

RF Exposure Report

Report No.: SA200617C01

FCC ID: K7SWIZ006

Test Model: WIZ006

Received Date: Jun. 17, 2020

Test Date: Jul. 10 ~ Aug. 25, 2020

Issued Date: Sep. 04, 2020

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:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
SA200617C01	Original release	Sep. 04, 2020

1 Certificate of Conformity

Product: BOOST ↑ CHARGE™ True Freedom Pro Wireless Charger
Brand: belkin
Test Model: WIZ006
Sample Status: Engineering sample
Applicant: Belkin International, Inc.
Test Date: Jul. 10 ~ Aug. 25, 2020
Standards: FCC Part 1 (Section 1.1307(b), Section 1.1310)
FCC Part 2 (Section 2.1091)
References Test Guidance: IEEE C95.3 -2002
KDB 680106 D01 RF Exposure Wireless Charging Apps v03

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 : Celine Chou , **Date:** Sep. 04, 2020
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Sep. 04, 2020
Bruce Chen / Senior Project Engineer

2 General Information

2.1 General Description of EUT

Product	BOOST ↑ CHARGE™ True Freedom Pro Wireless Charger
Brand	belkin
Test Model	WIZ006
Sample Status	Engineering sample
Power Supply Rating	15Vdc (Adapter)
Modulation Type	FSK
Operating Frequency	127.7 kHz
Antenna Type	Coil antenna
Field Strength	83.4dBuV/m
Dimension	153.816cm ² (Length = 174mm, width = 88.4mm)
Maximum Power Output	Max power of 10W per coil or 20W total when using two coils
Accessory Device	Adapter
Data Cable Supplied	NA

Note: The EUT uses following adapter.

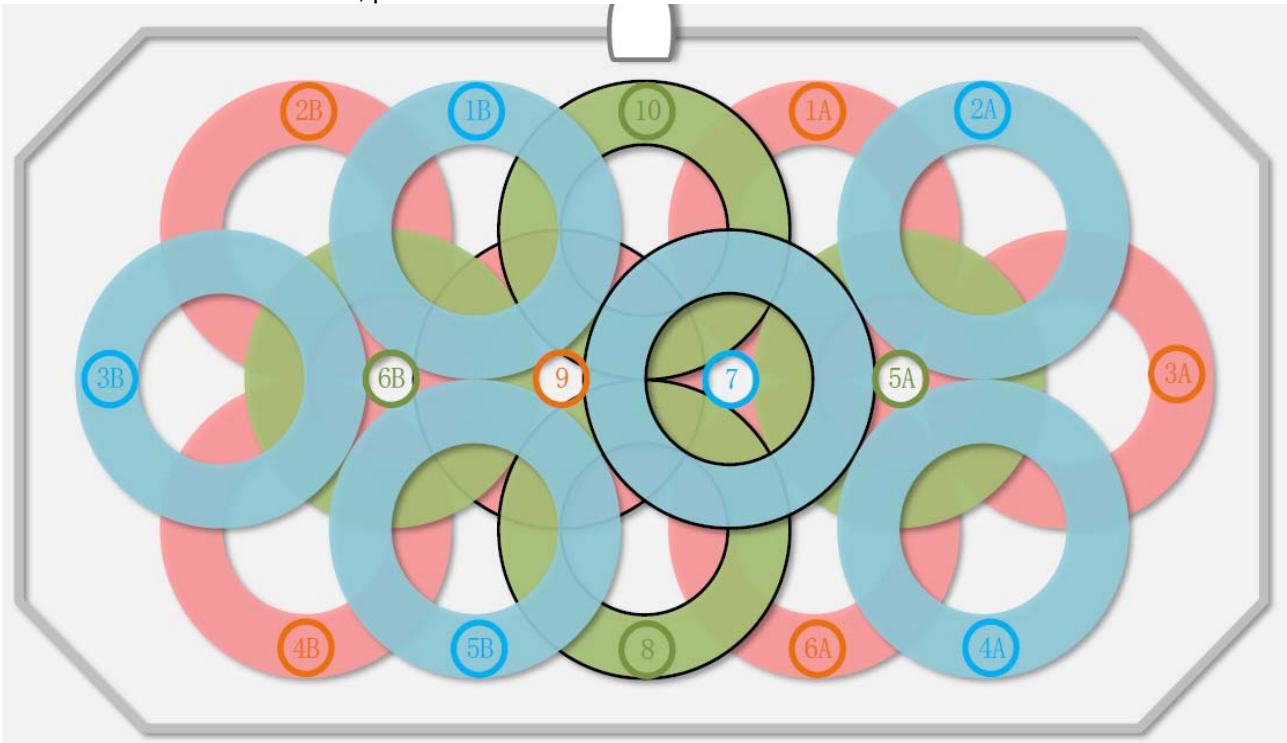
Brand	belkin
Model	DSA-30PFL-12 FUS 150200
Input Power	100-240Vac, 50/60Hz, 0.8A
Output Power	15Vdc, 2.0A, 30W
Power Line	1.17m DC cable without core attached on adapter

2.2 Description of Test Modes

1 channel is provided to this EUT

Channel	Freq. (kHz)
1	127.7

The product contain 16 coils, and can charge maxima 2 client devices simultaneously. After evaluation, we chosen 36 modes for final test, please see as below for more details.



Test Mode		Note
1. iPhone	Charging 1% & 50% & 99%	The long axis of the iPhone is perpendicular with coil 3A for KDB required
2. iPhone	Charging 1% & 50% & 99%	The long axis of the iPhone is perpendicular with coil 3B for KDB required
3. AirPods	Charging 1% & 50% & 99%	With Coil 3A
4. AirPods	Charging 1% & 50% & 99%	With Coil 3B
5. iPhone	Charging 1%	With Coil 1A
6. iPhone	Charging 1%	With Coil 1B
7. iPhone	Charging 1%	With Coil 2A
8. iPhone	Charging 1%	With Coil 2B
9. iPhone	Charging 1%	With Coil 4A
10. iPhone	Charging 1%	With Coil 4B
11. iPhone	Charging 1%	With Coil 5A
12. iPhone	Charging 1%	With Coil 5B
13. iPhone	Charging 1%	With Coil 6A
14. iPhone	Charging 1%	With Coil 6B
15. iPhone	Charging 1%	The long axis of the iPhone is perpendicular with coil 7 for KDB required
16. iPhone	Charging 1%	With Coil 8
17. iPhone	Charging 1%	With Coil 9
18. iPhone	Charging 1%	With Coil 10
19. iPhone	Charging 1%	Coils 3A + 3B
20. iPhone	Charging 1%	With Coil 3B+4B
21. iPhone	Charging 1%	With Coil 3A+2A
22. iPhone	Charging 1%	Coils 3A+2A with 3B+4B
23. iPhone	Charging 1%	The long axis of the iPhone is parallel with coil 10 for KDB required
24. iPhone	Charging 1%	The long axis of the iPhone is parallel with coil 7 for KDB required
25. iPhone	Charging 1%	The long axis of the iPhone is parallel with coil 8 for KDB required
26. Standby	Charging 1%	-
27. iPhone with AirPods	Charging 1%	3B (iPhone) + 3A (AirPods)
28. iPhone with AirPods	Charging 1%	3B (AirPods) + 3A (iPhone)
29. iPhone with AirPods	Charging 1%	3B+4B (iPhone) + 3A (AirPods)
30. iPhone with AirPods	Charging 1%	3B (AirPods) + (3A+2A) (iPhone)
31. iPhone (worst mode)	Charging 1%	With Coil 3B (test distance with minimum)
32. iPhone	Charging 1% & 50% & 99%	Charger with coil 3B_100%
33. iPhone	Charging 1%	Charger with coil 3B_Left_50%
34. iPhone	Charging 1%	Charger with coil 3B_Left_20%
35. iPhone	Charging 1%	Charger with coil 3B_Right_50%
36. iPhone	Charging 1%	Charger with coil 3B_Right_20%

Note:

1. AirPods cannot induction two coils operating simultaneously under charging condition.
2. When the iPhone is on the pad and the long axis of the iPhone is parallel to the long axis of the charging pad, the charging pad cannot support charge iPhone and AirPods simultaneously
3. WIZ006 did not support charging for iwatch.

3 RF Exposure

3.1 Description of Support Units

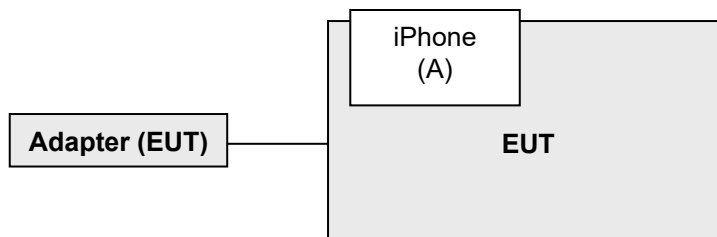
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	iPhone	APPLE	A2215	NA	NA	-
B.	iPhone	APPLE	A1897	NA	NA	-
C.	AirPods	APPLE	A2031, A2032, A1938	NA	NA	-

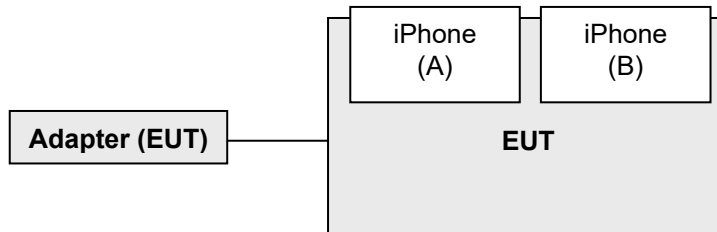
3.1.1 Configuration of System under Test

Charging Mode:

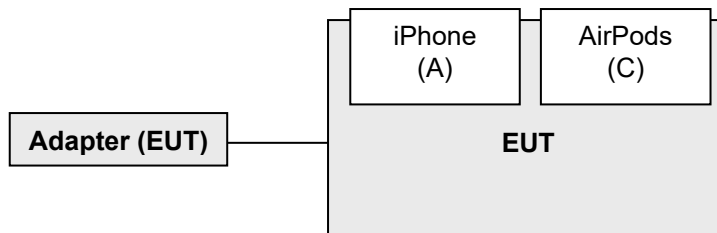
EUT wireless charging to iPhone



EUT wireless charging to two iPhones



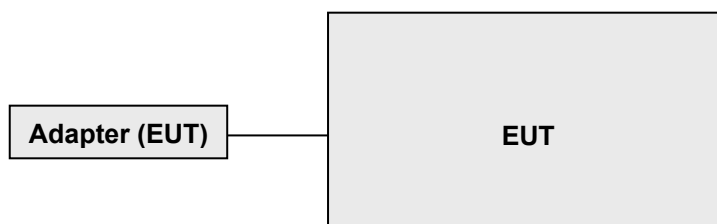
EUT wireless charging to iPhone and AirPods



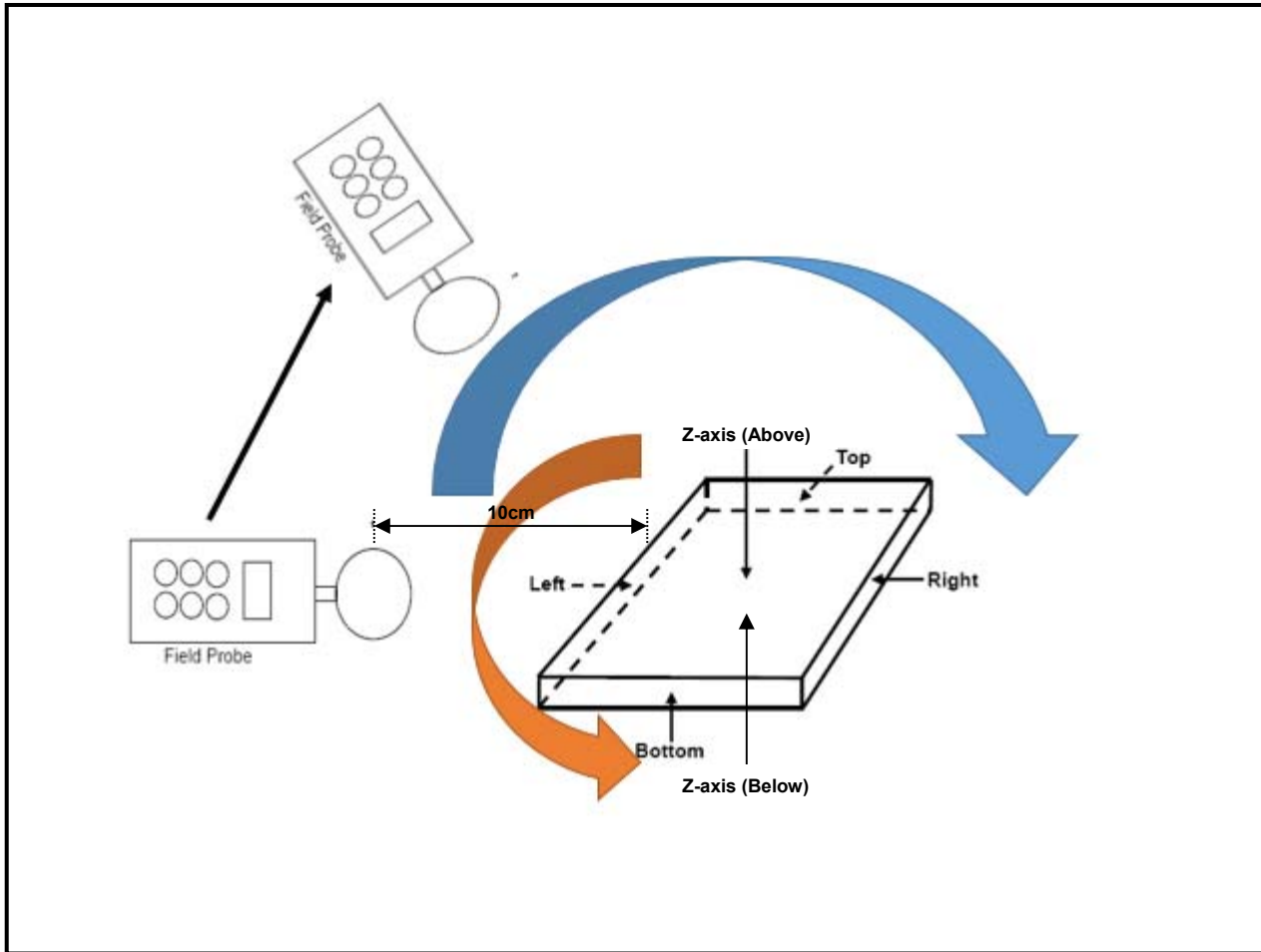
Note: For all test configurations please refer to operation description exhibit.

Standby Mode:

EUT only



3.2 Test Setup and Test Point Description



Note: Measurements were made from all sides and the top of the primary/client pair, with the 10cm measured from the center of the probe(s) to the edge of the device, except test modes 31.

3.3 Test Instruments

Description	Brand	Model No.	Frequency Range	Calibrated Date	Calibrated Until
Broadband Field Meter	NARDA	NBM-550	-	Mar. 25, 2020	Mar. 24, 2022
Magnetic Field Meter	NARDA	ELT-400	1Hz – 400MHz	Apr. 17, 2020	Apr. 16, 2022
Magnetic Probe	NARDA	HF-3061	300kHz – 30MHz	Apr. 16, 2020	Apr. 15, 2022
Magnetic Probe	NARDA	HF-0191	27 – 1000MHz	Apr. 21, 2020	Apr. 20, 2022
Broadband Field Meter	NARDA	NBM-550	-	Mar. 25, 2020	Mar. 24, 2022
Electric Field Meter	COMBINOVA	EFM 200	5Hz – 400kHz	Dec. 06, 2019	Dec. 05, 2021
E-Field Probe	NARDA	EF-0391	100kHz – 3GHz	Mar. 25, 2020	Mar. 24, 2022
E-Field Probe	NARDA	EF-6091	100MHz – 60GHz	Mar. 25, 2020	Mar. 24, 2022

Note: 1. The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa 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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The aggregate H-fields strengths at 10 cm and/or minimum distance surrounding the device for all surfaces from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

For testing guidance are under additional KDB inquiry which approved by FCC

4. Measurement Result of Maximum Field Strength

Test modes of Normal Circumstances

Test Mode	Test Setup	Battery Level	EUT Site & Distance	Test result H-Field (A/m) (Average value)	Test result E-Field (V/m) (Average value)	H-Field 50% limit (A/m)	E-Field 50% limit (V/m)	H-Field Margin (A/m)	E-Field margin (V/m)
1	The long axis of the iPhone is Perpendicular with coil 3A for KDB required	1%	Left (10cm)	0.221	1.81	0.815	307	0.594	305.19
			Right (10cm)	0.226	1.77			0.589	305.23
			Top (10cm)	0.225	1.02			0.590	305.98
			Bottom (10cm)	0.229	1.11			0.586	305.89
			Z-axis (Below) (10cm)	0.235	0.39			0.580	306.61
			Z-axis (Above) (10cm)	0.245	2.81			0.570	304.19
		50%	Left (10cm)	0.220	1.71			0.595	305.29
			Right (10cm)	0.235	1.65			0.580	305.35
			Top (10cm)	0.213	1.02			0.602	305.98
			Bottom (10cm)	0.239	1.10			0.576	305.90
			Z-axis (Below) (10cm)	0.204	0.38			0.611	306.62
			Z-axis (Above) (10cm)	0.248	2.65			0.567	304.35
		99%	Left (10cm)	0.271	1.67			0.544	305.33
			Right (10cm)	0.250	1.65			0.565	305.35
			Top (10cm)	0.242	1.07			0.573	305.93
			Bottom (10cm)	0.241	1.11			0.574	305.89
			Z-axis (Below) (10cm)	0.224	0.37			0.591	306.63
			Z-axis (Above) (10cm)	0.249	2.59			0.566	304.41
2	The long axis of the iPhone is Perpendicular with coil 3B for KDB required (Worse)	1% (Worse)	Left (10cm)	0.225	1.85	0.815	307	0.590	305.15
			Right (10cm)	0.228	1.78			0.587	305.22
			Top (10cm)	0.229	1.06			0.586	305.94
			Bottom (10cm)	0.231	1.14			0.584	305.86
			Z-axis (Below) (10cm)	0.239	0.41			0.576	306.59
			Z-axis (Above) (10cm)	0.281	2.84			0.534	304.16
		50%	Left (10cm)	0.211	1.74			0.604	305.26
			Right (10cm)	0.236	1.69			0.579	305.31
			Top (10cm)	0.214	1.05			0.601	305.95
			Bottom (10cm)	0.241	1.11			0.574	305.89
			Z-axis (Below) (10cm)	0.214	0.39			0.601	306.61
			Z-axis (Above) (10cm)	0.253	2.71			0.562	304.29
		99%	Left (10cm)	0.245	1.69			0.570	305.31
			Right (10cm)	0.254	1.70			0.561	305.30
			Top (10cm)	0.251	1.02			0.564	305.98
			Bottom (10cm)	0.244	1.16			0.571	305.84
			Z-axis (Below) (10cm)	0.263	0.38			0.552	306.62
			Z-axis (Above) (10cm)	0.251	2.62			0.564	304.38

Note:

- The measurement antenna are move and surround the EUT when performed the test, the test results recorded as above are the highest values for each sides(left/right/top/bottom/z-axis)
- EUT can pass the limit of 50%, so we can judge that it can also pass under the limit of 100%.
 H-Field 50% limit = $1.63 \times 0.5 = 0.815$ A/m
 E-Field 50% limit = $614 \times 0.5 = 307$ V/m

Test Mode	Test Setup	Battery Level	EUT Site & Distance	Test result H-Field (A/m) (Average value)	Test result E-Field (V/m) (Average value)	H-Field 50% limit (A/m)	E-Field 50% limit (V/m)	H-Field Margin (A/m)	E-Field margin (V/m)
3	AirPods with Coil 3A	1%	Left (10cm)	0.213	1.73	0.815	307	0.602	305.27
			Right (10cm)	0.216	1.66			0.599	305.34
			Top (10cm)	0.217	0.94			0.598	306.06
			Bottom (10cm)	0.219	1.02			0.596	305.98
			Z-axis (Below) (10cm)	0.227	0.29			0.588	306.71
			Z-axis (Above) (10cm)	0.263	2.72			0.552	304.28
		50%	Left (10cm)	0.199	1.62			0.616	305.38
			Right (10cm)	0.224	1.57			0.591	305.43
			Top (10cm)	0.202	0.93			0.613	306.07
			Bottom (10cm)	0.229	0.99			0.586	306.01
			Z-axis (Below) (10cm)	0.202	0.27			0.613	306.73
			Z-axis (Above) (10cm)	0.241	2.59			0.574	304.41
		99%	Left (10cm)	0.269	1.57			0.546	305.43
			Right (10cm)	0.242	1.58			0.573	305.42
			Top (10cm)	0.239	0.90			0.576	306.10
			Bottom (10cm)	0.232	1.04			0.583	305.96
			Z-axis (Below) (10cm)	0.251	0.26			0.564	306.74
			Z-axis (Above) (10cm)	0.259	2.50			0.556	304.50
4	AirPods with Coil 3B	1%	Left (10cm)	0.209	1.69	0.815	307	0.606	305.31
			Right (10cm)	0.214	1.65			0.601	305.35
			Top (10cm)	0.213	0.90			0.602	306.10
			Bottom (10cm)	0.217	0.99			0.598	306.01
			Z-axis (Below) (10cm)	0.223	0.27			0.592	306.73
			Z-axis (Above) (10cm)	0.262	2.69			0.553	304.31
		50%	Left (10cm)	0.208	1.59			0.607	305.41
			Right (10cm)	0.223	1.53			0.592	305.47
			Top (10cm)	0.201	0.87			0.614	306.13
			Bottom (10cm)	0.227	0.95			0.588	306.05
			Z-axis (Below) (10cm)	0.192	0.26			0.623	306.74
			Z-axis (Above) (10cm)	0.235	2.53			0.580	304.47
		99%	Left (10cm)	0.259	1.55			0.556	305.45
			Right (10cm)	0.238	1.53			0.577	305.47
			Top (10cm)	0.237	0.95			0.578	306.05
			Bottom (10cm)	0.217	0.99			0.598	306.01
			Z-axis (Below) (10cm)	0.247	0.25			0.568	306.75
			Z-axis (Above) (10cm)	0.251	2.47			0.564	304.53

Note:

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- EUT can pass the limit of 50%, so we can judge that it can also pass under the limit of 100%.
H-Field 50% limit = $1.63 \times 0.5 = 0.815$ A/m
E-Field 50% limit = $614 \times 0.5 = 307$ V/m

Test Mode	Test Setup	Battery Level	EUT Site & Distance	Test result H-Field (A/m) (Average value)	Test result E-Field (V/m) (Average value)	H-Field 50% limit (A/m)	E-Field 50% limit (V/m)	H-Field Margin (A/m)	E-Field margin (V/m)
5	iPhone with Coil 1A	1%	Left (10cm)	0.221	1.81	0.815	307	0.594	305.19
			Right (10cm)	0.231	1.76			0.584	305.24
			Top (10cm)	0.214	1.03			0.601	305.97
			Bottom (10cm)	0.227	1.14			0.588	305.86
			Z-axis (Below) (10cm)	0.231	0.42			0.584	306.58
			Z-axis (Above) (10cm)	0.271	2.71			0.544	304.29
6	iPhone with Coil 1B	1%	Left (10cm)	0.211	1.78	0.815	307	0.604	305.22
			Right (10cm)	0.230	1.74			0.585	305.26
			Top (10cm)	0.201	1.13			0.614	305.87
			Bottom (10cm)	0.217	1.22			0.598	305.78
			Z-axis (Below) (10cm)	0.224	0.45			0.591	306.55
			Z-axis (Above) (10cm)	0.265	2.63			0.550	304.37
7	iPhone with Coil 2A	1%	Left (10cm)	0.218	1.74	0.815	307	0.597	305.26
			Right (10cm)	0.221	1.69			0.594	305.31
			Top (10cm)	0.209	1.21			0.606	305.79
			Bottom (10cm)	0.221	1.26			0.594	305.74
			Z-axis (Below) (10cm)	0.214	0.49			0.601	306.51
			Z-axis (Above) (10cm)	0.256	2.58			0.559	304.42
8	iPhone with Coil 2B	1%	Left (10cm)	0.231	1.77	0.815	307	0.584	305.23
			Right (10cm)	0.221	1.73			0.594	305.27
			Top (10cm)	0.214	1.11			0.601	305.89
			Bottom (10cm)	0.216	1.14			0.599	305.86
			Z-axis (Below) (10cm)	0.224	0.47			0.591	306.53
			Z-axis (Above) (10cm)	0.261	2.69			0.554	304.31
9	iPhone with Coil 4A	1%	Left (10cm)	0.214	1.69	0.815	307	0.601	305.31
			Right (10cm)	0.221	1.71			0.594	305.29
			Top (10cm)	0.211	1.13			0.604	305.87
			Bottom (10cm)	0.233	1.21			0.582	305.79
			Z-axis (Below) (10cm)	0.231	0.51			0.584	306.49
			Z-axis (Above) (10cm)	0.251	2.54			0.564	304.46
10	iPhone with Coil 4B	1%	Left (10cm)	0.211	1.65	0.815	307	0.604	305.35
			Right (10cm)	0.213	1.69			0.602	305.31
			Top (10cm)	0.201	1.13			0.614	305.87
			Bottom (10cm)	0.214	1.35			0.601	305.65
			Z-axis (Below) (10cm)	0.221	0.44			0.594	306.56
			Z-axis (Above) (10cm)	0.241	2.47			0.574	304.53

Note:

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- EUT can pass the limit of 50%, so we can judge that it can also pass under the limit of 100%.
H-Field 50% limit = $1.63 \times 0.5 = 0.815$ A/m
E-Field 50% limit = $614 \times 0.5 = 307$ V/m

Test Mode	Test Setup	Battery Level	EUT Site & Distance	Test result H-Field (A/m) (Average value)	Test result E-Field (V/m) (Average value)	H-Field 50% limit (A/m)	E-Field 50% limit (V/m)	H-Field Margin (A/m)	E-Field margin (V/m)
11	iPhone with Coil 5A	1%	Left (10cm)	0.214	1.69	0.815	307	0.601	305.31
			Right (10cm)	0.223	1.65			0.592	305.35
			Top (10cm)	0.216	1.21			0.599	305.79
			Bottom (10cm)	0.223	1.20			0.592	305.80
			Z-axis (Below) (10cm)	0.214	0.44			0.601	306.56
			Z-axis (Above) (10cm)	0.231	2.39			0.584	304.61
12	iPhone with Coil 5B	1%	Left (10cm)	0.214	1.61	0.815	307	0.601	305.39
			Right (10cm)	0.231	1.72			0.584	305.28
			Top (10cm)	0.213	1.15			0.602	305.85
			Bottom (10cm)	0.214	1.23			0.601	305.77
			Z-axis (Below) (10cm)	0.223	0.44			0.592	306.56
			Z-axis (Above) (10cm)	0.241	2.45			0.574	304.55
13	iPhone with Coil 6A	1%	Left (10cm)	0.204	1.64	0.815	307	0.611	305.36
			Right (10cm)	0.213	1.68			0.602	305.32
			Top (10cm)	0.221	1.16			0.594	305.84
			Bottom (10cm)	0.214	1.26			0.601	305.74
			Z-axis (Below) (10cm)	0.221	0.42			0.594	306.58
			Z-axis (Above) (10cm)	0.226	2.47			0.589	304.53
14	iPhone with Coil 6B	1%	Left (10cm)	0.212	1.71	0.815	307	0.603	305.29
			Right (10cm)	0.231	1.65			0.584	305.35
			Top (10cm)	0.221	1.15			0.594	305.85
			Bottom (10cm)	0.214	1.23			0.601	305.77
			Z-axis (Below) (10cm)	0.212	0.43			0.603	306.57
			Z-axis (Above) (10cm)	0.245	2.51			0.570	304.49
15	The long axis of the iPhone is Perpendicular with coil 7 for KDB required	1%	Left (10cm)	0.211	1.73	0.815	307	0.604	305.27
			Right (10cm)	0.208	1.72			0.607	305.28
			Top (10cm)	0.213	1.31			0.602	305.69
			Bottom (10cm)	0.210	1.25			0.605	305.75
			Z-axis (Below) (10cm)	0.214	0.47			0.601	306.53
			Z-axis (Above) (10cm)	0.241	2.51			0.574	304.49
16	iPhone with Coil 8	1%	Left (10cm)	0.221	1.77	0.815	307	0.594	305.23
			Right (10cm)	0.214	1.73			0.601	305.27
			Top (10cm)	0.198	1.15			0.617	305.85
			Bottom (10cm)	0.216	1.26			0.599	305.74
			Z-axis (Below) (10cm)	0.221	0.44			0.594	306.56
			Z-axis (Above) (10cm)	0.261	2.61			0.554	304.39

Note:

- The measurement antenna are move and surround the EUT when performed the test, the test results recorded as above are the highest values for each sides(left/right/top/bottom/z-axis)
- EUT can pass the limit of 50%, so we can judge that it can also pass under the limit of 100%.
H-Field 50% limit = $1.63 \times 0.5 = 0.815$ A/m
E-Field 50% limit = $614 \times 0.5 = 307$ V/m

Test Mode	Test Setup	Battery Level	EUT Site & Distance	Test result H-Field (A/m) (Average value)	Test result E-Field (V/m) (Average value)	H-Field 50% limit (A/m)	E-Field 50% limit (V/m)	H-Field Margin (A/m)	E-Field margin (V/m)
17	iPhone with Coil 9	1%	Left (10cm)	0.221	1.73	0.815	307	0.594	305.27
			Right (10cm)	0.213	1.72			0.602	305.28
			Top (10cm)	0.205	1.10			0.610	305.90
			Bottom (10cm)	0.211	1.13			0.604	305.87
			Z-axis (Below) (10cm)	0.214	0.42			0.601	306.58
			Z-axis (Above) (10cm)	0.251	2.51			0.564	304.49
18	iPhone with Coil 10	1%	Left (10cm)	0.221	1.72	0.815	307	0.594	305.28
			Right (10cm)	0.201	1.70			0.614	305.30
			Top (10cm)	0.206	1.11			0.609	305.89
			Bottom (10cm)	0.202	1.13			0.613	305.87
			Z-axis (Below) (10cm)	0.216	0.46			0.599	306.54
			Z-axis (Above) (10cm)	0.251	2.62			0.564	304.38
19	iPhone with Coils 3A + 3B	1%	Left (10cm)	0.248	1.06	0.815	307	0.567	305.94
			Right (10cm)	0.231	1.72			0.584	305.28
			Top (10cm)	0.230	1.48			0.585	305.52
			Bottom (10cm)	0.225	1.32			0.590	305.68
			Z-axis (Below) (10cm)	0.214	0.55			0.601	306.45
			Z-axis (Above) (10cm)	0.275	1.77			0.540	305.23
20	iPhone with Coils 3B+4B	1%	Left (10cm)	0.247	1.11	0.815	307	0.568	305.89
			Right (10cm)	0.226	1.70			0.589	305.30
			Top (10cm)	0.228	1.42			0.587	305.58
			Bottom (10cm)	0.224	1.36			0.591	305.64
			Z-axis (Below) (10cm)	0.205	0.59			0.610	306.41
			Z-axis (Above) (10cm)	0.261	1.72			0.554	305.28
21	iPhone with Coils 3A+2A	1%	Left (10cm)	0.234	1.13	0.815	307	0.581	305.87
			Right (10cm)	0.217	1.42			0.598	305.58
			Top (10cm)	0.216	1.35			0.599	305.65
			Bottom (10cm)	0.235	1.69			0.580	305.31
			Z-axis (Below) (10cm)	0.204	0.51			0.611	306.49
			Z-axis (Above) (10cm)	0.264	1.77			0.551	305.23
22	iPhone with Coils 3A+2A with 3B+4B	1%	Left (10cm)	0.224	1.14	0.815	307	0.591	305.86
			Right (10cm)	0.216	1.69			0.599	305.31
			Top (10cm)	0.229	1.38			0.586	305.62
			Bottom (10cm)	0.231	1.45			0.584	305.55
			Z-axis (Below) (10cm)	0.221	0.49			0.594	306.51
			Z-axis (Above) (10cm)	0.264	1.72			0.551	305.28

Note:

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- EUT can pass the limit of 50%, so we can judge that it can also pass under the limit of 100%.
H-Field 50% limit = $1.63 \times 0.5 = 0.815$ A/m
E-Field 50% limit = $614 \times 0.5 = 307$ V/m

Test Mode	Test Setup	Battery Level	EUT Site & Distance	Test result H-Field (A/m) (Average value)	Test result E-Field (V/m) (Average value)	H-Field 50% limit (A/m)	E-Field 50% limit (V/m)	H-Field Margin (A/m)	E-Field margin (V/m)
23	The long axis of the iPhone is parallel with coil 10 for KDB required	1%	Left (10cm)	0.236	0.83	0.815	307	0.579	306.17
			Right (10cm)	0.231	1.01			0.584	305.99
			Top (10cm)	0.229	0.86			0.586	306.14
			Bottom (10cm)	0.213	0.66			0.602	306.34
			Z-axis (Below) (10cm)	0.234	0.37			0.581	306.63
			Z-axis (Above) (10cm)	0.251	1.20			0.564	305.80
24	The long axis of the iPhone is parallel with coil 7 for KDB required	1%	Left (10cm)	0.227	0.84	0.815	307	0.588	306.16
			Right (10cm)	0.236	1.13			0.579	305.87
			Top (10cm)	0.218	0.88			0.597	306.12
			Bottom (10cm)	0.235	0.69			0.580	306.31
			Z-axis (Below) (10cm)	0.224	0.39			0.591	306.61
			Z-axis (Above) (10cm)	0.246	1.23			0.569	305.77
25	The long axis of the iPhone is parallel with coil 8 for KDB required	1%	Left (10cm)	0.214	0.81	0.815	307	0.601	306.19
			Right (10cm)	0.226	1.11			0.589	305.89
			Top (10cm)	0.234	0.92			0.581	306.08
			Bottom (10cm)	0.231	0.72			0.584	306.28
			Z-axis (Below) (10cm)	0.221	0.41			0.594	306.59
			Z-axis (Above) (10cm)	0.241	1.25			0.574	305.75
26	Standby	1%	Left (10cm)	0.123	0.23	0.815	307	0.692	306.77
			Right (10cm)	0.113	0.22			0.702	306.78
			Top (10cm)	0.102	0.21			0.713	306.79
			Bottom (10cm)	0.142	0.19			0.673	306.81
			Z-axis (Below) (10cm)	0.112	0.24			0.703	306.76
			Z-axis (Above) (10cm)	0.144	0.26			0.671	306.74
27	3B(iPhone)+3A(Air Pods)	1%	Left (10cm)	0.227	2.47	0.815	307	0.588	304.53
			Right (10cm)	0.125	1.61			0.690	305.39
			Top (10cm)	0.213	2.45			0.602	304.55
			Bottom (10cm)	0.198	2.17			0.617	304.83
			Z-axis (Below) (10cm)	0.165	0.35			0.650	306.65
			Z-axis (Above) (10cm)	0.201	2.66			0.614	304.34
28	3B(AirPods)+3A(iPhone)	1%	Left (10cm)	0.148	1.73	0.815	307	0.667	305.27
			Right (10cm)	0.243	2.66			0.572	304.34
			Top (10cm)	0.221	2.75			0.594	304.25
			Bottom (10cm)	0.195	2.36			0.620	304.64
			Z-axis (Below) (10cm)	0.112	0.42			0.703	306.58
			Z-axis (Above) (10cm)	0.215	2.77			0.600	304.23

Note:

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- EUT can pass the limit of 50%, so we can judge that it can also pass under the limit of 100%.
H-Field 50% limit = $1.63 \times 0.5 = 0.815$ A/m
E-Field 50% limit = $614 \times 0.5 = 307$ V/m

Test Mode	Test Setup	Battery Level	EUT Site & Distance	Test result H-Field (A/m) (Average value)	Test result E-Field (V/m) (Average value)	H-Field 50% limit (A/m)	E-Field 50% limit (V/m)	H-Field Margin (A/m)	E-Field margin (V/m)
29	3B+4B(iPhone)+3A(AirPods)	1%	Left (10cm)	0.248	1.92	0.815	307	0.567	305.08
			Right (10cm)	0.145	1.80			0.670	305.20
			Top (10cm)	0.219	2.53			0.596	304.47
			Bottom (10cm)	0.224	2.02			0.591	304.98
			Z-axis (Below) (10cm)	0.214	0.45			0.601	306.55
			Z-axis (Above) (10cm)	0.251	2.72			0.564	304.28
30	3B(AirPods)+(3A+2A)(iPhone)	1%	Left (10cm)	0.154	1.96	0.815	307	0.661	305.04
			Right (10cm)	0.253	1.56			0.562	305.44
			Top (10cm)	0.241	2.67			0.574	304.33
			Bottom (10cm)	0.229	2.06			0.586	304.94
			Z-axis (Below) (10cm)	0.201	0.39			0.614	306.61
			Z-axis (Above) (10cm)	0.255	2.71			0.560	304.29
31	iPhone with Coil 3B	1%	Left (minimum)	0.384	5.80	0.815	307	0.431	301.20
			Right (minimum)	0.795	6.18			0.020	300.82
			Top (minimum)	0.278	6.58			0.537	300.42
			Bottom (minimum)	0.691	2.57			0.124	304.43
			Z-axis (Below) (minimum)	0.204	0.31			0.611	306.69
			Z-axis (Above) (minimum)	0.741	8.90			0.074	298.10

Note:

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- EUT can pass the limit of 50%, so we can judge that it can also pass under the limit of 100%.
H-Field 50% limit = $1.63 \times 0.5 = 0.815$ A/m
E-Field 50% limit = $614 \times 0.5 = 307$ V/m

Test modes of aligned with transmit coil coverage percentage

Test Mode	Test Setup	Battery Level	EUT Site & Distance	Test result H-Field (A/m) (Average value)	Test result E-Field (V/m) (Average value)	H-Field 50% limit (A/m)	E-Field 50% limit (V/m)	H-Field Margin (A/m)	E-Field margin (V/m)
32	Chargering with coil 3B_100%	1% (Worse)	Left (10cm)	0.225	1.85	0.815	307	0.590	305.15
			Right (10cm)	0.228	1.78			0.587	305.22
			Top (10cm)	0.229	1.06			0.586	305.94
			Bottom (10cm)	0.231	1.14			0.584	305.86
			Z-axis (Below) (10cm)	0.239	0.41			0.576	306.59
			Z-axis (Above) (10cm)	0.281	2.84			0.534	304.16
		50%	Left (10cm)	0.211	1.74			0.604	305.26
			Right (10cm)	0.236	1.69			0.579	305.31
			Top (10cm)	0.214	1.05			0.601	305.95
			Bottom (10cm)	0.241	1.11			0.574	305.89
			Z-axis (Below) (10cm)	0.214	0.39			0.601	306.61
			Z-axis (Above) (10cm)	0.253	2.71			0.562	304.29
		99%	Left (10cm)	0.245	1.69			0.570	305.31
			Right (10cm)	0.254	1.70			0.561	305.30
			Top (10cm)	0.251	1.02			0.564	305.98
			Bottom (10cm)	0.244	1.16			0.571	305.84
			Z-axis (Below) (10cm)	0.263	0.38			0.552	306.62
			Z-axis (Above) (10cm)	0.251	2.62			0.564	304.38
33	Chargering with coil 3B_Left_50%	1% (Worse)	Left (10cm)	0.231	1.87	0.815	307	0.584	305.13
			Right (10cm)	0.229	1.82			0.586	305.18
			Top (10cm)	0.231	1.11			0.584	305.89
			Bottom (10cm)	0.235	1.16			0.580	305.84
			Z-axis (Below) (10cm)	0.241	0.46			0.574	306.54
			Z-axis (Above) (10cm)	0.295	2.96			0.520	304.04
34	Chargering with coil 3B_Left_20%	1% (Worse)	Left (10cm)	0.235	1.89	0.815	307	0.580	305.11
			Right (10cm)	0.231	1.85			0.584	305.15
			Top (10cm)	0.236	1.16			0.579	305.84
			Bottom (10cm)	0.239	1.21			0.576	305.79
			Z-axis (Below) (10cm)	0.248	1.01			0.567	305.99
			Z-axis (Above) (10cm)	0.301	3.01			0.514	303.99
35	Chargering with coil 3B_Rifht_50%	1% (Worse)	Left (10cm)	0.229	1.86	0.815	307	0.586	305.14
			Right (10cm)	0.230	1.83			0.585	305.17
			Top (10cm)	0.232	1.12			0.583	305.88
			Bottom (10cm)	0.233	1.14			0.582	305.86
			Z-axis (Below) (10cm)	0.241	0.48			0.574	306.52
			Z-axis (Above) (10cm)	0.294	2.95			0.521	304.05

Note:

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- EUT can pass the limit of 50%, so we can judge that it can also pass under the limit of 100%.
H-Field 50% limit = $1.63 \times 0.5 = 0.815$ A/m
E-Field 50% limit = $614 \times 0.5 = 307$ V/m

Test Mode	Test Setup	Battery Level	EUT Site & Distance	Test result H-Field (A/m) (Average value)	Test result E-Field (V/m) (Average value)	H-Field 50% limit (A/m)	E-Field 50% limit (V/m)	H-Field Margin (A/m)	E-Field margin (V/m)
36	Charger with coil 3B_Right_20%	1% (Worse)	Left (10cm)	0.232	1.93	0.815	307	0.583	305.07
			Right (10cm)	0.231	1.92			0.584	305.08
			Top (10cm)	0.233	1.17			0.582	305.83
			Bottom (10cm)	0.235	1.18			0.580	305.82
			Z-axis (Below) (10cm)	0.247	0.47			0.568	306.53
			Z-axis (Above) (10cm)	0.299	2.98			0.516	304.02

Note:

- The measurement antenna are move and surround the EUT when performed the test, the test results recorded as above are the highest values for each sides(left/right/top/bottom/z-axis)
- EUT can pass the limit of 50%, so we can judge that it can also pass under the limit of 100%.
H-Field 50% limit = $1.63 \times 0.5 = 0.815$ A/m
E-Field 50% limit = $614 \times 0.5 = 307$ V/m

5. Photographs of the Test Configuration

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

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