

TEST REPORT

Report Number : 16097213-E1V2

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

Model : A3669

FCC ID : BCGA3669

IC : 579C-A3669

EUT Description : MAGNETIC CHARGER

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
ISED RSS-216 ISSUE 3
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:

2026/08/13

Prepared by:

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REPORT REVISION HISTORY

Rev.		Issue Date		Revisions		Revised By
V1		2026/08/12		Initial Issue		--
V2		2026/08/13		Updated sections		Kevin Yong-Tim

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.		
Model	A3669		
FCC ID	BCGA3669		
IC	579C-A3669		
Brand	APPLE		
EUT Description	Magnetic Charger		
SERIAL NUMBER	DLCHS8000FE0001KNM		
SAMPLE RECEIPT DATE	2026/04/09		
DATE TESTED	MAY 5, 2026 TO JULY 30, 2026		
Applicable Standards	FCC 47 CFR PART 15 SUBPART C ISED RSS-216 ISSUE 3 ISED RSS-GEN Issue 5 + A1 + A2		
Test Results	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. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly 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.			
Approved & Released By:		Prepared By:	
			
Thu Chan Staff Engineer UL Verification Services Inc.		John Allen Bautista Laboratory Engineer UL Verification Services Inc.	

2. TEST SUMMARY

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment	RSS-GEN 6.7	99% OBW	Reporting purposes only	ANSI C63.10 Section 6.9.3
15.209 (a)	RSS-216 (5.3.3.1, 5.3.3.2), RSS-GEN (8.9, 8.10)	Radiated Emissions	Complies	None.
-	RSS-216 (5.5)	Frequency Stability	Complies	None.
15.207 (a)	RSS-216 (5.3.2)	AC Mains Conducted Emissions	Complies	None.

3. TEST METHODOLOGY

- ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
- ANSI C63.30-2021
- FCC 47 CFR Part 2
- FCC 47 CFR Part 15 Subpart C
- KDB 414788 D01 Radiated Test Site
- RSS-GEN Issue 5 + A1 + A2
- RSS-216 Issue 3

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 taken into account 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}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	2.75%
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 (E-field)	2.84 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz (H-field)	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Time Domain Measurements	3.39%
Temperature	0.57°C
Relative Humidity	3.39%

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

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a magnetic charger which inductively charge other wireless charging devices. The charging function operates at 127.7kHz and 360kHz.

6.2. MAXIMUM E-FIELD and H-FIELD

The transmitter has maximum peak radiated electric and magnetic field strength as follows:

Fundamental Frequency (kHz)	Mode	E-field (300m distance) FCC (dBμV/m)	H-field (3m distance) IC (dBμA/m)
127.7	Operating Load 1	-25.62	4.05
360		-33.61	1.11
127.7	Operating Load 2	-27.74	-1.52
360		-32.31	-3.91
--	Standby	-38.85	-10.09

6.3. WORST-CASE CONFIGURATION AND MODE

The worst-case configuration was determined to be the EUT in its natural orientation with the load set at the center of the EUT.

1. The EUT was tested on standby and operation modes. During operational mode, EUT was tested with load.
2. The load drew the following power levels:
 - 10 W at 127.7 kHz
 - 20 W at 360 kHz
3. The EUT was tested with the following worst case configurations:

CONFIGURATION	MODE	DESCRIPTION
1	Standby	EUT powered by AC/DC adapter via USB-C Connector
2	Operating Load 1 • Load 1 EUT w/ 127.7 kHz Fundamental	EUT powered by AC/DC Adapter via USB-C connector with a Load at charging mode
3	Operating Load 2 • EUT w/ 127.7 kHz Fundamental	EUT powered by AC/DC Adapter via USB-C connector with a Load at charging mode
4	Operating Load 1 • EUT w/ 360 kHz Fundamental	EUT powered by AC/DC Adapter via USB-C connector with a Load at charging mode
5	Operating Load 2 • EUT w/ 360 kHz Fundamental	EUT powered by AC/DC Adapter via USB-C connector with a Load at charging mode

Three different load levels were investigated: ~10% charged, ~50% charged, and ~90% charged, and it was determined that the ~10% charged configuration was the worst-case scenario set for final test on both loads.

For below 30MHz & 1GHz tests, the EUT was connected to AC power adapter as the worst case. For AC line conducted emission, test was investigated with AC power adapter. The EUT was tested on standby and operation modes. During operational mode, EUT was tested with Load.

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.

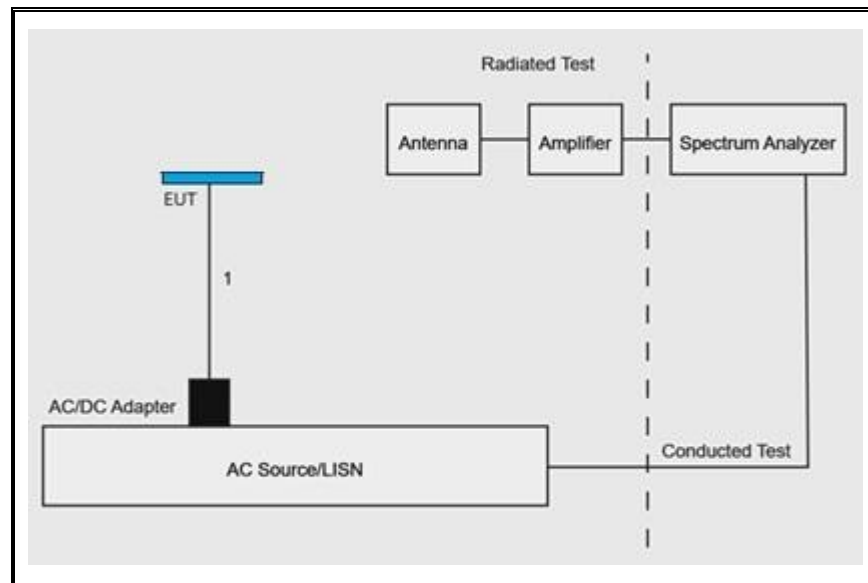
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 300 m open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788 D01.

6.4. DESCRIPTION OF TEST SETUP

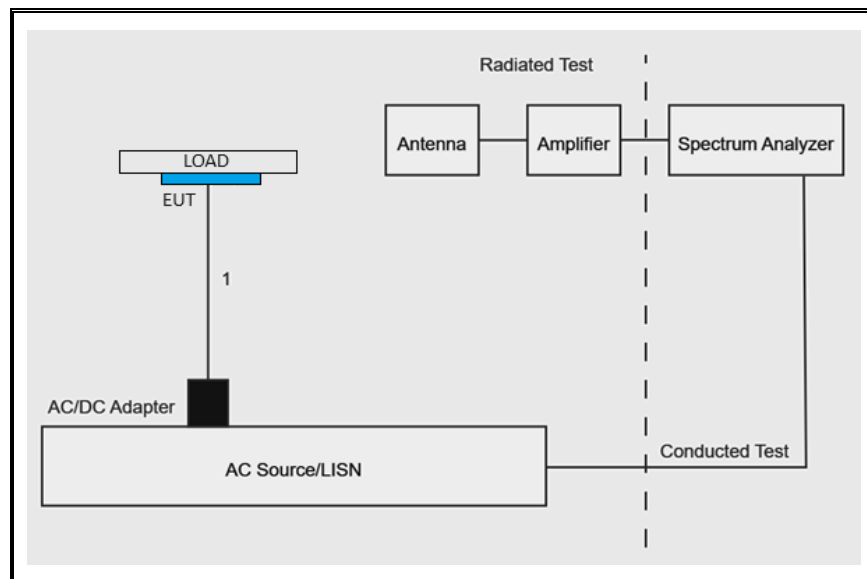
SUPPORT EQUIPMENT & PERIPHERALS LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
AC/DC adapter	Apple	N/A	F162073003S0J9V07	N/A
Load 1	Apple	N/A	X9V VWX7XC6	N/A
Load 2	Apple	N/A	NWMGGPXVM6	N/A
Charging Cable	Apple	N/A	FTLHLH0023V0001061	N/A

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	USB-C	Un-Shielded	1	None

STANDBY MODE SETUP



OPERATING MODE SETUP



7. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	ID Num	Cal Due
Antenna, Passive Loop 30Hz to 1MHz	Electro-Metrics	EM-6871	170013	2026-09-30
Antenna, Passive Loop 100KHz to 30MHz	Electro-Metrics	EM-6872	170015	2026-09-30
Amplifier, 9kHz to 1GHz, 32dB	Sonoma Instrument	310N	79584	2026-12-31
Antenna, Broadband Hybrid, 30MHz to 2000MHz w/4dB	Sunol Sciences Corp.	JB3	202301	2027-02-28
Sniffer Probes	Electro Metrics	EM-6992	N/A	N/A
EMI TEST RECEIVER, ESW, 1Hz to 44GHz	Rohde & Schwarz	ESW44	235266	2027-02-28
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A-544	125188	2027-01-31
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	82472	2026-09-30

AC Line Conducted				
Description	Manufacturer	Model	ID Num	Cal Due
EMI TEST RECEIVER 9kHz - 3.6GHz	Rohde & Schwarz	ESR	171646	2027-03-31
LISN for Conducted Emissions	Fischer Custom Communications, Inc	FCC-LISN-50/250-25-2-01-480V	175765	2027-01-31
Transient Limiter	TE	TBFL1	207996	2026-12-31
UL AUTOMATION SOFTWARE				
Radiated Software	UL	UL EMC	Ver 9.5, 21 May 2024	
Conducted Software	UL	UL EMC	2024.2.23	
AC Line Conducted Software	UL	UL EMC	Ver 9.5, 03 Mar 2023	

8. OCCUPIED BANDWIDTH

TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1-5% of OBW. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

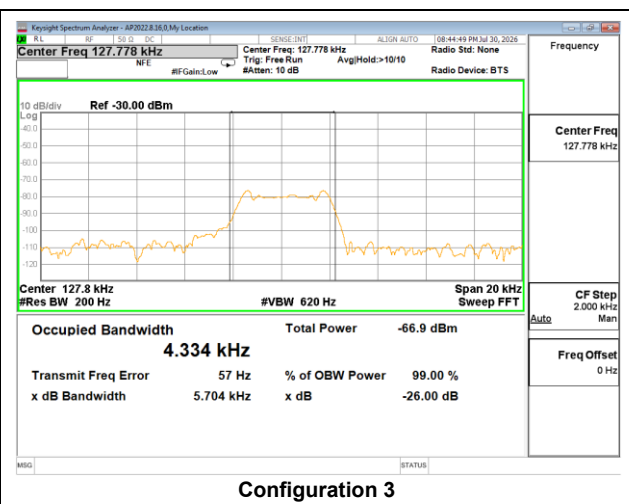
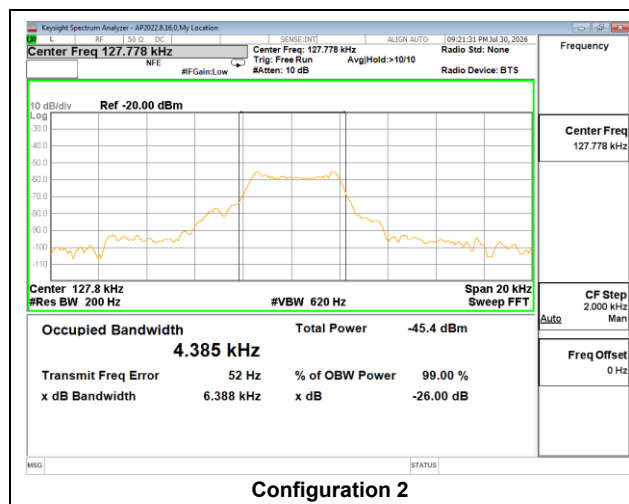
Configuration 2: Charger with Load 1 in operating mode, transmitting at 127.7 kHz

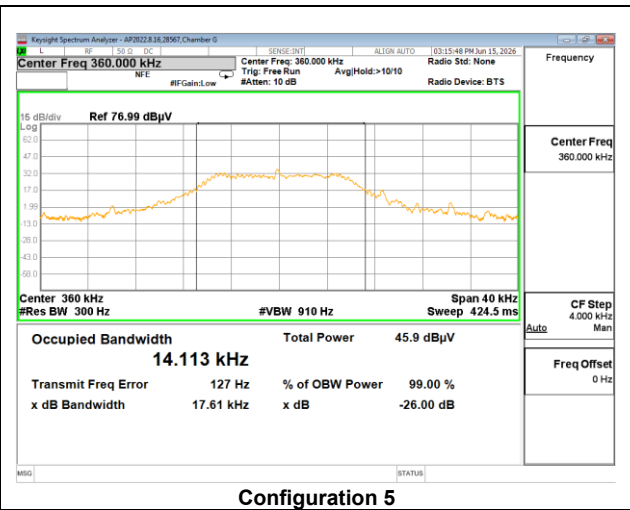
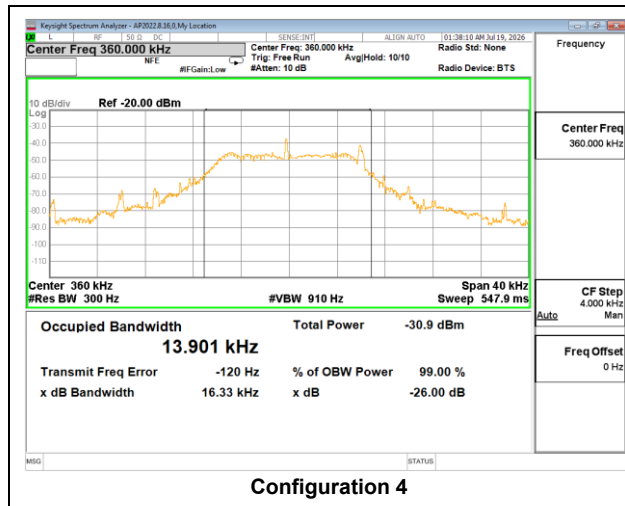
Configuration 3: Charger with Load 2 in operating mode, transmitting at 127.7 kHz

Configuration 4: Charger with Load 1 in operating mode, transmitting at 360 kHz

Configuration 5: Charger with Load 2 in operating mode, transmitting at 360 kHz

Configuration	Occupied Bandwidth (kHz)	
	127.7	360
2	4.385	-
3	4.33	-
4	-	13.90
5	-	14.11





9. RADIATED EMISSION TEST RESULTS LIMIT

FCC §15.209 (a)

Frequency (MHz)	Field Strength (microvolts/meter)	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 to 216	150	3
216 to 960	200	3
Above 960 MHz	500	3
Note: The lower limit shall apply at the transition frequency.		

ISED RSS-216 Section 5.3.3.1 and 5.3.3.2 and ISED RSS-GEN Sections 8.9 and 8.10.

ISED RSS-216 Table 3 and Table 5

Table 3: Magnetic field strength limits at 3 m distance (9 kHz to 30 MHz)	
Frequency (MHz)	Quasi-peak (dBμA/m)
0.009 – 0.07	69
0.07 – 0.15	69 to 39 *
0.15 – 30	39 to 7 *
* In the 0.07 MHz to 0.15 MHz and 0.15 MHz to 30 MHz frequency ranges the limit level in dBμA/m decreases linearly with the logarithm of frequency.	

Table 5: Electric field strength limits at 10 m distance (30 MHz to 1000 MHz)	
Frequency range (MHz)	Quasi-peak (dBμV/m)
30 – 230	30
230 – 1000	37
Note: The more stringent limit applies at the transition frequency.	

Note: For ISED 30MHz-1GHz radiated emission measurement, results are measured at 3m and compared to the applicable 10m limits using the distance correction factors

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 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 30MHz, the resolution bandwidth 9kHz to 150kHz is set to 300Hz, video bandwidth is set to 1kHz. 150kHz to 30MHz, the resolution bandwidth is set to 10kHz, video bandwidth is set to 30kHz.

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.

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 (face on). Green color trace on plots: Perpendicular orientation (face off).

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

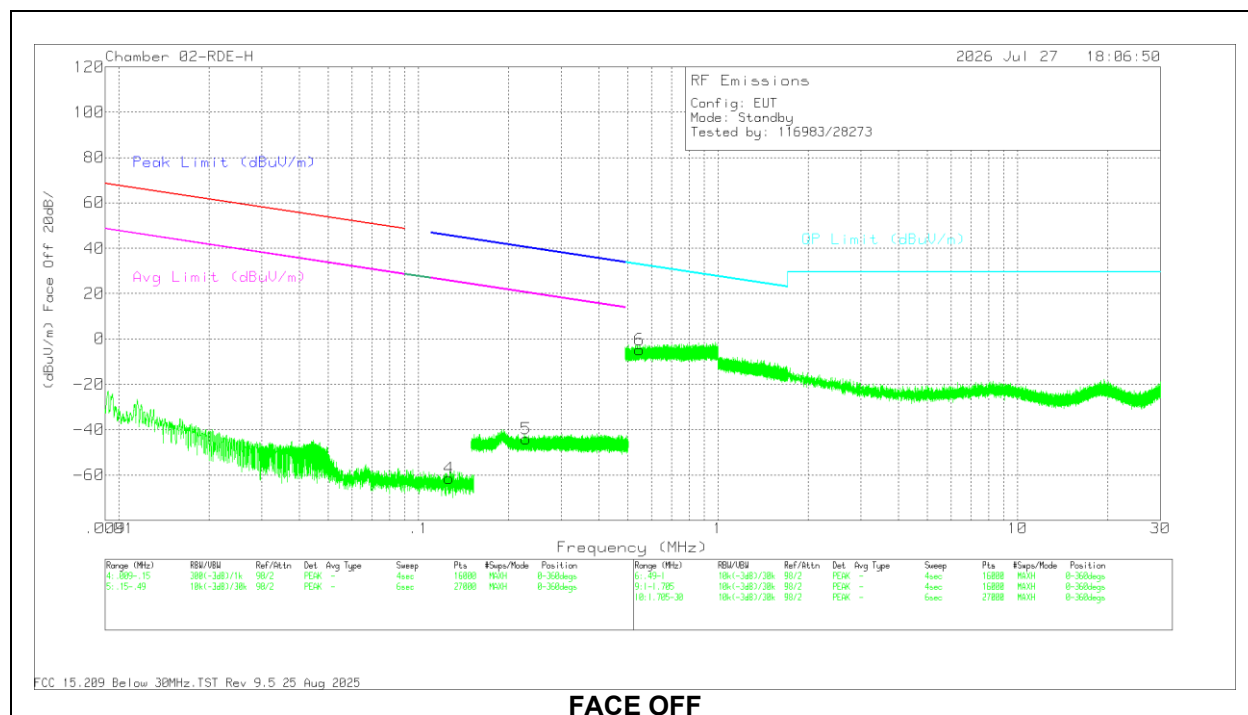
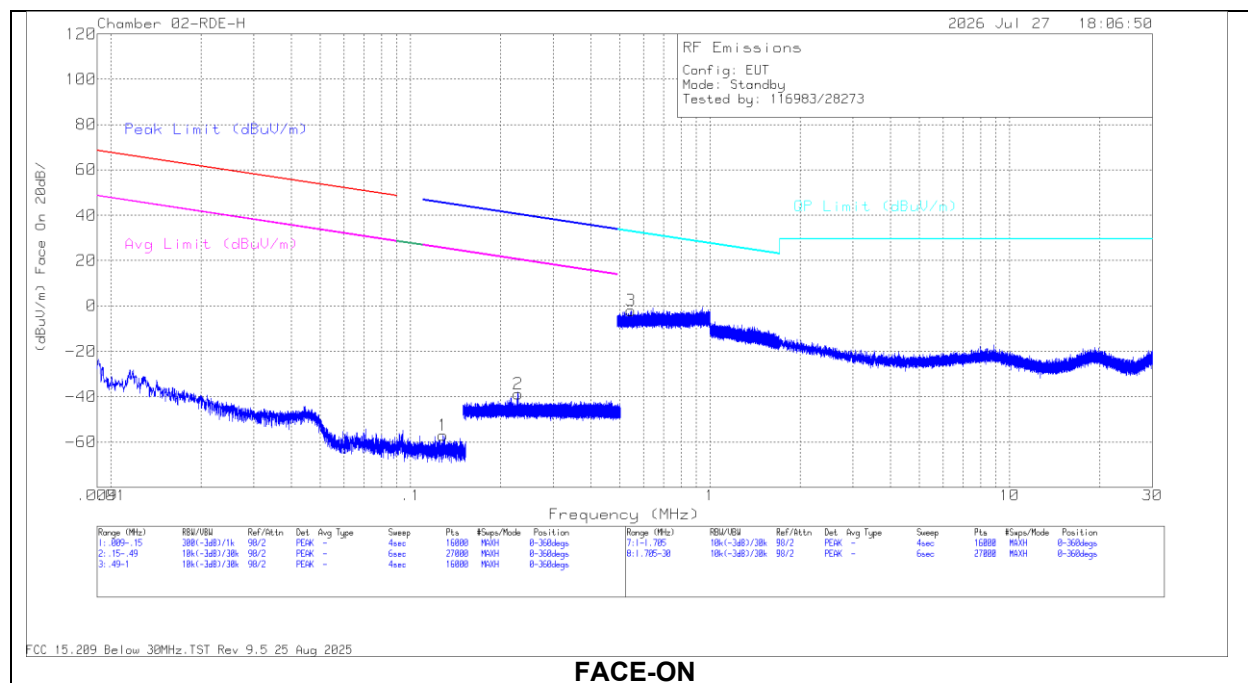
Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

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

RESULTS

9.1. CONFIGURATION 1: STANDBY MODE

9.1.1. FCC TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)



DATA

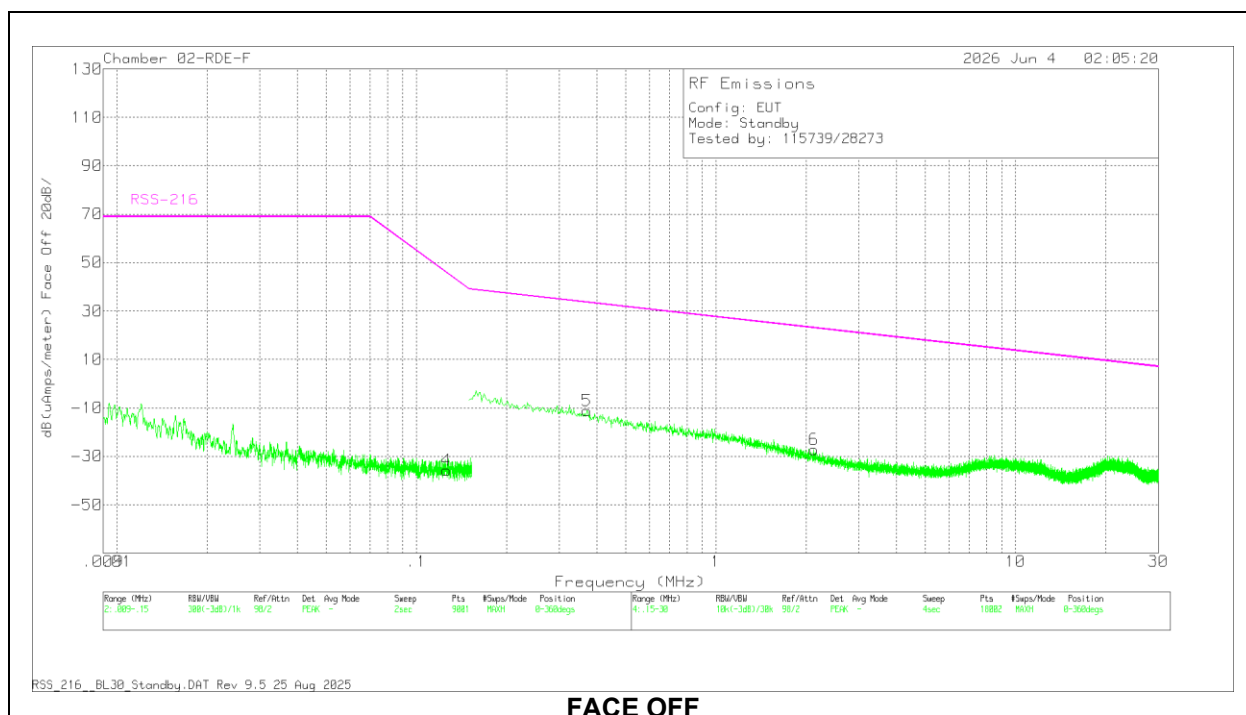
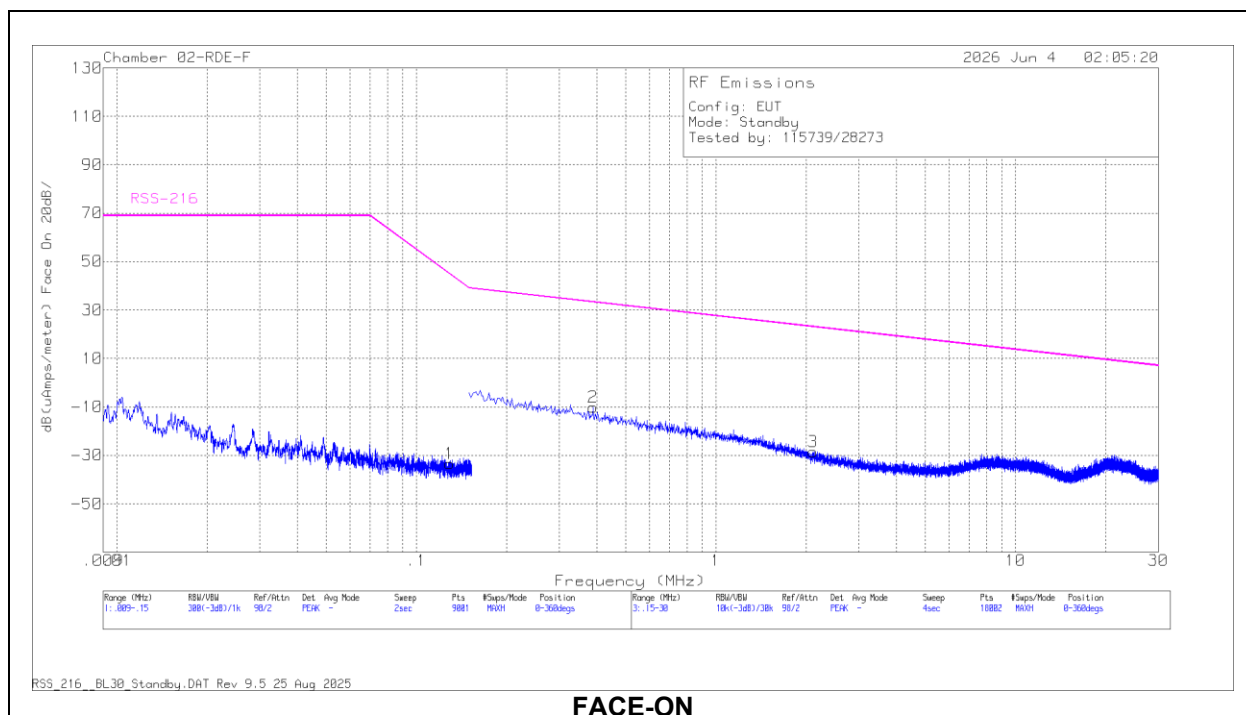
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1285	-2	Pk	55.6	-32.4	-80	-57	45.45	-102.45	25.45	-82.45	0-360	Face-on
2	.2285	17.35	Pk	56	-32.2	-80	-38.85	40.44	-79.29	20.44	-59.29	0-360	Face-on
4	.1267	-4.81	Pk	55.6	-32.4	-80	-61.61	45.57	-107.18	25.57	-87.18	0-360	Face-off
5	.2288	12.17	Pk	56	-32.2	-80	-44.03	40.43	-84.46	20.43	-64.46	0-360	Face-off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Amp/Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
3	.5439	14.24	Pk	56	-32.2	-40	-1.96	32.9	-34.86	0-360	Face-on
6	.5475	11.48	Pk	56	-32.2	-40	-4.72	32.84	-37.56	0-360	Face-off

Pk - Peak detector

9.1.2. ISED TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)

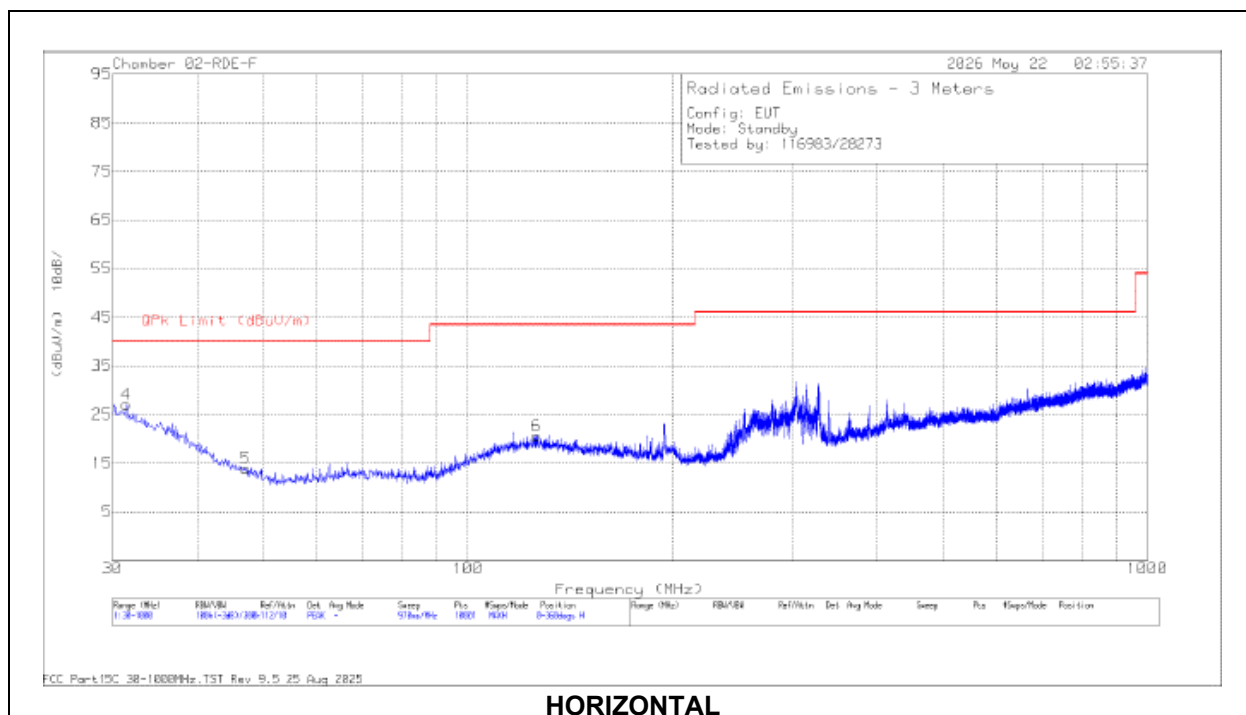


DATA

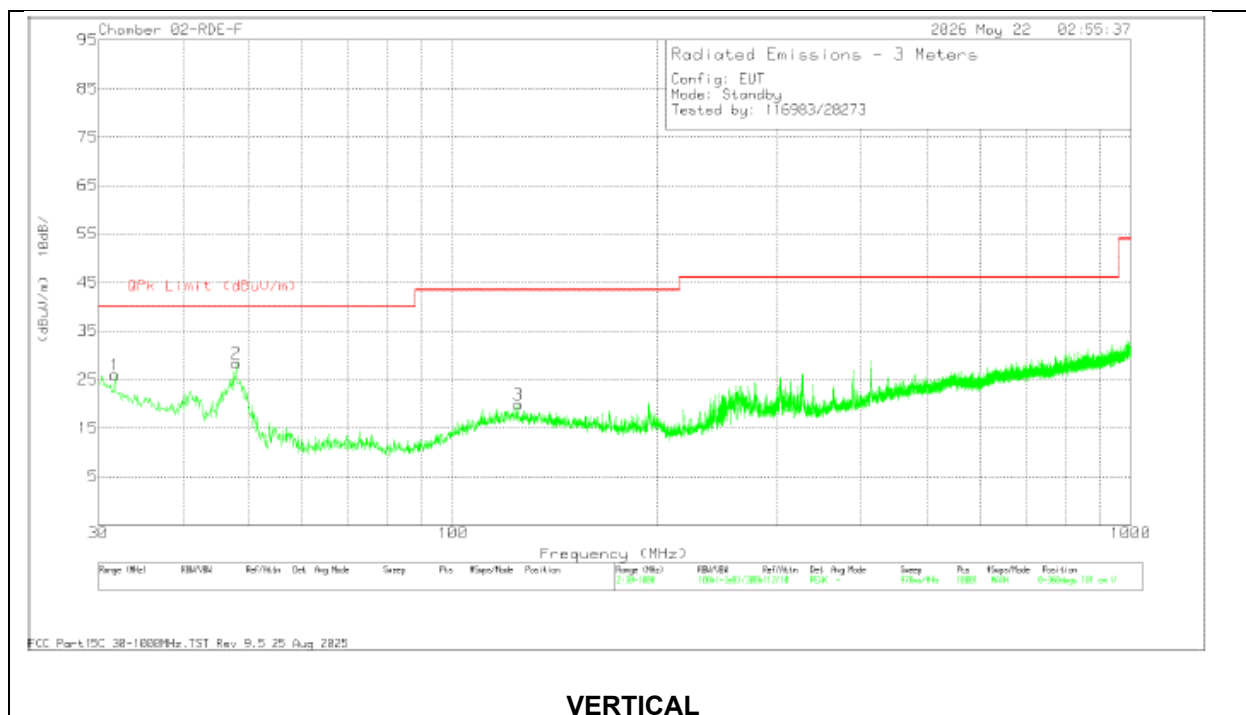
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Amp/Cbl (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Limit (dBµA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.129	-5.16	Pk	4.3	-32.6	-33.46	44.94	-78.4	0-360	Face-on
2	.3888	19.61	Pk	2.7	-32.4	-10.09	33.25	-43.34	0-360	Face-on
3	2.1098	13.93	Pk	-10.2	-32.2	-28.47	23.03	-51.5	0-360	Face-on
4	.1259	-7.56	Pk	4.3	-32.5	-35.76	45.89	-81.65	0-360	Face-off
5	.3705	18.16	Pk	3.1	-32.3	-11.04	33.54	-44.58	0-360	Face-off
6	2.1247	15.36	Pk	-10.3	-32.2	-27.14	22.99	-50.13	0-360	Face-off

Pk - Peak detector

9.1.3. FCC TX SPURIOUS EMISSION (30 - 1000 MHz)



HORIZONTAL



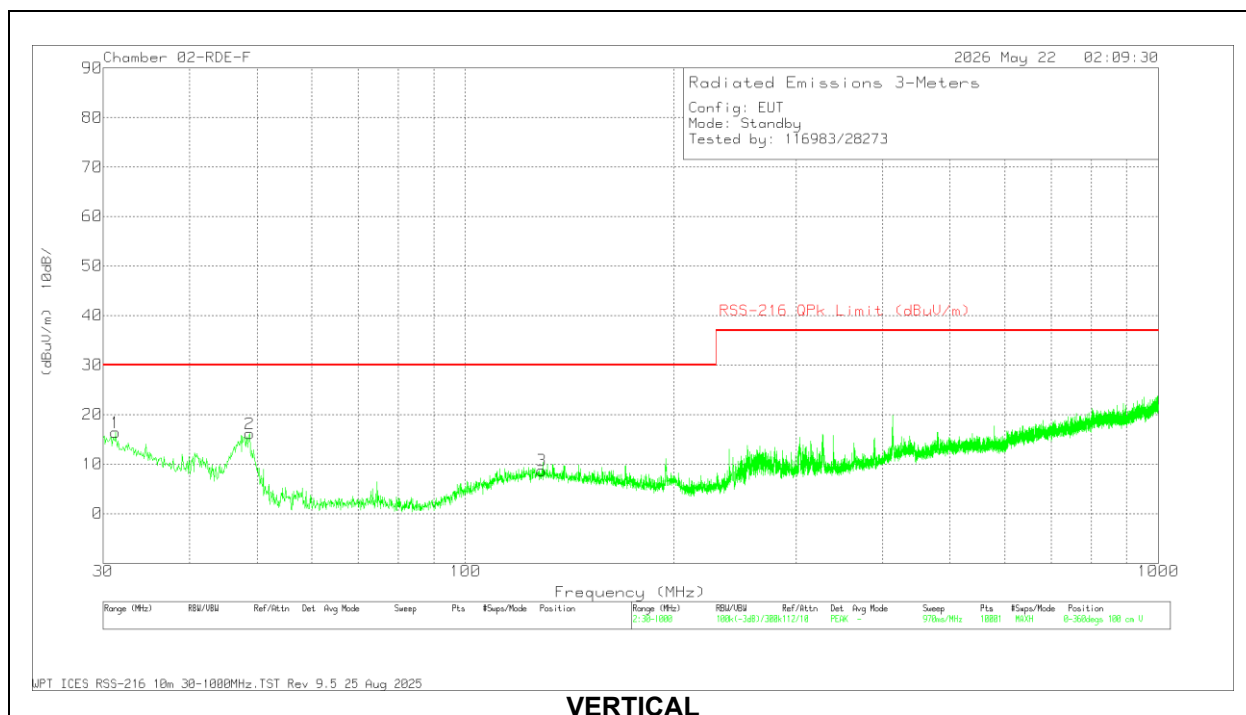
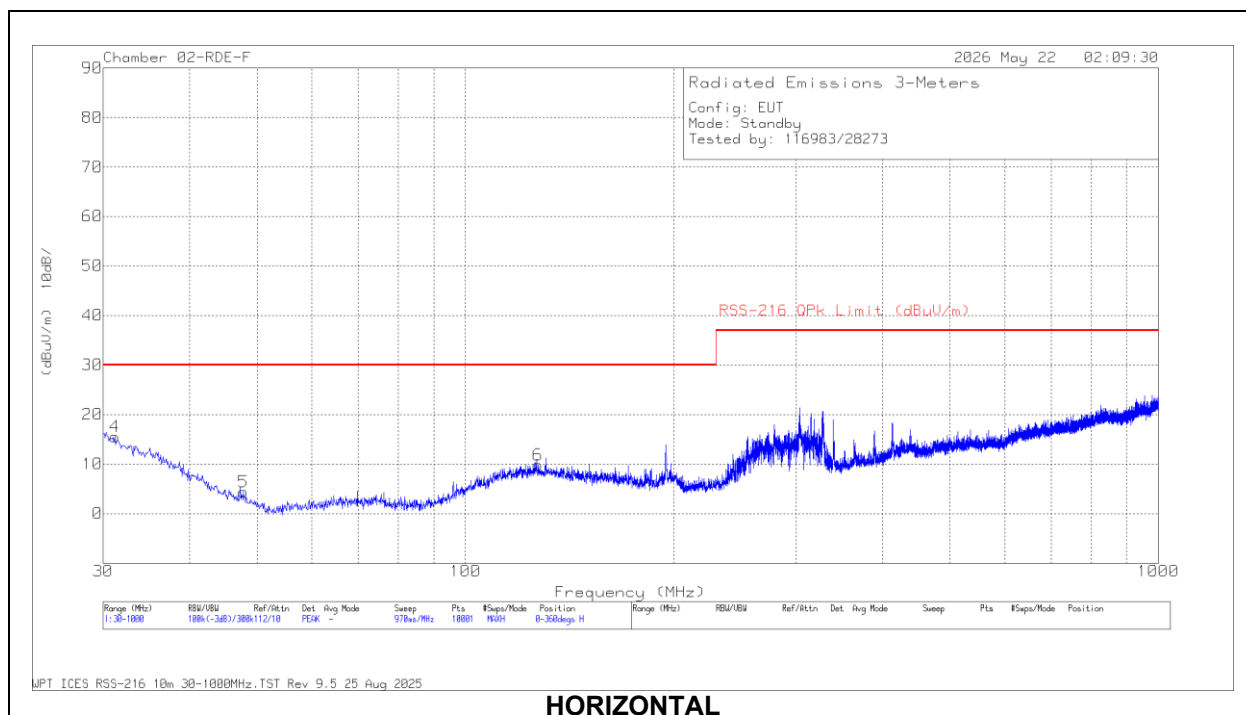
VERTICAL

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 123.36	21.86	Qp	19.7	-30.9	10.66	43.52	-32.86	56	261	H
3	* 119.009	21.6	Qp	19.5	-31	10.1	43.52	-33.42	24	356	V
4	30.4078	21.9	Qp	26.7	-31.8	16.8	40	-23.2	138	353	H
1	30.8756	22.35	Qp	26.4	-31.6	17.15	40	-22.85	307	104	V
2	48.1595	36.62	Qp	14.2	-31.5	19.32	40	-20.68	135	169	V
5	48.5069	23.22	Qp	14	-31.4	5.82	40	-34.18	261	261	H

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

9.1.4. ISED TX SPURIOUS EMISSION (30 - 1000 MHz)



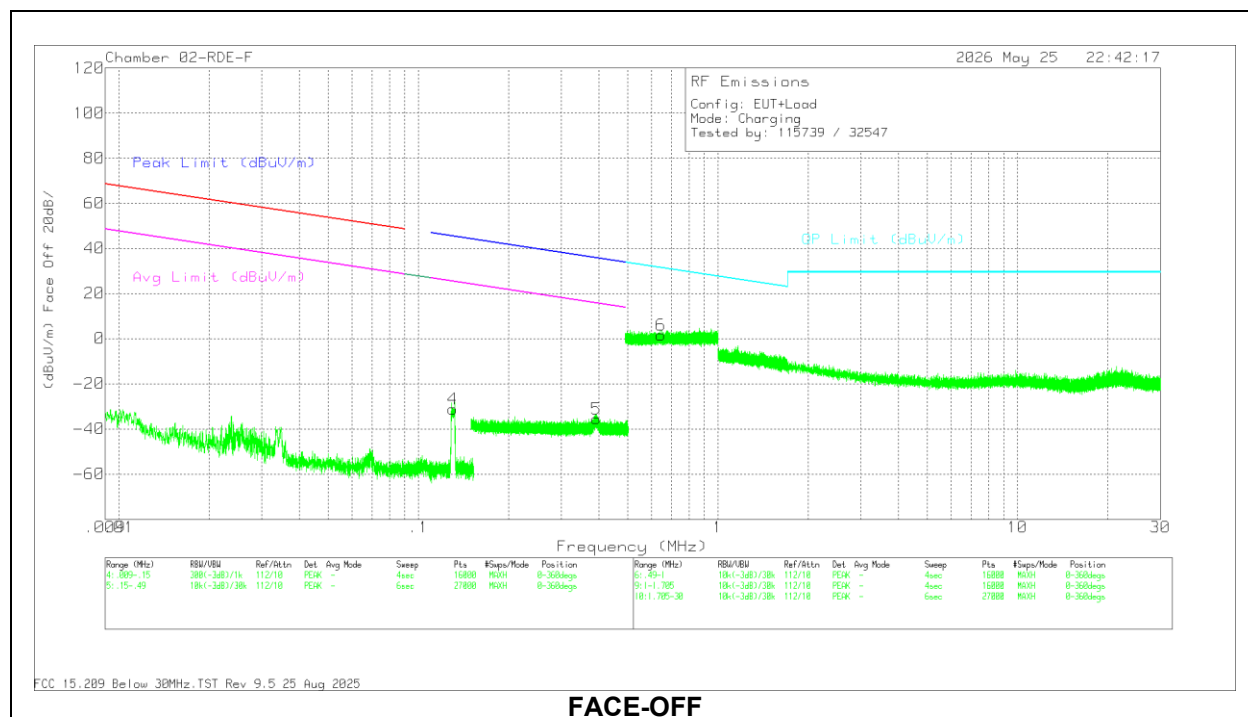
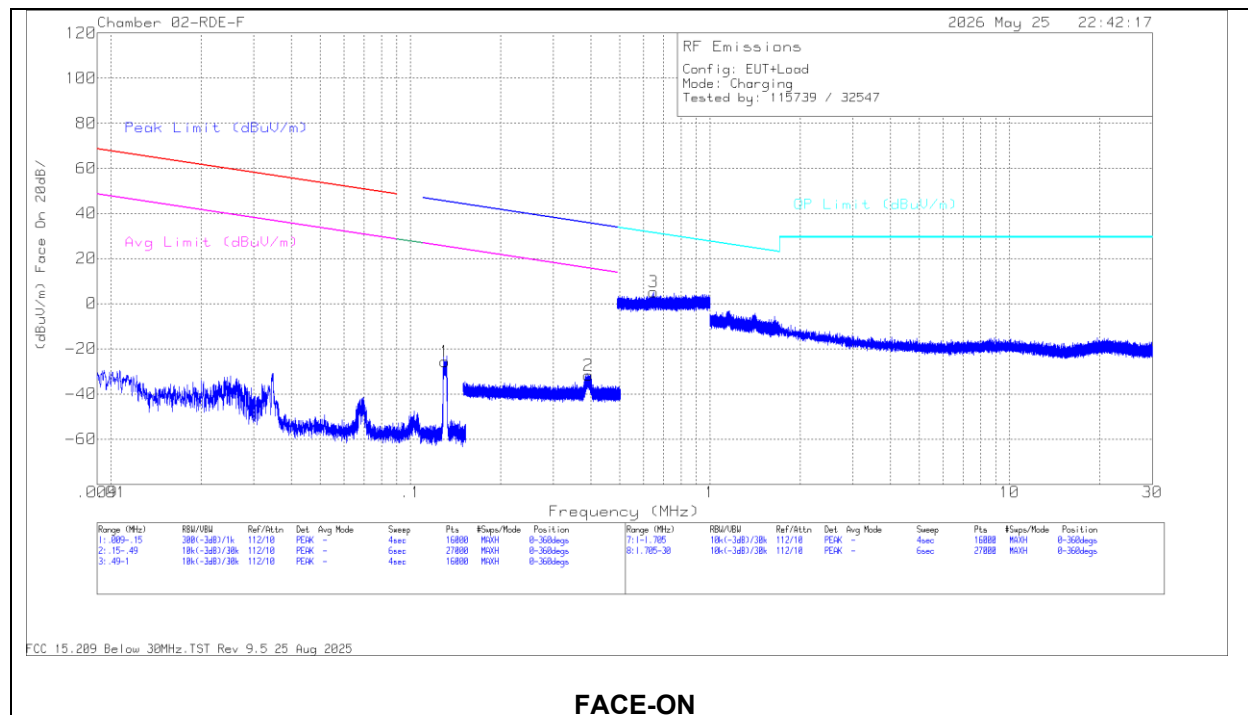
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Amp/Cbl (dB)	Dist Corr 10m (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	30.6539	21.86	Qp	26.5	-31.7	-10.5	6.16	30	-23.84	29	239	H
1	31.1058	22.04	Qp	26.2	-31.6	-10.5	6.14	30	-23.86	254	145	V
5	47.7064	23.69	Qp	14.3	-31.6	-10.5	-4.11	30	-34.11	263	397	H
2	48.0046	38.8	Qp	14.2	-31.5	-10.5	11	30	-19	146	100	V
3	130.588	22.28	Qp	19.6	-31.1	-10.5	.28	30	-29.72	150	103	V
6	135.671	21.4	Qp	19.3	-30.9	-10.5	-.7	30	-30.7	322	319	H

Qp - Quasi-Peak detector

9.2. CONFIGURATION 2: OPERATING MODE W/ LOAD 1 127.7kHz

9.2.1. FCC TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)



DATA

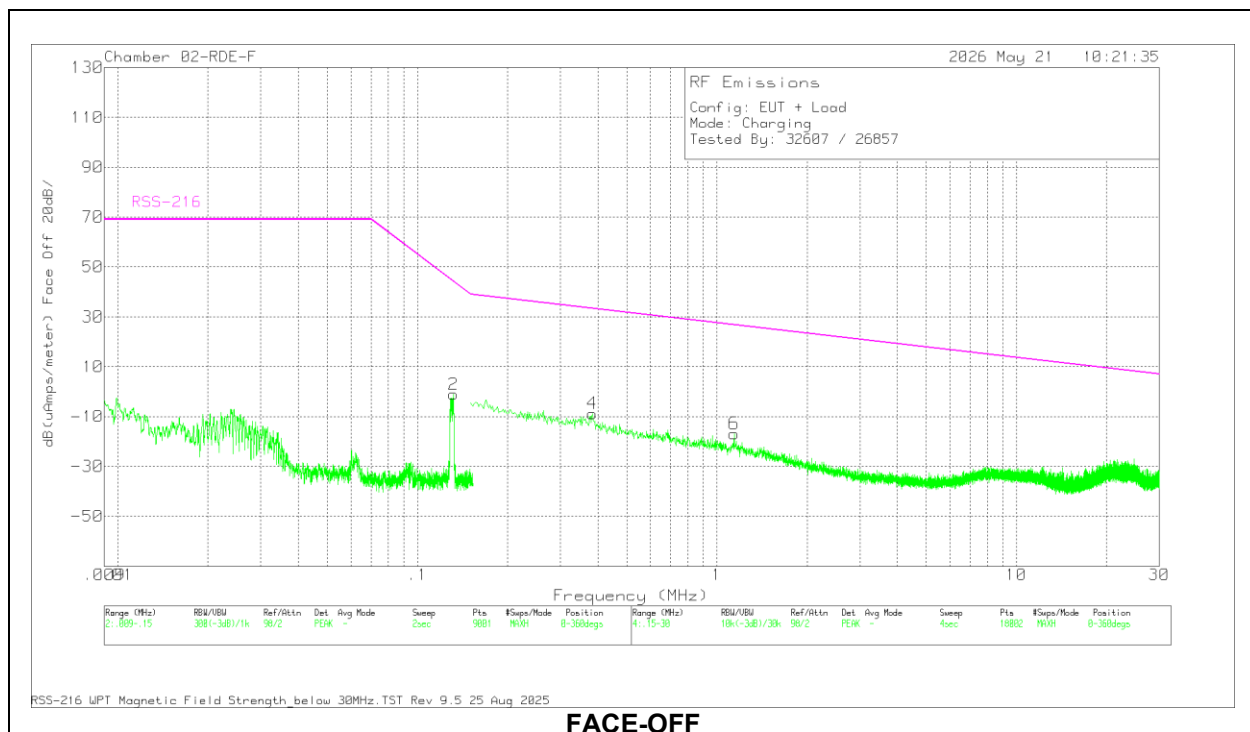
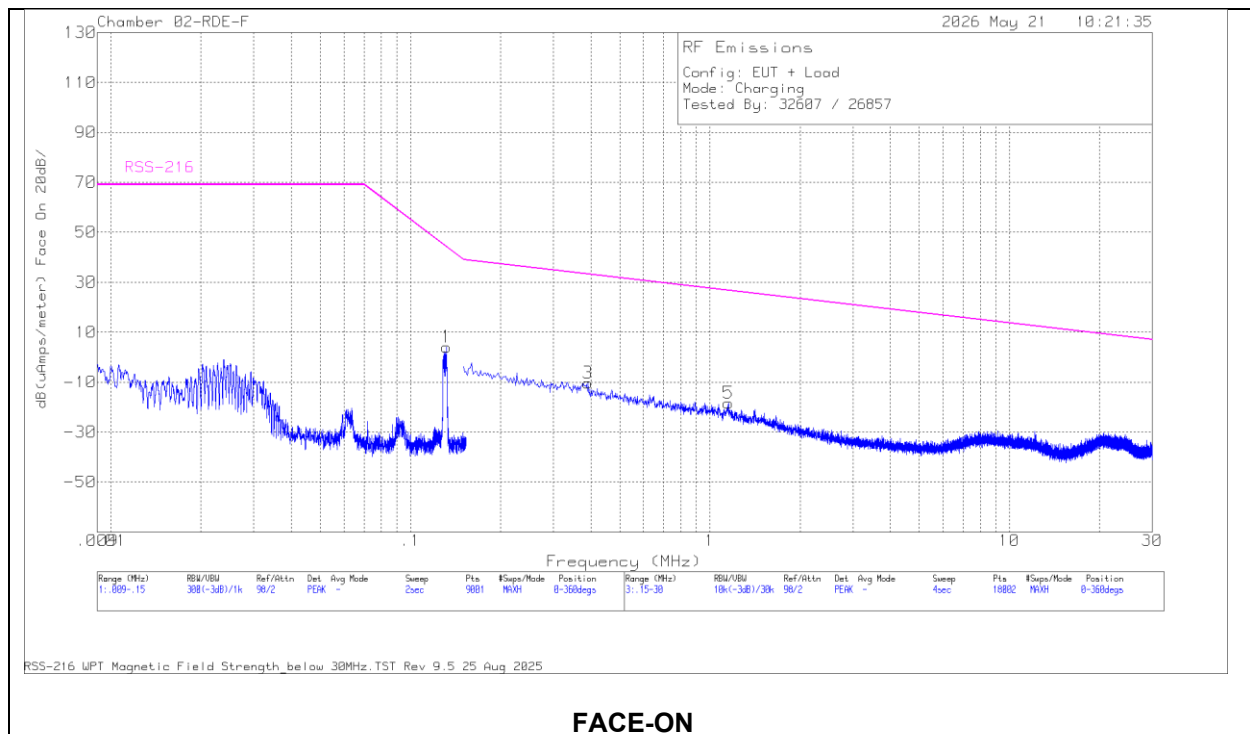
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1305	31.18	Pk	55.8	-32.6	-80	-25.62	45.32	-70.94	25.32	-50.94	0-360	Face-on
2	.3925	24.69	Pk	56.2	-32.5	-80	-31.61	35.73	-67.34	15.73	-47.34	0-360	Face-on
4	.1305	25.6	Pk	55.8	-32.6	-80	-31.2	45.31	-76.51	25.31	-56.51	0-360	Face-off
5	.3933	20.83	Pk	56.2	-32.5	-80	-35.47	35.71	-71.18	15.71	-51.18	0-360	Face-off

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
3	.6471	21.37	Pk	56.3	-32.4	-40	5.27	31.39	-26.12	0-360	Face-on
6	.6461	17.8	Pk	56.3	-32.4	-40	1.7	31.4	-29.7	0-360	Face-off

Pk - Peak detector

9.2.2. ISED TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)

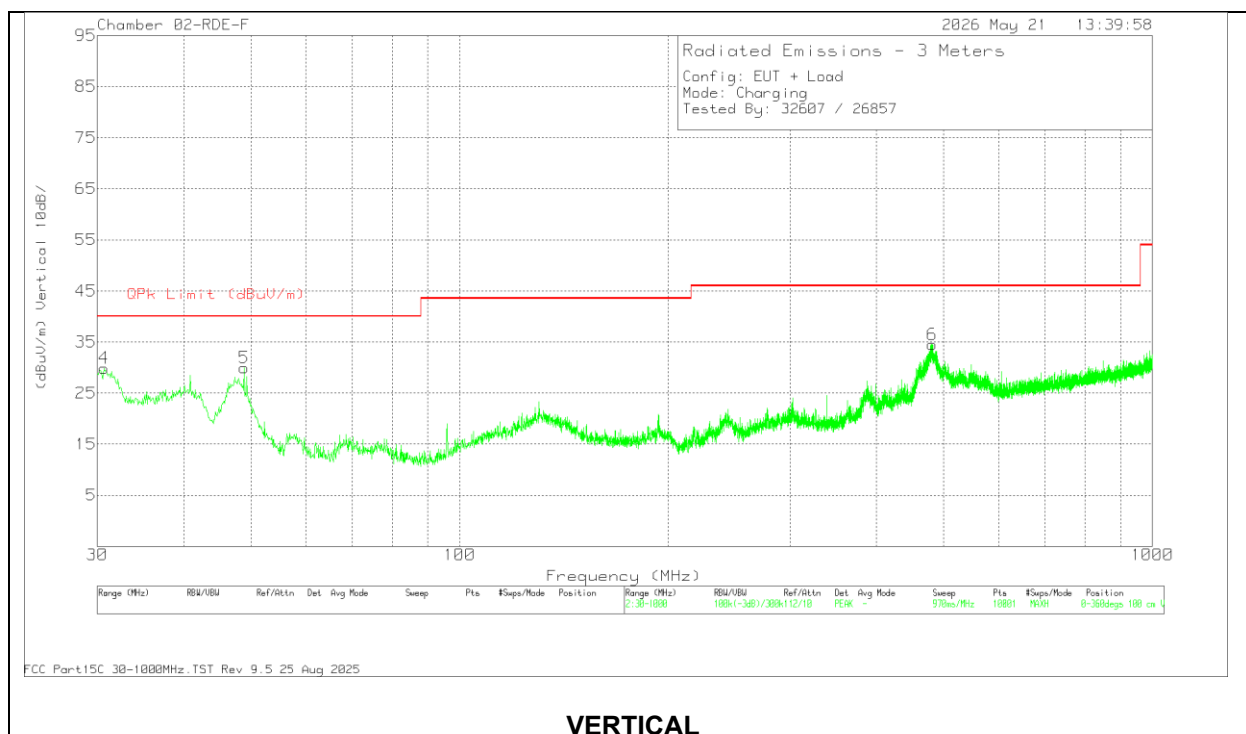
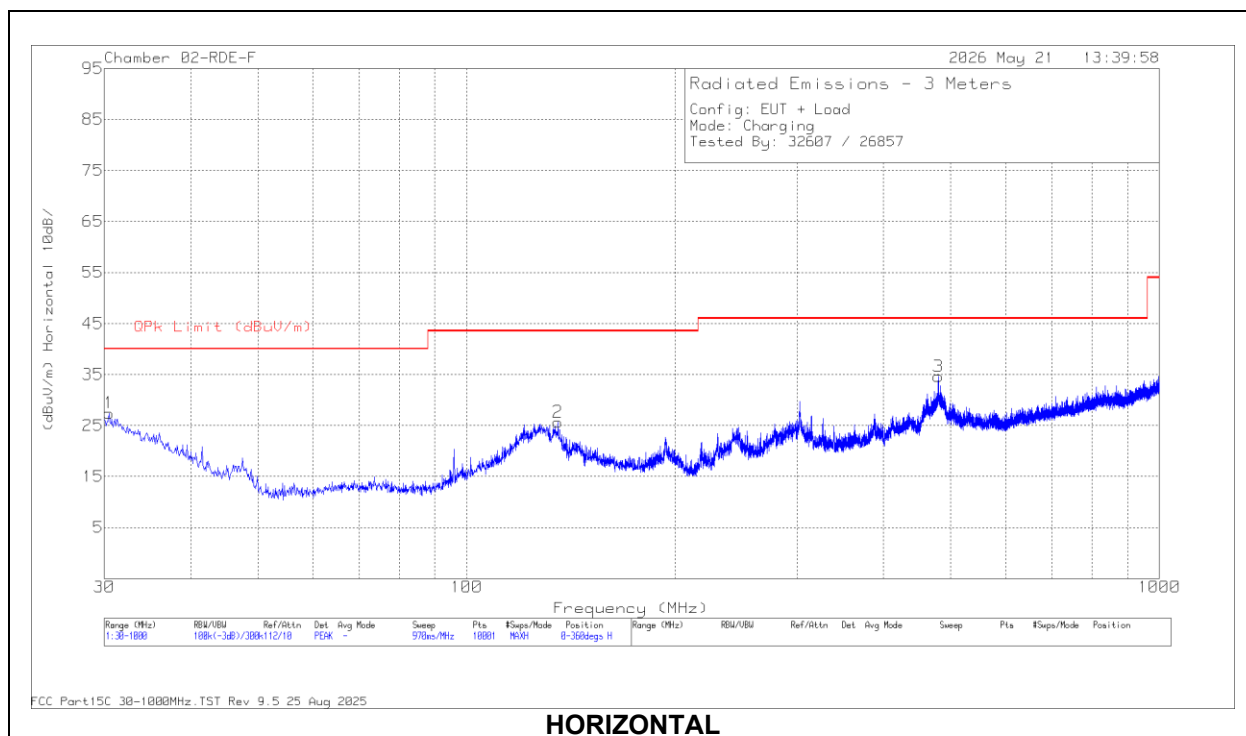


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Amp/Cbl (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Limit (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.132	32.25	Pk	4.3	-32.5	4.05	44.03	-39.98	0-360	Face-on
2	.1321	27.12	Pk	4.3	-32.5	-1.08	43.99	-45.07	0-360	Face-off
3	.3921	19.58	Pk	2.6	-32.5	-10.32	33.2	-43.52	0-360	Face-on
4	.3838	20.83	Pk	2.8	-32.4	-8.77	33.33	-42.1	0-360	Face-off
5	1.1531	19.52	Pk	-5.5	-32.4	-18.38	26.68	-45.06	0-360	Face-on
6	1.1415	20.97	Pk	-5.4	-32.4	-16.83	26.74	-43.57	0-360	Face-off

Pk - Peak detector

9.2.3. FCC TX SPURIOUS EMISSION (30 - 1000 MHz)

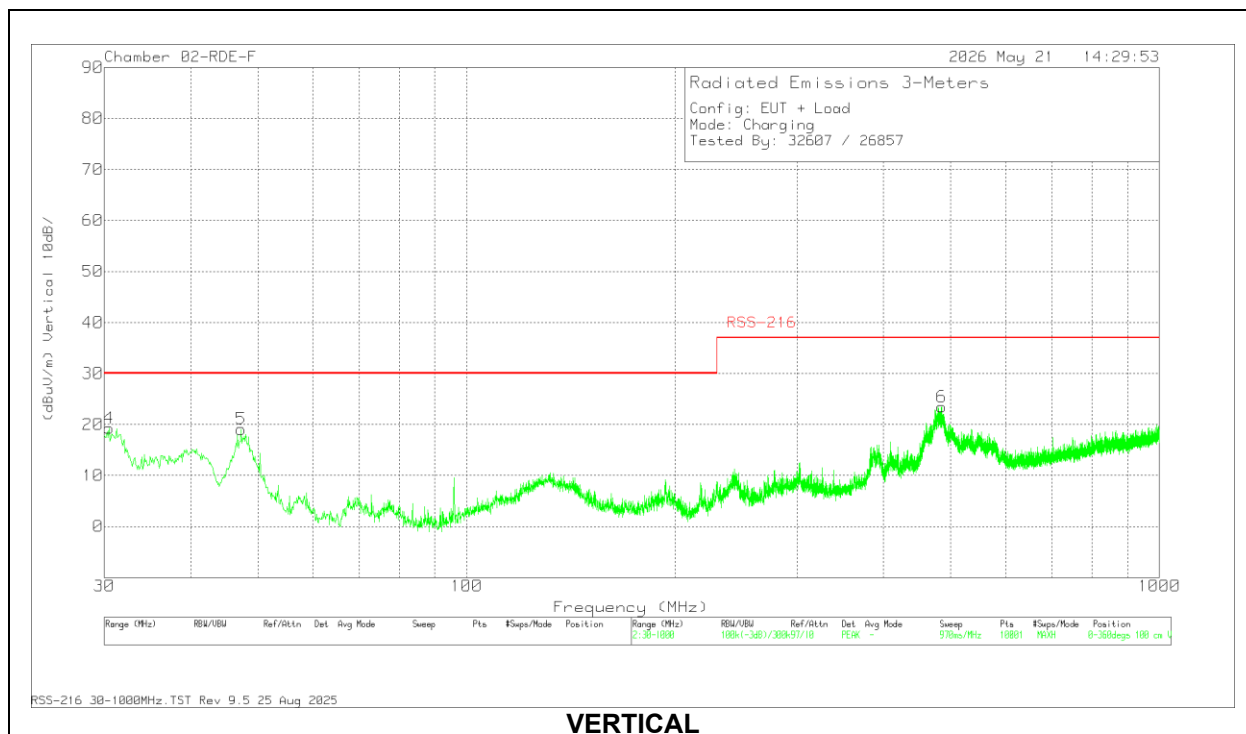
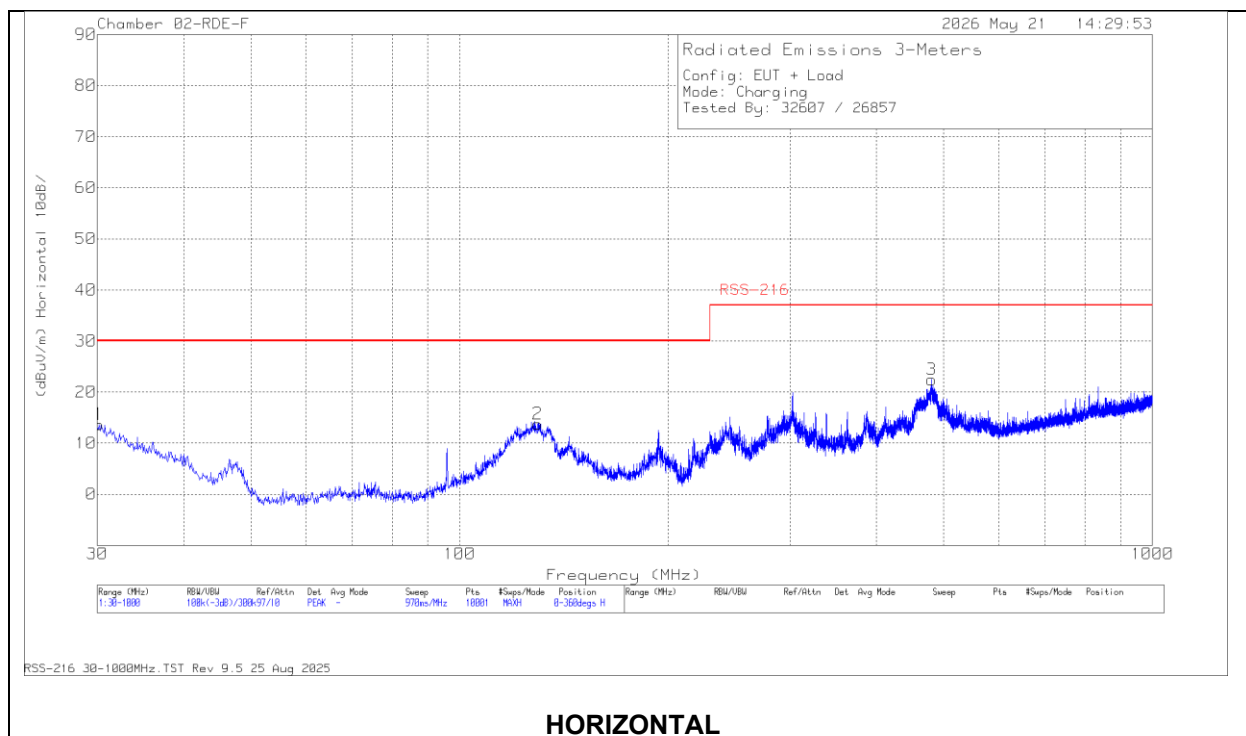


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 133.435	30.62	Qp	19.4	-30.8	19.22	43.52	-24.3	151	180	H
1	30.1155	22.43	Qp	26.8	-31.9	17.33	40	-22.67	71	215	H
4	31.557	30.07	Qp	25.9	-31.8	24.17	40	-15.83	33	101	V
5	47.2362	40.96	Qp	14.6	-31.7	23.86	40	-16.14	157	104	V
3	480.115	34.96	Qp	23.6	-29.1	29.46	46.02	-16.56	240	166	H
6	480.14	37.35	Qp	23.6	-29.1	31.85	46.02	-14.17	189	103	V

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

9.2.4. ISED TX SPURIOUS EMISSION (30 - 1000 MHz)



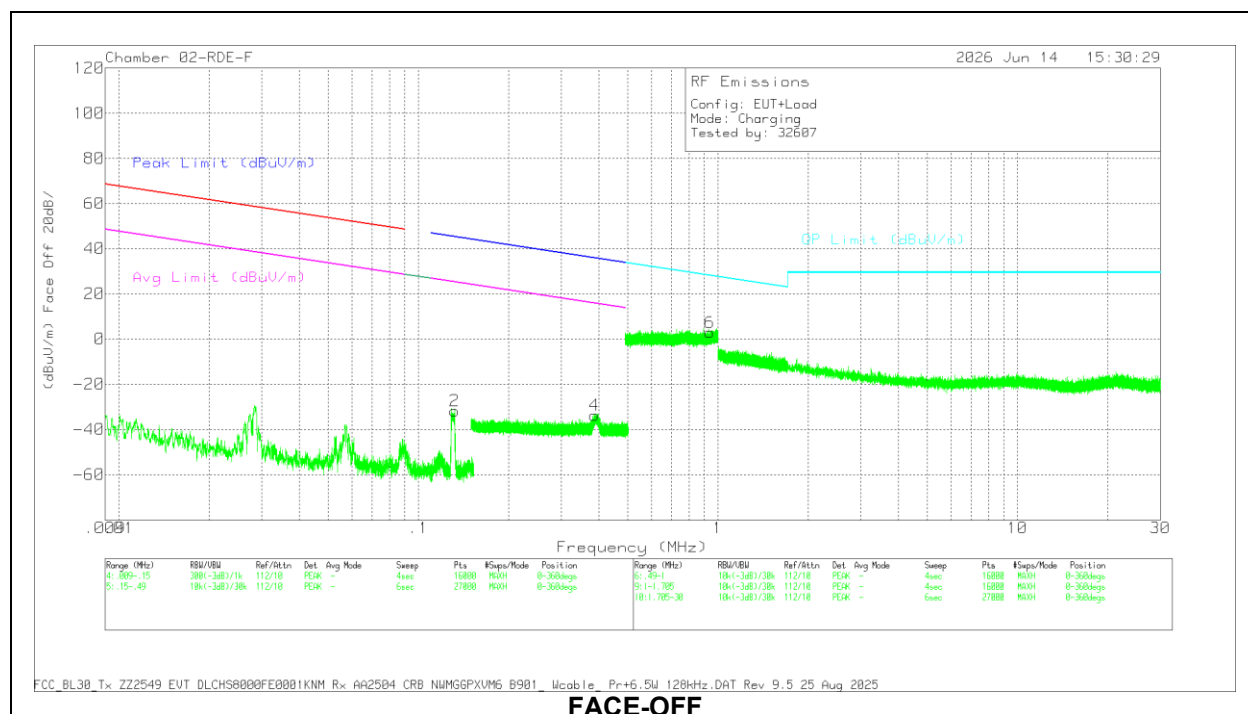
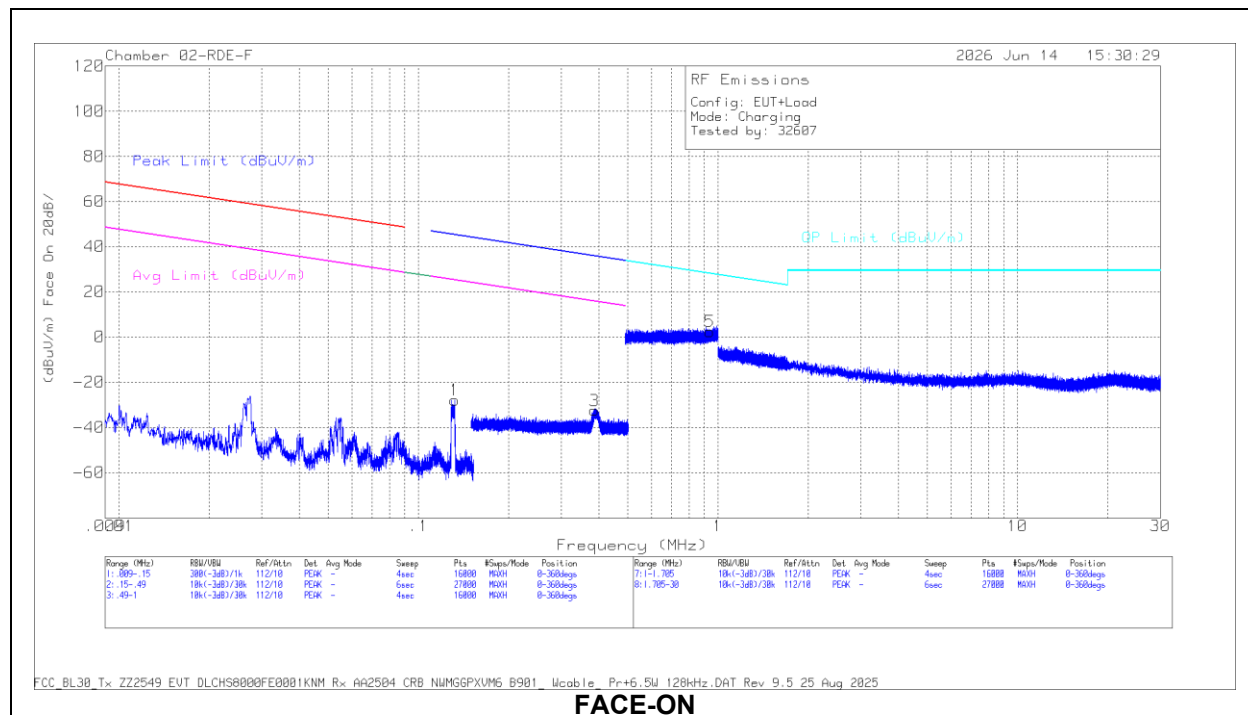
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	RSS-216 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	31.0319	22.5	Qp	26.3	-31.6	-10.5	6.7	30	-23.3	87	195	H
4	31.2109	29.73	Qp	26.2	-31.7	-10.5	13.73	30	-16.27	17	117	V
5	47.9804	41.9	Qp	14.2	-31.5	-10.5	14.1	30	-15.9	135	108	V
2	130.116	31.28	Qp	19.6	-31.2	-10.5	9.18	30	-20.82	116	218	H
3	479.615	34.95	Qp	23.6	-29.3	-10.5	18.75	37	-18.25	101	197	H
6	482.59	34.93	Qp	23.6	-29.3	-10.5	18.73	37	-18.27	174	101	V

Qp - Quasi-Peak detector

9.3. CONFIGURATION 3: OPERATING MODE W/ LOAD 2 127.7kHz

9.3.1. FCC TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)



DATA

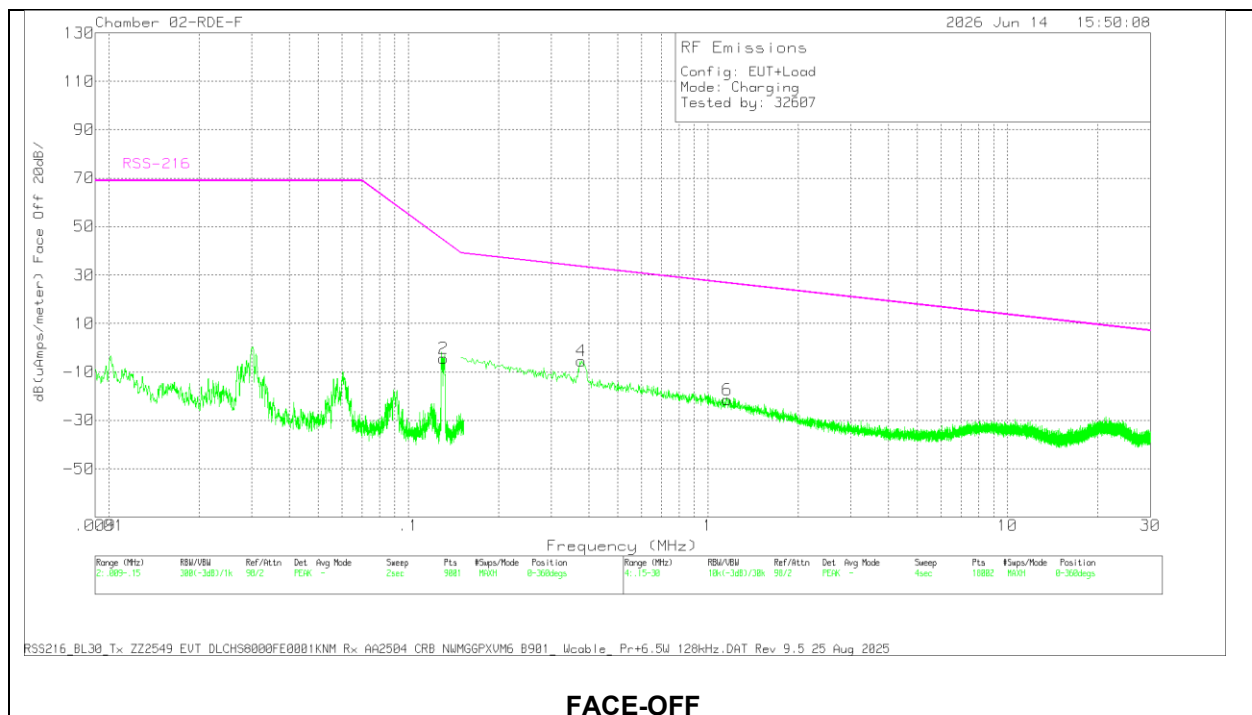
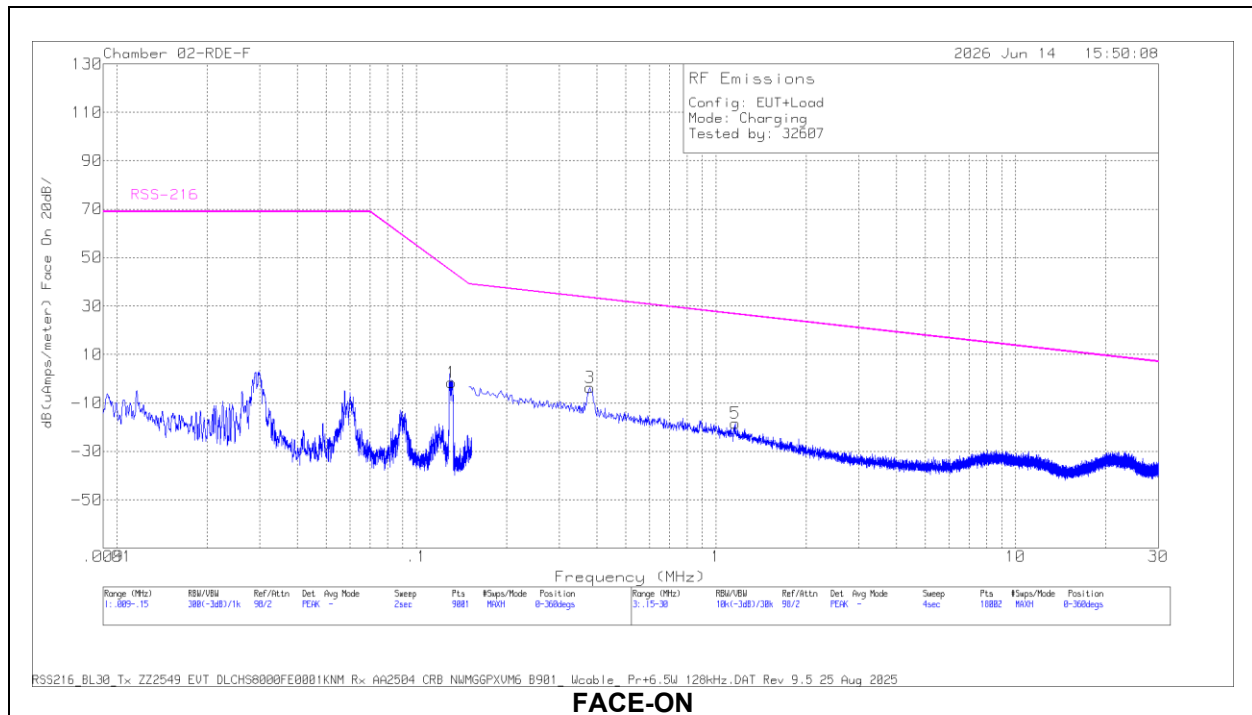
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1321	29.06	Pk	55.8	-32.6	-80	-27.74	45.21	-72.95	25.21	-52.95	0-360	Face-on
2	.1321	25.15	Pk	55.8	-32.6	-80	-31.65	45.21	-76.86	25.21	-56.86	0-360	Face-off
3	.3878	23.99	Pk	56.2	-32.6	-80	-32.41	35.84	-68.25	15.84	-48.25	0-360	Face-on
4	.3876	22.77	Pk	56.2	-32.6	-80	-33.63	35.84	-69.47	15.84	-49.47	0-360	Face-off

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
5	.9385	18.43	Pk	56.4	-32.3	-40	2.53	28.17	-25.64	0-360	Face-on
6	.9387	18.81	Pk	56.4	-32.3	-40	2.91	28.17	-25.26	0-360	Face-off

Pk - Peak detector

9.3.2. ISED TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)

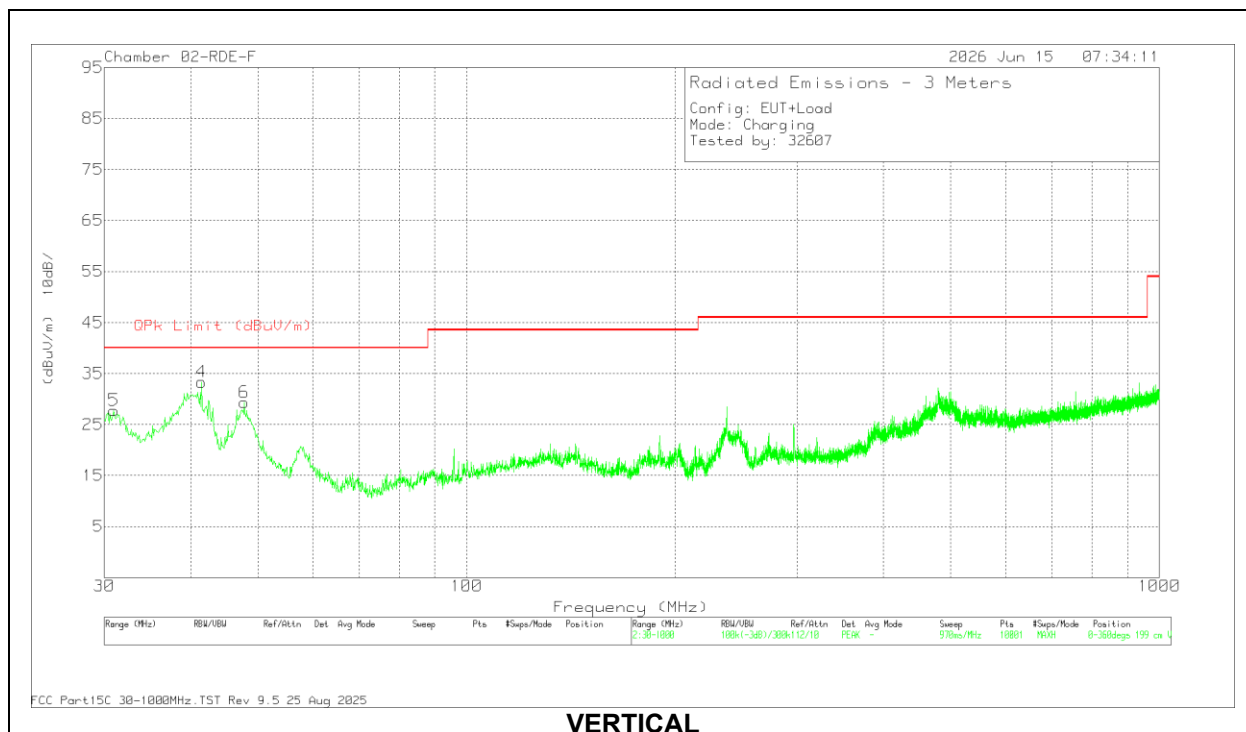
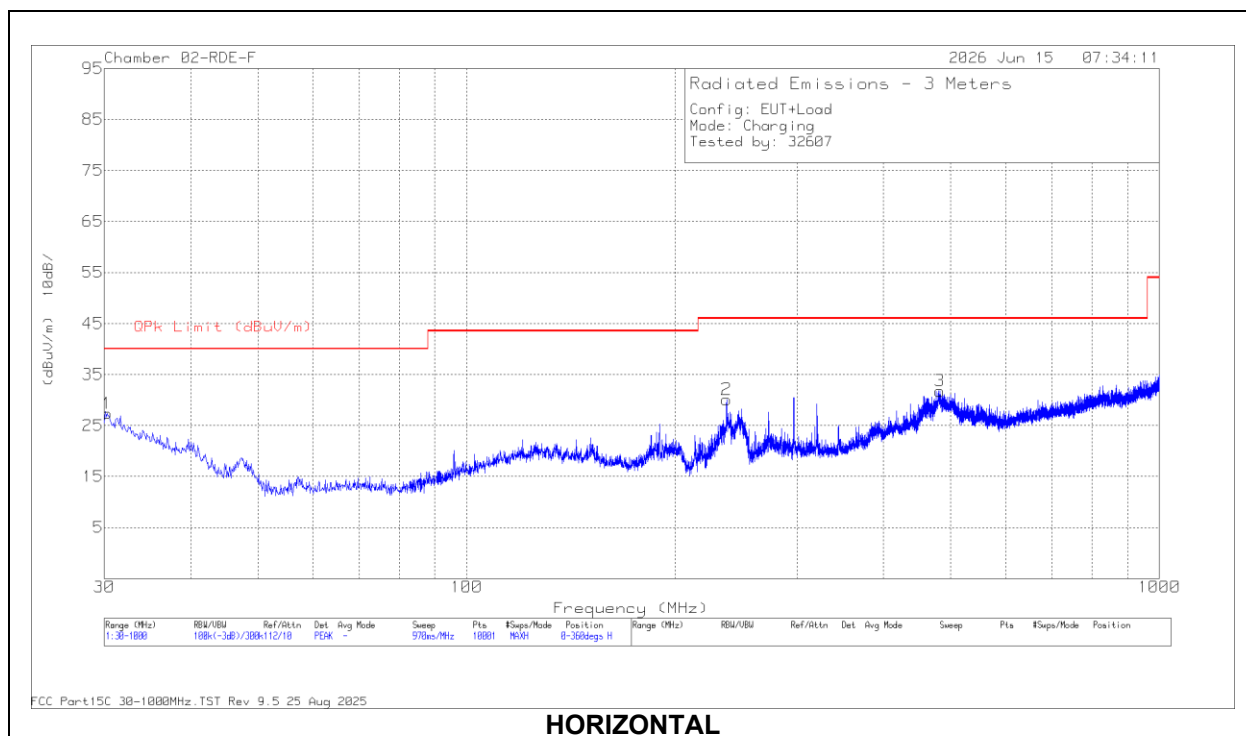


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Amp/Cbl (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Limit (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1306	26.68	Pk	4.3	-32.5	-1.52	44.44	-45.96	0-360	Face-on
2	.1308	23.78	Pk	4.3	-32.5	-4.42	44.4	-48.82	0-360	Face-off
3	.3805	26.04	Pk	2.9	-32.5	-3.56	33.38	-36.94	0-360	Face-on
4	.3772	23.97	Pk	2.9	-32.4	-5.53	33.43	-38.96	0-360	Face-off
5	1.1597	19.54	Pk	-5.5	-32.4	-18.36	26.65	-45.01	0-360	Face-on
6	1.1597	16.35	Pk	-5.5	-32.4	-21.55	26.65	-48.2	0-360	Face-off

Pk - Peak detector

9.3.3. FCC TX SPURIOUS EMISSION (30 - 1000 MHz)

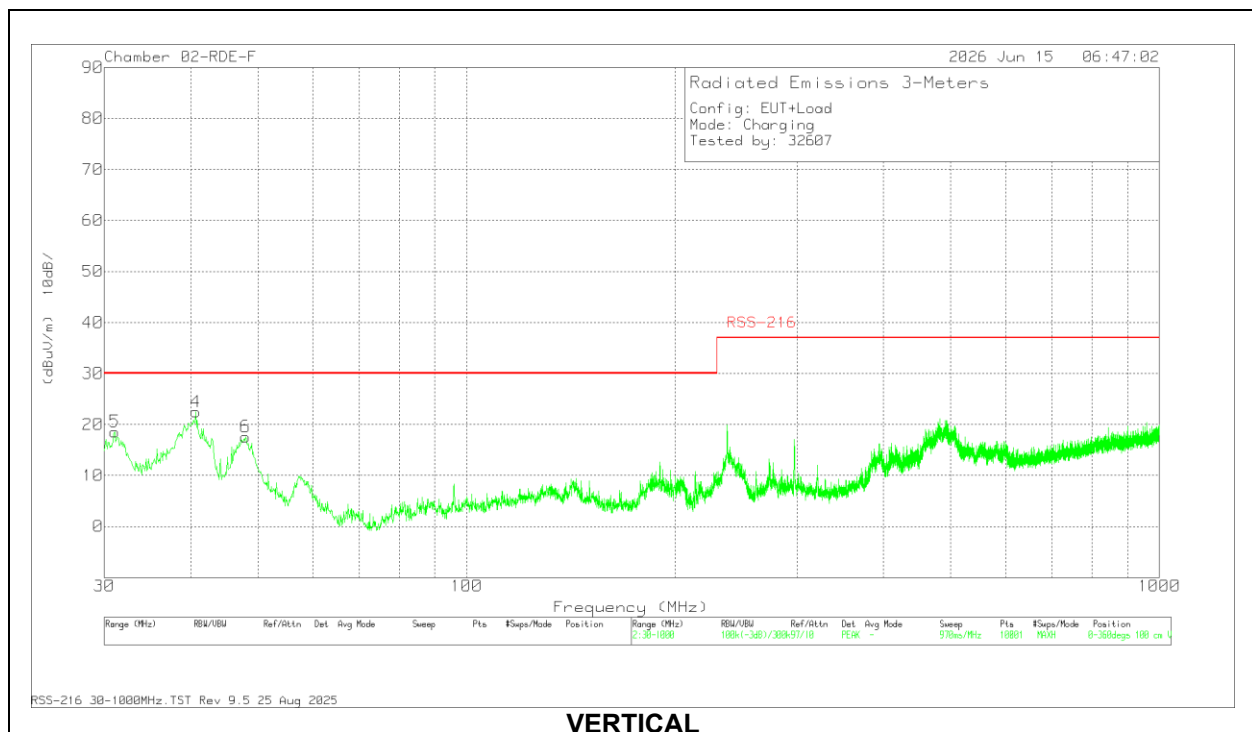
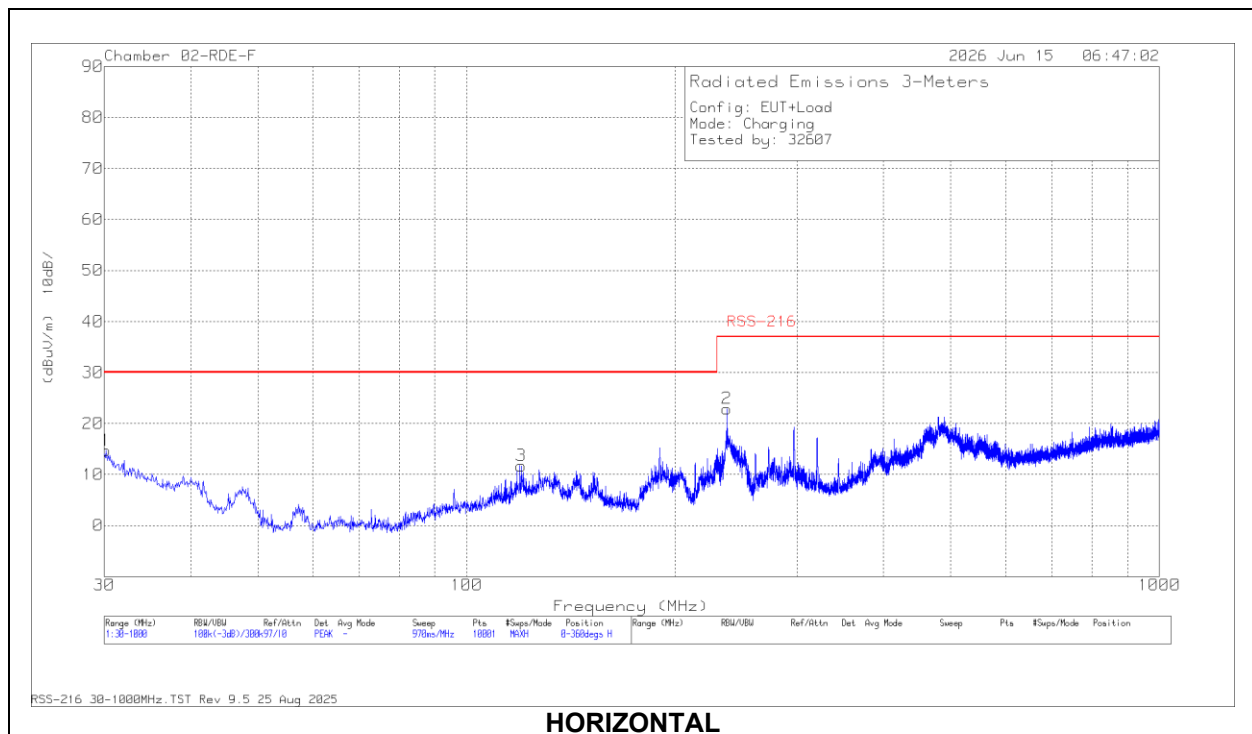


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	31.5764	27.23	Qp	25.9	-31.7	21.43	40	-18.57	290	118	V
1	31.6099	21.68	Qp	25.9	-31.7	15.88	40	-24.12	336	259	H
4	40.5771	38.93	Qp	19.1	-31.5	26.53	40	-13.47	61	108	V
6	48.0055	40.86	Qp	14.2	-31.3	23.76	40	-16.24	228	119	V
2	237.576	40.92	Qp	17.3	-29.9	28.32	46.02	-17.7	248	107	H
3	479.909	34.78	Qp	23.6	-28.8	29.58	46.02	-16.44	220	175	H

Qp - Quasi-Peak detector

9.3.4. ISED TX SPURIOUS EMISSION (30 - 1000 MHz)



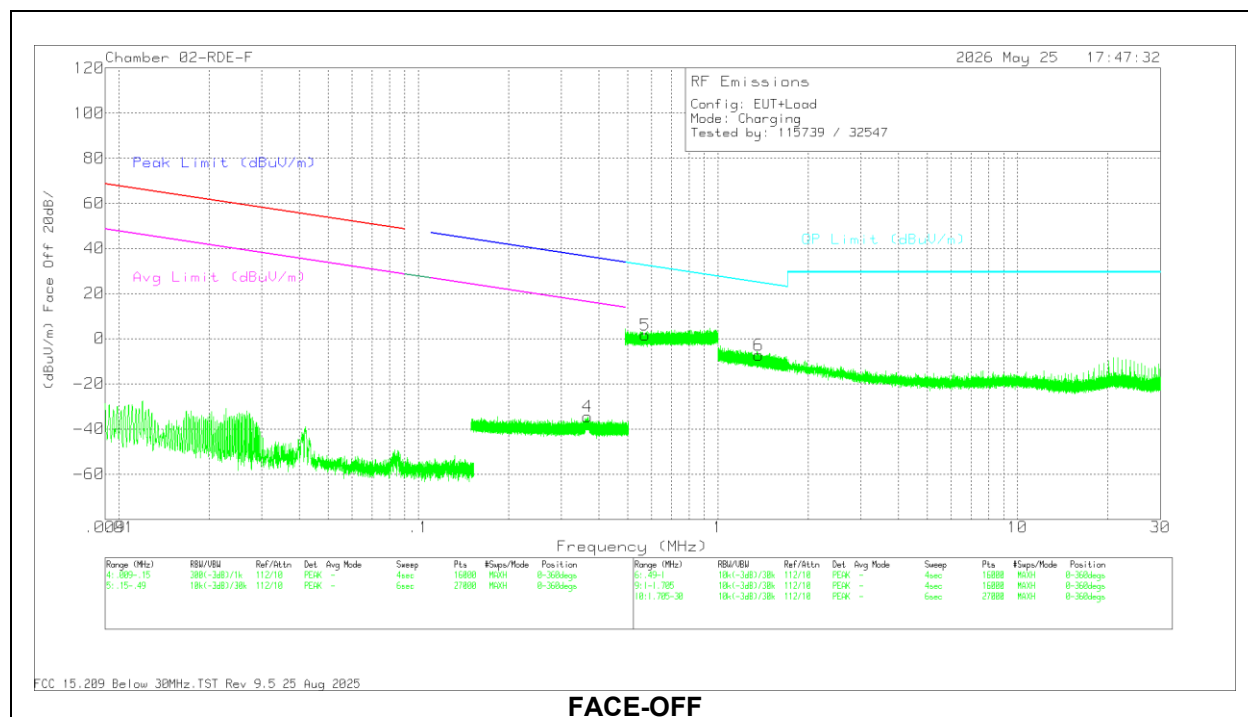
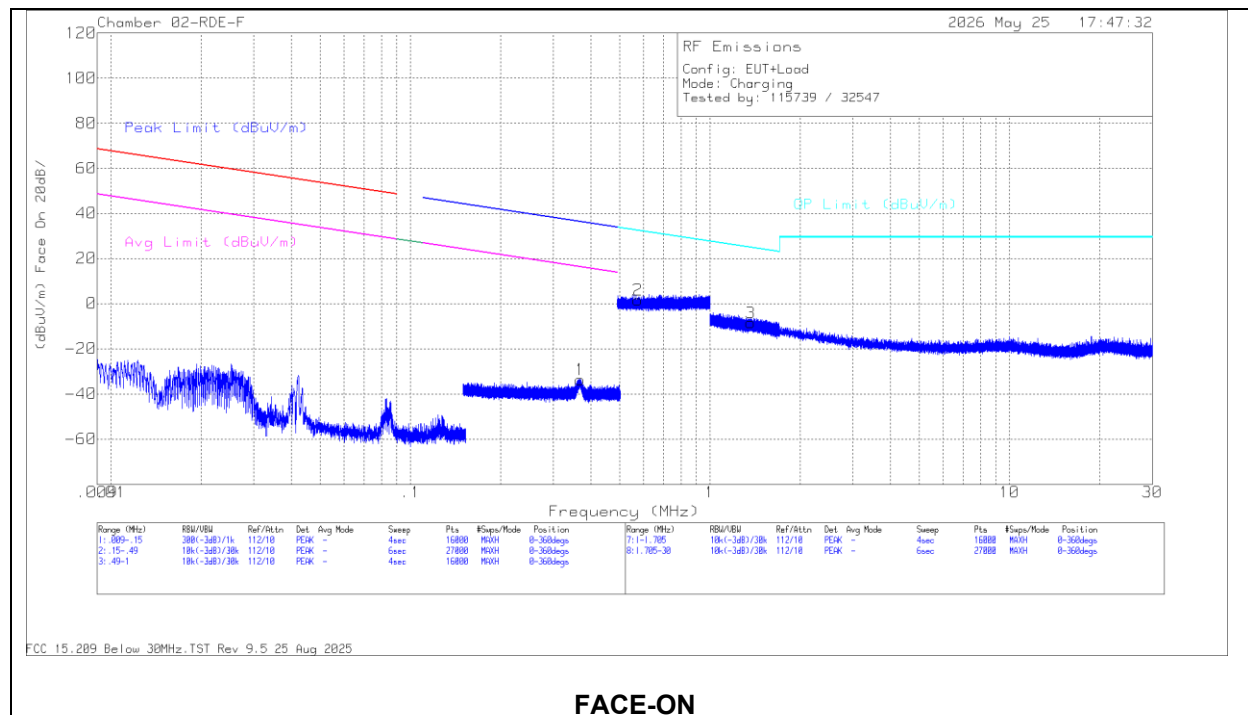
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	RSS-216 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.6941	22.15	Qp	26.5	-31.4	-10.5	6.75	30	-23.25	110	159	H
5	32.148	24.99	Qp	25.5	-31.8	-10.5	8.19	30	-21.81	341	145	V
4	47.9736	40.71	Qp	14.2	-31.3	-10.5	13.11	30	-16.89	127	153	V
6	47.9985	40.43	Qp	14.2	-31.3	-10.5	12.83	30	-17.17	84	151	V
3	119.598	25.37	Qp	19.6	-30.7	-10.5	3.77	30	-26.23	266	158	H
2	237.47	40.21	Qp	17.3	-29.8	-10.5	17.21	37	-19.79	231	129	H

Qp - Quasi-Peak detector

9.4. CONFIGURATION 4: OPERATING MODE W/ LOAD 1 360kHz

9.4.1. FCC TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)



DATA

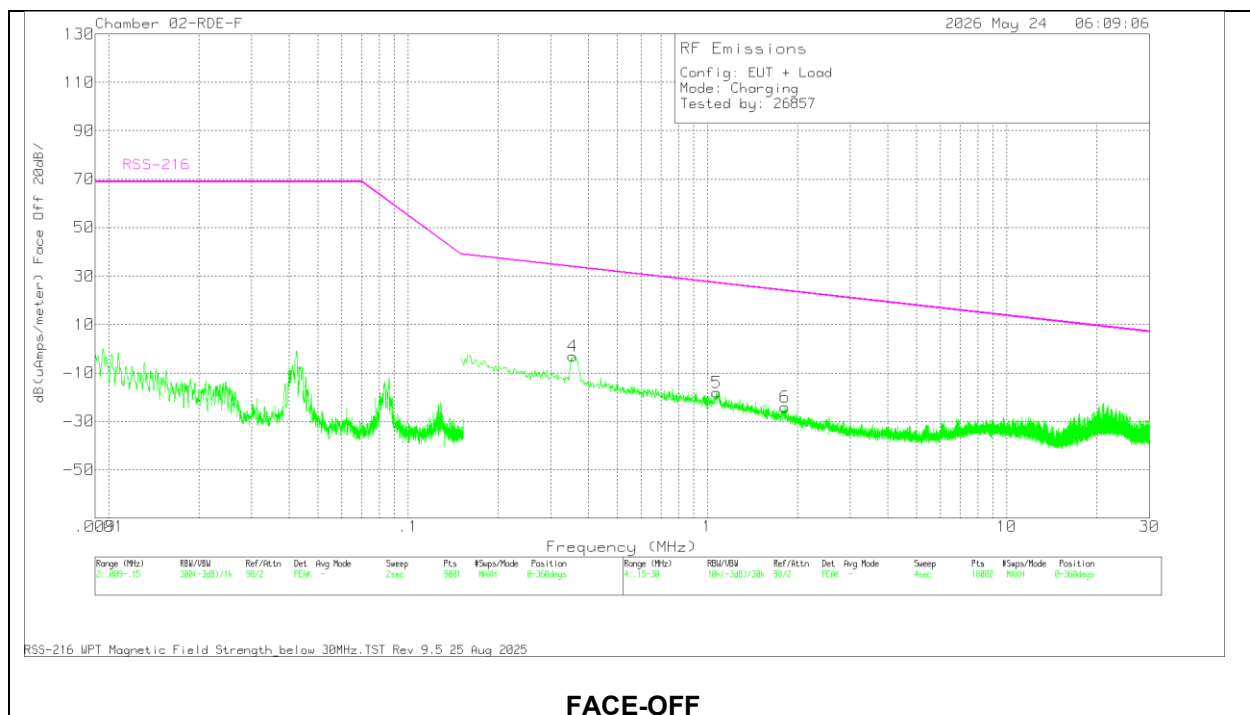
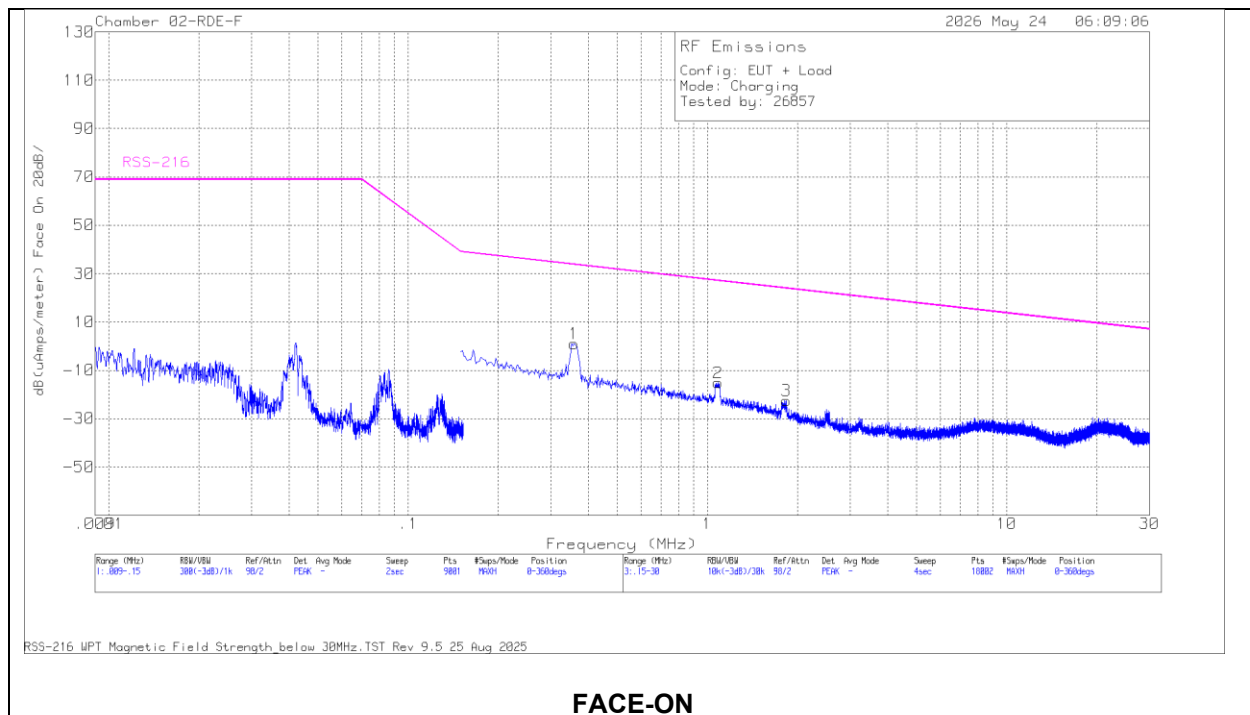
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.3684	22.49	Pk	56.2	-32.3	-80	-33.61	36.28	-69.89	16.28	-49.89	0-360	Face-on
4	.3676	21.63	Pk	56.2	-32.3	-80	-34.47	36.3	-70.77	16.3	-50.77	0-360	Face-off

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
2	.5737	18.15	Pk	56.2	-32.7	-40	1.65	32.43	-30.78	0-360	Face-on
3	1.3655	18.9	Pk	44.9	-32.3	-40	-8.5	24.92	-33.42	0-360	Face-on
5	.573	18.05	Pk	56.2	-32.7	-40	1.55	32.44	-30.89	0-360	Face-off
6	1.3647	20.14	Pk	44.9	-32.3	-40	-7.26	24.93	-32.19	0-360	Face-off

Pk - Peak detector

9.4.2. ISED TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)

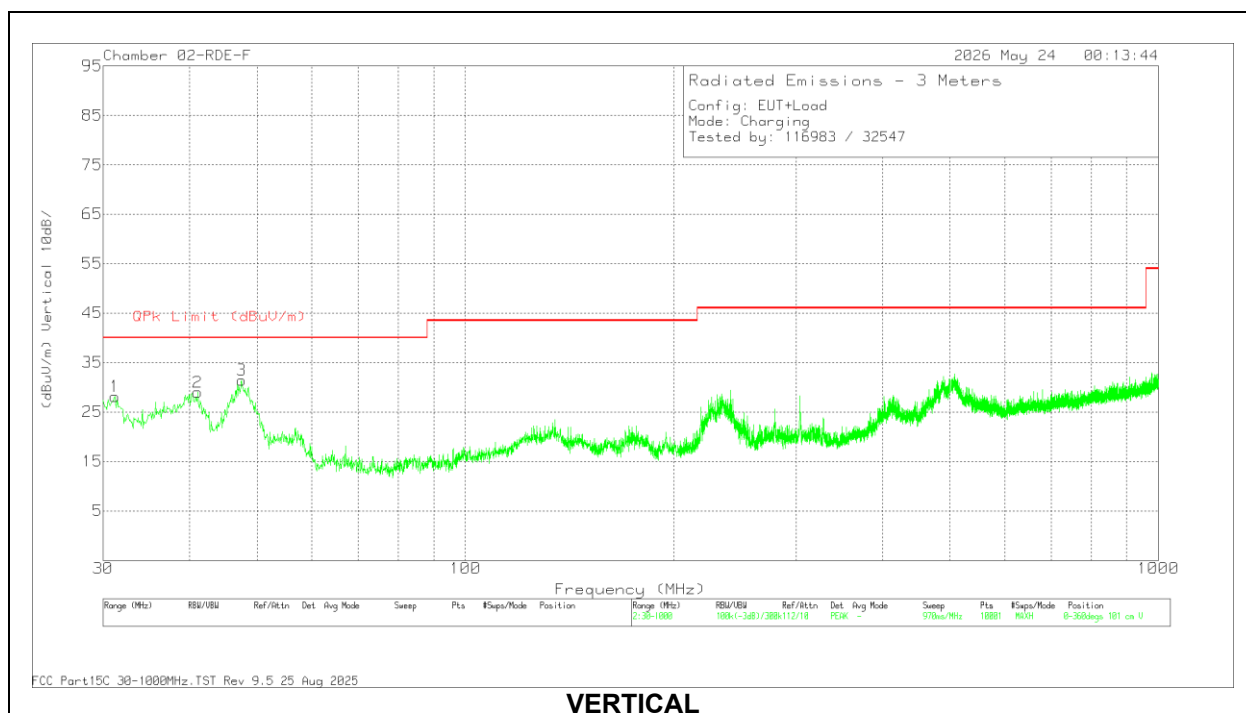
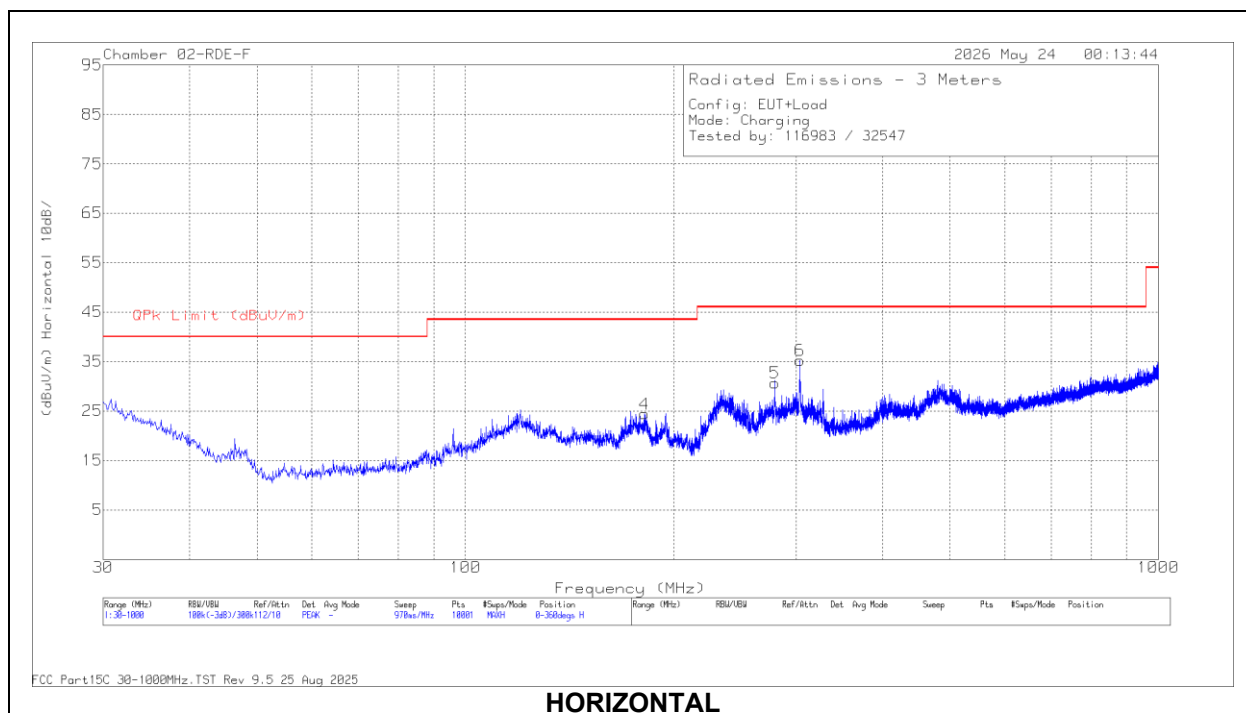


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Amp/Cbl (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Limit (dBµA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.3589	30.01	Pk	3.4	-32.3	1.11	33.73	-32.62	0-360	Face-on
2	1.0868	22.55	Pk	-5.1	-32.6	-15.15	27.04	-42.19	0-360	Face-on
3	1.8345	19.07	Pk	-9.1	-32.5	-22.53	23.88	-46.41	0-360	Face-on
4	.3556	25.71	Pk	3.5	-32.2	-2.99	33.79	-36.78	0-360	Face-off
5	1.0735	19.58	Pk	-5.1	-32.5	-18.02	27.11	-45.13	0-360	Face-off
6	1.8146	17.37	Pk	-9	-32.4	-24.03	23.94	-47.97	0-360	Face-off

Pk - Peak detector

9.4.3. FCC TX SPURIOUS EMISSION (30 - 1000 MHz)

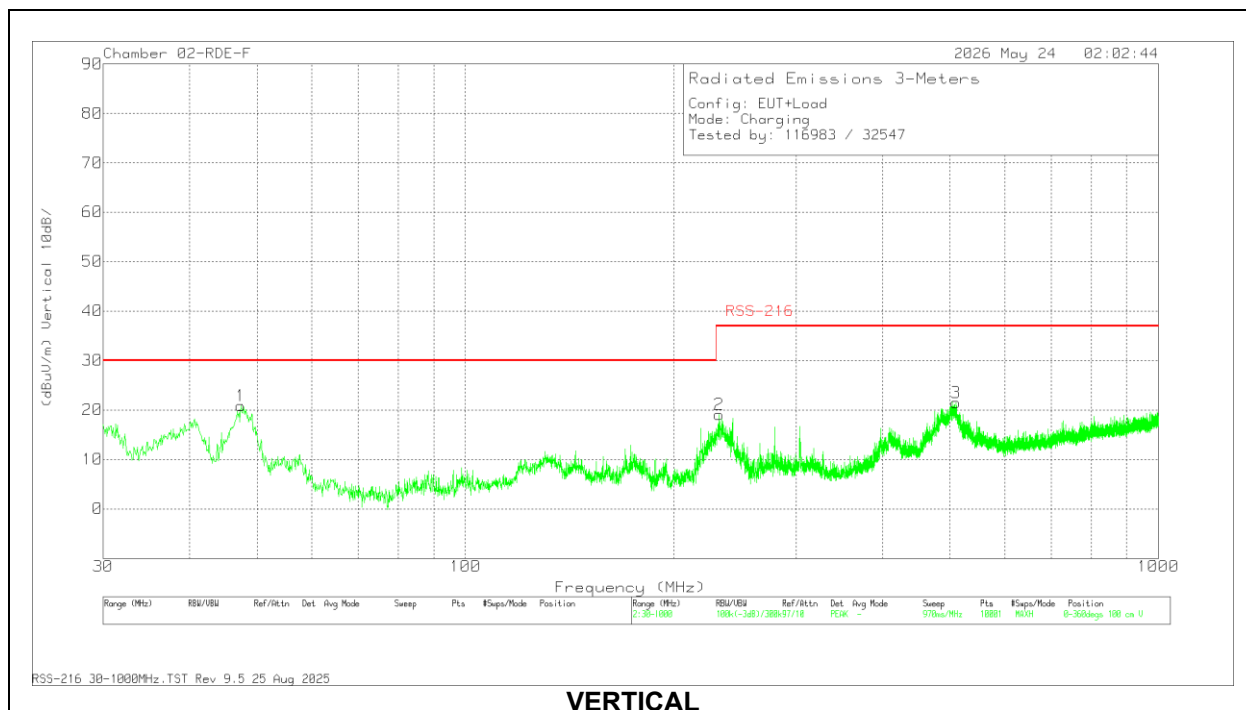
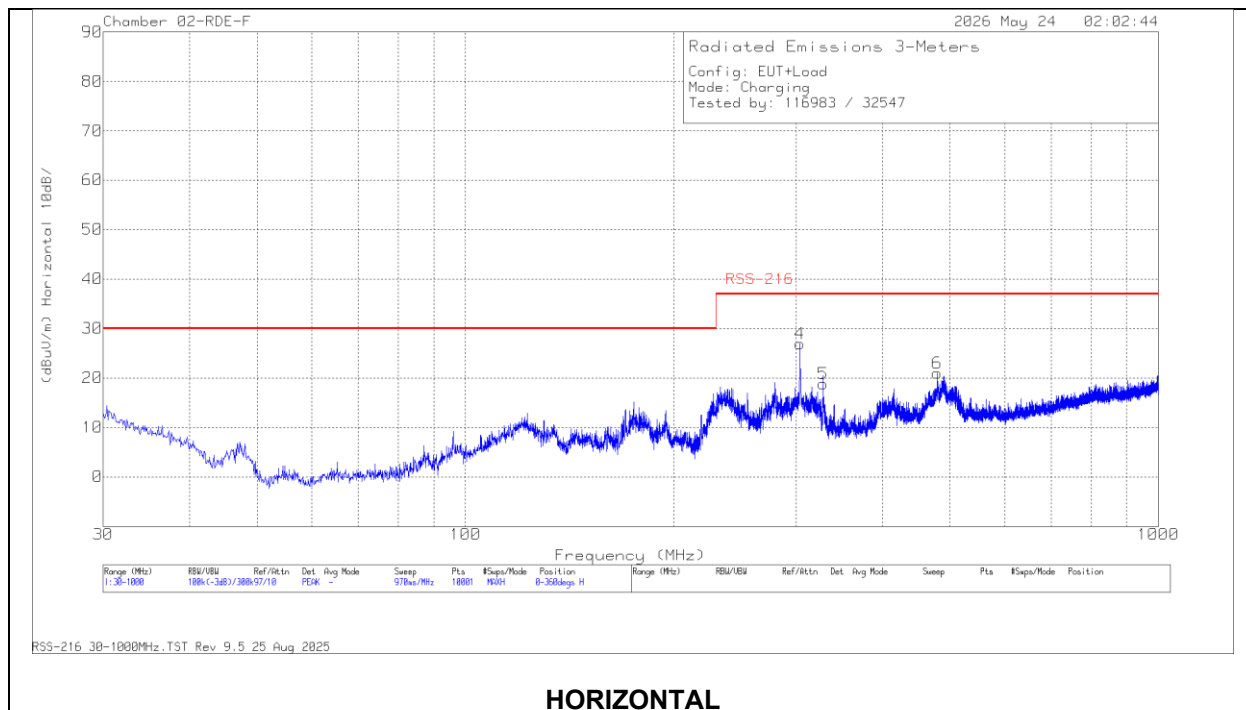


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 279.129	38.65	Qp	19.3	-30.1	27.85	46.02	-18.17	154	107	H
1	30.8157	27.46	Qp	26.4	-31.7	22.16	40	-17.84	315	122	V
2	40.612	37.51	Qp	19.1	-31.6	25.01	40	-14.99	62	146	V
3	47.6585	44.45	Qp	14.4	-31.6	27.25	40	-12.75	107	125	V
4	174.547	33.46	Qp	17.3	-30.7	20.06	43.52	-23.46	144	150	H
6	303.371	42.5	Qp	19.4	-29.8	32.1	46.02	-13.92	151	101	H

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

9.4.4. ISED TX SPURIOUS EMISSION (30 - 1000 MHz)



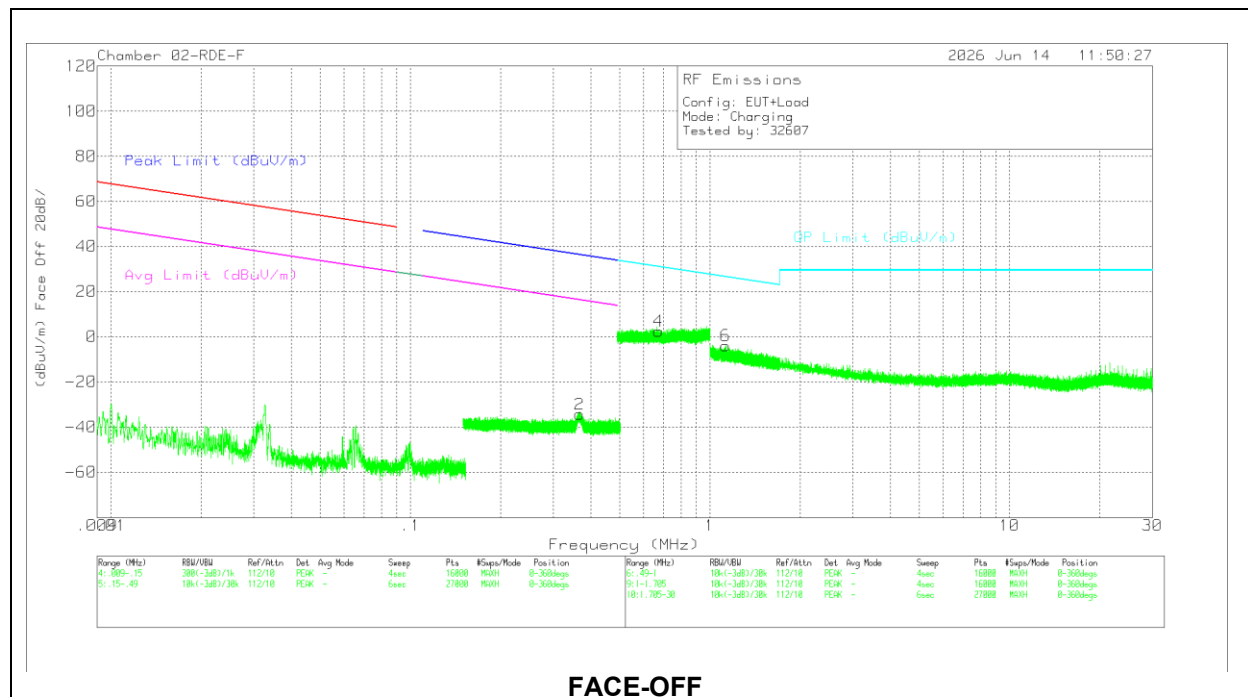
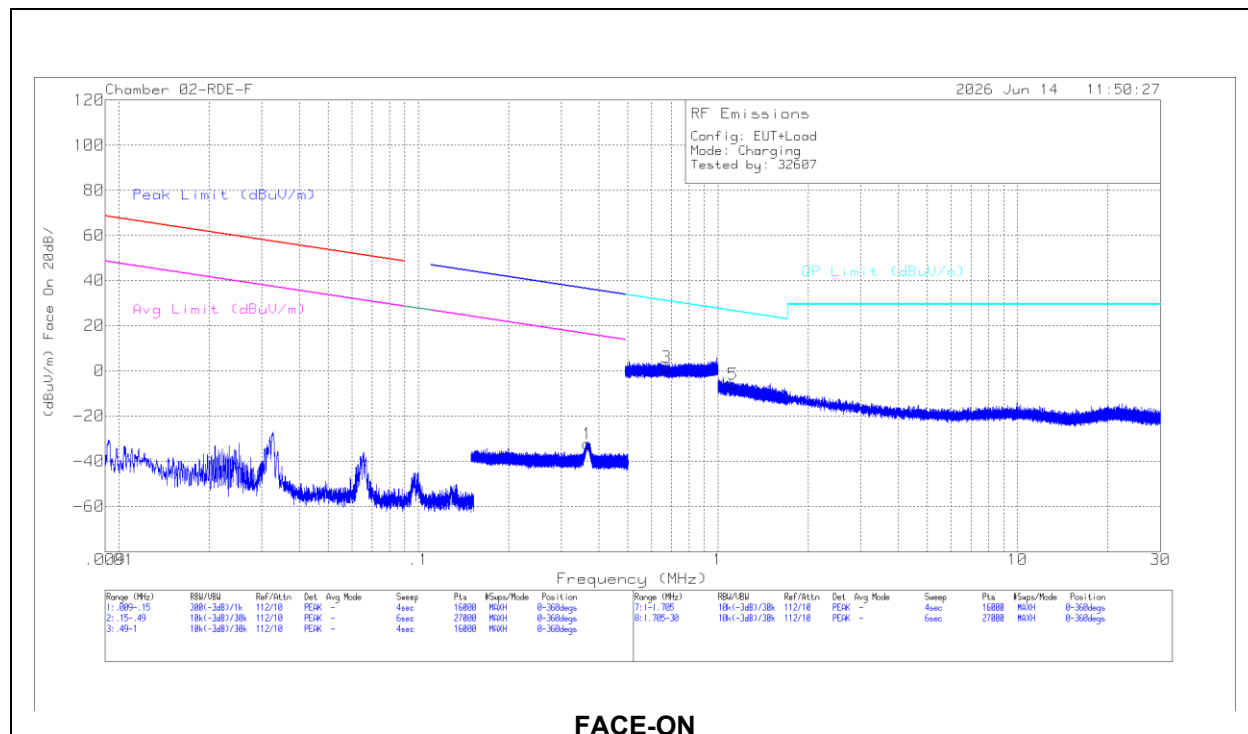
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	RSS-216 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	48.1563	44.93	Qp	14.2	-31.5	-10.5	17.13	30	-12.87	94	109	V
2	235.667	37.79	Qp	17.2	-30.3	-10.5	14.19	37	-22.81	195	205	V
4	303.482	45.15	Qp	19.4	-29.8	-10.5	24.25	37	-12.75	248	100	H
5	327.726	39.44	Qp	19.8	-30.1	-10.5	18.64	37	-18.36	245	101	H
6	480.008	34.59	Qp	23.6	-29.1	-10.5	18.59	37	-18.41	229	188	H
3	509.467	32.45	Qp	23.6	-29.2	-10.5	16.35	37	-20.65	177	205	V

Qp - Quasi-Peak detector

9.5. CONFIGURATION 5: OPERATING MODE W/ LOAD 2 360kHz

9.5.1. FCC TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)



DATA

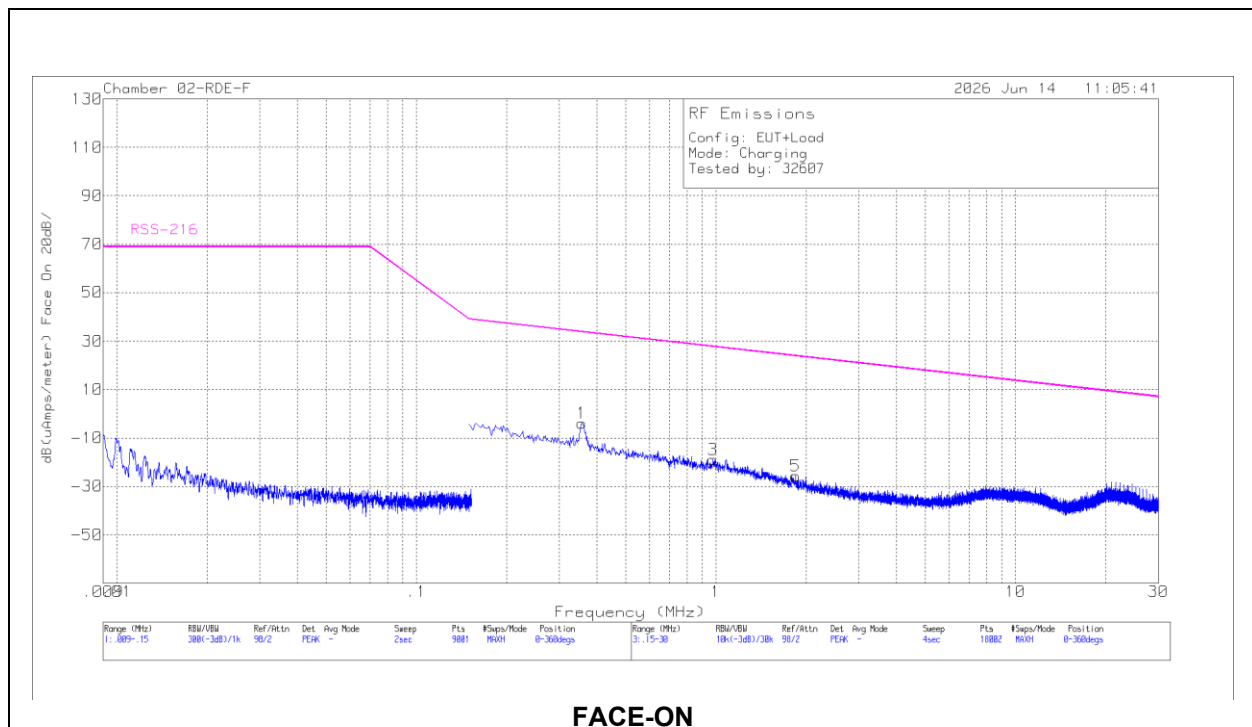
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.3675	23.79	Pk	56.2	-32.3	-80	-32.31	36.3	-68.61	16.3	-48.61	0-360	Face-on
2	.3677	21.77	Pk	56.2	-32.3	-80	-34.33	36.3	-70.63	16.3	-50.63	0-360	Face-off

Pk - Peak detector

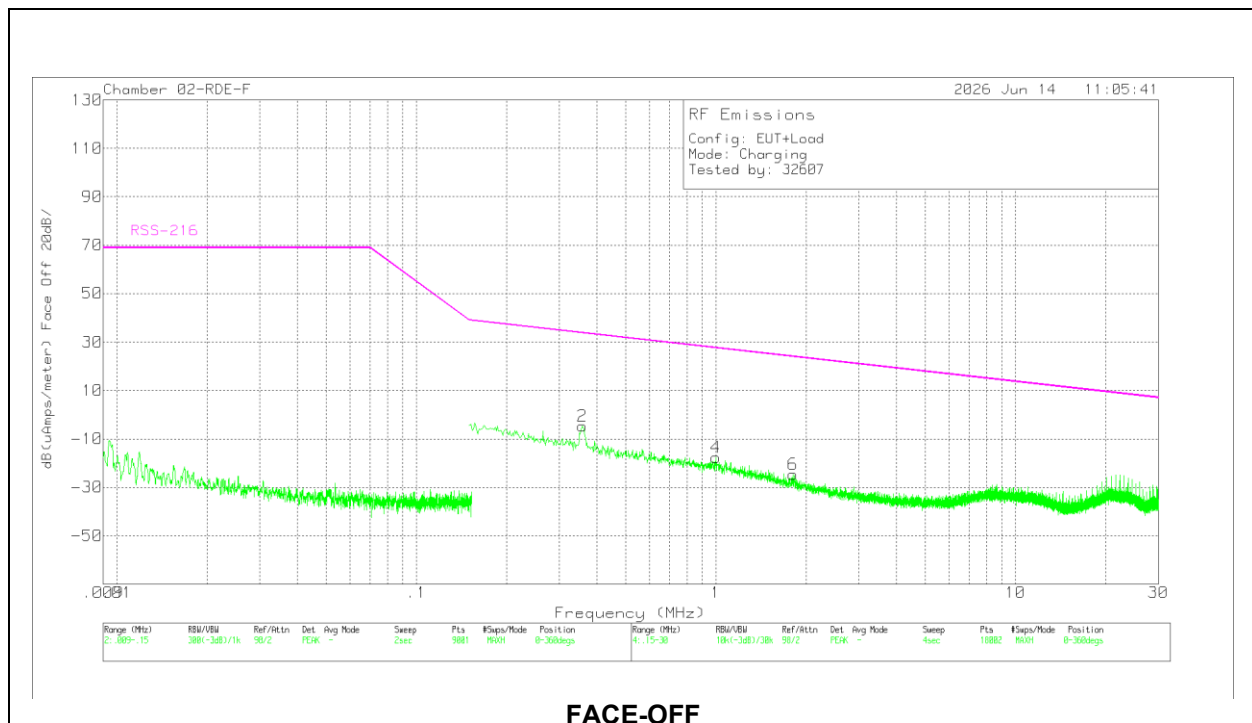
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
3	.6721	18.04	Pk	56.3	-32.6	-40	1.74	31.06	-29.32	0-360	Face-on
4	.6727	18.72	Pk	56.3	-32.6	-40	2.42	31.06	-28.64	0-360	Face-off
5	1.1243	20.53	Pk	46.2	-32.5	-40	-5.77	26.61	-32.38	0-360	Face-on
6	1.1254	22.2	Pk	46.2	-32.4	-40	-4	26.6	-30.6	0-360	Face-off

Pk - Peak detector

9.5.2. ISED TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)



FACE-ON



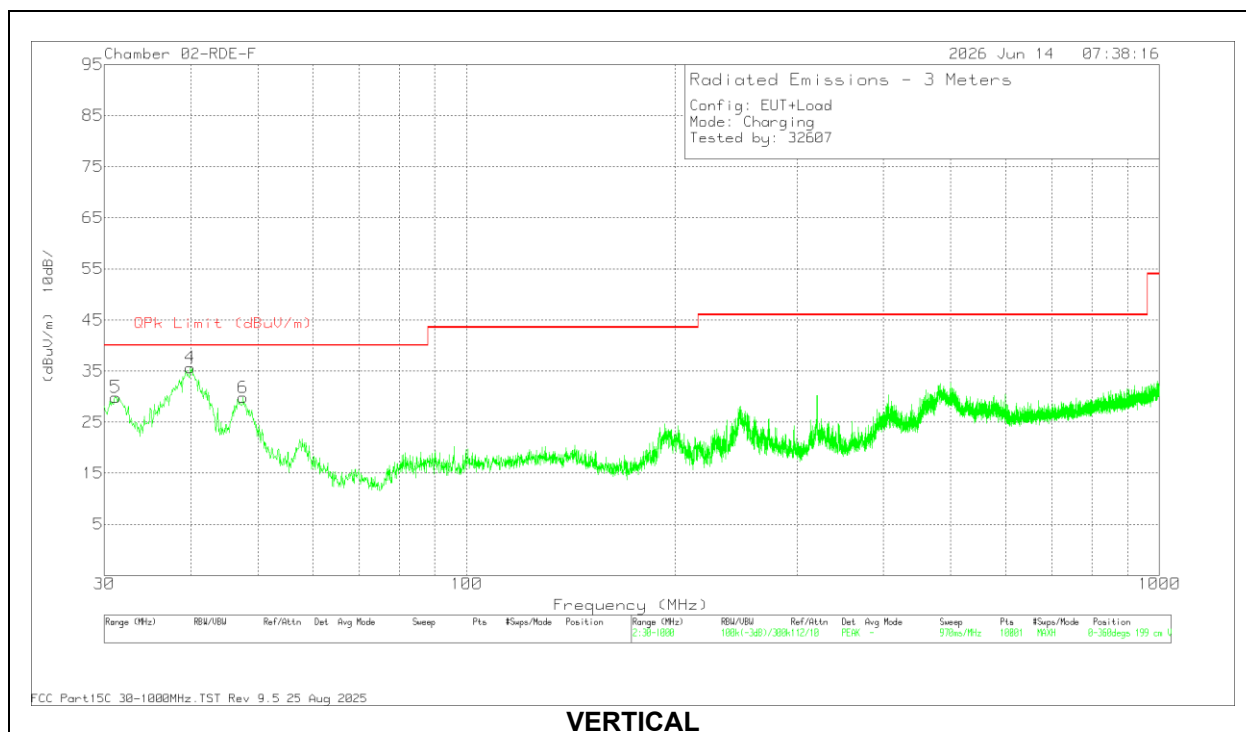
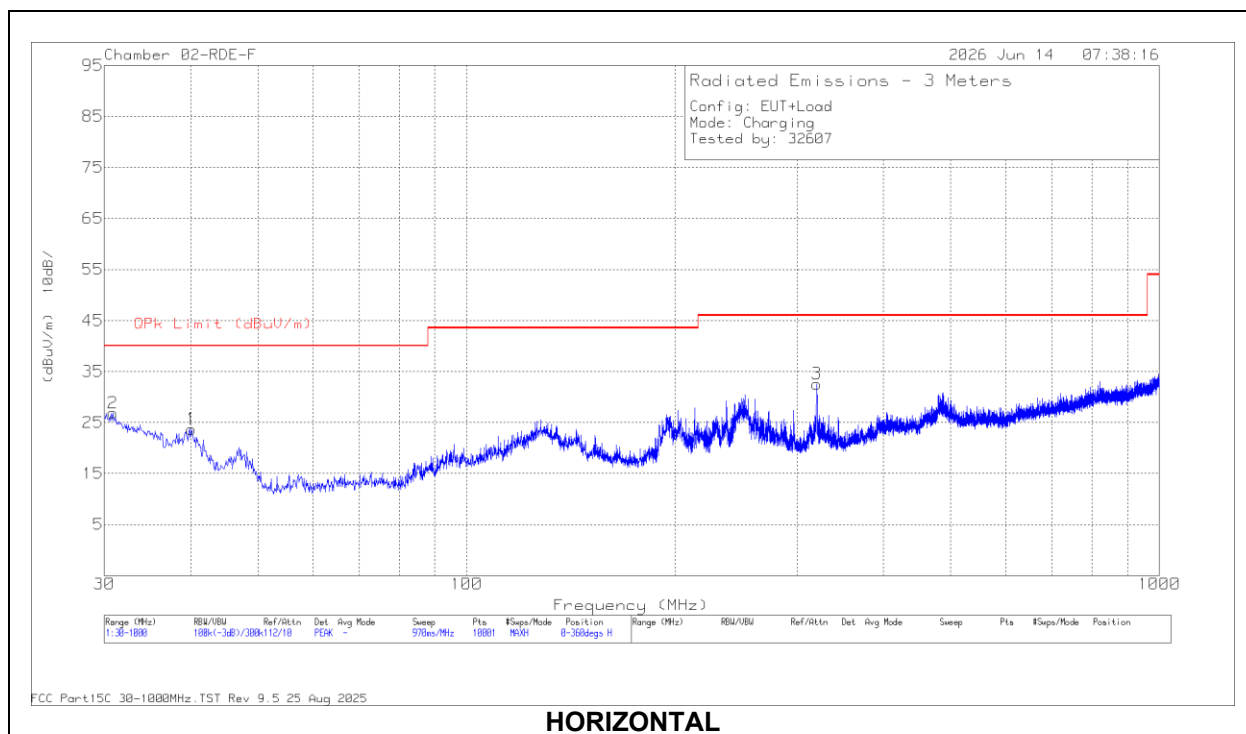
FACE-OFF

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Amp/Cbl (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Limit (dBμA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.3573	24.79	Pk	3.5	-32.2	-3.91	33.76	-37.67	0-360	Face-on
2	.3589	24.1	Pk	3.4	-32.2	-4.7	33.73	-38.43	0-360	Face-off
3	.9773	17.48	Pk	-4.6	-31.8	-18.92	27.68	-46.6	0-360	Face-on
4	.9989	18.56	Pk	-4.7	-31.5	-17.64	27.55	-45.19	0-360	Face-off
5	1.8412	15.87	Pk	-9.1	-32.4	-25.63	23.86	-49.49	0-360	Face-on
6	1.8063	16.43	Pk	-8.9	-32.2	-24.67	23.97	-48.64	0-360	Face-off

Pk - Peak detector

9.5.3. FCC TX SPURIOUS EMISSION (30 - 1000 MHz)

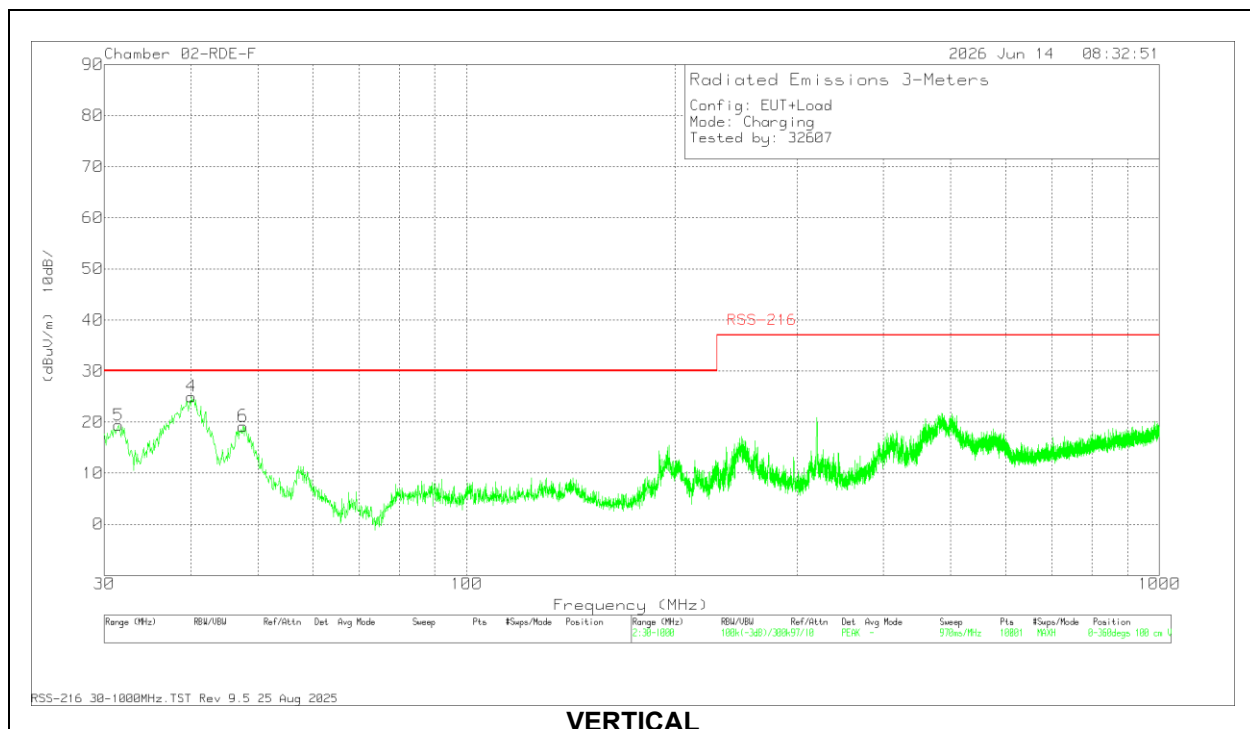
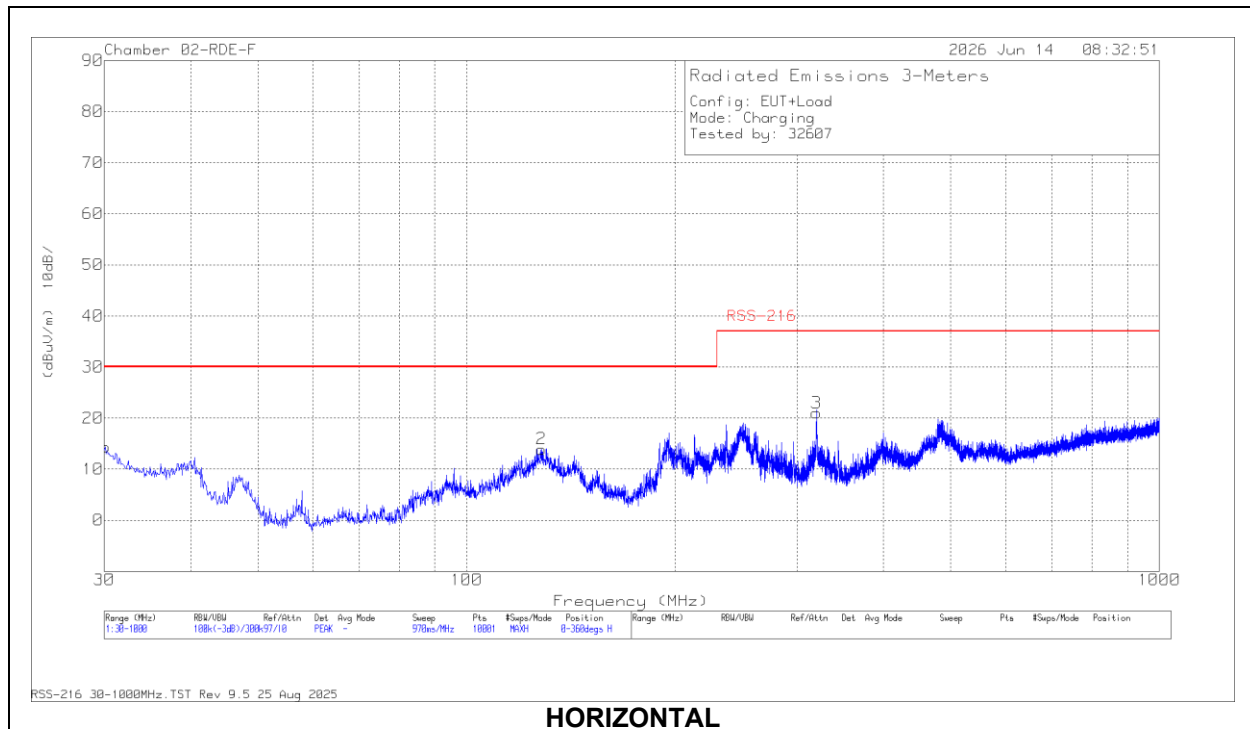


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	30.2715	22.09	Qp	26.7	-31.3	17.49	40	-22.51	198	131	H
5	31.4878	30.85	Qp	26	-31.6	25.25	40	-14.75	12	126	V
4	40.176	43.04	Qp	19.5	-31.4	31.14	40	-8.86	4	110	V
1	40.3725	29.46	Qp	19.3	-31.5	17.26	40	-22.74	142	281	H
6	47.4465	42.52	Qp	14.5	-31.2	25.82	40	-14.18	127	104	V
3	320.483	39.35	Qp	19.8	-29.5	29.65	46.02	-16.37	264	109	H

Qp - Quasi-Peak detector

9.5.4. ISED TX SPURIOUS EMISSION (30 - 1000 MHz)



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	RSS-216 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	31.3814	26.47	Qp	26	-31.6	-10.5	10.37	30	-19.63	347	110	V
1	31.9537	21.56	Qp	25.6	-31.8	-10.5	4.86	30	-25.14	16	221	H
4	39.7395	39.48	Qp	19.8	-31.5	-10.5	17.28	30	-12.72	15	107	V
6	48.023	38.74	Qp	14.2	-31.3	-10.5	11.14	30	-18.86	138	117	V
2	130.454	27.13	Qp	19.6	-30.9	-10.5	5.33	30	-24.67	282	260	H
3	320.488	39.79	Qp	19.8	-29.5	-10.5	19.59	37	-17.41	256	100	H

Qp - Quasi-Peak detector

10. FREQUENCY STABILITY

LIMIT

RSS-216 §The frequency stability requirements with respect to ambient temperature specified in subclause 10.4.2 of ANSI C63.30-2021 shall apply only for WPT source devices intended for outdoor operation. This test shall be performed at the rated power supply voltage and for three ambient temperatures: -20°C, +20°C and +50°C.

The frequency stability with respect to power supply voltage shall apply to all WPT source devices.

TEST PROCEDURE

ANSI C63.30-2021 Clause 10.4.2

RESULTS

No non-compliance noted.

ID:	32547	Date:	6/04/2026
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10.1. CONFIGURATION 2: OPERATING MODE 127.7kHz W/ LOAD #1

Temperature (°C)	Voltage	Start Up		@ 2 mins		@ 5 mins		@ 10 mins		Signal Level (dBuA)	Correction Factor*	Corrected Signal Level (dBuA/m)	Limit (dBuA/m)	Within Authorized Frequency Band (based on 99% BW) (Yes or No)	Result (Pass / Fail)
		Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)						
+50°C	Normal	126.65125	39.957	126.22165	36.717	126.50405	27.728	126.37788	27.664	39.9570	-33.5110	6.4460	44.030	Yes	Pass
+20°C (Normal)		126.222209	37.55	126.221573	37.56	126.504558	37.47	126.652170	37.52	37.5610	-33.5110	4.0500		Yes	Pass
-20°C		126.650802	34.17	126.644501	33.72	126.652513	33.57	126.505048	33.74	34.1670	-33.5110	0.6560		Yes	Pass
+20°C	85% (or manufacturer declared min)	126.647605	37.61	126.221950	37.56	126.649470	37.39	126.363289	37.75	37.7450	-33.5110	4.234	44.030	Yes	Pass
	115% (or manufacturer declared max)	126.372623	35.73	126.635646	35.23	126.637356	35.12	126.219783	35.19	35.7270	-33.5110	2.216		Yes	Pass

*Note: Field strength at 3m at nominal temperature of 20°C was H-Filed dBuA/m. Correction factor is the difference between the signal level measured in the environment chamber using the small loop antenna at nominal temperature and the field strength, H-dBuA/m, measured at 3m.

10.2. CONFIGURATION 3: OPERATING MODE 127.7kHz W/ LOAD #2

Temperature (°C)	Voltage	Start Up		@ 2 mins		@ 5 mins		@ 10 mins		Signal Level (dBuA)	Correction Factor*	Corrected Signal Level (dBuA/m)	Limit (dBuA/m)	Within Authorized Frequency Band (based on 99% BW) (Yes or No)	Result (Pass / Fail)
		Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)						
+50°C	Normal	126.6349	29.017	126.50737	28.745	126.47316	17.438	126.65118	17.374	29.0170	-30.9190	-1.9020	44.440	Yes	Pass
+20°C (Normal)		126.649868	29.31	126.649051	29.31	126.210794	29.35	126.249544	29.40	29.3990	-30.9190	-1.5200		Yes	Pass
-20°C		126.383622	29.64	126.221374	28.52	126.323732	28.34	126.644692	28.79	29.6380	-30.9190	-1.2810		Yes	Pass
+20°C	85% (or manufacturer declared min)	126.210647	29.19	126.538514	29.15	126.620639	29.87	126.646776	29.65	29.8680	-30.9190	-1.051	44.440	Yes	Pass
	115% (or manufacturer declared max)	126.647211	29.79	126.640745	29.82	126.642342	29.71	126.210228	29.19	29.8190	-30.9190	-1.100		Yes	Pass

*Note: Field strength at 3m at nominal temperature of 20°C was H-Filed dBuA/m. Correction factor is the difference between the signal level measured in the environment chamber using the small loop antenna at nominal temperature and the field strength, H-dBuA/m, measured at 3m.

10.3. CONFIGURATION 4: OPERATING MODE 360kHz W/ LOAD #1

Temperature (°C)	Voltage	Start Up		@ 2 mins		@ 5 mins		@ 10 mins		Signal Level (dBuA)	Correction Factor*	Corrected Signal Level (dBuA/m)	Limit (dBuA/m)	Within Authorized Frequency Band (based on 99% BW) (Yes or No)	Result (Pass / Fail)
		Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)						
+50°C	Normal	360.07408	30.847	360.05301	31.138	360.08701	30.305	360.08942	29.638	31.1380	-19.7910	11.3470	33.730	Yes	Pass
+20°C (Normal)		360.077968	20.41	360.096304	20.60	360.083533	20.83	360.066837	20.90	20.9010	-19.7910	1.1100		Yes	Pass
-20°C		360.077121	25.88	360.028576	26.01	360.065810	26.29	360.079477	26.96	26.9600	-19.7910	7.1690		Yes	Pass
+20°C	85% (or manufacturer declared min)	360.091456	19.17	360.068558	19.21	360.092629	19.17	360.091865	19.20	19.2100	-19.7910	-0.581	33.730	Yes	Pass
	115% (or manufacturer declared max)	360.089214	28.14	360.050143	28.15	360.090052	28.10	360.091199	28.13	28.1490	-19.7910	8.358		Yes	Pass

*Note: Field strength at 3m at nominal temperature of 20°C was H-Filed dBuA/m. Correction factor is the difference between the signal level measured in the environment chamber using the small loop antenna at nominal temperature and the field strength, H-dBuA/m, measured at 3m.

10.4. CONFIGURATION 5: OPERATING MODE 360kHz W/ LOAD #2

Temperature (°C)	Voltage	Start Up		@ 2 mins		@ 5 mins		@ 10 mins		Signal Level (dBuA)	Correction Factor*	Corrected Signal Level (dBuA/m)	Limit (dBuA/m)	Within Authorized Frequency Band (based on 99% BW) (Yes or No)	Result (Pass / Fail)
		Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)	Freq. Reading (kHz)	Signal Level (dBuA)						
+50°C	Normal	359.98441	63.292	360.03563	63.3	359.94739	63.364	359.97715	63.465	63.4650	-61.3760	2.0890	33.760	Yes	Pass
+20°C (Normal)		360.030699	57.47	359.994397	57.47	360.036298	57.47	360.037632	57.46	57.4660	-61.3760	-3.9100		Yes	Pass
-20°C		360.037914	62.80	360.056576	63.53	359.922820	63.53	360.018129	63.53	63.5280	-61.3760	2.1520		Yes	Pass
+20°C	85% (or manufacturer declared min)	360.013540	57.37	360.020602	57.41	359.952628	57.43	360.071603	57.43	57.4280	-61.3760	-3.948	33.760	Yes	Pass
	115% (or manufacturer declared max)	359.957747	57.40	360.028819	57.40	360.049140	57.40	360.004287	57.40	57.4040	-61.3760	-3.972		Yes	Pass

*Note: Field strength at 3m at nominal temperature of 20°C was H-Filed dBuA/m. Correction factor is the difference between the signal level measured in the environment chamber using the small loop antenna at nominal temperature and the field strength, H-dBuA/m, measured at 3m.

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	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.

ISED RSS-216 Section 5.3.2

ISED RSS-216 Table 2

Table 2: Conducted emission limits (AC mains terminals)		
Frequency range (MHz)	Quasi-peak (dBµV)	Average (dBµV)
0.009 – 0.05	110	—
0.05 – 0.15	90 to 80 *	—
0.15 – 0.5	66 to 56 *	56 to 46 *
0.5 – 5	56	46
5 – 30	60	50
Note: The more stringent limit applies at transition frequencies. * In the 0.05 MHz to 0.15 MHz and 0.15 MHz to 0.5 MHz frequency ranges the limit level in dBµV decreases linearly with the logarithm of 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 200Hz for below 150kHz, 9kHz for 150kHz to 30MHz. Peak detection is used unless otherwise noted as quasi-peak or average.

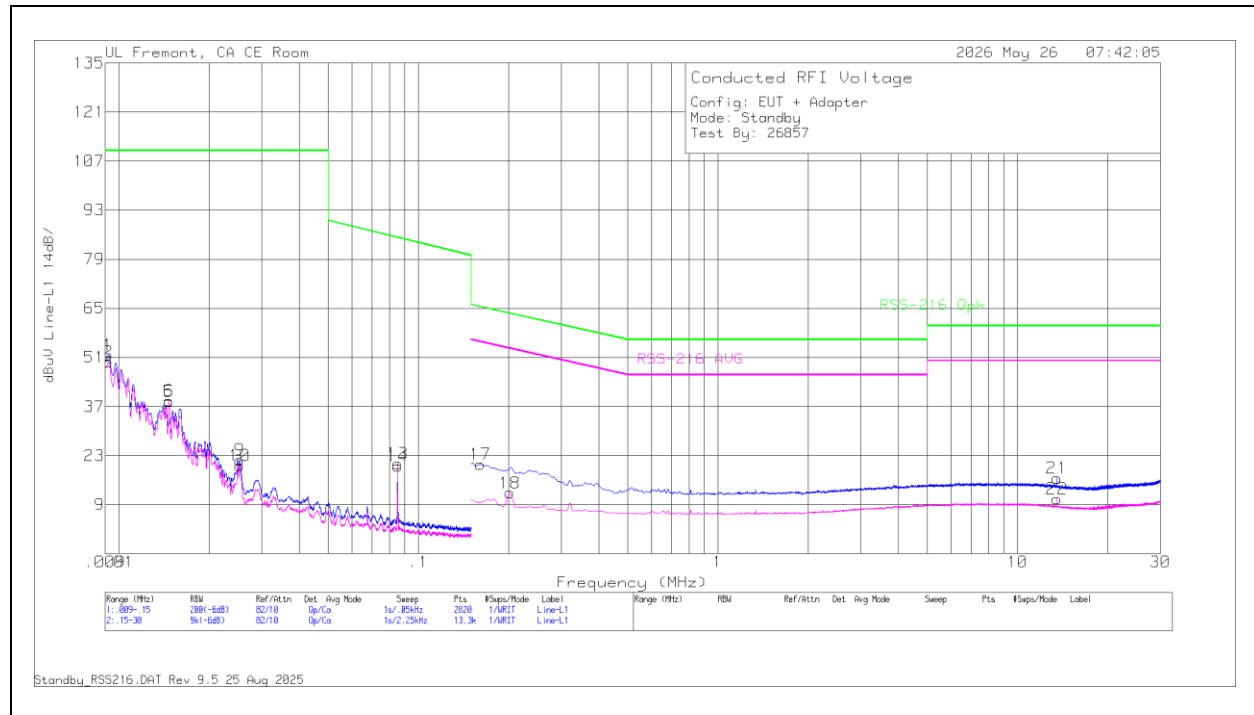
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

Testing ranges from 9kHz to 30MHz using ISED RSS-216 Table 2 limit to cover both FCC and ISED frequency range.

11.1. CONFIGURATION 1: STANDBY MODE

LINE 1 RESULTS



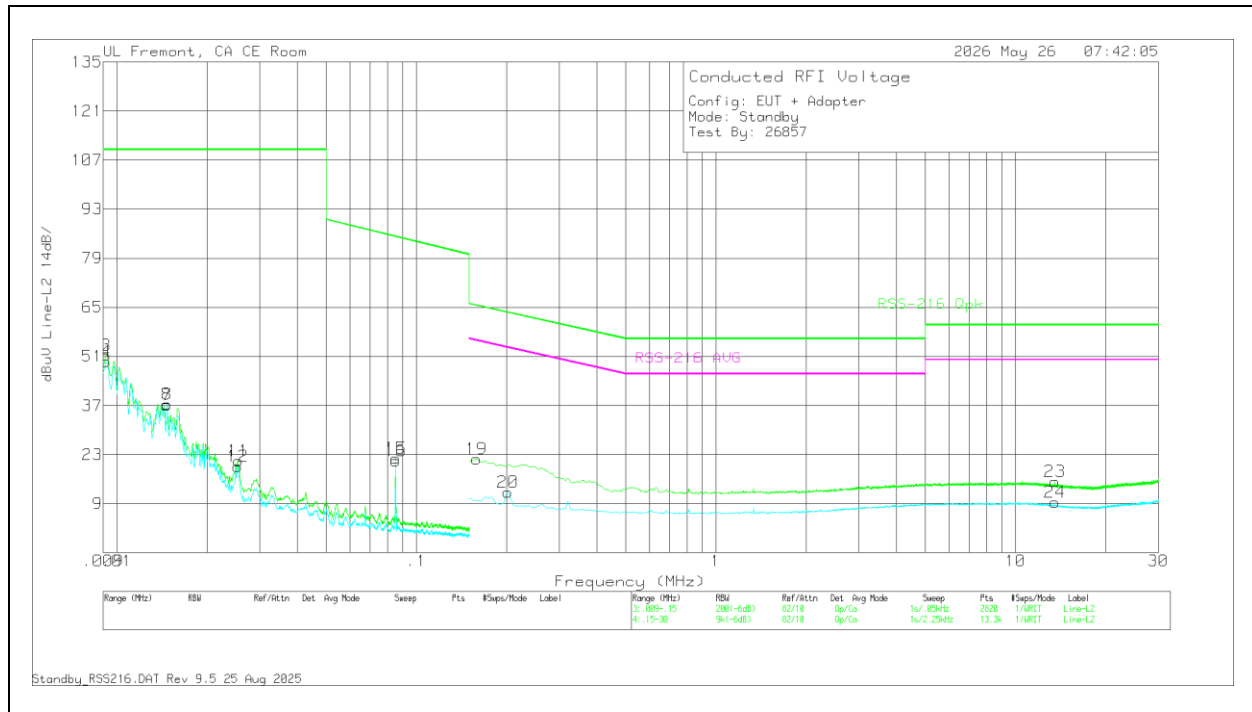
DATA

Range 1: Line-L1 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1 (dB)	Line 1 C3_C1_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)	
2	.0092	15.21	Ca	4.9	14.3	15.3	49.71	-	-	
6	.0147	13.36	Ca	2.7	10.8	11.7	38.56	-	-	
10	.0253	-2.67	Ca	1.1	10.9	10.8	20.13	-	-	
14	.0853	.56	Ca	.2	9.6	9.6	19.96	-	-	
1	.0092	17.24	Qp	4.9	14.3	15.3	51.74	110	-58.26	
5	.0147	13.25	Qp	2.7	10.8	11.7	38.45	110	-71.55	
9	.0253	-.97	Qp	1.1	10.9	10.8	21.83	110	-88.17	
13	.0853	1.24	Qp	.2	9.6	9.6	20.64	85.14	-64.5	

Range 2: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1 (dB)	Line 1 C3_C1_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
18	.2018	-6.43	Ca	0	9.4	9.4	12.37	-	-	53.54	-41.17
22	13.56	-8.41	Ca	.1	9.5	9.5	10.69	-	-	50	-39.31
17	.1613	1.48	Qp	.1	9.4	9.5	20.48	65.4	-44.92	-	-
21	13.56	-2.46	Qp	.1	9.5	9.5	16.64	60	-43.36	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



DATA

Range 3: Line-L2 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2 (dB)	Line 2 C3_C2_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)	
4	.0092	14.92	Ca	5	14.3	15.3	49.52	-	-	
8	.0147	12.14	Ca	2.7	10.8	11.7	37.34	-	-	
12	.0253	-3.11	Ca	1.1	10.9	10.8	19.69	-	-	
16	.0853	1.96	Ca	.1	9.6	9.6	21.26	-	-	
3	.0092	16.74	Qp	5	14.3	15.3	51.34	110	-58.66	
7	.0147	11.99	Qp	2.7	10.8	11.7	37.19	110	-72.81	
11	.0254	-1.55	Qp	1.1	10.9	10.8	21.25	110	-88.75	
15	.0853	2.59	Qp	.1	9.6	9.6	21.89	85.14	-63.25	

Range 4: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2 (dB)	Line 2 C3_C2_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
20	.2018	-6.51	Ca	0	9.4	9.4	12.29	-	-	53.54	-41.25
24	13.56	-9.62	Ca	.1	9.5	9.5	9.48	-	-	50	-40.52
19	.159	2.77	Qp	.1	9.4	9.5	21.77	65.52	-43.75	-	-
23	13.56	-3.76	Qp	.1	9.5	9.5	15.34	60	-44.66	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.2. CONFIGURATION 2: OPERATING MODE 127.7kHz W/ LOAD #1

LINE 1 RESULTS



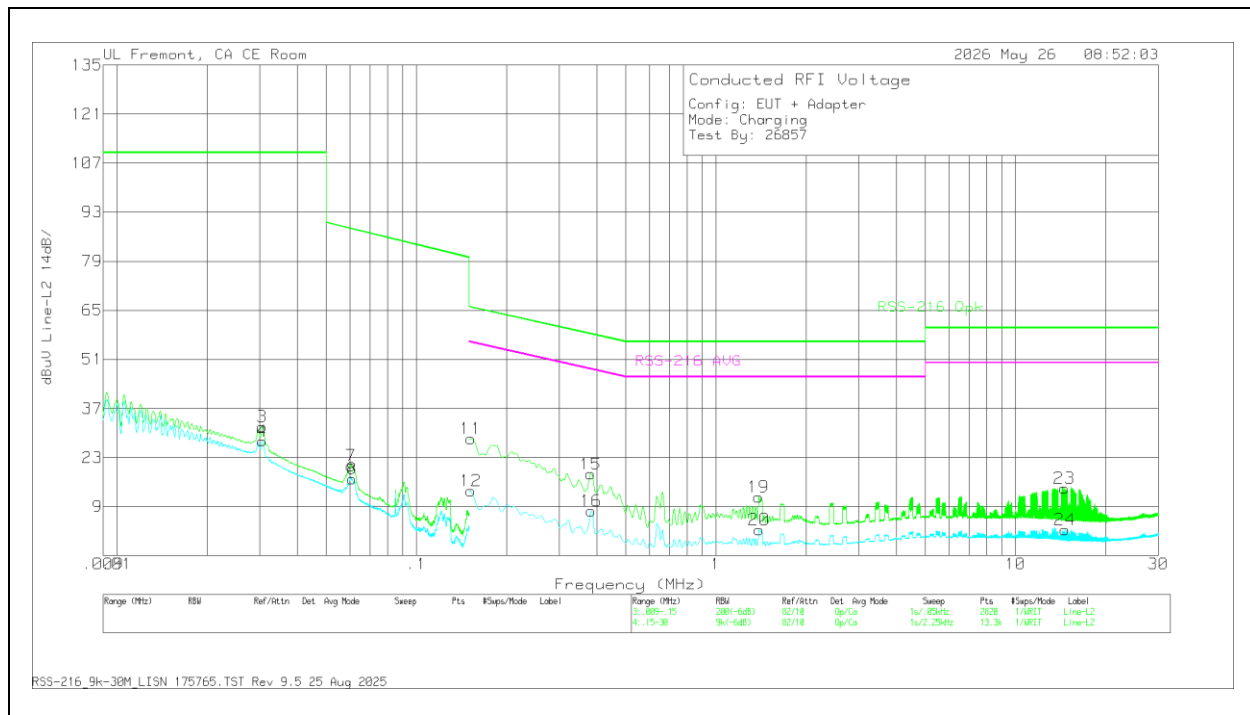
DATA

Range 1: Line-L1 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)	
2	.0305	16.56	Ca	.8	0	10.6	27.96	-	-	
6	.061	7.24	Ca	.3	0	9.8	17.34	-	-	
1	.0306	20.52	Qp	.8	0	10.6	31.92	110	-78.08	
5	.0609	11.12	Qp	.3	0	9.8	21.22	88.2	-66.98	

Range 2: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
10	.1523	4.15	Ca	.1	0	9.4	13.65	-	-	55.88	-42.23
14	.384	-7.9	Ca	0	0	9.4	8.61	-	-	48.19	-39.58
18	1.392	-8.03	Ca	0	.1	9.4	1.47	-	-	46	-44.53
22	14.6175	-7.72	Ca	.1	.3	9.5	2.18	-	-	50	-47.82
9	.1523	18.96	Qp	.1	0	9.4	28.46	65.88	-37.42	-	-
13	.3818	9.85	Qp	0	0	9.4	19.25	58.24	-38.99	-	-
17	1.3898	-1.7	Qp	0	.1	9.4	9.33	56	-46.67	-	-
21	14.5883	4.45	Qp	.1	.3	9.5	14.35	60	-45.65	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



DATA

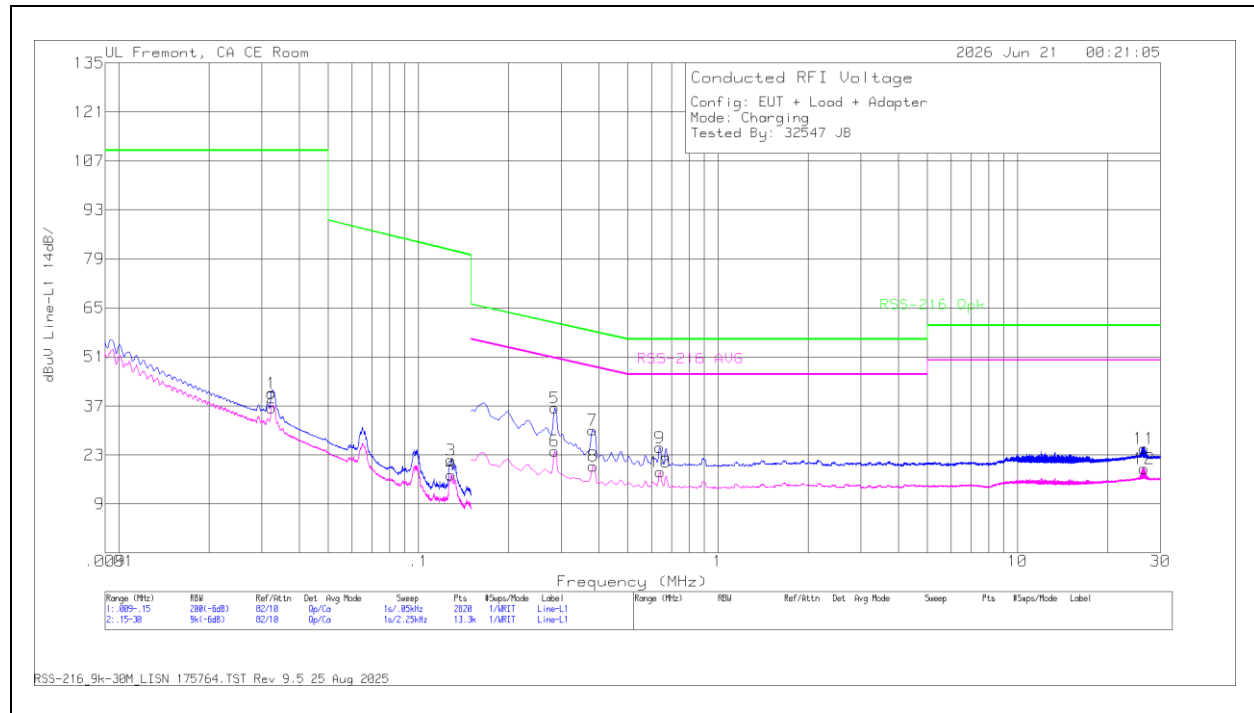
Range 3: Line-L2 .009 - .15MHz									
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)
4	.0306	16.37	Ca	.8	0	10.6	27.77	-	-
8	.061	6.9	Ca	.2	0	9.8	16.9	-	-
3	.0306	20.39	Qp	.8	0	10.6	31.79	110	-78.21
7	.0606	10.64	Qp	.2	0	9.8	20.64	88.25	-67.61

Range 4: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
12	.1523	4.07	Ca	.1	0	9.4	13.57	-	-	55.88	-42.31
16	.384	-1.67	Ca	0	0	9.4	7.73	-	-	48.19	-40.46
20	1.392	-7.08	Ca	0	.1	9.4	2.42	-	-	46	-43.58
24	14.6468	-7.46	Ca	.1	.3	9.5	2.44	-	-	50	-47.56
11	.1523	18.87	Qp	.1	0	9.4	28.37	65.88	-37.51	-	-
15	.3818	8.89	Qp	0	0	9.4	18.29	58.24	-39.95	-	-
19	1.3898	2.27	Qp	0	.1	9.4	11.77	56	-44.23	-	-
23	14.5883	4.42	Qp	.1	.3	9.5	14.32	60	-45.68	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.3. CONFIGURATION 3: OPERATING MODE 127.7kHz W/ LOAD #2

LINE 1 RESULTS



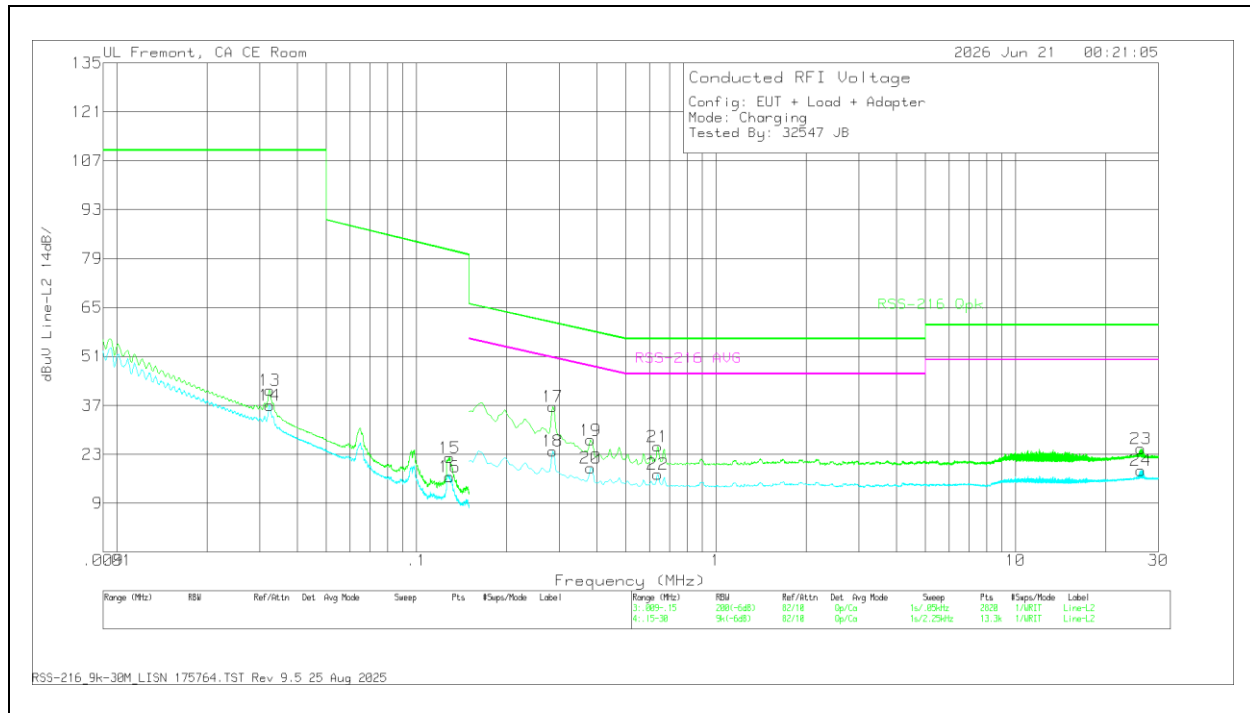
DATA

Range 1: Line-L1 .009 - .15MHz											
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading dBUV	RSS-216 Qpk (dBUV)	Margin (dB)	
2	.0323	15.27	Ca	.7	0	10.5	10	36.47	-	-	
4	.1285	-2.27	Ca	.1	0	9.5	10	17.33	-	-	
1	.0323	19.44	Qp	.7	0	10.5	10	40.64	110	-69.36	
3	.1286	1.91	Qp	.1	0	9.5	10	21.51	81.4	-59.89	

Range 2: Line-L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading dBUV	RSS-216 Qpk (dBUV)	Margin (dB)	RSS-216 AVG (dBUV)	Margin (dB)
6	.285	4.73	Ca	0	0	9.4	10	24.13	-	-	50.67	-26.54
8	.384	.48	Ca	0	0	9.4	10	19.88	-	-	48.19	-28.31
10	.6405	-1.38	Ca	0	.1	9.4	10	18.12	-	-	46	-27.88
12	26.4705	-1.17	Ca	.3	.3	9.6	10	19.03	-	-	50	-30.97
5	.285	16.98	Qp	0	0	9.4	10	36.38	60.67	-24.29	-	-
7	.3818	10.7	Qp	0	0	9.4	10	30.1	58.24	-28.14	-	-
9	.6383	5.69	Qp	0	.1	9.3	10	25.09	56	-30.91	-	-
11	26.4705	4.63	Qp	.3	.3	9.6	10	24.83	60	-35.17	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



DATA

Range 3: Line-L2 .009 - .15MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)	
14	.0324	15.68	Ca	.8	0	10.5	10	36.98	-	-	
16	.1291	-3.07	Ca	.1	0	9.5	10	16.53	-	-	
13	.0324	20.04	Qp	.8	0	10.5	10	41.34	110	-68.66	
15	.1288	2.44	Qp	.1	0	9.5	10	22.04	81.39	-59.35	

Range 4: Line-L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
18	.285	4.54	Ca	0	0	9.4	10	23.94	-	-	50.67	-26.73
20	.3818	-3.7	Ca	0	0	9.4	10	19.03	-	-	48.24	-29.21
22	.6383	-2.16	Ca	0	.1	9.3	10	17.24	-	-	46	-28.76
24	26.2073	-1.84	Ca	.3	.3	9.6	10	18.36	-	-	50	-31.64
17	.285	17.3	Qp	0	0	9.4	10	36.7	60.67	-23.97	-	-
19	.3818	7.66	Qp	0	0	9.4	10	27.06	58.24	-31.18	-	-
21	.6383	5.86	Qp	0	.1	9.3	10	25.26	56	-30.74	-	-
23	26.2073	4.37	Qp	.3	.3	9.6	10	24.57	60	-35.43	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.4. CONFIGURATION 4: OPERATING MODE 360kHz W/ LOAD #1

LINE 1 RESULTS



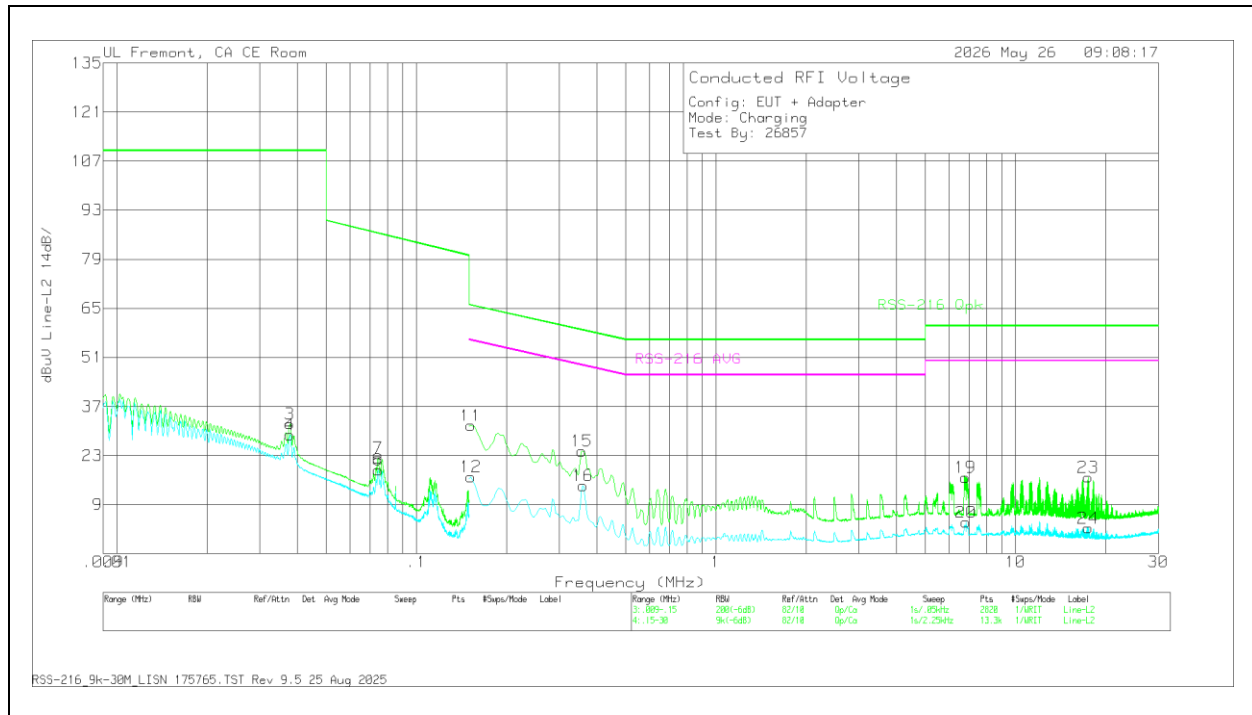
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Range 1: Line-L1 .009 - .15MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L1SN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)		
2	.0377	18.85	Ca	.6	0	10.3	29.75	-	-		
6	.0742	10.86	Ca	.2	0	9.7	20.76	-	-		
1	.0377	21.8	Qp	.6	0	10.3	32.7	110	-77.3		
5	.0743	13.81	Qp	.2	0	9.7	23.71	86.4	-62.69		

Range 2: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L1SN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
10	.1523	7.31	Ca	.1	0	9.4	16.81	-	-	55.88	-39.07
14	.3593	2.26	Ca	0	0	9.3	11.56	-	-	48.75	-37.19
18	6.8483	-5.61	Ca	0	.2	9.5	4.09	-	-	50	-45.91
22	17.4773	-7.65	Ca	.2	.3	9.6	2.45	-	-	50	-47.55
9	.1523	22.21	Qp	.1	0	9.4	31.71	65.88	-34.17	-	-
13	.3615	11.96	Qp	0	0	9.4	21.36	58.69	-37.33	-	-
17	6.7965	6.76	Qp	0	.2	9.5	16.46	60	-43.54	-	-
21	17.475	6.51	Qp	.2	.3	9.6	16.61	60	-43.39	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



DATA

Range 3: Line-L2 .009 - .15MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)
4	.0378	18.14	Ca	.5	0	10.3	28.94	-	-
8	.0746	8.96	Ca	.2	0	9.7	18.86	-	-
3	.0378	21.27	Qp	.5	0	10.3	32.07	110	-77.93
7	.0744	12.44	Qp	.2	0	9.7	22.34	86.38	-64.04

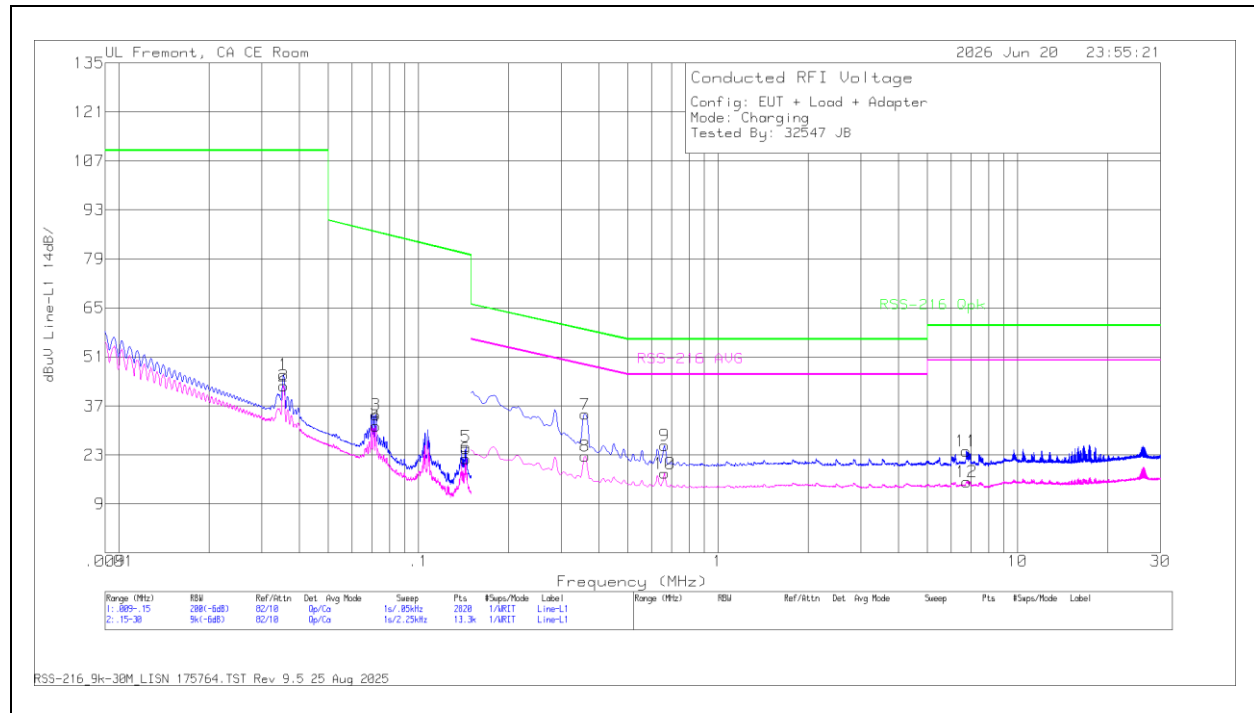
Range 4: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
12	.1523	7.37	Ca	.1	0	9.4	16.87	-	-	55.88	-39.01
16	.3593	5.15	Ca	0	0	9.3	14.45	-	-	48.75	-34.3
20	6.8483	-5.74	Ca	0	.2	9.5	3.96	-	-	50	-46.04
24	17.502	-7.77	Ca	.2	.3	9.6	2.33	-	-	50	-47.67
11	.1523	22.05	Qp	.1	0	9.4	31.55	65.88	-34.33	-	-
15	.357	14.92	Qp	0	0	9.3	24.22	58.8	-34.58	-	-
19	6.7965	7.1	Qp	0	.2	9.5	16.8	60	-43.2	-	-
23	17.475	6.84	Qp	.1	.3	9.6	16.84	60	-43.16	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.5. CONFIGURATION 5: OPERATING MODE 360kHz W/ LOAD #2

LINE 1 RESULTS



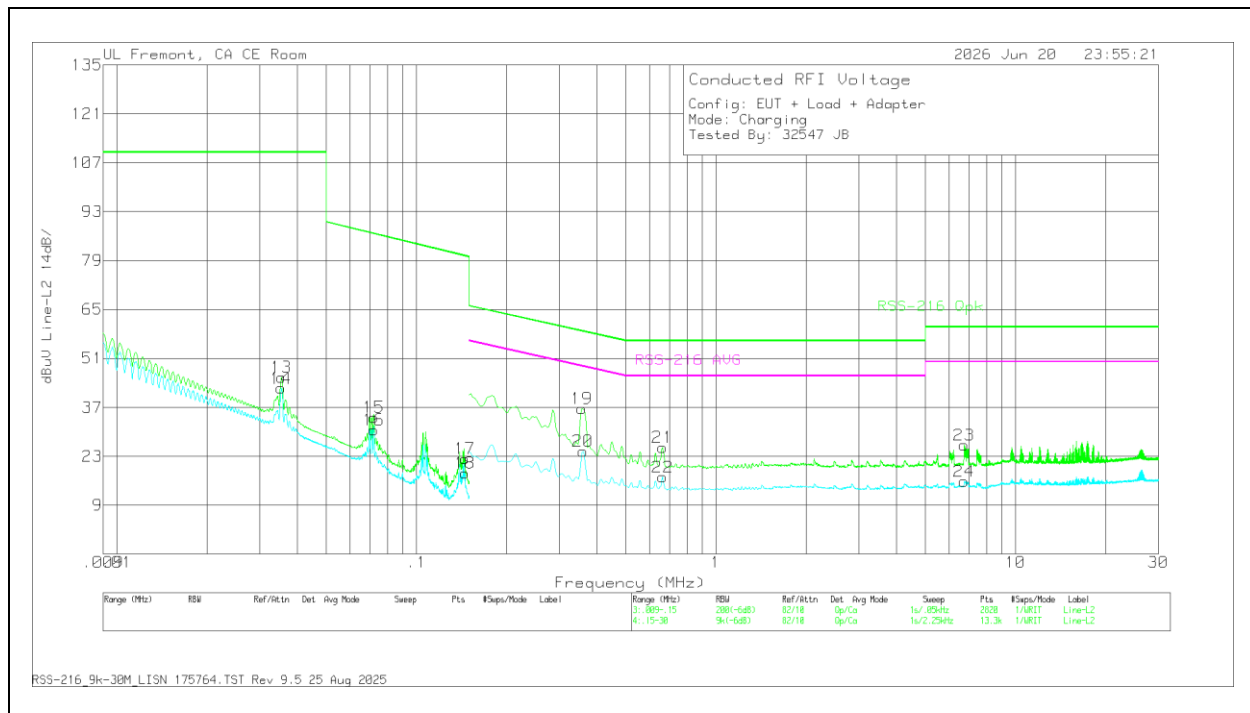
DATA

Range 1: Line-L1 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading dBUV	RSS-216 Qpk (dBUV)	Margin (dB)
2	.0355	21.78	Ca	.6	0	10.4	10	42.78	-	-
4	.072	11.29	Ca	.2	0	9.7	10	31.19	-	-
6	.144	2.5	Ca	.1	0	9.4	10	22	-	-
1	.0355	25.02	Qp	.6	0	10.4	10	46.02	110	-63.98
3	.072	14.67	Qp	.2	0	9.7	10	34.57	86.68	-52.11
5	.144	5.83	Qp	.1	0	9.4	10	25.33	80.37	-55.04

Range 2: Line-L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading dBUV	RSS-216 Qpk (dBUV)	Margin (dB)	RSS-216 AVG (dBUV)	Margin (dB)
8	.3593	3.42	Ca	0	0	9.3	10	22.72	-	-	48.75	-26.03
10	.663	-1.76	Ca	0	.1	9.4	10	17.74	-	-	46	-28.26
12	6.7661	-4.31	Ca	0	.2	9.5	10	15.39	-	-	50	-34.61
7	.3593	15.3	Qp	0	0	9.3	10	34.6	58.75	-24.15	-	-
9	.663	6.16	Qp	0	.1	9.4	10	25.66	56	-30.34	-	-
11	6.7268	4.4	Qp	0	.2	9.5	10	24.1	60	-35.9	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



DATA

Range 3: Line-L2 .009 - .15MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)		
14	.0354	21.37	Ca	.7	0	10.4	10	42.47	-	-		
16	.0722	10.72	Ca	.2	0	9.7	10	30.62	-	-		
18	.1452	-1.31	Ca	.1	0	9.4	10	18.19	-	-		
13	.0354	24.53	Qp	.7	0	10.4	10	45.63	110	-64.37		
15	.0722	14.19	Qp	.2	0	9.7	10	34.09	86.66	-52.57		
17	.1452	2.81	Qp	.1	0	9.4	10	22.31	80.3	-57.99		
Range 4: Line-L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
20	.3593	5.21	Ca	0	0	9.3	10	24.51	-	-	48.75	-24.24
22	.663	-2.47	Ca	0	.1	9.4	10	17.03	-	-	46	-28.97
24	6.7448	-4.01	Ca	.1	.2	9.5	10	15.79	-	-	50	-34.21
19	.357	17.31	Qp	0	0	9.3	10	36.61	58.8	-22.19	-	-
21	.663	6.04	Qp	0	.1	9.4	10	25.54	56	-30.46	-	-
23	6.7358	6.38	Qp	.1	.2	9.5	10	26.18	60	-33.82	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 16097213-EP1V1 for setup photos.

END OF TEST REPORT