

TEST REPORT

Report Number : 15496277-E6V2

Applicant : APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S. A

Model : A3258

Brand : APPLE

FCC ID : BCG-E8947A

IC : 579C-E8947A

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E
ISED RSS-247 ISSUE 3
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:
2025-08-18

Prepared by:
UL Verification Services Inc.
47173 Benicia Street
Fremont, CA 94538 U.S.A.
TEL: (510) 319-4000
FAX: (510) 661-0888



REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2025-08-01	Initial Issue	---
V2	2025-08-18	Addressed TCB feedback & updated section 6.6.	Francisco Guarnero

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS.....	5
2. TEST RESULT SUMMARY.....	7
3. TEST METHODOLOGY	7
4. FACILITIES AND ACCREDITATION.....	8
5. DECISION RULES AND MEASUREMENT UNCERTAINTY.....	9
5.1. METROLOGICAL TRACEABILITY	9
5.2. DECISION RULES	9
5.3. MEASUREMENT UNCERTAINTY	9
5.4. SAMPLE CALCULATION.....	10
6. EQUIPMENT UNDER TEST	11
6.1. EUT DESCRIPTION.....	11
6.2. MAXIMUM OUTPUT POWER.....	11
6.3. DESCRIPTION OF AVAILABLE ANTENNAS	11
6.4. SOFTWARE AND FIRMWARE	11
6.5. WORST-CASE CONFIGURATION AND MODE.....	12
6.6. DESCRIPTION OF TEST SETUP.....	13
7. MEASUREMENT METHOD	16
8. TEST AND MEASUREMENT EQUIPMENT	17
9. ANTENNA PORT TEST RESULTS	18
9.1. ON TIME AND DUTY CYCLE	18
9.2. 99% AND 26 dB BANDWIDTH.....	19
9.3. 6 dB BANDWIDTH	21
9.4. OUTPUT POWER AND PSD	23
9.4.1. HIGH POWER.....	24
9.4.2. LOW POWER.....	26
10. RADIATED TEST RESULTS	28
10.1. TRANSMITTER ABOVE 1 GHz.....	30
10.1.1. ANT 6, 1000Kbps HIGH POWER BAND EDGE IN THE 5.8 GHz BAND	30
10.1.2. ANT 6, 1000Kbps HIGH POWER HARMONICS AND SPURIOUS EMISSIONS	34
10.1.3. ANT 6, 1000Kbps LOW POWER BAND EDGE IN THE 5.8 GHz BAND	40
10.1.4. ANT 6, 1000Kbps LOW POWER HARMONICS AND SPURIOUS EMISSIONS	44
10.1.5. ANT 5, 1000Kbps, HIGH POWER BAND EDGE IN THE 5.8 GHz BAND	50
10.1.6. ANT 5, 1000Kbps HIGH POWER HARMONICS AND SPURIOUS EMISSIONS	54

10.1.7.	ANT 5, 1000Kbps, LOW POWER BAND EDGE IN THE 5.8 GHz BAND	60
10.1.8.	ANT 5, 1000Kbps LOW POWER HARMONICS AND SPURIOUS EMISSIONS ..	64
10.2.	<i>WORST CASE BELOW 1 GHz</i>	70
10.3.	<i>WORST CASE 18-26 GHz</i>	72
10.4.	<i>WORST CASE 26-40 GHz</i>	74
11.	AC POWER LINE CONDUCTED EMISSIONS	76
11.1.	<i>AC Power Line WITH LAPTOP</i>	77
11.2.	<i>AC Power Line WITH AC/DC Adapter</i>	79
12.	SETUP PHOTOS.....	81

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A

EUT DESCRIPTION: SMARTPHONE

MODEL: A3258

BRAND: APPLE

SERIAL NUMBER: J6HHCW000670000YAV (Conducted)
J3XKVHG144 (Radiated)

SAMPLE RECEIPT DATE: 2025/02/28

DATE TESTED: APRIL 7 – JULY 19, 2025

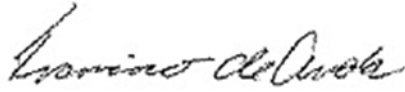
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Complies
ISED RSS-247 Issue 3	Complies
ISED RSS-GEN Issue 5 + A1 + A2	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested can demonstrate compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not considered unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

Approved & Released For
UL Verification Services Inc. By:



Francisco de Anda
Staff Engineer
Consumer Technology Division
UL Verification Services Inc.

Prepared By:



Francisco Guarnero
Senior Test Engineer
Consumer Technology Division
UL Verification Services Inc.

2. TEST RESULT SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.3)
2. Cable loss (see section 6.3)

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	Reporting purposes only	Per ANSI C63.10, Section 12.2.
See Comment	RSS-GEN 6.7	26dB BW/99% OBW	Reporting purposes only	Per ANSI C63.10 Sections 6.9.2 and 6.9.3
15.407 (e)	RSS-247 6.2.4.2	6 dB BW	complies	None.
15.407 (a) (1-4), (h) (1)	RSS-247 6.2	Output Power	complies	None.
15.407 (a) (1-3, 5)	RSS-247 6.2	PSD	complies	None.
15.209, 15.205, 15.407 (b)	RSS-GEN 8.9, 8.10, RSS-247 6.2	Radiated Emissions	complies	None.
15.207	RSS-Gen 8.8	AC Mains Conducted Emissions	complies	None.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- *ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- FCC 47 CFR Part 2
- FCC CFR 47 Part 15
- FCC KDB 414788 D01 Radiated Test Site
- FCC KDB 484596 D01 Referencing Test Data
- FCC KDB 662911 D01 Multiple Transmitter Output
- FCC KDB 789033 D02 General UNII Test Procedures New Rules
- RSS-GEN Issue 5 + A1 +A2
- RSS-247 Issue 3

*Note: The use of ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 does not deviate from the testing procedures of ANSI C63.10-2020

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☒	Building 3: 843 Auburn Court, Fremont, CA 94538 USA			
☐	Building 4: 47658 Kato Rd, Fremont, CA 94538 USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538 USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not considered when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{LAB}
Conducted Antenna Port Emission Measurement	1.94 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	1.3 dB (Pk), 0.45 dB (Ave)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable

Loss (dB) – Preamp Gain (dB)

$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5GNR1, 5GNR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

5.8 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.8GHz Band 1TX, high power			
5728.75 – 5846.25	802.15.4ab	20.99	125.60
5.8GHz Band 1TX Low Power			
5728.75 – 5846.25	802.15.4ab	11.99	15.81

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna(s) gain and type, as provided by the manufacturer' are as follows:

Type: PIFA

Frequency Range (MHz)	ANT 6 (dBi)	ANT 5 (dBi)
5728.75 – 5846.25	-1.8	-2.2

Note: antenna C0 and antenna C1 indicated in power tune-up document pertain to Ant 6 and ANT 5 of this report respectively.

The SMA Cable Loss provided by the manufacturers are as follows:

Frequency Range (MHz)	ANT 6 (dB)	ANT 5 (dB)
5725-5850	2.52	2.55

The cables were used for RF antenna port tests that had been offset to the test equipment during testing.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 23A258.

6.5. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT were investigated in three orthogonal orientations X, Y and Z. It was determined that X (Flatbed) orientation was the worst-case orientation for Ant 6 and Y (Landscape) was the worst case for ANT 5.

There are three indexes on this 802.15.4ab technology, with data rates of 250 Kbps on index 1, 500 Kbps on index 2, and 1000 Kbps on index 3. All data rates were investigated, and the worst case was determined based on the highest power on PSD and Index 3, with 1000 Kbps being the worst case.

For radiated harmonics spurious below 1GHz, 1-18GHz L/M/H channels, 18-40GHz, and power line conducted emissions were performed with the EUT set at the worst-case scenario.

Below 1GHz tests were performed with EUT connected to AC power adapter as the worst case; and for above 1GHz, the worst-case configuration reported was tested with EUT only. For AC line conducted emission, test was investigated with AC power adapter and with laptop. There were no emissions found below 30MHz within 20dB of the limit.

Simultaneous transmission with the Bluetooth was investigated, and no noticeable emission was found.

For radiated bandedge and emissions spurious, 1000Kbps is set as the worst-case data rates for final test

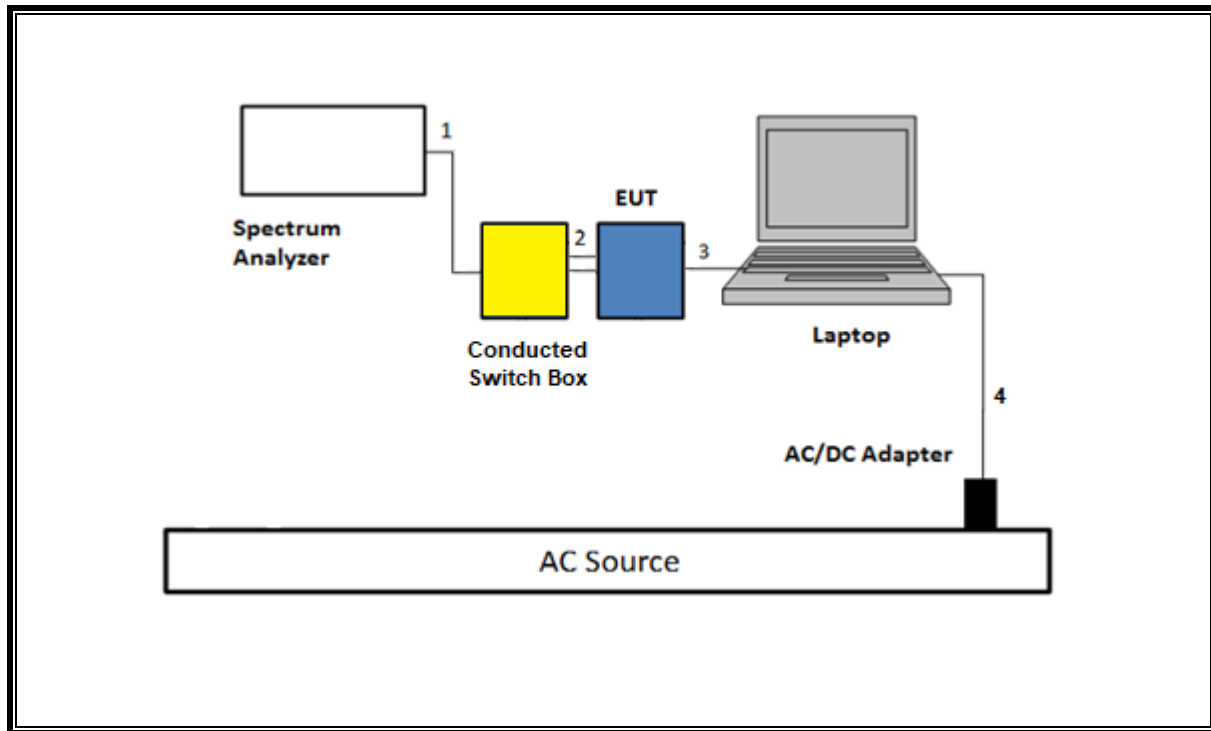
6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Apple	Macbook Pro	C02VD7SAHV22		BCGA1708
Laptop AC/DC adapter		Liteon Technology	A1424	NSW25679		DoC
EUT AC/DC adapter			Apple	A1720	C3D8417A7R93KVPA8	
Conducted Switch Box		UL	n/a	208281		N/A
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	SMA	1	SMA	Shielded	0.2	To spectrum Analyzer
2	Antenna	1	SMA	Shielded	0.2	EUT to Switchbox
3	USB	1	USB-C	Shield	1.0	N/A
4	DC	1	DC	Shield	2.0	N/A
I/O CABLES (RF RADIATED AND AC LINE CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	DC	Shielded	2	N/A
2	USB	1	USB-C	Shielded	1	N/A

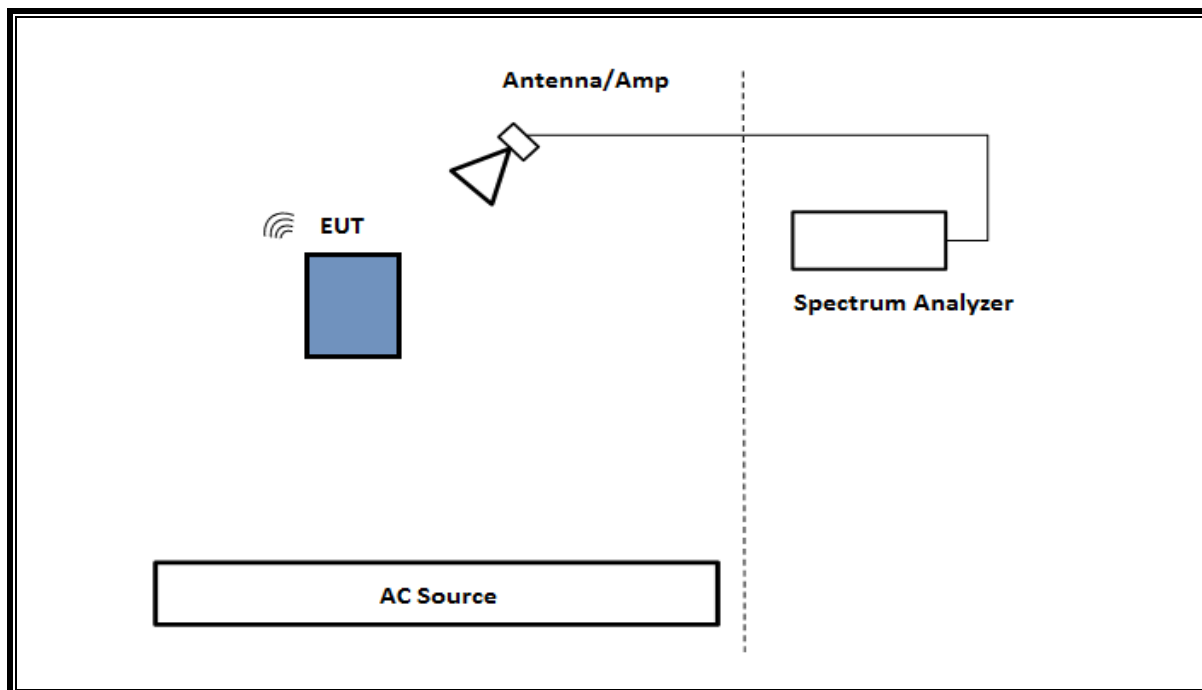
TEST SETUP

The EUT setup is shown as below. Test software exercised the radio card.

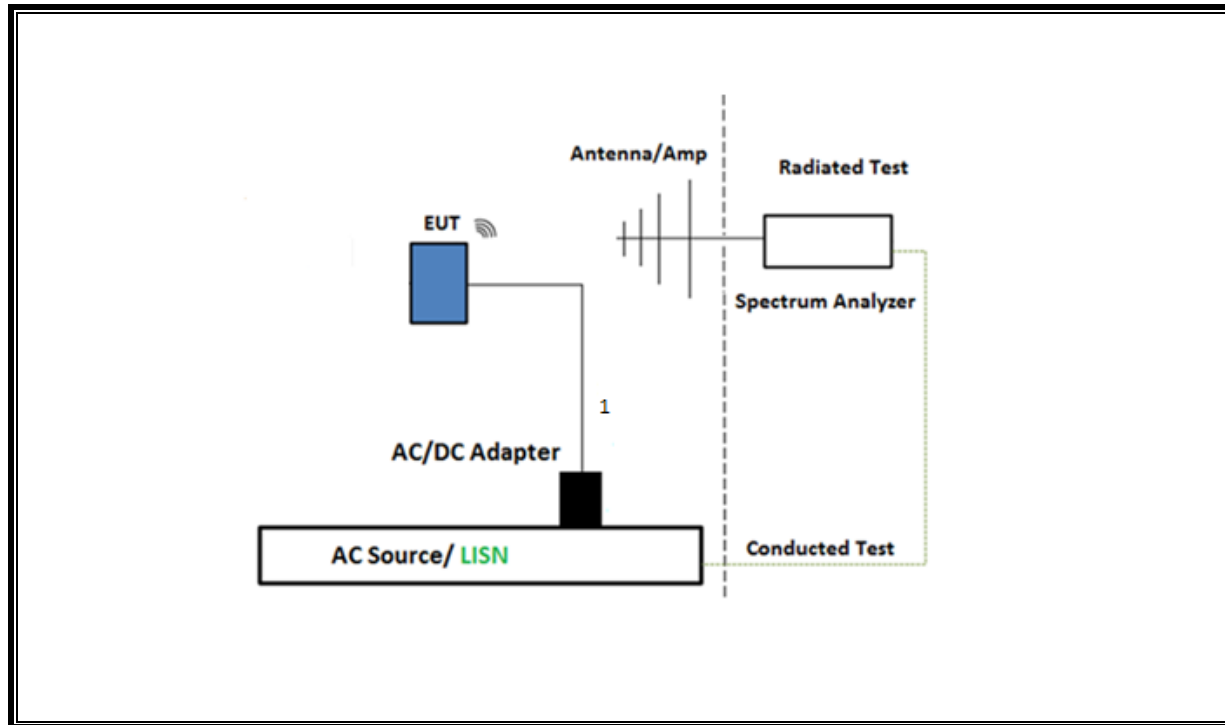
SETUP DIAGRAM FOR CONDUCTED TESTS



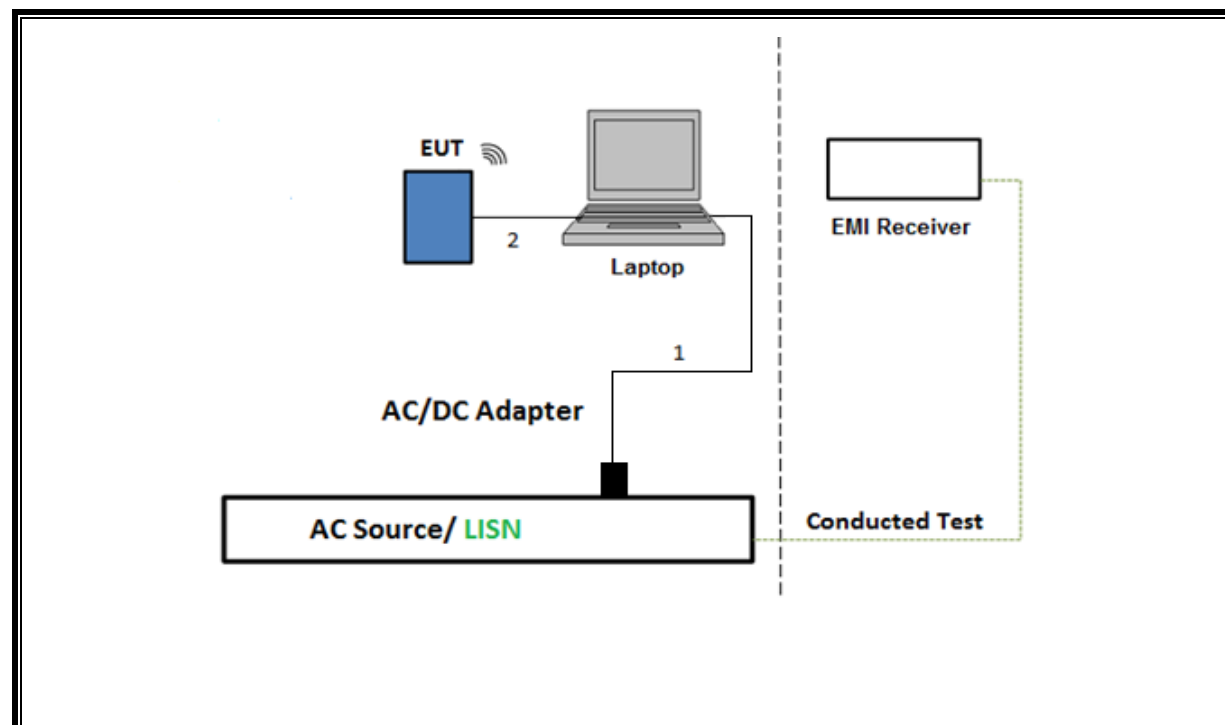
SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz



SETUP DIAGRAM FOR Below 1GHz and AC LINE CONDUCTED TEST



TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION



7. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 789033 D02 v02r01, Section B.

6 dB Emission BW: KDB 789033 D02 v02r01, Section C.2

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.1

99% Occupied BW: KDB 789033 D02 v02r01, Section D.

Conducted Output Power: KDB 789033 D02 v02r01.

Power Spectral Density: KDB 789033 D02 v02r01, Section F

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, and G.5.

AC Power Line Conducted Emissions: ANSI C63.10-2020, Section 6.2.

Radiated Spurious Emissions Below 30MHz: ANSI C63.10-2020 Section 6.4

8. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	ID Num	Cal Due
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	84797	2026/5/31
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RAT 2	225079	2026/5/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235670	2026/2/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	226674	2027/3/31
RF Filter Box, 1-18GHz, 6 Ports	UL-FR1	RATS 1.0	250156	2026/1/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	225683	2026/2/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	226673	2026/2/28
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12 Port	231874	2026/6/29
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235670	2026/2/28
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	230311	2026/5/31
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	80813	2025/9/29
Antenna, Passive Loop, 30Hz - 1MHz	Electro-Metrics	EM-6871	170014	2025/8/31
Antenna, Passive Loop, 100kHz to 30MHz	Electro-Metrics	EM-6872	170016	2025/8/31
Antenna, Horn 18-26.5GHz	A.R.A.	MWH-1826/B	172353	2026/7/31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	Ampical	AMP18G26.5-60	220194	2026/4/29
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	226078	2026/2/28
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	172369	2025/11/30
Link File, RF Amplifier Assembly, 26-40GHz, 60dB Gain	Ampical	AMP26G40-60	220537	2025/7/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201498	2026/2/28
Spectrum Analyzer, PXA, 3Hz to 44GHz	N9030A	Keysight Technologies Inc	80397	2026/01/31
Conducted Switch Box	UL-FR1	CSB	245782	2025/07/31
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90715	2026/01/31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	81319	2026/01/31

AC Line Conducted				
Description	Manufacturer	Model	ID Num	Cal Due
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	171646	2026/02/28
LISN for Conducted Emissions CISPR-16	FISCHER CUSTOM COMMUNICATIONS	FCC-LISN-50/250-25-2-01-480V	175765	2026/01/31
Transient Limiter	TE	TBFL1	207996	2025/09/30
UL AUTOMATION SOFTWARE				
Radiated Software	UL	UL EMC	Ver 9.5, May 1, 2023	
Conducted Software	UL	UL EMC	2020.8.16	
AC Line Conducted Software	UL	UL EMC	Ver 9.5, Mar 3, 2023	

*Testing is completed before equipment expiration date.

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

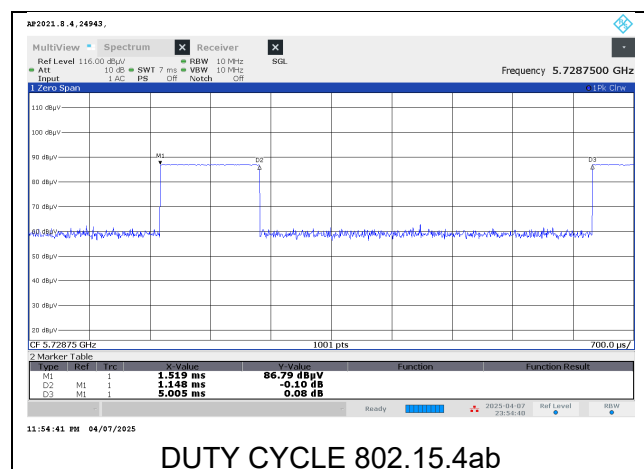
PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
802.15.4ab						
5726.75MHz 1000Kbps	1.148	5.005	0.229	22.94%	6.39	0.871

DUTY CYCLE PLOTS



9.2. 99% AND 26 dB BANDWIDTH

LIMITS

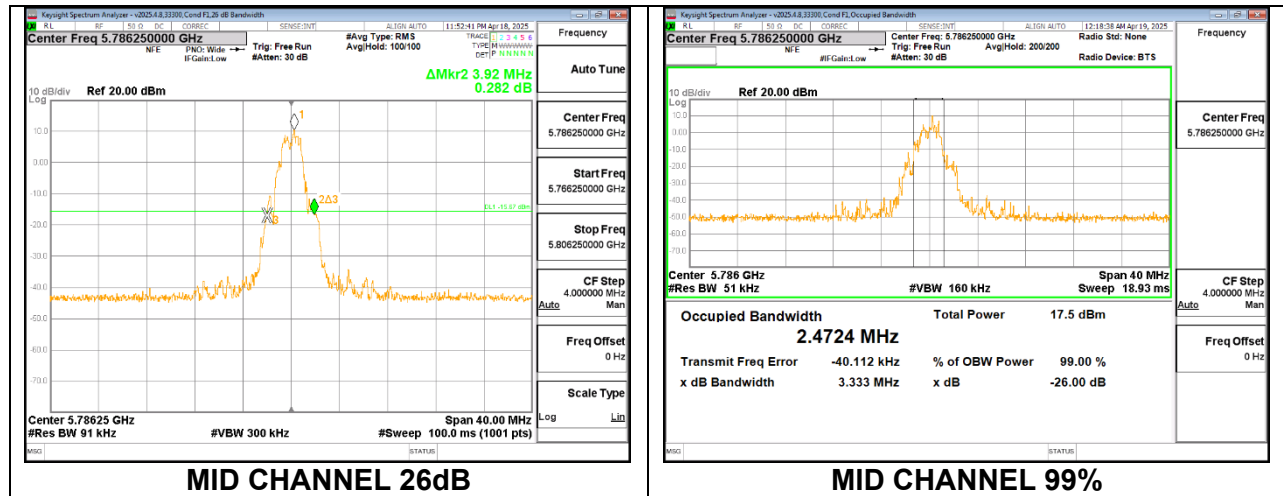
None; for reporting purposes only.

RESULTS

Only High-Power modes results are reported; it covers all Low Power modes. Only Mid channel plot is reported to show setting parameter complies with testing method/procedure.

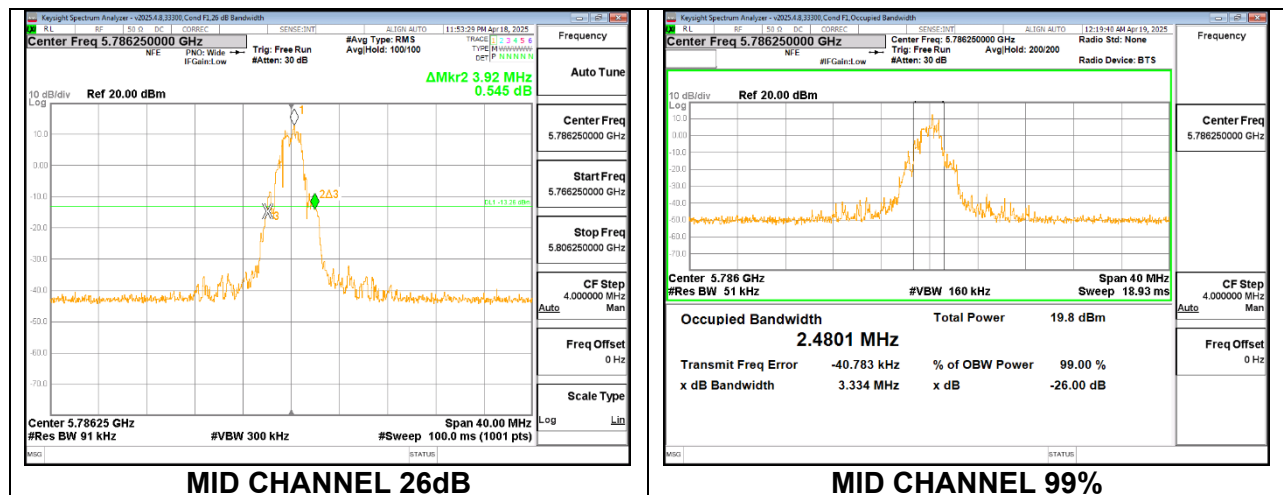
1TX Antenna 6 MODE

Channel	Frequency	26dB Bandwidth	99% Bandwidth
	(MHz)	(MHz)	(MHz)
Low	5728.75	3.88	2.4822
Mid	5786.25	3.92	2.4724
High	5846.25	3.88	2.5186



1TX Antenna 5 MODE

Channel	Frequency	26dB Bandwidth	99% Bandwidth
	(MHz)	(MHz)	(MHz)
Low	5728.75	3.88	2.4957
Mid	5786.25	3.92	2.4801
High	5846.25	3.96	2.5037



9.3. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

RSS-247 6.2.4.1

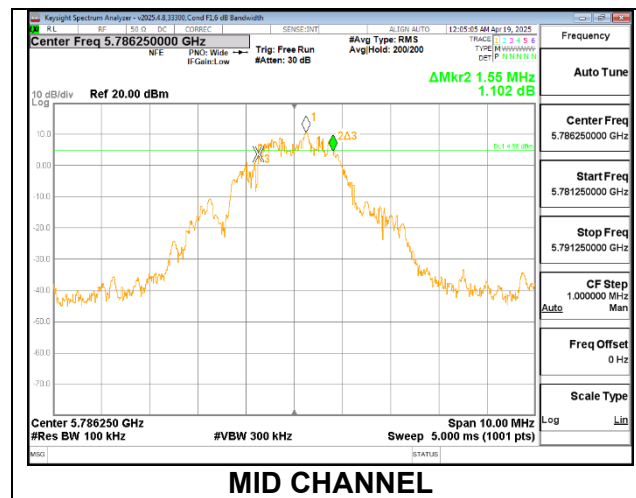
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

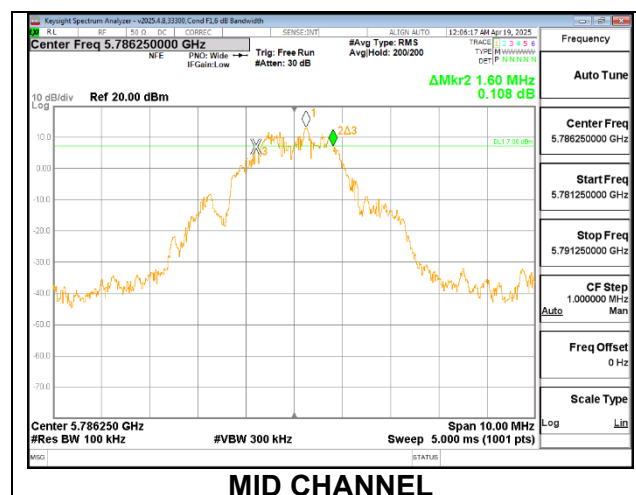
Only High-Power modes result is reported, it covers all Low Power modes

Only Mid channel plot is reported to show setting parameter complies with testing method/procedure.

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5728.75	1.54	0.5
Mid	5786.25	1.55	0.5
High	5846.25	1.60	0.5



Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5728.75	1.61	0.5
Mid	5786.25	1.60	0.5
High	5846.25	1.61	0.5



9.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information.

RSS-247

Band 5.725-5.85 GHz

The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple colocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3 a. Method PM.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F.

Only Mid channel plot is reported to show setting parameter complies with testing method/procedure.

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

9.4.1. HIGH POWER

1TX Antenna 6 MODE (FCC+IC)

Test Engineer:	106033/32181
Test Date:	25/07/11

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	-1.8	30.00	30.00
Mid	5786.25	-1.8	30.00	30.00
High	5846.25	-1.8	30.00	30.00

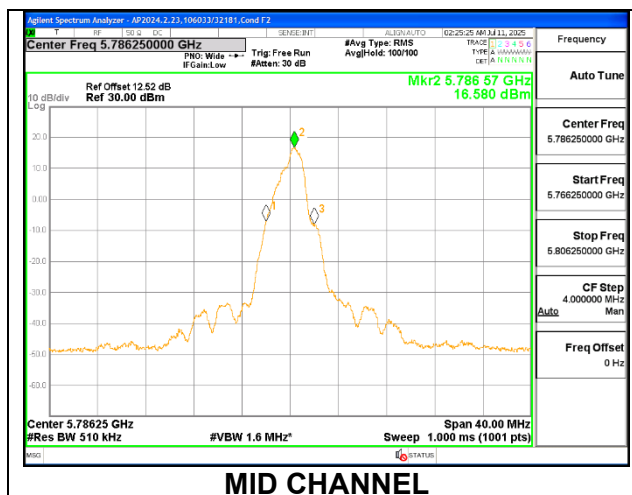
Duty Cycle CF (dB)	6.39	Included in Calculations of Corr'd PSD
--------------------	------	--

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5728.75	18.96	18.96	30.00	-11.04
Mid	5786.25	18.99	18.99	30.00	-11.01
High	5846.25	18.93	18.93	30.00	-11.07

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5728.75	16.492	22.882	30.00	-7.12
Mid	5786.25	16.580	22.970	30.00	-7.03
High	5846.25	16.359	22.749	30.00	-7.25



1TX Antenna 5 MODE (FCC+IC)

Test Engineer:	106033/32181
Test Date:	2025/07/11

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	-2.2	30.00	30.00
Mid	5786.25	-2.2	30.00	30.00
High	5846.25	-2.2	30.00	30.00

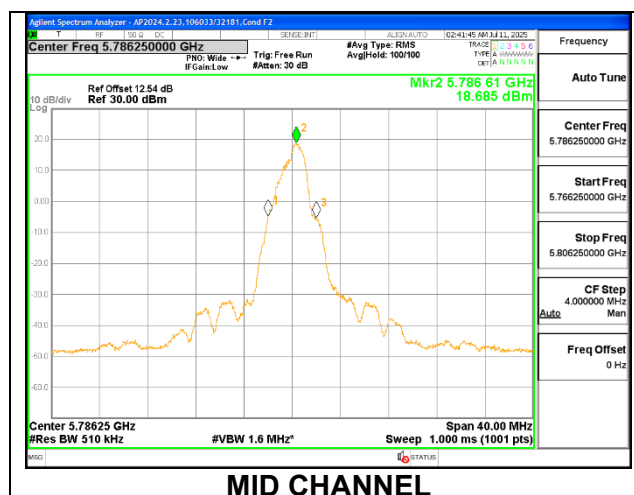
Duty Cycle CF (dB)	6.39	Included in Calculations of Corr'd PSD
--------------------	------	--

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5728.75	20.97	20.97	30.00	-9.03
Mid	5786.25	20.96	20.96	30.00	-9.04
High	5846.25	20.99	20.99	30.00	-9.01

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5728.75	18.522	24.912	30.00	-5.09
Mid	5786.25	18.685	25.075	30.00	-4.93
High	5846.25	18.894	25.284	30.00	-4.72



9.4.2. LOW POWER

1TX Antenna 6 MODE (FCC+IC)

Test Engineer:	106033/32181
Test Date:	2025/07/11

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	-1.8	30.00	30.00
Mid	5786.25	-1.8	30.00	30.00
High	5846.25	-1.8	30.00	30.00

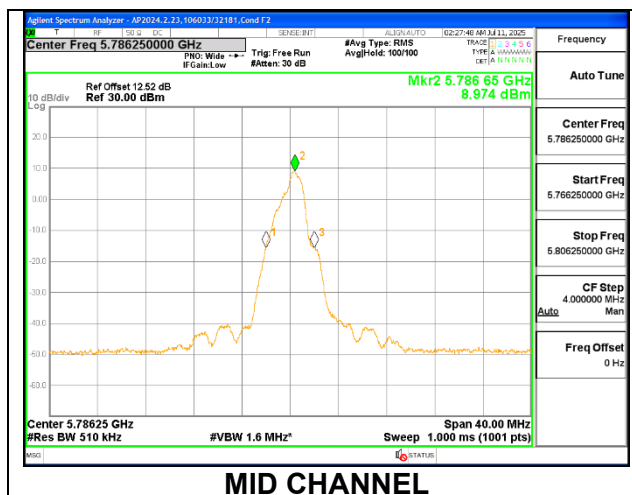
Duty Cycle CF (dB)	6.39	Included in Calculations of Corr'd PSD
--------------------	------	--

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5728.75	11.99	11.99	30.00	-18.01
Mid	5786.25	11.98	11.98	30.00	-18.02
High	5846.25	11.97	11.97	30.00	-18.03

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5728.75	9.105	15.495	30.00	-14.51
Mid	5786.25	8.974	15.364	30.00	-14.64
High	5846.25	9.126	15.516	30.00	-14.48



1TX Antenna 5 MODE (FCC+IC)

Test Engineer:	106033/32181
Test Date:	2025/07/11

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	-2.2	30.00	30.00
Mid	5786.25	-2.2	30.00	30.00
High	5846.25	-2.2	30.00	30.00

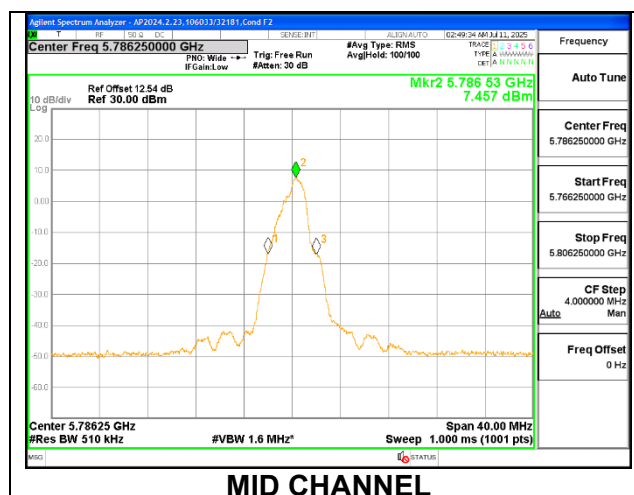
Duty Cycle CF (dB)	6.39	Included in Calculations of Corr'd PSD
--------------------	------	--

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5728.75	9.96	9.96	30.00	-20.04
Mid	5786.25	9.95	9.95	30.00	-20.05
High	5846.25	9.99	9.99	30.00	-20.01

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5728.75	7.415	13.805	30.00	-16.20
Mid	5786.25	7.457	13.847	30.00	-16.15
High	5846.25	7.644	14.034	30.00	-15.97



10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 -Restricted bands
FCC §15.407(b)(1-3) -Un-Restricted bands

RSS 247 Issue 2 Sections
6.2.3.2 (for 5470-5600 MHz and 5650-5725 MHz bands)
6.2.4.2 (for 5725-5850 MHz band)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only. Blue color trace on plots: Parallel orientation. Green color trace on plots: Perpendicular orientation.

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

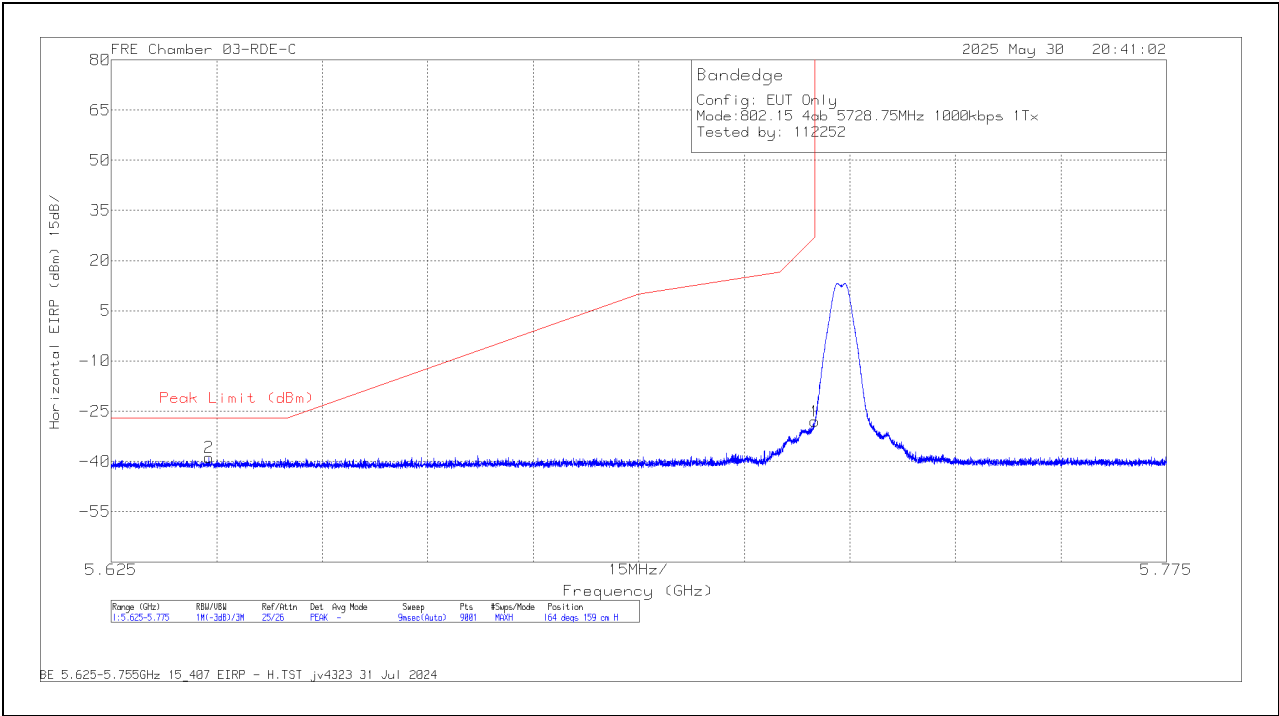
RESULTS

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. ANT 6, 1000Kbps HIGH POWER BAND EDGE IN THE 5.8 GHz BAND

BANDEDGE (LOW CHANNEL)

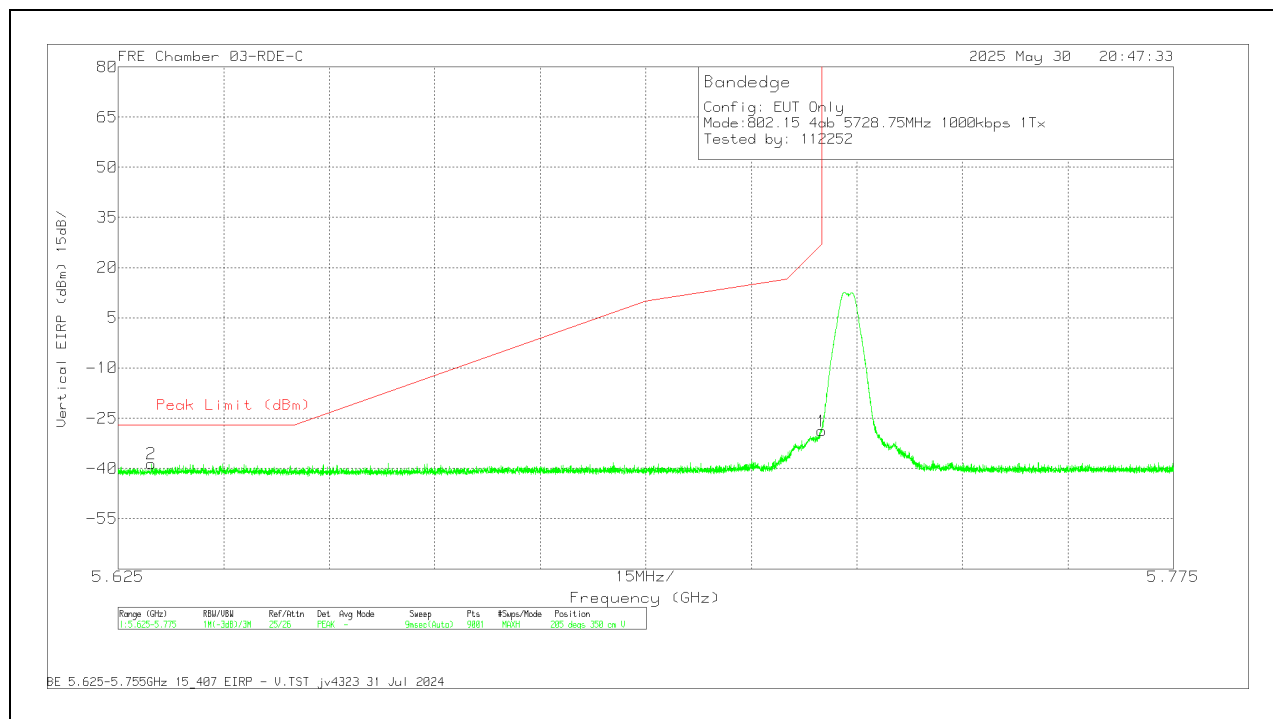
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-38.06	Pk	34.9	11.8	0	-36.7	-28.06	27	-55.06	164	159	H
2	5.638917	-48.57	Pk	34.8	11.8	0	-36.81	-38.78	-27	-11.78	164	159	H

Pk - Peak detector

VERTICAL RESULT

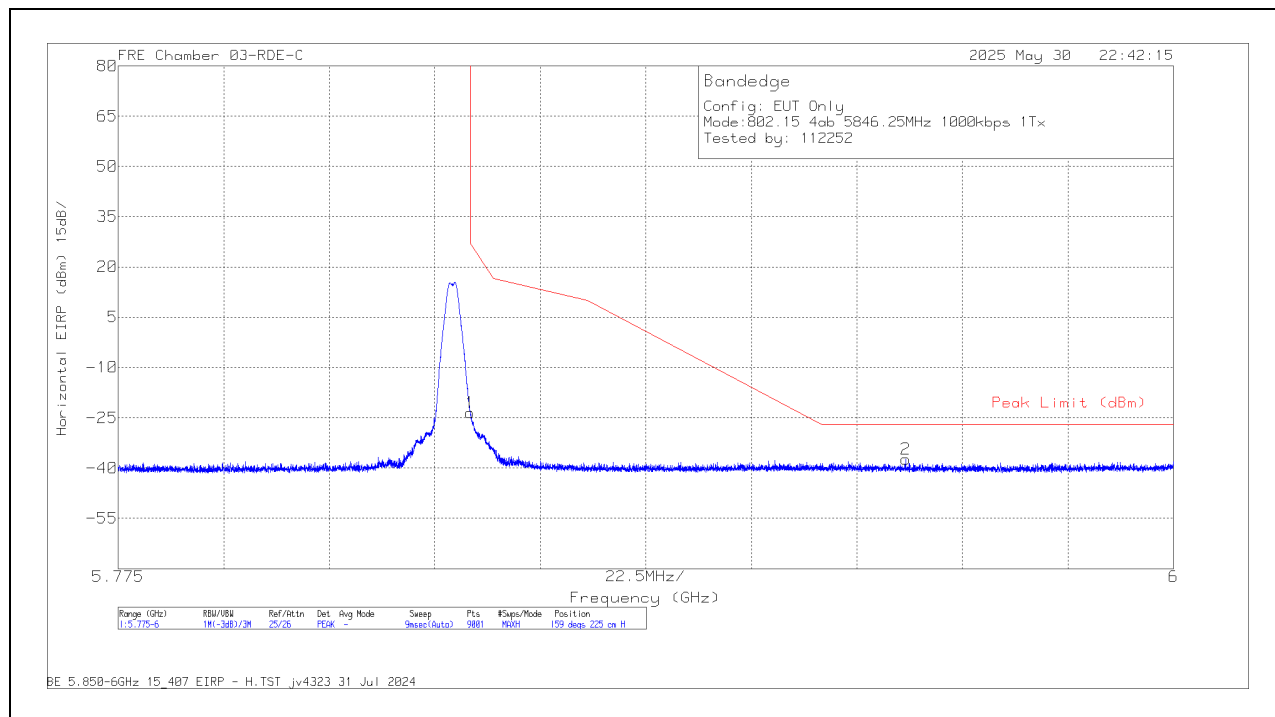


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-38.82	PK	34.9	11.8	0	-36.7	-28.82	27	-55.82	205	350	V
2	5.629683	-48.17	PK	34.8	11.8	0	-37	-38.57	-27	-11.57	205	350	V

PK - Peak detector

BANDEDGE (HIGH CHANNEL)

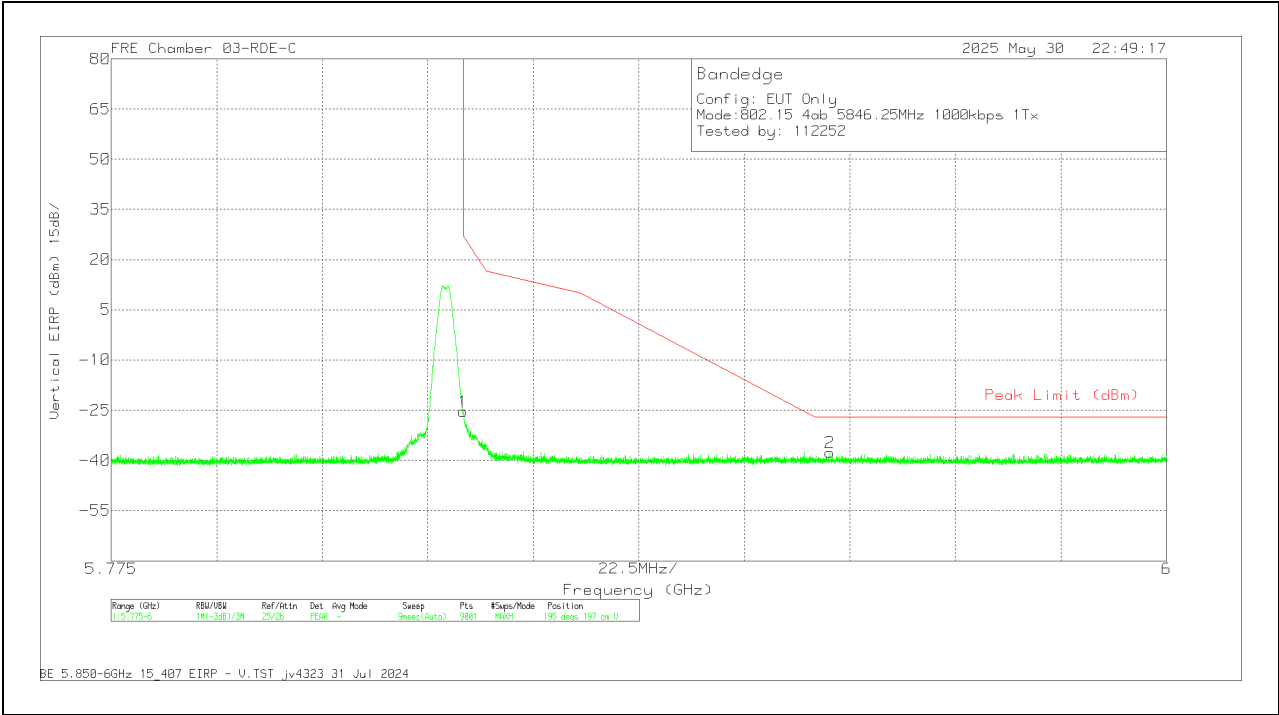
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-34.15	Pk	35.1	11.8	0	-36.2	-23.45	27	-50.45	159	225	H
2	5.942925	-48.21	Pk	35.2	11.8	0	-36.19	-37.4	-27	-10.4	159	225	H

Pk - Peak detector

VERTICAL RESULT

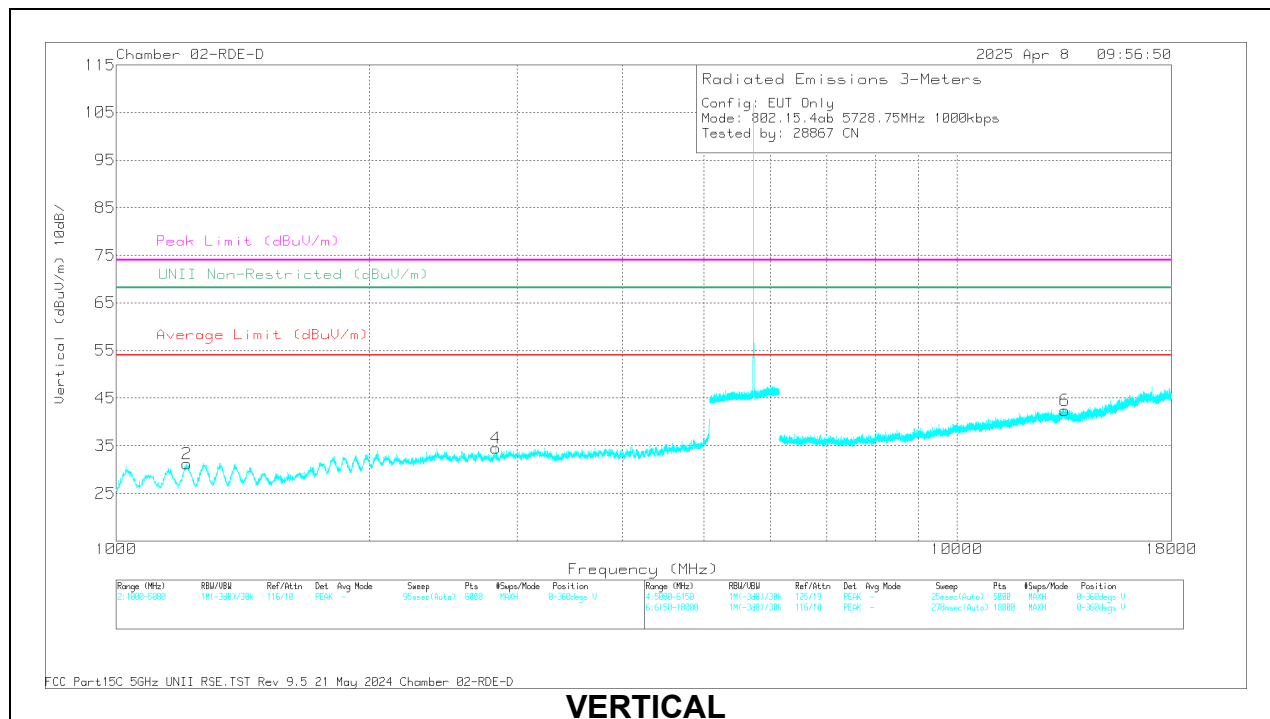
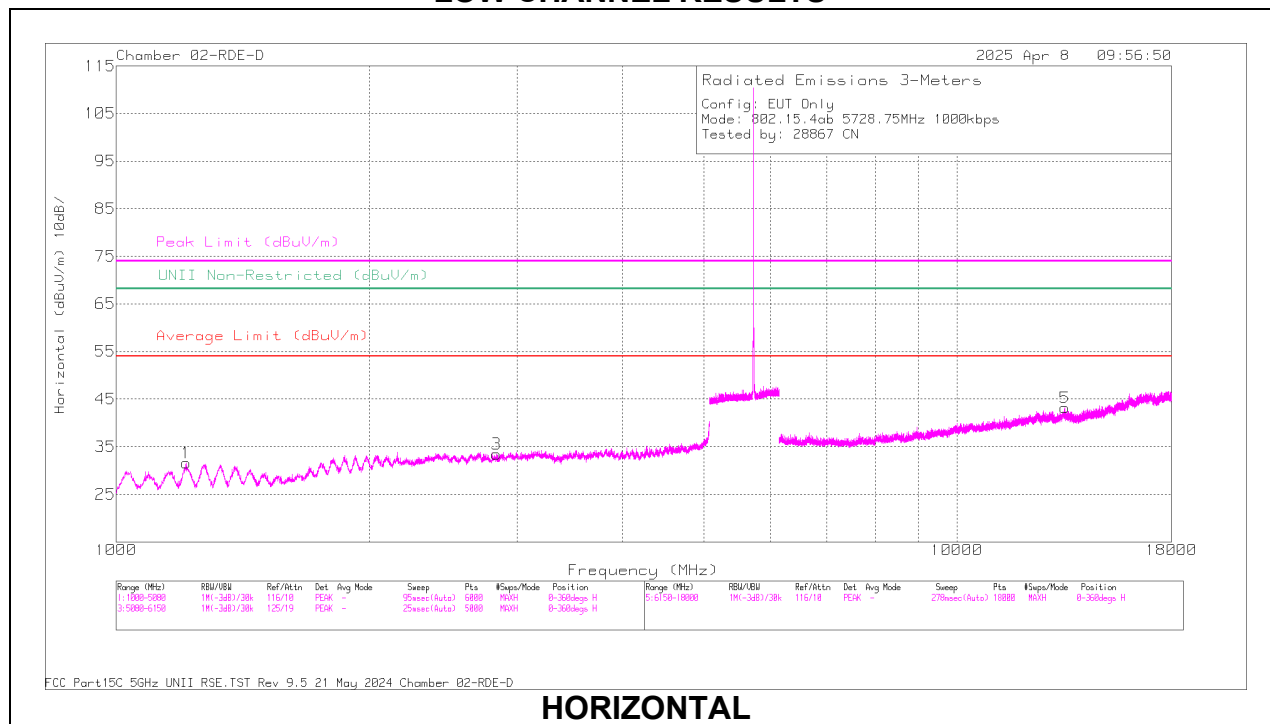


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-36.15	Pk	35.1	11.8	0	-36.2	-25.45	27	-52.45	195	197	V
2	5.928225	-48.54	Pk	35.2	11.8	0	-36.08	-37.62	-27	-10.62	195	197	V

Pk - Peak detector

10.1.2. ANT 6, 1000Kbps HIGH POWER HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

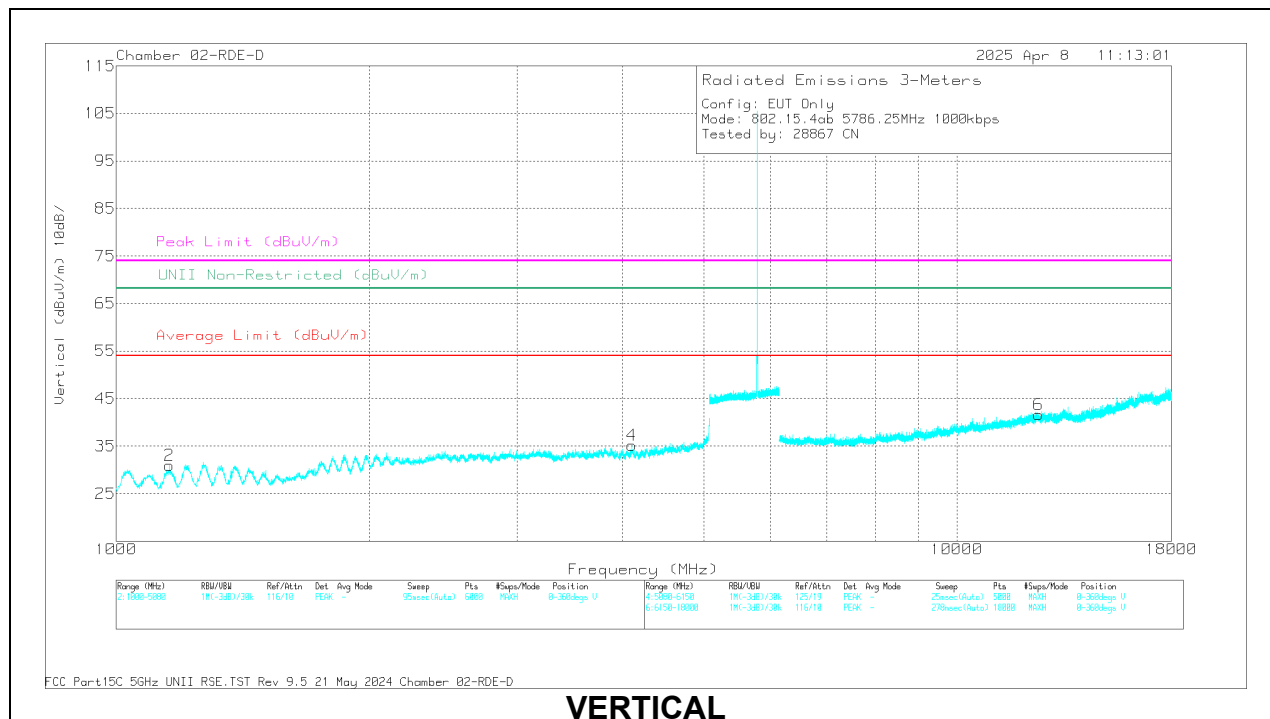
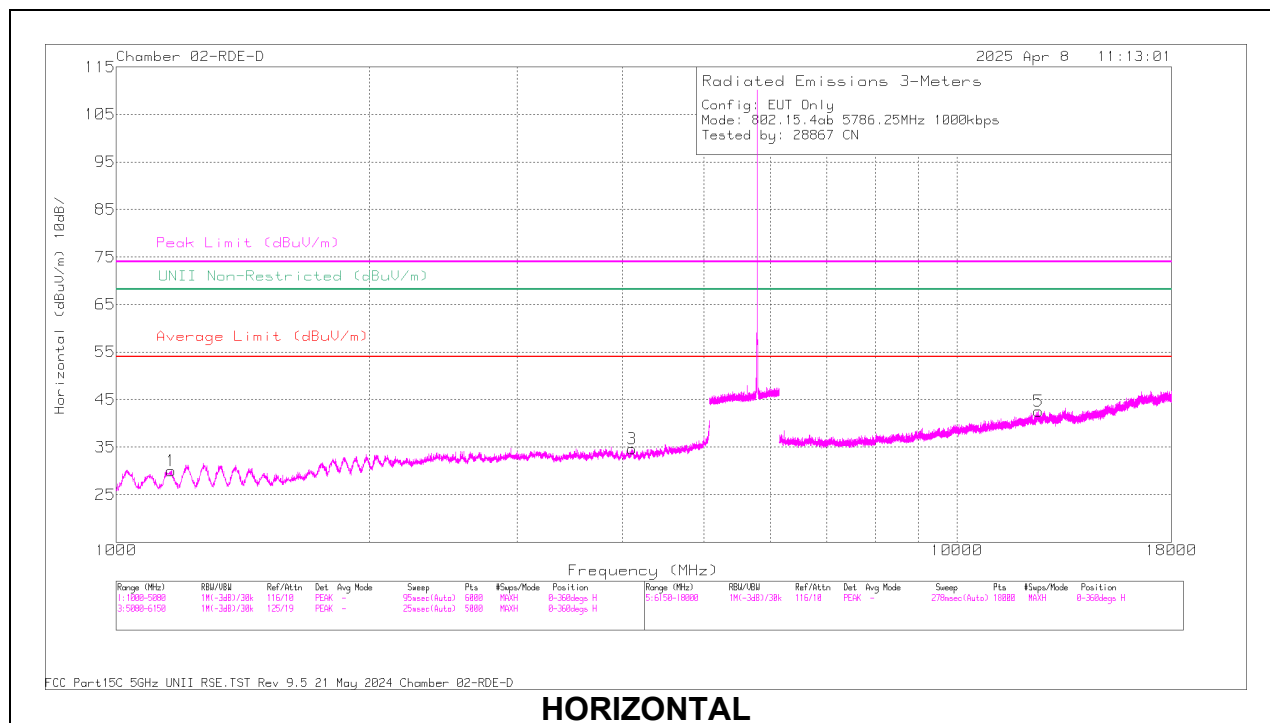
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl/Fitr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1205.979	60.83	PK-U	28.7	-48.8	0	40.73	-	-	74	-33.27	-	-	360	199	H
	* 1212.072	48.89	ADR	28.8	-48.8	6.39	35.28	54	-18.72	-	-	-	-	360	199	H
2	* 1217.899	61.21	PK-U	28.8	-48.9	0	41.11	-	-	74	-32.89	-	-	360	213	V
	* 1212.545	48.83	ADR	28.8	-48.8	6.39	35.22	54	-18.78	-	-	-	-	360	213	V
3	* 2816.468	56.85	PK-U	32.5	-46.8	0	42.55	-	-	74	-31.45	-	-	345	125	H
	* 2824.181	45.23	ADR	32.5	-46.9	6.39	37.22	54	-16.78	-	-	-	-	345	125	H
4	* 2811.781	57.14	PK-U	32.5	-46.8	0	42.84	-	-	74	-31.16	-	-	268	303	V
	* 2818.134	45.37	ADR	32.5	-46.8	6.39	37.46	54	-16.54	-	-	-	-	268	303	V
5	13442.649	52.78	PK-U	39.2	-38.9	0	53.08	-	-	-	-	68.2	-15.12	297	147	H
6	13447.898	52.13	PK-U	39.2	-39.4	0	51.93	-	-	-	-	68.2	-16.27	173	254	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

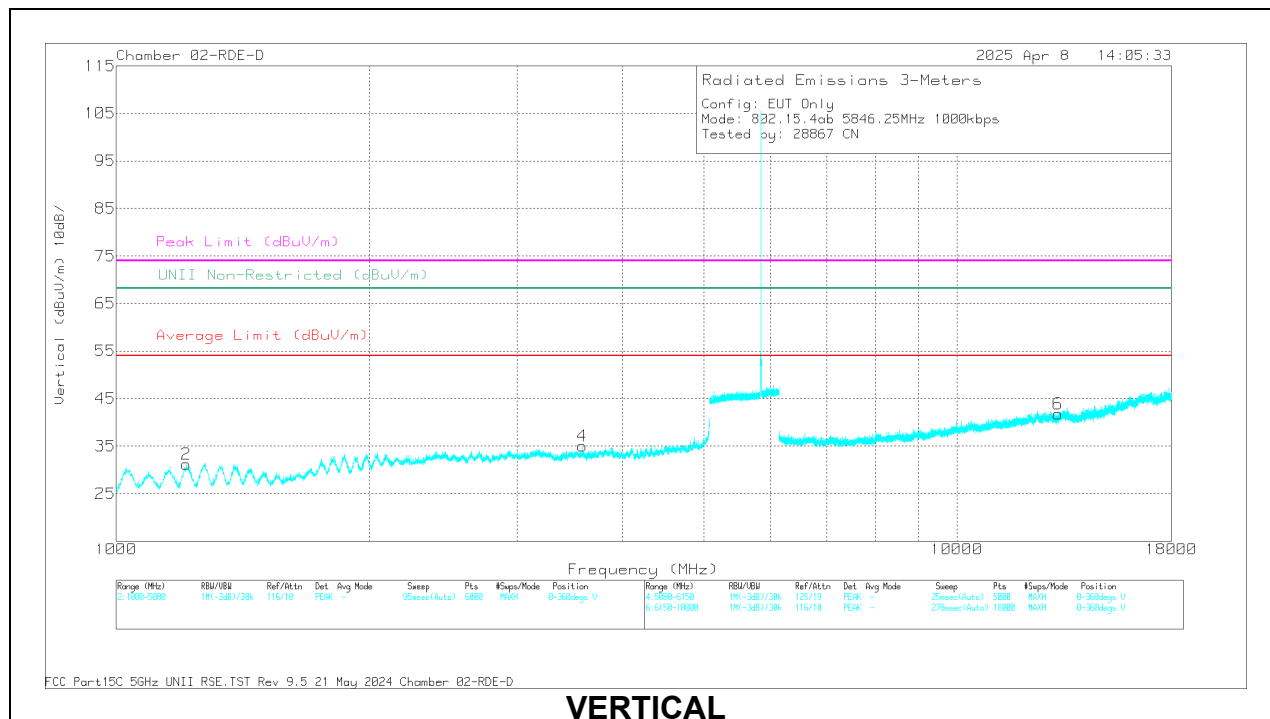
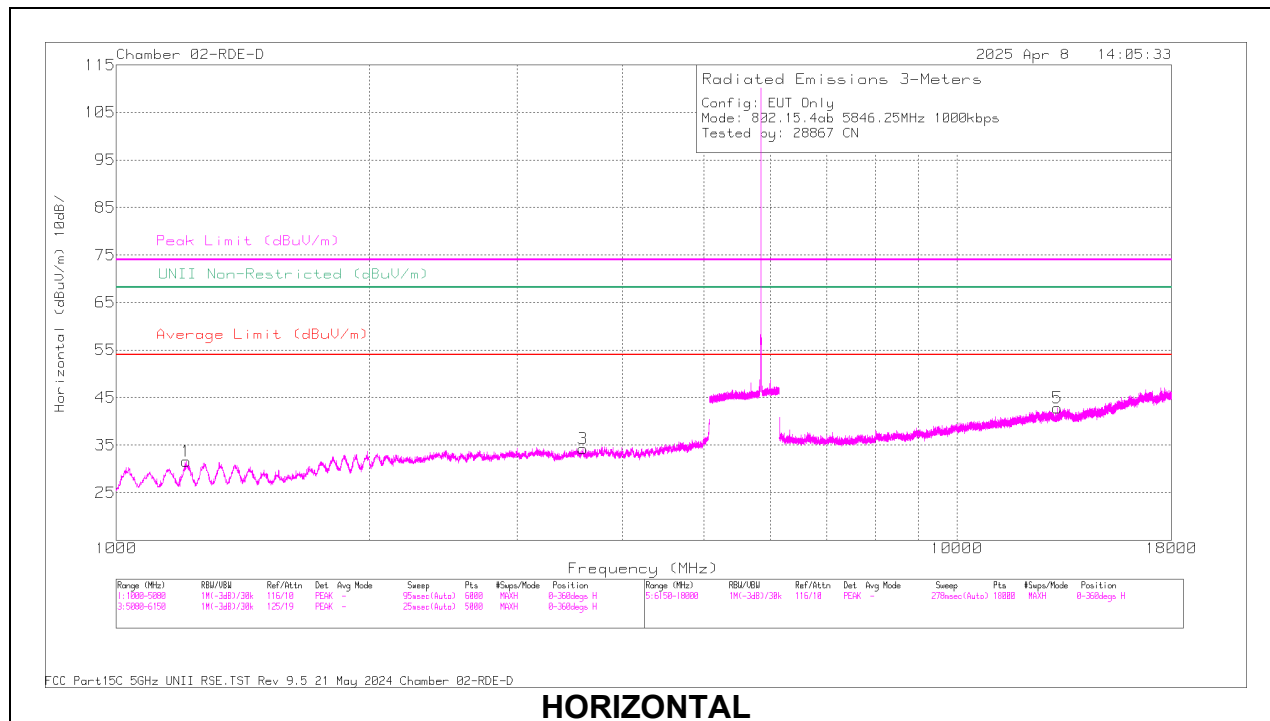
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl/Filtr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1156.477	60.91	PK-U	28	-49	0	39.91	-	-	74	-34.09	-	-	268	114	H
	* 1154.45	48.95	ADR	28	-49	6.39	34.34	54	-19.66	-	-	-	-	268	114	H
2	* 1149.603	60.89	PK-U	27.9	-49	0	39.79	-	-	74	-34.21	-	-	267	131	V
	* 1149.829	48.99	ADR	27.9	-49	6.39	34.28	54	-19.72	-	-	-	-	267	131	V
3	* 4095.94	56.99	PK-U	33.4	-46.1	0	44.29	-	-	74	-29.71	-	-	211	144	H
	* 4100.613	44.87	ADR	33.4	-46.2	6.39	38.46	54	-15.54	-	-	-	-	211	144	H
4	* 4106.92	57.48	PK-U	33.4	-46	0	44.88	-	-	74	-29.12	-	-	341	163	V
	* 4102.28	44.83	ADR	33.4	-46.2	6.39	38.42	54	-15.58	-	-	-	-	341	163	V
5	* 12502.879	52.79	PK-U	39	-39.7	0	52.09	-	-	74	-21.91	-	-	222	286	H
	* 12512.03	40.19	ADR	39	-39.7	6.39	45.88	54	-8.12	-	-	-	-	222	286	H
6	* 12514.683	52.13	PK-U	39	-39.5	0	51.63	-	-	74	-22.37	-	-	338	314	V
	* 12491.47	40.37	ADR	39	-39.7	6.39	46.06	54	-7.94	-	-	-	-	338	314	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl/Fitr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1213.736	61.08	PK-U	28.8	-48.8	0	41.08	-	-	74	-32.92	-	-	90	199	H
	* 1211.023	48.82	ADR	28.8	-49	6.39	35.01	54	-18.99	-	-	-	-	90	199	H
2	* 1214.112	60.62	PK-U	28.8	-48.8	0	40.62	-	-	74	-33.38	-	-	187	247	V
	* 1212.445	48.86	ADR	28.8	-48.8	6.39	35.25	54	-18.75	-	-	-	-	187	247	V
3	* 3587.007	55.75	PK-U	33.1	-44.9	0	43.95	-	-	74	-30.05	-	-	116	164	H
	* 3573.767	43.33	ADR	33.1	-45.1	6.39	37.72	54	-16.28	-	-	-	-	116	164	H
4	* 3583.186	55.68	PK-U	33.1	-44.8	0	43.98	-	-	74	-30.02	-	-	238	134	V
	* 3580.419	43.34	ADR	33.1	-44.8	6.39	38.03	54	-15.97	-	-	-	-	238	134	V
5	13194.794	51.93	PK-U	39	-39.5	0	51.43	-	-	-	-	68.2	-16.77	360	288	H
	13180.528	39.91	ADR	39	-39.7	6.39	45.6	-	-	-	-	-	-	360	288	H
6	13193.897	52.02	PK-U	39	-39.8	0	51.22	-	-	-	-	68.2	-16.98	263	200	V
	13191.648	39.75	ADR	39	-39.4	6.39	45.74	-	-	-	-	-	-	263	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

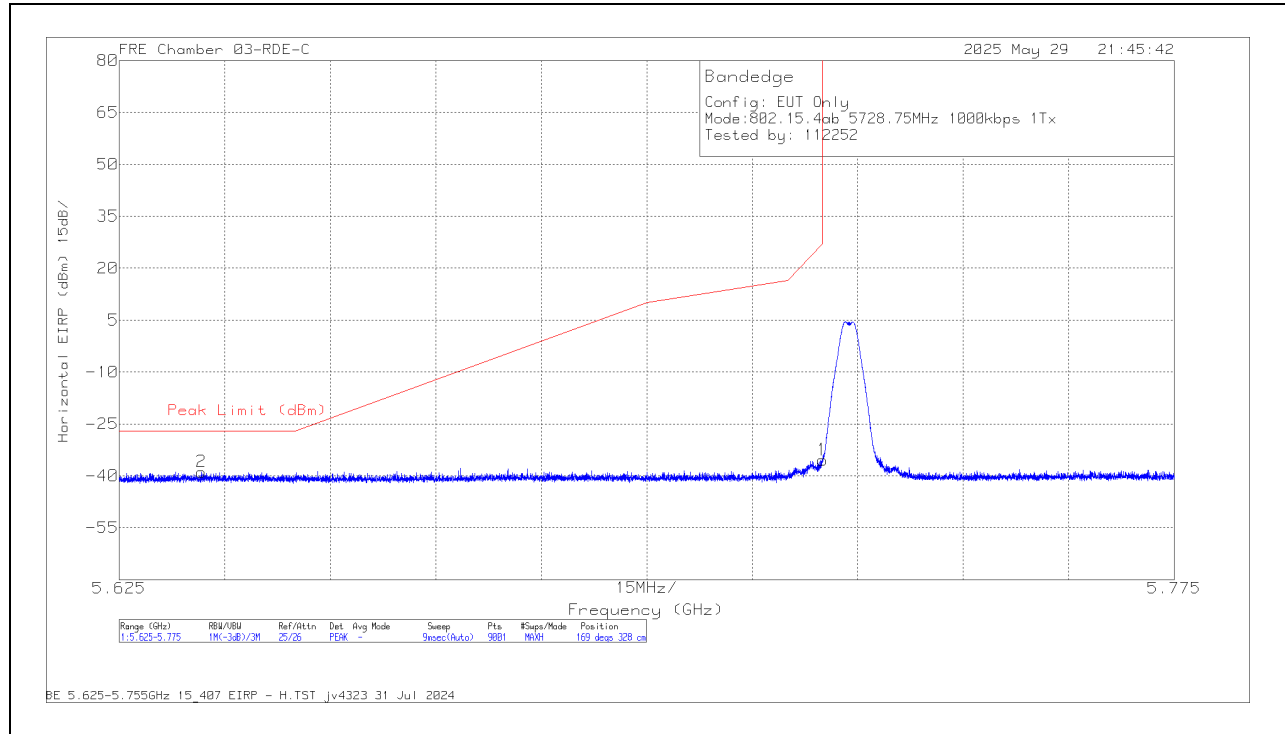
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.3. ANT 6, 1000Kbps LOW POWER BAND EDGE IN THE 5.8 GHz BAND

BANDEDGE (LOW CHANNEL)

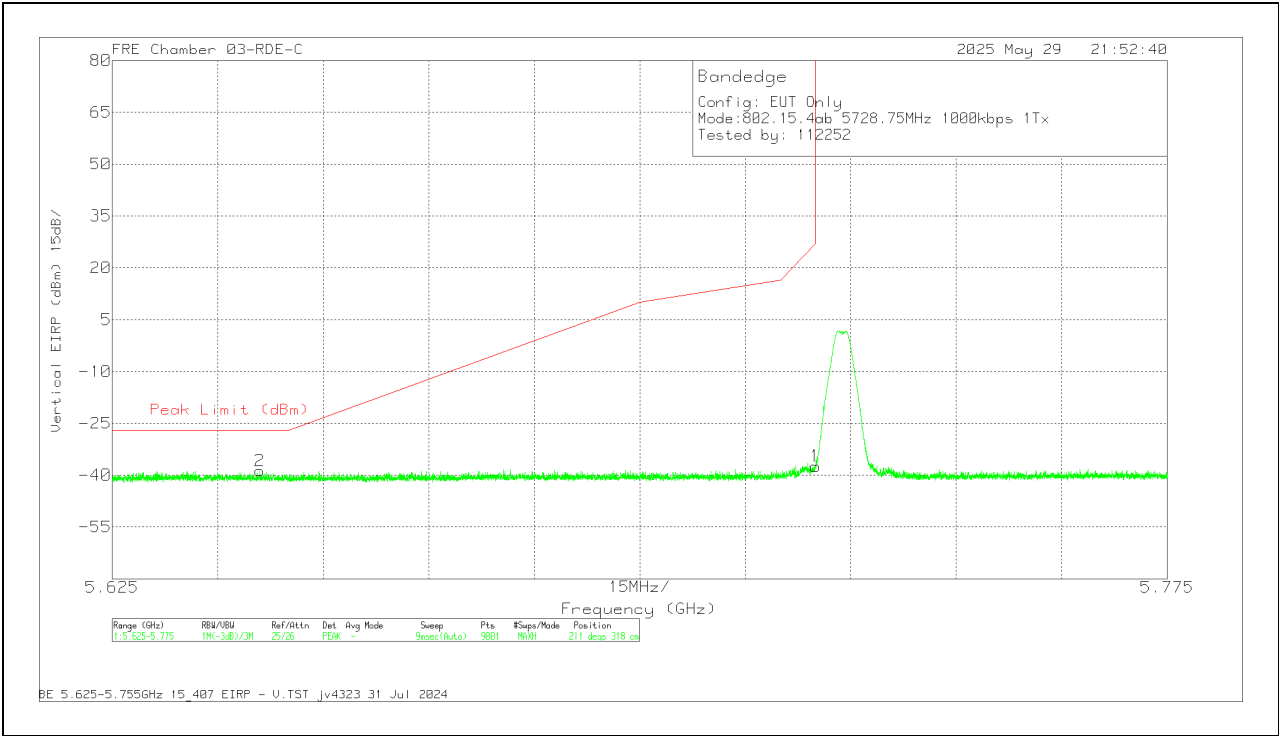
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-45.4	PK	34.9	11.8	0	-36.7	-35.4	27	-62.4	169	328	H
2	5.636717	-48.6	PK	34.8	11.8	0	-36.83	-38.83	-27	-11.83	169	328	H

PK - Peak detector

VERTICAL RESULT

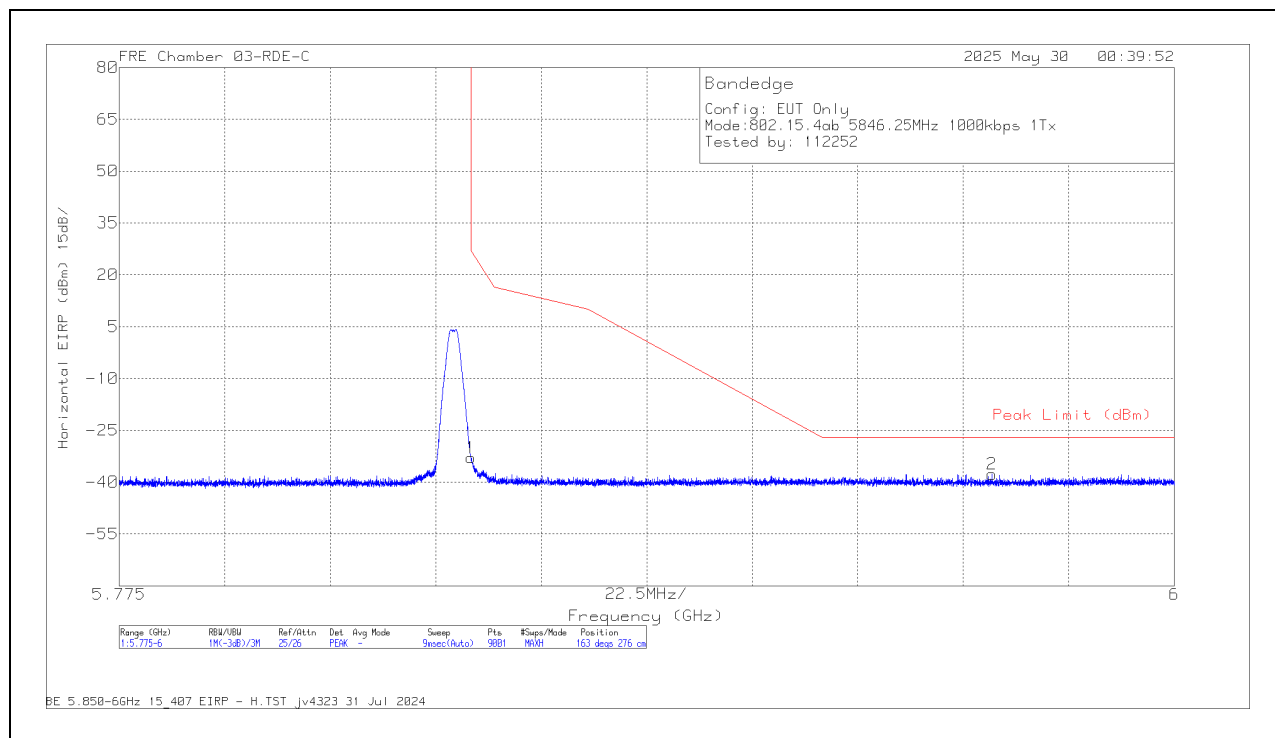


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-47.44	Pk	34.9	11.8	0	-36.7	-37.44	27	-64.44	211	318	V
2	5.64595	-48.53	Pk	34.8	11.8	0	-36.8	-38.73	-27	-11.73	211	318	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

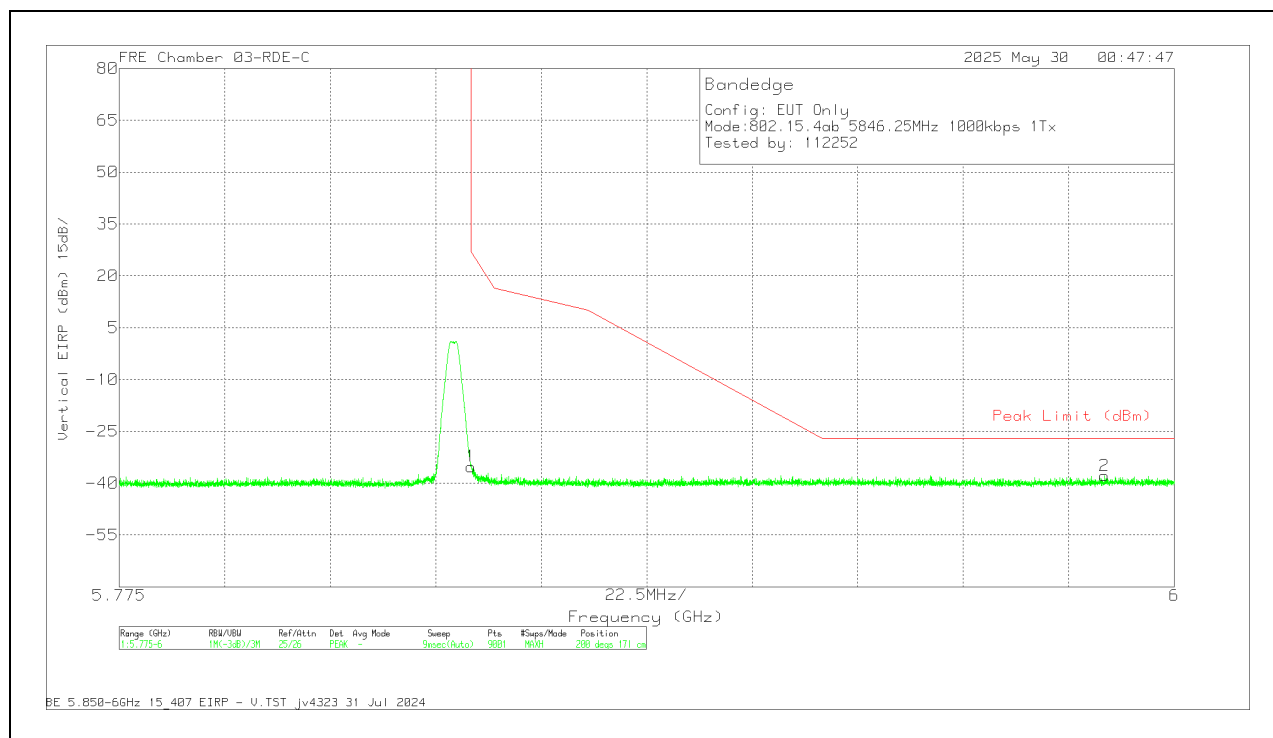
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-43.65	PK	35.1	11.8	0	-36.2	-32.95	27	-59.95	163	276	H
2	5.9611	-48.49	PK	35.2	11.8	0	-36.21	-37.7	-27	-10.7	163	276	H

PK - Peak detector

VERTICAL RESULT

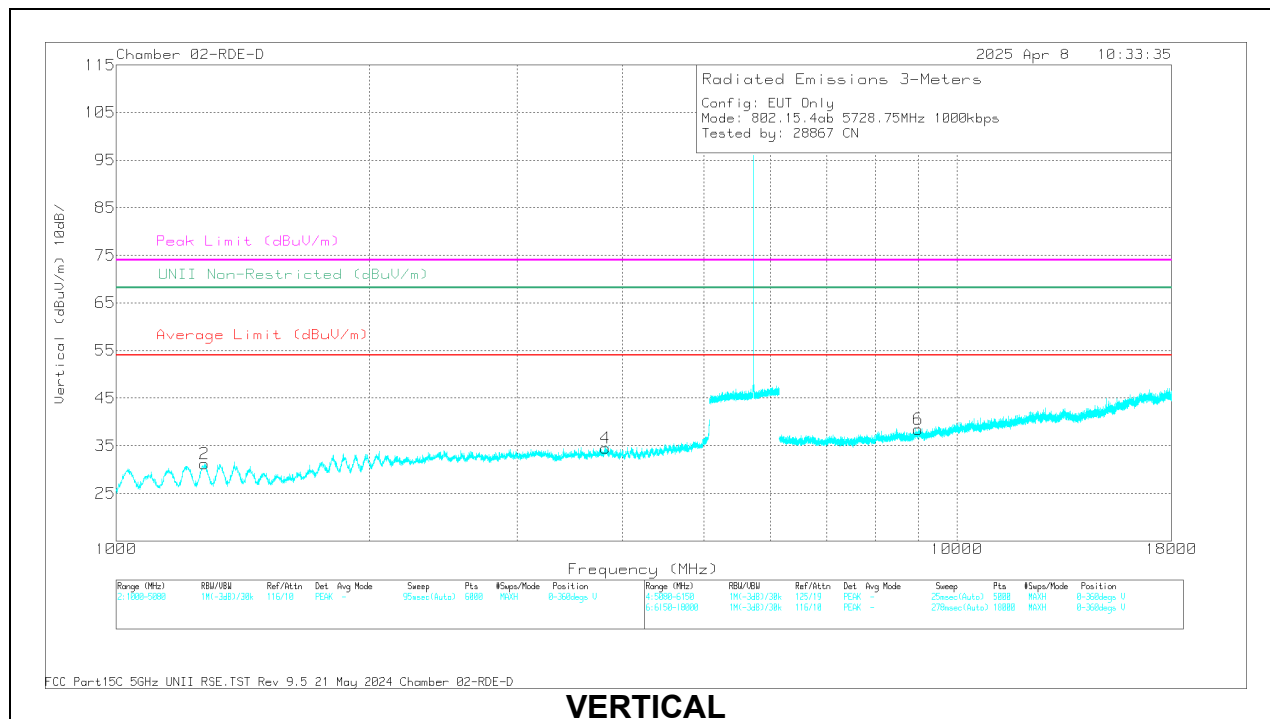
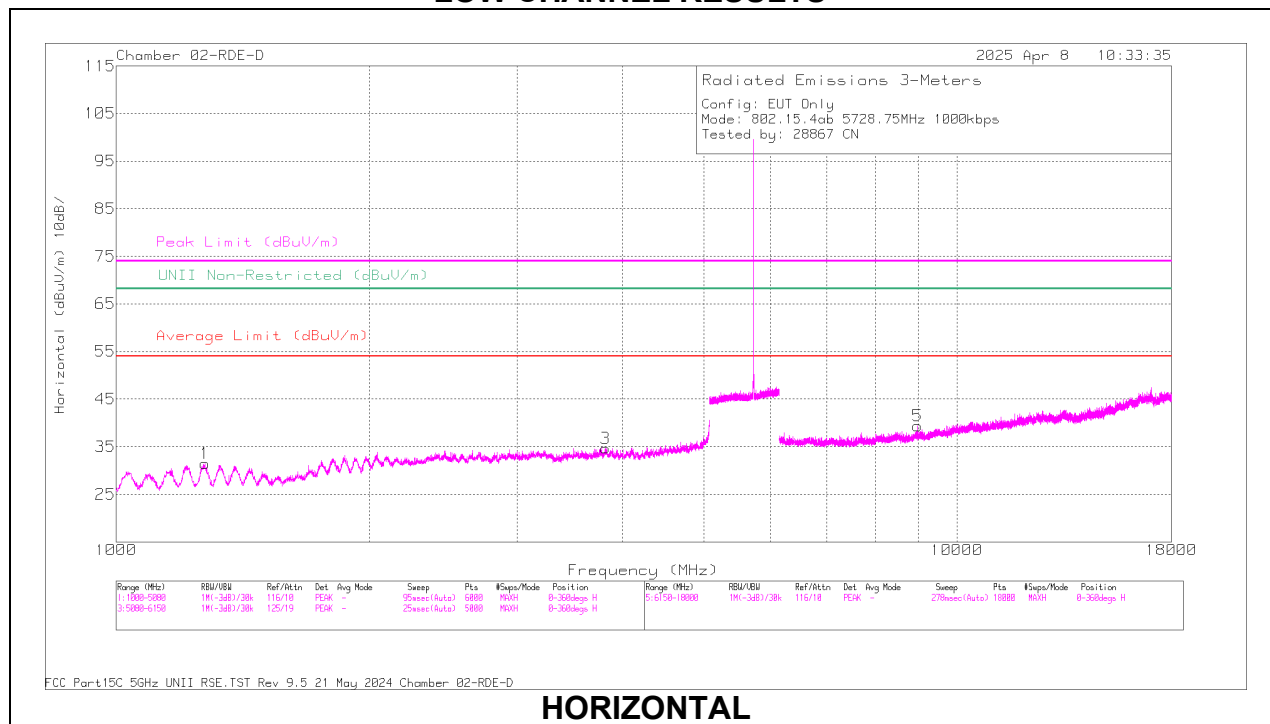


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-45.88	Pk	35.1	11.8	0	-36.2	-35.18	27	-62.18	200	171	V
2	5.985125	-48.83	Pk	35.3	11.8	0	-36.09	-37.82	-27	-10.82	200	171	V

Pk - Peak detector

10.1.4. ANT 6, 1000Kbps LOW POWER HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

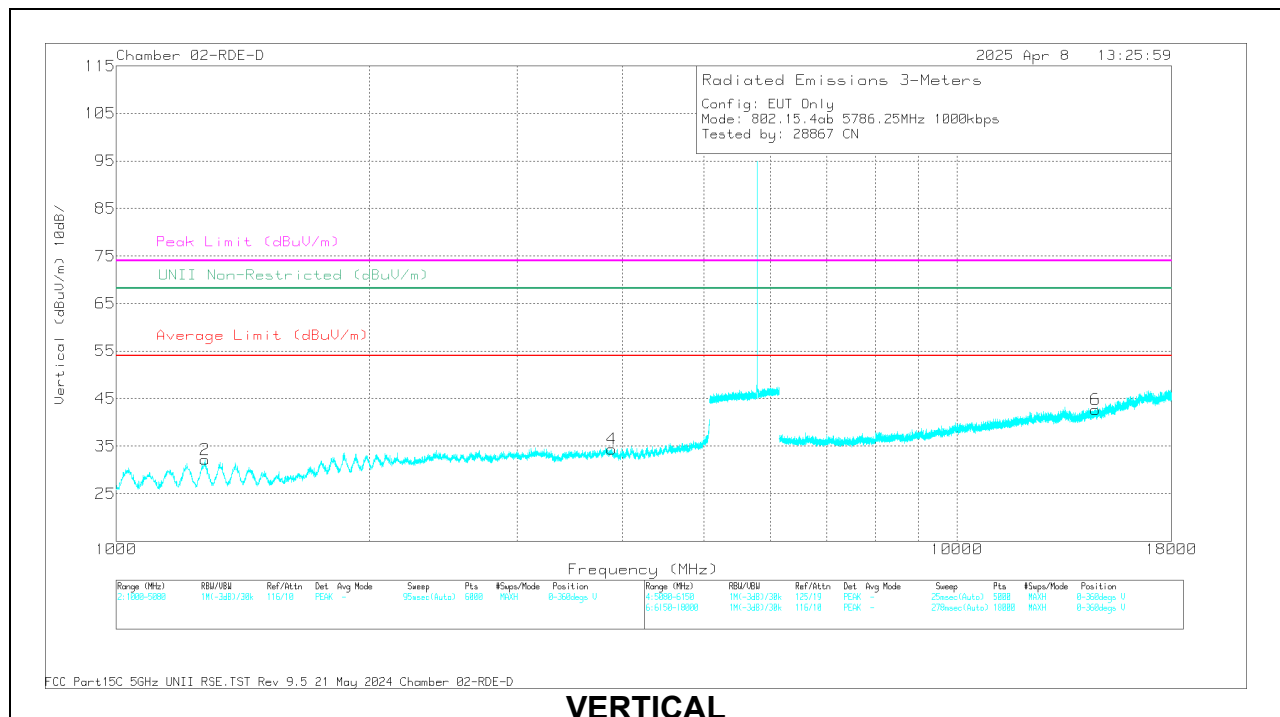
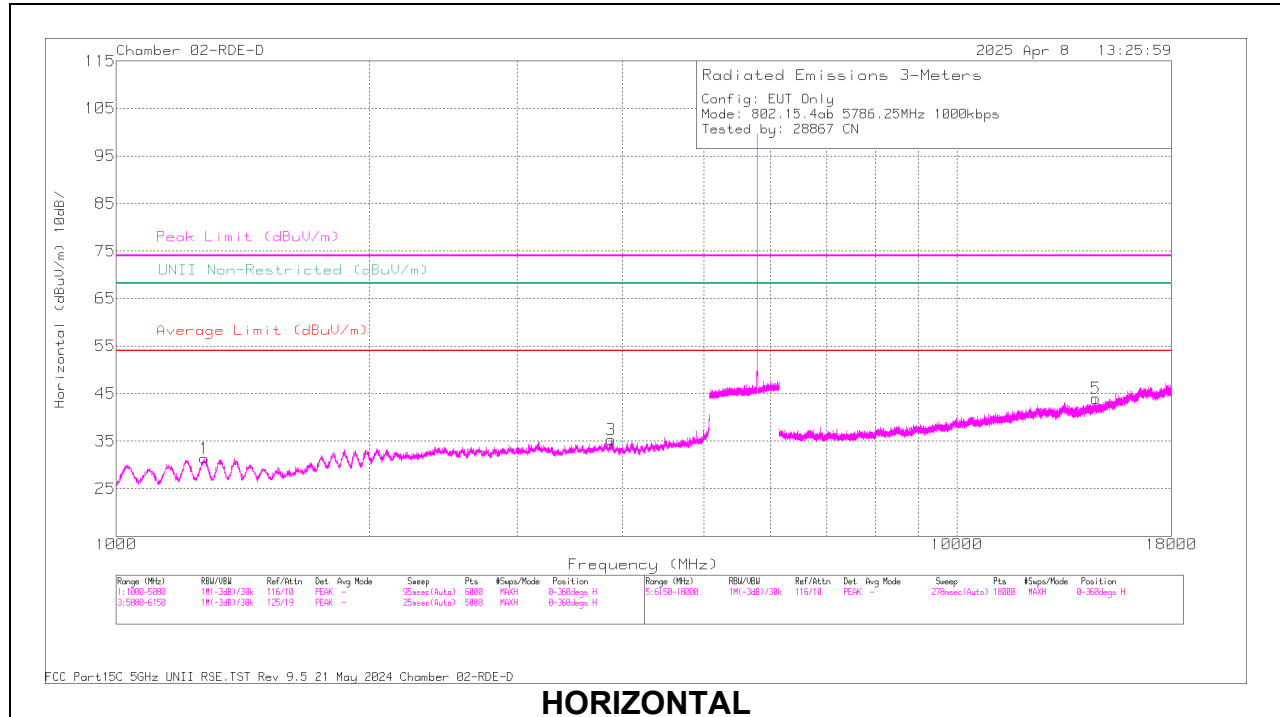
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl/Filtr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1272.522	60.74	PK-U	29.2	-48.9	0	41.04	-	-	74	-32.96	-	-	66	369	H
	* 1273.576	48.73	ADR	29.2	-48.7	6.39	35.62	54	-18.38	-	-	-	-	66	369	H
2	* 1275.455	60.51	PK-U	29.2	-48.8	0	40.91	-	-	74	-33.09	-	-	219	274	V
	* 1273.062	48.76	ADR	29.2	-48.8	6.39	35.55	54	-18.45	-	-	-	-	219	274	V
3	* 3814.426	56.44	PK-U	33.5	-45.7	0	44.24	-	-	74	-29.76	-	-	124	170	H
	* 3814.232	44.35	ADR	33.5	-45.7	6.39	38.54	54	-15.46	-	-	-	-	124	170	H
4	* 3816.792	56.75	PK-U	33.5	-45.8	0	44.45	-	-	74	-29.55	-	-	323	207	V
	* 3816.058	44.31	ADR	33.5	-45.8	6.39	38.4	54	-15.6	-	-	-	-	323	207	V
5	8983.274	53.53	PK-U	36.2	-42.1	0	47.63	-	-	-	-	68.2	-20.57	342	271	H
6	* 9004.274	53.45	PK-U	36.2	-41.8	0	47.85	-	-	74	-26.15	-	-	255	126	V
	* 9011.576	41.4	ADR	36.2	-42	6.39	41.99	54	-12.01	-	-	-	-	255	126	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

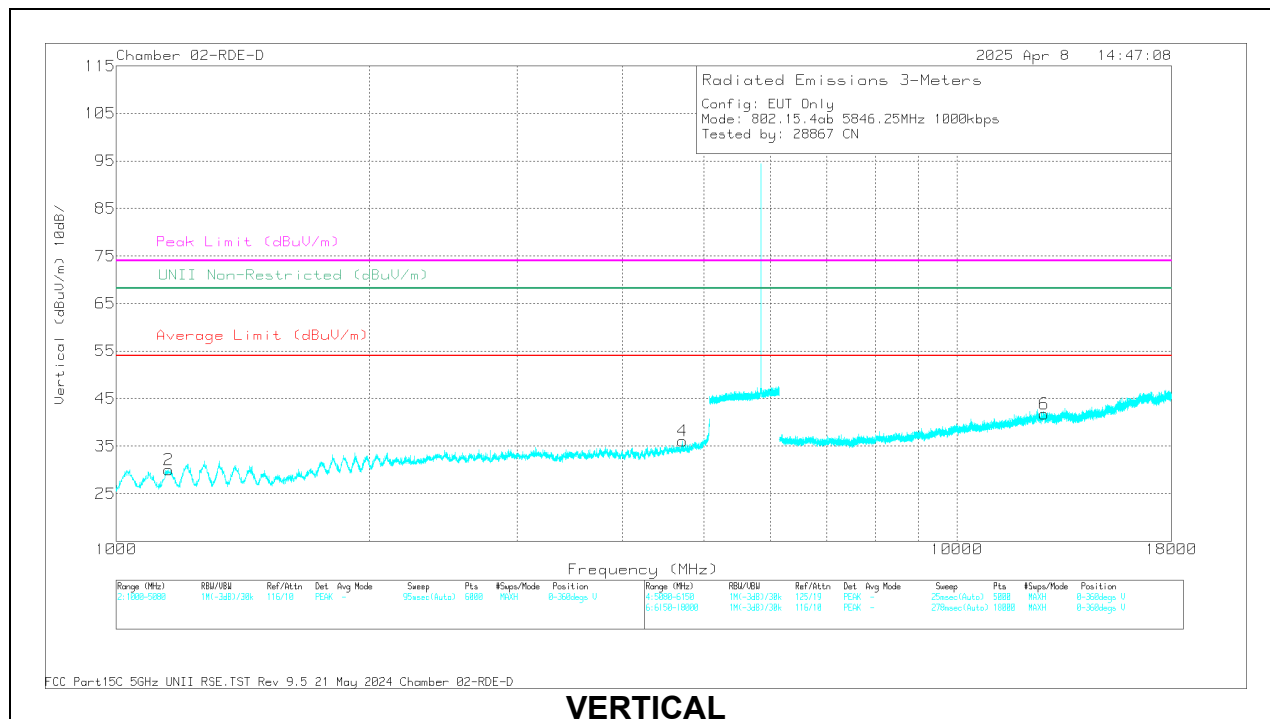
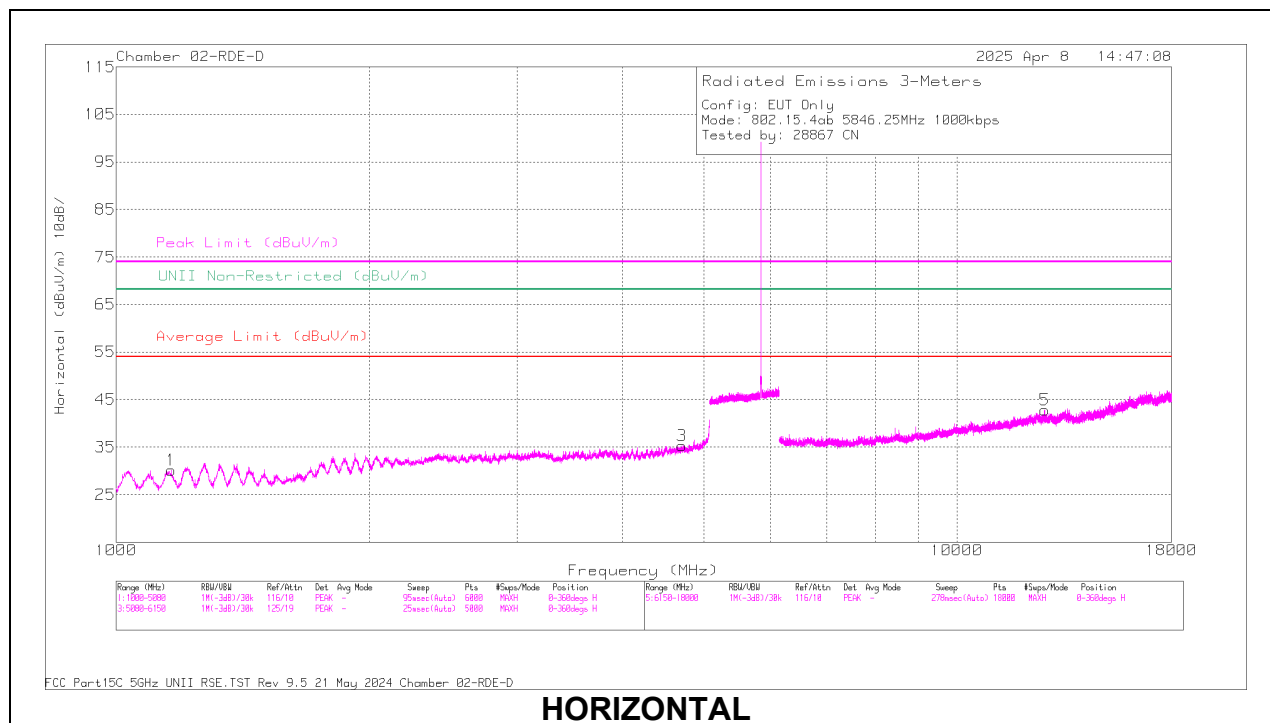
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl/Filtr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1268.565	60.62	PK-U	29.1	-48.8	0	40.92	-	-	74	-33.08	-	-	5	327	H
	* 1274.119	48.83	ADR	29.2	-48.7	6.39	35.72	54	-18.28	-	-	-	-	5	327	H
2	* 1276.736	60.31	PK-U	29.2	-48.8	0	40.71	-	-	74	-33.29	-	-	237	200	V
	* 1272.803	48.79	ADR	29.2	-48.8	6.39	35.58	54	-18.42	-	-	-	-	237	200	V
3	* 3862.829	55.6	PK-U	33.5	-45.5	0	43.6	-	-	74	-30.4	-	-	119	230	H
	* 3878.102	43.82	ADR	33.5	-45.3	6.39	38.41	54	-15.59	-	-	-	-	119	230	H
4	* 3886.023	55.59	PK-U	33.5	-45.2	0	43.89	-	-	74	-30.11	-	-	172	223	V
	* 3879.983	43.89	ADR	33.5	-45.3	6.39	38.48	54	-15.52	-	-	-	-	172	223	V
5	14631.234	51.86	PK-U	39.5	-39.4	0	51.96	-	-	-	-	68.2	-16.24	157	246	H
6	14613.231	52.52	PK-U	39.5	-39.1	0	52.92	-	-	-	-	68.2	-15.28	162	318	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl/Filtr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1150.724	61.6	PK-U	27.9	-49	0	40.5	-	-	74	-33.5	-	-	353	171	H
	* 1152.65	48.94	ADR	27.9	-49.1	6.39	34.13	54	-19.87	-	-	-	-	353	171	H
2	* 1160.349	60.83	PK-U	28	-49.1	0	39.73	-	-	74	-34.27	-	-	313	176	V
	* 1155.002	48.93	ADR	28	-49.1	6.39	34.22	54	-19.78	-	-	-	-	313	176	V
3	* 4728.28	56.36	PK-U	34.1	-45.3	0	45.16	-	-	74	-28.84	-	-	325	224	H
	* 4715.294	44.29	ADR	34.1	-45.5	6.39	39.28	54	-14.72	-	-	-	-	325	224	H
4	* 4704.668	56.39	PK-U	34	-45.5	0	44.89	-	-	74	-29.11	-	-	67	303	V
	* 4716.594	44.3	ADR	34.1	-45.6	6.39	39.19	54	-14.81	-	-	-	-	67	303	V
6	* 11568.021	52.47	PK-U	38.2	-40.3	0	50.37	-	-	74	-23.63	-	-	223	258	V
	* 11717.104	40.34	ADR	38.4	-40.2	6.39	44.93	54	-9.07	-	-	-	-	223	258	V
5	12714.379	52.07	PK-U	39.2	-39.7	0	51.57	-	-	-	-	68.2	-16.63	128	211	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

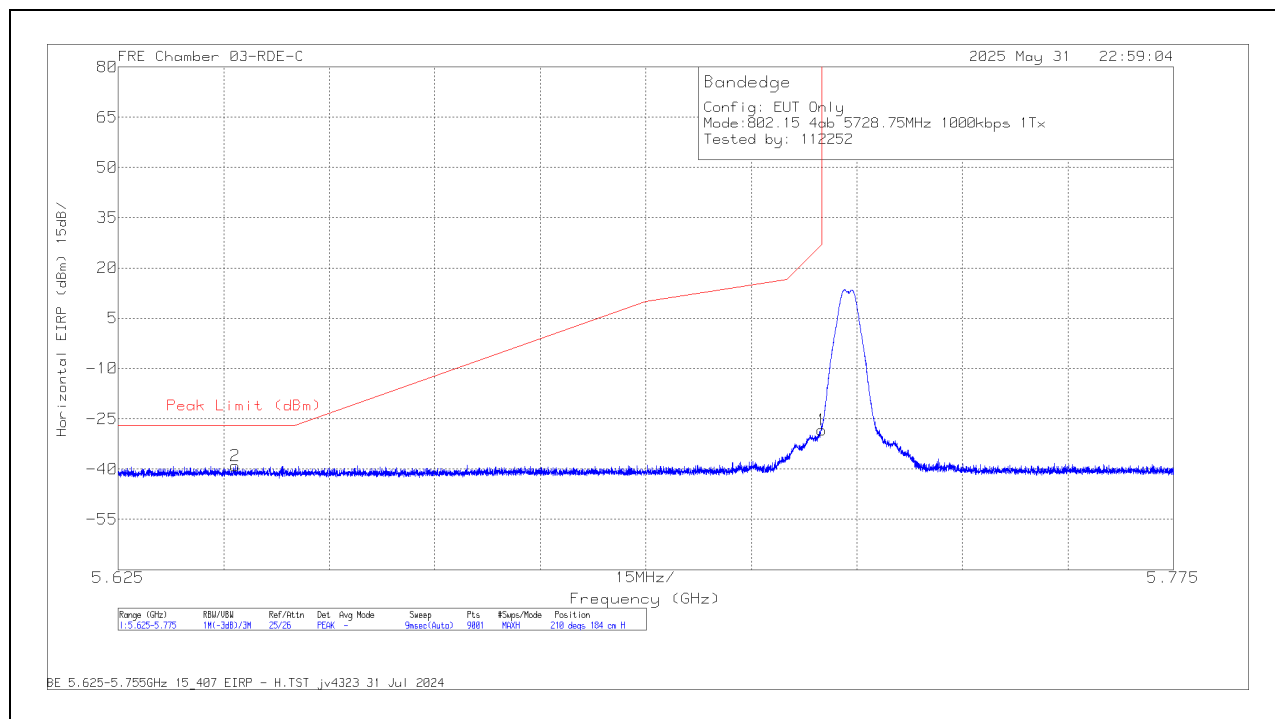
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.5. ANT 5, 1000Kbps, HIGH POWER BAND EDGE IN THE 5.8 GHz BAND

BANDEDGE (LOW CHANNEL)

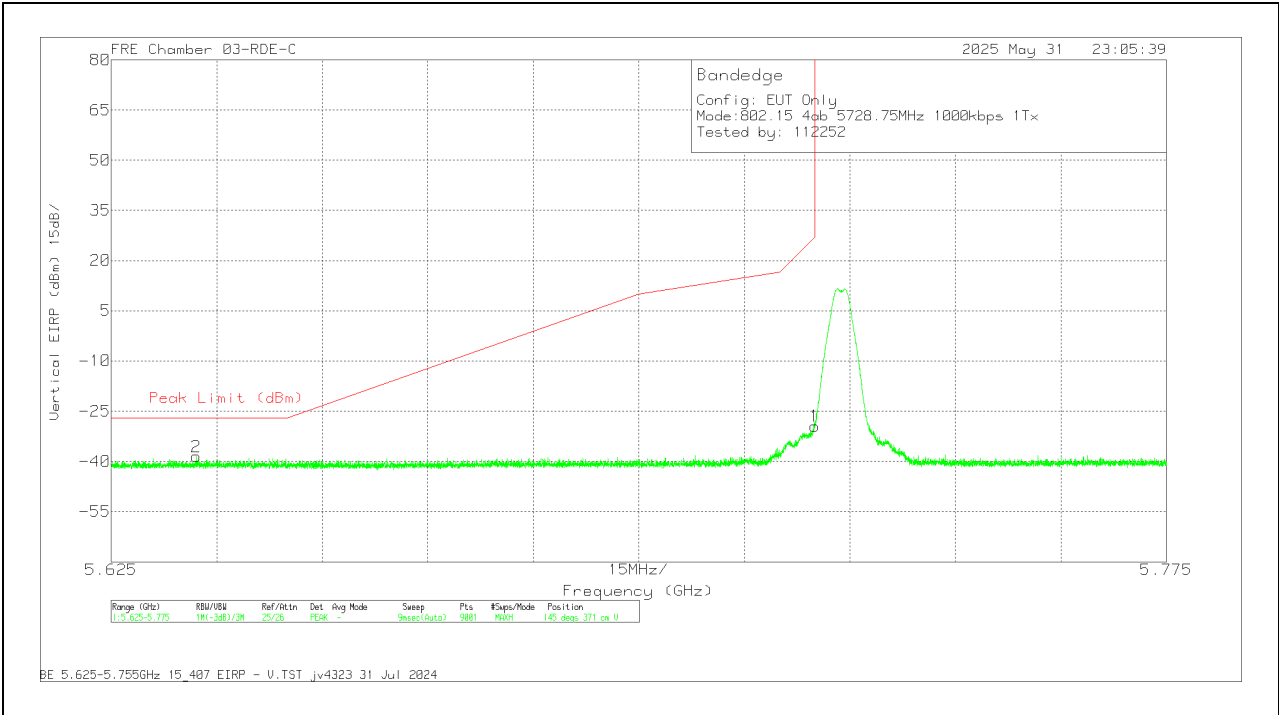
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-38.3	Pk	34.9	11.8	0	-36.7	-28.3	27	-55.3	210	184	H
2	5.641634	-48.83	Pk	34.8	11.8	0	-36.84	-39.07	-27	-12.07	210	184	H

Pk - Peak detector

VERTICAL RESULT

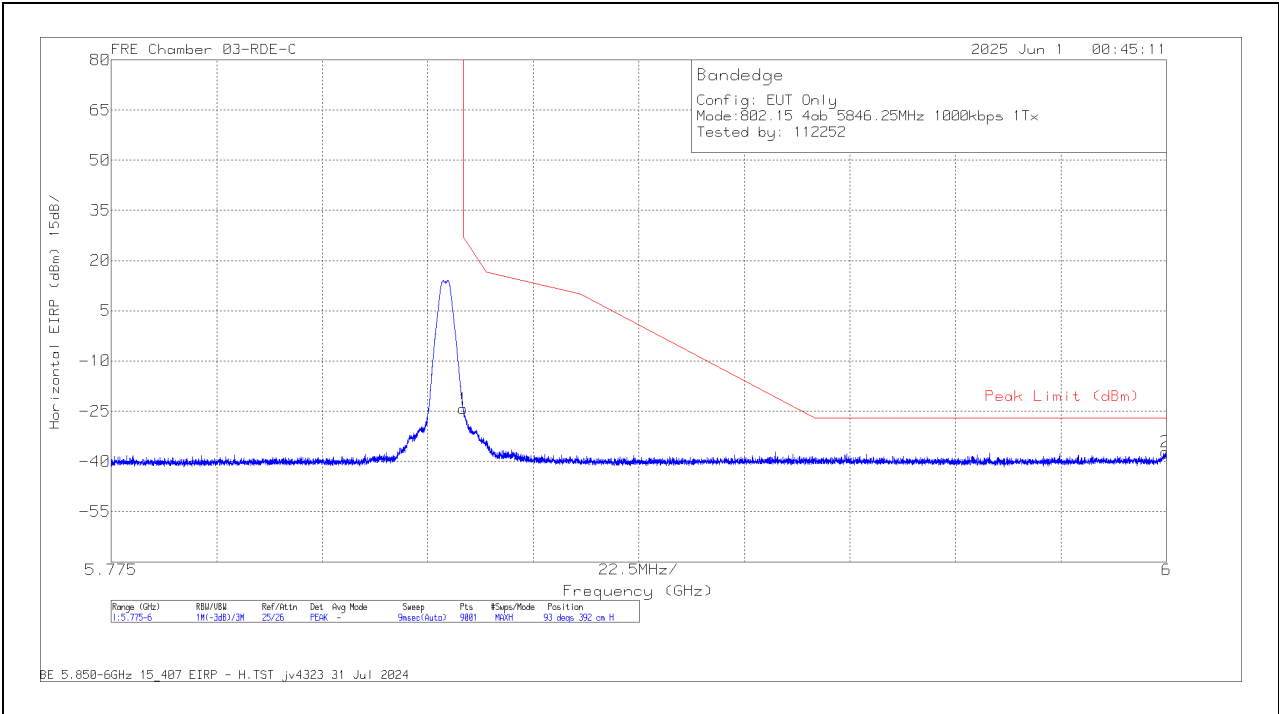


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-39.5	Pk	34.9	11.8	0	-36.7	-29.5	27	-56.5	145	371	V
2	5.637134	-48.34	Pk	34.8	11.8	0	-36.81	-38.55	-27	-11.55	145	371	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

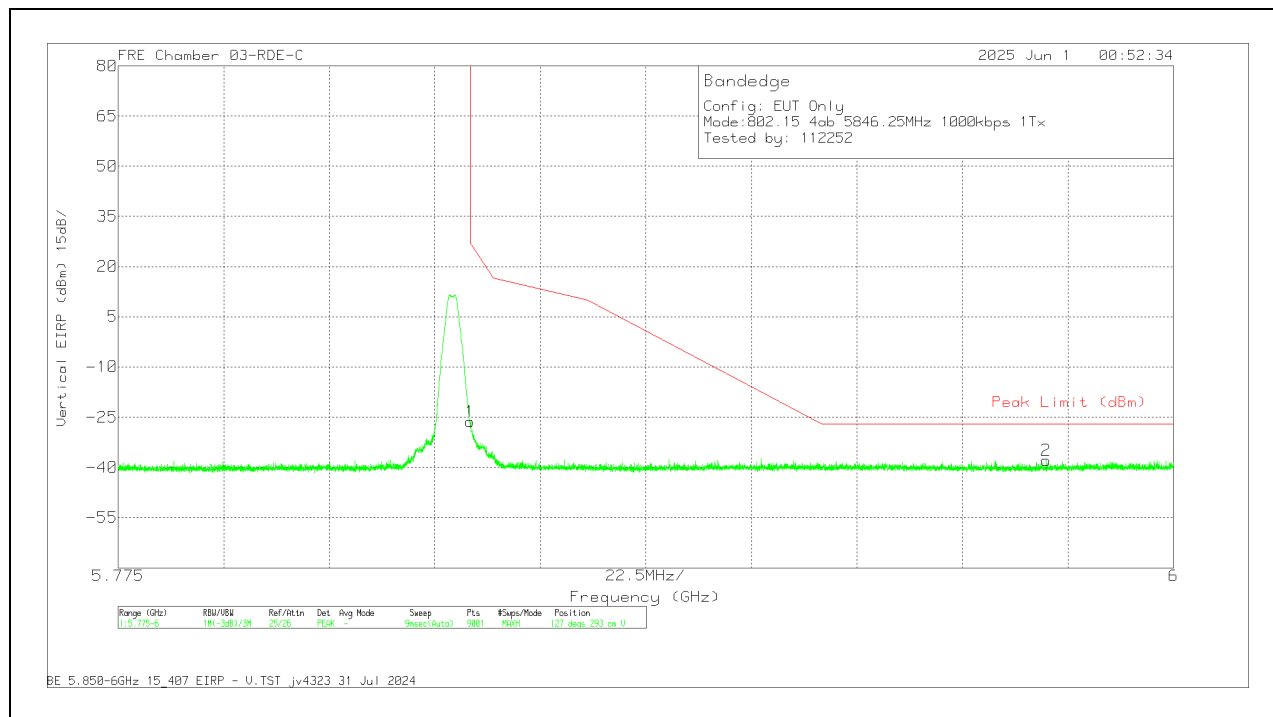
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	5.85	-34.87	Pk	35.1	11.8	0	-36.2	-24.17	27	-51.17	93	392	H
2	5.99985	-48.12	Pk	35.3	11.8	0	-36.19	-37.21	-27	-10.21	93	392	H

Pk - Peak detector

VERTICAL RESULT

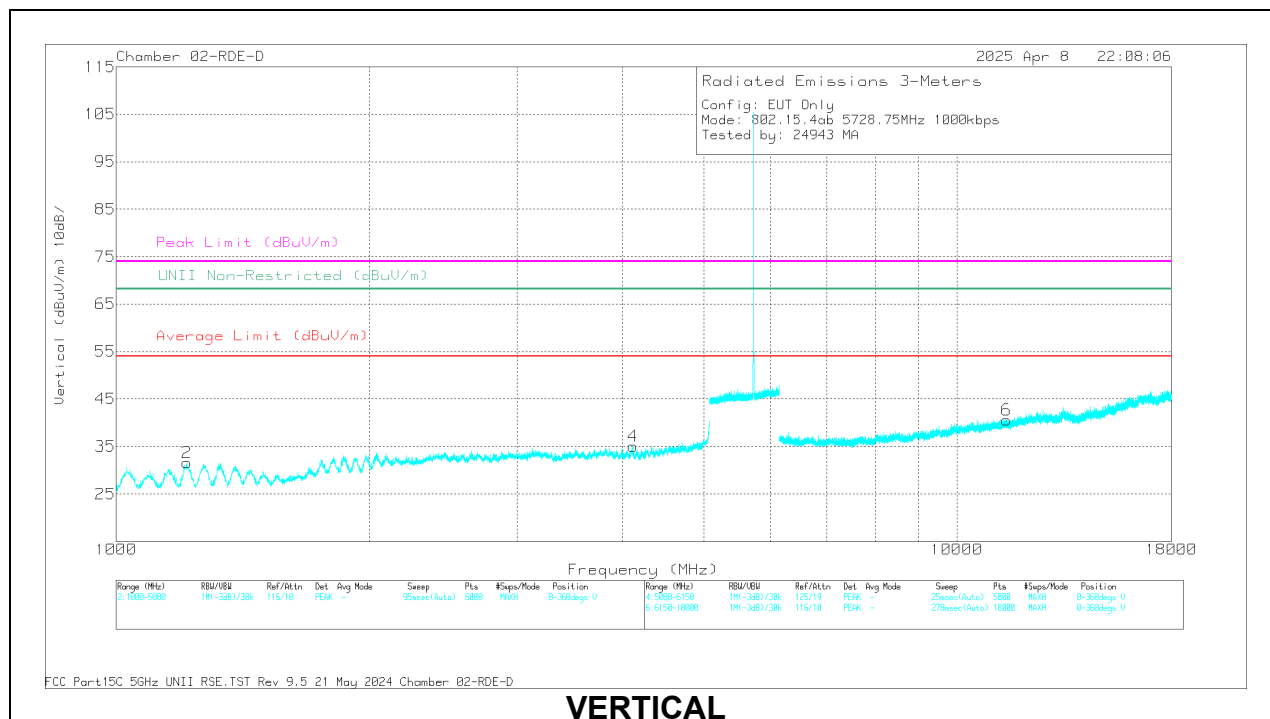
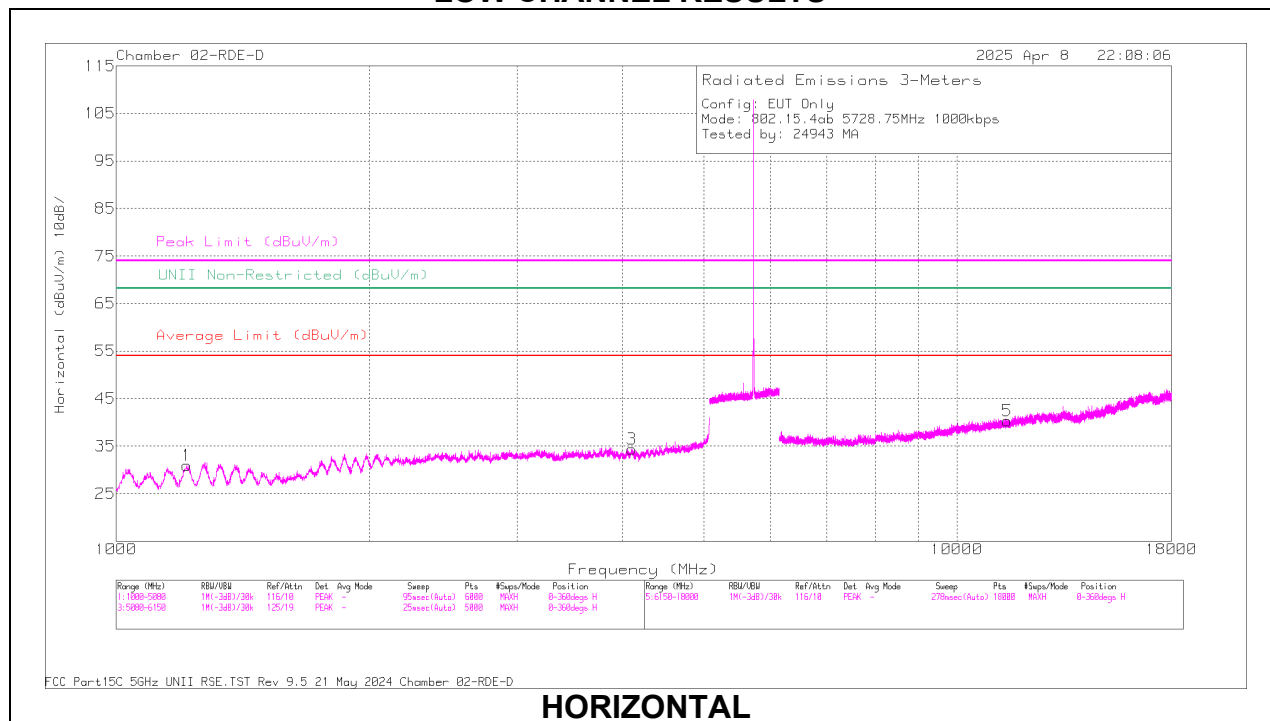


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-37.02	Pk	35.1	11.8	0	-36.2	-26.32	27	-53.32	127	293	V
2	5.9729	-48.69	Pk	35.2	11.8	0	-36.2	-37.89	-27	-10.89	127	293	V

Pk - Peak detector

10.1.6. ANT 5, 1000Kbps HIGH POWER HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

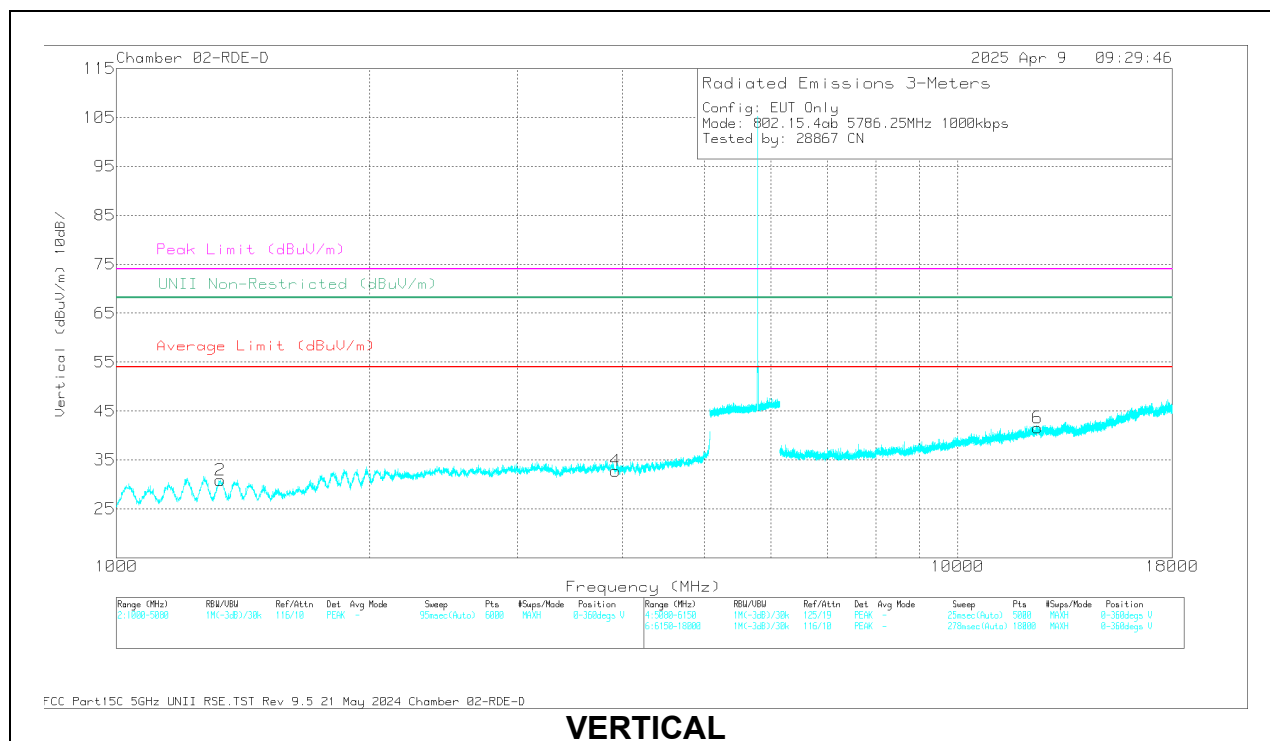
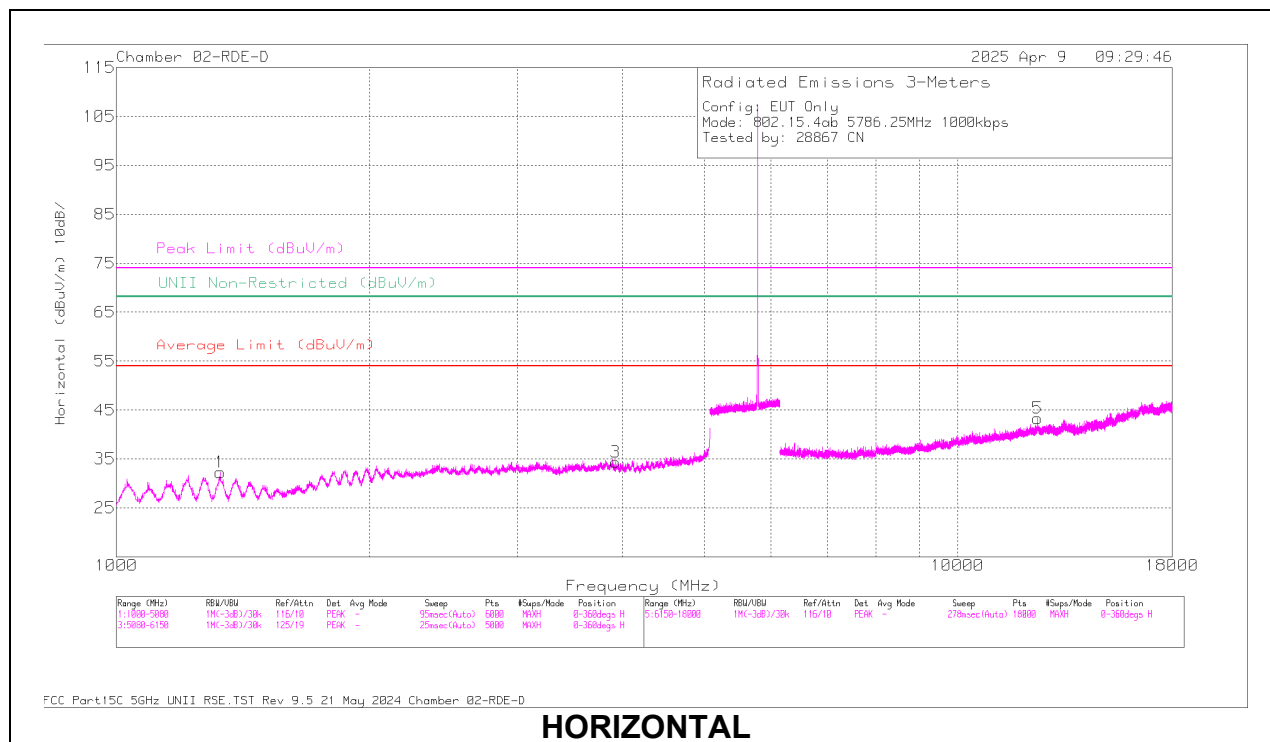
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl/Filtr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1215.872	60.55	PK-U	28.8	-48.8	0	40.55	-	-	74	-33.45	-	-	360	101	H
	* 1212.152	48.89	ADR	28.8	-48.8	6.39	35.28	54	-18.72	-	-	-	-	360	101	H
2	* 1213.145	60.64	PK-U	28.8	-48.8	0	40.64	-	-	74	-33.36	-	-	360	199	V
	* 1215.499	48.89	ADR	28.8	-48.8	6.39	35.28	54	-18.72	-	-	-	-	360	199	V
3	* 4109.8	57.76	PK-U	33.4	-46	0	45.16	-	-	74	-28.84	-	-	360	199	H
	* 4101.9	44.9	ADR	33.4	-46.2	6.39	38.49	54	-15.51	-	-	-	-	360	199	H
4	* 4107.368	56.59	PK-U	33.4	-46	0	43.99	-	-	74	-30.01	-	-	360	101	V
	* 4105.588	44.82	ADR	33.4	-46.1	6.39	38.51	54	-15.49	-	-	-	-	360	101	V
5	* 11477.62	52.32	PK-U	38.3	-40.6	0	50.02	-	-	74	-23.98	-	-	360	199	H
	* 11480.415	40.44	ADR	38.3	-40.6	6.39	44.53	54	-9.47	-	-	-	-	360	199	H
6	* 11442.569	51.97	PK-U	38.3	-40.4	0	49.87	-	-	74	-24.13	-	-	360	101	V
	* 11469.702	40.26	ADR	38.3	-40.5	6.39	44.45	54	-9.55	-	-	-	-	360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

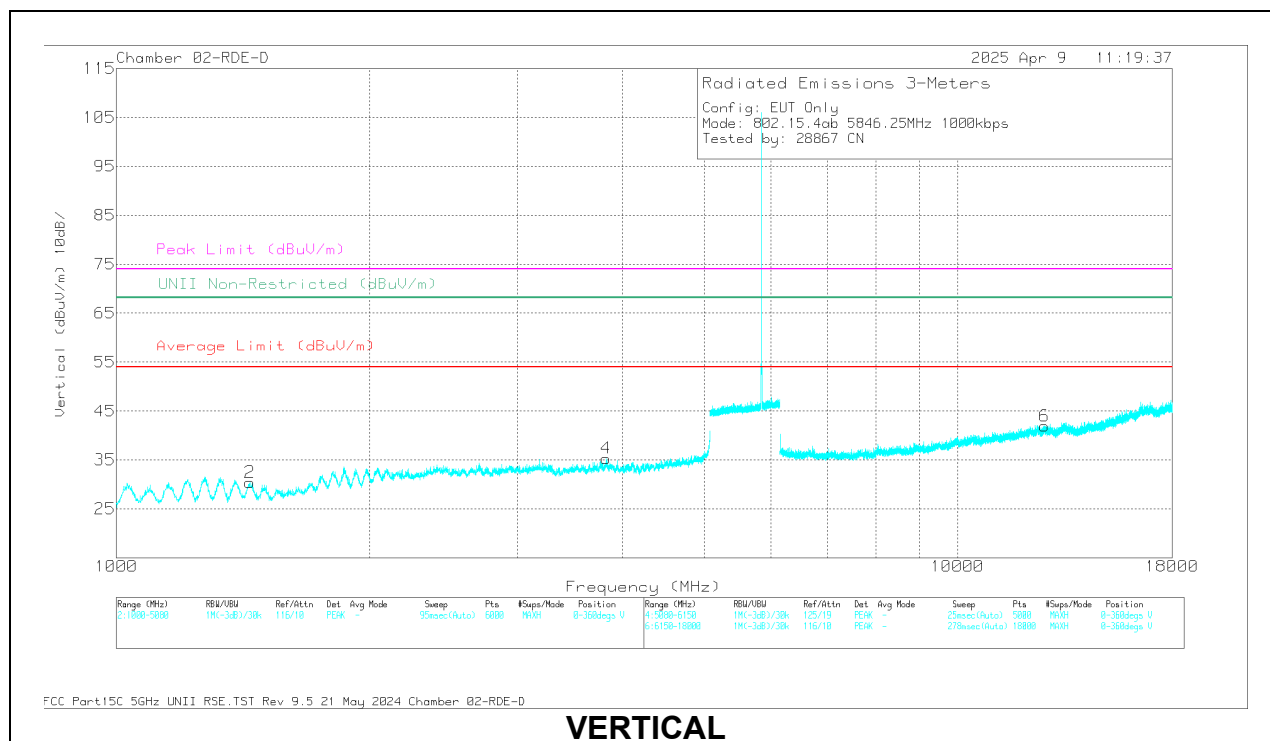
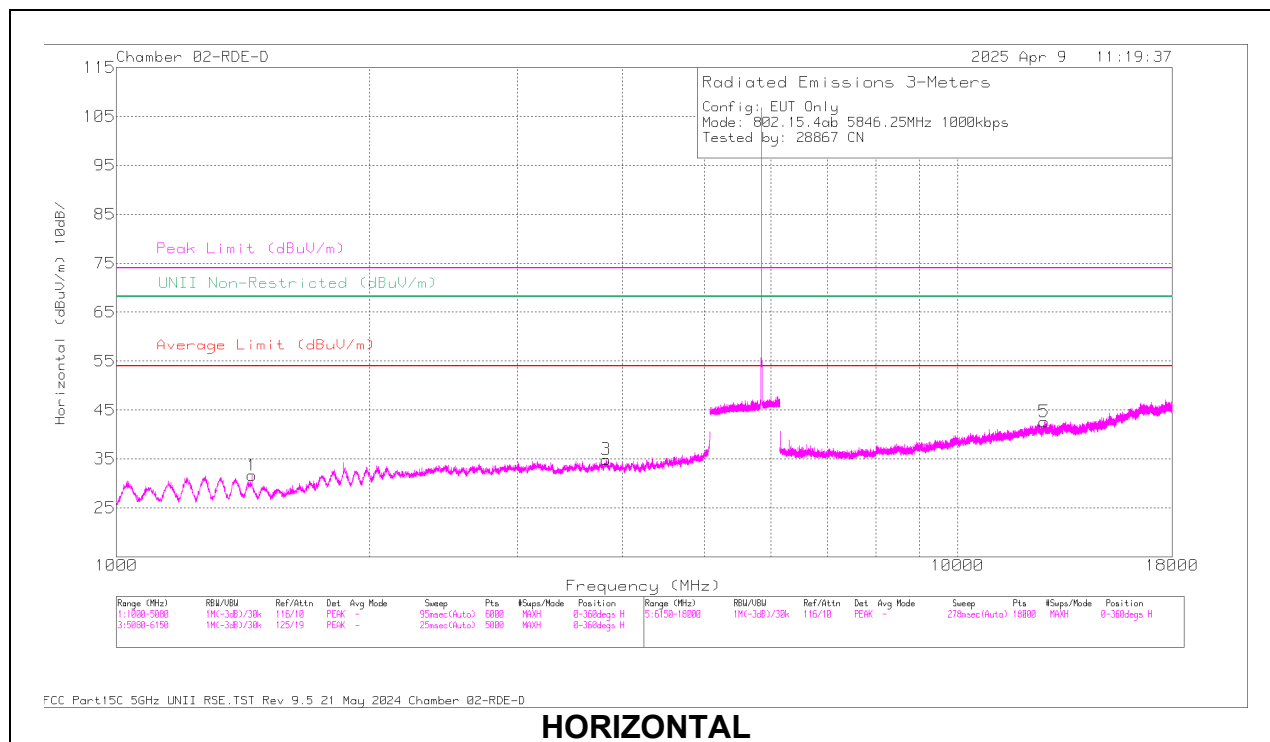
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl/Filtr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1329.711	60.63	PK-U	28.8	-48.9	0	40.53	-	-	74	-33.47	-	-	245	238	V
	* 1330.225	48.84	ADR	28.8	-48.9	6.39	35.13	54	-18.87	-	-	-	-	245	238	V
2	* 1330.611	61.21	PK-U	28.8	-48.9	0	41.11	-	-	74	-32.89	-	-	132	248	H
	* 1330.131	48.83	ADR	28.8	-48.9	6.39	35.12	54	-18.88	-	-	-	-	132	248	H
3	* 3935.962	55.35	PK-U	33.4	-45.7	0	43.05	-	-	74	-30.95	-	-	112	226	H
	* 3939.982	43.84	ADR	33.4	-45.6	6.39	38.03	54	-15.97	-	-	-	-	112	226	H
4	* 3931.449	55.63	PK-U	33.4	-45.5	0	43.53	-	-	74	-30.47	-	-	166	138	V
	* 3933.762	43.68	ADR	33.4	-45.7	6.39	37.77	54	-16.23	-	-	-	-	166	138	V
5	* 12473.671	52.04	PK-U	39	-39.5	0	51.54	-	-	74	-22.46	-	-	267	145	H
	* 12472.164	40.12	ADR	39	-39.7	6.39	45.81	54	-8.19	-	-	-	-	267	145	H
6	* 12457.679	51.93	PK-U	39	-39.4	0	51.53	-	-	74	-22.47	-	-	312	220	V
	* 12445.808	40.08	ADR	39	-39.2	6.39	46.27	54	-7.73	-	-	-	-	312	220	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl/Filtr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1444.025	60.48	PK-U	28.1	-48.6	0	39.98	-	-	74	-34.02	-	-	311	214	H
	* 1442.045	48.6	ADR	28.2	-48.6	6.39	34.59	54	-19.41	-	-	-	-	311	214	H
2	1434.49	60.48	PK-U	28.2	-48.6	0	40.08	-	-	-	-	68.2	-28.12	274	178	V
3	* 3823.319	56.63	PK-U	33.5	-45.6	0	44.53	-	-	74	-29.47	-	-	246	182	H
	* 3815.512	44.34	ADR	33.5	-45.7	6.39	38.53	54	-15.47	-	-	-	-	246	182	H
4	* 3818.619	56.44	PK-U	33.5	-45.5	0	44.44	-	-	74	-29.56	-	-	58	168	V
	* 3818.839	44.33	ADR	33.5	-45.5	6.39	38.72	54	-15.28	-	-	-	-	58	168	V
5	* 12679.879	51.99	PK-U	39.2	-39.4	0	51.79	-	-	74	-22.21	-	-	135	234	H
	* 12683.19	39.93	ADR	39.2	-39.3	6.39	46.22	54	-7.78	-	-	-	-	135	234	H
6	* 12665.354	52.2	PK-U	39.2	-39.5	0	51.9	-	-	74	-22.1	-	-	326	268	V
	* 12664.417	40.05	ADR	39.2	-39.8	6.39	45.84	54	-8.16	-	-	-	-	326	268	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

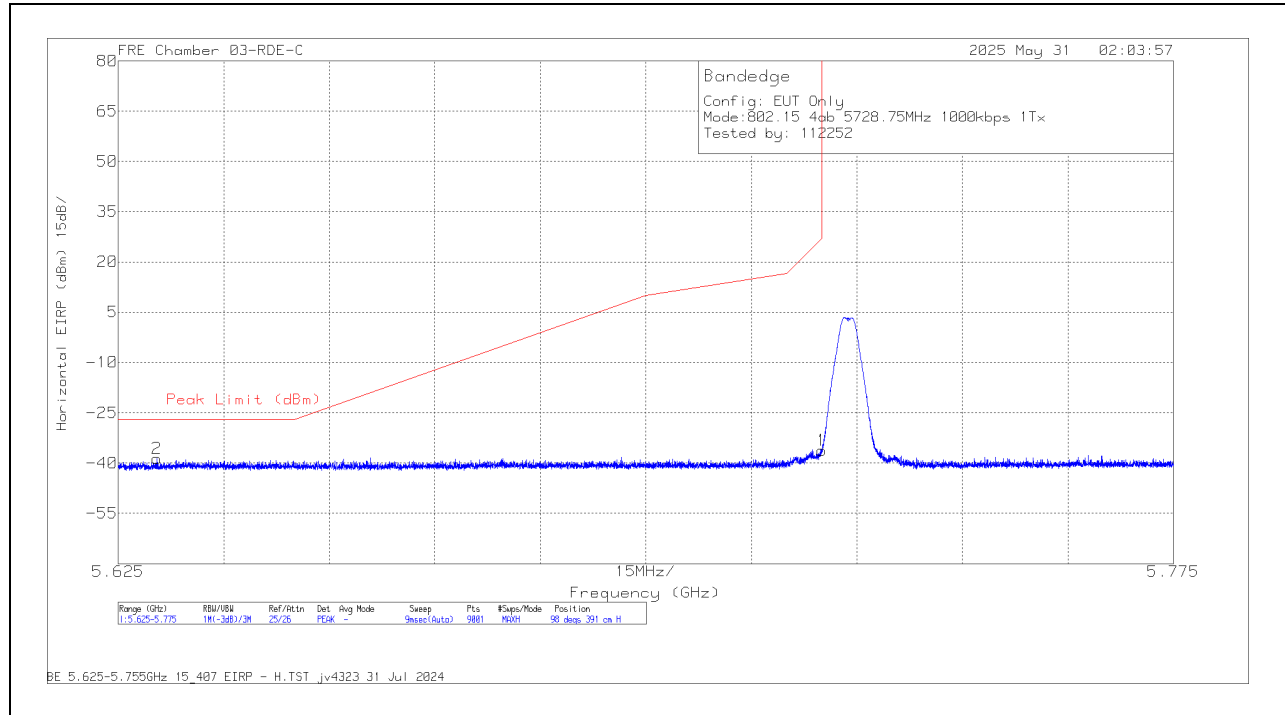
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.7. ANT 5, 1000Kbps, LOW POWER BAND EDGE IN THE 5.8 GHz BAND

BANDEDGE (LOW CHANNEL)

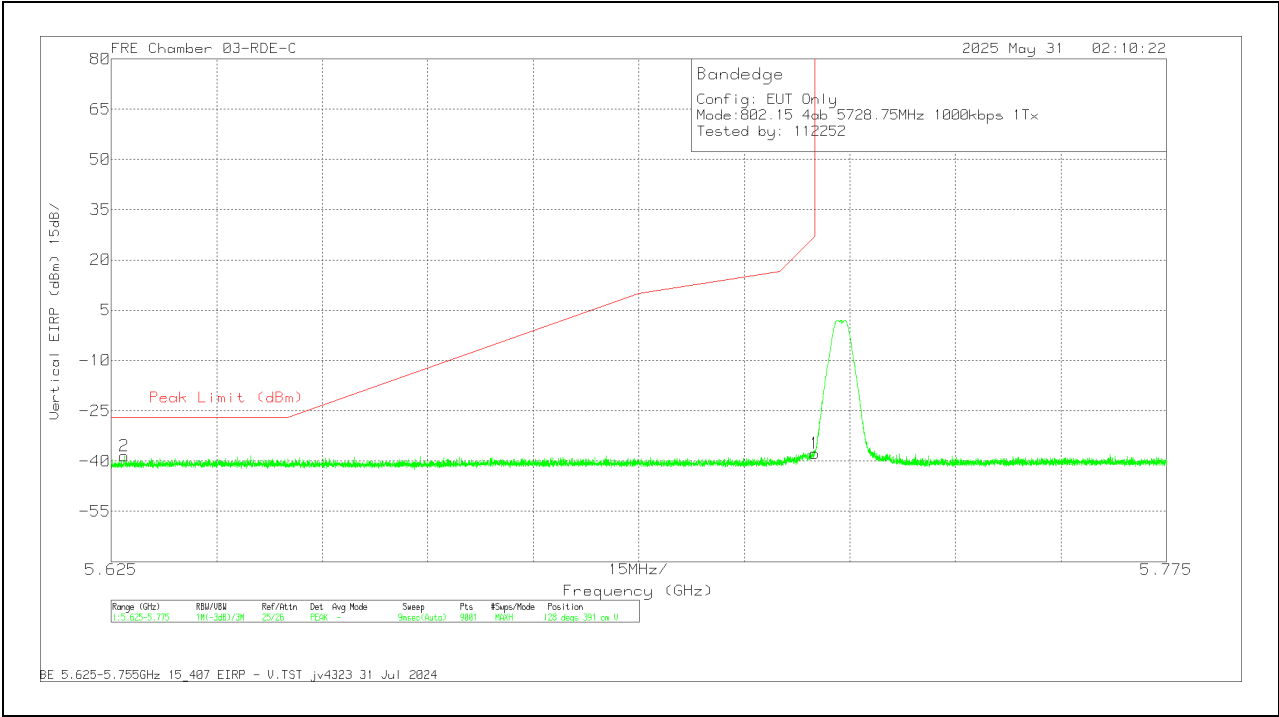
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-46.15	Pk	34.9	11.8	0	-36.7	-36.15	27	-63.15	98	391	H
2	5.630483	-48.17	Pk	34.8	11.8	0	-37	-38.57	-27	-11.57	98	391	H

Pk - Peak detector

VERTICAL RESULT

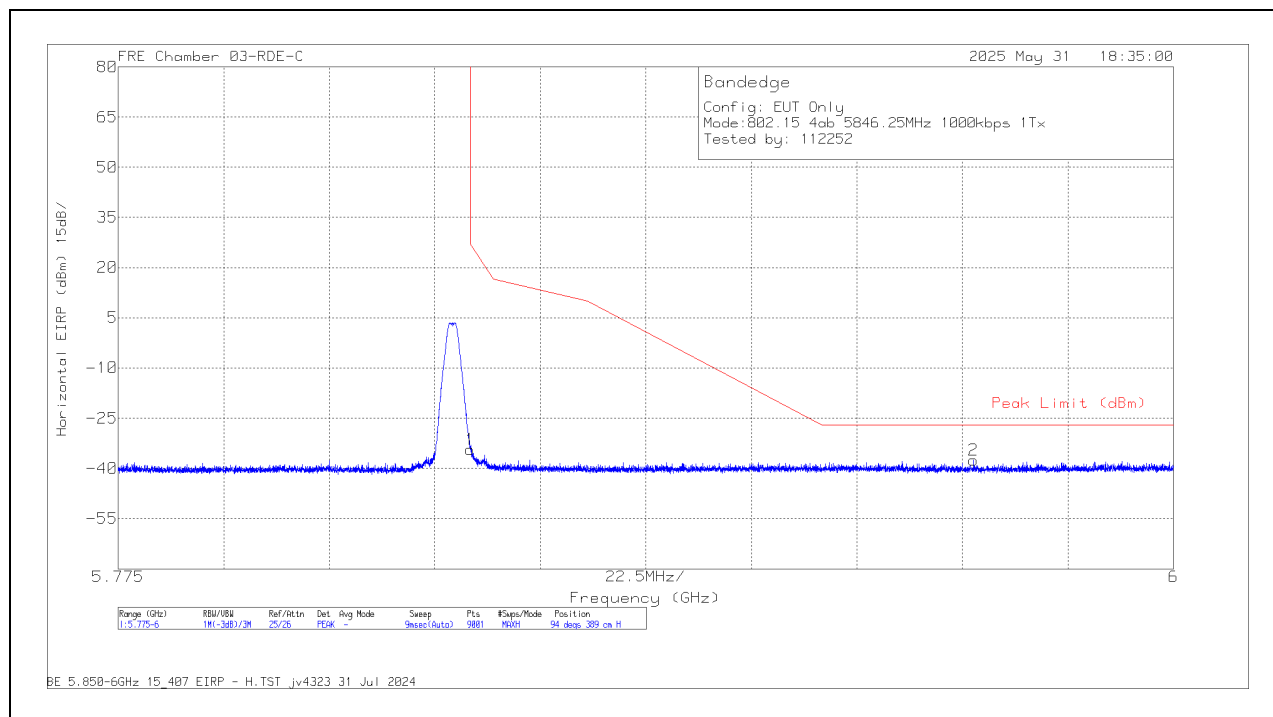


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-47.74	PK	34.9	11.8	0	-36.7	-37.74	27	-64.74	128	391	V
2	5.626833	-48.03	PK	34.8	11.8	0	-37	-38.43	-27	-11.43	128	391	V

PK - Peak detector

BANDEGE (HIGH CHANNEL)

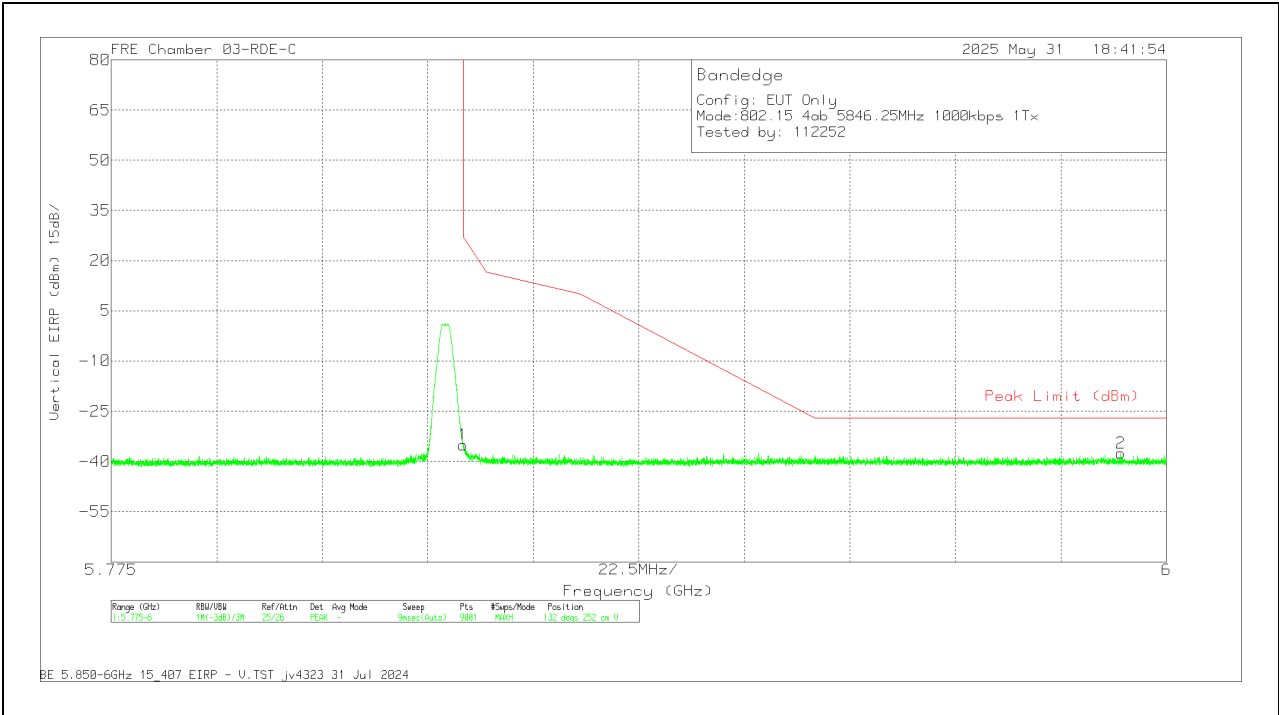
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-45	Pk	35.1	11.8	0	-36.2	-34.3	27	-61.3	94	389	H
2	5.9574	-48.34	Pk	35.2	11.8	0	-36.24	-37.58	-27	-10.58	94	389	H

Pk - Peak detector

VERTICAL RESULT

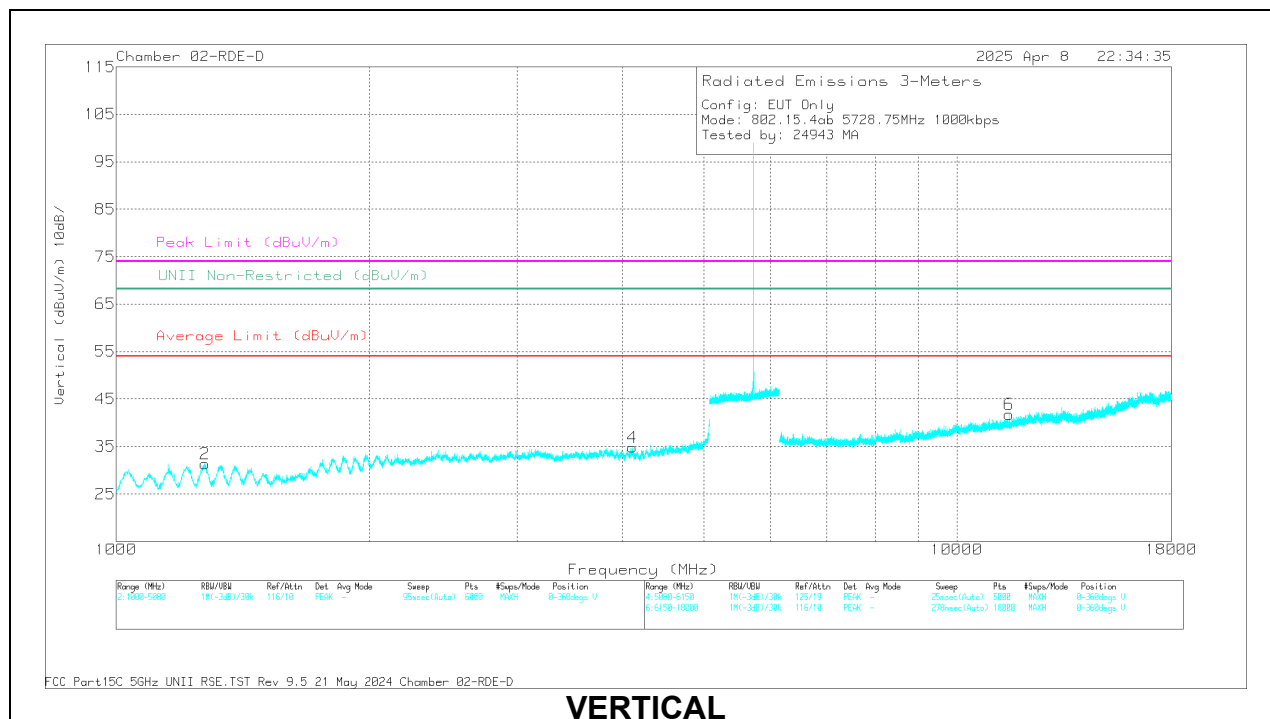
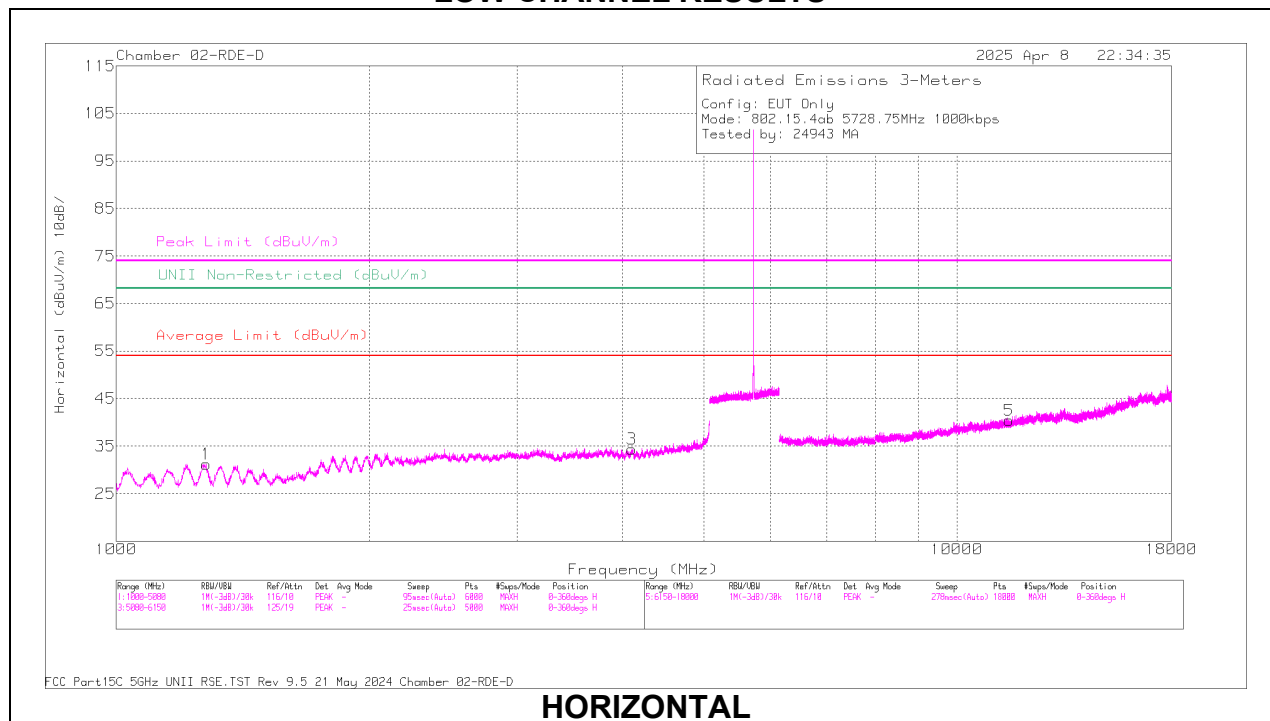


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-45.83	Pk	35.1	11.8	0	-36.2	-35.13	27	-62.13	132	252	V
2	5.9903	-48.55	Pk	35.3	11.8	0	-36.1	-37.55	-27	-10.55	132	252	V

Pk - Peak detector

10.1.8. ANT 5, 1000Kbps LOW POWER HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

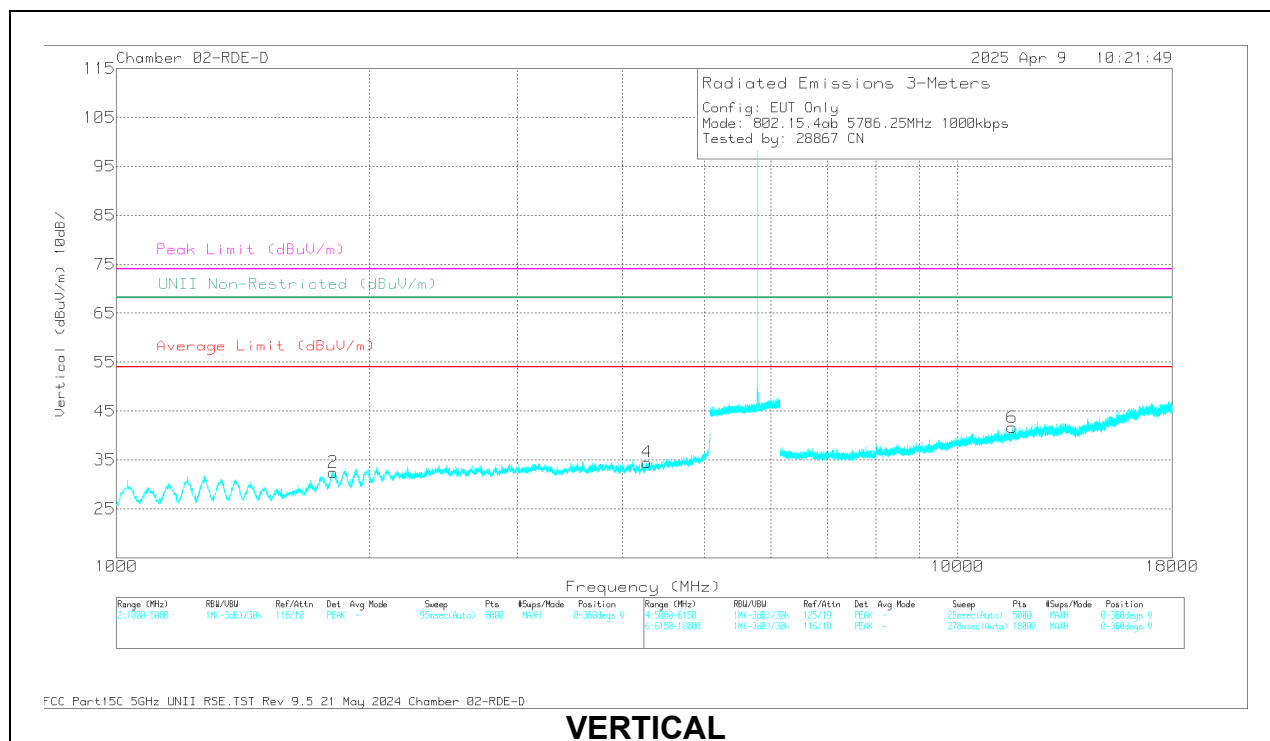
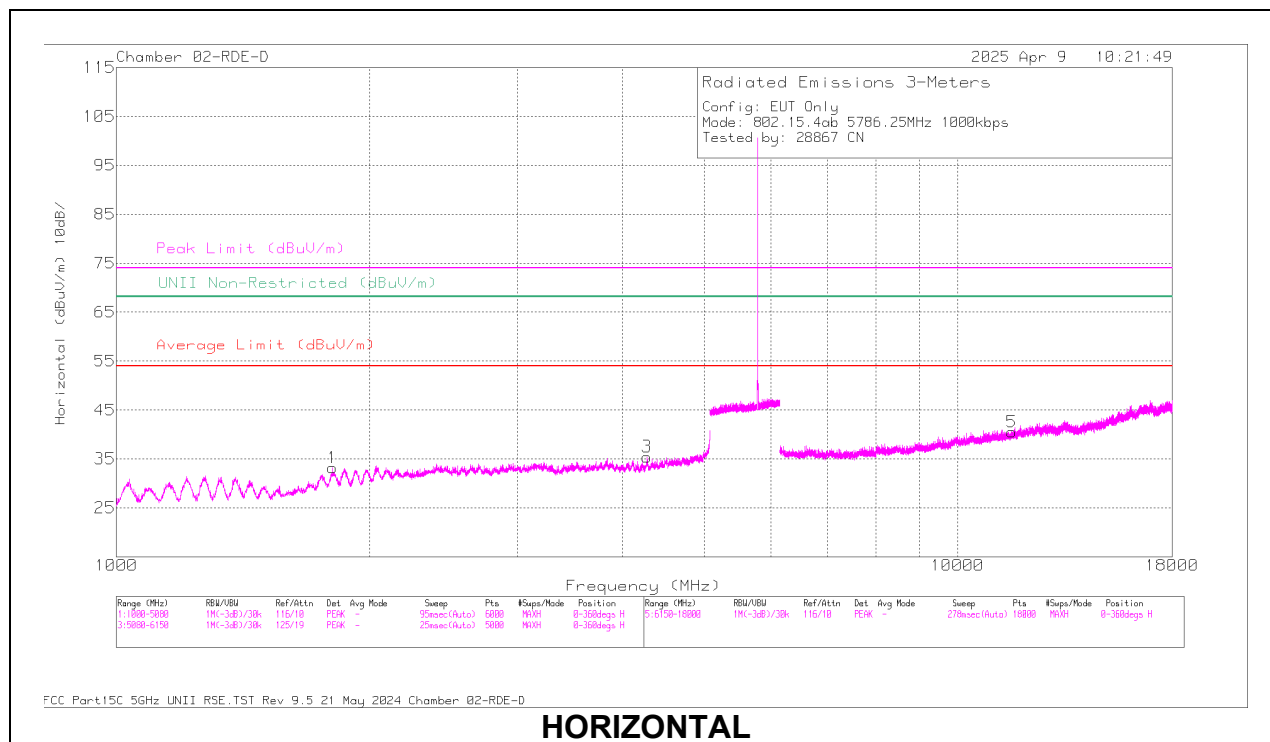
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl/Filtr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1267.083	60.16	PK-U	29.1	-48.9	0	40.36	-	-	74	-33.64	-	-	360	101	V
	* 1271.829	48.81	ADR	29.1	-49	6.39	35.3	54	-18.7	-	-	-	-	360	101	V
2	* 1277.643	60.34	PK-U	29.2	-48.8	0	40.74	-	-	74	-33.26	-	-	360	199	H
	* 1271.81	48.78	ADR	29.1	-49	6.39	35.27	54	-18.73	-	-	-	-	360	199	H
3	* 4102.24	56.65	PK-U	33.4	-46.2	0	43.85	-	-	74	-30.15	-	-	360	101	H
	* 4102.606	44.89	ADR	33.4	-46.2	6.39	38.48	54	-15.52	-	-	-	-	360	101	H
4	* 4101.494	56.8	PK-U	33.4	-46.2	0	44	-	-	74	-30	-	-	360	101	V
	* 4101.487	44.94	ADR	33.4	-46.2	6.39	38.53	54	-15.47	-	-	-	-	360	101	V
6	* 11529.716	52.45	PK-U	38.2	-40.3	0	50.35	-	-	74	-23.65	-	-	360	200	V
	* 11535.911	40.58	ADR	38.2	-40.3	6.39	44.87	54	-9.13	-	-	-	-	360	200	V
5	* 11522.883	52.55	PK-U	38.2	-40.2	0	50.55	-	-	74	-23.45	-	-	360	199	H
	* 11544.105	40.38	ADR	38.2	-40.2	6.39	44.77	54	-9.23	-	-	-	-	360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

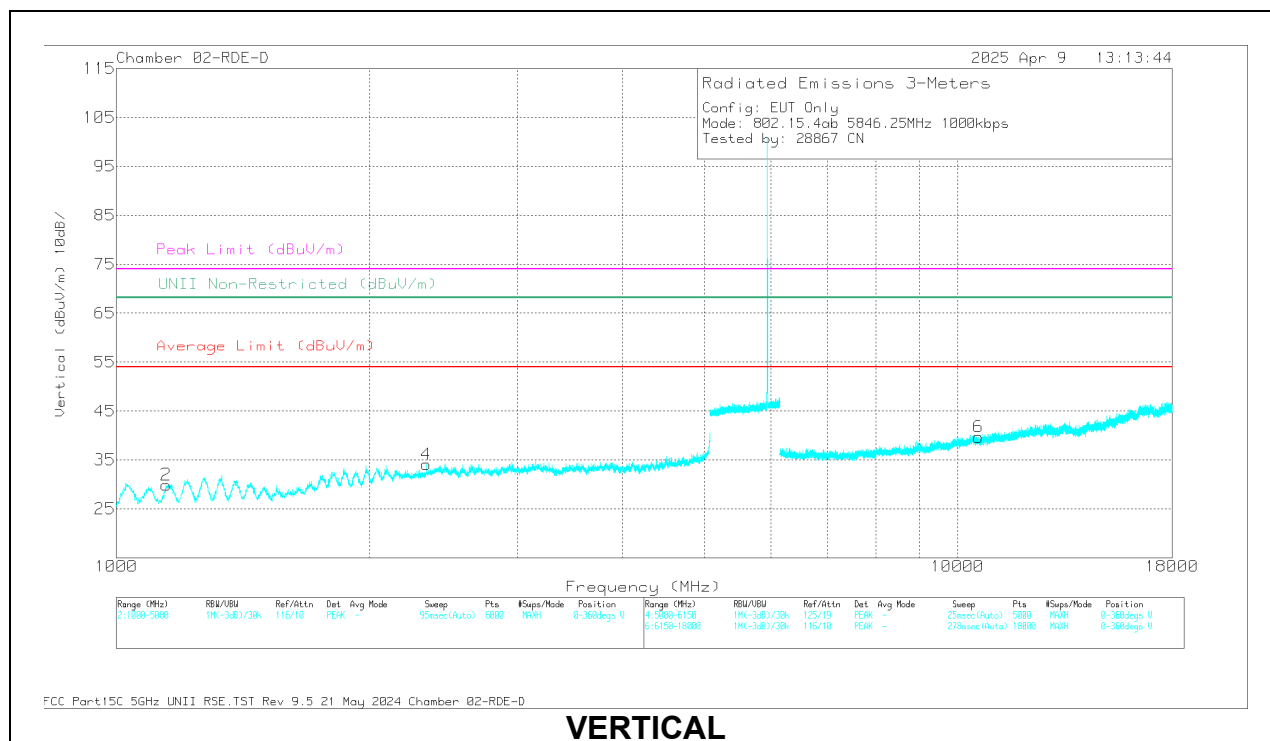
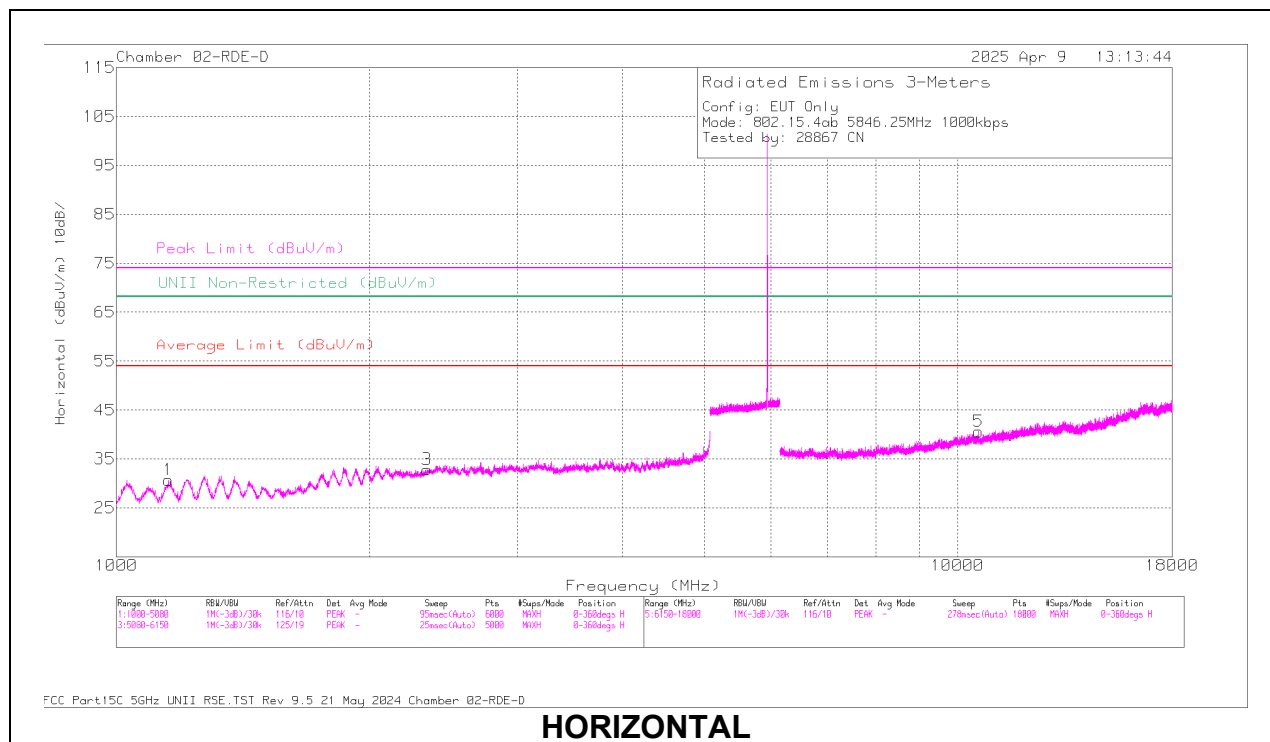
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl/Fitr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1809.058	60.33	PK-U	30.5	-48.5	0	42.33	-	-	-	-	68.2	-25.87	360	161	H
2	1805.878	60.16	PK-U	30.4	-48.5	0	42.06	-	-	-	-	68.2	-26.14	288	127	V
3	* 4279.748	57.43	PK-U	33.6	-46.4	0	44.63	-	-	74	-29.37	-	-	351	244	H
3	* 4276.128	44.94	ADR	33.6	-46.3	6.39	38.63	54	-15.37	-	-	-	-	351	244	H
4	* 4283.794	56.56	PK-U	33.6	-46.2	0	43.96	-	-	74	-30.04	-	-	274	148	V
4	* 4274.981	44.89	ADR	33.6	-46.3	6.39	38.58	54	-15.42	-	-	-	-	274	148	V
5	* 11618.517	52.61	PK-U	38.3	-40.3	0	50.61	-	-	74	-23.39	-	-	253	207	H
5	* 11590.273	40.16	ADR	38.3	-40.4	6.39	44.45	54	-9.55	-	-	-	-	253	207	H
6	* 11613.567	52.55	PK-U	38.3	-40.3	0	50.55	-	-	74	-23.45	-	-	313	135	V
6	* 11597.282	40.13	ADR	38.3	-40.3	6.39	44.52	54	-9.48	-	-	-	-	313	135	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

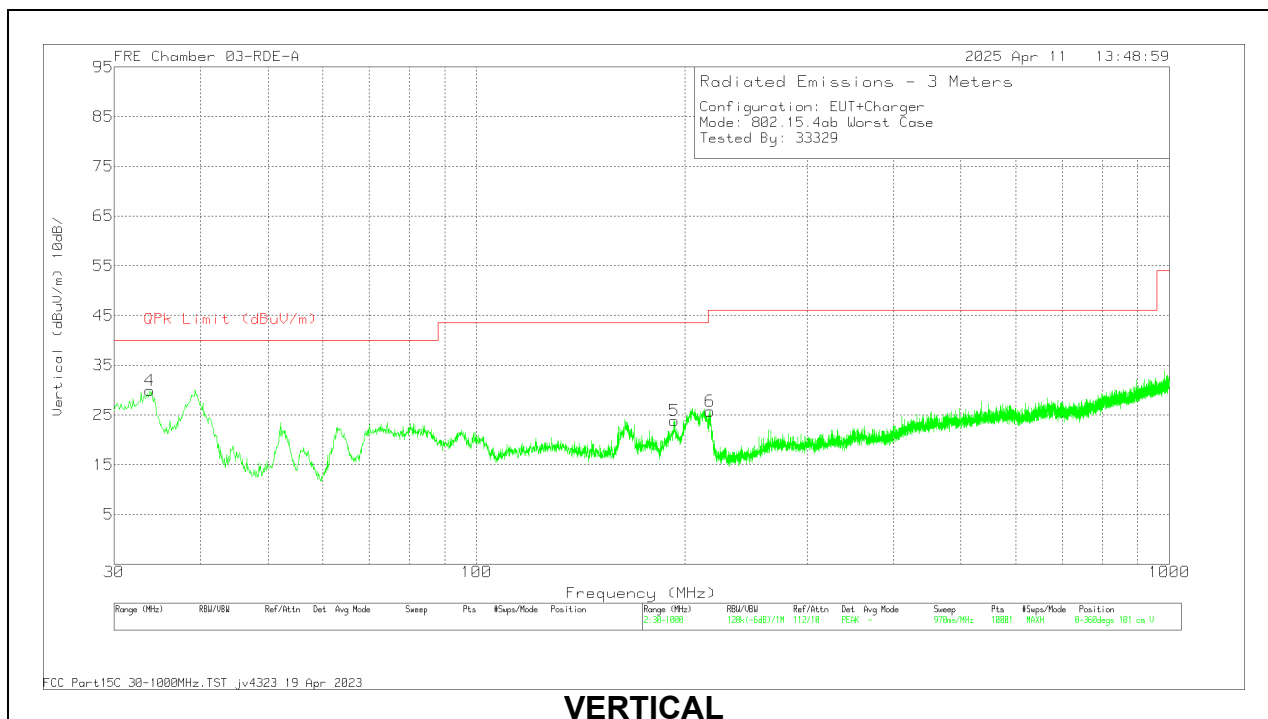
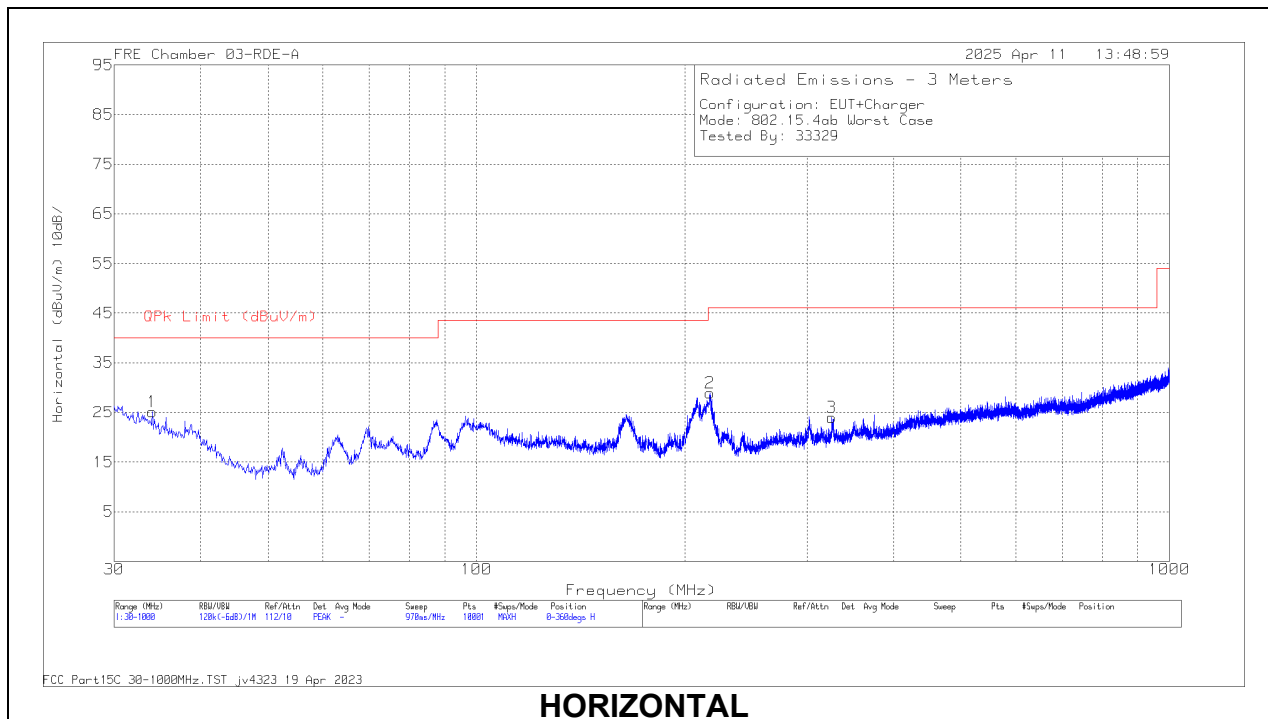
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl/Filtr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1156.169	61.22	PK-U	28	-49	0	40.22	-	-	74	-33.78	-	-	276	196	H
	* 1155.255	49.08	ADR	28	-49	6.39	34.47	54	-19.53	-	-	-	-	276	196	H
2	* 1153.941	60.74	PK-U	28	-49	0	39.74	-	-	74	-34.26	-	-	211	155	V
	* 1155.861	49.04	ADR	28	-48.9	6.39	34.53	54	-19.47	-	-	-	-	211	155	V
3	* 2340.313	59.56	PK-U	32	-48.6	0	42.96	-	-	74	-31.04	-	-	237	212	H
	* 2346.185	47.28	ADR	32	-48.5	6.39	37.17	54	-16.83	-	-	-	-	302	163	V
4	* 2353.672	59.3	PK-U	32	-48.4	0	42.9	-	-	74	-31.1	-	-	302	163	V
	* 2347.386	47.29	ADR	32	-48.5	6.39	37.18	54	-16.82	-	-	-	-	237	212	H
5	10596.491	53.02	PK-U	37.7	-41.3	0	49.42	-	-	-	-	68.2	-18.78	285	342	H
	10572.727	53.07	PK-U	37.7	-41.6	0	49.17	-	-	-	-	68.2	-19.03	192	248	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.2. WORST CASE BELOW 1 GHz

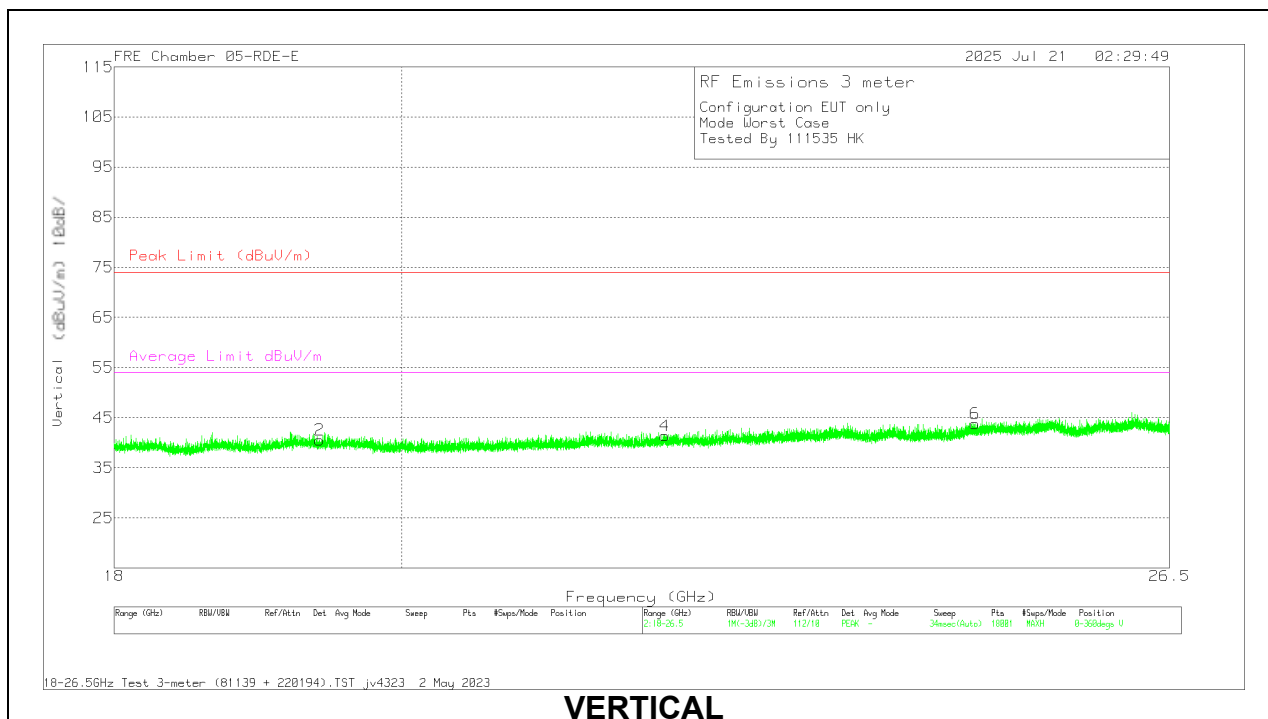
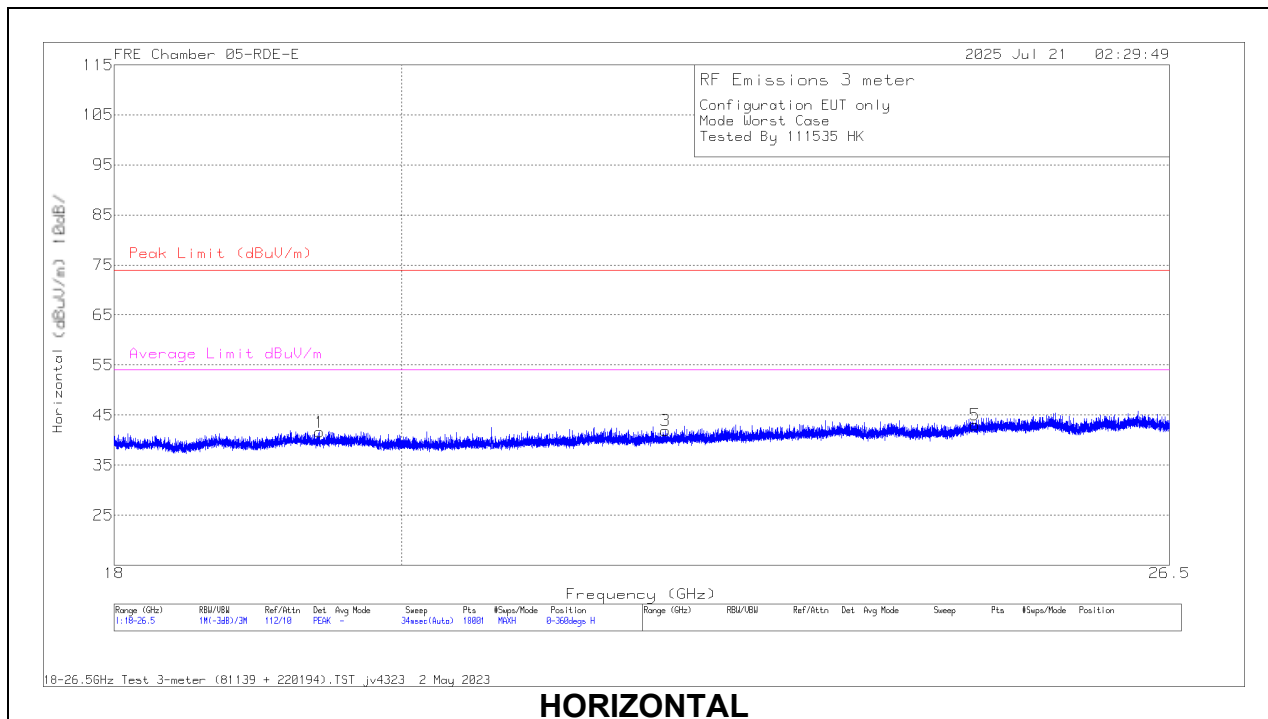


Below 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80813 ACF (dB/m)	CBL AMP (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.898	22.59	Qp	24.1	-31.1	16.29	40	-23.71	181	279	H
2	217.374	37.22	Qp	16.4	-29.5	24.82	46.02	-21.2	209	170	H
3	* 325.877	24.53	Qp	19.8	-29	16.03	46.02	-29.99	339	123	H
4	33.7907	32.56	Qp	24.1	-31	26.36	40	-13.64	180	107	V
5	193.184	26.14	Qp	17.6	-29.4	15.04	43.52	-28.48	346	112	V
6	217.254	29.14	Qp	16.4	-29.5	16.74	46.02	-29.28	172	149	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Qp - Quasi-Peak detector

10.3. WORST CASE 18-26 GHz



18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81139 ACF (dB/m)	CBL/AMP (dB)	CBL (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 19.407082	47.28	PK-U	33	-62.4	24.1	0	41.98	74	-32.02	-	-	2	101	H
	* 19.406185	35.81	ADR	33	-62.4	24.1	6.39	36.9	-	-	54	-17.10	2	101	H
3	* 22.031436	45.58	PK-U	33.5	-62.4	25.8	0	42.48	74	-31.52	-	-	2	101	H
	* 22.030852	34.12	ADR	33.5	-62.4	25.8	6.39	37.41	-	-	54	-16.59	2	101	H
5	24.678086	45.44	PK-U	34.1	-62.7	27.6	0	44.44	74	-29.56	-	-	2	101	H
	24.679629	33.75	ADR	34.1	-62.7	27.6	6.39	39.14	-	-	54	-14.86	2	101	H

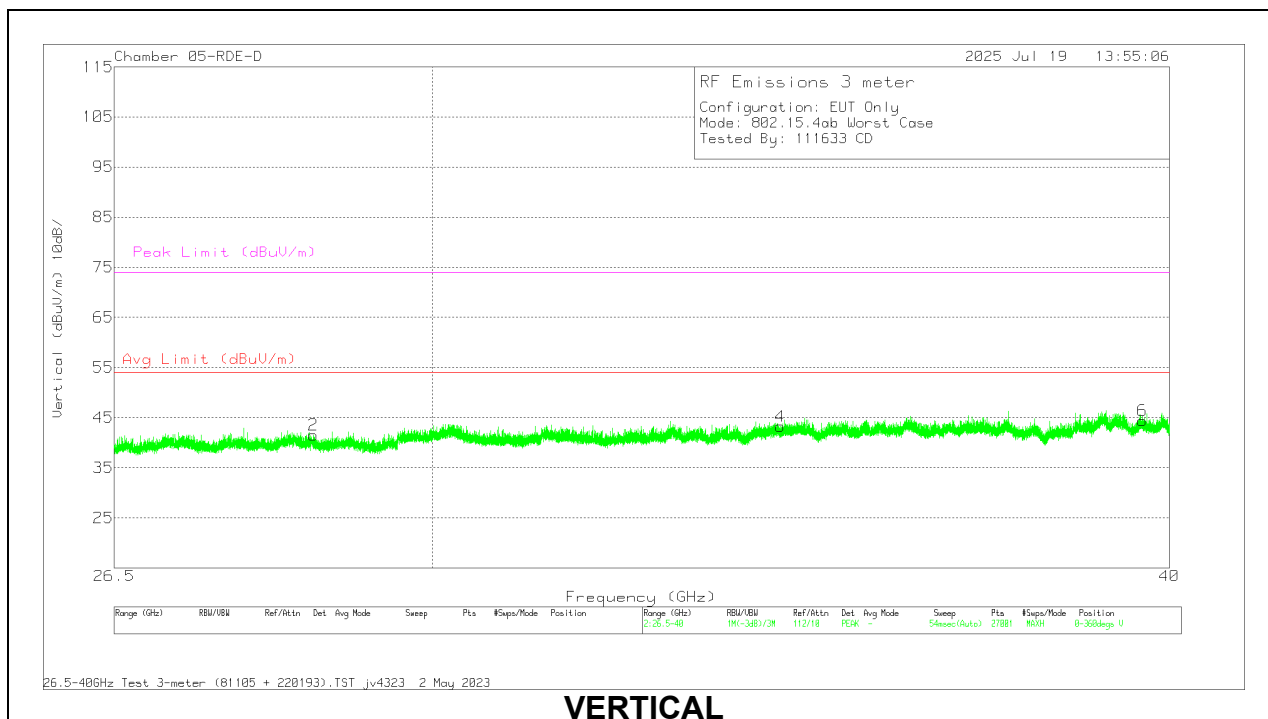
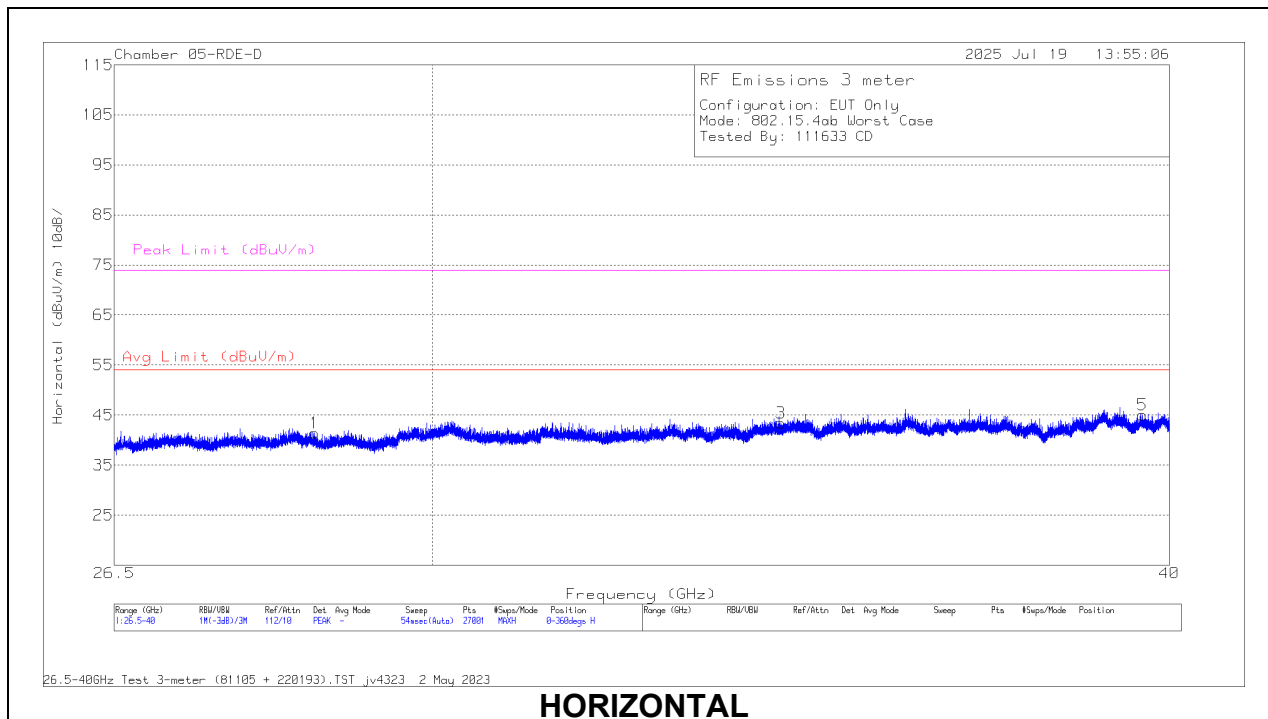
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81139 ACF (dB/m)	CBL/AMP (dB)	CBL (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 19.406147	47	PK-U	33	-62.4	24.1	0	41.7	74	-32.3	-	-	2	199	V
	* 19.408677	35.93	ADR	33	-62.4	24.1	6.39	37.02	-	-	54	-16.98	2	199	V
4	* 22.027518	46.1	PK-U	33.5	-62.4	25.8	0	43	74	-31	-	-	2	101	V
	* 22.027872	34.21	ADR	33.5	-62.4	25.8	6.39	37.5	-	-	54	-16.50	2	101	V
6	24.67867	45.44	PK-U	34.1	-62.7	27.6	0	44.44	74	-29.56	-	-	2	199	V
	24.678177	33.68	ADR	34.1	-62.7	27.6	6.39	39.07	-	-	54	-14.93	2	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.4. WORST CASE 26-40 GHz



26 – 40GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81105 ACF (dB/m)	CBL/AMP	CBL AMP (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	28.652243	54.82	PK-U	36	-64.7	16.5	0	42.62	-	-	74	-31.38	301	148	H
	28.653542	42.55	ADR	36	-64.7	16.5	6.39	36.74	54	-17.26	-	-	301	148	H
2	28.637251	54.08	PK-U	36.1	-64.6	16.6	0	42.18	-	-	74	-31.82	6	134	V
	28.639882	42.38	ADR	36.1	-64.6	16.6	6.39	36.87	54	-17.13	-	-	6	134	V
3	34.369994	54.59	PK-U	37.1	-64.9	19.1	0	45.89	-	-	74	-28.11	90	225	H
	34.371051	42.25	ADR	37.1	-65	19.2	6.39	39.94	54	-14.06	-	-	90	225	H
4	34.36031	53.77	PK-U	37.1	-64.9	19.1	0	45.07	-	-	74	-28.93	309	280	V
	34.361064	42.19	ADR	37.1	-64.9	19.1	6.39	39.88	54	-14.12	-	-	309	280	V
5	39.583317	53.1	PK-U	38.5	-64.7	20.1	0	47	-	-	74	-27.00	241	352	H
	39.582854	40.54	ADR	38.5	-64.7	20.1	6.39	40.83	54	-13.17	-	-	241	352	H
6	39.580833	53.23	PK-U	38.5	-64.7	20.1	0	47.13	-	-	74	-26.87	3	183	V
	39.581016	40.58	ADR	38.5	-64.7	20.1	6.39	40.87	54	-13.13	-	-	3	183	V

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

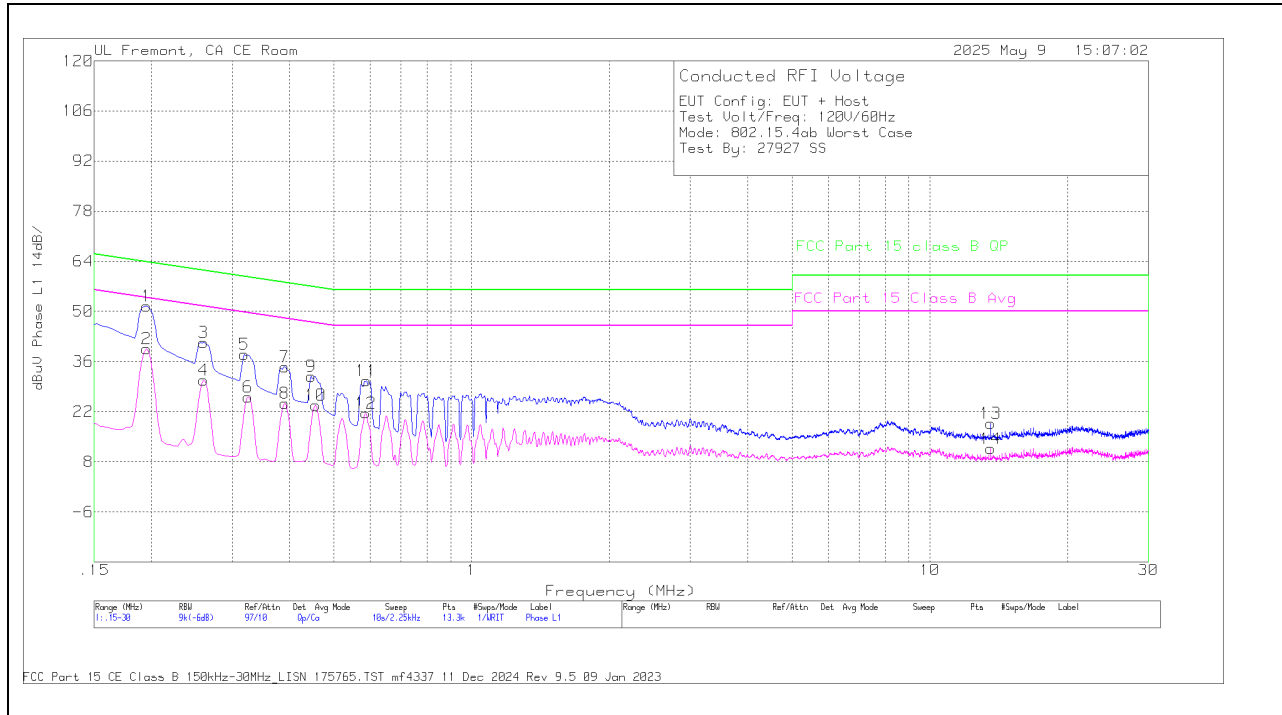
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

11.1. AC Power Line WITH LAPTOP

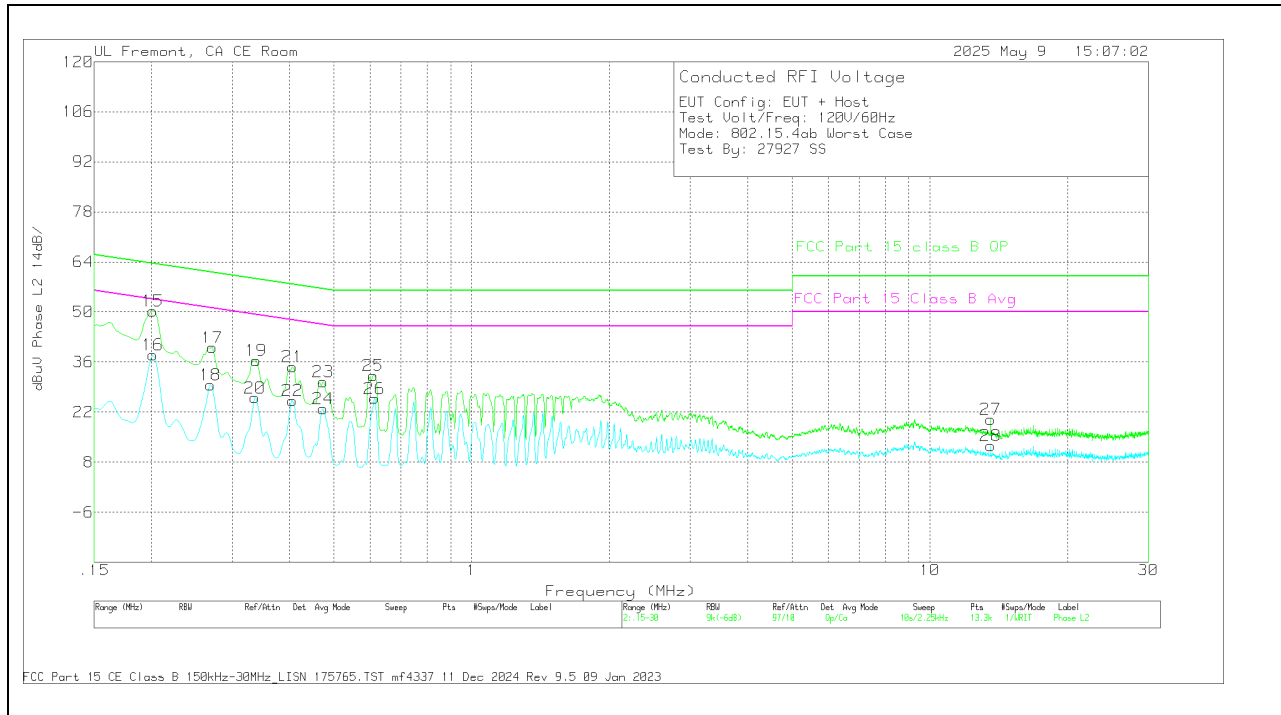
LINE 1 RESULTS



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	DCCF (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.195	14.63	Ca	.1	.1	8.4	10	6.39	39.62	53.82	-14.2	-	-
4	.2603	6.38	Ca	-.1	0	8.2	10	6.39	30.87	51.42	-20.55	-	-
6	.3255	1.73	Ca	-.2	0	8.2	10	6.39	26.12	49.57	-23.45	-	-
8	.3908	.2	Ca	-.5	0	8.3	10	6.39	24.39	48.05	-23.66	-	-
10	.456	-1.64	Ca	.2	0	8.8	10	6.39	23.75	46.77	-23.02	-	-
12	.5865	-2.69	Ca	-.2	0	8.1	10	6.39	21.6	46	-24.4	-	-
14	13.56	-13.26	Ca	.2	.1	8.2	10	6.39	11.63	50	-38.37	-	-
1	.195	26.47	Qp	.1	.1	8.4	10	6.39	51.46	-	-	63.82	-12.36
3	.2603	16.86	Qp	-.1	0	8.2	10	6.39	41.35	-	-	61.42	-20.07
5	.3188	13.54	Qp	-.2	0	8.2	10	6.39	37.93	-	-	59.74	-21.81
7	.3908	10.34	Qp	-.5	0	8.3	10	6.39	34.53	-	-	58.05	-23.52
9	.447	6.37	Qp	.2	0	8.9	10	6.39	31.86	-	-	56.93	-25.07
11	.5888	6.35	Qp	-.2	0	8.1	10	6.39	30.64	-	-	56	-25.36
13	13.56	-6.12	Qp	.2	.1	8.2	10	6.39	18.77	-	-	60	-41.23

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS

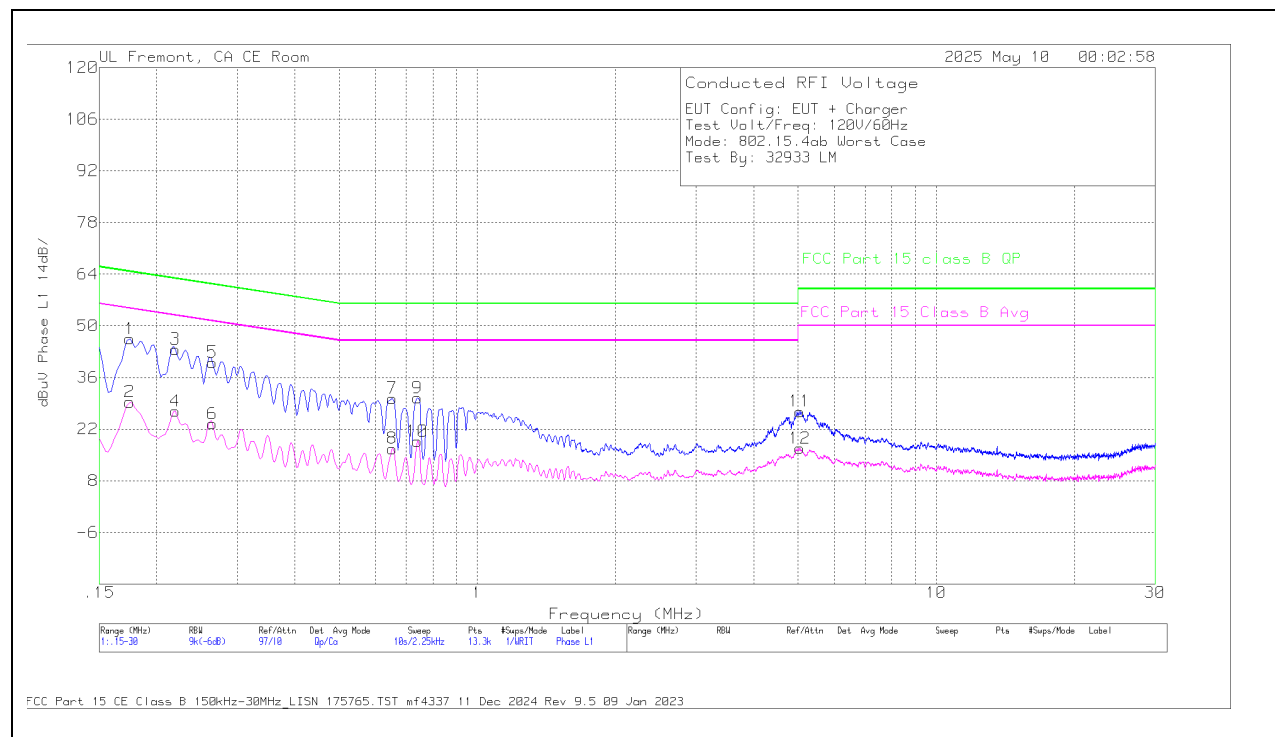


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	DCCF (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
16	2018	13.08	Ca	.1	0	8.4	10	6.39	37.97	53.54	-15.57	-	-
18	2693	5.24	Ca	-.1	0	8.1	10	6.39	29.63	51.14	-21.51	-	-
20	3368	1.6	Ca	-.3	0	8.3	10	6.39	25.99	49.28	-23.29	-	-
22	4065	.85	Ca	-.4	0	8.4	10	6.39	25.24	47.72	-22.48	-	-
24	.474	-1.95	Ca	.1	0	8.4	10	6.39	22.94	46.44	-23.5	-	-
26	6135	1.12	Ca	0	0	8.3	10	6.39	25.81	46	-20.19	-	-
28	13.56	-12.29	Ca	.2	.1	8.2	10	6.39	12.6	50	-37.4	-	-
15	2018	25.33	Qp	.1	0	8.4	10	6.39	50.22	-	-	63.54	-13.32
17	2715	15.63	Qp	-.1	0	8.1	10	6.39	40.02	-	-	61.07	-21.05
19	.339	11.99	Qp	-.3	0	8.3	10	6.39	36.38	-	-	59.23	-22.85
21	4065	10.21	Qp	-.4	0	8.4	10	6.39	34.6	-	-	57.72	-23.12
23	.474	5.5	Qp	.1	0	8.4	10	6.39	30.39	-	-	56.44	-26.05
25	.609	7.77	Qp	-.1	0	8.2	10	6.39	32.26	-	-	56	-23.74
27	13.56	-4.97	Qp	.2	.1	8.2	10	6.39	19.92	-	-	60	-40.08

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.2. AC Power Line WITH AC/DC Adapter

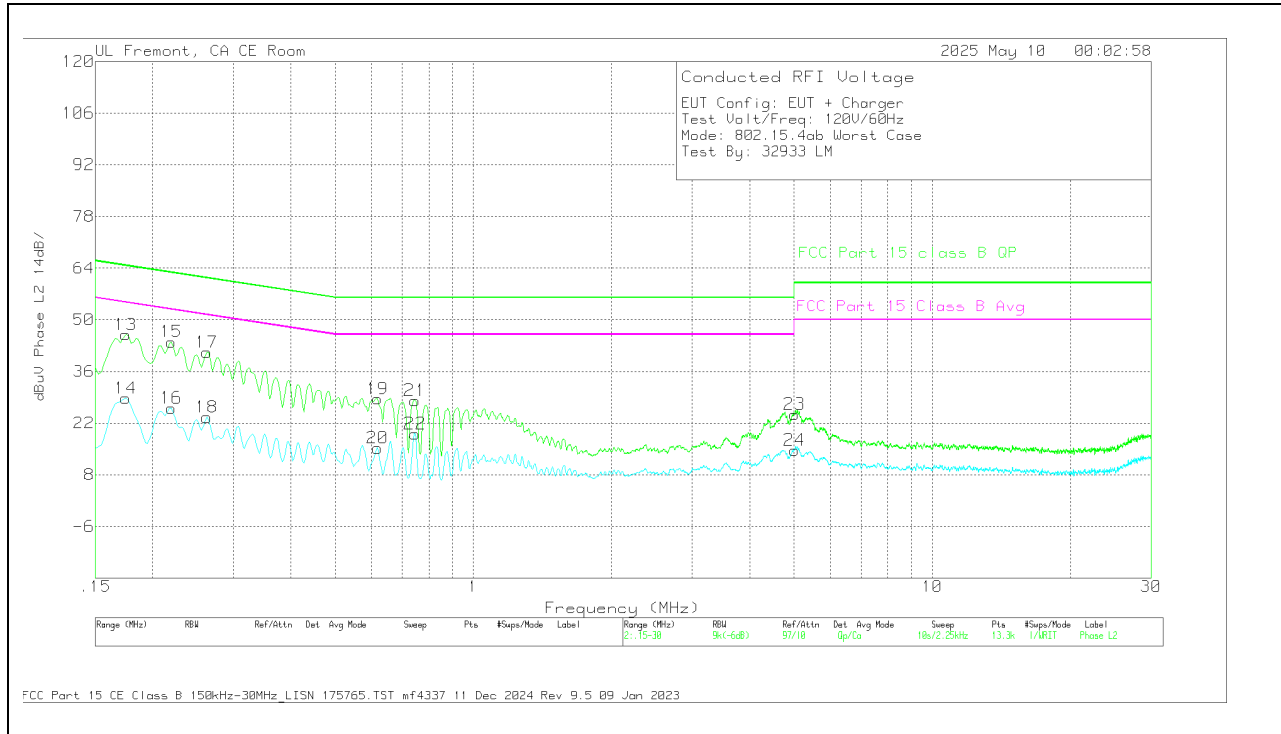
LINE 1 RESULTS



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1748	10.45	Ca	.3	.1	8.5	10	29.35	54.73	-25.38	-	-
4	.2198	8.53	Ca	0	0	8.3	10	26.83	52.83	-26	-	-
6	.2648	5.46	Ca	-.1	0	8.1	10	23.46	51.28	-27.82	-	-
8	.6518	-1.79	Ca	.1	0	8.4	10	16.71	46	-29.29	-	-
10	.7395	.07	Ca	.1	0	8.5	10	18.67	46	-27.33	-	-
12	5.0415	-1.69	Ca	.2	0	8.3	10	16.81	50	-33.19	-	-
1	.1748	27.54	Qp	.3	.1	8.5	10	46.44	-	-	64.73	-18.29
3	.2198	25.35	Qp	0	0	8.3	10	43.65	-	-	62.83	-19.18
5	.2648	22.03	Qp	-.1	0	8.1	10	40.03	-	-	61.28	-21.25
7	.6518	11.84	Qp	.1	0	8.4	10	30.34	-	-	56	-25.66
9	.7395	11.82	Qp	.1	0	8.5	10	30.42	-	-	56	-25.58
11	5.0415	8.28	Qp	.2	0	8.3	10	26.78	-	-	60	-33.22

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
14	.1748	9.94	Ca	.3	0	8.5	10	28.74	54.73	-25.99	-	-
16	.2198	7.78	Ca	0	0	8.3	10	26.08	52.83	-26.75	-	-
18	.2625	5.47	Ca	-.1	0	8.2	10	23.57	51.35	-27.78	-	-
20	.618	-3.09	Ca	0	0	8.3	10	15.21	46	-30.79	-	-
22	.7463	.39	Ca	.1	0	8.6	10	19.09	46	-26.91	-	-
24	5.01	-3.69	Ca	0	0	8.3	10	14.61	50	-35.39	-	-
13	.1748	27.17	Qp	.3	0	8.5	10	45.97	-	-	64.73	-18.76
15	.2198	25.7	Qp	0	0	8.3	10	44	-	-	62.83	-18.83
17	.2625	23.1	Qp	-.1	0	8.2	10	41.2	-	-	61.35	-20.15
19	.618	10.25	Qp	0	0	8.3	10	28.55	-	-	56	-27.45
21	.7463	9.38	Qp	.1	0	8.6	10	28.08	-	-	56	-27.92
23	5.01	6.06	Qp	0	0	8.3	10	24.36	-	-	60	-35.64

Qp - Quasi-Peak detector
Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 15496277-EP1V1 FCC IC for setup photos.

END OF TEST REPORT