

TEST REPORT

Report Number: 15496282-E18V2

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

Model : A3260 (Parent Model)
A3516, A3517, A3518 (Variant Models)

FCC ID : BCG-E8948A (Parent Model)
BCG-E8954A, BCG-E8955A, BCG-E8956A (Variant Models)

IC : 579C-E8948A (Parent Model)
579C-E8954A, 579C-E8955A, 579C-E8956A (Variant Models)

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
ISED RSS-210 ISSUE 11
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:
July 07, 2025

Prepared by:
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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-6-27	Initial issue	Rolly Alegre
V2	2025-7-07	Address TCB Questions	Rolly Alegre

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1. ATTESTATION OF TEST RESULTS

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

EUT DESCRIPTION: SMARTPHONE

MODEL: A3260 (Parent Model)
A3516, A3517, A3518 (Variant Models)

BRAND: APPLE

SERIAL NUMBER: PPXV92F75K, FJQX9Q6LF0(Terminated unit)

SAMPLE RECEIPT DATE: 2025/04/16, 2025/06/11(Terminated unit)

DATE TESTED: 2025/06/03 to 2025/06/18

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Complies
ISED RSS-210 Issue 11, Annex B	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 is capable of demonstrating 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 taken into account unless noted otherwise.

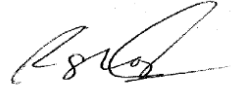
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Approved & Released For
UL Verification Services Inc. By:



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UL Verification Services Inc.

Prepared By:



Rolly Alegre
Laboratory Engineer
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2. TEST METHODOLOGY

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

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15
- ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- KDB 414788 D01 Radiated Test Site v01r01
- RSS-GEN Issue 5 + A1 + A2
- RSS-210 Issue 11

3. 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			

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. 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.

4.2. 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 taken into account when stating conformity with a specified requirement.).

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	U _{Lab}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.2%
Temperature	±0.57 %
Relative Humidity	3.39 %
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

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

4.4. 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.

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, 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.

5.2. SOFTWARE AND FIRMWARE

The EUT firmware and software installed during testing was Luck23A256.

5.3. MAXIMUM E-FIELD STRENGTH

The transmitter has a maximum peak radiated E-field strength as follows:

Antenna	Frequency Range (MHz)	Mode	Kbps	E Field at 30m distance (dBuV/m)
Primary	13.56	Type A	Reader	31.72
			CE	31.42
			Tag	31.63
Secondary	13.56	Type A	Reader	4.98
			Tag	3.3

5.4. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT was investigated under three orthogonal orientations X (Flatbed), Y (Landscape), and Z (Portrait). The Y (Landscape) orientation was determined to be the worst-case orientation.

The worst case position of the EUT was investigated under two configurations: EUT with AC adapter, EUT with earphones. The EUT with AC adapter configuration was determined to be worst-case configuration; therefore, all final tests were performed on the EUT with AC adapter.

In addition, CE and Reader, Reader with Tag mode mode were investigated with Type A, B and F with data rates, such as 106Kbp/s, 212Kbp/s, 424Kbp/s and 848Kbp/s and ISO 15693 configuration to determine the worst case based on the highest power and spurious emissions. Type A 848Kbp/s Reader mode was determined to be the worst case and therefore Type A was selected for all final tests.

For below 30MHz testing, investigation was done on three antenna orientations: RX antenna Face-on, Face-off and horizontal (parallel to ground). The worst-case configurations were determined on RX antenna Face-on and Face-off; therefore, all final tests were performed using these two orientations.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 meter open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

5.5. DESCRIPTION OF TEST SETUP

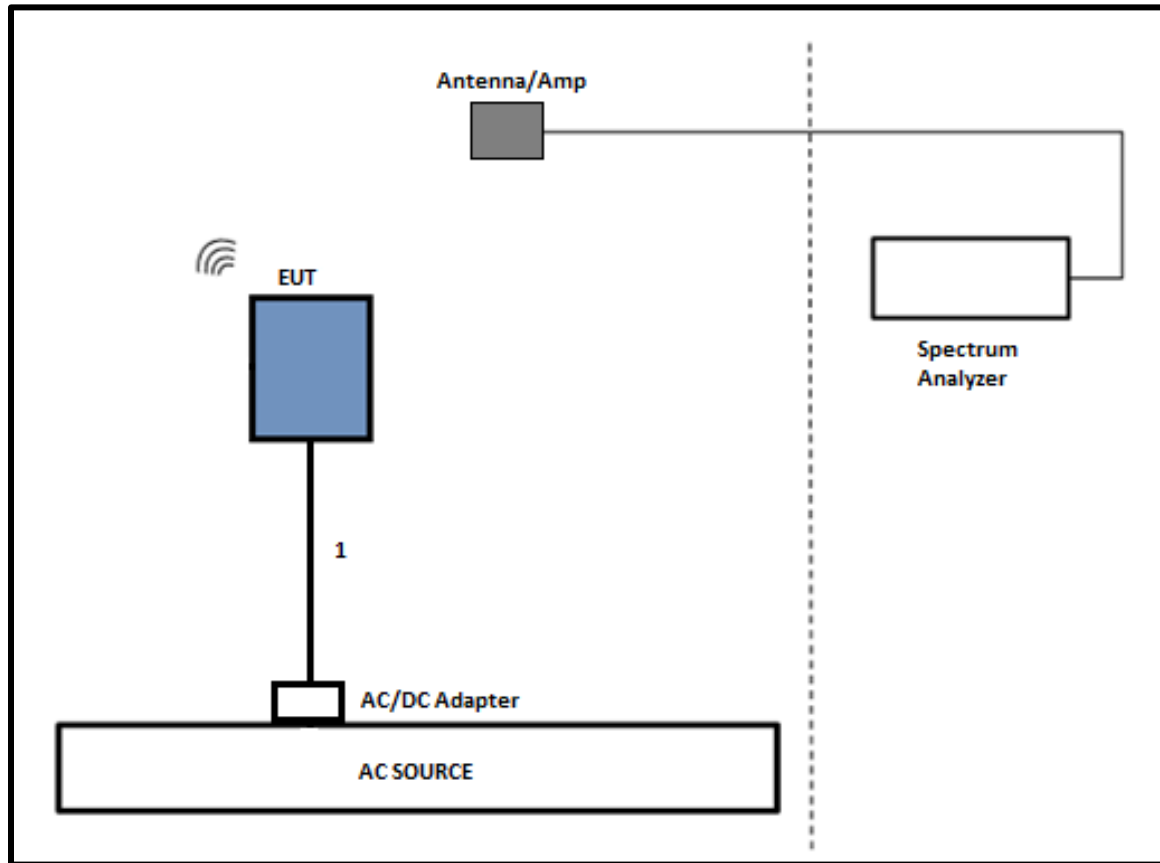
SUPPORT EQUIPMENT

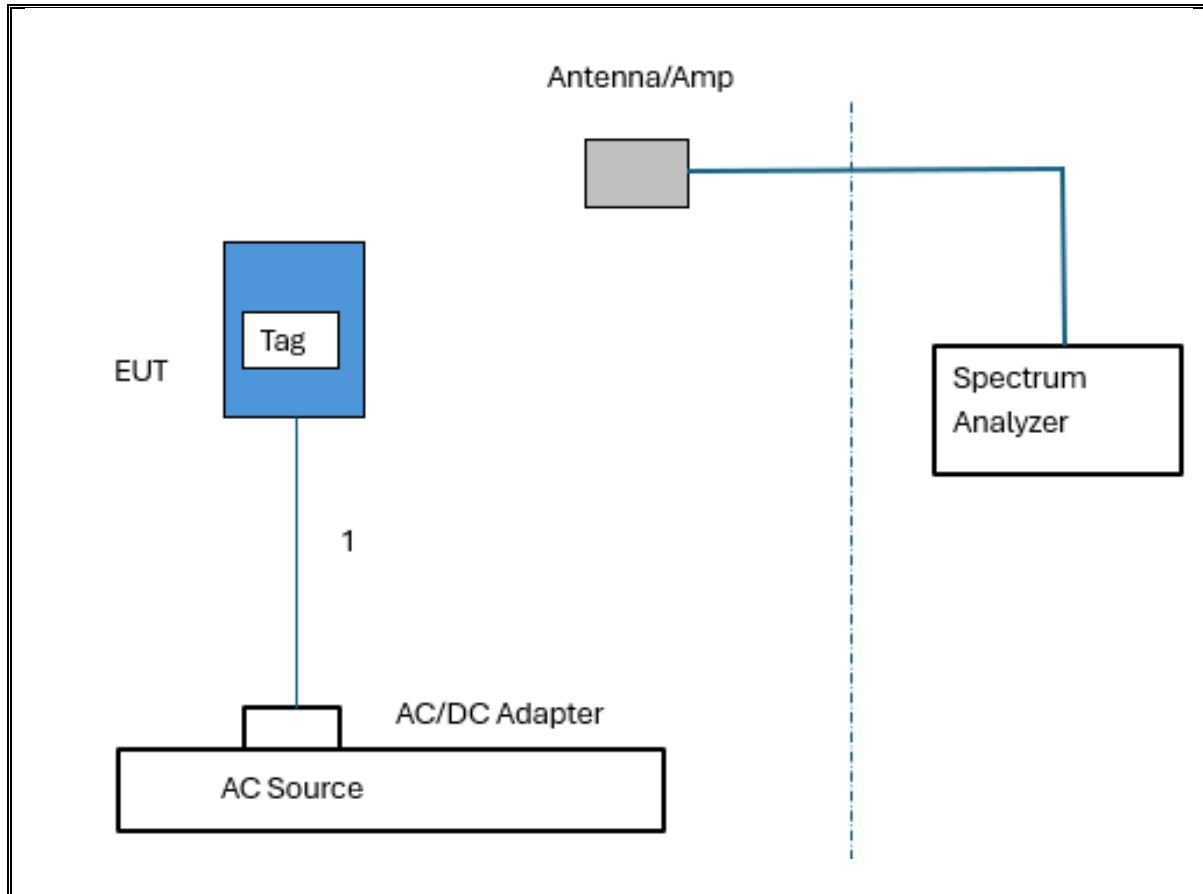
Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Apple	Macbook Air	C2QLN093FKYR	DoC
Laptop AC Adapter	Apple	N/A	ULSW-1C5B65E0-3E9E-4A13-A98F-A2D70FADE8A7	DoC
EUT AC Cable	Apple	A246F	FTLHDB001KW0001061	DoC
EUT AC Adapter	Apple	B820	C4H9516000GPF4F4H	DoC
Tag	N/A	NFC TAG White	GLFG3ATBOY5SAQSH	DoC

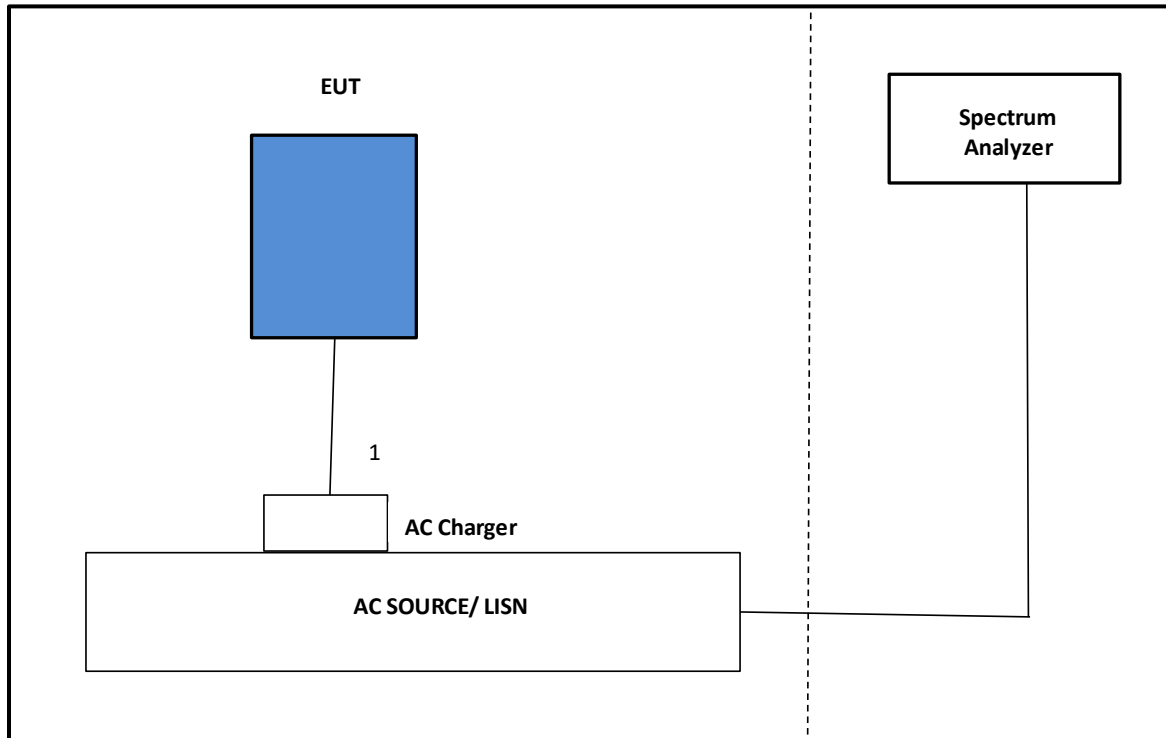
I/O CABLES

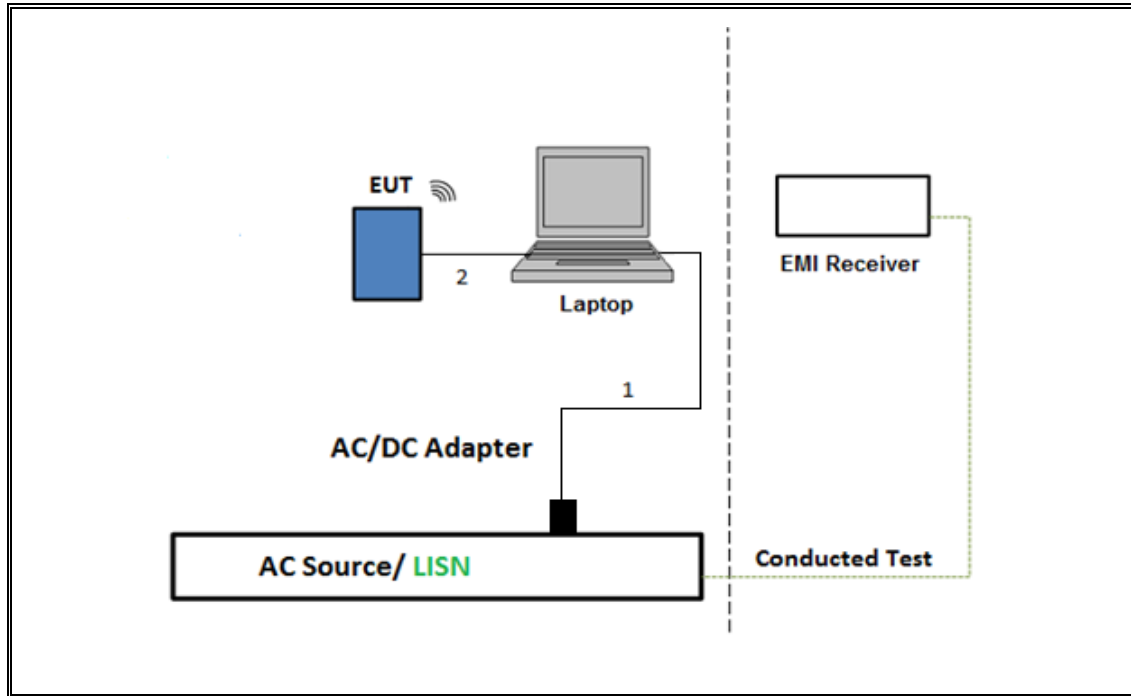
I/O Cable List (RF CONDUCTED TEST)						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	Type C	Un-Shielded	1	N/A

I/O Cable List (RF RADIATED TEST)						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	Type C	Un-Shielded	1	N/A

SETUP DIAGRAM FOR RADIATED TESTS(CE and READER MODE)

SETUP DIAGRAM FOR RADIATED TESTS (READER + TAG MODE)

SETUP DIAGRAM FOR LINE CONDUCTED TESTS

SETUP DIAGRAM FOR LINE CONDUCTED TESTS WITH HOST

6. 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, Passive Loop 30Hz – 1MHz	ELECTRO-METRICS	EM-6871	170014	2025/08/31
Antenna, Passive Loop 100 kHz to 30 MHz	ELECTRO-METRICS	EM-6872	170016	2025/08/31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030B	222071	2026/01/31
Amplifier 9 kHz – 1 GHz	SONOMA INSTRUMENT	310N	224489	2026/05/31
Antenna, BroadBand Hybrid, 30MHz to 2GHz	Sunol Sciences Corp.	JB1	80508	2026/08/31
EMI Test Receiver	Rohde & Schwarz	ESW44	223460	2026/02/28
Environmental Chamber	Thermotron Industries	SM-16C Mini-Max	179936	2025/08/31
Sniffer Probes	Electro Metrics	EM-6992	N/A	N/A

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	N/A	
AC Line Conducted Software	UL	UL EMC	Ver 9.5 Jan 9, 2023	

7. OCCUPIED BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 10kHz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

Note: Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW

RESULTS**99% and 20dB BW****Primary Antenna****Type A (Reader Mode)**

Mode Kbps	Frequency (MHz)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
848	13.56	21.291	24.99

Type A (CE Mode)

Mode Kbps	Frequency (MHz)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
848	13.56	21.716	24.85

Type A (TAG Mode)

Mode Kbps	Frequency (MHz)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
848	13.56	21.266	24.93

Secondary Antenna**Type A (Reader Mode)**

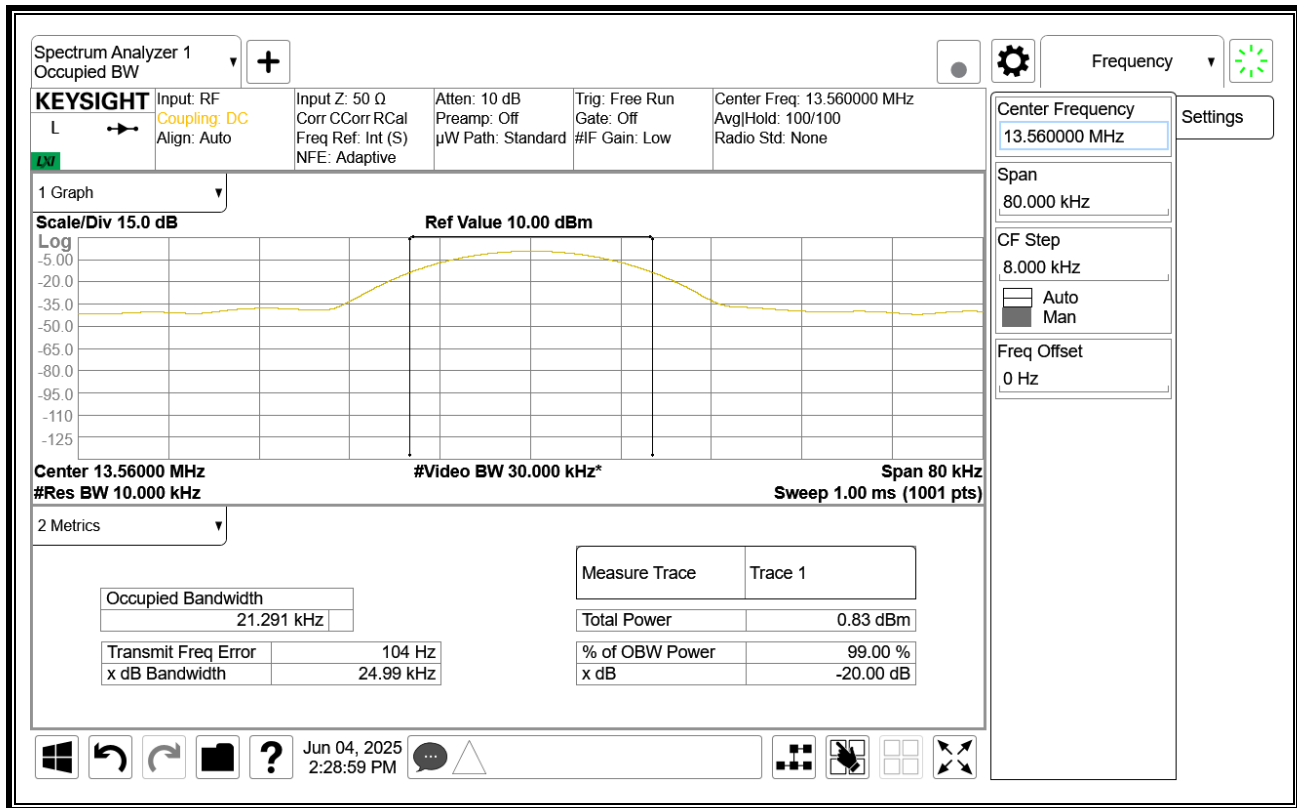
Mode Kbps	Frequency (MHz)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
848	13.56	21.233	24.95

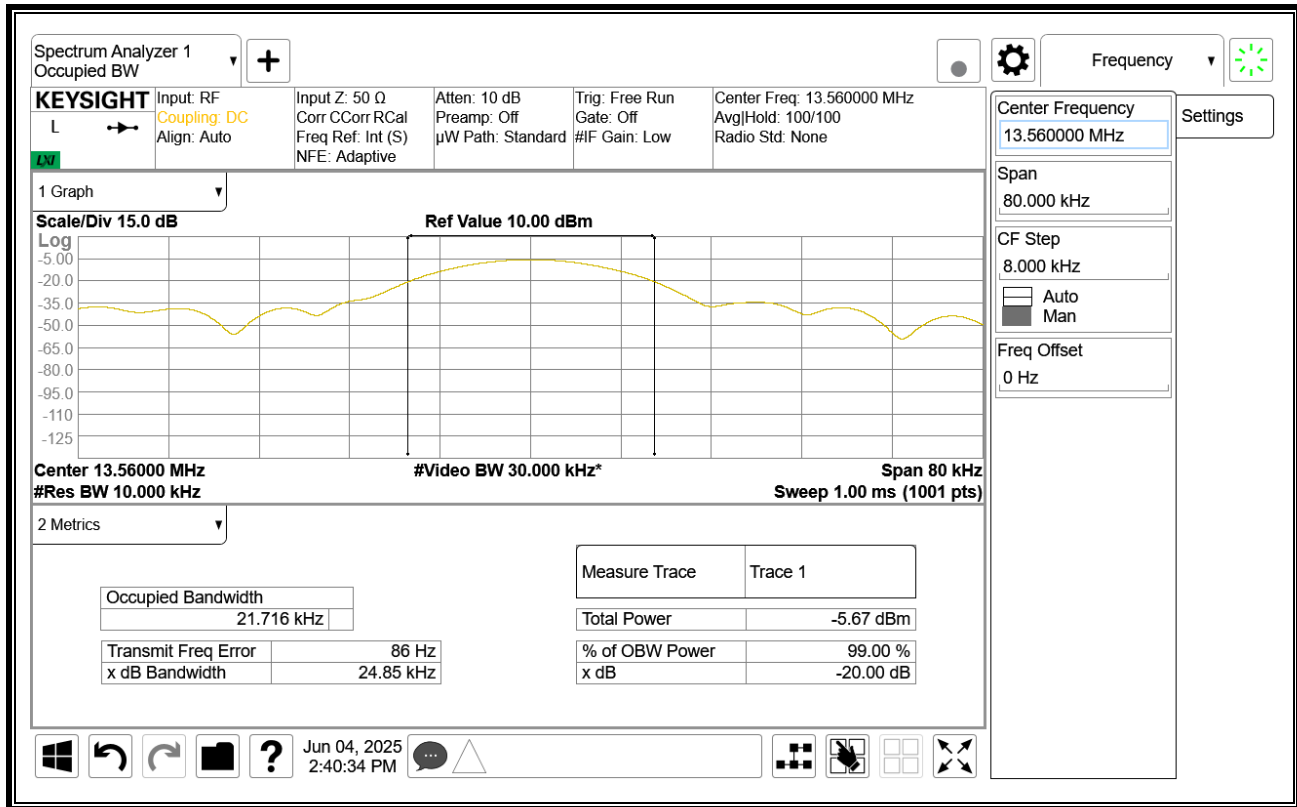
Type A (TAG Mode)

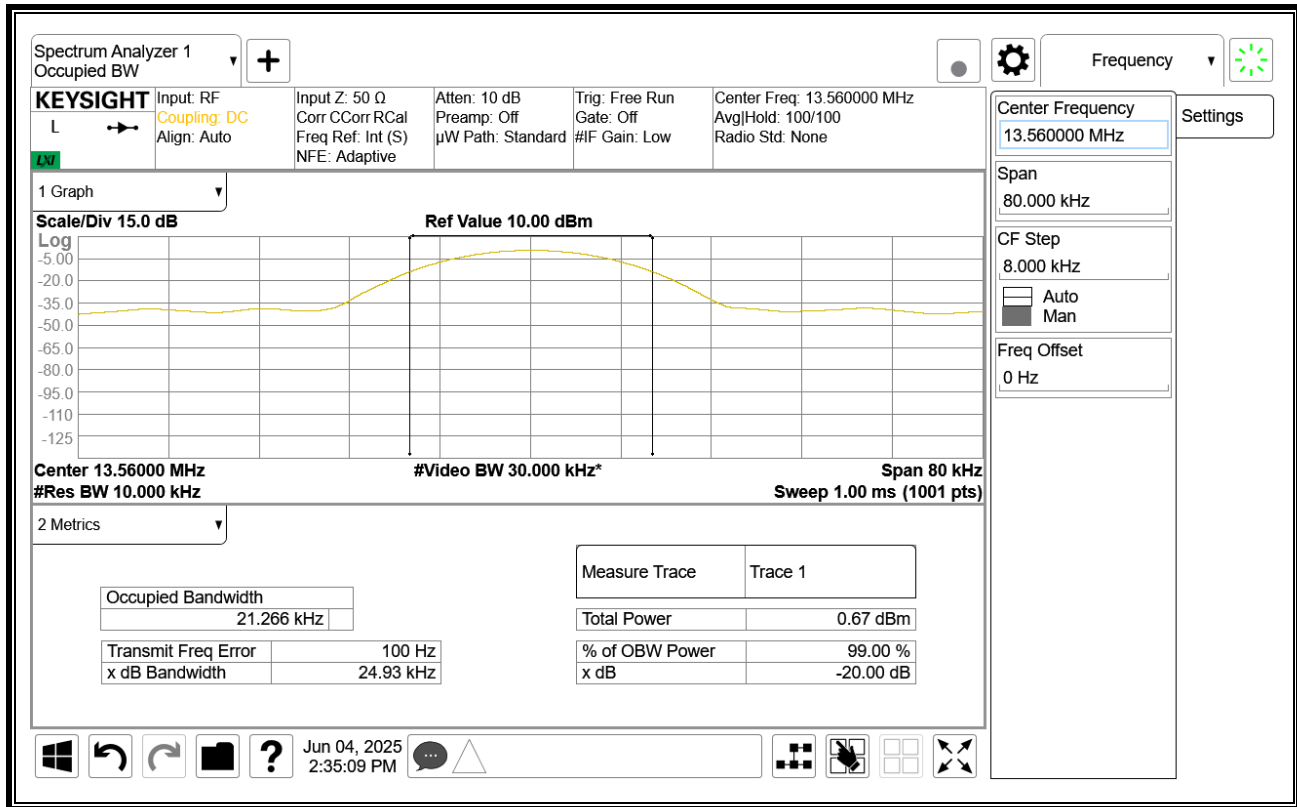
Mode Kbps	Frequency (MHz)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
848	13.56	21.407	25.08

7.1. PRIMARY ANTENNA

Type A (Reader Mode), 848Kbps

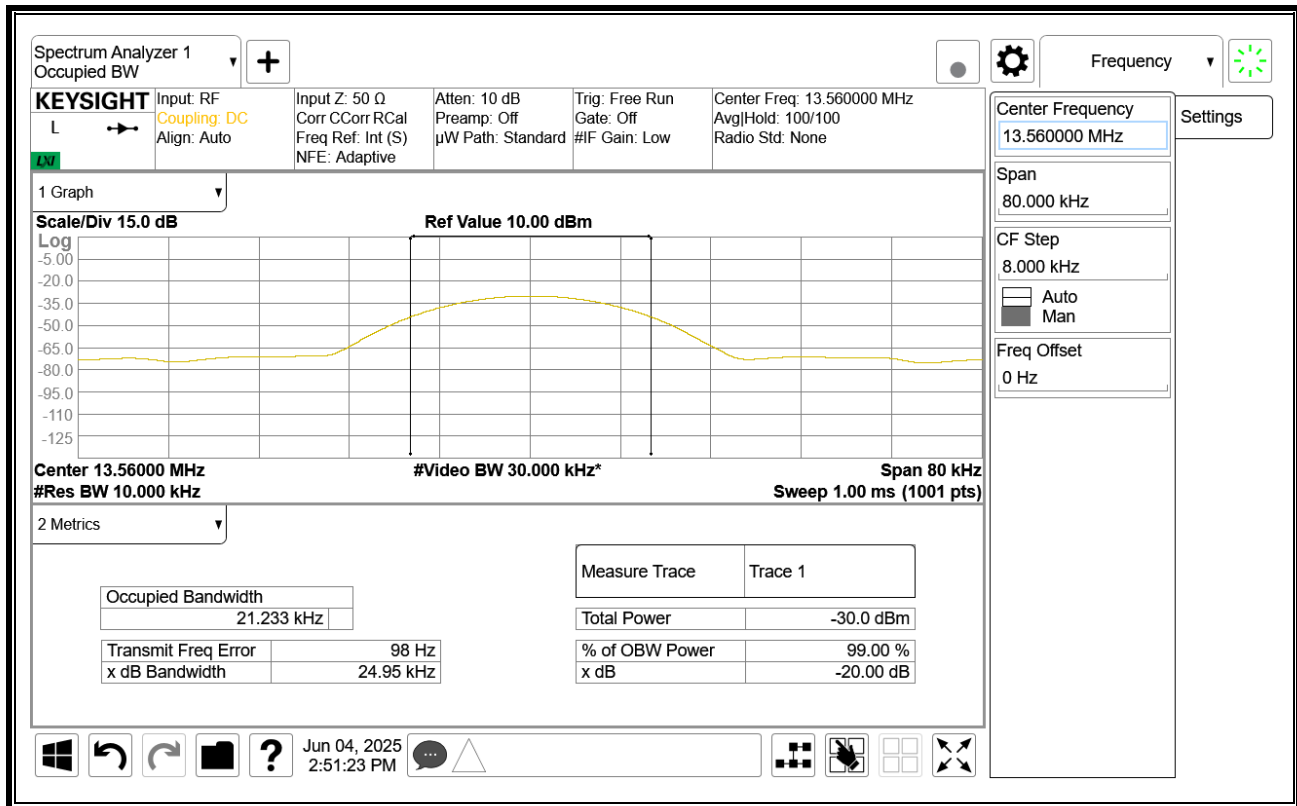


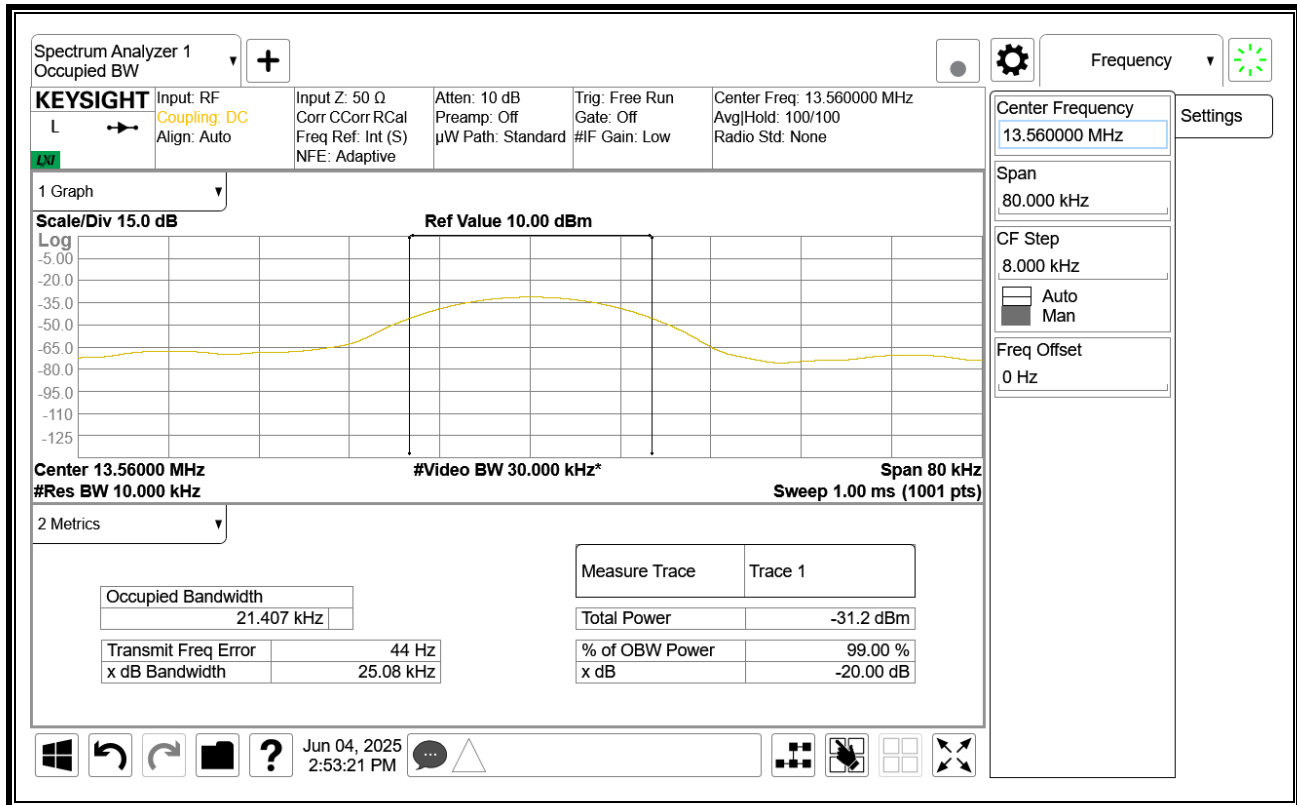
Type A (CE Mode), 848Kbps

Type A (TAG Mode), 848Kbps

7.2. SECONDARY ANTENNA

Type A (Reader Mode), 848Kbps



Type A (TAG Mode), 848Kbps

8. RADIATED EMISSION TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMIT

§15.225

IC RSS-210, Annex B.6

IC RSS-GEN, Section 8.9 (Transmitter)

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/ meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110– 14.010 MHz and shall not exceed the general radiated emission limits in § 15.209 as follows:

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

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

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

Formula for converting the field strength from µV/m to dBµV/m is:

Limit (dBµV/m) = 20 log limit (µV/m)

In addition:

§15.209 (d) The emission limits shown the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

§15.209 (d) The provisions in §§ 15.225, measuring emissions at distances other than the distances specified in the above table, determining the frequency range over which radiated emissions are to be measured, and limiting peak emissions apply to all devices operated under this part.

TEST PROCEDURE

ANSI C63.10-2020

The EUT is an intentional radiator that incorporates a digital device, the highest fundamental frequency generated or used in the device is 13.56 MHz; therefore, the frequency range was investigated from 0.15 MHz to the 10th harmonic of the highest fundamental frequency, or 1000 MHz, whichever is greater.

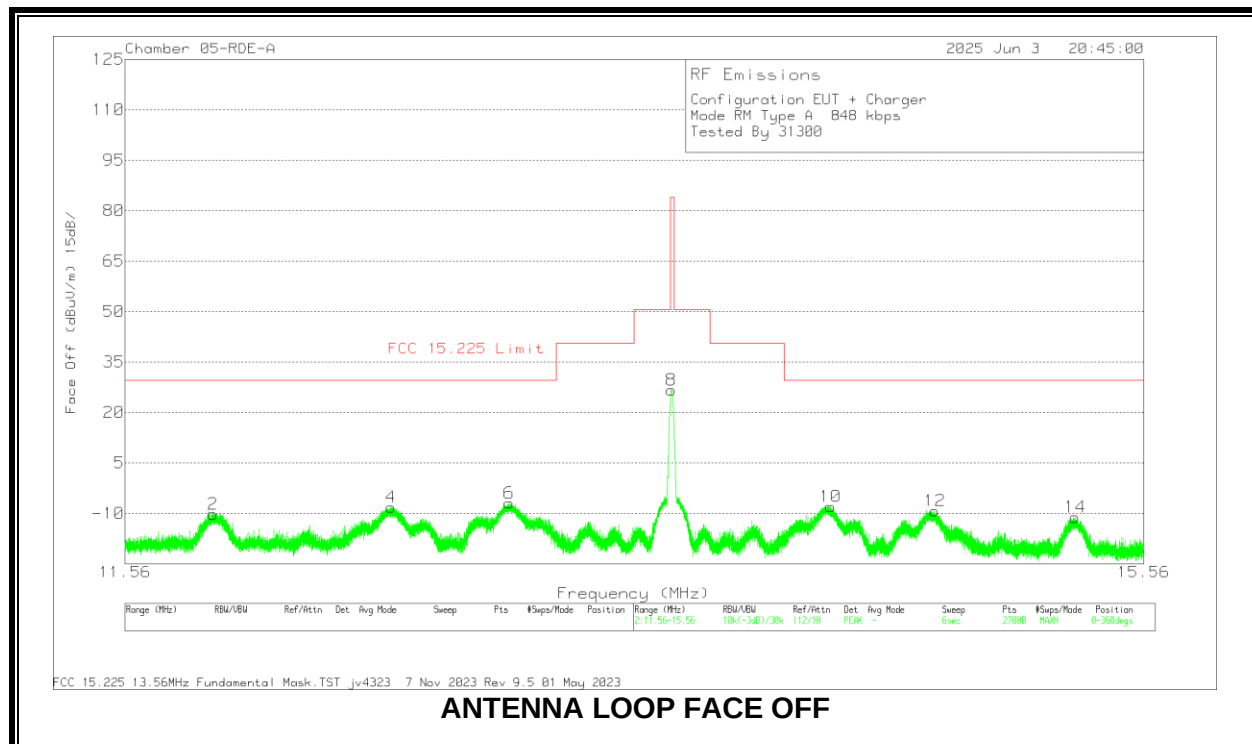
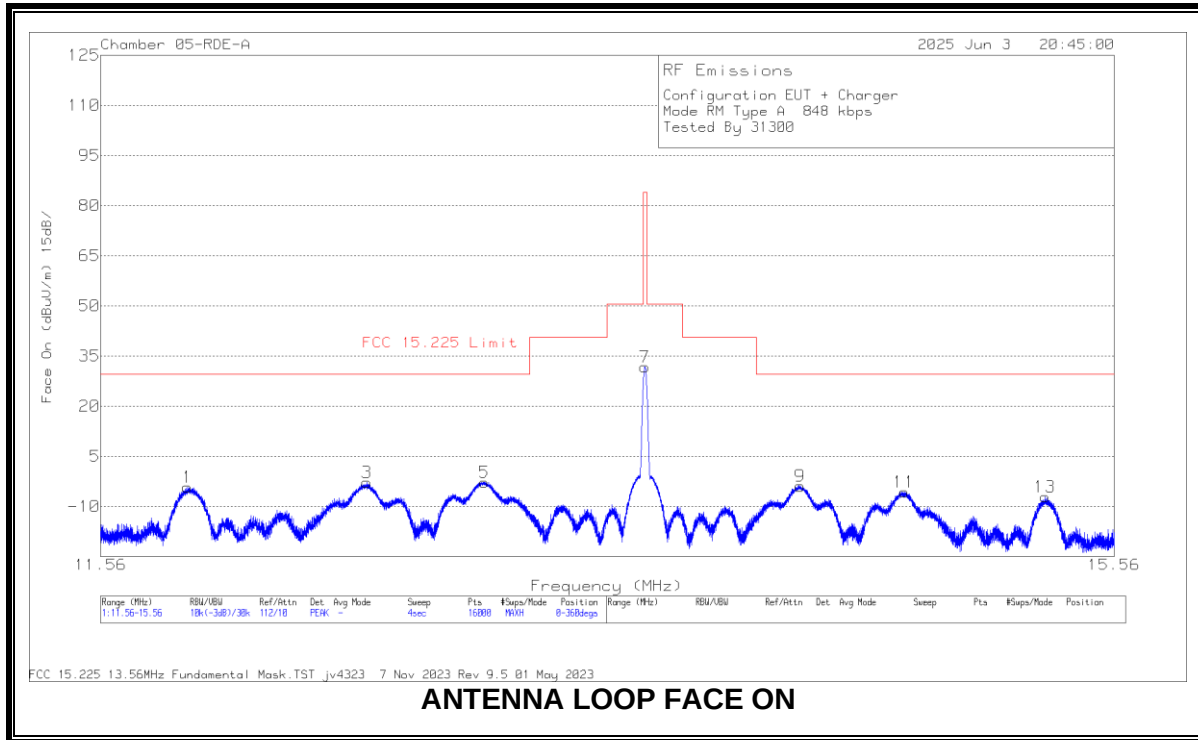
RESULTS

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 report 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.

8.2. PRIMARY ANTENNA FUNDAMENTAL AND SPURIOUS EMISSIONS (0.15 - 30 MHz), EUT WITH AC ADAPTER

8.2.1. READER MODE, Type A 848Kbps

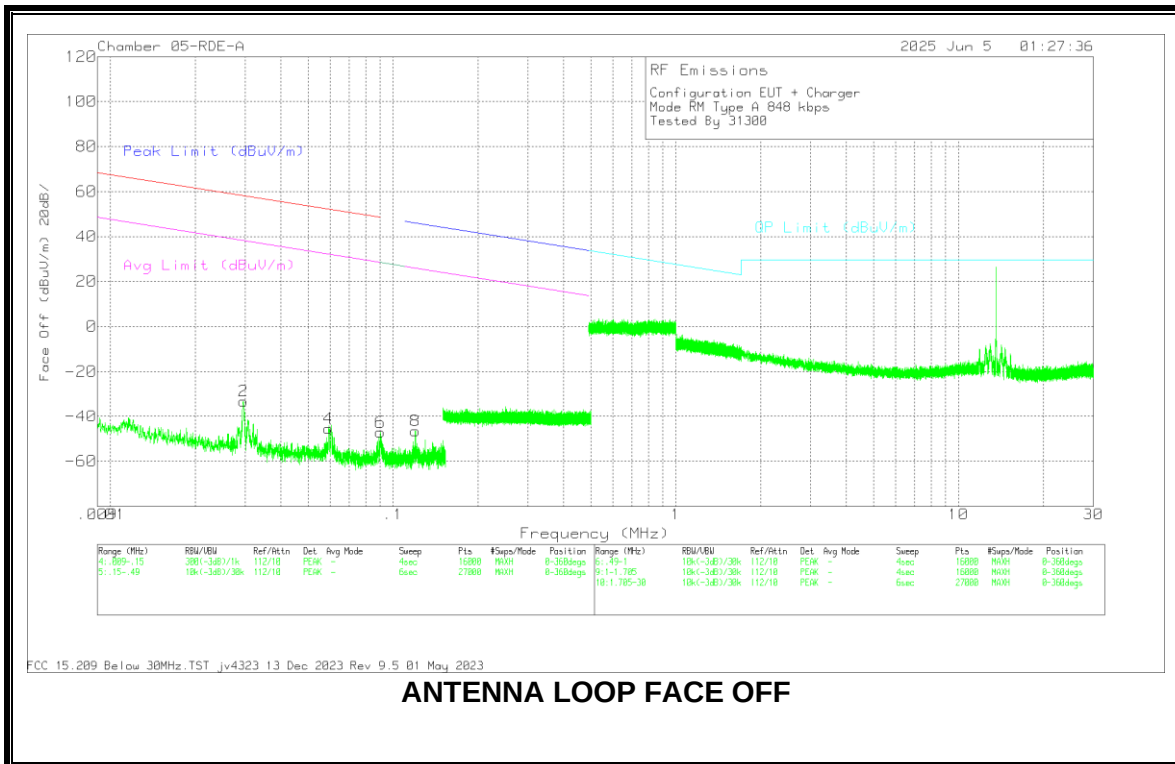
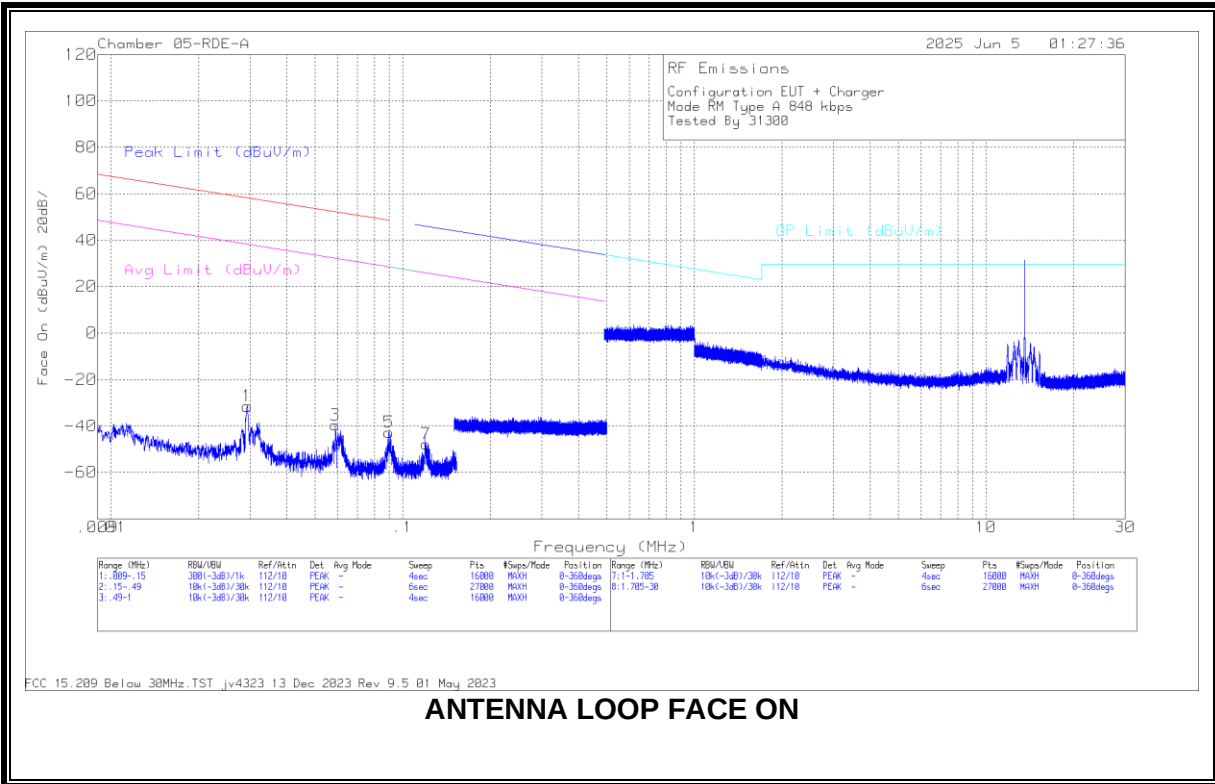
FUNDAMENTAL



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	FCC 15.225 Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Polarity
1	11.8578	33.99	Pk	34.4	-32.6	-40	-4.21	29.54	-33.75	0-360	Face-on
2	11.8601	28.07	Pk	34.4	-32.7	-40	-10.23	29.54	-39.77	0-360	Face-Off
4	12.4924	30.36	Pk	34.2	-32.7	-40	-8.14	29.54	-37.68	0-360	Face-Off
3	12.4983	35.82	Pk	34.2	-32.8	-40	-2.78	29.54	-32.32	0-360	Face-on
6	12.9311	31.87	Pk	34.1	-32.9	-40	-6.93	29.54	-36.47	0-360	Face-Off
5	12.9363	36.03	Pk	34.1	-32.9	-40	-2.77	29.54	-32.31	0-360	Face-on
8	13.5571	65.56	Pk	34	-32.9	-40	26.66	84	-57.34	0-360	Face-Off
7	13.5599	70.62	Pk	34	-32.9	-40	31.72	84	-52.28	0-360	Face-on
9	14.1915	35	Pk	33.9	-32.8	-40	-3.9	29.54	-33.44	0-360	Face-on
10	14.2012	30.83	Pk	33.9	-32.7	-40	-7.97	29.54	-37.51	0-360	Face-Off
11	14.6315	33.14	Pk	33.8	-32.6	-40	-5.66	29.54	-35.2	0-360	Face-on
12	14.6397	29.59	Pk	33.8	-32.6	-40	-9.21	29.54	-38.75	0-360	Face-Off
13	15.2483	32.02	Pk	33.7	-32.8	-40	-7.08	29.54	-36.62	0-360	Face-on
14	15.2519	27.96	Pk	33.7	-32.8	-40	-11.14	29.54	-40.68	0-360	Face-Off

Pk - Peak detector

SPURIOUS EMISSION 848Kbps

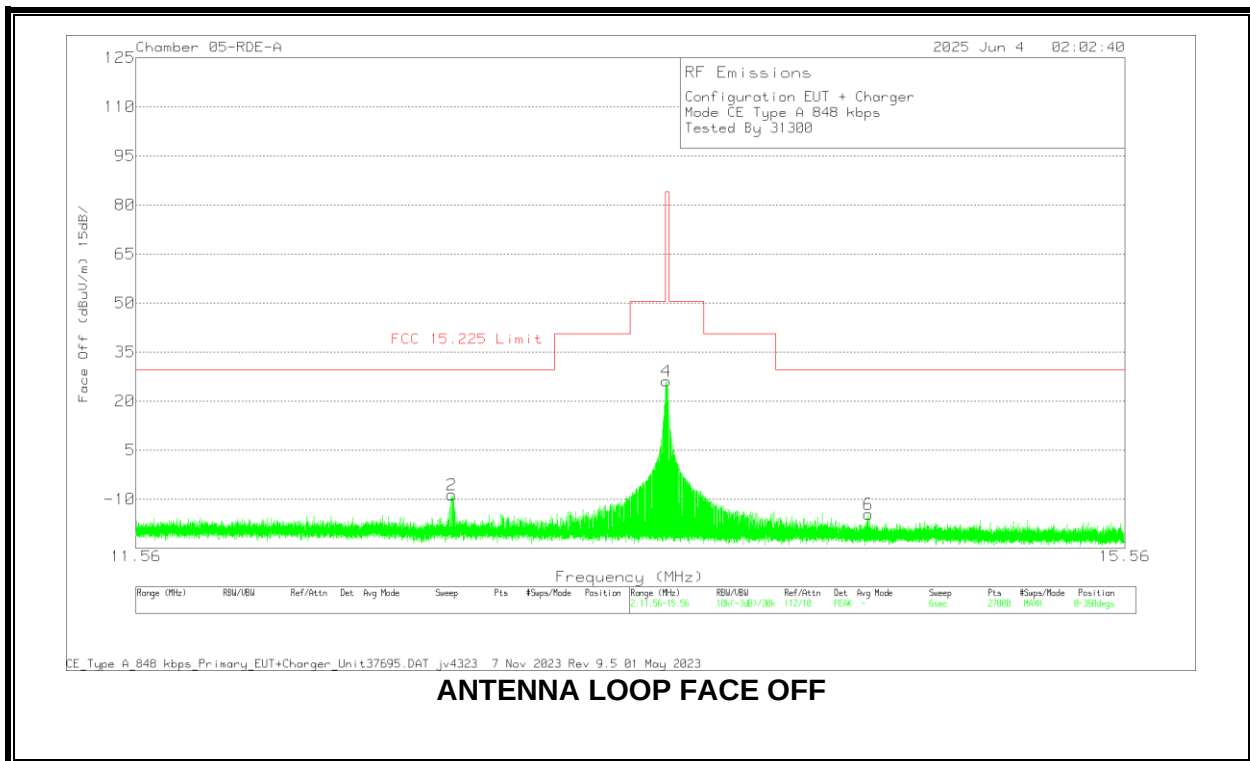
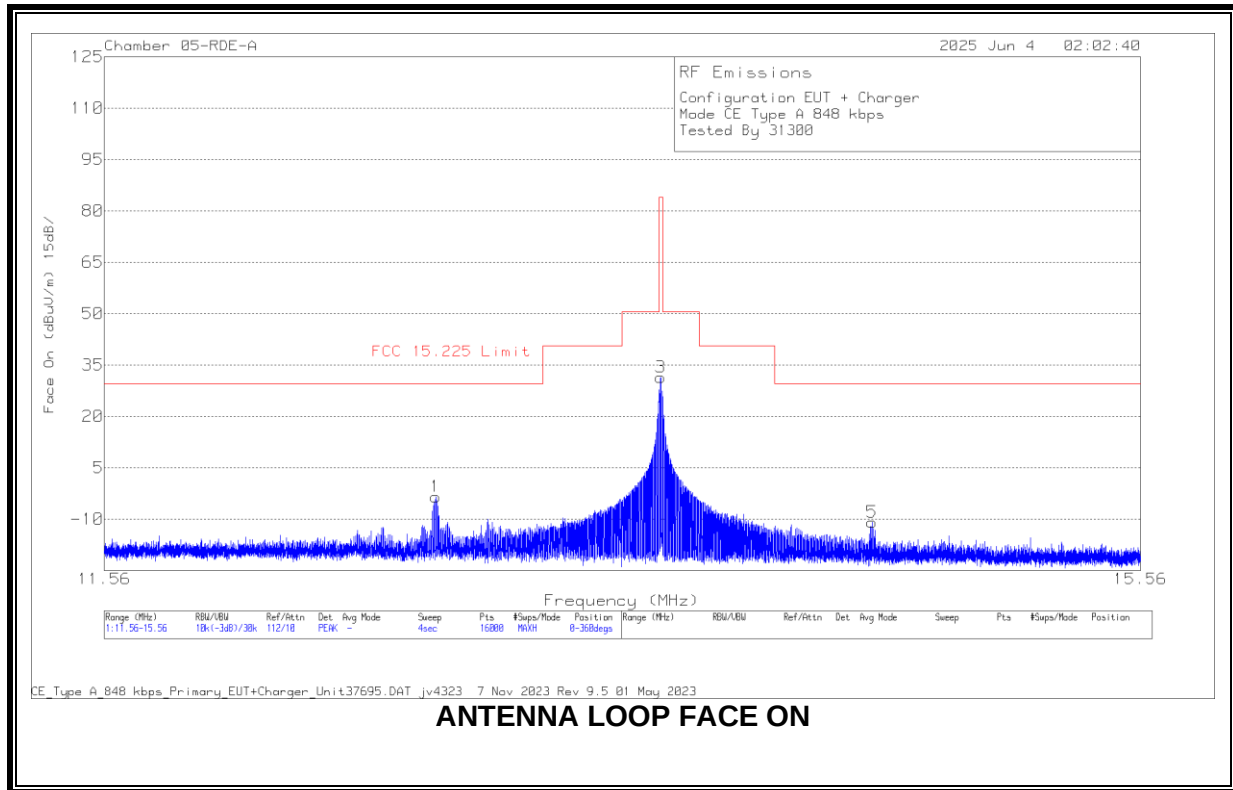
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dBm)	AmplCbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.0293	23.52	Pk	57.8	-32.8	-80	-31.48	58.24	-89.72	38.24	-69.72	-	-	-	-	-	-	0-360	Face-On
2	.0296	21.79	Pk	57.8	-32.8	-80	-33.21	58.17	-91.38	38.17	-71.38	-	-	-	-	-	-	0-360	Face-Off
3	.0588	17.67	Pk	56.1	-33.4	-80	-39.63	52.2	-91.83	32.2	-71.83	-	-	-	-	-	-	0-360	Face-On
4	.059	11.94	Pk	56.1	-33.4	-80	-45.36	52.16	-97.52	32.16	-77.52	-	-	-	-	-	-	0-360	Face-Off
5	.0898	14.7	Pk	55.6	-33	-80	-42.7	48.52	-91.22	28.52	-71.22	-	-	-	-	-	-	0-360	Face-On
6	.0902	10.41	Pk	55.6	-33	-80	-46.99	-	-	-	-	28.48	-75.47	-	-	-	-	0-360	Face-Off
8	.1198	10.71	Pk	55.6	-32.7	-80	-46.39	-	-	-	-	-	-	46.05	-92.44	26.05	-72.44	0-360	Face-Off
7	.1202	9.37	Pk	55.6	-32.7	-80	-47.73	-	-	-	-	-	-	46.03	-93.76	26.03	-73.76	0-360	Face-On

Pk - Peak detector

8.2.2. CE MODE, Type A 848Kbps

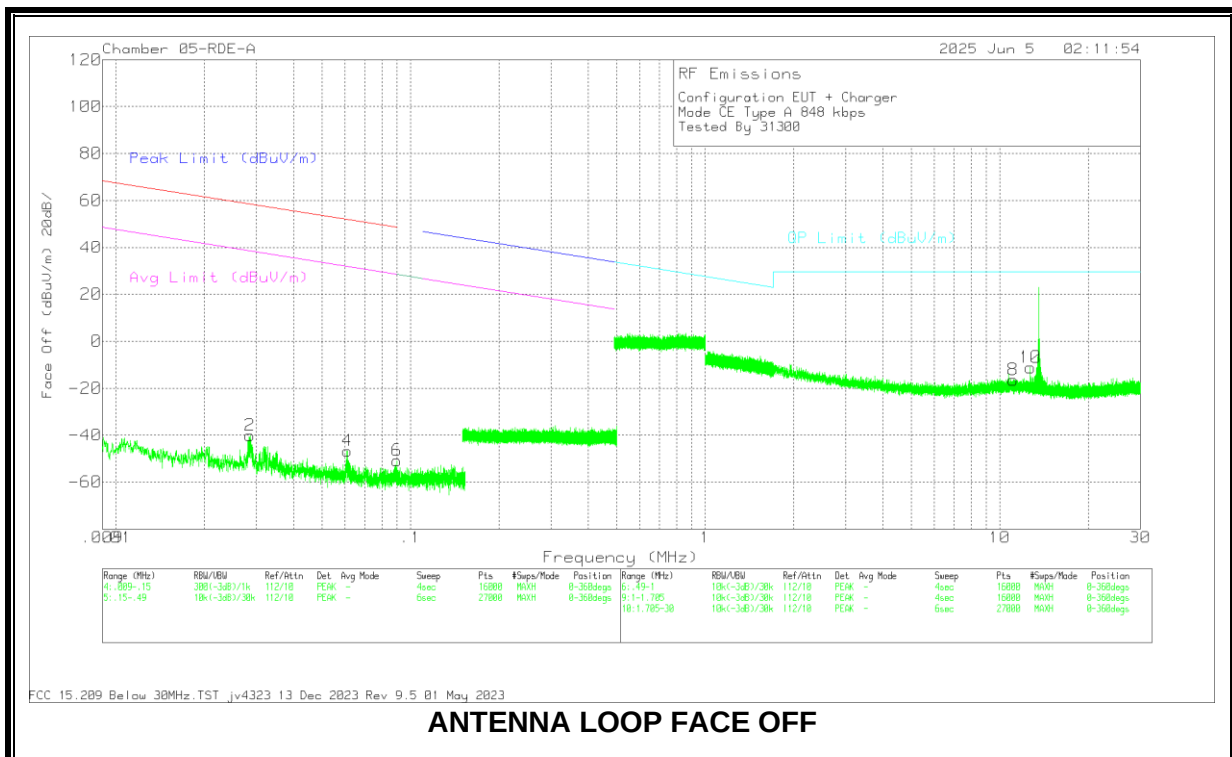
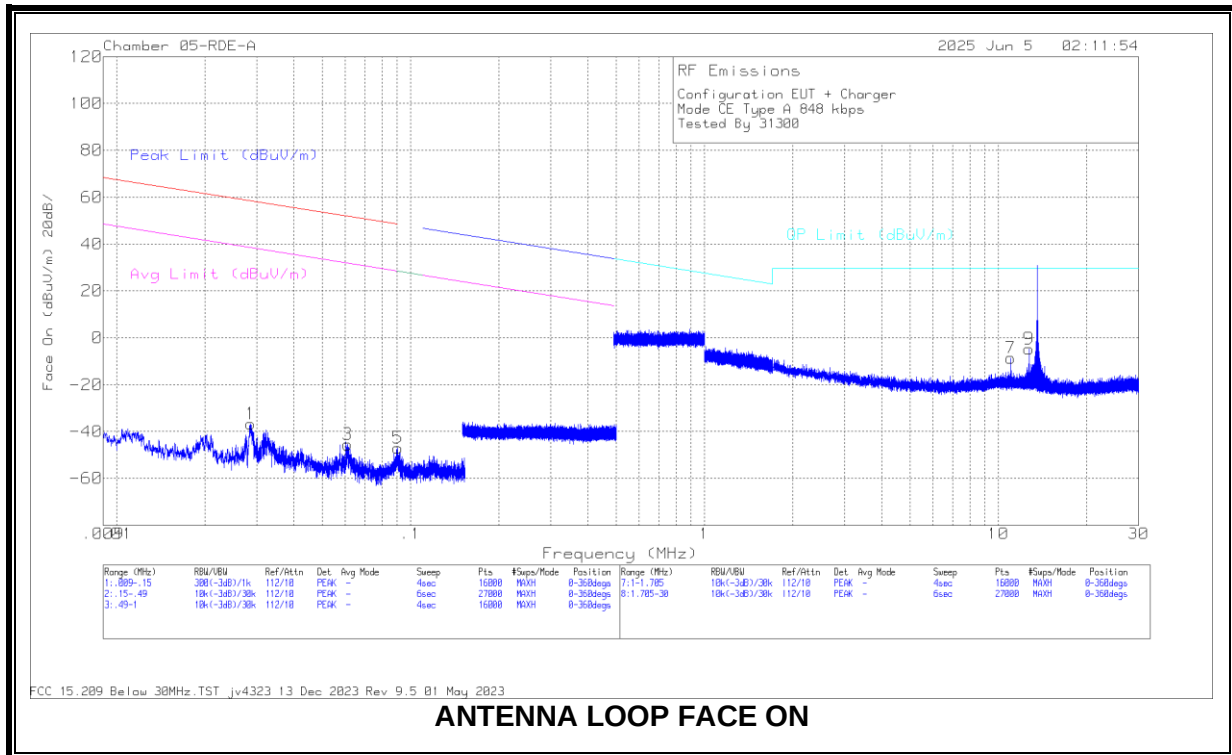
FUNDAMENTAL 848Kbps



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	FCC 15.225 Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Polarity
2	12.7106	29.85	Pk	34.2	-32.7	-40	-8.65	29.54	-38.19	0-360	Face-Off
1	12.7125	35.07	Pk	34.2	-32.7	-40	-3.43	29.54	-32.97	0-360	Face-On
4	13.5576	65.04	Pk	34	-32.9	-40	26.14	84	-57.86	0-360	Face-Off
3	13.5598	70.32	Pk	34	-32.9	-40	31.42	84	-52.58	0-360	Face-On
6	14.4056	24.51	Pk	33.9	-33	-40	-14.59	29.54	-44.13	0-360	Face-Off
5	14.4073	28.21	Pk	33.9	-33	-40	-10.89	29.54	-40.43	0-360	Face-On

Pk - Peak detector

SPURIOUS EMISSION 848Kbps

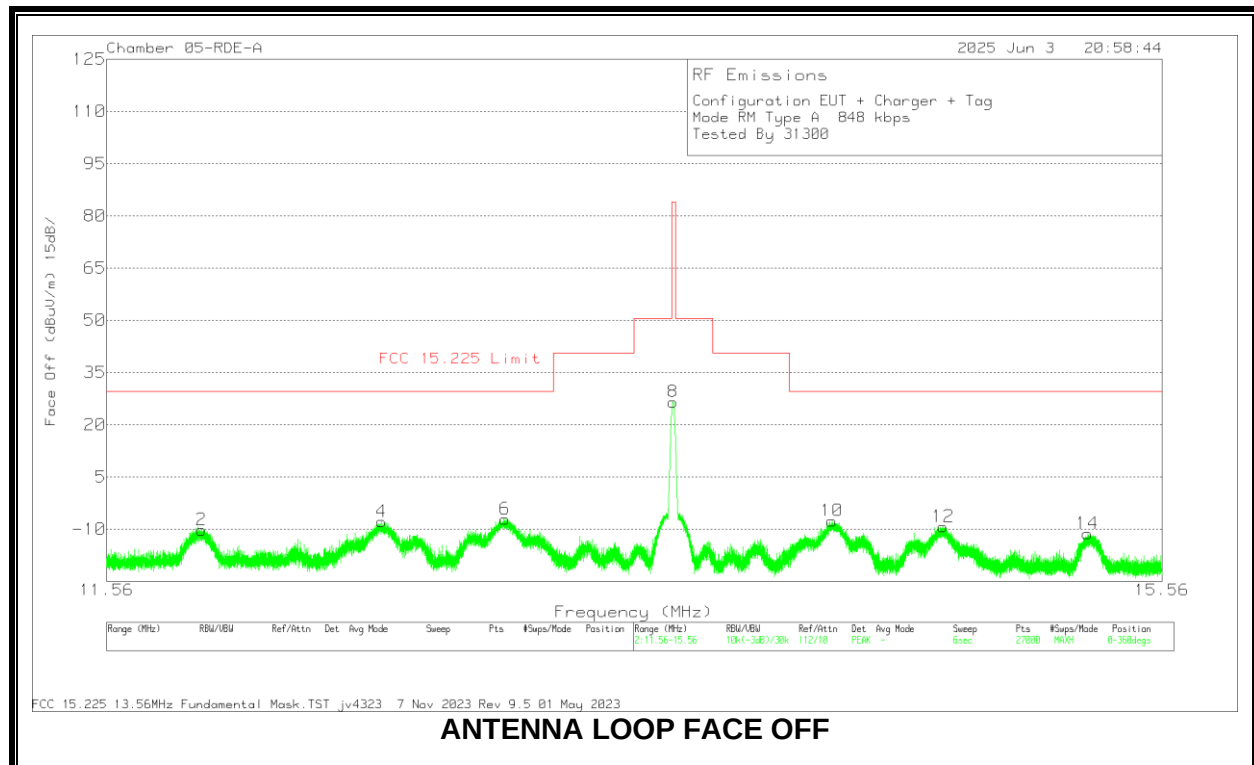
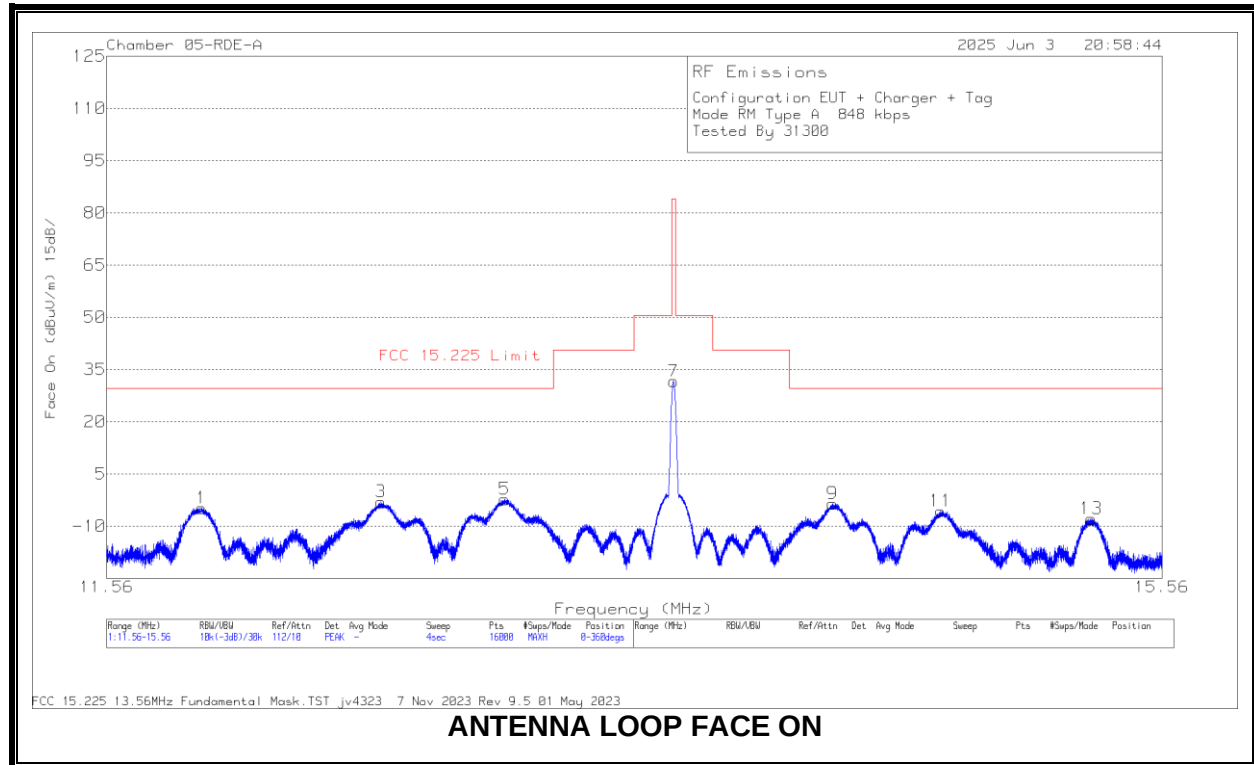
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
2	.0285	14.86	Pk	57.9	-32.8	-80	-40.04	58.49	-98.53	38.49	-78.53	-	-	0-360	Face-Off
1	.0286	19.21	Pk	57.9	-32.8	-80	-36.69	58.46	-95.15	38.46	-75.15	-	-	0-360	Face-On
3	.0611	12.01	Pk	56	-33.5	-80	-45.49	51.87	-97.36	31.87	-77.36	-	-	0-360	Face-On
4	.0611	10.93	Pk	56	-33.5	-80	-46.67	51.87	-98.54	31.87	-78.54	-	-	0-360	Face-Off
6	.09	6.56	Pk	55.6	-33	-80	-50.84	48.5	-99.34	28.5	-79.34	-	-	0-360	Face-Off
5	.0905	10.38	Pk	55.6	-33	-80	-47.02	-	-	-	-	28.46	-75.48	0-360	Face-On

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
7	11.0091	29.7	Pk	34.5	-32.8	-40	-8.6	29.5	-38.1	0-360	Face-On
8	11.1024	21.86	Pk	34.4	-32.7	-40	-16.44	29.5	-45.94	0-360	Face-Off
10	12.7006	27.38	Pk	34.2	-32.8	-40	-11.22	29.5	-40.72	0-360	Face-Off
9	12.7174	33.84	Pk	34.1	-32.7	-40	-4.76	29.5	-34.26	0-360	Face-On

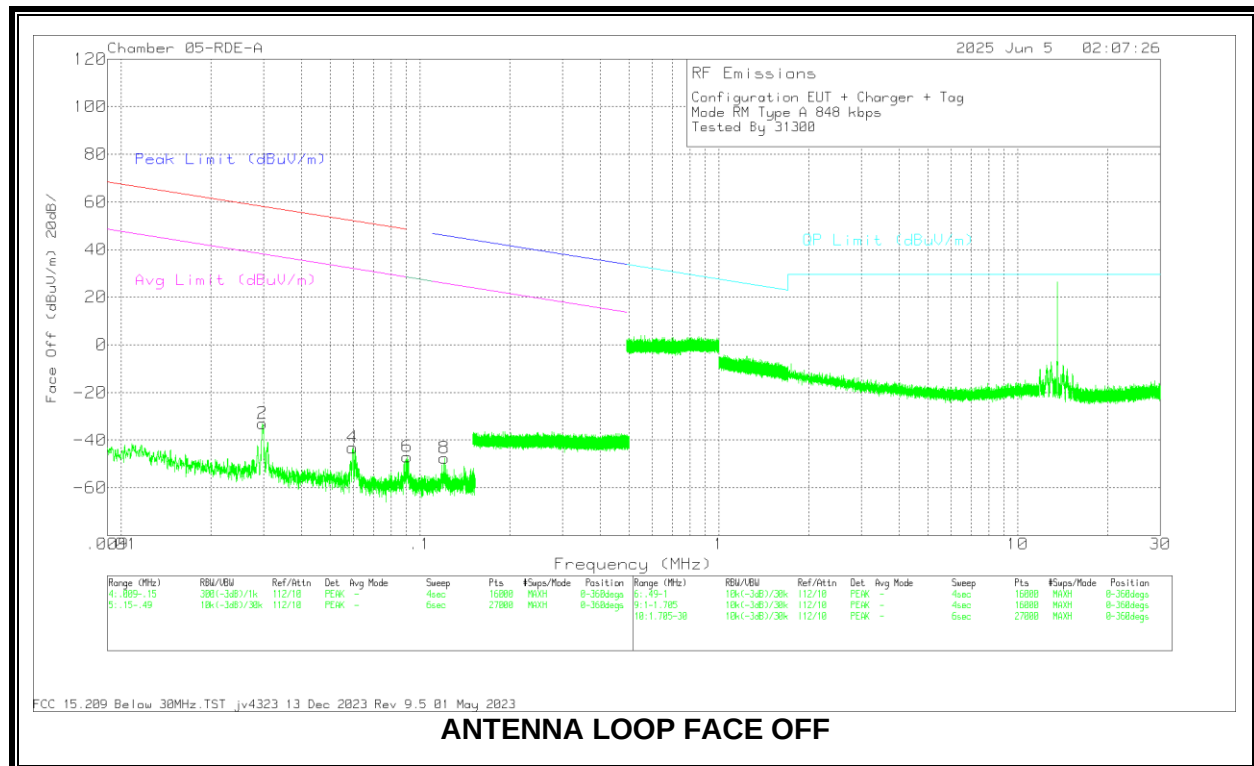
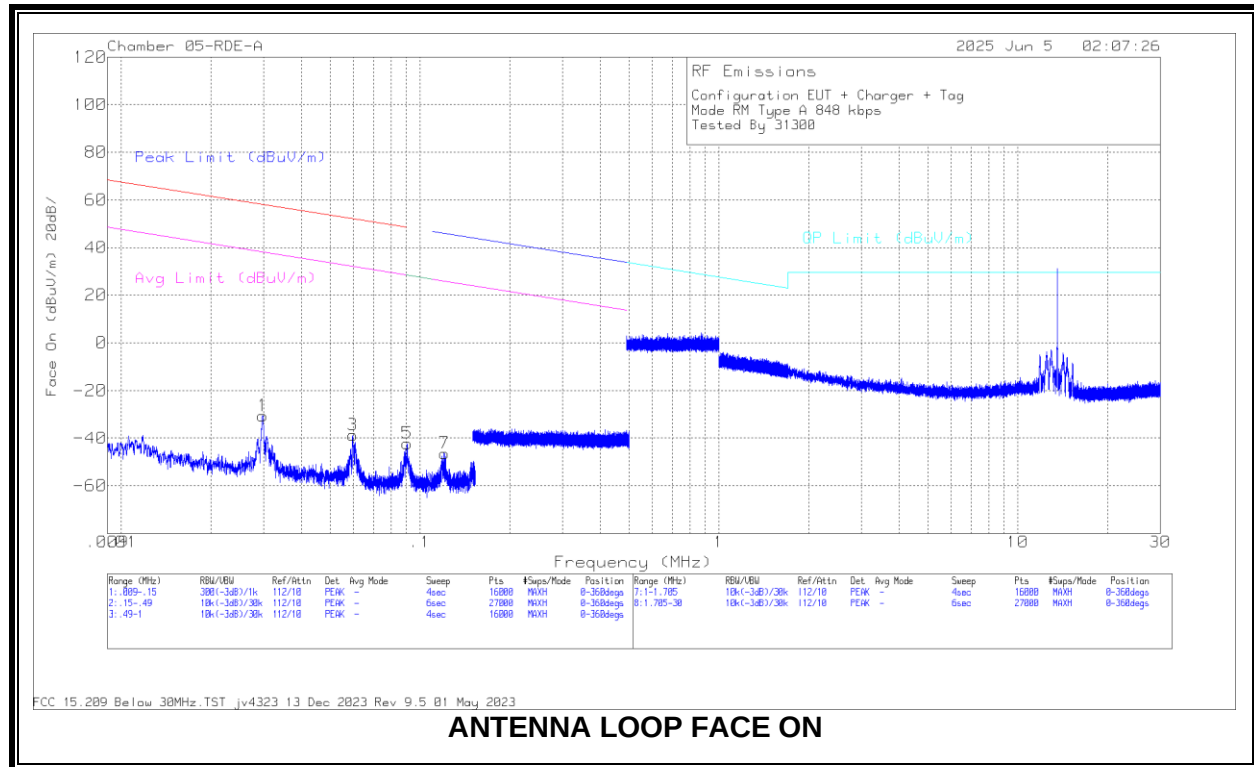
Pk - Peak detector

8.2.3. TAG MODE, Type A 848Kbps**FUNDAMENTAL**

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	FCC 15.225 Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Polarity
2	11.8727	28.08	Pk	34.4	-32.7	-40	-10.22	29.54	-39.76	0-360	Face-Off
1	11.8728	33.46	Pk	34.4	-32.7	-40	-4.84	29.54	-34.38	0-360	Face-On
3	12.4878	35.46	Pk	34.2	-32.7	-40	-3.04	29.54	-32.58	0-360	Face-On
4	12.4899	30.65	Pk	34.2	-32.7	-40	-7.85	29.54	-37.39	0-360	Face-Off
5	12.9305	36.52	Pk	34.1	-32.9	-40	-2.28	29.54	-31.82	0-360	Face-On
6	12.9312	31.72	Pk	34.1	-32.9	-40	-7.08	29.54	-36.62	0-360	Face-Off
8	13.5584	65.44	Pk	34	-32.9	-40	26.54	84	-57.46	0-360	Face-Off
7	13.5603	70.53	Pk	34	-32.9	-40	31.63	84	-52.37	0-360	Face-On
10	14.1792	31.31	Pk	33.9	-32.8	-40	-7.59	29.54	-37.13	0-360	Face-Off
9	14.1815	35.32	Pk	33.9	-32.8	-40	-3.58	29.54	-33.12	0-360	Face-On
11	14.6195	33.22	Pk	33.8	-32.7	-40	-5.68	29.54	-35.22	0-360	Face-On
12	14.6297	29.49	Pk	33.8	-32.6	-40	-9.31	29.54	-38.85	0-360	Face-Off
14	15.2372	27.81	Pk	33.7	-32.8	-40	-11.29	29.54	-40.83	0-360	Face-Off
13	15.2528	31.2	Pk	33.7	-32.8	-40	-7.9	29.54	-37.44	0-360	Face-On

Pk - Peak detector

SPURIOUS EMISSION 848Kbps

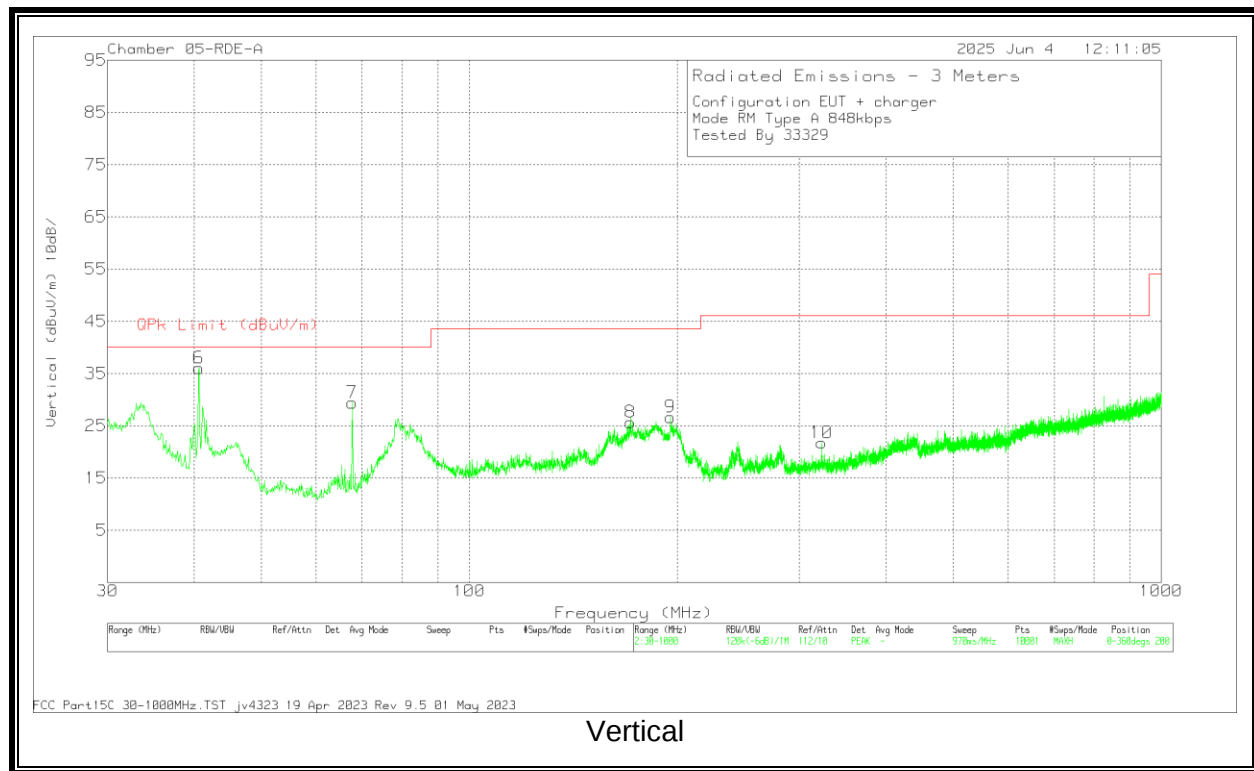
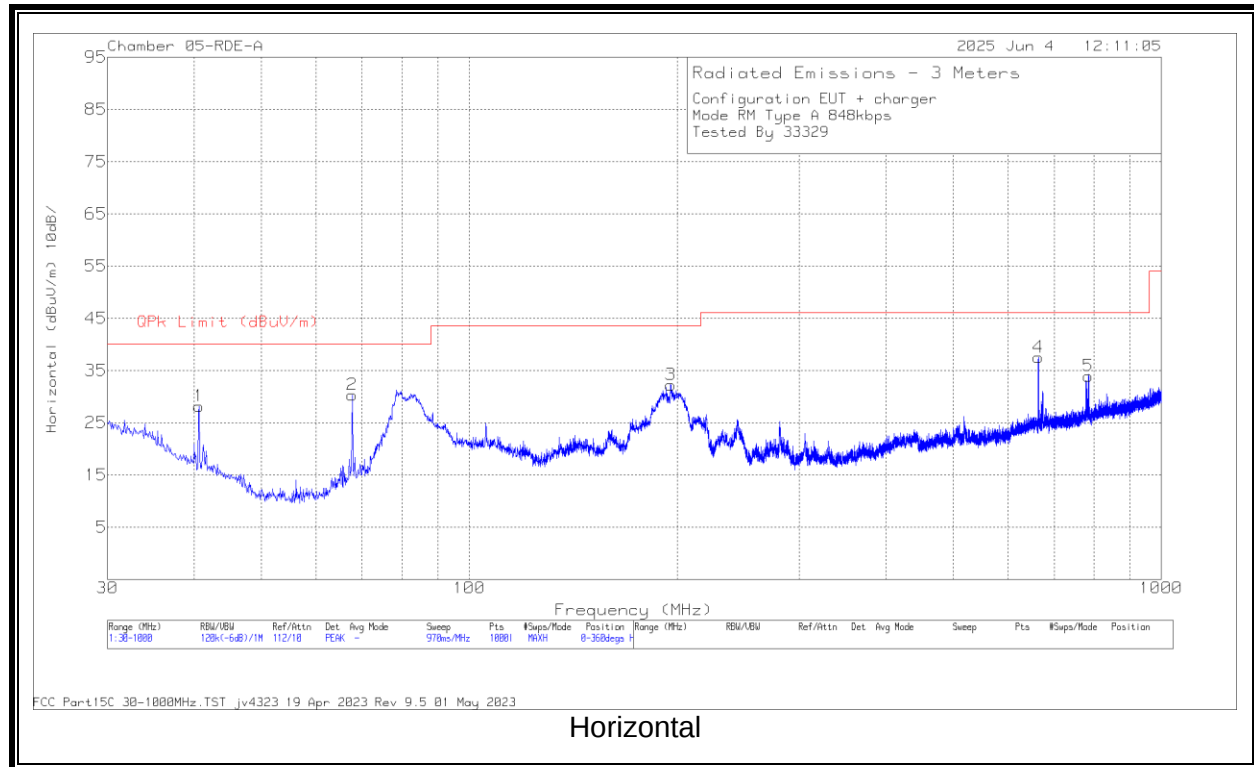
DATA

Marker	Frequency (kHz)	Meas Reading (dBuV)	Det	Loop Antenna E (dBm)	Ampl/Cat (dB)	Dist Corr 300m	Corrected Reading (dBuVine)	Peak Limit (dBuVine)	Margin (dB)	Avg Limit (dBuVine)	Margin (dB)	QP Limit (dBuVine)	Margin (dB)	Peak Limit (dBuVine)	Margin (dB)	Avg Limit (dBuVine)	Margin (dB)	Asimuth (Degs)	Polarity
2	.0297	22.02	Pk	57.8	-32.8	-80	-32.98	58.12	-91.1	38.12	-71.1	-	-	-	-	-	-	0-360	Face-Off
1	.0298	24.33	Pk	57.8	-32.8	-80	-30.67	58.11	-88.78	38.11	-68.78	-	-	-	-	-	-	0-360	Face-On
4	.0595	14.23	Pk	56.1	-33.5	-80	-43.17	52.1	-95.27	32.1	-75.27	-	-	-	-	-	-	0-360	Face-Off
3	.0596	18.69	Pk	56.1	-33.5	-80	-38.71	52.08	-90.79	32.08	-70.79	-	-	-	-	-	-	0-360	Face-On
5	.0906	15.2	Pk	55.6	-33	-80	-42.2	-	-	-	-	28.45	-70.65	-	-	-	-	0-360	Face-On
6	.0906	10.45	Pk	55.6	-33	-80	-46.95	-	-	-	-	28.44	-75.39	-	-	-	-	0-360	Face-Off
8	.1206	9.53	Pk	55.6	-32.7	-80	-47.57	-	-	-	-	-	-	46	-93.57	26	-73.57	0-360	Face-Off
7	.1207	10.73	Pk	55.6	-32.7	-80	-46.37	-	-	-	-	-	-	45.99	-92.36	25.99	-72.36	0-360	Face-On

Pk - Peak detector

8.3. TX SPURIOUS EMISSION 30 TO 1000 MHz, EUT WITH AC ADAPTER

8.3.1. Type A (READER MODE), SPURIOUS EMISSION 848Kbps



DATA

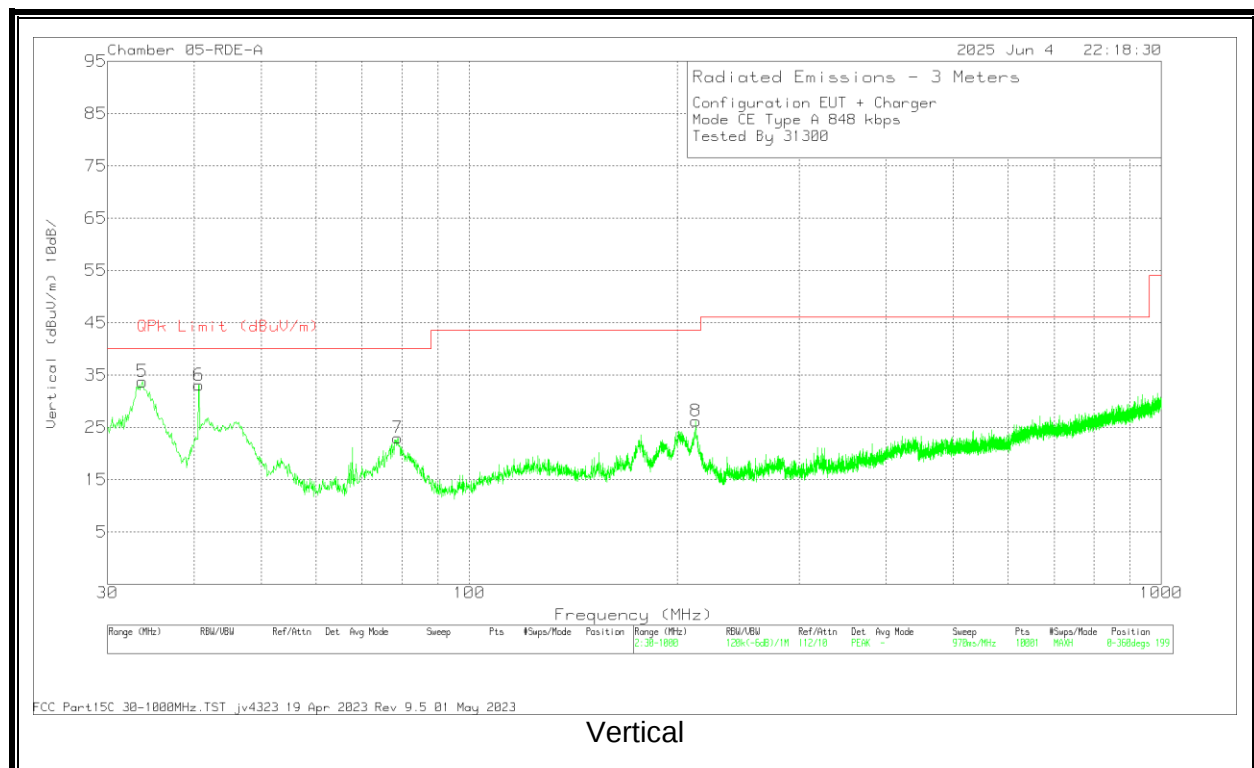
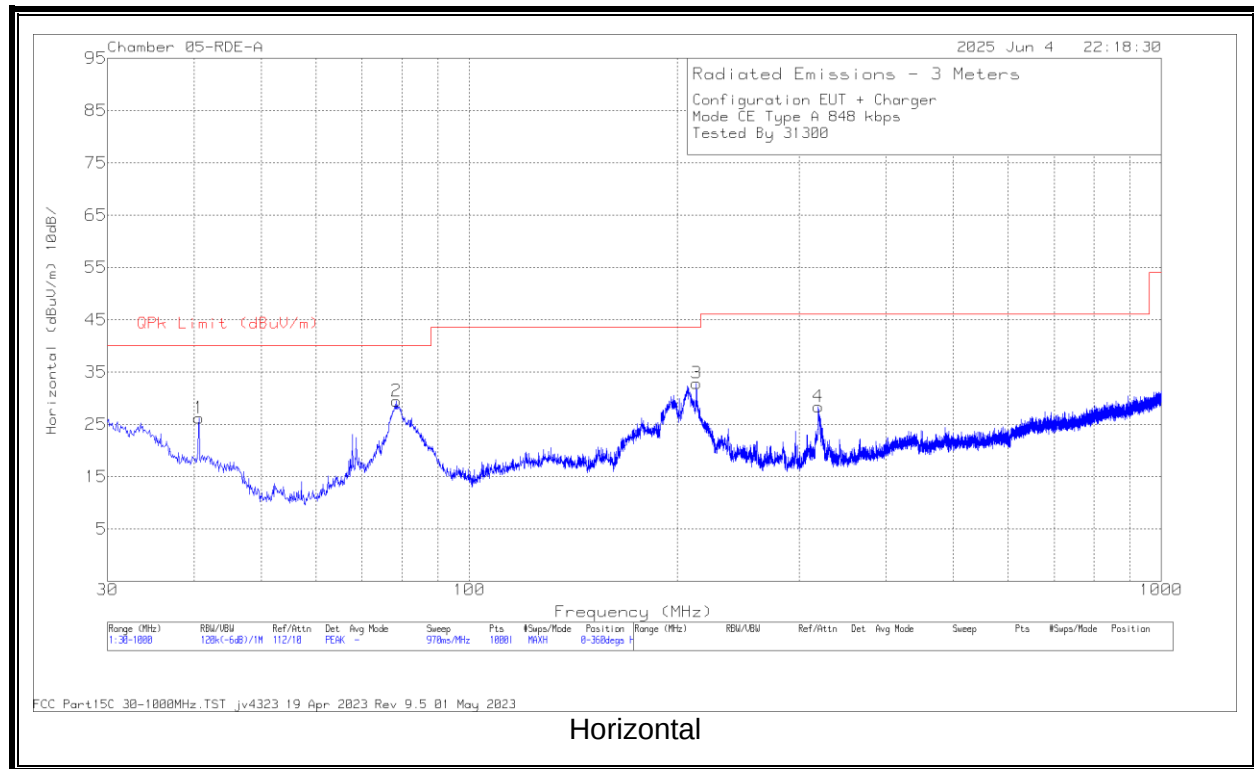
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80508 ACF (dB/m)	Ampl/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
8	* 170.941	40.45	Pk	17.3	-32.1	25.65	43.52	-17.87	0-360	100	V
10	* 323.037	32.73	Pk	19.8	-30.8	21.73	46.02	-24.29	0-360	100	V
1	40.67	41.86	Pk	19.1	-32.8	28.16	40	-11.84	0-360	299	H
6	40.67	49.73	Pk	19.1	-32.8	36.03	40	-3.97	0-360	100	V
	40.6779	49.28	Qp	19.1	-32.8	35.58	40	-4.42	221	108	V
2	67.733	48.41	Pk	14	-32.1	30.31	40	-9.69	0-360	199	H
	67.8022	48.19	Qp	14	-32.1	30.09	40	-9.91	157	183	H
7	67.733	47.5	Pk	14	-32.1	29.4	40	-10.6	0-360	100	V
9	195.385	40.34	Pk	18	-31.7	26.64	43.52	-16.88	0-360	100	V
3	195.482	45.94	Pk	18	-31.7	32.24	43.52	-11.28	0-360	199	H
4	664.283	42.09	Pk	25.7	-30.3	37.49	46.02	-8.53	0-360	199	H
	664.095	22.54	Qp	25.7	-30.4	17.84	46.02	-28.18	172	158	H
5	784.757	36.85	Pk	27	-29.9	33.95	46.02	-12.07	0-360	99	H

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

Pk - Peak detector

Qp - Quasi-Peak detector

8.3.2. Type A (CE MODE), SPURIOUS EMISSION 848Kbps



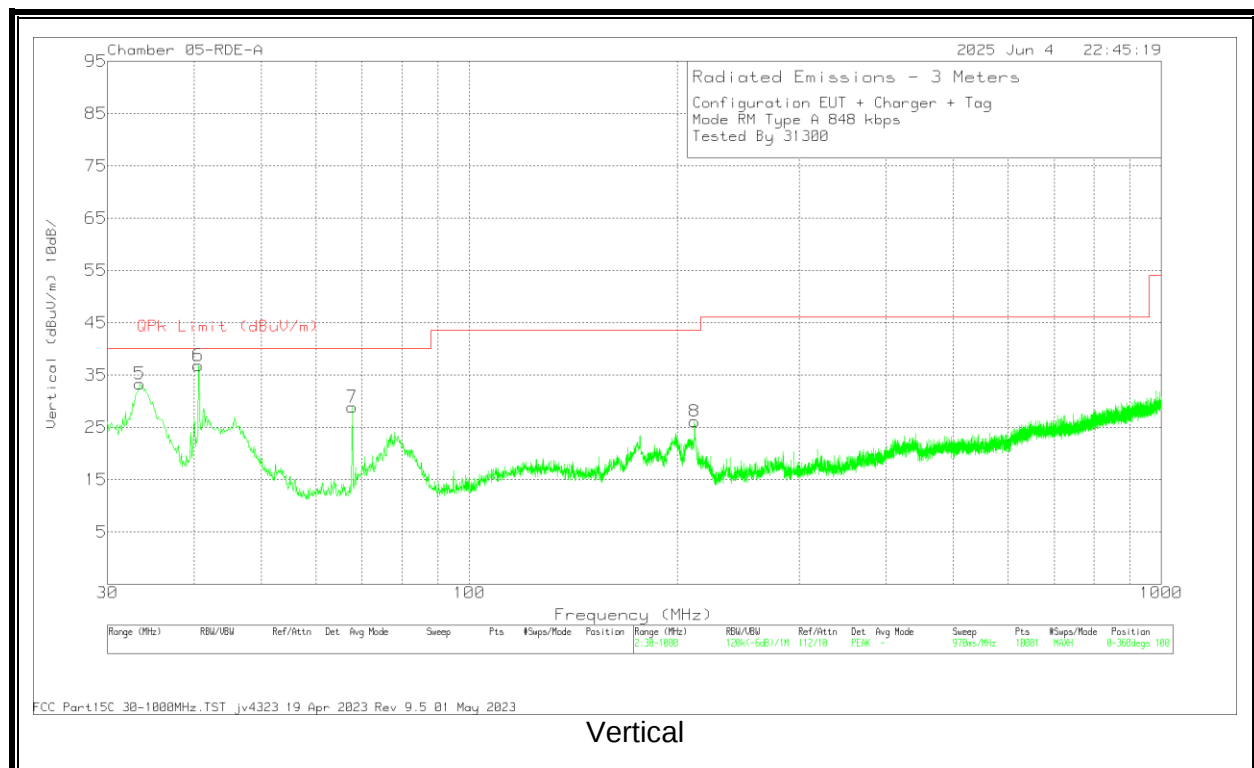
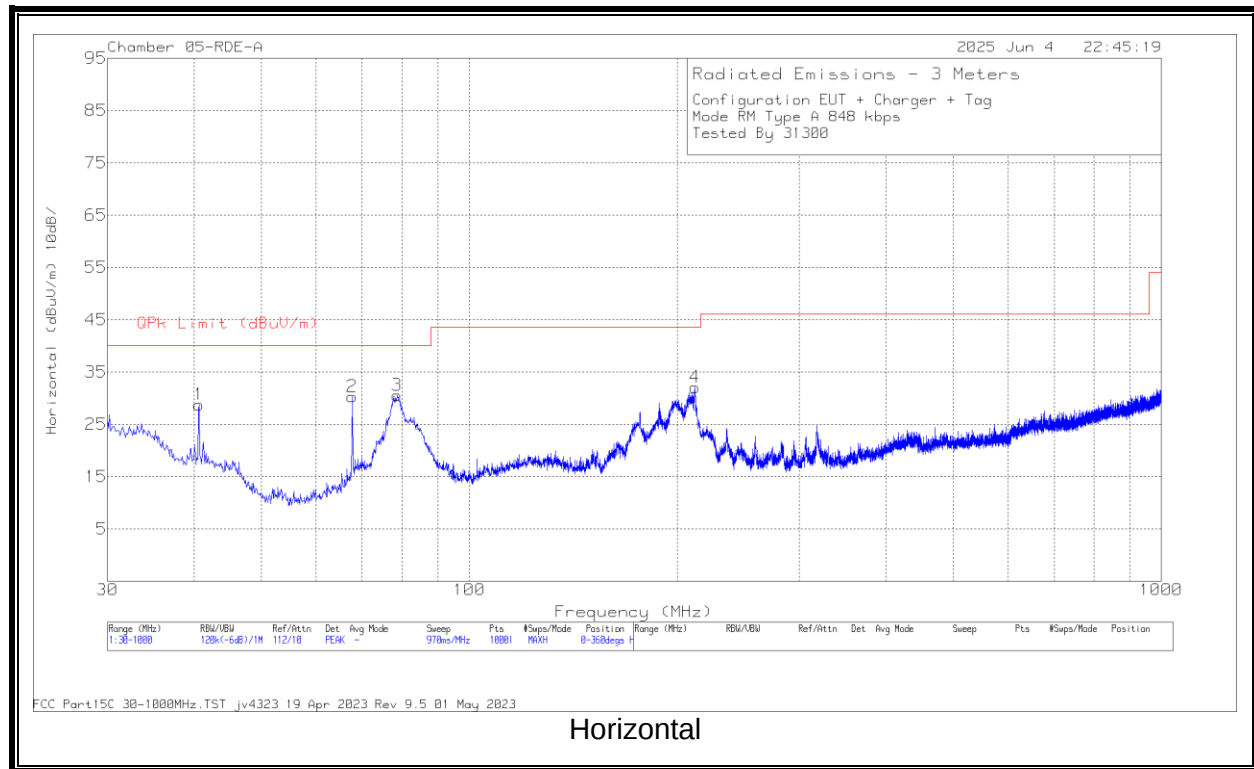
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80508 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	33.686	41.74	Pk	24.5	-32.5	33.74	40	-6.26	0-360	100	V
	33.5944	38.71	Qp	24.6	-32.5	30.81	40	-9.19	129	113	V
1	40.67	39.91	Pk	19.1	-32.8	26.21	40	-13.79	0-360	199	H
6	40.67	46.74	Pk	19.1	-32.8	33.04	40	-6.96	0-360	100	V
	40.6733	47.16	Qp	19.1	-32.8	33.46	40	-6.54	233	109	V
2	78.5	48.24	Pk	13.5	-32.3	29.44	40	-10.56	0-360	199	H
7	78.791	41.67	Pk	13.5	-32.2	22.97	40	-17.03	0-360	199	V
8	212.457	41.41	Pk	16.2	-31.4	26.21	43.52	-17.31	0-360	100	V
3	212.942	48.15	Pk	16.3	-31.6	32.85	43.52	-10.67	0-360	99	H
4	319.448	39.78	Pk	19.7	-31.1	28.38	46.02	-17.64	0-360	99	H

Pk - Peak detector

Qp - Quasi-Peak detector

8.3.3. Type A (TAG MODE), SPURIOUS EMISSION 848Kbps



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80508 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	33.395	41.11	Pk	24.7	-32.5	33.31	40	-6.69	0-360	100	V
	33.7174	35.4	Qp	24.5	-32.5	27.4	40	-12.6	358	103	V
6	40.573	50.39	Pk	19.1	-32.7	36.79	40	-3.21	0-360	100	V
	40.6805	49.77	Qp	19.1	-32.8	36.07	40	-3.93	234	108	V
1	40.67	42.45	Pk	19.1	-32.8	28.75	40	-11.25	0-360	400	H
2	67.733	48.37	Pk	14	-32.1	30.27	40	-9.73	0-360	199	H
7	67.733	46.96	Pk	14	-32.1	28.86	40	-11.14	0-360	100	V
3	78.597	49.24	Pk	13.5	-32.2	30.54	40	-9.46	0-360	199	H
8	211.584	41.33	Pk	16.2	-31.4	26.13	43.52	-17.39	0-360	100	V
4	211.778	47.14	Pk	16.2	-31.3	32.04	43.52	-11.48	0-360	99	H

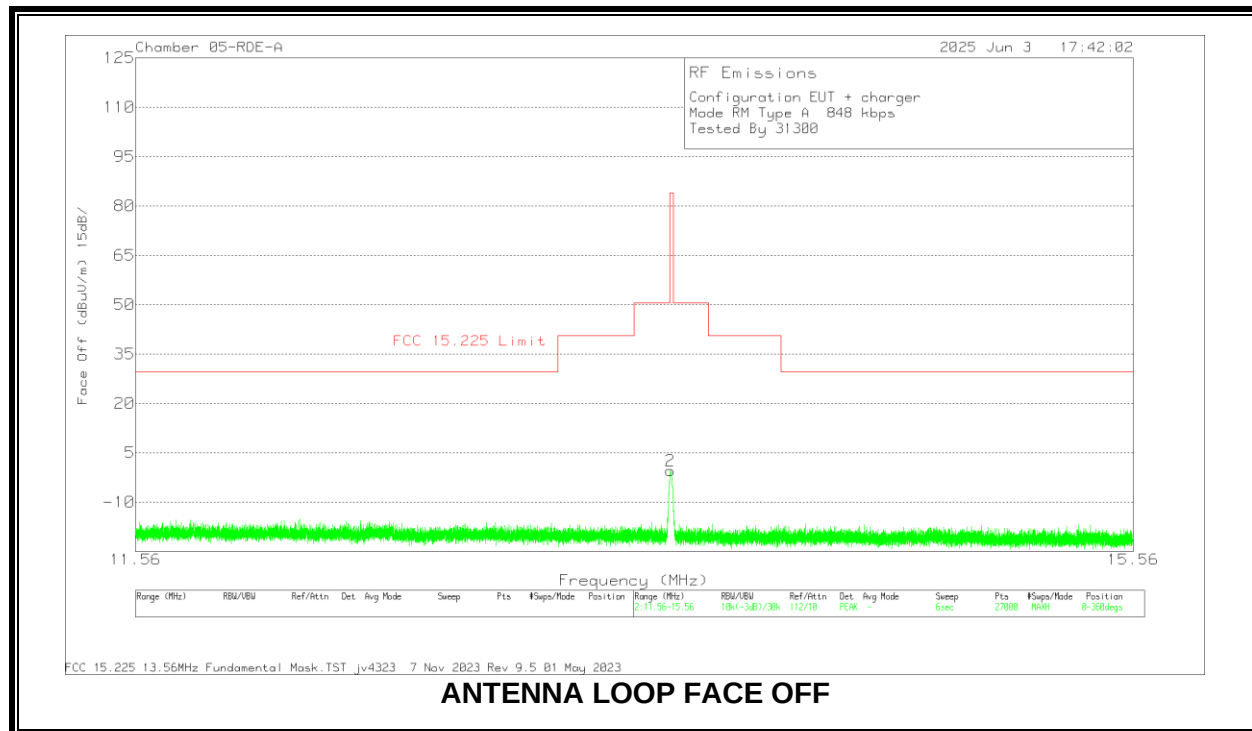
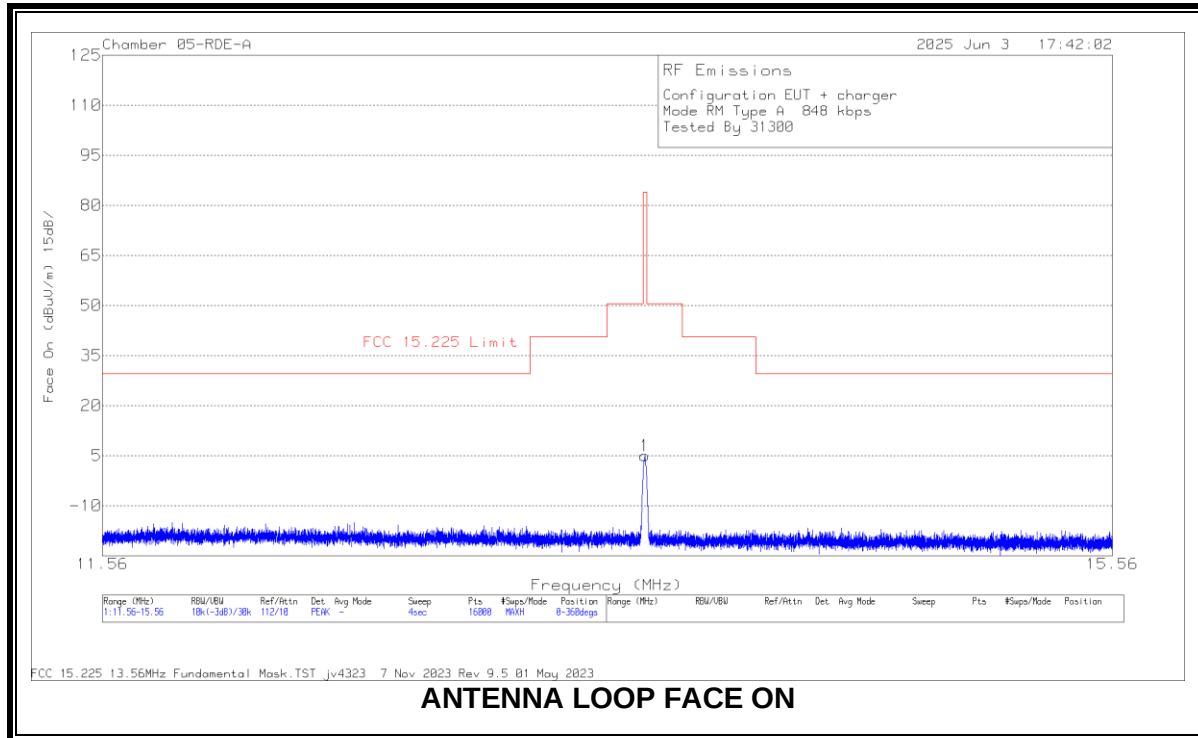
Pk - Peak detector

Qp - Quasi-Peak detector

8.4. SECONDARY ANTENNA FUNDAMENTAL AND SPURIOUS EMISSIONS (0.15 - 30 MHz), EUT WITH AC ADAPTER

8.4.1. READER MODE, Type A 848Kbps

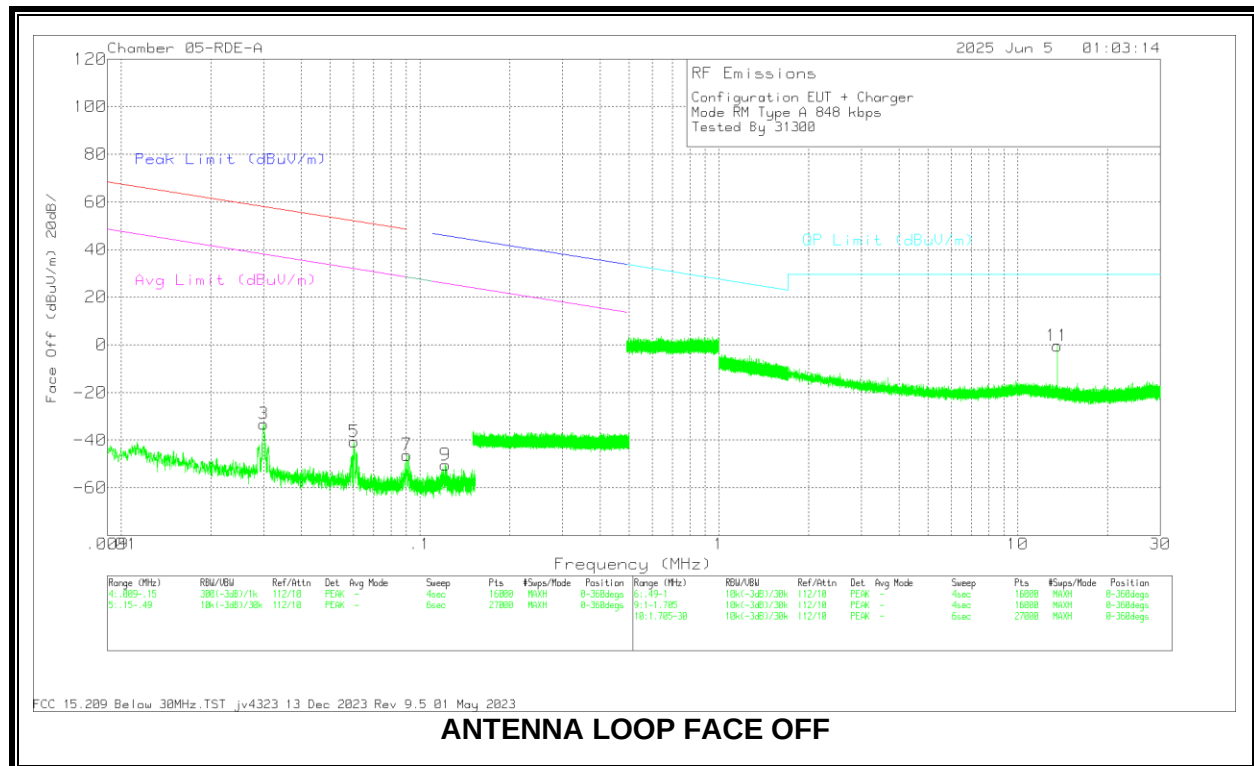
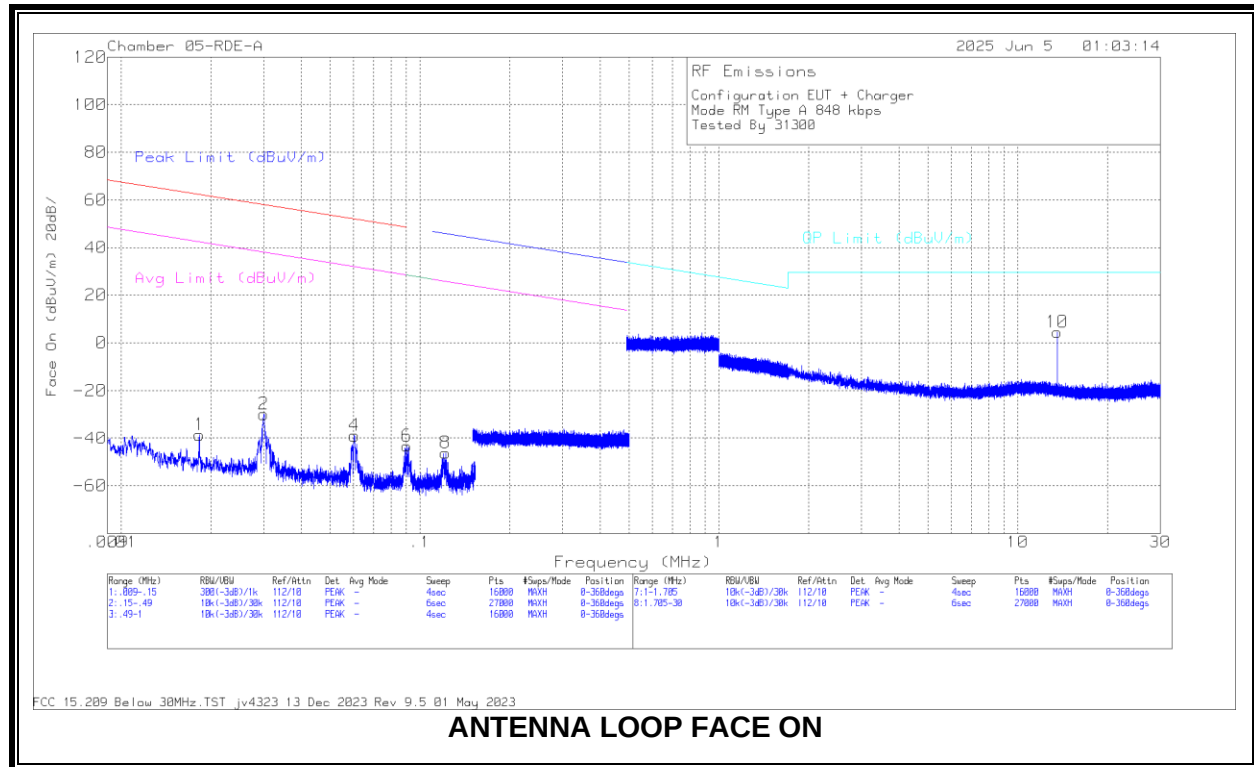
FUNDAMENTAL



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	FCC 15.225 Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Polarity
2	13.5565	38.47	Pk	34	-32.9	-40	-.43	84	-84.43	0-360	Face-Off
1	13.56	43.88	Pk	34	-32.9	-40	4.98	84	-79.02	0-360	Face-On

Pk - Peak detector

SPURIOUS EMISSION 848Kbps

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dBm)	Amp/Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.0183	15.08	Pk	59	-32.7	-80	-38.62	62.35	-101	42.35	-80.97	-	-	-	-	-	-	0-360	Face-On
2	.03	25.08	Pk	57.8	-32.8	-80	-29.92	58.04	-87.96	38.04	-67.96	-	-	-	-	-	-	0-360	Face-On
3	.03	21.78	Pk	57.8	-32.8	-80	-33.22	58.04	-91.26	38.04	-71.26	-	-	-	-	-	-	0-360	Face-Off
5	.0602	16.94	Pk	56	-33.5	-80	-40.66	51.99	-92.65	31.99	-72.65	-	-	-	-	-	-	0-360	Face-Off
4	.0603	18.58	Pk	56	-33.5	-80	-38.92	51.98	-90.9	31.98	-70.9	-	-	-	-	-	-	0-360	Face-On
7	.0904	11.06	Pk	55.6	-33	-80	-46.34	-	-	-	-	28.47	-74.81	-	-	-	-	0-360	Face-Off
6	.0905	14.12	Pk	55.6	-33	-80	-43.28	-	-	-	-	28.46	-71.74	-	-	-	-	0-360	Face-On
9	.1216	6.64	Pk	55.6	-32.7	-80	-50.46	-	-	-	-	-	-	45.93	-96.39	25.93	-76.39	0-360	Face-Off
8	.1217	10.93	Pk	55.6	-32.7	-80	-46.17	-	-	-	-	-	-	45.92	-92.09	25.92	-72.09	0-360	Face-On

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
*10	13.56	43.37	Pk	34	-32.9	-40	4.47	29.5	-25.03	0-360	Face-On
*11	13.56	38.49	Pk	34	-32.9	-40	-41	29.5	-29.91	0-360	Face-Off

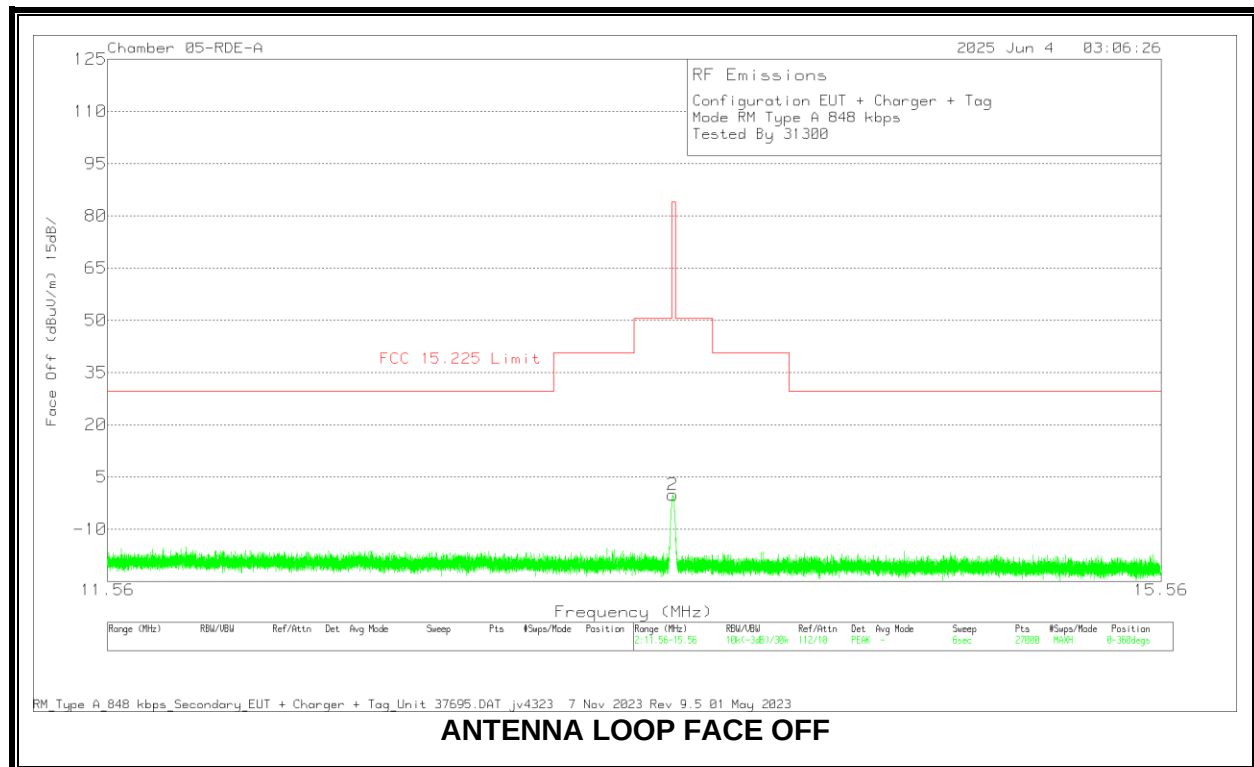
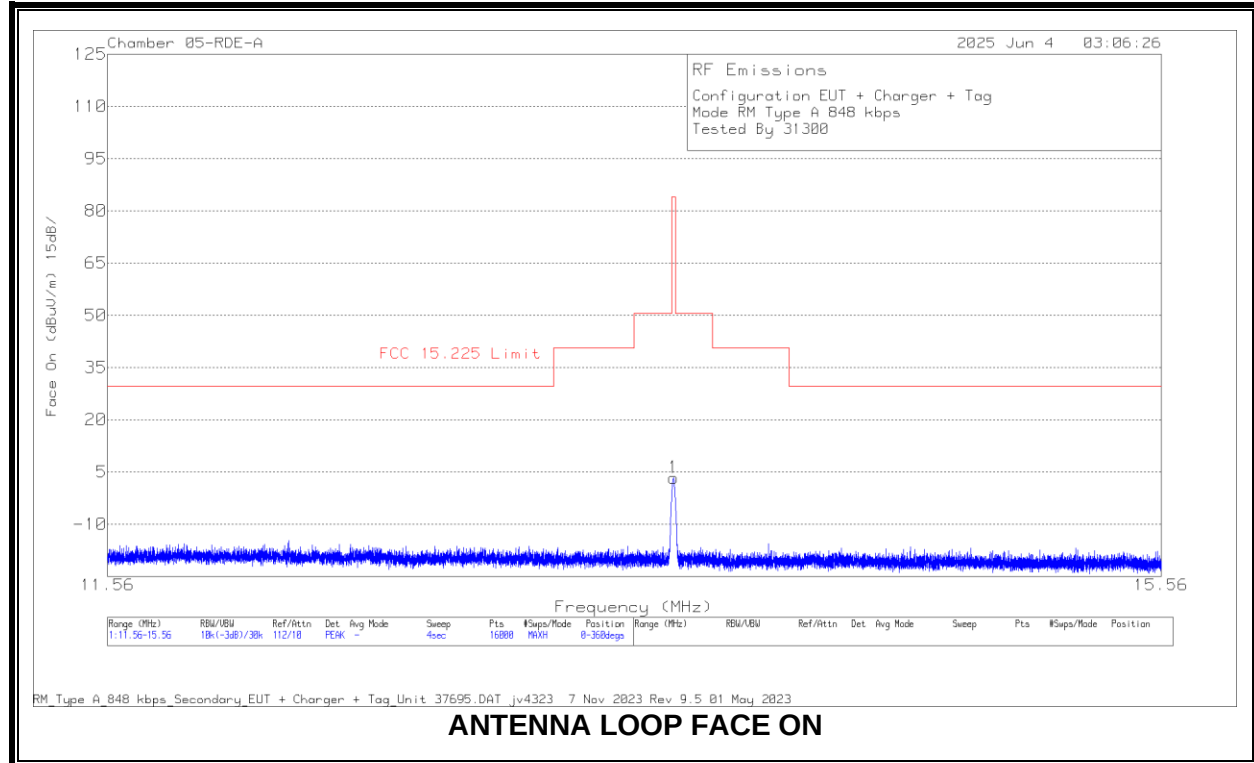
Pk - Peak detector

* = Fundamental frequency

Note: Marker 10 and 11 are fundamental signals.

8.4.2. TAG MODE, Type A 848Kbps

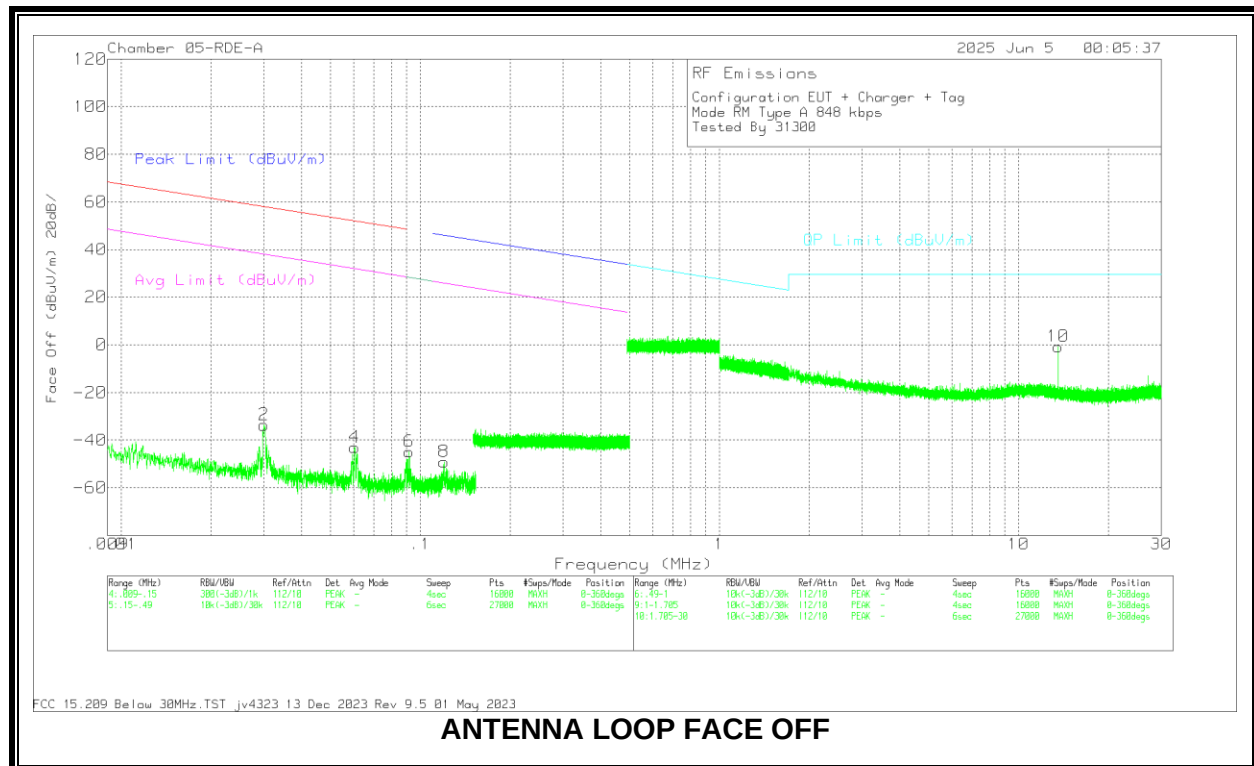
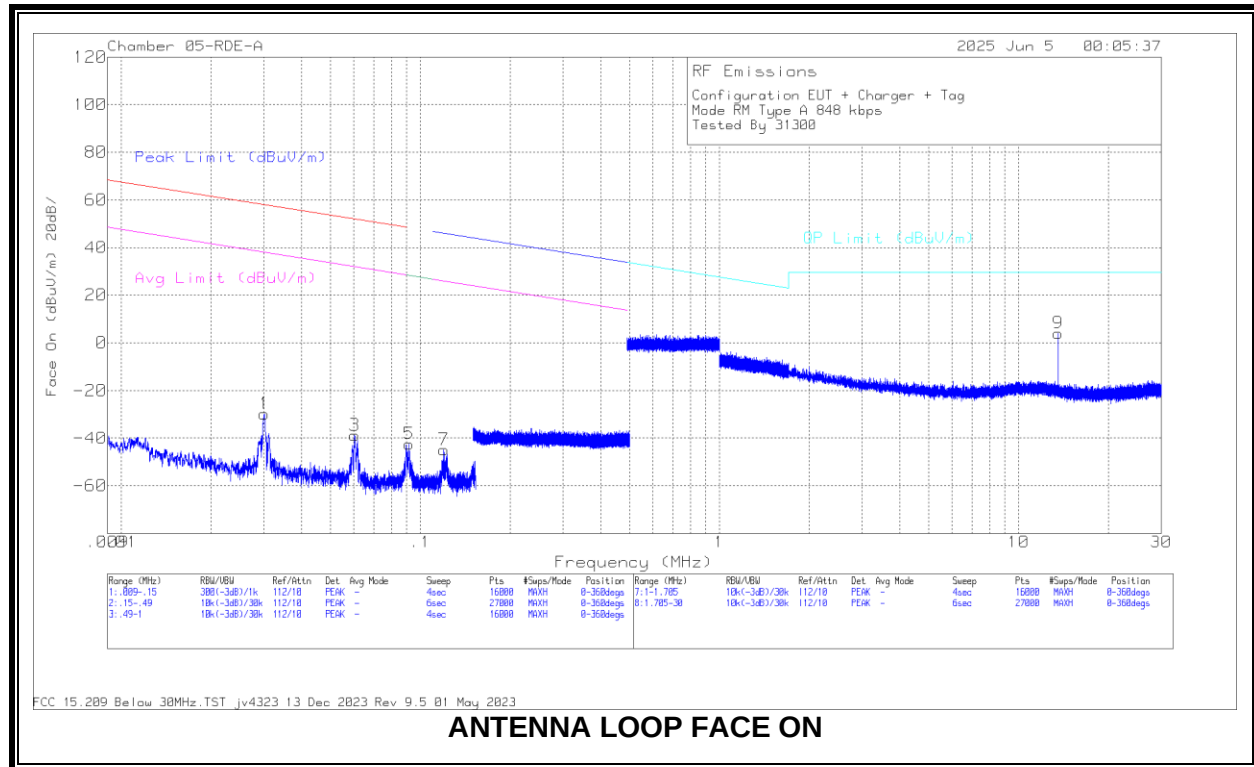
FUNDAMENTAL



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	FCC 15.225 Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Polarity
2	13.5574	38.77	Pk	34	-32.9	-40	-.13	84	-84.13	0-360	Face-Off
1	13.561	42.2	Pk	34	-32.9	-40	3.3	84	-80.7	0-360	Face-On

Pk - Peak detector

SPURIOUS EMISSION 848Kbps

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dBm)	Amp/Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
2	.03	21.39	Pk	57.8	-32.8	-80	-33.61	58.05	-91.66	38.05	-71.66	-	-	-	-	-	-	0-360	Face-Off
1	.0301	25.22	Pk	57.8	-32.8	-80	-29.78	58.02	-97.8	38.02	-67.8	-	-	-	-	-	-	0-360	Face-On
3	.0603	18.63	Pk	56	-33.5	-80	-38.87	51.98	-90.85	31.98	-70.85	-	-	-	-	-	-	0-360	Face-On
4	.0603	14.5	Pk	56	-33.5	-80	-43	51.98	-94.98	31.98	-74.98	-	-	-	-	-	-	0-360	Face-Off
5	.0916	14.97	Pk	55.6	-33	-80	-42.43	-	-	-	-	28.35	-70.78	-	-	-	-	0-360	Face-On
6	.0917	12.59	Pk	55.6	-33	-80	-44.81	-	-	-	-	28.34	-73.15	-	-	-	-	0-360	Face-Off
7	.1198	12.19	Pk	55.6	-32.7	-80	-44.91	-	-	-	-	-	-	46.06	-90.97	26.06	-70.97	0-360	Face-On
8	.12	8.02	Pk	55.6	-32.7	-80	-49.08	-	-	-	-	-	-	46.04	-95.12	26.04	-75.12	0-360	Face-Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dBm)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
*9	13.5589	42.94	Pk	34	-32.9	-40	4.04	29.5	-25.46	0-360	Face-On
*10	13.56	38.17	Pk	34	-32.9	-40	-73	29.5	-30.23	0-360	Face-Off

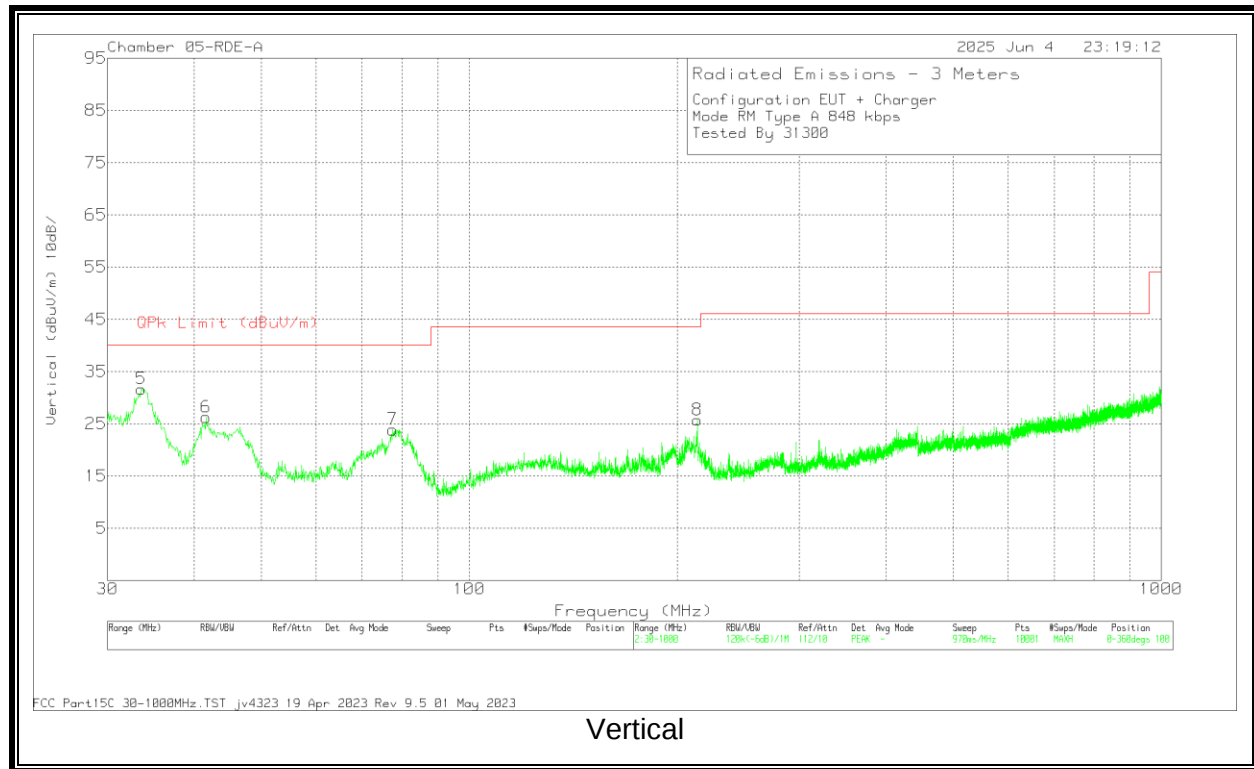
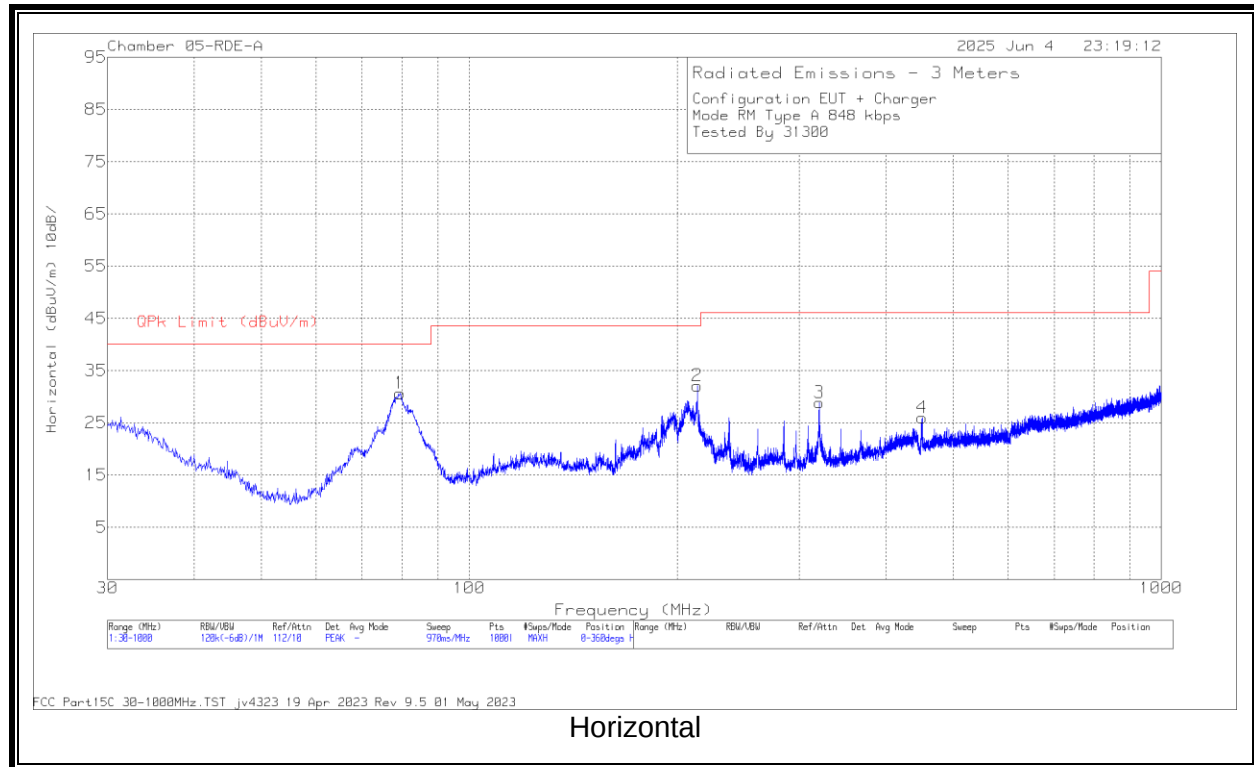
Pk - Peak detector

* = Fundamental frequency

Note: Marker 9 and 10 are fundamental signals.

8.5. TX SPURIOUS EMISSION 30 TO 1000 MHz, EUT WITH AC ADAPTER

8.5.1. Type A (READER MODE), SPURIOUS EMISSION 848Kbps

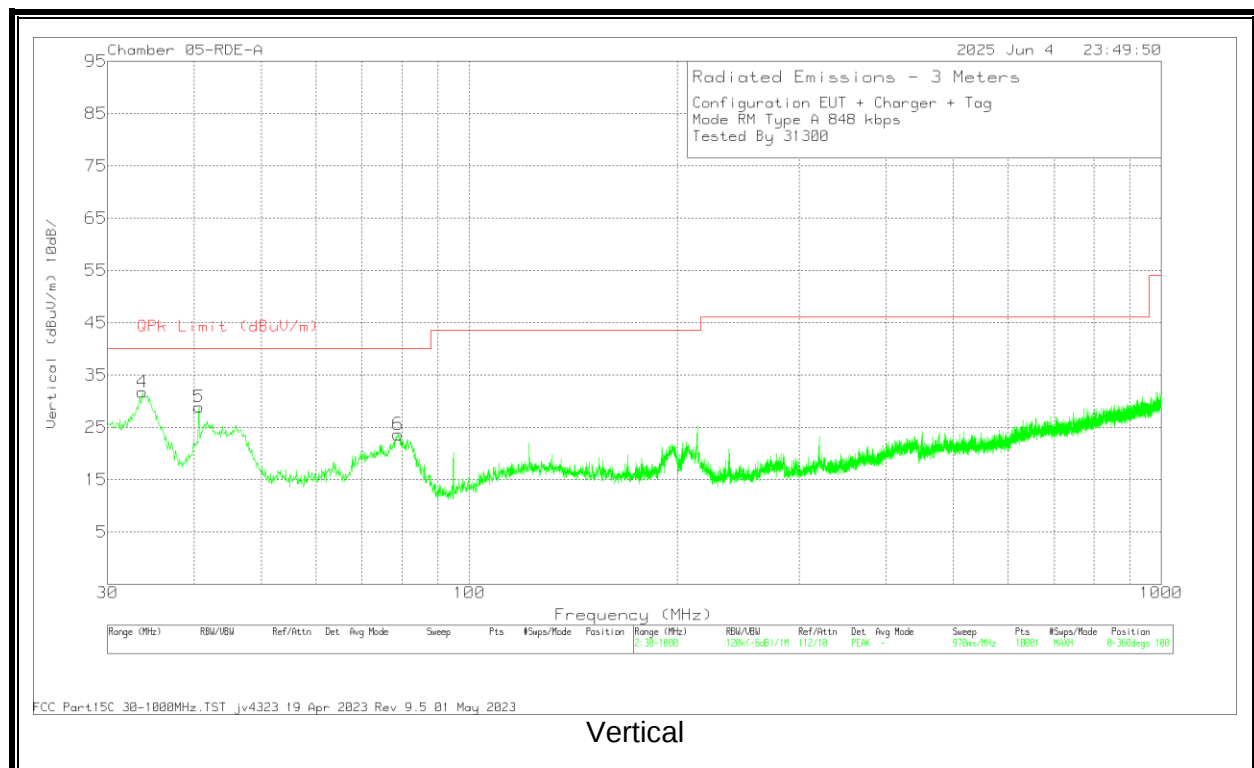
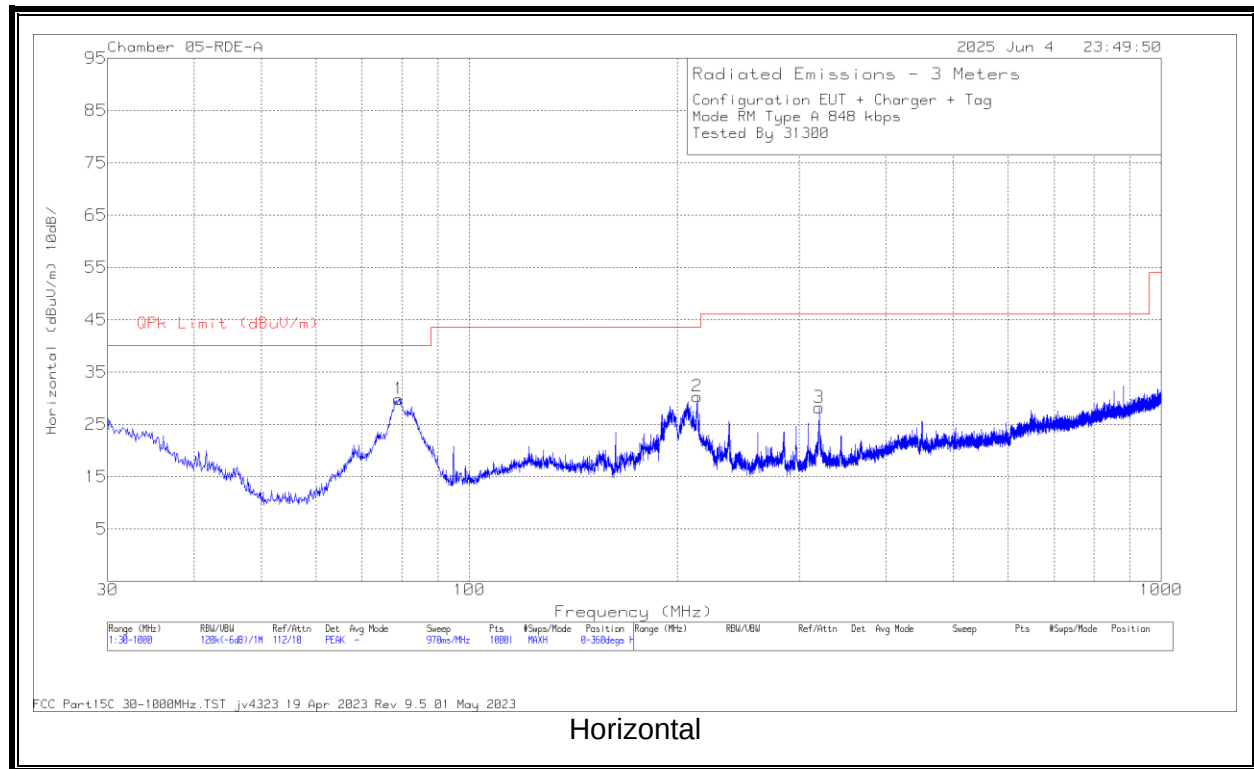


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80508 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	33.589	39.54	Pk	24.6	-32.5	31.64	40	-8.36	0-360	100	V
6	41.64	40.65	Pk	18.3	-32.7	26.25	40	-13.75	0-360	100	V
7	77.53	42.47	Pk	13.6	-32.2	23.87	40	-16.13	0-360	199	V
1	79.373	49.32	Pk	13.4	-32.1	30.62	40	-9.38	0-360	199	H
2	213.524	47.57	Pk	16.3	-31.8	32.07	43.52	-11.45	0-360	101	H
8	213.621	41.19	Pk	16.3	-31.8	25.69	43.52	-17.83	0-360	199	V
3	320.515	40.22	Pk	19.8	-31.2	28.82	46.02	-17.2	0-360	101	H
4	451.174	34.07	Pk	22.8	-30.9	25.97	46.02	-20.05	0-360	199	H

Pk - Peak detector

8.5.2. Type A (TAG MODE), SPURIOUS EMISSION 848Kbps



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80508 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	33.686	39.72	Pk	24.5	-32.5	31.72	40	-8.28	0-360	100	V
5	40.67	42.59	Pk	19.1	-32.8	28.89	40	-11.11	0-360	100	V
6	78.888	42.24	Pk	13.5	-32.1	23.64	40	-16.36	0-360	199	V
1	79.082	48.44	Pk	13.5	-32.1	29.84	40	-10.16	0-360	200	H
2	213.524	45.81	Pk	16.3	-31.8	30.31	43.52	-13.21	0-360	99	H
3	320.224	39.7	Pk	19.8	-31.3	28.2	46.02	-17.82	0-360	99	H

Pk - Peak detector

9. FREQUENCY STABILITY

LIMIT

§15.225 (e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency, over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

IC RSS-210, Annex B.6

Carrier frequency stability shall be maintained to $\pm 0.01\%$ (± 100 ppm).

TEST PROCEDURE

ANSI C63.10-2020 Clause 6.8

RESULTS

No non-compliance noted.

ID:	33329 SC	Date:	6-16-2025 to 6-18-2025
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9.1. PRIMARY ANTENNA

READER MODE, TYPE A 848Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C										
Limit: ± 100 ppm = 1.356 KHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(VAC)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.56015475	-14.259	13.56002798	-4.910	13.56003314	-5.291	13.56003596	-5.499	± 100
	40	13.56021736	-18.876	13.56002779	-4.896	13.56002955	-5.026	13.56003015	-5.070	± 100
	30	13.56002227	-4.489	13.56002109	-4.402	13.5600181	-4.182	13.56001492	-3.947	± 100
	20	13.5599614	0.000	13.55996517	-0.278	13.5599672	-0.428	13.55996847	-0.522	± 100
	10	13.55993971	1.599	13.55995152	0.728	13.55995414	0.536	13.55995316	0.608	± 100
	0	13.55990493	4.164	13.55991545	3.389	13.55991591	3.354	13.55991557	3.379	± 100
	-10	13.5598772	6.209	13.55988487	5.644	13.55988415	5.697	13.55988215	5.844	± 100
	-20	13.55985147	8.106	13.55985611	7.765	13.55985764	7.652	13.5598575	7.662	± 100
3.23	20	13.55991513	3.412	13.55992538	2.656	13.55992761	2.492	13.55993973	1.598	± 100
4.37	20	13.55992895	2.393	13.55993786	1.736	13.5599395	1.615	13.55994359	1.313	± 100

CE MODE, TYPE A 848Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C										
Limit: ± 100 ppm = 1.35600 KHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(VAC)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.56032806	9.309	13.56043011	1.783	13.56047217	-1.319	13.56047102	-1.234	± 100
	40	13.56045495	-0.049	13.5605718	-8.666	13.56031072	10.587	13.56097217	-38.192	± 100
	30	13.56050812	-3.970	13.5602926	11.924	13.56030421	11.068	13.56099472	-39.855	± 100
	20	13.56045429	0.000	13.56023714	16.013	13.56059065	-10.057	13.56041232	3.095	± 100
	10	13.56029509	11.740	13.56017489	20.605	13.56045915	-0.359	13.56043644	1.316	± 100
	0	13.5603034	11.128	13.56001027	32.744	13.56043554	1.383	13.56028572	12.431	± 100
	-10	13.56044281	0.847	13.56037323	5.978	13.56043495	1.426	13.56040571	3.583	± 100
	-20	13.56060481	-11.100	13.56021564	17.599	13.56054777	-6.894	13.56027273	13.389	± 100
3.23	20	13.56021535	17.621	13.56035527	7.302	13.56065902	-15.098	13.56021065	17.967	± 100
4.37	20	13.56042635	2.060	13.56021208	17.862	13.56040514	3.624	13.56019591	19.054	± 100

TAG MODE, TYPE A 848Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C										
Limit: ± 100 ppm = 1.35600 KHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(VAC)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.56002151	-4.766	13.56002867	-5.294	13.56003178	-5.523	13.56003556	-5.802	± 100
	40	13.56002038	-4.683	13.56002611	-5.105	13.56003046	-5.426	13.56003272	-5.593	± 100
	30	13.56002158	-4.771	13.56002612	-5.106	13.56002791	-5.238	13.56002838	-5.273	± 100
	20	13.55995688	0.000	13.55997349	-1.224	13.55997671	-1.462	13.55998473	-2.054	± 100
	10	13.55997434	-1.287	13.55998229	-1.873	13.5599841	-2.007	13.55998407	-2.005	± 100
	0	13.55995421	0.197	13.55996073	-0.284	13.55996188	-0.369	13.55996325	-0.469	± 100
	-10	13.55992802	2.129	13.55993324	1.743	13.55993276	1.779	13.55993201	1.834	± 100
	-20	13.55989989	4.203	13.55990174	4.067	13.55990294	3.978	13.55989791	4.349	± 100
3.23	20	13.55996957	-0.936	13.5599745	-1.299	13.55997762	-1.529	13.55983237	9.182	± 100
4.37	20	13.5599801	-1.712	13.55998733	-2.245	13.55998908	-2.374	13.55999552	-2.849	± 100

9.2. SECONDARY ANTENNA

READER MODE, TYPE A 848Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C										
Limit: ± 100 ppm = 1.356 KHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(VAC)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.56002927	-5.741	13.56004996	-7.266	13.56005186	-7.407	13.56005284	-7.479	± 100
	40	13.56001033	-4.344	13.56001135	-4.419	13.56001136	-4.420	13.56002432	-5.376	± 100
	30	13.56000951	-4.284	13.56000891	-4.239	13.56000898	-4.244	13.56000892	-4.240	± 100
	20	13.55995143	0.000	13.55996551	-1.039	13.55996643	-1.107	13.55997198	-1.515	± 100
	10	13.55993323	1.342	13.55994187	0.704	13.55994003	0.840	13.55993999	0.843	± 100
	0	13.55992345	2.063	13.55992765	1.753	13.55992345	2.063	13.55992889	1.662	± 100
	-10	13.55989481	4.176	13.55989961	3.821	13.55989767	3.964	13.55989478	4.178	± 100
	-20	13.55984044	8.185	13.55984512	7.839	13.55984631	7.752	13.55985598	7.039	± 100
3.23	20	13.55997098	-1.442	13.55997155	-1.484	13.55997224	-1.535	13.55997256	-1.559	± 100
4.37	20	13.55997389	-1.656	13.55997413	-1.674	13.55997439	-1.693	13.55997451	-1.702	± 100

TAG MODE, TYPE A 848Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C										
Limit: ± 100 ppm = 1.356 KHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(VAC)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.56002725	-3.772	13.5600417	-4.838	13.56004932	-5.400	13.56005195	-5.594	± 100
	40	13.56004263	-4.907	13.56005008	-5.456	13.56005178	-5.582	13.56052882	-40.762	± 100
	30	13.56004189	-4.852	13.56004804	-5.305	13.56004934	-5.401	13.56004939	-5.406	± 100
	20	13.55997609	0.000	13.55997947	-0.249	13.55999782	-1.602	13.56000235	-1.936	± 100
	10	13.56004415	-5.019	13.56004087	-4.777	13.56003797	-4.563	13.56003715	-4.503	± 100
	0	13.56002639	-3.709	13.5600195	-3.201	13.56001277	-2.705	13.56001301	-2.722	± 100
	-10	13.55995508	1.550	13.55999421	-1.336	13.55998678	-0.788	13.55997788	-0.132	± 100
	-20	13.55993517	3.018	13.55993311	3.170	13.5599302	3.385	13.55992982	3.413	± 100
3.23	20	13.55992447	3.807	13.55993418	3.091	13.55995336	1.676	13.5599553	1.533	± 100
4.37	20	13.55995997	1.189	13.56018456	-15.374	13.5600854	-8.061	13.56002078	-3.295	± 100

10. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207

IC RSS-GEN, Section 8.8

(a) Except as shown in paragraphs (b) and (c) of this section, for 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). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Notes: 1. The lower limit shall apply at the transition frequencies 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

TEST PROCEDURE

ANSI C63.10:2020

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.

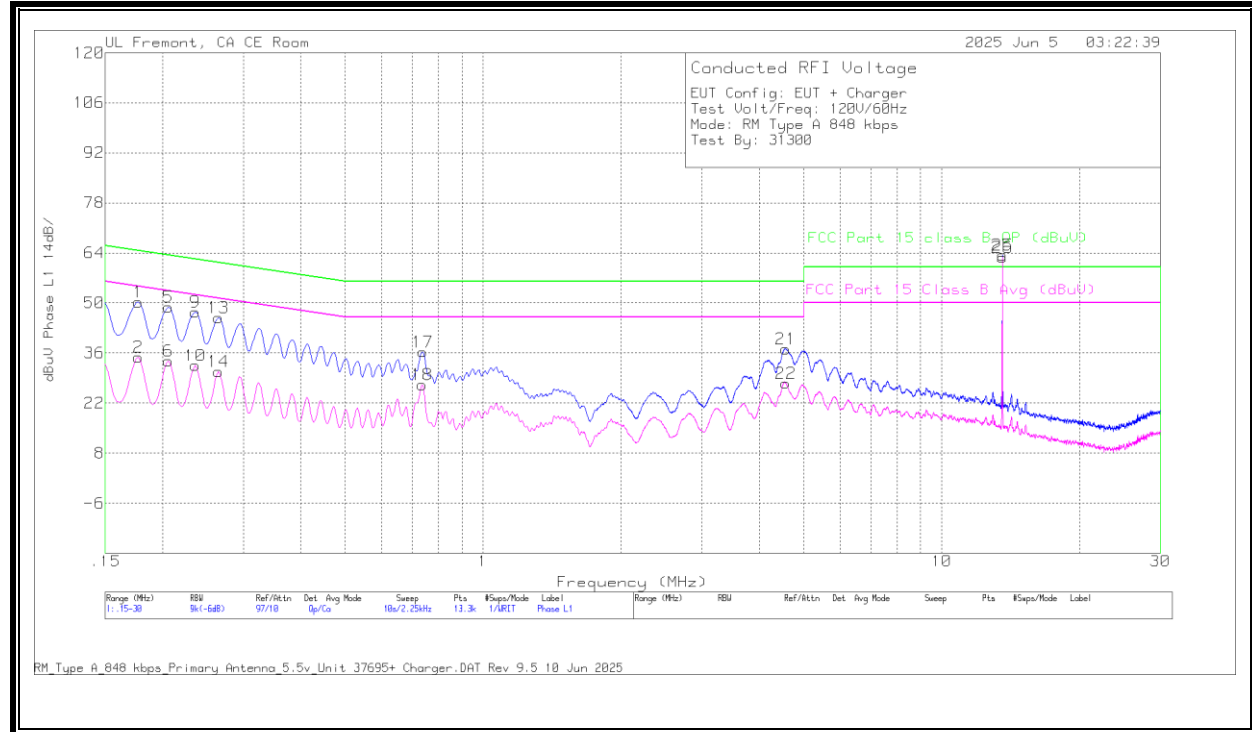
RESULTS

10.1. PRIMARY ANTENNA

10.1.1. READER MODE: Type A, 848 Kbps

NORMAL OPERATION with charger and not terminated, 848kbps

LINE 1 RESULTS



DATA

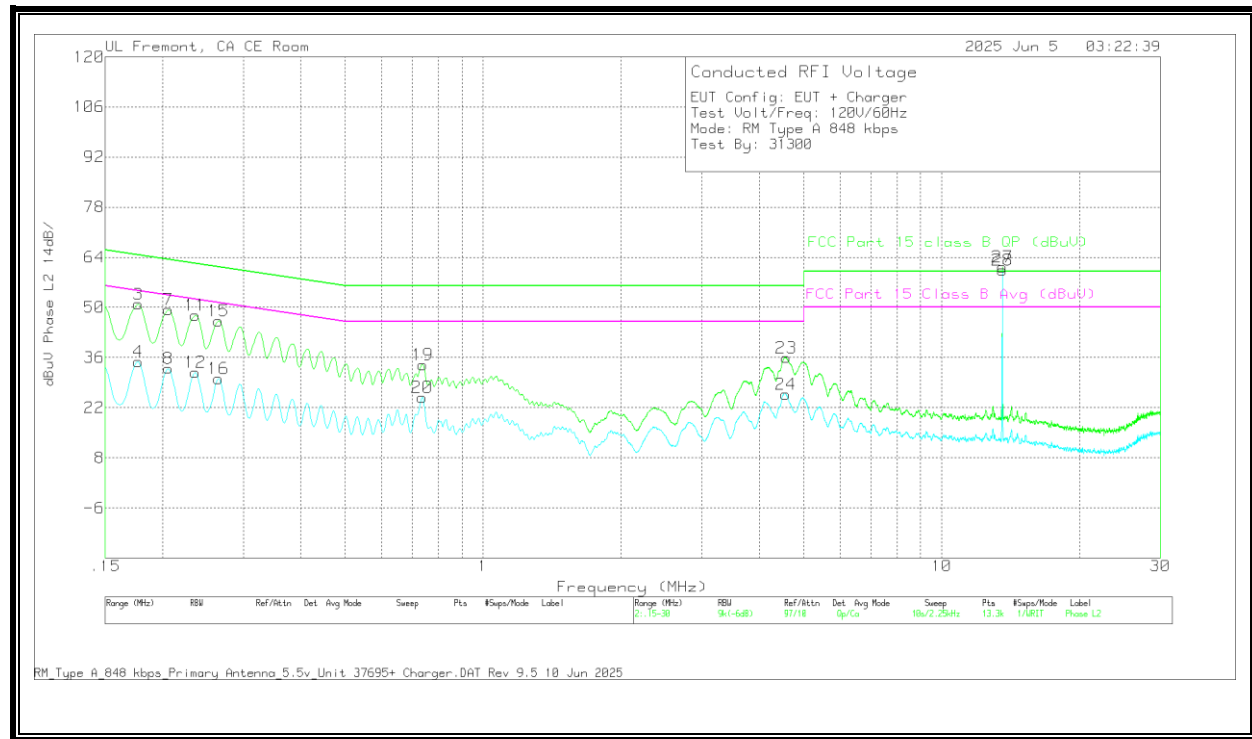
Range 1: Phase L1 15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.177	16.08	Ca	.3	.1	8.4	10	34.88	54.63	-19.75	-	-
6	.2063	15.26	Ca	.1	0	8.4	10	33.76	53.35	-19.59	-	-
10	.2355	14.18	Ca	0	0	8.3	10	32.48	52.25	-19.77	-	-
14	.2648	12.75	Ca	-.1	0	8.1	10	30.75	51.28	-20.53	-	-
18	.7373	8.54	Ca	.1	0	8.5	10	27.14	46	-18.86	-	-
22	4.5758	8.96	Ca	.1	0	8.5	10	27.56	46	-18.44	-	-
26	*13.56	44.28	Ca	.2	.1	8.2	10	62.78	50	12.78	-	-
1	.177	31.47	Qp	.3	.1	8.4	10	50.27	-	-	64.63	-14.36
5	.2063	30.37	Qp	.1	0	8.4	10	48.87	-	-	63.35	-14.48
9	.2355	29.23	Qp	0	0	8.3	10	47.53	-	-	62.25	-14.72
13	.2648	27.83	Qp	-.1	0	8.1	10	45.83	-	-	61.28	-15.45
17	.7395	17.72	Qp	.1	0	8.5	10	36.32	-	-	56	-19.68
21	4.5758	18.5	Qp	.1	0	8.5	10	37.1	-	-	56	-18.9
25	*13.56	44.94	Qp	.2	.1	8.2	10	63.44	-	-	60	3.44

Qp - Quasi-Peak detector

Av - Average detection

* Fundamental

Note: 13.56 MHz is the fundamental frequency of the EUT. Data under the following section indicates that when the antenna port is terminated, the fundamental amplitude is lowered below the limit line.

LINE 2 RESULTS**DATA**

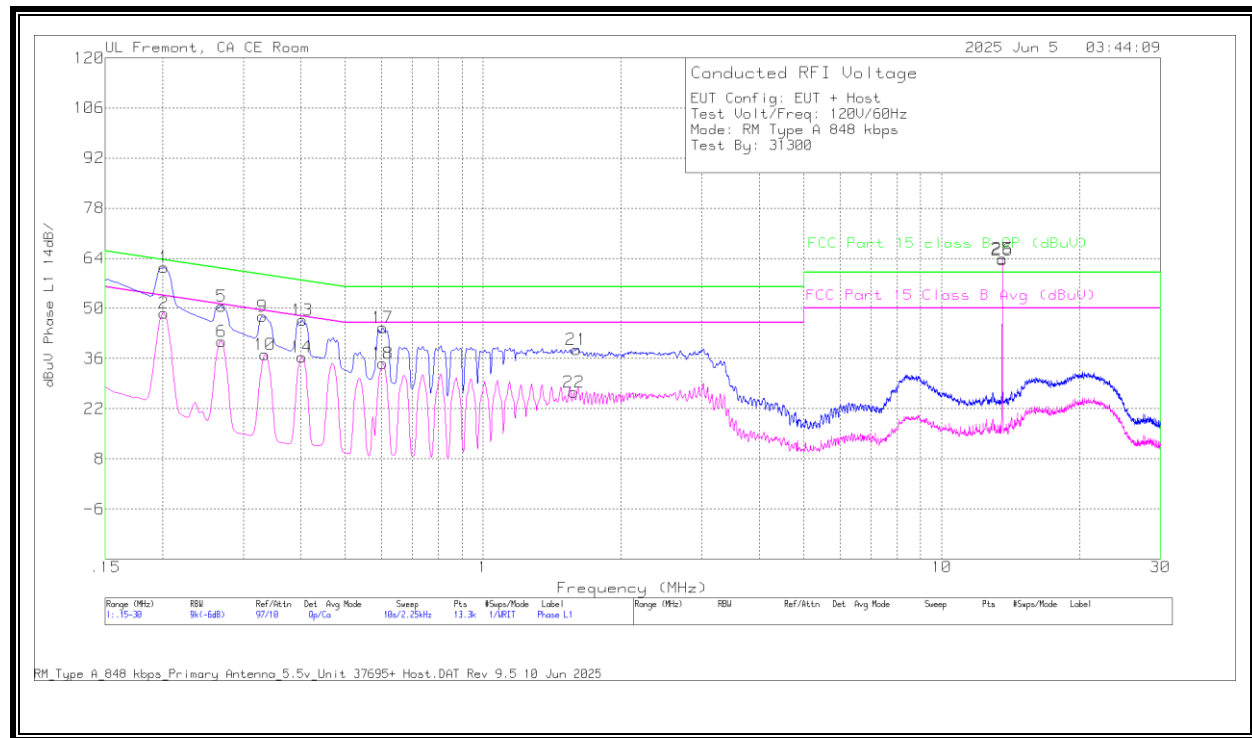
Range 2: Phase L2 15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
4	.177	16.2	Ca	.3	0	8.4	10	34.9	54.63	-19.73	-	-
8	.2063	14.49	Ca	.1	0	8.4	10	32.99	53.35	-20.36	-	-
12	.2355	13.6	Ca	0	0	8.3	10	31.9	52.25	-20.35	-	-
16	.2648	12.16	Ca	-.1	0	8.1	10	30.16	51.28	-21.12	-	-
20	.7373	6.28	Ca	.1	0	8.5	10	24.88	46	-21.12	-	-
24	4.5758	7.19	Ca	.1	0	8.5	10	25.79	46	-20.21	-	-
28	*13.56	41.98	Ca	.2	.1	8.2	10	60.48	50	10.48	-	-
3	.177	32.19	Qp	.3	0	8.4	10	50.89	-	-	64.63	-13.74
7	.2063	30.87	Qp	.1	0	8.4	10	49.37	-	-	63.35	-13.98
11	.2355	29.53	Qp	0	0	8.3	10	47.83	-	-	62.25	-14.42
15	.2648	28.22	Qp	-.1	0	8.1	10	46.22	-	-	61.28	-15.06
19	.7395	15.41	Qp	.1	0	8.5	10	34.01	-	-	56	-21.99
23	4.578	17.37	Qp	.1	0	8.5	10	35.97	-	-	56	-20.03
27	*13.56	42.84	Qp	.2	.1	8.2	10	61.34	-	-	60	1.34

Qp - Quasi-Peak detector

Av - Average detection

* Fundamental

Note: 13.56 MHz is the fundamental frequency of the EUT. Data under the following section indicates that when the antenna port is terminated, the fundamental amplitude is lowered below the limit line.

NORMAL OPERATION with Host and not terminated, 848Kbps**LINE 1 RESULTS****DATA**

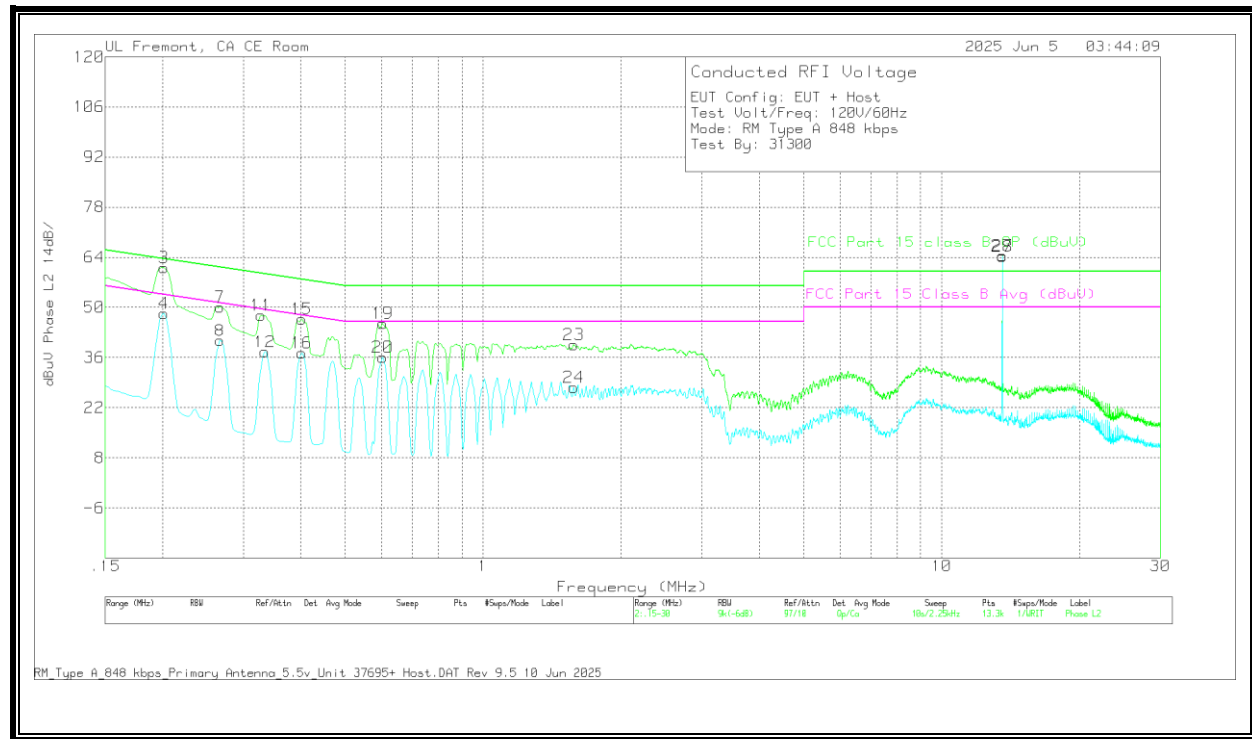
Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.2018	30.18	Ca	.1	0	8.4	10	48.68	53.54	-4.86	-	-
6	.2693	22.81	Ca	-.1	0	8.1	10	40.81	51.14	-10.33	-	-
10	.3345	19.19	Ca	-.3	0	8.3	10	37.19	49.34	-12.15	-	-
14	.402	18.66	Ca	-.5	0	8.3	10	36.46	47.81	-11.35	-	-
18	.6045	16.63	Ca	-.1	0	8.2	10	34.73	46	-11.27	-	-
22	1.5788	8	Ca	.1	0	8.5	10	26.6	46	-19.4	-	-
26	*13.56	45.11	Ca	.2	.1	8.2	10	63.61	50	13.61	-	-
1	.2018	42.96	Qp	.1	0	8.4	10	61.46	-	-	63.54	-2.08
5	.2693	32.57	Qp	-.1	0	8.1	10	50.57	-	-	61.14	-10.57
9	.33	29.85	Qp	-.2	0	8.2	10	47.85	-	-	59.45	-11.6
13	.4043	28.71	Qp	-.4	0	8.4	10	46.71	-	-	57.77	-11.06
17	.6045	26.54	Qp	-.1	0	8.2	10	44.64	-	-	56	-11.36
21	1.599	19.83	Qp	.1	0	8.6	10	38.53	-	-	56	-17.47
25	*13.56	45.42	Qp	.2	.1	8.2	10	63.92	-	-	60	3.92

Qp - Quasi-Peak detector

Av - Average detection

* Fundamental

Note: 13.56 MHz is the fundamental frequency of the EUT. Data under the following section indicates that when the antenna port is terminated, the fundamental amplitude is lowered below the limit line.

LINE 2 RESULTS**DATA**

Range 2: Phase L2 .15 - 30MHz												
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)
4	.2018	29.87	Ca	.1	0	8.4	10	48.37	53.54	-5.17	-	-
8	.267	22.72	Ca	-.1	0	8.1	10	40.72	51.21	-10.49	-	-
12	.3345	19.57	Ca	-.3	0	8.3	10	37.57	49.34	-11.77	-	-
16	.402	19.46	Ca	-.5	0	8.3	10	37.26	47.81	-10.55	-	-
20	.6045	17.9	Ca	-.1	0	8.2	10	36	46	-10	-	-
24	1.5765	9.04	Ca	.1	0	8.5	10	27.64	46	-18.36	-	-
28	*13.56	45.7	Ca	.2	.1	8.2	10	64.2	50	14.2	-	-
3	.2018	42.57	Qp	.1	0	8.4	10	61.07	-	-	63.54	-2.47
7	.267	32.13	Qp	-.1	0	8.1	10	50.13	-	-	61.21	-11.08
11	.3278	29.77	Qp	-.2	0	8.2	10	47.77	-	-	59.51	-11.74
15	.402	28.94	Qp	-.5	0	8.3	10	46.74	-	-	57.81	-11.07
19	.6045	27.41	Qp	-.1	0	8.2	10	45.51	-	-	56	-10.49
23	1.5765	20.99	Qp	.1	0	8.5	10	39.59	-	-	56	-16.41
27	*13.56	46	Qp	.2	.1	8.2	10	64.5	-	-	60	4.5

Qp - Quasi-Peak detector

Av - Average detection

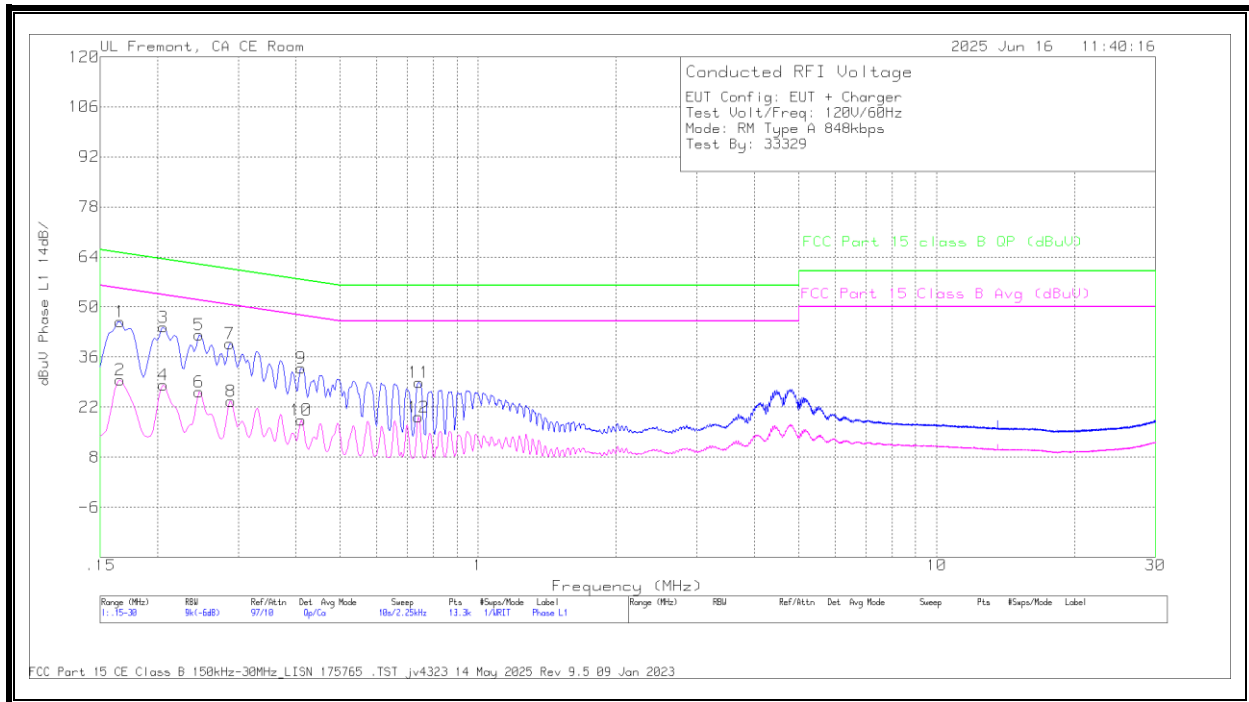
* Fundamental

Note: 13.56 MHz is the fundamental frequency of the EUT. Data under the following section indicates that when the antenna port is terminated, the fundamental amplitude is lowered below the limit line.

10.1.2. READER MODE: Type A, 848 Kbps (ANTENNA PORT TERMINATED)

NORMAL OPERATION with charger and terminated, 848kbps

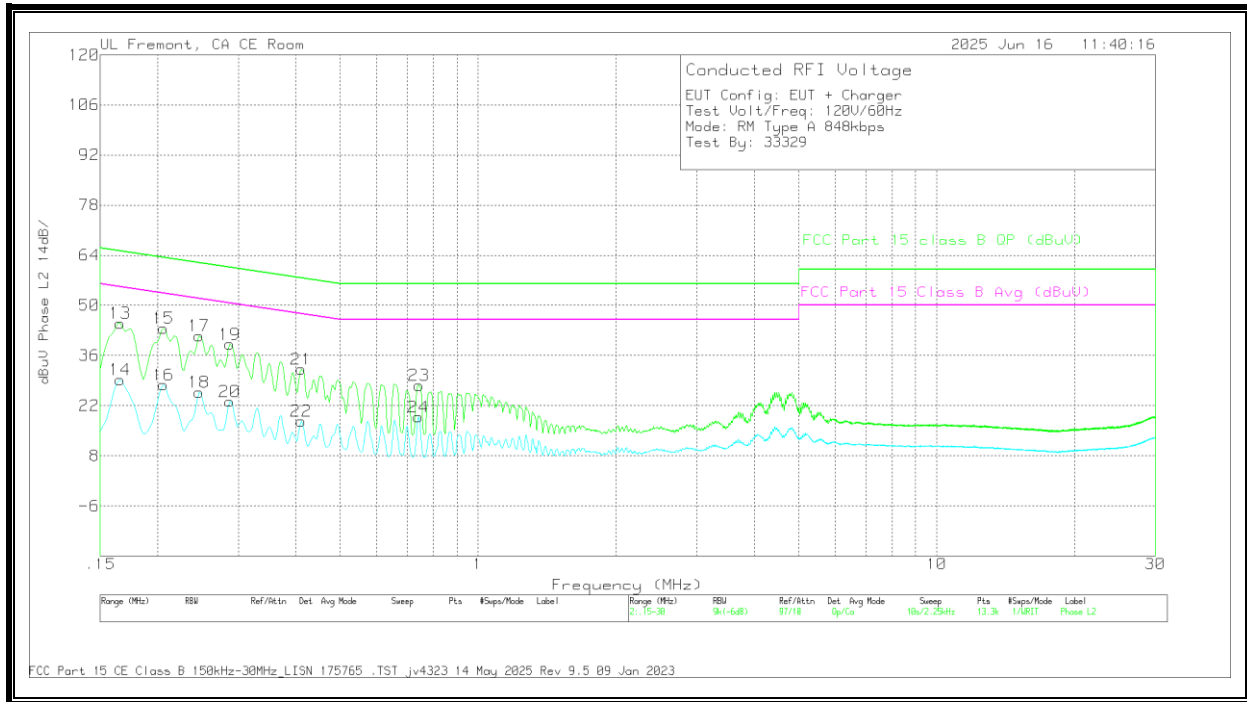
LINE 1 RESULTS



DATA

Range 1: Phase L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 1 C3_C1_Limiter no Pad_UL (dB)	LISN (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	.1658	10.13	Ca	9.4	.1	10	29.63	55.17	-25.54	-	-
4	.2063	8.73	Ca	9.4	0	10	28.13	53.35	-25.22	-	-
6	.2468	6.79	Ca	9.4	0	10	26.19	51.87	-25.68	-	-
8	.2895	4.22	Ca	9.4	0	10	23.62	50.54	-26.92	-	-
10	.411	-1.02	Ca	9.4	0	10	18.38	47.63	-29.25	-	-
12	.7418	-2.4	Ca	9.4	0	10	19.16	46	-26.84	-	-
1	.1658	26.41	Qp	9.4	.1	10	45.91	-	-	65.17	-19.26
3	.2063	24.98	Qp	9.4	0	10	44.38	-	-	63.35	-18.97
5	.2468	22.8	Qp	9.4	0	10	42.2	-	-	61.87	-19.67
7	.2873	20.36	Qp	9.4	0	10	39.76	-	-	60.6	-20.84
9	.411	13.49	Qp	9.4	0	10	32.89	-	-	57.63	-24.74
11	.744	9.55	Qp	9.3	0	10	28.85	-	-	56	-27.15

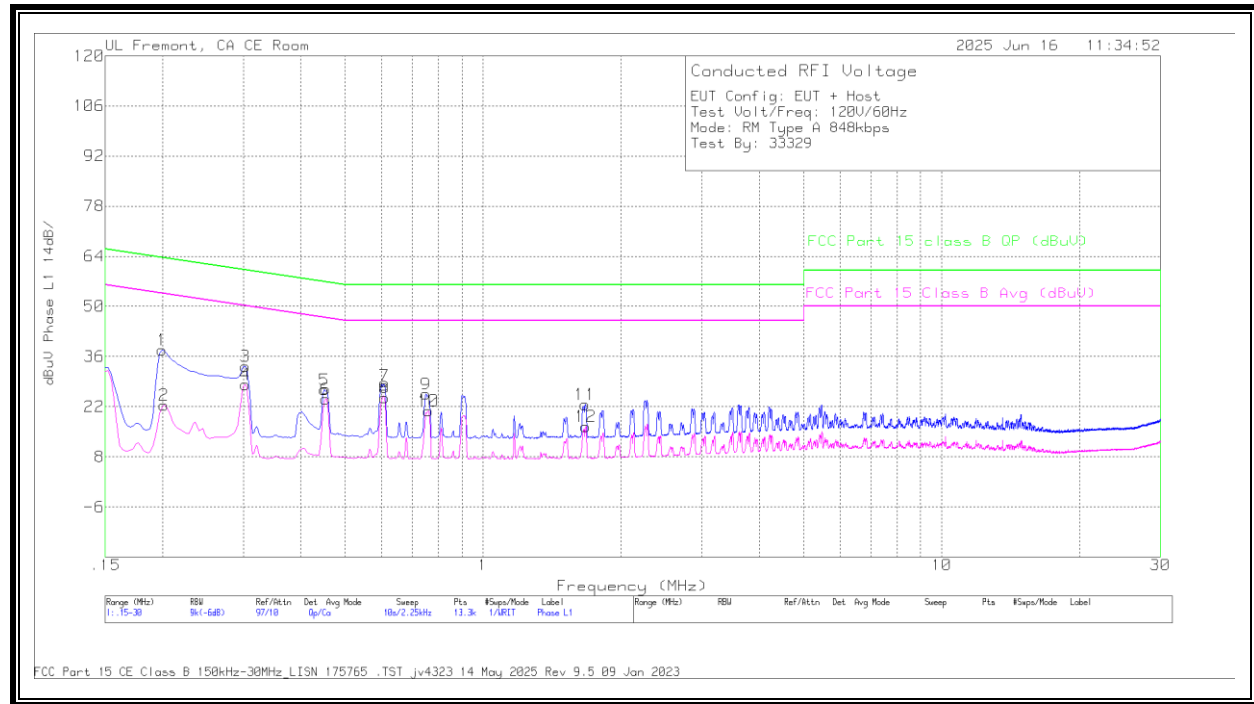
Qp - Quasi-Peak detector
Av - Average detection

LINE 2 RESULTS**DATA**

Range 2: Phase L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 2 C3_C2_Limit er no Pad_UL (dB)	LISN (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	.1658	9.74	Ca	9.4	.1	10	29.24	55.17	-25.93	-	-
16	.2063	8.36	Ca	9.4	0	10	27.76	53.35	-25.59	-	-
18	.2468	6.35	Ca	9.4	0	10	25.75	51.87	-26.12	-	-
20	.2873	3.78	Ca	9.4	0	10	23.18	50.6	-27.42	-	-
22	.411	-1.6	Ca	9.3	0	10	17.7	47.63	-29.93	-	-
24	.7418	-4.9	Ca	9.3	0	10	18.81	46	-27.19	-	-
13	.1658	25.56	Qp	9.4	.1	10	45.06	-	-	65.17	-20.11
15	.2063	24.25	Qp	9.4	0	10	43.65	-	-	63.35	-19.7
17	.2468	22.12	Qp	9.4	0	10	41.52	-	-	61.87	-20.35
19	.2873	19.73	Qp	9.4	0	10	39.13	-	-	60.6	-21.47
21	.411	12.83	Qp	9.3	0	10	32.13	-	-	57.63	-25.5
23	.744	8.36	Qp	9.3	0	10	27.66	-	-	56	-28.34

Qp - Quasi-Peak detector

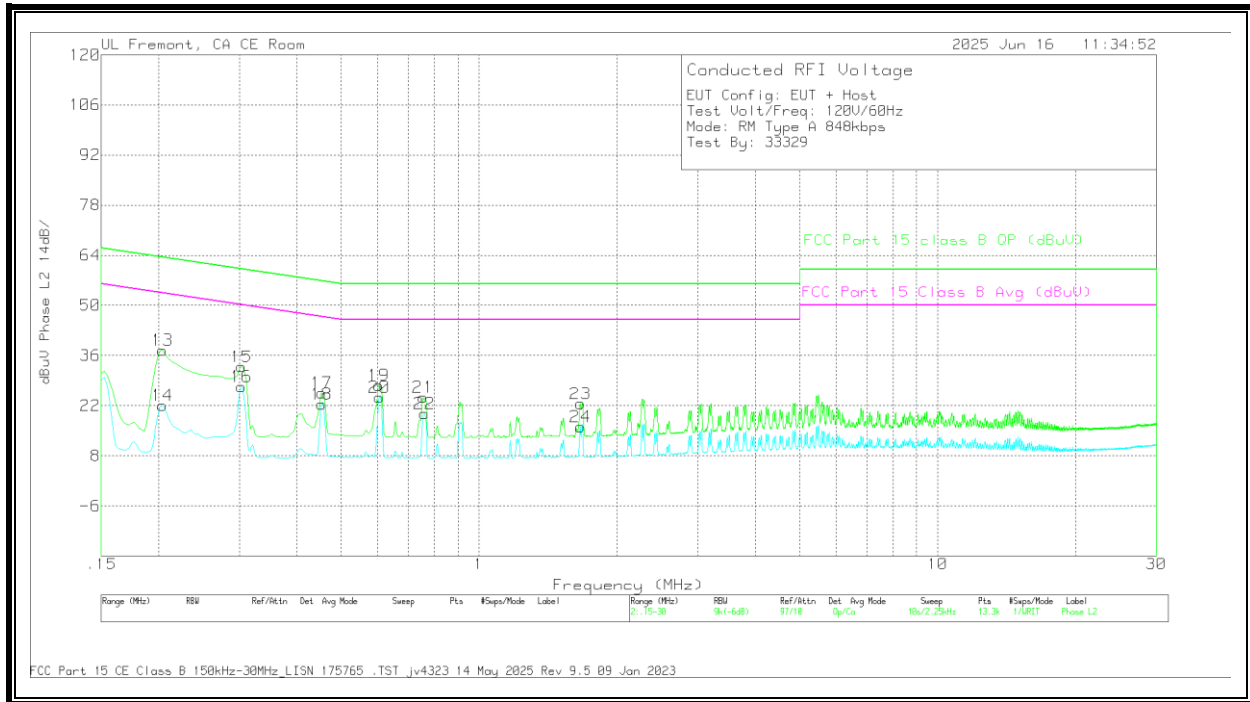
Av - Average detection

NORMAL OPERATION with Host and terminated, 848Kbps**LINE 1 RESULTS****DATA**

Range 1: Phase L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 1 C3_C1 Limit er no Pad_UL (dB)	LISN (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	.2018	2.98	Ca	9.4	0	10	22.38	53.54	-31.16	-	-
4	.303	8.72	Ca	9.4	0	10	28.12	50.16	-22.04	-	-
6	.4538	4.78	Ca	9.3	0	10	24.08	46.81	-22.73	-	-
8	.609	5.09	Ca	9.4	0	10	24.49	46	-21.51	-	-
10	.7598	1.43	Ca	9.4	0	10	20.83	46	-25.17	-	-
12	1.6755	-3.01	Ca	9.4	0	10	16.39	46	-29.61	-	-
1	.1995	18.35	Qp	9.4	.1	10	37.85	-	-	63.63	-25.78
3	.303	13.85	Qp	9.4	0	10	33.25	-	-	60.16	-26.91
5	.4515	7.4	Qp	9.3	0	10	26.7	-	-	56.85	-30.15
7	.609	8.52	Qp	9.4	0	10	27.92	-	-	56	-28.08
9	.7508	6.07	Qp	9.4	0	10	25.47	-	-	56	-30.53
11	1.671	3.15	Qp	9.4	0	10	22.55	-	-	56	-33.45

Qp - Quasi-Peak detector

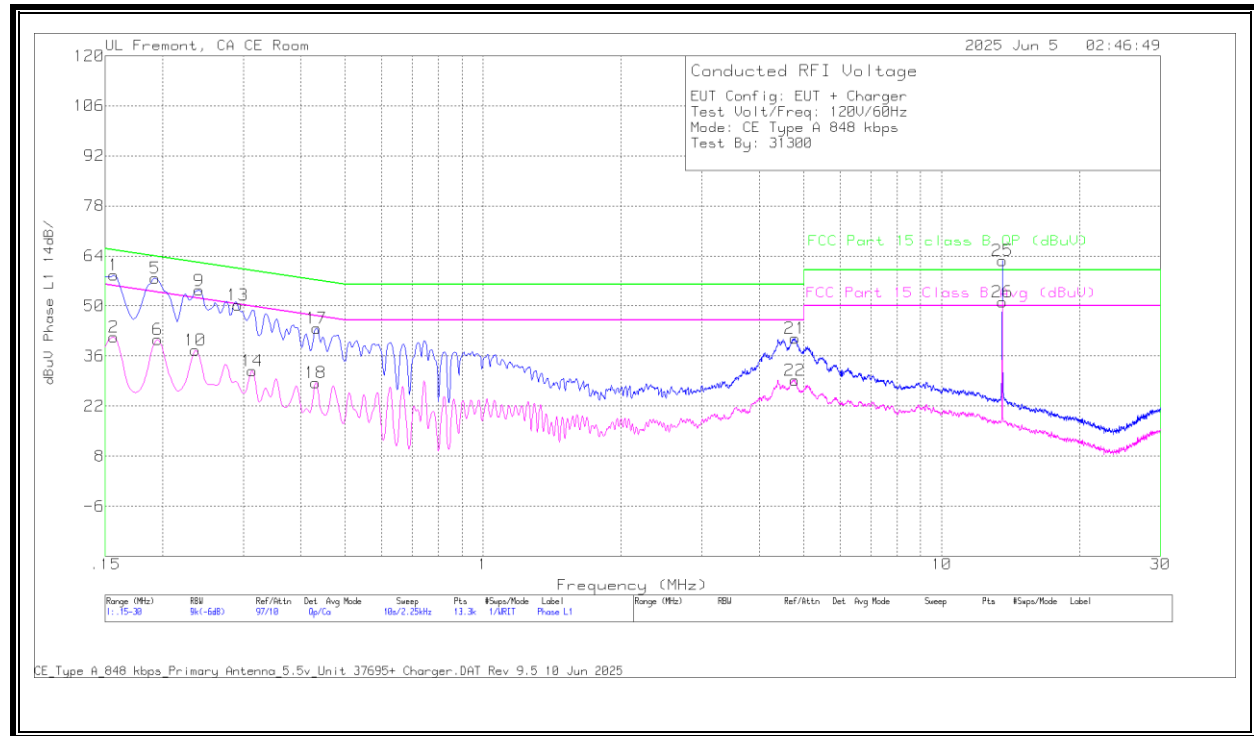
Av - Average detection

LINE 2 RESULTS**DATA**

Range 2: Phase L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 2 C3_C2_Limit er no Pad_UL (dB)	LISN (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	.204	2.65	Ca	9.4	0	10	22.05	53.45	-31.4	-	-
16	.303	8.01	Ca	9.3	0	10	27.31	50.16	-22.85	-	-
18	.4538	3.04	Ca	9.3	0	10	22.34	46.81	-24.47	-	-
20	.6068	5.08	Ca	9.3	0	10	24.38	46	-21.62	-	-
22	.7598	.48	Ca	9.3	0	10	19.78	46	-26.22	-	-
24	1.6643	-3.34	Ca	9.4	0	10	16.06	46	-29.94	-	-
13	.204	18.02	Qp	9.4	0	10	37.42	-	-	63.45	-26.03
15	.303	13.54	Qp	9.3	0	10	32.84	-	-	60.16	-27.32
17	.4538	6.25	Qp	9.3	0	10	25.55	-	-	56.81	-31.26
19	.6045	8.37	Qp	9.3	0	10	27.67	-	-	56	-28.33
21	.7553	5.04	Qp	9.3	0	10	24.34	-	-	56	-31.66
23	1.6643	3.1	Qp	9.4	0	10	22.5	-	-	56	-33.5

Qp - Quasi-Peak detector

Av - Average detection

10.1.3. CE MODE: Type A 848 Kbps**NORMAL OPERATION with charger and not terminated 848kbps****LINE 1 RESULTS****DATA**

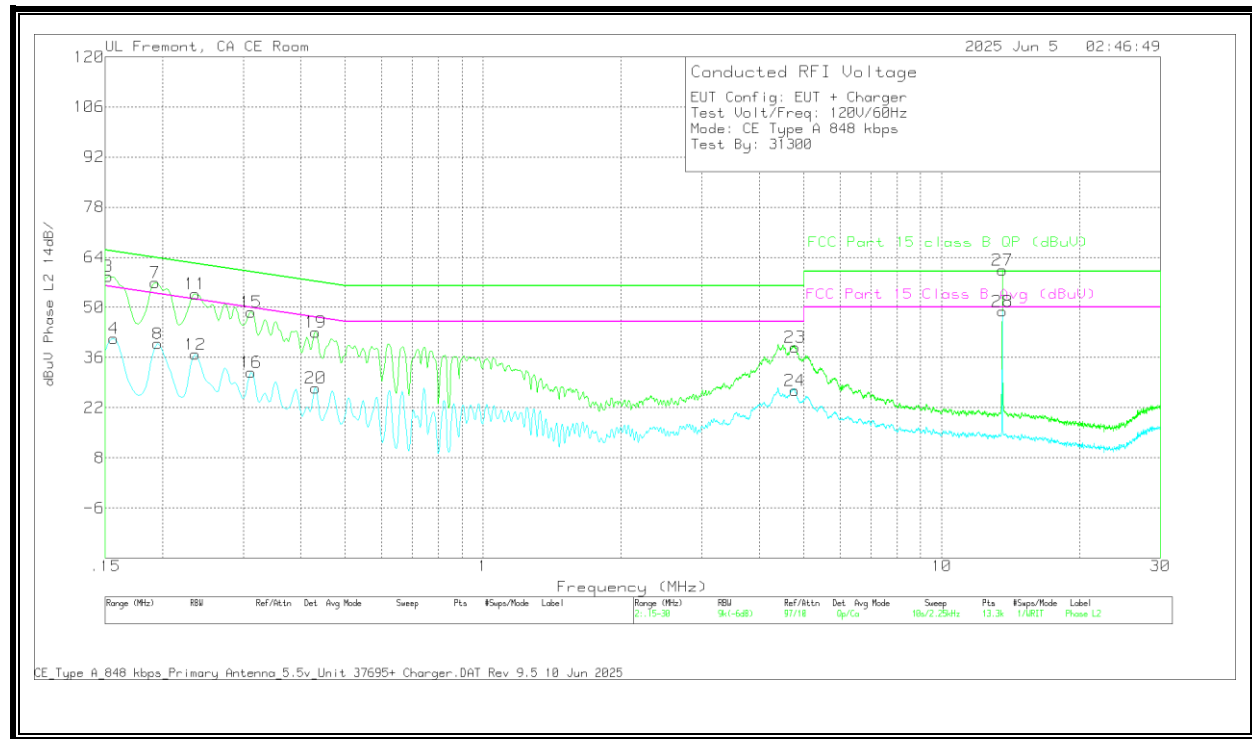
Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1568	22.3	Ca	.4	.1	8.5	10	41.3	55.63	-14.33	-	-
6	.195	22.02	Ca	.1	.1	8.4	10	40.62	53.82	-13.2	-	-
10	.2355	19.31	Ca	0	0	8.3	10	37.61	52.25	-14.64	-	-
14	.3143	13.8	Ca	-.1	0	8.1	10	31.8	49.86	-18.06	-	-
18	.4313	9.97	Ca	-.1	0	8.7	10	28.57	47.23	-18.66	-	-
22	4.7828	10.59	Ca	.3	0	8.4	10	29.29	46	-16.71	-	-
26	*13.56	32.7	Ca	.2	.1	8.2	10	51.2	50	1.2	-	-
1	.1568	39.61	Qp	.4	.1	8.5	10	58.61	-	-	65.63	-7.02
5	.1928	39.09	Qp	.2	.1	8.4	10	57.79	-	-	63.92	-6.13
9	.24	36.28	Qp	-.1	0	8.2	10	54.38	-	-	62.1	-7.72
13	.2918	32.33	Qp	0	0	8	10	50.33	-	-	60.47	-10.14
17	.4335	25.15	Qp	0	0	8.7	10	43.85	-	-	57.19	-13.34
21	4.7873	22.34	Qp	.3	0	8.4	10	41.04	-	-	56	-14.96
25	*13.56	44.2	Qp	.2	.1	8.2	10	62.7	-	-	60	2.7

Qp - Quasi-Peak detector

Av - Average detection

* Fundamental

Note: 13.56 MHz is the fundamental frequency of the EUT. Data under the following section indicates that when the antenna port is terminated, the fundamental amplitude is lowered below the limit line.

LINE 2 RESULTS**DATA**

Range 2: Phase L2 .15 - 30MHz												
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)
4	.1568	22.37	Ca	.4	.1	8.5	10	41.37	55.63	-14.26	-	-
8	.195	21.34	Ca	.1	0	8.4	10	39.84	53.82	-13.98	-	-
12	.2355	18.56	Ca	0	0	8.3	10	36.86	52.25	-15.39	-	-
16	.312	13.87	Ca	-.1	0	8.1	10	31.87	49.92	-18.05	-	-
20	.4313	8.94	Ca	-.1	0	8.7	10	27.54	47.23	-19.69	-	-
24	4.7828	8.01	Ca	.3	0	8.4	10	26.71	46	-19.29	-	-
28	*13.56	30.44	Ca	.2	.1	8.2	10	48.94	50	-1.06	-	-
3	.1523	39.6	Qp	.5	.1	8.5	10	58.7	-	-	65.88	-7.18
7	.1928	38.33	Qp	.2	0	8.4	10	56.93	-	-	63.92	-6.99
11	.2355	35.43	Qp	0	0	8.3	10	53.73	-	-	62.25	-8.52
15	.312	30.75	Qp	-.1	0	8.1	10	48.75	-	-	59.92	-11.17
19	.4313	24.46	Qp	-.1	0	8.7	10	43.06	-	-	57.23	-14.17
23	4.785	20.13	Qp	.3	0	8.4	10	38.83	-	-	56	-17.17
27	*13.56	41.9	Qp	.2	.1	8.2	10	60.4	-	-	60	.4

Qp - Quasi-Peak detector

Av - Average detection

* Fundamental

Note: 13.56 MHz is the fundamental frequency of the EUT. Data under the following section indicates that when the antenna port is terminated, the fundamental amplitude is lowered below the limit line.