

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Quanta Computer Inc.
NO.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City
33377, Taiwan (R.O.C.)

Manufacturer: Greatland Electronics Taiwan Ltd
7F., No. 123, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei
City, Taiwan

Product Name: Wireless Charger

Brand Name: Verizon Wireless

Model No.: QTAX59C

Report Number: TERF2402000338ER

FCC ID HFS-QTAX59C

Date of EUT Received: January 02, 2024

Date of Test: February 06, 2024 ~ March 15, 2024

Issue Date: April 02, 2024

CHUN-CHIEH, CHEN

Approved By

Chun Chieh, Chen

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. 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 comply with FCC rule part §15C.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2402000338ER	00	Original	Apr. 02, 2024	Candice Li	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Wireless Charger
Brand Name:	Verizon Wireless
Model No.:	QTAX59C
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	X5988W4035F1C04V
Power Supply:	3.87Vdc from Rechargeable Li-polymer Battery
Test Software (Name/Version)	Default (put watch to transmit)

1.2 RF Specification

Technology:	Wireless Power Transfer
Operating Frequency	153.29 kHz
FCC Transmit Power	-9.41dBμV/m @300m, 70.59dBμV/m @3m
Number of Channels	1
Antenna Type	Loop

Note: Antenna information is provided by the applicant.

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1.3 Test Methodology

FCC Part 15, Subpart C

ANSI C63.10:2013

1.4 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027
		SAC 2	
		SAC 3	
		Conduction 1	
		Conducted 1	
		Conducted 2	
		Conducted 3	
		Conducted 4	
		Conducted 5	
		Conducted 6	
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028
		SAC C	
		SAC D	
		SAC G	
		Conducted A	
		Conducted B	
		Conducted C	
		Conducted D	
		Conducted E	
		Conducted F	
Conducted G			
Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.			

1.5 Special Accessories

There is no special accessory used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

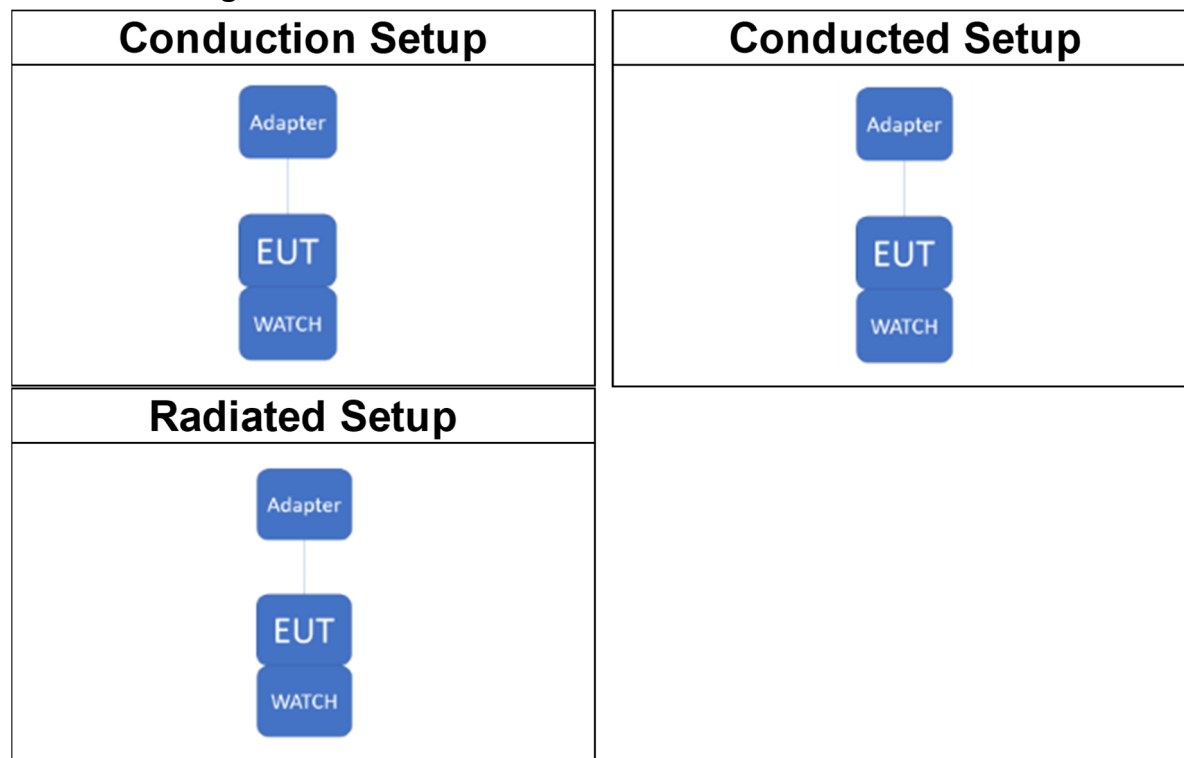
2.3.1 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for radiated emissions, measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Test Configuration



2.5 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	Apple	A1385	N/A	N/A	N/A
Watch	Verizon	QTAX59	N/A	N/A	N/A
USB male to Type-C female connector	JETTUNG	Phone charger adapter	N/A	N/A	N/A
Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	Apple	A1385	N/A	N/A	N/A
Watch	Verizon	QTAX59	N/A	N/A	N/A
H-Loop Near Field Antenna	EMCI	LF-R 400	02-1637	N/A	N/A
AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	Apple	A1385	N/A	N/A	N/A
Watch	Verizon	QTAX59	N/A	N/A	N/A
USB male to Type-C female connector	JETTUNG	Phone charger adapter	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.209	Radiated Emission Limits, general requirement	Compliant
§15.215 (c)	Emission Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Bands	Compliant

4 DESCRIPTION OF TEST MODES

The EUT stay in continuous transmitting mode. The frequency is the default channel to test, where it is the only manipulative channel as this application supports.

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty		
AC Power Line Conducted Emission	+/-	1.54	dB
Frequency Stability	+/-	1.48	Hz
Emission Bandwidth	+/-	1.38	Hz
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 dB	140GHz-220GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted AC Power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
LISN	SCHWARZBECK	NSLK 8127	1040	09/06/2023	09/05/2024
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2023	06/21/2024
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2023	06/21/2024
EMI Test Receiver	R&S	ESCI 7	100759	08/21/2023	08/20/2024

6.2 Emission Bandwidth

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/07/2023	06/06/2024
DC Block	Mini-Circuits	BLK-18-S+	10	12/12/2023	12/11/2024

6.3 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Loop Antenna	COM-POWER	AL-130R	10160104	12/04/2023	12/03/2024
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/18/2023	12/17/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/17/2023	10/16/2024
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
EMI Test Receiver	R&S	ESCI 7	100759	08/21/2023	08/20/2024
Site Cal	SGS	SAC 1	N/A	08/31/2023	08/30/2024
Pre-Amplifier	HP	8447D	2944A09469	08/31/2023	08/30/2024
Coaxial Cable	EMCI	EMC104-SM-SM-8000+EMC106-SM-SM-7600	RX Cable 9K-18G(160125+150817)	09/12/2023	09/11/2024

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7 CONDUCTED EMISSIONS TEST

7.1 Limitation

According to section 15.207(a) Conducted Emission Limits as following.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

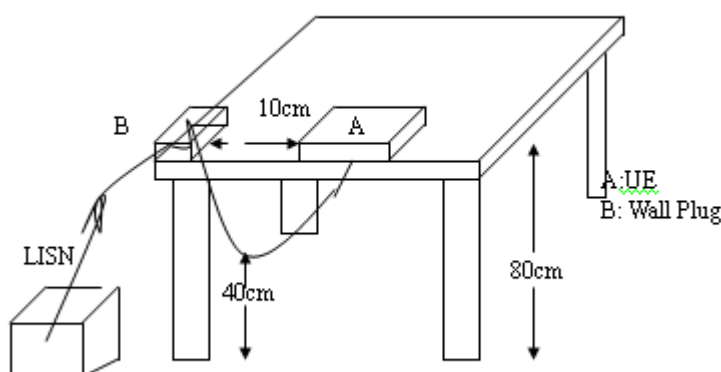
Note

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

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120-240Vac/60Hz power source.

7.3 Test SET-UP (Block Diagram of Configuration)



7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

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7.5 Measurement Result:

Note: The test data reveals the worst-case results that closest to the limit.

Report Number :TERF2402000338ER

Test Site :Conduction 1

Operation Mode :WPT

Test Date :2024-02-29

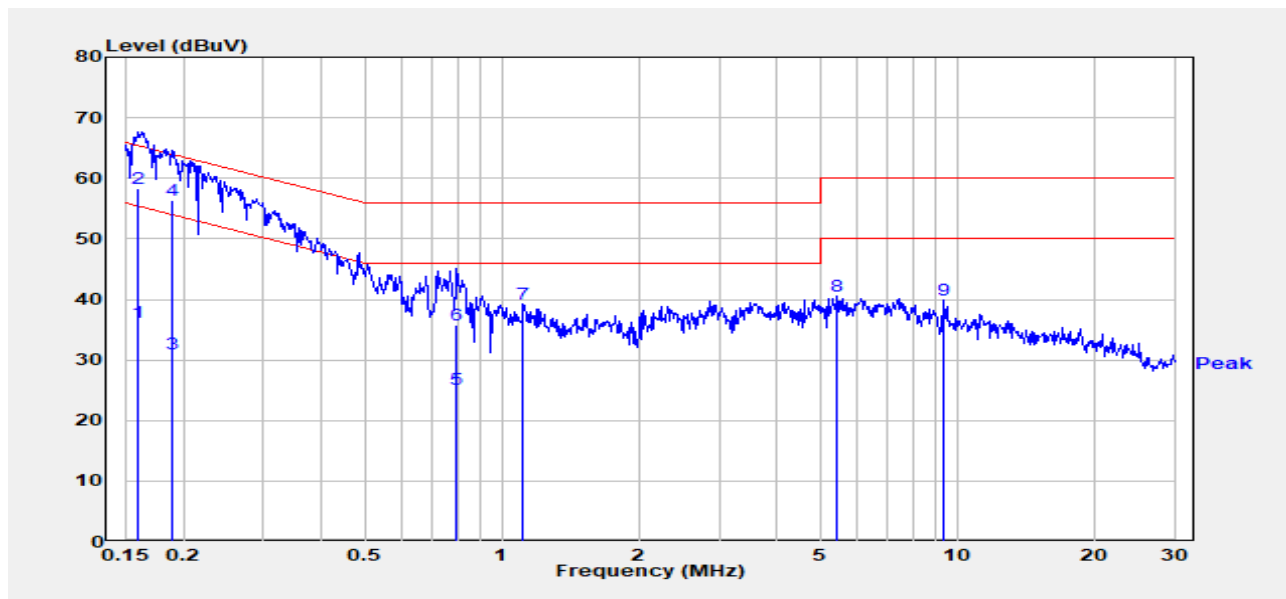
Power :120V/60Hz

Temp./Humi. :20.7°C/66%

Probe :L

Engineer :Cooper Hsu

Note: :0%



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.159	Average	25.96	10.25	36.21	55.52	-19.31
0.159	QP	48.14	10.25	58.39	65.52	-7.13
0.188	Average	20.76	10.25	31.01	54.11	-23.10
0.188	QP	46.18	10.25	56.43	64.11	-7.68
0.796	Average	14.73	10.32	25.05	46.00	-20.95
0.796	QP	25.52	10.32	35.84	56.00	-20.16
1.111	Peak	28.80	10.47	39.27	56.00	-16.73
5.447	Peak	30.05	10.55	40.60	60.00	-19.40
9.352	Peak	29.23	10.63	39.86	60.00	-20.14

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Report Number :TERF2402000338ER

Test Site :Conduction 1

Operation Mode :WPT

Test Date :2024-02-29

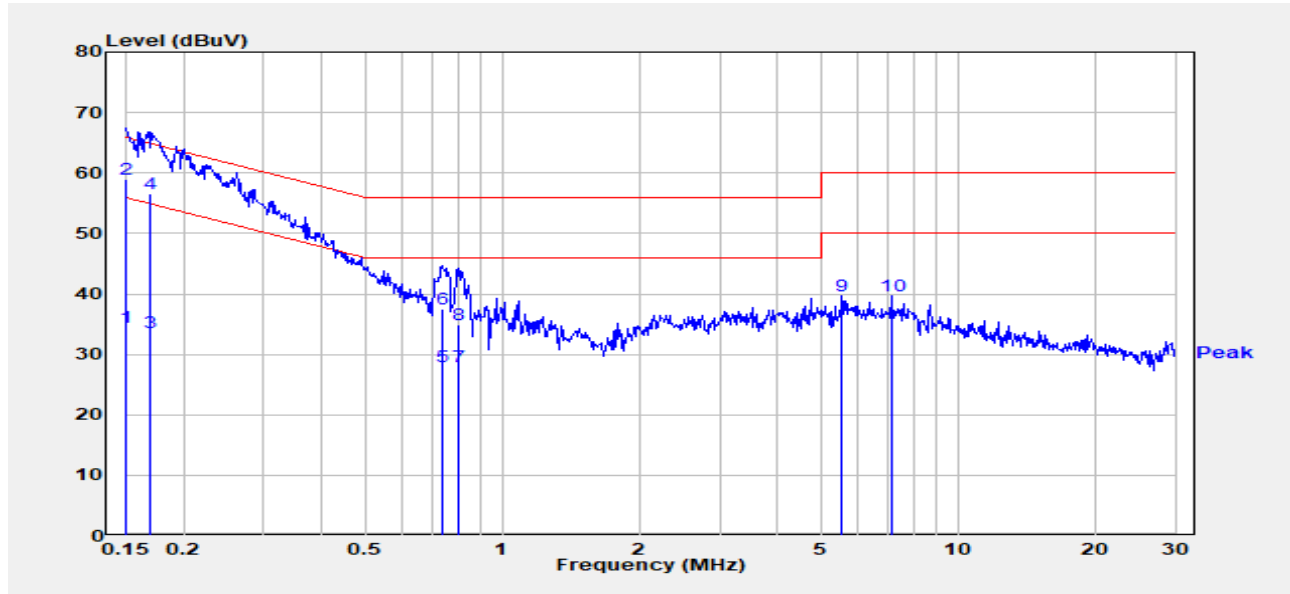
Power :120V/60Hz

Temp./Humi. :20.7°C/66%

Probe :N

Engineer :Cooper Hsu

Note: :0%



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.150	Average	24.31	10.25	34.56	56.00	-21.44
0.150	QP	48.67	10.25	58.92	66.00	-7.08
0.169	Average	23.38	10.25	33.63	55.03	-21.40
0.169	QP	46.43	10.25	56.68	65.03	-8.35
0.739	Average	17.69	10.31	28.00	46.00	-18.00
0.739	QP	27.18	10.31	37.49	56.00	-18.51
0.800	Average	17.57	10.33	27.90	46.00	-18.10
0.800	QP	24.62	10.33	34.95	56.00	-21.05
5.564	Peak	29.14	10.57	39.71	60.00	-20.29
7.137	Peak	28.98	10.59	39.57	60.00	-20.43

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Report Number :TERF2402000338ER

Operation Mode :WPT

Power :120V/60Hz

Probe :L

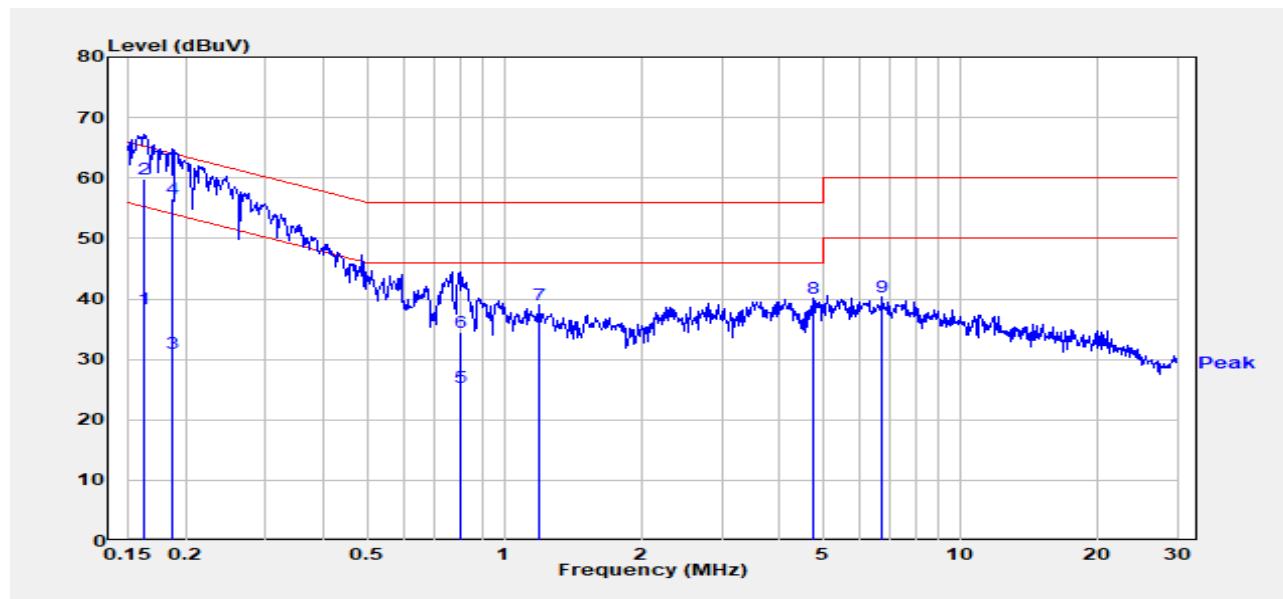
Note: :50%

Test Site :Conduction 1

Test Date :2024-02-29

Temp./Humi. :20.7°C/66%

Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.162	Average	28.21	10.25	38.46	55.38	-16.92
0.162	QP	49.65	10.25	59.90	65.38	-5.48
0.187	Average	20.68	10.25	30.93	54.15	-23.22
0.187	QP	46.41	10.25	56.66	64.15	-7.49
0.804	Average	14.94	10.33	25.27	46.00	-20.73
0.804	QP	24.15	10.33	34.48	56.00	-21.52
1.191	Peak	28.52	10.54	39.06	56.00	-16.94
4.772	Peak	29.46	10.57	40.03	56.00	-15.97
6.769	Peak	29.81	10.58	40.39	60.00	-19.61

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Report Number :TERF2402000338ER

Operation Mode :WPT

Power :120V/60Hz

Probe :N

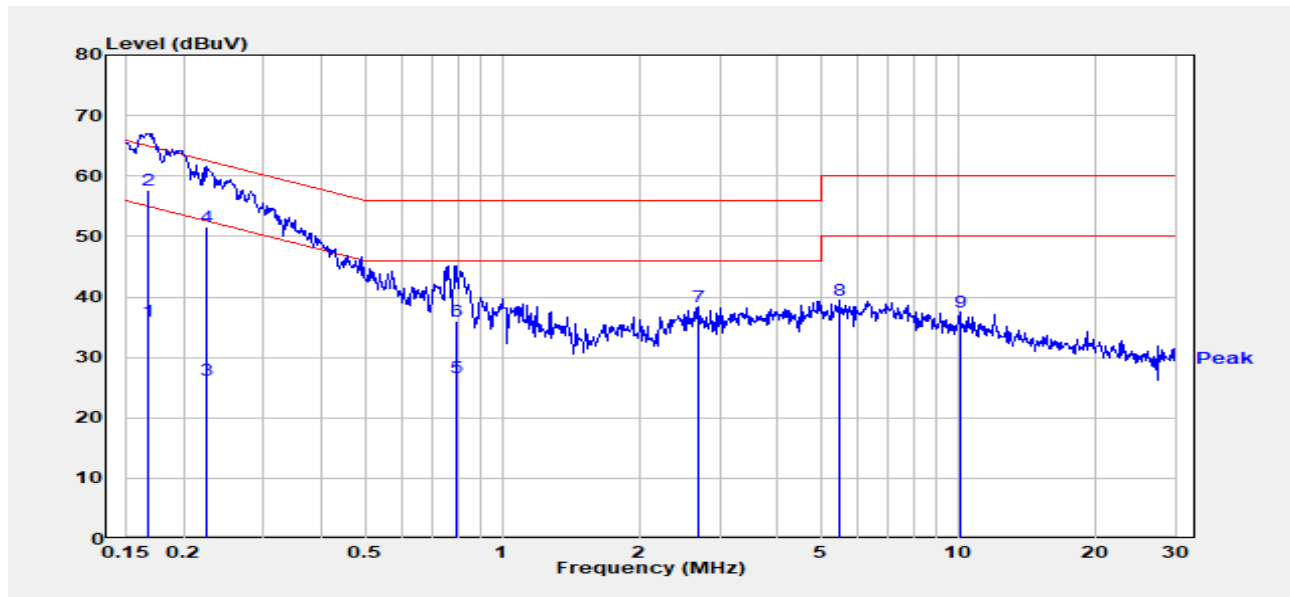
Note: :50%

Test Site :Conduction 1

Test Date :2024-02-29

Temp./Humi. :20.7°C/66%

Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.167	Average	25.75	10.25	36.00	55.12	-19.12
0.167	QP	47.32	10.25	57.57	65.12	-7.55
0.226	Average	16.09	10.25	26.34	52.61	-26.27
0.226	QP	41.41	10.25	51.66	62.61	-10.95
0.792	Average	16.43	10.32	26.75	46.00	-19.25
0.792	QP	25.71	10.32	36.03	56.00	-19.97
2.692	Peak	27.52	10.91	38.42	56.00	-17.58
5.505	Peak	28.85	10.56	39.41	60.00	-20.59
10.125	Peak	26.93	10.63	37.56	60.00	-22.44

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Report Number :TERF2402000338ER

Operation Mode :WPT

Power :120V/60Hz

Probe :L

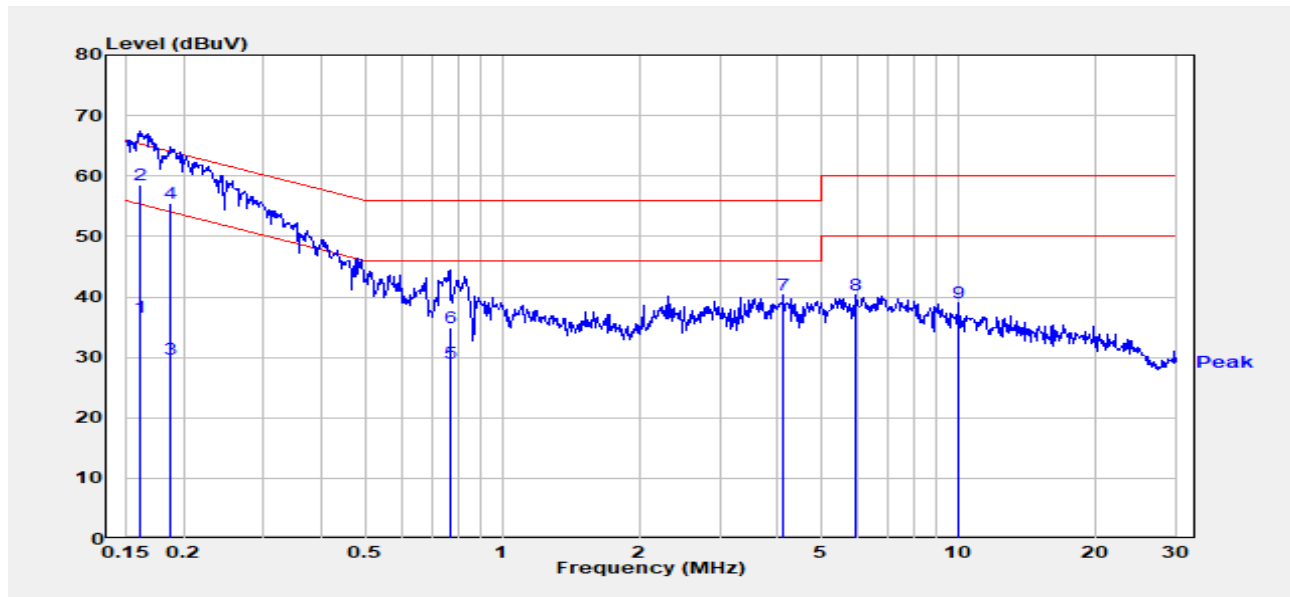
Note: :100%

Test Site :Conduction 1

Test Date :2024-02-29

Temp./Humi. :20.7°C/66%

Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.161	Average	26.43	10.25	36.68	55.43	-18.75
0.161	QP	48.39	10.25	58.64	65.43	-6.79
0.187	Average	19.39	10.25	29.64	54.15	-24.51
0.187	QP	45.21	10.25	55.46	64.15	-8.69
0.767	Average	18.69	10.32	29.01	46.00	-16.99
0.767	QP	24.52	10.32	34.84	56.00	-21.16
4.136	Peak	29.58	10.64	40.22	56.00	-15.78
5.961	Peak	29.67	10.57	40.23	60.00	-19.77
10.072	Peak	28.36	10.64	39.00	60.00	-21.00

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Report Number :TERF2402000338ER

Operation Mode :WPT

Power :120V/60Hz

Probe :N

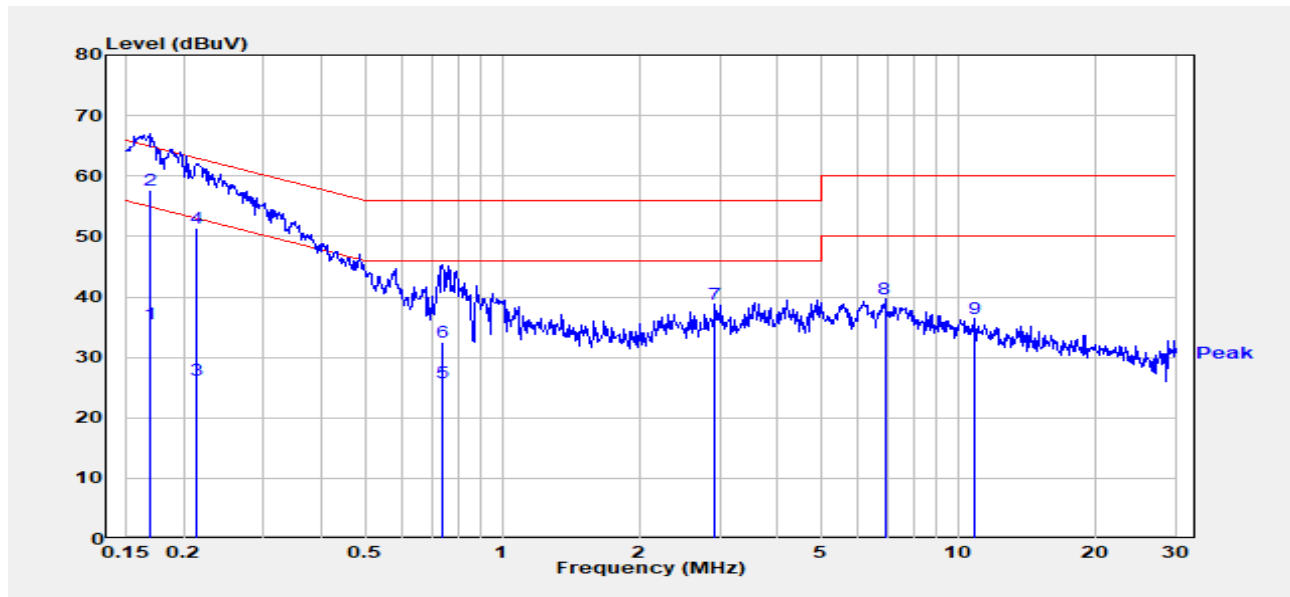
Note: :100%

Test Site :Conduction 1

Test Date :2024-02-29

Temp./Humi. :20.7°C/66%

Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.169	Average	25.34	10.25	35.59	55.03	-19.44
0.169	QP	47.49	10.25	57.74	65.03	-7.29
0.213	Average	16.07	10.25	26.32	53.10	-26.78
0.213	QP	41.03	10.25	51.28	63.10	-11.82
0.739	Average	15.47	10.31	25.78	46.00	-20.22
0.739	QP	22.29	10.31	32.60	56.00	-23.40
2.931	Peak	28.05	10.86	38.91	56.00	-17.09
6.914	Peak	29.08	10.59	39.67	60.00	-20.33
10.847	Peak	25.85	10.65	36.50	60.00	-23.50

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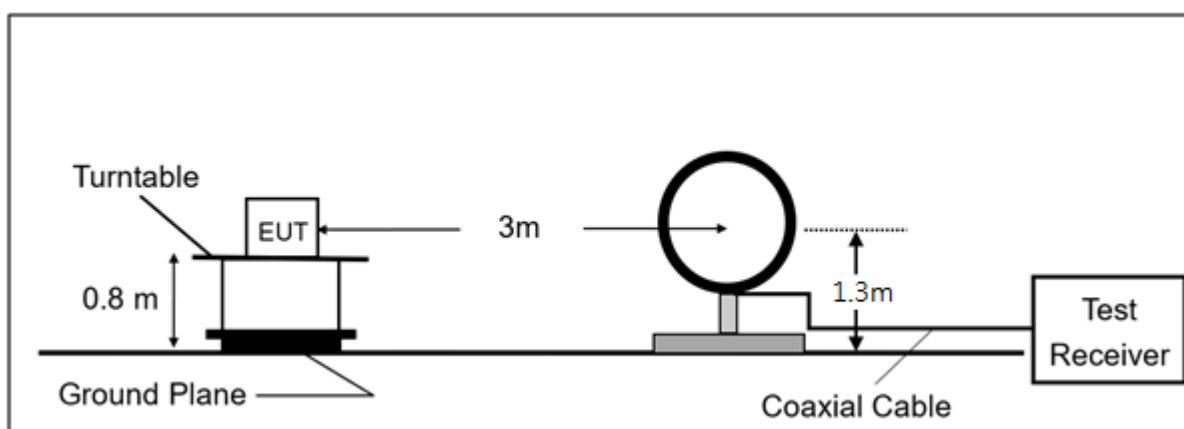
8 RADIATED EMISSION TEST

8.1 Measurement Procedure

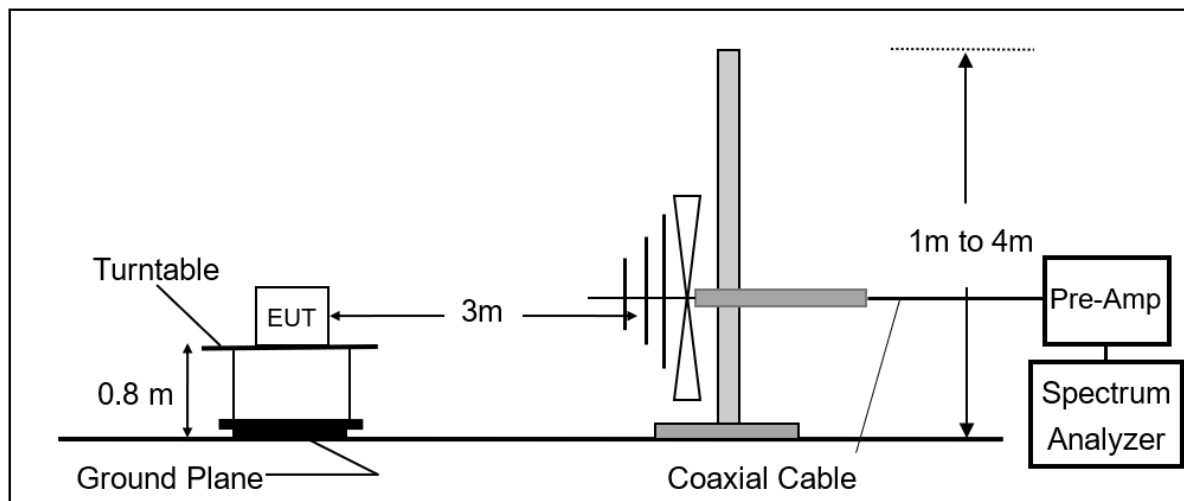
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

8.2 Test Setup

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



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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8.3 Applicable Standard

The field strength of any emissions appearing outside of operation frequency shall not exceed the general radiated emission limits in section 15.209 as below.

Frequency (MHz)	Field strength (μV/m)	Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. Emission level in dBμV/m = $20 \log (\mu\text{V/m})$
2. Distance extrapolation factor = $40 \log (\text{required distance} / \text{test distance})$ (dB)
3. $20 * \log(30 \mu\text{V/m}) + 40 \text{dB} = 69.54 \text{ dBuV/m}$
4. The lower limit shall apply at the transition frequencies.
5. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.
6. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205.
7. The general radiated emission limits in §15.209 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.
8. Actual FS(dBμV/m) = Spectrum. Reading level(dBμV) + Factor(dB)
Factor(dB) = Antenna Factor(dB) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note:

1. The more stringent limit applies at the transition frequency.
2. Measurements are demonstrated in SAC with distance at 3m.
3. Actual FS(dBμV/m) = Spectrum. Reading level(dBμV) + Factor(dB)
Factor(dB) = Antenna Factor(dB) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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8.4 Test Result

8.4.1 Field Strength of Fundamental Emission

Report Number :TERF2402000338ER

Operation Mode :WPT

Test Frequency :153.29 kHz

Test Mode :Main

EUT Pol :H Plane

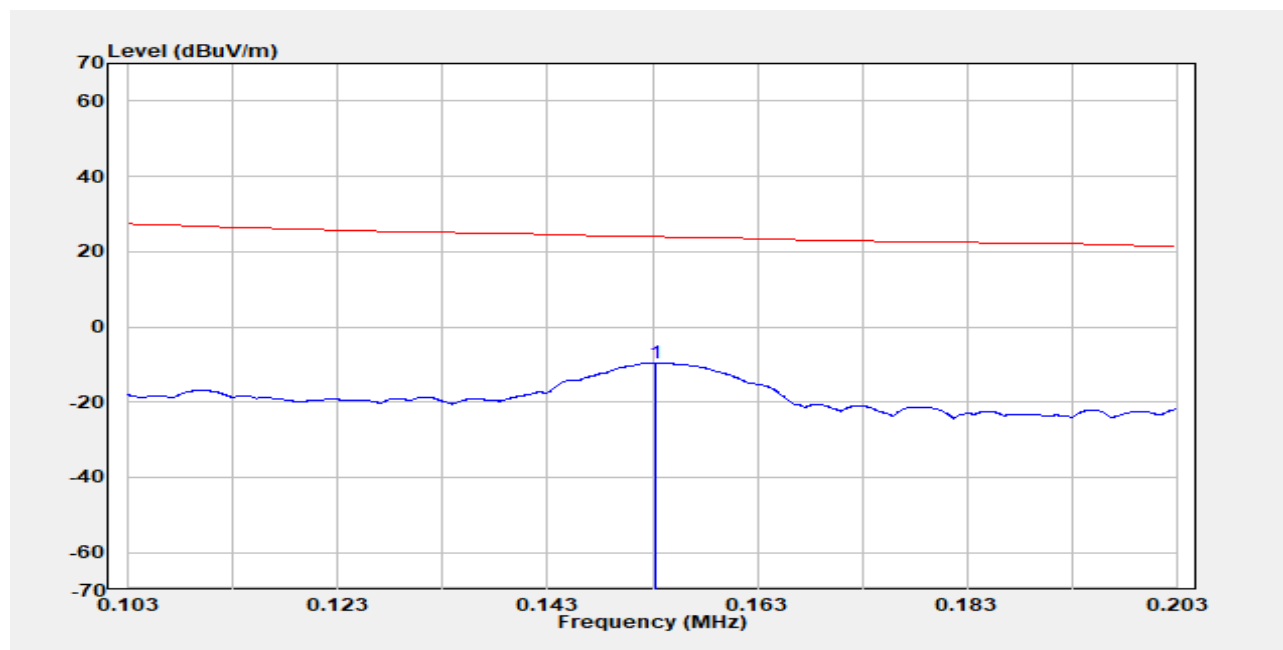
Test Site :SAC 1

Test Date :2024-02-27

Temp./Humi. :23.3°C/61%

Antenna Pol. :Vertical

Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit dB μ V/m	Margin dB
0.15	Peak	57.27	-66.86	-9.59	23.90	-33.49

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

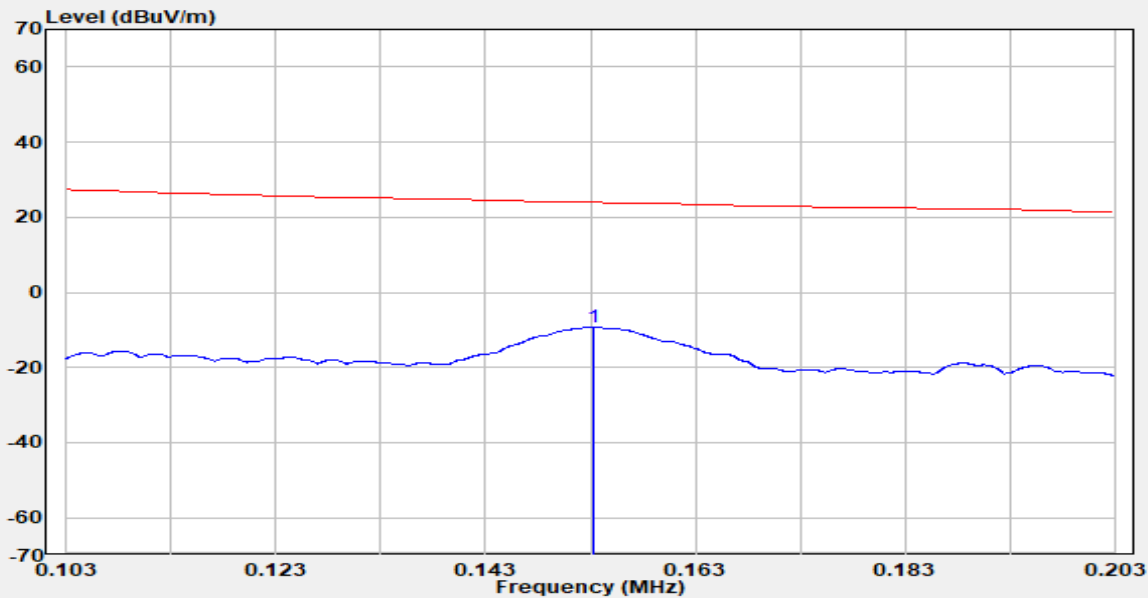
Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Report Number :TERF2402000338ER
 Operation Mode :WPT
 Test Frequency :153.29 kHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2024-02-27
 Temp./Humi. :23.3°C/61%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
0.15	Peak	57.45	-66.86	-9.41	23.90	-33.31

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m,within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m,within the band 490 kHz - 30 MHz.

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

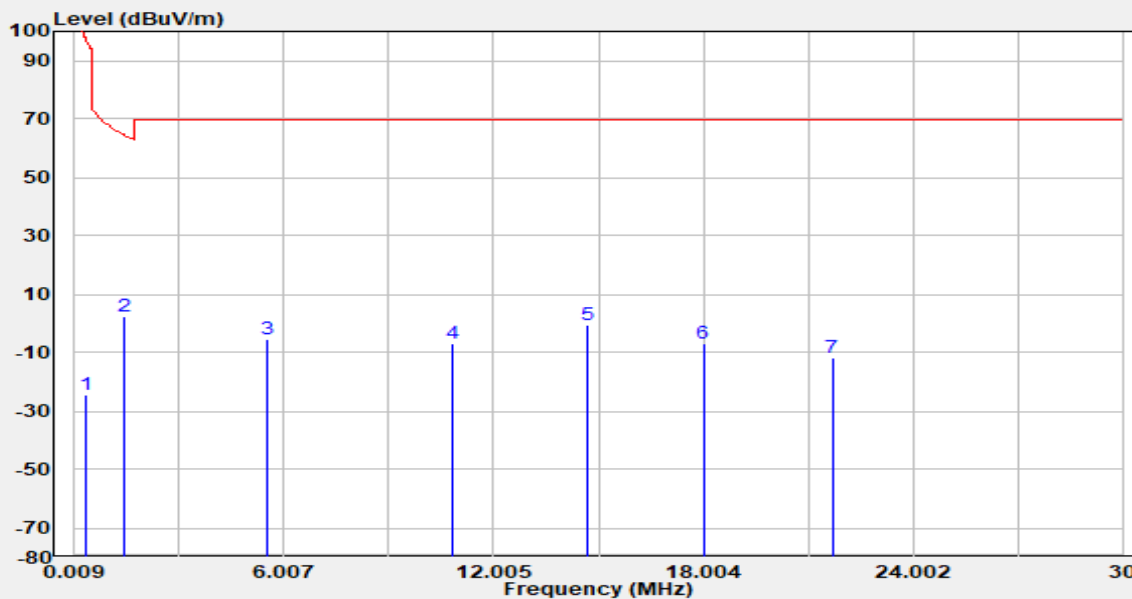
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Member of SGS Group

8.4.2 Below 30 MHz test result

Report Number :TERF2402000338ER
 Operation Mode :WPT
 Test Frequency :153.29 kHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2024-02-27
 Temp./Humi. :23.3°C/61%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
0.31	Peak	42.20	-66.59	-24.38	97.88	-122.26
1.45	Peak	28.48	-26.28	2.20	64.39	-62.18
5.50	Peak	19.43	-24.92	-5.49	69.54	-75.03
10.84	Peak	17.75	-24.40	-6.65	69.54	-76.19
14.70	Peak	24.31	-25.02	-0.71	69.54	-70.25
18.00	Peak	17.61	-24.29	-6.67	69.54	-76.21
21.69	Peak	14.18	-25.66	-11.49	69.54	-81.03

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

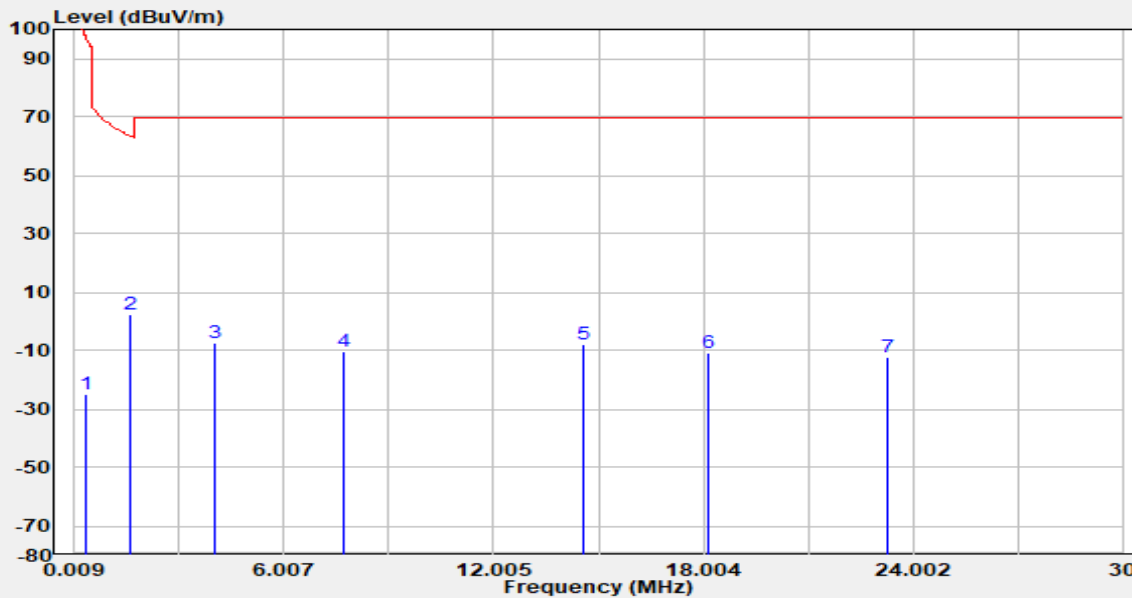
Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Report Number :TERF2402000338ER
Operation Mode :WPT
Test Frequency :153.29 kHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2024-02-27
Temp./Humi. :23.3°C/61%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
0.31	Peak	41.58	-66.59	-25.00	97.88	-122.88
1.60	Peak	28.48	-26.25	2.24	63.53	-61.29
4.03	Peak	18.20	-25.44	-7.24	69.54	-76.78
7.72	Peak	14.88	-25.01	-10.13	69.54	-79.67
14.58	Peak	17.28	-25.02	-7.74	69.54	-77.28
18.12	Peak	13.58	-24.30	-10.71	69.54	-80.25
23.25	Peak	14.11	-26.30	-12.19	69.54	-81.73

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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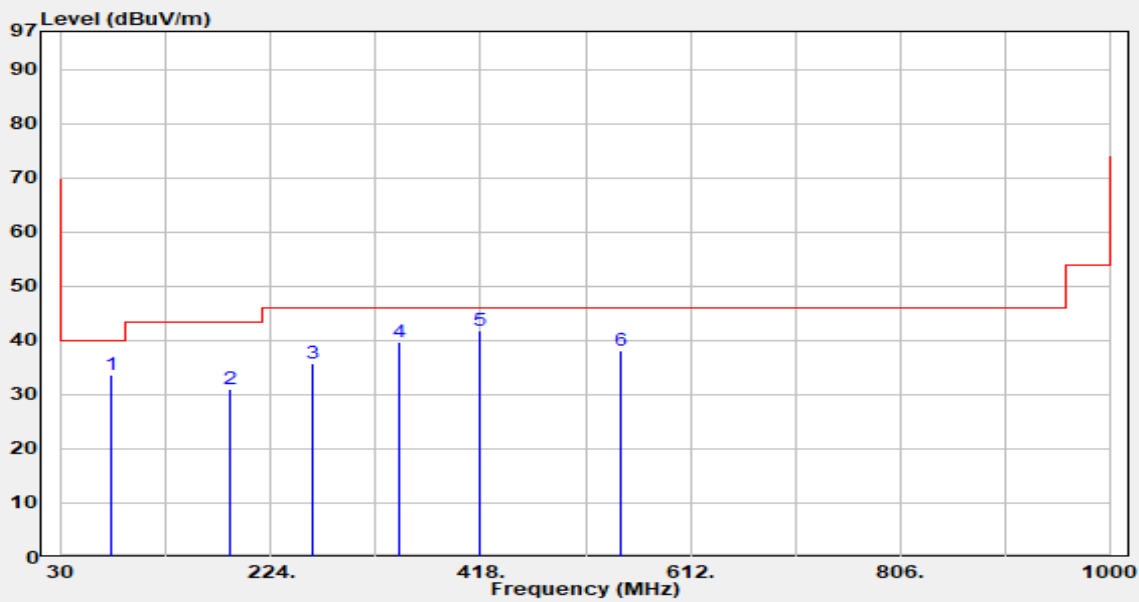
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8.4.3 FCC Above 30MHz test result

Report Number :TERF2402000338ER
Operation Mode :WPT
Test Frequency :153.29 kHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2024-02-27
Temp./Humi. :23.3°C/61%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



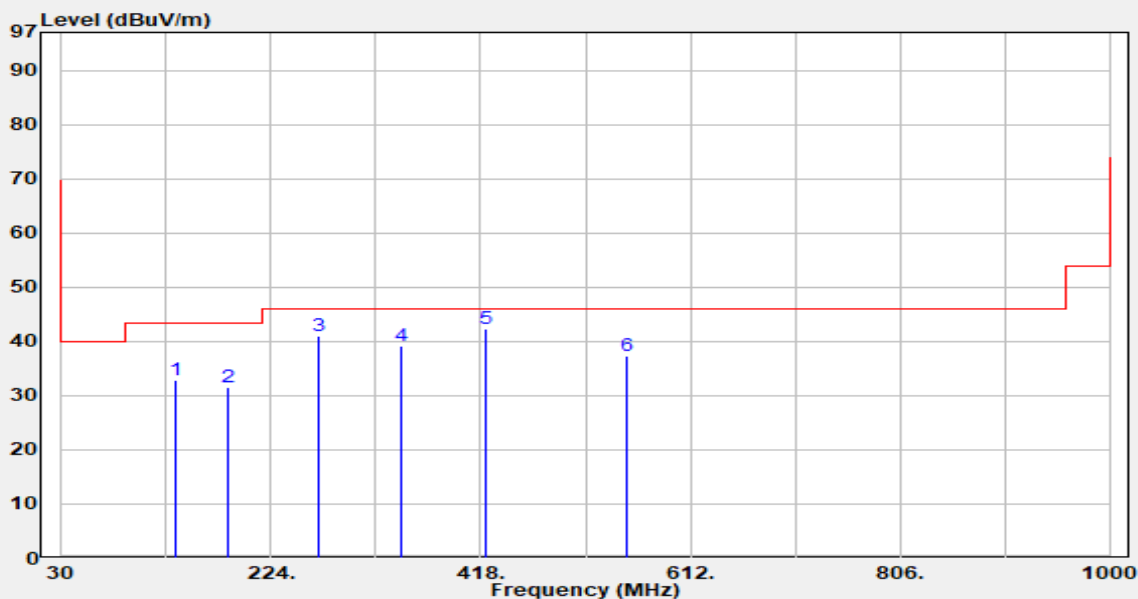
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
76.56	Peak	50.85	-17.21	33.64	40.00	-6.36
185.20	Peak	44.93	-14.01	30.92	43.50	-12.58
262.80	Peak	44.36	-8.53	35.83	46.00	-10.17
342.34	Peak	47.76	-8.12	39.64	46.00	-6.36
417.03	QP	47.80	-5.88	41.92	46.00	-4.08
547.98	Peak	42.09	-3.96	38.13	46.00	-7.87

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Report Number :TERF2402000338ER
Operation Mode :WPT
Test Frequency :153.29 kHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2024-02-27
Temp./Humi. :23.3°C/61%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
134.76	Peak	44.78	-12.01	32.78	43.50	-10.72
184.23	Peak	45.51	-13.99	31.52	43.50	-11.98
268.62	QP	50.16	-9.25	40.91	46.00	-5.09
345.25	QP	47.10	-8.00	39.10	46.00	-6.90
421.88	QP	48.20	-5.83	42.37	46.00	-3.63
553.80	Peak	41.28	-3.85	37.43	46.00	-8.57

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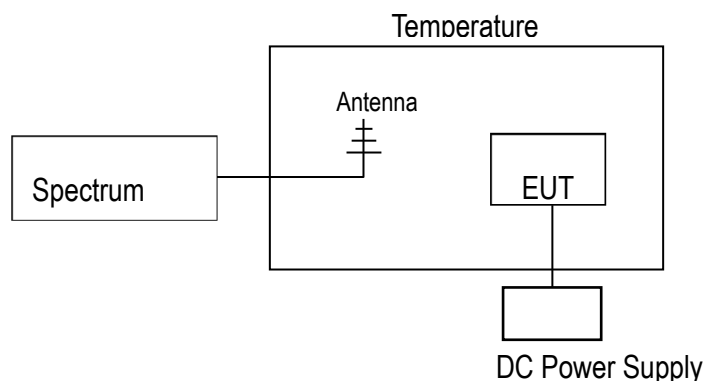
9 20 dB OCCUPIED BANDWIDTH MEASUREMENT

9.1 Standard Applicable:

§2.1049 & §15.215 (c)

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

9.2 Test SET-UP (Block Diagram of Configuration)



9.3 Measurement Procedure

20dB bandwidth

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
2. 20dB Bandwidth the resolution bandwidth of 200 Hz and the video bandwidth of 1 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.

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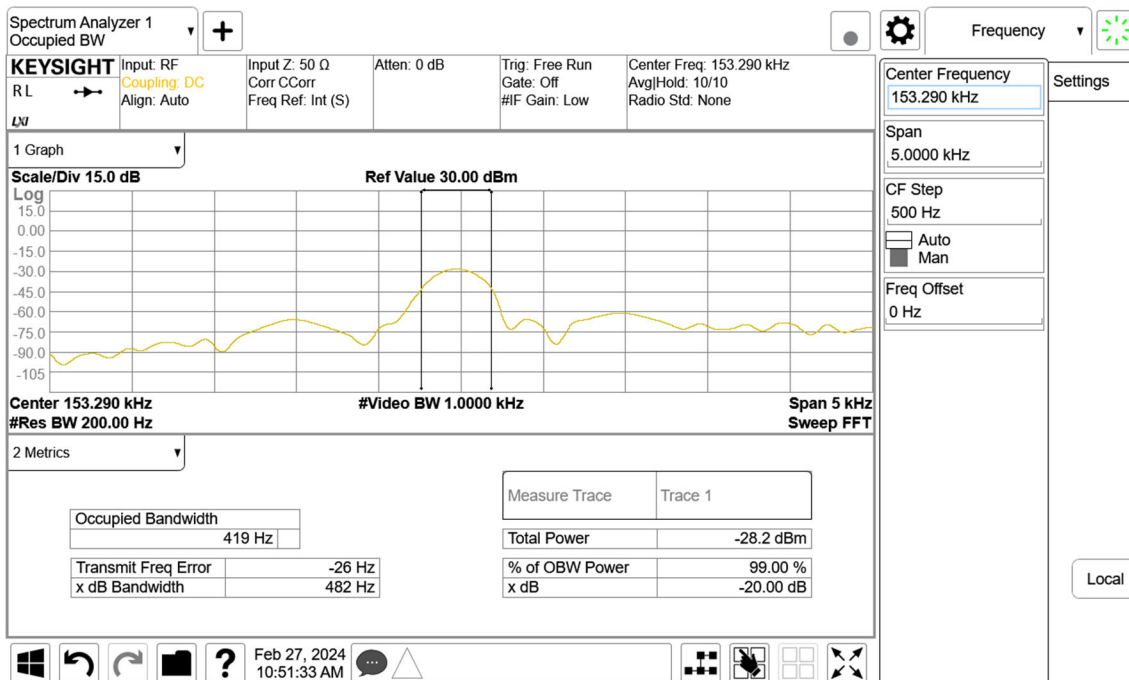
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9.4 Measurement Result

-20dB Bandwidth

20dB Bandwidth
482 Hz



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10 ANTENNA REQUIREMENT

10.1 Standard Applicable:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

10.2 Antenna Connected Construction:

The antenna is fixed to the device that complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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