

TEST REPORT

Product Name : Wireless Charger
Model Number : USB2028AC, USB1518, USB1528AC,
USB1528C, USB2028C
FCC ID : GX7-USB2028AC

Prepared for : Hubbell Incorporated(Delaware) Wiring Device Kellems
Division
Address : 40 Waterview Drive Shelton, CT 06484, USA
Prepared by : EMTEK (DONGGUAN) CO., LTD.
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Date(s) of Tests : Jun 20, 2024 to Jul 28, 2024
Date of issue : Jul 29, 2024

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1. TEST REPORT DESCRIPTION

Applicant : Hubbell Incorporated(Delaware) Wiring Device Kellems Division

Address : 40 Waterview Drive Shelton, CT 06484, USA

Manufacturer : Dongguan Hubbell Electrical Products Co .Ltd.

Address : Xicheng Industrial zone Heng Li Town, Dongguan City Guangdong Province, PRC

Factory : Dongguan Hubbell Electrical Products Co .Ltd.

Address : Xicheng Industrial zone Heng Li Town, Dongguan City Guangdong Province, PRC

EUT : Wireless Charger

Model Name : USB2028AC, USB1518, USB1528AC, USB1528C, USB2028C

Trademark : HUBBELL

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS

The above equipment was tested by DONGGUAN EMTEK CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15C

The test results of this report relate only to the tested sample identified in this report.

Date of Test : Jun 20, 2024 to Jul 28, 2024

Prepared by : 

Warren Deng /Editor

Reviewer : 

Tim Dong /Supervisor

Approve & Authorized Signer : 

Sam Lv / Manager



Modified History

Version	Report No.	Revision Date	Summary
	EDG2406200140E00201R	/	Original Report



2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Characteristics	Description
Product Name	Wireless Charger
Model number	USB2028AC, USB1518, USB1528AC, USB1528C, USB2028C Only the model USB2028AC was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on USB receptacle.
Power Supply	AC 120V/60Hz
Operating Frequency Range	111-205KHz
Modulation Technique	FSK
ANTWireless Output Power	7.5W Max
Antenna Type	Induction Coil antenna
Temperature Range	-10°C to +65°C

2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	Enclosure	N/E	--	--	None
2	DC IN port	I/O	No	Unshielded	1 port
3	USB port	DC	No	Unshielded	1 port
* Note: For the purposes of the present document, the following symbols apply: AC AC Power Port DC DC Power Port N/E Non-Electrical I/O Signal Input or Output Port (Not Involved in Process Control) TP Telecommunication Ports					

2.3. Independent Operation Modes

- A ON
1. Wireless 7.5W(100% load)
 2. Wireless 7.5W(50% load)
 3. Wireless 7.5W(10% load)
- Note: The mode 1 is the worst mode

2.4. Test Manner

Test Items	Test Voltage	Operation Modes
Conducted Emission	AC 120V/60Hz	Mode A.1
Radiated Emission	AC 120V/60Hz	Mode A.1

2.5. Description of Test Facility

Site Description

EMC Lab.

: **Accredited by CNAS**

The Laboratory has been assessed and proved to be in compliance with CNAS/CL01:2018

The Certificate Registration Number is L3150

Accredited by FCC

Designation Number: CN1300

Test Firm Registration Number: 945551

Accredited by A2LA

The Certificate Registration Number is 4321.02

Accredited by Industry Canada

The Certificate Registration Number is CN0113

Name of Firm

: EMTEK(DONGGUAN) CO., LTD.

Site Location

: -1&2/F., Building 2, Zone A, Zhongda Marine Biotechnology Research and Development Base, N.9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong, China

2.6. Test Software

Item

Software

Conducted Emission : EMTEK(Ver.CON-03A1)

Radiated Emission : EMTEK(Ver.RA-03A1)

2.7. Description of Support Device

No.	Equipment	Trade name	Model	S/N	Power Cord
1.	iPhone 8	APPLE	7.5W	N/A	N/A
2.					
3.					

2.8. Measurement Uncertainty

Test Item

Uncertainty

Conducted Emission Uncertainty : 3.16dB(9k~150kHz Conduction 2#)
2.90dB(150k~30MHz Conduction 2#)

Radiated Emission Uncertainty : 3.78dB (30M~1GHz Polarize: H)
(3m Chamber) 4.27dB (30M~1GHz Polarize: V)
4.46dB (1~6GHz)

3. SUMMARY OF TEST RESULTS

EMISSION		
Description of Test Item	Standard & Limits	Results
20DB BANDWIDTH	FCC Part 15, Subpart C- Section 15.217-257 ANSI C63.10-2013	Pass
Conducted Emission	FCC Part 15, Subpart C- Section 15.207 ANSI C63.10-2013	Pass
Radiated Emission	FCC Part 15, Subpart C- Section 15.209 ANSI C63.10-2013	Pass
Antenna requirement	FCC Part 15, Subpart C- Section 15.203 ANSI C63.10-2013	Pass
Note: N/A is an abbreviation for Not Applicable.		

4. MEASURING DEVICE AND TEST EQUIPMENT

4.1. Conducted Emission Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	100137	2024/4/29	1Year
AMN	Rohde&Schwarz	ENV216	101209	2024/4/28	1Year
AMN	Rohde&Schwarz	ENV216	100017	2024/4/28	1Year
RF Switching Unit	CDS	RSU-M2	38401	2024/4/28	1Year
AMN	Schwarzbeck	NNLK8121	8121-641	2024/4/28	1Year
AMN	Rohde&Schwarz	ESH3-Z6	101101	2024/4/28	1Year
AMN	Rohde&Schwarz	ESH3-Z6	101102	2024/4/28	1Year
Power Splitters & Dividers	Weinschel Associates	WA1506A	A1066	2024/4/28	1Year
Current Probe	FCC	F-52	8377	2024/4/28	1Year
Passive voltage probe	Rohde&Schwarz	ESH2-Z3	100122	2024/4/28	1Year
Cable	Rosenberger	RG 223/U	525178	2024/4/28	2Year
Cable	Rosenberger	RG223/U	525179	2024/4/28	2Year
Test Software	Farad	Ver.CON-03A1	--	N/A	N/A

4.2. For 3m Radiated Emission Measurement

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	101415	2024/4/28	1Year
Bi-log Hybrid Antenna	Schwarzbeck	VULB9163	141	2024/5/5	1Year
Pre-Amplifie	HP	8447F	OPTH64	2024/4/28	1 Year
Signal Analyzer	R&S	FSV30	103039	2024/4/28	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	1272	2024/5/5	1Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-567	2024/5/5	1Year
Pre-Amplifie	LUNAR EM	PM1-18-40	J10100000081	2024/4/28	1Year
Loop antenna	Schwarzbeck	FMZB1519	1519-012	2024/5/5	1Year
Cable	Rosenberger	CIL02	A0783566	2024/4/28	2Year
Cable	HTS	CBL-26	D1245	2024/4/28	2Year
Cable	HTS	CBL-26	D8503	2024/4/28	2Year
Cable	HTS	CBL-26	/	2024/4/28	2Year
6 db attenuator	AR-WORLDWIDE	6dB/50FH-006-100	324011	2024/4/28	1Year
Test Software	Farad	Ver.RA-03A1	--	N/A	N/A

4.3. For other test items:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Wireless Connectivity Tester	R&S	CMW270	102543	2024/4/29	1Year
Automatic Control Unit	Tonscend	JS0806-2	2118060480	2024/4/29	1Year
Signal Analyzer	KEYSIGHT	N9010B	MY60242456	2024/4/29	1Year
Analog Signal Generator	KEYSIGHT	N5173B	MY61252625	2024/4/29	1Year
UP/DOWN-Converter	R&S	CMW-Z800A	100274	2024/4/29	1Year
Vector Signal Generator	KEYSIGHT	N5182B	MY61252674	2024/4/29	1Year
Frequency Extender	KEYSIGHT	N5182BX07	MY59362541	2024/4/29	1Year
Temperature&Humidity test chamber	ESPEC	EL-02KA	12107166	2024/4/29	1 Year
Radio frequency test system	Tonscend	JS1120-3	--	N/A	N/A

For measurement cables(It is from the antenna end of EUT to the test port of test equipment.)

Equipment	Manufacturer	cable loss	Application frequency band	Measurement data of line loss comes from	Last Cal.	Cal. Interval
Measurement cable	Provided by the applicant	0.5 dBm	111-205KHz	Manufacturers claim themselves.	N/A	N/A

5. 20DB BANDWIDTH

5.1. Test Procedure

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1Hz.

Set the video bandwidth (VBW) =3Hz.

Set Span= 100Hz

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Measure and record the results in the test report.

5.2. Test Results

Temperature: 25°C

Test Date:

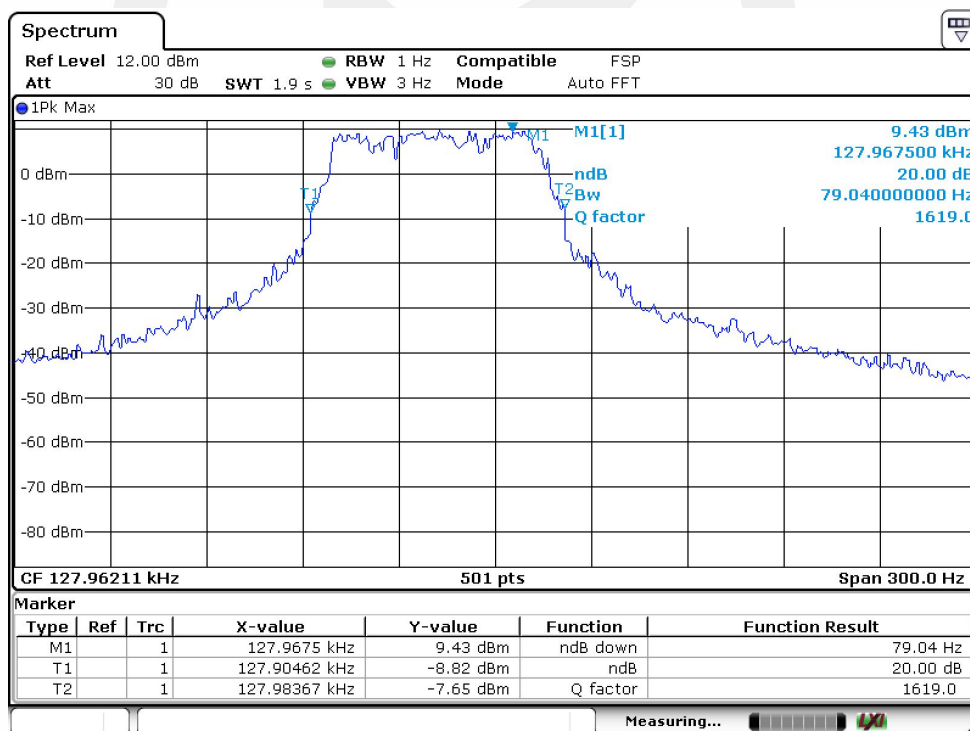
2024.07.25

Humidity: 57 %

Test By:

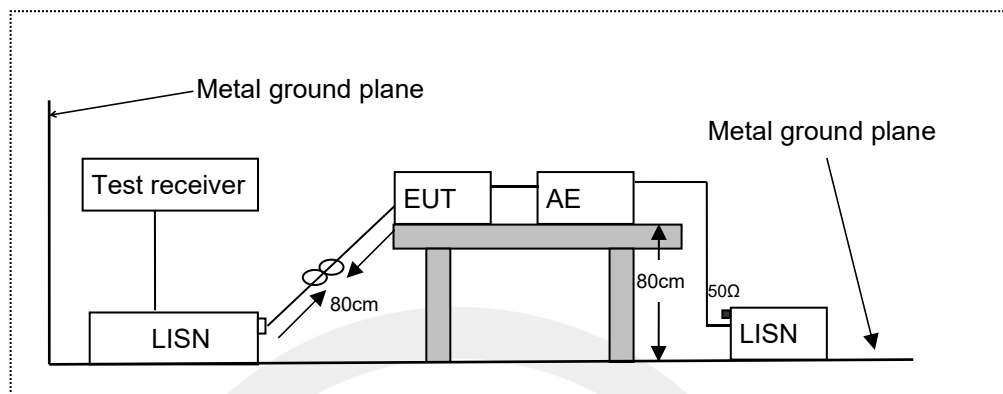
Calvin

ANT1 20dB Band=79.04 Hz



6. POWER LINE CONDUCTED EMISSION MEASUREMENT

6.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network

AE: Associated equipment

EUT: Equipment under test

6.2. Limits

FCC Part 15.207

Frequency (MHz)		Limit (dBμV)	
		Quasi-peak Level	Average Level
0.15	~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~ 5.00	56.0	46.0
5.00	~ 30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.
NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

6.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

Test results were obtained from the following equation:

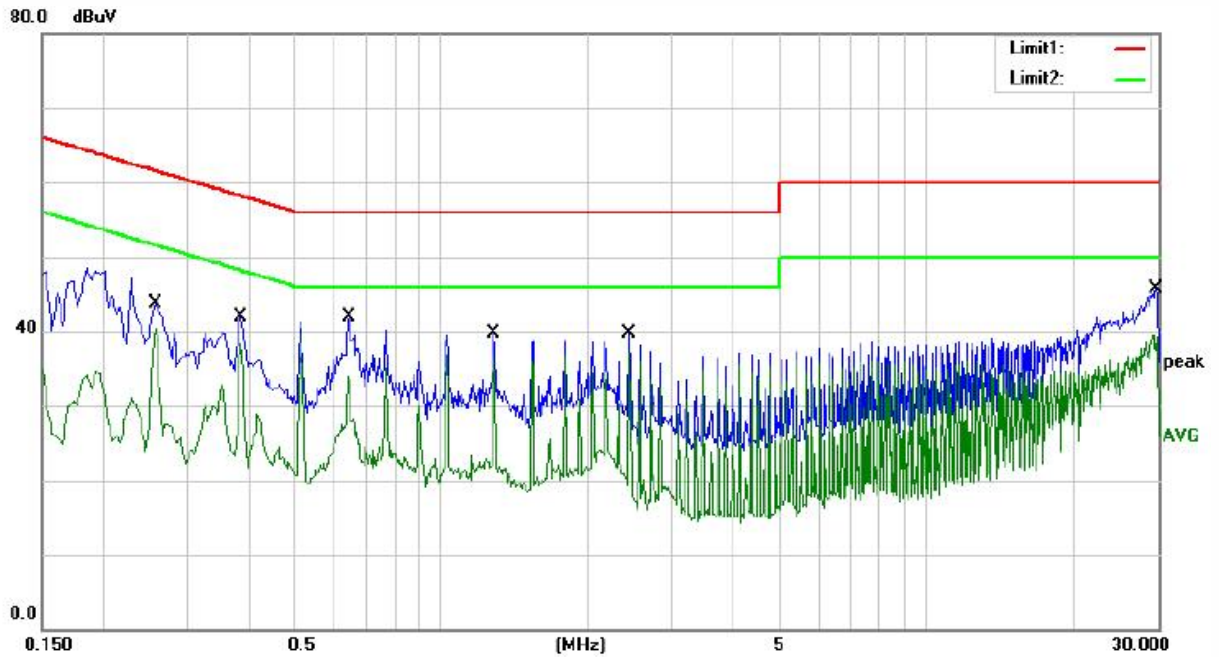
Emission Level (dBμV) = LISN Factor (dB) + Cable Loss (dB) + Reading (dBμV)

Margin (dB) = Emission Level (dBμV) - Limit (dBμV)

6.4. Measuring Results

PASS.





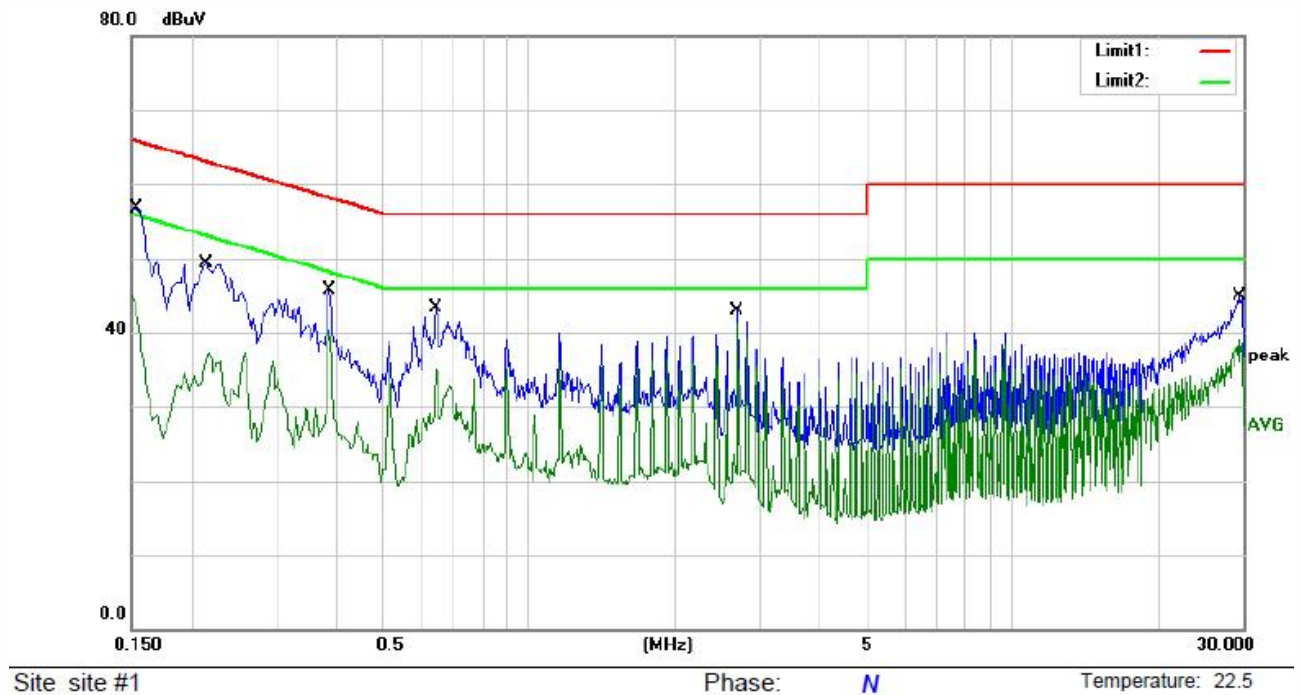
Site site #1

Phase: L1

Temperature: 22.5

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2580	26.59	17.08	43.67	61.50	-17.83	QP	
2		0.2580	23.14	17.08	40.22	51.50	-11.28	AVG	
3		0.3860	24.86	17.04	41.90	58.15	-16.25	QP	
4		0.3860	21.32	17.04	38.36	48.15	-9.79	AVG	
5		0.6460	24.94	17.04	41.98	56.00	-14.02	QP	
6		0.6460	16.90	17.04	33.94	46.00	-12.06	AVG	
7		1.2860	22.73	17.05	39.78	56.00	-16.22	QP	
8		1.2860	19.68	17.05	36.73	46.00	-9.27	AVG	
9		2.4460	22.55	17.07	39.62	56.00	-16.38	QP	
10	*	2.4460	20.07	17.07	37.14	46.00	-8.86	AVG	
11		29.7140	28.56	17.11	45.67	60.00	-14.33	QP	
12		29.7140	22.44	17.11	39.55	50.00	-10.45	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jian



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1540	39.70	17.06	56.76	65.78	-9.02	QP	
2		0.1540	28.37	17.06	45.43	55.78	-10.35	AVG	
3		0.2140	32.36	17.04	49.40	63.05	-13.65	QP	
4		0.2140	20.24	17.04	37.28	53.05	-15.77	AVG	
5		0.3860	28.61	17.04	45.65	58.15	-12.50	QP	
6		0.3860	23.30	17.04	40.34	48.15	-7.81	AVG	
7		0.6420	26.30	17.04	43.34	56.00	-12.66	QP	
8		0.6420	18.13	17.04	35.17	46.00	-10.83	AVG	
9		2.7020	25.76	17.05	42.81	56.00	-13.19	QP	
10	*	2.7020	24.24	17.05	41.29	46.00	-4.71	AVG	
11		29.4660	27.79	17.12	44.91	60.00	-15.09	QP	
12		29.4660	22.05	17.12	39.17	50.00	-10.83	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jian

Remark:

1. Measurement (dBμV) = AMN Factor (dB) + Cable Loss (dB) + Reading (dBμV)
2. Over (dB) = Measurement (dBμV) - Limit (dBμV)

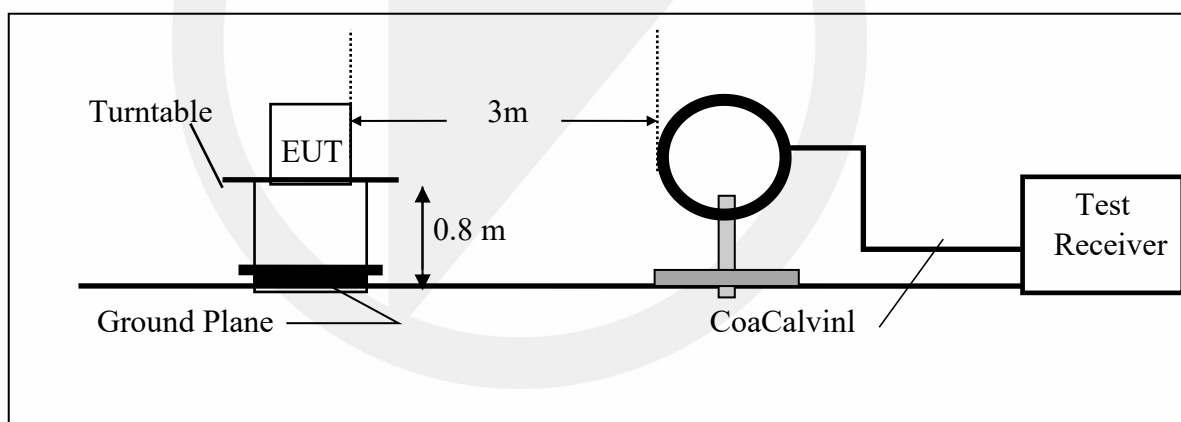
7. RADIATED EMISSION TEST

7.1.Measurement Procedure

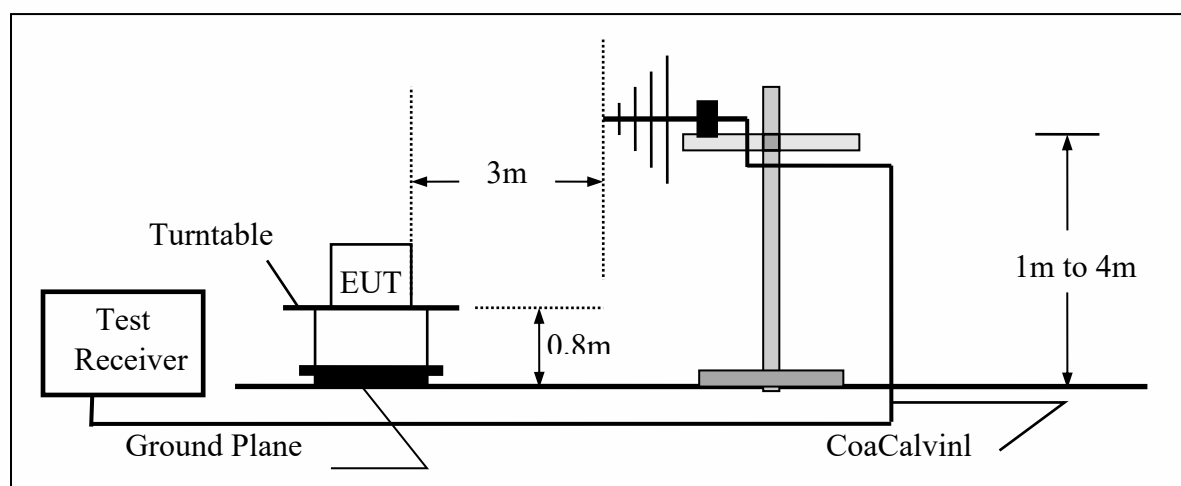
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.
5. Use the following receiver/spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured
RBW=200Hz for 9KHz to 150KHz,
RBW=9kHz for 150KHz to 30MHz,
RBW=120KHz for 30MHz to 1GHz
VBW $\geq 3 \times$ RBW
Sweep = auto
Detector function = QP
Trace = max hold

7.2.Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



7.3.Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

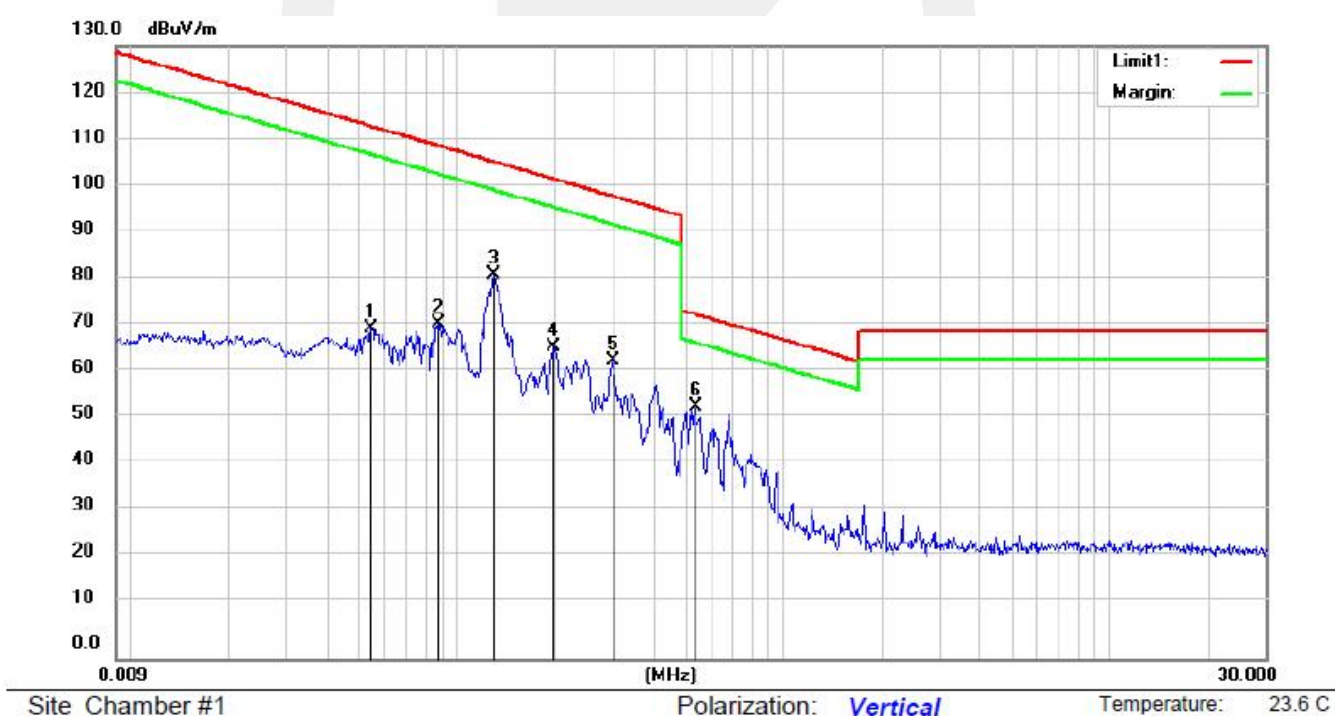
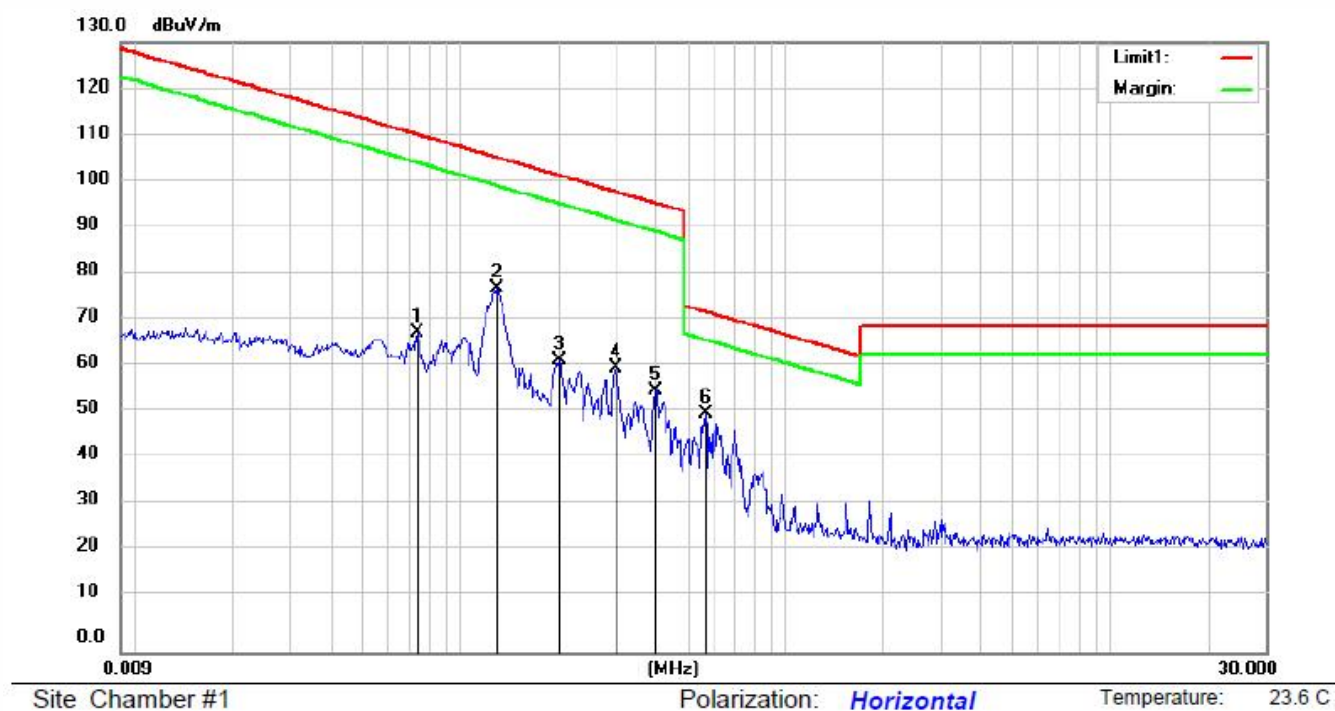
- Remark:
1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

7.4.Measurement Result

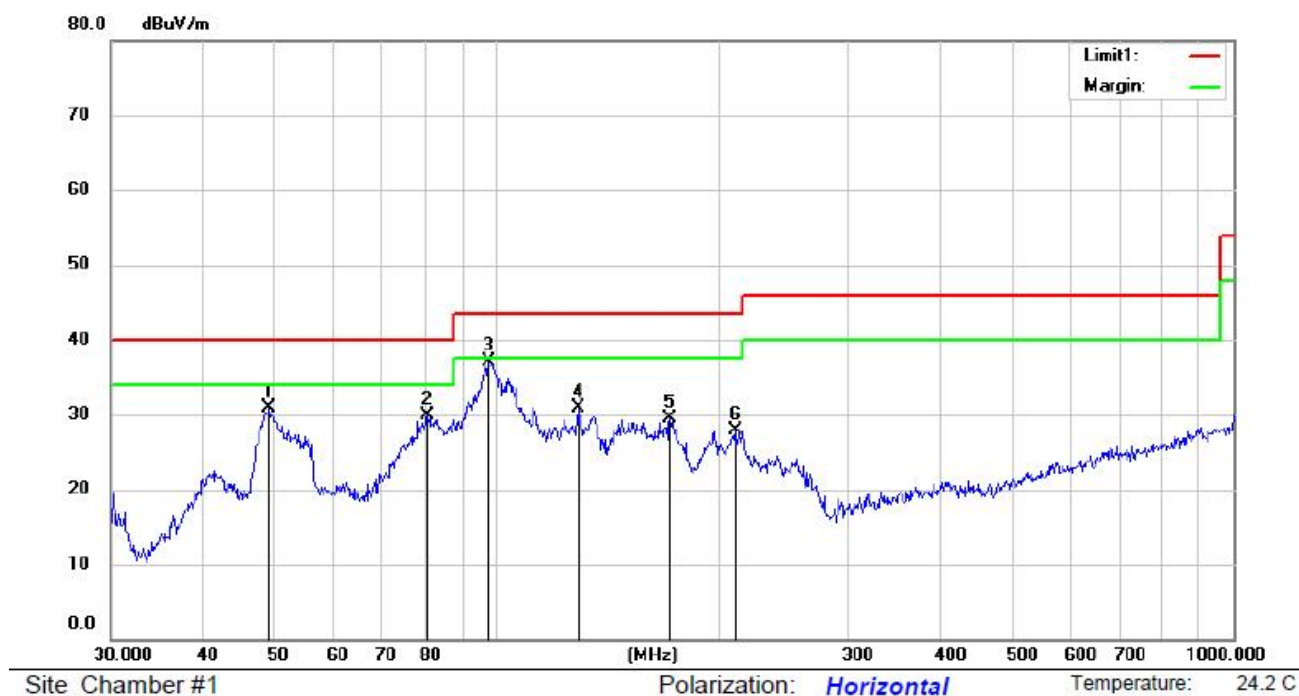
Operation Mode:	Low frequency	Test Date :	2024.07.16
Frequency Range:	9KHz~30MHz	Temperature :	22.6℃
Test Result:	PASS	Humidity :	62 %
Measured Distance:	3m	Test By:	Ccyf

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
0.0734	H	67.94	110.28	-42.34	PK
0.1297	H	77.36	105.34	-27.98	PK
0.2011	H	62.13	101.53	-39.40	PK
0.2993	H	60.63	98.08	-37.45	PK
0.3975	H	55.80	95.62	-39.82	PK
0.5681	H	50.71	72.52	-21.81	PK
0.0543	V	70.18	112.90	-42.72	PK
0.0880	V	70.95	108.71	-37.76	PK
0.1297	V	81.28	105.34	-24.06	PK
0.1980	V	65.98	101.67	-35.69	PK
0.2993	V	63.08	98.08	-35.00	PK
0.5363	V	53.40	73.02	-19.62	PK

Note: (1) All Readings are Peak Value.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) The average measurement was not performed when the peak measured data under the limit of average detection.
(4) EUT lying on the table position is the worst case result in the report.



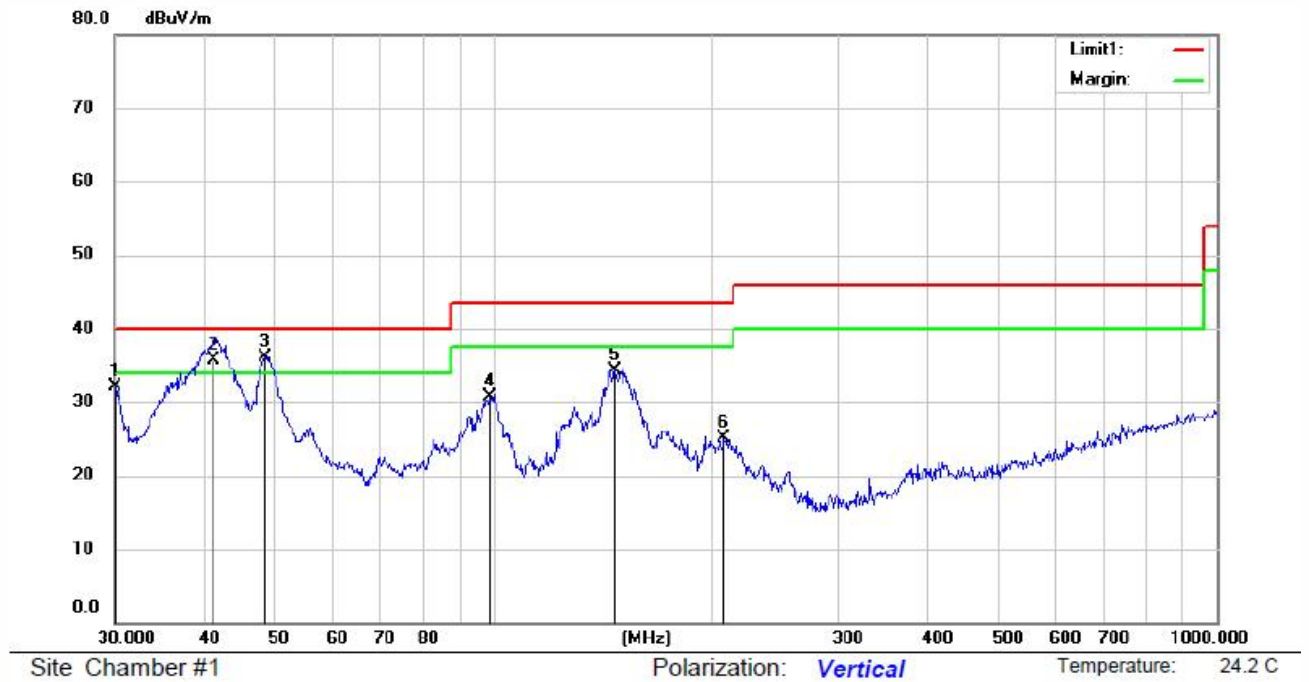
30MHz-1GHz:



No.	Mk.	Freq.	Reading Level	Ant. Factor	Pre Amp Gain	Cable loss	Measure-ment	Limit	Over	HI	Degree		
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Detector	cm	deg.	Comment
1		49.1865	46.55	13.97	30.48	0.77	30.81	40.00	-9.19	QP			
2		80.6440	51.42	7.99	30.6	1.05	29.86	40.00	-10.14	QP			
3	*	97.4560	55.73	11.19	30.85	1.08	37.15	43.50	-6.35	QP			
4		129.4677	51.92	8.47	30.73	1.29	30.95	43.50	-12.55	QP			
5		171.9945	48.92	9.54	30.51	1.55	29.50	43.50	-14.00	QP			
6		210.7860	44.43	11.9	30.3	1.79	27.82	43.50	-15.68	QP			

*:Maximum data x:Over limit !:over margin

Operator: Ccyf



No.	Mk.	Freq. MHz	Reading Level dBuV	Ant. Factor dB/m	Pre Amp Gain dB	Cable loss dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	HI	Degree	Comment
1		30.0000	50.92	11.2	30.57	0.58	32.13	40.00	-7.87	QP		
2	!	41.1320	52.58	13.1	30.52	0.64	35.80	40.00	-4.20	QP		
3	*	48.3316	52.01	13.93	30.49	0.75	36.20	40.00	-3.80	QP		
4		98.8324	49.13	11.41	30.87	1.08	30.75	43.50	-12.75	QP		
5		147.4036	55.00	8.45	30.64	1.42	34.23	43.50	-9.27	QP		
6		208.5800	41.79	11.84	30.31	1.77	25.09	43.50	-18.41	QP		

*:Maximum data x:Over limit !:over margin

Operator: Ccyf

Remark:

1. Measurement (dBμV/m) = Antenna Factor(dB) -Amp Factor(dB) +Cable Loss(dB) + Reading(dBμV/m)
2. Over (dB) = Measurement (dBμV/m) - Limit (dBμV/m)

8. ANTENNA REQUIREMENT

The EUT's antenna, permanent attached antenna, used an Induction coil, The antenna's gain meets the requirement.



*** End of Report ***

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