



FCC Part 1 Subpart I
FCC Part 2 Subpart J

CERTIFICATION TEST REPORT

FOR

MAGNETIC CHARGER

MODEL NO: A2876

FCC ID: BCGA2876

REPORT NUMBER: 14253666-E2V3

ISSUE DATE: AUGUST 06, 2022

Prepared for
APPLE INC.
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CUPERTINO, CA 95014, U.S.A

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	7/28/2022	Initial Issue	Chin Pang
V2	8/4/2022	Updated and placed signatures on Page 4	Alejandro Martinez
V3	8/06/2022	Updated block diagram on page 9 & 10	Chin Pang

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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: MAGNETIC CHARGER

MODEL: A2876

BRAND: APPLE

SERIAL NUMBER: DLCHP04E206K

SAMPLE RECEIPT DATE JULY 22, 2022

DATE TESTED: JULY 23-26, 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 Lab Engineer
UL LLC.

Tom Chen
Test Engineer
UL LLC.

2. TEST METHODOLOGY

All measurements made in accordance with KDB 680106.

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 checked="" type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, CA 94538	US0104	22541	550739
<input 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.	No. Operating Frequency are 326.5 kHz and 1.778MHz
(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).	Yes. It is a mobile 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.	The worst case leakage @1.778MHz is 3.62% @326.5kHz is 3.07%

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a magnetic charger which has a single inductive charging coil to charge Apple Watch. The charging frequencies are 1.778MHz and 326.5 kHz, and the maximum power consumption is 5W in charging status.

6.2. WORST-CASE CONFIGURATION AND MODE

The EUT is a dual frequency magnetic charger attached to an metal base for display purpose. For the entire radiated emissions test, the EUT was investigated on the following configuration.

Config	Mode	Descriptions
1	Standby @ 326.5KHz	Standby-EUT Alone powered by AC/DC Adapter
2,3 &4	Operating @1.778MHz. (~10%, 20~60%, and >90% of Watch battery status)	Full test on direct contact during charging between the EUT & Watch #1, #2 & #3 , and the EUT is powered by AC/DC Adapter
5 & 6	Operating @326.5KHz. (~10%, 20~60%, and >90% of Watch battery status)	Full test on direct contact during charging between the EUT & Watch #4 & #5 , and the EUT is powered by AC/DC Adapter

6.3. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

SUPPORT EQUIPMENT & PERIPHERALS LIST				
Description	Manufacturer	Model	Serial Number	Notes
Watch #1	Apple	A2622	N73KY02M96	New Watch, 1.778MHz
Watch #2	Apple	A2771	Q1WC6YF97T	New Watch, 1.778MHz
Watch #3	Apple	A2771	LK27GL7140	New Watch, 1.778MHz
Watch #4	Apple	A2723	C9T7597F69	Legacy Watch, 326.5KHz
Watch #5	Apple	A2727	JG6GRVW93	Legacy Watch, 326.5KHz

I/O CABLES

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

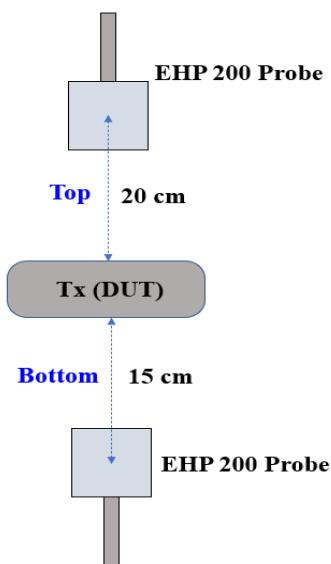
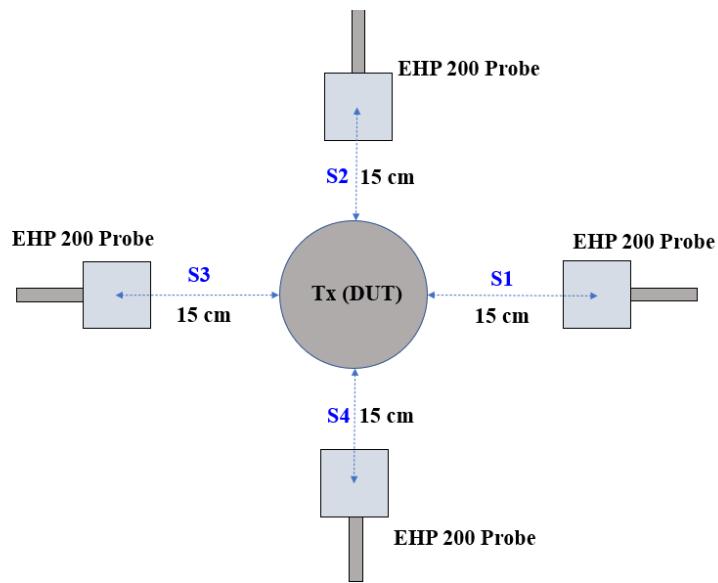
TEST SETUP

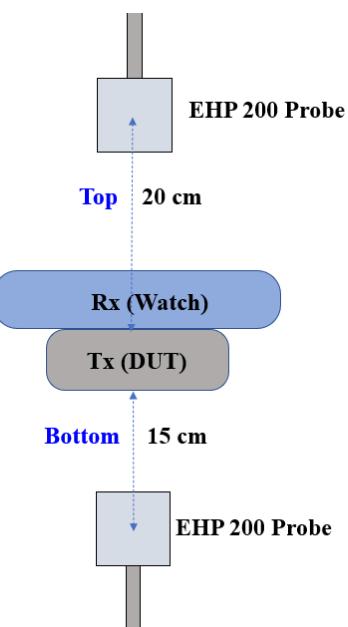
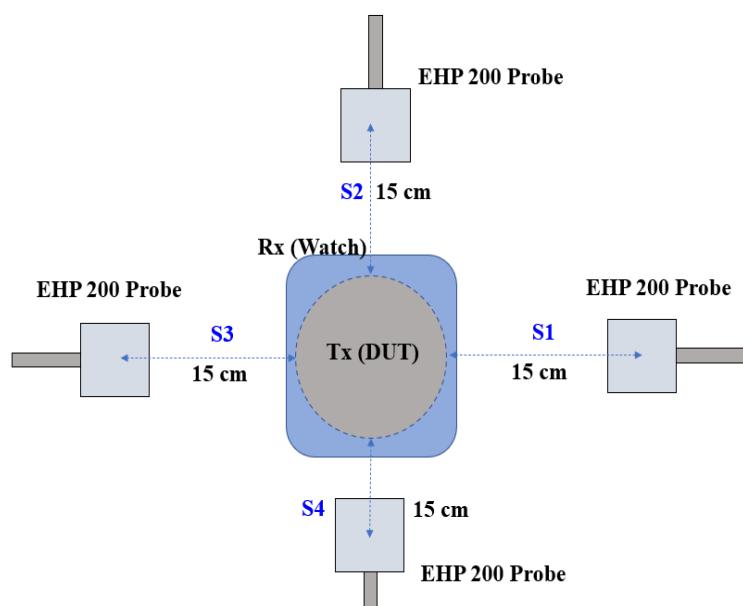
The following configurations are tested:

Configuration	Mode	Descriptions
1 (Standby)	EUT standalone	EUT Powered by AC/DC Adapter
2, 3 & 4 (Operating-Full Test)	(~10% of Watch battery status)	EUT Powered by AC/DC adapter & Wireless Charging to Watch #1,2 & 3 at 1.778MHz
	(20%~60% of Watch battery status)	
	(>90% of Watch battery status)	
5 & 6 (Operating-Full Test)	(~10% of Watch battery status)	EUT Powered by AC/DC adapter & Wireless Charging to Watch #4 & 5 at 326.5KHz
	(20%~60% of Watch battery status)	
	(>90% of Watch battery status)	

MEASUREMENT SETUP

Measurements were taken from the top and all sides of the EUT per KDB680106 D01 v03.

CONFIGURATION 1: Standby**Top View****Side View**

CONFIGURATION 2, 3, 4, 5 & 6: EUT WITH NEW AND LEGACY WATCH**Top View****Side 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	PRE0191851	02/172023	02/17/2022
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	MY55410147	125179	02/01/2023	02/01/2022

8. DUTY CYCLE

LIMITS

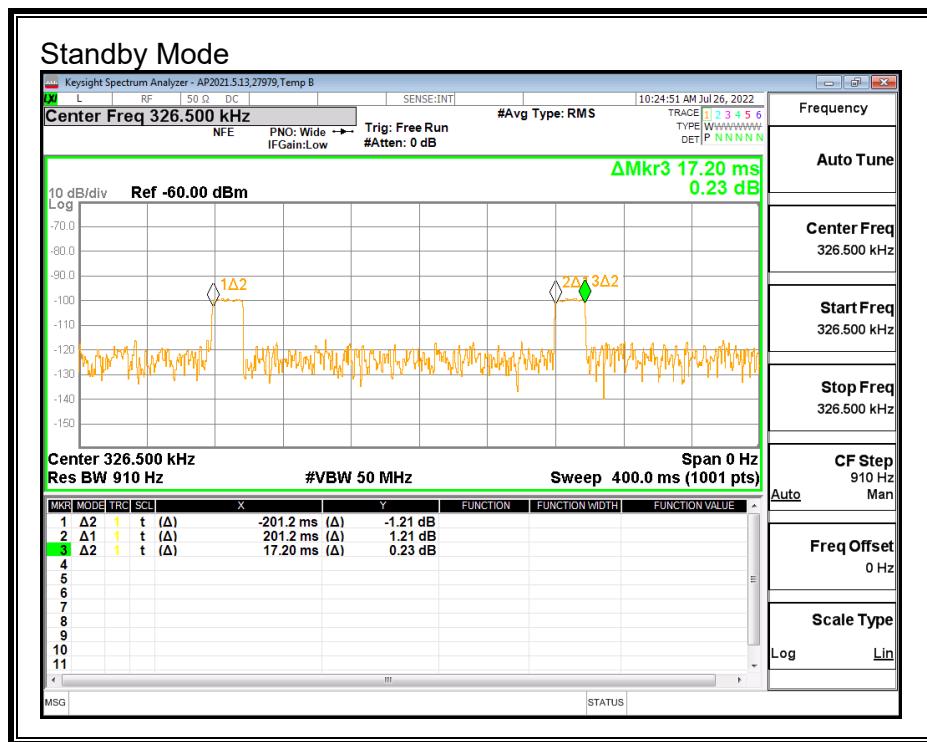
None; for reporting purposes only.

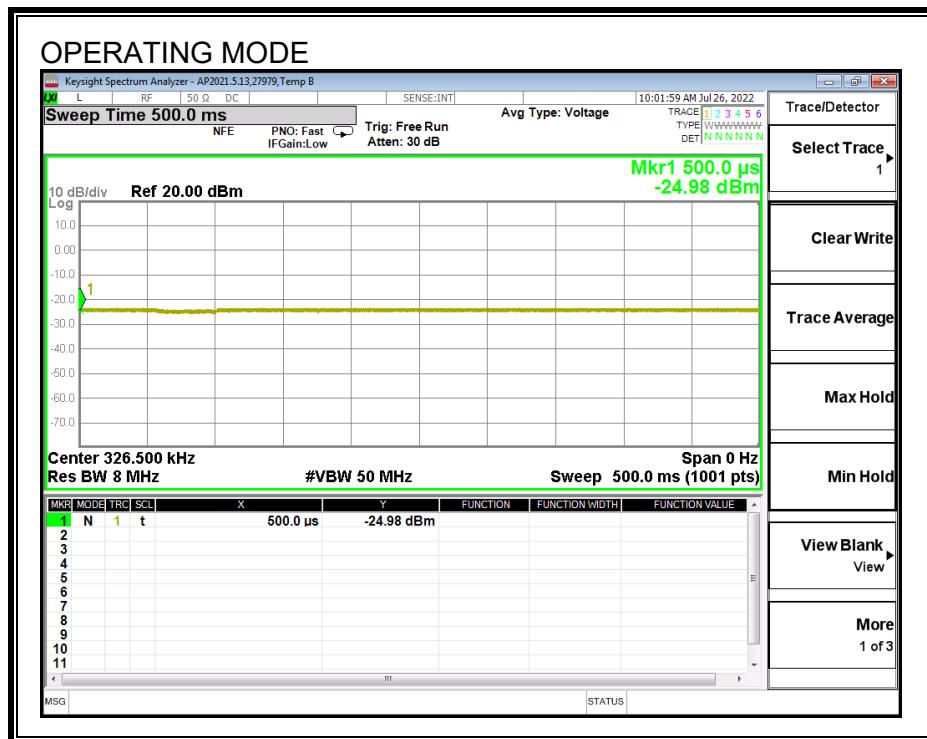
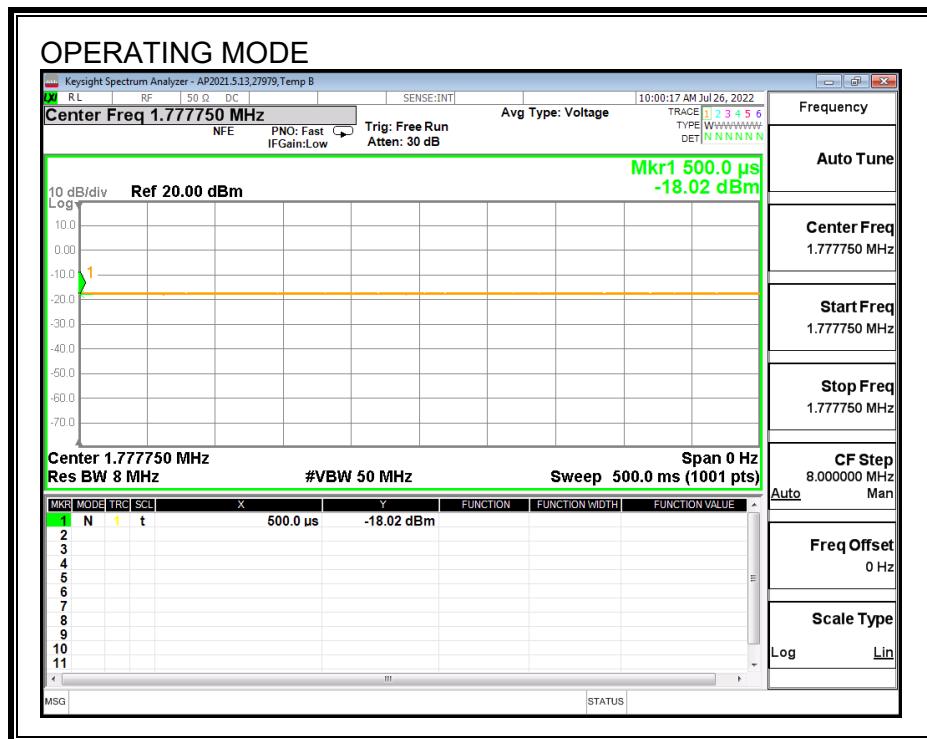
PROCEDURE

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)
Standby (Config 1)	17.20	201.20	0.09	8.55%	10.68
Operating, 326.5KHz	500.00	500.00	1.00	100.00%	0.00
Operating, 1.778MHz	500.00	500.00	1.00	100.00%	0.00



326.5KHz**1.78MHz**

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.

9.1.1. FCC RF Exposure Summary of Results

ID	29435	Date:	07/23-26 /2022
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FCC RF Exposure Summary of Results

Configuration #1: STANDBY MODE

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.075	0.01%	1.63	0.011	0.67%

Configuration #2 EUT WITH NEW WATCH #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	0.247	0.04%	1.63	0.043	2.64%

Configuration #3: EUT WITH NEW WATCH #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	0.417	0.07%	1.63	0.059	3.62%

Configuration #4 EUT WITH NEW WATCH #3

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.427	0.07%	1.63	0.057	3.50%

Configuration #5: EUT WITH LEGACY WATCH #4

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.388	0.06%	1.63	0.050	3.07%

Configuration #6: EUT WITH LEGACY WATCH #5

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.405	0.07%	1.63	0.046	2.82%

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: STANDBY MODE

FCC Limit			Measuring Distance (cm)	Electric Field Limit (V/m)		Electric Field Reading (V/m)			FCC Average	Magnetic Field Limit (A/m)		Magnetic Field Reading (A/m)		
Configuration	Test Mode	FCC		Location	Peak	Duty Cycle %	Location	Peak		Duty Cycle %				
1	Standby	614	15 cm surrounding the device (S1 - S4,Bottom) and 20 cm above the top surface of the EUT	S1	0.172	8.55	0.050	1.63	S1	0.033	8.55	0.010		
				S2	0.256		0.075		S2	0.033		0.010		
				S3	0.181		0.053		S3	0.033		0.010		
				S4	0.210		0.061		S4	0.033		0.010		
				Bottom	0.247		0.072		Bottom	0.033		0.010		
				Top	0.210		0.061		Top	0.039		0.011		
				Max	0.256		0.075		Max	0.039		0.011		

Configuration #2: EUT With New Watch #1 @ 1.778MHz

FCC Limit			Measuring Distance (cm)	Electric Field Limit (V/m)		Electric Field Reading (V/m)			FCC Average	Magnetic Field Limit (A/m)		Magnetic Field Reading (A/m)		
Configuration	Test Mode	FCC		Location	Peak	Duty Cycle %	Location	Peak		Duty Cycle %				
2	Operating Real Product (Power <10% Charging)	614	15 cm surrounding the device (S1 - S4,Bottom) and 20 cm above the top surface of the EUT	S1	0.201	100	0.201	1.63	S1	0.043	100	0.043		
				S2	0.181		0.181		S2	0.033		0.033		
				S3	0.210		0.210		S3	0.043		0.043		
				S4	0.247		0.247		S4	0.024		0.024		
				Bottom	0.191		0.191		Bottom	0.043		0.043		
				Top	0.218		0.218		Top	0.033		0.033		
				Max	0.247		0.247		Max	0.043		0.043		
				S1	0.218		0.218		S1	0.024		0.024		
				S2	0.218		0.218		S2	0.023		0.023		
				S3	0.209		0.209		S3	0.036		0.036		
2	Operating Real Product (Power >20% - 60% Charging)	614	15 cm surrounding the device (S1 - S4,Bottom) and 20 cm above the top surface of the EUT	S4	0.210	100	0.210	1.63	S4	0.013	100	0.013		
				Bottom	0.210		0.210		Bottom	0.023		0.023		
				Top	0.218		0.218		Top	0.033		0.033		
				Max	0.218		0.218		Max	0.036		0.036		
				S1	0.218		0.218		S1	0.024		0.024		
				S2	0.209		0.209		S2	0.023		0.023		
				S3	0.218		0.218		S3	0.035		0.035		
				S4	0.209		0.209		S4	0.033		0.033		
				Bottom	0.181		0.181		Bottom	0.023		0.023		
				Top	0.191		0.191		Top	0.033		0.033		
2	Operating Real Product (Power >90% Charging)	614	15 cm surrounding the device (S1 - S4,Bottom) and 20 cm above the top surface of the EUT	Max	0.218		0.218		Max	0.035		0.035		

Configuration #3: EUT With New Watch #2 @ 1.778MHz

FCC Limit			Measuring Distance (cm)	Electric Field Limit (V/m)		Electric Field Reading (V/m)			(A/m)	Magnetic Field Limit			Magnetic Field Reading (A/m)				
Configuration	Test Mode	FCC		Location	Peak	Duty Cycle %	FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average					
				S1	0.398		0.398	S1	0.054		0.054	0.054					
3	Operating Real Product (Power <10% Charging)	15 cm surrounding the device (S1 - S4,Bottom) and 20 cm above the top surface of the EUT	614	S2	0.407		0.407	S2	0.054		0.054	0.054	100	100	100		
				S3	0.398		0.398	S3	0.054		0.054	0.054					
				S4	0.389		0.389	S4	0.054		0.054	0.054					
				Bottom	0.398		0.398	Bottom	0.054		0.054	0.054					
				Top	0.417		0.417	Top	0.059		0.059	0.059					
	Operating Real Product (Power ~ 20% - 60% Charging)			Max	0.417		0.417	Max	0.059		0.059	0.059					
				S1	0.398		0.398	S1	0.056		0.056	0.056	1.63	100	100		
				S2	0.407		0.407	S2	0.056		0.056	0.056					
				S3	0.408		0.408	S3	0.054		0.054	0.054					
				S4	0.398		0.398	S4	0.056		0.056	0.056					
	Operating Real Product (Power >90% Charging)			Bottom	0.398		0.398	Bottom	0.054		0.054	0.054					
				Top	0.398		0.398	Top	0.054		0.054	0.054					
				Max	0.408		0.408	Max	0.056		0.056	0.056					
				S1	0.398		0.398	S1	0.054		0.054	0.054					
				S2	0.398		0.398	S2	0.053		0.053	0.053					
				S3	0.398		0.398	S3	0.054		0.054	0.054					
				S4	0.398		0.398	S4	0.056		0.056	0.056					
				Bottom	0.398		0.398	Bottom	0.054		0.054	0.054					
				Top	0.408		0.408	Top	0.054		0.054	0.054					
				Max	0.408		0.408	Max	0.056		0.056	0.056					

Configuration #4: EUT With New Watch #3 @ 1.778MHz

FCC Limit			Measuring Distance (cm)	Electric Field Limit (V/m)		Electric Field Reading (V/m)			(A/m)	Magnetic Field Limit			Magnetic Field Reading (A/m)				
Configuration	Test Mode	FCC		Location	Peak	Duty Cycle %	FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average					
				S1	0.389		0.389	S1	0.054		0.054	0.054					
4	Operating Real Product (Power <10% Charging)	15 cm surrounding the device (S1 - S4,Bottom) and 20 cm above the top surface of the EUT	614	S2	0.389		0.389	S2	0.054		0.054	0.054	100	100	100		
				S3	0.381		0.381	S3	0.054		0.054	0.054					
				S4	0.398		0.398	S4	0.057		0.057	0.057					
				Bottom	0.407		0.407	Bottom	0.056		0.056	0.056					
				Top	0.427		0.427	Top	0.054		0.054	0.054					
	Operating Real Product (Power ~ 20% - 60% Charging)			Max	0.427		0.427	Max	0.057		0.057	0.057					
				S1	0.380		0.380	S1	0.054		0.054	0.054					
				S2	0.388		0.388	S2	0.054		0.054	0.054					
				S3	0.398		0.398	S3	0.056		0.056	0.056					
				S4	0.398		0.398	S4	0.054		0.054	0.054					
	Operating Real Product (Power >90% Charging)			Bottom	0.398		0.398	Bottom	0.056		0.056	0.056	1.63	100	100		
				Top	0.393		0.393	Top	0.054		0.054	0.054					
				Max	0.398		0.398	Max	0.056		0.056	0.056					
				S1	0.398		0.398	S1	0.056		0.056	0.056					
				S2	0.388		0.388	S2	0.056		0.056	0.056					
				S3	0.407		0.407	S3	0.054		0.054	0.054					
				S4	0.408		0.408	S4	0.054		0.054	0.054					
				Bottom	0.380		0.380	Bottom	0.056		0.056	0.056					
				Top	0.408		0.408	Top	0.054		0.054	0.054					
				Max	0.408		0.408	Max	0.056		0.056	0.056					

Configuration #5: EUT With Legacy Watch #4 @ 326.5KHz

FCC Limit															
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)						
				FCC	Location	Peak	Duty Cycle %		FCC	Location	Peak	Duty Cycle %	FCC Average		
5	Operating Real Product (Power <10% Charging)	15 cm surrounding the device (S1 - S4,Bottom) and 20 cm above the top surface of the EUT	614	S1	0.353			0.353	1.63	S1	0.044		0.044		
				S2	0.326			0.326		S2	0.042		0.042		
				S3	0.336			0.336		S3	0.042		0.042		
				S4	0.335			0.335		S4	0.044		0.044		
				Bottom	0.355			0.355		Bottom	0.044		0.044		
	Operating Real Product (Power ~ 20% - 60% Charging)			Top	0.327			0.327		Top	0.038		0.038		
				Max	0.355			0.355		Max	0.044		0.044		
				S1	0.337			0.337		S1	0.050		0.050		
				S2	0.371			0.371		S2	0.042		0.042		
				S3	0.317			0.317		S3	0.047		0.047		
	Operating Real Product (Power >90% Charging)			S4	0.388			0.388		S4	0.044		0.044		
				Bottom	0.364			0.364		Bottom	0.042		0.042		
				Top	0.362			0.362		Top	0.045		0.045		
				Max	0.388			0.388		Max	0.050		0.050		
				S1	0.383			0.383		S1	0.042		0.042		
				S2	0.326			0.326		S2	0.047		0.047		
				S3	0.317			0.317		S3	0.042		0.042		
				S4	0.335			0.335		S4	0.044		0.044		
				Bottom	0.317			0.317		Bottom	0.040		0.040		
				Top	0.357			0.357		Top	0.044		0.044		
				Max	0.383			0.383		Max	0.047		0.047		

Configuration #6: EUT With Legacy Watch #5 @ 326.5KHz

FCC Limit															
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)						
				FCC	Location	Peak	Duty Cycle %		FCC	Location	Peak	Duty Cycle %	FCC Average		
6	Operating Real Product (Power <10% Charging)	15 cm surrounding the device (S1 - S4,Bottom) and 20 cm above the top surface of the EUT	614	S1	0.262			0.262	1.63	S1	0.004		0.004		
				S2	0.218			0.218		S2	0.005		0.005		
				S3	0.235			0.235		S3	0.004		0.004		
				S4	0.228			0.228		S4	0.005		0.005		
				Bottom	0.247			0.247		Bottom	0.004		0.004		
	Operating Real Product (Power ~ 20% - 60% Charging)			Top	0.228			0.228		Top	0.004		0.004		
				Max	0.262			0.262		Max	0.005		0.005		
				S1	0.355			0.355		S1	0.042		0.042		
				S2	0.405			0.405		S2	0.040		0.040		
				S3	0.335			0.335		S3	0.046		0.046		
	Operating Real Product (Power >90% Charging)			S4	0.362			0.362		S4	0.043		0.043		
				Bottom	0.251			0.251		Bottom	0.004		0.004		
				Top	0.247			0.247		Top	0.005		0.005		
				Max	0.405			0.405		Max	0.046		0.046		
				S1	0.228			0.228		S1	0.029		0.029		
				S2	0.235			0.235		S2	0.031		0.031		
				S3	0.228			0.228		S3	0.025		0.025		
				S4	0.218			0.218		S4	0.027		0.027		
				Bottom	0.228			0.228		Bottom	0.027		0.027		
				Top	0.209			0.209		Top	0.031		0.031		
				Max	0.235			0.235		Max	0.031		0.031		

10. SETUP PHOTO

Please see setup photo report 14253666-EP1V1

END OF REPORT