



Test Report No.: FM2008WDG0302

## RF EXPOSURE TEST REPORT

Applicant	Belkin International, Inc.
Address	12045 East Waterfront Drive, Playa Vista, CA 90094 USA

Manufacturer or Supplier	Belkin International, Inc.
Address	12045 East Waterfront Drive, Playa Vista, CA 90094 USA
Product	UV Sanitizer + Wireless Charger
Additional Product	BOOST↑CHARGE™ UV Sanitizer + Wireless Charger
Brand Name	playa, belkin
Model	PWC001
Additional Model & Model Difference	WIZ011, see items 1.1
Date of tests	Aug. 25, 2020 ~ Sep. 12, 2020

The submitted sample of the above equipment has been tested according to the requirements of the following standard:

- 47 CFR PART 1, Subpart I, Section 1.1310
- KDB 680106 D01

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager/ EMC Department
Data: Sep. 24, 2020	

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Test Report No.: FM2008WDG0302

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2008WDG0302	Original release	Sep. 24, 2020

## 1. GENERAL INFORMATION

### 1.1. GENERAL DESCRIPTION OF EUT

<b>FCC ID</b>	K7SWIZ011
<b>PRODUCT</b>	UV Sanitizer + Wireless Charger
<b>ADDITIONAL PRODUCT</b>	BOOST↑CHARGE™ UV Sanitizer + Wireless Charger
<b>MODEL NO.</b>	PWC001
<b>ADDITIONAL MODEL</b>	WIZ011
<b>POWER SUPPLY</b>	Input: DC 12V 1.5A from adapter Output: 10W
<b>MODULATION TECHNOLOGY</b>	FSK
<b>OPERATING FREQUENCY RANGE</b>	110KHz ~ 205KHz
<b>ANTENNA TYPE</b>	Loop Antenna
<b>I/O PORTS</b>	Refer to user's manual
<b>CABLE SUPPLIED</b>	USB-A to USB-C cable: Shielded, detachable 1.2m

#### NOTES:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- Please refer to the EUT photo document (Reference No.: 2008WDG0302-1) for detailed product photo.
- Additional model WIZ011 is identical with test model PWC001 except the model no. and brand name for trading purpose.
- The EUT was powered by the following adapter.

ADAPTER	
BRAND:	N/A
MODEL:	W0920U-1U05F
INPUT:	AC 100-240V, 50/60Hz 0.45A
OUTPUT:	DC 3.6V~6.0V 3A or 6V~9V 2A or 9V~12V 1.5A
DC LINE:	N/A

## 2. RF EXPOSURE MEASUREMENT

### 2.1 LIMITS

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3–3.0 .....	614	1.63	*(100)	6
3.0–30 .....	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30–300 .....	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3–1.34 .....	614	1.63	*(100)	30
1.34–30 .....	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30–300 .....	27.5	0.073	0.2	30
300–1500 .....	.....	.....	f/1500	30
1500–100,000 .....	.....	.....	1.0	30

f = frequency in MHz

\* = Plane-wave equivalent power density

NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

### Reference KDB 680106 D01 RF Exposure Wireless Charging App v03

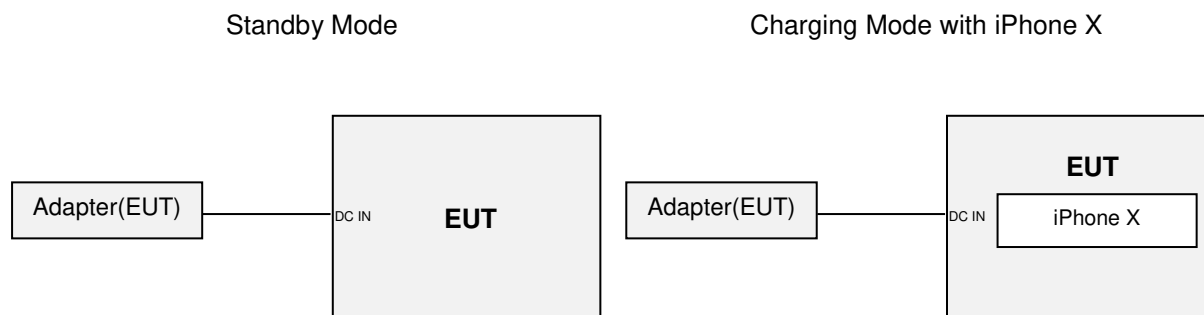
The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

### 2.2 DESCRIPTION OF SUPPORT UNITS

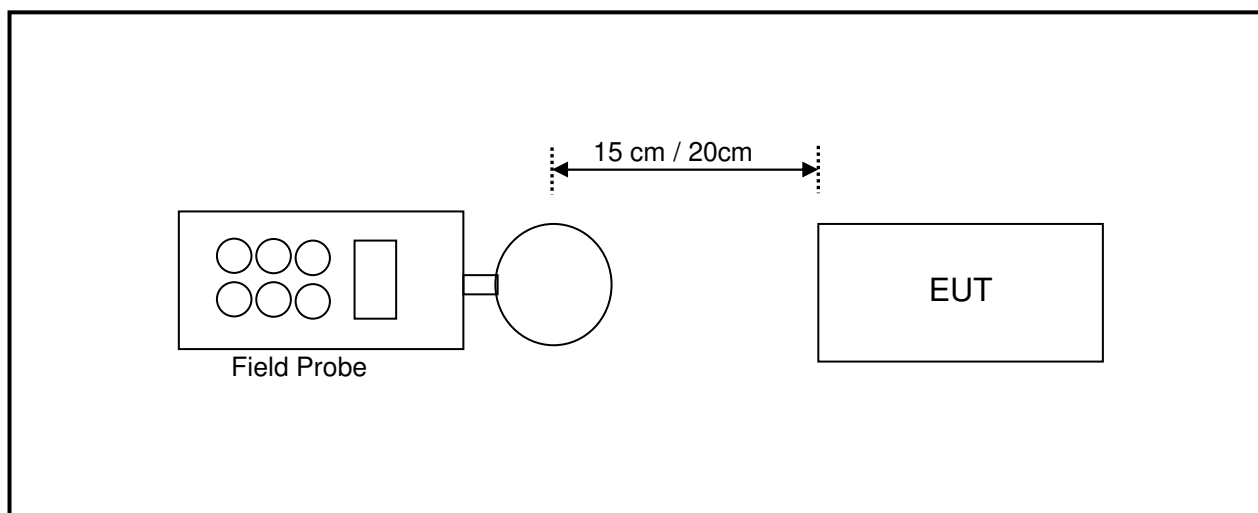
The EUT has been tested with associated equipment below

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	iPhone X	Apple	MQA52CH/A	N/A	N/A

### 2.3 CONFIGURATION OF SYSTEM UNDER TEST



### 2.4 TEST SETUP FOR WPC



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device.

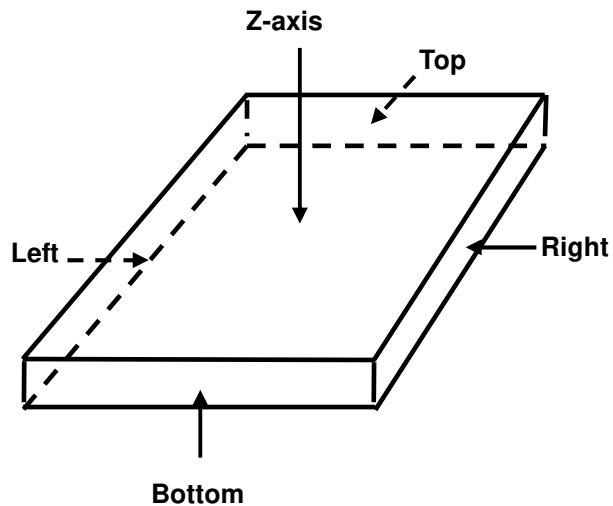


## 2.5 EQUIPMENTS USED DURING TEST

Item	Test Equipment	Manufacturer	Model No.	S/No	Due date.
1	3m Semi-Anechoic Chamber	ETS-LINDGRE N	7m*4m*3m	NSEMC003	2021-03-19
2	B-field Probe	Narda	Y2006	L-0017	2020-12-23
3	E-Field probe	Narda	NBM-520	2403/01B	2020-12-23

- NOTE:**
1. The test was performed in RS chamber.
  2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

## 2.6 TEST POINT DESCRIPTION





## 2.7 TEST RESULTS

### Mode 1 Standby

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.54	0.43	0.27	0.32	0.42
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.46	-613.57	-613.73	-613.68	-613.58
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-306.46	-306.57	-306.73	-306.68	-306.58

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.35	0.32	0.27	0.34	0.35
Max H-field (A/m)	0.279	0.255	0.215	0.271	0.279
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.351	-1.375	-1.415	-1.359	-1.351
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.536	-0.560	-0.600	-0.544	-0.536

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

### Charging Mode2 Charging Mode with iPhone X 10% Charger ( at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.64	2.33	1.27	1.12	3.64
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.36	-611.67	-612.73	-612.88	-610.36
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.36	-304.67	-305.73	-305.88	-303.36

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.35	0.32	0.38	0.34	0.35
Max H-field (A/m)	0.279	0.255	0.303	0.271	0.279
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.351	-1.375	-1.327	-1.359	-1.351
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.536	-0.560	-0.512	-0.544	-0.536

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



**Charging Mode3 Charging Mode with iPhone X 50% Charger ( at center)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.15	1.32	1.11	0.98	2.67
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.85	-612.68	-612.89	-613.02	-611.33
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.85	-305.68	-305.89	-306.02	-304.33

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.28	0.31	0.32	0.27	0.31
Max H-field (A/m)	0.223	0.247	0.255	0.215	0.247
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.407	-1.383	-1.375	-1.415	-1.383
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.592	-0.568	-0.560	-0.600	-0.568

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode4 Charging Mode with iPhone X 90% Charger ( at center)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.12	1.87	1.08	1.11	0.87
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.88	-612.13	-612.92	-612.89	-613.13
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.88	-305.13	-305.92	-305.89	-306.13

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.31	0.37	0.42	0.34	0.36
Max H-field (A/m)	0.247	0.295	0.334	0.271	0.287
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.383	-1.335	-1.296	-1.359	-1.343
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.568	-0.520	-0.481	-0.544	-0.528

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode5 Charging Mode with iPhone X 10% Charger ( shift 5mm to right)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.26	2.97	1.22	1.24	3.67
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.74	-611.03	-612.78	-612.76	-610.33
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-304.74	-304.03	-305.78	-305.76	-303.33

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.35	0.37	0.34	0.31	0.33
Max H-field (A/m)	0.279	0.295	0.271	0.247	0.263
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.351	-1.335	-1.359	-1.383	-1.367
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.536	-0.520	-0.544	-0.568	-0.552

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode6 Charging Mode with iPhone X 50% Charger ( shift 5mm to right)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.13	2.08	1.67	1.06	2.08
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.87	-611.92	-612.33	-612.94	-611.92
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.87	-304.92	-305.33	-305.94	-304.92

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.31	0.37	0.42	0.34	0.36
Max H-field (A/m)	0.247	0.295	0.334	0.271	0.287
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.383	-1.335	-1.296	-1.359	-1.343
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.568	-0.520	-0.481	-0.544	-0.528

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode 7 Charging Mode with iPhone X 90% Charger ( shift 5mm to right)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.57	1.52	0.82	1.34	1.46
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.43	-612.48	-613.18	-612.66	-612.54
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.43	-305.48	-306.18	-305.66	-305.54

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.31	0.37	0.42	0.34	0.36
Max H-field (A/m)	0.247	0.295	0.334	0.271	0.287
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.383	-1.335	-1.296	-1.359	-1.343
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.568	-0.520	-0.481	-0.544	-0.528

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode8 Charging Mode with iPhone X 10% Charger ( shift 5mm to left )**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.13	1.11	1.49	1.36	2.08
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.87	-612.89	-612.51	-612.64	-611.92
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-304.87	-305.89	-305.51	-305.64	-304.92

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.31	0.33	0.36	0.37	0.29
Max H-field (A/m)	0.247	0.263	0.287	0.295	0.231
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.383	-1.367	-1.343	-1.335	-1.399
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.568	-0.552	-0.528	-0.520	-0.584

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode9 Charging Mode with iPhone X 50% Charger ( shift 5mm to left )**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.22	1.36	2.69	0.99	1.28
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.78	-612.64	-611.31	-613.01	-612.72
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.78	-305.64	-304.31	-306.01	-305.72

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.38	0.31	0.31	0.34	0.38
Max H-field (A/m)	0.303	0.247	0.247	0.271	0.303
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.327	-1.383	-1.383	-1.359	-1.327
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.512	-0.568	-0.568	-0.544	-0.512

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode10 Charging Mode with iPhone X 90% Charger ( shift 5mm to left )**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.57	1.52	0.82	1.34	1.46
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.43	-612.48	-613.18	-612.66	-612.54
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.43	-305.48	-306.18	-305.66	-305.54

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.31	0.37	0.42	0.34	0.36
Max H-field (A/m)	0.247	0.295	0.334	0.271	0.287
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.383	-1.335	-1.296	-1.359	-1.343
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.568	-0.520	-0.481	-0.544	-0.528

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode11 Charging Mode with iPhone X 10% Charger (shift 5mm to top)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.13	1.11	1.49	1.36	1.97
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.87	-612.89	-612.51	-612.64	-612.03
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-304.87	-305.89	-305.51	-305.64	-305.03

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.38	0.31	0.31	0.34	0.38
Max H-field (A/m)	0.303	0.247	0.247	0.271	0.303
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.327	-1.383	-1.383	-1.359	-1.327
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.512	-0.568	-0.568	-0.544	-0.512

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode12 Charging Mode with iPhone X 50% Charger ( shift 5mm to top)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.22	1.36	2.69	0.99	1.28
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.78	-612.64	-611.31	-613.01	-612.72
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.78	-305.64	-304.31	-306.01	-305.72

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.38	0.31	0.31	0.34	0.38
Max H-field (A/m)	0.303	0.247	0.247	0.271	0.303
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.327	-1.383	-1.383	-1.359	-1.327
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.512	-0.568	-0.568	-0.544	-0.512

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode13 Charging Mode with iPhone X 90% Charger (shift 5mm to top )**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.57	1.52	0.82	1.34	1.46
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.43	-612.48	-613.18	-612.66	-612.54
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.43	-305.48	-306.18	-305.66	-305.54

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.38	0.31	0.31	0.34	0.38
Max H-field (A/m)	0.303	0.247	0.247	0.271	0.303
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.327	-1.383	-1.383	-1.359	-1.327
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.512	-0.568	-0.568	-0.544	-0.512

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode14 Charging Mode with iPhone X 10% Charger (shift 5mm to bottom )**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.26	2.97	1.22	1.24	3.67
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.74	-611.03	-612.78	-612.76	-610.33
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-304.74	-304.03	-305.78	-305.76	-303.33

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.35	0.32	0.27	0.34	0.35
Max H-field (A/m)	0.279	0.255	0.215	0.271	0.279
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.351	-1.375	-1.415	-1.359	-1.351
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.536	-0.560	-0.600	-0.544	-0.536

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode15 Charging Mode with iPhone X 50% Charger (shift 5mm to bottom)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.57	1.52	0.82	1.34	1.46
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.43	-612.48	-613.18	-612.66	-612.54
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.43	-305.48	-306.18	-305.66	-305.54

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.35	0.32	0.27	0.34	0.35
Max H-field (A/m)	0.279	0.255	0.215	0.271	0.279
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.351	-1.375	-1.415	-1.359	-1.351
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.536	-0.560	-0.600	-0.544	-0.536

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode16 Charging Mode with iPhone X 90% Charger (shift 5mm to bottom )**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.15	1.32	1.11	0.98	2.67
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.85	-612.68	-612.89	-613.02	-611.33
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.85	-305.68	-305.89	-306.02	-304.33

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.31	0.37	0.42	0.34	0.36
Max H-field (A/m)	0.247	0.295	0.334	0.271	0.287
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.383	-1.335	-1.296	-1.359	-1.343
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.568	-0.520	-0.481	-0.544	-0.528

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode17 Charging Mode with iPhone X 10% 3mm airgap Charger ( at center)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.33	2.21	1.22	1.37	2.67
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.67	-611.79	-612.78	-612.63	-611.33
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.67	-304.79	-305.78	-305.63	-304.33

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.32	0.38	0.31	0.37	0.412
Max H-field (A/m)	0.255	0.303	0.247	0.295	0.328
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.375	-1.327	-1.383	-1.335	-1.302
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.560	-0.512	-0.568	-0.520	-0.487

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode18 Charging Mode with iPhone X 50% 3mm airgap Charger ( at center)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.13	1.26	2.33	1.55	3.97
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.87	-612.74	-611.67	-612.45	-610.03
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-304.87	-305.74	-304.67	-305.45	-303.03

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.336	0.312	0.334	0.357	0.416
Max H-field (A/m)	0.268	0.248	0.266	0.284	0.331
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.362	-1.382	-1.364	-1.346	-1.299
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.547	-0.567	-0.549	-0.531	-0.484

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



**Charging Mode19 Charging Mode with iPhone X 90% 3mm airgap Charger ( at center)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.1	1.37	1.93	1.18	1.33
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.9	-612.63	-612.07	-612.82	-612.67
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.9	-305.63	-305.07	-305.82	-305.67

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.269	0.278	0.266	0.297	0.223
Max H-field (A/m)	0.214	0.221	0.212	0.236	0.178
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.416	-1.409	-1.418	-1.394	-1.452
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.601	-0.594	-0.603	-0.579	-0.637

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode20 Charging Mode with iPhone X 10% 3mm airgap Charger ( shift 5mm to right)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.33	2.21	1.22	1.37	2.67
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.67	-611.79	-612.78	-612.63	-611.33
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.67	-304.79	-305.78	-305.63	-304.33

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.32	0.38	0.31	0.37	0.412
Max H-field (A/m)	0.255	0.303	0.247	0.295	0.328
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.375	-1.327	-1.383	-1.335	-1.302
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.560	-0.512	-0.568	-0.520	-0.487

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode21 Charging Mode with iPhone X 50% 3mm airgap Charger ( shift 5mm to right)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.13	1.26	2.33	1.55	3.97
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.87	-612.74	-611.67	-612.45	-610.03
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-304.87	-305.74	-304.67	-305.45	-303.03

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.269	0.278	0.266	0.297	0.223
Max H-field (A/m)	0.214	0.221	0.212	0.236	0.178
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.416	-1.409	-1.418	-1.394	-1.452
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.601	-0.594	-0.603	-0.579	-0.637

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode22 Charging Mode with iPhone X 90% 3mm airgap Charger ( shift 5mm to right)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.12	1.33	0.97	1.23	2.33
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.88	-612.67	-613.03	-612.77	-611.67
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.88	-305.67	-306.03	-305.77	-304.67

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.336	0.312	0.334	0.357	0.416
Max H-field (A/m)	0.268	0.248	0.266	0.284	0.331
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.362	-1.382	-1.364	-1.346	-1.299
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.547	-0.567	-0.549	-0.531	-0.484

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode23 Charging Mode with iPhone X 10% 3mm airgap Charger ( shift 5mm to left )**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.13	1.26	2.33	1.55	3.97
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.87	-612.74	-611.67	-612.45	-610.03
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-304.87	-305.74	-304.67	-305.45	-303.03

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.32	0.38	0.31	0.37	0.41
Max H-field (A/m)	0.255	0.303	0.247	0.295	0.326
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.375	-1.327	-1.383	-1.335	-1.304
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.560	-0.512	-0.568	-0.520	-0.489

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode24 Charging Mode with iPhone X 50% 3mm airgap Charger ( shift 5mm to left )**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.13	1.26	2.31	1.51	2.87
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.87	-612.74	-611.69	-612.49	-611.13
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.87	-305.74	-304.69	-305.49	-304.13

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.336	0.312	0.334	0.357	0.44
Max H-field (A/m)	0.268	0.248	0.266	0.284	0.350
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.362	-1.382	-1.364	-1.346	-1.280
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.547	-0.567	-0.549	-0.531	-0.465

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode25 Charging Mode with iPhone X 90% 3mm airgap Charger ( shift 5mm to left )**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.14	1.28	1.32	1.22	2.89
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.86	-612.72	-612.68	-612.78	-611.11
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.86	-305.72	-305.68	-305.78	-304.11

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.31	0.37	0.42	0.34	0.36
Max H-field (A/m)	0.247	0.295	0.334	0.271	0.287
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.383	-1.335	-1.296	-1.359	-1.343
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.568	-0.520	-0.481	-0.544	-0.528

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode26 Charging Mode with iPhone X 10% 3mm airgap Charger (shift 5mm to top )**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.55	3.22	1.68	0.95	2.35
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.45	-610.78	-612.32	-613.05	-611.65
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-304.45	-303.78	-305.32	-306.05	-304.65

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.38	0.31	0.31	0.34	0.38
Max H-field (A/m)	0.303	0.247	0.247	0.271	0.303
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.327	-1.383	-1.383	-1.359	-1.327
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.512	-0.568	-0.568	-0.544	-0.512

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode27 Charging Mode with iPhone X 50% 3mm airgap Charger ( shift 5mm to top)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.13	1.26	2.33	1.55	3.97
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.87	-612.74	-611.67	-612.45	-610.03
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-304.87	-305.74	-304.67	-305.45	-303.03

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.38	0.31	0.31	0.34	0.38
Max H-field (A/m)	0.303	0.247	0.247	0.271	0.303
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.327	-1.383	-1.383	-1.359	-1.327
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.512	-0.568	-0.568	-0.544	-0.512

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode28 Charging Mode with iPhone X 90% 3mm airgap Charger (shift 5mm to top )**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.14	1.28	1.32	1.22	1.89
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.86	-612.72	-612.68	-612.78	-612.11
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.86	-305.72	-305.68	-305.78	-305.11

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.38	0.31	0.31	0.34	0.38
Max H-field (A/m)	0.303	0.247	0.247	0.271	0.303
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.327	-1.383	-1.383	-1.359	-1.327
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.512	-0.568	-0.568	-0.544	-0.512

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



**Charging Mode29 Charging Mode with iPhone X 10% 3mm airgap Charger (shift 5mm to bottom )**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.15	1.92	1.38	1.24	3.38
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.85	-612.08	-612.62	-612.76	-610.62
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.85	-305.08	-305.62	-305.76	-303.62

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.332	0.321	0.336	0.387	0.345
Max H-field (A/m)	0.264	0.256	0.268	0.308	0.275
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.366	-1.374	-1.362	-1.322	-1.355
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.551	-0.559	-0.547	-0.507	-0.540

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Charging Mode30 Charging Mode with iPhone X 50% 3mm airgap Charger (shift 5mm to bottom)**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.15	1.32	1.11	0.98	2.67
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.85	-612.68	-612.89	-613.02	-611.33
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.85	-305.68	-305.89	-306.02	-304.33

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.269	0.278	0.266	0.297	0.223
Max H-field (A/m)	0.214	0.221	0.212	0.236	0.178
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.416	-1.409	-1.418	-1.394	-1.452
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.601	-0.594	-0.603	-0.579	-0.637

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



**Charging Mode31 Charging Mode with iPhone X 90% 3mm airgap Charger (shift 5mm to bottom )**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.12	1.33	0.97	1.23	2.33
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.88	-612.67	-613.03	-612.77	-611.67
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-305.88	-305.67	-306.03	-305.77	-304.67

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.28	0.31	0.32	0.27	0.31
Max H-field (A/m)	0.223	0.247	0.255	0.215	0.247
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.407	-1.383	-1.375	-1.415	-1.383
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.592	-0.568	-0.560	-0.600	-0.568

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



Test Report No.: FM2008WDG0302

### 3. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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