

ELECTROMAGNETIC EMISSIONS CLASS II PERMISSIVE CHANGE REPORT



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FCC Manufacturer: Compal Electronics, Inc.
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Taiwan

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

Brand Name: acer

Model No.: QCNFA765

Report Number: E2/2022/30010

FCC ID HLZQCNFA765

Issue Date: Apr. 15, 2022

Date of Test: Mar. 08, 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 §15.407.

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
E2/2022/30010	00	Original.	Apr. 15, 2022	Yi-Shan Tsai	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	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 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac only
	1024QAM for OFDMA in 802.11ax only
Transition Rate:	802.11 a: 6.5 - 54 Mbps
	802.11 n_20MHz: 6.5 - 144.4 Mbps
	802.11 n_40MHz: 13.5 - 300 Mbps
	802.11 ac_20MHz: 6.5 - 173.4 Mbps
	802.11 ac_40MHz: 13.5 - 400 Mbps
	802.11 ac_80MHz: 29.3 - 866.6 Mbps
	802.11 ac_160MHz: 58.5 - 1733.4 Mbps
	802.11 ax_20MHz: 8.6 - 286.8 Mbps
	802.11 ax_40MHz: 17.2 - 573.6 Mbps
	802.11 ax_80MHz: 36 - 1201 Mbps
802.11 ax_160MHz: 68 - 2402 Mbps	

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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)	5150~5250	2.92	6.02
				5250~5350	2.50	5.38
				5470~5725	3.39	6.19
				5725~5850	3.39	6.17
		Aux	81EABS15.G08 (DC33002NJ10)	5150~5250	3.09	6.02
				5250~5350	2.23	5.38
				5470~5725	2.97	6.19
				5725~5850	2.92	6.17

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 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/ n_HT/ ac_VHT/ ax_HE 20M	5180~5240	4	21.81 dBm	OFDM
	5260~5320	4	21.81 dBm	OFDM
	5500~5720	12	21.71 dBm	OFDM
	5745-5825	5	21.76 dBm	OFDM
n_HT ac_VHT/ ax_HE 40M	5190~5230	2	18.21 dBm	OFDMA
	5270~5310	2	18.34 dBm	OFDMA
	5510~5710	6	18.31 dBm	OFDMA
	5755-5795	2	18.26 dBm	OFDMA
ac_VHT/ ax_HE 80M	5210	1	14.21 dBm	OFDM
	5290	1	14.56 dBm	OFDMA
	5530~5690	3	17.67 dBm	OFDMA
	5775	1	17.71 dBm	OFDMA
ac_VHT/ ax_HE 160M	5250	1	12.07 dBm	OFDMA
	5570	1	15.57 dBm	OFDMA

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407
 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
 FCC KDB 662911 D01 Multiple Transmitter Output v02r01
 ANSI C63.10:2013

1.6 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		
	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.

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 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 RESULT

FCC Rules	Description Of Test	Result
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

Operated band in 5150 MHz ~5250 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

Operated band in 5250 MHz ~5350 MHz:

20 M		40 M		80 M		160 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290	50	5250
56	5280	62	5310				
60	5300						
64	5320						

Operated band in 5470 MHz ~5725 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

Operated band in 5725 MHz ~5850 MHz:

160 M		20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
114	5570	149	5745	151	5755	155	5775
		153	5765	159	5795		
		157	5785				
		161	5805				
		165	5825				

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<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 type="checkbox"/> SISO	<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 type="checkbox"/> SISO	<input checked="" type="checkbox"/> MIMO

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4. Observations have been done for 802.11ax available RU configurations below and found that the lowest, highest and Full RU results higher emissions. Only one RU can be enabled at any given time.

802.11ax	20MHz				802.11ax	40MHz			
RU type	26-tone RU		52-tone RU		RU type	26-tone RU		52-tone RU	
RU index and subcarrier range	RU0	[-121: -96]	RU37	[-121: -70]	RU index and subcarrier range	RU0	[-243: -218]	RU37	[-243: -192]
	RU1	[-95: -70]	RU38	[-68: -17]		RU1	[-217: -192]	RU38	[-189: -138]
	RU2	[-68: -43]	RU39	[17: 68]		RU2	[-189: -164]	RU39	[-109: -58]
	RU3	[-42: -17]	RU40	[70: 121]		RU3	[-163: -138]	RU40	[-55: -4]
	RU4	[-16: -4, 4: 16]	RU41	N/A		RU4	[-136: -111]	RU41	[4: 55]
	RU5	[17: 42]	RU42	N/A		RU5	[-109: -84]	RU42	[58: 109]
	RU6	[43: 68]	RU43	N/A		RU6	[-83: -58]	RU43	[138: 189]
	RU7	[70: 95]	RU44	N/A		RU7	[-55: -30]	RU44	[192: 243]
	RU8	[96: 121]	RU45	N/A		RU8	[-29: -4]	RU45	N/A
	RU9	N/A	RU46	N/A		RU9	[4: 29]	RU46	N/A
	RU10	N/A	RU47	N/A		RU10	[30: 55]	RU47	N/A
	RU11	N/A	RU48	N/A		RU11	[58: 83]	RU48	N/A
	RU12	N/A	RU49	N/A		RU12	[84: 109]	RU49	N/A
	RU13	N/A	RU50	N/A		RU13	[111: 136]	RU50	N/A
	RU14	N/A	RU51	N/A		RU14	[138: 163]	RU51	N/A
	RU15	N/A	RU52	N/A		RU15	[164: 189]	RU52	N/A
	RU16	N/A				RU16	[192: 217]		
	RU17	N/A	106-tone RU			RU17	[218: 243]	106-tone RU	
	RU18	N/A	RU53	[-122: -17]		RU18	N/A	RU53	[-243: -138]
	RU19	N/A	RU54	[17: 122]		RU19	N/A	RU54	[-109: -4]
	RU20	N/A	RU55	N/A		RU20	N/A	RU55	[4: 109]
	RU21	N/A	RU56	N/A		RU21	N/A	RU56	[138: 243]
	RU22	N/A	RU57	N/A		RU22	N/A	RU57	N/A
	RU23	N/A	RU58	N/A		RU23	N/A	RU58	N/A
	RU24	N/A	RU59	N/A		RU24	N/A	RU59	N/A
	RU25	N/A	RU60	N/A		RU25	N/A	RU60	N/A
	RU26	N/A				RU26	N/A		
	RU27	N/A	242-tone RU			RU27	N/A	242-tone RU	
	RU28	N/A	RU61	[-122: -2, 2: 122]		RU28	N/A	RU61	[-244: -3]
	RU29	N/A	RU62	N/A		RU29	N/A	RU62	[3: 244]
	RU30	N/A	RU63	N/A		RU30	N/A	RU63	N/A
	RU31	N/A	RU64	N/A		RU31	N/A	RU64	N/A
	RU32	N/A				RU32	N/A		
	RU33	N/A				RU33	N/A	484-tone RU	
	RU34	N/A				RU34	N/A	RU65	[-244: -3, 3: 244]
	RU35	N/A				RU35	N/A	RU66	N/A
RU36	N/A			RU36	N/A				

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802.11ax	80MHz			
RU type	26-tone RU		52-tone RU	
RU index and subcarrier range	RU0	[-499: -474]	RU37	[-499: -448]
	RU1	[-473: -448]	RU38	[-445: -394]
	RU2	[-445: -420]	RU39	[-365: -314]
	RU3	[-419: -394]	RU40	[-311: -260]
	RU4	[-392: -367]	RU41	[-257: -206]
	RU5	[-365: -340]	RU42	[-203: -152]
	RU6	[-339: -314]	RU43	[-123: -72]
	RU7	[-311: -286]	RU44	[-69: -18]
	RU8	[-285: -260]	RU45	[18: 69]
	RU9	[-257: -232]	RU46	[72: 123]
	RU10	[-231: -206]	RU47	[152: 203]
	RU11	[-203: -178]	RU48	[206: 257]
	RU12	[-177: -152]	RU49	[260: 311]
	RU13	[-150: -125]	RU50	[314: 365]
	RU14	[-123: -98]	RU51	[394: 445]
	RU15	[-97: -72]	RU52	[448: 499]
	RU16	[-69: -44]	106-tone RU	
	RU17	[-43: -18]	RU53	[-499: -394]
	RU18	[-16: -4, 4: 16]	RU54	[-365: -260]
	RU19	[18: 43]	RU55	[-257: -152]
	RU20	[44: 69]	RU56	[-123: -18]
	RU21	[72: 97]	RU57	[18: 123]
	RU22	[98: 123]	RU58	[152: 257]
	RU23	[125: 150]	RU59	[260: 365]
	RU24	[152: 177]	RU60	[394: 499]
	RU25	[178: 203]	242-tone RU	
	RU26	[206: 231]	RU61	[-500: -259]
	RU27	[232: 257]	RU62	[-258: -17]
	RU28	[260: 285]	RU63	[17: 258]
	RU29	[286: 311]	RU64	[259: 500]
	RU30	[314: 339]	484-tone RU	
	RU31	[340: 365]	RU65	[-500: -17]
	RU32	[367: 392]	RU66	[17: 500]
	RU33	[394: 419]	996-tone RU	
	RU34	[420: 445]	RU67	[-500: -3, 3: 500]
	RU35	[448: 473]		
RU36	[474: 499]			

5. 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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RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
802.11a	5180~5240	36 to 48	44	OFDM	6	2TX	
	5260~5320	52 to 64	60				
	5500~5720	100 to 144	116				
	5745~5825	149 to 165	157				
RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
802.11a	5180~5240	36 to 48	36,44	OFDM	6	2TX	
	5260~5320	52 to 64	60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
802.11ac VHT20	5180~5240	36 to 48	36	OFDM	MCS8	MIMO	
	5260~5320	52 to 64	64				
	5500~5700	100 to 140	100,140,144				
	5745~5825	149 to 165	149,165				
802.11ac VHT40	5190~5230	38 to 46	38	OFDM	MCS8	MIMO	
	5270~5310	54 to 62	62				
	5510~5670	102 to 134	102,134				
	5755~5795	151 to 159	151,159				
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO	
	5290	58	58				
	5530~5610	106 to 138	106,122,138				
	5775	155	155				
802.11ac_VHT160	5250	50	50	OFDM	MCS0	MIMO	
	5570	114	114				
RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATIO	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	36	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54 242/61	MCS0	MIMO
	5260~5320	52 to 64	64				
	5500~5720	100 to 144	100,140,144				
	5745~5825	149 to 165	149,165				
802.11ax_HE40	5190~5230	38 to 46	38	OFDMA	FULL RU 26/9,26/27 52/41,52/48 106/55,106/58 242/61,242/63 484/65	MCS0	MIMO
	5270~5310	54 to 62	62				
	5510~5670	102 to 142	102,134				
	5755~5795	151 to 159	151,159				
802.11ax_HE80	5210	42	42	OFDMA	FULL RU 996/67	MCS0	MIMO
	5290	58	58				
	5530~5610	106 to 138	106,122,138				
	5775	155	155				
802.11ax_HE160	5290	58	50	OFDMA	FULL RU 1992/68	MCS0	MIMO
	5530~5610	106 to 138	114				

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CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180-5240	36 to 48	36,44,48	OFDM	6	2TX
	5260-5320	52 to 64	52,60,64			
	5500-5720	100 to 144	100,116,140,144			
	5745-5825	149 to 165	149,157,165			
802.11ac VHT20	5180-5240	36 to 48	36,44,48	OFDM	MCS8	MIMO
	5260-5320	52 to 64	52,60,64			
	5500-5700	100 to 140	100,116,140			
	5745-5825	149 to 165	149,157,165			
802.11ac VHT40	5190-5230	38 to 46	38,46	OFDM	MCS8	MIMO
	5270-5310	54 to 62	54,62			
	5510-5670	102 to 134	102,110,134			
	5755-5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530-5610	106 to 138	106,122,138			
	5775	155	155			
802.11ac_VHT160	5250	50	50	OFDM	MCS0	MIMO
	5570	114	114			

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATIO	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180-5240	36 to 48	36,44,48	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54 242/61	MCS0	MIMO
	5260-5320	52 to 64	52,60,64				
	5500-5720	100 to 144	100,116,140,144				
	5745-5825	149 to 165	149,157,165				
802.11ax_HE40	5190-5230	38 to 46	38,46	OFDMA	FULL RU 26/9,26/27 52/41,52/48 106/55,106/58 242/61,242/63 484/65	MCS0	MIMO
	5270-5310	54 to 62	54,62				
	5510-5670	102 to 142	102,110,134,142				
	5755-5795	151 to 159	151,159				
802.11ax_HE80	5210	42	42	OFDMA	FULL RU 996/67	MCS0	MIMO
	5290	58	58				
	5530-5610	106 to 138	106,122,138				
	5775	155	155				
802.11ax_HE160	5290	58	58	OFDMA	FULL RU 1992/68	MCS0	MIMO
	5530-5610	106 to 138	106,122,138				

Note:

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

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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
	+/-	4.45 dB	1GHz - 18GHz
	+/-	4.24 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.57 dB	9kHz~30MHz
	+/-	4.37 dB	30MHz - 1000MHz
	+/-	4.45 dB	1GHz - 18GHz
	+/-	4.24 dB	18GHz - 40GHz

Note:

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

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6 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

6.1.1 Output Power

Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required

1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.

2. For the 10 log B, B is the 26 dB emission bandwidth.

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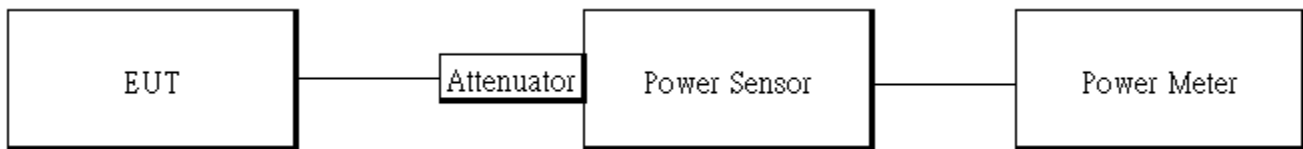
6.2 Measurement Equipment Used:

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



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6.4 Measurement Procedure

6.4.1 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. 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.

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

$g_{j,k}$ = / 20 10Gk 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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6.5 Output Power Measurement Result

6.5.1 FCC Output power

802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	6	14.5	14.72	14.31	18.79	75.683	23.96	PASS
40	5200	6	18	17.71	17.35	21.81	151.705	23.96	PASS
48	5240	6	15.5	15.89	15.77	20.10	102.329	23.96	PASS
52	5260	6	18	17.73	17.34	21.81	151.705	23.98	PASS
60	5300	6	18	17.68	17.3	21.77	150.314	23.98	PASS
64	5320	6	15	15.05	14.67	19.14	82.035	23.98	PASS
100	5500	6	14	13.95	13.62	18.06	63.973	23.79	PASS
116	5580	6	18	17.62	17.25	21.71	148.252	23.79	PASS
140	5700	6	13.5	13.64	13.31	17.75	59.566	23.79	PASS
144	5720(U-NII 2C)	6	18.5	15.79	15.46	19.90	97.684	23.79	PASS
144	5720 (U-NII 3)	6	18.5	12.78	12.45	16.89	48.818	29.83	PASS
149	5745	6	18.5	17.56	17.29	21.70	147.911	29.83	PASS
157	5785	6	18.5	17.63	17.33	21.76	149.968	29.83	PASS
165	5825	6	18.5	17.53	17.29	21.68	147.231	29.83	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	14.5	14.63	14.32	18.62	72.778	23.96	PASS
40	5200	MCS0	14.5	14.75	14.49	18.77	75.336	23.96	PASS
48	5240	MCS0	14.5	14.62	14.38	18.65	73.282	23.96	PASS
52	5260	MCS0	14.5	14.77	14.52	18.79	75.683	23.98	PASS
60	5300	MCS0	14.5	14.64	14.42	18.68	73.790	23.98	PASS
64	5320	MCS0	14.5	14.7	14.41	18.70	74.131	23.98	PASS
100	5500	MCS0	14	13.66	13.52	17.74	59.429	23.79	PASS
116	5580	MCS0	14.5	14.65	14.35	18.65	73.282	23.79	PASS
140	5700	MCS0	13.5	13.65	13.33	17.64	58.076	23.79	PASS
144	5720(U-NII 2C)	MCS0	15	13.37	13.20	17.42	55.259	23.79	PASS
144	5720 (U-NII 3)	MCS0	15	8.95	8.32	12.79	19.004	29.83	PASS
149	5745	MCS0	15	14.68	14.37	18.67	73.621	29.83	PASS
157	5785	MCS0	15	14.68	14.4	18.69	73.961	29.83	PASS
165	5825	MCS0	15	14.62	14.36	18.64	73.114	29.83	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	12.5	12.82	12.46	16.24	42.073	23.96	PASS
46	5230	MCS0	14	14.56	14.27	18.01	63.241	23.96	PASS
54	5270	MCS0	14	14.85	14.51	18.28	67.298	23.98	PASS
62	5310	MCS0	14	14.42	14.18	17.90	61.660	23.98	PASS
102	5510	MCS0	13	12.94	12.79	16.46	44.259	23.79	PASS
110	5550	MCS0	14	14.65	14.33	18.09	64.417	23.79	PASS
134	5670	MCS0	14	14.7	14.42	18.16	65.464	23.79	PASS
142	5710(U-NII 2C)	MCS0	14	13.78	13.52	17.25	53.127	23.79	PASS
142	5710 (U-NII 3)	MCS0	14	7.76	7.50	11.23	13.282	29.83	PASS
151	5755	MCS0	15	14.72	14.44	18.18	65.766	29.83	PASS
159	5795	MCS0	15	14.68	14.35	18.11	64.714	29.83	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
42	5210	MCS0	10	10.81	10.62	14.21	26.363	23.96	PASS
58	5290	MCS0	10.5	11.12	10.77	14.44	27.797	23.98	PASS
106	5530	MCS0	13	12.15	11.86	15.50	35.481	23.79	PASS
122	5610	MCS0	15	14.15	13.93	17.53	56.624	23.79	PASS
138	5690(U-NII 2C)	MCS0	15	13.75	13.50	17.12	51.489	23.79	PASS
138	5690 (U-NII 3)	MCS0	15	4.70	5.37	8.53	7.136	29.83	PASS
155	5775	MCS0	15	14.28	14.14	17.70	58.884	29.83	PASS

802.11ac_VHT160_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
50	5250	MCS0	9.5	7.23	6.97	10.46	11.117	23.98	PASS
114	5570	MCS0	11	10.48	10.21	13.70	23.442	23.79	PASS

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802.11ax_HE20_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
36	5180	MCS0	full	14	14.92	14.71	18.72	74.473	23.96	PASS
		MCS0	26/0	11.5	11.71	11.38	15.45	35.075	23.96	PASS
		MCS0	52/37	12.5	12.53	12.29	16.31	42.756	23.96	PASS
		MCS0	106/53	12	12.07	11.84	15.86	38.548	23.96	PASS
		MCS0	242/61	10.5	10.41	10.19	14.20	26.303	23.96	PASS
40	5200	MCS0	full	14	15.12	14.84	18.88	77.268	23.96	PASS
		MCS0	26/0	11	11.65	11.34	15.40	34.674	23.96	PASS
		MCS0	52/37	13	13.66	13.27	17.37	54.576	23.96	PASS
		MCS0	106/53	13	13.71	13.32	17.42	55.208	23.96	PASS
		MCS0	242/61	13	13.61	13.23	17.33	54.075	23.96	PASS
48	5240	MCS0	full	14	15.06	14.73	18.80	75.858	23.96	PASS
		MCS0	26/8	11	11.41	11.16	15.19	33.037	23.96	PASS
		MCS0	52/40	13	13.54	13.22	17.28	53.456	23.96	PASS
		MCS0	106/54	13	13.5	13.32	17.31	53.827	23.96	PASS
		MCS0	242/61	13	13.33	13.18	17.16	52.000	23.96	PASS
52	5260	MCS0	full	14	14.97	14.67	18.72	74.473	23.96	PASS
		MCS0	26/0	10	10.84	10.53	14.59	28.774	23.96	PASS
		MCS0	52/37	13	13.61	13.28	17.35	54.325	23.96	PASS
		MCS0	106/53	13	13.54	13.21	17.28	53.456	23.96	PASS
		MCS0	242/61	13	13.62	13.35	17.39	54.828	23.96	PASS
60	5300	MCS0	full	14	14.92	14.63	18.68	73.790	23.96	PASS
		MCS0	26/8	11	11.15	10.85	14.90	30.903	23.96	PASS
		MCS0	52/40	13	13.48	13.25	17.27	53.333	23.96	PASS
		MCS0	106/54	13	13.44	13.19	17.22	52.723	23.96	PASS
		MCS0	242/61	13	13.4	13.18	17.19	52.360	23.96	PASS
64	5320	MCS0	full	14	15.13	14.84	18.89	77.446	23.96	PASS
		MCS0	26/8	10	10.89	10.62	14.66	29.242	23.96	PASS
		MCS0	52/40	12.5	12.34	12.15	16.15	41.210	23.96	PASS
		MCS0	106/54	12	11.94	11.75	15.75	37.584	23.96	PASS
		MCS0	242/61	11.5	11.62	11.33	15.38	34.514	23.96	PASS
100	5500	MCS0	full	14	14.25	14.02	18.04	63.680	23.96	PASS
		MCS0	26/0	10.5	9.53	9.32	13.33	21.528	23.96	PASS
		MCS0	52/37	11	9.85	9.65	13.65	23.174	23.96	PASS
		MCS0	106/53	10.5	9.52	9.27	13.30	21.380	23.96	PASS
		MCS0	242/61	10.5	9.48	9.22	13.25	21.135	23.96	PASS
116	5580	MCS0	full	15	15.04	14.83	18.84	76.560	23.96	PASS
		MCS0	26/0	10	9.74	9.41	13.48	22.284	23.96	PASS
		MCS0	52/37	12	11.89	11.63	15.66	36.813	23.96	PASS
		MCS0	106/53	13	13.44	13.26	17.25	53.088	23.96	PASS
		MCS0	242/61	13	13.41	13.22	17.22	52.723	23.96	PASS
140	5700	MCS0	full	14	13.95	13.68	17.72	59.156	23.79	PASS
		MCS0	26/8	8.5	8.02	7.89	11.86	15.346	23.79	PASS
		MCS0	52/40	8	7.17	6.82	10.90	12.303	23.79	PASS
		MCS0	106/54	8	7.12	6.76	10.85	12.162	23.79	PASS
		MCS0	242/61	7.5	6.35	6.13	10.14	10.328	23.79	PASS
144	5720(U-NII 2C)	MCS0	full	14	12.58	12.42	16.40	43.636	22.79	PASS
	5720(U-NII 3)	MCS0	full	14	7.89	7.70	11.70	14.791	29.83	PASS
	MCS0	26/0	12	9.20	8.98	18.81	76.033	29.83	PASS	
	MCS0	26/8	12	9.13	8.86	12.90	19.487	29.83	PASS	
	MCS0	52/37	15	11.52	11.27	15.30	33.862	29.83	PASS	
	MCS0	52/40	15	11.59	11.35	15.37	34.451	29.83	PASS	
	MCS0	106/53	16	13.42	13.23	17.23	52.800	29.83	PASS	
	MCS0	106/54	16	13.48	13.27	17.28	53.414	29.83	PASS	
149	5745	MCS0	full	14	13.53	13.36	17.35	54.277	29.83	PASS
		MCS0	26/0	15	15.07	14.74	18.81	76.033	29.83	PASS
		MCS0	26/8	13	12.34	12.21	16.18	41.495	29.83	PASS
		MCS0	52/37	13	12.38	12.25	16.22	41.879	29.83	PASS
		MCS0	106/53	13	12.29	12.15	16.12	40.926	29.83	PASS
157	5785	MCS0	242/61	13.5	12.96	12.78	16.77	47.534	29.83	PASS
		MCS0	full	15	15.12	14.79	18.86	76.913	29.83	PASS
		MCS0	26/8	14	13.43	13.22	17.23	52.845	29.83	PASS
		MCS0	52/40	14	13.25	13.08	17.07	50.933	29.83	PASS
		MCS0	106/54	14	13.38	13.15	17.17	52.119	29.83	PASS
165	5825	MCS0	242/61	14	13.47	13.29	17.28	53.456	29.83	PASS
		MCS0	full	15	14.97	14.63	18.70	74.131	29.83	PASS
		MCS0	26/8	13.5	12.89	12.67	16.68	46.559	29.83	PASS
		MCS0	52/40	13.5	13.34	13.09	17.12	51.523	29.83	PASS
		MCS0	106/54	13.5	13.41	13.17	17.19	52.360	29.83	PASS

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802.11ax_HE40_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
38	5190	MCS0	full	12.5	12.94	12.77	16.39	43.551	23.96	PASS
		MCS0	26/9	11	8.24	7.93	14.56	28.576	23.96	PASS
		MCS0	52/41	11	6.98	6.85	14.62	28.973	23.96	PASS
		MCS0	106/55	11	14.83	14.52	15.02	31.769	23.96	PASS
		MCS0	242/61	9	11.95	11.74	11.62	14.521	23.96	PASS
46	5230	MCS0	484/65	8	13.72	13.55	10.45	11.092	23.96	PASS
		MCS0	full	15	13.65	13.47	18.21	66.222	23.96	PASS
		MCS0	26/27	12	13.69	13.5	15.38	34.514	23.96	PASS
		MCS0	52/48	14	13.85	13.65	17.17	52.119	23.96	PASS
		MCS0	106/58	14	14.93	14.67	17.10	51.286	23.96	PASS
54	5270	MCS0	242/63	14	12.51	12.24	17.13	51.642	23.96	PASS
		MCS0	484/65	14	13.92	13.64	17.29	53.580	23.96	PASS
		MCS0	full	15	13.82	13.59	18.34	68.234	23.96	PASS
		MCS0	26/9	12.5	13.84	13.55	15.91	38.994	23.96	PASS
		MCS0	52/41	14	13.78	13.49	17.32	53.951	23.96	PASS
62	5310	MCS0	106/55	14	13.25	13.03	17.24	52.966	23.96	PASS
		MCS0	242/62	14	10.81	10.57	17.23	52.845	23.96	PASS
		MCS0	484/65	14	10.74	10.51	17.17	52.119	23.96	PASS
		MCS0	full	13.5	10.85	10.61	16.68	46.559	23.96	PASS
		MCS0	26/27	11	10.34	10.18	14.23	26.485	23.96	PASS
102	5510	MCS0	52/48	11	6.17	5.82	14.16	26.062	23.96	PASS
		MCS0	106/58	11	13.14	12.85	14.27	26.730	23.96	PASS
		MCS0	242/62	11	6.3	6.06	13.80	23.988	23.96	PASS
		MCS0	484/65	10	8.95	8.62	9.53	8.974	23.96	PASS
		MCS0	full	13.5	8.71	8.45	16.53	44.978	23.96	PASS
110	5550	MCS0	26/9	10	8.53	8.27	9.72	9.376	23.96	PASS
		MCS0	52/41	10	7.52	7.33	12.32	17.061	23.96	PASS
		MCS0	106/55	10	14.89	14.55	12.12	16.293	23.96	PASS
		MCS0	242/61	9.5	10.11	9.85	11.94	15.631	23.96	PASS
		MCS0	484/65	8	12.79	12.56	10.96	12.474	23.96	PASS
134	5670	MCS0	484/65	13	9.21	8.89	16.21	41.783	23.96	PASS
		MCS0	full	15	13.76	13.59	18.26	66.988	23.96	PASS
		MCS0	26/27	10.5	14.15	13.82	13.52	22.491	23.96	PASS
		MCS0	52/48	13	12.67	12.67	16.21	41.783	23.96	PASS
		MCS0	106/58	14	14.92	14.62	17.21	52.602	23.96	PASS
142	5710	MCS0	242/63	14.5	8.46	8.25	17.52	56.494	23.96	PASS
		MCS0	484/65	13	9.21	8.89	16.21	41.783	23.96	PASS
		MCS0	full	15	9.08	8.86	18.31	67.764	23.96	PASS
		MCS0	26/9	9	8.25	8.07	11.89	15.453	23.96	PASS
		MCS0	52/41	9.5	6.87	6.64	12.59	18.155	23.96	PASS
151	5755	MCS0	106/55	9.5	14.76	14.47	12.51	17.824	23.96	PASS
		MCS0	242/62	9	10.32	10.09	11.70	14.791	23.96	PASS
		MCS0	484/65	7.5	12.2	11.92	10.29	10.691	23.96	PASS
		MCS0	full	15	14.17	13.90	17.58	57.287	23.96	PASS
		MCS0	26/27	11	5.77	5.35	9.11	8.142	29.83	PASS
159	5795	MCS0	52/48	12	12.20	11.92	15.60	36.308	29.83	PASS
		MCS0	106/58	12	11.33	11.05	14.73	29.717	29.83	PASS
		MCS0	242/63	12	10.86	10.63	14.28	26.792	29.83	PASS
		MCS0	484/65	13	11.28	11.07	14.71	29.580	29.83	PASS
		MCS0	full	15.5	14.82	14.53	18.21	66.222	29.83	PASS
159	5795	MCS0	26/9	12.5	11.84	11.62	15.27	33.651	29.83	PASS
		MCS0	52/41	12	11.27	11.08	14.71	29.580	29.83	PASS
		MCS0	106/55	12.5	11.7	11.57	15.17	32.885	29.83	PASS
		MCS0	242/61	12	11.23	11.04	14.67	29.309	29.83	PASS
		MCS0	484/65	11.5	10.66	10.45	14.09	25.645	29.83	PASS
159	5795	MCS0	full	15.5	14.87	14.58	18.26	66.988	29.83	PASS
		MCS0	26/27	13	12.47	12.22	15.88	38.726	29.83	PASS
		MCS0	52/41	13	12.25	12.08	15.70	37.154	29.83	PASS
		MCS0	106/58	13.5	12.73	12.55	16.18	41.495	29.83	PASS
		MCS0	242/62	12.5	11.88	11.68	15.32	34.041	29.83	PASS
159	5795	MCS0	484/65	12.5	11.85	11.62	15.27	33.651	29.83	PASS

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802.11ax_HE80_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
42	5210	MCS0	full	11	10.81	10.62	14.21	26.363	23.96	PASS
		MCS0	996/67	7	7.53	7.25	10.88	12.246	23.96	PASS
58	5290	MCS0	full	11	11.19	10.94	14.56	28.576	23.98	PASS
		MCS0	996/67	8	9.48	9.15	12.81	19.099	23.98	PASS
106	5530	MCS0	full	12.5	12.13	11.82	15.47	35.237	23.79	PASS
		MCS0	996/67	8	7.97	7.81	11.38	13.740	23.79	PASS
122	5610	MCS0	full	15	14.31	14.05	17.67	58.479	23.79	PASS
		MCS0	996/67	9.5	9.74	9.39	13.06	20.230	23.79	PASS
138	5690(U-NII 2C)	MCS0	full	15	13.95	13.61	17.27	53.371	23.79	PASS
	5690 (U-NII 3)	MCS0	full	15	2.48	2.33	5.90	3.888	29.83	PASS
	5690	MCS0	996/67	10	9.24	9.06	12.64	18.365	29.83	PASS
155	5775	MCS0	full	15	14.37	14.06	17.71	59.020	29.83	PASS
		MCS0	996/67	9	8.44	8.22	11.82	15.205	29.83	PASS

802.11ax_HE160_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
50	5250	MCS0	full	9	8.81	8.66	12.07	16.106	23.98	PASS
		MCS0	1992/68	6.5	5.38	5.14	8.60	7.244	23.98	PASS
114	5570	MCS0	full	11	10.62	10.1	13.70	23.442	23.79	PASS
		MCS0	1992/68	12.5	12.35	12.11	15.57	36.058	23.79	PASS

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7 UNDESIRABLE RADIATED EMISSION MEASUREMENT

7.1 Standard Applicable

$EIRP = (E \cdot d)^2 / 30$, where E is the field strength in V/m, d is the measurement distance (3m), $EIRP$ is the equivalent isotropically radiated power in Watts.

7.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dBμV/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	f ≤ 5150 f ≥ 5350	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725			
15.407(b)(4)(i) RSS-247 §6.2.4.2	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

7.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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:

- The lower limit shall apply at the transition frequencies.

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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

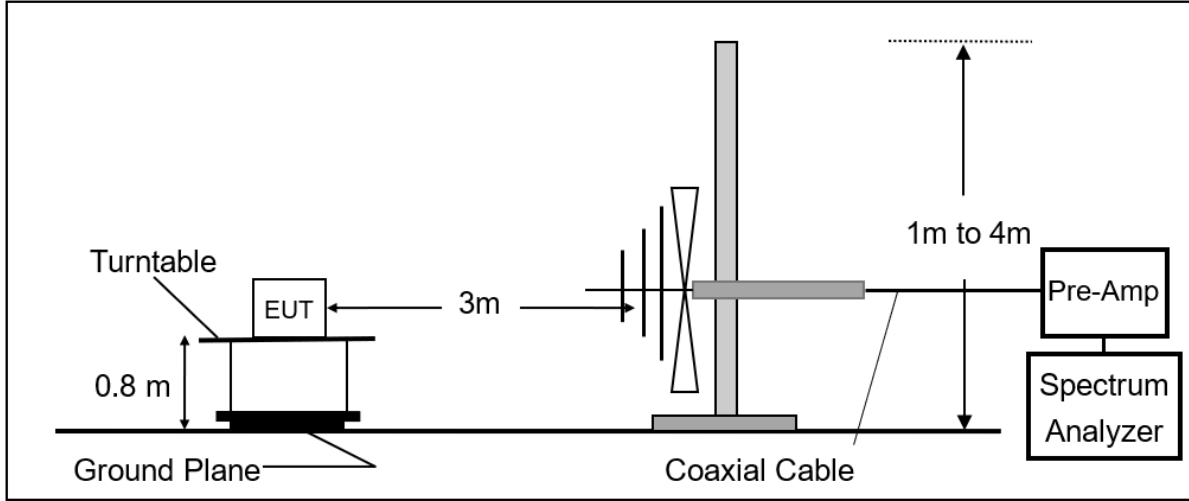
NOTE: N.C.R refers to Not Calibrated Required.

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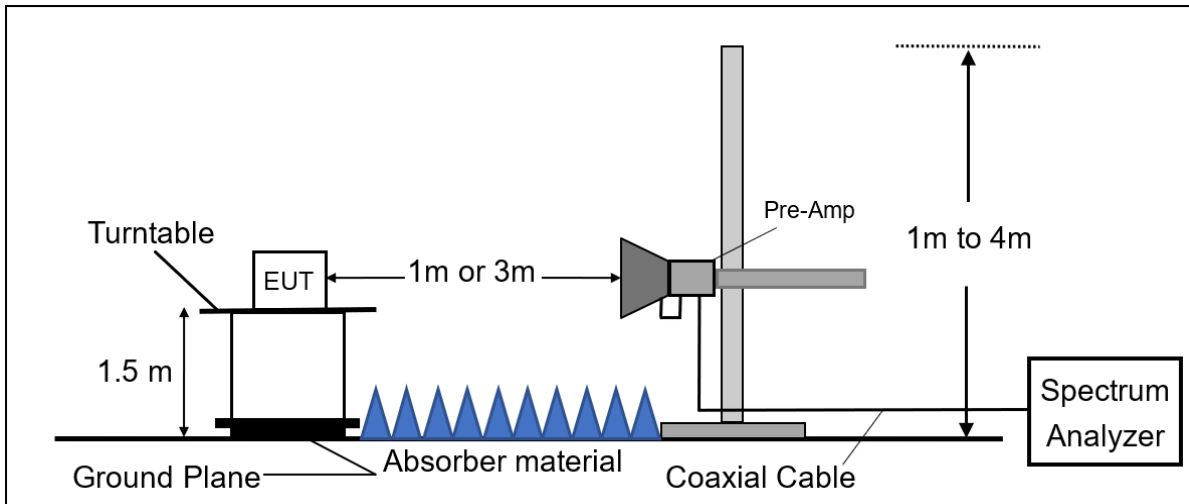
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7.3 Test Setup

(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 FCC KDB 789033 D02.
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 frequency 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 $20 \cdot \log(\mu V/m)$

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

Factor(dB) = Antenna Factor(dBμV/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) was not reported.

Pre-scan was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) was not reported.

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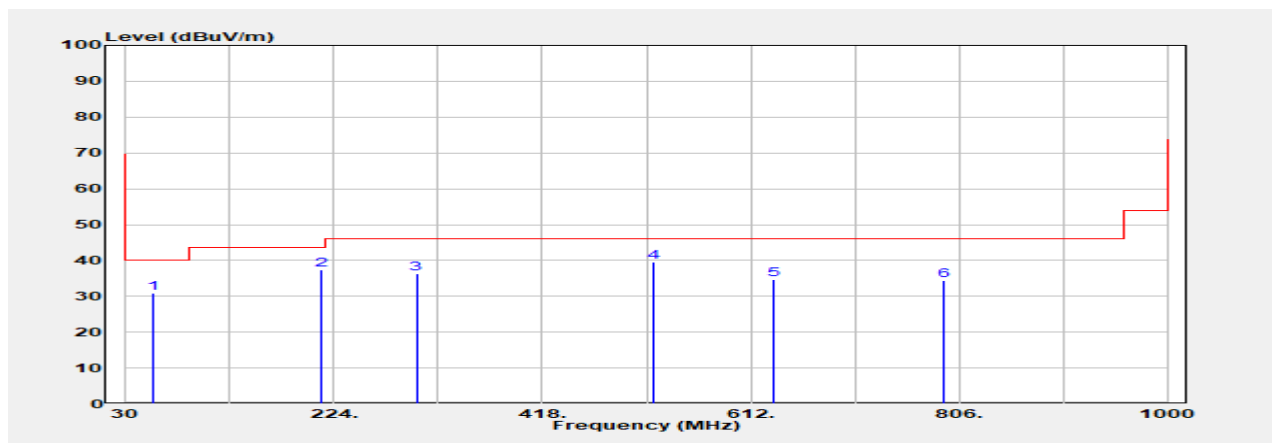
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7.7 Radiated Spurious Emission Measurement Result

7.7.1 Spurious Emission

Report Number	:E2/2022/30010	Test Site	:SAC G
Operation Mode	:802.11a	Test Date	:2022-03-23
Test Frequency	:5200 MHz	Temp./Humi.	:20.5/70
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	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
56.190	Peak	44.28	-13.32	30.96	40.00	-9.04
211.390	Peak	53.84	-16.35	37.49	43.50	-6.01
300.630	Peak	48.67	-12.49	36.18	46.00	-9.82
520.820	Peak	47.07	-7.53	39.54	46.00	-6.46
634.310	Peak	39.36	-4.72	34.64	46.00	-11.36
791.450	Peak	36.61	-2.31	34.30	46.00	-11.70

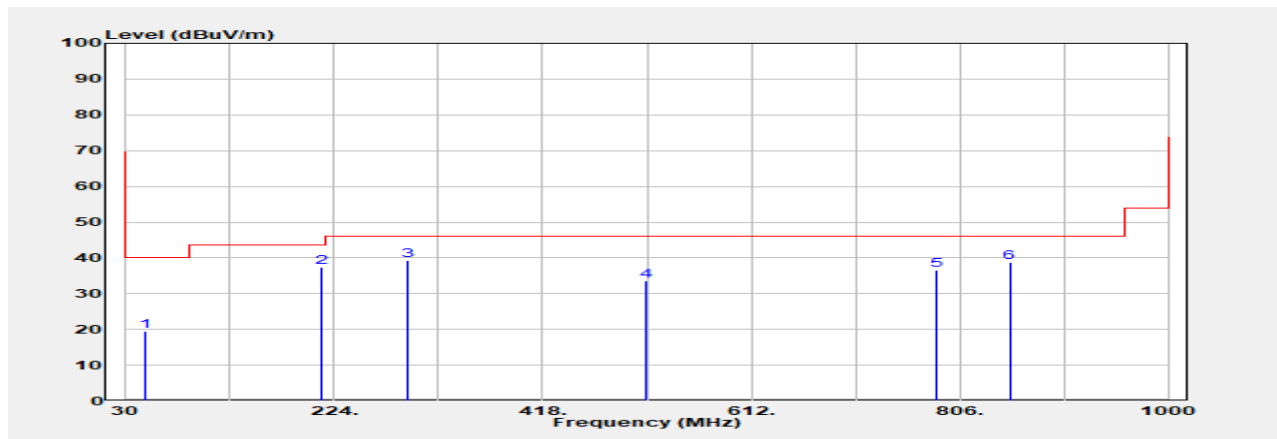
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5200 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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
47.460	Peak	32.46	-12.89	19.57	40.00	-20.43
212.360	Peak	53.79	-16.35	37.44	43.50	-6.06
291.900	Peak	51.79	-12.63	39.16	46.00	-6.84
515.000	Peak	40.94	-7.42	33.52	46.00	-12.48
783.690	Peak	39.15	-2.50	36.64	46.00	-9.36
852.560	Peak	40.16	-1.35	38.81	46.00	-7.19

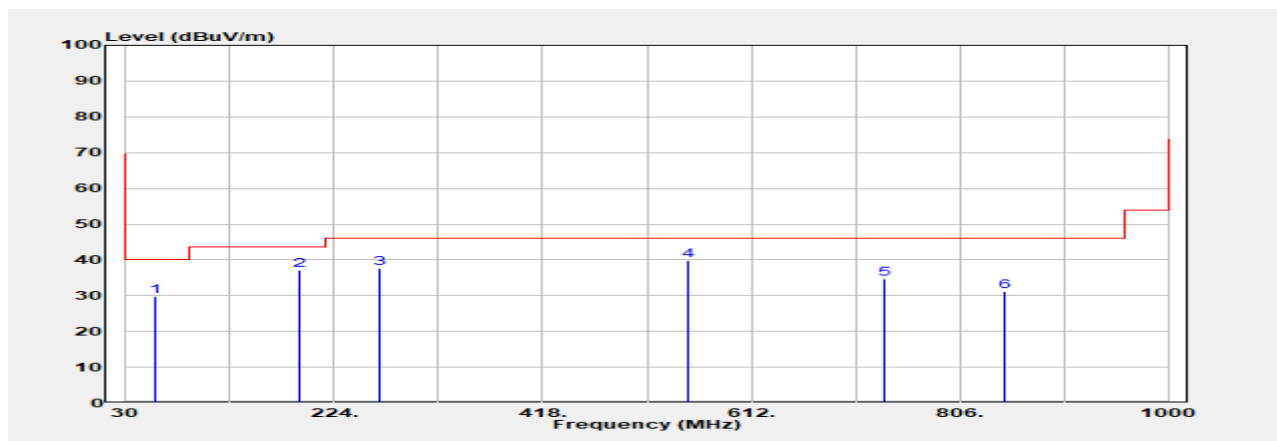
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
57.160	Peak	43.10	-13.41	29.69	40.00	-10.31
191.020	Peak	53.00	-15.79	37.21	43.50	-6.29
265.710	Peak	51.44	-13.71	37.73	46.00	-8.27
552.830	Peak	46.80	-6.90	39.90	46.00	-6.10
735.190	Peak	37.79	-3.00	34.79	46.00	-11.21
847.710	Peak	33.05	-1.78	31.27	46.00	-14.73

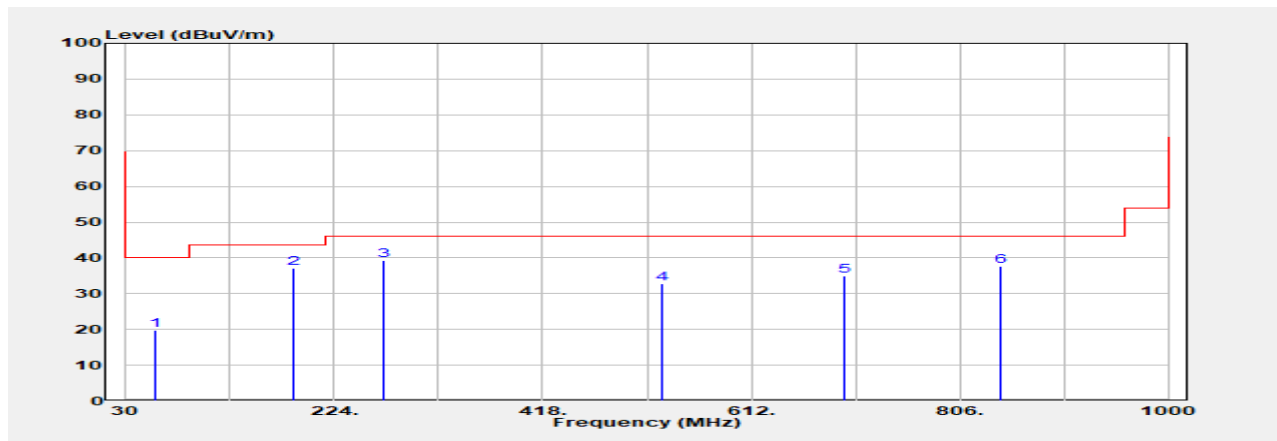
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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	33.34	-13.44	19.90	40.00	-20.10
186.170	Peak	52.24	-15.19	37.05	43.50	-6.45
270.560	Peak	52.58	-13.30	39.28	46.00	-6.72
529.550	Peak	40.03	-7.37	32.66	46.00	-13.34
699.300	Peak	38.86	-3.97	34.90	46.00	-11.10
844.800	Peak	39.35	-1.77	37.58	46.00	-8.42

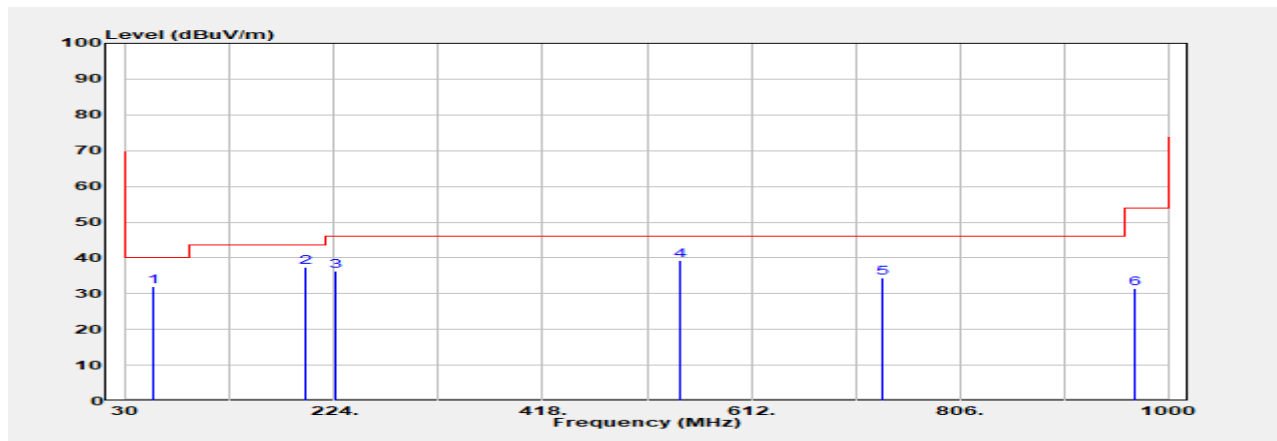
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
56.190	Peak	45.17	-13.32	31.85	40.00	-8.15
197.810	Peak	53.69	-16.22	37.47	43.50	-6.03
225.940	Peak	52.38	-16.05	36.33	46.00	-9.67
545.070	Peak	46.54	-7.13	39.41	46.00	-6.59
734.220	Peak	37.27	-2.96	34.31	46.00	-11.69
969.930	Peak	31.47	-0.01	31.46	54.00	-22.54

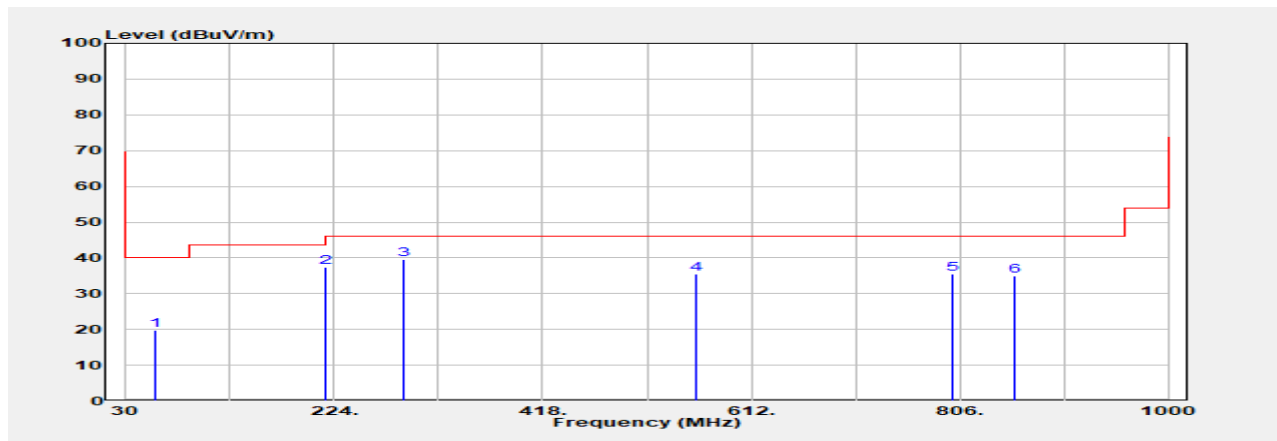
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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	33.15	-13.44	19.70	40.00	-20.30
215.270	Peak	53.61	-16.34	37.27	43.50	-6.23
288.020	Peak	52.36	-12.70	39.66	46.00	-6.34
560.590	Peak	41.90	-6.39	35.51	46.00	-10.49
799.210	Peak	37.58	-2.19	35.39	46.00	-10.61
857.410	Peak	35.93	-0.99	34.94	46.00	-11.06

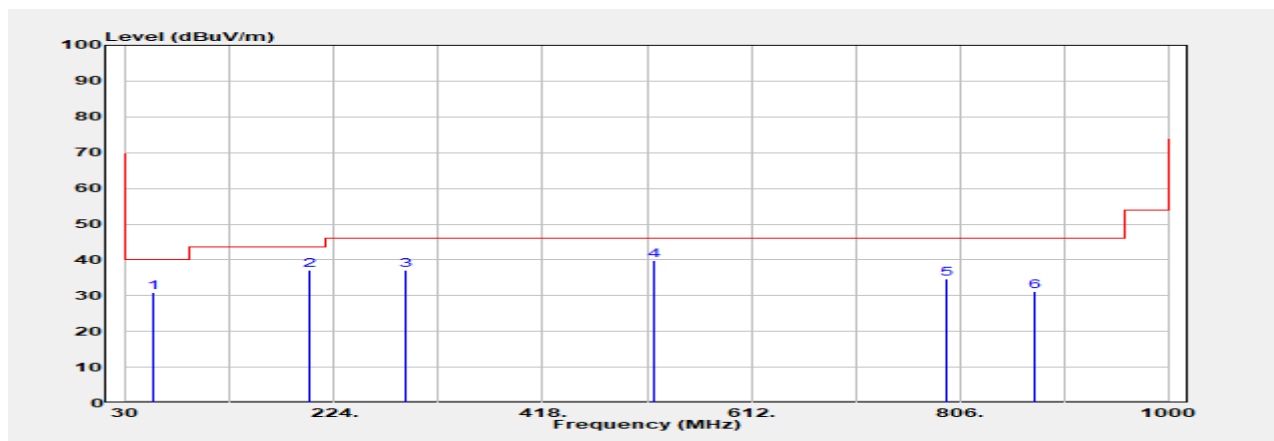
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
55.220	Peak	44.05	-13.29	30.76	40.00	-9.24
201.690	Peak	53.27	-16.25	37.02	43.50	-6.48
290.930	Peak	49.77	-12.65	37.12	46.00	-8.88
521.790	Peak	47.23	-7.49	39.74	46.00	-6.26
794.360	Peak	37.09	-2.40	34.69	46.00	-11.31
875.840	Peak	31.87	-0.83	31.04	46.00	-14.96

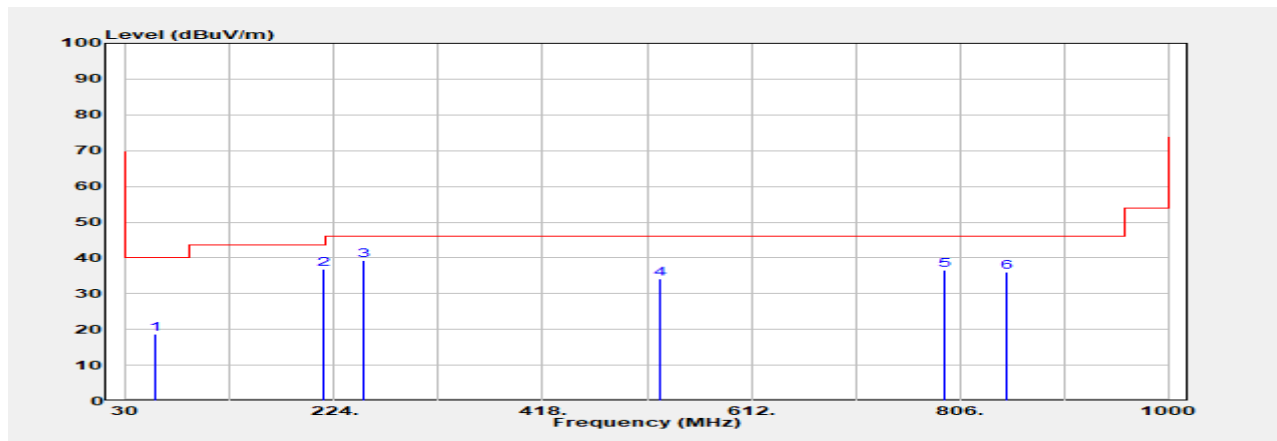
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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
57.160	Peak	32.05	-13.41	18.64	40.00	-21.36
214.300	Peak	53.08	-16.35	36.73	43.50	-6.77
251.160	Peak	53.37	-14.21	39.16	46.00	-6.84
527.610	Peak	41.47	-7.37	34.10	46.00	-11.90
791.450	Peak	38.91	-2.31	36.60	46.00	-9.40
850.620	Peak	37.70	-1.69	36.01	46.00	-9.99

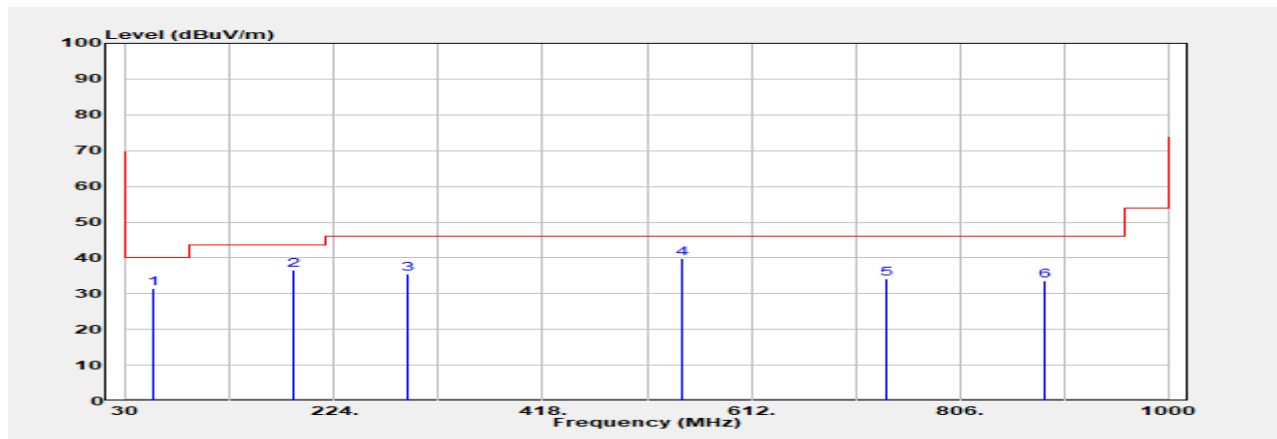
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
56.190	Peak	44.67	-13.32	31.35	40.00	-8.65
185.200	Peak	51.70	-15.06	36.63	43.50	-6.87
292.870	Peak	48.05	-12.62	35.43	46.00	-10.57
547.010	Peak	46.92	-6.98	39.95	46.00	-6.05
738.100	Peak	37.56	-3.31	34.25	46.00	-11.75
885.540	Peak	35.41	-1.75	33.66	46.00	-12.34

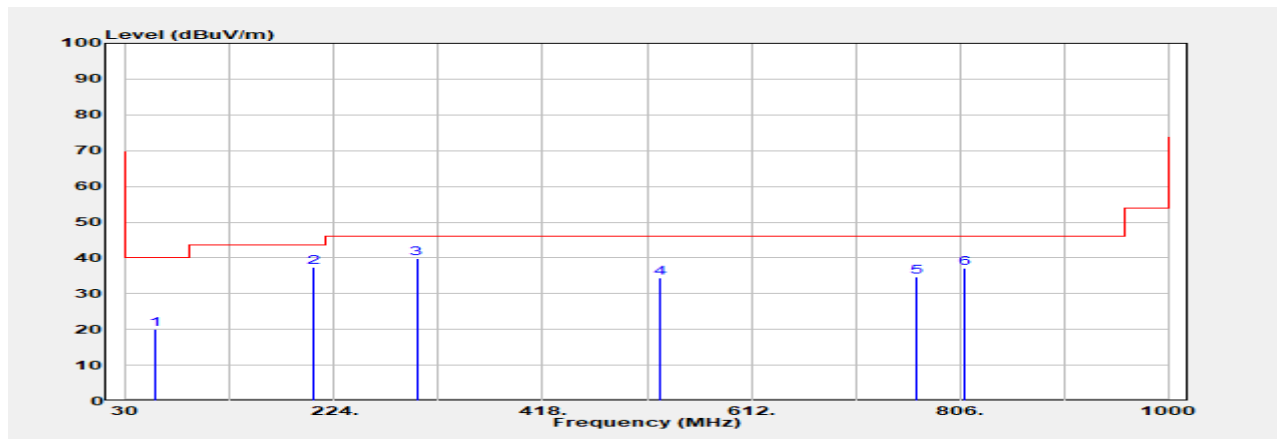
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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	33.50	-13.44	20.06	40.00	-19.94
204.600	Peak	53.68	-16.28	37.41	43.50	-6.09
300.630	Peak	52.24	-12.49	39.75	46.00	-6.25
527.610	Peak	41.75	-7.37	34.38	46.00	-11.62
765.260	Peak	37.87	-3.26	34.61	46.00	-11.39
810.850	Peak	39.34	-2.10	37.24	46.00	-8.76

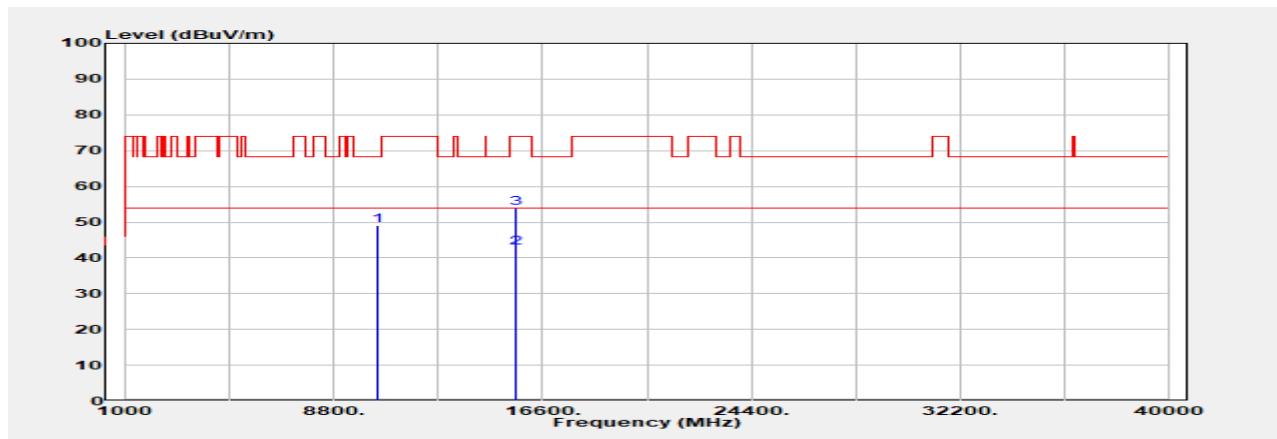
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5200 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10400.000	Peak	40.84	8.23	49.07	68.20	-19.13
15600.000	Average	31.64	11.27	42.91	54.00	-11.09
15600.000	Peak	42.59	11.27	53.86	74.00	-20.14

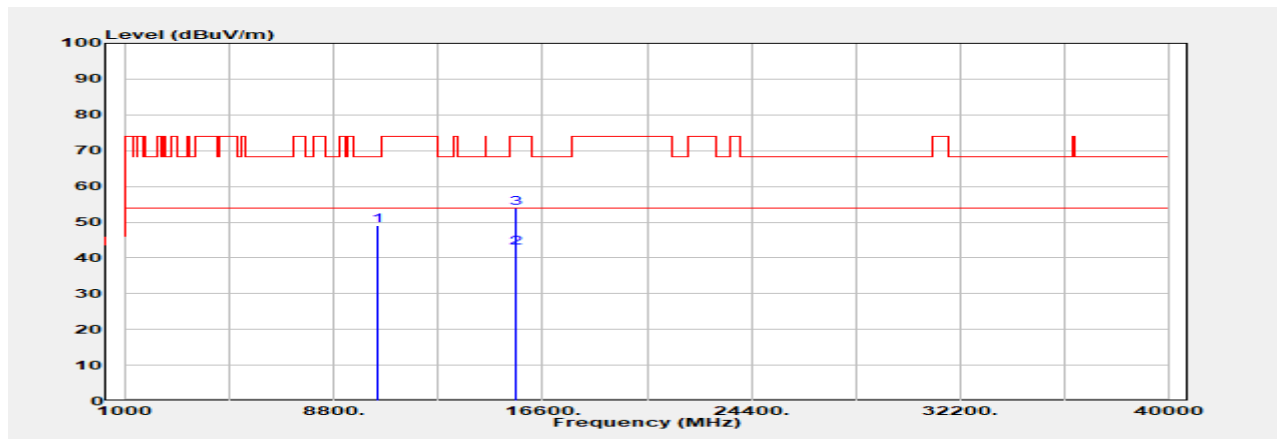
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5200 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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
10400.000	Peak	40.75	8.23	48.98	68.20	-19.22
15600.000	Average	31.63	11.27	42.90	54.00	-11.10
15600.000	Peak	42.60	11.27	53.87	74.00	-20.13

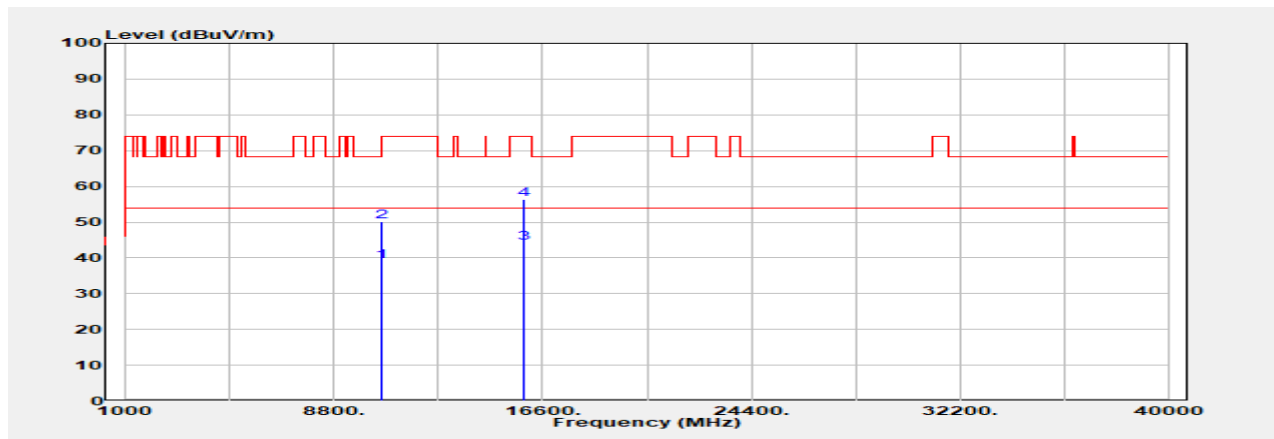
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.000	Average	30.03	8.99	39.02	54.00	-14.98
10600.000	Peak	41.18	8.99	50.17	74.00	-23.83
15900.000	Average	32.09	12.01	44.10	54.00	-9.90
15900.000	Peak	44.34	12.01	56.35	74.00	-17.65

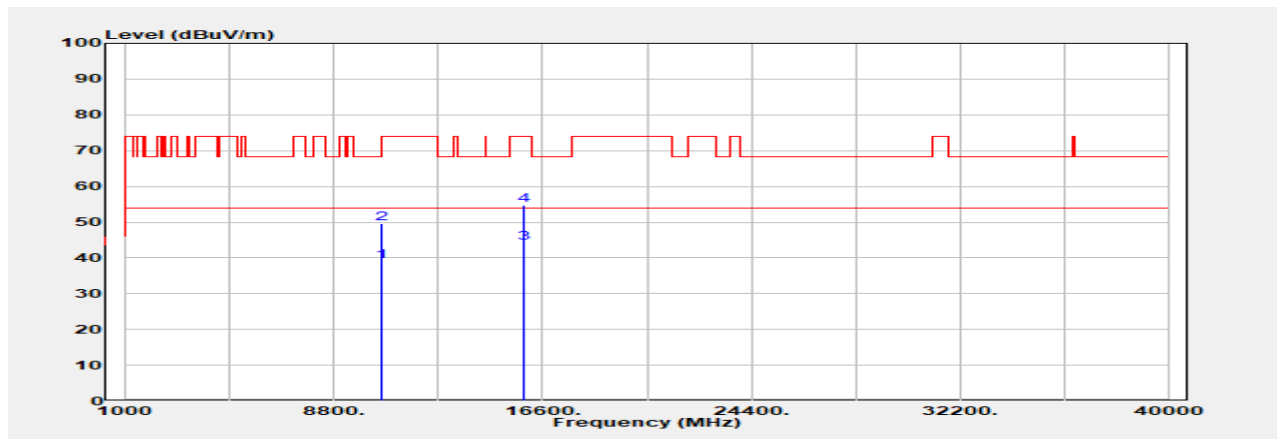
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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
10600.000	Average	30.01	8.99	39.00	54.00	-15.00
10600.000	Peak	40.68	8.99	49.67	74.00	-24.33
15900.000	Average	32.07	12.01	44.08	54.00	-9.92
15900.000	Peak	42.69	12.01	54.70	74.00	-19.30

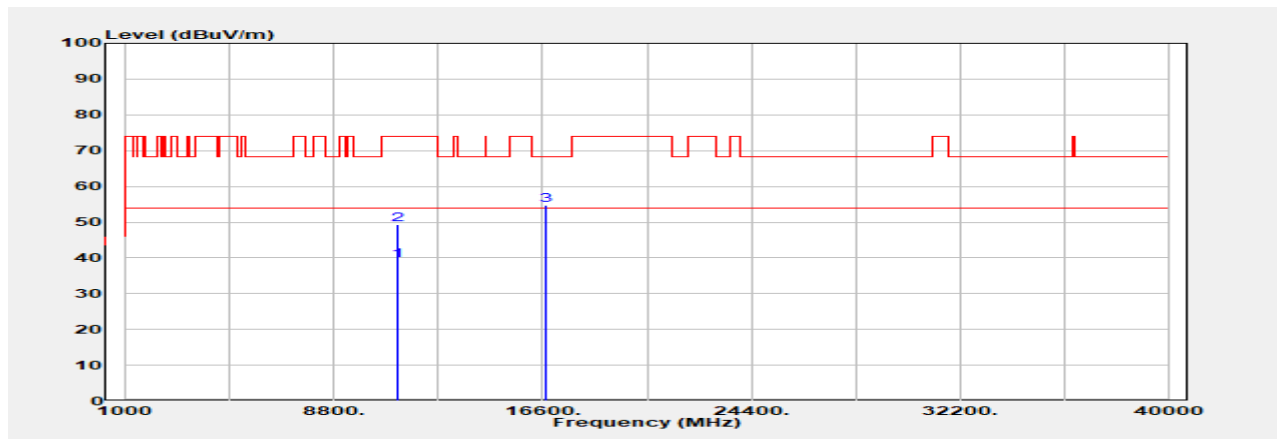
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.000	Average	29.92	9.36	39.28	54.00	-14.72
11160.000	Peak	39.98	9.36	49.34	74.00	-24.66
16740.000	Peak	43.51	11.29	54.80	68.20	-13.40

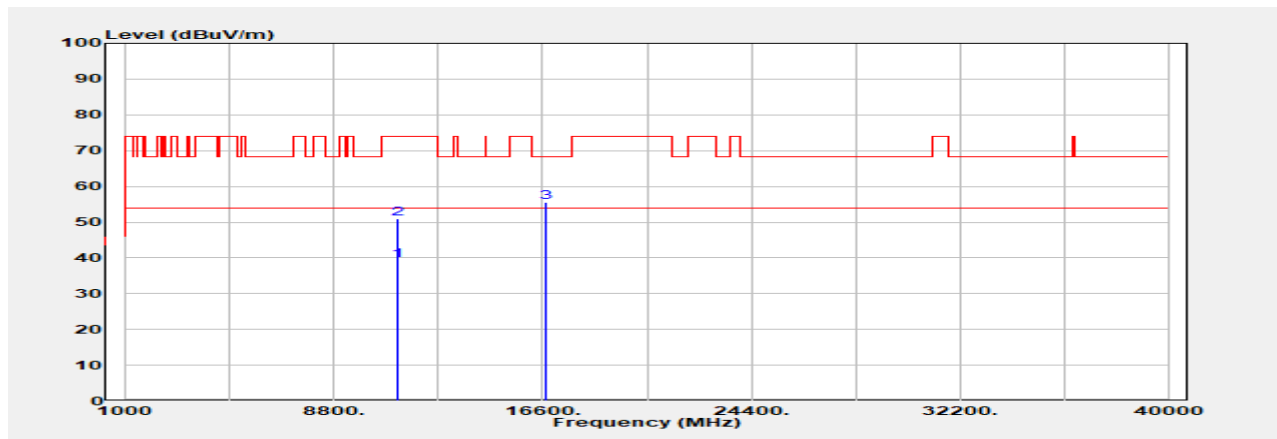
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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
11160.000	Average	29.97	9.36	39.33	54.00	-14.67
11160.000	Peak	41.50	9.36	50.86	74.00	-23.14
16740.000	Peak	44.35	11.29	55.64	68.20	-12.56

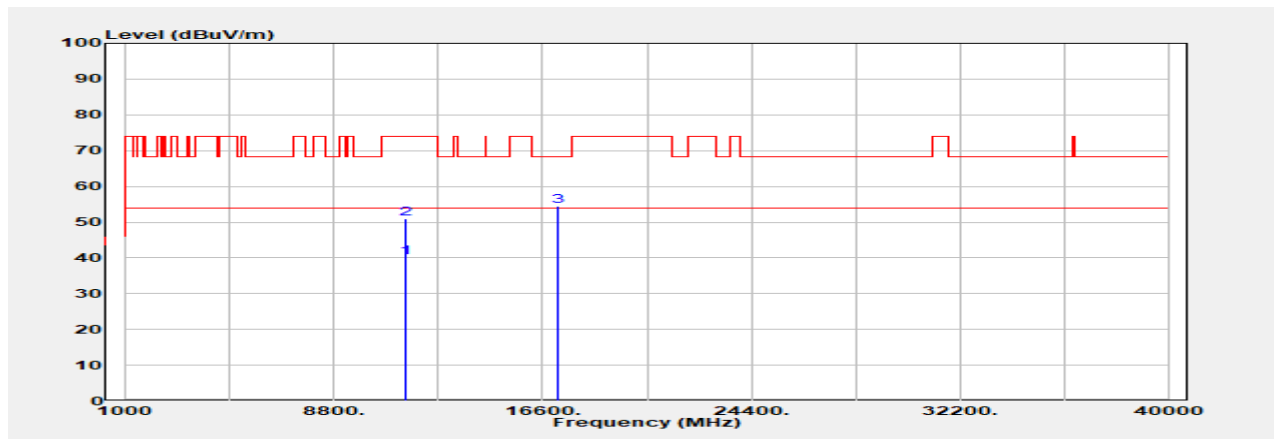
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11440.000	Average	29.96	10.18	40.14	54.00	-13.86
11440.000	Peak	40.79	10.18	50.97	74.00	-23.03
17160.000	Peak	43.37	11.02	54.40	68.20	-13.80

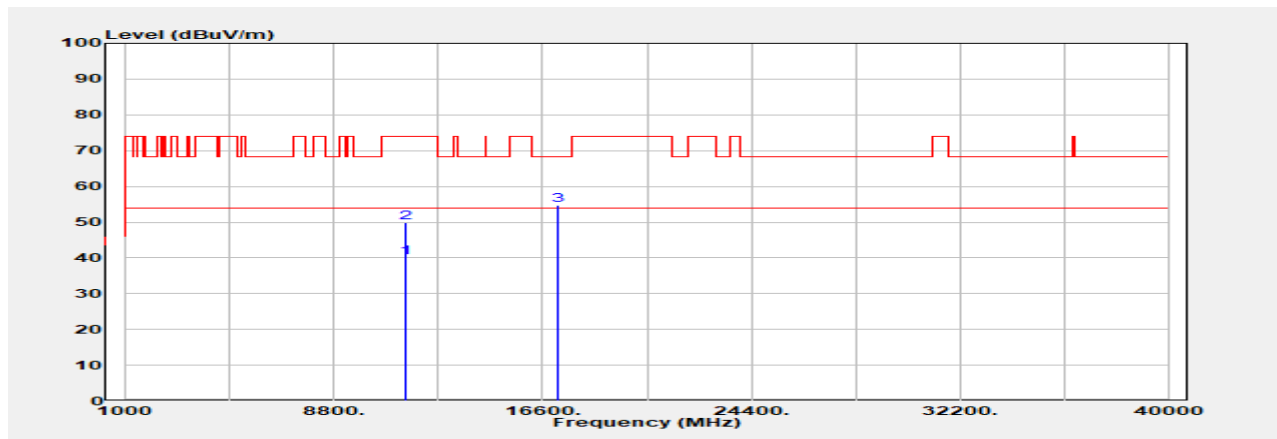
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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
11440.000	Average	29.90	10.18	40.08	54.00	-13.92
11440.000	Peak	39.67	10.18	49.85	74.00	-24.15
17160.000	Peak	43.70	11.02	54.72	68.20	-13.48

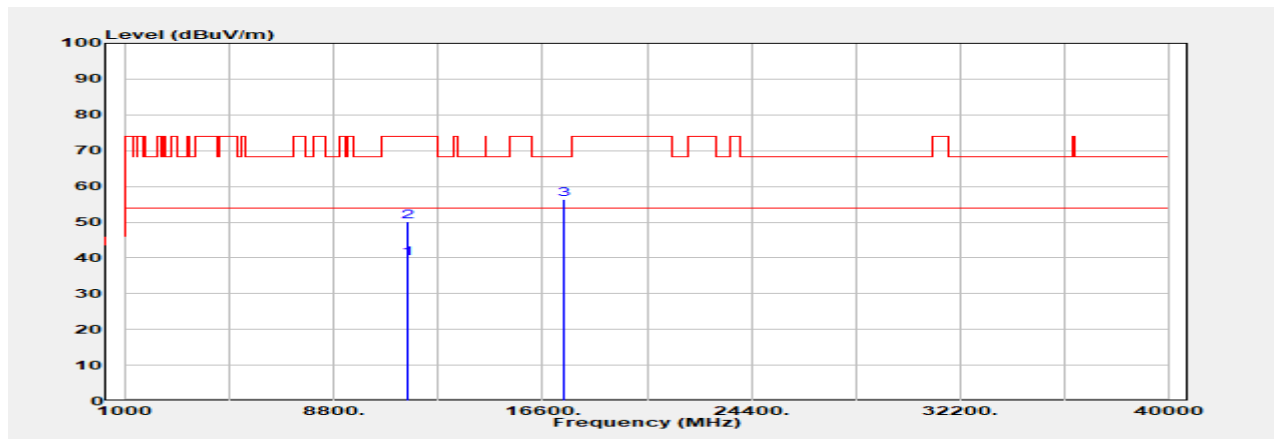
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.000	Average	29.81	10.00	39.80	54.00	-14.20
11570.000	Peak	40.18	10.00	50.18	74.00	-23.82
17355.000	Peak	45.40	10.90	56.30	68.20	-11.90

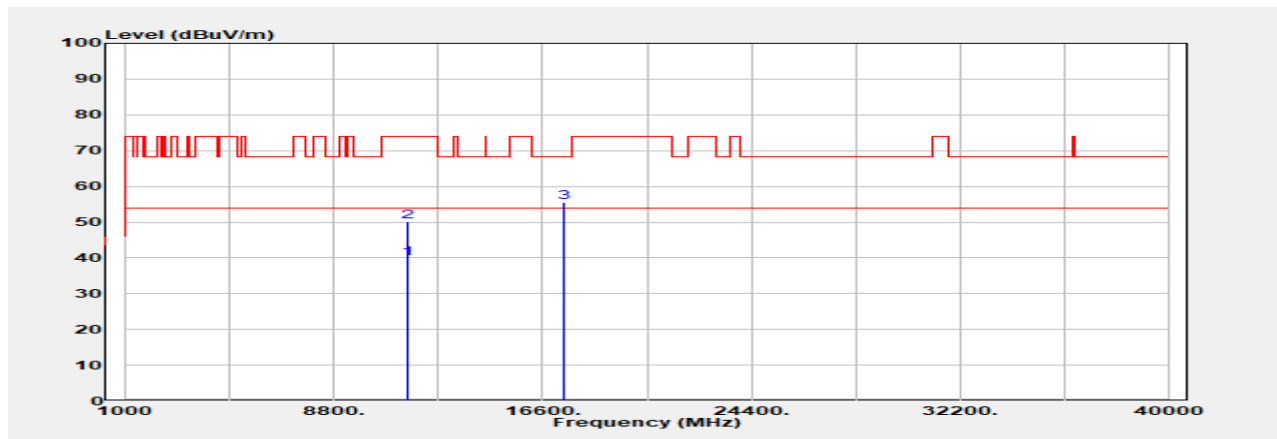
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

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
11570.000	Average	29.77	10.00	39.77	54.00	-14.23
11570.000	Peak	40.23	10.00	50.23	74.00	-23.77
17355.000	Peak	44.74	10.90	55.64	68.20	-12.56

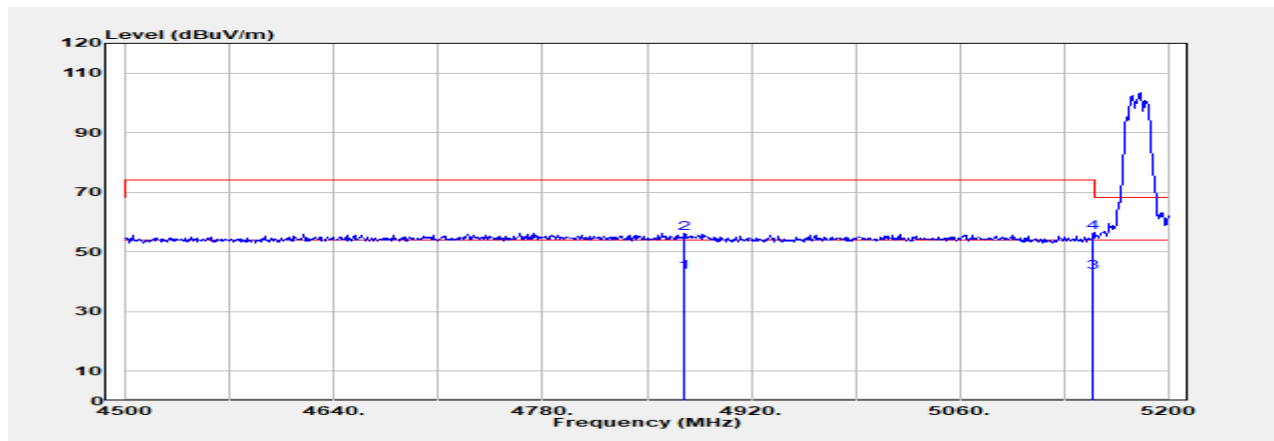
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7.7.2 Band edge falling to restricted band

Report Number	:E2/2022/30010	Test Site	:SAC G
Operation Mode	:802.11a	Test Date	:2022-03-17
Test Frequency	:5180 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH LOW	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
4875.200	Average	39.99	3.25	43.24	54.00	-10.76
4875.200	Peak	53.04	3.25	56.29	74.00	-17.71
5150.000	Average	40.12	3.03	43.15	54.00	-10.85
5150.000	Peak	53.44	3.03	56.47	74.00	-17.53

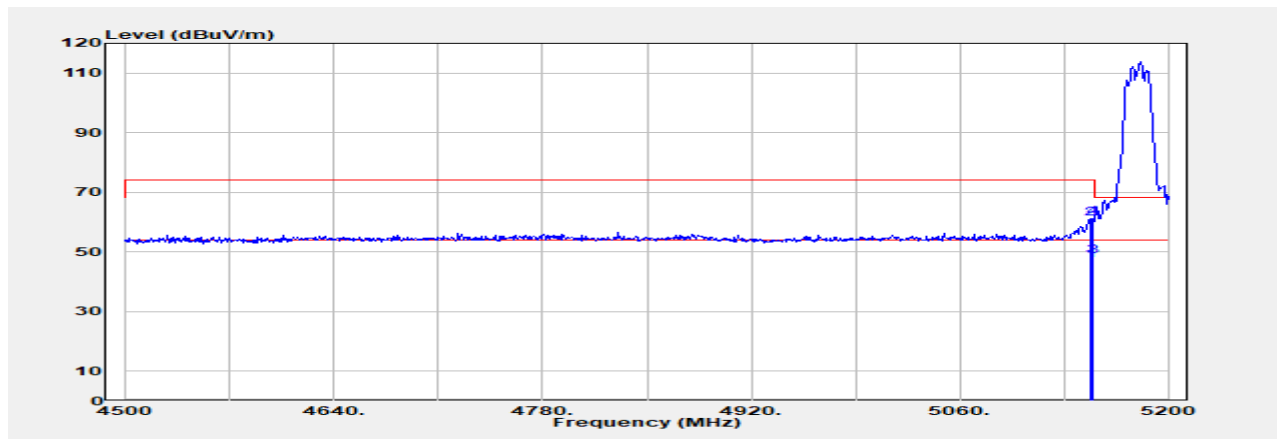
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5147.500	Average	44.08	2.97	47.05	54.00	-6.95
5147.500	Peak	58.25	2.97	61.22	74.00	-12.78
5150.000	Average	45.29	3.03	48.32	54.00	-5.68
5150.000	Peak	58.32	3.03	61.35	74.00	-12.65

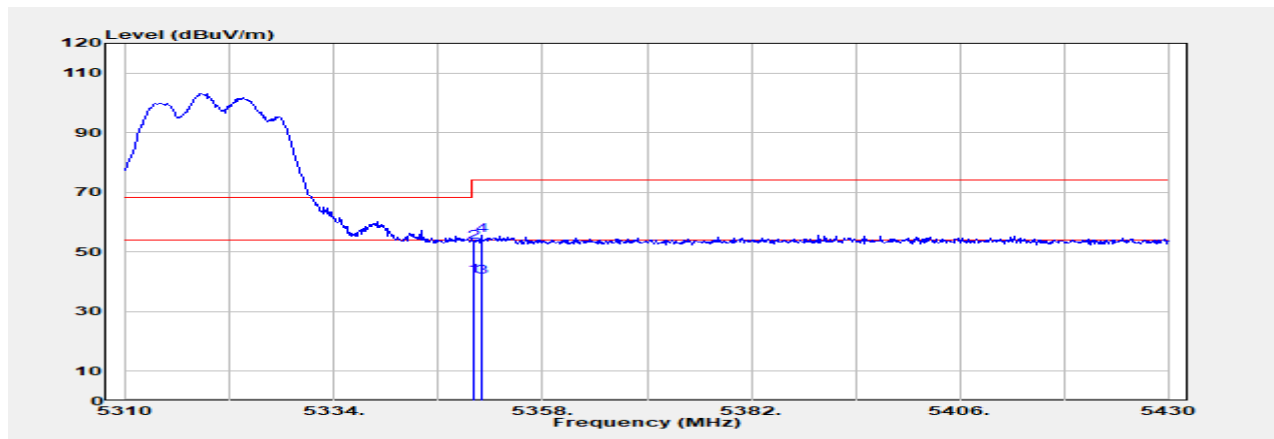
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5350.000	Average	39.67	2.21	41.88	54.00	-12.12
5350.000	Peak	51.13	2.21	53.34	74.00	-20.66
5350.920	Average	39.50	2.21	41.71	54.00	-12.29
5350.920	Peak	53.50	2.21	55.72	74.00	-18.28

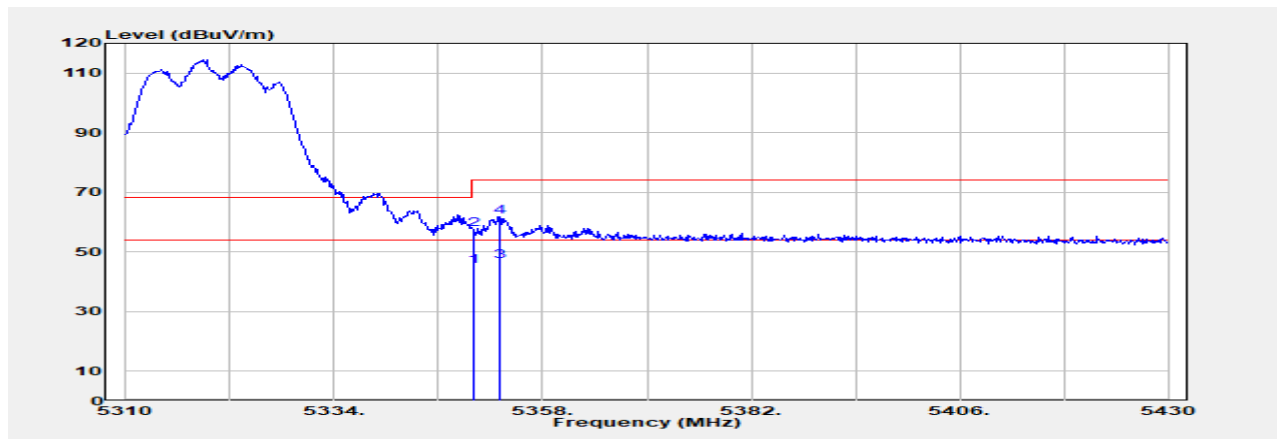
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5350.000	Average	42.91	2.21	45.12	54.00	-8.88
5350.000	Peak	55.24	2.21	57.45	74.00	-16.55
5352.960	Average	44.78	2.21	46.99	54.00	-7.01
5352.960	Peak	59.67	2.21	61.89	74.00	-12.11

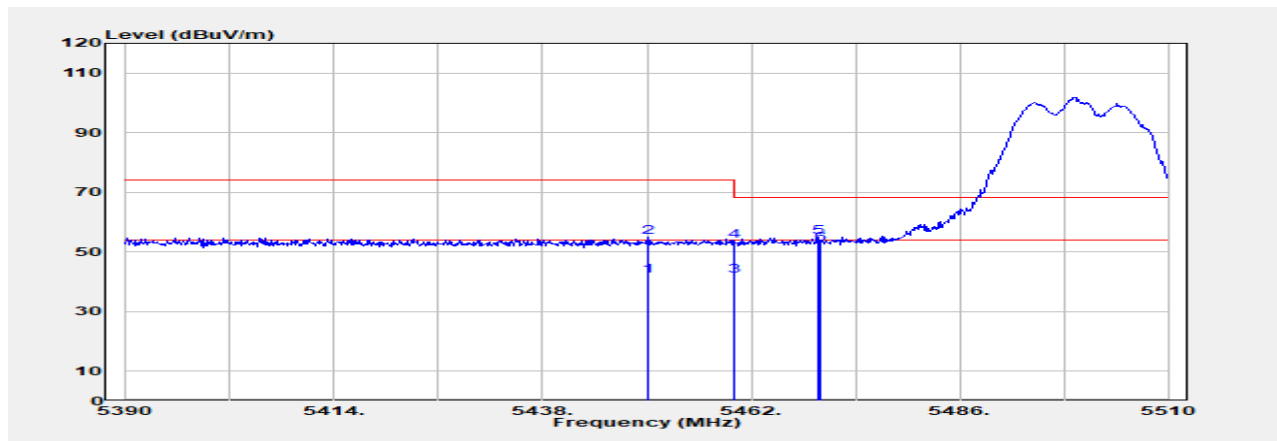
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5450.120	Average	39.39	2.60	41.99	54.00	-12.01
5450.120	Peak	52.21	2.60	54.81	74.00	-19.19
5460.000	Average	39.29	2.64	41.93	54.00	-12.07
5460.000	Peak	50.99	2.64	53.63	74.00	-20.37
5469.680	Peak	52.23	2.77	54.99	68.20	-13.21
5470.000	Peak	50.02	2.77	52.79	68.20	-15.41

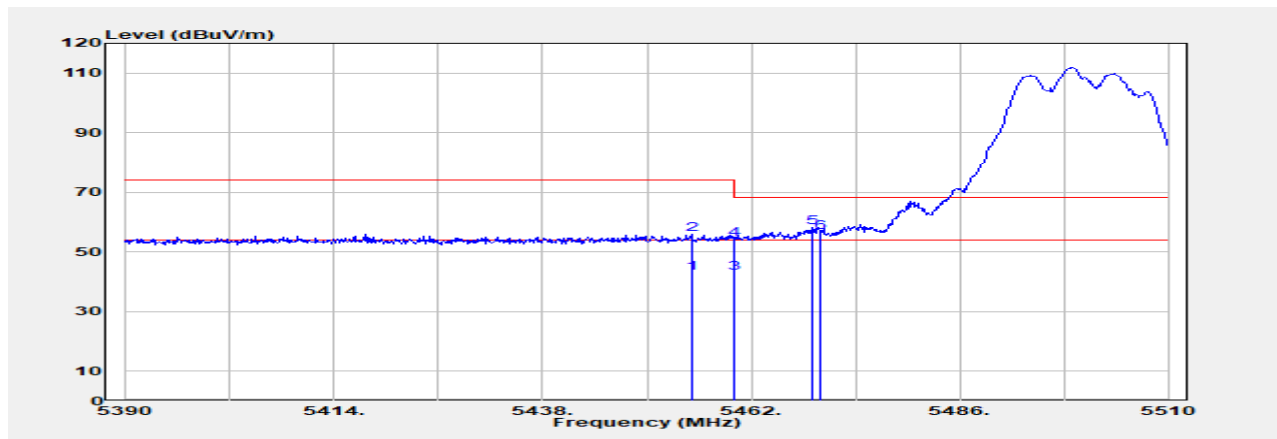
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5455.160	Average	40.20	2.62	42.82	54.00	-11.18
5455.160	Peak	53.44	2.62	56.06	74.00	-17.94
5460.000	Average	40.21	2.64	42.85	54.00	-11.15
5460.000	Peak	51.64	2.64	54.28	74.00	-19.72
5468.960	Peak	55.51	2.76	58.27	68.20	-9.93
5470.000	Peak	53.69	2.77	56.46	68.20	-11.74

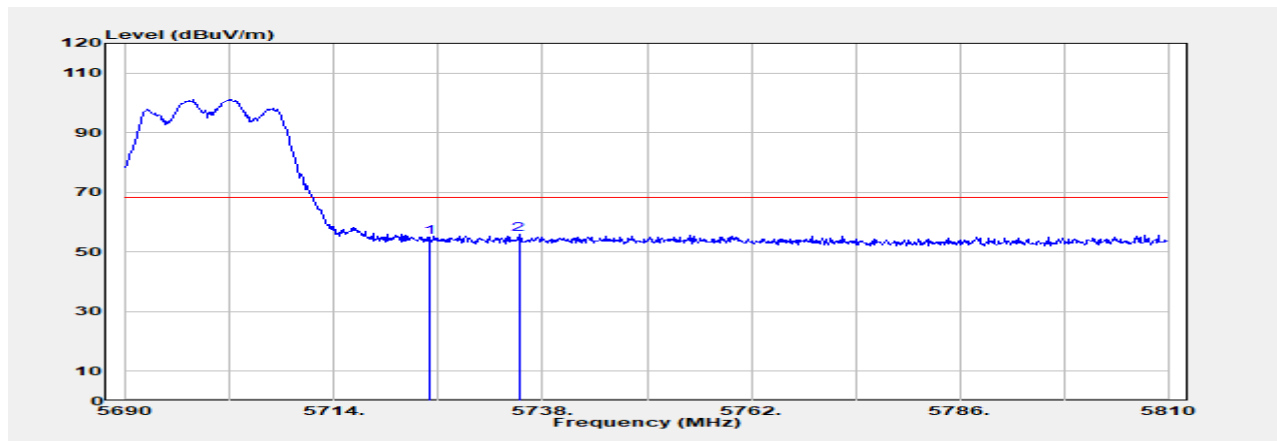
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5725.000	Peak	50.73	4.21	54.94	68.20	-13.26
5735.240	Peak	51.67	4.30	55.96	68.20	-12.24

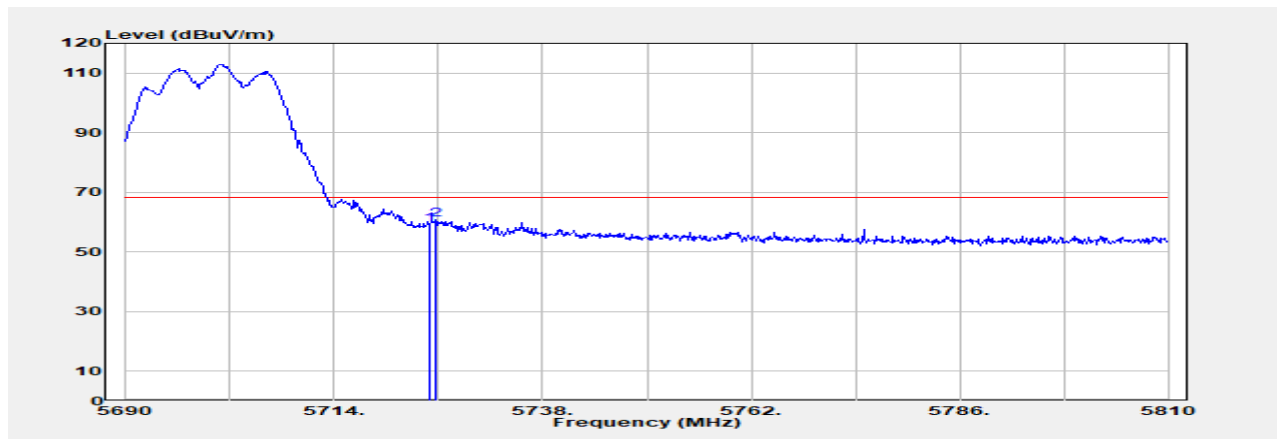
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5725.000	Peak	54.91	4.21	59.12	68.20	-9.08
5725.760	Peak	56.44	4.22	60.65	68.20	-7.55

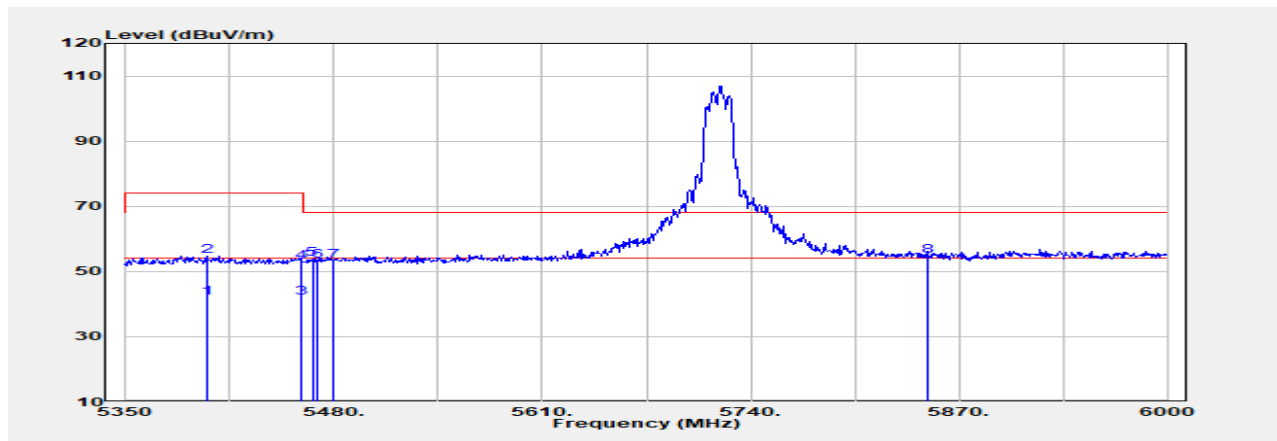
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5720 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5400.700	Average	39.48	2.54	42.02	54.00	-11.98
5400.700	Peak	52.28	2.54	54.83	74.00	-19.17
5460.000	Average	39.14	2.64	41.78	54.00	-12.22
5460.000	Peak	50.25	2.64	52.89	74.00	-21.11
5466.350	Peak	51.19	2.72	53.91	68.20	-14.29
5470.000	Peak	50.52	2.77	53.29	68.20	-14.91
5480.000	Peak	50.57	2.76	53.33	68.20	-14.87
5850.000	Peak	50.37	4.31	54.68	68.20	-13.52

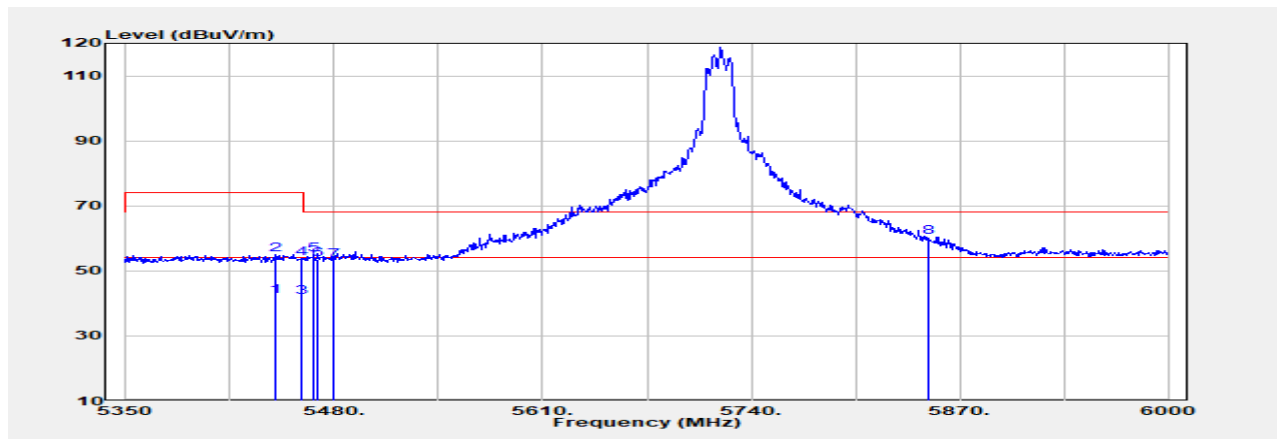
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5720 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5443.600	Average	39.70	2.41	42.11	54.00	-11.89
5443.600	Peak	52.73	2.41	55.15	74.00	-18.85
5460.000	Average	39.35	2.64	41.99	54.00	-12.01
5460.000	Peak	51.33	2.64	53.97	74.00	-20.03
5467.000	Peak	52.27	2.73	55.00	68.20	-13.20
5470.000	Peak	50.81	2.77	53.58	68.20	-14.62
5480.000	Peak	50.51	2.76	53.27	68.20	-14.93
5850.000	Peak	56.11	4.31	60.42	68.20	-7.78

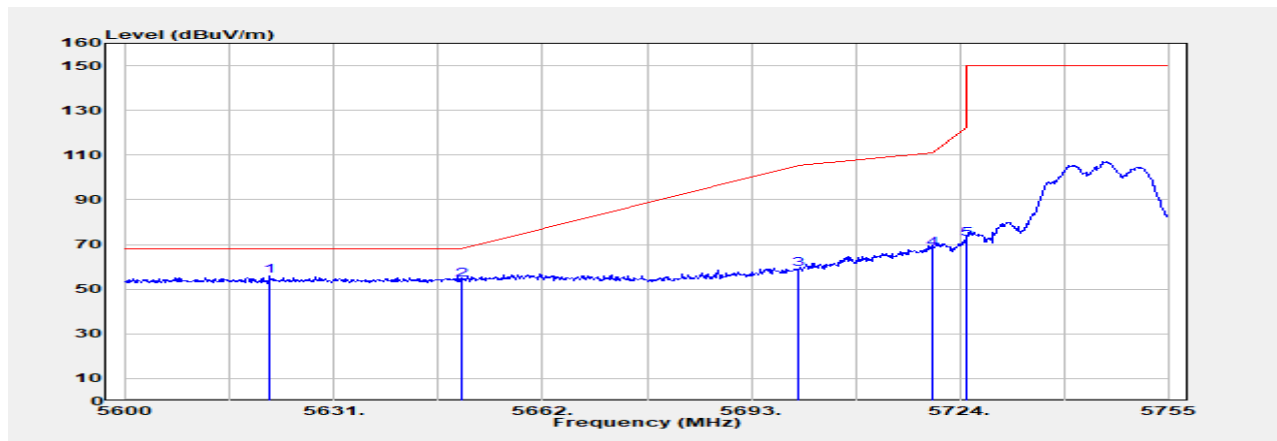
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5621.390	Peak	52.34	3.45	55.78	68.20	-12.42
5650.000	Peak	50.58	3.60	54.18	68.20	-14.02
5700.000	Peak	55.55	3.31	58.86	105.20	-46.34
5720.000	Peak	63.99	4.17	68.16	110.80	-42.64
5725.000	Peak	68.22	4.21	72.43	122.20	-49.77

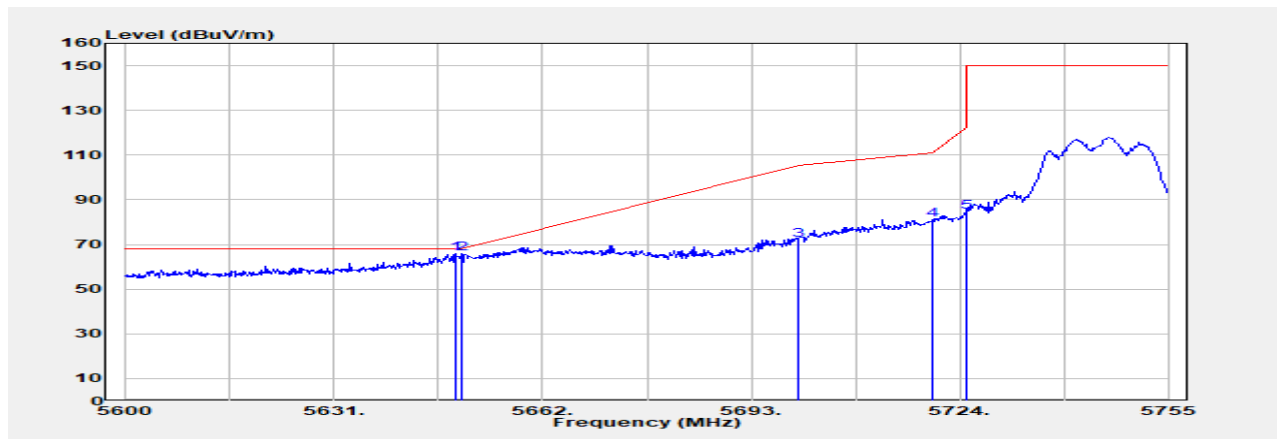
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5648.980	Peak	62.13	3.58	65.71	68.20	-2.49
5650.000	Peak	62.12	3.60	65.72	68.20	-2.48
5700.000	Peak	68.57	3.31	71.88	105.20	-33.32
5720.000	Peak	76.78	4.17	80.95	110.80	-29.85
5725.000	Peak	80.23	4.21	84.44	122.20	-37.76

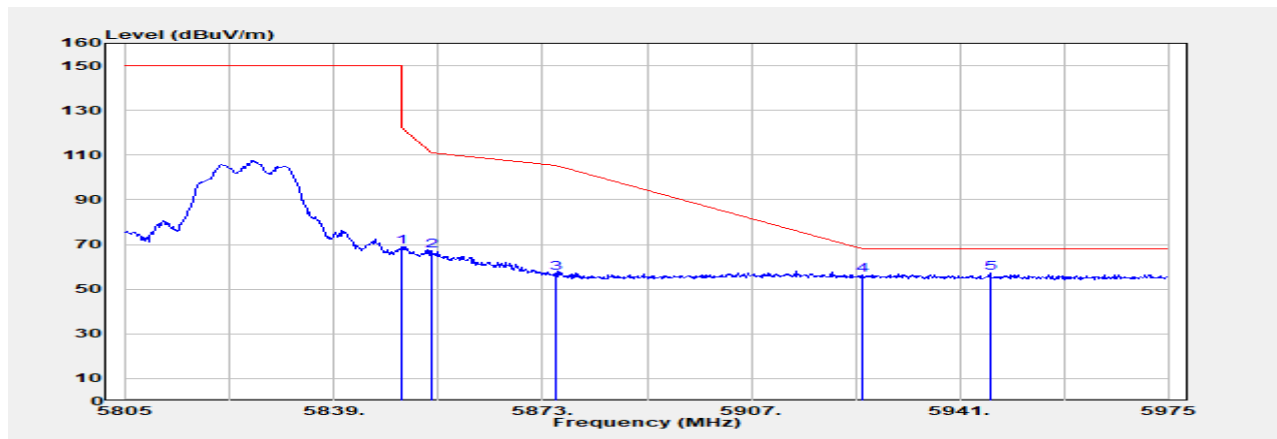
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5850.000	Peak	64.43	4.31	68.74	122.20	-53.46
5855.000	Peak	62.88	4.21	67.09	110.80	-43.71
5875.000	Peak	53.26	3.90	57.16	105.20	-48.04
5925.000	Peak	51.81	4.36	56.17	68.20	-12.03
5945.930	Peak	53.04	4.08	57.12	68.20	-11.08

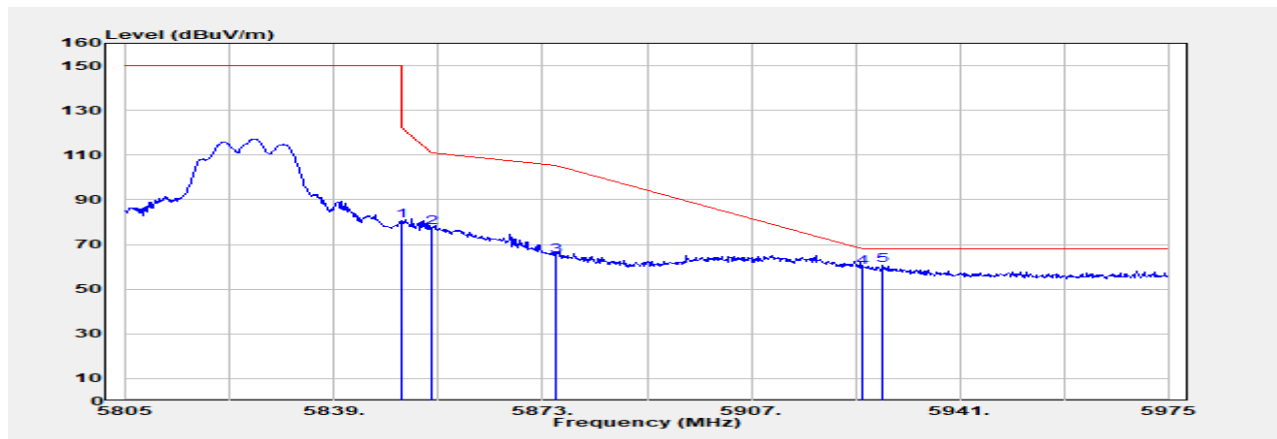
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Report Number :E2/2022/30010
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5850.000	Peak	76.52	4.31	80.83	122.20	-41.37
5855.000	Peak	73.50	4.21	77.71	110.80	-33.09
5875.000	Peak	61.25	3.90	65.15	105.20	-40.05
5925.000	Peak	55.27	4.36	59.62	68.20	-8.58
5928.420	Peak	56.37	4.34	60.72	68.20	-7.48

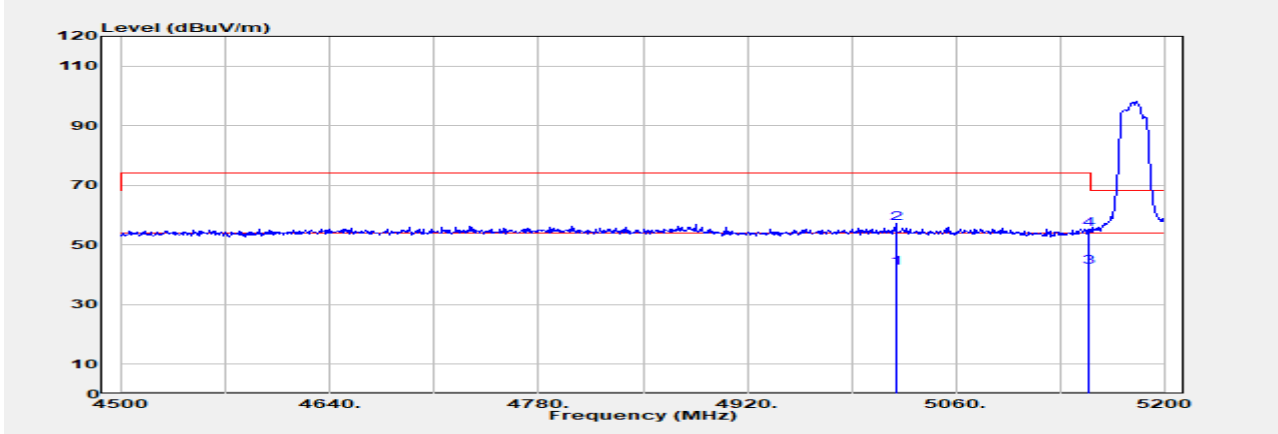
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5020.100	Average	39.00	3.18	42.18	54.00	-11.82
5020.100	Peak	54.12	3.18	57.30	74.00	-16.70
5150.000	Average	39.46	3.03	42.49	54.00	-11.51
5150.000	Peak	52.11	3.03	55.14	74.00	-18.86

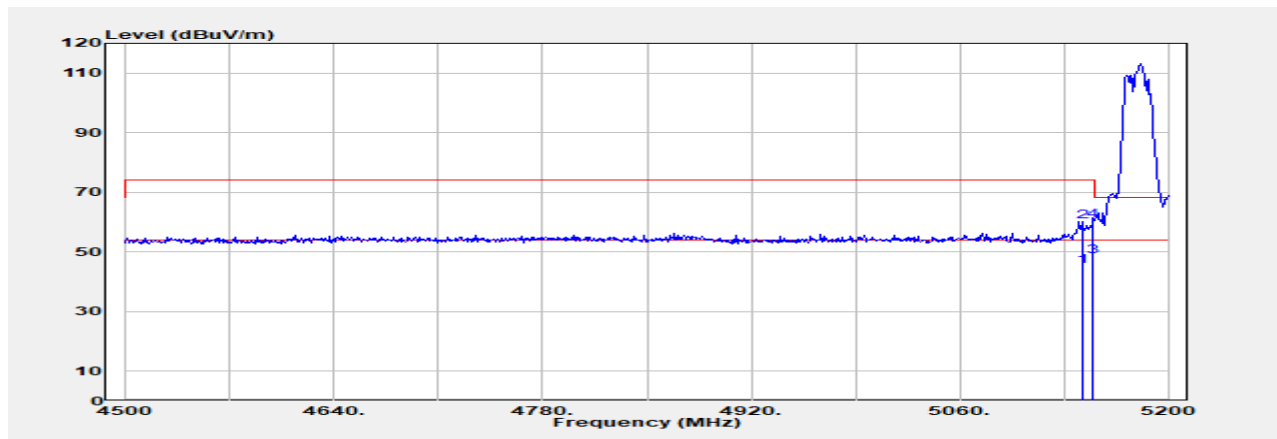
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5142.600	Average	42.34	2.85	45.19	54.00	-8.81
5142.600	Peak	57.33	2.85	60.18	74.00	-13.82
5150.000	Average	45.27	3.03	48.30	54.00	-5.70
5150.000	Peak	57.45	3.03	60.48	74.00	-13.52

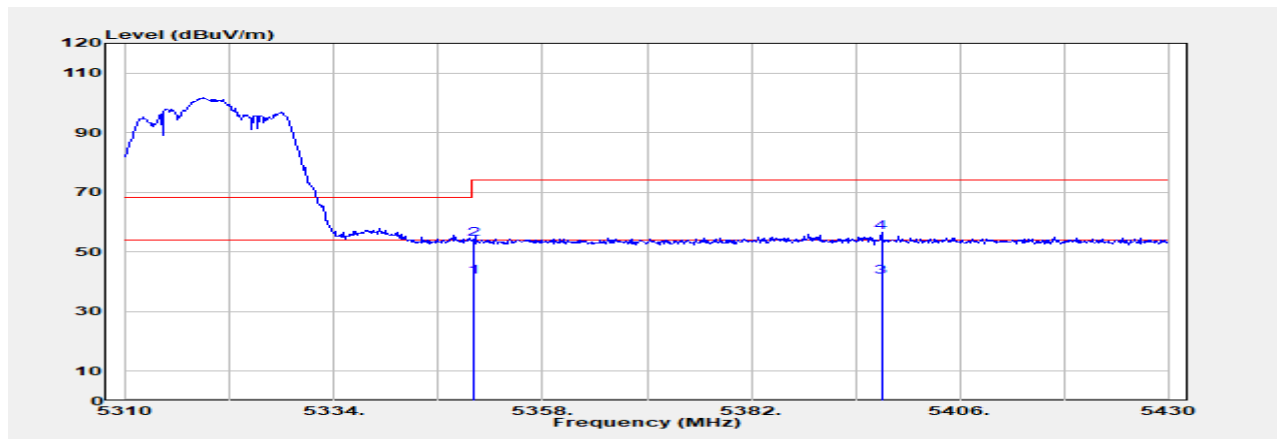
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5350.000	Average	39.57	2.21	41.78	54.00	-12.22
5350.000	Peak	51.97	2.21	54.18	74.00	-19.82
5397.000	Average	39.18	2.56	41.75	54.00	-12.25
5397.000	Peak	53.96	2.56	56.53	74.00	-17.47

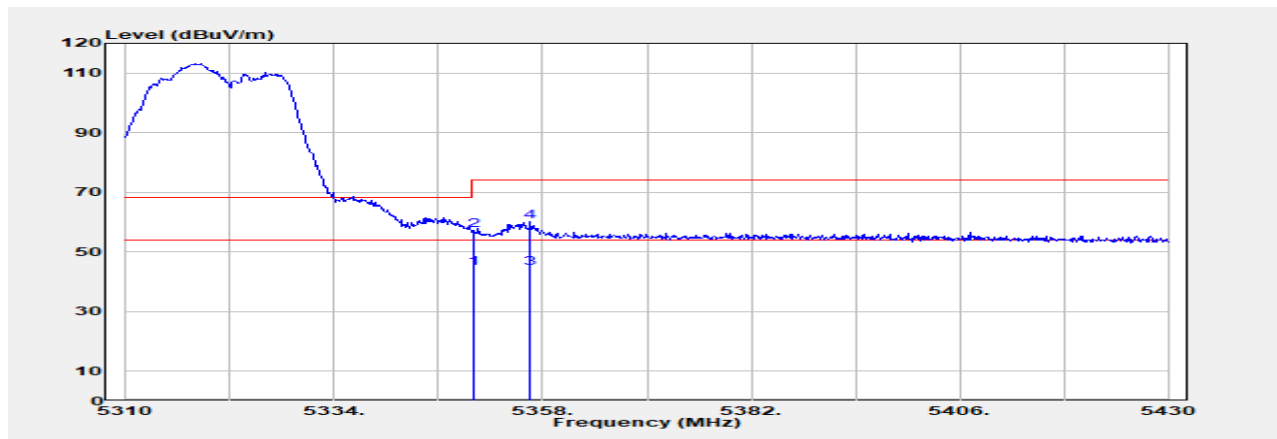
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5350.000	Average	42.35	2.21	44.56	54.00	-9.44
5350.000	Peak	55.12	2.21	57.33	74.00	-16.67
5356.560	Average	42.26	2.22	44.47	54.00	-9.53
5356.560	Peak	57.88	2.22	60.10	74.00	-13.90

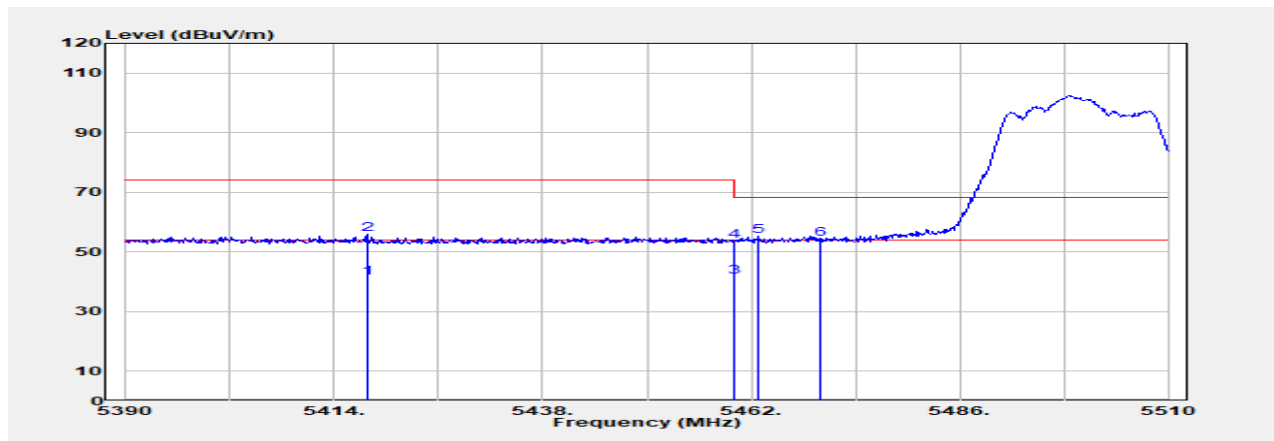
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5417.720	Average	38.94	2.44	41.39	54.00	-12.61
5417.720	Peak	53.36	2.44	55.80	74.00	-18.20
5460.000	Average	39.11	2.64	41.75	54.00	-12.25
5460.000	Peak	51.06	2.64	53.70	74.00	-20.30
5462.840	Peak	52.68	2.68	55.36	68.20	-12.84
5470.000	Peak	51.42	2.77	54.19	68.20	-14.01

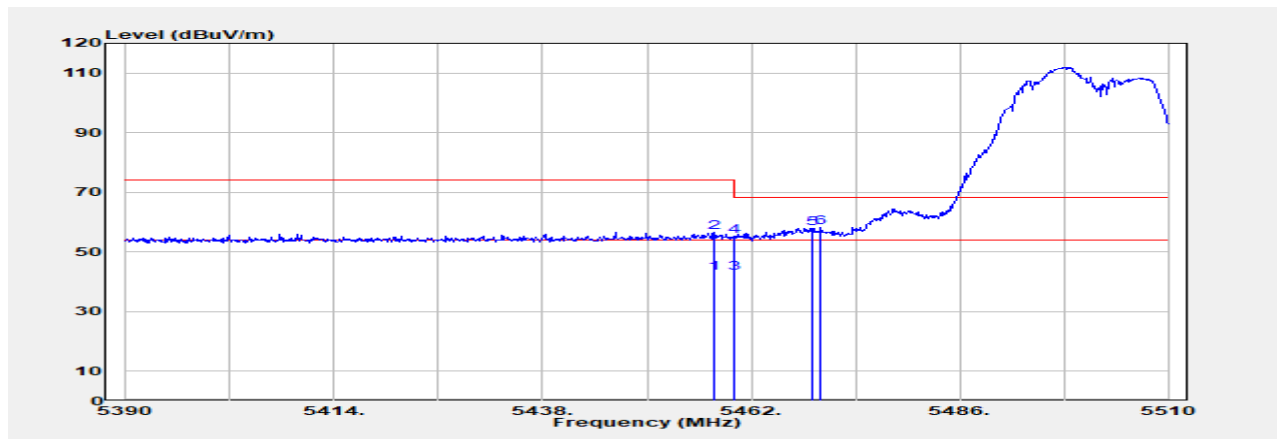
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5457.680	Average	40.46	2.63	43.09	54.00	-10.91
5457.680	Peak	53.83	2.63	56.46	74.00	-17.54
5460.000	Average	40.28	2.64	42.92	54.00	-11.08
5460.000	Peak	52.56	2.64	55.20	74.00	-18.80
5468.960	Peak	55.16	2.76	57.91	68.20	-10.29
5470.000	Peak	55.31	2.77	58.08	68.20	-10.12

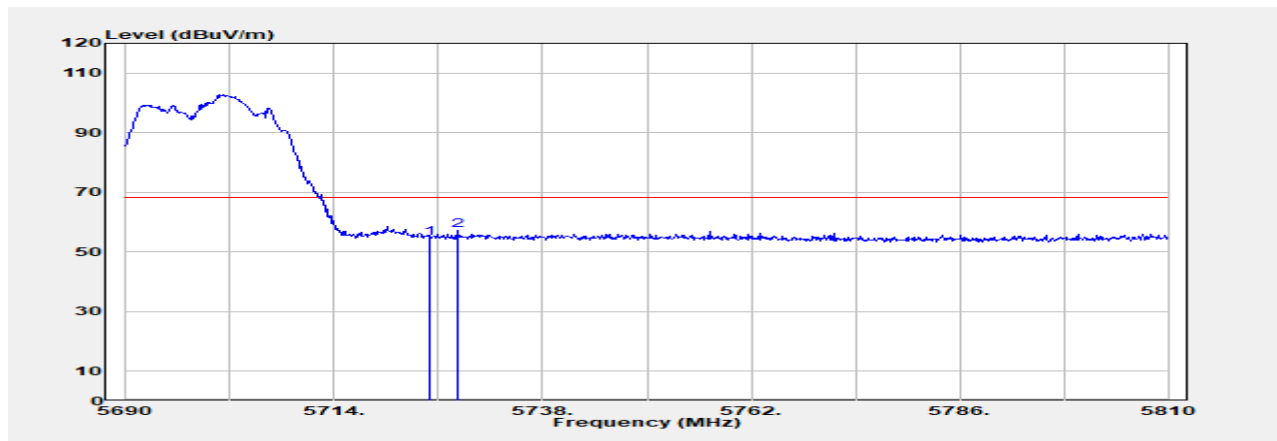
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5725.000	Peak	50.56	4.21	54.77	68.20	-13.43
5728.160	Peak	52.87	4.24	57.10	68.20	-11.10

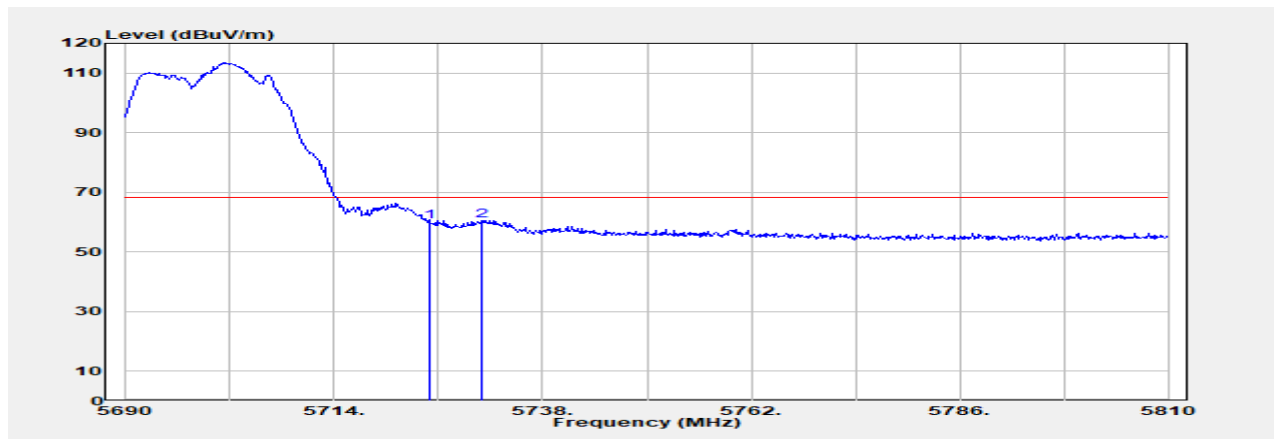
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5725.000	Peak	56.05	4.21	60.26	68.20	-7.94
5730.920	Peak	56.38	4.26	60.64	68.20	-7.56

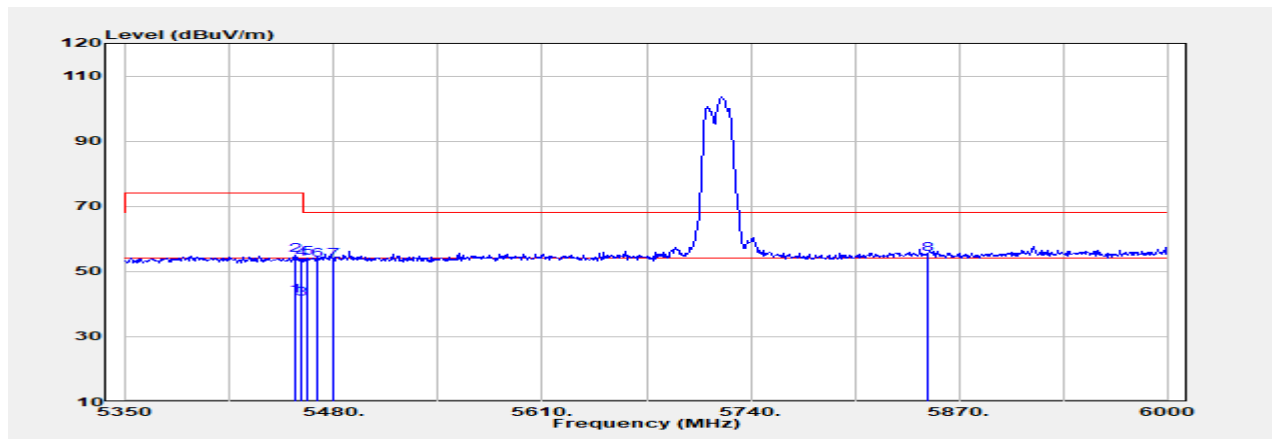
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5720 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5455.300	Average	39.96	2.62	42.58	54.00	-11.42
5455.300	Peak	52.30	2.62	54.92	74.00	-19.08
5460.000	Average	39.00	2.64	41.64	54.00	-12.36
5460.000	Peak	51.06	2.64	53.70	74.00	-20.30
5463.100	Peak	51.51	2.68	54.19	68.20	-14.01
5470.000	Peak	50.68	2.77	53.45	68.20	-14.75
5480.000	Peak	50.68	2.76	53.44	68.20	-14.76
5850.000	Peak	50.98	4.31	55.29	68.20	-12.91

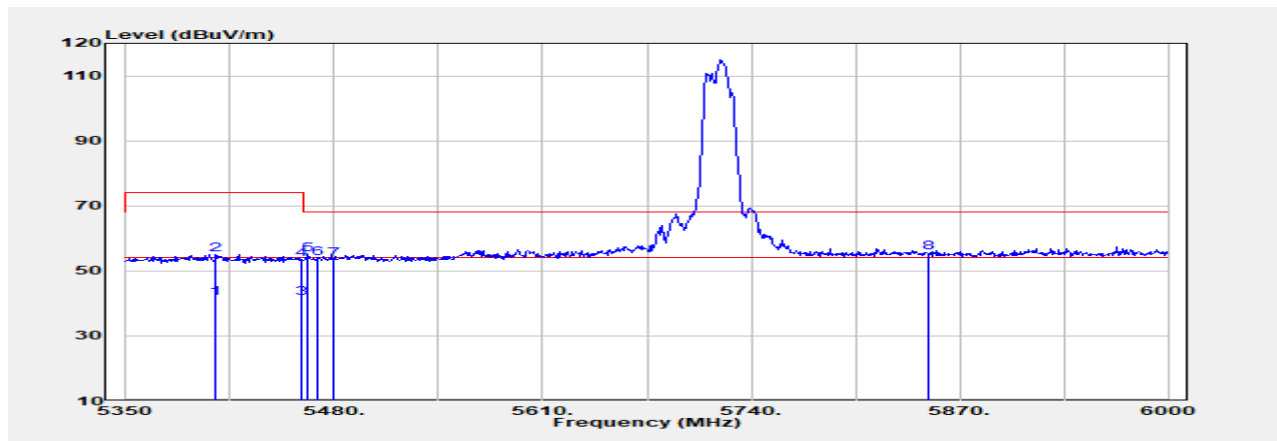
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5720 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5405.900	Average	38.95	2.57	41.52	54.00	-12.48
5405.900	Peak	52.57	2.57	55.14	74.00	-18.86
5460.000	Average	38.94	2.64	41.58	54.00	-12.42
5460.000	Peak	51.02	2.64	53.66	74.00	-20.34
5463.750	Peak	52.35	2.69	55.03	68.20	-13.17
5470.000	Peak	51.01	2.77	53.78	68.20	-14.42
5480.000	Peak	50.87	2.76	53.63	68.20	-14.57
5850.000	Peak	51.28	4.31	55.59	68.20	-12.61

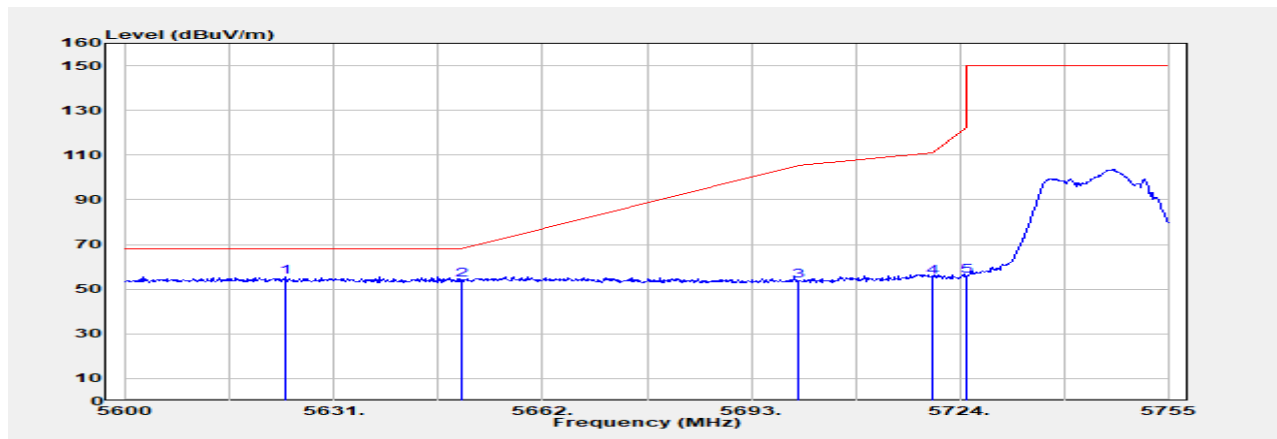
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5623.715	Peak	52.08	3.46	55.54	68.20	-12.66
5650.000	Peak	50.66	3.60	54.26	68.20	-13.94
5700.000	Peak	50.52	3.31	53.83	105.20	-51.37
5720.000	Peak	51.27	4.17	55.44	110.80	-55.36
5725.000	Peak	51.84	4.21	56.05	122.20	-66.15

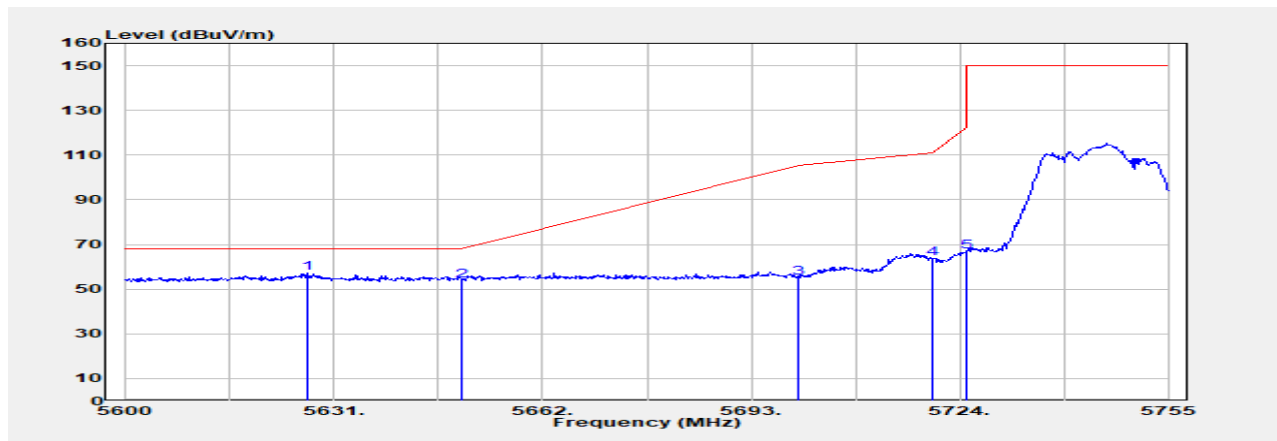
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5627.125	Peak	53.60	3.48	57.08	68.20	-11.12
5650.000	Peak	50.33	3.60	53.93	68.20	-14.27
5700.000	Peak	51.82	3.31	55.13	105.20	-50.07
5720.000	Peak	59.57	4.17	63.74	110.80	-47.06
5725.000	Peak	62.66	4.21	66.87	122.20	-55.33

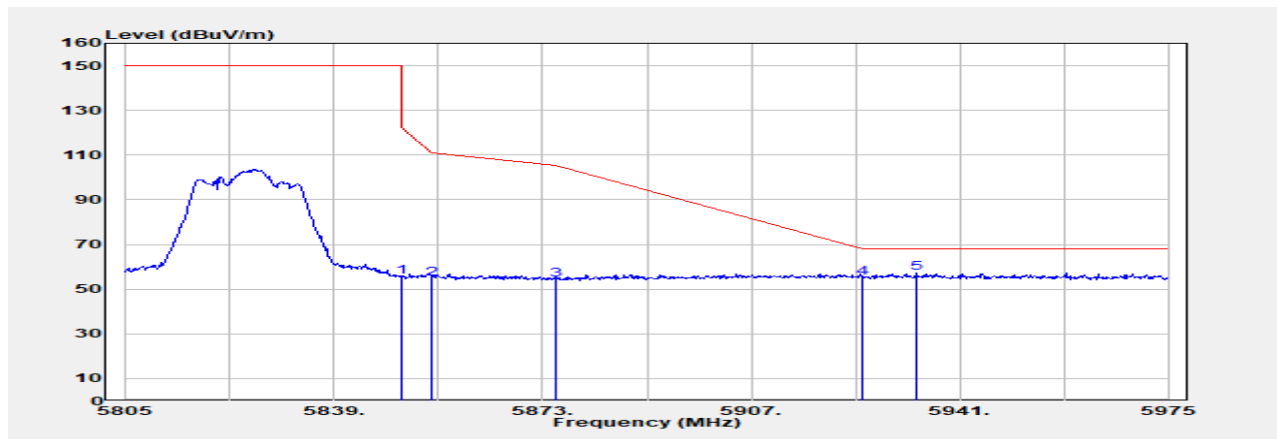
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5850.000	Peak	51.35	4.31	55.66	122.20	-66.54
5855.000	Peak	50.51	4.21	54.72	110.80	-56.08
5875.000	Peak	50.50	3.90	54.40	105.20	-50.80
5925.000	Peak	50.60	4.36	54.95	68.20	-13.25
5934.030	Peak	52.99	4.26	57.24	68.20	-10.96

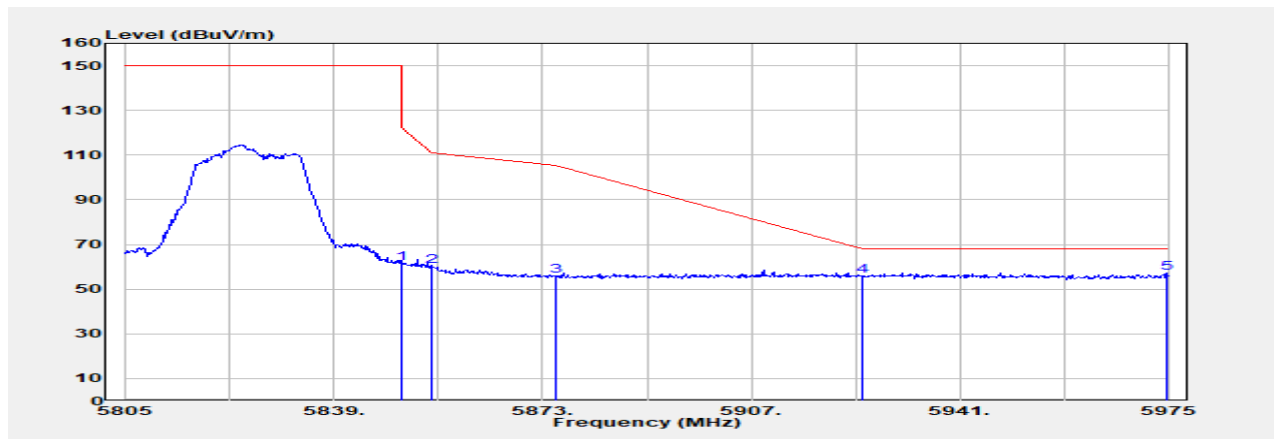
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Report Number :E2/2022/30010
 Operation Mode :802.11ac20
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5850.000	Peak	57.10	4.31	61.41	122.20	-60.79
5855.000	Peak	55.94	4.21	60.15	110.80	-50.65
5875.000	Peak	51.86	3.90	55.76	105.20	-49.44
5925.000	Peak	51.57	4.36	55.92	68.20	-12.28
5974.830	Peak	53.19	3.89	57.08	68.20	-11.12

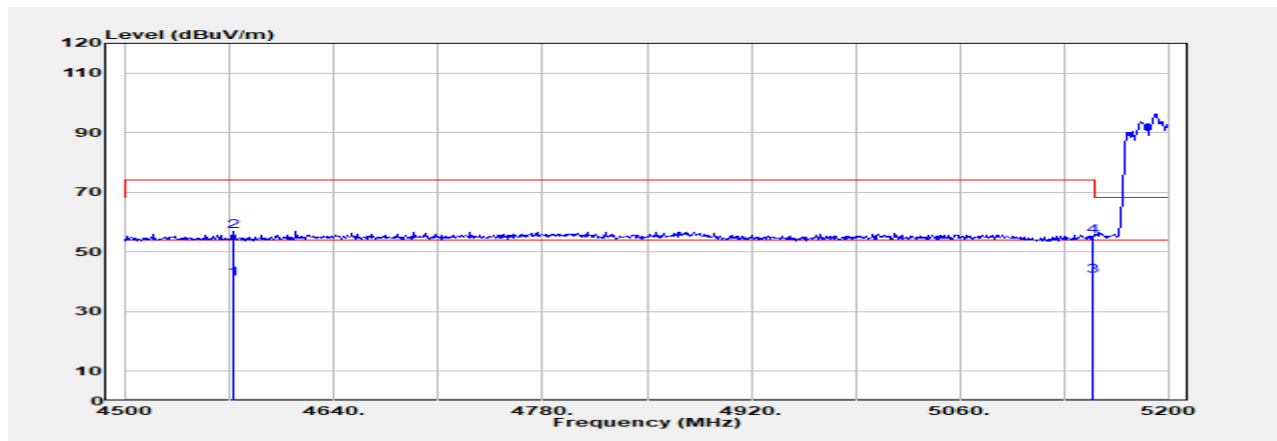
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5190 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
4572.100	Average	38.07	3.02	41.09	54.00	-12.91
4572.100	Peak	54.00	3.02	57.02	74.00	-16.98
5150.000	Average	38.77	3.03	41.80	54.00	-12.20
5150.000	Peak	52.11	3.03	55.14	74.00	-18.86

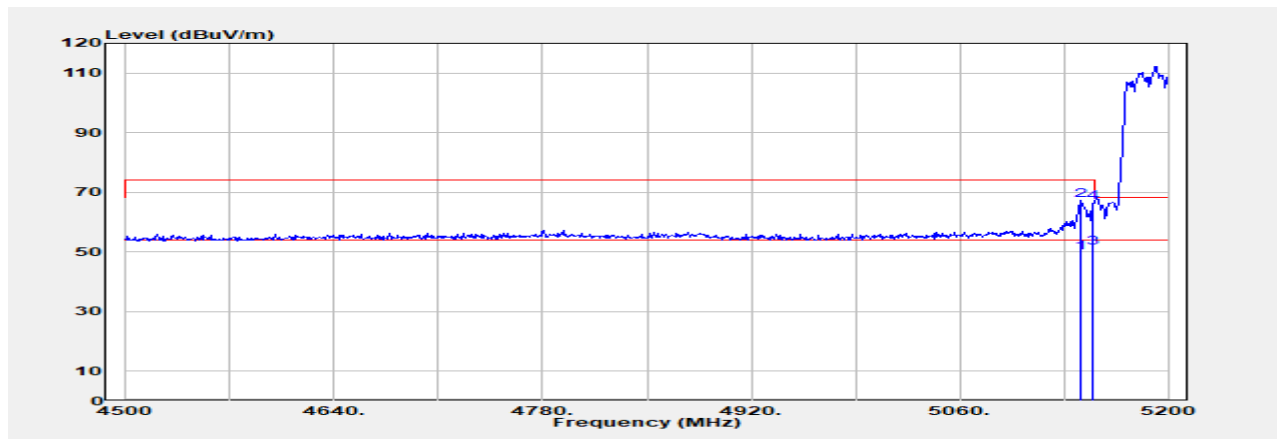
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5190 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5141.900	Average	46.78	2.84	49.61	54.00	-4.39
5141.900	Peak	64.47	2.84	67.30	74.00	-6.70
5150.000	Average	48.25	3.03	51.28	54.00	-2.72
5150.000	Peak	63.54	3.03	66.57	74.00	-7.43

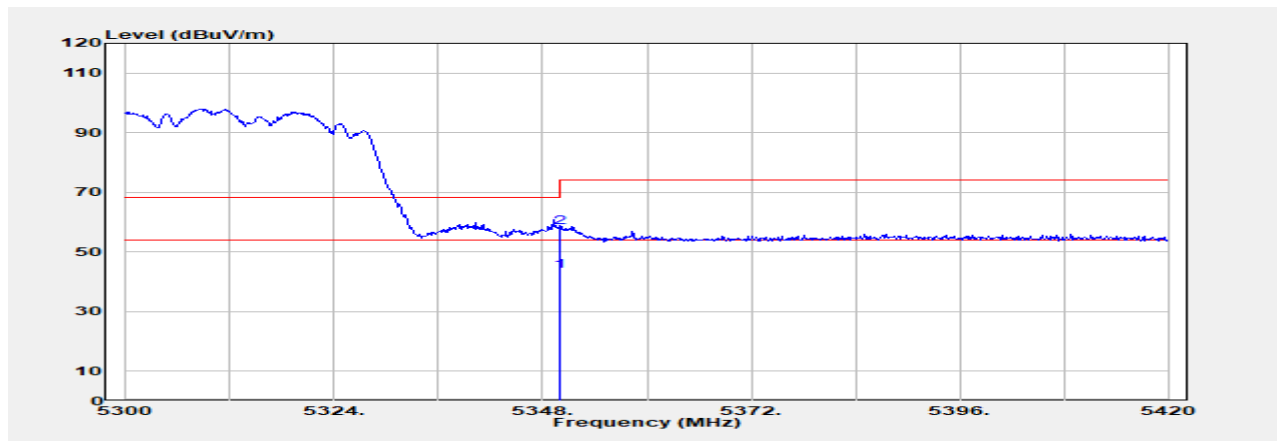
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5310 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5350.000	Average	41.48	2.21	43.69	54.00	-10.31
5350.000	Peak	56.14	2.21	58.35	74.00	-15.65

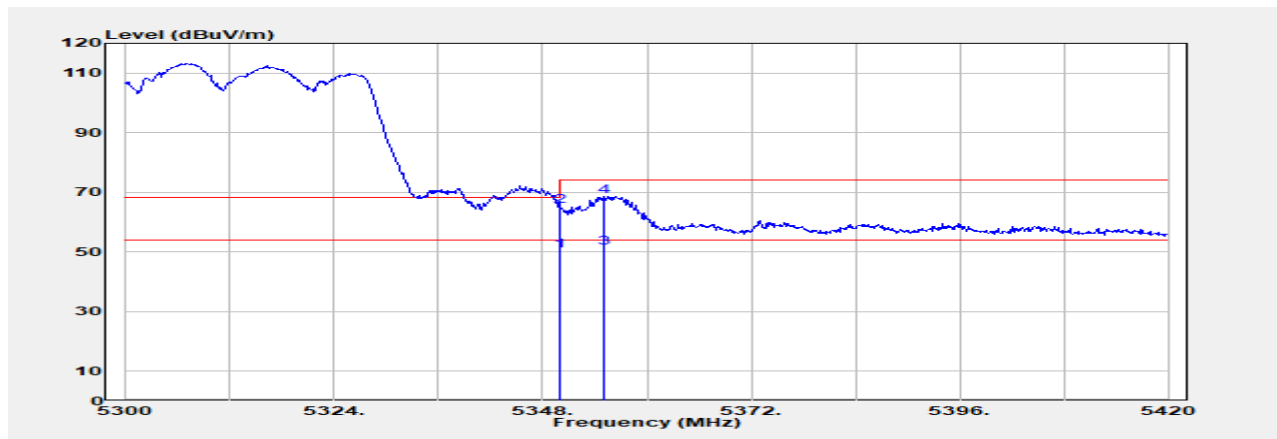
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5310 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5350.000	Average	48.30	2.21	50.51	54.00	-3.49
5350.000	Peak	63.07	2.21	65.28	74.00	-8.72
5354.960	Average	49.31	2.22	51.52	54.00	-2.48
5354.960	Peak	66.47	2.22	68.69	74.00	-5.31

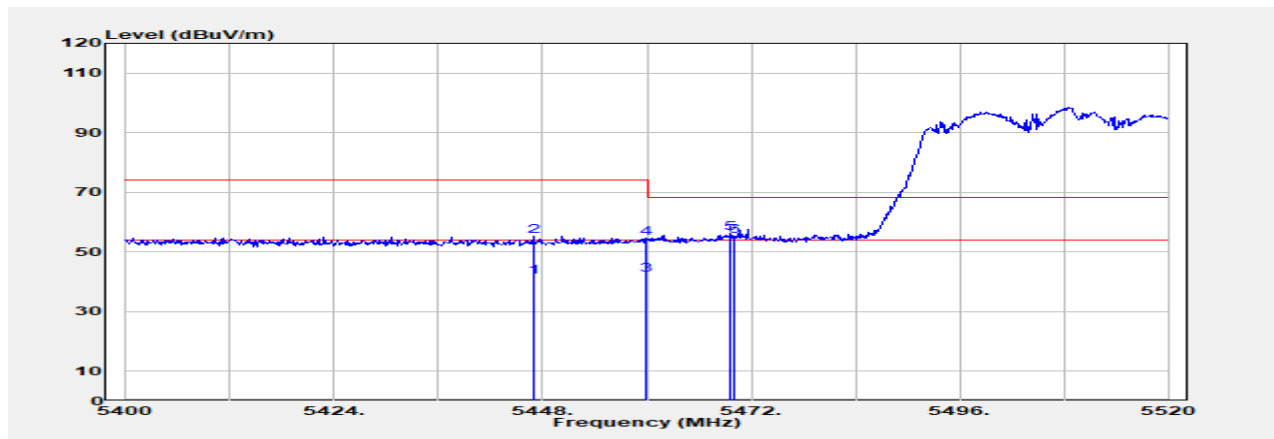
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5510 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5446.920	Average	39.24	2.51	41.75	54.00	-12.25
5446.920	Peak	52.87	2.51	55.38	74.00	-18.62
5460.000	Average	39.61	2.64	42.25	54.00	-11.75
5460.000	Peak	51.86	2.64	54.50	74.00	-19.50
5469.600	Peak	53.52	2.76	56.29	68.20	-11.91
5470.000	Peak	52.60	2.77	55.37	68.20	-12.83

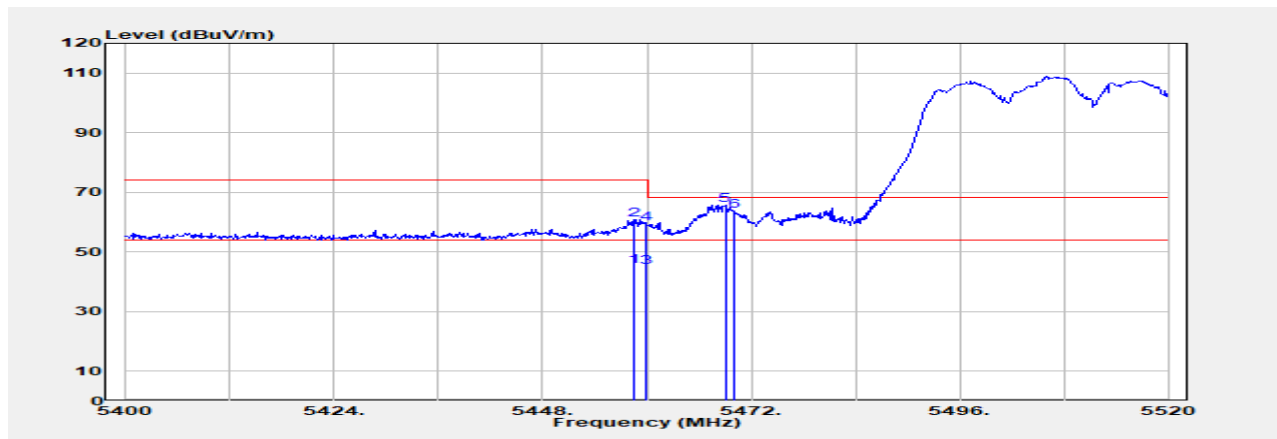
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5510 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5458.560	Average	42.42	2.63	45.05	54.00	-8.95
5458.560	Peak	58.34	2.63	60.97	74.00	-13.03
5460.000	Average	42.15	2.64	44.79	54.00	-9.21
5460.000	Peak	56.94	2.64	59.58	74.00	-14.42
5469.000	Peak	63.07	2.76	65.83	68.20	-2.37
5470.000	Peak	60.89	2.77	63.66	68.20	-4.54

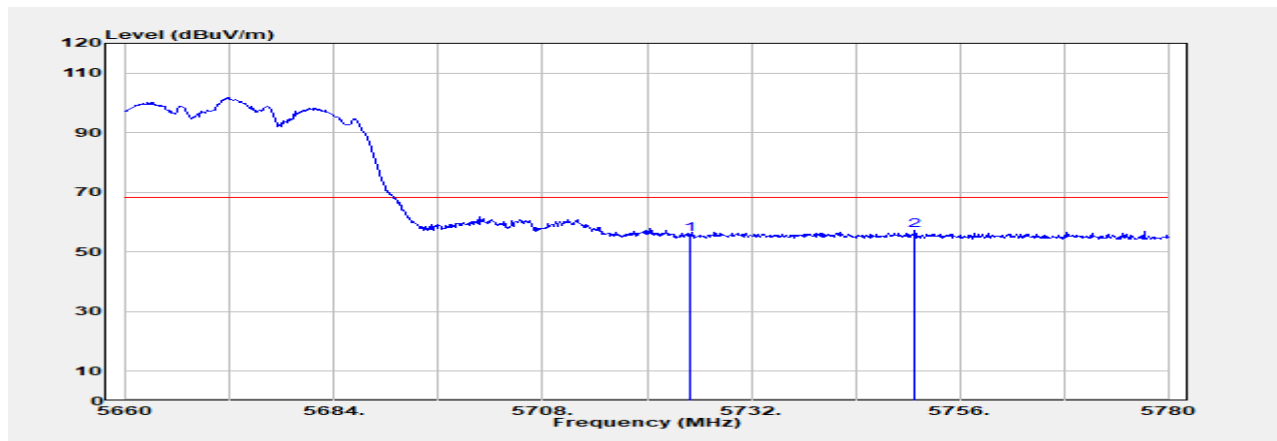
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5725.000	Peak	51.70	4.21	55.91	68.20	-12.29
5750.840	Peak	52.75	4.36	57.11	68.20	-11.09

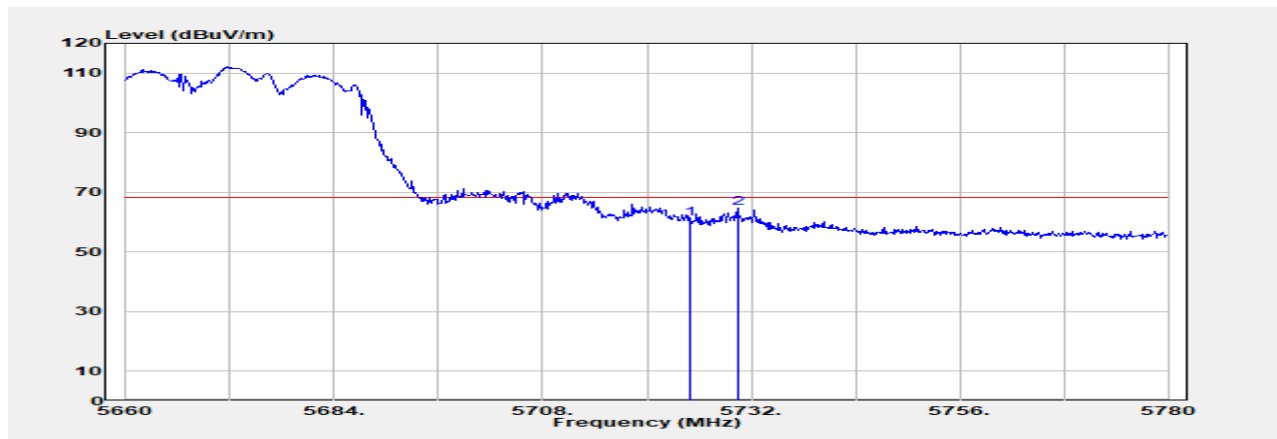
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5725.000	Peak	56.92	4.21	61.13	68.20	-7.07
5730.440	Peak	60.48	4.25	64.74	68.20	-3.46

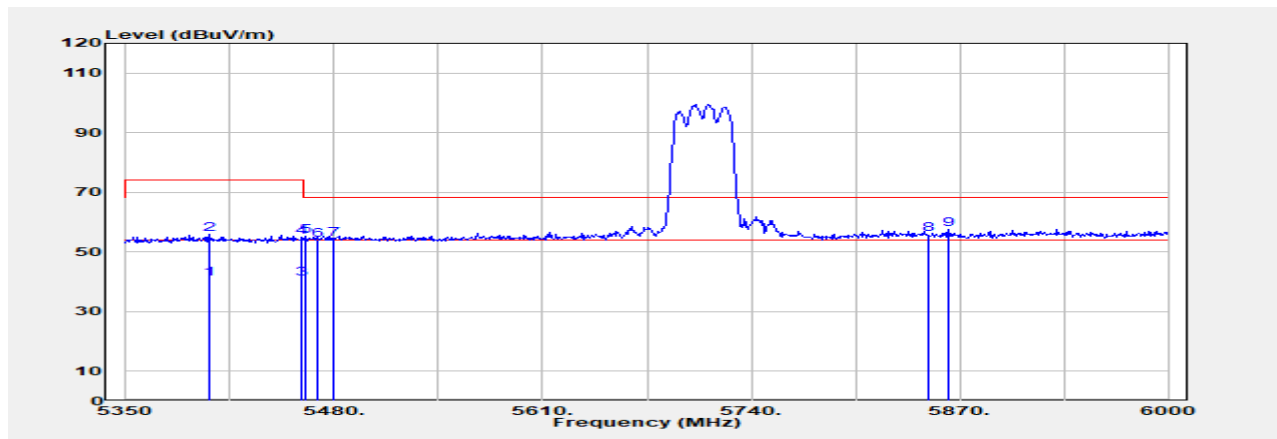
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5710 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5402.000	Average	38.35	2.55	40.90	54.00	-13.10
5402.000	Peak	53.27	2.55	55.82	74.00	-18.18
5460.000	Average	38.30	2.64	40.94	54.00	-13.06
5460.000	Peak	52.24	2.64	54.88	74.00	-19.12
5461.800	Peak	52.46	2.66	55.12	68.20	-13.08
5470.000	Peak	51.37	2.77	54.14	68.20	-14.06
5480.000	Peak	51.63	2.76	54.39	68.20	-13.81
5850.000	Peak	51.71	4.31	56.02	68.20	-12.18
5863.500	Peak	53.46	4.06	57.52	68.20	-10.68

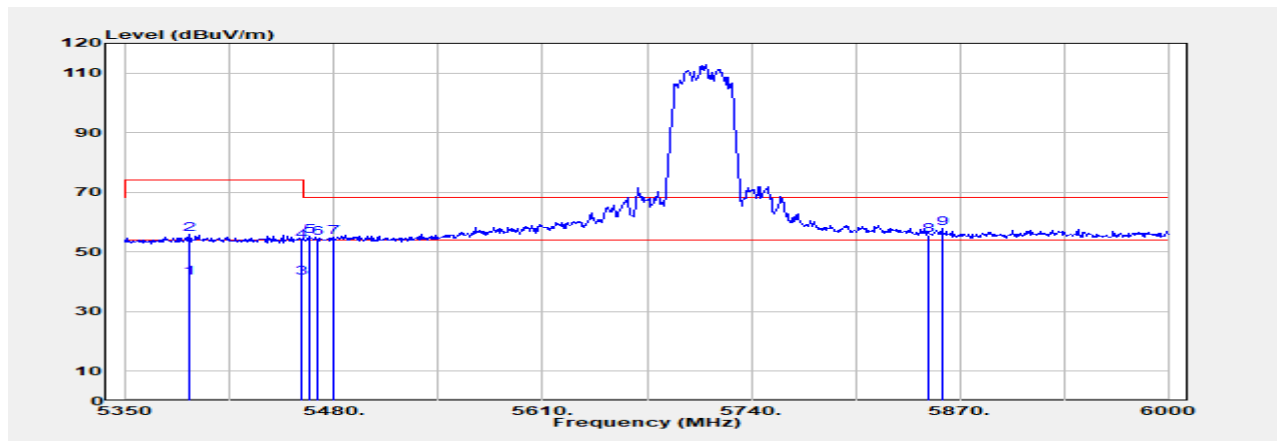
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5710 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5389.650	Average	38.61	2.61	41.22	54.00	-12.78
5389.650	Peak	53.24	2.61	55.85	74.00	-18.15
5460.000	Average	38.51	2.64	41.15	54.00	-12.85
5460.000	Peak	51.02	2.64	53.66	74.00	-20.34
5464.400	Peak	52.62	2.70	55.32	68.20	-12.88
5470.000	Peak	51.88	2.77	54.65	68.20	-13.55
5480.000	Peak	52.08	2.76	54.84	68.20	-13.36
5850.000	Peak	51.42	4.31	55.73	68.20	-12.47
5858.950	Peak	53.90	4.13	58.03	68.20	-10.17

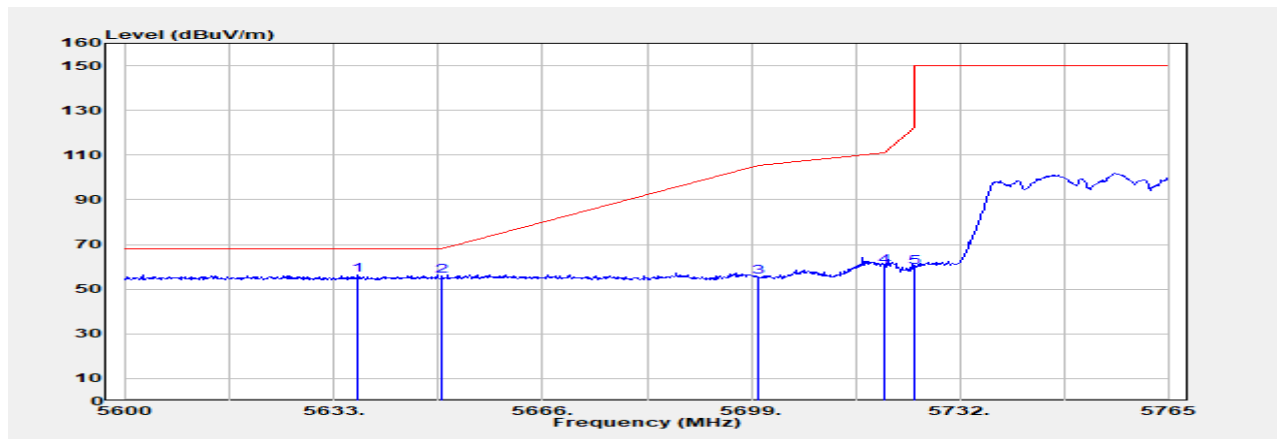
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5636.795	Peak	53.05	3.44	56.49	68.20	-11.71
5650.000	Peak	52.45	3.60	56.05	68.20	-12.15
5700.000	Peak	52.16	3.31	55.47	105.20	-49.73
5720.000	Peak	56.12	4.17	60.29	110.80	-50.51
5725.000	Peak	55.51	4.21	59.72	122.20	-62.48

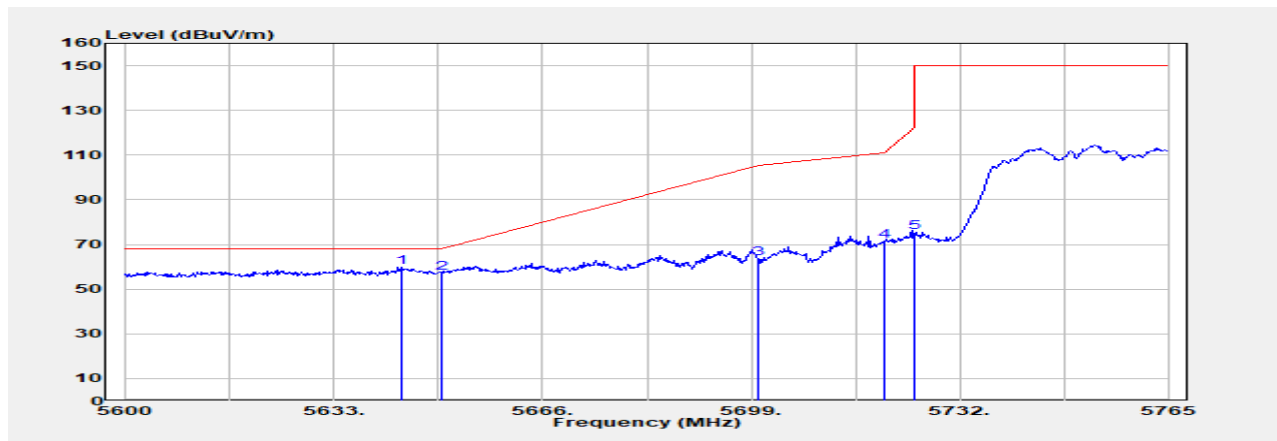
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5643.725	Peak	56.57	3.48	60.05	68.20	-8.15
5650.000	Peak	53.45	3.60	57.05	68.20	-11.15
5700.000	Peak	60.44	3.31	63.75	105.20	-41.45
5720.000	Peak	67.17	4.17	71.34	110.80	-39.46
5725.000	Peak	71.26	4.21	75.47	122.20	-46.73

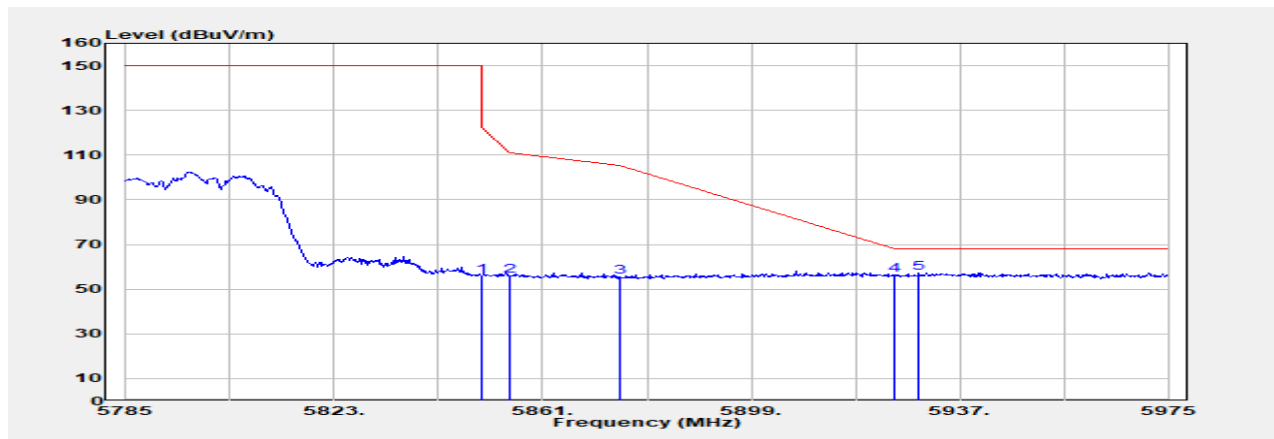
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5795 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5850.000	Peak	51.82	4.31	56.13	122.20	-66.07
5855.000	Peak	51.52	4.21	55.73	110.80	-55.07
5875.000	Peak	51.61	3.90	55.51	105.20	-49.69
5925.000	Peak	51.90	4.36	56.25	68.20	-11.95
5929.590	Peak	53.03	4.34	57.37	68.20	-10.83

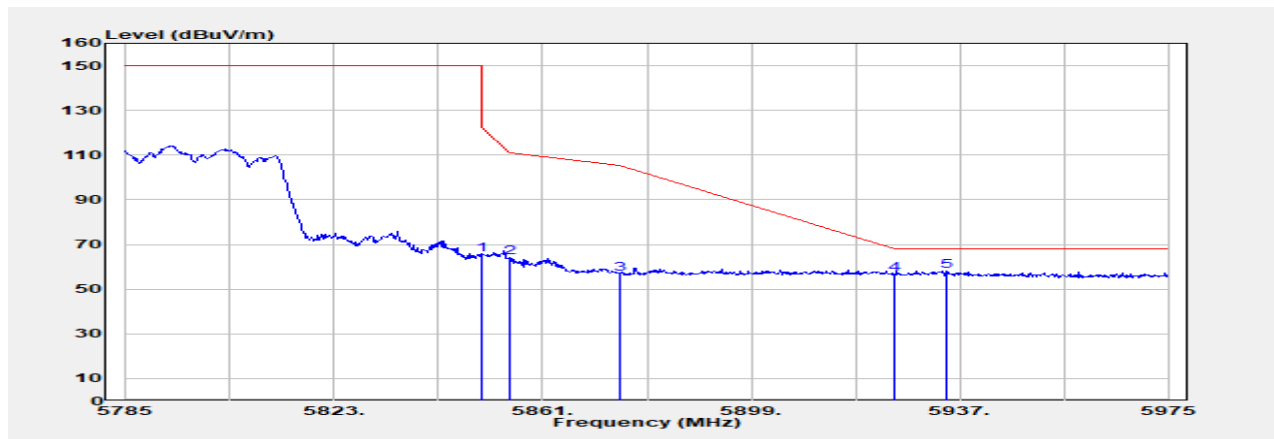
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Report Number :E2/2022/30010
 Operation Mode :802.11ac40
 Test Frequency :5795 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5850.000	Peak	61.05	4.31	65.36	122.20	-56.84
5855.000	Peak	59.89	4.21	64.10	110.80	-46.70
5875.000	Peak	53.03	3.90	56.93	105.20	-48.27
5925.000	Peak	52.28	4.36	56.63	68.20	-11.57
5934.530	Peak	53.96	4.25	58.21	68.20	-9.99

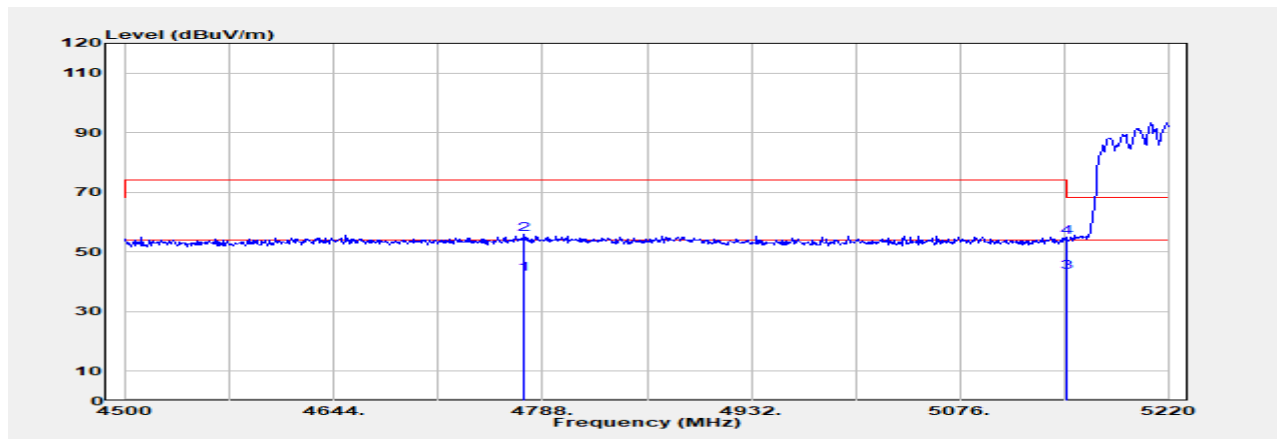
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Report Number :E2/2022/30010
 Operation Mode :802.11ac80
 Test Frequency :5210 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
4775.040	Average	39.67	2.94	42.61	54.00	-11.39
4775.040	Peak	53.03	2.94	55.97	74.00	-18.03
5150.000	Average	40.18	3.03	43.21	54.00	-10.79
5150.000	Peak	51.81	3.03	54.84	74.00	-19.16

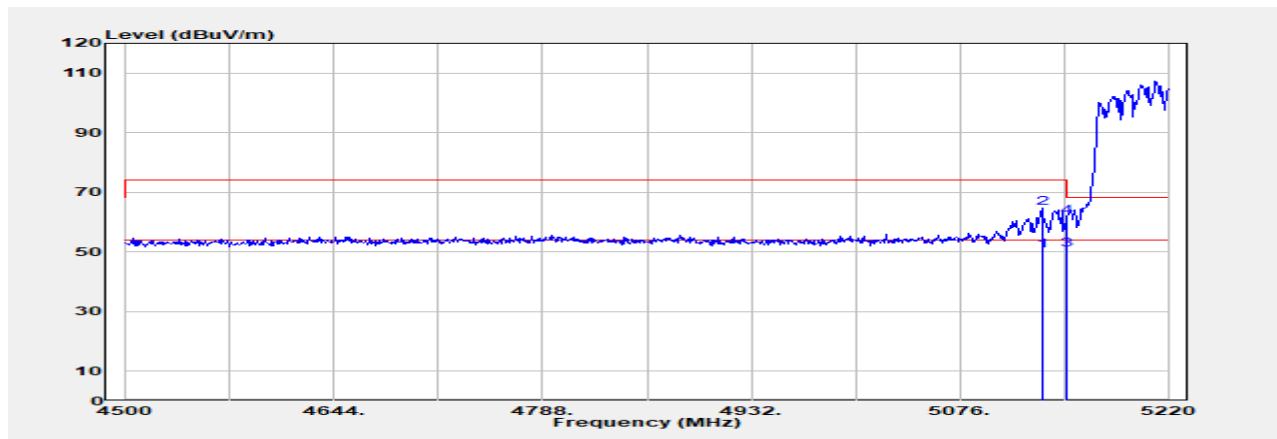
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Report Number :E2/2022/30010
 Operation Mode :802.11ac80
 Test Frequency :5210 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5132.880	Average	47.57	2.72	50.28	54.00	-3.72
5132.880	Peak	61.97	2.72	64.69	74.00	-9.31
5150.000	Average	47.74	3.03	50.77	54.00	-3.23
5150.000	Peak	58.72	3.03	61.75	74.00	-12.25

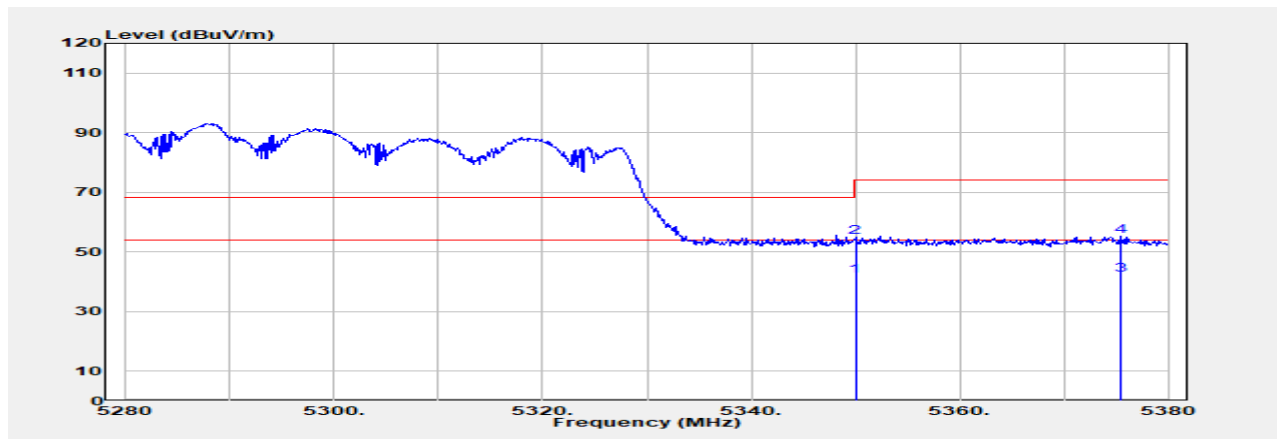
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Report Number :E2/2022/30010
 Operation Mode :802.11ac80
 Test Frequency :5290 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5350.000	Average	39.80	2.21	42.01	54.00	-11.99
5350.000	Peak	52.84	2.21	55.05	74.00	-18.95
5375.500	Average	39.90	2.33	42.23	54.00	-11.77
5375.500	Peak	53.07	2.33	55.40	74.00	-18.60

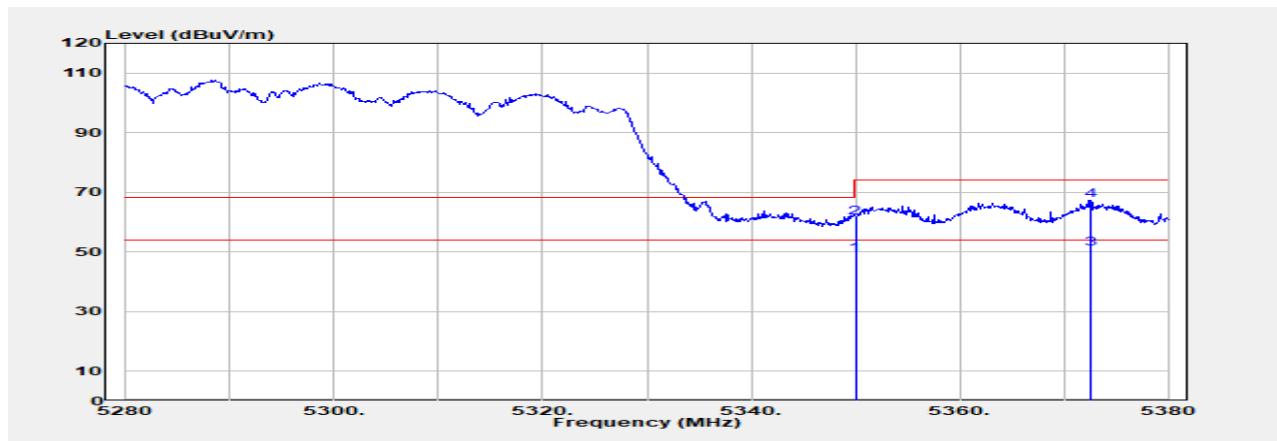
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Report Number :E2/2022/30010
 Operation Mode :802.11ac80
 Test Frequency :5290 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-17
 Temp./Humi. :21.7/69
 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
5350.000	Average	46.91	2.21	49.12	54.00	-4.88
5350.000	Peak	59.21	2.21	61.42	74.00	-12.58
5372.600	Average	48.88	2.32	51.20	54.00	-2.80
5372.600	Peak	65.13	2.32	67.45	74.00	-6.55

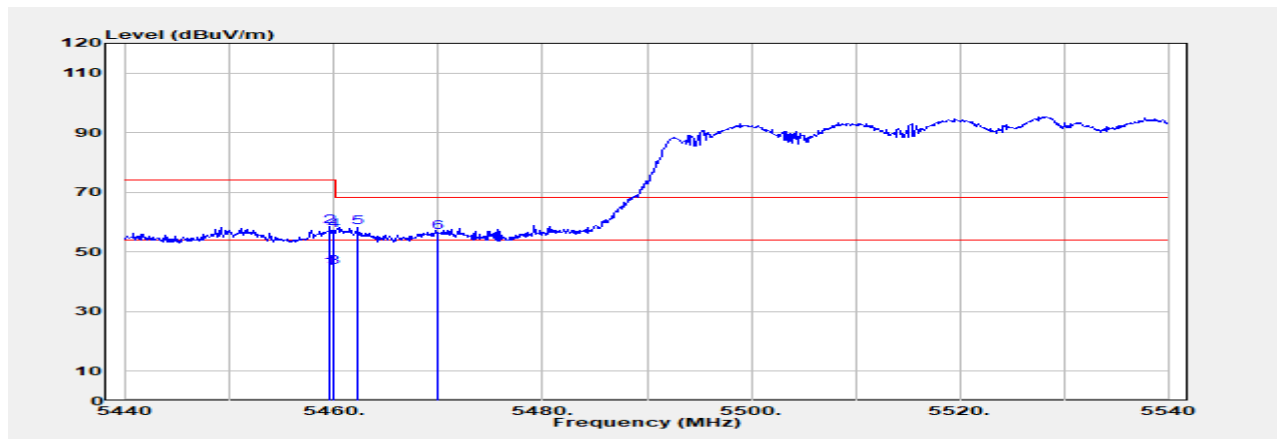
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Report Number :E2/2022/30010
 Operation Mode :802.11ac80
 Test Frequency :5530 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5459.600	Average	41.97	2.64	44.61	54.00	-9.39
5459.600	Peak	55.88	2.64	58.52	74.00	-15.48
5460.000	Average	42.15	2.64	44.79	54.00	-9.21
5460.000	Peak	54.71	2.64	57.35	74.00	-16.65
5462.300	Peak	55.58	2.67	58.25	68.20	-9.95
5470.000	Peak	53.87	2.77	56.64	68.20	-11.56

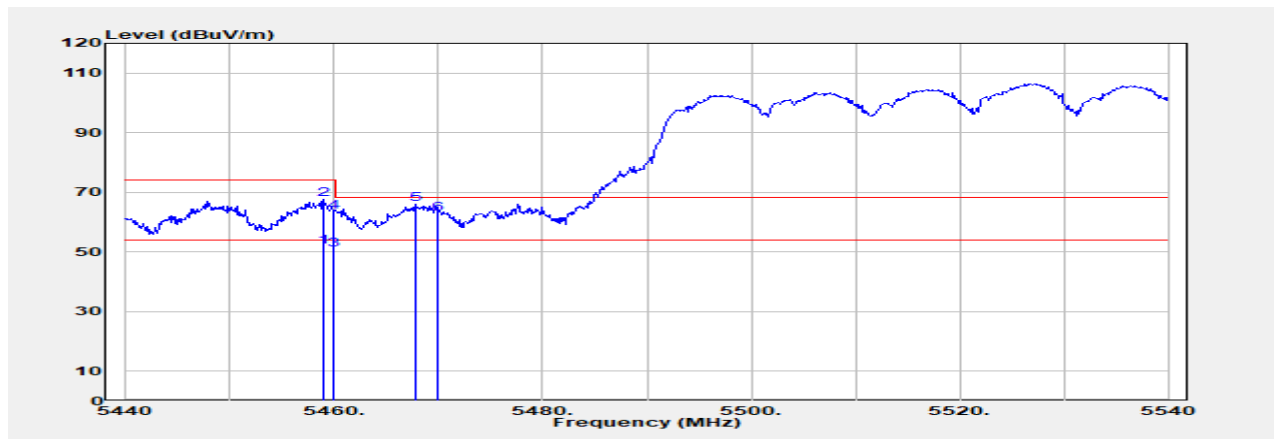
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Report Number :E2/2022/30010
 Operation Mode :802.11ac80
 Test Frequency :5530 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5458.900	Average	49.07	2.64	51.70	54.00	-2.30
5458.900	Peak	65.12	2.64	67.76	74.00	-6.24
5460.000	Average	48.06	2.64	50.70	54.00	-3.30
5460.000	Peak	60.69	2.64	63.33	74.00	-10.67
5467.800	Peak	63.43	2.74	66.17	68.20	-2.03
5470.000	Peak	59.98	2.77	62.75	68.20	-5.45

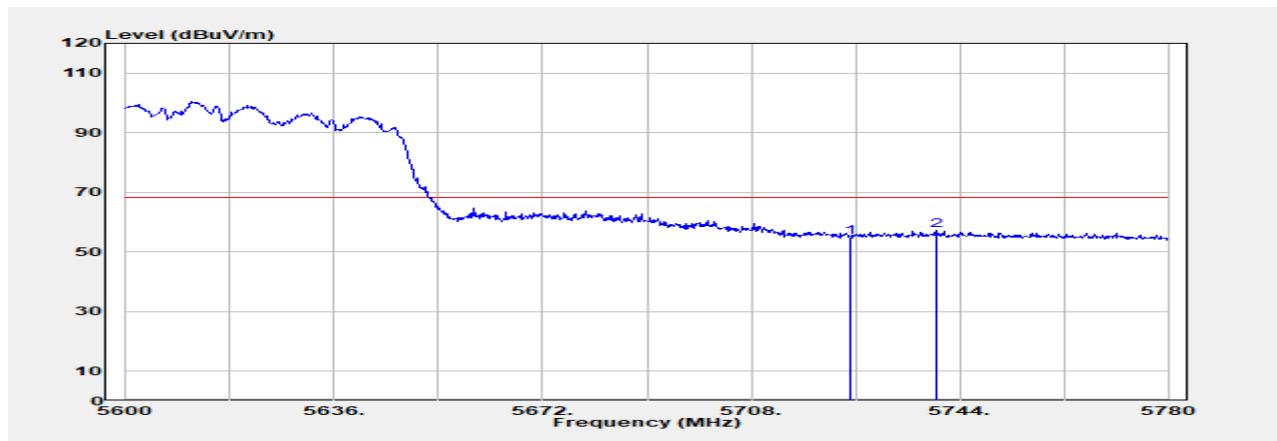
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Report Number :E2/2022/30010
 Operation Mode :802.11ac80
 Test Frequency :5610 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5725.000	Peak	50.77	4.21	54.98	68.20	-13.22
5739.860	Peak	52.77	4.34	57.11	68.20	-11.09

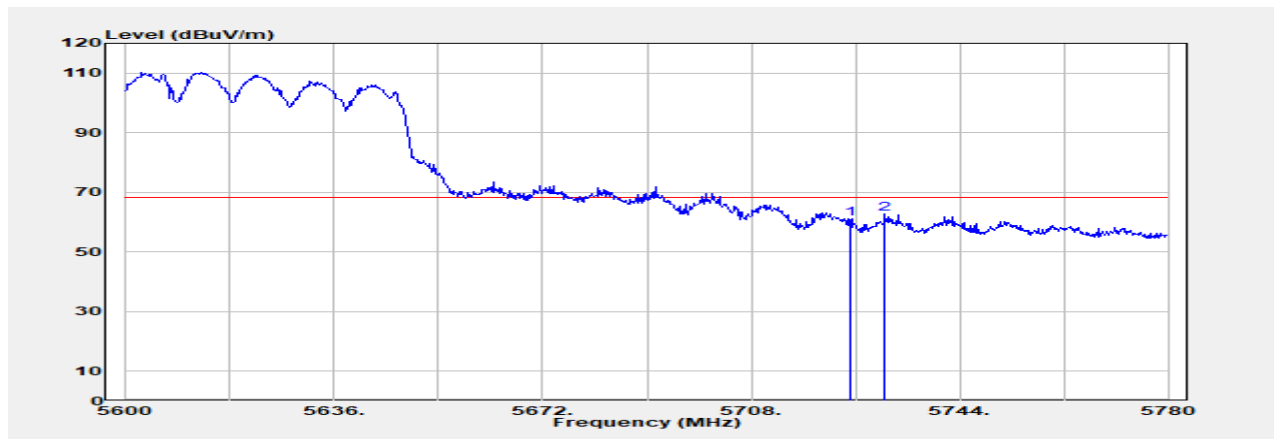
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 Operation Mode :802.11ac80
 Test Frequency :5610 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-13
 Temp./Humi. :25.2/58
 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
5725.000	Peak	56.83	4.21	61.04	68.20	-7.16
5731.040	Peak	58.60	4.26	62.86	68.20	-5.34

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