



FCC Part 1 Subpart I
FCC Part 2 Subpart J

CERTIFICATION TEST REPORT

FOR

SMART PHONE

**MODEL NO: A2649 (Parent Model, Full Test)
A2881, A2882, A2883, A2884 (Variant Models)**

**FCC ID: BCG-E8138A (Parent Model)
FCC ID: BCG-E8142A, BCG-E8143A, BCG-E8144A (Variant
Models)**

REPORT NUMBER: 14040867-E15V1

ISSUE DATE: JULY 06, 2022

Prepared for
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Revision History

Rev.	Issue Date	Revisions	Revised By
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A

EUT DESCRIPTION: SMARTPHONE

MODEL: A2649 (Parent Model)
A2881, A2882, A2883, A2884 (Variant Models)

BRAND: APPLE

FCC ID: BCG-E8138A (Parent Model)
BCG-E8142A, BCG-E8143A, BCG-E8144A (Variant Models)

SERIAL NUMBER: TQYJQFN7CJ (Parent Model, Full Test)
FD2GP2HJPH, QKN6DR74D2, VR63CY736D (Variant Models)

SAMPLE RECEIPT DATE JUNE 6, 2022

DATE TESTED: JUNE 06 - 22, 2022

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 1 SUBPART I & PART 2 SUBPART J	Complies

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government

Reviewed By:

Prepared By:



Chin Pang
Senior Engineer
UL LLC.



Tom Chen
Test Engineer
UL LLC.

2. TEST METHODOLOGY

All measurements made in accordance with KDB 680106 and manufacturer KDB inquiry.

3. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
<input type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, CA 94538	US0104	2324A	550739
<input type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, CA 94538	US0104	22541	550739
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, CA 94538	US0104	2324B	550739

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

4.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Magnetic Field Reading (A/m)	+/-0.04284 (A/m)
Electric Field Reading (V/m)	+/-0.03682 (V/m)

Uncertainty figures are valid to a confidence level of 95.45%.

5. KDB 680106 D01 SECTION 5b EQUIPMENT APPROVAL CONSIDERATIONS

Requirement	Device
(1) Power transfer frequency is less than 1 MHz.	Yes. Operating Frequency is 360 kHz
(2) Output power from each primary coil is less than or equal to 15 watts.	Yes. The maximum power is 5 Watts
(3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	Yes. The system includes one single primary and secondary coil and the device is designed to charge a single client
(4) Client device is placed directly in contact with the transmitter.	Yes. The client device is placed directly in contact with the transmitter.
(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	No. It is a portable device.
(6) 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.	No. The measurement is based on KDB inquiry which 0mm distance is set for all positions testing.

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with multimedia functions (music, application support, and video), cellular GSM, GPRS, EGPRS, UMTS, LTE, 5G, IEEE 802.11a/b/g/n/ac/ax, Bluetooth, Ultra-Wideband, GPS, NFC and MSS. All models except reference model support at least one UICC based SIM. The second SIM is either an UICC based p-SIM (physical SIM) or e-SIM (electronic SIM). The device supports a built-in inductive charging transmitter and receiver. The rechargeable battery is not user accessible.

Model A2883 and A2884 have the same FCC ID, Spot check was performed only for Model A2883, difference between these models are on the SIM only.

The Model and FCC IDs covered by this report includes:

Parent Model: A2649, FCC ID: BCG-E8138A

Variant Models: A2881, FCC ID: BCG-E8142A
 A2882; FCC ID: BCG-E8143A
 A2883 & A2884, FCC ID: BCG-E8144A

6.2. WORST-CASE CONFIGURATION AND MODE

The EUT is a smartphone which connected to the AC/DC adapter via USB-C cable, and the inductive charging coil to charge WPT Client. For the entire radiated emissions test, the EUT was investigated on the following configuration during the test at its natural orientation. Full test, configuration 1 & 2, was investigated on Parent model, and the worst case was configuration 2 at 25-70% power charging 2mm shift to the top, therefore, config 2, worst case was investigated only on variant models. For worst case at H field on configuration 2 at 2cm increment, please see SAR simulation report.

Model A2483

Config	Mode	Descriptions
1	Operating	Direct contact charging between the EUT & WPT Client, and the EUT is powered by AC/DC adapter via USB-C cable.
2	Operating	2mm airgap charging between the EUT & WPT Client + 2mm offset shift to Top or Bottom, and the EUT is powered by AC/DC adapter via USB-C cable.

A2881, A2882, A2883, A2884 (Variant Models, Spot Check Worst Case)

Config	Mode	Descriptions
2	Operating	2mm airgap charging between the EUT & WPT Client + 2mm offset shift to Top or Bottom@ 25 ~ 70% power charging, and the EUT is powered by AC/DC adapter via USB-C cable.

6.3. DESCRIPTION OF TEST SETUP**SUPPORT EQUIPMENT**

SUPPORT EQUIPMENT & PERIPHERALS LIST			
Description	Manufacturer	Model	Serial Number
WPT Battery Pack	N/A	A2384	DL5HC1X30NLJ
AC/DC Adapter	Apple	A2305	N/A

I/O CABLES

The EUT with lightning to USB-C cable powered by AC/DC Adapter.

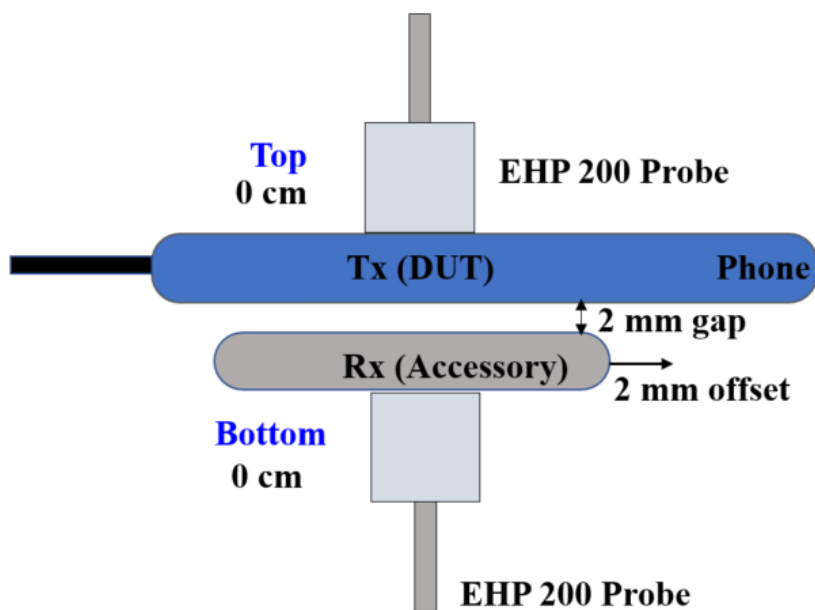
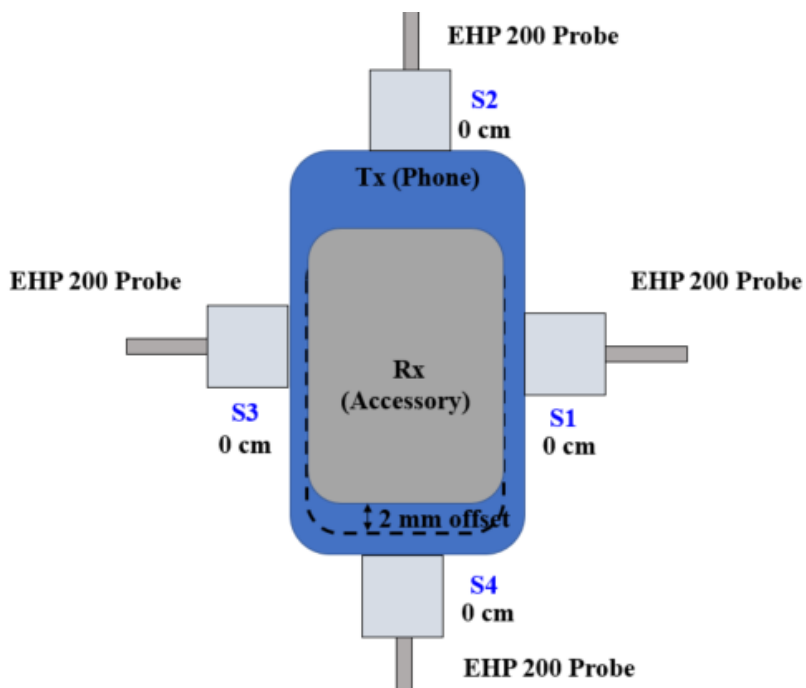
TEST SETUP

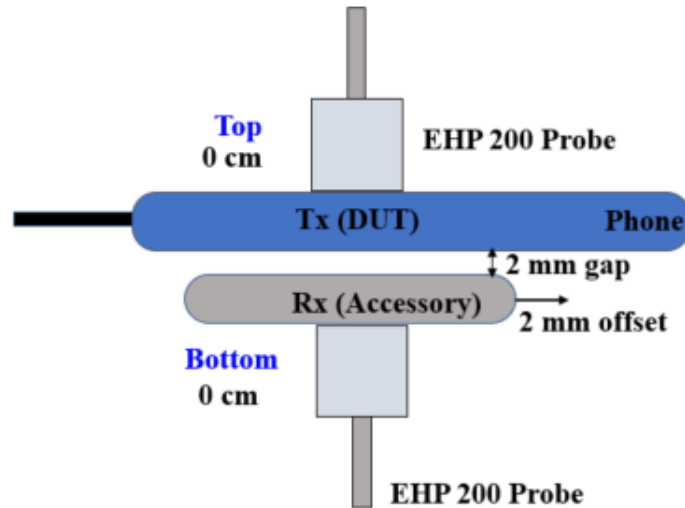
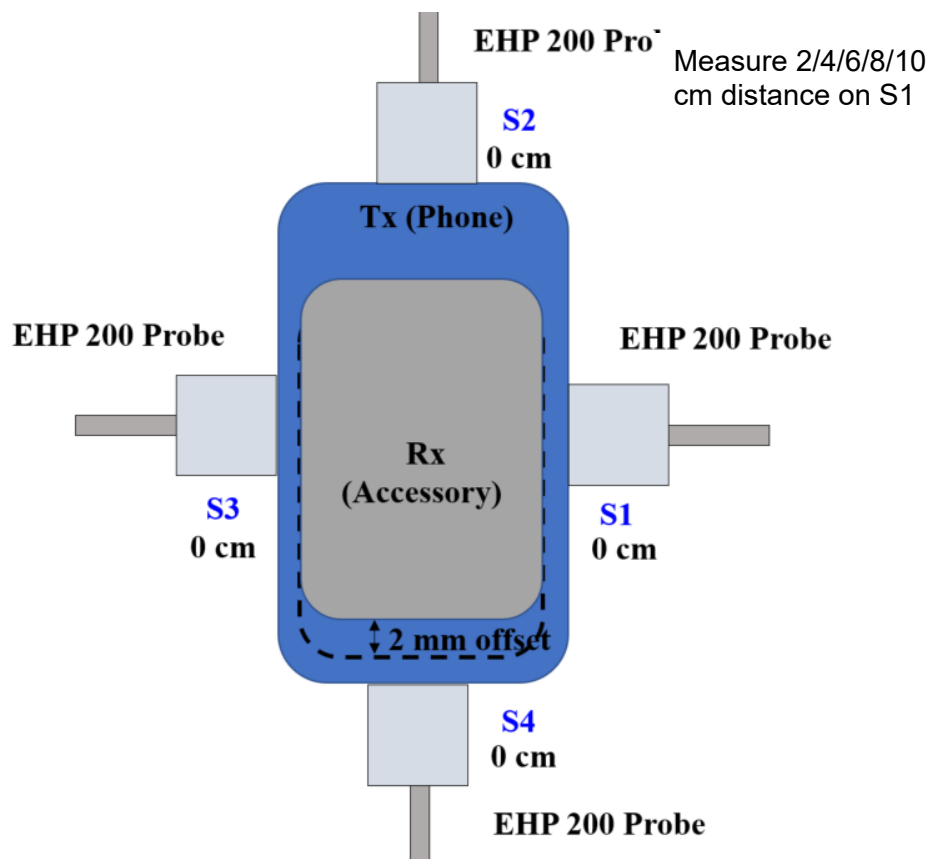
The following configurations are tested:

Configuration	Mode	Descriptions
1 (Direct Contact)	Operating (WPT Client, ~25% Power Charging)	EUT with lightning to USB-C cable powered by AC/DC Adapter & Wireless Charging to WPT Client
	Operating (WPT Client, 25%~70% Power Charging)	
	Operating (WPT Client >75% Power Charging)	
2 (2mm Airgap + 2mm Shift to Top or Bottom)	Operating (WPT Client, ~25% Power Charging)	EUT with lightning to USB-C cable powered by AC/DC Adapter & Wireless Charging to WPT Client
	Operating (WPT Client, 25%~70% Power Charging)	
	Operating (WPT Client >75% Power Charging)	

MEASUREMENT SETUP

The measurement was taken using a probe placed 0 mm surrounding the device. Measurements were taken from the top and all sides of the EUT per KDB680106 D01 v03 and the manufacturer KDB inquiry.

CONFIGURATION 1**Side View****Top View**

CONFIGURATION 2Side ViewSide View

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was used for the tests documented in this report:

Test Equipment List						
Description	Manufacturer	Model	S/N	Label ID	Cal Due	Cal Date
Electric and Magnetic Field Probe	Narda	EHP-200A	160WX41008	T1085	03/10/2023	03/10/2022
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	MY55410147	125179	02/01/2023	02/01/2022

8. DUTY CYCLE

LIMITS

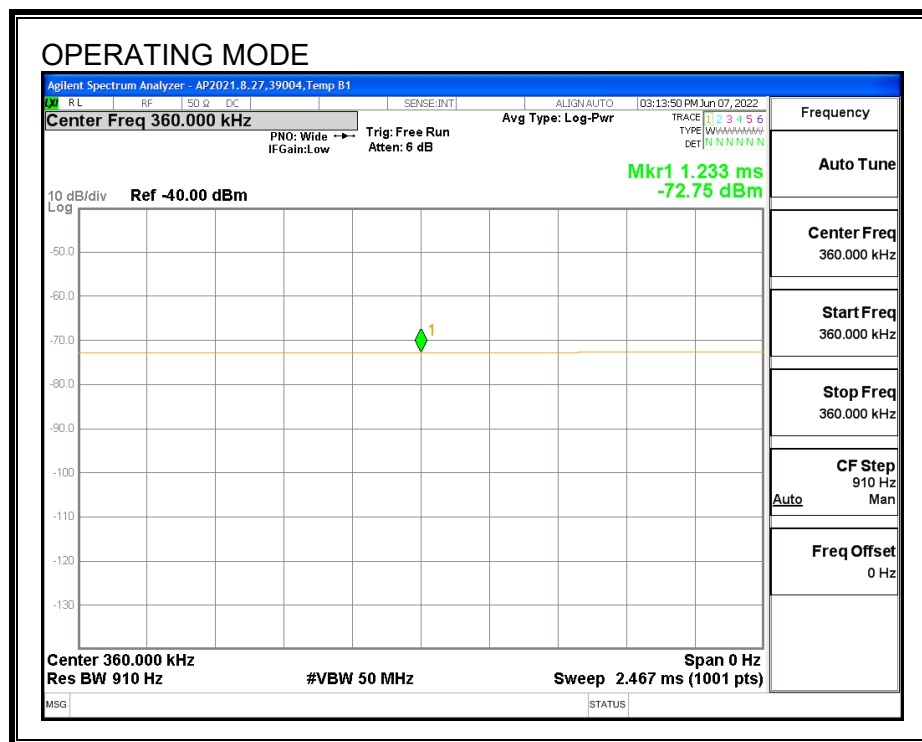
None; for reporting purposes only.

PROCEDURE

Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
Operating	100.00	100.00	1.00	100.00%	0.00



9. MAXIMUM PERMISSIBLE RF EXPOSURE

9.1. FCC LIMITS AND SUMMARY

§1.1310 The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio-frequency (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

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)—Continued

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
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.

Configuration # 2 Summary Table			
	Model No.	E-Field (V/m)	H-Field (A/m)
Parent Model	A2649	8.604	0.877
Variant Model	A2881	8.005	0.764
	A2882	8.082	0.838
	A2883/AA2884	7.979	0.695

9.1.1. MODEL A2649**RESULTS**

ID:	29435	Date:	6/7/2022
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FCC RF Exposure Summary of Results**Configuration #1:**

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	4.601	0.75%	1.63	0.383	23.50%

Configuration #2:

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	8.604	1.40%	1.63	0.877	53.80%

E- FIELD AND H- FIELD MEASUREMENTS

Note: Peak measurements were performed. RMS values were calculated from the peak measurement. Please refer to the formula for calculating the RMS values: [Field Strength x $\sqrt{\text{Duty Cycle}}$].

Configuration #1

FCC Limit												
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit	Electric Field Reading				Magnetic Field Limit	Magnetic Field Reading			
			(V/m)	(V/m)				(A/m)	(A/m)			
			FCC	Location	Peak	Duty Cycle %	FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
1	Operating Real Product (Power <25% Charging)	0	614	S1	0.474	100	0.474	1.63	S1	0.327	100	0.327
				S2	0.362		0.362		S2	0.056		0.056
				S3	0.558		0.558		S3	0.292		0.292
				S4	0.357		0.357		S4	0.061		0.061
				Bottom	4.419		4.419		Bottom	0.102		0.102
				Top	0.441		0.441		Top	0.056		0.056
				Max	4.419		4.419		Max	0.327		0.327
				S1	0.422		100		0.422	S1		0.265
	S2			0.383	0.383	S2			0.056	0.056		
	S3			0.447	0.447	S3			0.267	0.267		
	S4			0.362	0.362	S4			0.053	0.053		
	Bottom			4.601	4.601	Bottom			0.108	0.108		
	Top			0.401	0.401	Top			0.056	0.056		
	Max			4.601	4.601	Max			0.267	0.267		
	S1			0.362	100	0.362			S1	0.238	100	0.238
	S2			0.373		0.373	S2		0.067	0.067		
	S3			0.504		0.504	S3		0.160	0.160		
	S4			0.353		0.353	S4		0.055	0.055		
	Bottom			4.135		4.135	Bottom		0.383	0.383		
	Top			0.770		0.770	Top		0.061	0.061		
	Max			4.135		4.135	Max		0.383	0.383		

Configuration #2

FCC Limit													
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit	Electric Field Reading				Magnetic Field Limit	Magnetic Field Reading				
			(V/m)	(V/m)				(A/m)	(A/m)				
			FCC	Location	Peak	Duty Cycle %	FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average	
2	Operating Real Product (Power ~ 25% Charging) (2mm Airgap at Center)	0	614	S1	0.619	100	0.619	1.63	S1	0.565	100	0.565	
				S2	0.429		0.429		S2	0.067		0.067	
				S3	1.014		1.014		S3	0.598		0.598	
				S4	0.362		0.362		S4	0.066		0.066	
				Bottom	8.199		8.199		Bottom	0.380		0.380	
				Top	0.544		0.544		Top	0.105		0.105	
				Max	8.199		8.199		Max	0.598		0.598	
				S1	0.870		0.870		S1	0.379		0.379	
	Operating Real Product (Power <25% Charging) (2mm Airgap & 2mm Shift to the Top)			S2	0.453	100	0.453		S2	0.198	100	0.198	
				S3	1.156		1.156		S3	0.456		0.456	
				S4	0.362		0.362		S4	0.080		0.080	
				Bottom	5.957		5.957		Bottom	0.238		0.238	
				Top	0.469		0.469		Top	0.164		0.164	
				Max	5.957		5.957		Max	0.456		0.456	
				S1	0.910		0.910		S1	0.407		0.407	
				S2	0.504		0.504		S2	0.134		0.134	
	Operating Real Product (Power 25% Charging) (2mm Airgap & 2mm Shift to the Bottom)			S3	1.189	100	1.189		S3	0.527	100	0.527	
				S4	0.460		0.460		S4	0.122		0.122	
				Bottom	8.604		8.604		Bottom	0.569		0.569	
				Top	0.599		0.599		Top	0.104		0.104	
				Max	8.604		8.604		Max	0.569		0.569	
				S1	0.877		0.877		S1	0.465		0.465	
				S2	0.353		0.353		S2	0.098		0.098	
				S3	0.636		0.636		S3	0.320		0.320	
	Operating Real Product (Power ~ 25% - 70% Charging) (2mm Airgap at Center)			S4	0.347	100	0.347		S4	0.053	100	0.053	
				Bottom	5.780		5.780		Bottom	0.195		0.195	
				Top	0.454		0.454		Top	0.096		0.096	
				Max	5.780		5.780		Max	0.465		0.465	
				S1	1.156		1.156		S1	0.877		0.877	
				S2	0.424		0.424		S2	0.273		0.273	
				S3	0.603		0.603		S3	0.441		0.441	
				S4	0.362		0.362		S4	0.070		0.070	
	Operating Real Product (Power ~ 25% - 70% Charging) (2mm Airgap & 2mm Shift to the Top)			Bottom	5.620	100	5.620		Bottom	0.357	100	0.357	
				Top	0.594		0.594		Top	0.109		0.109	
				Max	5.620		5.620		Max	0.877		0.877	
				S1	0.505		0.505		S1	0.692		0.692	
				S2	0.429		0.429		S2	0.171		0.171	
				S3	0.825		0.825		S3	0.424		0.424	
				S4	0.406		0.406		S4	0.362		0.362	
				Bottom	6.696		6.696		Bottom	0.801		0.801	
	Operating Real Product (Power ~ 25% - 70% Charging) (2mm Airgap & 2mm Shift to the Bottom)			Top	0.561	100	0.561		Top	0.102	100	0.102	
				Max	6.696		6.696		Max	0.801		0.801	
				S1	0.571		0.571		S1	0.314		0.314	
				S2	0.373		0.373		S2	0.063		0.063	
				S3	0.487		0.487		S3	0.480		0.480	
				S4	0.347		0.347		S4	0.068		0.068	
				Bottom	5.097		5.097		Bottom	0.129		0.129	
				Top	0.434		0.434		Top	0.087		0.087	
	Operating Real Product (Power >75% Charging) (2mm Airgap at Center)			Max	5.097	100	5.097		Max	0.480	100	0.480	
				S1	1.038		1.038		S1	0.421		0.421	
				S2	0.453		0.453		S2	0.128		0.128	
				S3	0.362		0.362		S3	0.252		0.252	
				S4	0.354		0.354		S4	0.053		0.053	
				Bottom	4.810		4.810		Bottom	0.120		0.120	
				Top	0.623		0.623		Top	0.113		0.113	
				Max	4.810		4.810		Max	0.421		0.421	
	Operating Real Product (Power >75% Charging) (2mm Airgap & 2mm Shift to the Top)			S1	0.344	100	0.344		S1	0.340	100	0.340	
				S2	0.343		0.343		S2	0.139		0.139	
				S3	0.604		0.604		S3	0.556		0.556	
				S4	0.409		0.409		S4	0.111		0.111	
				Bottom	6.185		6.185		Bottom	0.282		0.282	
				Top	0.441		0.441		Top	0.095		0.095	
				Max	6.185		6.185		Max	0.556		0.556	
				S1	0.619		0.619		S1	0.565		0.565	

Configuration #2 H Field in 2cm increment

Note: Please refers to simulation report from SAR.

9.1.2. MODEL A2881**RESULTS**

ID:	29435	Date:	6/8/22
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FCC RF Exposure Summary of Results**Configuration #2:**

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	8.005	1.30%	1.63	0.764	46.87%

E- FIELD AND H- FIELD MEASUREMENTS

Note: Peak measurements were performed. RMS values were calculated from the peak measurement. Please refer to the formula for calculating the RMS values: [Field Strength x $\sqrt{\text{Duty Cycle}}$].

Configuration #2

FCC Limit												
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit		Electric Field Reading				Magnetic Field Limit		Magnetic Field Reading	
			(V/m)		(V/m)				(A/m)		(A/m)	
			FCC	Location	Peak	Duty Cycle %	FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
2	Operating Real Product (Power ~ 25% - 70% Charging) (2mm Airgap & 2mm Shift to the Top)	0	614	S1	1.098	100	1.098	1.63	S1	0.471	100	0.471
				S2	0.613		0.613		S2	0.191		0.191
				S3	3.488		3.488		S3	0.395		0.395
				S4	0.665		0.665		S4	0.081		0.081
				Bottom	8.005		8.005		Bottom	0.764		0.764
				Top	1.313		1.313		Top	0.137		0.137
				Max	8.005		8.005		Max	0.764		0.764

9.1.3. MODEL A2882**RESULTS**

ID:	29435	Date:	6/8/22
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FCC RF Exposure Summary of Results**Configuration #2:**

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	8.082	1.32%	1.63	0.838	51.41%

E- FIELD AND H- FIELD MEASUREMENTS

Note: Peak measurements were performed. RMS values were calculated from the peak measurement. Please refer to the formula for calculating the RMS values: [Field Strength x $\sqrt{\text{Duty Cycle}}$].

Configuration #2:

FCC Limit													
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit	Electric Field Reading				Magnetic Field Limit	Magnetic Field Reading				
			(V/m)	(V/m)				(A/m)	(A/m)				
			FCC	Location	Peak	Duty Cycle %	FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average	
2	Operating Real Product (Power ~< 25% Charging) (2mm Airgap at Center)	0	614	S1	2.422	100	2.422	1.63	S1	0.838	100	0.838	
				S2	0.888		0.888		S2	0.276		0.276	
				S3	3.164		3.164		S3	0.635		0.635	
				S4	0.746		0.746		S4	0.080		0.080	
				Bottom	8.082		8.082		Bottom	0.435		0.435	
				Top	1.276		1.276		Top	0.195		0.195	
				Max	8.082		8.082		Max	0.838		0.838	

9.1.4. MODEL A2883/A2884**RESULTS**

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FCC RF Exposure Summary of Results**Configuration #2:**

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	7.979	1.30%	1.63	0.695	42.64%

E- FIELD AND H- FIELD MEASUREMENTS

Note: Peak measurements were performed. RMS values were calculated from the peak measurement. Please refer to the formula for calculating the RMS values: [Field Strength x $\sqrt{\text{Duty Cycle}}$].

Configuration #2:**FCC Limit**

FCC Limit												
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit	Electric Field Reading				Magnetic Field Limit	Magnetic Field Reading			
			(V/m)	(V/m)				(A/m)	(A/m)			
			FCC	Location	Peak	Duty Cycle %	FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
2	Operating Real Product (Power ~ 25% - 70% Charging) (2mm Airgap & 2mm Shift to the Top)	0	614	S1	1.908	100	1.908	1.63	S1	0.401	100	0.401
				S2	0.936		0.936		S2	0.128		0.128
				S3	3.207		3.207		S3	0.335		0.335
				S4	0.794		0.794		S4	0.056		0.056
				Bottom	7.979		7.979		Bottom	0.695		0.695
				Top	1.195		1.195		Top	0.106		0.106
				Max	7.979		7.979		Max	0.695		0.695

10. SETUP PHOTO

Please see setup photo report 14040867-EP1V1

END OF REPORT