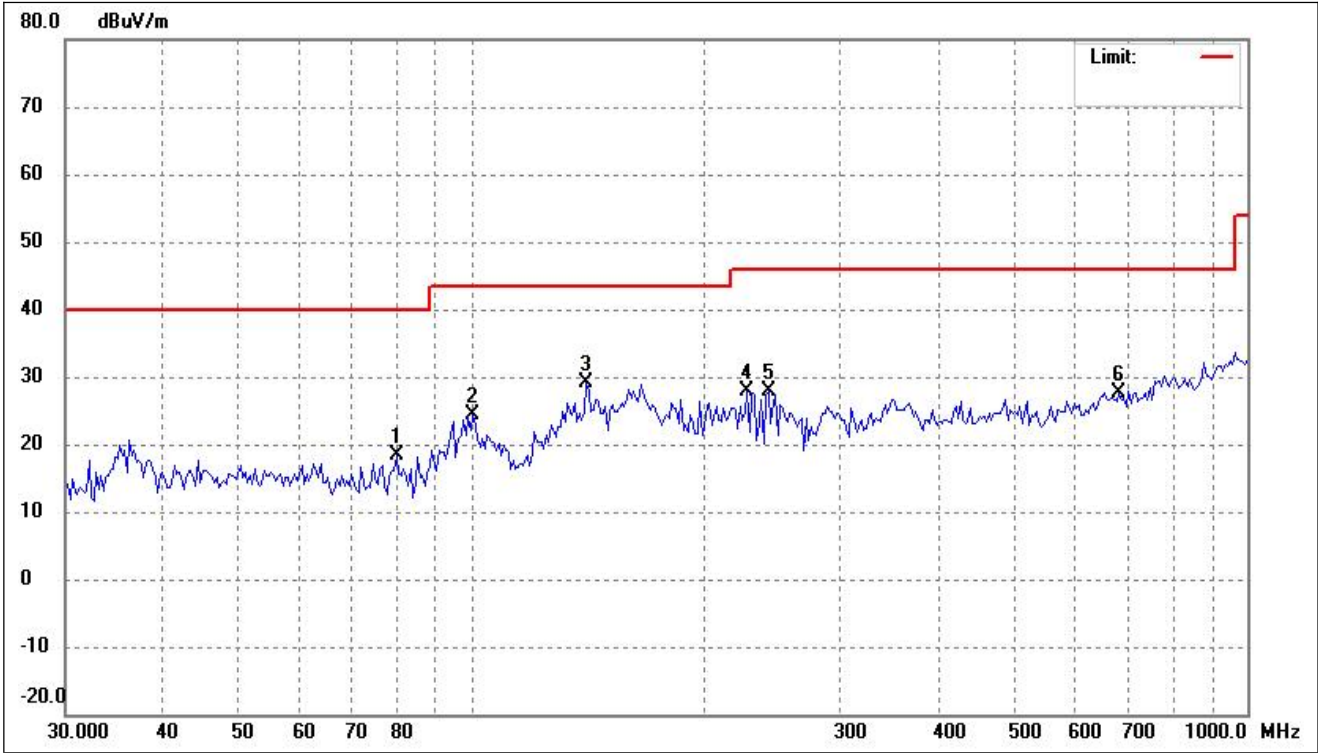
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.5112	29.71	-10.18	19.53	40.00	-20.47	-	-	peak
2	100.4712	41.55	-13.50	28.05	43.50	-15.45	-	-	peak
3	166.6385	38.77	-8.75	30.02	43.50	-13.48	-	-	peak
4	246.9901	38.06	-9.71	28.35	46.00	-17.65	-	-	peak
5	478.1394	33.16	-4.79	28.37	46.00	-17.63	-	-	peak
6	952.0001	30.61	2.95	33.56	46.00	-12.44	-	-	peak

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



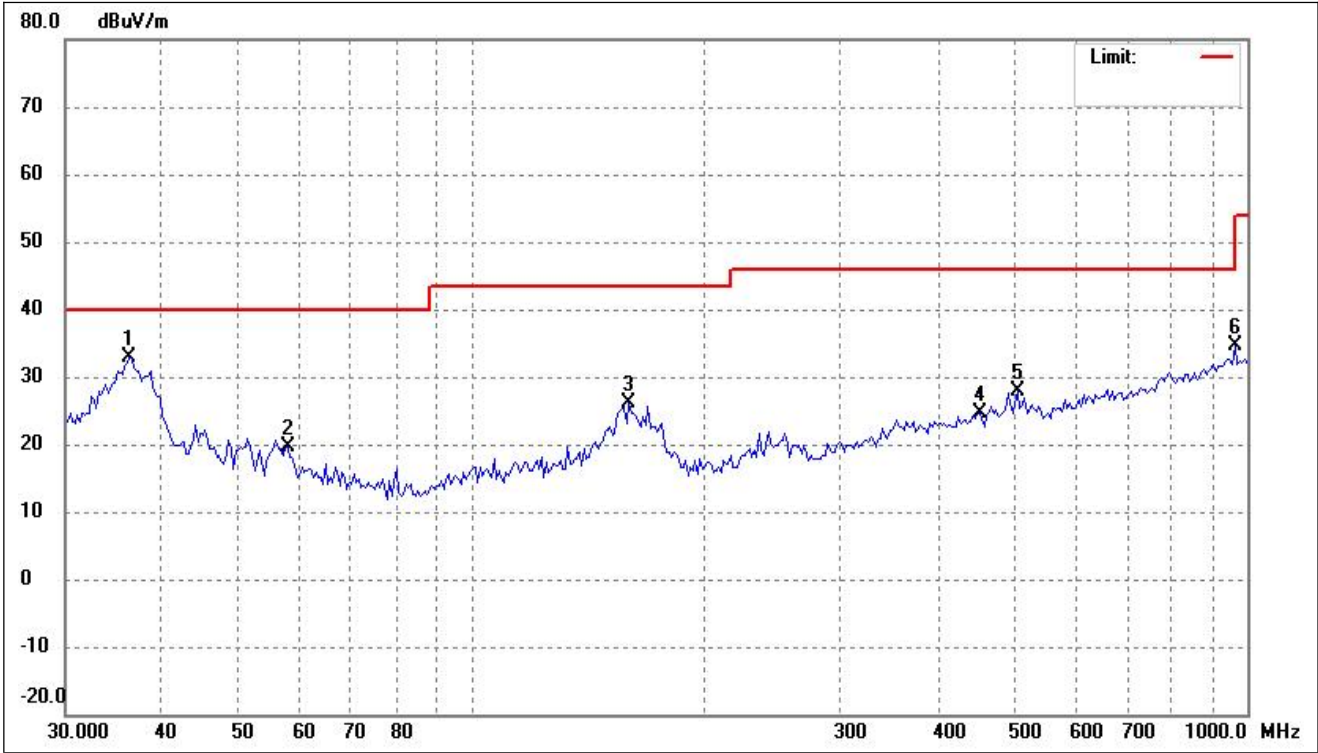
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.5112	39.91	-10.18	29.73	40.00	-10.27	-	-	peak
2	65.9067	27.60	-10.34	17.26	40.00	-22.74	-	-	peak
3	151.0252	33.90	-8.90	25.00	43.50	-18.50	-	-	peak
4	433.3397	30.93	-5.51	25.42	46.00	-20.58	-	-	peak
5	527.5707	31.38	-3.81	27.57	46.00	-18.43	-	-	peak
6	965.4742	30.62	2.98	33.60	54.00	-20.40	-	-	peak

802.11ac-VHT40			
Test Channel	5190MHz(worst case)	Polarity:	Horizontal



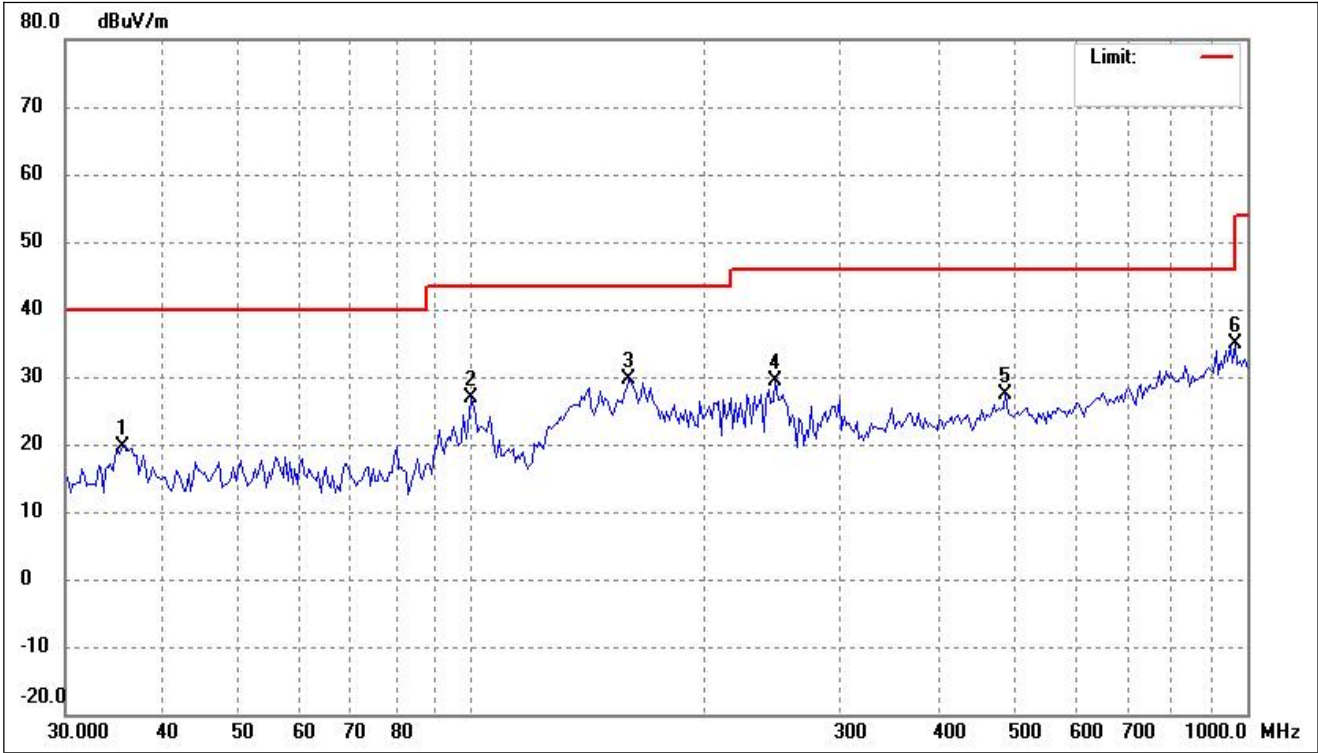
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	80.2383	31.42	-13.08	18.34	40.00	-21.66	-	-	peak
2	100.4712	38.00	-13.50	24.50	43.50	-19.00	-	-	peak
3	140.7767	38.33	-9.32	29.01	43.50	-14.49	-	-	peak
4	227.0164	39.03	-11.13	27.90	46.00	-18.10	-	-	peak
5	241.8377	37.79	-9.91	27.88	46.00	-18.12	-	-	peak
6	684.2259	28.79	-1.07	27.72	46.00	-18.28	-	-	peak

802.11ac-VHT40			
Test Channel	5190MHz(worst case)	Polarity:	Vertical



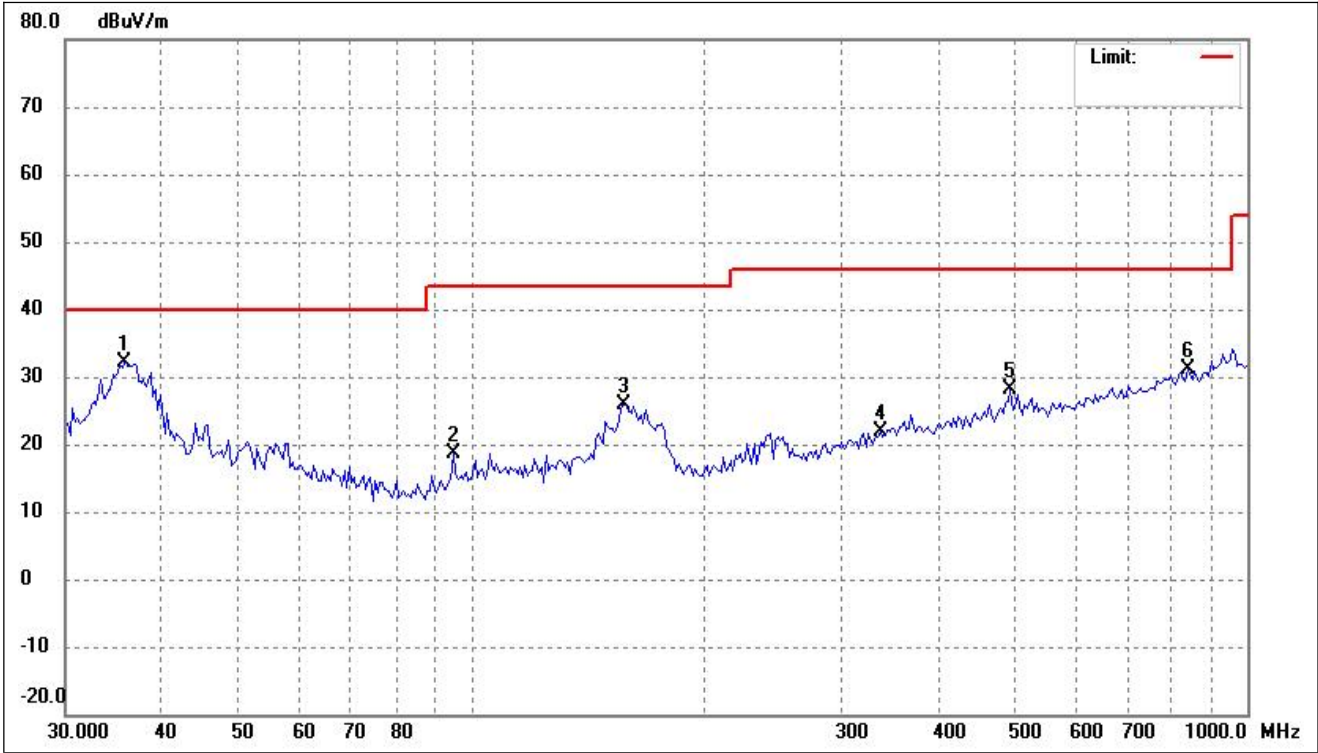
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.2678	42.83	-10.05	32.78	40.00	-7.22	-	-	peak
2	58.0759	29.07	-9.39	19.68	40.00	-20.32	-	-	peak
3	159.7586	34.68	-8.53	26.15	43.50	-17.35	-	-	peak
4	452.0013	29.67	-4.96	24.71	46.00	-21.29	-	-	peak
5	505.7891	32.06	-4.23	27.83	46.00	-18.17	-	-	peak
6	965.4742	31.75	2.98	34.73	54.00	-19.27	-	-	peak

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.5112	29.89	-10.18	19.71	40.00	-20.29	-	-	peak
2	99.7676	40.52	-13.62	26.90	43.50	-16.60	-	-	peak
3	159.7586	38.21	-8.53	29.68	43.50	-13.82	-	-	peak
4	246.9901	38.97	-9.71	29.26	46.00	-16.74	-	-	peak
5	488.3263	32.00	-4.59	27.41	46.00	-18.59	-	-	peak
6	965.4742	31.79	2.98	34.77	54.00	-19.23	-	-	peak

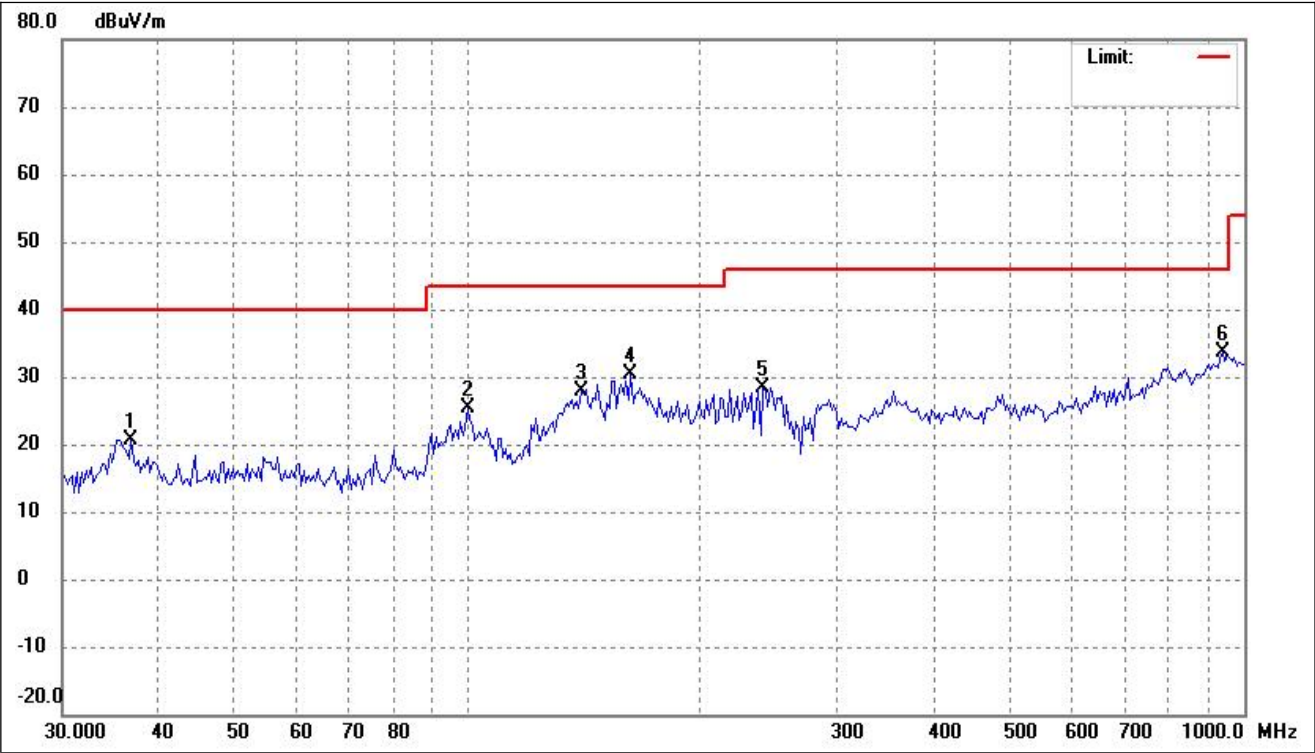
802.11ax-HE40			
Test Channel	5190MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.7617	42.23	-10.13	32.10	40.00	-7.90	-	-	peak
2	94.9788	32.93	-14.28	18.65	43.50	-24.85	-	-	peak
3	157.5290	34.45	-8.57	25.88	43.50	-17.62	-	-	peak
4	336.4817	28.99	-7.10	21.89	46.00	-24.11	-	-	peak
5	495.2379	32.56	-4.45	28.11	46.00	-17.89	-	-	peak
6	838.8870	30.28	0.97	31.25	46.00	-14.75	-	-	peak

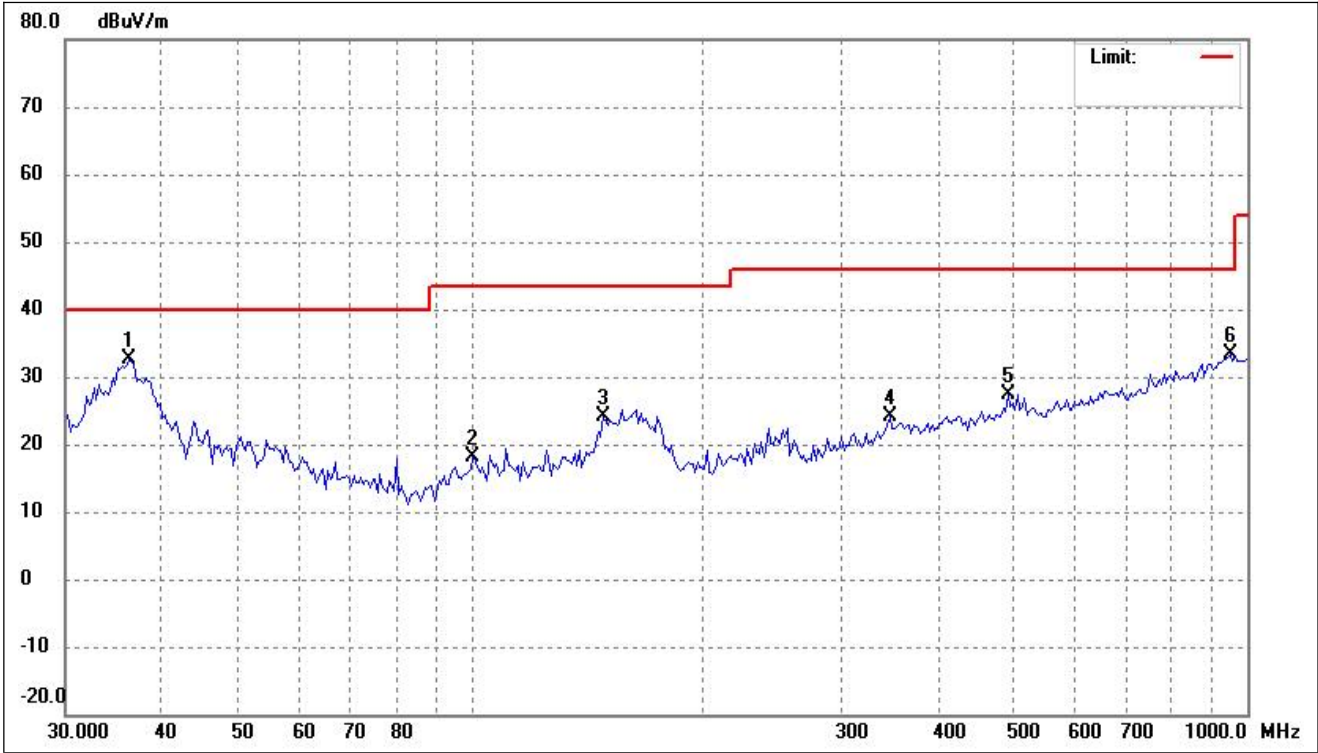
➤ 5250-5350MHz

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



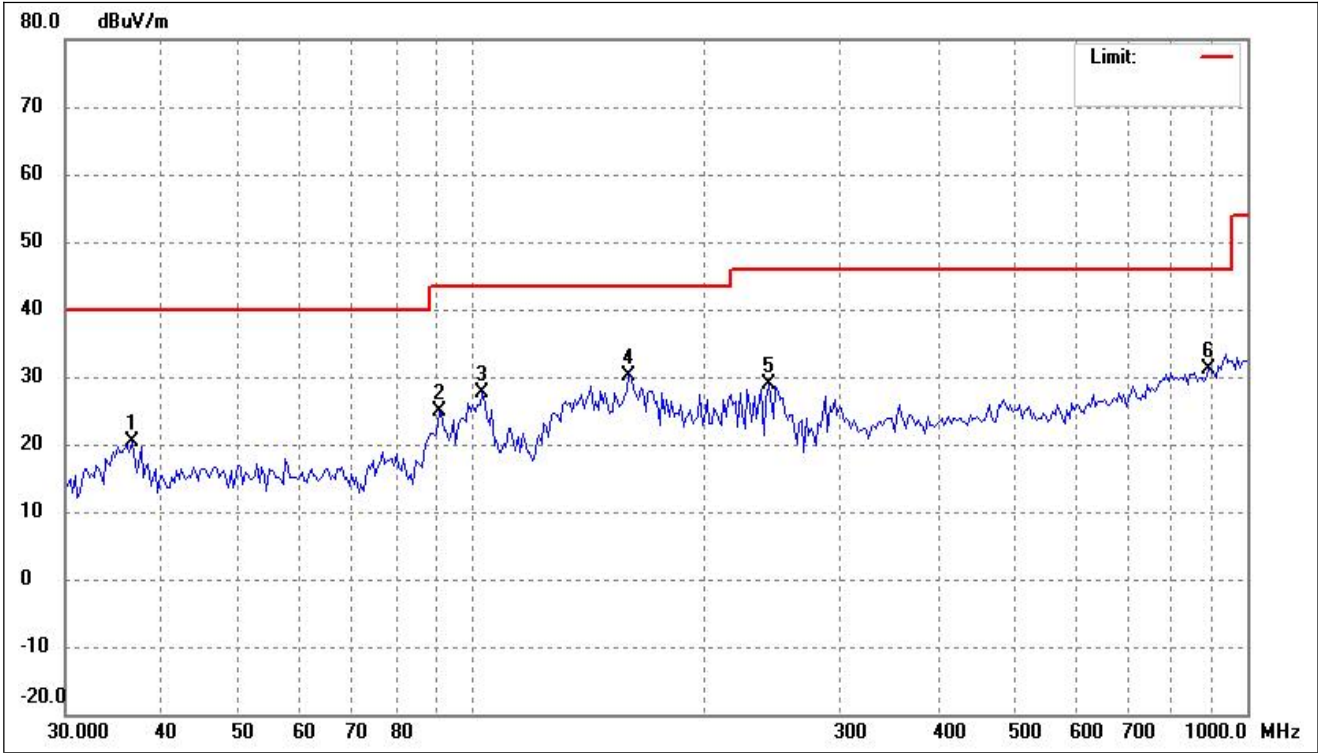
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.7811	30.72	-9.97	20.75	40.00	-19.25	-	-	peak
2	99.7676	38.88	-13.62	25.26	43.50	-18.24	-	-	peak
3	139.7909	37.32	-9.40	27.92	43.50	-15.58	-	-	peak
4	162.0197	38.91	-8.53	30.38	43.50	-13.12	-	-	peak
5	240.1442	38.30	-9.98	28.32	46.00	-17.68	-	-	peak
6	938.7139	31.02	2.72	33.74	46.00	-12.26	-	-	peak

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



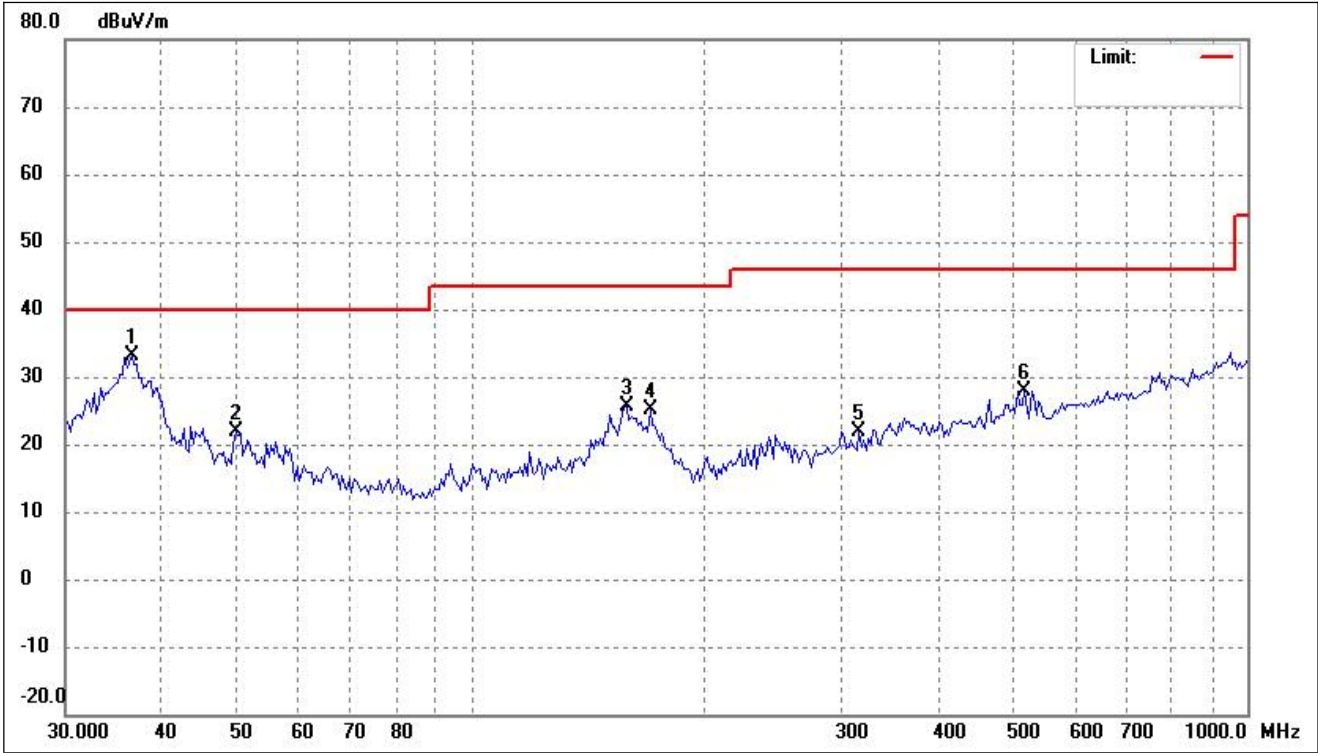
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.2678	42.73	-10.05	32.68	40.00	-7.32	-	-	peak
2	100.4712	31.56	-13.50	18.06	43.50	-25.44	-	-	peak
3	147.8747	33.21	-8.97	24.24	43.50	-19.26	-	-	peak
4	346.0740	31.18	-7.05	24.13	46.00	-21.87	-	-	peak
5	491.7700	31.99	-4.52	27.47	46.00	-18.53	-	-	peak
6	952.0001	30.50	2.95	33.45	46.00	-12.55	-	-	peak

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



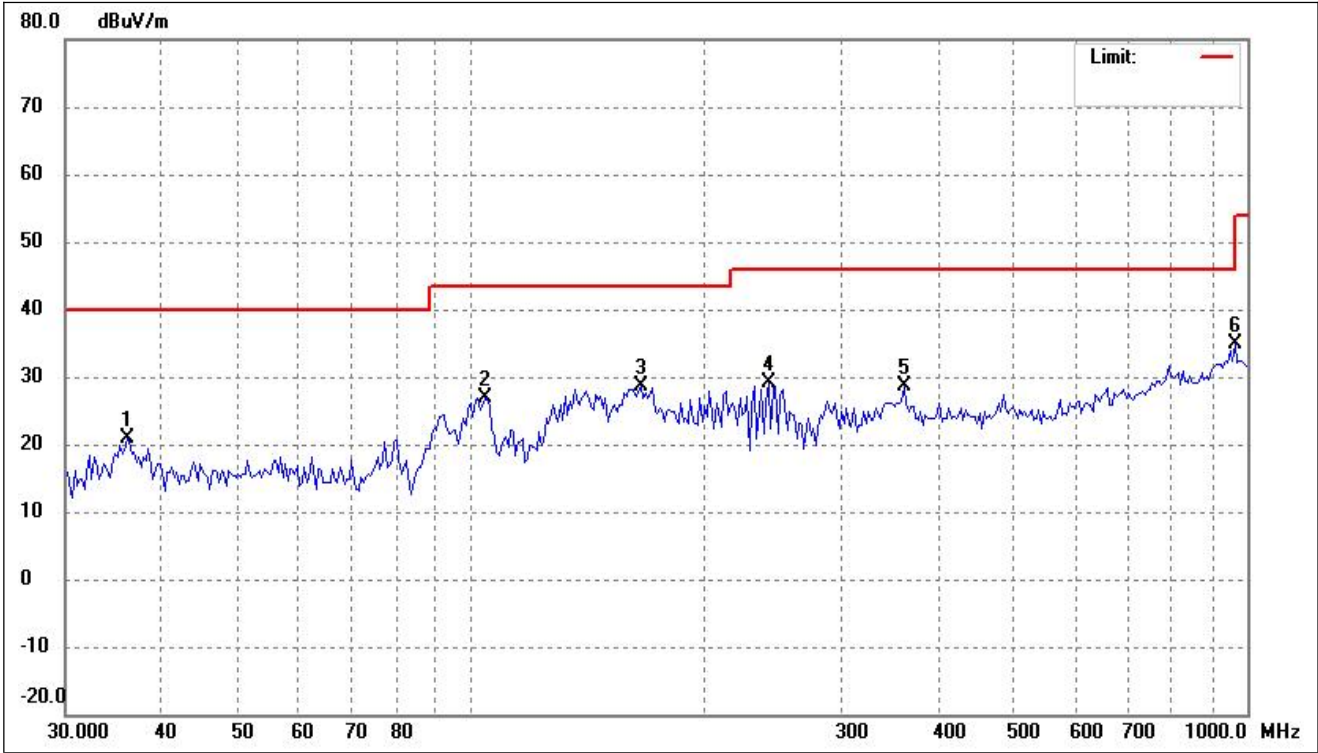
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.5236	30.30	-10.01	20.29	40.00	-19.71	-	-	peak
2	91.0574	39.39	-14.44	24.95	43.50	-18.55	-	-	peak
3	103.3353	40.57	-13.00	27.57	43.50	-15.93	-	-	peak
4	159.7586	38.77	-8.53	30.24	43.50	-13.26	-	-	peak
5	241.8377	38.67	-9.91	28.76	46.00	-17.24	-	-	peak
6	893.6557	29.32	1.84	31.16	46.00	-14.84	-	-	peak

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



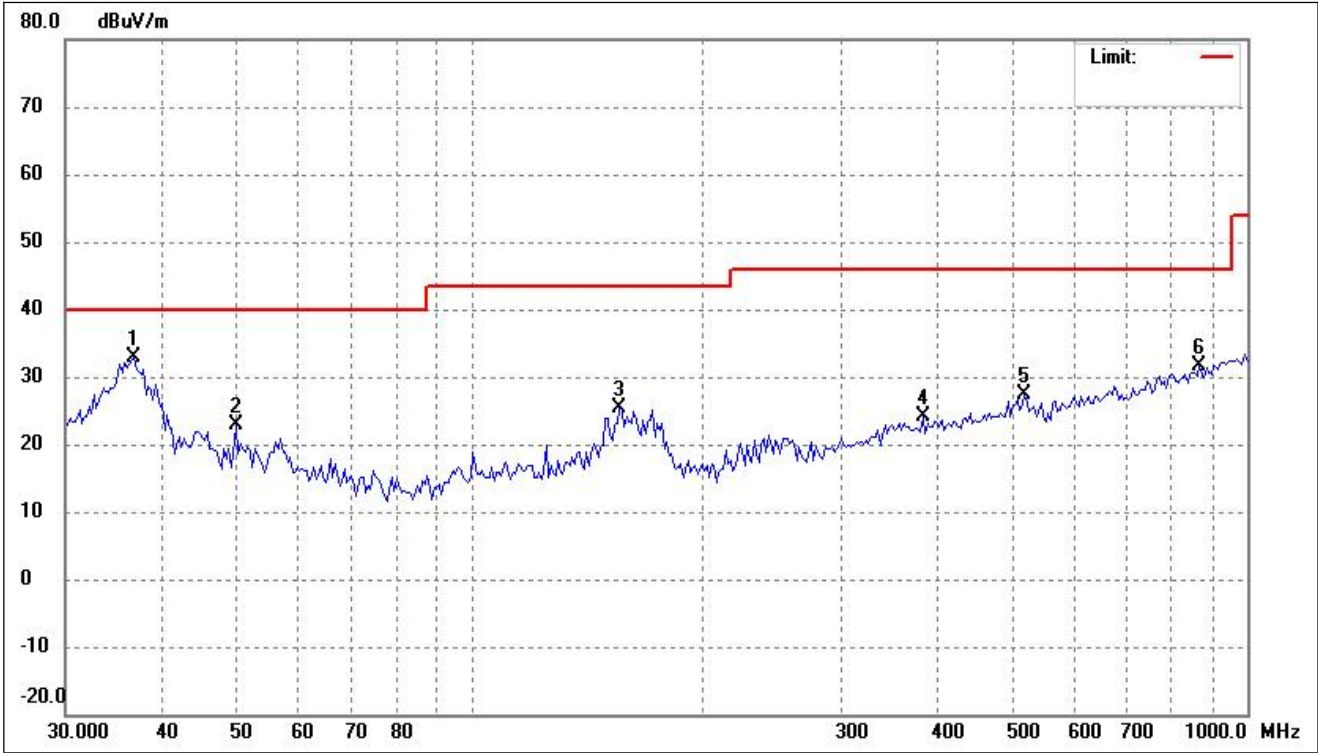
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.5236	43.02	-10.01	33.01	40.00	-6.99	-	-	peak
2	49.7571	30.76	-8.98	21.78	40.00	-18.22	-	-	peak
3	158.6399	34.14	-8.56	25.58	43.50	-17.92	-	-	peak
4	170.1888	33.97	-8.87	25.10	43.50	-18.40	-	-	peak
5	315.8601	29.28	-7.37	21.91	46.00	-24.09	-	-	peak
6	516.5651	31.91	-4.01	27.90	46.00	-18.10	-	-	peak

802.11ac-VHT20			
Test Channel	5260MHz(worst case)	Polarity:	Horizontal



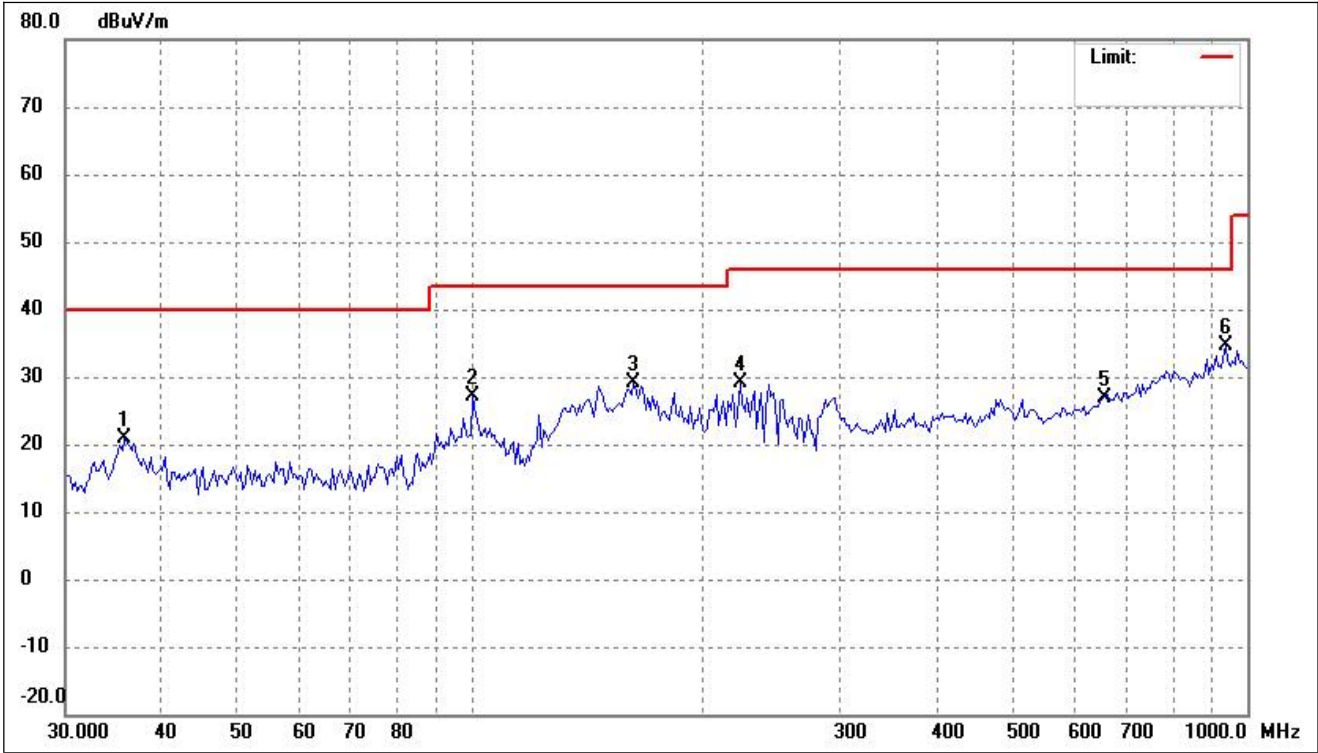
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.0139	30.86	-10.10	20.76	40.00	-19.24	-	-	peak
2	104.0640	39.87	-12.88	26.99	43.50	-16.51	-	-	peak
3	165.4716	37.40	-8.71	28.69	43.50	-14.81	-	-	peak
4	241.8377	39.07	-9.91	29.16	46.00	-16.84	-	-	peak
5	360.9775	35.51	-6.84	28.67	46.00	-17.33	-	-	peak
6	965.4742	31.78	2.98	34.76	54.00	-19.24	-	-	peak

802.11ac-VHT20			
Test Channel	5260MHz(worst case)	Polarity:	Vertical



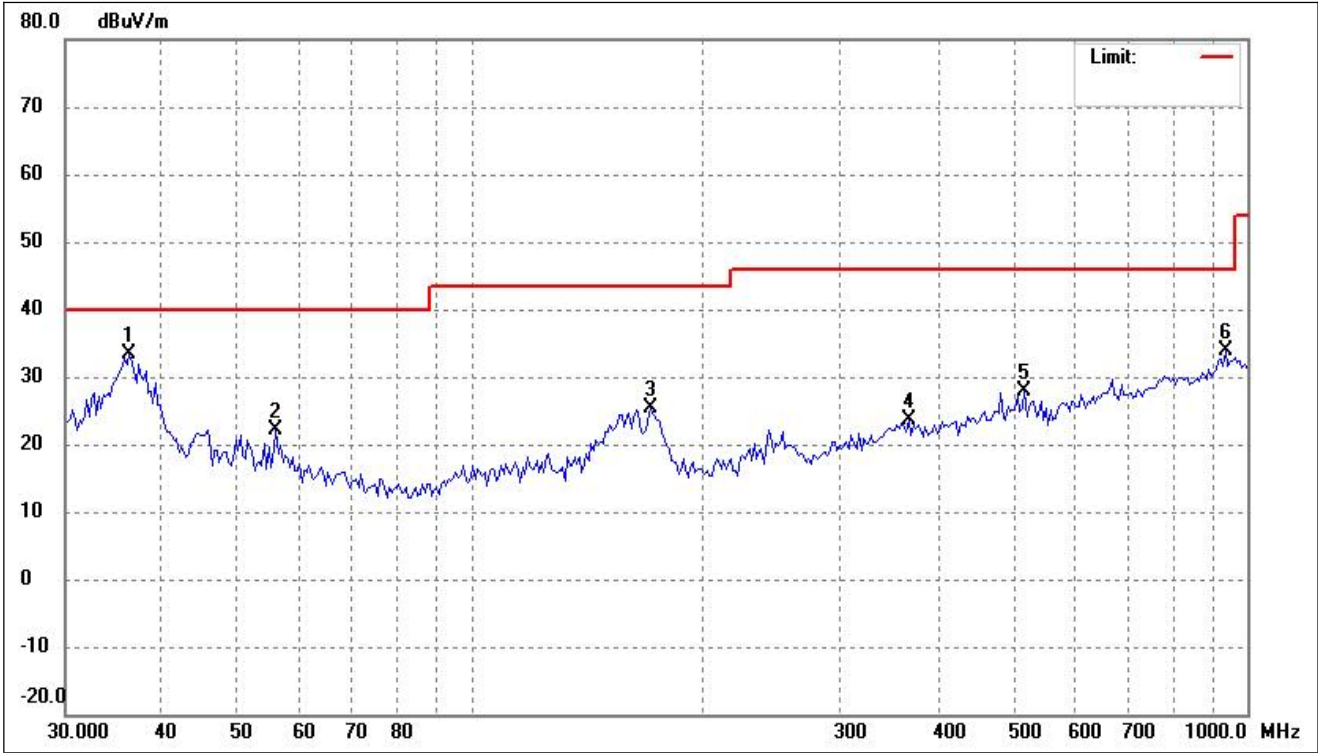
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.7811	42.86	-9.97	32.89	40.00	-7.11	-	-	peak
2	49.7571	31.86	-8.98	22.88	40.00	-17.12	-	-	peak
3	155.3305	33.91	-8.62	25.29	43.50	-18.21	-	-	peak
4	381.8520	30.63	-6.44	24.19	46.00	-21.81	-	-	peak
5	516.5651	31.51	-4.01	27.50	46.00	-18.50	-	-	peak
6	868.8860	30.37	1.33	31.70	46.00	-14.30	-	-	peak

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.7617	31.02	-10.13	20.89	40.00	-19.11	-	-	peak
2	100.4712	40.53	-13.50	27.03	43.50	-16.47	-	-	peak
3	162.0197	37.68	-8.53	29.15	43.50	-14.35	-	-	peak
4	222.2807	40.53	-11.50	29.03	46.00	-16.97	-	-	peak
5	651.3831	28.24	-1.33	26.91	46.00	-19.09	-	-	peak
6	938.7139	31.84	2.72	34.56	46.00	-11.44	-	-	peak

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



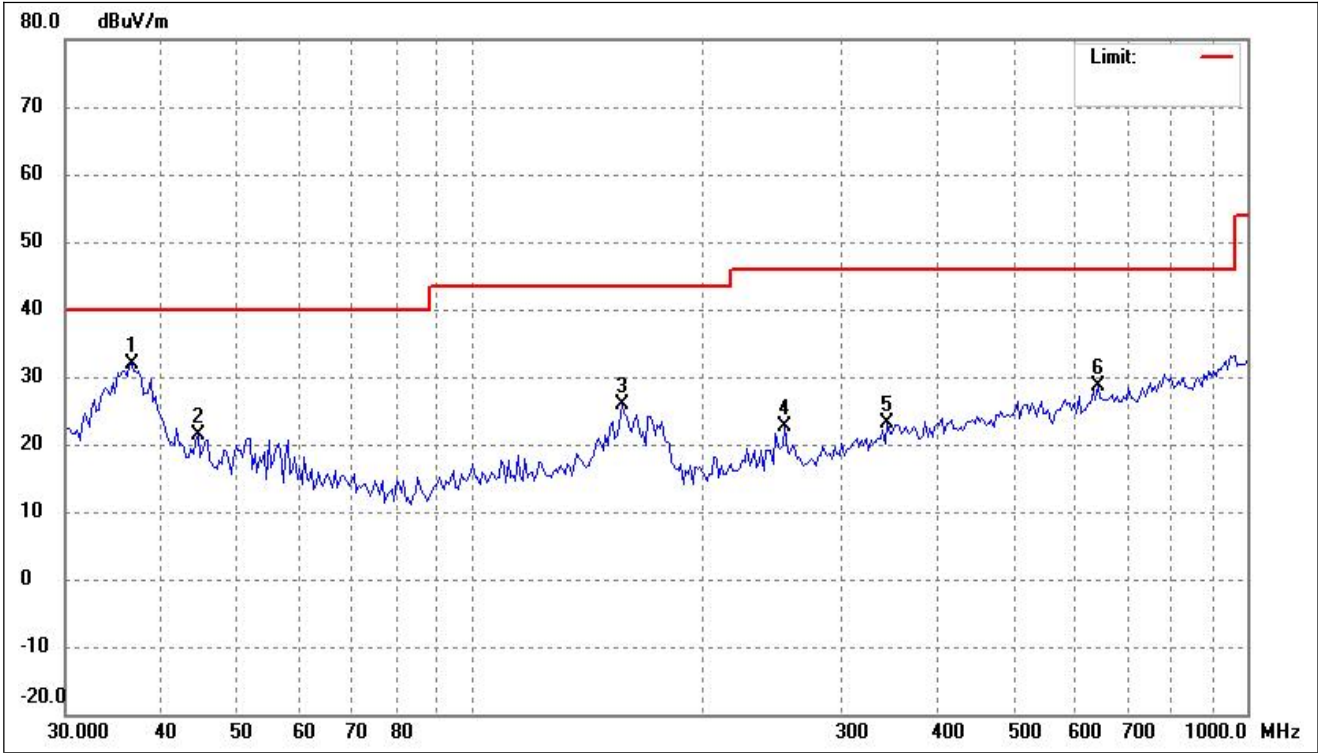
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.2678	43.35	-10.05	33.30	40.00	-6.70	-	-	peak
2	56.0708	31.33	-9.26	22.07	40.00	-17.93	-	-	peak
3	170.1888	34.19	-8.87	25.32	43.50	-18.18	-	-	peak
4	366.0866	30.41	-6.75	23.66	46.00	-22.34	-	-	peak
5	516.5651	31.81	-4.01	27.80	46.00	-18.20	-	-	peak
6	938.7139	31.09	2.72	33.81	46.00	-12.19	-	-	peak

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



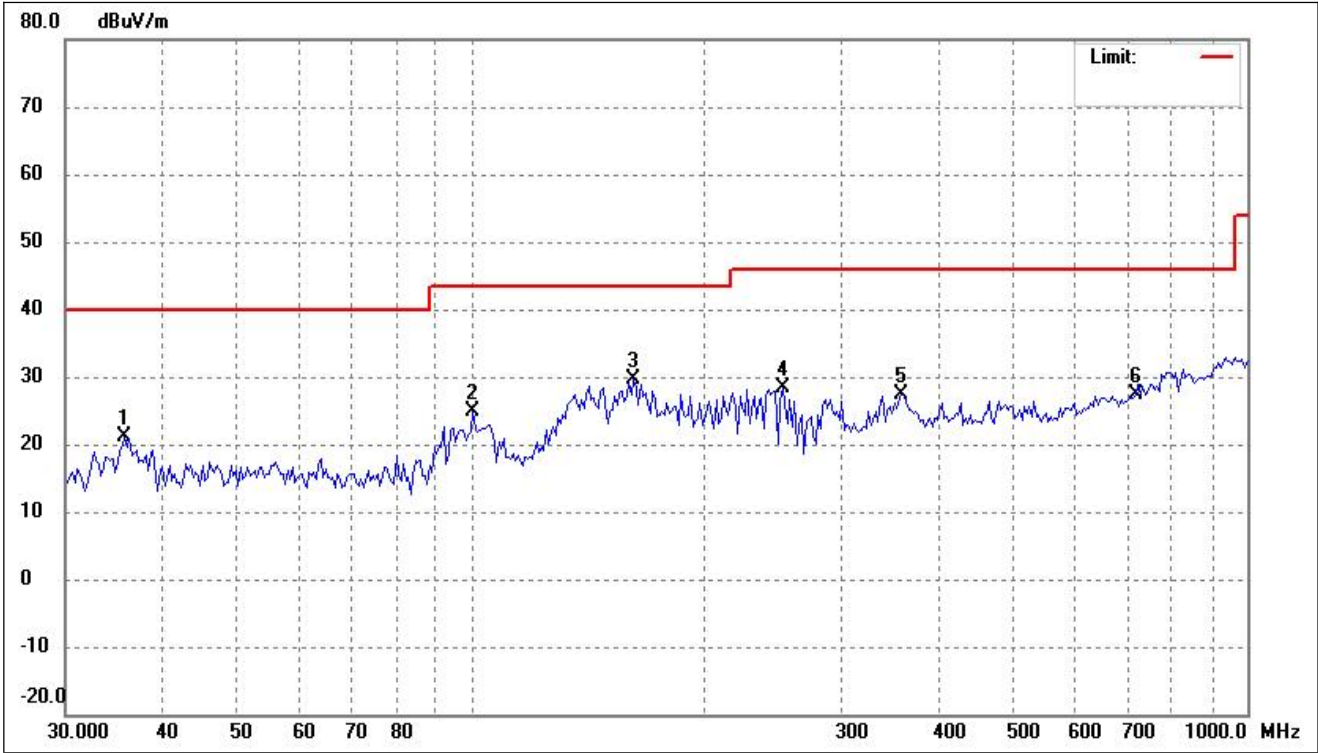
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	104.0640	39.69	-12.88	26.81	43.50	-16.69	-	-	peak
2	145.8109	36.62	-9.10	27.52	43.50	-15.98	-	-	peak
3	159.7586	38.96	-8.53	30.43	43.50	-13.07	-	-	peak
4	246.9901	38.12	-9.71	28.41	46.00	-17.59	-	-	peak
5	495.2379	31.57	-4.45	27.12	46.00	-18.88	-	-	peak
6	938.7139	31.62	2.72	34.34	46.00	-11.66	-	-	peak

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



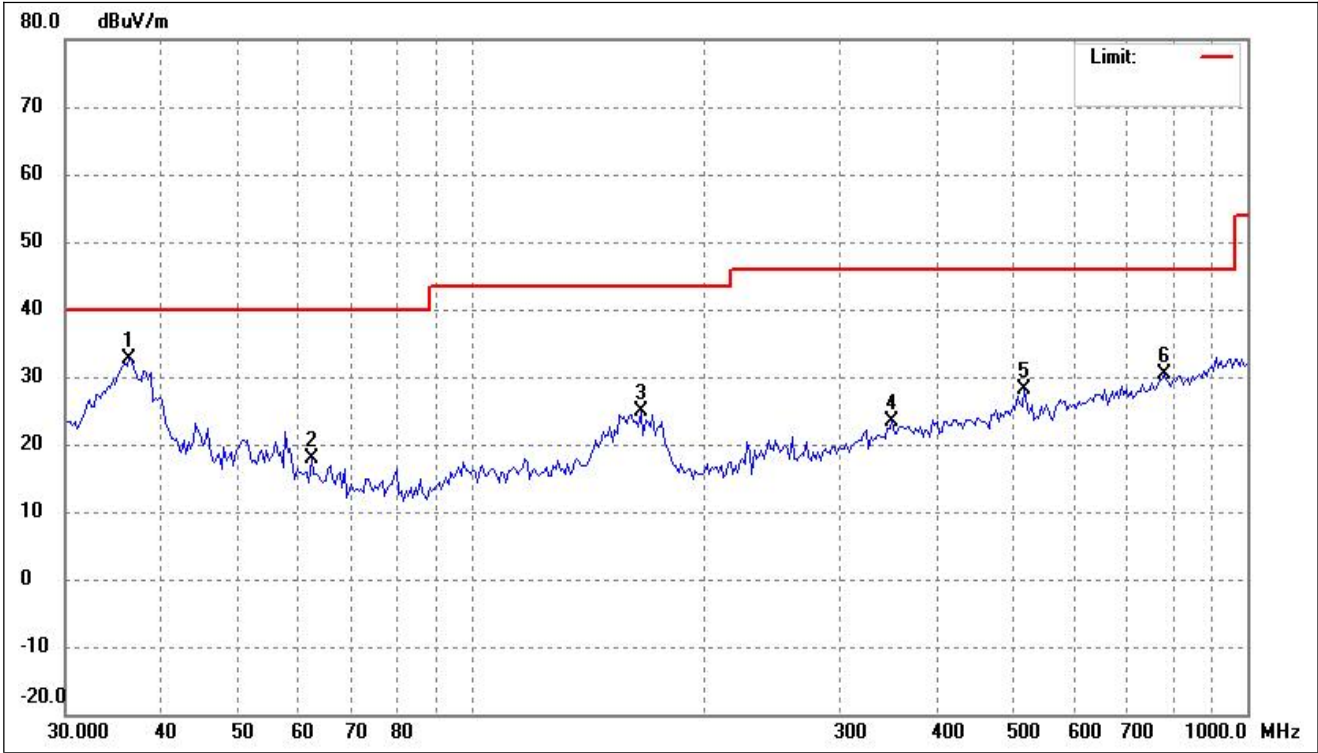
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.5236	41.80	-10.01	31.79	40.00	-8.21	-	-	peak
2	44.4657	30.54	-9.10	21.44	40.00	-18.56	-	-	peak
3	156.4259	34.41	-8.58	25.83	43.50	-17.67	-	-	peak
4	254.0312	32.04	-9.43	22.61	46.00	-23.39	-	-	peak
5	343.6506	30.23	-7.09	23.14	46.00	-22.86	-	-	peak
6	642.2923	30.25	-1.59	28.66	46.00	-17.34	-	-	peak

802.11ac-VHT40			
Test Channel	5270MHz(worst case)	Polarity:	Horizontal



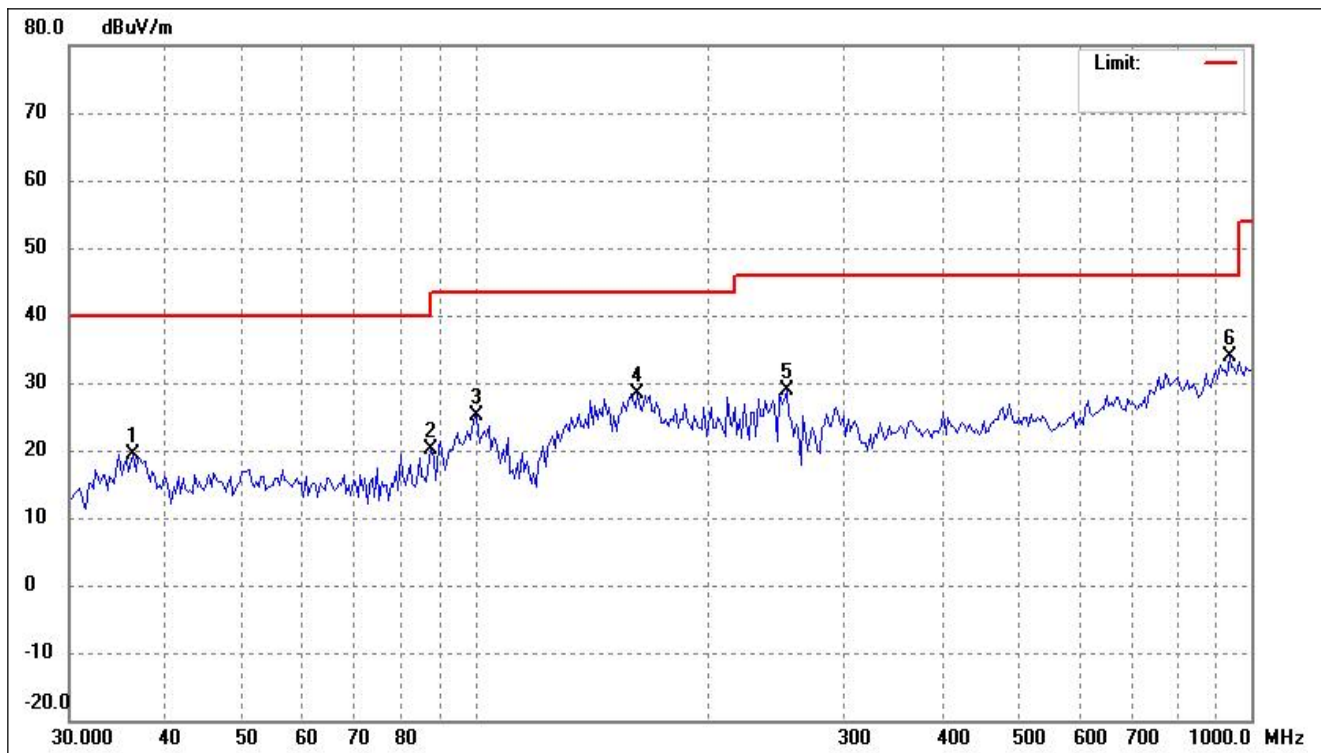
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.7617	31.22	-10.13	21.09	40.00	-18.91	-	-	peak
2	100.4712	38.29	-13.50	24.79	43.50	-18.71	-	-	peak
3	162.0197	38.10	-8.53	29.57	43.50	-13.93	-	-	peak
4	252.2523	37.84	-9.50	28.34	46.00	-17.66	-	-	peak
5	358.4497	34.26	-6.88	27.38	46.00	-18.62	-	-	peak
6	718.7246	27.88	-0.53	27.35	46.00	-18.65	-	-	peak

802.11ac-VHT40			
Test Channel	5270MHz(worst case)	Polarity:	Vertical



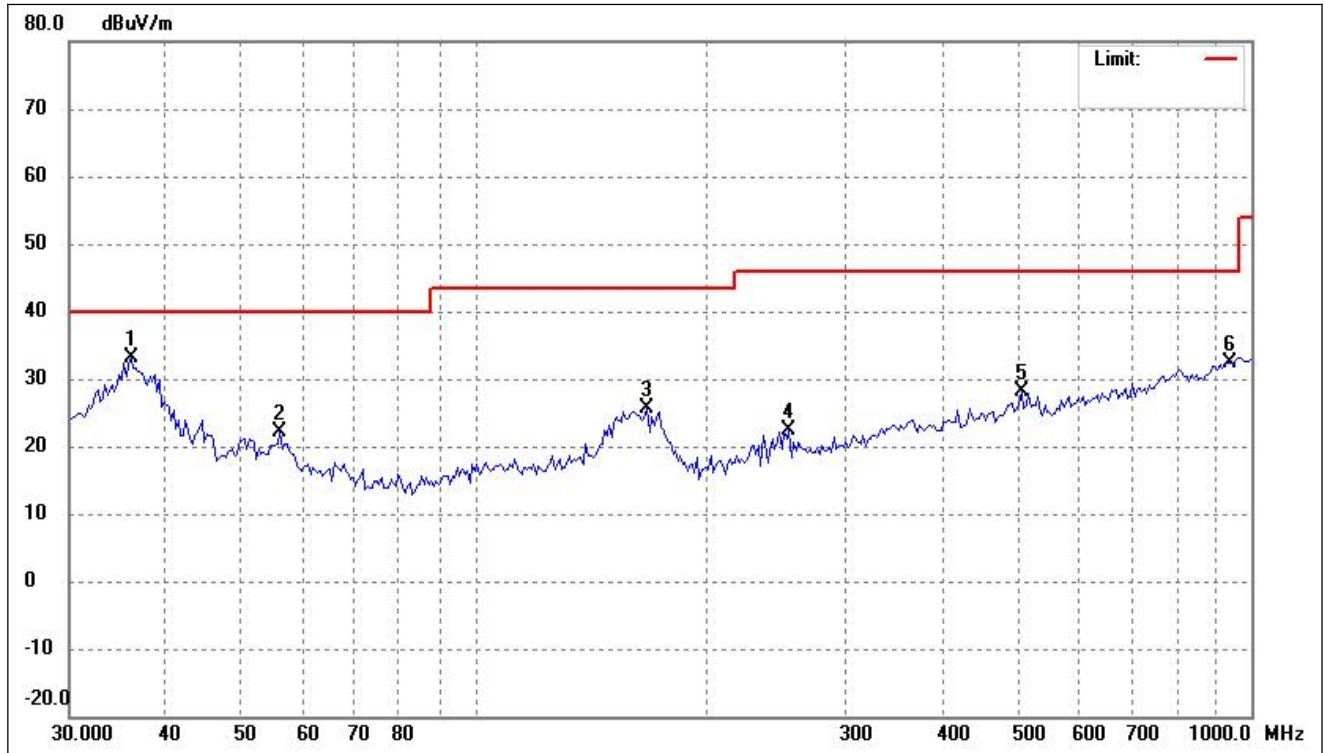
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.2678	42.60	-10.05	32.55	40.00	-7.45	-	-	peak
2	62.3038	27.71	-9.86	17.85	40.00	-22.15	-	-	peak
3	165.4716	33.51	-8.71	24.80	43.50	-18.70	-	-	peak
4	348.5145	30.35	-7.04	23.31	46.00	-22.69	-	-	peak
5	516.5651	32.13	-4.01	28.12	46.00	-17.88	-	-	peak
6	781.9606	29.79	0.71	30.50	46.00	-15.50	-	-	peak

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.2678	29.45	-10.05	19.40	40.00	-20.60	-	-	peak
2	87.9136	34.52	-14.28	20.24	40.00	-19.76	-	-	peak
3	100.4712	38.69	-13.50	25.19	43.50	-18.31	-	-	peak
4	162.0197	36.91	-8.53	28.38	43.50	-15.12	-	-	peak
5	252.2523	38.42	-9.50	28.92	46.00	-17.08	-	-	peak
6	938.7139	31.09	2.72	33.81	46.00	-12.19	-	-	peak

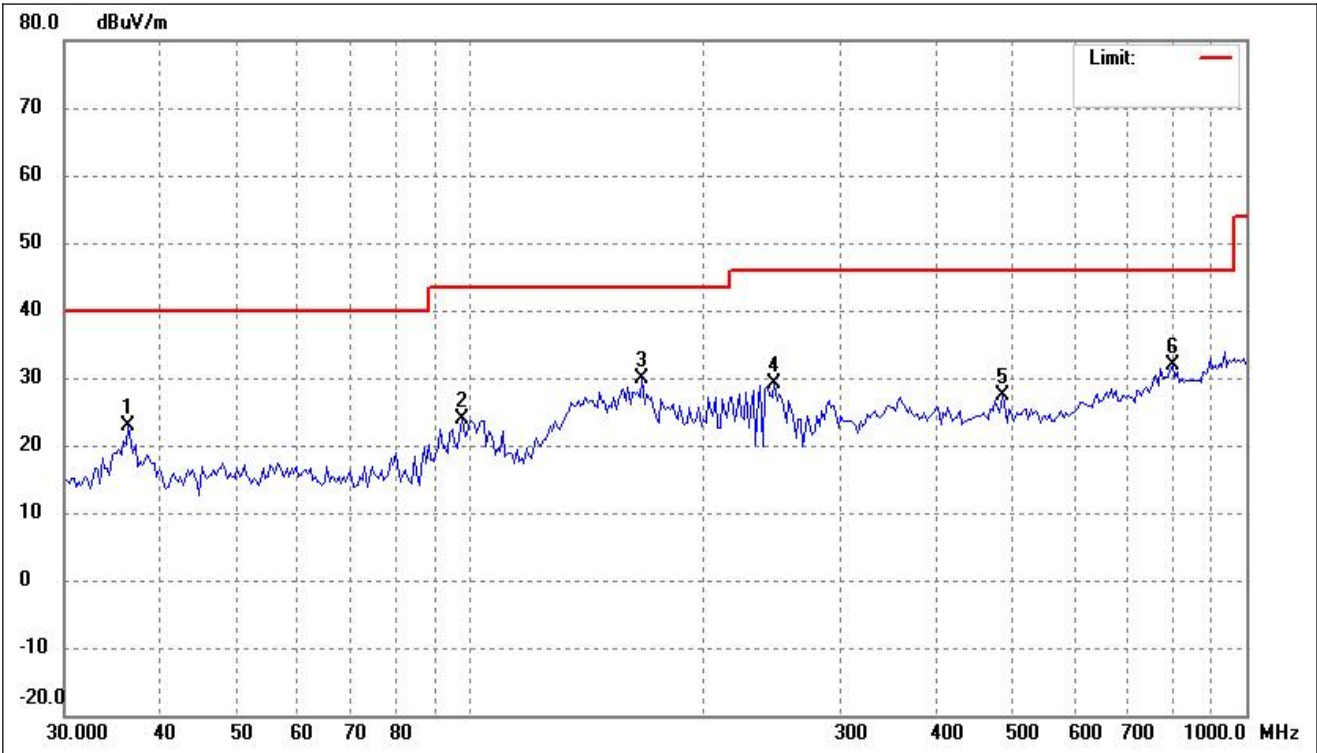
802.11ax-HE40			
Test Channel	5270MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.0139	43.20	-10.10	33.10	40.00	-6.90	-	-	peak
2	56.0708	31.51	-9.26	22.25	40.00	-17.75	-	-	peak
3	166.6385	34.28	-8.75	25.53	43.50	-17.97	-	-	peak
4	254.0312	31.72	-9.43	22.29	46.00	-23.71	-	-	peak
5	505.7891	32.25	-4.23	28.02	46.00	-17.98	-	-	peak
6	938.7139	29.78	2.72	32.50	46.00	-13.50	-	-	peak

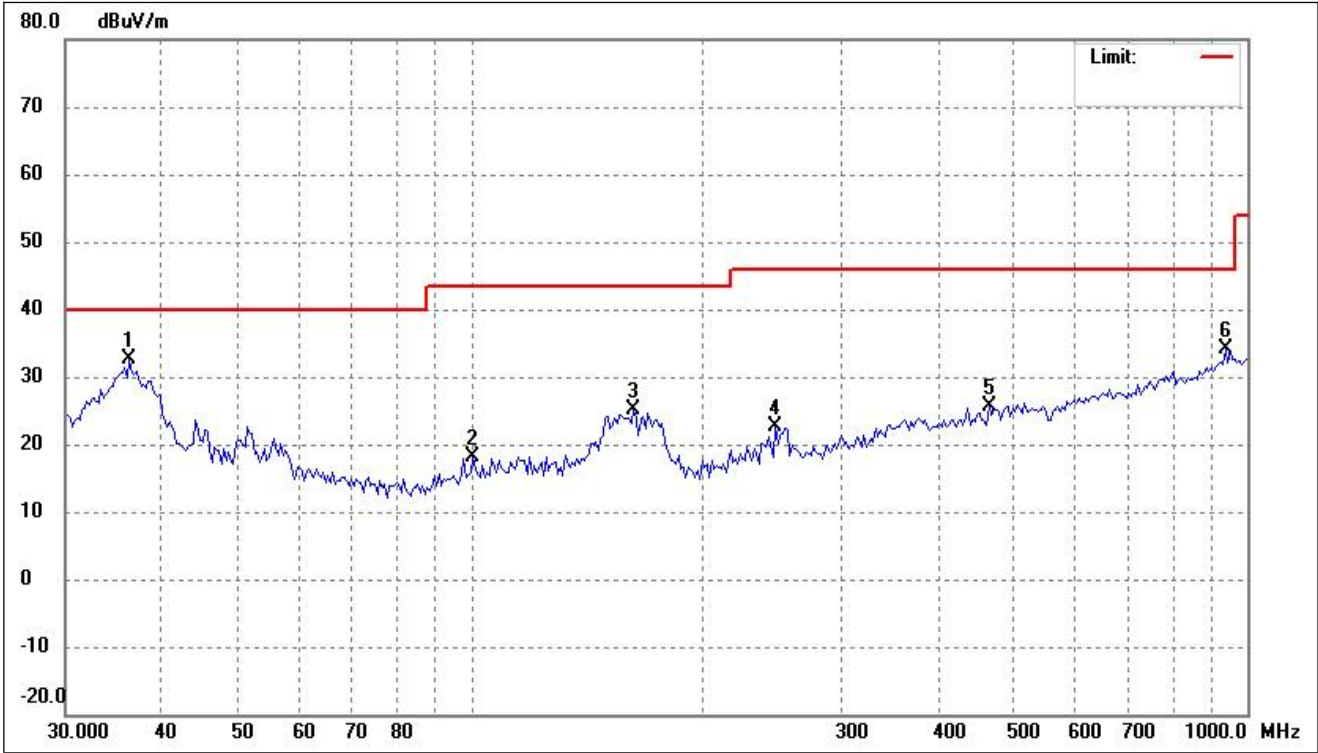
➤ 5470-5725MHz

802.11a			
Test Channel	5500MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.2678	33.01	-10.05	22.96	40.00	-17.04	-	-	peak
2	97.6864	37.83	-13.92	23.91	43.50	-19.59	-	-	peak
3	166.6385	38.74	-8.75	29.99	43.50	-13.51	-	-	peak
4	246.9901	38.80	-9.71	29.09	46.00	-16.91	-	-	peak
5	484.9068	32.02	-4.66	27.36	46.00	-18.64	-	-	peak
6	804.2523	30.78	1.01	31.79	46.00	-14.21	-	-	peak

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



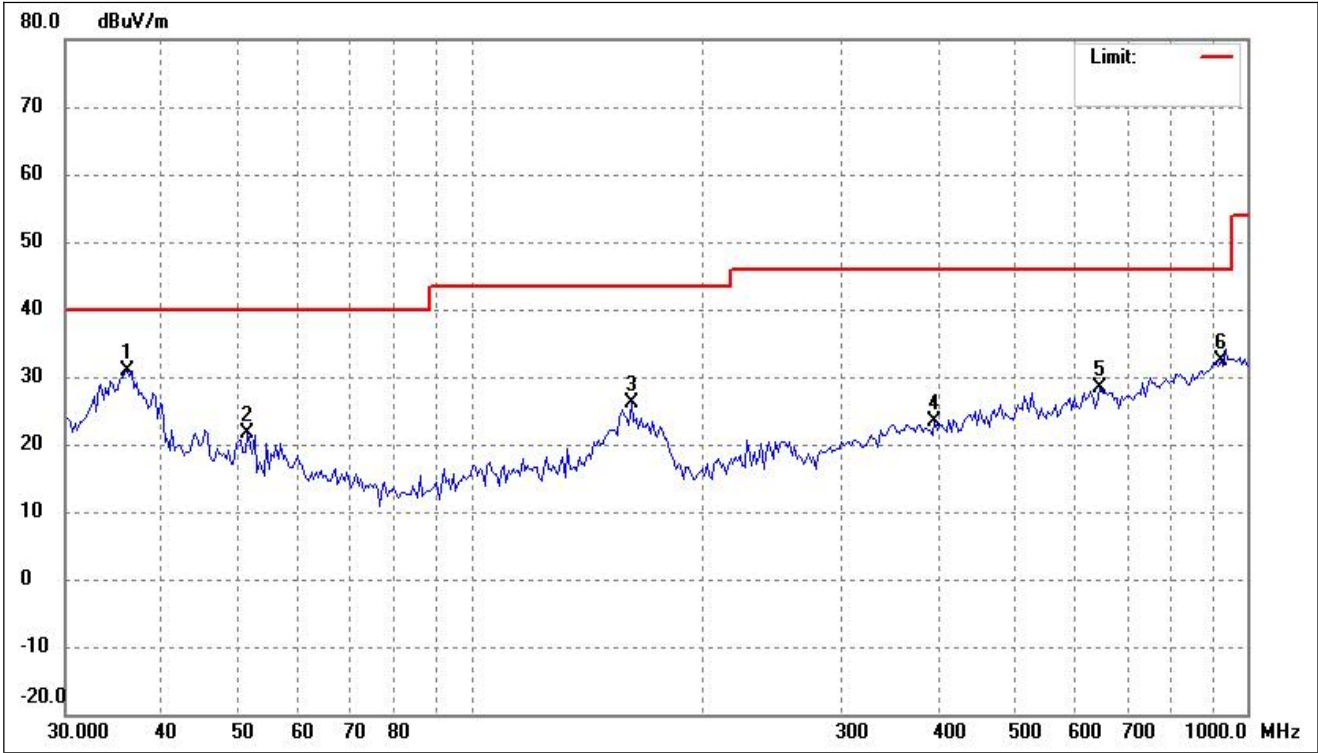
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.2678	42.63	-10.05	32.58	40.00	-7.42	-	-	peak
2	100.4712	31.66	-13.50	18.16	43.50	-25.34	-	-	peak
3	162.0197	33.55	-8.53	25.02	43.50	-18.48	-	-	peak
4	246.9901	32.28	-9.71	22.57	46.00	-23.43	-	-	peak
5	464.8867	30.52	-4.90	25.62	46.00	-20.38	-	-	peak
6	938.7139	31.41	2.72	34.13	46.00	-11.87	-	-	peak

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



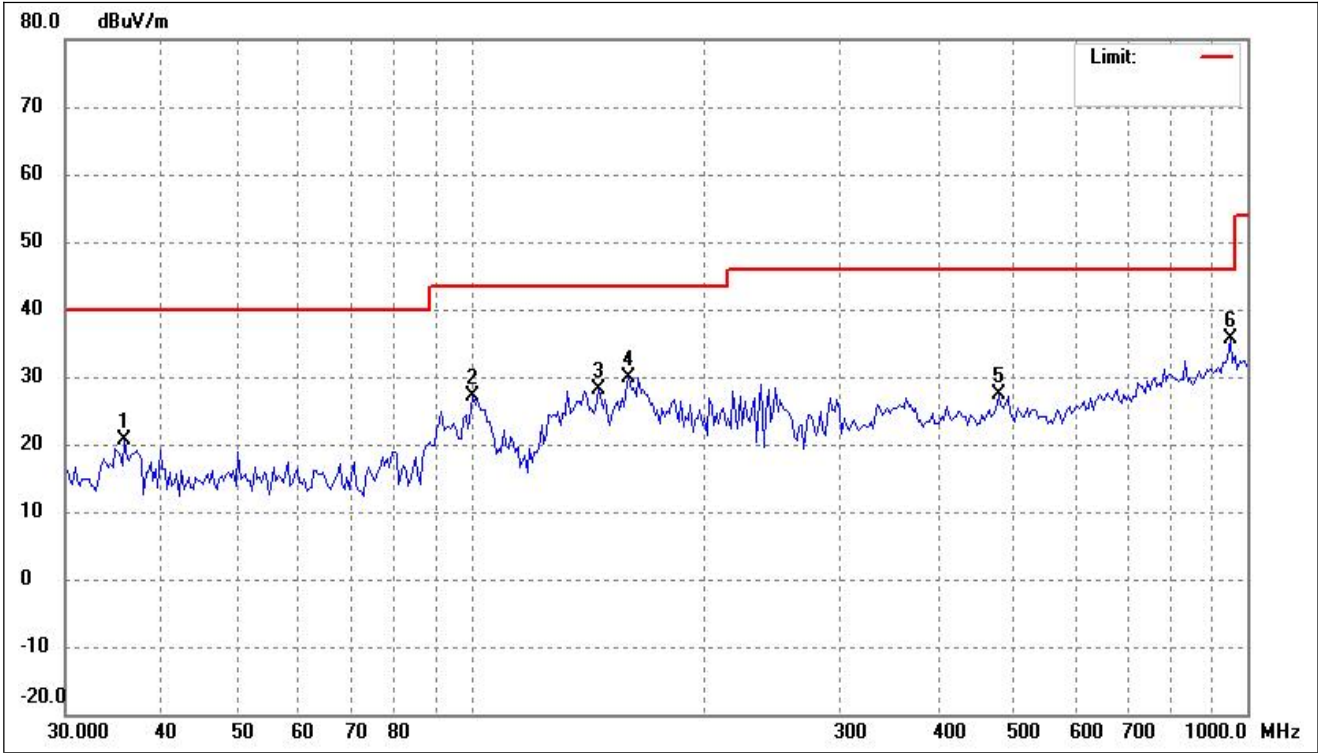
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.7617	29.20	-10.13	19.07	40.00	-20.93	-	-	peak
2	100.4712	42.03	-13.50	28.53	43.50	-14.97	-	-	peak
3	166.6385	41.45	-8.75	32.70	43.50	-10.80	-	-	peak
4	241.8377	39.19	-9.91	29.28	46.00	-16.72	-	-	peak
5	488.3263	32.21	-4.59	27.62	46.00	-18.38	-	-	peak
6	952.0001	31.59	2.95	34.54	46.00	-11.46	-	-	peak

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



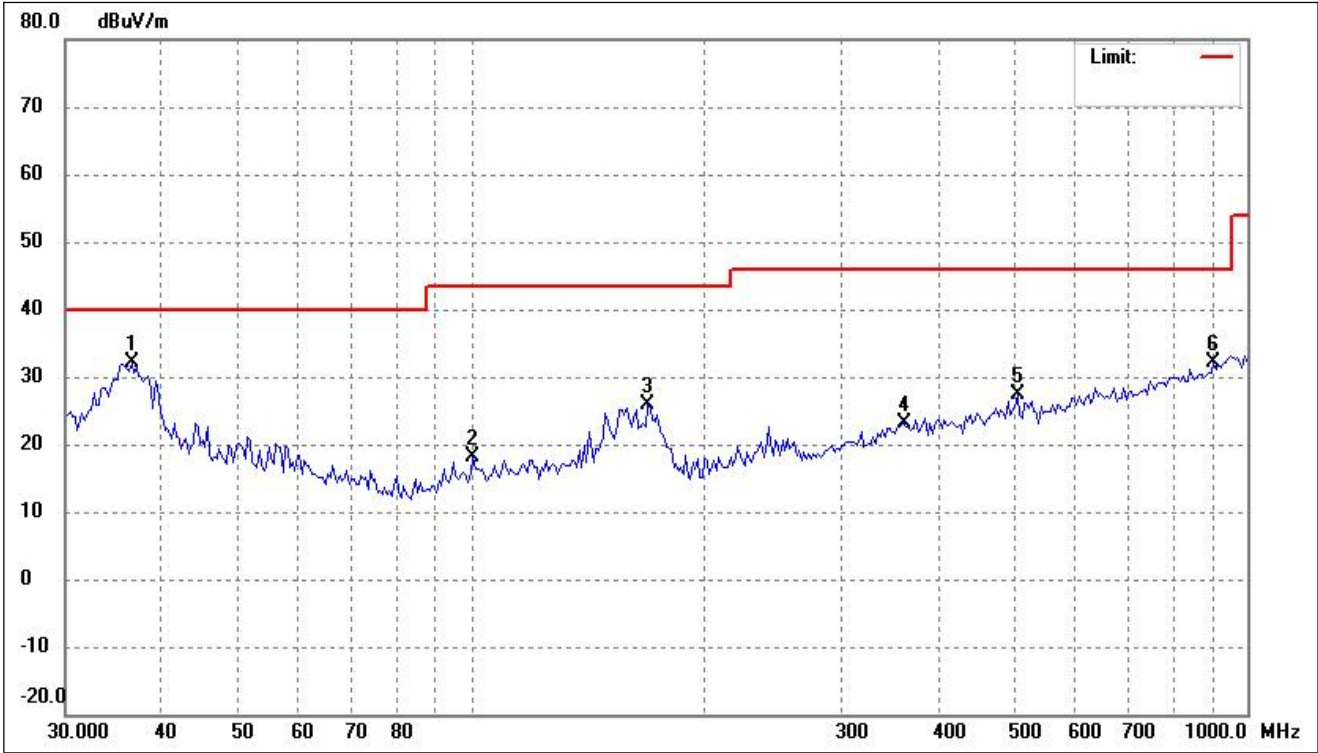
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.0139	40.98	-10.10	30.88	40.00	-9.12	-	-	peak
2	51.5365	30.62	-8.99	21.63	40.00	-18.37	-	-	peak
3	160.8852	34.53	-8.51	26.02	43.50	-17.48	-	-	peak
4	395.5071	29.54	-6.18	23.36	46.00	-22.64	-	-	peak
5	646.8217	29.89	-1.45	28.44	46.00	-17.56	-	-	peak
6	925.6132	29.94	2.46	32.40	46.00	-13.60	-	-	peak

802.11ac-VHT20			
Test Channel	5500MHz(worst case)	Polarity:	Horizontal



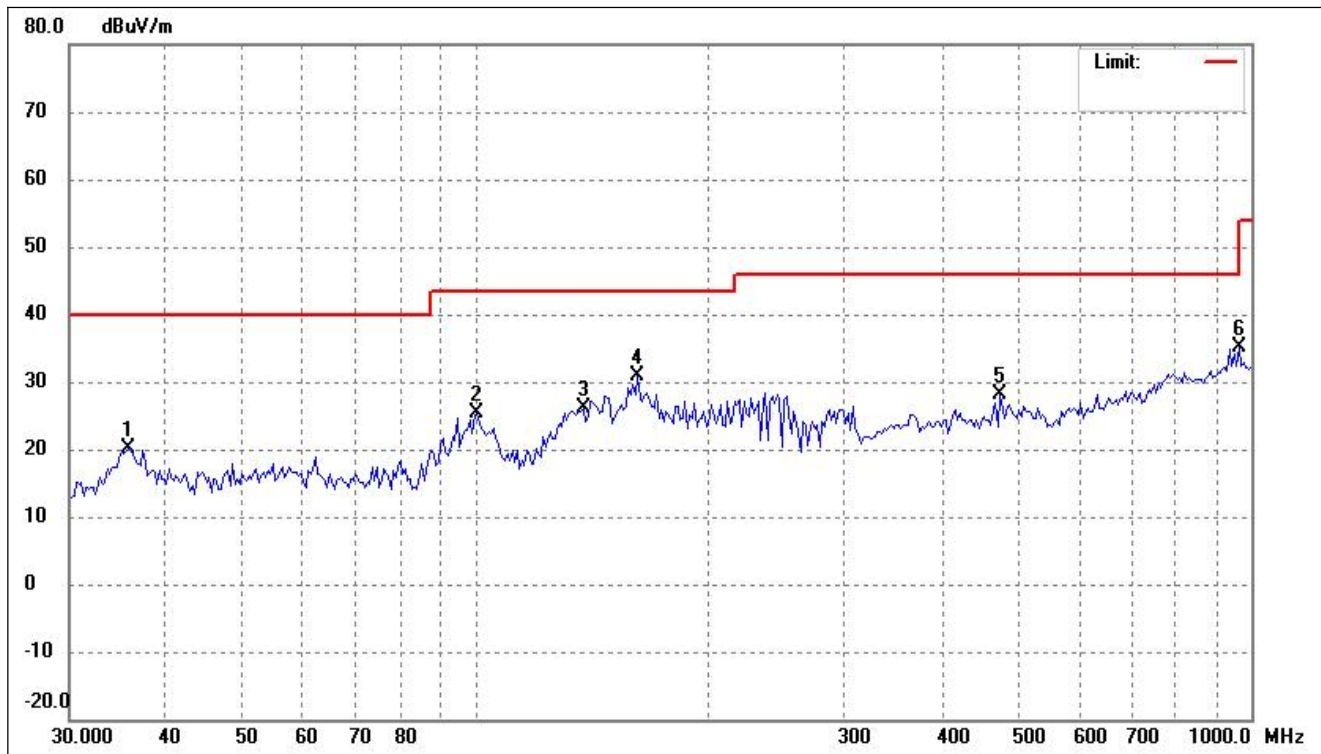
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.7617	30.66	-10.13	20.53	40.00	-19.47	-	-	peak
2	100.4712	40.56	-13.50	27.06	43.50	-16.44	-	-	peak
3	145.8109	37.35	-9.10	28.25	43.50	-15.25	-	-	peak
4	159.7586	38.38	-8.53	29.85	43.50	-13.65	-	-	peak
5	478.1394	32.08	-4.79	27.29	46.00	-18.71	-	-	peak
6	952.0001	32.67	2.95	35.62	46.00	-10.38	-	-	peak

802.11ac-VHT20			
Test Channel	5500MHz(worst case)	Polarity:	Vertical



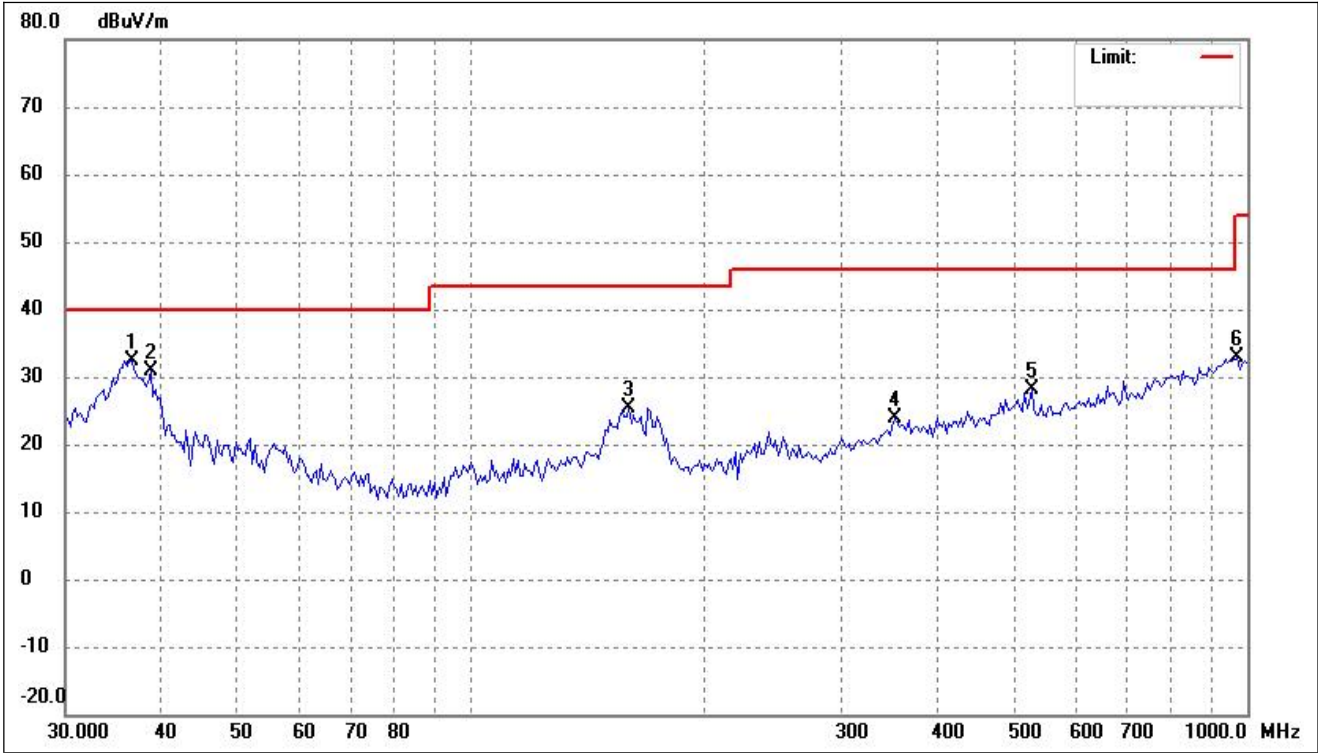
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.5236	42.19	-10.01	32.18	40.00	-7.82	-	-	peak
2	100.4712	31.60	-13.50	18.10	43.50	-25.40	-	-	peak
3	168.9970	34.68	-8.80	25.88	43.50	-17.62	-	-	peak
4	360.9775	30.02	-6.84	23.18	46.00	-22.82	-	-	peak
5	505.7891	31.71	-4.23	27.48	46.00	-18.52	-	-	peak
6	906.3041	29.98	2.08	32.06	46.00	-13.94	-	-	peak

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



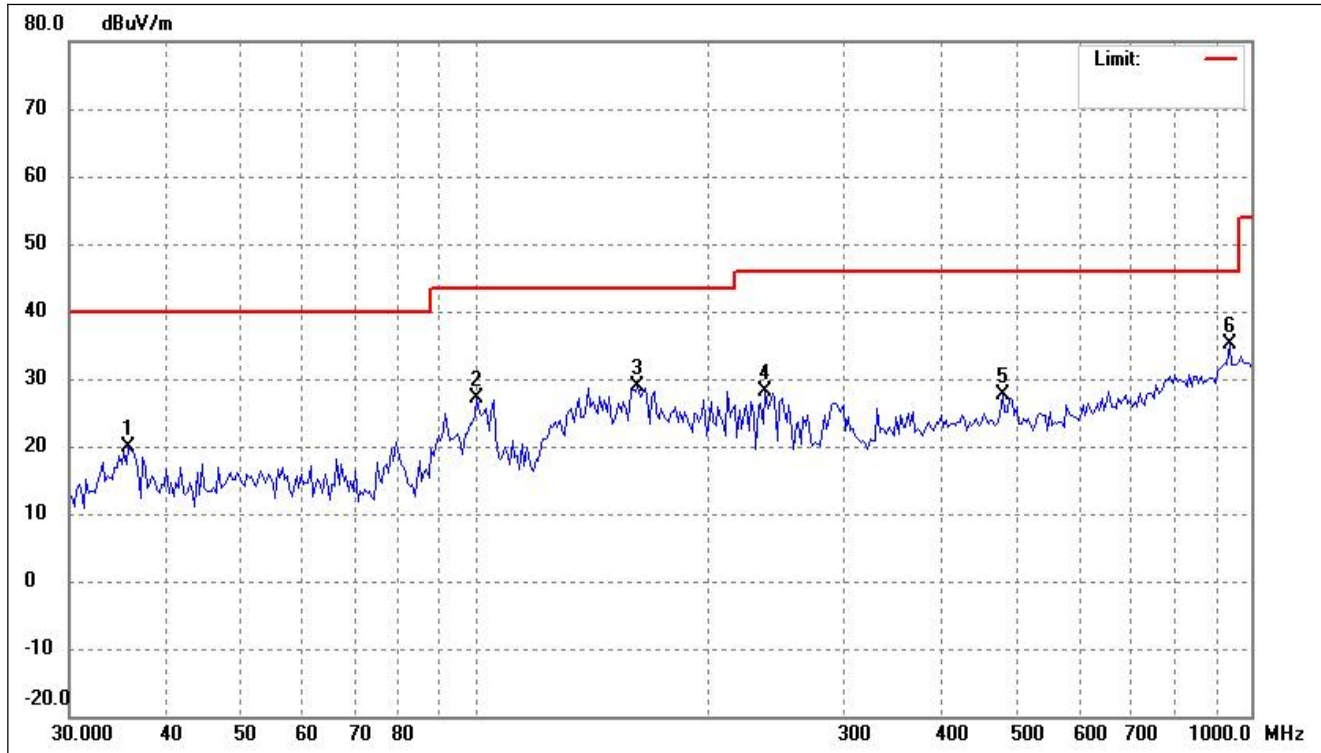
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.7617	30.37	-10.13	20.24	40.00	-19.76	-	-	peak
2	100.4712	38.95	-13.50	25.45	43.50	-18.05	-	-	peak
3	137.8400	35.59	-9.52	26.07	43.50	-17.43	-	-	peak
4	162.0197	39.35	-8.53	30.82	43.50	-12.68	-	-	peak
5	474.7913	32.96	-4.86	28.10	46.00	-17.90	-	-	peak
6	965.4742	32.14	2.98	35.12	54.00	-18.88	-	-	peak

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



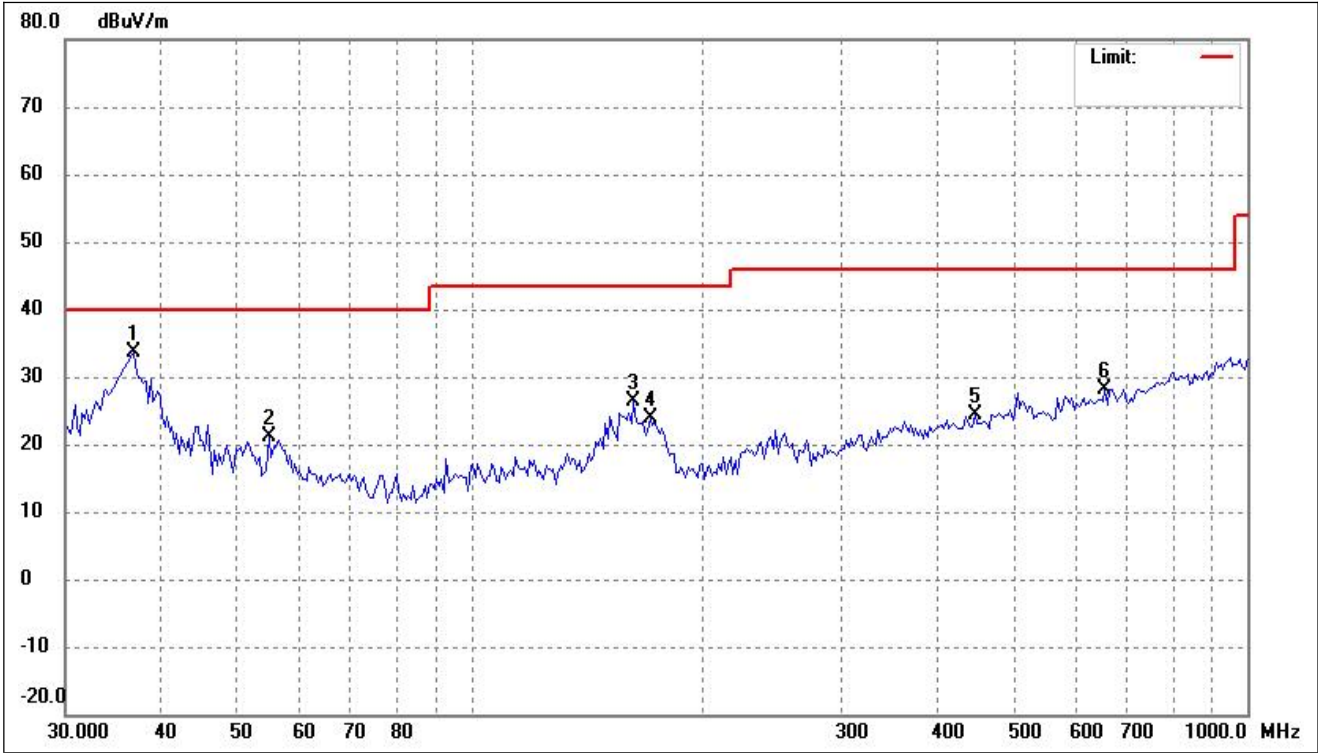
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.5236	42.39	-10.01	32.38	40.00	-7.62	-	-	peak
2	38.6357	40.72	-9.73	30.99	40.00	-9.01	-	-	peak
3	159.7586	33.87	-8.53	25.34	43.50	-18.16	-	-	peak
4	350.9722	30.93	-7.01	23.92	46.00	-22.08	-	-	peak
5	527.5707	31.84	-3.81	28.03	46.00	-17.97	-	-	peak
6	972.2827	29.92	2.98	32.90	54.00	-21.10	-	-	peak

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



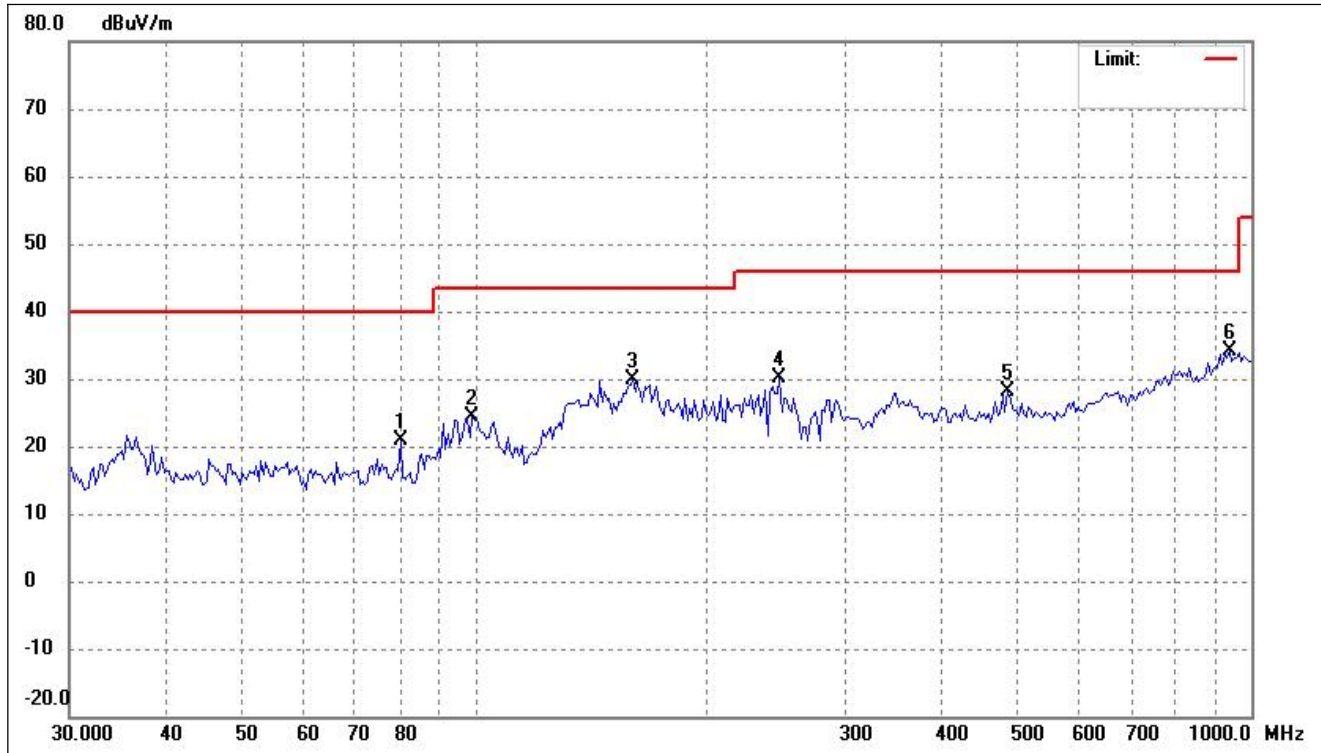
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.7617	30.03	-10.13	19.90	40.00	-20.10	-	-	peak
2	100.4712	40.62	-13.50	27.12	43.50	-16.38	-	-	peak
3	162.0197	37.52	-8.53	28.99	43.50	-14.51	-	-	peak
4	236.7928	38.29	-10.18	28.11	46.00	-17.89	-	-	peak
5	478.1394	32.48	-4.79	27.69	46.00	-18.31	-	-	peak
6	938.7139	32.41	2.72	35.13	46.00	-10.87	-	-	peak

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



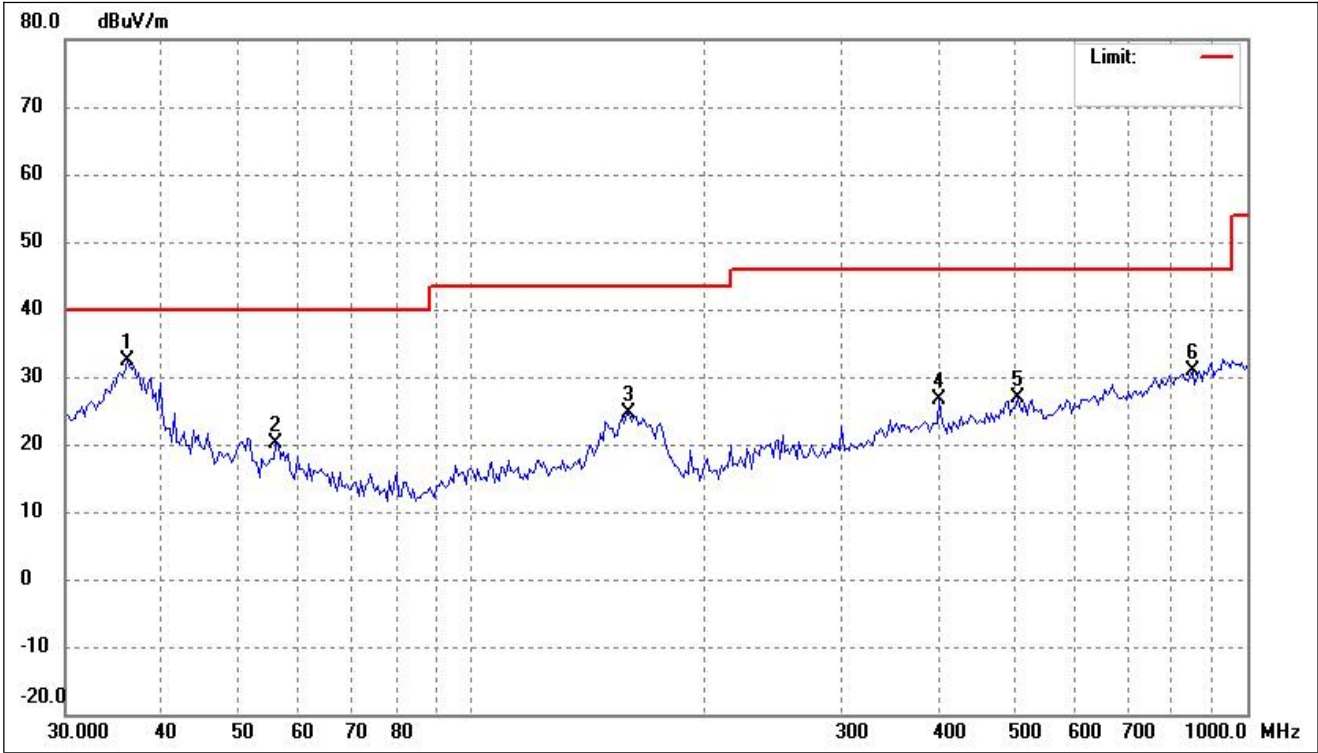
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.7811	43.64	-9.97	33.67	40.00	-6.33	-	-	peak
2	54.9011	30.41	-9.20	21.21	40.00	-18.79	-	-	peak
3	162.0197	34.89	-8.53	26.36	43.50	-17.14	-	-	peak
4	170.1888	32.82	-8.87	23.95	43.50	-19.55	-	-	peak
5	445.6932	29.59	-5.11	24.48	46.00	-21.52	-	-	peak
6	655.9766	29.47	-1.30	28.17	46.00	-17.83	-	-	peak

802.11ac-VHT40			
Test Channel	5510MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	80.2383	33.94	-13.08	20.86	40.00	-19.14	-	-	peak
2	99.0690	38.18	-13.73	24.45	43.50	-19.05	-	-	peak
3	159.7586	38.30	-8.53	29.77	43.50	-13.73	-	-	peak
4	246.9901	39.72	-9.71	30.01	46.00	-15.99	-	-	peak
5	484.9068	32.69	-4.66	28.03	46.00	-17.97	-	-	peak
6	938.7139	31.33	2.72	34.05	46.00	-11.95	-	-	peak

802.11ac-VHT40			
Test Channel	5510MHz(worst case)	Polarity:	Vertical



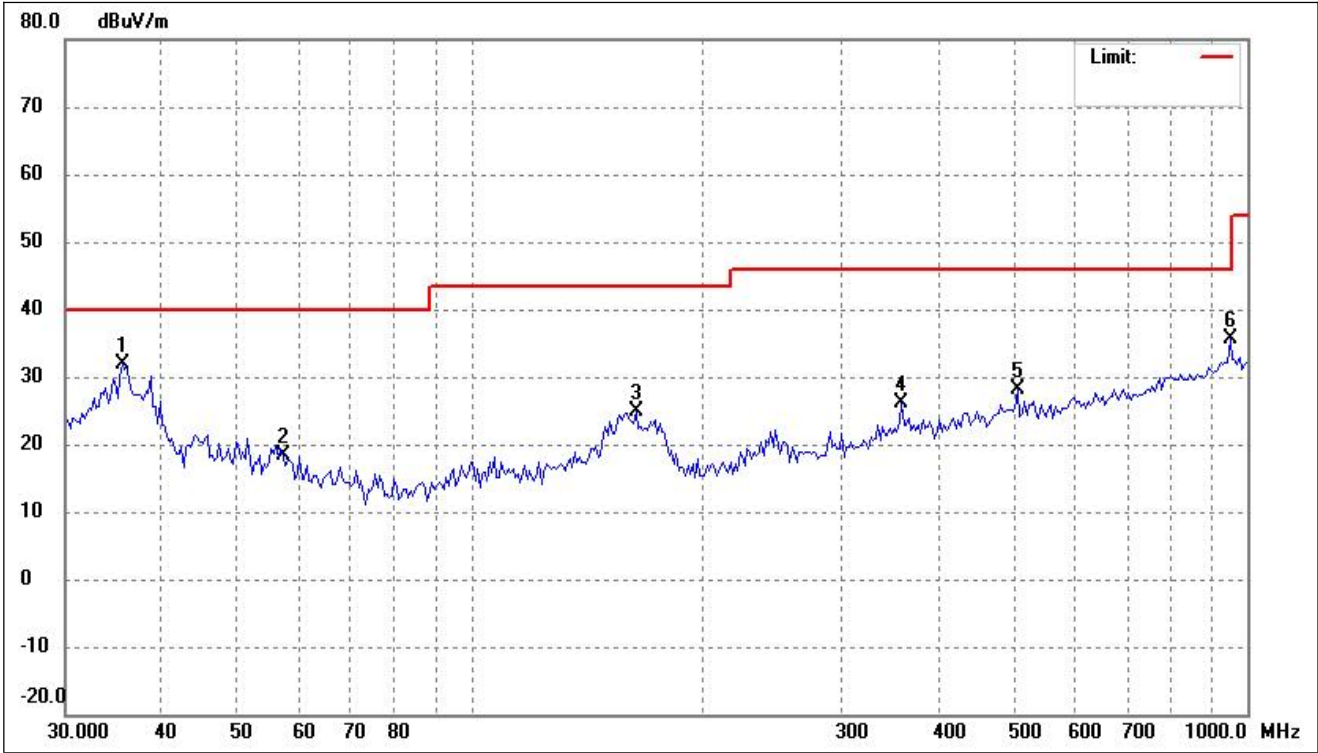
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.0139	42.42	-10.10	32.32	40.00	-7.68	-	-	peak
2	56.0708	29.43	-9.26	20.17	40.00	-19.83	-	-	peak
3	159.7586	33.22	-8.53	24.69	43.50	-18.81	-	-	peak
4	401.1050	32.73	-6.08	26.65	46.00	-19.35	-	-	peak
5	505.7891	31.03	-4.23	26.80	46.00	-19.20	-	-	peak
6	850.7603	29.98	0.97	30.95	46.00	-15.05	-	-	peak

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.7617	30.36	-10.13	20.23	40.00	-19.77	-	-	peak
2	100.4712	37.54	-13.50	24.04	43.50	-19.46	-	-	peak
3	158.6399	38.20	-8.56	29.64	43.50	-13.86	-	-	peak
4	246.9901	38.22	-9.71	28.51	46.00	-17.49	-	-	peak
5	488.3263	32.08	-4.59	27.49	46.00	-18.51	-	-	peak
6	798.6205	30.46	0.99	31.45	46.00	-14.55	-	-	peak

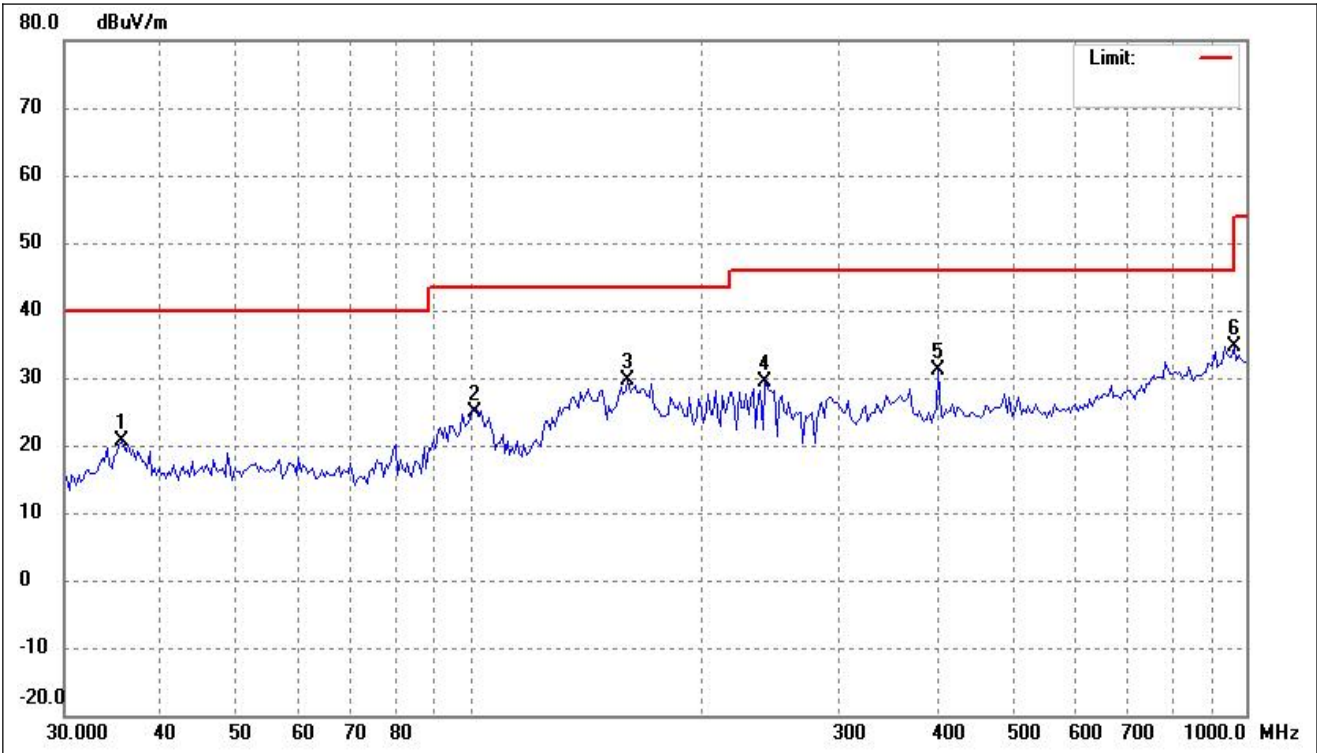
802.11ax-HE40			
Test Channel	5510MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.5112	42.07	-10.18	31.89	40.00	-8.11	-	-	peak
2	57.2654	27.78	-9.33	18.45	40.00	-21.55	-	-	peak
3	163.1623	33.52	-8.58	24.94	43.50	-18.56	-	-	peak
4	358.4497	32.99	-6.88	26.11	46.00	-19.89	-	-	peak
5	505.7891	32.38	-4.23	28.15	46.00	-17.85	-	-	peak
6	952.0001	32.69	2.95	35.64	46.00	-10.36	-	-	peak

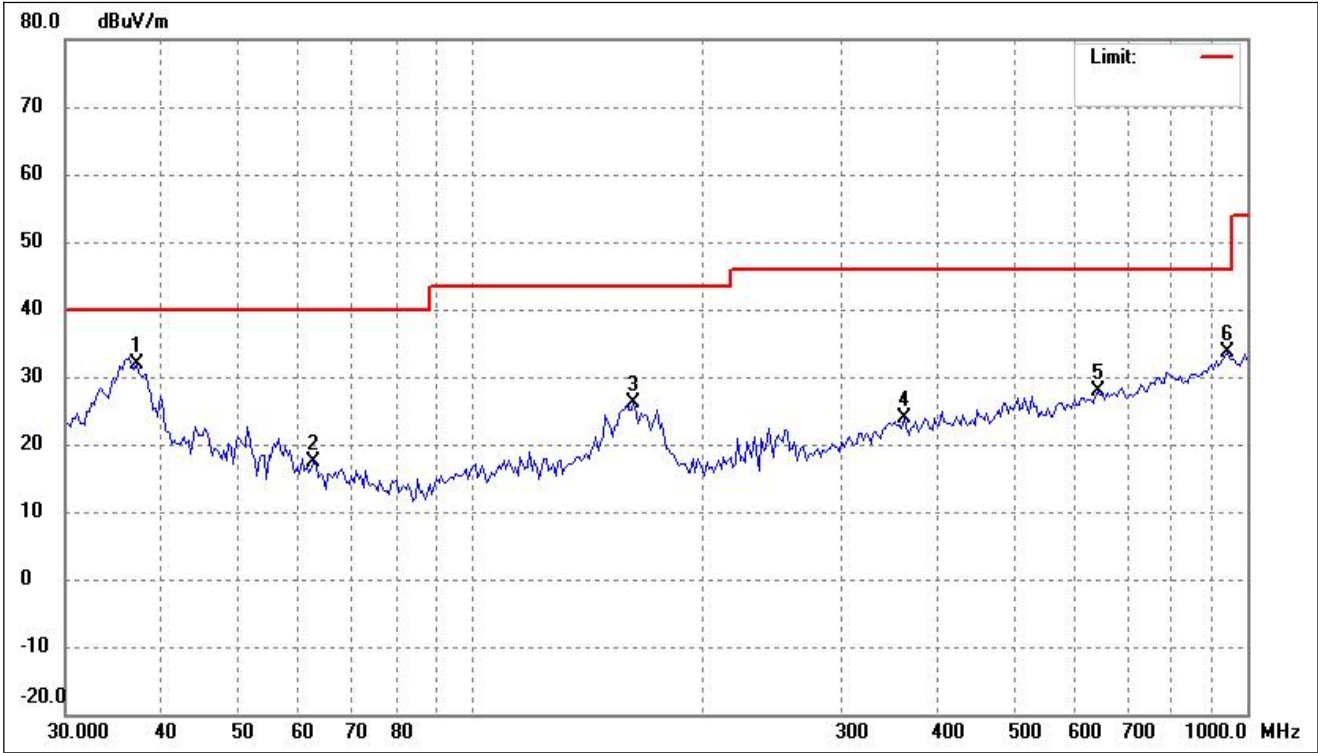
➤ 5725-5850MHz

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



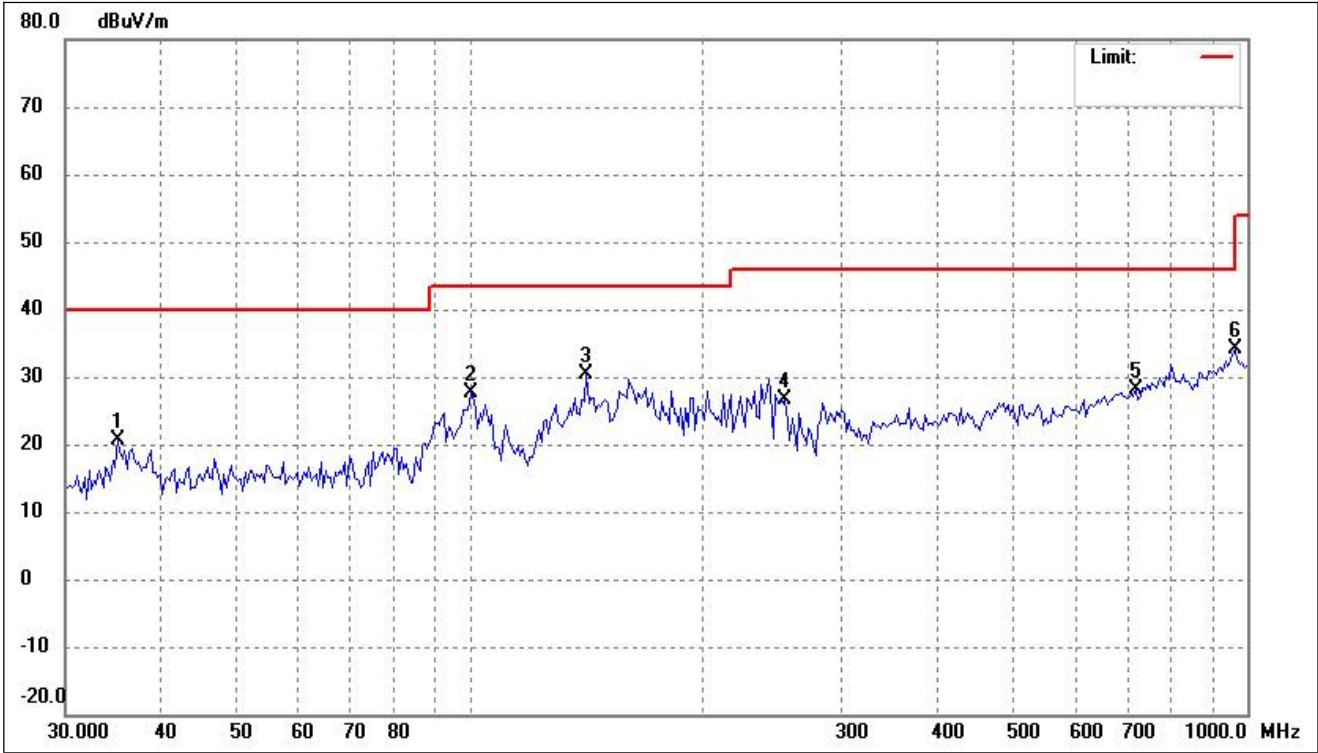
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.5112	30.78	-10.18	20.60	40.00	-19.40	-	-	peak
2	100.4712	38.44	-13.50	24.94	43.50	-18.56	-	-	peak
3	159.7586	38.24	-8.53	29.71	43.50	-13.79	-	-	peak
4	240.1442	39.24	-9.98	29.26	46.00	-16.74	-	-	peak
5	401.1050	37.15	-6.08	31.07	46.00	-14.93	-	-	peak
6	965.4742	31.70	2.98	34.68	54.00	-19.32	-	-	peak

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



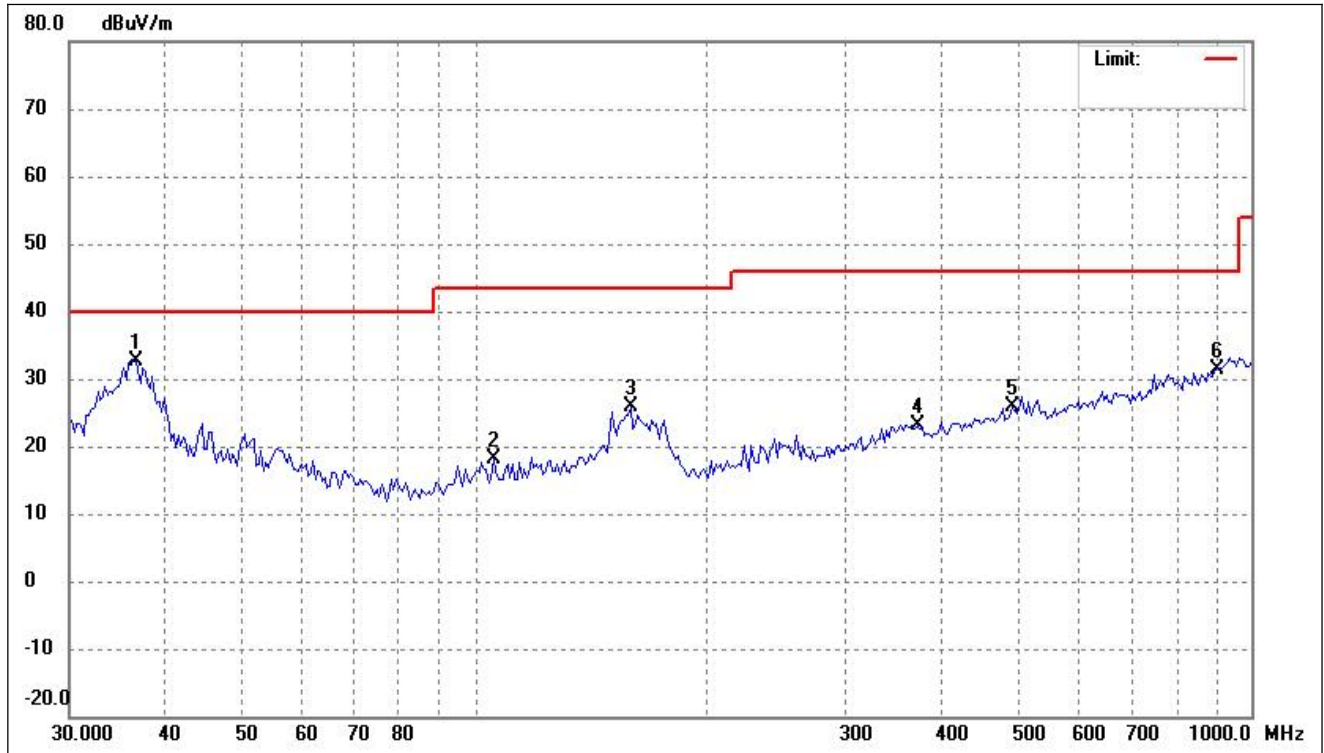
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.0405	41.87	-9.93	31.94	40.00	-8.06	-	-	peak
2	62.7432	27.40	-9.92	17.48	40.00	-22.52	-	-	peak
3	162.0197	34.71	-8.53	26.18	43.50	-17.32	-	-	peak
4	360.9775	30.68	-6.84	23.84	46.00	-22.16	-	-	peak
5	642.2923	29.41	-1.59	27.82	46.00	-18.18	-	-	peak
6	945.3336	30.82	2.85	33.67	46.00	-12.33	-	-	peak

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



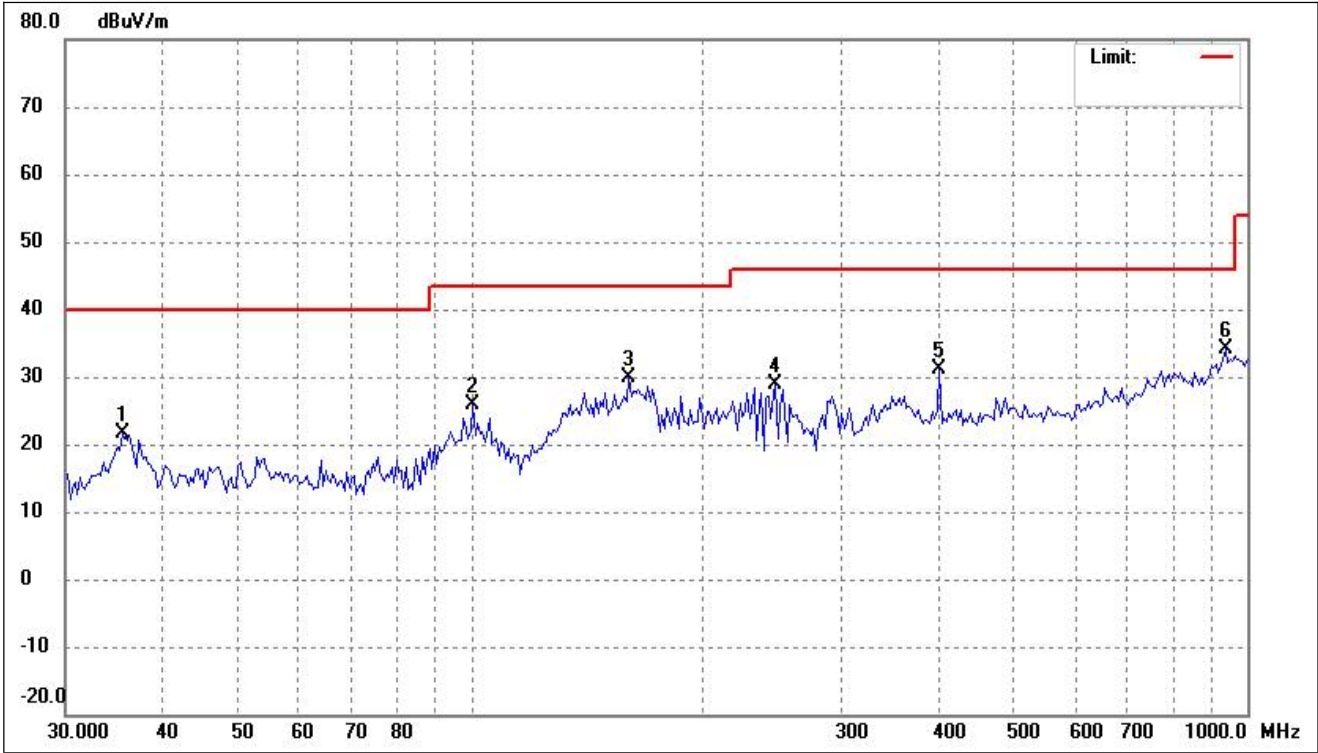
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.0157	30.89	-10.25	20.64	40.00	-19.36	-	-	peak
2	99.7676	41.27	-13.62	27.65	43.50	-15.85	-	-	peak
3	140.7767	39.58	-9.32	30.26	43.50	-13.24	-	-	peak
4	254.0312	36.00	-9.43	26.57	46.00	-19.43	-	-	peak
5	718.7246	28.72	-0.53	28.19	46.00	-17.81	-	-	peak
6	965.4742	31.11	2.98	34.09	54.00	-19.91	-	-	peak

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



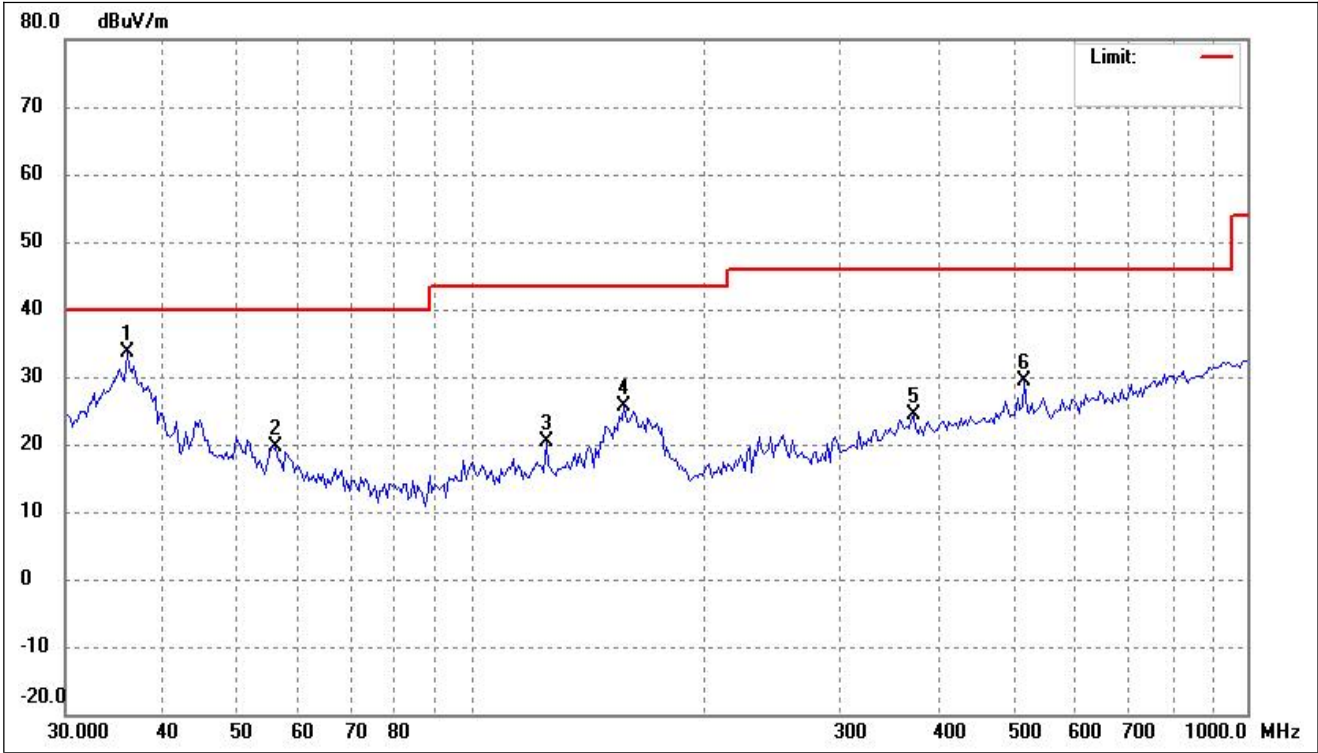
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.5236	42.59	-10.01	32.58	40.00	-7.42	-	-	peak
2	105.5369	30.76	-12.66	18.10	43.50	-25.40	-	-	peak
3	158.6399	34.38	-8.56	25.82	43.50	-17.68	-	-	peak
4	371.2679	29.88	-6.66	23.22	46.00	-22.78	-	-	peak
5	491.7700	30.44	-4.52	25.92	46.00	-20.08	-	-	peak
6	899.9577	29.50	1.96	31.46	46.00	-14.54	-	-	peak

802.11ac-VHT20			
Test Channel	5745MHz(worst case)	Polarity:	Horizontal



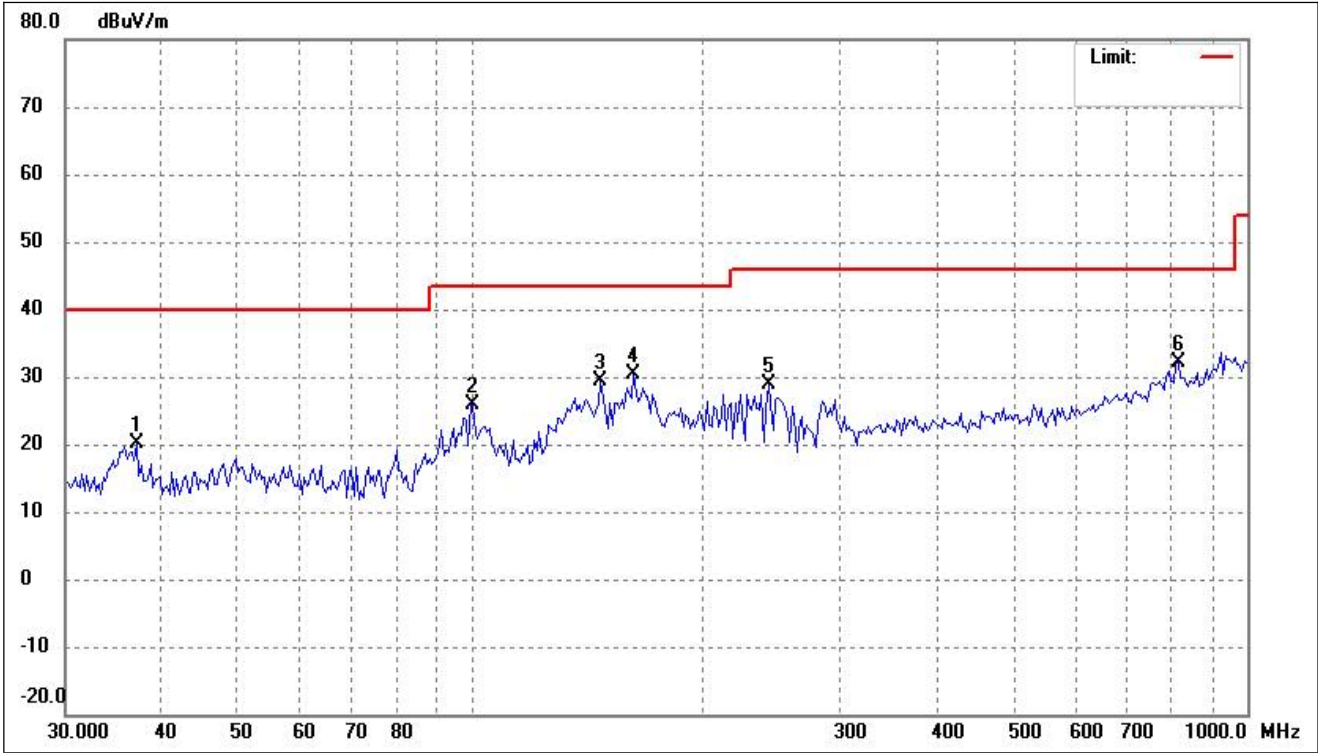
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.5112	31.79	-10.18	21.61	40.00	-18.39	-	-	peak
2	100.4712	39.43	-13.50	25.93	43.50	-17.57	-	-	peak
3	159.7586	38.50	-8.53	29.97	43.50	-13.53	-	-	peak
4	246.9901	38.55	-9.71	28.84	46.00	-17.16	-	-	peak
5	401.1050	37.25	-6.08	31.17	46.00	-14.83	-	-	peak
6	938.7139	31.49	2.72	34.21	46.00	-11.79	-	-	peak

802.11ac-VHT20			
Test Channel	5745MHz(worst case)	Polarity:	Vertical



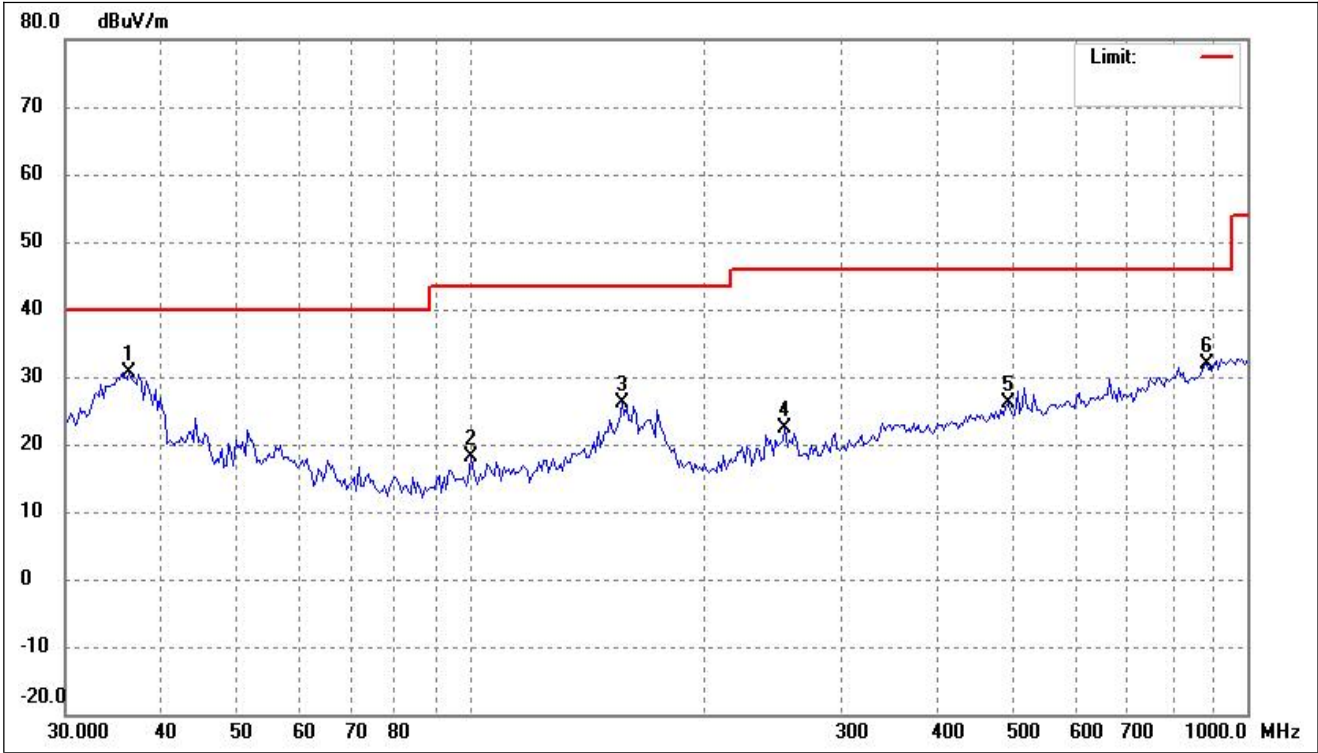
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.0139	43.73	-10.10	33.63	40.00	-6.37	-	-	peak
2	56.0708	28.92	-9.26	19.66	40.00	-20.34	-	-	peak
3	124.9249	30.90	-10.50	20.40	43.50	-23.10	-	-	peak
4	157.5290	34.32	-8.57	25.75	43.50	-17.75	-	-	peak
5	371.2679	30.96	-6.66	24.30	46.00	-21.70	-	-	peak
6	516.5651	33.47	-4.01	29.46	46.00	-16.54	-	-	peak

802.11ax-HE20			
Test Channel	5745MHz(worst case)	Polarity:	Horizontal



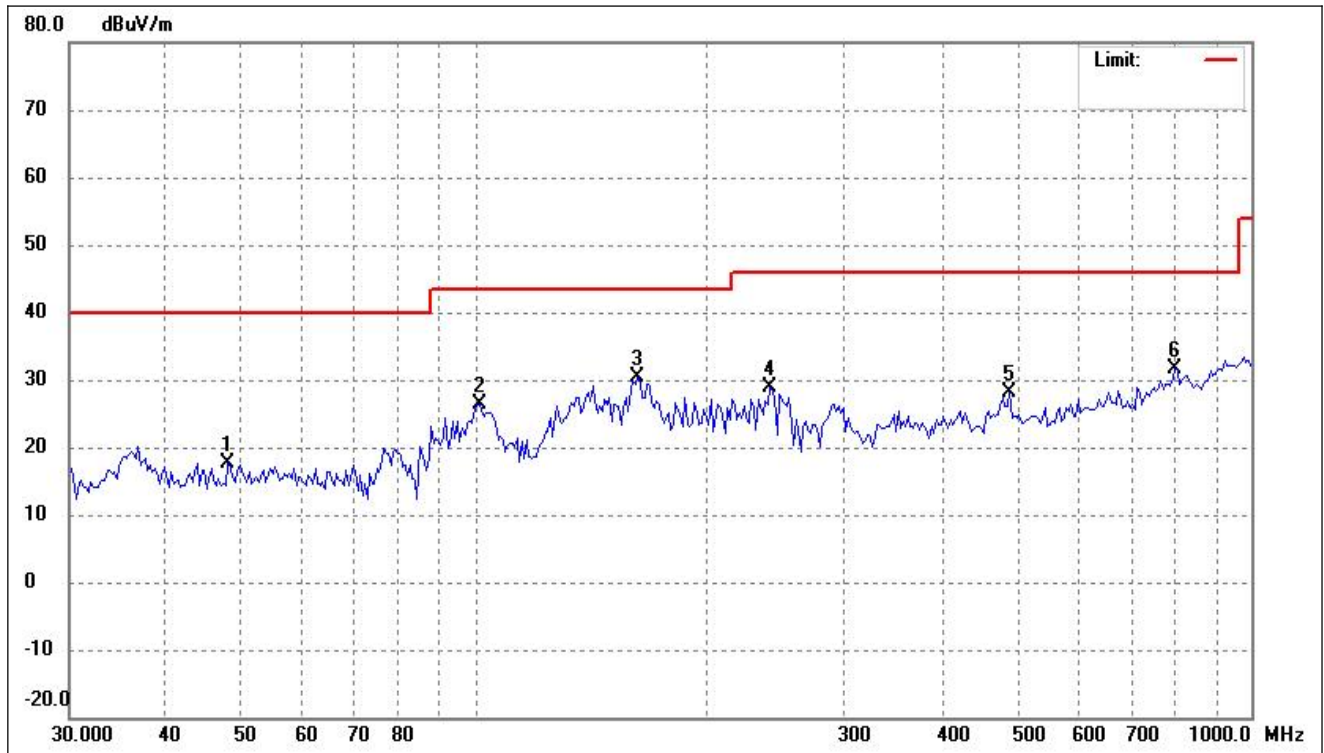
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.0405	30.18	-9.93	20.25	40.00	-19.75	-	-	peak
2	100.4712	39.46	-13.50	25.96	43.50	-17.54	-	-	peak
3	146.8392	38.50	-9.04	29.46	43.50	-14.04	-	-	peak
4	162.0197	38.99	-8.53	30.46	43.50	-13.04	-	-	peak
5	241.8377	38.84	-9.91	28.93	46.00	-17.07	-	-	peak
6	815.6352	31.13	0.99	32.12	46.00	-13.88	-	-	peak

802.11ax-HE20			
Test Channel	5745MHz(worst case)	Polarity:	Vertical



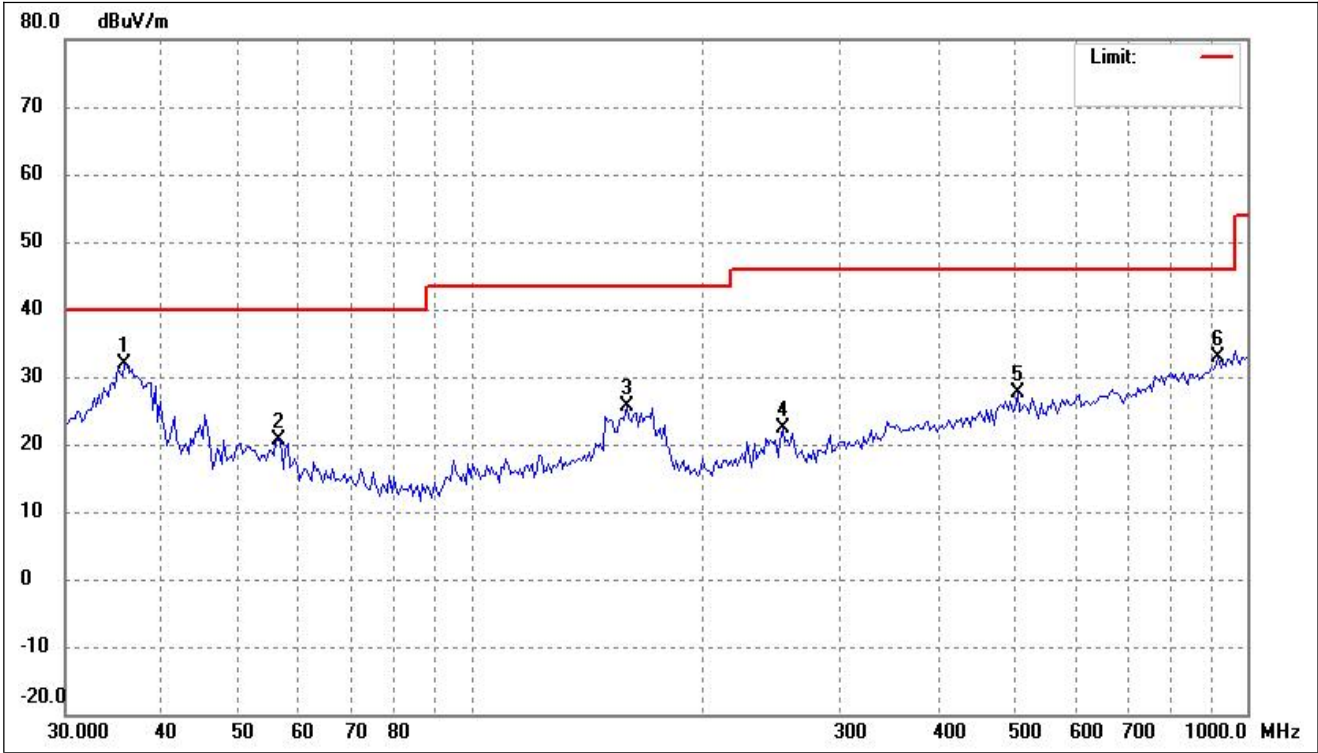
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.2678	40.80	-10.05	30.75	40.00	-9.25	-	-	peak
2	99.7676	31.70	-13.62	18.08	43.50	-25.42	-	-	peak
3	156.4259	34.66	-8.58	26.08	43.50	-17.42	-	-	peak
4	254.0312	31.84	-9.43	22.41	46.00	-23.59	-	-	peak
5	491.7700	30.53	-4.52	26.01	46.00	-19.99	-	-	peak
6	887.3978	30.19	1.70	31.89	46.00	-14.11	-	-	peak

802.11n-HT40			
Test Channel	5755MHz(worst case)	Polarity:	Horizontal



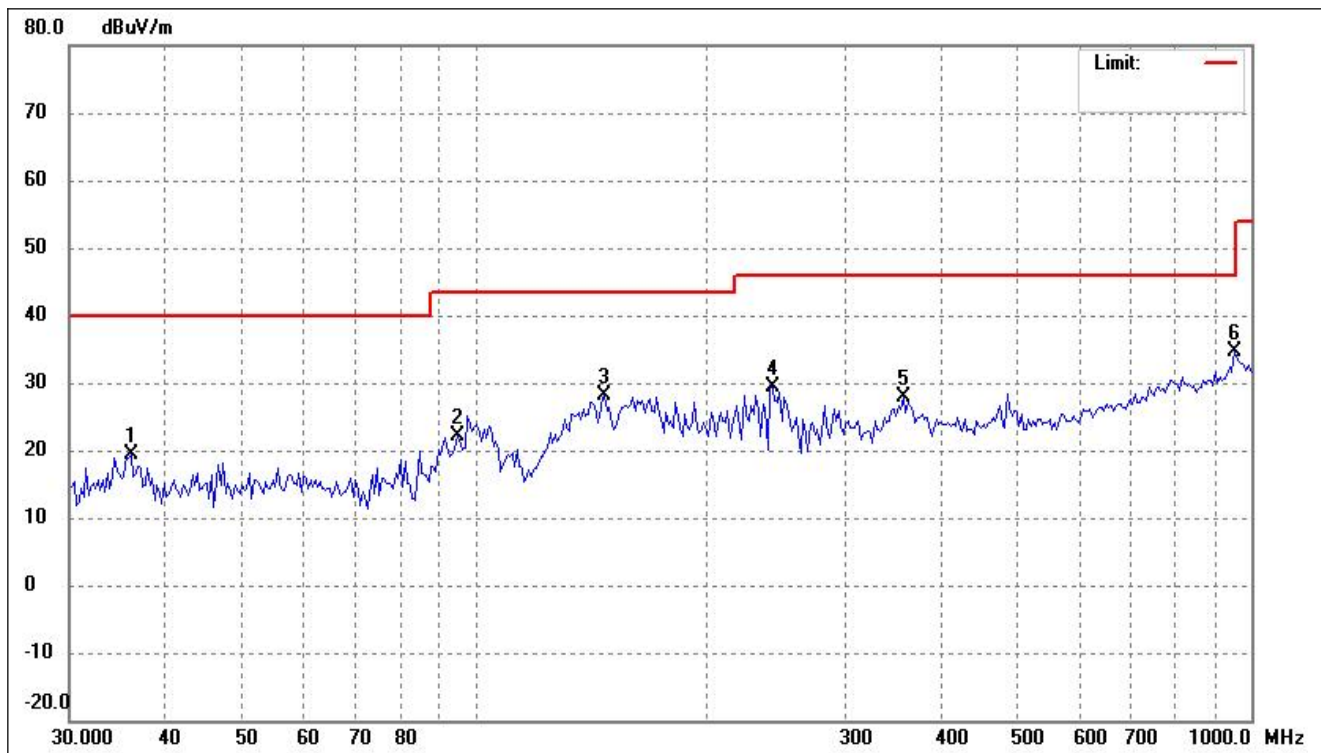
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	26.71	-9.02	17.69	40.00	-22.31	-	-	peak
2	101.1797	39.85	-13.38	26.47	43.50	-17.03	-	-	peak
3	162.0197	39.02	-8.53	30.49	43.50	-13.01	-	-	peak
4	240.1442	38.84	-9.98	28.86	46.00	-17.14	-	-	peak
5	488.3263	32.71	-4.59	28.12	46.00	-17.88	-	-	peak
6	798.6205	30.57	0.99	31.56	46.00	-14.44	-	-	peak

802.11n-HT40			
Test Channel	5755MHz(worst case)	Polarity:	Vertical



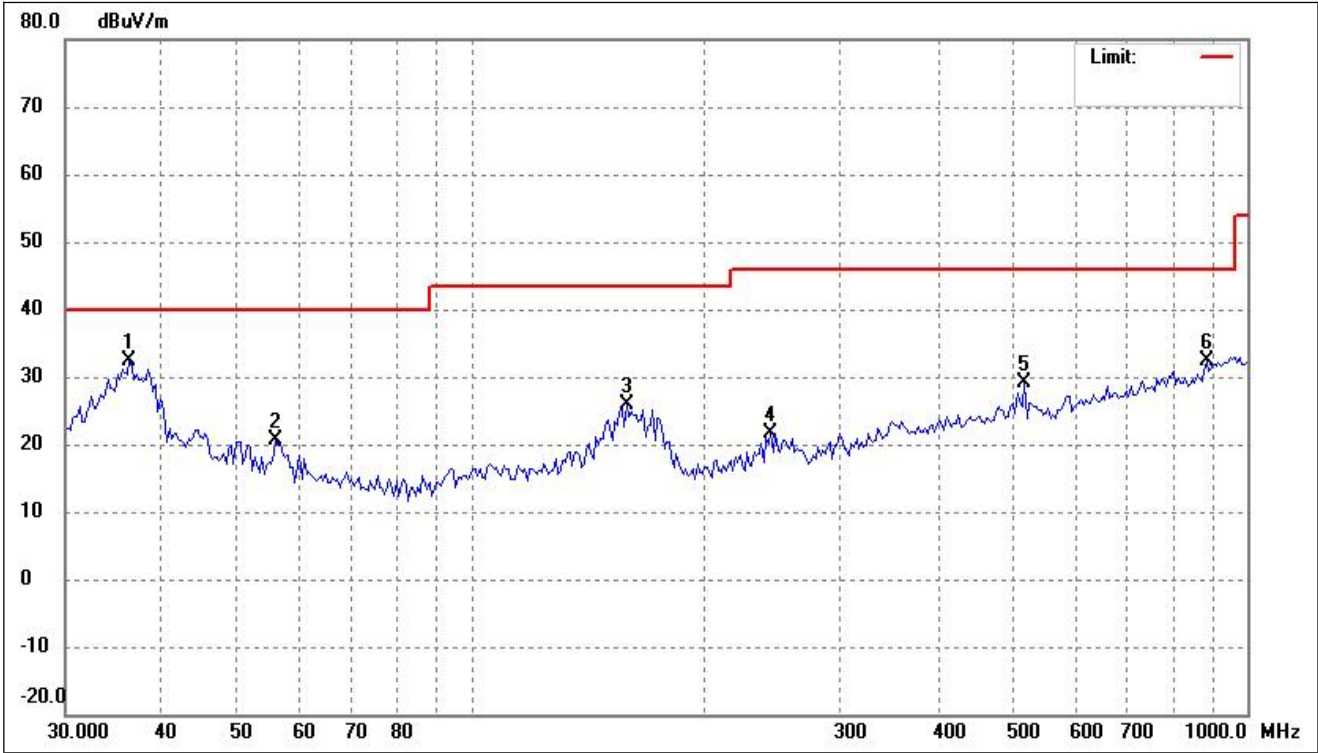
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.7617	42.11	-10.13	31.98	40.00	-8.02	-	-	peak
2	56.4662	29.96	-9.28	20.68	40.00	-19.32	-	-	peak
3	158.6399	34.11	-8.56	25.55	43.50	-17.95	-	-	peak
4	252.2523	31.76	-9.50	22.26	46.00	-23.74	-	-	peak
5	505.7891	31.92	-4.23	27.69	46.00	-18.31	-	-	peak
6	919.1315	30.47	2.33	32.80	46.00	-13.20	-	-	peak

802.11ac-VHT40			
Test Channel	5755MHz(worst case)	Polarity:	Horizontal



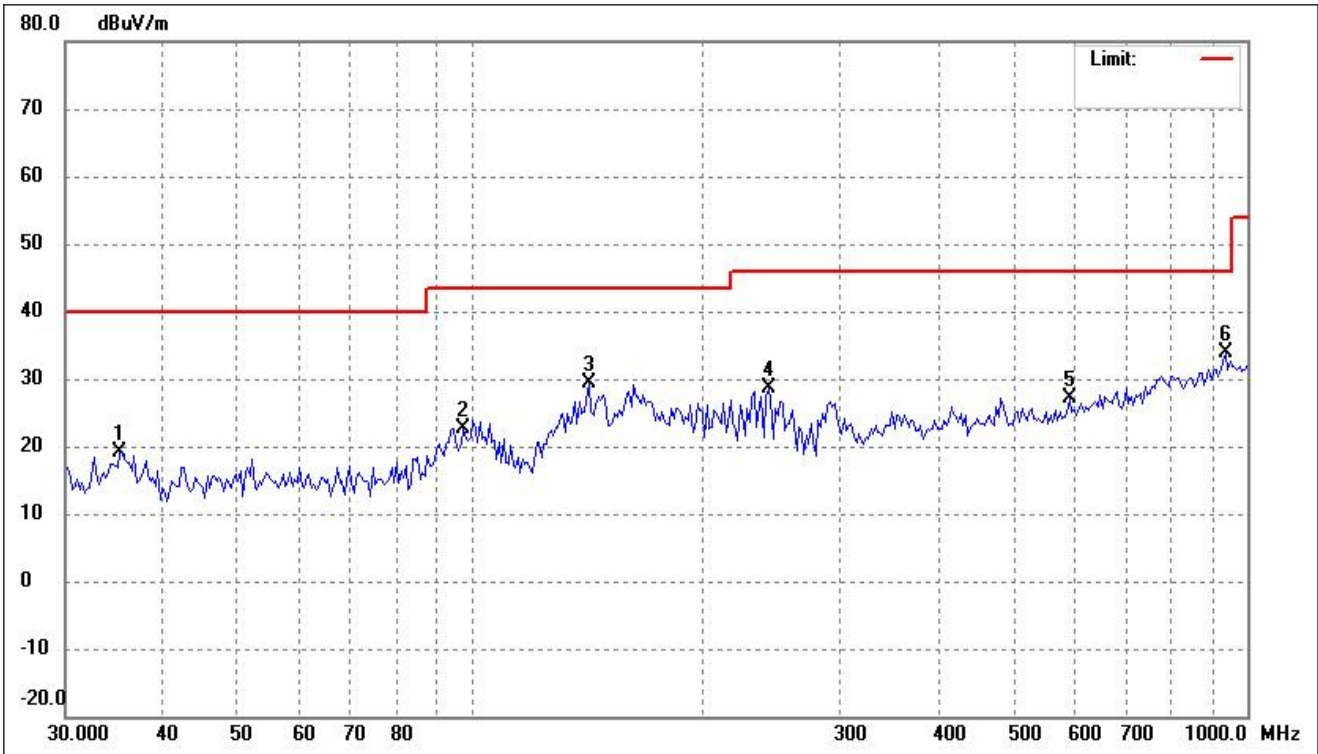
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.0139	29.38	-10.10	19.28	40.00	-20.72	-	-	peak
2	94.9788	36.29	-14.28	22.01	43.50	-21.49	-	-	peak
3	146.8392	37.13	-9.04	28.09	43.50	-15.41	-	-	peak
4	241.8377	39.26	-9.91	29.35	46.00	-16.65	-	-	peak
5	355.9397	34.68	-6.92	27.76	46.00	-18.24	-	-	peak
6	952.0001	31.57	2.95	34.52	46.00	-11.48	-	-	peak

802.11ac-VHT40			
Test Channel	5755MHz(worst case)	Polarity:	Vertical



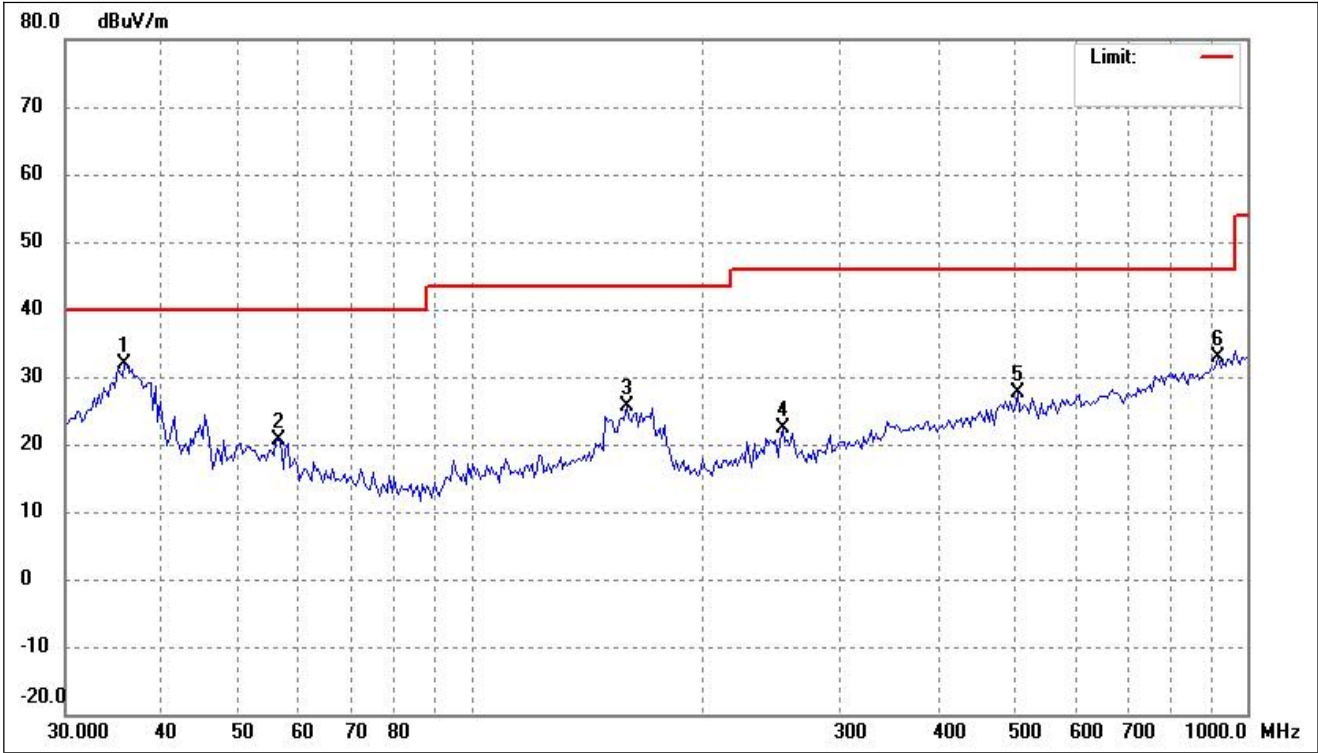
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.2678	42.45	-10.05	32.40	40.00	-7.60	-	-	peak
2	56.0708	29.96	-9.26	20.70	40.00	-19.30	-	-	peak
3	158.6399	34.35	-8.56	25.79	43.50	-17.71	-	-	peak
4	243.5431	31.46	-9.83	21.63	46.00	-24.37	-	-	peak
5	516.5651	33.19	-4.01	29.18	46.00	-16.82	-	-	peak
6	887.3978	30.65	1.70	32.35	46.00	-13.65	-	-	peak

802.11ax-HE40			
Test Channel	5755MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.2626	29.37	-10.21	19.16	40.00	-20.84	-	-	peak
2	97.6864	36.48	-13.92	22.56	43.50	-20.94	-	-	peak
3	141.7694	38.52	-9.23	29.29	43.50	-14.21	-	-	peak
4	241.8377	38.50	-9.91	28.59	46.00	-17.41	-	-	peak
5	590.3511	29.56	-2.36	27.20	46.00	-18.80	-	-	peak
6	938.7139	31.10	2.72	33.82	46.00	-12.18	-	-	peak

802.11ax-HE40			
Test Channel	5755MHz(worst case)	Polarity:	Vertical

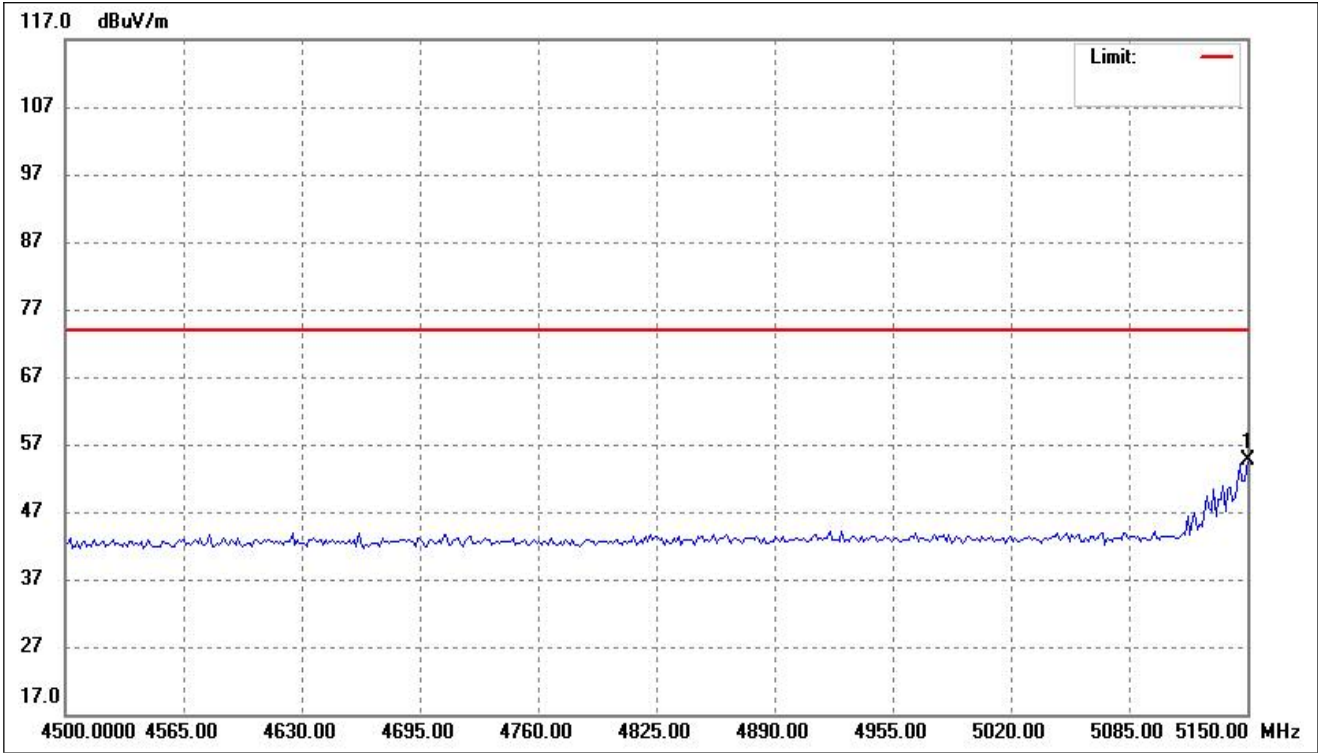


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.0139	43.32	-10.10	33.22	40.00	-6.78	-	-	peak
2	155.3305	34.21	-8.62	25.59	43.50	-17.91	-	-	peak
3	236.7928	33.19	-10.18	23.01	46.00	-22.99	-	-	peak
4	355.9397	29.98	-6.92	23.06	46.00	-22.94	-	-	peak
5	516.5651	30.82	-4.01	26.81	46.00	-19.19	-	-	peak
6	862.8015	30.09	1.21	31.30	46.00	-14.70	-	-	peak

Remark: ‘-’Means’ the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

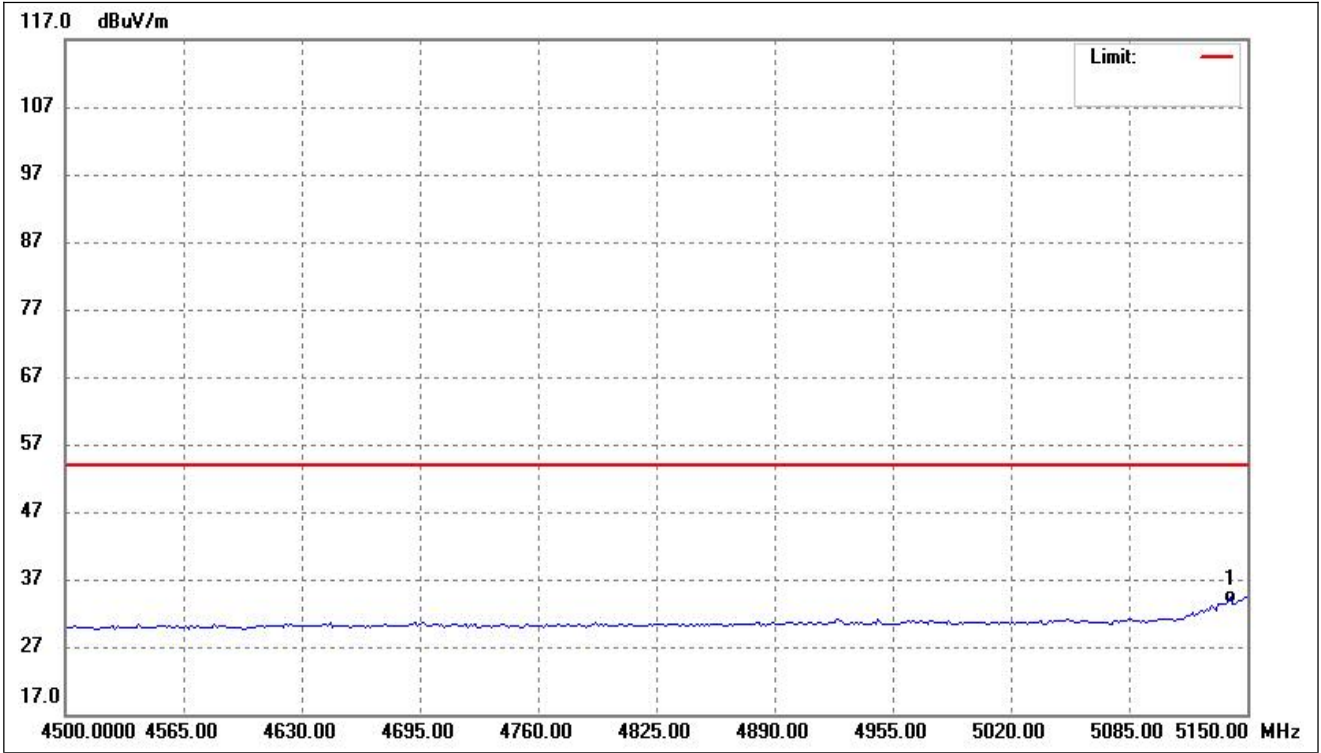
➤ Spurious Emission above 1GHz

802.11a- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



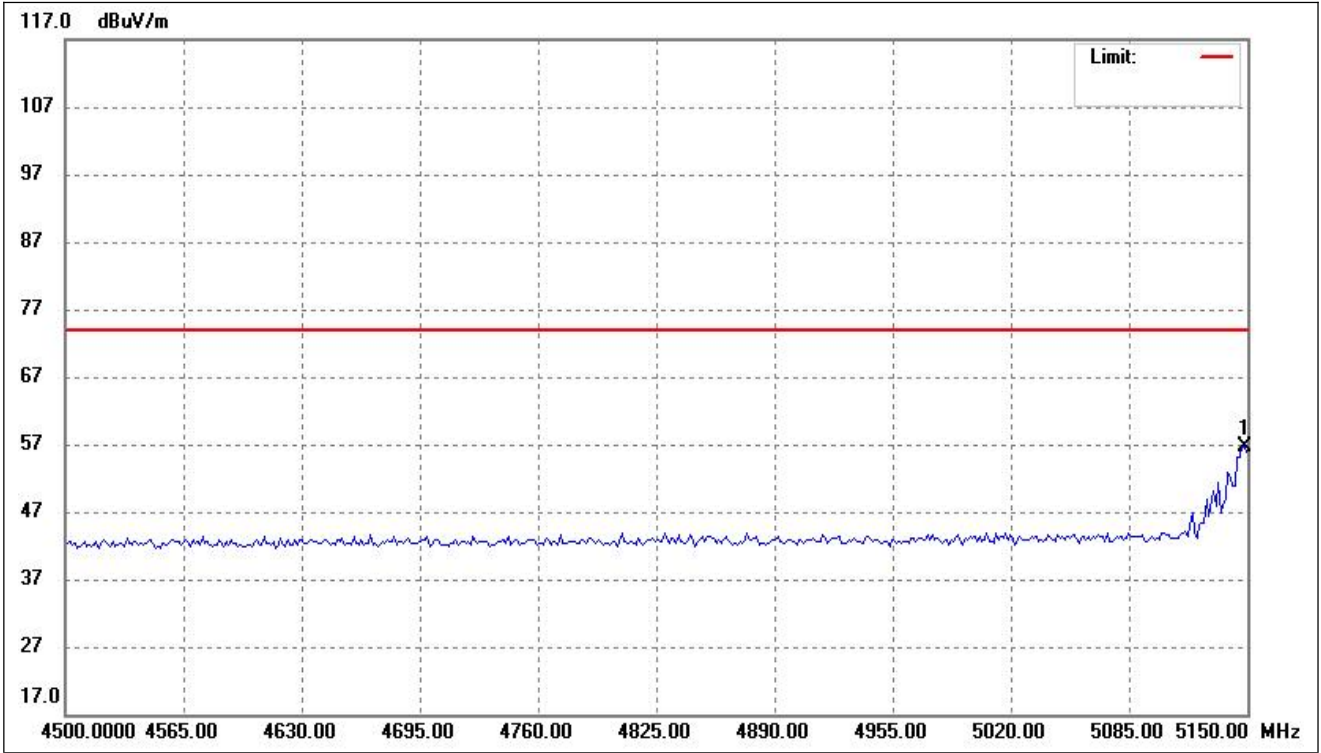
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	66.74	-12.21	54.53	74.00	-19.47	-	-	peak

802.11a- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5140.882	46.58	-12.26	34.32	54.00	-19.68	-	-	AVG

802.11n-HT20- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



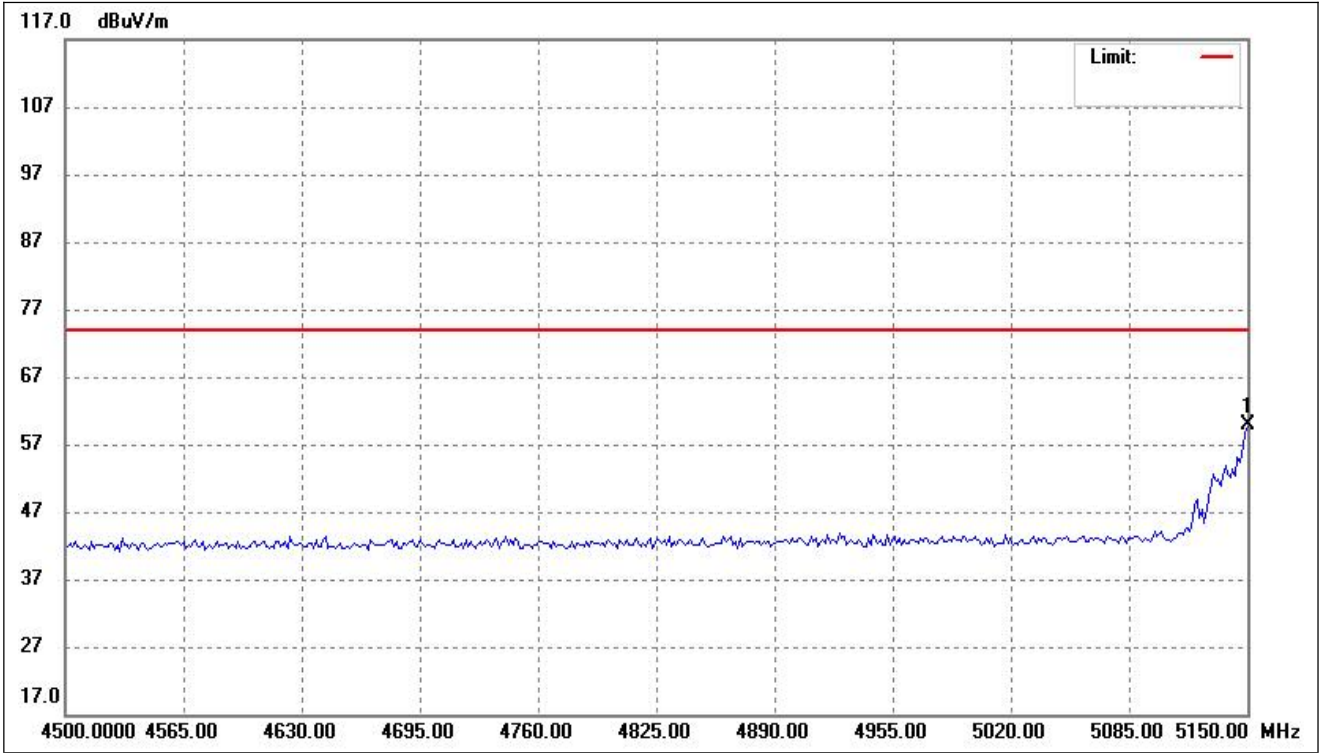
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5148.697	68.88	-12.22	56.66	74.00	-17.34	-	-	peak

802.11n-HT20- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



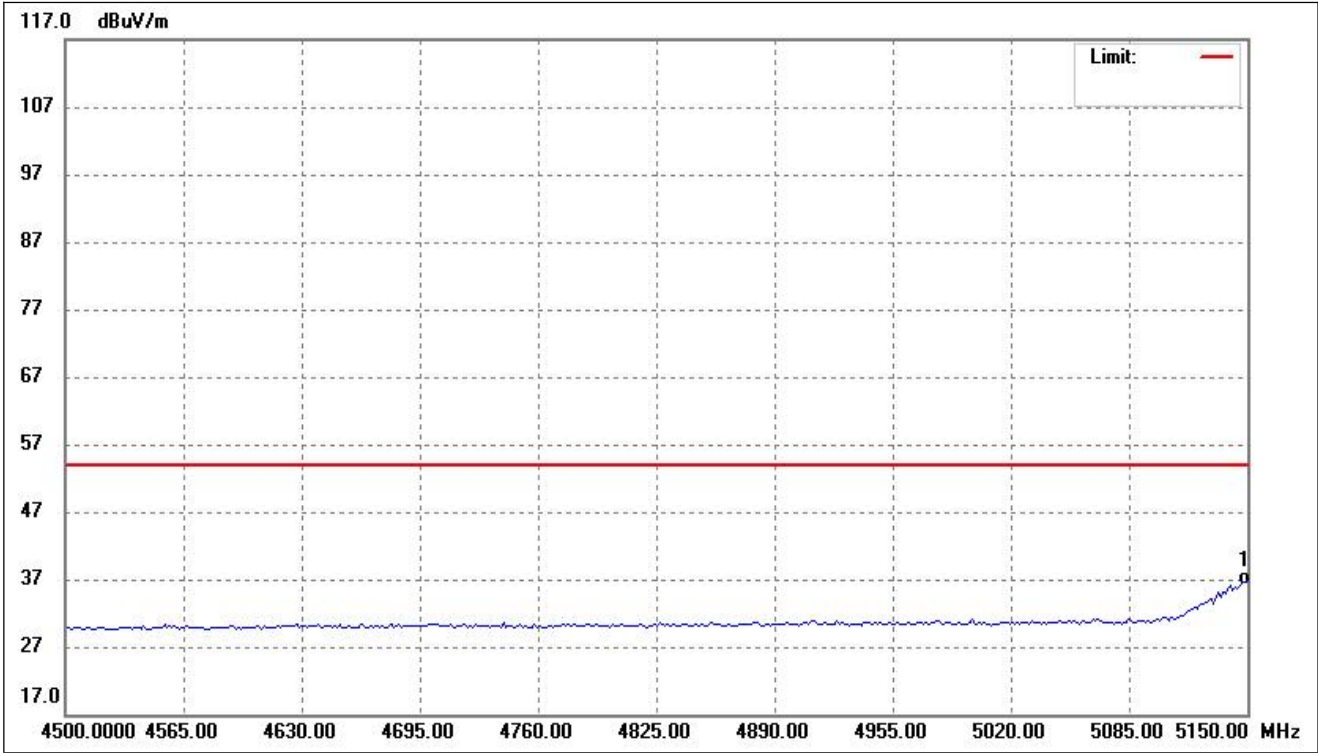
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5147.395	46.96	-12.23	34.73	54.00	-19.27	-	-	AVG

802.11ac-VHT20- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



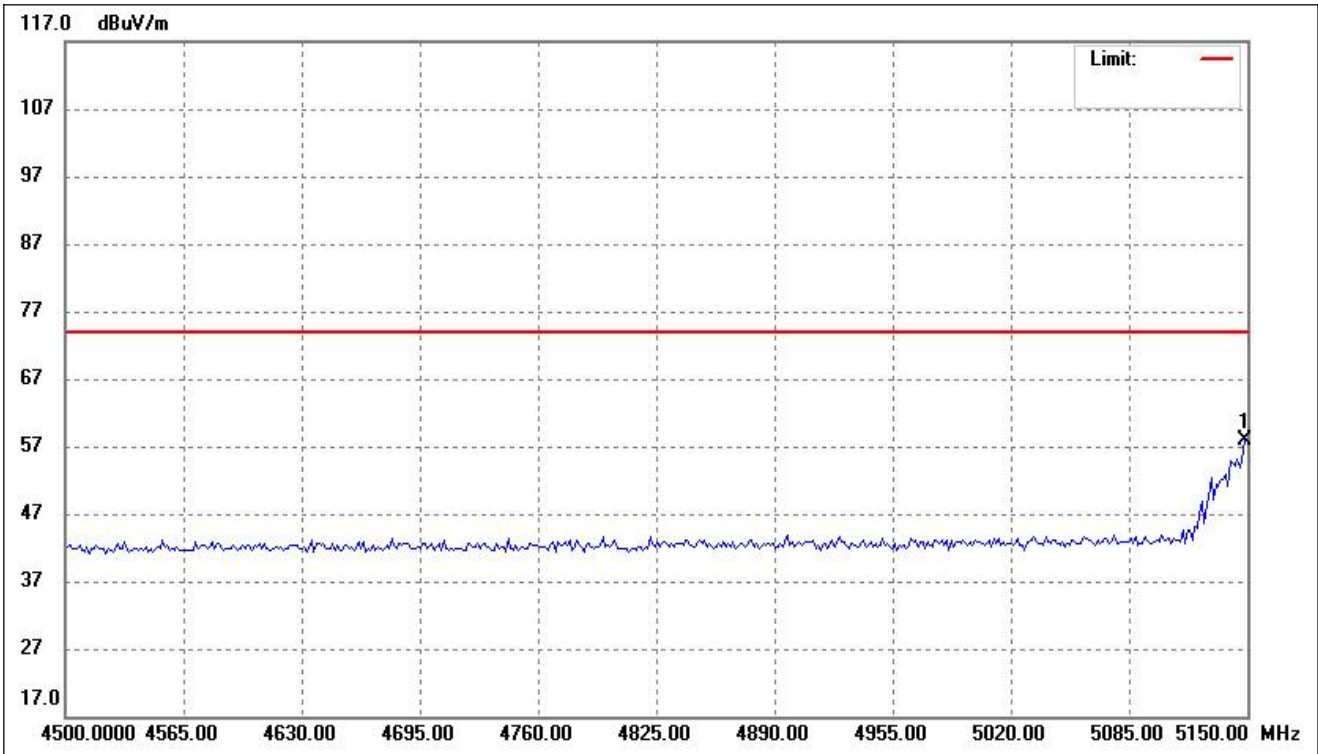
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	72.03	-12.21	59.82	74.00	-14.18	-	-	peak

802.11ac-VHT20- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



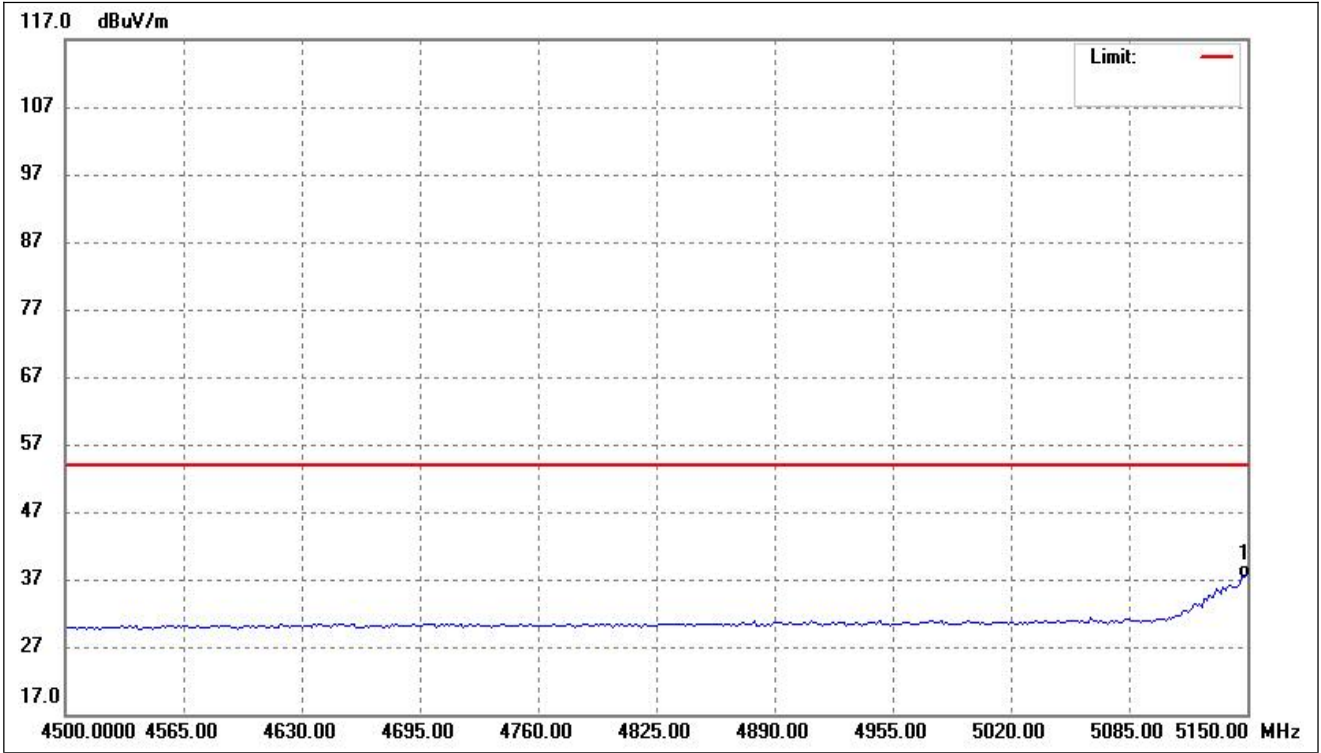
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	49.38	-12.21	37.17	54.00	-16.83	-	-	AVG

802.11ax-HE20- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



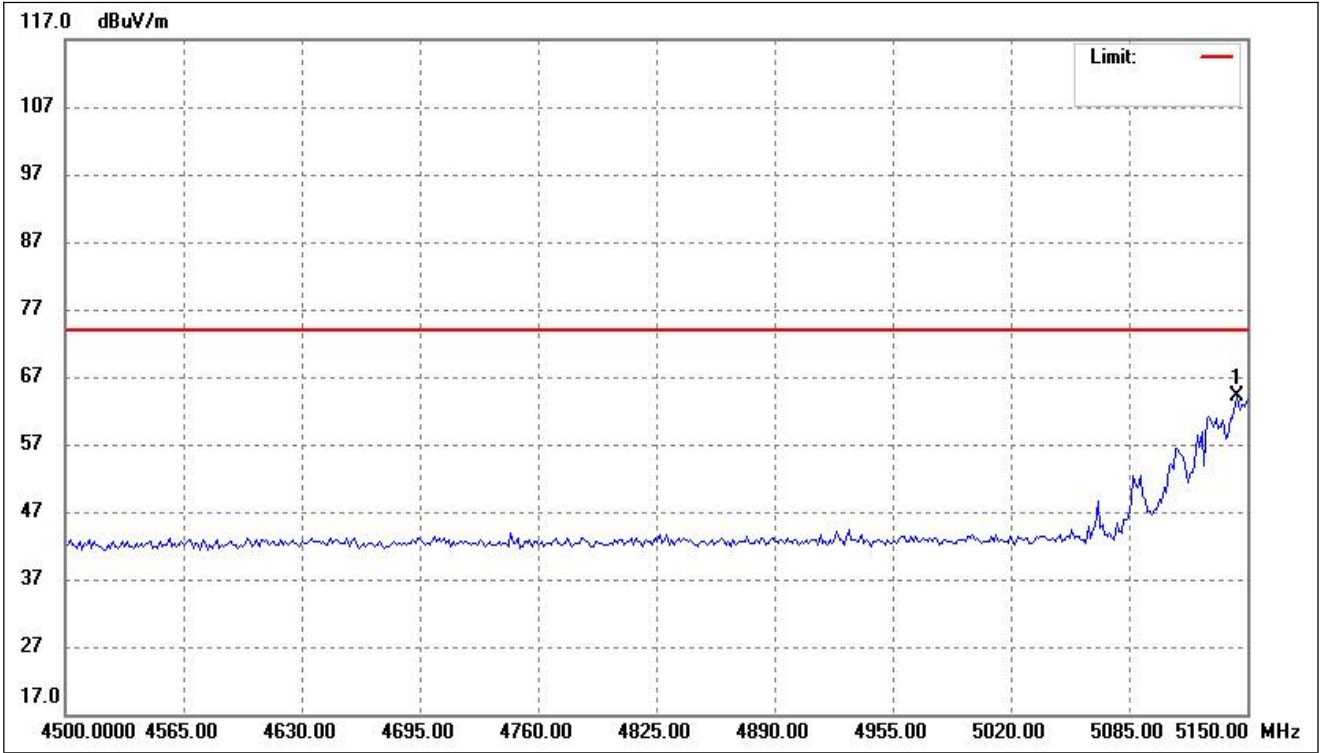
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5148.697	70.08	-12.22	57.86	74.00	-16.14	-	-	peak

802.11ax-HE20- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



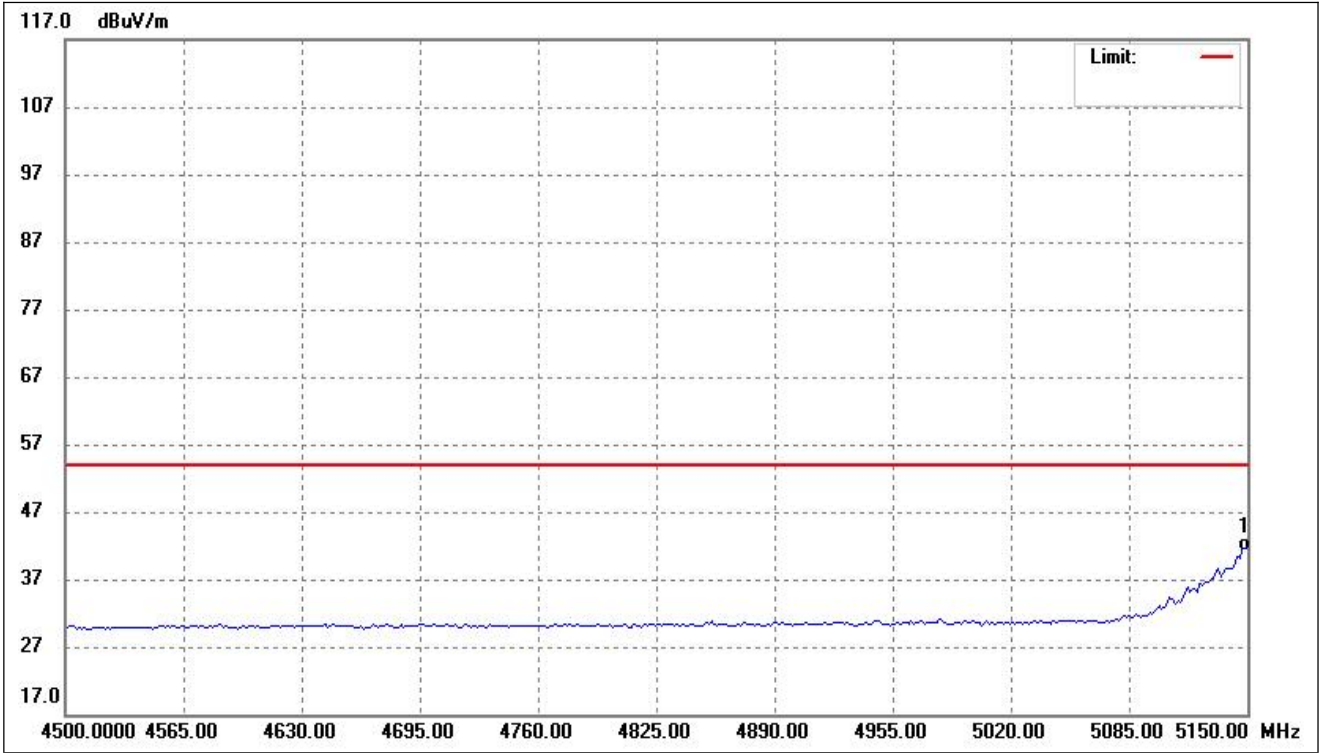
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	50.29	-12.21	38.08	54.00	-15.92	-	-	AVG

802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



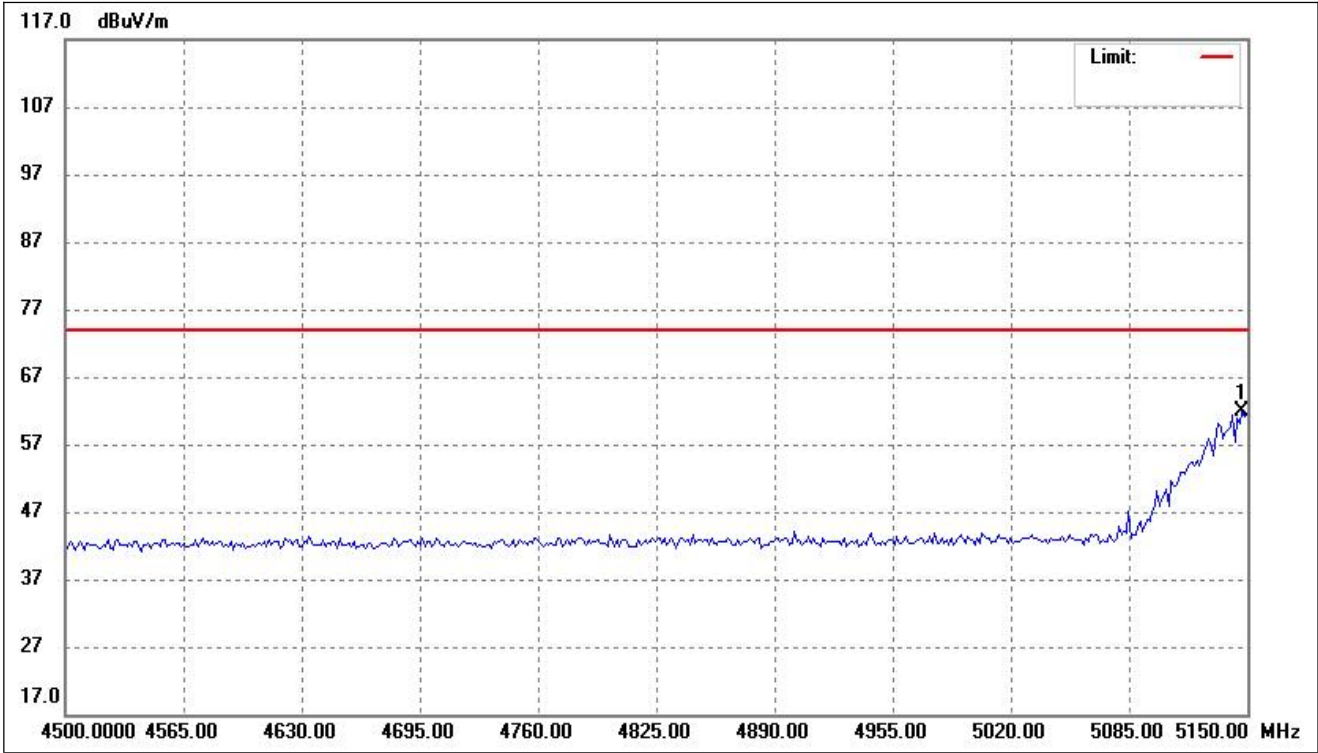
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5144.790	76.45	-12.25	64.20	74.00	-9.80	-	-	peak

802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



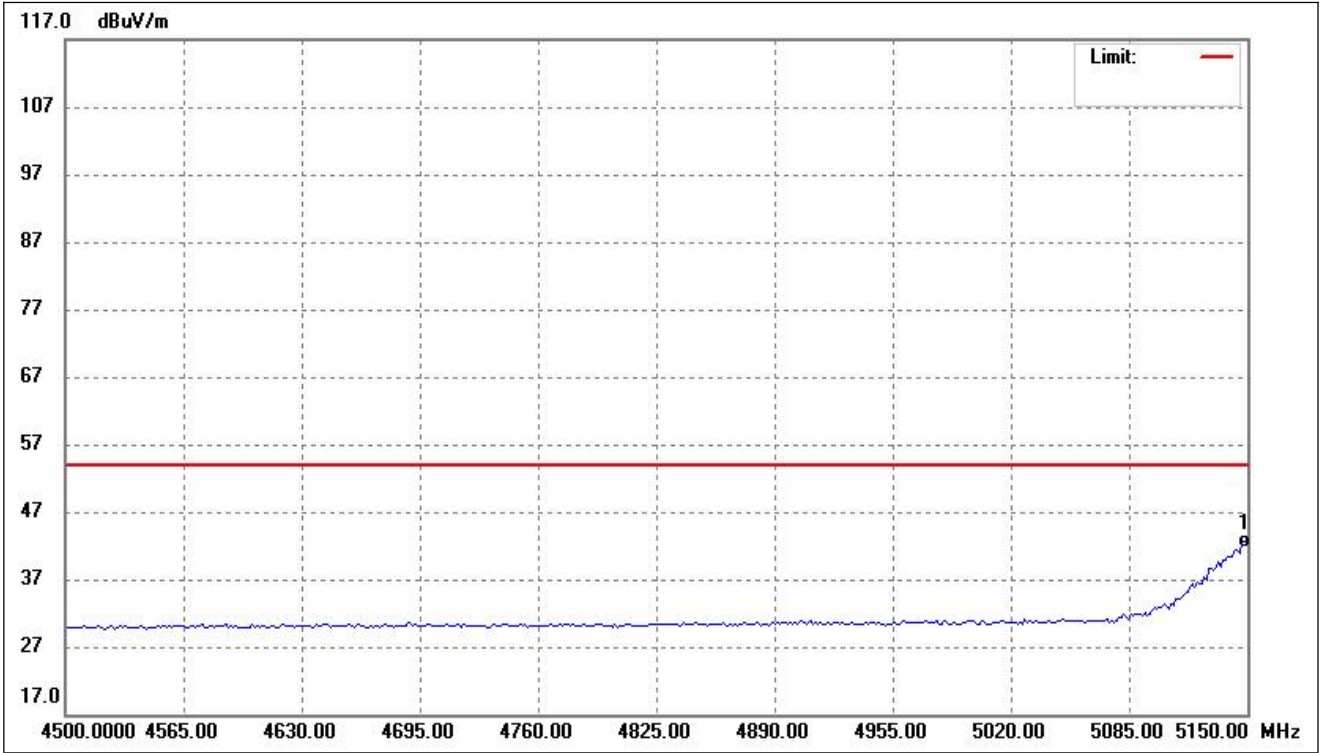
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	54.42	-12.21	42.21	54.00	-11.79	-	-	AVG

802.11ac-VHT40- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



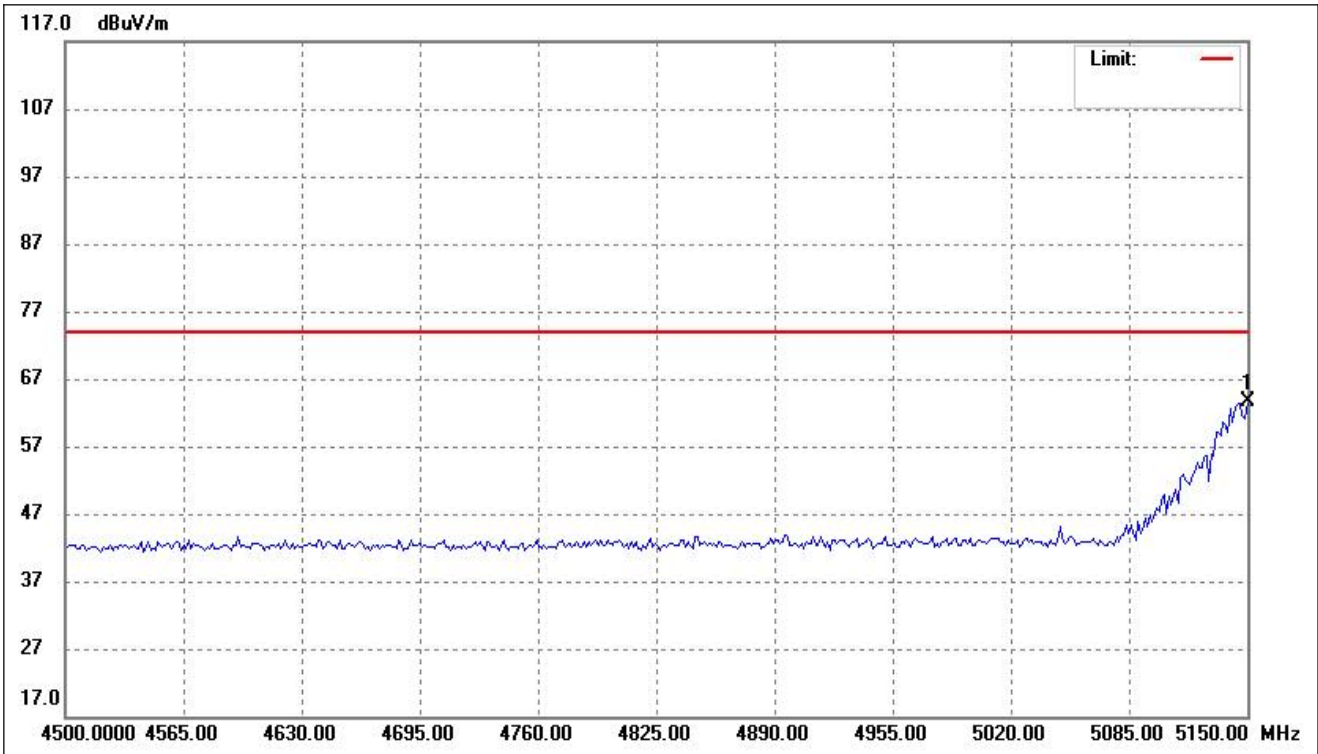
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5147.395	74.23	-12.23	62.00	74.00	-12.00	-	-	peak

802.11ac-VHT40- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



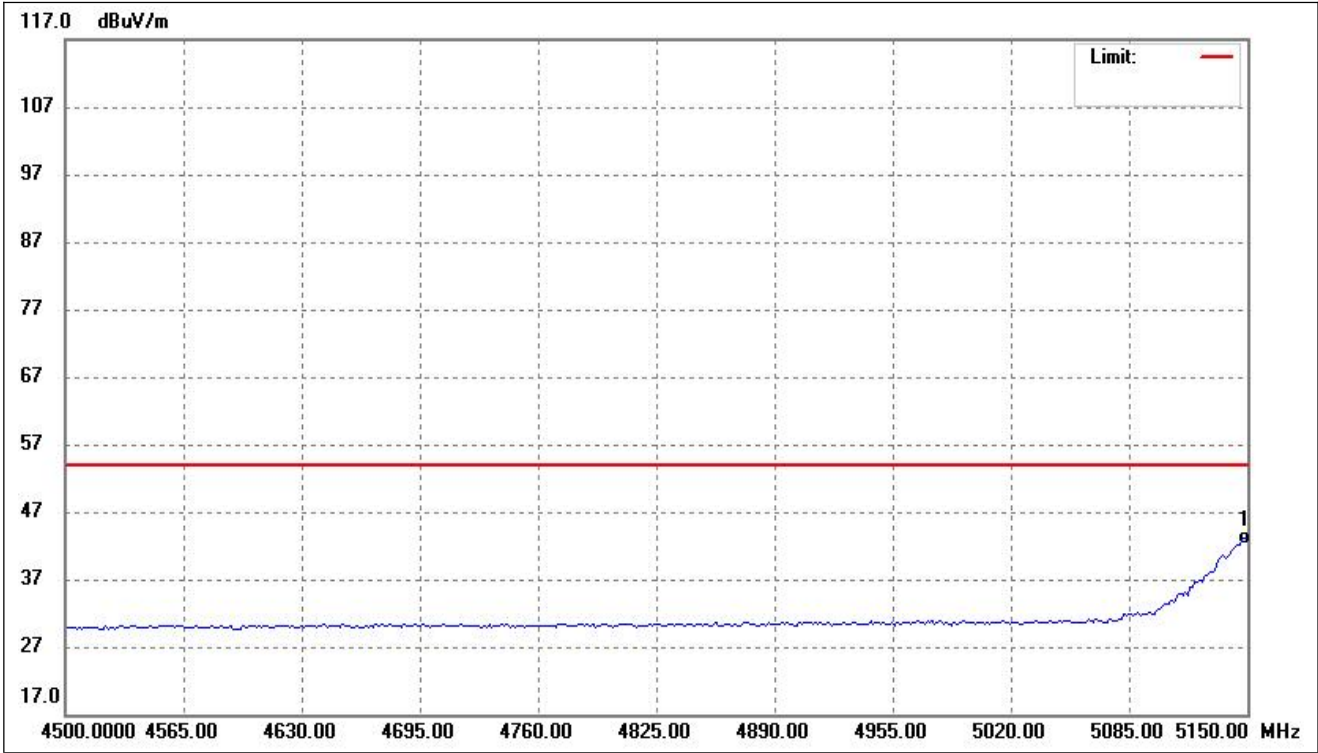
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	54.90	-12.21	42.69	54.00	-11.31	-	-	AVG

802.11ax-HE40- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



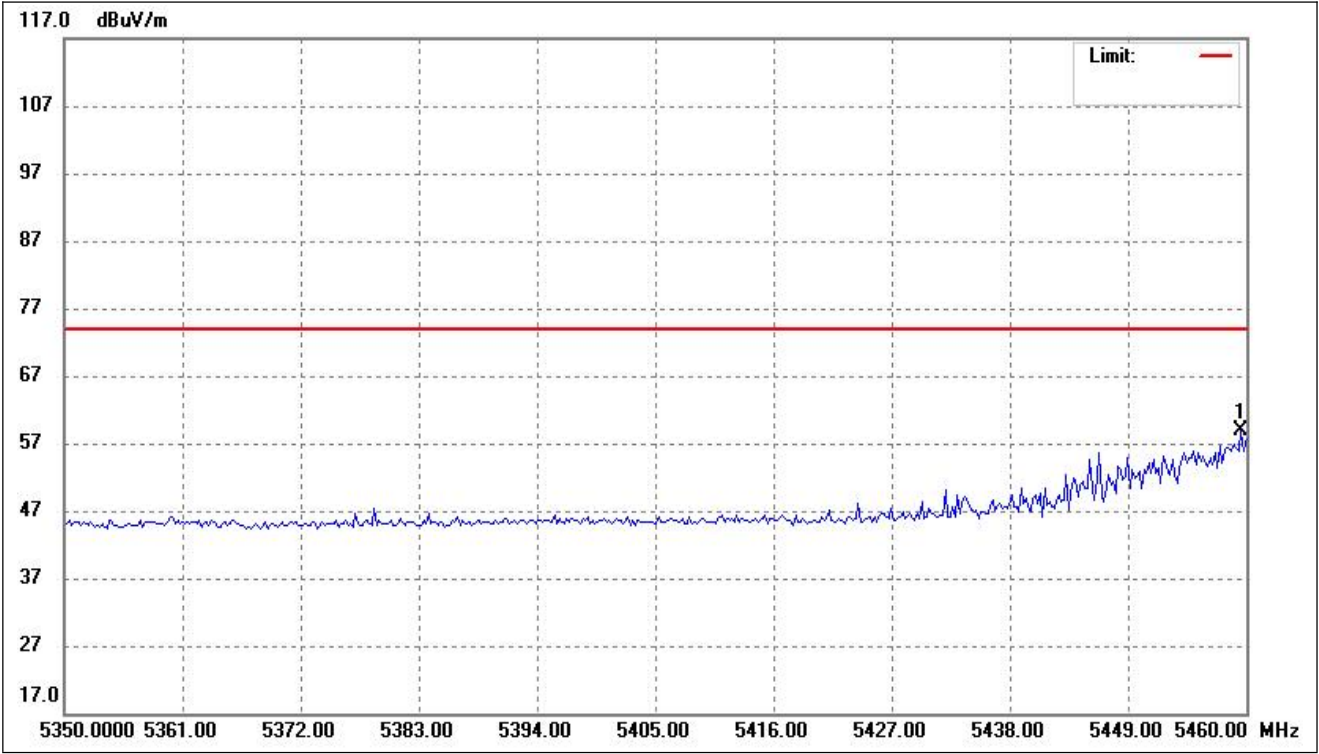
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	75.78	-12.21	63.57	74.00	-10.43	-	-	peak

802.11ax-HE40- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



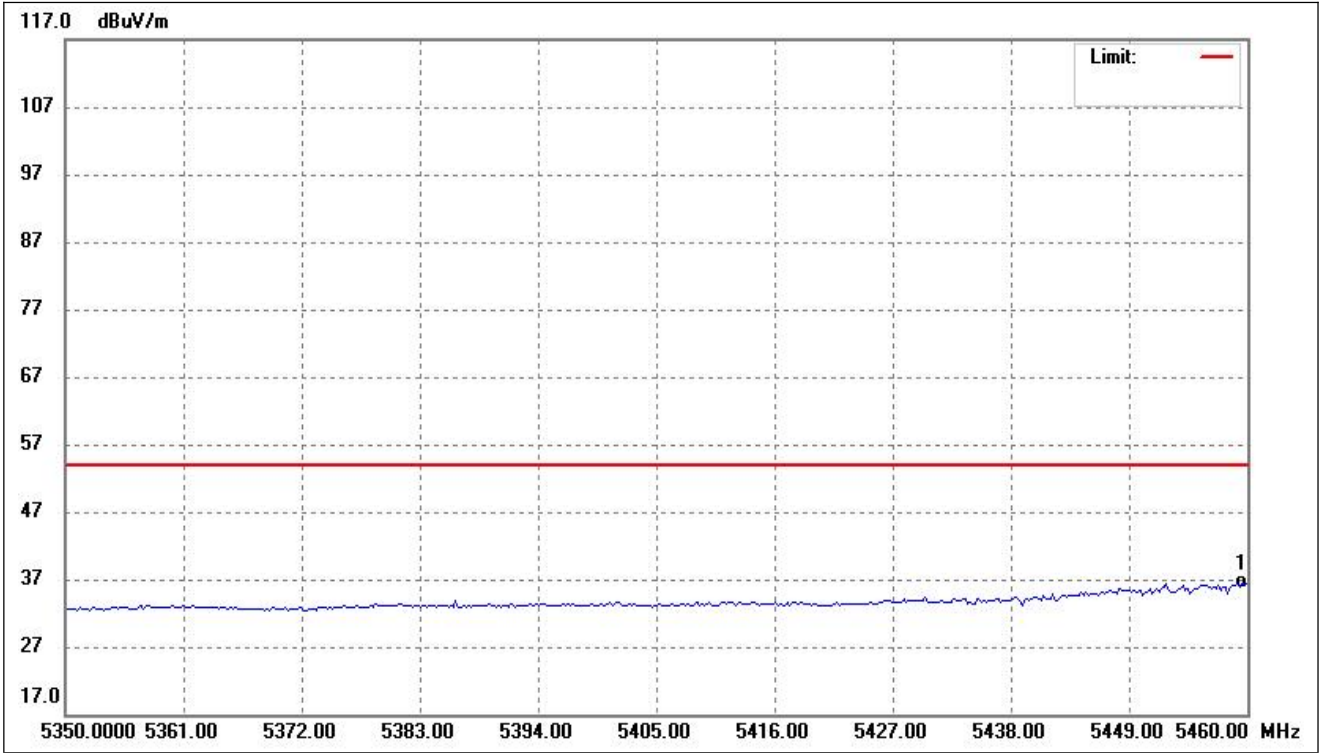
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5148.697	55.30	-12.22	43.08	54.00	-10.92	-	-	AVG

802.11a- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5459.559	69.45	-10.61	58.84	74.00	-15.16	-	-	peak

802.11a- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



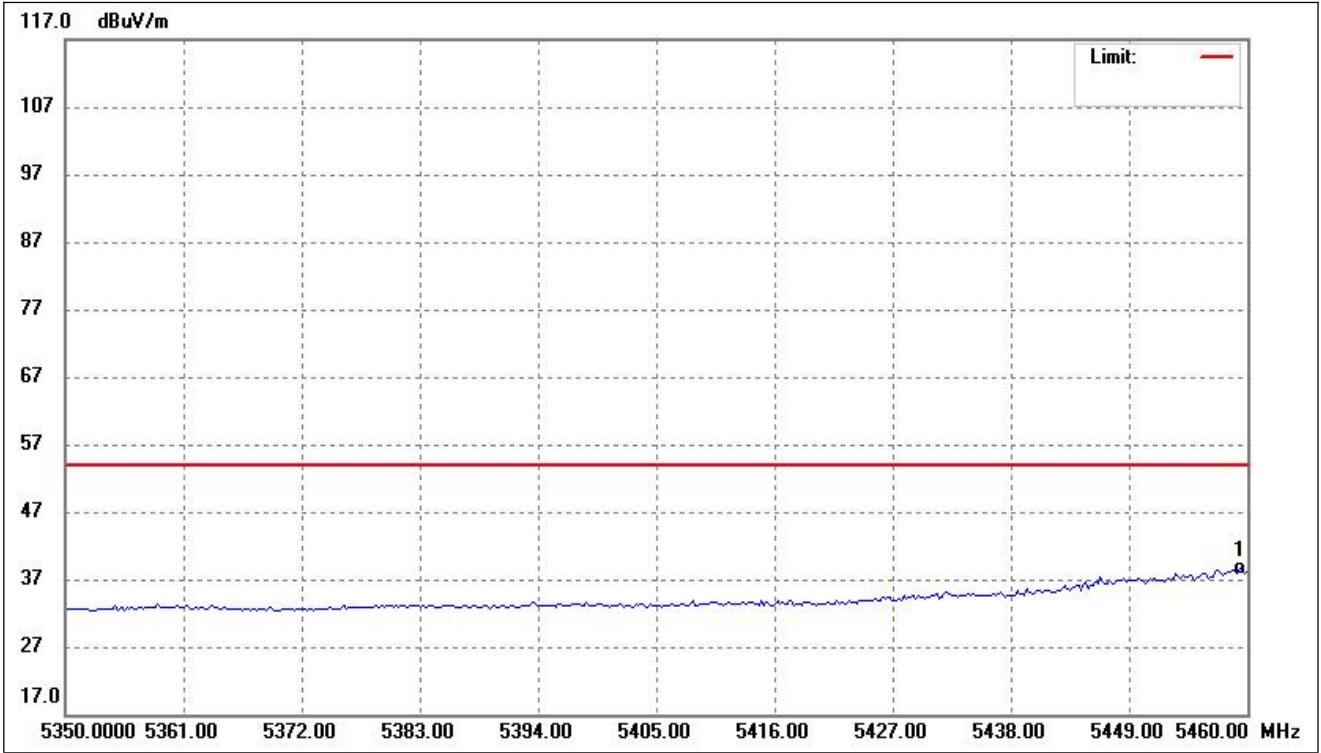
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5460.000	47.31	-10.61	36.70	54.00	-17.30	-	-	AVG

802.11n-HT20- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



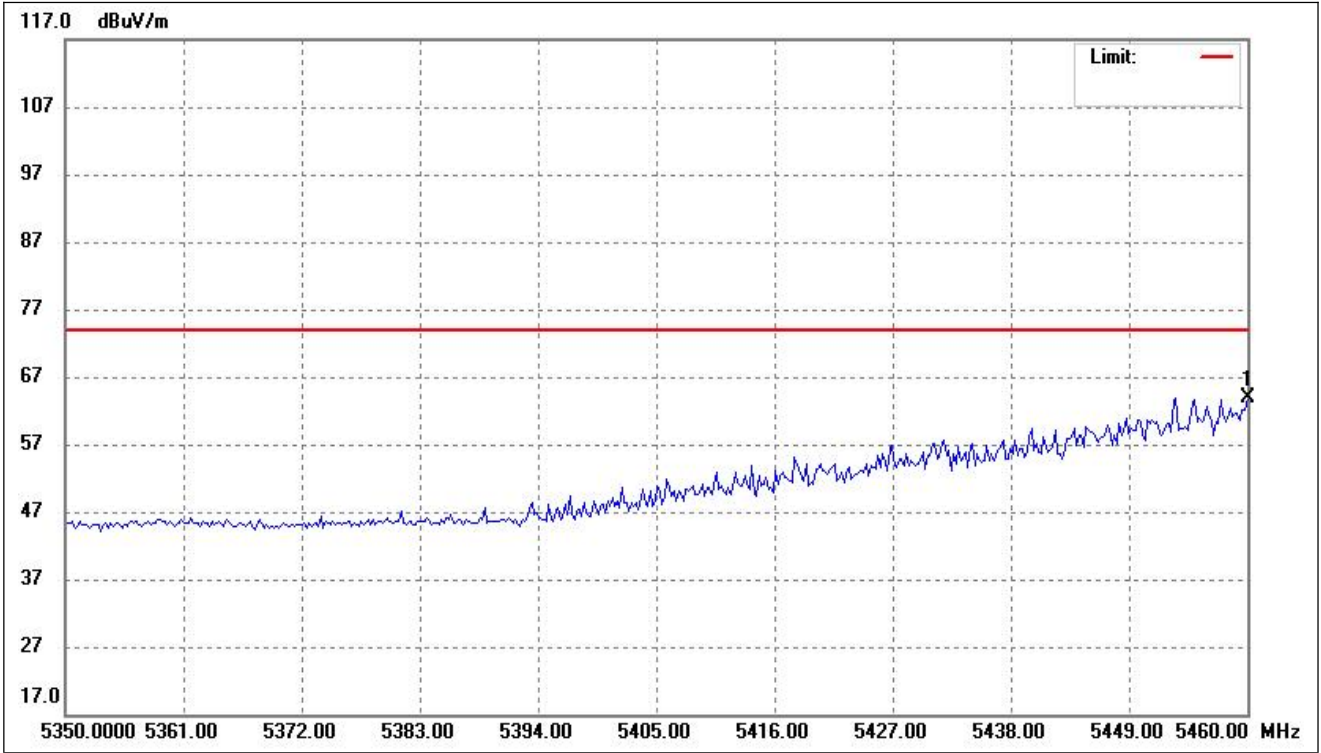
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5460.000	70.30	-10.61	59.69	74.00	-14.31	-	-	peak

802.11n-HT20- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



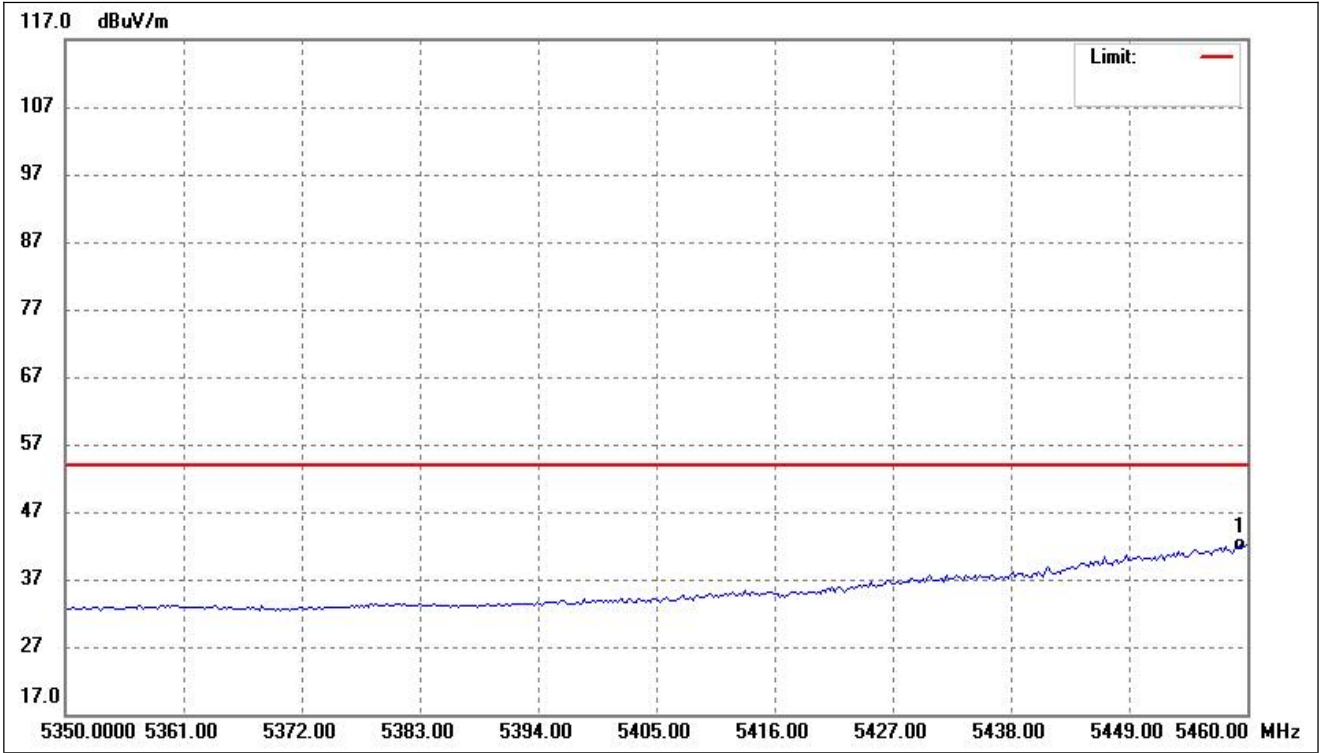
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5459.339	49.17	-10.61	38.56	54.00	-15.44	-	-	AVG

802.11ac-VHT20- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



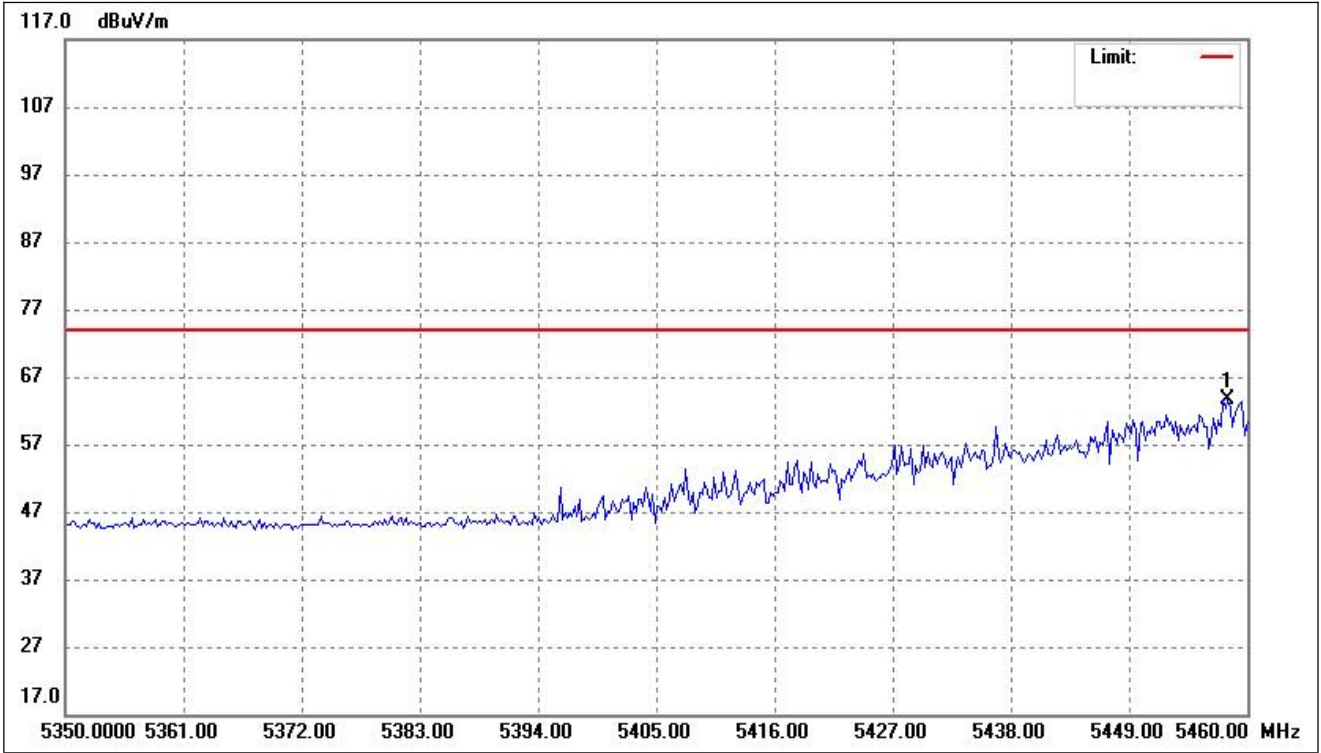
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5460.000	74.55	-10.61	63.94	74.00	-10.06	-	-	peak

802.11ac-VHT20- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



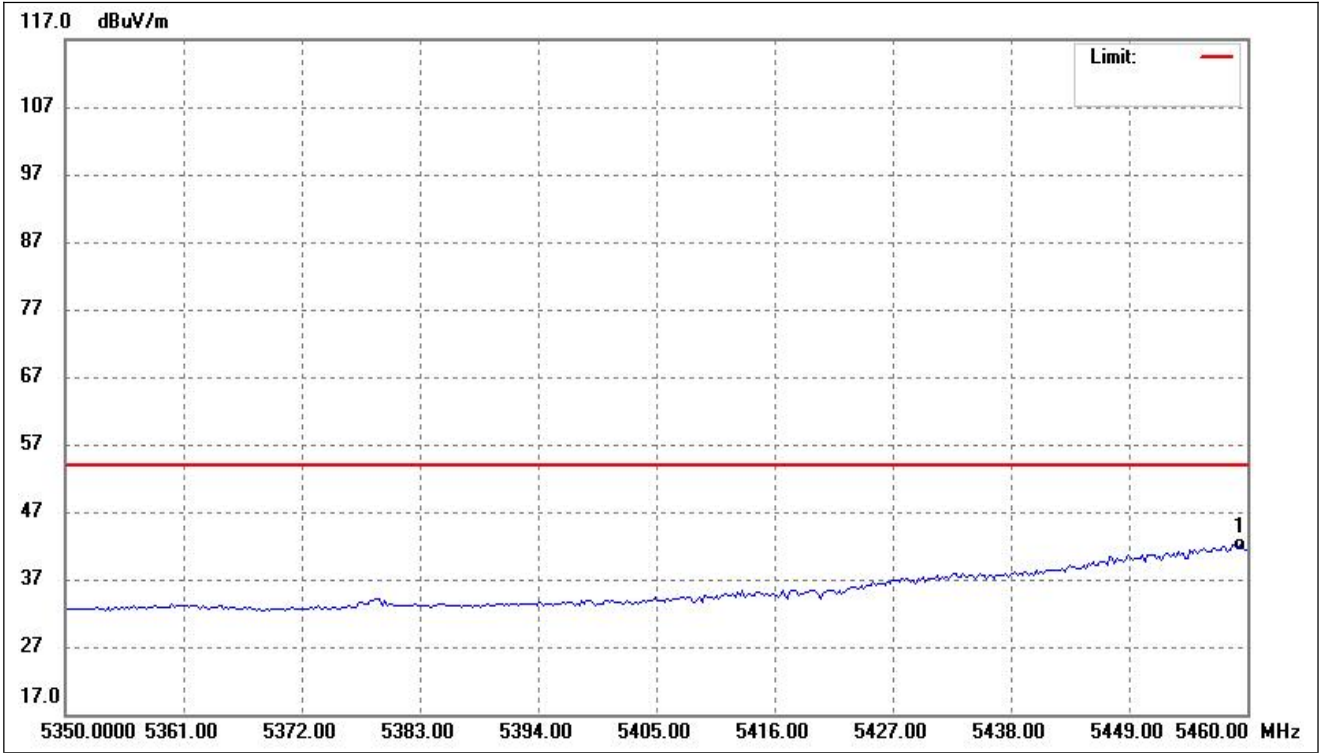
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5459.339	52.79	-10.61	42.18	54.00	-11.82	-	-	AVG

802.11ax-HE20- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



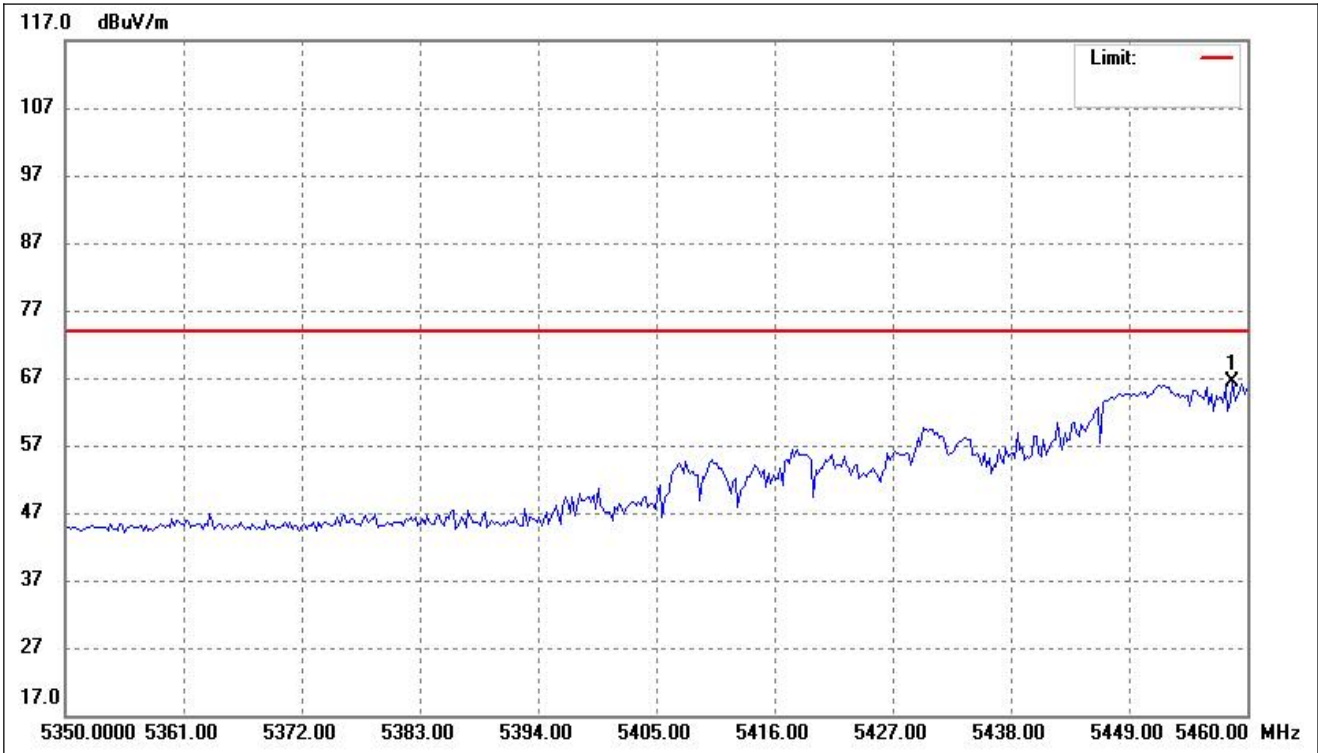
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5458.236	74.33	-10.62	63.71	74.00	-10.29	-	-	peak

802.11ax-HE20- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



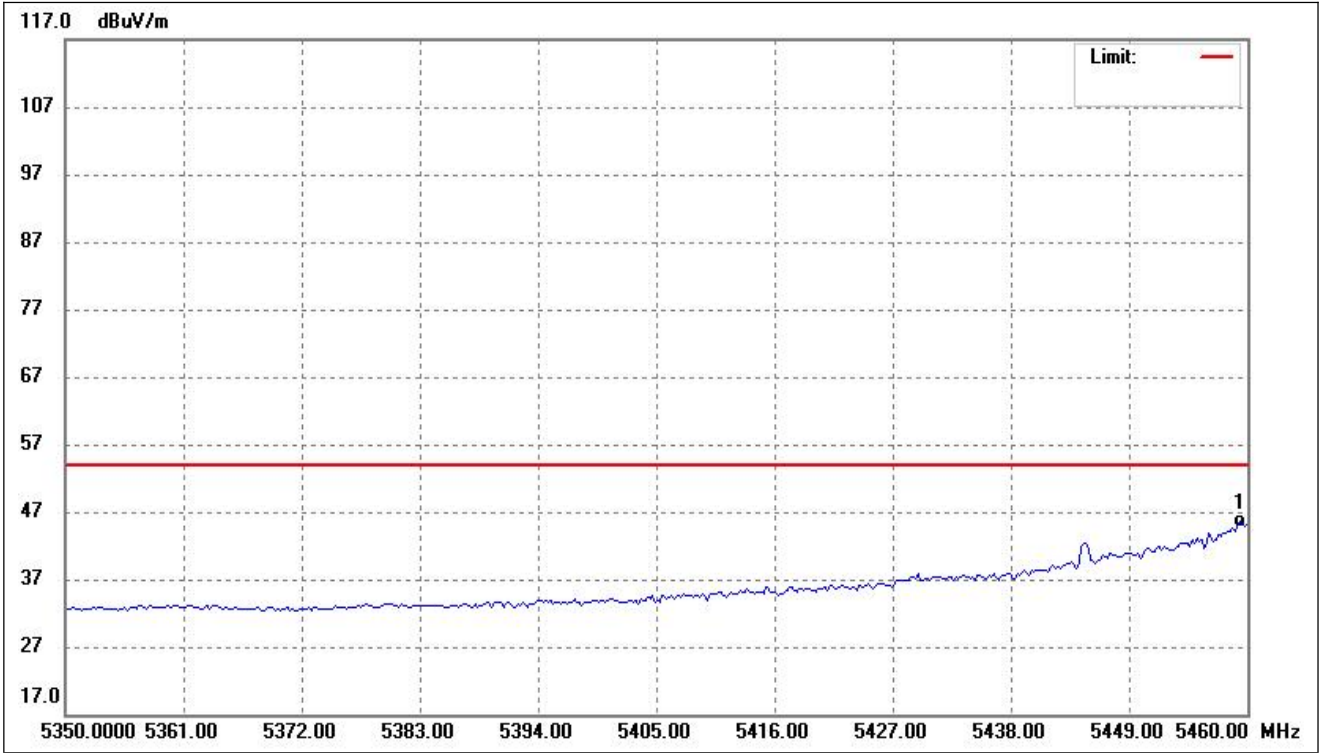
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5459.339	52.79	-10.61	42.18	54.00	-11.82	-	-	AVG

802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



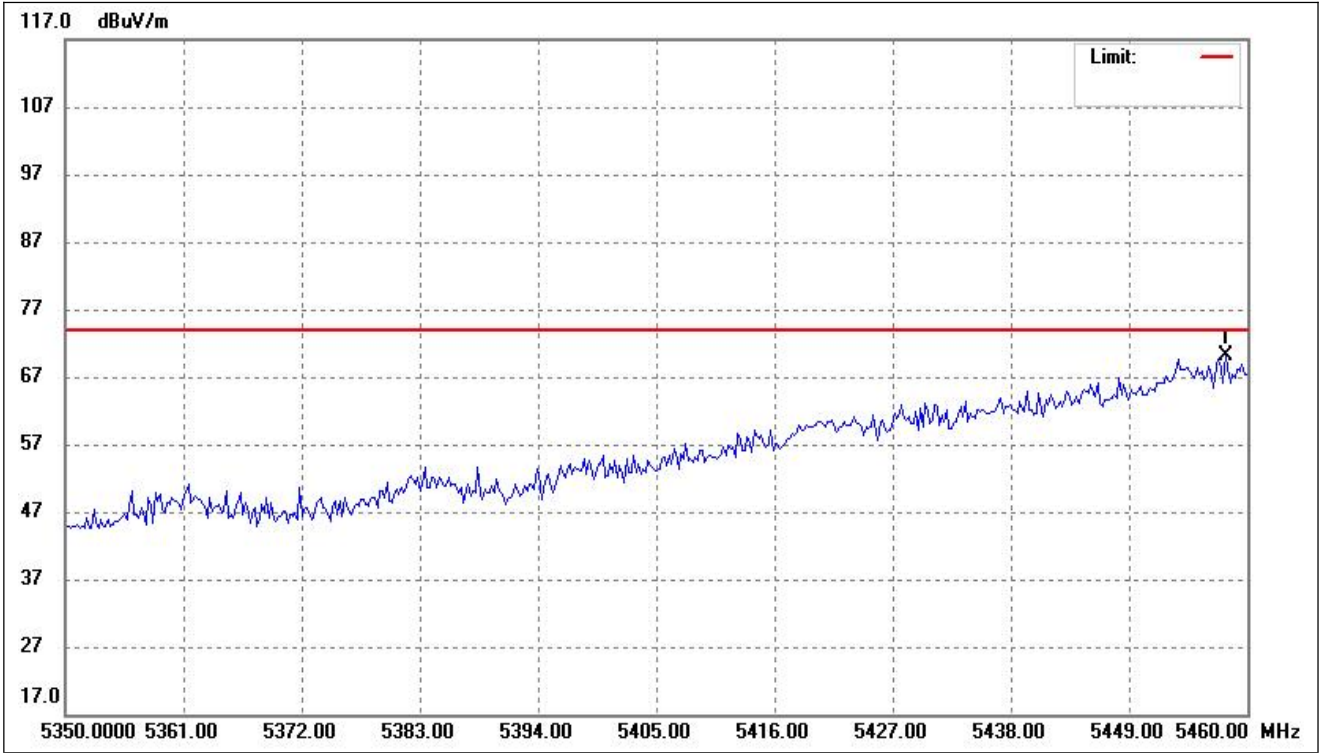
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5458.677	76.88	-10.61	66.27	74.00	-7.73	-	-	peak

802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



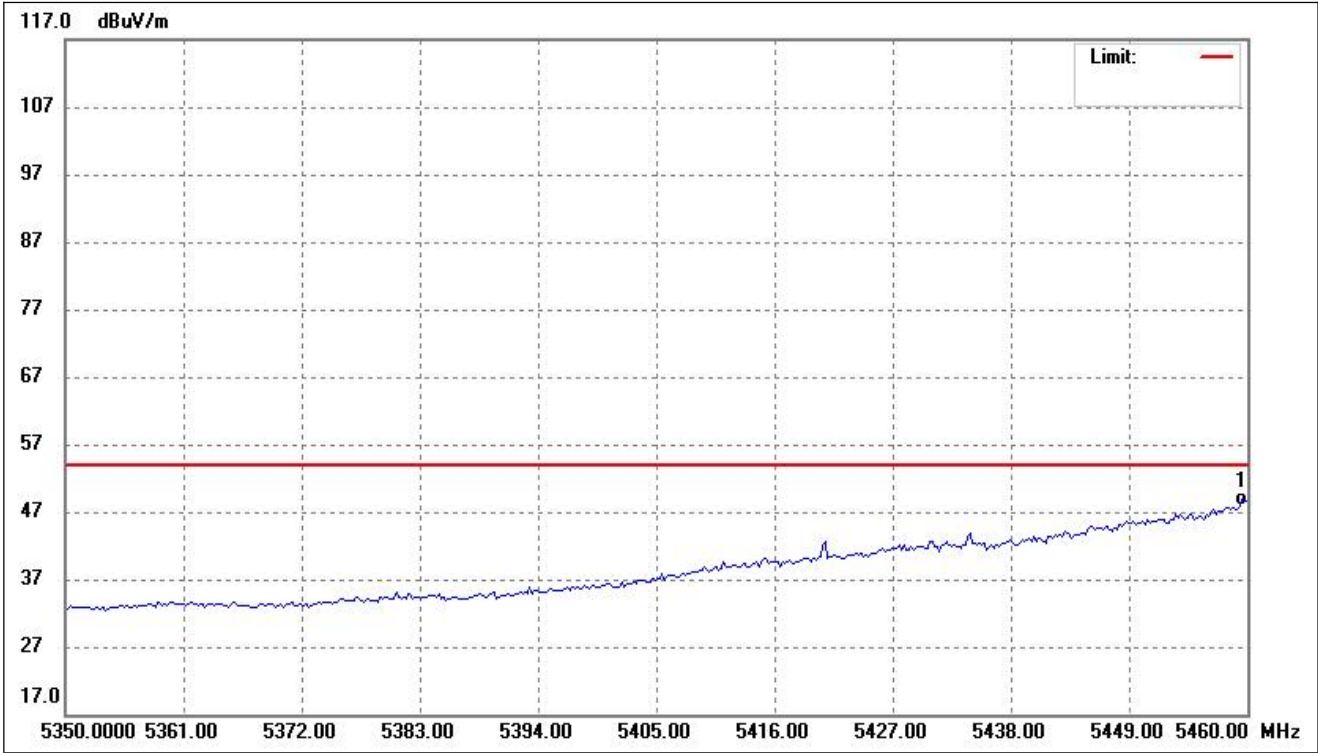
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5459.339	56.16	-10.61	45.55	54.00	-8.45	-	-	AVG

802.11ac-VHT40- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



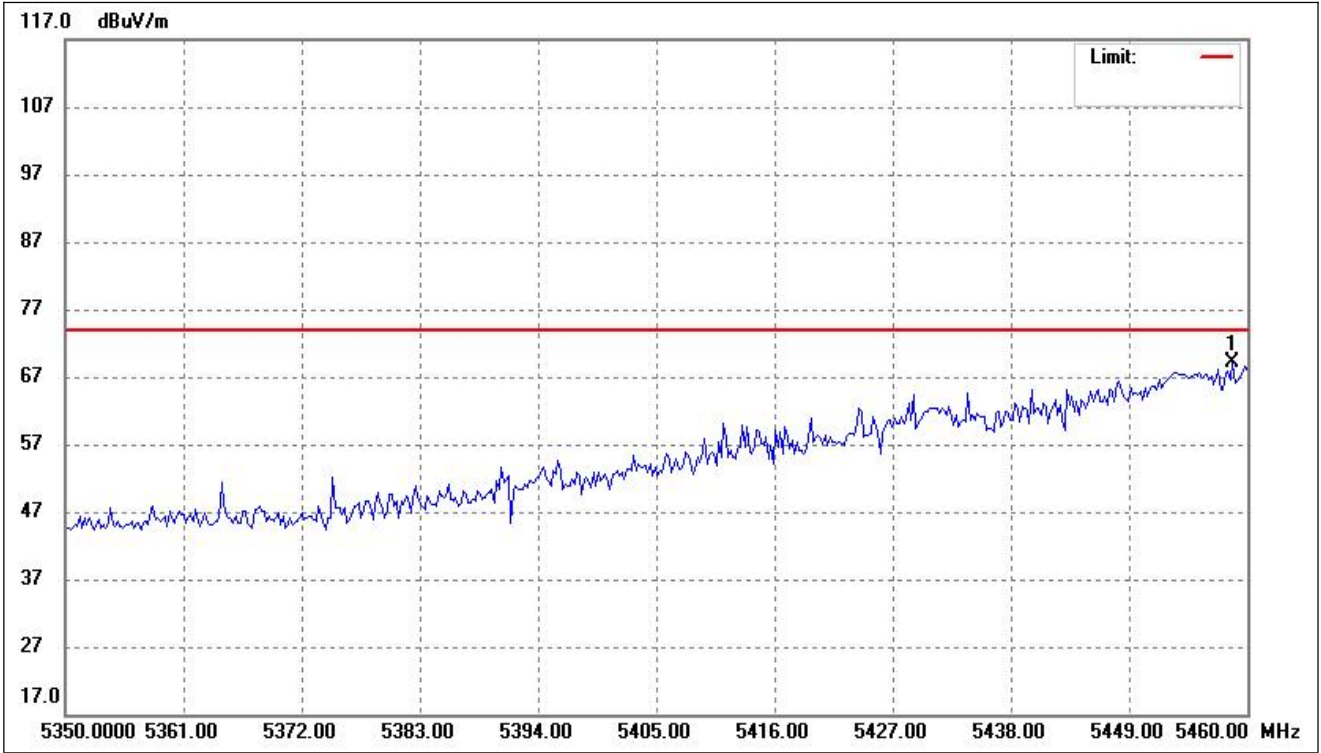
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5458.016	80.83	-10.62	70.21	74.00	-3.79	-	-	peak

802.11ac-VHT40- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



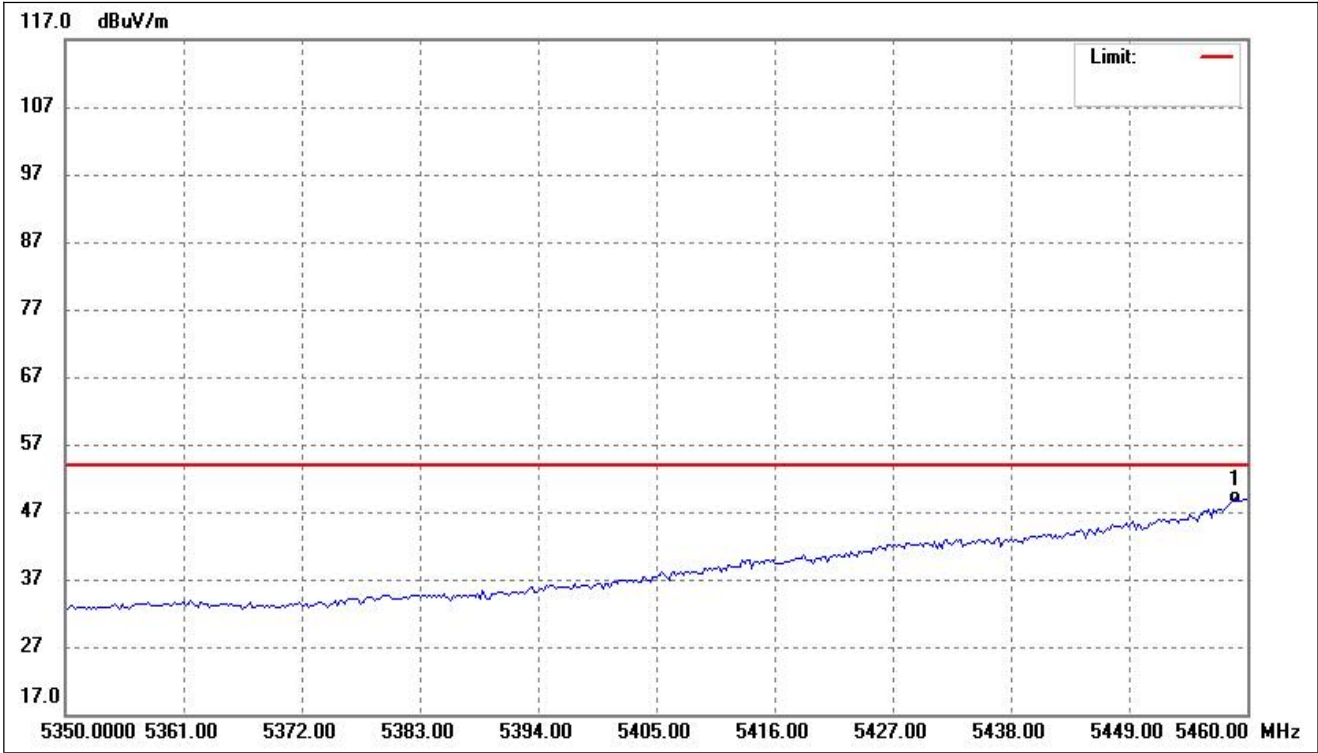
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5459.559	59.54	-10.61	48.93	54.00	-5.07	-	-	AVG

802.11ax-HE40- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5458.677	79.68	-10.61	69.07	74.00	-4.93	-	-	peak

802.11ax-HE40- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5458.898	59.85	-10.61	49.24	54.00	-4.76	-	-	AVG

Note: The Restricted Bandedge was tested in Horizontal /Vertical and the worst case position data was reported.

Remark: '-Means' the test Degree and Height is not recorded by the test software and only show the worst case in the test report.

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11a)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5180MHz)							
10360	54.37	7.11	61.48	74	-12.52	H	PK
10360	39.21	7.11	46.32	54	-7.68	H	AV
10360	52.87	7.11	59.98	74	-14.02	V	PK
10360	37.25	7.11	44.36	54	-9.64	V	AV
Middle Channel (5200MHz)							
10400	53.99	7.22	61.21	74	-12.79	H	PK
10400	38.54	7.22	45.76	54	-8.24	H	AV
10400	54.56	7.22	61.78	74	-12.22	V	PK
10400	40.81	7.22	48.03	54	-5.97	V	AV
High Channel (5240MHz)							
10480	55.50	7.69	63.19	74	-10.81	H	PK
10480	38.22	7.69	45.91	54	-8.09	H	AV
10480	52.48	7.69	60.17	74	-13.83	V	PK
10480	39.98	7.69	47.67	54	-6.33	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5260MHz)							
10520	53.12	7.96	61.08	74	-12.92	H	PK
10520	40.49	7.96	48.45	54	-5.55	H	AV
10520	55.56	7.96	63.52	74	-10.48	V	PK
10520	37.43	7.96	45.39	54	-8.61	V	AV
Middle Channel (5280MHz)							
10560	55.44	8.02	63.46	74	-10.54	H	PK
10560	37.01	8.02	45.03	54	-8.97	H	AV
10560	54.69	8.02	62.71	74	-11.29	V	PK
10560	39.71	8.02	47.73	54	-6.27	V	AV
High Channel (5320MHz)							
10640	54.47	8.35	62.82	74	-11.18	H	PK
10640	38.64	8.35	46.99	54	-7.01	H	AV
10640	54.50	8.35	62.85	74	-11.15	V	PK
10640	37.85	8.35	46.20	54	-7.80	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5500MHz)							
11000	53.49	8.82	62.31	74	-11.69	H	PK
11000	38.79	8.82	47.61	54	-6.39	H	AV
11000	53.03	8.82	61.85	74	-12.15	V	PK
11000	39.06	8.82	47.88	54	-6.12	V	AV
Middle Channel (5580MHz)							
11200	54.17	8.92	63.09	74	-10.91	H	PK
11200	39.63	8.92	48.55	54	-5.45	H	AV
11200	55.45	8.92	64.37	74	-9.63	V	PK
11200	37.71	8.92	46.63	54	-7.37	V	AV
High Channel (5700MHz)							
11400	55.17	9.36	64.53	74	-9.47	H	PK
11400	38.72	9.36	48.08	54	-5.92	H	AV
11400	55.30	9.36	64.66	74	-9.34	V	PK
11400	38.05	9.36	47.41	54	-6.59	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5745MHz)							
11490	54.77	9.45	64.22	74	-9.78	H	PK
11490	38.85	9.45	48.30	54	-5.70	H	AV
11490	55.94	9.45	65.39	74	-8.61	V	PK
11490	39.67	9.45	49.12	54	-4.88	V	AV
Middle Channel (5785MHz)							
11570	52.97	9.62	62.59	74	-11.41	H	PK
11570	38.07	9.62	47.69	54	-6.31	H	AV
11570	55.30	9.62	64.92	74	-9.08	V	PK
11570	38.45	9.62	48.07	54	-5.93	V	AV
High Channel (5825MHz)							
11650	53.92	9.84	63.76	74	-10.24	H	PK
11650	36.32	9.84	46.16	54	-7.84	H	AV
11650	52.20	9.84	62.04	74	-11.96	V	PK
11650	37.63	9.84	47.47	54	-6.53	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-42.25	-27
Highest	Above 5350	-41.02	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-43.32	-27
Highest	Above 5350	-41.87	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-39.62	-27
Highest	Above 5725	-37.12	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-36.52	-27
	5715 to 5725	-37.12	-17
Highest	5850 to 5860	-29.45	-17
	Above 5860	-28.41	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11n HT20)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5180MHz)							
10360	52.89	7.11	60.00	74	-14.00	H	PK
10360	38.16	7.11	45.27	54	-8.73	H	AV
10360	54.60	7.11	61.71	74	-12.29	V	PK
10360	39.91	7.11	47.02	54	-6.98	V	AV
Middle Channel (5200MHz)							
10400	55.09	7.22	62.31	74	-11.69	H	PK
10400	38.49	7.22	45.71	54	-8.29	H	AV
10400	52.81	7.22	60.03	74	-13.97	V	PK
10400	37.77	7.22	44.99	54	-9.01	V	AV
High Channel (5240MHz)							
10480	54.96	7.69	62.65	74	-11.35	H	PK
10480	38.60	7.69	46.29	54	-7.71	H	AV
10480	54.33	7.69	62.02	74	-11.98	V	PK
10480	37.69	7.69	45.38	54	-8.62	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5260MHz)							
10520	52.79	7.96	60.75	74	-13.25	H	PK
10520	39.61	7.96	47.57	54	-6.43	H	AV
10520	55.60	7.96	63.56	74	-10.44	V	PK
10520	38.61	7.96	46.57	54	-7.43	V	AV
Middle Channel (5280MHz)							
10560	53.99	8.02	62.01	74	-11.99	H	PK
10560	38.82	8.02	46.84	54	-7.16	H	AV
10560	54.94	8.02	62.96	74	-11.04	V	PK
10560	37.13	8.02	45.15	54	-8.85	V	AV
High Channel (5320MHz)							
10640	53.07	8.35	61.42	74	-12.58	H	PK
10640	40.22	8.35	48.57	54	-5.43	H	AV
10640	52.49	8.35	60.84	74	-13.16	V	PK
10640	40.66	8.35	49.01	54	-4.99	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5500MHz)							
11000	52.56	8.82	61.38	74	-12.62	H	PK
11000	38.05	8.82	46.87	54	-7.13	H	AV
11000	52.99	8.82	61.81	74	-12.19	V	PK
11000	38.93	8.82	47.75	54	-6.25	V	AV
Middle Channel (5580MHz)							
11200	52.98	8.92	61.90	74	-12.10	H	PK
11200	38.11	8.92	47.03	54	-6.97	H	AV
11200	53.24	8.92	62.16	74	-11.84	V	PK
11200	39.19	8.92	48.11	54	-5.89	V	AV
High Channel (5700MHz)							
11400	55.35	9.84	65.19	74	-8.81	H	PK
11400	38.99	9.84	48.83	54	-5.17	H	AV
11400	55.76	9.84	65.60	74	-8.40	V	PK
11400	39.75	9.84	49.59	54	-4.41	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5745MHz)							
11490	52.52	9.45	61.97	74	-12.03	H	PK
11490	40.73	9.45	50.18	54	-3.82	H	AV
11490	54.75	9.45	64.20	74	-9.80	V	PK
11490	38.90	9.45	48.35	54	-5.65	V	AV
Middle Channel (5785MHz)							
11570	56.35	9.62	65.97	74	-8.03	H	PK
11570	40.03	9.62	49.65	54	-4.35	H	AV
11570	52.79	9.62	62.41	74	-11.59	V	PK
11570	39.59	9.62	49.21	54	-4.79	V	AV
High Channel (5825MHz)							
11650	55.62	9.84	65.46	74	-8.54	H	PK
11650	38.17	9.84	48.01	54	-5.99	H	AV
11650	53.52	9.84	63.36	74	-10.64	V	PK
11650	35.97	9.84	45.81	54	-8.19	V	AV

➤ Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-39.52	-27
Highest	Above 5350	-41.02	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-41.25	-27
Highest	Above 5350	-42.65	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-37.12	-27
Highest	Above 5725	-39.31	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-41.02	-27
	5715 to 5725	-36.35	-17
Highest	5850 to 5860	-47.25	-17
	Above 5860	-48.10	-27
Note: the data just list the worst cases			

Note: this EUT was tested in the low, high channel and the worst case position data was reported.

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11ac VHT20)
- Harmonics And Spurious Emissions

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel (5180MHz)							
10360	61.29	-6.07	55.22	74	-18.78	61.29	PK
10360	41.73	-6.07	35.66	54	-18.34	41.73	AV
10360	55.56	-1.63	53.93	74	-20.07	55.56	PK
10360	39.65	-1.63	38.02	54	-15.98	39.65	AV
Middle Channel (5200MHz)							
10400	59.72	-5.94	53.78	74	-20.22	H	PK
10400	41.33	-5.94	35.39	54	-18.61	H	AV
10400	54.68	-1.59	53.09	74	-20.91	V	PK
10400	38.58	-1.59	36.99	54	-17.01	V	AV
High Channel (5240MHz)							
10480	58.81	-5.81	53	74	-21	H	PK
10480	43.4	-5.81	37.59	54	-16.41	H	AV
10480	52.85	-1.55	51.3	74	-22.7	V	PK
10480	40.15	-1.55	38.6	54	-15.4	V	AV

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel (5260MHz)							
10520	61.87	-6.07	55.8	74	-18.2	H	PK
10520	41.19	-6.07	35.12	54	-18.88	H	AV
10520	52.79	-1.63	51.16	74	-22.84	V	PK
10520	38.07	-1.63	36.44	54	-17.56	V	AV
Middle Channel (5280MHz)							
10560	61.56	-5.94	55.62	74	-18.38	H	PK
10560	41.83	-5.94	35.89	54	-18.11	H	AV
10560	54.2	-1.59	52.61	74	-21.39	V	PK
10560	39.62	-1.59	38.03	54	-15.97	V	AV
High Channel (5320MHz)							
10640	58.64	-5.81	52.83	74	-21.17	H	PK
10640	43.28	-5.81	37.47	54	-16.53	H	AV
10640	54.52	-1.55	52.97	74	-21.03	V	PK
10640	38.04	-1.55	36.49	54	-17.51	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5500MHz)							
11000	61.59	-6.07	55.52	74	-18.48	H	PK
11000	41.19	-6.07	35.12	54	-18.88	H	AV
11000	55.43	-1.63	53.8	74	-20.2	V	PK
11000	38.37	-1.63	36.74	54	-17.26	V	AV
Middle Channel (5580MHz)							
11200	58.16	-5.94	52.22	74	-21.78	H	PK
11200	43.92	-5.94	37.98	54	-16.02	H	AV
11200	53.12	-1.59	51.53	74	-22.47	V	PK
11200	39.59	-1.59	38	54	-16	V	AV
High Channel (5700MHz)							
11400	60.53	-5.81	54.72	74	-19.28	H	PK
11400	42.86	-5.81	37.05	54	-16.95	H	AV
11400	54.42	-1.55	52.87	74	-21.13	V	PK
11400	39.7	-1.55	38.15	54	-15.85	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5745MHz)							
11490	61.37	-6.07	55.3	74	-18.7	H	PK
11490	42.22	-6.07	36.15	54	-17.85	H	AV
11490	54.54	-1.63	52.91	74	-21.09	V	PK
11490	38.2	-1.63	36.57	54	-17.43	V	AV
Middle Channel (5785MHz)							
11570	61.74	-5.94	55.8	74	-18.2	H	PK
11570	43.42	-5.94	37.48	54	-16.52	H	AV
11570	53.3	-1.59	51.71	74	-22.29	V	PK
11570	39.3	-1.59	37.71	54	-16.29	V	AV
High Channel (5825MHz)							
11650	58.6	-5.81	52.79	74	-21.21	H	PK
11650	42.49	-5.81	36.68	54	-17.32	H	AV
11650	52.75	-1.55	51.2	74	-22.8	V	PK
11650	39.71	-1.55	38.16	54	-15.84	V	AV

➤ Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-38.31	-27
Highest	Above 5350	-42.21	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-44.36	-27
Highest	Above 5350	-43.85	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-34.32	-27
Highest	Above 5725	-37.21	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-39.21	-27
	5715 to 5725	-35.36	-17
Highest	5850 to 5860	-45.33	-17
	Above 5860	-44.56	-27
Note: the data just list the worst cases			

Note: this EUT was tested in the low, high channel and the worst case position data was reported.

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11ax HE20)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5180MHz)							
10360	61.05	-6.07	54.98	74	-19.02	61.05	PK
10360	41.33	-6.07	35.26	54	-18.74	41.33	AV
10360	54.92	-1.63	53.29	74	-20.71	54.92	PK
10360	40.67	-1.63	39.04	54	-14.96	40.67	AV
Middle Channel (5200MHz)							
10400	61.05	-5.94	55.11	74	-18.89	H	PK
10400	43.07	-5.94	37.13	54	-16.87	H	AV
10400	55.76	-1.59	54.17	74	-19.83	V	PK
10400	39.06	-1.59	37.47	54	-16.53	V	AV
High Channel (5240MHz)							
10480	58.58	-5.81	52.77	74	-21.23	H	PK
10480	42.9	-5.81	37.09	54	-16.91	H	AV
10480	52.19	-1.55	50.64	74	-23.36	V	PK
10480	39.75	-1.55	38.2	54	-15.8	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5260MHz)							
10520	58.77	-6.07	52.7	74	-21.3	H	PK
10520	41.33	-6.07	35.26	54	-18.74	H	AV
10520	53.35	-1.63	51.72	74	-22.28	V	PK
10520	40.74	-1.63	39.11	54	-14.89	V	AV
Middle Channel (5280MHz)							
10560	60.66	-5.94	54.72	74	-19.28	H	PK
10560	42.73	-5.94	36.79	54	-17.21	H	AV
10560	54.06	-1.59	52.47	74	-21.53	V	PK
10560	38.86	-1.59	37.27	54	-16.73	V	AV
High Channel (5320MHz)							
10640	58.99	-5.81	53.18	74	-20.82	H	PK
10640	42.8	-5.81	36.99	54	-17.01	H	AV
10640	52.73	-1.55	51.18	74	-22.82	V	PK
10640	38.35	-1.55	36.8	54	-17.2	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5500MHz)							
11000	58.21	-6.07	52.14	74	-21.86	H	PK
11000	42.75	-6.07	36.68	54	-17.32	H	AV
11000	52.01	-1.63	50.38	74	-23.62	V	PK
11000	40.79	-1.63	39.16	54	-14.84	V	AV
Middle Channel (5580MHz)							
11200	60.45	-5.94	54.51	74	-19.49	H	PK
11200	43.92	-5.94	37.98	54	-16.02	H	AV
11200	55.59	-1.59	54	74	-20	V	PK
11200	40.76	-1.59	39.17	54	-14.83	V	AV
High Channel (5700MHz)							
11400	61.86	-5.81	56.05	74	-17.95	H	PK
11400	43.46	-5.81	37.65	54	-16.35	H	AV
11400	53.35	-1.55	51.8	74	-22.2	V	PK
11400	39.64	-1.55	38.09	54	-15.91	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5745MHz)							
11490	61.27	-6.07	55.2	74	-18.8	H	PK
11490	42.84	-6.07	36.77	54	-17.23	H	AV
11490	53.66	-1.63	52.03	74	-21.97	V	PK
11490	40.21	-1.63	38.58	54	-15.42	V	AV
Middle Channel (5785MHz)							
11570	60.66	-5.94	54.72	74	-19.28	H	PK
11570	41.54	-5.94	35.6	54	-18.4	H	AV
11570	54.67	-1.59	53.08	74	-20.92	V	PK
11570	39.32	-1.59	37.73	54	-16.27	V	AV
High Channel (5825MHz)							
11650	58.27	-5.81	52.46	74	-21.54	H	PK
11650	42.45	-5.81	36.64	54	-17.36	H	AV
11650	54.42	-1.55	52.87	74	-21.13	V	PK
11650	38.64	-1.55	37.09	54	-16.91	V	AV

➤ Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-36.21	-27
Highest	Above 5350	-39.23	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-41.21	-27
Highest	Above 5350	-29.33	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-32.11	-27
Highest	Above 5725	-35.36	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-34.36	-27
	5715 to 5725	-31.33	-17
Highest	5850 to 5860	-39.34	-17
	Above 5860	-41.26	-27
Note: the data just list the worst cases			

Note: this EUT was tested in the low, high channel and the worst case position data was reported.

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11n HT40)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5190MHz)							
10380	53.05	7.89	60.94	74	-13.06	H	PK
10380	39.83	7.89	47.72	54	-6.28	H	AV
10380	53.74	7.89	61.63	74	-12.37	V	PK
10380	40.58	7.89	48.47	54	-5.53	V	AV
High Channel (5230MHz)							
10460	54.75	7.97	62.72	74	-11.28	H	PK
10460	40.44	7.97	48.41	54	-5.59	H	AV
10460	54.49	7.97	62.46	74	-11.54	V	PK
10460	37.57	7.97	45.54	54	-8.46	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5270MHz)							
10540	53.29	8.16	61.45	74	-12.55	H	PK
10540	38.65	8.16	46.81	54	-7.19	H	AV
10540	53.83	8.16	61.99	74	-12.01	V	PK
10540	40.20	8.16	48.36	54	-5.64	V	AV
High Channel (5310MHz)							
10620	52.99	8.57	61.56	74	-12.44	H	PK
10620	37.49	8.57	46.06	54	-7.94	H	AV
10620	55.27	8.57	63.84	74	-10.16	V	PK
10620	37.83	8.57	46.40	54	-7.60	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5510MHz)							
11020	54.12	9.16	63.28	74	-10.72	H	PK
11020	38.11	9.16	47.27	54	-6.73	H	AV
11020	53.96	9.16	63.12	74	-10.88	V	PK
11020	39.74	9.16	48.90	54	-5.10	V	AV
Middle Channel (5550MHz)							
11180	52.68	9.29	61.97	74	-12.03	H	PK
11180	40.41	9.29	49.70	54	-4.30	H	AV
11180	55.95	9.29	65.24	74	-8.76	V	PK
11180	37.26	9.29	46.55	54	-7.45	V	AV
High Channel (5670MHz)							
11340	54.45	9.43	63.88	74	-10.12	H	PK
11340	37.61	9.43	47.04	54	-6.96	H	AV
11340	55.26	9.43	64.69	74	-9.31	V	PK
11340	40.77	9.43	50.20	54	-3.80	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5755MHz)							
11510	52.80	9.45	62.25	74	-11.75	H	PK
11510	38.68	9.45	48.13	54	-5.87	H	AV
11510	53.03	9.45	62.48	74	-11.52	V	PK
11510	41.49	9.45	50.94	54	-3.06	V	AV
High Channel (5795MHz)							
11590	52.90	9.27	62.17	74	-11.83	H	PK
11590	39.10	9.27	48.37	54	-5.63	H	AV
11590	53.03	9.27	62.30	74	-11.70	V	PK
11590	36.20	9.27	45.47	54	-8.53	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-39.52	-27
Highest	Above 5350	-37.12	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-36.52	-27
Highest	Above 5350	-37.34	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-35.96	-27
Highest	Above 5725	-37.04	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-41.02	-27
	5715 to 5725	-34.12	-17
Highest	5850 to 5860	-36.67	-17
	Above 5860	-39.41	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11ac VHT40)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5190MHz)							
10380	60.46	-6.07	54.39	74	-19.61	H	PK
10380	42.91	-6.07	36.84	54	-17.16	H	AV
10380	52.16	-1.63	50.53	74	-23.47	V	PK
10380	40.92	-1.63	39.29	54	-14.71	V	AV
High Channel (5230MHz)							
10460	60.76	-5.94	54.82	74	-19.18	H	PK
10460	43.69	-5.94	37.75	54	-16.25	H	AV
10460	55.27	-1.59	53.68	74	-20.32	V	PK
10460	38.58	-1.59	36.99	54	-17.01	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5270MHz)							
10540	58.05	-6.07	51.98	74	-22.02	H	PK
10540	43.95	-6.07	37.88	54	-16.12	H	AV
10540	52.82	-1.63	51.19	74	-22.81	V	PK
10540	39.31	-1.63	37.68	54	-16.32	V	AV
High Channel (5310MHz)							
10620	60.15	-5.94	54.21	74	-19.79	H	PK
10620	42.02	-5.94	36.08	54	-17.92	H	AV
10620	55.66	-1.59	54.07	74	-19.93	V	PK
10620	38.92	-1.59	37.33	54	-16.67	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5510MHz)							
11020	60.97	-6.07	54.9	74	-19.1	H	PK
11020	42.43	-6.07	36.36	54	-17.64	H	AV
11020	53.28	-1.63	51.65	74	-22.35	V	PK
11020	40.77	-1.63	39.14	54	-14.86	V	AV
Middle Channel (5550MHz)							
11180	59.44	-5.94	53.5	74	-20.5	H	PK
11180	41.7	-5.94	35.76	54	-18.24	H	AV
11180	52.16	-1.59	50.57	74	-23.43	V	PK
11180	38.97	-1.59	37.38	54	-16.62	V	AV
High Channel (5670MHz)							
11340	60.91	-5.81	55.1	74	-18.9	H	PK
11340	42.35	-5.81	36.54	54	-17.46	H	AV
11340	55.3	-1.55	53.75	74	-20.25	V	PK
11340	38.36	-1.55	36.81	54	-17.19	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5755MHz)							
11510	60.6	-6.07	54.53	74	-19.47	H	PK
11510	43.81	-6.07	37.74	54	-16.26	H	AV
11510	53.61	-1.63	51.98	74	-22.02	V	PK
11510	39.45	-1.63	37.82	54	-16.18	V	AV
High Channel (5795MHz)							
11590	61.3	-5.94	55.36	74	-18.64	H	PK
11590	42.77	-5.94	36.83	54	-17.17	H	AV
11590	53.9	-1.59	52.31	74	-21.69	V	PK
11590	39.57	-1.59	37.98	54	-16.02	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-32.32	-27
Highest	Above 5350	-31.33	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-35.37	-27
Highest	Above 5350	-32.69	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-32.36	-27
Highest	Above 5725	-35.14	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-39.33	-27
	5715 to 5725	-31.65	-17
Highest	5850 to 5860	-35.22	-17
	Above 5860	-37.36	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11ax HE40)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5190MHz)							
10380	60.94	-6.07	54.87	74	-19.13	H	PK
10380	43.85	-6.07	37.78	54	-16.22	H	AV
10380	55.28	-1.63	53.65	74	-20.35	V	PK
10380	38.51	-1.63	36.88	54	-17.12	V	AV
High Channel (5230MHz)							
10460	59.91	-5.94	53.97	74	-20.03	H	PK
10460	41.59	-5.94	35.65	54	-18.35	H	AV
10460	54.79	-1.59	53.2	74	-20.8	V	PK
10460	38.26	-1.59	36.67	54	-17.33	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5270MHz)							
10540	61.62	-6.07	55.55	74	-18.45	H	PK
10540	41.11	-6.07	35.04	54	-18.96	H	AV
10540	54.4	-1.63	52.77	74	-21.23	V	PK
10540	39.41	-1.63	37.78	54	-16.22	V	AV
High Channel (5310MHz)							
10620	61.41	-5.94	55.47	74	-18.53	H	PK
10620	42.59	-5.94	36.65	54	-17.35	H	AV
10620	52.44	-1.59	50.85	74	-23.15	V	PK
10620	39.98	-1.59	38.39	54	-15.61	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5510MHz)							
11020	59.94	-6.07	53.87	74	-20.13	H	PK
11020	41.38	-6.07	35.31	54	-18.69	H	AV
11020	54.69	-1.63	53.06	74	-20.94	V	PK
11020	38.12	-1.63	36.49	54	-17.51	V	AV
Middle Channel (5550MHz)							
11180	58.33	-5.94	52.39	74	-21.61	H	PK
11180	43.33	-5.94	37.39	54	-16.61	H	AV
11180	55.26	-1.59	53.67	74	-20.33	V	PK
11180	40.57	-1.59	38.98	54	-15.02	V	AV
High Channel (5670MHz)							
11340	58.76	-5.81	52.95	74	-21.05	H	PK
11340	41.81	-5.81	36	54	-18	H	AV
11340	55.15	-1.55	53.6	74	-20.4	V	PK
11340	40.44	-1.55	38.89	54	-15.11	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5755MHz)							
11510	61.44	-6.07	55.37	74	-18.63	H	PK
11510	42.65	-6.07	36.58	54	-17.42	H	AV
11510	54.18	-1.63	52.55	74	-21.45	V	PK
11510	39.92	-1.63	38.29	54	-15.71	V	AV
High Channel (5795MHz)							
11590	58.29	-5.94	52.35	74	-21.65	H	PK
11590	41.12	-5.94	35.18	54	-18.82	H	AV
11590	55.6	-1.59	54.01	74	-19.99	V	PK
11590	40.5	-1.59	38.91	54	-15.09	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-38.64	-27
Highest	Above 5350	-35.36	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-34.21	-27
Highest	Above 5350	-36.22	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-34.78	-27
Highest	Above 5725	-36.25	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5715	-39.32	-27
	5715 to 5725	-31.36	-17
Highest	5850 to 5860	-34.21	-17
	Above 5860	-35.12	-27
Note: the data just list the worst cases			

Note: Testing is carried out with frequency rang 9kHz to 40Ghz, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

9. Frequency Stability

9.1 Standard Applicable

According to §15.407(g), manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

9.2 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode.

9.3 Summary of Test Results/Plots

Please refer to Appendix D

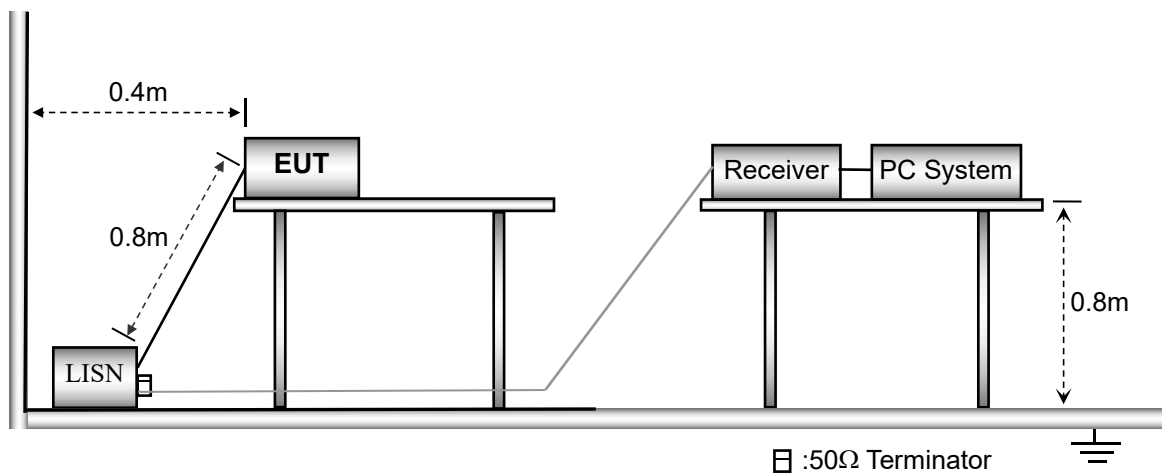
10. Conducted Emissions

10.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 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.

10.2 Basic Test Setup Block Diagram



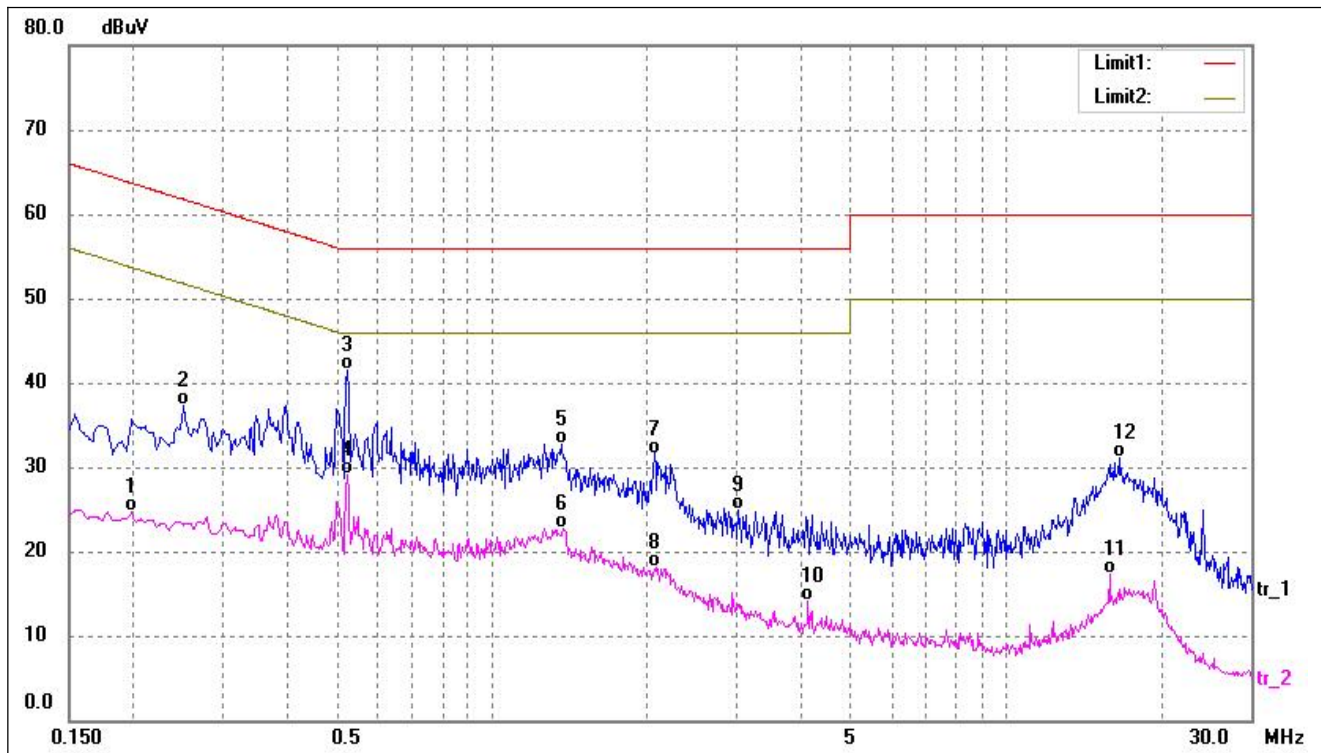
10.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency.....	150kHz
Stop Frequency.....	30MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10kHz
Quasi-Peak Adapter Bandwidth.....	9kHz
Quasi-Peak Adapter Mode.....	Normal

10.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
-----------	---------------	-------------	-----------	---------



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1980	14.89	9.72	24.61	53.69	-29.08	AVG
2	0.2500	27.61	9.68	37.29	61.75	-24.46	QP
3*	0.5220	32.02	9.46	41.48	56.00	-14.52	QP
4	0.5220	19.68	9.46	29.14	46.00	-16.86	AVG
5	1.3660	23.08	9.64	32.72	56.00	-23.28	QP
6	1.3779	13.08	9.65	22.73	46.00	-23.27	AVG
7	2.0700	21.65	9.95	31.60	56.00	-24.40	QP
8	2.0860	8.10	9.94	18.04	46.00	-27.96	AVG
9	3.0100	15.12	9.75	24.87	56.00	-31.13	QP
10	4.1340	4.49	9.56	14.05	46.00	-31.95	AVG
11	15.9020	7.64	9.66	17.30	50.00	-32.70	AVG
12	16.6259	21.44	9.68	31.12	60.00	-28.88	QP