

Radio Testing of the
Silvus Technologies, Inc.
MIMO Radio
Model: SC42A0EP-235-EB



America

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In accordance with FCC Part 15 Subpart C
§15.247

Silvus Technologies, Inc.
10990 Wilshire Blvd. #1500
Los Angeles, CA 90024 USA

COMMERCIAL-IN-CONFIDENCE

Date: April 2026

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RESPONSIBLE FOR	NAME	TITLE	DATE	SIGNATURE
Authorized Signatory	Ferdinand S. Custodio	Senior EMC Test Engineer / Wireless Team Lead	April 9, 2026	

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

EXECUTIVE SUMMARY

A sample of this product was tested and found to be in compliance with FCC Part 15 Subpart C §15.247



A2LA Cert. No. 2955.13

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REPORT ON	Radio Testing of the Silvus Technologies, Inc. Model: SC42A0EP-235-EB
TEST REPORT NUMBER	721018287C
TEST REPORT DATE	April 2026
PREPARED FOR	Silvus Technologies, Inc. 10990 Wilshire Blvd. #1500 Los Angeles, CA 90024 USA
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APPROVED BY	 Ferdinand S. Custodio Name Authorized Signatory Title: EMC Test Engineer / Wireless Team Lead
DATED	April 9, 2026



Revision History

721018287C Silvus Technologies, Inc. Model: SC42A0EP-235-EB					
DATE	OLD REVISION	NEW REVISION	REASON	PAGES AFFECTED	APPROVED BY
April 9, 2026	—	Initial Release			Ferdinand S. Custodio



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SECTION 1

REPORT SUMMARY

Radio Testing of the
Silvus Technologies, Inc.
SC42A0EP-235-EB



1.1 INTRODUCTION

The information contained in this report is intended to show verification of the SC42A0EP-235-EB MIMO Radio to the requirements of FCC Part 15 Subpart C §15.247.

All tests and results presented in this report were performed on the SC4240EP-235-EB model.

SC42A0EP-235-EB model tested in this test report is representative to all models listed below:

- SC42A0EP-235-BB, SC42A0EP-235F-BB
- SC42A0EP-235-EB, SC42A0EP-235F-EB

Objective	To perform Radio Testing to determine the Equipment Under Test's (EUT's) compliance with the Test Specification, for the series of tests carried out.
Manufacturer	Silvus Technologies, Inc.
Model Number	SC42A0EP-235-EB This test report covers both the EB and BB variants. EB is AC powered while BB is battery powered. Test performed on EB model as worst-case configuration.
Trade Name	StreamCaster
FCC ID	N2S-SC42A-235-1W
FCC Classification	Low power Communications Device Transmitter (DTS)
Serial Number(s)	SC42-63554,C7
Number of Sample Tested	1
Test Specification/Issue/Date	FCC Part 15 Subpart C §15.247 (October 1, 2025)
Start of Test	February 11, 2026
Finish of Test	February 27, 2026
Name of Engineer(s)	Omar Castillo



Related Document(s)

- ANSI C63.10-2020. American National Standard of Procedures for Compliance testing of Unlicensed Wireless Devices.
- RSS-Gen — General Requirements for Compliance of Radio Apparatus Issue 5 with A2 February 2021
- KDB 558074 D01 15.247 v05r02 Guidance for compliance measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices operating under Section 15.247 of the FCC rules.
- KDB 662911 D01 Multiple Transmitter Output v02r01
- TE-P24-008 SC42 SC44C part15 EMC DUT setup procedure.
- SC42xx-235-xx FCC Part15 DUT Test Setup / Operating Procedure.
- Supporting documents for EUT certification are separate exhibits.



1.2 BRIEF SUMMARY OF RESULTS

A brief summary of the tests carried out in accordance with FCC Part 15 Subpart C §15.247 are shown below.

Section	§15.247 Spec Clause	Test Description	Result	Comments/Base Standard
2.1	§15.247(b)(3)	Peak Output Power	Compliant	
2.2	§15.207(a)	Conducted Emissions	Compliant	
2.3	-	99% Emission Bandwidth	Compliant	For reference only / RSS-Gen Clause 6.7
2.4	§15.247(a)(2)	Minimum 6 dB RF Bandwidth	Compliant	
2.5	§15.247(d)	Out-of-Band Emissions - Conducted	Compliant	
2.6	§15.247(d)	Band-edge Compliance of RF Conducted Emissions	Compliant	
2.7	§15.247(d)	Radiated Spurious Emissions	Compliant	
2.8	§15.247(e)	Power Spectral Density for Digitally Modulated Device	Compliant	



1.3 PRODUCT INFORMATION

1.3.1 Technical Description

The Equipment Under Test (EUT) is a Silvus Technologies, Inc. StreamCaster 2x2 MIMO Radio. The EUT operates in 2.4GHz ISM band at 2440MHz with 20MHz BW.

1.3.2 EUT General Description

EUT Description	MIMO Radio
Model Name	StreamCaster
Model Numbers	SC42A0EP-235-EB
Rated Voltage	9-20 VDC
AC/DC Power Supply	120W Single Output Moistureproof Adaptor Manufacturer: Mean Well Model: OWA-120U-12
Mode Verified	2.4GHz ISM (2440 MHz @ 20MHz BW)
Capability	2.4GHz ISM (2440 MHz @ 20MHz BW)
Rated Power (Declared by manufacturer)	1 Watt (total EIRP)
Hardware	SC4200P Rev C7
Firmware	Streamscape_v5.0.0.4
Primary Unit (EUT)	☒ Production ☐ Pre-Production ☐ Engineering (same as Production)
Antenna Type	Dual-Band Omni Antenna, Half Wave Dipole
Manufacturer	Southwest Antennas
Antenna Model	Part # 1001-071 (AOV2D230515G-TM)
Antenna Gain	2.15 dBi

1.3.3 Maximum Conducted Output Power

Configuration	Frequency Range (MHz)	Gated RMS total (dBm)	Duty Cycle (%)
2x2 MIMO	2440 MHz	26.768	97.362



1.4 EUT TEST CONFIGURATION

1.4.1 Test Configuration Description

Test Configuration	Description
A	Antenna Conducted Port test setup. The EUT was connected to a support laptop where the EUT GUI was accessed using a web browser. The GUI will enable switching the EUT to Diagnostic mode. PuTTY was used to put the EUT in continuous TX mode (20dBm/chain, 2440MHz @ 20MHz BW). Setting on EUT: Parameters on EUT (configured on Putty): SC4022_tx_ofdm_wb -b 20 – f 2440 -g 34,35
B	Cabinet Spurious Emissions test setup. Identical configuration as above with the antenna ports terminated with 50Ω load. Parameters on EUT (configured on Putty): SC4022_tx_ofdm_wb -b 20 – f 2440 -g 34,35

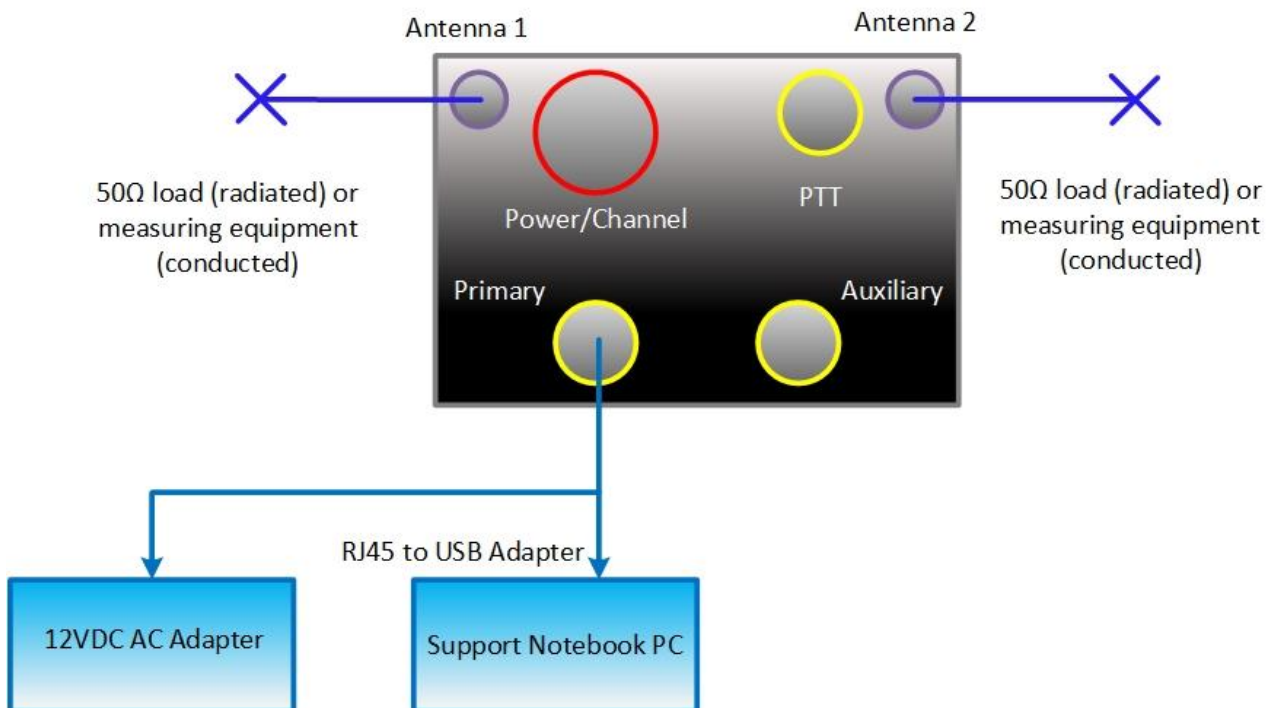
1.4.2 EUT Exercise Software

PuTTY for Windows Release 0.83

1.4.3 Support Equipment and I/O cables

Manufacturer	Equipment/Cable	Description
HP	Support Laptop	Model: 14-ds0020nr SN: 5CD44250CP
HP	AC/DC Adapter	Model: L25296-002
Anker	USB-Ethernet Dongle	USB 3.0 to Gigabit Ethernet Adapter Model: A7611
-	Adapter	TNC-SMA adapter
Pasternack	TNC Terminator	PE6104
Silvus	Regular Primary Cable	SC-PRICBL-M-6H

1.4.1 Simplified Test Configuration Diagram





1.5 DEVIATIONS FROM THE STANDARD

No deviations from the applicable test standards or test plan were made during testing.

1.6 MODIFICATION RECORD

Description of Modification	Modification Fitted By	Date Modification Fitted
Serial Number: No modifications		
N/A	-	-

The table above details modifications made to the EUT during the test programme. The modifications incorporated during each test (if relevant) are recorded on the appropriate test pages.

1.7 TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

For conducted and radiated emissions, the equipment under test (EUT) was configured to measure its highest possible emission level. This level was based on the maximized cable configuration from exploratory testing per ANSI C63.10-2013. The test modes were adapted according to the Operating Instructions provided by the manufacturer/client.

1.8 TEST FACILITY LOCATION

1.8.1 TÜV SÜD America Inc. (Mira Mesa)

10040 Mesa Rim Road, San Diego, CA 92121-2912 (32.901268,-117.177681). Phone: (858) 678-1400 FAX: (858) 546-0364

1.8.2 TÜV SÜD America Inc. (Rancho Bernardo)

16936 Via Del Campo, San Diego, CA 92127-1708 (33.018644,-117.092409). Phone: (858) 678-1400 FAX: (858) 546-0364.

1.9 TEST FACILITY REGISTRATION

1.9.1 FCC – Designation No.: US1146

TÜV SÜD America Inc. (San Diego), is an accredited test facility with the site description report on file and has met all the requirements specified in §2.948 of the FCC rules. The acceptance letter from the FCC is maintained in our files and the Designation is US1146.



1.9.2 Innovation, Science and Economic Development Canada (ISED) Registration No.: 3067A-1 & 22806-1

The 10m Semi-anechoic chamber of TÜV SÜD America Inc. (San Diego Rancho Bernardo) has been registered by Certification and Engineering Bureau of Innovation, Science and Economic Development Canada for radio equipment testing with Registration No. 3067A-1.

The 3m Semi-anechoic chamber of TÜV SÜD America Inc. (San Diego Mira Mesa) has been registered by Certification and Engineering Bureau of Innovation, Science and Economic Development Canada for radio equipment testing with Registration No. 22806-1.

1.9.3 BSMI – Laboratory Code: SL2-IN-E-028R (US0102)

TÜV Product Service Inc. (San Diego) is a recognized EMC testing laboratory by the BSMI under the MRA (Mutual Recognition Arrangement) with the United States. Accreditation includes CNS 13438 up to 6GHz.

1.9.4 NCC (National Communications Commission - US0102)

TÜV SÜD America Inc. (San Diego) is listed as a Foreign Recognized Telecommunication Equipment Testing Laboratory and is accredited to ISO/IEC 17025 (A2LA Certificate No.2955.13) which under APEC TEL MRA Phase 1 was designated as a Conformity Assessment Body competent to perform testing of equipment subject to the Technical Regulations covered under its scope of accreditation including RTTE01, PLMN01 and PLMN08 for TTE type of testing and LP0002 for Low-Power RF Device type of testing.

1.9.5 VCCI – Registration No. A-0412 and A-0413

TÜV SÜD America Inc. (San Diego) is a VCCI registered measurement facility which includes radiated field strength measurement, radiated field strength measurement above 1GHz, mains port interference measurement and telecommunication port interference measurement.

1.9.6 RRA – Identification No. US0102

TÜV SÜD America Inc. (San Diego) is National Radio Research Agency (RRA) recognized laboratory under Phase I of the APEC Tel MRA.

1.9.7 OFCA – U.S. Identification No. US0102

TÜV SÜD America Inc. (San Diego) is recognized by Office of the Communications Authority (OFCA) under Appendix B, Phase I of the APEC Tel MRA.



SECTION 2

TEST DETAILS

Radio Testing of the
Silvus Technologies, Inc.
SC42A0EP-235-EB



2.1 PEAK OUTPUT POWER

2.1.1 Specification Reference

FCC 47 CFR Part 15, Clause 15.247(b)(3)

2.1.2 Standard Applicable

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands, the maximum peak conducted output shall not exceed 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

2.1.3 Equipment Under Test and Modification State

Serial No: SC42-63554,C7 / Test Configuration A

2.1.4 Date of Test/Initial of test personnel who performed the test

February 19, 2026 / OC

2.1.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.1.6 Environmental Conditions (Rancho Bernardo Satellite Facility)

Ambient Temperature	24.2 °C
Relative Humidity	38.6 %
ATM Pressure	99.1 kPa

2.1.7 Additional Observations

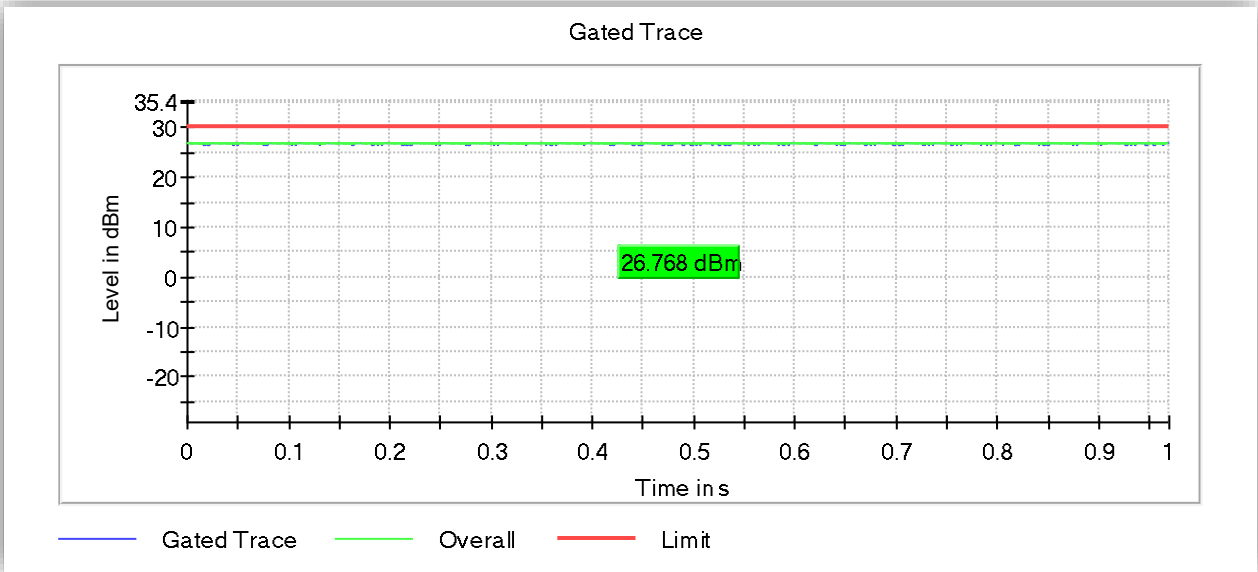
- This is a conducted test using direct connection to the TS8997 Test System.
- Both chains are measured at the same time. Measured power is the total for both RF chains.
- The path loss was all accounted for with the test system calibration.
- Test methodology is per FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05 and ANSI C63.10-2020 11.9.2.3.2.



2.1.8 Test Results

DUT Frequency (MHz)	Configuration	Gated RMS* (dBm)	Limit Max (dBm)	DutyCycle (%)	Result
2440.000000	2x2 MIMO	26.768	30	97.362	Pass
Calculated Gated RMS per chain is 23.768 dBm					

2.1.9 Test Plots



2440 MHz

2.1.10 Power Meter Settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s



2.2 AC CONDUCTED EMISSIONS

2.2.1 Specification Reference

FCC 47 CFR Part 15, Clause 15.207(a)

2.2.2 Standard Applicable

An intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

*Decreases with the logarithm of the frequency.

2.2.3 Equipment Under Test and Modification State

Serial No: SC42-63554,C7 / Test Configuration B

2.2.4 Date of Test/Initial of test personnel who performed the test

February 11, 2026 / OC

2.2.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.2.6 Environmental Conditions (Rancho Bernardo Satellite Facility)

Ambient Temperature 21.0 °C
Relative Humidity 24.1 %
ATM Pressure 99.0 kPa

2.2.7 Additional Observations

Measurement was done using EMC32 v11.70.00 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only. See Section 2.2.8 for sample computation.



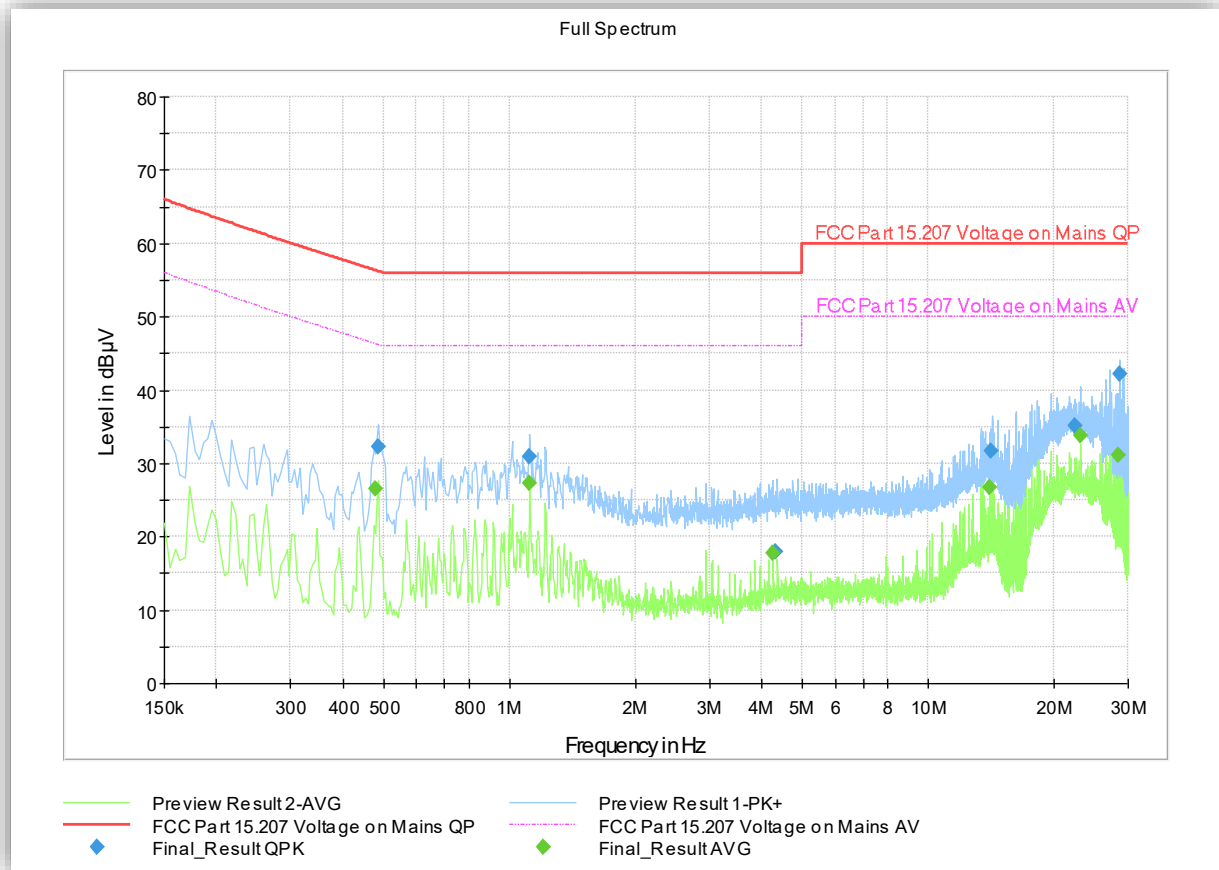
2.2.8 Sample Computation (Conducted Emission – Quasi Peak)

Measuring equipment raw measurement (db μ V) @ 150kHz			5.5
Correction Factor (dB)	Asset# 8607 (20 dB attenuator)	19.9	20.7
	Asset# 1177 (cable)	0.15	
	Asset# 1176 (cable)	0.35	
	Asset# 7568 (LISN)	0.30	
Reported QuasiPeak Final Measurement (db μ V) @ 150kHz			26.2

2.2.9 Test Results

Compliant. See attached plots and tables.

2.2.10 TX Mode (120V-60Hz- OWA-120U-12AC/DC Adapter) Line 1



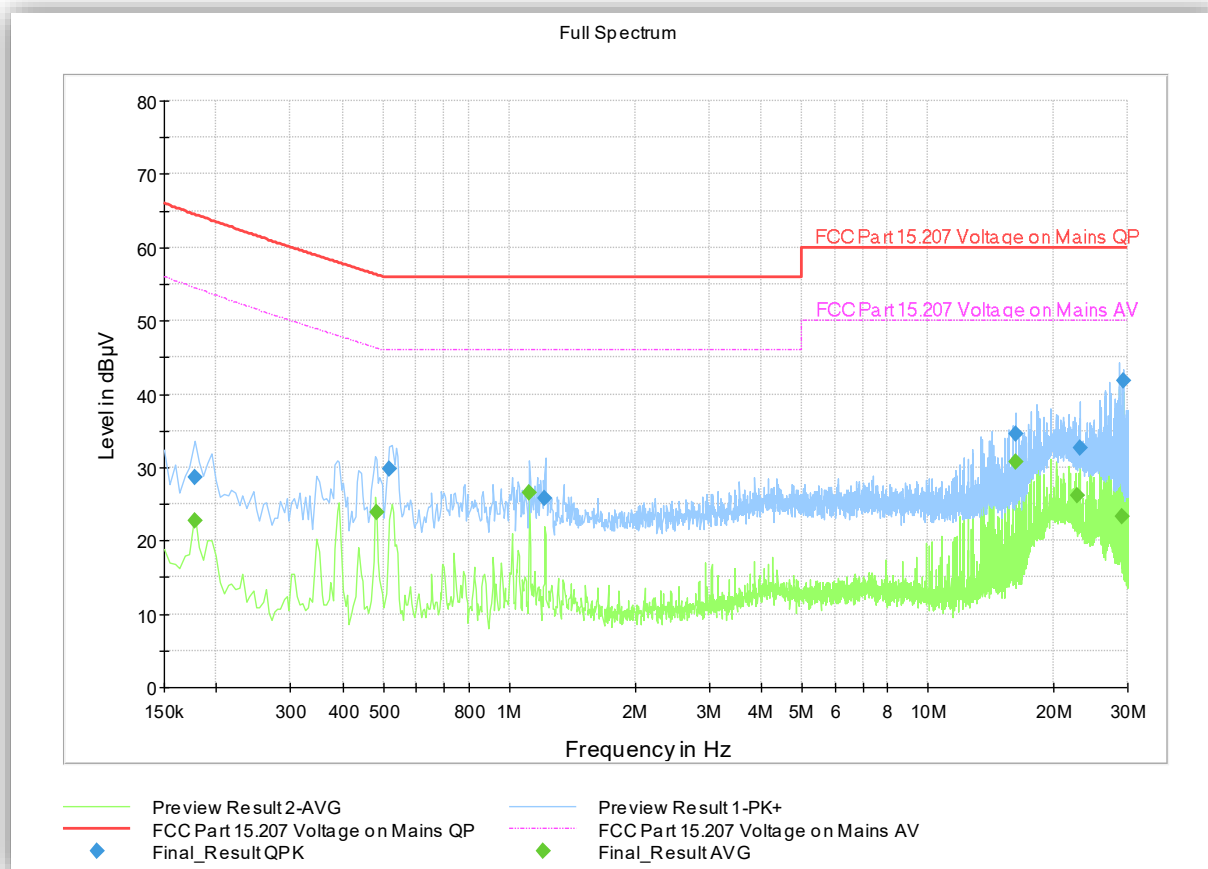
Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.487500	32.22	56.19	23.97	5000.0	9.000	L1	OFF	20.2
1.117500	30.94	56.00	25.06	5000.0	9.000	L1	OFF	20.2
4.308000	17.87	56.00	38.13	5000.0	9.000	L1	OFF	20.3
14.149500	31.75	60.00	28.25	5000.0	9.000	L1	OFF	20.8
22.456500	35.22	60.00	24.78	5000.0	9.000	L1	OFF	20.4
28.684500	42.28	60.00	17.72	5000.0	9.000	L1	OFF	20.4

Average Data

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.478500	26.45	46.33	19.89	5000.0	9.000	L1	OFF	20.2
1.117500	27.24	46.00	18.76	5000.0	9.000	L1	OFF	20.2
4.263000	17.74	46.00	28.26	5000.0	9.000	L1	OFF	20.3
14.028000	26.71	50.00	23.29	5000.0	9.000	L1	OFF	20.8
23.127000	33.70	50.00	16.30	5000.0	9.000	L1	OFF	20.4
28.378500	31.03	50.00	18.97	5000.0	9.000	L1	OFF	20.4

2.2.11 TX Mode (120V-60Hz OWA-120U-12 AC/DC Adapter) Neutral



Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.177000	28.70	64.53	35.82	5000.0	9.000	N	OFF	20.1
0.519000	29.77	56.00	26.23	5000.0	9.000	N	OFF	20.2
1.216500	25.70	56.00	30.30	5000.0	9.000	N	OFF	20.3
16.165500	34.50	60.00	25.50	5000.0	9.000	N	OFF	20.4
23.068500	32.74	60.00	27.26	5000.0	9.000	N	OFF	20.5
29.233500	41.75	60.00	18.25	5000.0	9.000	N	OFF	20.4

Average Data

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.177000	22.63	54.51	31.88	5000.0	9.000	N	OFF	20.1
0.483000	23.93	46.26	22.33	5000.0	9.000	N	OFF	20.2
1.117500	26.47	46.00	19.53	5000.0	9.000	N	OFF	20.3
16.165500	30.68	50.00	19.32	5000.0	9.000	N	OFF	20.4
22.821000	26.14	50.00	23.86	5000.0	9.000	N	OFF	20.5
29.022000	23.22	50.00	26.78	5000.0	9.000	N	OFF	20.4



2.3 99% EMISSION BANDWIDTH

2.3.1 Specification Reference

RSS-Gen Clause 6.7

2.3.2 Standard Applicable

The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth. When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth, as calculated or measured.

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

Note: Video averaging is not permitted.

A peak, or peak hold, may be used in place of the sampling detector as this may produce a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold may be necessary to determine the occupied bandwidth if the device is not transmitting continuously.

The trace data points are recovered and are directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded.

The difference between the two recorded frequencies is the 99% occupied bandwidth.

2.3.3 Equipment Under Test and Modification State

Serial No: SC42-63554,C7 / Test Configuration A

2.3.4 Date of Test/Initial of test personnel who performed the test

February 19, 2026 / OC

2.3.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.3.6 Environmental Conditions (Rancho Bernardo Satellite Facility)

Ambient Temperature	24.2 °C
Relative Humidity	38.6 %
ATM Pressure	99.1 kPa

2.3.7 Additional Observations

- This is a conducted test using direct connection to the TS8997 Test System.
- The path loss was all accounted for with the test system calibration.
- Only the worst-case RF chain BW presented.
- Test methodology is per Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05 and ANSI C63.10-2020 11.8.1.

2.3.8 Sample Measurement Settings

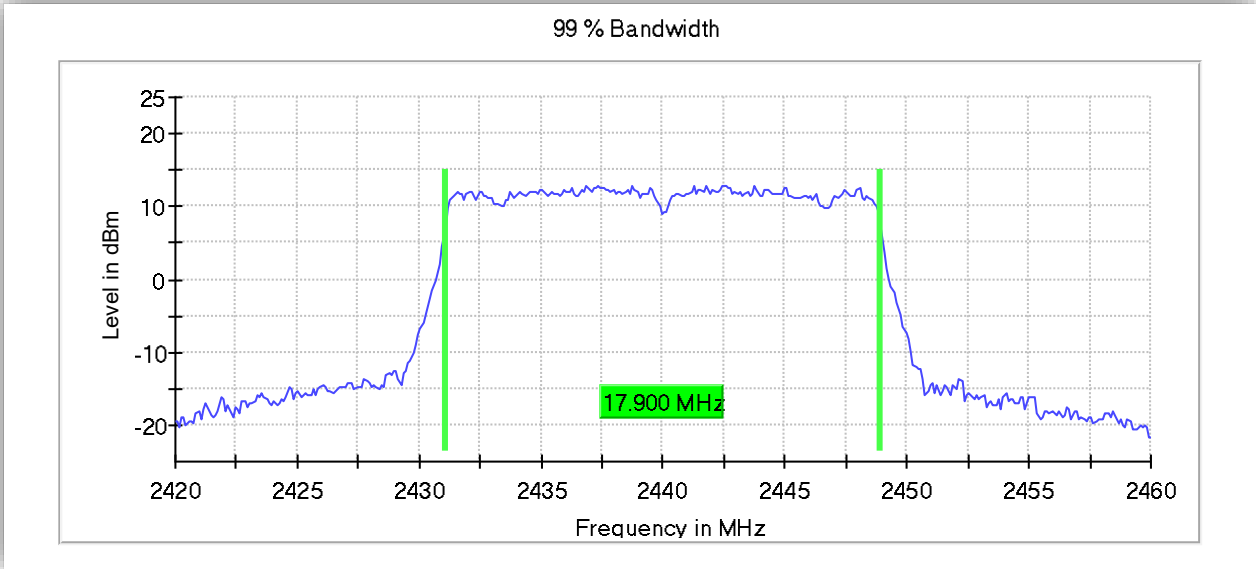
Setting	Instrument Value	Target Value
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	55 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.22 dB	0.30 dB

2.3.9 Test Results

DUT Frequency (MHz)	Configuration	99% Bandwidth	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
2440.000000	2x2 MIMO	17.900000	2431.050000	2448.950000	Pass



2.3.10 Test Plots



2440 MHz



2.4 MINIMUM 6 DB RF BANDWIDTH

2.4.1 Specification Reference

FCC 47 CFR Part 15, Clause 15.247(a)(2)

2.4.2 Standard Applicable

(2) Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

2.4.3 Equipment Under Test and Modification State

Serial No: SC42-63554,C7 / Test Configuration A

2.4.4 Date of Test/Initial of test personnel who performed the test

February 19, 2026 / OC

2.4.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.4.6 Environmental Conditions (Rancho Bernardo Satellite Facility)

Ambient Temperature	24.2 °C
Relative Humidity	38.6 %
ATM Pressure	99.1 kPa

2.4.7 Additional Observations

- This is a conducted test using direct connection to the TS8997 Test System.
- The path loss was all accounted for with the test system calibration.
- Test methodology is per FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05 and ANSI C63.10-2020 11.8.1.

2.4.8 Sample Measurement Settings

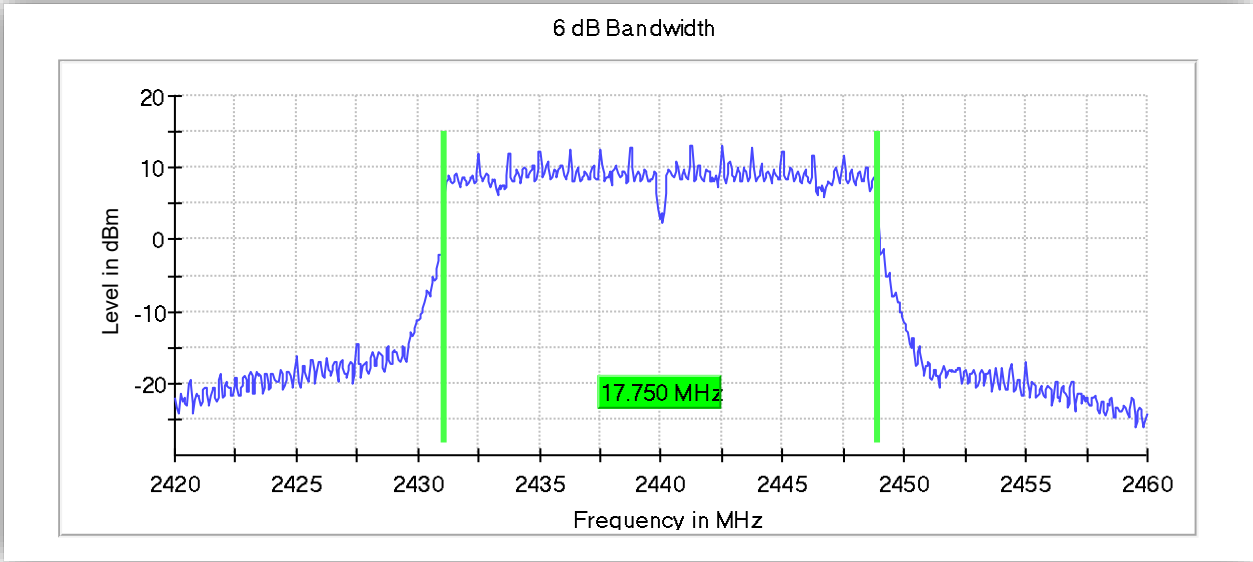
Setting	Instrument Value	Target Value
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
SweepTime	56.836 μ s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	63 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.38 dB	0.50 dB

2.4.9 Test Results

DUT Frequency (MHz)	Configuration	Limit Min (MHz)	Bandwidth (MHz)	Result
2440.000000	2x2 MIMO	0.500000	17.750000	Pass



2.4.10 Test Plots



2440 MHz



2.5 OUT-OF-BAND EMISSIONS - CONDUCTED

2.5.1 Specification Reference

FCC 47 CFR Part 15, Clause 15.247(d)

2.5.2 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

2.5.3 Equipment Under Test and Modification State

Serial No: SC42-63554,C7 / Test Configuration A

2.5.4 Date of Test/Initial of test personnel who performed the test

February 19, 23 and 24, 2026 / OC

2.5.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

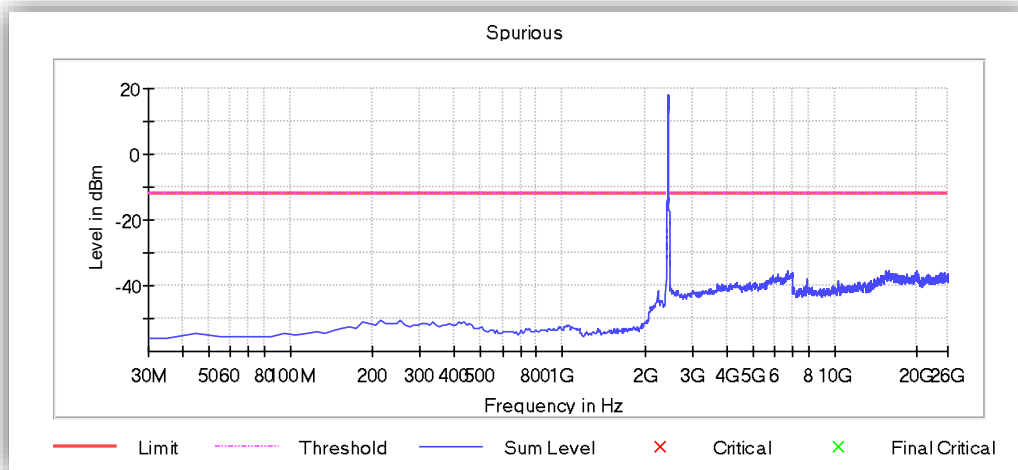
2.5.6 Environmental Conditions (Rancho Bernardo Satellite Facility)

Ambient Temperature	24.2 °C
Relative Humidity	38.6 %
ATM Pressure	99.1 kPa

2.5.7 Additional Observations

- This is a conducted test using a spectrum analyser and the TS8997 Test System.
- The path loss was all accounted for using a transducer factor (TDF).
- Test methodology is per FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05 and ANSI C63.10-2020 11.11.2 & 11.11.3.
- For §15.247(d) requirement, no emissions observed within the measurement threshold during prescan, further verification is not required. All RF chains are verified at the same time and the sum presented as "Sum Level"
- Both §15.205 and §15.247(d) requirements verified.
- For 15.205 test, the limits of §15.209 were converted to EIRP using the formula from Clause 11.12.2.2(d) of ANSI C63.10-2020. Appropriate antenna gain is programmed as Offset for §15.205 verification.
- The ground-reflector factor, antenna gain, and the additional antenna used for the MIMO configuration were incorporated as an offset.
- For the §15.205 testing in the 9 kHz to 30 MHz range, a 10 kHz resolution bandwidth and a peak detector were used to capture the worst-case emissions
- For the §15.205 testing in the 30 MHz to 1 GHz range, peak detector was used to capture the worst-case emissions; a 2.4 GHz notch filter was utilized to avoid overloading the Spectrum Analyzer.
- For 30MHz to 1GHz frequency range, the results over the limit (peak detector vs Quasi Peak limits) that fall in the restricted bands were verified with EMI receiver with CISPR Quasi Peak detector.
- For the §15.205 testing in the 1 GHz to 25 GHz range against the average limits, RMS detector was used and the trace was averaged over 100 sweeps.

2.5.8 Test Results Plots (§15.247 (d) requirements)



2440 MHz

Inband Peak

Frequency (MHz)	Level (dBm)
2435.962871	17.9

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	Pass

No emissions found above the limits during pre-measurements within 6dB or less from limit

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
15880.809074	-35.4	23.3	-12.1
6706.075967	-35.5	23.4	-12.1
15331.124628	-35.5	23.4	-12.1
15341.118891	-35.6	23.6	-12.1
19878.514131	-35.6	23.6	-12.1
15900.797599	-35.8	23.7	-12.1
15750.883659	-35.9	23.9	-12.1
15860.820548	-35.9	23.9	-12.1
15790.860710	-35.9	23.9	-12.1
15541.004144	-36.0	23.9	-12.1
25175.473332	-36.0	23.9	-12.1
15371.101679	-36.0	23.9	-12.1
6995.909584	-36.0	23.9	-12.1
15511.021356	-36.0	23.9	-12.1
15461.050042	-36.0	24.0	-12.1

2.5.9 Sample Measurement Settings (§15.247 (d) requirements)

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	0.000 dBm	-30.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

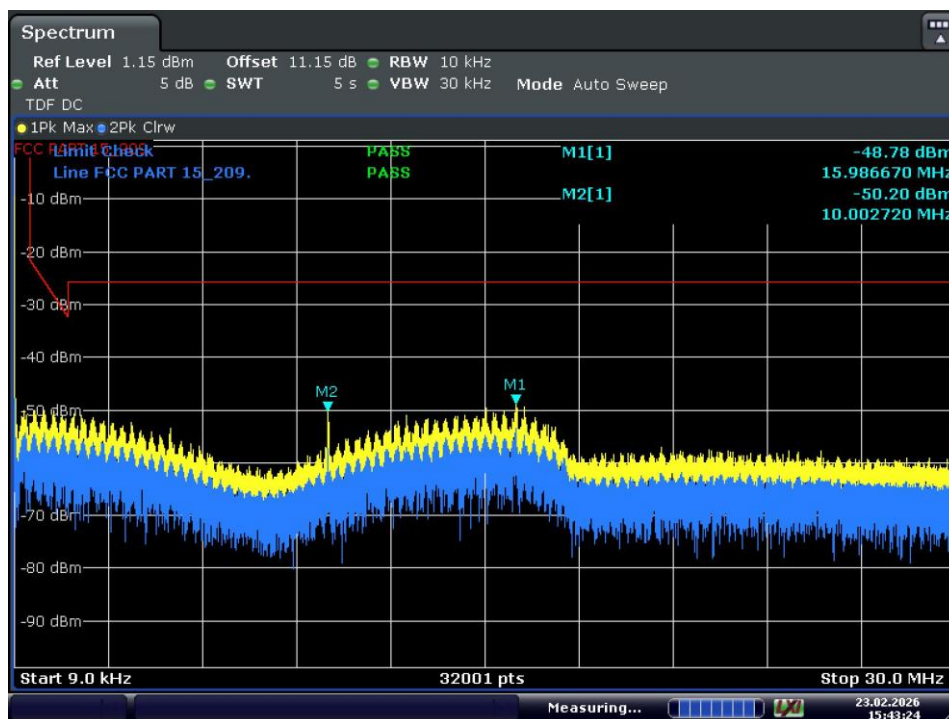
2.5.10 Test Results / Plots (§15.205 requirements)

Procedure used is per Clause 11.12.2 Antenna-port conducted measurements for Emissions in restricted frequency bands (Clause 11.12) of ANSI C63.10-2020 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

Sample Calculation:

9.85dB offset for the range 30MHz to 1GHz

$$\begin{aligned}
 \text{SA offset} &= \text{Antenna Gain} + \text{maximum ground reflection factor} + 10\log(N_{\text{ant}}) \\
 &= 2.15 \text{ dBi} + 4.7 \text{ dB} + 10\log(2) \\
 &= 9.85 \text{ dB}
 \end{aligned}$$



Date: 23.FEB.2026 15:43:24

9kHz to 30MHz



Date: 24.FEB.2026 20:05:15

30MHz to 1GHz

Note: Results over the limit (peak detector vs Quasi Peak limits) that fall in the restricted bands were verified with EMI receiver with CISPR Quasi Peak detector



Date: 24.FEB.2026 22:12:31

30.655MHz

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
30.655	-67.89	10.51	-57.38	Pass



Date: 24.FEB.2026 22:13:16

172.801 MHz

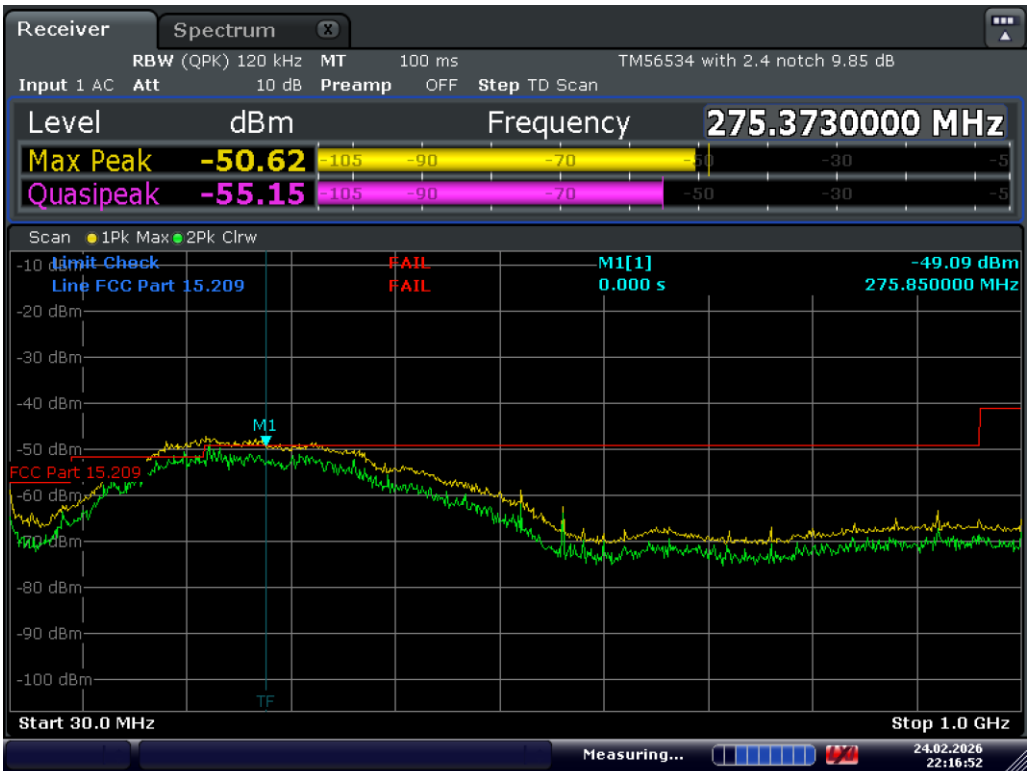
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
172.801	-56.66	7.43	-49.23	Pass



Date: 24.FEB.2026 22:16:04

243.220 MHz

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
243.220	-55.15	5.92	-49.23	Pass



Date: 24.FEB.2026 22:16:52

275.373 MHz

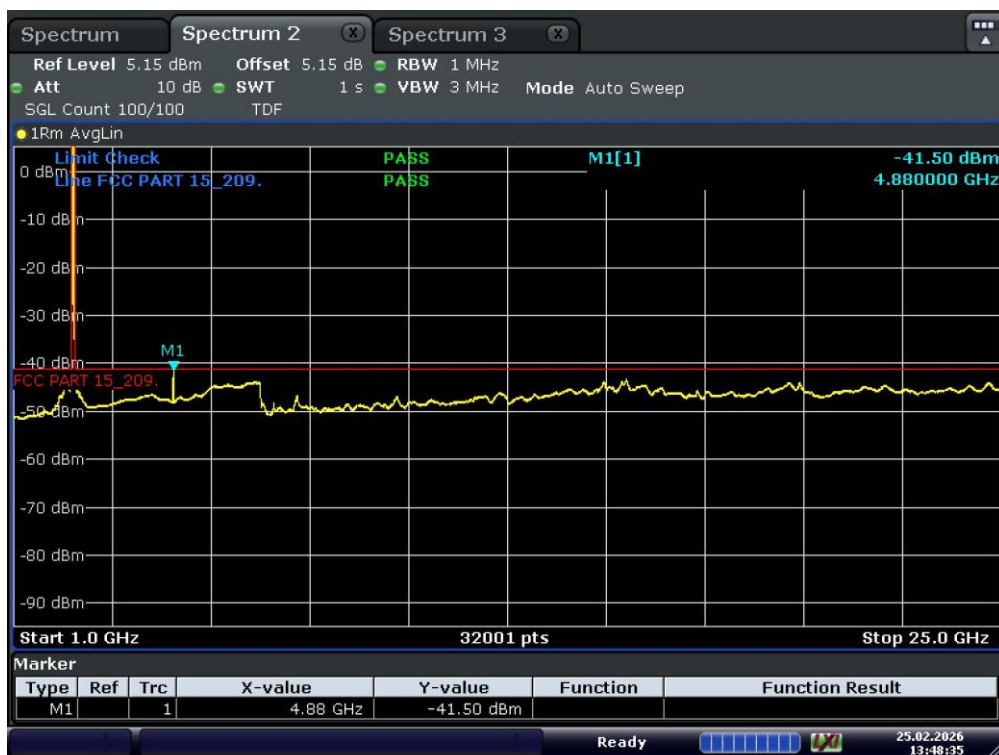
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
275.373	-55.15	5.92	-49.23	Pass



Date: 24.FEB.2026 22:18:39

325.132 MHz

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
325.132	-55.69	6.46	-49.23	Pass



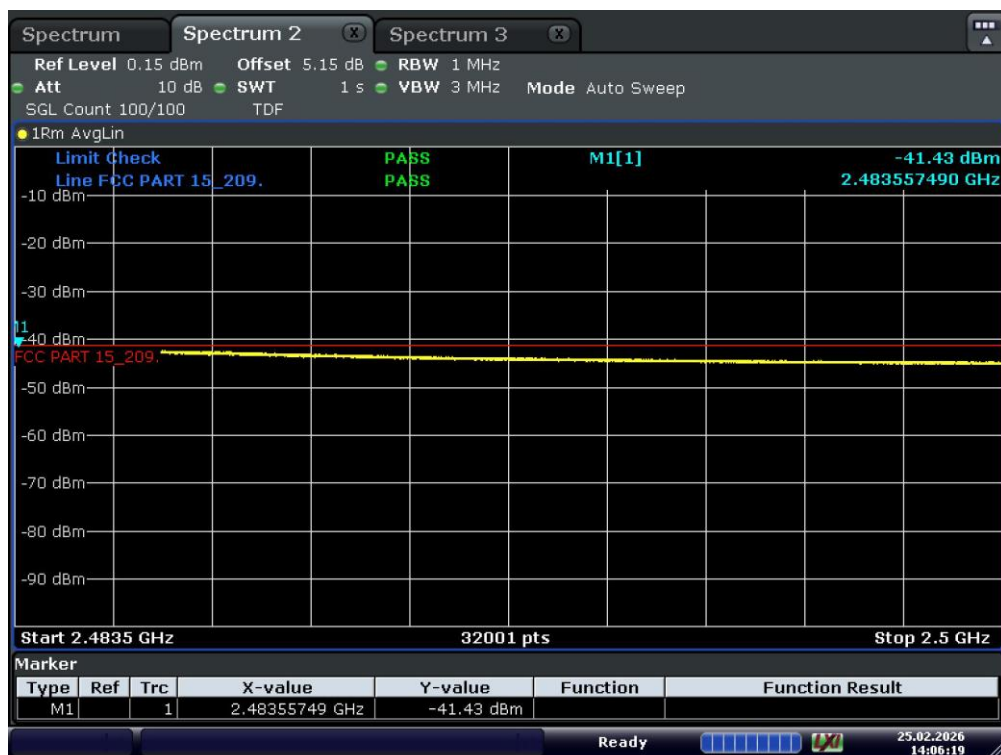
Date: 25.FEB.2026 13:48:36

1GHz to 25GHz – Average



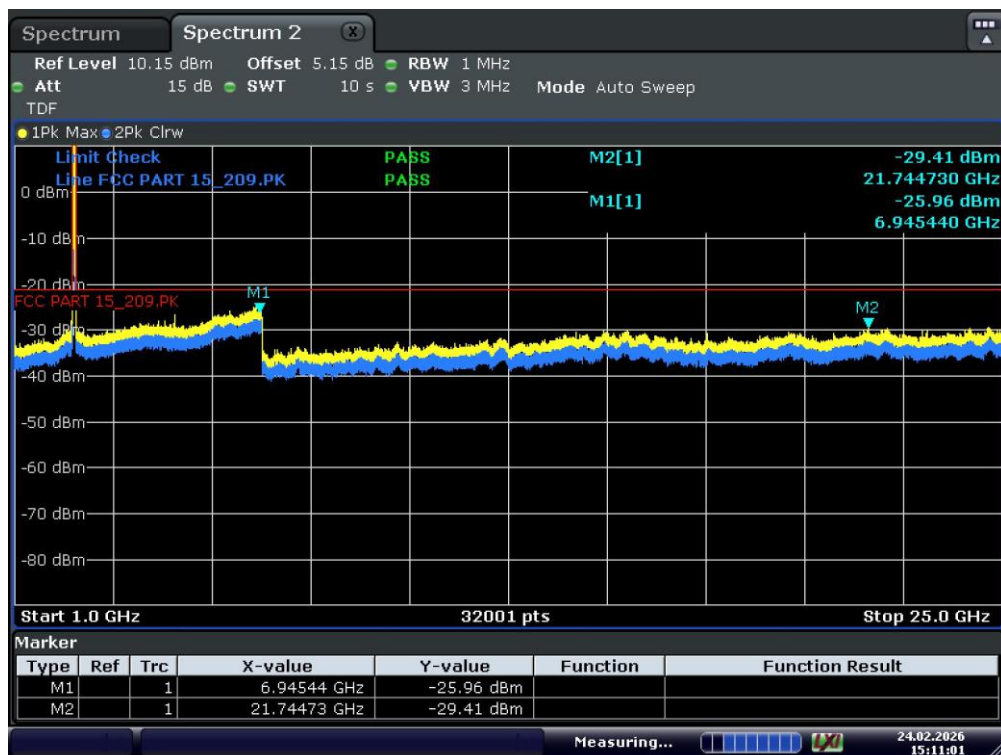
Date: 25.FEB.2026 13:55:57

2310MHz to 2390MHz – Average (Band Edge for 15.209 per ANSI C63.10-2020 Clause 11.12.2



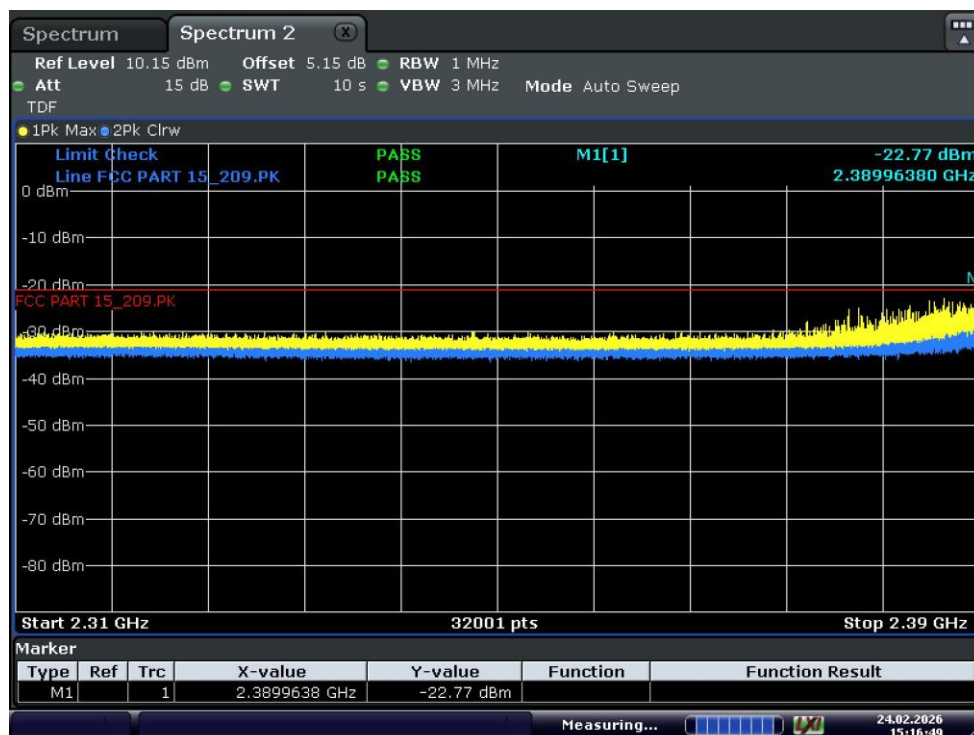
Date: 25.FEB.2026 14:06:20

2483.5MHz to 2500MHz – Average (Band Edge for 15.209 per ANSI C63.10-2020 Clause 11.12.2)



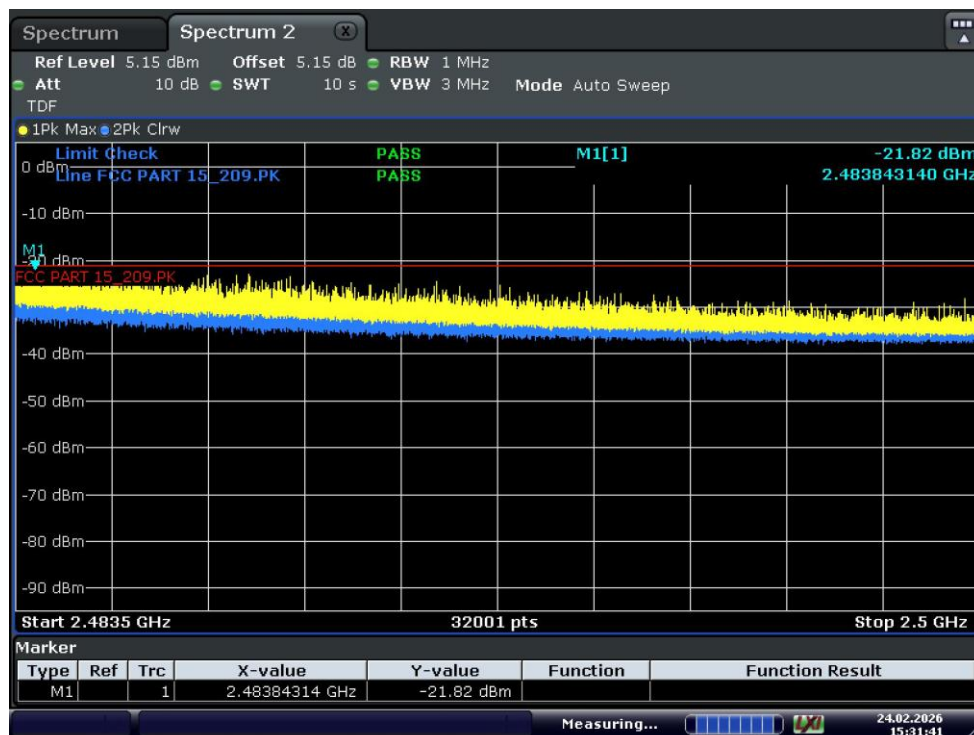
Date: 24.FEB.2026 15:11:01

1GHz to 25GHz – Peak



Date: 24.FEB.2026 15:16:49

2310MHz to 2390MHz – Peak (Band Edge for 15.209 per ANSI C63.10-2020 Clause 11.12.2)



Date: 24.FEB.2026 15:31:42

2483.5MHz to 2500MHz – Peak (Band Edge for 15.209 per ANSI C63.10-2020 Clause 11.12.2)



2.6 BAND-EDGE COMPLIANCE OF RF CONDUCTED EMISSIONS

2.6.1 Specification Reference

FCC 47 CFR Part 15, Clause 15.247(d)
FCC 47 CFR Part 15, Clause 15.205

2.6.2 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

2.6.3 Equipment Under Test and Modification State

Serial No: SC42-63554,C7 / Test Configuration A

2.6.4 Date of Test/Initial of test personnel who performed the test

February 19, 2026 / OC

2.6.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.6.6 Environmental Conditions (Rancho Bernardo Satellite Facility)

Ambient Temperature	24.2 °C
Relative Humidity	38.6 %
ATM Pressure	99.1 kPa

2.6.7 Additional Observations

- This is a conducted test using direct connection to the Spectrum Analyzer being controlled by the TS8997 Test System.
- The path loss was all accounted for with the test system calibration.
- Test methodology is per FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05 8.7 and ANSI C63.10-2020.

2.6.8 Sample Measurement Settings

Measurement 1		
Setting	Instrument Value	Target Value
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
SweepTime	113.672 μ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Measurement 2		
Setting	Instrument Value	Target Value
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
SweepTime	94.727 μ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	73 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.33 dB	0.50 dB



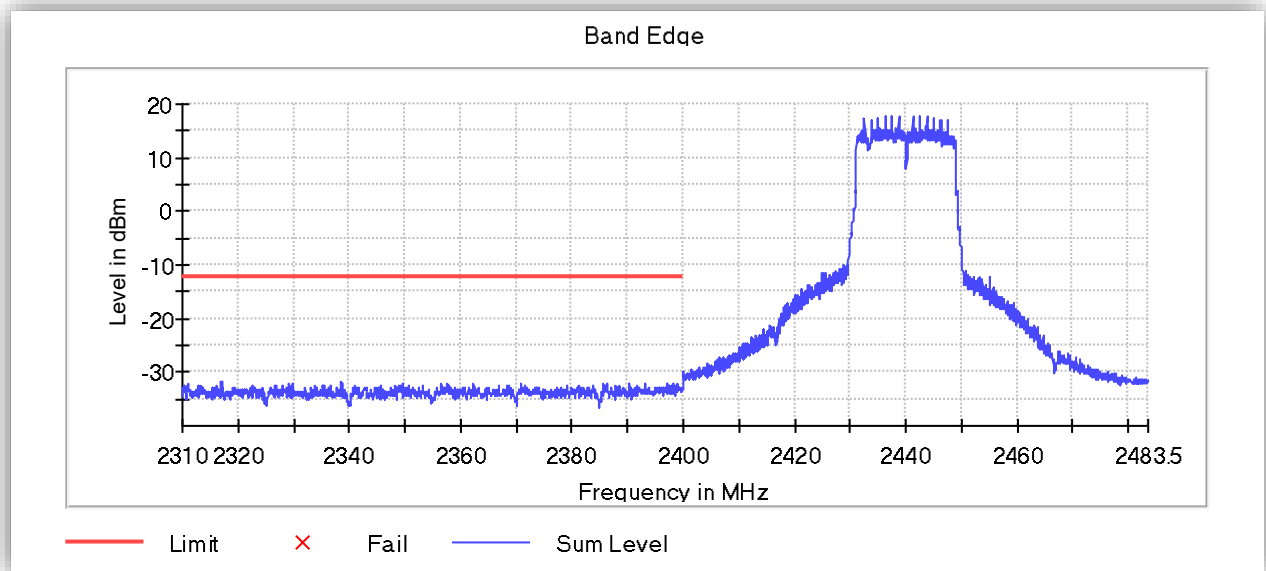
2.6.9 Test Results (Lower Band Edge)

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.975000	-31.6	19.4	-12.2	Pass
2338.575000	-31.6	19.4	-12.2	Pass
2317.025000	-31.8	19.6	-12.2	Pass
2316.975000	-31.9	19.7	-12.2	Pass
2385.675000	-32.0	19.8	-12.2	Pass
2356.575000	-32.0	19.8	-12.2	Pass
2362.325000	-32.0	19.8	-12.2	Pass
2349.575000	-32.1	19.9	-12.2	Pass
2399.025000	-32.1	19.9	-12.2	Pass
2362.275000	-32.1	19.9	-12.2	Pass
2399.075000	-32.1	19.9	-12.2	Pass
2385.725000	-32.1	19.9	-12.2	Pass
2310.925000	-32.1	19.9	-12.2	Pass
2393.175000	-32.1	19.9	-12.2	Pass
2356.525000	-32.2	20.0	-12.2	Pass

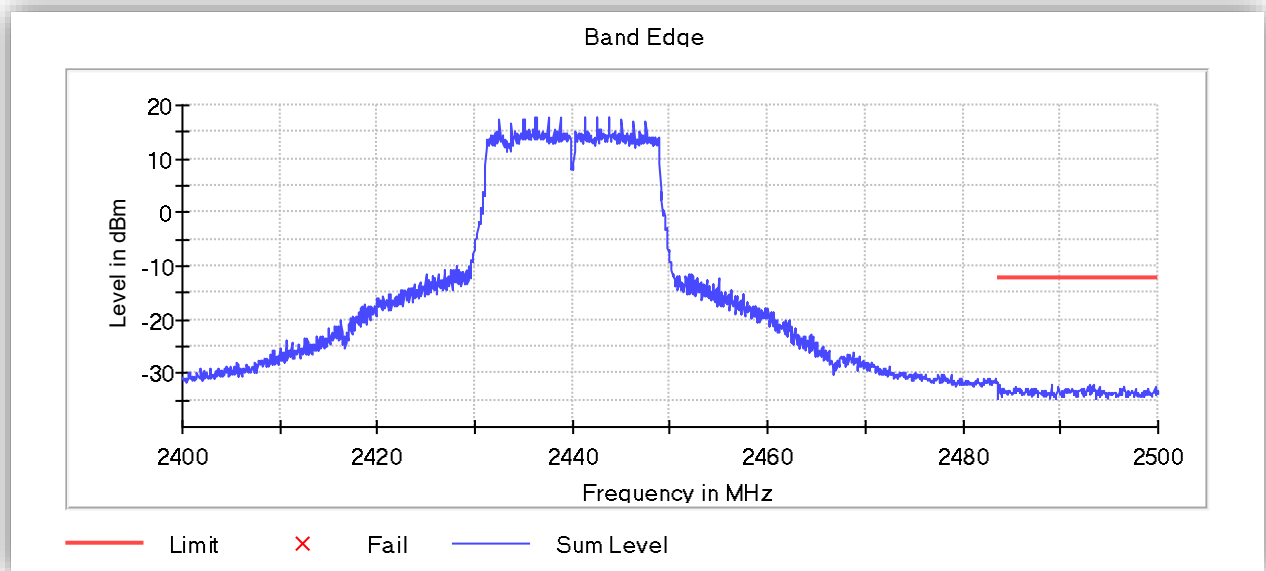
2.6.10 Test Results (Upper Band Edge)

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.625000	-31.8	19.6	-12.2	Pass
2483.675000	-32.0	19.8	-12.2	Pass
2483.725000	-32.0	19.8	-12.2	Pass
2492.925000	-32.1	19.9	-12.2	Pass
2492.975000	-32.2	20.0	-12.2	Pass
2493.375000	-32.2	20.0	-12.2	Pass
2489.075000	-32.3	20.1	-12.2	Pass
2496.525000	-32.3	20.1	-12.2	Pass
2492.775000	-32.3	20.1	-12.2	Pass
2489.025000	-32.4	20.2	-12.2	Pass
2493.325000	-32.4	20.2	-12.2	Pass
2489.825000	-32.5	20.3	-12.2	Pass
2493.975000	-32.6	20.4	-12.2	Pass
2499.725000	-32.6	20.4	-12.2	Pass
2496.475000	-32.6	20.4	-12.2	Pass

2.6.11 Test Plots



Low Band Edge 2400MHz



Upper Band Edge 2483.5MHz



2.7 RADIATED SPURIOUS EMISSIONS

2.7.1 Specification Reference

FCC 47 CFR Part 15, Clause 15.247(d)

2.7.2 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

2.7.3 Equipment Under Test and Modification State

Serial No: SC42-63554,C7 / Test Configuration B

2.7.4 Date of Test/Initial of test personnel who performed the test

February 26 and 27, 2026 / OC

2.7.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.7.6 Environmental Conditions (Rancho Bernardo Satellite Facility)

Ambient Temperature	22.5 °C
Relative Humidity	34.6 %
ATM Pressure	99.1 kPa

2.7.7 Additional Observations

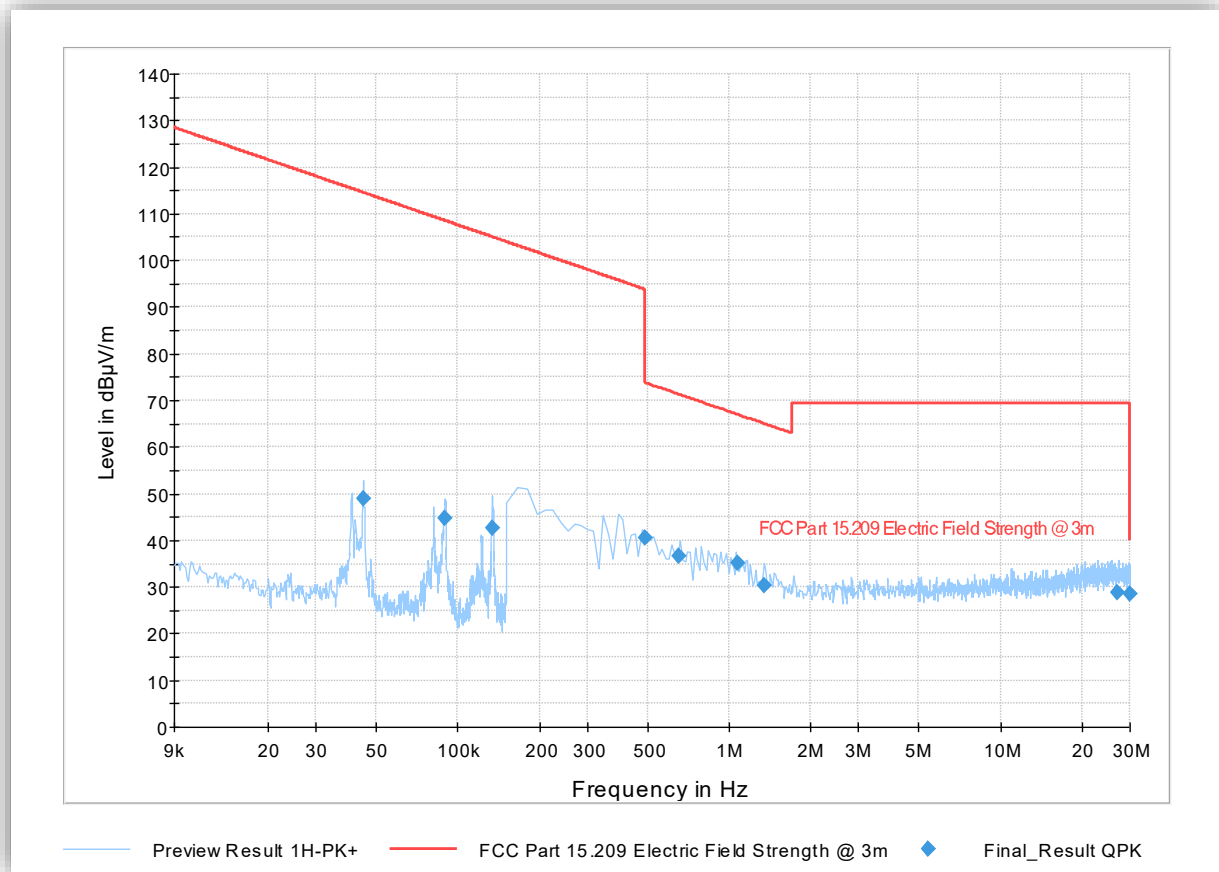
- This is a radiated test. The spectrum was searched from 9kHz to 26GHz (which covers the 10th harmonic).
- Antenna port terminated with 50 Ω load. Emissions coming out of the cabinet being verified.
- There are no emissions found that do not comply to the restricted bands defined in FCC Part 15 Subpart C, 15.205 or Part 15.247(d).
- Measurement was done using EMC32 V11.50.00 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only. See Section 2.7.8 for sample computation.



2.7.8 Sample Computation (Radiated Emission)

Measuring equipment raw measurement (db μ V) @ 30 MHz			-0.8
Correction Factor (dB/m)	Asset# 1066 (cable)	18.1	12.6
	Asset# 1172 (cable)	0.3	
	Asset# 1175(cable)	0.3	
	Asset# 1002 (antenna)	17.2	
Reported QuasiPeak Final Measurement (db μ V/m) @ 30MHz			11.8

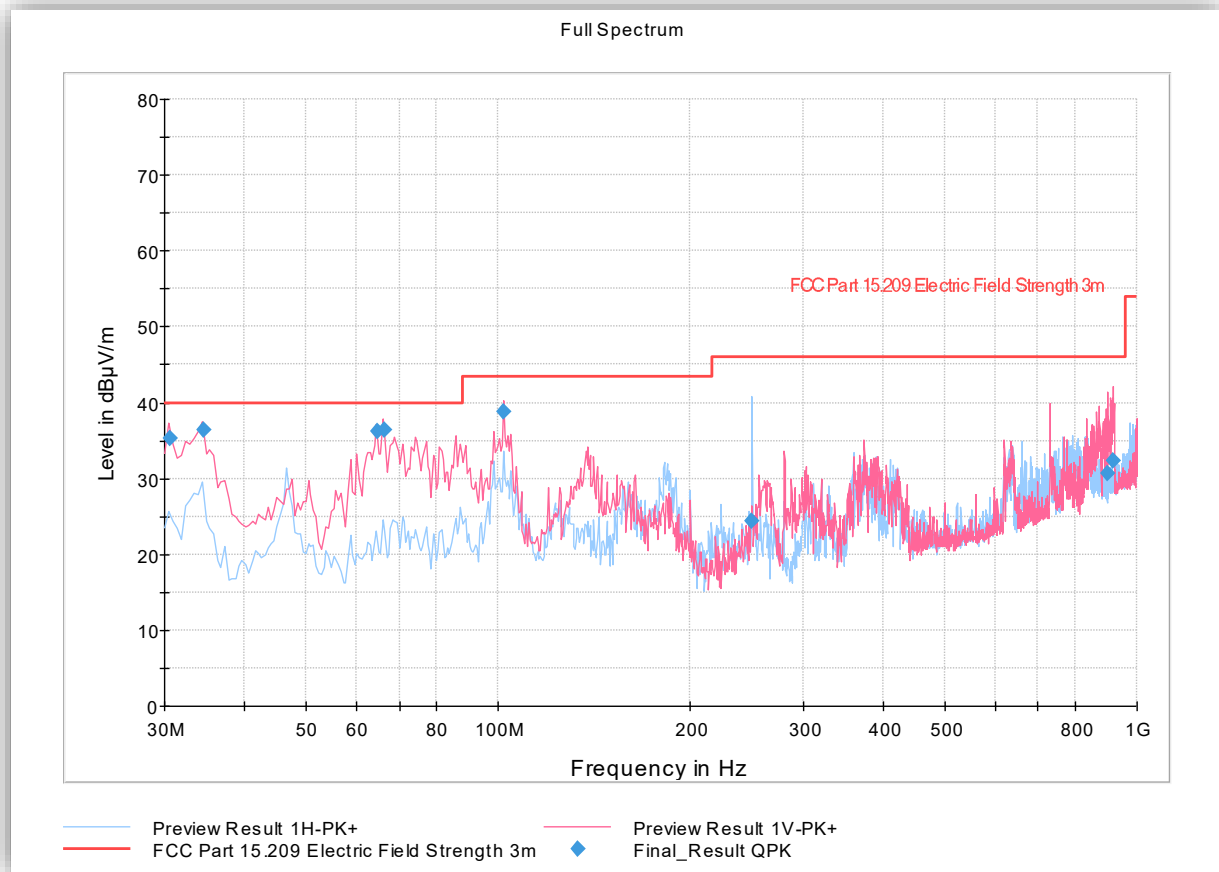
2.7.9 Test Results for 9KHz to 30MHz



Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.044755	48.84	114.58	65.74	1000.	0.200	H	-9.0	20.4
0.089734	44.79	108.54	63.75	1000.	0.200	H	241.0	20.2
0.134366	42.54	105.04	62.50	1000.	0.200	H	15.0	19.8
0.488275	40.63	93.83	53.20	1000.	9.000	H	85.0	19.8
0.649450	36.73	71.35	34.62	1000.	9.000	H	301.0	19.9
1.071425	35.01	67.00	31.99	1000.	9.000	H	313.0	20.2
1.339000	30.41	65.06	34.65	1000.	9.000	H	301.0	20.2
27.110475	28.90	69.54	40.64	1000.	9.000	H	235.0	25.0
29.998000	28.62	69.54	40.92	1000.	9.000	H	296.0	24.9

2.7.10 Test Results for 30MHz to 1GHz

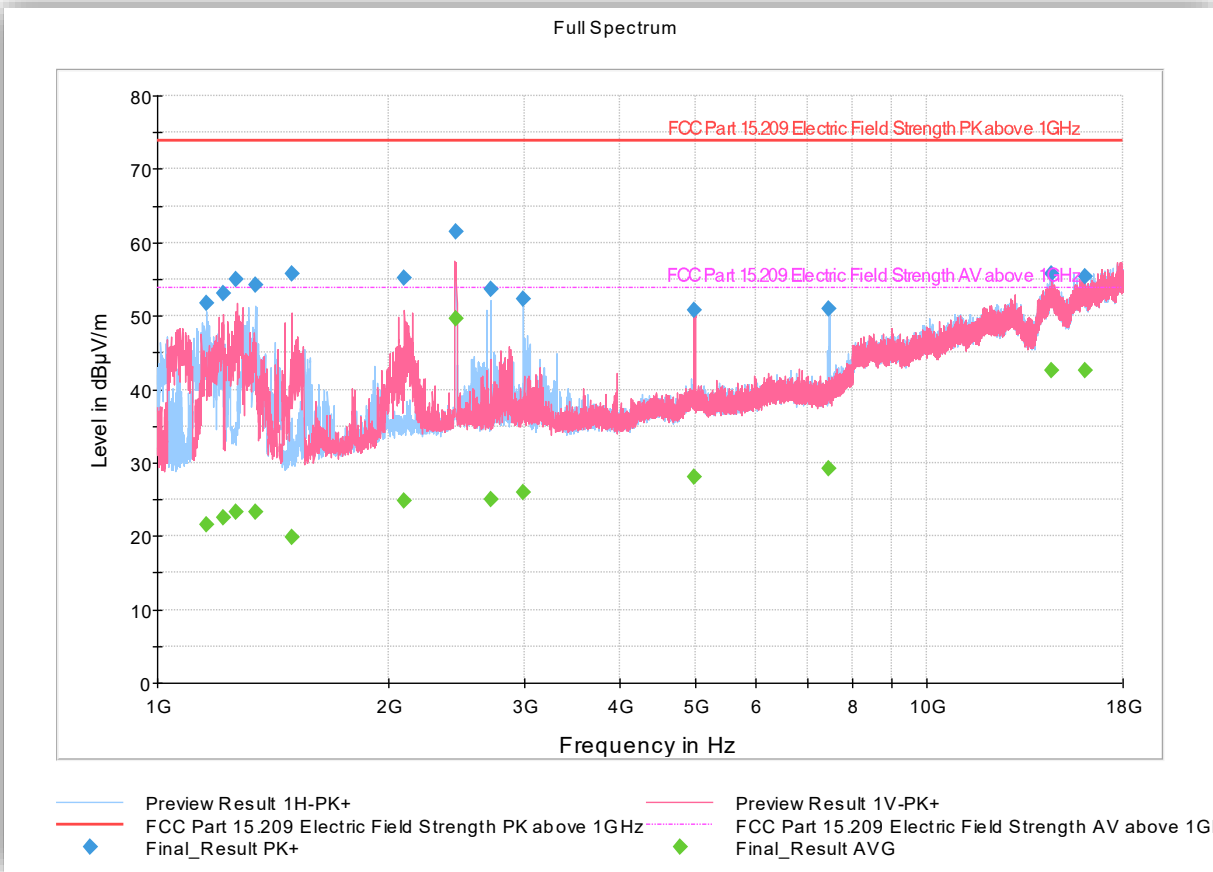


Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.620000	35.37	40.00	4.63	15000	120.000	103.0	V	282.0	-15.9
34.625000	36.37	40.00	3.63	15000	120.000	100.0	V	139.0	-15.2
64.775000	36.21	40.00	3.79	15000	120.000	101.0	V	300.0	-14.7
66.270000	36.42	40.00	3.58	15000	120.000	104.0	V	307.0	-15.2
101.88000	38.84	43.50	4.66	15000	120.000	112.0	V	119.0	-10.5
249.32500	24.37	46.00	21.63	15000	120.000	403.0	H	342.0	-10.1
898.69500	30.74	46.00	15.26	15000	120.000	100.0	V	21.0	3.4
916.84000	32.31	46.00	13.69	15000	120.000	110.0	V	21.0	4.0



2.7.11 Test Results for 1GHz to 18GHz



Peak Data

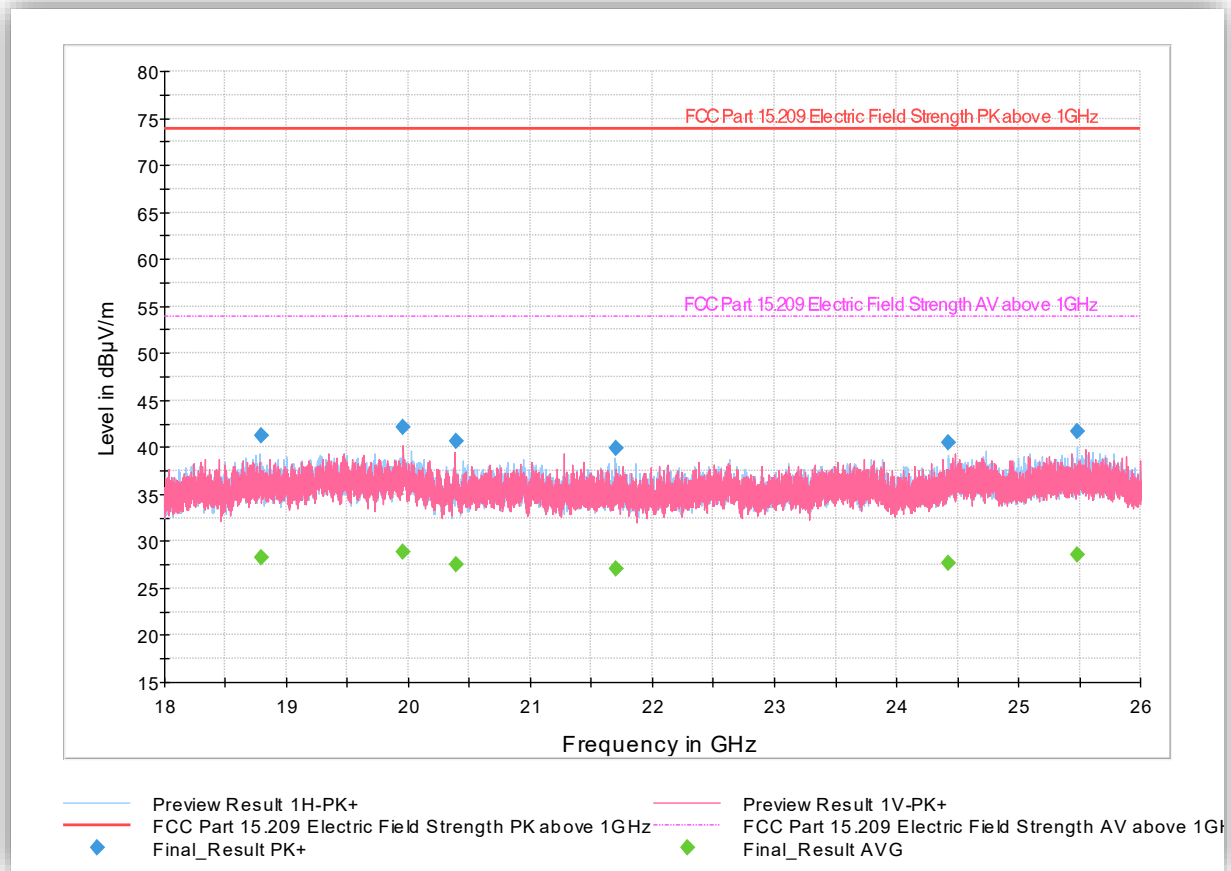
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1156.90000	51.69	73.90	22.21	1000.0	1000.000	204.0	H	330.0	-9.2
1218.90000	53.03	73.90	20.87	1000.0	1000.000	216.0	V	58.0	-8.9
1264.23333	54.92	73.90	18.98	1000.0	1000.000	297.0	V	173.0	-8.0
1341.03333	54.15	73.90	19.75	1000.0	1000.000	122.0	H	328.0	-7.6
1497.36666	55.83	73.90	18.07	1000.0	1000.000	264.0	V	-2.0	-8.6
2095.70000	55.26	73.90	18.64	1000.0	1000.000	229.0	V	49.0	-4.0
2443.30000	61.46	73.90	12.44	1000.0	1000.000	160.0	V	151.0	-2.0
2716.33333	53.68	73.90	20.22	1000.0	1000.000	112.0	H	2.0	-1.1
2987.36666	52.28	73.90	21.62	1000.0	1000.000	169.0	H	184.0	-0.5
4983.03333	50.71	73.90	23.19	1000.0	1000.000	250.0	V	249.0	4.8
7471.83333	50.98	73.90	22.92	1000.0	1000.000	411.0	H	46.0	9.4
14530.0666	55.70	73.90	18.20	1000.0	1000.000	411.0	H	95.0	25.0
16052.7666	55.46	73.90	18.44	1000.0	1000.000	360.0	V	259.0	26.0



Average Data

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1156.90000	21.61	53.90	32.29	1000.0	1000.000	204.0	H	330.0	-9.2
1218.90000	22.56	53.90	31.34	1000.0	1000.000	216.0	V	58.0	-8.9
1264.23333	23.21	53.90	30.69	1000.0	1000.000	297.0	V	173.0	-8.0
1341.03333	23.27	53.90	30.63	1000.0	1000.000	122.0	H	328.0	-7.6
1497.36666	19.88	53.90	34.02	1000.0	1000.000	264.0	V	-2.0	-8.6
2095.70000	24.78	53.90	29.12	1000.0	1000.000	229.0	V	49.0	-4.0
2443.30000	49.69	53.90	4.21	1000.0	1000.000	160.0	V	151.0	-2.0
2716.33333	25.00	53.90	28.90	1000.0	1000.000	112.0	H	2.0	-1.1
2987.36666	26.06	53.90	27.84	1000.0	1000.000	169.0	H	184.0	-0.5
4983.03333	28.00	53.90	25.90	1000.0	1000.000	250.0	V	249.0	4.8
7471.83333	29.12	53.90	24.78	1000.0	1000.000	411.0	H	46.0	9.4
14530.0666	42.58	53.90	11.32	1000.0	1000.000	411.0	H	95.0	25.0
16052.7666	42.66	53.90	11.24	1000.0	1000.000	360.0	V	259.0	26.0

2.7.12 Test Results for 18GHz to 26GHz



Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18787.6666	41.31	73.90	32.59	1000.0	1000.000	108.0	H	62.0	-4.7
19951.9333	42.13	73.90	31.77	1000.0	1000.000	105.0	V	10.0	-4.4
20394.3333	40.65	73.90	33.25	1000.0	1000.000	154.0	V	251.0	-4.7
21697.0000	39.83	73.90	34.07	1000.0	1000.000	115.0	H	286.0	-4.2
24427.0000	40.47	73.90	33.43	1000.0	1000.000	142.0	H	1.0	-1.9
25487.8000	41.75	73.90	32.15	1000.0	1000.000	107.0	H	203.0	-0.9

Average Data

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18787.6666	28.25	53.90	25.65	1000.0	1000.000	108.0	H	62.0	-4.7
19951.9333	28.94	53.90	24.96	1000.0	1000.000	105.0	V	10.0	-4.4
20394.3333	27.53	53.90	26.37	1000.0	1000.000	154.0	V	251.0	-4.7
21697.0000	27.01	53.90	26.89	1000.0	1000.000	115.0	H	286.0	-4.2
24427.0000	27.61	53.90	26.29	1000.0	1000.000	142.0	H	1.0	-1.9
25487.8000	28.54	53.90	25.36	1000.0	1000.000	107.0	H	203.0	-0.9



2.8 POWER SPECTRAL DENSITY

2.8.1 Specification Reference

FCC 47 CFR Part 15, Clause 15.247(e)

2.8.2 Standard Applicable

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

2.8.3 Equipment Under Test and Modification State

Serial No: SC42-63554,C7 / Test Configuration A

2.8.4 Date of Test/Initial of test personnel who performed the test

February 19, 2026 / OC

2.8.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.8.6 Environmental Conditions (Rancho Bernardo Satellite Facility)

Ambient Temperature	24.2 °C
Relative Humidity	38.6 %
ATM Pressure	99.1 kPa

2.8.7 Additional Observations

- This is a conducted test using direct connection to the TS8997 Test System.
- The path loss was all accounted for with the test system calibration.
- All ports are used for this test.
- Test methodology is per FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v05 F and ANSI C63.10-2020.

2.8.8 Test Results Summary

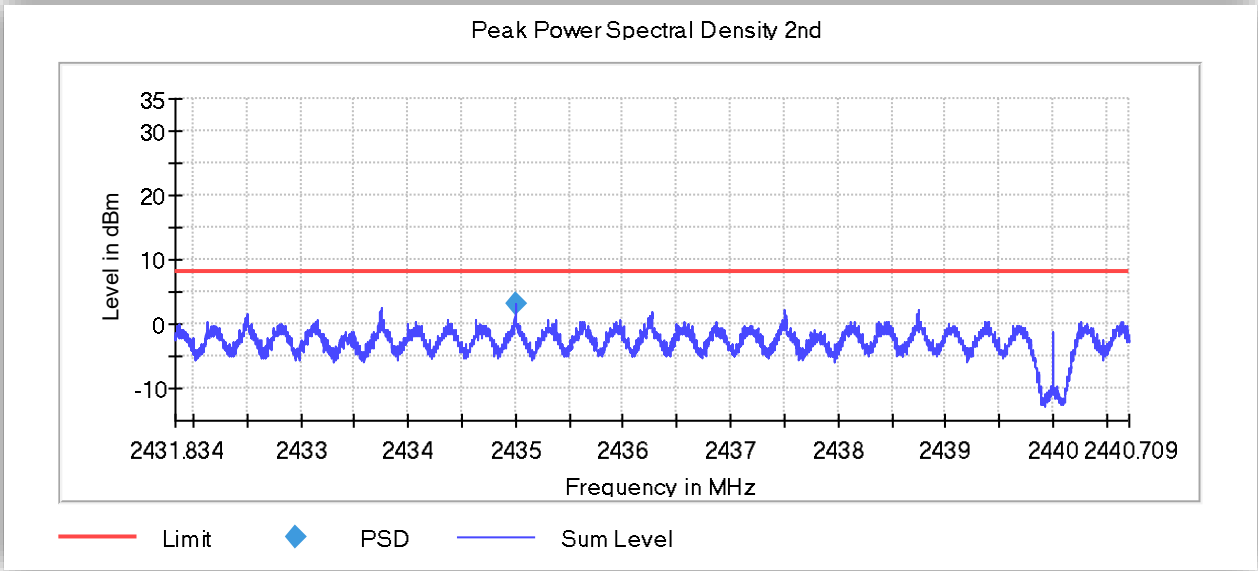
DUT Frequency (MHz)	Configuration	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2x2 MIMO	2435.004070	3.175	8.0	Pass

2.8.9 Sample Measurement Settings

Setting	Instrument Value	Target Value
Span	8.875 MHz	8.875 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	5917	~ 5917
SweepTime	98.700 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	10	10
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	86 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.26 dB	0.50 dB



2.8.10 Test Plot



2440 MHz



SECTION 3

TEST EQUIPMENT USED



3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

ID Number (SDGE/SDRB)	Test Equipment	Type	Serial Number	Manufacturer	Cal Date	Cal Due Date
Conducted Port Setup						
7643	Signal/Spectrum Analyzer	FSV30	1321.3008K3 0/103166	Rhode & Schwarz	02/04/25	03/04/26
7655	Vector Signal Generator	SMBV100A	260734	Rhode & Schwarz	02/04/25	03/04/26
7654	Signal Generator	SMB 100A	175750	Rhode & Schwarz	02/05/25	03/05/26
7656	OSP with B157	OSP120	101310	Rhode & Schwarz	02/05/25	03/05/26
56534	RF Cable	UFB142A-10787- 200200	N/A	Utiflex	Verified by 7643 and 7654 / 7655	
8930	20 dB att (SMA)	HA18A5W-20	NA	Hasco Inc.	Verified by 7643 and 7654	
65162	2.4GHz to 2.5GHz Notch Filter	BRM50702	G580	Micro-Tronics	Verified by 7643 and 7654	
AC Conducted Emissions						
56393	EMI Test Receiver	ESR7	102585	Rohde & Schwarz	04/01/25	04/01/26
06836	LISN	FCC-LISN-50-25-2	05024	Fischer Custom Comm	04/10/25	04/10/26
08822	20dB Attenuator	34-20-34	BP4180	MCE / Weinschel	05/02/25	05/02/26
08824	20dB Attenuator	34-20-34	BP4150	MCE / Weinschel	05/02/25	05/02/26
Radiated Emission						
68301	EMI Test Receiver	ESW44	103417	Rohde & Schwarz	08/11/25	08/11/26
8628	Pre-Amplifier	QLJ-01182835-JO	8986002	Quinstar	02/19/26	02/19/27
07575	1-18GHz DRG Horn	3117	155511	ETS Lindgren	08/20/24	08/20/26
64249	Trilog Broadband Antenna	VULB 9162	00660.3105	Schwarzbeck	12/08/25	12/08/27
51235	RF Pre-Amp (9kHz to 1GHz)	310	412802	Sonoma Instruments Co.	07/29/25	07/29/26
9001	18-26 GHz Antenna	HO42S	101	Custom Microwave Inc.	09/16/25	09/16/26
40815	18GHz to 40GHz Low Noise Amplifier	SLKka-30-6	19D18	Spacek Labs	11/03/25	11/03/26
6628	Loop Antenna	HFH2- Z2335.4711.52	FNr.800.458/2 5	Rohde & Schwarz	07/02/24	07/02/26
Miscellaneous						
34029	Mini Environmental Quality Meter	Hygrometer	850027	Sper Scientific	10/20/25	10/20/26
43003	True RMS Multimeter	85 III	69880143	Fluke	10/07/25	10/07/26
	Test Software	EMC32	V11.50.00	Rhode & Schwarz	N/A	

3.2 MEASUREMENT UNCERTAINTY

Calculation of Measurement Uncertainty per CISPR 16-4-2:2011 with Corr. 1

3.2.1 AC Conducted Measurements (for reference only)

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	LISN-receiver attenuation	0.10 dB	Normal, k=2	2.000	0.05	0.00
3	LISN voltage division factor	0.25 dB	Normal, k=2	2.000	0.13	0.02
4	Receiver sinewave accuracy	0.50 dB	Normal, k=2	2.000	0.25	0.06
5	Receiver pulse amplitude	1.50 dB	Rectangular	1.732	0.87	0.75
6	Receiver pulse repetition rate	1.50 dB	Rectangular	1.732	0.87	0.75
7	Noise floor proximity	0.00 dB	Rectangular	1.732	0.00	0.00
8	AMN VDF frequency interpolation	0.10 dB	Rectangular	1.732	0.06	0.00
9	Mismatch	0.07 dB	U-shaped	1.414	0.05	0.00
10	LISN impedance	2.65 dB	Triangular	2.449	1.08	1.17
11	Effect of mains disturbance	0.00 dB			0.00	0.00
12	Effect of the environment					
Combined standard uncertainty			Normal	1.66 dB		
Expanded uncertainty			Normal, k=2	3.33 dB		

3.2.2 Radiated Measurements (9kHz to 30MHz)

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.20 dB	Normal, k=2	2.000	0.10	0.01
3	Antenna factor AF	0.44 dB	Normal, k=2	2.000	0.22	0.05
4	Receiver sinewave accuracy	0.23 dB	Normal, k=2	2.000	0.12	0.01
5	Receiver pulse amplitude	1.50 dB	Rectangular	1.732	0.87	0.75
6	Receiver pulse repetition rate	1.50 dB	Rectangular	1.732	0.87	0.75
7	Noise floor proximity	0.50 dB	Rectangular	1.732	0.29	0.08
8	Mismatch: antenna-receiver	0.95 dB	U-shaped	1.414	0.67	0.45
9	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
10	AF height deviations	0.10 dB	Rectangular	1.732	0.06	0.00
11	Directivity difference at 10 m	3.12 dB	Rectangular	1.732	1.80	3.24
12	Phase center location at 10 m	1.00 dB	Rectangular	1.732	0.58	0.33
13	Cross-polarisation	0.90 dB	Rectangular	1.732	0.52	0.27
14	Balance	0.00 dB	Rectangular	1.732	0.00	0.00
15	Site imperfections	0.00 dB	Triangular	2.449	0.00	0.00
16	Separation distance at 10 m	1.00 dB	Rectangular	1.732	0.58	0.33
17	Effect of setup table material	0.00 dB	Rectangular	1.732	0.00	0.00
18	Table height at 10 m	0.10 dB	Normal, k=2	2.000	0.05	0.00
19	Near-field effects	0.00 dB	Triangular	2.449	0.00	0.00
20	Effect of ambient noise on OATS	0.00 dB				0.00
Combined standard uncertainty			Normal	2.52 dB		
Expanded uncertainty			Normal, k=2	5.03 dB		

3.2.3 Radiated Measurements (30MHz to 1GHz)

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.20 dB	Normal, k=2	2.000	0.10	0.01
3	Antenna factor AF	0.58 dB	Normal, k=2	2.000	0.29	0.08
4	Receiver sinewave accuracy	0.19 dB	Normal, k=2	2.000	0.10	0.01
5	Receiver pulse amplitude	1.50 dB	Rectangular	1.732	0.87	0.75
6	Receiver pulse repetition rate	1.50 dB	Rectangular	1.732	0.87	0.75
7	Noise floor proximity	0.50 dB	Rectangular	1.732	0.29	0.08
8	Mismatch: antenna-receiver	0.95 dB	U-shaped	1.414	0.67	0.45
9	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
10	AF height deviations	0.10 dB	Rectangular	1.732	0.06	0.00
11	Directivity difference at 3 m	3.12 dB	Rectangular	1.732	1.80	3.24
12	Phase center location at 3 m	1.00 dB	Rectangular	1.732	0.58	0.33
13	Cross-polarisation	0.90 dB	Rectangular	1.732	0.52	0.27
14	Balance	0.00 dB	Rectangular	1.732	0.00	0.00
15	Site imperfections	3.14 dB	Triangular	2.449	1.28	1.64
16	Separation distance at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
17	Effect of setup table material	0.40 dB	Rectangular	1.732	0.23	0.05
18	Table height at 3 m	0.10 dB	Normal, k=2	2.000	0.05	0.00
19	Near-field effects	0.00 dB	Triangular	2.449	0.00	0.00
20	Effect of ambient noise on OATS	0.00 dB				0.00
Combined standard uncertainty				Normal	2.79 dB	
Expanded uncertainty				Normal, k=2	5.57 dB	

3.2.1 Radiated Emission Measurements (1GHz to 18GHz)

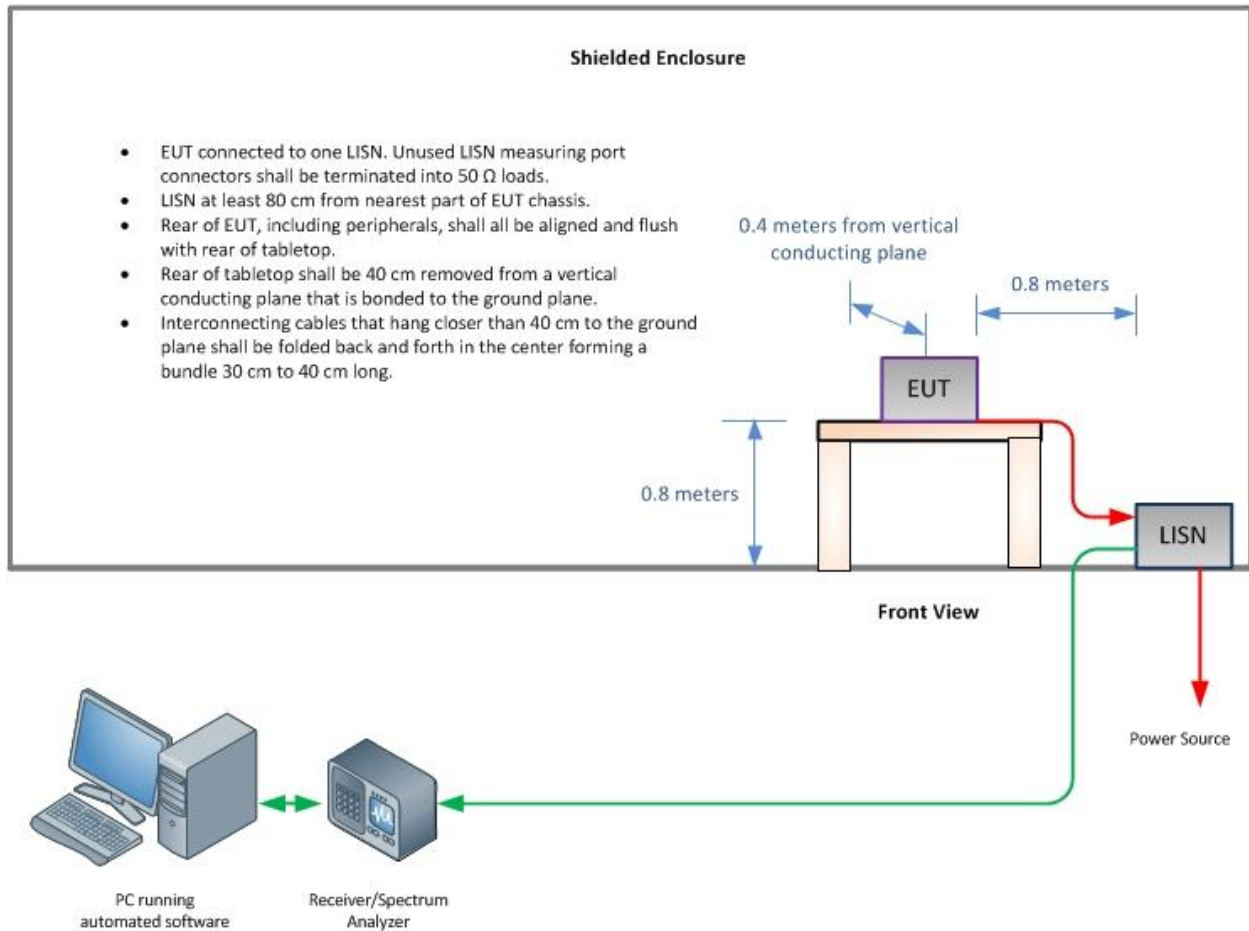
	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.30 dB	Normal, k=2	2.000	0.15	0.02
3	Preamplifier Gain	0.20 dB	Normal, k=2	2.000	0.10	0.01
4	Antenna factor AF	0.37 dB	Normal, k=2	2.000	0.19	0.03
5	Sinewave accuracy	0.50 dB	Normal, k=2	2.000	0.25	0.06
6	Instability of preamp gain	1.21 dB	Rectangular	1.732	0.70	0.49
7	Noise floor proximity	0.70 dB	Rectangular	1.732	0.40	0.16
8	Mismatch: antenna-preamplifier	1.41 dB	U-shaped	1.414	1.00	0.99
9	Mismatch: preamplifier-receiver	1.30 dB	U-shaped	1.414	0.92	0.85
10	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
11	Directivity difference at 3 m	1.50 dB	Rectangular	1.732	0.87	0.75
12	Phase center location at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
13	Cross-polarisation	0.90 dB	Rectangular	1.732	0.52	0.27
14	Site imperfections VSWR (Method 2)	5.20 dB	Triangular	2.449	2.12	4.51
15	Effect of setup table material	1.15 dB	Rectangular	1.732	0.66	0.44
16	Separation distance at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
17	Table height at 3 m	0.00 dB	Normal, k=2	2.000	0.00	0.00
Combined standard uncertainty			Normal	2.95 dB		
Expanded uncertainty			Normal, k=2	5.90 dB		



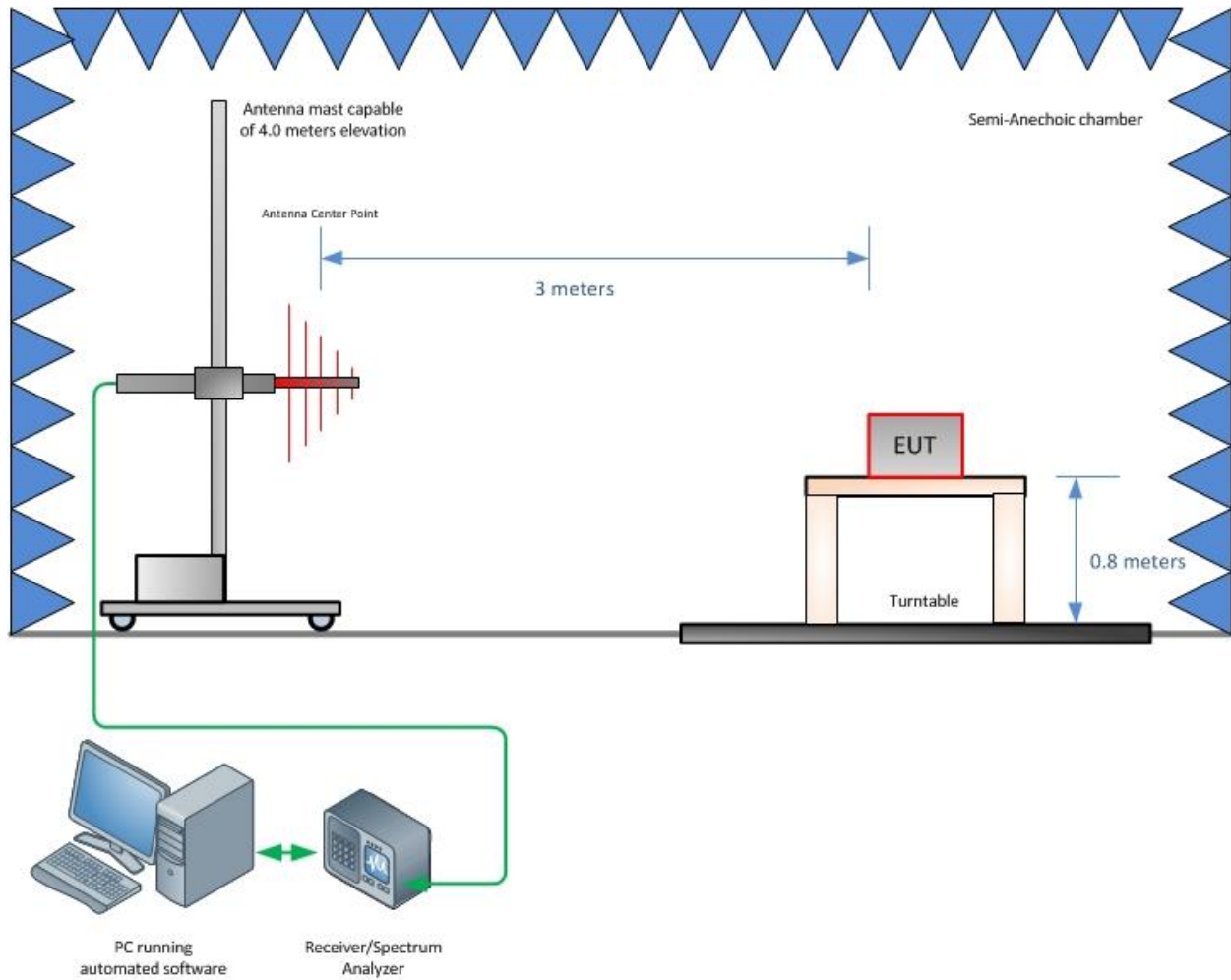
SECTION 4

DIAGRAM OF TEST SETUP

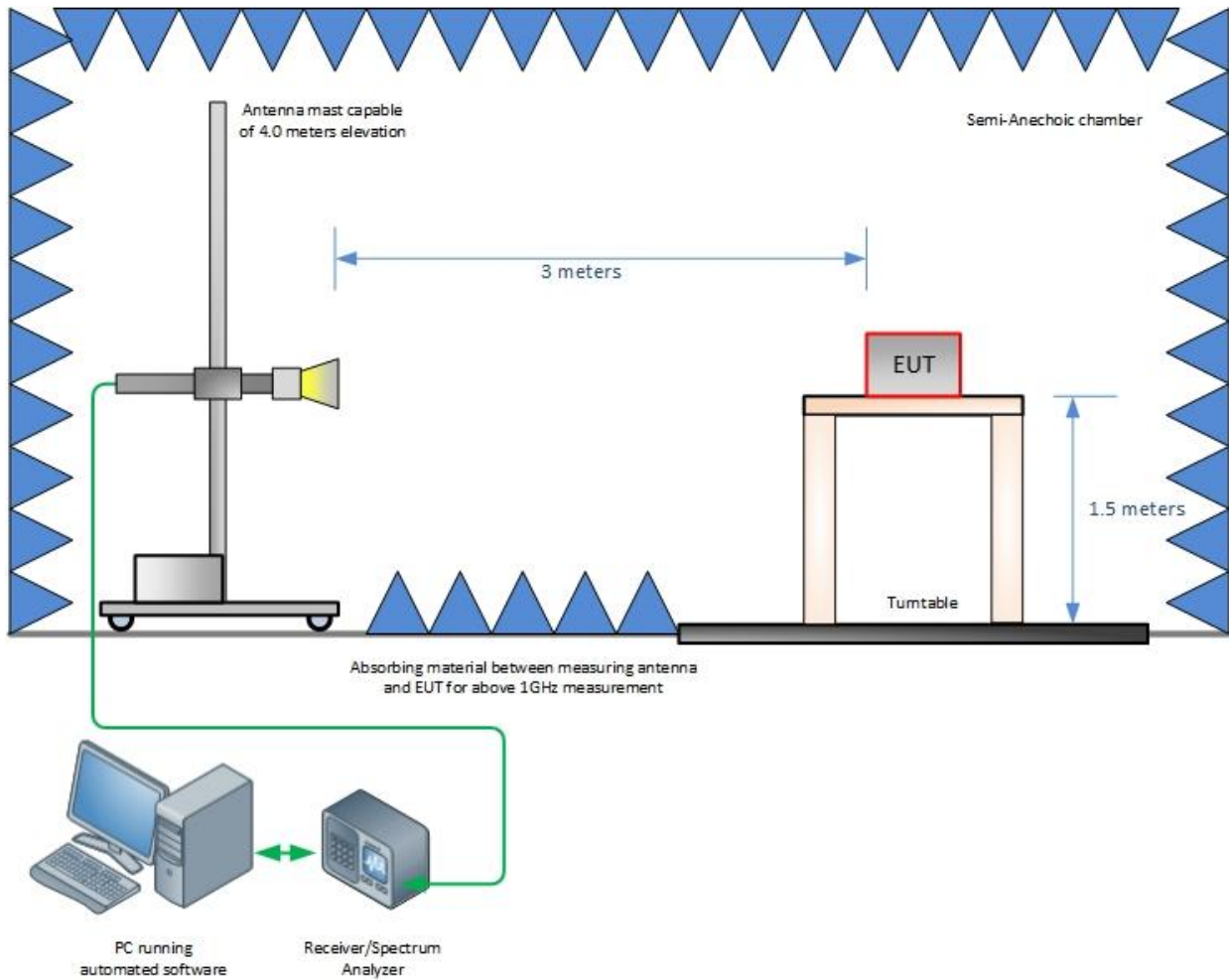
4.1 TEST SETUP DIAGRAM



AC Conducted Emission Test Setup (for reference only)



Radiated Emission Test Setup (Below 1GHz)



Radiated Emission Test Setup (Above 1GHz)



SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT

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