



FCC PART 15.407
ISED RSS-248, ISSUE 3, OCTOBER 2024

TEST REPORT

For

Cisco Systems, Inc.

FCC: 125 West Tasman Drive
San Jose, CA 95134-1706
IC: 170 W. Tasman Drive, Building P & 7
San Jose, CA 95134, United States of America (Excluding The State of Alaska)

FCC ID: LDKIW9165E
IC: 2461A-IW9165E

Report Type: Class II Permissive Change Report	Product Type: Outdoor Access Point
Prepared By: Libass Thiaw RF Test Engineer	
Report Number: R2406125-407 Rev. B	
Report Date: 2026-01-27	
Reviewed By: Christian McCaig RF Lead Engineer	
Bay Area Compliance Laboratories Corp. 1274 Anvilwood Avenue, Sunnyvale, CA 94089, USA Tel: (408) 732-9162 Fax: (408) 732-9164	



Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by A2LA*, NIST, or any agency of the Federal Government.

* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk “*” (Rev. 0)

TABLE OF CONTENTS

1	GENERAL DESCRIPTION.....	4
1.1	PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	4
1.2	MECHANICAL DESCRIPTION OF EUT	4
1.3	OBJECTIVE.....	4
1.4	RELATED SUBMITTAL(S)/GRANT(S)	5
1.5	TEST METHODOLOGY	5
1.6	MEASUREMENT UNCERTAINTY	5
1.7	TEST FACILITY REGISTRATIONS	5
1.8	TEST FACILITY ACCREDITATIONS.....	6
2	SYSTEM TEST CONFIGURATION.....	10
2.1	JUSTIFICATION.....	10
2.2	EUT EXERCISE SOFTWARE.....	10
2.3	EQUIPMENT MODIFICATION.....	10
2.4	LOCAL SUPPORT EQUIPMENT	10
2.5	REMOTE SUPPORT EQUIPMENT.....	11
2.6	INTERFACE PORTS AND CABLING	11
3	SUMMARY OF TEST RESULTS.....	12
4	FCC §15.35(B), §15.205, §15.209, §15.407(B) & ISEDC RSS-248 §4.6, RSS-GEN §8.9, §8.10 –RADIATED SPURIOUS EMISSIONS.....	13
4.1	APPLICABLE STANDARD	13
4.2	TEST SETUP	17
4.3	TEST PROCEDURE	17
4.4	CORRECTED AMPLITUDE AND MARGIN CALCULATION	18
4.5	TEST SETUP BLOCK DIAGRAM.....	19
4.6	TEST EQUIPMENT LIST AND DETAILS	20
4.7	TEST ENVIRONMENTAL CONDITIONS.....	22
4.8	SUMMARY OF TEST RESULTS.....	22
4.9	RADIATED EMISSIONS TEST RESULT DATA	23
5	APPENDIX A (NORMATIVE) – EUT TEST SETUP PHOTOGRAPHS.....	76
6	APPENDIX B (NORMATIVE) – EUT EXTERNAL PHOTOGRAPHS.....	77
7	APPENDIX C (NORMATIVE) – EUT INTERNAL PHOTOGRAPHS.....	78
8	APPENDIX D (NORMATIVE) – A2LA ELECTRICAL TESTING CERTIFICATE	79

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R2406125-407	Class II Permissive Change Report	2024-10-25
1	R2406125-407 Rev. A	Adding additional 2 UNII bands	2025-12-03
2	R2406125-407 Rev. B	Performed Additional Test on 7095MHz	2026-01-27

1 General Description

1.1 Product Description for Equipment Under Test (EUT)

This test report is prepared on behalf of *Cisco Systems, Inc.*, and their product model: IW9165E, FCC ID: LDKIW9165E, IC: 2461A-IW9165E, the “EUT” as referred to in this report. The EUT is designed to add wireless connectivity to moving vehicles and machines. The EUT is a BLE, 4.9 GHz, 5 GHz Wi-Fi dual band, 6E Wi-Fi, and GNSS outdoor access point.

1.2 Mechanical Description of EUT

The UUT measures approximately 150mm (L) x 110mm (W) x 40mm (H) and weighs approximately 0.8 kg.

The data gathered was from a production sample provided by Cisco Systems, Inc. with S/N: FOC2638BL35

1.3 Objective

This report is prepared on behalf of *Cisco Systems, Inc.* in accordance with FCC CFR47 §15.407 and ISEDC RSS-248 ISSUE 3, October 2024. This report is prepared for the purpose of adding 6GHz capabilities.

The objective is to determine compliance with FCC Part 15.407 and ISEDC RSS-248 for Radiated Spurious Emissions.

In order to determine compliance, the manufacturer or a contracted laboratory makes measurements and takes the necessary steps to ensure that the equipment complies with the appropriate technical standards.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product may be which result in lowering the immunity should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing and/or I/O cable changes, etc.).

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

All measurements contained in this report were conducted in accordance with ANSI C63.10-2020 + COR.1-2023 + ERRATA TO C63.10A-2024, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz, and FCC KDB 789033 D02 General UNII Test Procedure New Rules v02r01.

1.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Parameter	Measurement uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.57 dB
Power Spectral Density, conducted	±1.48dB
Unwanted Emissions, conducted	±1.57dB
All emissions, radiated	±4.0 dB
AC power line Conducted Emission	±2.0 dB
Temperature	±2 ° C
Humidity	±5 %
DC and low frequency voltages	±1.0 %
Time	±2 %
Duty Cycle	±3 %

1.7 Test Facility Registrations

BACLs test facilities that are used to perform Radiated and Conducted Emissions tests are currently recognized by the Federal Communications Commission as Accredited with NIST Designation Number US1129.

BACL's test facilities that are used to perform Radiated and Conducted Emissions tests are currently registered with Industry Canada under Registration Numbers: 3062A.

BACL is a Chinese Taipei Bureau of Standards Metrology and Inspection (BSMI) validated Conformity Assessment Body (CAB), under Appendix B, Phase I Procedures of the APEC Mutual Recognition Arrangement (MRA). BACL's BSMI Lab Code Number is: SL2-IN-E-1002R

BACL's test facilities that are used to perform AC Line Conducted Emissions, Telecommunications Line Conducted Emissions, Radiated Emissions from 30 MHz to 1 GHz, and Radiated Emissions from 1 GHz to 6 GHz are currently recognized as Accredited in accordance with the Voluntary Control Council for Interference [VCCI] Article 15 procedures under Registration Number A-0428.

1.8 Test Facility Accreditations

Bay Area Compliance Laboratories Corp. (BACL) is:

A- An independent, 3rd-Party, Commercial Test Laboratory accredited to ISO/IEC 17025:2017 by A2LA (Test Laboratory Accreditation Certificate Number 3297.02), in the fields of: Electromagnetic Compatibility and Telecommunications. Unless noted by an Asterisk (*) in the Compliance Matrix (See Section 3 of this Test Report), BACL's ISO/IEC 17025:2017 Scope of Accreditation includes all of the Test Method Standards and/or the Product Family Standards detailed in this Test Report..

BACL's ISO/IEC 17025:2017 Scope of Accreditation includes a comprehensive suite of EMC Emissions, EMC Immunity, Radio/Wireless, RF Exposure, Safety, and Wireline Telecommunications test methods applicable to a wide range of product categories. These product categories include, but are not limited to: Central Office Telecommunications Equipment [including NEBS – Network Equipment Building Systems], Information Technology Equipment (ITE); Telecommunications Terminal Equipment (TTE); Medical Electrical Equipment; Industrial, Scientific and Medical Test Equipment; Professional Audio and Video Equipment; Industrial Equipment, Scientific Instruments and Laboratory Apparatus; Cable Distribution Systems, Railway Equipment, Marine Equipment, and Energy Efficient Lighting. Additionally, BACL offers comprehensive test capabilities for both Unlicensed and Licensed Wireless and RF Devices, per the requirements of the FCC (USA), ISED Canada (Canada), the EU/EEA/EFTA Nations (per the ETSI Standards applicable under the Radio Equipment Directive), Singapore, MIC (Japan), South Korea, Vietnam, and Taiwan ROC.

B- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.03) to certify

- For the USA (Federal Communications Commission):

- 1- All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
- 2- All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
- 3- All Telephone Terminal Equipment within FCC Scope C.

- For the Canada (Innovation, Science and Economic Development Canada):

- 1 All Scope 1-Licence-Exempt Radio Frequency Devices;
- 2 All Scope 2-Licensed Personal Mobile Radio Services;
- 3 All Scope 3-Licensed General Mobile & Fixed Radio Services;
- 4 All Scope 4-Licensed Maritime & Aviation Radio Services;
- 5 All Scope 5-Licensed Fixed Microwave Radio Services
- 6 All Broadcasting Equipment Technical Standards (BETS) in the Category I Equipment Standards List.
7. RSS-HAC Radio Scope 6 Hearing Aid Compatibility and Volume Control

- For Singapore (Info-Comm Media Development Authority (IMDA)):

- 1 All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment – Table 1 of IDA MRA Recognition Scheme: 2011, Annex 2 IMDA Phase I
2. All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2011, Annex 2 IMDA Phase II

- For the Hong Kong Special Administrative Region & (Office of the Communications Authority-OFCA) – APEC Tel MRA- Phase I and Phase II:

- 1 Radio Equipment, per KHCA 10XX-series Specifications; HKCA 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1010, 1015, 1016, 1019, 1020, 1022, 1026, 1033, 1034, 1035, 1036, 1037, 1039, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1052, 1053, 1054, 1056, 1057, 1061, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1080, 1081

- 2 GMDSS Marine Radio Equipment, per HKCA 12XX-series Specifications; HKCA 1218, 1223, 1224, 1225, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1277, 1281, 1282, 1283
- 3 Fixed Network Equipment, per HKCA 20XX-series Specifications; HKCA 2001, 2011, 2014, 2015, 2017, 2026, 2027, 2028, 2029, 2030, 2031

- For Japan:

- 1 MIC Telecommunication Business Law (Terminal Equipment):
 - All Scope A1 - Terminal Equipment for the Purpose of Calls;
 - All Scope A2 - Other Terminal Equipment
- 2 Radio Law (Radio Equipment):
 - All Scope B1 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
 - All Scope B2 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
 - All Scope B3 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law

C- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.01) to certify Products to USA's Environmental Protection Agency (EPA) ENERGY STAR Product Specifications for:

- 1 Appliances:
 - for Clothes Washers (ver. 8.1)
 - for Residential Dishwashers (ver. 6.0)
 - for Residential Refrigerators and/or Freezers (ver. 5.0)
- 2 Commercial Food Service Equipment:
 - for Commercial Dishwashers (ver. 3.0)
 - for Commercial Ice Machines (ver. 3.0)
- 3 Data Center Equipment:
 - for Large Network Equipment (ver. 1.1)
- 4 Electronics and Office Equipment:
 - for Audio/Video Equipment (ver. 3.0)
 - for Computers (ver. 8.0)
 - for Data Center Storage (ver. 2.1)
 - for Displays (ver. 8.0)
 - for Enterprise Servers (ver. 4.0)
 - for Imaging Equipment (ver. 3.1)
 - for Set-top Boxes & Cable Boxes (ver. 5.1)
 - for Small Network Equipment (ver. 1.0)
 - for Telephony (ver. 3.0)
 - for Televisions (ver. 9.0), Title 10 Chapter II CFR Part 430 Subpart B –Appendix BB, Title 10 Chapter II CFR Part 430 Subpart B –Appendix DD
- 3 Lighting and Fans
 - for Decorative Light Strings (ver. 1.5)
 - for Downlights (ver. 1.0)
 - for Lamps (Light Bulbs)(ver. 2.1)
 - for Luminaires (including sub-components) (ver. 2.2)
 - for Residential Ceiling Fans (ver. 4.0)
 - for Residential Ventilating Fans (ver. 4.1)

4 Other

- for Residential Ceiling Fans (ver. 4.0)
- for Electric Vehicle Supply Equipment (ver. 1.2)(Electric Vehicle Supply Equipment Final Test Method for DC-output EVSE Rev March 2021)
- for Water Coolers (ver. 3.0)
- for Smart Home Energy Management Systems (ver. 1.1)

D- A NIST Designated Phase-I and Phase-II Conformity Assessment Body (CAB) for the following economies and regulatory authorities under the terms of the stated MRAs/Treaties:

1. For the USA (Federal Communications Commission), as a Telecommunications Certification Body (TCB):
 - o All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
 - o All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
 - o All Telephone Terminal Equipment within FCC Scope C.
2. Canada (ISED Canada) Foreign Certification Body – FCB – APEC Tel MRA -Phase I & Phase II:
 - o Phase I Designation Letter
 - o Phase II ISED Canada recognition as a Product Certification Body for unlicensed wireless devices, licensed radios, radars, etc.:
3. For Singapore (InfoComm Media Development Authority (IMDA)) APEC Tel MRA -Phase I & Phase II:
 - o All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment – Table 1 of IDA MRA Recognition Scheme: 2011, Annex 2 IMDA Phase I
 - o All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2011, Annex 2 IMDA Phase II
4. For the Hong Kong Special Administrative Region & (Office of the Communications Authority – OFCA) – APEC Tel MRA -Phase I & Phase II:
 - o NIST Phase I Scope Recognition Letter from OFCA for BACL –US0057
 - o OFCA Phase II Designation Letter
5. For Japan (Ministry of Communications):
 - o NIST Japan Recognition
 - o MIC Telecommunication Business Law (Terminal Equipment):
 1. All Scope A1 – Terminal Equipment for the Purpose of Calls;
 2. All Scope A2 – Other Terminal Equipment
 - o Radio Law (Radio Equipment):
 1. All Scope B1 – Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
 2. All Scope B2 – Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
 3. All Scope B3 – Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law
 - o Japan VCCI – Voluntary Control Council for Interference US-Japan Telecom Treaty (VCCI Side Letter)
 1. VCCI Certificate
 - o Japan Registered Certification Body
 1. RCB Recognition Letter

6. European Union:
 - Radio Equipment Directive [RED] 2014/53/EU US-EU EMC & Telecom MRA CAB (NB)
 - EMC Directive [EMCD] 2014/30/EU US-EU EMC & Telecom MRA CAB (NB):
 7. Australia ACMA (Australian Communication and Media Authority) – APEC Tel MRA -Phase I:
 - Phase I Designation Letter
 8. Chinese Taipei (Republic of China – Taiwan):
 - NCC (National Communications Commission) APEC Tel MRA -Phase I
 9. Republic of Korea (Ministry of Communications – Radio Research Laboratory) APEC Tel MRA -Phase I:
 - NIST Phase I Scope Update Notification Letter from Korea for BACL
 10. Vietnam APEC Tel MRA -Phase I (page 13)
 - Vietnam (MIC) NIST Phase I Scope
 11. Indonesia SDPPI (page 6)
 - Phase I Listing
 12. Israel Phase I
 - NIST Phase I Scope Update Recognition Letter from Israel for BACL –US0057
 13. UK Radio and EMC NIST Designation Letters
 - UK website: <https://www.gov.uk/uk-market-conformity-assessment-bodies/bay-area-compliance-laboratories-corp-bacl>
 1. Electromagnetic Compatibility Regulations (SI 2016/1091)
https://assets.publishing.service.gov.uk/media/5fe1e344e90e07452fce4e5a/AB_1313_BACL_UK EMC_Regs_NIST_Designation_Extended.pdf
 2. Radio Equipment Regulations 2017 (SI 2017/1206)
https://assets.publishing.service.gov.uk/media/5fe1e351e90e074525bf7be6/AB_1313_BACL_UK_Radio_Regs_NIST_Designation_Extended.pdf
 14. IFT Mexico Phase I
 - NIST Phase I New Recognition Letter from Mexico for BACL – US0057
 15. Taiwan (BSMI) Phase 1 Designation Letter and designation form.
 - NIST Phase I Scope Update Designation Letter to BSMI for BACL – US0057
- NIST Phase I Scope Update Designation Form to BSMI for BACL – US0057

2 System Test Configuration

2.1 Justification

The EUT was configured for testing according to ANSIC63.10-2020 + COR.1-2023 + ERRATA TO C63.10A-2024 and FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

The EUT was tested in a testing mode to represent worst-case results during the final qualification test.

2.2 EUT Exercise Software

The test software used was Tera Term. The software is compliant with the standard requirements being tested against.

Modulation	Frequency (MHz)	Power Setting Radio 1	Power Setting Radio 2
802.11ax20	5955	40	34
	6195	40	34
	6415	40	34
	6435	40	34
	6475	40	34
	6515	40	34
	6535	40	34
	6695	40	34
	6855	40	34
	6895	40	34
	6995	40	34
	7095	40	34

Data rates used:
802.11ax20: m0h1

2.3 Equipment Modification

No modifications were made to the EUT during testing.

2.4 Local Support Equipment

Manufacturer	Description	Model
Dell	Laptop	Latitude E6410

2.5 Remote Support Equipment

Manufacturer	Description	Model
LiteON	Power Supply	PA-1600-1C

2.6 Interface Ports and Cabling

Cable Description	Length (m)	From	To
USB A to RJ45	< 1 m	EUT	Laptop
Power Supply	< 1 m	EUT	Power

3 Summary of Test Results

FCC & ISED Rules	Description of Test	Results
FCC §2.1053, §15.35(b), §15.205, §15.209, 15.407(b) ISED RSS-248 §4.6 ISED RSS-Gen §8.9, §8.10	Radiated Spurious Emissions	Compliant

BACL is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report. Information provided by the customer, e.g., antenna gain, can affect the validity of results.

4 FCC §15.35(b), §15.205, §15.209, §15.407(b) & ISEDC RSS-248 §4.6, RSS-Gen §8.9, §8.10 –Radiated Spurious Emissions

4.1 Applicable Standard

As per FCC §15.35(b): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz.

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 – 0.110	16.42 – 16.423	960 – 1240	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	1300 – 1427	5.35 – 5.46
2.1735 – 2.1905	25.5 – 25.67	1435 – 1626.5	7.25 – 7.75
4.125 – 4.128	37.5 – 38.25	1645.5 – 1646.5	8.025 – 8.5
4.17725 – 4.17775	73 – 74.6	1660 – 1710	9.0 – 9.2
4.20725 – 4.20775	74.8 – 75.2	1718.8 – 1722.2	9.3 – 9.5
6.215 – 6.218	108 – 121.94	2200 – 2300	10.6 – 12.7
6.26775 – 6.26825	123 – 138	2310 – 2390	13.25 – 13.4
6.31175 – 6.31225	149.9 – 150.05	2483.5 – 2500	14.47 – 14.5
8.291 – 8.294	156.52475 – 156.52525	2690 – 2900	15.35 – 16.2
8.362 – 8.366	156.7 – 156.9	3260 – 3267	17.7 – 21.4
8.37625 – 8.38675	162.0125 – 167.17	3.332 – 3.339	22.01 – 23.12
8.41425 – 8.41475	167.72 – 173.2	3.3458 – 3.358	23.6 – 24.0
12.29 – 12.293	240 – 285	3.600 – 4.400	31.2 – 31.8
12.51975 – 12.52025	322 – 335.4		36.43 – 36.5
12.57675 – 12.57725	399.9 – 410		Above 38.6
13.36 – 13.41	608 – 614		

As per FCC §15.209: The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

Frequency (MHz)	Field Strength (micro volts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

Note 1: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

As per FCC §15.407 (b),

- 6) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.
- 7) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB
- 8) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- 9) Unwanted emissions below 1 GHz 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.
- 10) The provisions of §15.205 apply to intentional radiators operating under this section.

According to ISERC RSS-248 §4.6.2, devices shall comply with the following:

- a) Any emissions outside of the 5925-7125 MHz frequency band shall not exceed -27 dBm/MHz e.i.r.p. spectral density
- b) The e.i.r.p. spectral density of unwanted emissions falling into the 5925-7125 MHz frequency band shall be attenuated below the reference power spectral density by:
 - i. 20 dB at 1 MHz away from the channel edges
 - ii. a value, linearly interpolated in a dB scale, between 20 dB and 28 dB at frequencies between 1 MHz outside of channel edges and 1 channel bandwidth away from the operating channel centre, respectively
 - iii. 28 dB at 1 channel bandwidth away from the operating channel centre
 - iv. a value, linearly interpolated in a dB scale, between 28 dB and 40 dB at frequencies between 1 channel bandwidth away from the operating channel centre and 1.5 times the channel bandwidth away from the operating channel centre, respectively
 - v. 40 dB at 1.5 times the channel bandwidth away from the operating channel centre
 - vi. a minimum of 40 dB at frequencies that are further away than 1.5 times the channel bandwidth from the operating channel centre

As per ISERC RSS-Gen §8.9,

Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 5 – General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$ at 3 m)
30 – 88	100
88 – 216	150
216 – 960	200
Above 960	500

Table 6 – General field strength limits at frequencies below 30 MHz

Frequency	Field Strength (micro volts/meter)	Measurement Distance (meters)
9 – 490 kHz ^{Note 1}	$6.37/F$ (F in kHz)	300
490 – 1705 kHz	$63.7/F$ (F in kHz)	30
1.705 – 30 MHz	0.08	30

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

As per ISED RSS-Gen §8.10(c),

Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

Table 7 – Restricted frequency bands^{Note 1}

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

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

4.2 Test Setup

The radiated emissions tests were performed in the 5-meter Chamber, using the setup in accordance with ANSI C63.10-2020 + COR.1-2023 + ERRATA TO C63.10A-2024. The specification used was the FCC §15.407 and ISEDC RSS-248 limits.

The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle when necessary.

4.3 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter or 1.5 meter above ground plane, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

The spectrum analyzer or receiver is set as:

Below 1000 MHz:

RBW = 100 kHz / VBW = 300 kHz / Sweep = Auto

Above 1000 MHz:

- (1) Peak: RBW = 1MHz / VBW = 3MHz / Sweep = 100ms
- (2) Average: RBW = 1MHz / VBW = 10Hz or 1/T / Sweep = Auto

4.4 Corrected Amplitude and Margin Calculation

For emissions below 1 GHz,

The Corrected Amplitude (CA) is calculated by adding the Correction Factor to the S.A. Reading. The basic equation is as follows:

$$CA = \text{S.A. Reading} + \text{Correction Factor}$$

For example, a corrected amplitude of 40.3 dBuV/m = S.A. Reading (32.5 dBuV) + Correction Factor (7.8 dB/m)

The Correction Factor is calculated by adding the Antenna Factor (AF), the Cable Loss (CL), the Attenuator Factor (Atten) and subtracting the Amplifier Gain (Ga) together. This calculation is done in the measurement software, and reported in the test result section. The basic equation is as follows:

$$\text{Correction Factor} = AF + CL + \text{Atten} - Ga$$

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corrected Amplitude} - \text{Limit}$$

For emission above 1 GHz,

The Corrected Amplitude (CA) is calculated by adding the Antenna Factor (AF), the Cable Loss (CL), the Attenuator Factor (Atten) and subtracting the Amplifier Gain (Ga) to indicated Amplitude (Ai) reading. The basic equation is as follows:

$$CA = Ai + AF + CL + \text{Atten} - Ga$$

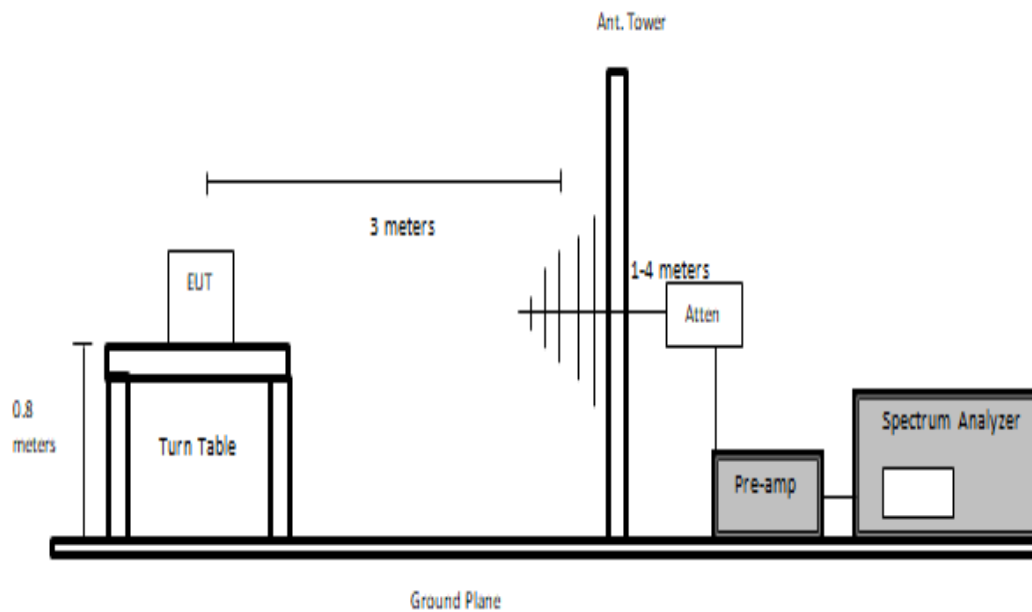
For example, a corrected amplitude of 40.3 dBuV/m = Indicated Reading (32.5 dBuV) + Antenna Factor (+23.5dB) + Cable Loss (3.7 dB) + Attenuator (10 dB) - Amplifier Gain (29.4 dB)

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit. The equation for margin calculation is as follows:

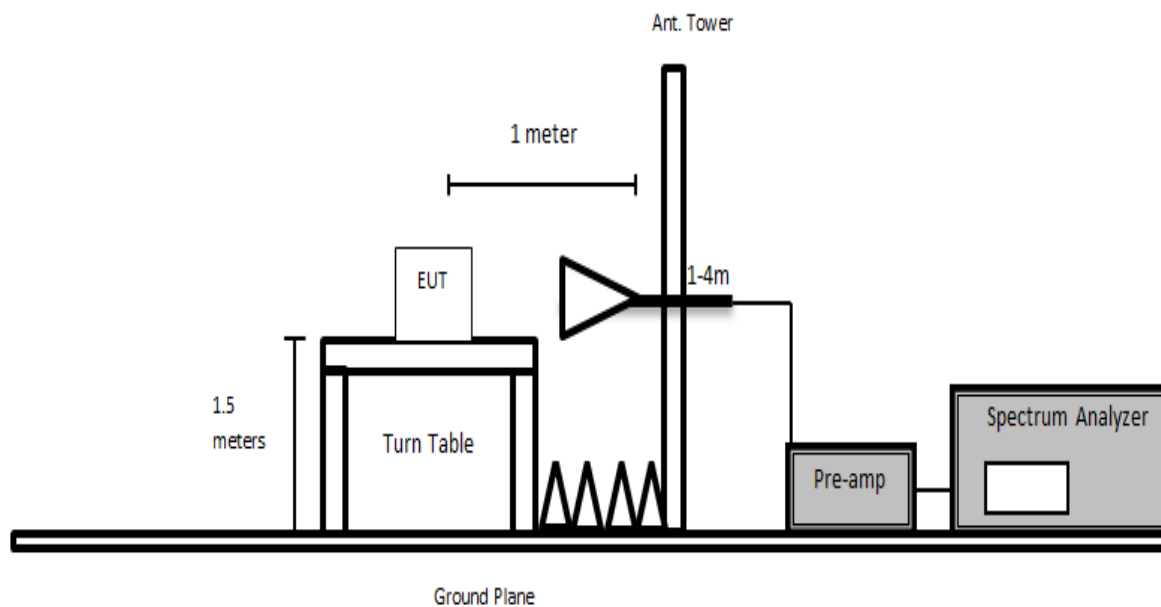
$$\text{Margin} = \text{Corrected Amplitude} - \text{Limit}$$

4.5 Test Setup Block Diagram

Below 1 GHz



Above 1 GHz



4.6 Test Equipment List and Details

BACL No.	Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
310	Rhode & Schwarz	EMI Test Receiver	ESCI 1166.5950.03	100338	2024-05-29	1 year
424	Agilent	Spectrum Analyzer	E4440A	US45303156	2024-03-06	1 year
624	Agilent	Spectrum Analyzer	E4446A	MY48250238	2024-06-14	1 year
327	Sunol Science Corp	System Controller	SC110V	122303-1	N/R	N/A
316	Sonoma Instruments	Preamplifier 10 kHz - 2.5 GHz	317	260406	2024-02-27	6 months
658	HP/Agilent	Pre-Amplifier	8449B OPT HO2	3008A01103	2024-06-18	6 months ¹
827	AH Systems	Preamplifier	PAM 1840 VH	170	2024-05-05	6 months
321	Sunol Sciences	Biconilog Antenna	JB3	A020106-2; 1504	2023-12-18	2 years
1192	ETS Lindgren	Horn Antenna	3117	00218973	2022-09-29	2 years
91	ETS Lindgren	Horn Antenna	ARH-4223-02	10555-02	2022-03-08	2 years
92	ETS Lindgren	Horn Antenna	ARH-2823-02	10555-01	2022-03-17	2 years
1186	Pasternack	Coaxial Cable, RG214	PE3062-1050CM	1	2023-10-03	1 year
1248	Pasternack	RG214 COAX Cable	PE3062	-	2023-10-04	1 year
1249	Time Microwave	LMR-400 Cable Dc-3 GHz	AE13684	2k80612-56fts	2023-09-26	1 year
1353	RFMW	2.92mm 10ft RF Cable DC to 40 GHz	P1CA-29M29M-F150-120	NA	2024-01-24	6 months
1329	Pasternack	2.92mm short coaxial cable	PE360-12	NA	2024-05-06	6 months
1346	RFMW	2.92mm 10ft RF cable	KMSE-160SAW-240.0-KSME	NA	2024-05-03	6 Months
1362	Marvelous Microwave Inc	SMA Notch Filter, 5925MHz - 7125MHz	5925.7125.S1	D30002N	2024-04-14	1 year
1245	-	6dB Attenuator	PE7390-6	01182018A	2022-11-22	2 year
1246	HP	RF Limiter	11867A	01734	2024-04-09	1 year

Note¹: This equipment was only used for 1-18GHz spurious emissions testing performed on 2024-06-19

Note: The equipment in the table above was used for testing performed on 2024-06-17 to 2024-06-20.

Statement of Traceability: **BACL Corp.** attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 "A2LA Policy on Metrological Traceability".

BACL No	Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
327	Sunol Sciences	System Controller	SC110V	122303-1	N/R	N/R
1075	Sunol Sciences	Boresight Tower	TLT3	050119-7	N/R	N/R
1388	Sunol Sciences	Flush Mount Turntable	FM	112005-2	N/R	N/R
1427	Keysight Technologies	PXE EMI Receiver	N9048B	MY59500006	2026-01-14	1 year
316	Sonoma Instruments	Preamplifier 10 kHz - 2.5 GHz	317	260406	2025-08-18	6 months
321	Sunol Sciences	Biconilog Antenna	JB3	A020106-2; 1504	2025-12-16	2 years
1245	Pasternack	6dB Attenuator	PE7390-6	01182018A	2025-12-16	2 years
1246	Hewlet Packard	RF Limiter	11867A	01734	2025-09-09	6 months
1248	Pasternack	RG214 COAX Cable	PE3062	-	2025-10-03	6 months
1210	Pasternack	N-type Coax Cable, 50ft RG213	PE3496-0600	2103161	2025-11-12	6 months
1192	ETS Lindgren	Horn Antenna	3117	00218973	2024-10-23	2 years
1295	Carlisle	10m Ultra Low Loss Coaxial Cable	UFB142A-1-3937-200200	64639890912-001	2025-10-16	6 months
90	Wisewave	Horn Antenna 18-26.5GHz	ARH-4223-02	10555-01	2025-05-06	2 years
92	Wisewave	Horn Antenna	ARH-2823-02	10555-01	2024-06-26	2 years
1449	BACL	Preamplifier 100MHz-18GHz	BACL1313-A100M18G	4052472	2025-08-18	6 months
1451	BACL	Preamplifier 18-40GHz	BACL-1313-A1840	4052432	2025-08-18	6 months
1545	Megaphase	K-type coax cable	TM40-K1K3-12	20869601 001	2025-08-18	6 months
1546	Megaphase	SMA coax cable	TM26-S1S3-12	20869602 001	2025-08-18	6 months

Note: The equipment in the table above was used for testing performed on 2026-01-26.

Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 "A2LA Policy on Metrological Traceability".

4.7 Test Environmental Conditions

Temperature:	22-23° C
Relative Humidity:	46-48 %
ATM Pressure:	101.1-101.9 kPa

The testing was performed by Libass Thiaw from 2024-06-17 to 2024-06-20 in 5m chamber 3.

Temperature:	19° C
Relative Humidity:	48 %
ATM Pressure:	101.4 kPa

The testing was performed by Michael Papa on 2026-01-26 in 5m chamber 3.

4.8 Summary of Test Results

According to the data hereinafter, the EUT complied with the FCC Part 15.407 and ISED RSS-248 standards' radiated emissions limits, and had the worst margin of:

Worst Case – Mode: Transmitting			
Margin (dB)	Frequency (MHz)	Polarization (Horizontal/Vertical)	Configuration
-0.10	17872.5	Vertical	802.11ax20, 5955MHz

Please refer to the tables and plots in the next section for detailed test results.

4.9 Radiated Emissions Test Result Data

Note: The EUT is not transmitting at below 30 MHz, thus 9 kHz to 30 MHz was not evaluated for Spurious Emissions.

Note: peak detector was used in comparison to QP limit in some cases to show worst-case compliance. In such cases, it is clearly shown that no emissions appear above the noise floor, thus position is independent of any max readings noticed.

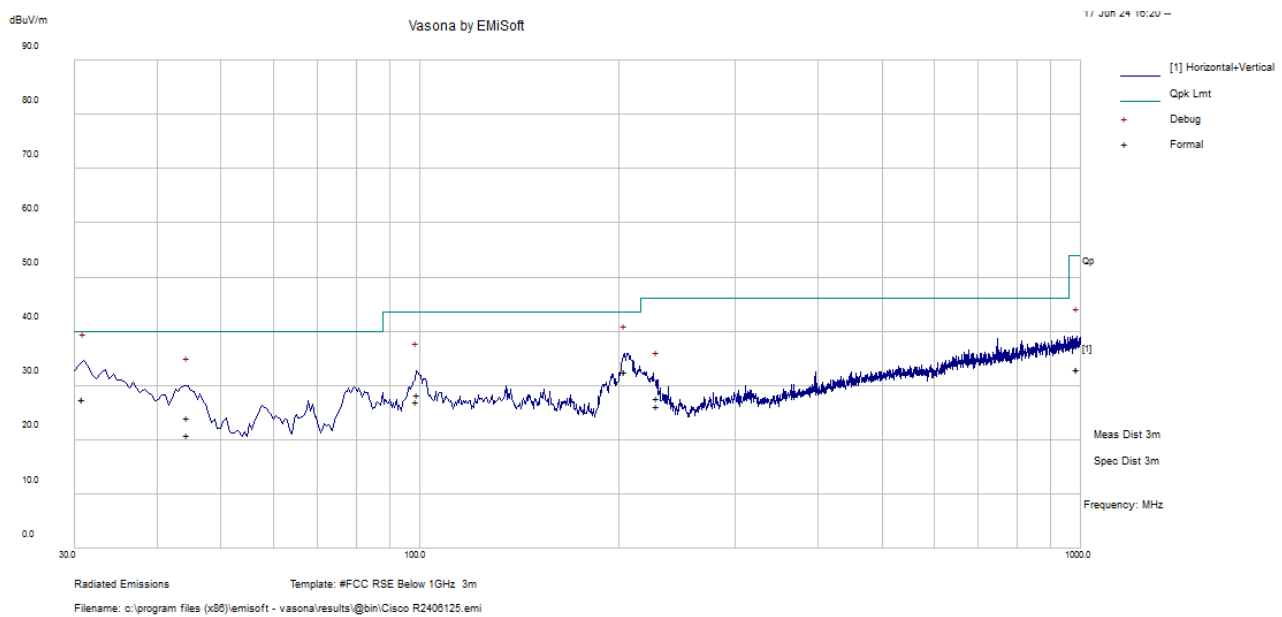
Note: Note: 802.11ax20 was measured and evaluated to be the worst case configuration per its modulation family.

Note: Testing was performed with output ports terminated into a load and both radios transmitted at max power through both paths respectively

Note: As per FCC Part 15.407 and ISDEC RSS-248 §4.6, emissions outside the restricted bands shall not exceed -27dBm/MHz. Per ANSI 63.10-2020 Section 12.7.2: $E[dB\mu V/m] = EIRP[dBM] + 95.2$, for $d = 3meters$. Thus Limit $[dB\mu V/m @ 3m] = -27[dBm/MHz] + 95.3 = 68.3[dB\mu V/m @ 3m]$

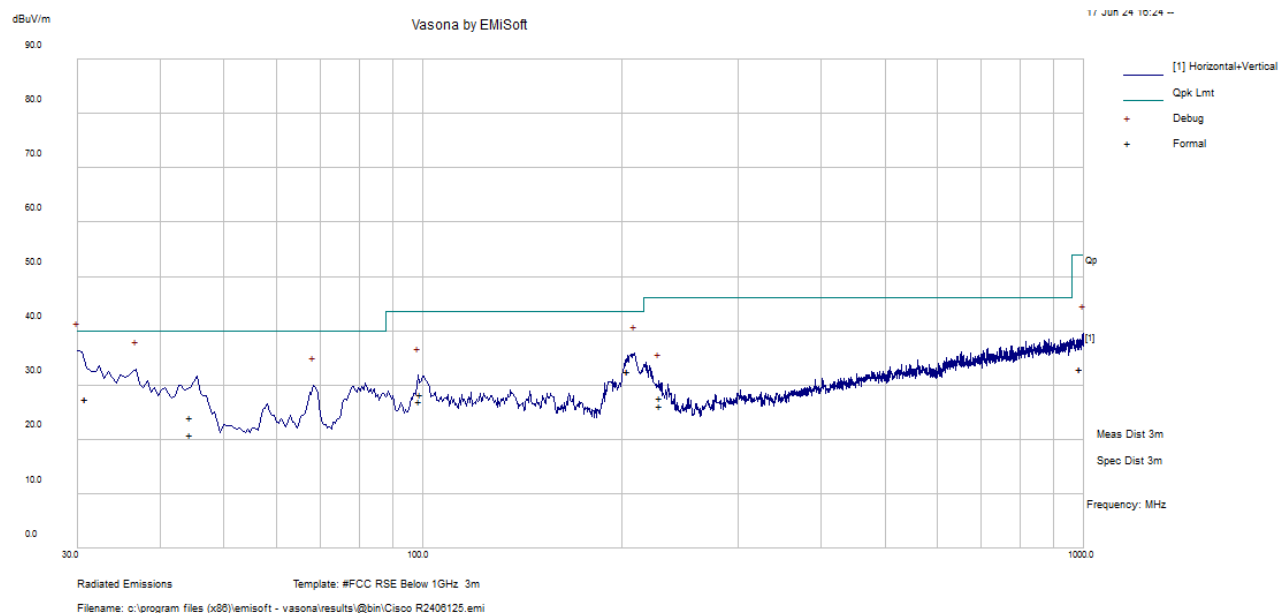
1) 30 MHz – 1 GHz, Measured at 3 meters

802.11ax20, 5955MHz



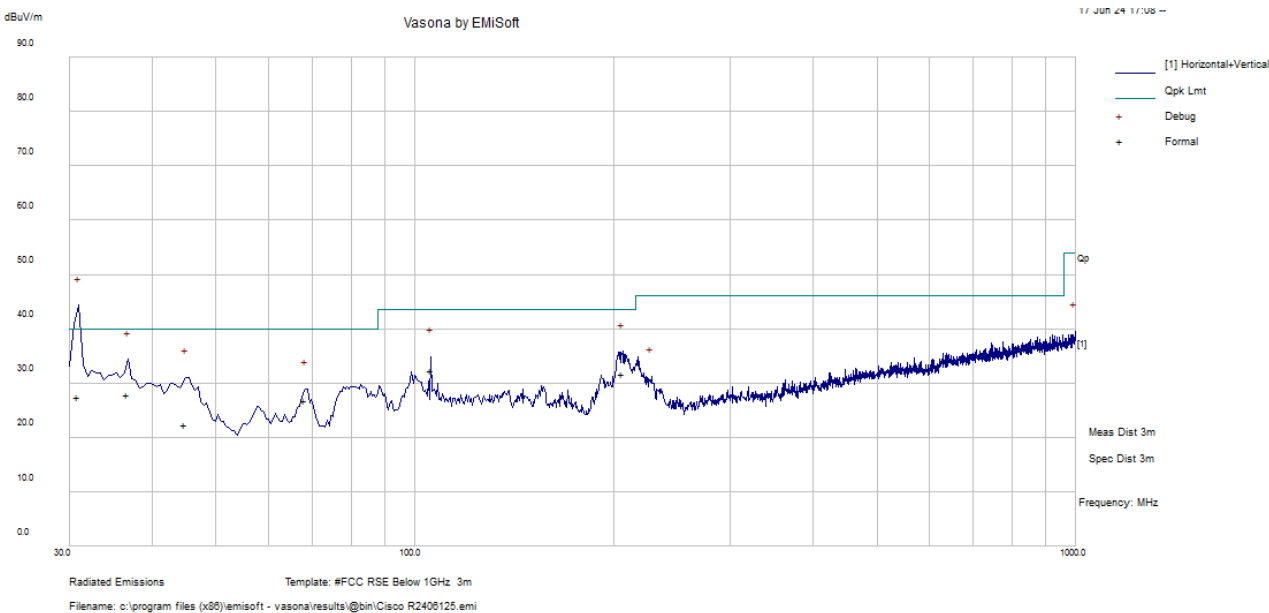
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBuV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBuV/m)	Margin (dB)	Detector
30.9195	29.1	-1.65	27.45	151	V	227	40	-12.55	QP
203.9903	41.84	-9.21	32.63	106	H	248	40	-10.87	QP
44.42425	31.8	-10.89	20.91	177	V	237	40	-19.09	QP
98.921	37.51	-10.43	27.08	123	V	118	43.5	-16.42	QP
987.8268	27.64	5.25	32.89	290	V	124	54	-21.11	QP
228.5463	37.03	-9.39	27.64	117	H	236	46	-18.36	QP

802.11ax20, 6195MHz



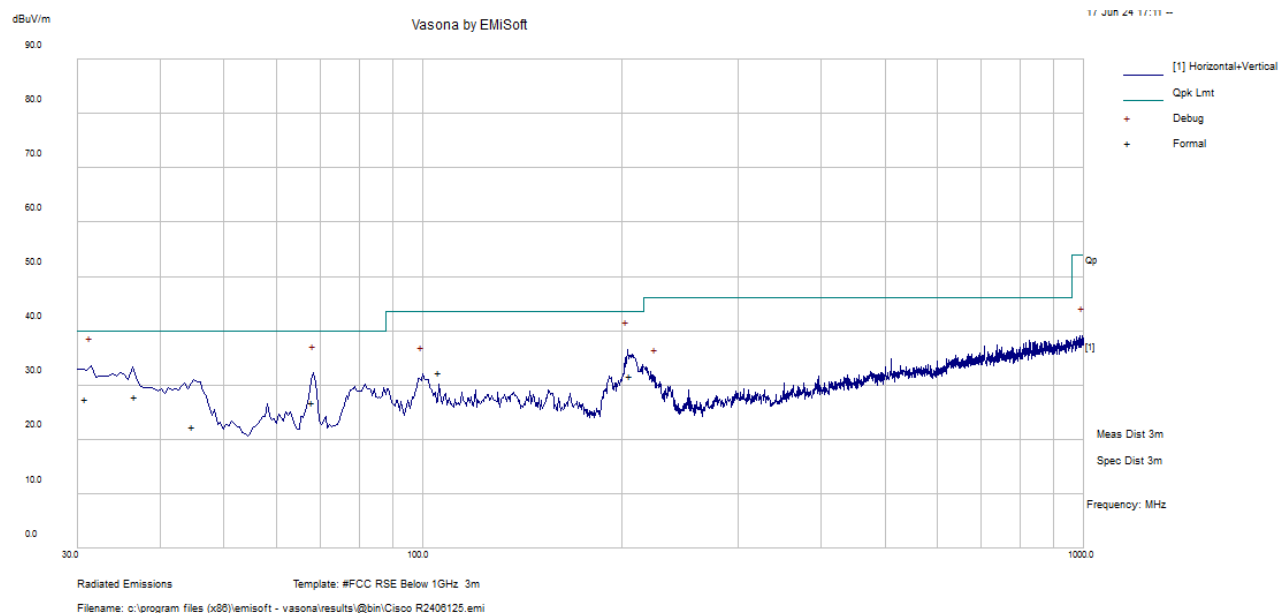
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
30	37.27	-0.93	36.34	100	V	0	40	-3.66	Peak
36.79	38.51	-5.53	32.98	100	V	0	40	-7.02	Peak
208.965	45.74	-9.91	35.83	100	H	0	43.5	-7.67	Peak
68.315	43.11	-13.18	29.93	100	V	0	40	-10.07	Peak
98.385	42.35	-10.55	31.8	100	V	0	43.5	-11.7	Peak
1000	34.13	5.48	39.61	100	H	0	54	-14.39	Peak

802.11ax20, 6415MHz



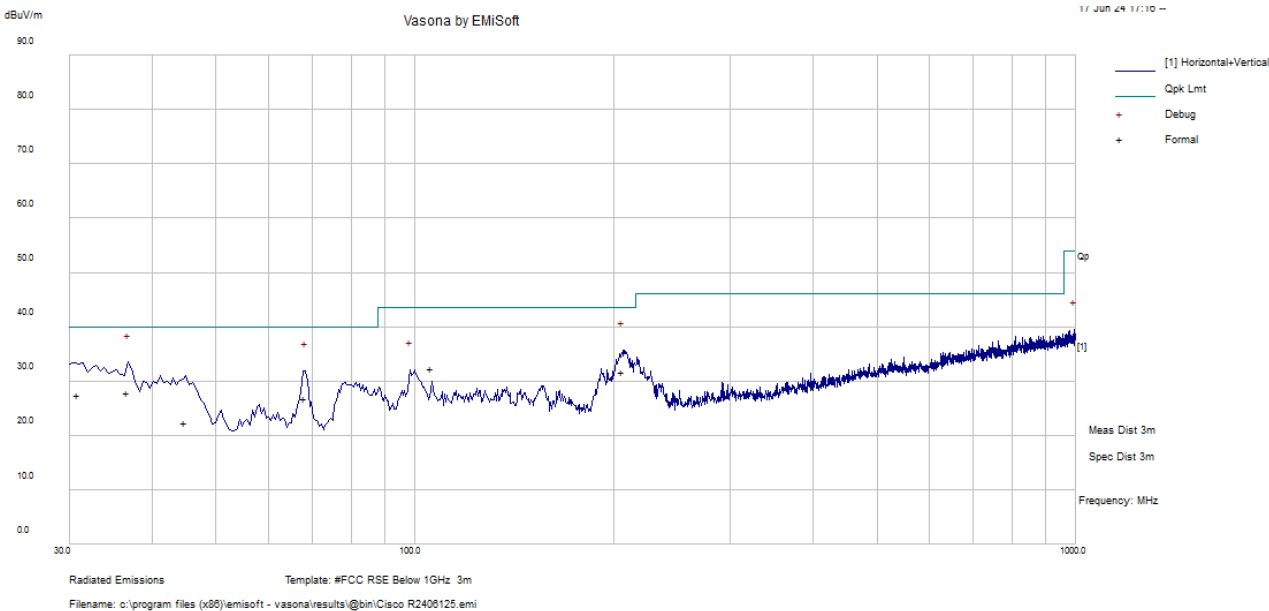
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
30.94775	29.08	-1.66	27.42	236	V	339	40	-12.58	QP
36.70125	33.38	-5.47	27.91	101	V	61	40	-12.09	QP
206.0965	41.28	-9.6	31.68	130	H	124	43.5	-11.82	QP
105.692	41.03	-8.77	32.26	294	V	282	43.5	-11.24	QP
44.8005	33.56	-11.13	22.43	144	V	214	40	-17.57	QP
68.066	39.98	-13.2	26.78	110	V	109	40	-13.22	QP

802.11ax20, 6435MHz



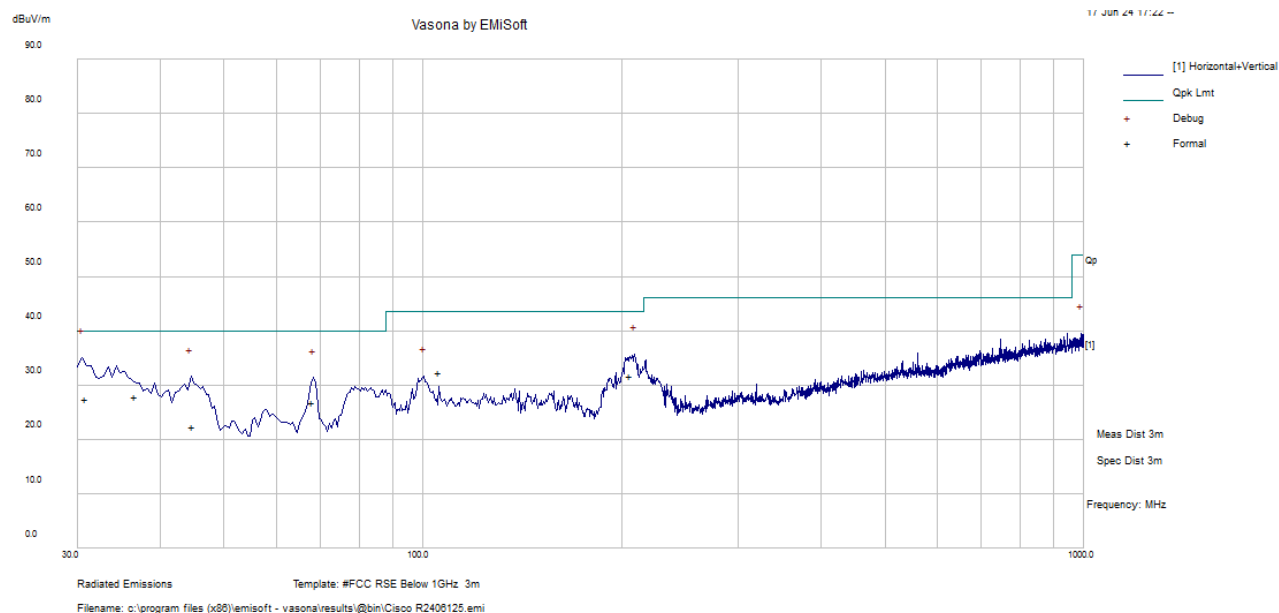
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
31.455	35.71	-2.07	33.64	100	H	0	40	-6.36	Peak
203.63	45.65	-9.11	36.54	100	H	0	43.5	-6.96	Peak
68.315	45.36	-13.18	32.18	100	V	0	40	-7.82	Peak
99.84	42.21	-10.19	32.02	100	V	0	43.5	-11.48	Peak
224.97	40.96	-9.57	31.39	100	H	0	46	-14.61	Peak
996.12	33.68	5.41	39.09	100	H	0	54	-14.91	Peak

802.11ax20, 6475MHz



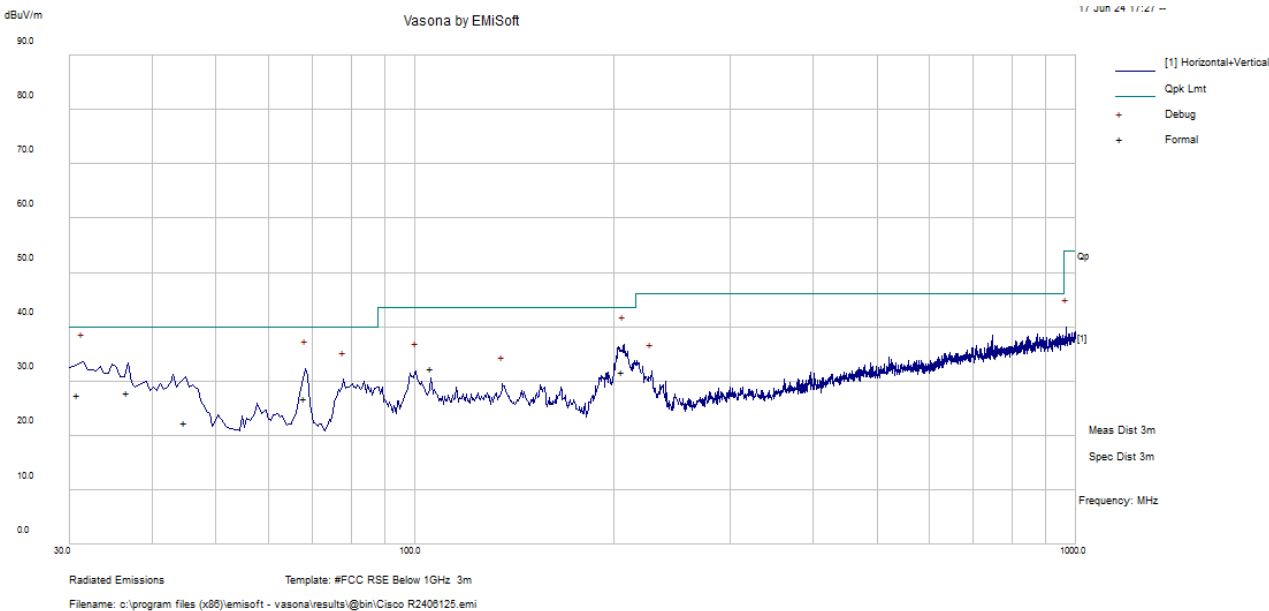
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
36.79	39.01	-5.52	33.49	100	V	0	40	-6.51	Peak
206.055	45.37	-9.61	35.76	100	H	0	43.5	-7.74	Peak
68.315	45.02	-13.19	31.83	100	V	0	40	-8.17	Peak
98.385	42.67	-10.55	32.12	100	V	0	43.5	-11.38	Peak
995.635	34.08	5.41	39.49	100	H	0	54	-14.51	Peak

802.11ax20, 6515MHz



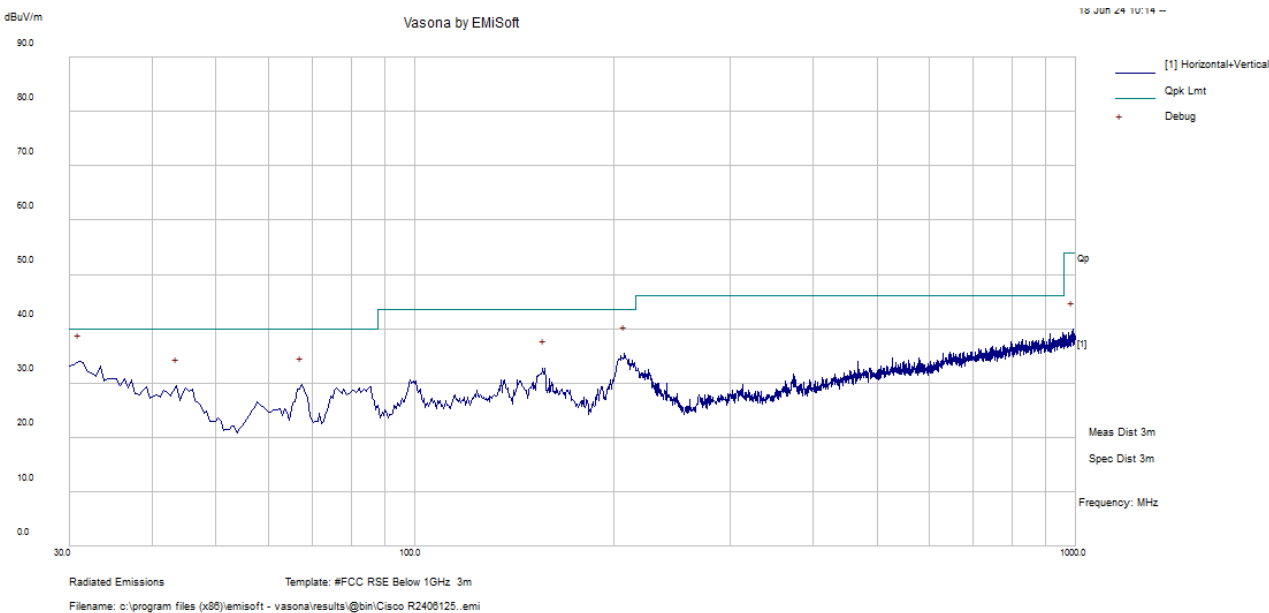
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
30.485	36.34	-1.31	35.03	100	V	0	40	-4.97	Peak
208.965	45.62	-9.91	35.71	100	H	0	43.5	-7.79	Peak
44.55	42.52	-10.97	31.55	100	V	0	40	-8.45	Peak
68.315	44.53	-13.18	31.35	100	V	0	40	-8.65	Peak
100.325	41.75	-10.07	31.68	100	V	0	43.5	-11.82	Peak
991.755	34.18	5.33	39.51	100	H	0	54	-14.49	Peak

802.11ax20, 6535MHz



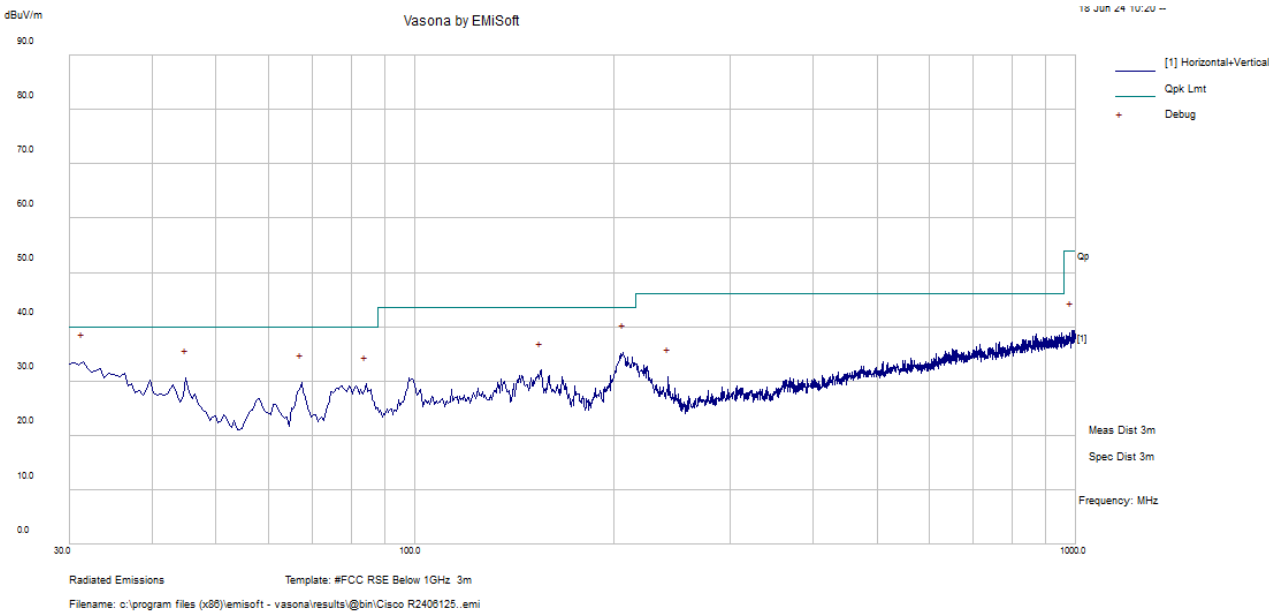
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBuV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBuV/m)	Margin (dB)	Detector
31.455	35.59	-2.07	33.52	100	H	0	40	-6.48	Peak
207.025	46.43	-9.7	36.73	100	H	0	43.5	-6.77	Peak
68.315	45.45	-13.19	32.26	100	V	0	40	-7.74	Peak
78.015	44.2	-13.93	30.27	100	H	0	40	-9.73	Peak
100.325	41.88	-10.06	31.82	100	V	0	43.5	-11.68	Peak
966.535	35.14	4.86	40	100	H	0	54	-14	Peak

802.11ax20, 6695MHz



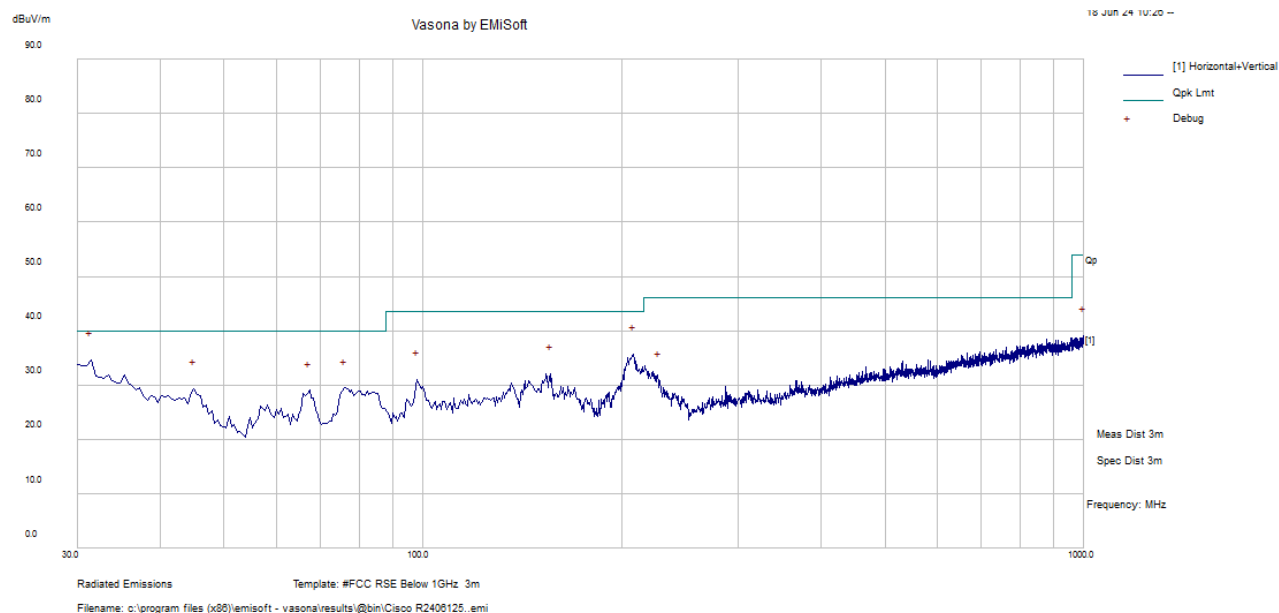
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
30.97	35.58	-1.68	33.9	100	V	0	40	-6.1	Peak
207.51	45.1	-9.76	35.34	100	H	0	43.5	-8.16	Peak
67.345	42.87	-13.25	29.62	100	V	0	40	-10.38	Peak
43.58	39.7	-10.3	29.4	100	V	0	40	-10.6	Peak
157.07	41.06	-8.29	32.77	100	H	0	43.5	-10.73	Peak
988.845	34.58	5.28	39.86	100	V	0	54	-14.14	Peak

802.11ax20, 6855MHz



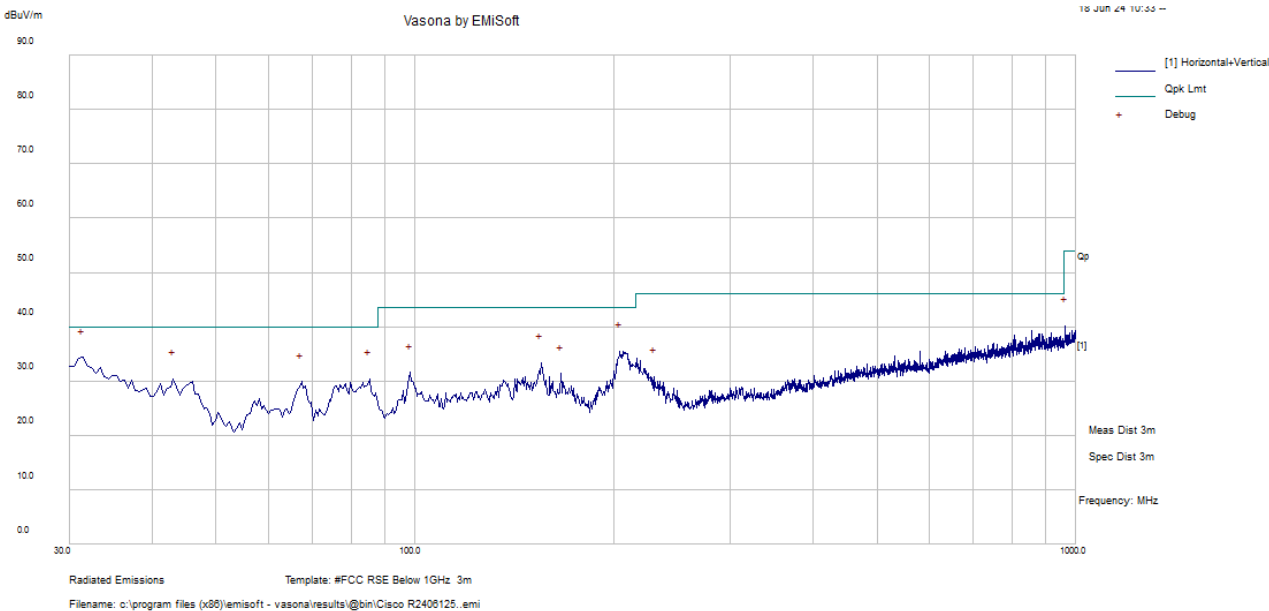
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
31.455	35.6	-2.07	33.53	100	V	0	40	-6.47	Peak
206.54	44.95	-9.66	35.29	100	H	0	43.5	-8.21	Peak
45.035	41.93	-11.28	30.65	100	V	0	40	-9.35	Peak
67.345	43.06	-13.25	29.81	100	V	0	40	-10.19	Peak
84.32	43.47	-14.01	29.46	100	V	0	40	-10.54	Peak
155.13	40.23	-8.27	31.96	100	H	0	43.5	-11.54	Peak

802.11ax20, 6895MHz



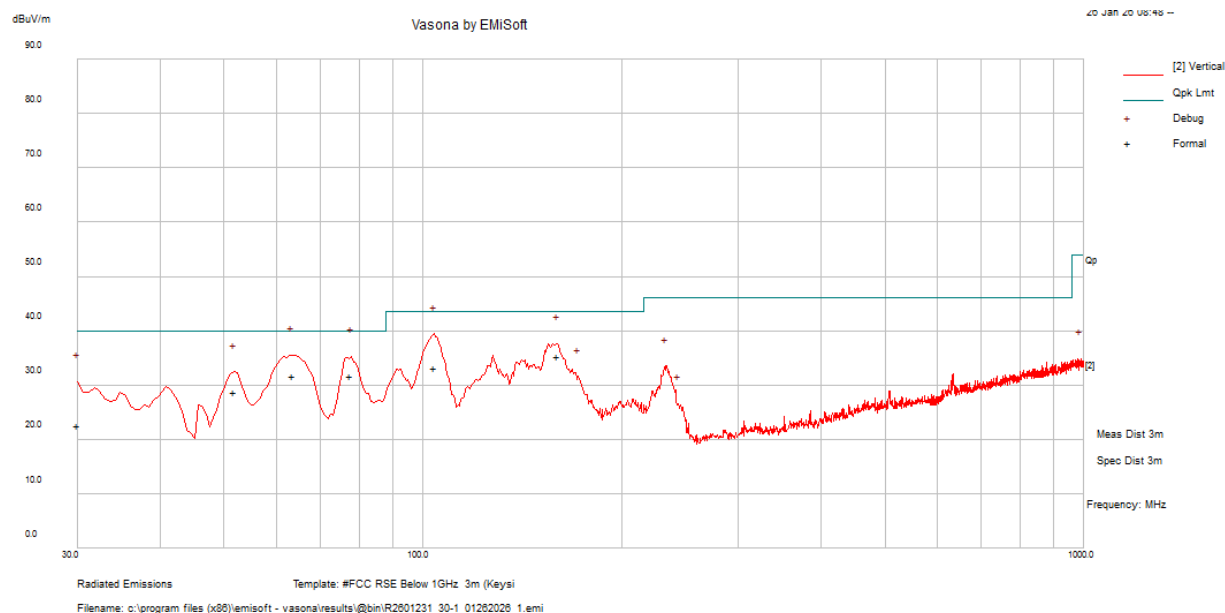
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
31.455	36.69	-2.07	34.62	100	H	0	40	-5.38	Peak
208.48	45.63	-9.86	35.77	100	H	0	43.5	-7.73	Peak
76.075	42.83	-13.43	29.4	100	H	0	40	-10.6	Peak
45.035	40.63	-11.28	29.35	100	V	0	40	-10.65	Peak
67.345	42.28	-13.24	29.04	100	V	0	40	-10.96	Peak
156.1	40.41	-8.28	32.13	100	H	0	43.5	-11.37	Peak

802.11ax20, 6995MHz



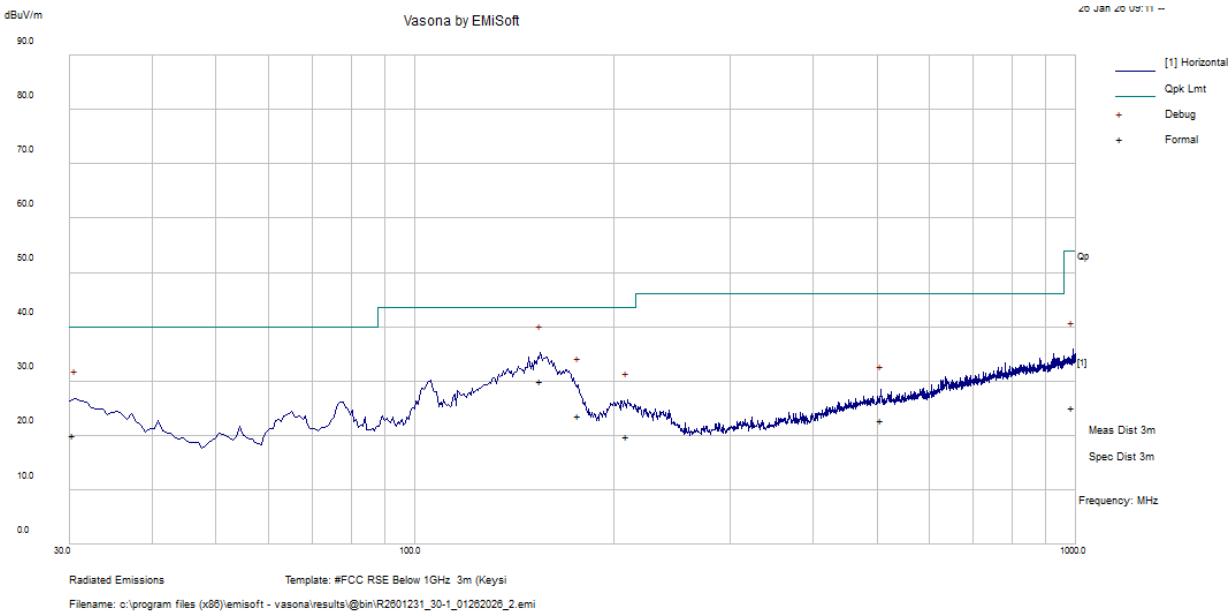
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
31.455	36.4	-2.06	34.34	100	H	0	40	-5.66	Peak
204.115	44.72	-9.24	35.48	100	H	0	43.5	-8.02	Peak
85.29	44.38	-13.94	30.44	100	V	0	40	-9.56	Peak
43.095	40.31	-9.94	30.37	100	V	0	40	-9.63	Peak
67.345	43.09	-13.25	29.84	100	V	0	40	-10.16	Peak
155.13	41.61	-8.27	33.34	100	H	0	43.5	-10.16	Peak

802.11ax20, 7095MHz, Vertical



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
103.9625	57.9	-18.49	39.41	100	0	43.5	-4.09	Peak
63.34375	58.35	-22.91	35.44	100	0	40	-4.56	Peak
77.89375	58.17	-22.96	35.21	100	0	40	-4.79	Peak
159.7375	55.3	-17.65	37.65	100	0	43.5	-5.85	Peak
51.825	55.83	-23.46	32.37	100	0	40	-7.63	Peak
30	40.58	-10.01	30.57	100	0	40	-9.43	Peak

802.11ax20, 7095MHz, Horizontal



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
154.8875	52.75	-17.59	35.16	100	0	43.5	-8.34	Peak
30.60625	37.26	-10.44	26.82	100	0	40	-13.18	Peak
176.7125	47.7	-18.49	29.21	100	0	43.5	-14.29	Peak
209.45	45.65	-19.23	26.42	100	0	43.5	-17.08	Peak
988.4813	38.89	-3.06	35.83	100	0	54	-18.17	Peak
507.203	37.71	-10.12	27.59	100	0	46	-18.41	Peak

FCC/IC Limits for 1 GHz to 40 GHz				
Applicability	(dBm)	(uV/m at 3meters)	(dBuV/m at 3meters)	(dBuV/m at 1meter)
Restricted Band Average Limit	-	500	54 ²	63.54 ³
Restricted Band Peak Limit ¹	-	-	74	83.54
FCC §15.407(b)/ ISEDC RSS-248 §4.6 Defined Unwanted Emissions Limit	-27	-	68	77.74 ⁴

Note 1: Restricted Band Peak Limit is defined to be 20dB higher than Average Limit.

Note 2: Above 1GHz limit calculation:

$$\text{dBuV/m} = 20 \cdot \log(\text{V/m}) + 120 = 20 \cdot \log((500 [\text{uV/m}]/1000000)) + 120 = 54 [\text{dBuV/m}]$$

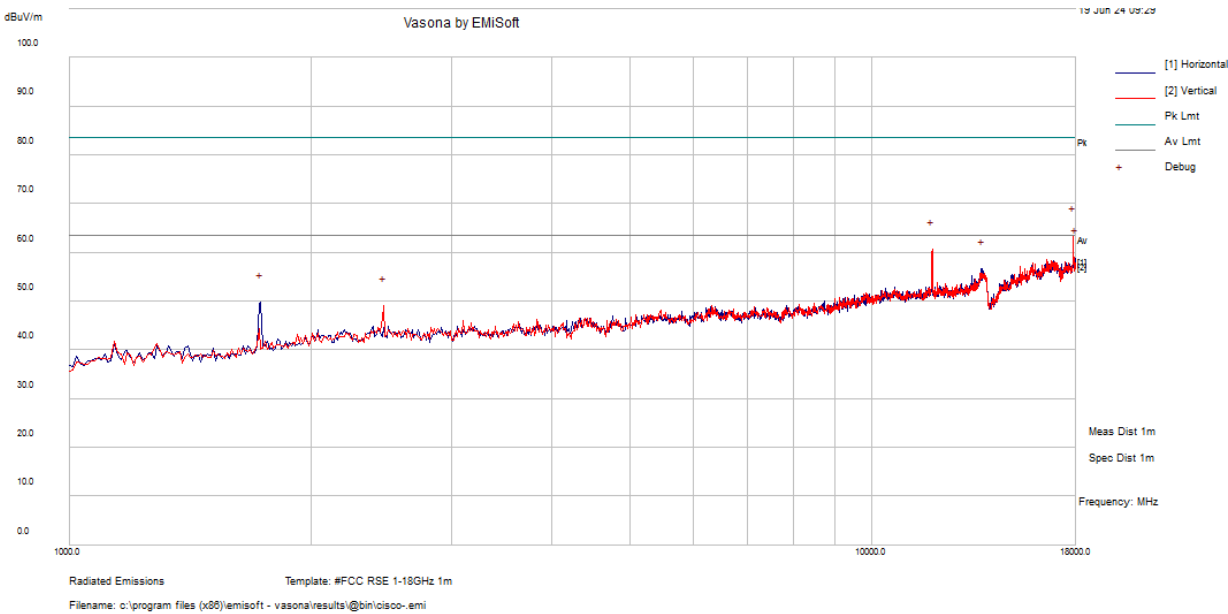
Note 3: Limits at 1 meter are determined by applying a Distance correction factor accounts for extrapolation from 1 meter to 3 meters. Formula used is as follows: $20 \cdot \log(3 \text{ meters} / 1 \text{ meter}) = 9.54$ (According to ANSI C63.10-2020 + COR.1-2023 + ERRATA TO C63.10A-2024 Section 9.4). Extrapolation calculation from 3m to 1m distance: $54 [\text{dBuV/m at 3m}] + 9.54 [\text{dB}] = 63.54 [\text{dBuV/m at 1m}]$

Note 4: Where Restricted Band Peak Limit is replaced with the stricter 78 dBuV/m limit at 1 meter, compliance is being shown for unwanted emissions per FCC §15.407(b)/ISEDC RSS-248 §4.6.

Note 5: Ports terminated for radiated measurements.

2) 1 GHz – 18 GHz, Measured at 1 meter

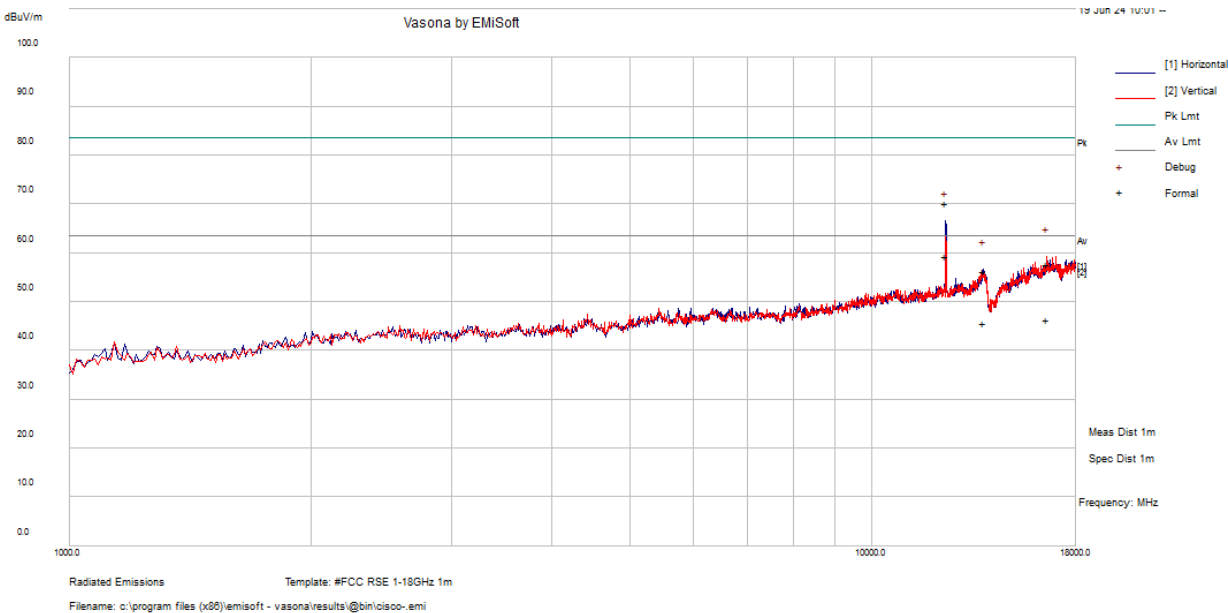
802.11ax20, 5955 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBuV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBuV/m)	Margin (dB)	Detector
17872.5	52.12	11.32	63.44	200	V	0	63.54	-0.10	Peak
11911.88	54.5	6.18	60.68	200	V	0	63.54	-2.86	Peak
18000	46.98	12.05	59.03	200	H	0	63.54	-4.52	Peak
13771.25	44.86	11.79	56.65	200	H	0	63.54	-6.89	Peak
1733.125	56.91	-7.07	49.84	200	H	0	63.54	-13.7	Peak
2466.25	52.29	-3.12	49.17	200	V	0	63.54	-14.37	Peak

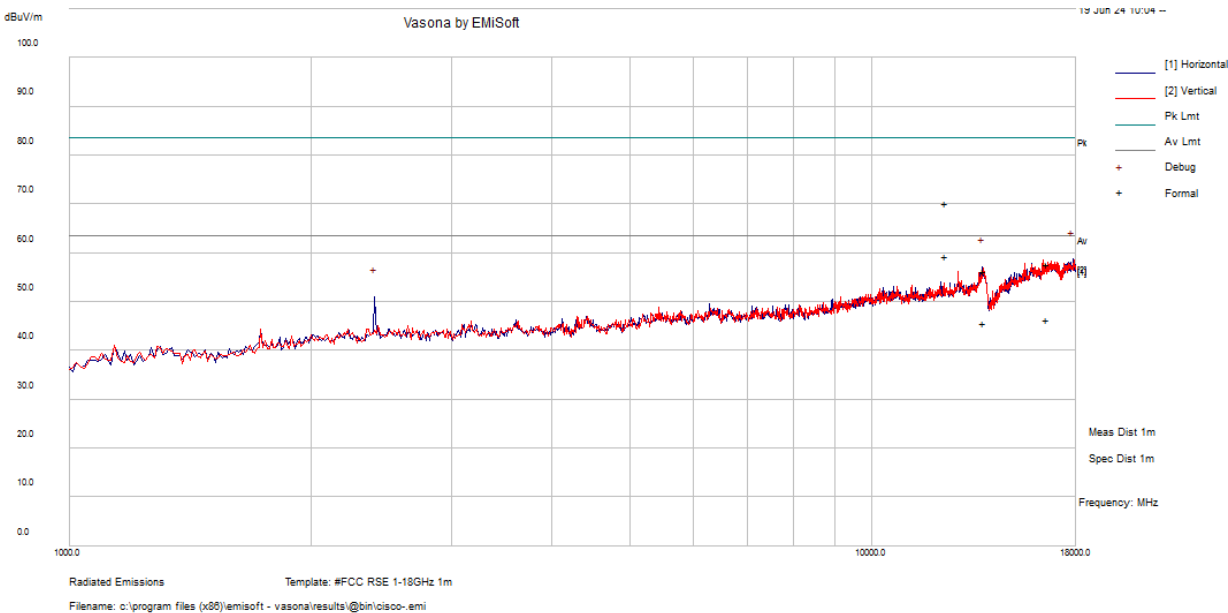
Note: The plot above shows that all peak emissions below 18GHz passed the average limits.

802.11ax20, 6195 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
12391.51	62.73	7.54	70.27	173	H	308	83.54	-13.27	Peak
16565.42	46.3	11.28	57.58	216	V	73	83.54	-25.96	Peak
13812.26	44.39	11.95	56.34	178	H	106	83.54	-27.2	Peak
12391.51	51.87	7.54	59.41	173	H	308	63.54	-4.13	Average
16565.42	35.11	11.28	46.39	216	V	73	63.54	-17.15	Average
13812.26	33.75	11.96	45.71	178	H	106	63.54	-17.83	Average

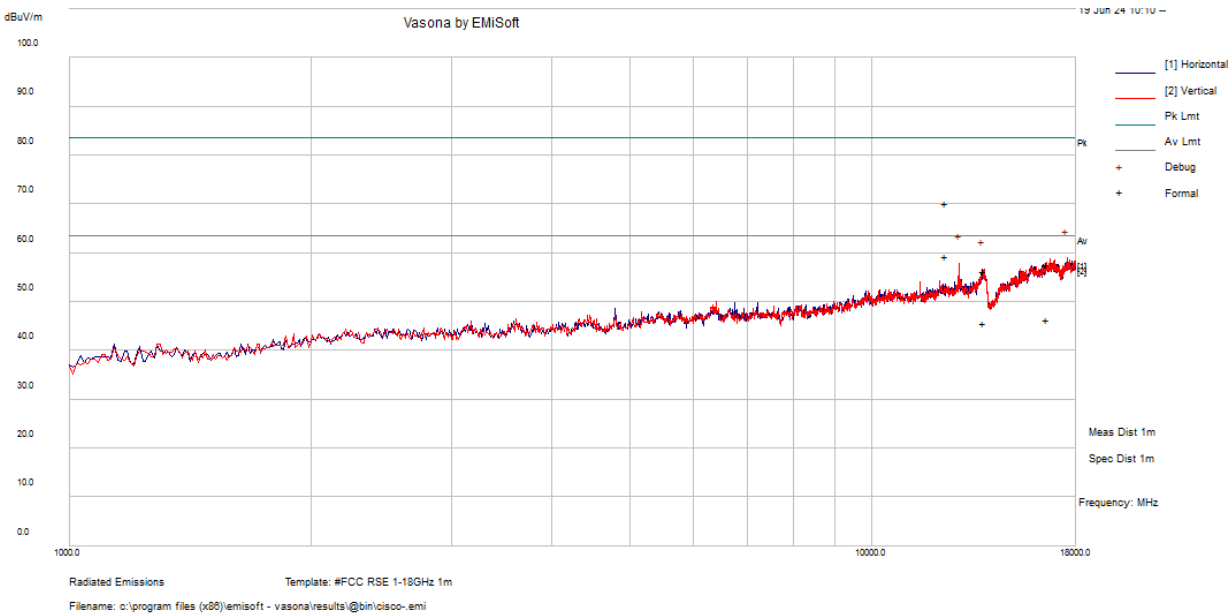
802.11ax20, 6415 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
17840.63	47.32	11.38	58.7	200	H	0	63.54	-4.84	Peak
13771.25	45.32	11.79	57.11	200	H	0	63.54	-6.43	Peak
2402.5	53.68	-2.68	51	200	H	0	63.54	-12.54	Peak

Note: The plot above shows that all peak emissions below 18GHz passed the average limits.

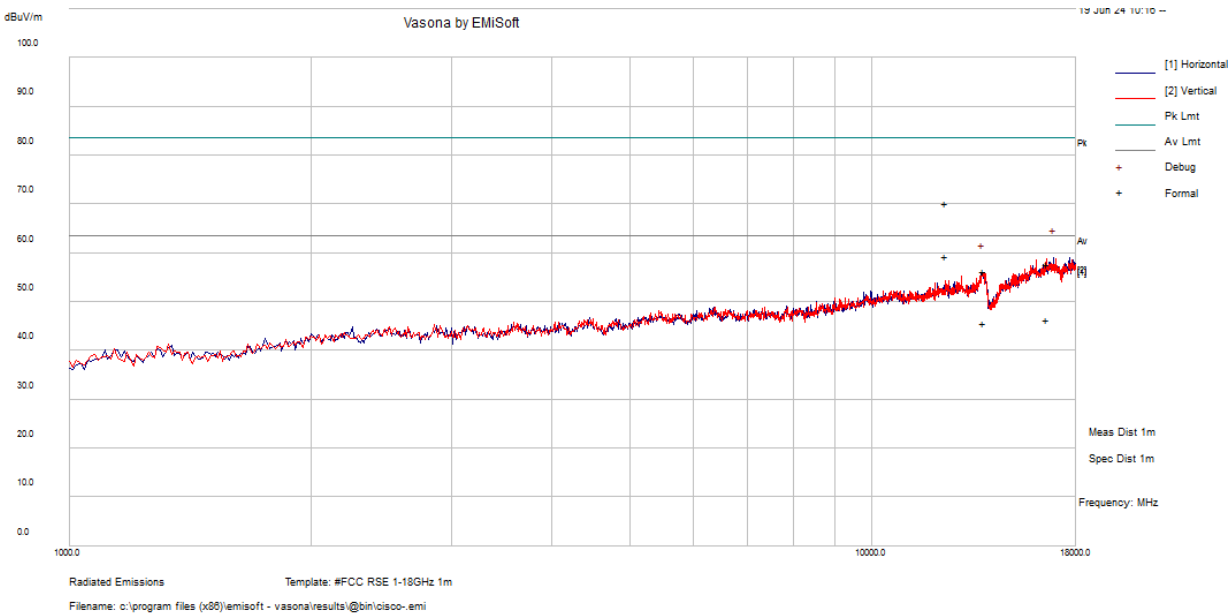
802.11ax20, 6435 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
17543.13	47.57	11.34	58.91	200	V	0	63.54	-4.63	Peak
12868.13	49.33	8.45	57.78	200	V	0	63.54	-5.76	Peak
13771.25	44.87	11.79	56.66	200	H	0	63.54	-6.88	Peak

Note: The plot above shows that all peak emissions below 18GHz passed the average limits.

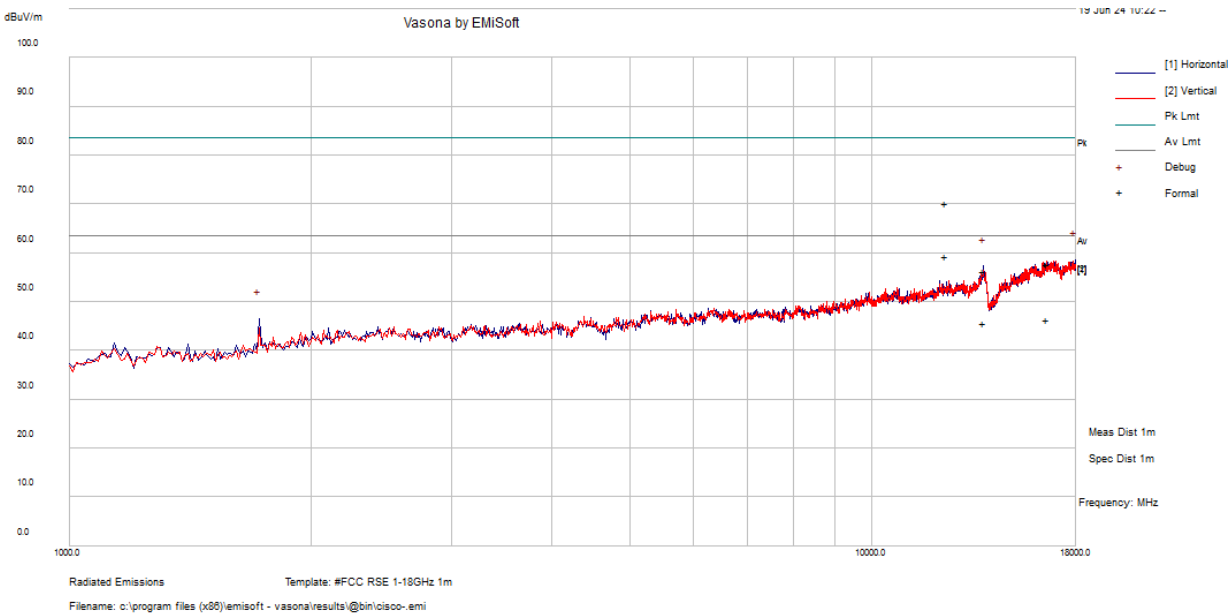
802.11ax20, 6475 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
16895	47.37	11.64	59.01	200	H	0	63.54	-4.53	Peak
13781.88	44.12	11.9	56.02	200	V	0	63.54	-7.52	Peak

Note: The plot above shows that all peak emissions below 18GHz passed the average limits.

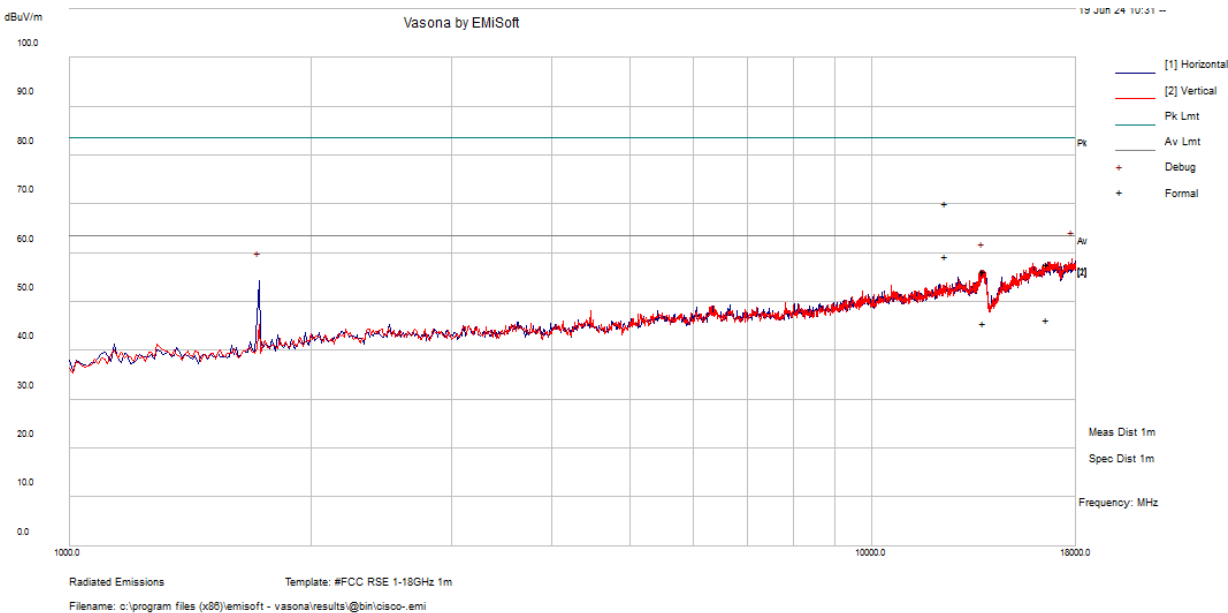
802.11ax20, 6515 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
17957.5	47.05	11.47	58.52	200	H	0	63.54	-5.02	Peak
13813.75	45.34	11.94	57.28	200	H	0	63.54	-6.26	Peak
1722.5	53.65	-7.15	46.5	200	H	0	63.54	-17.04	Peak

Note: The plot above shows that all peak emissions below 18GHz passed the average limits.

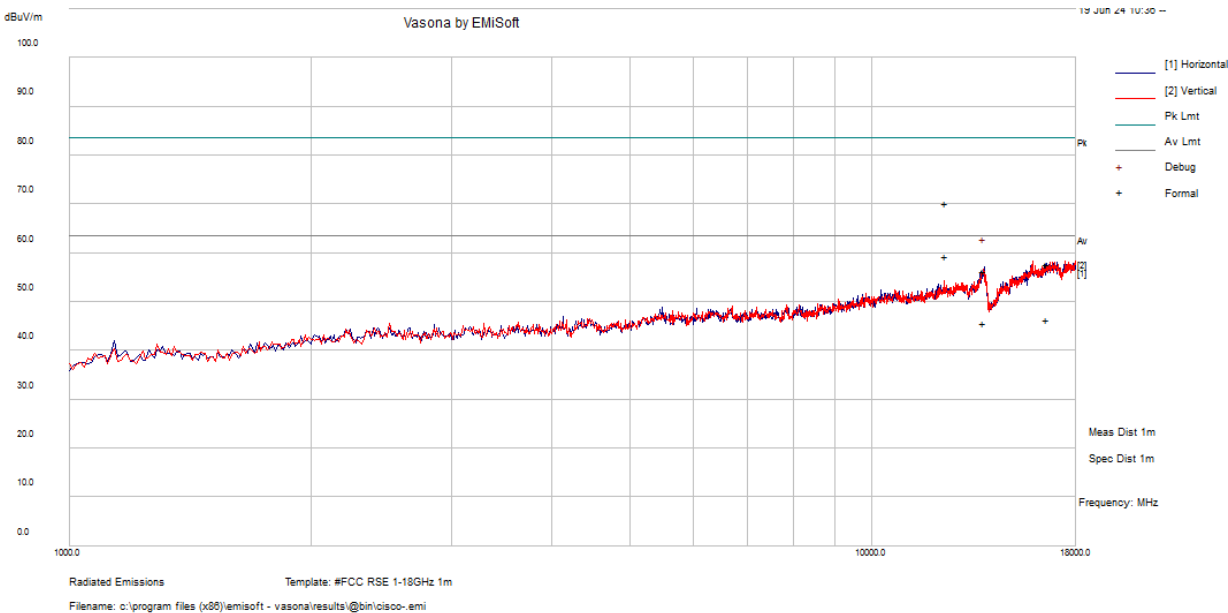
802.11ax20, 6535 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
17808.75	47.3	11.36	58.66	200	V	0	63.54	-4.88	Peak
13792.5	44.35	12.01	56.36	200	V	0	63.54	-7.18	Peak
1722.5	61.49	-7.15	54.34	200	H	0	63.54	-9.2	Peak

Note: The plot above shows that all peak emissions below 18GHz passed the average limits.

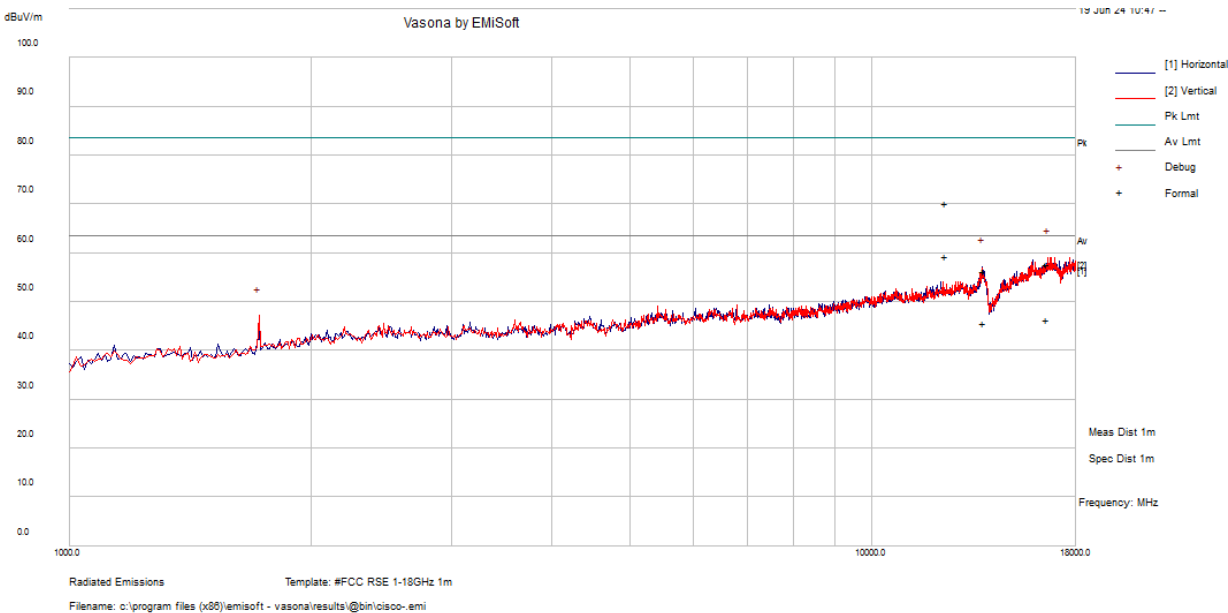
802.11ax20, 6695 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
13835	45.39	11.71	57.1	200	H	0	63.54	-6.44	Peak

Note: The plot above shows that all peak emissions below 18GHz passed the average limits.

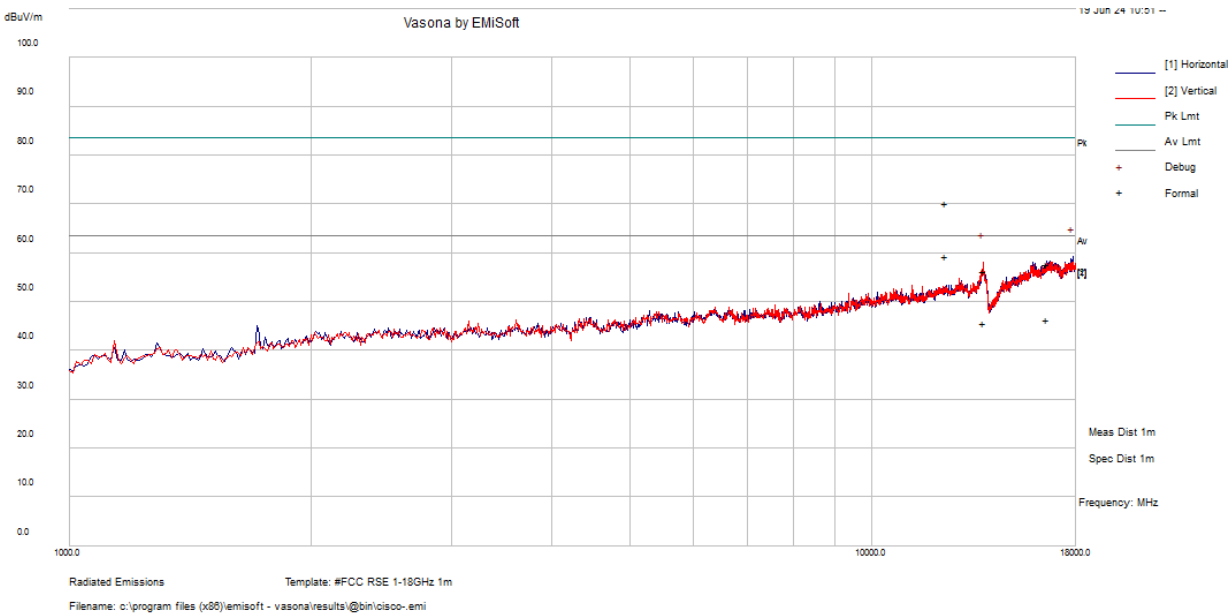
802.11ax20, 6855 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
16629.38	47.58	11.53	59.11	200	V	0	63.54	-4.44	Peak
13771.25	45.36	11.79	57.15	200	H	0	63.54	-6.39	Peak
1722.5	54.27	-7.15	47.12	200	V	0	63.54	-16.42	Peak

Note: The plot above shows that all peak emissions below 18GHz passed the average limits.

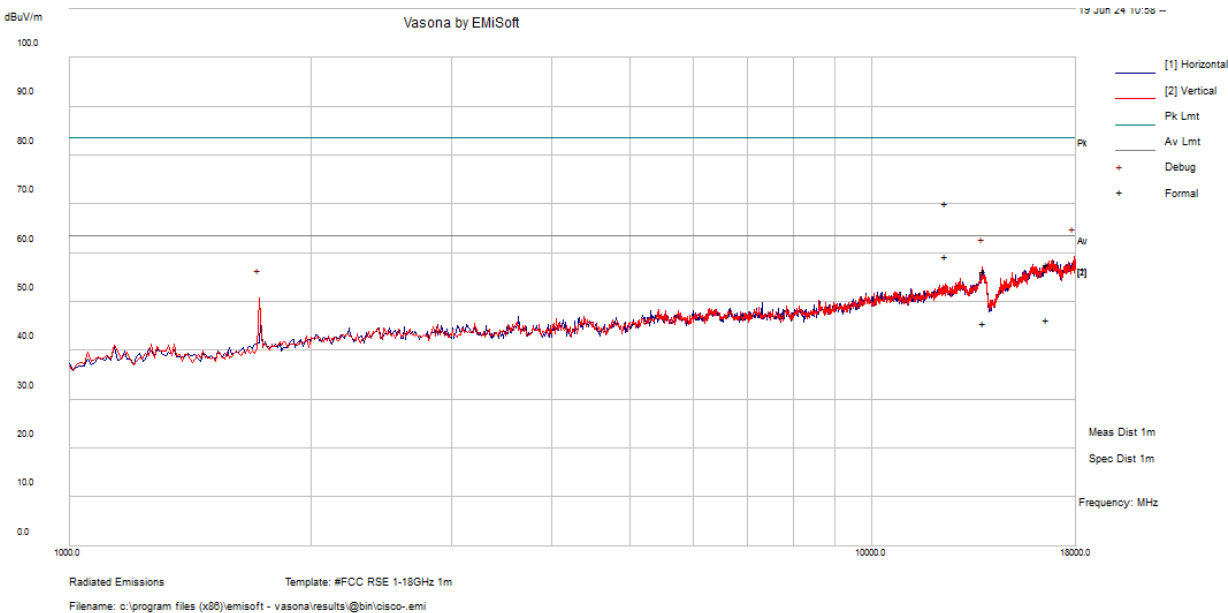
802.11ax20, 6895 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
17830	47.86	11.37	59.23	200	H	0	63.54	-4.31	Peak
13792.5	46.05	12.01	58.06	200	V	0	63.54	-5.48	Peak

Note: The plot above shows that all peak emissions below 18GHz passed the average limits.

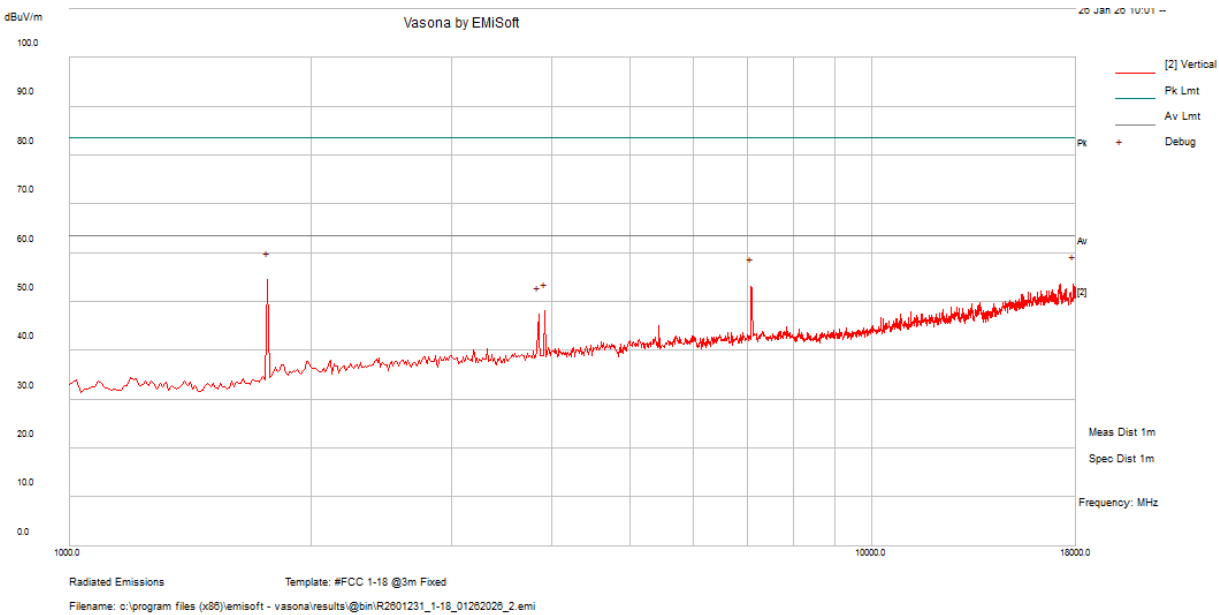
802.11ax20, 6995 MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
17893.75	48.07	11.26	59.33	200	V	0	63.54	-4.21	Peak
13760.63	45.39	11.69	57.08	200	V	0	63.54	-6.46	Peak
1722.5	57.93	-7.15	50.78	200	V	0	63.54	-12.76	Peak

Note: The plot above shows that all peak emissions below 18GHz passed the average limits.

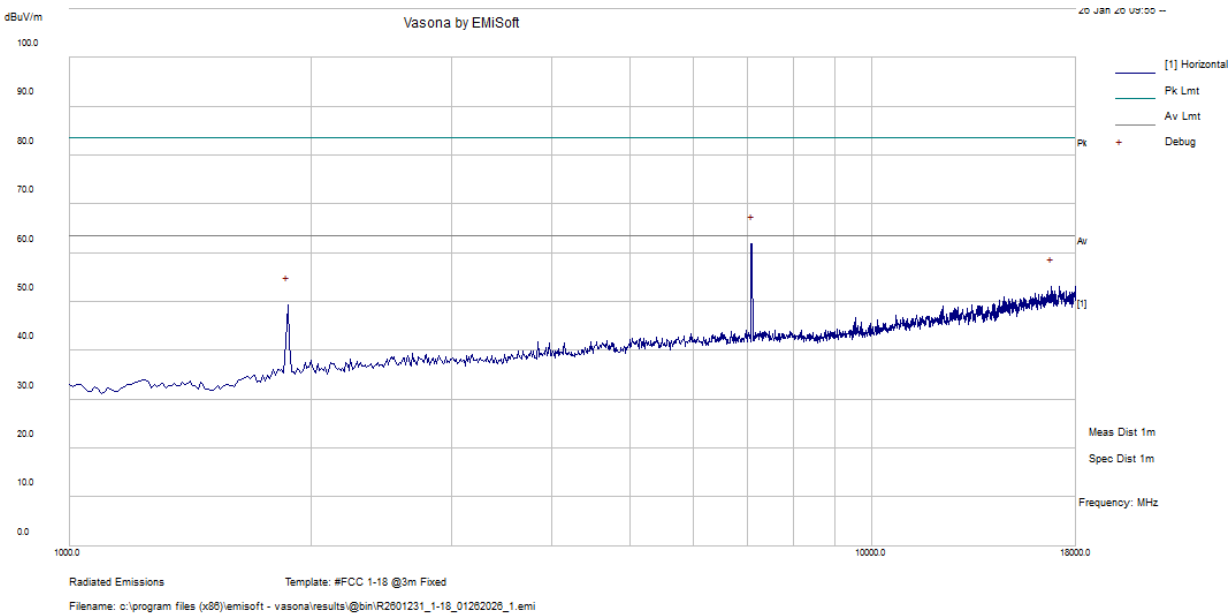
802.11ax20, 7095MHz, Vertical



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
1765	60.33	-5.89	54.44	100	0	63.54	-9.1	Peak
17861.88	36.53	17.12	53.65	100	0	63.54	-9.89	Peak
7088.125	48.12	5.07	53.19	100	0	63.54	-10.35	Peak
3921.875	48.42	-0.37	48.05	100	0	63.54	-15.5	Peak
3847.5	47.67	-0.33	47.34	100	0	63.54	-16.2	Peak

Note: The plot above shows that all peak emissions below 18GHz passed the average limits.

802.11ax20, 7095MHz, Horizontal

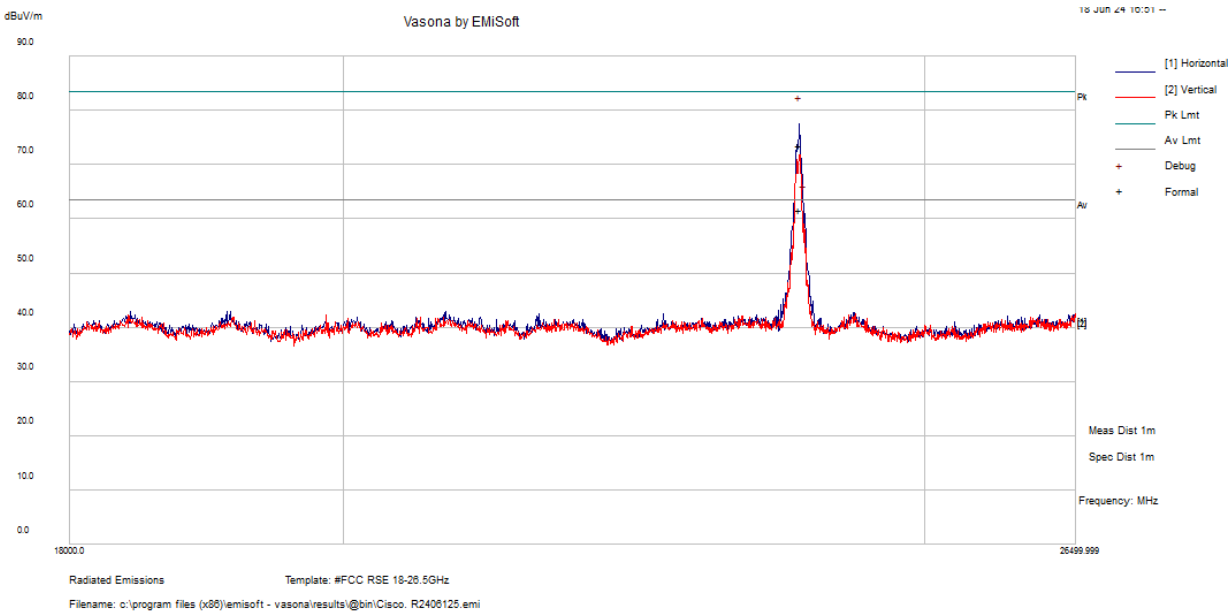


Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
7098.75	56.74	5.08	61.82	100	0	63.54	-1.72	Peak
16788.75	34.65	18.55	53.2	100	0	63.54	-10.34	Peak
1871.25	54.03	-4.73	49.3	100	0	63.54	-14.24	Peak

Note: The plot above shows that all peak emissions below 18GHz passed the average limits.

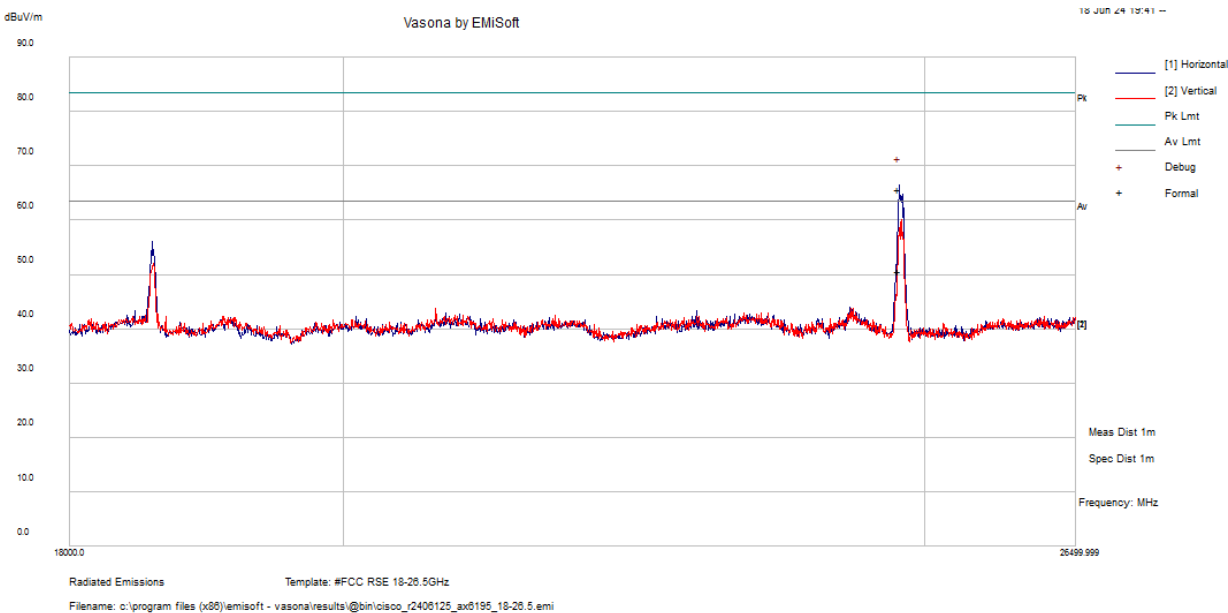
3) 18 GHz – 26.5 GHz, Measured at 1 meter

802.11ax20, 5955MHz



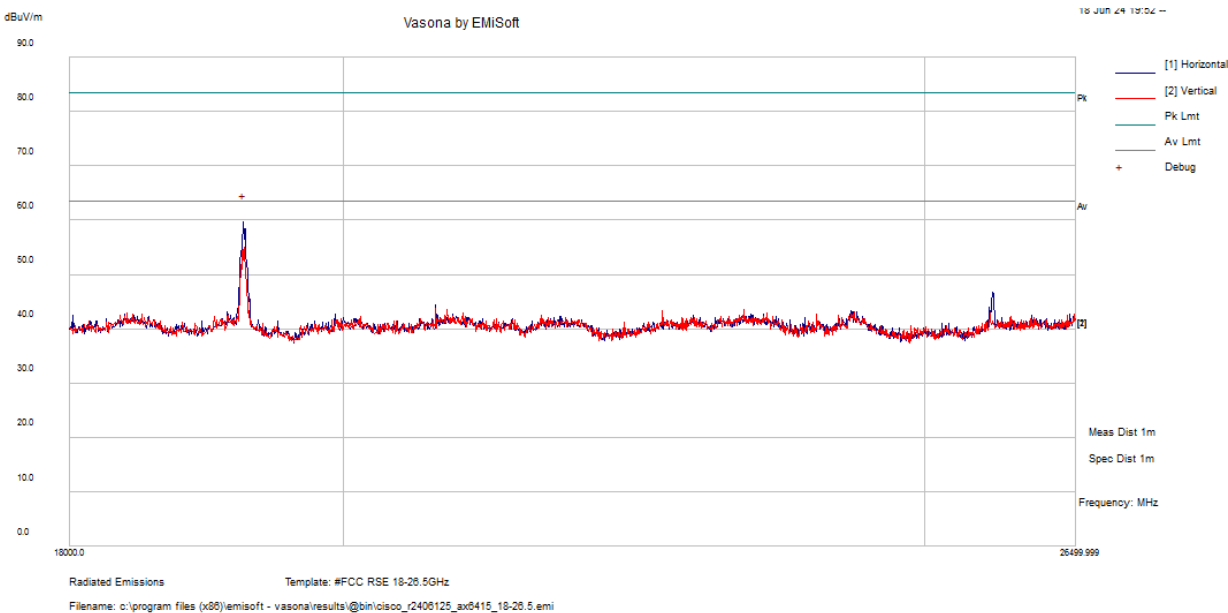
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBuV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBuV/m)	Margin (dB)	Detector
23826.38	68.43	5.23	73.66	110	H	305	83.54	-9.88	Peak
23826.38	56.48	5.23	61.71	110	H	305	63.54	-1.83	Average

802.11ax20, 6195MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
24759.46	59.38	6.33	65.71	135	H	288	83.54	-17.83	Peak
24759.46	44.21	6.34	50.55	135	H	288	63.54	-12.99	Average

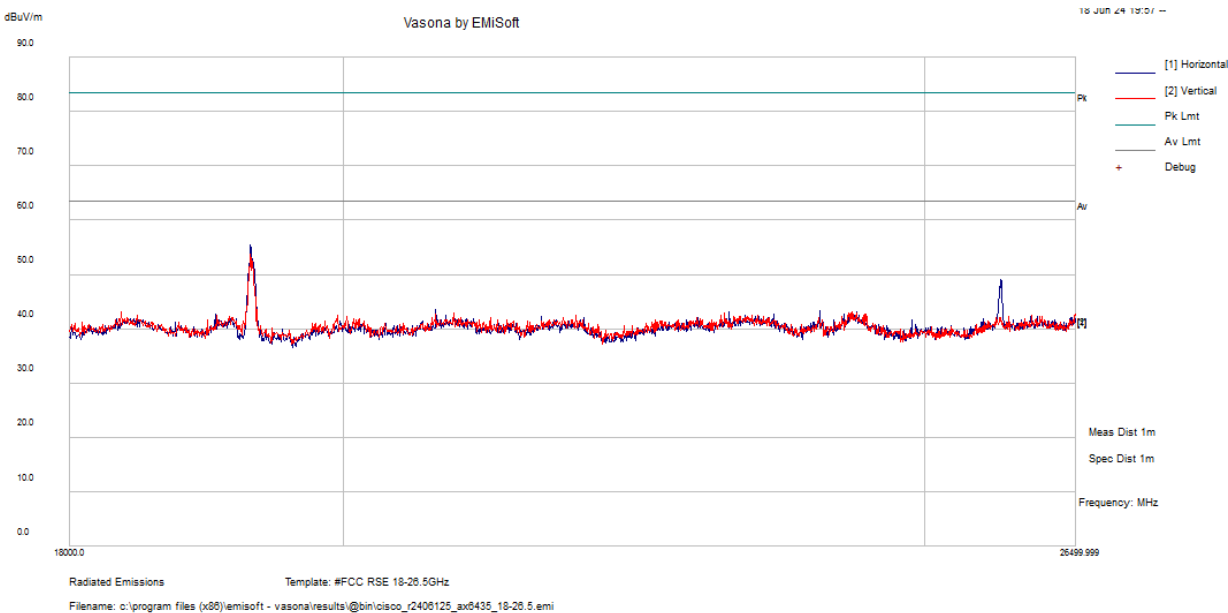
802.11ax20, 6415MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
19243.13	58.15	1.44	59.59	100	0	100	63.54	-3.95	Peak

Note: Above table and plot show all peak emissions pass under stricter average limit and thus show compliance in range of 18-26.5GHz

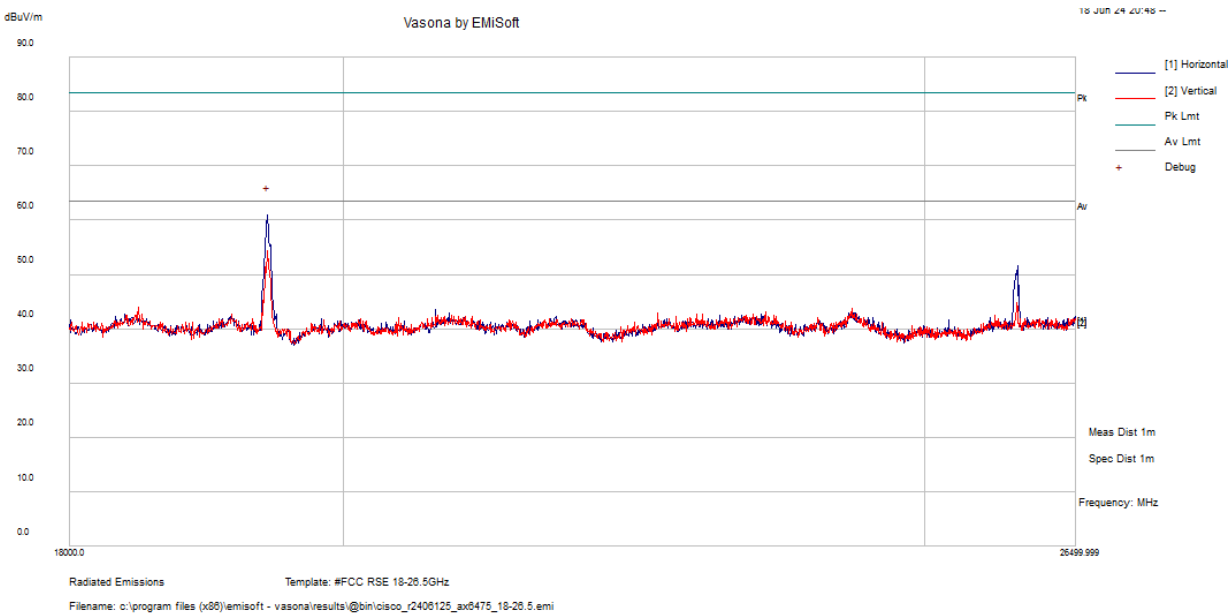
802.11ax20, 6435MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
19298.43	53.96	1.23	55.19	100	V	352	63.54	-8.35	Peak

Note: Above table and plot show all peak emissions pass under stricter average limit and thus show compliance in range of 18-26.5GHz

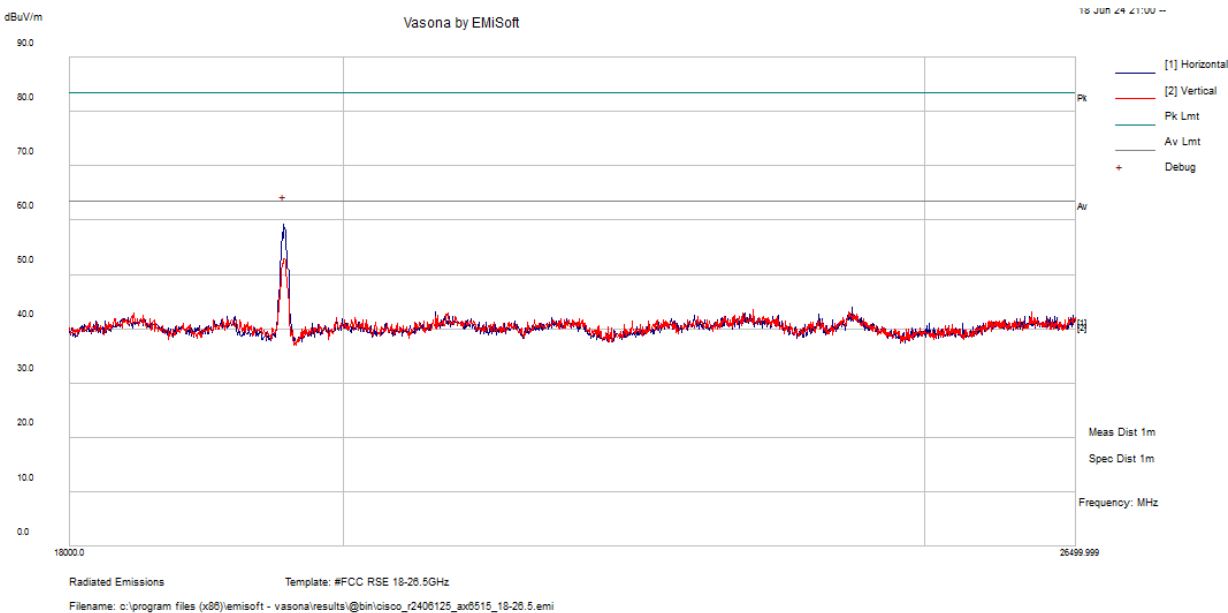
802.11ax20, 6475MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
19423.75	60.02	1.00	61.02	100	H	0	63.54	-2.52	Peak

Note: Above table and plot show all peak emissions pass under stricter average limit and thus show compliance in range of 18-26.5GHz

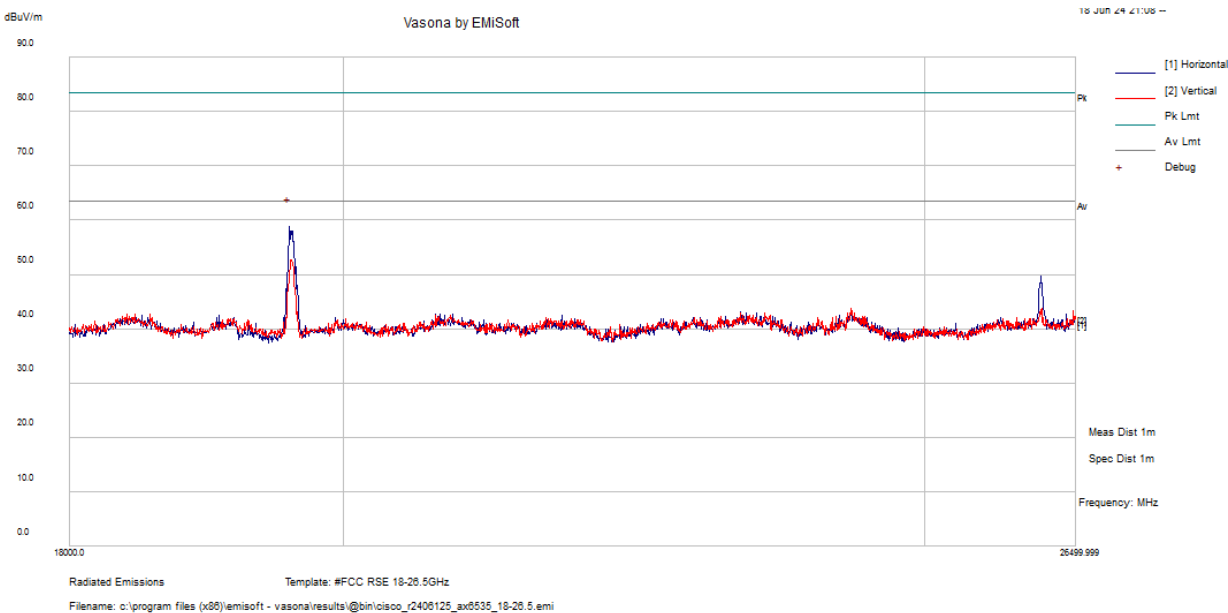
802.11ax20, 6515MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
19545.94	58.48	0.82	59.30	100	H	0	63.54	-4.24	Peak

Note: Above table and plot show all peak emissions pass under stricter average limit and thus show compliance in range of 18-26.5GHz

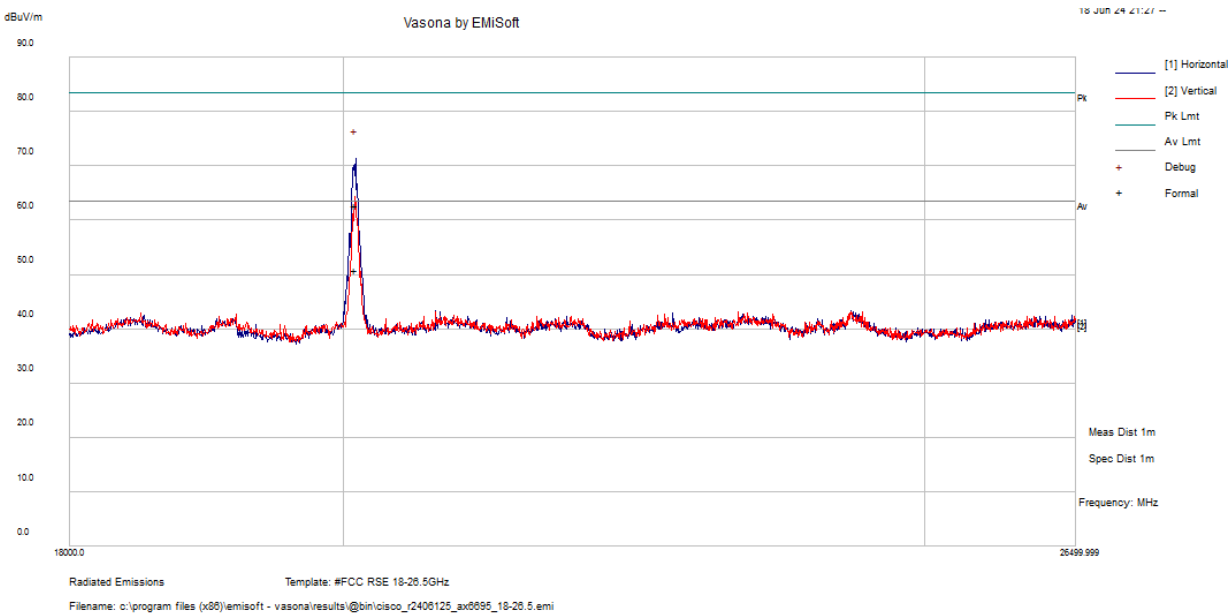
802.11ax20, 6535MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
19583.13	58.05	0.78	58.83	100	H	0	63.54	-4.71	Peak

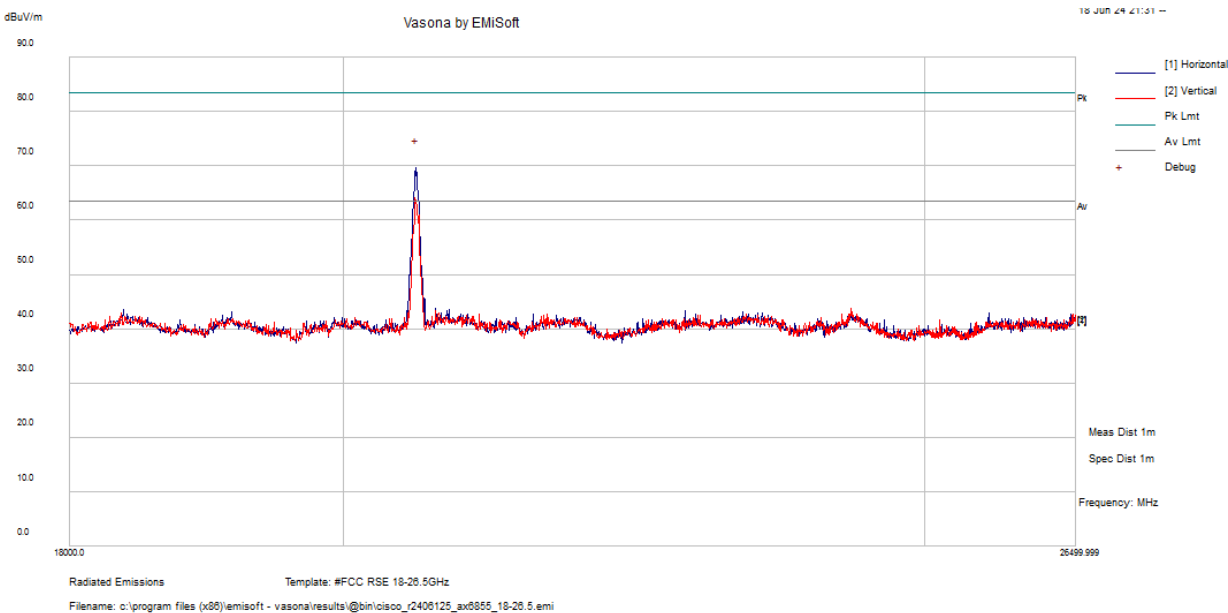
Note: Above table and plot show all peak emissions pass under stricter average limit and thus show compliance in range of 18-26.5GHz

802.11ax20, 6695MHz



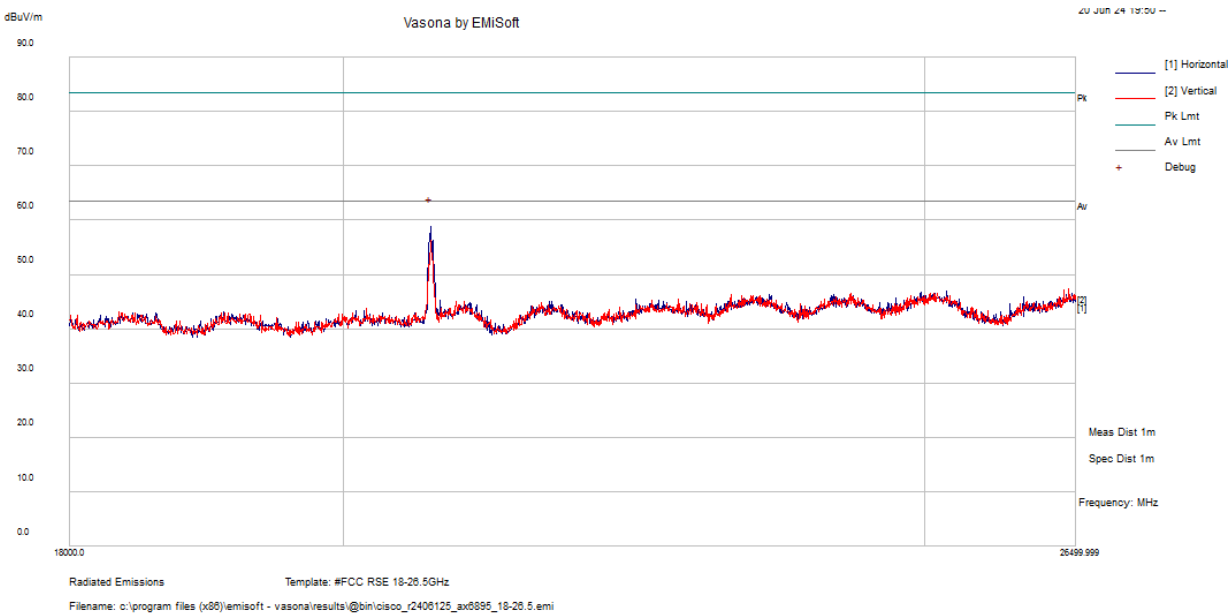
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
20093.36	61.54	1.29	62.83	288	H	267	83.54	-20.71	Peak
20093.36	49.62	1.3	50.92	288	H	267	63.54	-12.62	Average

802.11ax20, 6855MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
20567.92	64.84	1.71	66.55	139	H	280	83.54	-16.99	Peak
20567.92	53.16	1.71	54.87	139	H	280	63.54	-8.67	Average

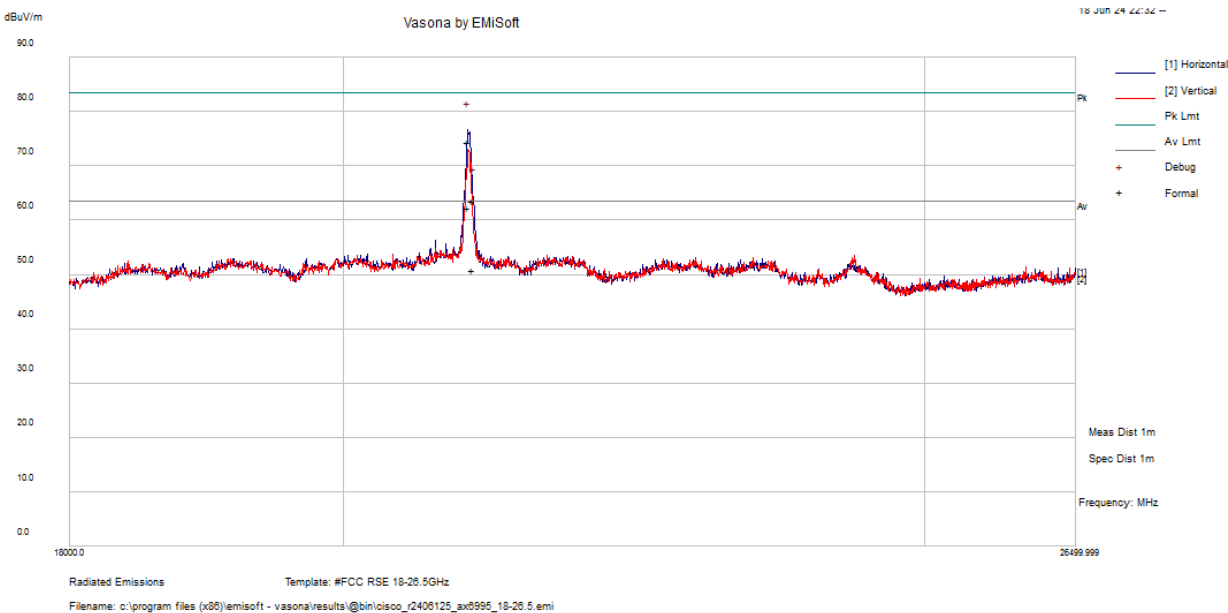
802.11ax20, 6895MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
20677.5	57	1.84	58.84	200	H	0	63.54	-4.71	Peak

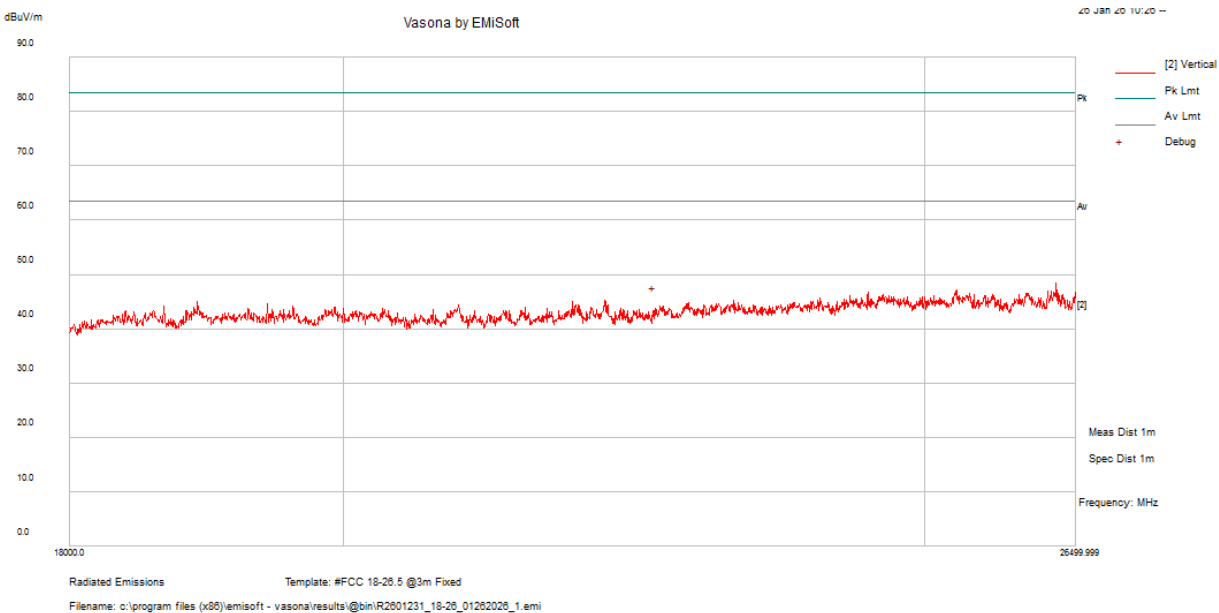
Note: Above table and plot show all peak emissions pass under stricter average limit and thus show compliance in range of 18-26.5GHz

802.11ax20, 6995MHz



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
20978.4	60.85	13.62	74.47	101	H	258	83.54	-9.07	Peak
21021.83	50.4	13.28	63.68	109	H	257	83.54	-19.86	Peak
20978.4	48.72	13.63	62.35	101	H	258	63.54	-1.19	Average
21021.83	37.6	13.27	50.87	109	H	257	63.54	-12.67	Average

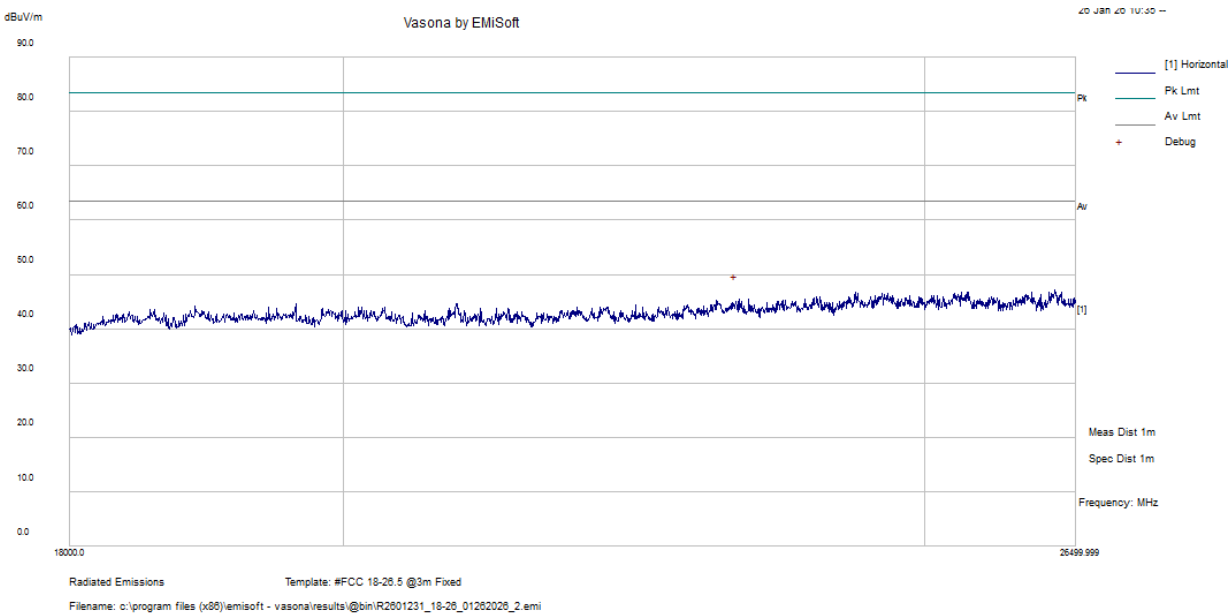
802.11ax20, 7095MHz, Vertical



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
22526.67	38.63	3.82	42.45	150	0	63.54	-21.09	Peak

Note: Above table and plot show all peak emissions pass under stricter average limit and thus show compliance in range of 18-26.5GHz

802.11ax20, 7095MHz, Horizontal

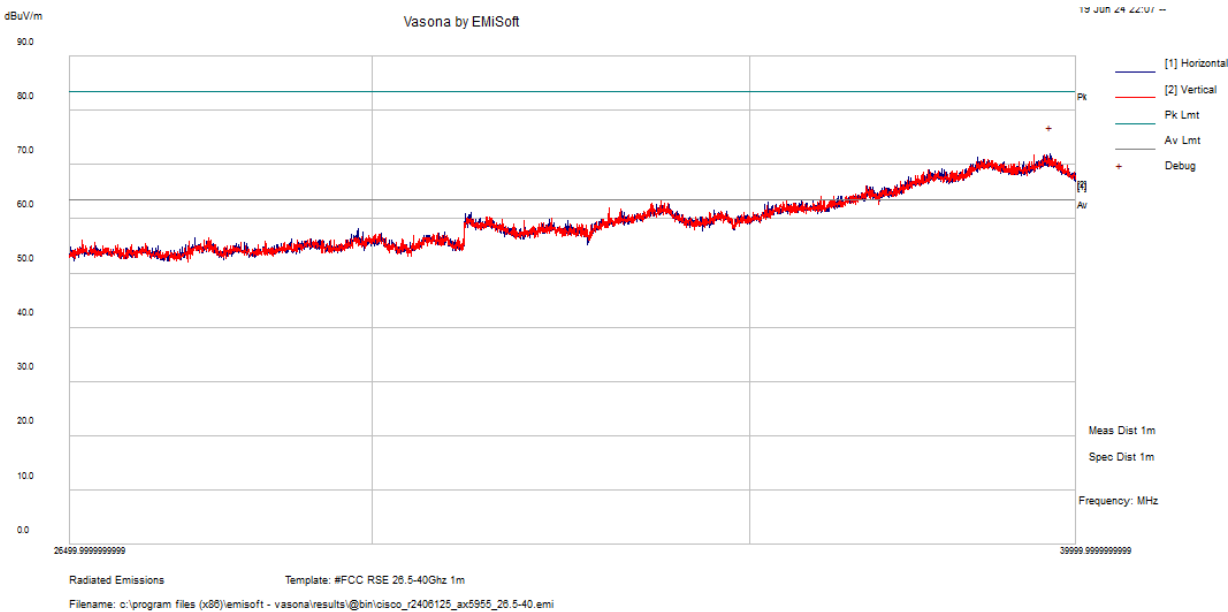


Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
23252.57	39.76	4.90	44.66	150	0	63.54	-18.88	Peak

Note: Above table and plot show all peak emissions pass under stricter average limit and thus show compliance in range of 18-26.5GHz

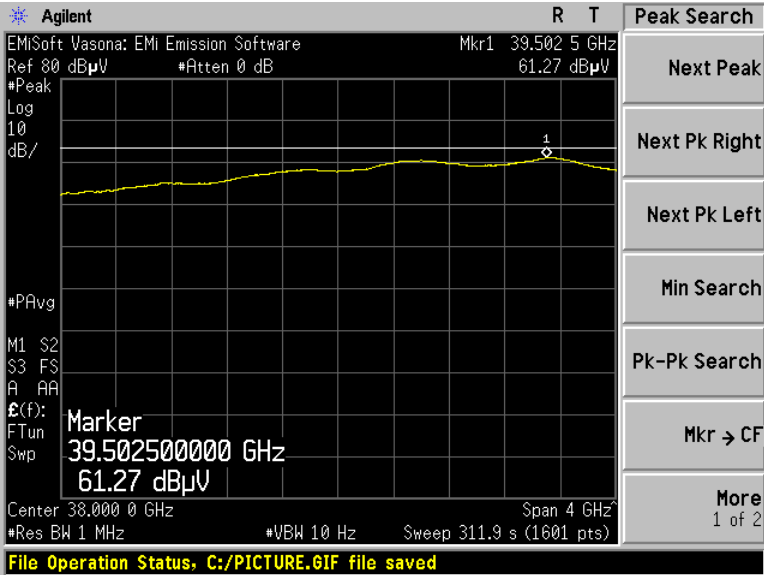
4) 26.5 GHz – 40 GHz, Measured at 1 meter

802.11ax20, 5955MHz



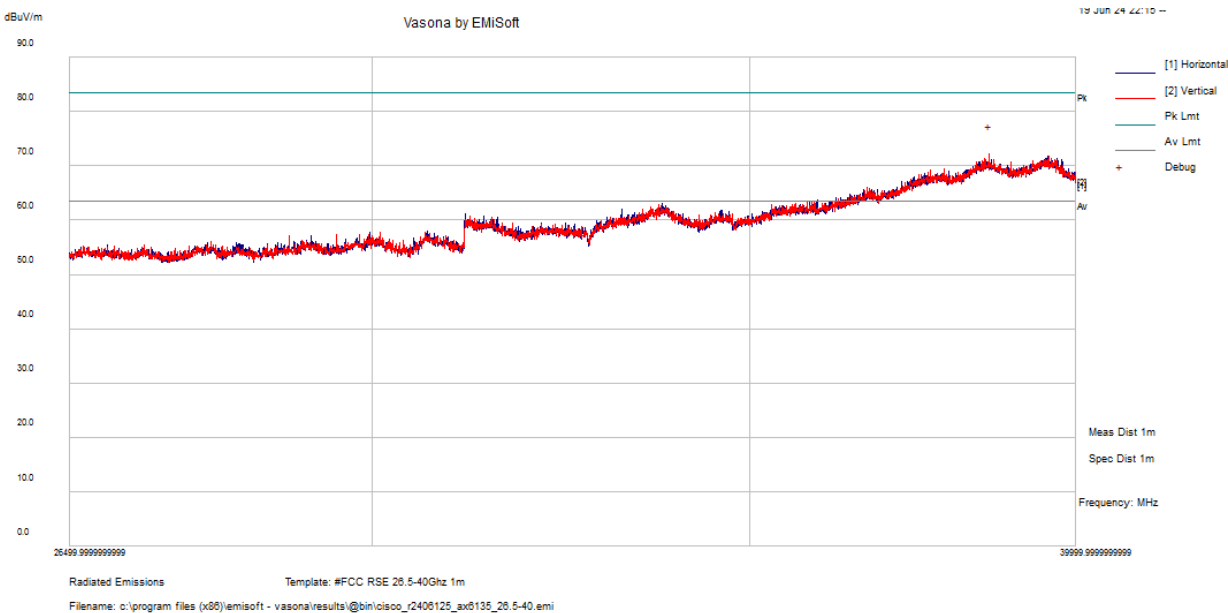
Note: Above plot shows compliance for 26.5-36GHz.

Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBuV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBuV/m)	Margin (dB)	Detector
39586.56	49.67	22.29	71.96	200	H	0	83.54	-11.58	Peak
39502.5	38.98	22.29	61.27	200	H	0	63.54	-2.27	Average



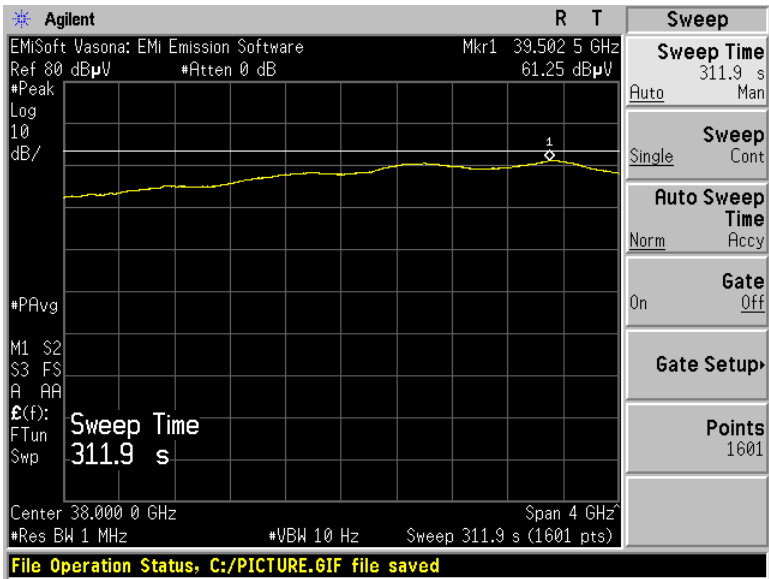
Note: The plot above shows reduced VBW for average measurements compared to average limit, thus the EUT complies with 36-40GHz frequency range average limit requirement.

802.11ax20, 6195MHz



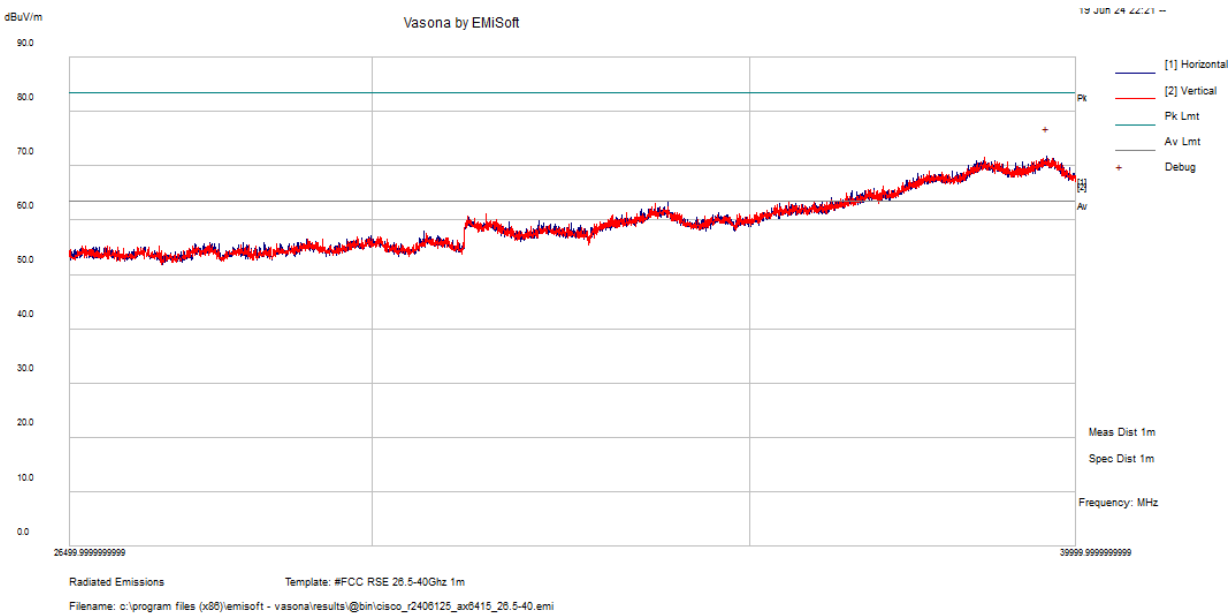
Note: Above plot shows compliance for 26.5-36GHz.

Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
38603.59	50.73	21.51	72.24	200	V	0	83.54	-11.3	Peak
39502.5	39.74	21.51	61.25	200	V	0	63.54	-2.29	Average



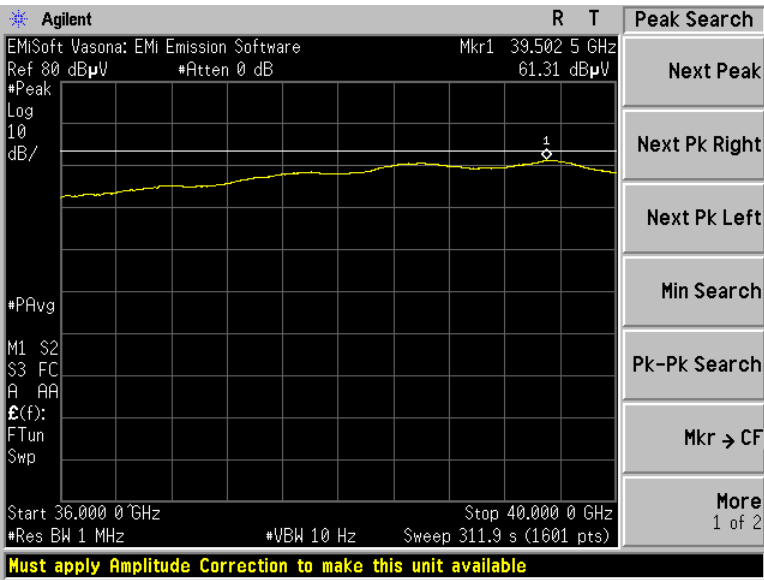
Note: The plot above shows reduced VBW for average measurements compared to average limit, thus the EUT complies with 36-40GHz frequency range average limit requirement.

802.11ax20, 6415MHz



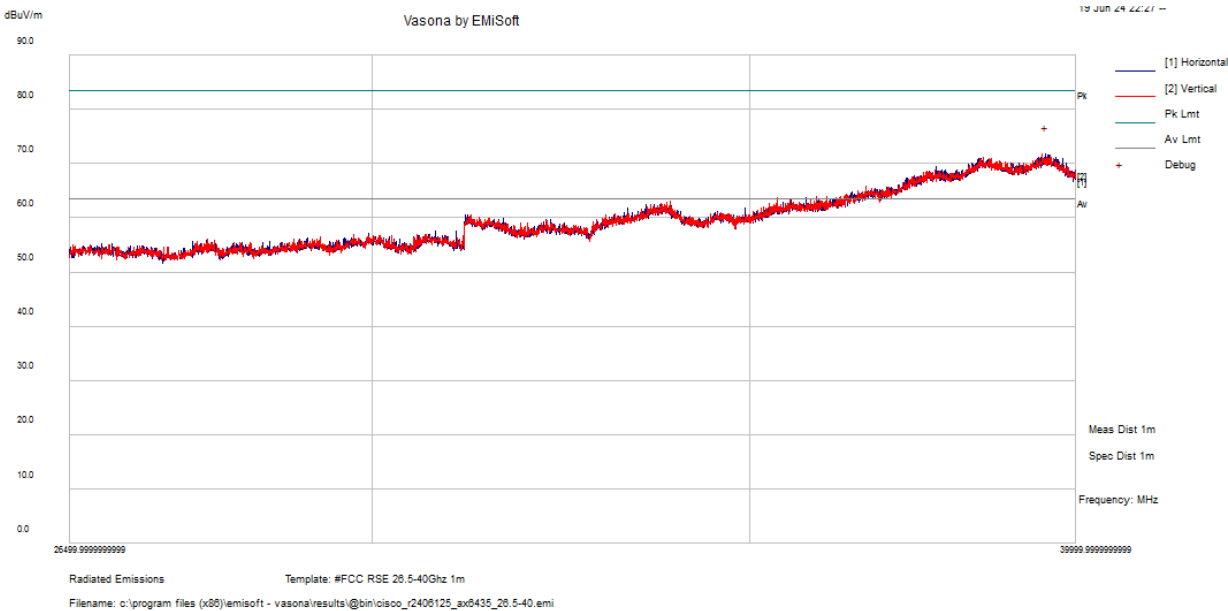
Note: Above plot shows compliance for 26.5-36GHz.

Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
39523.28	49.26	22.56	71.82	200	H	0	83.54	-11.72	Peak
39502.5	38.75	22.56	61.31	200	H	0	63.54	-2.23	Average



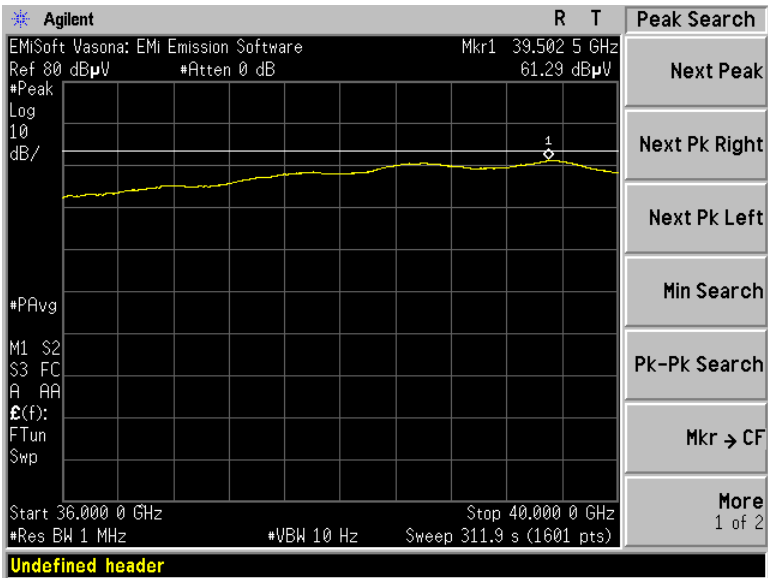
Note: The plot above shows reduced VBW for average measurements compared to average limit, thus the EUT complies with 36-40GHz frequency range average limit requirement.

802.11ax20, 6435MHz



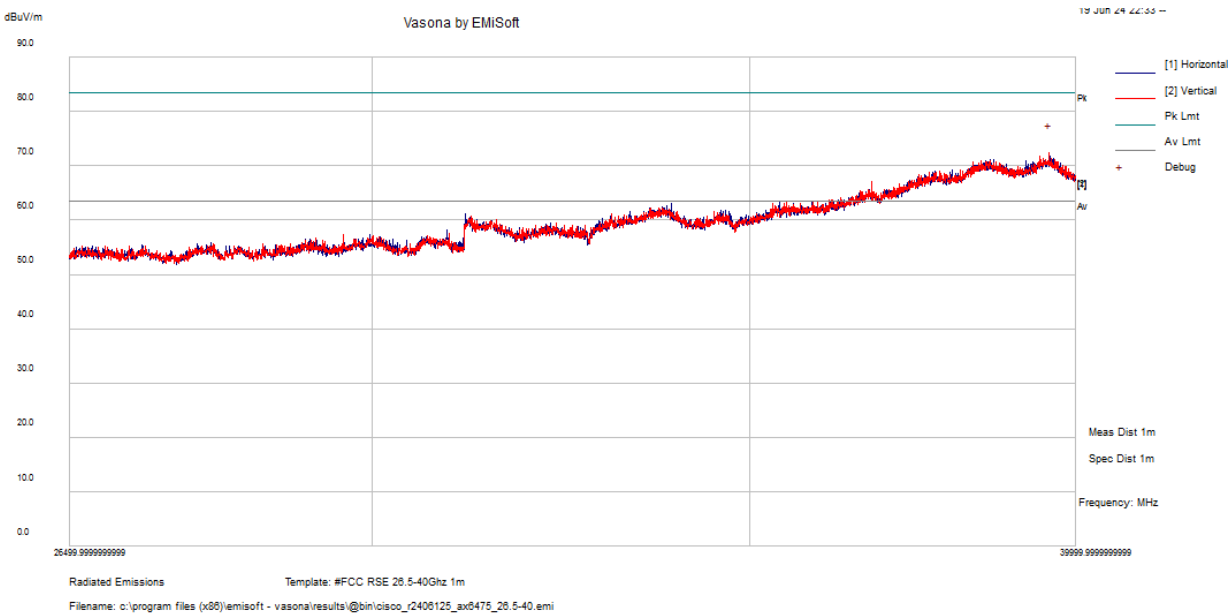
Note: Above plot shows compliance for 26.5-36GHz.

Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
39510.63	49.1	22.61	71.71	200	H	0	83.54	-11.83	Peak
39502.5	38.68	22.61	61.29	200	H	0	63.54	-2.25	Average



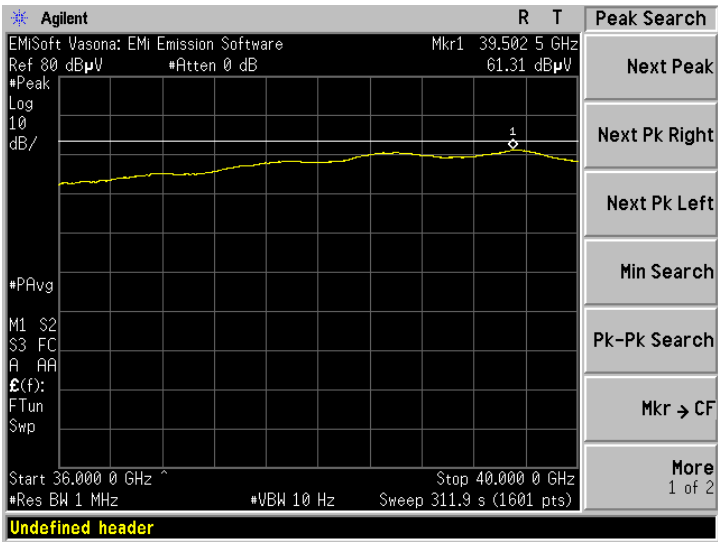
Note: The plot above shows reduced VBW for average measurements compared to average limit, thus the EUT complies with 36-40GHz frequency range average limit requirement.

802.11ax20, 6475MHz



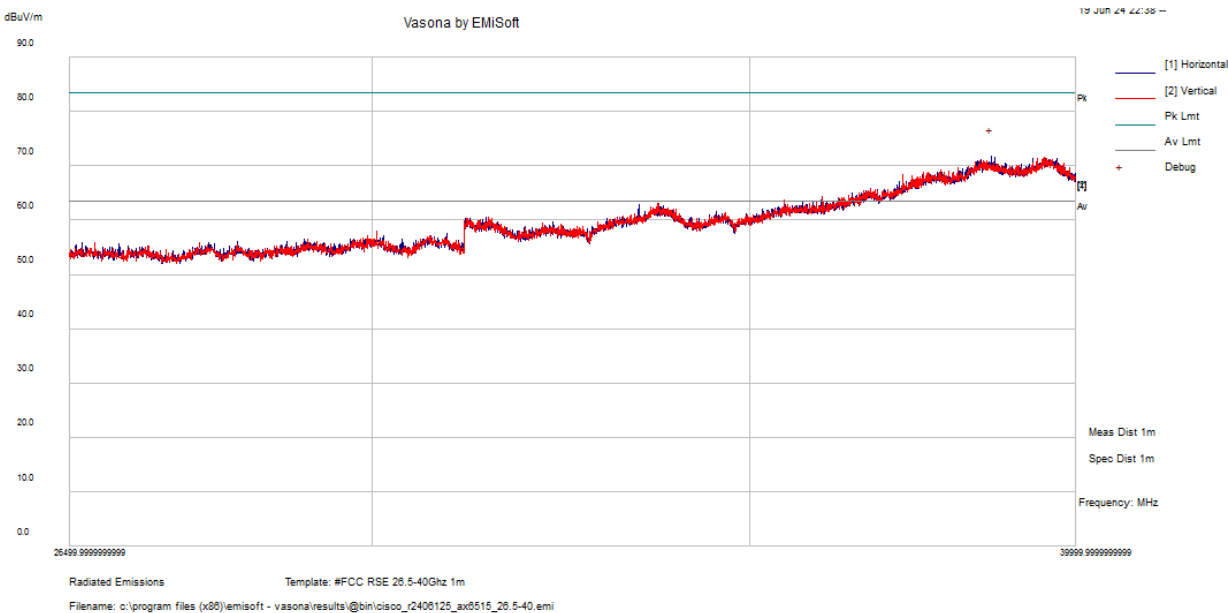
Note: Above plot shows compliance for 26.5-36GHz.

Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBμV/m)	Margin (dB)	Detector
39561.25	50.11	22.4	72.51	200	V	0	83.54	-11.03	Peak
39502.5	38.91	22.4	61.31	200	V	0	63.54	-2.23	Average



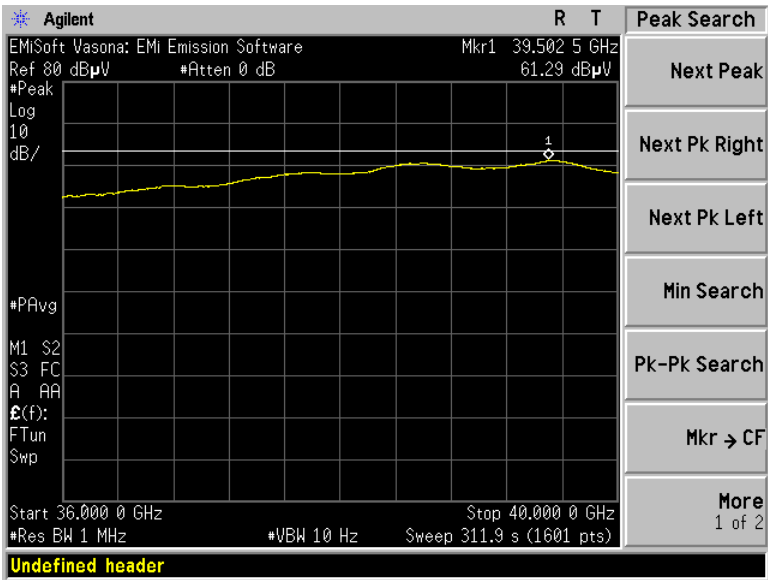
Note: The plot above shows reduced VBW for average measurements compared to average limit, thus the EUT complies with 36-40GHz frequency range average limit requirement.

802.11ax20, 6515MHz



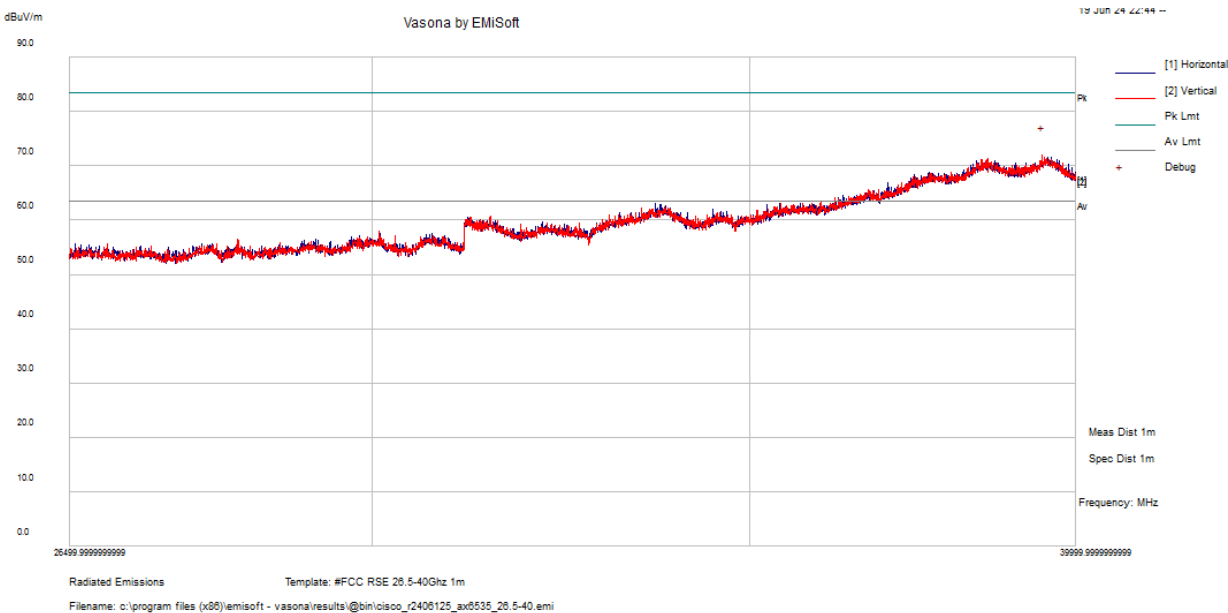
Note: Above plot shows compliance for 26.5-36GHz.

Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
38633.13	50.32	21.38	71.7	200	H	0	83.54	-11.84	Peak
39502.5	39.91	21.38	61.29	200	H	0	63.54	-2.25	Average



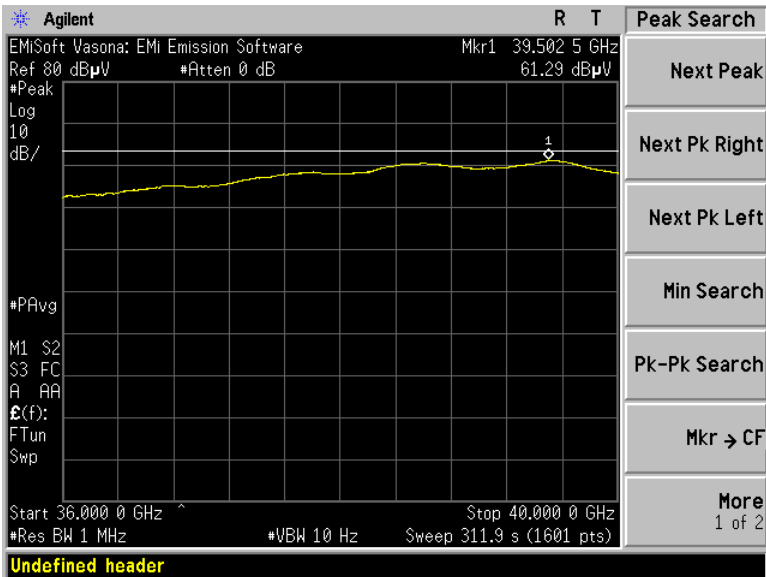
Note: The plot above shows reduced VBW for average measurements compared to average limit, thus the EUT complies with 36-40GHz frequency range average limit requirement.

802.11ax20, 6535MHz



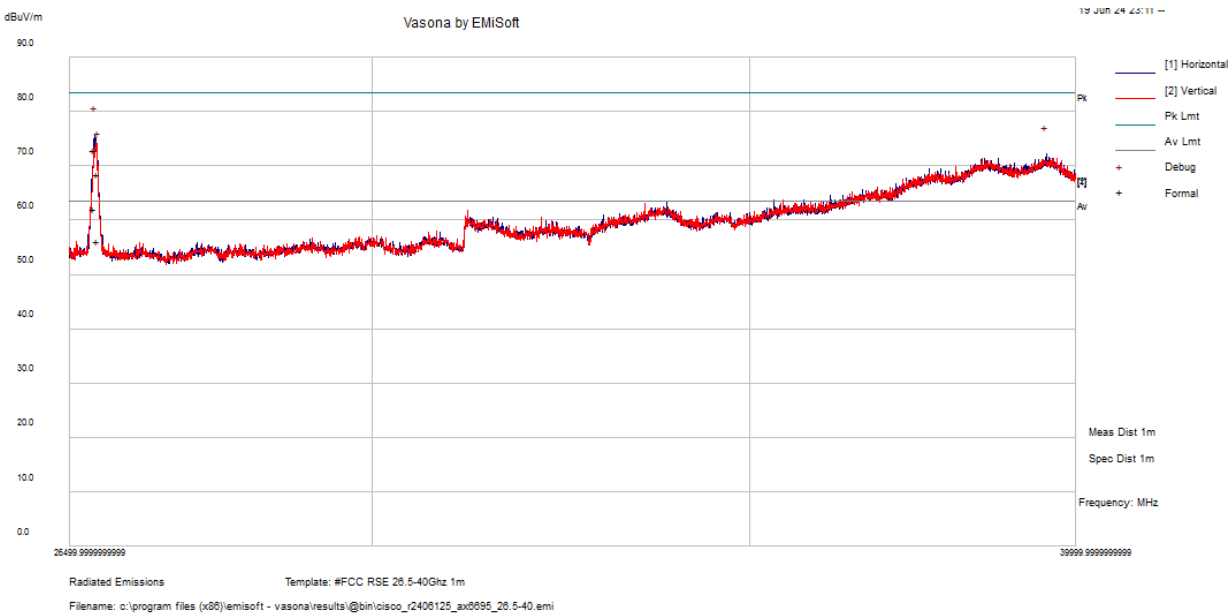
Note: Above plot shows compliance for 26.5-36GHz.

Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
39455.78	49.74	22.27	72.01	200	V	0	83.54	-11.53	Peak
39502.5	39.02	22.27	61.29	200	V	0	63.54	-2.25	Average



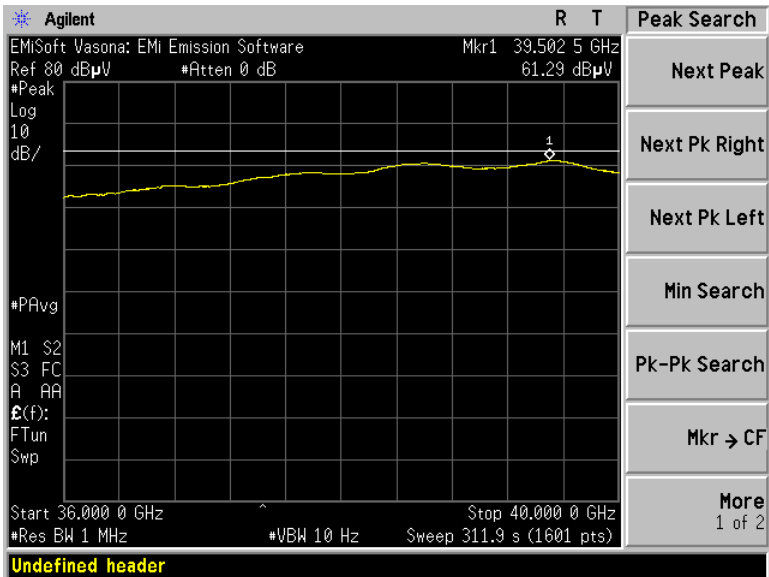
Note: The plot above shows reduced VBW for average measurements compared to average limit, thus the EUT complies with 36-40GHz frequency range average limit requirement.

802.11ax20, 6695MHz



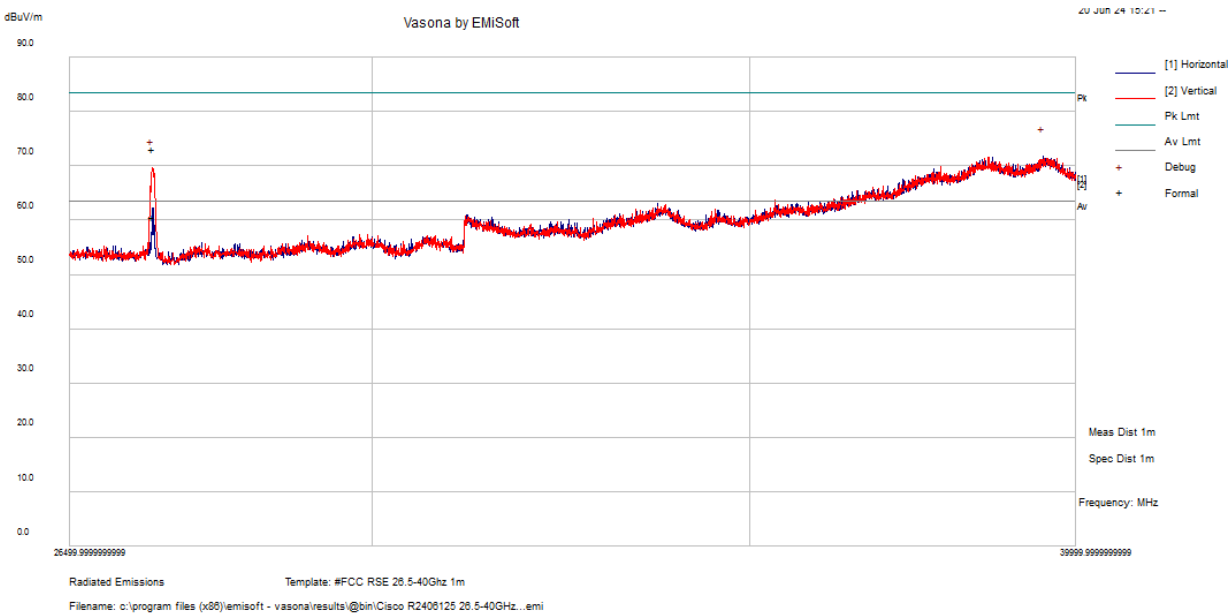
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
26772.49	56.46	16.57	73.03	194	194	87	83.54	-10.51	Peak
26810.45	51.39	17.01	68.4	209	209	258	83.54	-15.14	Peak
26772.49	45.49	16.56	62.05	194	194	87	63.54	-1.49	Average
26810.45	39.04	17.01	56.05	209	209	258	63.54	-7.49	Average

Note: Above plot and table show compliance for 26.5-36GHz.



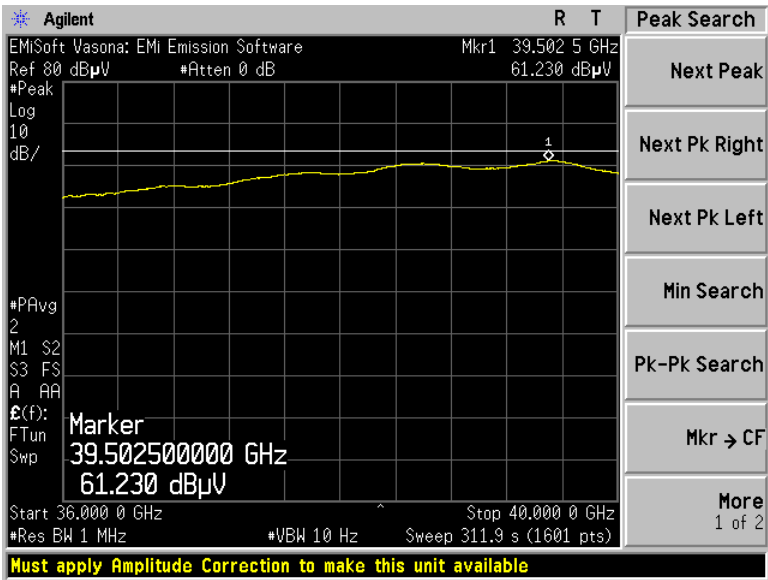
Note: The plot above shows reduced VBW for average measurements compared to average limit, thus the EUT complies with 36-40GHz frequency range average limit requirement.

802.11ax20, 6855MHz



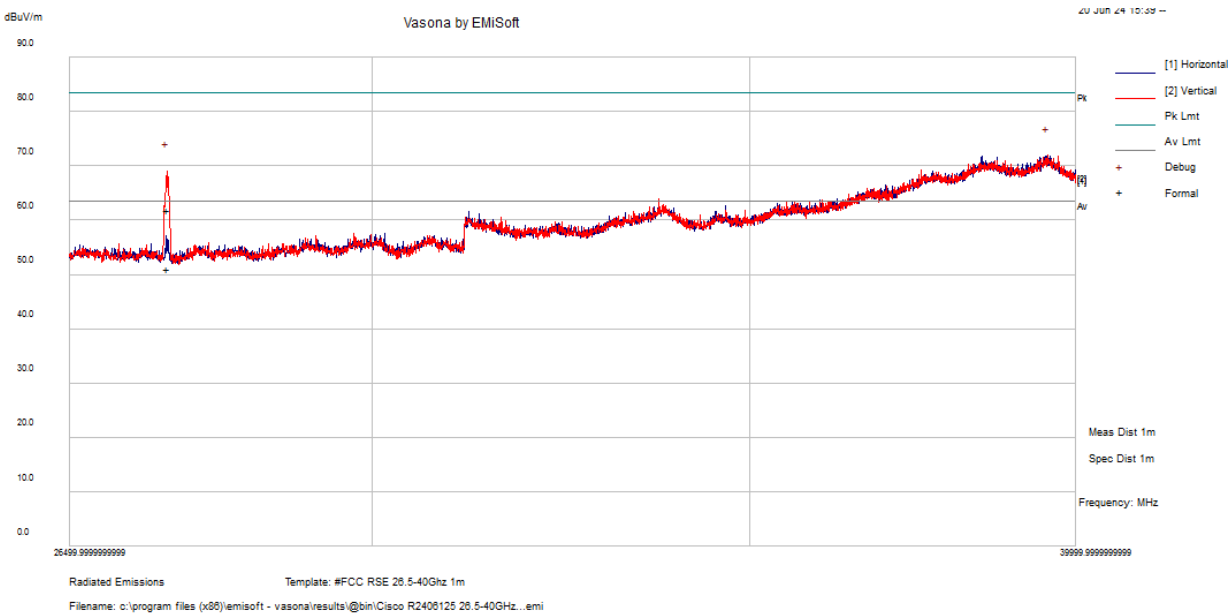
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
27412.6	57.6	15.56	73.16	107	V	184	83.54	-10.38	Peak
27412.6	45.12	15.56	60.68	107	V	184	63.54	-2.87	Average

Note: Above plot and table show compliance for 26.5-36GHz.



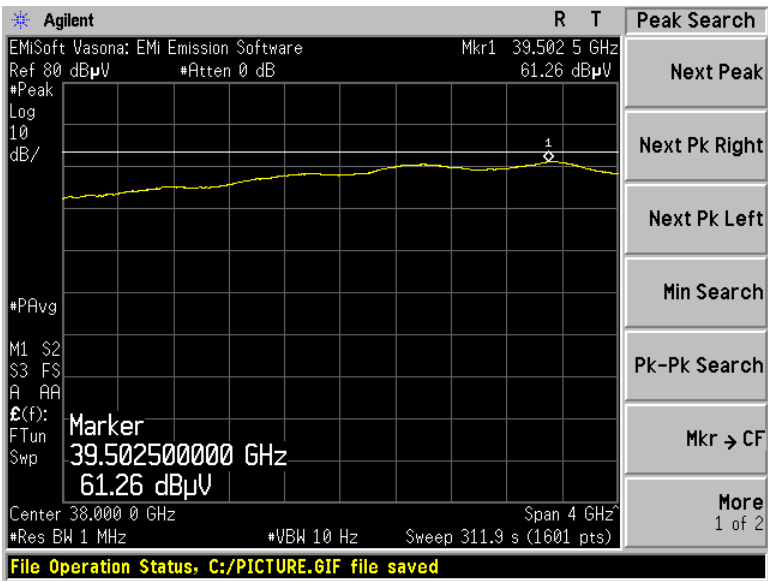
Note: The plot above shows reduced VBW for average measurements compared to average limit, thus the EUT complies with 36-40GHz frequency range average limit requirement.

802.11ax20, 6895MHz



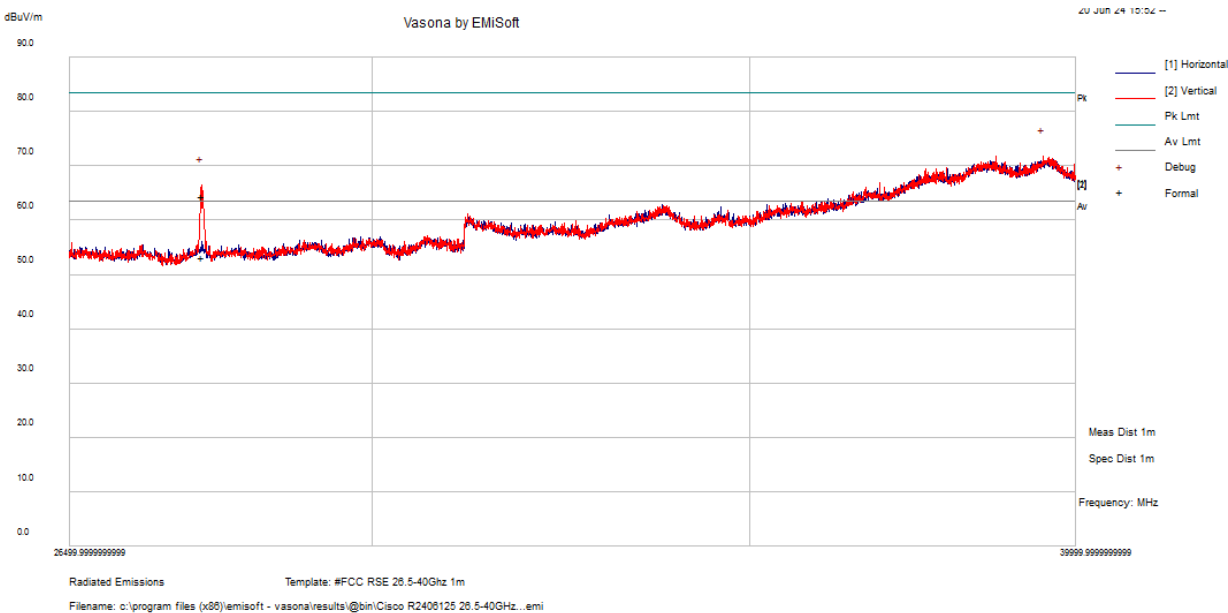
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
27581.42	45.81	16.11	61.92	118	V	40	83.54	-21.62	Peak
27581.42	35.02	16.11	51.13	118	V	40	63.54	-12.41	Average

Note: Above plot and table show compliance for 26.5-36GHz.



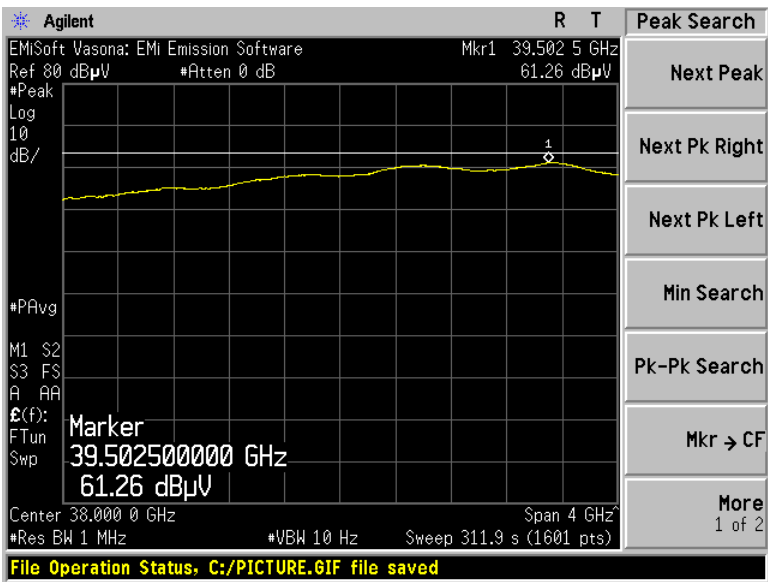
Note: The plot above shows reduced VBW for average measurements compared to average limit, thus the EUT complies with 36-40GHz frequency range average limit requirement.

802.11ax20, 6995MHz



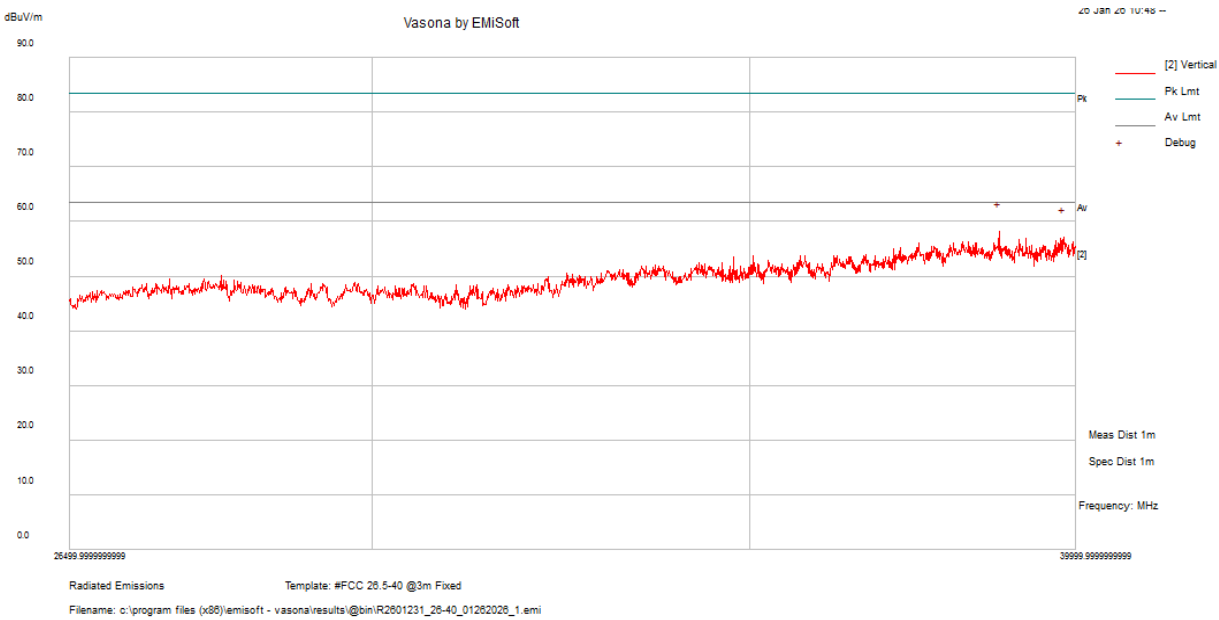
Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBuV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Azimuth (degrees)	Limit (dBuV/m)	Margin (dB)	Detector
27972.8	47.05	17.36	64.41	122	V	110	83.54	-19.13	Peak
27972.8	35.87	17.36	53.23	122	V	110	63.54	-10.3	Average

Note: Above plot and table show compliance for 26.5-36GHz.



Note: The plot above shows reduced VBW for average measurements compared to average limit, thus the EUT complies with 36-40GHz frequency range average limit requirement.

802.11ax20, 7095MHz, Vertical



Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Turntable Azimuth (degrees)	Limit (dBµV/m)	Margin (dB)	Detector
38759.69	38.61	19.69	58.3	150	0	63.54	-5.24	Peak
39797.5	37.21	19.94	57.15	150	0	63.54	-6.39	Peak

Note: Above table and plot show all peak emissions pass under stricter average limit and thus show compliance in range of 26.5-40GHz

dBuV/m

Vasona by EMISoft

20 Jan 20 10:00 --

90.0

80.0

70.0

60.0

50.0

40.0

30.0

20.0

10.0

0.0

20499.999999999999

39999.999999999999

Frequency: MHz

Meas Dist 1m

Spec Dist 1m

Legend:

- [1] Horizontal
- Pk Lmt
- Av Lmt
- Debug

Radiated Emissions

Template: #FCC 20.5-40 @3m Fixed

Filename: c:\program files (x86)\emisoft - vasona\results\@bin\R2601231_26-40_01262026_2.emi

Frequency (MHz)	S.A. Reading (dBuV)	Correction Factor (dB/m)	Corrected Amplitude (dBuV/m)	Antenna Height (cm)	Turntable Azimuth (degrees)	Limit (dBuV/m)	Margin (dB)	Detector
39105.63	37.2	21.11	58.31	150	0	63.54	-5.23	Peak
39848.13	37.29	19.79	57.08	150	0	63.54	-6.46	Peak

Note: Above table and plot show all peak emissions pass under stricter average limit and thus show compliance in range of 26.5-40GHz

5 Appendix A (Normative) – EUT Test Setup Photographs

Please refer to the attachment.

6 Appendix B (Normative) – EUT External Photographs

Please refer to the attachment.

7 Appendix C (Normative) – EUT Internal Photographs

Please refer to the attachment.

8 Appendix D (Normative) – A2LA Electrical Testing Certificate



Accredited Laboratory

A2LA has accredited

BAY AREA COMPLIANCE LABORATORIES CORP.

Sunnyvale, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This laboratory also meets A2LA R222 - Specific Requirements EPA ENERGY STAR Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 13th day of September 2024.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3297.02
Valid to September 30, 2026

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

Please follow the web link below for a full ISO 17025 scope

<https://www.a2la.org/scopepdf/3297-02.pdf>

--- END OF REPORT ---