

ELECTROMAGNETIC EMISSIONS COMPLIANCE CLASS II & IV PERMISSIVE CHANGE REPORT



Applicant: MediaTek Inc.
No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City 30078 Taiwan

Product Name: 2TX 11ax (WiFi6)+BLE Combo Card

Brand Name: MediaTek

Model No.: MT7921

Model Difference: N/A

Report Number: E2/2021/A0065

FCC ID RAS-MT7921

Issue Date: Jan.10,2022

Date of Test: Oct.13,2021~Oct.26,2021

Date of EUT Received: Oct.13,2021

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
E2/2021/A0065	Rev.00	Original.	Jan.10,2022	Viola Su

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1 GENERAL INFORMATION

1.1 Product Description of host

Product Name:	Portable Computer
Brand Name:	DELL
Model No.:	P112F
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	7196294700020
Power Supply:	15Vdc

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 - 54 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 ax_20MHz: 8.6 - 286.8 Mbps
	802.11 ax_40MHz: 17.2 - 573.6 Mbps
	802.11 ax_80MHz: 36 - 1201 Mbps

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1.3 Antenna Designation

TOP/BASE Antenna	Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
TOP	PIFA	AWAN	Main	AYP6Y-100004 (DC33002KF2L)	5150~5250	0.48	
					5250~5350	0.98	
					5470~5725	1.44	
					5725~5850	1.44	
			Aux	AYP6Y-100192 (DC33002KF1L)	5150~5250	-4.69	
					5250~5350	-4.10	
					5470~5725	-4.14	
					5725~5850	-4.14	
TOP	PIFA	Hong Bo Co., Ltd.	Main	260-24375 (DC33002KG2L)	5150~5250	-1.54	
					5250~5350	-1.78	
					5470~5725	-1.41	
					5725~5850	0.12	
			Aux	260-24374 (DC33002KG1L)	5150~5250	-2.49	
					5250~5350	-2.49	
					5470~5725	-1.29	
					5725~5850	-1.50	
TOP	PIFA	SPEEDWIRE	Main	F-0G-FH-6134-003-00 (DC33002KH2L)	5150~5250	0.87	
					5250~5350	1.8	
					5470~5725	1.53	
					5725~5850	2.55	
			Aux	F-0G-FH-6134-002-00 (DC33002KH1L)	5150~5250	-0.46	
					5250~5350	0.83	
					5470~5725	0.44	
					5725~5850	1.02	
BASE	PIFA	AWAN	Main	AYP6Y-100258 (DC33002N00L)	5150~5250	2.95	V
					5250~5350	2.36	
					5470~5725	2.75	
					5725~5850	2.63	
			Aux	AYP6Y-100259 (DC33002N01L)	5150~5250	2.53	
					5250~5350	2.57	V
					5470~5725	2.59	
					5725~5850	2.84	

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BASE	PIFA	Hong Bo Co., Ltd.	Main	260-24388 (DC33002N20L)	5150~5250	2.62	
					5250~5350	2.53	
					5470~5725	2.90	V
					5725~5850	2.93	V
			Aux	260-24389 (DC33002N21L)	5150~5250	2.44	
					5250~5350	2.44	
					5470~5725	2.49	
					5725~5850	1.90	

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/ ac_VHT/ ax_HE 20M	5180~5240	4	17.96 dBm	OFDM
	5260~5320	4	17.48 dBm	OFDM
	5500~5720	12	15.94 dBm	OFDMA
	5745~5825	5	21.48 dBm	OFDM
ac_VHT/ ax_HE 40M	5190~5230	2	17.97 dBm	OFDMA
	5270~5310	2	17.48 dBm	OFDM
	5510~5710	6	15.98 dBm	OFDM
	5755~5795	2	20.67 dBm	OFDMA
ac_VHT/ ax_HE 80M	5210	1	17.04 dBm	OFDMA
	5290	1	17.38 dBm	OFDMA
	5530~5690	3	15.93 dBm	OFDM
	5775	1	19.41 dBm	OFDMA

Note:

As per guidance in presentation 2018-04-10-03 IC Certification updates of April 2018 TCB workshop, Client (Slave mode) devices without active scanning function, but with the capability of operating in 5600-5650 MHz solely under the control of a certified master device meeting the requirement of RSS-247, are allowed in Canada.

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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	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

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

1.7 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 Configuration of Tested System

Fig. 2-1 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

4.1 802.11a/n/ac/ax operated in U-NII Bands

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		160 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
100	5500	102	5510	106	5530	114	5570
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 5745 MHz ~5850 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
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 gevin 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 n	<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 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 802.11 ax 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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4.2.1 RADIATED EMISSION TEST:

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	36,44,48	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_HT20	5180~5240	36 to 48	36,44,48	OFDM	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			
802.11ac_HT40	5190~5230	38 to 46	38,46	OFDM	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			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106,122,138			
	5775	155	155			

RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	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	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 242/61,242/62	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 484/65,484/66	MCS0	MIMO
	5290	58	58				
	5530~5610	106 to 138	106,122,138				
	5775	155	155				

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac/ax WLAN Transmitter for channel Low, Mid and High, the worst case NB Plane position was reported.

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4.2.2 ANTENNA PORT CONDUCTED MEASUREMENT:

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_HT20	5180~5240	36 to 48	36,44,48	OFDM	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			
802.11ac_HT40	5190~5230	38 to 46	38,46	OFDM	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			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106,122,138			
	5775	155	155			

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	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	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 242/61,242/62	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 484/65,484/66	MCS0	MIMO
	5290	58	58				
	5530~5610	106 to 138	106,122,138				
	5775	155	155				

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
The Maximum Output Power Measurement	+/- 1 dB
Frequency Stability	+/- 1.53 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.64 dB	9kHz~30MHz
	+/-	4.93 dB	30MHz - 1000MHz
	+/-	4.81 dB	1GHz - 18GHz
	+/-	4.52 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.64 dB	9kHz~30MHz
	+/-	4.45 dB	30MHz - 1000MHz
	+/-	4.81 dB	1GHz - 18GHz
	+/-	4.52 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

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	1 Watt(30dBm)
		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)
If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.			

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.

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

The antenna gain is grater than 6 dBi, therefore the power limit autenuation has been applied in the test results.

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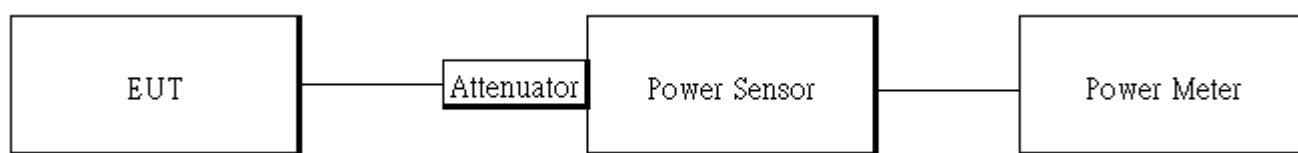
6.2 Measurement Procedure

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 $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

6.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/01/2021	05/31/2022
Power Meter	Anritsu	ML2496A	1512003	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339378	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339379	07/27/2021	07/26/2022
Attenuator	Marvelous	MVE2213-10	RF06	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF18	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF23	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF154	11/19/2020	11/18/2021

6.4 Test Set-up



6.5 Measurement Result

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6.5.1 Conducted output power (FCC)

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	11	15.19	14.41	17.96	62.517	23.98	PASS
44	5220	6	10.5	15.22	14.33	17.94	62.230	23.98	PASS
48	5240	6	10.5	15.18	14.36	17.93	62.087	23.98	PASS
52	5260	6	10.5	14.68	13.91	17.46	55.719	23.98	PASS
60	5300	6	10	14.58	13.98	17.44	55.463	23.98	PASS
64	5320	6	10	14.5	14.07	17.44	55.463	23.98	PASS
100	5500	6	8.5	12.67	12.55	15.76	37.670	23.98	PASS
116	5580	6	8.5	12.64	12.46	15.70	37.154	23.98	PASS
140	5700	6	8.5	12.69	12.5	15.74	37.497	23.98	PASS
144	5720(U-NII 2C)	6	8.5	10.95	11.04	14.14	25.916	23.24	PASS
144	5720 (U-NII 3)	6	8.5	7.94	7.09	10.67	11.680	30	PASS
149	5745	6	14.5	18.34	18.16	21.40	138.038	30	PASS
157	5785	6	14.5	18.36	18.21	21.43	138.995	30	PASS
165	5825	6	14	18.35	18.16	21.40	138.038	30	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	12	14.64	14.52	17.86	61.094	23.98	PASS
44	5220	MCS0	12	14.67	14.4	17.82	60.534	23.98	PASS
48	5240	MCS0	12	14.63	14.48	17.84	60.814	23.98	PASS
52	5260	MCS0	11.5	14.28	13.93	17.39	54.828	23.98	PASS
60	5300	MCS0	11.5	14.28	13.93	17.39	54.828	23.98	PASS
64	5320	MCS0	11.5	14.26	14.01	17.42	55.208	23.98	PASS
100	5500	MCS0	10	12.57	12.43	15.78	37.844	23.98	PASS
116	5580	MCS0	10	12.44	12.31	15.66	36.813	23.98	PASS
140	5700	MCS0	10	12.67	12.38	15.81	38.107	23.98	PASS
144	5720(U-NII 2C)	MCS0	10	11.12	10.96	14.32	27.045	23.31	PASS
144	5720 (U-NII 3)	MCS0	10	7.23	7.16	10.48	11.157	30	PASS
149	5745	MCS0	16	18.1	17.76	21.22	132.434	30	PASS
157	5785	MCS0	16	18.16	18.04	21.38	137.404	30	PASS
165	5825	MCS0	16	18.19	18.02	21.39	137.721	30	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	13	14.49	14.06	17.80	60.256	23.98	PASS
46	5230	MCS0	13	14.51	14.13	17.85	60.954	23.98	PASS
54	5270	MCS0	12.5	13.95	13.61	17.31	53.827	23.98	PASS
62	5310	MCS0	12.5	14.01	13.82	17.44	55.463	23.98	PASS
102	5510	MCS0	11	12.32	12.18	15.77	37.757	23.98	PASS
110	5550	MCS0	11	12.36	12.24	15.82	38.194	23.98	PASS
134	5670	MCS0	11	12.38	12.17	15.80	38.019	23.98	PASS
142	5710(U-NII 2C)	MCS0	8	8.80	8.53	12.19	16.560	23.98	PASS
142	5710 (U-NII 3)	MCS0	8	0.24	-0.02	3.63	2.309	30	PASS
151	5755	MCS0	16	16.93	16.76	20.37	108.893	30	PASS
159	5795	MCS0	16	16.92	16.65	20.31	107.399	30	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	13	13.37	12.22	16.76	47.424	23.98	PASS
58	5290	MCS0	13.5	13.7	12.59	17.10	51.286	23.98	PASS
106	5530	MCS0	12	11.87	11.72	15.72	37.325	23.98	PASS
122	5610	MCS0	12.5	12.05	11.97	15.93	39.174	23.98	PASS
138	5690(U-NII 2C)	MCS0	7	6.87	5.98	10.37	10.889	23.98	PASS
138	5690 (U-NII 3)	MCS0	7	-5.10	-5.96	-1.59	0.693	30	PASS
155	5775	MCS0	16	15.57	14.95	19.19	82.985	30	PASS

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	12	14.71	14.48	17.95	62.373	23.98	PASS
44	5220	MCS0	full	12	14.62	14.53	17.93	62.087	23.98	PASS
48	5240	MCS0	full	12	14.71	14.45	17.94	62.230	23.98	PASS
52	5260	MCS0	full	11.5	14.11	13.9	17.36	54.450	23.98	PASS
60	5300	MCS0	full	11.5	14.26	13.98	17.48	55.976	23.98	PASS
64	5320	MCS0	full	11.5	14.26	13.94	17.46	55.719	23.98	PASS
100	5500	MCS0	full	10	12.61	12.55	15.94	39.264	23.98	PASS
116	5580	MCS0	full	10	12.49	12.39	15.80	38.019	23.98	PASS
140	5700	MCS0	full	10	12.67	12.43	15.91	38.994	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	10	11.01	10.85	14.29	26.862	23.09	PASS
144	5720 (U-NII 3)	MCS0	full	10	6.98	6.66	10.18	10.434	30	PASS
149	5745	MCS0	full	16	18.21	17.99	21.46	139.959	30	PASS
157	5785	MCS0	full	16	18.1	18	21.41	138.357	30	PASS
165	5825	MCS0	full	15.5	18.14	17.96	21.41	138.357	30	PASS

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	13	14.6	14.2	17.97	62.661	23.98	PASS
46	5230	MCS0	full	12.5	14.45	14.32	17.96	62.517	23.98	PASS
54	5270	MCS0	full	12.5	14.2	13.53	17.45	55.590	23.98	PASS
62	5310	MCS0	full	12.5	14.16	13.65	17.48	55.976	23.98	PASS
102	5510	MCS0	full	11	12.44	12.31	15.95	39.355	23.98	PASS
110	5550	MCS0	full	11	12.45	12.33	15.96	39.355	23.98	PASS
134	5670	MCS0	full	11	12.39	12.26	15.90	38.905	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	9	9.27	9.20	12.80	19.071	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	9	0.51	0.42	4.04	2.533	30	PASS
151	5755	MCS0	full	16	17.14	17.05	20.67	116.681	30	PASS
159	5795	MCS0	full	16	17.15	16.98	20.64	115.878	30	PASS

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	13	13.58	12.73	17.04	50.582	23.98	PASS
58	5290	MCS0	full	13.5	13.88	13.13	17.38	54.702	23.98	PASS
106	5530	MCS0	full	12	12.03	11.86	15.81	38.107	23.98	PASS
122	5610	MCS0	full	12	12.11	11.95	15.89	38.815	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	7	6.83	6.67	10.61	11.512	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	7	-4.99	-5.21	-1.24	0.752	30	PASS
155	5775	MCS0	full	16	15.82	15.26	19.41	87.297	30	PASS

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7 UNDESIRABLE RADIATED EMISSION MEASUREMENT

7.1 Standard Applicable

7.1.1 Band Edge

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 §6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
15.407(b)(2) RSS-247 §6.2.2.2		
15.407(b)(3) RSS-247 §6.2.3.2		
15.407(b)(4)(i) RSS-247 §6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2 (dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

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

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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:

1. 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/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	1206	02/22/2021	02/21/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	08/06/2021	08/05/2022
Horn Antenna	Schwarzbeck	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
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2021	03/14/2022
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2021	03/14/2022
Attenuator	Marvelous	MVE2213-30	RF04	11/19/2020	11/18/2021
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
Highpass Filter	WI	WHKX10-1066-1300-1500-80SS	18	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
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219 、 210220 、 210221	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000-15000	210224 、 210306	03/15/2021	03/14/2022

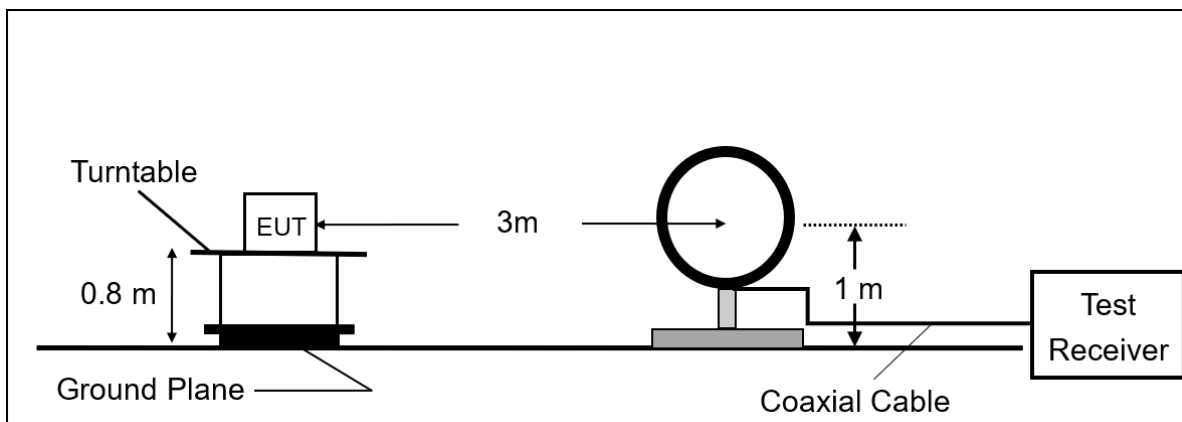
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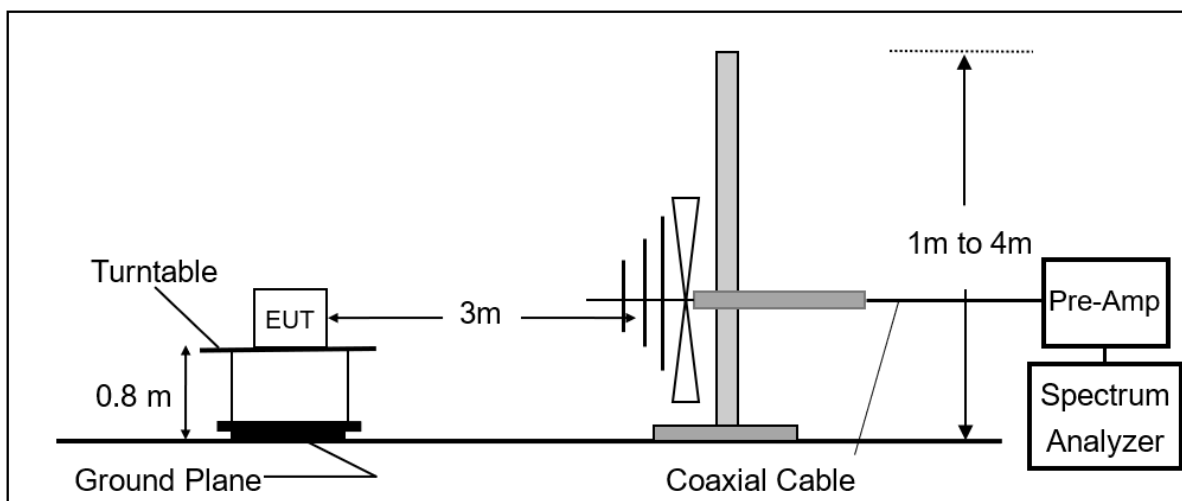
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7.3 Test SET-UP

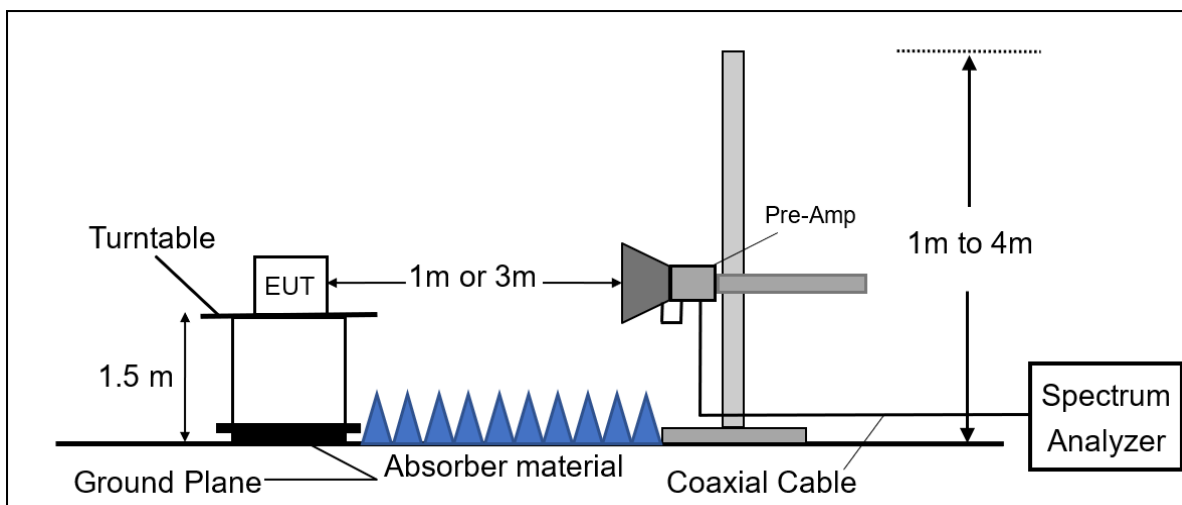
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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7.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
7. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
8. At frequency above 1 GHz, Set the spectrum analyzer:
 - A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
 - B. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for **Average** Detector.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. 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 $20 \cdot \log(uV/m)$

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.

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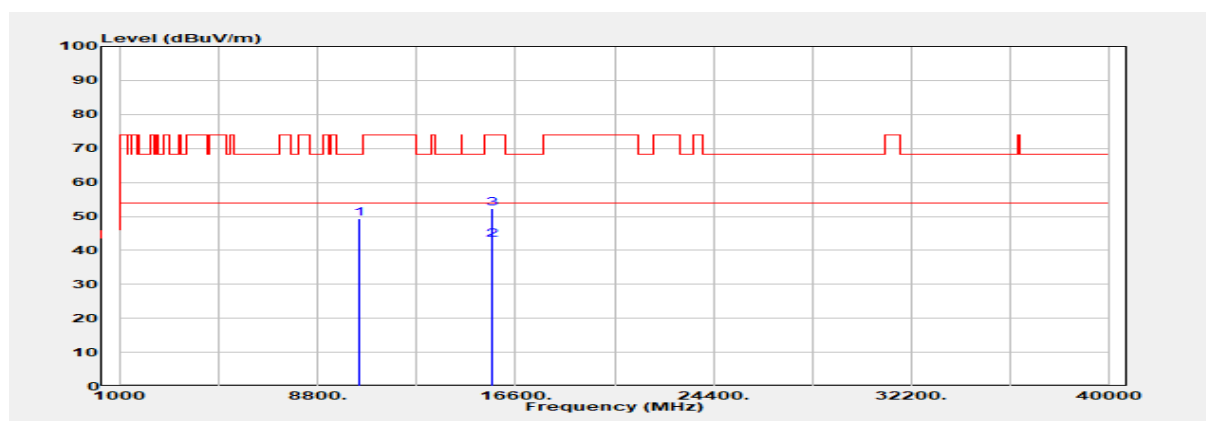
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7.7 Radiated Spurious Emission Measurement Result

7.7.1 Above 1GHz Worst-Case Data:

Report Number	:E2/2021/A0065	Test Site	:SAC G
Operation Mode	:802.11a / Band 1	Test Date	:2021-10-26
Test Frequency	:5220 MHz	Temp./Humi.	:23.2/67
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.000	Peak	39.77	9.68	49.45	68.20	-18.75
15660.000	Average	31.38	11.61	42.99	54.00	-11.01
15660.000	Peak	40.72	11.61	52.33	74.00	-21.67

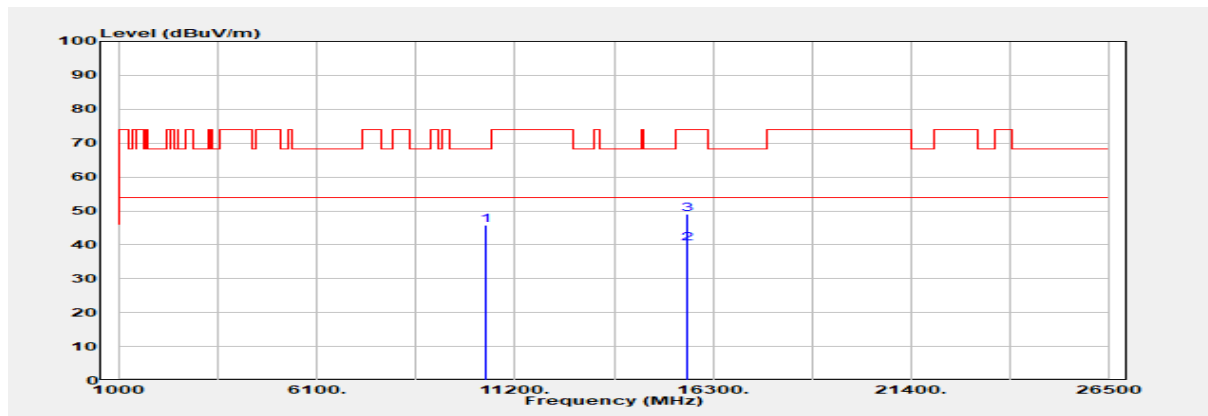
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 1
 Test Frequency :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-26
 Temp./Humi. :23.2/67
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.000	Peak	36.00	9.68	45.68	68.20	-22.52
15660.000	Average	28.66	11.61	40.27	54.00	-13.73
15660.000	Peak	37.34	11.61	48.95	74.00	-25.05

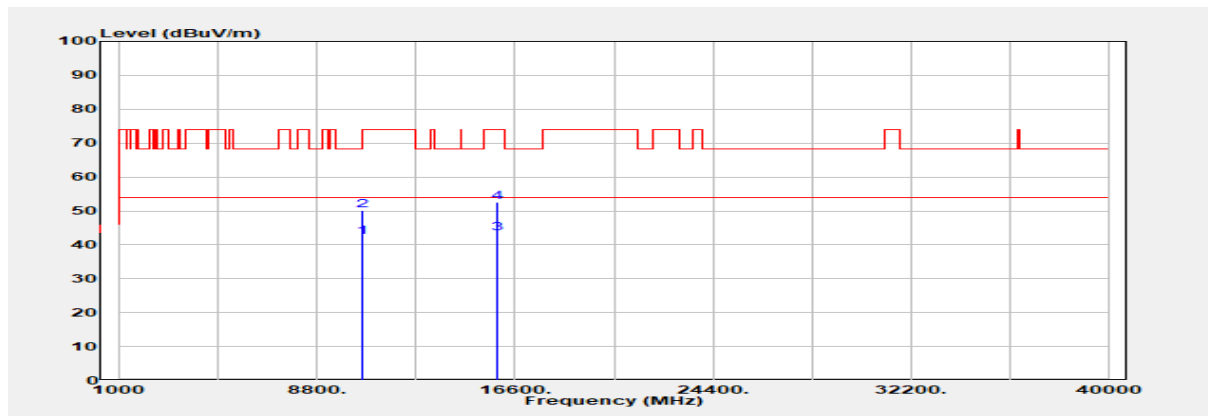
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 2
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-26
 Temp./Humi. :23.2/67
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.000	Average	33.40	8.99	42.39	54.00	-11.61
10600.000	Peak	41.04	8.99	50.03	74.00	-23.97
15900.000	Average	31.31	12.01	43.32	54.00	-10.68
15900.000	Peak	40.54	12.01	52.55	74.00	-21.45

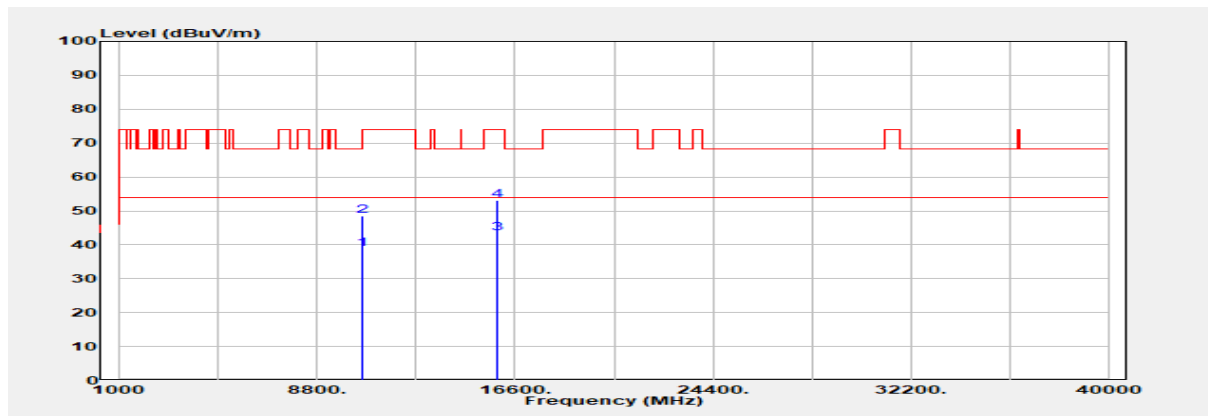
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 2
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-26
 Temp./Humi. :23.2/67
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.000	Average	29.81	8.99	38.80	54.00	-15.20
10600.000	Peak	39.51	8.99	48.50	74.00	-25.50
15900.000	Average	31.22	12.01	43.23	54.00	-10.77
15900.000	Peak	41.11	12.01	53.12	74.00	-20.89

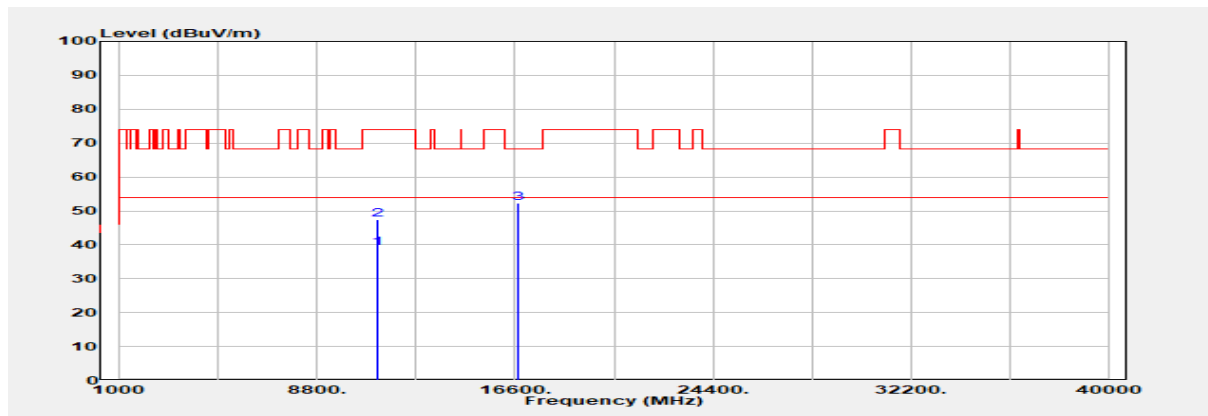
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 3
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-26
 Temp./Humi. :23.2/67
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.000	Average	29.65	9.36	39.01	54.00	-14.99
11160.000	Peak	38.12	9.36	47.48	74.00	-26.52
16740.000	Peak	41.05	11.29	52.34	68.20	-15.86

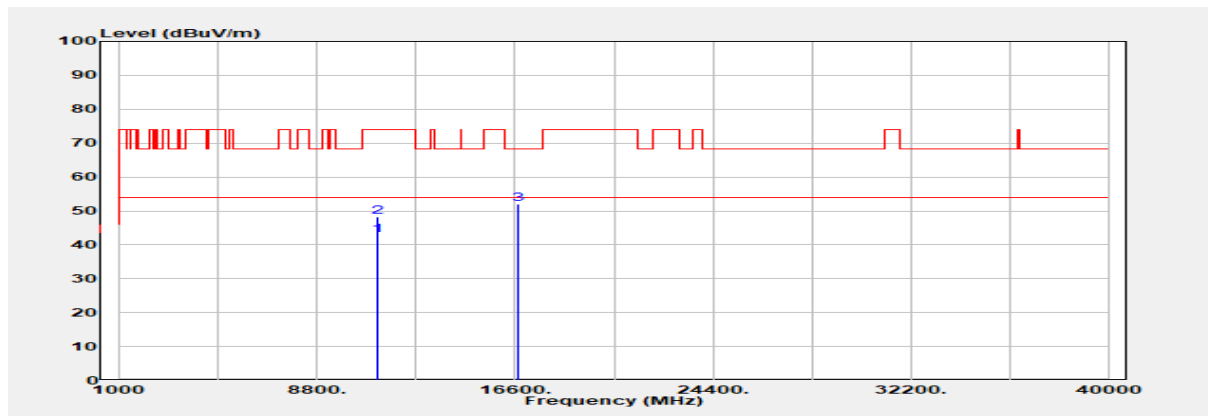
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 3
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-26
 Temp./Humi. :23.2/67
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.000	Average	33.36	9.36	42.72	54.00	-11.28
11160.000	Peak	38.90	9.36	48.26	74.00	-25.74
16740.000	Peak	40.81	11.29	52.10	68.20	-16.10

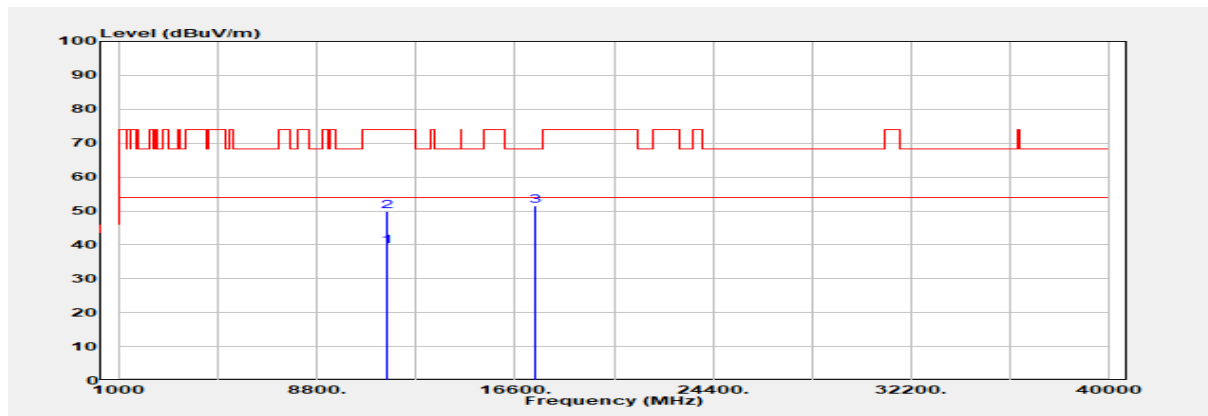
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-26
 Temp./Humi. :23.2/67
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.000	Average	29.61	10.00	39.61	54.00	-14.39
11570.000	Peak	39.85	10.00	49.85	74.00	-24.15
17355.000	Peak	40.68	10.90	51.58	68.20	-16.62

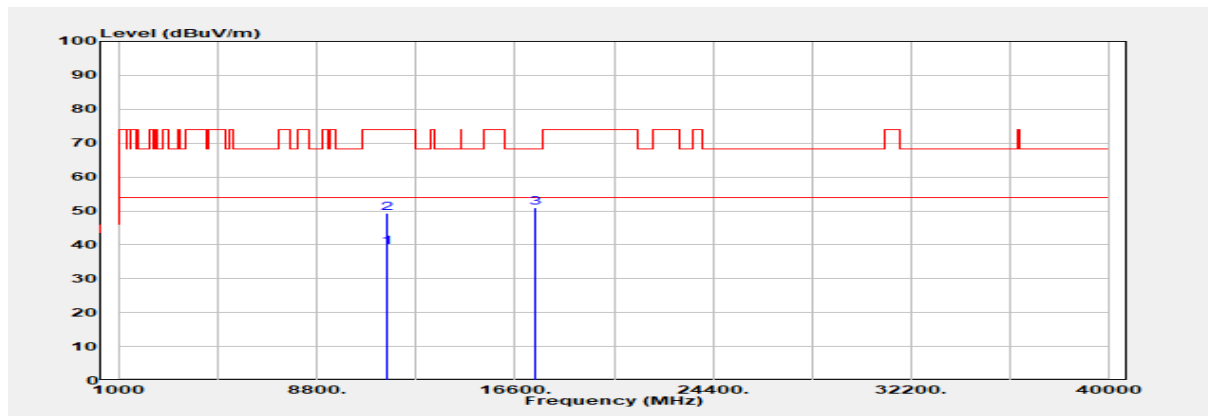
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-26
 Temp./Humi. :23.2/67
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.000	Average	29.43	10.00	39.42	54.00	-14.58
11570.000	Peak	39.25	10.00	49.25	74.00	-24.75
17355.000	Peak	40.12	10.90	51.02	68.20	-17.18

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7.7.2 Band edge falling to restricted band

Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11a / Band 1

Test Date :2021-10-22

Test Frequency :5180 MHz

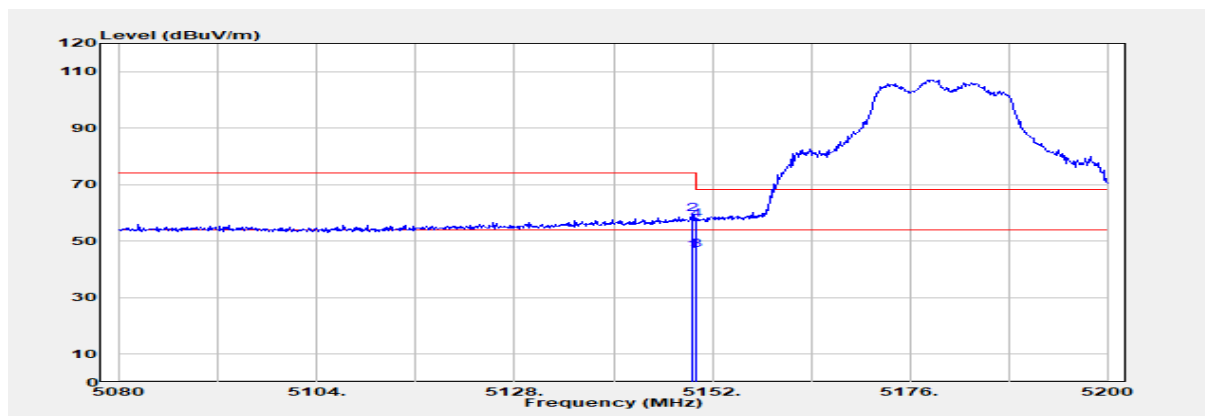
Temp./Humi. :23.9/68

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.480	Average	43.64	3.02	46.66	54.00	-7.34
5149.480	Peak	56.49	3.02	59.51	74.00	-14.49
5150.000	Average	43.71	3.03	46.74	54.00	-7.26
5150.000	Peak	54.39	3.03	57.42	74.00	-16.58

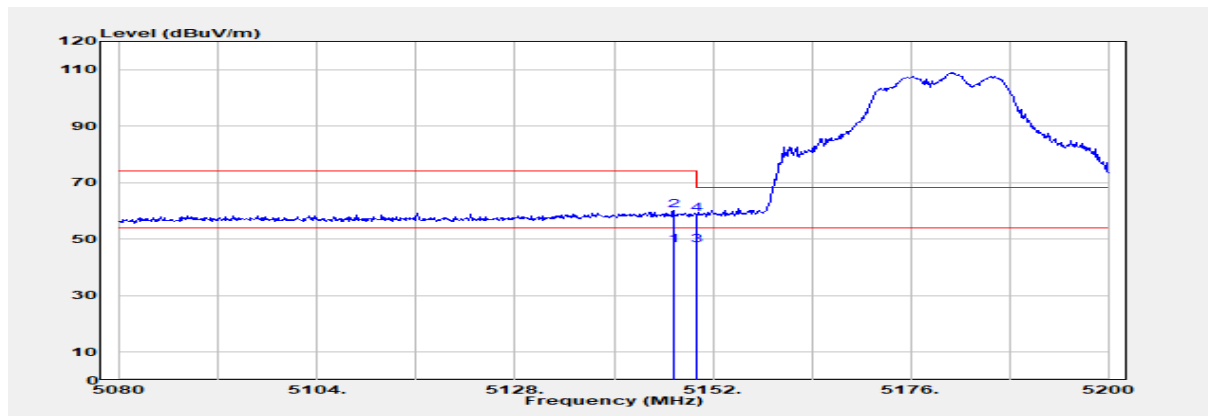
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-22
 Temp./Humi. :23.9/68
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.200	Average	44.74	2.96	47.70	54.00	-6.30
5147.200	Peak	57.07	2.96	60.03	74.00	-13.97
5150.000	Average	44.90	3.03	47.93	54.00	-6.07
5150.000	Peak	55.95	3.03	58.98	74.00	-15.02

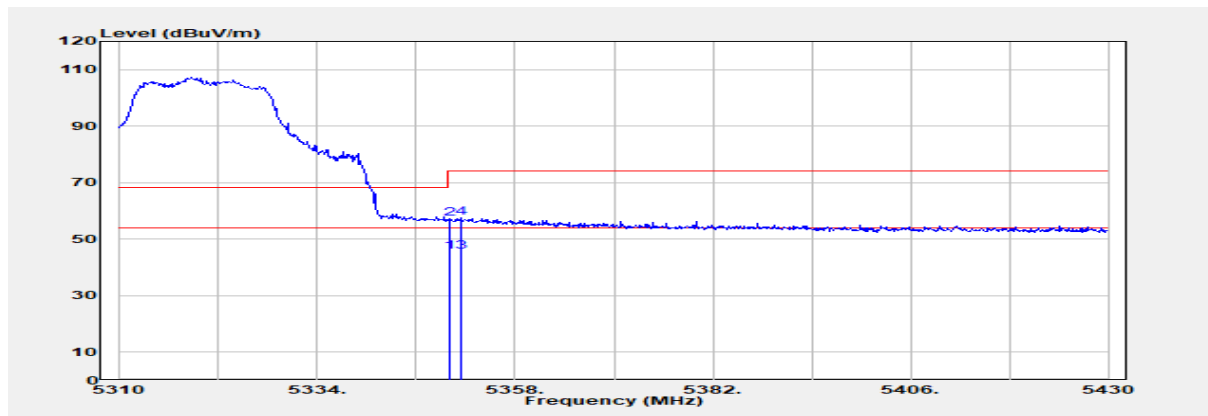
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-22
 Temp./Humi. :23.9/68
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	43.30	2.21	45.51	54.00	-8.49
5350.000	Peak	54.87	2.21	57.08	74.00	-16.92
5351.400	Average	43.22	2.21	45.43	54.00	-8.57
5351.400	Peak	55.29	2.21	57.50	74.00	-16.50

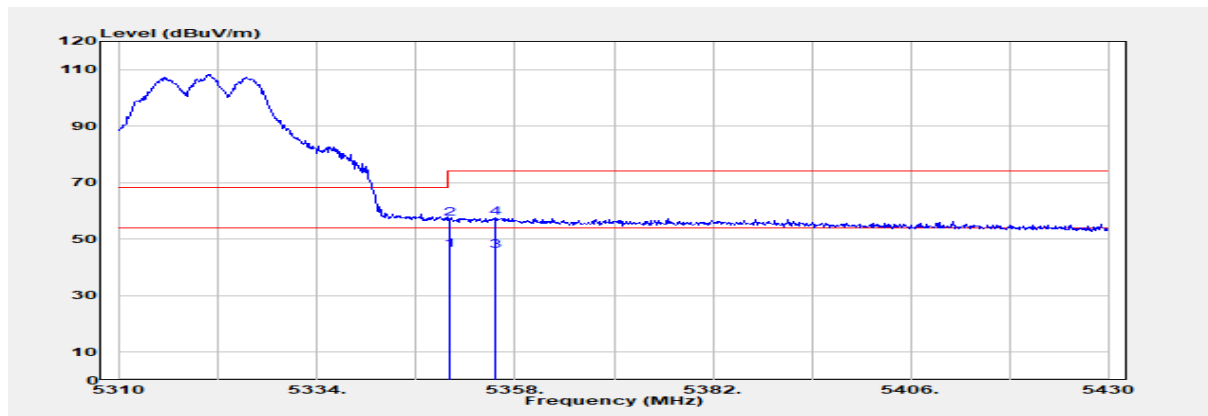
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-22
 Temp./Humi. :23.9/68
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	44.04	2.21	46.25	54.00	-7.75
5350.000	Peak	54.95	2.21	57.16	74.00	-16.84
5355.480	Average	43.71	2.22	45.93	54.00	-8.07
5355.480	Peak	55.37	2.22	57.58	74.00	-16.42

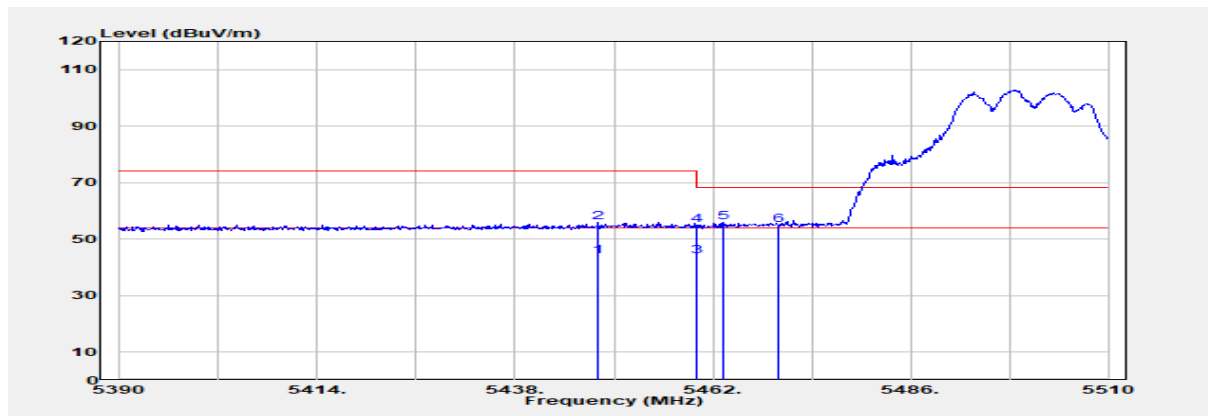
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-19
 Temp./Humi. :24.1/66
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5448.080	Average	41.32	2.54	43.87	54.00	-10.13
5448.080	Peak	53.28	2.54	55.82	74.00	-18.18
5460.000	Average	41.30	2.64	43.94	54.00	-10.06
5460.000	Peak	52.32	2.64	54.96	74.00	-19.04
5463.200	Peak	53.35	2.68	56.03	68.20	-12.17
5470.000	Peak	52.13	2.77	54.90	68.20	-13.30

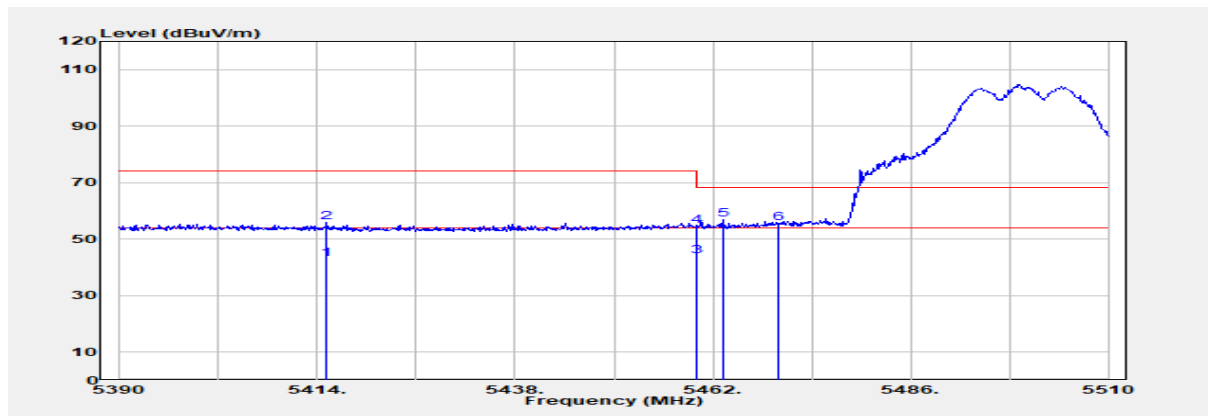
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-20
 Temp./Humi. :24.3/64
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5415.080	Average	40.54	2.49	43.03	54.00	-10.97
5415.080	Peak	53.54	2.49	56.03	74.00	-17.97
5460.000	Average	41.13	2.64	43.77	54.00	-10.23
5460.000	Peak	51.90	2.64	54.54	74.00	-19.46
5463.200	Peak	54.18	2.68	56.86	68.20	-11.34
5470.000	Peak	52.75	2.77	55.52	68.20	-12.68

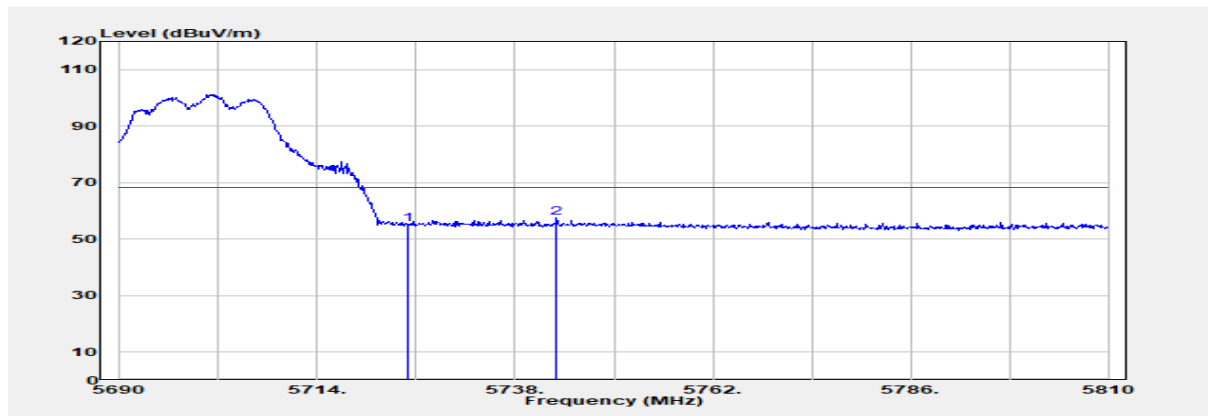
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-20
 Temp./Humi. :24.3/64
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	51.19	4.21	55.41	68.20	-12.80
5743.040	Peak	53.30	4.35	57.65	68.20	-10.55

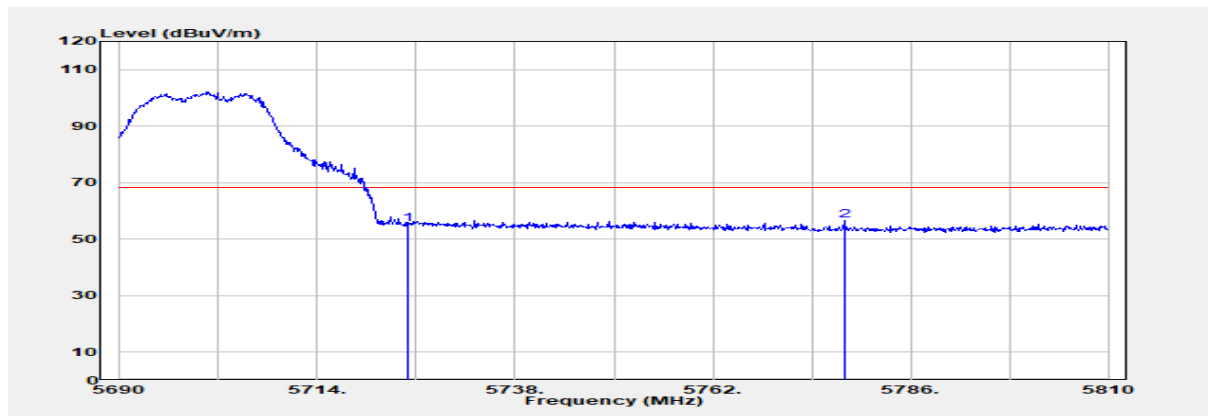
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-20
 Temp./Humi. :24.3/64
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	51.22	4.21	55.44	68.20	-12.76
5777.960	Peak	52.97	3.77	56.74	68.20	-11.46

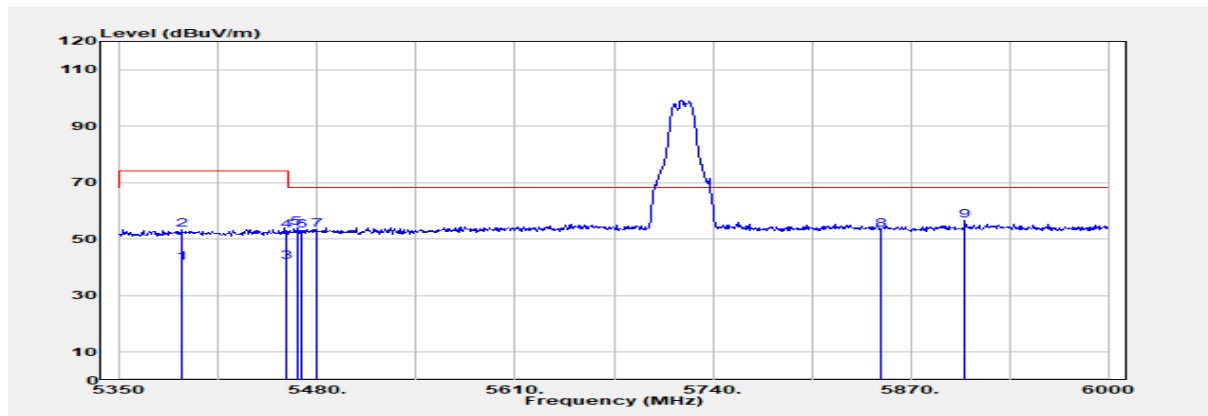
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 3
 Test Frequency :5720 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-20
 Temp./Humi. :24.3/64
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5390.300	Average	39.03	2.62	41.65	74.00	-32.35
5390.300	Peak	50.83	2.62	53.45	74.00	-20.55
5460.000	Average	39.21	2.64	41.85	74.00	-32.15
5460.000	Peak	50.21	2.64	52.85	74.00	-21.15
5466.350	Peak	51.35	2.72	54.07	68.20	-14.13
5470.000	Peak	50.14	2.77	52.91	68.20	-15.29
5480.000	Peak	50.67	2.76	53.43	68.20	-14.77
5850.000	Peak	48.98	4.31	53.29	68.20	-14.91
5905.750	Peak	52.40	4.25	56.65	68.20	-11.55

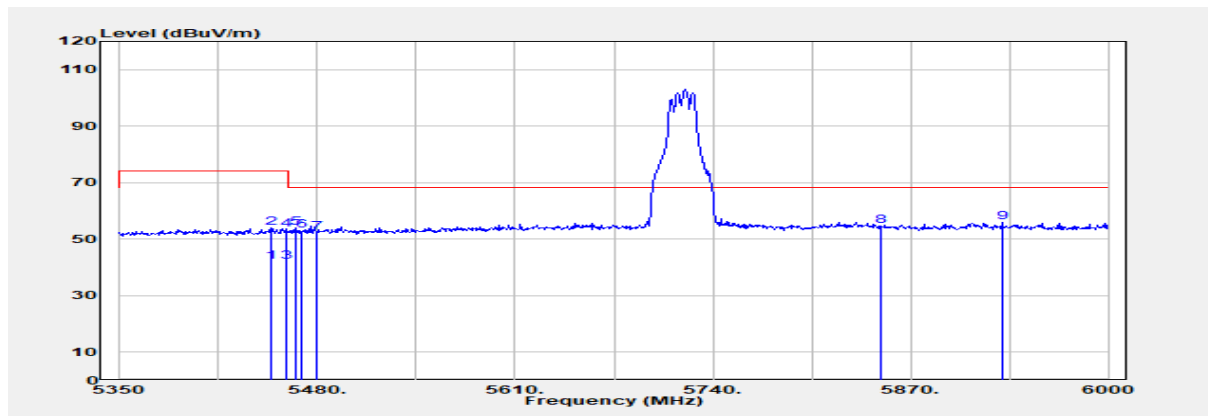
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 3
 Test Frequency :5720 MHz
 Test Mode :BE CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-20
 Temp./Humi. :24.3/64
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5449.450	Average	39.36	2.58	41.95	74.00	-32.05
5449.450	Peak	51.28	2.58	53.86	74.00	-20.14
5460.000	Average	39.21	2.64	41.85	74.00	-32.15
5460.000	Peak	50.81	2.64	53.45	74.00	-20.55
5465.700	Peak	51.27	2.71	53.98	68.20	-14.22
5470.000	Peak	50.18	2.77	52.95	68.20	-15.25
5480.000	Peak	49.74	2.76	52.50	68.20	-15.70
5850.000	Peak	50.44	4.31	54.75	68.20	-13.45
5930.450	Peak	51.51	4.33	55.84	68.20	-12.36

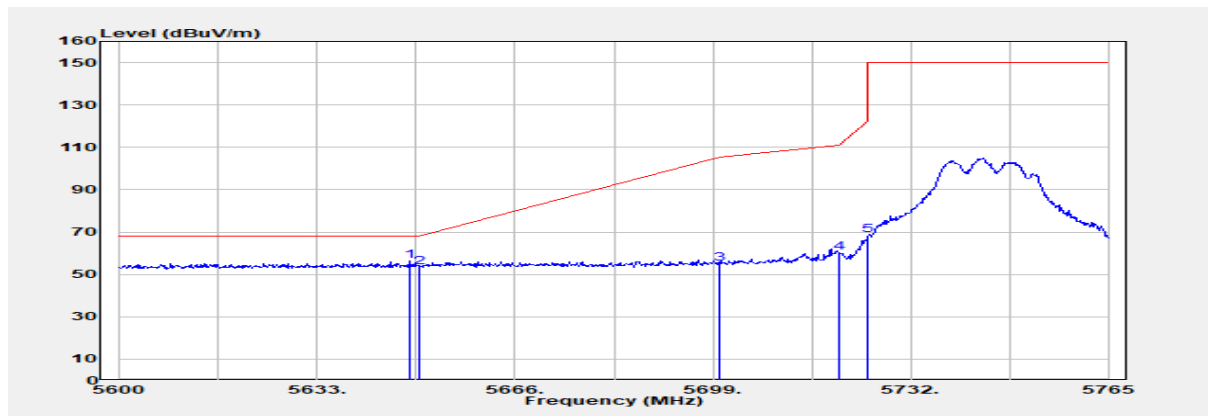
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-21
 Temp./Humi. :24.5/65
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5648.345	Peak	52.66	3.57	56.23	68.20	-11.97
5650.000	Peak	49.86	3.60	53.46	68.20	-14.74
5700.000	Peak	51.70	3.31	55.01	105.20	-50.19
5720.000	Peak	55.96	4.17	60.13	110.80	-50.67
5725.000	Peak	64.27	4.21	68.48	122.20	-53.72

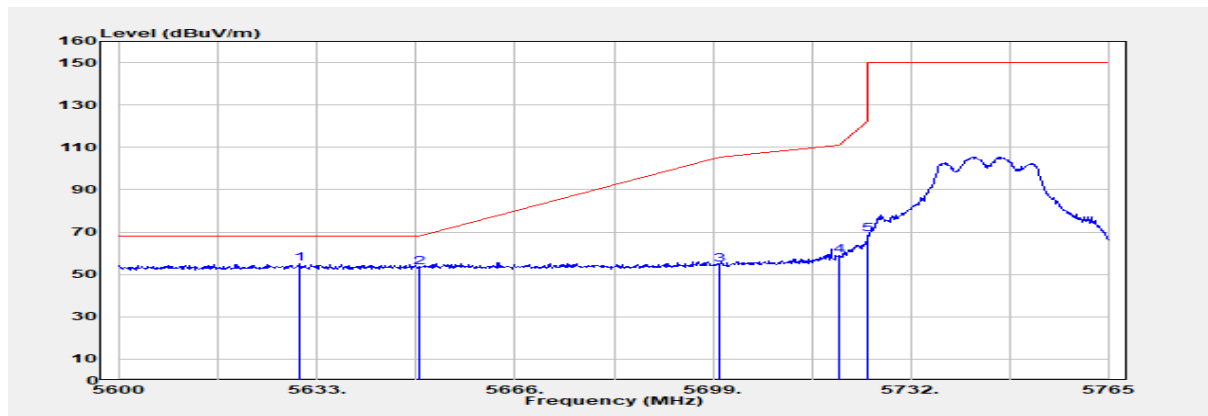
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-21
 Temp./Humi. :24.5/65
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5630.030	Peak	51.52	3.49	55.01	68.20	-13.19
5650.000	Peak	49.86	3.60	53.46	68.20	-14.74
5700.000	Peak	51.30	3.31	54.61	105.20	-50.59
5720.000	Peak	55.01	4.17	59.18	110.80	-51.62
5725.000	Peak	64.57	4.21	68.78	122.20	-53.42

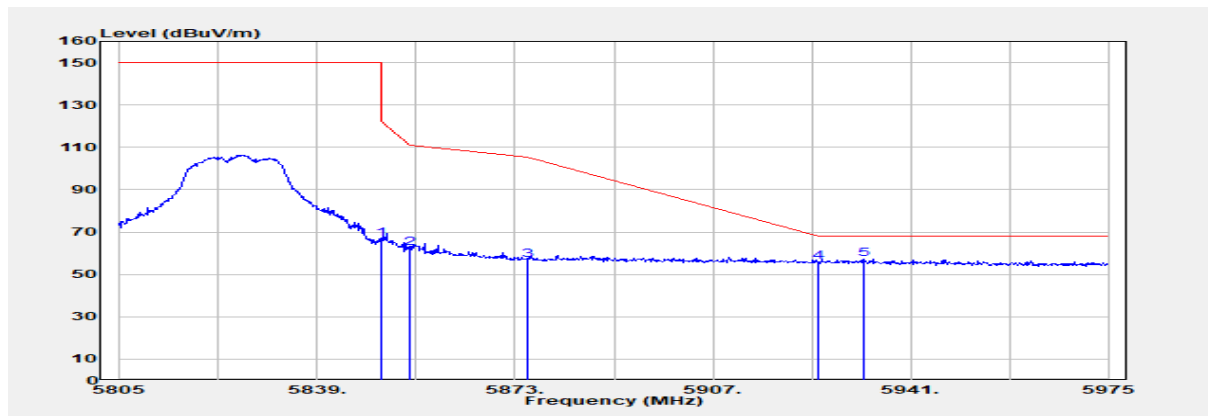
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-21
 Temp./Humi. :24.5/65
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	62.37	4.31	66.68	122.20	-55.52
5855.000	Peak	58.36	4.21	62.57	110.80	-48.23
5875.000	Peak	53.04	3.90	56.94	105.20	-48.26
5925.000	Peak	51.44	4.36	55.80	68.20	-12.40
5932.840	Peak	52.90	4.28	57.18	68.20	-11.02

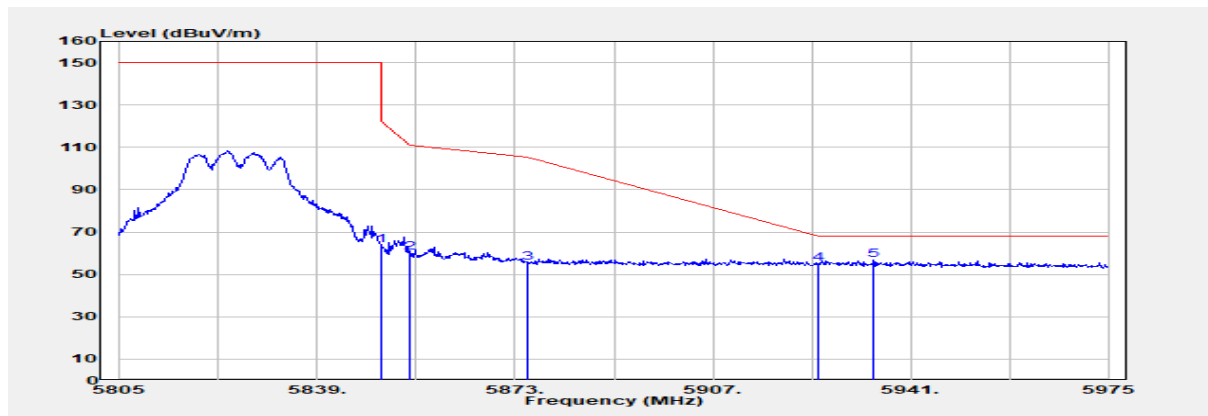
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Report Number :E2/2021/A0065
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-21
 Temp./Humi. :24.5/65
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	59.22	4.31	63.53	122.20	-58.67
5855.000	Peak	55.85	4.21	60.06	110.80	-50.74
5875.000	Peak	51.79	3.90	55.69	105.20	-49.51
5925.000	Peak	50.71	4.36	55.07	68.20	-13.13
5934.710	Peak	52.63	4.24	56.88	68.20	-11.32

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 1

Test Date :2021-10-22

Test Frequency :5180 MHz

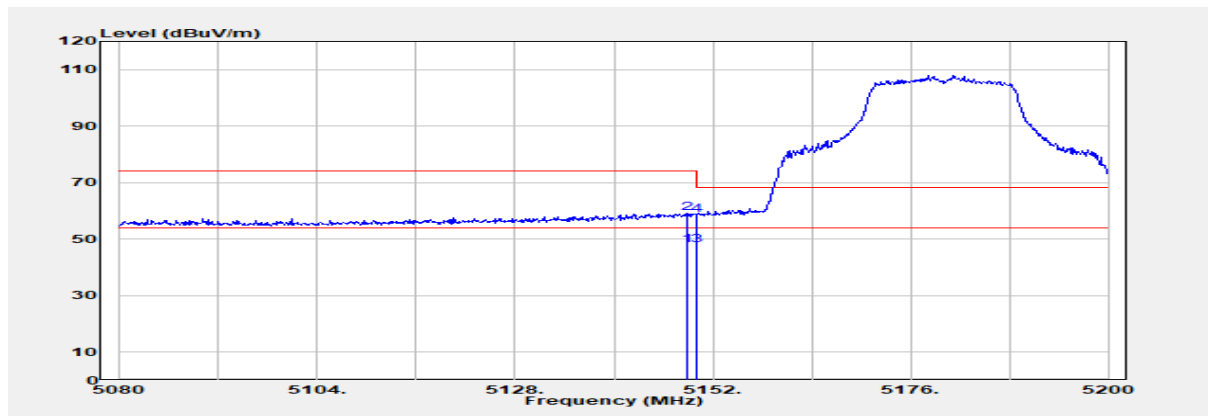
Temp./Humi. :23.9/68

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.880	Average	44.66	3.00	47.66	54.00	-6.34
5148.880	Peak	56.04	3.00	59.04	74.00	-14.96
5150.000	Average	44.83	3.03	47.86	54.00	-6.14
5150.000	Peak	55.43	3.03	58.46	74.00	-15.54

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 1

Test Date :2021-10-22

Test Frequency :5180 MHz

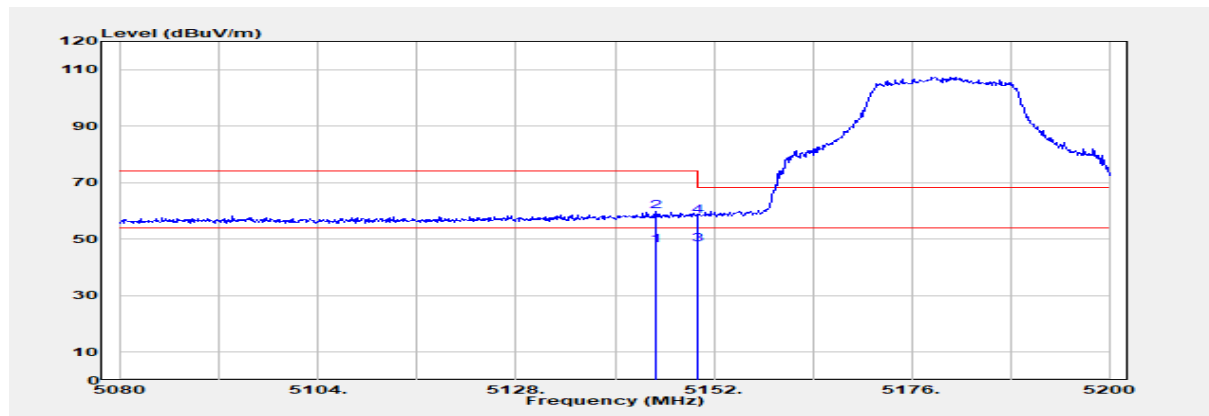
Temp./Humi. :23.9/68

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5145.040	Average	45.01	2.91	47.92	54.00	-6.08
5145.040	Peak	56.96	2.91	59.87	74.00	-14.13
5150.000	Average	45.23	3.03	48.26	54.00	-5.74
5150.000	Peak	55.07	3.03	58.10	74.00	-15.90

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 2

Test Date :2021-10-22

Test Frequency :5320 MHz

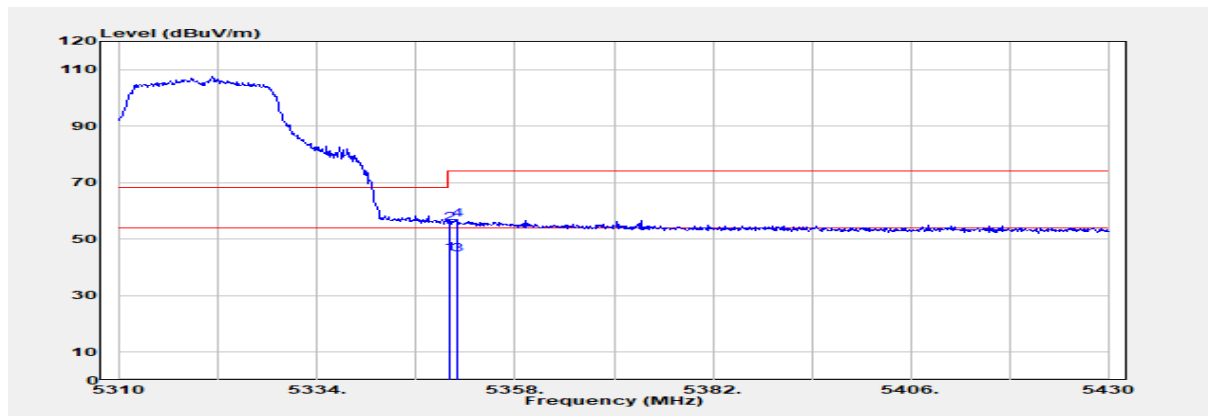
Temp./Humi. :23.9/68

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	42.63	2.21	44.84	54.00	-9.16
5350.000	Peak	53.37	2.21	55.58	74.00	-18.42
5351.040	Average	42.43	2.21	44.64	54.00	-9.36
5351.040	Peak	54.66	2.21	56.87	74.00	-17.13

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 2

Test Date :2021-10-22

Test Frequency :5320 MHz

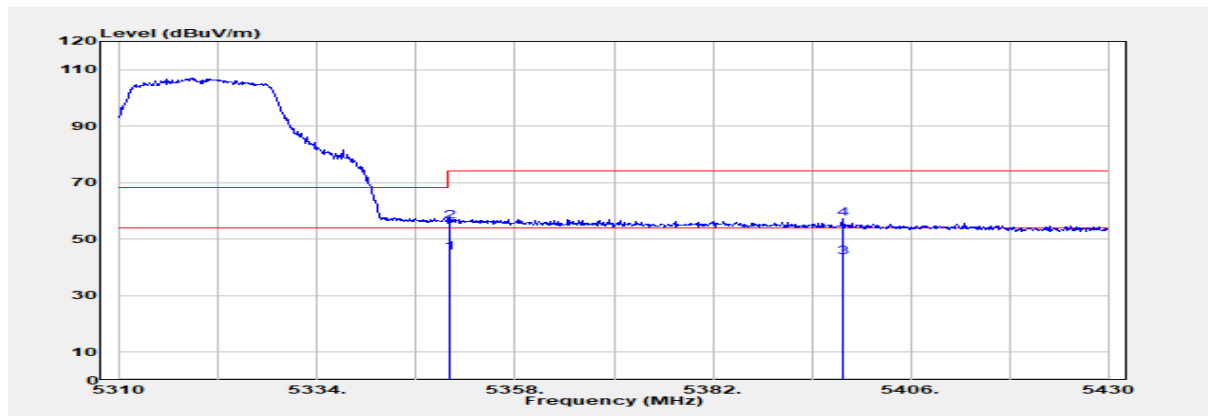
Temp./Humi. :23.9/68

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	43.15	2.21	45.36	54.00	-8.65
5350.000	Peak	54.10	2.21	56.31	74.00	-17.69
5397.720	Average	41.05	2.56	43.61	54.00	-10.39
5397.720	Peak	54.72	2.56	57.27	74.00	-16.73

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 3

Test Date :2021-10-13

Test Frequency :5500 MHz

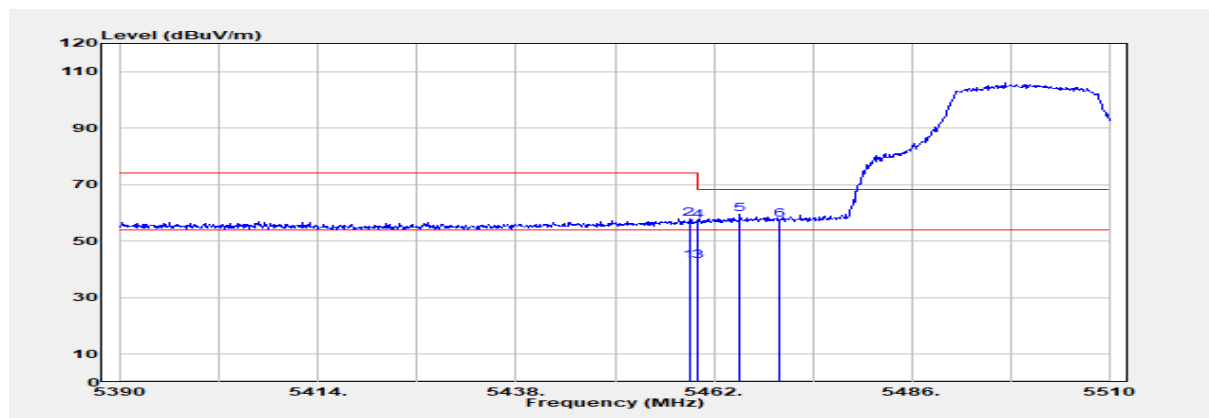
Temp./Humi. :24.0/63

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.000	Average	40.21	2.64	42.84	54.00	-11.16
5459.000	Peak	55.34	2.64	57.97	74.00	-16.03
5460.000	Average	40.24	2.64	42.88	54.00	-11.12
5460.000	Peak	54.59	2.64	57.23	74.00	-16.77
5465.120	Peak	56.83	2.71	59.53	68.20	-8.67
5470.000	Peak	54.79	2.77	57.56	68.20	-10.64

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 3

Test Date :2021-10-13

Test Frequency :5500 MHz

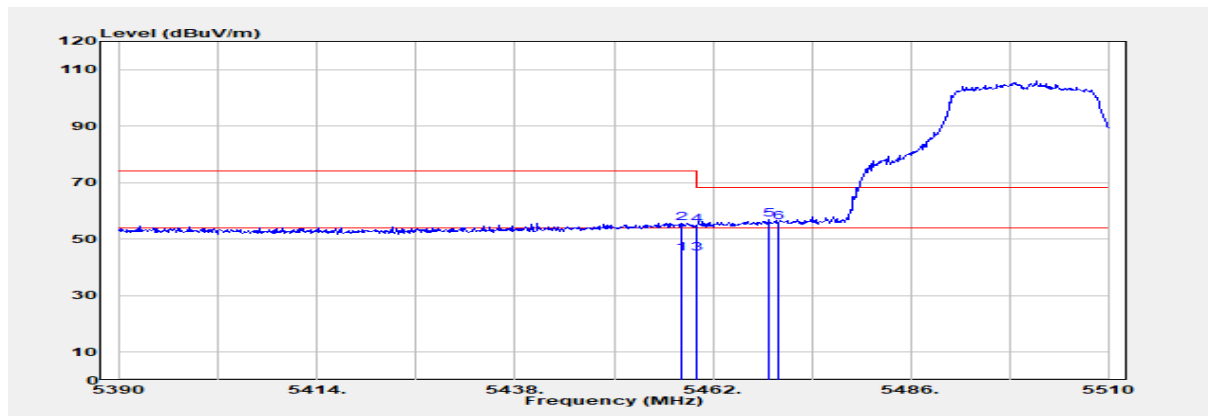
Temp./Humi. :24.0/63

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.280	Average	42.10	2.63	44.74	54.00	-9.26
5458.280	Peak	53.12	2.63	55.75	74.00	-18.25
5460.000	Average	42.21	2.64	44.85	54.00	-9.15
5460.000	Peak	52.38	2.64	55.02	74.00	-18.98
5468.840	Peak	54.25	2.76	57.01	68.20	-11.19
5470.000	Peak	53.31	2.77	56.08	68.20	-12.12

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 3

Test Date :2021-10-13

Test Frequency :5700 MHz

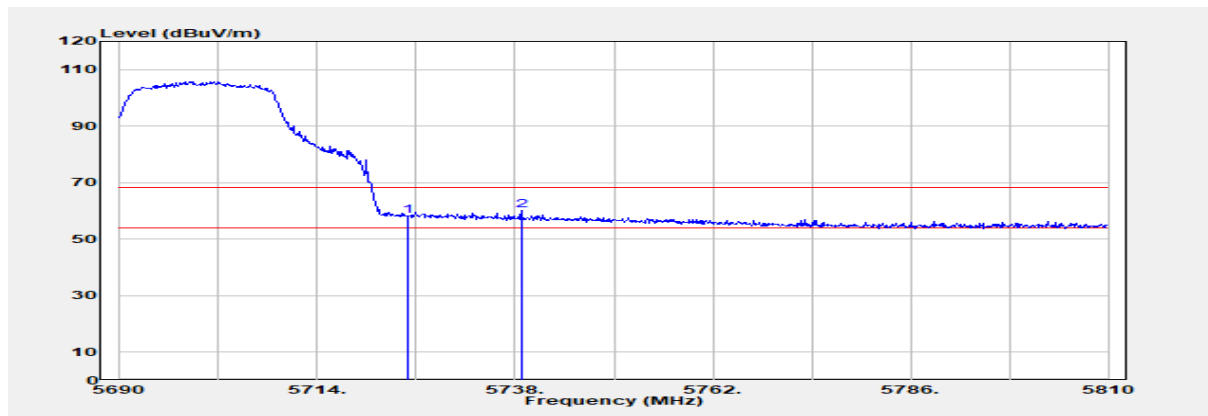
Temp./Humi. :24.0/63

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	53.89	4.21	58.10	68.20	-10.10
5738.720	Peak	55.75	4.33	60.07	68.20	-8.13

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 3

Test Date :2021-10-13

Test Frequency :5700 MHz

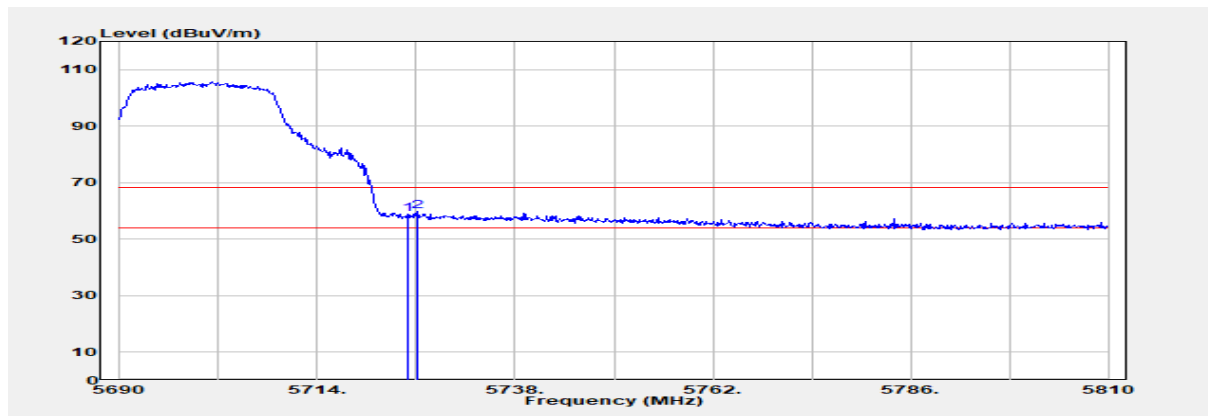
Temp./Humi. :24.0/63

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	54.62	4.21	58.83	68.20	-9.37
5726.120	Peak	55.51	4.22	59.73	68.20	-8.47

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 3

Test Date :2021-10-13

Test Frequency :5720 MHz

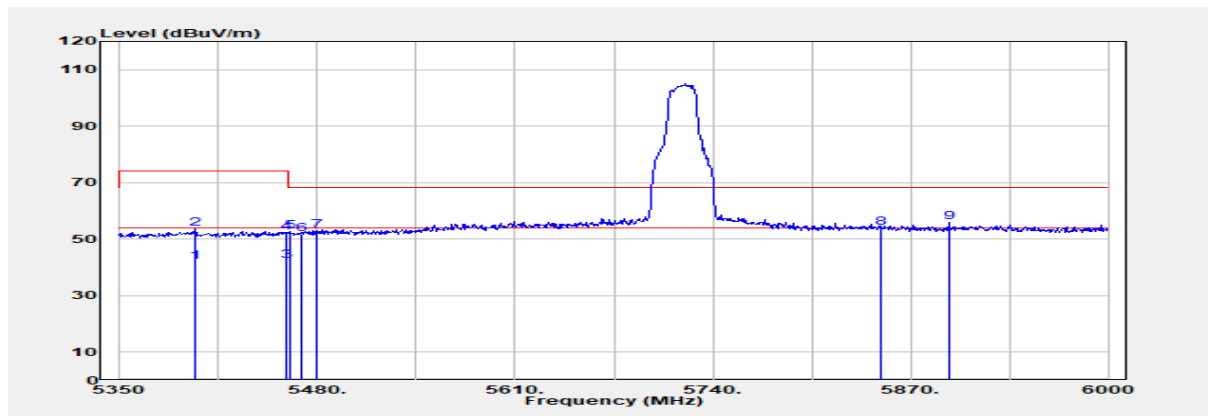
Temp./Humi. :24.0/63

Test Mode :BE CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5400.050	Average	39.31	2.54	41.85	54.00	-12.15
5400.050	Peak	50.99	2.54	53.53	74.00	-20.47
5460.000	Average	39.77	2.64	42.41	54.00	-11.59
5460.000	Peak	49.66	2.64	52.30	74.00	-21.70
5462.450	Peak	49.91	2.67	52.58	68.20	-15.62
5470.000	Peak	48.99	2.77	51.76	68.20	-16.44
5480.000	Peak	50.38	2.76	53.14	68.20	-15.06
5850.000	Peak	49.67	4.31	53.98	68.20	-14.22
5895.350	Peak	51.75	4.03	55.78	68.20	-12.42

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 3

Test Date :2021-10-13

Test Frequency :5720 MHz

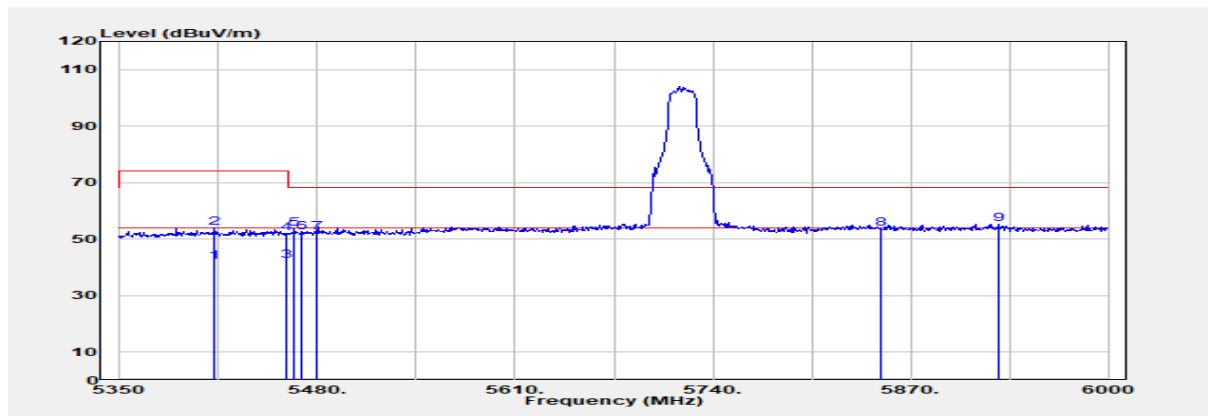
Temp./Humi. :24.0/63

Test Mode :BE CH MID

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5412.400	Average	39.53	2.54	42.07	54.00	-11.93
5412.400	Peak	51.41	2.54	53.95	74.00	-20.05
5460.000	Average	39.61	2.64	42.25	54.00	-11.75
5460.000	Peak	49.41	2.64	52.05	74.00	-21.95
5465.050	Peak	50.89	2.71	53.60	68.20	-14.60
5470.000	Peak	49.45	2.77	52.22	68.20	-15.98
5480.000	Peak	49.75	2.76	52.51	68.20	-15.69
5850.000	Peak	49.38	4.31	53.69	68.20	-14.51
5927.850	Peak	50.99	4.35	55.34	68.20	-12.86

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 4

Test Date :2021-10-25

Test Frequency :5745 MHz

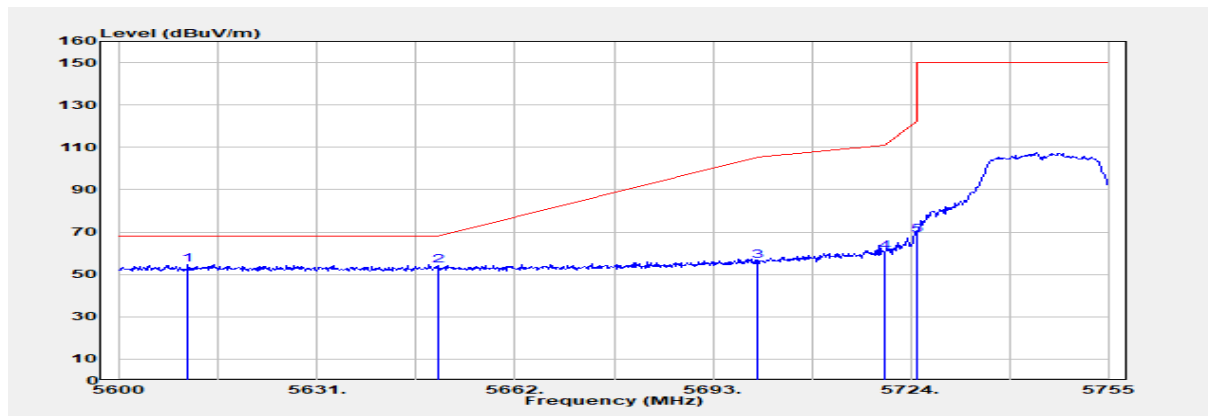
Temp./Humi. :23.8/69

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5610.695	Peak	51.38	3.36	54.74	68.20	-13.46
5650.000	Peak	50.47	3.60	54.07	68.20	-14.13
5700.000	Peak	53.02	3.31	56.33	105.20	-48.87
5720.000	Peak	56.48	4.17	60.65	110.80	-50.15
5725.000	Peak	64.38	4.21	68.59	122.20	-53.61

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 4

Test Date :2021-10-26

Test Frequency :5745 MHz

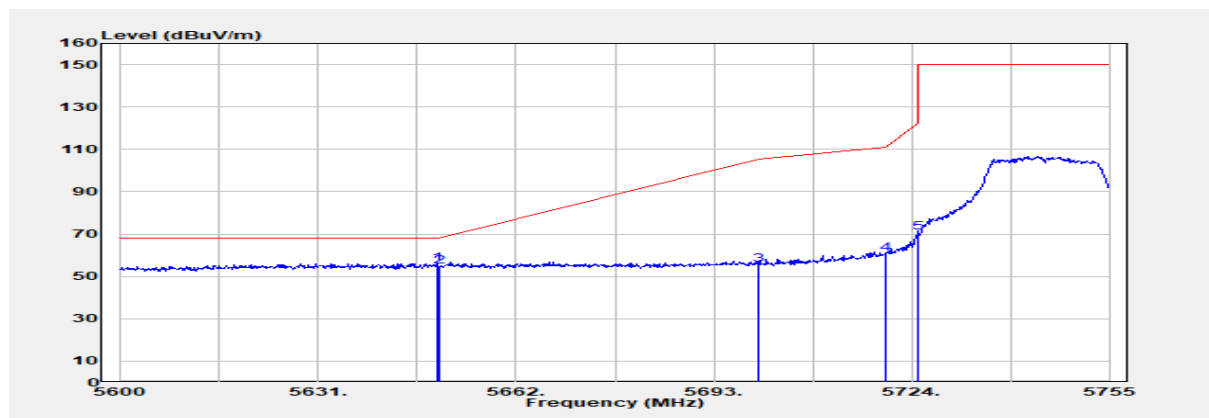
Temp./Humi. :24.4/67

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5649.600	Peak	52.50	3.59	56.09	68.20	-12.11
5650.000	Peak	50.96	3.60	54.56	68.20	-13.64
5700.000	Peak	52.39	3.31	55.70	105.20	-49.50
5720.000	Peak	56.40	4.17	60.57	110.80	-50.23
5725.000	Peak	66.66	4.21	70.88	122.20	-51.33

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 4

Test Date :2021-10-21

Test Frequency :5825 MHz

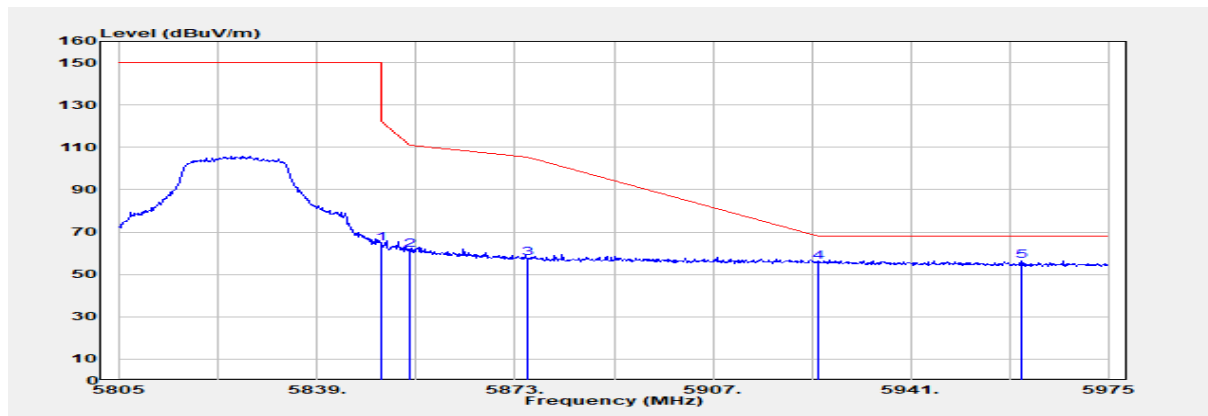
Temp./Humi. :24.5/65

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	60.29	4.31	64.60	122.20	-57.60
5855.000	Peak	57.42	4.21	61.63	110.80	-49.17
5875.000	Peak	53.85	3.90	57.75	105.20	-47.45
5925.000	Peak	51.62	4.36	55.97	68.20	-12.23
5960.040	Peak	52.74	3.82	56.56	68.20	-11.64

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac20 / Band 4

Test Date :2021-10-21

Test Frequency :5825 MHz

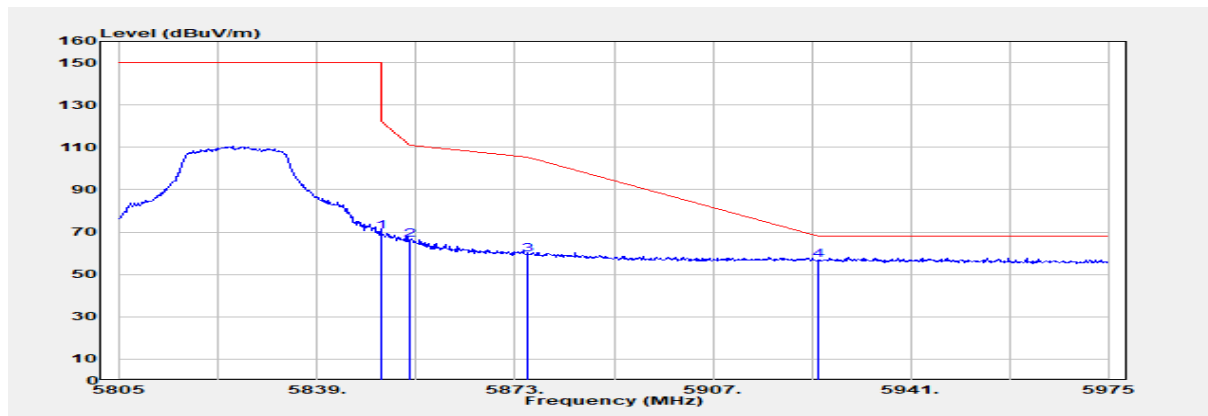
Temp./Humi. :24.5/65

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	66.06	4.31	70.37	122.20	-51.83
5855.000	Peak	61.98	4.21	66.19	110.80	-44.61
5875.000	Peak	55.64	3.90	59.54	105.20	-45.66
5925.000	Peak	52.62	4.36	56.98	68.20	-11.22

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac40 / Band 1

Test Date :2021-10-22

Test Frequency :5190 MHz

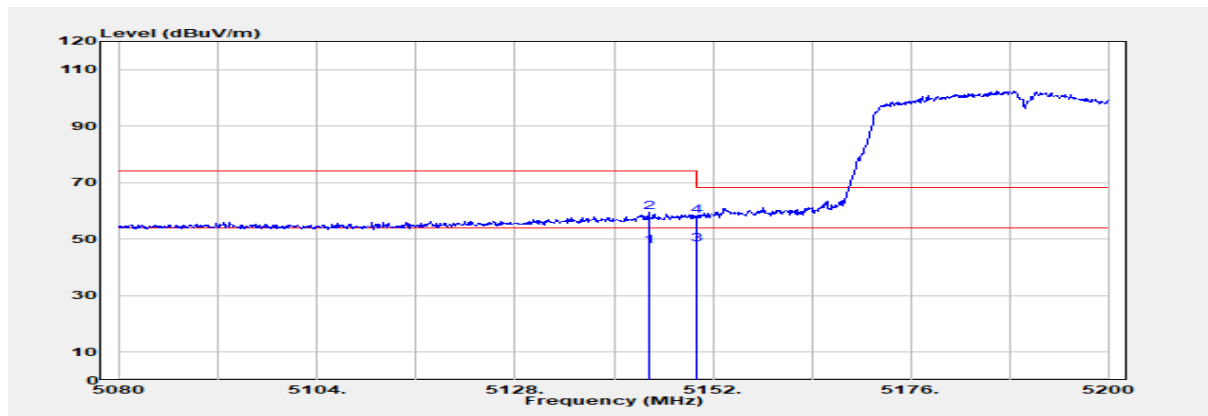
Temp./Humi. :23.9/68

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5144.200	Average	44.61	2.89	47.50	54.00	-6.50
5144.200	Peak	56.72	2.89	59.61	74.00	-14.39
5150.000	Average	45.17	3.03	48.20	54.00	-5.80
5150.000	Peak	55.23	3.03	58.26	74.00	-15.74

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac40 / Band 1

Test Date :2021-10-22

Test Frequency :5190 MHz

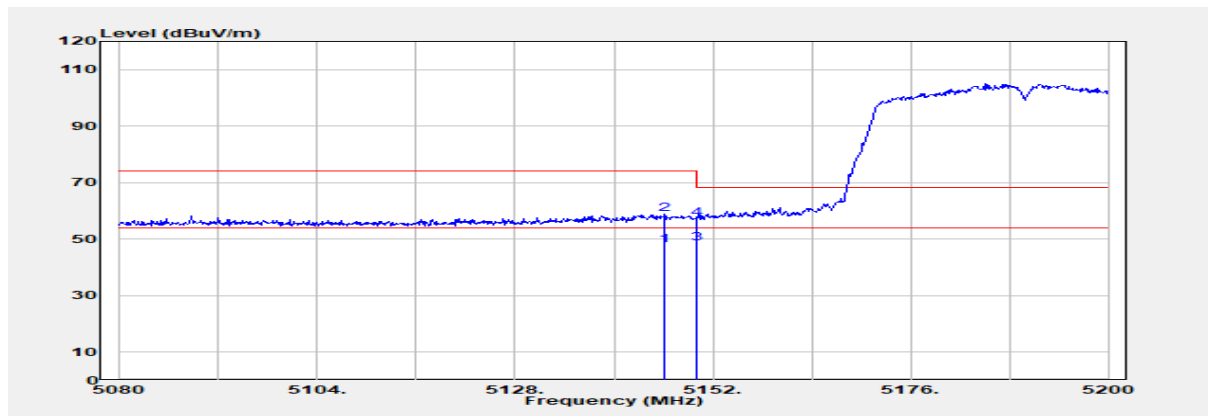
Temp./Humi. :23.9/68

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.120	Average	44.87	2.94	47.81	54.00	-6.19
5146.120	Peak	55.99	2.94	58.93	74.00	-15.07
5150.000	Average	45.58	3.03	48.61	54.00	-5.39
5150.000	Peak	54.06	3.03	57.09	74.00	-16.91

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac40 / Band 2

Test Date :2021-10-22

Test Frequency :5310 MHz

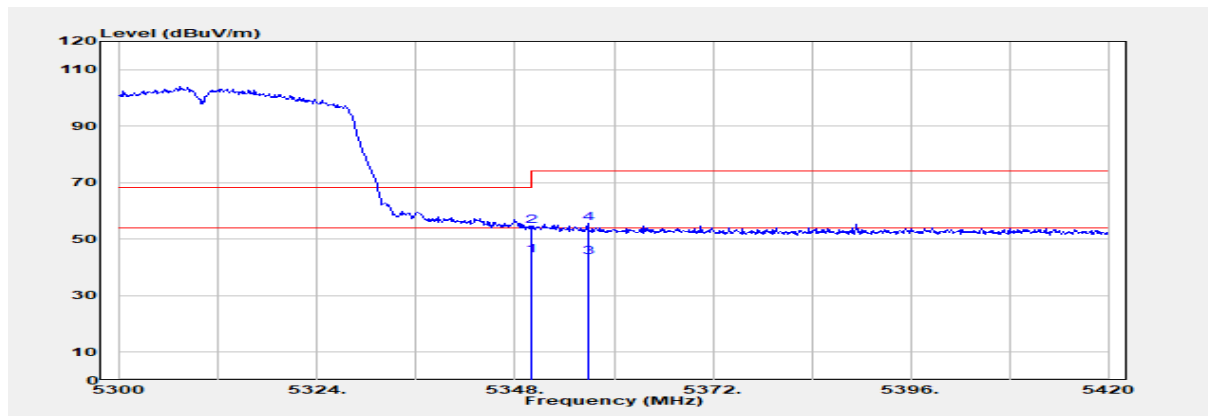
Temp./Humi. :23.9/68

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	42.05	2.21	44.26	54.00	-9.74
5350.000	Peak	52.32	2.21	54.53	74.00	-19.47
5356.880	Average	41.20	2.22	43.42	54.00	-10.58
5356.880	Peak	53.29	2.22	55.51	74.00	-18.49

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac40 / Band 2

Test Date :2021-10-22

Test Frequency :5310 MHz

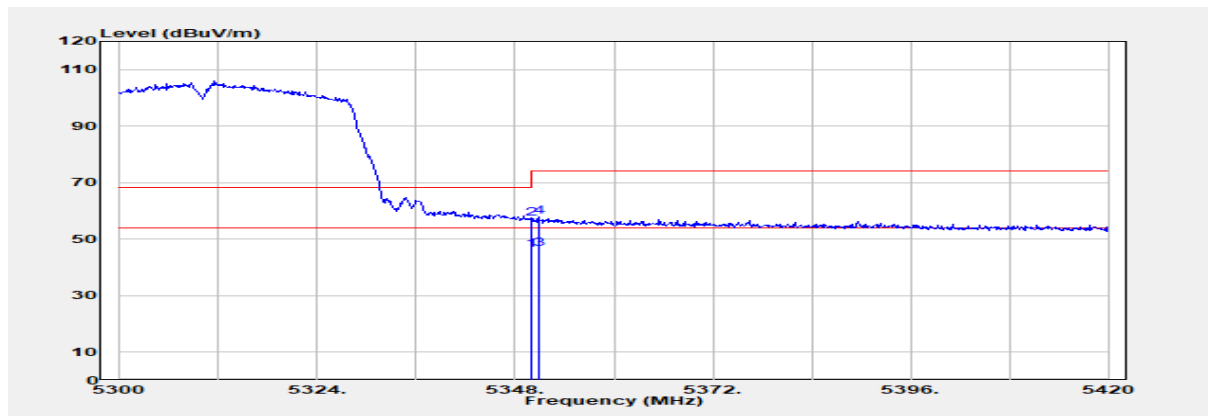
Temp./Humi. :23.9/68

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	44.06	2.21	46.27	54.00	-7.73
5350.000	Peak	54.97	2.21	57.18	74.00	-16.82
5350.880	Average	44.24	2.21	46.45	54.00	-7.55
5350.880	Peak	55.79	2.21	58.00	74.00	-16.00

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac40 / Band 4

Test Date :2021-10-26

Test Frequency :5755 MHz

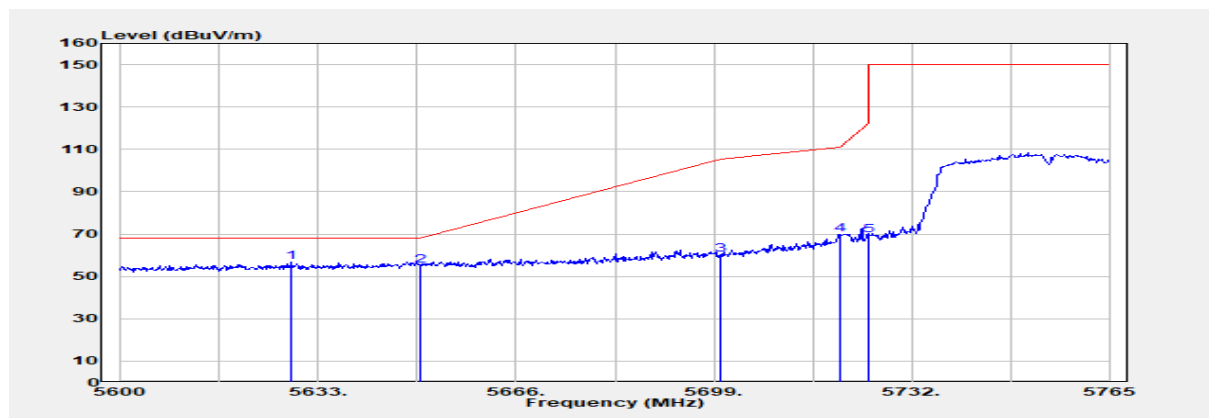
Temp./Humi. :24.4/67

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5628.545	Peak	53.52	3.48	57.00	68.20	-11.20
5650.000	Peak	51.38	3.60	54.98	68.20	-13.22
5700.000	Peak	57.17	3.31	60.48	105.20	-44.72
5720.000	Peak	65.52	4.17	69.69	110.80	-41.11
5725.000	Peak	65.30	4.21	69.51	122.20	-52.69

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac40 / Band 4

Test Date :2021-10-26

Test Frequency :5755 MHz

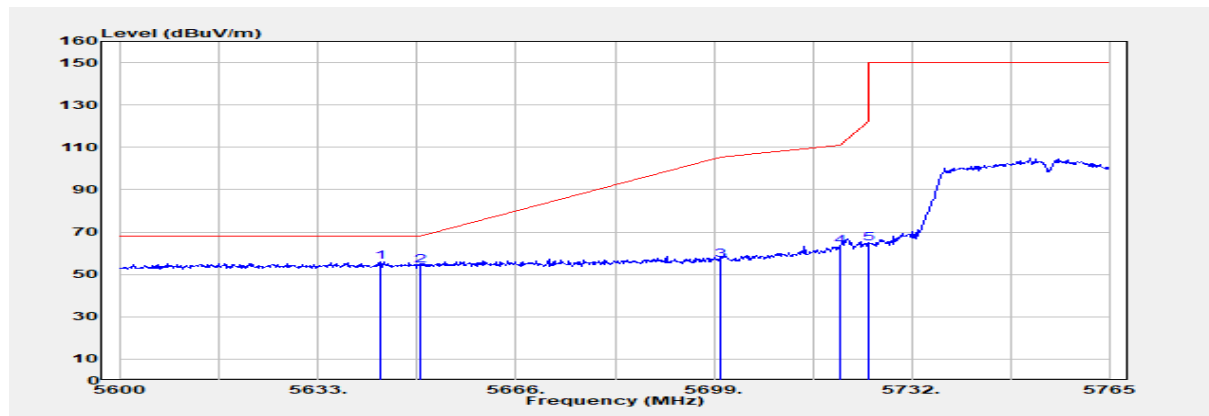
Temp./Humi. :24.4/67

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5643.230	Peak	52.57	3.47	56.05	68.20	-12.15
5650.000	Peak	50.58	3.60	54.18	68.20	-14.02
5700.000	Peak	53.41	3.31	56.72	105.20	-48.48
5720.000	Peak	59.22	4.17	63.39	110.80	-47.41
5725.000	Peak	60.29	4.21	64.50	122.20	-57.70

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac40 / Band 4

Test Date :2021-10-26

Test Frequency :5795 MHz

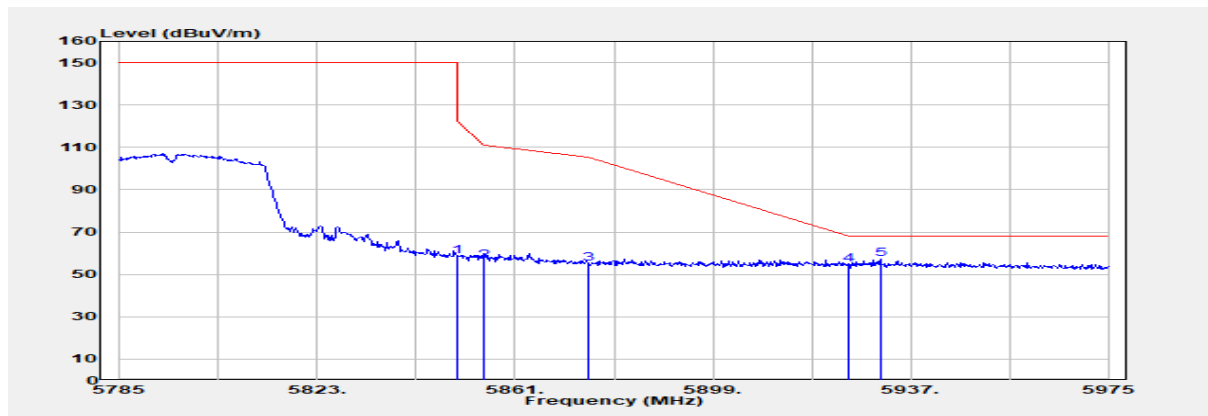
Temp./Humi. :24.4/67

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	54.26	4.31	58.57	122.20	-63.63
5855.000	Peak	52.30	4.21	56.51	110.80	-54.29
5875.000	Peak	50.96	3.90	54.86	105.20	-50.34
5925.000	Peak	50.31	4.36	54.67	68.20	-13.53
5931.300	Peak	53.03	4.31	57.34	68.20	-10.86

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac40 / Band 4

Test Date :2021-10-26

Test Frequency :5795 MHz

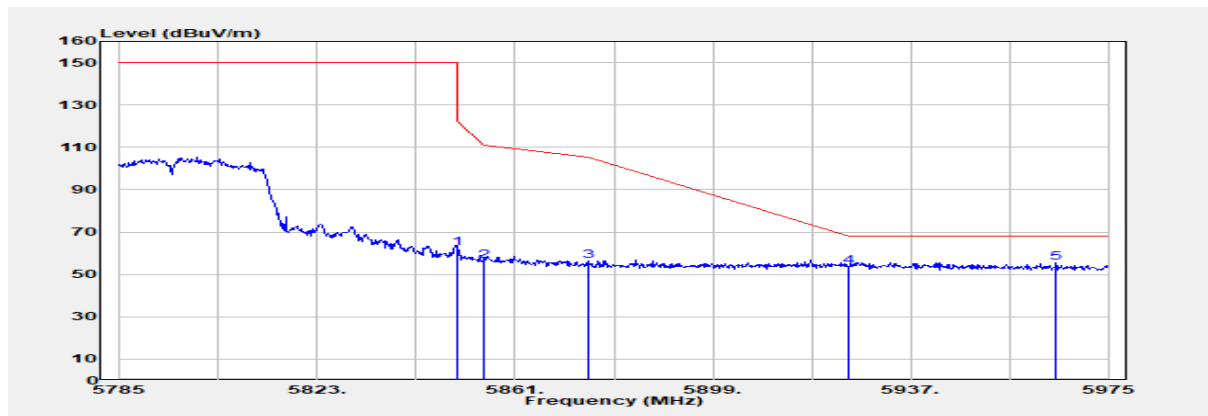
Temp./Humi. :24.4/67

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



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	58.30	4.31	62.61	122.20	-59.59
5855.000	Peak	52.11	4.21	56.32	110.80	-54.48
5875.000	Peak	52.54	3.90	56.44	105.20	-48.76
5925.000	Peak	49.57	4.36	53.92	68.20	-14.28
5964.930	Peak	51.76	3.85	55.61	68.20	-12.59

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac80 / Band 1

Test Date :2021-10-25

Test Frequency :5210 MHz

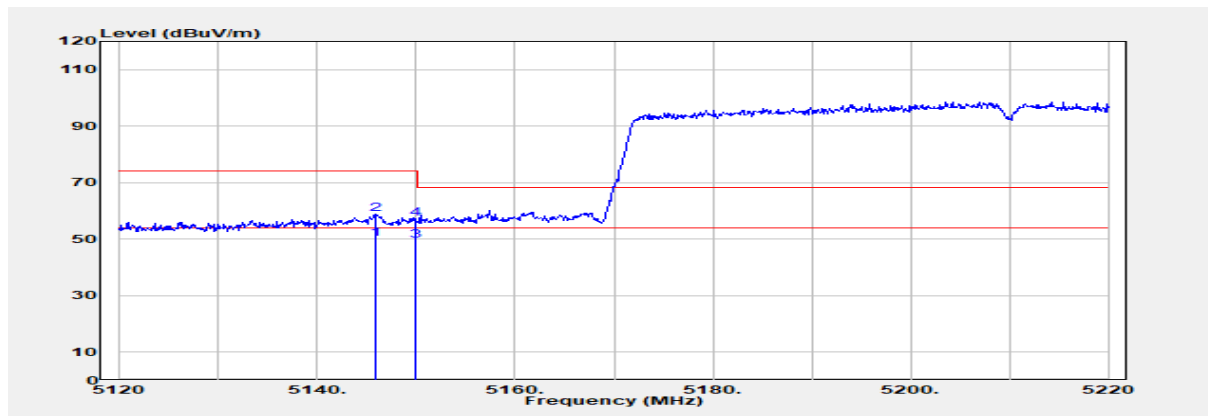
Temp./Humi. :23.8/69

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5145.900	Average	47.00	2.93	49.94	54.00	-4.06
5145.900	Peak	55.80	2.93	58.74	74.00	-15.26
5150.000	Average	46.48	3.03	49.51	54.00	-4.49
5150.000	Peak	54.34	3.03	57.37	74.00	-16.63

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac80 / Band 1

Test Date :2021-10-25

Test Frequency :5210 MHz

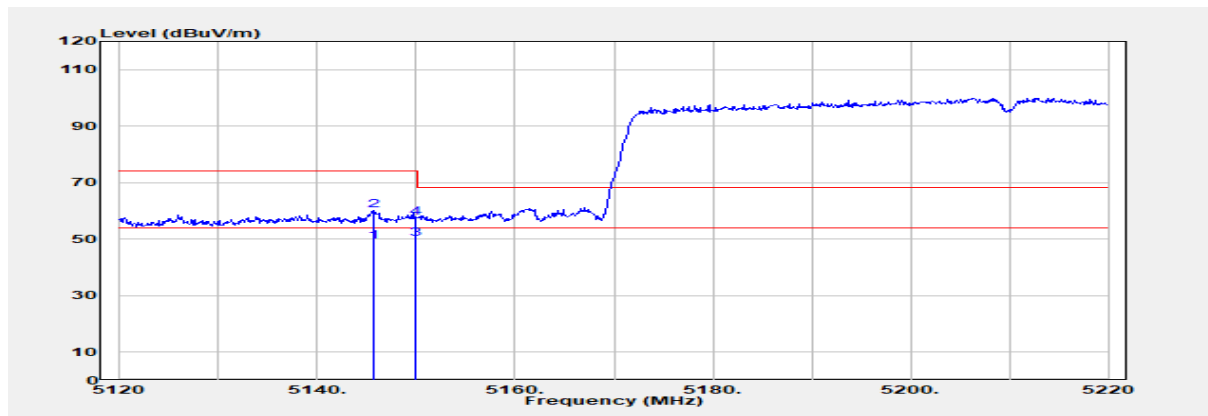
Temp./Humi. :23.8/69

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5145.600	Average	46.25	2.92	49.18	54.00	-4.82
5145.600	Peak	57.29	2.92	60.22	74.00	-13.78
5150.000	Average	46.96	3.03	49.99	54.00	-4.01
5150.000	Peak	54.65	3.03	57.68	74.00	-16.32

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac80 / Band 2

Test Date :2021-10-25

Test Frequency :5290 MHz

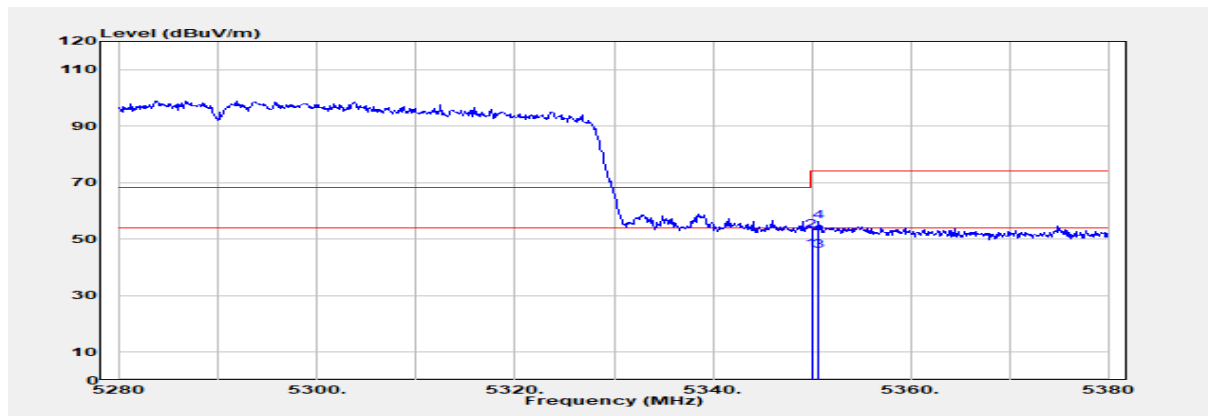
Temp./Humi. :23.8/69

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	43.96	2.21	46.17	54.00	-7.83
5350.000	Peak	50.84	2.21	53.05	74.00	-20.95
5350.700	Average	43.62	2.21	45.83	54.00	-8.17
5350.700	Peak	54.06	2.21	56.27	74.00	-17.73

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac80 / Band 2

Test Date :2021-10-25

Test Frequency :5290 MHz

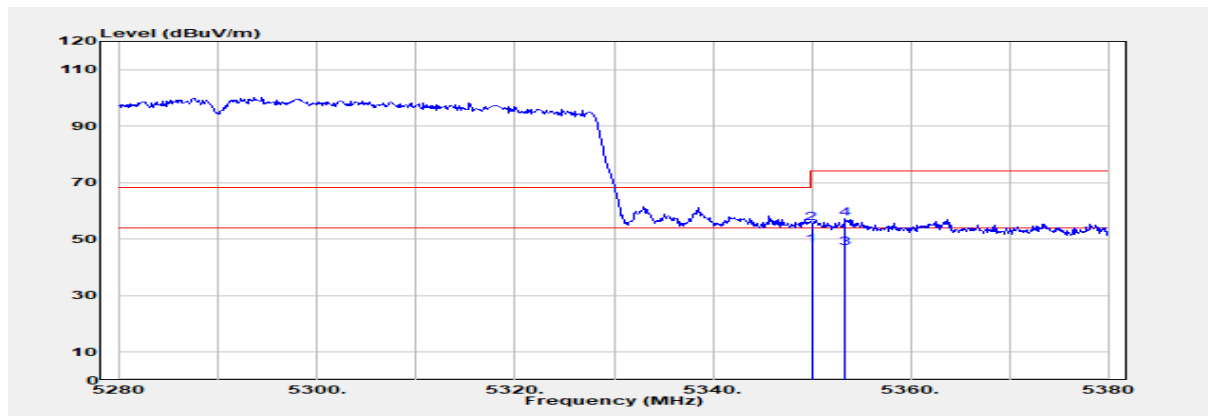
Temp./Humi. :23.8/69

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	45.75	2.21	47.96	54.00	-6.04
5350.000	Peak	53.32	2.21	55.53	74.00	-18.47
5353.400	Average	44.69	2.21	46.90	54.00	-7.10
5353.400	Peak	54.99	2.21	57.20	74.00	-16.80

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac80 / Band 3

Test Date :2021-10-21

Test Frequency :5530 MHz

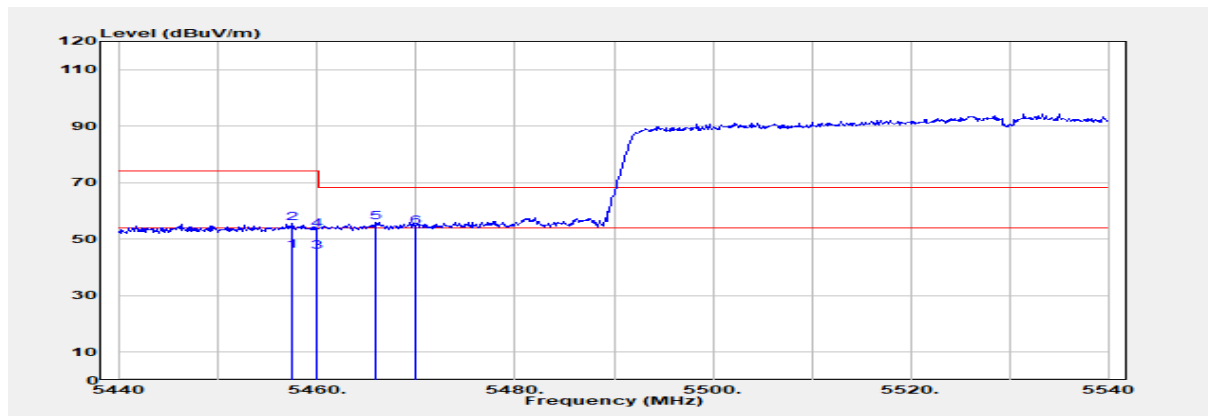
Temp./Humi. :24.5/65

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.500	Average	43.23	2.63	45.86	54.00	-8.14
5457.500	Peak	53.13	2.63	55.76	74.00	-18.24
5460.000	Average	42.88	2.64	45.52	54.00	-8.48
5460.000	Peak	50.78	2.64	53.42	74.00	-20.58
5465.900	Peak	53.25	2.72	55.96	68.20	-12.24
5470.000	Peak	51.65	2.77	54.42	68.20	-13.78

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac80 / Band 3

Test Date :2021-10-21

Test Frequency :5530 MHz

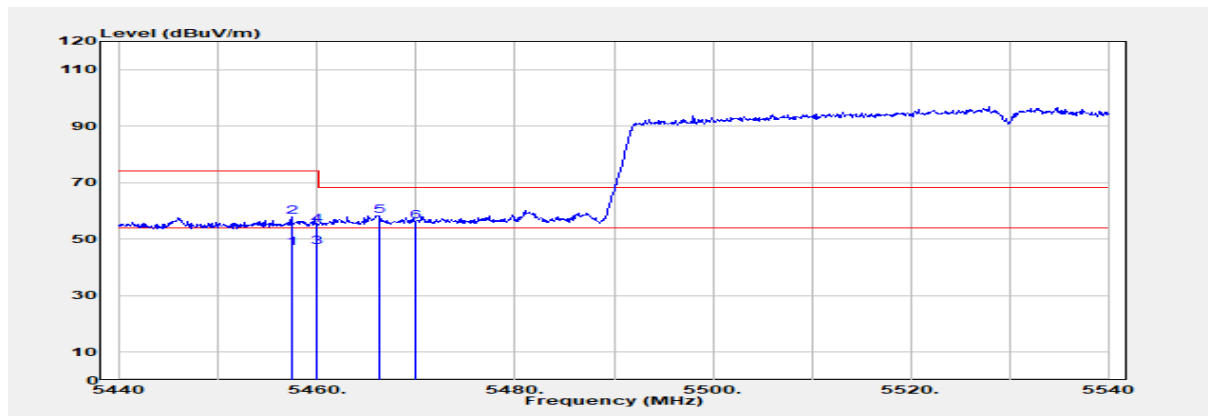
Temp./Humi. :24.5/65

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.400	Average	44.06	2.63	46.69	54.00	-7.31
5457.400	Peak	55.14	2.63	57.77	74.00	-16.23
5460.000	Average	44.36	2.64	47.00	54.00	-7.00
5460.000	Peak	52.36	2.64	55.00	74.00	-19.00
5466.300	Peak	55.62	2.72	58.34	68.20	-9.86
5470.000	Peak	53.38	2.77	56.15	68.20	-12.05

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac80 / Band 3

Test Date :2021-10-21

Test Frequency :5690 MHz

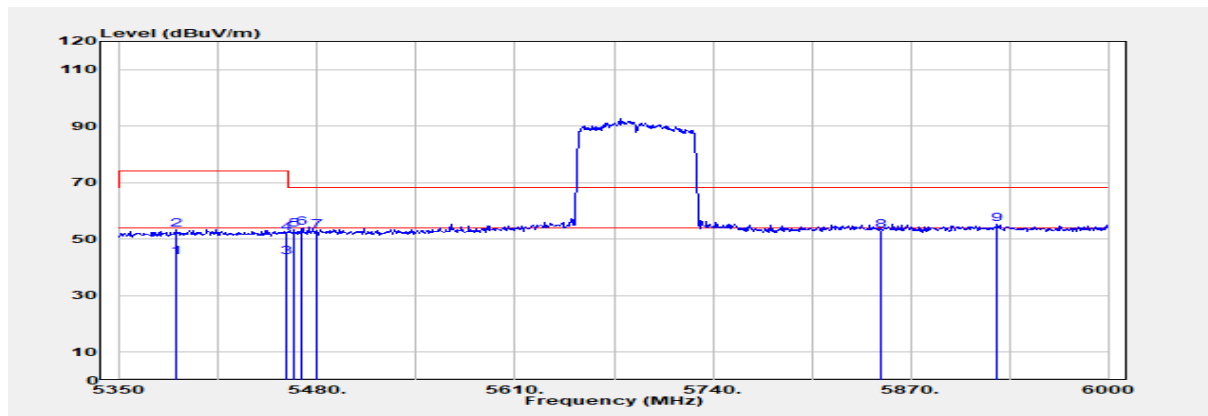
Temp./Humi. :24.5/65

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5387.050	Average	40.95	2.54	43.49	54.00	-10.51
5387.050	Peak	50.91	2.54	53.44	74.00	-20.56
5460.000	Average	40.92	2.64	43.56	54.00	-10.44
5460.000	Peak	49.51	2.64	52.15	74.00	-21.85
5465.050	Peak	50.75	2.71	53.45	68.20	-14.75
5470.000	Peak	51.08	2.77	53.85	68.20	-14.35
5480.000	Peak	50.35	2.76	53.11	68.20	-15.09
5850.000	Peak	48.84	4.31	53.15	68.20	-15.05
5927.200	Peak	51.06	4.35	55.41	68.20	-12.79

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac80 / Band 3

Test Date :2021-10-21

Test Frequency :5690 MHz

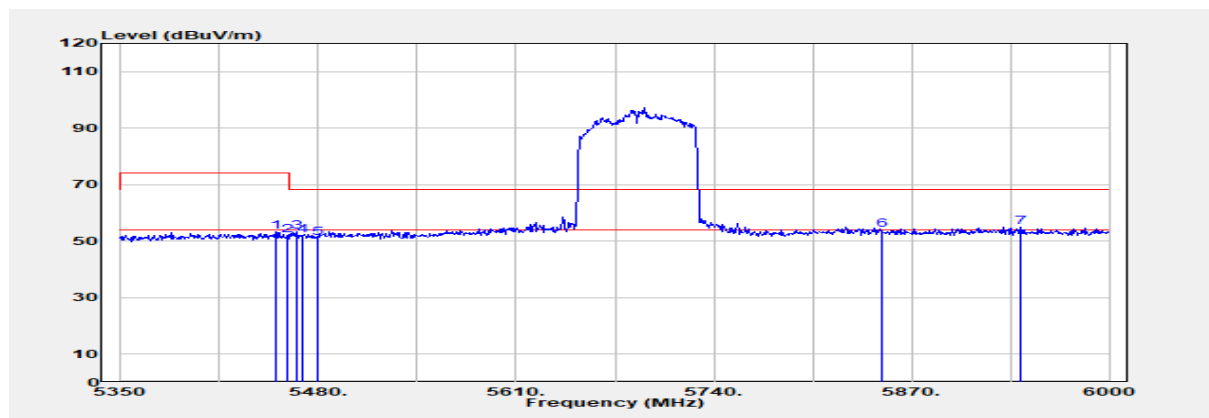
Temp./Humi. :24.5/65

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5451.400	Peak	50.65	2.61	53.26	74.00	-20.74
5460.000	Peak	49.52	2.64	52.16	74.00	-21.84
5465.700	Peak	50.51	2.71	53.23	68.20	-14.97
5470.000	Peak	49.41	2.77	52.18	68.20	-16.02
5480.000	Peak	48.15	2.76	50.91	68.20	-17.29
5850.000	Peak	49.64	4.31	53.95	68.20	-14.25
5942.150	Peak	51.00	4.11	55.11	68.20	-13.09

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-26

Test Frequency :5775 MHz

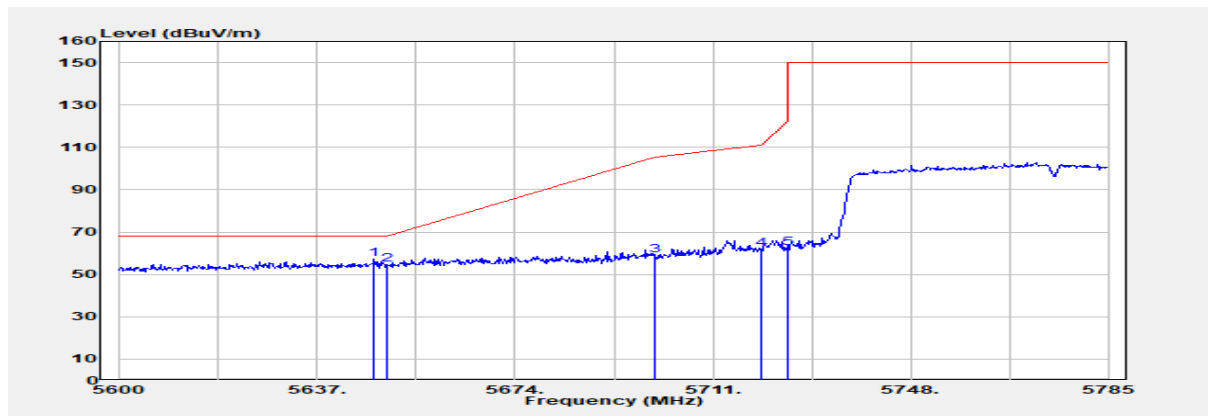
Temp./Humi. :24.4/67

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5647.545	Peak	53.55	3.55	57.10	68.20	-11.10
5650.000	Peak	50.93	3.60	54.53	68.20	-13.67
5700.000	Peak	55.74	3.31	59.05	105.20	-46.15
5720.000	Peak	57.83	4.17	62.00	110.80	-48.80
5725.000	Peak	58.29	4.21	62.50	122.20	-59.70

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-26

Test Frequency :5775 MHz

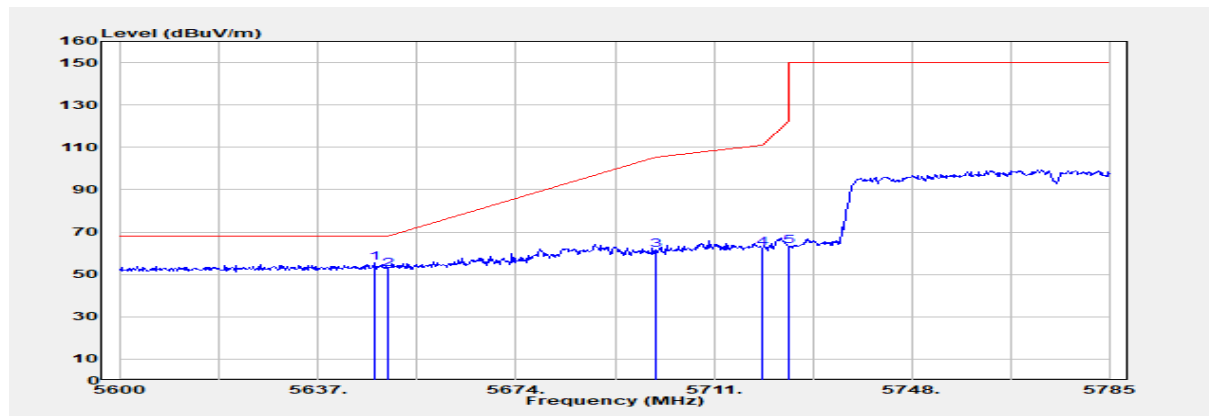
Temp./Humi. :24.4/67

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5647.545	Peak	51.80	3.55	55.36	68.20	-12.84
5650.000	Peak	48.99	3.60	52.59	68.20	-15.61
5700.000	Peak	58.05	3.31	61.36	105.20	-43.84
5720.000	Peak	58.49	4.17	62.66	110.80	-48.14
5725.000	Peak	59.18	4.21	63.39	122.20	-58.81

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-26

Test Frequency :5775 MHz

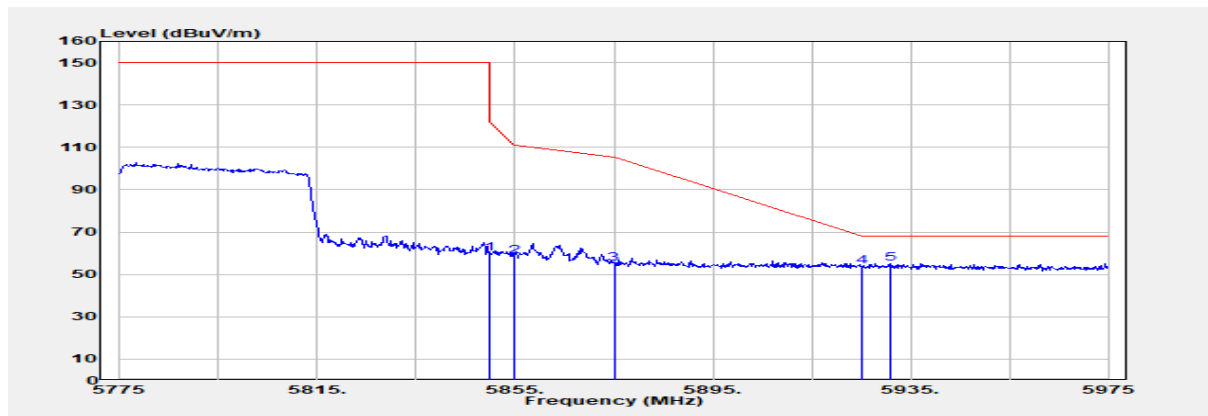
Temp./Humi. :24.4/67

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	55.35	4.31	59.66	122.20	-62.54
5855.000	Peak	54.37	4.21	58.58	110.80	-52.22
5875.000	Peak	51.10	3.90	55.00	105.20	-50.20
5925.000	Peak	49.55	4.36	53.90	68.20	-14.30
5931.000	Peak	50.62	4.32	54.94	68.20	-13.26

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-26

Test Frequency :5775 MHz

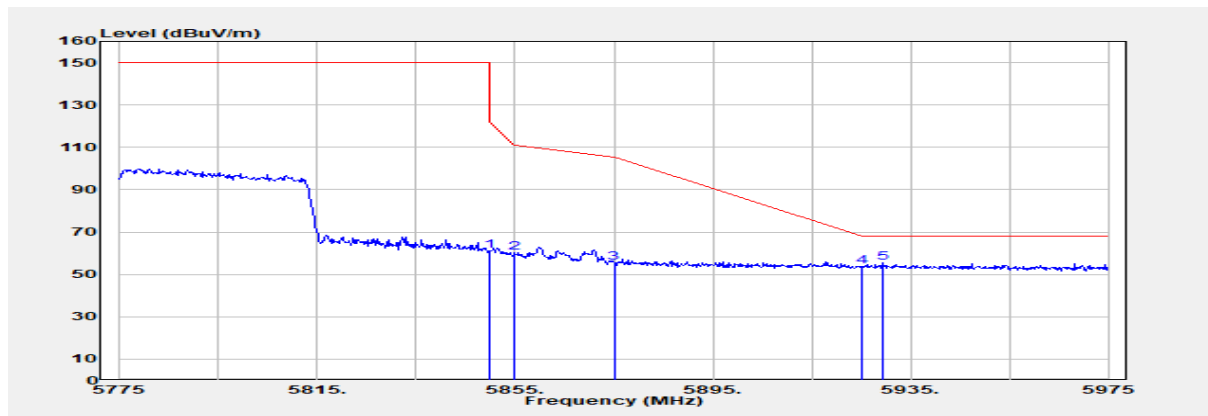
Temp./Humi. :24.4/67

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	56.61	4.31	60.92	122.20	-61.28
5855.000	Peak	56.16	4.21	60.37	110.80	-50.43
5875.000	Peak	51.68	3.90	55.58	105.20	-49.62
5925.000	Peak	49.26	4.36	53.62	68.20	-14.58
5929.400	Peak	51.15	4.34	55.49	68.20	-12.71

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax20 / Band 1

Test Date :2021-10-25

Test Frequency :5180 MHz

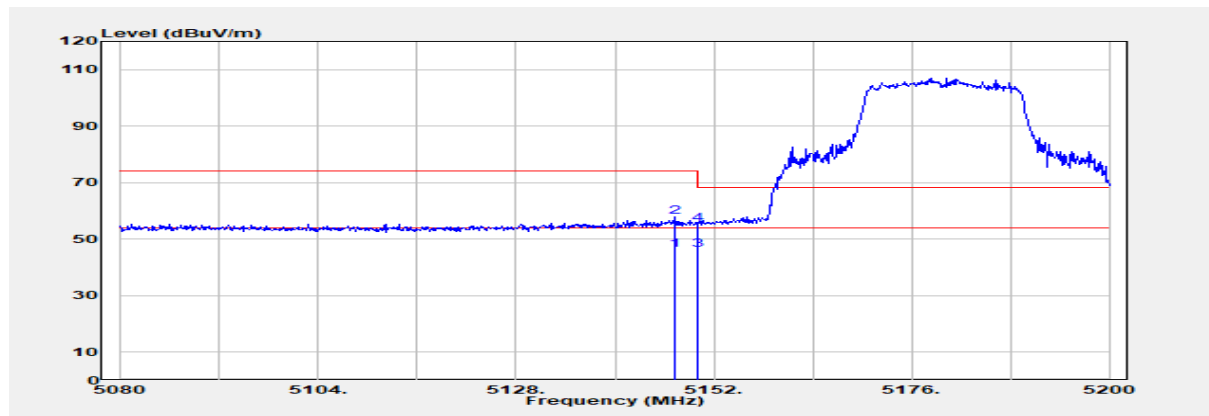
Temp./Humi. :23.8/69

Test Mode :BE CH LOW FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.320	Average	43.18	2.97	46.15	54.00	-7.85
5147.320	Peak	54.87	2.97	57.84	74.00	-16.16
5150.000	Average	43.19	3.03	46.22	54.00	-7.78
5150.000	Peak	52.28	3.03	55.31	74.00	-18.69

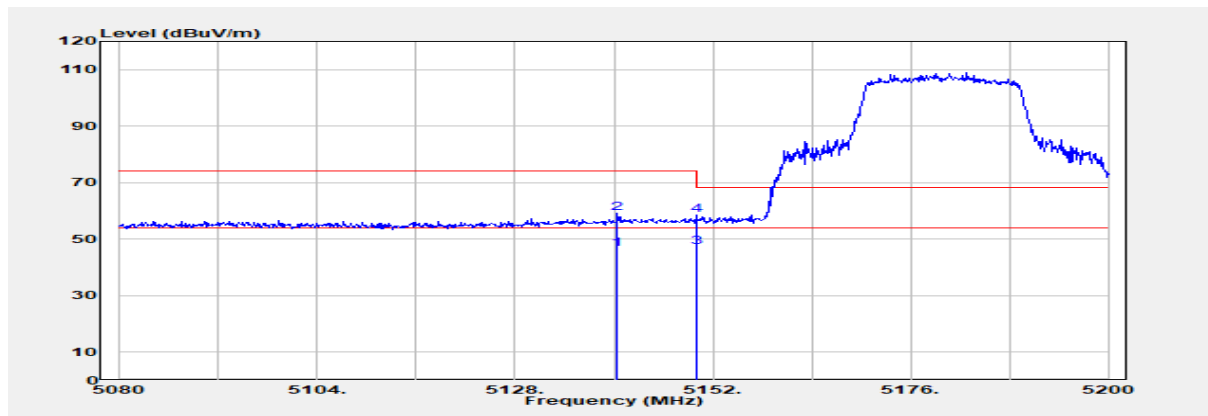
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-25
 Temp./Humi. :23.8/69
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5140.360	Average	43.82	2.80	46.62	54.00	-7.38
5140.360	Peak	56.29	2.80	59.09	74.00	-14.91
5150.000	Average	44.20	3.03	47.23	54.00	-6.78
5150.000	Peak	55.37	3.03	58.40	74.00	-15.60

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax20 / Band 2

Test Date :2021-10-25

Test Frequency :5320 MHz

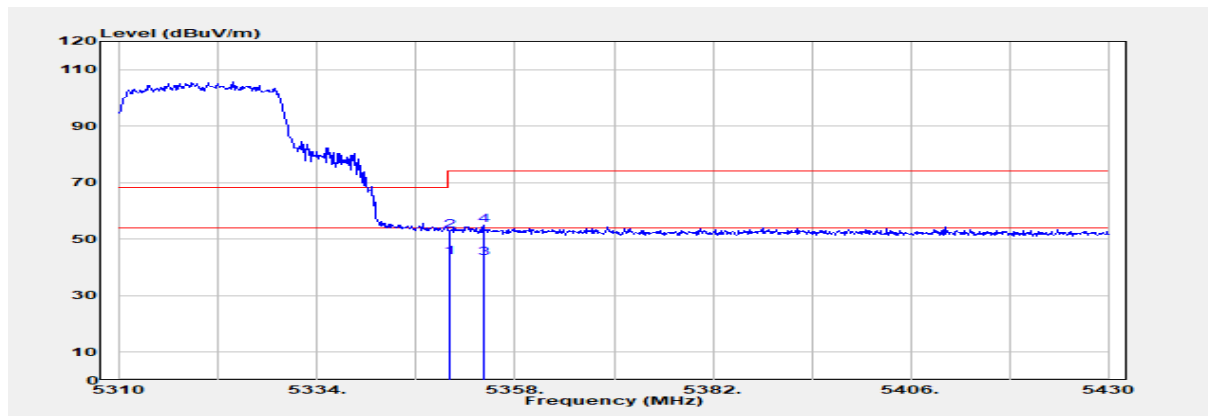
Temp./Humi. :23.8/69

Test Mode :BE CH HIGH FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	41.46	2.21	43.67	54.00	-10.34
5350.000	Peak	50.88	2.21	53.09	74.00	-20.91
5354.160	Average	41.09	2.21	43.31	54.00	-10.69
5354.160	Peak	52.84	2.21	55.06	74.00	-18.94

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax20 / Band 2

Test Date :2021-10-25

Test Frequency :5320 MHz

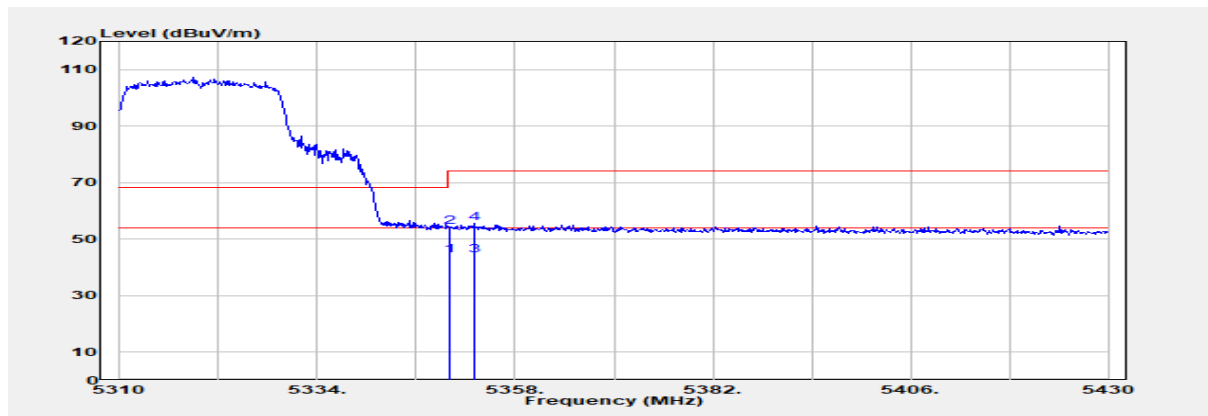
Temp./Humi. :23.8/69

Test Mode :BE CH HIGH FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	42.01	2.21	44.22	54.00	-9.78
5350.000	Peak	52.23	2.21	54.44	74.00	-19.56
5352.960	Average	42.10	2.21	44.31	54.00	-9.69
5352.960	Peak	53.42	2.21	55.63	74.00	-18.37

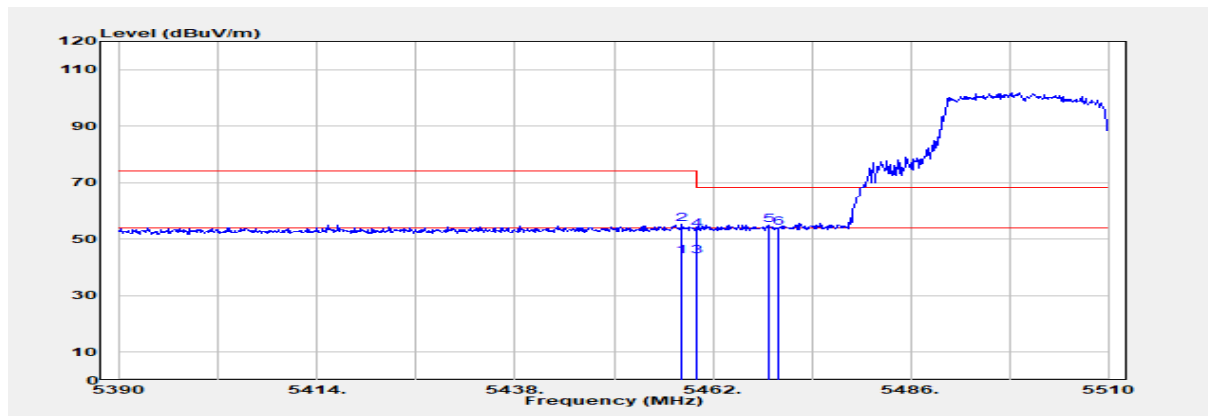
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax20 / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-21
 Temp./Humi. :24.5/65
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.280	Average	41.25	2.63	43.88	54.00	-10.12
5458.280	Peak	52.51	2.63	55.14	74.00	-18.86
5460.000	Average	41.35	2.64	43.99	54.00	-10.01
5460.000	Peak	50.65	2.64	53.29	74.00	-20.71
5468.720	Peak	52.26	2.75	55.01	68.20	-13.19
5470.000	Peak	51.10	2.77	53.87	68.20	-14.33

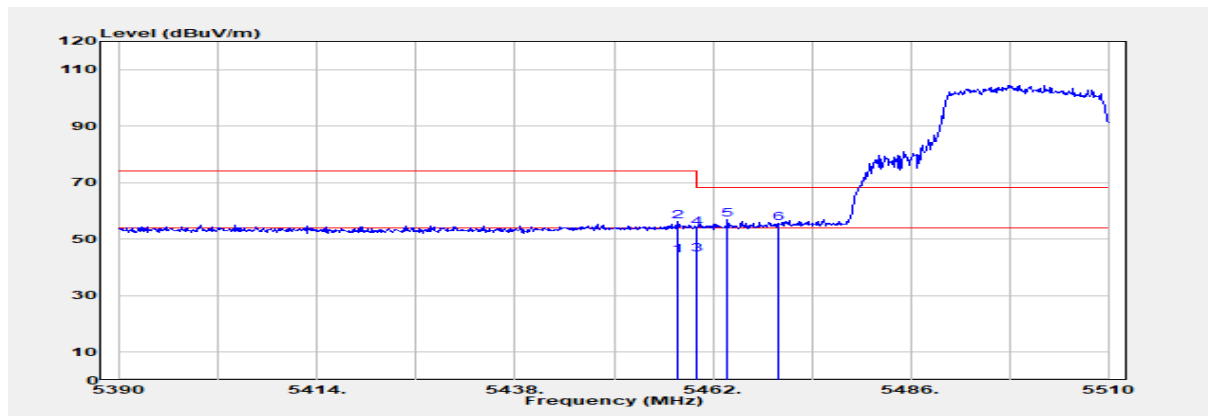
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax20 / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-21
 Temp./Humi. :24.5/65
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.680	Average	41.66	2.63	44.29	54.00	-9.71
5457.680	Peak	53.69	2.63	56.32	74.00	-17.68
5460.000	Average	41.90	2.64	44.54	54.00	-9.46
5460.000	Peak	51.41	2.64	54.05	74.00	-19.95
5463.800	Peak	54.36	2.69	57.05	68.20	-11.15
5470.000	Peak	52.87	2.77	55.64	68.20	-12.56

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax20 / Band 3

Test Date :2021-10-21

Test Frequency :5700 MHz

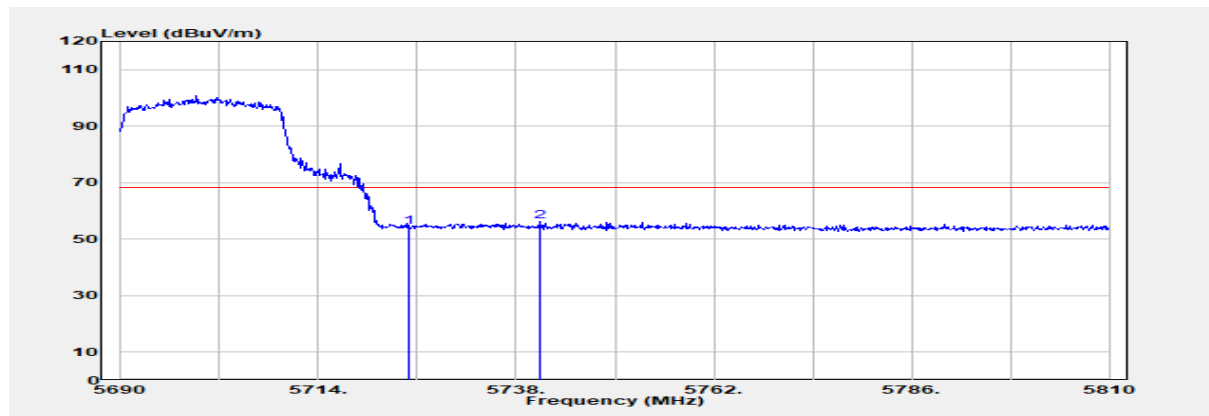
Temp./Humi. :24.5/65

Test Mode :BE CH HIGH FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	50.15	4.21	54.36	68.20	-13.84
5741.000	Peak	51.91	4.34	56.26	68.20	-11.94

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax20 / Band 3

Test Date :2021-10-21

Test Frequency :5700 MHz

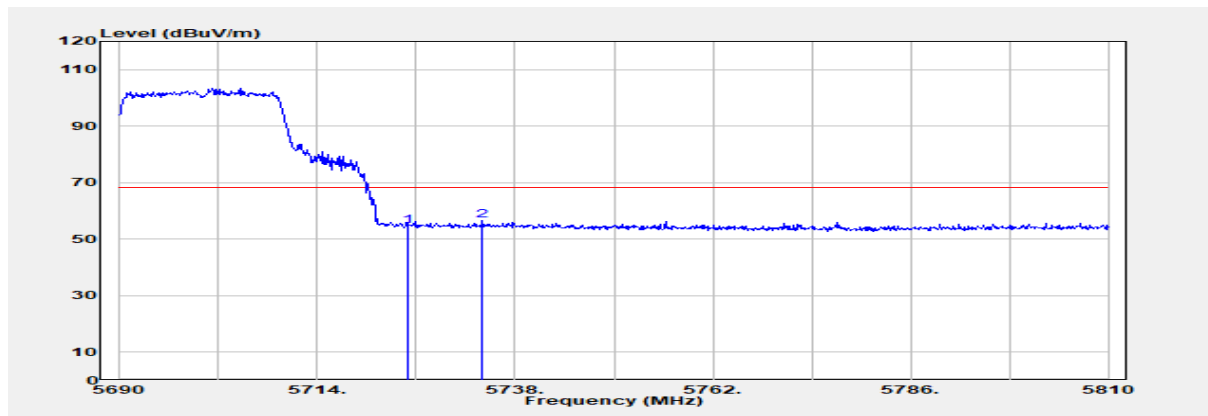
Temp./Humi. :24.5/65

Test Mode :BE CH HIGH FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	50.57	4.21	54.78	68.20	-13.42
5734.040	Peak	52.16	4.29	56.45	68.20	-11.75

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax20 / Band 3

Test Date :2021-10-21

Test Frequency :5720 MHz

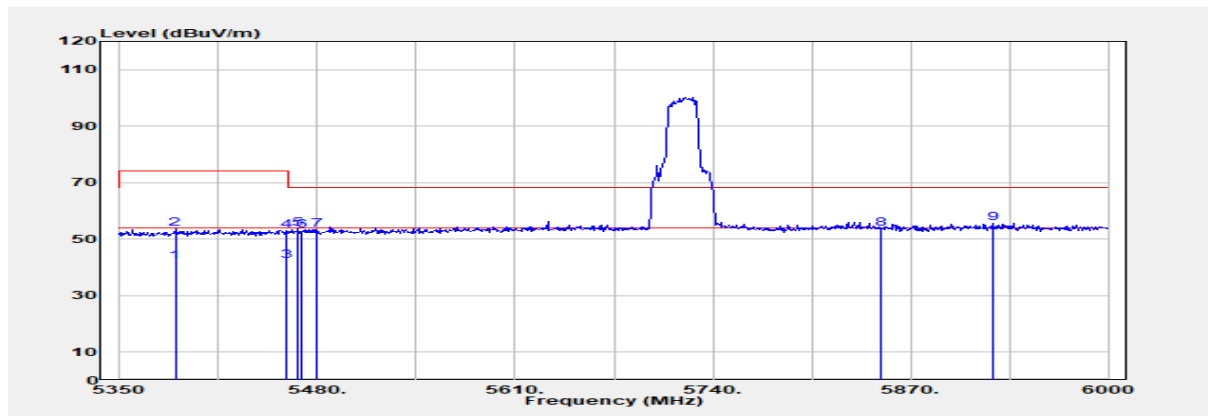
Temp./Humi. :24.5/65

Test Mode :BE CH MID FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5386.400	Average	39.42	2.52	41.94	54.00	-12.06
5386.400	Peak	51.29	2.52	53.81	74.00	-20.19
5460.000	Average	39.75	2.64	42.39	54.00	-11.61
5460.000	Peak	50.43	2.64	53.07	74.00	-20.93
5467.000	Peak	50.88	2.73	53.61	68.20	-14.59
5470.000	Peak	50.34	2.77	53.11	68.20	-15.09
5480.000	Peak	50.45	2.76	53.21	68.20	-14.99
5850.000	Peak	49.30	4.31	53.61	68.20	-14.59
5923.950	Peak	51.26	4.36	55.62	68.20	-12.58

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax20 / Band 3

Test Date :2021-10-21

Test Frequency :5720 MHz

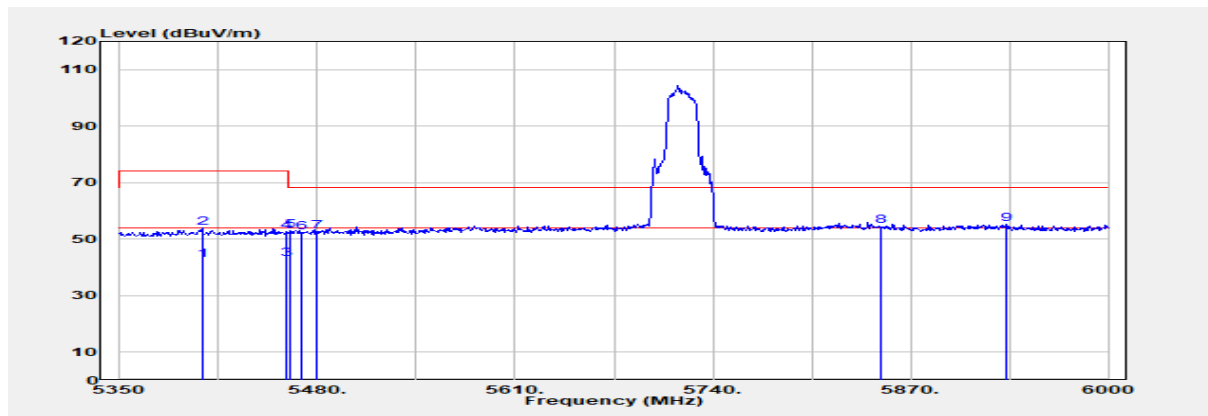
Temp./Humi. :24.5/65

Test Mode :BE CH MID FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5403.950	Average	39.98	2.56	42.54	54.00	-11.46
5403.950	Peak	51.41	2.56	53.97	74.00	-20.03
5460.000	Average	40.18	2.64	42.82	54.00	-11.18
5460.000	Peak	49.98	2.64	52.62	74.00	-21.38
5462.450	Peak	50.45	2.67	53.12	68.20	-15.08
5470.000	Peak	49.57	2.77	52.34	68.20	-15.86
5480.000	Peak	49.89	2.76	52.65	68.20	-15.55
5850.000	Peak	50.23	4.31	54.54	68.20	-13.66
5933.050	Peak	51.03	4.28	55.30	68.20	-12.90

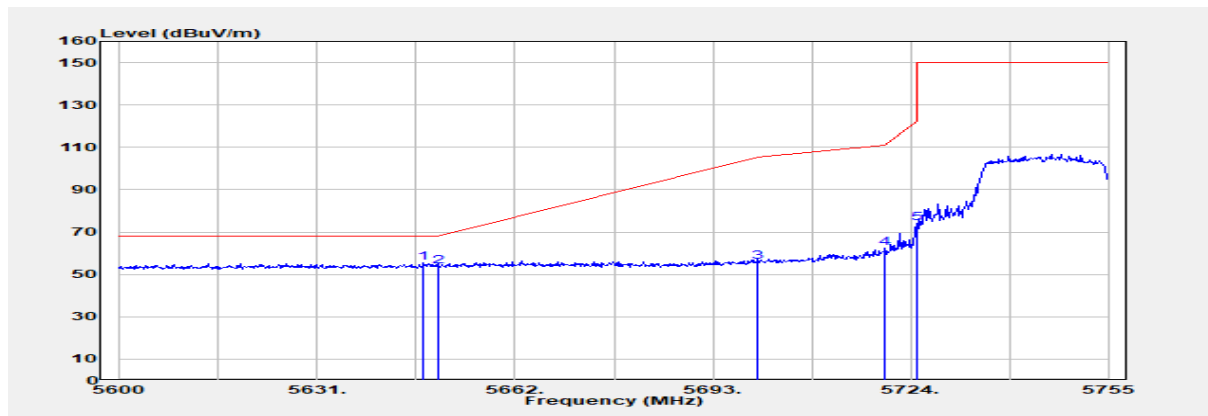
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-21
 Temp./Humi. :24.5/65
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5647.585	Peak	52.13	3.55	55.68	68.20	-12.52
5650.000	Peak	50.08	3.60	53.68	68.20	-14.52
5700.000	Peak	52.42	3.31	55.73	105.20	-49.47
5720.000	Peak	58.46	4.17	62.63	110.80	-48.17
5725.000	Peak	69.85	4.21	74.06	122.20	-48.14

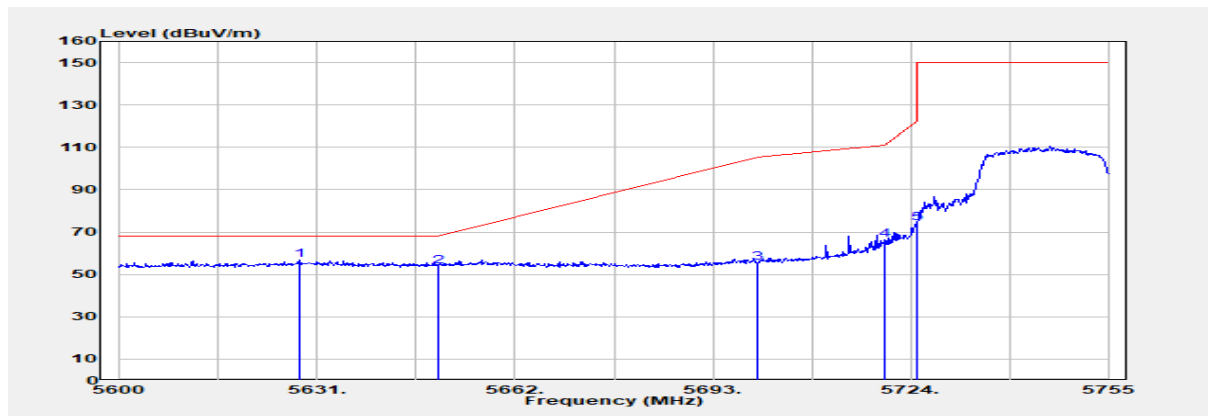
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-21
 Temp./Humi. :24.5/65
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5628.210	Peak	53.17	3.48	56.65	68.20	-11.55
5650.000	Peak	50.17	3.60	53.77	68.20	-14.43
5700.000	Peak	52.32	3.31	55.63	105.20	-49.57
5720.000	Peak	62.21	4.17	66.38	110.80	-44.42
5725.000	Peak	69.94	4.21	74.15	122.20	-48.05

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax20 / Band 4

Test Date :2021-10-21

Test Frequency :5825 MHz

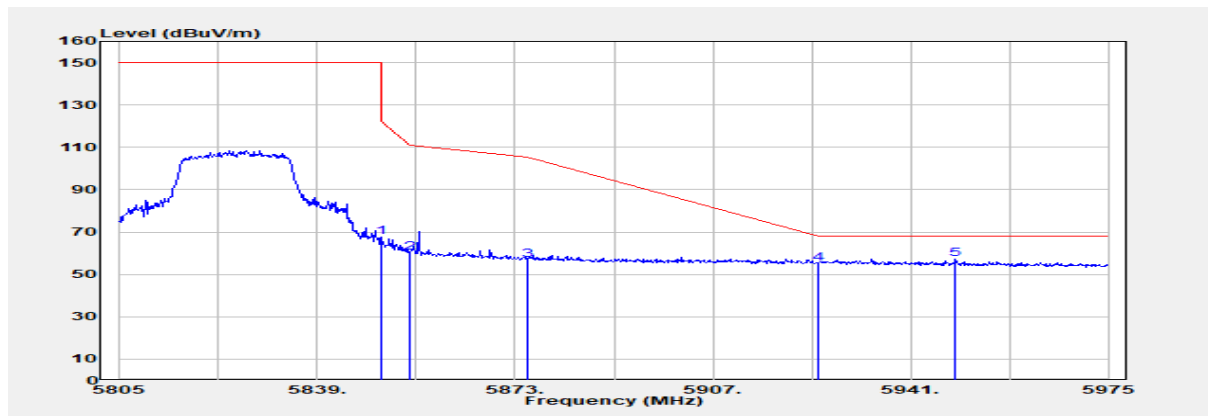
Temp./Humi. :24.5/65

Test Mode :BE CH HIGH FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	63.26	4.31	67.57	122.20	-54.63
5855.000	Peak	56.06	4.21	60.27	110.80	-50.53
5875.000	Peak	52.92	3.90	56.82	105.20	-48.38
5925.000	Peak	50.83	4.36	55.19	68.20	-13.01
5948.820	Peak	53.17	4.05	57.22	68.20	-10.98

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax20 / Band 4

Test Date :2021-10-21

Test Frequency :5825 MHz

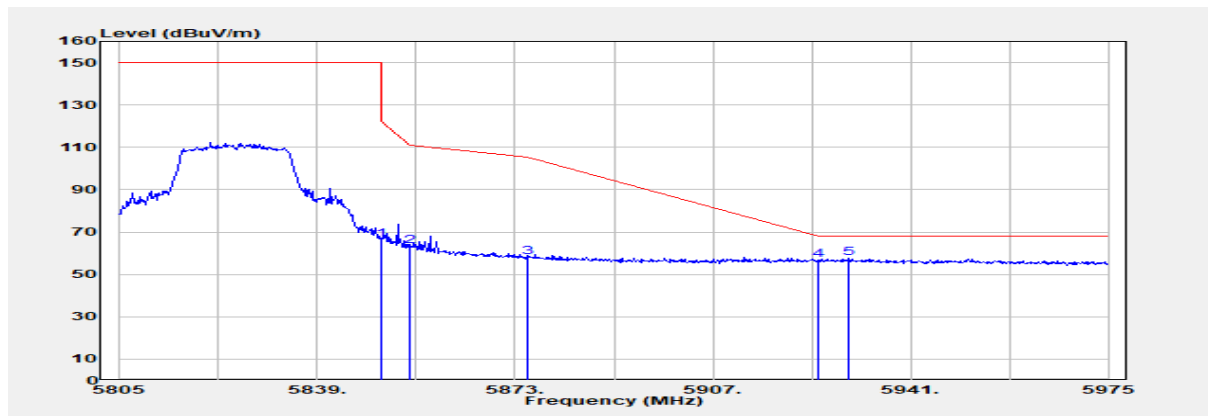
Temp./Humi. :24.5/65

Test Mode :BE CH HIGH FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	61.82	4.31	66.13	122.20	-56.07
5855.000	Peak	59.04	4.21	63.25	110.80	-47.55
5875.000	Peak	54.22	3.90	58.12	105.20	-47.08
5925.000	Peak	52.35	4.36	56.71	68.20	-11.49
5930.460	Peak	53.18	4.33	57.51	68.20	-10.69

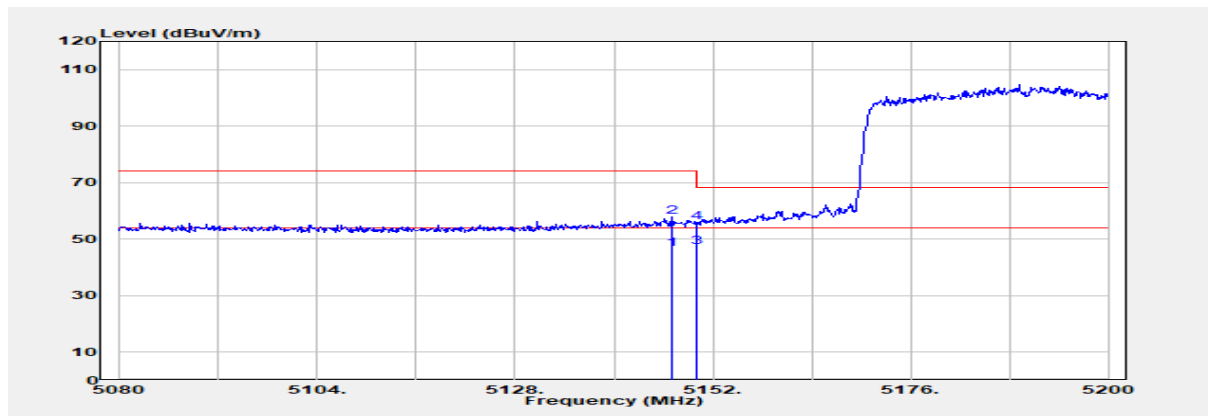
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax40 / Band 1
 Test Frequency :5190 MHz
 Test Mode :BE CH LOW FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-25
 Temp./Humi. :23.8/69
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.960	Average	43.55	2.96	46.51	54.00	-7.49
5146.960	Peak	55.04	2.96	58.00	74.00	-16.00
5150.000	Average	43.96	3.03	46.99	54.00	-7.01
5150.000	Peak	53.00	3.03	56.03	74.00	-17.97

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax40 / Band 1

Test Date :2021-10-25

Test Frequency :5190 MHz

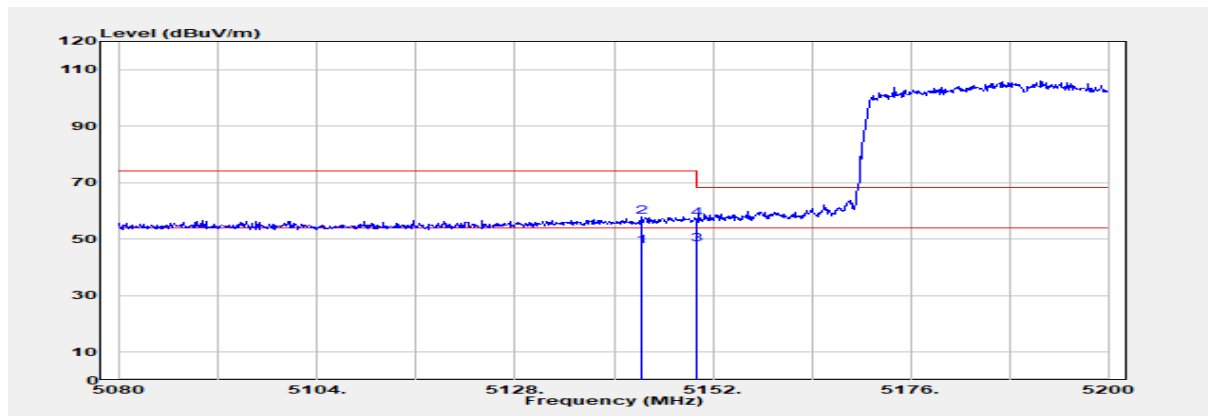
Temp./Humi. :23.8/69

Test Mode :BE CH LOW FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5143.360	Average	44.66	2.87	47.53	54.00	-6.47
5143.360	Peak	55.17	2.87	58.04	74.00	-15.96
5150.000	Average	45.12	3.03	48.15	54.00	-5.85
5150.000	Peak	54.29	3.03	57.32	74.00	-16.68

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax40 / Band 2

Test Date :2021-10-25

Test Frequency :5310 MHz

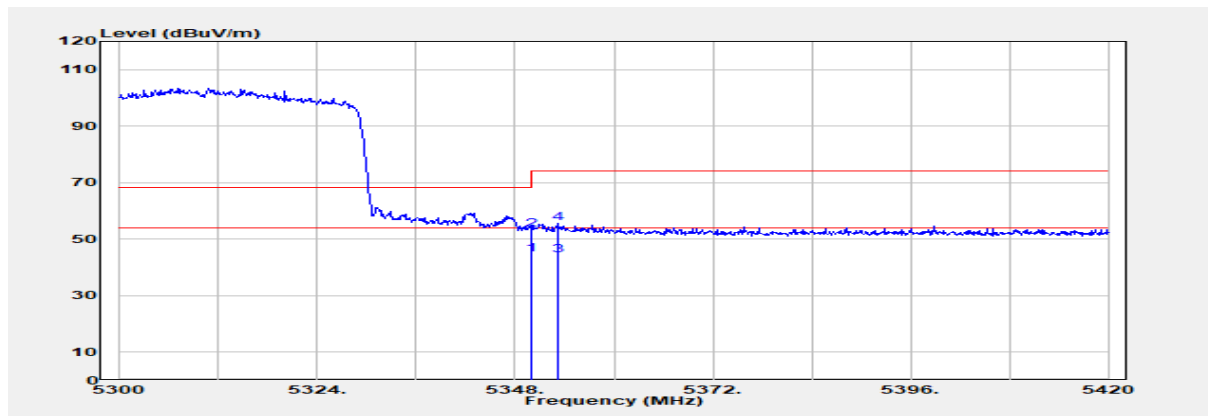
Temp./Humi. :23.8/69

Test Mode :BE CH HIGH FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	42.28	2.21	44.49	54.00	-9.51
5350.000	Peak	51.14	2.21	53.35	74.00	-20.65
5353.160	Average	41.86	2.21	44.07	54.00	-9.93
5353.160	Peak	53.28	2.21	55.49	74.00	-18.51

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax40 / Band 2

Test Date :2021-10-25

Test Frequency :5310 MHz

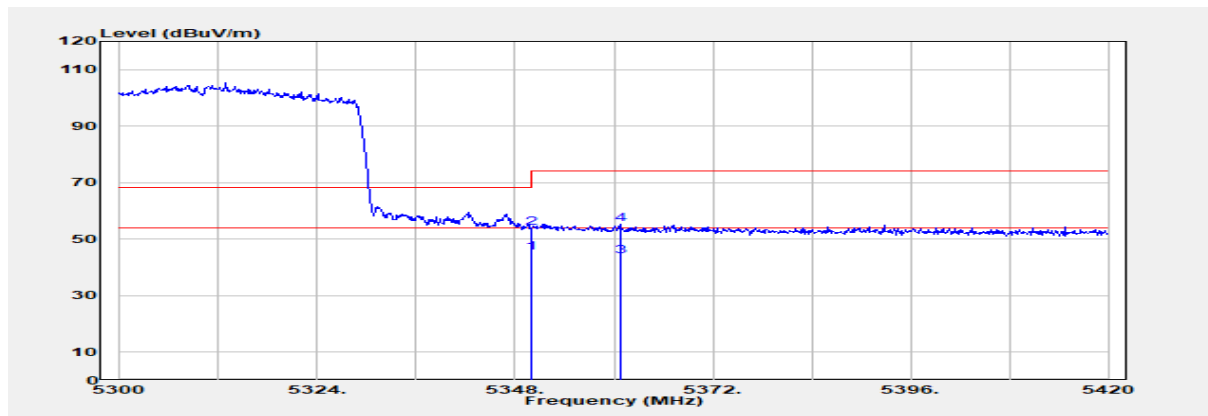
Temp./Humi. :23.8/69

Test Mode :BE CH HIGH FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	43.06	2.21	45.27	54.00	-8.73
5350.000	Peak	51.77	2.21	53.98	74.00	-20.02
5360.720	Average	41.82	2.23	44.05	54.00	-9.95
5360.720	Peak	53.05	2.23	55.28	74.00	-18.72

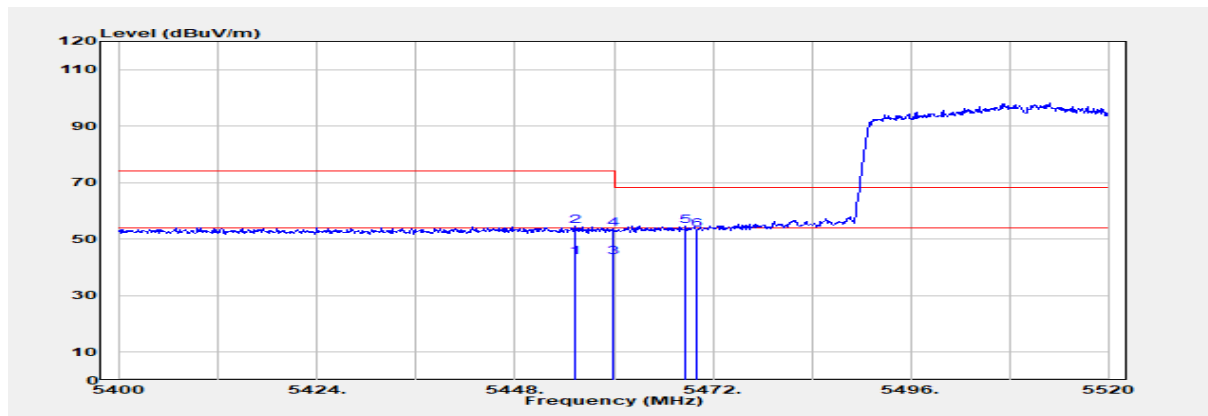
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax40 / Band 3
 Test Frequency :5510 MHz
 Test Mode :BE CH LOW FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-21
 Temp./Humi. :24.5/65
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5455.320	Average	40.89	2.62	43.51	54.00	-10.49
5455.320	Peak	52.16	2.62	54.78	74.00	-19.22
5460.000	Average	40.96	2.64	43.60	54.00	-10.40
5460.000	Peak	50.86	2.64	53.50	74.00	-20.50
5468.760	Peak	51.93	2.75	54.69	68.20	-13.51
5470.000	Peak	50.71	2.77	53.48	68.20	-14.72

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax40 / Band 3

Test Date :2021-10-21

Test Frequency :5510 MHz

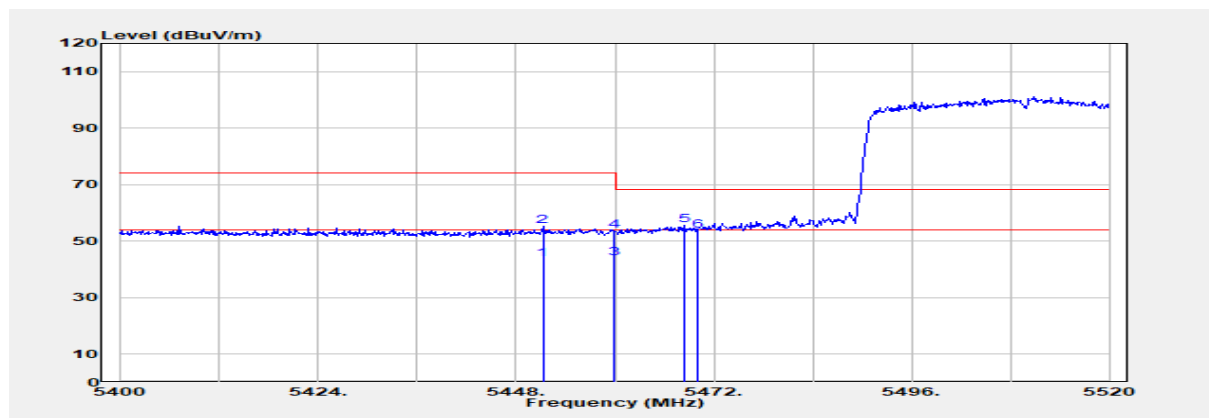
Temp./Humi. :24.5/65

Test Mode :BE CH LOW FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5451.240	Average	41.06	2.60	43.67	54.00	-10.33
5451.240	Peak	52.83	2.60	55.44	74.00	-18.56
5460.000	Average	41.40	2.64	44.04	54.00	-9.96
5460.000	Peak	51.01	2.64	53.65	74.00	-20.35
5468.520	Peak	52.73	2.75	55.48	68.20	-12.72
5470.000	Peak	51.03	2.77	53.80	68.20	-14.40

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax40 / Band 3

Test Date :2021-10-21

Test Frequency :5670 MHz

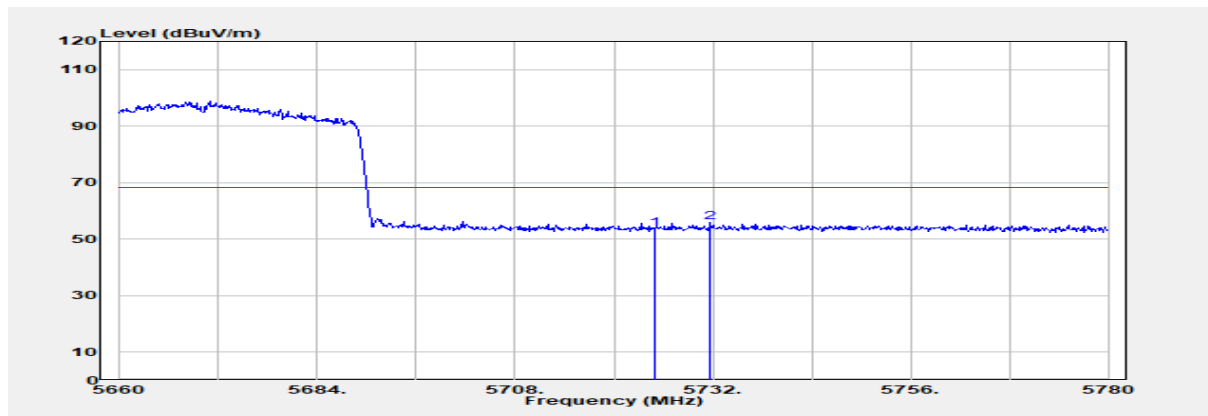
Temp./Humi. :24.5/65

Test Mode :BE CH HIGH FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	49.46	4.21	53.67	68.20	-14.53
5731.760	Peak	51.61	4.27	55.88	68.20	-12.32

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax40 / Band 3

Test Date :2021-10-21

Test Frequency :5670 MHz

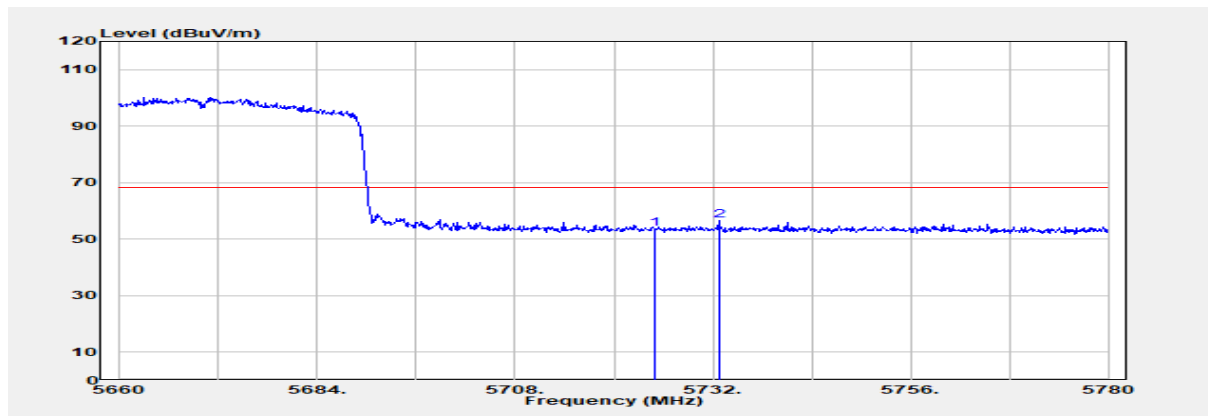
Temp./Humi. :24.5/65

Test Mode :BE CH HIGH FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	49.35	4.21	53.56	68.20	-14.64
5732.720	Peak	52.37	4.27	56.65	68.20	-11.55

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax40 / Band 3

Test Date :2021-10-21

Test Frequency :5710 MHz

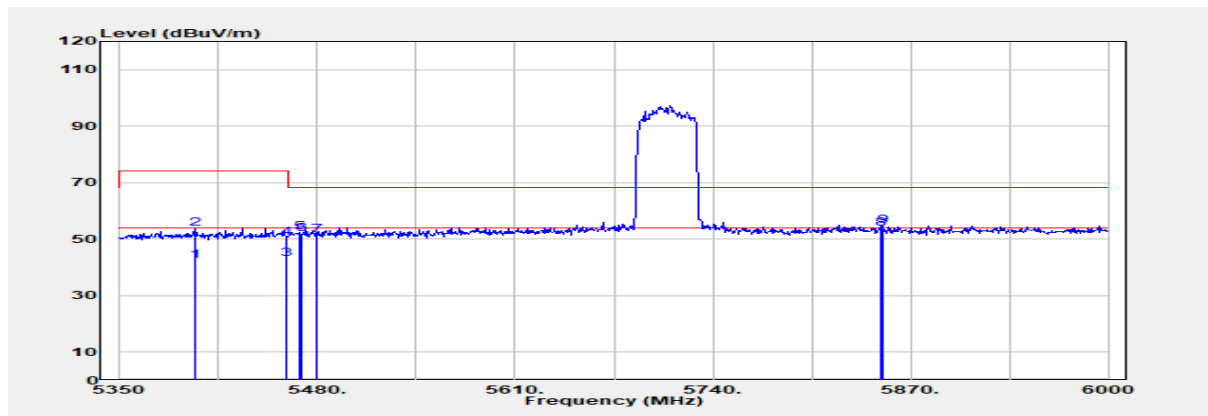
Temp./Humi. :24.5/65

Test Mode :BE CH MID FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5399.400	Average	39.81	2.54	42.36	54.00	-11.64
5399.400	Peak	51.09	2.54	53.64	74.00	-20.36
5460.000	Average	40.13	2.64	42.77	54.00	-11.23
5460.000	Peak	47.83	2.64	50.47	74.00	-23.53
5467.650	Peak	49.73	2.74	52.47	68.20	-15.73
5470.000	Peak	48.99	2.77	51.76	68.20	-16.44
5480.000	Peak	48.70	2.76	51.46	68.20	-16.74
5850.000	Peak	49.39	4.31	53.70	68.20	-14.50
5851.800	Peak	50.52	4.27	54.79	68.20	-13.41

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax40 / Band 3

Test Date :2021-10-21

Test Frequency :5710 MHz

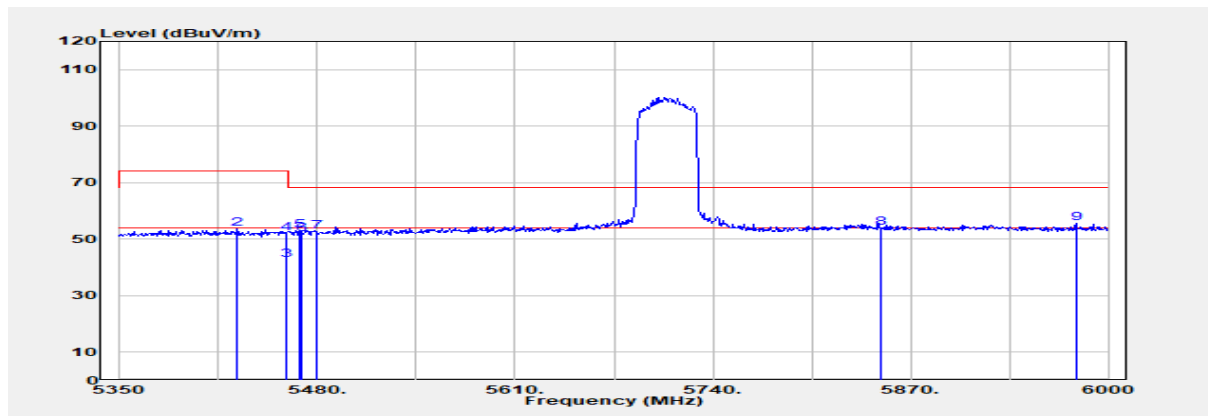
Temp./Humi. :24.5/65

Test Mode :BE CH MID FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
0.000	Average	39.83	2.40	42.23	54.00	-11.77
5427.350	Peak	51.34	2.40	53.74	74.00	-20.26
5460.000	Average	40.04	2.64	42.68	54.00	-11.32
5460.000	Peak	49.54	2.64	52.18	74.00	-21.82
5467.650	Peak	50.35	2.74	53.09	68.20	-15.11
5470.000	Peak	48.90	2.77	51.67	68.20	-16.53
5480.000	Peak	49.99	2.76	52.75	68.20	-15.45
5850.000	Peak	49.72	4.31	54.03	68.20	-14.17
5979.200	Peak	51.73	3.90	55.63	68.20	-12.57

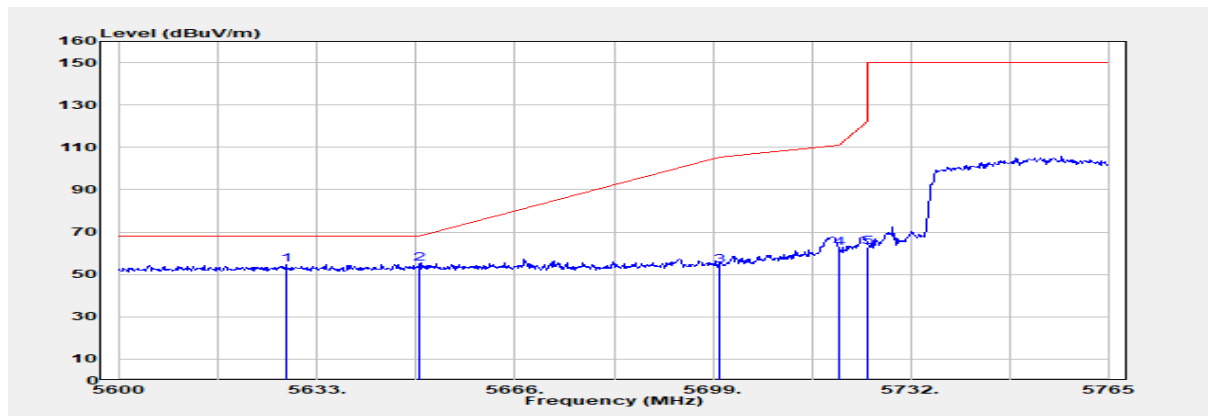
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax40 / Band 4
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-26
 Temp./Humi. :24.4/67
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5627.720	Peak	51.36	3.48	54.84	68.20	-13.36
5650.000	Peak	51.64	3.60	55.24	68.20	-12.96
5700.000	Peak	50.69	3.31	54.00	105.20	-51.20
5720.000	Peak	58.30	4.17	62.47	110.80	-48.33
5725.000	Peak	58.71	4.21	62.92	122.20	-59.28

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax40 / Band 4

Test Date :2021-10-26

Test Frequency :5755 MHz

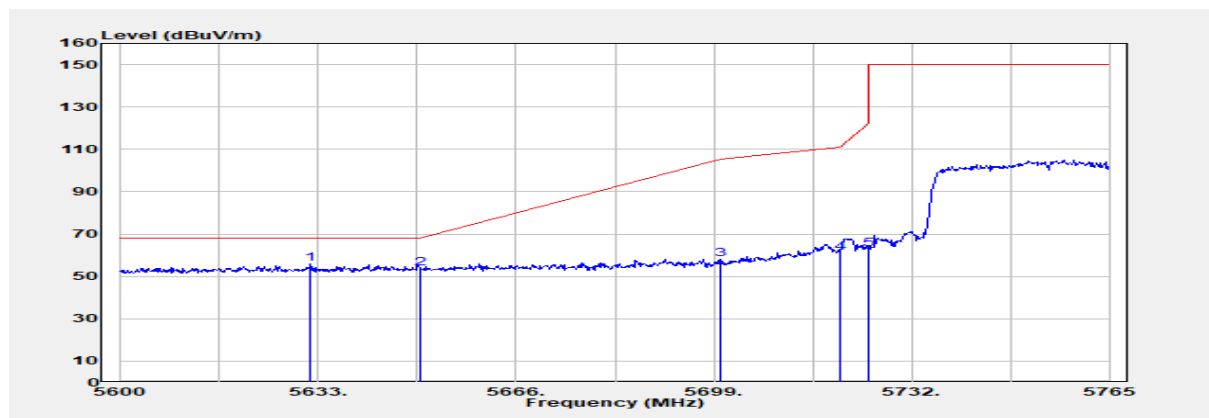
Temp./Humi. :24.4/67

Test Mode :BE CH LOW FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5631.680	Peak	52.39	3.48	55.86	68.20	-12.34
5650.000	Peak	50.27	3.60	53.87	68.20	-14.33
5700.000	Peak	54.78	3.31	58.09	105.20	-47.11
5720.000	Peak	57.13	4.17	61.30	110.80	-49.50
5725.000	Peak	58.87	4.21	63.08	122.20	-59.12

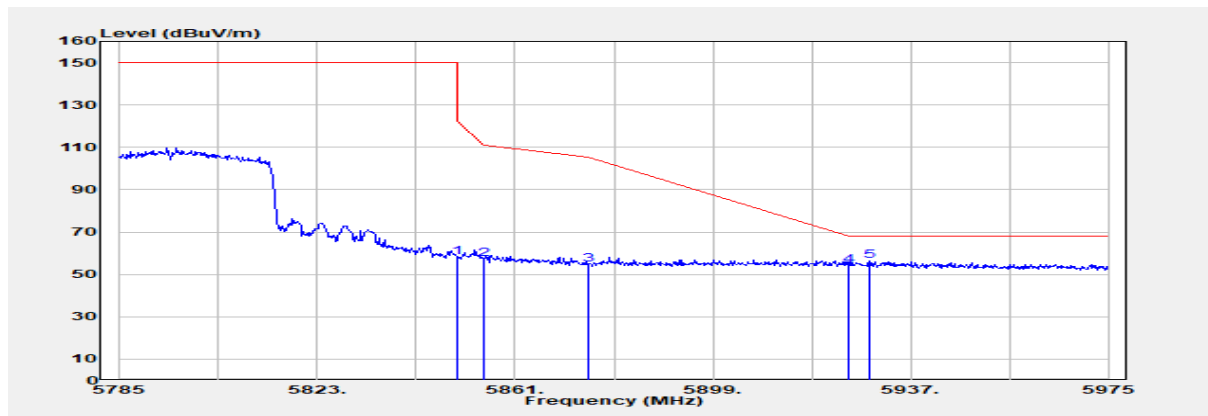
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax40 / Band 4
 Test Frequency :5795 MHz
 Test Mode :BE CH HIGH FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-26
 Temp./Humi. :24.4/67
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	53.64	4.31	57.95	122.20	-64.25
5855.000	Peak	52.94	4.21	57.15	110.80	-53.65
5875.000	Peak	50.74	3.90	54.64	105.20	-50.56
5925.000	Peak	49.79	4.36	54.15	68.20	-14.05
5929.020	Peak	52.12	4.34	56.47	68.20	-11.73

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax40 / Band 4

Test Date :2021-10-26

Test Frequency :5795 MHz

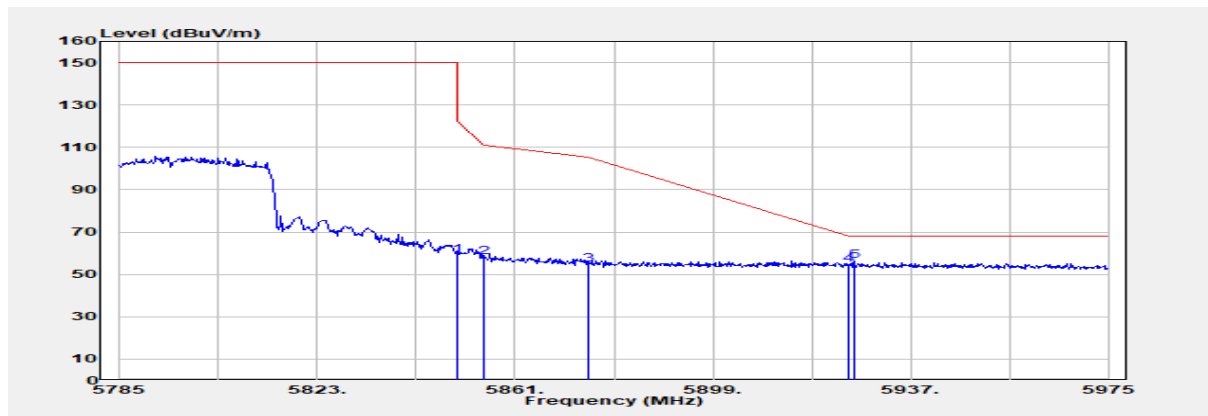
Temp./Humi. :24.4/67

Test Mode :BE CH HIGH FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	54.69	4.31	59.00	122.20	-63.20
5855.000	Peak	53.72	4.21	57.92	110.80	-52.88
5875.000	Peak	50.79	3.90	54.69	105.20	-50.51
5925.000	Peak	50.32	4.36	54.68	68.20	-13.52
5926.170	Peak	51.80	4.35	56.15	68.20	-12.05

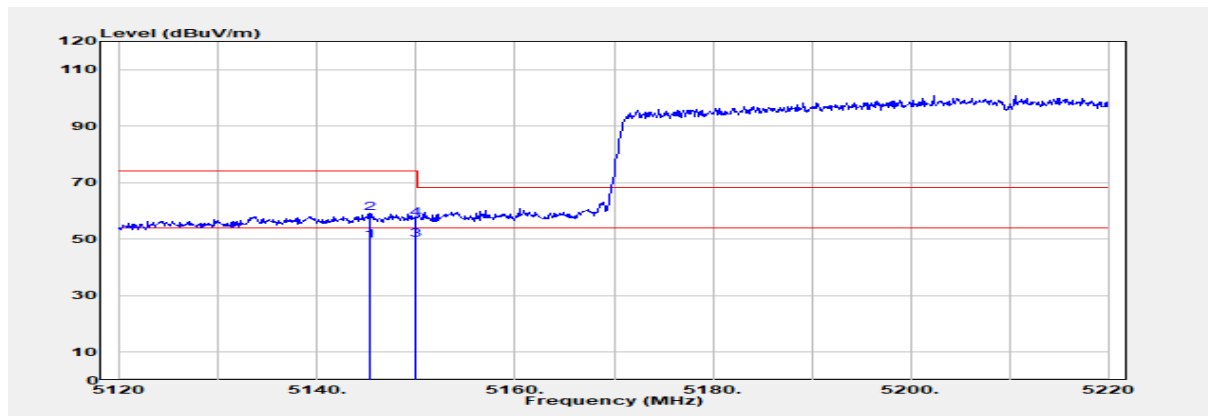
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax80 / Band 1
 Test Frequency :5210 MHz
 Test Mode :BE CH LOW FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-25
 Temp./Humi. :23.8/69
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5145.300	Average	46.60	2.92	49.51	54.00	-4.49
5145.300	Peak	56.12	2.92	59.04	74.00	-14.96
5150.000	Average	46.64	3.03	49.67	54.00	-4.33
5150.000	Peak	54.08	3.03	57.11	74.00	-16.89

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax80 / Band 1

Test Date :2021-10-25

Test Frequency :5210 MHz

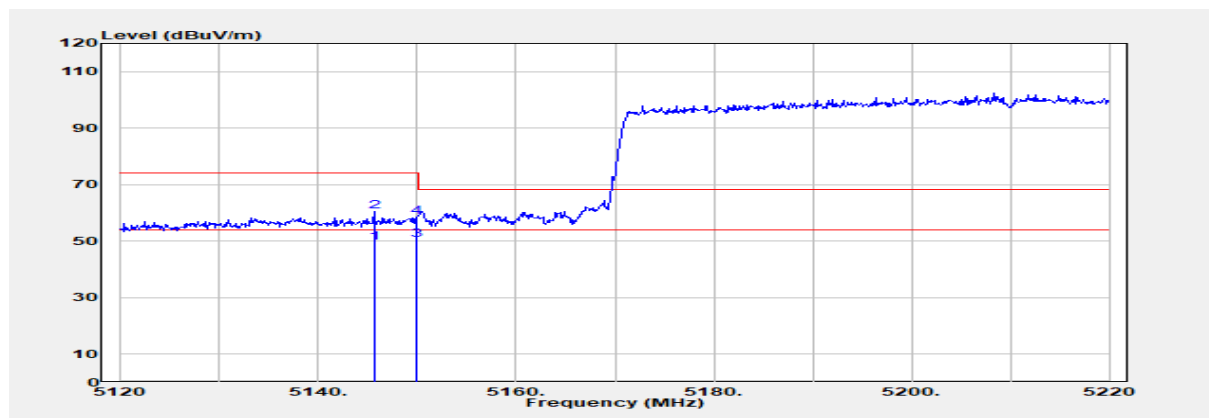
Temp./Humi. :23.8/69

Test Mode :BE CH LOW FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5145.600	Average	46.36	2.92	49.29	54.00	-4.71
5145.600	Peak	57.54	2.92	60.46	74.00	-13.54
5150.000	Average	47.53	3.03	50.56	54.00	-3.44
5150.000	Peak	55.56	3.03	58.59	74.00	-15.41

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax80 / Band 2

Test Date :2021-10-25

Test Frequency :5290 MHz

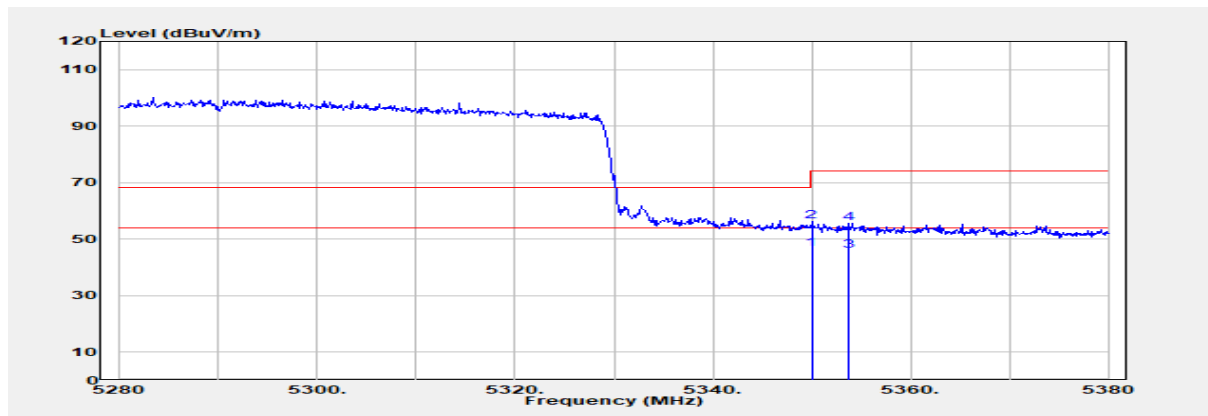
Temp./Humi. :23.8/69

Test Mode :BE CH HIGH FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	44.43	2.21	46.64	54.00	-7.36
5350.000	Peak	54.17	2.21	56.38	74.00	-17.62
5353.800	Average	43.69	2.21	45.91	54.00	-8.09
5353.800	Peak	53.52	2.21	55.73	74.00	-18.27

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax80 / Band 2

Test Date :2021-10-25

Test Frequency :5290 MHz

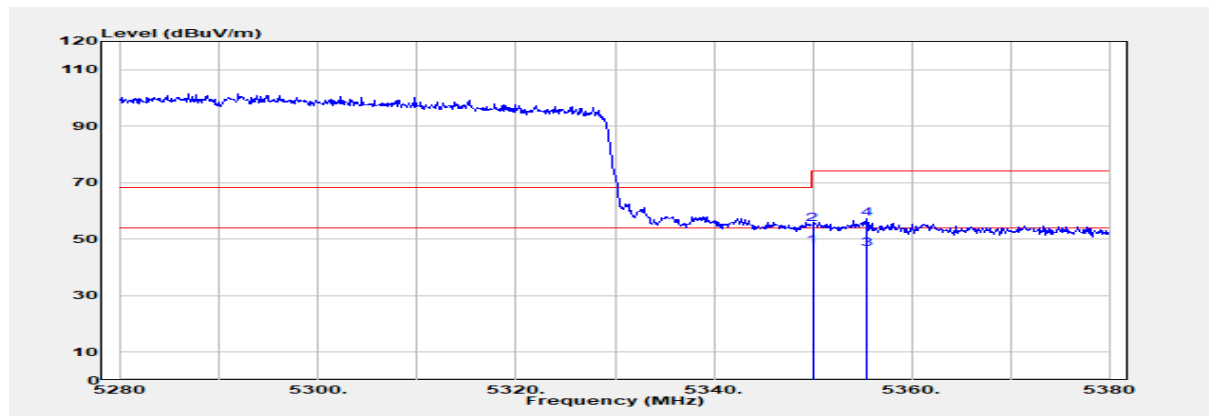
Temp./Humi. :23.8/69

Test Mode :BE CH HIGH FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	45.33	2.21	47.54	54.00	-6.46
5350.000	Peak	52.94	2.21	55.15	74.00	-18.85
5355.500	Average	44.29	2.22	46.51	54.00	-7.49
5355.500	Peak	54.90	2.22	57.11	74.00	-16.89

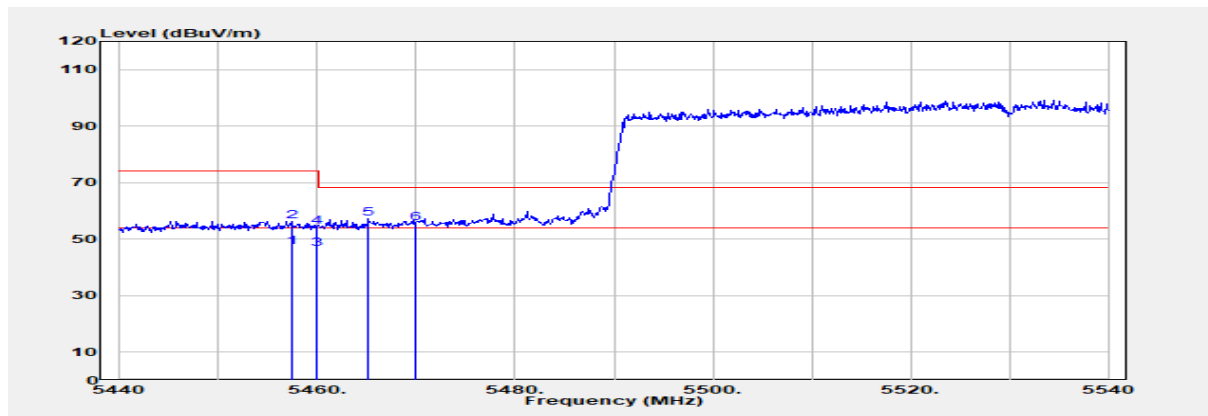
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax80 / Band 3
 Test Frequency :5530 MHz
 Test Mode :BE CH LOW FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-22
 Temp./Humi. :23.9/68
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.400	Average	44.39	2.63	47.02	54.00	-6.98
5457.400	Peak	53.77	2.63	56.40	74.00	-17.60
5460.000	Average	43.88	2.64	46.52	54.00	-7.48
5460.000	Peak	51.63	2.64	54.27	74.00	-19.73
5465.200	Peak	54.50	2.71	57.21	68.20	-10.99
5470.000	Peak	52.76	2.77	55.53	68.20	-12.67

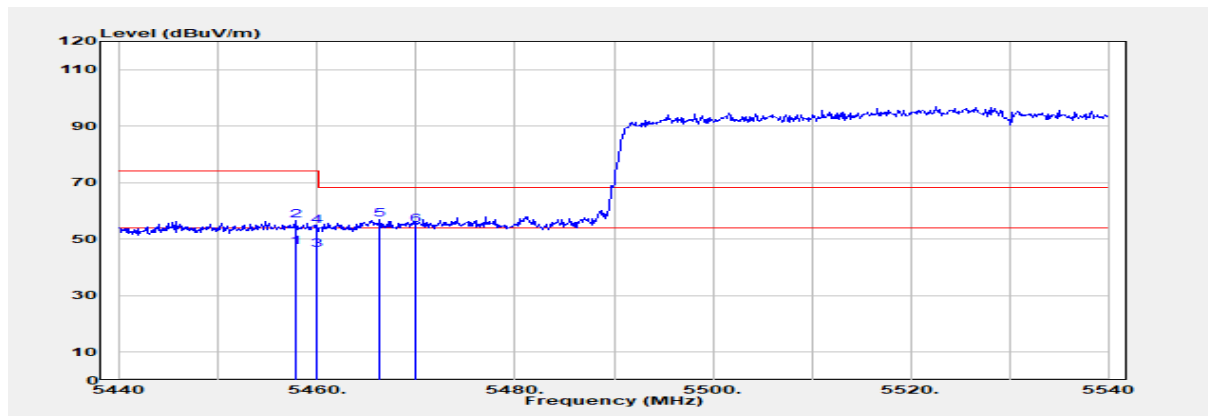
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax80 / Band 3
 Test Frequency :5530 MHz
 Test Mode :BE CH LOW FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-22
 Temp./Humi. :23.9/68
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.800	Average	44.68	2.63	47.31	54.00	-6.69
5457.800	Peak	53.97	2.63	56.60	74.00	-17.40
5460.000	Average	43.66	2.64	46.30	54.00	-7.70
5460.000	Peak	51.96	2.64	54.60	74.00	-19.40
5466.300	Peak	54.22	2.72	56.94	68.20	-11.26
5470.000	Peak	52.22	2.77	54.99	68.20	-13.21

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax80 / Band 3

Test Date :2021-10-22

Test Frequency :5690 MHz

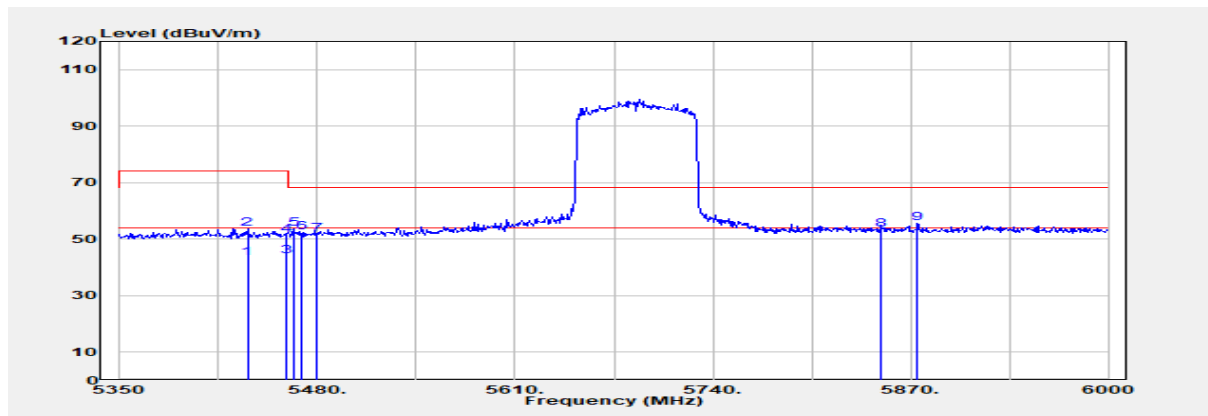
Temp./Humi. :23.9/68

Test Mode :BE CH HIGH FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5433.850	Average	40.87	2.37	43.23	54.00	-10.77
5433.850	Peak	51.43	2.37	53.80	74.00	-20.20
5460.000	Average	41.22	2.64	43.86	54.00	-10.14
5460.000	Peak	48.65	2.64	51.29	74.00	-22.71
5464.400	Peak	50.86	2.70	53.56	68.20	-14.64
5470.000	Peak	49.66	2.77	52.43	68.20	-15.77
5480.000	Peak	48.95	2.76	51.71	68.20	-16.49
5850.000	Peak	49.06	4.31	53.37	68.20	-14.83
5874.550	Peak	51.54	3.91	55.45	68.20	-12.75

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax80 / Band 3

Test Date :2021-10-22

Test Frequency :5690 MHz

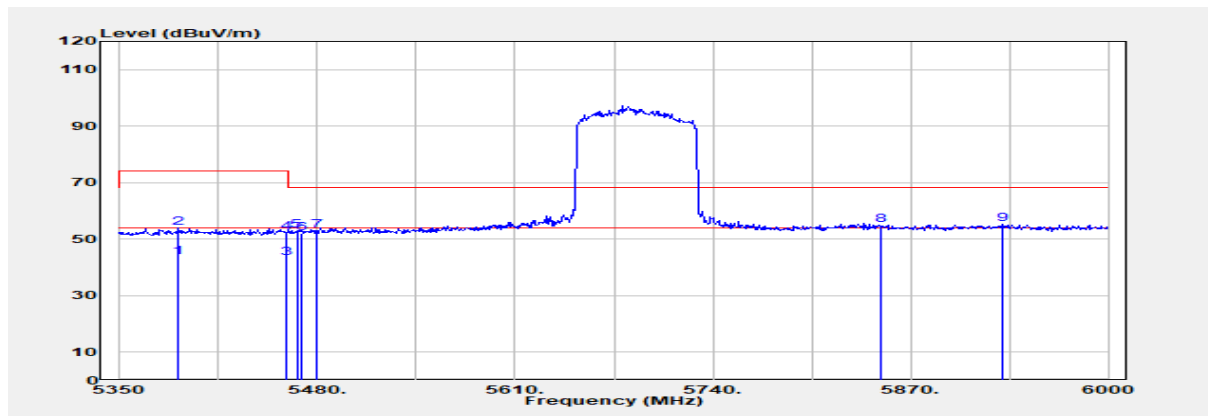
Temp./Humi. :23.9/68

Test Mode :BE CH HIGH FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5388.350	Average	40.85	2.57	43.42	54.00	-10.58
5388.350	Peak	51.27	2.57	53.85	74.00	-20.15
5460.000	Average	40.69	2.64	43.33	54.00	-10.67
5460.000	Peak	49.78	2.64	52.42	74.00	-21.58
5466.350	Peak	50.42	2.72	53.15	68.20	-15.05
5470.000	Peak	49.32	2.77	52.09	68.20	-16.11
5480.000	Peak	50.23	2.76	52.99	68.20	-15.21
5850.000	Peak	50.77	4.31	55.08	68.20	-13.12
5931.100	Peak	50.82	4.32	55.14	68.20	-13.06

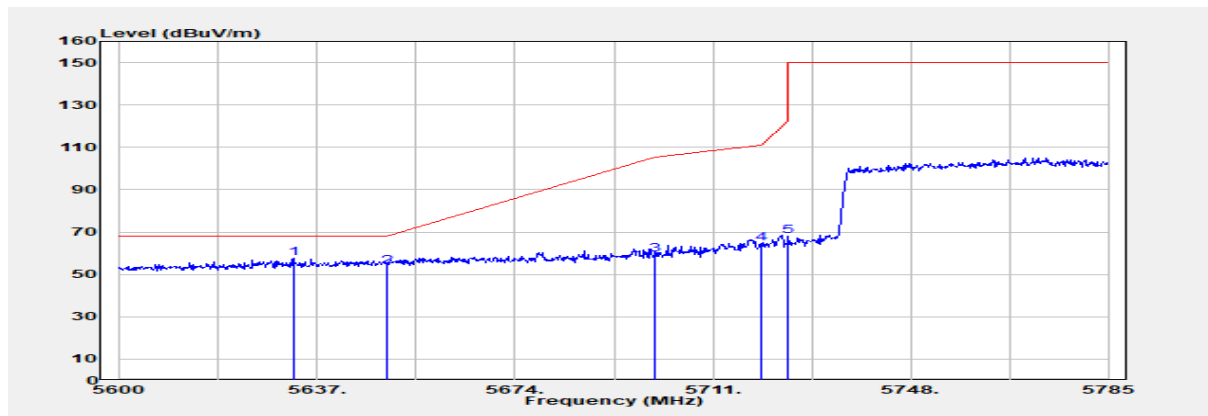
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH LOW FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-26
 Temp./Humi. :24.4/67
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5632.560	Peak	54.02	3.47	57.49	68.20	-10.71
5650.000	Peak	50.33	3.60	53.93	68.20	-14.27
5700.000	Peak	56.18	3.31	59.49	105.20	-45.71
5720.000	Peak	60.25	4.17	64.42	110.80	-46.38
5725.000	Peak	63.82	4.21	68.03	122.20	-54.17

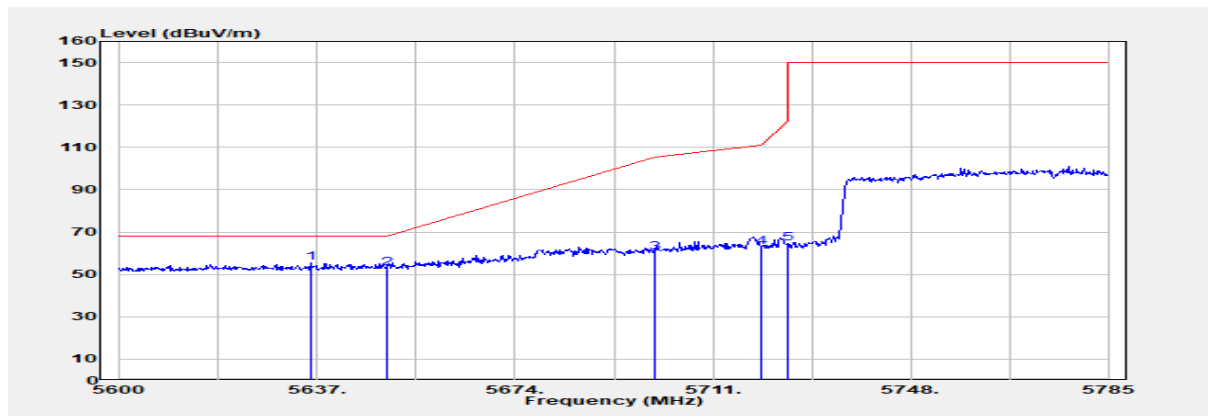
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Report Number :E2/2021/A0065
 Operation Mode :802.11ax80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH LOW FULL
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2021-10-26
 Temp./Humi. :24.4/67
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5635.705	Peak	52.13	3.44	55.58	68.20	-12.62
5650.000	Peak	49.22	3.60	52.82	68.20	-15.38
5700.000	Peak	57.09	3.31	60.40	105.20	-44.80
5720.000	Peak	58.87	4.17	63.04	110.80	-47.76
5725.000	Peak	60.47	4.21	64.68	122.20	-57.52

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax80 / Band 4

Test Date :2021-10-26

Test Frequency :5775 MHz

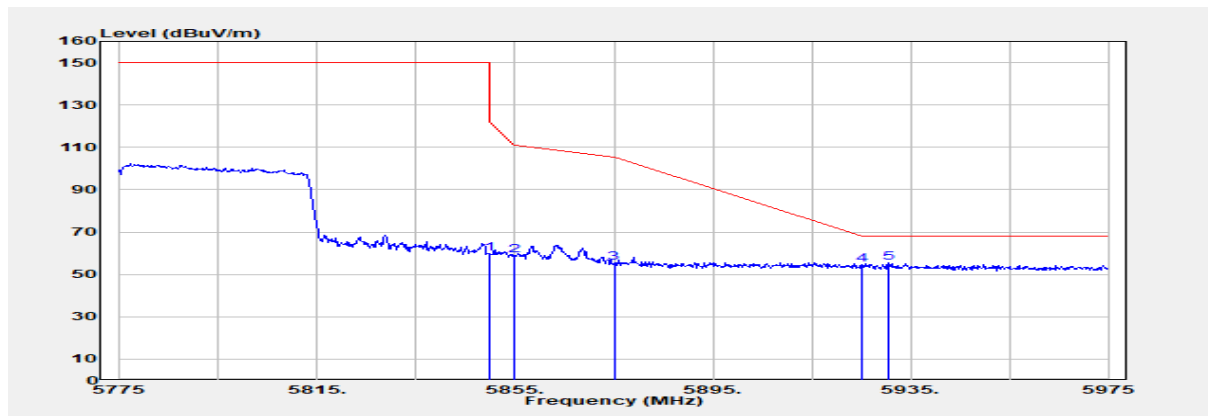
Temp./Humi. :24.4/67

Test Mode :BE CH HIGH FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	55.62	4.31	59.93	122.20	-62.27
5855.000	Peak	54.73	4.21	58.94	110.80	-51.86
5875.000	Peak	51.66	3.90	55.56	105.20	-49.64
5925.000	Peak	50.39	4.36	54.75	68.20	-13.45
5930.400	Peak	51.01	4.33	55.34	68.20	-12.86

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Report Number :E2/2021/A0065

Test Site :SAC G

Operation Mode :802.11ax80 / Band 4

Test Date :2021-10-26

Test Frequency :5775 MHz

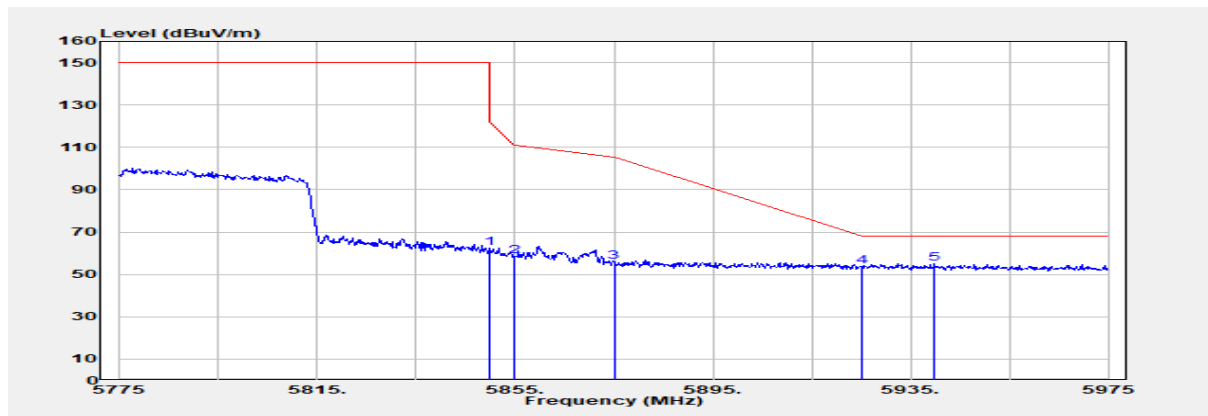
Temp./Humi. :24.4/67

Test Mode :BE CH HIGH FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	57.98	4.31	62.29	122.20	-59.91
5855.000	Peak	54.34	4.21	58.55	110.80	-52.25
5875.000	Peak	52.16	3.90	56.06	105.20	-49.14
5925.000	Peak	49.33	4.36	53.68	68.20	-14.52
5939.800	Peak	50.93	4.13	55.06	68.20	-13.14

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8 TRANSMISSION IN THE ABSENCE OF DATA

8.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

8.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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9 ANTENNA REQUIREMENT

9.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

9.2 Antenna Connected Construction

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

~ End of Report ~

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