

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Darfon Electronics Corp.
167, Shanying Road, Gueishan, Taoyuan 33341, Taiwan,
R.O.C

Manufacturer: HP Inc.
1501 Page Mill Road, Palo Alto, CA 94304, USA

Product Name: Wireless Numpad

Brand Name: HP

Model No.: TPA-D004K

Model Difference: N/A

Report Number: TERF2308002003E2

FCC ID O62-TPAD004K

Date of EUT Received: August 11, 2023

Date of Test: August 11, 2023~December 29, 2023

Issue Date: December 29, 2023

Approved By _____

Arno Hsieh

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.

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Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2308002003E2	00	Original	Dec. 1, 2023	Candice Li	
TERF2308002003E2	01	Modify Section 9.2, 9.4, 10.3	Dec. 26, 2023	Candice Li	*
TERF2308002003E2	02	Modify Section 7.2, 9.2, 9.3, Duty Factor, 10.2	Dec. 29, 2023	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 Numpad
Brand Name:	HP
Model No.:	TPA-D004K
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	9CH3010001
Power Supply:	3Vdc from Lithium Cell Battery*2
Test Software (Name/Version)	default (push button)

1.2 RF Specification

Radio Technology:	2.4GHz Short Range Radio
Frequency Range:	2405 – 2476MHz
Channel number:	12 channels
Modulation type:	GFSK
Transmit Power:	90.05dB μ V/m@3m

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Chip	Unictron Technologies Corp.	AA055U	2400~2500	1.8

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. 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

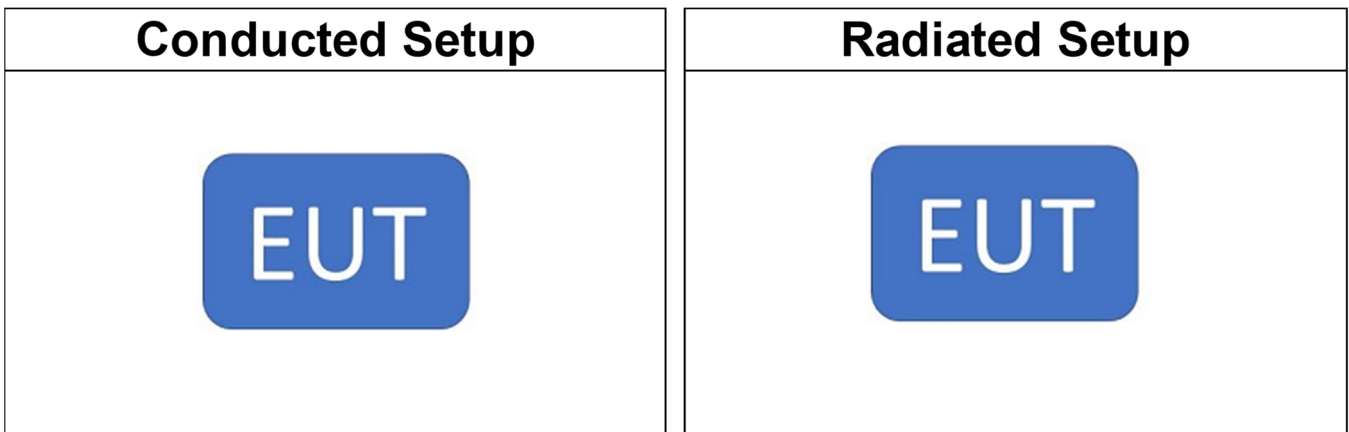
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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.

2.5 Test Configuration



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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Non applicable
§15.205 §15.249(a)(e) §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
0	2405
1	2407
2	2408
3	2442
4	2423
5	2427
6	2447
7	2451
8	2452
9	2473
10	2474
11	2476

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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	DATA RATE (Mbps)	ANTENNA PORT
2.4G	0 to 11	6	GFSK	1	1TX
RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED FREQUENCY	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
2.4G	0 to 11	0, 6, 11	GFSK	1	1TX

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:

MODE	AVAILABLE CHANNEL	TESTED FREQUENCY	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
2.4G	0 to 11	0, 6, 11	GFSK	1	1TX

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6 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.32 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
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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7 MEASUREMENT EQUIPMENT USED

7.1 Emission from AC power line

N/A

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	05/23/2023	05/22/2024
Power Meter	Anritsu	ML2496A	2138002	08/31/2023	08/30/2024
Power Sensor	Anritsu	MA2411B	1911390	08/31/2023	08/30/2024
Power Sensor	Anritsu	MA2411B	1911398	08/31/2023	08/30/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Woken	WATT-218FS-10	RF18	11/16/2022	11/15/2023
Attenuator	Woken	WATT-218FS-10	RF19	11/16/2022	11/15/2023
DC Block	PASTERNAK	PE8210	RF155	11/16/2022	11/15/2023
Attenuator	Woken	WATT-218FS-10	RF18	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF19	11/15/2023	11/14/2024
DC Block	PASTERNAK	PE8210	RF155	11/15/2023	11/14/2024

7.3 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/11/2022	11/10/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/30/2022	12/29/2023
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/12/2023	01/11/2024
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023
3m Site NSA	SGS	966 chamber C	N/A	03/02/2023	03/01/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/29/2023	03/28/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330	980096	11/16/2022	11/15/2023
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/16/2022	11/15/2023
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2022	10/24/2023
Attenuator	Woken	WATT-218FS-10	RF16	11/16/2022	11/15/2023
Coaxial Cable	Huber Suhner	EMC106-SM-SM-9100	150704	11/16/2022	11/15/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/16/2022	11/15/2023
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/16/2022	11/15/2023

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

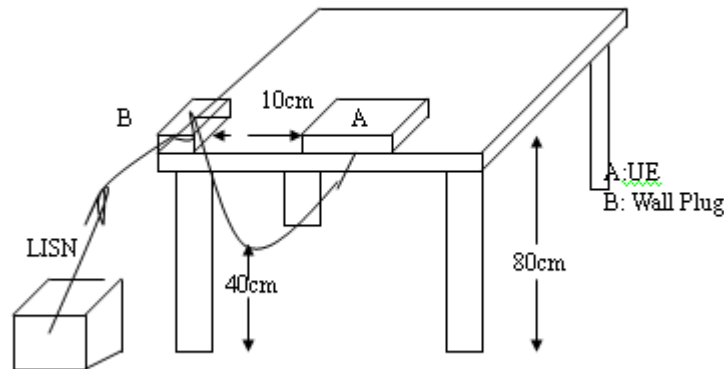
Note

- 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:

N/A; Powered from lithium cell battery.

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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

9.2.1 Duty Cycle

1. Place the EUT on the table and set it in transmitting mode.
2. Set span = Zero
3. RBW = 8MHz, VBW = 8MHz,
4. Detector = Peak

9.2.2 Radiated

1. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
2. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
3. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
4. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
5. Set the spectrum analyzer as RBW=1 MHz, VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
6. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
7. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
8. Repeat above procedures until all frequency measured were complete.

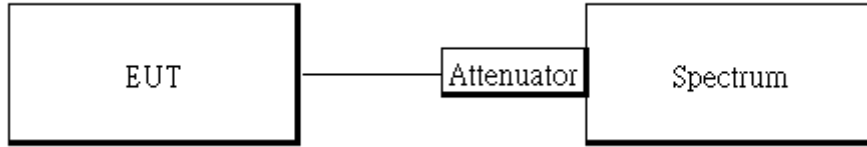
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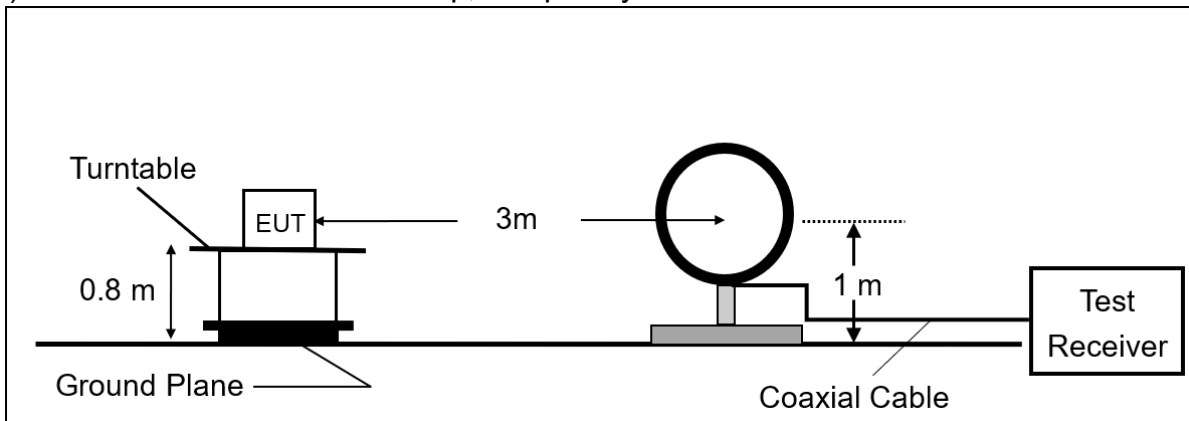
9.3 Test Setup

9.3.1 Duty Cycle

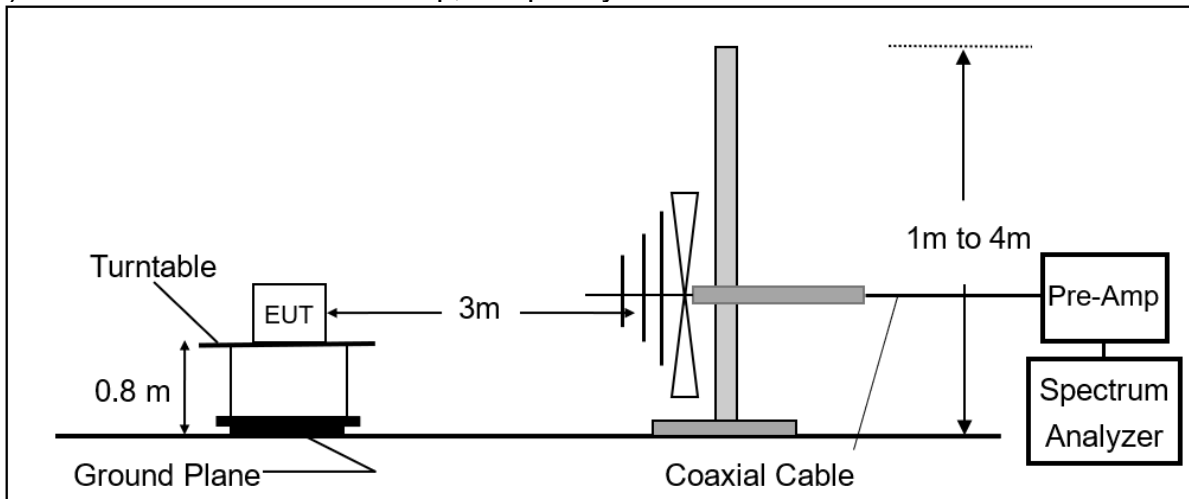


9.3.2 Radiated

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



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

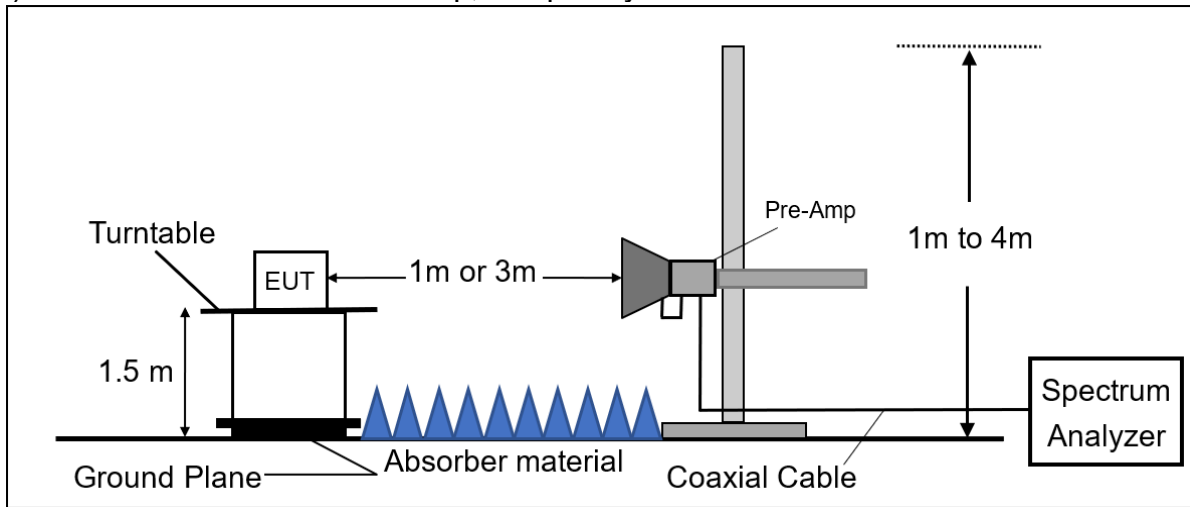


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(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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)

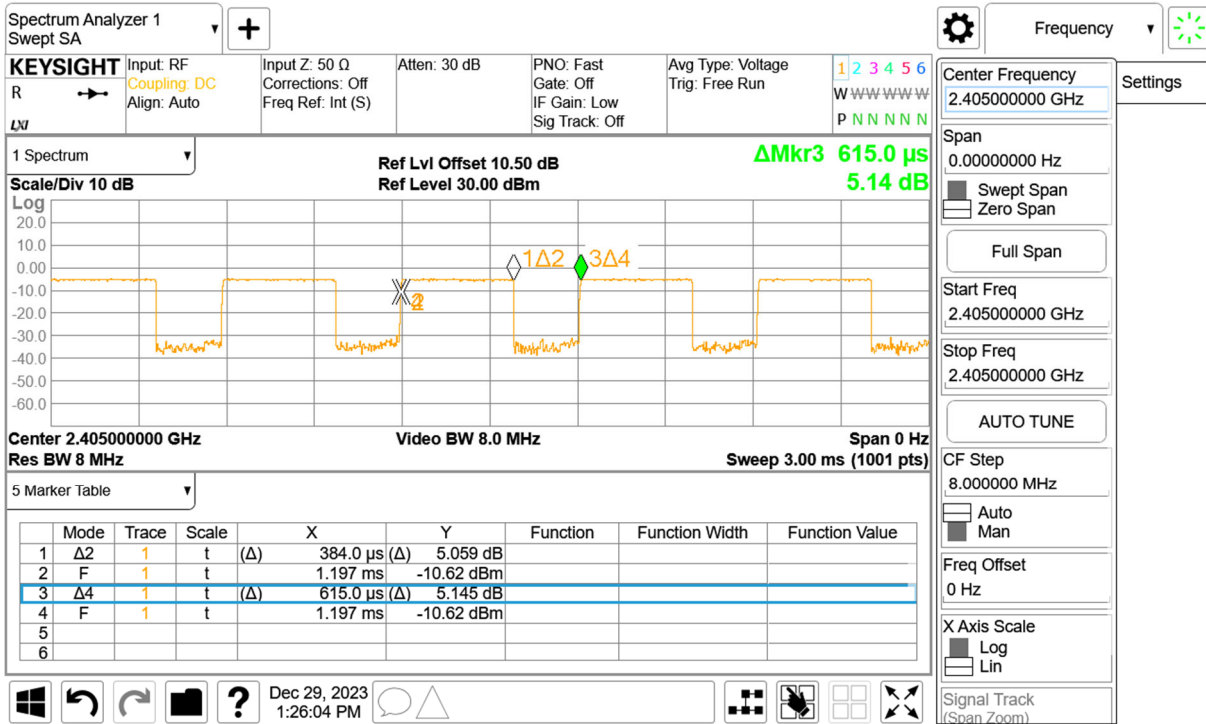
Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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	Duty Cycle (%) = Ton / (Ton+Toff)	1/T (kHz)	VBW setting (kHz)
2.4G	62.44	2.60	3.00

SRD_2.4G_LowCH00-2405



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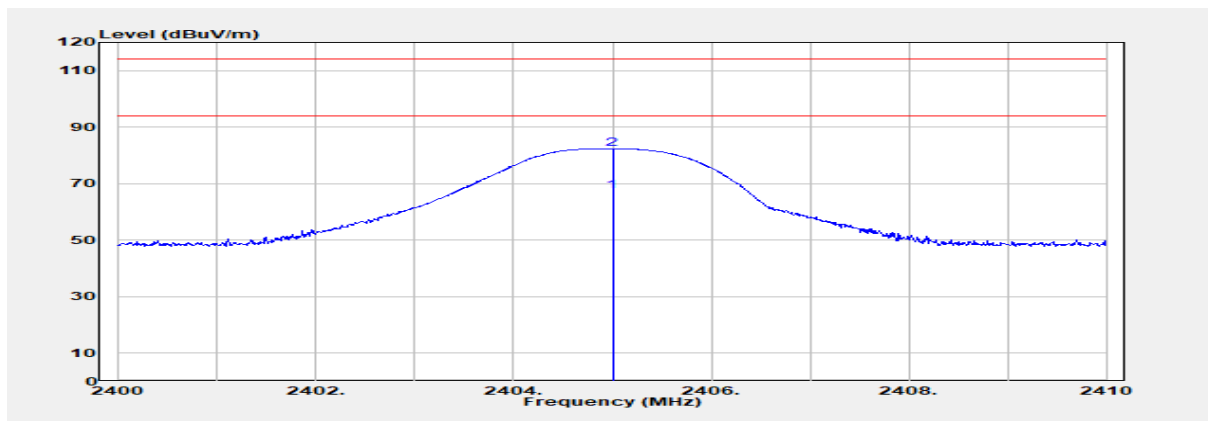
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9.5 Measurement Result

9.5.1 Field Strength of the Fundamental Signal

Report Number	:TERF2308002003E2	Test Site	:SAC C
Operation Mode	:2.4GHz	Test Date	:2023-10-02
Test Frequency	:2405 MHz	Temp./Humi.	:24.2°C/42%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Andy Wang



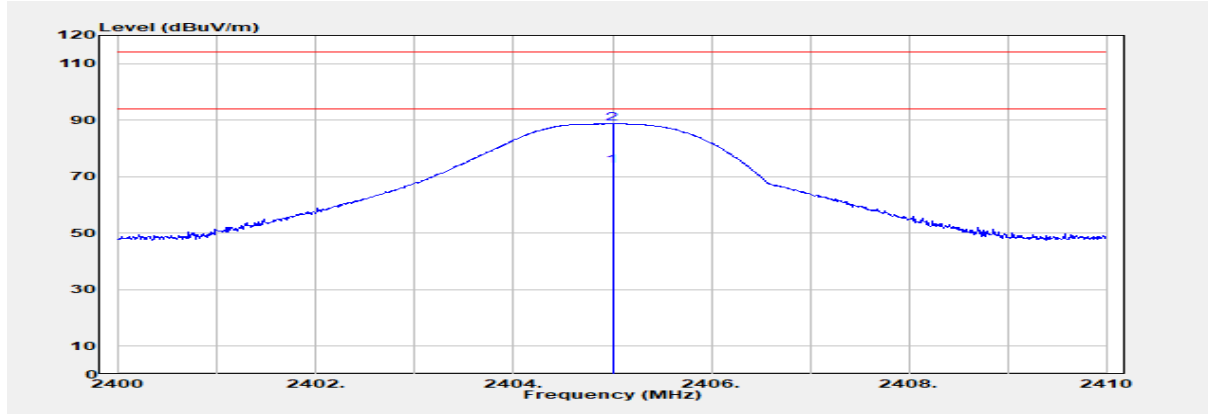
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2405.000	Average	69.40	-2.16	67.24	94.00	-26.76
2405.000	Peak	84.41	-2.16	82.25	114.00	-31.75

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Report Number :TERF2308002003E2
 Operation Mode :2.4GHz
 Test Frequency :2405 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-02
 Temp./Humi. :24.2°C/42%
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2405.000	Average	75.82	-2.16	73.66	94.00	-20.34
2405.000	Peak	90.84	-2.16	88.68	114.00	-25.32

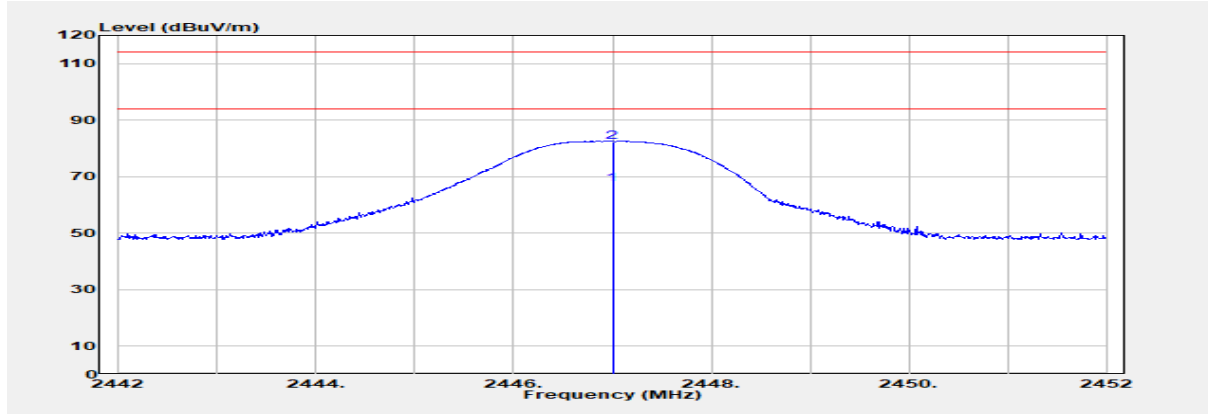
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Report Number :TERF2308002003E2
 Operation Mode :2.4GHz
 Test Frequency :2447 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-02
 Temp./Humi. :24.2°C/42%
 Antenna Pol. :Vertical
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2447.000	Average	69.37	-2.04	67.33	94.00	-26.67
2447.000	Peak	84.46	-2.04	82.43	114.00	-31.57

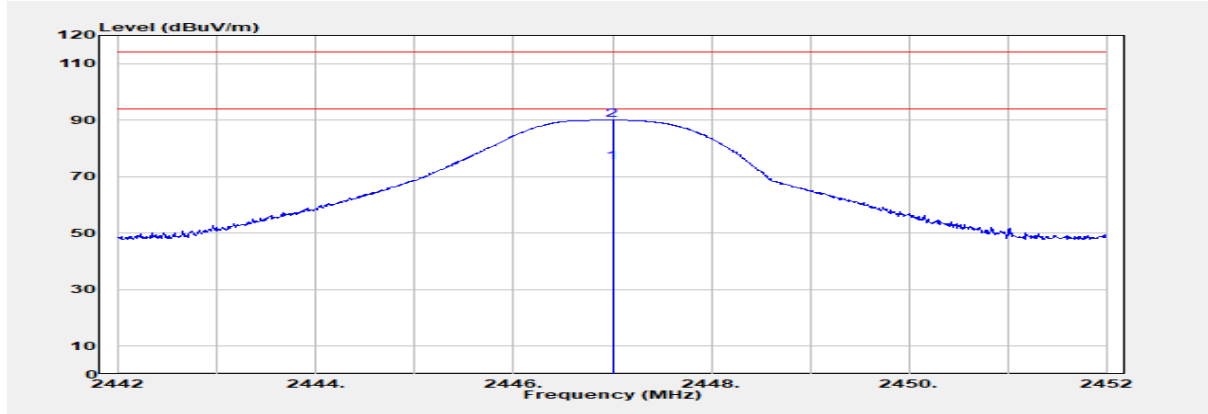
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Report Number :TERF2308002003E2
 Operation Mode :2.4GHz
 Test Frequency :2447 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-02
 Temp./Humi. :24.2°C/42%
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2447.000	Average	77.03	-2.04	74.99	94.00	-19.01
2447.000	Peak	92.09	-2.04	90.05	114.00	-23.95

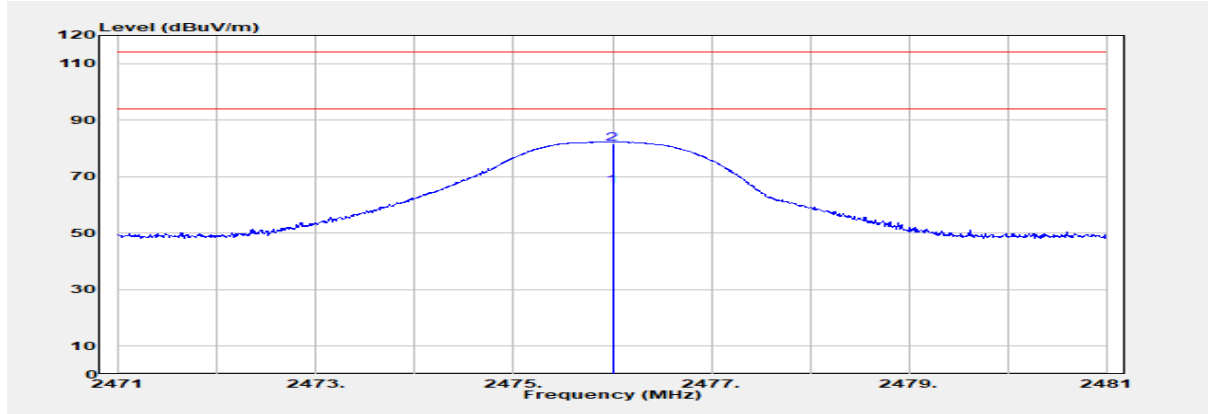
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Report Number :TERF2308002003E2
 Operation Mode :2.4GHz
 Test Frequency :2476 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-02
 Temp./Humi. :24.2°C/42%
 Antenna Pol. :Vertical
 Engineer :Andy Wang



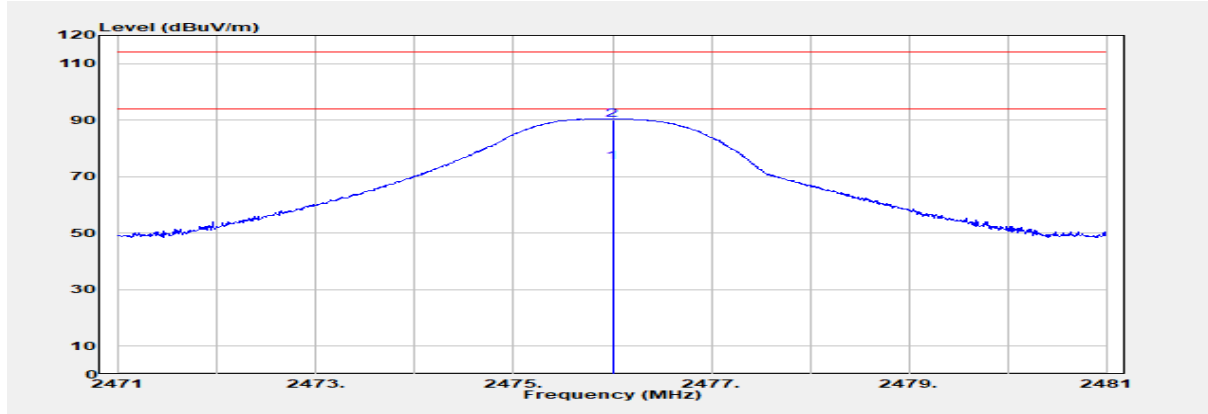
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2476.000	Average	68.73	-2.05	66.68	94.00	-27.32
2476.000	Peak	83.83	-2.05	81.78	114.00	-32.22

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Report Number :TERF2308002003E2
 Operation Mode :2.4GHz
 Test Frequency :2476 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-02
 Temp./Humi. :24.2°C/42%
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2476.000	Average	77.10	-2.05	75.05	94.00	-18.95
2476.000	Peak	92.09	-2.05	90.04	114.00	-23.96

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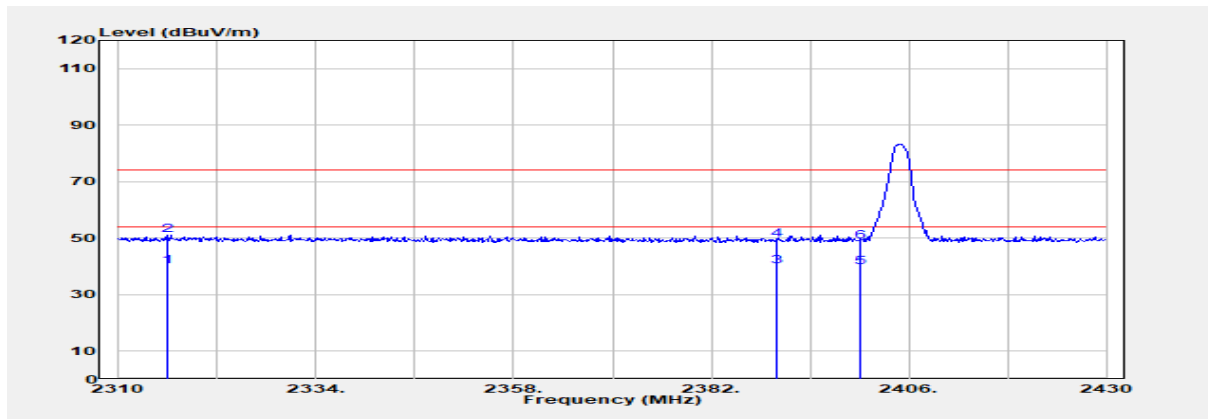
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9.5.2 Restricted bands around fundamental frequency

Report Number :TERF2308002003E2
 Operation Mode :2.4GHz
 Test Frequency :2405 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-02
 Temp./Humi. :24.2°C/42%
 Antenna Pol. :Vertical
 Engineer :Andy Wang



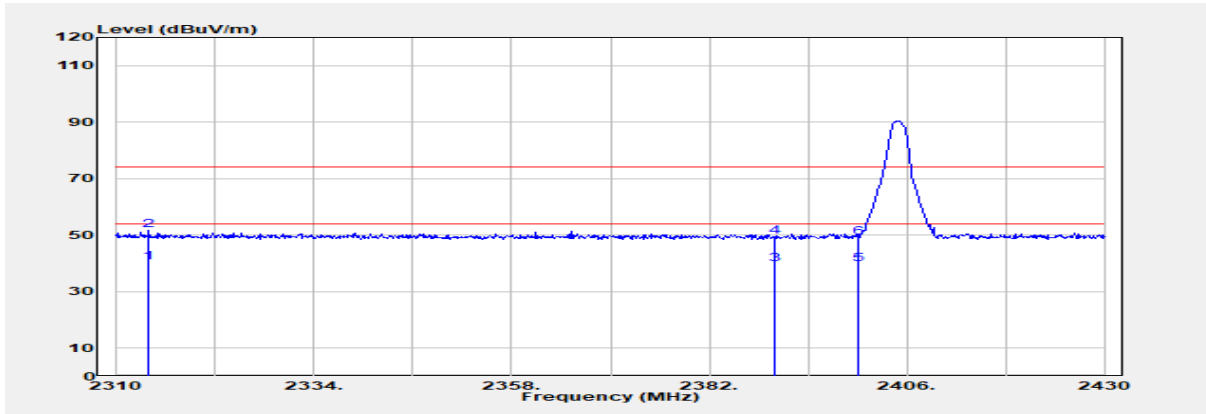
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2315.880	Average	41.97	-1.88	40.10	54.00	-13.90
2315.880	Peak	52.94	-1.88	51.06	74.00	-22.94
2390.000	Average	42.19	-2.15	40.04	54.00	-13.96
2390.000	Peak	51.47	-2.15	49.32	74.00	-24.68
2400.000	Average	41.90	-2.17	39.73	54.00	-14.27
2400.000	Peak	51.10	-2.17	48.93	74.00	-25.07

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Report Number :TERF2308002003E2
 Operation Mode :2.4GHz
 Test Frequency :2405 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-02
 Temp./Humi. :24.2°C/42%
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2313.840	Average	42.10	-1.86	40.24	54.00	-13.76
2313.840	Peak	53.42	-1.86	51.55	74.00	-22.45
2390.000	Average	41.96	-2.15	39.81	54.00	-14.19
2390.000	Peak	51.74	-2.15	49.58	74.00	-24.42
2400.000	Average	41.69	-2.17	39.52	54.00	-14.48
2400.000	Peak	51.21	-2.17	49.04	74.00	-24.96

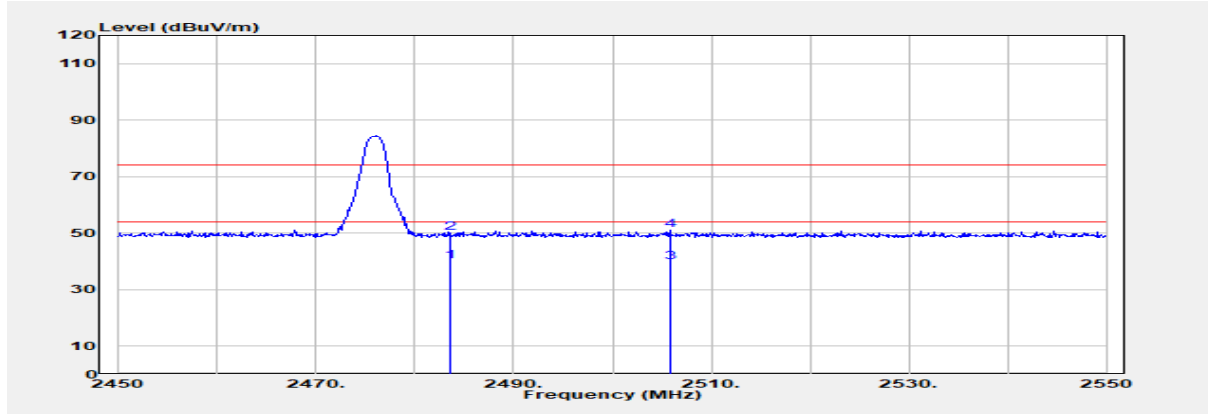
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Report Number :TERF2308002003E2
 Operation Mode :2.4GHz
 Test Frequency :2476 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-02
 Temp./Humi. :24.2°C/42%
 Antenna Pol. :Vertical
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	42.08	-2.06	40.02	54.00	-13.98
2483.500	Peak	52.20	-2.06	50.14	74.00	-23.86
2505.800	Average	41.84	-2.09	39.74	54.00	-14.26
2505.800	Peak	53.06	-2.09	50.97	74.00	-23.03

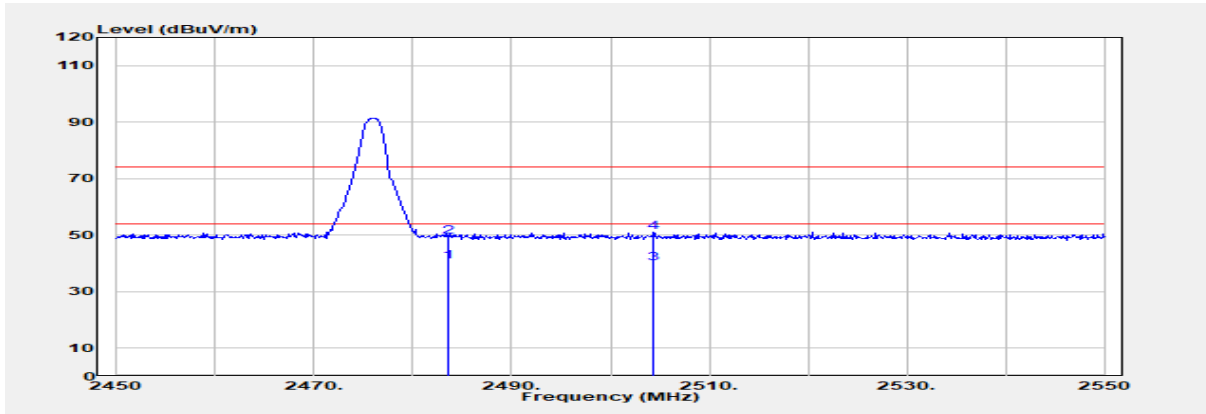
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Report Number :TERF2308002003E2
 Operation Mode :2.4GHz
 Test Frequency :2476 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-02
 Temp./Humi. :24.2°C/42%
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	42.74	-2.06	40.68	54.00	-13.32
2483.500	Peak	51.64	-2.06	49.59	74.00	-24.41
2504.400	Average	42.04	-2.09	39.95	54.00	-14.05
2504.400	Peak	53.11	-2.09	51.02	74.00	-22.98

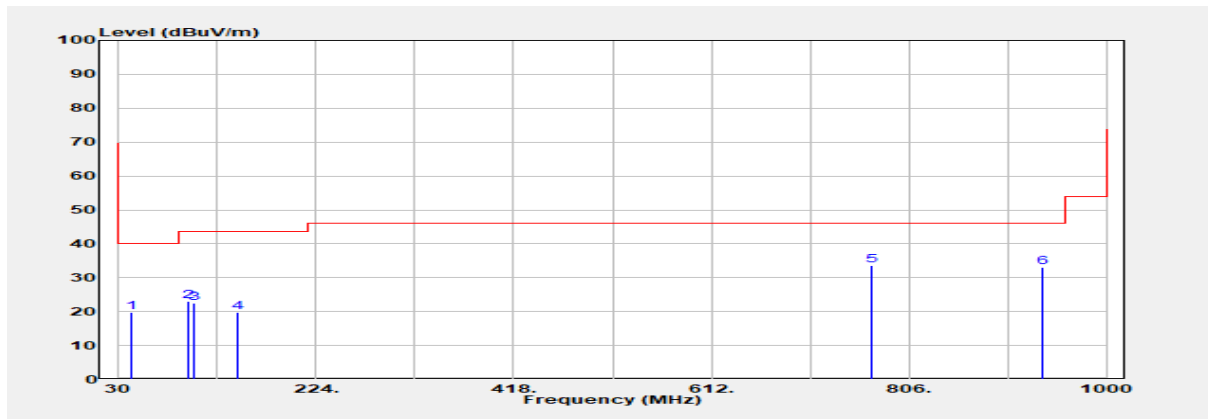
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9.5.3 Radiated Spurious Emission Measurement Result

Report Number	:TERF2308002003E2	Test Site	:SAC C
Operation Mode	:2.4G	Test Date	:2023-10-03
Test Frequency	:2447 MHz	Temp./Humi.	:20.6°C/52%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Andy Wang



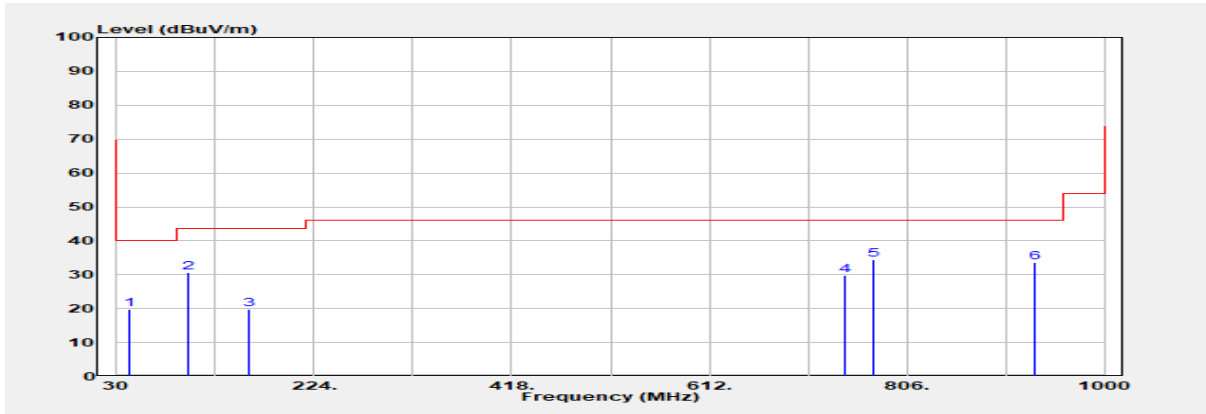
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
42.610	Peak	33.60	-13.84	19.76	40.00	-20.24
97.900	Peak	41.30	-18.29	23.00	43.50	-20.50
103.720	Peak	39.91	-17.33	22.58	43.50	-20.92
146.400	Peak	33.24	-13.39	19.85	43.50	-23.65
769.140	Peak	34.82	-1.14	33.68	46.00	-12.32
937.920	Peak	32.47	0.61	33.08	46.00	-12.92

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Report Number :TERF2308002003E2
 Operation Mode :2.4G
 Test Frequency :2447 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-03
 Temp./Humi. :20.6°C/52%
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



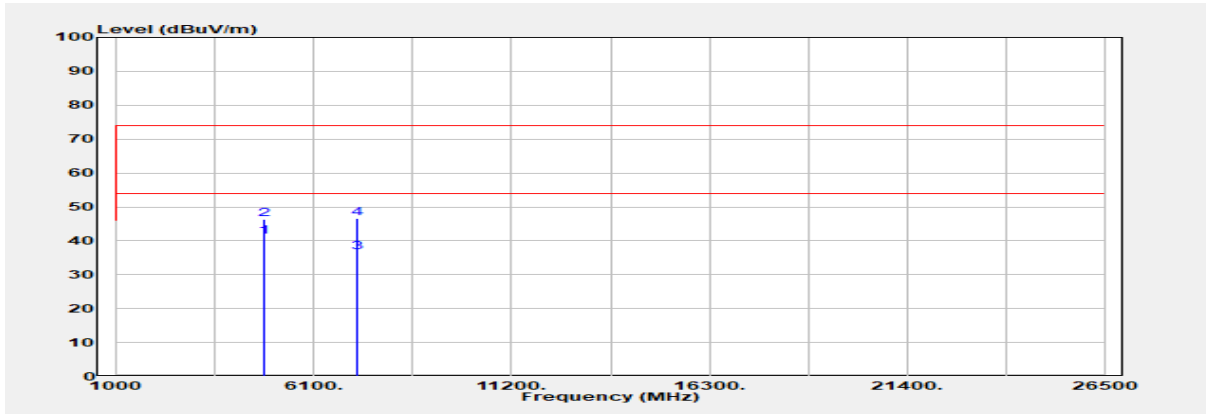
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
42.610	Peak	33.74	-13.84	19.90	40.00	-20.10
100.810	Peak	48.36	-17.77	30.59	43.50	-12.91
159.980	Peak	33.02	-13.11	19.92	43.50	-23.58
744.890	Peak	32.75	-2.94	29.81	46.00	-16.19
773.990	Peak	35.68	-1.28	34.41	46.00	-11.59
931.130	Peak	32.57	0.97	33.54	46.00	-12.46

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Report Number :TERF2308002003E2
 Operation Mode :2.4G
 Test Frequency :2405 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-02
 Temp./Humi. :24.2°C/42%
 Antenna Pol. :Vertical
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4810.000	Average	37.92	3.32	41.24	54.00	-12.76
4810.000	Peak	42.89	3.32	46.21	74.00	-27.79
7215.000	Average	27.12	9.50	36.62	54.00	-17.38
7215.000	Peak	37.21	9.50	46.71	74.00	-27.29

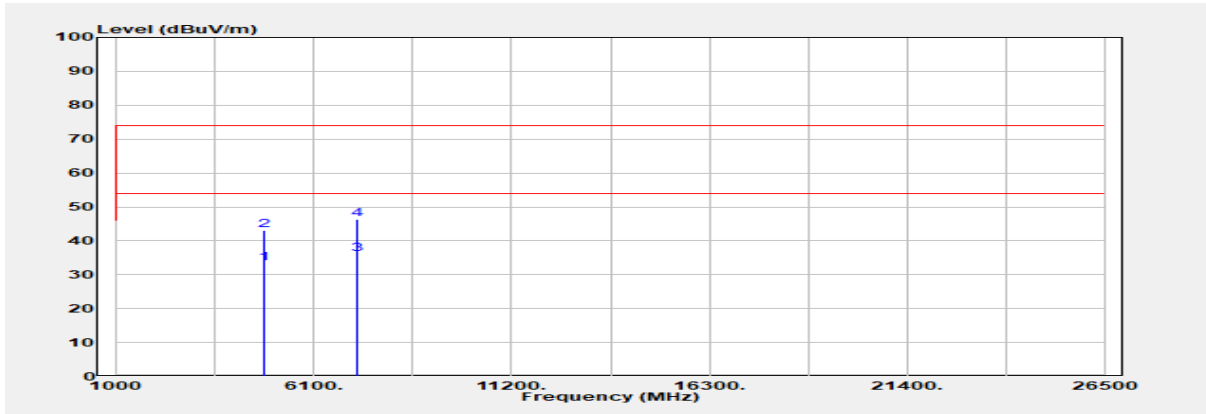
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Report Number :TERF2308002003E2
 Operation Mode :2.4G
 Test Frequency :2405 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-02
 Temp./Humi. :24.2°C/42%
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4810.000	Average	30.13	3.32	33.45	54.00	-20.55
4810.000	Peak	39.67	3.32	42.99	74.00	-31.01
7215.000	Average	26.65	9.50	36.15	54.00	-17.85
7215.000	Peak	36.80	9.50	46.31	74.00	-27.69

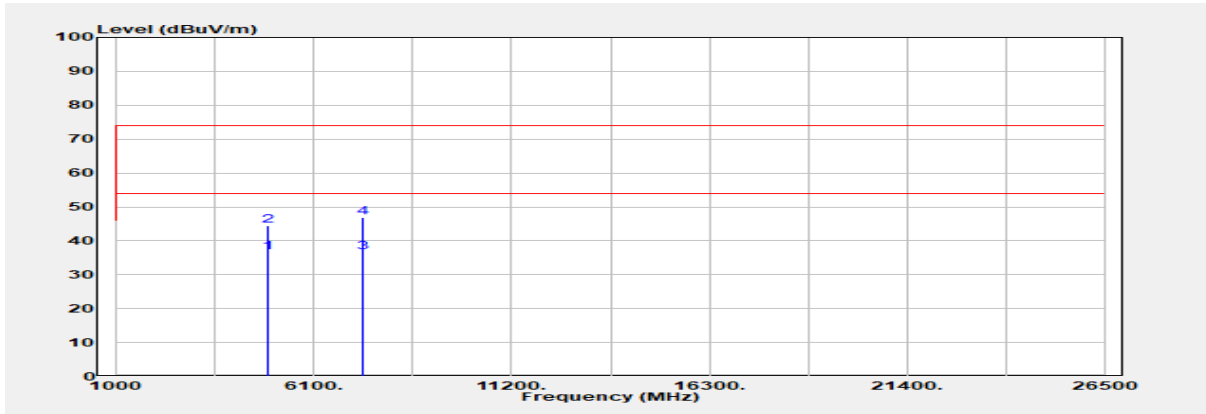
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Report Number :TERF2308002003E2
 Operation Mode :2.4G
 Test Frequency :2447 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-03
 Temp./Humi. :20.6°C/52%
 Antenna Pol. :Vertical
 Engineer :Andy Wang



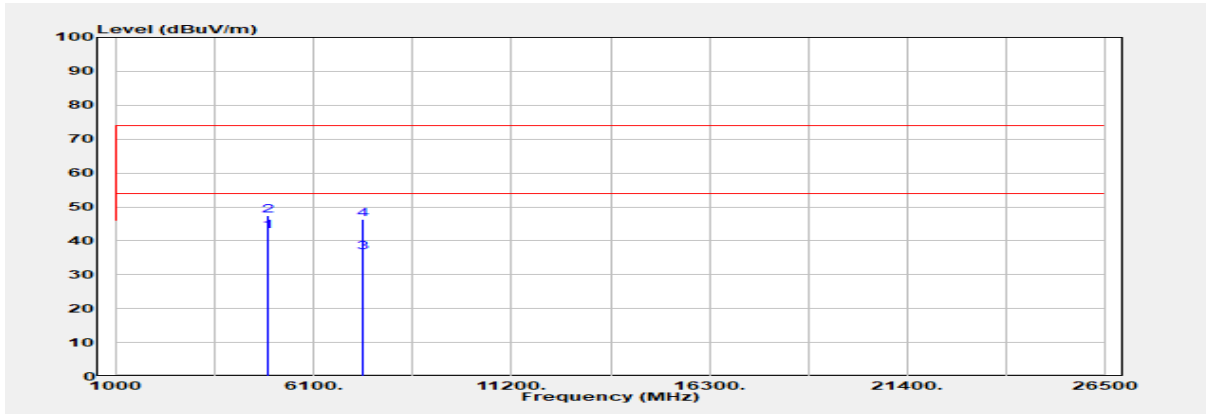
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4894.000	Average	33.44	3.22	36.66	54.00	-17.34
4894.000	Peak	41.10	3.22	44.32	74.00	-29.68
7341.000	Average	26.00	10.49	36.49	54.00	-17.51
7341.000	Peak	36.42	10.49	46.91	74.00	-27.09

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Report Number :TERF2308002003E2
 Operation Mode :2.4G
 Test Frequency :2447 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-03
 Temp./Humi. :20.6°C/52%
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4894.000	Average	39.67	3.22	42.89	54.00	-11.11
4894.000	Peak	44.18	3.22	47.40	74.00	-26.60
7341.000	Average	25.97	10.49	36.46	54.00	-17.54
7341.000	Peak	35.80	10.49	46.29	74.00	-27.71

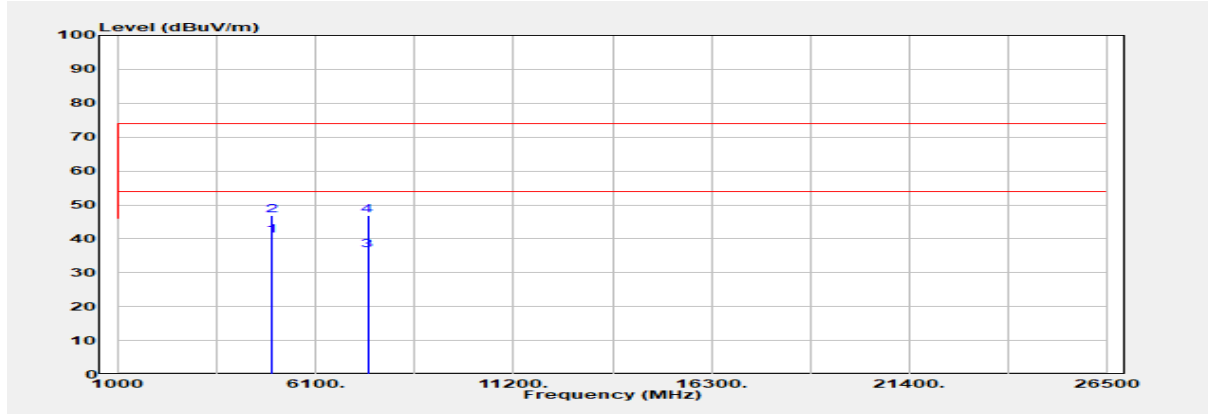
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Report Number :TERF2308002003E2
 Operation Mode :2.4G
 Test Frequency :2476 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-02
 Temp./Humi. :24.2°C/42%
 Antenna Pol. :Vertical
 Engineer :Andy Wang



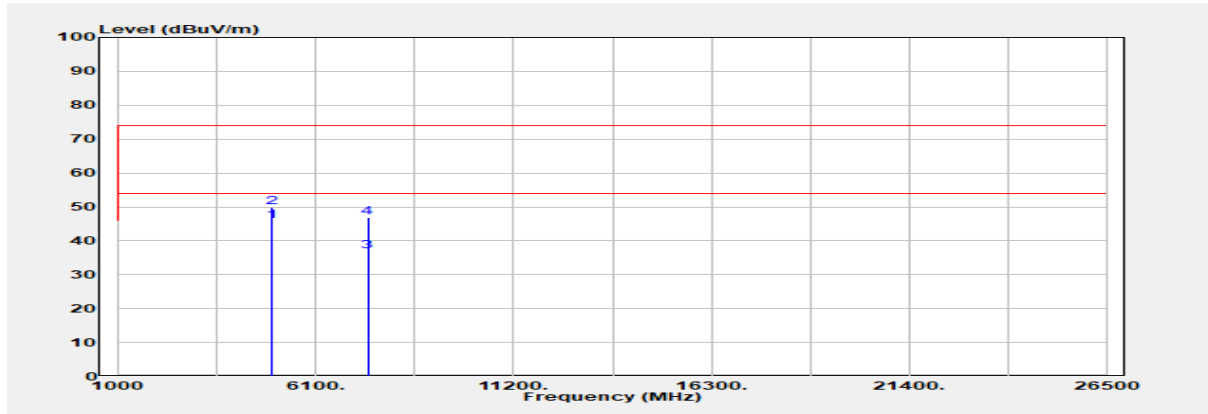
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4952.000	Average	37.57	3.32	40.90	54.00	-13.10
4952.000	Peak	43.52	3.32	46.84	74.00	-27.16
7428.000	Average	26.30	10.32	36.62	54.00	-17.38
7428.000	Peak	36.65	10.32	46.97	74.00	-27.03

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Report Number :TERF2308002003E2
 Operation Mode :2.4G
 Test Frequency :2476 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2023-10-02
 Temp./Humi. :24.2°C/42%
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4952.000	Average	42.39	3.32	45.71	54.00	-8.29
4952.000	Peak	46.54	3.32	49.86	74.00	-24.14
7428.000	Average	26.61	10.32	36.93	54.00	-17.07
7428.000	Peak	36.54	10.32	46.86	74.00	-27.14

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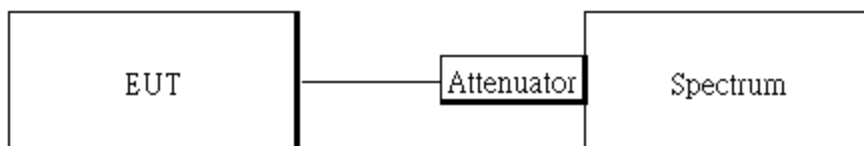
10 EMISSION BANDWIDTH

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% to 5%,
 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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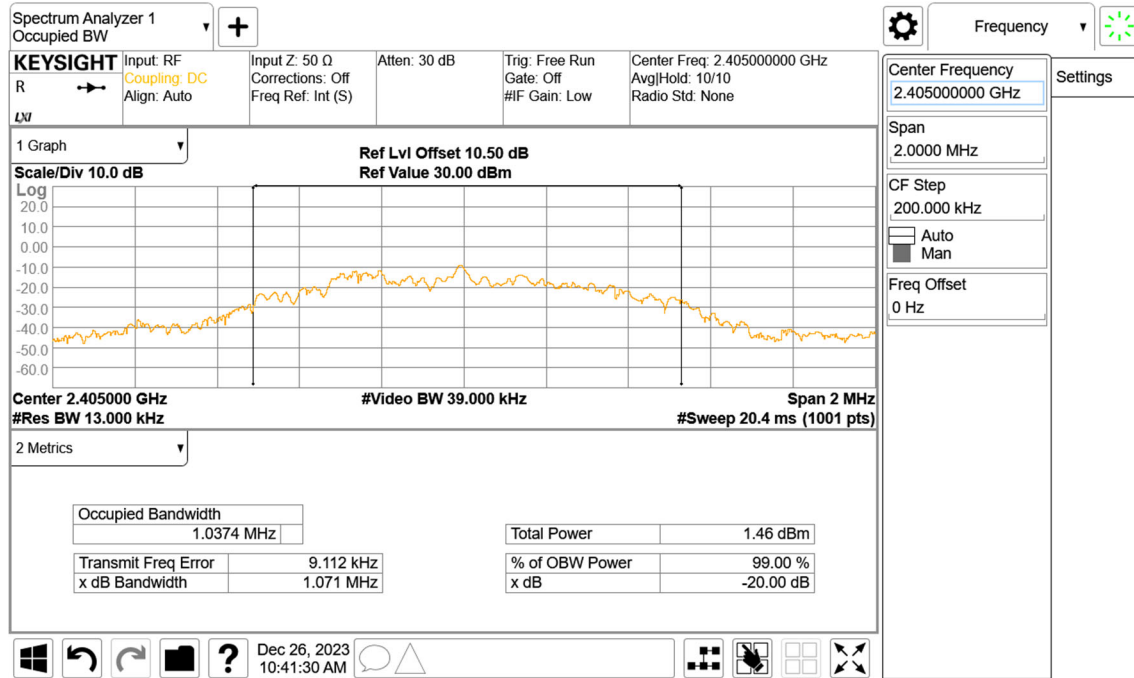
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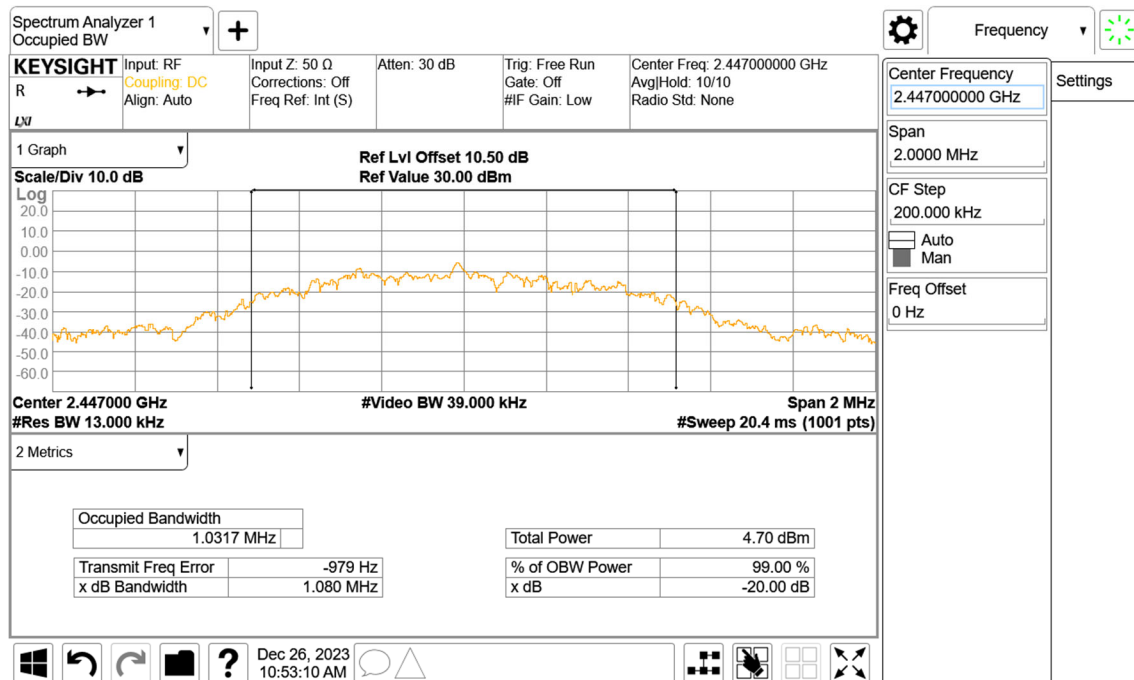
10.3 Measurement Results:

Frequency (MHz)	20dB Bandwidth (MHz)
2405	1.071
2447	1.08
2476	1.05

CH Low



CH Mid

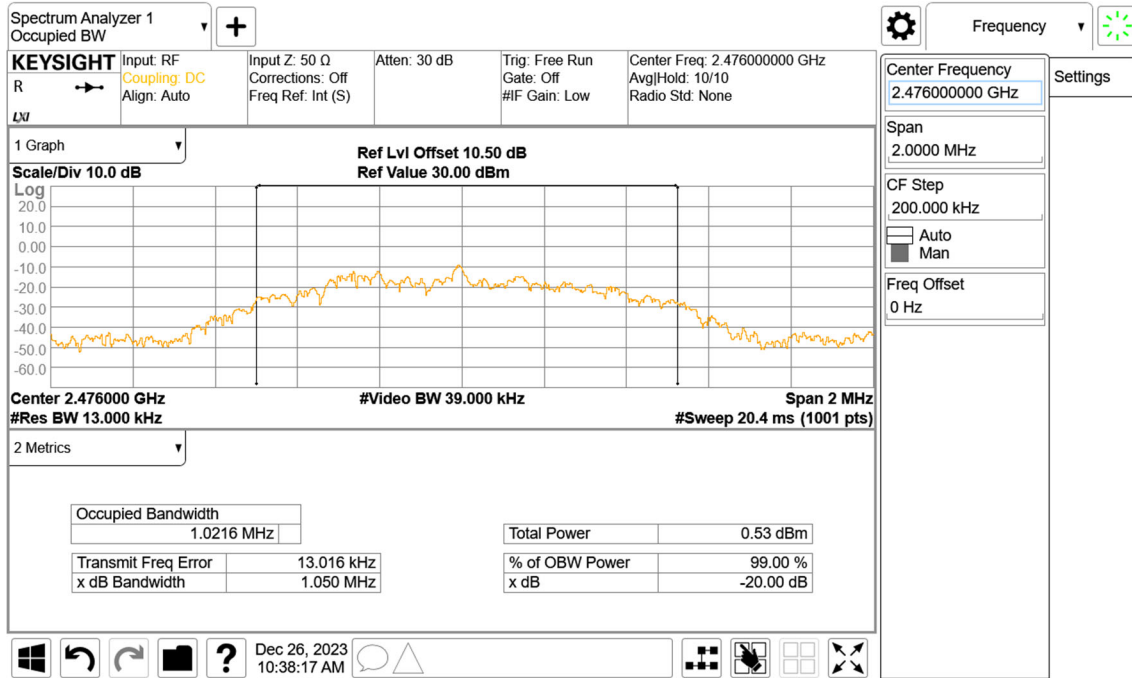


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CH High



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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.

10.4 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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