

Test report No:

4052ERM.003A2

Assessment report RF EXPOSURE REPORT ACCORDING TO IEEE Std C95.3-2002

FCC 47 CFR Part 2.1093 FCC 47 CFR Part 1.1307

(*) Identification of item tested	Qi 1.3 Wireless Charger with NFC
(*) Trademark	Panasonic
(*) Model and /or type reference tested	Qi 1.3 Wireless Charger with NFC
Other identification of the product	FCC: ACJ932A-WCPM2
(*) Features	Qi 1.3 and NFC
Manufacturer	PANASONIC AUTOMOTIVE 776 Hwy 74 South, Peachtree City, GA 30269 USA
Test method requested, standard	 IEEE Std C95.3-2002: "IEEE Recommended Practice for Measurements and Computations of Radio Frequency Electromagnetic Fields With Respect to Human Exposure to Such Fields, 100 kHz–300 GHz". FCC 47 CFR Part 2.1093. Radiofrequency radiation exposure evaluation: portable devices. FCC 47 CFR Part 1.1307: Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager
Date of issue	04-03-2024
Report template No	FERMUSA_199 (*) "Data provided by the client"



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Uncertainties

Uncertainty (factor k=2) was calculated according to the DEKRA Certification internal document PODT000.

Frequency (MHz)	Uncertainty (dB)	Uncertainty	Field
0.03 - 0.09	3.87	1.56	Electric (V/m)
0.03 - 0.09	2.60	1.34	Magnetic (A/m)
0.09 - 10	0.85	1.10	Electric (V/m)
0.09 - 10	0.71	1.09	Magnetic (A/m)

Data provided by the client

The following data has been provided by the client:

The test sample consist of Qi 1.3 Wireless Charger with NFC.

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.



Usage of samples

Samples undergoing test have been selected by the client

Sample S/01 is composed of the following elements:

Control Nº	Description	Model	Serial N ^o	Date of reception
4052/07	Wireless charger	MY23	101577	5/26/2023
4052/17	Harness	-	-	5/26/2023
4052/18	Harness Value Can	-	-	5/26/2023
4052/19	Load	-	-	6/15/2023

1. Sample S/01 has undergone the test(s) specified in subclause "Test method requested".

Identification of the client

PANASONIC AUTOMOTIVE

776 Hwy 74 South, Peachtree City

GA 30269.

Testing period and place

Test Location	DEKRA Certification Inc.
Date (start)	06-23-2023
Date (finish)	09-21-2023

Document history

Report number	Date	Description
4052ERM.003	08-10-2023	First release
4052ERM.003A1	09-21-2023	Second release. Maximum Conducted Power value was updated in RF Exposure Assessment result and verdict section (Appendix A & B); Simultaneous transmission assessment section was removed from the report. The Remarks and comments section was updated. This modification of the test report cancels and replaces the test report 4052ERM.003.
4052ERM.003A2	04-02-2024	Third release. RF exposure for RSS was removed. Measurement at 0 and 2 cm was added for 127 KHz. Measurement at 0 to 10 cm was added for 135 KHz This modification of the test report cancels and replaces the test report 4052ERM.003A1.



General description of the device under evaluation

The test sample consist of Qi 1.3 Wireless Charger with NFC.

In order to perform the assessment for the Qi wireless technology a conservative evaluation distance <=10cm has been used.

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C			
Relative humidity	Min. = 30 % Max. = 75 %			
Air pressure	Min. = 860 mbar Max. = 1060 mbar			

Remarks and comments

The tests have been performed by the technical personnel: Juliana Cherry and Lakshmi Gollamudi.



Testing verdicts

Not applicable :	N/A
Pass :	Ρ
Fail :	F
Not measured :	N/M

FCC 47 CFR § 2.1093 &	VERDICT			
ISED RSS 102 ISSUE 5 AMD 1 & ISED RSS 102-SPR-002 ISSUE 2	N/A	Р	F	NM
NFC				NM ⁽¹⁾
Qi Wireless Charger		Ρ		

1: Technology not subject to testing. Verdict has been determined through RF Exposure assessment (see Appendix A).

List of equipment used during the test

CONTROL NUMBER	DESCRIPTION	MANUFACTURER MODEL		LAST CALIBRATION	NEXT CALIBRATION
1107	ETHERNET SNMP THERMOMETER	HW GROUP	HWg-STE Plain	2022/08	2024/08
1324	Narda EHP-200A E and H Field Analyzer	NARDA	EHP-200A	2020/09	2024/09



Appendix A: FCC RF Exposure Evaluation



RF Exposure Assessment result and verdict

According to the manufacturer, during its normal use, the separation distance between the radiating structures of the device and nearby users will be greater than 4.15 mm as the evaluated distance is 4.15mm, based on the 0mm distance is from the sensor of the probe to the edge. In order to perform the assessment a conservative evaluation distance of 0.5 cm has been used.

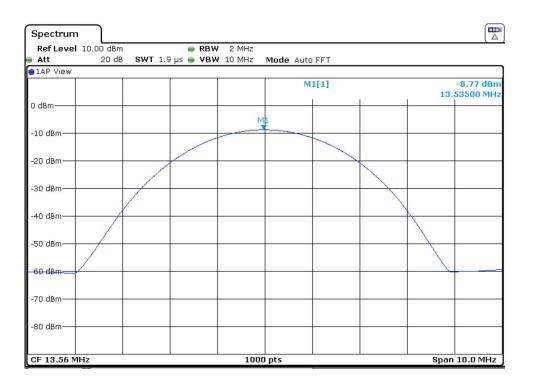
RF Exposure evaluation for the Qi wireless technology has been conducted through field measurements (see Qi Wireless Charger Evaluation section below).

NFC technology is not subjected to testing and verdict can be determined through RF Exposure assessment (see NFC RF Exposure Assessment section below).

Technology	Frequency (MHz)	Max. H- field (A/m)	Max. E- field (V/m)	Maximum Conducted Power (mW)	H- Field Limit (A/m)	E- Field Limit (V/m)	§1.1307(b)(3).i.(A) Exposure Limit (mW)	Verdict
NFC	13.56	-	-	0.13	-	-	1	PASS
Qi Charger	0.127	0.065	0.382	-	1.63	614	-	PASS
Qi Charger	0.135	0.060	0.379	-	1.63	614	-	PASS

 Table 1: Assessment result and Verdict

NFC Maximum Conducted Power measurement results: -8.77 dBm (0.13 mW)



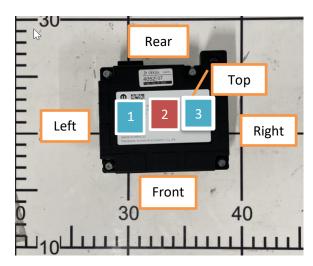


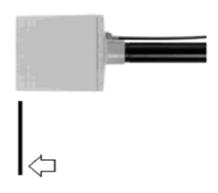
Qi Wireless Charger Evaluation

For low-power (<15W), in-vehicle applications perform H-field measurements for each edge/top surface of the host/client pair at every 2 cm, starting from as close as possible out to 10 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. 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. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m

According to "FCC 47 CFR Part 2.1093", portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in §1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

Limits for Maximum Permissible Exposure (MPE) to comply with FCC 47 CFR § 2.1091 are defined in "FCC 47 CFR Part 1.1310 Radiation Exposure limits, paragraph €":





E Field = 0cm to 10 cm H Field = 0cm to 10 cm



4.2 Coil Locations

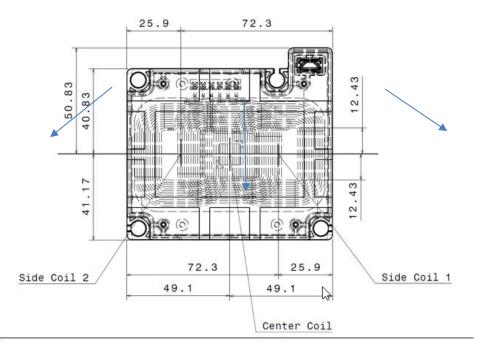


Figure 1: WPT measurement setup

The test sample Primary Coil is one from a linear array of partially overlapping Primary Coils, as appropriate for the position of the Power Receiver relative to the Primary Coils. Selection of the Primary Coil proceeds by the Power Transmitter attempting to establish communication with a Power Receiver using any of the Primary Coils. The array may consist of a single Primary Coil only.

The WPT device consists of different coils but only one coil will transmit based on the placement of load on charger.

The below testing setup has been measured in order to assess compliance for the device.

- Setup 1 – Charging setup with a Load

For the normal charging setup, measurements at every 2 cm starting from 0cm to 10 cm distance have been performed for all device sides, at different battery charge levels. With the customer provided load, measurements were performed on the 3 different coils by placing the load on each coil at different charging levels.



99% Battery Charge level for 127 KHz

Test Side	Distance to DUT (cm)	Frequency (kHz)	H- Field (A/m)	Limit (A/m)	% Limit	Verdict
	0		0.040		2.45	Pass
	2		0.032		1.96	Pass
Front 1	4		0.030		1.84	Pass
	6		0.033		2.02	Pass
	8		0.034		2.09	Pass
	10		0.035		2.15	Pass
	0		0.050		3.07	Pass
	2		0.047		2.88	Pass
Eront 0	4		0.045		2.76	Pass
Front 2	6		0.044	-	2.70	Pass
	8		0.046	-	2.82	Pass
	10		0.043		2.45 1.96 1.84 2.02 2.09 2.15 3.07 2.88 2.76 2.70	Pass
	0		0.052		3.19	Pass
	2		0.046		2.82	Pass
- ()	4		0.045		2.76	Pass
Front 3	6		0.043		2.61	Pass
	8		0.041		2.53	Pass
	10		0.042		2.58	Pass
	0		0.049		2.58 3.01 2.76	Pass
	2		0.045	1.63	2.76	Pass
	4	127	0.045		2.76	Pass
Rear 1	6		0.044		2.70	Pass
	8		0.045		2.76	Pass
	10					Pass
	0		0.049		3.01	Pass
						Pass
			0.044	-		Pass
Rear 2	6		0.045			Pass
	8		0.043		2.64	Pass
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Pass			
			-		2.70 2.82 2.64 3.19 2.82 2.76 2.61 2.53 2.58 3.01 2.76 2.70 2.76 2.70 2.76 2.70 3.01 2.76 2.70 3.01 2.76 2.70 3.01 2.76 2.70 3.19 2.88 2.76	Pass
						Pass
						Pass
Rear 3						Pass
				-		Pass
				-		Pass
			-	-		Pass
						Pass
Left	4		0.044			Pass
_0	6		0.045	1		Pass
	8		0.043	-		Pass



	10	0.033	2.02	Pass
	0	0.043	2.64	Pass
	2	0.038	2.33	Pass
Right	4	0.035	2.15	Pass
Right	6	0.037	2.27	Pass
	8	0.039	2.39	Pass
	10	0.041	2.52	Pass
	0	0.059	3.62	Pass
	2	0.053	3.25	Pass
Top 1	4	0.051	3.13	Pass
Top 1	6	0.049	3.01	Pass
	8	0.047	2.88	Pass
	10	0.043	2.64	Pass
	0	0.060	3.68	Pass
	2	0.054	3.31	Pass
Top 2	4	0.053	3.25	Pass
Top 2	6	0.048	2.94	Pass
	8	0.046	2.82	Pass
	10	0.044	2.70	Pass
	0	0.065	3.99	Pass
	2	0.055	3.37	Pass
Top 2	4	0.054	3.31	Pass
Top 3	6	0.044	2.70	Pass
	8	0.043	2.64	Pass
	10	0.037	2.27	Pass

Table 2: H-field measurement values



Test Side	Distance to DUT (cm)	Frequency (kHz)	E- Field (V/m)	Limit (V/m)	% Limit	Verdict
	0		0.373		0.06	Pass
	2		0.369		0.06	Pass
Erent 1	4		0.367	-	0.06	Pass
Front 1	6		0.354		0.06	Pass
	8		0.353		0.06	Pass
	10		0.350		0.06	Pass
	0		0.356		0.06	Pass
	2		0.350		0.06	Pass
Front 2	4		0.349	-	0.06	Pass
Front 2	6		0.352		0.06	Pass
	8		0.361	-	0.06	Pass
	10		0.335		0.05	Pass
	0		0.357		0.06	Pass
	2		0.349		0.06	Pass
Erent 0	4		0.348		0.06	Pass
Front 3	6		0.346	614	0.06	Pass
	8		0.354		0.06	Pass
	10		0.353		0.06	Pass
	0		0.360		0.06	Pass
	2		0.353		0.06	Pass
Deer 1	4	407	0.352		0.06	Pass
Rear 1	6	127	0.352		0.06	Pass
	8		0.355		0.06	Pass
	10		0.334	-	0.05	Pass
	0		0.355		0.06	Pass
	2		0.347		0.06	Pass
Deer 2	4		0.346		0.06	Pass
Rear 2	6		0.342		0.06	Pass
	8		0.347		0.06	Pass
	10		0.348	-	0.06	Pass
	0		0.351		0.06	Pass
	2		0.345	1	0.06	Pass
Rear 3	4		0.344		0.06	Pass
real 3	6	, Ē	0.345	-	0.06	Pass
	8		0.341		0.06	Pass
	10		0.342		0.06	Pass
	0		0.352		0.06	Pass
	2		0.345		0.06	Pass
Left	4		0.344		0.06	Pass
Leit	6		0.339		0.06	Pass
	8		0.342		0.06	Pass
	10		0.337		0.05	Pass



	0	0.349	0.06	Pass
	2	0.343	0.06	Pass
Diaht	4	0.341	0.06	Pass
Right	6	0.330	0.05	Pass
	8	0.356	0.06	Pass
	10	0.334	0.05	Pass
	0	0.381	0.06	Pass
	2	0.373	0.06	Pass
Top 1	4	0.371	0.06	Pass
Top 1	6	0.357	0.06	Pass
	8	0.367	0.06	Pass
	10	0.363	0.06	Pass
	0	0.359	0.06	Pass
	2	0.351	0.06	Pass
Top 2	4	0.349	0.06	Pass
100 2	6	0.352	0.06	Pass
	8	0.369	0.06	Pass
	10	0.359	0.06	Pass
	0	0.382	0.06	Pass
	2	0.374	0.06	Pass
Тор 3	4	0.372	0.06	Pass
TOP 3	6	0.365	0.06	Pass
	8	0.360	0.06	Pass
	10	0.350	0.06	Pass



50% Battery Charge level for 127 KHz

Test Side	Distance to DUT (cm)	Frequency (kHz)	H- Field (A/m)	Limit	% Limit	Verdict
		,		(A/m)		
	0		0.053		3.25	Pass
	2		0.046		2.82	Pass
Encod 4	4		0.044		2.70	Pass
Front 1	6		0.045		2.76	Pass
	8		0.044		2.70	Pass
	10		0.045		2.76	Pass
	0		0.054		3.31	Pass
	2		0.045		2.76	Pass
Erent 0	4		0.045		2.76	Pass
Front 2	6		0.044		2.70	Pass
	8		0.046		2.82	Pass
	10		0.045		2.76	Pass
	0		0.049		3.01	Pass
	2		0.047		2.88	Pass
Encat 0	4		0.046	1.63	2.82	Pass
Front 3	6		0.045		2.76	Pass
	8		0.044		2.70	Pass
	10		0.046		2.82	Pass
	0		0.053		3.25	Pass
	2	127	0.048		2.94	Pass
Deend	4		0.045		2.76	Pass
Rear 1	6		0.044		2.70	Pass
	8		0.045		2.76	Pass
	10		0.044		2.70	Pass
	0		0.052		3.19	Pass
	2		0.046		2.82	Pass
Deero	4		0.044		2.70	Pass
Rear 2	6		0.045	-	2.76	Pass
	8		0.046		2.82	Pass
	10		0.044		2.70	Pass
	0		0.051	-	3.13	Pass
	2		0.046		2.82	Pass
Decro	4		0.045	1	2.76	Pass
Rear 3	6		0.046	-	2.82	Pass
	8		0.044		2.70	Pass
	10		0.045		2.76	Pass
	0		0.051		3.13	Pass
Left	2		0.047	1	2.88	Pass
	4		0.046	1	2.82	Pass



	6		0.045		2.76	Pass
	8		0.044		2.70	Pass
	10		0.044		2.70	Pass
	0		0.049		3.01	Pass
	2		0.048		2.94	Pass
Dist	4		0.047		2.88	Pass
Right	6		0.044		2.70	Pass
	8		0.043		2.64	Pass
	10		0.030		1.84	Pass
	0		0.057		3.50	Pass
	2		0.049		3.01	Pass
Tan 1	4		0.045		2.76	Pass
Top 1	6		0.044		2.70	Pass
	8		0.046		2.82	Pass
	10		0.045		2.76	Pass
	0		0.055		3.37	Pass
	2		0.047		2.88	Pass
Top 0	4		0.046		2.82	Pass
Top 2	6		0.045		2.76	Pass
	8		0.044		2.70	Pass
	10		0.046		2.82	Pass
	0		0.053		3.25	Pass
	2]	0.046]	2.82	Pass
Top 2	4		0.045		2.76	Pass
Тор З	6		0.044		2.70	Pass
	8		0.045		2.76	Pass
	10		0.044		2.70	Pass

Table 4: H-field measurement values



Test Side	Distance to DUT (cm)	Frequency (kHz)	E- Field (V/m)	Limit	% Limit	Verdict
		····,		(V/m)		
	0		0.340		0.06	Pass
	2		0.337	-	0.05	Pass
	4		0.336		0.05	Pass
Front 1	6		0.341	-	0.06	Pass
	8		0.351	-	0.06	Pass
	10		0.361	-	0.06	Pass
	0		0.345	-	0.06	Pass
	2		0.338	-	0.06	Pass
	4		0.336	-	0.05	Pass
Front 2	6		0.364		0.06	Pass
	8		0.357	-	0.06	Pass
	10		0.336		0.05	Pass
	0		0.346	1	0.06	Pass
	2		0.342	1	0.06	Pass
E a co	4		0.341		0.06	Pass
Front 3	6		0.335	614	0.05	Pass
	8		0.362		0.06	Pass
	10		0.344		0.06	Pass
	0		0.371		0.06	Pass
	2		0.368		0.06	Pass
Deerd	4	107	0.367		0.06	Pass
Rear 1	6	127	0.334		0.05	Pass
	8		0.351		0.06	Pass
	10		0.362		0.06	Pass
	0		0.329		0.05	Pass
	2		0.325		0.05	Pass
Rear 2	4		0.324		0.05	Pass
Real Z	6		0.345		0.06	Pass
	8		0.352	-	0.06	Pass
	10		0.337		0.05	Pass
	0		0.340		0.06	Pass
	2		0.328		0.05	Pass
Rear 3	4		0.327		0.05	Pass
Iteal J	6		0.358		0.06	Pass
	8		0.349		0.06	Pass
	10		0.361	-	0.06	Pass
	0		0.360		0.06	Pass
	2		0.353		0.06	Pass
Left	4		0.351	-	0.06	Pass
Leit	6		0.346		0.06	Pass
	8		0.344		0.06	Pass
	10		0.342		0.06	Pass



	0	0.369		0.06	Pass
	2	0.361		0.06	Pass
Diaht	4	0.359		0.06	Pass
Right	6	0.342		0.06	Pass
	8	0.334		0.05	Pass
	10	0.321		0.05	Pass
	0	0.369		0.06	Pass
	2	0.365		0.06	Pass
Top 1	4	0.364		0.06	Pass
Top 1	6	0.357		0.06	Pass
	8	0.345		0.06	Pass
	10	0.344		0.06	Pass
	0	0.373		0.06	Pass
	2	0.368		0.06	Pass
Top 2	4	0.367		0.06	Pass
Top 2	6	0.359		0.06	Pass
	8	0.344		0.06	Pass
	10	0.330		0.05	Pass
	0	0.379		0.06	Pass
	2	0.373		0.06	Pass
Top 2	4	0.371		0.06	Pass
Тор 3	6	0.364		0.06	Pass
	8	0.356		0.06	Pass
	10	0.344]	0.06	Pass

Table 5: E-field measurement values	;
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1% Battery Charge level for 127 KHz

Test Side	Distance to DUT (cm)	Frequency (kHz)	H- Field (A/m)	Limit	% Limit	Verdict
				(A/m)		
	0		0.051		3.13	Pass
	2		0.047	-	2.88	Pass
Front 1	4		0.046	-	2.82	Pass
Front	6]	0.045	-	2.76	Pass
	8		0.044	-	2.70	Pass
	10		0.045	-	2.76	Pass
	0		0.051	-	3.13	Pass
	2		0.046	-	2.82	Pass
Ensut 0	4		0.045		2.76	Pass
Front 2	6		0.046		2.82	Pass
	8		0.047		2.88	Pass
	10		0.045		2.76	Pass
	0		0.049		3.01	Pass
	2		0.045		2.76	Pass
Ensut 0	4		0.044	1.63	2.70	Pass
Front 3	6		0.045		2.76	Pass
	8		0.044		2.70	Pass
	10		0.045		2.76	Pass
	0		0.052		3.19	Pass
	2	127	0.046		2.82	Pass
Deerd	4		0.045		2.76	Pass
Rear 1	6		0.044		2.70	Pass
	8		0.046		2.82	Pass
	10		0.045		2.76	Pass
	0		0.050		3.07	Pass
	2		0.047		2.88	Pass
Deer	4		0.046		2.82	Pass
Rear 2	6		0.045	-	2.76	Pass
	8		0.044		2.70	Pass
	10		0.046		2.82	Pass
	0		0.053		3.25	Pass
	2		0.046	-	2.82	Pass
Deer 0	4		0.045	1	2.76	Pass
Rear 3	6		0.044	-	2.70	Pass
	8		0.045		2.76	Pass
	10		0.044		2.70	Pass
	0	1	0.049		3.01	Pass
Left	2	1	0.045	1	2.76	Pass
	4		0.044	1	2.70	Pass

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6 0.045 2.76 Pass 10 0.046 2.82 Pass 0 0.044 0.044 0.045 0.046 2.82 Pass 0.046 0.045 2.82 Pass 0.046 0.046 2.82 Pass 0.046 0.046 2.82 Pass 0.046 0.046 2.82 Pass 0.046 0.046 2.70 Pass 0.046 0.045 2.76 Pass 0.046 0.045 2.76 Pass 0.046 0.045 2.76 Pass 2.70 0.045 2.76 Pass 0.045 0.046 2.76 Pass 2.76 Pass 2.76 Pass 0.047 2.88 Pass 100 0.044 2.76 Pass 100 0.045 2.94 Pass 2.10 0.045 2.94 Pass 2.10 0.045 2.94 Pass 2.10 0.045 2.94 Pass 2.10 0.045 2.76 Pass 2.10 0.045 2.76 Pass 2.10 0.045 2.76<				 	
10 0.044 2.70 Pass 2 0.048 2.94 Pass 0.046 0.046 2.82 Pass 0.046 0.046 2.82 Pass 0.046 0.046 2.82 Pass 0.046 0.046 2.82 Pass 0.046 0.046 2.70 Pass 0.046 0.045 2.82 Pass 0.046 0.045 2.82 Pass 0.046 0.045 2.76 Pass 2.70 0.045 2.82 Pass 0.045 0.046 2.82 Pass 2.82 Pass 2.82 Pass 0.045 0.046 2.82 Pass 0.047 0.047 2.88 Pass 2.84 0.047 2.88 Pass 0.048 0.045 2.76 Pass 2.94 Pass 2.94 Pass 10 0.045 2.76 Pass		6	0.045	2.76	Pass
0 0.048 2.94 Pass 2 0.046 2.82 Pass 0 0.046 2.82 Pass 0 0.046 2.82 Pass 0 0.046 2.82 Pass 0 0.045 2.82 Pass 0 0.045 2.82 Pass 0 0.045 2.82 Pass 0.046 0.045 2.82 Pass 0.045 0.046 2.82 Pass 2.76 Pass 2.76 Pass 0.045 0.045 2.82 Pass 2.82 Pass 2.88 Pass 0.046 0.045 2.76 Pass 2.70 Pass 2.76 Pass 0.047 0.044 2.70 Pass 2.70 0.045 2.76 Pass 2.94 Pass 2.94 Pass 2.94 Pass 2.76 Pass		8	0.046	2.82	Pass
1 0.046 2.82 Pass 6 0.046 2.76 Pass 0 0.046 2.70 Pass 0 0.045 2.76 Pass 0 0.045 2.76 Pass 0 0.045 2.76 Pass 0 0.052 3.19 Pass 0 0.046 2.82 Pass 0 0.046 2.82 Pass 0.046 0.045 2.76 Pass 0.046 0.047 2.88 Pass 0.047 2.88 Pass 0.047 2.88 Pass 0.047 2.88 Pass 2.4 0.047 2.88 Pass 2.4 0.047 2.88 Pass 2.6 0.045 2.76 Pass 2.8 0.045 2.76 Pass 2.8 0.045 2.76 Pass 2.76 Pass 2.76 P		10	0.044	2.70	Pass
Right 4 0.045 2.76 Pass 6 0.046 2.82 Pass 10 0.045 2.76 Pass 0 0.045 2.76 Pass 0.045 0.045 2.76 Pass 0.045 0.045 2.76 Pass 0.045 0.045 2.82 Pass 0.045 0.045 2.82 Pass 0.045 0.045 2.82 Pass 0.045 0.045 2.88 Pass 0.045 0.045 2.88 Pass 0.047 2.88 Pass 2.76 Pass 0.044 0.047 2.88 Pass 0.048 0.048 2.94 Pass 0.045 0.046 2.76 Pass 10 0.045 2.76 Pass 0.045 0.045 2.76 Pass 2.76 Pass 2.76 Pass 0.045 0.045		0	0.048	2.94	Pass
Right 6 0.046 2.82 Pass 10 0.045 2.76 Pass 10 0.045 3.19 Pass 0 0.045 2.82 Pass 0 0.045 2.76 Pass 0 0.045 2.82 Pass 0 0.045 2.82 Pass 0 0.045 2.82 Pass 0 0.045 2.82 Pass 0.046 0.045 2.82 Pass 0.046 0.047 2.88 Pass 0.047 0.044 2.70 Pass 2.70 0.93 3.13 Pass 0.048 0.047 2.88 Pass 2.84 0.045 2.76 Pass 2.85 0.045 2.76 Pass 2.76 0.045 2.76 Pass 2.76 0.045 2.76 Pass 2.76 0.045 2.76 Pass		2	0.046	2.82	Pass
6 0.046 2.82 Pass 10 0.044 2.70 Pass 10 0.045 2.76 Pass 0 0.045 2.82 Pass 0 0.045 2.76 Pass 0 0.045 2.82 Pass 0 0.045 2.82 Pass 0.046 0.045 2.82 Pass 0.046 0.047 2.88 Pass 0.047 0.047 2.88 Pass 0.047 0.044 2.70 Pass 2.70 Pass 2.88 Pass 0.047 0.044 2.70 Pass 2.76 Pass 2.82 Pass 0.048 0.047 2.88 Pass 2.76 Pass 2.76 Pass 0.045 0.045 2.76 Pass 2.76 Pass 2.76 Pass 2.76 Pass 0.045 2.76 Pass </td <td>Diabt</td> <td>4</td> <td>0.045</td> <td>2.76</td> <td>Pass</td>	Diabt	4	0.045	2.76	Pass
10 0.045 2.76 Pass 2 0.052 3.19 Pass 0.045 0.046 2.82 Pass 0.045 0.045 2.82 Pass 0.045 0.047 2.88 Pass 0.047 0.047 2.88 Pass 0.047 0.047 2.88 Pass 0.047 0.044 2.70 Pass 0.047 0.044 2.70 Pass 0.047 0.044 2.70 Pass 0.044 0.047 2.88 Pass 0.048 2.94 Pass 2.94 Pass 2.88 Pass 0.045 0.045 2.76 Pass 2.76 Pass 2.94 Pass 0.045 0.045 2.76 Pass 2.76 Pass 2.76 Pass 0.045 0.045 2.76 Pass 2.76 Pass 0.045 2.76 Pass <td>Right</td> <td>6</td> <td>0.046</td> <td>2.82</td> <td>Pass</td>	Right	6	0.046	2.82	Pass
0 0.052 3.19 Pass 2 0.046 2.82 Pass 0.045 0.047 2.88 Pass 0.047 0.047 2.88 Pass 0.047 0.044 2.70 Pass 0.044 0.051 3.13 Pass 0.044 0.051 3.13 Pass 0.048 0.045 2.94 Pass 2.70 Pass 2.70 Pass 0.051 0.048 2.94 Pass 2.94 Pass 2.94 Pass 2.94 Pass 2.94 Pass 2.94 Pass 2.76 Pass 2.76 Pass 2.76 Pass 2.94 Pass 2.94 Pass 2.76 Pass 2.94 Pass 2.76 Pass 2.94 Pass 2.94 Pass 2.94 Pass 2.94 Pass 2.94 Pass		8	0.044	2.70	Pass
1 2 0.046 2.82 Pass 0.045 0.045 2.76 Pass 0.047 0.047 2.88 Pass 0 0.047 2.88 Pass 0.047 0.047 2.88 Pass 10 0.044 2.70 Pass 0 0.051 3.13 Pass 2 0.048 2.94 Pass 2.88 Pass 2.88 Pass 0 0.051 3.13 Pass 2.94 Pass 2.94 Pass 2.88 Pass 2.76 Pass 2.88 Pass 2.76 Pass 2.76 Pass 2.76 Pass <td></td> <td>10</td> <td>0.045</td> <td>2.76</td> <td>Pass</td>		10	0.045	2.76	Pass
4 0.045 2.76 Pass 6 0.047 2.88 Pass 10 0.047 2.88 Pass 10 0.044 2.70 Pass 0 0.044 2.70 Pass 0 0.044 2.70 Pass 0 0.044 2.94 Pass 2 0.048 2.94 Pass 0.045 0.045 2.76 Pass 10 0.045 2.76 Pass 0.045 0.045 2.76 Pass 2 0.045 2.76 Pass 10 0.045 2.76 Pass 2.94 Pass 2.94 Pass 2.76 Pass 2.76 Pass 2.70 Pass 2.76 Pass 2.76 Pass 2.76 Pass 3.6 0.045 2.76 Pass 2.76 Pass 2.76 Pass 3.76		0	0.052	3.19	Pass
Top 1 6 0.047 2.88 Pass 8 0.047 2.88 Pass 10 0.044 2.70 Pass 0 0.051 3.13 Pass 2 0.047 2.88 Pass 4 0.051 3.13 Pass 2 0.047 2.88 Pass 4 0.047 2.88 Pass 2 0.045 2.76 Pass 10 0.045 2.76 Pass 10 0.045 2.76 Pass 2 0.045 2.76 Pass 2 0.045 2.76 Pass 2.76 Pass 2.76 Pass 3 6 0.045 2.76 Pass 2.76 Pass 2.76 Pass 3.76 Pa		2	0.046	2.82	Pass
6 0.047 2.88 Pass 8 0.047 2.88 Pass 10 0.044 2.70 Pass 0 0.051 3.13 Pass 0.047 0.048 2.94 Pass 0.047 0.048 2.94 Pass 0.047 0.048 2.94 Pass 0.045 0.045 2.76 Pass 10 0.045 2.76 Pass 0.045 0.045 2.76 Pass 2 0.045 2.76 Pass 10 0.045 2.76 Pass 2.76 Pass 2.76 Pass 2.76 Pass 2.76 Pass 2.76 Pass 2.76 Pass 2.70 Pass 2.76 Pass 2.76 Pass 2.76 Pass 2.76 8 0.045 2.76 Pass 2.76 Pass 2.76 Pass	Top 1	4	0.045	2.76	Pass
10 0.044 2.70 Pass 0 0.051 3.13 Pass 2 0.048 2.94 Pass 0.047 0.045 2.88 Pass 0.045 0.045 2.76 Pass 0.046 0.045 2.82 Pass 10 0.045 2.76 Pass 10 0.045 2.76 Pass 2.04 Pass 2.82 Pass 0.045 0.045 2.76 Pass 2.94 Pass 2.82 Pass 0.045 0.045 2.76 Pass 2.94 Pass 2.94 Pass 0.045 0.045 2.76 Pass 2.94 Pass 2.94 Pass <t< td=""><td>торт</td><td>6</td><td>0.047</td><td>2.88</td><td>Pass</td></t<>	торт	6	0.047	2.88	Pass
0 0.051 3.13 Pass 2 0.048 2.94 Pass 0.047 0.045 2.88 Pass 0.045 0.045 2.82 Pass 0.046 0.045 2.82 Pass 0.045 0.045 2.76 Pass 2.76 Pass 2.76 Pass 0.045 0.045 2.76 Pass 2.70 Pass 2.76 Pass 0.045 0.045 2.76 Pass 2.76 Pass 2.76 Pass 0.045 0.045 2.76 Pass		8	0.047	2.88	Pass
2 0.048 2.94 Pass 4 0.047 2.88 Pass 6 0.045 2.76 Pass 8 0.045 2.82 Pass 10 0.045 2.76 Pass 10 0.045 2.76 Pass 0 0.045 2.76 Pass 2 0.045 2.76 Pass 2.76 Pass 2.76 Pass 2.70 Pass 2.76 Pass 2.70 Pass 2.76 Pass 2.70 Pass 2.76 Pass 2.76 Pass 2.76 Pass		10	0.044	2.70	Pass
Top 2 4 0.047 2.88 Pass 6 0.045 2.76 Pass 0.046 0.045 2.82 Pass 10 0.045 2.76 Pass 0.045 0.045 2.76 Pass 0.045 0.045 2.76 Pass 0.045 0.045 2.76 Pass 0.045 0.045 2.70 Pass 2 0.045 2.76 Pass 0.045 0.045 2.76 Pass 2.70 Pass 2.76 Pass 0.045 0.045 2.76 Pass 2.76 Pass 2.76 Pass 0.045 0.045 2.76 Pass 2.76 Pass 2.76 Pass 0.045 0.045 2.76 Pass		0	0.051	3.13	Pass
Top 2 6 0.045 2.76 Pass 8 0.046 2.82 Pass 10 0.045 2.76 Pass 0 0.045 2.76 Pass 0 0.045 2.76 Pass 2 0.045 2.76 Pass 2 0.045 2.76 Pass 2 0.045 2.70 Pass 2 0.045 2.76 Pass 3 6 0.045 2.76 Pass 0.045 0.045 2.76 Pass 2.76 Pass 2.76 Pass 2.76 Pass 2.76 Pass 3 6 0.045 2.76 Pass 0.045 2.76 Pass 2.76 Pass 8 0.045 2.76 Pass		2	0.048	2.94	Pass
6 0.045 2.76 Pass 8 0.046 2.82 Pass 10 0.045 2.76 Pass 0 0.045 2.76 Pass 0 0.045 2.76 Pass 2 0.045 2.94 Pass 2.94 Pass 2.94 Pass 0.045 0.045 2.76 Pass 2.70 Pass 2.76 Pass 0.045 0.045 2.76 Pass 2.76 Pass 2.76 Pass 3 0.045 2.76 Pass 2.76 Pass 2.76 Pass	Top 2	4	0.047	2.88	Pass
10 0.045 2.76 Pass 0 0.048 2.94 Pass 2 0.045 2.76 Pass 4 0.044 2.70 Pass 6 0.045 2.76 Pass 0.045 0.045 2.76 Pass 2.76 Pass 2.76 Pass 2.76 Pass 2.76 Pass 2.76 Pass 2.76 Pass	TOP 2	6	0.045	2.76	Pass
0 0.048 2.94 Pass 2 0.045 2.76 Pass 4 0.044 2.70 Pass 6 0.045 2.76 Pass 0.045 0.045 2.76 Pass 2.76 Pass 2.76 Pass 0.045 0.045 2.76 Pass		8	0.046	2.82	Pass
2 0.045 2.76 Pass 4 0.044 2.70 Pass 6 0.045 2.76 Pass 8 0.045 2.76 Pass		10	0.045	2.76	Pass
4 0.044 2.70 Pass 6 0.045 2.76 Pass 8 0.045 2.76 Pass		0	0.048	2.94	Pass
Top 3 6 0.045 2.76 Pass 8 0.045 2.76 Pass		2	0.045	2.76	Pass
6 0.045 2.76 Pass 8 0.045 2.76 Pass	Top 2	4	0.044	2.70	Pass
	тор з	6	0.045	2.76	Pass
10 0.044 2.70 Pass		8	0.045	2.76	Pass
		10	0.044	2.70	Pass

Table 6: H-field measurement values



Test Side	Distance to DUT (cm)	Frequency (kHz)	E- Field (V/m)	Limit	% Limit	Verdict
				(V/m)		Voraiot
	0		0.375		0.06	Pass
	2		0.372	-	0.06	Pass
	4		0.371	-	0.06	Pass
Front 1	6		0.368		0.06	Pass
	8		0.361		0.06	Pass
	10		0.359		0.06	Pass
	0		0.350		0.06	Pass
	2		0.346		0.06	Pass
Erent 0	4		0.345		0.06	Pass
Front 2	6		0.349		0.06	Pass
	8		0.351		0.06	Pass
	10		0.345		0.06	Pass
	0		0.343		0.06	Pass
	2		0.338		0.06	Pass
Front 3	4		0.336		0.05	Pass
FIONUS	6		0.341		0.06	Pass
	8	8	0.351		0.06	Pass
	10		0.361		0.06	Pass
	0		0.341		0.06	Pass
	2	127	0.337	614	0.05	Pass
Rear 1	4		0.336		0.05	Pass
Real I	6		0.364		0.06	Pass
	8		0.357		0.06	Pass
	10		0.336		0.05	Pass
	0		0.349		0.06	Pass
	2		0.345		0.06	Pass
Rear 2	4		0.341		0.06	Pass
Iteal 2	6		0.335		0.05	Pass
	8		0.362		0.06	Pass
	10		0.344		0.06	Pass
	0		0.372		0.06	Pass
	2		0.368	-	0.06	Pass
Rear 3	4		0.367		0.06	Pass
itedi J	6		0.334	-	0.05	Pass
	8]	0.351		0.06	Pass
	10		0.362		0.06	Pass
	0		0.330		0.05	Pass
Left	2		0.325		0.05	Pass
LEIL	4		0.324		0.05	Pass
	6		0.345		0.06	Pass



	8		0.352	0.06	Pass
	10		0.337	0.05	Pass
	0		0.332	0.05	Pass
	2		0.328	0.05	Pass
Diaht	4		0.327	0.05	Pass
Right	6		0.358	0.06	Pass
	8		0.349	0.06	Pass
	10		0.361	0.06	Pass
	0		0.361	0.06	Pass
	2		0.358	0.06	Pass
Top 1	4		0.357	0.06	Pass
Top 1	6		0.364	0.06	Pass
	8		0.371	0.06	Pass
	10		0.376	0.06	Pass
	0		0.357	0.06	Pass
	2		0.351	0.06	Pass
Top 2	4		0.350	0.06	Pass
TOP 2	6		0.363	0.06	Pass
	8		0.354	0.06	Pass
	10		0.381	0.06	Pass
	0		0.363	0.06	Pass
	2		0.358	0.06	Pass
Top 2	4]	0.357	0.06	Pass
Тор 3	6		0.354	0.06	Pass
	8		0.350	0.06	Pass
	10		0.367	0.06	Pass

Table 7: E-field measurement values



99% Battery Charge level for 135 KHz

Test Side	Distance to DUT (cm)	Frequency (kHz)	H- Field (A/m)	Limit (A/m)	% Limit	Verdict
	0		0.040		2.45	Pass
Front 1	2		0.032		1.96	Pass
	4		0.030		1.84	Pass
FIONUT	6		0.033		2.02	Pass
	8		0.034		2.09	Pass
	10		0.035		2.15	Pass
	0		0.050		3.07	Pass
	2		0.047		2.88	Pass
Front 2	4		0.045		2.76	Pass
FION 2	6		0.044		2.70	Pass
	8		0.046		2.82	Pass
	10		0.043		2.64	Pass
	0		0.052		3.19	Pass
	2		0.046		2.82	Pass
Erent 2	4		0.045		2.76	Pass
Front 3	6		0.043	1.63	2.61	Pass
	8		0.041		2.53	Pass
	10		0.042		2.58	Pass
	0	135	0.049		3.01	Pass
	2		0.045		2.76	Pass
D (4		0.045		2.76	Pass
Rear 1	6		0.044		2.70	Pass
	8		0.045		2.76	Pass
	10		0.044	-	2.70	Pass
	0		0.049		3.01	Pass
	2		0.045	-	2.76	Pass
D	4		0.044	-	2.70	Pass
Rear 2	6	-	0.045		2.76	Pass
	8		0.043		2.64	Pass
	10		0.044	-	2.70	Pass
	0		0.052	-	3.19	Pass
	2		0.047	-	2.88	Pass
D	4		0.045		2.76	Pass
Rear 3	6		0.046		2.82	Pass
	8		0.044	1	2.70	Pass
	10		0.043	1	2.64	Pass
	0		0.050		3.07	Pass
	2		0.046		2.82	Pass
Left	4		0.044		2.70	Pass
	6		0.045		2.76	Pass
	8		0.037		2.27	Pass

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				-	
	10	0.033		2.02	Pass
	0	0.043		2.64	Pass
	2	0.038		2.33	Pass
Diaht	4	0.035		2.15	Pass
Right	6	0.037		2.27	Pass
	8	0.039		2.39	Pass
Γ	10	0.041		2.52	Pass
	0	0.059		3.62	Pass
Γ	2	0.053		3.25	Pass
Top 1	4	0.051		3.13	Pass
Top 1	6	0.049		3.01	Pass
	8	0.047		2.88	Pass
	10	0.043		2.64	Pass
	0	0.060		3.68	Pass
	2	0.054		3.31	Pass
Top 2	4	0.053		3.25	Pass
Top 2	6	0.048		2.94	Pass
	8	0.046		2.82	Pass
	10	0.044		2.70	Pass
	0	0.060		3.68	Pass
	2	0.055]	3.37	Pass
Тор 3	4	0.054]	3.31	Pass
	6	0.044]	2.70	Pass
I F	8	0.043		2.64	Pass
	10	 0.037		2.27	Pass

Table 8: H-field measurement values



Test Side	Distance to DUT (cm)	Frequency (kHz)	E- Field (V/m)	Limit (V/m)	% Limit	Verdict
	0		0.373		0.06	Pass
	2		0.369	-	0.06	Pass
Eropt 1	4		0.367		0.06	Pass
Front 1	6		0.354		0.06	Pass
	8		0.353	-	0.06	Pass
	10		0.350		0.06	Pass
	0		0.356	-	0.06	Pass
	2		0.350		0.06	Pass
Front 2	4		0.349		0.06	Pass
	6		0.352		0.06	Pass
	8		0.361		0.06	Pass
	10		0.335		0.05	Pass
	0		0.357		0.06	Pass
	2		0.349		0.06	Pass
Front 3	4		0.348		0.06	Pass
FIOR	6		0.346		0.06	Pass
	8	8 0.354 10 0.353	0.354		0.06	Pass
	10		0.353	614	0.06	Pass
	0		0.360		0.06	Pass
	2	135	0.353		0.06	Pass
Rear 1	4		0.352		0.06	Pass
iteal i	6		0.352		0.06	Pass
	8		0.355		0.06	Pass
	10		0.334	_	0.05	Pass
	0		0.355	_	0.06	Pass
	2		0.347	_	0.06	Pass
Rear 2	4		0.346	-	0.06	Pass
ittear 2	6		0.342		0.06	Pass
	8		0.347		0.06	Pass
	10		0.348		0.06	Pass
	0	0.351	0.06	Pass		
	2		0.345	-	0.06	Pass
Rear 3	4		0.344		0.06	Pass
i tour o	6		0.345		0.06	Pass
	8		0.341		0.06	Pass
	10		0.342		0.06	Pass
	0		0.352	1	0.06	Pass
	2		0.345	-	0.06	Pass
Left	4		0.344	-	0.06	Pass
	6		0.339		0.06	Pass
	8		0.342		0.06	Pass
	10		0.337		0.05	Pass
Right	0		0.349		0.06	Pass

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	2	0.343	0.06	Pass
	4	0.341	0.06	Pass
	6	0.330	0.05	Pass
	8	0.356	0.06	Pass
	10	0.334	0.05	Pass
	0	0.381	0.06	Pass
	2	0.373	0.06	Pass
Tan 1	4	0.371	0.06	Pass
Top 1	6	0.357	0.06	Pass
	8	0.367	0.06	Pass
	10	0.363	0.06	Pass
	0	0.359	0.06	Pass
	2	0.351	0.06	Pass
Ten 0	4	0.349	0.06	Pass
Top 2	6	0.352	0.06	Pass
	8	0.369	0.06	Pass
	10	0.359	0.06	Pass
	0	0.379	0.06	Pass
	2	0.374	0.06	Pass
Top 2	4	0.372	0.06	Pass
Тор 3	6	0.365	0.06	Pass
	8	0.360	0.06	Pass
	10	0.350	0.06	Pass

Table 9: E-field measurement values



50% Battery Charge level for 135 KHz

Test Side	Distance to DUT (cm)	Frequency (kHz)	H- Field (A/m)	Limit	% Limit	Verdict
				(A/m)		
	0		0.053		3.25	Pass
	2		0.046	-	2.82	Pass
Front 1	4		0.044	-	2.70	Pass
	6		0.045	-	2.76	Pass
	8		0.044	-	2.70	Pass
	10		0.045		2.76	Pass
	0		0.054		3.31	Pass
	2		0.045		2.76	Pass
Encat 0	4		0.045		2.76	Pass
Front 2	6		0.044		2.70	Pass
	8		0.046		2.82	Pass
	10		0.045		2.76	Pass
	0		0.049		3.01	Pass
	2		0.047		2.88	Pass
Front 2	4		0.046	-	2.82	Pass
Front 3	6		0.045		2.76	Pass
	8		0.044		2.70	Pass
	10		0.046		2.82	Pass
	0		0.053	-	3.25	Pass
	2]	0.048		2.94	Pass
Rear 1	4	135	0.045	1.63	2.76	Pass
Real	6		0.044		2.70	Pass
	8		0.045		2.76	Pass
	10		0.044	-	2.70	Pass
	0		0.052		3.19	Pass
	2		0.046		2.82	Pass
Rear 2	4		0.044		2.70	Pass
Real Z	6		0.045		2.76	Pass
	8		0.046		2.82	Pass
	10		0.044		2.70	Pass
	0		0.051		3.13	Pass
	2		0.046		2.82	Pass
Rear 3	4		0.045		2.76	Pass
itedi J	6		0.046		2.82	Pass
	8		0.044		2.70	Pass
	10		0.045		2.76	Pass
	0		0.051		3.13	Pass
	2		0.047		2.88	Pass
Left	4		0.046		2.82	Pass
	6		0.045		2.76	Pass
	8		0.044		2.70	Pass



10 0.044 2.70 0 0.049 3.01 2 0.048 2.94	Pass Pass
	Pass
2 0.048 2.94	
	Pass
Dight 4 0.047 2.88	Pass
Right 6 0.044 2.70	Pass
8 0.043 2.64	Pass
10 0.030 1.84	Pass
0 0.057 3.50	Pass
2 0.049 3.01	Pass
Tap 1 4 0.045 2.76	Pass
Top 1 6 0.044 2.70	Pass
8 0.046 2.82	Pass
10 0.045 2.76	Pass
0 0.055 3.37	Pass
2 0.047 2.88	Pass
Top 2 4 0.046 2.82	Pass
Top 2 6 0.045 2.76	Pass
8 0.044 2.70	Pass
10 0.046 2.82	Pass
0 0.053 3.25	Pass
2 0.046 2.82	Pass
Top 3 4 0.045 2.76	Pass
10p 3 6 0.044 2.70	Pass
8 0.045 2.76	Pass
10 0.044 2.70	Pass

Table 10: H-field measurement values

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Test Side	Distance to DUT (cm)	Frequency (kHz)	E- Field (V/m)	Limit	% Limit	Verdict
				(V/m)		, or anot
	0		0.340		0.06	Pass
	2		0.337		0.05	Pass
	4	-	0.336	-	0.05	Pass
Front 1	6	•	0.341	-	0.06	Pass
	8	•	0.351	-	0.06	Pass
	10	•	0.361	-	0.06	Pass
	0		0.345		0.06	Pass
	2	-	0.338	-	0.06	Pass
	4		0.336		0.05	Pass
Front 2	6	-	0.364		0.06	Pass
	8		0.357		0.06	Pass
	10	-	0.336		0.05	Pass
	0		0.346		0.06	Pass
	2	-	0.342		0.06	Pass
Encret 0	4		0.341		0.06	Pass
Front 3	6		0.335		0.05	Pass
	8		0.362		0.06	Pass
	10		0.344		0.06	Pass
	0		0.371	-	0.06	Pass
	2		0.368	-	0.06	Pass
Rear 1	4	135	0.367	614	0.06	Pass
Real I	6	155	0.334	014	0.05	Pass
	8		0.351	-	0.06	Pass
	10		0.362		0.06	Pass
	0		0.329		0.05	Pass
	2		0.325		0.05	Pass
Rear 2	4		0.324		0.05	Pass
rteal 2	6		0.345		0.06	Pass
	8		0.352		0.06	Pass
	10		0.337		0.05	Pass
	0		0.340		0.06	Pass
	2		0.328	_	0.05	Pass
Rear 3	4		0.327		0.05	Pass
itedi 5	6		0.358	_	0.06	Pass
	8		0.349		0.06	Pass
	10		0.361		0.06	Pass
	0		0.360		0.06	Pass
	2		0.353		0.06	Pass
Left	4		0.351		0.06	Pass
LCIL	6		0.346		0.06	Pass
	8		0.344		0.06	Pass
	10		0.342		0.06	Pass



n	1			
	0	0.369	0.06	Pass
	2	0.361	0.06	Pass
Diabt	4	0.359	0.06	Pass
Right	6	0.342	0.06	Pass
	8	0.334	0.05	Pass
	10	0.321	0.05	Pass
	0	0.369	0.06	Pass
	2	0.365	0.06	Pass
Tan 1	4	0.364	0.06	Pass
Top 1	6	0.357	0.06	Pass
	8	0.345	0.06	Pass
	10	0.344	0.06	Pass
	0	0.373	0.06	Pass
	2	0.368	0.06	Pass
Top 2	4	0.367	0.06	Pass
Top 2	6	0.359	0.06	Pass
	8	0.344	0.06	Pass
	10	0.330	0.05	Pass
	0	0.378	0.06	Pass
	2	0.373	0.06	Pass
Top 2	4	0.371	0.06	Pass
Тор 3	6	0.364	0.06	Pass
	8	0.356	0.06	Pass
	10	0.344	0.06	Pass

T	able 11:	E-field	measu	urement	values



1% Battery Charge level for 135 KHz

Test Side	Distance to DUT (cm)	Frequency (kHz)	H- Field (A/m)	Limit	% Limit	Verdict
				(A/m)		
	0		0.051		3.13	Pass
	2		0.047		2.88	Pass
Eront 1	4		0.046		2.82	Pass
Front 1	6		0.045		2.76	Pass
	8		0.044		2.70	Pass
	10		0.045		2.76	Pass
	0		0.051		3.13	Pass
	2		0.046		2.82	Pass
Front 2	4		0.045		2.76	Pass
FION Z	6		0.046		2.82	Pass
	8		0.047		2.88	Pass
	10		0.045		2.76	Pass
	0		0.049		3.01	Pass
	2		0.045		2.76	Pass
Front 3	4		0.044		2.70	Pass
FION 3	6		0.045		2.76	Pass
	8		0.044		2.70	Pass
	10		0.045		2.76	Pass
	0		0.052		3.19	Pass
	2		0.046		2.82	Pass
Rear 1	4	135	0.045	1.63	2.76	Pass
Real I	6		0.044		2.70	Pass
	8		0.046		2.82	Pass
	10		0.045		2.76	Pass
	0		0.050		3.07	Pass
	2		0.047		2.88	Pass
Rear 2	4		0.046		2.82	Pass
Real 2	6		0.045		2.76	Pass
	8		0.044		2.70	Pass
	10		0.046		2.82	Pass
	0		0.053		3.25	Pass
	2		0.046		2.82	Pass
Rear 3	4		0.045		2.76	Pass
iteal 3	6		0.044		2.70	Pass
	8		0.045		2.76	Pass
	10		0.044		2.70	Pass
	0		0.049		3.01	Pass
	2		0.045		2.76	Pass
Left	4		0.044		2.70	Pass
	6		0.045		2.76	Pass
	8		0.046		2.82	Pass

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		Г		r	
	10		0.044	2.70	Pass
	0		0.048	2.94	Pass
	2		0.046	2.82	Pass
Diabt	4		0.045	2.76	Pass
Right	6		0.046	2.82	Pass
	8		0.044	2.70	Pass
	10	-	0.045	2.76	Pass
	0		0.052	3.19	Pass
	2	-	0.046	2.82	Pass
Top 1	4		0.045	2.76	Pass
Top 1	6		0.047	2.88	Pass
	8		0.047	2.88	Pass
	10		0.044	2.70	Pass
	0		0.051	3.13	Pass
	2		0.048	2.94	Pass
Top 2	4		0.047	2.88	Pass
Top 2	6		0.045	2.76	Pass
	8		0.046	2.82	Pass
	10		0.045	2.76	Pass
	0		0.048	2.94	Pass
	2		0.045	2.76	Pass
Тор 3	4		0.044	2.70	Pass
i up s	6		0.045	2.76	Pass
[Γ	8	ſ	0.045	2.76	Pass
[10		0.044	2.70	Pass

Table 12: H-field measurement values

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Test Side	Distance to DUT (cm)	Frequency (kHz)	E- Field (V/m)	Limit	% Limit	Verdict
			, , , ,	(V/m)		
	0		0.375		0.06	Pass
	2		0.372		0.06	Pass
Front 1	4		0.371		0.06	Pass
FIONUT	6		0.368		0.06	Pass
	8		0.361		0.06	Pass
	10		0.359		0.06	Pass
	0		0.350		0.06	Pass
	2		0.346		0.06	Pass
Front 2	4		0.345		0.06	Pass
	6		0.349		0.06	Pass
	8		0.351		0.06	Pass
	10		0.345		0.06	Pass
	0		0.343		0.06	Pass
	2		0.338		0.06	Pass
Front 3	4		0.336		0.05	Pass
110111.5	6		0.341		0.06	Pass
	8		0.351		0.06	Pass
	10		0.361		0.06	Pass
	0		0.341		0.06	Pass
	2		0.337		0.05	Pass
Rear 1	4	135	0.336	614	0.05	Pass
itear i	6	155	0.364	014	0.06	Pass
	8		0.357	-	0.06	Pass
	10		0.336		0.05	Pass
	0		0.349	-	0.06	Pass
	2		0.345	-	0.06	Pass
Rear 2	4		0.341	-	0.06	Pass
	6		0.335	-	0.05	Pass
	8		0.362	-	0.06	Pass
	10		0.344	-	0.06	Pass
	0		0.372	-	0.06	Pass
	2		0.368	-	0.06	Pass
Rear 3	4		0.367	-	0.06	Pass
i tour o	6		0.334		0.05	Pass
	8		0.351		0.06	Pass
	10		0.362		0.06	Pass
	0		0.330		0.05	Pass
	2		0.325		0.05	Pass
Left	4		0.324		0.05	Pass
	6		0.345		0.06	Pass
	8		0.352		0.06	Pass
	10		0.337		0.05	Pass



	0	0.332		0.05	Pass
	2	0.328	-	0.05	Pass
	4	0.327	-	0.05	Pass
Right	6	0.358		0.05	Pass
	8	0.349		0.06	Pass
			-		
	10	0.361	-	0.06	Pass
	0	0.361	-	0.06	Pass
	2	0.358		0.06	Pass
Top 1	4	0.357		0.06	Pass
Top 1	6	0.364		0.06	Pass
	8	0.371		0.06	Pass
	10	0.376		0.06	Pass
	0	0.357		0.06	Pass
	2	0.351		0.06	Pass
Top 0	4	0.350		0.06	Pass
Top 2	6	0.363		0.06	Pass
	8	0.354		0.06	Pass
	10	0.364		0.06	Pass
	0	0.363		0.06	Pass
	2	0.358		0.06	Pass
Tan 0	4	0.357		0.06	Pass
Тор 3	6	0.354		0.06	Pass
	8	0.350		0.06	Pass
	10	0.367		0.06	Pass

Table 13: E-field measurement values

All E-Field and H-Field values are in compliance to values shown into "Table 1: Limits for Maximum Permissible Exposure (MPE)" for the frequency range used by the device.



Simultaneous transmission assessment:

The device under evaluation is able to transmit simultaneously using NFC and WPT transmitters, therefore the most conservative approach for the evaluation of the simultaneous transmission will be:

For 127 KHz:

Simultaneous technologies and modes	Result (∑ of Pout/Pmax ratios)	Verdict (∑ ≤ 1)
Qi Wireless Charging (H-Field + E-Field) + NFC	0.17	Pass

For 135 KHz:

Simultaneous technologies and modes	Result (∑ of Pout/Pmax ratios)	Verdict (∑ ≤ 1)
Qi Wireless Charging (H-Field + E-Field) + NFC	0.16	Pass



Appendix B: FCC RF Exposure information



FCC RF Exposure evaluation

When a device qualifies for the categorical exclusion provision of § 2.1091(c), the minimum test separation distance may be estimated, when applicable, by simple calculations according to plane-wave equivalent conditions, to ensure the transmitter and its antenna(s) can operate in manners that meet or exceed the estimated distance. The source-based time-averaged maximum radiated power, according to the maximum antenna gain, must be applied to calculate the field strength and power density required to establish the minimum test separation distance. When the estimated test separation distance becomes overly conservative and does not support compliance, MPE measurement or computational modeling may be used to determine the required minimum separation distance.

According to §1.1310 Radiofrequency radiation exposure limits, paragraph (e), the limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields are:

Power density (mW/cm ²)	etic field ength /m) Power density Averaging tin (mW/cm ²) (minutes)	Electric field strength (V/m)	Frequency range (MHz)
	sure	ational/Controlle	(A) Limits for Occup
* 100 * 900/t ² 1.0 t/300 5	4.89/1 *900/1 ² 0.163 1.0 	614 1842/1 61.4	0.3–3.0 3.0–30 30–300 300–1,500 1,500–100,000
1	xposure	pulation/Uncont	(B) Limits for General Po
* 100 * 180/f ² 0.2 f/1500 1.0	2.19/1 *180/12 0.073 0.2 1/1500	614 824/1 27.5	0.3–1.34
			300–1,500 1,500–100,000

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

f = frequency in MHz * = Plane-wave equivalent power density



FCC MPE Evaluation

Limits for Maximum Permissible Exposure (MPE) for RF sources are defined in FCC 47 CFR "§1.1310 Radiation Exposure limits, paragraph (e)":

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(i) Limits for	Occupational/Controlled Exp	osure	
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
300-1,500			f/300	<6
1,500-100,000			5	<6
	(ii) Limits for Gen	eral 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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

TABLE 1 TO §1.1310(E)(1)-LIMITS FOR	MAXIMUM PERMISSIBL	E EXPOSURE (MPE)

f = frequency in MHz. * = Plane-wave equivalent power density.

Each supported transmission technology will be evaluated to determine if it is in compliance with limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields.

In order to perform the assessment, the following equations have been used for the calculations; these equations are accurate in the far-field of an antenna and will over-predict power density in the near field, where they could be used for making a "worst-case" or conservative prediction:

Power density:
$$S[mW/cm^2] = \frac{P_{E.I.R.P.}[mW]}{4\Pi R[cm]^2}$$

Where:

S = power density

 $P_{E.I.R.P.}$ = Equivalent isotropically radiated power

R = distance to the center of radiation of the antenna (evaluation distance)

 $P_{E,I,R,P} = P_T + G_T - L_C$

Where:

 P_T = transmitter time-averaged output power (including Duty Cycle and tune-up tolerance, if applicable) G_T = gain of the transmitting antenna

L_c = signal attenuation in the connecting cable between the transmitter and the antenna if applicable



Simultaneous transmission assessment:

When multiple sources are introduced into an environment, it becomes necessary to address the sources interdependently, since each source will contribute some percentage of the maximum exposure toward the total exposure. The sum of the ratios of the exposure from each source to the corresponding maximum exposure for the frequency of each source must be evaluated.

The exposure complies with the maximum permissible exposure if the sum of the ratios is less than unity:

$$\sum_{i=1}^{n} \frac{Exp_i}{Limit_i} < 1$$

Where

 Exp_i is the measured/calculated exposure value of each source; Limit_i is the applicable limit of each source.



Appendix C: Photographs



