

# TEST REPORT

**Report Number. :** 15259435-E1V1

**Applicant :** BELKIN INTERNATIONAL, INC.  
555 S. AVIATION BLVD., SUITE 180  
EL SEGUNDO, CA 90245, USA

**Model :** WIZ024

**FCC ID :** K7SWIZ024

**EUT Description :** BoostCharge Pro 3-in-1 Magnetic Charging Travel Pad

**Test Standard(s) :** FCC 47 CFR PART 15 SUBPART C

**Date Of Issue:**

2024-08-21

**Prepared by:**

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	2024-08-21	Initial Issue	---

## TABLE OF CONTENTS

<b>1. ATTESTATION OF TEST RESULTS .....</b>	<b>5</b>
<b>2. TEST METHODOLOGY .....</b>	<b>7</b>
<b>3. FACILITIES AND ACCREDITATION .....</b>	<b>7</b>
<b>4. DECISION RULES AND MEASUREMENT UNCERTAINTY .....</b>	<b>8</b>
4.1. METROLOGICAL TRACEABILITY .....	8
4.2. DECISION RULES.....	8
4.3. MEASUREMENT UNCERTAINTY.....	8
<b>5. EQUIPMENT UNDER TEST .....</b>	<b>9</b>
5.1. DESCRIPTION OF EUT .....	9
5.2. MAXIMUM E-FIELD STRENGTH .....	9
5.3. SOFTWARE AND FIRMWARE.....	9
5.4. WORST-CASE CONFIGURATION.....	10
<b>6. TEST AND MEASUREMENT EQUIPMENT .....</b>	<b>11</b>
<b>7. OCCUPIED BANDWIDTH .....</b>	<b>12</b>
<b>8. RADIATED EMISSION TEST RESULTS .....</b>	<b>15</b>
8.1. LIMITS AND PROCEDURE.....	15
8.2. FCC TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz... 16	
8.2.1. CONFIGURATION 1: WPT ON STANDBY .....	16
8.2.2. CONFIGURATION 2: OPERATING MODE WITH iPhone (360kHz) .....	17
8.2.3. CONFIGURATION 3: OPERATING MODE WITH iPhone (127.7kHz) .....	18
8.2.4. CONFIGURATION 4: OPERATING MODE WITH AirPods Pro Case (127.7kHz) 19	
8.2.5. CONFIGURATION 5: OPERATING MODE WITH iPhone (111-148kHz) .....	20
8.2.6. CONFIGURATION 6: OPERATING MODE WITH AirPods Pro Case (111-148kHz)	21
8.2.7. CONFIGURATION 7: OPERATING MODE WITH Watch (326.5kHz) .....	22
8.2.8. CONFIGURATION 8: OPERATING MODE WITH Watch (1.778MHz) .....	23
8.2.9. CONFIGURATION 9: OPERATING MODE WITH iPhone (360kHz) + iPhone (111-148kHz) + Watch (1.778MHz).....	24
8.3. FCC TX SPURIOUS EMISSION 30 TO 1000 MHz .....	25
8.3.1. CONFIGURATION 1: WPT ON STANDBY .....	25
8.3.2. CONFIGURATION 9: OPERATING MODE WITH iPhone (360kHz) + iPhone (111-148kHz) + Watch (1.778MHz).....	27
<b>9. AC MAINS LINE CONDUCTED EMISSIONS.....</b>	<b>29</b>
9.1. CONFIGURATION 1: WPT ON STANDBY.....	30
9.2. CONFIGURATION 9: OPERATING MODE WITH iPhone (360kHz) + iPhone (111-148kHz) + Watch (1.778MHz) .....	32

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**10. DESCRIPTION OF TEST SETUP AND SETUP PHOTOS .....34**

# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** BELKIN INTERNATIONAL, INC.  
555 S. AVIATION BLVD., SUITE 180  
EL SEGUNDO, CA 90245, USA

**EUT DESCRIPTION:** BoostCharge Pro 3-in-1 Magnetic Charging Travel Pad

**MODEL NUMBER:** WIZ024

**BRAND:** belkin

**SERIAL NUMBER:** Proto 1

**SAMPLE RECEIPT DATE:** 2024-07-09 and 2024-07-25

**DATE TESTED:** 2024-07-15 TO 2024-08-07

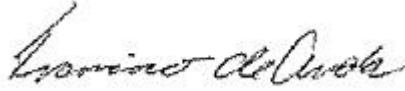
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Complies

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 For  
UL Verification Services Inc. By:



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Francisco de Anda  
Staff Engineer  
Consumer Technology Division  
UL Verification Services Inc.

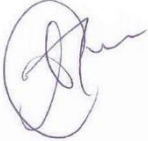
Prepared By:



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Benjamin Dobbins  
Senior Test Engineer  
Consumer Technology Division  
UL Verification Services Inc.

Reviewed By:



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Tina Chu  
Senior Project Engineer  
Consumer Technology Division  
UL Verification Services Inc.

## 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 correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

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

## 3. FACILITIES AND ACCREDITATION

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

	Address	ISED CABID	ISED Company Number	FCC Registration
<input type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
<input type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			

## 4. DECISION RULES AND MEASUREMENT UNCERTAINTY

### 4.1. METROLOGICAL TRACEABILITY

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

### 4.2. DECISION RULES

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

### 4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	U <sub>Lab</sub>
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%.



## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The EUT, BoostCharge Pro 3-in-1 Magnetic Charging Travel Pad, is a three-coil wireless charger containing a Qi2 MPP/BPP 15W module, a 5W BPP coil, and an adjustable angle Apple Watch charging module. The EUT can inductively charge three client devices at the same time.

The first coil is used for charging a Qi2 compatible device at 360kHz (15W max), a Qi compatible device at 127.7kHz (7.5W max), and an AirPods case at 127.7kHz (1W max). The second coil is used for charging a Qi BPP compatible device at 111-148kHz (5W Max). The third coil is used for charging an Apple Watch at 326.5kHz or 1.778MHz (5W Max).

The EUT receives power through a USB-C to USB-C cable connected to a bundled 36W USB-C PD AC/DC adapter.

### 5.2. MAXIMUM E-FIELD STRENGTH

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

Fundamental Frequency (kHz)	E field (300m distance) FCC (dBuV/m)
Standby	Coil#1 127.7kHz: -12.64 Coil#3 326.5kHz: <b>-24.05</b>
360 (Coil#1, iPhone 12/15, max15W)	-27.91
127.7 (Coil#1, Legacy iPhone, max 7.5W)	-16.26
127.7 (Coil#1, AirPods Case, max 1W)	<b>-5.51</b>
111 to 148 (Coil#2, Legacy iPhone, max 7.5; note Coil#2 is max 5W only)	-7.69
111 to 148 (Coil#2 coil, AirPods Pro Case, max 1W)	-3.09
326.5 (Coil#3, Legacy Watch series, max 2.5W)	-28.09
Config 9 (All coils active)	Coil#1 360kHz: <b>-22.48</b> Coil#2 111-148kHz: <b>-2.88</b>
Fundamental Frequency (kHz)	E field (30m distance) FCC (dBuV/m)
1778 (Coil#3, New Watch series, max 5W)	3.2
Config 9 (All coils active)	Coil#3 1778kHz: <b>10.61</b>

### 5.3. SOFTWARE AND FIRMWARE

The firmware version installed in the EUT during testing was:

Coil#1: 360kHz/127.7kHz: V0.30

Coil#2: 111 to 148kHz: V3.01

Coil#3: 326.5kHz /1.778MHz: V2.0.3

### 5.4. WORST-CASE CONFIGURATION

Testing with the iPhone 12/15, Apple Watches, and AirPods Pro case is based on direct contact with no shifts in position due to the embedded magnets surrounding the coils in each of these client devices.

The legacy iPhone does not have an embedded magnet and is placed at the maximum power position during the testing.

For the entire radiated emissions test, the EUT was tested in desktop mode in the following configurations. The client devices were charging between 10% to 50% state of charge.

Radiated spurious emission 30MHz to 1GHz and AC conducted emissions were performed on Configuration 1 and 9 at EUT minimum and maximum loads as worst-case.

EUT is foldable, the coil 3 watch charging pad can be upright or flatbed positions, investigations have been performed on folded/unfolded or upright and flatbed positions. The following configurations were tested as worst-case:

Config	Descriptions	Frequency	Client and worst-case orientation
1	EUT stand alone, standby, powered by AC/DC adapter.	@127.7kHz @326.5kHz	No client present. On Standby. EUT is unfolded. 111kHz to 148kHz, 360kHz and 1.778MHz signals were not observed in stand-by mode.
2	Direct contact during charging/operating between the EUT & WPT Client, EUT is powered by AC/DC adapter.	@360kHz	1 <sup>st</sup> coil: iPhone12/15, 90 degrees when the lightning connector is facing to the right. EUT is unfolded.
3		@127.7kHz	1 <sup>st</sup> coil: Legacy iPhone, 90 degrees when the lightning connector is facing to the right. EUT is unfolded.
4		@127.7kHz	1 <sup>st</sup> coil: AirPods Pro Case, 180 degrees when the lightning connector is facing down (toward the user). EUT is upright at 90 degree angle between the 1 <sup>st</sup> and 3 <sup>rd</sup> coil.
5		@111kHz to 148kHz	2 <sup>nd</sup> coil: Legacy iPhone, 270 degrees when the lightning connector is facing to the left. EUT is unfolded.
6		@111kHz to 148kHz	2 <sup>nd</sup> coil: AirPods Pro Case, 270 degrees when the lightning connector is facing to the left. EUT is unfolded.
7		@326.5kHz	3 <sup>rd</sup> coil: Legacy Apple Watch, 270 degrees when the lightning connector is facing to the left. EUT's 1 <sup>st</sup> coil and 3 <sup>rd</sup> coil are folded into a cube shape. Charging pad at flatbed position.
8		@1.778MHz	3 <sup>rd</sup> coil: New Apple Watch, 180 degrees when the lightning connector is facing down (toward the user). EUT's 1 <sup>st</sup> coil and 3 <sup>rd</sup> coil are folded into a cube shape. Charging pad at flatbed position.
9		@360kHz @111kHz to 148kHz @ 1.778MHz	1 <sup>st</sup> coil: iPhone12/15, 90 degrees when the lightning connector is facing to the right. 2 <sup>nd</sup> coil: Legacy iPhone, 270 degrees when the lightning connector is facing to the left. Charging pad at flatbed position. 3 <sup>rd</sup> coil: New Apple Watch, 180 degrees when the lightning connector is facing down (toward the user). EUT is unfolded.

## 6. TEST AND MEASUREMENT EQUIPMENT

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

RADIATED EMISSIONS TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO METRICS	EM-6871	219908	2024-09-30	2023-09-13
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO METRICS	EM-6872	219910	2026-05-31	2024-05-15
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	203089	2025-04-30	2024-04-09
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	225688	2025-02-28	2024-02-11
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	175953	2025-03-31	2024-04-04
AC MAINS LINE CONDUCTED EMISSIONS TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
LISN	Fischer Custom Communications, Inc`	FCC-LISN-50/250-25-2-01-480V	175765	2025-01-31	2024-01-26
EMI TEST RECEIVER	Rohde & Schwarz	ESR	171646	2025-02-28	2024-02-27
Transient Limiter	TE	TBFL1	207996	2024-08-31	2023-08-10
UL AUTOMATION SOFTWARE					
Radiated Software	UL	UL EMC		Rev 9.5 2023-05-01	
AC Line Conducted Software	UL	UL EMC		Rev 9.5 2023-03-03	

## 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:	28199 JM
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Configuration	Frequency (kHz)	99% Bandwidth (Hz)
1 (Coil#1)	127.8	658.01
1(Coil#3)	326.5	652.71
2	360	689.83
3	127.8	665.60
4	127.8	660.44
5	129.2	653.84
6	147.2	665.40
7	326.5	662.59
8	1778	665.53

Configuration 1, Coil#2: N/A. No noticeable intended radiator



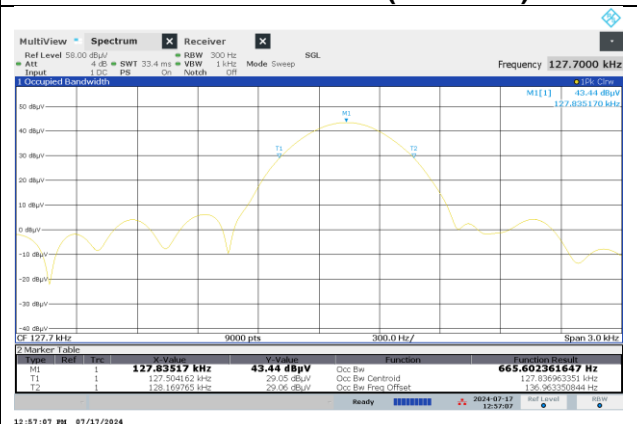
**CONFIGURATION 1 (127.7kHz)**



**CONFIGURATION 1 (326.5kHz)**



**CONFIGURATION 2 (360kHz)**



**CONFIGURATION 3 (127.7kHz)**



**CONFIGURATION 4 (127.7kHz)**



**CONFIGURATION 5 (111kHz - 148kHz)**



**CONFIGURATION 6 (111kHz – 148kHz)**



**CONFIGURATION 7 (326.5kHz)**



**CONFIGURATION 8 (1778kHz)**

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## 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.

#### 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

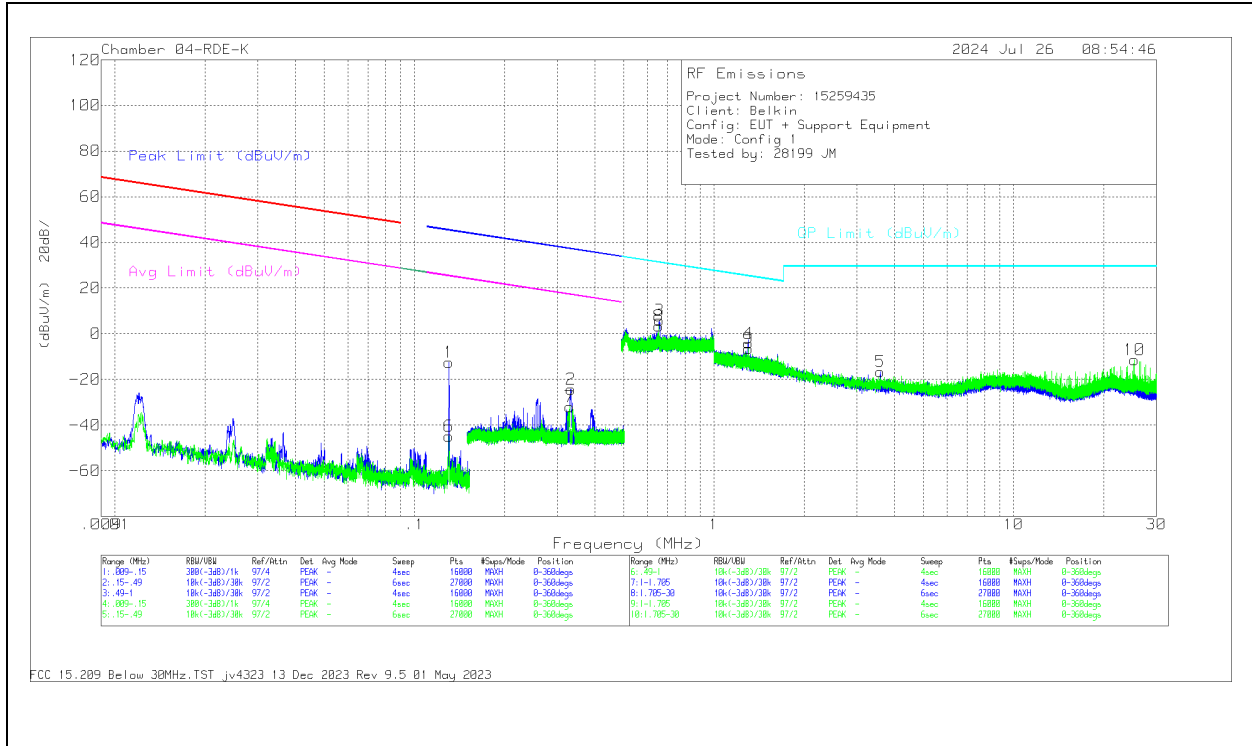
Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

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: WPT ON STANDBY**



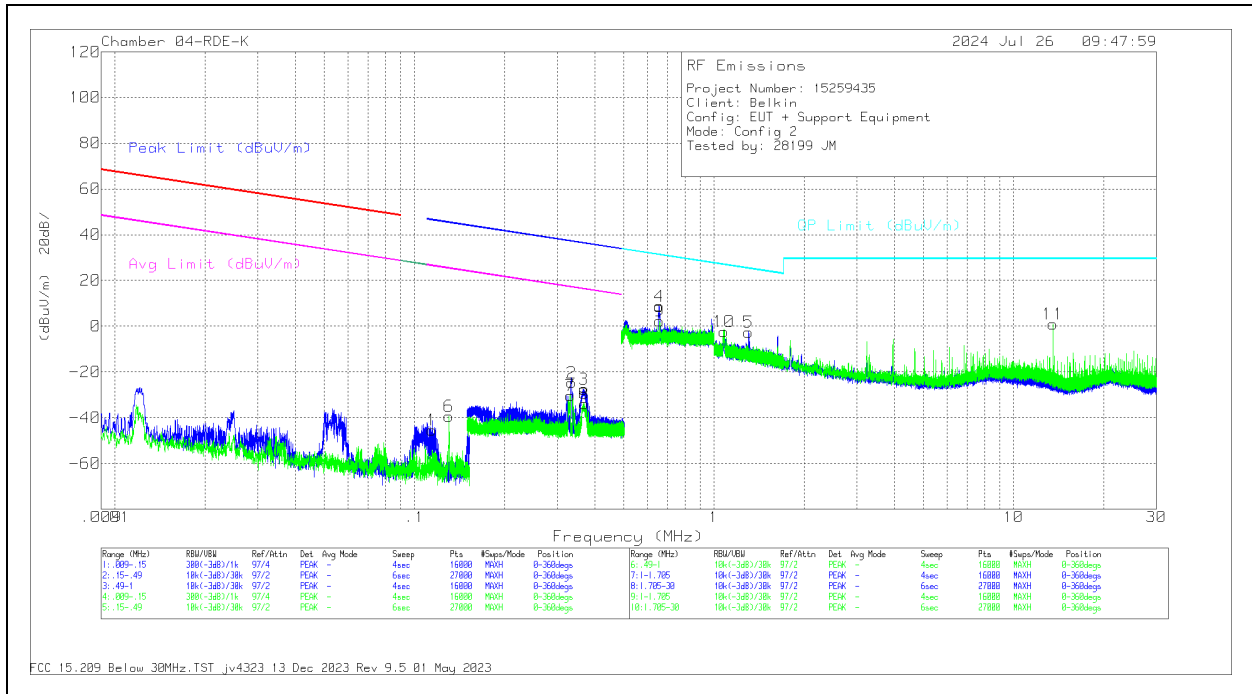
**DATA**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1278	43.86	Pk	55.8	-32.3	-80	-	-12.64	-	-	45.49	-58.13	25.49	-38.13	264	Face-On
2	.3261	31.85	Pk	56.2	-32.1	-80	-	-24.05	-	-	37.34	-61.39	17.34	-41.39	304	Face-On
3	.6586	21.59	Pk	56.4	-32.2	-	-40	5.79	31.24	-25.45	-	-	-	-	0-360	Face-On
4	1.3044	22.85	Pk	45.1	-32.1	-	-40	-4.15	25.32	-29.47	-	-	-	-	0-360	Face-On
5	3.5925	17.38	Pk	37.8	-31.9	-	-40	-16.72	29.5	-46.22	-	-	-	-	0-360	Face-On
6	.1278	27.23	Pk	55.8	-32.3	-80	-	-29.27	-	-	45.49	-74.76	25.49	-54.76	3	Face-Off
7	.3269	25.49	Pk	56.2	-32.1	-80	-	-30.41	-	-	37.32	-67.73	17.32	-47.73	40	Face-Off
8	.6538	19.17	Pk	56.4	-32.2	-	-40	3.37	31.3	-27.93	-	-	-	-	0-360	Face-Off
9	1.3045	20.49	Pk	45.1	-32.1	-	-40	-6.51	25.32	-31.83	-	-	-	-	0-360	Face-Off
10	25.3143	26.31	Pk	33.6	-31.4	-	-40	-11.49	29.5	-40.99	-	-	-	-	0-360	Face-Off

PK - Peak detector



### 8.2.2. CONFIGURATION 2: OPERATING MODE WITH iPhone (360kHz)



### DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1145	10.98	Pk	55.7	-32.2	-80	-	-45.52	-	-	46.45	-91.97	26.45	-71.97	0-360	Face-On
2	.3347	31.27	Pk	56.2	-32.2	-80	-	-24.73	-	-	37.12	-61.85	17.12	-41.85	0-360	Face-On
3	.3606	28.19	Pk	56.1	-32.2	-80	-	-27.91	-	-	36.47	-64.38	16.47	-44.38	251	Face-On
4	.656	24.64	Pk	56.2	-32.2	-	-40	8.64	31.27	-22.63	-	-	-	-	0-360	Face-On
5	1.3048	24.21	Pk	45.3	-32.1	-	-40	-2.59	25.32	-27.91	-	-	-	-	0-360	Face-On
6	1.1304	17.1	Pk	55.8	-32.2	-80	-	-39.3	-	-	45.32	-84.62	25.32	-64.62	0-360	Face-Off
7	.3311	25.61	Pk	56.2	-32.1	-80	-	-30.29	-	-	37.21	-67.5	17.21	-47.5	0-360	Face-Off
8	.3603	25.2	Pk	56.1	-32.2	-80	-	-30.9	-	-	36.48	-67.38	16.48	-47.38	167	Face-Off
9	.6574	18.32	Pk	56.2	-32.2	-	-40	2.32	31.25	-28.93	-	-	-	-	0-360	Face-Off
10	1.08	23.27	Pk	46.5	-32.1	-	-40	-2.33	26.95	-29.28	-	-	-	-	0-360	Face-Off
11	13.5621	38.34	Pk	34.1	-31.6	-	-40	.84	29.5	-28.66	-	-	-	-	0-360	Face-Off

Pk - Peak detector

### 8.2.3. CONFIGURATION 3: OPERATING MODE WITH iPhone (127.7kHz)

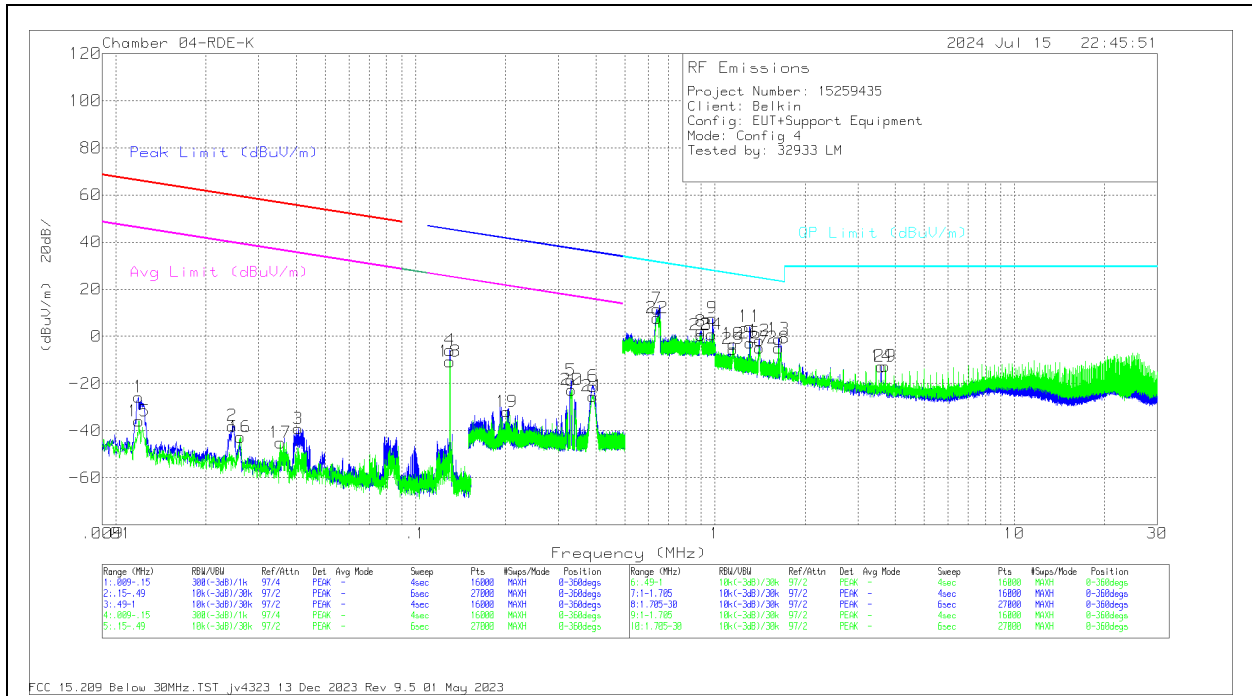


### DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.0123	24.82	Pk	60.1	-31.1	-80	-	-26.18	-	-	65.8	-91.98	45.8	-71.98	0-360	Face-On
2	.0247	15.78	Pk	58.6	-31.8	-80	-	-37.42	-	-	59.75	-97.17	39.75	-77.17	0-360	Face-On
3	.0591	21.97	Pk	56.3	-32.2	-80	-	-33.93	-	-	52.16	-86.09	32.16	-66.09	0-360	Face-On
4	.1278	40.24	Pk	55.8	-32.3	-80	-	-16.26	-	-	45.49	-61.75	25.49	-41.75	180	Face-On
5	.2584	25.95	Pk	56.2	-32.2	-80	-	-30.05	-	-	39.37	-69.42	19.37	-49.42	0-360	Face-On
6	.3309	34.22	Pk	56.2	-32.1	-80	-	-21.68	-	-	37.22	-58.9	17.22	-38.9	0-360	Face-On
7	.3924	23.52	Pk	56.2	-32.1	-80	-	-32.38	-	-	35.73	-68.11	15.73	-48.11	0-360	Face-On
8	.5123	20.5	Pk	56.2	-32.2	-	-40	4.5	33.42	-28.92	-	-	-	-	0-360	Face-On
9	.6573	21.05	Pk	56.4	-32.2	-	-40	5.25	31.26	-26.01	-	-	-	-	0-360	Face-On
10	1.1522	21.95	Pk	45.9	-32.1	-	-40	-4.25	26.39	-30.64	-	-	-	-	0-360	Face-On
11	1.4063	22.07	Pk	44.6	-32.1	-	-40	-5.43	24.67	-30.1	-	-	-	-	0-360	Face-On
12	1.5365	20.12	Pk	43.9	-31.9	-	-40	-7.88	23.9	-31.78	-	-	-	-	0-360	Face-On
13	1.6367	22.64	Pk	43.4	-32	-	-40	-5.96	23.35	-29.31	-	-	-	-	0-360	Face-On
14	19.8144	26.88	Pk	34.5	-31.5	-	-40	-10.12	29.5	-39.62	-	-	-	-	0-360	Face-On
15	.012	13.1	Pk	60.1	-31.1	-80	-	-37.9	-	-	65.97	-103.87	45.97	-83.87	0-360	Face-Off
16	.0259	9.65	Pk	58.5	-31.8	-80	-	-43.65	-	-	59.32	-102.97	39.32	-82.97	0-360	Face-Off
17	.0644	16.8	Pk	56.1	-32.2	-80	-	-39.3	-	-	51.41	-90.71	31.41	-70.71	0-360	Face-Off
18	.1278	36.19	Pk	55.8	-32.3	-80	-	-20.31	-	-	45.49	-65.8	25.49	-45.8	258	Face-Off
19	.2578	25.73	Pk	56.2	-32.2	-80	-	-30.27	-	-	39.39	-69.66	19.39	-49.66	0-360	Face-Off
20	.3335	25.15	Pk	56.2	-32.2	-80	-	-30.85	-	-	37.15	-68	17.15	-48	0-360	Face-Off
21	.3911	20.78	Pk	56.2	-32.1	-80	-	-35.12	-	-	35.76	-70.88	15.76	-50.88	0-360	Face-Off
22	.5136	18.09	Pk	56.2	-32.2	-	-40	2.09	33.39	-31.3	-	-	-	-	0-360	Face-Off
23	.6537	16.82	Pk	56.4	-32.2	-	-40	1.02	31.3	-30.28	-	-	-	-	0-360	Face-Off
24	1.1524	21.24	Pk	45.9	-32.1	-	-40	-4.96	26.39	-31.35	-	-	-	-	0-360	Face-Off
25	1.4073	20.24	Pk	44.6	-32.1	-	-40	-7.26	24.66	-31.92	-	-	-	-	0-360	Face-Off
26	1.6626	18.93	Pk	43.3	-32.1	-	-40	-9.87	23.22	-33.09	-	-	-	-	0-360	Face-Off
27	16.6191	30.55	Pk	34.1	-31.6	-	-40	-6.95	29.5	-36.45	-	-	-	-	0-360	Face-Off

Pk - Peak detector

### 8.2.4. CONFIGURATION 4: OPERATING MODE WITH AirPods Pro Case (127.7kHz)



### DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.0119	25.14	Pk	60.2	-31.1	-80	-	-25.76	-	-	66.08	-91.84	46.08	-71.84	0-360	Face-On
2	.0245	15.26	Pk	58.6	-31.8	-80	-	-37.94	-	-	59.81	-97.75	39.81	-77.75	0-360	Face-On
3	.0407	15.93	Pk	57.3	-32.4	-80	-	-39.17	-	-	55.4	-94.57	35.4	-74.57	0-360	Face-On
4	.1278	50.99	Pk	55.8	-32.3	-80	-	-5.51	-	-	45.49	-51	25.49	-31	87	Face-On
5	.3305	37.29	Pk	56.2	-32.1	-80	-	-18.61	-	-	37.23	-55.84	17.23	-35.84	0-360	Face-On
6	.3924	34.75	Pk	56.2	-32.1	-80	-	-21.15	-	-	35.73	-56.88	15.73	-36.88	0-360	Face-On
7	.6405	27.5	Pk	56.3	-32.2	-	-40	11.6	31.48	-19.88	-	-	-	-	0-360	Face-On
8	.8993	17.83	Pk	56.5	-32.1	-	-40	2.23	28.54	-26.31	-	-	-	-	0-360	Face-On
9	.9819	23.09	Pk	56.6	-32	-	-40	7.69	27.78	-20.09	-	-	-	-	0-360	Face-On
10	1.1495	22.92	Pk	45.9	-32.1	-	-40	-3.28	26.41	-29.69	-	-	-	-	0-360	Face-On
11	1.306	31.17	Pk	45.1	-32.1	-	-40	4.17	25.31	-21.14	-	-	-	-	0-360	Face-On
12	1.4079	25.67	Pk	44.6	-32.1	-	-40	-1.83	24.66	-26.49	-	-	-	-	0-360	Face-On
13	1.6317	27.41	Pk	43.4	-32	-	-40	-1.19	23.38	-24.57	-	-	-	-	0-360	Face-On
14	3.5914	21.3	Pk	37.8	-31.9	-	-40	-12.8	29.5	-42.3	-	-	-	-	0-360	Face-On
15	.0119	15.01	Pk	60.1	-31.1	-80	-	-35.99	-	-	66.05	-102.04	46.05	-82.04	0-360	Face-Off
16	.026	10.7	Pk	58.4	-31.8	-80	-	-42.7	-	-	59.29	-101.99	39.29	-81.99	0-360	Face-Off
17	.0354	9.51	Pk	57.6	-32.2	-80	-	-45.09	-	-	56.61	-101.7	36.61	-81.7	0-360	Face-Off
18	.1278	47.21	Pk	55.8	-32.3	-80	-	-9.29	-	-	45.49	-54.78	25.49	-34.78	348	Face-Off
19	.2019	23.84	Pk	56.3	-32.1	-80	-	-31.96	-	-	41.52	-73.48	21.52	-53.48	0-360	Face-Off
20	.3327	33.19	Pk	56.2	-32.1	-80	-	-22.71	-	-	37.17	-59.88	17.17	-39.88	0-360	Face-Off
21	.3911	30.5	Pk	56.2	-32.1	-80	-	-25.4	-	-	35.76	-61.16	15.76	-41.16	0-360	Face-Off
22	.6417	23.65	Pk	56.3	-32.2	-	-40	7.75	31.46	-23.71	-	-	-	-	0-360	Face-Off
23	.8971	16.16	Pk	56.5	-32.1	-	-40	.56	28.56	-28	-	-	-	-	0-360	Face-Off
24	.9751	16.21	Pk	56.6	-32	-	-40	.81	27.84	-27.03	-	-	-	-	0-360	Face-Off
25	1.1517	20.83	Pk	45.9	-32.1	-	-40	-5.37	26.4	-31.77	-	-	-	-	0-360	Face-Off
26	1.3111	24.05	Pk	45.1	-32	-	-40	-2.85	25.28	-28.13	-	-	-	-	0-360	Face-Off
27	1.4091	22.68	Pk	44.6	-32.1	-	-40	-4.82	24.65	-29.47	-	-	-	-	0-360	Face-Off
28	1.6316	23.65	Pk	43.4	-32	-	-40	-4.95	23.38	-28.33	-	-	-	-	0-360	Face-Off
29	3.7077	21.74	Pk	37.6	-32	-	-40	-12.66	29.5	-42.16	-	-	-	-	0-360	Face-Off

Pk - Peak detector

### 8.2.5. CONFIGURATION 5: OPERATING MODE WITH iPhone (111-148kHz)

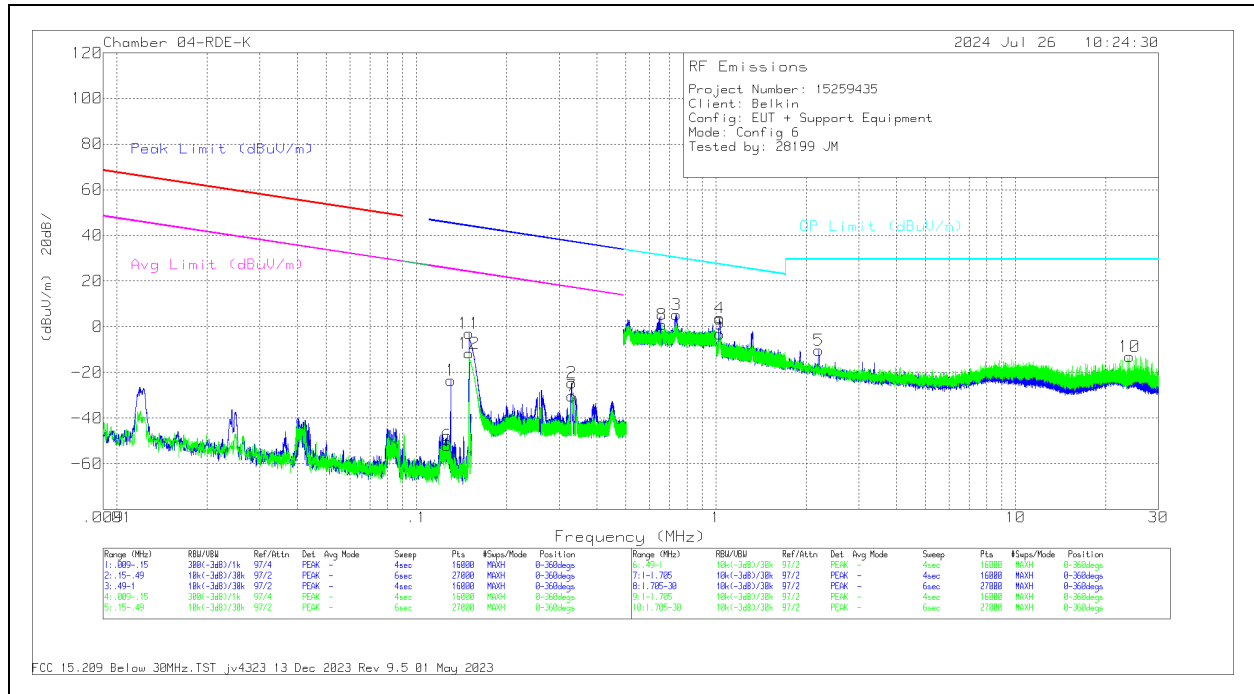


### DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.0121	26.37	Pk	60.1	-31.1	-80	-	-24.63	-	-	65.91	-90.54	45.91	-70.54	0-360	Face-On
2	.0243	16.24	Pk	58.6	-31.8	-80	-	-36.96	-	-	59.88	-96.84	39.88	-76.84	0-360	Face-On
3	.0423	15.84	Pk	57.3	-32.3	-80	-	-39.16	-	-	55.06	-94.22	35.06	-74.22	0-360	Face-On
4	.1243	48.81	Pk	55.8	-32.3	-80	-	-7.69	-	-	45.74	-53.43	25.74	-33.43	218	Face-On
5	.1395	47.13	Pk	55.9	-32.1	-80	-	-9.07	-	-	44.74	-53.81	24.74	-33.81	0-360	Face-On
6	.1472	40.24	Pk	55.9	-32.2	-80	-	-16.06	-	-	44.26	-60.32	24.26	-40.32	0-360	Face-On
7	.1532	28.63	Pk	56	-32.3	-80	-	-27.67	-	-	43.92	-71.59	23.92	-51.59	0-360	Face-On
8	.2573	30.38	Pk	56.2	-32.2	-80	-	-25.62	-	-	39.4	-65.02	19.4	-45.02	0-360	Face-On
9	.3323	33.44	Pk	56.2	-32.1	-80	-	-22.46	-	-	37.18	-59.64	17.18	-39.64	0-360	Face-On
10	.3792	29.92	Pk	56.2	-32.1	-80	-	-25.98	-	-	36.03	-62.01	16.03	-42.01	0-360	Face-On
11	.5128	23.94	Pk	56.2	-32.2	-	-40	7.94	33.41	-25.47	-	-	-	-	0-360	Face-On
12	.6215	21.75	Pk	56.3	-32.2	-	-40	5.85	31.74	-25.89	-	-	-	-	0-360	Face-On
13	.6521	23.58	Pk	56.4	-32.2	-	-40	7.78	31.32	-23.54	-	-	-	-	0-360	Face-On
14	1.0184	28.03	Pk	46.6	-32.1	-	-40	2.53	27.46	-24.93	-	-	-	-	0-360	Face-On
15	1.1194	23.24	Pk	46.1	-32.1	-	-40	-2.76	26.64	-29.4	-	-	-	-	0-360	Face-On
16	1.3089	23.71	Pk	45.1	-32	-	-40	-3.19	25.29	-28.48	-	-	-	-	0-360	Face-On
17	.0122	13.8	Pk	60.1	-31.1	-80	-	-37.2	-	-	65.83	-103.03	45.83	-83.03	0-360	Face-Off
18	.0261	10.94	Pk	58.4	-31.8	-80	-	-42.46	-	-	59.26	-101.72	39.26	-81.72	0-360	Face-Off
19	.0482	14.97	Pk	57.1	-32.2	-80	-	-40.13	-	-	53.92	-94.05	33.92	-74.05	0-360	Face-Off
20	.1235	44.82	Pk	55.8	-32.3	-80	-	-11.68	-	-	45.79	-57.47	25.79	-37.47	136	Face-Off
21	.1304	31.51	Pk	55.8	-32.2	-80	-	-24.89	-	-	45.32	-70.21	25.32	-50.21	0-360	Face-Off
22	.2595	21.8	Pk	56.2	-32.2	-80	-	-34.2	-	-	39.33	-73.53	19.33	-53.53	0-360	Face-Off
23	.3369	23.74	Pk	56.2	-32.2	-80	-	-32.26	-	-	37.06	-69.32	17.06	-49.32	0-360	Face-Off
24	.3807	27.49	Pk	56.2	-32.1	-80	-	-28.41	-	-	36	-64.41	16	-44.41	0-360	Face-Off
25	.6189	19.69	Pk	56.3	-32.2	-	-40	3.79	31.78	-27.99	-	-	-	-	0-360	Face-Off
26	.6539	19.06	Pk	56.4	-32.2	-	-40	3.26	31.3	-28.04	-	-	-	-	0-360	Face-Off
27	.8699	16.34	Pk	56.5	-32.1	-	-40	.74	28.83	-28.09	-	-	-	-	0-360	Face-Off
28	1.1115	20.52	Pk	46.1	-32.1	-	-40	-5.48	26.71	-32.19	-	-	-	-	0-360	Face-Off
29	1.3623	20.29	Pk	44.8	-32	-	-40	-6.91	24.94	-31.85	-	-	-	-	0-360	Face-Off

Pk - Peak detector

### 8.2.6. CONFIGURATION 6: OPERATING MODE WITH AirPods Pro Case (111-148kHz)

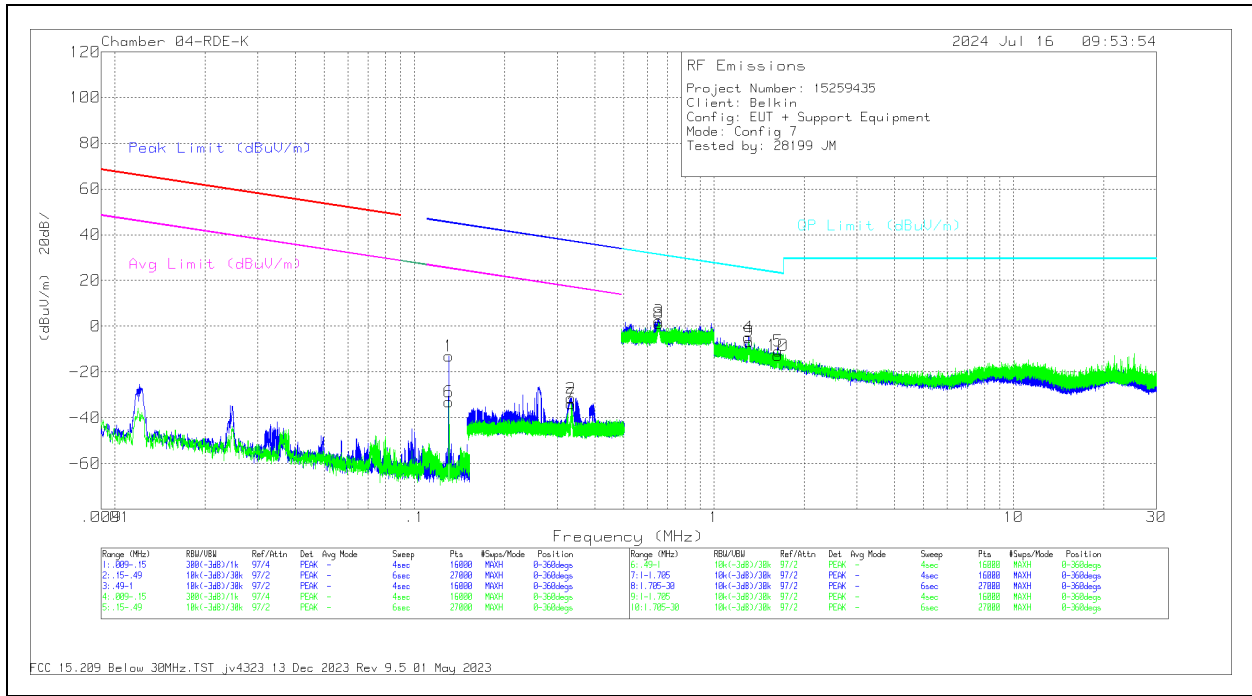


#### DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1469	53.21	Pk	55.9	-32.2	-80	-	-3.09	-	-	44.28	-47.37	24.28	-27.37	53	Face-On
2	.3301	31.32	Pk	56.2	-32.1	-80	-	-24.58	-	-	37.24	-61.82	17.24	-41.82	0-360	Face-On
3	.7366	21.25	Pk	56.2	-32.2	-40	-40	5.25	30.27	-25.02	-	-	-	-	0-360	Face-On
4	1.0289	29.22	Pk	46.7	-32.1	-40	-40	3.82	27.37	-23.55	-	-	-	-	0-360	Face-On
5	2.2018	20.51	Pk	41.1	-31.9	-40	-40	-10.29	29.5	-39.79	-	-	-	-	0-360	Face-On
6	.1469	44.35	Pk	55.9	-32.2	-80	-	-11.95	-	-	44.28	-56.23	24.28	-36.23	129	Face-Off
7	.3307	25.53	Pk	56.2	-32.1	-80	-	-30.37	-	-	37.22	-67.59	17.22	-47.59	0-360	Face-Off
8	.6592	16.95	Pk	56.2	-32.2	-40	-40	.95	31.23	-30.28	-	-	-	-	0-360	Face-Off
9	1.0301	22.25	Pk	46.7	-32.1	-40	-40	-3.15	27.36	-30.51	-	-	-	-	0-360	Face-Off
10	24.0368	24.82	Pk	33.5	-31.4	-40	-40	-13.08	29.5	-42.58	-	-	-	-	0-360	Face-Off
11	.1499	53.56	Pk	55.9	-32.3	-80	-	-2.84	-	-	44.11	-46.95	24.11	-26.95	0-360	Face-On
12	.1499	44.83	Pk	55.9	-32.3	-80	-	-11.57	-	-	44.11	-55.68	24.11	-35.68	0-360	Face-Off

Pk - Peak detector

### 8.2.7. CONFIGURATION 7: OPERATING MODE WITH Watch (326.5kHz)

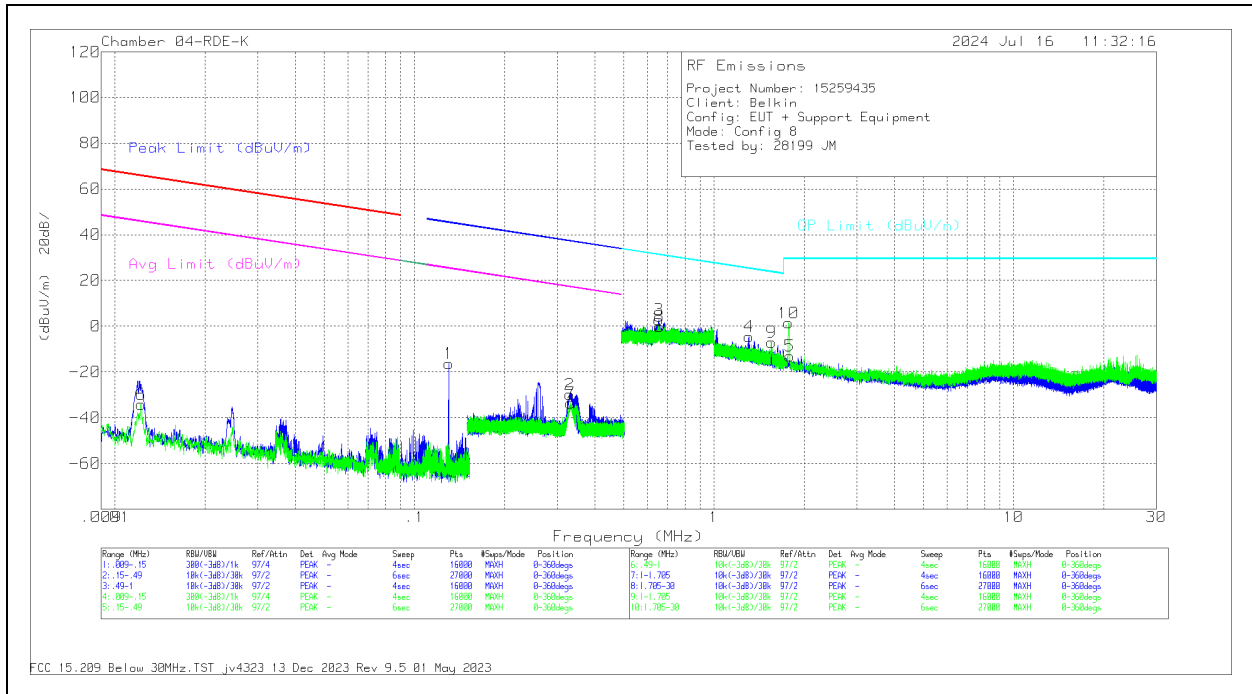


### DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1302	43.35	Pk	55.8	-32.2	-80	-	-13.05	-	-	45.33	-58.38	25.33	-38.38	0-360	Face-On
2	.3257	27.56	Pk	56.2	-32.1	-80	-	-28.34	-	-	37.35	-65.69	17.35	-45.69	50	Face-On
3	.6548	18.14	Pk	56.4	-32.2	-	-40	2.34	31.29	-28.95	-	-	-	-	0-360	Face-On
4	1.3056	22.17	Pk	45.1	-32.1	-	-40	-4.83	25.31	-30.14	-	-	-	-	0-360	Face-On
5	1.6381	17.79	Pk	43.4	-32	-	-40	-10.81	23.35	-34.16	-	-	-	-	0-360	Face-On
6	.1304	23.28	Pk	55.8	-32.2	-80	-	-33.12	-	-	45.32	-78.44	25.32	-58.44	0-360	Face-Off
7	.3283	27.81	Pk	56.2	-32.1	-80	-	-28.09	-	-	37.29	-65.38	17.29	-45.38	324	Face-Off
8	.6557	17.12	Pk	56.4	-32.2	-	-40	1.32	31.28	-29.96	-	-	-	-	0-360	Face-Off
9	1.3069	20.31	Pk	45.1	-32.1	-	-40	-6.69	25.3	-31.99	-	-	-	-	0-360	Face-Off
10	1.6365	15.91	Pk	43.4	-32	-	-40	-12.69	23.36	-36.05	-	-	-	-	0-360	Face-Off

Pk - Peak detector

### 8.2.8. CONFIGURATION 8: OPERATING MODE WITH Watch (1.778MHz)

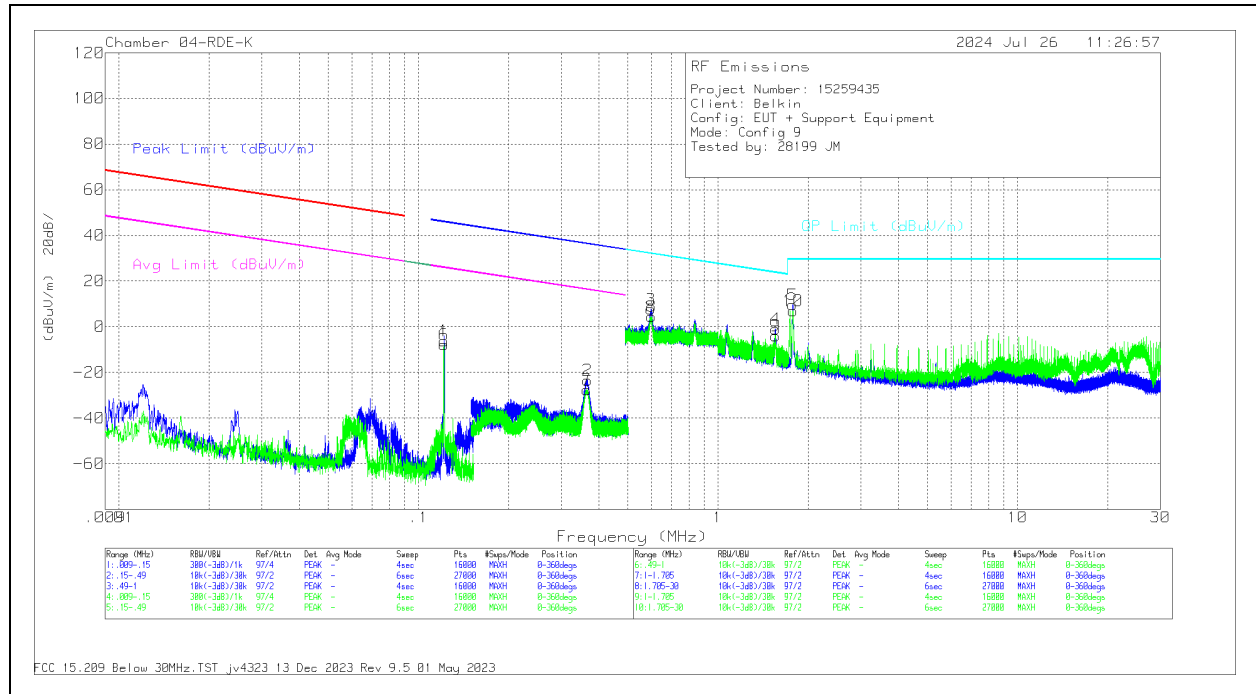


### DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1302	40.01	Pk	55.8	-32.2	-80	-	-16.39	-	-	45.33	-61.72	25.33	-41.72	0-360	Face-On
2	.3304	25.99	Pk	56.2	-32.1	-80	-	-29.91	-	-	37.23	-67.14	17.23	-47.14	0-360	Face-On
3	.6546	18.72	Pk	56.4	-32.2	-	-40	2.92	31.29	-28.37	-	-	-	-	0-360	Face-On
4	1.3072	22.38	Pk	45.1	-32	-	-40	-4.52	25.3	-29.82	-	-	-	-	0-360	Face-On
5	1.7767	32.5	Pk	42.7	-32	-	-40	3.2	29.5	-26.3	-	-	-	-	1	Face-On
6	.0122	16.92	Pk	60.1	-31.1	-80	-	-34.08	-	-	65.85	-99.93	45.85	-79.93	0-360	Face-Off
7	.3321	22.19	Pk	56.2	-32.1	-80	-	-33.71	-	-	37.18	-70.89	17.18	-50.89	0-360	Face-Off
8	.6568	15.55	Pk	56.4	-32.2	-	-40	-2.5	31.26	-31.51	-	-	-	-	0-360	Face-Off
9	1.5544	21.01	Pk	43.8	-31.9	-	-40	-7.09	23.8	-30.89	-	-	-	-	0-360	Face-Off
10	1.7779	29.75	Pk	42.7	-32	-	-40	.45	29.5	-29.05	-	-	-	-	245	Face-Off

Pk - Peak detector

### 8.2.9. CONFIGURATION 9: OPERATING MODE WITH iPhone (360kHz) + iPhone (111-148kHz) + Watch (1.778MHz)



#### DATA

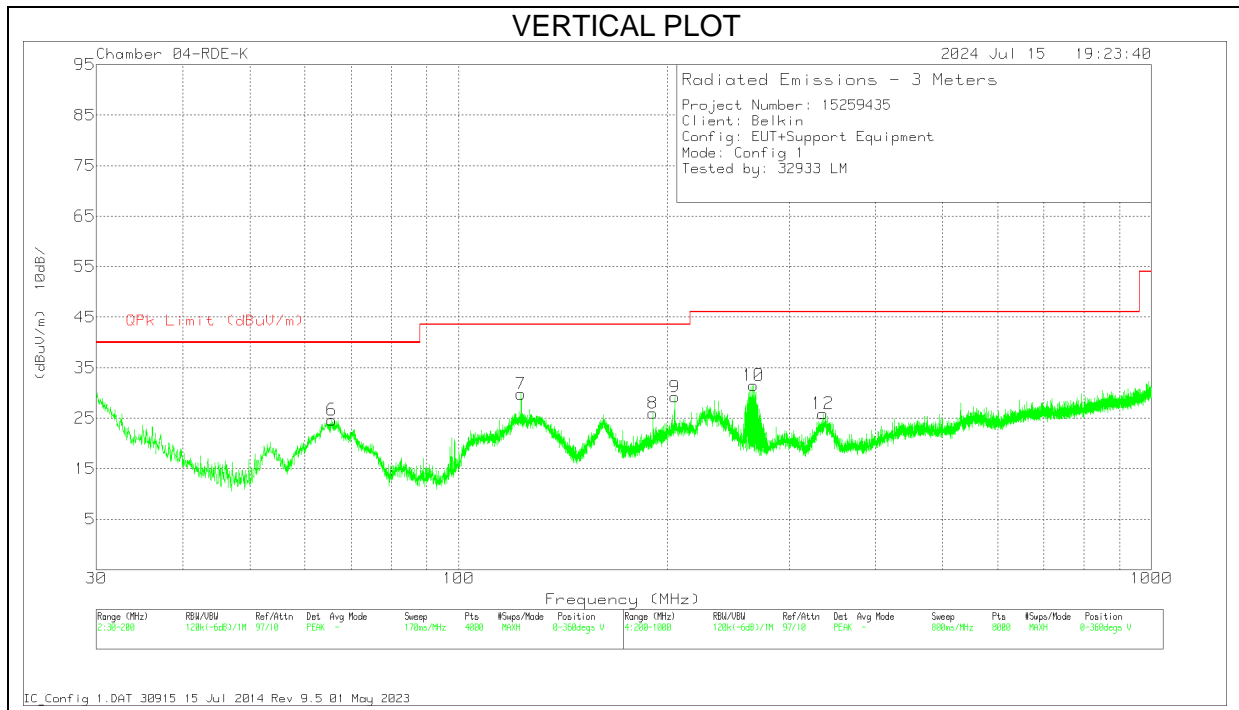
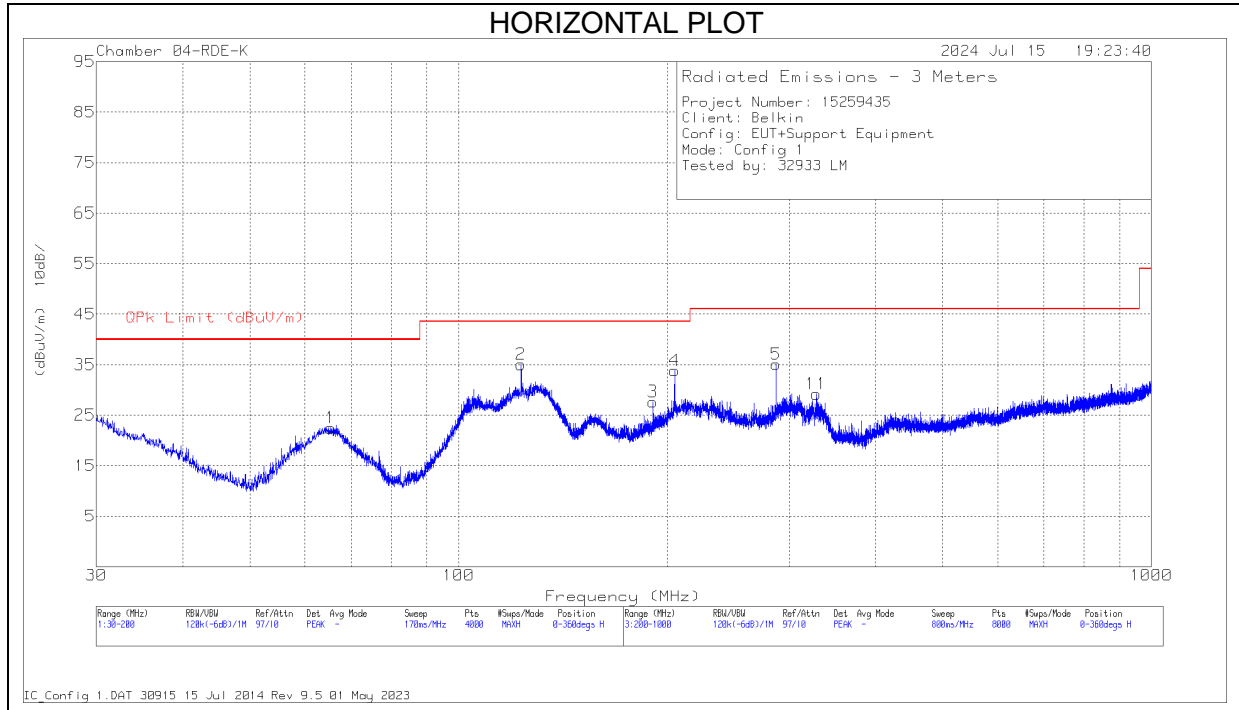
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m (dB)	Dist Corr 30m (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.1177	53.62	Pk	55.7	-32.2	-80	-	-2.88	-	-	46.21	-49.09	26.21	-29.09	214	Face-On
2	.3556	33.62	Pk	56.1	-32.2	-80	-	-22.48	-	-	36.59	-59.07	16.59	-39.07	228	Face-On
3	.5975	23.78	Pk	56.1	-32.2	-	-40	7.68	32.08	-24.4	-	-	-	-	0-360	Face-On
4	1.5555	26.99	Pk	44	-31.9	-	-40	-91	23.79	-24.7	-	-	-	-	0-360	Face-On
5	1.7772	39.71	Pk	42.9	-32	-	-40	10.61	29.5	-18.89	-	-	-	-	297	Face-On
6	.1177	49.56	Pk	55.7	-32.2	-80	-	-6.94	-	-	46.21	-53.15	26.21	-33.15	319	Face-Off
7	.3557	29.94	Pk	56.1	-32.2	-80	-	-26.16	-	-	36.59	-62.75	16.59	-42.75	310	Face-Off
8	.5989	20.49	Pk	56.1	-32.2	-	-40	4.39	32.06	-27.67	-	-	-	-	0-360	Face-Off
9	1.5573	23.84	Pk	44	-31.9	-	-40	-4.06	23.79	-27.85	-	-	-	-	0-360	Face-Off
10	1.7784	36.26	Pk	42.9	-32	-	-40	7.16	29.5	-22.34	-	-	-	-	29	Face-Off

Pk - Peak detector



### 8.3. FCC TX SPURIOUS EMISSION 30 TO 1000 MHz

#### 8.3.1. CONFIGURATION 1: WPT ON STANDBY

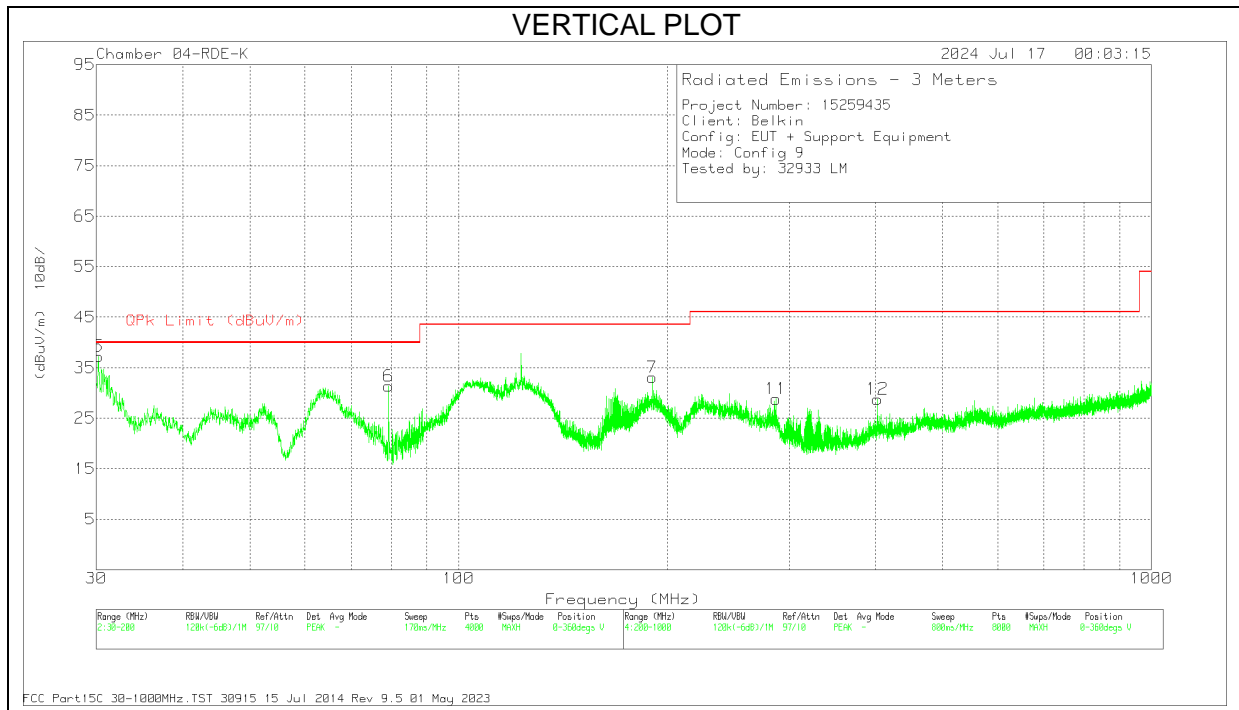
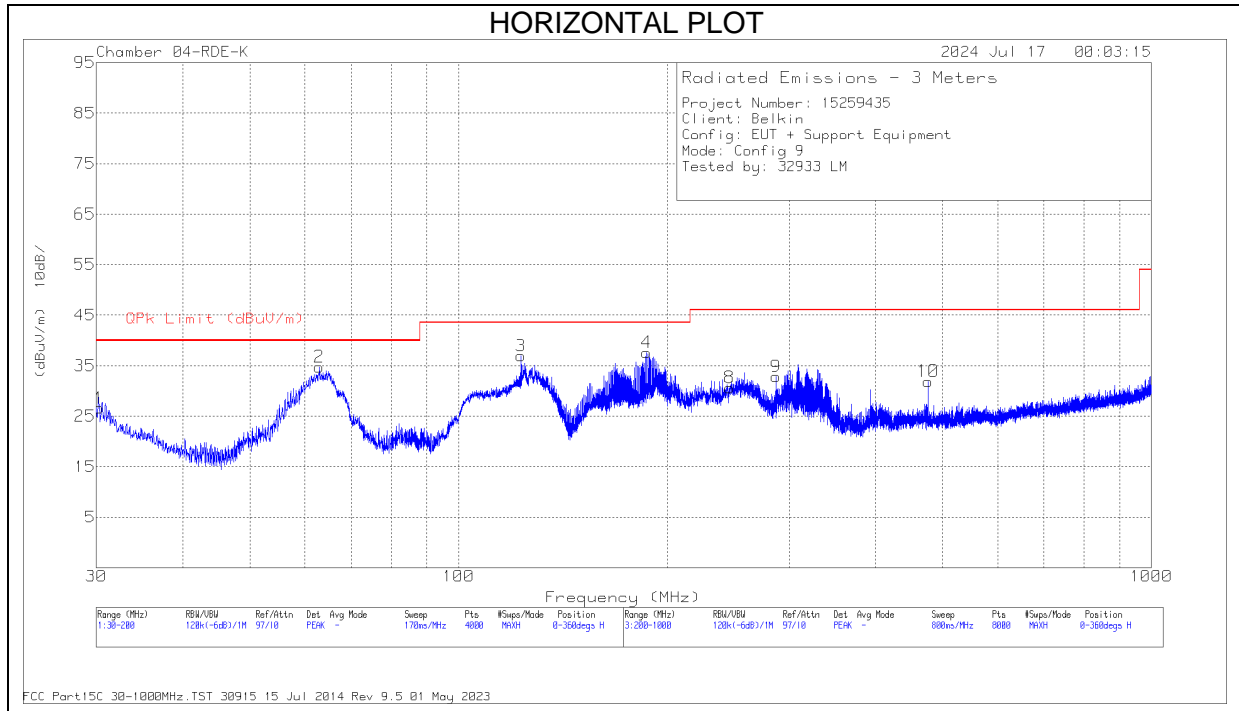


**DATA**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	203089 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	65.4117	39.47	Pk	13.9	-30.9	22.47	40	-17.53	0-360	299	H
2	123.119	46.84	Pk	20	-30.6	36.24	43.52	-7.28	168	300	H
	123.119	43.63	Qp	20	-30.6	33.03	43.52	-10.49	168	300	H
3	190.862	40.44	Pk	17.3	-30.1	27.64	43.52	-15.88	0-360	101	H
4	205.101	46.62	Pk	17.1	-29.9	33.82	43.52	-9.7	0-360	199	H
5	287.211	45.38	Pk	19.2	-29.5	35.08	46.02	-10.94	0-360	101	H
6	65.6242	41.54	Pk	14	-30.9	24.64	40	-15.36	0-360	101	V
7	123.142	40.32	Pk	20	-30.5	29.82	43.52	-13.7	0-360	101	V
8	190.862	38.8	Pk	17.3	-30.1	26	43.52	-17.52	0-360	101	V
9	205.201	42.13	Pk	17	-29.9	29.23	43.52	-14.29	0-360	99	V
10	266.409	42.48	Pk	18.7	-29.7	31.48	46.02	-14.54	0-360	99	V
11	328.317	38.8	Pk	20	-29.6	29.2	46.02	-16.82	0-360	101	H
12	335.718	35.42	Pk	20	-29.5	25.92	46.02	-20.1	0-360	99	V

Pk - Peak detector

### 8.3.2. CONFIGURATION 9: OPERATING MODE WITH iPhone (360kHz) + iPhone (111-148kHz) + Watch (1.778MHz)



**DATA**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	203089 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.2976	30.82	Pk	26.9	-31.1	26.62	40	-13.38	0-360	399	H
2	63.2964	50.49	Pk	13.7	-30.9	33.29	40	-6.71	345	360	H
	63.2964	46.69	Qp	13.7	-30.9	29.49	40	-10.51	345	360	H
3	123.134	46.13	Pk	20	-30.5	35.63	43.52	-7.89	208	367	H
	123.134	42.7	Qp	20	-30.5	32.2	43.52	-11.32	208	367	H
4	189.456	43.91	Pk	17.2	-29.9	31.21	43.52	-12.31	56	126	H
	189.456	40.55	Qp	17.2	-29.9	27.85	43.52	-15.67	56	126	H
5	30.2216	42.3	Pk	26.9	-31.1	38.1	40	-1.9	245	121	V
	30.2216	39.65	Qp	26.9	-31.1	35.45	40	-4.55	245	121	V
6	79.2703	48.85	Pk	13.5	-31	31.35	40	-8.65	0-360	100	V
7	190.351	45.87	Pk	17.3	-30.1	33.07	43.52	-10.45	0-360	100	V
8	246.006	42.74	Pk	17.5	-29.6	30.64	46.02	-15.38	0-360	100	H
9	287.311	43.13	Pk	19.2	-29.5	32.83	46.02	-13.19	0-360	100	H
10	476.136	36.87	Pk	23.7	-28.7	31.87	46.02	-14.15	0-360	299	H
11	287.311	39.11	Pk	19.2	-29.5	28.81	46.02	-17.21	0-360	199	V
12	402.526	36.18	Pk	21.5	-28.9	28.78	46.02	-17.24	0-360	101	V

Pk - 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

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 200Hz for below 150kHz, 9kHz for 150kHz to 30MHz. Peak detection is used unless otherwise noted as quasi-peak or average.

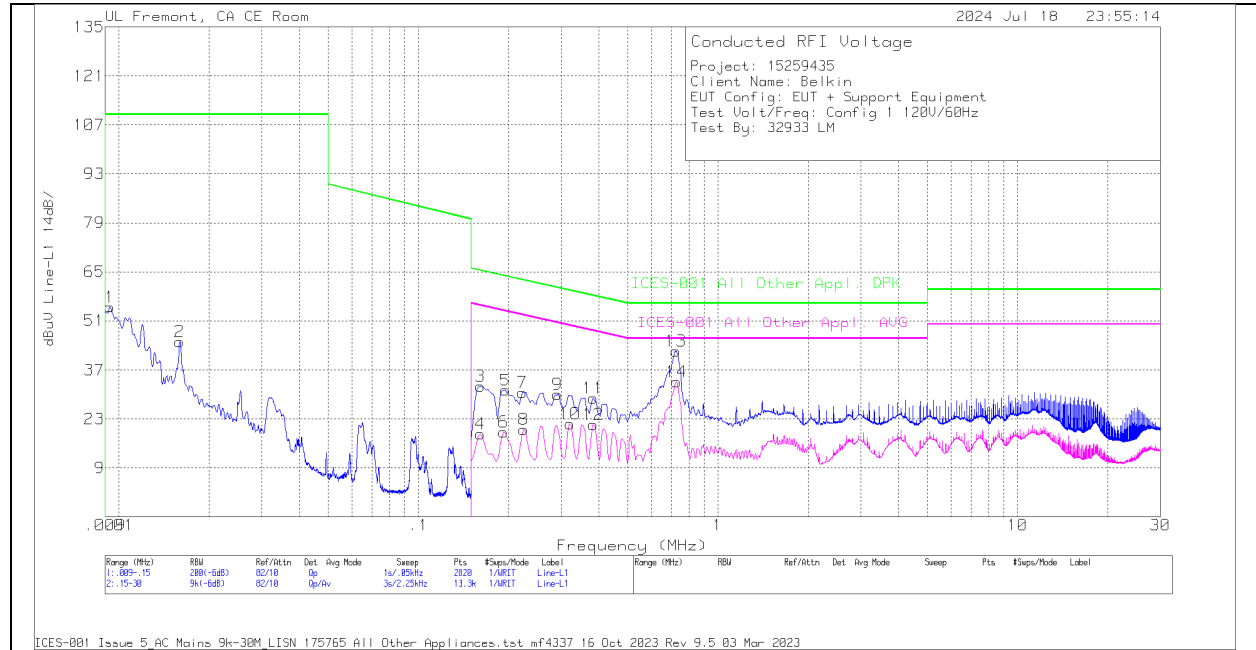
Line conducted data is recorded for both NEUTRAL and HOT lines.

### RESULTS

Testing range from 9kHz to 30MHz using ICES-001 Issue Table 1 “All other appliances” limit to cover both FCC and ISED frequency range.

## 9.1. CONFIGURATION 1: WPT ON STANDBY

### LINE 1 RESULTS



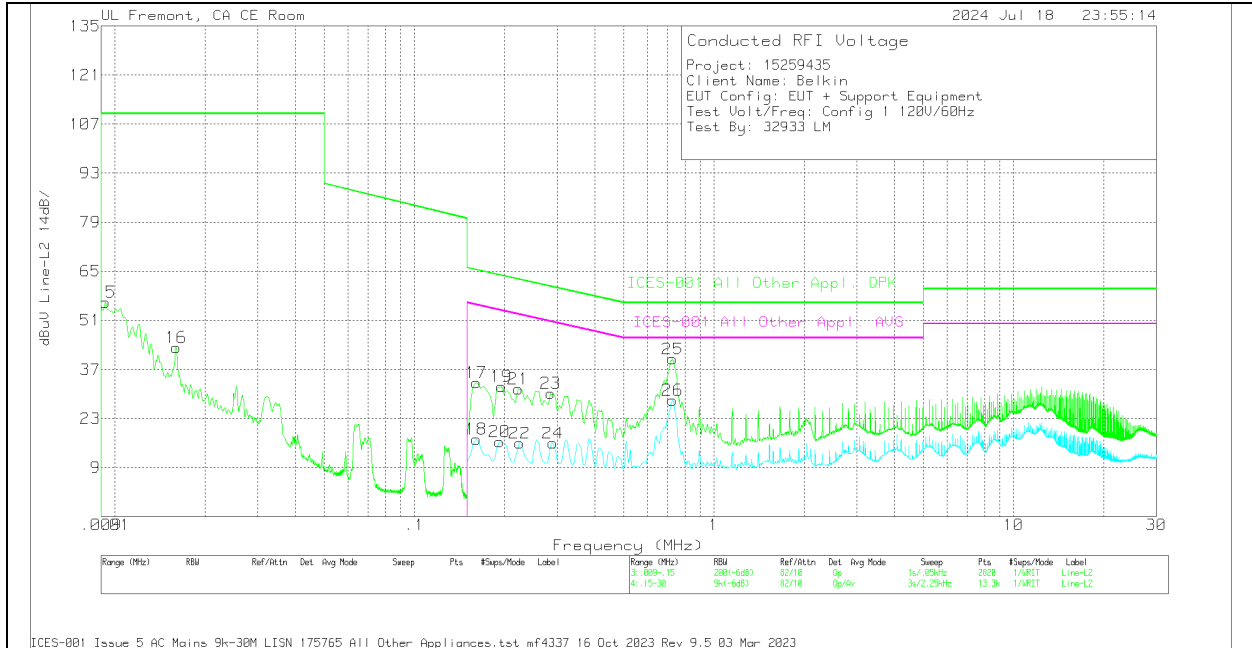
### WORST EMISSIONS

Range 1: Line-L1 .009 - .15MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	ICES-001 All Other Appl. QPK Limit (dBuV)	Margin (dB)	ICES-001 All Other Appl. AVG Limit (dBuV)	Margin (dB)
1	.0094	25.4	Qp	4.9	-.1	14.8	10	55	110	-55	-	-
2	.016	21.29	Qp	2.4	-.1	11.5	10	45.09	110	-64.91	-	-

Range 2: Line-L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	ICES-001 All Other Appl. QPK Limit (dBuV)	Margin (dB)	ICES-001 All Other Appl. AVG Limit (dBuV)	Margin (dB)
4	.1613	-83	Av	.1	0	9.5	10	18.77	-	-	55.4	-36.63
6	.1928	-39	Av	.1	.1	9.4	10	19.21	-	-	53.92	-34.71
8	.2243	.54	Av	0	.1	9.4	10	20.04	-	-	52.66	-32.62
10	.321	2.1	Av	0	.1	9.4	10	21.6	-	-	49.68	-28.08
12	.384	2.02	Av	0	0	9.4	10	21.42	-	-	48.19	-26.77
14	.726	14.03	Av	0	.1	9.4	10	33.53	-	-	46	-12.47
3	.1613	12.68	Qp	.1	0	9.5	10	32.28	65.4	-33.12	-	-
5	.195	11.59	Qp	.1	.1	9.4	10	31.19	63.82	-32.63	-	-
7	.222	11.12	Qp	0	.1	9.4	10	30.62	62.74	-32.12	-	-
9	.2918	10.57	Qp	0	.1	9.4	10	30.07	60.47	-30.4	-	-
11	.384	9.53	Qp	0	0	9.4	10	28.93	58.19	-29.26	-	-
13	.7238	22.95	Qp	0	.1	9.3	10	42.35	56	-13.65	-	-

Qp - Quasi-Peak detector  
 Av - Average detection

**LINE 2 RESULTS**



**WORST EMISSIONS**

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

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	ICES-001 All Other Appl. QPK Limit (dBuV)	Margin (dB)	ICES-001 All Other Appl. AVG Limit (dBuV)	Margin (dB)
15	.0093	26.27	Qp	4.9	0	15	10	56.17	110	-53.83	-	-
16	.016	19.42	Qp	2.4	0	11.5	10	43.32	110	-66.68	-	-

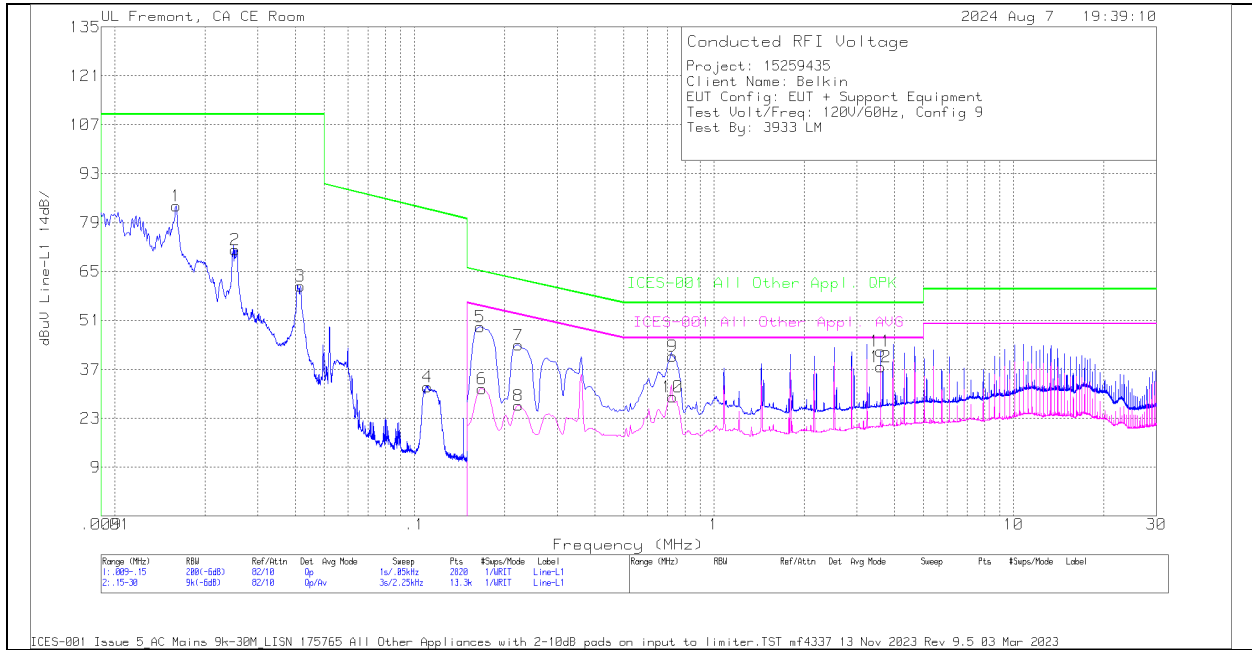
Range 4: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	ICES-001 All Other Appl. QPK Limit (dBuV)	Margin (dB)	ICES-001 All Other Appl. AVG Limit (dBuV)	Margin (dB)
18	.1613	-2.55	Av	.1	0	9.5	10	17.05	-	-	55.4	-38.35
20	.1928	-3.15	Av	0	.1	9.4	10	16.35	-	-	53.92	-37.57
22	.2243	-3.53	Av	0	.1	9.4	10	15.97	-	-	52.66	-36.69
24	.2895	-3.53	Av	0	.1	9.4	10	15.97	-	-	50.54	-34.57
26	.7283	8.76	Av	0	0	9.4	10	28.16	-	-	46	-17.84
17	.1613	13.58	Qp	.1	0	9.5	10	33.18	65.4	-32.22	-	-
19	.195	12.61	Qp	0	.1	9.4	10	32.11	63.82	-31.71	-	-
21	.222	11.93	Qp	0	.1	9.4	10	31.43	62.74	-31.31	-	-
23	.285	10.67	Qp	0	.1	9.4	10	30.17	60.67	-30.5	-	-
25	.7283	20.57	Qp	0	0	9.4	10	39.97	56	-16.03	-	-

Qp - Quasi-Peak detector  
 Av - Average detection

## 9.2. CONFIGURATION 9: OPERATING MODE WITH iPhone (360kHz) + iPhone (111-148kHz) + Watch (1.778MHz)

### LINE 1 RESULTS



### WORST EMISSIONS

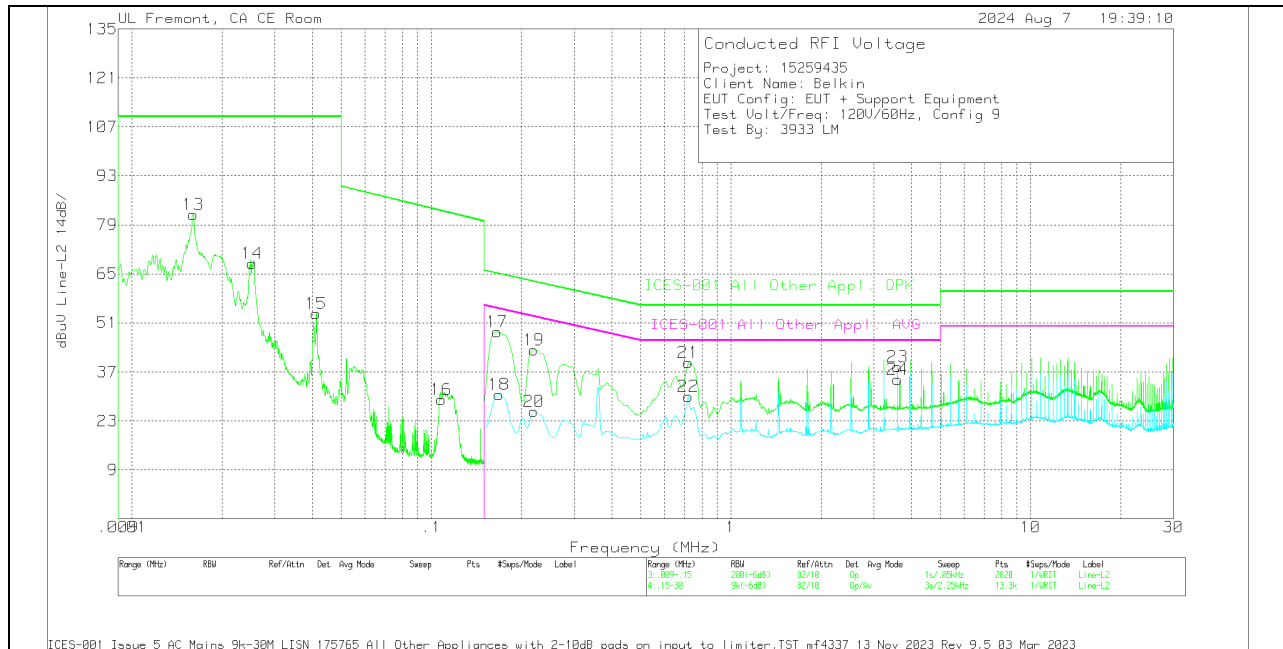
Range 1: Line-L1 .009 - .15MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	20dB Atten (dB)	Corrected Reading dBuV	ICES-001 All Other Appl. QPK Limit (dBuV)	Margin (dB)	ICES-001 All Other Appl. AVG Limit (dBuV)	Margin (dB)
1	.016	49.95	Qp	2.4	-.1	11.5	20	83.75	110	-26.25	-	-
2	.0252	39.1	Qp	1.2	.1	10.8	20	71.2	110	-38.8	-	-
3	.0416	30.07	Qp	.5	0	10.3	20	60.87	110	-49.13	-	-
4	.1107	2.29	Qp	.1	.1	9.5	20	31.99	82.77	-50.78	-	-

Range 2: Line-L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	20dB Atten (dB)	Corrected Reading dBuV	ICES-001 All Other Appl. QPK Limit (dBuV)	Margin (dB)	ICES-001 All Other Appl. AVG Limit (dBuV)	Margin (dB)
6	.168	1.85	Av	.1	0	9.5	20	31.45	-	-	55.06	-23.61
8	.222	-2.81	Av	0	.1	9.4	20	26.69	-	-	52.74	-26.05
10	.726	-.4	Av	0	.1	9.4	20	29.1	-	-	46	-16.9
12	3.5993	8.39	Av	0	.1	9.3	20	37.79	-	-	46	-8.21
5	.1658	19.6	Qp	.1	0	9.5	20	49.2	65.17	-15.97	-	-
7	.222	14.41	Qp	0	.1	9.4	20	43.91	62.74	-18.83	-	-
9	.726	11.34	Qp	0	.1	9.4	20	40.84	56	-15.16	-	-
11	3.5993	12.82	Qp	0	.1	9.3	20	42.22	56	-13.78	-	-

Qp - Quasi-Peak detector  
 Av - Average detection



**LINE 2 RESULTS**



**WORST EMISSIONS**

Range 3: Line-L2 .009 - .15MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	20dB Atten (dB)	Corrected Reading dBuV	ICES-001 All Other Appl. QPK Limit (dBuV)	Margin (dB)	ICES-001 All Other Appl. AVG Limit (dBuV)	Margin (dB)
13	.016	48.14	Qp	2.4	0	11.5	20	82.04	110	-27.96	-	-
14	.0252	35.93	Qp	1.1	.1	10.8	20	67.93	110	-42.07	-	-
15	.0413	22.9	Qp	.5	0	10.3	20	53.7	110	-56.3	-	-
16	.108	-58	Qp	.1	.1	9.5	20	29.12	82.99	-53.87	-	-

Range 4: Line-L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	20dB Atten (dB)	Corrected Reading dBuV	ICES-001 All Other Appl. QPK Limit (dBuV)	Margin (dB)	ICES-001 All Other Appl. AVG Limit (dBuV)	Margin (dB)
18	.168	-.89	Av	.1	0	9.5	20	30.49	-	-	55.06	-24.57
20	.2198	-3.85	Av	0	.1	9.4	20	25.65	-	-	52.83	-27.18
22	.7193	.69	Av	0	0	9.3	20	29.99	-	-	46	-16.01
24	3.5993	5.53	Av	0	.1	9.3	20	34.93	-	-	46	-11.07
17	.1658	18.84	Qp	.1	0	9.5	20	48.44	65.17	-16.73	-	-
19	.2198	13.8	Qp	0	.1	9.4	20	43.3	62.83	-19.53	-	-
21	.7215	10.44	Qp	0	0	9.3	20	39.74	56	-16.26	-	-
23	3.5993	9.12	Qp	0	.1	9.3	20	38.52	56	-17.48	-	-

## 10. DESCRIPTION OF TEST SETUP AND SETUP PHOTOS

Please refer to 15259435-EP1 (FCC ) for description of test up and setup photo.

**END OF TEST REPORT**