



TEST REPORT

Report Number. : 13941431-E1V1

Applicant : BELKIN INTERNATIONAL, INC
12045 EAST WATERFRONT DRIVE
PLAYA VISTA, CA 90094, U.S.A.

Model : WIZ015

FCC ID : K7SWIZ015

IC : 3623A-WIZ015

EUT Description : WIRELESS CHARGER

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
ISED RSS-216 ISSUE 2
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:
October 07, 2021

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	10/7/2021	Initial Issue	--

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: BELKIN INTERNATIONAL, INC.
12045 EAST WATERFRONT DRIVE
PLAYA VISTA, CA 90094 U.S.A.

EUT DESCRIPTION: WIRELESS CHARGER

MODEL NUMBER: WIZ015

BRAND: BELKIN

SERIAL NUMBER: 51V10F69B00107

SAMPLE RECEIPT DATE: SEPTEMBER 27, 2021

DATE TESTED: SEPTEMBER 28, 2021 TO OCTOBER 01, 2021

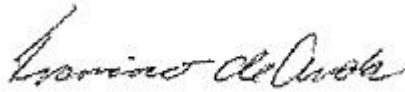
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Complies
ISED RSS-216 Issue 2, A1:9/2020	Complies
ISED RSS-GEN Issue 5 + A1 + A2	Complies

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

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

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. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

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2. TEST METHODOLOGY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

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

ANSI C63.10-2013

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 414788 D01 Radiated Test Site v01r01

RSS-GEN Issue 5 + A1 + A2

RSS-216 Issue 2 January 2016, amendment 1 (September 2020)

3. FACILITIES AND ACCREDITATION

UL LLC 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	208313
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA	US0104	22541	208313
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA	US0104	2324B	208313

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. METROLOGICAL TRACEABILITY

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

4.2. DECISION RULES

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	U _{Lab}
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
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a Wireless Charger with one charging coil that is capable of charging 1 Apple Watch at a time. The charging frequencies are 326.5 kHz and 1.778MHz, and the maximum power consumption is 5W in charging status.

5.2. MAXIMUM E-FIELD AND H-FIELD STRENGTH

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

Fundamental Frequency (KHz)	Mode	E field (300m distance) FCC (dBuV/m)	H field (3m distance) IC (dBuA/m)
326.5	Standby (Config 1)	-18.21	9.79
326.5	Operating (Config 2)	-27.72	.2
1778	Operating (Config 3)	7.54	-3.61

5.3. SOFTWARE AND FIRMWARE

The firmware version installed in the EUT during testing was V1.96

5.4. WORST-CASE CONFIGURATION

EUT is a dual frequency magnetic desktop charger. For all tests, the EUT was connected to an AC/DC power adapter. The EUT's charging pad can be positioned in two orthogonal orientations X (flatbed) and Y (tilt). The inner base of the EUT can be elevated as an option. Worst case orientation of the client devices have been investigated. The worst orientation is as follows:

- 1) Standby mode: tilt in the upright position with the inner base elevated.
- 2) Operating mode: flatbed position in charging mode with the inner base elevated. Client device is in landscape with the digital crown/home button is on top.

All testing is based on direct contact with no shifts in position due to the embedded magnet in the charger pad.

For the entire radiated emissions test, the EUT was tested in desktop position in the following configurations. While charging, client devices were between 20% to 50% state of charge.

Config	Mode	Descriptions
1	Tilt orientation: Standby mode @326.5kHz.	EUT stand alone, powered by AC/DC adapter.
2	Flatbed orientation: Operating @326.5kHz.	Direct contact during charging between the EUT & WPT Client (Legacy Apple Watch), and the EUT is powered by AC/DC adapter.
3	Flatbed orientation: Operating @1.778MHz.	Direct contact during charging between the EUT & WPT Client (New Apple Watch), and the EUT is powered by AC/DC adapter.

6. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	29637	05/24/2022	05/24/2021
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	29640	05/24/2022	05/24/2021
Antenna, Broadband Hybrid, 30MHz to 2000MHz w/4dB	Sunol Sciences Crop.	JB3	202301	10/27/2021	10/27/2020
Amplifier, 10kHz to 1GHz, 32dB	Sonoma Instrument	310	175953	01/21/2022	01/21/2021
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	PRE0179367	02/21/2022	02/21/2021

AC Line Conducted					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
LISN	Fischer Custom Communications, Inc	FCC-LISN-50/250-25-2-01-480V	PRE0186447	01/20/2022	01/20/2021
EMI TEST RECEIVER	Rohde & Schwarz	ESR	T1436	02/19/2022	02/19/2021
Transient Limiter	TE	TBFL1	207996	06/01/2022	06/01/2021
UL AUTOMATION SOFTWARE					
Radiated Software	UL	UL EMC	Rev 9.5, Apr 30, 2020 / Oct., 20 2019		
AC Line Conducted Software	UL	UL EMC	Rev 9.5, 07 Jul 2020		

7. OCCUPIED BANDWIDTH

TEST PROCEDURE

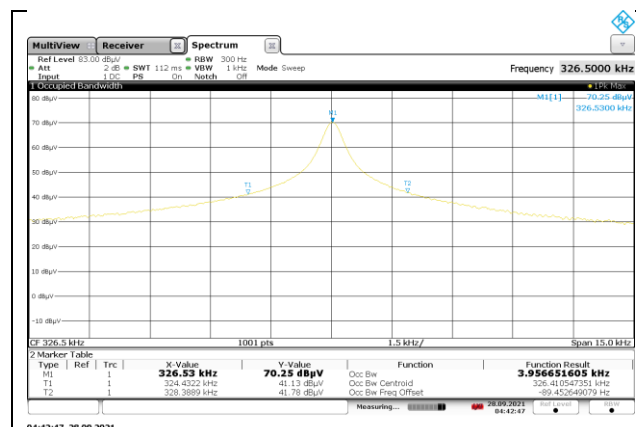
The transmitter output is connected to the spectrum analyzer. The RBW is set to 300Hz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

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.

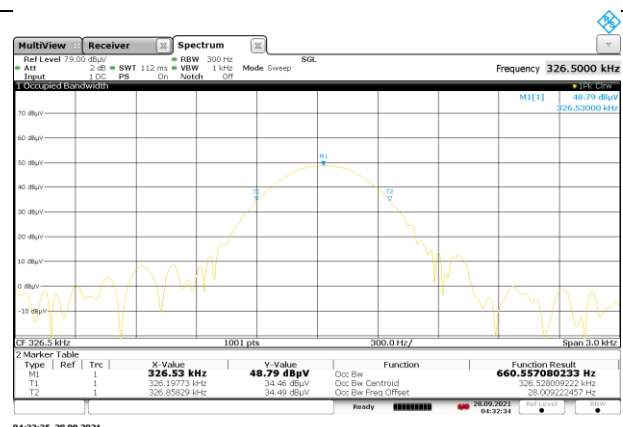
RESULTS

Test Engineer:	10629 RL
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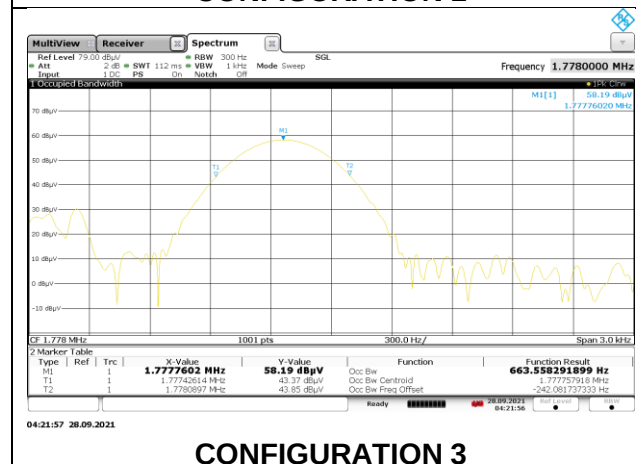
Configuration	Frequency (kHz)	99% Bandwidth (Hz)
1	326.5	3956.6516
2	326.5	660.5571
3	1778	663.5583



CONFIGURATION 1



CONFIGURATION 2



CONFIGURATION 3

8. RADIATED EMISSION TEST RESULTS

8.1. LIMITS AND PROCEDURE

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.		

ICES-001 Section 3.3.4, IC RSS-216 6.2.2.2, and IC RSS-GEN Sections 8.9 and 8.10.

ICES-001 Issue 5 Table 2 & Table 4:

Table 2: Magnetic field strength radiated emission limits for induction cooking appliances	
Frequency(MHz)	Quasi-peak, at 3 m distance (dBμA/m)
0.009 – 0.07	69
0.07 – 0.15	69 to 39 *
0.15 – 30	39 to 7 *
* The limit level in dBμA/m decreases linearly with the logarithm of frequency.	

Table 4: Electric field strength radiated emission limits for induction cooking appliances			
Frequency range (MHz)	OATS or SAC* 10 m measurement distance	OATS or SAC* 3 m measurement distance	FAR* 3 m measurement distance
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 – 230	30	40	42 to 35 **
230 – 1000	37	47	42
Note: The more stringent limit applies at the transition frequency.			
*OATS = open-area test site, SAC = semi-anechoic chamber, FAR = fully-anechoic room (see CSA C1SPR 11:19).			
**The limit level in dBμV/m decreases linearly with the logarithm of 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 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. Green color trace on plots: Perpendicular orientation.

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

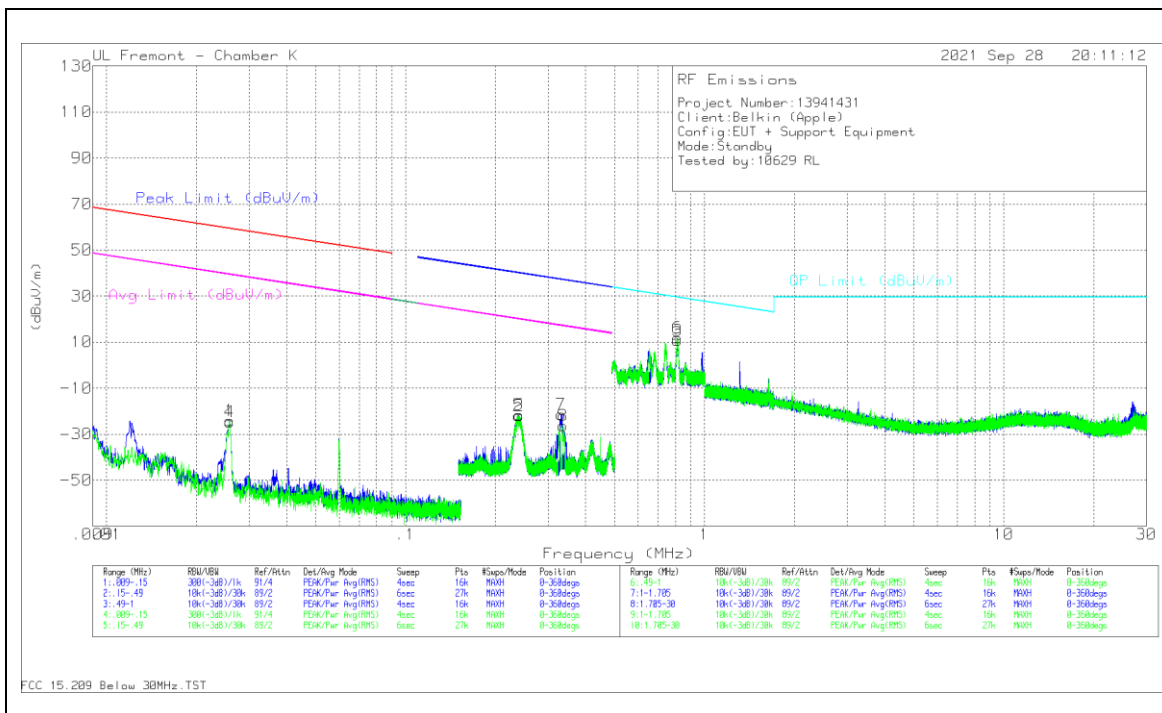
Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

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

RESULTS

8.2. FCC TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

8.2.1. CONFIGURATION 1: TILT ORIENTATION STANDBY MODE



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (E ACF)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Orientation
1	.02582	29.53	Pk	58.4	-32.1	-80	-24.17	59.35	-83.52	39.35	-63.52	0-360	Face On
2	.23914	34.14	Pk	56.2	-32.2	-80	-21.86	40.04	-61.9	20.04	-41.9	0-360	Face On
7	.33087	34.66	Pk	56.2	-32.2	-80	-21.34	37.22	-58.56	17.22	-38.56	0-360	Face On
4	.02587	28.96	Pk	58.4	-32.1	-80	-24.74	59.33	-84.07	39.33	-64.07	0-360	Face Off
5	.2396	34.34	Pk	56.2	-32.2	-80	-21.66	40.03	-61.69	20.03	-41.69	0-360	Face Off
8	.33654	29.74	Pk	56.2	-32.2	-80	-26.26	37.07	-63.33	17.07	-43.33	0-360	Face Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (E ACF)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Orientation
3	.81122	26.72	Pk	56.2	-32.2	-40	10.72	29.43	-18.71	0-360	Face On
6	.81112	27.94	Pk	56.2	-32.2	-40	11.94	29.43	-17.49	0-360	Face Off

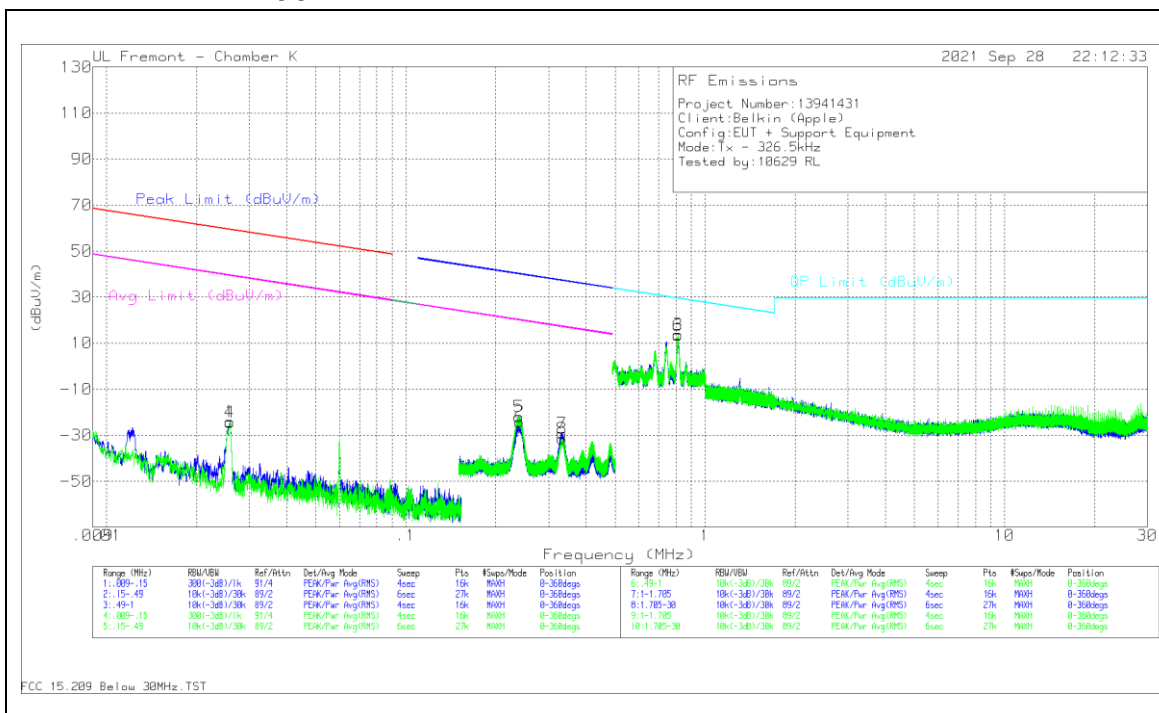
Pk - Peak detector

Radiated Emissions

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (E ACF)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Orientation
7	.32668	37.79	Pk	56.2	-32.2	-80	-18.21	37.33	-55.54	17.33	-35.54	147	Face On
8	.32578	34.71	Pk	56.2	-32.2	-80	-21.29	37.35	-58.64	17.35	-38.64	233	Face Off

Pk - Peak detector

8.2.2. CONFIGURATION 2: FLATBED ORIENTATION OPERATING MODE WITH Apple Watch



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (E ACF)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Orientation
1	.02587	29.66	Pk	56.4	-32.1	-80	-24.04	59.33	-83.37	39.33	-63.37	0-360	Face On
2	.24009	31.93	Pk	56.2	-32.2	-80	-24.07	40.01	-64.08	20.01	-44.08	0-360	Face On
7	.33259	26.77	Pk	56.2	-32.2	-80	-29.23	37.17	-66.4	17.17	-46.4	0-360	Face On
4	.02588	29.4	Pk	56.4	-32.1	-80	-24.3	59.33	-83.63	39.33	-63.63	0-360	Face Off
5	.2387	34.14	Pk	56.2	-32.2	-80	-21.86	40.06	-61.92	20.06	-41.92	0-360	Face Off
8	.33243	24.49	Pk	56.2	-32.2	-80	-31.51	37.18	-68.69	17.18	-48.69	0-360	Face Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (E ACF)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Orientation
3	.81045	29.71	Pk	56.2	-32.2	-40	13.71	29.44	-15.73	0-360	Face On
6	.81198	29.58	Pk	56.2	-32.2	-40	13.58	29.43	-15.85	0-360	Face Off

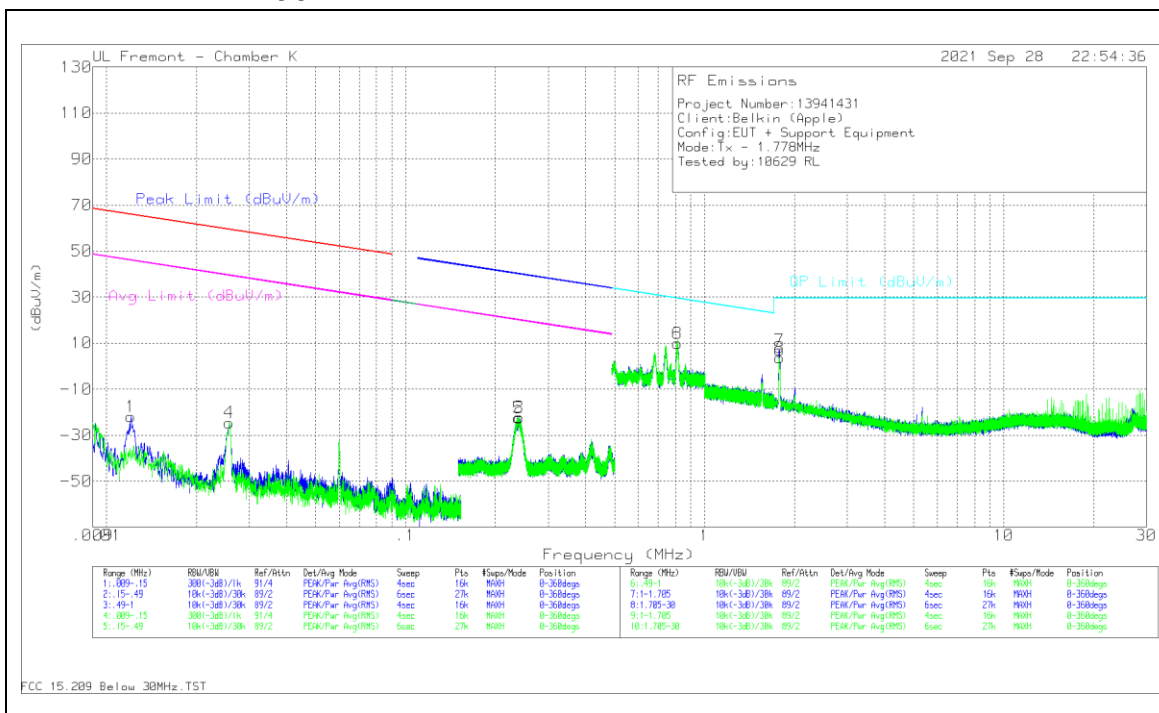
Pk - Peak detector

Radiated Emissions

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (E ACF)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Orientation
7	.32659	28.28	Pk	56.2	-32.2	-80	-27.72	37.33	-65.05	17.33	-45.05	114	Face On
8	.32722	25.64	Pk	56.2	-32.2	-80	-30.36	37.31	-67.67	17.31	-47.67	204	Face Off

Pk - Peak detector

8.2.3. CONFIGURATION 3: FLATBED ORIENTATION OPERATING MODE WITH Apple Watch



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (E ACF)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Orientation
1	.01208	29.38	Pk	60.1	-31.5	-80	-22.02	65.94	-87.96	45.94	-67.96	0-360	Face On
2	.23997	33.71	Pk	56.2	-32.2	-80	-22.29	40.01	-62.3	20.01	-42.3	0-360	Face On
4	.02578	29.17	Pk	58.4	-32.1	-80	-24.53	59.36	-83.89	39.36	-63.89	0-360	Face Off
5	.23914	33.62	Pk	56.2	-32.2	-80	-22.38	40.04	-62.42	20.04	-42.42	0-360	Face Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (E ACF)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Orientation
3	.81269	25.99	Pk	56.2	-32.2	-40	9.99	29.42	-19.43	0-360	Face On
6	.80984	25.88	Pk	56.2	-32.2	-40	9.88	29.45	-19.57	0-360	Face Off
7	1.77731	36.42	Pk	42.7	-32.1	-40	7.02	29.5	-22.48	0-360	Face On
8	1.77731	33.13	Pk	42.7	-32.1	-40	3.73	29.5	-25.77	0-360	Face Off

Pk - Peak detector

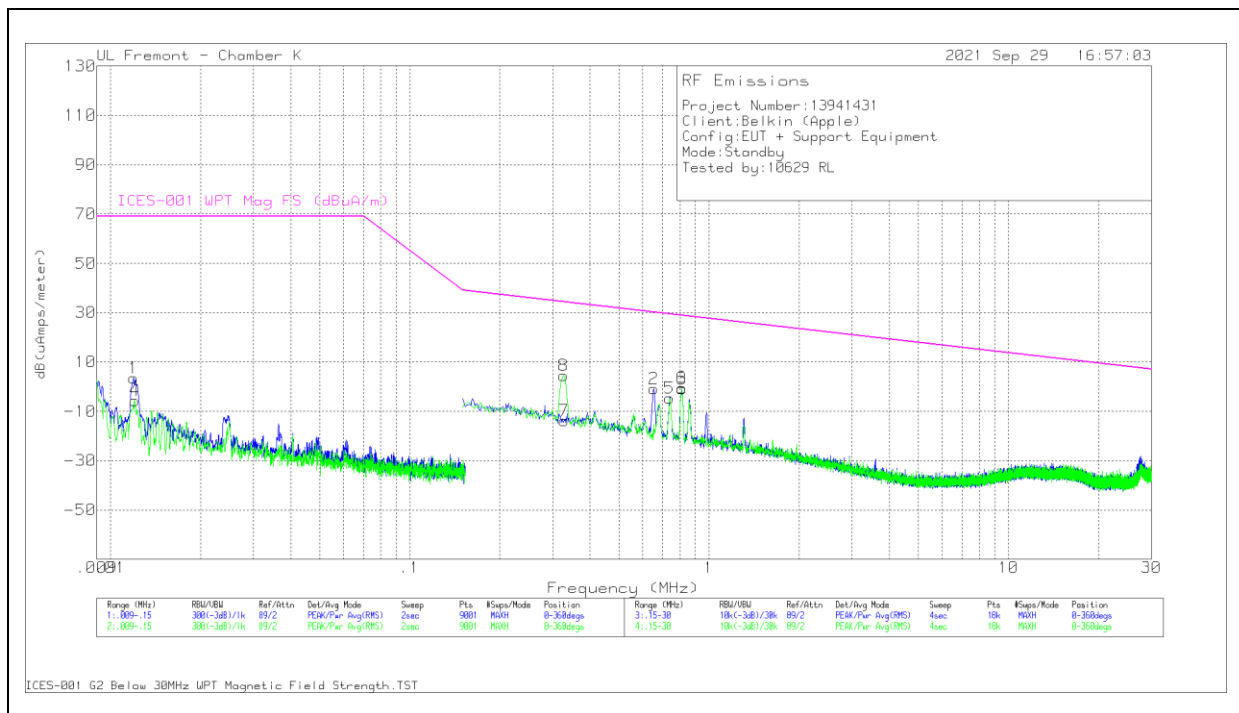
Radiated Emissions

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (E ACF)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Orientation
7	1.77767	36.94	Pk	42.7	-32.1	-40	7.54	29.5	-21.96	257	Face On
8	1.77803	33.76	Pk	42.7	-32.1	-40	4.36	29.5	-25.14	176	Face Off

Pk - Peak detector

8.3. IC / CISPR 11 TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

8.3.1. CONFIGURATION 1: TILT ORIENTATION STANDBY MODE



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (H ACF)	Amp/Cbl (dB)	Corrected Reading dB(uAmps/meter)	ICES-001 WPT Mag FS (dBA/m)	Margin (dB)	Azimuth (Degs)	Orientation
1	.01195	26.36	Pk	8.6	-31.5	3.46	69	-65.54	0-360	Face On
4	.01206	17.38	Pk	8.6	-31.5	-5.52	69	-74.52	0-360	Face Off
2	.65237	32.55	Pk	-1.3	-32.1	-85	30.12	-30.97	0-360	Face On
3	.81154	34.47	Pk	-3.1	-32.2	-.83	28.8	-29.63	0-360	Face On
7	.32741	14.1	Pk	4.4	-32.2	-13.7	34.29	-47.99	0-360	Face On
5	.73776	29.85	Pk	-2.3	-32.2	-4.65	29.38	-34.03	0-360	Face Off
6	.80988	34.87	Pk	-3.1	-32.2	-.43	28.82	-29.25	0-360	Face Off
8	.32575	32.31	Pk	4.5	-32.2	4.61	34.32	-29.71	0-360	Face Off

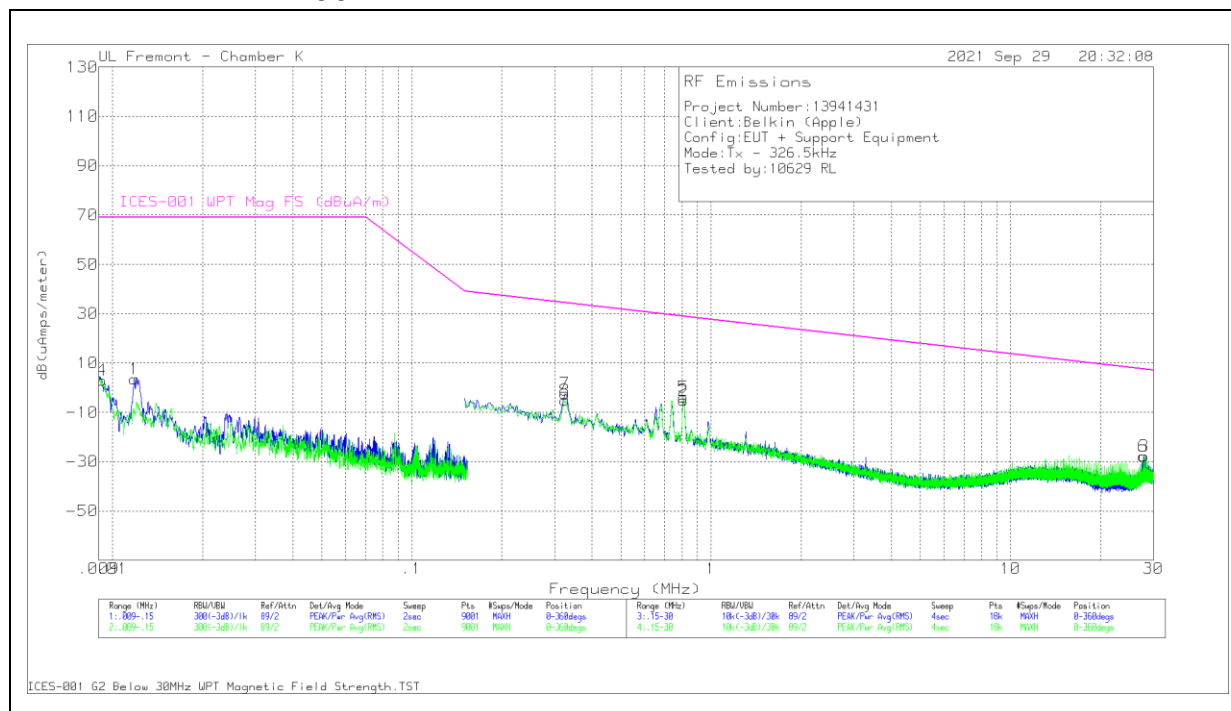
Pk - Peak detector

Radiated Emissions

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (H ACF)	Amp/Cbl (dB)	Corrected Reading dB(uAmps/meter)	ICES-001 WPT Mag FS (dBA/m)	Margin (dB)	Azimuth (Degs)	Orientation
7	.32614	33.99	Pk	4.4	-32.2	6.19	34.31	-28.12	250	Face On
8	.32668	37.59	Pk	4.4	-32.2	9.79	34.3	-24.51	165	Face Off

Pk - Peak detector

8.3.2. CONFIGURATION 2: FLATBED ORIENTATION OPERATING MODE WITH Apple Watch



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (H ACF)	Amp/Cbl (dB)	Corrected Reading dB(uAmps/meter)	IC65-001 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Orientation
1	.01185	26.33	Pk	8.7	-31.5	3.53	69	-65.47	0-360	Face On
4	.00921	24.53	Pk	9.7	-31.3	2.93	69	-66.07	0-360	Face Off
2	.80657	30.11	Pk	-3.1	-32.2	-5.19	28.84	-34.03	0-360	Face On
3	27.85186	21.95	Pk	-18.2	-31.6	-27.85	7.45	-35.3	0-360	Face On
7	.32409	25.28	Pk	4.5	-32.2	-2.42	34.35	-36.77	0-360	Face On
5	.80823	31.54	Pk	-3.1	-32.2	-3.76	28.83	-32.59	0-360	Face Off
6	27.75238	22.08	Pk	-18.2	-31.6	-27.72	7.47	-35.19	0-360	Face Off
8	.32409	22.51	Pk	4.5	-32.2	-5.19	34.35	-39.54	0-360	Face Off

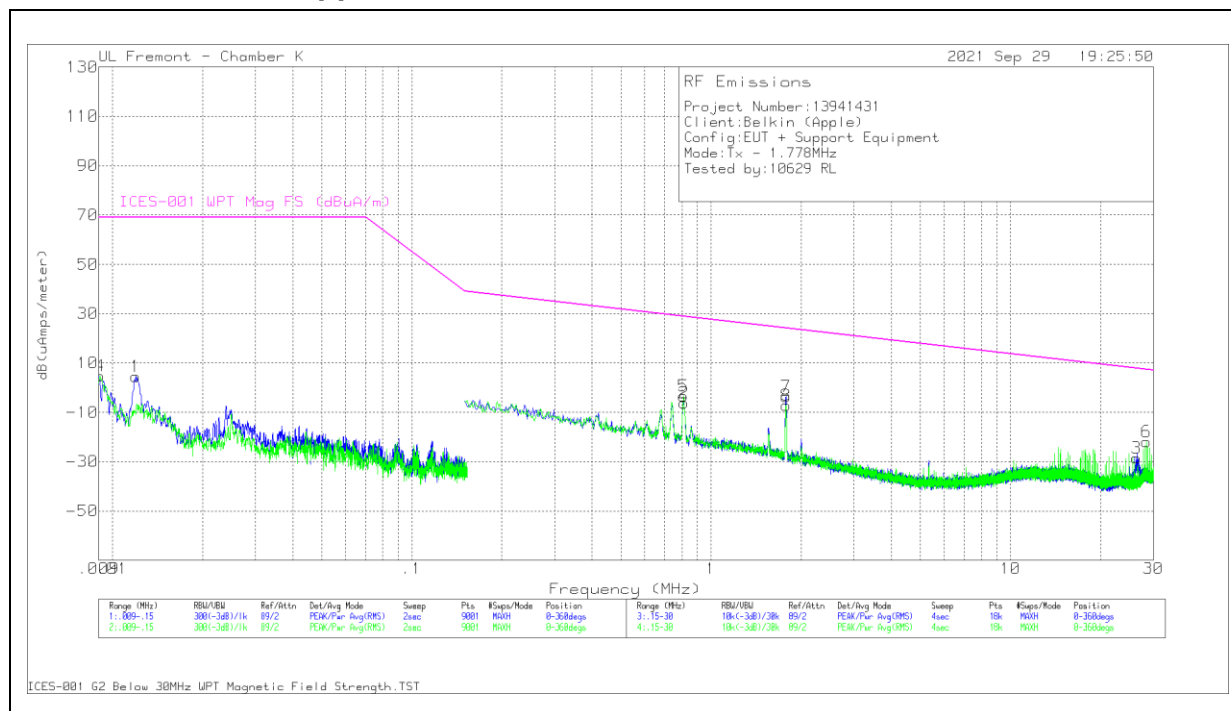
Pk - Peak detector

Radiated Emissions

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (H ACF)	Amp/Cbl (dB)	Corrected Reading dB(uAmps/meter)	IC65-001 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Orientation
7	.32563	25.46	Pk	4.5	-32.2	-2.24	34.32	-36.56	153	Face On
8	.32563	27.9	Pk	4.5	-32.2	.2	34.32	-34.12	252	Face Off

Pk - Peak detector

8.3.3. CONFIGURATION 3: FLATBED ORIENTATION OPERATING MODE WITH Apple Watch



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (H ACF)	Amp/Cbl (dB)	Corrected Reading dB(uAmps/meter)	ICES-001 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Orientation
1	.01198	27.38	Pk	8.6	-31.5	4.48	69	-64.52	0-360	Face On
4	.00908	26.27	Pk	9.8	-31.3	4.77	69	-64.23	0-360	Face Off
2	.81154	29.16	Pk	-3.1	-32.2	-6.14	28.8	-34.94	0-360	Face On
3	26.31987	21.24	Pk	-18.2	-31.6	-28.56	7.79	-36.35	0-360	Face On
7	1.7765	37.27	Pk	-8.8	-32.1	-3.63	24.07	-27.7	0-360	Face On
5	.80823	31.93	Pk	-3.1	-32.2	-3.37	28.83	-32.2	0-360	Face Off
6	28.44211	27.84	Pk	-18.3	-31.5	-21.96	7.32	-29.28	0-360	Face Off
8	1.7765	33.63	Pk	-8.8	-32.1	-7.27	24.07	-31.34	0-360	Face Off

Pk - Peak detector

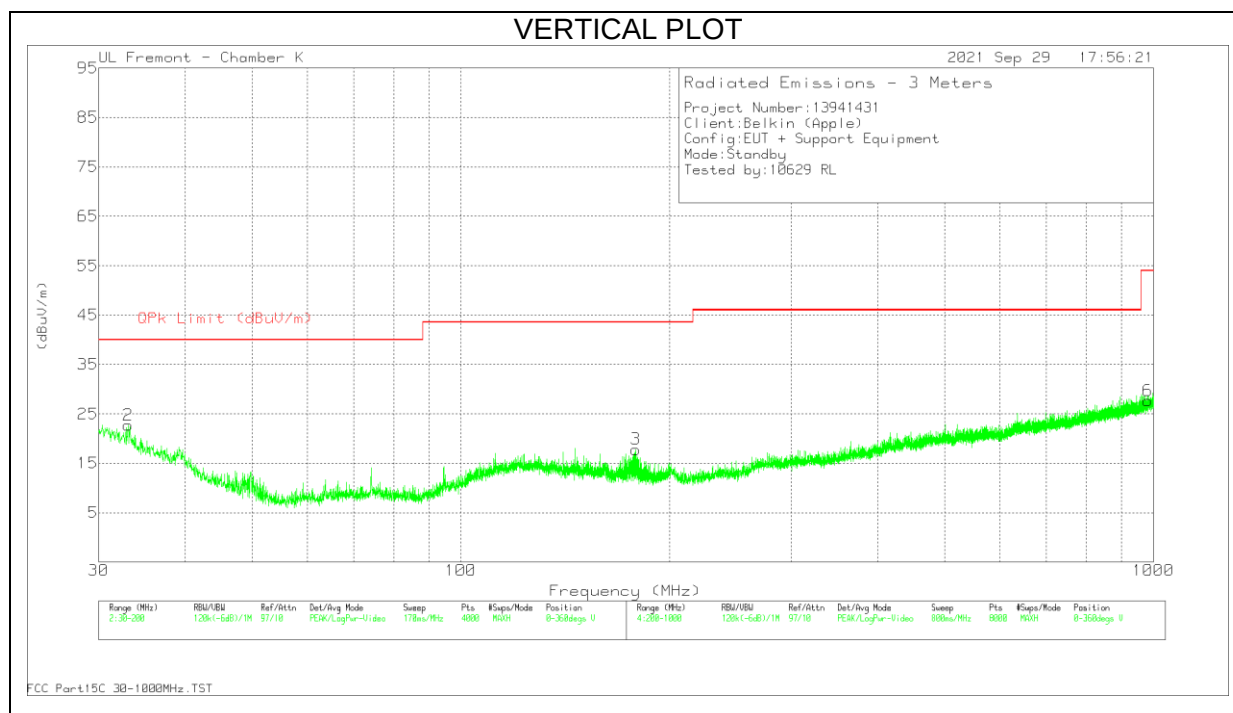
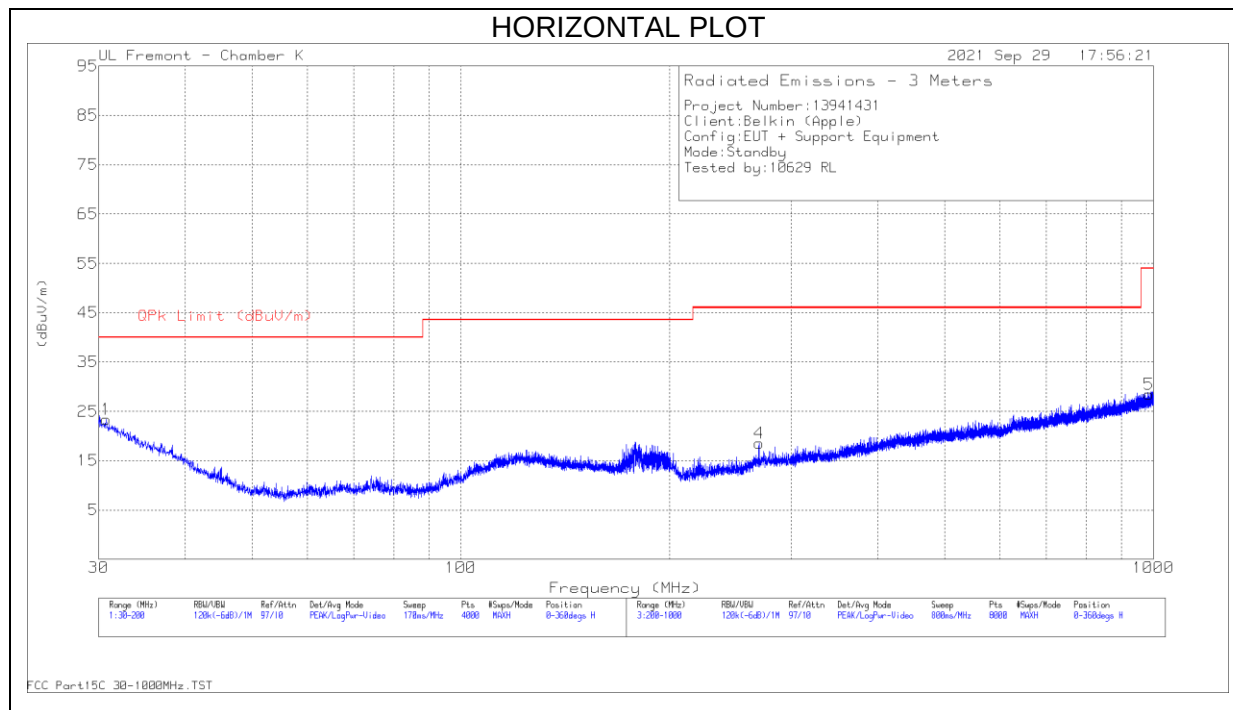
Radiated Emissions

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (H ACF)	Amp/Cbl (dB)	Corrected Reading dB(uAmps/meter)	ICES-001 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)	Orientation
7	1.77908	37.29	Pk	-8.8	-32.1	-3.61	24.06	-27.67	67	Face On
8	1.77809	34.34	Pk	-8.8	-32.1	-6.56	24.07	-30.63	172	Face Off

Pk - Peak detector

8.4. FCC TX SPURIOUS EMISSION 30 TO 1000 MHz

8.4.1. CONFIGURATION 1: TILT ORIENTATION STANDBY MODE



DATA

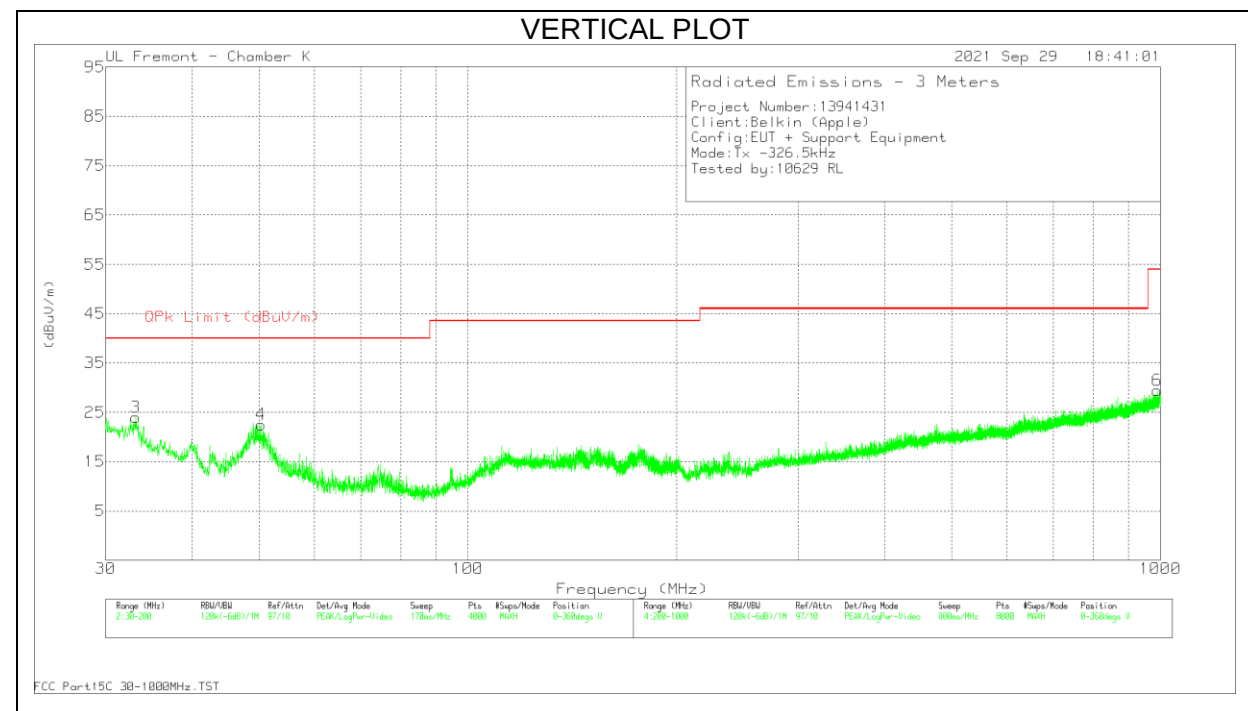
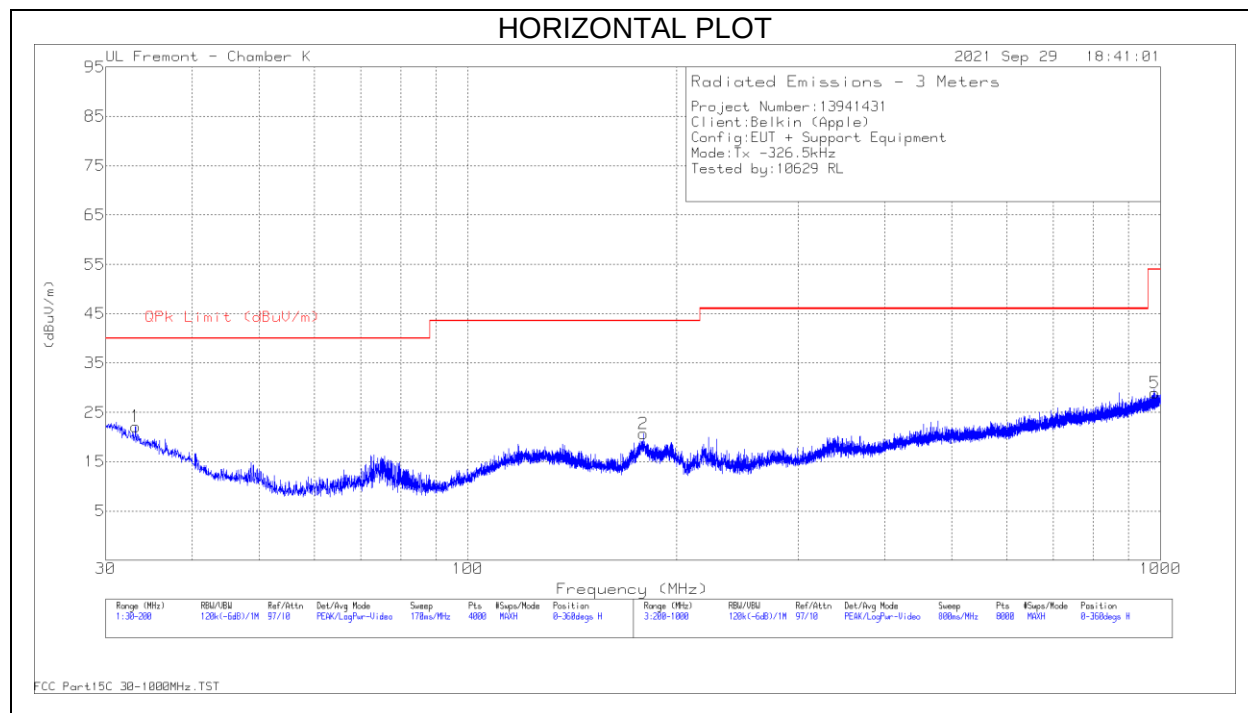
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 202301 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.7652	28.63	Pk	26.3	-31.6	23.33	40	-16.67	0-360	295	H
2	33.0608	29.45	Pk	24.8	-31.5	22.75	40	-17.25	0-360	101	V
3	179.0436	31.34	Pk	16.9	-30.4	17.84	43.52	-25.68	0-360	101	V
4	* 269.409	29.57	Pk	19	-30	18.57	46.02	-27.45	0-360	199	H
5	* 984.902	25.6	Pk	28.9	-26.1	28.4	53.97	-25.57	0-360	394	H
	* 984.902	18.61	Qp	28.9	-26.1	21.41	53.97	-32.56	168	111	H
6	* 981.9016	24.91	Pk	28.9	-26.1	27.71	53.97	-26.26	0-360	299	V

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

Pk - Peak detector

Qp - Quasi-Peak detector

8.4.2. CONFIGURATION 2: FLATBED ORIENTATION OPERATING MODE WITH Apple Watch



DATA

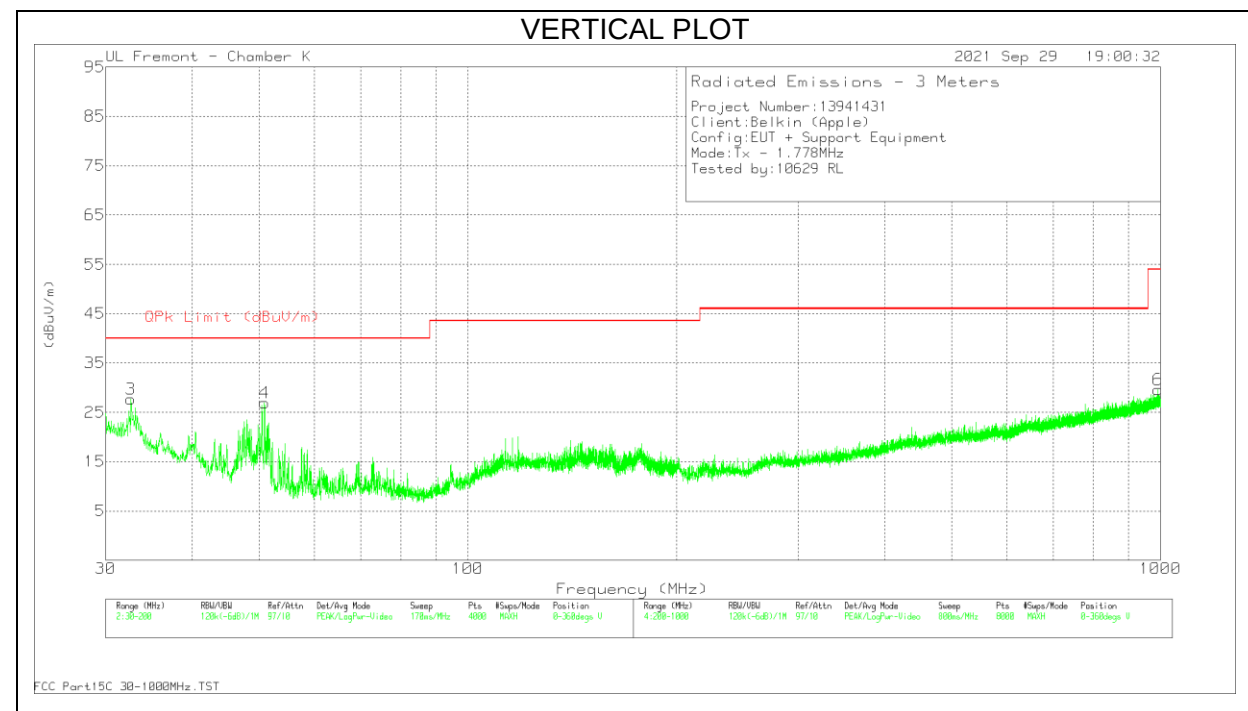
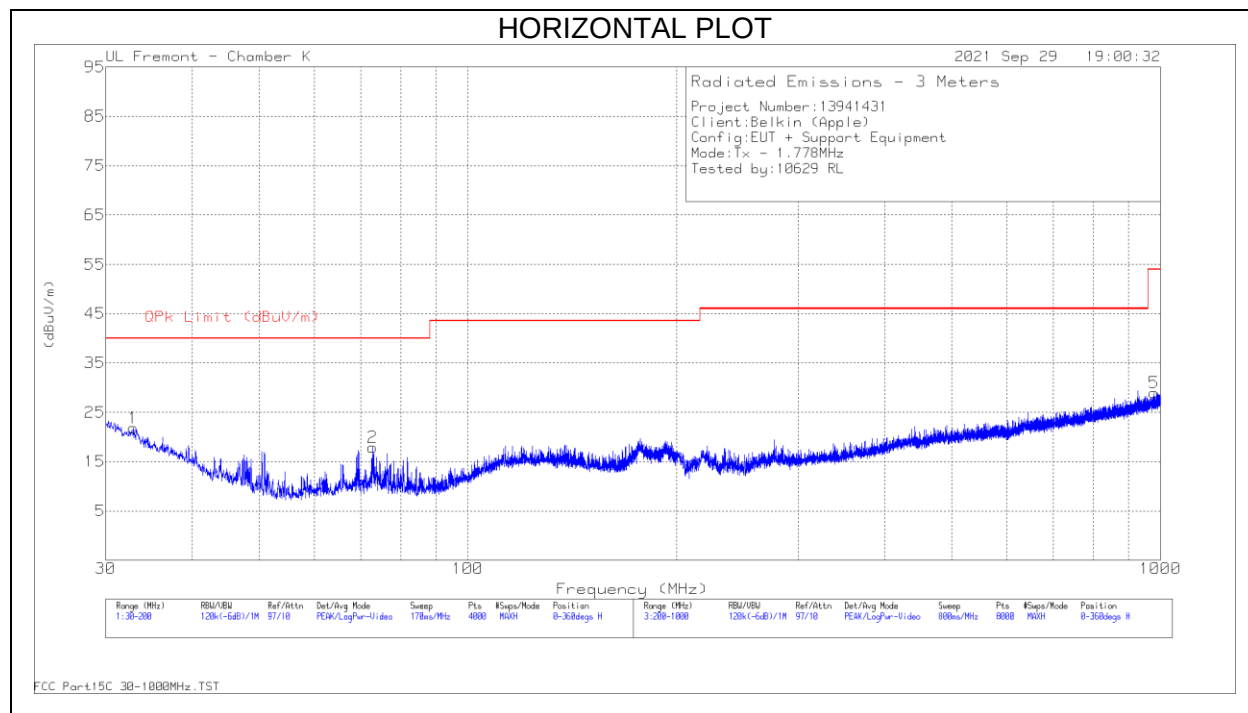
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 202301 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.1458	28.86	Pk	24.8	-31.5	22.16	40	-17.84	0-360	197	H
2	179.1286	34.22	Pk	16.9	-30.4	20.72	43.52	-22.8	0-360	197	H
3	33.1883	30.78	Pk	24.7	-31.5	23.98	40	-16.02	0-360	97	V
4	50.2777	40.34	Pk	13.5	-31.3	22.54	40	-17.46	0-360	97	V
	50.2877	38.52	Qp	13.5	-31.3	20.72	40	-19.28	116	108	V
5	* 980.4014	26.1	Pk	28.9	-26.1	28.9	53.97	-25.07	0-360	199	H
6	* 988.9025	26.44	Pk	29	-26	29.44	53.97	-24.53	0-360	299	V

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

Pk - Peak detector

Qp - Quasi-Peak detector

8.4.3. CONFIGURATION 3: FLATBED ORIENTATION OPERATING MODE WITH Apple Watch



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 202301 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	32.8907	28.36	Pk	25	-31.5	21.86	40	-18.14	0-360	295	H
2	72.8936	35.08	Pk	13.9	-31.1	17.88	40	-22.12	0-360	295	H
3	32.6357	34.04	Pk	25.1	-31.5	27.64	40	-12.36	0-360	100	V
	32.6598	29.1	Qp	25.1	-31.5	22.7	40	-17.3	75	142	V
4	50.8729	44.97	Pk	13.4	-31.4	26.97	40	-13.03	0-360	100	V
5	* 979.6013	26.11	Pk	28.9	-26	29.01	53.97	-24.96	0-360	199	H
6	* 992.503	26.61	Pk	29	-26	29.61	53.97	-24.36	0-360	199	V

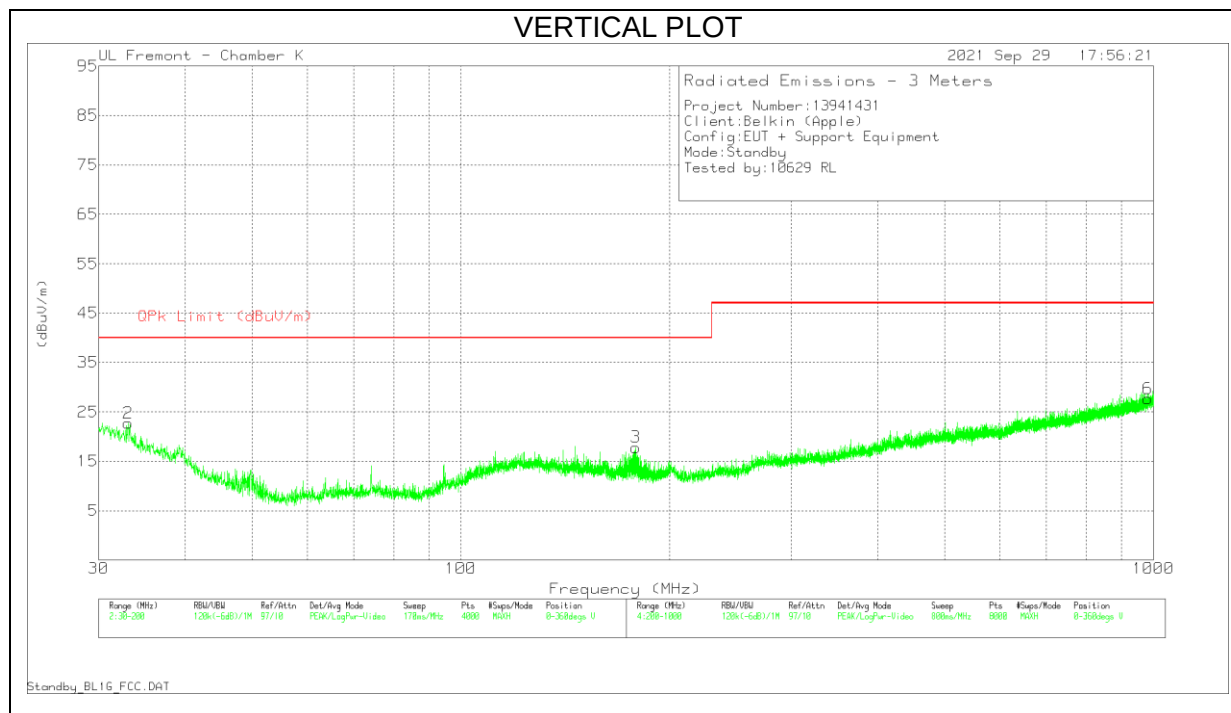
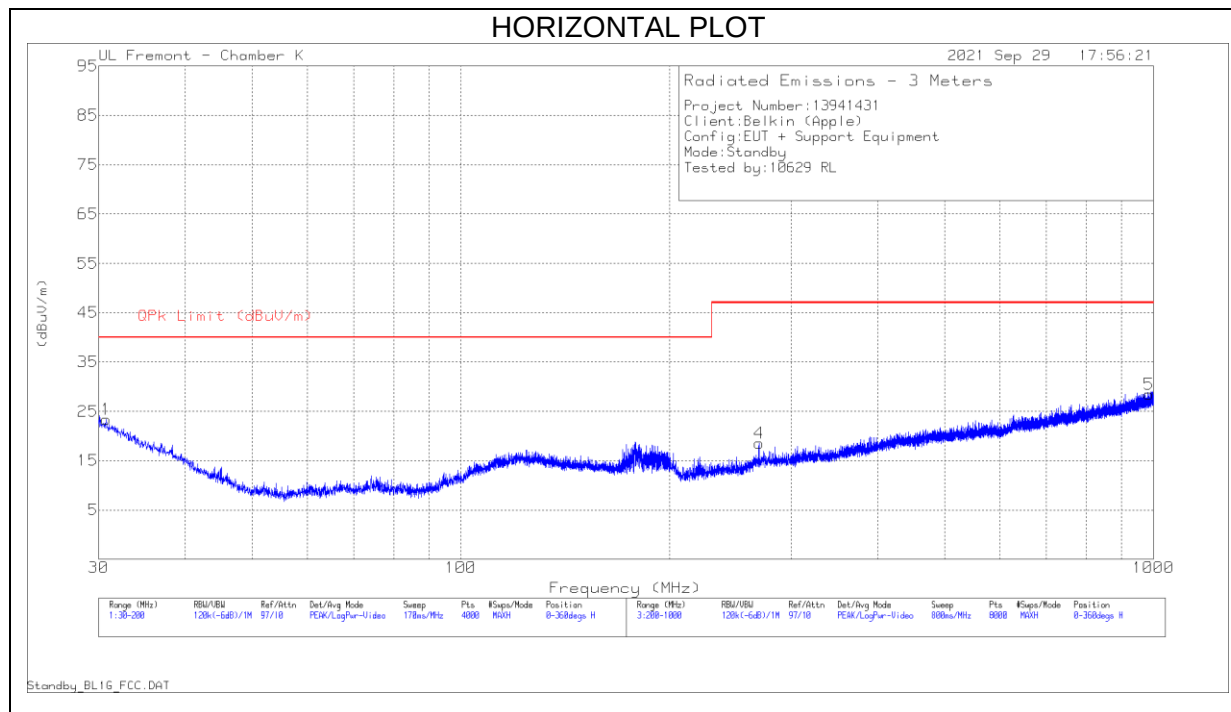
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Qp - Quasi-Peak detector

8.5. IC / CISPR 11 TX SPURIOUS EMISSION 30 TO 1000 MHz

8.5.1. CONFIGURATION 1: TILT ORIENTATION STANDBY MODE



DATA

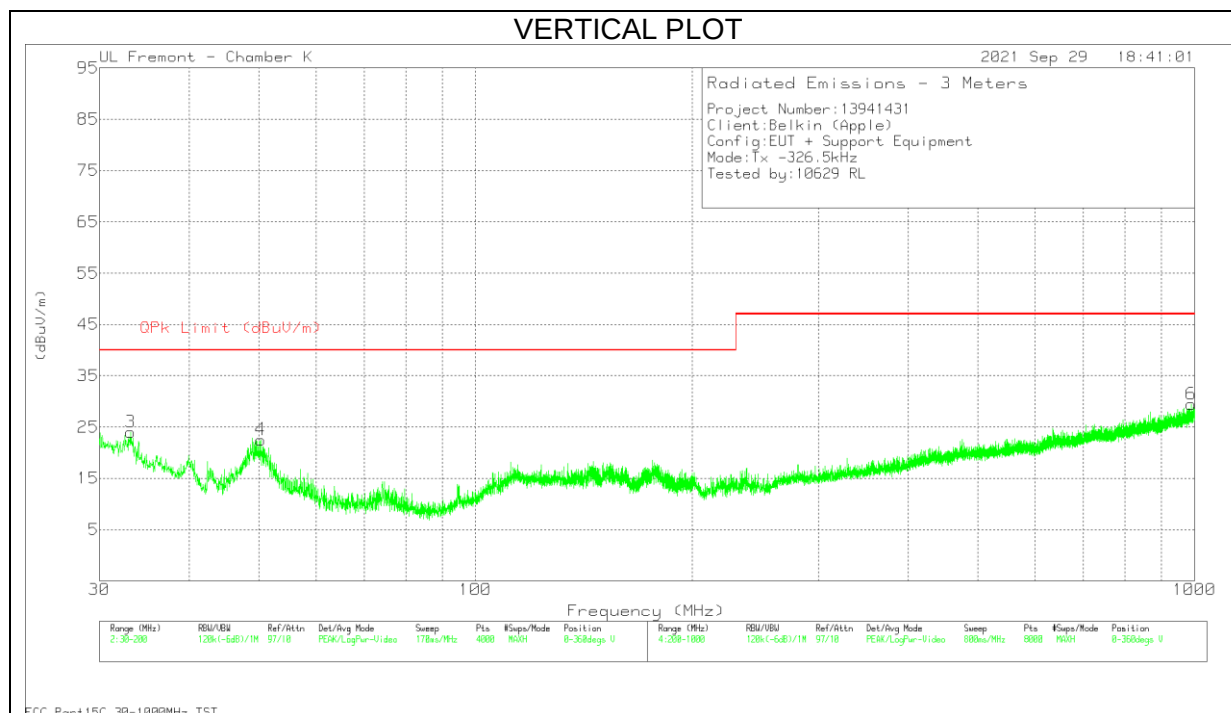
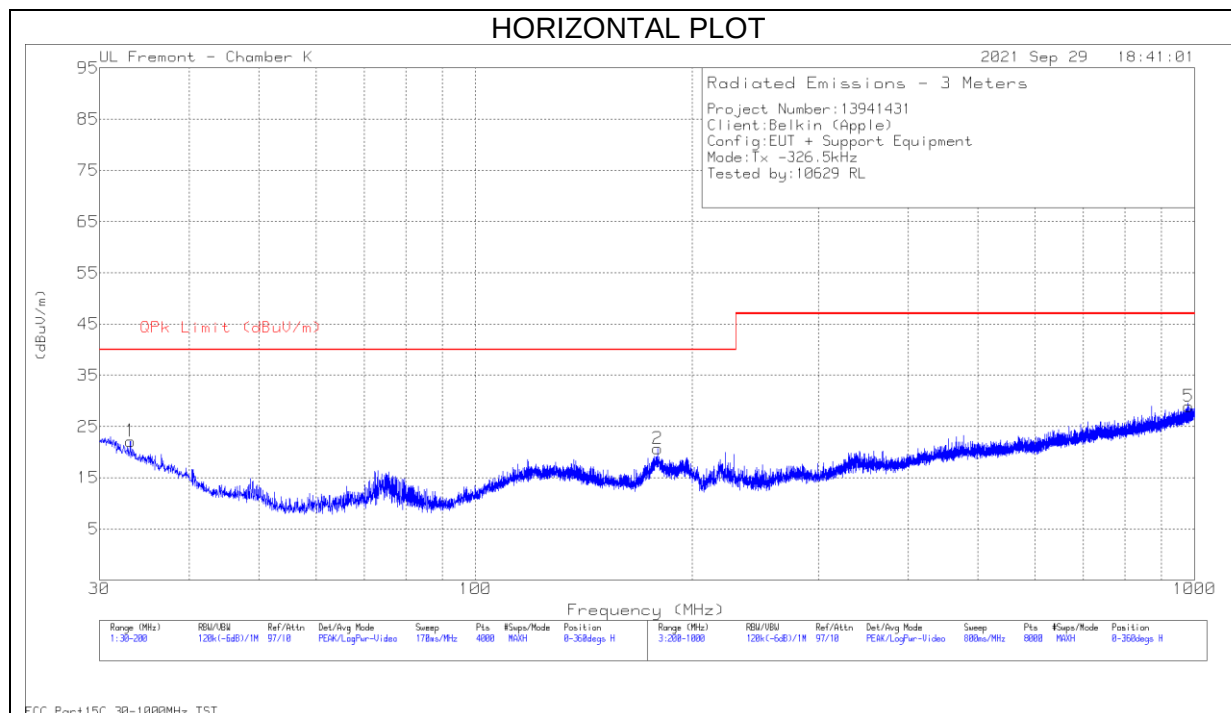
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 202301 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.7652	28.63	Pk	26.3	-31.6	23.33	40	-16.67	0-360	295	H
2	33.0608	29.45	Pk	24.8	-31.5	22.75	40	-17.25	0-360	101	V
3	179.0436	31.34	Pk	16.9	-30.4	17.84	40	-22.16	0-360	101	V
4	* 269.409	29.57	Pk	19	-30	18.57	47	-28.43	0-360	199	H
5	* 984.902	25.6	Pk	28.9	-26.1	28.4	47	-18.6	0-360	394	H
	* 984.902	18.61	Qp	28.9	-26.1	21.41	47	-25.59	168	111	H
6	* 981.9016	24.91	Pk	28.9	-26.1	27.71	47	-19.29	0-360	299	V

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

Pk - Peak detector

Qp - Quasi-Peak detector

8.5.2. CONFIGURATION 2: FLATBED ORIENTATION OPERATING MODE WITH Apple Watch



DATA

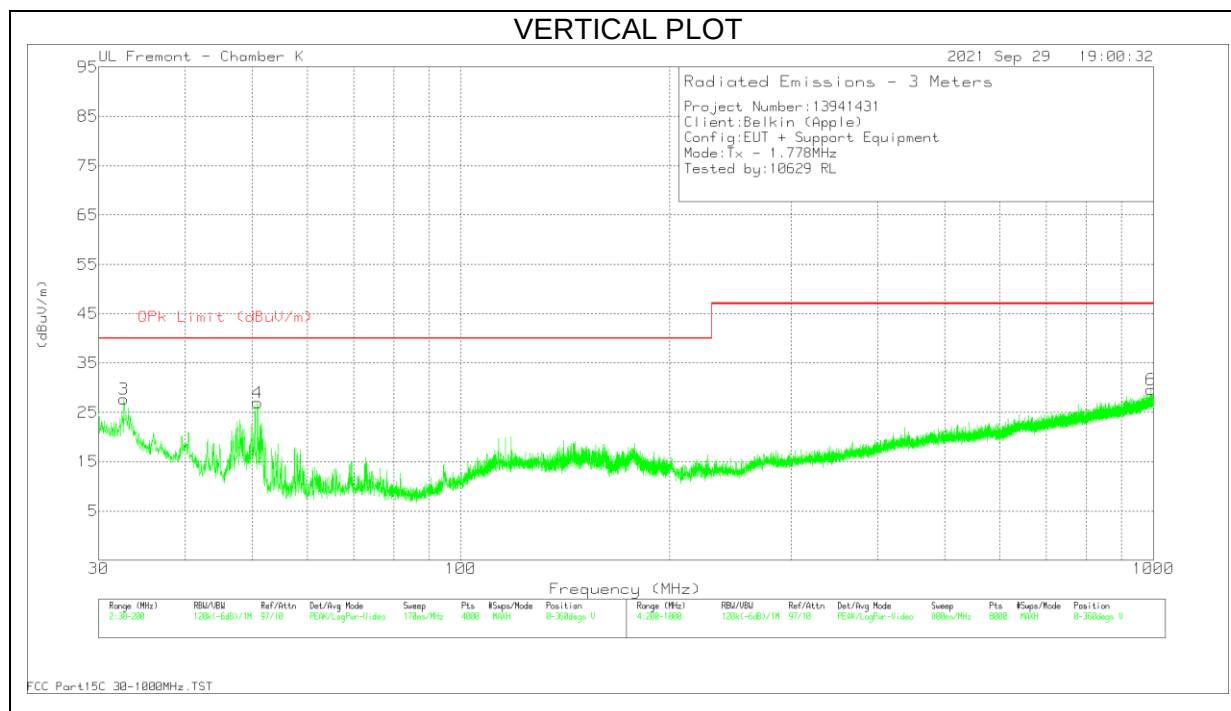
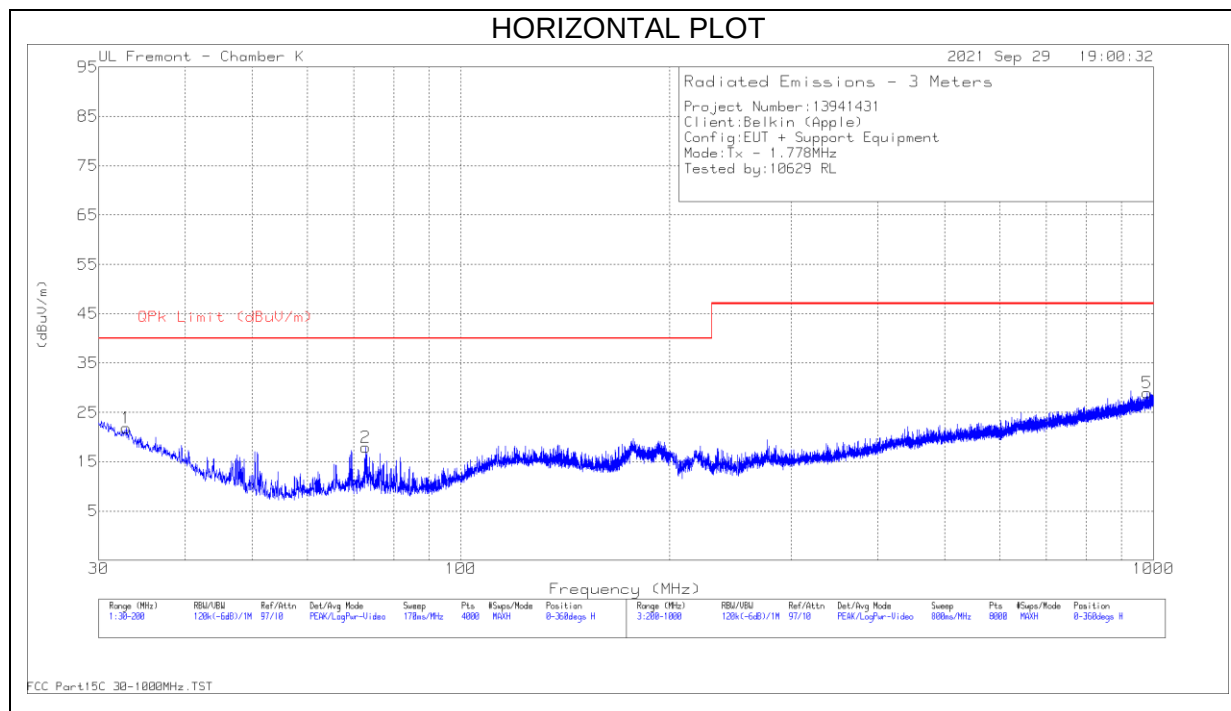
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 202301 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.1458	28.86	Pk	24.8	-31.5	22.16	40	-17.84	0-360	197	H
2	179.1286	34.22	Pk	16.9	-30.4	20.72	40	-19.28	0-360	197	H
3	33.1883	30.78	Pk	24.7	-31.5	23.98	40	-16.02	0-360	97	V
4	50.2777	40.34	Pk	13.5	-31.3	22.54	40	-17.46	0-360	97	V
	50.2877	38.52	Qp	13.5	-31.3	20.72	40	-19.28	116	108	V
5	* 980.4014	26.1	Pk	28.9	-26.1	28.9	47	-18.1	0-360	199	H
6	* 988.9025	26.44	Pk	29	-26	29.44	47	-17.56	0-360	299	V

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

Pk - Peak detector

Qp - Quasi-Peak detector

8.5.3. CONFIGURATION 3: FLATBED ORIENTATION OPERATING MODE WITH Apple Watch



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 202301 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	32.8907	28.36	Pk	25	-31.5	21.86	40	-18.14	0-360	295	H
2	72.8936	35.08	Pk	13.9	-31.1	17.88	40	-22.12	0-360	295	H
3	32.6357	34.04	Pk	25.1	-31.5	27.64	40	-12.36	0-360	100	V
	32.6598	29.1	Qp	25.1	-31.5	22.7	40	-17.3	75	142	V
4	50.8729	44.97	Pk	13.4	-31.4	26.97	40	-13.03	0-360	100	V
5	* 979.6013	26.11	Pk	28.9	-26	29.01	47	-17.99	0-360	199	H
6	* 992.503	26.61	Pk	29	-26	29.61	47	-17.39	0-360	199	V

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

Pk - Peak detector

Qp - Quasi-Peak detector

9. AC MAINS 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.

ICES-001 Issue 5 Table 1

Table 1: Conducted emission limits for induction cooking appliances (AC mains terminals)				
Frequency range (MHz)	Appliances rated 120 V, without an earth connection	Appliances rated 120 V, without an earth connection	All other appliances	All other appliances
	Quasi-peak (dBµV)	Average (dBµV)	Quasi-peak (dBµV)	Average (dBµV)
0.009 – 0.05	122	—	110	—
0.05 – 0.15	102 to 92 *	—	90 to 80 *	—
0.15 – 0.5	72 to 62 *	62 to 52 *	66 to 56 *	56 to 46 *
0.5 – 5	56	46	56	46
5 – 30	60	50	60	50

Note: The more stringent limit applies at transition frequencies.
*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.

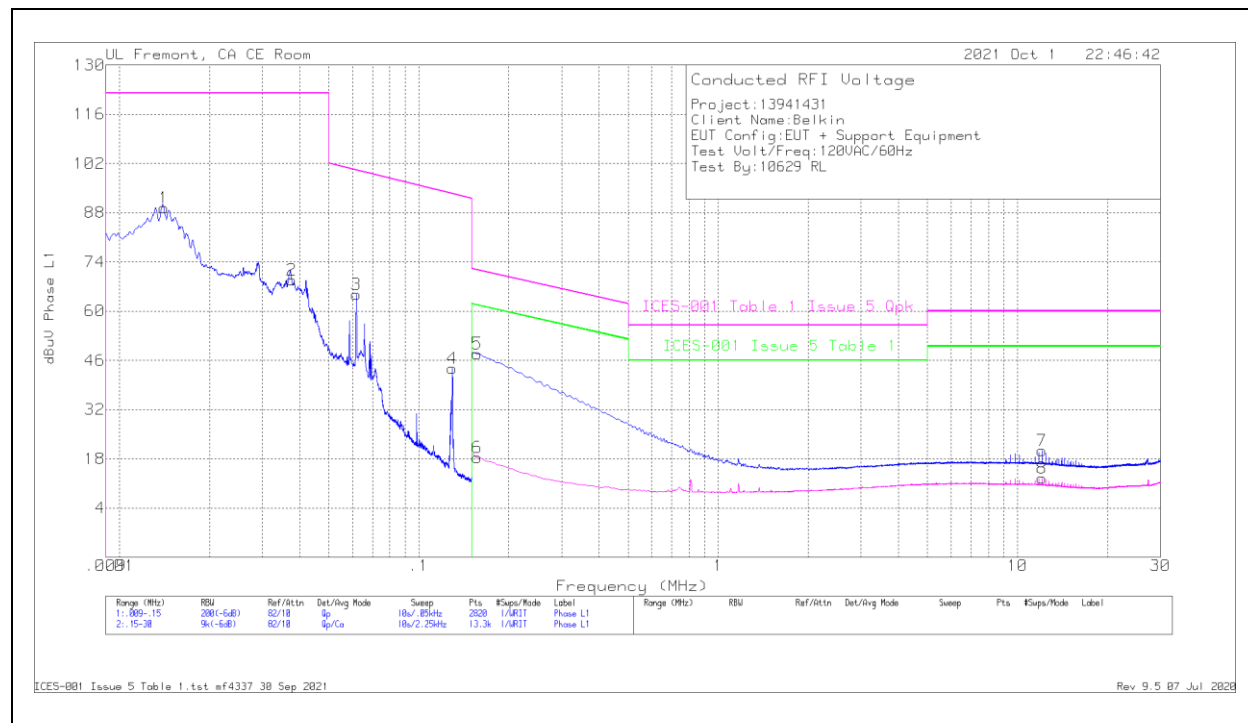
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

9.1. CONFIGURATION 1: TILT ORIENTATION STANDBY MODE

LINE 1 RESULTS



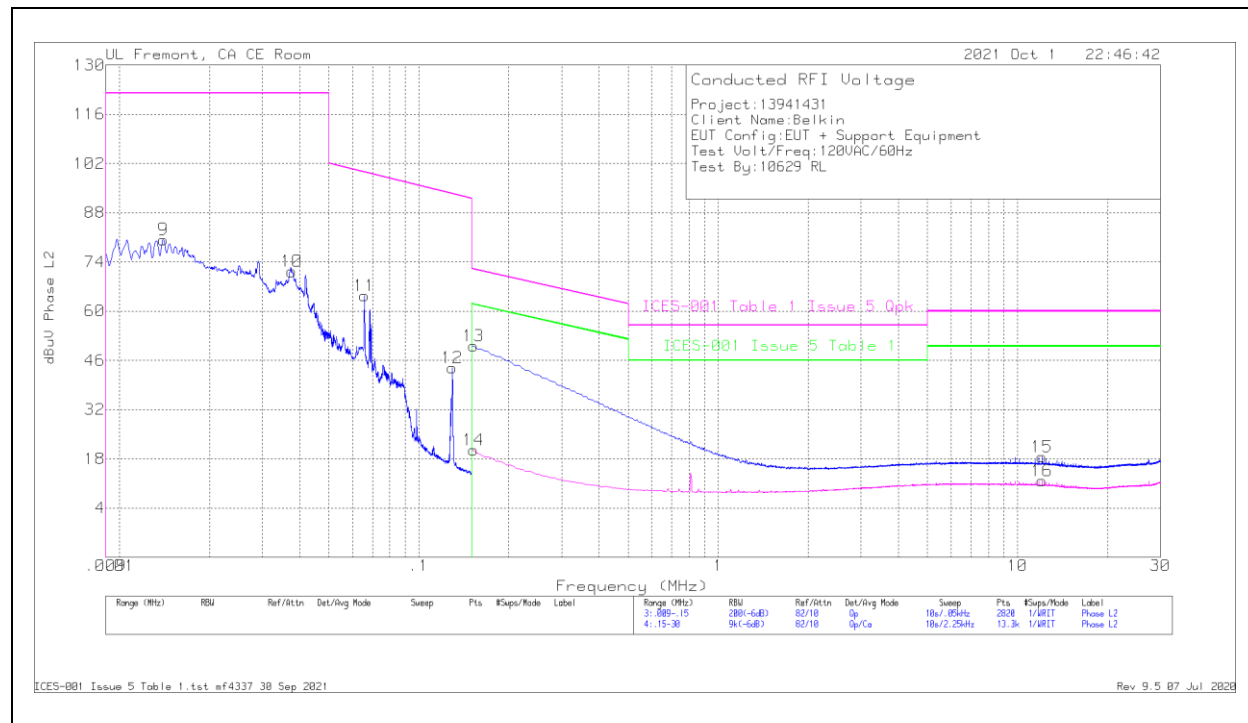
WORST EMISSIONS

Range 1: Phase L1 .009 - .15MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE0186447 L1	LC Cables C1&C3 dB	TekBox Limiter TBFL1 Model 207	10 dB Pad	Corrected Reading dBuV	ICIS-001 Issue 5 Table 1	Margin (dB)	ICIS-001 Table 1 Issue 5 Qpk	Margin (dB)
1	.01405	66.88	Qp	.1	0	12.4	10	89.38	-	-	122	-32.62
2	.0376	47.21	Qp	.1	0	11.6	10	68.91	-	-	122	-53.09
3	.0618	43.72	Qp	.1	0	10.9	10	64.72	-	-	100.07	-35.35
4	.1295	24.24	Qp	.1	0	9.4	10	43.74	-	-	93.34	-49.6

Range 2: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE0186447 L1	LC Cables C1&C3 dB	TekBox Limiter TBFL1 Model 207	10 dB Pad	Corrected Reading dBuV	ICIS-001 Issue 5 Table 1	Margin (dB)	ICIS-001 Table 1 Issue 5 Qpk	Margin (dB)
6	.15675	-1.06	Ca	.1	0	9.4	10	18.44	61.63	-43.19	-	-
8	12.08175	-7.12	Ca	.1	.2	9.3	10	12.48	50	-37.52	-	-
5	.15675	28.39	Qp	.1	0	9.4	10	47.89	-	-	71.63	-23.74
7	12.08175	.75	Qp	.1	.2	9.3	10	20.35	-	-	60	-39.65

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

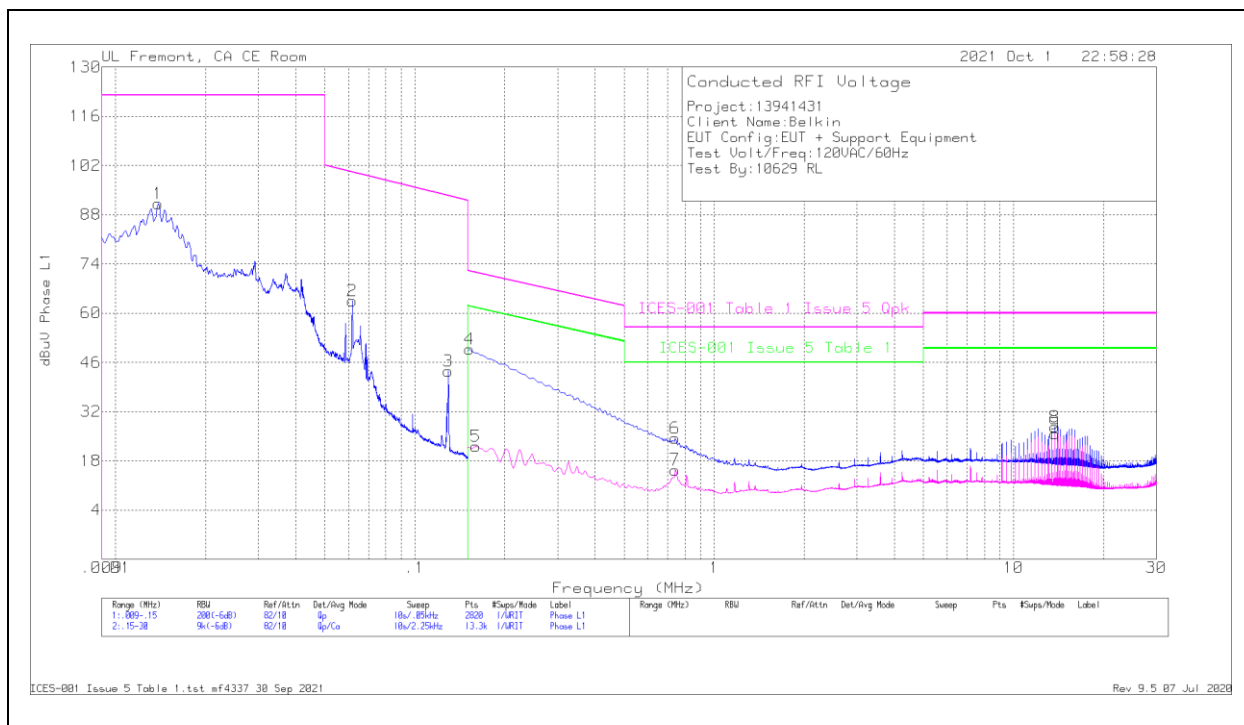
Range 3: Phase L2 .009 - .15MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE0186447 L2	LC Cables C2&C3 dB	TekBox Limiter TBFL1 Model 207	10 dB Pad	Corrected Reading dBuV	ICES-001 Issue 5 Table 1	Margin (dB)	ICES-001 Table 1 Issue 5 Qpk	Margin (dB)
9	.014	57.96	Qp	0	0	12.4	10	80.36	-	-	122	-41.64
10	.0376	49.67	Qp	0	0	11.6	10	71.27	-	-	122	-50.73
11	.0658	43.55	Qp	0	0	10.8	10	64.35	-	-	99.5	-35.15
12	.1295	24.4	Qp	0	0	9.4	10	43.8	-	-	93.34	-49.54

Range 4: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 7 L2	LC Cables C2&C3 dB	TekBox Limiter TBFL1 Model 207	10 dB Pad	Corrected Reading dBuV	ICES-001 Issue 5 Table 1	Margin (dB)	ICES-001 Table 1 Issue 5 Qpk	Margin (dB)
14	.15225	1.11	Ca	0	0	9.4	10	20.51	61.88	-41.37	-	-
16	12.08175	-7.88	Ca	.1	.2	9.3	10	11.72	50	-38.28	-	-
13	.15225	30.73	Qp	0	0	9.4	10	50.13	-	-	71.88	-21.75
15	12.08175	-1.05	Qp	.1	.2	9.3	10	18.55	-	-	60	-41.45

Qp - Quasi-Peak detector
Ca - CISPR average detection

9.2. CONFIGURATION 2: FLATBED ORIENTATION OPERATING MODE WITH Apple Watch

LINE 1 RESULTS



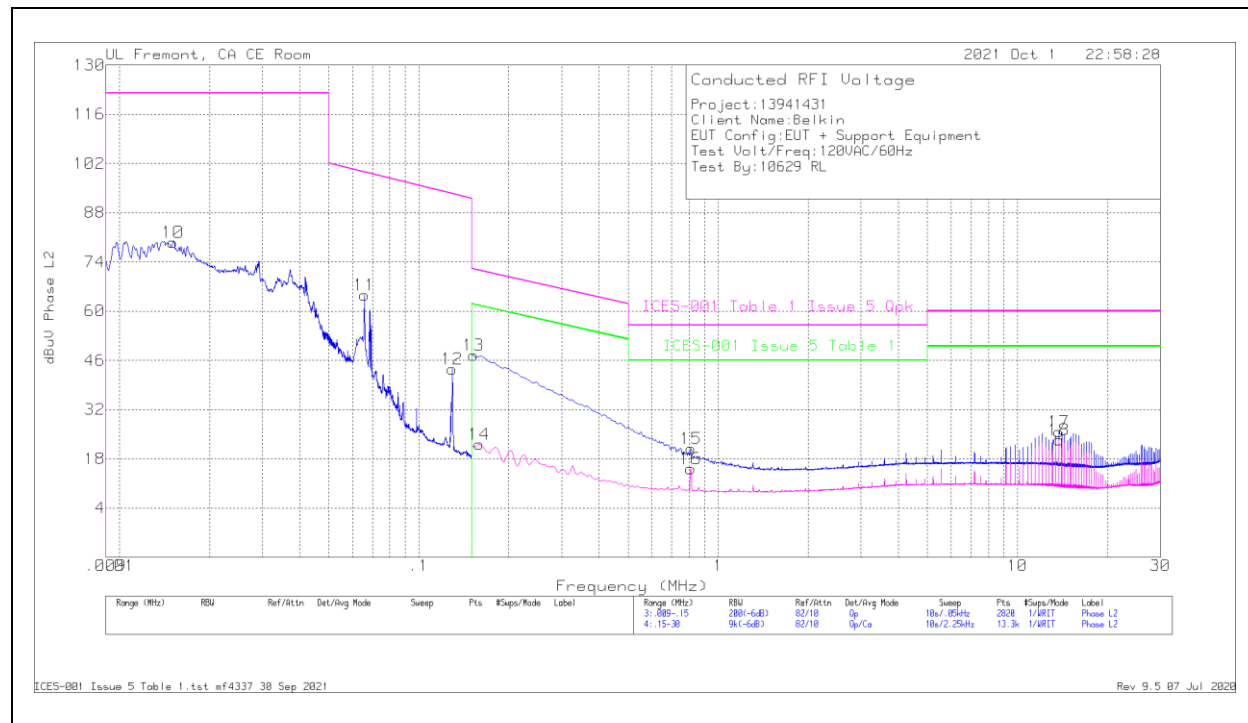
WORST EMISSIONS

Range 1: Phase L1 .009 - .15MHz												
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	PRE018644 7 L1	LC Cables C1&C3 dB	TekBox Limiter TBFL1 Model 207	10 dB Pad	Corrected Reading dBUV	ICIS-001 Issue 5 Table 1	Margin (dB)	ICIS-001 Table 1 Issue 5 Qpk	Margin (dB)
1	.0139	68.72	Qp	.1	0	12.4	10	91.22	-	-	122	-30.78
2	.0618	42.49	Qp	.1	0	10.9	10	63.49	-	-	100.07	-36.58
3	.12945	24.07	Qp	.1	0	9.4	10	43.57	-	-	93.34	-49.77

Range 2: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	PRE018644 7 L1	LC Cables C1&C3 dB	TekBox Limiter TBFL1 Model 207	10 dB Pad	Corrected Reading dBUV	ICIS-001 Issue 5 Table 1	Margin (dB)	ICIS-001 Table 1 Issue 5 Qpk	Margin (dB)
5	.16013	2.72	Ca	0	0	9.4	10	22.12	61.46	-39.34	-	-
7	.74175	-3.88	Ca	0	0	9.3	10	15.42	46	-30.58	-	-
9	13.71525	6.05	Ca	.1	.2	9.3	10	25.65	50	-24.35	-	-
4	.15225	30.27	Qp	.1	0	9.4	10	49.77	-	-	71.88	-22.11
6	.74063	5.06	Qp	0	0	9.3	10	24.36	-	-	56	-31.64
8	13.71525	8	Qp	.1	.2	9.3	10	27.6	-	-	60	-32.4

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

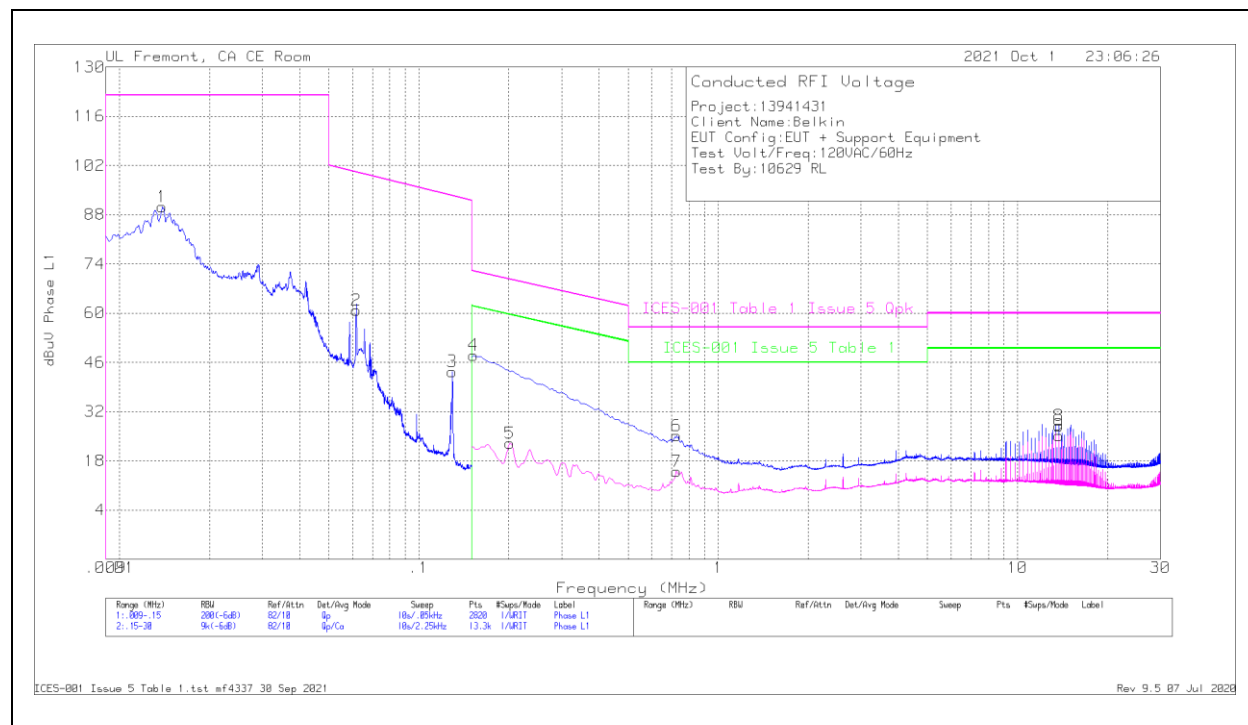
Range 3: Phase L2 .009 - .15MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 7 L2	LC Cables C2&C3 dB	TekBox Limiter TBFL1 Model 207	10 dB Pad	Corrected Reading dBuV	ICES-001 Issue 5 Table 1	Margin (dB)	ICES-001 Table 1 Issue 5 Qpk	Margin (dB)
10	.0151	57.2	Qp	0	0	12.3	10	79.5	-	-	122	-42.5
11	.0658	43.73	Qp	0	0	10.8	10	64.53	-	-	99.5	-34.97
12	.1295	24.11	Qp	0	0	9.4	10	43.51	-	-	93.34	-49.83

Range 4: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 7 L2	LC Cables C2&C3 dB	TekBox Limiter TBFL1 Model 207	10 dB Pad	Corrected Reading dBuV	ICES-001 Issue 5 Table 1	Margin (dB)	ICES-001 Table 1 Issue 5 Qpk	Margin (dB)
14	.159	2.66	Ca	0	0	9.4	10	22.06	61.52	-39.46	-	-
16	.80925	-4.25	Ca	0	.1	9.3	10	15.15	46	-30.85	-	-
18	13.71525	3.79	Ca	.1	.2	9.3	10	23.39	50	-26.61	-	-
13	.15225	28.1	Qp	0	0	9.4	10	47.5	-	-	71.88	-24.38
15	.8115	1.4	Qp	0	.1	9.3	10	20.8	-	-	56	-35.2
17	13.71525	6.01	Qp	.1	.2	9.3	10	25.61	-	-	60	-34.39

Qp - Quasi-Peak detector
Ca - CISPR average detection

9.3. CONFIGURATION 3: FLATBED ORIENTATION OPERATING MODE WITH Apple Watch

LINE 1 RESULTS



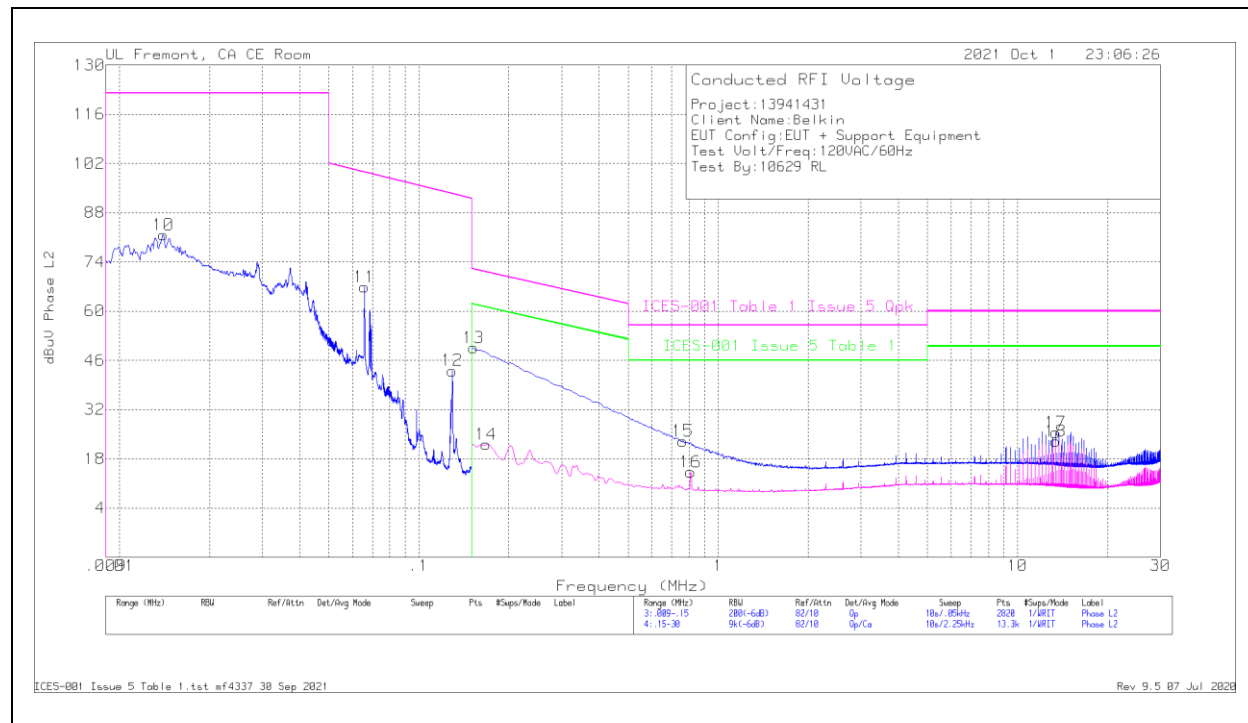
WORST EMISSIONS

Range 1: Phase L1 .009 - .15MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE0186447 L1	LC Cables C1&C3 dB	TekBox Limiter TBFL1 Model 207	10 dB Pad	Corrected Reading dBuV	ICES-001 Issue 5 Table 1	Margin (dB)	ICES-001 Table 1 Issue 5 Qpk	Margin (dB)
1	.0139	67.69	Qp	.1	0	12.4	10	90.19	-	-	122	-31.81
2	.0619	39.87	Qp	.1	0	10.9	10	60.87	-	-	100.06	-39.19
3	.1295	23.93	Qp	.1	0	9.4	10	43.43	-	-	93.34	-49.91

Range 2: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE0186447 L1	LC Cables C1&C3 dB	TekBox Limiter TBFL1 Model 207	10 dB Pad	Corrected Reading dBuV	ICES-001 Issue 5 Table 1	Margin (dB)	ICES-001 Table 1 Issue 5 Qpk	Margin (dB)
5	.20175	3.64	Ca	0	0	9.3	10	22.94	59.54	-36.6	-	-
7	.726	-4.26	Ca	0	0	9.3	10	15.04	46	-30.96	-	-
9	13.71525	5.64	Ca	.1	.2	9.3	10	25.24	50	-24.76	-	-
4	.15225	28.57	Qp	.1	0	9.4	10	48.07	-	-	71.88	-23.81
6	.726	5.81	Qp	0	0	9.3	10	25.11	-	-	56	-30.89
8	13.71525	8.32	Qp	.1	.2	9.3	10	27.92	-	-	60	-32.08

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 3: Phase L2 .009 - .15MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE0186447 L2	LC Cables C2&C3 dB	TekBox Limiter TBFL1 Model 207	10 dB Pad	Corrected Reading dBuV	ICES-001 Issue 5 Table 1	Margin (dB)	ICES-001 Table 1 Issue 5 Qpk	Margin (dB)
10	.014	59.29	Qp	0	0	12.4	10	81.69	-	-	122	-40.31
11	.06585	46.02	Qp	0	0	10.8	10	66.82	-	-	99.49	-32.67
12	.1295	23.68	Qp	0	0	9.4	10	43.08	-	-	93.34	-50.26

Range 4: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE0186447 L2	LC Cables C2&C3 dB	TekBox Limiter TBFL1 Model 207	10 dB Pad	Corrected Reading dBuV	ICES-001 Issue 5 Table 1	Margin (dB)	ICES-001 Table 1 Issue 5 Qpk	Margin (dB)
14	.168	2.79	Ca	0	0	9.4	10	22.19	61.06	-38.87	-	-
16	.80925	-5.08	Ca	0	.1	9.3	10	14.32	46	-31.68	-	-
18	13.38675	3.35	Ca	.1	.2	9.3	10	22.95	50	-27.05	-	-
13	.15225	30.11	Qp	0	0	9.4	10	49.51	-	-	71.88	-22.37
15	.762	3.79	Qp	0	0	9.3	10	23.09	-	-	56	-32.91
17	13.38675	5.89	Qp	.1	.2	9.3	10	25.49	-	-	60	-34.51

Qp - Quasi-Peak detector
Ca - CISPR average detection

10. DESCRIPTION OF TEST SETUP AND SETUP PHOTOS

Please refer to 13941431-EP1 (FCC) and 13941431-EP2 (ISED) for description of test up and setup photo.

END OF TEST REPORT