

RF Exposure Test Report

Report No.: SA190130D01

FCC ID: K7SF7U053

Test Model: F7U053

Received Date: Jan. 22, 2019

Test Date: Jan. 28 ~ Feb. 1, 2019

Issued Date: Feb. 21, 2019

Applicant: Belkin International., Inc

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

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



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Table of Contents

Report Issue History Record	3
Release Control Record	3
1 Certificate of Conformity	4
2 General Information	5
2.1 General Description of EUT	5
3 RF Exposure	6
3.1 Description of Support Units	6
3.1.1 Configuration of System Under Test	6
3.2 Test Setup	7
3.3 Test Instruments	7
3.4 Limits for Maximum Permissible Exposure (MPE)	8
3.5 Test Point Description	8
4 Calculation Result of Maximum Conducted Power	9
5 Photographs of the Test Configuration	22

Report Issue History Record

Issue No.	Description	Date Issued
SA190130D01	Original release.	Feb. 21, 2019

Release Control Record

Issue No.	Description	Date Issued
SA190130D01	Original release	Feb. 21, 2019

1 Certificate of Conformity

Product: BOOST↑UP™ Wireless Charging Vent Mount 10W

Brand: belkin

Test Model: F7U053

Sample Status: Engineering sample

Applicant: Belkin International., Inc

Test Date: Jan. 28 ~ Feb. 1, 2019

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 : Annie Chang, **Date:** Feb. 21, 2019
Annie Chang / Senior Specialist

Approved by : Rex Lai, **Date:** Feb. 21, 2019
Rex Lai / Associate Technical Manager

2 General Information

2.1 General Description of EUT

Product	BOOST↑UP™ Wireless Charging Vent Mount 10W
Brand	belkin
Test Model	F7U053
Sample Status	Engineering sample
Rating	Input: 12Vdc, 2A, Output: 10W
Modulation Type	FSK
Operating Frequency	111-148kHz
Antenna Type	Coil antenna
Field Strength	85.64dBuV/m
Dimensions	14.52cm ² (diameter = 43mm)
Accessory Device	N/A
Data Cable Supplied	1.2m Non-shielded DC cable attached on EUT
Maximum Power Output from the Charging Coil	10W

Note:

1. The EUT is a BOOST↑UP™ Wireless Charging Vent Mount 10W with Qi charging function.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

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	N/A	N/A	N/A	N/A	Supplied by client (10W max load)
B.	iPhone X	Apple	A1901	NA	BCG-E3175A	Supplied by client
C.	Battery	RKSING	SMF NX120-7L	NA	N/A	Provided by Lab

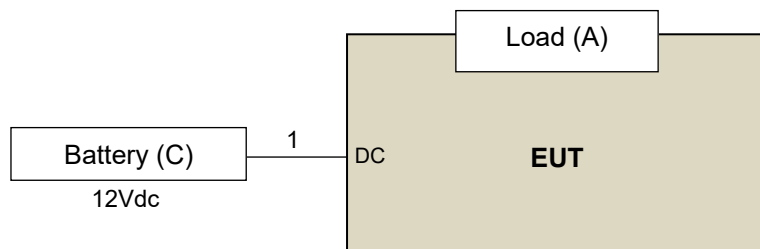
Note: All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC cable	1	1.2	N	0	Supplied by client

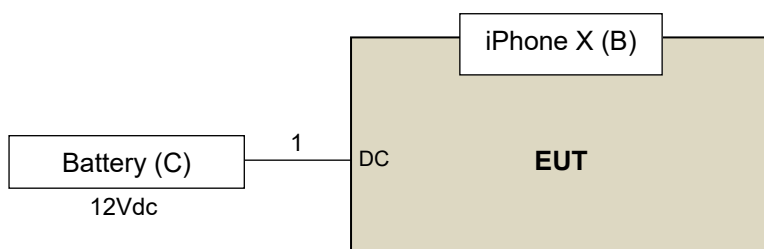
Note: The core(s) is(are) originally attached to the cable(s).

3.1.1 Configuration of System Under Test

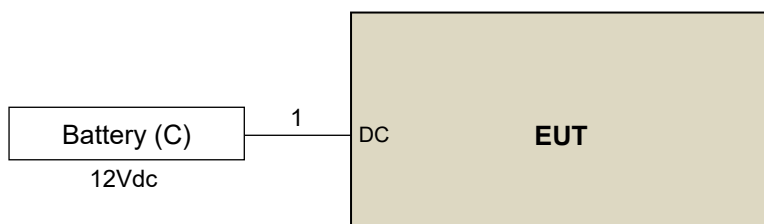
Charging Mode with Load:



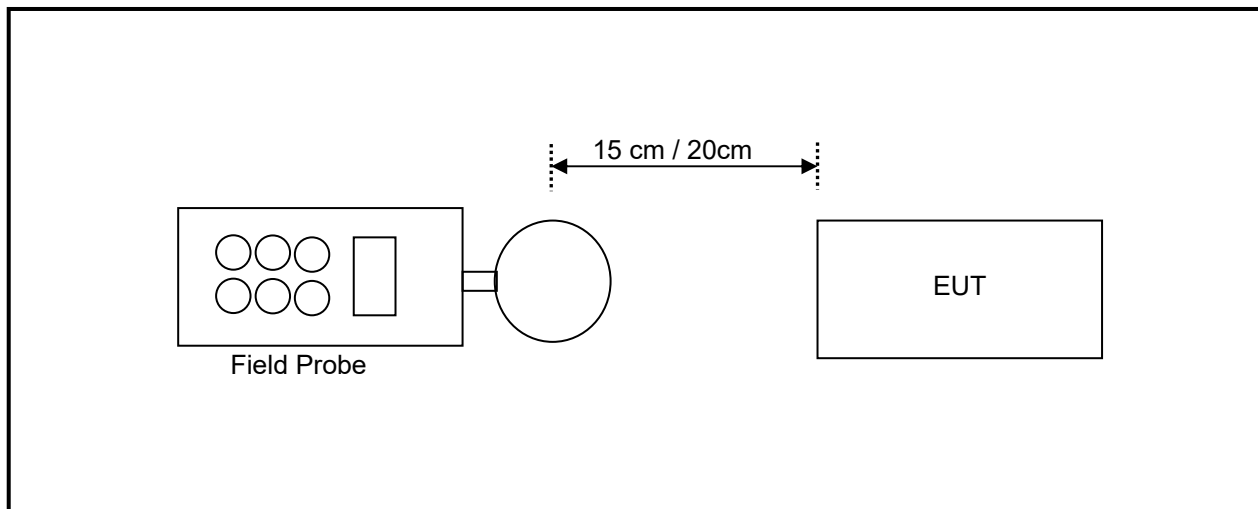
Charging Mode with iPhone:



Standby Mode:



3.2 Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 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	-	Mar. 28, 2018	Mar. 27, 2020
Magnetic Field Meter	NARDA	ELT-400	1 – 400kHz	Apr. 12, 2018	Apr. 11, 2020
Magnetic Probe	NARDA	HF-3061	300kHz – 30MHz	Apr. 16, 2018	Apr. 15, 2020
Magnetic Probe	NARDA	HF-0191	27 – 1000MHz	Apr. 17, 2018	Apr. 16, 2020
Broadband Field Meter	NARDA	NBM-550	-	Mar. 28, 2018	Mar. 27, 2020
Electric Field Meter	COMBINOVA	EFM 200	5Hz – 400kHz	Dec. 6, 2017	Dec. 5, 2019
E-Field Probe	NARDA	EF-0391	100kHz – 3GHz	Mar. 28, 2018	Mar. 27, 2020
E-Field Probe	NARDA	EF-6091	100MHz – 60GHz	Mar. 29, 2018	Mar. 28, 2020

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

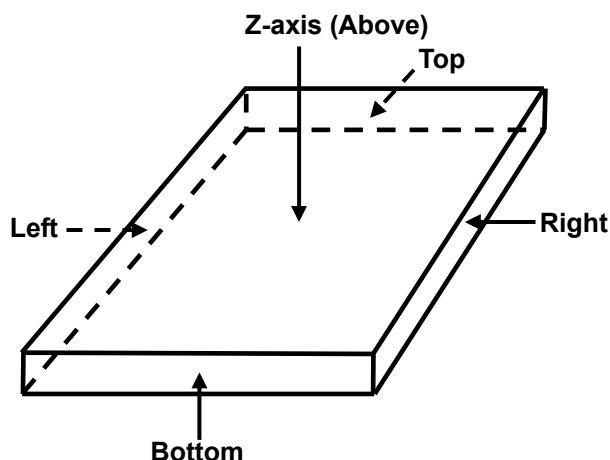
NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply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

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.

3.5 Test Point Description



4 Calculation Result of Maximum Conducted Power

Charging Mode with max Load (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.6100	0.6300	0.7400	0.5500	0.4800
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.3900	-613.3700	-613.2600	-613.4500	-613.5200
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-306.3900	-306.3700	-306.2600	-306.4500	-306.5200

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1960	0.1620	0.1640	0.1780	0.1660
Max H-field (A/m)	0.1568	0.1296	0.1312	0.1424	0.1328
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4732	-1.5004	-1.4988	-1.4876	-1.4972
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6582	-0.6854	-0.6838	-0.6726	-0.6822

Measurements were 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 with max Load (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.9100	0.6900	0.9400	0.7600	0.7500
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.0900	-613.3100	-613.0600	-613.2400	-613.2500
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-306.0900	-306.3100	-306.0600	-306.2400	-306.2500

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.2190	0.2430	0.2170	0.2810	0.2720
Max H-field (A/m)	0.1752	0.1944	0.1736	0.2248	0.2176
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4548	-1.4356	-1.4564	-1.4052	-1.4124
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6398	-0.6206	-0.6414	-0.5902	-0.5974

Measurements were 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 with max Load (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.8800	0.7100	0.7300	0.9500	0.8000
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.1200	-613.2900	-613.2700	-613.0500	-613.2000
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-306.1200	-306.2900	-306.2700	-306.0500	-306.2000

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.2210	0.2400	0.1820	0.3100	0.2690
Max H-field (A/m)	0.1768	0.1920	0.1456	0.2480	0.2152
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4532	-1.4380	-1.4844	-1.3820	-1.4148
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6382	-0.6230	-0.6694	-0.5670	-0.5998

Measurements were 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 with max Load with 3mm airgap (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.7200	0.6500	0.8100	0.8200	1.2600
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.2800	-613.3500	-613.1900	-613.1800	-612.7400
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-306.2800	-306.3500	-306.1900	-306.1800	-305.7400

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.3270	0.2950	0.3940	0.3130	0.6510
Max H-field (A/m)	0.2616	0.2360	0.3152	0.2504	0.5208
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.3684	-1.3940	-1.3148	-1.3796	-1.1092
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.5534	-0.5790	-0.4998	-0.5646	-0.2942

Measurements were 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 with max Load with 3mm airgap (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.7500	0.6900	0.9400	0.7300	1.2800
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.2500	-613.3100	-613.0600	-613.2700	-612.7200
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-306.2500	-306.3100	-306.0600	-306.2700	-305.7200

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.3290	0.2930	0.4110	0.3020	0.6560
Max H-field (A/m)	0.2632	0.2344	0.3288	0.2416	0.5248
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.3668	-1.3956	-1.3012	-1.3884	-1.1052
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.5518	-0.5806	-0.4862	-0.5734	-0.2902

Measurements were 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 with max Load with 3mm airgap (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.7400	0.6200	0.7000	0.9600	1.2800
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.2600	-613.3800	-613.3000	-613.0400	-612.7200
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-306.2600	-306.3800	-306.3000	-306.0400	-305.7200

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.3220	0.2990	0.3770	0.3350	0.6600
Max H-field (A/m)	0.2576	0.2392	0.3016	0.2680	0.5280
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.3724	-1.3908	-1.3284	-1.3620	-1.1020
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.5574	-0.5758	-0.5134	-0.5470	-0.2870

Measurements were 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 with iPhone 10% Charge (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.4600	1.5600	2.2800	1.7100	1.6800
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.5400	-612.4400	-611.7200	-612.2900	-612.3200
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.5400	-305.4400	-304.7200	-305.2900	-305.3200

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1130	0.0950	0.1010	0.1320	0.1120
Max H-field (A/m)	0.0904	0.0760	0.0808	0.1056	0.0896
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5396	-1.5540	-1.5492	-1.5244	-1.5404
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.7246	-0.7390	-0.7342	-0.7094	-0.7254

Measurements were 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 with iPhone 50% Charge (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.8600	1.9300	2.5000	2.0200	1.9800
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.1400	-612.0700	-611.5000	-611.9800	-612.0200
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.1400	-305.0700	-304.5000	-304.9800	-305.0200

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1510	0.1230	0.1070	0.1350	0.1320
Max H-field (A/m)	0.1208	0.0984	0.0856	0.1080	0.1056
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5092	-1.5316	-1.5444	-1.5220	-1.5244
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6942	-0.7166	-0.7294	-0.7070	-0.7094

Measurements were 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 with iPhone 90% Charge (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.9900	2.3100	2.6800	2.0800	2.0100
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.0100	-611.6900	-611.3200	-611.9200	-611.9900
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.0100	-304.6900	-304.3200	-304.9200	-304.9900

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1580	0.1320	0.1120	0.1460	0.1440
Max H-field (A/m)	0.1264	0.1056	0.0896	0.1168	0.1152
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5036	-1.5244	-1.5404	-1.5132	-1.5148
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6886	-0.7094	-0.7254	-0.6982	-0.6998

Measurements were 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 with iPhone 10% Charge (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.3700	1.4900	2.5800	1.6600	1.7100
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.6300	-612.5100	-611.4200	-612.3400	-612.2900
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.6300	-305.5100	-304.4200	-305.3400	-305.2900

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1280	0.1040	0.1070	0.1220	0.1130
Max H-field (A/m)	0.1024	0.0832	0.0856	0.0976	0.0904
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5276	-1.5468	-1.5444	-1.5324	-1.5396
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.7126	-0.7318	-0.7294	-0.7174	-0.7246

Measurements were 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 with iPhone 50% Charge (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.5500	1.7400	2.8100	1.8300	1.9000
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.4500	-612.2600	-611.1900	-612.1700	-612.1000
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.4500	-305.2600	-304.1900	-305.1700	-305.1000

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1510	0.1290	0.1180	0.1360	0.1280
Max H-field (A/m)	0.1208	0.1032	0.0944	0.1088	0.1024
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5092	-1.5268	-1.5356	-1.5212	-1.5276
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6942	-0.7118	-0.7206	-0.7062	-0.7126

Measurements were 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 with iPhone 90% Charge (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.6200	1.9300	3.0300	2.0800	2.1500
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.3800	-612.0700	-610.9700	-611.9200	-611.8500
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.3800	-305.0700	-303.9700	-304.9200	-304.8500

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1770	0.1480	0.1360	0.1590	0.1500
Max H-field (A/m)	0.1416	0.1184	0.1088	0.1272	0.1200
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4884	-1.5116	-1.5212	-1.5028	-1.5100
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6734	-0.6966	-0.7062	-0.6878	-0.6950

Measurements were 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 with iPhone 10% Charge (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.9600	1.7000	3.3800	2.1700	1.7200
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.0400	-612.3000	-610.6200	-611.8300	-612.2800
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.0400	-305.3000	-303.6200	-304.8300	-305.2800

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1240	0.1260	0.1670	0.2080	0.1970
Max H-field (A/m)	0.0992	0.1008	0.1336	0.1664	0.1576
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5308	-1.5292	-1.4964	-1.4636	-1.4724
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.7158	-0.7142	-0.6814	-0.6486	-0.6574

Measurements were 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 with iPhone 50% Charge (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.3600	1.4200	3.5800	2.4800	1.8300
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.6400	-612.5800	-610.4200	-611.5200	-612.1700
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-304.6400	-305.5800	-303.4200	-304.5200	-305.1700

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1620	0.1540	0.1730	0.2110	0.2170
Max H-field (A/m)	0.1296	0.1232	0.1384	0.1688	0.1736
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5004	-1.5068	-1.4916	-1.4612	-1.4564
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6854	-0.6918	-0.6766	-0.6462	-0.6414

Measurements were 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 with iPhone 90% Charge (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.4900	2.4500	3.6400	2.5400	2.0500
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.5100	-611.5500	-610.3600	-611.4600	-611.9500
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-304.5100	-304.5500	-303.3600	-304.4600	-304.9500

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1690	0.1630	0.1780	0.2220	0.2290
Max H-field (A/m)	0.1352	0.1304	0.1424	0.1776	0.1832
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4948	-1.4996	-1.4876	-1.4524	-1.4468
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6798	-0.6846	-0.6726	-0.6374	-0.6318

Measurements were 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 with iPhone 10% Charge with 3mm airgap (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.1500	1.4300	1.9800	1.3400	1.5100
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.8500	-612.5700	-612.0200	-612.6600	-612.4900
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.8500	-305.5700	-305.0200	-305.6600	-305.4900

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1130	0.0950	0.1010	0.1320	0.1120
Max H-field (A/m)	0.0904	0.0760	0.0808	0.1056	0.0896
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5396	-1.5540	-1.5492	-1.5244	-1.5404
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.7246	-0.7390	-0.7342	-0.7094	-0.7254

Measurements were 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 with iPhone 50% Charge with 3mm airgap (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.1690	1.7300	2.3500	1.8900	1.7400
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.8310	-612.2700	-611.6500	-612.1100	-612.2600
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.8310	-305.2700	-304.6500	-305.1100	-305.2600

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1660	0.1370	0.1250	0.1470	0.1550
Max H-field (A/m)	0.1328	0.1096	0.1000	0.1176	0.1240
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4972	-1.5204	-1.5300	-1.5124	-1.5060
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6822	-0.7054	-0.7150	-0.6974	-0.6910

Measurements were 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 with iPhone 90% Charge with 3mm airgap (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.8200	2.1300	2.4600	1.9400	1.9700
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.1800	-611.8700	-611.5400	-612.0600	-612.0300
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.1800	-304.8700	-304.5400	-305.0600	-305.0300

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1690	0.1450	0.1330	0.1690	0.1580
Max H-field (A/m)	0.1352	0.1160	0.1064	0.1352	0.1264
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4948	-1.5140	-1.5236	-1.4948	-1.5036
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6798	-0.6990	-0.7086	-0.6798	-0.6886

Measurements were 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 with iPhone 10% Charge with 3mm airgap (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.1300	1.2200	2.2500	1.4300	1.5800
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.8700	-612.7800	-611.7500	-612.5700	-612.4200
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.8700	-305.7800	-304.7500	-305.5700	-305.4200

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1390	0.1250	0.1540	0.1460	0.1390
Max H-field (A/m)	0.1112	0.1000	0.1232	0.1168	0.1112
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5188	-1.5300	-1.5068	-1.5132	-1.5188
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.7038	-0.7150	-0.6918	-0.6982	-0.7038

Measurements were 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 with iPhone 50% Charge with 3mm airgap (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.4200	1.5800	2.6100	1.5900	1.7200
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.5800	-612.4200	-611.3900	-612.4100	-612.2800
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.5800	-305.4200	-304.3900	-305.4100	-305.2800

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1680	0.1350	0.1350	0.1480	0.1630
Max H-field (A/m)	0.1344	0.1080	0.1080	0.1184	0.1304
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4956	-1.5220	-1.5220	-1.5116	-1.4996
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6806	-0.7070	-0.7070	-0.6966	-0.6846

Measurements were 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 with iPhone 90% Charge with 3mm airgap (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.4100	1.6200	2.7800	1.9500	2.0200
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.5900	-612.3800	-611.2200	-612.0500	-611.9800
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.5900	-305.3800	-304.2200	-305.0500	-304.9800

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1920	0.1680	0.1450	0.1770	0.1820
Max H-field (A/m)	0.1536	0.1344	0.1160	0.1416	0.1456
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4764	-1.4956	-1.5140	-1.4884	-1.4844
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6614	-0.6806	-0.6990	-0.6734	-0.6694

Measurements were 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 with iPhone 10% Charge with 3mm airgap (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.8200	1.5600	3.1000	2.0300	1.6100
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.1800	-612.4400	-610.9000	-611.9700	-612.3900
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.1800	-305.4400	-303.9000	-304.9700	-305.3900

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1420	0.1390	0.1790	0.2210	0.2060
Max H-field (A/m)	0.1136	0.1112	0.1432	0.1768	0.1648
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5164	-1.5188	-1.4868	-1.4532	-1.4652
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.7014	-0.7038	-0.6718	-0.6382	-0.6502

Measurements were 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 with iPhone 50% Charge with 3mm airgap (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.1800	1.2200	3.3200	2.1800	1.6900
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.8200	-612.7800	-610.6800	-611.8200	-612.3100
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-304.8200	-305.7800	-303.6800	-304.8200	-305.3100

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1820	0.1770	0.1920	0.2230	0.2310
Max H-field (A/m)	0.1456	0.1416	0.1536	0.1784	0.1848
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4844	-1.4884	-1.4764	-1.4516	-1.4452
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6694	-0.6734	-0.6614	-0.6366	-0.6302

Measurements were 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 with iPhone 90% Charge with 3mm airgap (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.2600	2.3100	3.4800	2.4200	1.9600
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.7400	-611.6900	-610.5200	-611.5800	-612.0400
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-304.7400	-304.6900	-303.5200	-304.5800	-305.0400

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.1790	0.1820	0.1880	0.2350	0.2410
Max H-field (A/m)	0.1432	0.1456	0.1504	0.1880	0.1928
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4868	-1.4844	-1.4796	-1.4420	-1.4372
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6718	-0.6694	-0.6646	-0.6270	-0.6222

Measurements were 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.

Standby Mode

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.2100	0.1900	0.2100	0.2200	0.2200
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.7900	-613.8100	-613.7900	-613.7800	-613.7800
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-306.7900	-306.8100	-306.7900	-306.7800	-306.7800

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.0880	0.0860	0.0780	0.0850	0.1060
Max H-field (A/m)	0.0704	0.0688	0.0624	0.0680	0.0848
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5596	-1.5612	-1.5676	-1.5620	-1.5452
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.7446	-0.7462	-0.7526	-0.7470	-0.7302

Measurements were 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.

5 Photographs of the Test Configuration

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

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