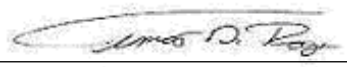
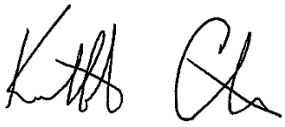
Test Report – FCC Part 15F Ultra-Wideband Operation
Applicant: Ciholas Inc.

Signature:  Sr. EMC Engineer EMC-003838-NE

Name & Title: Tim Royer, EMC Engineer

Date of Signature 7/25/2025

Signature: 

Name & Title: Kristoffer Costa, EMC Technician

Date of Signature 7/25/2025

This test report relates only to the items tested as identified and is not valid for any subsequent changes or modifications made to the equipment under test.

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1. Applicant Information

Applicant: Ciholas Inc.
Address: 3700 Bell Rd
Newburgh, Indiana, 47630, United States

1.1 Test Result Summary

The following test procedure was used ANSI C63.10-2013. Full test results are available in this report.

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. Timco does not offer opinions and interpretations, only a pass/fail statement.

Clauses	Description of the Requirements	Result (Pass, Fail or N/A)
15.503(a)	10dB Bandwidth	Pass
FCC 15.517(b)	UWB Bandwidth	Pass
FCC 15.517(c), 15.209(a), 15.205(a), (b)	Radiated Field Strength of Spurious Emissions	Pass
FCC 15.517(d)	Radiated Field Strength of Spurious Emissions	Pass
2.1046, FCC 15.517(e)	Radiated Field Strength of the Fundamental	Pass
15.521 (c)	Technical requirements applicable to all UWB devices.	Pass

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2. Location of Testing

2.1 Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at IIA's permanent laboratory located at 13146 NW 86th Drive, Suite 400, Alachua, Florida 32615.

FCC test firm # 578780
FCC Designation # US1070
FCC site registration is under A2LA certificate # 0955.01
ISED Canada test site registration # 2056A
EU Notified Body # 1177
For all designations see A2LA scope # 0955.01

3. Test Sample(s) (EUT/DUT)

The test sample was received: 7/21/2025

Dates of Testing: 7/21/2025 – 7/21/2025

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3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification	
FCC ID:	2ALIR-PT301
Brief Description	PT301 Portable Tag
Model(s) #	E00979
Firmware version	N/A
Software version	N/A
Serial Number	N/A

Technical Characteristics	
Frequency Range	6489.60 MHz 7987.20 MHz
Modulation	BPSK
Number of Channels	N/A
Duty Cycle	100%
Antenna Connector	N/A
Voltage Rating (AC or Batt.)	DC

Note: Information such as antenna gain, firmware/software numbers are provided by manufacturer and cannot be validated by the test lab.

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3.2 Configuration of EUT

Band (MHz)	Mode	Number of Ant.	Setting	
6489.60	1	1	Ch 5	PRF 16
6489.60	2	1	Ch 5	PRF 64
7987.20	1	1	Ch 9	PRF 16
7987.20	2	1	Ch 9	PRF 64

Operating conditions during Testing:

No modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT).

Peripherals used during Testing:

No peripherals used.

3.3 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power-line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.

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4. Test methods & Applicable Regulatory Limits

4.1 Test methods/Standards/Guidance

The measurement was performed as per ANSI 63.10. Full test results are available in this report.

Limits and Regulatory Limits:

1) FCC 15.503
2) FCC 15.205 (2019)
3) FCC 15.209 (1997)
4) FCC 15.517 (2002)
5) KDB 393764 D01 UWB FAQ v02

5. Measurement Uncertainty

Parameter	Uncertainty (dB)
Conducted Emissions	± 3.14 dB
Radiated Emissions (9kHz – 30 MHz)	± 3.08 dB
Radiated Emissions (30 – 200 MHz)	± 2.16 dB
Radiated Emissions (200 – 1000 MHz)	± 2.15 dB
Radiated Emissions (1 GHz – 18 GHz)	± 2.14 dB
Radiated Emissions (18 GHz – 40 GHz)	± 2.31 dB
Note: The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2.	

6. Environmental Conditions

Temperature & Humidity

Measurements performed at the test site did not exceed the following:

Parameter	Measurement
Temperature	23 C +/- 5%
Humidity	55% +/- 5%
Barometric Pressure	30.05 in Hg
Note: Specific environmental conditions that are applicable to a specific test are available in the test result section.	

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7. List of Test Equipment and Test Facility

The test equipment used identified by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.

Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer's model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

List of Test Equipment

Test Equipment						
Type	Device	Manufacturer	Model	SN#	Current Cal	Cal Due
Antenna	Double-Ridged Horn/ETS Horn 1	ETS-Lindgren	3117	00035923	5/31/23	10/27/2026
CHAMBER	CHAMBER	Panashield	3M	N/A	12/29/23	12/18/2025
Pre-amp	Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	7/27/22	7/26/2025
Receiver	EMI Test Receiver R&S ESW44	Rohde & Schwarz	ESW44	103049	1/20/25	1/20/2028
Signal Generator	Signal Generator HP 8648C	HP	8648C	35537A01679	8/4/22	8/03/2025

Software			
Software	Author	Version	Validation on
ESU Firmware	Rohde & Schwarz	4.43 SP3; BIOS v5.1-24-3	2018
RSCommander	Rohde & Schwarz	1.6.4	2014
ScopeExplorer	LeCroy	v2.25.0.0	2009
Field Strength	Timco	v4.10.7.0	2016

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8. Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

Units of measurement

Unless noted otherwise in the referenced standard, the measurements of ac power-line conducted emissions and conducted power output will be reported in units of dBµV. Unless noted otherwise in the referenced standard, the measurements of radiated emissions will be reported in units of decibels, referenced to one microvolt per meter (dBµV/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dBµV if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

Example:

Freq (MHz)	Meter Reading	+ ACF	+CL	= FS
33	20 dBµV	+ 10.36 dB/m	+0.40 dB	=30.36 dBµV/m @ 3m

EIRP = Pcond (dBm) + dBi

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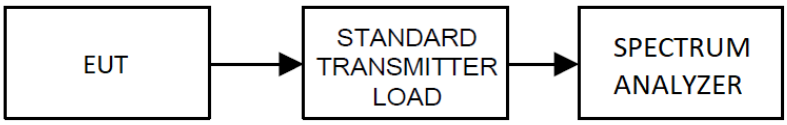
8.1 OCCUPIED BANDWIDTH

Limits from FCC 15.503(a) and test procedure from ANSI C63.10.

Setup



Tuned Frequency (MHz)	Mode	Measured 10 dB BW (MHz)	Fractional Bandwidth (MHz)	Fractional Bandwidth Limit (MHz)	Margin (MHz)
6489.60	Mode 1, PRF 16	507.74	101.548	>0.2	7.74
6489.60	Mode 2, PRF 64	533.70	106.74	>0.2	33.70
7987.20	Mode 1, PRF 16	458.69	91.738	>0.2	41.31
7987.20	Mode 2, PRF 64	429.84	85.968	>0.2	70.16

f_L = 6489.60 MHz
F_H = 7987.20 MHz
F_M = 0.20 MHz

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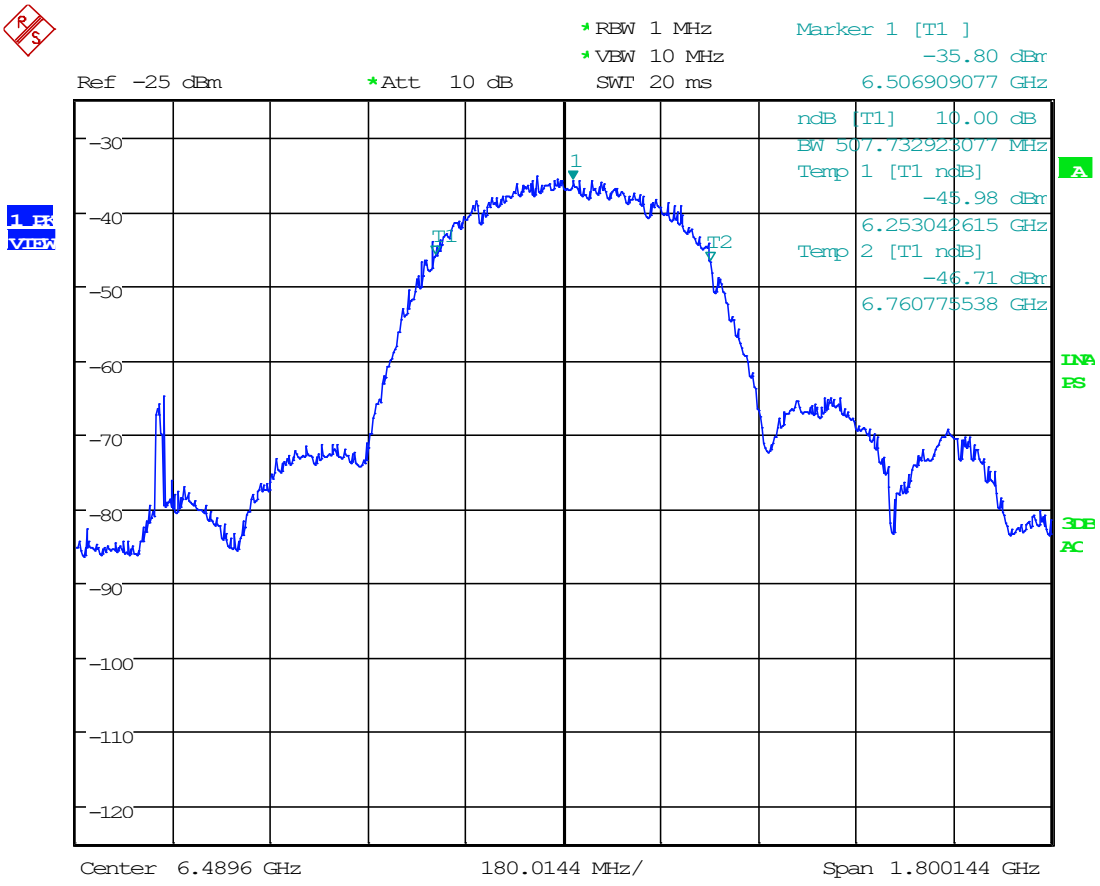
8.1.1 10 dB Bandwidth Plot, Mode 1, PRF 16, 6489.60 MHz



Date: 21.JUL.2025 18:46:07

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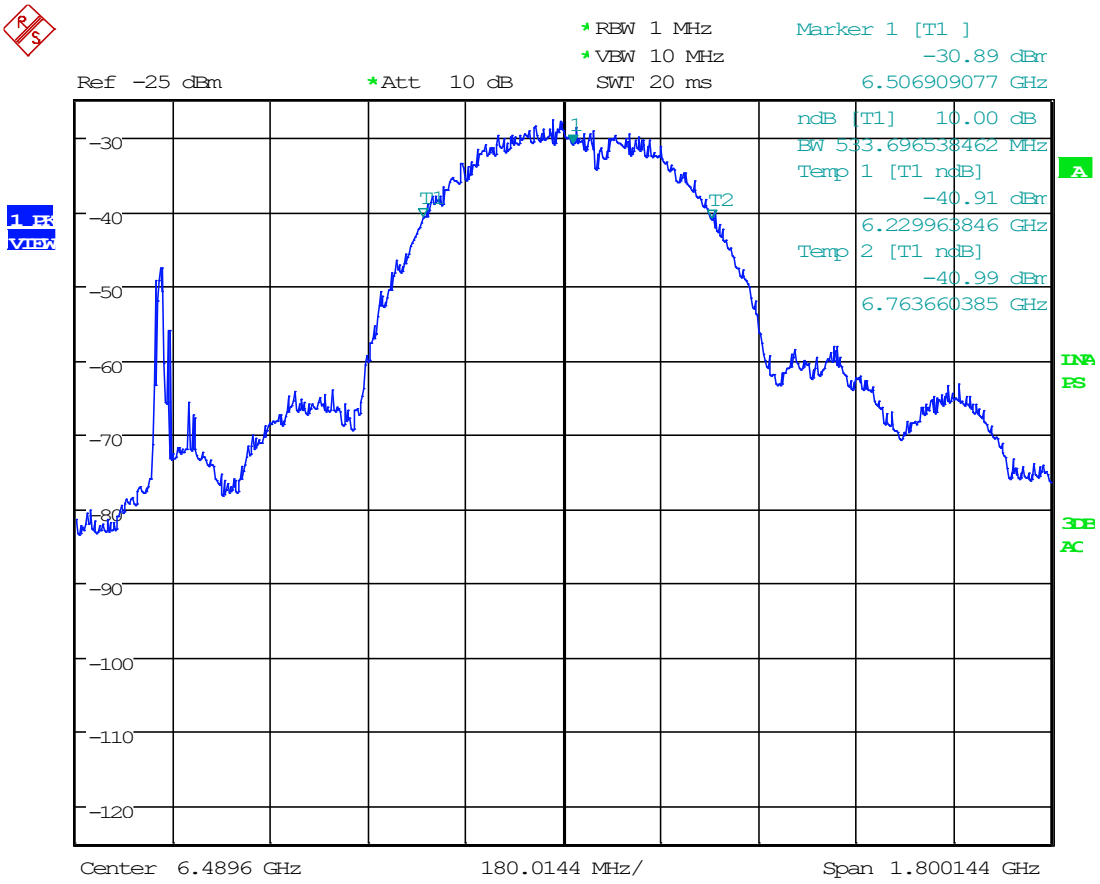
8.1.2 10 dB Bandwidth Plot, Mode 2, PRF 64, 6489.60 MHz



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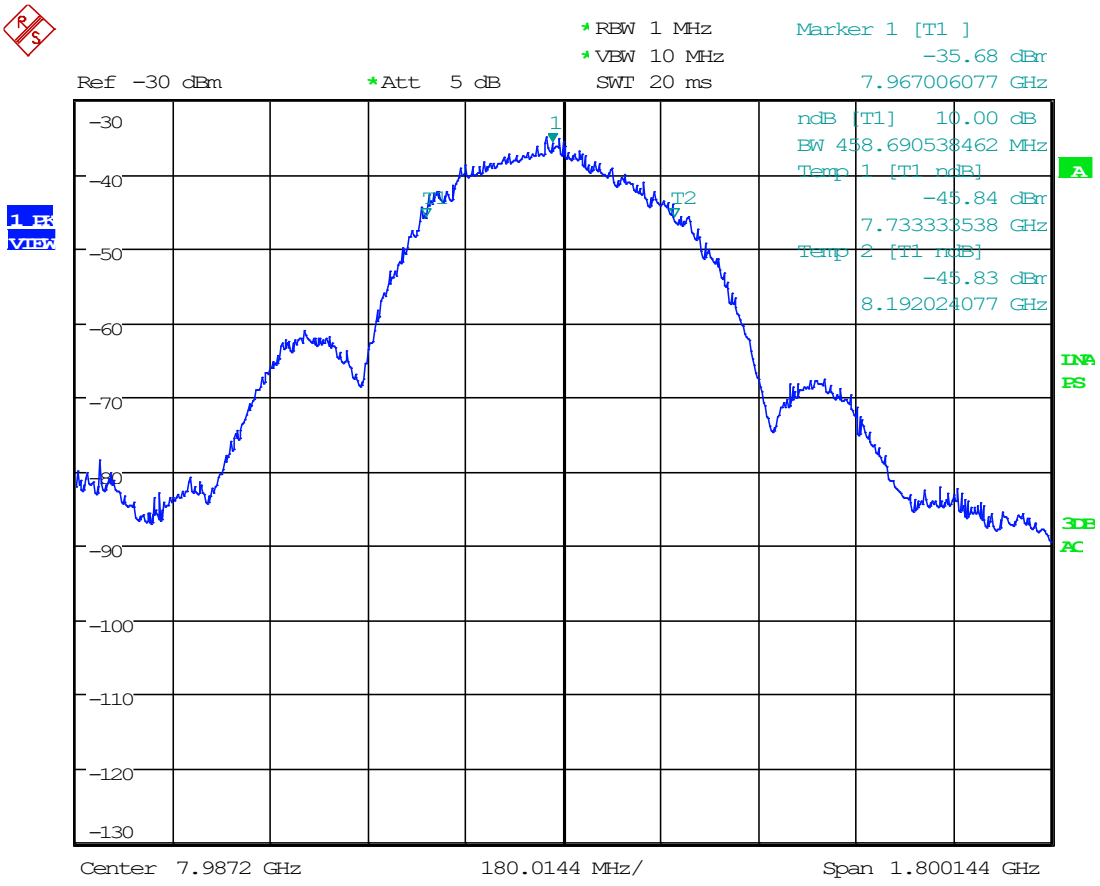
8.1.3 10 dB Bandwidth Plot, Mode 1, PRF 16, 7987.20 MHz



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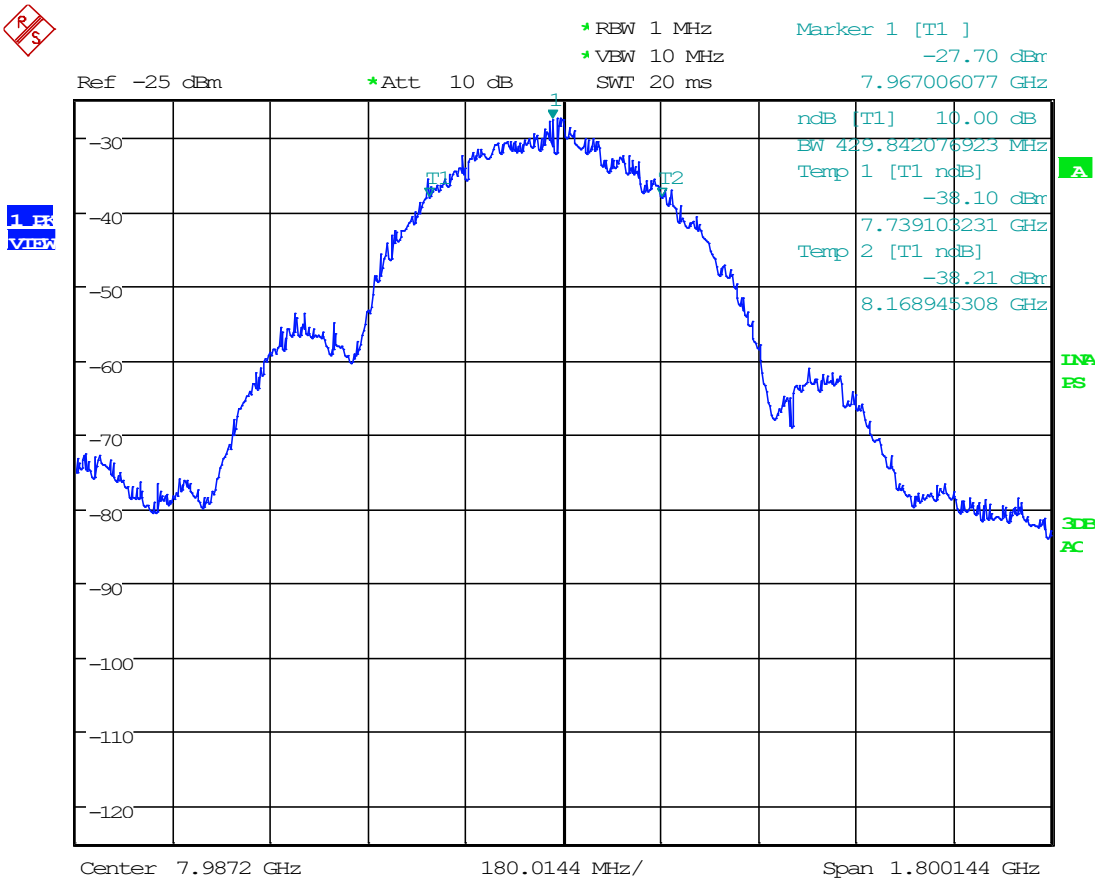
8.1.4 10 dB Bandwidth Plot, Mode 2, PRF 64, 7987.20 MHz



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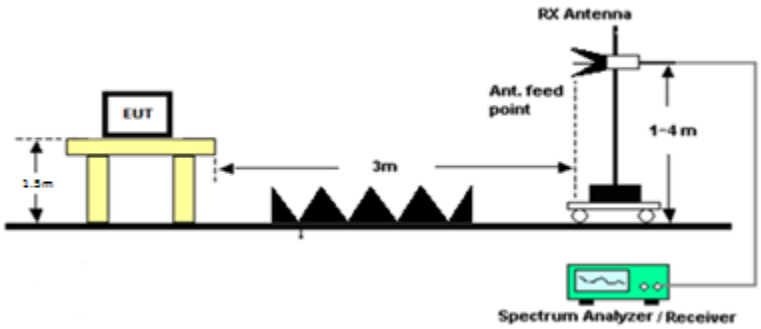
8.2 UWB BANDWIDTH

Limits from FCC 15.517(b) and test procedure from ANSI C63.10.

Setup

Radiated Test Setup, Above 1000 MHz


For a UWB device emission spectrum, the entire fundamental bandwidth (that portion of the spectrum between the outermost −10 dB points) must be fully contained within the authorized frequency band (3100 MHz and 10,600 MHz). As stated Q3 of KDB 393764 D01 UWB FAQ v02

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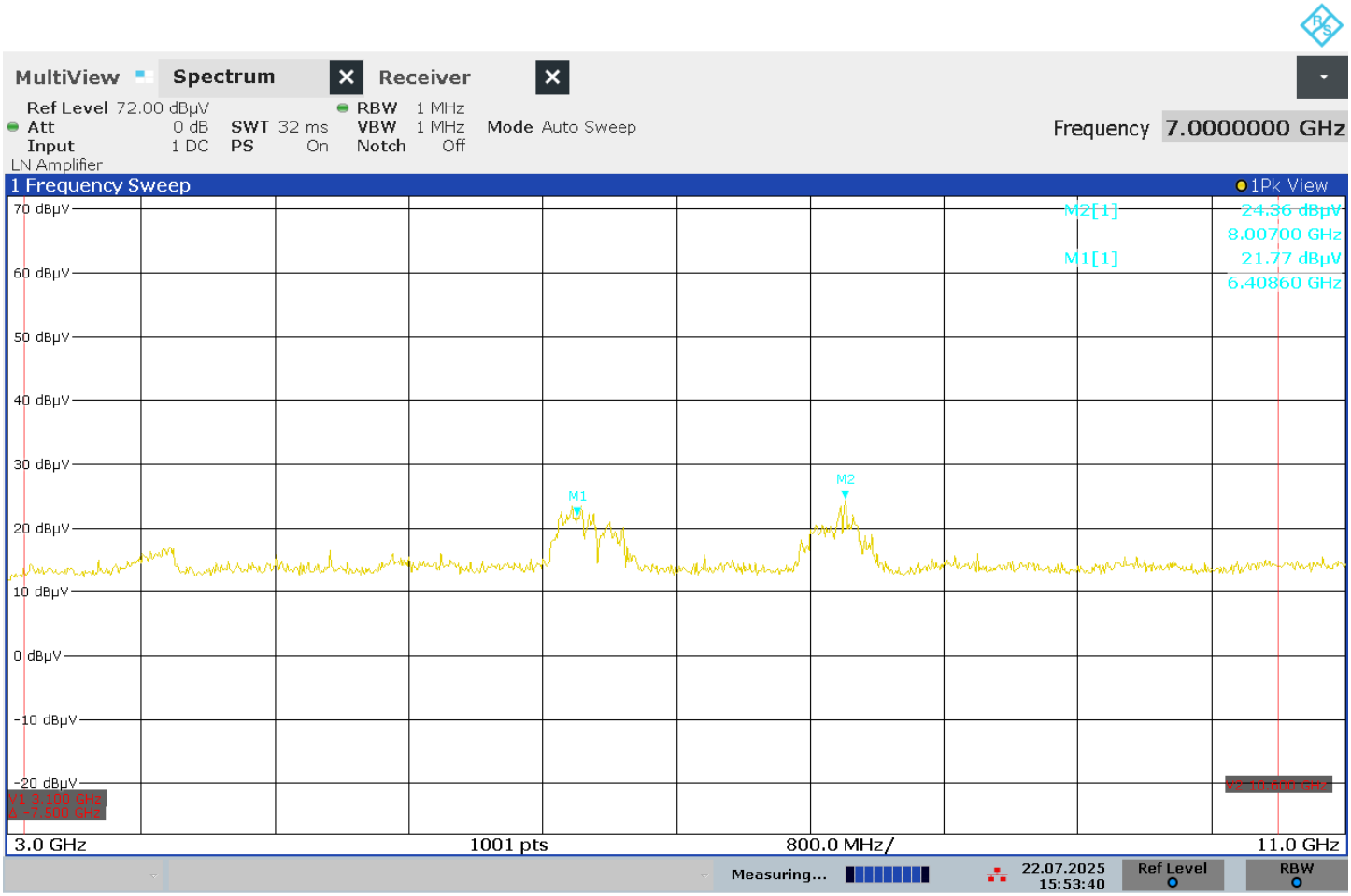
8.2.1 UWB Bandwidth Plot



15:53:40 22.07.2025

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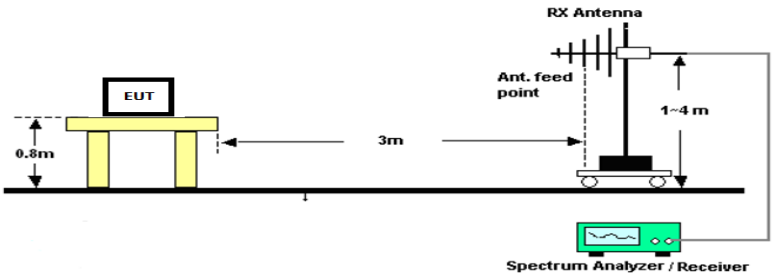
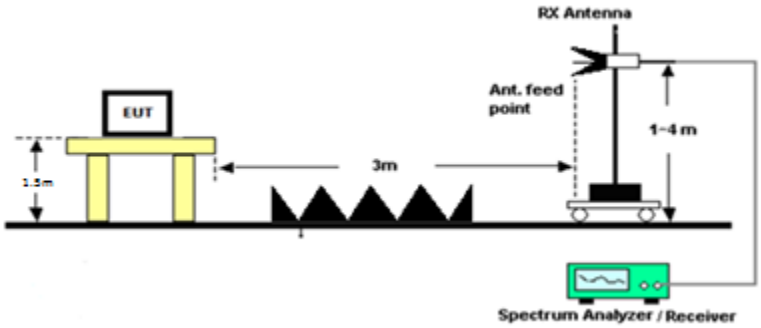
8.3 Radiated Field Strength of Spurious Emissions

Limits from FCC 15.517(c) & 15.209 and test procedure from ANSI C63.10

Radiated Test Setup, 30 – 1000 MHz



Radiated Test Setup, Above 1000 MHz



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Radiated Emissions, Tabular Data

8.3.1 Radiated Emissions, 6489.6 MHz

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBµV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
6489.60	12979.20	PK	15.00	H	-13.85	39.82	3.00	40.97	-56.41	-51.30	5.11
6489.60	12979.20	PK	14.50	V	-13.85	39.82	3.00	40.47	-56.91	-51.30	5.61
6489.60	19468.80	PK	14.30	H	-16.88	15.71	3.00	13.13	-84.25	-51.30	32.95
6489.60	19468.80	PK	14.40	V	-16.88	15.71	3.00	13.23	-84.15	-51.30	32.85
6489.60	25958.40	PK	13.20	H	-19.46	18.21	3.00	11.95	-85.42	-51.30	34.12
6489.60	25958.40	PK	13.50	V	-19.46	18.21	3.00	12.25	-85.12	-51.30	33.82
6489.60	32448.00	PK	15.30	H	-22.46	20.84	3.00	13.68	-83.70	-51.30	32.40
6489.60	32448.00	PK	15.50	V	-22.46	20.84	3.00	13.88	-83.50	-51.30	32.20
6489.60	38937.60	PK	16.30	H	-25.96	23.34	3.00	13.68	-83.69	-51.30	32.39
6489.60	38937.60	PK	16.40	V	-25.96	23.34	3.00	13.78	-83.59	-51.30	32.29

8.3.2 Radiated Emissions, 7987.2 MHz

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBµV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
7987.20	15974.40	PK	13.10	H	-15.36	42.34	3.00	40.08	-57.30	10.00	67.30
7987.20	15974.40	PK	13.60	V	-15.36	42.34	3.00	40.58	-56.80	-51.30	5.50
7987.20	23961.60	PK	14.20	H	-18.75	17.86	3.00	13.31	-84.07	-51.30	32.77
7987.20	23961.60	PK	14.50	V	-18.75	17.86	3.00	13.61	-83.77	-51.30	32.47
7987.20	31948.80	PK	15.30	H	-22.41	21.06	3.00	13.94	-83.44	-51.30	32.14
7987.20	31948.80	PK	15.50	V	-22.41	21.06	3.00	14.14	-83.24	-51.30	31.94
7987.20	39936.00	PK	27.50	H	-26.58	23.19	3.00	24.11	-73.27	-51.30	21.97
7987.20	39936.00	PK	27.00	V	-26.58	23.19	3.00	23.61	-73.77	-51.30	22.47

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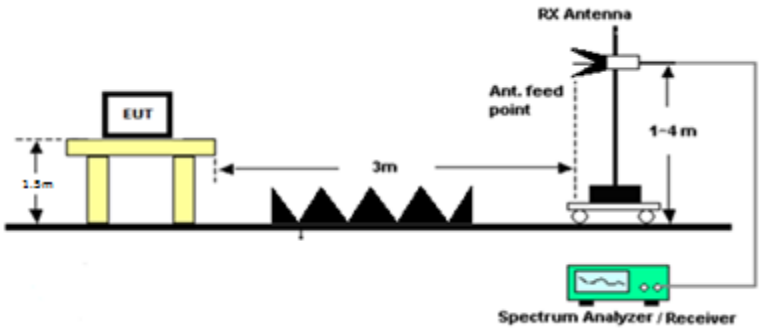
8.4 Radiated Field Strength

Limits from 15.517(d) and test procedure from ANSI C63.10

Radiated Test Setup, Above 1000 MHz


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Radiated Emissions, Tabular Data

8.4.1 Radiated Emissions, 6489.6 MHz

Tuned Frequency (MHz)	Detector	Meter Reading (dBuV)	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBµV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
1164-1240	AV	-30.13	0.84	35.80	3.00	6.51	-90.87	-85.30	5.57
1559-1610	AV	-30.55	0.84	35.80	3.00	6.09	-91.29	-85.30	5.99

8.4.2 Radiated Emissions, 7987.2 MHz

Tuned Frequency (MHz)	Detector	Meter Reading (dBuV)	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBµV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
1164-1240	AV	-28.88	0.84	35.80	3.00	7.76	-89.62	-85.30	4.32
1559-1610	AV	-28.14	0.84	35.80	3.00	8.50	-88.88	-85.30	3.58

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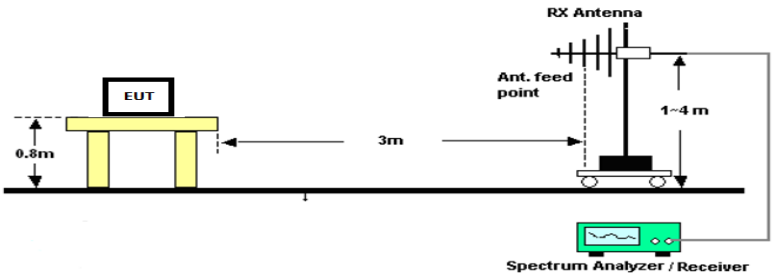
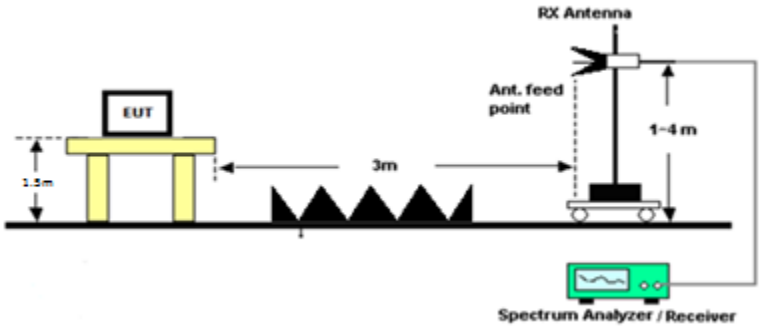
8.5 Radiated Field Strength of Spurious Emissions

Limits from 15.517(e) and test procedure from ANSI C63.10

Radiated Test Setup, 30 – 1000 MHz



Radiated Test Setup, Above 1000 MHz



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Radiated Emissions, Tabular Data

8.5.1 Radiated Emissions, Fundamental Table (Mode 1)

Tuned Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBµV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
6489.60	PK	22.13	H	0.84	35.84	3.00	58.81	-38.57	-14.00	24.57
6489.60	PK	30.47	V	0.84	35.84	3.00	67.15	-30.23	-14.00	16.23
7987.20	PK	27.52	V	0.84	36.13	3.00	64.49	-32.88	-14.00	18.88
7987.20	PK	21.91	H	0.84	36.13	3.00	58.88	-38.49	-14.00	24.49

8.5.2 Radiated Emissions, Fundamental Table (Mode 2)

Tuned Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBµV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
6489.60	PK	28.47	H	0.84	35.84	3.00	65.15	-32.23	-14.00	18.23
6489.60	PK	33.94	V	0.84	35.84	3.00	70.62	-26.76	-14.00	12.76
7987.20	PK	38.71	V	0.84	36.13	3.00	75.68	-21.69	-14.00	7.69
7987.20	PK	26.65	H	0.84	36.13	3.00	63.62	-33.75	-14.00	19.75

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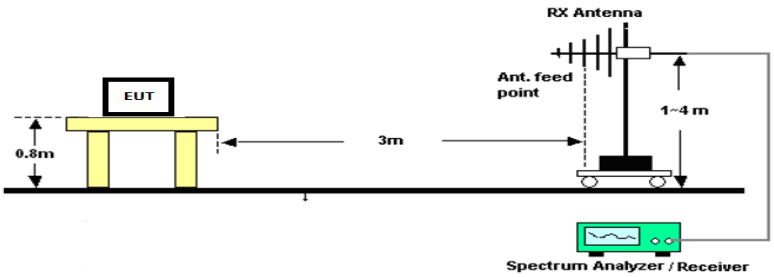
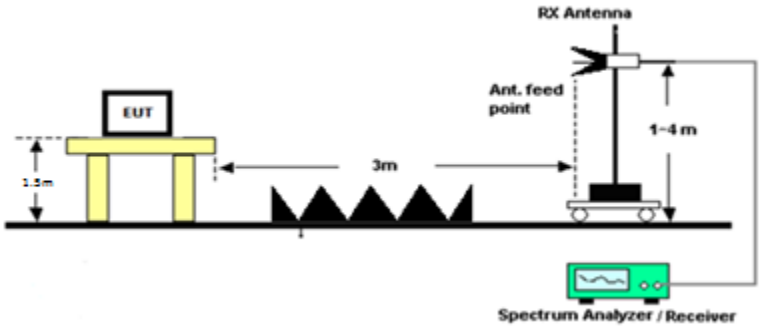
8.6 Radiated Field Strength of Spurious Emissions

Limits from 15.521(c) and test procedure from ANSI C63.10

Radiated Test Setup, 30 – 1000 MHz



Radiated Test Setup, Above 1000 MHz



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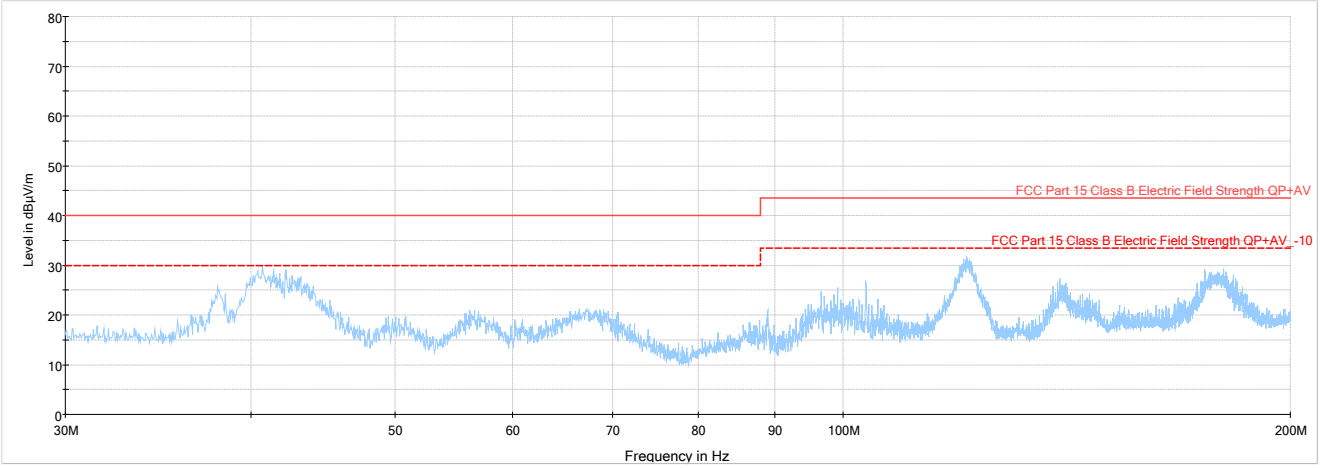
Radiated Emissions, Tabular Data

8.6.1 30 MHz to 200 MHz, Horizontal/ Vertical Polarity Plot



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8.6.2 30 MHz to 200 MHz, Horizontal/ Vertical Polarity Table

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
---	---	---	---	---	---	---	---		---	---	

Test Results: (---) indicate no interferences were detected.

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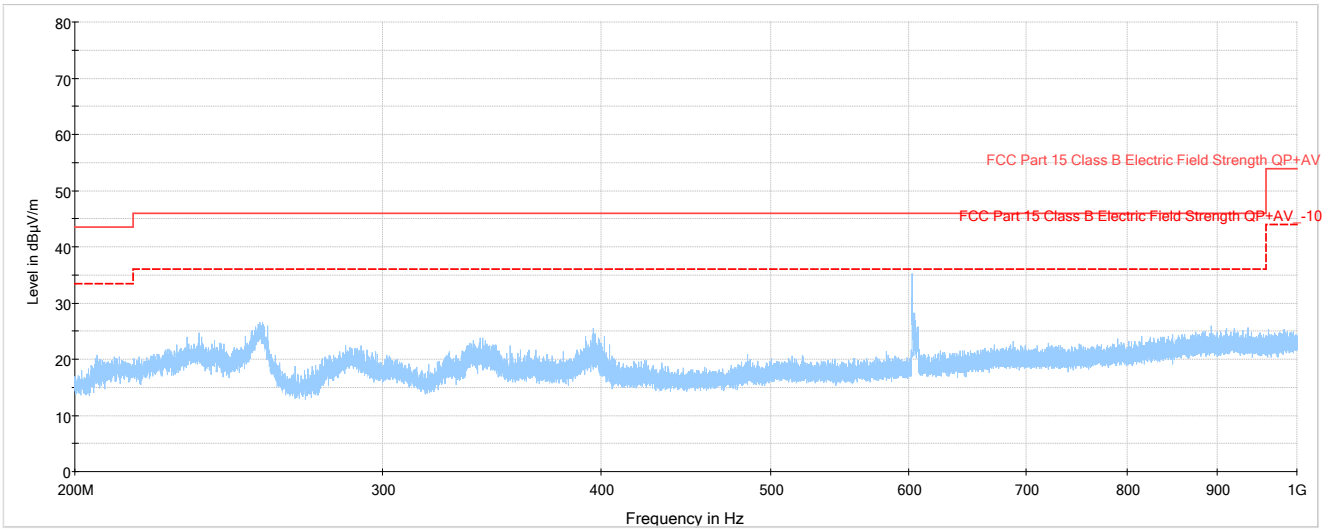
8.6.3 200 MHz to 1000 MHz, Horizontal/ Vertical Polarity Plot



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8.6.4 200 MHz to 1000 MHz, Horizontal/ Vertical Polarity Table

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
---	---	---	---	---	---	---	---		---	---	

Test Results: (---) indicate no interferences were detected.

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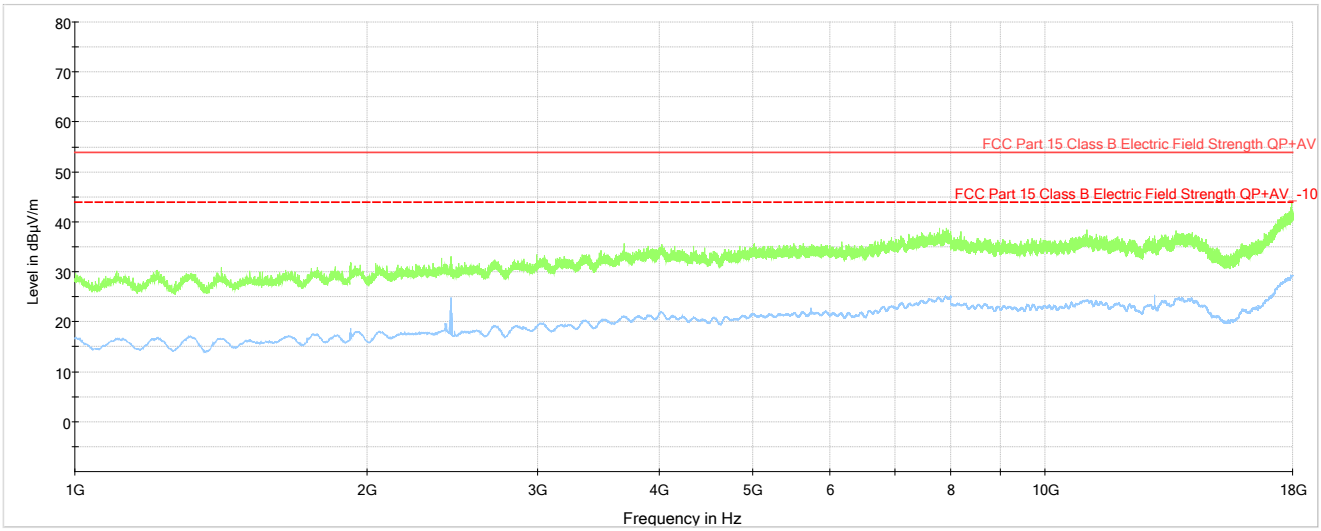
8.6.5 Above 1000 MHz, Horizontal/ Vertical Polarity Plot



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8.6.6 Above 1000 MHz, Horizontal/ Vertical Polarity Table

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
---	---	---	---	---	---	---	---		---	---	

Test Results: (---) indicate no interferences were detected.

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9. ANNEX-B – Test Setup Photographs

Test setup photographs are located in a separate document.

10. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_22412-25_FCC 15F_UWB_	1	Initial release	8/4/2025

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END OF TEST REPORT

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