

TEST REPORT

Report Number : 15496282-E19V3

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

Model : A3260 (Parent)
A3516, A3517, A3518 (Variants)

FCC ID : BCG-E8948A (Parent)
BCG-E8954A, BCG-E8955A, BCG-E8956A (Variants)

IC : 579C-E8948A (Parent)
579C-E8954A, 579C-E8955A, 579C-E8956A (Variants)

EUT Description : SMARTPHONE

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:
August 14, 2025

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	7/3/2025	Initial Issue	Chin Pang
V2	7/9/2025	Updated max e-field h-field, corrected 9.1.5 table, added ac line units	Tri Pham
V3	8/14/2025	Updated worst case statement	Tri Pham

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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	A3260 (Parent) A3516, A3517, A3518 (Variants)
Brand	APPLE
EUT Description	SMARTPHONE
FCC ID	BCG-E8948A (Parent) BCG-E8954A, BCG-E8955A, BCG-E8956A (Variants)
IC	579C-E8948A (Parent) 579C-E8954A, 579C-E8955A, 579C-E8956A (Variants)
SERIAL NUMBER	JWW996Y631, YQ439N25X2
SAMPLE RECEIPT DATE	May 13, 2025
DATE TESTED	May 13, 2025 to June 02, 2025
Applicable Standards	FCC 47 CFR PART 15 SUBPART C ISED RSS-216 ISSUE 3 ISED RSS-GEN Issue 5 + A1 + A2
Test Results	COMPLIES
<p>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.</p> <p>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.</p> <p>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.</p>	
Approved & Released By:	Prepared By:
	
Thu Chan Staff Engineer UL Verification Services Inc.	John Allen Bautista Project 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

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

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15
- *ANSI C63.10-2013 ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- KDB 414788 D01 Radiated Test Site v01r01
- RSS-GEN Issue 5 + A1 + A2
- RSS-216 Issue 3

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

4. FACILITIES AND ACCREDITATION

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

	Address	ISED CABID	ISED Company Number	FCC Registration
<input checked="" type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
<input checked="" type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
<input type="checkbox"/>	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
<input type="checkbox"/>	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 Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible.

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 (dB μ V/m)	H-field (3m distance) IC (dB μ A/m)
360	Operating	-23.88	7.97
--	Standby	-42.83	-10.85

6.3. WORST-CASE CONFIGURATION AND MODE

The EUT is a smartphone which is connected to the AC/DC adapter via USB-C cable and the inductive charging coil to charge WPT accessories (Load). For the entire radiated emissions test, the EUT was investigated on the following configurations:

1. At its natural orientation with EUT on a plastic fixture set at center location on Load
2. At its natural orientation with EUT on a plastic fixture with offset from center location on Load

The worst case was natural orientation with EUT on the fixture with offset from center location on Load.

MODE	DESCRIPTION
Standby	EUT with USB-C to USB-C cable powered by AC/DC Adapter
Operating	EUT with USB-C to USB-C cable powered by AC/DC Adapter & Wireless Charging to the Load (360 kHz)

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.

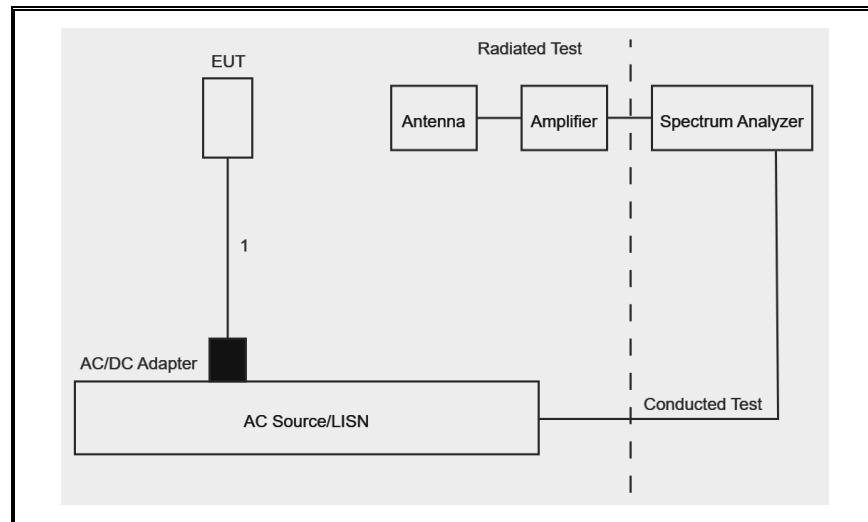
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 300 m open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open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

6.4. DESCRIPTION OF TEST SETUP

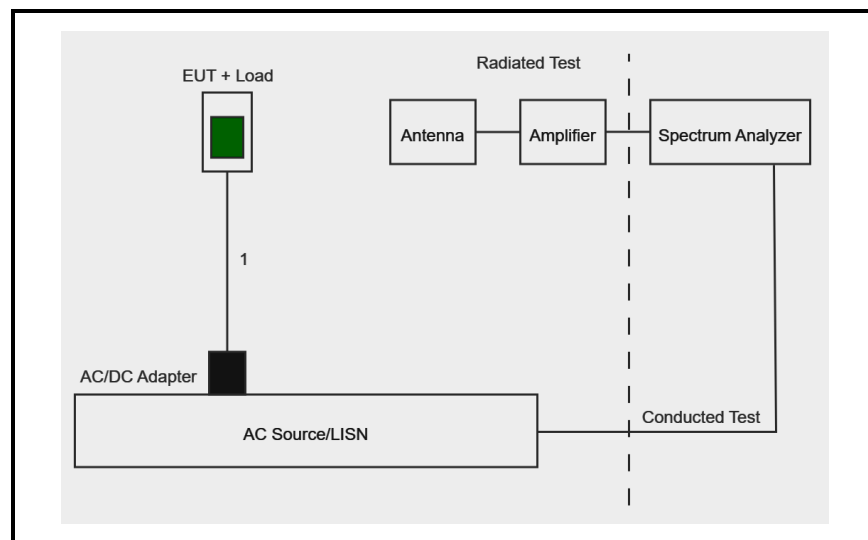
SUPPORT EQUIPMENT & PERIPHERALS LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
AC/DC adapter	Apple	N/A	C4H0313063ZPF4FAZ	N/A
Charging Cable	Apple	N/A	FTLHDB000MV0001061	N/A
WPT Accessory (Load)	Apple	N/A	DND351202Y50NJM1S	N/A

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	2025/09/30
Antenna, Passive Loop 100KHz to 30MHz	Electro-Metrics	EM-6872	170015	2025/09/30
Amplifier, 9kHz to 1GHz, 32dB	Sonoma Instrument	310N	222362	2026/06/30
Antenna, Broadband Hybrid, 30MHz to 2000MHz w/4dB	Sunol Sciences Corp.	JB3	173997	2026/03/31
Sniffer Probes	Electro Metrics	EM-6992	N/A	N/A
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A-544	85213	2026/01/31

AC Line Conducted				
Description	Manufacturer	Model	ID Num	Cal Due
EMI TEST RECEIVER 9kHz - 3.6GHz	Rohde & Schwarz	ESR	171646	2026-02-28
LISN for Conducted Emissions	Fischer Custom Communications, Inc	FCC-LISN-50/250-25-2-01-480V	175765	2026-01-31
Transient Limiter	TE	TBFL1	207996	2025-09-30
UL AUTOMATION SOFTWARE				
Radiated Software	UL	UL EMC	Ver 9.5, 21 May 2024	
Conducted Software	UL	UL EMC	2024.2.23	
AC Line Conducted Software	UL	UL EMC	Ver 9.5, 03 Mar 2023	

Note: For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

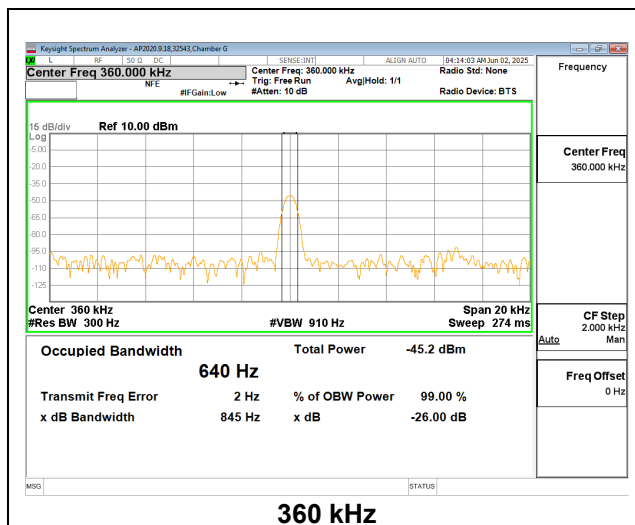
8. OCCUPIED BANDWIDTH

TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 300Hz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

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

RESULTS



9. RADIATED EMISSION TEST RESULTS

LIMITS

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 (dB μ A/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 dB μ A/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 (dB μ V/m)
30 – 230	30
230 – 1000	37
Note: The more stringent limit applies at the transition frequency.	

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.

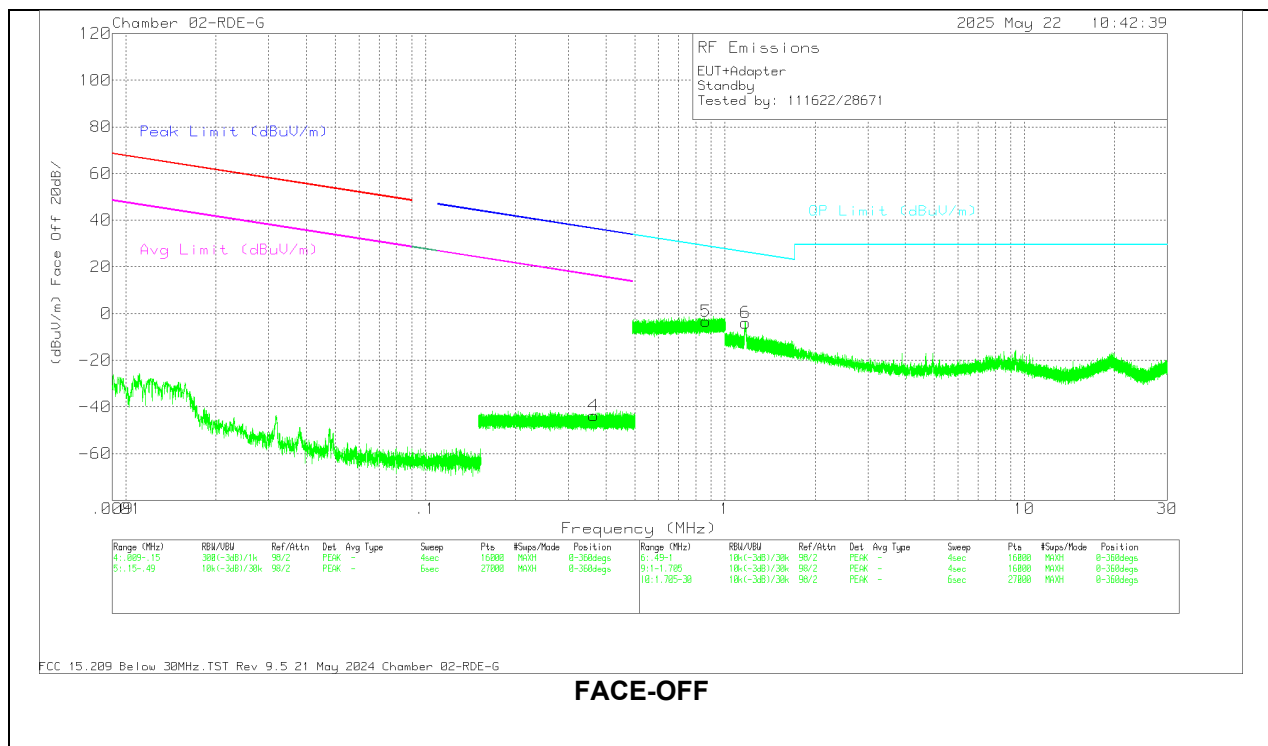
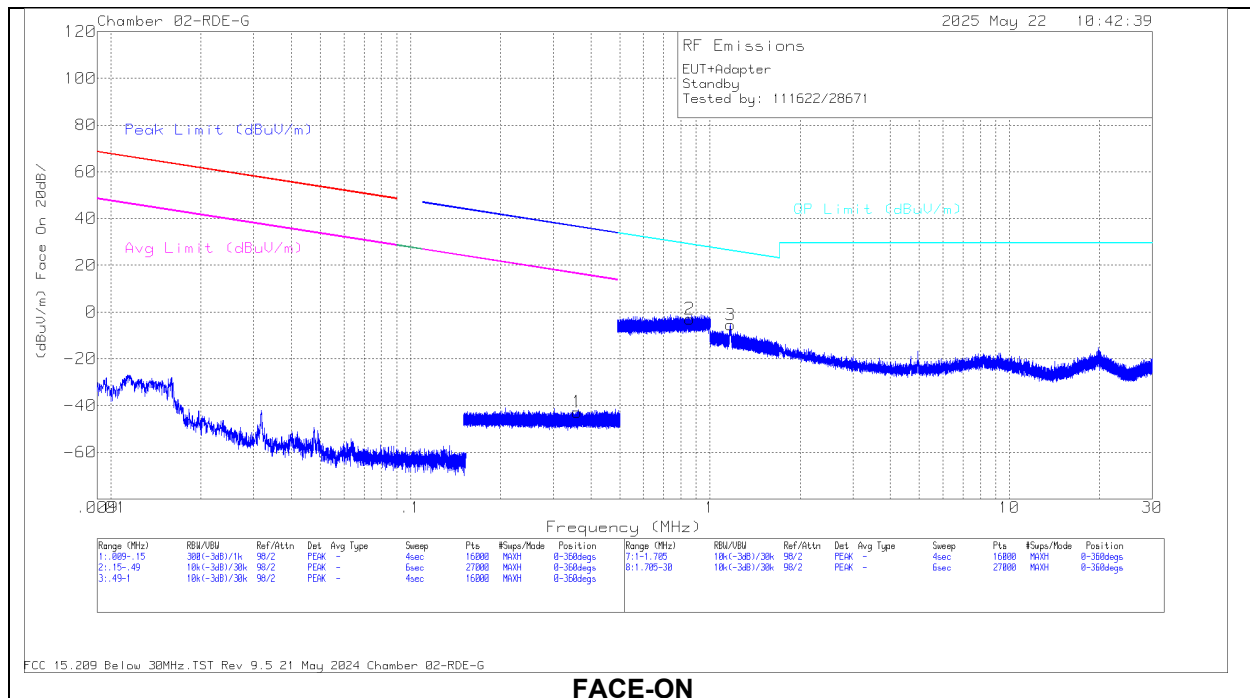
For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only. Blue color trace on plots: Parallel orientation (face on). 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. STANDBY MODE**9.1.1. FCC TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)**

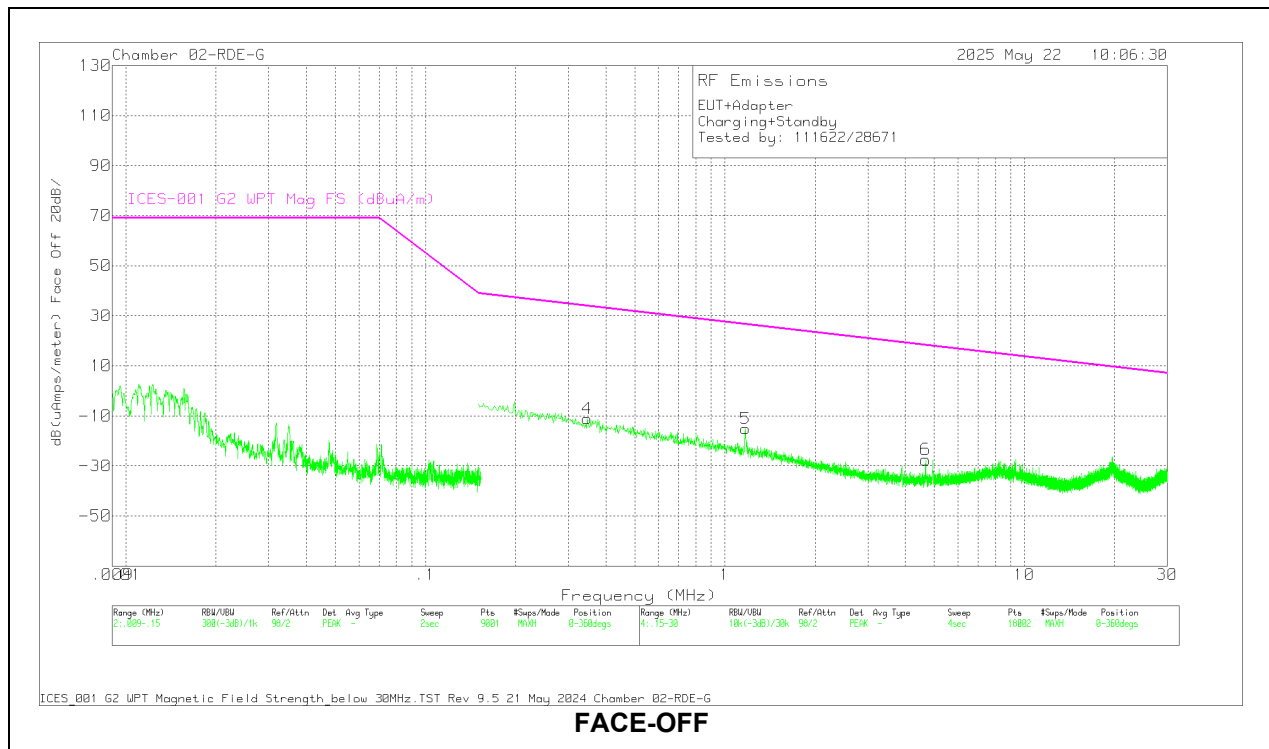
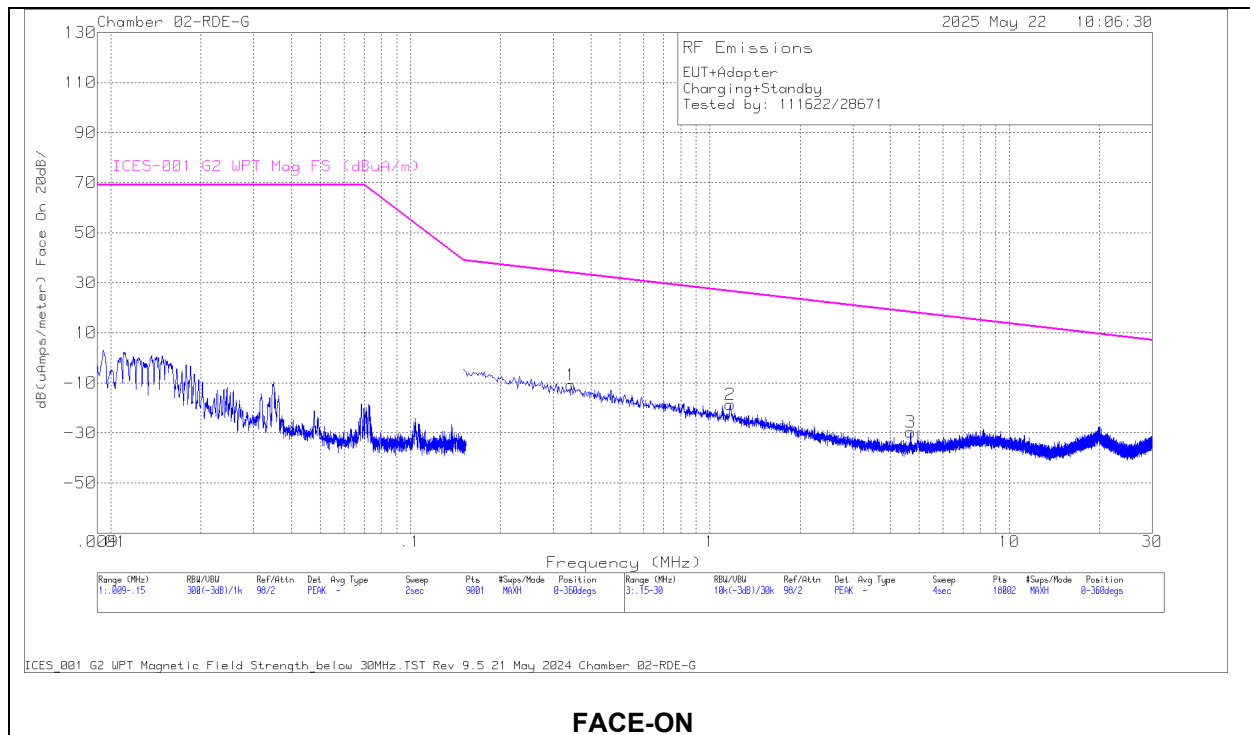
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) 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)	Antenna Polarity
1	.3605	12.97	Pk	56.2	-32	-80	-42.83	36.47	-79.3	16.47	-59.3	0-360	Face-on
4	.365	12.08	Pk	56.2	-32	-80	-43.72	36.36	-80.08	16.36	-60.08	0-360	Face-off

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) dB/m	Loop Path 30Hz-1MHz (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Polarity
2	.8558	12.39	Pk	56.5	-31.9	-40	-3.01	28.97	-31.98	0-360	Face-on
5	.8646	12.04	Pk	56.5	-31.9	-40	-3.36	28.88	-32.24	0-360	Face-off

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) dB/m	Loop Path 100kHz-30MHz (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Polarity
3	1.1715	20.68	Pk	45.8	-32	-40	-5.52	26.25	-31.77	0-360	Face-on
6	1.1719	22.26	Pk	45.8	-32	-40	-3.94	26.25	-30.19	0-360	Face-off

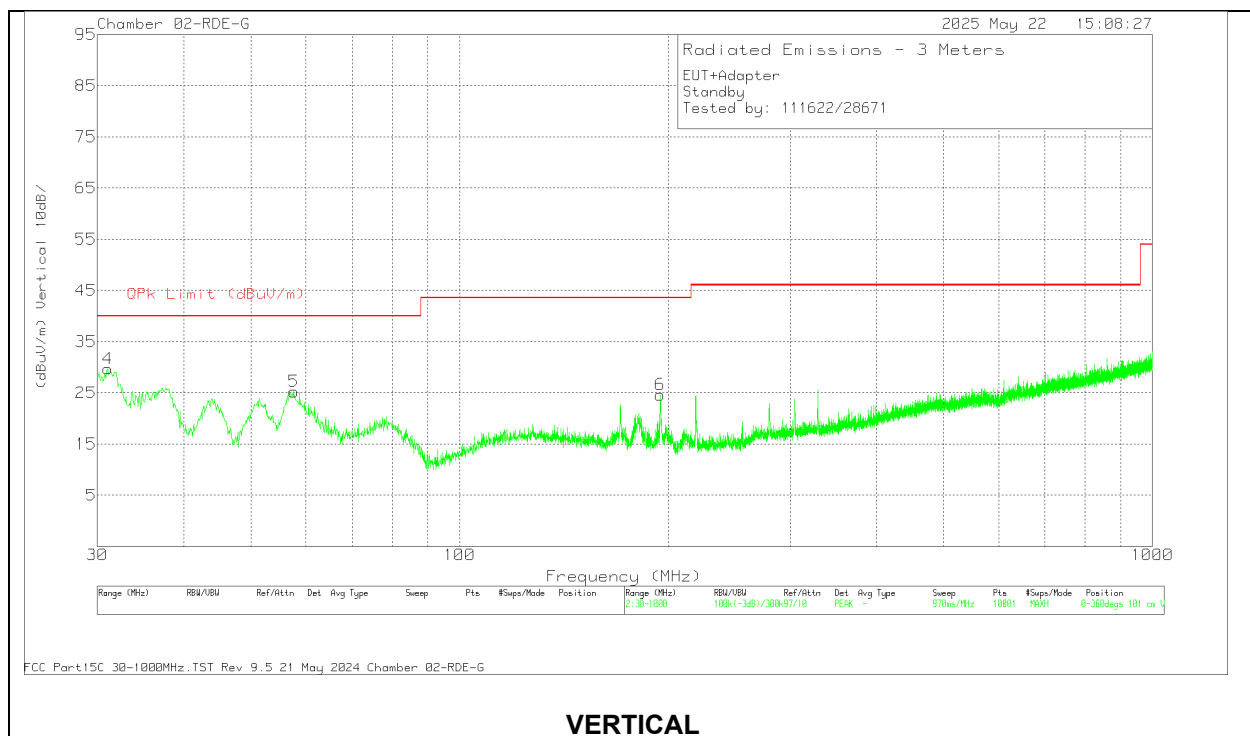
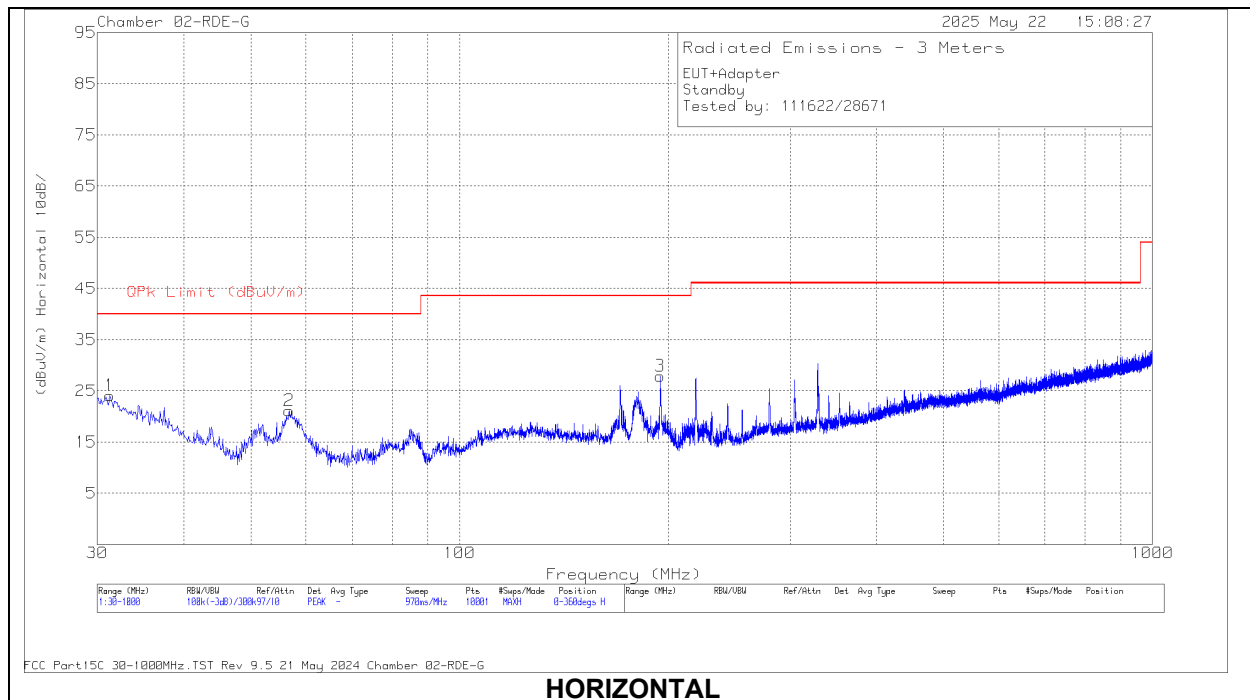
Pk - Peak detector

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

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H(ACF) dB/m	Loop Path 100kHz-30MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Antenna Polarity
1	.344	17.45	Pk	3.8	-32.1	-10.85	33.99	-44.84	0-360	Face-on
4	.3473	17.3	Pk	3.7	-32.1	-11.1	33.93	-45.03	0-360	Face-off
2	1.1697	18.97	Pk	-5.6	-32	-18.63	26.6	-45.23	0-360	Face-on
5	1.1713	22.5	Pk	-5.6	-32	-15.1	26.59	-41.69	0-360	Face-off
3	4.678	17.11	Pk	-15.1	-31.7	-29.69	18.22	-47.91	0-360	Face-on
6	4.6797	19.3	Pk	-15.1	-31.7	-27.5	18.22	-45.72	0-360	Face-off

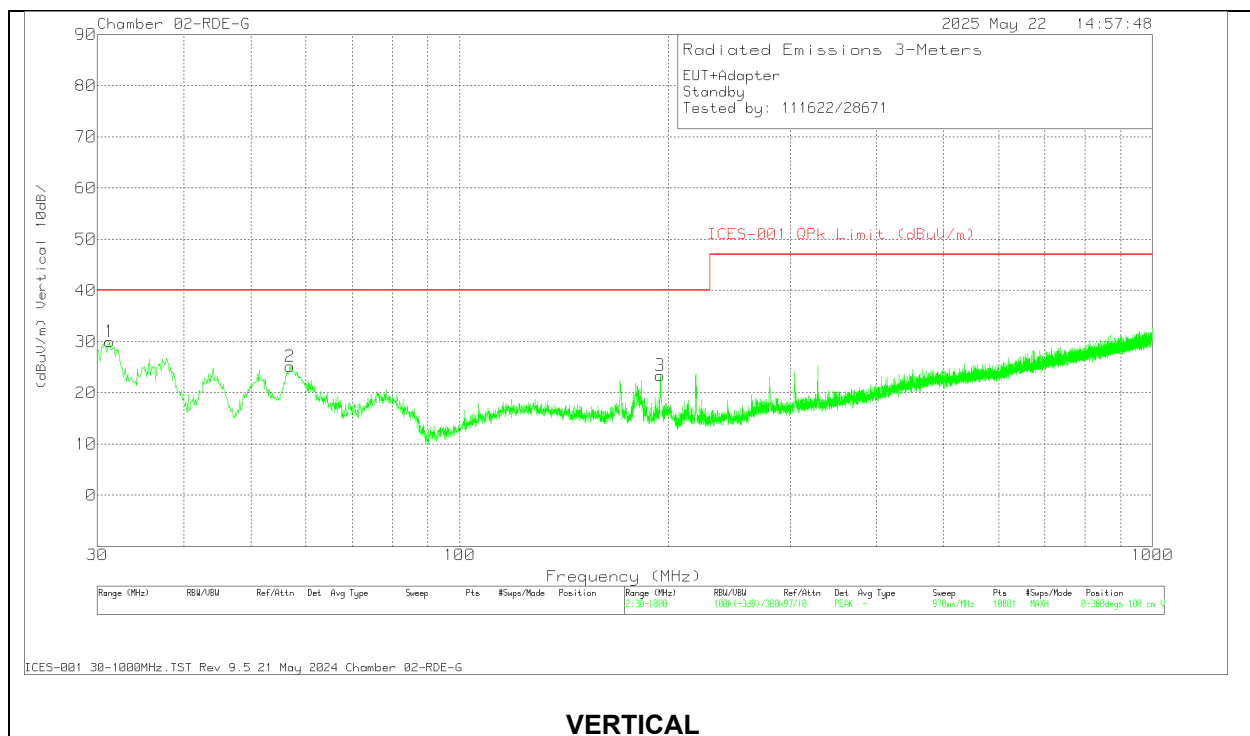
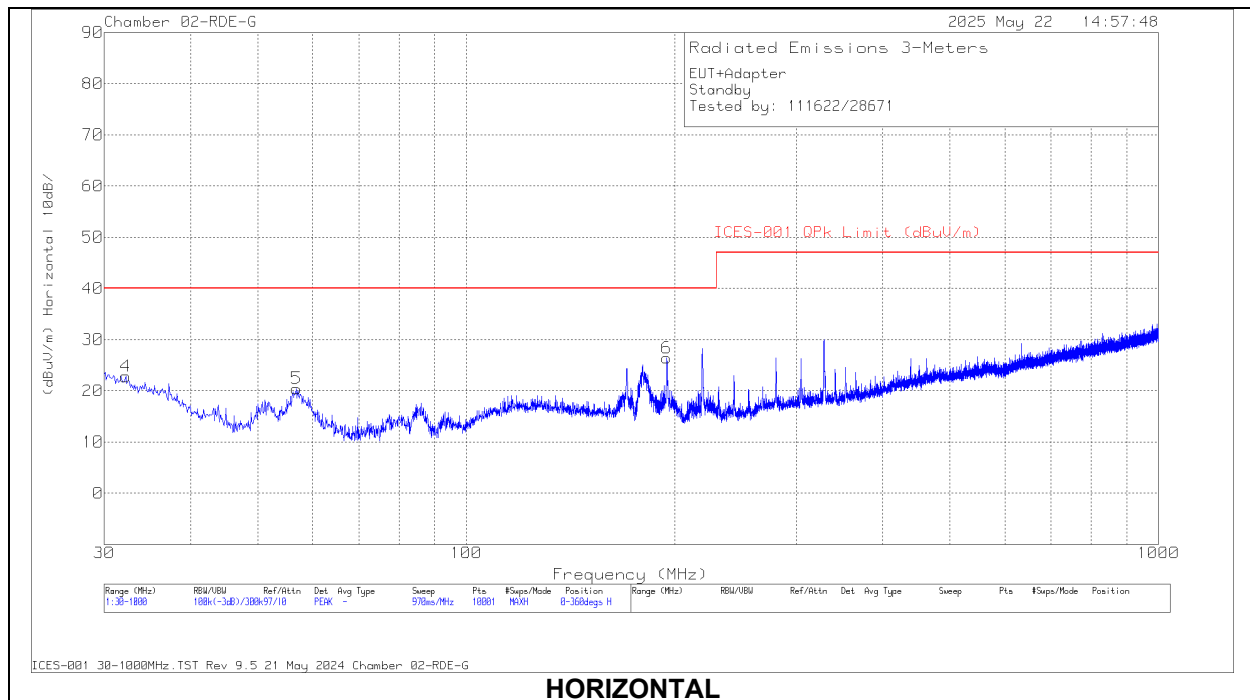
Pk - Peak detector

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

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	Hybrid Path 30MHz-1000MHz (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
4	31.067	34.67	Pk	26	-31	29.67	40	-10.33	0-360	101	V
1	31.261	29.27	Pk	25.8	-31	24.07	40	-15.93	0-360	299	H
2	56.772	38.52	Pk	13.2	-30.6	21.12	40	-18.88	0-360	399	H
5	57.645	42.64	Pk	13.2	-30.6	25.24	40	-14.76	0-360	101	V
3	194.9	39.59	Pk	17.6	-29.3	27.89	43.52	-15.63	0-360	199	H
6	194.9	36.31	Pk	17.6	-29.3	24.61	43.52	-18.91	0-360	199	V

Pk - Peak detector

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

DATA

Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	173997 ACF (dB/m)	Hybrid Path 30MHz-1000MHz (dB)	Corrected Reading (dBUV/m)	ICES-001 QPk Limit (dBUV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
1	31.261	35.2	Pk	25.8	-31	30	40	-10	0-360	100	V
4	32.231	28.51	Pk	25.3	-31	22.81	40	-17.19	0-360	199	H
5	56.869	37.94	Pk	13.2	-30.7	20.44	40	-19.56	0-360	400	H
2	56.966	42.69	Pk	13.2	-30.7	25.19	40	-14.81	0-360	100	V
6	194.9	38.12	Pk	17.6	-29.3	26.42	40	-13.58	0-360	101	H
3	194.9	35.06	Pk	17.6	-29.3	23.36	40	-16.64	0-360	199	V

Pk - Peak detector

Note: The original data collected based on the old limit at 3m distance

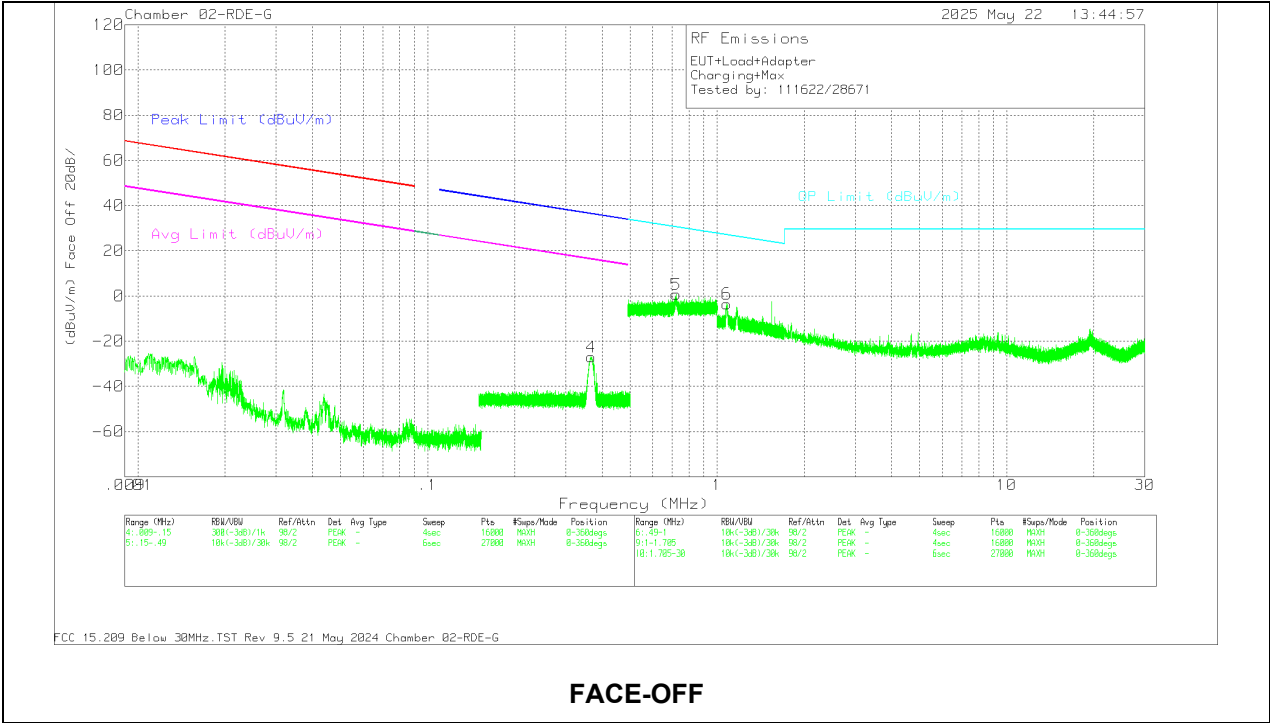
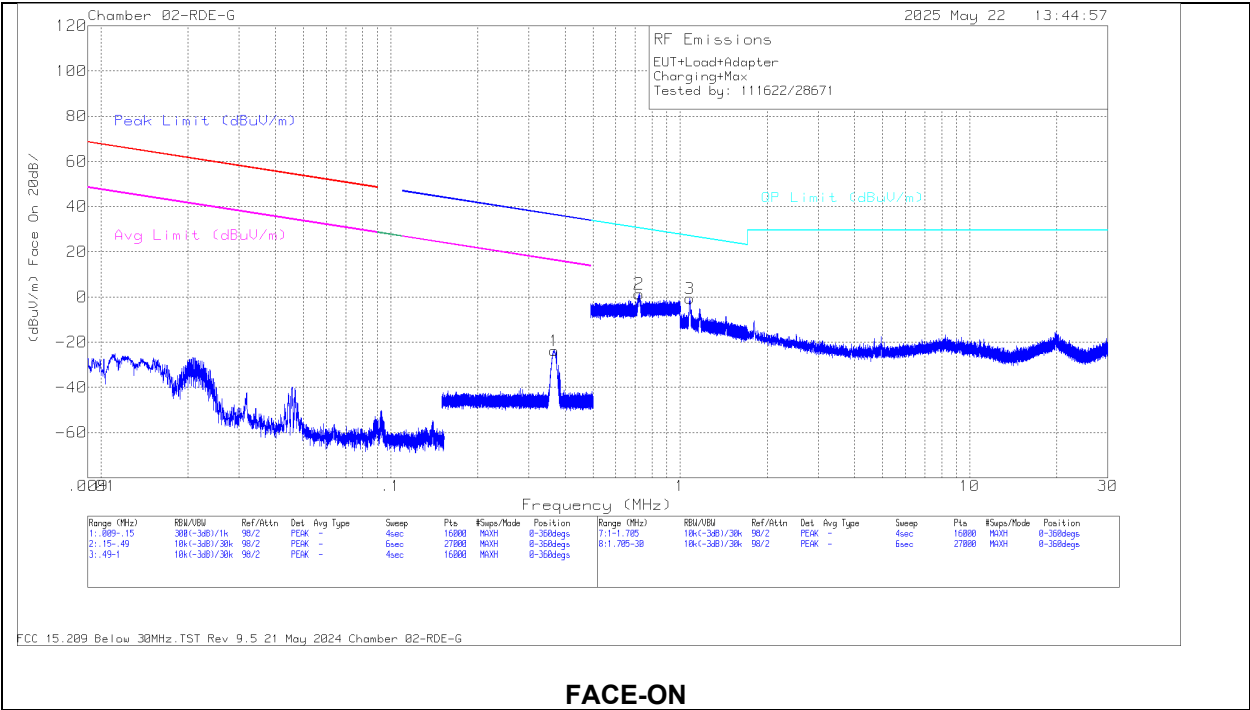
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	173997 ACF (dB/m)	Hybrid Path 30MHz-1000MHz (dB)	Dist Corr 10m (dB)	Corrected Reading (dBUV/m)	RSS-216 QPk Limit (dBUV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
1	31.261	35.2	Pk	25.8	-31.0	-10.46	19.54	30	-10.46	0-360	100	V
4	32.231	28.51	Pk	25.3	-31.0	-10.46	12.35	30	-17.65	0-360	199	H
5	56.869	37.94	Pk	13.2	-30.7	-10.46	9.98	30	-20.02	0-360	400	H
2	56.966	42.69	Pk	13.2	-30.7	-10.46	14.73	30	-15.27	0-360	100	V
6	194.9	38.12	Pk	17.6	-29.3	-10.46	15.56	30	-14.44	0-360	101	H
3	194.9	35.06	Pk	17.6	-29.3	-10.46	12.9	30	-17.1	0-360	199	V

Pk - Peak detector

Note: The original data collected at 3m converted at 10m distance.

OPERATING MODE

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



DATA

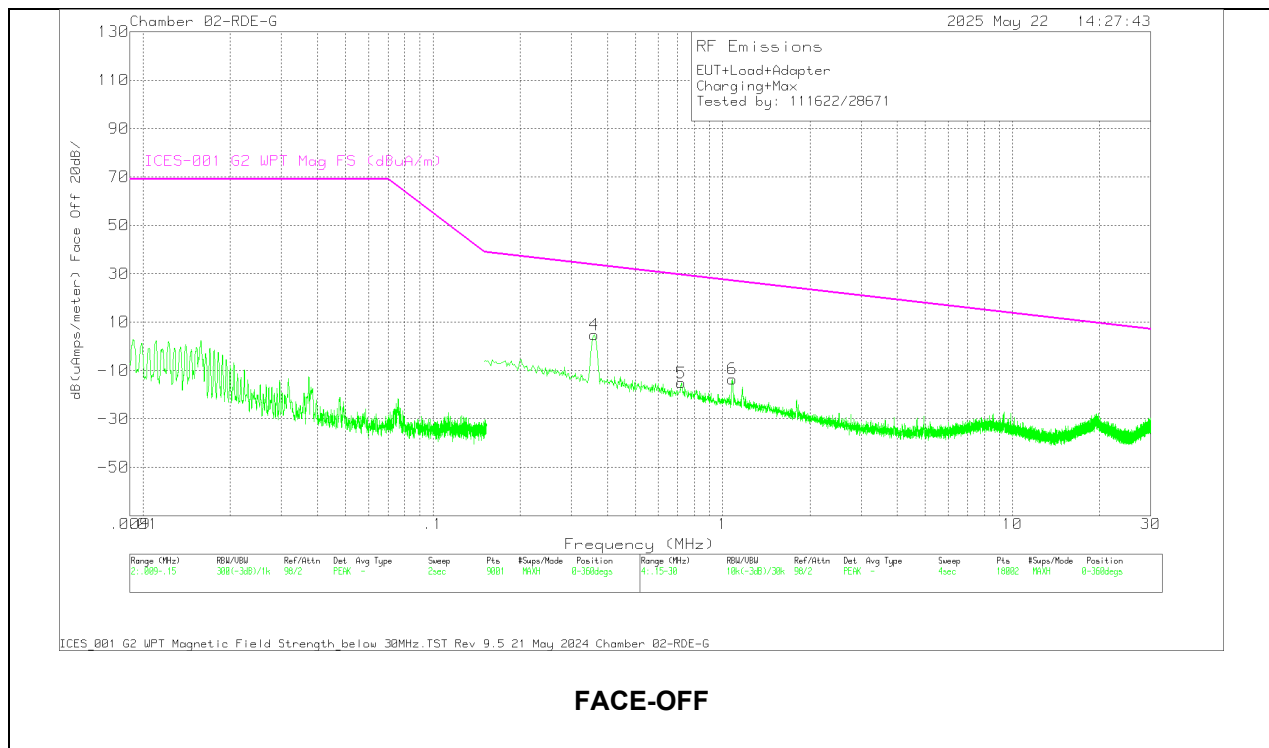
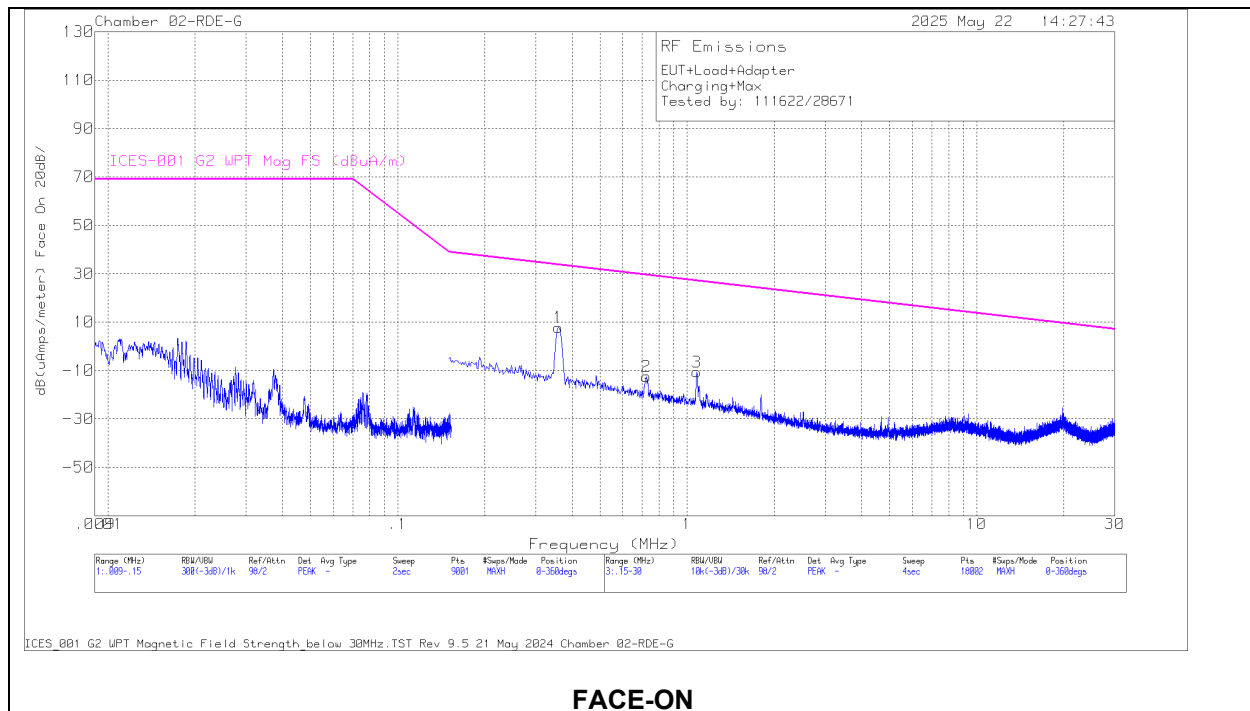
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) dB/m	Loop Path 30Hz-1MHz (dB)	Dist Corr 300m (dB)	Corrected Reading (dBuV/m)	Azimuth (Degs)	Antenna Polarity
4	.3599	28.56	Qp	56.2	-32	-80	-27.24	243	Face-off
1	.3602	31.92	Qp	56.2	-32	-80	-23.88	350	Face-on

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) dB/m	Loop Path 30Hz-1MHz (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Polarity
2	.7212	16.86	Pk	56.4	-31.9	-40	1.36	30.45	-29.09	0-360	Face-on
5	.7212	16.21	Pk	56.4	-31.9	-40	.71	30.45	-29.74	0-360	Face-off

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) dB/m	Loop Path 100kHz-30MHz (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Polarity
6	1.0789	22.21	Pk	46.3	-32	-40	-3.49	26.96	-30.45	0-360	Face-off
3	1.08	25.07	Pk	46.3	-32	-40	-.63	26.96	-27.59	0-360	Face-on

Pk - Peak detector

Qp - Quasi-Peak detector

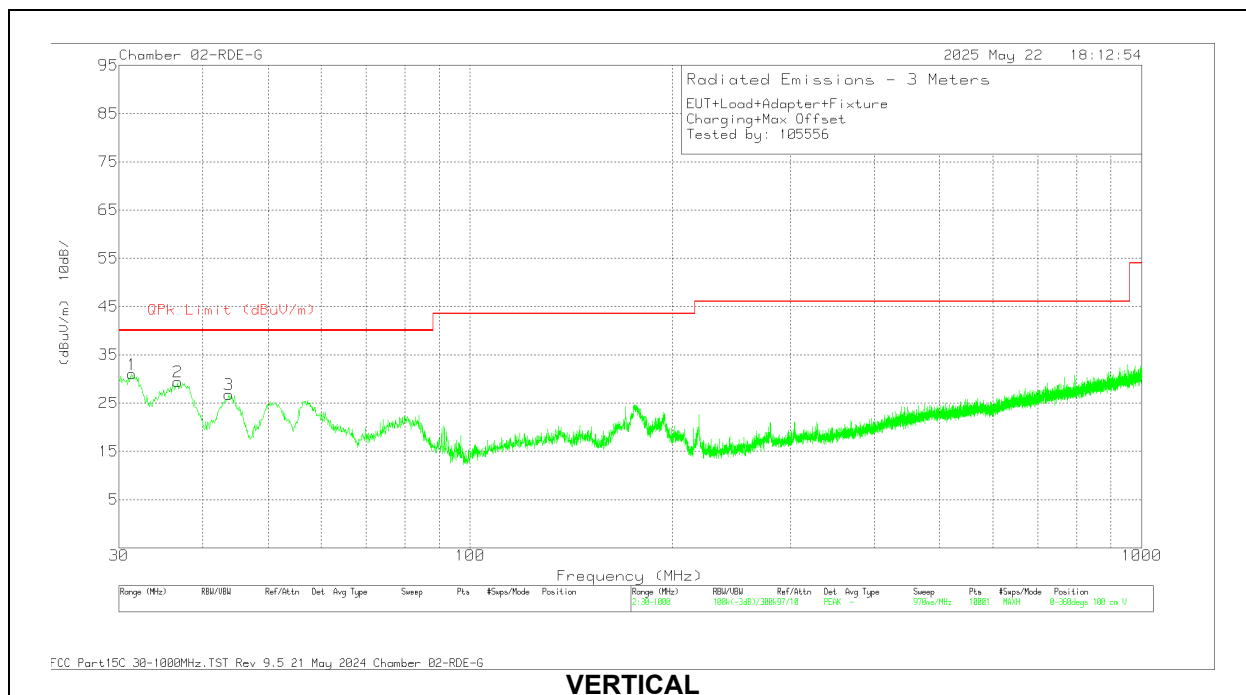
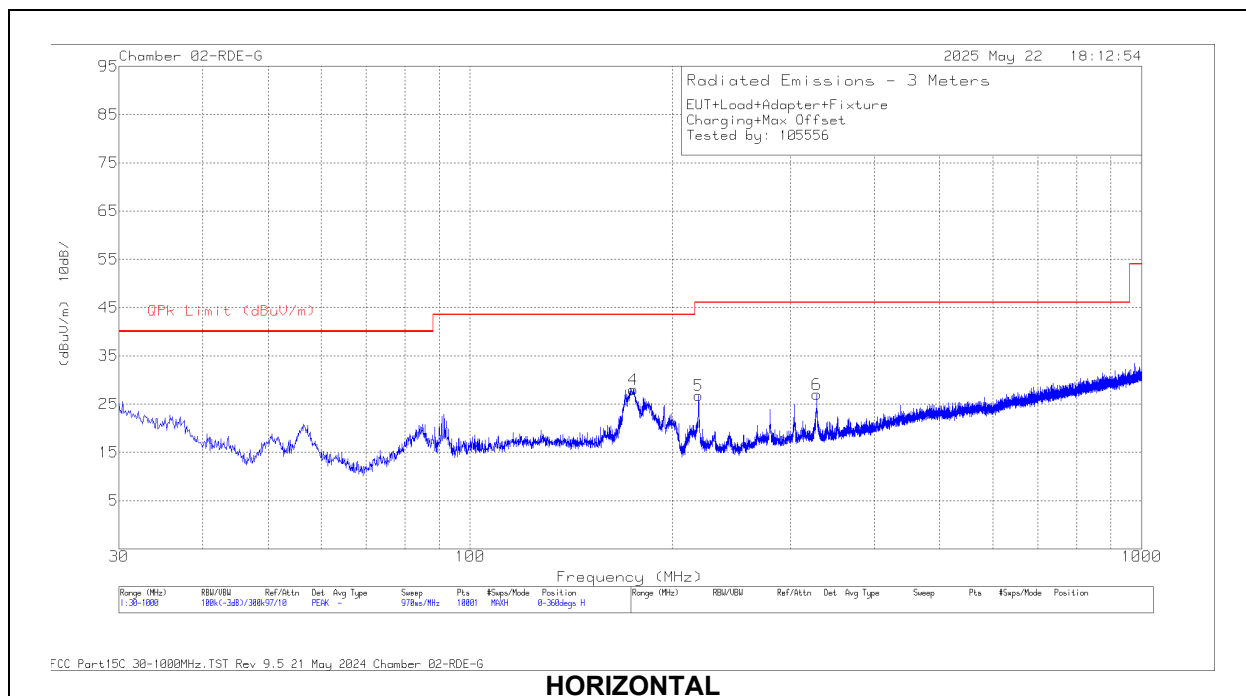
9.1.6. ISED TX FUNDAMENTAL & SPURIOUS EMISSIONS (9 kHz - 30 MHz)

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna H(ACF) dB/m	Loop Path 100kHz-30MHz (dB)	Corrected Reading dB(uAmps/meter)	RSS-216 Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Antenna Polarity
1	.3598	36.67	Qp	3.4	-32.1	7.97	33.72	-25.75	22	Face-on
4	.3601	33.87	Qp	3.4	-32.1	5.17	33.71	-28.54	79	Face-off
5	.7204	19.05	Pk	-2.2	-32	-15.15	29.52	-44.67	0-360	Face-off
2	.7237	21.86	Pk	-2.3	-32	-12.44	29.5	-41.94	0-360	Face-on
3	1.0801	26.51	Pk	-5.1	-32	-10.59	27.08	-37.67	0-360	Face-on
6	1.0801	23.63	Pk	-5.1	-32	-13.47	27.08	-40.55	0-360	Face-off

PK- Peak detector

Qp - Quasi-Peak detector

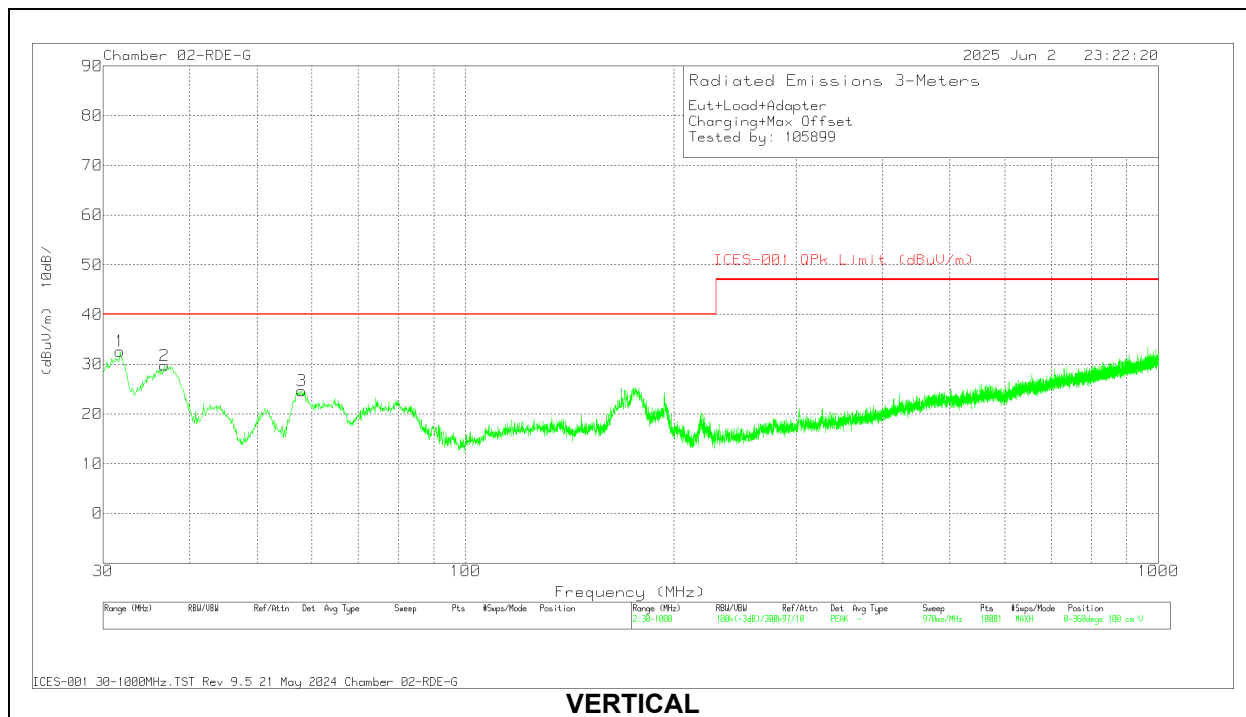
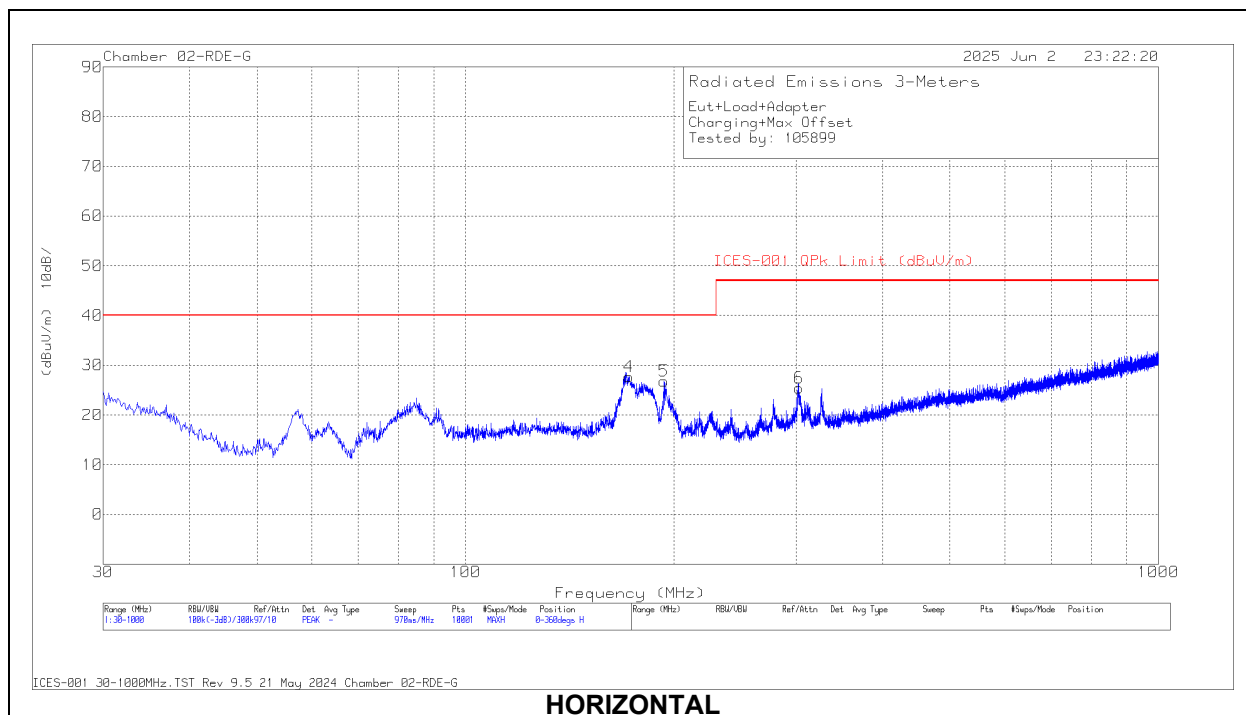
9.1.7. FCC TX SPURIOUS EMISSION (30 - 1000 MHz)

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	Hybrid Path 30MHz-1000MHz (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
6	* 328.148	34.73	Qp	19.9	-28.4	26.23	46.02	-19.79	308	111	H
1	31.3278	31.51	Qp	25.8	-31	26.31	40	-13.69	337	107	V
2	36.7108	32.8	Qp	22.1	-31	23.9	40	-16.1	293	101	V
3	43.9108	35.44	Qp	16.9	-30.8	21.54	40	-18.46	189	104	V
4	175.168	36.98	Qp	17.3	-29.5	24.78	43.52	-18.74	140	134	H
5	218.913	37.25	Qp	16.5	-29.2	24.55	46.02	-21.47	111	188	H

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

Qp - Quasi-Peak detector

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

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	CBL (dB)	Corrected Reading (dBuV/m)	ICES-001 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
1	31.3176	32.49	Qp	25.8	-31.1	27.19	40	-12.81	7	105	V
2	37.446	34.51	Qp	21.5	-31	25.01	40	-14.99	44	101	V
3	57.225	38.83	Qp	13.2	-30.9	21.13	40	-18.87	43	102	V
4	169.25	37.46	Qp	17.7	-29.6	25.56	40	-14.44	138	103	H
5	193.465	36.11	Qp	17.5	-29.3	24.31	40	-15.69	126	103	H
6	302.716	30.67	Qp	19.4	-28.3	21.77	47	-25.23	327	105	H

Qp - Quasi-Peak detector

Note: The original data collected based on the old limit at 3m distance.

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	173997 ACF (dB/m)	Hybrid Path 30MHz-1000MHz (dB)	Dist Corr 10m (dB)	Corrected Reading (dBuV/m)	RSS-216 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Antenna Polarity
1	31.3176	32.49	Qp	25.8	-31.1	-10.46	16.73	30	-13.27	7	105	V
2	37.446	34.51	Qp	21.5	-31	-10.46	14.55	30	-15.45	44	101	V
3	57.225	38.83	Qp	13.2	-30.9	-10.46	10.67	30	-19.33	43	102	V
4	169.25	37.46	Qp	17.7	-29.6	-10.46	15.1	30	-14.9	138	103	H
5	193.465	36.11	Qp	17.5	-29.3	-10.46	13.85	30	-16.15	126	103	H
6	302.716	30.67	Qp	19.4	-28.3	-10.46	11.31	37	-25.69	327	105	H

Qp - Quasi-Peak detector

Note: The original data collected at 3m converted at 10m distance.

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:	06/1/2025
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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)						
Outdoor	+50°C	360.00003	20.560	360.00027	20.410	360.00047	20.240	360.00081	19.930	20.560	-13.230	7.330	33.7	Yes	Pass
	+20°C (Normal)	360.00250	21.010	359.99953	20.980	359.99955	20.970	359.99957	20.960	21.010	-13.230	7.780		Yes	Pass
	-20°C	359.99936	20.600	359.99898	20.900	359.99869	21.000	359.99847	19.410	21.000	-13.230	7.770		Yes	Pass
Outdoor / Indoor	+20°C	3.23Vdc (85%)	360.00915	21.450	359.99978	21.580	360.00913	21.480	359.99974	21.460	21.580	-13.230	8.350	yes	Pass
		4.37Vdc (115%)	359.99959	20.890	359.99960	20.920	359.999608	20.810	359.99961	20.850	20.920	-13.230	7.690	Yes	Pass

*Note: Field strength at 3m at nominal temperature of 20°C was 7.78dBuA/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.

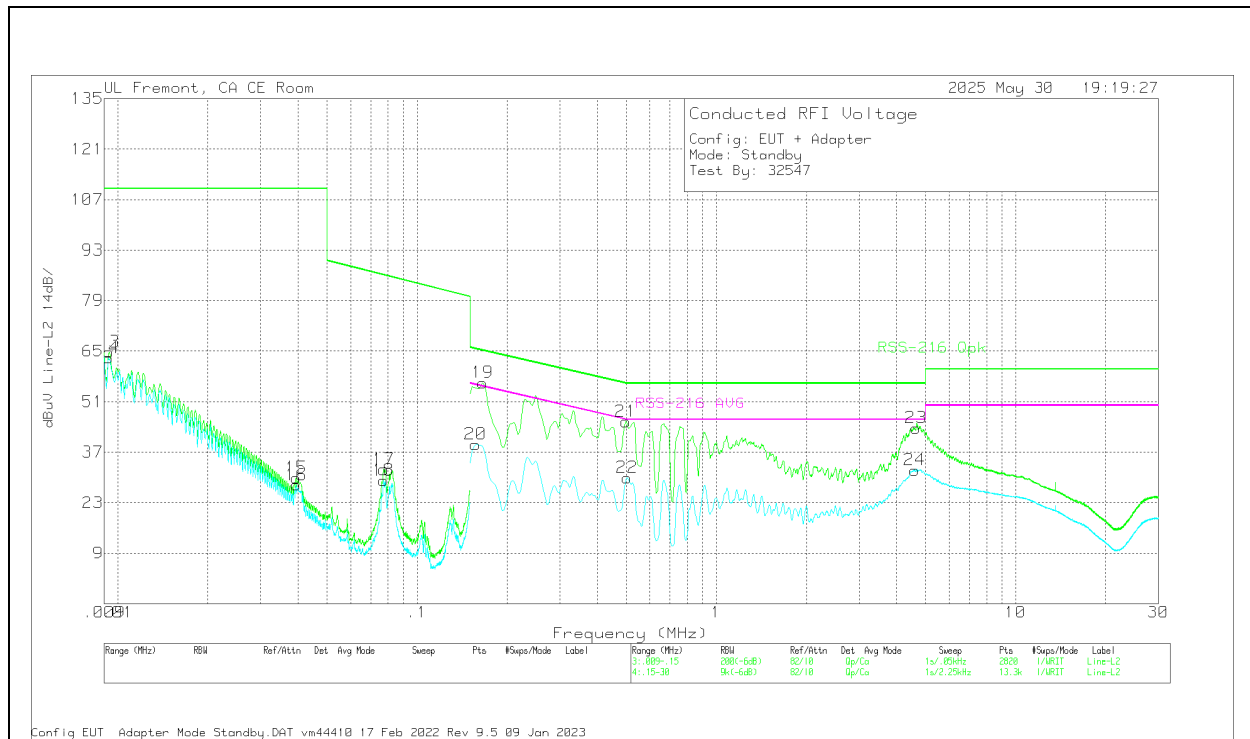
11.1. STANDBY MODE**LINE 1 RESULTS****DATA**

Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 1 C3_C1_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
2	.0093	27.65	Ca	4.9	14.1	15	61.65	-	-
4	.0398	6.66	Ca	.5	10.2	10.3	27.66	-	-
6	.0781	9.28	Ca	.2	9.6	9.6	28.68	-	-
1	.0094	29.57	Qp	4.9	13.9	14.8	63.17	110	-46.83
3	.0393	8.96	Qp	.6	10.3	10.3	30.16	110	-79.84
5	.0781	12.34	Qp	.2	9.6	9.6	31.74	85.94	-54.2

Range 2: Line-L1 .15 - 30MHz

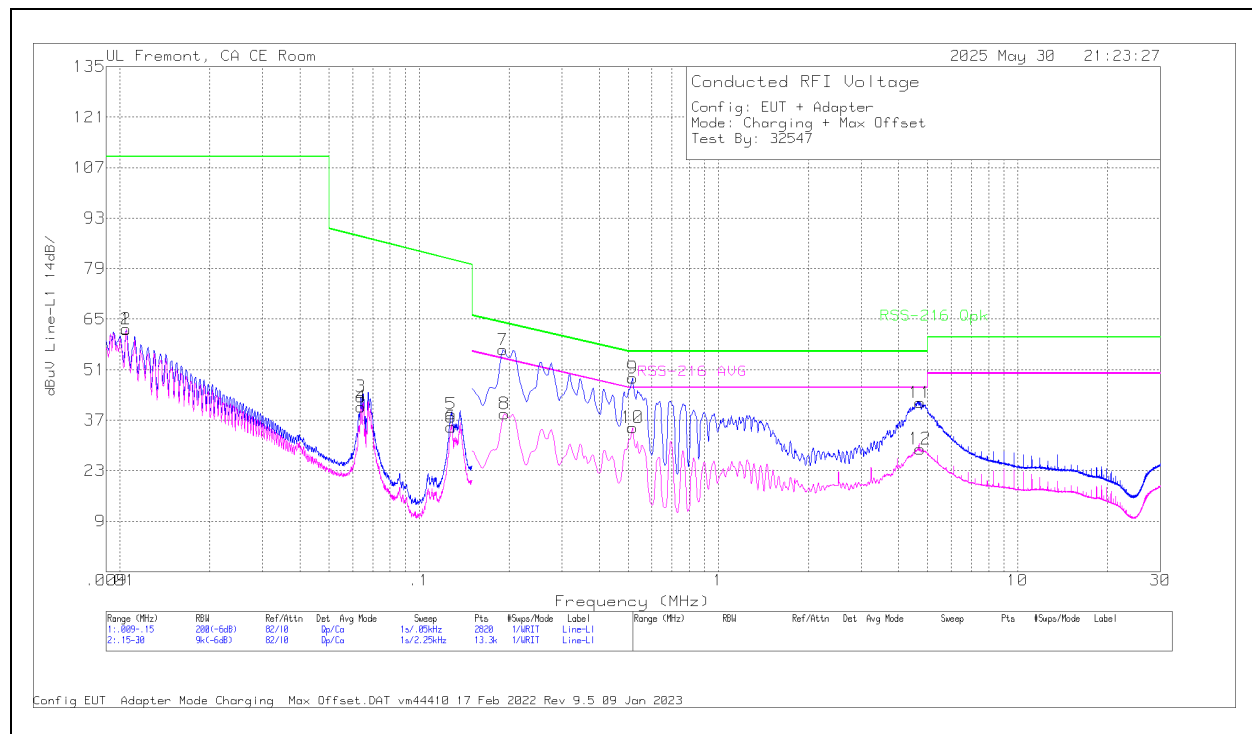
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 1 C3_C1_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
8	.1568	20.38	Ca	.1	9.4	9.5	39.38	-	-	55.63	-16.25
10	.5055	10.69	Ca	0	9.3	9.3	29.29	-	-	46	-16.71
12	4.6703	11.43	Ca	0	9.4	9.4	30.23	-	-	46	-15.77
7	.1658	36.53	Qp	.1	9.4	9.5	55.53	65.17	-9.64	-	-
9	.4988	26.21	Qp	0	9.3	9.3	44.81	56.02	-11.21	-	-
11	4.6703	24.46	Qp	0	9.4	9.4	43.26	56	-12.74	-	-

LINE 2 RESULTS**DATA**

Range 3: Line-L2 .15 - 30MHz									
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 2 C3_C2_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
14	.0093	29.24	Ca	4.9	14	15	63.14	-	-
16	.0394	6.93	Ca	.5	10.2	10.3	27.93	-	-
18	.0773	9.72	Ca	.2	9.6	9.7	29.22	-	-
13	.0094	31.27	Qp	4.9	13.8	14.8	64.77	110	-45.23
15	.0394	8.87	Qp	.5	10.2	10.3	29.87	110	-80.13
17	.0774	12.73	Qp	.2	9.6	9.7	32.23	86.02	-53.79

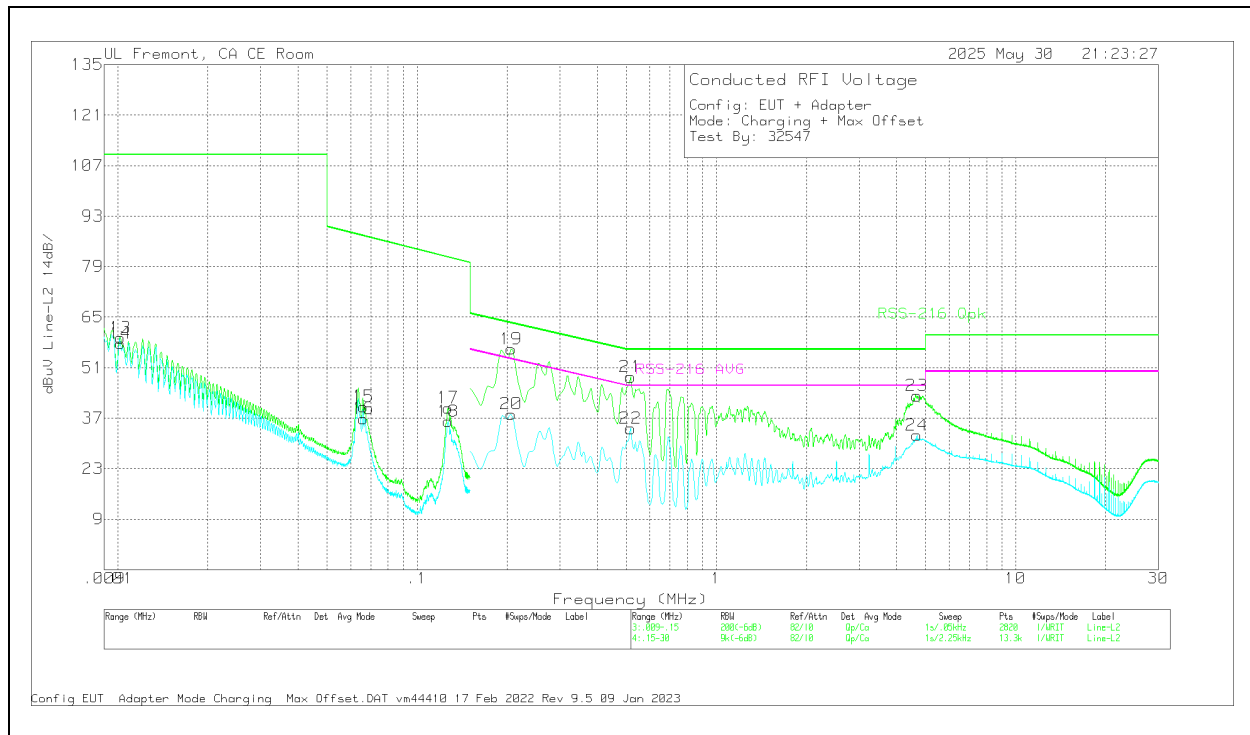
Range 4: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 2 C3_C2_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	RSS-216 AVG (dBuV)	Margin (dB)
20	.1568	20.17	Ca	.1	9.4	9.5	39.17	-	-	55.63	-16.46
22	.5033	11.34	Ca	0	9.3	9.3	29.94	-	-	46	-16.06
24	4.605	13.23	Ca	0	9.4	9.4	32.03	-	-	46	-13.97
19	.1658	37.25	Qp	.1	9.4	9.5	56.25	65.17	-8.92	-	-
21	.4988	26.88	Qp	0	9.3	9.3	45.48	56.02	-10.54	-	-
23	4.65	24.91	Qp	0	9.4	9.4	43.71	56	-12.29	-	-

Qp - Quasi-Peak detector
 Ca - CISPR average detection

11.2. OPERATING MODE**LINE 1 RESULTS****DATA**

Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 1 C3_C1_Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)	
2	.0105	34.06	Ca	4.4	11.4	12.4	62.26	-	-	
4	.064	20.85	Ca	.3	9.8	9.8	40.75	-	-	
6	.1279	16.1	Ca	.1	9.4	9.5	35.1	-	-	
1	.0105	34.01	Qp	4.4	11.4	12.4	62.21	110	-47.79	
3	.0639	23.6	Qp	.3	9.8	9.8	43.5	87.76	-44.26	
5	.1279	19.73	Qp	.1	9.4	9.5	38.73	81.45	-42.72	

Range 2: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (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)
8	.1928	19.89	Ca	.1	9.4	9.4	38.79	-	-	53.92	-15.13
10	.5168	16.35	Ca	0	9.3	9.3	34.95	-	-	46	-11.05
12	4.7243	10.22	Ca	0	9.4	9.4	29.02	-	-	46	-16.98
7	.1905	37.61	Qp	.1	9.4	9.4	56.51	64.01	-7.5	-	-
9	.5168	30.09	Qp	0	9.3	9.3	48.69	56	-7.31	-	-
11	4.7243	23.07	Qp	0	9.4	9.4	41.87	56	-14.13	-	-

LINE 2 RESULTS**DATA**

Range 3: Line-L2 .15 - 30MHz									
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Line 2 C3_C2 Limiter no Pad_UL (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	RSS-216 Qpk (dBuV)	Margin (dB)
14	.0102	28.74	Ca	4.6	11.9	12.5	57.74	-	-
16	.0662	17.19	Ca	.2	9.7	9.8	36.89	-	-
18	.127	17.1	Ca	.1	9.4	9.5	36.1	-	-
13	.0102	30.27	Qp	4.6	11.9	12.5	59.27	110	-50.73
15	.0662	20.46	Qp	.2	9.7	9.8	40.16	87.45	-47.29
17	.127	20.84	Qp	.1	9.4	9.5	39.84	81.52	-41.68

Range 4: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (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	.2063	19.32	Ca	0	9.4	9.4	38.12	-	-	53.35	-15.23
22	.5168	15.54	Ca	0	9.3	9.3	34.14	-	-	46	-11.86
24	4.6793	13.46	Ca	0	9.4	9.4	32.26	-	-	46	-13.74
19	.2063	37.35	Qp	0	9.4	9.4	56.15	63.35	-7.2	-	-
21	.5168	29.84	Qp	0	9.3	9.3	48.44	56	-7.56	-	-
23	4.6793	24.4	Qp	0	9.4	9.4	43.2	56	-12.8	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 15496282-EP1V1 for setup photos.

APPENDIX A – SPOT CHECK EVALUATION

1. SPOT CHECK EVALUATION

1.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3260, A3516, A3517 and A3518.

These models have the same PCB layout, design, common components, antennas, antenna locations and housing cases, except for the cellular bands that are enabled/disabled by software as shown below.

Model	FCC ID	IC ID	Feature Difference	Sim Support	Reference Model
A3260	BCG-E8948A	579C-E8948A	_No B11/21	eSIM	-
A3516	BCG-E8954A	579C-E8954A	_Added B11/21 _No B14/29/71		A3260
A3517	BCG-E8955A	579C-E8955A	_No B11/21/14/29/71		
A3518	BCG-E8956A	579C-E8956A	_No B11/21/14/29/71/53 _No MSS		

The spot check plan, approved by the FCC inquiry, allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB} & , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB} & , \text{ for } M_{dB} > 60 \text{ dB} \end{cases} \quad (4)$$

Where: d_{dB} deviation from Reference data, V_{dB} variant spot check level, and R_{dB} measurement level

1.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3516

A3516 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3260	Sub Model: A3516	Delta (dB or MHz)	Margin	Remarks
				FCC ID : BCG-E8948A IC : 579C-E8948A	FCC ID: BCG-E8954A IC : 579C-E8954A			
DCD / WPT (FCC)	Operating	E-field (300m distance) FCC (dB μ V/m)	0.36	-23.88	-22.52	1.36	-58.85	Note 2
		Out-Of-Band Emissions (dBuV/m)	30 - 1000	26.31	26.80	0.49	-13.20	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596.

The value for the variant model is the maximized signal level across all three device orientations.

A3516 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3260	Sub Model: A3516	Delta (dB or MHz)	Margin	Remarks
				FCC ID : BCG-E8948A IC : 579C-E8948A	FCC ID: BCG-E8954A IC : 579C-E8954A			
DCD / WPT (IC)	Operating	H-field (3m distance) IC (dB μ A/m)	0.36	7.97	7.06	-0.91	-26.64	Note 1
		Out-Of-Band Emissions (dBuV/m)	30 - 1000	27.19	26.92	-0.27	-13.08	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

1.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3517

A3517 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3260	Sub Model: A3517	Delta (dB or MHz)	Margin	Remarks
				FCC ID : BCG-E8948A IC : 579C-E8948A	FCC ID: BCG-E8955A IC : 579C-E8955A			
DCD / WPT (FCC)	Operating	E-field (300m distance) FCC (dB μ V/m)	0.36	-23.88	-23.54	0.34	-59.87	Note 2
		Out-Of-Band Emissions (dBuV/m)	30 - 1000	26.31	27.74	1.43	-12.26	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596.

The value for the variant model is the maximized signal level across all three device orientations.

A3517 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3260	Sub Model: A3517	Delta (dB or MHz)	Margin	Remarks
				FCC ID : BCG-E8948A IC : 579C-E8948A	FCC ID: BCG-E8955A IC : 579C-E8955A			
DCD / WPT (IC)	Operating	H-field (3m distance) IC (dB μ A/m)	0.36	7.97	8.00	0.03	-25.70	Note 1
		Out-Of-Band Emissions (dBuV/m)	30 - 1000	27.19	27.24	0.05	-12.76	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

1.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3518

A3518 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3260	Sub Model: A3518	Delta (dB or MHz)	Margin	Remarks
				FCC ID : BCG-E8948A IC : 579C-E8948A	FCC ID: BCG-E8956A IC : 579C-E8956A			
DCD / WPT (FCC)	Operating	E-field (300m distance) FCC (dB μ V/m)	0.36	-23.88	-23.39	0.49	-59.72	Note 2
		Out-Of-Band Emissions (dB μ V/m)	30 - 1000	26.31	23.94	-2.37	-16.06	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596.

The value for the variant model is the maximized signal level across all three device orientations.

A3517 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3260	Sub Model: A3517	Delta (dB or MHz)	Margin	Remarks
				FCC ID : BCG-E8948A IC : 579C-E8948A	FCC ID: BCG-E8955A IC : 579C-E8955A			
DCD / WPT (IC)	Operating	H-field (3m distance) IC (dB μ A/m)	0.36	7.97	7.04	-0.93	-26.66	Note 1
		Out-Of-Band Emissions (dB μ V/m)	30 - 1000	27.19	24.57	-2.62	-15.43	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.