



**FCC Part 1 Subpart I
FCC Part 2 Subpart J**

CERTIFICATION TEST REPORT

FOR

MAGNETIC CHARGER

MODEL NO: A2929

FCC ID: BCGA2929

REPORT NUMBER: 14499781-E2V1

ISSUE DATE: SEPTEMBER 20, 2022

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

Prepared by
UL VERIFICATION SERVICES INC.
47173 BENICIA STREET
FREMONT, CA 94538, U.S.A.
TEL: (510) 771-1000
FAX: (510) 661-0888



Revision History

Rev.	Issue Date	Revisions	Revised By
V1	9/20/2022	Initial Issue	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: A2929

BRAND: APPLE

SERIAL NUMBER: DLC2317003124GH1C

SAMPLE RECEIPT DATE AUGUST 30, 2022



DATE TESTED: SEPTEMBER 16-20, 2022

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

UL Verification Services Inc. 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 Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. 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 Verification Services Inc.		Tom Chen Test Engineer UL Verification Services Inc.

2. TEST METHODOLOGY

All measurements made in accordance with KDB 680106.

3. FACILITIES AND ACCREDITATION

UL Verification Services Inc. 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 8.16% @326.5kHz is 3.13%

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 326.5 kHz and 1.778MHz, 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
AC Adapter	Apple	A2305	C4H01050096PF4FAH	N/A

I/O CABLES

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

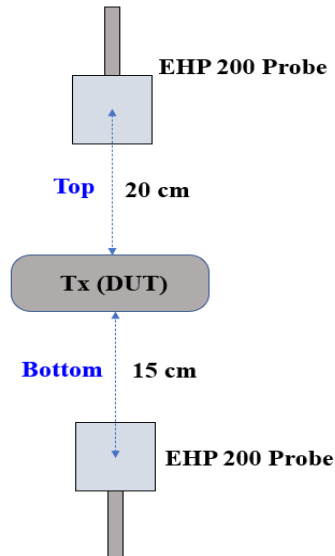
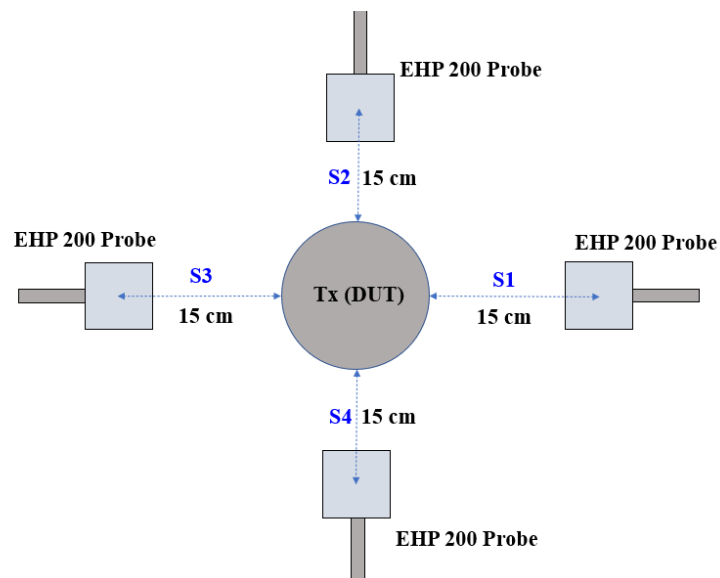
TEST SETUP

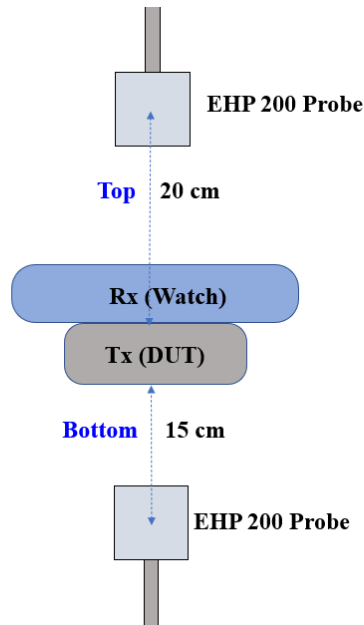
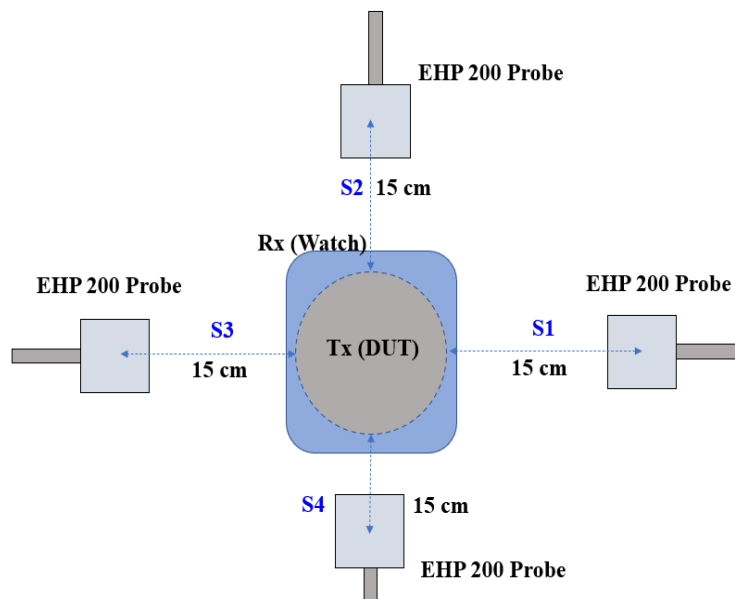
The following configurations are tested:

Configuration	Mode	Descriptions
1 (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	02/17/2023	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

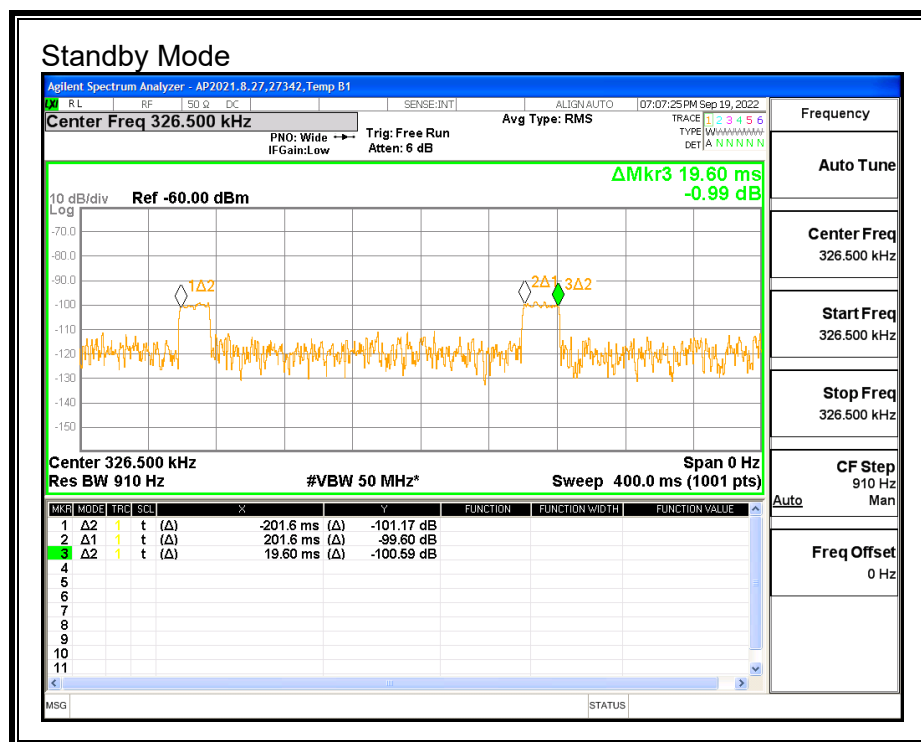
None; for reporting purposes only.

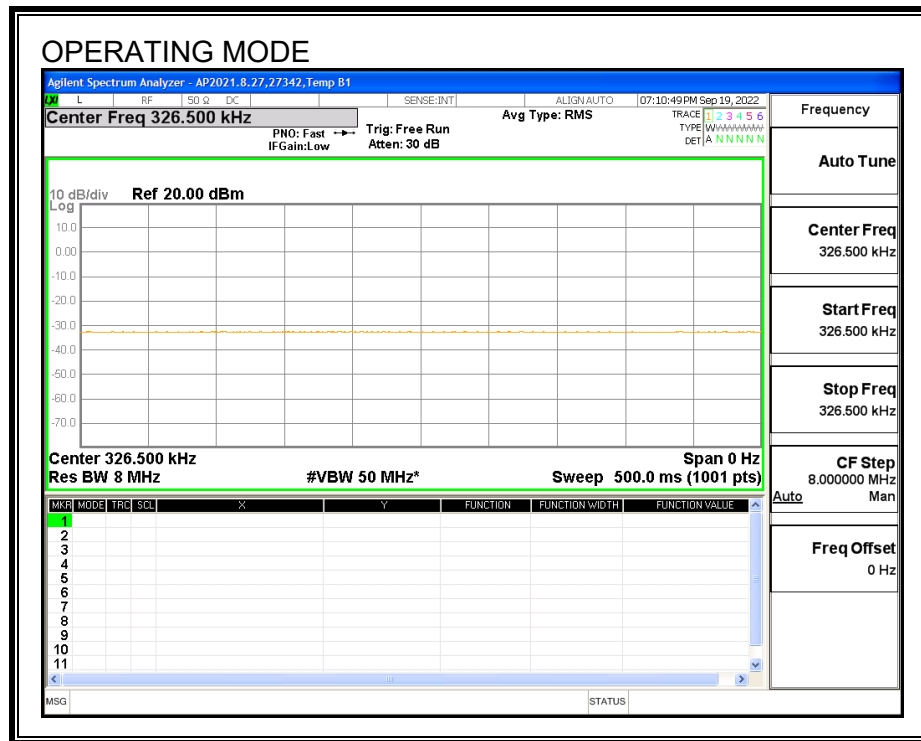
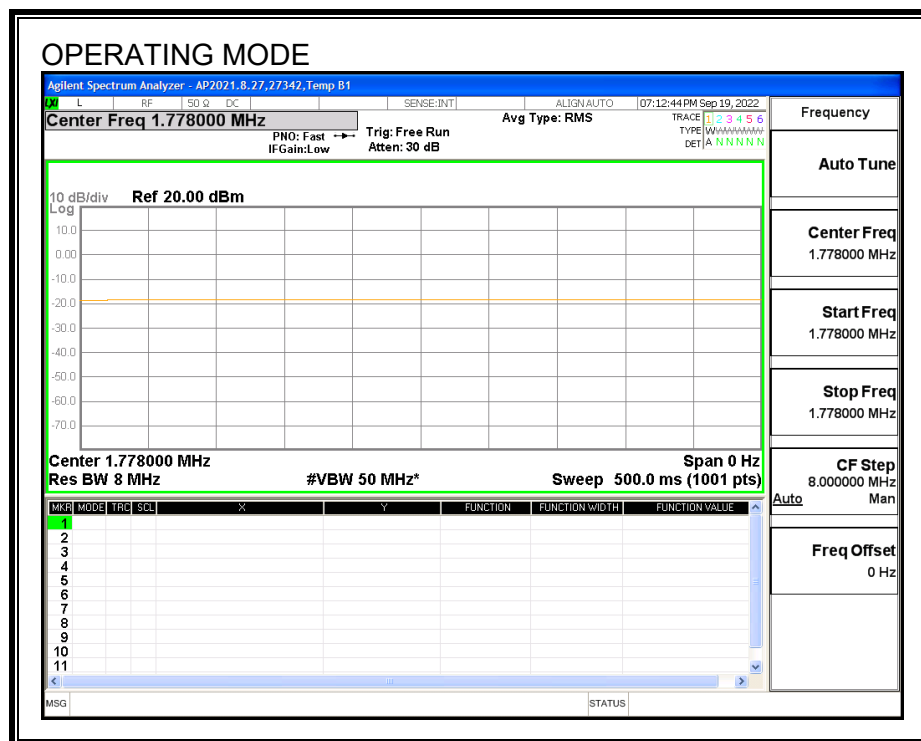
PROCEDURE

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)	19.60	201.60	0.10	9.72%	10.12
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:	9/16-20/2022
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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	0.116	0.02%	1.63	0.014	0.86%

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	0.416	0.07%	1.63	0.058	3.56%

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	0.554	0.09%	1.63	0.133	8.16%

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	0.429	0.07%	1.63	0.063	3.87%

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	0.375	0.06%	1.63	0.051	3.13%

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	0.388	0.06%	1.63	0.048	2.94%

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												
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	Standby	15 cm surrounding the device (S1 - S4,Bottom) and 20 cm above the top surface of the EUT	614	S1	0.364	9.72	0.113	1.63	S1	0.044	9.72	0.014
				S2	0.314		0.098		S2	0.043		0.013
				S3	0.336		0.105		S3	0.044		0.014
				S4	0.371		0.116		S4	0.042		0.013
				Bottom	0.361		0.113		Bottom	0.044		0.014
				Top	0.338		0.105		Top	0.046		0.014
				Max	0.371		0.116		Max	0.046		0.014

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

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 <10% Charging)	15 cm surrounding the device (S1 - S4,Bottom) and 20 cm above the top surface of the EUT	614	S1	0.398	100	0.398	1.63	S1	0.054	100	0.054
				S2	0.398		0.398		S2	0.056		0.056
				S3	0.408		0.408		S3	0.054		0.054
				S4	0.389		0.389		S4	0.054		0.054
				Bottom	0.398		0.398		Bottom	0.054		0.054
				Top	0.407		0.407		Top	0.055		0.055
				Max	0.408		0.408		Max	0.056		0.056
				S1	0.370		0.370		S1	0.052		0.052
	Operating Real Product (Power ~ 20% - 60% Charging)			S2	0.381	0.381	S2		0.049	0.049		
				S3	0.374	0.374	S3		0.049	0.049		
				S4	0.380	0.380	S4		0.049	0.049		
				Bottom	0.416	0.416	Bottom		0.053	0.053		
				Top	0.398	0.398	Top		0.058	0.058		
				Max	0.416	0.416	Max		0.058	0.058		
				S1	0.361	0.361	S1		0.005	0.005		
				Operating Real Product (Power >90% Charging)	S2	0.381	0.381		S2	0.005	0.005	
	S3				0.371	0.371	S3		0.007	0.007		
	S4				0.361	0.361	S4		0.007	0.007		
	Bottom				0.352	0.352	Bottom		0.005	0.005		
	Top				0.361	0.361	Top		0.006	0.006		
	Max				0.381	0.381	Max		0.007	0.007		

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

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
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	S1	0.352	100	0.352	1.63	S1	0.005	100	0.005
				S2	0.352		0.005		S2	0.005		0.005
				S3	0.380		0.380		S3	0.005		0.005
				S4	0.345		0.345		S4	0.005		0.005
				Bottom	0.347		0.347		Bottom	0.005		0.005
				Top	0.352		0.352		Top	0.005		0.005
				Max	0.380		0.380		Max	0.005		0.005
	Operating Real Product (Power ~ 20% - 60% Charging)			S1	0.380	100	0.380		S1	0.052	100	0.052
				S2	0.398		0.398		S2	0.056		0.056
				S3	0.554		0.554		S3	0.095		0.095
				S4	0.463		0.463		S4	0.133		0.133
				Bottom	0.364		0.364		Bottom	0.051		0.051
				Top	0.380		0.380		Top	0.052		0.052
				Max	0.554		0.554		Max	0.133		0.133
	Operating Real Product (Power >90% Charging)			S1	0.371	100	0.371		S1	0.047	100	0.047
				S2	0.361		0.361		S2	0.051		0.051
				S3	0.371		0.371		S3	0.051		0.051
				S4	0.380		0.380		S4	0.051		0.051
				Bottom	0.398		0.398		Bottom	0.054		0.054
				Top	0.398		0.398		Top	0.054		0.054
				Max	0.398		0.398		Max	0.054		0.054

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

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
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	S1	0.361	100	0.361	1.63	S1	0.005	100	0.005
				S2	0.335		0.335		S2	0.005		0.005
				S3	0.381		0.381		S3	0.006		0.006
				S4	0.369		0.369		S4	0.005		0.005
				Bottom	0.364		0.364		Bottom	0.005		0.005
				Top	0.361		0.361		Top	0.005		0.005
				Max	0.381		0.381		Max	0.006		0.006
	Operating Real Product (Power ~ 20% - 60% Charging)			S1	0.398	100	0.398		S1	0.063	100	0.063
				S2	0.408		0.408		S2	0.054		0.054
				S3	0.429		0.429		S3	0.054		0.054
				S4	0.381		0.381		S4	0.054		0.054
				Bottom	0.398		0.398		Bottom	0.054		0.054
				Top	0.398		0.398		Top	0.054		0.054
				Max	0.429		0.429		Max	0.063		0.063
	Operating Real Product (Power >90% Charging)			S1	0.383	100	0.383		S1	0.056	100	0.056
				S2	0.398		0.398		S2	0.060		0.060
				S3	0.398		0.398		S3	0.057		0.057
				S4	0.408		0.408		S4	0.054		0.054
				Bottom	0.408		0.408		Bottom	0.054		0.054
				Top	0.416		0.416		Top	0.056		0.056
				Max	0.416		0.416		Max	0.060		0.060

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

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
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	0.335	100	0.335	1.63	S1	0.044	100	0.044
				S2	0.343		0.343		S2	0.043		0.043
				S3	0.335		0.335		S3	0.044		0.044
				S4	0.343		0.343		S4	0.049		0.049
				Bottom	0.335		0.335		Bottom	0.044		0.044
				Top	0.371		0.371		Top	0.042		0.042
				Max	0.371		0.371		Max	0.049		0.049
				S1	0.326		100		0.326	S1		0.051	100	0.051
	S2			0.328	0.328	S2			0.046	0.046		
	S3			0.355	0.355	S3			0.040	0.040		
	S4			0.375	0.375	S4			0.044	0.044		
	Bottom			0.335	0.335	Bottom			0.044	0.044		
	Top			0.343	0.343	Top			0.044	0.044		
	Max			0.375	0.375	Max			0.051	0.051		
	S1			0.371	100	0.371			S1	0.045	100	0.045
	S2			0.346		0.346	S2		0.045	0.045		
	S3			0.343		0.343	S3		0.045	0.045		
	S4			0.343		0.343	S4		0.044	0.044		
	Bottom			0.355		0.355	Bottom		0.042	0.042		
	Top			0.345		0.345	Top		0.042	0.042		
	Max			0.371		0.371	Max		0.045	0.045		

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

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
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	0.353	100	0.353	1.63	S1	0.045	100	0.045
	S2			0.343	0.343		S2		0.045	0.045		
	S3			0.343	0.343		S3		0.047	0.047		
	S4			0.343	0.343		S4		0.045	0.045		
	Bottom			0.345	0.345		Bottom		0.043	0.043		
	Top			0.338	0.338		Top		0.043	0.043		
	Max			0.353	0.353		Max		0.047	0.047		
	Operating Real Product (Power ~ 20% - 60% Charging)			S1	0.355	100	0.355		S1	0.044	100	0.044
				S2	0.355		0.355		S2	0.044		0.044
				S3	0.343		0.343		S3	0.044		0.044
				S4	0.388		0.388		S4	0.044		0.044
				Bottom	0.371		0.371		Bottom	0.043		0.043
				Top	0.371		0.371		Top	0.048		0.048
				Max	0.388		0.388		Max	0.048		0.048
	Operating Real Product (Power >90% Charging)			S1	0.335	100	0.335		S1	0.042	100	0.042
				S2	0.345		0.345		S2	0.042		0.042
				S3	0.364		0.364		S3	0.044		0.044
				S4	0.335		0.335		S4	0.044		0.044
				Bottom	0.355		0.355		Bottom	0.044		0.044
				Top	0.336		0.336		Top	0.042		0.042
				Max	0.364		0.364		Max	0.044		0.044

10. SETUP PHOTO

Please see setup photo report 14499781-EP1V1

END OF REPORT