

TEST REPORT

Reference No..... : WTX25X06158982W001
FCC ID : 2AKIT-HMG03
Applicant : Lumi United Technology Co., Ltd
Address : B1, Chongwen Park, Nanshan iPark, Liuxian Avenue, Taoyuan Residential
District, Nanshan District, Shenzhen, China
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : Hub M200
Model No..... : HM-G03D
Standards : FCC Part 15.407
Date of Receipt sample : 2025-06-18
Date of Test..... : 2025-06-18 to 2025-07-25
Date of Issue : 2025-07-25
Test Report Form No. : WTX_Part 15_407W
Test Result..... : Pass

Remarks:

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

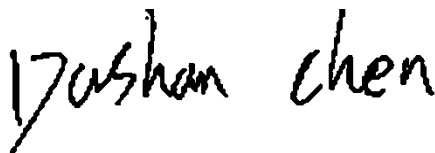
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Report version

Version No.	Date of issue	Description
Rev.00	2025-07-25	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Hub M200
Trade Name:	Aqara
Model No.:	HM-G03D
Adding Model(s):	HM-G03E
Rated Voltage:	Type-C DC5V POE DC48V
Battery Capacity:	/
Power Adapter:	/
<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 HM-G03D, 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-HE40
Frequency Range:	5180-5240MHz, 5745-5825MHz
Max. RF Output Power:	14.79dBm (Conducted)
Type of Modulation:	BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Type of Antenna:	Internal Antenna
Antenna Gain:	0.5dBi
<i>Note The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.407: General technical requirements.

ANSI C63.10-2020: 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

Use “QCOM_V1.6.exe” and follow the instructions given by the manufacturer, you can start to test. During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. Test use the customer default power level, and to measure its highest possible emissions level, more detailed description as follows:

Mode	Test Frequency (MHz)											
	NCB: 20MHz											
	5180	5200	5240	5745	5785	5825						
802.11a 6Mbps	16	16	16	16	16	16						
802.11n-HT20 MCS0	15	15	15	15	15	15						
802.11ac-VHT2 0 MCS0	14	14	14	14	14	14						
802.11ax-HT20 MCS0	13	13	13	12	12	12						

Mode	NCB: 40MHz									
	5190	5230	5755	5795						
802.11n-HT40 MCS0	12	12	11	11						
802.11ac-HT40 MCS0	12	12	11	11						
802.11ax-HT40 MCS0	11	11	10	10						

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, 5745MHz, 5785MHz,5825MHz
TM2	802.11n-HT20	5180MHz,5200MHz,5240MHz, 5745MHz, 5785MHz,5825MHz
TM3	802.11ac-HT20	5180MHz,5200MHz,5240MHz, 5745MHz, 5785MHz,5825MHz
TM4	802.11ax-HE20	5180MHz,5200MHz,5240MHz, 5745MHz, 5785MHz,5825MHz
TM5	802.11n-HT40	5190MHz,5230MHz,5270MHz, 5755MHz,5795MHz
TM6	802.11ac-HT40	5190MHz,5230MHz,5270MHz, 5755MHz,5795MHz
TM7	802.11ax-HE40	5190MHz,5230MHz,5270MHz, 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
USB Cable	1.0	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Network Cable	1.0	Unshielded	Without Ferrite

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Adapter	Xiaomi	MDY-08-EH	/
Wireless Router	MERCURY	MS08CP	/

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-1G18	2002	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; §15.407(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 integral 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.: WTX25X06158982W001

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 collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

7.2 Test Procedure

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

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

narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

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

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

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

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

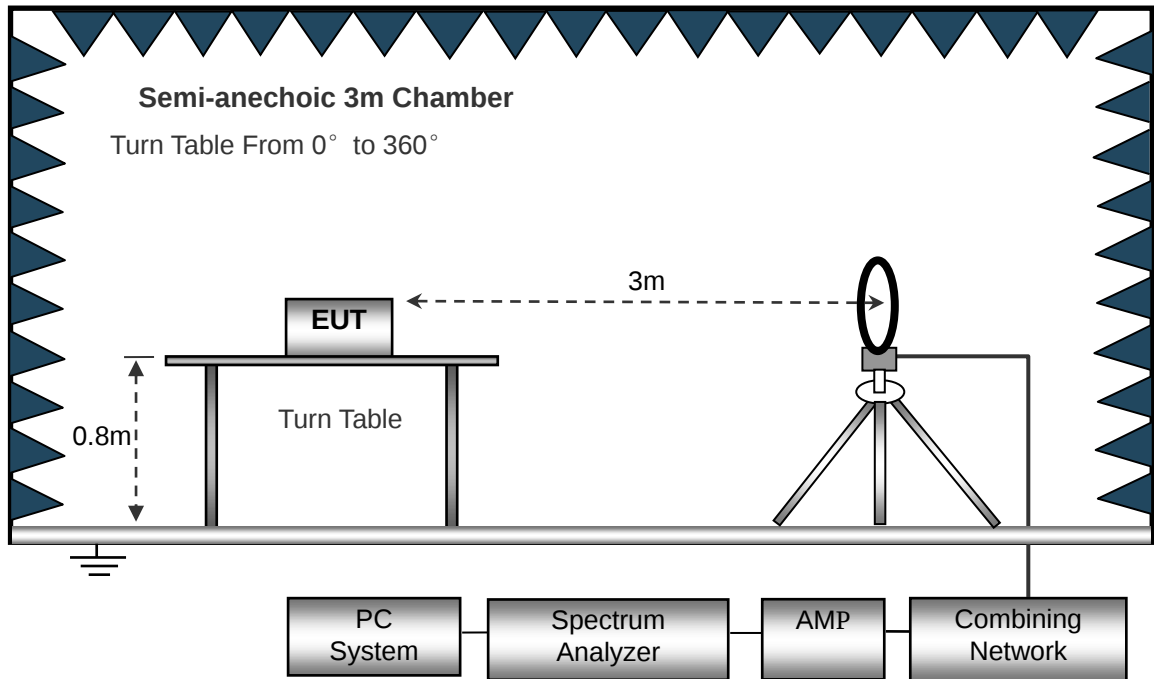
- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

8.2 Test Procedure

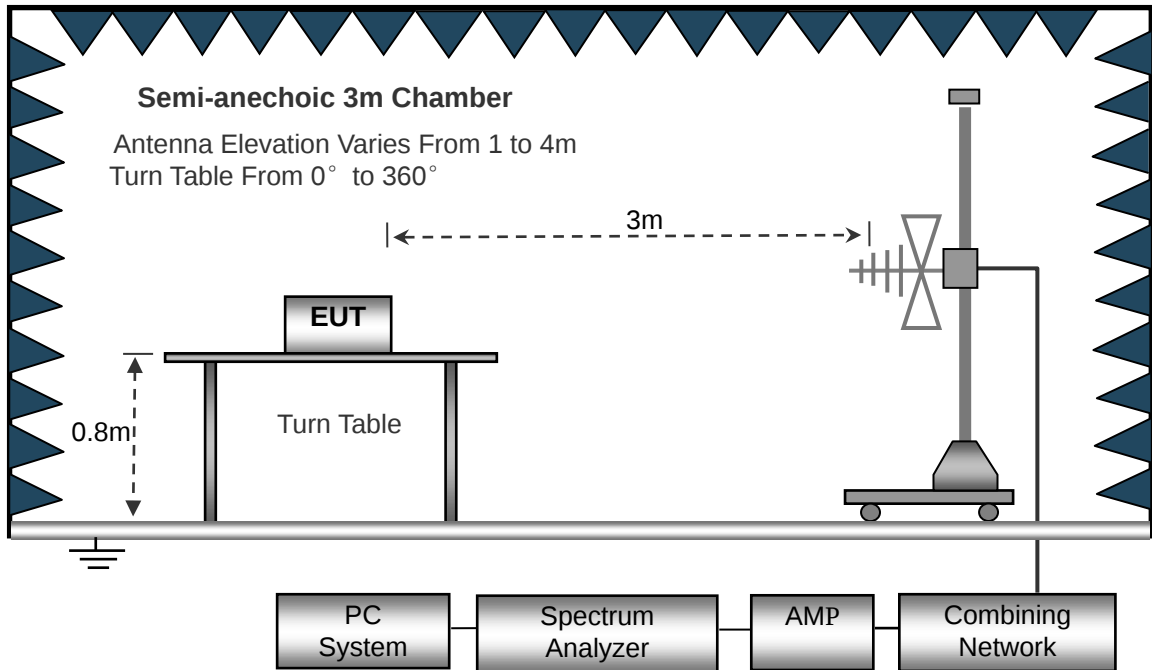
The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

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.

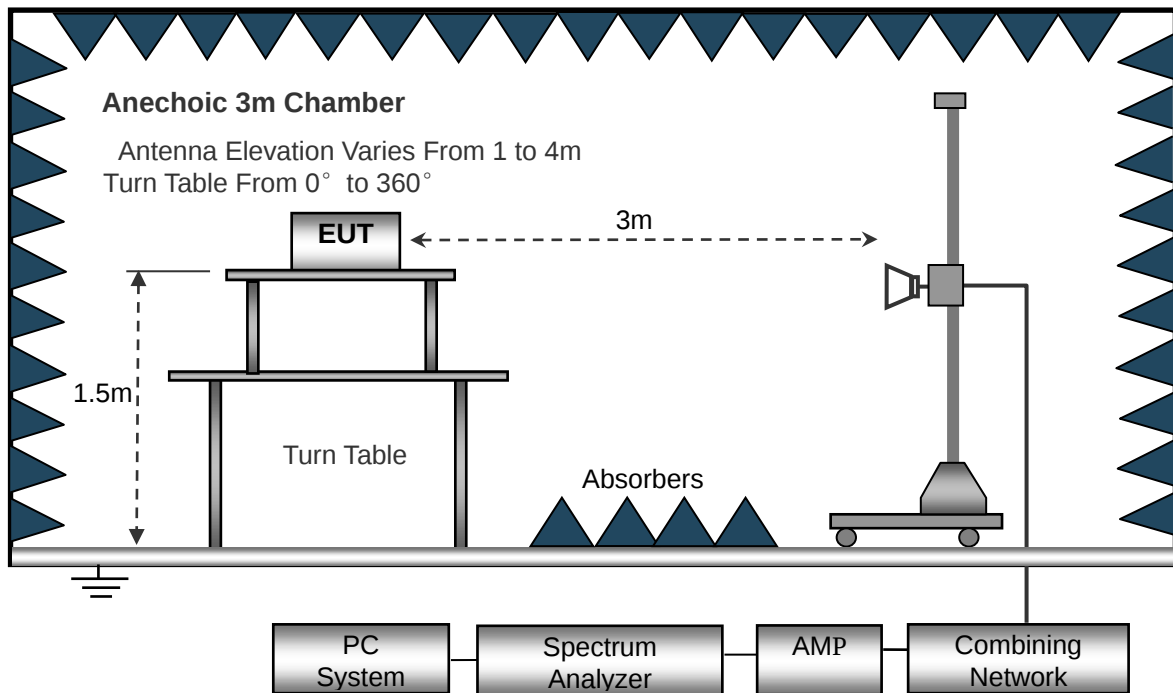
The test setup for emission measurement below 30MHz.



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:

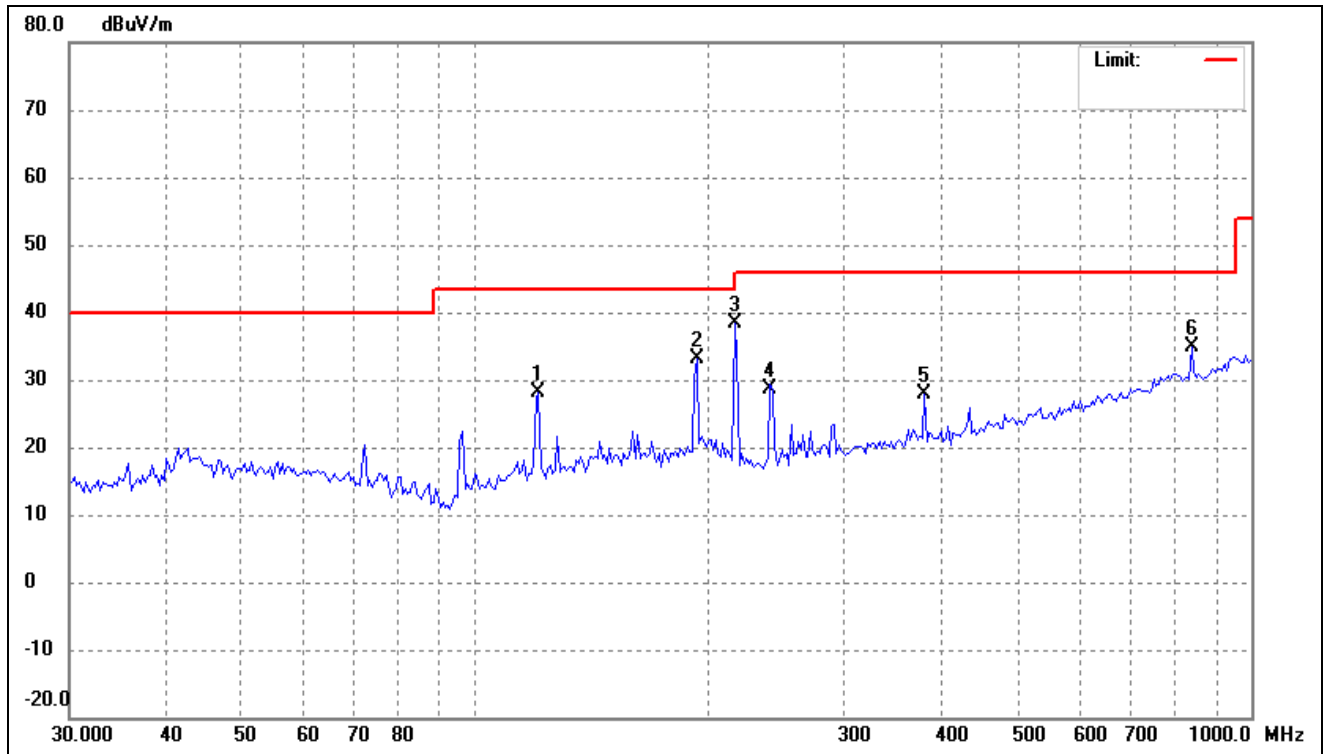
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

8.5 Summary of Test Results/Plots

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

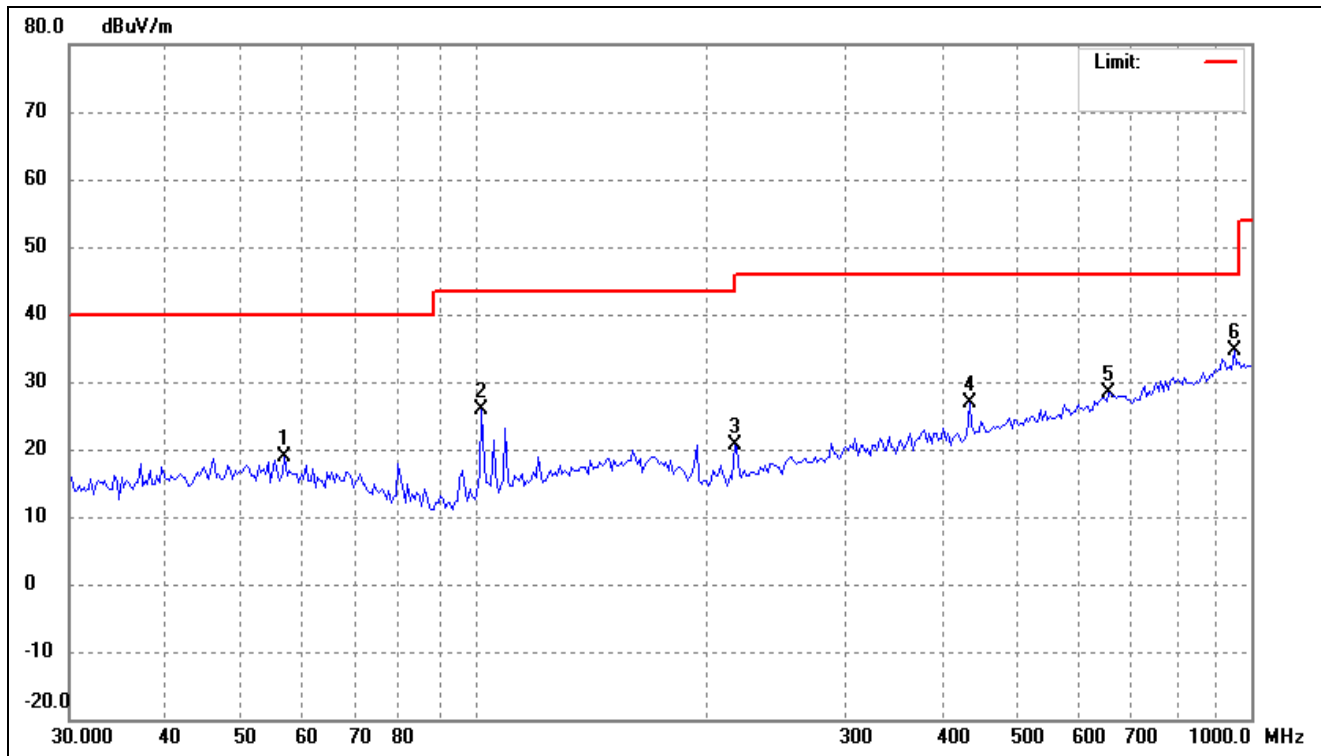
- Spurious Emission From 30MHz to 1GHz
- 5150-5250MHz

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	120.6118	38.85	-10.83	28.02	43.50	-15.48	-	-	peak
2	193.1366	44.59	-11.40	33.19	43.50	-10.31	-	-	peak
3	216.1197	50.16	-11.66	38.50	46.00	-7.50	-	-	peak
4	241.8377	38.58	-9.91	28.67	46.00	-17.33	-	-	peak
5	379.1780	34.42	-6.50	27.92	46.00	-18.08	-	-	peak
6	838.8870	33.95	0.97	34.92	46.00	-11.08	-	-	peak

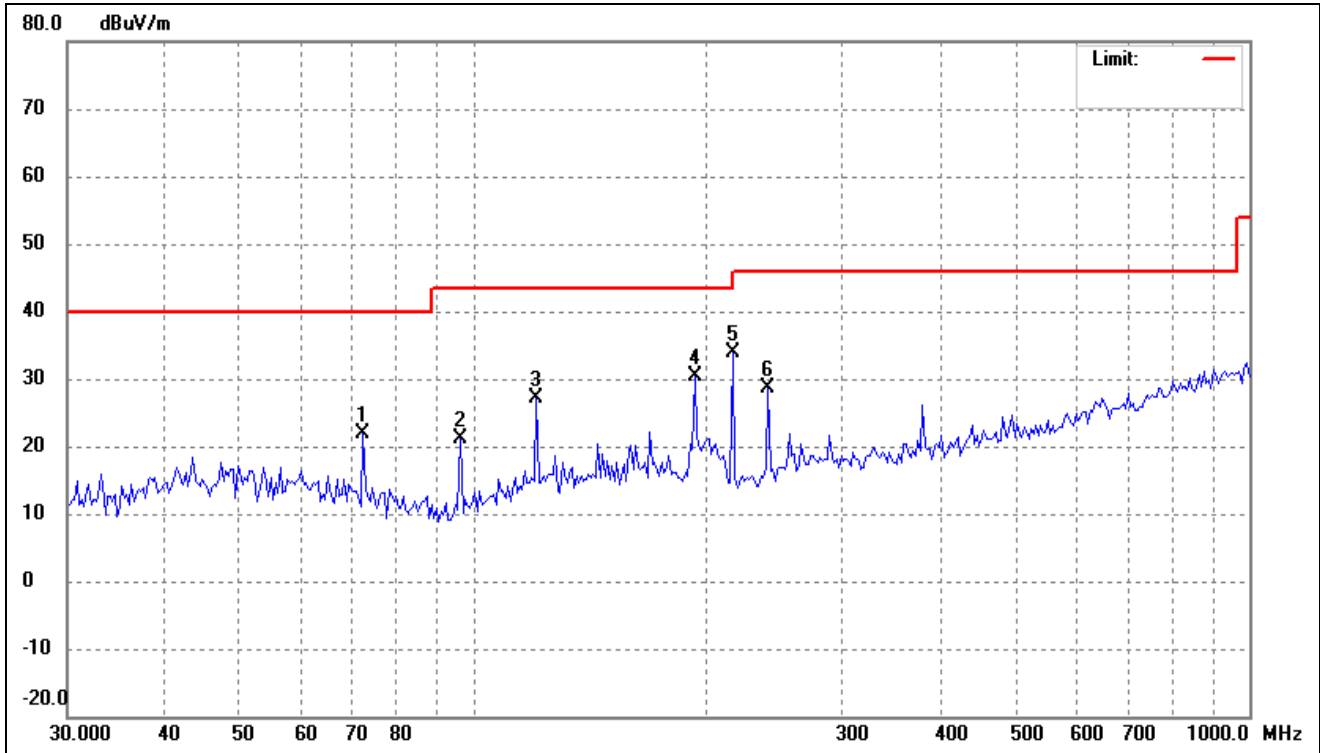
802.11a			
Test Channel	5180MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	56.8644	28.18	-9.30	18.88	40.00	-21.12	-	-	peak
2	101.8932	39.05	-13.23	25.82	43.50	-17.68	-	-	peak
3	216.1197	32.38	-11.66	20.72	46.00	-25.28	-	-	peak
4	433.3397	32.37	-5.51	26.86	46.00	-19.14	-	-	peak
5	655.9766	29.64	-1.30	28.34	46.00	-17.66	-	-	peak
6	952.0001	31.66	2.95	34.61	46.00	-11.39	-	-	peak

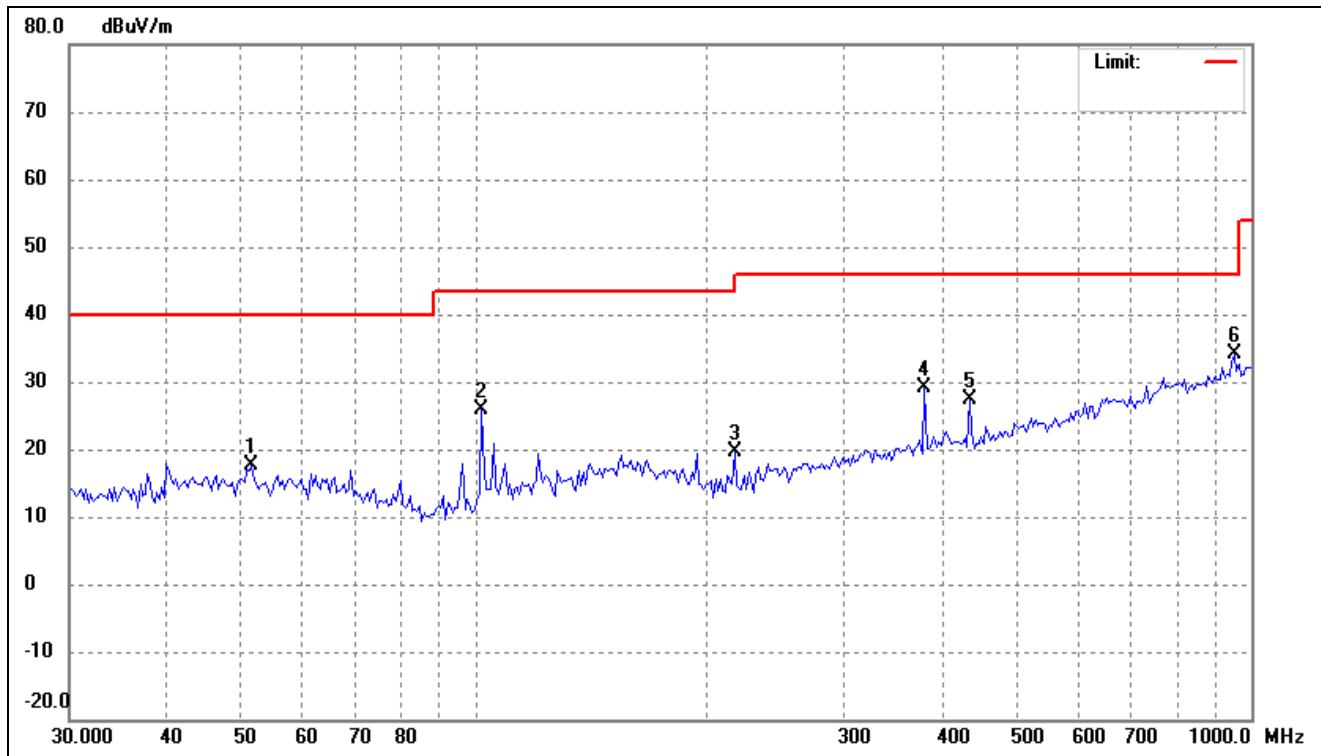
802.11n-HT20

Test Channel	5180MHz(worst case)	Polarity:	Horizontal
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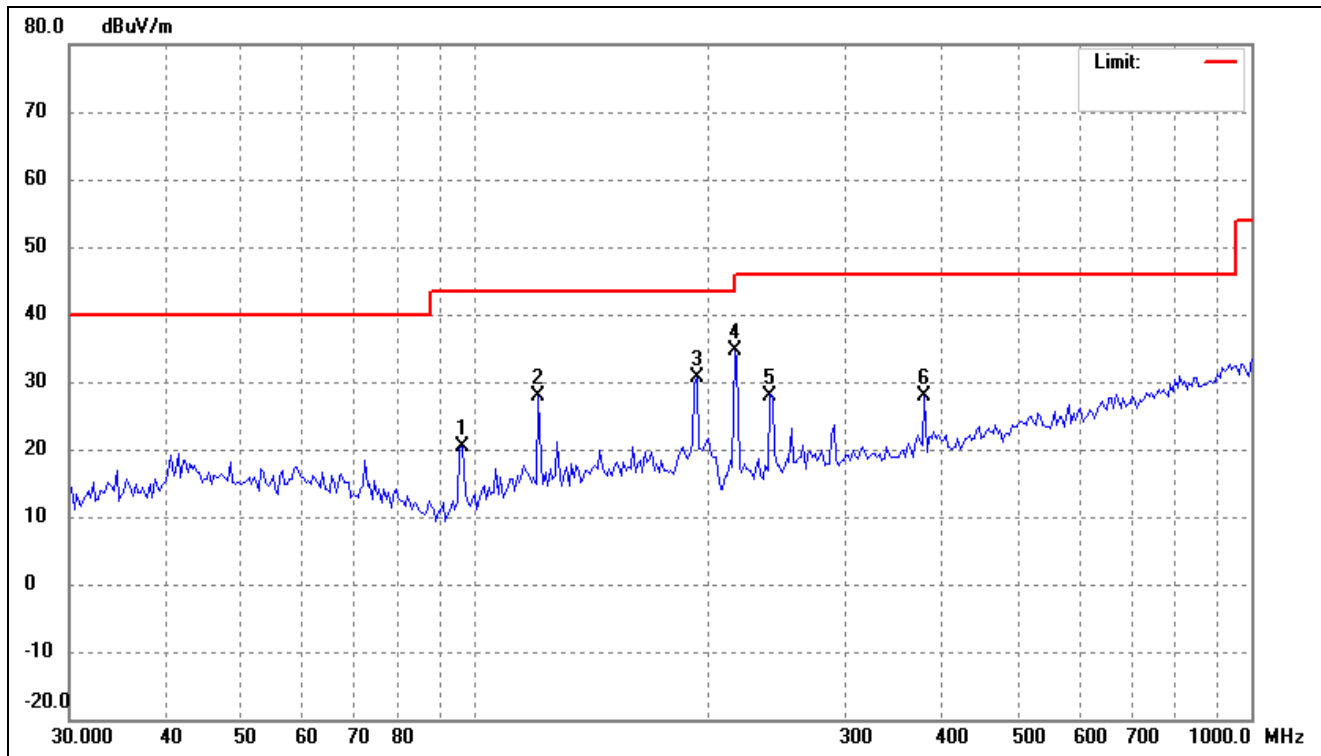
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	72.2111	33.32	-11.51	21.81	40.00	-18.19	-	-	peak
2	96.3230	35.31	-14.11	21.20	43.50	-22.30	-	-	peak
3	120.6118	37.90	-10.83	27.07	43.50	-16.43	-	-	peak
4	193.1366	41.75	-11.40	30.35	43.50	-13.15	-	-	peak
5	216.1197	45.62	-11.66	33.96	46.00	-12.04	-	-	peak
6	240.1442	38.71	-9.98	28.73	46.00	-17.27	-	-	peak

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



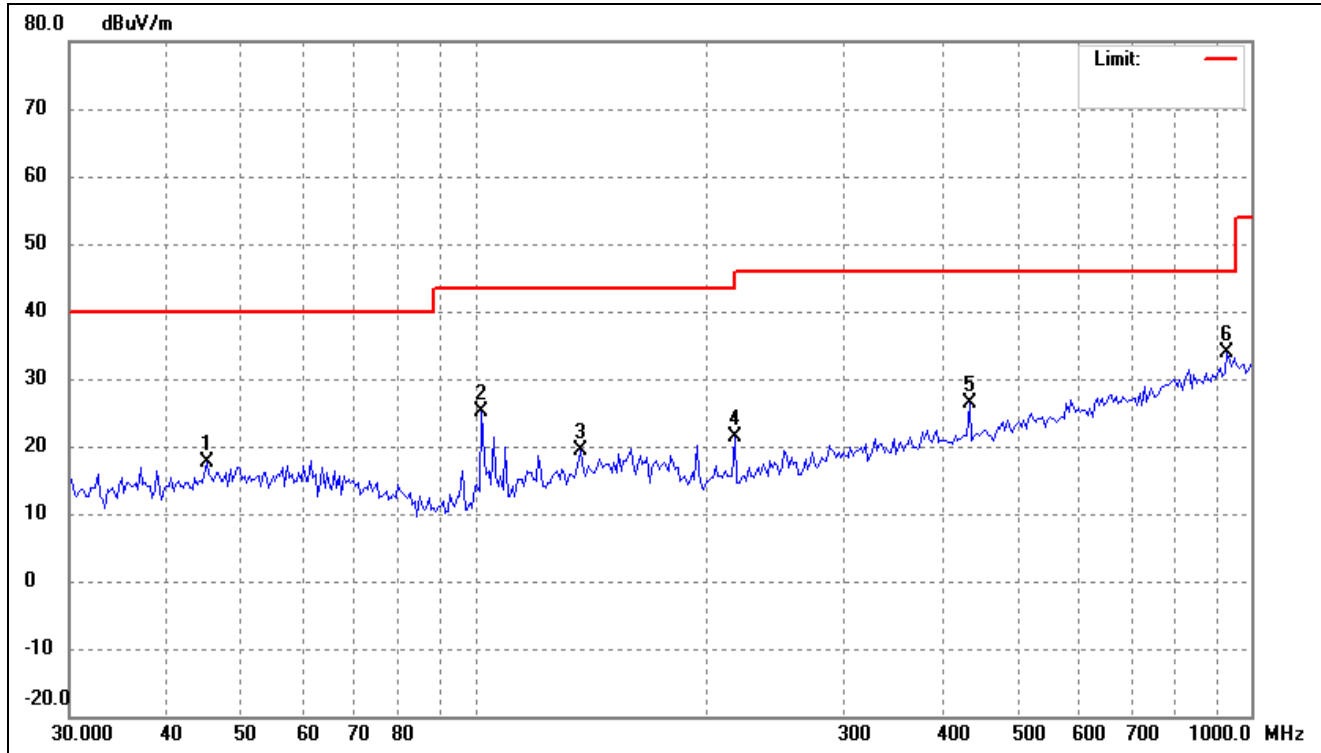
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	51.5365	26.58	-8.99	17.59	40.00	-22.41	-	-	peak
2	101.8932	39.02	-13.23	25.79	43.50	-17.71	-	-	peak
3	216.1197	31.34	-11.66	19.68	46.00	-26.32	-	-	peak
4	379.1780	35.56	-6.50	29.06	46.00	-16.94	-	-	peak
5	433.3397	32.81	-5.51	27.30	46.00	-18.70	-	-	peak
6	952.0001	31.19	2.95	34.14	46.00	-11.86	-	-	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	96.3230	34.48	-14.11	20.37	43.50	-23.13	-	-	peak
2	120.6118	38.69	-10.83	27.86	43.50	-15.64	-	-	peak
3	193.1366	41.94	-11.40	30.54	43.50	-12.96	-	-	peak
4	216.1197	46.23	-11.66	34.57	46.00	-11.43	-	-	peak
5	241.8377	37.77	-9.91	27.86	46.00	-18.14	-	-	peak
6	379.1780	34.41	-6.50	27.91	46.00	-18.09	-	-	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	45.0951	26.72	-9.07	17.65	40.00	-22.35	-	-	peak
2	101.8932	38.44	-13.23	25.21	43.50	-18.29	-	-	peak
3	136.8747	28.89	-9.56	19.33	43.50	-24.17	-	-	peak
4	216.1197	32.94	-11.66	21.28	46.00	-24.72	-	-	peak
5	433.3397	31.87	-5.51	26.36	46.00	-19.64	-	-	peak
6	932.1405	31.39	2.59	33.98	46.00	-12.02	-	-	peak

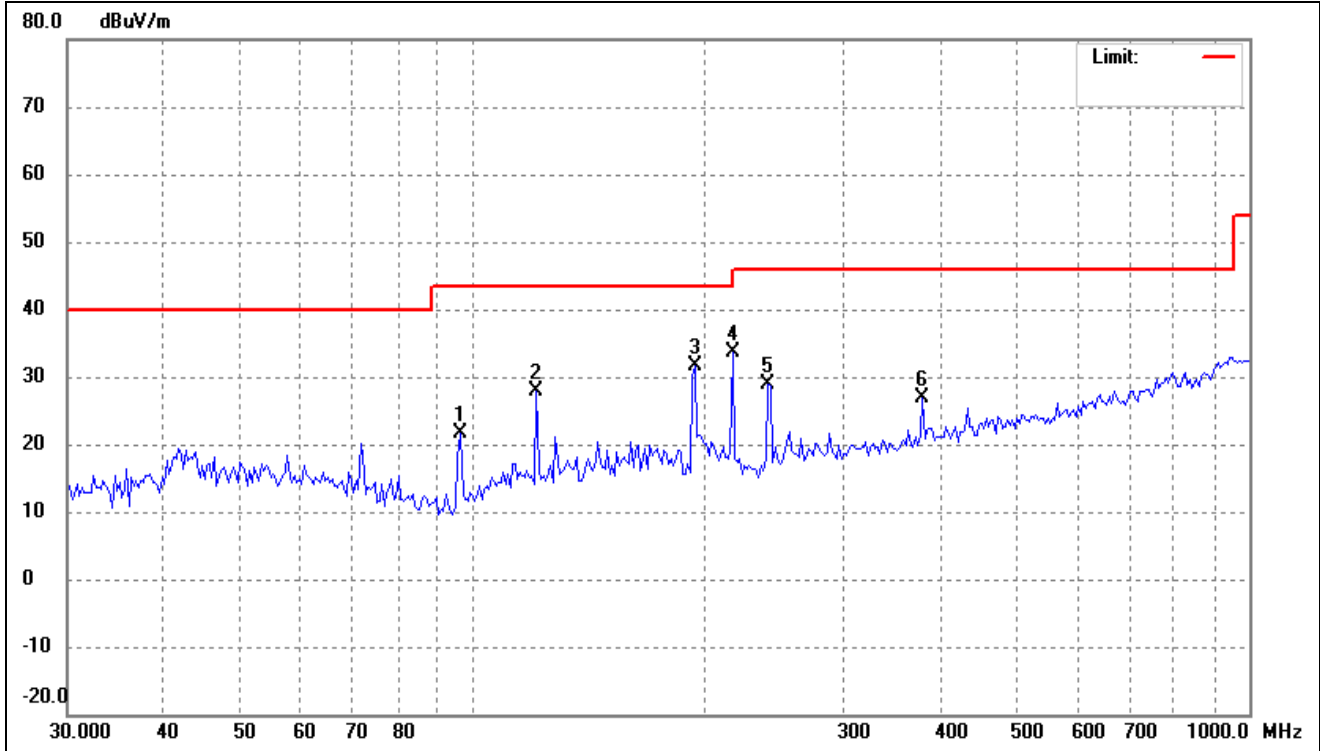
802.11ax-HE20

Test Channel

5180MHz(worst case)

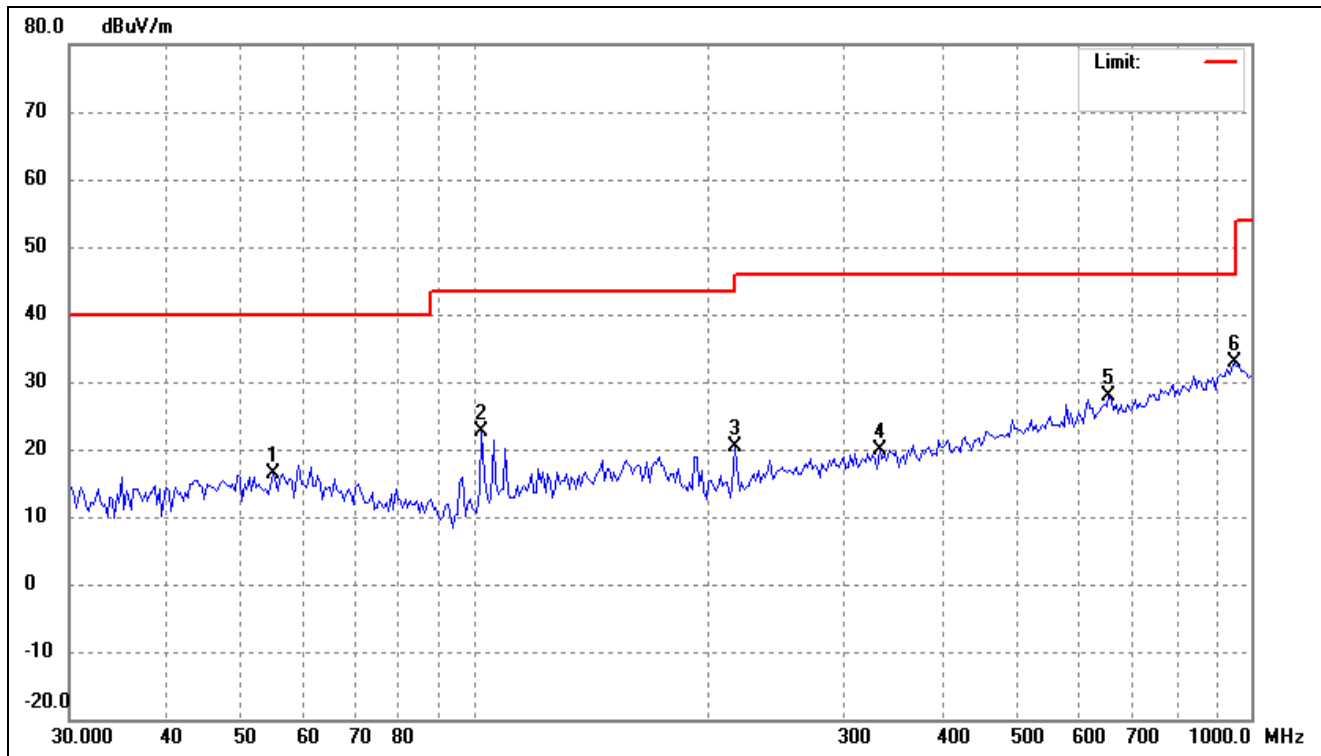
Polarity:

Horizontal



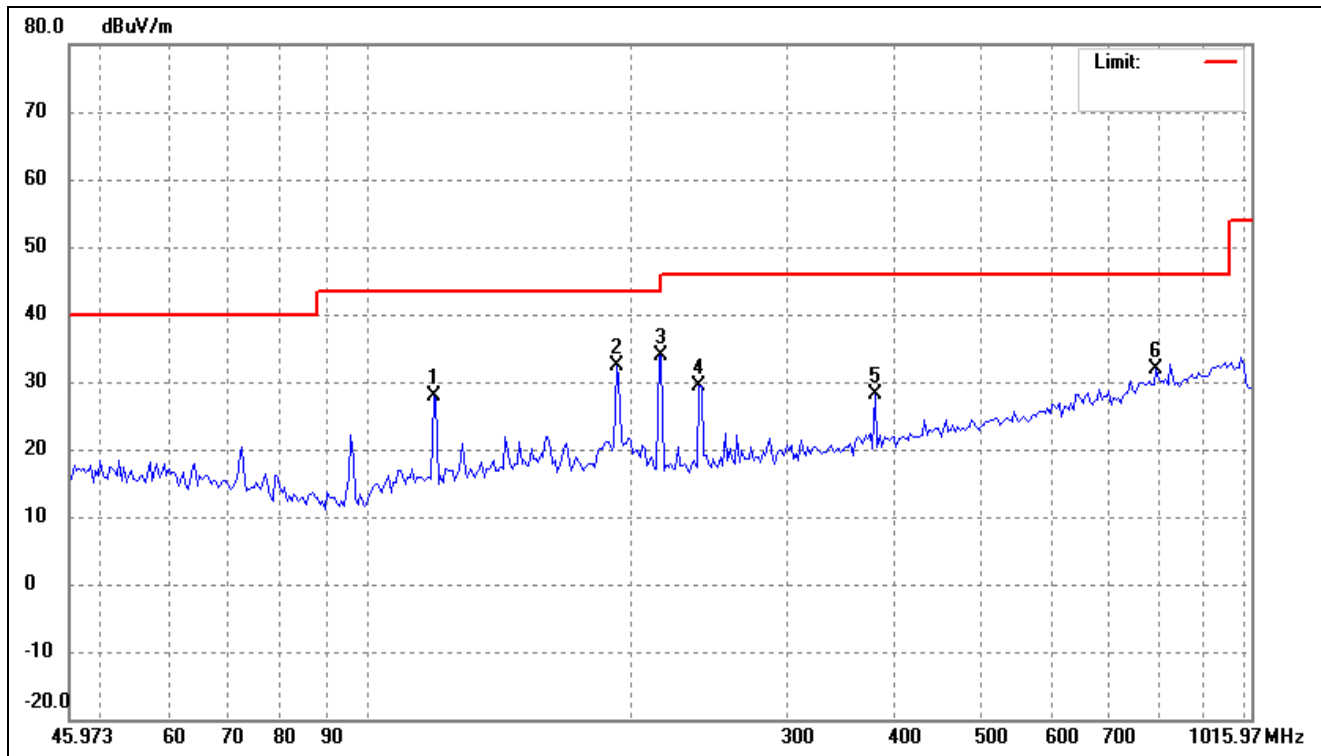
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	96.3230	35.64	-14.11	21.53	43.50	-21.97	-	-	peak
2	120.6118	38.79	-10.83	27.96	43.50	-15.54	-	-	peak
3	193.1366	42.99	-11.40	31.59	43.50	-11.91	-	-	peak
4	216.1197	45.39	-11.66	33.73	46.00	-12.27	-	-	peak
5	240.1442	38.98	-9.98	29.00	46.00	-17.00	-	-	peak
6	379.1780	33.34	-6.50	26.84	46.00	-19.16	-	-	peak

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



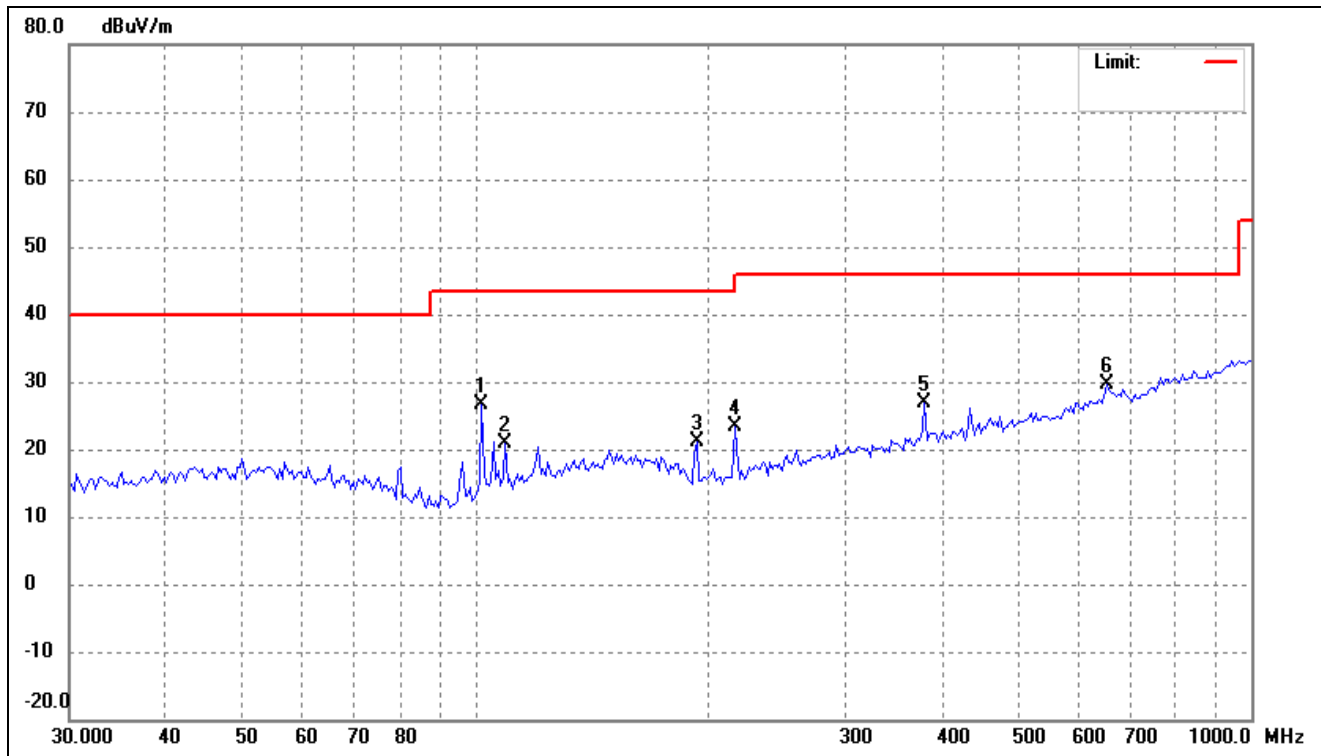
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	54.9011	25.56	-9.20	16.36	40.00	-23.64	-	-	peak
2	101.8932	35.91	-13.23	22.68	43.50	-20.82	-	-	peak
3	216.1197	31.97	-11.66	20.31	46.00	-25.69	-	-	peak
4	331.7858	26.89	-7.08	19.81	46.00	-26.19	-	-	peak
5	655.9766	29.08	-1.30	27.78	46.00	-18.22	-	-	peak
6	952.0001	30.02	2.95	32.97	46.00	-13.03	-	-	peak

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



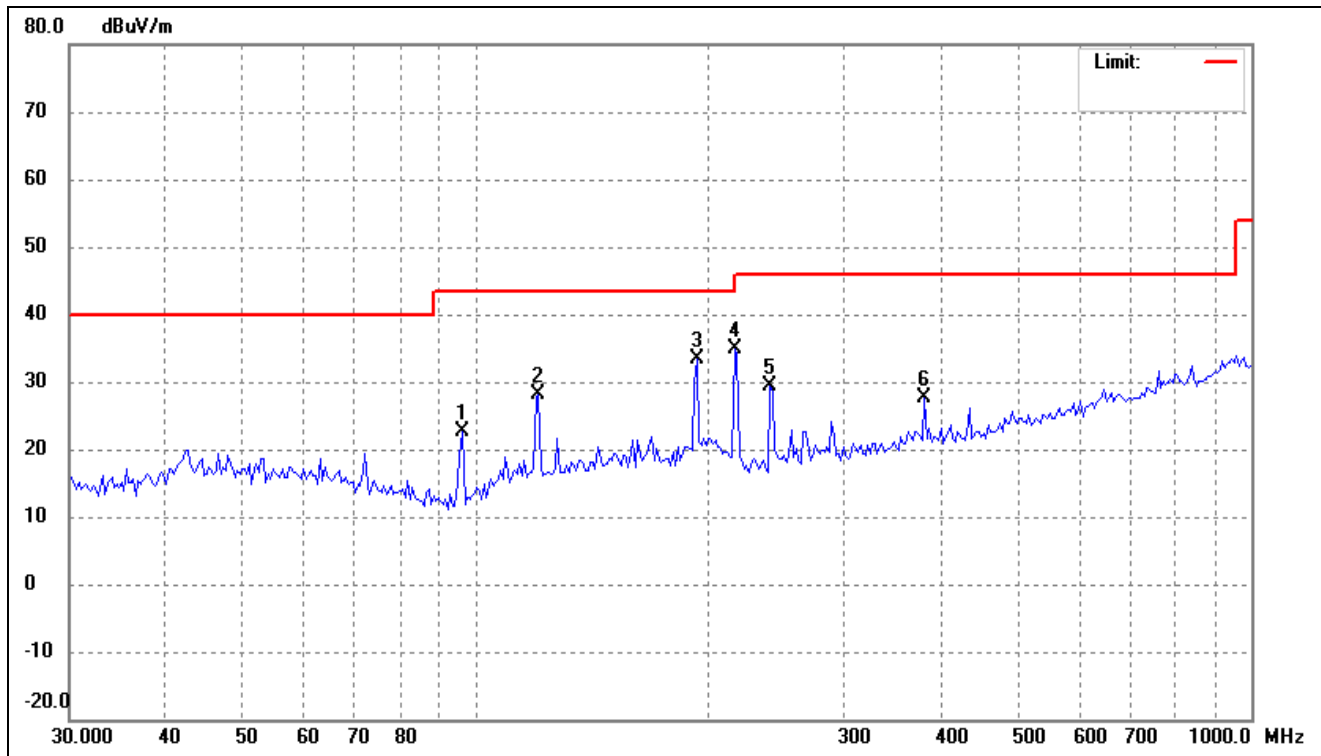
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	119.5099	38.81	-10.94	27.87	43.50	-15.63	-	-	peak
2	192.6871	43.83	-11.37	32.46	43.50	-11.04	-	-	peak
3	216.7910	45.63	-11.65	33.98	46.00	-12.02	-	-	peak
4	239.4129	39.46	-10.02	29.44	46.00	-16.56	-	-	peak
5	378.8907	34.57	-6.51	28.06	46.00	-17.94	-	-	peak
6	792.7143	31.11	0.89	32.00	46.00	-14.00	-	-	peak

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



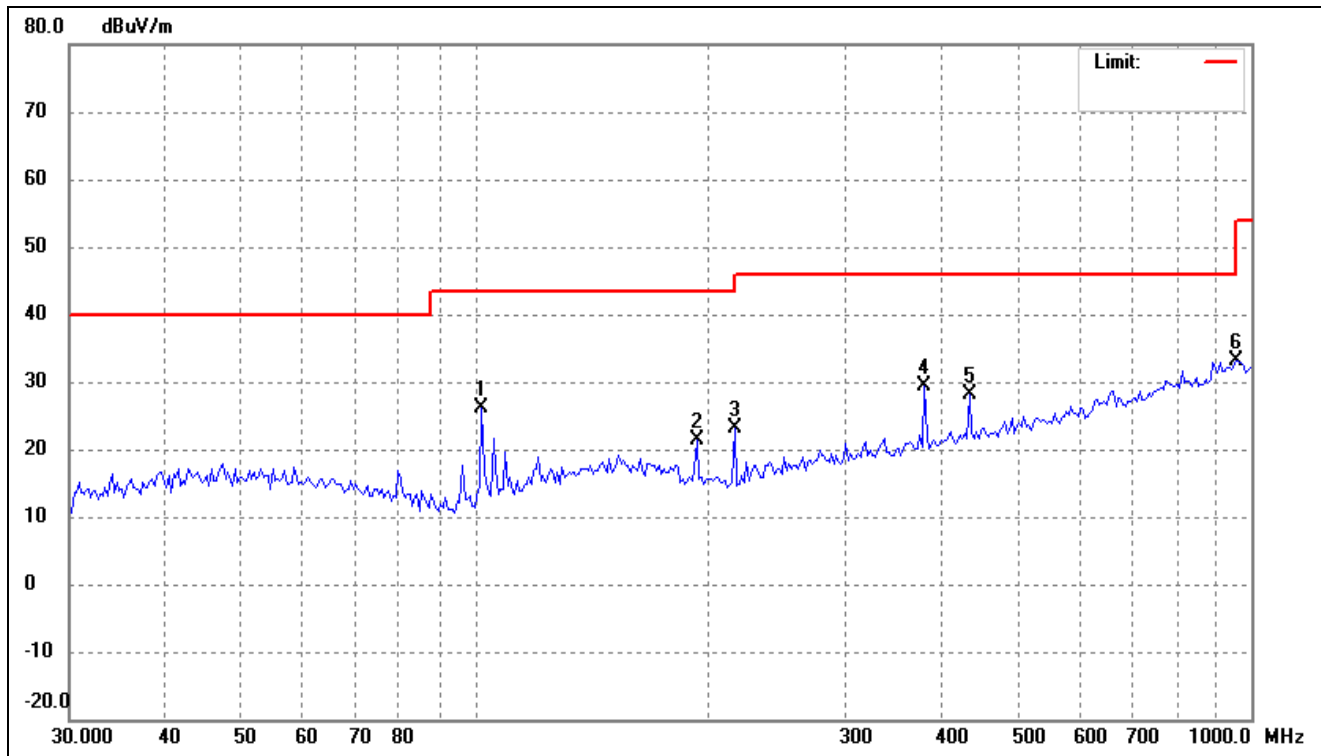
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	101.8932	39.88	-13.23	26.65	43.50	-16.85	-	-	peak
2	109.3110	32.84	-12.05	20.79	43.50	-22.71	-	-	peak
3	193.1366	32.45	-11.40	21.05	43.50	-22.45	-	-	peak
4	216.1197	35.13	-11.66	23.47	46.00	-22.53	-	-	peak
5	379.1780	33.42	-6.50	26.92	46.00	-19.08	-	-	peak
6	651.3831	30.87	-1.33	29.54	46.00	-16.46	-	-	peak

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



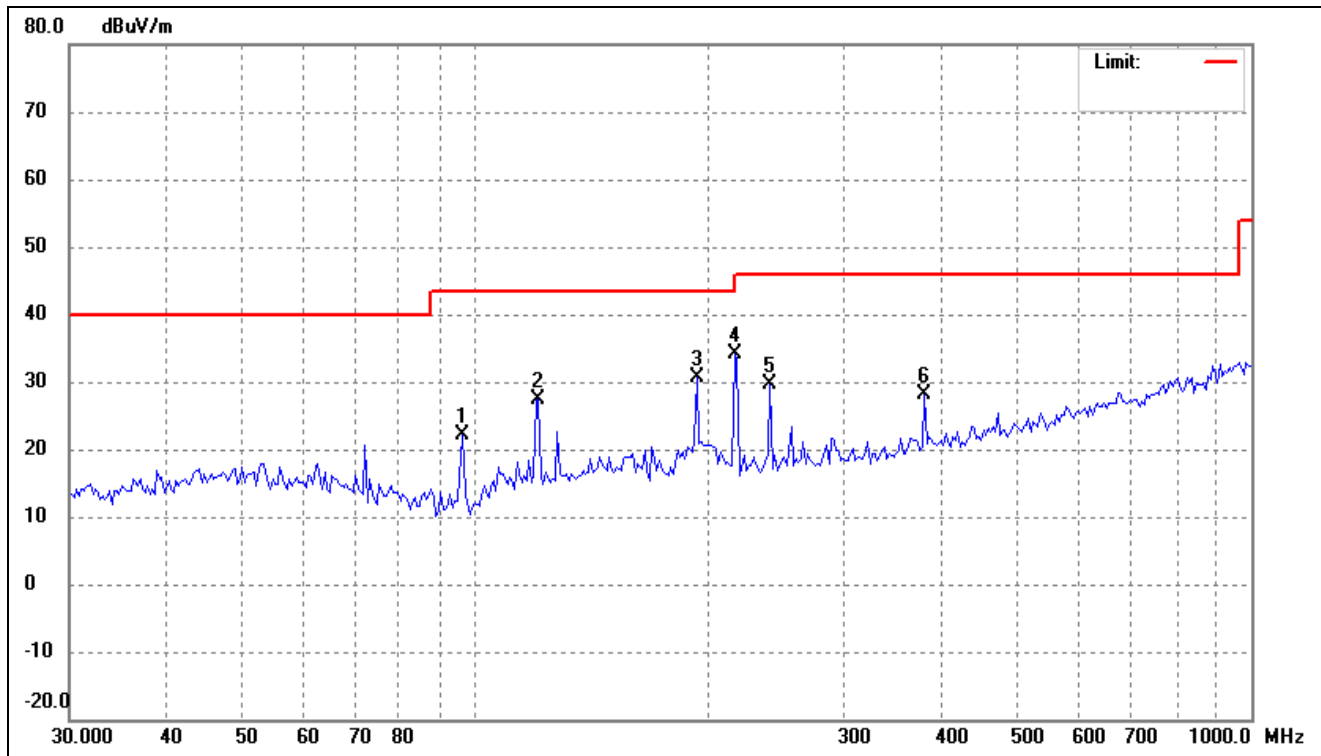
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	96.3230	36.72	-14.11	22.61	43.50	-20.89	-	-	peak
2	120.6118	39.06	-10.83	28.23	43.50	-15.27	-	-	peak
3	193.1366	44.85	-11.40	33.45	43.50	-10.05	-	-	peak
4	216.1197	46.48	-11.66	34.82	46.00	-11.18	-	-	peak
5	240.1442	39.46	-9.98	29.48	46.00	-16.52	-	-	peak
6	379.1780	34.05	-6.50	27.55	46.00	-18.45	-	-	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	101.8932	39.48	-13.23	26.25	43.50	-17.25	-	-	peak
2	193.1366	32.80	-11.40	21.40	43.50	-22.10	-	-	peak
3	216.1197	34.87	-11.66	23.21	46.00	-22.79	-	-	peak
4	379.1780	35.91	-6.50	29.41	46.00	-16.59	-	-	peak
5	433.3397	33.65	-5.51	28.14	46.00	-17.86	-	-	peak
6	958.7135	30.04	2.97	33.01	46.00	-12.99	-	-	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	96.3230	36.15	-14.11	22.04	43.50	-21.46	-	-	peak
2	120.6118	38.31	-10.83	27.48	43.50	-16.02	-	-	peak
3	193.1366	41.95	-11.40	30.55	43.50	-12.95	-	-	peak
4	216.1197	45.86	-11.66	34.20	46.00	-11.80	-	-	peak
5	240.1442	39.58	-9.98	29.60	46.00	-16.40	-	-	peak
6	379.1780	34.70	-6.50	28.20	46.00	-17.80	-	-	peak

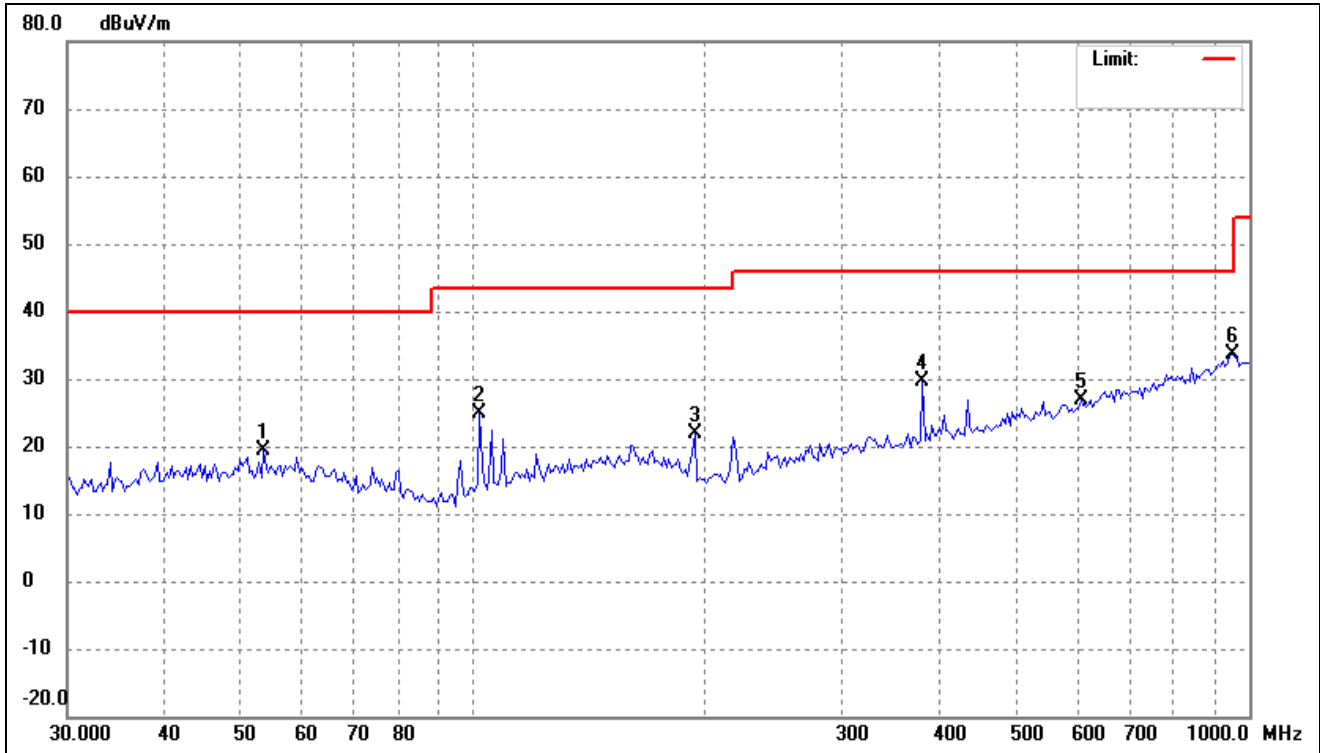
802.11ax-HE40

Test Channel

5190MHz(worst case)

Polarity:

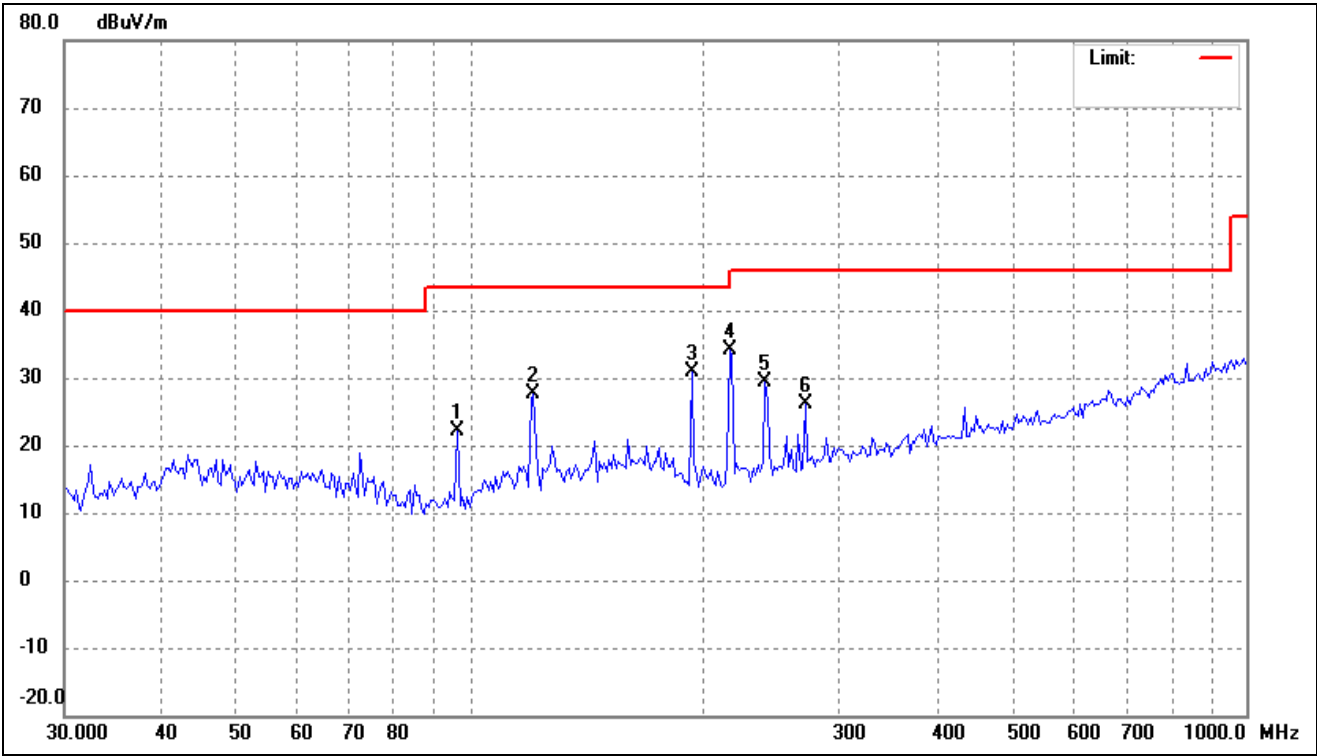
Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	53.7559	28.39	-9.11	19.28	40.00	-20.72	-	-	peak
2	101.8932	38.15	-13.23	24.92	43.50	-18.58	-	-	peak
3	193.1366	33.28	-11.40	21.88	43.50	-21.62	-	-	peak
4	379.1780	36.08	-6.50	29.58	46.00	-16.42	-	-	peak
5	607.1806	28.99	-2.07	26.92	46.00	-19.08	-	-	peak
6	952.0001	30.77	2.95	33.72	46.00	-12.28	-	-	peak

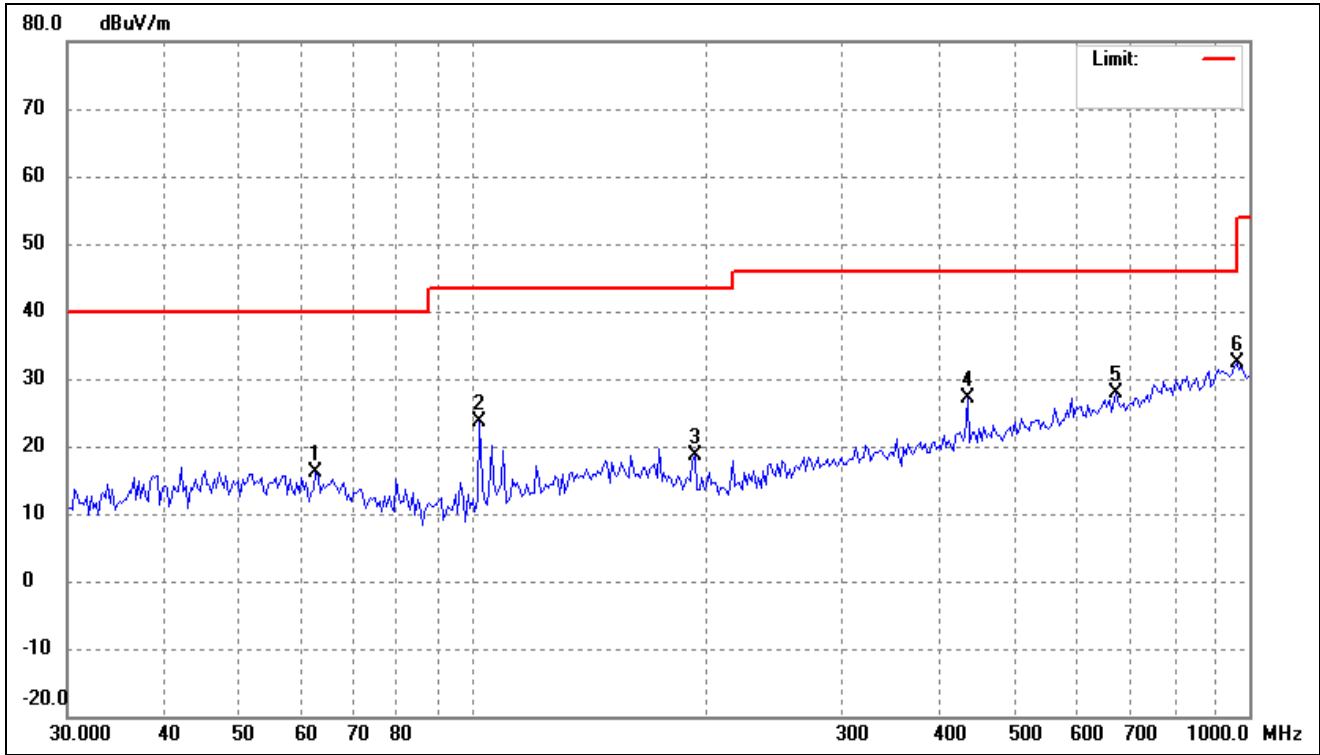
➤ 5725-5850MHz

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



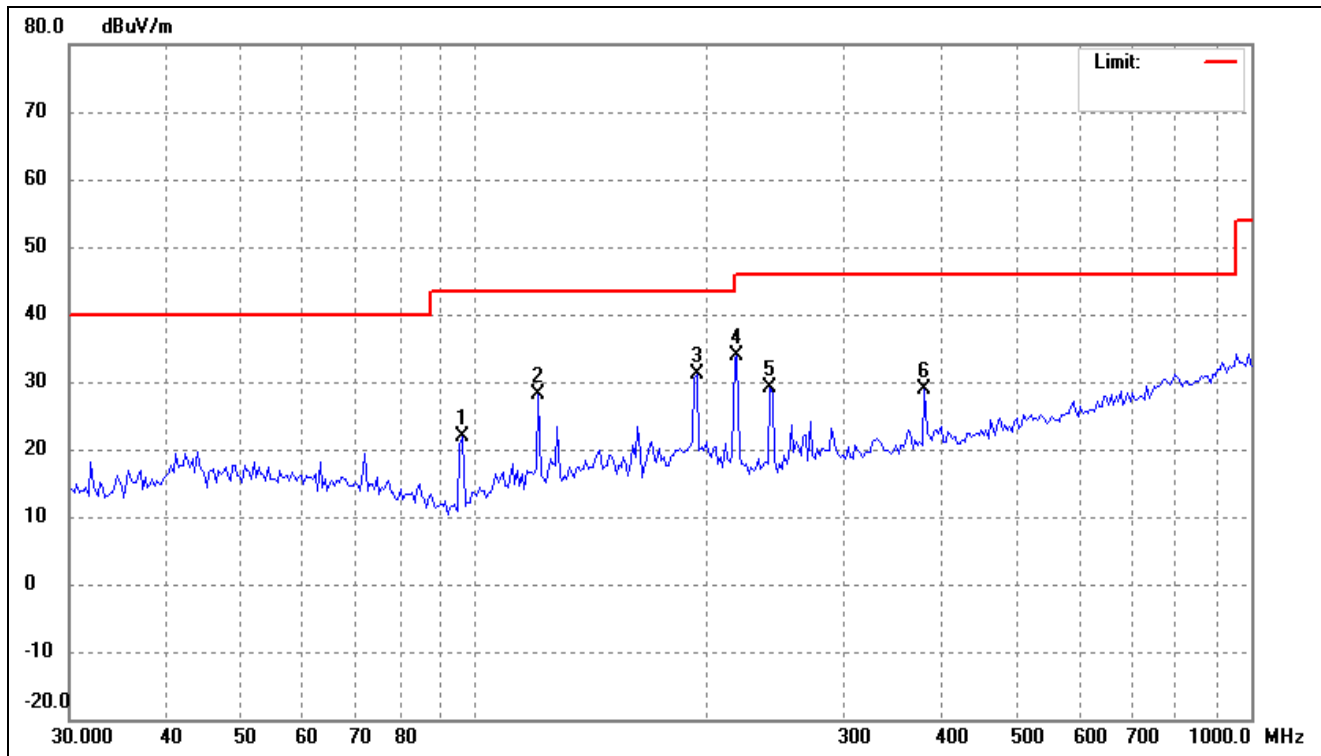
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	96.3230	36.14	-14.11	22.03	43.50	-21.47	-	-	peak
2	120.6118	38.43	-10.83	27.60	43.50	-15.90	-	-	peak
3	193.1366	42.32	-11.40	30.92	43.50	-12.58	-	-	peak
4	216.1197	45.75	-11.66	34.09	46.00	-11.91	-	-	peak
5	240.1442	39.47	-9.98	29.49	46.00	-16.51	-	-	peak
6	270.6162	34.88	-8.77	26.11	46.00	-19.89	-	-	peak

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



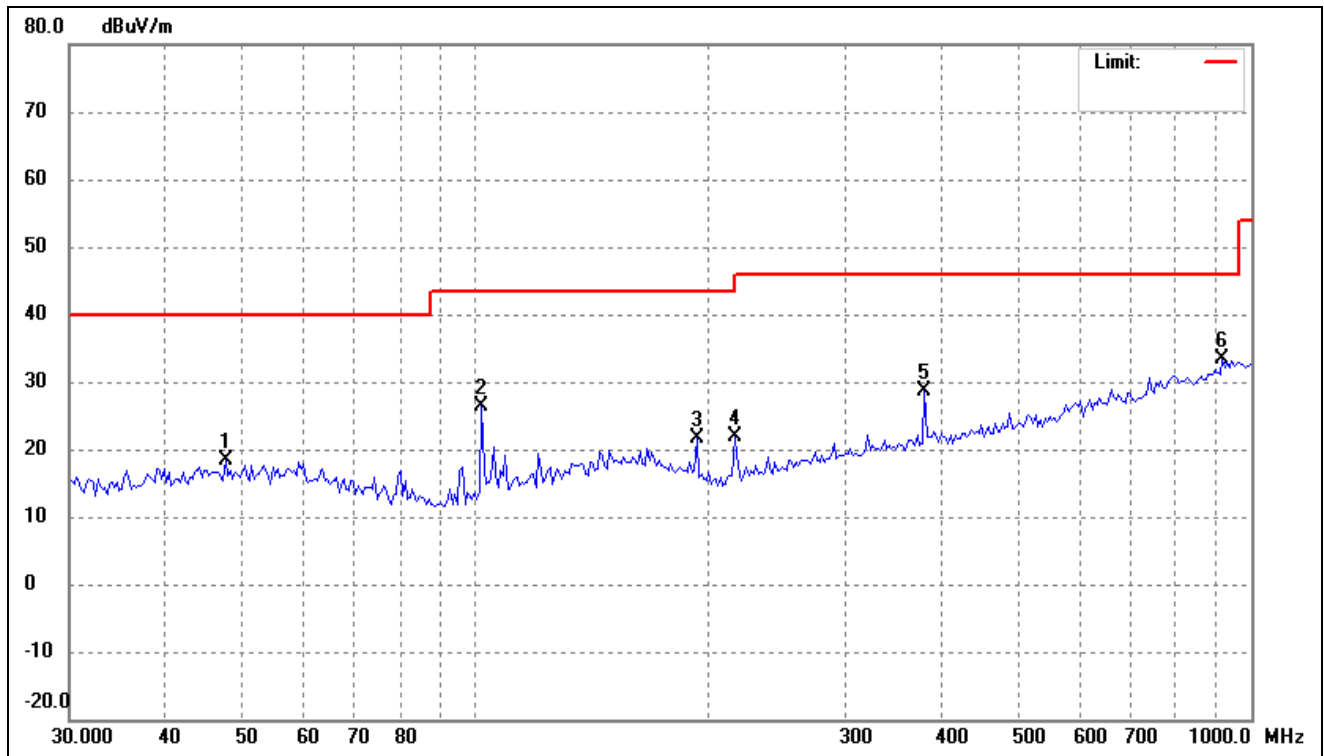
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	62.7432	26.06	-9.92	16.14	40.00	-23.86	-	-	peak
2	101.8932	36.92	-13.23	23.69	43.50	-19.81	-	-	peak
3	193.1366	29.95	-11.40	18.55	43.50	-24.95	-	-	peak
4	433.3397	32.64	-5.51	27.13	46.00	-18.87	-	-	peak
5	674.6768	28.99	-1.14	27.85	46.00	-18.15	-	-	peak
6	965.4742	29.32	2.98	32.30	54.00	-21.70	-	-	peak

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



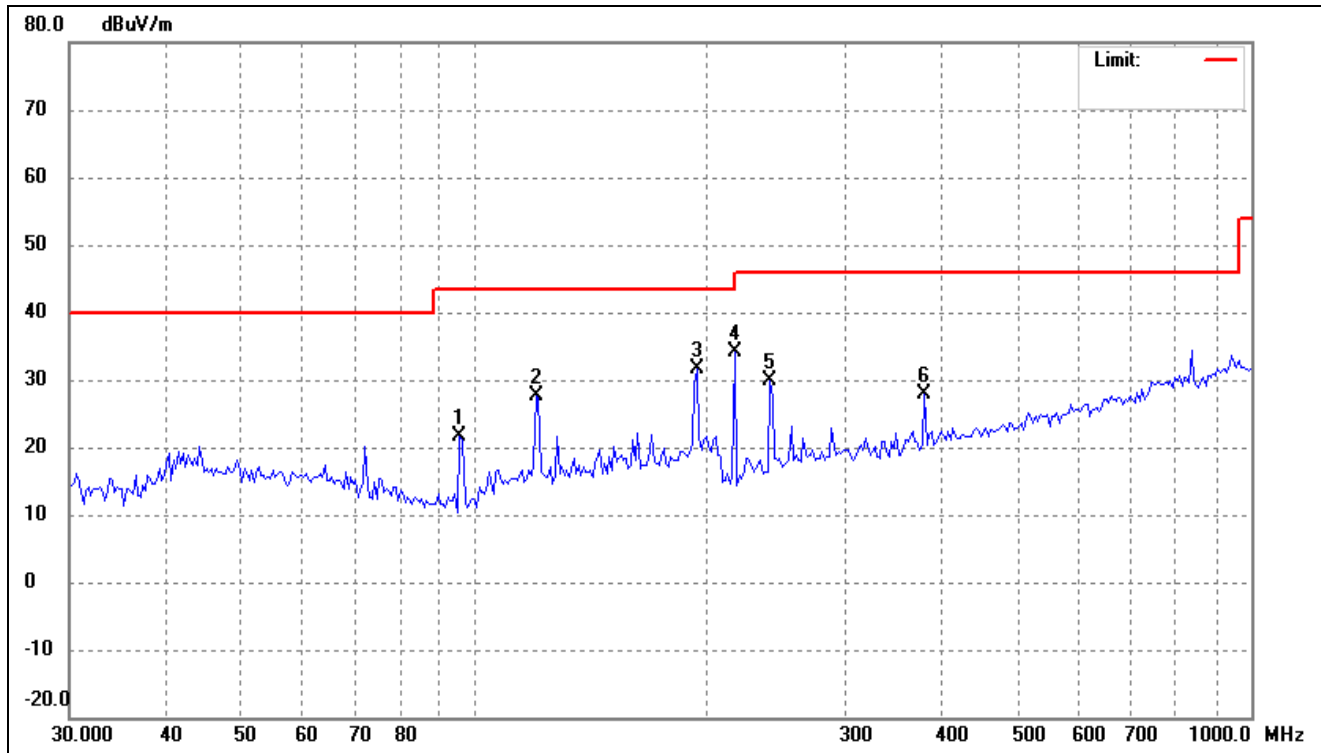
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	96.3230	35.95	-14.11	21.84	43.50	-21.66	-	-	peak
2	120.6118	39.05	-10.83	28.22	43.50	-15.28	-	-	peak
3	193.1366	42.52	-11.40	31.12	43.50	-12.38	-	-	peak
4	217.6437	45.49	-11.64	33.85	46.00	-12.15	-	-	peak
5	240.1442	39.23	-9.98	29.25	46.00	-16.75	-	-	peak
6	379.1780	35.27	-6.50	28.77	46.00	-17.23	-	-	peak

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



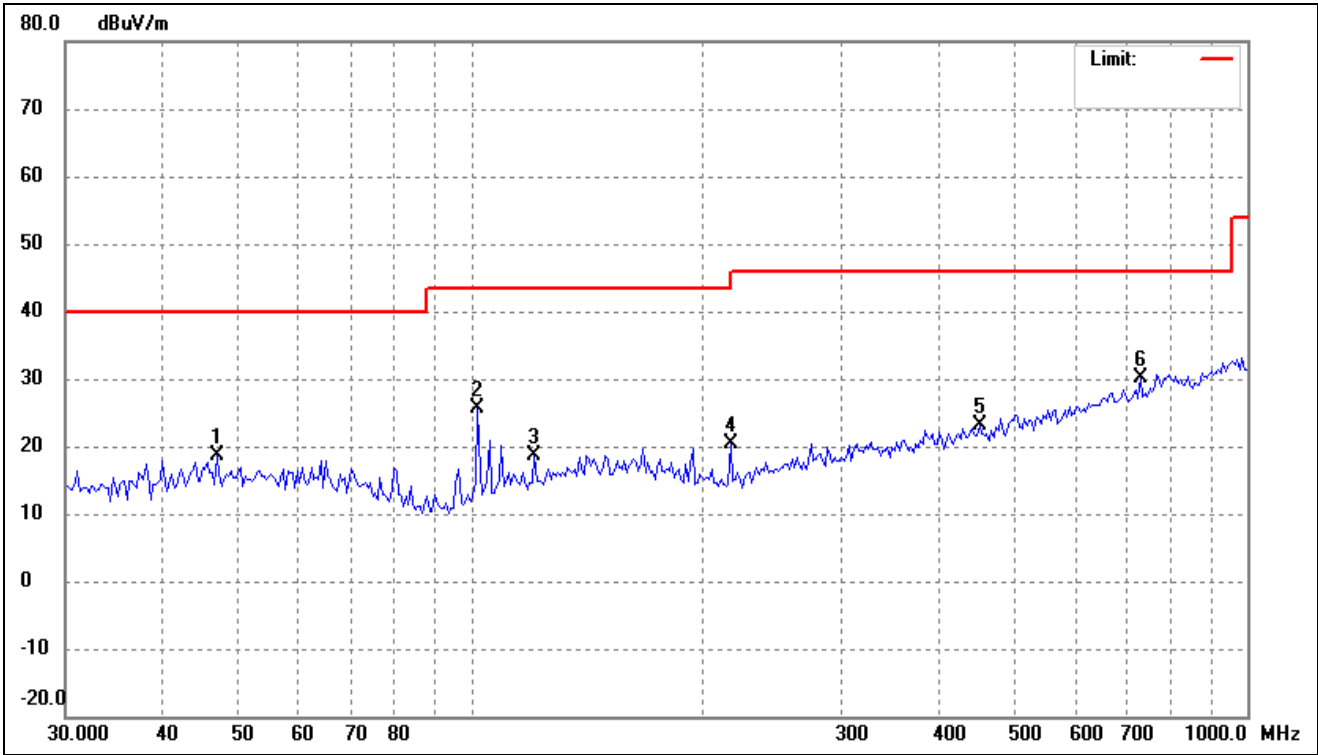
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	47.7028	27.49	-9.02	18.47	40.00	-21.53	-	-	peak
2	101.8932	39.67	-13.23	26.44	43.50	-17.06	-	-	peak
3	193.1366	32.98	-11.40	21.58	43.50	-21.92	-	-	peak
4	216.1197	33.53	-11.66	21.87	46.00	-24.13	-	-	peak
5	379.1780	35.12	-6.50	28.62	46.00	-17.38	-	-	peak
6	919.1315	31.07	2.33	33.40	46.00	-12.60	-	-	peak

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



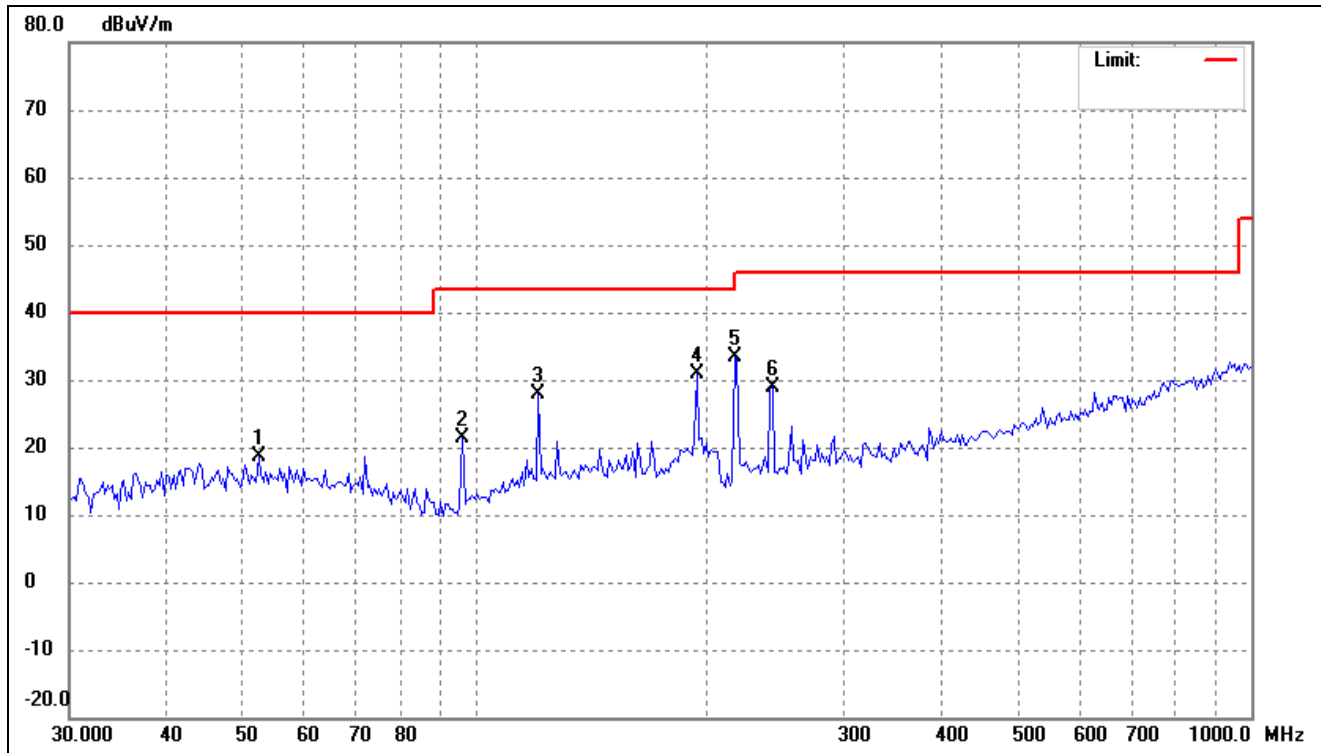
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	95.6485	35.76	-14.19	21.57	43.50	-21.93	-	-	peak
2	119.7672	38.44	-10.91	27.53	43.50	-15.97	-	-	peak
3	193.1366	42.98	-11.40	31.58	43.50	-11.92	-	-	peak
4	216.1197	45.74	-11.66	34.08	46.00	-11.92	-	-	peak
5	240.1442	39.87	-9.98	29.89	46.00	-16.11	-	-	peak
6	379.1780	34.30	-6.50	27.80	46.00	-18.20	-	-	peak

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



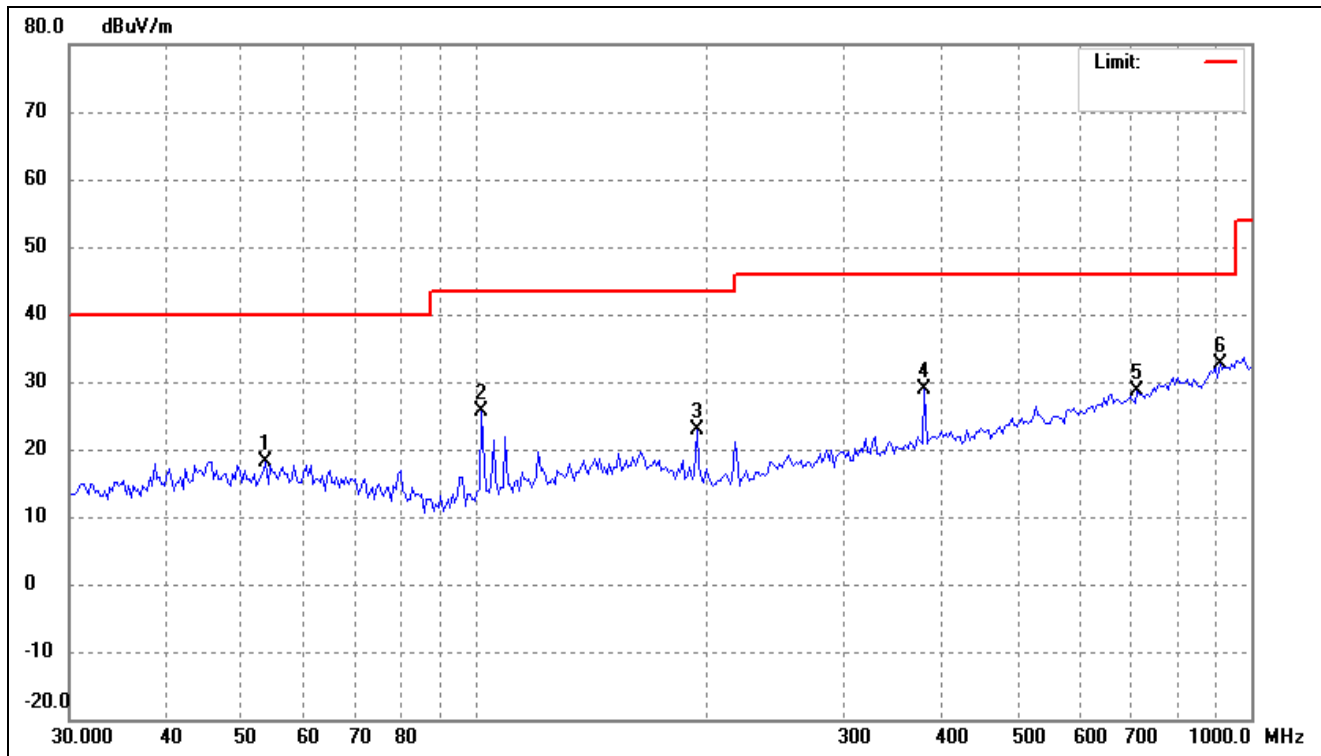
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	47.0371	27.53	-9.01	18.52	40.00	-21.48	-	-	peak
2	101.8932	38.84	-13.23	25.61	43.50	-17.89	-	-	peak
3	120.6118	29.54	-10.83	18.71	43.50	-24.79	-	-	peak
4	216.1197	32.00	-11.66	20.34	46.00	-25.66	-	-	peak
5	452.0013	27.99	-4.96	23.03	46.00	-22.97	-	-	peak
6	728.8971	30.45	-0.30	30.15	46.00	-15.85	-	-	peak

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



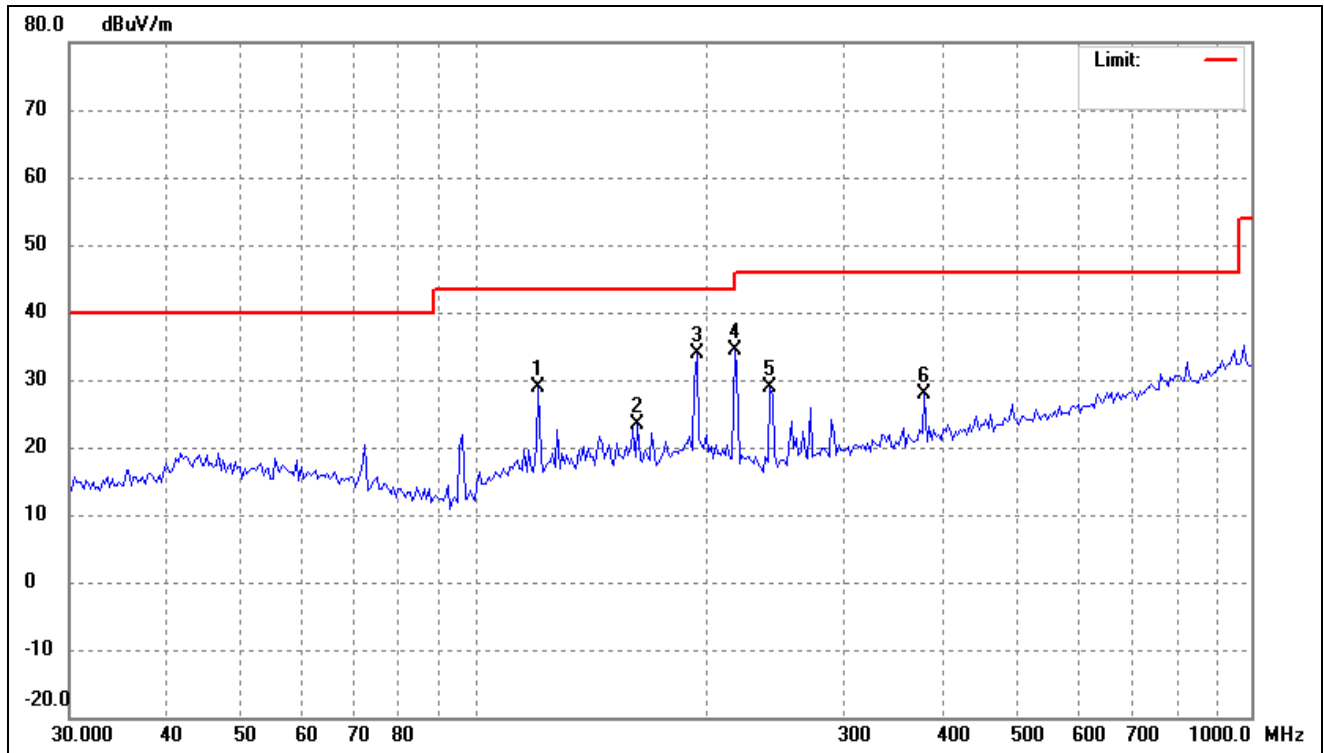
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	52.6345	27.70	-9.04	18.66	40.00	-21.34	-	-	peak
2	96.3230	35.38	-14.11	21.27	43.50	-22.23	-	-	peak
3	120.6118	38.78	-10.83	27.95	43.50	-15.55	-	-	peak
4	193.1366	42.24	-11.40	30.84	43.50	-12.66	-	-	peak
5	216.1197	45.04	-11.66	33.38	46.00	-12.62	-	-	peak
6	241.8377	38.78	-9.91	28.87	46.00	-17.13	-	-	peak

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



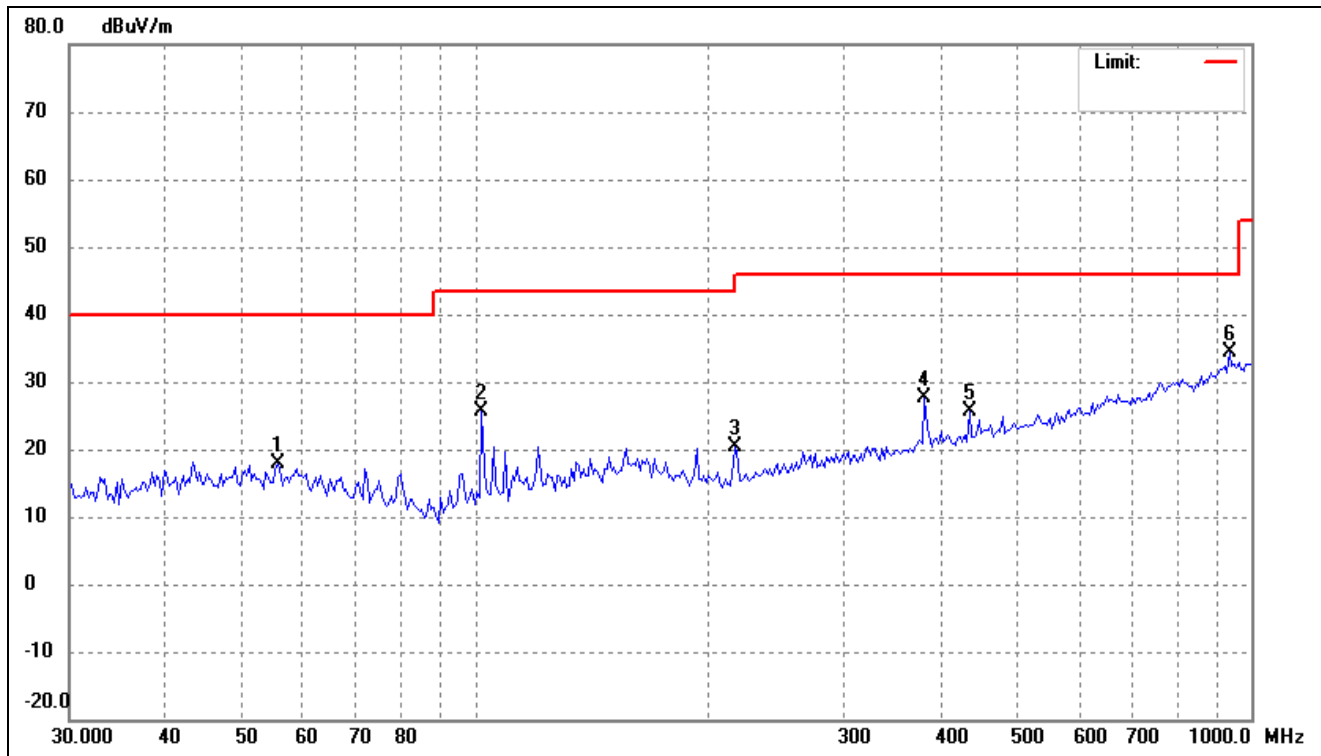
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	53.7559	27.34	-9.11	18.23	40.00	-21.77	-	-	peak
2	101.8932	38.77	-13.23	25.54	43.50	-17.96	-	-	peak
3	193.1366	34.31	-11.40	22.91	43.50	-20.59	-	-	peak
4	379.1780	35.45	-6.50	28.95	46.00	-17.05	-	-	peak
5	713.6917	29.24	-0.66	28.58	46.00	-17.42	-	-	peak
6	912.6953	30.43	2.22	32.65	46.00	-13.35	-	-	peak

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



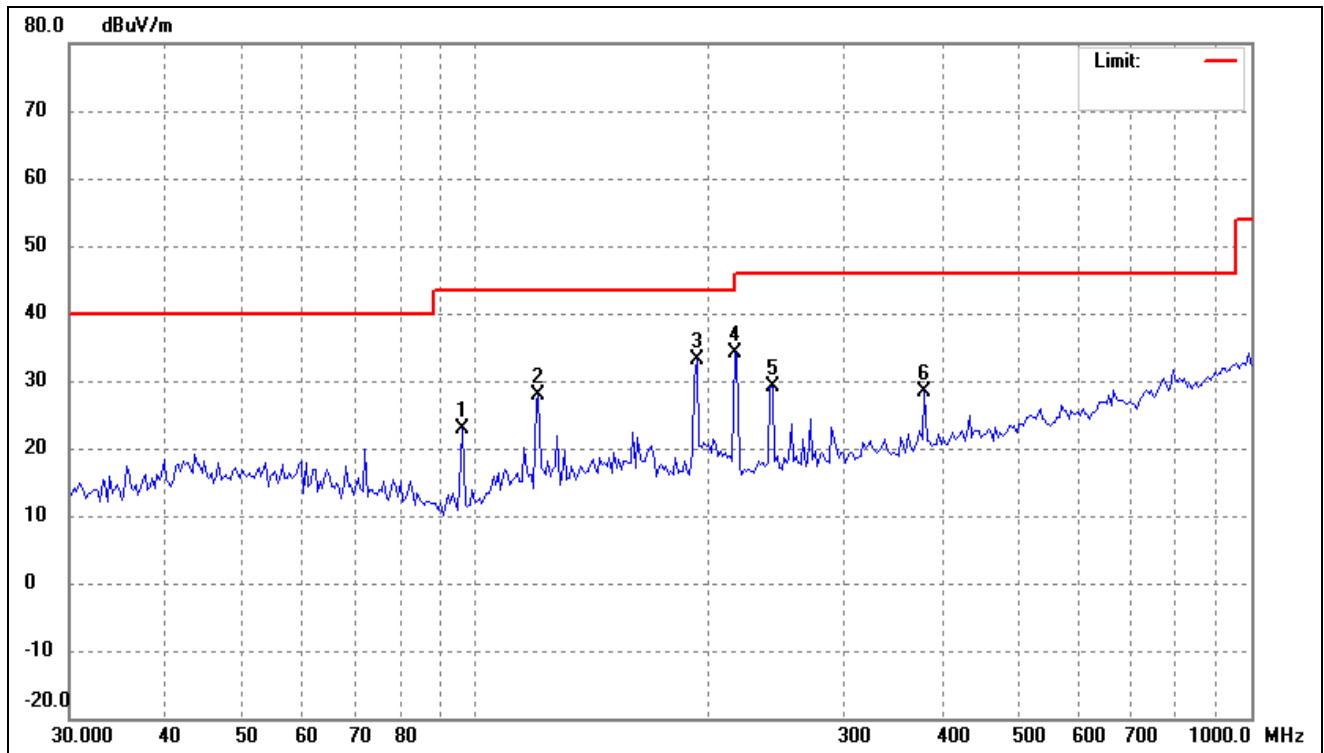
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	120.6118	39.82	-10.83	28.99	43.50	-14.51	-	-	peak
2	162.0197	31.90	-8.53	23.37	43.50	-20.13	-	-	peak
3	193.1366	45.22	-11.40	33.82	43.50	-9.68	-	-	peak
4	216.1197	45.92	-11.66	34.26	46.00	-11.74	-	-	peak
5	240.1442	38.96	-9.98	28.98	46.00	-17.02	-	-	peak
6	379.1780	34.50	-6.50	28.00	46.00	-18.00	-	-	peak

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



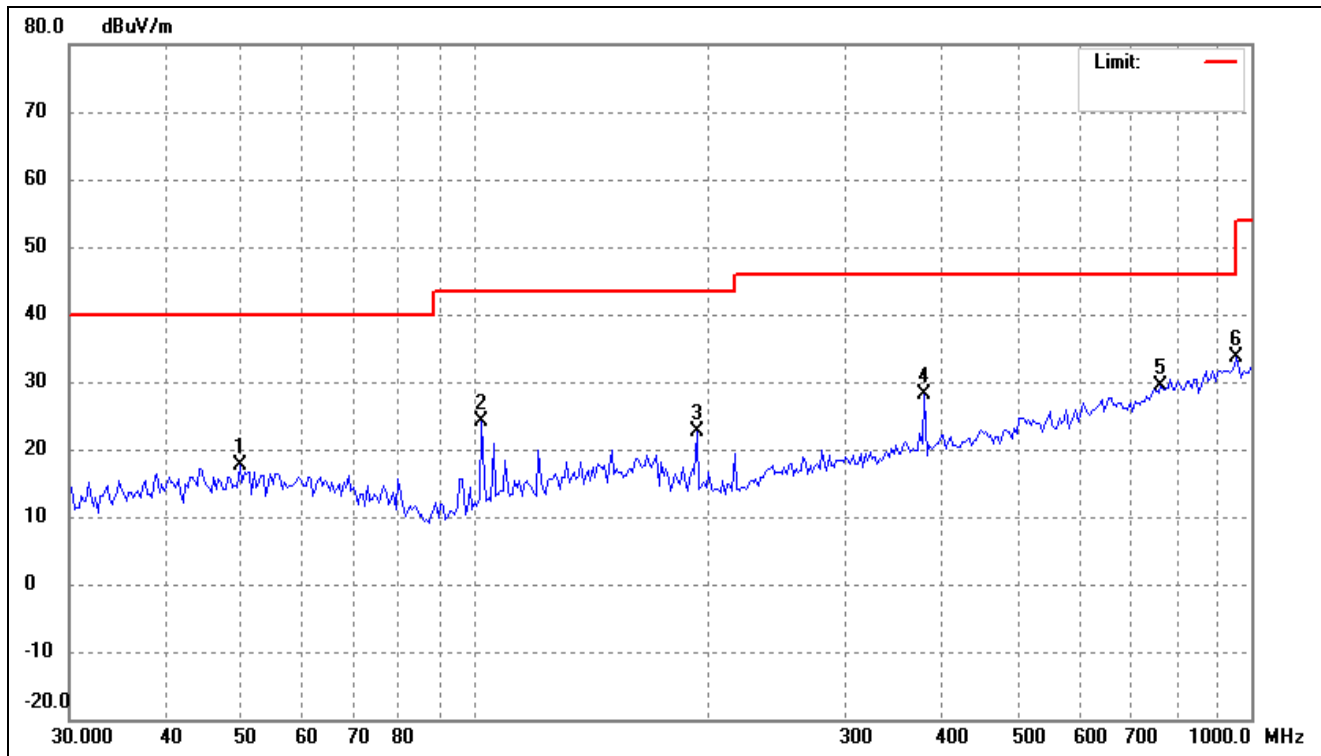
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	55.6782	27.24	-9.24	18.00	40.00	-22.00	-	-	peak
2	101.8932	38.74	-13.23	25.51	43.50	-17.99	-	-	peak
3	216.1197	31.94	-11.66	20.28	46.00	-25.72	-	-	peak
4	379.1780	34.06	-6.50	27.56	46.00	-18.44	-	-	peak
5	433.3397	31.07	-5.51	25.56	46.00	-20.44	-	-	peak
6	938.7139	31.63	2.72	34.35	46.00	-11.65	-	-	peak

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



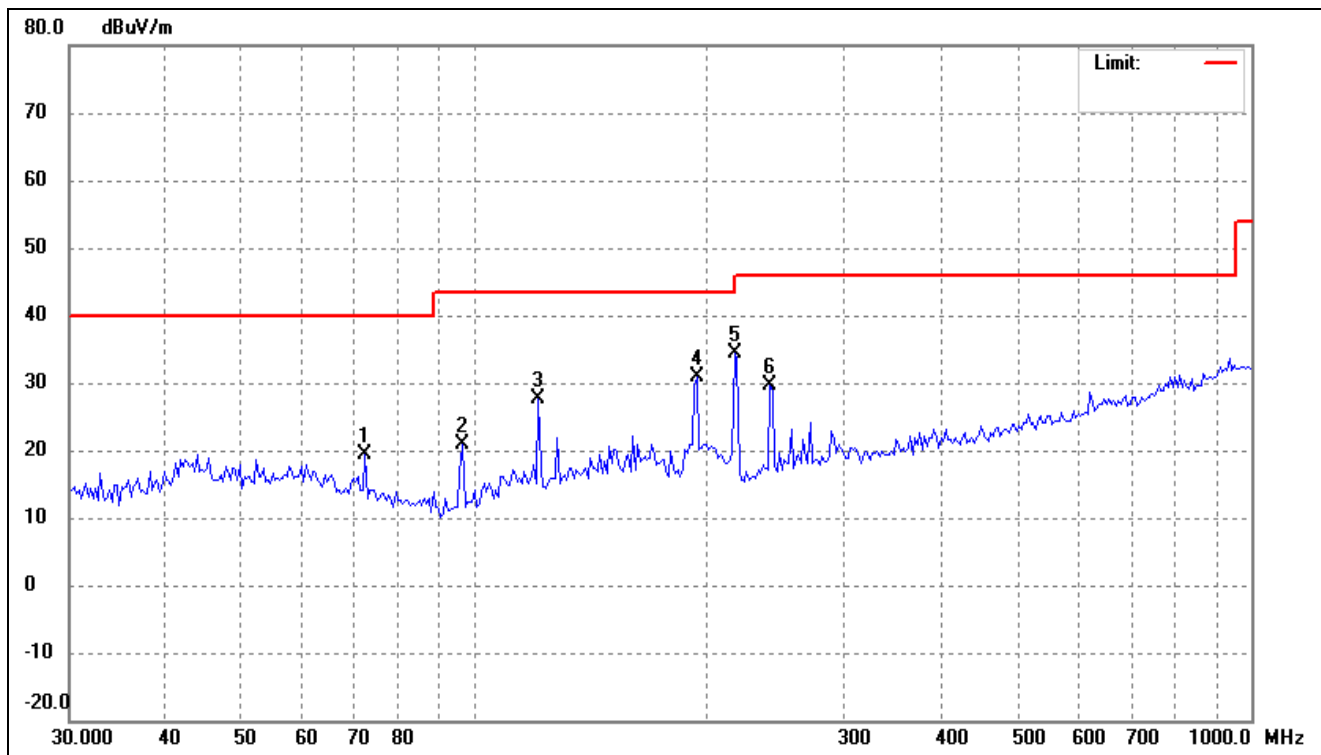
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	96.3230	37.11	-14.11	23.00	43.50	-20.50	-	-	peak
2	120.6118	38.72	-10.83	27.89	43.50	-15.61	-	-	peak
3	193.1366	44.57	-11.40	33.17	43.50	-10.33	-	-	peak
4	216.1197	45.87	-11.66	34.21	46.00	-11.79	-	-	peak
5	241.8377	39.08	-9.91	29.17	46.00	-16.83	-	-	peak
6	379.1780	34.86	-6.50	28.36	46.00	-17.64	-	-	peak

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



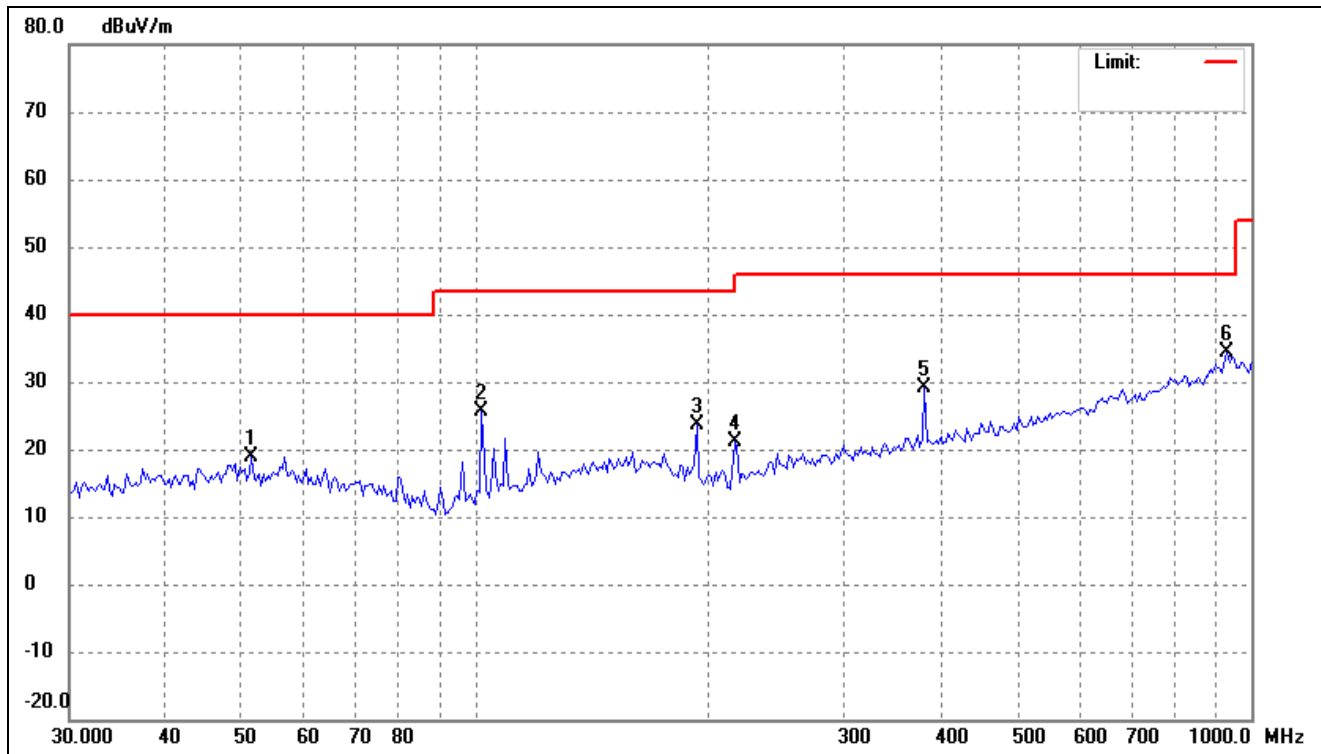
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.7571	26.73	-8.98	17.75	40.00	-22.25	-	-	peak
2	101.8932	37.32	-13.23	24.09	43.50	-19.41	-	-	peak
3	193.1366	34.11	-11.40	22.71	43.50	-20.79	-	-	peak
4	379.1780	34.54	-6.50	28.04	46.00	-17.96	-	-	peak
5	765.6482	28.90	0.45	29.35	46.00	-16.65	-	-	peak
6	958.7135	30.59	2.97	33.56	46.00	-12.44	-	-	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	72.2111	30.77	-11.51	19.26	40.00	-20.74	-	-	peak
2	96.3230	35.08	-14.11	20.97	43.50	-22.53	-	-	peak
3	120.6118	38.46	-10.83	27.63	43.50	-15.87	-	-	peak
4	193.1366	42.22	-11.40	30.82	43.50	-12.68	-	-	peak
5	216.1197	46.00	-11.66	34.34	46.00	-11.66	-	-	peak
6	240.1442	39.57	-9.98	29.59	46.00	-16.41	-	-	peak

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

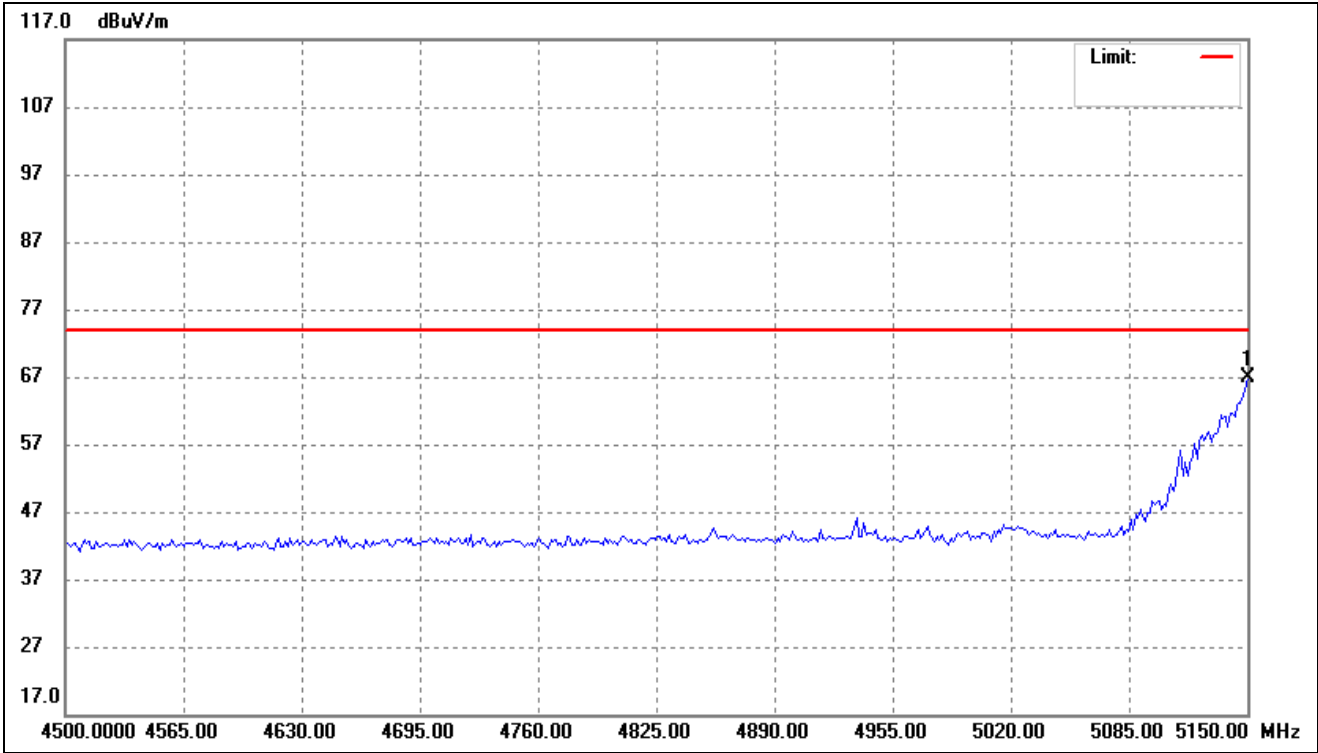


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	51.5365	27.94	-8.99	18.95	40.00	-21.05	-	-	peak
2	101.8932	38.85	-13.23	25.62	43.50	-17.88	-	-	peak
3	193.1366	35.13	-11.40	23.73	43.50	-19.77	-	-	peak
4	216.1197	32.82	-11.66	21.16	46.00	-24.84	-	-	peak
5	379.1780	35.68	-6.50	29.18	46.00	-16.82	-	-	peak
6	932.1405	31.81	2.59	34.40	46.00	-11.60	-	-	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.

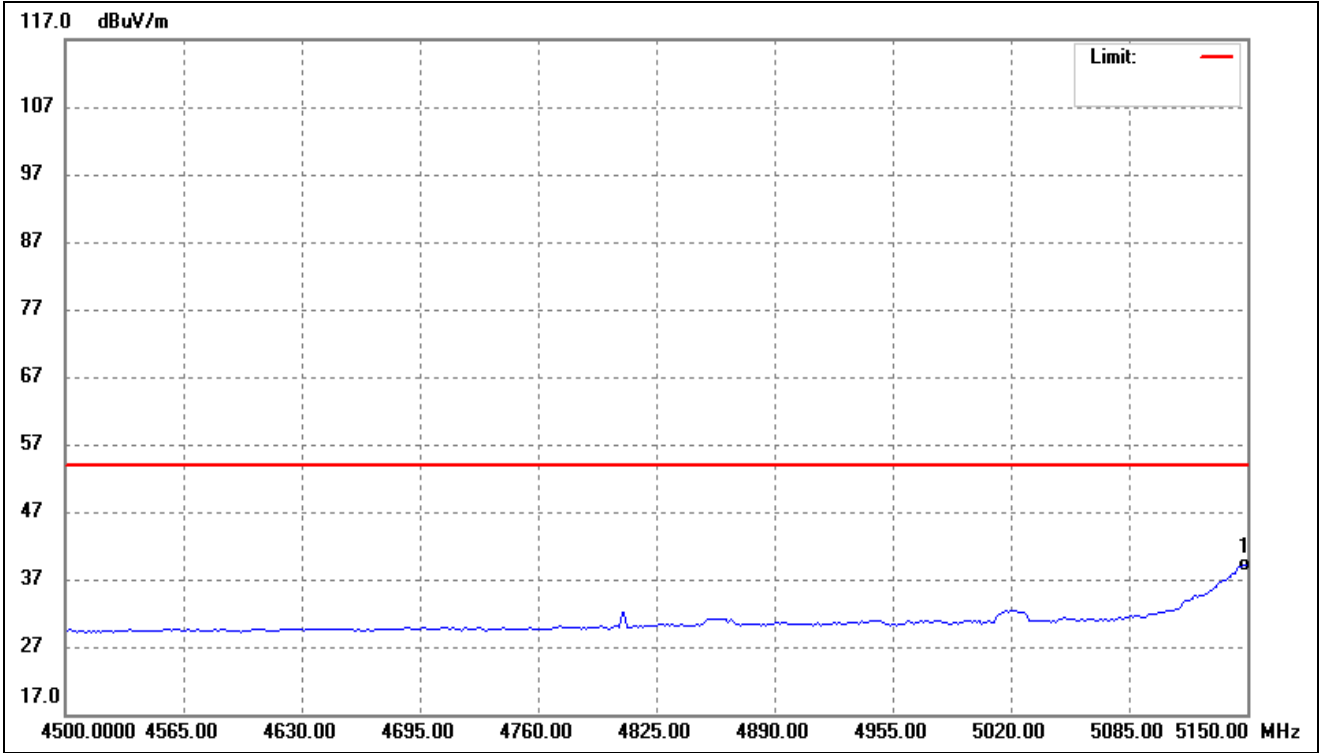
➤ Spurious Emission above 1GHz

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



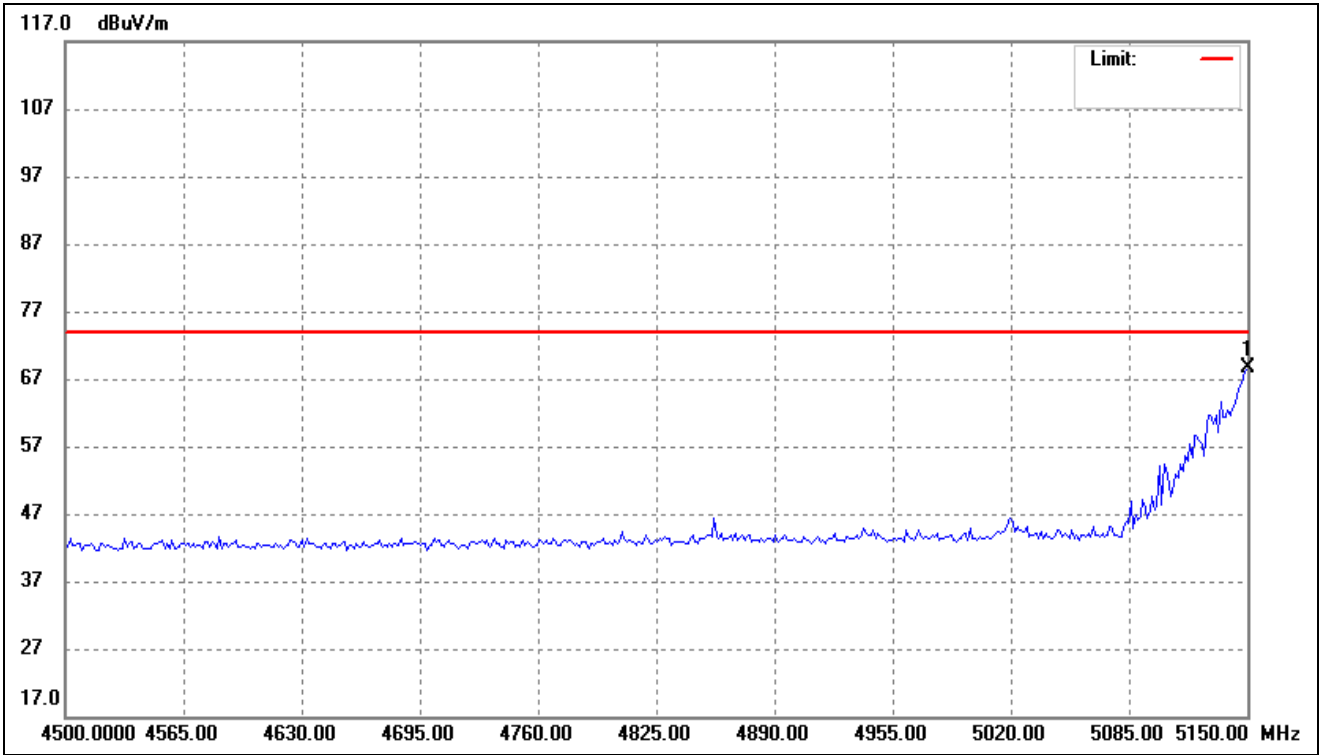
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	79.19	-12.21	66.98	74.00	-7.02	-	-	peak

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



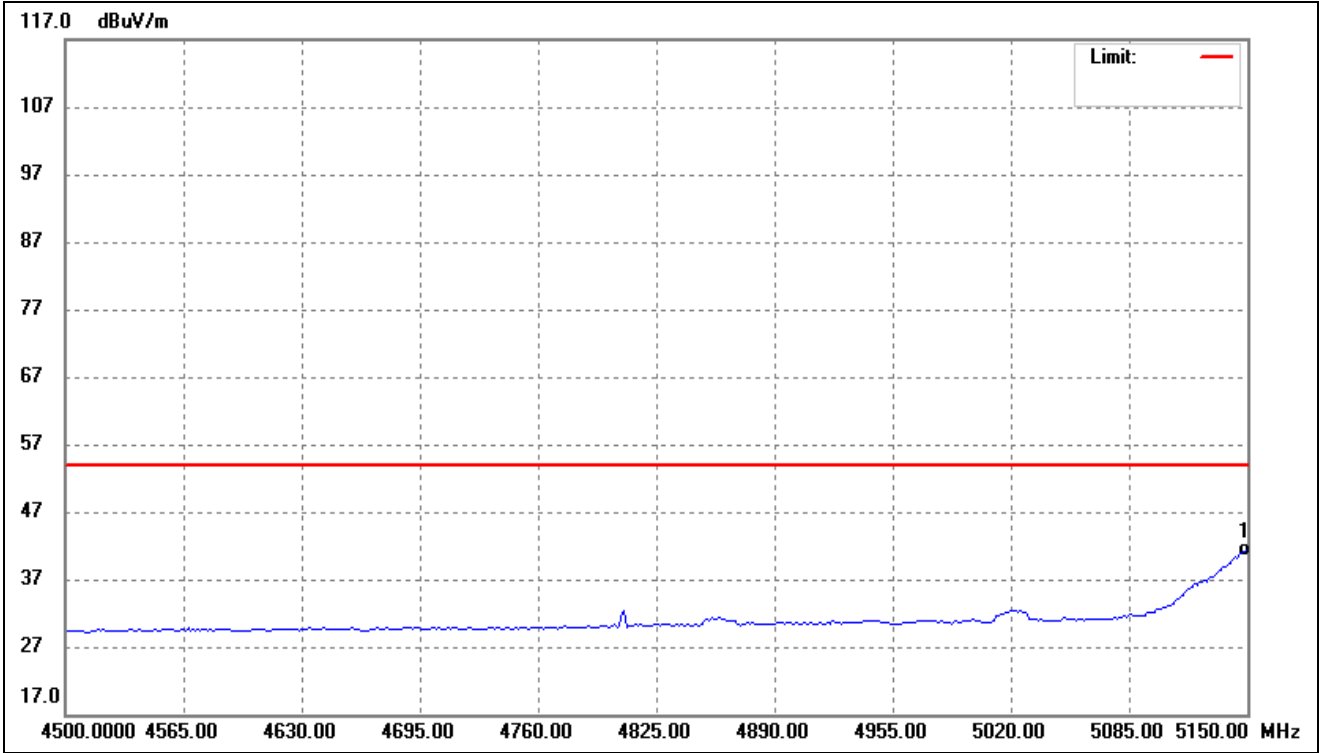
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5148.697	51.26	-12.22	39.04	54.00	-14.96	-	-	AVG

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



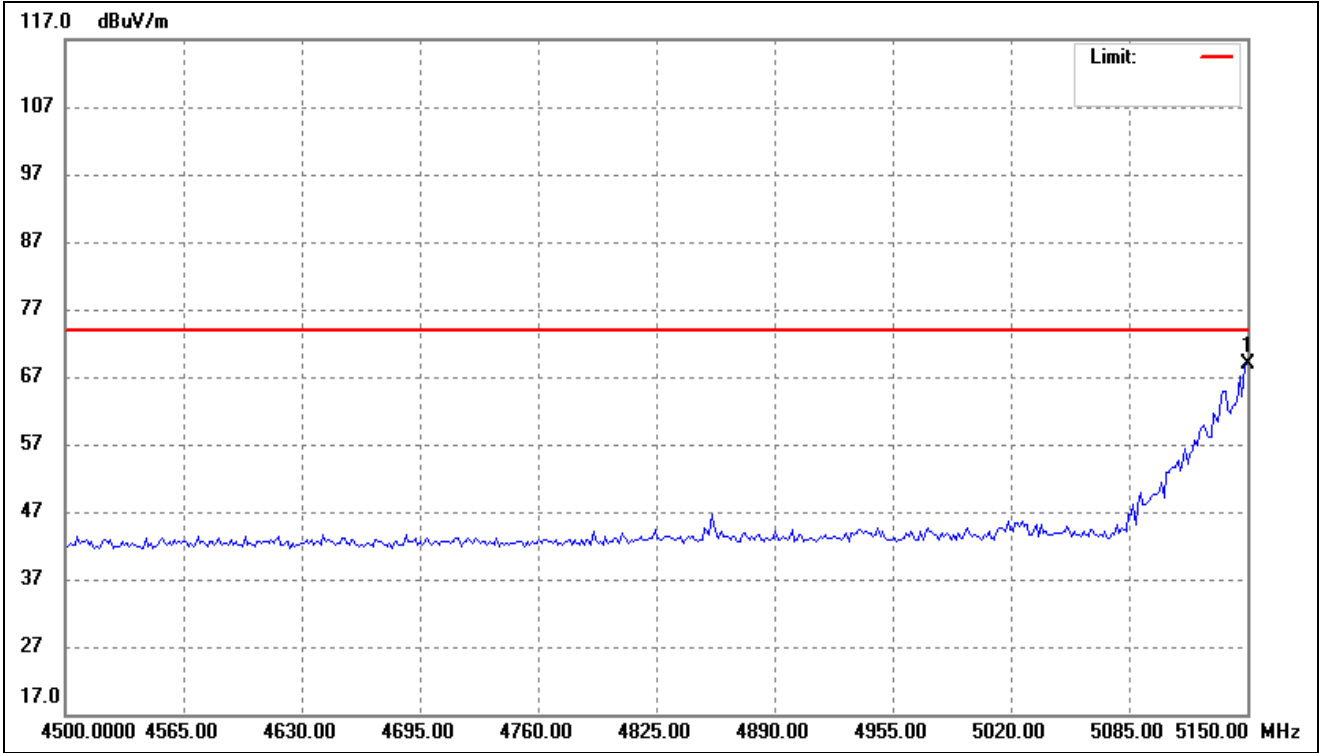
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	80.72	-12.21	68.51	74.00	-5.49	-	-	peak

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



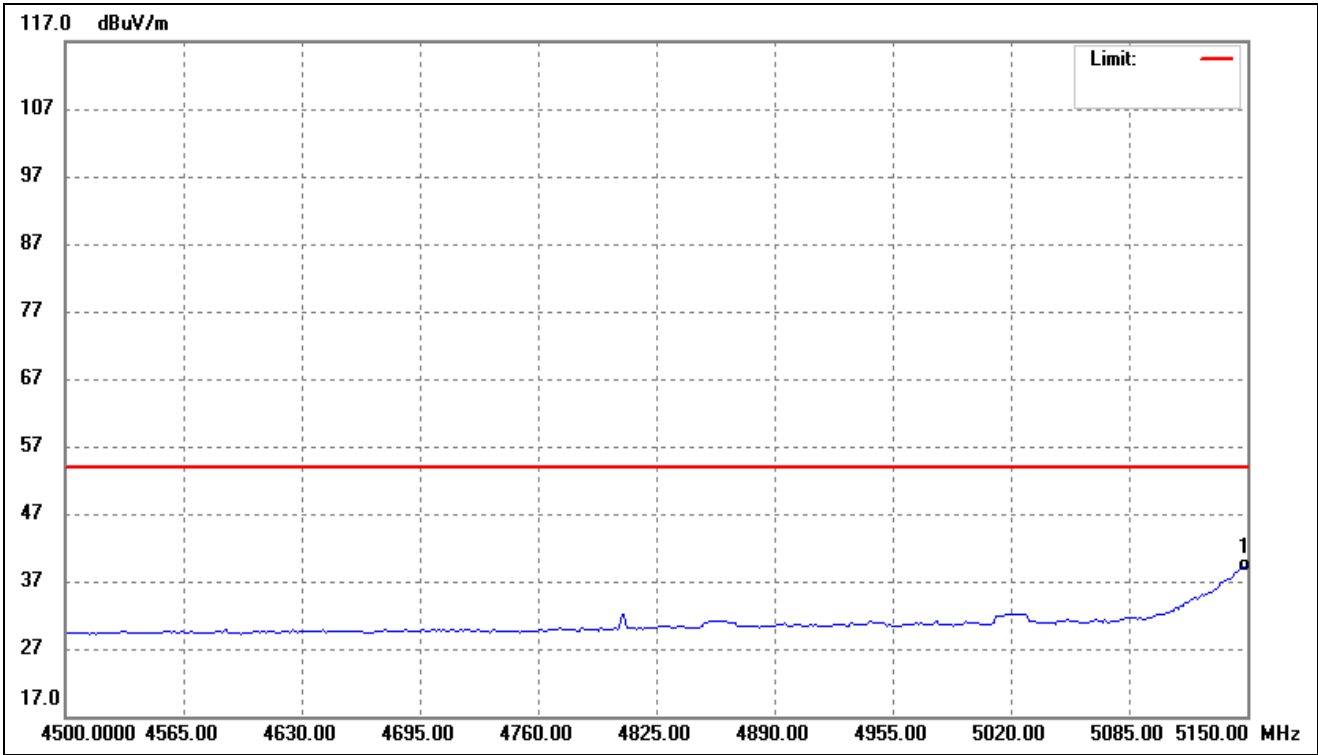
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	53.62	-12.21	41.41	54.00	-12.59	-	-	AVG

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



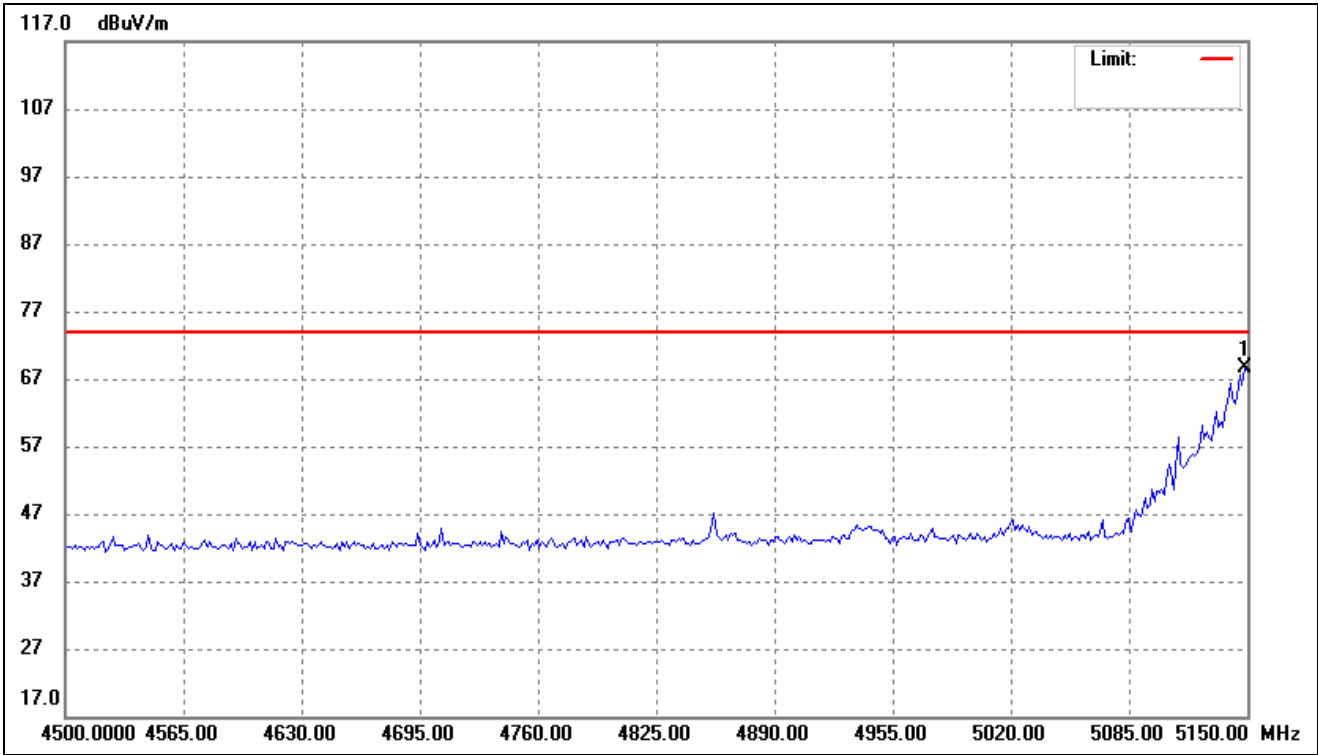
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	81.16	-12.21	68.95	74.00	-5.05	-	-	peak

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



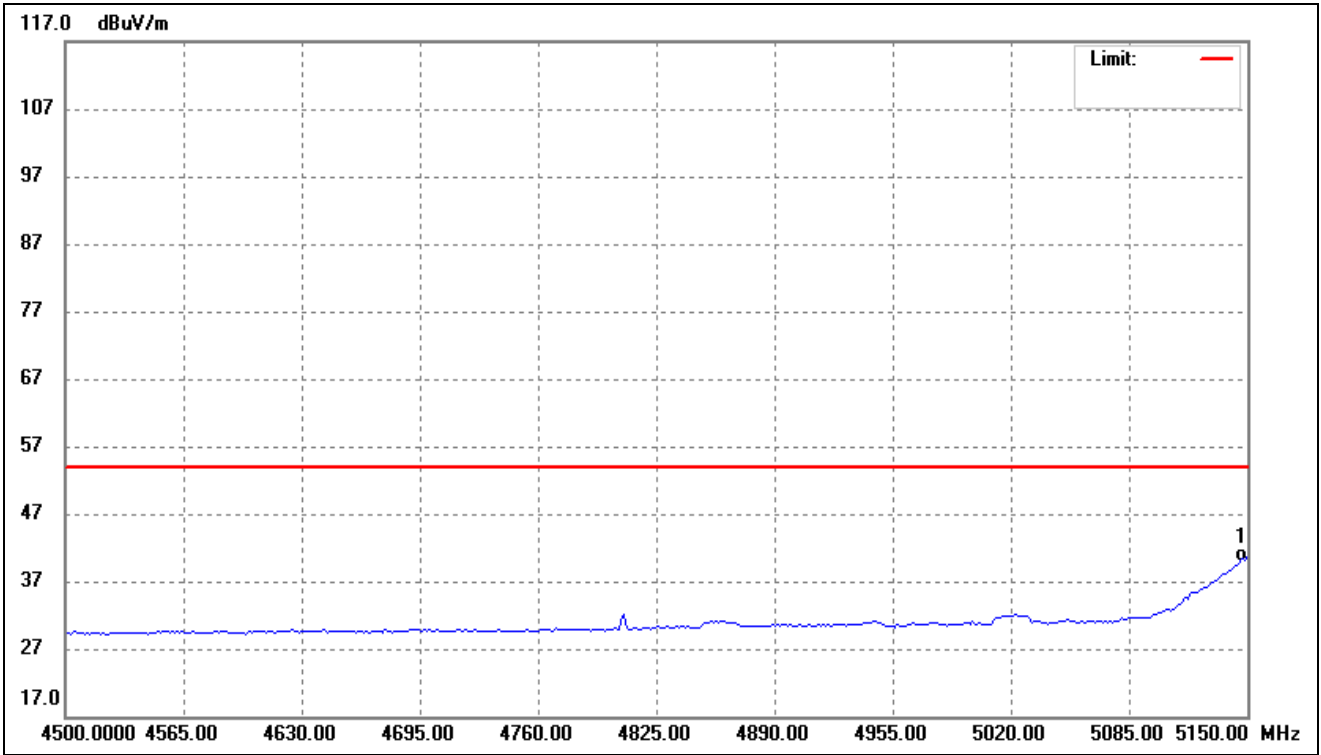
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	51.60	-12.21	39.39	54.00	-14.61	-	-	AVG

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



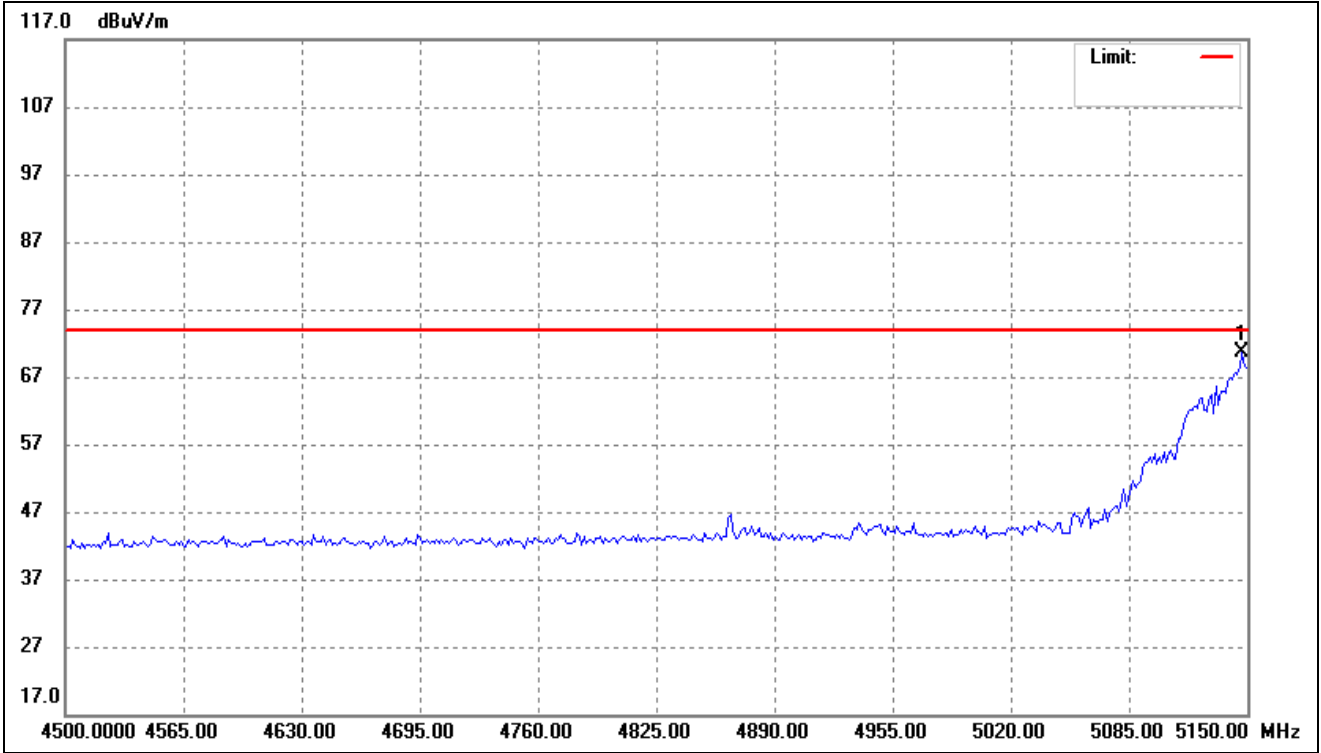
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5148.697	80.85	-12.22	68.63	74.00	-5.37	-	-	peak

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



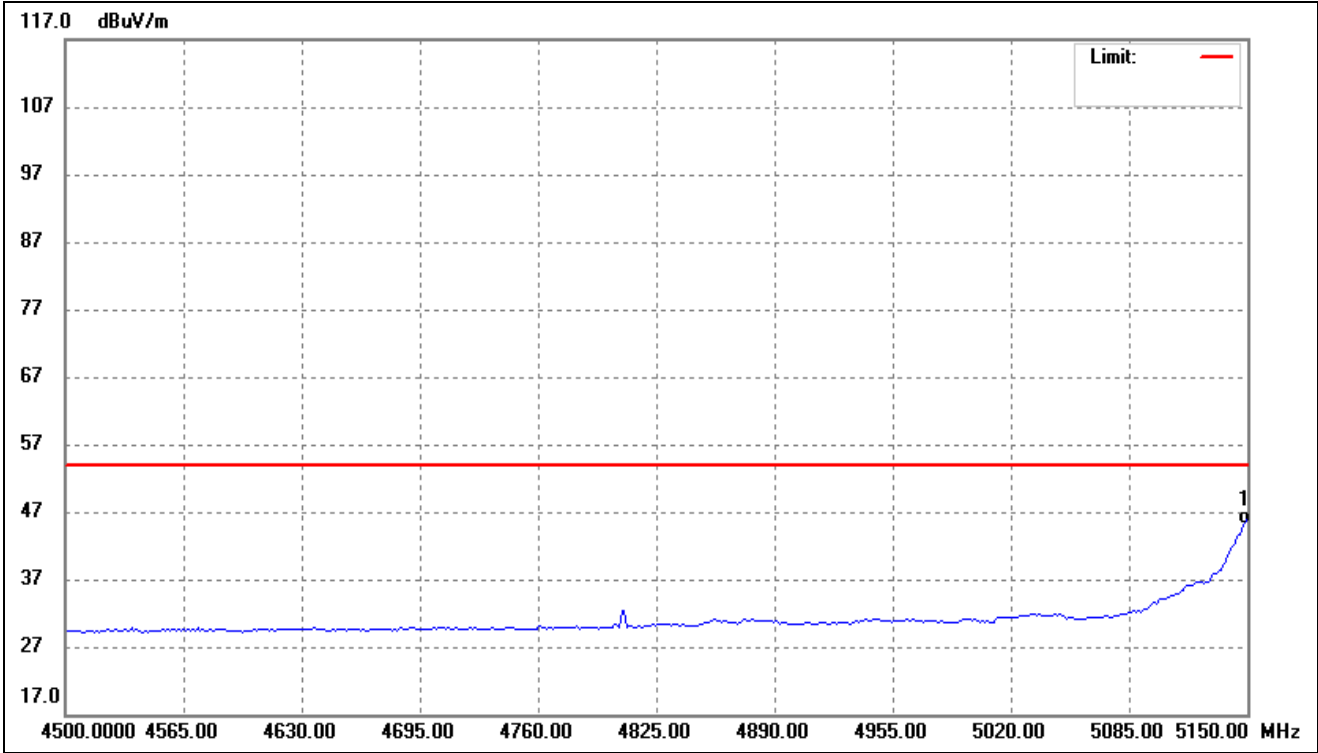
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	53.21	-12.21	41.00	54.00	-13.00	-	-	AVG

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



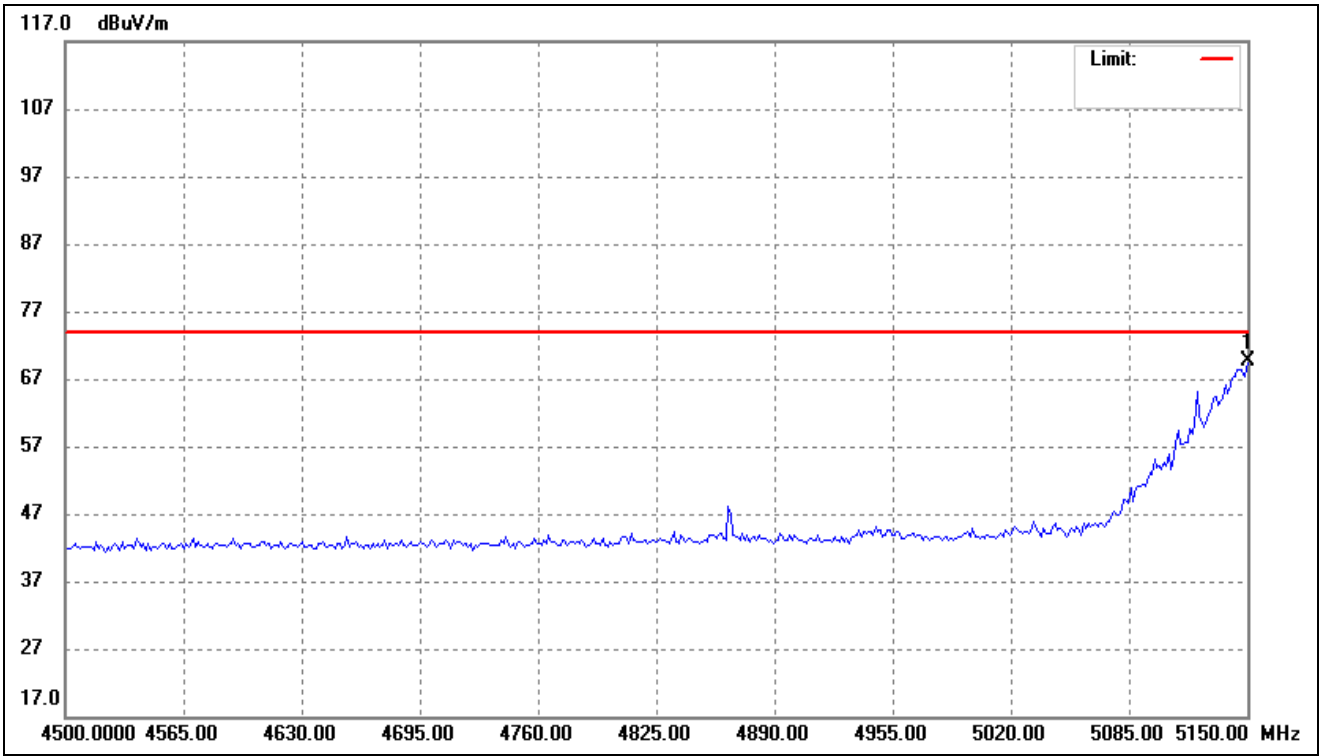
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5147.395	82.88	-12.23	70.65	74.00	-3.35	-	-	peak

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



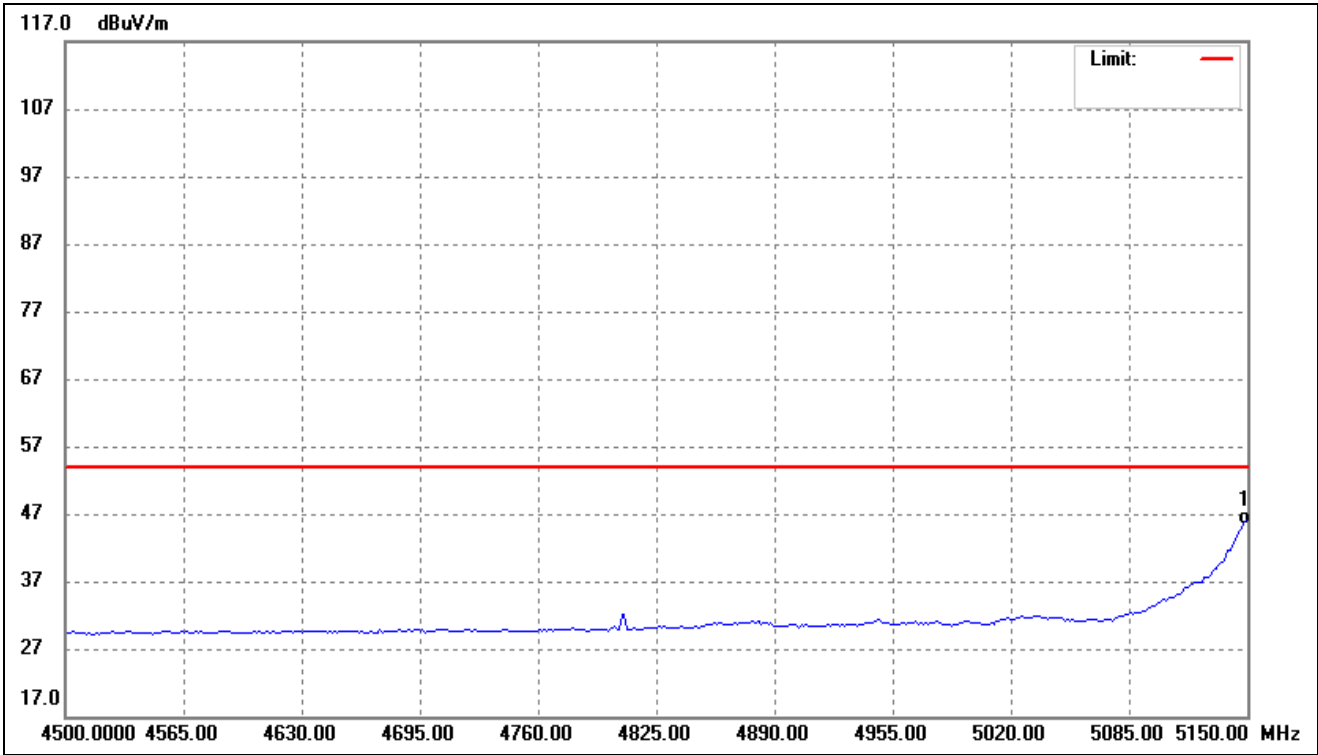
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	58.26	-12.21	46.05	54.00	-7.95	-	-	AVG

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



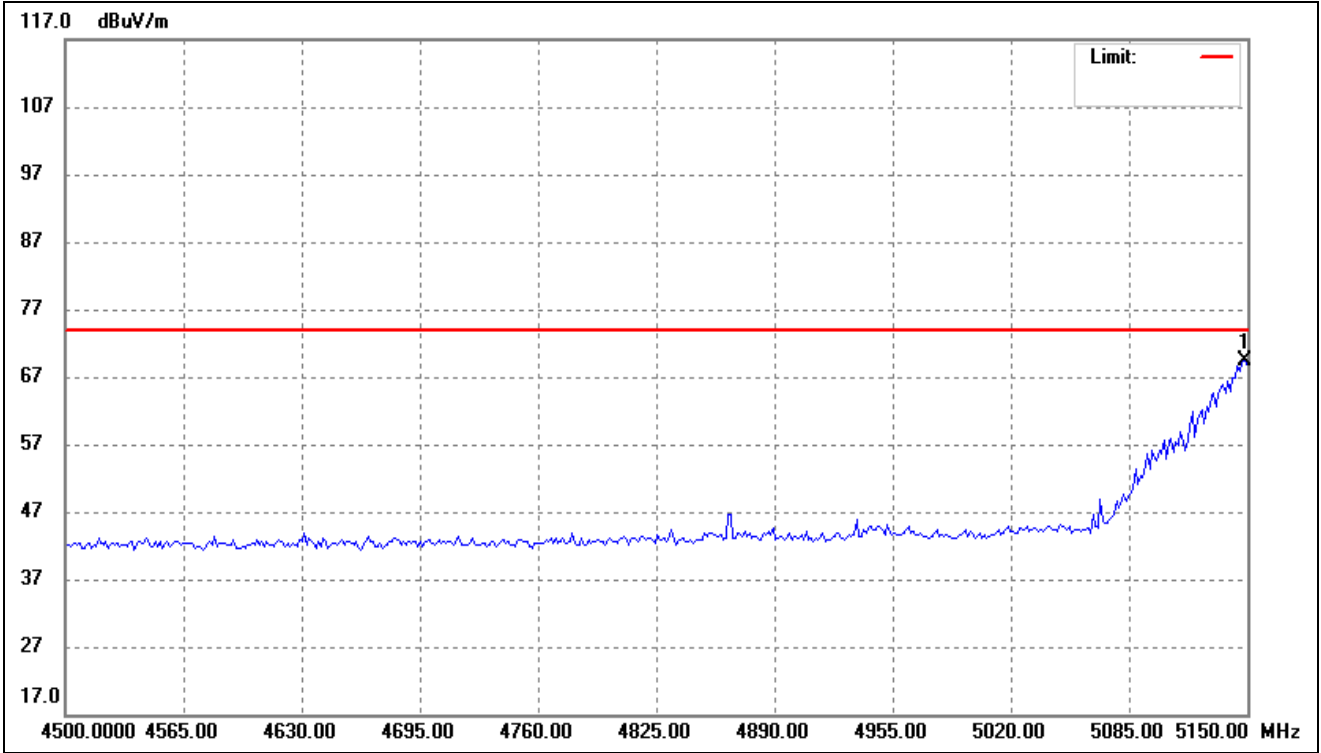
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	81.90	-12.21	69.69	74.00	-4.31	-	-	peak

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



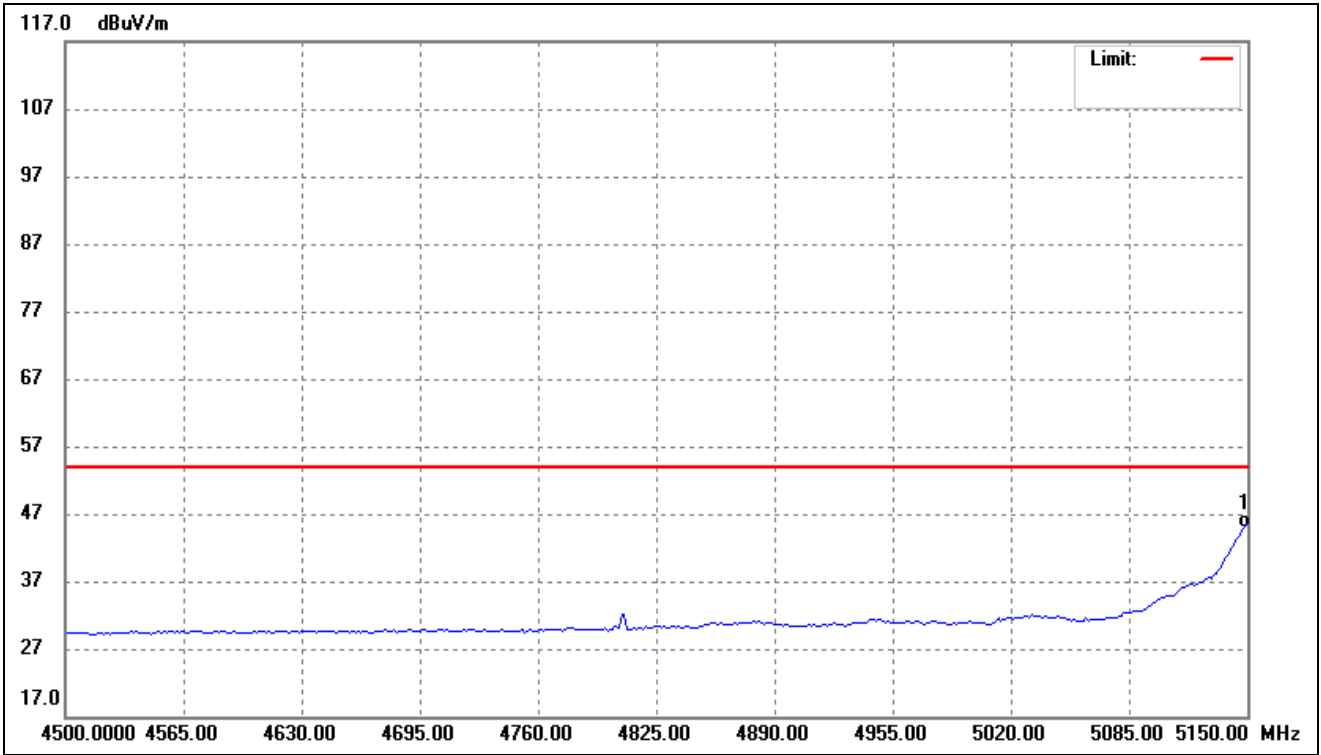
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	58.53	-12.21	46.32	54.00	-7.68	-	-	AVG

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	5148.697	81.50	-12.22	69.28	74.00	-4.72	-	-	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	5150.000	58.08	-12.21	45.87	54.00	-8.13	-	-	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, 5.725-5.850GHz (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	58.93	7.11	66.04	74	-7.96	H	PK
10360	41.53	7.11	48.64	54	-5.36	H	AV
10360	56.36	7.11	63.47	74	-10.53	V	PK
10360	39.99	7.11	47.10	54	-6.90	V	AV
Middle Channel (5200MHz)							
10400	58.60	7.22	65.82	74	-8.18	H	PK
10400	39.62	7.22	46.84	54	-7.16	H	AV
10400	56.67	7.22	63.89	74	-10.11	V	PK
10400	40.38	7.22	47.60	54	-6.40	V	AV
High Channel (5240MHz)							
10480	56.37	7.69	64.06	74	-9.94	H	PK
10480	40.00	7.69	47.69	54	-6.31	H	AV
10480	58.16	7.69	65.85	74	-8.15	V	PK
10480	39.20	7.69	46.89	54	-7.11	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	55.59	9.45	65.04	74	-8.96	H	PK
11490	39.11	9.45	48.56	54	-5.44	H	AV
11490	55.72	9.45	65.17	74	-8.83	V	PK
11490	39.49	9.45	48.94	54	-5.06	V	AV
Middle Channel (5785MHz)							
11570	55.17	9.62	64.79	74	-9.21	H	PK
11570	38.74	9.62	48.36	54	-5.64	H	AV
11570	55.32	9.62	64.94	74	-9.06	V	PK
11570	39.30	9.62	48.92	54	-5.08	V	AV
High Channel (5825MHz)							
11650	57.50	9.84	67.34	74	-6.66	H	PK
11650	38.46	9.84	48.30	54	-5.70	H	AV
11650	57.07	9.84	66.91	74	-7.09	V	PK
11650	40.43	9.84	50.27	54	-3.73	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-43.81	-27
Highest	Above 5350	-42.59	-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 5650	-46.67	-27
	5650 to 5700	-33.52	-27 to -17
	5700 to 5720	-27.34	-17 to 15.6
	5720 to 5725	-17.80	15.6 to 27
Highest	5850 to 5855	-14.51	27 to 15.6
	5855 to 5875	-21.86	15.6 to -17
	5875 to 5925	-33.21	-17 to -27
	Above 5925	-38.70	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 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	57.75	7.11	64.86	74	-9.14	H	PK
10360	38.31	7.11	45.42	54	-8.58	H	AV
10360	57.23	7.11	64.34	74	-9.66	V	PK
10360	38.77	7.11	45.88	54	-8.12	V	AV
Middle Channel (5200MHz)							
10400	57.36	7.22	64.58	74	-9.42	H	PK
10400	38.04	7.22	45.26	54	-8.74	H	AV
10400	57.05	7.22	64.27	74	-9.73	V	PK
10400	39.98	7.22	47.20	54	-6.80	V	AV
High Channel (5240MHz)							
10480	56.46	7.69	64.15	74	-9.85	H	PK
10480	40.13	7.69	47.82	54	-6.18	H	AV
10480	58.02	7.69	65.71	74	-8.29	V	PK
10480	38.29	7.69	45.98	54	-8.02	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	58.29	9.45	67.74	74	-6.26	H	PK
11490	40.69	9.45	50.14	54	-3.86	H	AV
11490	58.51	9.45	67.96	74	-6.04	V	PK
11490	39.76	9.45	49.21	54	-4.79	V	AV
Middle Channel (5785MHz)							
11570	58.02	9.62	67.64	74	-6.36	H	PK
11570	39.86	9.62	49.48	54	-4.52	H	AV
11570	57.58	9.62	67.20	74	-6.80	V	PK
11570	38.39	9.62	48.01	54	-5.99	V	AV
High Channel (5825MHz)							
11650	58.64	9.84	68.48	74	-5.52	H	PK
11650	39.83	9.84	49.67	54	-4.33	H	AV
11650	57.07	9.84	66.91	74	-7.09	V	PK
11650	40.14	9.84	49.98	54	-4.02	V	AV

➤ Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-42.74	-27
Highest	Above 5350	-40.16	-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 5650	-46.41	-27
	5650 to 5700	-33.75	-27 to -17
	5700 to 5720	-27.32	-17 to 15.6
	5720 to 5725	-17.64	15.6 to 27
Highest	5850 to 5855	-14.52	27 to 15.6
	5855 to 5875	-21.85	15.6 to -17
	5875 to 5925	-33.39	-17 to -27
	Above 5925	-38.18	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 5.725-5.850GHz (802.11ac VHT20)
- 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	58.40	7.11	65.51	74	-8.49	H	PK
10360	38.66	7.11	45.77	54	-8.23	H	AV
10360	57.09	7.11	64.20	74	-9.80	V	PK
10360	38.66	7.11	45.77	54	-8.23	V	AV
Middle Channel (5200MHz)							
10400	57.77	7.22	64.99	74	-9.01	H	PK
10400	38.40	7.22	45.62	54	-8.38	H	AV
10400	58.21	7.22	65.43	74	-8.57	V	PK
10400	40.29	7.22	47.51	54	-6.49	V	AV
High Channel (5240MHz)							
10480	56.98	7.69	64.67	74	-9.33	H	PK
10480	41.52	7.69	49.21	54	-4.79	H	AV
10480	58.93	7.69	66.62	74	-7.38	V	PK
10480	38.92	7.69	46.61	54	-7.39	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	57.70	9.45	67.15	74	-6.85	H	PK
11490	39.44	9.45	48.89	54	-5.11	H	AV
11490	56.15	9.45	65.60	74	-8.40	V	PK
11490	38.02	9.45	47.47	54	-6.53	V	AV
Middle Channel (5785MHz)							
11570	58.36	9.62	67.98	74	-6.02	H	PK
11570	39.72	9.62	49.34	54	-4.66	H	AV
11570	56.77	9.62	66.39	74	-7.61	V	PK
11570	39.03	9.62	48.65	54	-5.35	V	AV
High Channel (5825MHz)							
11650	57.52	9.84	67.36	74	-6.64	H	PK
11650	40.58	9.84	50.42	54	-3.58	H	AV
11650	57.90	9.84	67.74	74	-6.26	V	PK
11650	38.39	9.84	48.23	54	-5.77	V	AV

➤ Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-40.85	-27
Highest	Above 5350	-41.64	-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 5650	-46.76	-27
	5650 to 5700	-33.85	-27 to -17
	5700 to 5720	-27.34	-17 to 15.6
	5720 to 5725	-17.70	15.6 to 27
Highest	5850 to 5855	-14.89	27 to 15.6
	5855 to 5875	-21.15	15.6 to -17
	5875 to 5925	-33.83	-17 to -27
	Above 5925	-38.64	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 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	57.61	7.11	64.72	74	-9.28	H	PK
10360	38.73	7.11	45.84	54	-8.16	H	AV
10360	58.77	7.11	65.88	74	-8.12	V	PK
10360	41.30	7.11	48.41	54	-5.59	V	AV
Middle Channel (5200MHz)							
10400	55.53	7.22	62.75	74	-11.25	H	PK
10400	40.71	7.22	47.93	54	-6.07	H	AV
10400	57.07	7.22	64.29	74	-9.71	V	PK
10400	38.47	7.22	45.69	54	-8.31	V	AV
High Channel (5240MHz)							
10480	57.16	7.69	64.85	74	-9.15	H	PK
10480	41.17	7.69	48.86	54	-5.14	H	AV
10480	58.71	7.69	66.40	74	-7.60	V	PK
10480	41.91	7.69	49.60	54	-4.40	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	58.88	9.45	68.33	74	-5.67	H	PK
11490	40.77	9.45	50.22	54	-3.78	H	AV
11490	58.74	9.45	68.19	74	-5.81	V	PK
11490	39.40	9.45	48.85	54	-5.15	V	AV
Middle Channel (5785MHz)							
11570	55.15	9.62	64.77	74	-9.23	H	PK
11570	38.96	9.62	48.58	54	-5.42	H	AV
11570	56.06	9.62	65.68	74	-8.32	V	PK
11570	38.72	9.62	48.34	54	-5.66	V	AV
High Channel (5825MHz)							
11650	58.10	9.84	67.94	74	-6.06	H	PK
11650	39.72	9.84	49.56	54	-4.44	H	AV
11650	57.58	9.84	67.42	74	-6.58	V	PK
11650	39.23	9.84	49.07	54	-4.93	V	AV

➤ Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-40.83	-27
Highest	Above 5350	-41.61	-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 5650	-46.24	-27
	5650 to 5700	-33.16	-27 to -17
	5700 to 5720	-27.39	-17 to 15.6
	5720 to 5725	-17.51	15.6 to 27
Highest	5850 to 5855	-14.67	27 to 15.6
	5855 to 5875	-21.54	15.6 to -17
	5875 to 5925	-33.42	-17 to -27
	Above 5925	-38.29	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 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	56.73	7.89	64.62	74	-9.38	H	PK
10380	39.41	7.89	47.30	54	-6.70	H	AV
10380	58.48	7.89	66.37	74	-7.63	V	PK
10380	41.88	7.89	49.77	54	-4.23	V	AV
High Channel (5230MHz)							
10460	58.57	7.97	66.54	74	-7.46	H	PK
10460	39.43	7.97	47.40	54	-6.60	H	AV
10460	55.52	7.97	63.49	74	-10.51	V	PK
10460	40.27	7.97	48.24	54	-5.76	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	57.67	9.45	67.12	74	-6.88	H	PK
11510	39.47	9.45	48.92	54	-5.08	H	AV
11510	57.52	9.45	66.97	74	-7.03	V	PK
11510	39.59	9.45	49.04	54	-4.96	V	AV
High Channel (5795MHz)							
11590	58.28	9.27	67.55	74	-6.45	H	PK
11590	39.26	9.27	48.53	54	-5.47	H	AV
11590	58.65	9.27	67.92	74	-6.08	V	PK
11590	38.33	9.27	47.60	54	-6.40	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-39.25	-27
Highest	Above 5350	-38.63	-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 5650	-46.71	-27
	5650 to 5700	-33.60	-27 to -17
	5700 to 5720	-27.52	-17 to 15.6
	5720 to 5725	-17.39	15.6 to 27
Highest	5850 to 5855	-14.47	27 to 15.6
	5855 to 5875	-21.12	15.6 to -17
	5875 to 5925	-33.85	-17 to -27
	Above 5925	-38.60	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 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	57.57	7.89	65.46	74	-8.54	H	PK
10380	41.66	7.89	49.55	54	-4.45	H	AV
10380	58.35	7.89	66.24	74	-7.76	V	PK
10380	38.82	7.89	46.71	54	-7.29	V	AV
High Channel (5230MHz)							
10460	57.31	7.97	65.28	74	-8.72	H	PK
10460	39.30	7.97	47.27	54	-6.73	H	AV
10460	56.79	7.97	64.76	74	-9.24	V	PK
10460	38.76	7.97	46.73	54	-7.27	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	58.32	9.45	67.77	74	-6.23	H	PK
11510	40.42	9.45	49.87	54	-4.13	H	AV
11510	56.21	9.45	65.66	74	-8.34	V	PK
11510	40.23	9.45	49.68	54	-4.32	V	AV
High Channel (5795MHz)							
11590	57.70	9.27	66.97	74	-7.03	H	PK
11590	41.40	9.27	50.67	54	-3.33	H	AV
11590	57.38	9.27	66.65	74	-7.35	V	PK
11590	41.71	9.27	50.98	54	-3.02	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-39.65	-27
Highest	Above 5350	-38.86	-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 5650	-45.84	-27
	5650 to 5700	-32.59	-27 to -17
	5700 to 5720	-26.30	-17 to 15.6
	5720 to 5725	-16.74	15.6 to 27
Highest	5850 to 5855	-14.63	27 to 15.6
	5855 to 5875	-21.51	15.6 to -17
	5875 to 5925	-33.85	-17 to -27
	Above 5925	-38.87	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 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	57.58	7.89	65.47	74	-8.53	H	PK
10380	38.32	7.89	46.21	54	-7.79	H	AV
10380	56.78	7.89	64.67	74	-9.33	V	PK
10380	40.94	7.89	48.83	54	-5.17	V	AV
High Channel (5230MHz)							
10460	56.39	7.97	64.36	74	-9.64	H	PK
10460	40.53	7.97	48.50	54	-5.50	H	AV
10460	56.86	7.97	64.83	74	-9.17	V	PK
10460	39.85	7.97	47.82	54	-6.18	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	56.90	9.45	66.35	74	-7.65	H	PK
11510	41.53	9.45	50.98	54	-3.02	H	AV
11510	55.82	9.45	65.27	74	-8.73	V	PK
11510	39.25	9.45	48.70	54	-5.30	V	AV
High Channel (5795MHz)							
11590	57.61	9.27	66.88	74	-7.12	H	PK
11590	41.45	9.27	50.72	54	-3.28	H	AV
11590	58.98	9.27	68.25	74	-5.75	V	PK
11590	39.06	9.27	48.33	54	-5.67	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-39.76	-27
Highest	Above 5350	-38.86	-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 5650	-45.37	-27
	5650 to 5700	-32.75	-27 to -17
	5700 to 5720	-26.21	-17 to 15.6
	5720 to 5725	-16.67	15.6 to 27
Highest	5850 to 5855	-14.59	27 to 15.6
	5855 to 5875	-21.15	15.6 to -17
	5875 to 5925	-33.30	-17 to -27
	Above 5925	-38.86	-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

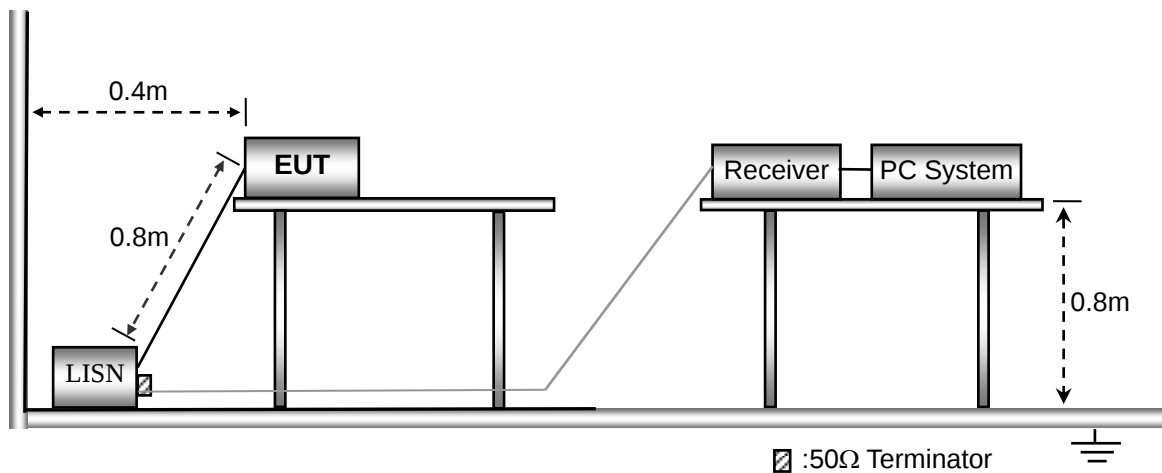
10. Conducted Emissions

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



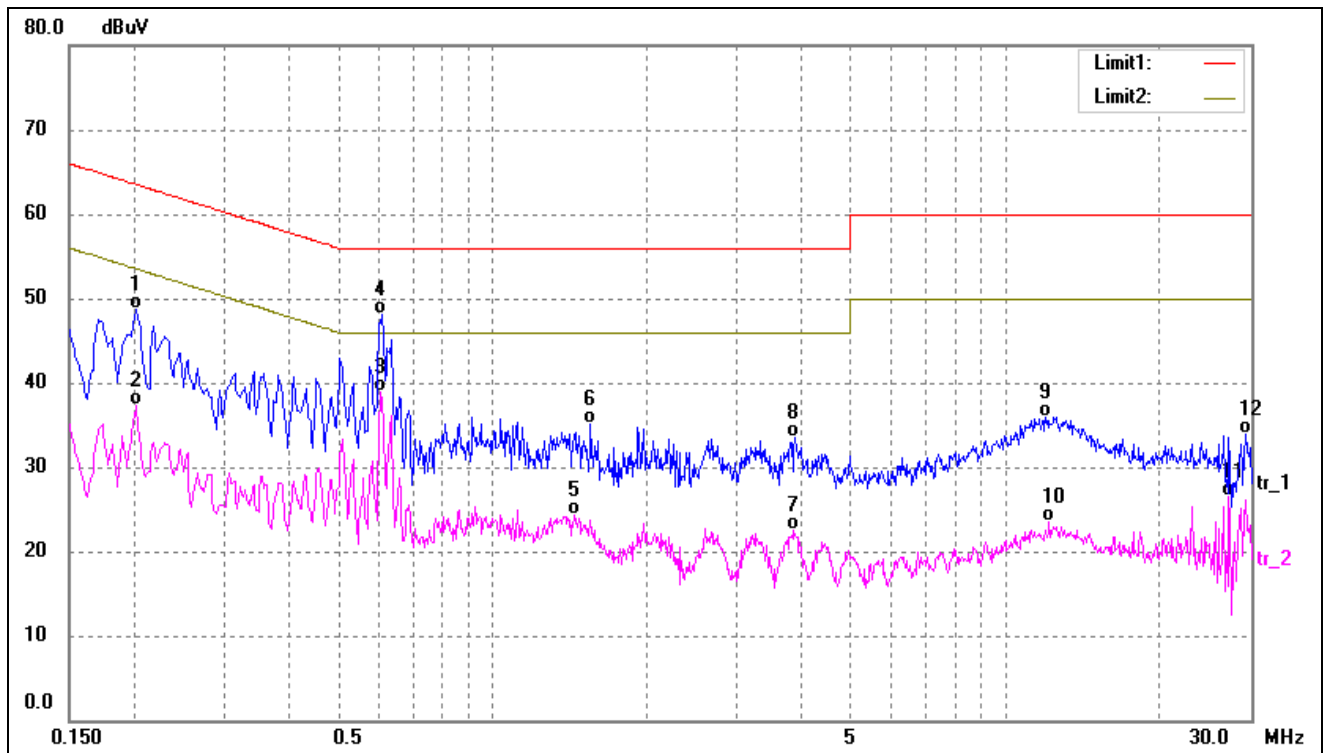
10.3 Test Receiver Setup

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

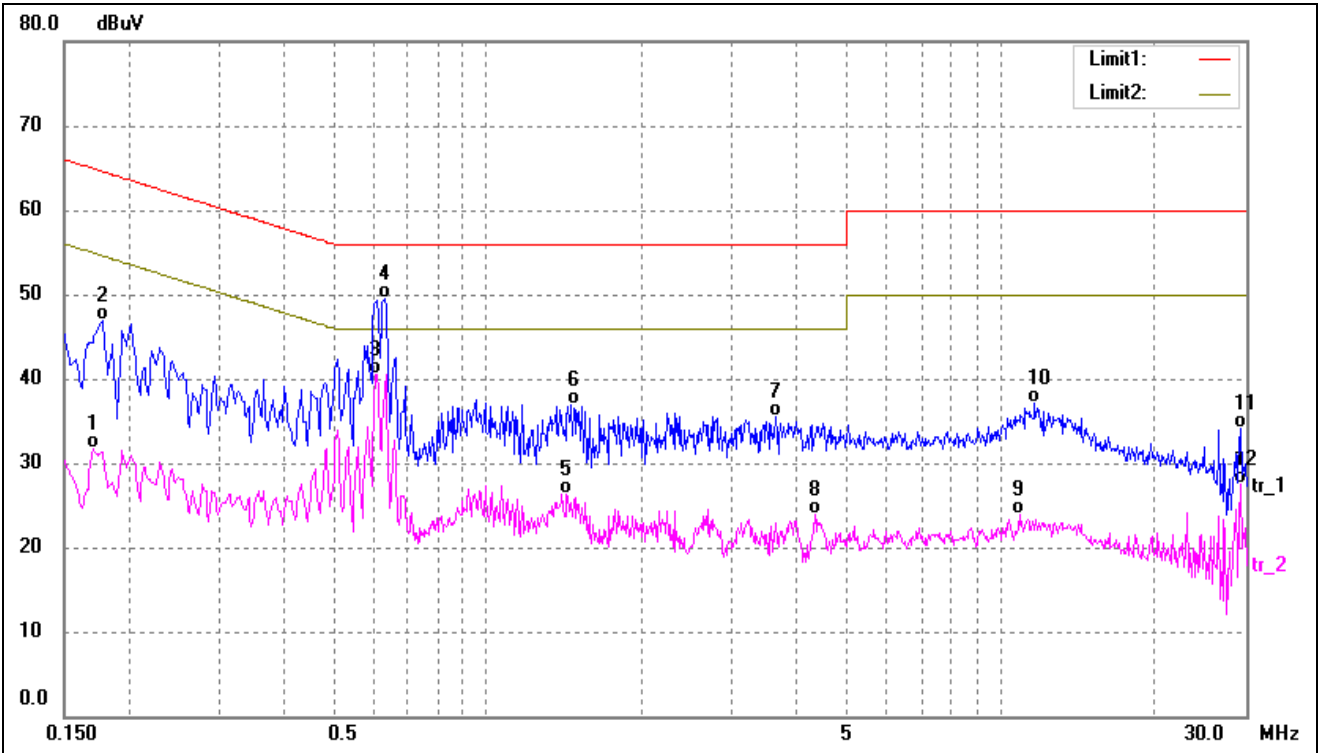
10.4 Summary of Test Results/Plots

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



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2020	39.13	9.63	48.76	63.52	-14.76	QP
2	0.2020	27.68	9.63	37.31	53.52	-16.21	AVG
3*	0.6060	29.18	9.69	38.87	46.00	-7.13	AVG
4	0.6100	38.48	9.69	48.17	56.00	-7.83	QP
5	1.4420	14.67	9.58	24.25	46.00	-21.75	AVG
6	1.5540	25.55	9.54	35.09	56.00	-20.91	QP
7	3.8660	12.97	9.45	22.42	46.00	-23.58	AVG
8	3.8980	23.96	9.45	33.41	56.00	-22.59	QP
9	11.9500	26.20	9.69	35.89	60.00	-24.11	QP
10	12.1340	13.74	9.68	23.42	50.00	-26.58	AVG
11	27.1580	16.94	9.55	26.49	50.00	-23.51	AVG
12	29.2340	24.35	9.55	33.90	60.00	-26.10	QP

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



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1700	22.20	9.51	31.71	54.96	-23.25	AVG
2	0.1780	37.43	9.54	46.97	64.57	-17.60	QP
3*	0.6060	30.82	9.69	40.51	46.00	-5.49	AVG
4	0.6300	39.87	9.70	49.57	56.00	-6.43	QP
5	1.4260	16.68	9.59	26.27	46.00	-19.73	AVG
6	1.4620	27.40	9.57	36.97	56.00	-19.03	QP
7	3.6460	26.13	9.44	35.57	56.00	-20.43	QP
8	4.3580	14.41	9.50	23.91	46.00	-22.09	AVG
9	10.8979	14.15	9.76	23.91	50.00	-26.09	AVG
10	11.6740	27.37	9.71	37.08	60.00	-22.92	QP
11	29.2340	24.49	9.55	34.04	60.00	-25.96	QP
12	29.2340	17.97	9.55	27.52	50.00	-22.48	AVG

APPENDIX SUMMARY

Project No.	WTX25X06158982W	Test Engineer	Jennifer Song
Start date	2025/7/22	Finish date	2025/7/22
Temperature	22.3℃	Humidity	57%
RF specifications	U-NII		

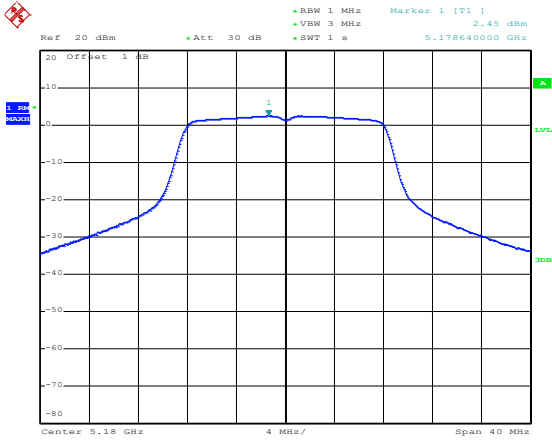
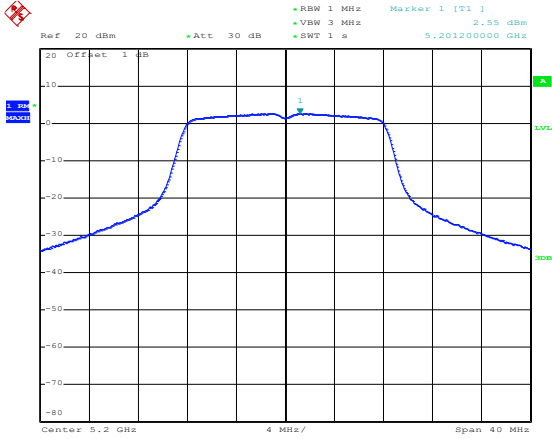
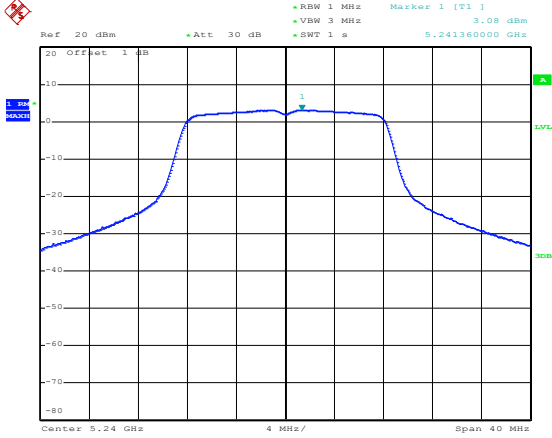
APPENDIX	Description of Test Item	Result
A	Power Spectral Density	Compliant
B	Emission Bandwidth and Occupied Bandwidth	Compliant
C	Maximum Conducted Output Power	Compliant
D	Frequency Stability	Compliant

APPENDIX A

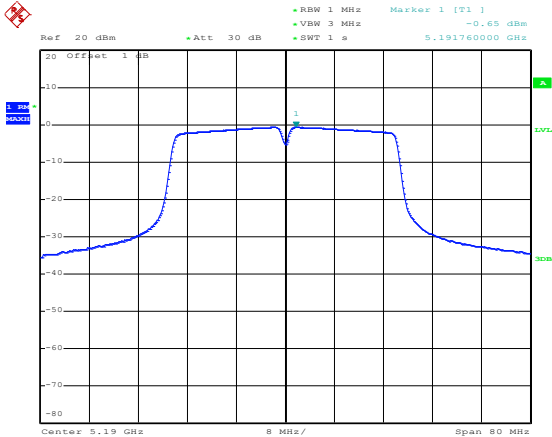
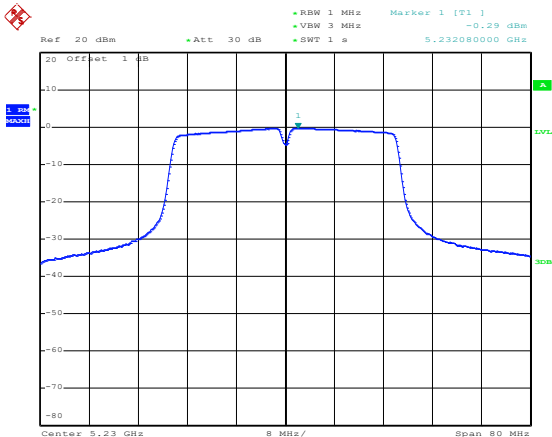
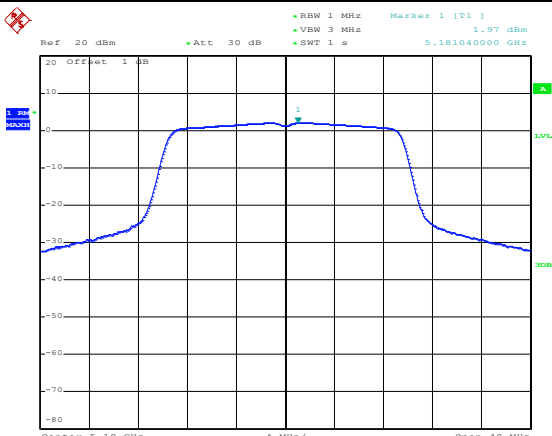
Power Spectral Density			
U-NII-1:5150-5250MHz			
Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5180	2.45	11
	5200	2.55	11
	5240	3.08	11
802.11n-HT20	5180	2.23	11
	5200	2.35	11
	5240	2.92	11
802.11n-HT40	5190	-0.65	11
	5230	-0.29	11
802.11ax-HE20	5180	1.97	11
	5200	2.04	11
	5240	2.67	11
802.11ax-HE40	5190	-0.87	11
	5230	-0.53	11
802.11ac-VHT20	5180	2.34	11
	5200	2.44	11
	5240	2.98	11
802.11ac-VHT40	5190	-0.68	11
	5230	-0.21	11

U-NII-3: 5725-5850MHz					
Operating mode	Test Channel	Power Spectral Density dBm/300kHz	Factor	Power Spectral Density* dBm/500kHz	Limit dBm/500kHz
802.11a	5745	-3.00	2.22	-0.78	30
	5785	-3.11	2.22	-0.89	30
	5825	-3.28	2.22	-1.06	30
802.11n-HT20	5745	-2.95	2.22	-0.73	30
	5785	-3.25	2.22	-1.03	30
	5825	-3.38	2.22	-1.16	30
802.11n HT40	5755	-6.02	2.22	-3.8	30
	5795	-6.37	2.22	-4.15	30
802.11ax HE20	5745	-3.41	2.22	-1.19	30
	5785	-3.55	2.22	-1.33	30
	5825	-3.71	2.22	-1.49	30
802.11ax HE40	5755	-6.19	2.22	-3.97	30
	5795	-6.72	2.22	-4.5	30
802.11ac VHT20	5745	-3.03	2.22	-0.81	30
	5785	-3.21	2.22	-0.99	30
	5825	-3.29	2.22	-1.07	30
802.11ac-VHT 40	5755	-5.95	2.22	-3.73	30
	5795	-6.24	2.22	-4.02	30
*Note: Maximum PSD=PSD(dBm/300kHz)+10log(500kHz/300kHz)=2.22					

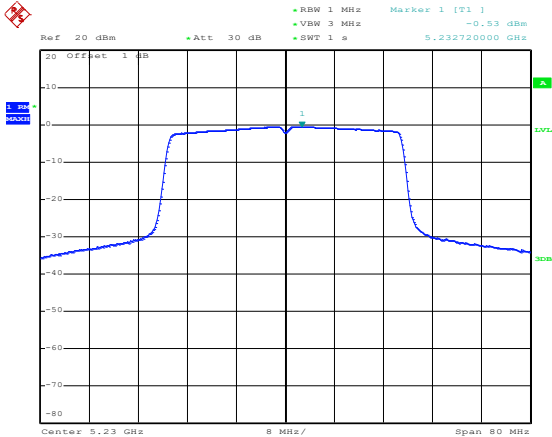
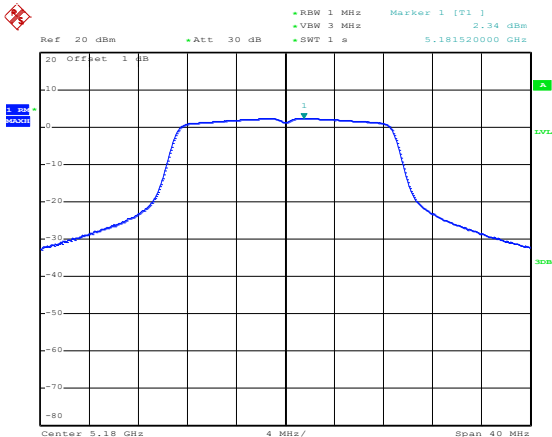
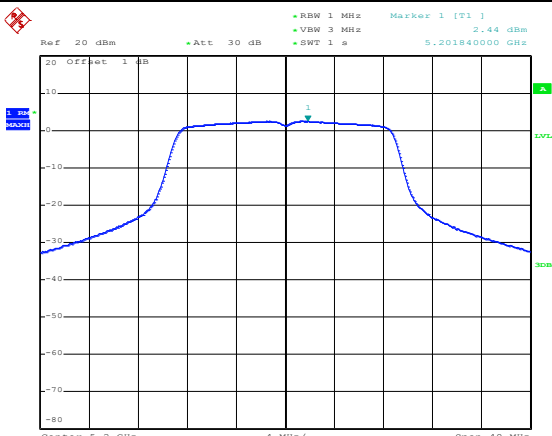
5150-5250MHz

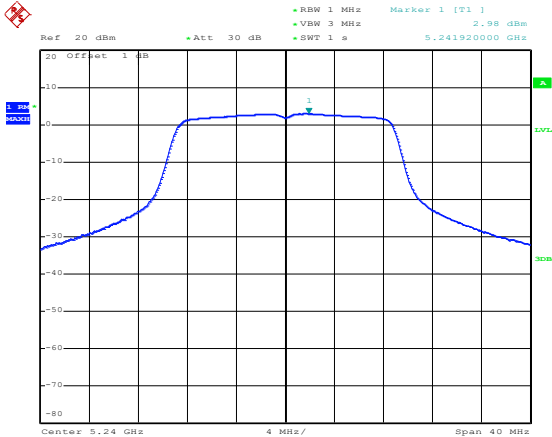
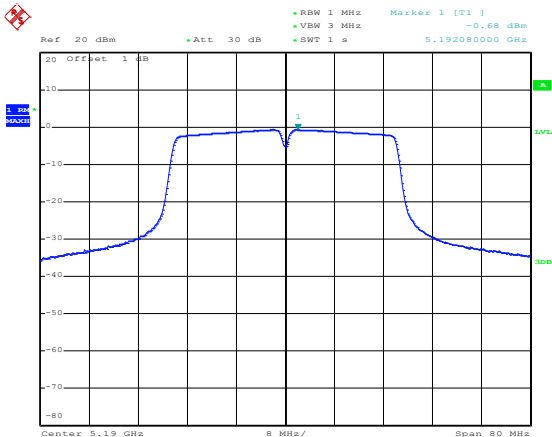
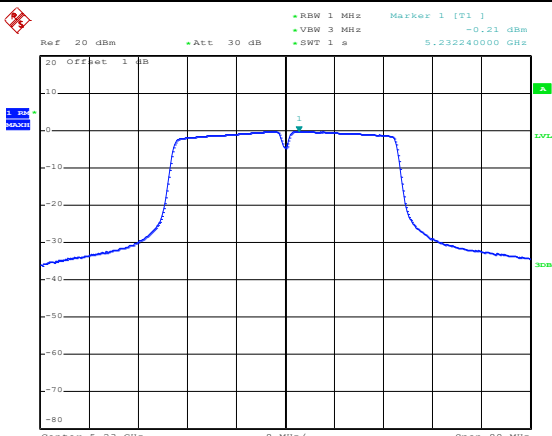
802.11a-Low	 Date: 22.JUL.2025 09:50:59
802.11a-Middle	 Date: 22.JUL.2025 09:51:21
802.11a-High	 Date: 22.JUL.2025 09:51:45

802.11n-HT20-Low	Date: 22.JUL.2025 09:52:42
802.11n-HT20-Middle	Date: 22.JUL.2025 09:53:06
802.11n-HT20-High	Date: 22.JUL.2025 09:53:38

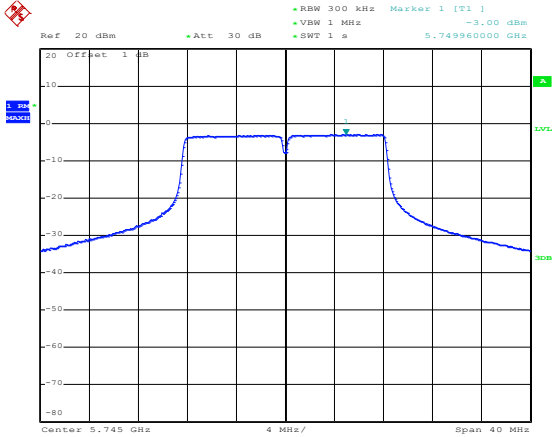
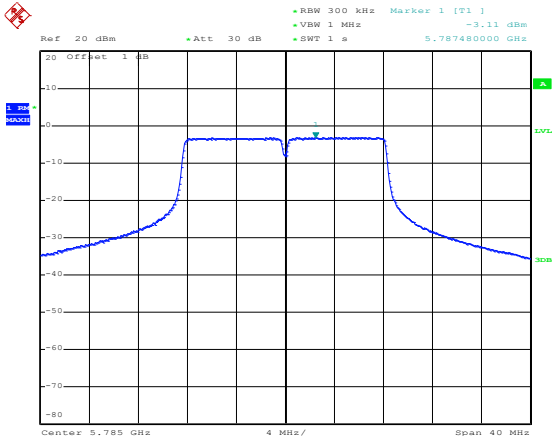
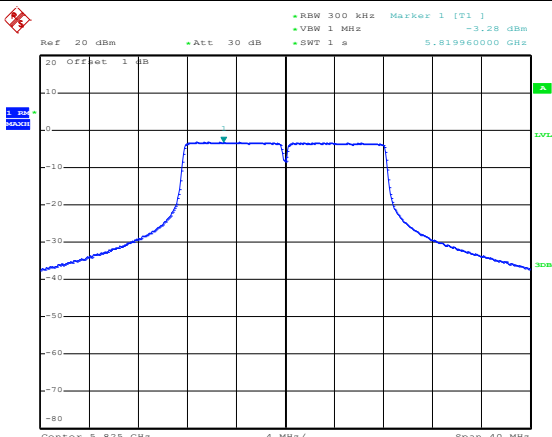
802.11n-HT40-Low	 Ref: 20 dBm, Att: 30 dB, RBW: 1 MHz, VBW: 3 MHz, SWT: 1 s, Marker 1 [F1]: -0.65 dBm, 5.191760000 GHz Center: 5.19 GHz, Span: 80 MHz Date: 22.JUL.2025 09:57:53
802.11n-HT40-High	 Ref: 20 dBm, Att: 30 dB, RBW: 1 MHz, VBW: 3 MHz, SWT: 1 s, Marker 1 [F1]: -0.29 dBm, 5.232080000 GHz Center: 5.23 GHz, Span: 80 MHz Date: 22.JUL.2025 09:58:12
802.11ax HE20-Low	 Ref: 20 dBm, Att: 30 dB, RBW: 1 MHz, VBW: 3 MHz, SWT: 1 s, Marker 1 [F1]: 1.97 dBm, 5.181040000 GHz Center: 5.18 GHz, Span: 40 MHz Date: 22.JUL.2025 09:55:56

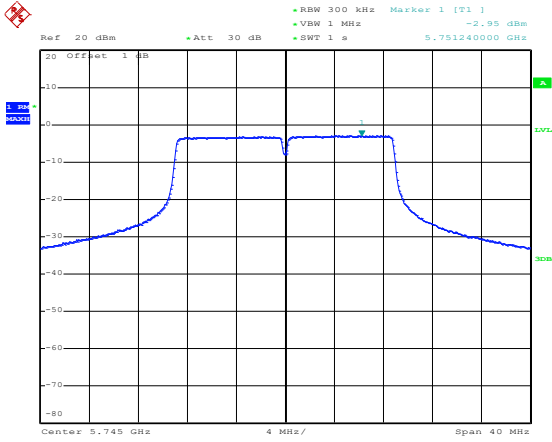
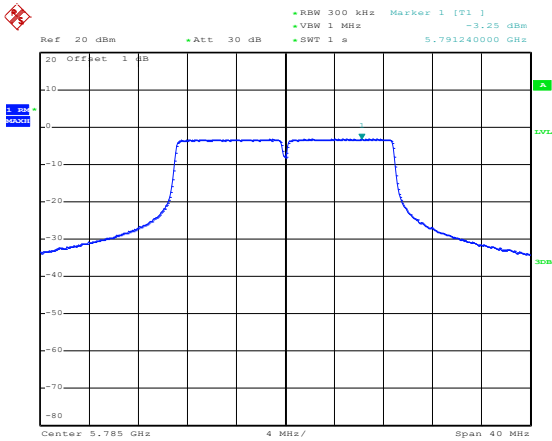
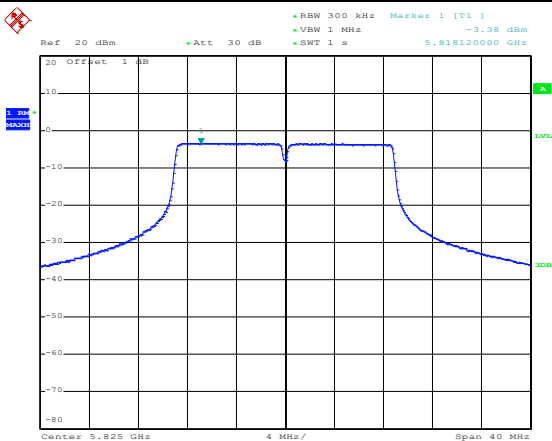
802.11ax HE20-Middle	Date: 22.JUL.2025 09:56:14
802.11ax-VHT20-High	Date: 22.JUL.2025 09:56:33
802.11ax HE40- Low	Date: 22.JUL.2025 09:59:40

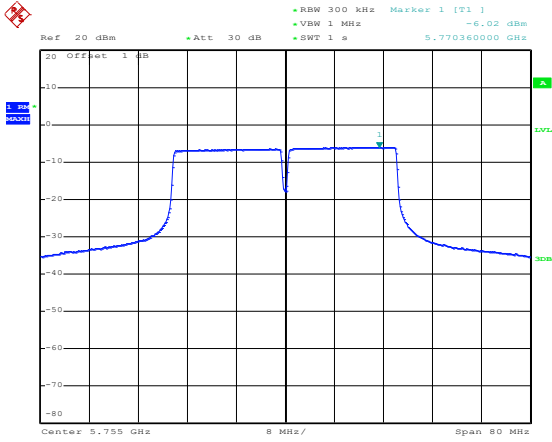
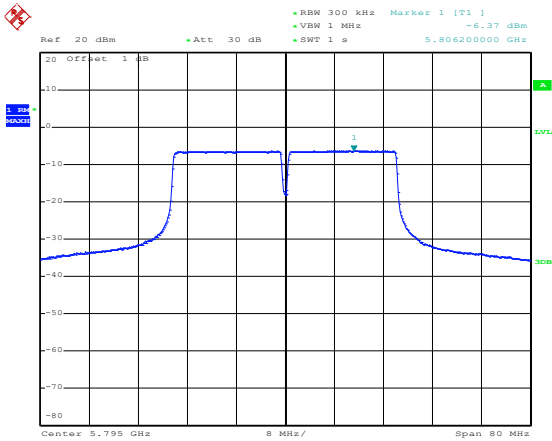
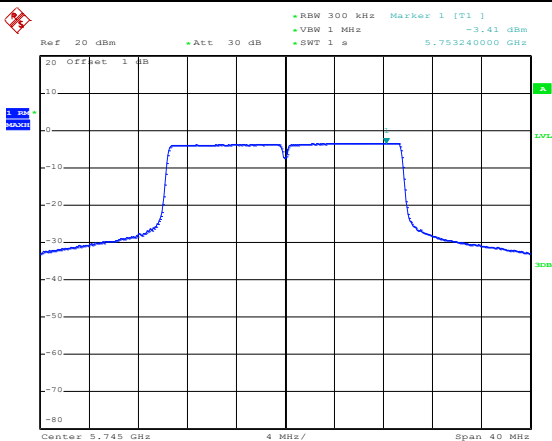
802.11ax HE40-High	 Date: 22.JUL.2025 10:00:01
802.11ac-VHT20-Low	 Date: 22.JUL.2025 09:54:16
802.11ac-VHT20-Middle	 Date: 22.JUL.2025 09:54:40

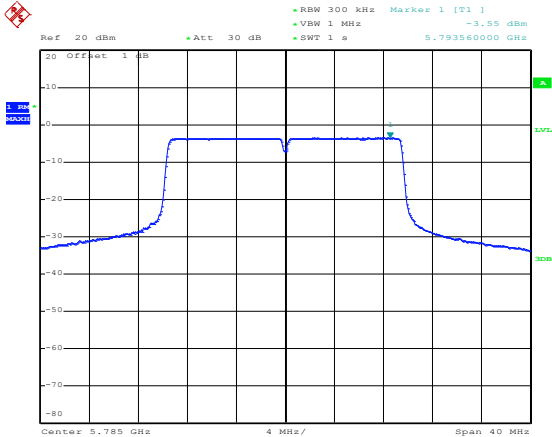
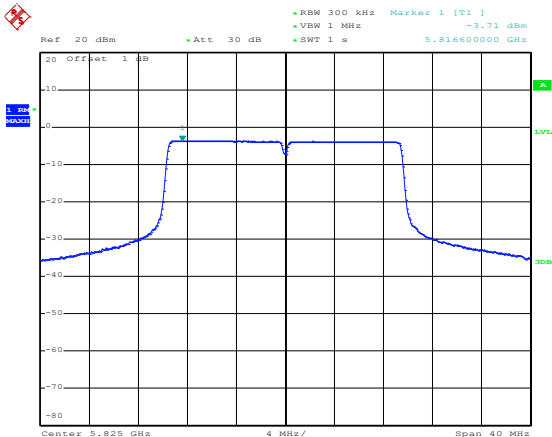
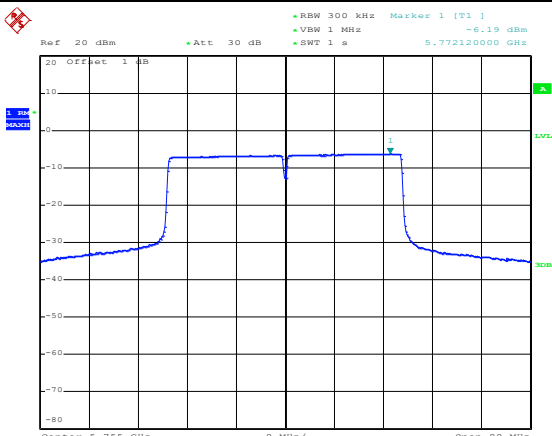
802.11ac-VHT20-High	 Date: 22.JUL.2025 09:55:02
802.11ac-VHT40-Low	 Date: 22.JUL.2025 09:58:42
802.11ac-VHT40-High	 Date: 22.JUL.2025 09:59:01

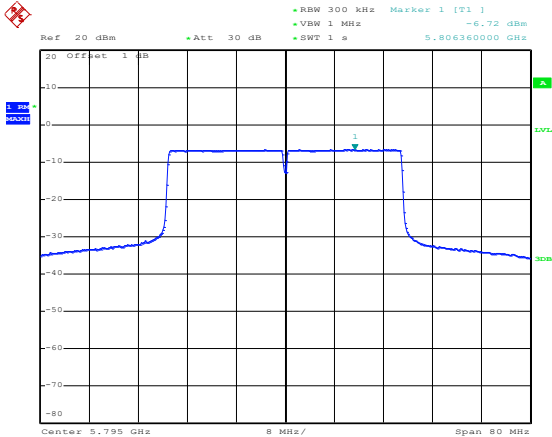
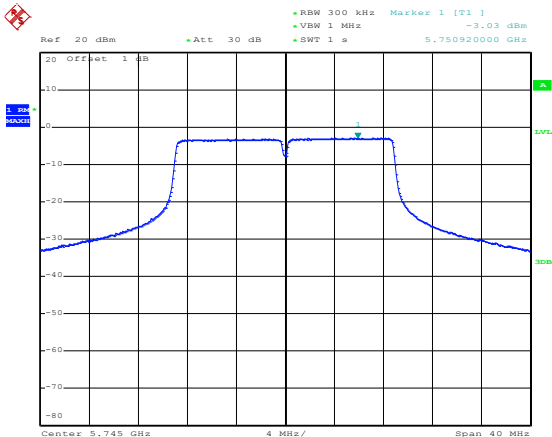
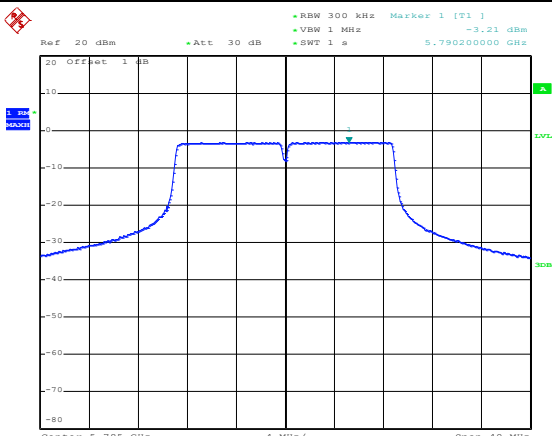
5725-5850MHz

802.11a-Low	 Date: 22.JUL.2025 11:54:25
802.11a-Middle	 Date: 22.JUL.2025 11:54:53
802.11a-High	 Date: 22.JUL.2025 11:55:21

802.11n-HT20-Low	 Date: 22.JUL.2025 11:56:21
802.11n-HT20-Middle	 Date: 22.JUL.2025 11:56:39
802.11n-HT20-High	 Date: 22.JUL.2025 11:56:58

802.11n-HT40-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -6.02 dBm VSW 1 MHz SWT 1 s 5.770360000 GHz Center 5.755 GHz 8 MHz/ Span 80 MHz Date: 22.JUL.2025 12:00:53
802.11n-HT40-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -6.37 dBm VSW 1 MHz SWT 1 s 5.806200000 GHz Center 5.795 GHz 8 MHz/ Span 80 MHz Date: 22.JUL.2025 12:01:14
802.11ax HE20-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -3.41 dBm VSW 1 MHz SWT 1 s 5.753240000 GHz Center 5.745 GHz 4 MHz/ Span 40 MHz Date: 22.JUL.2025 11:59:10

802.11ax HE20-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -3.55 dBm VSW 1 MHz SWT 1 s 5.793560000 GHz Center 5.785 GHz 4 MHz/ Span 40 MHz Date: 22.JUL.2025 11:59:27
802.11ax HE20-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -3.71 dBm VSW 1 MHz SWT 1 s 5.816600000 GHz Center 5.825 GHz 4 MHz/ Span 40 MHz Date: 22.JUL.2025 11:59:48
802.11ax HE40- Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -6.19 dBm VSW 1 MHz SWT 1 s 5.772120000 GHz Center 5.755 GHz 8 MHz/ Span 80 MHz Date: 22.JUL.2025 12:02:35

802.11ax HE40-High	 Date: 22.JUL.2025 12:02:53
802.11ac-VHT20-Low	 Date: 22.JUL.2025 11:58:00
802.11ac-VHT20-Middle	 Date: 22.JUL.2025 11:58:17

802.11ac-VHT20-High	Date: 22.JUL.2025 11:58:36
802.11ac-VHT40-Low	Date: 22.JUL.2025 12:01:49
802.11ac-VHT40-High	Date: 22.JUL.2025 12:02:08

APPENDIX B

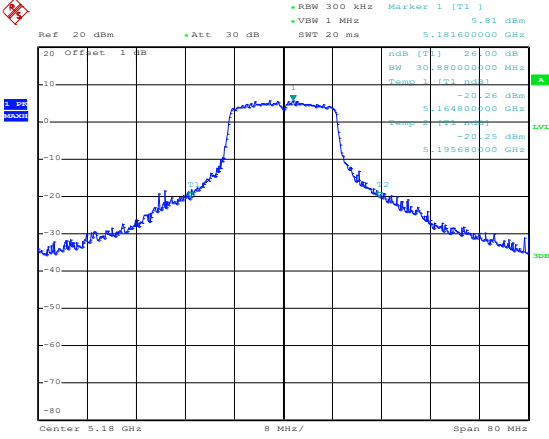
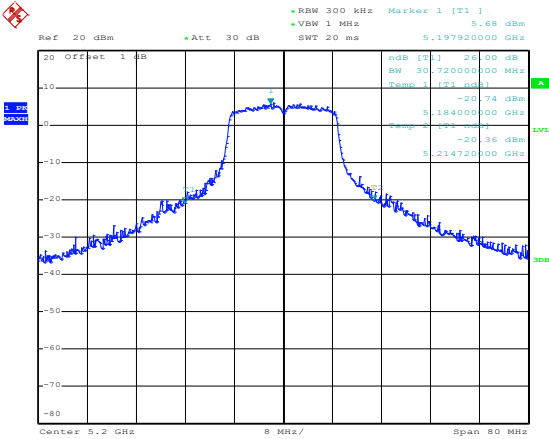
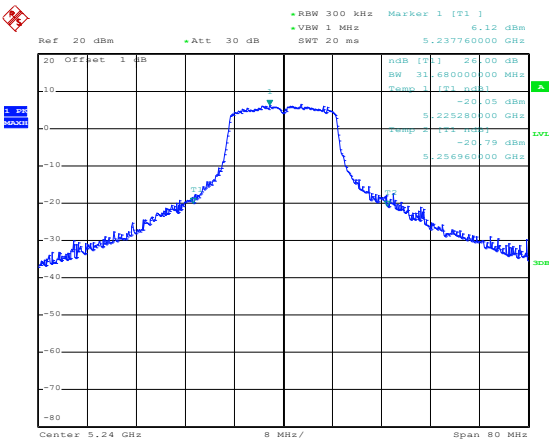
Emission Bandwidth and Occupied Bandwidth

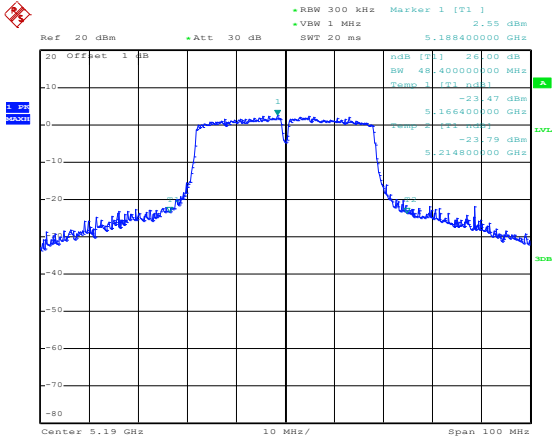
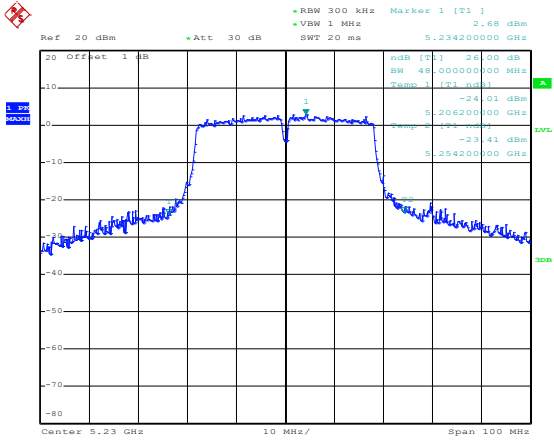
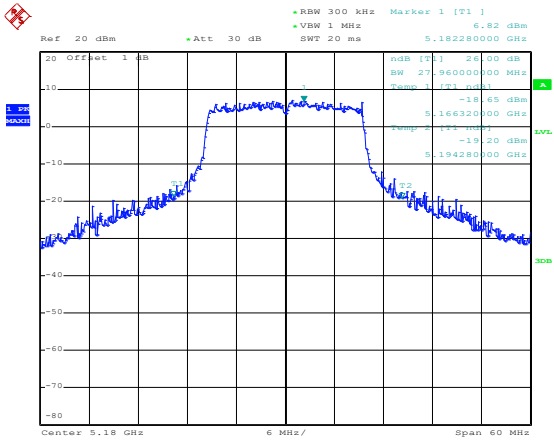
U-NII-1:5150-5250MHz				
Test Mode	Test Channel MHz	26 dB Bandwidth MHz	99% Bandwidth MHz	Limit MHz
802.11a	5180	29.52	18.30	Pass
	5200	29.88	18.10	Pass
	5240	27.96	17.99	Pass
802.11n-HT20	5180	30.88	19.40	Pass
	5200	30.72	19.20	Pass
	5240	31.68	19.00	Pass
802.11n-HT40	5190	48.40	39.40	Pass
	5230	48.00	39.00	Pass
802.11ax HE20	5180	27.96	19.60	Pass
	5200	27.00	19.60	Pass
	5240	27.48	19.60	Pass
802.11ax HE40	5190	46.20	39.40	Pass
	5230	45.40	39.40	Pass
802.11ac-VHT20	5180	30.56	19.20	Pass
	5200	30.56	19.20	Pass
	5240	29.60	19.30	Pass
802.11ac-VHT40	5190	47.80	39.20	Pass
	5230	48.60	39.00	Pass

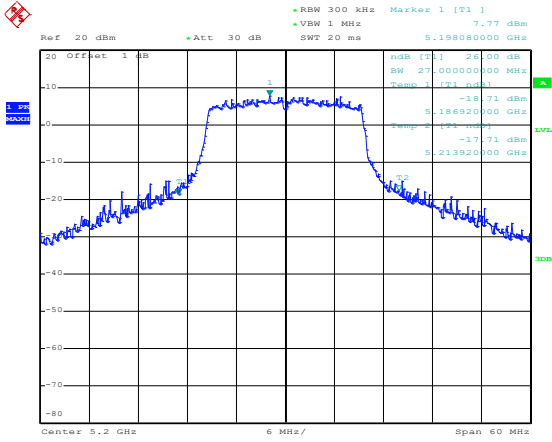
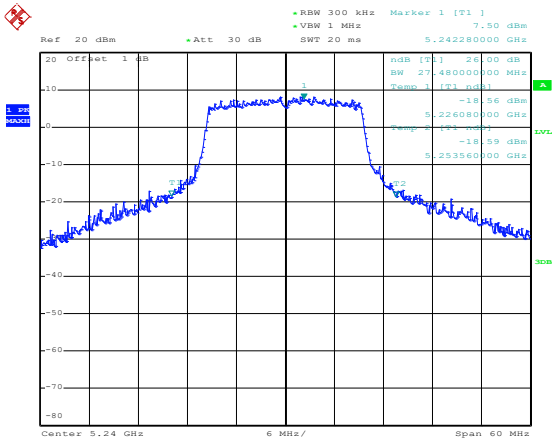
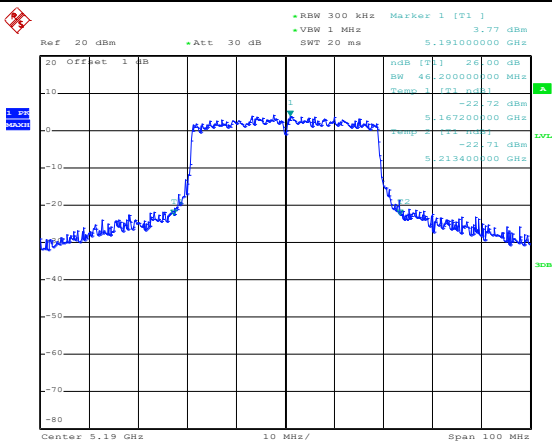
U-NII-3: 5725-5850MHz				
Test Mode	Test Channel MHz	6 dB Bandwidth MHz	99% Bandwidth MHz	Limit MHz
802.11a	5745	16.70	20.50	≥500
	5785	16.80	19.20	≥500
	5825	16.80	18.50	≥500
802.11n-HT20	5745	18.00	20.70	≥500
	5785	18.00	20.10	≥500
	5825	17.90	19.50	≥500
802.11n-HT40	5755	36.80	37.80	≥500
	5795	37.00	37.20	≥500
802.11ax HE20	5745	19.30	20.00	≥500
	5785	19.30	20.00	≥500
	5825	19.30	19.80	≥500
802.11ax HE40	5755	38.80	38.60	≥500
	5795	38.80	38.40	≥500
802.11ac VHT20	5745	18.00	20.50	≥500
	5785	17.90	20.30	≥500
	5825	17.90	19.50	≥500
802.11ac VHT40	5755	37.20	37.60	≥500
	5795	37.00	37.40	≥500

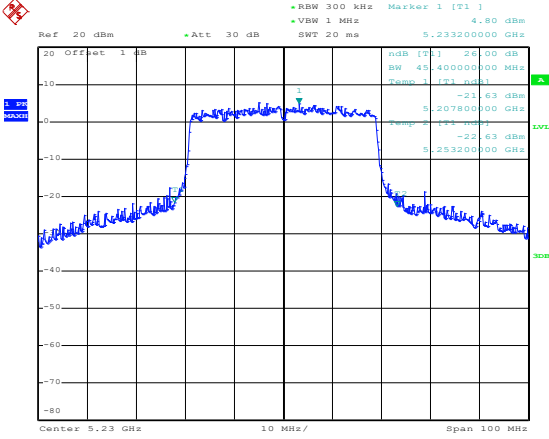
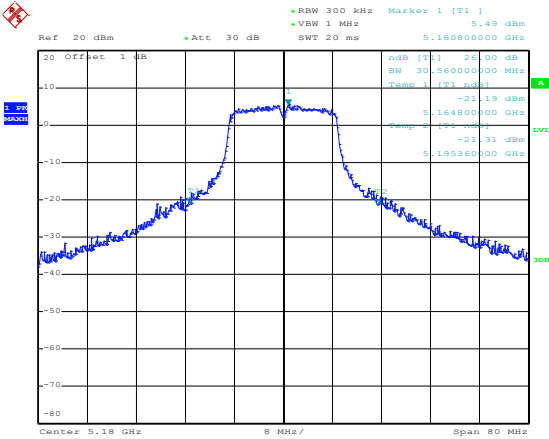
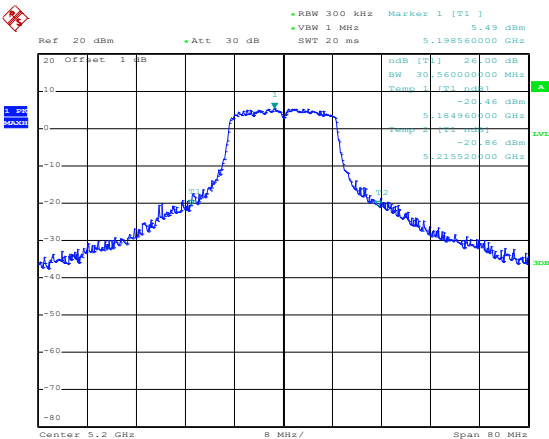
26 dB Bandwidth
5150-5250MHz

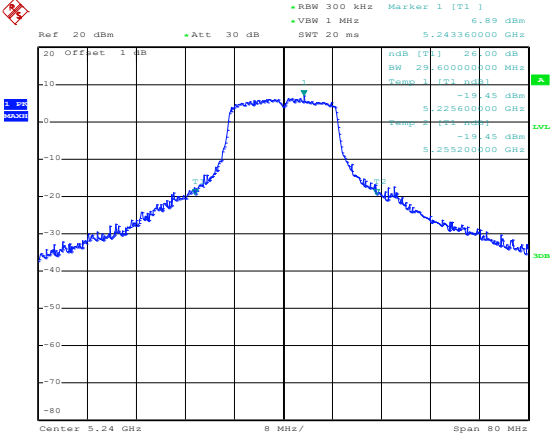
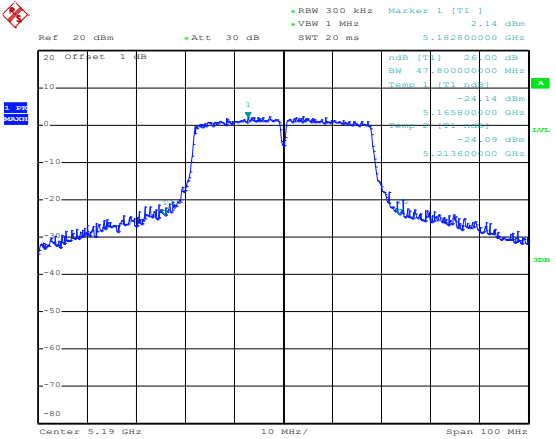
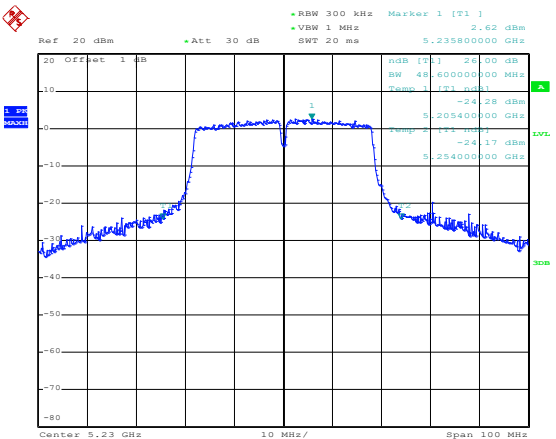
802.11a-Low	Ref 20 dBm Att 30 dB BW 300 kHz Marker 1 [T1] 6.07 dBm VSW 1 MHz SWT 20 ms 5.177960000 GHz ndB [T1] -26.00 dB BW 29.520000000 MHz Temp 1 [T1] ndB -20.43 dBm 5.165840000 GHz -20.32 dBm 5.195360000 GHz Center 5.18 GHz 6 MHz/ Span 60 MHz Date: 22.JUL.2025 10:04:32
802.11a-Middle	Ref 20 dBm Att 30 dB BW 300 kHz Marker 1 [T1] 5.80 dBm VSW 1 MHz SWT 20 ms 5.202880000 GHz ndB [T1] -26.00 dB BW 29.880000000 MHz Temp 1 [T1] ndB -20.25 dBm 5.194520000 GHz -21.08 dBm 5.214400000 GHz Center 5.2 GHz 6 MHz/ Span 60 MHz Date: 22.JUL.2025 10:04:59
802.11a-High	Ref 20 dBm Att 30 dB BW 300 kHz Marker 1 [T1] 6.16 dBm VSW 1 MHz SWT 20 ms 5.237960000 GHz ndB [T1] -26.00 dB BW 27.960000000 MHz Temp 1 [T1] ndB -20.15 dBm 5.226440000 GHz -19.12 dBm 5.254400000 GHz Center 5.24 GHz 6 MHz/ Span 60 MHz Date: 22.JUL.2025 10:05:24

802.11n-HT20-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 5.81 dBm 5.181600000 GHz ndB [T1] 26.00 dB BW 30.88000000 MHz Temp 1 [T1] ndB -20.26 dBm 5.164800000 GHz -20.25 dBm 5.195600000 GHz Center 5.18 GHz 8 MHz/ Span 80 MHz Date: 22.JUL.2025 10:07:57
802.11n-HT20-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 5.68 dBm 5.197920000 GHz ndB [T1] 26.00 dB BW 30.72000000 MHz Temp 1 [T1] ndB -20.74 dBm 5.184000000 GHz -20.36 dBm 5.214720000 GHz Center 5.2 GHz 8 MHz/ Span 80 MHz Date: 22.JUL.2025 10:08:39
802.11n-HT20-High	 Ref 20 dBm Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 6.12 dBm 5.237760000 GHz ndB [T1] 26.00 dB BW 31.68000000 MHz Temp 1 [T1] ndB -20.05 dBm 5.229280000 GHz -20.79 dBm 5.256960000 GHz Center 5.24 GHz 8 MHz/ Span 80 MHz Date: 22.JUL.2025 10:09:39

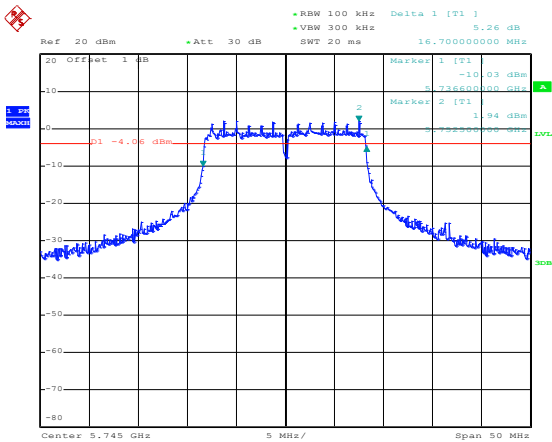
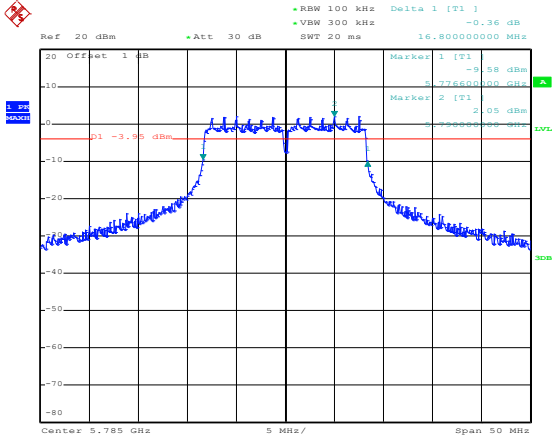
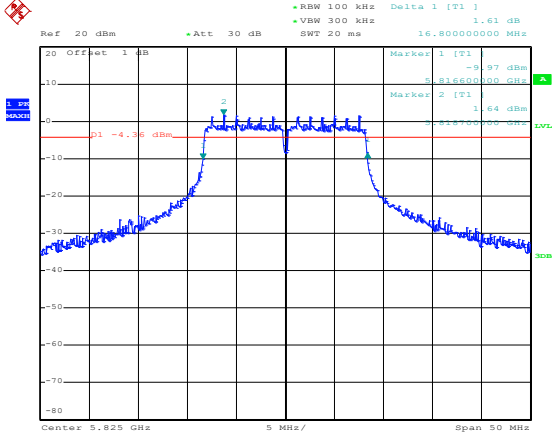
802.11n-HT40-Low	<table border="1" data-bbox="1021 268 1181 403"><thead><tr><th>ndB [T1]</th><th>dBm</th></tr></thead><tbody><tr><td>26.00</td><td>dBm</td></tr><tr><td>48.40</td><td>00000000 MHz</td></tr><tr><td>23.47</td><td>dBm</td></tr><tr><td>5.16640000</td><td>GHz</td></tr><tr><td>23.79</td><td>dBm</td></tr><tr><td>5.21480000</td><td>GHz</td></tr></tbody></table> Date: 22.JUL.2025 10:14:33	ndB [T1]	dBm	26.00	dBm	48.40	00000000 MHz	23.47	dBm	5.16640000	GHz	23.79	dBm	5.21480000	GHz
ndB [T1]	dBm														
26.00	dBm														
48.40	00000000 MHz														
23.47	dBm														
5.16640000	GHz														
23.79	dBm														
5.21480000	GHz														
802.11n-HT40-High	<table border="1" data-bbox="1021 808 1181 943"><thead><tr><th>ndB [T1]</th><th>dBm</th></tr></thead><tbody><tr><td>26.00</td><td>dBm</td></tr><tr><td>48.00</td><td>00000000 MHz</td></tr><tr><td>24.01</td><td>dBm</td></tr><tr><td>5.20620000</td><td>GHz</td></tr><tr><td>23.41</td><td>dBm</td></tr><tr><td>5.25420000</td><td>GHz</td></tr></tbody></table> Date: 22.JUL.2025 10:14:53	ndB [T1]	dBm	26.00	dBm	48.00	00000000 MHz	24.01	dBm	5.20620000	GHz	23.41	dBm	5.25420000	GHz
ndB [T1]	dBm														
26.00	dBm														
48.00	00000000 MHz														
24.01	dBm														
5.20620000	GHz														
23.41	dBm														
5.25420000	GHz														
802.11ax HE20-Low	<table border="1" data-bbox="1021 1348 1181 1482"><thead><tr><th>ndB [T1]</th><th>dBm</th></tr></thead><tbody><tr><td>26.00</td><td>dBm</td></tr><tr><td>27.96</td><td>00000000 MHz</td></tr><tr><td>18.65</td><td>dBm</td></tr><tr><td>5.16632000</td><td>GHz</td></tr><tr><td>19.20</td><td>dBm</td></tr><tr><td>5.19428000</td><td>GHz</td></tr></tbody></table> Date: 22.JUL.2025 10:12:19	ndB [T1]	dBm	26.00	dBm	27.96	00000000 MHz	18.65	dBm	5.16632000	GHz	19.20	dBm	5.19428000	GHz
ndB [T1]	dBm														
26.00	dBm														
27.96	00000000 MHz														
18.65	dBm														
5.16632000	GHz														
19.20	dBm														
5.19428000	GHz														

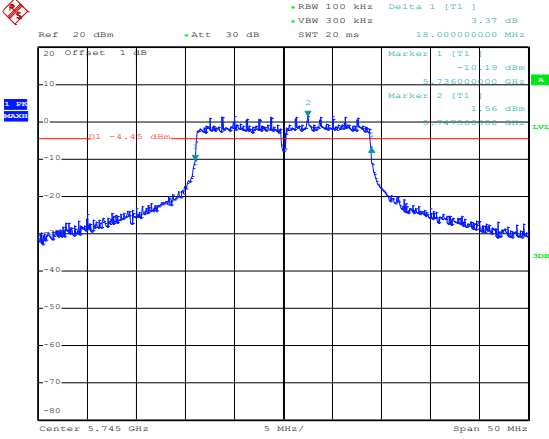
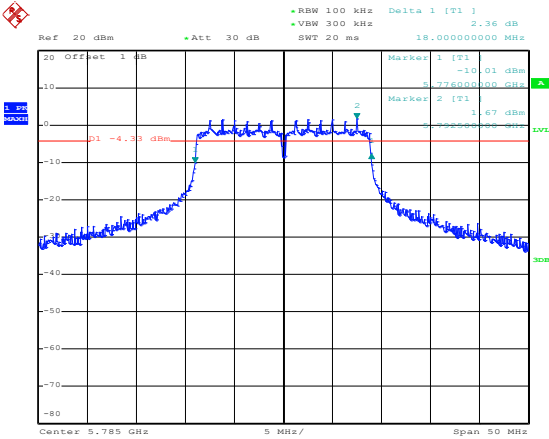
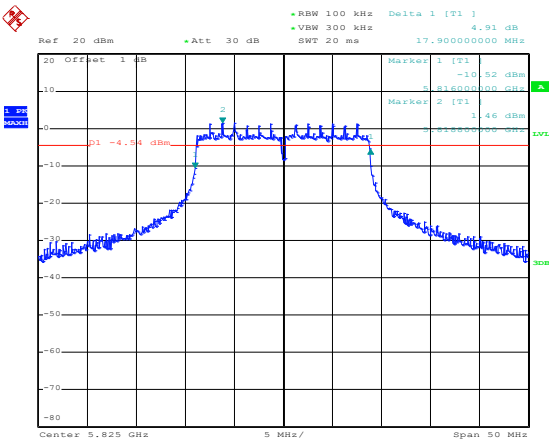
802.11ax HE20-Middle	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 7.77 dBm •VSW 1 MHz SWT 20 ms 5.198080000 GHz ndB [T1] -26.00 dB BW 27.000000000 MHz Temp 1 [T1] ndB -18.71 dBm 5.186920000 GHz -17.71 dBm 5.213920000 GHz Center 5.2 GHz 6 MHz/ Span 60 MHz Date: 22.JUL.2025 10:12:41
802.11ax HE20-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 7.50 dBm •VSW 1 MHz SWT 20 ms 5.242280000 GHz ndB [T1] -26.00 dB BW 27.480000000 MHz Temp 1 [T1] ndB -18.56 dBm 5.226080000 GHz -18.59 dBm 5.253560000 GHz Center 5.24 GHz 6 MHz/ Span 60 MHz Date: 22.JUL.2025 10:13:16
802.11ax HE40- Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 3.77 dBm •VSW 1 MHz SWT 20 ms 5.191000000 GHz ndB [T1] -26.00 dB BW 46.200000000 MHz Temp 1 [T1] ndB -22.72 dBm 5.167200000 GHz -22.71 dBm 5.213400000 GHz Center 5.19 GHz 10 MHz/ Span 100 MHz Date: 22.JUL.2025 10:16:20

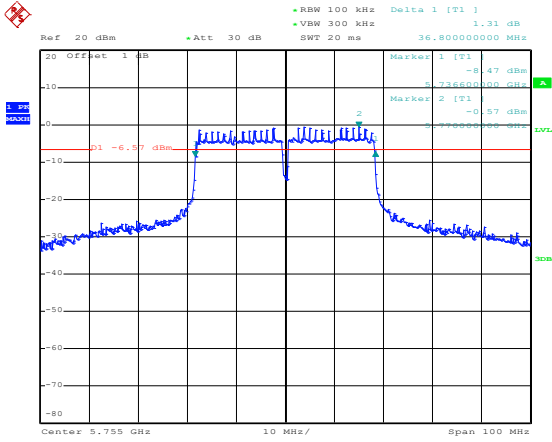
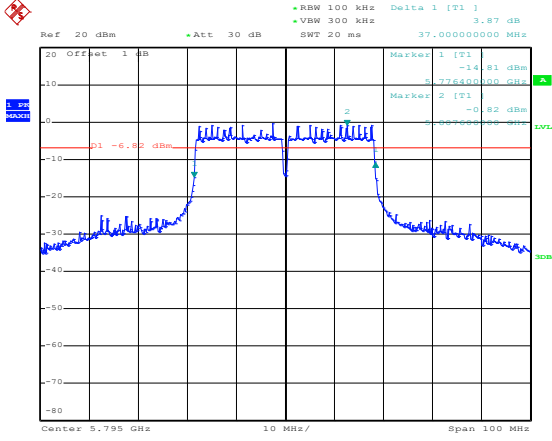
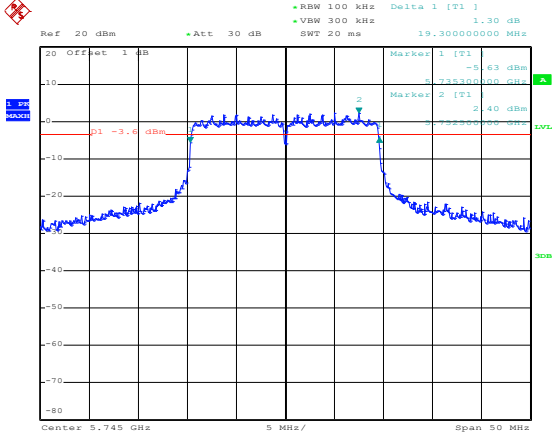
802.11ax HE40-High	 Date: 22.JUL.2025 10:16:38
802.11ac-VHT20-Low	 Date: 22.JUL.2025 10:10:24
802.11ac-VHT20-Middle	 Date: 22.JUL.2025 10:10:45

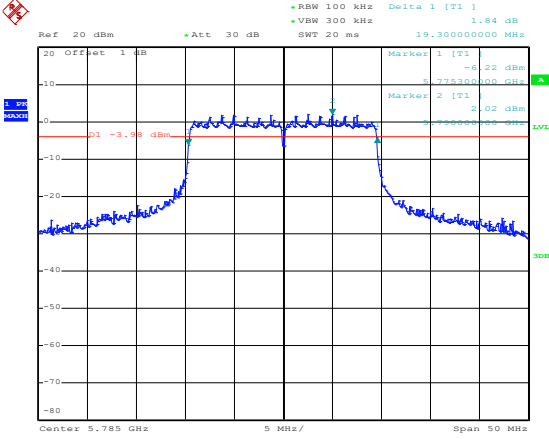
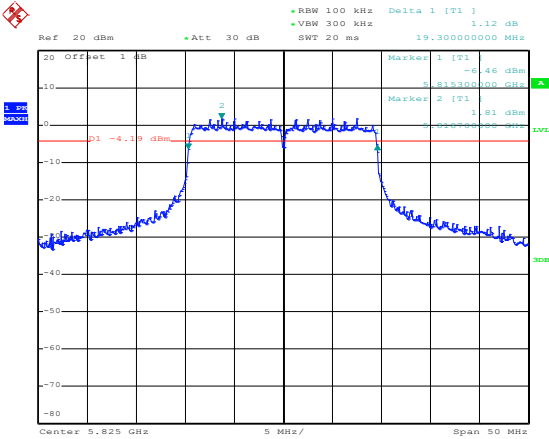
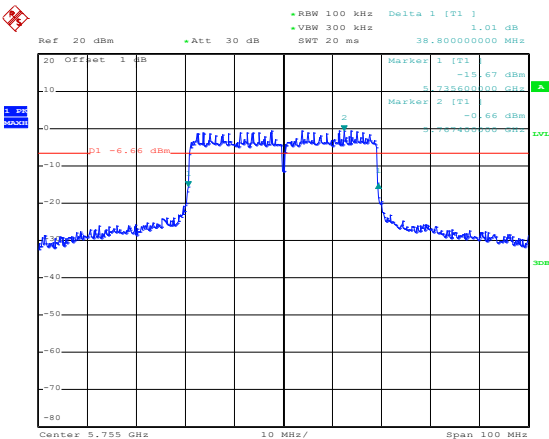
802.11ac-VHT20-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 6.89 dBm VSWR 1 MHz SWR 20 ms 5.243360000 GHz ndB [T1] 26.00 dB BW 29.60000000 MHz Temp 1 [T1] ndB -19.45 dBm 5.225600000 GHz -19.45 dBm 5.253200000 GHz Center 5.24 GHz 8 MHz/ Span 80 MHz Date: 22.JUL.2025 10:11:31
802.11ac-VHT40-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 2.14 dBm VSWR 1 MHz SWR 20 ms 5.182800000 GHz ndB [T1] 26.00 dB BW 47.80000000 MHz Temp 1 [T1] ndB -24.14 dBm 5.165800000 GHz -24.09 dBm 5.213600000 GHz Center 5.19 GHz 10 MHz/ Span 100 MHz Date: 22.JUL.2025 10:15:28
802.11ac-VHT40-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 2.62 dBm VSWR 1 MHz SWR 20 ms 5.235800000 GHz ndB [T1] 26.00 dB BW 48.60000000 MHz Temp 1 [T1] ndB -24.28 dBm 5.205400000 GHz -24.17 dBm 5.254000000 GHz Center 5.23 GHz 10 MHz/ Span 100 MHz Date: 22.JUL.2025 10:15:46

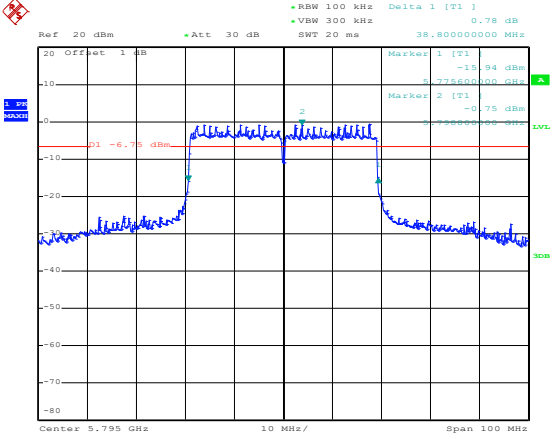
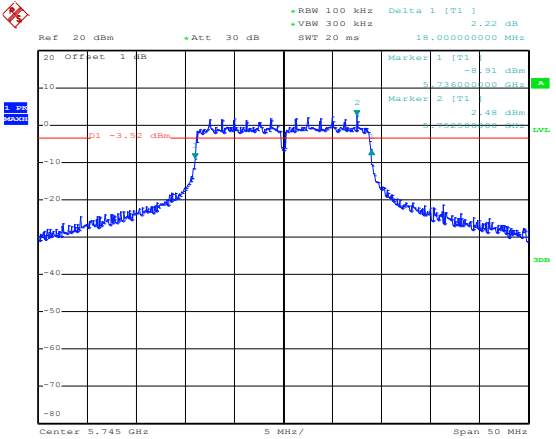
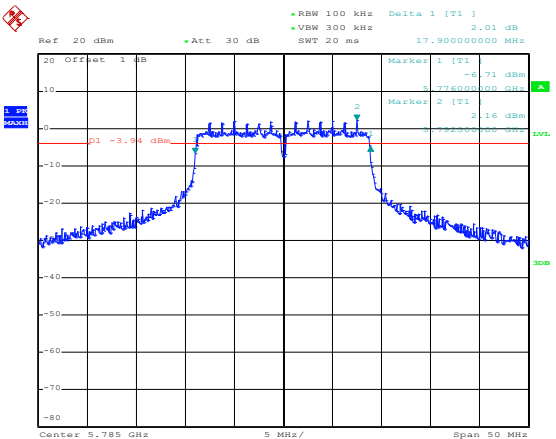
6 dB Bandwidth
5725-5850MHz

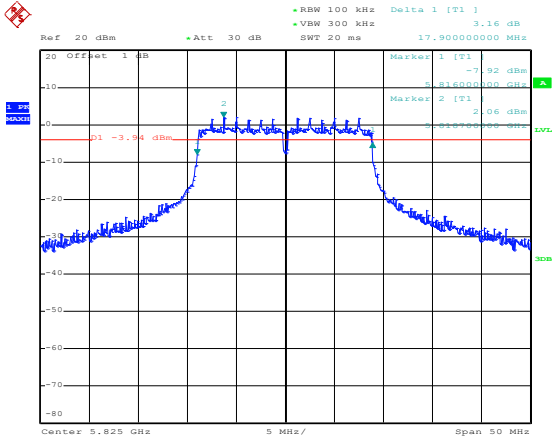
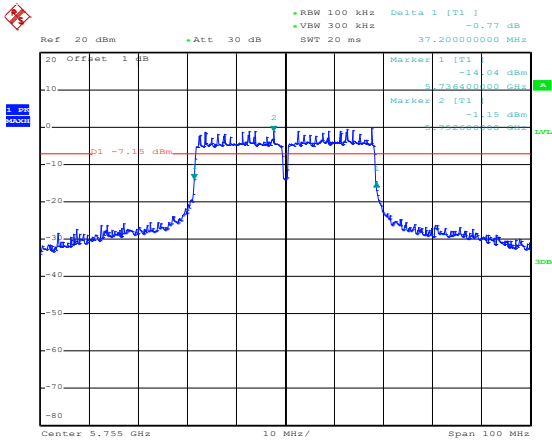
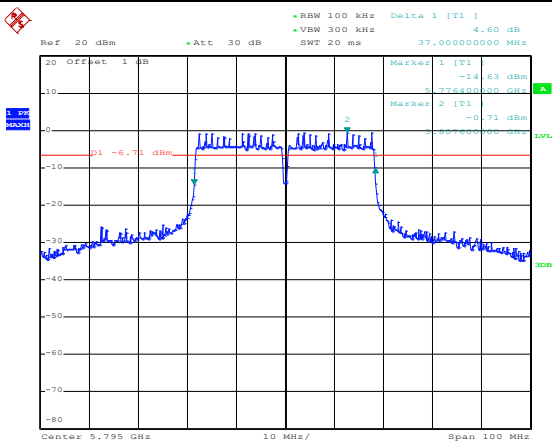
802.11a-Low	 Ref 20 dBm Offset 1 dB Att 30 dB RBW 100 kHz VBW 300 kHz SWT 20 ms Delta 1 [T1] 5.26 dB Marker 1 [T1] -10.03 dBm 5.736500000 GHz Marker 2 [T1] 1.94 dBm 5.845000000 GHz D1 -4.06 dBm Center 5.745 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 13:53:10
802.11a-Middle	 Ref 20 dBm Offset 1 dB Att 30 dB RBW 100 kHz VBW 300 kHz SWT 20 ms Delta 1 [T1] -0.36 dB Marker 1 [T1] -9.58 dBm 5.776500000 GHz Marker 2 [T1] 2.05 dBm 5.845000000 GHz D1 -3.95 dBm Center 5.785 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 13:56:10
802.11a-High	 Ref 20 dBm Offset 1 dB Att 30 dB RBW 100 kHz VBW 300 kHz SWT 20 ms Delta 1 [T1] 1.61 dB Marker 1 [T1] -9.97 dBm 5.836500000 GHz Marker 2 [T1] 1.64 dBm 5.845000000 GHz D1 -4.38 dBm Center 5.825 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 13:57:15

802.11n-HT20-Low	 Ref 20 dBm • Att 30 dB • RBW 100 kHz • VSW 300 kHz • SWT 20 ms • Delta 1 [T1] 3.37 dB Marker 1 [T1] -10.19 dBm Marker 2 [T1] -1.56 dBm Center 5.745 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 13:58:56
802.11n-HT20-Middle	 Ref 20 dBm • Att 30 dB • RBW 100 kHz • VSW 300 kHz • SWT 20 ms • Delta 1 [T1] 2.36 dB Marker 1 [T1] -10.01 dBm Marker 2 [T1] -1.67 dBm Center 5.785 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 13:59:52
802.11n-HT20-High	 Ref 20 dBm • Att 30 dB • RBW 100 kHz • VSW 300 kHz • SWT 20 ms • Delta 1 [T1] 4.91 dB Marker 1 [T1] -10.52 dBm Marker 2 [T1] -1.46 dBm Center 5.825 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 14:00:49

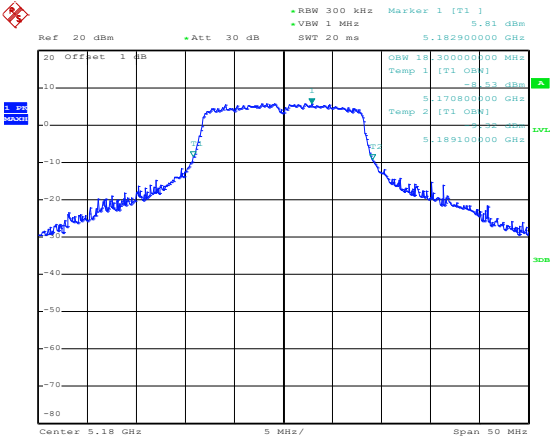
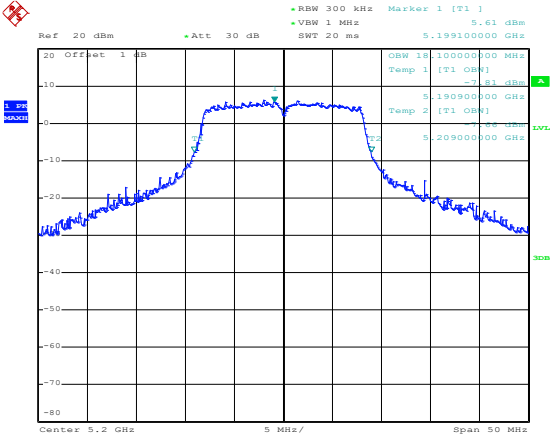
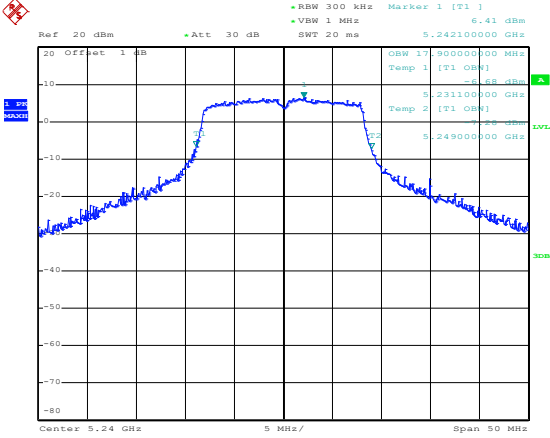
802.11n-HT40-Low	 Ref 20 dBm Att 30 dB RBW 100 kHz VSW 300 kHz SWT 20 ms Delta 1 [T1] 1.31 dB 36.80000000 MHz Marker 1 [T1] -8.47 dBm 5.73600000 GHz Marker 2 [T1] -0.57 dBm 5.75500000 GHz Center 5.755 GHz 10 MHz/ Span 100 MHz Date: 22.JUL.2025 14:10:40
802.11n-HT40-High	 Ref 20 dBm Att 30 dB RBW 100 kHz VSW 300 kHz SWT 20 ms Delta 1 [T1] 3.87 dB 37.00000000 MHz Marker 1 [T1] -14.81 dBm 5.77640000 GHz Marker 2 [T1] -0.82 dBm 5.79500000 GHz Center 5.795 GHz 10 MHz/ Span 100 MHz Date: 22.JUL.2025 14:12:20
802.11ax HE20-Low	 Ref 20 dBm Att 30 dB RBW 100 kHz VSW 300 kHz SWT 20 ms Delta 1 [T1] 1.30 dB 19.30000000 MHz Marker 1 [T1] -5.63 dBm 5.73630000 GHz Marker 2 [T1] -2.40 dBm 5.74500000 GHz Center 5.745 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 14:06:43

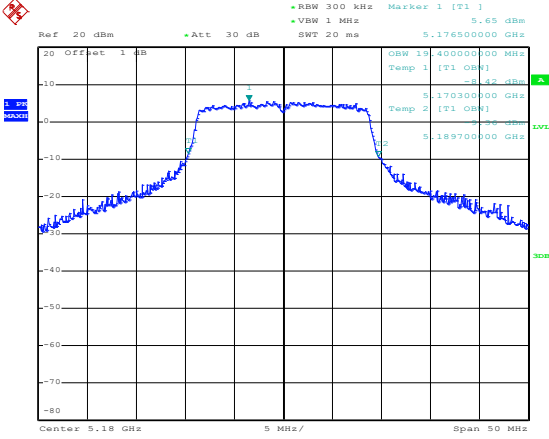
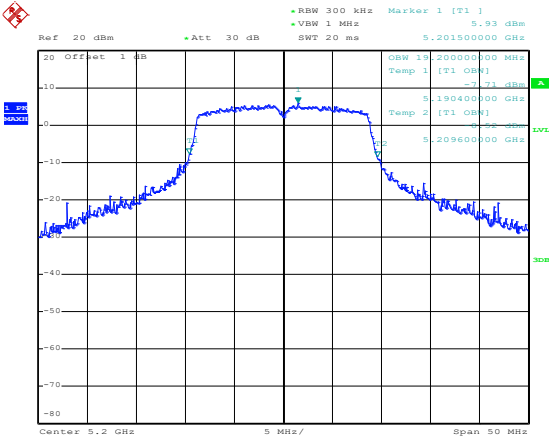
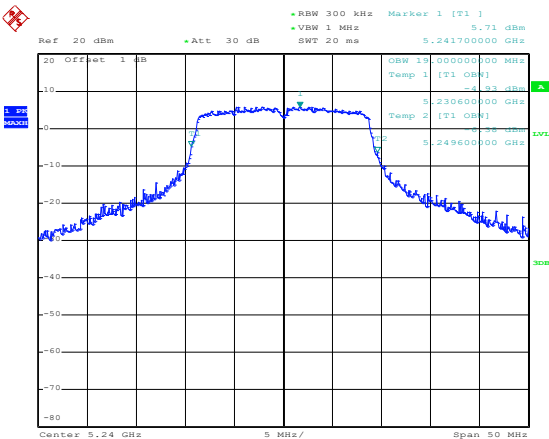
802.11ax HE20-Middle	 Ref 20 dBm Att 30 dB RBW 100 kHz VSW 300 kHz Delta 1 [T1] 1.84 dB SWT 20 ms 19.300000000 MHz Marker 1 [T1] -6.22 dBm 5.775300000 GHz Marker 2 [T1] -6.02 dBm 5.785300000 GHz D1 -3.98 dBm Center 5.785 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 14:07:36
802.11ax HE20-High	 Ref 20 dBm Att 30 dB RBW 100 kHz VSW 300 kHz Delta 1 [T1] 1.12 dB SWT 20 ms 19.300000000 MHz Marker 1 [T1] -6.46 dBm 5.813300000 GHz Marker 2 [T1] -6.81 dBm 5.825300000 GHz D1 -4.18 dBm Center 5.825 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 14:56:28
802.11ax HE40- Low	 Ref 20 dBm Att 30 dB RBW 100 kHz VSW 300 kHz Delta 1 [T1] 1.01 dB SWT 20 ms 38.800000000 MHz Marker 1 [T1] -15.67 dBm 5.738500000 GHz Marker 2 [T1] -0.66 dBm 5.755500000 GHz D1 -6.66 dBm Center 5.755 GHz 10 MHz/ Span 100 MHz Date: 22.JUL.2025 14:15:35

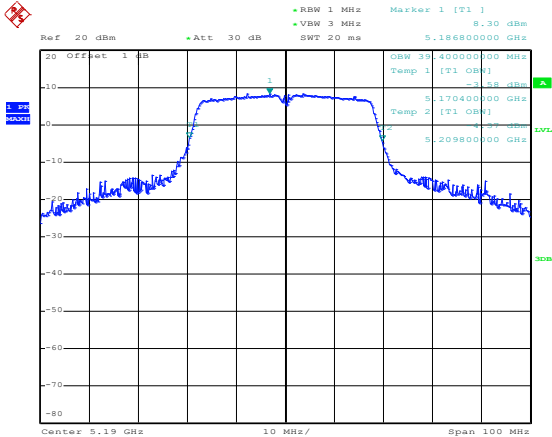
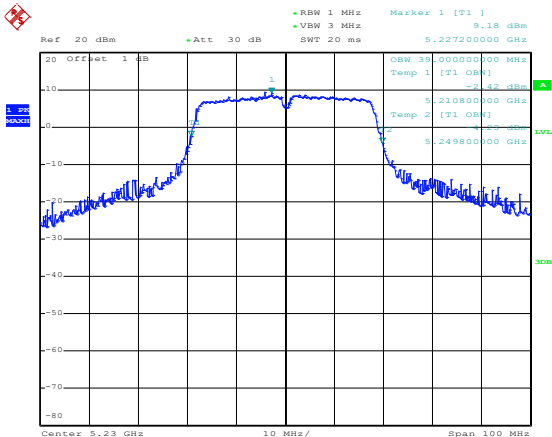
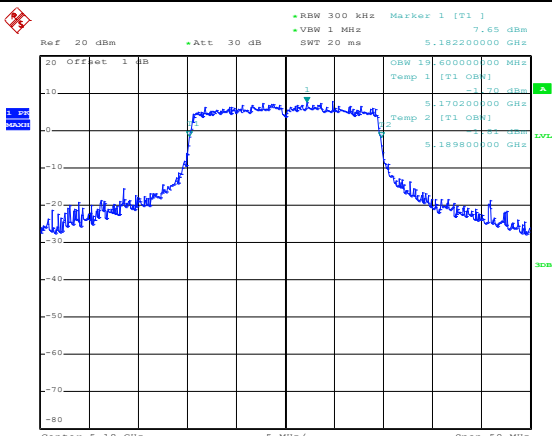
802.11ax HE40-High	 Ref 20 dBm Att 30 dB RBW 100 kHz VSW 300 kHz SWT 20 ms Delta 1 [T1] 0.78 dB 38.800000000 MHz Marker 1 [T1] -15.94 dBm 5.795000000 GHz Marker 2 [T1] -6.75 dBm 5.795000000 GHz Center 5.795 GHz 10 MHz/ Span 100 MHz Date: 22.JUL.2025 14:16:40
802.11ac-VHT20-Low	 Ref 20 dBm Att 30 dB RBW 100 kHz VSW 300 kHz SWT 20 ms Delta 1 [T1] 2.22 dB 18.000000000 MHz Marker 1 [T1] -8.91 dBm 5.738000000 GHz Marker 2 [T1] -3.92 dBm 5.738000000 GHz Center 5.745 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 14:02:53
802.11ac-VHT20-Middle	 Ref 20 dBm Att 30 dB RBW 100 kHz VSW 300 kHz SWT 20 ms Delta 1 [T1] 2.01 dB 17.900000000 MHz Marker 1 [T1] -6.71 dBm 5.778000000 GHz Marker 2 [T1] -3.94 dBm 5.778000000 GHz Center 5.785 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 14:03:56

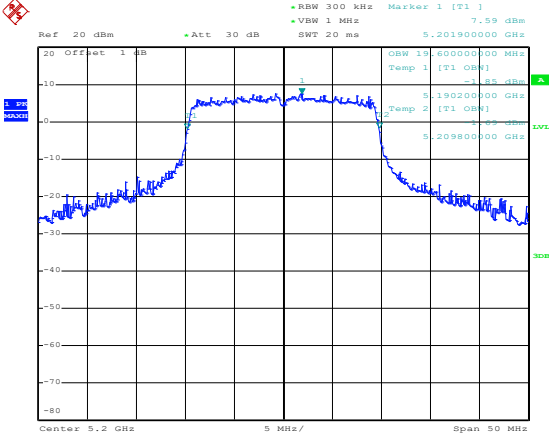
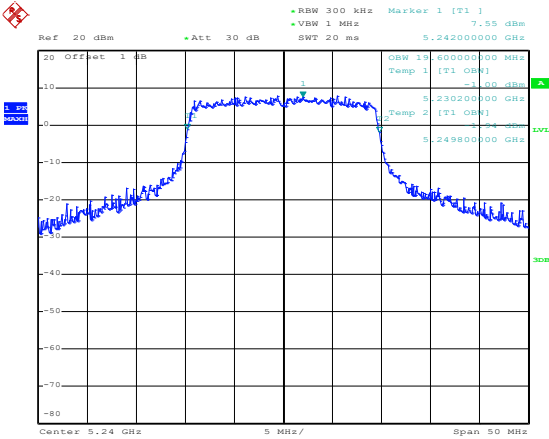
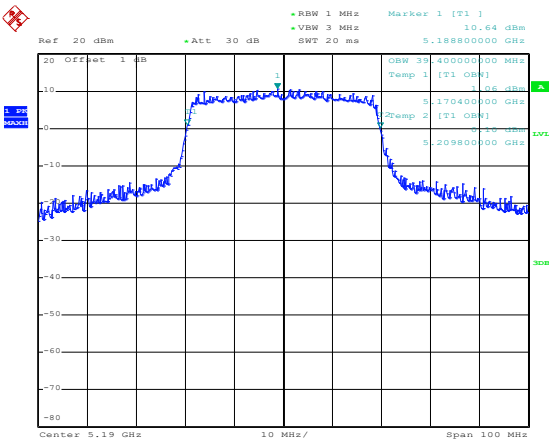
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802.11ac-VHT40-Low	 Date: 22.JUL.2025 14:13:23
802.11ac-VHT40-High	 Date: 22.JUL.2025 14:14:19

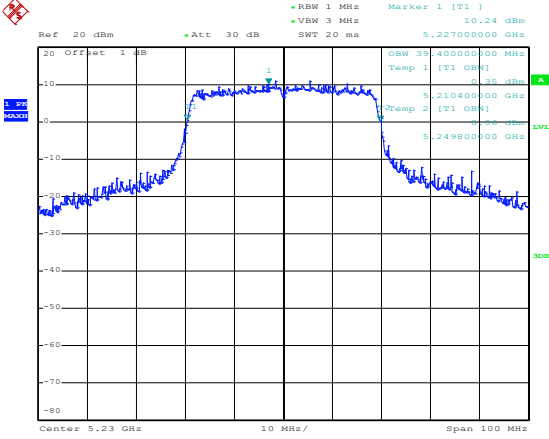
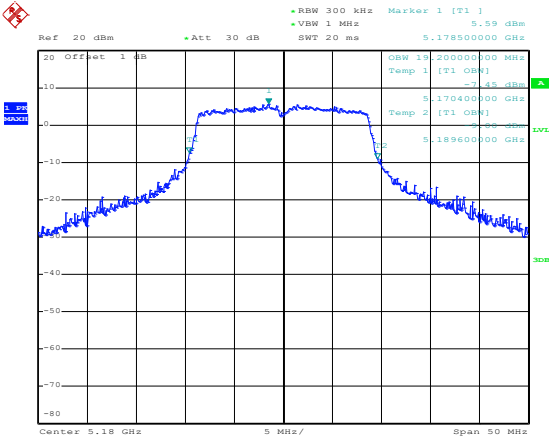
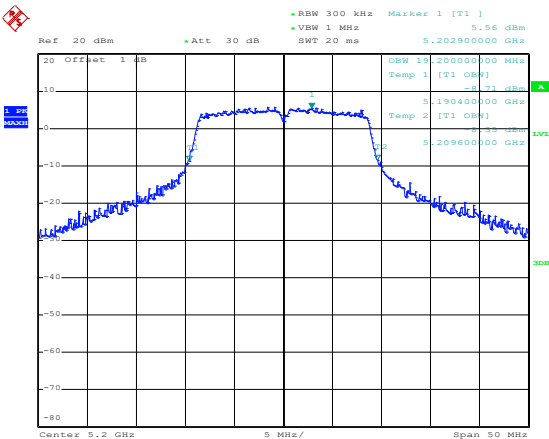
99% Bandwidth
5150-5250MHz

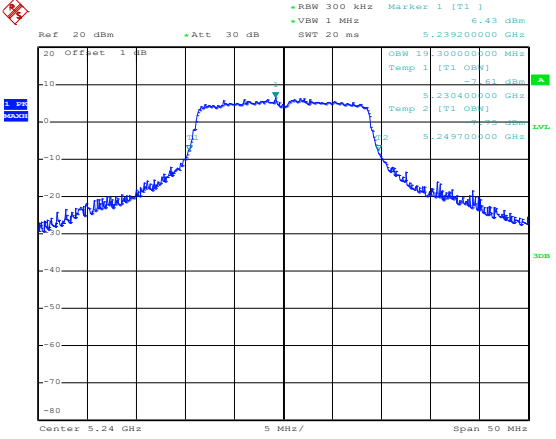
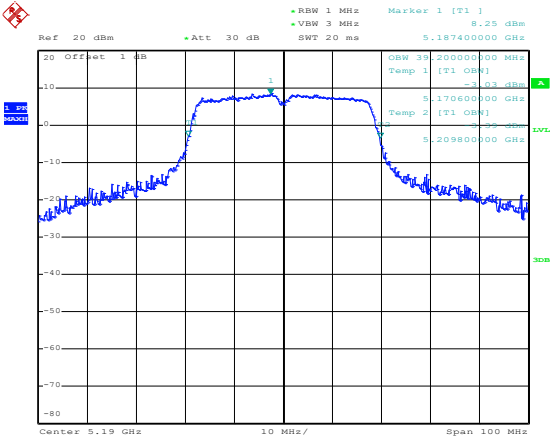
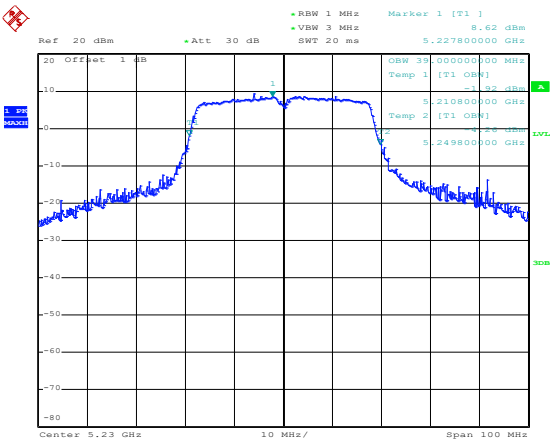
802.11a-Low	 Date: 22.JUL.2025 10:19:06
802.11a-Middle	 Date: 22.JUL.2025 10:19:31
802.11a-High	 Date: 22.JUL.2025 10:20:01

802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 5.65 dBm •VSW 1 MHz SWT 20 ms 5.176500000 GHz OSW 10.400000000 MHz Temp 1 [T1 OBW] -5.42 dBm 5.170300000 GHz Temp 2 [T1 OBW] -5.38 dBm 5.189700000 GHz Center 5.18 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 10:21:22
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 5.93 dBm •VSW 1 MHz SWT 20 ms 5.201500000 GHz OSW 10.200000000 MHz Temp 1 [T1 OBW] -7.71 dBm 5.190400000 GHz Temp 2 [T1 OBW] -7.68 dBm 5.209600000 GHz Center 5.2 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 10:21:38
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 5.71 dBm •VSW 1 MHz SWT 20 ms 5.241700000 GHz OSW 10.000000000 MHz Temp 1 [T1 OBW] -6.93 dBm 5.230600000 GHz Temp 2 [T1 OBW] -6.88 dBm 5.249600000 GHz Center 5.24 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 10:21:54

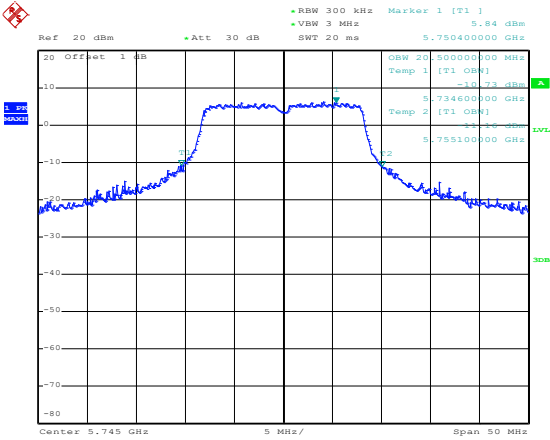
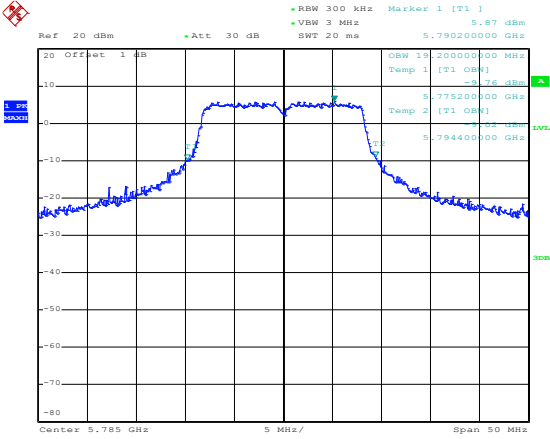
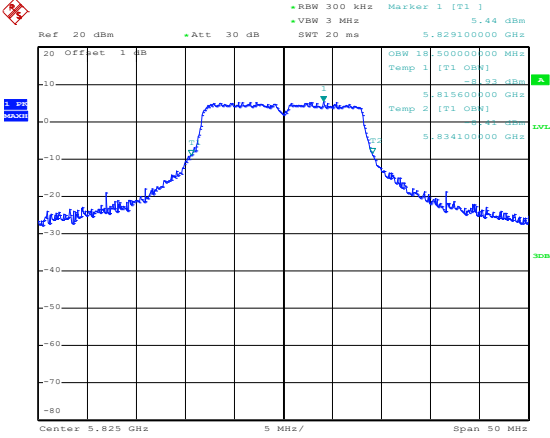
802.11n-HT40-Low	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] 8.30 dBm •VSW 3 MHz SWT 20 ms 5.186800000 GHz OSW 30.400000000 MHz Temp 1 [T1] 0.00 dBm Temp 2 [T1] 0.00 dBm 5.170400000 GHz 5.170400000 GHz 5.209800000 GHz Center 5.19 GHz 10 MHz/ Span 100 MHz Date: 22.JUL.2025 10:28:17
802.11n-HT40-High	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] 9.18 dBm •VSW 3 MHz SWT 20 ms 5.227200000 GHz OSW 30.000000000 MHz Temp 1 [T1] 0.00 dBm Temp 2 [T1] 0.00 dBm 5.210800000 GHz 5.210800000 GHz 5.249800000 GHz Center 5.23 GHz 10 MHz/ Span 100 MHz Date: 22.JUL.2025 10:28:33
802.11ax HE20-Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 7.65 dBm •VSW 1 MHz SWT 20 ms 5.182200000 GHz OSW 19.600000000 MHz Temp 1 [T1] 0.00 dBm Temp 2 [T1] 0.00 dBm 5.170200000 GHz 5.170200000 GHz 5.189800000 GHz Center 5.18 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 10:25:42

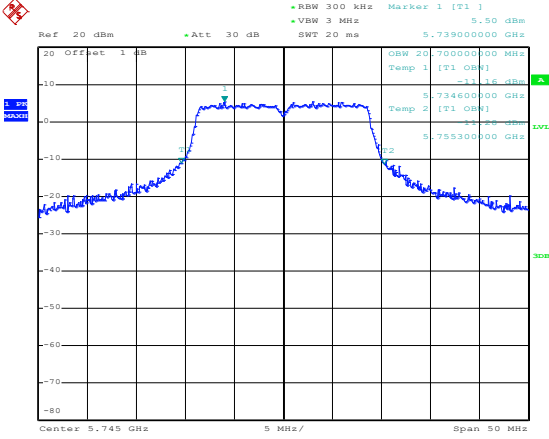
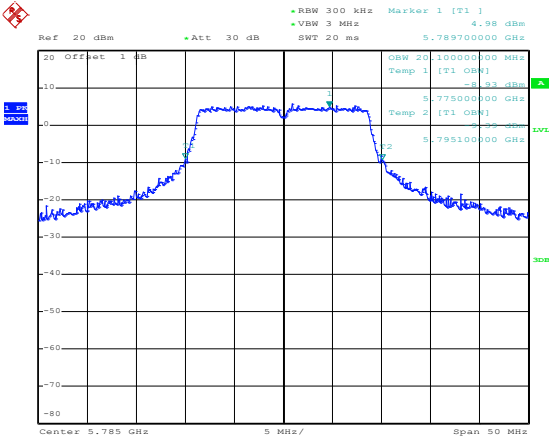
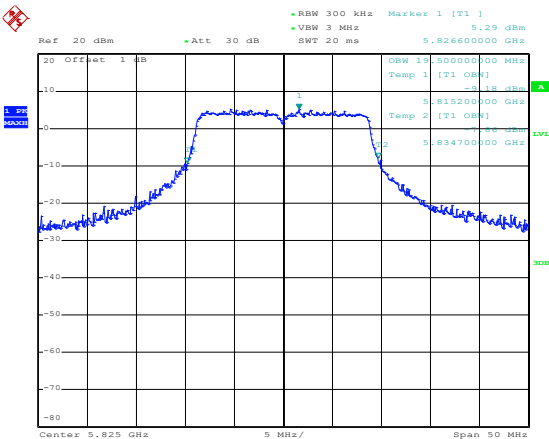
802.11ax HE20-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 7.59 dBm VSW 1 MHz SWT 20 ms 5.201900000 GHz OSW 10.00000000 MHz Temp 1 [T1] 0.00 dBm -1.85 dBm 5.190200000 GHz Temp 2 [T1] 0.00 dBm -1.85 dBm 5.209800000 GHz Center 5.2 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 10:26:05
802.11ax HE20-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 7.55 dBm VSW 1 MHz SWT 20 ms 5.242000000 GHz OSW 10.00000000 MHz Temp 1 [T1] 0.00 dBm -1.60 dBm 5.230200000 GHz Temp 2 [T1] 0.00 dBm -1.64 dBm 5.249800000 GHz Center 5.24 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 10:26:23
802.11ax HE40- Low	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] 10.64 dBm VSW 3 MHz SWT 20 ms 5.188800000 GHz OSW 30.00000000 MHz Temp 1 [T1] 0.00 dBm -1.05 dBm 5.170400000 GHz Temp 2 [T1] 0.00 dBm -1.10 dBm 5.209800000 GHz Center 5.19 GHz 10 MHz/ Span 100 MHz Date: 22.JUL.2025 10:33:28

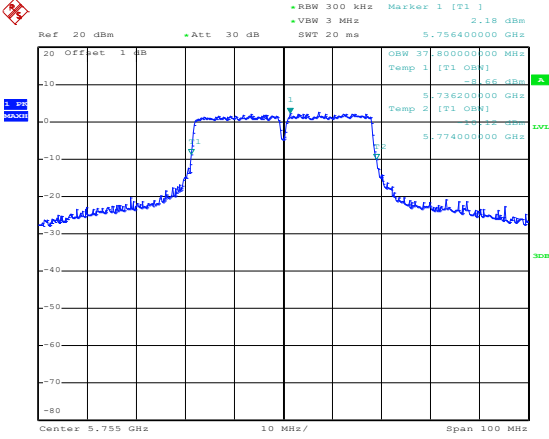
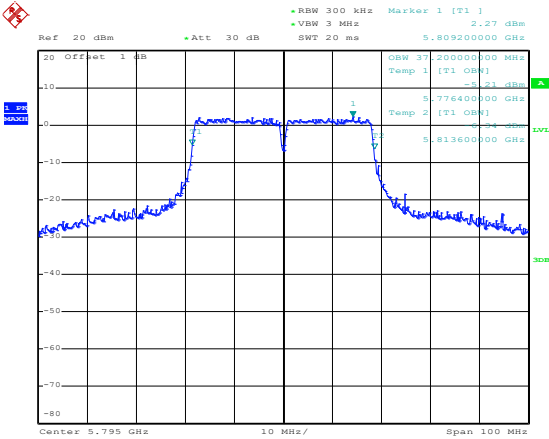
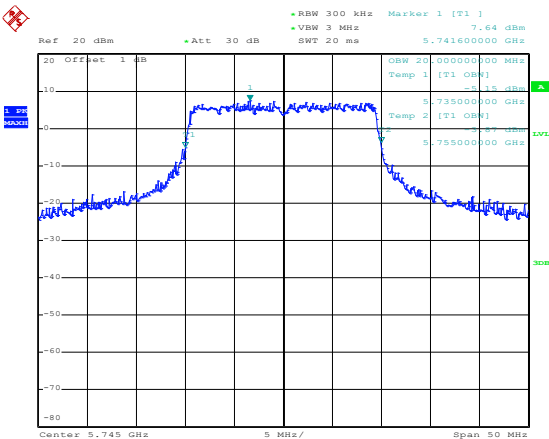
802.11ax HE40-High	 Ref 20 dBm Att 30 dB RBW 1 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] 10.24 dBm Obs 20.40000000 MHz Temp 1 [T1 Obs] -10.35 dBm 5.210400000 GHz Temp 2 [T1 Obs] -10.35 dBm 5.249800000 GHz Center 5.23 GHz 10 MHz/ Span 100 MHz Date: 22.JUL.2025 10:34:32
802.11ac-VHT20-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 5.59 dBm Obs 10.20000000 MHz Temp 1 [T1 Obs] -7.45 dBm 5.170400000 GHz Temp 2 [T1 Obs] -7.45 dBm 5.189600000 GHz Center 5.18 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 10:23:00
802.11ac-VHT20-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 5.56 dBm Obs 10.20000000 MHz Temp 1 [T1 Obs] -8.71 dBm 5.190400000 GHz Temp 2 [T1 Obs] -8.71 dBm 5.209600000 GHz Center 5.2 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 10:23:18

802.11ac-VHT20-High	 Date: 22.JUL.2025 10:23:51
802.11ac-VHT40-Low	 Date: 22.JUL.2025 10:29:11
802.11ac-VHT40-High	 Date: 22.JUL.2025 10:29:40

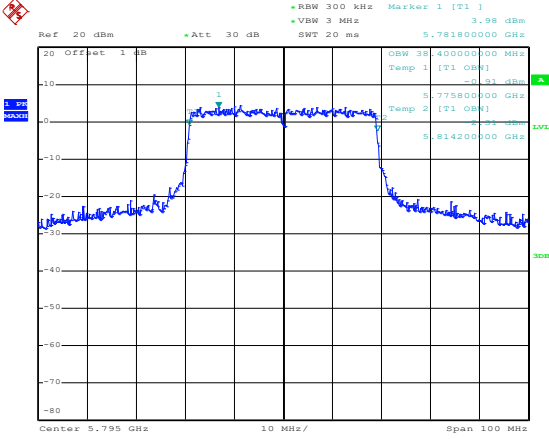
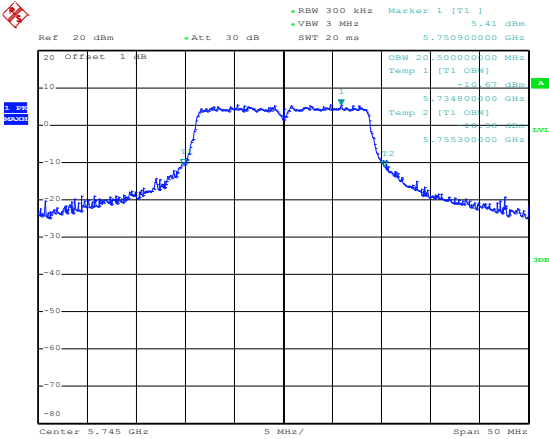
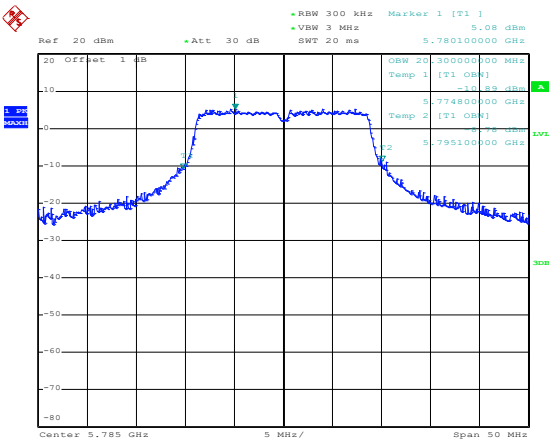
99% dB Bandwidth
5725-5850MHz

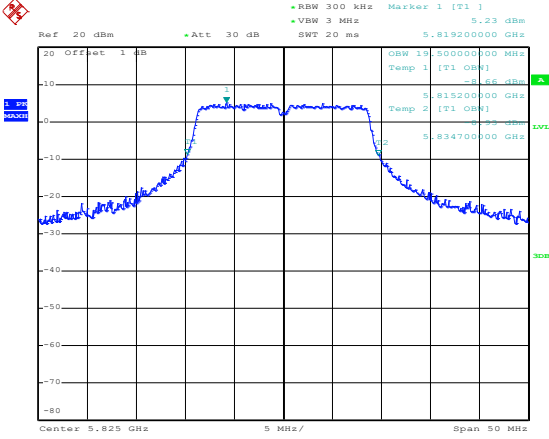
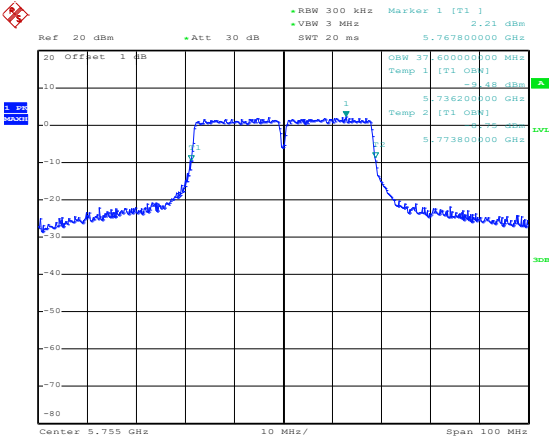
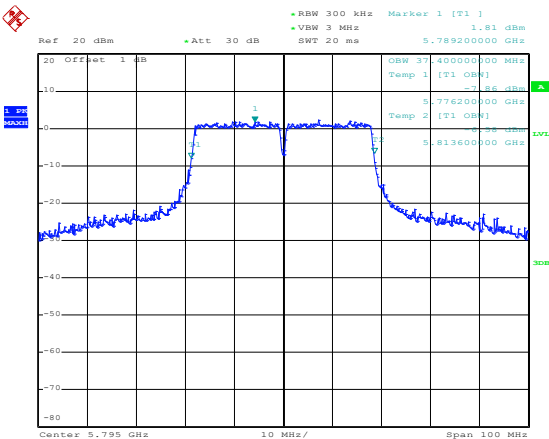
802.11a-Low	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 5.84 dBm VBW 3 MHz SWT 20 ms 5.750400000 GHz OSW 20.500000000 MHz Temp 1 [T1] 0dBm Temp 2 [T1] 0dBm 5.734600000 GHz 5.755100000 GHz Center 5.745 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 14:18:28
802.11a-Middle	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 5.87 dBm VBW 3 MHz SWT 20 ms 5.790200000 GHz OSW 19.200000000 MHz Temp 1 [T1] 0dBm Temp 2 [T1] 0dBm 5.775200000 GHz 5.794400000 GHz Center 5.785 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 14:18:52
802.11a-High	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 5.44 dBm VBW 3 MHz SWT 20 ms 5.829100000 GHz OSW 10.500000000 MHz Temp 1 [T1] 0dBm Temp 2 [T1] 0dBm 5.815600000 GHz 5.834100000 GHz Center 5.825 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 14:19:10

802.11n-HT20-Low	 Date: 22.JUL.2025 14:19:52
802.11n-HT20-Middle	 Date: 22.JUL.2025 14:20:10
802.11n-HT20-High	 Date: 22.JUL.2025 14:20:27

802.11n-HT40-Low	 Date: 22.JUL.2025 14:24:03
802.11n-HT40-High	 Date: 22.JUL.2025 14:24:21
802.11ax HE20-Low	 Date: 22.JUL.2025 14:22:08

Channel	Plot Type	Frequency (GHz)	Power (dBm)	Bandwidth (MHz)	Attenuation (dB)	SWT (ms)	Marker 1 [T1]	Marker 2 [T2]	Marker 3 [T3]	Marker 4 [T4]	Marker 5 [T5]	Marker 6 [T6]	Marker 7 [T7]	Marker 8 [T8]	Marker 9 [T9]	Marker 10 [T10]	Marker 11 [T11]	Marker 12 [T12]	Marker 13 [T13]	Marker 14 [T14]	Marker 15 [T15]	Marker 16 [T16]	Marker 17 [T17]	Marker 18 [T18]	Marker 19 [T19]	Marker 20 [T20]	Marker 21 [T21]	Marker 22 [T22]	Marker 23 [T23]	Marker 24 [T24]	Marker 25 [T25]	Marker 26 [T26]	Marker 27 [T27]	Marker 28 [T28]	Marker 29 [T29]	Marker 30 [T30]	Marker 31 [T31]	Marker 32 [T32]	Marker 33 [T33]	Marker 34 [T34]	Marker 35 [T35]	Marker 36 [T36]	Marker 37 [T37]	Marker 38 [T38]	Marker 39 [T39]	Marker 40 [T40]	Marker 41 [T41]	Marker 42 [T42]	Marker 43 [T43]	Marker 44 [T44]	Marker 45 [T45]	Marker 46 [T46]	Marker 47 [T47]	Marker 48 [T48]	Marker 49 [T49]	Marker 50 [T50]	Marker 51 [T51]	Marker 52 [T52]	Marker 53 [T53]	Marker 54 [T54]	Marker 55 [T55]	Marker 56 [T56]	Marker 57 [T57]	Marker 58 [T58]	Marker 59 [T59]	Marker 60 [T60]	Marker 61 [T61]	Marker 62 [T62]	Marker 63 [T63]	Marker 64 [T64]	Marker 65 [T65]	Marker 66 [T66]	Marker 67 [T67]	Marker 68 [T68]	Marker 69 [T69]	Marker 70 [T70]	Marker 71 [T71]	Marker 72 [T72]	Marker 73 [T73]	Marker 74 [T74]	Marker 75 [T75]	Marker 76 [T76]	Marker 77 [T77]	Marker 78 [T78]	Marker 79 [T79]	Marker 80 [T80]	Marker 81 [T81]	Marker 82 [T82]	Marker 83 [T83]	Marker 84 [T84]	Marker 85 [T85]	Marker 86 [T86]	Marker 87 [T87]	Marker 88 [T88]	Marker 89 [T89]	Marker 90 [T90]	Marker 91 [T91]	Marker 92 [T92]	Marker 93 [T93]	Marker 94 [T94]	Marker 95 [T95]	Marker 96 [T96]	Marker 97 [T97]	Marker 98 [T98]	Marker 99 [T99]	Marker 100 [T100]	Marker 101 [T101]	Marker 102 [T102]	Marker 103 [T103]	Marker 104 [T104]	Marker 105 [T105]	Marker 106 [T106]	Marker 107 [T107]	Marker 108 [T108]	Marker 109 [T109]	Marker 110 [T110]	Marker 111 [T111]	Marker 112 [T112]	Marker 113 [T113]	Marker 114 [T114]	Marker 115 [T115]	Marker 116 [T116]	Marker 117 [T117]	Marker 118 [T118]	Marker 119 [T119]	Marker 120 [T120]	Marker 121 [T121]	Marker 122 [T122]	Marker 123 [T123]	Marker 124 [T124]	Marker 125 [T125]	Marker 126 [T126]	Marker 127 [T127]	Marker 128 [T128]	Marker 129 [T129]	Marker 130 [T130]	Marker 131 [T131]	Marker 132 [T132]	Marker 133 [T133]	Marker 134 [T134]	Marker 135 [T135]	Marker 136 [T136]	Marker 137 [T137]	Marker 138 [T138]	Marker 139 [T139]	Marker 140 [T140]	Marker 141 [T141]	Marker 142 [T142]	Marker 143 [T143]	Marker 144 [T144]	Marker 145 [T145]	Marker 146 [T146]	Marker 147 [T147]	Marker 148 [T148]	Marker 149 [T149]	Marker 150 [T150]	Marker 151 [T151]	Marker 152 [T152]	Marker 153 [T153]	Marker 154 [T154]	Marker 155 [T155]	Marker 156 [T156]	Marker 157 [T157]	Marker 158 [T158]	Marker 159 [T159]	Marker 160 [T160]	Marker 161 [T161]	Marker 162 [T162]	Marker 163 [T163]	Marker 164 [T164]	Marker 165 [T165]	Marker 166 [T166]	Marker 167 [T167]	Marker 168 [T168]	Marker 169 [T169]	Marker 170 [T170]	Marker 171 [T171]	Marker 172 [T172]	Marker 173 [T173]	Marker 174 [T174]	Marker 175 [T175]	Marker 176 [T176]	Marker 177 [T177]	Marker 178 [T178]	Marker 179 [T179]	Marker 180 [T180]	Marker 181 [T181]	Marker 182 [T182]	Marker 183 [T183]	Marker 184 [T184]	Marker 185 [T185]	Marker 186 [T186]	Marker 187 [T187]	Marker 188 [T188]	Marker 189 [T189]	Marker 190 [T190]	Marker 191 [T191]	Marker 192 [T192]	Marker 193 [T193]	Marker 194 [T194]	Marker 195 [T195]	Marker 196 [T196]	Marker 197 [T197]	Marker 198 [T198]	Marker 199 [T199]	Marker 200 [T200]	Marker 201 [T201]	Marker 202 [T202]	Marker 203 [T203]	Marker 204 [T204]	Marker 205 [T205]	Marker 206 [T206]	Marker 207 [T207]	Marker 208 [T208]	Marker 209 [T209]	Marker 210 [T210]	Marker 211 [T211]	Marker 212 [T212]	Marker 213 [T213]	Marker 214 [T214]	Marker 215 [T215]	Marker 216 [T216]	Marker 217 [T217]	Marker 218 [T218]	Marker 219 [T219]	Marker 220 [T220]	Marker 221 [T221]	Marker 222 [T222]	Marker 223 [T223]	Marker 224 [T224]	Marker 225 [T225]	Marker 226 [T226]	Marker 227 [T227]	Marker 228 [T228]	Marker 229 [T229]	Marker 230 [T230]	Marker 231 [T231]	Marker 232 [T232]	Marker 233 [T233]	Marker 234 [T234]	Marker 235 [T235]	Marker 236 [T236]	Marker 237 [T237]	Marker 238 [T238]	Marker 239 [T239]	Marker 240 [T240]	Marker 241 [T241]	Marker 242 [T242]	Marker 243 [T243]	Marker 244 [T244]	Marker 245 [T245]	Marker 246 [T246]	Marker 247 [T247]	Marker 248 [T248]	Marker 249 [T249]	Marker 250 [T250]	Marker 251 [T251]	Marker 252 [T252]	Marker 253 [T253]	Marker 254 [T254]	Marker 255 [T255]	Marker 256 [T256]	Marker 257 [T257]	Marker 258 [T258]	Marker 259 [T259]	Marker 260 [T260]	Marker 261 [T261]	Marker 262 [T262]	Marker 263 [T263]	Marker 264 [T264]	Marker 265 [T265]	Marker 266 [T266]	Marker 267 [T267]	Marker 268 [T268]	Marker 269 [T269]	Marker 270 [T270]	Marker 271 [T271]	Marker 272 [T272]	Marker 273 [T273]	Marker 274 [T274]	Marker 275 [T275]	Marker 276 [T276]	Marker 277 [T277]	Marker 278 [T278]	Marker 279 [T279]	Marker 280 [T280]	Marker 281 [T281]	Marker 28
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802.11ax HE40-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 3.98 dBm •VBW 3 MHz SWT 20 ms 5.781800000 GHz OSW 20.400000000 MHz Temp 1 [T1] 0dBm Temp 2 [T1] 0dBm 5.775800000 GHz 5.814200000 GHz Center 5.795 GHz 10 MHz/ Span 100 MHz Date: 22.JUL.2025 14:26:08
802.11ac-VHT20-Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 5.41 dBm •VBW 3 MHz SWT 20 ms 5.750900000 GHz OSW 20.300000000 MHz Temp 1 [T1] 0dBm Temp 2 [T1] 0dBm 5.734800000 GHz 5.755300000 GHz Center 5.745 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 14:20:59
802.11ac-VHT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 5.08 dBm •VBW 3 MHz SWT 20 ms 5.780100000 GHz OSW 20.300000000 MHz Temp 1 [T1] 0dBm Temp 2 [T1] 0dBm 5.774800000 GHz 5.795100000 GHz Center 5.785 GHz 5 MHz/ Span 50 MHz Date: 22.JUL.2025 14:21:17

802.11ac-VHT20-High	 Date: 22.JUL.2025 14:21:33
802.11ac-VHT40-Low	 Date: 22.JUL.2025 14:24:54
802.11ac-VHT40-High	 Date: 22.JUL.2025 14:25:13

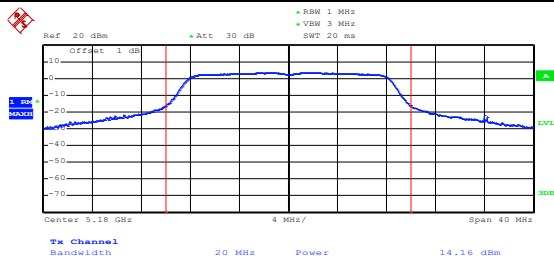
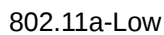
APPENDIX C

Maximum Conducted Output Power

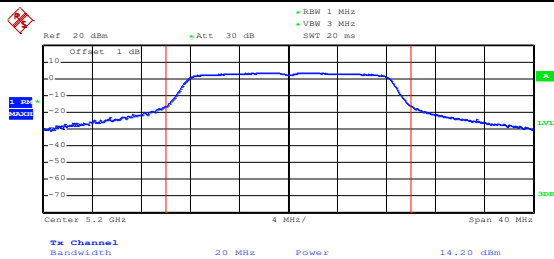
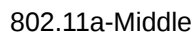
U-NII-1:5150-5250MHz			
Test mode	Frequency MHz	Output Power dBm	Limit dBm
802.11a	5180	14.16	23.98
	5200	14.20	23.98
	5240	14.79	23.98
802.11n-HT20	5180	14.23	23.98
	5200	14.21	23.98
	5240	14.74	23.98
802.11n-HT40	5190	14.02	23.98
	5230	14.48	23.98
802.11ax HE20	5180	13.95	23.98
	5200	14.05	23.98
	5240	14.61	23.98
802.11ax HE40	5190	13.97	23.98
	5230	14.36	23.98
802.11ac VHT20	5180	14.03	23.98
	5200	14.18	23.98
	5240	14.73	23.98
802.11ac VHT40	5190	14.00	23.98
	5230	14.44	23.98

U-NII-3: 5725-5850MHz			
Test mode	Frequency MHz	Output Power dBm	Limit dBm
802.11a	5745	14.17	30.00
	5785	14.01	30.00
	5825	13.72	30.00
802.11n-HT20	5745	14.06	30.00
	5785	13.94	30.00
	5825	13.76	30.00
802.11n-HT40	5755	14.14	30.00
	5795	13.91	30.00
802.11ax HE20	5745	13.99	30.00
	5785	13.92	30.00
	5825	13.64	30.00
802.11ax HE40	5755	13.97	30.00
	5795	13.78	30.00
802.11ac VHT20	5745	13.94	30.00
	5785	13.91	30.00
	5825	13.68	30.00
802.11ac VHT40	5755	14.11	30.00
	5795	13.89	30.00

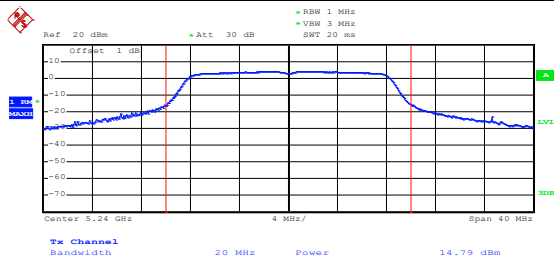
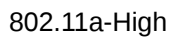
5150-5250MHz



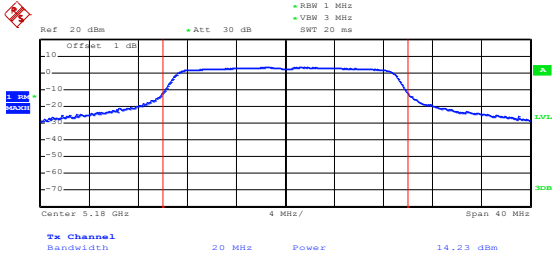
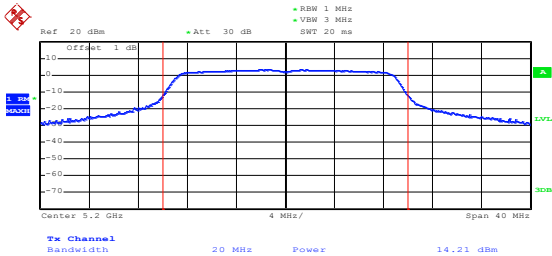
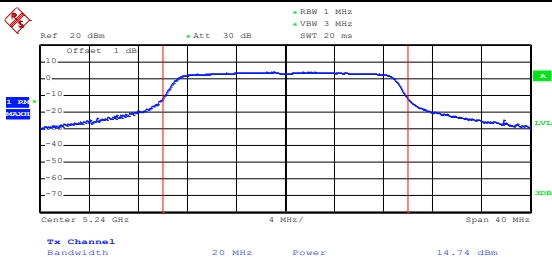
Date: 22.JUL.2025 09:29:04

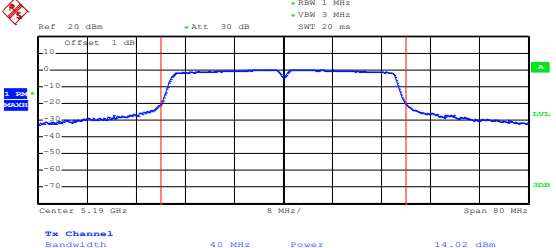
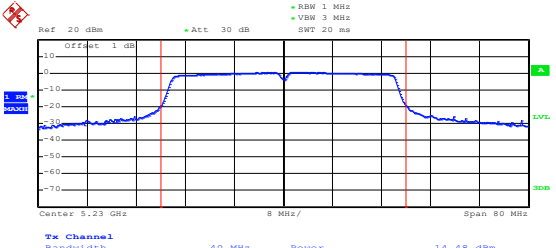
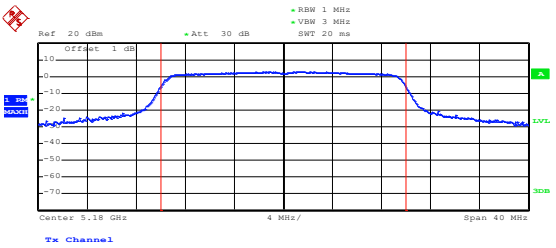


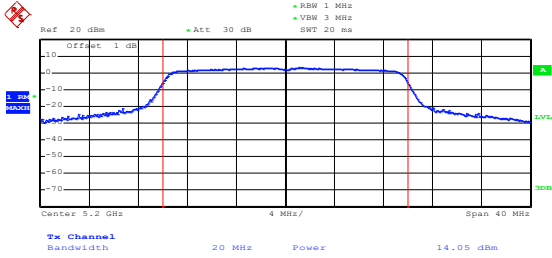
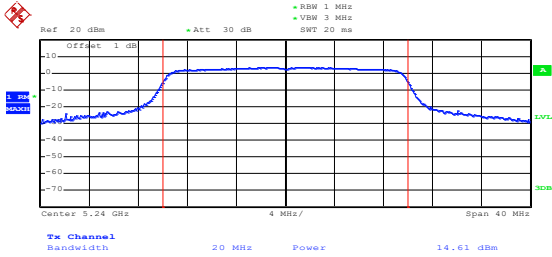
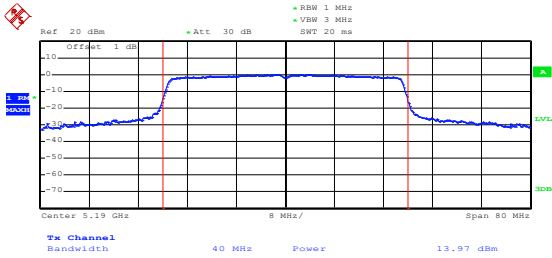
Date: 22.JUL.2025 09:29:32

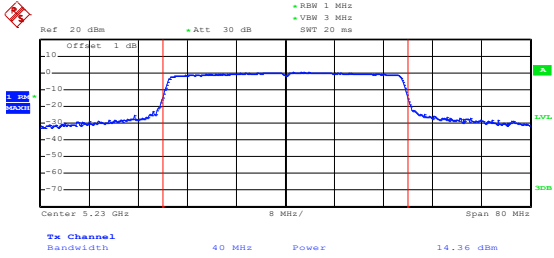
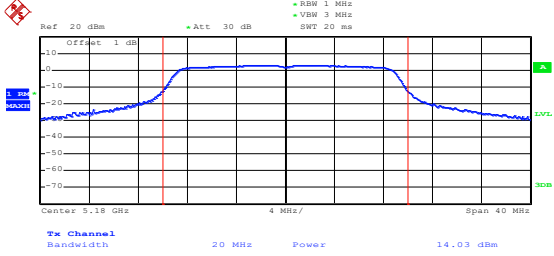
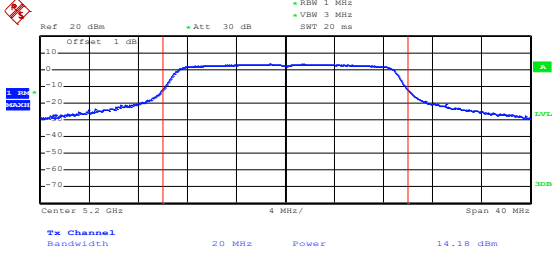


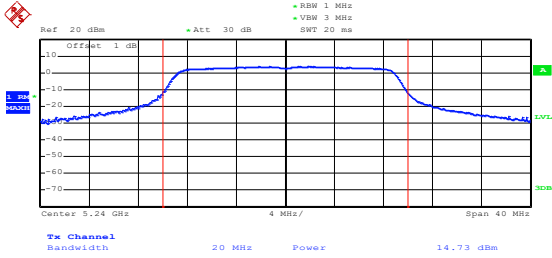
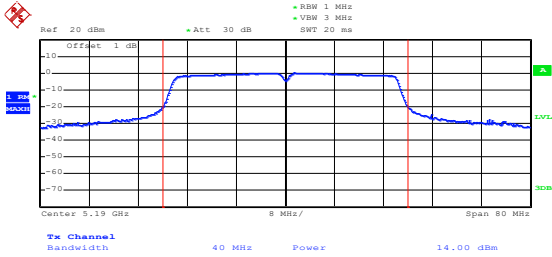
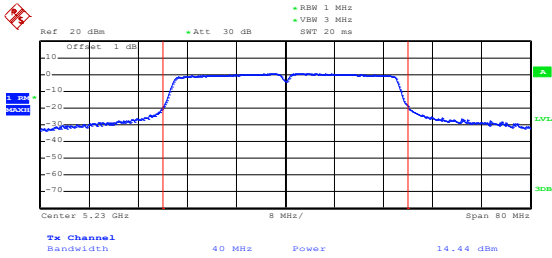
Date: 22.JUL.2025 09:29:55

802.11n-HT20-Low	 Date: 22.JUL.2025 09:31:45
802.11n-HT20-Middle	 Date: 22.JUL.2025 09:32:11
802.11n-HT20-High	 Date: 22.JUL.2025 09:32:30

802.11n-HT40-Low	 Date: 22.JUL.2025 09:37:52
802.11n-HT40-High	 Date: 22.JUL.2025 09:38:31
802.11ax HE20-Low	 Date: 22.JUL.2025 09:35:08

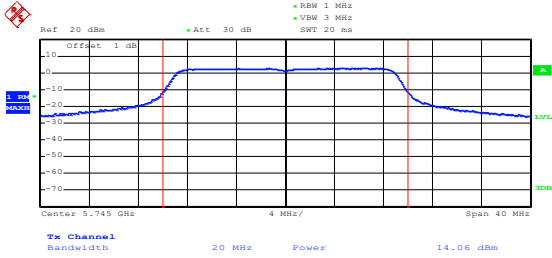
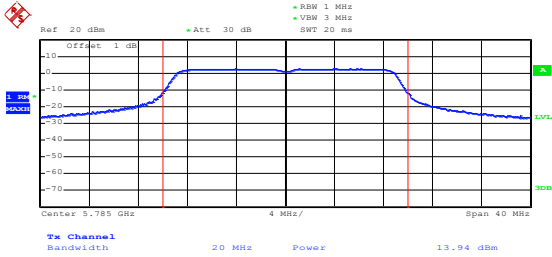
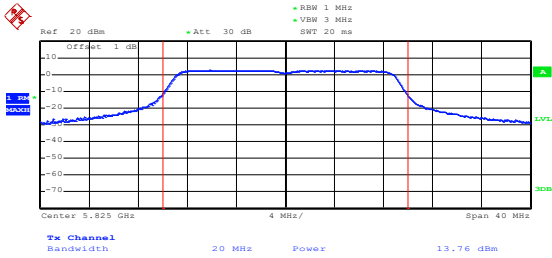
802.11ax HE20-Middle	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.2 GHz Span: 40 MHz Power: 14.05 dBm 1st Harmonic 2nd Harmonic Date: 22.JUL.2025 09:35:44
802.11ax HE20-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.24 GHz Span: 40 MHz Power: 14.61 dBm 1st Harmonic 2nd Harmonic Date: 22.JUL.2025 09:36:07
802.11ax HE40- Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.19 GHz Span: 80 MHz Power: 13.97 dBm 1st Harmonic 2nd Harmonic Date: 22.JUL.2025 09:40:31

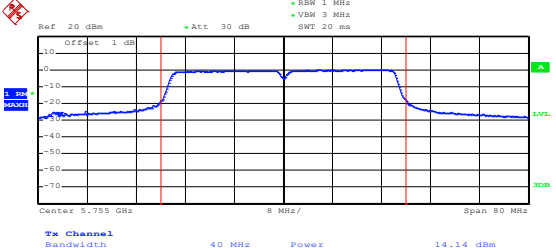
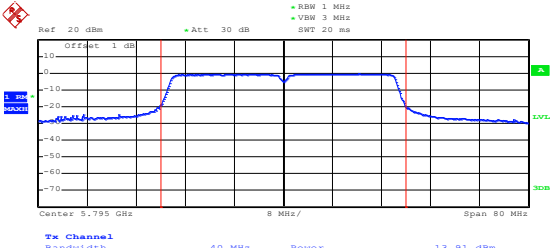
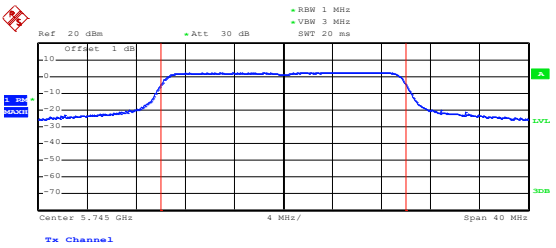
802.11ax HE40-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.23 GHz Span: 80 MHz Ts Channel Bandwidth: 40 MHz Power: 14.36 dBm Date: 22.JUL.2025 09:40:47
802.11ac-VHT20-Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.18 GHz Span: 40 MHz Ts Channel Bandwidth: 20 MHz Power: 14.03 dBm Date: 22.JUL.2025 09:33:28
802.11ac-VHT20-Middle	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.2 GHz Span: 40 MHz Ts Channel Bandwidth: 20 MHz Power: 14.18 dBm Date: 22.JUL.2025 09:33:59

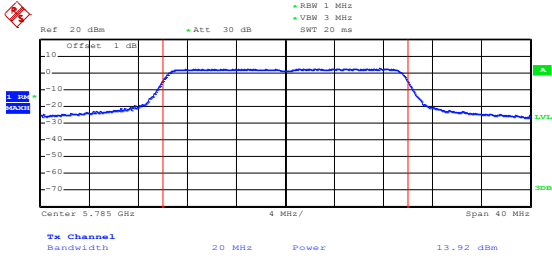
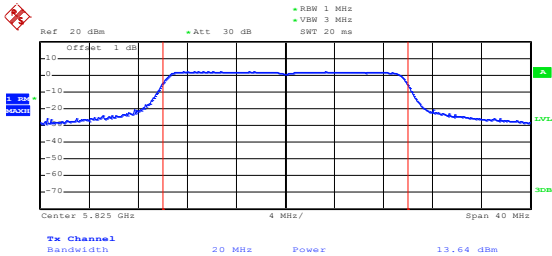
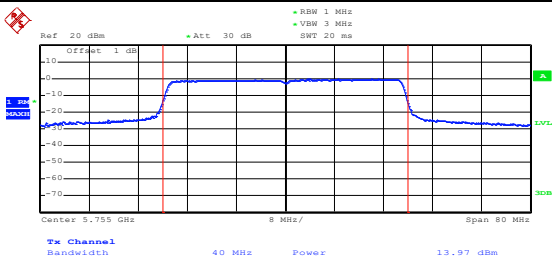
802.11ac-VHT20-High	 Date: 22.JUL.2025 09:34:25
802.11ac-VHT40-Low	 Date: 22.JUL.2025 09:39:27
802.11ac-VHT40-High	 Date: 22.JUL.2025 09:39:49

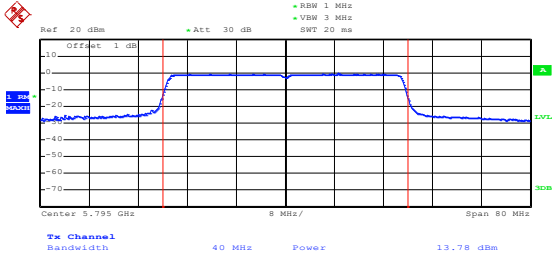
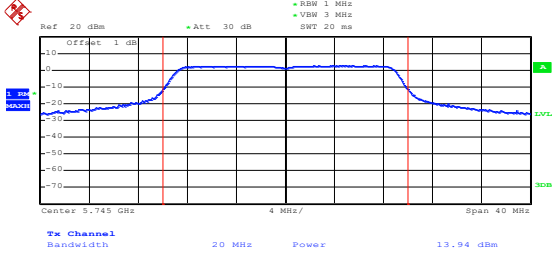
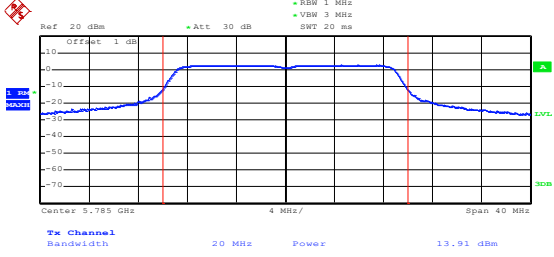
5725-5850MHz

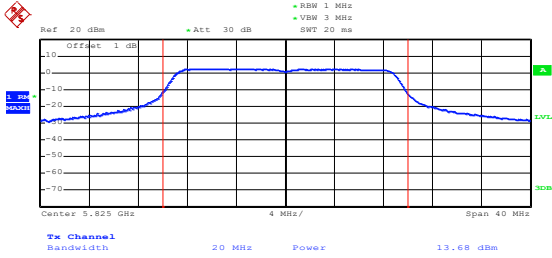
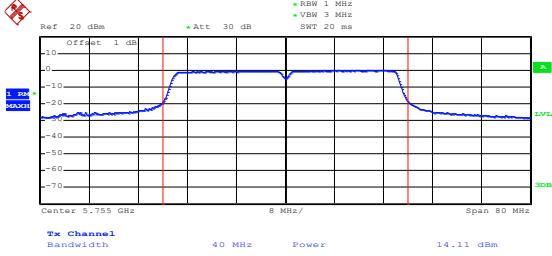
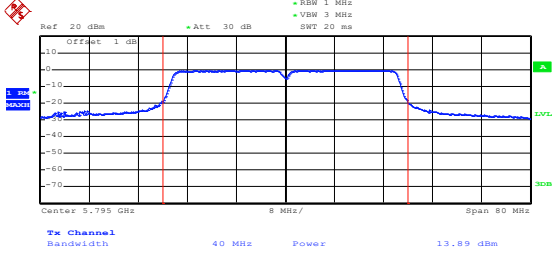
802.11a-Low	Date: 22.JUL.2025 11:43:32
802.11a-Middle	Date: 22.JUL.2025 11:43:51
802.11a-High	Date: 22.JUL.2025 11:44:08

802.11n-HT20-Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.745 GHz Span: 40 MHz Ts Channel Bandwidth: 20 MHz Power: 14.06 dBm Date: 22.JUL.2025 11:45:03
802.11n-HT20-Middle	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.785 GHz Span: 40 MHz Ts Channel Bandwidth: 20 MHz Power: 13.94 dBm Date: 22.JUL.2025 11:45:23
802.11n-HT20-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.825 GHz Span: 40 MHz Ts Channel Bandwidth: 20 MHz Power: 13.76 dBm Date: 22.JUL.2025 11:45:40

802.11n-HT40-Low	 Date: 22.JUL.2025 11:40:13
802.11n-HT40-High	 Date: 22.JUL.2025 11:40:29
802.11ax HE20-Low	 Date: 22.JUL.2025 11:47:28

802.11ax HE20-Middle	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.785 GHz Span: 40 MHz Ts Channel Bandwidth: 20 MHz Power: 13.92 dBm Date: 22.JUL.2025 11:47:47
802.11ax HE20-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.825 GHz Span: 40 MHz Ts Channel Bandwidth: 20 MHz Power: 13.64 dBm Date: 22.JUL.2025 11:48:15
802.11ax HE40- Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.755 GHz Span: 80 MHz Ts Channel Bandwidth: 40 MHz Power: 13.97 dBm Date: 22.JUL.2025 11:41:43

802.11ax HE40-High	 Date: 22.JUL.2025 11:42:01
802.11ac-VHT20-Low	 Date: 22.JUL.2025 11:46:15
802.11ac-VHT20-Middle	 Date: 22.JUL.2025 11:46:32

802.11ac-VHT20-High	 Date: 22.JUL.2025 11:46:54
802.11ac-VHT40-Low	 Date: 22.JUL.2025 11:38:56
802.11ac-VHT40-High	 Date: 22.JUL.2025 11:39:17

APPENDIX D

Frequency Stability

U-NII-1:5150-5250MHz worst case at 802.11a middle channel				
Voltage(%)	Power(VDC)	TEMP(°C)	Freq.Dev(Hz)	Deviation
100%	5.0	-30	492	0.095
100%		-20	506	0.097
100%		-10	507	0.098
100%		0	491	0.094
100%		+10	505	0.097
100%		+20	492	0.095
100%		+30	509	0.098
100%		+40	497	0.096
100%		+50	495	0.095
Low Battery power	4.50	+20	493	0.095
High Battery power	5.50	+20	492	0.095

U-NII-1:5725-5850MHz worst case at 802.11a middle channel				
Voltage(%)	Power(VDC)	TEMP(°C)	Freq.Dev(Hz)	Deviation
100%	5.0	-30	506	0.087
100%		-20	504	0.087
100%		-10	503	0.087
100%		0	501	0.087
100%		+10	505	0.087
100%		+20	509	0.088
100%		+30	506	0.087
100%		+40	493	0.085
100%		+50	492	0.085
Low Battery power	4.50	+20	501	0.087
High Battery power	5.50	+20	494	0.085

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

***** END OF REPORT *****