

TEST REPORT

Report Number : 16097213-E3V2

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

Model : A3641

FCC ID : BCGA3641

IC : 579C-A3641

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:

2026/08/12

Prepared by:

UL VERIFICATION SERVICES INC.
47173 Benicia Street
Fremont, CA 94538 U.S.A.
TEL: (510) 319-4000
FAX: (510) 661-0888



REPORT REVISION HISTORY

Rev.		Issue Date		Revisions		Revised By
V1		2026/07/20		Initial Issue		--
V2		2026/08/12		Addressed TCB comments, pg 8, pg 11, pg 12		John Bautista

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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	A3641		
Brand	APPLE		
FCC ID	BCGA3641		
IC	579C-A3641		
EUT Description	Magnetic Charger		
SERIAL NUMBER	XTVG4WTG2Y		
SAMPLE RECEIPT DATE	2026/06/12		
DATE TESTED	JUNE 12, 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	-26.17	1.63
360		-26.41	1.27
--	Standby	-61.81	-10.92

6.3. WORST-CASE CONFIGURATION AND MODE

The load was evaluated in three states: State 1 (fully closed), State 2 (fully open), State 3 (open halfway). The worst-case configuration was determined to be the EUT in its natural orientation with the load set at the center of the charging coil 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 configurations:

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

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.

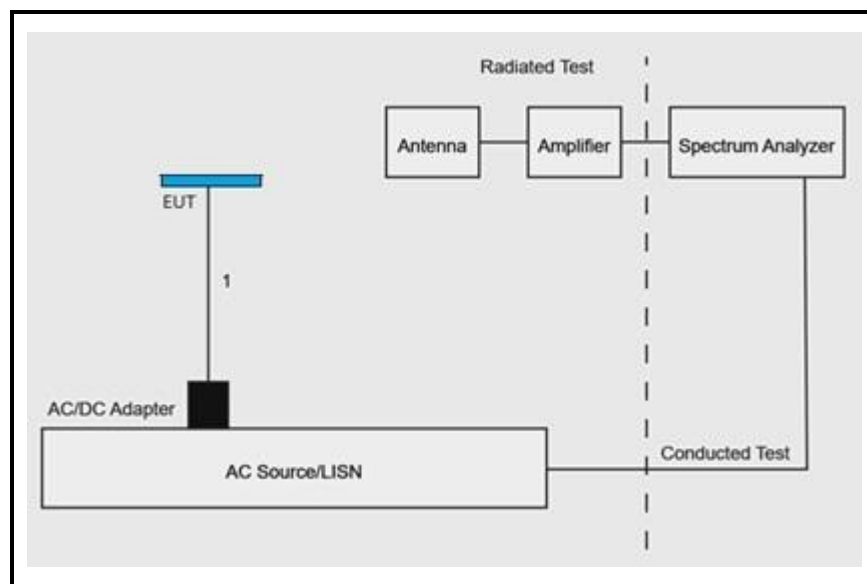
For below 30MHz testing, investigation was done on three antenna orientations: RX antenna Face-On, Face-Off and Horizontal (parallel to ground). The worst-case configurations were determined on RX antenna Face-On and Face-Off; therefore, all final tests were performed using these two orientations.

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.

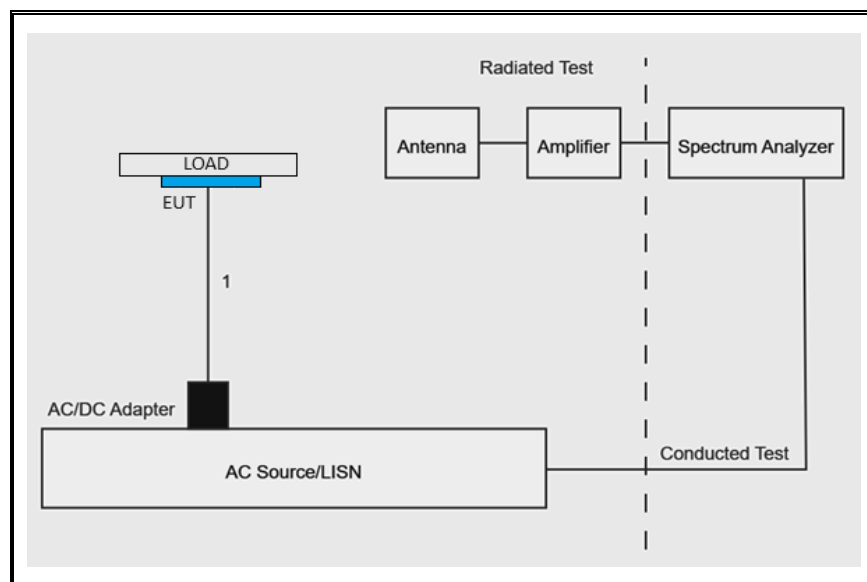
6.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT & PERIPHERALS LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
AC/DC adapter	Apple	N/A	F162073003S0J9V07	N/A
Charging Cable	Apple	N/A	N/A	N/A
Load	Apple	N/A	L73TXQH4NP	N/A

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

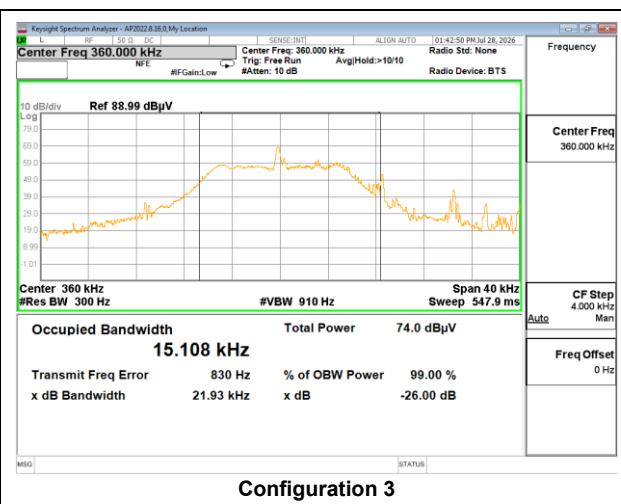
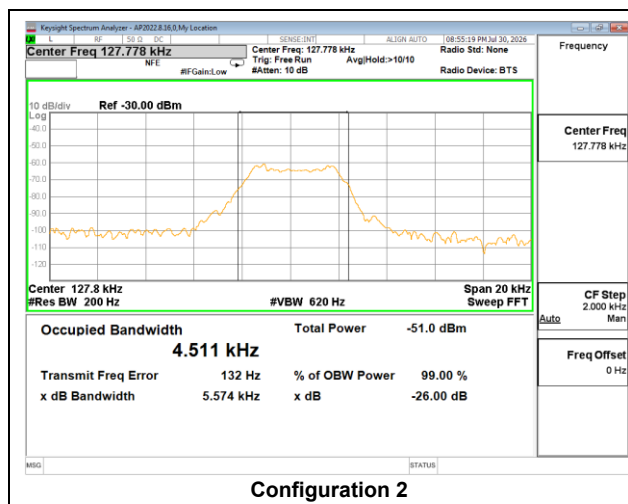
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1-5% of OBW. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

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

Configuration 3: Charger with Load in operating mode, transmitting at 360 kHz

Configuration	Occupied Bandwidth (kHz)	
	127.7	360
2	4.511	-
3	-	15.108



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.

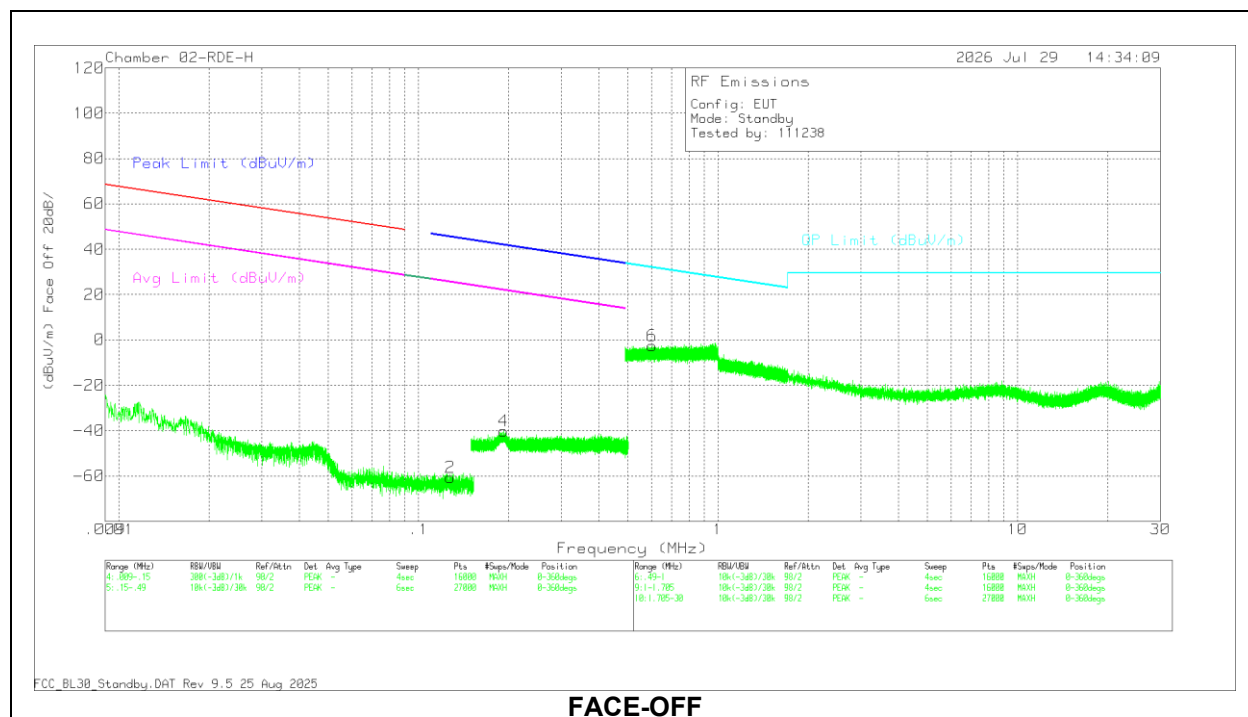
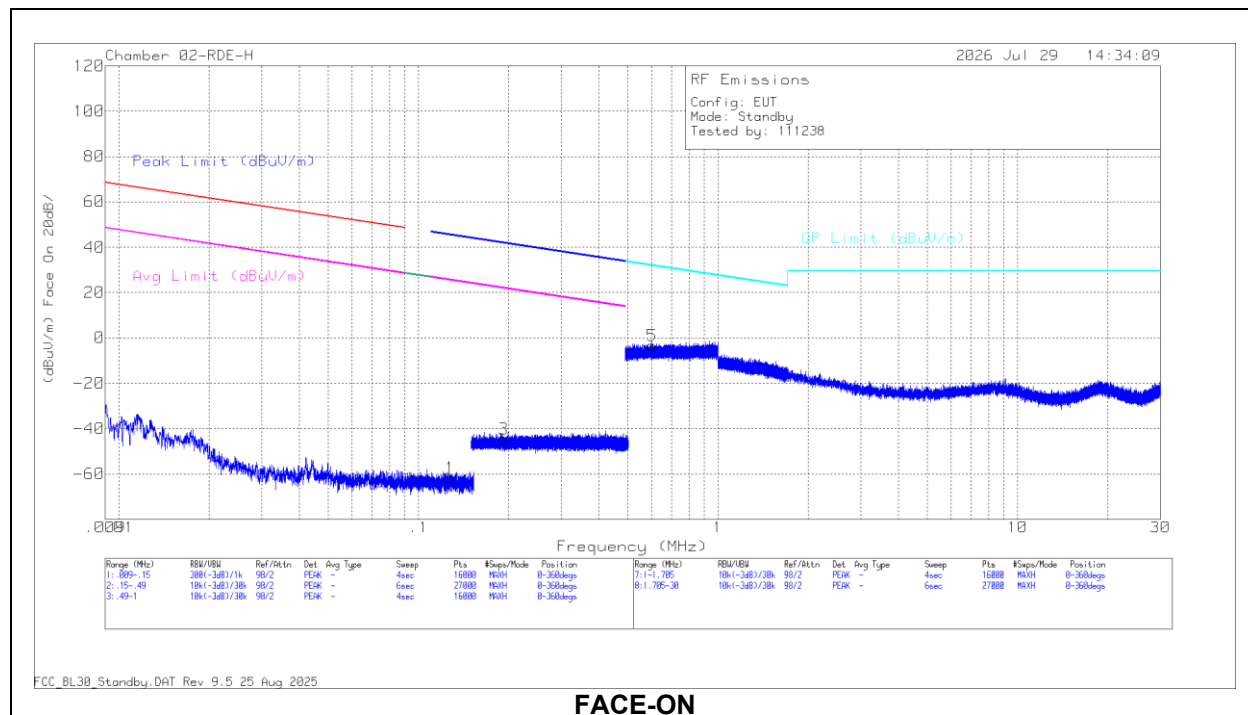
OFS and chamber correlation testing had been performed and the chamber measured test result is the worst-case test result.

RESULTS

The EUT belongs to Type 3 (Category I Radio Apparatus)

9.1. CONFIGURATION 1: STANDBY MODE

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



DATA

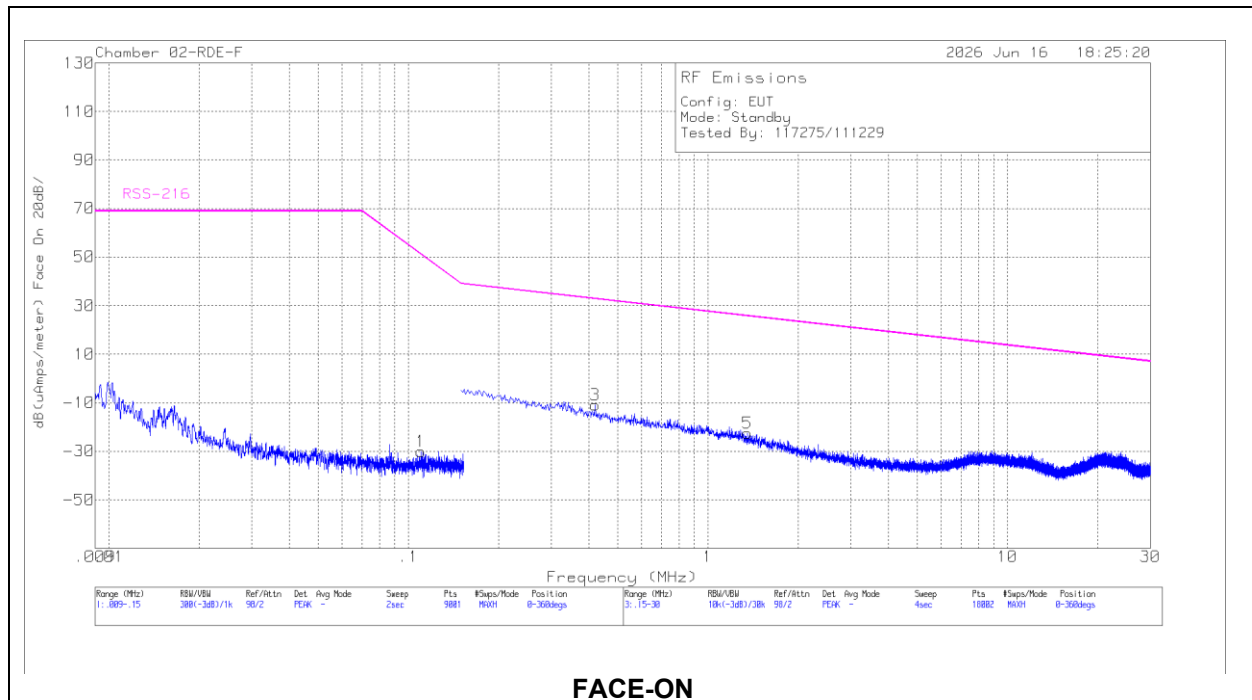
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Loop Path 30Hz-1MHz (dB)	Dist Corr 300m (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1278	-5.01	Pk	55.6	-32.4	-80	-61.81	45.5	-107.31	25.5	-87.31	0-360	Face-on
2	.1278	-3.77	Pk	55.6	-32.4	-80	-60.57	45.5	-106.07	25.5	-86.07	0-360	Face-off
3	.1926	11.89	Pk	56	-32.4	-80	-44.51	41.93	-86.44	21.93	-66.44	0-360	Face-on
4	.1926	16.15	Pk	56	-32.4	-80	-40.25	41.93	-82.18	21.93	-62.18	0-360	Face-off

Pk - Peak detector

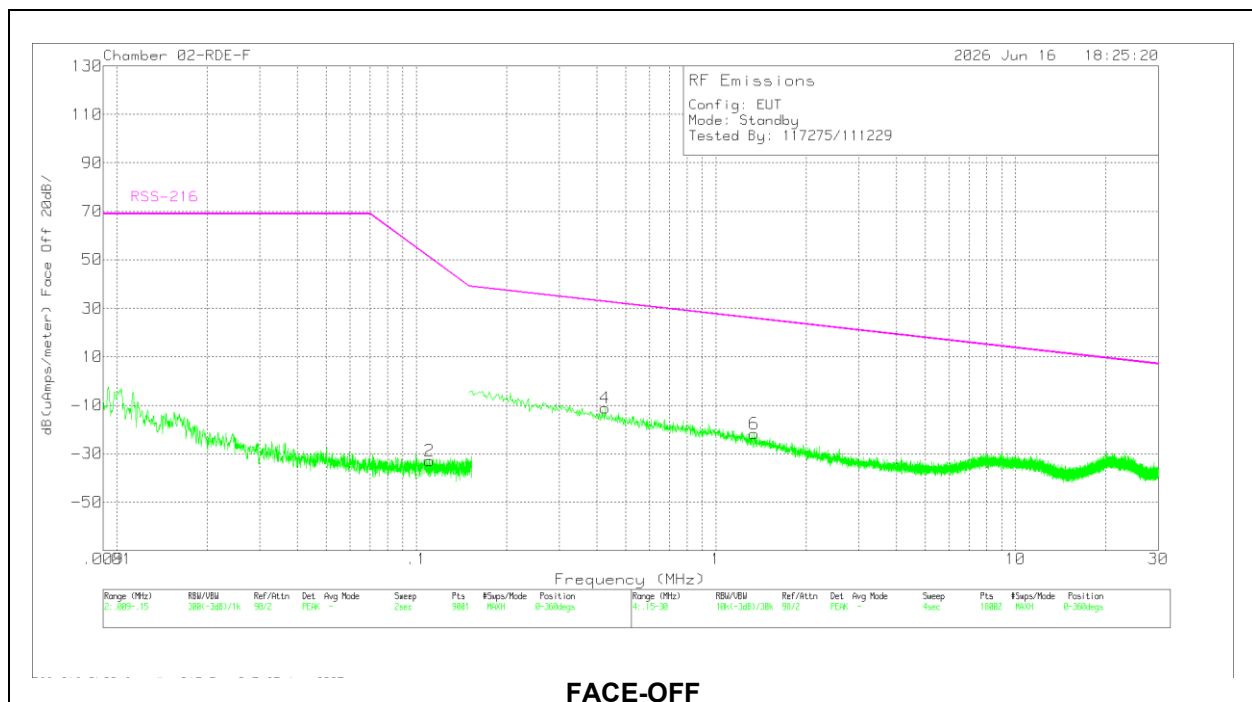
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Loop Path 30Hz-1MHz (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
5	.6033	12.61	Pk	56	-31.9	-40	-3.29	32	-35.29	0-360	Face-on
6	.6033	13.29	Pk	56	-31.9	-40	-2.61	32	-34.61	0-360	Face-off

Pk - Peak detector

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



FACE-ON



FACE-OFF

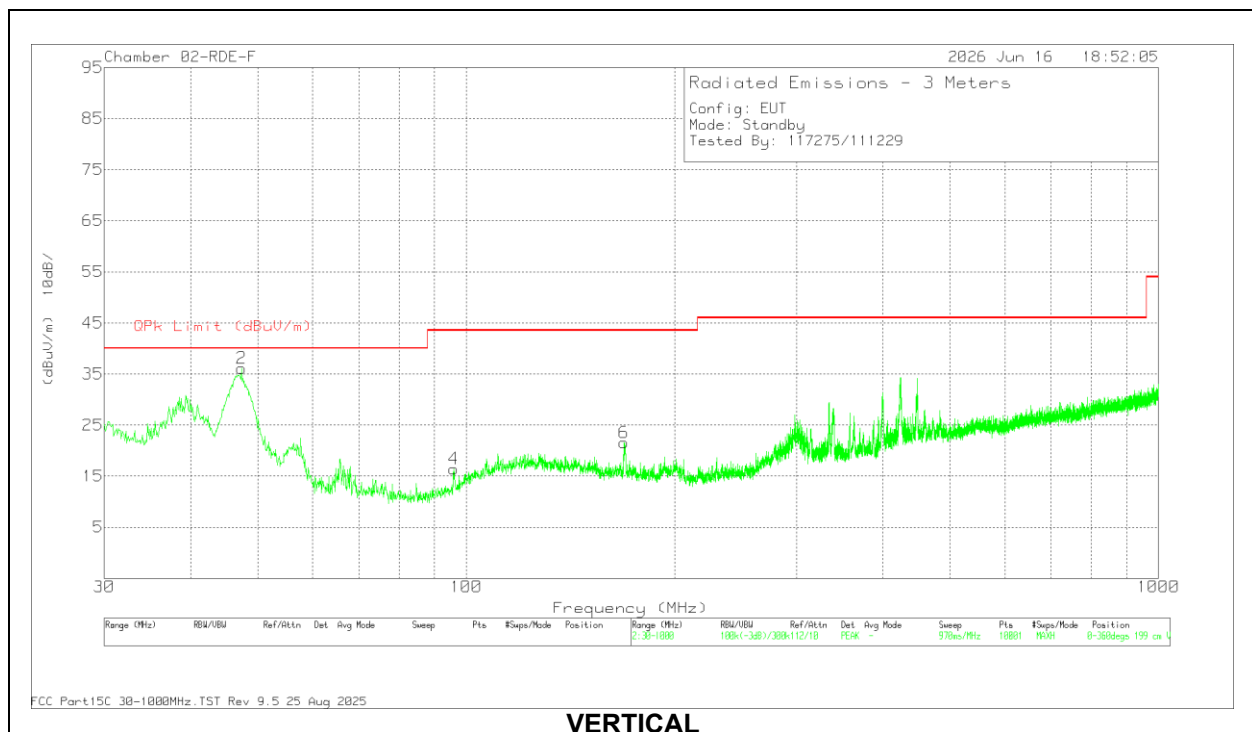
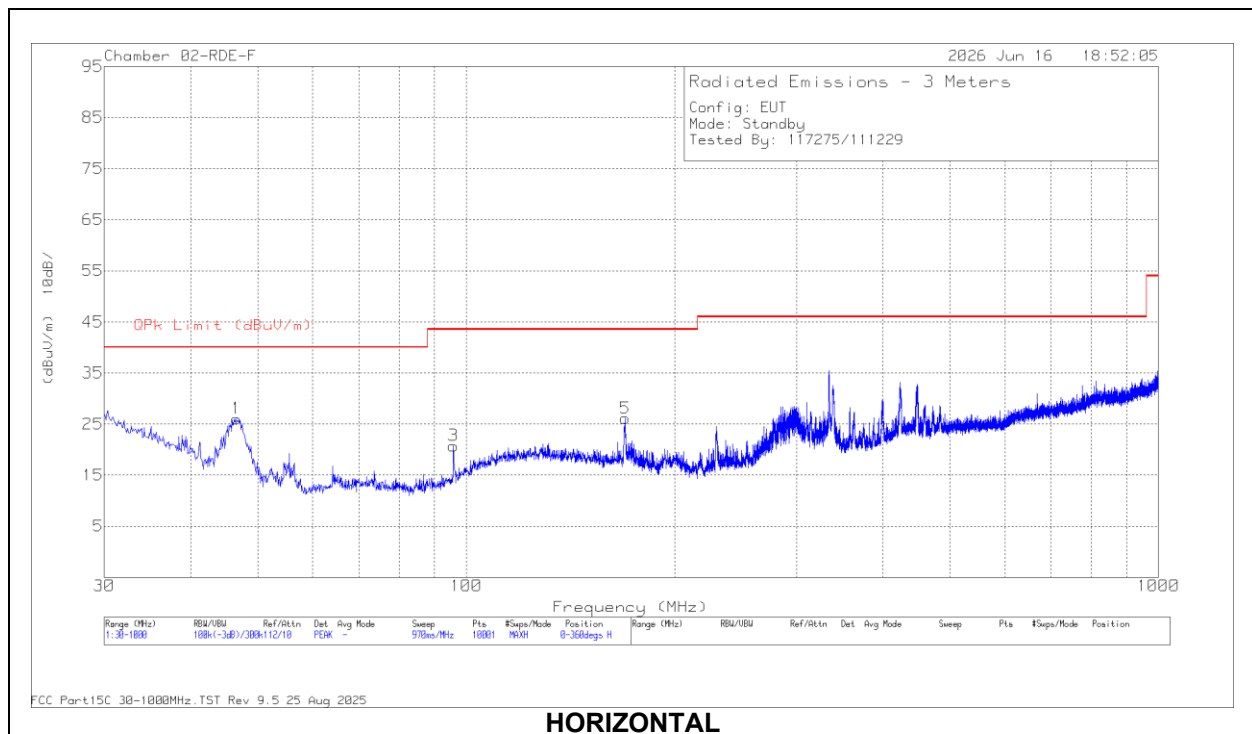
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Amp/Cbl (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Limit (dBuA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	* .1099	-1.72	Pk	4.2	-32.5	-30.02	51.23	-81.25	0-360	Face-on
2	.1104	-4.69	Pk	4.2	-32.5	-32.99	51.08	-84.07	0-360	Face-off
3	.4203	19.68	Pk	2	-32.6	-10.92	32.78	-43.7	0-360	Face-on
4	.4252	19.56	Pk	1.9	-32.6	-11.14	32.71	-43.85	0-360	Face-off
5	1.3554	16.58	Pk	-6.5	-32.7	-22.62	25.71	-48.33	0-360	Face-on
6	1.3438	17.38	Pk	-6.5	-32.7	-21.82	25.76	-47.58	0-360	Face-off

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

Pk - Peak detector

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



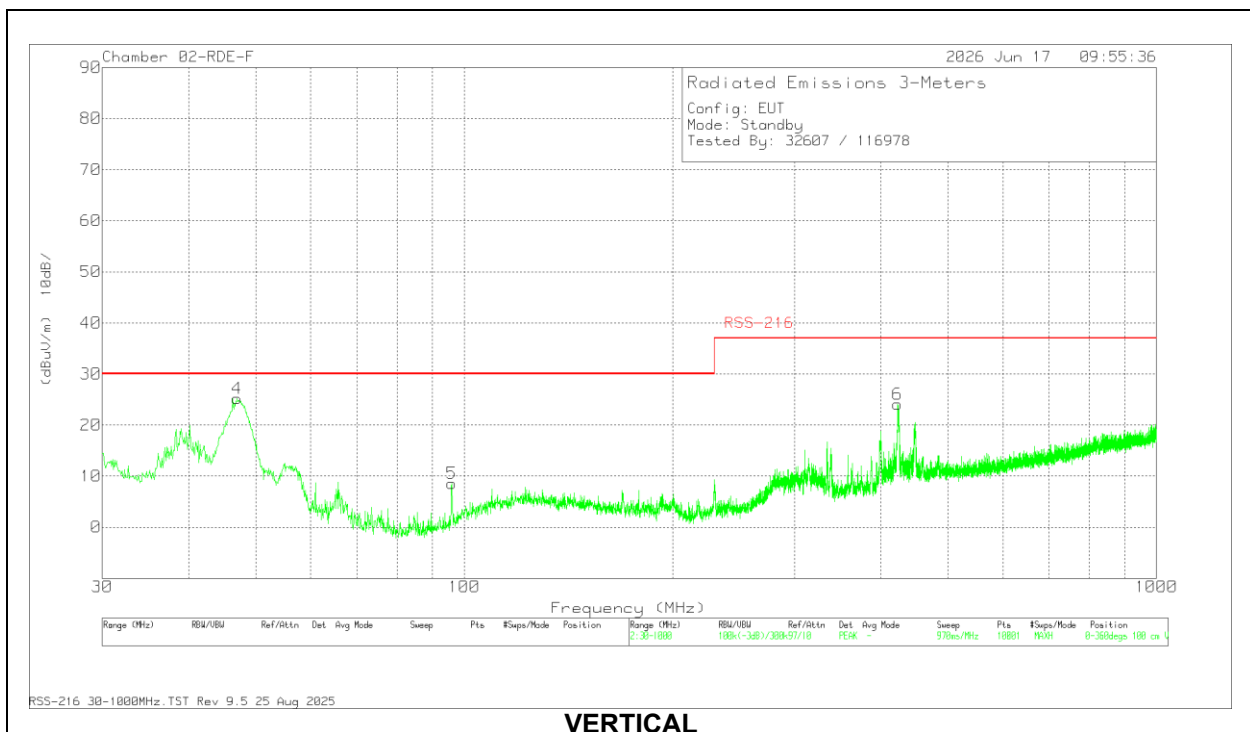
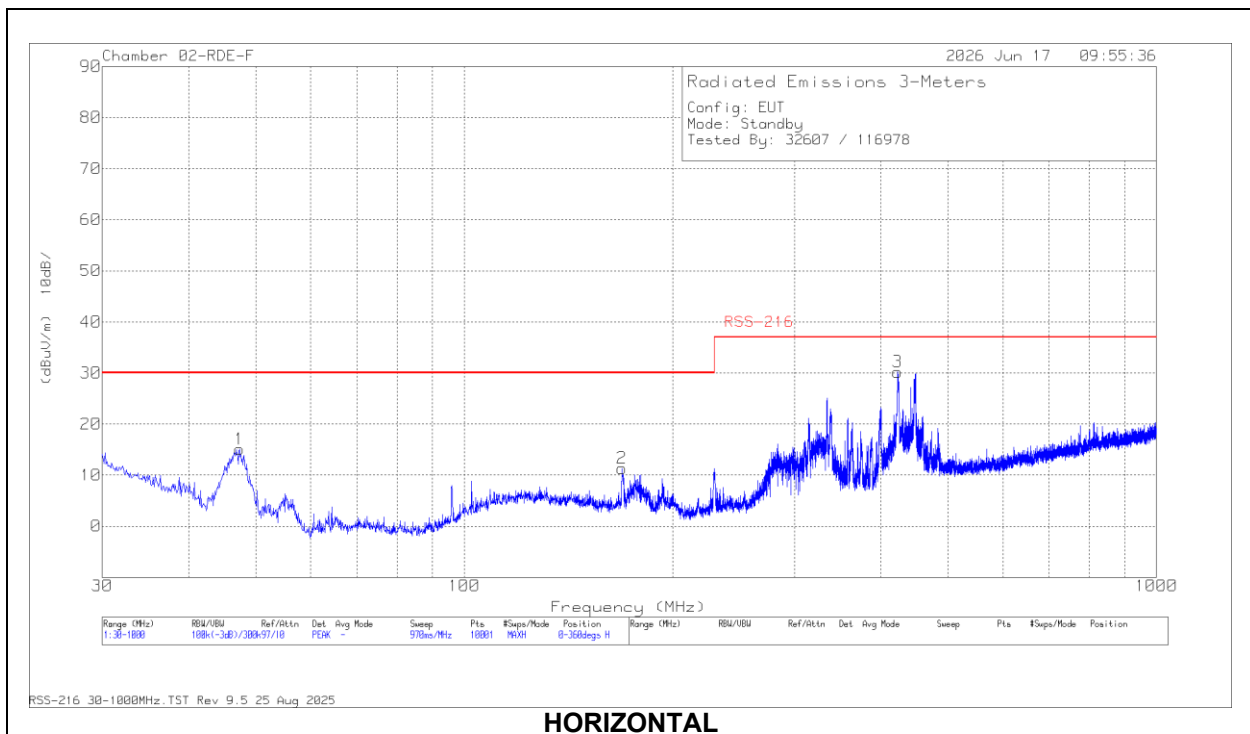
DATA

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	* 169.461	.96	Qp	17.6	-30.6	-12.04	43.52	-55.56	137	202	H
6	* 169.509	-3.25	Qp	17.5	-30.6	-16.35	43.52	-59.87	317	115	V
1	46.674	-.77	Qp	14.9	-31.3	-17.17	40	-57.17	91	309	H
2	46.998	8.37	Qp	14.7	-31.2	-8.13	40	-48.13	31	102	V
3	96	-6.68	Qp	15.2	-31.1	-22.58	43.52	-66.1	68	243	H
4	96.004	.27	Qp	15.2	-31.1	-15.63	43.52	-59.15	245	101	V

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

Qp - Quasi-Peak detector

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



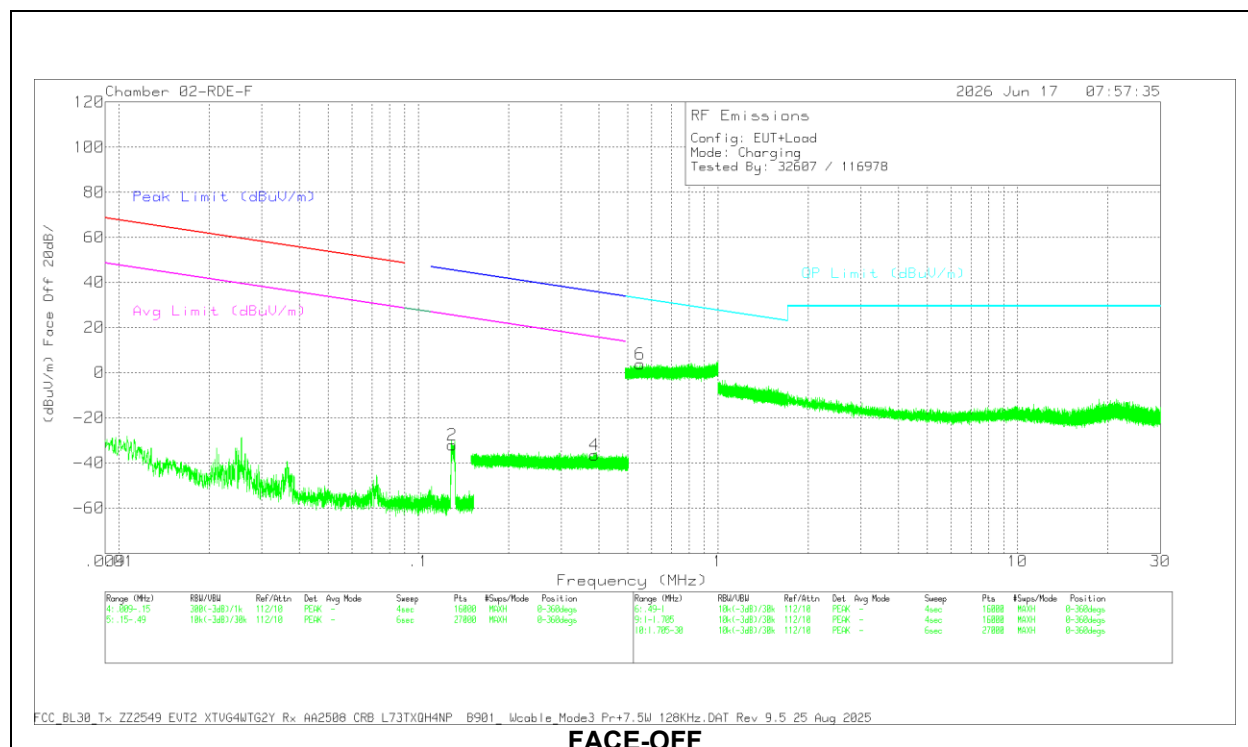
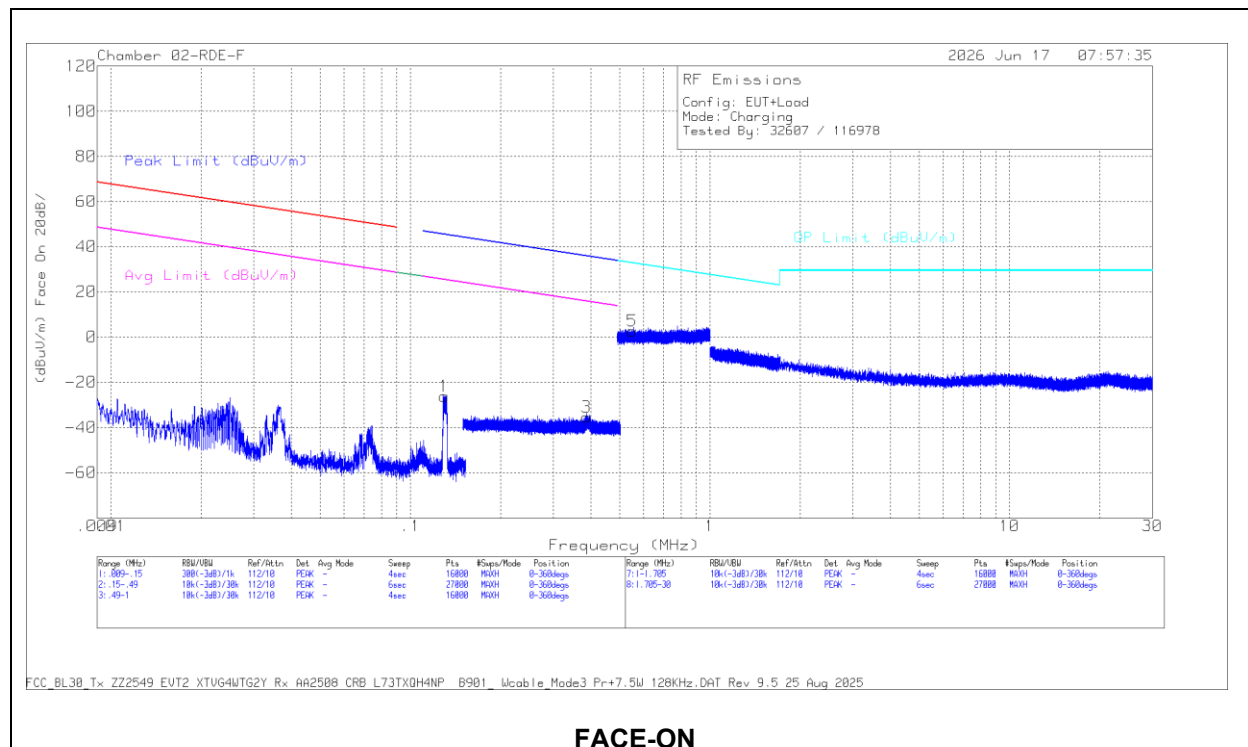
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	RSS-216 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	46.8262	36.95	Qp	14.8	-31.3	-10.5	9.95	30	-20.05	79	356	H
4	47.4878	48.05	Qp	14.5	-31.2	-10.5	20.85	30	-9.15	88	100	V
5	95.989	32.46	Qp	15.2	-31.1	-10.5	6.06	30	-23.94	340	139	V
2	169.5	32.36	Qp	17.5	-30.6	-10.5	8.76	30	-21.24	157	166	H
6	422.996	38.78	Qp	22.2	-29.2	-10.5	21.28	37	-15.72	92	107	V
3	423.977	44.95	Qp	22.2	-29.3	-10.5	27.35	37	-9.65	119	205	H

Qp - Quasi-Peak detector

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

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



DATA

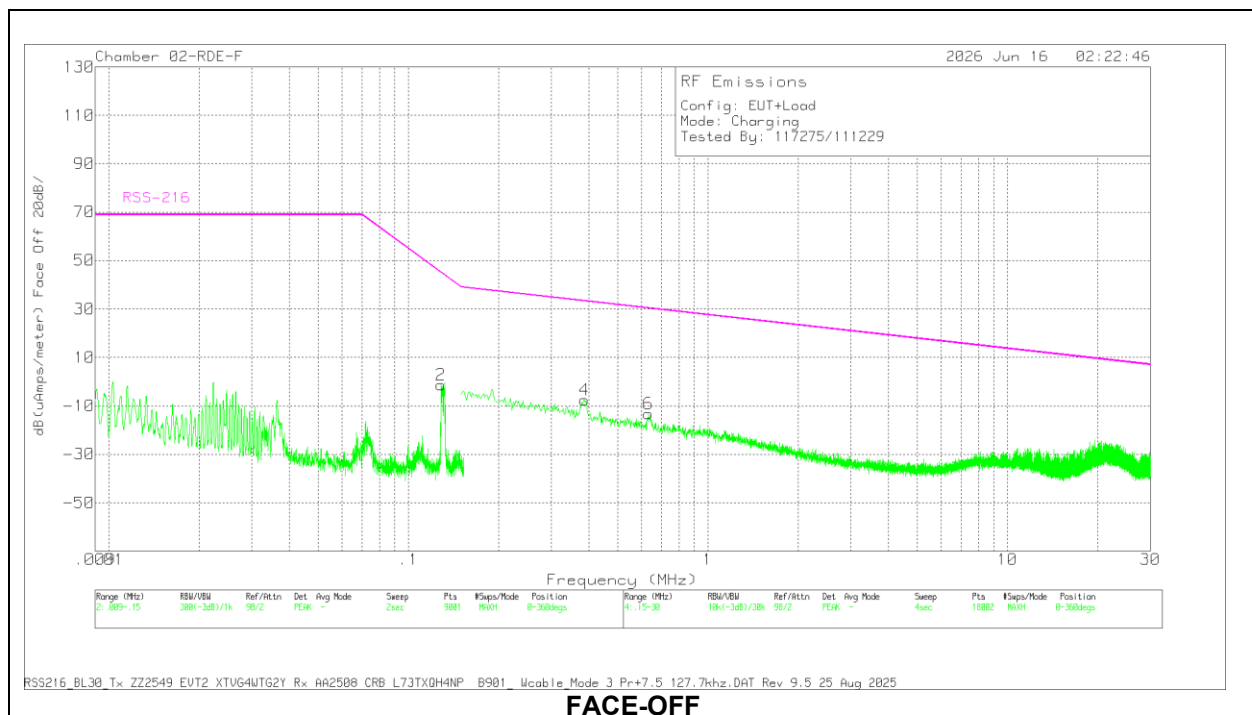
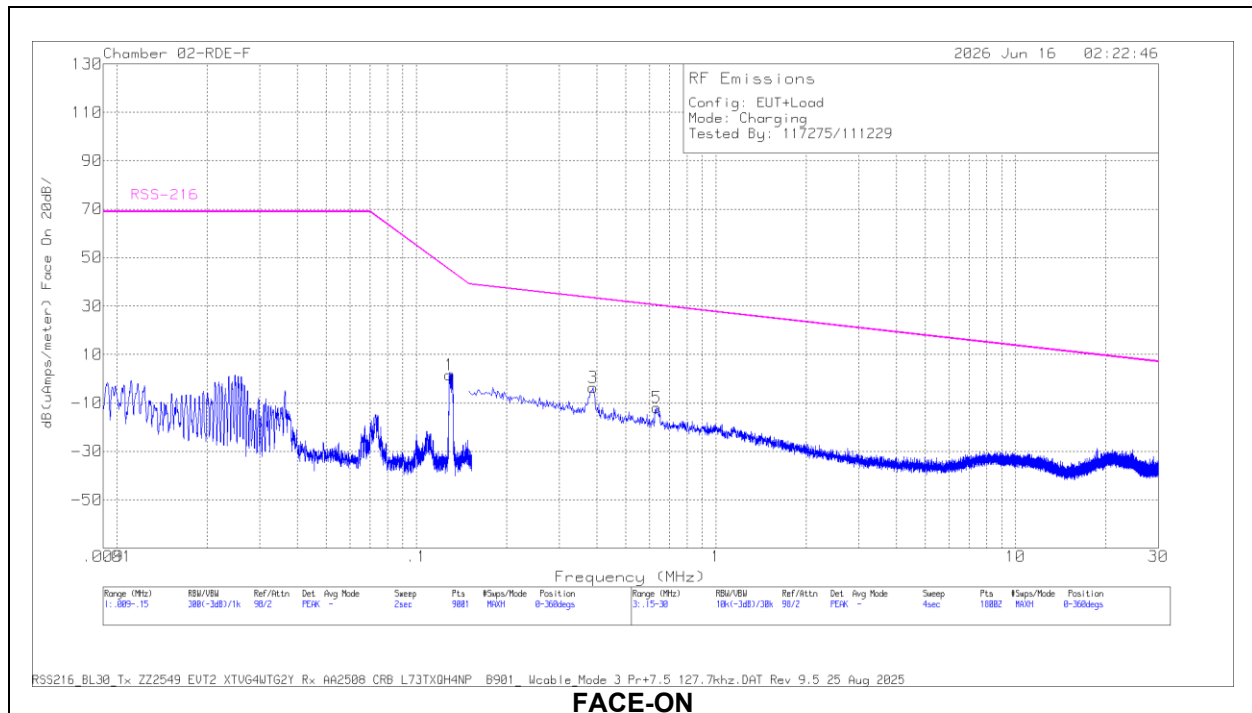
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1298	30.53	Pk	55.8	-32.5	-80	-26.17	45.36	-71.53	25.36	-51.53	0-360	Face-on
2	.1297	24.65	Pk	55.8	-32.5	-80	-32.05	45.37	-77.42	25.37	-57.42	0-360	Face-off
3	.3865	21.01	Pk	56.2	-32.5	-80	-35.29	35.87	-71.16	15.87	-51.16	0-360	Face-on
4	.3868	19.91	Pk	56.2	-32.5	-80	-36.39	35.86	-72.25	15.86	-52.25	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	.5504	18.84	Pk	56.2	-32.3	-40	2.74	32.79	-30.05	0-360	Face-on
6	.5506	20.02	Pk	56.2	-32.3	-40	3.92	32.79	-28.87	0-360	Face-off

Pk - Peak detector

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

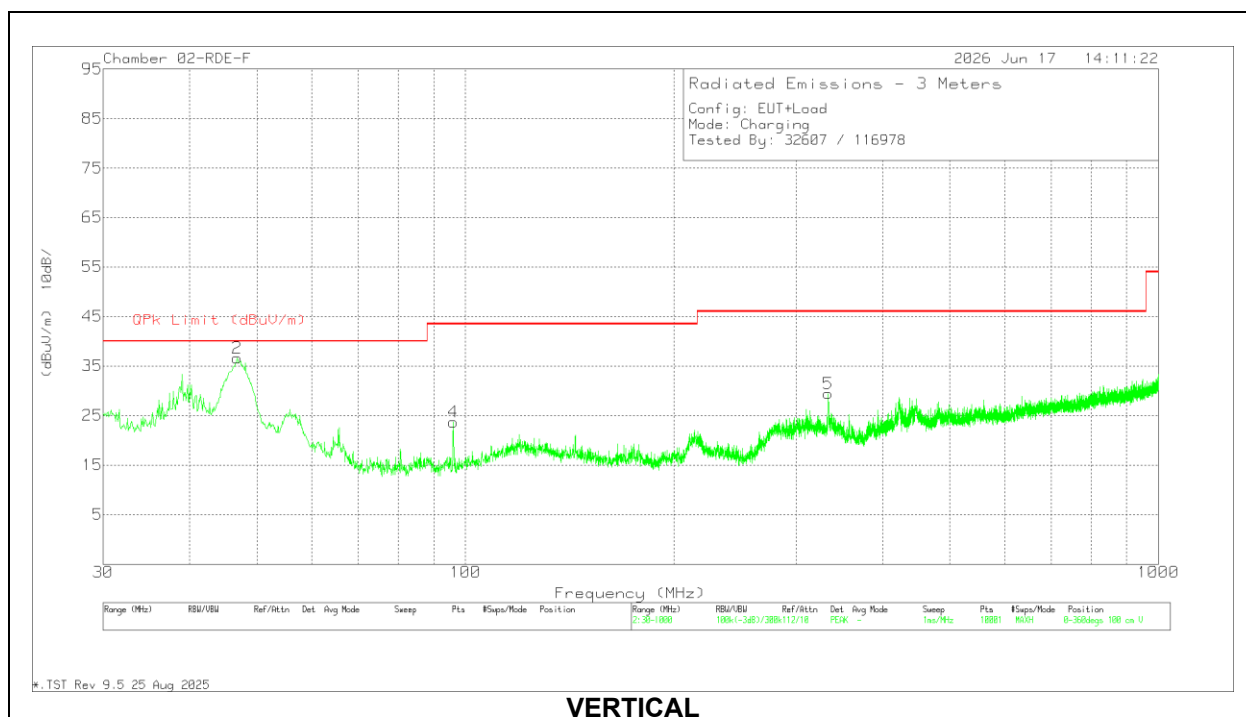
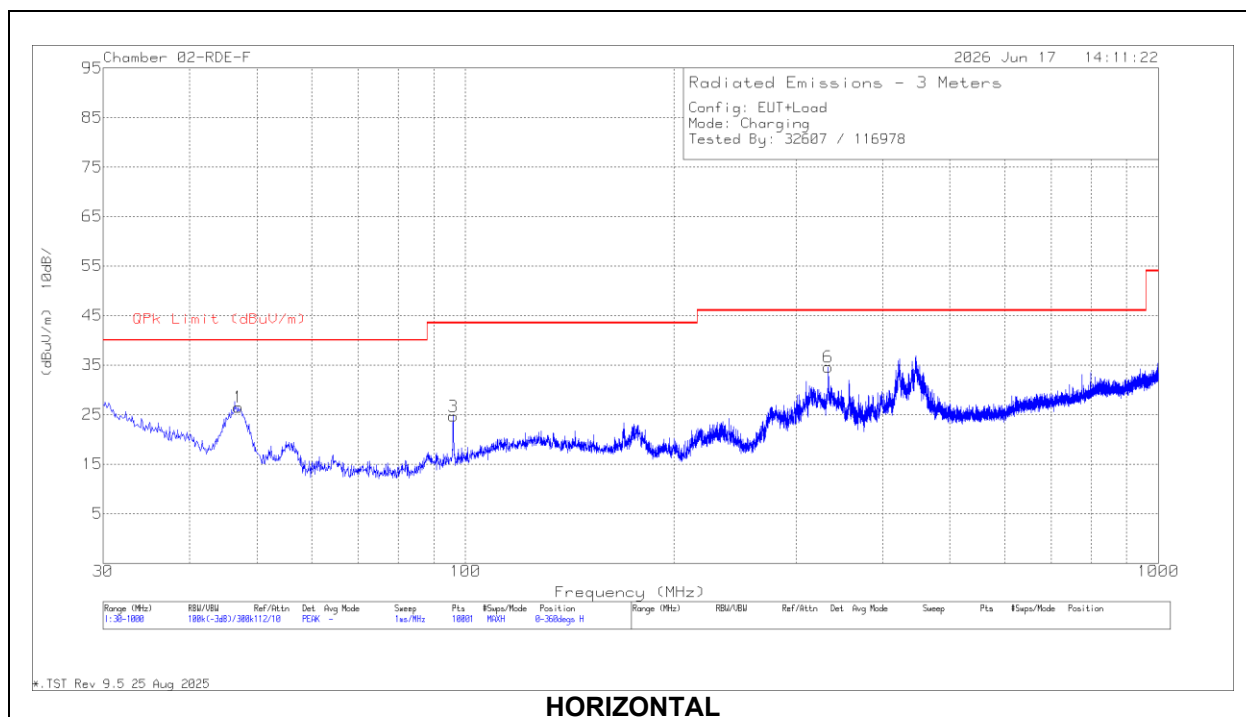


DATA

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	.1288	29.83	Pk	4.3	-32.5	1.63	45.01	-43.38	0-360	Face-on
2	.1287	26.84	Pk	4.3	-32.5	-1.36	45.04	-46.4	0-360	Face-off
3	.3888	26.25	Pk	2.7	-32.6	-3.65	33.25	-36.9	0-360	Face-on
4	.3871	22.21	Pk	2.7	-32.5	-7.59	33.27	-40.86	0-360	Face-off
5	.6341	21.65	Pk	-1.2	-32.4	-11.95	30.29	-42.24	0-360	Face-on
6	.6325	20.37	Pk	-1.1	-32.4	-13.13	30.31	-43.44	0-360	Face-off

Pk - Peak detector

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

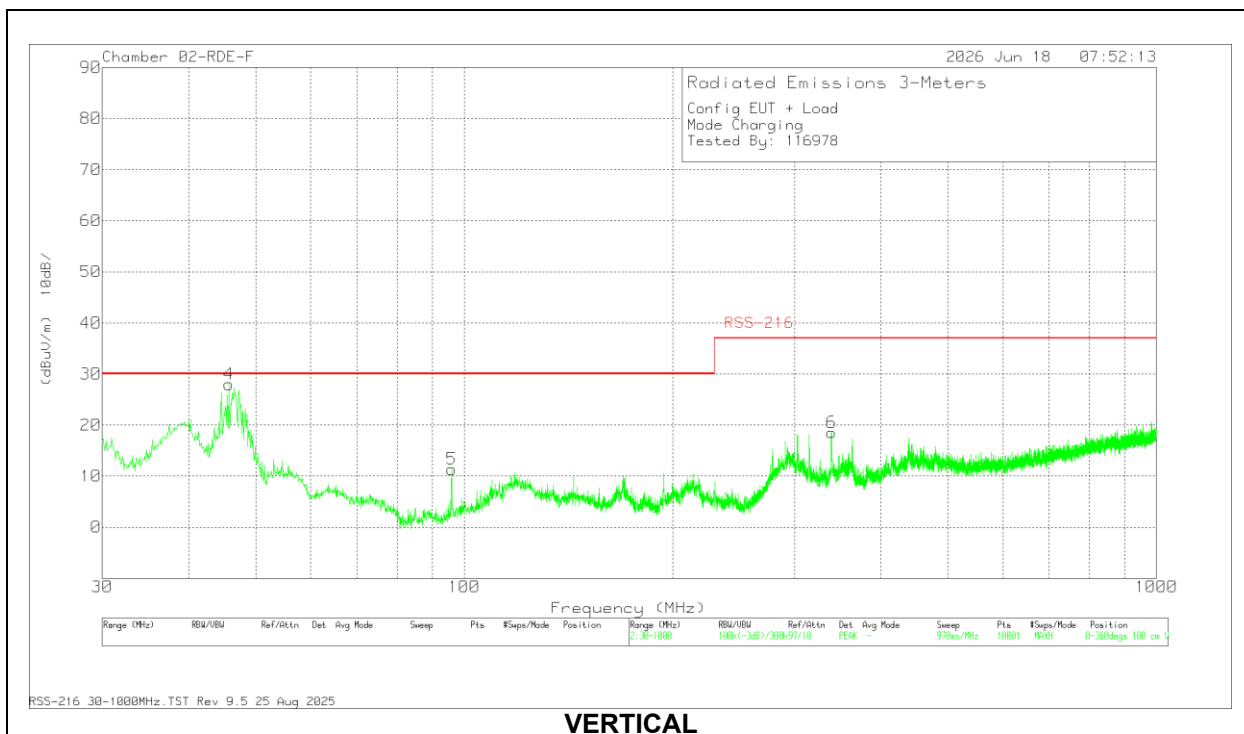
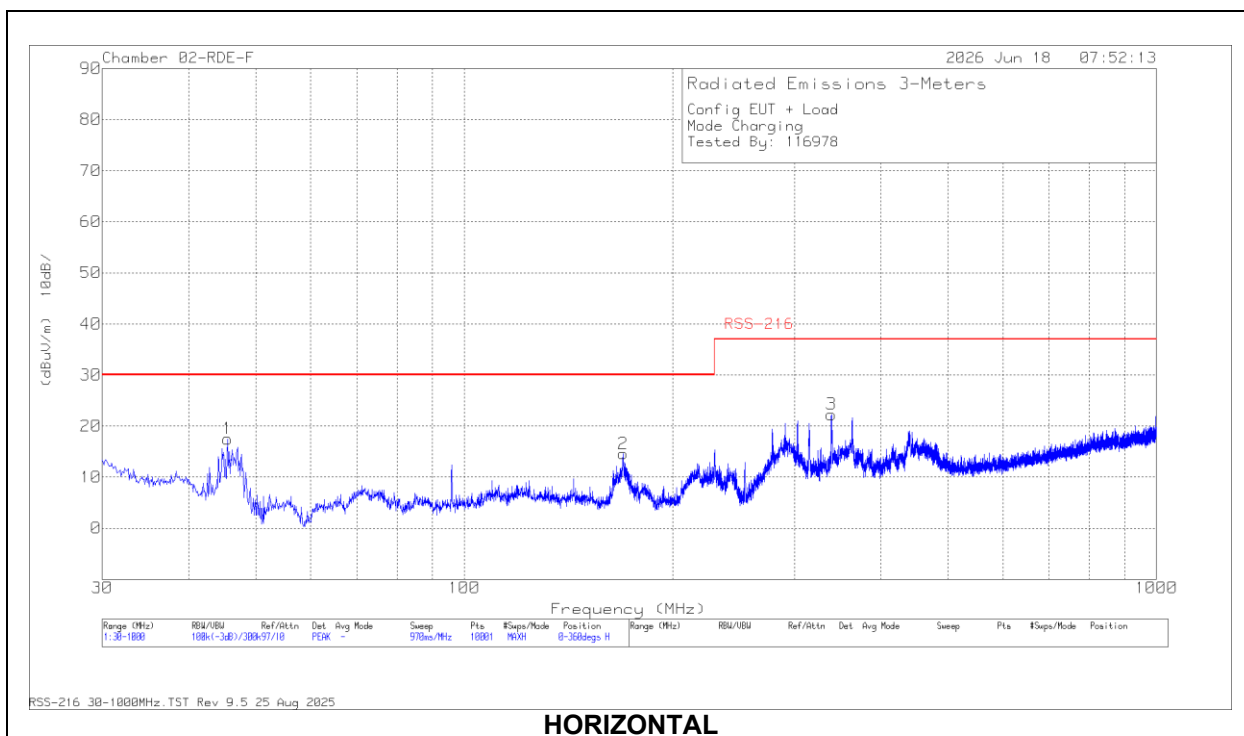


DATA

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
6	* 333.912	39.44	Qp	19.8	-30	29.24	46.02	-16.78	114	115	H
5	* 333.846	36.87	Qp	19.8	-30	26.67	46.02	-19.35	125	157	V
2	46.8688	49.71	Qp	14.8	-31.3	33.21	40	-6.79	100	100	V
1	47.0573	39.57	Qp	14.7	-31.2	23.07	40	-16.93	87	366	H
4	95.9875	37.74	Qp	15.2	-31.1	21.84	43.52	-21.68	327	106	V
3	96.0003	39.16	Qp	15.2	-31.1	23.26	43.52	-20.26	244	185	H

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

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



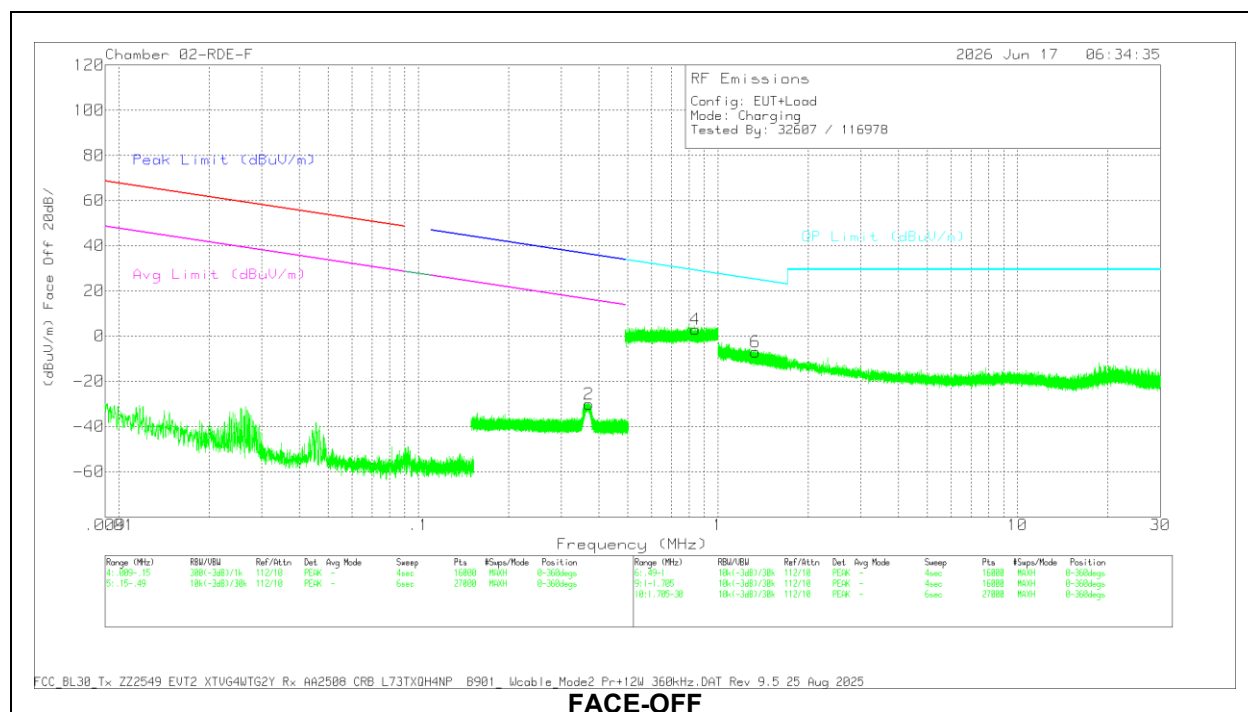
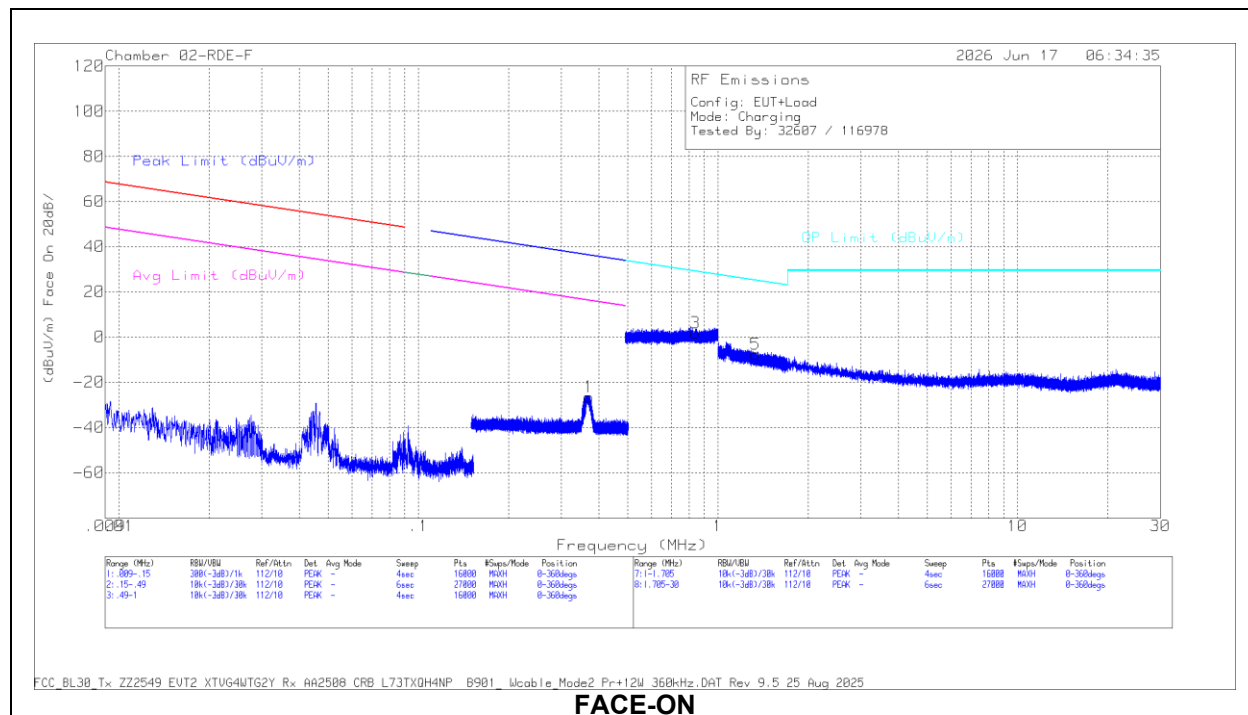
DATA

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	45.5328	34.41	Qp	15.6	-31.5	-10.5	8.01	30	-21.99	167	355	H
4	46.0669	45.08	Qp	15.3	-31.6	-10.5	18.28	30	-11.72	135	100	V
5	96.009	37.33	Qp	15.2	-31.1	-10.5	10.93	30	-19.07	91	118	V
2	169.682	37.24	Qp	17.5	-30.6	-10.5	13.64	30	-16.36	289	140	H
6	339.403	37.65	Qp	19.9	-29.7	-10.5	17.35	37	-19.65	332	159	V
3	339.45	41.07	Qp	19.9	-29.7	-10.5	20.77	37	-16.23	343	104	H

Qp - Quasi-Peak detector

9.3. CONFIGURATION 3: OPERATING MODE W/ LOAD 360kHz

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



DATA

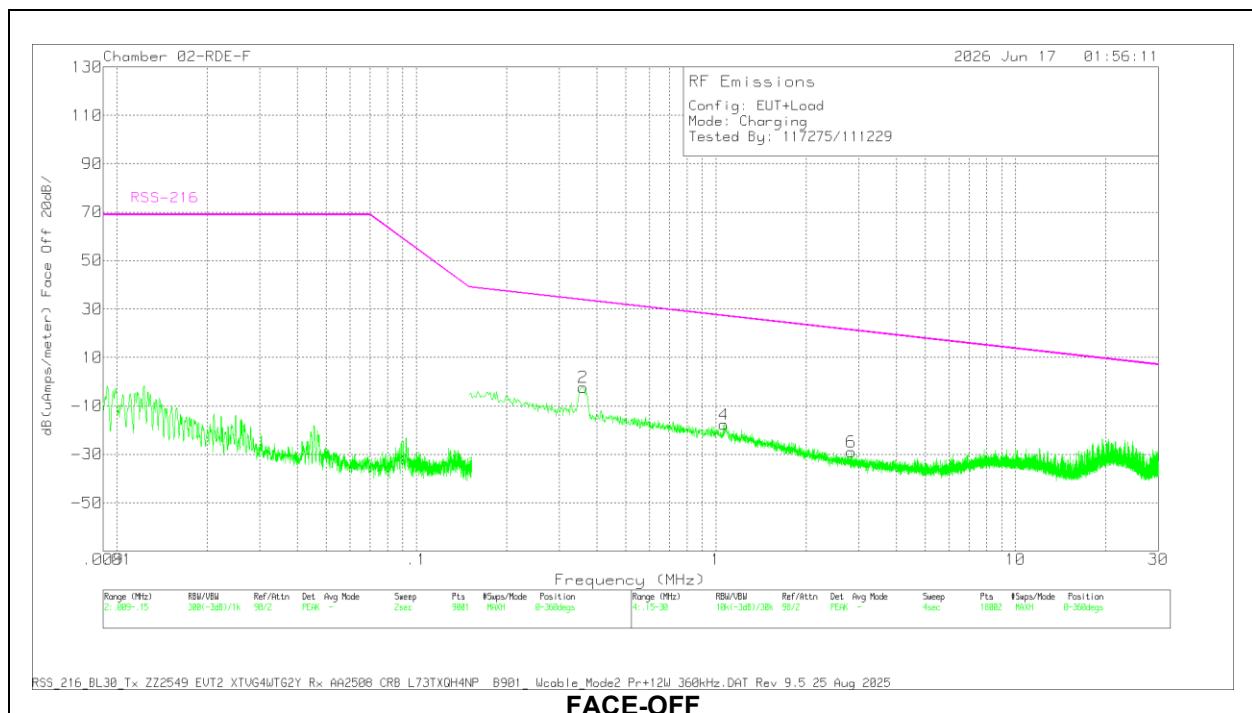
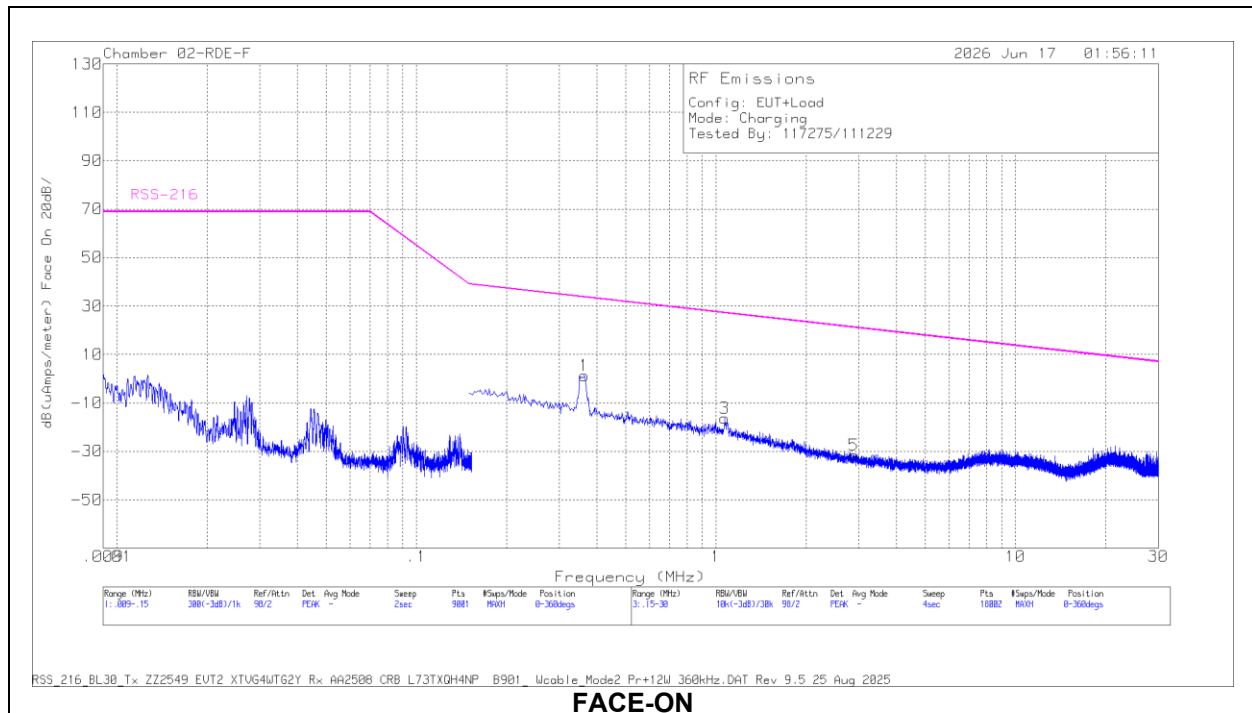
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E (dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.371	29.79	Pk	56.2	-32.4	-80	-26.41	36.22	-62.63	16.22	-42.63	0-360	Face-on
2	.3712	26.08	Pk	56.2	-32.4	-80	-30.12	36.22	-66.34	16.22	-46.34	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	.8396	18.13	Pk	56.3	-32.6	-40	1.83	29.14	-27.31	0-360	Face-on
4	.8397	19.38	Pk	56.3	-32.6	-40	3.08	29.14	-26.06	0-360	Face-off
5	1.3346	20.04	Pk	45.1	-32.7	-40	-7.56	25.12	-32.68	0-360	Face-on
6	1.3352	20.71	Pk	45.1	-32.7	-40	-6.89	25.12	-32.01	0-360	Face-off

Pk - Peak detector

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

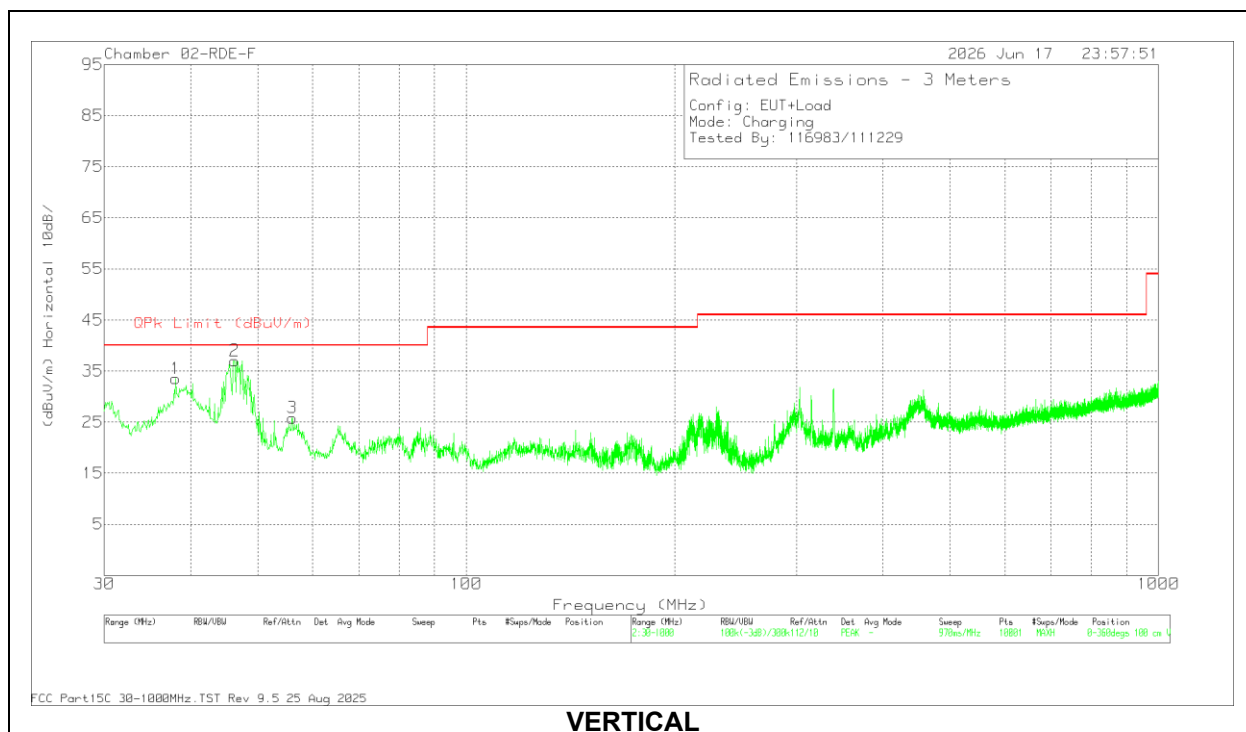
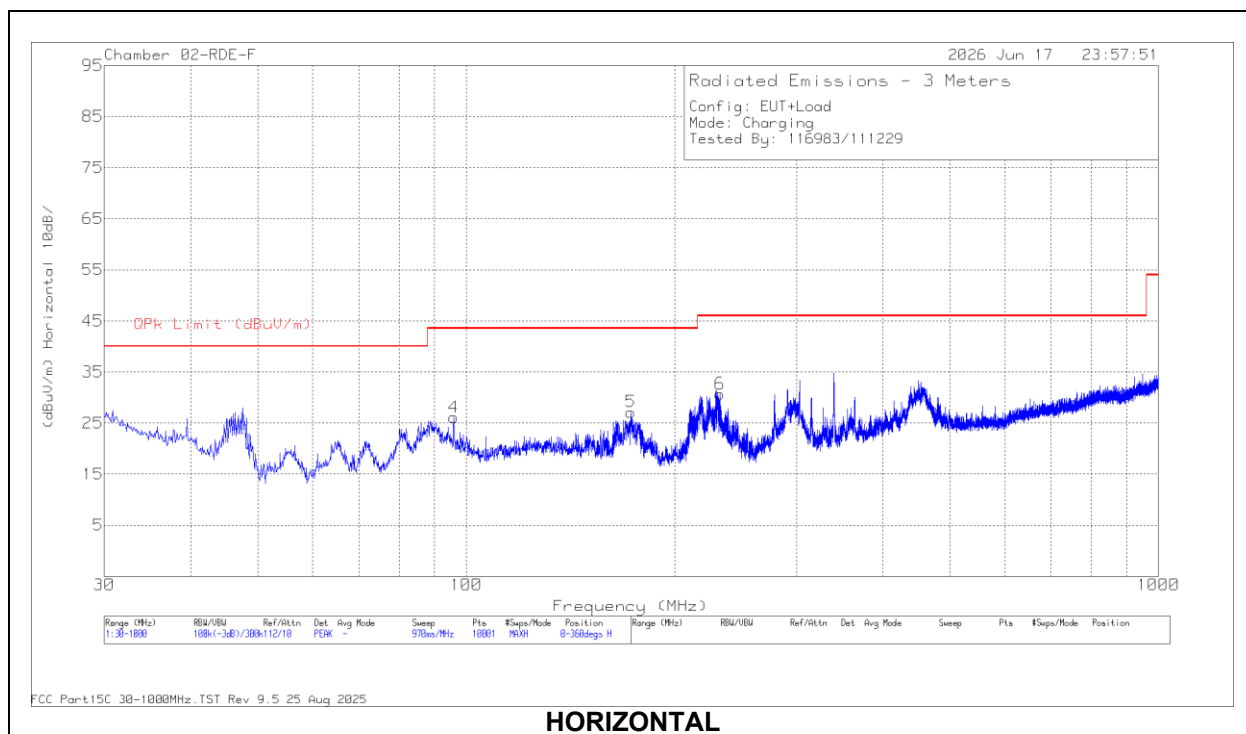


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H (dB/m)	Amp/Cbl (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Limit (dBµA/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.3639	30.27	Pk	3.3	-32.3	1.27	33.65	-32.38	0-360	Face-on
2	.3606	26.47	Pk	3.4	-32.2	-2.33	33.7	-36.03	0-360	Face-off
3	1.0702	21.3	Pk	-5.1	-32.6	-16.4	27.13	-43.53	0-360	Face-on
4	1.0619	19.96	Pk	-5	-32.7	-17.74	27.18	-44.92	0-360	Face-off
5	2.889	13.12	Pk	-12.4	-32.2	-31.48	21.13	-52.61	0-360	Face-on
6	2.831	15.6	Pk	-12.3	-32.3	-29	21.26	-50.26	0-360	Face-off

Pk - Peak detector

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



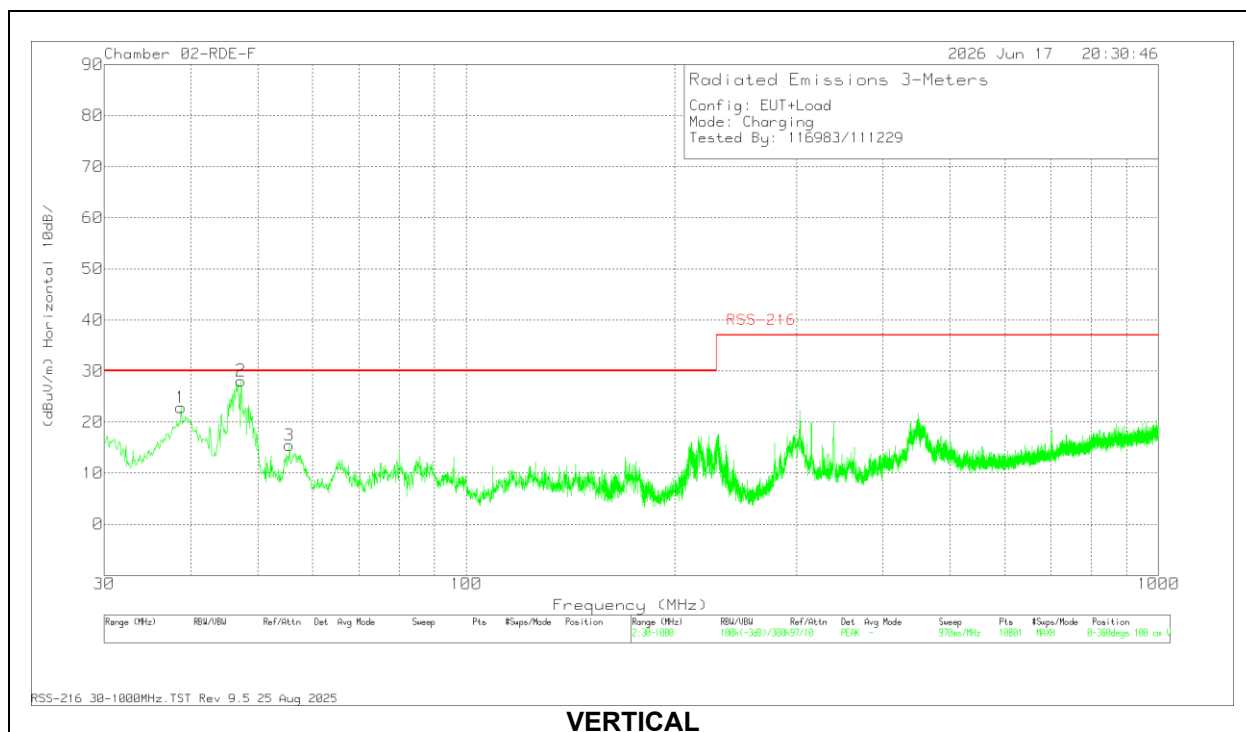
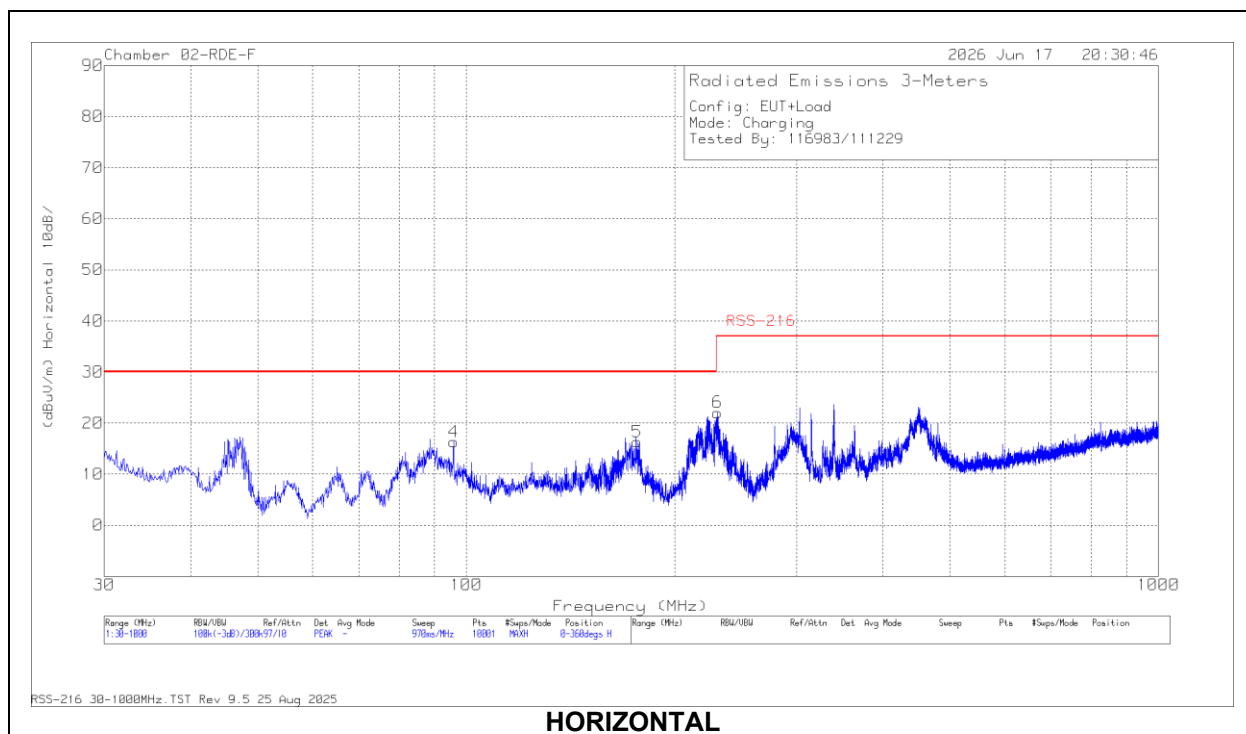
DATA

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	* 171.697	38.71	Qp	17.4	-31	25.11	43.52	-18.41	129	102	H
1	39.2197	39.67	Qp	20.2	-31.6	28.27	40	-11.73	120	101	V
2	46.2519	44.38	Qp	15.1	-31.5	27.98	40	-12.02	158	123	V
3	54.5308	36.05	Qp	13	-31.4	17.65	40	-22.35	159	269	V
4	96.0151	40.38	Qp	15.2	-31.1	24.48	43.52	-19.04	218	170	H
6	224.866	43.66	Qp	16.7	-30.3	30.06	46.02	-15.96	92	102	H

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

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	39.3739	39.81	Qp	20.1	-31.5	-10.5	17.91	30	-12.09	131	105	V
2	46.4013	45	Qp	15.1	-31.4	-10.5	18.2	30	-11.8	62	113	V
3	56.5471	37.77	Qp	13	-31.4	-10.5	8.87	30	-21.13	184	193	V
4	95.978	40.56	Qp	15.2	-31.1	-10.5	14.16	30	-15.84	215	320	H
5	173.706	38.09	Qp	17.3	-30.5	-10.5	14.39	30	-15.61	112	129	H
6	224.238	43.59	Qp	16.7	-30	-10.5	19.79	30	-10.21	95	118	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:	6/17/2026
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10.1. CONFIGURATION 2: OPERATING MODE W/ LOAD 127.7kHz

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	126.57901	22.253	126.66328	13.708	126.65719	13.747	126.32348	13.772	22.2530	-24.3220	-2.0690	45.010	Yes	Pass
+20°C (Normal)		129.481325	25.55	129.218720	25.67	129.662194	25.70	129.646195	25.95	25.9520	-24.3220	1.6300		Yes	Pass
-20°C		126.218711	22.07	126.528888	21.11	126.644350	21.06	126.647345	21.11	22.0660	-24.3220	-2.2560		Yes	Pass
+20°C	85% (or manufacturer declared min)	129.767086	25.95	129.497303	25.93	129.215033	25.93	129.218488	25.92	25.9480	-24.3220	1.626	45.010	Yes	Pass
	115% (or manufacturer declared max)	129.215033	26.01	129.645646	25.97	129.219013	25.98	129.215148	25.94	26.0110	-24.3220	1.689		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 W/ LOAD 360kHz

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	360.12878	24.304	360.55809	22.023	360.55838	19.668	359.53858	18.42	24.3040	-26.9280	-2.6240	33.650	Yes	Pass
+20°C (Normal)		360.088708	28.16	359.505637	28.20	359.973350	28.16	360.085130	28.19	28.1980	-26.9280	1.2700		Yes	Pass
-20°C		360.090466	22.49	360.062769	21.99	360.097354	21.85	359.484975	22.46	22.4870	-26.9280	-4.4410		Yes	Pass
+20°C	85% (or manufacturer declared min)	359.612622	27.96	359.922913	27.95	360.214649	27.94	360.597272	27.86	27.9630	-26.9280	1.035	33.650	Yes	Pass
	115% (or manufacturer declared max)	359.301500	28.19	359.283264	28.14	360.235165	28.17	359.741816	28.11	28.1860	-26.9280	1.258		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.

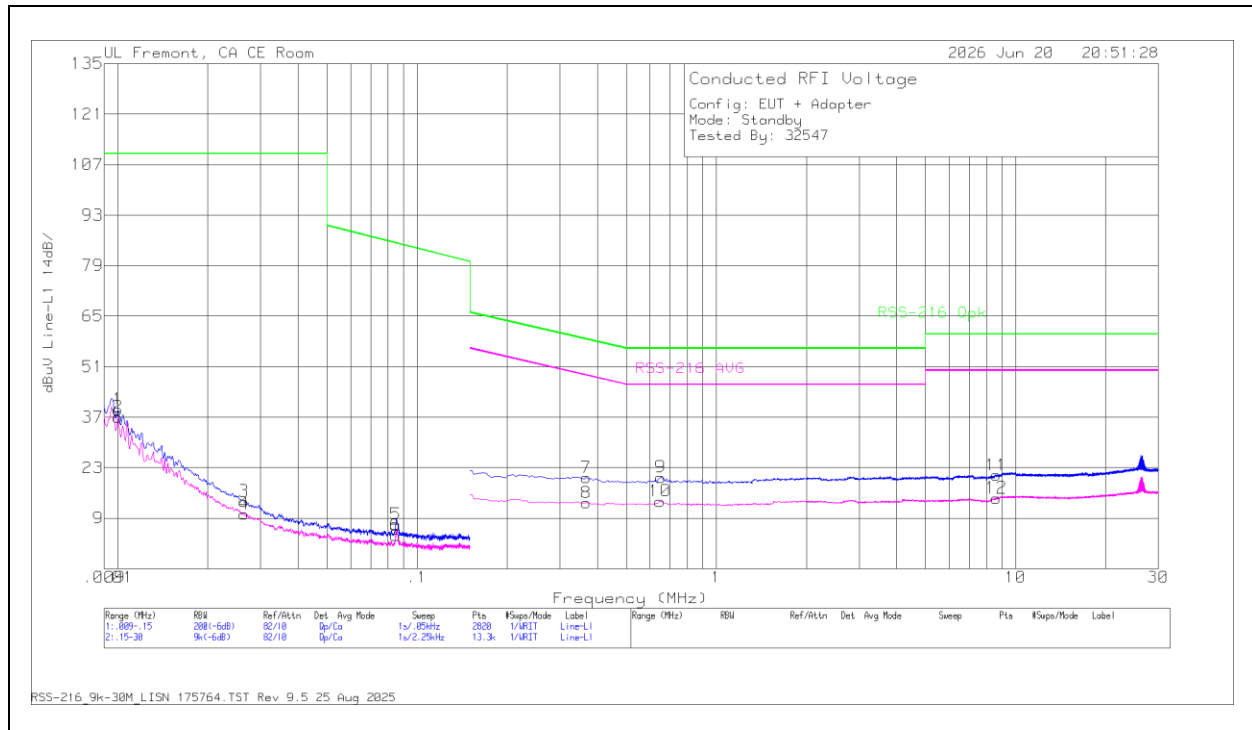
Line conducted data is recorded for both NEUTRAL and HOT lines.

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



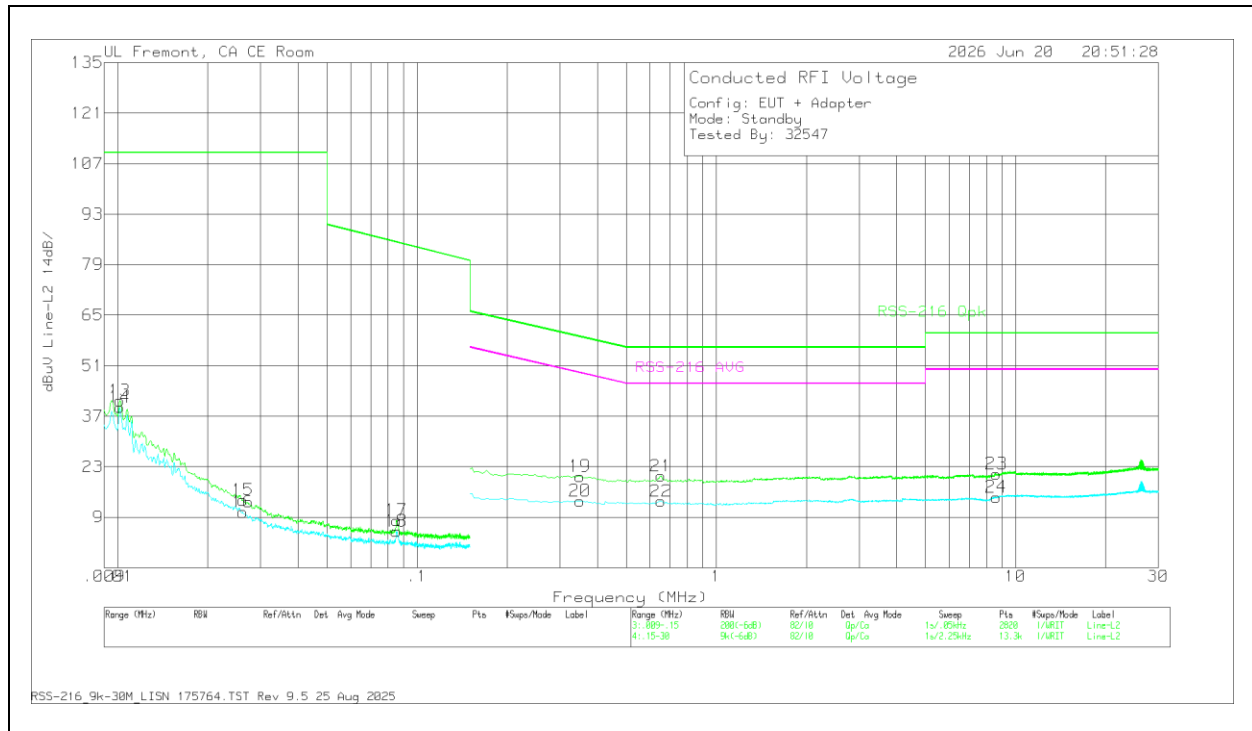
DATA

Range 1: Line-L1 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)
2	.01	9.75	Ca	4.6	0	12.7	10	37.05	-	-
4	.0264	-11.88	Ca	1.3	0	10.8	10	10.22	-	-
6	.0848	-15.57	Ca	.2	0	9.6	10	4.23	-	-
1	.01	11.88	Qp	4.6	0	12.7	10	39.18	110	-70.82
3	.0264	-8.42	Qp	1.3	0	10.8	10	13.68	110	-96.32
5	.0849	-12.48	Qp	.2	0	9.6	10	7.32	85.19	-77.87

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	.3671	-6.03	Ca	0	0	9.3	10	13.27	-	-	48.57	-35.3
10	.6484	-5.79	Ca	0	.1	9.4	10	13.71	-	-	46	-32.29
12	8.6213	-5.22	Ca	.1	.2	9.5	10	14.58	-	-	50	-35.42
7	.3683	.93	Qp	0	0	9.3	10	20.23	58.54	-38.31	-	-
9	.6518	.85	Qp	0	.1	9.4	10	20.35	56	-35.65	-	-
11	8.6303	1.15	Qp	.1	.2	9.5	10	20.95	60	-39.05	-	-

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	.0102	12.57	Ca	4.5	0	12.4	10	39.47	-	-	
16	.0262	-11.66	Ca	1.3	0	10.8	10	10.44	-	-	
18	.0853	-14.68	Ca	.2	0	9.6	10	5.12	-	-	
13	.0102	14.41	Qp	4.5	0	12.4	10	41.31	110	-68.69	
15	.0262	-8.34	Qp	1.3	0	10.8	10	13.76	110	-96.24	
17	.0853	-11.69	Qp	.2	0	9.6	10	8.11	85.14	-77.03	

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	.3503	-5.81	Ca	0	0	9.3	10	13.49	-	-	48.96	-35.47
22	.654	-5.94	Ca	0	.1	9.3	10	13.46	-	-	46	-32.54
24	8.6179	-5.22	Ca	.1	.2	9.5	10	14.58	-	-	50	-35.42
19	.3503	.99	Qp	0	0	9.3	10	20.29	58.96	-38.67	-	-
21	.654	1.03	Qp	0	.1	9.3	10	20.43	56	-35.57	-	-
23	8.6348	1.22	Qp	.1	.2	9.5	10	21.02	60	-38.98	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

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

LINE 1 RESULTS



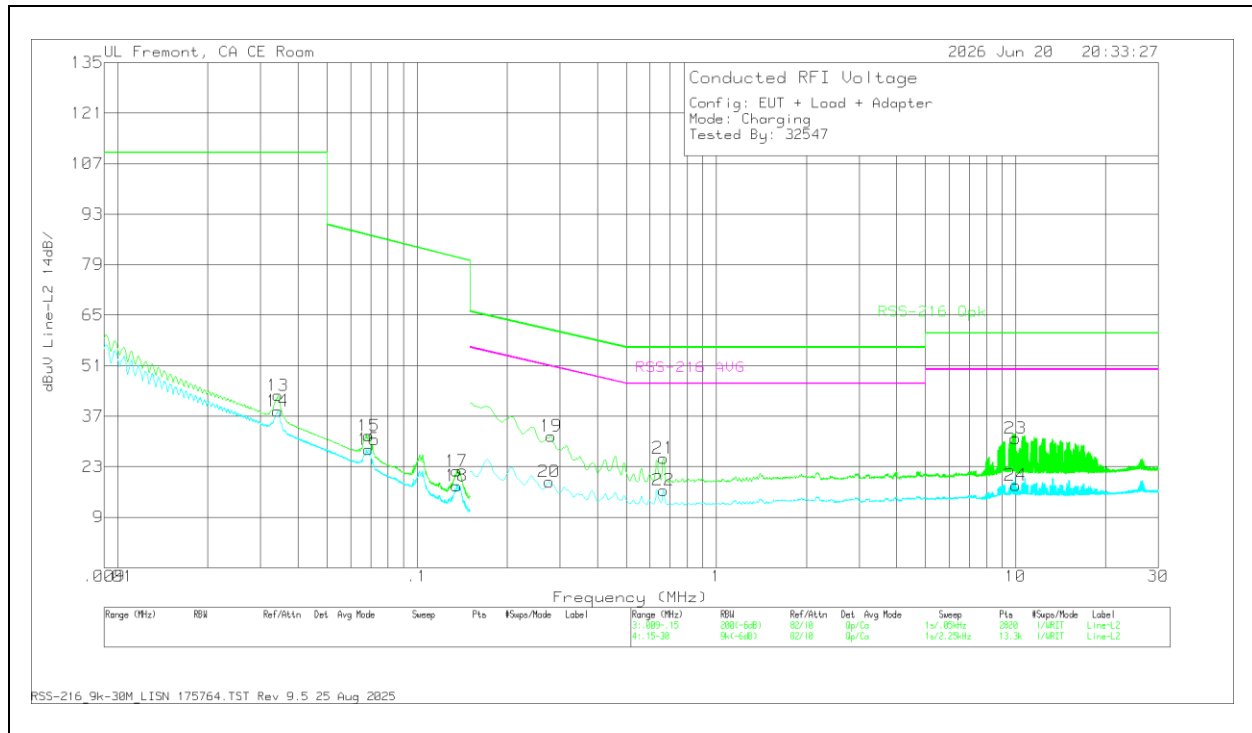
DATA

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	.0341	17.65	Ca	.7	0	10.5	10	38.85	-	-
4	.0682	7.56	Ca	.2	0	9.7	10	27.46	-	-
6	.1355	-3.02	Ca	.1	0	9.4	10	16.48	-	-
1	.0341	21.88	Qp	.7	0	10.5	10	43.08	110	-66.92
3	.0682	11.8	Qp	.2	0	9.7	10	31.7	87.18	-55.48
5	.1355	1.32	Qp	.1	0	9.4	10	20.82	80.93	-60.11

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	.276	-63	Ca	0	0	9.4	10	18.77	-	-	50.94	-32.17
10	.6653	-2.51	Ca	0	.1	9.4	10	16.99	-	-	46	-29.01
12	9.978	-1.87	Ca	.1	.2	9.5	10	17.93	-	-	50	-32.07
7	.2805	11.47	Qp	0	0	9.4	10	30.87	60.8	-29.93	-	-
9	.6675	5.82	Qp	0	.1	9.4	10	25.32	56	-30.68	-	-
11	9.9578	9.06	Qp	.1	.2	9.5	10	28.86	60	-31.14	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



DATA

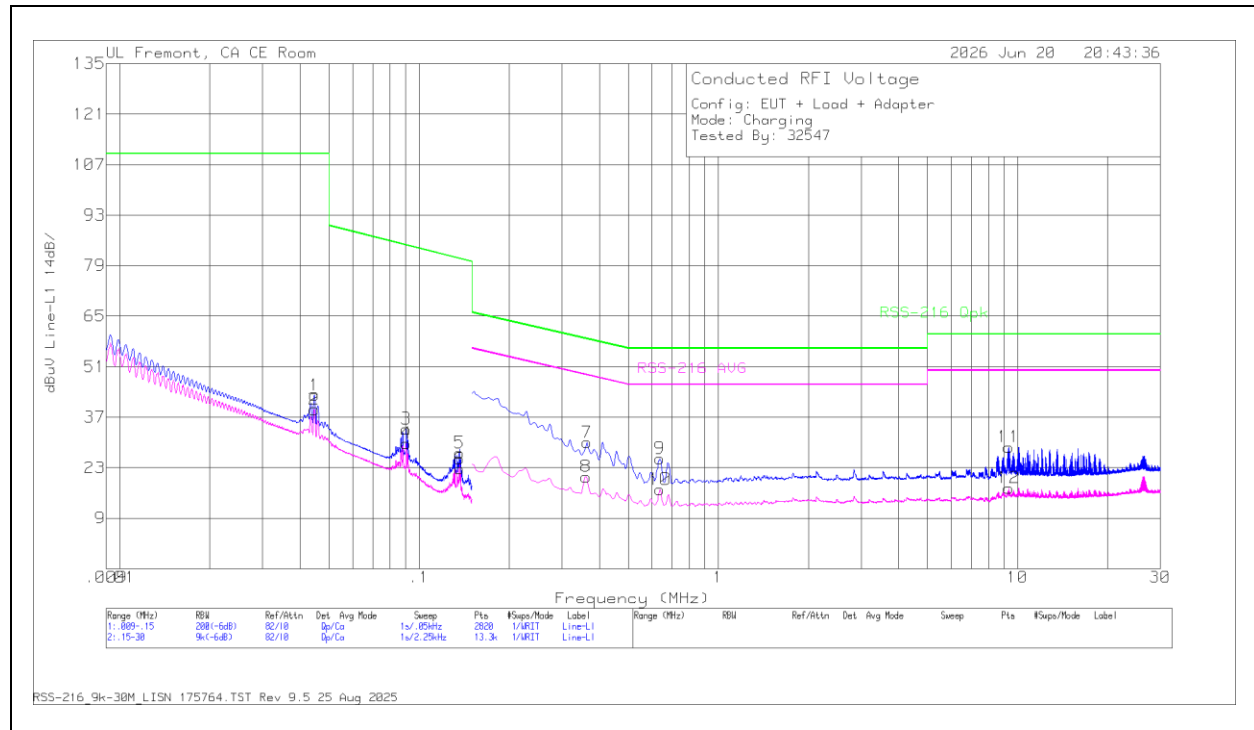
Range 3: Line-L2 .009 - .15MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2 (dB)	Cbl (dB)	Line 1 C3_C1_plus Limiter (dB)	10dB Atten (dB)	Corrected Reading dBuV	RSS-216 Qpk (dBuV)	Margin (dB)
14	.0342	17.21	Ca	.7	0	10.5	10	38.41	-	-
16	.0689	7.88	Ca	.2	0	9.7	10	27.78	-	-
18	.1356	-1.81	Ca	.1	0	9.4	10	17.69	-	-
13	.0343	21.52	Qp	.7	0	10.5	10	42.72	110	-67.28
15	.0689	11.68	Qp	.2	0	9.7	10	31.58	87.08	-55.5
17	.1356	2.29	Qp	.1	0	9.4	10	21.79	80.92	-59.13

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	.276	-5.8	Ca	0	0	9.4	10	18.82	-	-	50.94	-32.12
22	.6653	-2.98	Ca	0	.1	9.4	10	16.52	-	-	46	-29.48
24	9.9983	-1.96	Ca	.1	.2	9.5	10	17.84	-	-	50	-32.16
19	.2805	12.08	Qp	0	0	9.4	10	31.48	60.8	-29.32	-	-
21	.6653	5.85	Qp	0	.1	9.4	10	25.35	56	-30.65	-	-
23	9.9949	11.05	Qp	.1	.2	9.5	10	30.85	60	-29.15	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.3. CONFIGURATION 3: OPERATING MODE W/ LOAD 360kHz

LINE 1 RESULTS



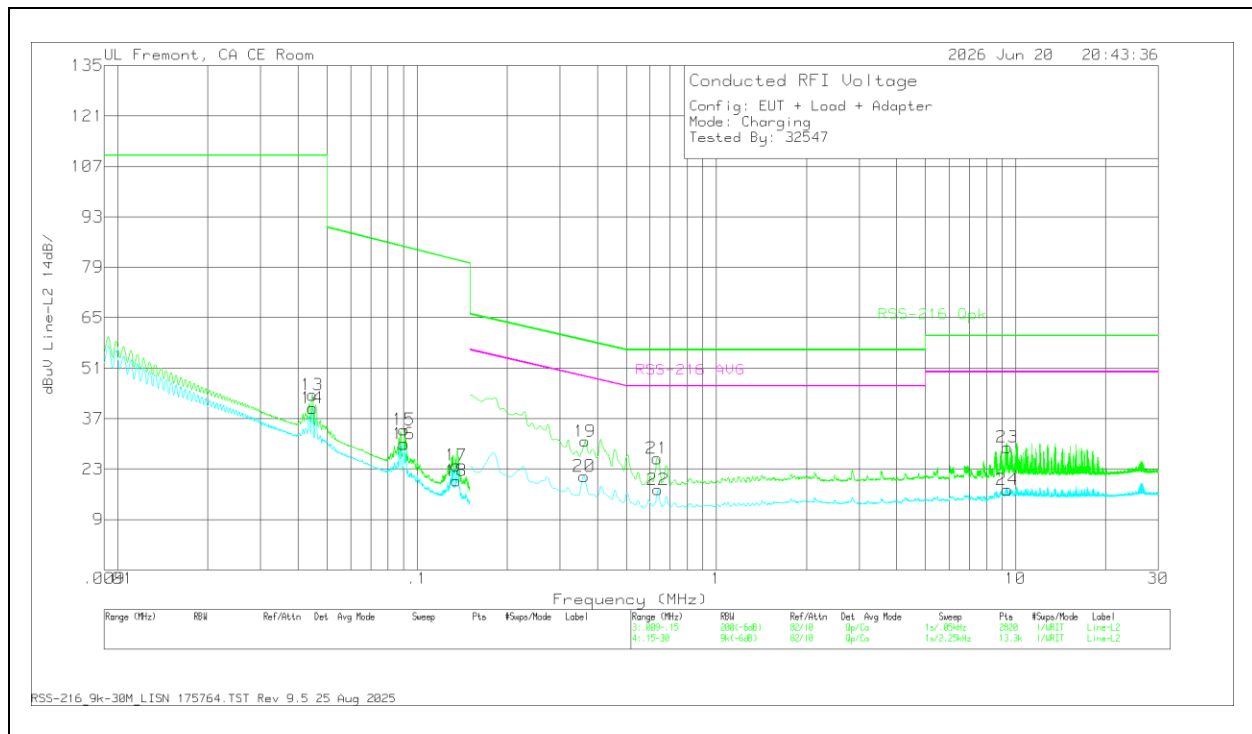
DATA

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	.0446	18.69	Ca	.4	0	10.1	10	39.19	-	-	
4	.0905	10.04	Ca	.1	0	9.6	10	29.74	-	-	
6	.1366	3.2	Ca	.1	0	9.4	10	22.7	-	-	
1	.0447	22.59	Qp	.4	0	10.1	10	43.09	110	-66.91	
3	.0905	14.05	Qp	.1	0	9.6	10	33.75	84.6	-50.85	
5	.1366	7.6	Qp	.1	0	9.4	10	27.1	80.86	-53.76	

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	.3615	1.12	Ca	0	0	9.4	10	20.52	-	-	48.69	-28.17
10	.6383	-2.43	Ca	0	.1	9.3	10	16.97	-	-	46	-29.03
12	9.3413	-2.42	Ca	.1	.2	9.5	10	17.38	-	-	50	-32.62
7	.3638	10.69	Qp	0	0	9.3	10	29.99	58.64	-28.65	-	-
9	.6383	6.16	Qp	0	.1	9.3	10	25.56	56	-30.44	-	-
11	9.3413	8.91	Qp	.1	.2	9.5	10	28.71	60	-31.29	-	-

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	.0447	19.4	Ca	.4	0	10.1	10	39.9	-	-	
16	.0904	10.27	Ca	.1	0	9.6	10	29.97	-	-	
18	.1352	.26	Ca	.1	0	9.4	10	19.76	-	-	
13	.0447	23.07	Qp	.4	0	10.1	10	43.57	110	-66.43	
15	.0904	14.19	Qp	.1	0	9.6	10	33.89	84.61	-50.72	
17	.1351	4.52	Qp	.1	0	9.4	10	24.02	80.95	-56.93	

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	.3615	1.6	Ca	0	0	9.4	10	21	-	-	48.69	-27.69
22	.6383	-2.12	Ca	0	.1	9.3	10	17.28	-	-	46	-28.72
24	9.384	-2.56	Ca	.1	.2	9.5	10	17.24	-	-	50	-32.76
19	.3638	11.42	Qp	0	0	9.3	10	30.72	58.64	-27.92	-	-
21	.6338	6.56	Qp	0	.1	9.3	10	25.96	56	-30.04	-	-
23	9.384	9.26	Qp	.1	.2	9.5	10	29.06	60	-30.94	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 16097213-EP2V1 for setup photos.

END OF TEST REPORT