



Product Service

Radio Testing of the

Data Sciences International
Models: SoHo - X10, SoHo - S10

In accordance with FCC 47 CFR Part 15.249 and
ISED RSS-210

Data Sciences International
119 14th St NW
Suite 100
St. Paul, MN 55112



Product Service

**Choose certainty.
Add value.**

COMMERCIAL-IN-CONFIDENCE

Date: 24-Aug-2026

Document Number: 721022563B Issue 01 | Version Number: 01

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Project Management	Joe Salvador	24-Aug-2026	
Authorised Signatory	Ferdinand Custodio	24-Aug-2026	

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

EXECUTIVE SUMMARY

A sample of this product was tested and found to be in compliance with FCC 47 CFR Part 15.249 and ISED RSS-210.



A2LA Cert. No. 2955.13

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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	24-Aug-2026

Table 1

1.2 Introduction

Applicant	Data Sciences International
Manufacturer	Data Sciences International
Model Number(s)	SoHo-X10, SoHo-S10 (Only model SoHo-X10 was tested. See Family of models-X10.pdf)
Serial Number(s)	1364280, 1364279 (Conducted Samples) 1365576, 1365583 (Radiated Samples)
Hardware Version(s)	PCBA- Rev04C
Software Version(s)	Firmware: 2.6174 – Implants
FCC ID	MHASOHOIFA
IC Number	5681A-SOHOIFA
Manufacturer's declared output power	1mW (0 dBm)
Test Specification/Issue/Date	FCC 47 CFR Part 15.249, ISED RSS-210 and ISED RSS-GEN Issue 2 (February 23, 2024)
Test Plan/Issue/Date	WirelessTest_Instructions-Rev05.pdf
Order Number	200210020446
Date	09-July-2026
Date of Receipt of EUT	09-July-2026
Start of Test	10-July-2026
Finish of Test	20-July-2026
Name of Engineer(s)	Joe Salvador
Related Document(s)	X10 IFA Antenna Datasheet.pdf



- Family of models – X10.pdf
- ANSI C63.10-2020

1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15C and ISED RSS-210 and ISED RSS-GEN is shown below.

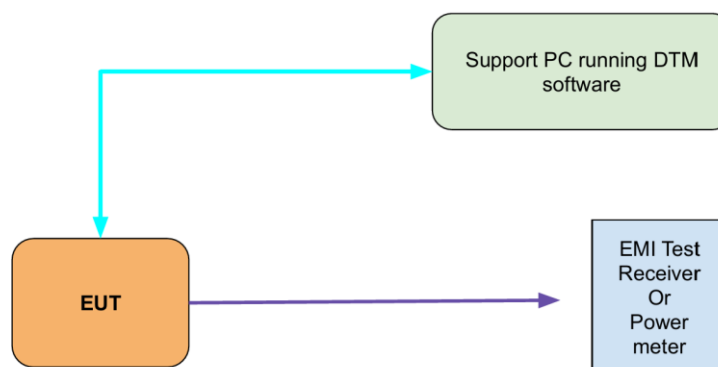
Section	Specification Clause	Test Description	Result	Comments
Bluetooth Low Energy – 1Mbps, 2Mbps - TX Mode				
2.1	15.207, and 8.8	AC Power Line Conducted Emissions	N/A	EUT is battery powered.
2.2	15.215 (c), and 6.6	20 dB Bandwidth	Pass	N/A
2.3	15.249 (a), B.10 (a) and	Field Strength of Fundamental	Pass	N/A
2.4	15.249 (a)(d), B.10 (a) and	Field Strength of Emissions	Pass	N/A
2.5	15.203	Antenna Requirement	Pass	N/A

Table 2

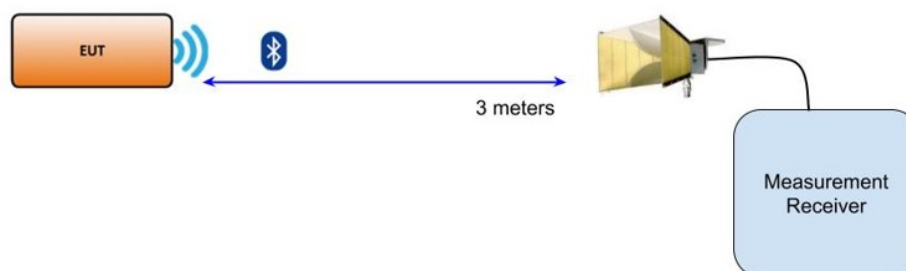
1.4 Product Information

The Equipment Under Test (EUT) is a SoHub transceiver for a telemetry acquisition system platform of socially (group) housed animals. The platform collects physiological data from identified, autoconfigured subjects, and telemetries the high-quality digital physiological data back to acquisition computer. The platform consists of an acquisition computer with transceivers (EUT) and implants (SoHo). The cable communications between the acquisition computer and hubs are a USB link. If the cable needs to exceed 5m between the PC and first EUT a USB extender (and power supply) is provided. The platform's telemetry protocol is Bluetooth Low Energy (BLE). The RF Network topology is a star network with up to 16 implants / hub.

1.4.1 Test Configuration



Conducted Test Configuration

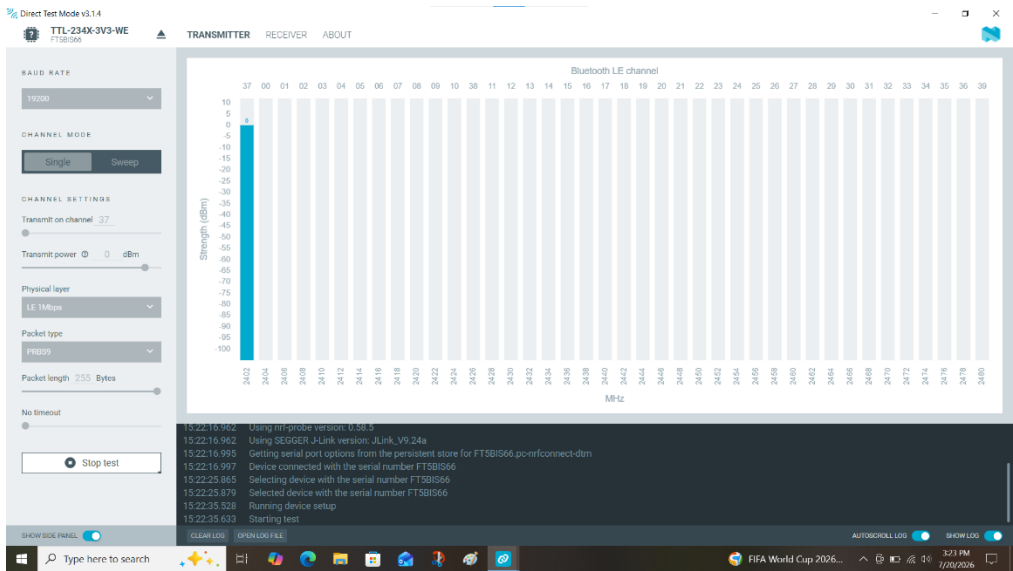


Radiated Test Configuration



Product Service

1.4.2 Modes of Operation



Tx Mode



1.4.3 Performance Criteria

All measurements contained in this report were conducted with Ordinance on Technical Standards Conformity Certification of Specified Radio Equipment 2.4GHz Band wide band low power data communication System Certification Ordinance Article 2 Clause 1 Item19 (Radio Station Using 2400 To 2483.5 MHz).

For conducted and radiated emissions (if applicable) 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 C63.10-2020. The test modes were adapted according to the Operating Instructions provided by the manufacturer/client.

1.5 Deviations from the Standard

None

1.6 EUT Modification Record

The table below details modifications made to the EUT during the test programme. The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
None	As supplied by the customer	Not Applicable	Not Applicable

Table 3

1.7 Test Location

TÜV SÜD America San Diego conducted the following tests at our San Diego Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Bluetooth Low Energy – 1Mbps, 2Mbps - TX Mode		
AC Power Line Conducted Emissions	Joe Salvador	N/A
20 dB Bandwidth	Joe Salvador	A2LA
Field Strength of Fundamental	Joe Salvador	A2LA
Field Strength of Emissions	Joe Salvador	A2LA
Antenna Requirement	Joe Salvador	A2LA

Table 4

Office Address:

10040 Mesa Rim Road
San Diego, CA 92121



2 Test Details

2.1 AC Power Line Conducted Emissions

2.1.1 Specification Reference

FCC 47 CFR Part 15C, ISSED RSS-210 and ISSED RSS-GEN, Clause 15.207

2.1.2 Standard Applicable

(b) The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

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.*

2.1.3 Equipment Under Test and Modification State

Not applicable. EUT is a battery powered.



2.2 20 dB Bandwidth and 99% Emission Bandwidth

2.2.1 Specification Reference

FCC 47 CFR Part 15C, ISSED RSS-210 and ISSED RSS-GEN, Clause 15.215 (c)

2.2.2 Equipment Under Test and Modification State

1364280, 1364279 (Conducted Samples) - Modification State - None

2.2.3 Date of Test

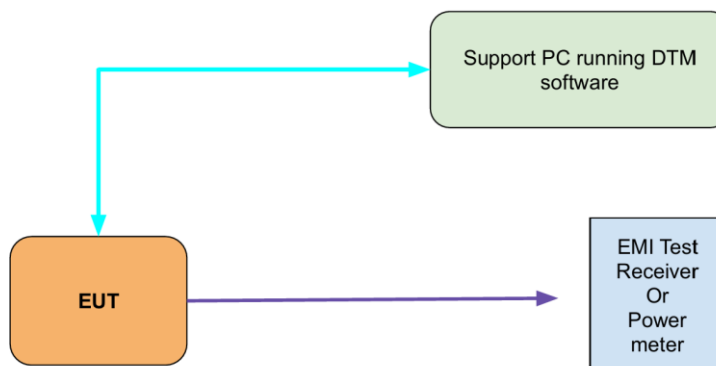
20-July-2026 to 24-July-2026

2.2.4 Test Method

Bluetooth Low Energy – 1Mbps, 2Mbps - TX Mode

- This is a conducted test.
- The EUT was configured by a support pc using nRF connect software to transmit at either Low, Mid or High channels.
- The test was performed in accordance with ANSI C63.10, clause 6.9.1.

2.2.5 Test Setup Diagram Example



2.2.6 Environmental Conditions

Ambient Temperature	26.1 °C
Relative Humidity	44.5 %
Atmospheric Pressure	100.0 kPa



2.2.7 Specification Limits

FCC 47 CFR Part 15, Limit Clause 15.215 (c)

The 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Industry Canada RSS 210 and Industry Canada RSS GEN, Limit Clause

2.2.8 Test Results

Complies. The 20dB bandwidth of the EUT is within the specified frequency band (2400 to 2483.5MHz).
 See plots below:

Frequency (MHz)	20 dB Bandwidth (MHz)	F _{LOWER} (GHz)	F _{UPPER} (GHz)
(1M) 2402	1.34	2.401331	2.402669
(1M) 2440	1.33	2.439331	2.440659
(1M) 2480	1.35	2.479331	2.480679
(2M) 2402	2.44	2.400781	2.403219
(2M) 2440	2.45	2.438781	2.441229
(2M) 2480	2.47	2.479771	2.481239

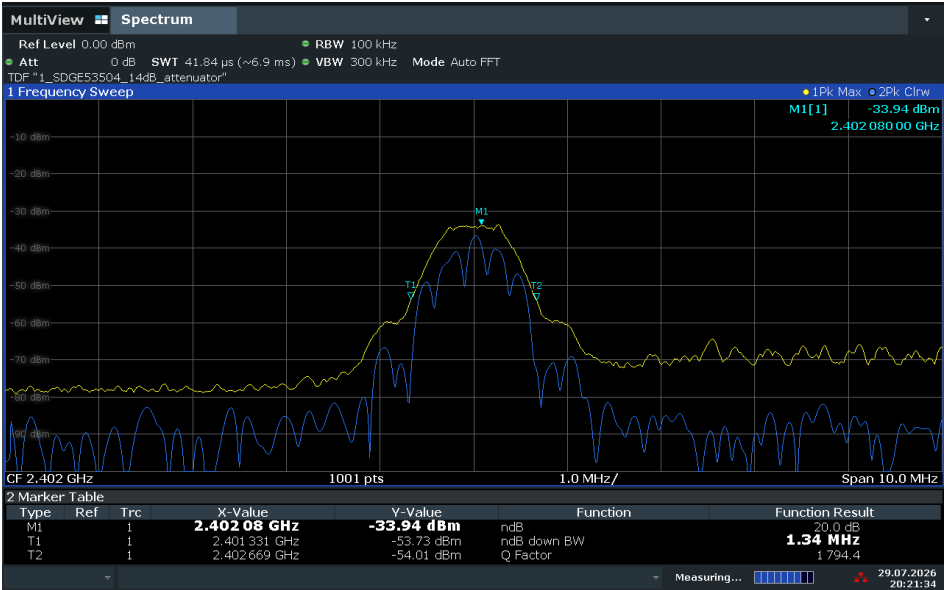
Table 5

Frequency (MHz)	99% Occupied Bandwidth (MHz)	F _{LOWER} (GHz)	F _{UPPER} (GHz)
(1M) 2402	1.16	2.401426	2.402587
(1M) 2440	1.19	2.439389	2.440586
(1M) 2480	1.14	2.479424	2.480573
(2M) 2402	2.16	2.400960	2.403123
(2M) 2440	2.10	2.438942	2.441045
(2M) 2480	2.09	2.478956	2.481050

Table 6

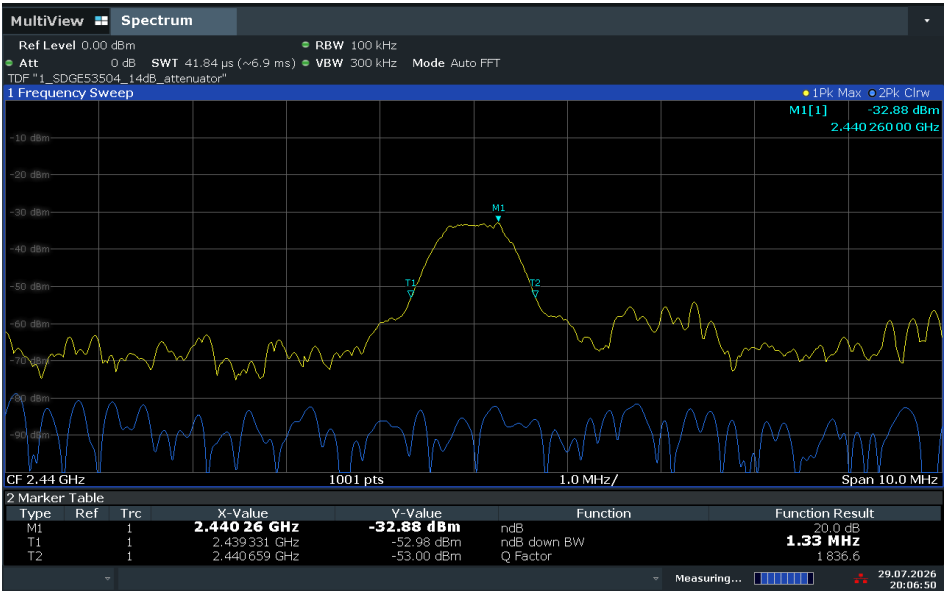


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20:21:34 29.07.2026

(1M) Low Channel 20 dB Bandwidth



20:06:50 29.07.2026

(1M) Mid Channel 20 dB Bandwidth

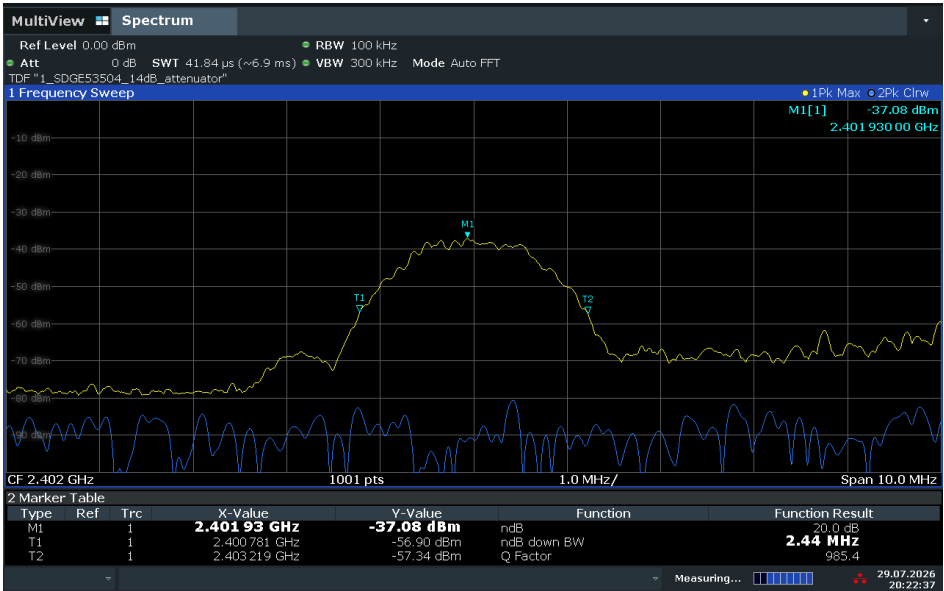


Product Service



20:19:50 29.07.2026

(1M) High Channel 20 dB Bandwidth

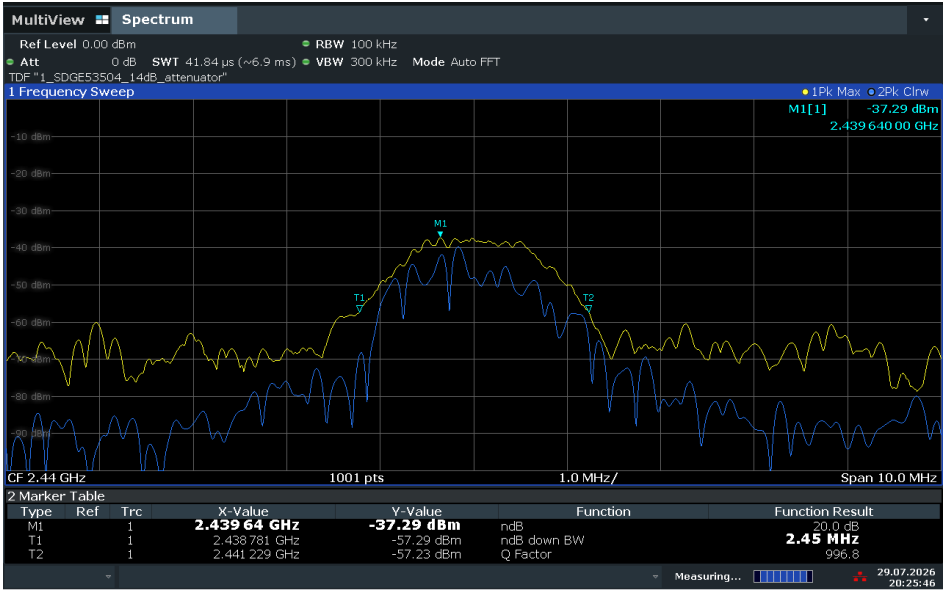


20:22:37 29.07.2026

(2M) Low Channel 20 dB Bandwidth

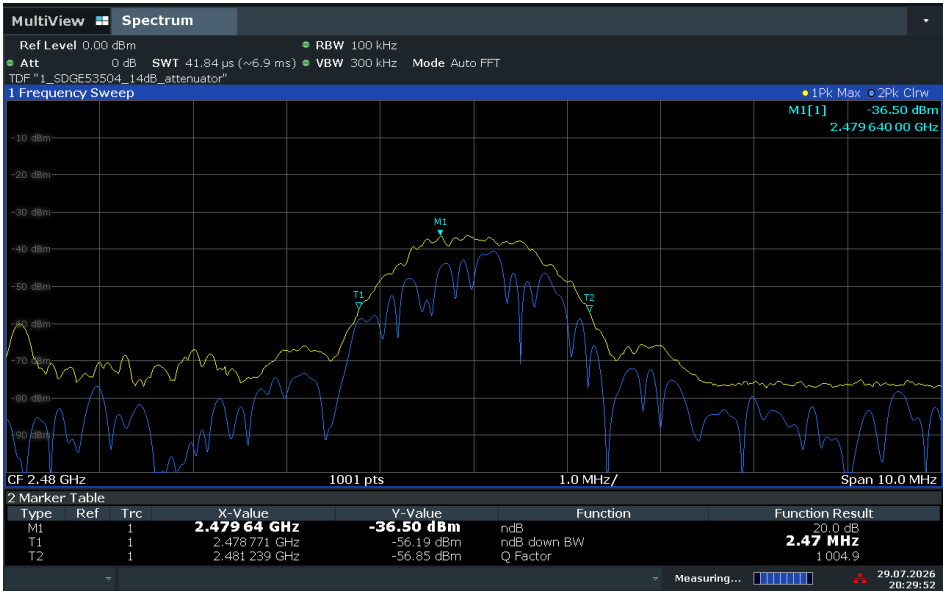


Product Service



20:25:47 29.07.2026

(2M) Mid Channel 20 dB Bandwidth

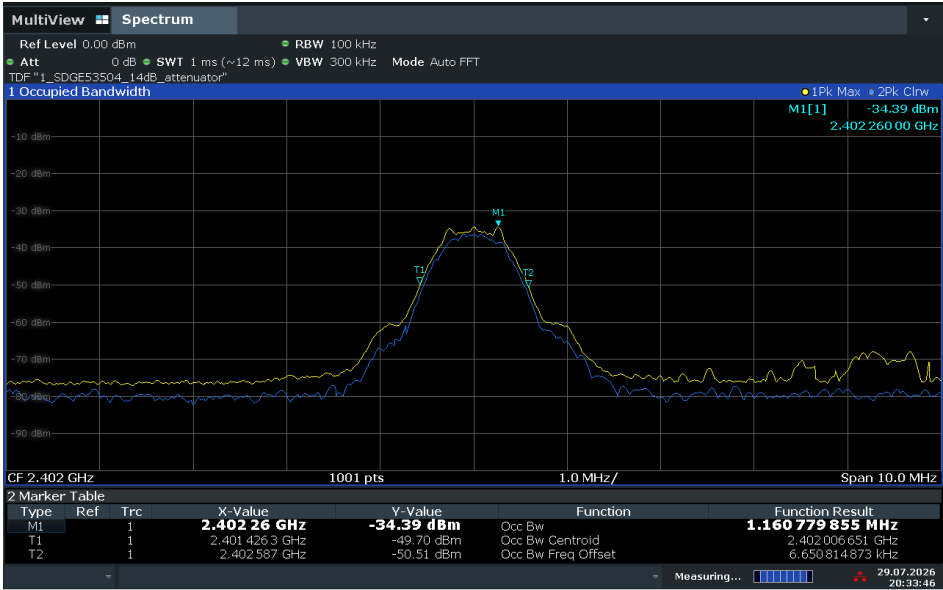


20:29:52 29.07.2026

(2M) High Channel 20 dB Bandwidth

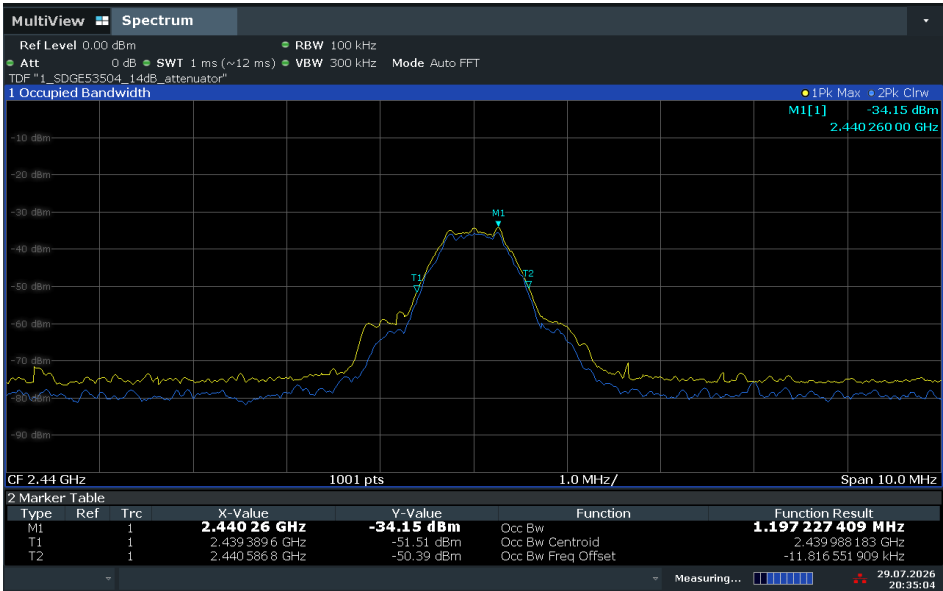


Product Service



20:33:46 29.07.2026

(1M) Low Channel 99% BW

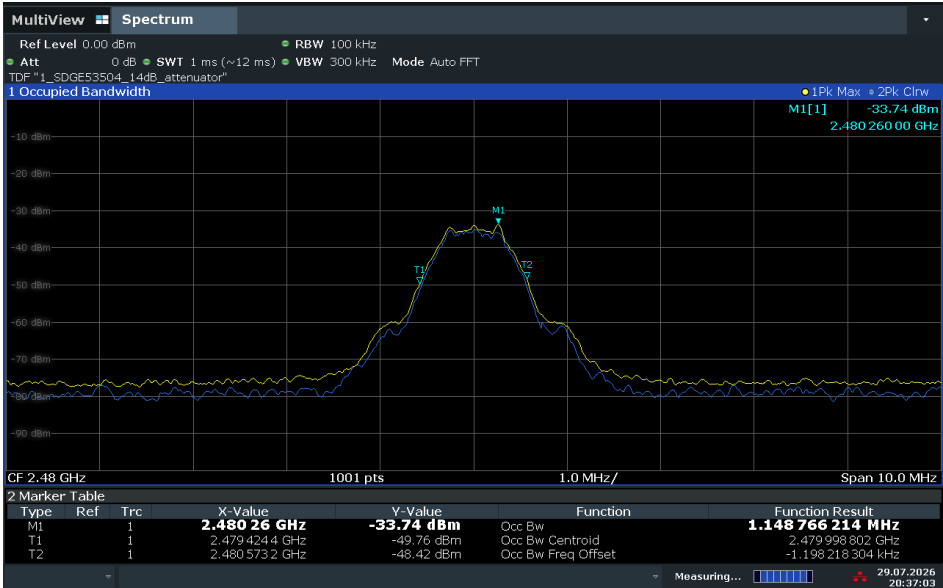


20:35:05 29.07.2026

(1M) Mid Channel 99% BW

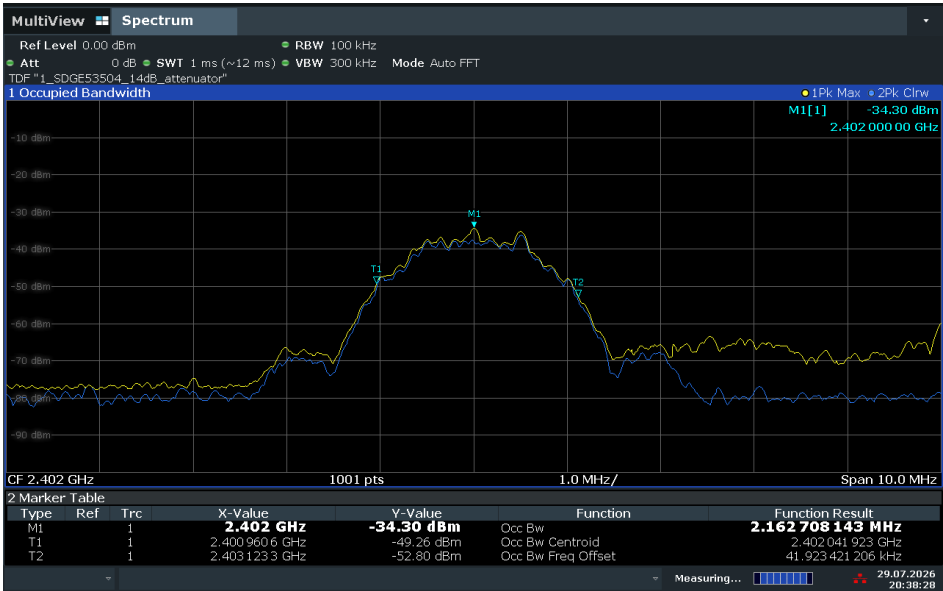


Product Service



20:37:04 29.07.2026

(1M) High Channel 99% BW

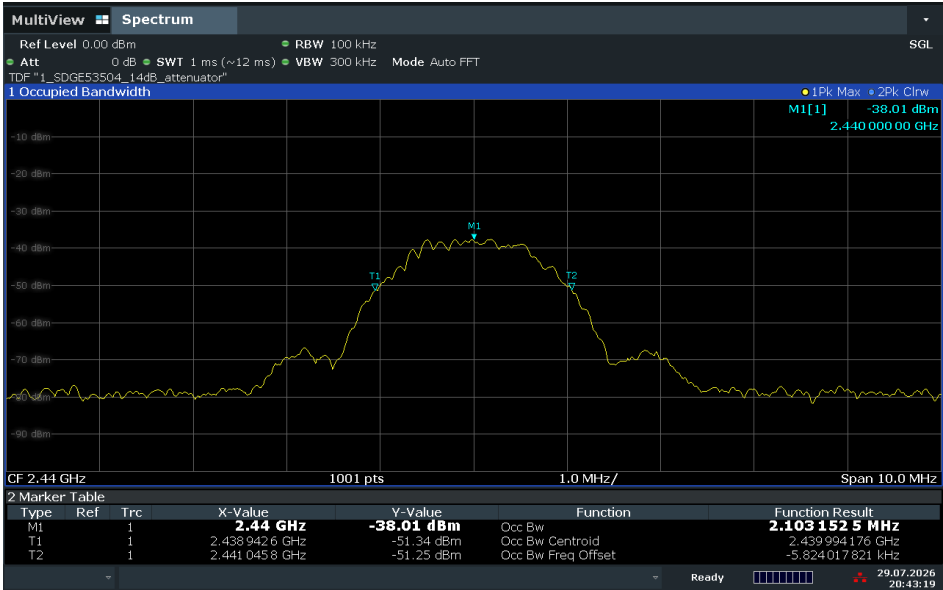


20:38:28 29.07.2026

(2M) Low Channel 99% BW

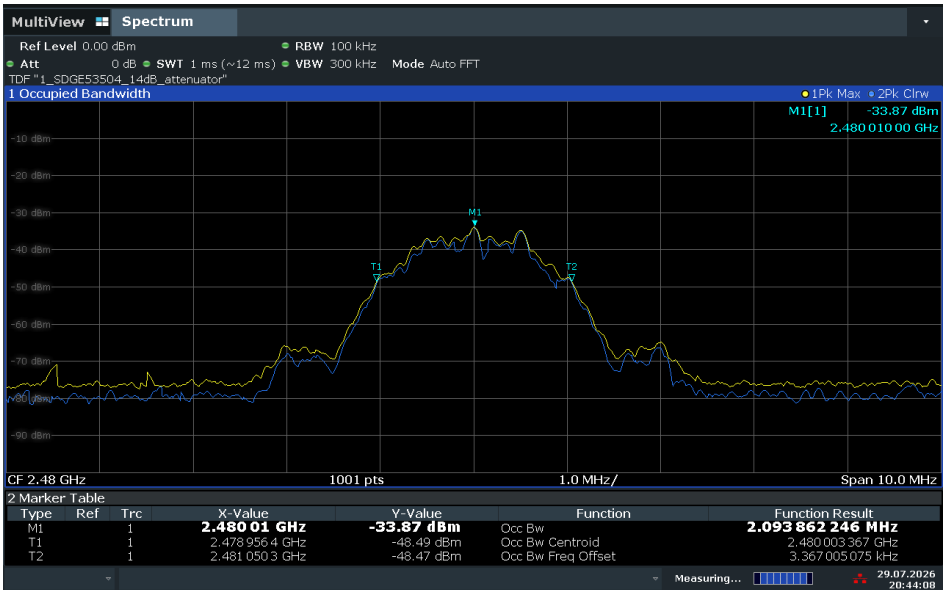


Product Service



20:43:19 29.07.2026

(2M) Mid Channel 99% BW



20:44:08 29.07.2026

(2M) High Channel 99% BW



2.2.9 Test Location and Test Equipment Used

This test was carried out in SR5 (MM)

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Signal & Spectrum Analyzer	Rohde & Schwarz	FSW26	30188	1 year	07-July-2027
Attenuator 14dB atten with blue cable	(-)	5W DC-18GHz 14dB (ATX3518-20) with W17.03 cable	53504	2 years	09-Sept-2027

Table 8

2.3 Field Strength of Fundamental

2.3.1 Specification Reference

FCC 47 CFR Part 15C, ISSED RSS-210 and ISSED RSS-GEN, Clause 15.249 (a), B.10 (a)

2.3.2 Equipment Under Test and Modification State

1365576,1365583 (Radiated Samples) - Modification State - None

2.3.3 Date of Test

20-July-2026 to 24-July-2026

2.3.4 Test Method

- This is a radiated test.
- Test distance of 3 m was used for the fundamental emissions measurement.
- Fundamental only presented. Harmonics (if any) will be evaluated under Section 2.4 of this test report.

2.3.5 Test Setup Diagram Example

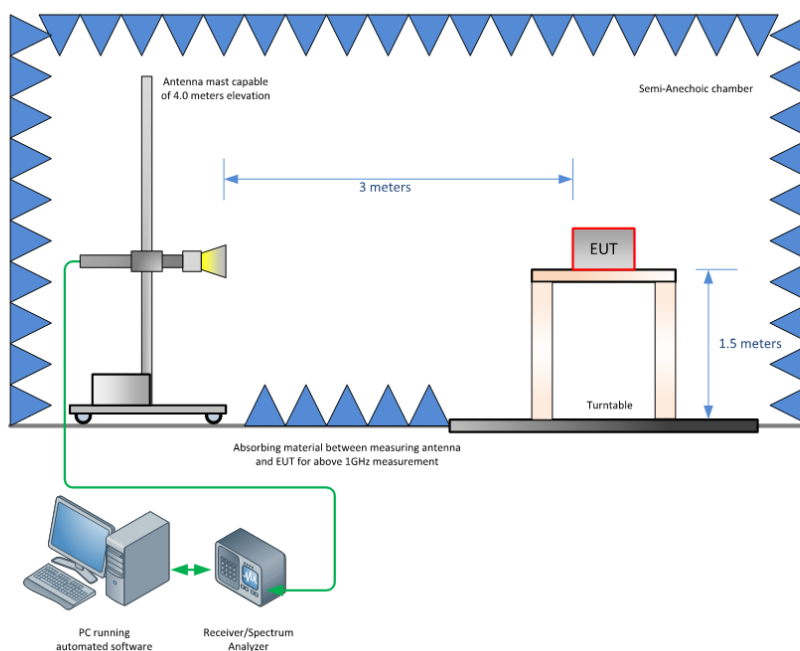


Figure 3 – Radiated Emissions Above 1GHz Example



2.3.6 Environmental Conditions

Ambient Temperature	26.1 °C
Relative Humidity	44.5 %
Atmospheric Pressure	100.0 kPa

2.3.7 Specification Limits

FCC 47 CFR Part 15, Limit Clause 15.249 (a)

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)
902 to 928	50
2400 to 2483.5	50
5725 to 5875	50
24000 to 24250	250

Table 6

Industry Canada RSS-210, Limit Clause B.10 (a)

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

2.3.8 Test Results

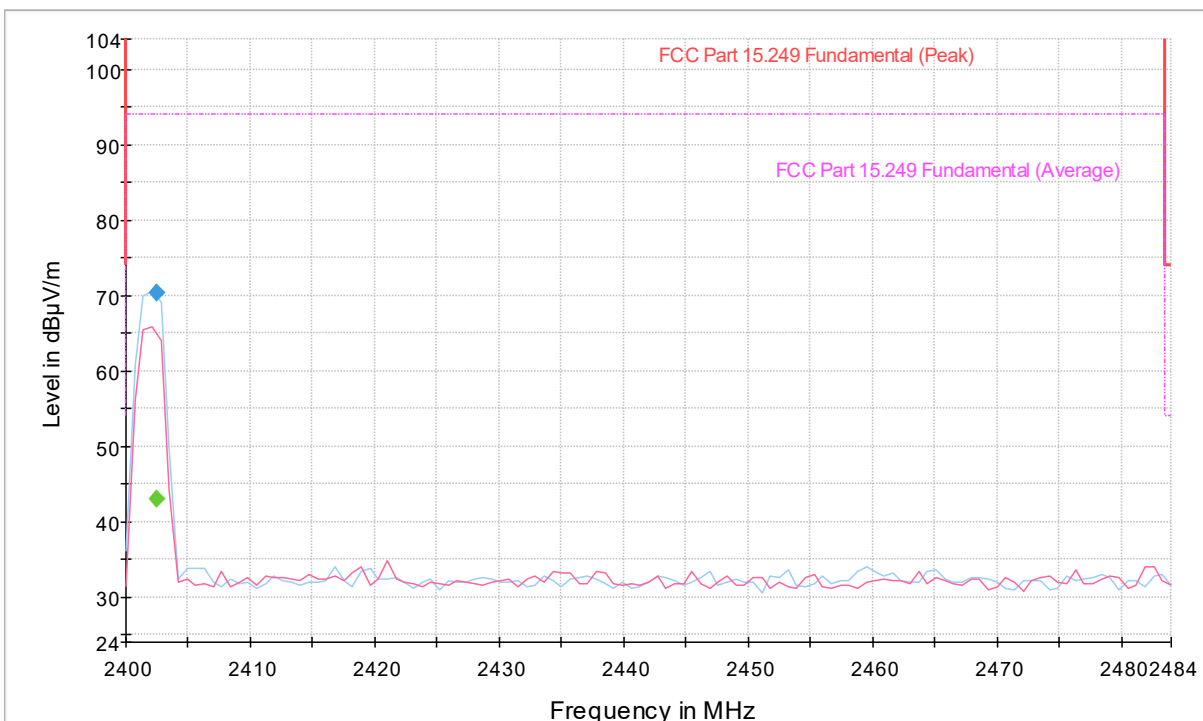
Bluetooth Low Energy – 1Mbps, 2Mbps - TX Mode

Complies. See attached test plot.

Frequency MHz	Field Strength (dBµV/m)	
	Peak (dBuV/m)	Average (dBuV/m)
(1M) 2402	70.32	42.98
(1M) 2440	73.09	47.53
(1M) 2480	74.35	49.71
(2M) 2402	72.11	41.10
(2M) 2440	72.33	44.08
(2M) 2480	74.87	45.42



2.3.9 (1M) Low Channel Fundamental Scan



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.249 Fundamental (Peak) [.\EMI Radiated\]
- FCC Part 15.249 Fundamental (Average) [.\EMI Radiated\]
- Final_Result PK+ [Final_Result.Result:4]
- Final_Result AVG [Final_Result.Result:5]

Peak Data

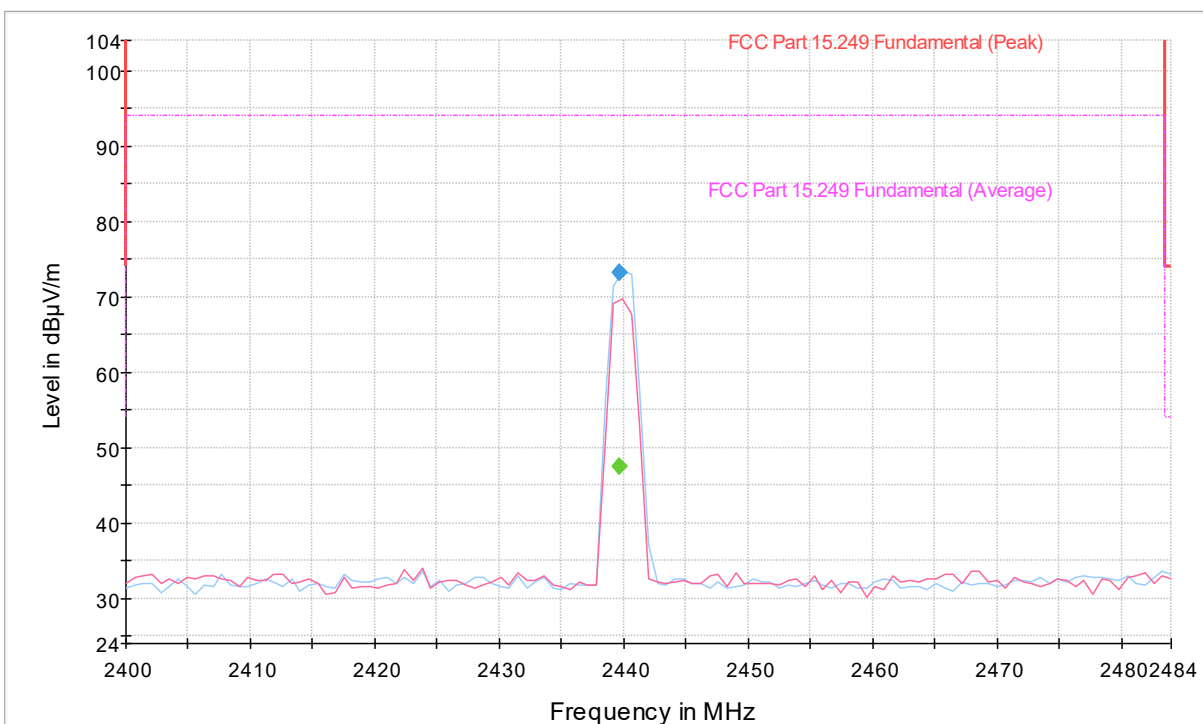
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)
2402.48950	70.32	113.97	43.65	1000.0	1000.000	102.0	H	215.0	-15

Average Data

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB/m)
2402.48950	42.98	93.97	50.99	1000.0	1000.000	102.0	H	215.0	-15



2.3.10 (1M) Mid Channel Fundamental Scan



— Preview Result 1H-PK+ [Preview Result 1H.Result:2]
— Preview Result 1V-PK+ [Preview Result 1V.Result:2]
— FCC Part 15.249 Fundamental (Peak) [..\EMI Radiated\
— FCC Part 15.249 Fundamental (Average) [..\EMI Radiated\
◆ Final_Result PK+ [Final_Result.Result:4]
◆ Final_Result AVG [Final_Result.Result:5]

Peak Data

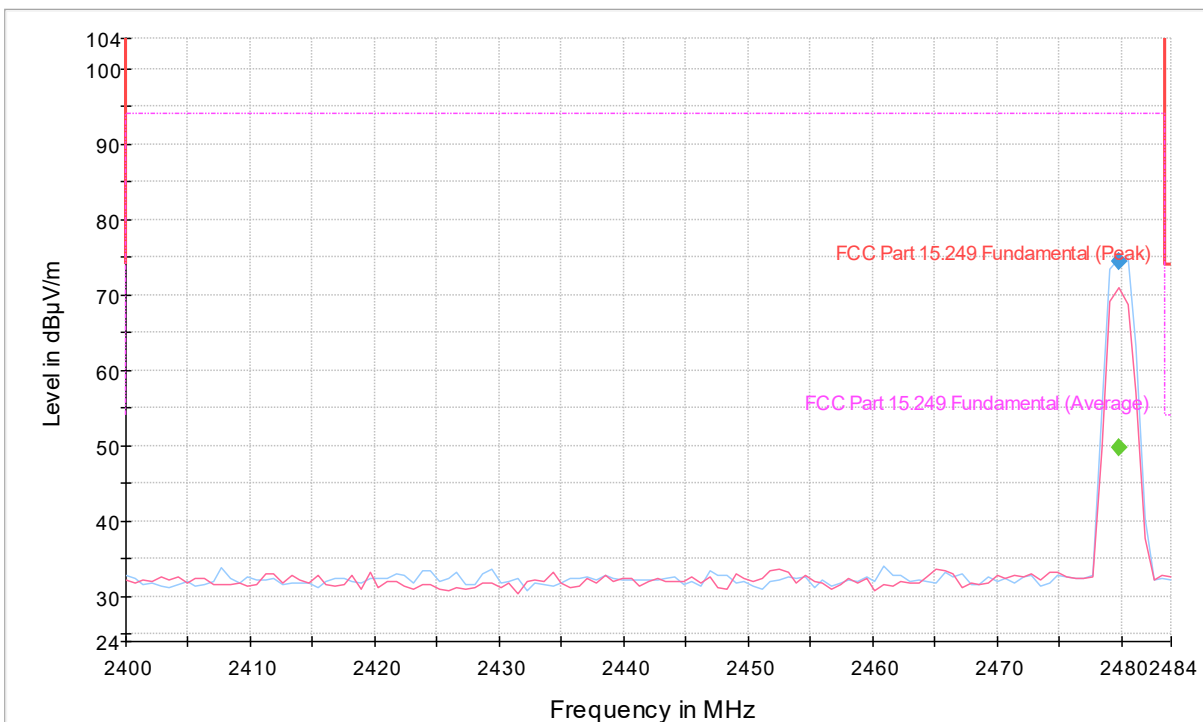
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)
2439.70050	73.09	113.97	40.88	1000.0	1000.000	200.0	H	48.0	-15

Average Data

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB/m)
2439.70050	47.53	93.97	46.44	1000.0	1000.000	200.0	H	48.0	-15



2.3.11 (1M) High Channel Fundamental Scan



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.249 Fundamental (Peak) [..\EMI Radiated\]
- FCC Part 15.249 Fundamental (Average) [..\EMI Radiated\]
- Final_Result PK+ [Final_Result.Result:4]
- Final_Result AVG [Final_Result.Result:5]

Peak Data

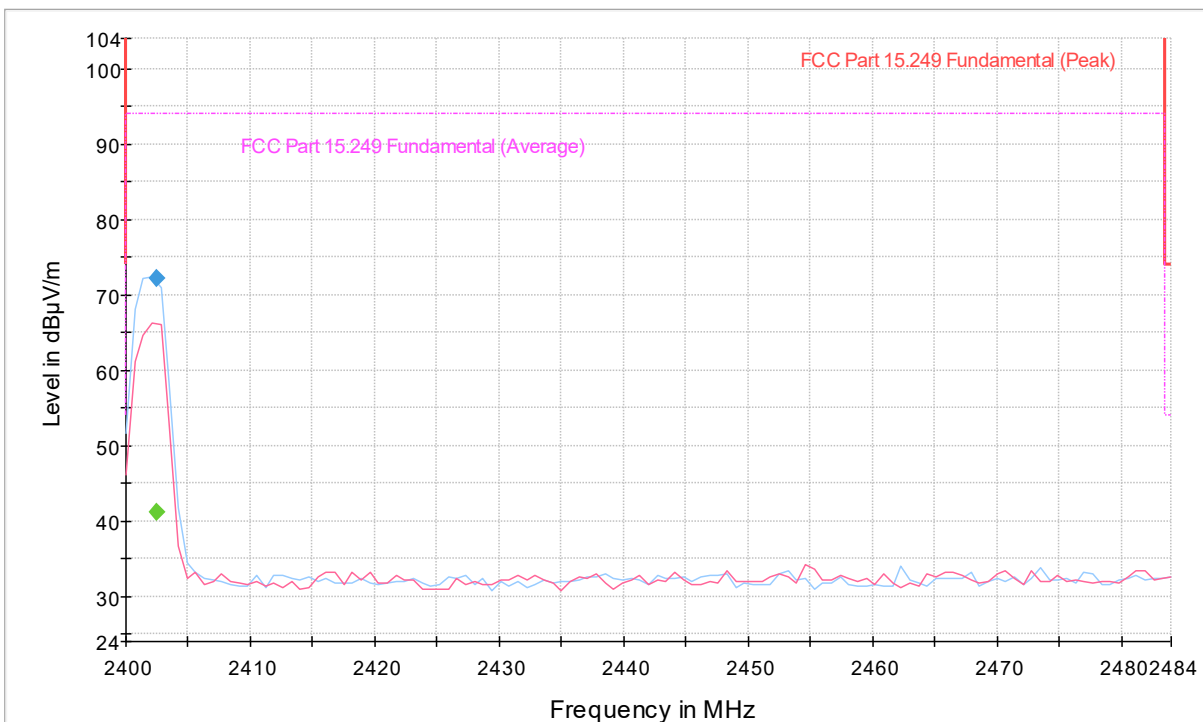
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)
2479.80100	74.35	113.97	39.62	1000.0	1000.000	102.0	H	214.0	-15

Average Data

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB/m)
2479.80100	49.71	93.97	44.26	1000.0	1000.000	102.0	H	214.0	-15



2.3.10 (2M) Low Channel Fundamental Scan



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.249 Fundamental (Peak) [..\EMI Radiated\]
- FCC Part 15.249 Fundamental (Average) [..\EMI Radiated\]
- Final_Result PK+ [Final_Result.Result:4]
- Final_Result AVG [Final_Result.Result:5]

Peak Data

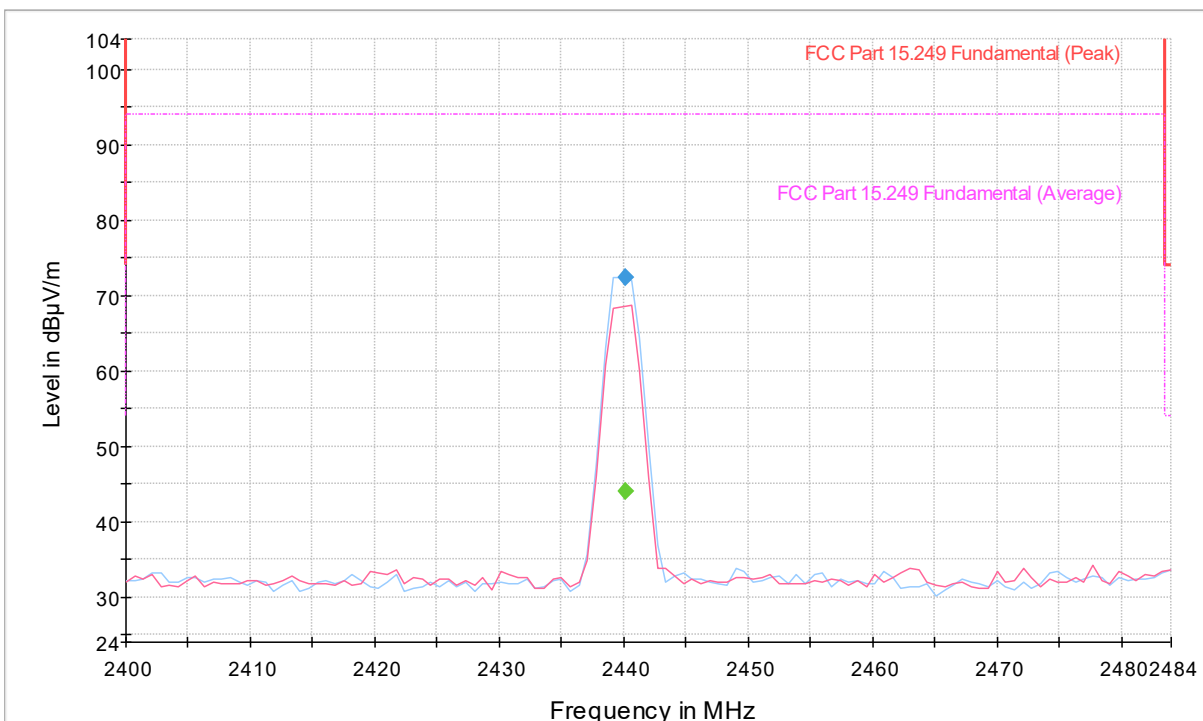
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)
2402.48750	72.11	113.97	41.86	1000.0	1000.000	102.0	H	227.0	-15

Average Data

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB/m)
2402.48750	41.10	93.97	52.87	1000.0	1000.000	102.0	H	227.0	-15



2.3.11 (2M) Mid Channel Fundamental Scan



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.249 Fundamental (Peak) [.\EMI Radiated\]
- FCC Part 15.249 Fundamental (Average) [.\EMI Radiated\]
- Final_Result PK+ [Final_Result.Result:4]
- Final_Result AVG [Final_Result.Result:5]

Peak Data

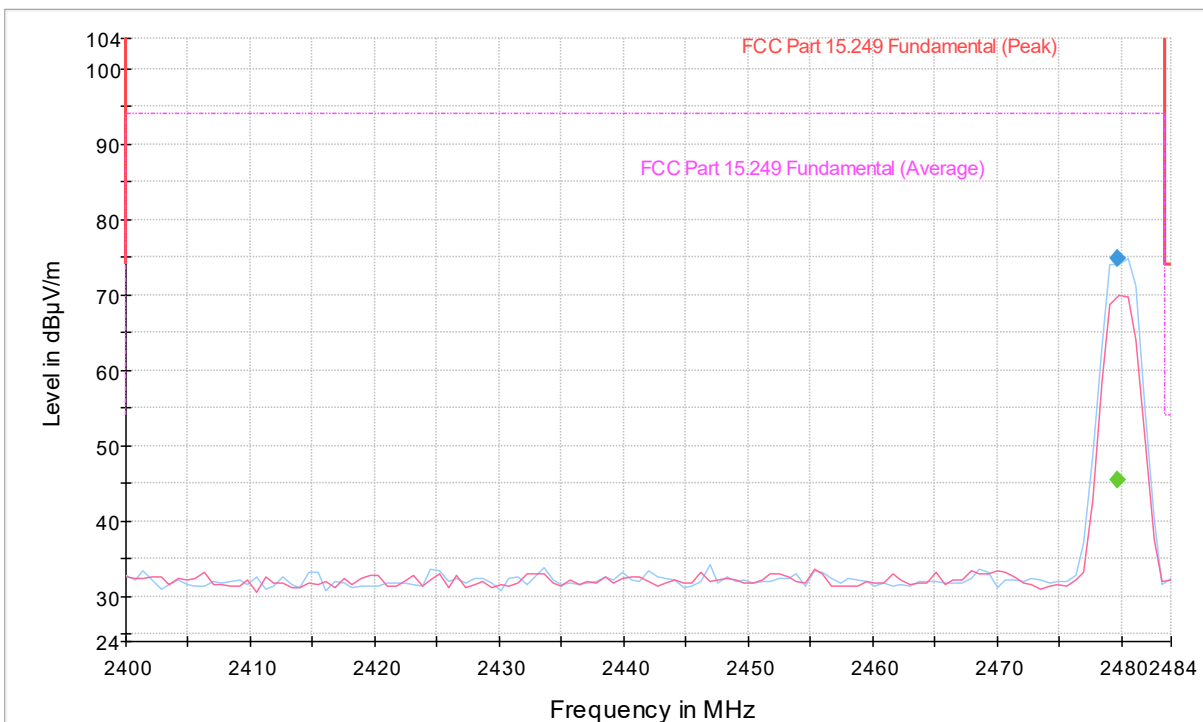
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)
2440.10250	72.33	113.97	41.64	1000.0	1000.000	200.0	H	274.0	-15

Average Data

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB/m)
2440.10250	44.08	93.97	49.89	1000.0	1000.000	200.0	H	274.0	-15



2.3.12 (2M) High Channel Fundamental Scan



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.249 Fundamental (Peak) [..\EMI Radiated\]
- FCC Part 15.249 Fundamental (Average) [..\EMI Radiated\]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)
2479.69950	74.87	113.97	39.10	1000.0	1000.000	102.0	H	216.0	-15

Average Data

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB/m)
2479.69950	45.42	93.97	48.55	1000.0	1000.000	102.0	H	216.0	-15



2.3.13 Test Location and Test Equipment Used

This test was carried out in SR5 (MM)

Instrument	Manufacturer	Type No	TM-ID	Calibration Period (months)	Calibration Expires
ESW44 EMI Test Receiver	Rohde & Schwarz	ESW44 with HF Option	68302	1 year	17-Feb-2027
1-10 GHz Broad-Band Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9120 B	69563	2 year	16-Dec-2027
TUV SSU 010 PLC US	TUV SUD UK	TUV SSU 010 PLC US	N/A	1 year	14-Apr-2027

Table 7

2.4 Field Strength of Emissions

2.4.1 Specification Reference

FCC 47 CFR Part 15C, ISSED RSS-210 and ISSED RSS-GEN, Clause 15.249 (a)(d), B.10 (a)

2.4.2 Equipment Under Test and Modification State

1365576,1365583 (Radiated Samples)- Modification State - None

2.4.3 Date of Test

20-July-2026 to 24-July-2026

2.4.4 Test Method

- This is a radiated test.
- The spectrum was searched from 9kHz to 26GHz.
- Worse case channel (2 Mbps) is determined from the measurements in Section 2.3
- Measurement was done using EMC32 automated software.

2.4.5 Test Setup Diagram Example

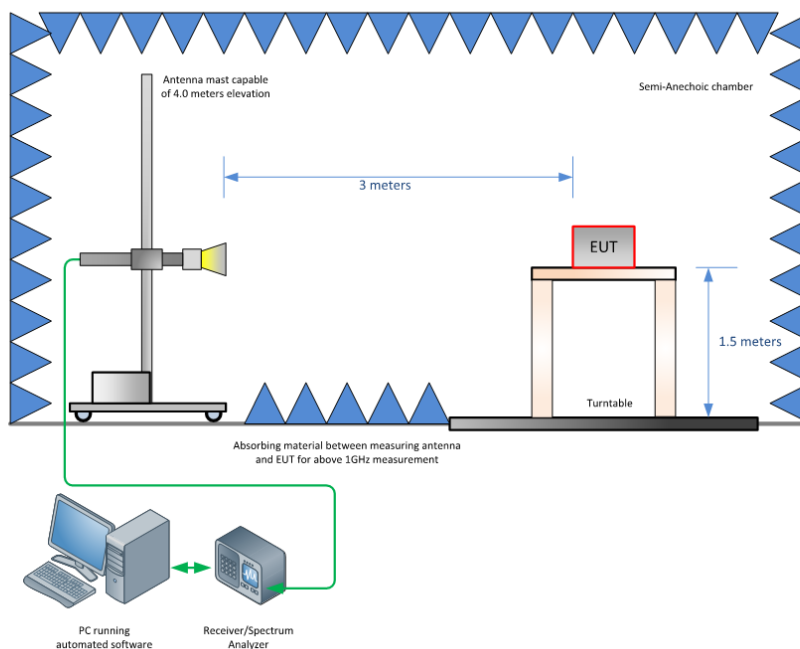


Figure 3 – Radiated Emissions Above 1GHz Example



2.4.6 Environmental Conditions

Ambient Temperature	26.1 °C
Relative Humidity	44.5 %
Atmospheric Pressure	100.0 kPa

2.4.7 Specification Limits

Bluetooth Low Energy – 1Mbps, 2Mbps - TX Mode

FCC 47 CFR Part 15, Limit Clause 15.249 (d)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

FCC 47 CFR Part 15, Limit Clause 15.209

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

Table 8

Industry Canada RSS-210, Limit Clause B.10

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.

Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.



Industry Canada RSS-GEN, Limit Clause 8.9

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

Table 9

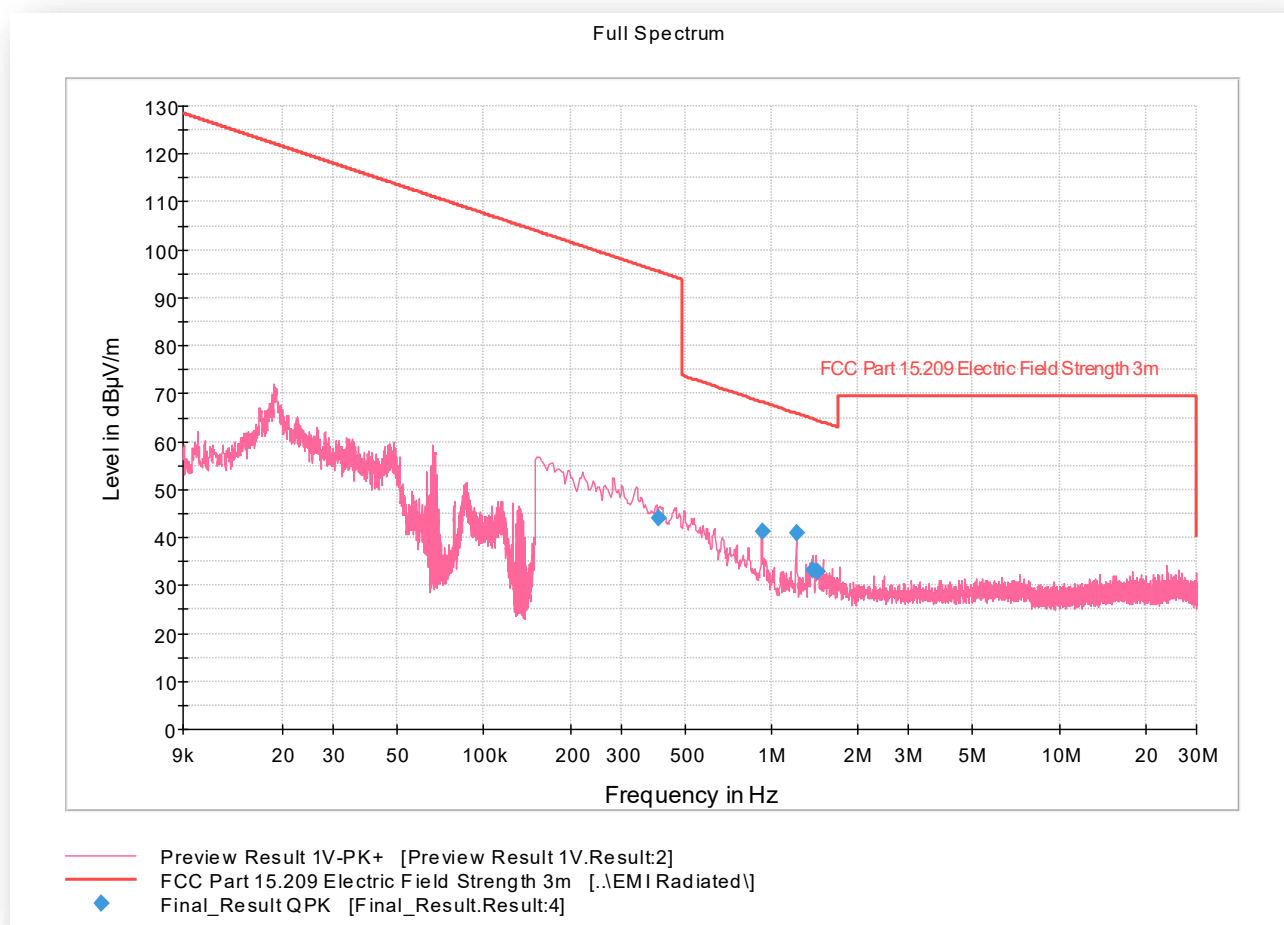
2.4.8 Test Results

Bluetooth Low Energy – 1Mbps, 2Mbps - TX Mode

Complies. See attached test plot.



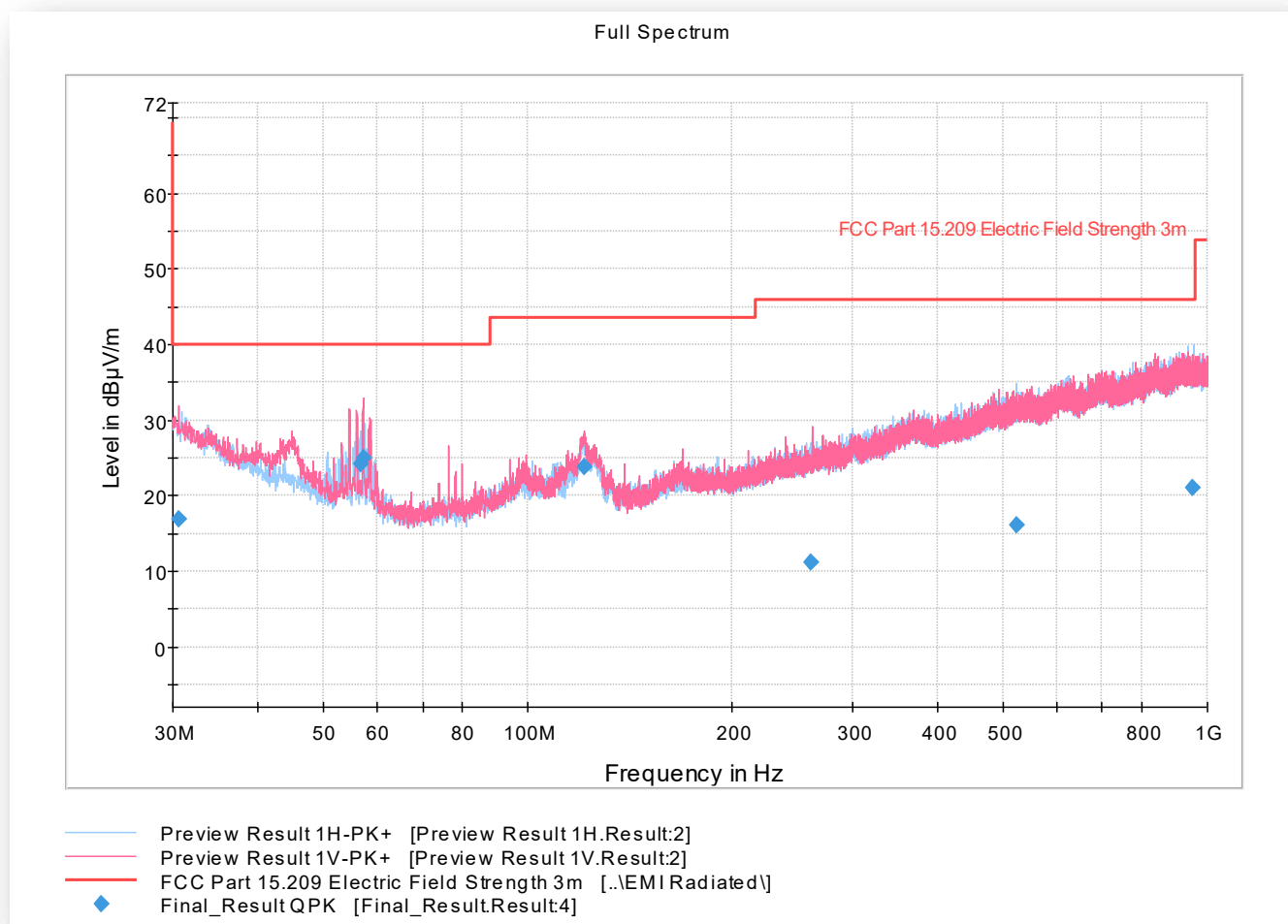
2.4.9 (Worst case channel) 9kHz to 30MHz Radiated Emission Test



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Height (cm)	Azimuth (degrees)	Corr. (dB/m)
0.404760	44.07	95.46	51.39	1000.0	9.000	400.0	H	174.0	19
0.926470	41.19	68.26	27.07	1000.0	9.000	400.0	H	122.0	20
1.222497	41.07	65.85	24.78	1000.0	9.000	400.0	H	122.0	20
1.397776	33.34	64.69	31.35	1000.0	9.000	400.0	H	161.0	20
1.443387	32.78	64.41	31.62	1000.0	9.000	400.0	H	168.0	20



2.4.10 (Worst case channel) Below 30MHz Radiated Emission Test



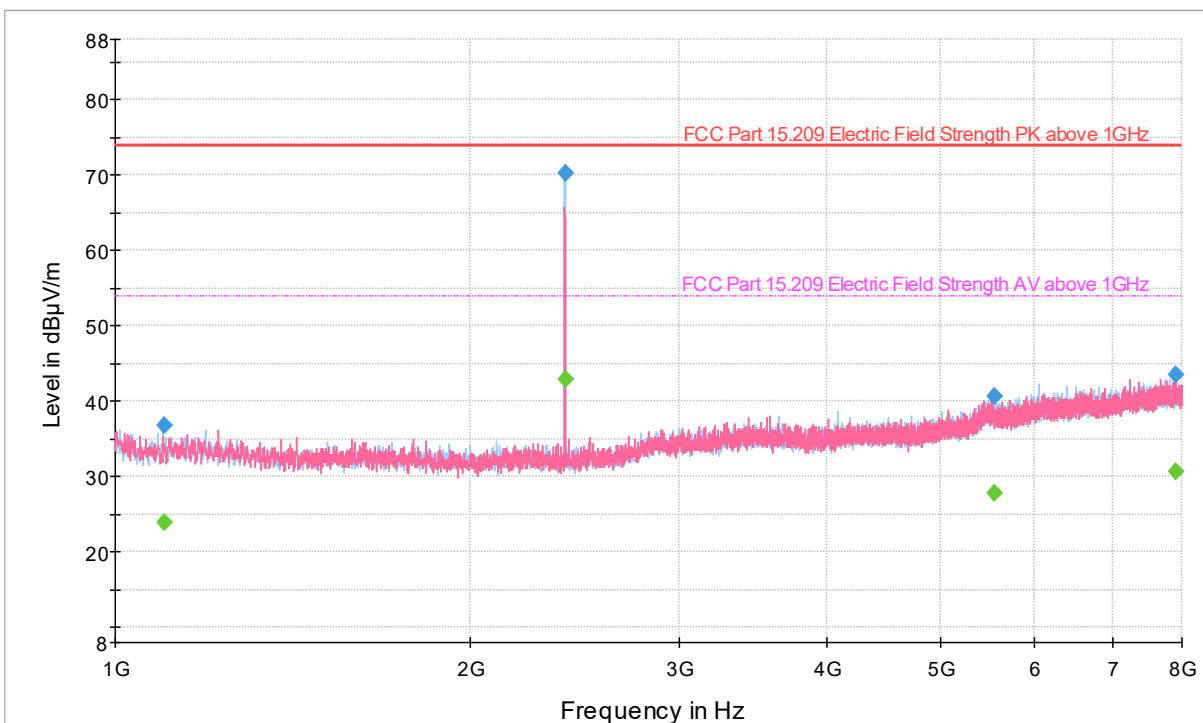


Quasi-Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Height (cm)	Azimuth (degrees)	Corr. (dB/m)
30.640000	16.97	40.00	23.03	15000.0	120.000	225.0	V	121.0	22
56.691333	24.25	40.00	15.75	15000.0	120.000	107.0	V	0.0	14
57.224667	25.05	40.00	14.95	15000.0	120.000	100.0	V	187.0	14
120.88900	23.90	43.50	19.60	15000.0	120.000	275.0	V	73.0	14
261.05900	11.10	46.00	34.90	15000.0	120.000	116.0	V	178.0	19
523.31200	16.11	46.00	29.89	15000.0	120.000	410.0	H	0.0	25
952.62200	21.03	46.00	24.97	15000.0	120.000	213.0	H	167.0	30



2.4.11 (1M Low Channel) 1GHz to 8GHz Radiated Emission Test



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\]
- FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

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)
1100.104000	36.80	73.90	37.10	1000.0	1000.000	102.0	H	81.0	-14
2402.489500	70.32	73.90	3.58	1000.0	1000.000	102.0	H	215.0	-15
5549.724000	40.63	73.90	33.27	1000.0	1000.000	300.0	H	304.0	-10
7903.232500	43.52	73.90	30.38	1000.0	1000.000	102.0	H	194.0	-7

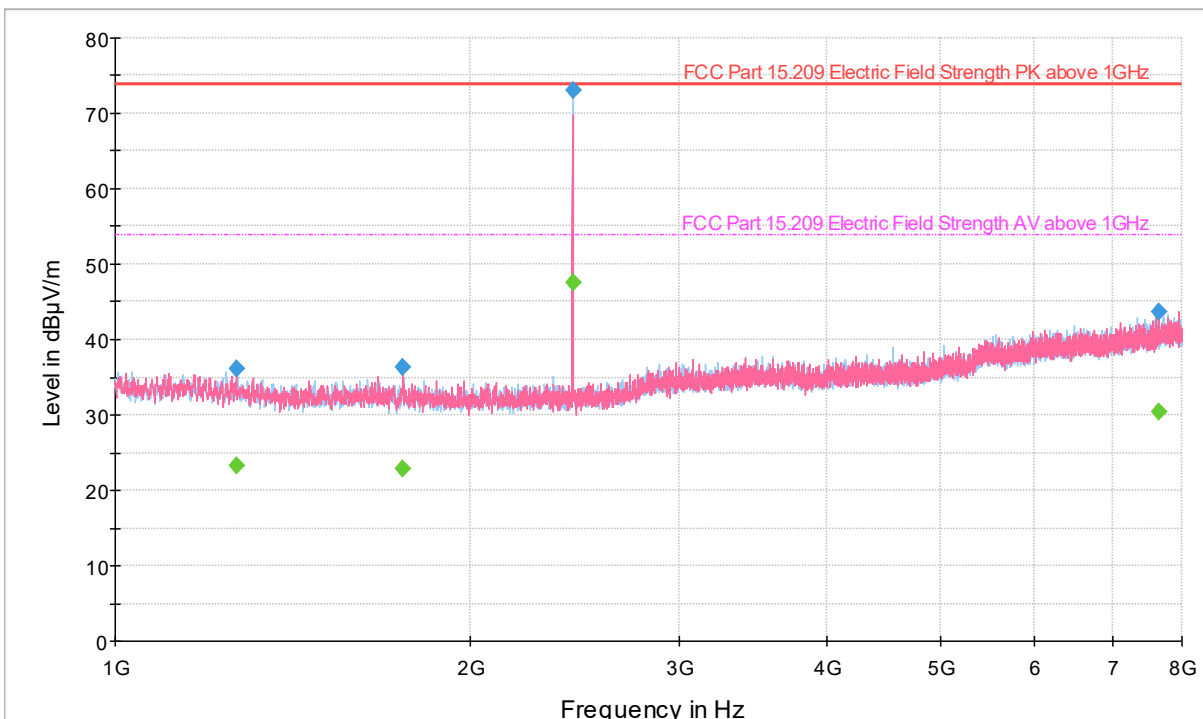


Product Service

Average Data

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1100.104000	23.90	53.90	30.00	1000.0	1000.000	102.0	H	81.0	-14
2402.489500	42.98	53.90	10.92	1000.0	1000.000	102.0	H	215.0	-15
5549.724000	27.77	53.90	26.13	1000.0	1000.000	300.0	H	304.0	-10
7903.232500	30.63	53.90	23.27	1000.0	1000.000	102.0	H	194.0	-7

2.4.12 (1M Mid Channel) 1GHz to 8GHz Radiated Emission Test



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\]
- FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

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)
1267.264000	36.22	73.90	37.68	1000.0	1000.000	102.0	H	26.0	-14
1750.663000	36.24	73.90	37.66	1000.0	1000.000	350.0	V	217.0	-15
2439.700500	73.09	73.90	0.81	1000.0	1000.000	200.0	H	48.0	-15
7637.191000	43.76	73.90	30.14	1000.0	1000.000	102.0	V	133.0	-8



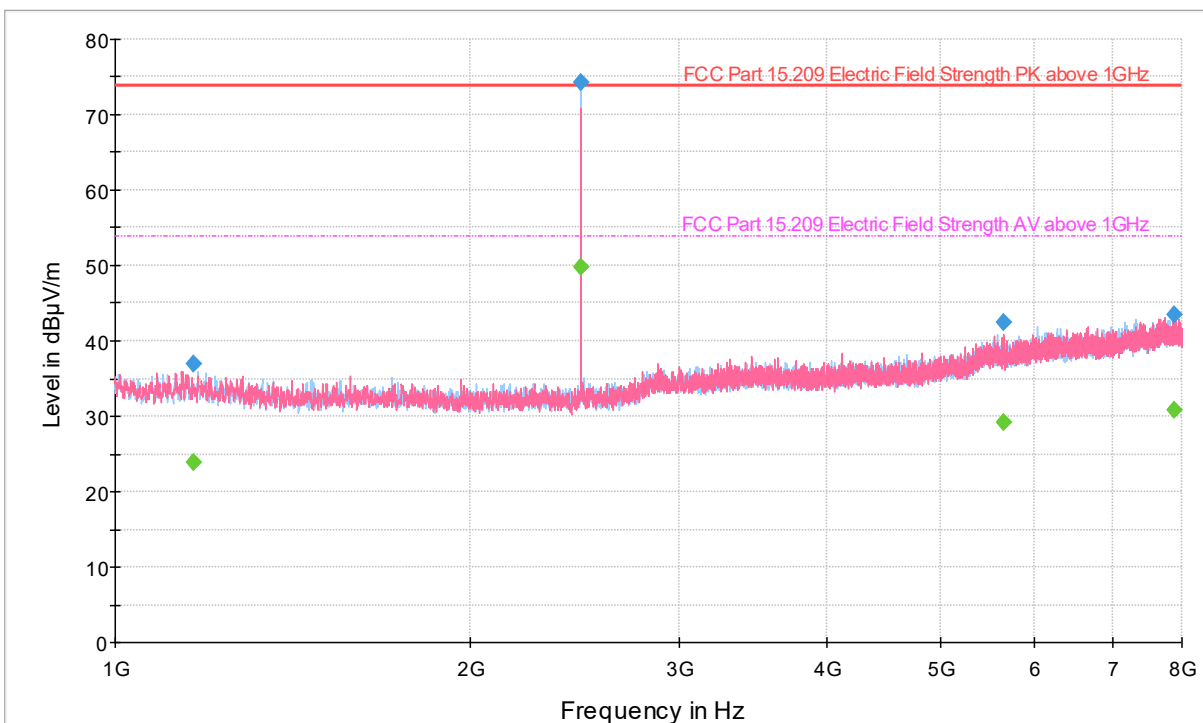
Product Service

Average Data

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1267.264000	23.32	53.90	30.58	1000.0	1000.000	102.0	H	26.0	-14
1750.663000	22.81	53.90	31.09	1000.0	1000.000	350.0	V	217.0	-15
2439.700500	47.53	53.90	6.37	1000.0	1000.000	200.0	H	48.0	-15
7637.191000	30.34	53.90	23.56	1000.0	1000.000	102.0	V	133.0	-8



2.4.13 (1M High Channel) 1GHz to 8GHz Radiated Emission Test



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\]
- FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

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)
1165.573000	37.00	73.90	36.90	1000.0	1000.000	350.0	H	72.0	-14
2479.801000	74.35	73.90	-0.45	1000.0	1000.000	102.0	H	214.0	-15
5655.043500	42.40	73.90	31.50	1000.0	1000.000	300.0	V	165.0	-10
7882.495000	43.44	73.90	30.46	1000.0	1000.000	102.0	V	177.0	-7

Test Notes: Fundamental at 2479.801MHz will be ignored for this test.



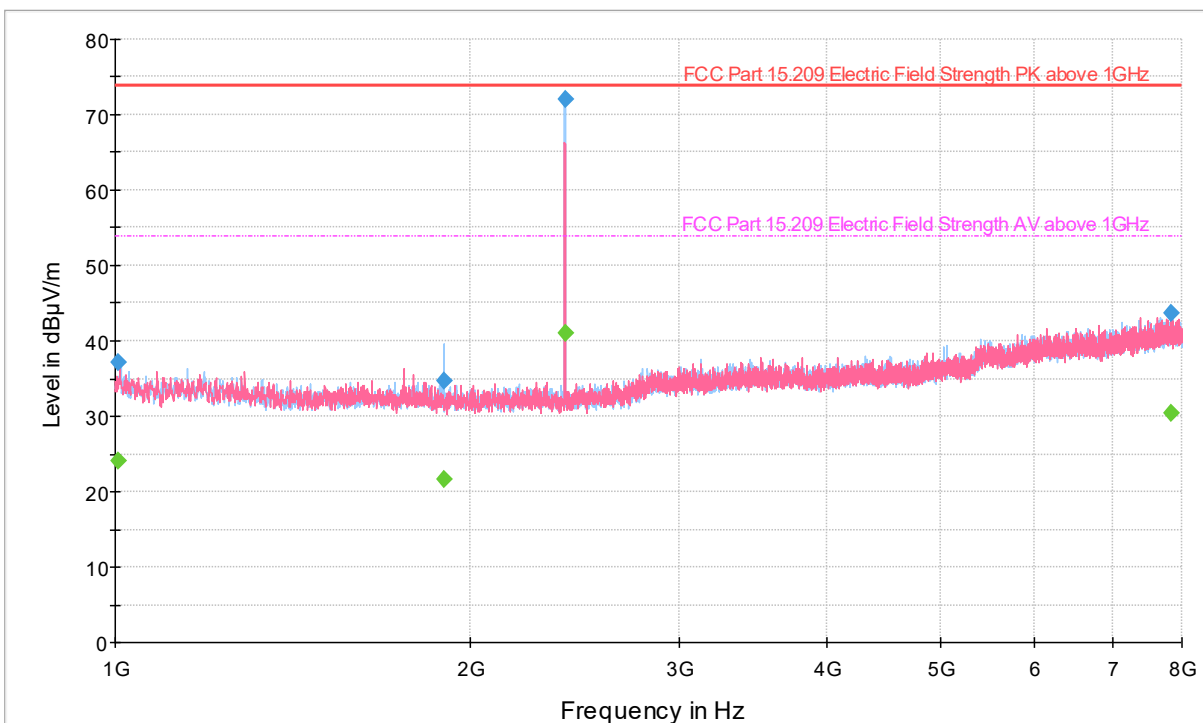
Average Data

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1165.573000	23.87	53.90	30.03	1000.0	1000.000	350.0	H	72.0	-14
2479.801000	49.71	53.90	4.19	1000.0	1000.000	102.0	H	214.0	-15
5655.043500	29.23	53.90	24.67	1000.0	1000.000	300.0	V	165.0	-10
7882.495000	30.81	53.90	23.09	1000.0	1000.000	102.0	V	177.0	-7

Test Notes: Fundamental at 2479.801MHz will be ignored for this test.



2.4.14 (2M Low Channel) 1GHz to 8GHz Radiated Emission Test



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\]
- FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\]
- Final_Result PK+ [Final_Result.Result:4]
- Final_Result AVG [Final_Result.Result:5]

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)
1004.966000	37.06	73.90	36.84	1000.0	1000.000	102.0	H	109.0	-13
1899.915000	34.68	73.90	39.22	1000.0	1000.000	350.0	H	44.0	-15
2402.487500	72.11	73.90	1.79	1000.0	1000.000	102.0	H	227.0	-15
7839.789500	43.76	73.90	30.14	1000.0	1000.000	200.0	V	291.0	-7



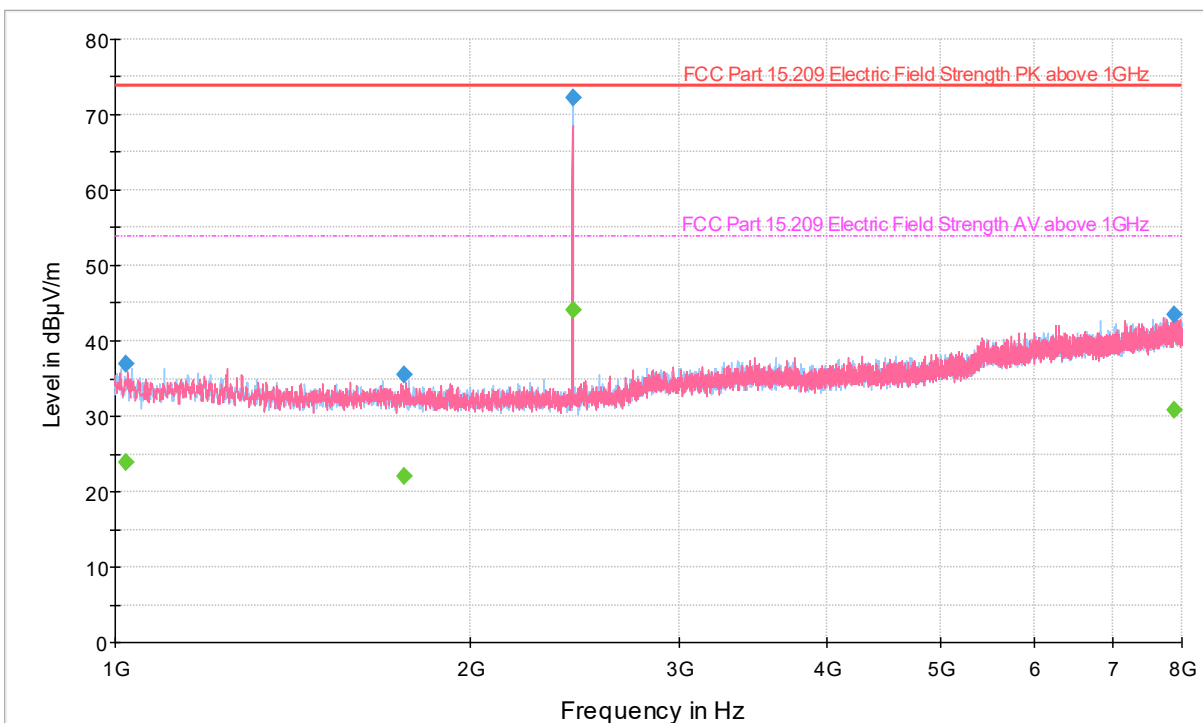
Product Service

Average Data

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1004.966000	24.12	53.90	29.78	1000.0	1000.000	102.0	H	109.0	-13
1899.915000	21.56	53.90	32.34	1000.0	1000.000	350.0	H	44.0	-15
2402.487500	41.10	53.90	12.80	1000.0	1000.000	102.0	H	227.0	-15
7839.789500	30.46	53.90	23.44	1000.0	1000.000	200.0	V	291.0	-7



2.4.15 (2M Mid Channel) 1GHz to 8GHz Radiated Emission Test



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\]
- FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\]
- Final_Result PK+ [Final_Result.Result:4]
- Final_Result AVG [Final_Result.Result:5]

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)
1020.478000	36.98	73.90	36.92	1000.0	1000.000	102.0	H	311.0	-14
1755.586000	35.52	73.90	38.38	1000.0	1000.000	102.0	H	199.0	-15
2440.102500	72.33	73.90	1.57	1000.0	1000.000	200.0	H	274.0	-15
7887.585000	43.52	73.90	30.38	1000.0	1000.000	300.0	V	151.0	-7



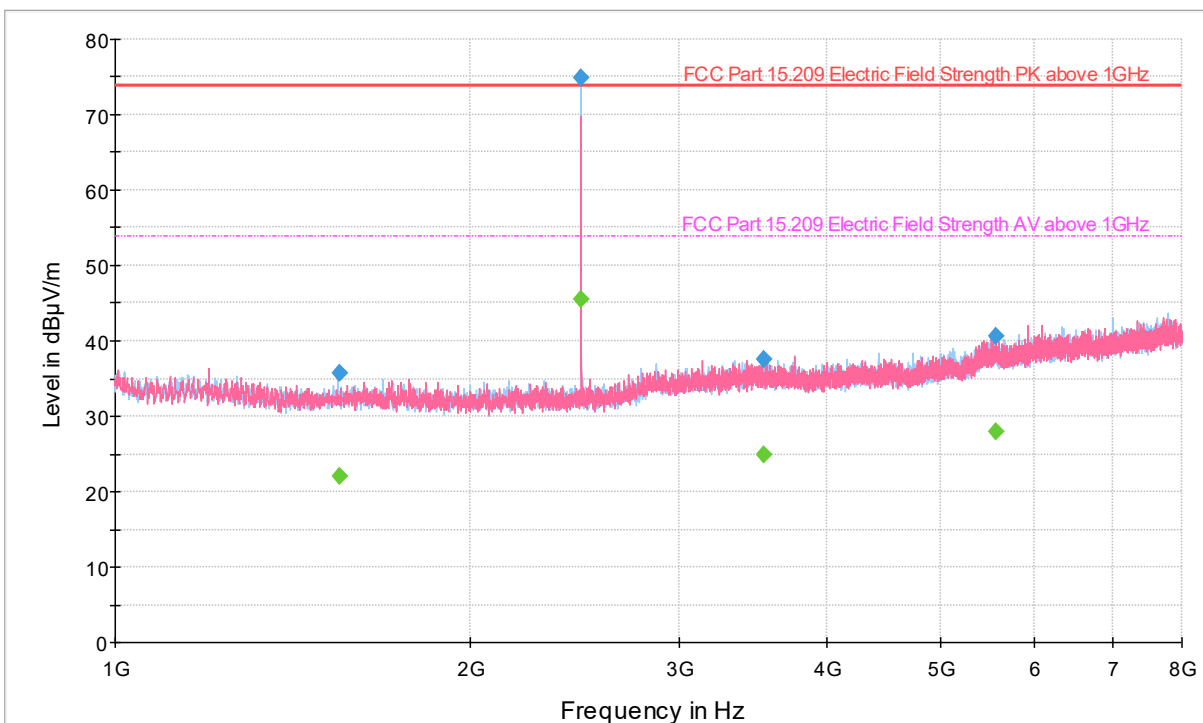
Product Service

Average Data

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1020.478000	23.96	53.90	29.94	1000.0	1000.000	102.0	H	311.0	-14
1755.586000	22.08	53.90	31.82	1000.0	1000.000	102.0	H	199.0	-15
2440.102500	44.08	53.90	9.82	1000.0	1000.000	200.0	H	274.0	-15
7887.585000	30.73	53.90	23.17	1000.0	1000.000	300.0	V	151.0	-7



2.4.16 (2M High Channel) 1GHz to 8GHz Radiated Emission Test



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\]
- FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

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)
1547.786500	35.77	73.90	38.13	1000.0	1000.000	102.0	H	30.0	-15
2479.699500	74.87	73.90	-0.97	1000.0	1000.000	102.0	H	216.0	-15
3540.260000	37.47	73.90	36.43	1000.0	1000.000	102.0	V	247.0	-12
5567.919000	40.69	73.90	33.21	1000.0	1000.000	350.0	H	11.0	-10



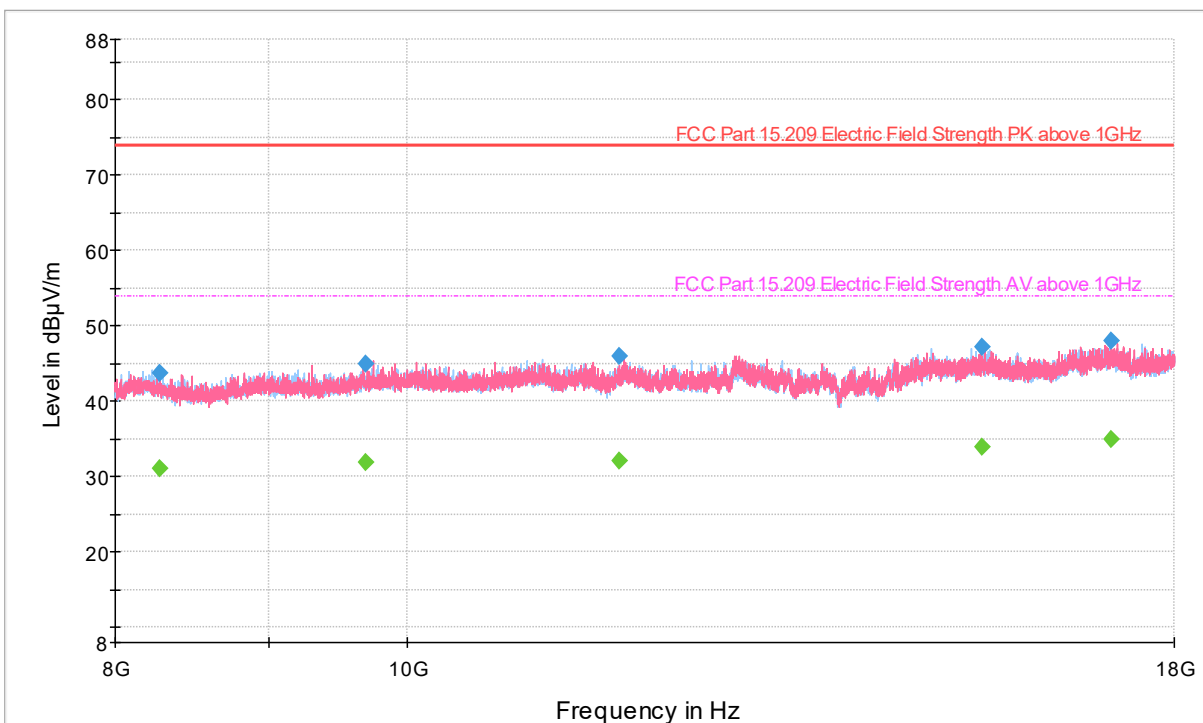
Product Service

Average Data

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1547.786500	22.03	53.90	31.87	1000.0	1000.000	102.0	H	30.0	-15
2479.699500	45.42	53.90	8.48	1000.0	1000.000	102.0	H	216.0	-15
3540.260000	24.82	53.90	29.08	1000.0	1000.000	102.0	V	247.0	-12
5567.919000	28.05	53.90	25.85	1000.0	1000.000	350.0	H	11.0	-10



2.4.17 (1M Low Channel) 8GHz to 18GHz Radiated Emissions



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\]
- FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

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)
8278.010000	43.73	73.90	30.17	1000.0	1000.000	200.0	H	7.0	-8
9694.325000	44.98	73.90	28.92	1000.0	1000.000	102.0	V	266.0	-7
11768.128000	45.95	73.90	27.95	1000.0	1000.000	200.0	V	338.0	-6
15534.203000	47.19	73.90	26.71	1000.0	1000.000	300.0	V	314.0	-4
17142.260000	48.07	73.90	25.83	1000.0	1000.000	102.0	V	104.0	-2



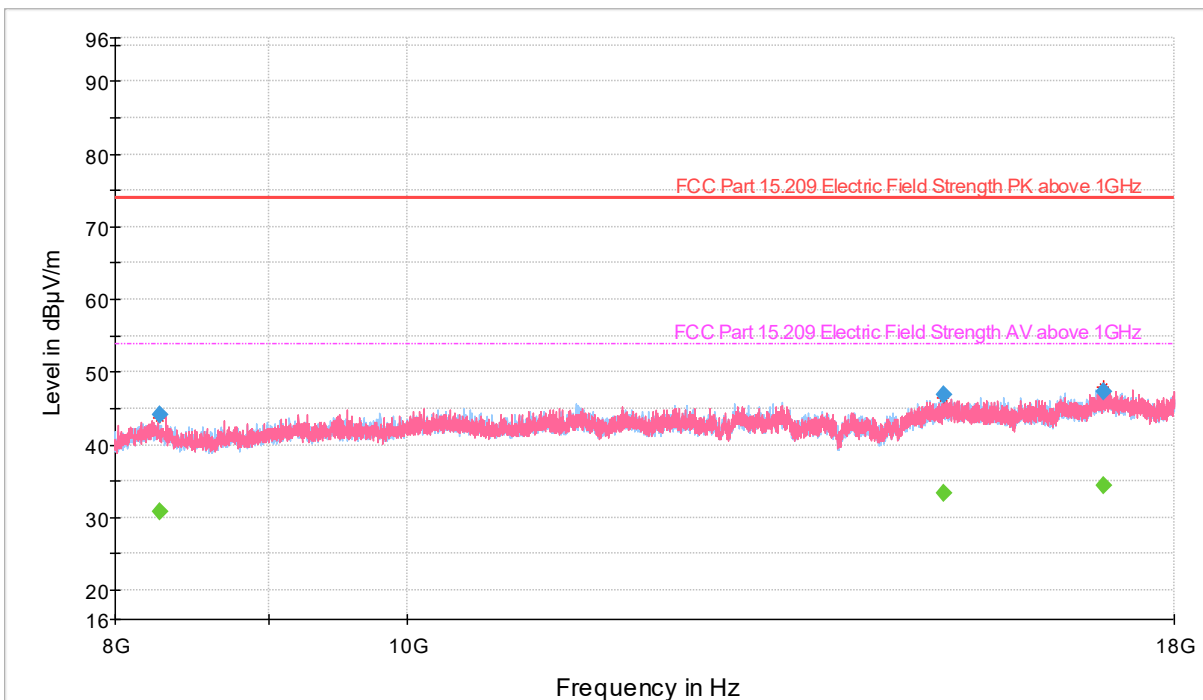
Product Service

Average Data

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8278.010000	31.02	53.90	22.88	1000.0	1000.000	200.0	H	7.0	-8
9694.325000	31.89	53.90	22.01	1000.0	1000.000	102.0	V	266.0	-7
11768.128000	32.11	53.90	21.79	1000.0	1000.000	200.0	V	338.0	-6
15534.203000	33.96	53.90	19.94	1000.0	1000.000	300.0	V	314.0	-4
17142.260000	34.88	53.90	19.02	1000.0	1000.000	102.0	V	104.0	-2



2.4.18 (1M Mid Channel) 8GHz to 18GHz Radiated Emissions



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- * PK+ [Critical_Freqs.Result:4]
- FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\]
- FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

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)
8276.432000	44.17	73.90	29.73	1000.0	1000.000	102.0	V	130.0	-8
15081.265000	46.83	73.90	27.07	1000.0	1000.000	102.0	H	81.0	-4
17051.712000	47.37	73.90	26.53	1000.0	1000.000	102.0	V	107.0	-2



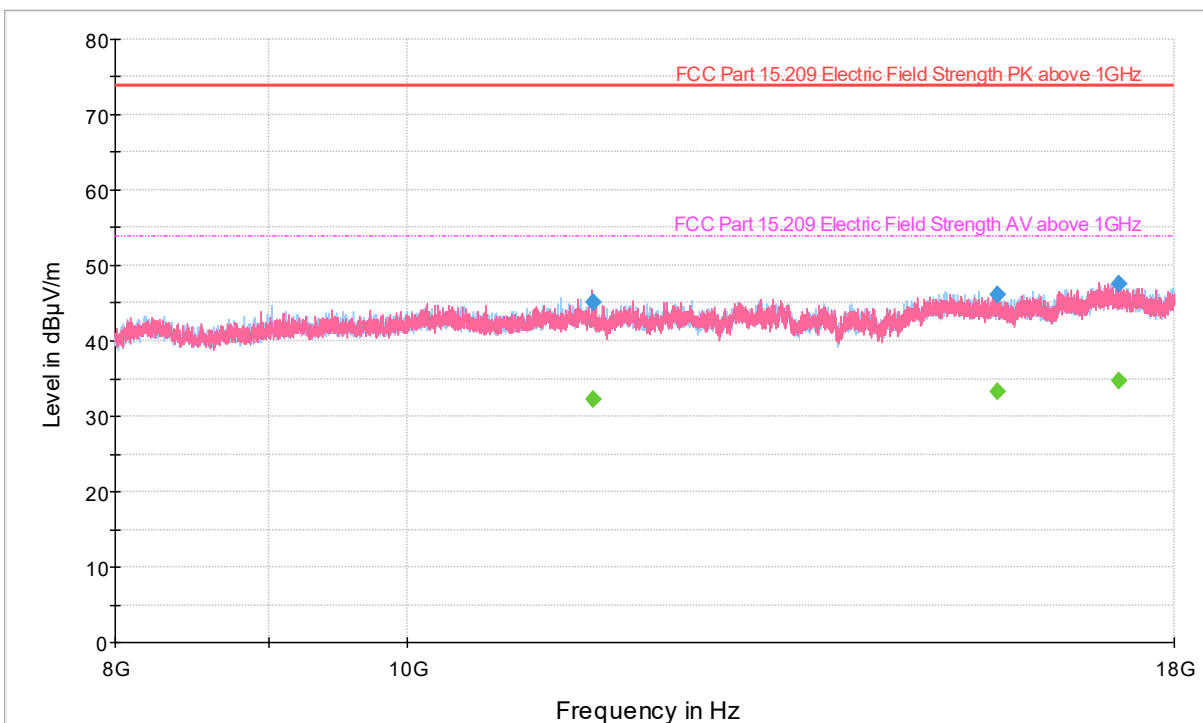
Product Service

Average Data

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8276.432000	30.75	53.90	23.15	1000.0	1000.000	102.0	V	130.0	-8
15081.265000	33.42	53.90	20.48	1000.0	1000.000	102.0	H	81.0	-4
17051.712000	34.51	53.90	19.39	1000.0	1000.000	102.0	V	107.0	-2



2.4.19 (1M High Channel) 8GHz to 18GHz Radiated Emissions



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\]
- FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\]
- Final_Result PK+ [Final_Result.Result:4]
- Final_Result AVG [Final_Result.Result:5]

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)
11531.992000	45.18	73.90	28.72	1000.0	1000.000	300.0	V	20.0	-6
15727.434000	46.17	73.90	27.73	1000.0	1000.000	200.0	H	235.0	-4
17260.018000	47.49	73.90	26.41	1000.0	1000.000	200.0	H	207.0	-2



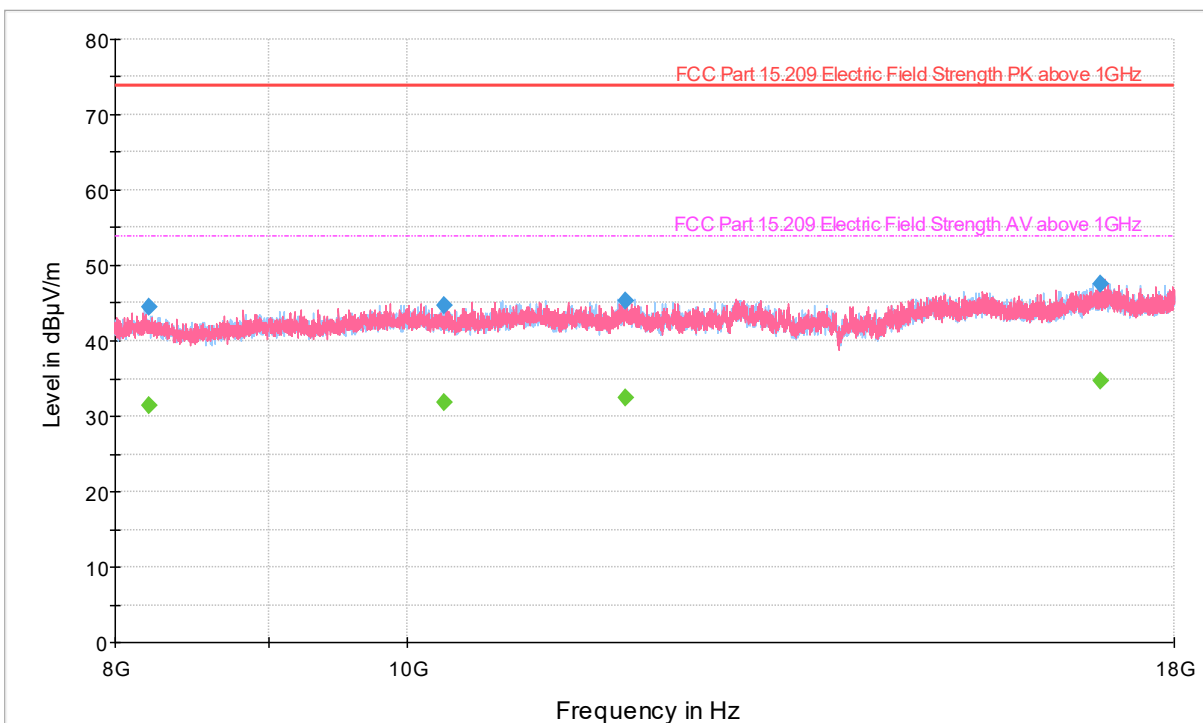
Product Service

Average Data

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11531.992000	32.32	53.90	21.58	1000.0	1000.000	300.0	V	20.0	-6
15727.434000	33.26	53.90	20.64	1000.0	1000.000	200.0	H	235.0	-4
17260.018000	34.71	53.90	19.19	1000.0	1000.000	200.0	H	207.0	-2



2.4.22 (2M Low Channel) 8GHz to 18GHz Radiated Emissions



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\]
- FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

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)
8211.683000	44.55	73.90	29.35	1000.0	1000.000	300.0	H	281.0	-8
10297.260000	44.69	73.90	29.21	1000.0	1000.000	200.0	V	236.0	-7
11825.952000	45.39	73.90	28.51	1000.0	1000.000	102.0	H	256.0	-6
17002.389000	47.56	73.90	26.34	1000.0	1000.000	300.0	V	26.0	-2

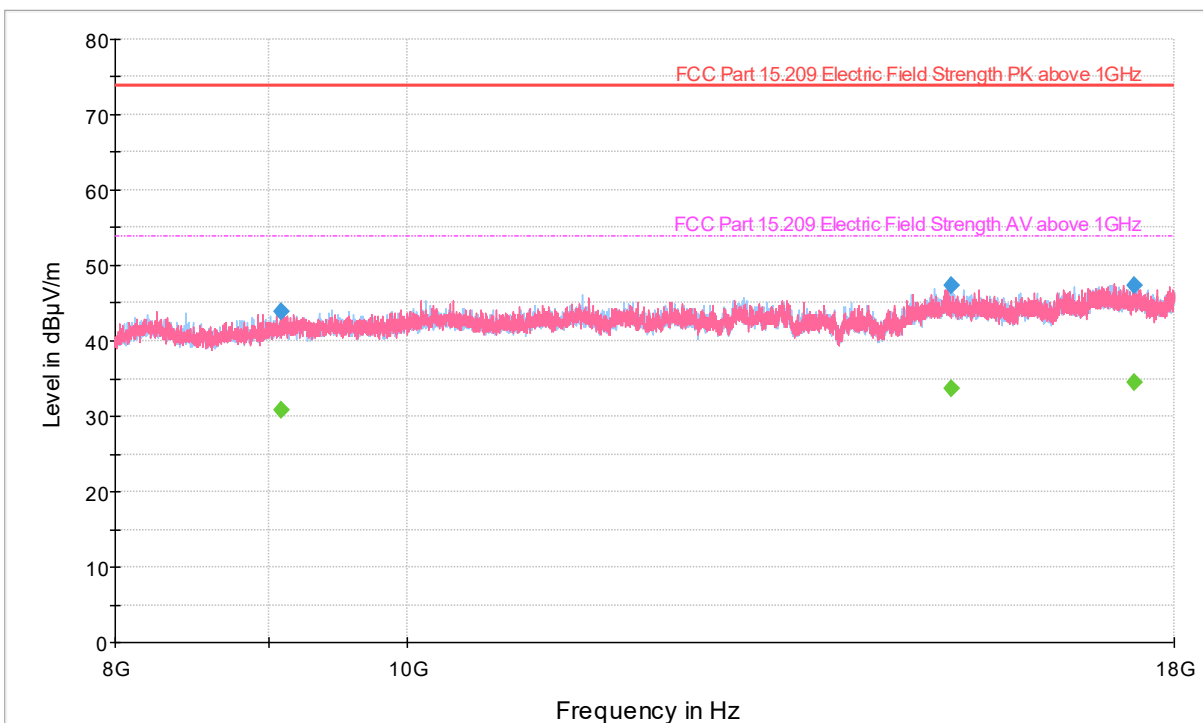


Average Data

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8211.683000	31.41	53.90	22.49	1000.0	1000.000	300.0	H	281.0	-8
10297.260000	31.86	53.90	22.04	1000.0	1000.000	200.0	V	236.0	-7
11825.952000	32.51	53.90	21.39	1000.0	1000.000	102.0	H	256.0	-6
17002.389000	34.72	53.90	19.18	1000.0	1000.000	300.0	V	26.0	-2



2.4.22 (2M Mid Channel) 8GHz to 18GHz Radiated Emissions



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\]
- FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

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)
9081.343000	43.85	73.90	30.05	1000.0	1000.000	350.0	H	61.0	-7
15168.845000	47.36	73.90	26.54	1000.0	1000.000	102.0	V	263.0	-4
17466.734000	47.44	73.90	26.46	1000.0	1000.000	102.0	H	194.0	-2



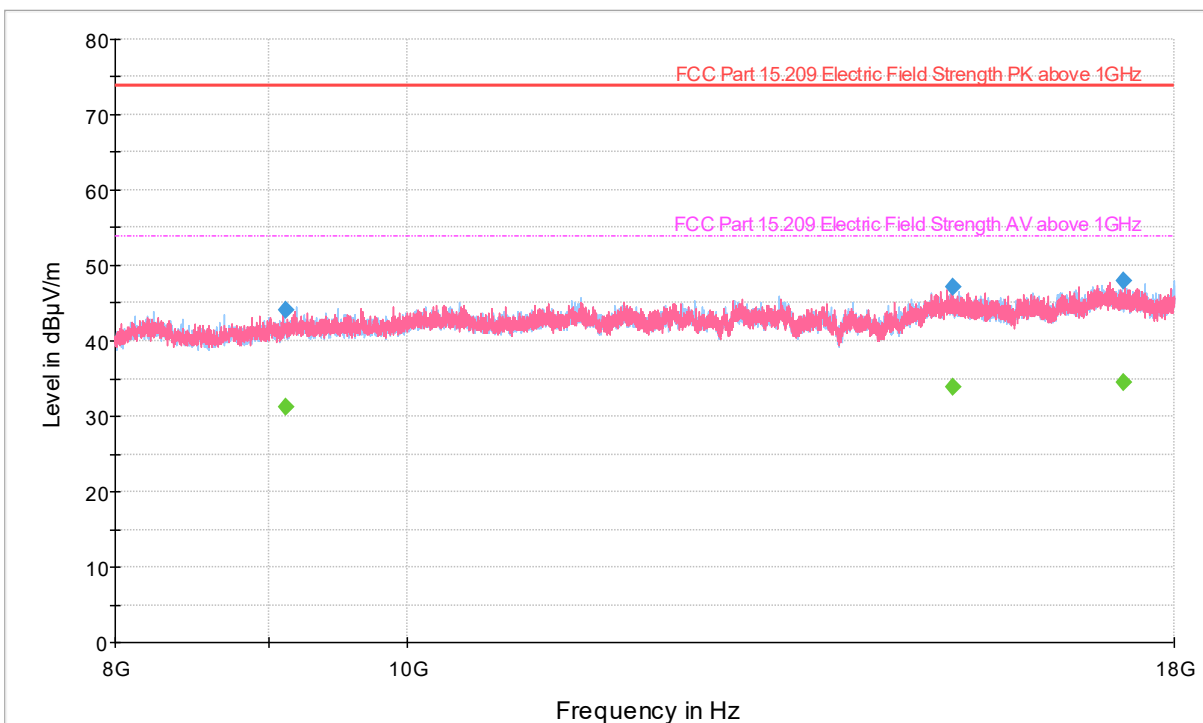
Product Service

Average Data

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9081.343000	30.90	53.90	23.00	1000.0	1000.000	350.0	H	61.0	-7
15168.845000	33.63	53.90	20.27	1000.0	1000.000	102.0	V	263.0	-4
17466.734000	34.40	53.90	19.50	1000.0	1000.000	102.0	H	194.0	-2



2.4.23 (2M High Channel) 8GHz to 18GHz Radiated Emissions



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\]
- FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\]
- Final_Result PK+ [Final_Result.Result:4]
- Final_Result AVG [Final_Result.Result:5]

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)
9115.270000	44.13	73.90	29.77	1000.0	1000.000	300.0	V	215.0	-7
15196.356000	47.19	73.90	26.71	1000.0	1000.000	200.0	V	264.0	-4
17321.123000	47.87	73.90	26.03	1000.0	1000.000	200.0	V	274.0	-2



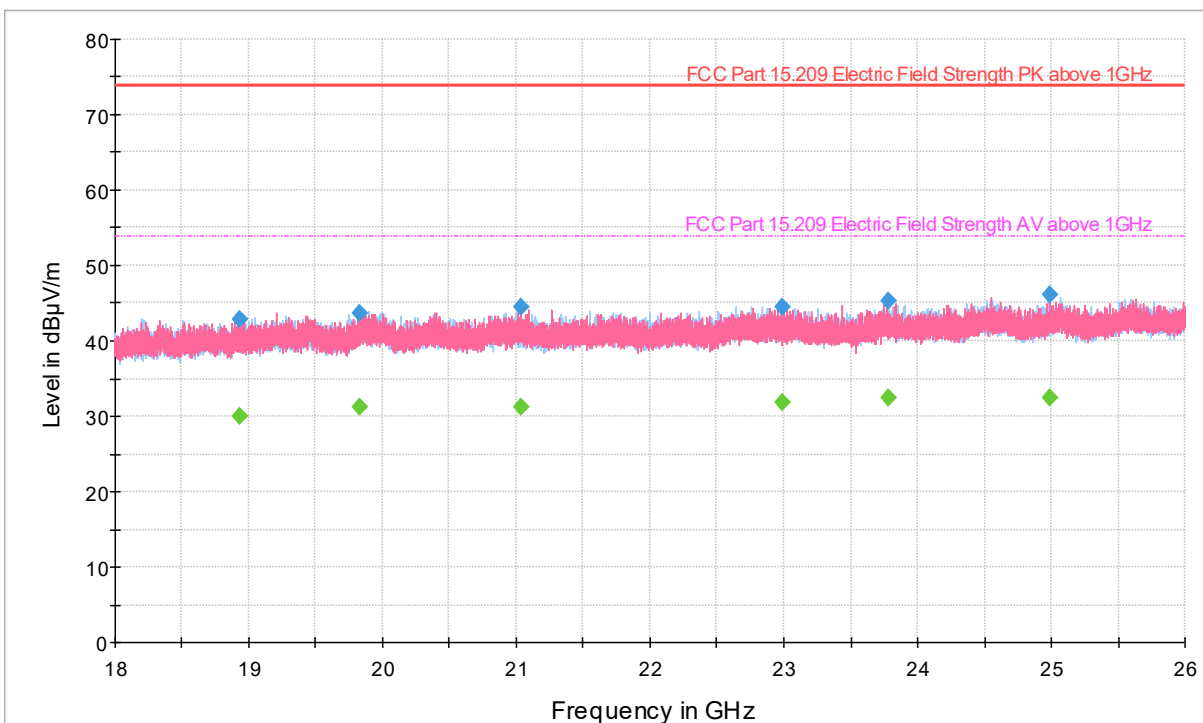
Product Service

Average Data

Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9115.270000	31.23	53.90	22.67	1000.0	1000.000	300.0	V	215.0	-7
15196.356000	33.91	53.90	19.99	1000.0	1000.000	200.0	V	264.0	-4
17321.123000	34.52	53.90	19.38	1000.0	1000.000	200.0	V	274.0	-2



2.4.22 (Worst case channel) 18GHz to 26GHz Radiated Emissions



- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\]
- FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

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)
18931.933333	42.84	73.90	31.06	1000.0	1000.000	150.0	V	82.0	0
19830.200000	43.76	73.90	30.14	1000.0	1000.000	150.0	H	101.0	2
21030.200000	44.54	73.90	29.36	1000.0	1000.000	150.0	V	166.0	2
22986.733333	44.58	73.90	29.32	1000.0	1000.000	150.0	H	266.0	4
23779.533333	45.36	73.90	28.54	1000.0	1000.000	150.0	H	206.0	5
24983.133333	46.03	73.90	27.87	1000.0	1000.000	250.0	H	200.0	6



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)
18931.933333	30.00	53.90	23.90	1000.0	1000.000	150.0	V	82.0	0
19830.200000	31.17	53.90	22.73	1000.0	1000.000	150.0	H	101.0	2
21030.200000	31.20	53.90	22.70	1000.0	1000.000	150.0	V	166.0	2
22986.733333	31.75	53.90	22.15	1000.0	1000.000	150.0	H	266.0	4
23779.533333	32.42	53.90	21.48	1000.0	1000.000	150.0	H	206.0	5
24983.133333	32.49	53.90	21.41	1000.0	1000.000	250.0	H	200.0	6

2.4.9 Test Location and Test Equipment Used

This test was carried out in SR5 (MM)

Instrument	Manufacturer	Type No	TM-ID	Calibration Period (months)	Calibration Expires
ESW44 EMI Test Receiver	Rohde & Schwarz	ESW44 with HF Option	68302	1 year	17-Feb-2027
1-10 GHz Broad-Band Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9120 B	69563	2 years	16-Dec-2027
TUV SSU 010 PLC US	TUV SUD UK	TUV SSU 010 PLC US	N/A	1 year	14-Apr-2027
7.5-18 GHz Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik	HWRD 750	69562	2 years	16-Dec-2027
25-2000 MHz Trilog-Broadband Antenna	Schwarzbeck Mess-Elektronik	VULB 9168	69564	2 years	06-Jan-2028
Horn antenna (18-26.5GHz)	Custom Microwave	HO42S	9001	2 years	16-Sept-2027

Table 10



Product Service

2.5 Antenna Requirement

2.5.1 Specification Reference

FCC 47 CFR Part 15C, ISSED RSS-210 and ISSED RSS-GEN, Clause 15.203

2.5.2 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

2.5.3 Verdict

Complies. The EUT has an integral antenna which complies with FCC 15.203 requirements.



3 Test Equipment Information

3.1 General Test Equipment Used

Instrument	Manufacturer	Type No	TM-ID	Calibration Period (months)	Calibration Expires
Temp, Humidity and Barometric Sensor	Omega	iBTHX-W	30215	12 months	22-Jul-2026
True RMS Multimeter	Fluke	85 III	43003	12 months	07-Oct-2026

3.2 Customer Support Equipment

Instrument	Manufacturer	Description
Support PC MS Windows 10 Pro	Lenovo	Model 20JS0004US S/N PC-0KP3YL 17/03



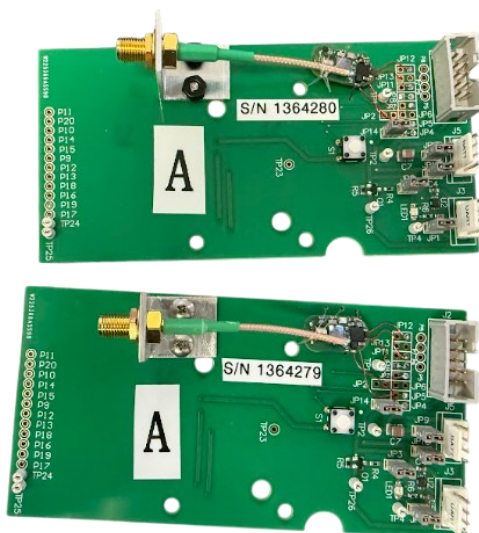
Product Service

4 Incident Reports

No incidents reports were raised.

5 Photographs

5.1 Equipment Under Test (EUT)



Conducted Samples with temporary antenna port connection for testing.



Radiated Samples



6 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Name	Measurement Uncertainty
AC Power Line Conducted Emissions	150 kHz to 30 MHz, LISN, ± 3.7 dB
20 dB Bandwidth	$\pm$ TBC by Lab.
Field Strength of Fundamental	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB
Field Strength of Emissions	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB

Table 11

*Calculation of Measurement Uncertainty per CISPR 16-4-2:2011/AMD2:2018