

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: HTC Corporation
No. 88, Section 3, Zhongxing Rd. Xindian Dist., New Taipei
City 231, Taiwan

Manufacturer: HTC Corporation
No. 88, Section 3, Zhongxing Rd. Xindian Dist., New Taipei
City 231, Taiwan

Product Name: Headset

Brand Name: VIVE

Model No.: 2QBB100

Model Difference: N/A

Report Number: TERF2207001118E2

FCC ID NM82QBB100

Date of EUT Received: Jul. 19, 2022

Date of Test: Aug. 01, 2022~Sep. 28, 2022

Issue Date: Nov. 25, 2022

Approved By _____

Vito Pei

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 §15.249.

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
TERF2207001118E2	00	Original.	Nov. 16, 2022	Yi-Shan Tsai	
TERF2207001118E2	01	Update Brand of Adapter	Nov. 25, 2022	Yi-Shan Tsai	*

Note:

- 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:	Headset
Brand Name:	VIVE
Model No.:	2QBB100
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	TE-2207000102P M1 E2 (Conducted) TE_SP_20220905591 (Conduction、Radiated)
Power Supply:	Battery Cradle 5V 3A, 9V 1.57A, 12V 1.5A
Test Software (Name/Version)	QRCT V4.0.00163.0 (Conducted) adb tool / V6.1 (Conduction、Radiated)

1.2 RF Specification

Radio Technology:	2.4GHz Short Range Radio
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	4.91 dBm

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	2402~2480	0.86

Note: Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.249

ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
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	TW3702
		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				
<p>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.</p>				

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 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

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 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. For emission measurements above 1 GHz, the table height shall be 1.5 m. 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 electric field radiated emissions above 1 GHz the EUT 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 Measurement Results Explanation Example

2.4.1 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.

2.4.2 For all conducted test items:

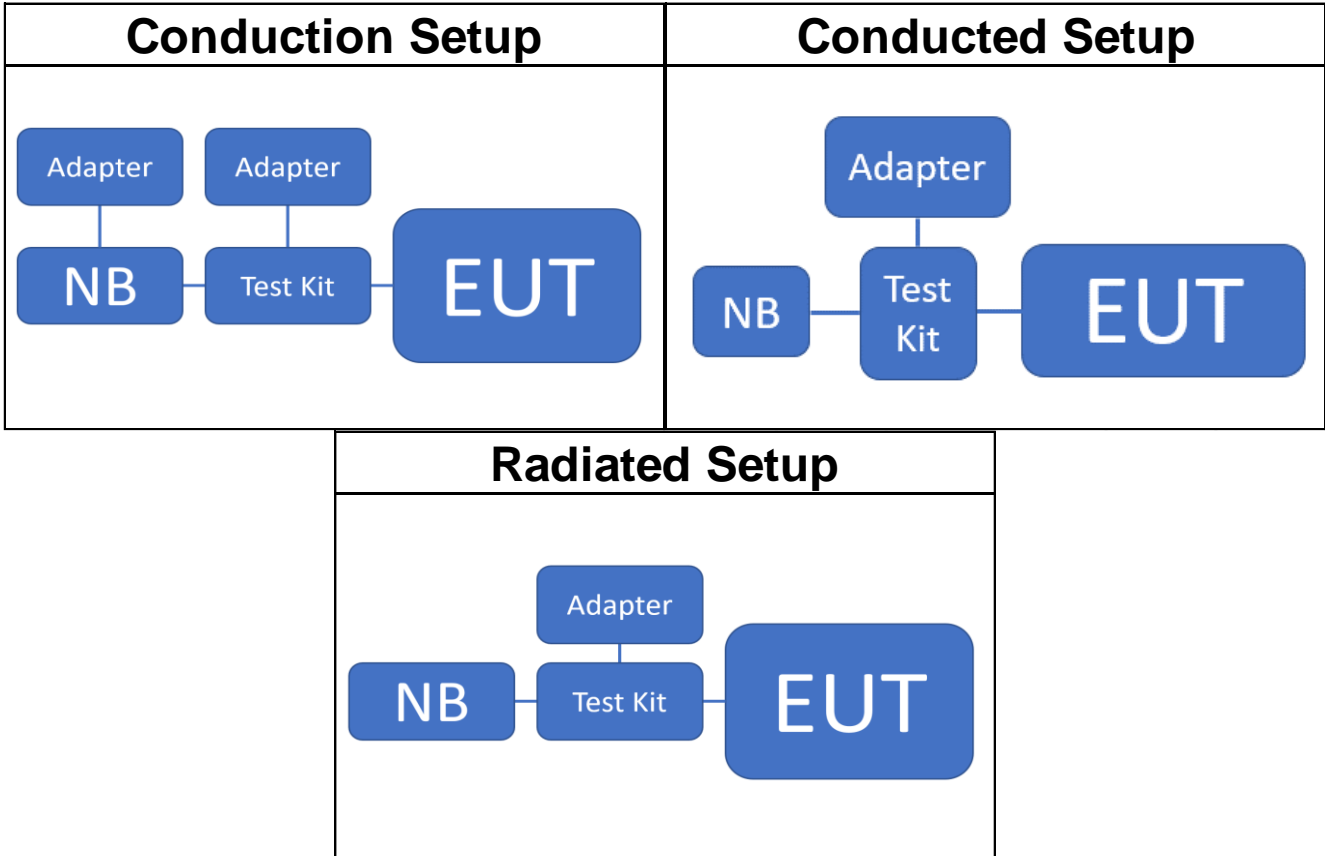
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Test Configuration



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2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440p	P0000665	N/A	N/A
Adapter	Lenovo	ADLX90NLC3A	N/A	N/A	N/A
1.2M C-to-C cable	VIVE	C807M3A03E1M2	N/A	N/A	N/A
USB Cable	Hawk	CAD150	N/A	N/A	N/A
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A
Test kit	VIVE	2QBB100-TB	N/A	N/A	N/A
Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB Cable	Hawk	CAD150	N/A	N/A	N/A
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A
Test kit	VIVE	2QBB100-TB	N/A	N/A	N/A
Notebook	Lenovo	T420	S0012599	N/A	N/A
Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440p	P0000665	N/A	N/A
USB Cable	Hawk	CAD150	N/A	N/A	N/A
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A
Test kit	VIVE	2QBB100-TB	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.249(a)(e) §15.249(a), 15.209	Radiated Emission	Compliant
§15.215(c)	Emission Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

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5 THE WORST TEST MODES AND CHANNEL DETAILS

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED FREQUENCY	MODULATION	ANTENNA PORT
2.4G	0~39	2442	GFSK	ANT2
RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED FREQUENCY	MODULATION	ANTENNA PORT
2.4G	0~39	2402, 2442, 2480	GFSK	ANT2

Note: 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.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED FREQUENCY	MODULATION	ANTENNA PORT
2.4G	0~39	2402, 2442, 2480	GFSK	ANT2

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6 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.57 dB	9kHz~30MHz
	+/- 4.85 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 2.57 dB	9kHz~30MHz
	+/- 4.37 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 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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7 MEASUREMENT EQUIPMENT USED

7.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/13/2022	04/12/2023
EMI Test Receiver	R&S	ESCI	101342	04/25/2022	04/24/2023
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2022	03/26/2023
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2022	03/26/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

7.2 Conducted Measurement

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/16/2022	05/15/2023
Power Meter	Anritsu	ML2496A	1512003	07/26/2022	07/25/2023
Power Sensor	Anritsu	MA2411B	1339378	07/26/2022	07/25/2023
Power Sensor	Anritsu	MA2411B	1339379	07/26/2022	07/25/2023
Attenuator	Marvelous	WATT-218FS-10	RF16	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF23	11/18/2021	11/17/2022
DC Block	PASTERNAK	PE8210	RF158	11/18/2021	11/17/2022

7.3 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	11/12/2021	11/11/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	08/22/2022	08/21/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/31/2022	05/30/2023
Loop Antenna	ETS.LINDGREN	6502	143303	05/14/2022	05/13/2023
3m Site NSA	SGS	966 chamber D	N/A	04/30/2022	04/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/24/2022	03/23/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/18/2021	11/17/2022
Attenuator	Marvelous	MVE2213-10	RF05	11/18/2021	11/17/2022
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/18/2021	11/17/2022

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

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8 CONDUCTED EMISSION TEST

8.1 Applicable Standard:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

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

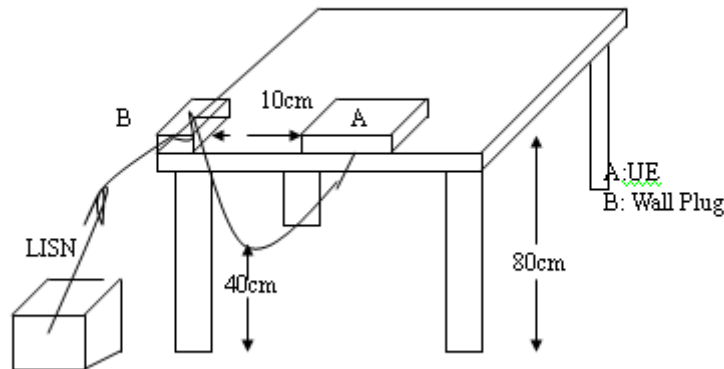
Note

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.

8.2 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.

8.3 Test Setup



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8.4 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 phases of power being supplied by given UE are completed

8.5 Measurement Result:

Note: Refer to next page for measurement data and plots.

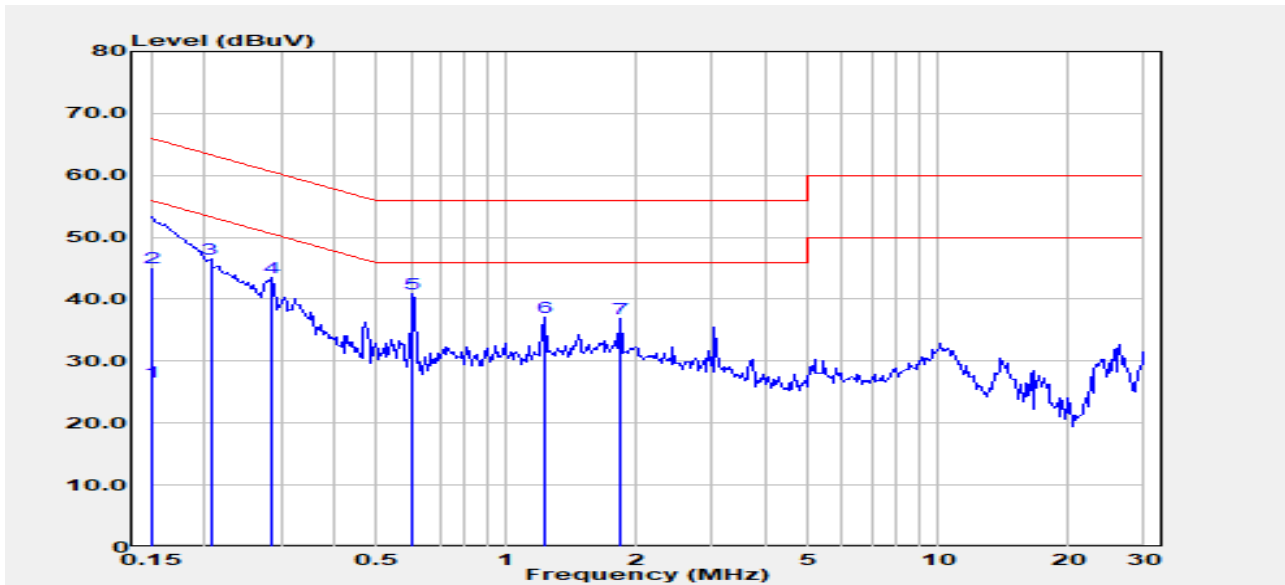
Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2207001118E2	Test Site	:Conduction C
Test Mode	:SRD 2.4G	Test Date	:2022-09-28
Power	:120V/60Hz	Temp./Humi.	:24.7/54
Probe	:L1	Engineer	:Howard Huang



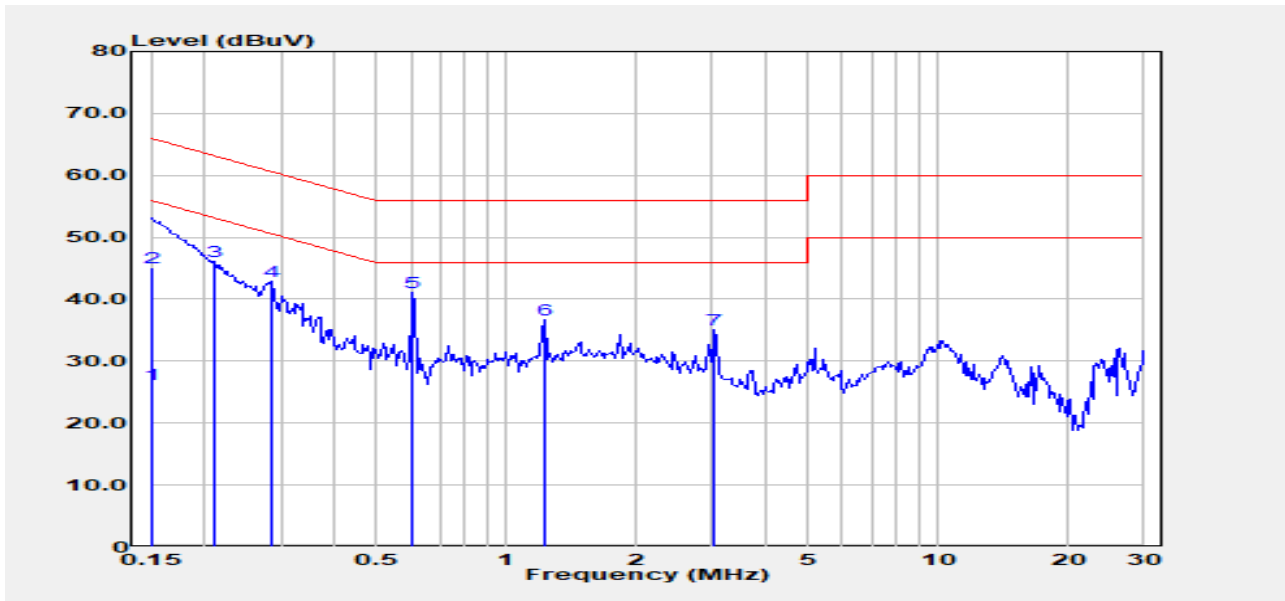
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.152	Average	16.30	10.30	26.60	55.91	-29.31
0.152	QP	34.90	10.30	45.20	65.91	-20.71
0.206	Peak	36.14	10.30	46.44	63.36	-16.92
0.286	Peak	33.25	10.30	43.56	60.63	-17.07
0.608	Peak	30.61	10.32	40.93	56.00	-15.07
1.223	Peak	26.56	10.58	37.14	56.00	-18.86
1.829	Peak	25.87	11.06	36.93	56.00	-19.07

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Report Number	:TERF2207001118E2	Test Site	:Conduction C
Test Mode	:SRD 2.4G	Test Date	:2022-09-28
Power	:120V/60Hz	Temp./Humi.	:24.7/54
Probe	:N	Engineer	:Howard Huang



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
0.152	Average	16.00	10.31	26.31	55.91	-29.60
0.152	QP	34.80	10.31	45.11	65.91	-20.80
0.211	Peak	35.75	10.30	46.05	63.18	-17.13
0.286	Peak	32.51	10.31	42.82	60.63	-17.81
0.608	Peak	30.74	10.33	41.07	56.00	-14.93
1.223	Peak	26.10	10.59	36.69	56.00	-19.31
3.041	Peak	24.25	10.89	35.13	56.00	-20.87

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9 RADIATED EMISSION TEST

9.1 Applicable Standard

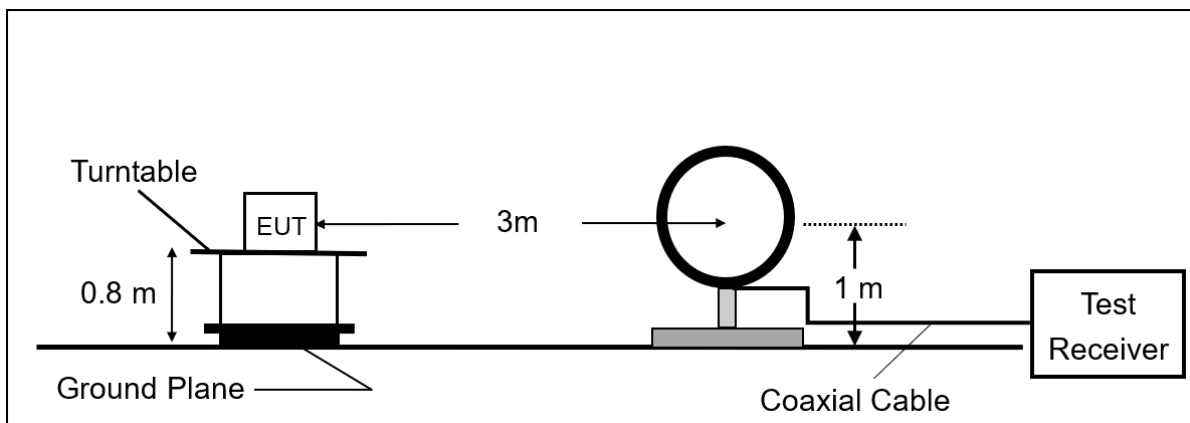
1. Only spurious emissions are permitted in any of the frequency bands listed in §15.205.
2. The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.
3. Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in §15.209, whichever is less stringent.

9.2 Measurement Procedure

1. The EUT was placed on a turntable with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz 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.

9.3 Test Setup

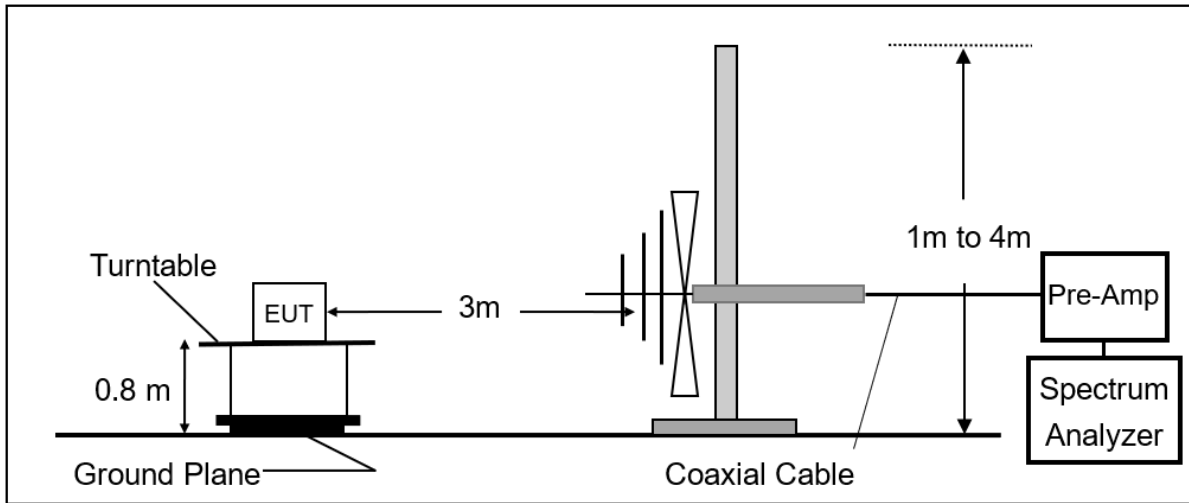
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



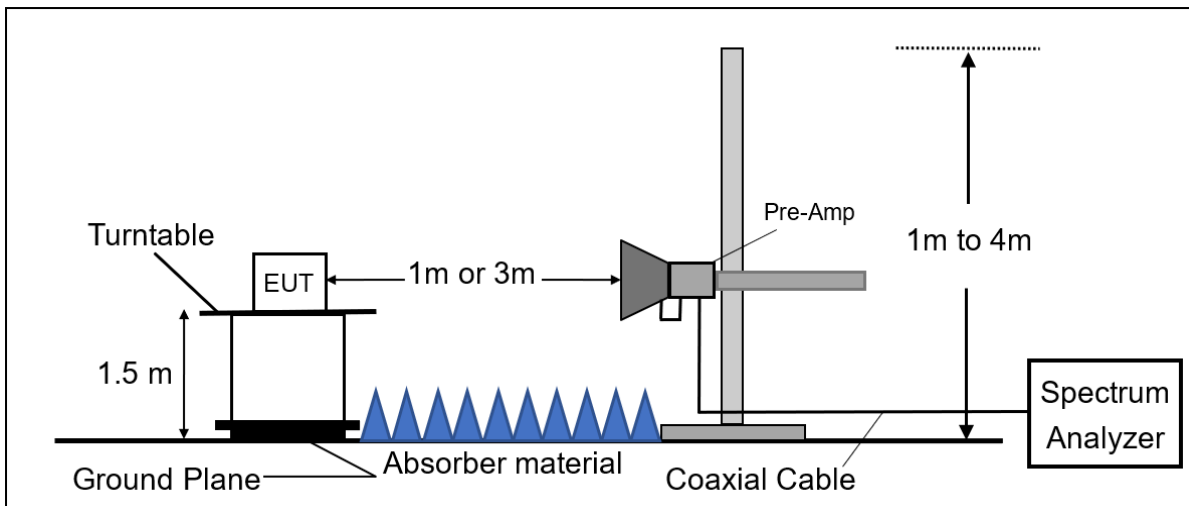
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(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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9.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)
 Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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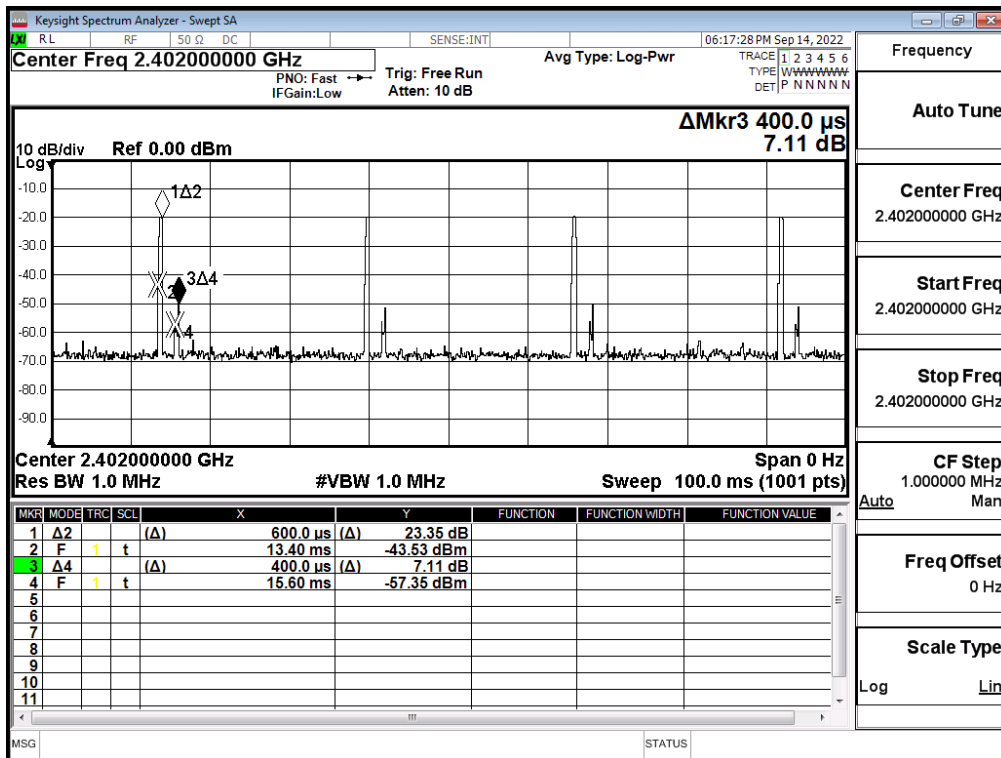
9.5 Measurement Result

9.5.1 Duty Cycle Correction Factor

SRD

Time ON of 100ms:	4.000	ms
Duty Cycle=4ms / 100ms=	0.04	%
Duty Cycle correction factor=20 LOG 0.04=	-27.96	dB

9.5.2 Duty Cycle test plot



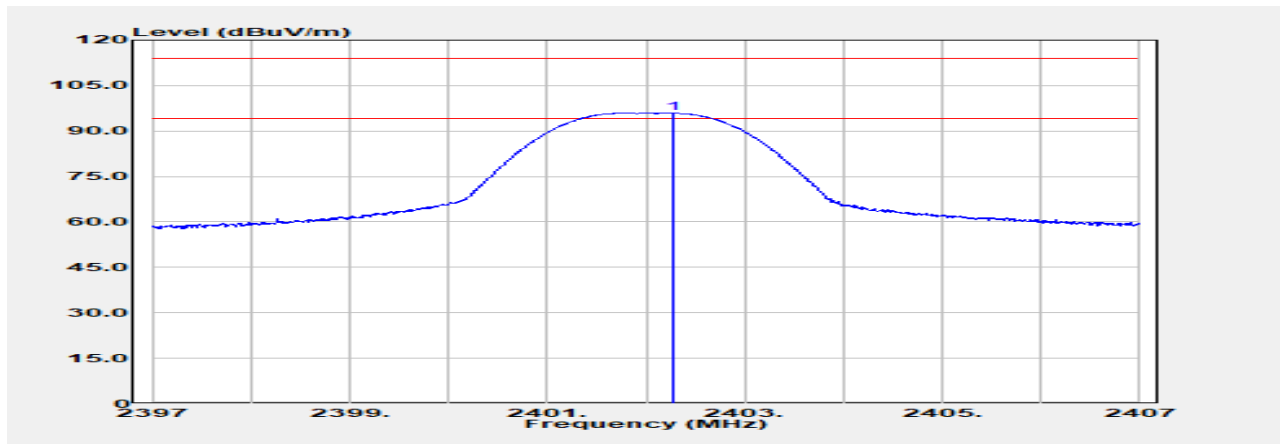
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9.5.3 Field Strength of the Fundamental Signal

Report Number	:TERF2207001118E2	Test Site	:SAC D
Operation Mode	:SRD 2.4G	Test Date	:2022-09-13
Test Frequency	:2402 MHz	Temp./Humi.	:23.4/64
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2402.270	Peak	101.68	-5.83	95.85	114.00	-18.15
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2402.270	Average	95.85	-27.96	67.89	94.00	-26.11

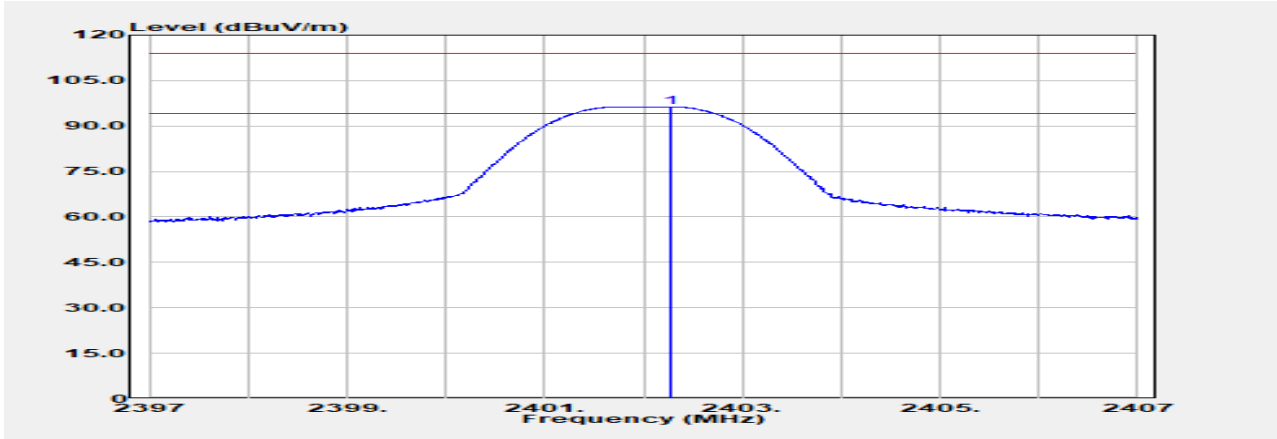
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G
 Test Frequency :2402 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



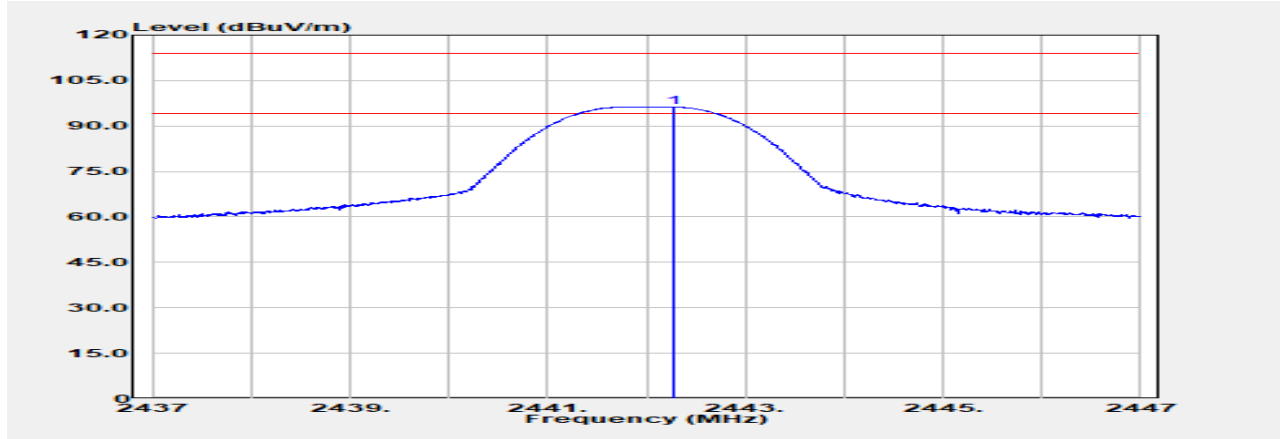
Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2402.270	Peak	102.16	-5.83	96.34	114.00	-17.66
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2402.270	Average	96.34	-27.96	68.38	94.00	-25.62

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Report Number	:TERF2207001118E2	Test Site	:SAC D
Operation Mode	:SRD 2.4G	Test Date	:2022-09-13
Test Frequency	:2442 MHz	Temp./Humi.	:23.4/64
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2442.270	Peak	101.98	-5.76	96.22	114.00	-17.78
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2442.270	Average	96.22	-27.96	68.26	94.00	-25.74

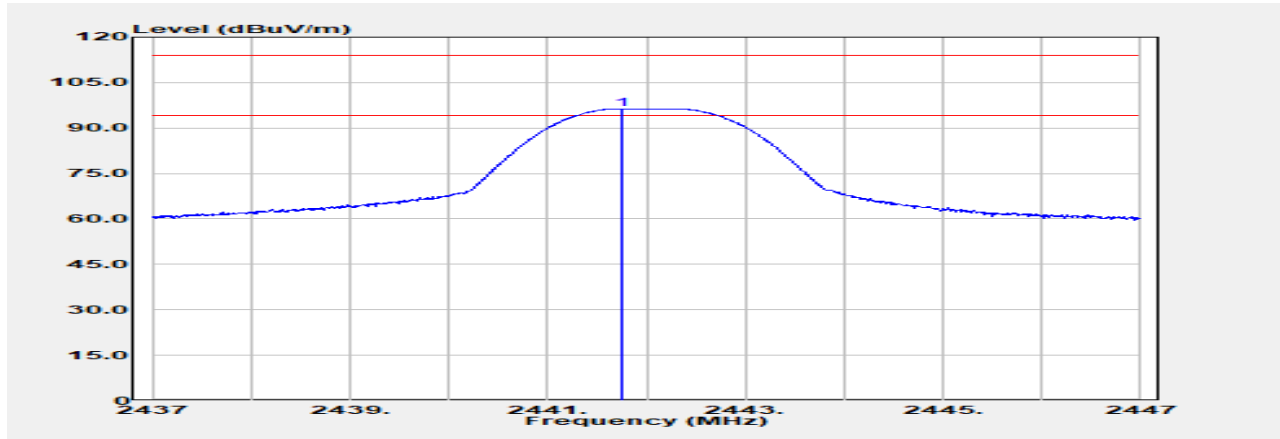
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G
 Test Frequency :2442 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2441.760	Peak	102.13	-5.76	96.37	114.00	-17.63
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2441.760	Average	96.37	-27.96	68.41	94.00	-25.59

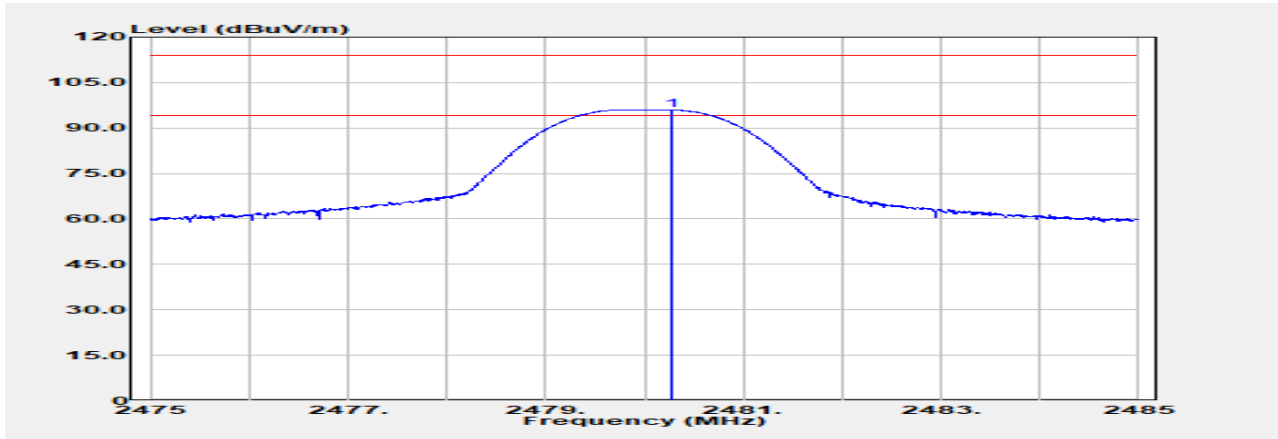
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G
 Test Frequency :2480 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2480.270	Peak	101.83	-5.89	95.94	114.00	-18.06
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2480.270	Average	95.94	-27.96	67.98	94.00	-26.02

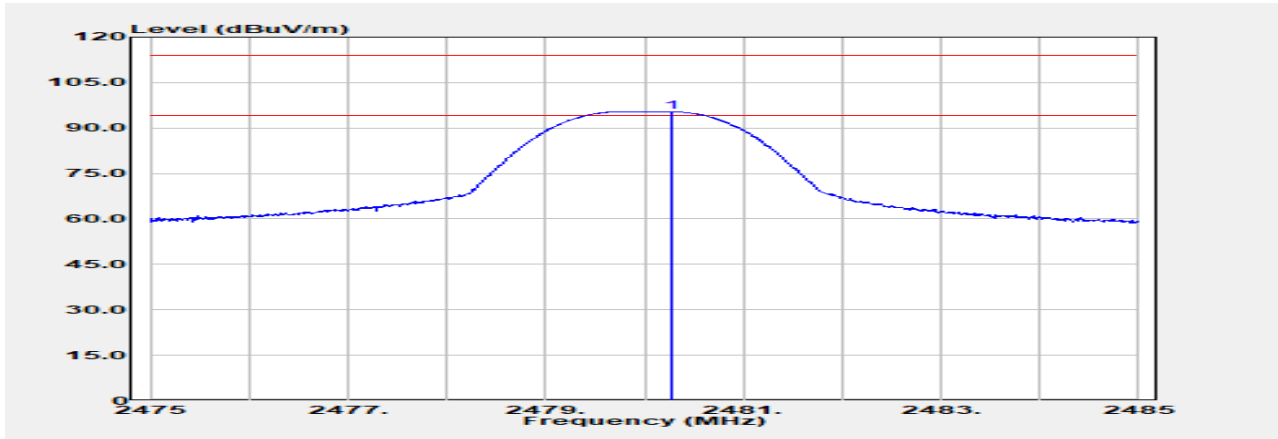
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G
 Test Frequency :2480 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2480.280	Peak	101.25	-5.89	95.36	114.00	-18.64
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2480.280	Average	95.36	-27.96	67.40	94.00	-26.60

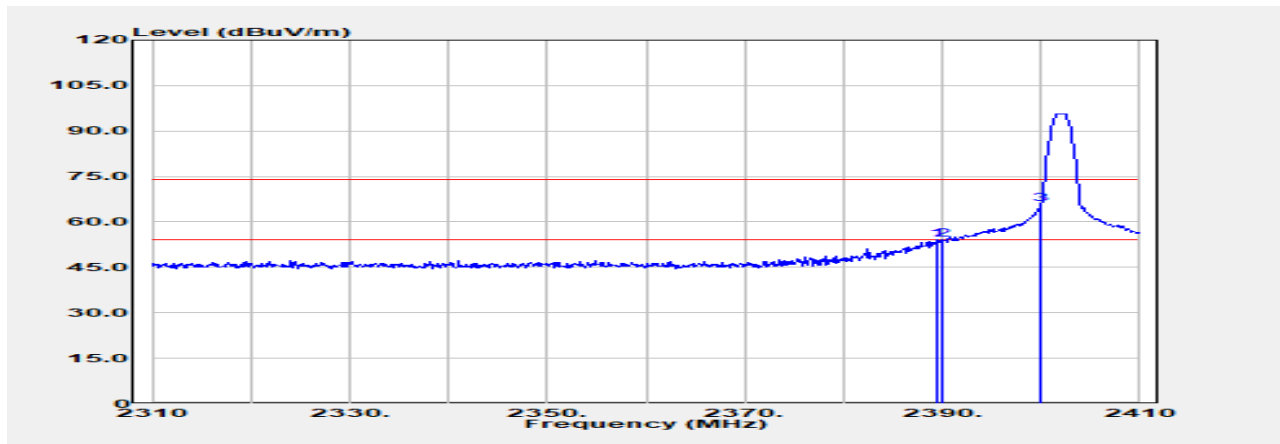
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9.5.4 Restricted bands around fundamental frequency

Report Number	:TERF2207001118E2	Test Site	:SAC D
Operation Mode	:SRD 2.4G	Test Date	:2022-09-13
Test Frequency	:2402 MHz	Temp./Humi.	:23.4/64
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.600	Peak	59.78	-5.69	54.09	74.00	-19.91
2390.000	Peak	59.71	-5.69	54.02	74.00	-19.98
2400.000	Peak	71.57	-5.73	65.84	74.00	-8.16

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2389.600	Average	54.09	-27.96	26.13	54.00	-27.87
2390.000	Average	54.02	-27.96	26.06	54.00	-27.94
2400.000	Average	65.84	-27.96	37.88	54.00	-16.12

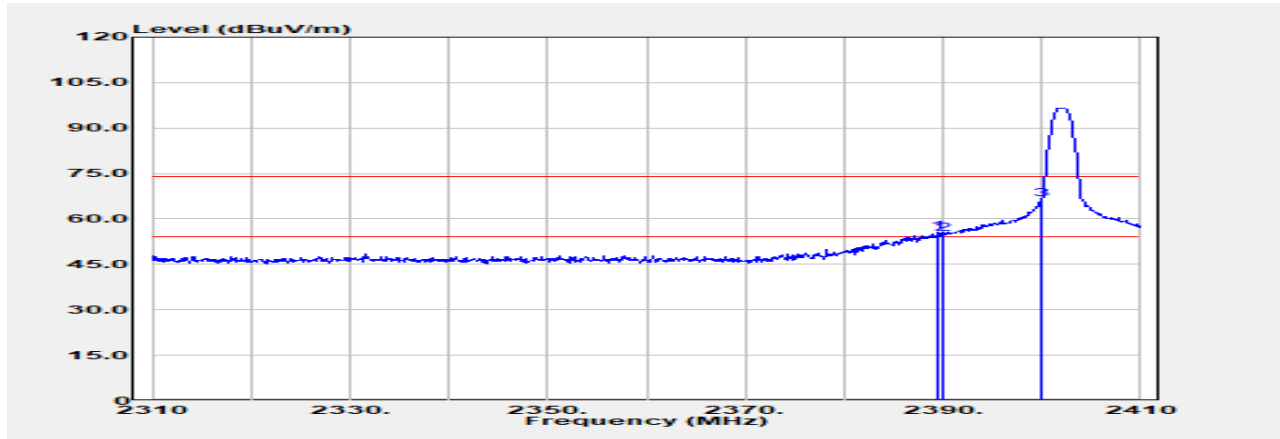
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.500	Peak	61.31	-5.69	55.62	74.00	-18.38
2390.000	Peak	60.67	-5.69	54.98	74.00	-19.02
2400.000	Peak	72.16	-5.73	66.43	74.00	-7.57

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2389.500	Average	55.62	-27.96	27.66	54.00	-26.34
2390.000	Average	54.98	-27.96	27.02	54.00	-26.98
2400.000	Average	66.43	-27.96	38.47	54.00	-15.53

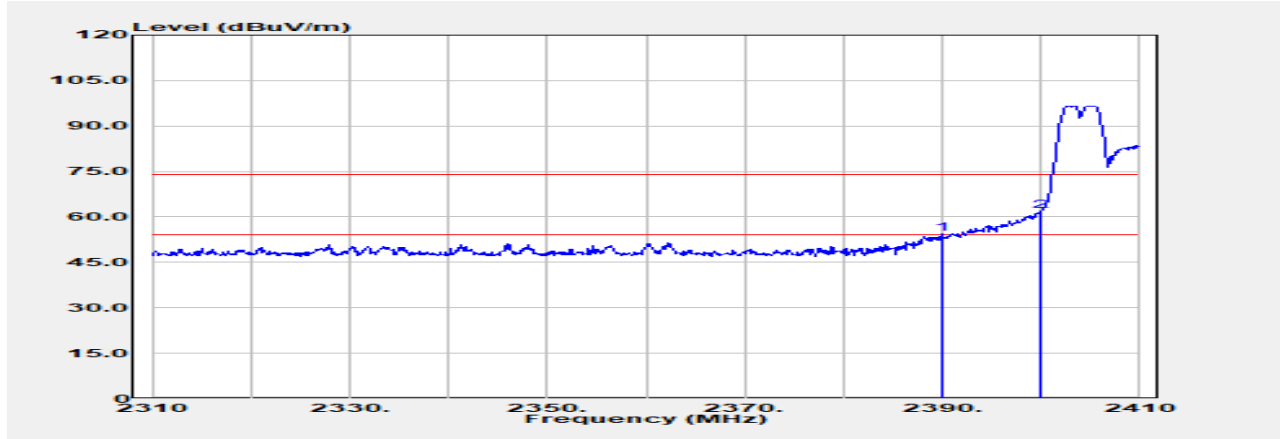
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G HOPPING
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Peak	60.02	-5.69	54.33	74.00	-19.67
2400.000	Peak	67.74	-5.73	62.01	74.00	-11.99

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2390.000	Average	54.33	-27.96	26.37	54.00	-27.63
2400.000	Average	62.01	-27.96	34.05	54.00	-19.95

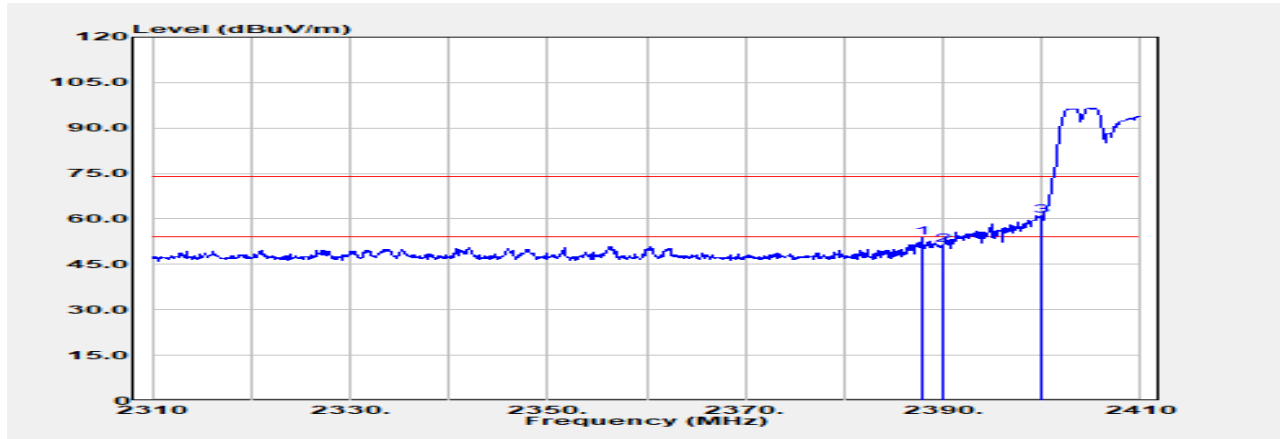
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G HOPPING
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2387.800	Peak	59.44	-5.68	53.76	74.00	-20.24
2390.000	Peak	57.01	-5.69	51.32	74.00	-22.68
2400.000	Peak	66.77	-5.73	61.04	74.00	-12.96

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2387.800	Average	53.76	-27.96	25.80	54.00	-28.20
2390.000	Average	51.32	-27.96	23.36	54.00	-30.64
2400.000	Average	61.04	-27.96	33.08	54.00	-20.92

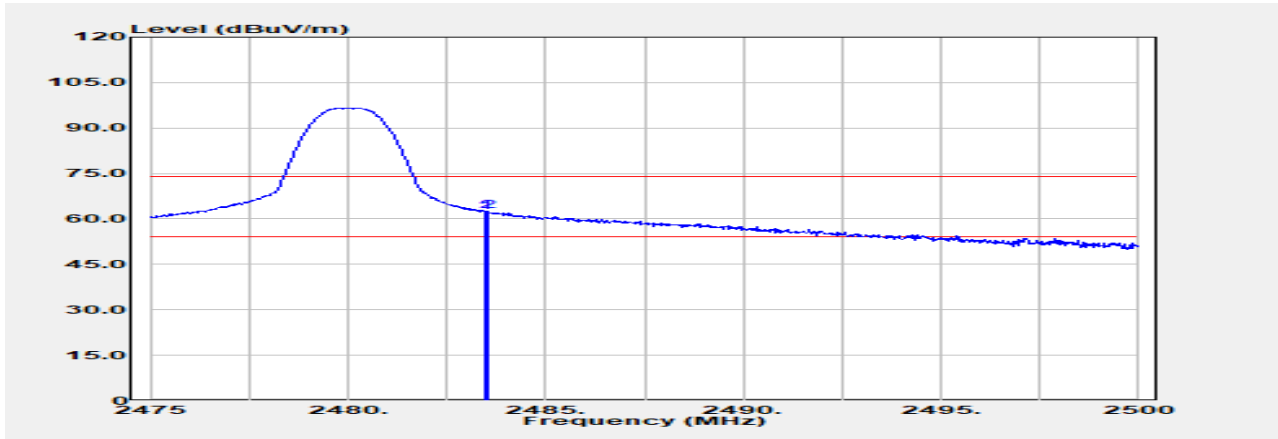
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	68.12	-5.94	62.18	74.00	-11.82
2483.550	Peak	68.39	-5.94	62.45	74.00	-11.55

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	62.18	-27.96	34.22	54.00	-19.78
2483.550	Average	62.45	-27.96	34.49	54.00	-19.51

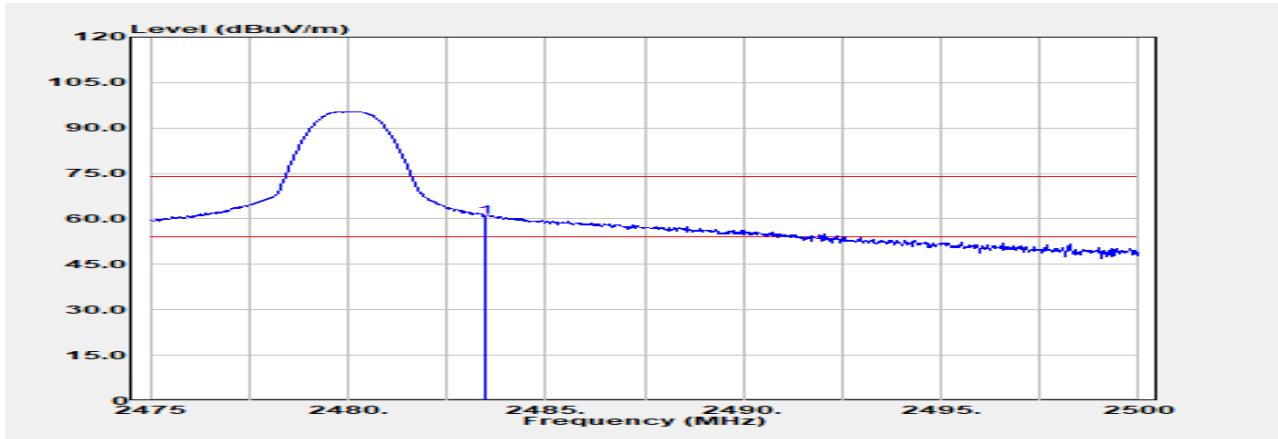
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



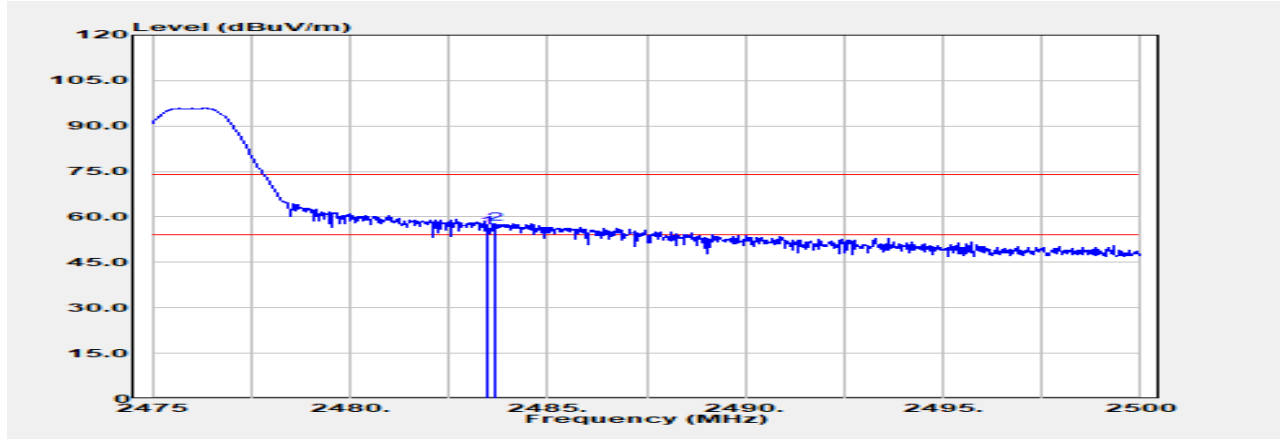
Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	66.72	-5.94	60.78	74.00	-13.22
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	60.78	-27.96	32.82	54.00	-21.18

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Report Number	:TERF2207001118E2	Test Site	:SAC D
Operation Mode	:SRD 2.4G HOPPING	Test Date	:2022-09-13
Test Frequency	:2480 MHz	Temp./Humi.	:23.4/64
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	62.53	-5.94	56.59	74.00	-17.41
2483.675	Peak	63.69	-5.94	57.75	74.00	-16.25

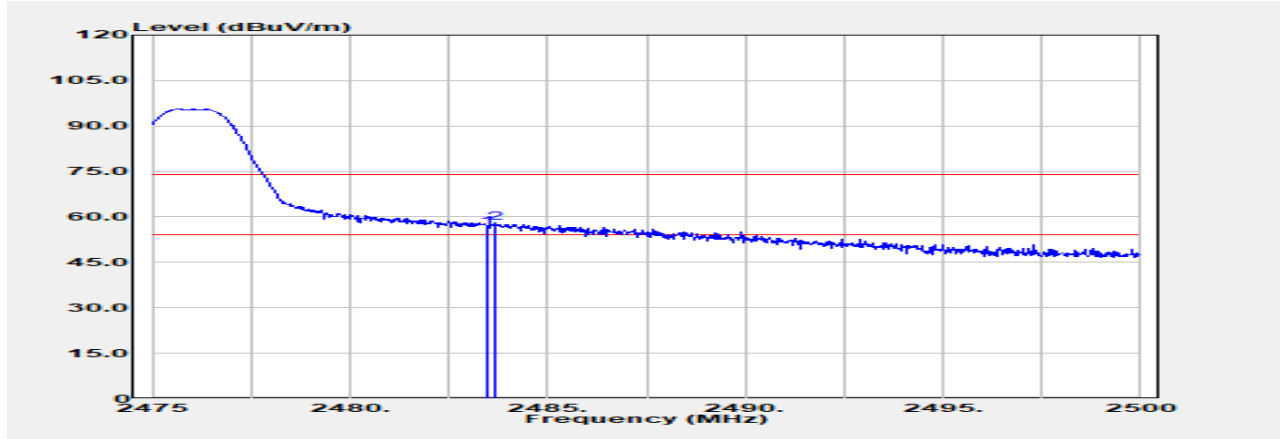
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	56.59	-27.96	28.63	54.00	-25.37
2483.675	Average	57.75	-27.96	29.79	54.00	-24.21

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Report Number :TERF2207001118E2	Test Site :SAC D
Operation Mode :SRD 2.4G HOPPING	Test Date :2022-09-13
Test Frequency :2480 MHz	Temp./Humi. :23.4/64
Test Mode :Bandedge	Antenna Pol. :Horizontal
EUT Pol :E2 Plane	Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	62.43	-5.94	56.49	74.00	-17.51
2483.700	Peak	63.91	-5.94	57.97	74.00	-16.03

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	56.49	-27.96	28.53	54.00	-25.47
2483.700	Average	57.97	-27.96	30.01	54.00	-23.99

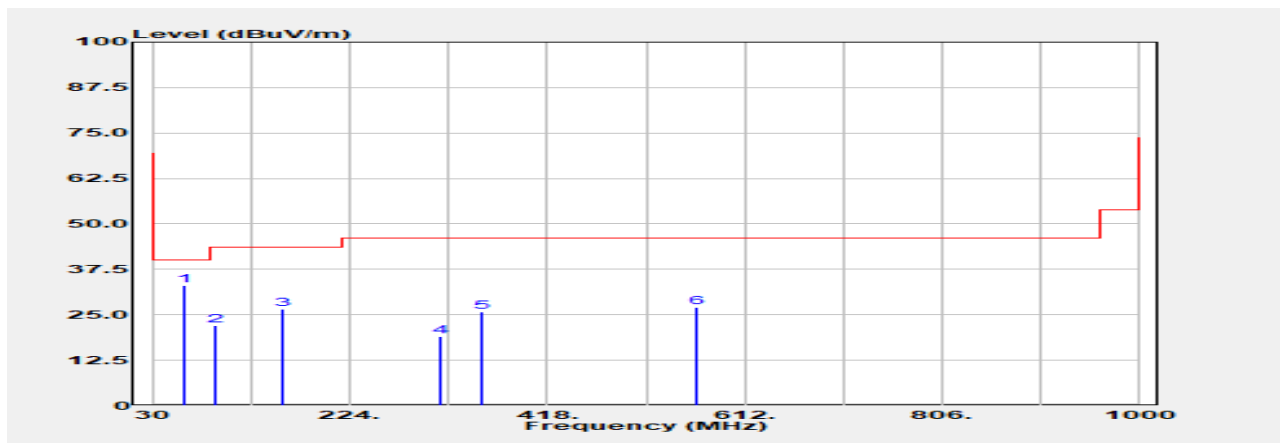
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9.5.5 Radiated Spurious Emission Measurement Result

Report Number	:TERF2207001118E2	Test Site	:SAC D
Operation Mode	:SRD 2.4G	Test Date	:2022-09-27
Test Frequency	:2442 MHz	Temp./Humi.	:23.5/61
Test Mode	:TX	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
61.040	Peak	51.34	-18.14	33.21	40.00	-6.79
93.050	Peak	44.57	-22.48	22.09	43.50	-21.41
158.040	Peak	42.97	-16.29	26.68	43.50	-16.82
312.270	Peak	34.71	-15.55	19.16	46.00	-26.84
353.010	Peak	40.66	-14.79	25.87	46.00	-20.13
565.440	Peak	37.32	-10.37	26.95	46.00	-19.05

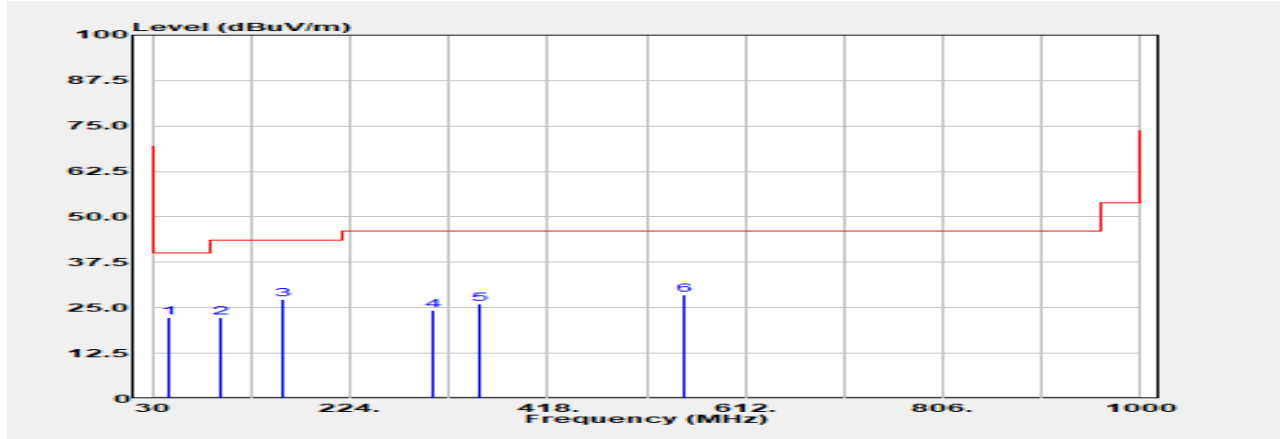
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G
 Test Frequency :2442 MHz
 Test Mode :TX
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-27
 Temp./Humi. :23.5/61
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



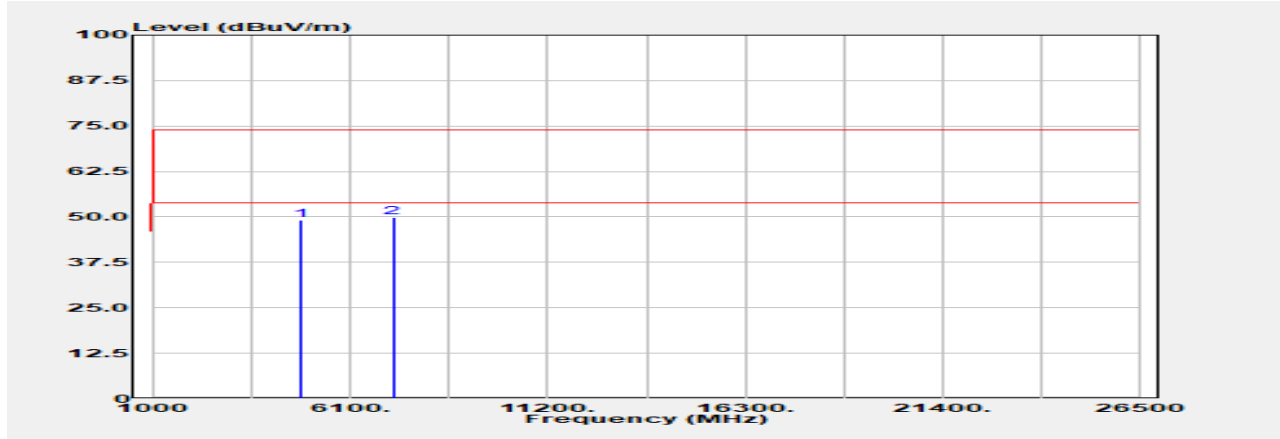
Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
45.520	Peak	40.15	-17.76	22.38	40.00	-17.62
96.930	Peak	44.18	-21.93	22.25	43.50	-21.25
159.010	Peak	43.48	-16.27	27.22	43.50	-16.28
305.480	Peak	40.04	-15.83	24.21	46.00	-21.79
350.100	Peak	40.94	-14.97	25.97	46.00	-20.03
551.860	Peak	39.00	-10.47	28.53	46.00	-17.47

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Report Number :TERF2207001118E2	Test Site :SAC D
Operation Mode :SRD 2.4G	Test Date :2022-09-13
Test Frequency :2402 MHz	Temp./Humi. :23.4/64
Test Mode :TX	Antenna Pol. :Vertical
EUT Pol :E2 Plane	Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	49.48	-0.29	49.19	74.00	-24.81
7206.000	Peak	43.27	6.56	49.84	74.00	-24.16

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	49.19	-27.96	21.23	54.00	-32.77
7206.000	Average	49.84	-27.96	21.88	54.00	-32.12

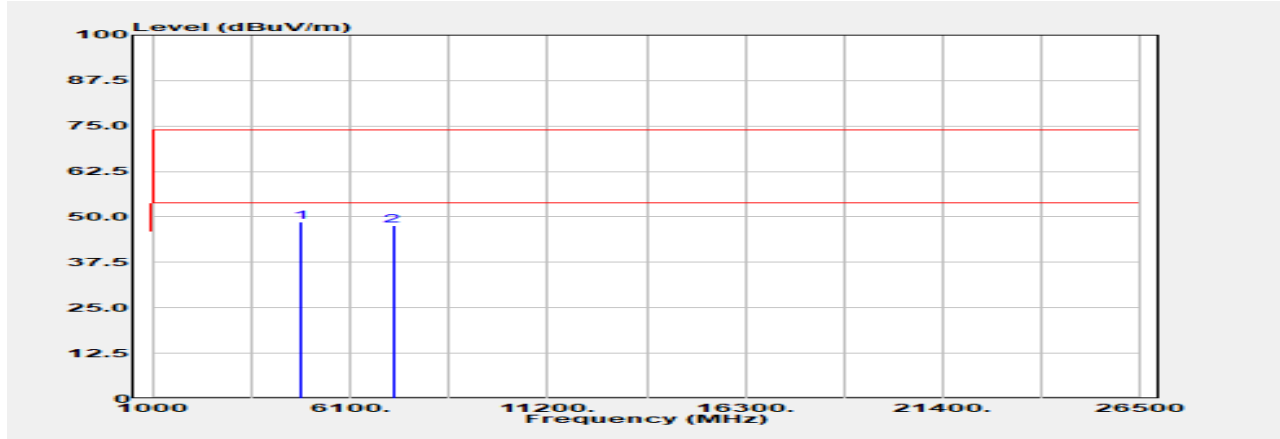
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G
 Test Frequency :2402 MHz
 Test Mode :TX
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	49.03	-0.29	48.74	74.00	-25.26
7206.000	Peak	41.11	6.56	47.67	74.00	-26.33

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	48.74	-27.96	20.78	54.00	-33.22
7206.000	Average	47.67	-27.96	19.71	54.00	-34.29

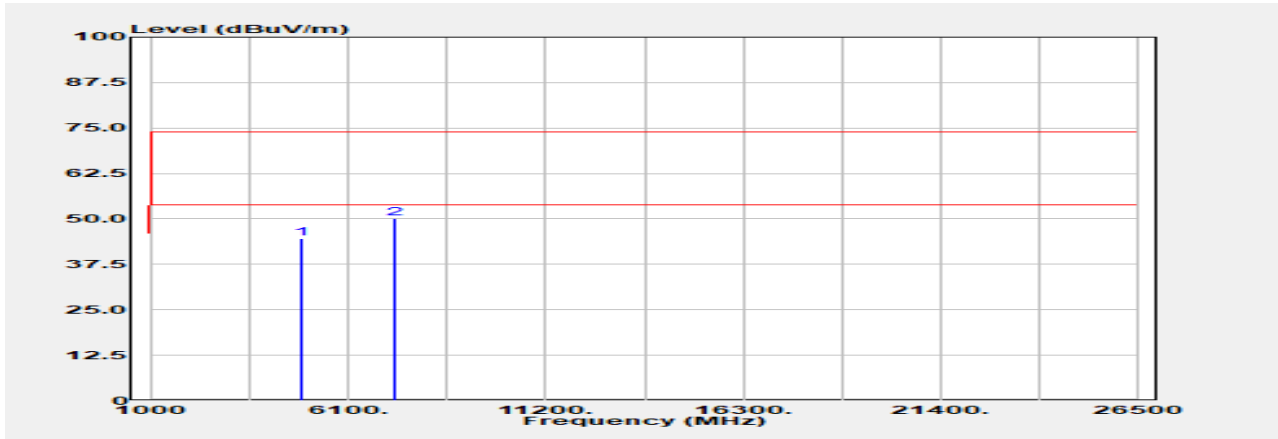
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G
 Test Frequency :2442 MHz
 Test Mode :TX
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Peak	45.01	-0.43	44.58	74.00	-29.42
7326.000	Peak	43.23	7.00	50.23	74.00	-23.77

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4884.000	Average	44.58	-27.96	16.62	54.00	-37.38
7326.000	Average	50.23	-27.96	22.27	54.00	-31.73

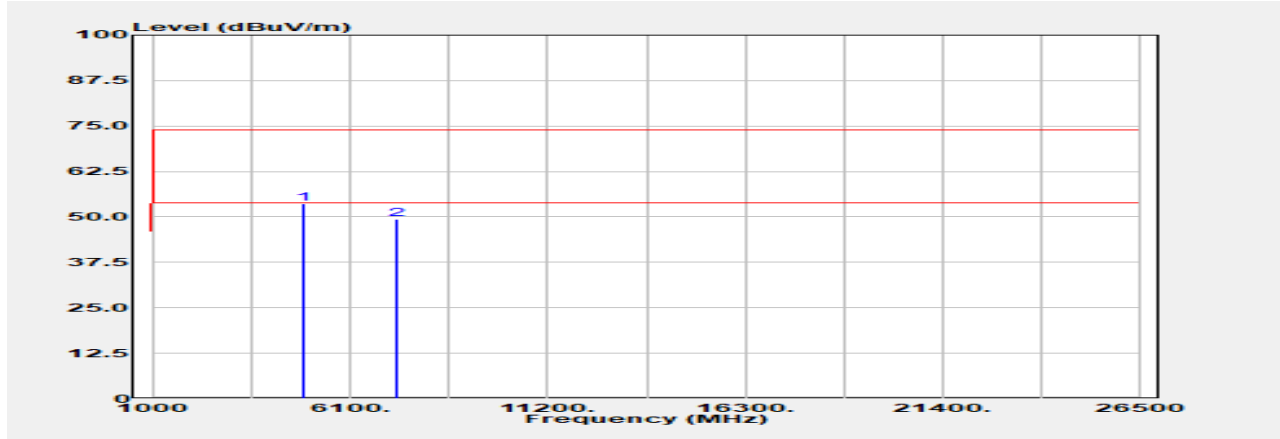
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G
 Test Frequency :2442 MHz
 Test Mode :TX
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Peak	54.13	-0.43	53.70	74.00	-20.30
7326.000	Peak	42.40	7.00	49.40	74.00	-24.60

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4884.000	Average	53.70	-27.96	25.74	54.00	-28.26
7326.000	Average	49.40	-27.96	21.44	54.00	-32.56

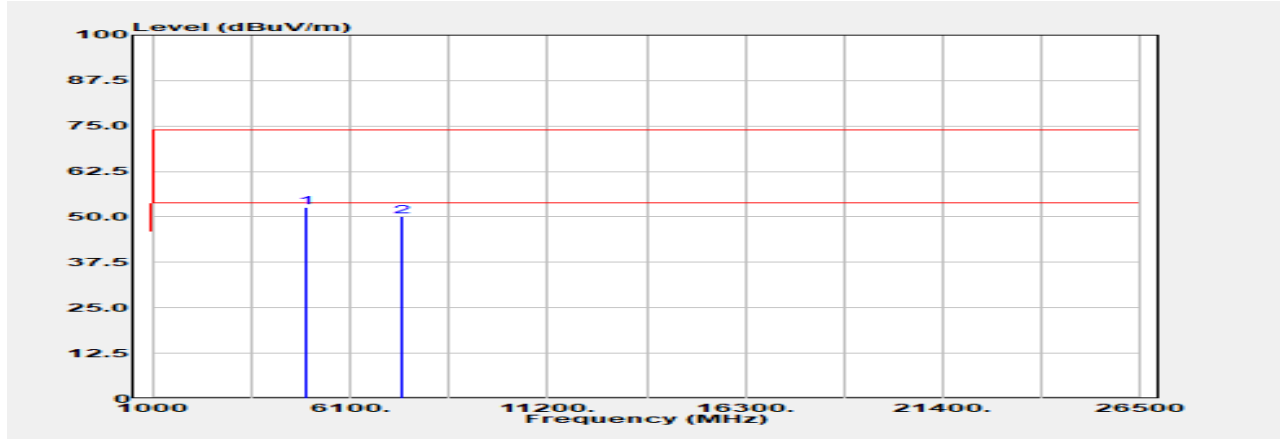
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G
 Test Frequency :2480 MHz
 Test Mode :TX
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	52.06	0.50	52.56	74.00	-21.44
7440.000	Peak	43.48	6.71	50.18	74.00	-23.82

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	52.56	-27.96	24.60	54.00	-29.40
7440.000	Average	50.18	-27.96	22.22	54.00	-31.78

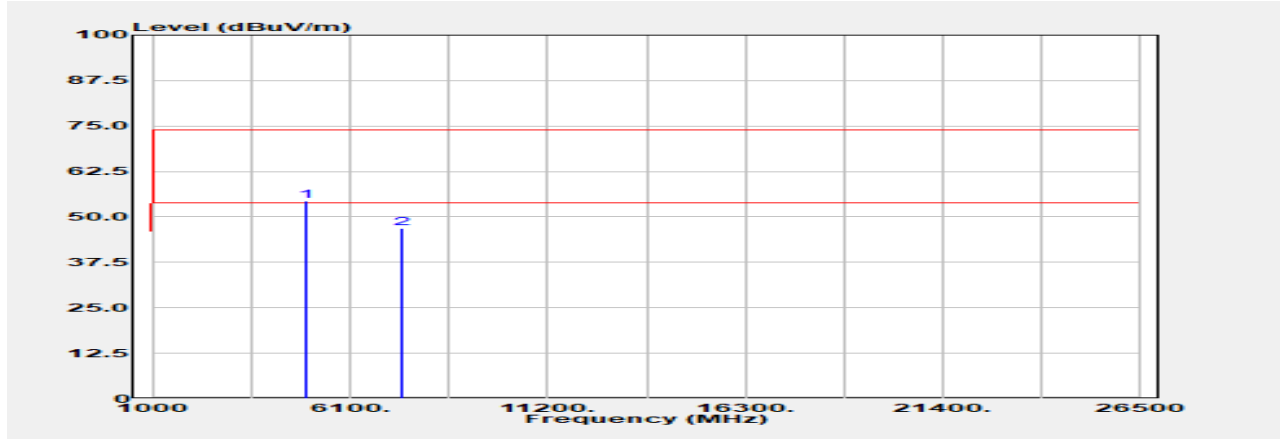
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Report Number :TERF2207001118E2
 Operation Mode :SRD 2.4G
 Test Frequency :2480 MHz
 Test Mode :TX
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-09-13
 Temp./Humi. :23.4/64
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	53.91	0.50	54.41	74.00	-19.59
7440.000	Peak	40.27	6.71	46.97	74.00	-27.03

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	54.41	-27.96	26.45	54.00	-27.55
7440.000	Average	46.97	-27.96	19.01	54.00	-34.99

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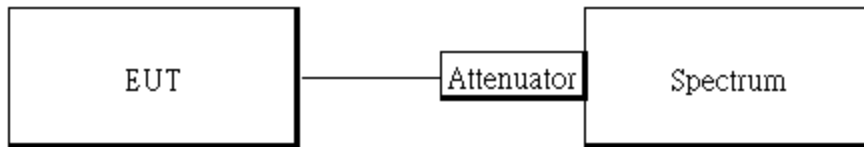
10 EMISSION BANDWIDTH

10.1 Applicable Standard

§2.1049 (h) & 15.215(c)

- (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. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

10.1 Test Setup



10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as
 RBW=1% of the approximate emission bandwidth,
 VBW = 3 times RBW,
 Span= 2 to 5 times of the OBW.
 Sweep=auto
 Detector = Peak, and Max hold
4. Turn on the -20 dB Bandwidth function, max reading.

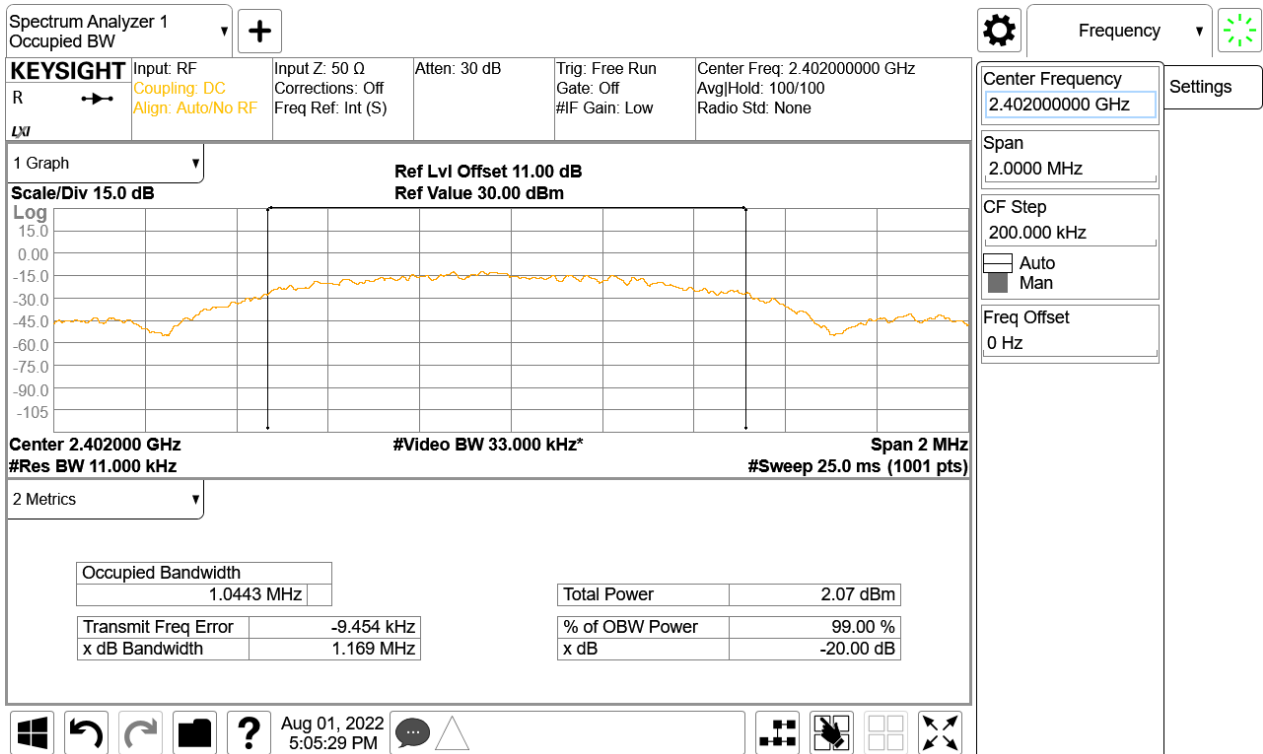
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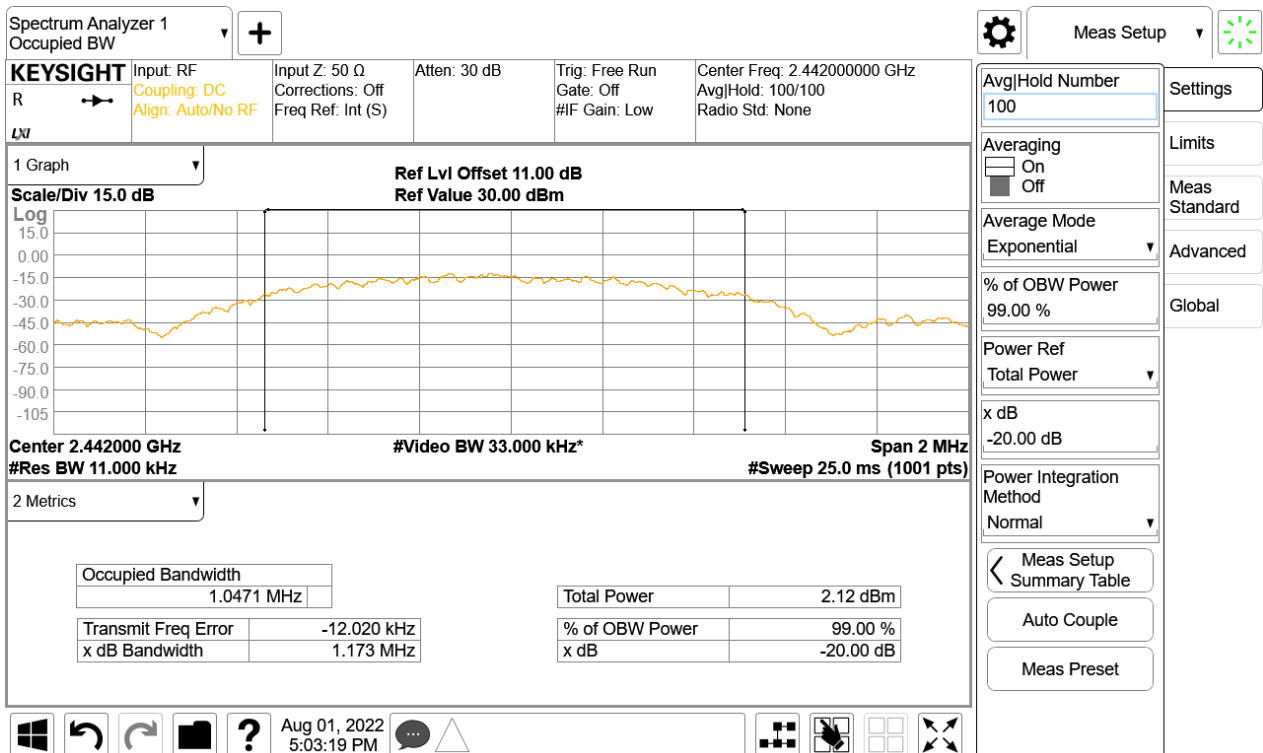
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10.3 Measurement Results:

Low CH00-2402



Mid CH20-2442

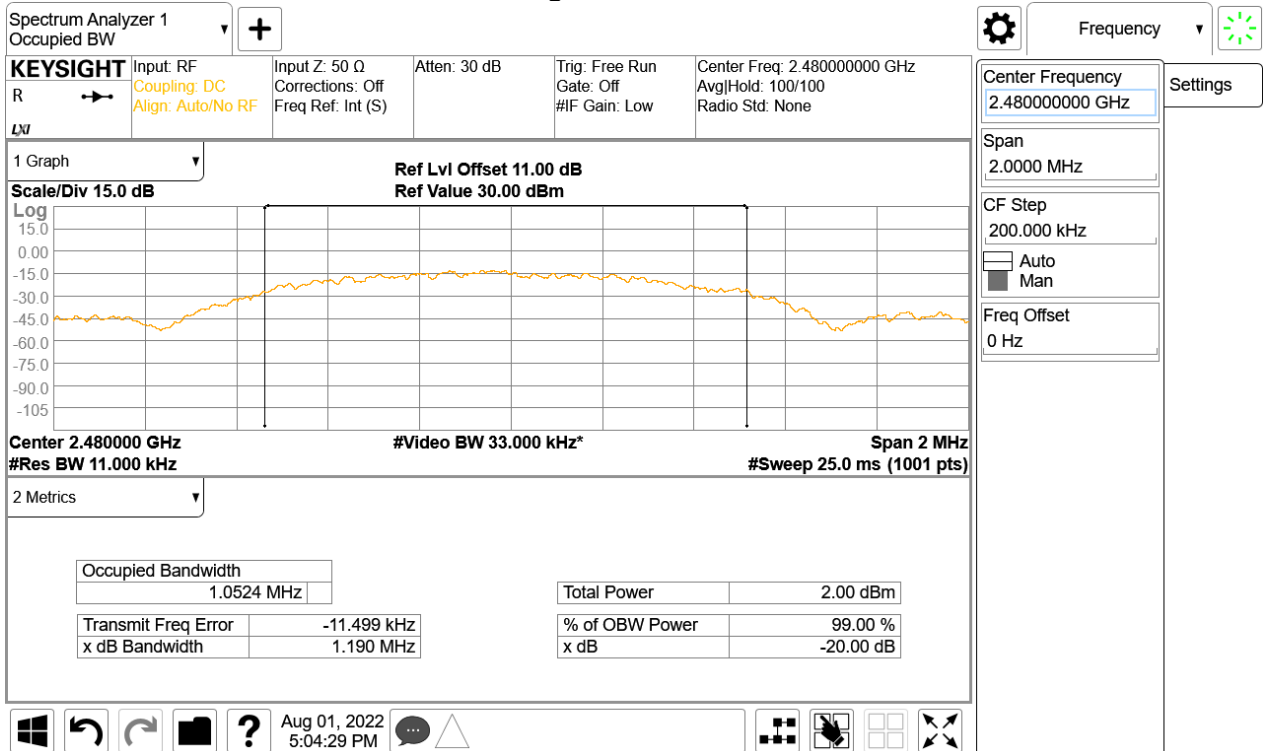


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High CH39-2480



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8 ANTENNA REQUIREMENT

8.1 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.

8.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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