

RF Exposure Report

Report No.: SA170614C22C

FCC ID: K7SF8M747V2

Test Model: F8M741

Series Model: F8M747V2

Received Date: Mar. 21, 2018

Test Date: Mar. 29 ~ Apr. 20, 2018

Issued Date: Apr. 23, 2018

Applicant: Belkin International., Inc

Address: 12045 East Waterfront Drive, Playa Vista, CA 90094

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

**FCC Registration /
Designation Number:** 198487 / TW2021



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Release Control Record

Issue No.	Description	Date Issued
SA170614C22C	Original release	Apr. 23, 2018

1 Certificate of Conformity

Product: Wireless Charging Pad

Brand: belkin

Test Model: F8M741

Series Model: F8M747V2

Sample Status: Engineering sample

Applicant: Belkin International., Inc

Test Date: Mar. 29 ~ Apr. 20, 2018

Standards: FCC Part 1 (Section 1.1307(b), 1.1310)

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :



Date: Apr. 23, 2018

Annie Chang / Senior Specialist

Approved by :



Date: Apr. 23, 2018

Rex Lai / Associate Technical Manager

2 General Information

2.1 General Description of EUT

Product	Wireless Charging Pad
Brand	belkin
Test Model	F8M741
Series Model	F8M747V2
Model Difference	Refer to note as below
Sample Status	Engineering sample
Power Supply Rating	5Vdc (adapter)
Modulation Type	FSK
Operating Frequency	115-148kHz
Antenna Type	Coil antenna
Field Strength	97.01dBuV/m
Dimensions	15.205cm ² (diameter = 44.0mm)
Accessory Device	Wall charger
Data Cable Supplied	2m shielded USB cable without core
Maximum Power Output from the Charging Coil	Max Power Should be 5W

Note:

1. The EUT is a wireless inductive charging coil for charging Phone.
2. All models are listed as below. The model: F8M741 was selected as a representative one and therefore only its test data was recorded in this report.

Brand	Model	Difference
belkin	F8M741	Wireless Charging Pad + Wall Charger + USB cable
belkin	F8M747V2	Wireless Charging Pad + USB cable

3. Model: F8M741 includes following device.

Item	Brand	Model	Specification
Wall charger	Ten Pao International Inc.	S012CDU0500200	Input: 100-240Vac, 0.4A, 50/60Hz Output: 5Vdc, 2000mA

4. The EUT was pre-tested with the following modes:

- Charging Mode (Powered from Adapter)
- Charging Mode (Powered from Notebook)
- The worst emission level was found when the EUT tested under **Charging Mode (Powered from Adapter)**, therefore, only its test data was recorded in this report.

3 RF Exposure

3.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

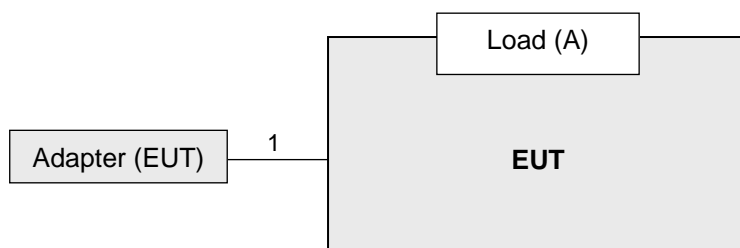
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Load	NA	NA	NA	NA	Provided by manufacturer
B.	iPhone X	Apple	A1901	NA	BCG-E3175A	Provided by manufacturer

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB cable	1	2	Y	0	Supplied by client

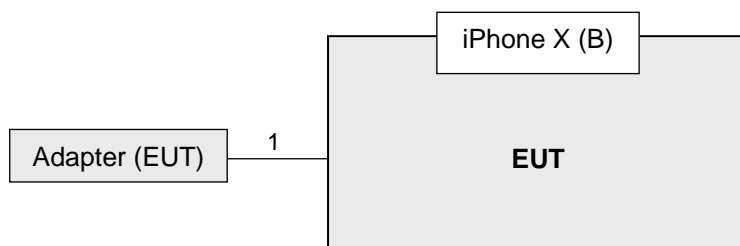
Note: The core(s) is(are) originally attached to the cable(s)

3.1.1 Configuration of System Under Test

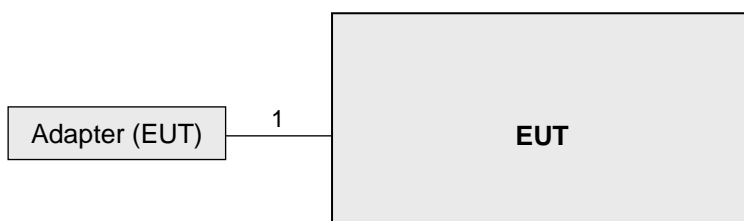
Charging Mode with Load



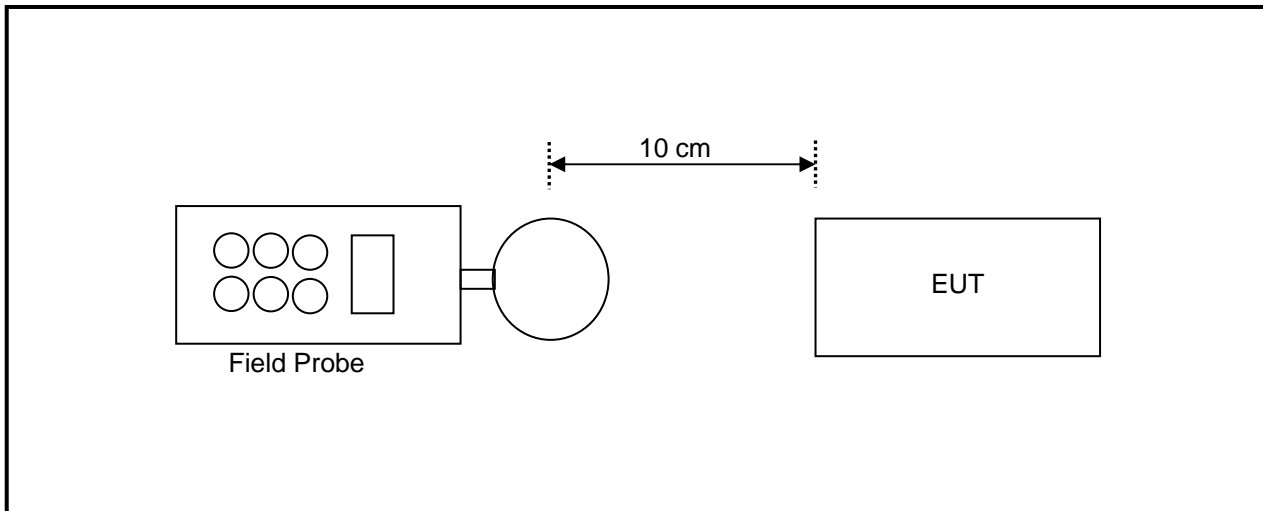
Charging Mode with iPhone



Standby Mode



3.2 Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device.

3.3 Test Instruments

Description	Brand	Model No.	Frequency Range	Calibrated Date	Calibrated Until
Broadband Field Meter	NARDA	NBM-550	-	Jan.12,2017	Jan.11,2019
Magnetic Field Meter	NARDA	ELT-400	1 – 400kHz	Jan.10,2017	Jan.9,2019
Magnetic Probe	NARDA	HF-3061	300kHz – 30MHz	Jan.4,2017	Jan.3,2019
Magnetic Probe	NARDA	HF-0191	27 – 1000MHz	Jan.4,2017	Jan.3,2019
Broadband Field Meter	NARDA	NBM-550	-	Jan.12,2017	Jan.11,2019
Electric Field Meter	COMBINOVA	EFM 200	5Hz – 400kHz	Dec. 6, 2017	Dec. 5, 2019
E-Field Probe	NARDA	EF-0391	100kHz – 3GHz	Jan.5,2017	Jan.4,2019
E-Field Probe	NARDA	EF-6091	100MHz – 60GHz	Jan.5,2017	Jan.4,2019

NOTE: 1. The calibration interval of the above test instruments is 12/24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Chia Pau RF Chamber

3.4 Limits for Maximum Permissible Exposure (MPE)

§ 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 ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	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

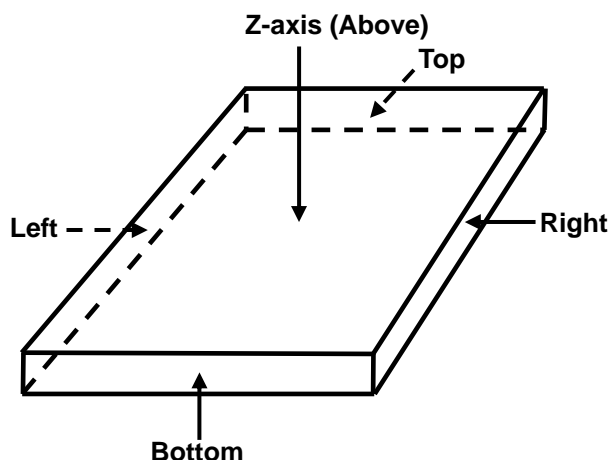
NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply 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.

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Aggregate leakage fields at 10 cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 30% of the MPE limit.

3.5 Test Point Description



4 Calculation Result Of Maximum Conducted Power

Charging Mode with Load 10% Charge

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	1.42	0.89	0.97	2.01	2.17
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.58	-613.11	-613.03	-611.99	-611.83
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-428.806	-429.177	-429.121	-428.393	-428.281

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.263	0.285	0.274	0.362	0.81
Max H-field (A/m)	0.2104	0.228	0.2192	0.2896	0.648
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4196	-1.402	-1.4108	-1.3404	-0.982
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-0.99372	-0.9814	-0.98756	-0.93828	-0.6874

Measurements were made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Load 50% Charge

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	1.41	0.99	1.01	2.15	2.69
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.59	-613.01	-612.99	-611.85	-611.31
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-428.813	-429.107	-429.093	-428.295	-427.917

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.356	0.302	0.298	0.421	0.789
Max H-field (A/m)	0.2848	0.2416	0.2384	0.3368	0.6312
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.3452	-1.3884	-1.3916	-1.2932	-0.9988
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-0.94164	-0.97188	-0.97412	-0.90524	-0.69916

Measurements were made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Load 90% Charge

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	1.9	1.18	1.3	2.45	2.96
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.1	-612.82	-612.7	-611.55	-611.04
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-428.47	-428.974	-428.89	-428.085	-427.728

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.404	0.338	0.345	0.543	0.913
Max H-field (A/m)	0.3232	0.2704	0.276	0.4344	0.7304
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.3068	-1.3596	-1.354	-1.1956	-0.8996
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-0.91476	-0.95172	-0.9478	-0.83692	-0.62972

Measurements were made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Load 3mm airgap 10% Charge

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	1.62	1.03	1.12	2.21	2.41
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.38	-612.97	-612.88	-611.79	-611.59
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-428.666	-429.079	-429.016	-428.253	-428.113

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.312	0.323	0.296	0.412	0.961
Max H-field (A/m)	0.2496	0.2584	0.2368	0.3296	0.7688
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.3804	-1.3716	-1.3932	-1.3004	-0.8612
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-0.96628	-0.96012	-0.97524	-0.91028	-0.60284

Measurements were made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Load 3mm airgap 50% Charge

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	1.62	1.01	1.21	2.29	2.77
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.38	-612.99	-612.79	-611.71	-611.23
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-428.666	-429.093	-428.953	-428.197	-427.861

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.398	0.385	0.341	0.51	0.814
Max H-field (A/m)	0.3184	0.308	0.2728	0.408	0.6512
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.3116	-1.322	-1.3572	-1.222	-0.9788
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-0.91812	-0.9254	-0.95004	-0.8554	-0.68516

Measurements were made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Load 3mm airgap 90% Charge

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	2.13	1.36	1.58	2.66	3.05
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.87	-612.64	-612.42	-611.34	-610.95
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-428.309	-428.848	-428.694	-427.938	-427.665

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.526	0.485	0.474	0.741	1.263
Max H-field (A/m)	0.4208	0.388	0.3792	0.5928	1.0104
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.2092	-1.242	-1.2508	-1.0372	-0.6196
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-0.84644	-0.8694	-0.87556	-0.72604	-0.43372

Measurements were made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with iPhone X 10% Charge

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	0.89	0.75	0.72	0.69	1.39
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.11	-613.25	-613.28	-613.31	-612.61
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-429.177	-429.275	-429.296	-429.317	-428.827

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.0885	0.087125	0.094125	0.08325	0.093375
Max H-field (A/m)	0.0708	0.0697	0.0753	0.0666	0.0747
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5592	-1.5603	-1.5547	-1.5634	-1.5553
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-1.09144	-1.09221	-1.08829	-1.09438	-1.08871

Measurements were made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with iPhone X 50% Charge

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	0.92	0.71	0.61	0.87	1.55
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.08	-613.29	-613.39	-613.13	-612.45
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-429.156	-429.303	-429.373	-429.191	-428.715

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.8925	0.9275	0.985	0.87	0.98125
Max H-field (A/m)	0.0714	0.0742	0.0788	0.0696	0.0785
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5586	-1.5558	-1.5512	-1.5604	-1.5515
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-1.09102	-1.08906	-1.08584	-1.09228	-1.08605

Measurements were made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with iPhone X 90% Charge

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	0.9	0.65	0.54	0.91	1.72
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.1	-613.35	-613.46	-613.09	-612.28
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-429.17	-429.345	-429.422	-429.163	-428.596

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.096	0.088	0.093	0.086	0.111
Max H-field (A/m)	0.0768	0.0704	0.0744	0.0688	0.0888
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5532	-1.5596	-1.5556	-1.5612	-1.5412
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-1.08724	-1.09172	-1.08892	-1.09284	-1.07884

Measurements were made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with iPhone X 3mm airgap 10% Charge

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	0.71	0.62	0.66	0.78	1.36
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.29	-613.38	-613.34	-613.22	-612.64
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-429.303	-429.366	-429.338	-429.254	-428.848

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.09675	0.091125	0.0745	0.082875	0.092625
Max H-field (A/m)	0.0774	0.0729	0.0596	0.0663	0.0741
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5526	-1.5571	-1.5704	-1.5637	-1.5559
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-1.08682	-1.08997	-1.09928	-1.09459	-1.08913

Measurements were made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with iPhone X 3mm airgap 50% Charge

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	0.67	0.58	0.62	0.74	1.22
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.33	-613.42	-613.38	-613.26	-612.78
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-429.331	-429.394	-429.366	-429.282	-428.946

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.08725	0.08975	0.0835	0.087	0.098625
Max H-field (A/m)	0.0698	0.0718	0.0668	0.0696	0.0789
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5602	-1.5582	-1.5632	-1.5604	-1.5511
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-1.09214	-1.09074	-1.09424	-1.09228	-1.08577

Measurements were made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with iPhone X 3mm airgap 90% Charge

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	0.88	0.63	0.52	0.87	1.69
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.12	-613.37	-613.48	-613.13	-612.31
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-429.184	-429.359	-429.436	-429.191	-428.617

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.096375	0.088125	0.09275	0.08575	0.111125
Max H-field (A/m)	0.0771	0.0705	0.0742	0.0686	0.0889
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5529	-1.5595	-1.5558	-1.5614	-1.5411
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-1.08703	-1.09165	-1.08906	-1.09298	-1.07877

Measurements were made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Standby Mode

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	0.92	0.81	0.75	0.76	1.58
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.08	-613.19	-613.25	-613.24	-612.42
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-429.156	-429.233	-429.275	-429.268	-428.694

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.088875	0.090375	0.08875	0.08475	0.091
Max H-field (A/m)	0.0711	0.0723	0.071	0.0678	0.0728
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5589	-1.5577	-1.559	-1.5622	-1.5572
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-1.09123	-1.09039	-1.0913	-1.09354	-1.09004

Measurements were made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

5 Photographs of the Test Configuration

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

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