

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



FCC Applicant: NSE Products, Inc.
75 W. Center St. Provo UT 84601
FCC Manufacturer: NSE Products, Inc.
75 W. Center St. Provo UT 84601
Product Name: RenuSpa iO
Brand Name: Nu Skin
Model No.: BS2RCA, BS2RCC
Model Difference: BS2RCA with USB-A charger
BS2RCC with USB-C charger
Report Number: TERF2305001252ER
FCC ID 2AZ3A-BS2RCCA
Date of EUT Received: May 17, 2023
Date of Test: May 17, 2023 ~ July 19, 2023
Issue Date: September 18, 2023

Approved By

Blue Yang

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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2305001252ER	00	Original	August 1, 2023	Yuri Tsai	
TERF2305001252ER	01	Revise applicant & manufacturer information	August 25, 2023	Yuri Tsai	*
TERF2305001252ER	02	Revise section1.2	September 11, 2023	Yuri Tsai	*
TERF2305001252ER	03	Revise section8.2 test setup	September 18, 2023	Yuri Tsai	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	RenuSpa iO
Brand Name:	Nu Skin
Model No.:	BS2RCA, BS2RCC
Model Difference:	BS2RCA with USB-A charger BS2RCC with USB-C charger
Hardware Version:	EVT2
Firmware Version:	V03.00.P
EUT Series No.:	14E20001046, 14020007941
Power Supply:	5V
Test Software (Name/Version)	Default

1.2 RF Specification

Technology:	Wireless Power Transfer
Operating Frequency	116kHz
FCC Transmit Power	$\leq -8.52\text{dBuV/m}$
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.			

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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.

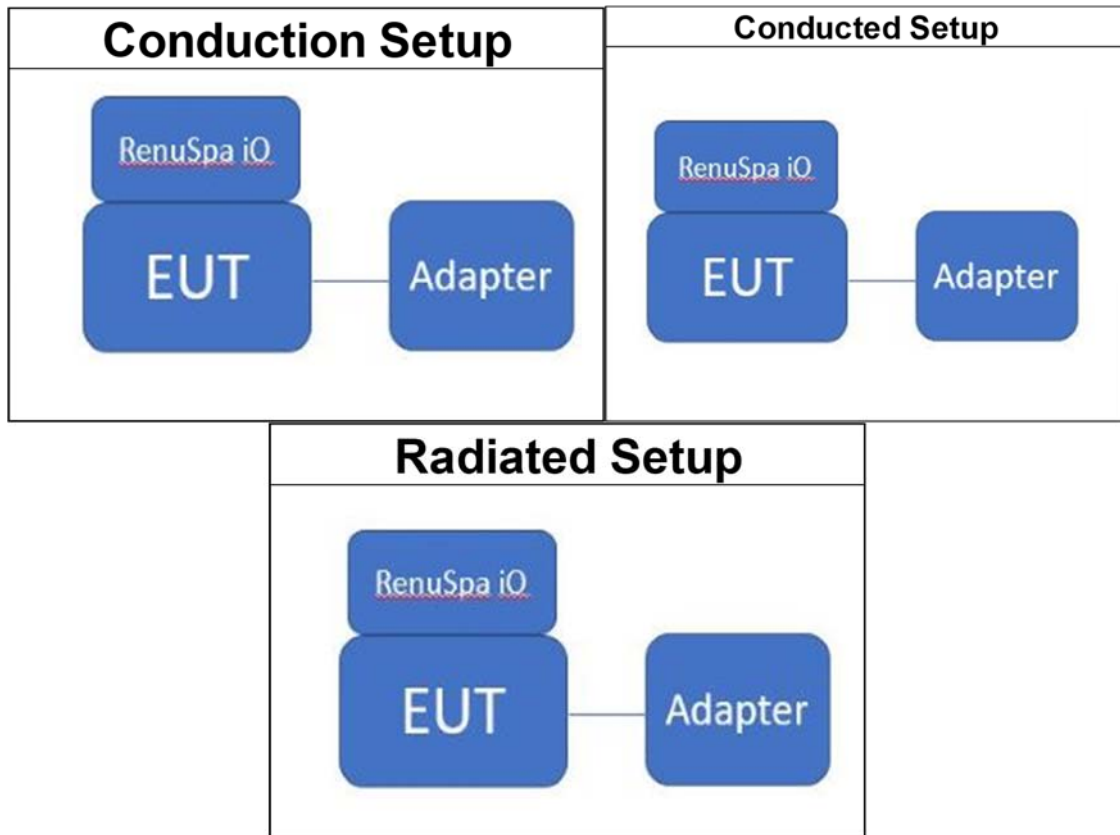
2.3.2 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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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	Lapo	WT-02CA	N/A	N/A	N/A
RenuSpa iO	Nu Skin	BS2RM	N/A	N/A	N/A
Adapter	SAMSUNG	EP-TA200	N/A	N/A	N/A
Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
H-Loop Near Field Antenna	EMCI	LF-R 400	02-1637	N/A	N/A
Adapter	Lapo	WT-02CA	N/A	N/A	N/A
RenuSpa iO	Nu Skin	BS2RM	N/A	N/A	N/A
Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	Lapo	WT-02CA	N/A	N/A	N/A
RenuSpa iO	Nu Skin	BS2RM	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

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	+/- 2.32 dB
Frequency Stability	+/- 1.53 Hz
Emission Bandwidth	+/- 1.53 Hz
Temperature	+/- 0.7 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.8 dB	9kHz~30MHz
	+/-	4.82 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.8 dB	9kHz~30MHz
	+/-	4.54 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 dB	18GHz - 40GHz

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.
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2022	06/21/2023
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2023	06/21/2024
LISN	SCHWARZBECK	NSLK 8127	01040	08/23/2022	08/22/2023
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2022	06/21/2023
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2023	06/21/2024
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

6.2 Emission Bandwidth

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/14/2022	07/13/2023
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023

6.3 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/15/2022	08/14/2023
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/28/2022	10/27/2023
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023
Pre-Amplifier	HP	8447D	2944A07676	12/13/2022	12/12/2023
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	MY4251/4PEA	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM-500	221104	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM-8000	221109	12/13/2022	12/12/2023
Site Cal	SGS	SAC 3	N/A	01/01/2023	12/31/2023
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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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

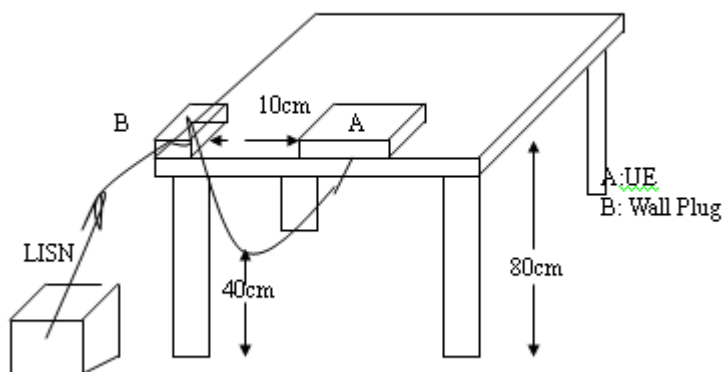
Note

- 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 120Vac/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:

Type C

Report Number :TERF2305001252ER

Operation Mode :WPT

Power :120V/60Hz

Probe :L

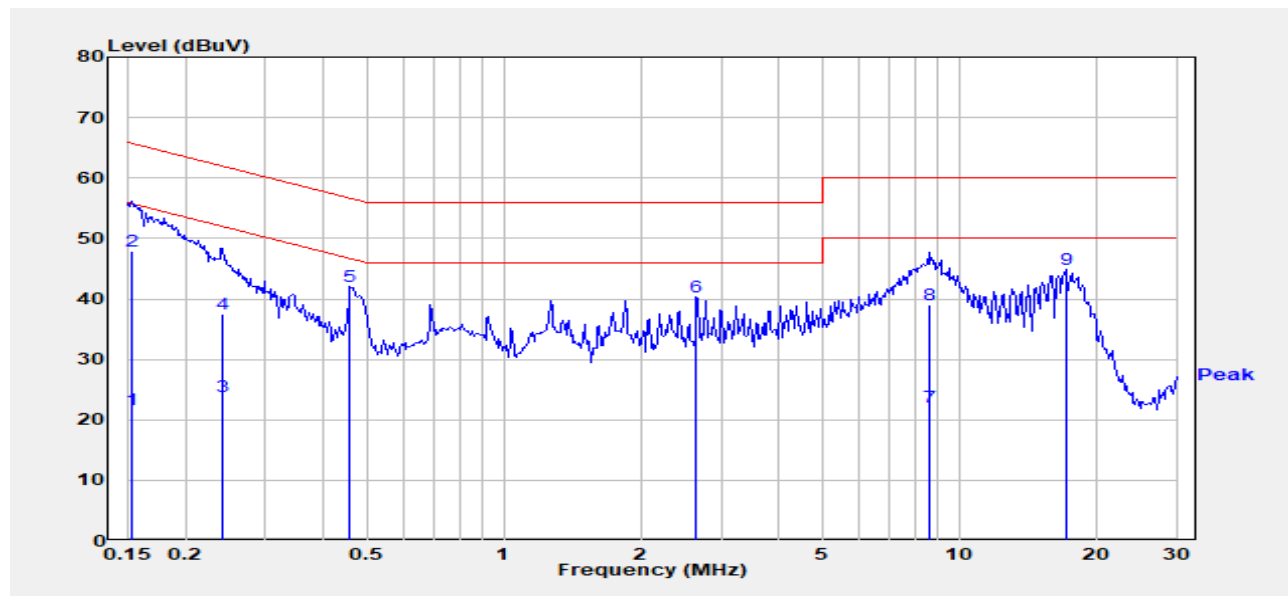
Note: :0%

Test Site :Conduction 1

Test Date :2023-06-20

Temp./Humi. :26.3°C/62%

Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.152	Average	11.37	10.25	21.62	55.87	-34.25
0.152	QP	37.66	10.25	47.91	65.87	-17.96
0.241	Average	13.55	10.25	23.80	52.05	-28.25
0.241	QP	27.34	10.25	37.59	62.05	-24.46
0.460	Peak	31.74	10.25	41.99	56.69	-14.70
2.650	Peak	29.38	10.91	40.29	56.00	-15.71
8.581	Average	11.47	10.62	22.09	50.00	-27.91
8.581	QP	28.31	10.62	38.93	60.00	-21.07
17.127	Peak	33.91	10.87	44.77	60.00	-15.23

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Report Number :TERF2305001252ER

Operation Mode :WPT

Power :120V/60Hz

Probe :N

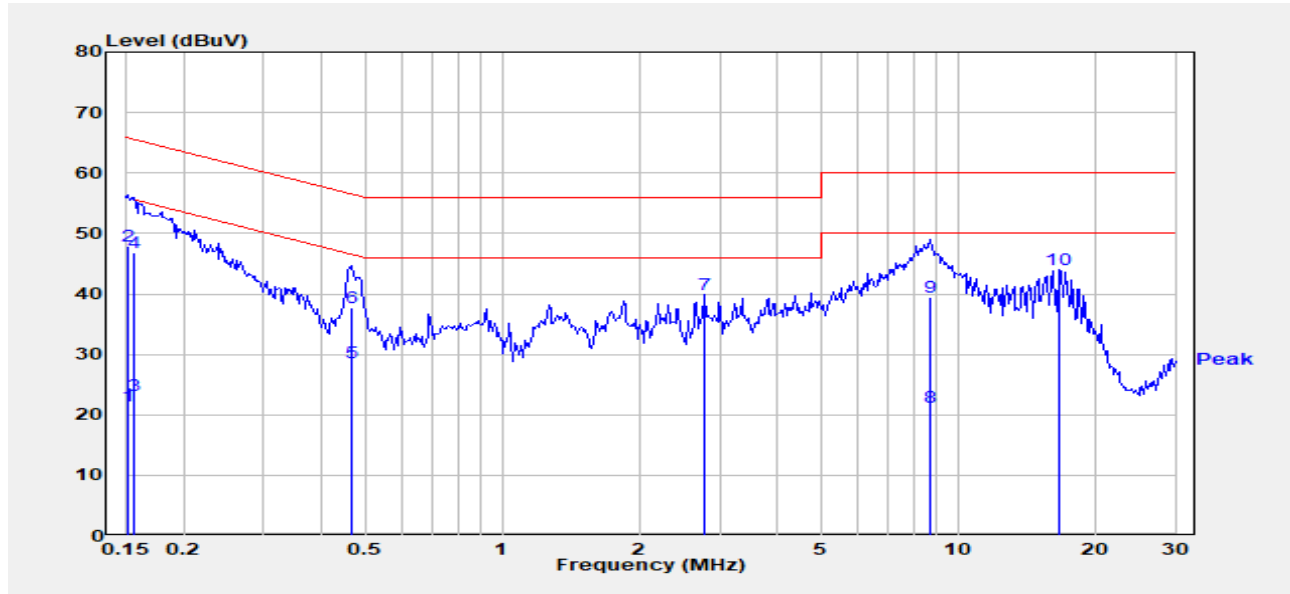
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Test Site :Conduction 1

Test Date :2023-06-20

Temp./Humi. :26.3°C/62%

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.151	Average	11.24	10.25	21.49	55.94	-34.45
0.151	QP	37.63	10.25	47.88	65.94	-18.06
0.156	Average	12.86	10.25	23.11	55.68	-32.57
0.156	QP	36.59	10.25	46.84	65.68	-18.84
0.467	Average	18.44	10.25	28.69	46.56	-17.87
0.467	QP	27.54	10.25	37.79	56.56	-18.77
2.775	Peak	28.90	10.89	39.79	56.00	-16.21
8.714	Average	10.71	10.61	21.32	50.00	-28.68
8.714	QP	28.80	10.61	39.41	60.00	-20.59
16.609	Peak	33.27	10.78	44.04	60.00	-15.96

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Member of SGS Group

Report Number :TERF2305001252ER

Operation Mode :WPT

Power :120V/60Hz

Probe :L

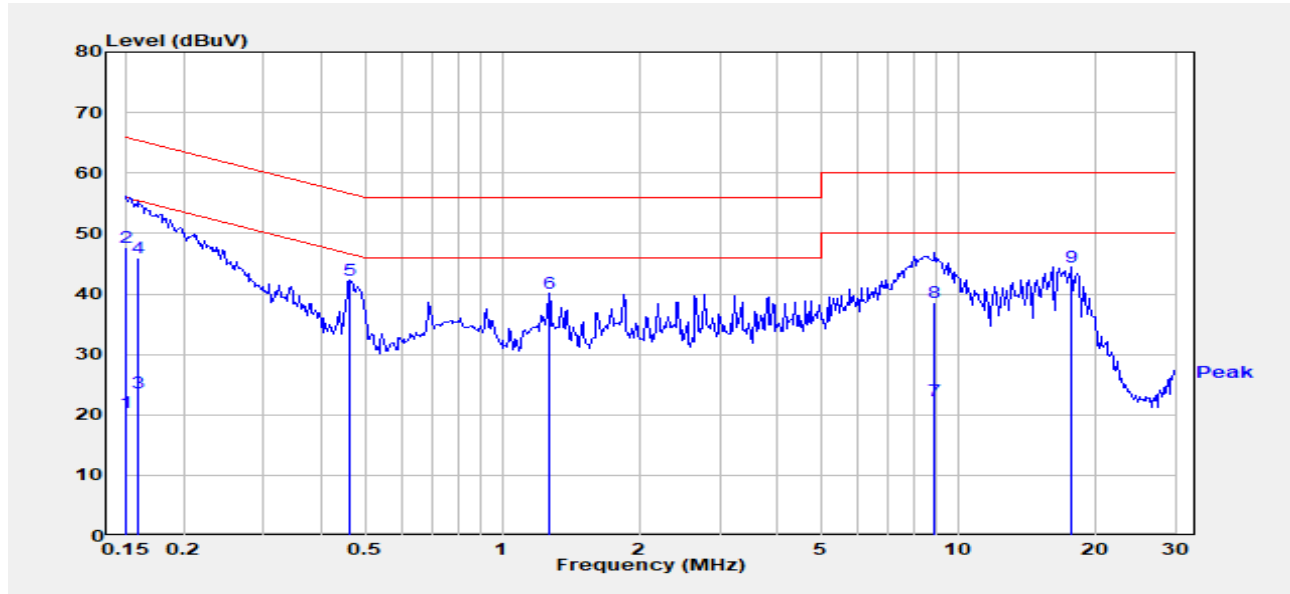
Note: :50%

Test Site :Conduction 1

Test Date :2023-06-20

Temp./Humi. :26.3°C/62%

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.150	Average	10.11	10.25	20.36	56.00	-35.64
0.150	QP	37.44	10.25	47.69	66.00	-18.31
0.160	Average	13.29	10.25	23.54	55.49	-31.95
0.160	QP	35.71	10.25	45.96	65.49	-19.53
0.464	Peak	32.12	10.25	42.37	56.62	-14.25
1.268	Peak	29.46	10.61	40.07	56.00	-15.93
8.917	Average	11.75	10.62	22.37	50.00	-27.63
8.917	QP	28.02	10.62	38.64	60.00	-21.36
17.797	Peak	33.50	10.88	44.38	60.00	-15.62

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Member of SGS Group

Report Number :TERF2305001252ER

Operation Mode :WPT

Power :120V/60Hz

Probe :N

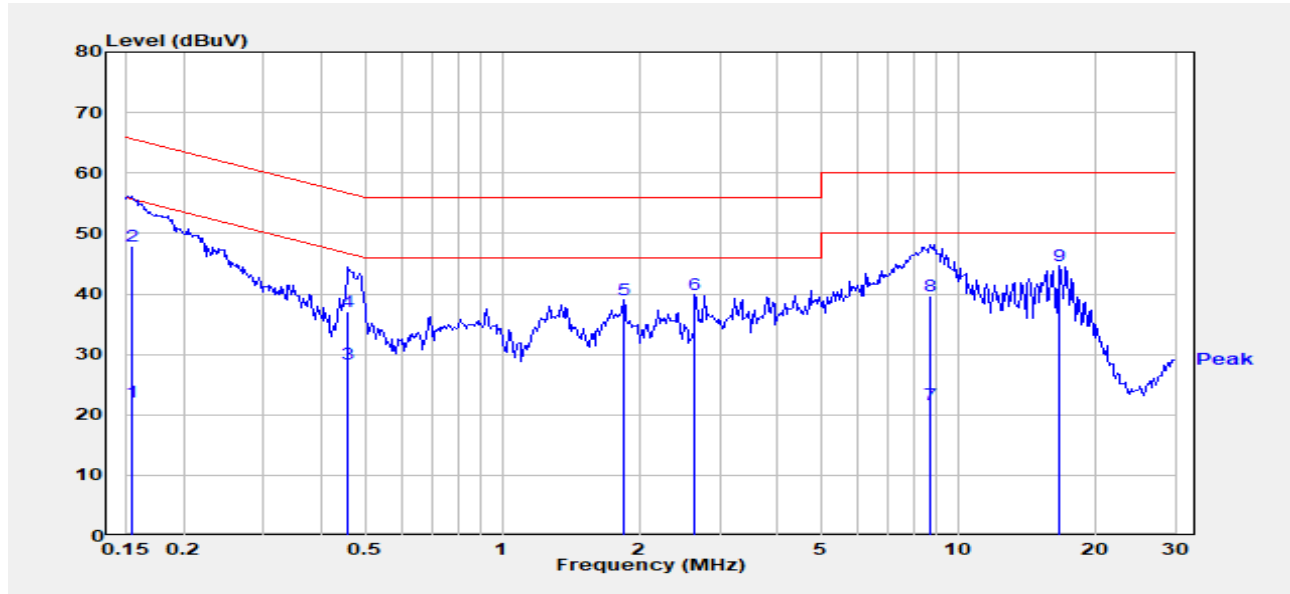
Note: :50%

Test Site :Conduction 1

Test Date :2023-06-20

Temp./Humi. :26.3°C/62%

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.153	Average	11.94	10.25	22.19	55.81	-33.62
0.153	QP	37.61	10.25	47.86	65.81	-17.95
0.460	Average	18.12	10.25	28.37	46.69	-18.32
0.460	QP	26.92	10.25	37.17	56.69	-19.52
1.847	Peak	28.01	11.00	39.01	56.00	-16.99
2.650	Peak	29.01	10.92	39.92	56.00	-16.08
8.714	Average	11.10	10.61	21.71	50.00	-28.29
8.714	QP	29.01	10.61	39.62	60.00	-20.38
16.609	Peak	33.82	10.78	44.60	60.00	-15.40

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Report Number :TERF2305001252ER

Operation Mode :WPT

Power :120V/60Hz

Probe :L

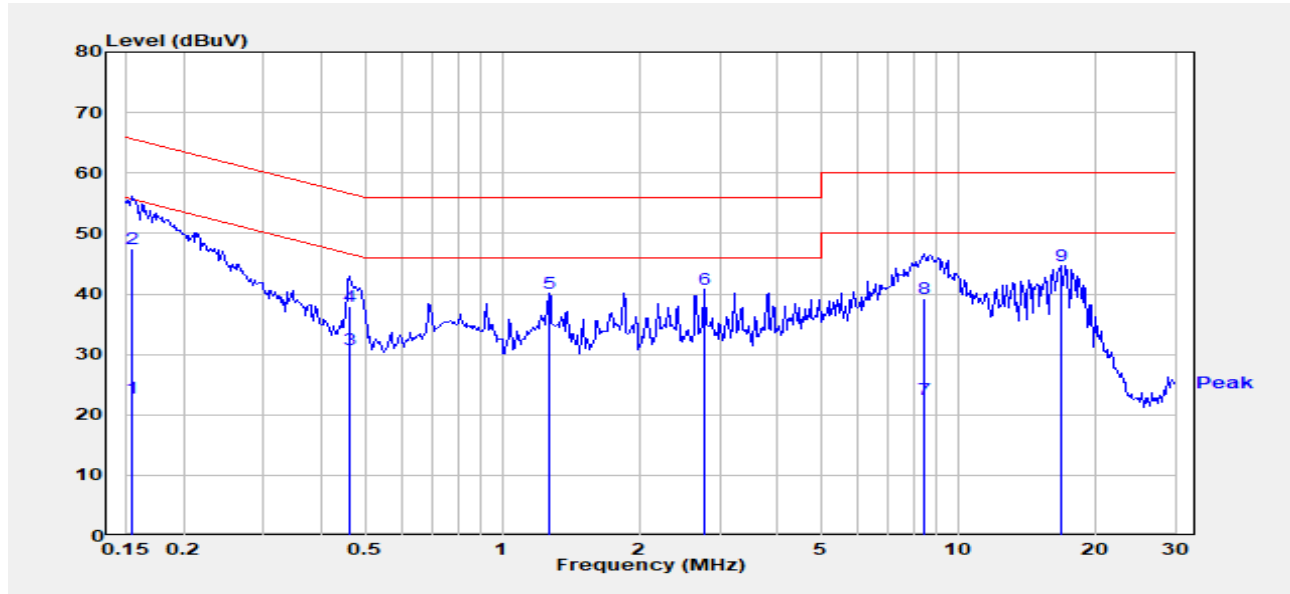
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Test Site :Conduction 1

Test Date :2023-06-20

Temp./Humi. :26.3°C/62%

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.155	Average	12.49	10.25	22.74	55.74	-33.00
0.155	QP	37.23	10.25	47.48	65.74	-18.26
0.464	Average	20.57	10.25	30.82	46.62	-15.80
0.464	QP	27.72	10.25	37.97	56.62	-18.65
1.268	Peak	29.45	10.61	40.06	56.00	-15.94
2.775	Peak	29.88	10.88	40.76	56.00	-15.24
8.450	Average	11.96	10.62	22.58	50.00	-27.42
8.450	QP	28.54	10.62	39.16	60.00	-20.84
16.866	Peak	33.87	10.86	44.72	60.00	-15.28

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Member of SGS Group

Report Number :TERF2305001252ER

Operation Mode :WPT

Power :120V/60Hz

Probe :N

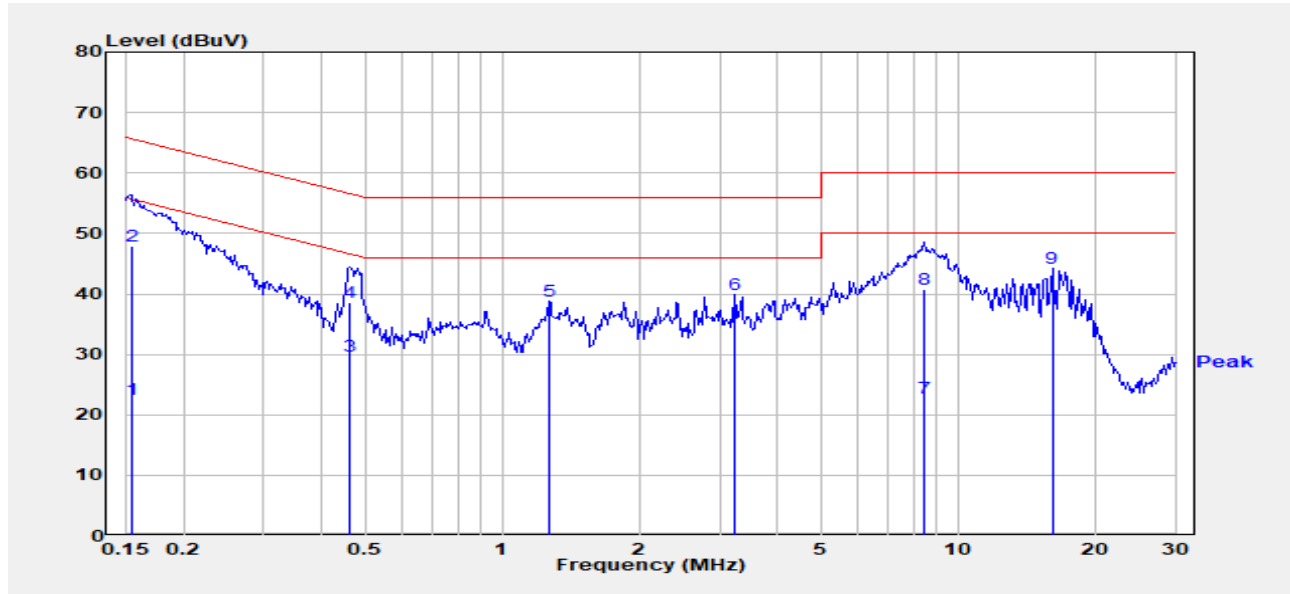
Note: :100%

Test Site :Conduction 1

Test Date :2023-06-20

Temp./Humi. :26.3°C/62%

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.153	Average	12.23	10.25	22.48	55.81	-33.33
0.153	QP	37.71	10.25	47.96	65.81	-17.85
0.464	Average	19.44	10.25	29.69	46.62	-16.93
0.464	QP	28.27	10.25	38.52	56.62	-18.10
1.268	Peak	28.21	10.61	38.81	56.00	-17.19
3.236	Peak	29.01	10.80	39.81	56.00	-16.19
8.450	Average	12.13	10.61	22.74	50.00	-27.26
8.450	QP	30.24	10.61	40.85	60.00	-19.15
16.106	Peak	33.53	10.77	44.29	60.00	-15.71

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Type A

Report Number :TERF2305001252ER

Operation Mode :WPT

Power :120V/60Hz

Probe :L

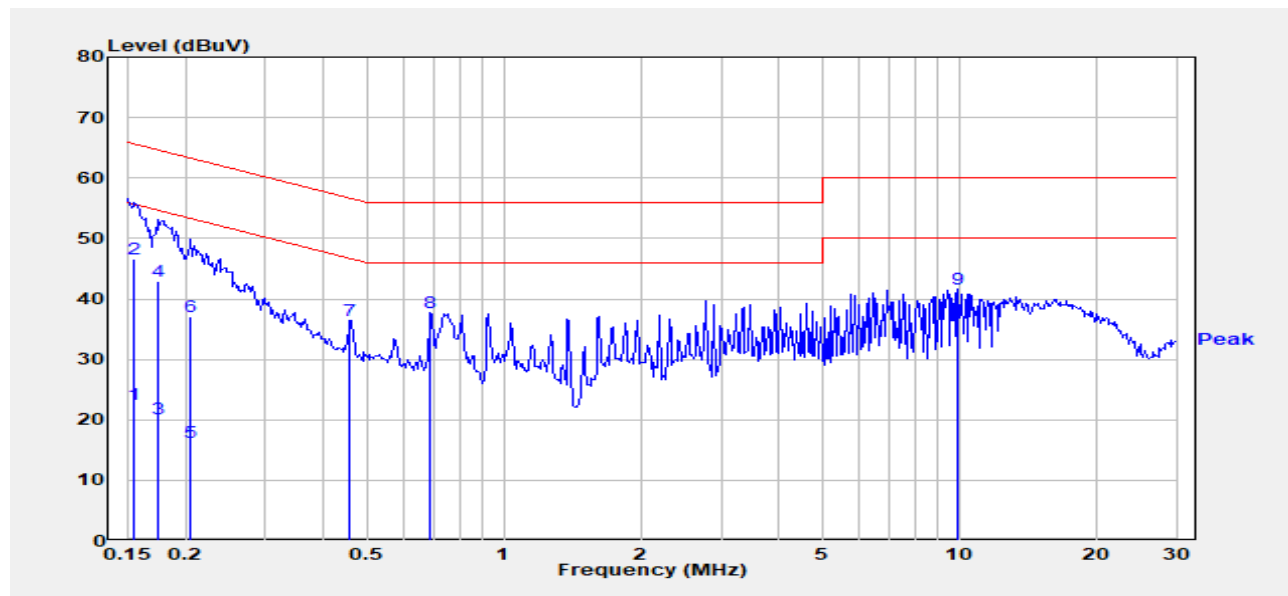
Note: :0%

Test Site :Conduction 1

Test Date :2023-07-19

Temp./Humi. :26.4°C/51%

Engineer :Nick Lin



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
0.155	Average	12.21	10.25	22.46	55.74	-33.28
0.155	QP	36.44	10.25	46.69	65.74	-19.05
0.174	Average	9.94	10.25	20.19	54.79	-34.60
0.174	QP	32.57	10.25	42.82	64.79	-21.97
0.206	Average	5.99	10.25	16.24	53.39	-37.15
0.206	QP	26.78	10.25	37.03	63.39	-26.36
0.460	Peak	26.25	10.25	36.50	56.69	-20.19
0.691	Peak	27.38	10.30	37.68	56.00	-18.32
9.929	Peak	30.91	10.64	41.55	60.00	-18.45

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Report Number :TERF2305001252ER

Operation Mode :WPT

Power :120V/60Hz

Probe :N

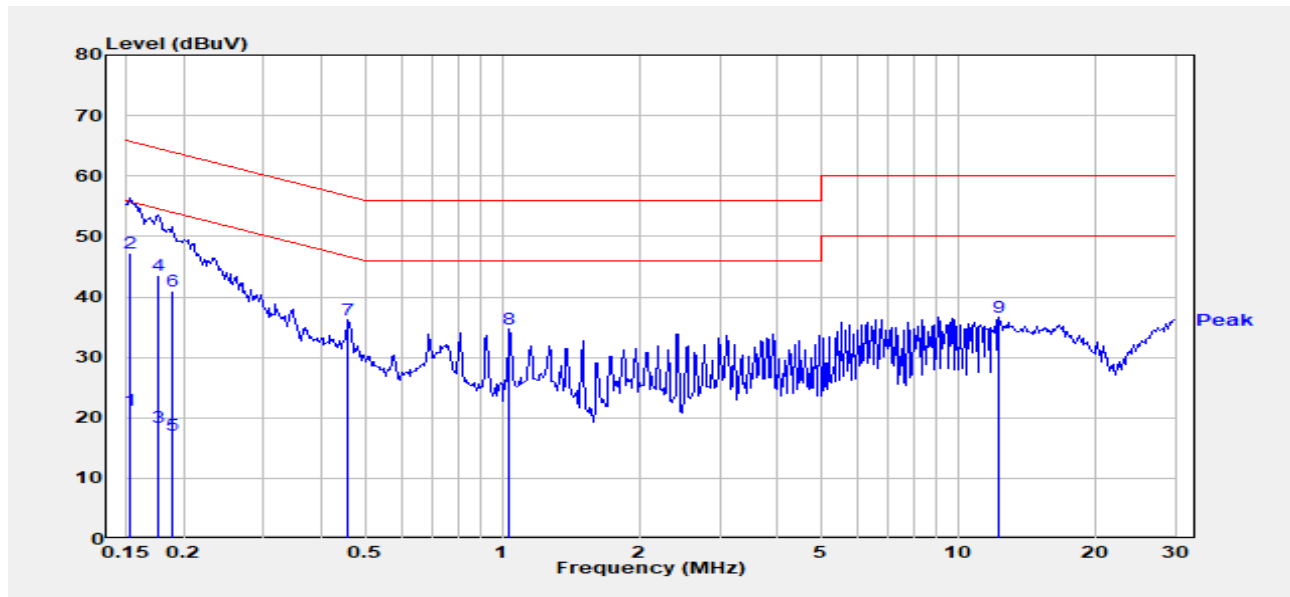
Note: :0%

Test Site :Conduction 1

Test Date :2023-07-19

Temp./Humi. :26.4°C/51%

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.152	Average	11.02	10.25	21.27	55.87	-34.60
0.152	QP	36.94	10.25	47.19	65.87	-18.68
0.176	Average	8.14	10.25	18.39	54.66	-36.27
0.176	QP	33.38	10.25	43.63	64.66	-21.03
0.189	Average	6.88	10.25	17.13	54.09	-36.96
0.189	QP	30.72	10.25	40.97	64.09	-23.12
0.460	Peak	25.88	10.25	36.13	56.69	-20.56
1.039	Peak	24.25	10.40	34.65	56.00	-21.35
12.311	Peak	25.93	10.69	36.62	60.00	-23.38

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Report Number :TERF2305001252ER

Operation Mode :WPT

Power :120V/60Hz

Probe :L

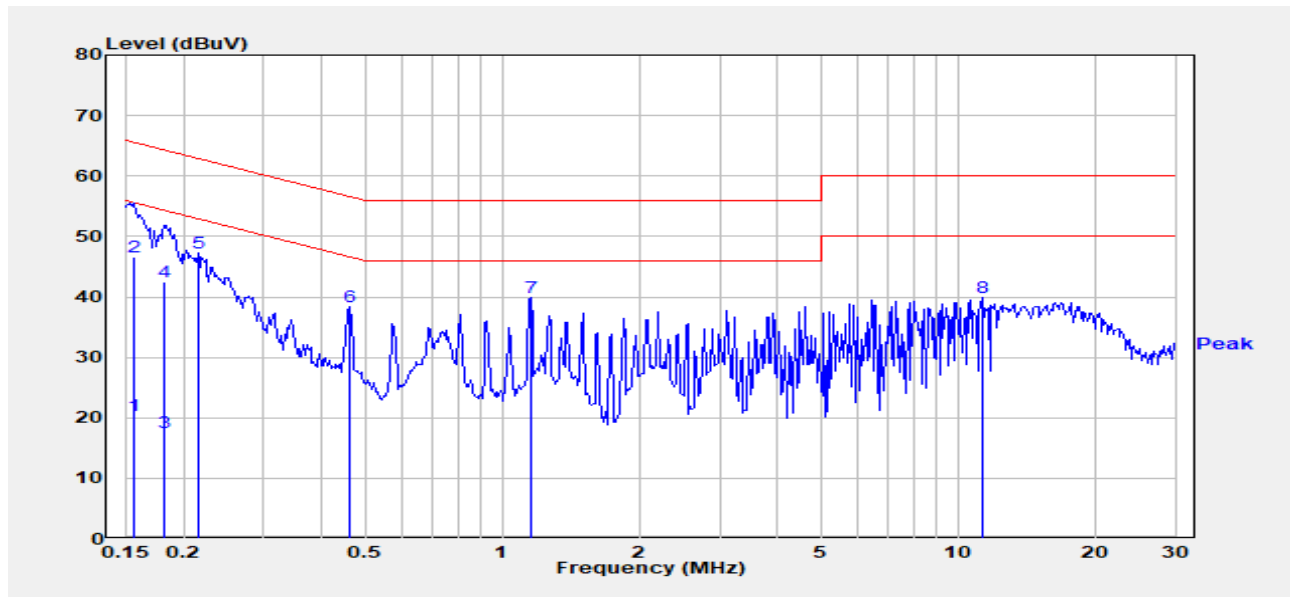
Note: :50%

Test Site :Conduction 1

Test Date :2023-07-19

Temp./Humi. :26.4°C/51%

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.156	Average	10.23	10.25	20.48	55.68	-35.20
0.156	QP	36.45	10.25	46.70	65.68	-18.98
0.182	Average	7.40	10.25	17.65	54.41	-36.76
0.182	QP	32.17	10.25	42.42	64.41	-21.99
0.215	Peak	37.07	10.25	47.32	63.00	-15.68
0.464	Peak	28.06	10.25	38.31	56.62	-18.32
1.157	Peak	29.39	10.51	39.90	56.00	-16.10
11.314	Peak	29.23	10.69	39.92	60.00	-20.08

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f (886-2) 2298-0488

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Report Number :TERF2305001252ER

Operation Mode :WPT

Power :120V/60Hz

Probe :N

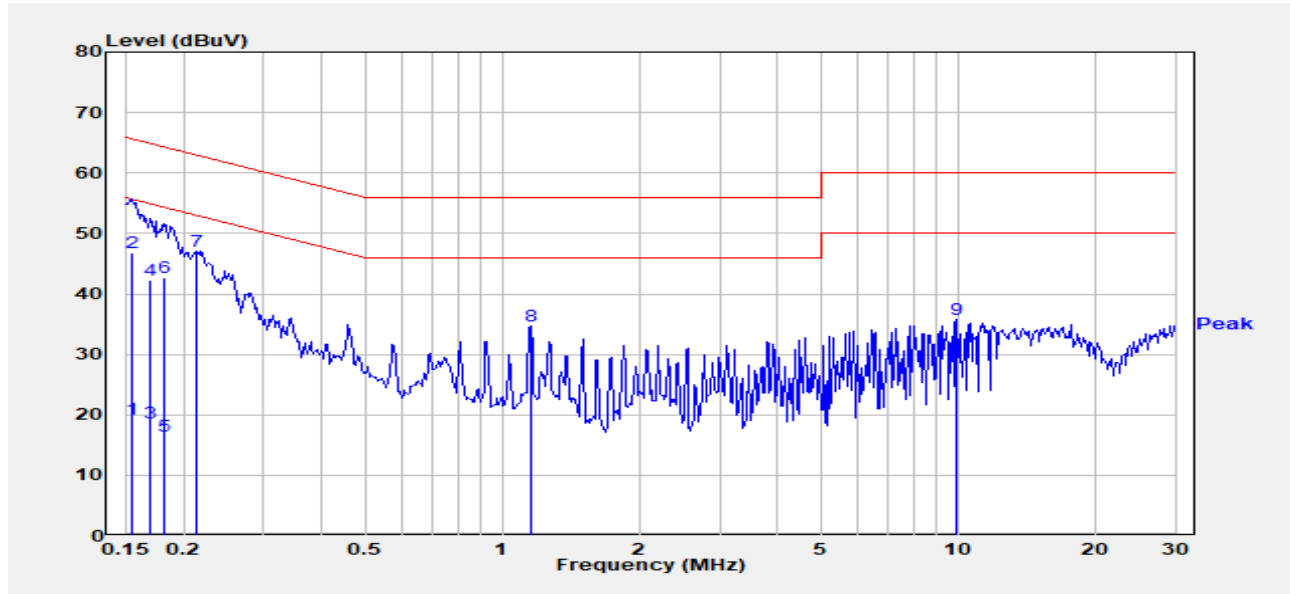
Note: :50%

Test Site :Conduction 1

Test Date :2023-07-19

Temp./Humi. :26.4°C/51%

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.155	Average	9.13	10.25	19.38	55.74	-36.36
0.155	QP	36.62	10.25	46.87	65.74	-18.87
0.170	Average	8.46	10.25	18.71	54.98	-36.27
0.170	QP	32.05	10.25	42.30	64.98	-22.68
0.182	Average	6.14	10.25	16.39	54.41	-38.02
0.182	QP	32.39	10.25	42.64	64.41	-21.77
0.214	Peak	36.81	10.25	47.06	63.07	-16.01
1.157	Peak	24.26	10.51	34.77	56.00	-21.23
9.929	Peak	25.05	10.63	35.68	60.00	-24.32

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Report Number :TERF2305001252ER

Operation Mode :WPT

Power :120V/60Hz

Probe :L

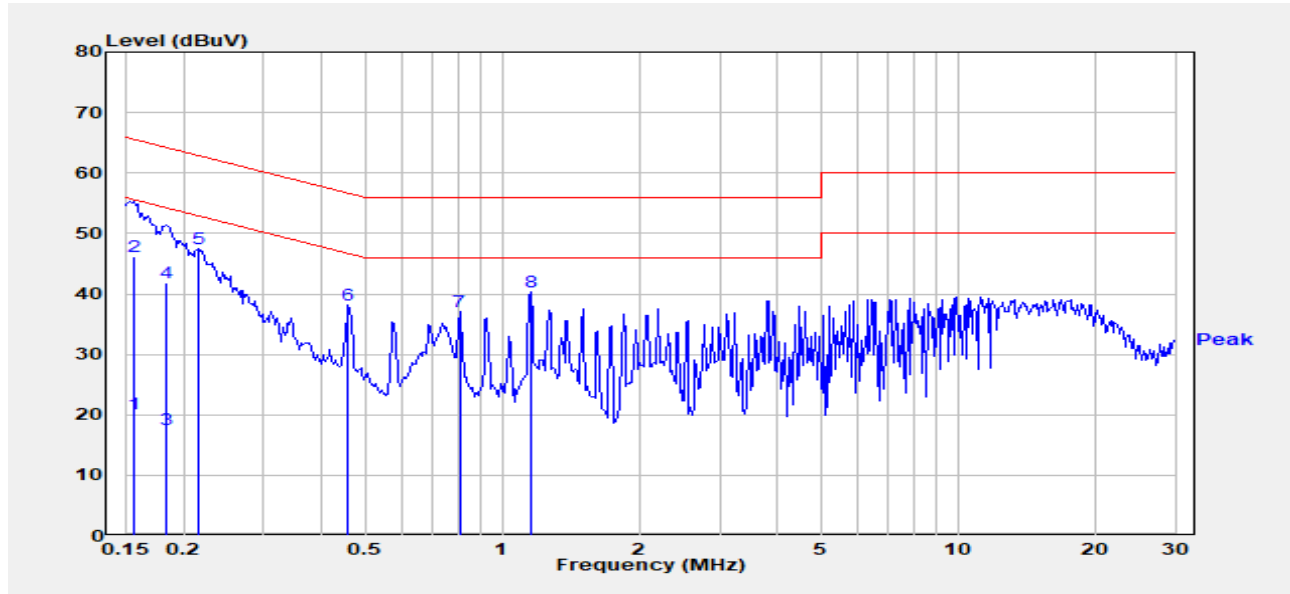
Note: :100%

Test Site :Conduction 1

Test Date :2023-07-19

Temp./Humi. :26.4°C/51%

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.156	Average	9.92	10.25	20.17	55.68	-35.51
0.156	QP	36.00	10.25	46.25	65.68	-19.43
0.183	Average	7.26	10.25	17.51	54.34	-36.83
0.183	QP	31.68	10.25	41.93	64.34	-22.41
0.215	Peak	37.26	10.25	47.51	63.00	-15.50
0.460	Peak	27.85	10.25	38.10	56.69	-18.59
0.806	Peak	26.64	10.33	36.97	56.00	-19.03
1.157	Peak	29.77	10.51	40.28	56.00	-15.72

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Report Number :TERF2305001252ER

Operation Mode :WPT

Power :120V/60Hz

Probe :N

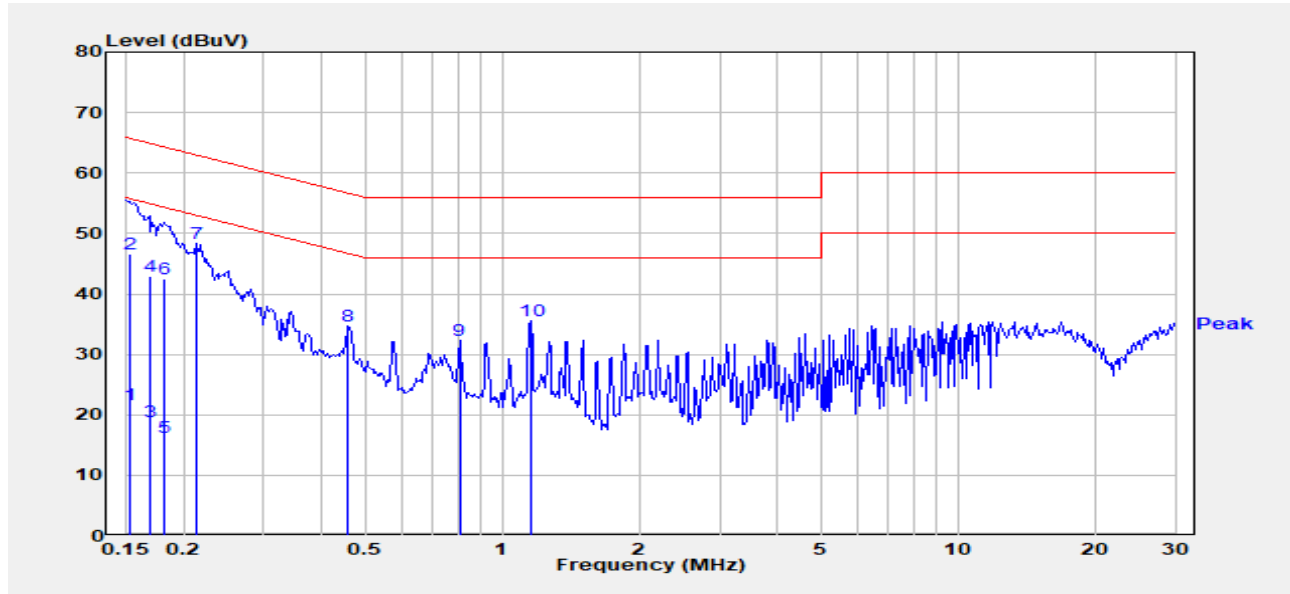
Note: :100%

Test Site :Conduction 1

Test Date :2023-07-19

Temp./Humi. :26.4°C/51%

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.152	Average	11.46	10.25	21.71	55.87	-34.16
0.152	QP	36.32	10.25	46.57	65.87	-19.30
0.168	Average	8.59	10.25	18.84	55.04	-36.20
0.168	QP	32.61	10.25	42.86	65.04	-22.18
0.182	Average	6.08	10.25	16.33	54.41	-38.08
0.182	QP	32.31	10.25	42.56	64.41	-21.85
0.214	Peak	38.10	10.25	48.35	63.07	-14.72
0.460	Peak	24.54	10.25	34.79	56.69	-21.89
0.806	Peak	21.94	10.33	32.27	56.00	-23.73
1.157	Peak	24.99	10.51	35.50	56.00	-20.50

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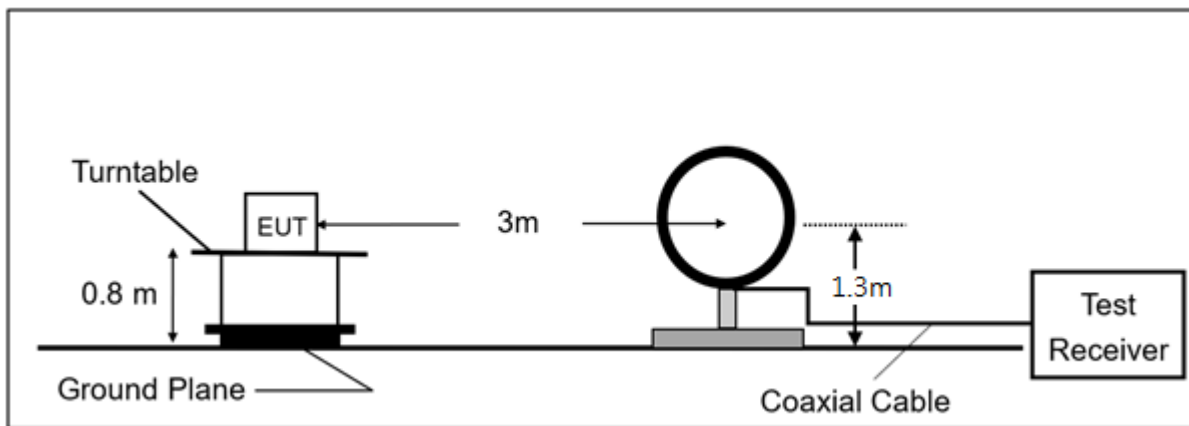
8 RADIATED EMISSION TEST

8.1 Measurement Procedure

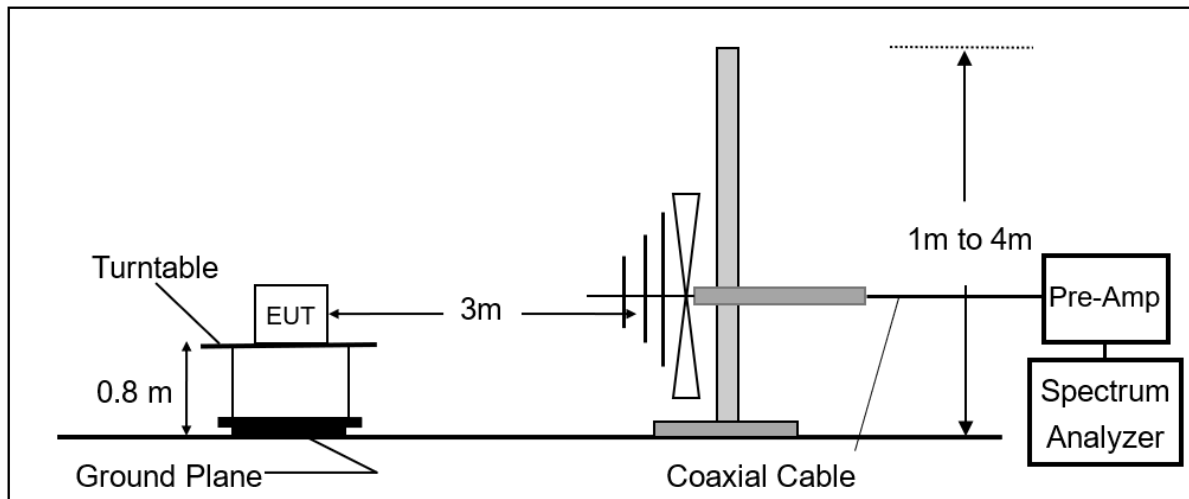
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

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 (μV/m)
2. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
3. $20 \cdot \log(30 \mu\text{V/m}) + 40\text{dB} = 69.54 \text{ dBuV/m}$
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.
1. 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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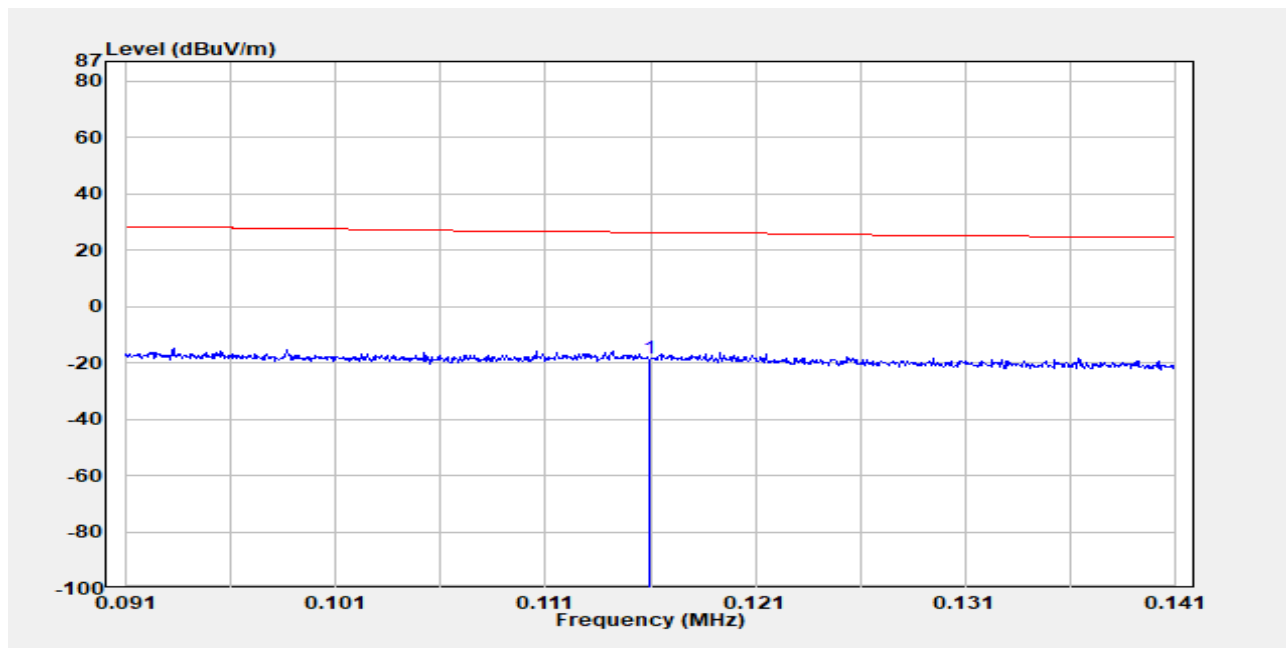
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8.4 Test Result

8.4.1 Field Strength of Fundamental Emission

Report Number :TERF2305001252ER
 Operation Mode :WPT
 Test Frequency :116 kHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-06-19
 Temp./Humi. :25.1°C/64%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
0.116	Peak	49.23	-67.42	-18.19	26.32	-44.51

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.

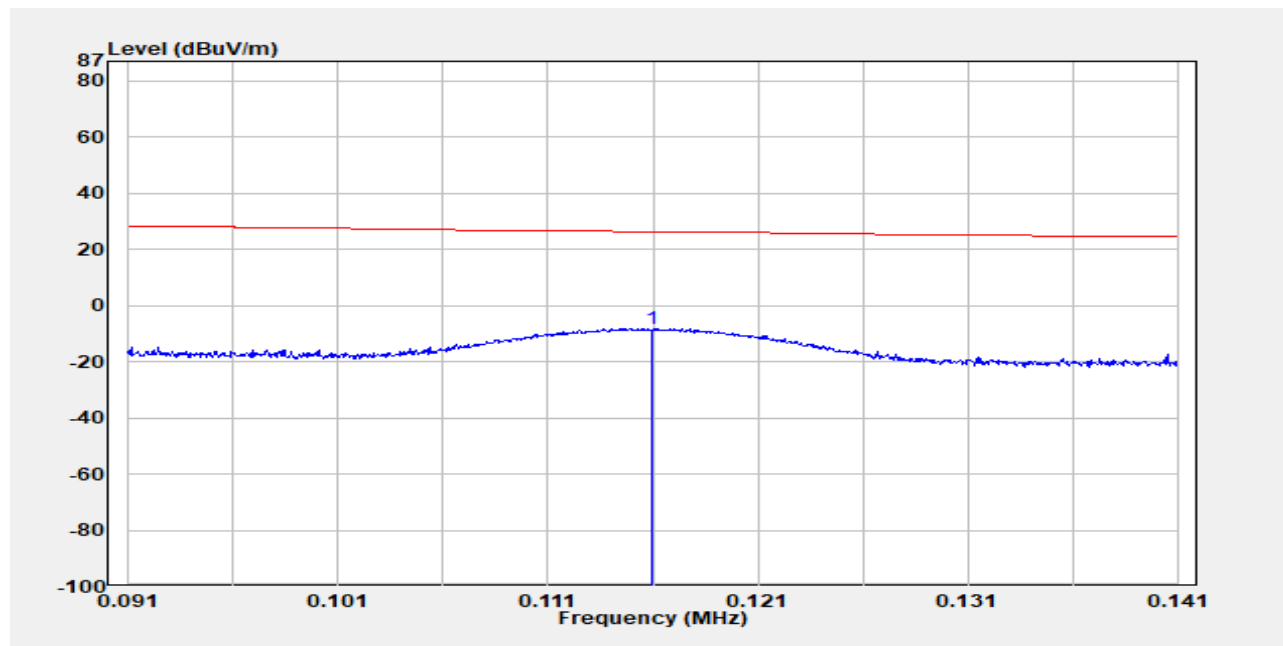
Field strength (dBuV/m) at 30m,within the band 490 kHz - 30 MHz.

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Report Number :TERF2305001252ER
 Operation Mode :WPT
 Test Frequency :116 kHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-06-19
 Temp./Humi. :25.1°C/64%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
0.116	Peak	58.91	-67.42	-8.52	26.32	-34.84

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.

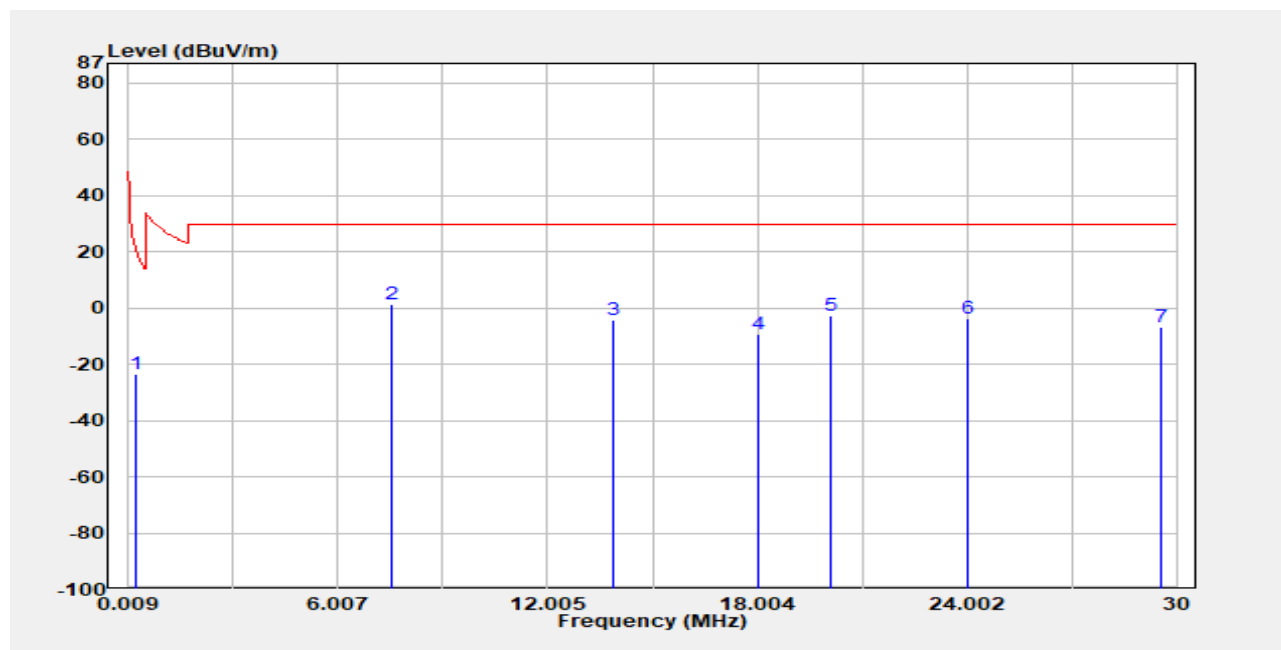
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8.4.2 Below 30 MHz test result

Report Number :TERF2305001252ER
 Operation Mode :WPT
 Test Frequency :116 kHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-06-19
 Temp./Humi. :25.1°C/64%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
0.232	Peak	43.98	-67.20	-23.22	20.30	-43.52
7.537	Peak	28.75	-27.28	1.47	29.54	-28.07
13.865	Peak	23.61	-27.76	-4.14	29.54	-33.68
18.034	Peak	19.01	-28.31	-9.30	29.54	-38.84
20.103	Peak	26.08	-28.55	-2.47	29.54	-32.01
24.002	Peak	25.41	-29.06	-3.66	29.54	-33.20
29.580	Peak	22.97	-29.67	-6.71	29.54	-36.25

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.

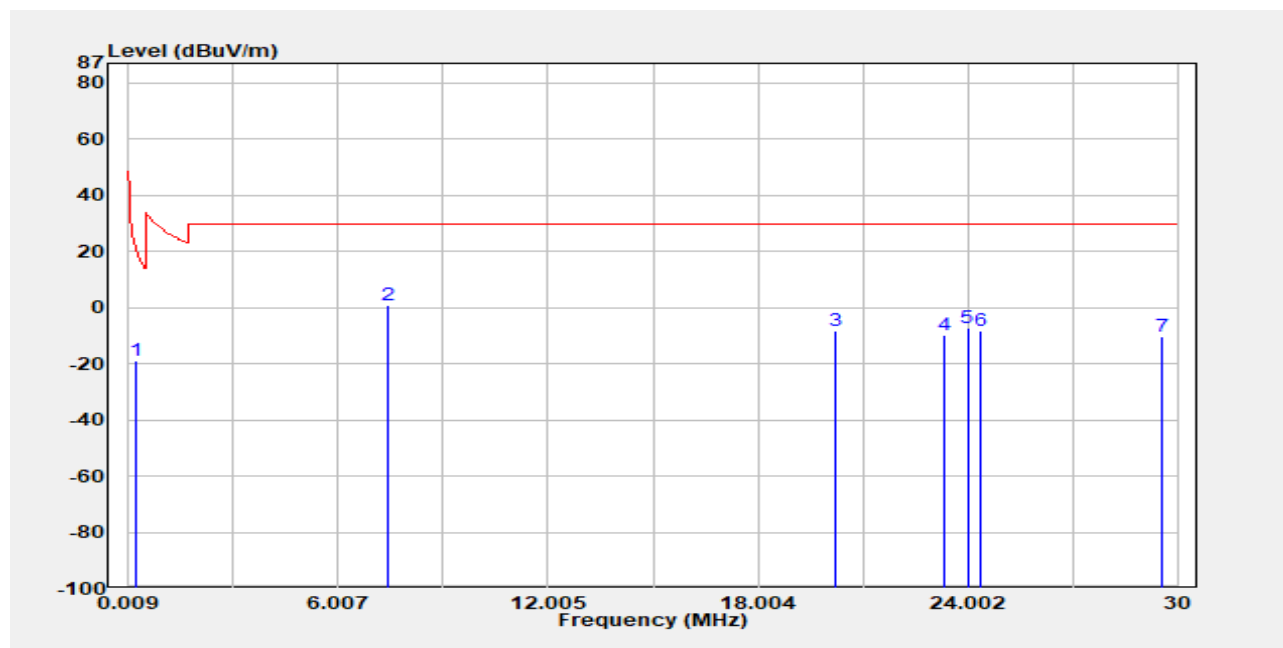
Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Report Number :TERF2305001252ER
 Operation Mode :WPT
 Test Frequency :116 kHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-06-19
 Temp./Humi. :25.1°C/64%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit dBUV/m	Margin dB
0.232	Peak	48.09	-67.20	-19.12	20.30	-39.41
7.411	Peak	28.24	-27.29	0.94	29.54	-28.60
20.220	Peak	20.12	-28.57	-8.45	29.54	-37.99
23.340	Peak	19.43	-28.98	-9.55	29.54	-39.09
24.000	Peak	21.70	-29.06	-7.37	29.54	-36.91
24.390	Peak	20.64	-29.11	-8.47	29.54	-38.01
29.580	Peak	19.30	-29.67	-10.38	29.54	-39.92

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.

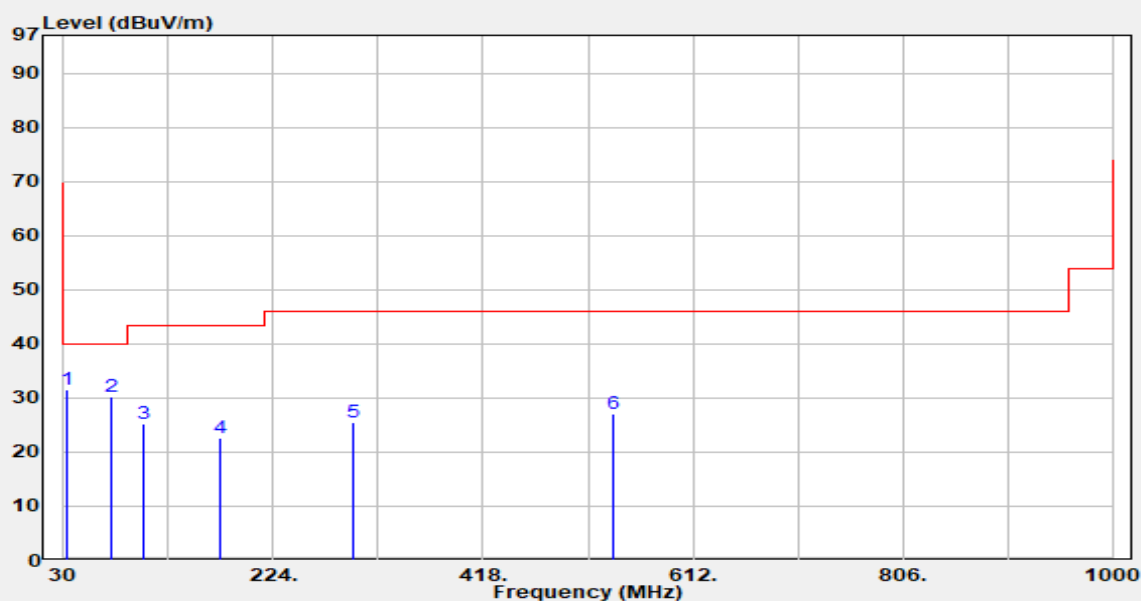
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8.4.3 Above 30MHz test result

Report Number :TERF2305001252ER
 Operation Mode :WPT
 Test Frequency :116 kHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-06-19
 Temp./Humi. :25.1°C/64%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



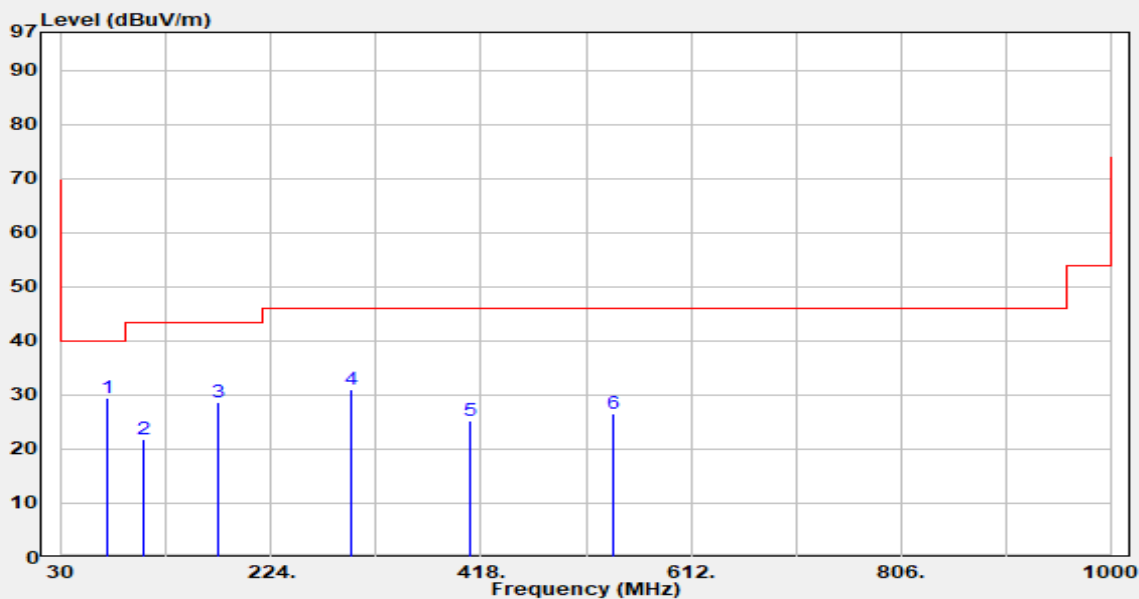
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
32.585	QP	41.58	-9.92	31.66	40.00	-8.34
73.350	QP	41.81	-11.53	30.28	40.00	-9.72
104.690	Peak	37.14	-11.98	25.17	43.50	-18.33
174.530	Peak	31.47	-8.86	22.61	43.50	-20.89
298.690	Peak	32.70	-7.12	25.58	46.00	-20.42
538.280	Peak	29.38	-2.37	27.02	46.00	-18.98

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Report Number :TERF2305001252ER
 Operation Mode :WPT
 Test Frequency :116 kHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 3
 Test Date :2023-06-19
 Temp./Humi. :25.1°C/64%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
72.680	Peak	40.75	-11.33	29.42	40.00	-10.58
105.660	Peak	33.64	-11.95	21.69	43.50	-21.81
174.530	Peak	37.44	-8.86	28.57	43.50	-14.93
297.720	Peak	38.06	-7.12	30.95	46.00	-15.05
407.330	Peak	30.27	-5.07	25.20	46.00	-20.80
540.220	Peak	28.87	-2.29	26.58	46.00	-19.42

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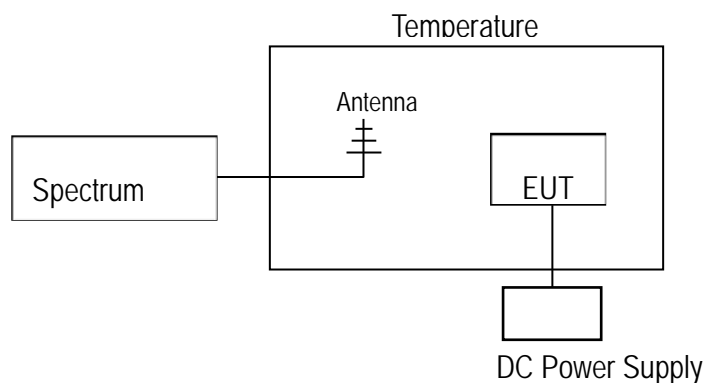
9 20 dB OCCUPIED BANDWIDTH MEASUREMENT

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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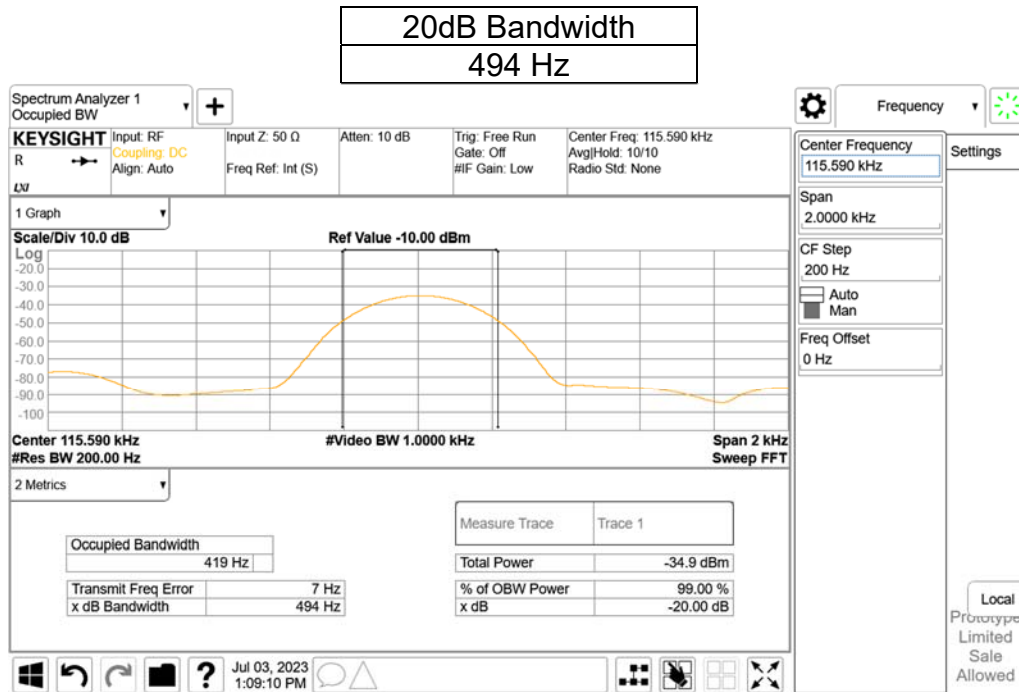
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9.4 Measurement Result

-20dB Bandwidth



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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 designed as permanently attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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