

ELECTROMAGNETIC EMISSIONS CLASS II & IV PERMISSIVE CHANGE REPORT



Applicant: Acer Incorporated
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22181, Taiwan (R.O.C)

Manufacturer: Compal Electronics, Inc.
No. 581 & 581-1, Ruiguang Road Neihu District Taipei, 11492
Taiwan

Product Name: WiFi 6E BT 5.2 M.2 2230 Module

Brand Name: acer

Model No.: QCNFA765

Report Number: E2/2022/30009

FCC ID HLZQCNFA765

IC: 1754F-QCNFA765

Issue Date: Apr. 15, 2022

Date of Test: Mar. 10, 2022 ~ Mar. 28, 2022

Date of EUT Received: Dec. 17, 2021

Approved By _____

Jay Lin

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 §15.247, ISED RSS-247.

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
E2/2022/30009	00	Original.	Apr. 15, 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:	WiFi 6E BT 5.2 M.2 2230 Module
Brand Name:	acer
Model No.:	QCNFA765
EUT Series No.:	WCBN813AR6122000010 (Conducted) N8QGYWW003206067443400 (Radiated)
Power Supply:	15.4Vdc from Rechargeable Lithium Ion Battery Pack 19.5Vdc from AC/DC Adapter

1.2 RF Specification

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Rated Power in dBm (EIRP)	Modulation Technology
802.11b	2412~2462	11	24.18	27.64	DSSS
802.11g	2412~2462	11	26.96	28.11	OFDM
802.11ac20	2412~2462	11	25.92	26.45	OFDM
802.11ac40	2422~2452	7	22.77	21.68	OFDM
802.11ax20	2412~2462	11	26.94	26.69	OFDMA
802.11ax40	2422~2452	7	24.35	21.99	OFDMA
Modulation type:	CCK, DQPSK, DBPSK for DSSS				
	256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM				
	1024 QAM, 256 QAM , 64QAM, 16QAM, QPSK, BPSK for OFDMA				
Data Rate:	802.11 b: 1/2/5.5/11 Mbps				
	802.11 g: 6/9/12/18/24/36/48/54 Mbps				
	802.11 ax_20MHz:7.3 - 286.8Mbps				
	802.11 ax_40MHz:14.6 - 573.6Mbps				

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1.3 Antenna Designation

Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Direction Gain (dBi)
PIFA	WNC	Main	81EABS15.G07 (DC33002NJ00)	2412-2462	2.6	4.45
		Aux	81EABS15.G08 (DC33002NJ10)		0.1	4.45

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 §15.247
- FCC KDB 558074 D01 DTS Meas. Guidance v05r02
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01
- RSS-247 issue 2 Feb. 2017
- RSS-Gen Issue 5, Amendment 2, February 2021
- 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 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
	Conducted 6			
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 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 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.

2.3.2 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

Conducted Setup	Radiated Setup
	

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated Band Edge & Radiated Spurious Emission	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b/g/ac 20M.

CHANNEL	FREQUENCY (MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

9 channels are provided for 802.11ac/ax 40M

CHANNEL	FREQUENCY (MHz)
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. aTest program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain				Multiple Transmission Spatial
	Ch0	Ch1	Ch2	Ch3	
<input checked="" type="checkbox"/> 802.11 b	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 g	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 ax	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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4.3 Radiated Emission Test:

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	6	DSSS	1	2TX

RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	2TX
802.11g	1 to 11	1,2,10,11	OFDM	6	2TX
802.11ax (HE20)	1 to 11	1,2,10,11	OFDMA	MCS0	MIMO
802.11ax (HE40)	3 to 9	3,4,8,9	OFDMA	MCS0	MIMO

4.4 Antenna Port Conducted Measurement:

Conducted					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	2TX
802.11g	1 to 11	1,2,6,10,11	OFDM	6	2TX
802.11ac (VHT20)	1 to 11	1,2,6,10,11	OFDM	MCS0	MIMO
802.11ac (VHT40)	3 to 9	3,4,6,8,9	OFDM	MCS0	MIMO
802.11ax (HE20)	1 to 11	1,2,6,10,11	OFDMA	MCS0	MIMO
802.11ax (HE40)	3 to 9	3,4,6,8,9	OFDMA	MCS0	MIMO

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Output Power measurement	+/- 1 dB
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		
Polarization: Horizontal	+/-	4.45	dB
	1GHz - 18GHz		
	+/-	4.24	dB
	18GHz - 40GHz		
Polarization: Horizontal	+/-	2.57	dB
	9kHz~30MHz		
	+/-	4.37	dB
	30MHz - 1000MHz		
Polarization: Horizontal	+/-	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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6 PEAK OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

6.1.1 Output Power

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad \text{DirectionalGain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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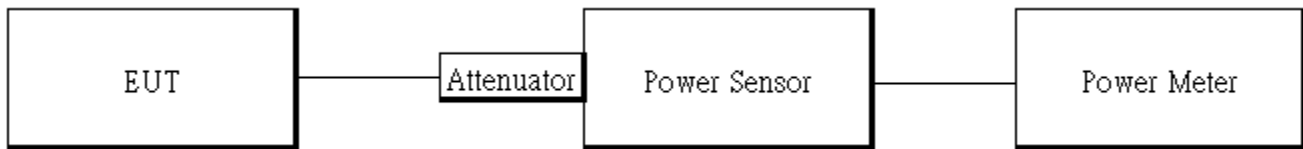
6.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/25/2021	06/24/2022
Power Meter	Anritsu	ML2496A	2138002	11/12/2021	11/11/2022
Power Sensor	Anritsu	MA2411B	1911390	09/20/2021	09/19/2022
Power Sensor	Anritsu	MA2411B	1911398	09/22/2021	09/21/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Marvelous	MVE2213-10	RF13	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF15	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF16	11/18/2021	11/17/2022
DC Block	PASTER-NACK	PE8210	RF158	11/18/2021	11/17/2022

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

6.3 Test Setup

6.3.1 Output Power:



6.4 Measurement Procedure

6.4.1 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.
5. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

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6.5 Measurement Result

6.5.1 Output Power

802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	1	18	20.45	20.16	23.32	30.00	PASS
6	2437	1	19	21.32	21.02	24.18	30.00	PASS
11	2462	1	17.5	20.09	19.78	22.95	30.00	PASS

802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	1	18	17.91	17.64	22.33	30.00	PASS
6	2437	1	19	18.86	18.41	23.19	30.00	PASS
11	2462	1	17.5	17.55	17.23	21.94	30.00	PASS

802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	6	15.5	22.46	22.15	25.32	30.00	PASS
2	2417	6	15.5	22.47	22.16	25.33	30.00	PASS
6	2437	6	21	24.13	23.76	26.96	30.00	PASS
10	2457	6	16	22.87	22.62	25.76	30.00	PASS
11	2462	6	14.5	21.62	21.45	24.55	30.00	PASS

802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	6	15.5	15.45	15.11	19.57	30.00	PASS
2	2417	6	15.5	15.66	15.34	19.79	30.00	PASS
6	2437	6	21	19.49	19.25	23.66	30.00	PASS
10	2457	6	16	16.25	15.98	20.41	30.00	PASS
11	2462	6	14.5	14.74	14.52	18.92	30.00	PASS

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802.11ac_VHT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	16	21.37	21.19	24.29	30.00	PASS
2	2417	MCS8	17	22.36	22.20	25.29	30.00	PASS
6	2437	MCS8	20	23.03	22.78	25.92	30.00	PASS
10	2457	MCS8	16.5	22.08	21.83	24.97	30.00	PASS
11	2462	MCS8	14.5	20.42	20.08	23.26	30.00	PASS

802.11ac_VHT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	16	15.28	14.02	18.02	30.00	PASS
2	2417	MCS8	17	16.10	15.81	19.28	30.00	PASS
6	2437	MCS8	20	18.85	18.51	22.00	30.00	PASS
10	2457	MCS8	16.5	15.71	15.41	18.88	30.00	PASS
11	2462	MCS8	14.5	13.84	13.71	17.10	30.00	PASS

802.11ac_VHT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS8	13.5	18.23	18.88	21.58	30.00	PASS
4	2427	MCS8	13.5	19.29	18.97	22.14	30.00	PASS
6	2437	MCS8	14	19.98	19.52	22.77	30.00	PASS
8	2447	MCS8	13.5	18.27	18.93	21.62	30.00	PASS
9	2452	MCS8	13	17.86	17.65	20.77	30.00	PASS

802.11ac_VHT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS8	13.5	13.62	13.23	16.61	30.00	PASS
4	2427	MCS8	13.5	13.58	13.37	16.66	30.00	PASS
6	2437	MCS8	14	14.21	13.89	17.23	30.00	PASS
8	2447	MCS8	13.5	13.74	13.39	16.75	30.00	PASS
9	2452	MCS8	13	13.17	12.92	16.23	30.00	PASS

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802.11ax_HE20M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
1	2412	MCS0	full	16	22.49	22.24	25.38	30.00	PASS
			26/0	15	21.89	21.53	24.72	30.00	PASS
			52/37	15	21.77	21.45	24.62	30.00	PASS
			106/53	14.5	20.71	20.58	23.66	30.00	PASS
			242/61	14	20.28	20.03	23.17	30.00	PASS
2	2417	MCS0	full	17	23.31	22.96	26.15	30.00	PASS
			26/0	16	22.52	22.34	25.44	30.00	PASS
			52/37	15.5	22.05	21.82	24.95	30.00	PASS
			106/53	15.5	22.19	21.98	25.10	30.00	PASS
			242/61	14	19.95	19.73	22.85	30.00	PASS
6	2437	MCS0	full	20	24.16	23.68	26.94	30.00	PASS
			26/4	16.5	23.08	22.83	25.97	30.00	PASS
			52/38	16.5	23.02	22.74	25.89	30.00	PASS
			106/53	16.5	23.15	22.89	26.03	30.00	PASS
			242/61	16.5	23.21	22.85	26.04	30.00	PASS
10	2457	MCS0	full	15.5	22.33	22.08	25.22	30.00	PASS
			26/8	14	22.45	22.27	25.37	30.00	PASS
			52/40	13	19.89	19.65	22.78	30.00	PASS
			106/54	14	20.91	20.58	23.76	30.00	PASS
			242/61	14	20.85	20.56	23.72	30.00	PASS
11	2462	MCS0	full	14.5	21.39	21.08	24.25	30.00	PASS
			26/8	14	22.40	22.21	25.32	30.00	PASS
			52/40	13	19.81	19.57	22.70	30.00	PASS
			106/54	13.5	20.82	20.53	23.69	30.00	PASS
			242/61	12.5	18.76	18.51	21.65	30.00	PASS

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802.11ax_HE20M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
1	2412	MCS0	full	16	15.62	15.34	18.73	30.00	PASS
			26/0	15	14.94	14.63	18.04	30.00	PASS
			52/37	15	14.85	14.55	17.95	30.00	PASS
			106/53	14.5	14.32	14.04	17.43	30.00	PASS
			242/61	14	13.50	13.24	16.62	30.00	PASS
2	2417	MCS0	full	17	16.42	16.16	19.54	30.00	PASS
			26/0	16	15.85	15.57	18.96	30.00	PASS
			52/37	15.5	15.26	15.02	18.39	30.00	PASS
			106/53	15.5	15.37	15.17	18.52	30.00	PASS
			242/61	14	13.65	13.32	16.74	30.00	PASS
6	2437	MCS0	full	20	19.10	18.87	22.24	30.00	PASS
			26/4	16.5	16.45	16.21	19.58	30.00	PASS
			52/38	16.5	16.47	16.24	19.61	30.00	PASS
			106/53	16.5	16.54	16.35	19.70	30.00	PASS
			242/61	16.5	16.51	16.31	19.66	30.00	PASS
10	2457	MCS0	full	15.5	15.93	15.76	19.10	30.00	PASS
			26/8	14	13.61	13.48	16.80	30.00	PASS
			52/40	13	12.78	12.57	15.93	30.00	PASS
			106/54	14	13.54	13.17	16.61	30.00	PASS
			242/61	14	13.37	13.16	16.52	30.00	PASS
11	2462	MCS0	full	14.5	14.35	14.06	17.46	30.00	PASS
			26/8	14	13.72	13.55	16.89	30.00	PASS
			52/40	13	12.79	12.58	15.94	30.00	PASS
			106/54	13.5	13.39	13.09	16.49	30.00	PASS
			242/61	12.5	11.92	11.75	15.09	30.00	PASS

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802.11ax_HE40M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
3	2422	MCS0	full	13.5	19.56	19.25	22.42	30.00	PASS
			484/65	10	16.33	15.85	19.11	30.00	PASS
4	2427	MCS0	full	14	19.97	19.74	22.87	30.00	PASS
			484/65	10.5	17.16	17.69	20.44	30.00	PASS
6	2437	MCS0	full	15.5	21.52	21.15	24.35	30.00	PASS
			484/65	14.5	20.75	20.41	23.59	30.00	PASS
8	2447	MCS0	full	14	19.77	19.63	22.71	30.00	PASS
			484/65	10	17.95	17.76	20.87	30.00	PASS
9	2452	MCS0	full	13	19.35	19.16	22.27	30.00	PASS
			484/65	10	18.18	17.95	21.08	30.00	PASS
802.11ax_HE40M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
3	2422	MCS0	full	13.5	12.54	12.30	15.62	30.00	PASS
			484/65	10	9.38	8.93	12.36	30.00	PASS
4	2427	MCS0	full	14	13.02	12.85	16.14	30.00	PASS
			484/65	10.5	9.77	9.48	12.83	30.00	PASS
6	2437	MCS0	full	15.5	14.42	14.25	17.54	30.00	PASS
			484/65	14.5	13.69	13.41	16.75	30.00	PASS
8	2447	MCS0	full	14	12.85	12.62	15.94	30.00	PASS
			484/65	10	11.08	10.83	14.16	30.00	PASS
9	2452	MCS0	full	13	12.32	12.14	15.43	30.00	PASS
			484/65	10	11.24	10.96	14.30	30.00	PASS

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802.11b_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	1	17.91	17.64	22.33	4.45	26.78	36	PASS
6	2437	1	18.86	18.41	23.19	4.45	27.64	36	PASS
11	2462	1	17.55	17.23	21.94	4.45	26.39	36	PASS

802.11g_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	6	15.45	15.11	19.57	4.45	24.02	36	PASS
2	2417	6	15.66	15.34	19.79	4.45	24.24	36	PASS
6	2437	6	19.49	19.25	23.66	4.45	28.11	36	PASS
10	2457	6	16.25	15.98	20.41	4.45	24.86	36	PASS
11	2462	6	14.74	14.52	18.92	4.45	23.37	36	PASS

802.11ac_VHT20M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	MCS8	15.28	14.02	18.02	4.45	22.47	36	PASS
2	2417	MCS8	16.10	15.81	19.28	4.45	23.73	36	PASS
6	2437	MCS8	18.85	18.51	22.00	4.45	26.45	36	PASS
10	2457	MCS8	15.71	15.41	18.88	4.45	23.33	36	PASS
11	2462	MCS8	13.84	13.71	17.10	4.45	21.55	36	PASS

802.11ac_VHT40M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
3	2422	MCS8	13.62	13.23	16.61	4.45	21.06	36	PASS
4	2427	MCS8	13.58	13.37	16.66	4.45	21.11	36	PASS
6	2437	MCS8	14.21	13.89	17.23	4.45	21.68	36	PASS
8	2447	MCS8	13.74	13.39	16.75	4.45	21.20	36	PASS
9	2452	MCS8	13.17	12.92	16.23	4.45	20.68	36	PASS

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802.11ax_HE20M MIMO										
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
				CH 0	CH 1					
1	2412	MCS0	full	15.62	15.34	18.73	4.45	23.18	36	PASS
			26/0	14.94	14.63	18.04	4.45	22.49	36	PASS
			52/37	14.85	14.55	17.95	4.45	22.40	36	PASS
			106/53	14.32	14.04	17.43	4.45	21.88	36	PASS
			242/61	13.50	13.24	16.62	4.45	21.07	36	PASS
2	2417	MCS0	full	16.42	16.16	19.54	4.45	23.99	36	PASS
			26/0	15.85	15.57	18.96	4.45	23.41	36	PASS
			52/37	15.26	15.02	18.39	4.45	22.84	36	PASS
			106/53	15.37	15.17	18.52	4.45	22.97	36	PASS
			242/61	13.65	13.32	16.74	4.45	21.19	36	PASS
6	2437	MCS0	full	19.10	18.87	22.24	4.45	26.69	36	PASS
			26/4	16.45	16.21	19.58	4.45	24.03	36	PASS
			52/38	16.47	16.24	19.61	4.45	24.06	36	PASS
			106/53	16.54	16.35	19.70	4.45	24.15	36	PASS
			242/61	16.51	16.31	19.66	4.45	24.11	36	PASS
10	2457	MCS0	full	15.93	15.76	19.10	4.45	23.55	36	PASS
			26/8	13.61	13.48	16.80	4.45	21.25	36	PASS
			52/40	12.78	12.57	15.93	4.45	20.38	36	PASS
			106/54	13.54	13.17	16.61	4.45	21.06	36	PASS
			242/61	13.37	13.16	16.52	4.45	20.97	36	PASS
11	2462	MCS0	full	14.35	14.06	17.46	4.45	21.91	36	PASS
			26/8	13.72	13.55	16.89	4.45	21.34	36	PASS
			52/40	12.79	12.58	15.94	4.45	20.39	36	PASS
			106/54	13.39	13.09	16.49	4.45	20.94	36	PASS
			242/61	11.92	11.75	15.09	4.45	19.54	36	PASS

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802.11ax_HE40M MIMO											
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit		RESULT
				CH 0	CH 1						
3	2422	MCS0	full	12.54	12.30	15.62	4.45	20.07	36		PASS
			484/65	9.38	8.93	12.36	4.45	16.81	36		PASS
4	2427	MCS0	full	13.02	12.85	16.14	4.45	20.59	36		PASS
			484/65	9.77	9.48	12.83	4.45	17.28	36		PASS
6	2437	MCS0	full	14.42	14.25	17.54	4.45	21.99	36		PASS
			484/65	13.69	13.41	16.75	4.45	21.20	36		PASS
8	2447	MCS0	full	12.85	12.62	15.94	4.45	20.39	36		PASS
			484/65	11.08	10.83	14.16	4.45	18.61	36		PASS
9	2452	MCS0	full	12.32	12.14	15.43	4.45	19.88	36		PASS
			484/65	11.24	10.96	14.30	4.45	18.75	36		PASS

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7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

7.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	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. The lower limit shall apply at the transition frequencies.

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

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7.2 Measurement Equipment Used

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZ-BECK	VULB 9168	1206	02/15/2022	02/14/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/09/2021	04/08/2022
Loop Antenna	ETS.LIND-GREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber G	N/A	03/30/2021	03/29/2022
3m Site NSA	SGS	966 chamber G	N/A	03/30/2022	03/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
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	EMC330N	980781	03/15/2021	03/14/2022
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2022	03/14/2023
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2021	03/14/2022
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2022	03/14/2023
Attenuator	Marvelous	MVE2213-10	RF05	11/18/2021	11/17/2022
Highpass Filter	WI	WHKX10-2624-3200-1800-80SS	1	05/10/2021	05/09/2022
Highpass Filter	WI	WHKX10-6090-7000-17000-80SS	1	05/10/2021	05/09/2022
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216 、 210217 、 210218	03/15/2021	03/14/2022

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Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216、 210217、 210218	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219、 210220、 210221	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219、 210220、 210221	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000-15000	210224、 210306	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000-15000	210224、 210306	03/15/2022	03/14/2023

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

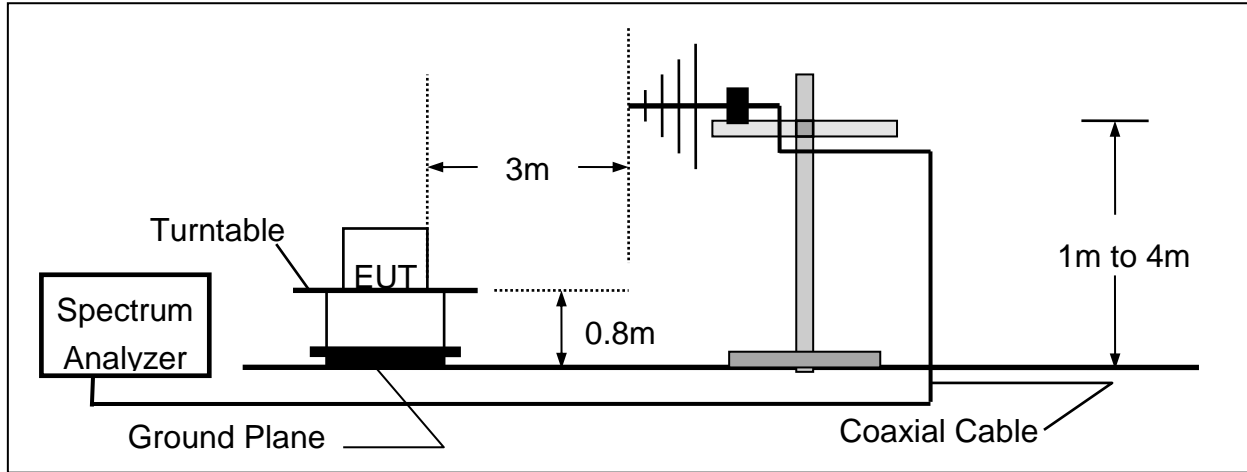
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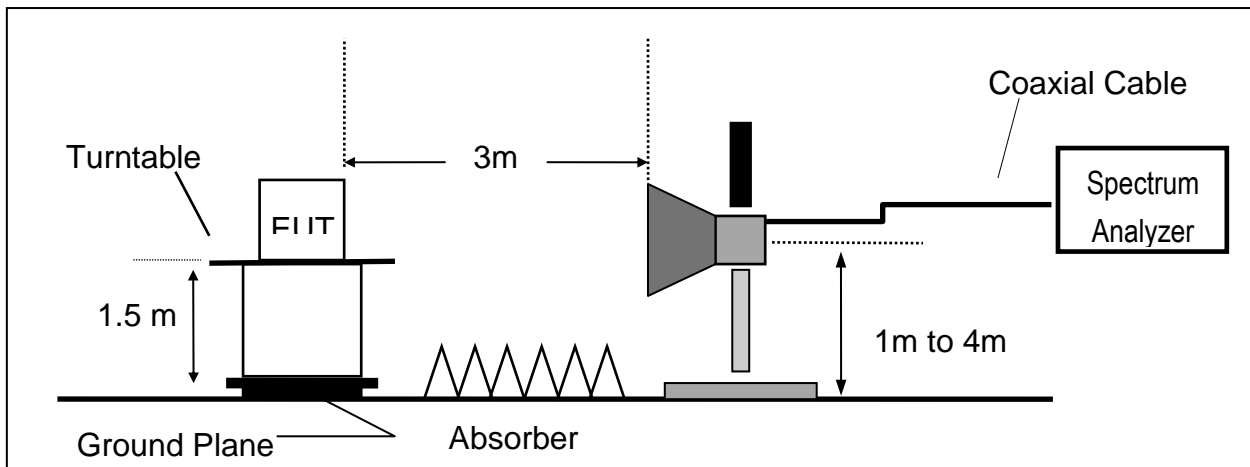
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7.3 Test Setup

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



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



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7.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When 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.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

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7.5 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

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

Actual FS(dBuV/m) = SPA. Reading level(dBμV) + Factor(dB)

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

7.6 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

7.7 Measurement Result

Note:

1. *Refer to next page spectrum analyzer data chart and tabular data sheets.*
2. *Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands*

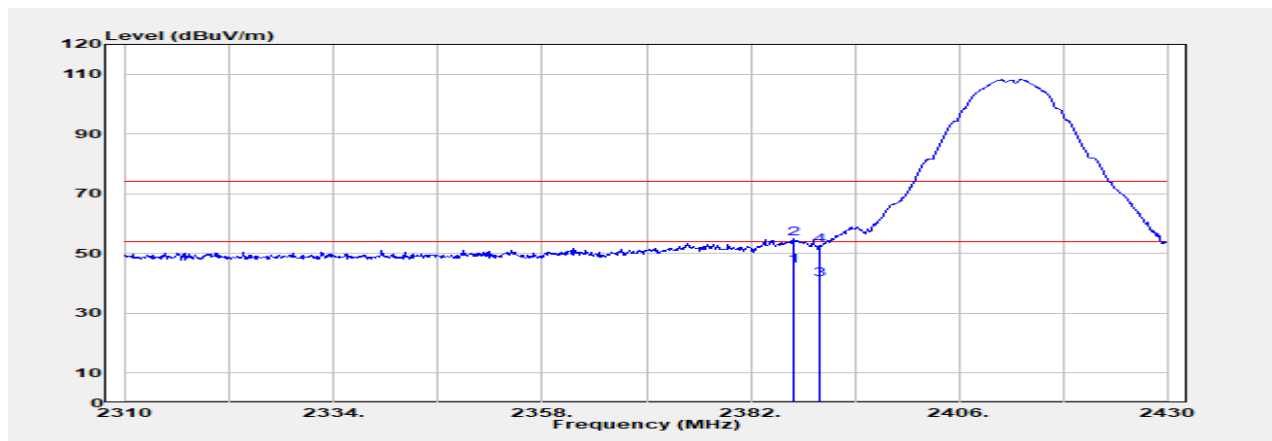
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7.7.1 Radiated Band Edge Measurement Result

Report Number	:E2/2022/30009	Test Site	:SAC G
Operation Mode	:802.11b	Test Date	:2022-03-21
Test Frequency	:2412 MHz	Temp./Humi.	:21.0/70
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Quentin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2386.920	Average	49.49	-3.79	45.70	54.00	-8.30
2386.920	Peak	58.70	-3.79	54.91	74.00	-19.09
2390.000	Average	44.96	-3.80	41.16	54.00	-12.84
2390.000	Peak	56.34	-3.80	52.54	74.00	-21.46

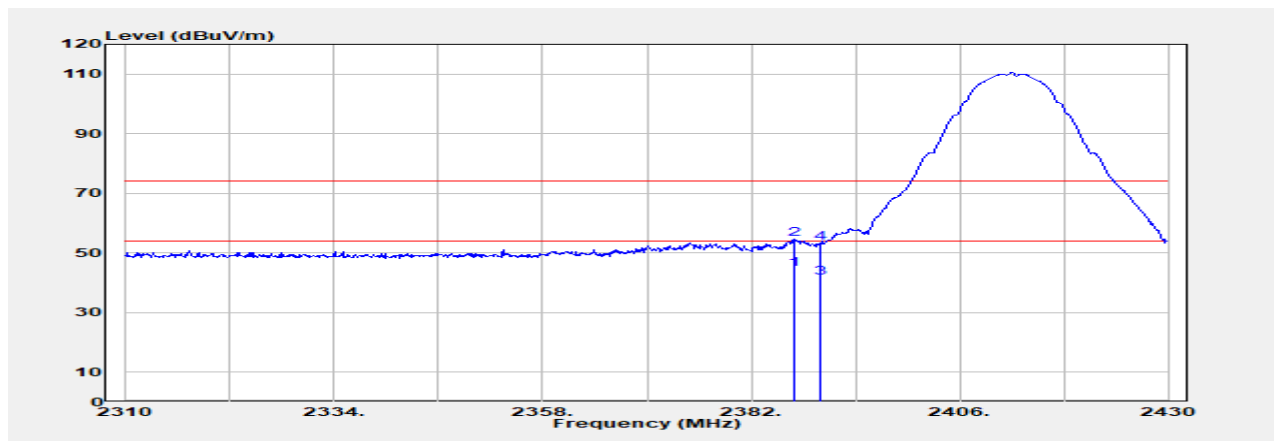
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Report Number :E2/2022/30009
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



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
2386.920	Average	48.25	-3.79	44.46	54.00	-9.54
2386.920	Peak	58.30	-3.79	54.51	74.00	-19.49
2390.000	Average	45.56	-3.80	41.76	54.00	-12.24
2390.000	Peak	56.99	-3.80	53.19	74.00	-20.81

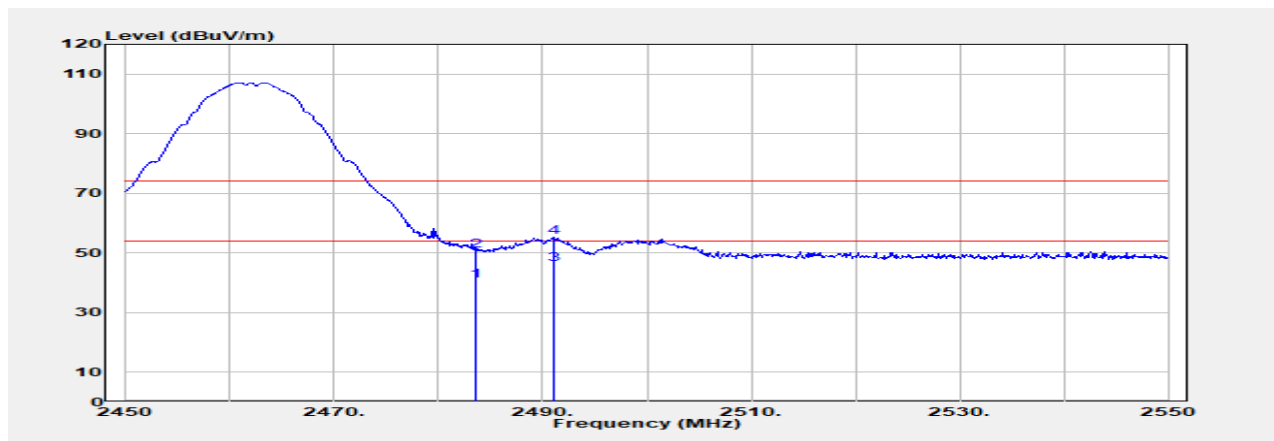
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Report Number :E2/2022/30009
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.500	Average	44.63	-3.92	40.71	54.00	-13.29
2483.500	Peak	54.77	-3.92	50.85	74.00	-23.15
2491.000	Average	50.17	-3.88	46.29	54.00	-7.71
2491.000	Peak	59.07	-3.88	55.19	74.00	-18.81

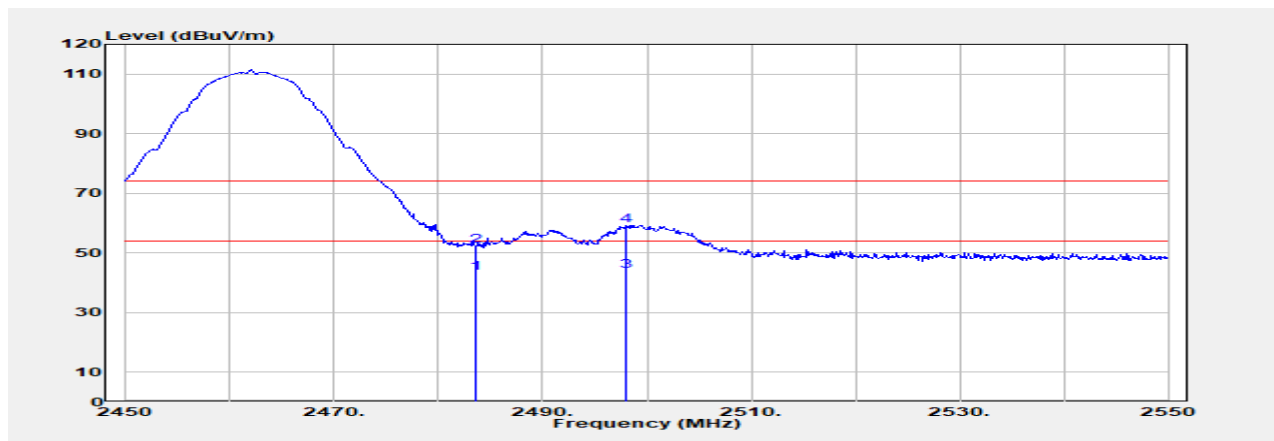
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Report Number :E2/2022/30009
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	47.21	-3.92	43.30	54.00	-10.70
2483.500	Peak	56.43	-3.92	52.51	74.00	-21.49
2497.900	Average	47.92	-3.86	44.06	54.00	-9.94
2497.900	Peak	63.20	-3.86	59.34	74.00	-14.66

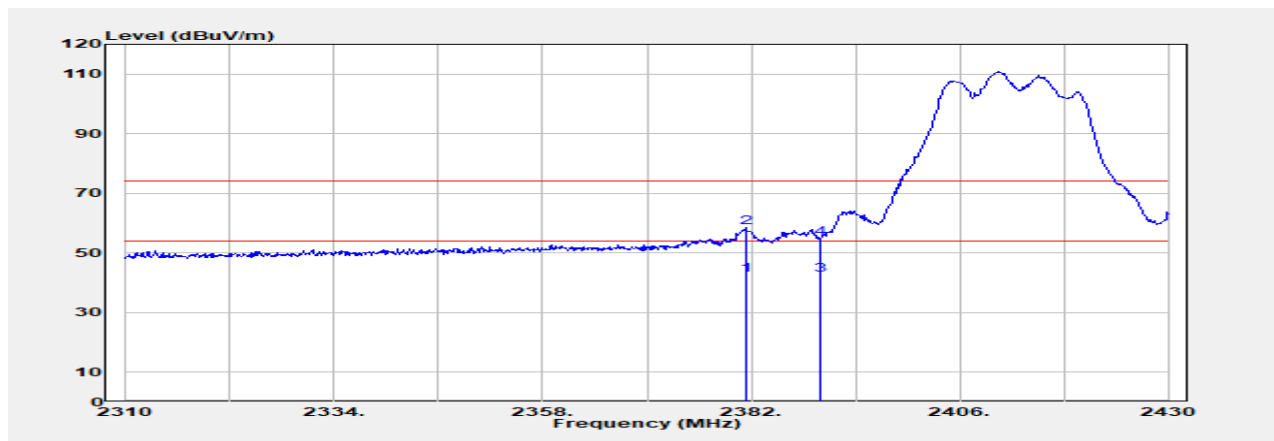
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Report Number :E2/2022/30009
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2381.400	Average	46.27	-3.77	42.50	54.00	-11.50
2381.400	Peak	62.27	-3.77	58.51	74.00	-15.49
2390.000	Average	46.55	-3.80	42.75	54.00	-11.25
2390.000	Peak	58.72	-3.80	54.92	74.00	-19.08

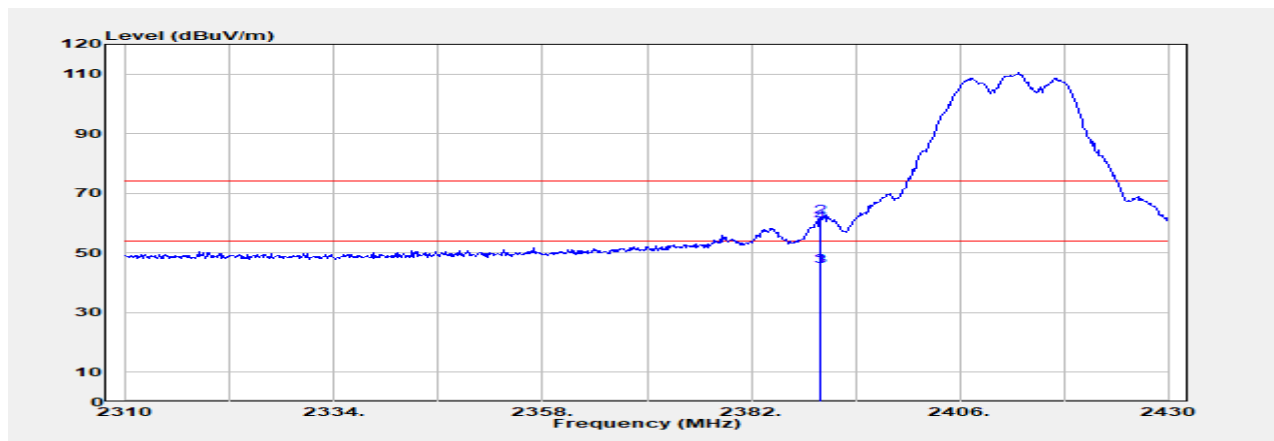
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Report Number :E2/2022/30009
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



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
2389.920	Average	49.25	-3.80	45.45	54.00	-8.55
2389.920	Peak	65.87	-3.80	62.07	74.00	-11.93
2390.000	Average	49.22	-3.80	45.42	54.00	-8.58
2390.000	Peak	64.03	-3.80	60.23	74.00	-13.77

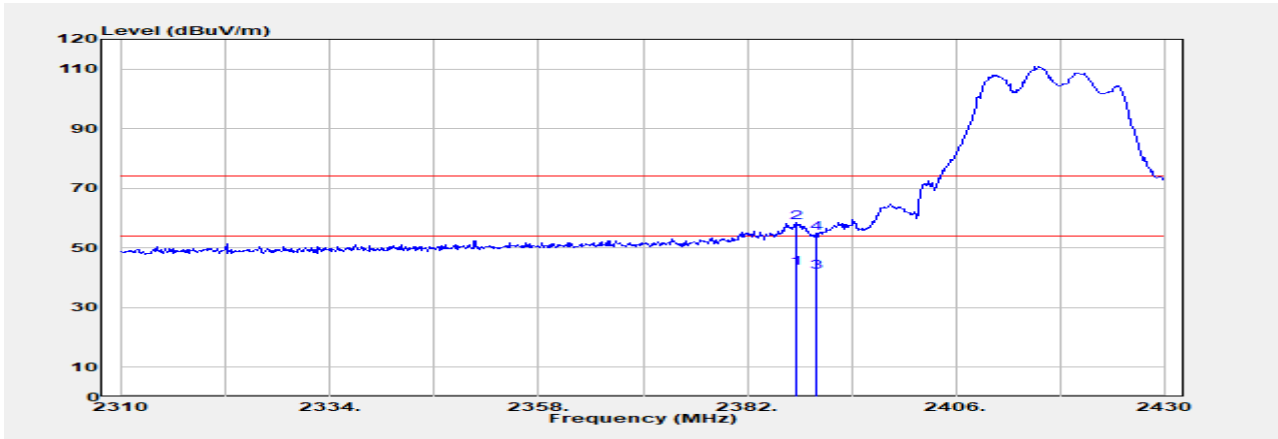
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Report Number :E2/2022/30009
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :BE CH 2
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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
2387.760	Average	46.89	-3.79	43.10	54.00	-10.90
2387.760	Peak	62.42	-3.79	58.63	74.00	-15.37
2390.000	Average	45.64	-3.80	41.84	54.00	-12.16
2390.000	Peak	58.61	-3.80	54.81	74.00	-19.19

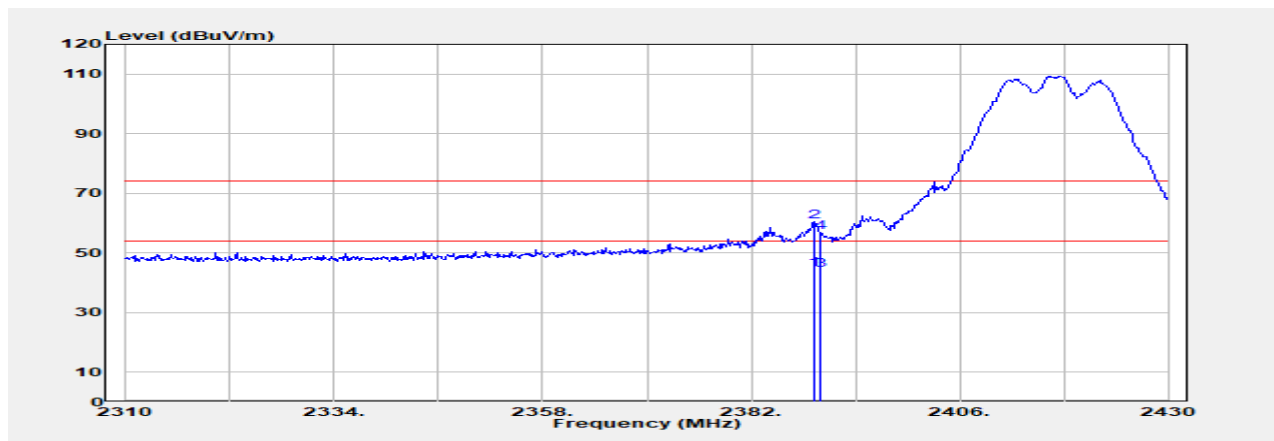
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Report Number :E2/2022/30009
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :BE CH 2
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2389.320	Average	48.21	-3.80	44.42	54.00	-9.58
2389.320	Peak	64.38	-3.80	60.58	74.00	-13.42
2390.000	Average	48.02	-3.80	44.22	54.00	-9.78
2390.000	Peak	60.56	-3.80	56.76	74.00	-17.24

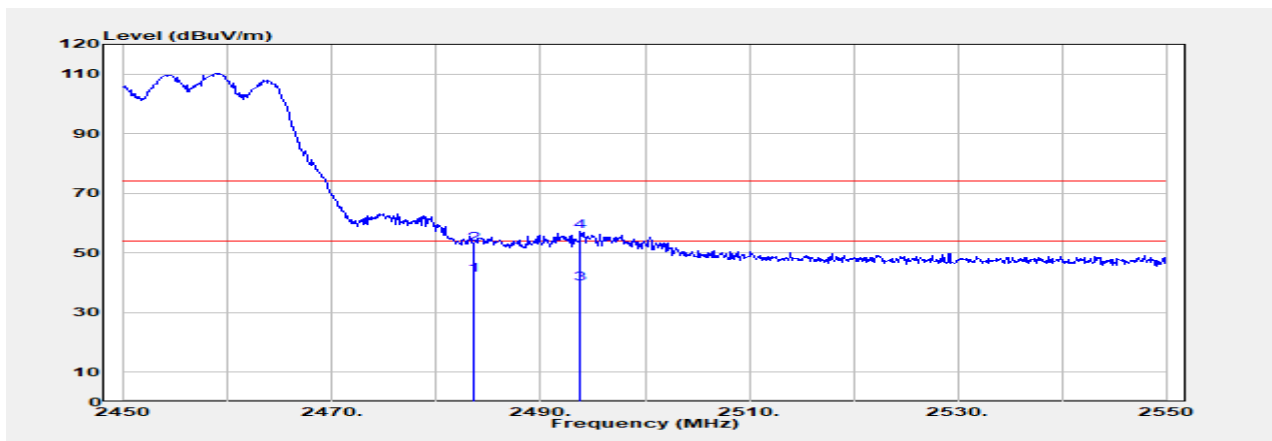
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Report Number :E2/2022/30009
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	46.38	-3.92	42.46	54.00	-11.54
2483.500	Peak	57.00	-3.92	53.08	74.00	-20.92
2493.800	Average	43.56	-3.87	39.70	54.00	-14.30
2493.800	Peak	61.07	-3.87	57.21	74.00	-16.79

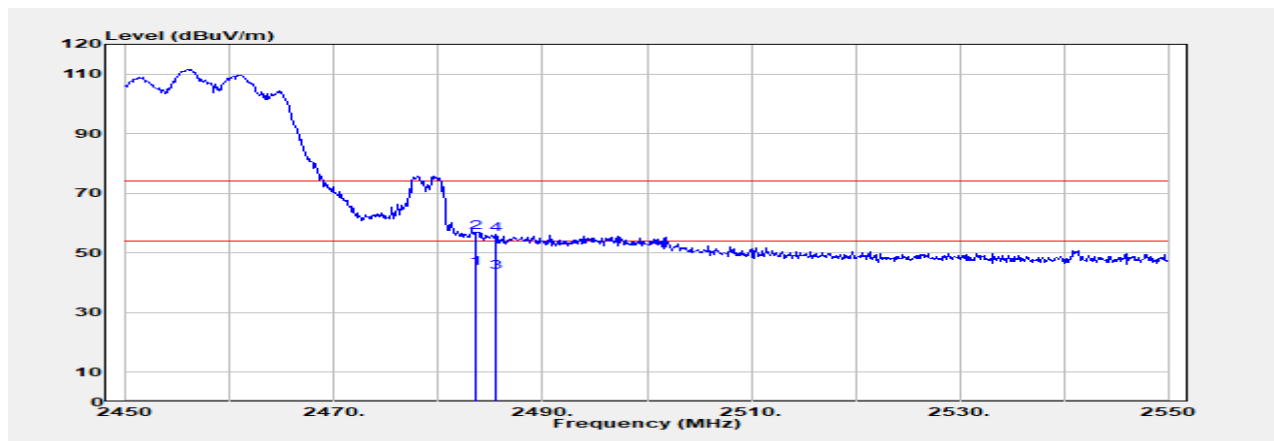
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Report Number :E2/2022/30009
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	48.89	-3.92	44.97	54.00	-9.03
2483.500	Peak	60.95	-3.92	57.04	74.00	-16.96
2485.500	Average	47.45	-3.91	43.54	54.00	-10.46
2485.500	Peak	60.12	-3.91	56.21	74.00	-17.79

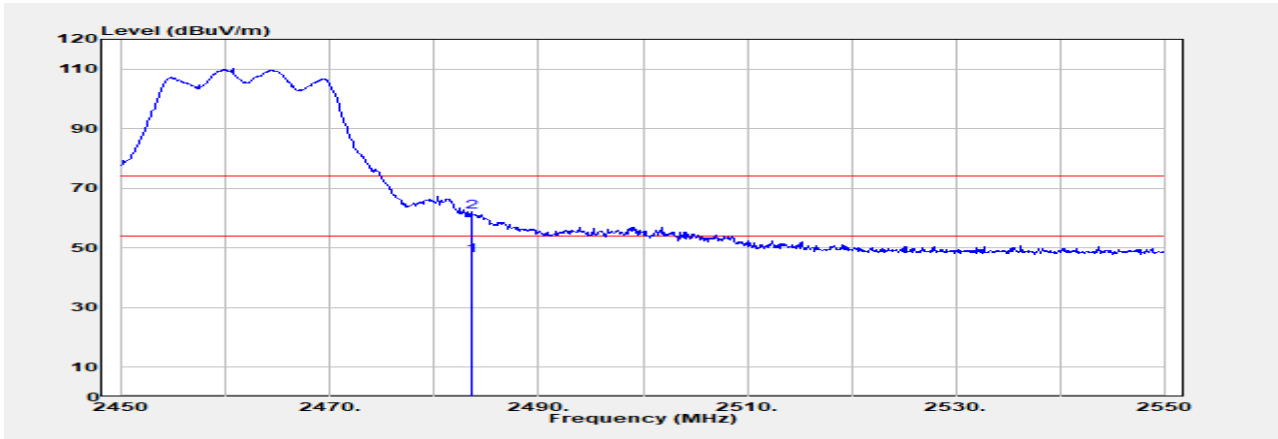
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Report Number :E2/2022/30009
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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	51.24	-3.92	47.32	54.00	-6.68
2483.500	Peak	65.95	-3.92	62.03	74.00	-11.97

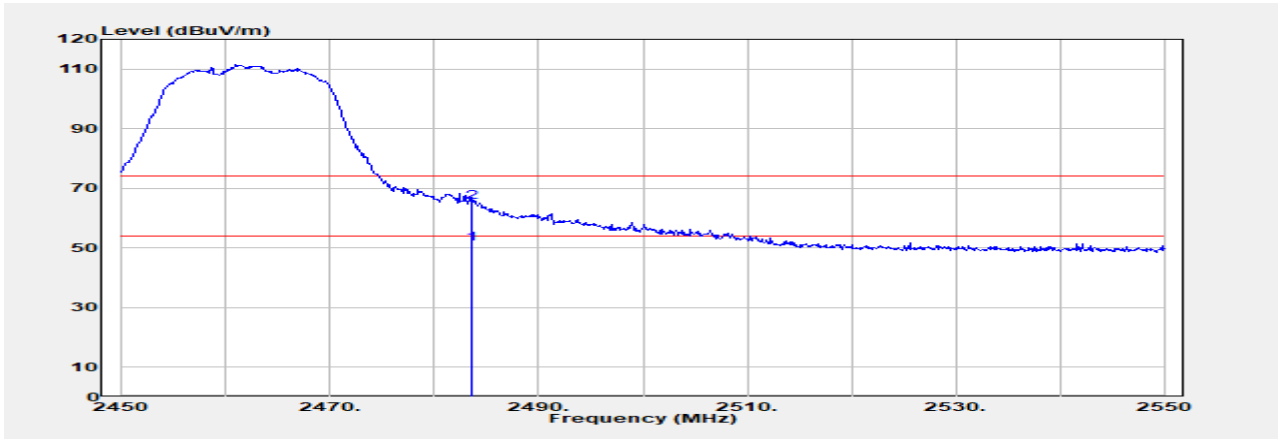
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Report Number :E2/2022/30009
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



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	55.35	-3.92	51.43	54.00	-2.57
2483.500	Peak	69.18	-3.92	65.26	74.00	-8.74

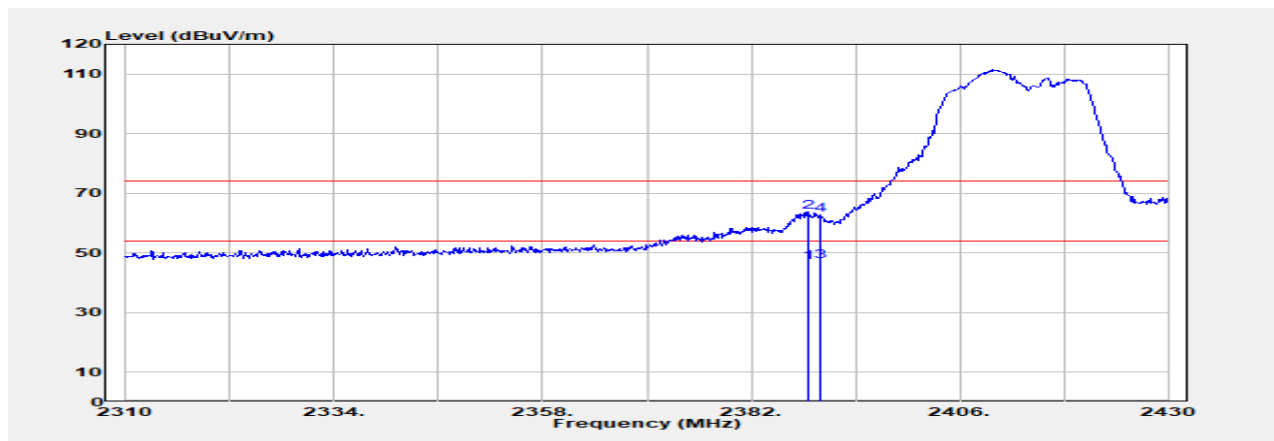
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Report Number :E2/2022/30009
 Operation Mode :802.11ac20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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
2388.600	Average	50.69	-3.79	46.90	54.00	-7.10
2388.600	Peak	67.58	-3.79	63.79	74.00	-10.21
2390.000	Average	50.91	-3.80	47.10	54.00	-6.90
2390.000	Peak	66.45	-3.80	62.65	74.00	-11.35

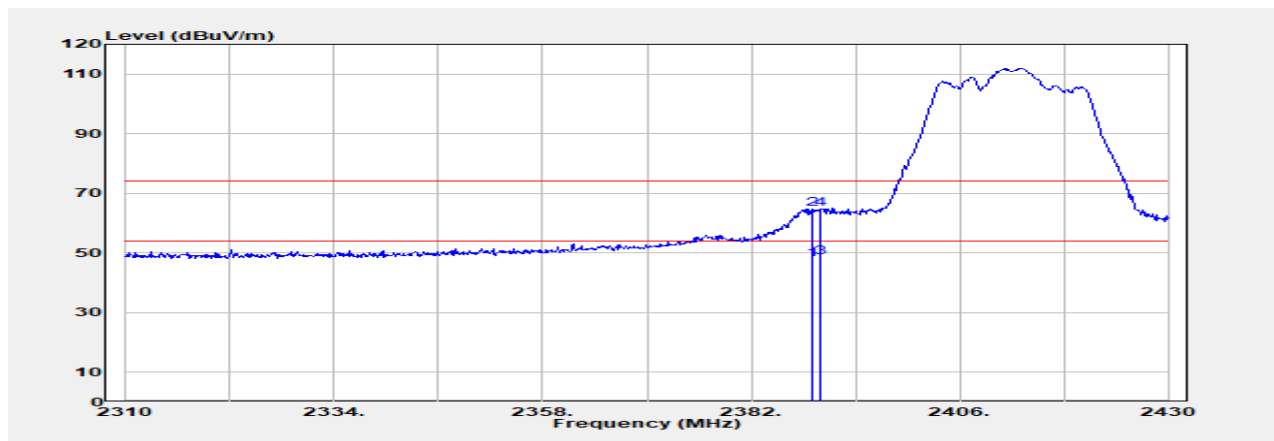
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Report Number :E2/2022/30009
 Operation Mode :802.11ac20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



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
2389.080	Average	51.70	-3.80	47.91	54.00	-6.09
2389.080	Peak	68.67	-3.80	64.87	74.00	-9.13
2390.000	Average	52.17	-3.80	48.37	54.00	-5.63
2390.000	Peak	68.59	-3.80	64.79	74.00	-9.21

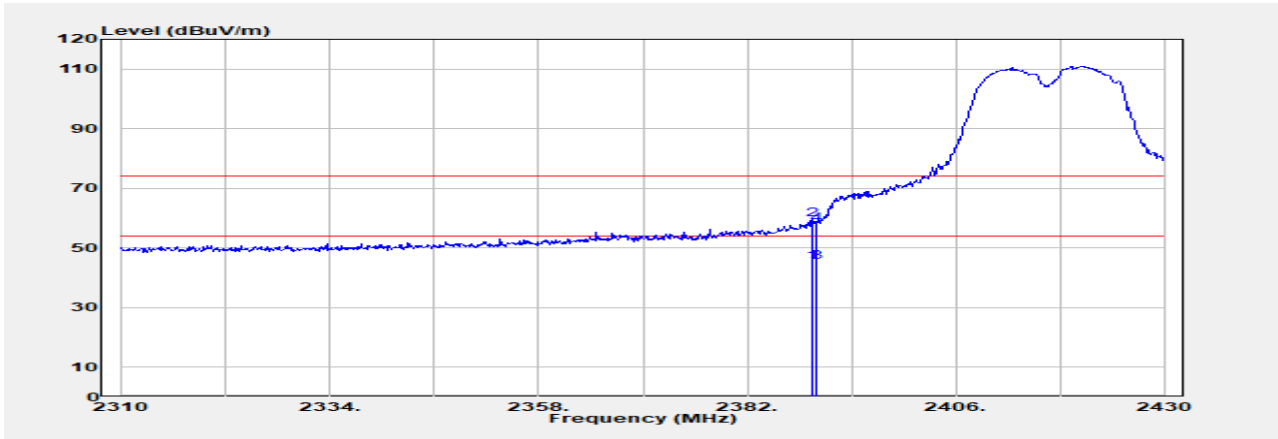
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Report Number :E2/2022/30009
 Operation Mode :802.11ac20
 Test Frequency :2417 MHz
 Test Mode :BE CH 2
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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
2389.560	Average	48.97	-3.80	45.18	54.00	-8.82
2389.560	Peak	63.44	-3.80	59.64	74.00	-14.36
2390.000	Average	49.17	-3.80	45.37	54.00	-8.63
2390.000	Peak	61.77	-3.80	57.97	74.00	-16.03

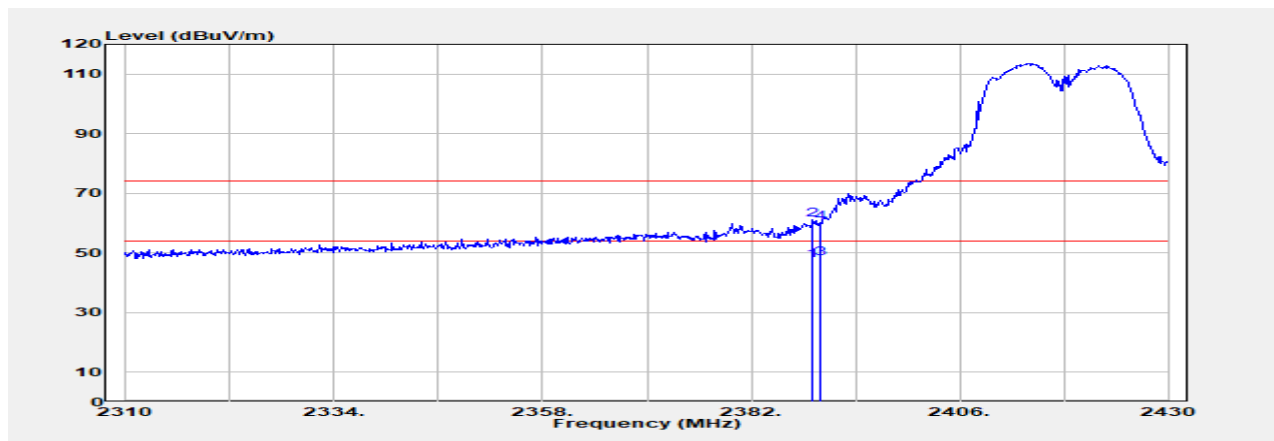
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Report Number :E2/2022/30009
 Operation Mode :802.11ac20
 Test Frequency :2417 MHz
 Test Mode :BE CH 2
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.080	Average	51.23	-3.80	47.44	54.00	-6.56
2389.080	Peak	64.83	-3.80	61.03	74.00	-12.97
2390.000	Average	52.03	-3.80	48.23	54.00	-5.77
2390.000	Peak	64.03	-3.80	60.23	74.00	-13.77

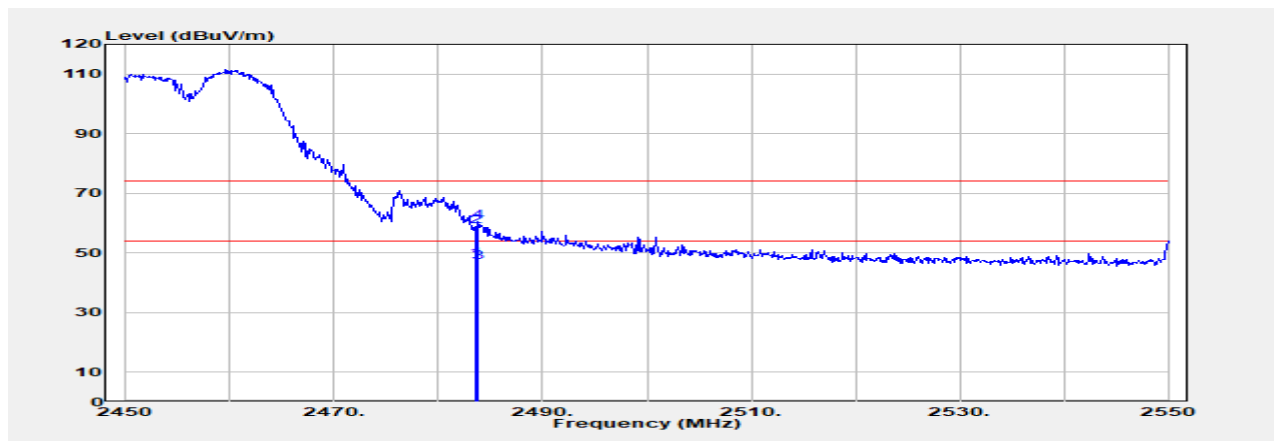
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Report Number :E2/2022/30009
 Operation Mode :802.11ac20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.500	Average	51.57	-3.92	47.65	54.00	-6.35
2483.500	Peak	62.83	-3.92	58.91	74.00	-15.09
2483.800	Average	50.89	-3.92	46.97	54.00	-7.03
2483.800	Peak	64.41	-3.92	60.49	74.00	-13.51

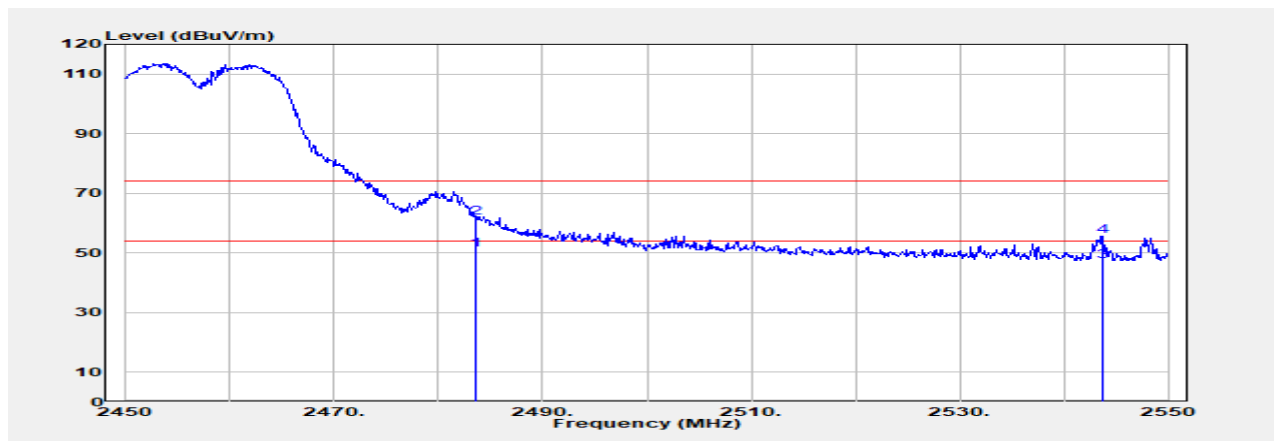
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Report Number :E2/2022/30009
 Operation Mode :802.11ac20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	54.83	-3.92	50.91	54.00	-3.09
2483.500	Peak	65.74	-3.92	61.82	74.00	-12.18
2543.800	Average	51.12	-3.92	47.20	54.00	-6.80
2543.800	Peak	59.62	-3.92	55.70	74.00	-18.30

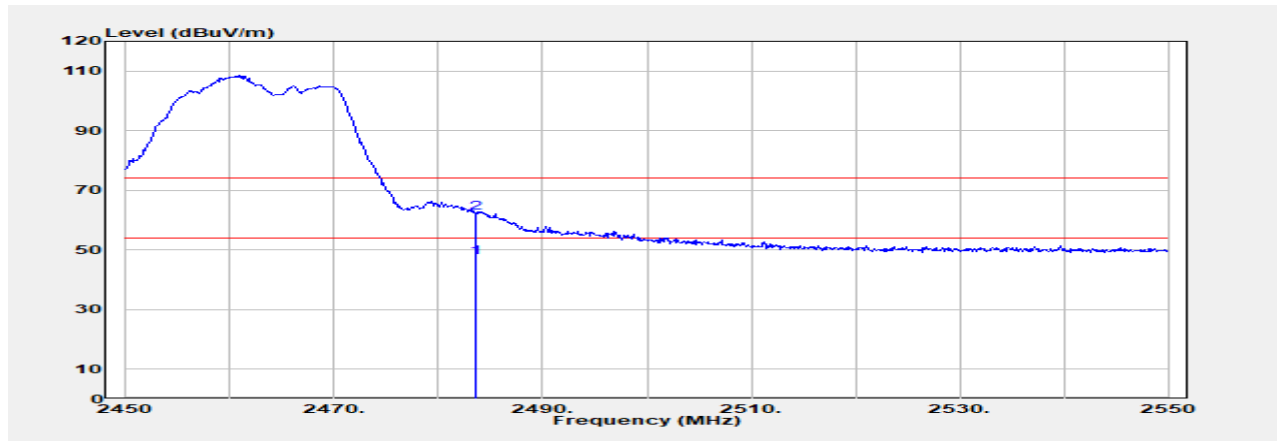
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Report Number :E2/2022/30009
 Operation Mode :802.11ac20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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	51.35	-3.92	47.44	54.00	-6.56
2483.500	Peak	66.51	-3.92	62.60	74.00	-11.40

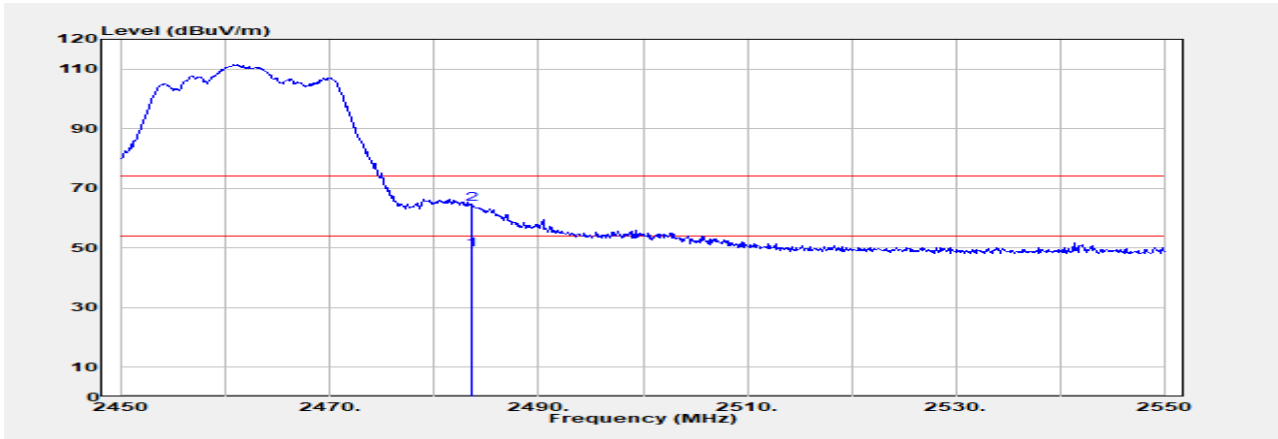
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Report Number :E2/2022/30009
 Operation Mode :802.11ac20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



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	53.45	-3.92	49.53	54.00	-4.47
2483.500	Peak	68.47	-3.92	64.55	74.00	-9.45

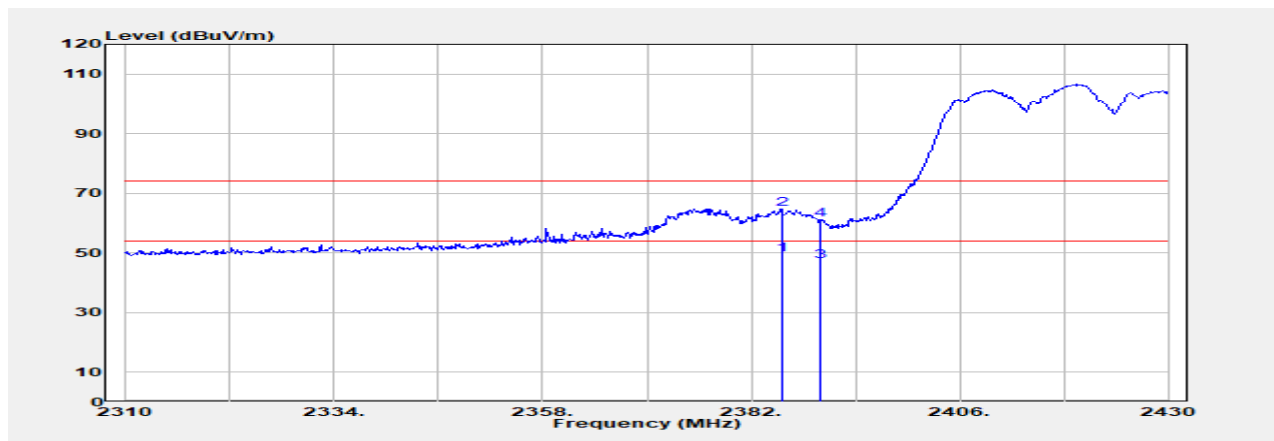
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Report Number :E2/2022/30009
 Operation Mode :802.11ac40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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
2385.480	Average	53.16	-3.78	49.38	54.00	-4.62
2385.480	Peak	68.48	-3.78	64.70	74.00	-9.30
2390.000	Average	50.81	-3.80	47.01	54.00	-6.99
2390.000	Peak	64.81	-3.80	61.00	74.00	-13.00

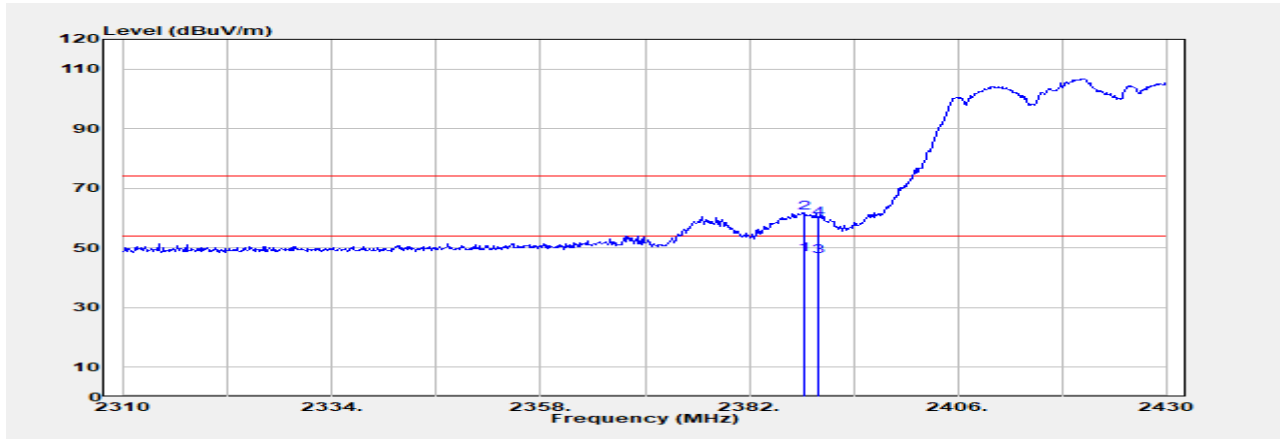
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Report Number :E2/2022/30009
 Operation Mode :802.11ac40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2388.360	Average	51.62	-3.79	47.83	54.00	-6.17
2388.360	Peak	65.60	-3.79	61.80	74.00	-12.20
2390.000	Average	51.08	-3.80	47.28	54.00	-6.72
2390.000	Peak	63.67	-3.80	59.87	74.00	-14.13

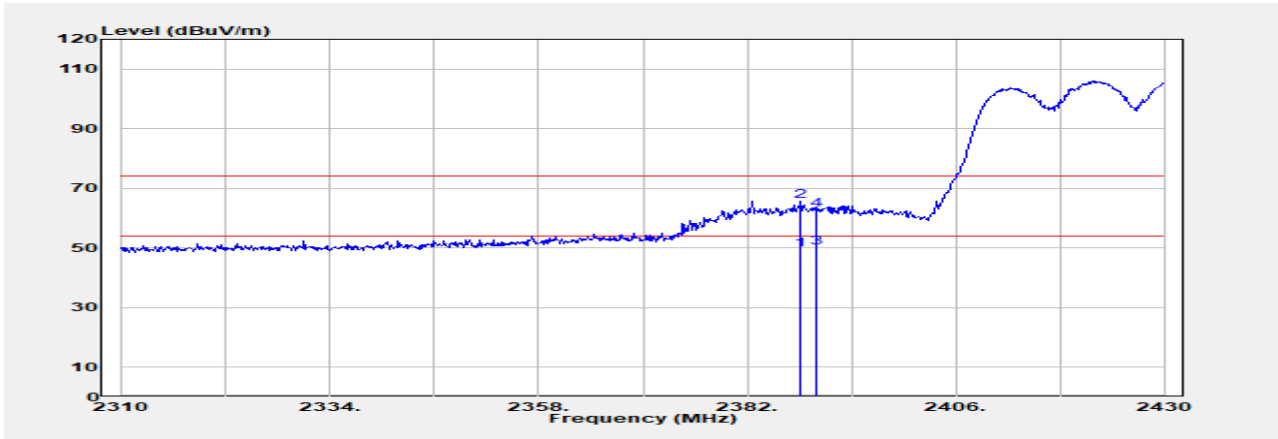
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Report Number :E2/2022/30009
 Operation Mode :802.11ac40
 Test Frequency :2427 MHz
 Test Mode :BE CH 4
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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
2388.120	Average	53.30	-3.79	49.50	54.00	-4.50
2388.120	Peak	69.55	-3.79	65.76	74.00	-8.24
2390.000	Average	53.98	-3.80	50.17	54.00	-3.83
2390.000	Peak	66.42	-3.80	62.62	74.00	-11.38

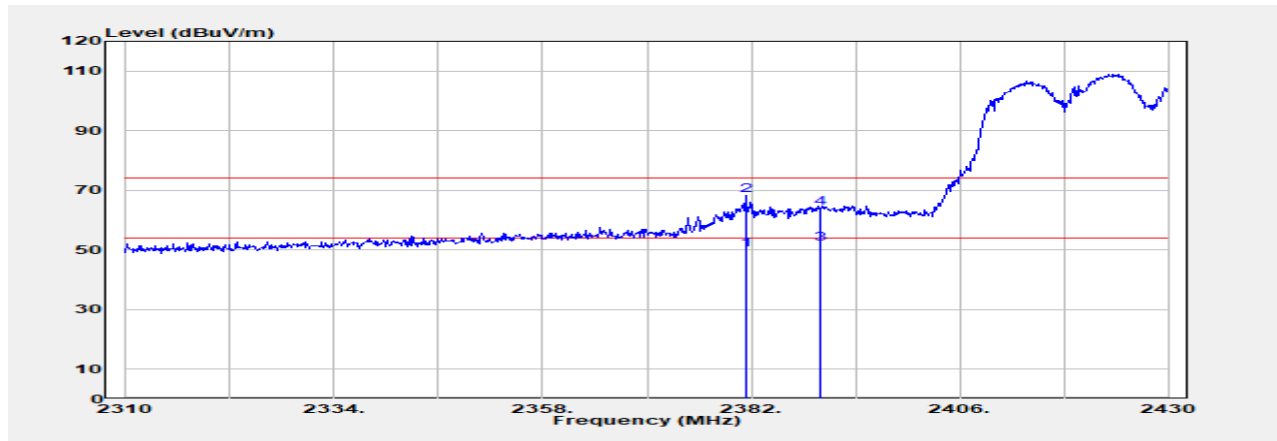
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Report Number :E2/2022/30009
 Operation Mode :802.11ac40
 Test Frequency :2427 MHz
 Test Mode :BE CH 4
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2381.400	Average	53.86	-3.77	50.10	54.00	-3.90
2381.400	Peak	71.97	-3.77	68.20	74.00	-5.80
2390.000	Average	55.80	-3.80	52.00	54.00	-2.00
2390.000	Peak	67.73	-3.80	63.93	74.00	-10.07

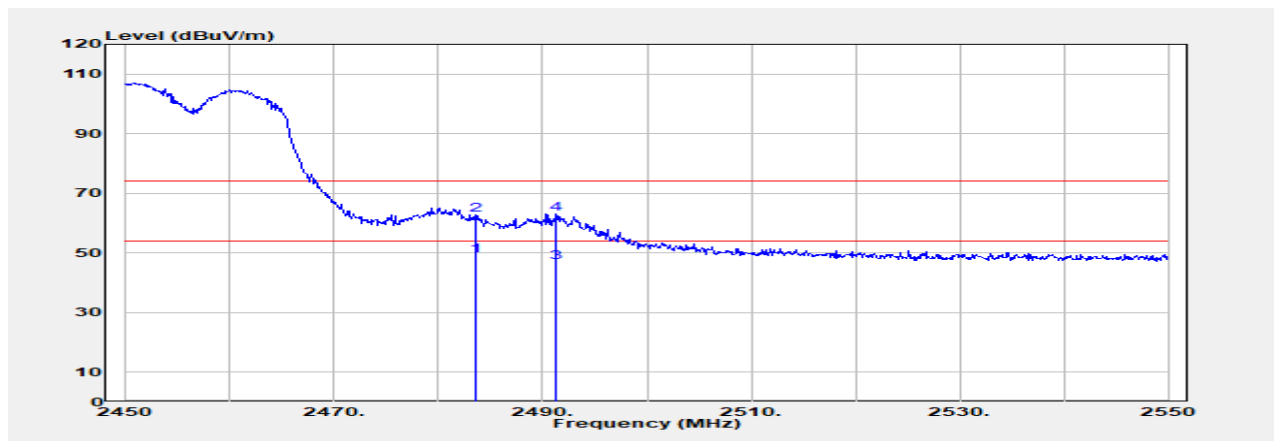
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Report Number :E2/2022/30009
 Operation Mode :802.11ac40
 Test Frequency :2447 MHz
 Test Mode :BE CH 8
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.500	Average	52.93	-3.92	49.01	54.00	-4.99
2483.500	Peak	66.53	-3.92	62.61	74.00	-11.39
2491.300	Average	50.63	-3.88	46.75	54.00	-7.25
2491.300	Peak	66.96	-3.88	63.08	74.00	-10.92

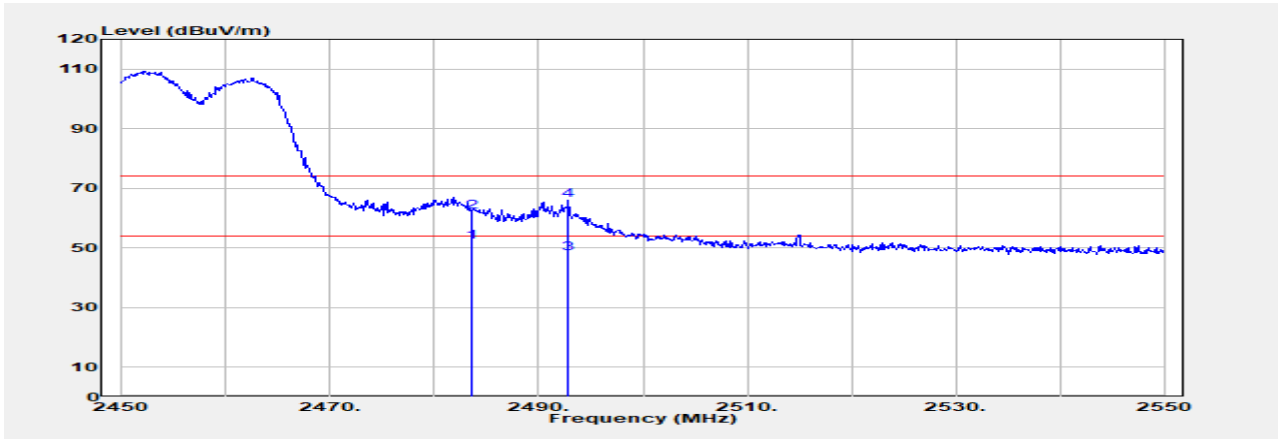
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Report Number :E2/2022/30009
 Operation Mode :802.11ac40
 Test Frequency :2447 MHz
 Test Mode :BE CH 8
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



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	55.80	-3.92	51.89	54.00	-2.11
2483.500	Peak	65.94	-3.92	62.02	74.00	-11.98
2492.800	Average	51.93	-3.87	48.05	54.00	-5.95
2492.800	Peak	69.83	-3.87	65.96	74.00	-8.04

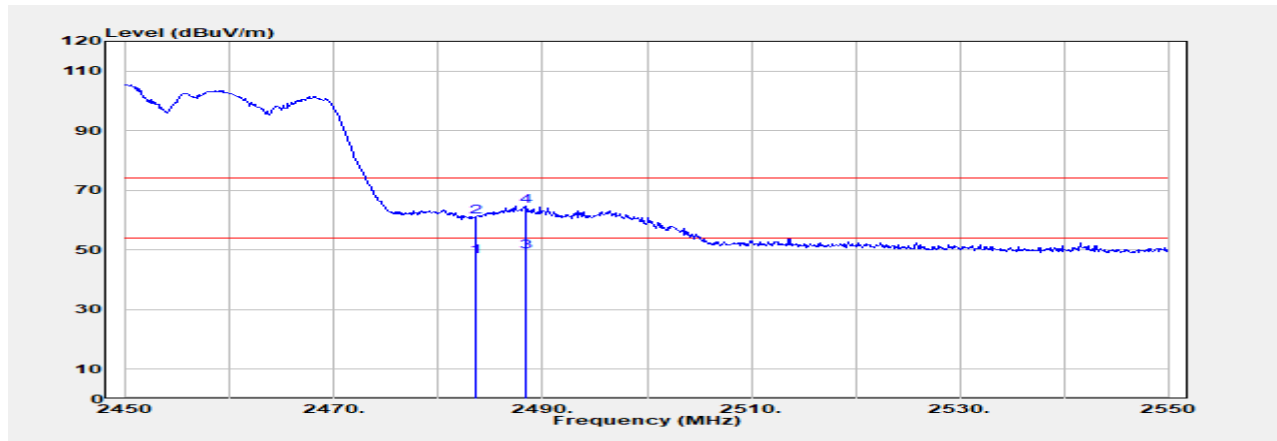
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Report Number :E2/2022/30009
 Operation Mode :802.11ac40
 Test Frequency :2452 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	51.70	-3.92	47.78	54.00	-6.22
2483.500	Peak	65.12	-3.92	61.20	74.00	-12.80
2488.300	Average	53.21	-3.89	49.32	54.00	-4.68
2488.300	Peak	68.67	-3.89	64.78	74.00	-9.22

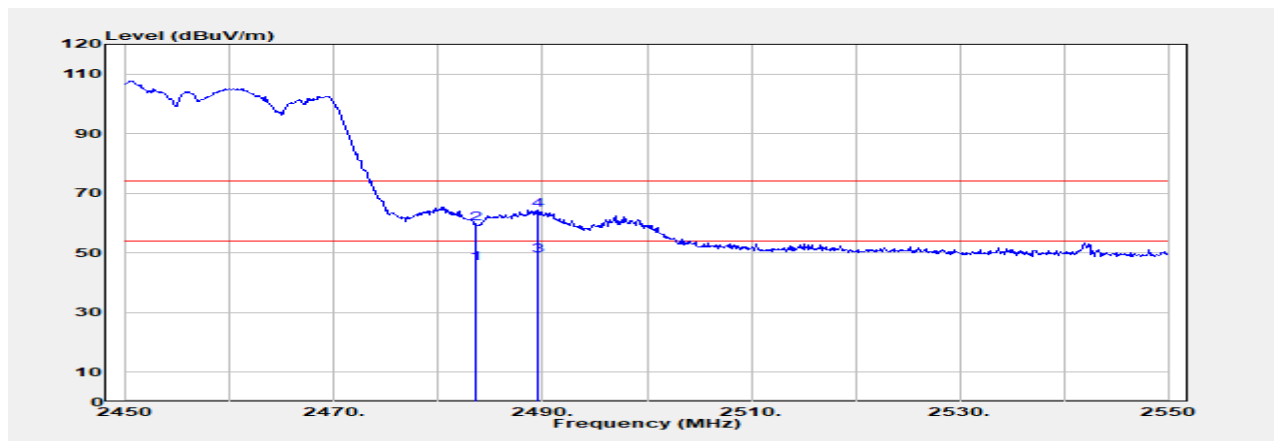
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Report Number :E2/2022/30009
 Operation Mode :802.11ac40
 Test Frequency :2452 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-21
 Temp./Humi. :21.0/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	50.40	-3.92	46.48	54.00	-7.52
2483.500	Peak	63.61	-3.92	59.69	74.00	-14.31
2489.600	Average	52.97	-3.88	49.08	54.00	-4.92
2489.600	Peak	68.40	-3.88	64.52	74.00	-9.48

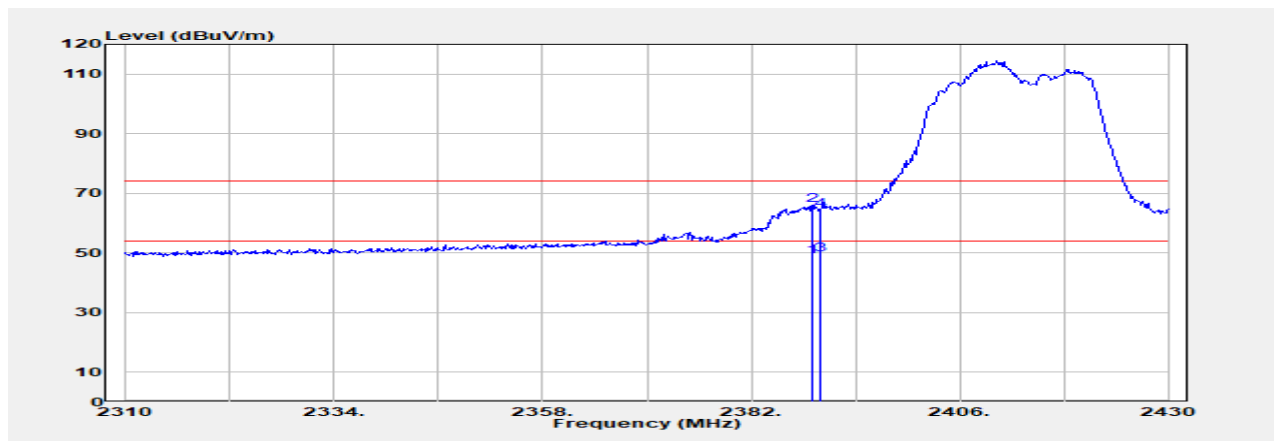
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2388.960	Average	52.55	-3.80	48.75	54.00	-5.25
2388.960	Peak	69.75	-3.80	65.95	74.00	-8.05
2390.000	Average	53.21	-3.80	49.41	54.00	-4.59
2390.000	Peak	68.19	-3.80	64.39	74.00	-9.61

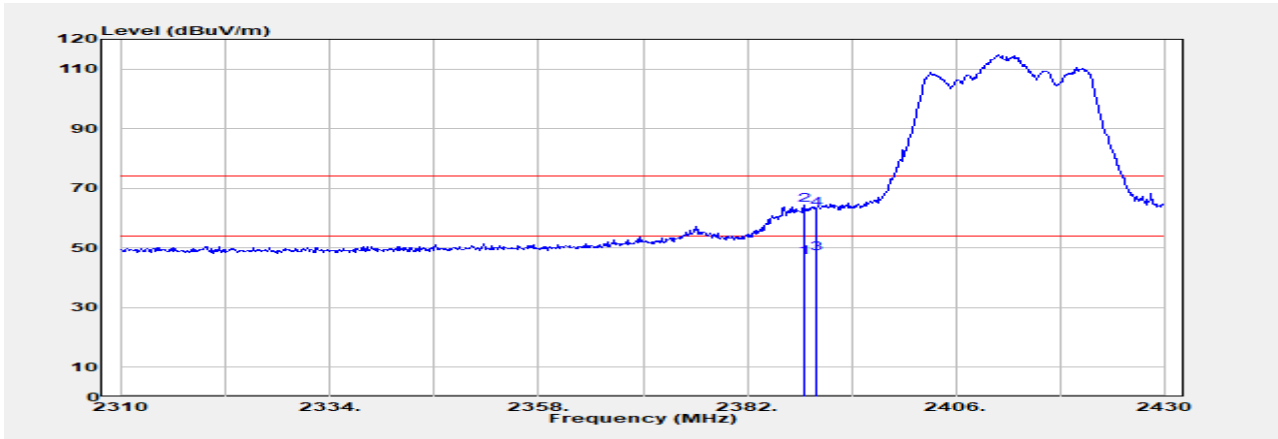
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



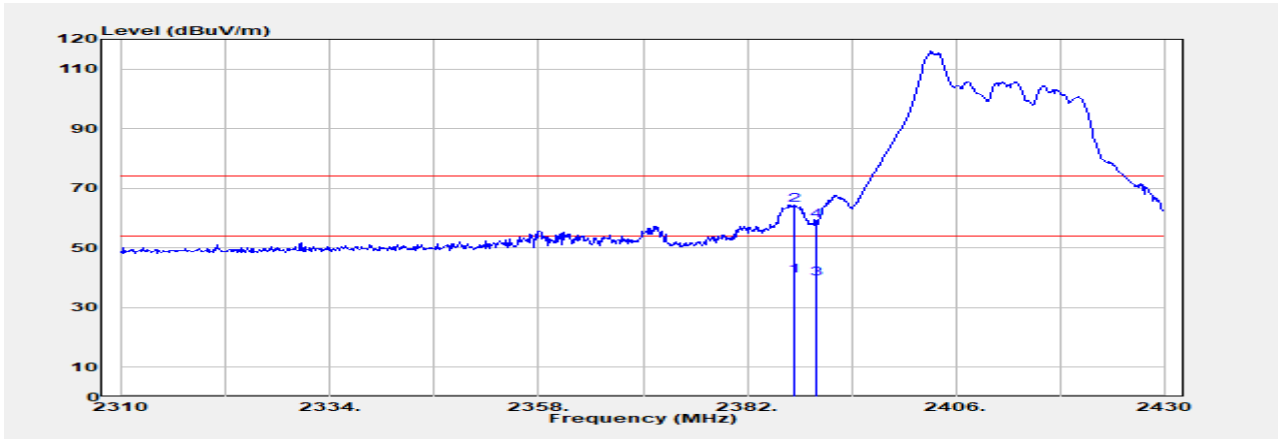
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2388.480	Average	50.49	-3.79	46.69	54.00	-7.31
2388.480	Peak	68.21	-3.79	64.42	74.00	-9.58
2390.000	Average	51.95	-3.80	48.15	54.00	-5.85
2390.000	Peak	66.88	-3.80	63.08	74.00	-10.92

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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU 26/0
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



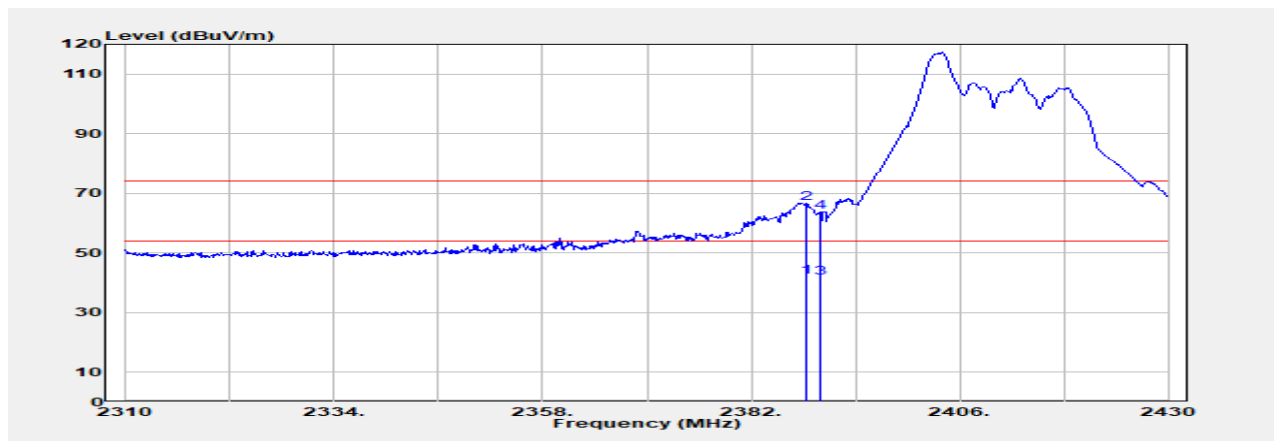
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2387.400	Average	44.51	-3.79	40.72	54.00	-13.28
2387.400	Peak	68.19	-3.79	64.40	74.00	-9.60
2390.000	Average	43.51	-3.80	39.71	54.00	-14.29
2390.000	Peak	62.95	-3.80	59.15	74.00	-14.85

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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU 26/0
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2388.360	Average	45.82	-3.79	42.03	54.00	-11.97
2388.360	Peak	70.49	-3.79	66.70	74.00	-7.30
2390.000	Average	45.31	-3.80	41.50	54.00	-12.50
2390.000	Peak	67.64	-3.80	63.84	74.00	-10.16

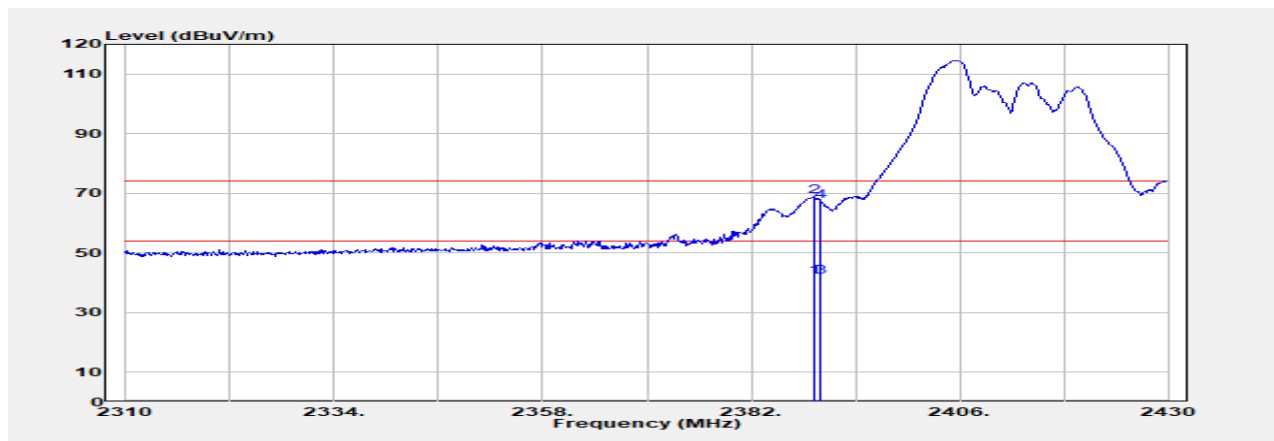
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU 52/37
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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
2389.200	Average	45.73	-3.80	41.93	54.00	-12.07
2389.200	Peak	72.81	-3.80	69.01	74.00	-4.99
2390.000	Average	45.67	-3.80	41.87	54.00	-12.13
2390.000	Peak	71.20	-3.80	67.40	74.00	-6.60

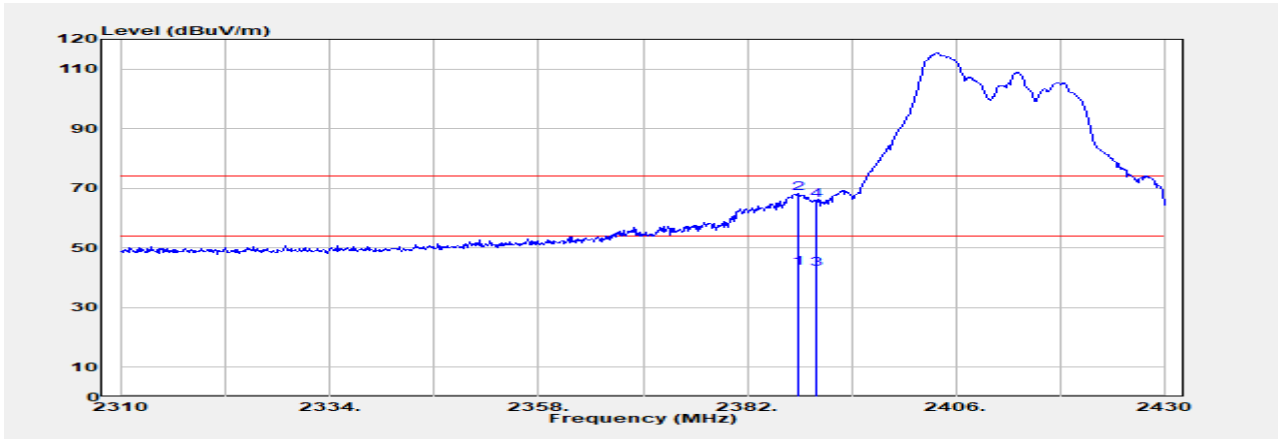
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU 52/37
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2387.880	Average	46.96	-3.79	43.17	54.00	-10.83
2387.880	Peak	72.08	-3.79	68.29	74.00	-5.71
2390.000	Average	46.73	-3.80	42.93	54.00	-11.07
2390.000	Peak	69.87	-3.80	66.06	74.00	-7.94

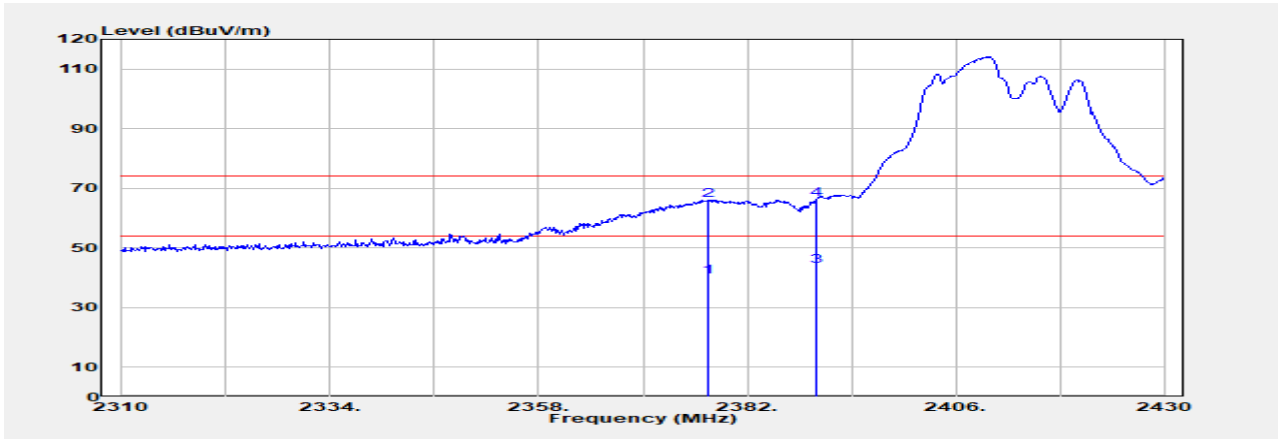
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU 106/53
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



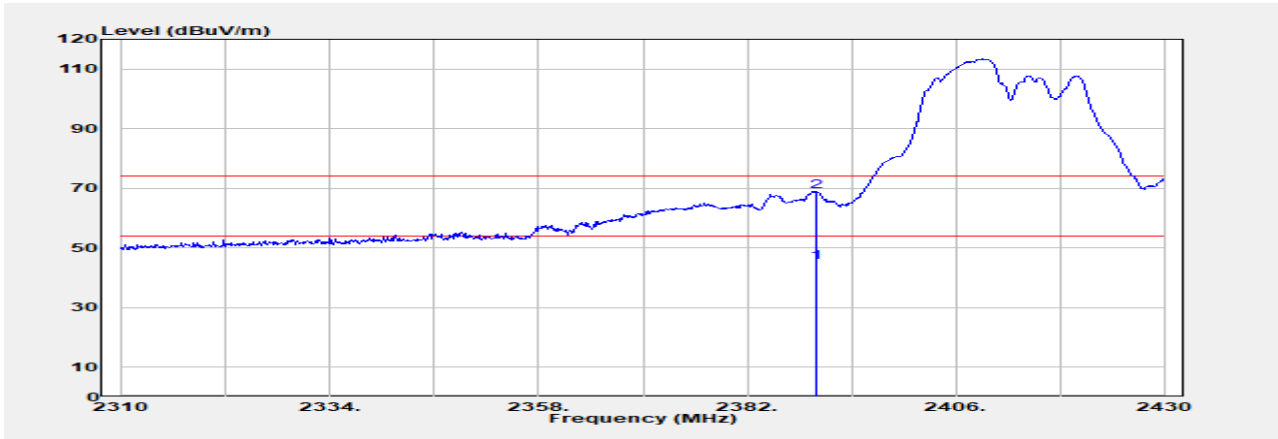
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2377.560	Average	44.17	-3.74	40.43	54.00	-13.57
2377.560	Peak	69.78	-3.74	66.04	74.00	-7.96
2390.000	Average	47.78	-3.80	43.98	54.00	-10.02
2390.000	Peak	70.09	-3.80	66.29	74.00	-7.71

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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU 106/53
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.000	Average	49.12	-3.80	45.32	54.00	-8.68
2390.000	Peak	72.89	-3.80	69.09	74.00	-4.91

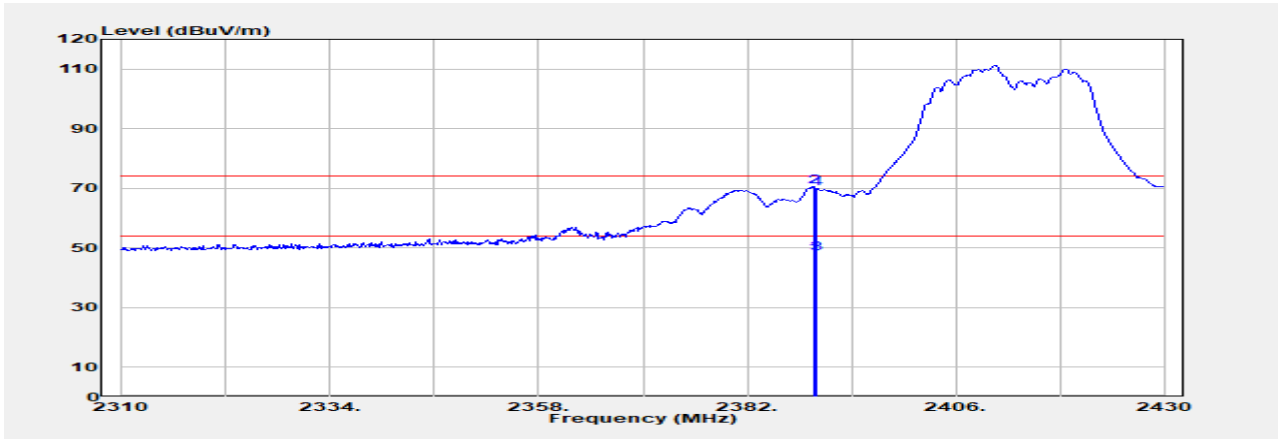
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU 242/61
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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
2389.680	Average	51.65	-3.80	47.85	54.00	-6.15
2389.680	Peak	74.25	-3.80	70.45	74.00	-3.55
2390.000	Average	52.05	-3.80	48.25	54.00	-5.75
2390.000	Peak	73.76	-3.80	69.96	74.00	-4.04

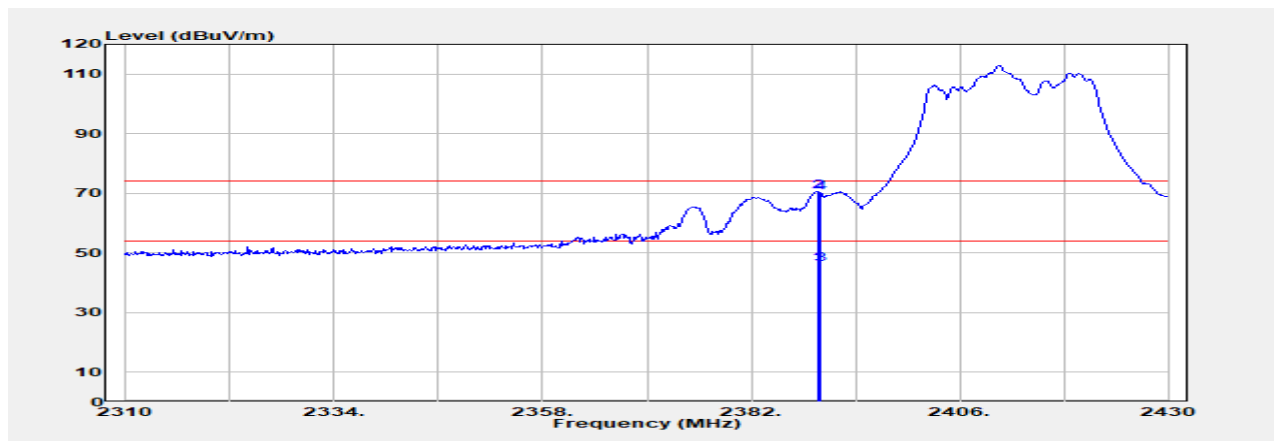
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW RU 242/61
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2389.680	Average	49.97	-3.80	46.17	54.00	-7.83
2389.680	Peak	74.35	-3.80	70.55	74.00	-3.45
2390.000	Average	50.11	-3.80	46.30	54.00	-7.70
2390.000	Peak	73.95	-3.80	70.15	74.00	-3.85

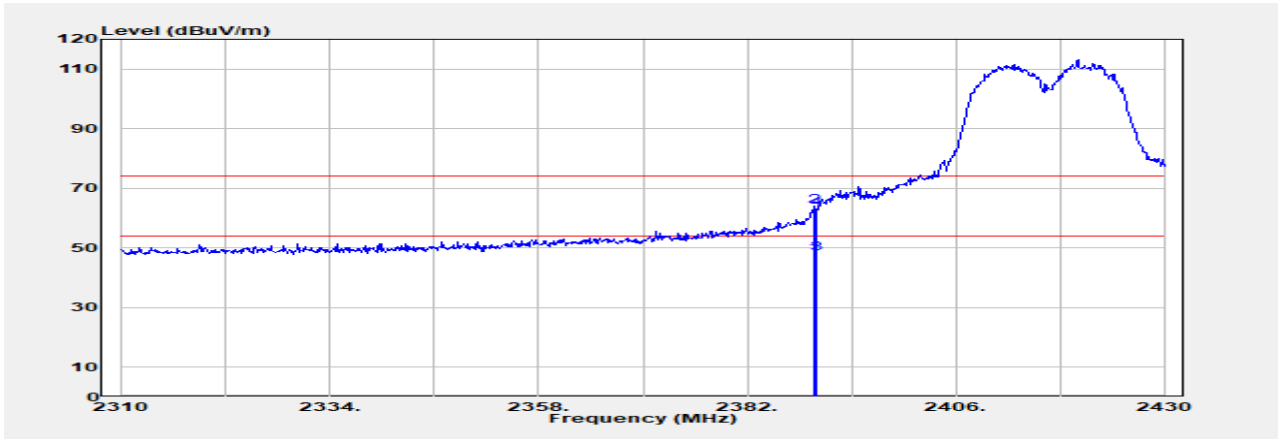
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2417 MHz
 Test Mode :BE CH 2 RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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
2389.680	Average	51.55	-3.80	47.75	54.00	-6.25
2389.680	Peak	67.99	-3.80	64.19	74.00	-9.81
2390.000	Average	52.05	-3.80	48.25	54.00	-5.75
2390.000	Peak	66.95	-3.80	63.15	74.00	-10.85

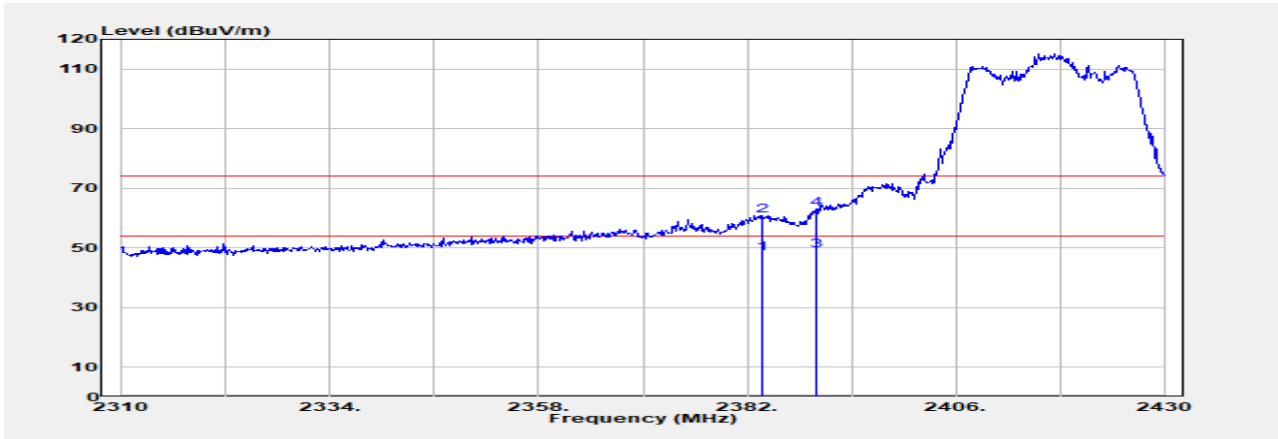
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2417 MHz
 Test Mode :BE CH 2 RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



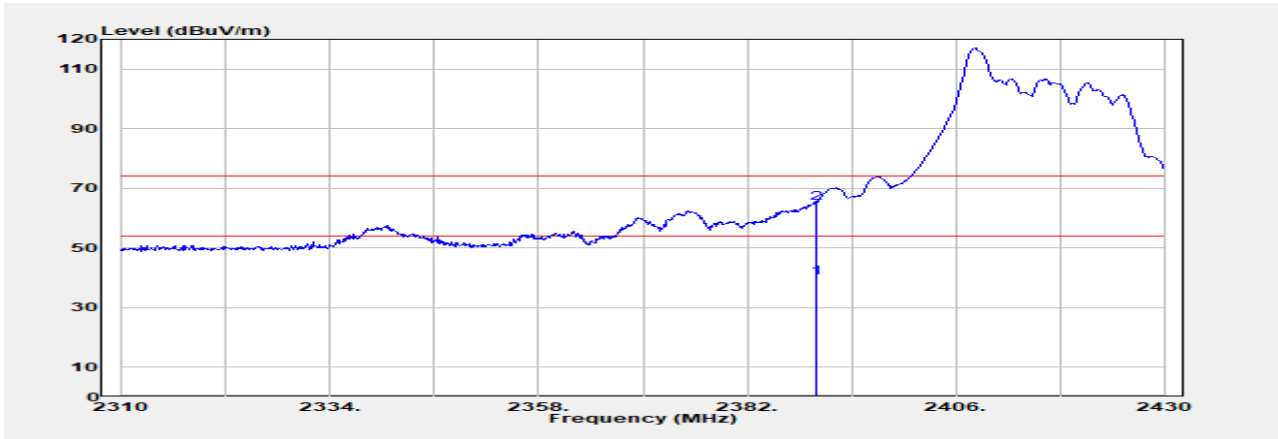
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2383.680	Average	51.82	-3.78	48.04	54.00	-5.96
2383.680	Peak	64.70	-3.78	60.93	74.00	-13.07
2390.000	Average	52.93	-3.80	49.13	54.00	-4.87
2390.000	Peak	66.80	-3.80	62.99	74.00	-11.01

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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2417 MHz
 Test Mode :BE CH 2 RU 26/0
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



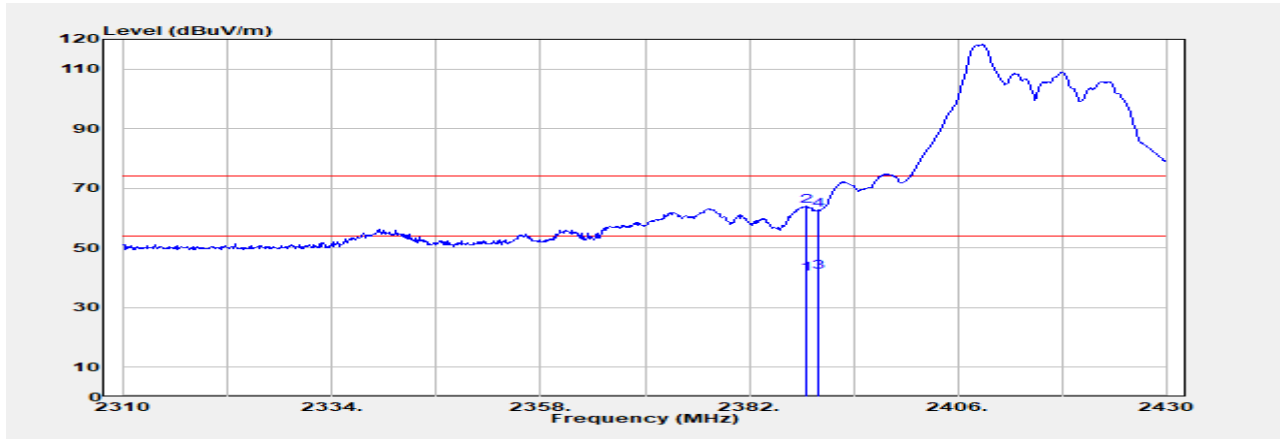
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	43.96	-3.80	40.16	54.00	-13.84
2390.000	Peak	68.95	-3.80	65.14	74.00	-8.86

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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2417 MHz
 Test Mode :BE CH 2 RU 26/0
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



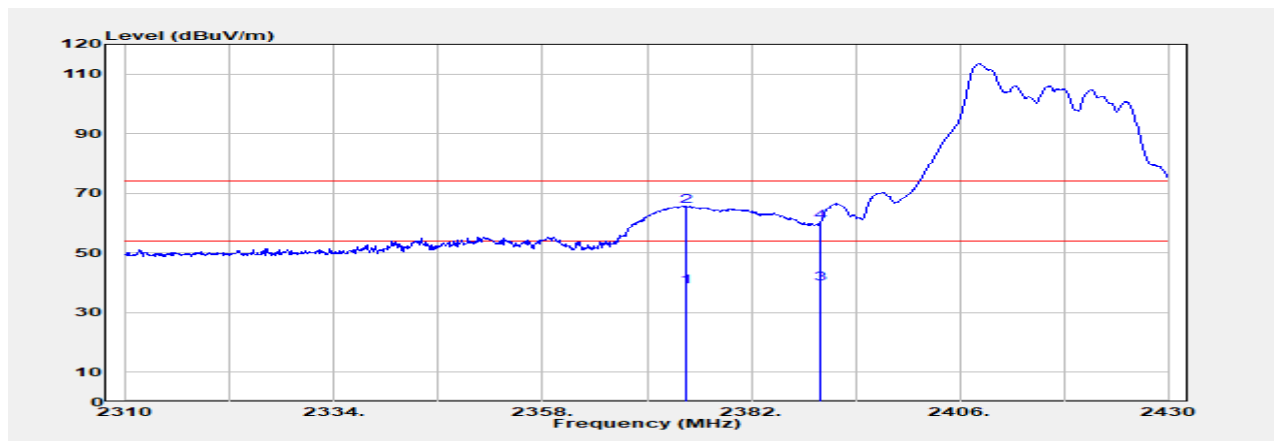
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2388.480	Average	45.24	-3.79	41.45	54.00	-12.55
2388.480	Peak	67.95	-3.79	64.16	74.00	-9.84
2390.000	Average	45.64	-3.80	41.84	54.00	-12.16
2390.000	Peak	66.58	-3.80	62.78	74.00	-11.22

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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2417 MHz
 Test Mode :BE CH 2 RU 52/37
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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
2374.440	Average	42.55	-3.72	38.83	54.00	-15.17
2374.440	Peak	69.46	-3.72	65.75	74.00	-8.25
2390.000	Average	43.58	-3.80	39.78	54.00	-14.22
2390.000	Peak	64.31	-3.80	60.51	74.00	-13.49

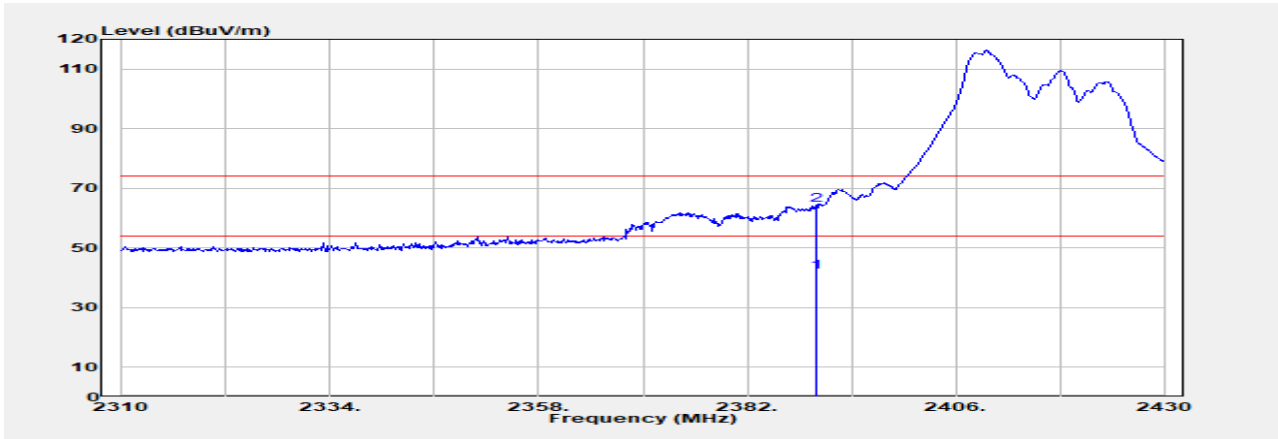
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2417 MHz
 Test Mode :BE CH 2 RU 52/37
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



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
2390.000	Average	45.71	-3.80	41.91	54.00	-12.09
2390.000	Peak	68.19	-3.80	64.38	74.00	-9.62

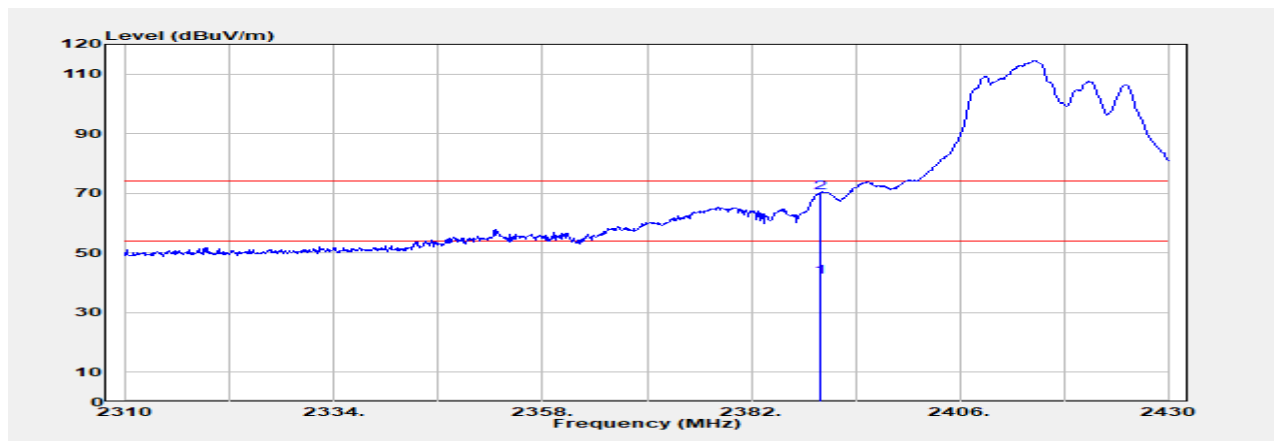
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2417 MHz
 Test Mode :BE CH 2 RU 106/53
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2390.000	Average	45.90	-3.80	42.10	54.00	-11.90
2390.000	Peak	74.04	-3.80	70.24	74.00	-3.76

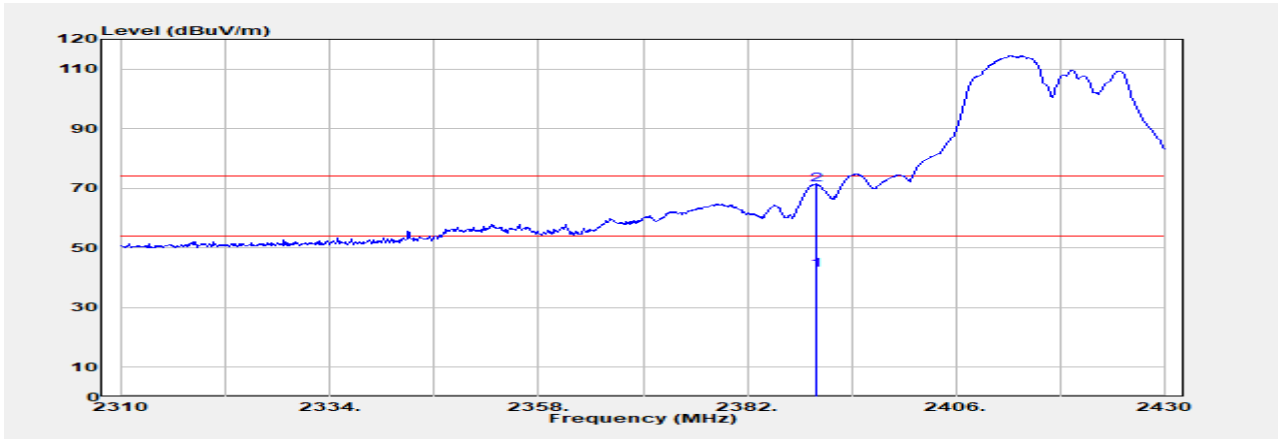
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2417 MHz
 Test Mode :BE CH 2 RU 106/53
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



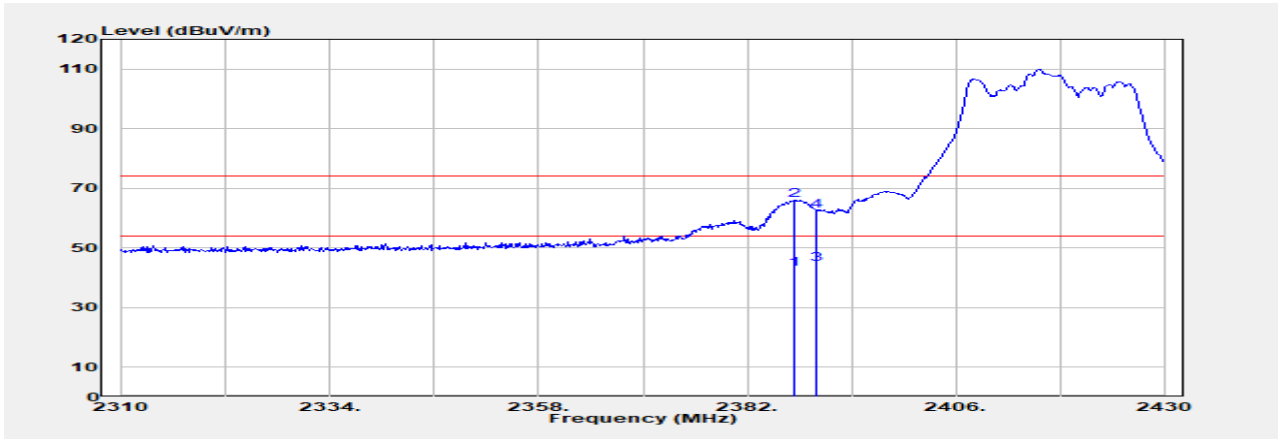
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.000	Average	46.56	-3.80	42.76	54.00	-11.24
2390.000	Peak	75.11	-3.80	71.31	74.00	-2.69

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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2417 MHz
 Test Mode :BE CH 2 RU 242/61
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



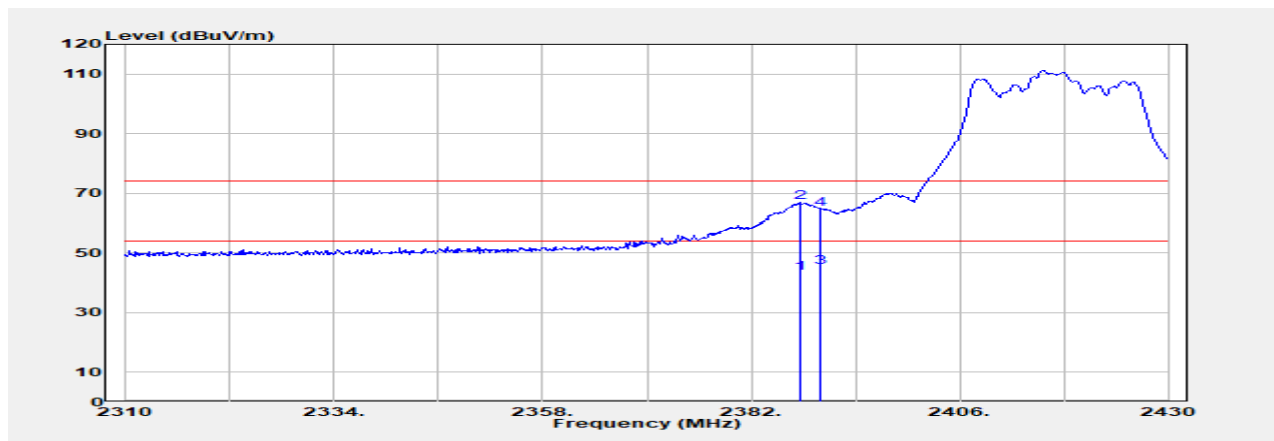
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2387.520	Average	46.61	-3.79	42.82	54.00	-11.18
2387.520	Peak	69.81	-3.79	66.02	74.00	-7.98
2390.000	Average	48.33	-3.80	44.53	54.00	-9.47
2390.000	Peak	66.23	-3.80	62.43	74.00	-11.57

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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2417 MHz
 Test Mode :BE CH 2 RU 242/61
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



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
2387.640	Average	47.05	-3.79	43.26	54.00	-10.74
2387.640	Peak	70.74	-3.79	66.95	74.00	-7.05
2390.000	Average	49.05	-3.80	45.25	54.00	-8.75
2390.000	Peak	68.63	-3.80	64.82	74.00	-9.18

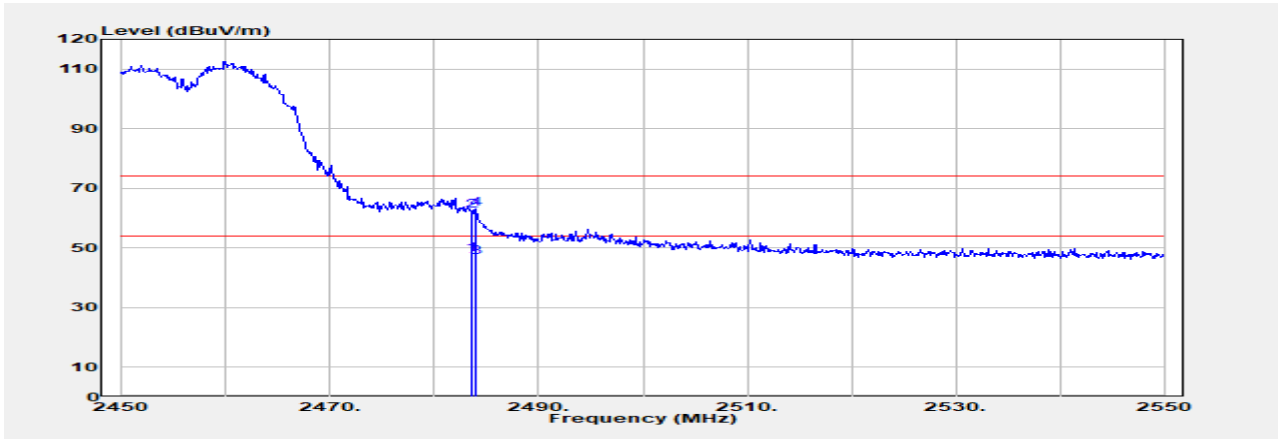
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10 RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



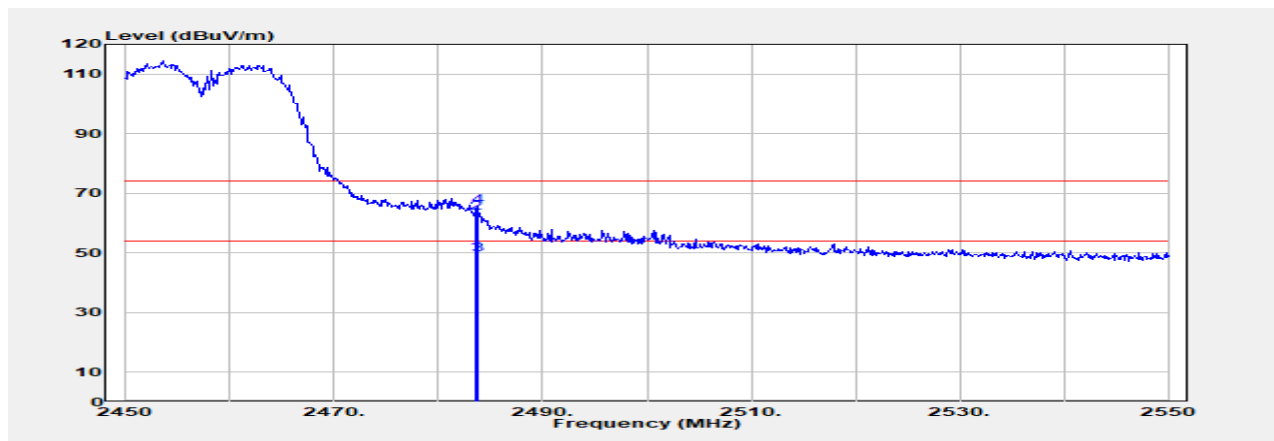
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	51.59	-3.92	47.68	54.00	-6.32
2483.500	Peak	66.43	-3.92	62.52	74.00	-11.48
2484.000	Average	50.78	-3.92	46.86	54.00	-7.14
2484.000	Peak	66.86	-3.92	62.94	74.00	-11.06

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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10 RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.500	Average	53.55	-3.92	49.63	54.00	-4.37
2483.500	Peak	67.19	-3.92	63.27	74.00	-10.73
2483.700	Average	53.38	-3.92	49.46	54.00	-4.54
2483.700	Peak	69.57	-3.92	65.65	74.00	-8.35

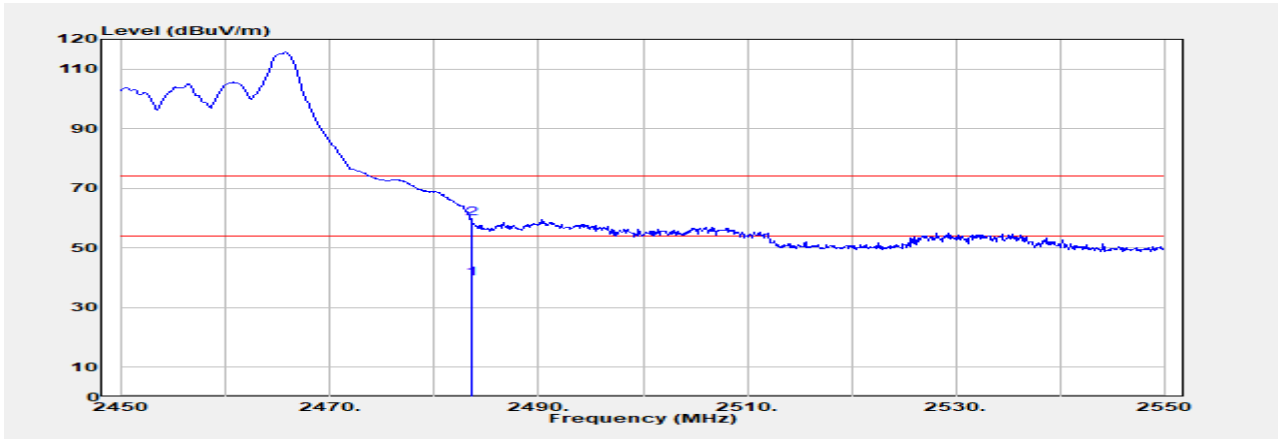
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10 RU 26/8
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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	43.45	-3.92	39.53	54.00	-14.47
2483.500	Peak	63.60	-3.92	59.68	74.00	-14.32

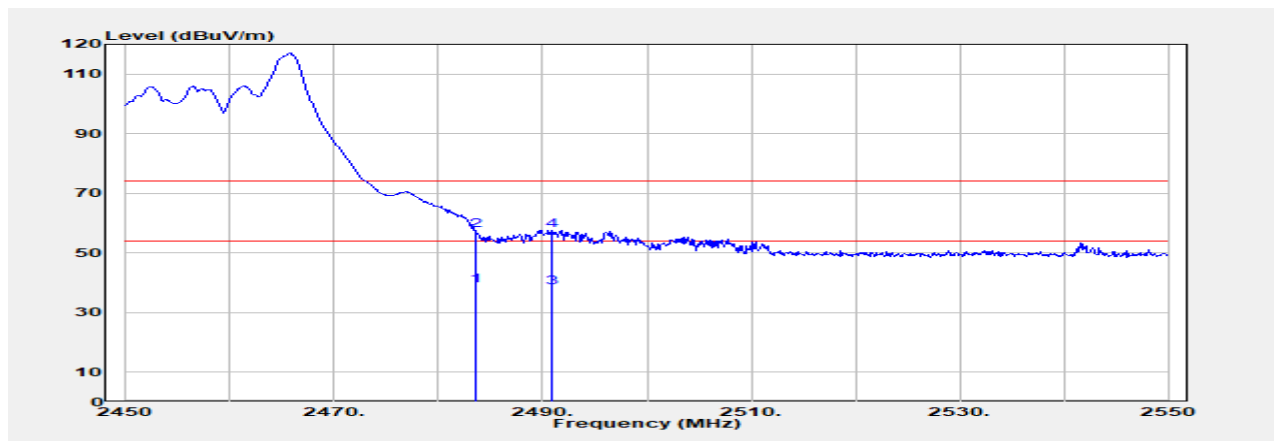
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10 RU 26/8
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	43.05	-3.92	39.13	54.00	-14.87
2483.500	Peak	61.34	-3.92	57.42	74.00	-16.58
2490.800	Average	42.27	-3.88	38.39	54.00	-15.61
2490.800	Peak	61.58	-3.88	57.70	74.00	-16.30

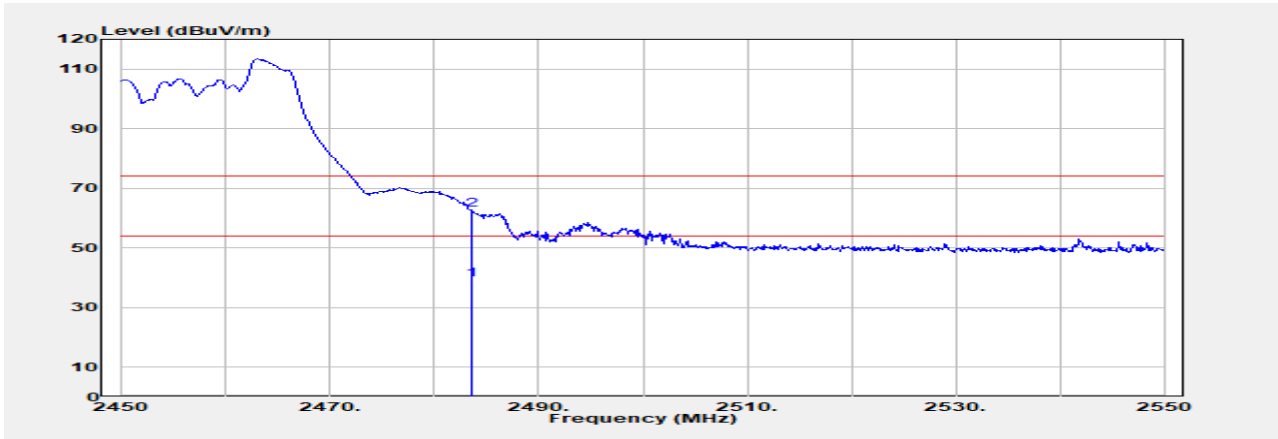
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10 RU 52/40
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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	43.30	-3.92	39.38	54.00	-14.62
2483.500	Peak	66.69	-3.92	62.77	74.00	-11.23

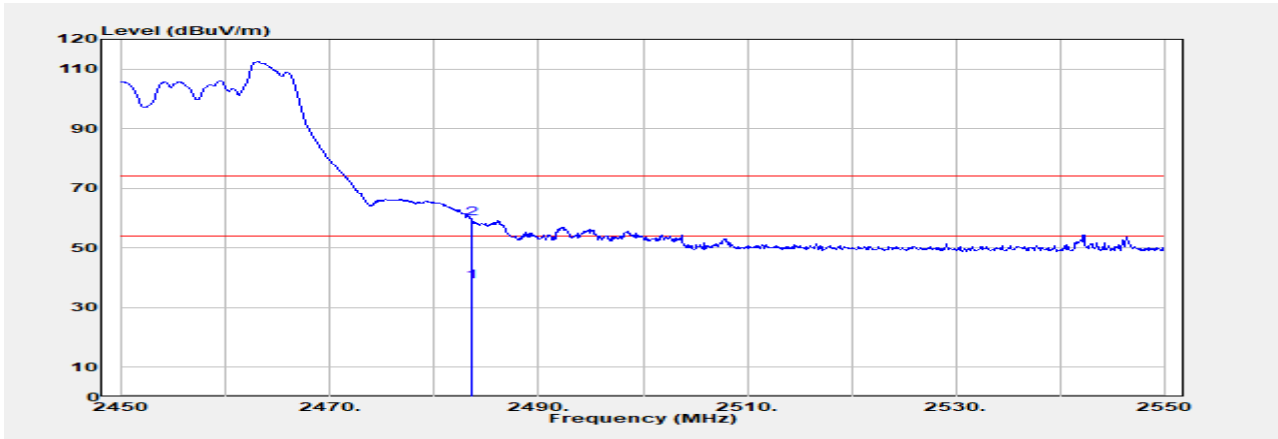
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10 RU 52/40
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



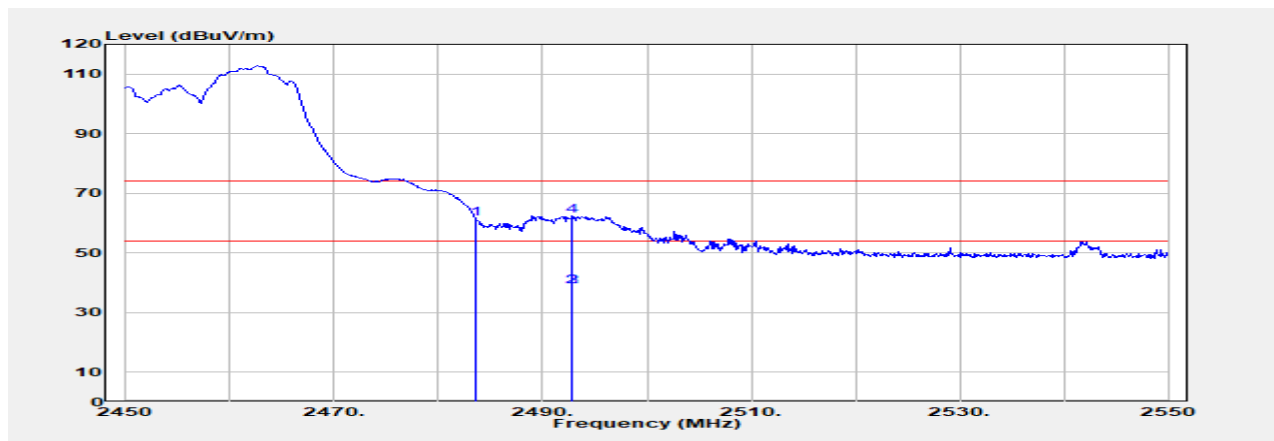
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.500	Average	42.57	-3.92	38.65	54.00	-15.35
2483.500	Peak	63.78	-3.92	59.87	74.00	-14.13

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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10 RU 106/54
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.500	Peak	65.36	-3.92	61.44	74.00	-12.56
2492.800	Average	42.70	-3.87	38.83	54.00	-15.17
2492.800	Average	42.68	-3.87	38.81	54.00	-15.19
2492.800	Peak	66.42	-3.87	62.55	74.00	-11.45

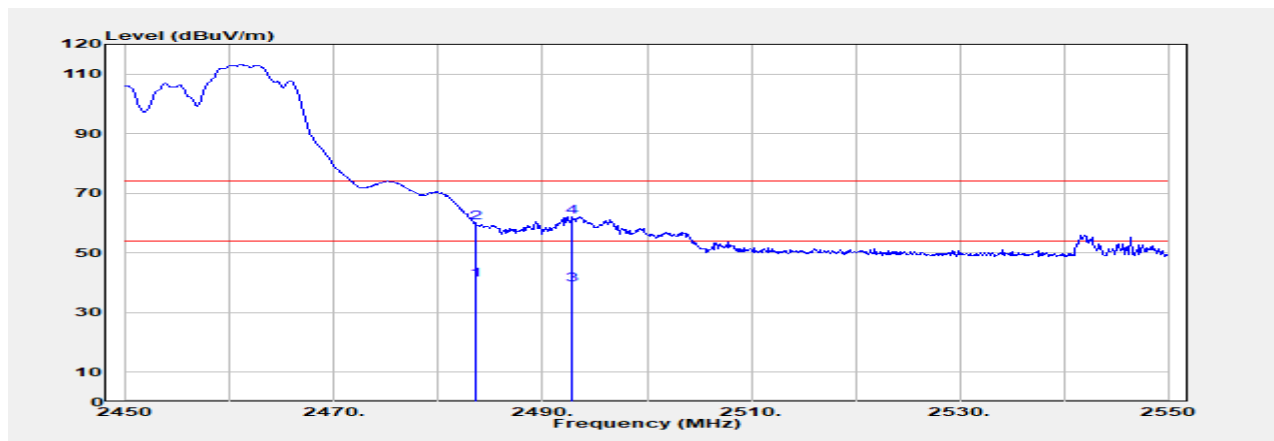
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10 RU 106/54
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.500	Average	44.77	-3.92	40.85	54.00	-13.15
2483.500	Peak	64.21	-3.92	60.29	74.00	-13.71
2492.800	Average	43.08	-3.87	39.21	54.00	-14.79
2492.800	Peak	66.11	-3.87	62.24	74.00	-11.76

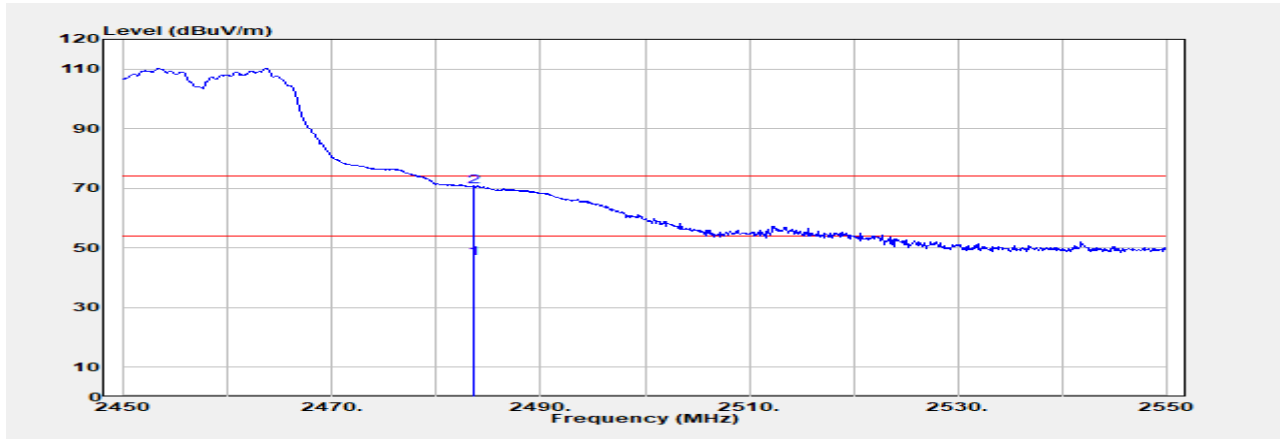
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10 RU 242/61
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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	50.29	-3.92	46.37	54.00	-7.63
2483.500	Peak	74.61	-3.92	70.69	74.00	-3.31

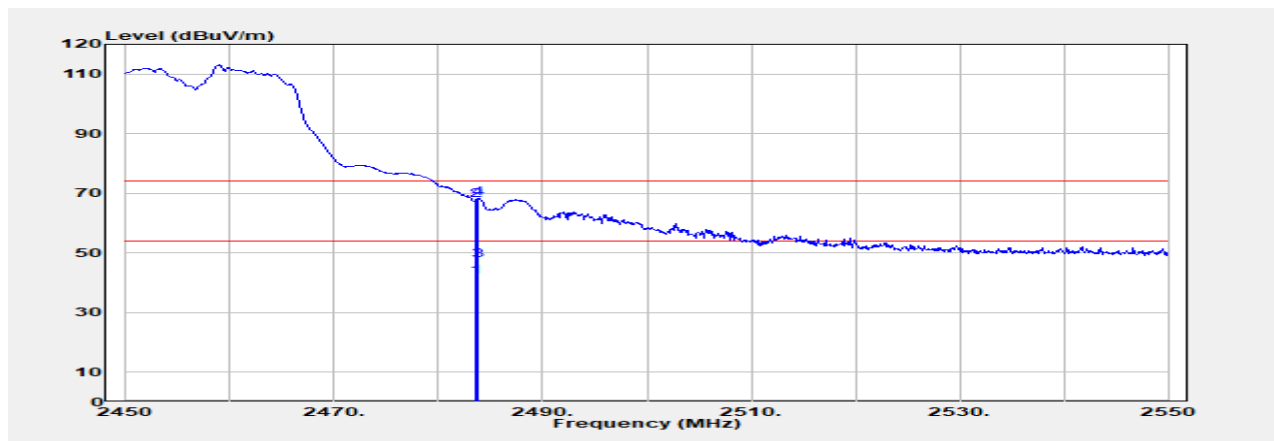
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10 RU 242/61
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



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	45.89	-3.92	41.98	54.00	-12.02
2483.500	Peak	71.46	-3.92	67.54	74.00	-6.46
2483.800	Average	51.55	-3.92	47.64	54.00	-6.36
2483.800	Peak	72.19	-3.92	68.28	74.00	-5.72

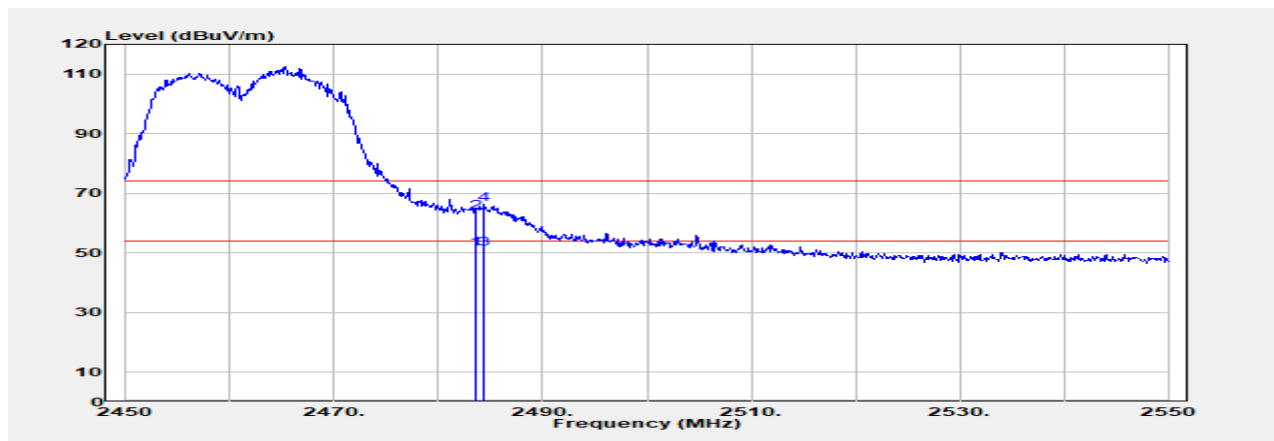
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	55.40	-3.92	51.48	54.00	-2.52
2483.500	Peak	67.56	-3.92	63.64	74.00	-10.36
2484.400	Average	55.18	-3.91	51.26	54.00	-2.74
2484.400	Peak	70.29	-3.91	66.38	74.00	-7.62

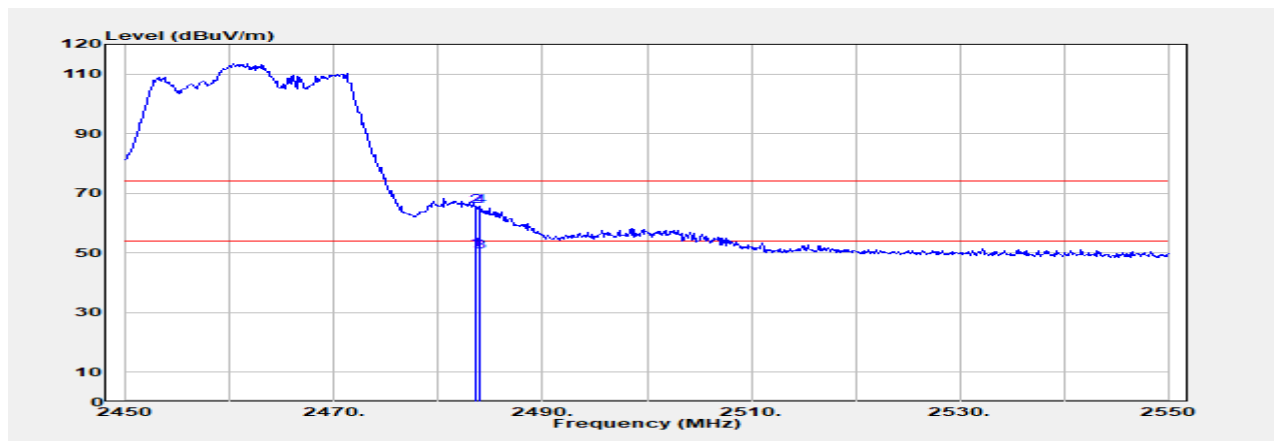
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



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	54.90	-3.92	50.98	54.00	-3.02
2483.500	Peak	69.55	-3.92	65.63	74.00	-8.37
2483.900	Average	54.29	-3.92	50.37	54.00	-3.63
2483.900	Peak	69.69	-3.92	65.77	74.00	-8.23

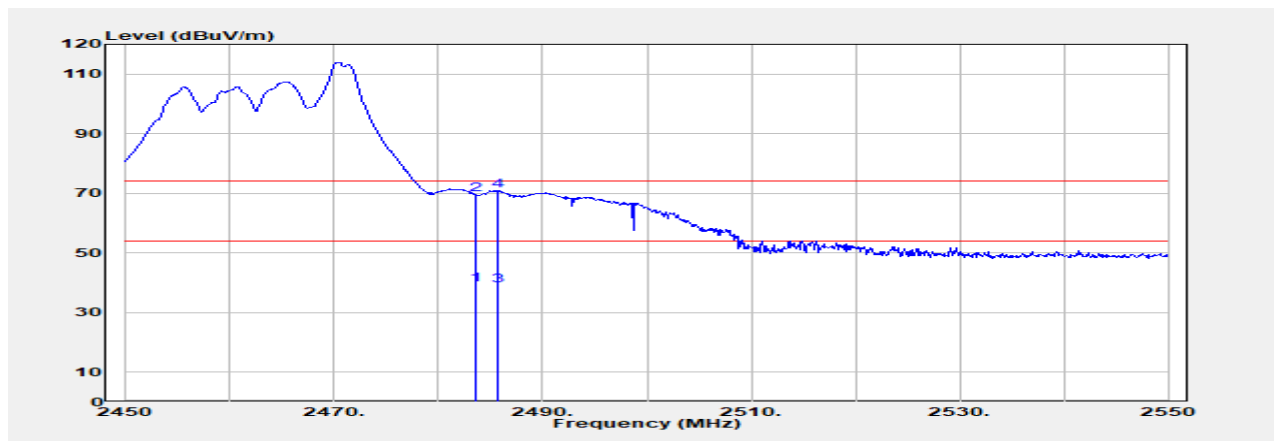
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH RU 26/8
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	43.18	-3.92	39.26	54.00	-14.74
2483.500	Peak	73.45	-3.92	69.53	74.00	-4.47
2485.600	Average	43.08	-3.91	39.17	54.00	-14.83
2485.600	Peak	74.77	-3.91	70.86	74.00	-3.14

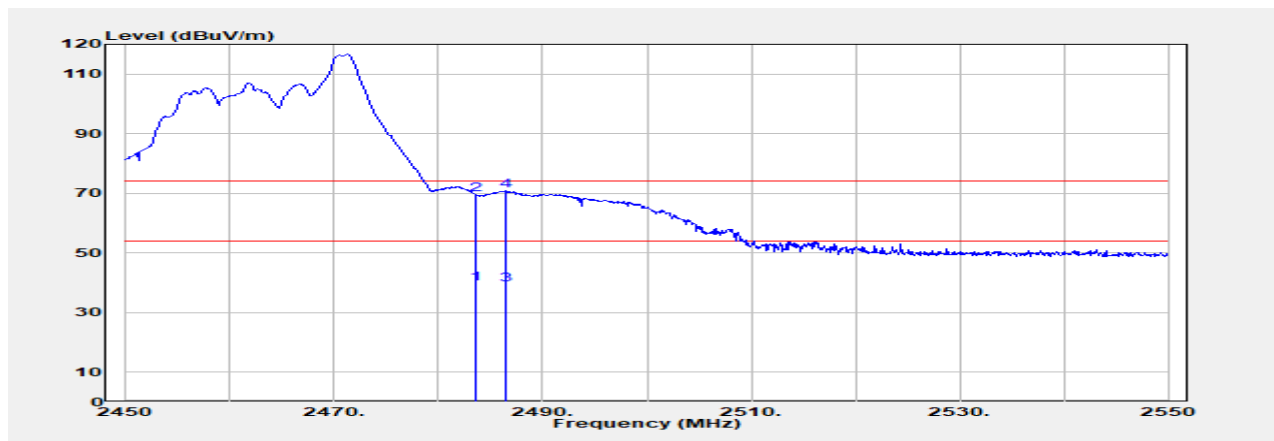
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH RU 26/8
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	43.58	-3.92	39.66	54.00	-14.34
2483.500	Peak	73.51	-3.92	69.59	74.00	-4.41
2486.400	Average	43.29	-3.90	39.39	54.00	-14.61
2486.400	Peak	74.65	-3.90	70.75	74.00	-3.25

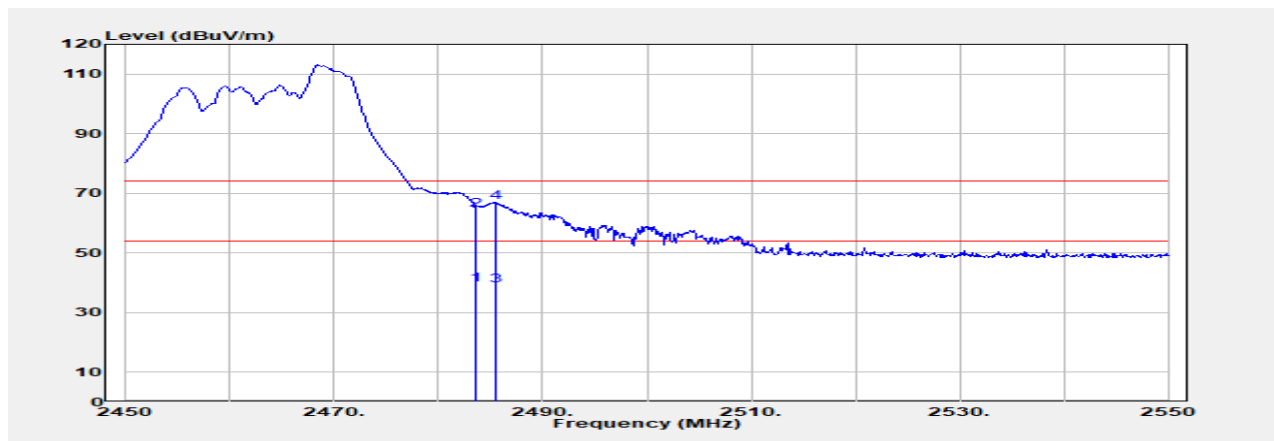
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH RU 52/40
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	43.23	-3.92	39.31	54.00	-14.69
2483.500	Peak	68.29	-3.92	64.37	74.00	-9.63
2485.400	Average	43.04	-3.91	39.13	54.00	-14.87
2485.400	Peak	70.95	-3.91	67.04	74.00	-6.96

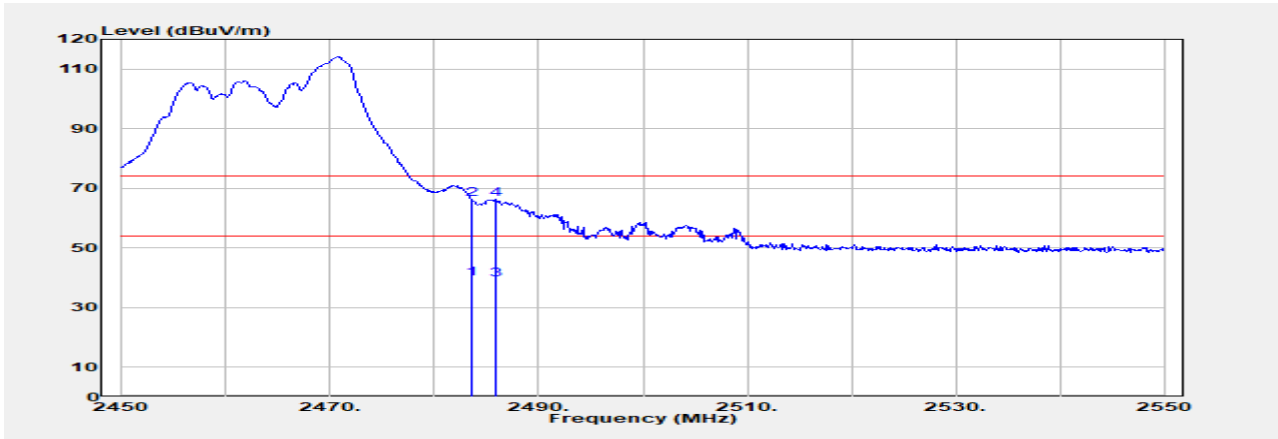
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH RU 52/40
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	43.69	-3.92	39.77	54.00	-14.23
2483.500	Peak	70.38	-3.92	66.46	74.00	-7.54
2485.800	Average	43.32	-3.91	39.42	54.00	-14.58
2485.800	Peak	70.31	-3.91	66.41	74.00	-7.59

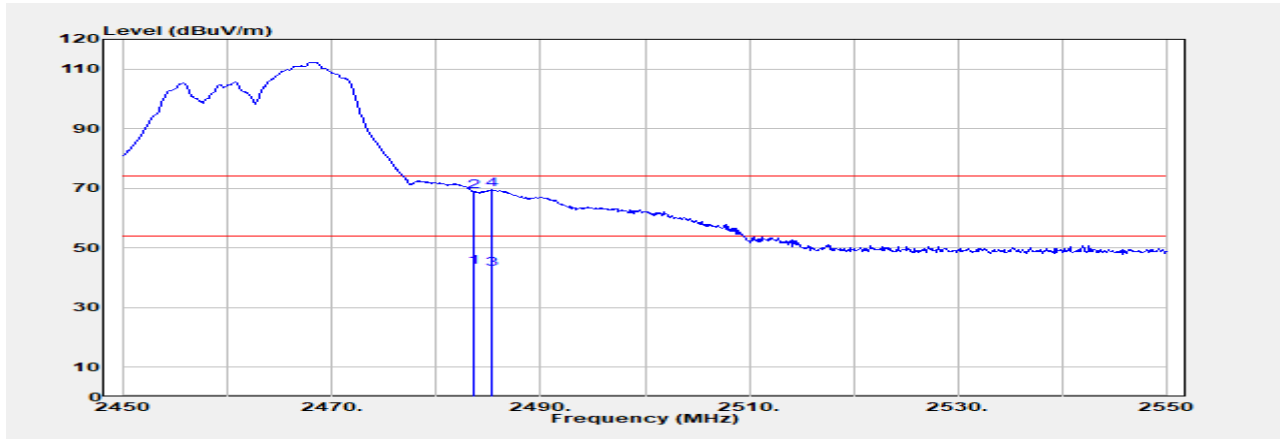
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH RU 106/54
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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	47.39	-3.92	43.47	54.00	-10.53
2483.500	Peak	72.80	-3.92	68.88	74.00	-5.12
2485.300	Average	46.81	-3.91	42.90	54.00	-11.10
2485.300	Peak	73.42	-3.91	69.52	74.00	-4.48

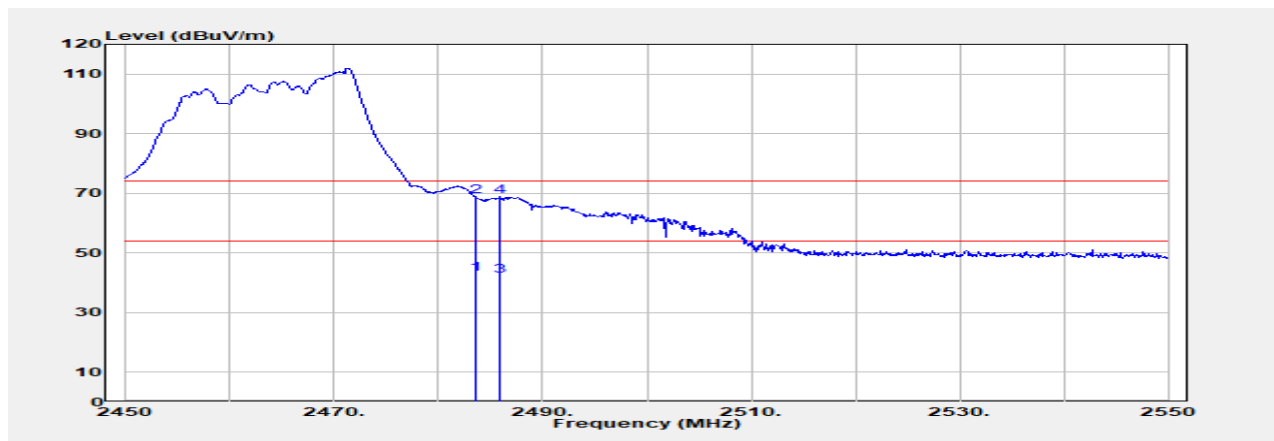
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Report Number :E2/2022/30009
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH RU 106/54
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



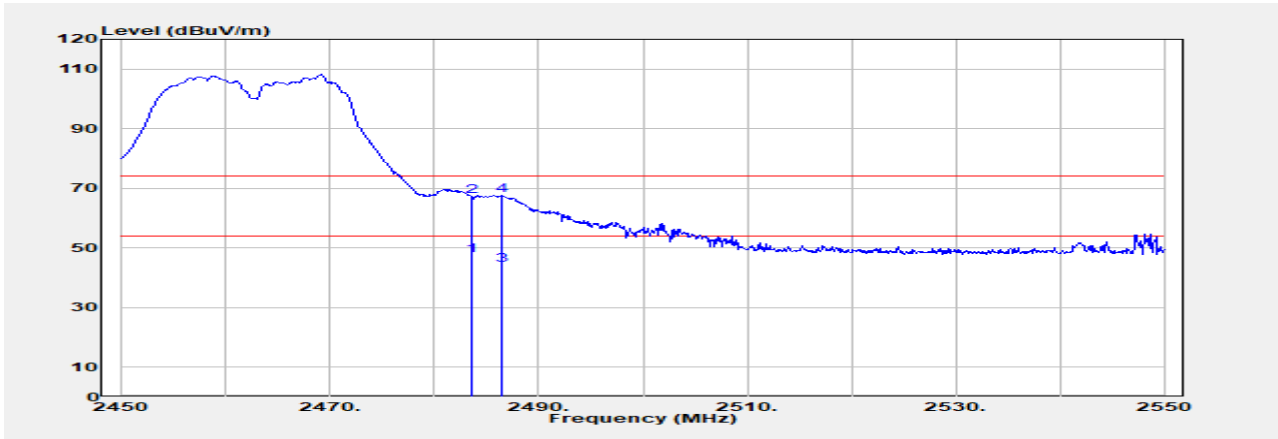
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	46.78	-3.92	42.86	54.00	-11.14
2483.500	Peak	72.78	-3.92	68.86	74.00	-5.14
2485.900	Average	46.30	-3.90	42.40	54.00	-11.60
2485.900	Peak	72.77	-3.90	68.86	74.00	-5.14

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Report Number	:E2/2022/30009	Test Site	:SAC G
Operation Mode	:802.11ax20	Test Date	:2022-03-22
Test Frequency	:2462 MHz	Temp./Humi.	:21.3/70
Test Mode	:BE CH HIGH RU 242/61	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Quentin



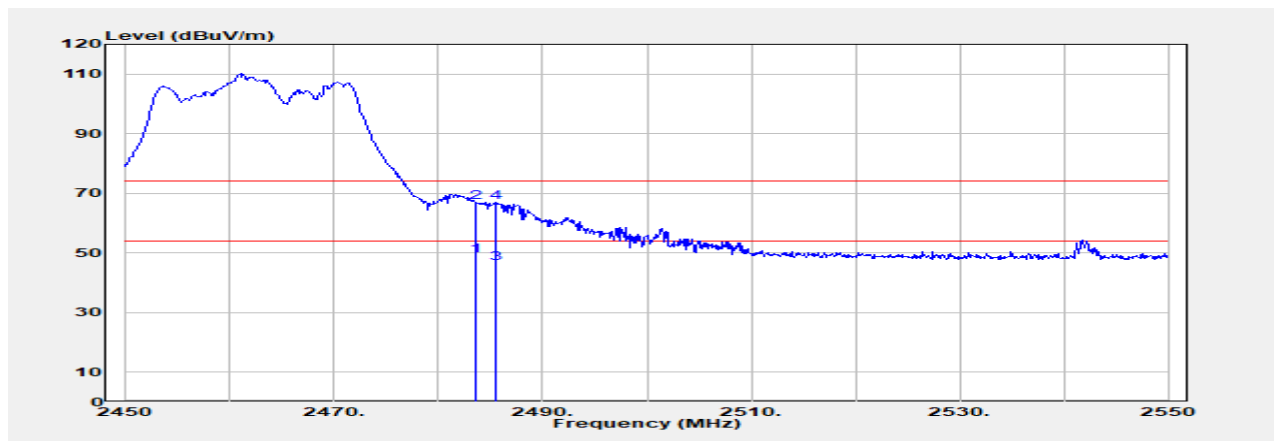
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	51.36	-3.92	47.44	54.00	-6.56
2483.500	Peak	71.21	-3.92	67.29	74.00	-6.71
2486.500	Average	48.23	-3.90	44.33	54.00	-9.67
2486.500	Peak	71.46	-3.90	67.56	74.00	-6.44

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Report Number	:E2/2022/30009	Test Site	:SAC G
Operation Mode	:802.11ax20	Test Date	:2022-03-22
Test Frequency	:2462 MHz	Temp./Humi.	:21.3/70
Test Mode	:BE CH HIGH RU 242/61	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.500	Average	52.90	-3.92	48.98	54.00	-5.02
2483.500	Peak	71.05	-3.92	67.13	74.00	-6.87
2485.400	Average	50.49	-3.91	46.58	54.00	-7.42
2485.400	Peak	70.92	-3.91	67.01	74.00	-6.99

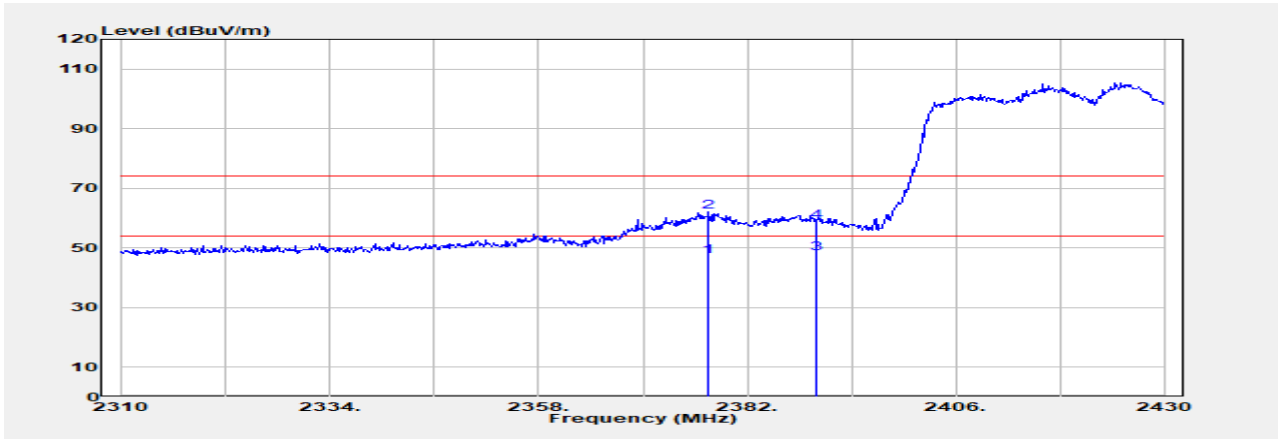
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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2377.560	Average	50.84	-3.74	47.10	54.00	-6.90
2377.560	Peak	65.84	-3.74	62.10	74.00	-11.90
2390.000	Average	52.02	-3.80	48.21	54.00	-5.79
2390.000	Peak	62.77	-3.80	58.97	74.00	-15.03

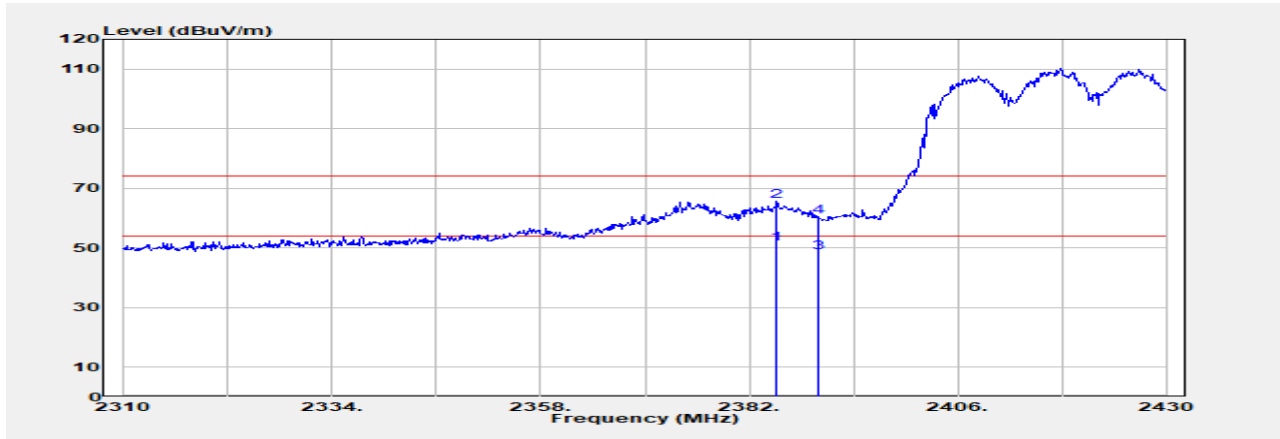
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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



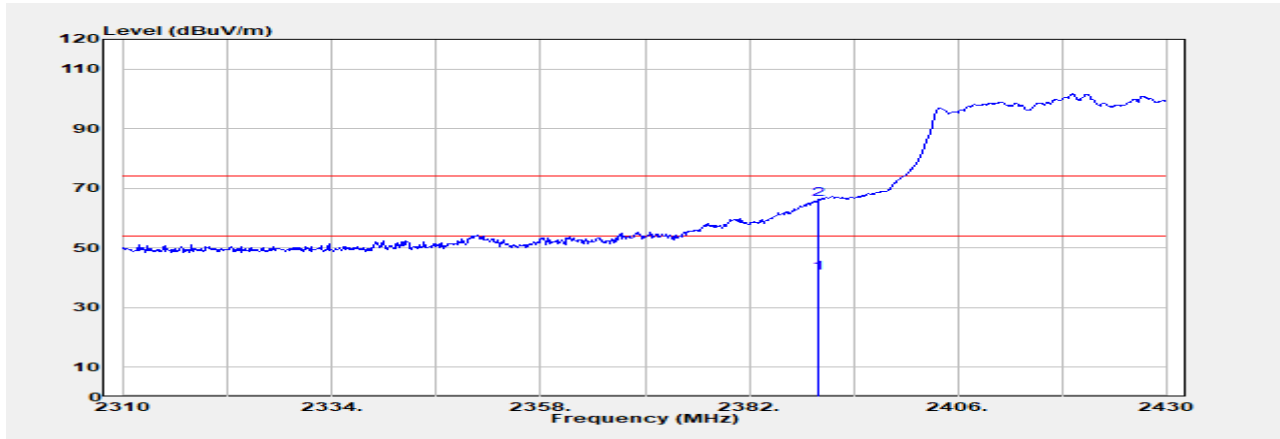
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2385.120	Average	55.00	-3.78	51.22	54.00	-2.78
2385.120	Peak	69.60	-3.78	65.82	74.00	-8.18
2390.000	Average	52.29	-3.80	48.49	54.00	-5.51
2390.000	Peak	64.40	-3.80	60.60	74.00	-13.40

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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW RU 484/65
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2390.000	Average	45.37	-3.80	41.57	54.00	-12.43
2390.000	Peak	69.98	-3.80	66.18	74.00	-7.82

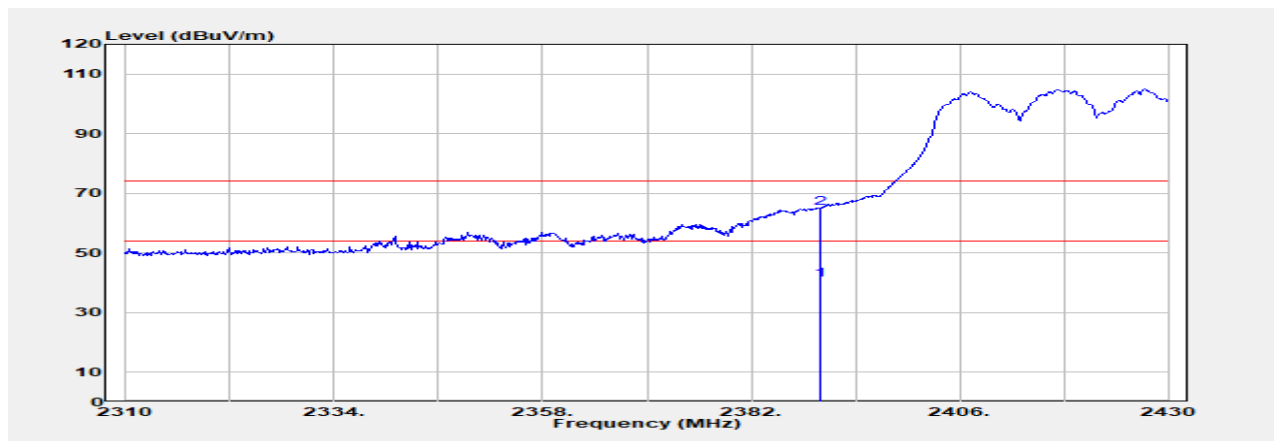
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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW RU 484/65
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.000	Average	44.86	-3.80	41.06	54.00	-12.94
2390.000	Peak	68.91	-3.80	65.11	74.00	-8.89

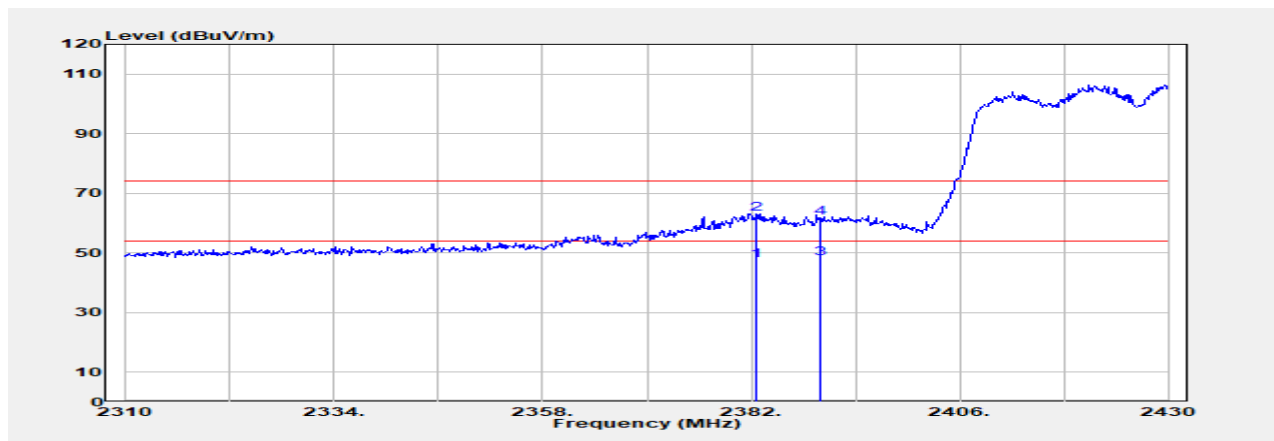
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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2427 MHz
 Test Mode :BE CH 4 RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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
2382.600	Average	51.38	-3.77	47.61	54.00	-6.39
2382.600	Peak	66.88	-3.77	63.11	74.00	-10.89
2390.000	Average	51.83	-3.80	48.03	54.00	-5.97
2390.000	Peak	65.60	-3.80	61.80	74.00	-12.20

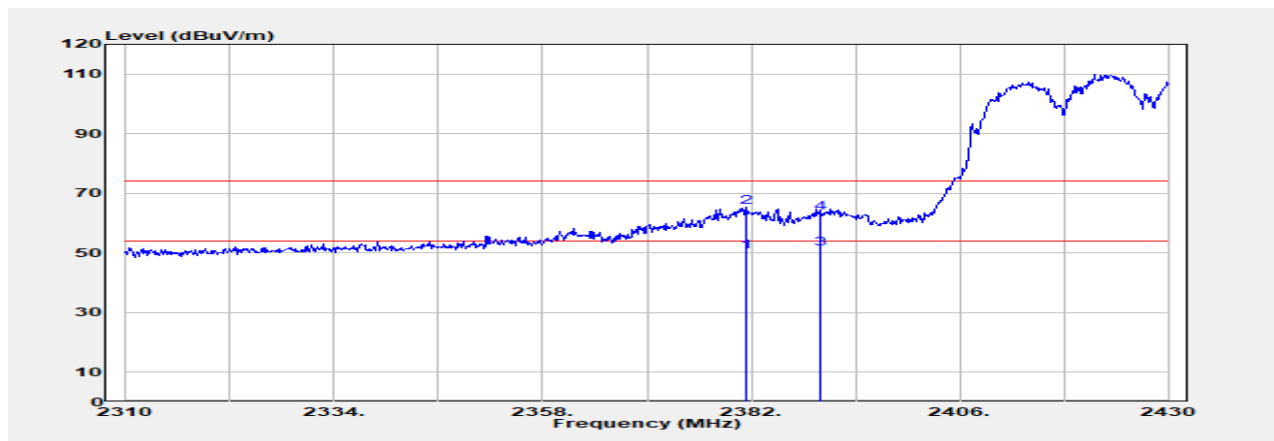
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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2427 MHz
 Test Mode :BE CH 4 RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2381.520	Average	54.31	-3.77	50.54	54.00	-3.46
2381.520	Peak	69.01	-3.77	65.24	74.00	-8.76
2390.000	Average	55.20	-3.80	51.40	54.00	-2.60
2390.000	Peak	67.05	-3.80	63.25	74.00	-10.75

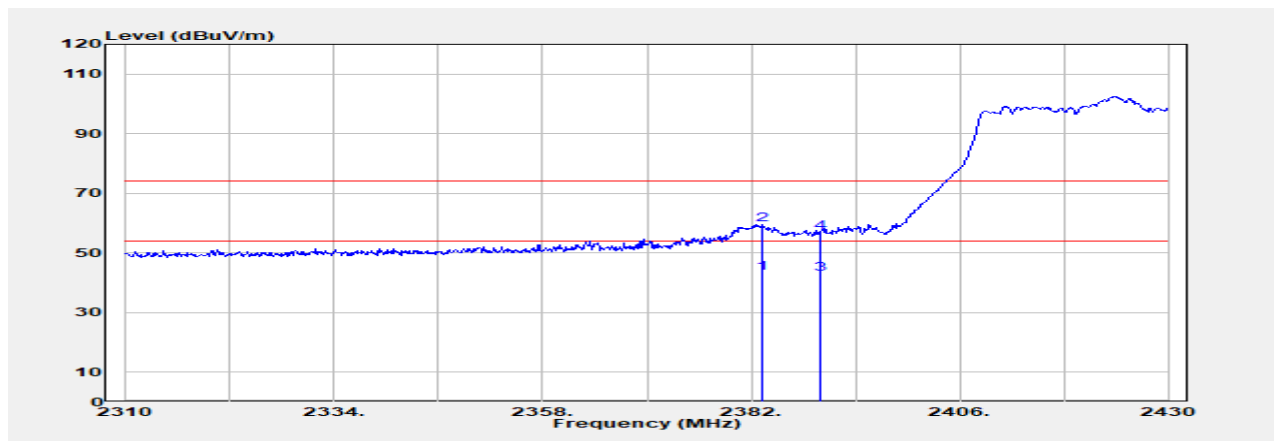
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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2427 MHz
 Test Mode :BE CH 4 RU 484/65
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2383.200	Average	47.10	-3.77	43.32	54.00	-10.68
2383.200	Peak	63.17	-3.77	59.40	74.00	-14.60
2390.000	Average	46.58	-3.80	42.78	54.00	-11.22
2390.000	Peak	60.69	-3.80	56.89	74.00	-17.11

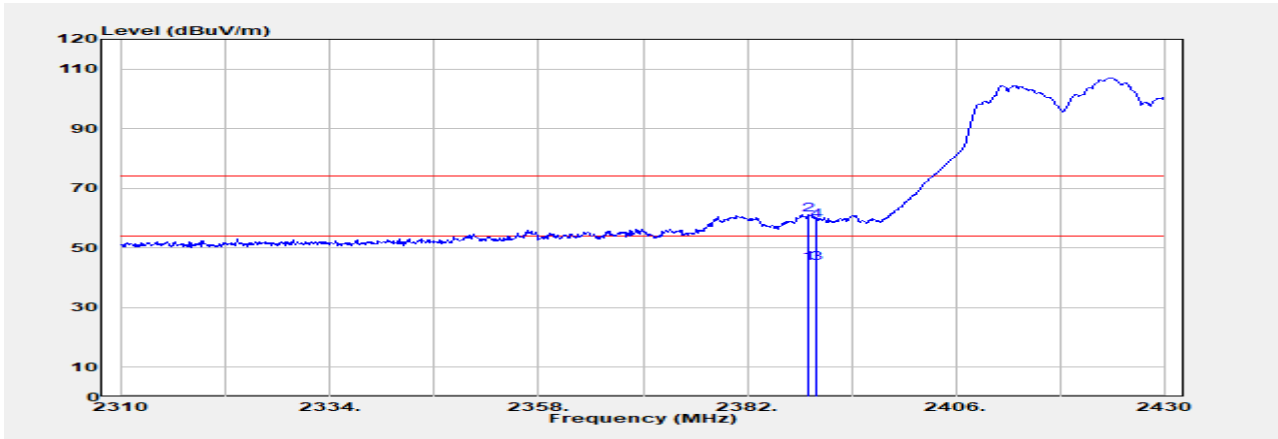
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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2427 MHz
 Test Mode :BE CH 4 RU 484/65
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



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
2388.960	Average	48.59	-3.80	44.79	54.00	-9.21
2388.960	Peak	65.09	-3.80	61.30	74.00	-12.70
2390.000	Average	48.81	-3.80	45.01	54.00	-8.99
2390.000	Peak	63.00	-3.80	59.20	74.00	-14.80

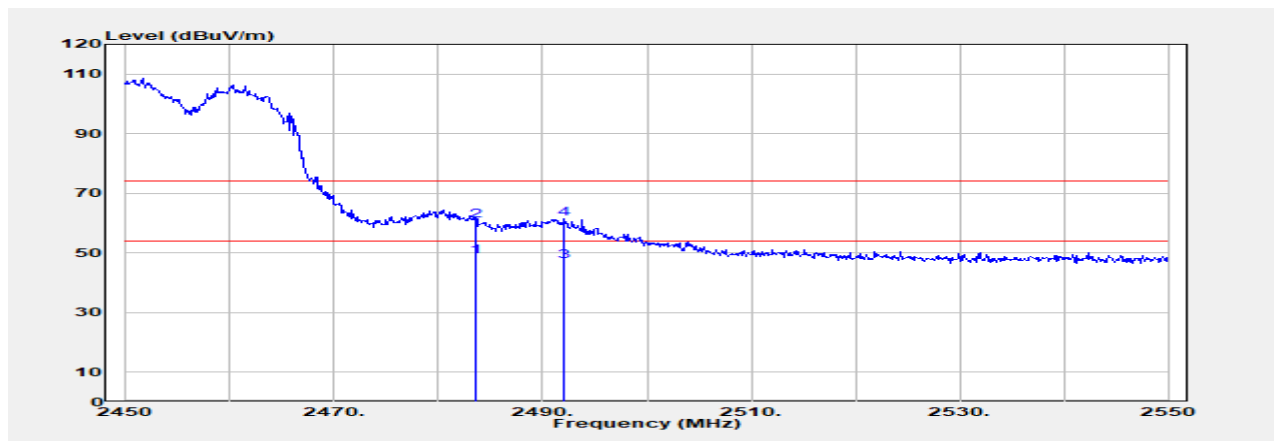
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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2447 MHz
 Test Mode :BE CH 8 RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.500	Average	52.67	-3.92	48.75	54.00	-5.25
2483.500	Peak	64.76	-3.92	60.84	74.00	-13.16
2492.100	Average	51.06	-3.87	47.18	54.00	-6.82
2492.100	Peak	65.37	-3.87	61.49	74.00	-12.51

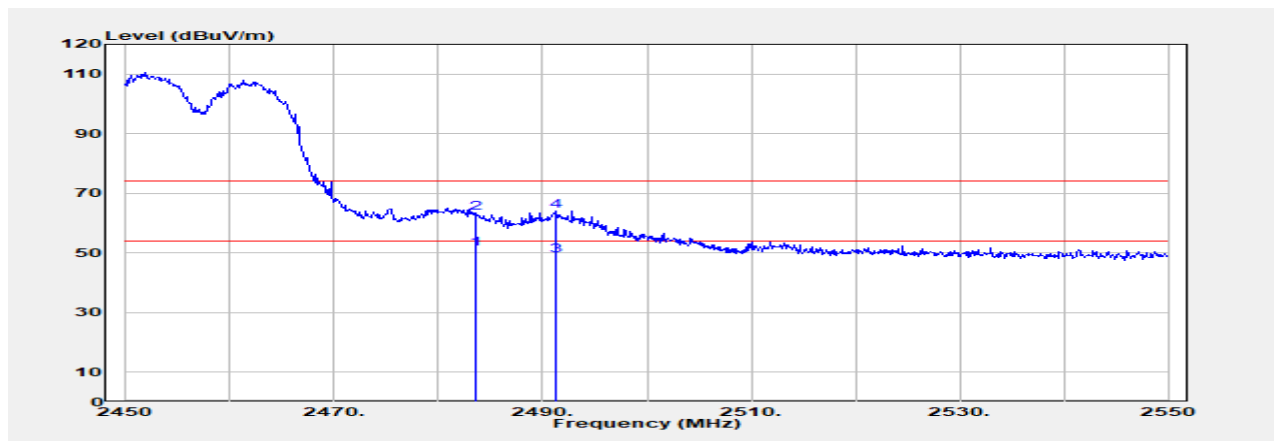
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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2447 MHz
 Test Mode :BE CH 8 RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



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	55.44	-3.92	51.52	54.00	-2.48
2483.500	Peak	67.45	-3.92	63.53	74.00	-10.47
2491.200	Average	53.03	-3.88	49.16	54.00	-4.84
2491.200	Peak	68.06	-3.88	64.18	74.00	-9.82

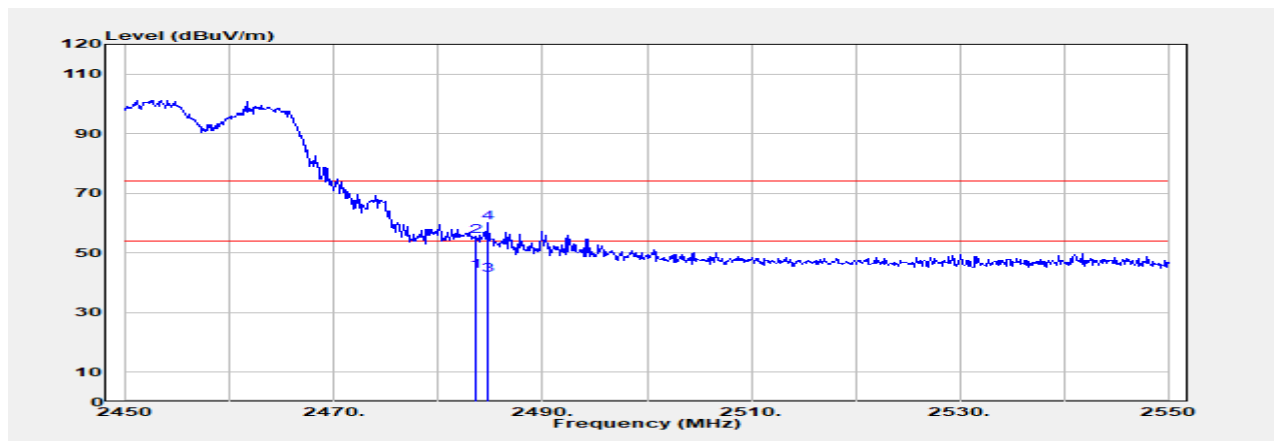
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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2447 MHz
 Test Mode :BE CH 8 RU 484/65
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.500	Average	47.71	-3.92	43.79	54.00	-10.21
2483.500	Peak	59.61	-3.92	55.69	74.00	-18.31
2484.700	Average	46.49	-3.91	42.58	54.00	-11.42
2484.700	Peak	64.21	-3.91	60.30	74.00	-13.70

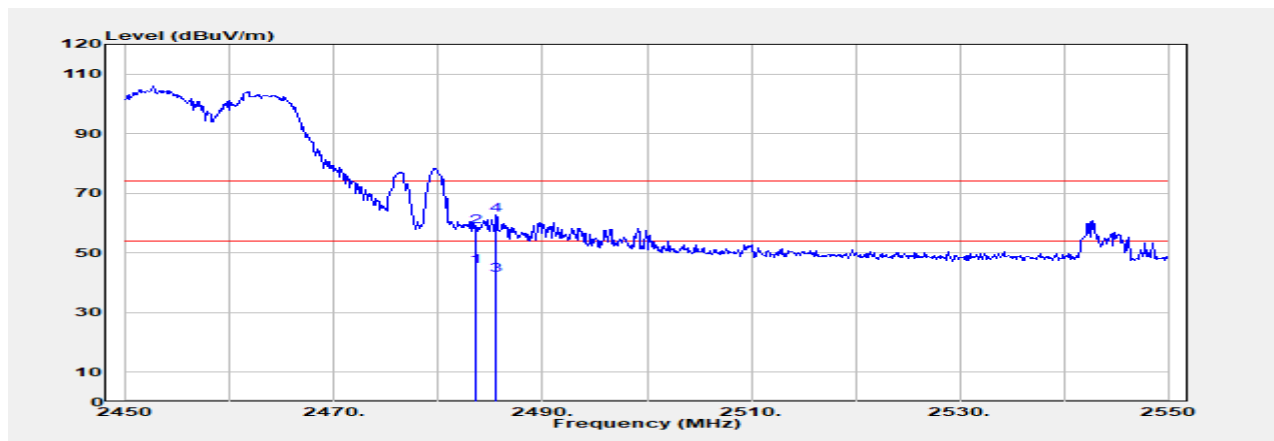
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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2447 MHz
 Test Mode :BE CH 8 RU 484/65
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	49.37	-3.92	45.45	54.00	-8.55
2483.500	Peak	62.71	-3.92	58.79	74.00	-15.21
2485.500	Average	46.52	-3.91	42.61	54.00	-11.39
2485.500	Peak	66.52	-3.91	62.61	74.00	-11.39

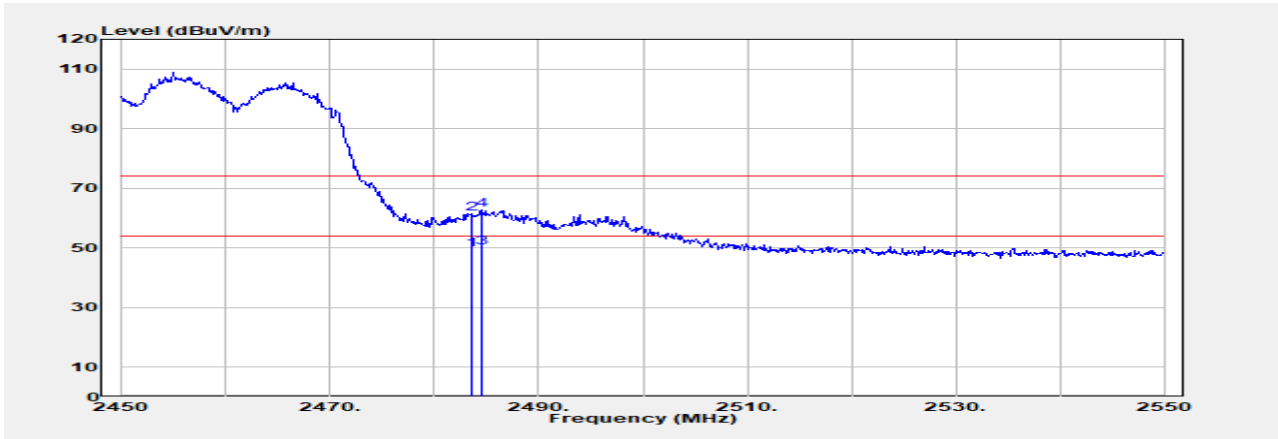
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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2452 MHz
 Test Mode :BE CH HIGH RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Vertical
 Engineer :Quentin



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	53.49	-3.92	49.57	54.00	-4.43
2483.500	Peak	65.46	-3.92	61.54	74.00	-12.46
2484.600	Average	53.88	-3.91	49.96	54.00	-4.04
2484.600	Peak	66.81	-3.91	62.90	74.00	-11.10

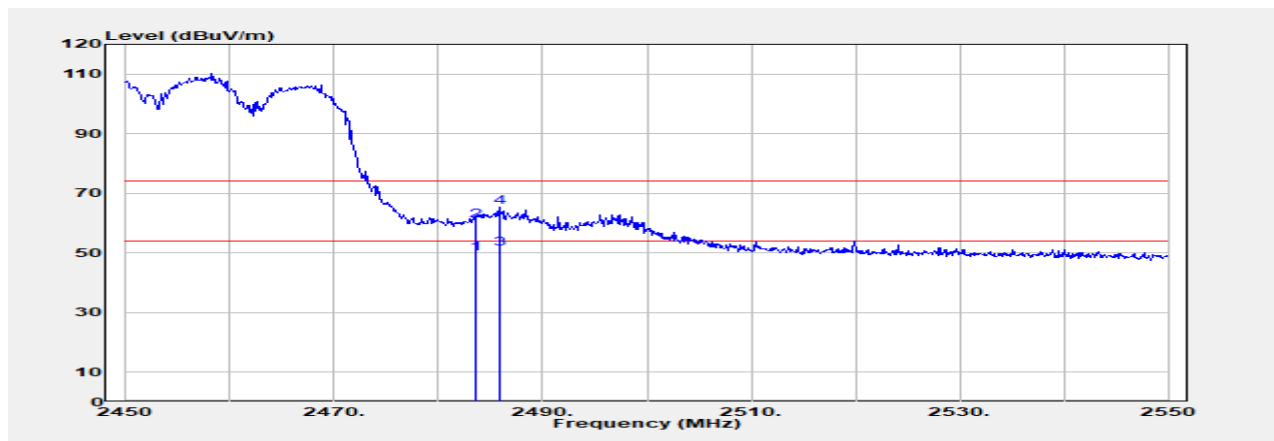
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Report Number :E2/2022/30009
 Operation Mode :802.11ax40
 Test Frequency :2452 MHz
 Test Mode :BE CH HIGH RU FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-22
 Temp./Humi. :21.3/70
 Antenna Pol. :Horizontal
 Engineer :Quentin



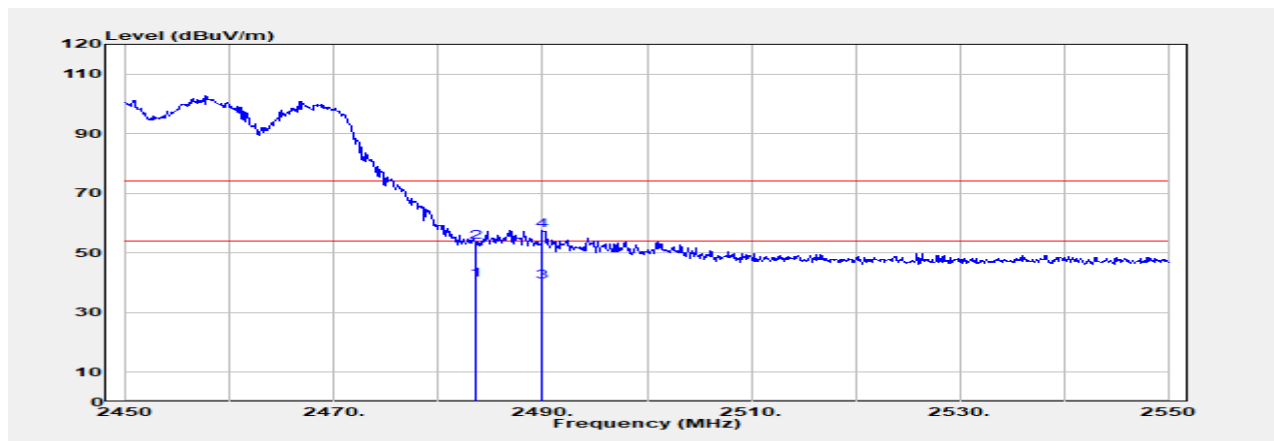
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	53.81	-3.92	49.89	54.00	-4.11
2483.500	Peak	64.82	-3.92	60.90	74.00	-13.10
2485.800	Average	55.28	-3.91	51.37	54.00	-2.63
2485.800	Peak	69.24	-3.91	65.33	74.00	-8.67

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Report Number	:E2/2022/30009	Test Site	:SAC G
Operation Mode	:802.11ax40	Test Date	:2022-03-22
Test Frequency	:2452 MHz	Temp./Humi.	:21.3/70
Test Mode	:BE CH HIGH RU 484/65	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Quentin



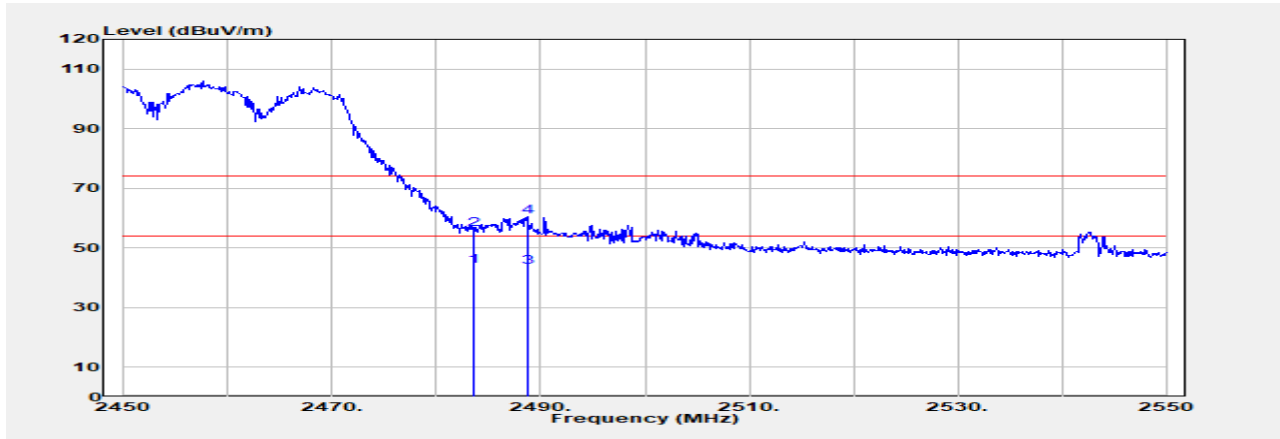
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.500	Average	44.98	-3.92	41.06	54.00	-12.94
2483.500	Peak	57.47	-3.92	53.55	74.00	-20.45
2490.000	Average	44.33	-3.88	40.45	54.00	-13.55
2490.000	Peak	61.44	-3.88	57.56	74.00	-16.44

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Report Number	:E2/2022/30009	Test Site	:SAC G
Operation Mode	:802.11ax40	Test Date	:2022-03-22
Test Frequency	:2452 MHz	Temp./Humi.	:21.3/70
Test Mode	:BE CH HIGH RU 484/65	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.500	Average	47.94	-3.92	44.02	54.00	-9.98
2483.500	Peak	60.33	-3.92	56.41	74.00	-17.59
2488.700	Average	47.42	-3.89	43.54	54.00	-10.46
2488.700	Peak	64.46	-3.89	60.57	74.00	-13.43

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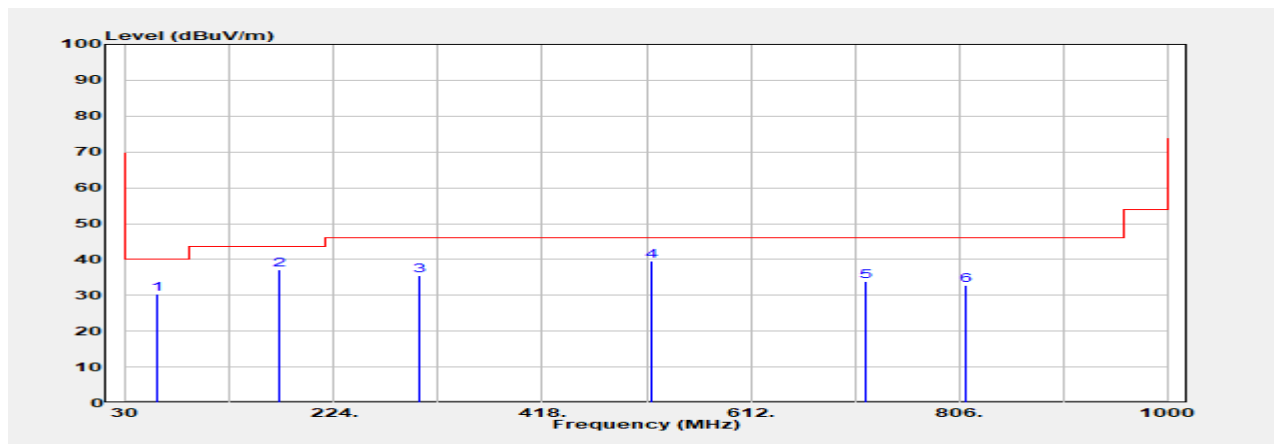
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7.7.2 Spurious Emission:

Report Number :E2/2022/30009
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-23
 Temp./Humi. :20.5/70
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
59.100	Peak	43.93	-13.61	30.32	40.00	-9.68
173.560	Peak	50.82	-13.77	37.05	43.50	-6.45
303.540	Peak	47.79	-12.36	35.43	46.00	-10.57
519.850	Peak	47.17	-7.56	39.61	46.00	-6.39
719.670	Peak	36.62	-2.80	33.82	46.00	-12.18
811.820	Peak	34.86	-2.10	32.76	46.00	-13.24

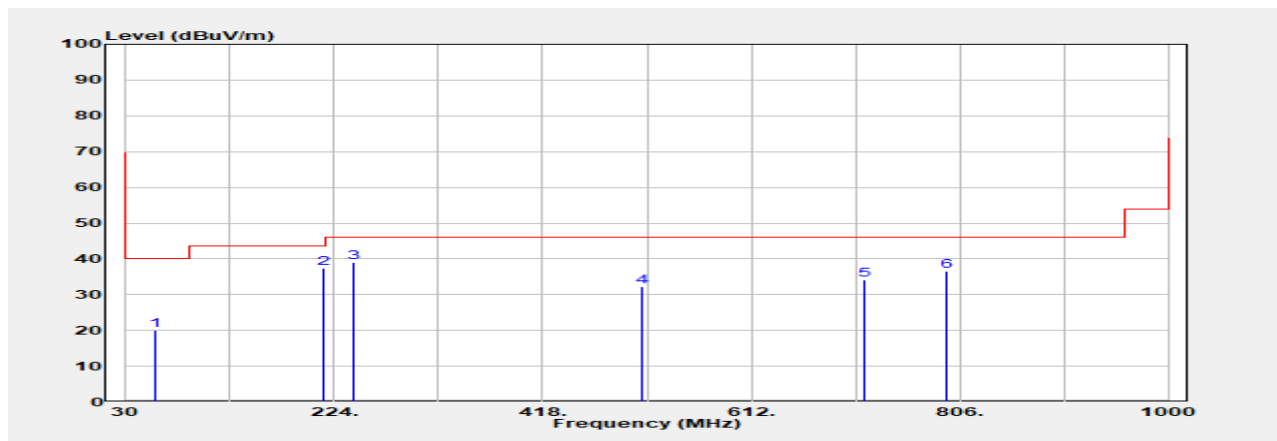
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Report Number :E2/2022/30009
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-23
 Temp./Humi. :20.5/70
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
58.130	Peak	33.39	-13.44	19.95	40.00	-20.05
214.300	Peak	53.69	-16.35	37.34	43.50	-6.16
242.430	Peak	53.59	-14.53	39.06	46.00	-6.94
511.120	Peak	40.02	-7.65	32.37	46.00	-13.63
716.760	Peak	37.01	-2.99	34.02	46.00	-11.98
794.360	Peak	39.06	-2.40	36.66	46.00	-9.34

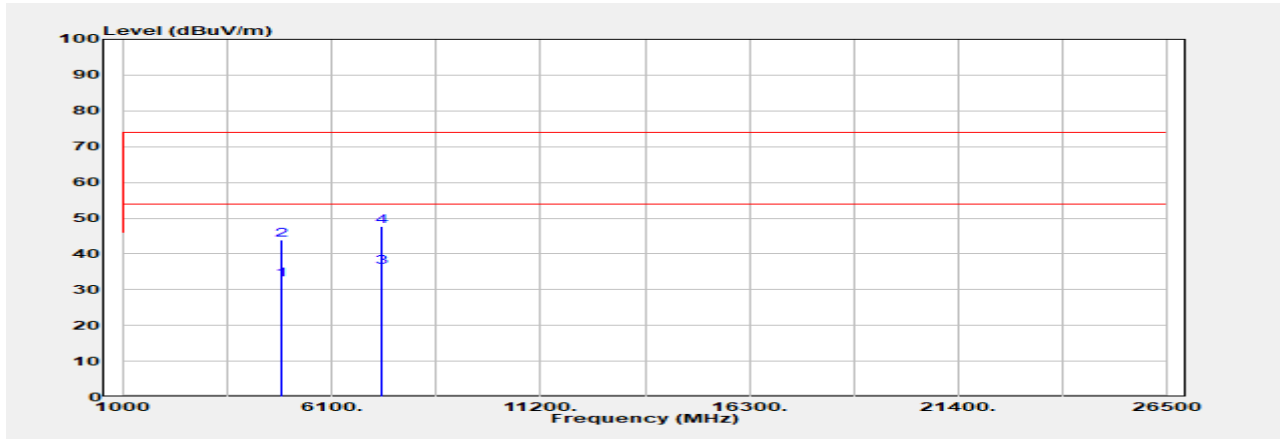
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report Number :E2/2022/30009
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-23
 Temp./Humi. :20.5/70
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



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
4874.000	Average	29.50	3.23	32.73	54.00	-21.27
4874.000	Peak	40.56	3.23	43.79	74.00	-30.21
7311.000	Average	28.76	7.68	36.44	54.00	-17.56
7311.000	Peak	39.90	7.68	47.57	74.00	-26.43

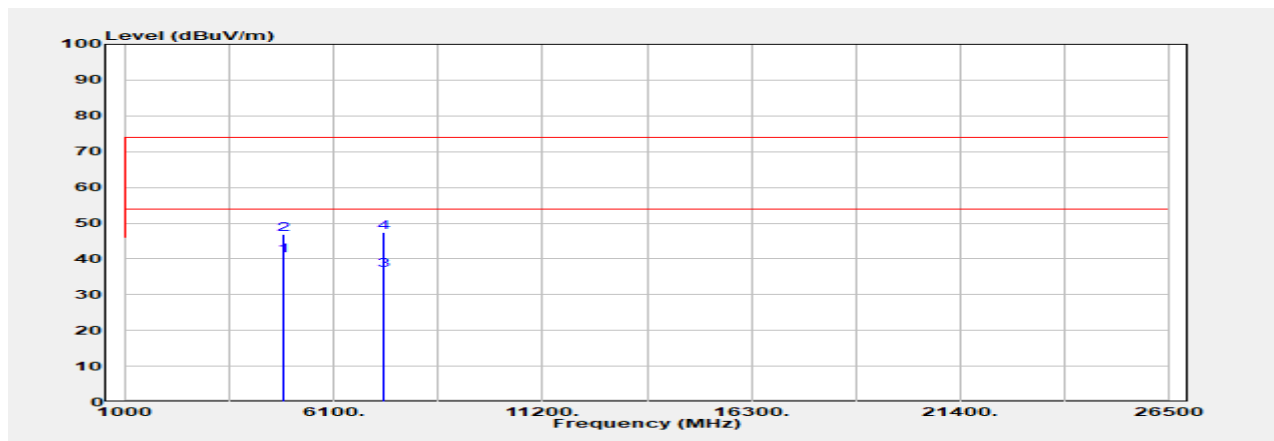
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Report Number :E2/2022/30009
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-23
 Temp./Humi. :20.5/70
 Antenna Pol. :Horizontal
 Engineer :Quentin Liu



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
4874.000	Average	37.60	3.23	40.83	54.00	-13.17
4874.000	Peak	43.70	3.23	46.93	74.00	-27.07
7311.000	Average	29.18	7.68	36.86	54.00	-17.14
7311.000	Peak	39.67	7.68	47.35	74.00	-26.65

~ End of Report ~

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