

ELECTROMAGNETIC EMISSIONS CLASS II PERMISSIVE CHANGE REPORT



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FCC Manufacturer: Compal Electronics, Inc.
No. 581 & 581-1, Ruiguang Road Neihu District Taipei, 11492
Taiwan
Product Name: WiFi 6E BT 5.2 M.2 2230 Module
Brand Name: acer
Model No.: QCNFA765
Report Number: E2/2022/30012
FCC ID HLZQCNFA765
Issue Date: Apr. 15, 2022
Date of Test: Mar. 08, 2022 ~ Apr. 08, 2022
Date of EUT Received: Dec. 17, 2021

Approved By

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

The results of this report relate only to the sample identified in this report.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
E2/2022/30012	00	Original.	Apr. 15, 2022	Yi-Shan Tsai	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

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

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac
	256QAM, 1024QAM for OFDMA in 802.11ax
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: 6.5 - 144.4 Mbps
	802.11 n_40MHz: 13.5 - 300 Mbps
	802.11 ac_20MHz: 6.5 - 173.4 Mbps
	802.11 ac_40MHz: 13.5 - 400 Mbps
	802.11 ac_80MHz: 29.3 - 866.6 Mbps
	802.11 ac_160MHz: 58.5 - 1733.4 Mbps
	802.11 ax_20MHz: 8.6 - 286.8 Mbps
	802.11 ax_40MHz: 17.2 - 573.6 Mbps
	802.11 ax_80MHz: 36 - 1201 Mbps
	802.11 ax_160MHz: 68 - 2402 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Direction Gain (dBi)
PIFA	WNC	Main	81EABS15.G07 (DC33002NJ00)	5925~6425	3.84	6.36
				6425~6525	2.48	5.73
				6525~6875	2.53	5.91
				6875~7125	2.09	5.50
		Aux	81EABS15.G08 (DC33002NJ10)	5925~6425	2.82	6.36
				6425~6525	2.95	5.73
				6525~6875	3.25	5.91
				6875~7125	2.88	5.50

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 Rated Power

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
a 20MHz	5955~6415	24	28.10 dBm
	6435~6515	5	8.41 dBm
	6535~6875	18	27.67 dBm
	6895~7115	12	8.15 dBm
ax_HE 20MHz	5955~6415	24	25.19 dBm
	6435~6515	5	11.24 dBm
	6535~6875	18	24.74 dBm
	6895~7115	12	12.04 dBm
ax_HE 40MHz	5965~6405	12	24.52 dBm
	6445~6525	3	13.41 dBm
	6565~6845	8	24.22 dBm
	6885~7085	6	15.24 dBm
ax_HE 80MHz	5985~6385	6	24.19 dBm
	6465	1	16.44 dBm
	6545~6865	5	23.98 dBm
	6945~7025	2	16.23 dBm
ax_HE 160MHz	6025~6345	3	23.69 dBm
	6505	1	19.47 dBm
	6665~6825	2	23.26 dBm
	6985	1	18.91 dBm

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01

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 Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.3.4 CBP Test

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer and signal generator and companion device to perform the test.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:



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

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2.5 Test Configuration

Conducted Setup	Radiated Setup
	

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.407(a)(4~8)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)(5),(b)(8), (b)(9)	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-5 5925~6425 MHz										UNII-6 6425~6525 MHz									
20MHz				40MHz		80MHz		160MHz		20MHz		40MHz		80MHz		160MHz			
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
1	5955	49	6195	3	5965	7	5985	15	6025	97	6435	99	6445	103	6465	111	6505		
5	5975	53	6215	11	6005	23	6065	47	6185	101	6455	107	6485						
9	5995	57	6235	19	6045	39	6145	79	6345	105	6475	115	6525						
13	6015	61	6255	27	6085	55	6225			109	6495								
17	6035	65	6275	35	6125	71	6305			113	6515								
21	6055	69	6295	43	6165	87	6385												
25	6075	73	6315	51	6205														
29	6095	77	6335	59	6245														
33	6115	81	6355	67	6285														
37	6135	85	6375	75	6325														
41	6155	89	6395	83	6365														
45	6175	93	6415	91	6405														

UNII-7 6525~6875 MHz										UNII-8 6875~7125 MHz									
20MHz				40MHz		80MHz		160MHz		20MHz		40MHz		80MHz		160MHz			
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
117	6535	153	6715	123	6565	119	6545	143	6665	189	6895	187	6885	199	6945	207	6985		
121	6555	157	6735	131	6605	135	6625	175	6825	193	6915	195	6925	215	7025				
125	6575	161	6755	139	6645	151	6705			197	6935	203	6965						
129	6595	165	6775	147	6685	167	6785			201	6955	211	7005						
133	6615	169	6795	155	6725	183	6865			205	6975	219	7045						
137	6635	173	6815	163	6765					209	6995	227	7085						
141	6655	177	6835	171	6805					213	7015								
145	6675	181	6855	179	6845					217	7035								
149	6695	185	6875							221	7055								
										225	7075								
										229	7095								
										233	7115								

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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 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, heighest and Full RU results higher emissions.
Only one RU can be enabled at any given time.

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

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

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

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RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE		ANTENNA PORT
					(Mbps)		
802.11a	5955~6415	1 to 93	45	OFDM	6		2TX
	6435~6515	97 to 113	105				
	6535~6875	117 to 185	181				
	6895~7115	189 to 233	209				
RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE		ANTENNA PORT
					(Mbps)		
802.11a	5955~6415	1 to 93	1,45	OFDM	6		2TX
	6435~6515	97 to 113	105				
	6535~6875	117 to 185	181				
	6895~7115	189 to 233	209,233				
RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATI	DATA RATE	ANTENNA PORT
						(Mbps)	
802.11ax_HE20	5955~6415	1 to 93	1	OFDMA	FULL RU 26/0,26/8	MCS0	Mimo
	6895~7115	189 to 233	233				
802.11ax_HE40	5965~6405	3 to 91	3	OFDMA	FULL RU 242/61,242/62	MCS0	Mimo
	6885~7085	187 to 227	227				
802.11ax_HE80	5985~6385	7 to 87	7	OFDMA	FULL RU 484/65,484/66	MCS0	Mimo
	6945~7025	199 to 215	215				
802.11ax_HE160	6025~6345	15 to 79	15	OFDMA	FULL RU 484/65,484/66	MCS0	Mimo
	6985	207	207				
CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATI	DATA RATE	ANTENNA PORT
						(Mbps)	
802.11ax_HE20	5955~6415	1 to 93	1	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	Mimo
	6435~6515	97 to 113	105				
	6535~6875	117 to 185	181				
	6895~7115	189 to 233	233				
802.11ax_HE40	5965~6405	3 to 91	3	OFDMA	FULL RU 242/61,242/62	MCS0	Mimo
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	227				
802.11ax_HE80	5985~6385	7 to 87	7	OFDMA	FULL RU 484/65,484/66	MCS0	Mimo
	6465	103	103				
	6545~6865	119 to 183	103				
	6945~7025	199 to 215	215				
802.11ax_HE160	6025~6345	15 to 79	15	OFDMA	FULL RU 484/65,484/66	MCS0	Mimo
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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Note:

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

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Output Power measurement	+/- 1 dB
Undesignable radiated emission measurement	+/- 1.68 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.64 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 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

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

6.2 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	02/15/2022	02/14/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/09/2021	04/08/2022
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber G	N/A	03/30/2021	03/29/2022
3m Site NSA	SGS	966 chamber G	N/A	03/30/2022	03/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2021	03/14/2022

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Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2022	03/14/2023
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2021	03/14/2022
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2022	03/14/2023
Attenuator	Marvelous	MVE2213-10	RF05	11/18/2021	11/17/2022
Highpass Filter	WI	WHKX10-2624-3200-1800-80SS	1	05/10/2021	05/09/2022
Highpass Filter	WI	WHKX10-6090-7000-17000-80SS	1	05/10/2021	05/09/2022
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216 、 210217 、 210218	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216 、 210217 、 210218	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219 、 210220 、 210221	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219 、 210220 、 210221	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000-15000	210224 、 210306	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000-15000	210224 、 210306	03/15/2022	03/14/2023

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

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7 MAXIMUM OUTPUT POWER

7.1 Standard Applicable

7.1.1 Output Power

§15.407(a)

- (4) For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm.
For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (6) For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.
- (8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

EUT CATEGORY		Equipment Class	§15.407(a)	§RSS 248 4.6
	Standard Access Point	6SD	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use	EIRP < 30dBm
	Indoor Access Point	6ID	EIRP < 30dBm	
	Subordinate Device	6PP	EIRP < 30dBm	
	Fixed Client	6FC	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use	EIRP < 24dBm
	Indoor Client	6XD	EIRP < 24dBm	
	Standard Client	6FX	EIRP < 30dBm no more than 6 dB below its associated standard power access point's authorized transmit power	
V	Dual Client	6CD	Compliance both indoor client and standard client limit	

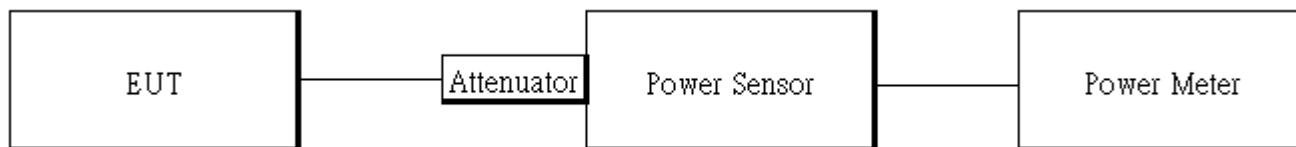
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7.2 Test Setup

7.2.1 Output Power



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.

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

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

7.3 Measurement Procedure

7.3.1 Output Power

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.
7. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + $10 \log (N)$, where N is number of transmitting antenna, cable loss is specified below.

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7.4 Measurement Result

7.4.1 Conducted output power

802.11a_2Tx

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
1	5955	14.40	14.16	18.55	6.36	24.91	30	PASS
45	6175	17.55	17.39	21.74	6.36	28.10	30	PASS
93	6415	17.52	17.30	21.68	6.36	28.04	30	PASS
97	6435	-1.53	-1.65	2.68	5.73	8.41	24	PASS
105	6475	-2.28	-2.45	1.91	5.73	7.64	24	PASS
113	6515	-2.32	-2.59	1.82	5.73	7.55	24	PASS
117	6535	17.02	17.40	21.48	5.91	27.39	30	PASS
149	6695	17.53	17.35	21.71	5.91	27.62	30	PASS
181	6855	17.57	17.41	21.76	5.91	27.67	30	PASS
185	6875(U-NII 7)	-4.73	-4.86	-1.78	5.91	4.13	30	PASS
185	6875(U-NII 8)	-7.74	-4.86	-3.06	5.5	2.44	24	PASS
209	6995	-2.03	-2.21	2.15	5.5	7.65	24	PASS
233	7115	-1.55	-1.69	2.65	5.5	8.15	24	PASS

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802.11ax_20_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
1	5955	full	15.29	15.12	18.57	6.36	24.93	30	PASS
		26/0	9.83	9.54	13.05	6.36	19.41	30	PASS
		52/37	12.78	12.61	16.06	6.36	22.42	30	PASS
		106/53	13.37	13.15	16.62	6.36	22.98	30	PASS
		242/61	14.01	13.72	17.23	6.36	23.59	30	PASS
45	6175	full	15.61	15.32	18.83	6.36	25.19	30	PASS
		26/4	9.88	9.56	13.08	6.36	19.44	30	PASS
		52/38	12.43	12.21	15.68	6.36	22.04	30	PASS
		106/53	14.11	13.88	17.36	6.36	23.72	30	PASS
		242/61	13.99	13.79	17.25	6.36	23.61	30	PASS
93	6415	full	15.52	15.21	18.73	6.36	25.09	30	PASS
		26/8	9.93	9.62	13.14	6.36	19.50	30	PASS
		52/40	12.35	12.13	15.60	6.36	21.96	30	PASS
		106/54	14.04	13.74	17.25	6.36	23.61	30	PASS
		242/61	13.94	13.70	17.18	6.36	23.54	30	PASS
97	6435	full	-0.02	-0.23	3.24	5.73	8.97	24	PASS
		26/0	-7.69	-8.00	-4.48	5.73	1.25	24	PASS
		52/37	-4.98	-5.27	-1.76	5.73	3.97	24	PASS
		106/53	-2.02	-2.19	1.26	5.73	6.99	24	PASS
		242/61	1.97	1.70	5.20	5.73	10.93	24	PASS
105	6475	full	0.68	0.41	3.91	5.73	9.64	24	PASS
		26/4	-6.75	-6.87	-3.45	5.73	2.28	24	PASS
		52/38	-4.77	-5.03	-1.54	5.73	4.19	24	PASS
		106/53	-1.54	-1.80	1.69	5.73	7.42	24	PASS
		242/61	2.26	2.04	5.51	5.73	11.24	24	PASS
113	6515	full	0.53	0.27	3.76	5.73	9.49	24	PASS
		26/8	-7.25	-7.45	-3.99	5.73	1.74	24	PASS
		52/40	-4.81	-5.12	-1.60	5.73	4.13	24	PASS
		106/54	-1.72	-1.90	1.55	5.73	7.28	24	PASS
		242/61	1.57	1.35	4.82	5.73	10.55	24	PASS
117	6535	full	15.62	15.31	18.83	5.91	24.74	30	PASS
		26/0	10.03	9.74	13.25	5.91	19.16	30	PASS
		52/37	12.54	12.23	15.75	5.91	21.66	30	PASS
		106/53	13.84	13.52	17.04	5.91	22.95	30	PASS
		242/61	13.98	13.74	17.22	5.91	23.13	30	PASS
149	6695	full	15.44	15.13	18.65	5.91	24.56	30	PASS
		26/4	9.91	9.68	13.16	5.91	19.07	30	PASS
		52/38	12.47	12.26	15.73	5.91	21.64	30	PASS
		106/54	13.96	13.81	17.25	5.91	23.16	30	PASS
		242/61	14.04	13.84	17.30	5.91	23.21	30	PASS
181	6855	full	15.44	15.19	18.68	5.91	24.59	30	PASS
		26/8	9.77	9.52	13.01	5.91	18.92	30	PASS
		52/40	12.36	12.11	15.60	5.91	21.51	30	PASS
		106/54	13.93	13.61	17.13	5.91	23.04	30	PASS
		242/61	14.04	13.78	17.27	5.91	23.18	30	PASS
185	6875	full	-3.45	-3.64	-0.53	5.91	5.38	30	PASS
		26/8	-7.66	-7.83	-4.38	5.5	1.12	30	PASS
		52/40	-4.68	-4.91	-1.43	5.5	4.07	30	PASS
		106/54	-1.91	-2.11	1.35	5.5	6.85	30	PASS
		242/61	2.03	1.80	5.28	5.5	10.78	30	PASS
209	6995	full	-0.52	-0.66	2.77	5.5	8.27	24	PASS
		26/0	-7.33	-7.59	-4.10	5.5	1.40	24	PASS
		52/37	-5.01	-5.27	-1.78	5.5	3.72	24	PASS
		106/53	-1.69	-1.89	1.57	5.5	7.07	24	PASS
		242/61	1.79	1.57	5.04	5.5	10.54	24	PASS
229	7095	full	0.46	0.23	3.71	5.5	9.21	24	PASS
		26/4	-5.84	-5.97	-2.54	5.5	2.96	24	PASS
		52/38	-4.22	-4.40	-0.95	5.5	4.55	24	PASS
		106/54	-0.63	-0.84	2.63	5.5	8.13	24	PASS
		242/61	3.33	3.02	6.54	5.5	12.04	24	PASS
233	7115	full	-4.74	-4.88	-1.45	5.5	4.05	24	PASS
		26/8	-16.47	-16.71	-13.23	5.5	-7.73	24	PASS
		52/40	-13.11	-13.30	-9.84	5.5	-4.34	24	PASS
		106/54	-11.99	-12.22	-8.74	5.5	-3.24	24	PASS
		242/61	-9.05	-9.24	-5.78	5.5	-0.28	24	PASS

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802.11ax_40_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
3	5965	full	15.01	14.70	18.11	6.36	24.47	30	PASS
		26/9	10.21	9.95	13.33	6.36	19.69	30	PASS
		52/41	13.11	12.87	16.24	6.36	22.60	30	PASS
		106/55	13.62	13.39	16.76	6.36	23.12	30	PASS
		242/63	13.68	13.45	16.82	6.36	23.18	30	PASS
		484/65	12.67	12.51	15.84	6.36	22.20	30	PASS
43	6165	full	15.07	14.74	18.16	6.36	24.52	30	PASS
		26/27	10.08	9.83	13.21	6.36	19.57	30	PASS
		52/48	13.02	12.79	16.16	6.36	22.52	30	PASS
		106/58	14.05	13.66	17.11	6.36	23.47	30	PASS
		242/62	14.15	13.92	17.29	6.36	23.65	30	PASS
		484/65	14.08	13.85	17.22	6.36	23.58	30	PASS
91	6405	full	15.03	14.65	18.09	6.36	24.45	30	PASS
		26/27	9.95	9.66	13.06	6.36	19.42	30	PASS
		52/48	13.02	12.83	16.18	6.36	22.54	30	PASS
		106/58	14.13	13.89	17.26	6.36	23.62	30	PASS
		242/62	14.05	13.75	17.15	6.36	23.51	30	PASS
		484/65	13.98	13.68	17.08	6.36	23.44	30	PASS
99	6445	full	3.85	3.63	6.99	5.73	12.72	24	PASS
		26/9	-7.02	-7.29	-3.90	5.73	1.83	24	PASS
		52/41	-4.62	-4.86	-1.49	5.73	4.24	24	PASS
		106/55	-1.46	-1.65	1.70	5.73	7.43	24	PASS
		242/63	2.04	1.74	5.14	5.73	10.87	24	PASS
		484/65	4.50	4.15	7.58	5.73	13.31	24	PASS
107	6485	full	3.81	3.54	6.93	5.73	12.66	24	PASS
		26/27	-7.41	-7.70	-4.30	5.73	1.43	24	PASS
		52/41	-4.40	-4.59	-1.24	5.73	4.49	24	PASS
		106/58	-1.66	-1.90	1.47	5.73	7.20	24	PASS
		242/62	2.31	2.03	5.42	5.73	11.15	24	PASS
		484/65	4.58	4.27	7.68	5.73	13.41	24	PASS
115	6525	full	3.79	3.48	6.89	5.73	12.62	24	PASS
	6525(U-NII 6)	full	0.78	-3.64	1.86	5.73	7.59	24	PASS
	6525(U-NII 7)	full	-2.23	-6.65	-1.15	5.91	4.76	24	PASS
	6525	26/27	-7.43	-7.63	-4.28	5.91	1.63	24	PASS
		51/48	-4.82	-5.05	-1.68	5.91	4.23	24	PASS
		106/58	-1.39	-1.56	1.78	5.91	7.69	24	PASS
		242/62	2.19	1.97	5.33	5.91	11.24	24	PASS
		484/65	4.01	3.74	7.13	5.91	13.04	24	PASS
123	6565	full	15.21	14.90	18.31	5.91	24.22	30	PASS
		26/9	10.05	9.73	13.14	5.91	19.05	30	PASS
		52/41	12.51	12.28	15.65	5.91	21.56	30	PASS
		106/55	14.02	13.84	17.18	5.91	23.09	30	PASS
		242/63	14.11	13.95	17.28	5.91	23.19	30	PASS
		484/65	14.04	13.81	17.18	5.91	23.09	30	PASS
155	6725	full	15.13	14.94	18.29	5.91	24.20	30	PASS
		26/9	9.48	9.21	12.60	5.91	18.51	30	PASS
		52/41	12.01	11.54	15.03	5.91	20.94	30	PASS
		106/55	14.02	13.73	17.13	5.91	23.04	30	PASS
		242/63	14.21	14.00	17.36	5.91	23.27	30	PASS
		484/65	14.14	13.94	17.29	5.91	23.20	30	PASS
179	6845	full	15.13	14.94	18.29	5.91	24.20	30	PASS
		26/27	9.54	9.28	12.66	5.91	18.57	30	PASS
		52/48	12.61	12.35	15.73	5.91	21.64	30	PASS
		106/58	14.12	13.97	17.30	5.91	23.21	30	PASS
		242/62	14.18	14.02	17.35	5.91	23.26	30	PASS
		484/65	14.08	13.93	17.26	5.91	23.17	30	PASS
187	6885(U-NII 7)	full	-2.78	-2.80	0.22	5.91	6.13	24	PASS
	6885(U-NII 8)	full	-3.94	-3.94	-0.93	5.5	4.57	24	PASS
		26/9	-6.93	-7.22	-3.82	5.5	1.68	24	PASS
		52/41	-4.90	-5.07	-1.73	5.5	3.77	24	PASS
		106/55	-1.77	-1.93	1.40	5.5	6.90	24	PASS
		242/63	1.98	1.65	5.07	5.5	10.57	24	PASS
		484/65	4.43	4.10	7.52	5.5	13.02	24	PASS
		full	3.35	3.04	6.45	5.5	11.95	24	PASS
211	7005	26/9	-7.02	-7.31	-3.91	5.5	1.59	24	PASS
		52/41	-3.90	-4.21	-0.80	5.5	4.70	24	PASS
		106/55	-0.99	-1.20	2.16	5.5	7.66	24	PASS
		242/63	2.41	2.18	5.55	5.5	11.05	24	PASS
		484/65	3.51	3.24	6.63	5.5	12.13	24	PASS
		full	3.57	3.15	6.62	5.5	12.12	24	PASS
227	7085	26/27	-6.48	-6.73	-3.35	5.5	2.15	24	PASS
		52/48	-3.48	-3.70	-0.34	5.5	5.16	24	PASS
		106/58	-0.09	-0.58	2.92	5.5	8.42	24	PASS
		242/62	3.27	3.00	6.39	5.5	11.89	24	PASS
		484/65	6.63	6.35	9.74	5.5	15.24	24	PASS

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802.11ax_80_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
7	5985	full	14.58	14.25	17.74	6.36	24.10	30	PASS
		996/67	14.07	13.67	17.19	6.36	23.55	30	PASS
39	6145	full	14.55	14.25	17.72	6.36	24.08	30	PASS
		996/67	14.07	13.81	17.26	6.36	23.62	30	PASS
87	6385	full	14.66	14.35	17.83	6.36	24.19	30	PASS
		996/67	13.85	13.61	17.05	6.36	23.41	30	PASS
103	6465	full	6.56	6.28	9.74	5.73	15.47	24	PASS
		996/67	7.54	7.23	10.71	5.73	16.44	24	PASS
119	6545(U-NII 6)	full	0.41	0.08	3.26	5.73	8.99	24	PASS
	6545(U-NII 7)	full	-0.78	5.09	6.09	5.91	12.00	24	PASS
	6545	996/67	7.28	7.09	10.51	5.91	16.42	24	PASS
135	6625	full	14.35	13.93	17.47	5.91	23.38	30	PASS
		484/65	13.95	13.76	17.18	5.91	23.09	30	PASS
151	6705	full	14.87	14.63	18.07	5.91	23.98	30	PASS
		996/67	13.91	13.70	17.13	5.91	23.04	30	PASS
167	6785	full	14.52	14.25	17.71	5.91	23.62	30	PASS
		996/67	14.04	13.85	17.27	5.91	23.18	30	PASS
183	6865(U-NII 7)	full	3.31	2.83	6.09	5.91	12.00	30	PASS
	6865(U-NII 8)	full	-1.00	0.52	2.83	5.5	8.33	30	PASS
	6865	996/67	7.37	7.12	10.57	5.5	16.07	30	PASS
199	6945	full	5.47	5.20	8.66	5.5	14.16	24	PASS
		996/67	7.46	7.22	10.66	5.5	16.16	24	PASS
215	7025	full	5.38	5.16	8.59	5.5	14.09	24	PASS
		996/67	7.51	7.31	10.73	5.5	16.23	24	PASS

802.11ax_160_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
15	6025	full	13.99	13.75	17.21	6.36	23.57	30	PASS
		1992/68	12.16	11.92	15.38	6.36	21.74	30	PASS
47	6185	full	14.15	13.84	17.33	6.36	23.69	30	PASS
		1992/68	14.03	13.83	17.27	6.36	23.63	30	PASS
79	6345	full	14.07	13.79	17.27	6.36	23.63	30	PASS
		1992/68	14.04	13.84	17.28	6.36	23.64	30	PASS
111	6505(U-NII 6)	full	5.00	4.78	7.90	5.73	13.63	24	PASS
	6505(U-NII 7)	full	0.69	2.48	4.69	5.91	10.60	24	PASS
	6505	1992/68	10.33	10.11	13.56	5.91	19.47	24	PASS
143	6665	full	14.14	13.88	17.35	5.91	23.26	30	PASS
		1992/68	14.09	13.84	17.30	5.91	23.21	30	PASS
175	6825(U-NII 7)	full	5.89	5.66	8.78	5.91	14.69	30	PASS
	6825(U-NII 8)	full	-1.60	-0.98	1.73	5.5	7.23	30	PASS
	6825	1992/68	10.36	10.18	13.61	5.5	19.11	30	PASS
207	6985	full	7.02	6.87	10.28	5.5	15.78	24	PASS
		1992/68	10.16	9.98	13.41	5.5	18.91	24	PASS

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8 UNDESIRABLE RADIATED EMISSIONS

8.1 Standard Applicable

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz and below 1 GHz must comply with the general field strength limits set forth in §15.209.

The provisions of §15.205 apply to intentional radiators operating under this section.

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

Above 1GHz and non-restricted limit

EIRP LIMIT	FIELD STRENGTH AT 3m
Peak: -7 (dBm/MHz) AV: -27 (dBm/MHz)	Peak: 88.2 (dBμV/m) AV: 68.2 (dBμV/m)

$$EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[m]) - 104.77.$$

$$E[dB\mu V/m] = EIRP[dBm] - 20 \log(d[m]) + 104.77$$

Below 1G and restricted limit

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- The lower limit shall apply at the transition frequencies.

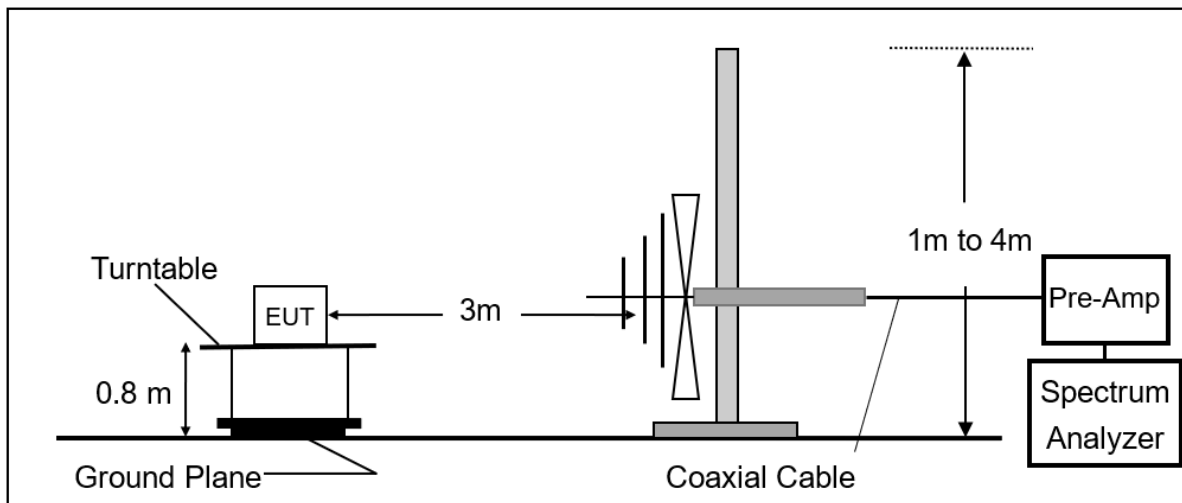
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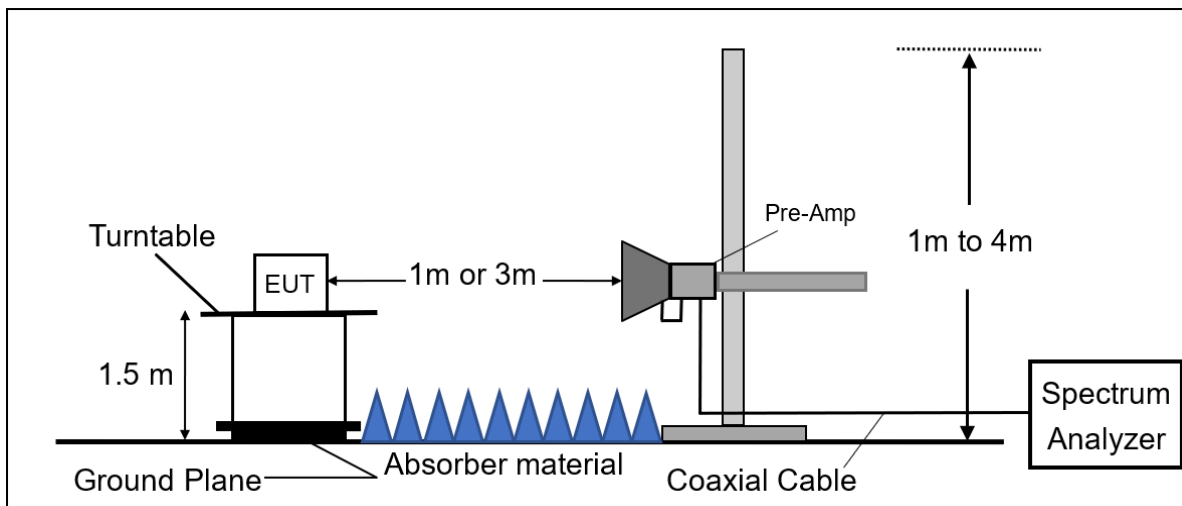
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8.2 Test Setup

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



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



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8.3 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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8.4 Field Strength Calculation

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

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

Where *FS* = Field Strength

RA = Reading Amplitude

AF = Antenna Factor

CL = Cable Attenuation Factor (Cable Loss)

AG = Amplifier Gain

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

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

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

8.5 Test Results of Radiated Spurious Emissions form 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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8.6 Radiated Spurious Emission Measurement Result

8.6.1 Spurious Emission

Report Number :E2/2022/30012

Test Site :SAC G

Operation Mode :802.11a

Test Date :2022-03-24

Test Frequency :6175 MHz

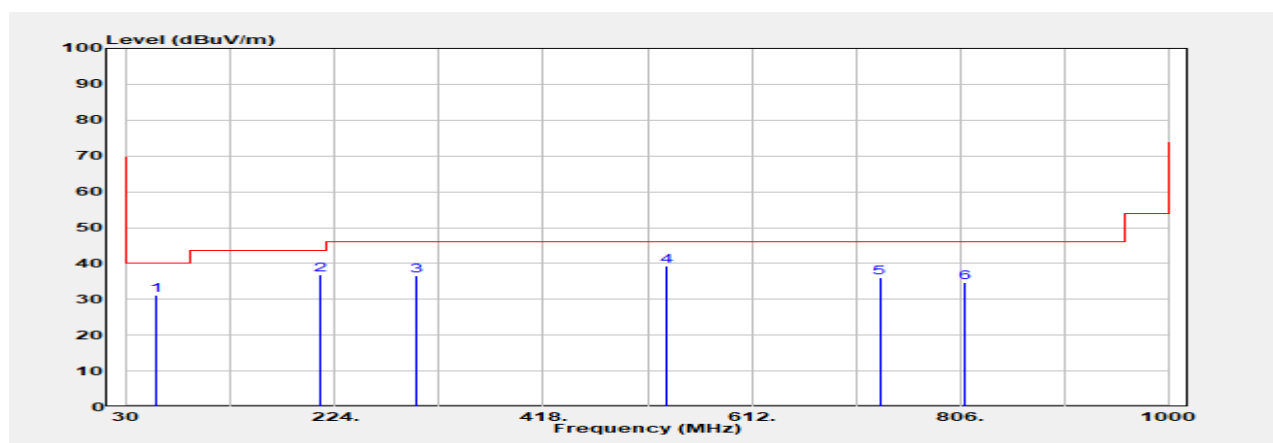
Temp./Humi. :21.5/67

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
57.160	Peak	44.52	-13.41	31.11	40.00	-8.89
209.450	Peak	53.19	-16.34	36.85	43.50	-6.65
299.660	Peak	49.03	-12.52	36.51	46.00	-9.49
532.460	Peak	46.55	-7.34	39.21	46.00	-6.79
731.310	Peak	39.00	-2.88	36.12	46.00	-9.88
810.850	Peak	36.72	-2.10	34.62	46.00	-11.38

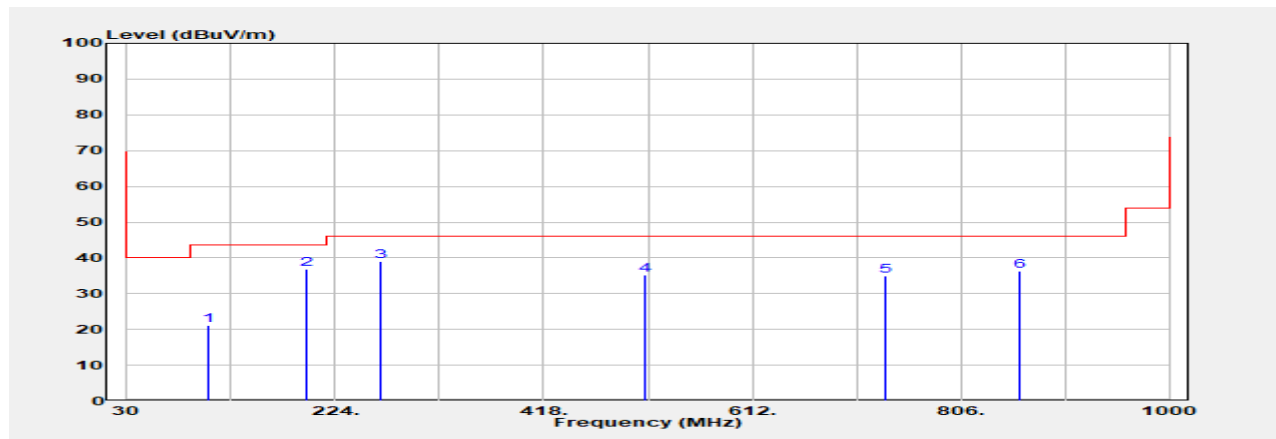
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Report Number :E2/2022/30012
Operation Mode :802.11a
Test Frequency :6175 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-03-24
Temp./Humi. :21.5/67
Antenna Pol. :Horizontal
Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
105.660	Peak	38.12	-16.97	21.15	43.50	-22.35
197.810	Peak	53.03	-16.22	36.81	43.50	-6.69
265.710	Peak	52.75	-13.71	39.04	46.00	-6.96
512.090	Peak	42.74	-7.59	35.15	46.00	-10.85
735.190	Peak	38.03	-3.00	35.03	46.00	-10.97
860.320	Peak	37.46	-1.02	36.44	46.00	-9.56

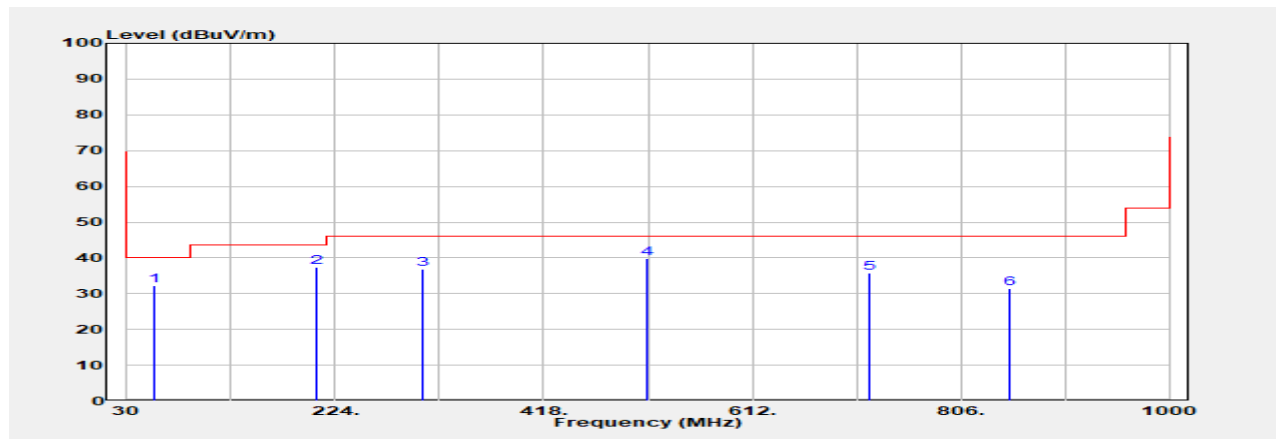
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Report Number :E2/2022/30012
Operation Mode :802.11a
Test Frequency :6475 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-03-24
Temp./Humi. :21.5/67
Antenna Pol. :Vertical
Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
56.190	Peak	45.52	-13.32	32.21	40.00	-7.79
206.540	Peak	53.67	-16.30	37.37	43.50	-6.13
304.510	Peak	49.11	-12.31	36.80	46.00	-9.20
514.030	Peak	47.44	-7.48	39.96	46.00	-6.04
721.610	Peak	38.49	-2.68	35.81	46.00	-10.19
851.590	Peak	32.91	-1.52	31.40	46.00	-14.60

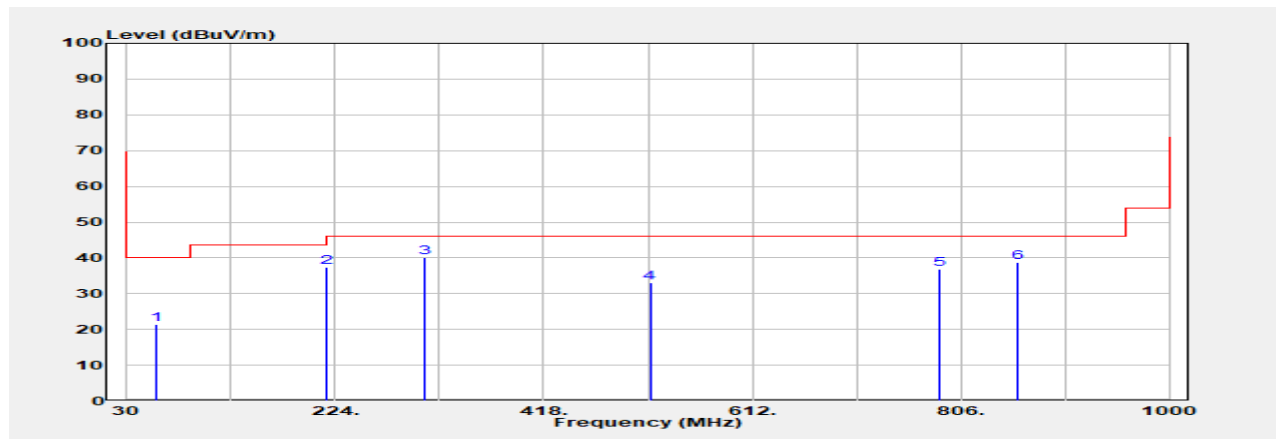
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Report Number :E2/2022/30012
Operation Mode :802.11a
Test Frequency :6475 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-03-24
Temp./Humi. :21.5/67
Antenna Pol. :Horizontal
Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
57.160	Peak	34.77	-13.41	21.37	40.00	-18.63
215.270	Peak	53.79	-16.34	37.45	43.50	-6.05
306.450	Peak	52.22	-12.24	39.98	46.00	-6.02
516.940	Peak	40.65	-7.47	33.18	46.00	-12.82
786.600	Peak	39.43	-2.46	36.97	46.00	-9.03
858.380	Peak	39.85	-1.01	38.83	46.00	-7.17

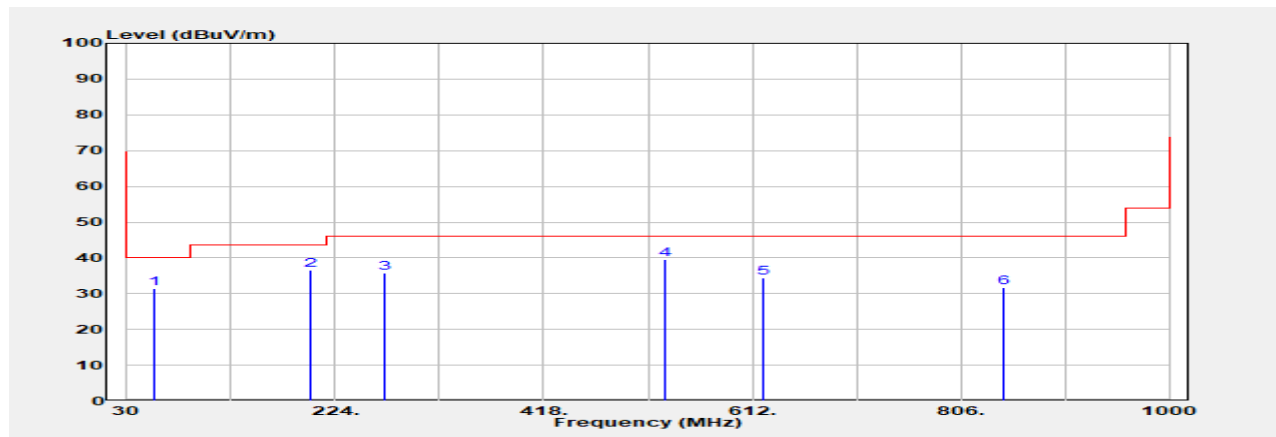
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Report Number :E2/2022/30012
Operation Mode :802.11a
Test Frequency :6695 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-03-24
Temp./Humi. :21.5/67
Antenna Pol. :Vertical
Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
56.190	Peak	44.76	-13.32	31.44	40.00	-8.56
201.690	Peak	52.93	-16.25	36.68	43.50	-6.82
270.560	Peak	48.99	-13.30	35.69	46.00	-10.31
531.490	Peak	46.94	-7.35	39.59	46.00	-6.41
622.670	Peak	39.88	-5.59	34.29	46.00	-11.71
845.770	Peak	33.46	-1.76	31.70	46.00	-14.30

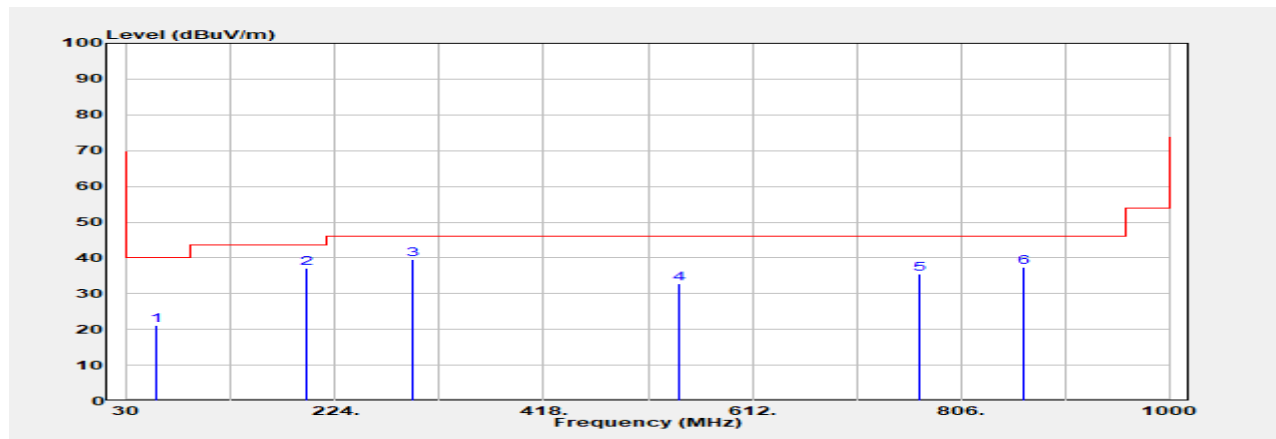
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Report Number :E2/2022/30012
Operation Mode :802.11a
Test Frequency :6695 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-03-24
Temp./Humi. :21.5/67
Antenna Pol. :Horizontal
Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
57.160	Peak	34.55	-13.41	21.14	40.00	-18.86
197.810	Peak	53.41	-16.22	37.19	43.50	-6.31
296.750	Peak	52.16	-12.57	39.59	46.00	-6.41
544.100	Peak	39.76	-7.09	32.67	46.00	-13.33
768.170	Peak	38.60	-3.09	35.51	46.00	-10.49
864.200	Peak	38.03	-0.56	37.47	46.00	-8.53

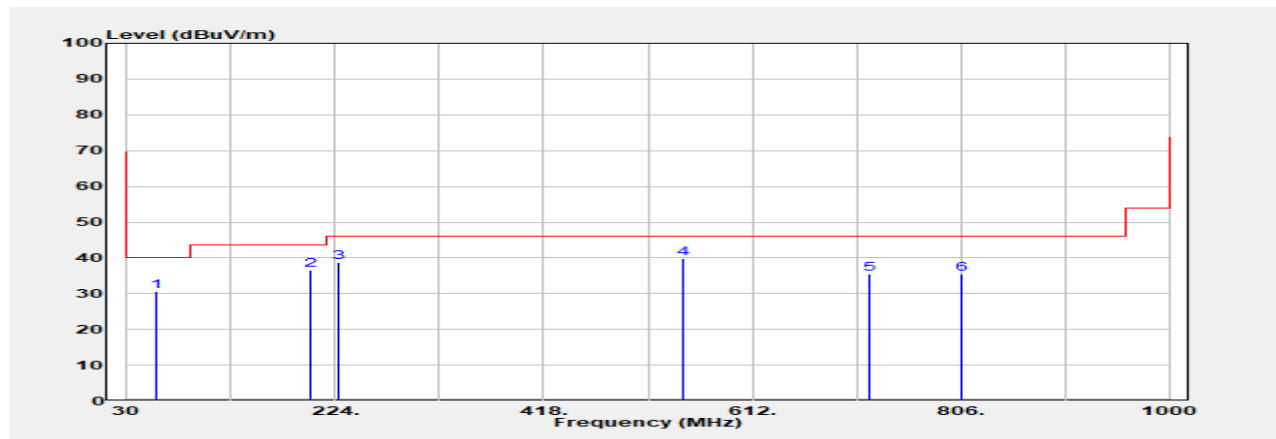
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Report Number :E2/2022/30012
Operation Mode :802.11a
Test Frequency :6875 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-03-24
Temp./Humi. :21.5/67
Antenna Pol. :Vertical
Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
57.160	Peak	43.99	-13.41	30.58	40.00	-9.42
201.690	Peak	52.75	-16.25	36.50	43.50	-7.00
226.910	Peak	54.59	-15.95	38.64	46.00	-7.36
547.010	Peak	46.73	-6.98	39.75	46.00	-6.25
721.610	Peak	38.31	-2.68	35.63	46.00	-10.37
806.000	Peak	37.68	-2.23	35.45	46.00	-10.55

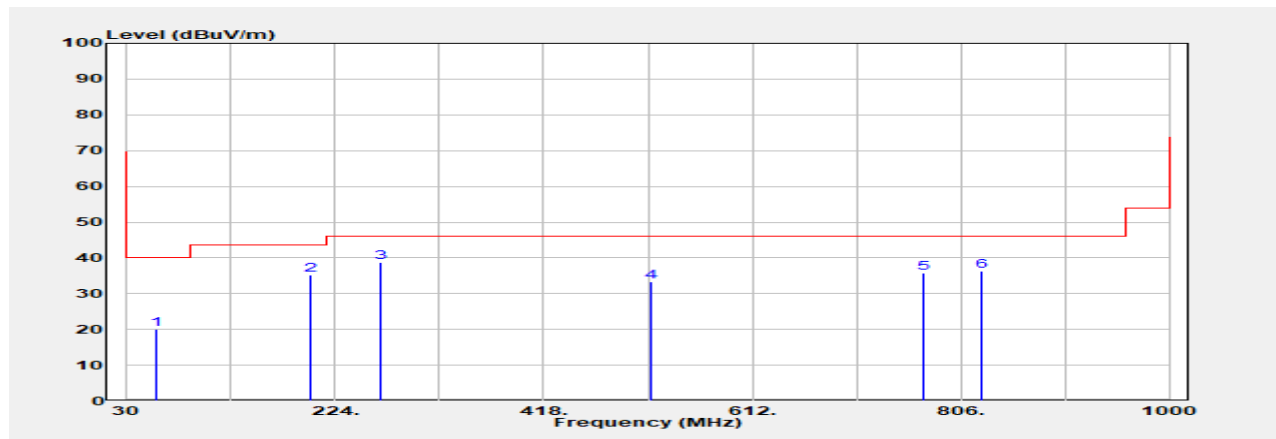
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Report Number :E2/2022/30012
Operation Mode :802.11a
Test Frequency :6875 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-03-24
Temp./Humi. :21.5/67
Antenna Pol. :Horizontal
Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
58.130	Peak	33.37	-13.44	19.92	40.00	-20.08
200.720	Peak	51.46	-16.24	35.23	43.50	-8.27
265.710	Peak	52.39	-13.71	38.68	46.00	-7.32
517.910	Peak	40.83	-7.50	33.33	46.00	-12.67
771.080	Peak	38.61	-2.93	35.67	46.00	-10.33
825.400	Peak	38.35	-2.00	36.36	46.00	-9.64

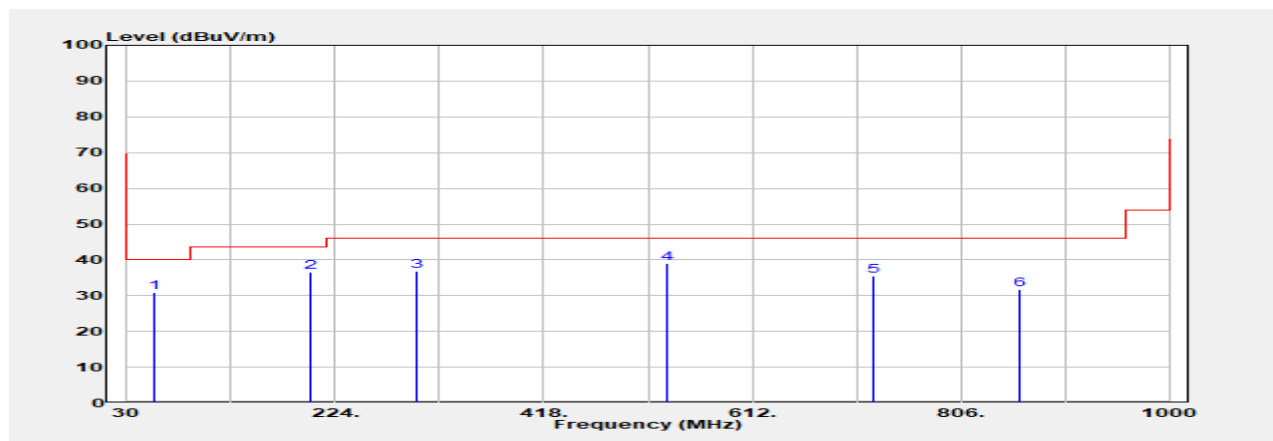
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Report Number :E2/2022/30012
Operation Mode :802.11a
Test Frequency :7095 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-03-24
Temp./Humi. :21.5/67
Antenna Pol. :Vertical
Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
56.190	Peak	44.12	-13.32	30.80	40.00	-9.20
200.720	Peak	52.95	-16.24	36.71	43.50	-6.79
299.660	Peak	49.32	-12.52	36.80	46.00	-9.20
532.460	Peak	46.49	-7.34	39.15	46.00	-6.85
724.520	Peak	38.03	-2.51	35.52	46.00	-10.48
860.320	Peak	32.63	-1.02	31.61	46.00	-14.39

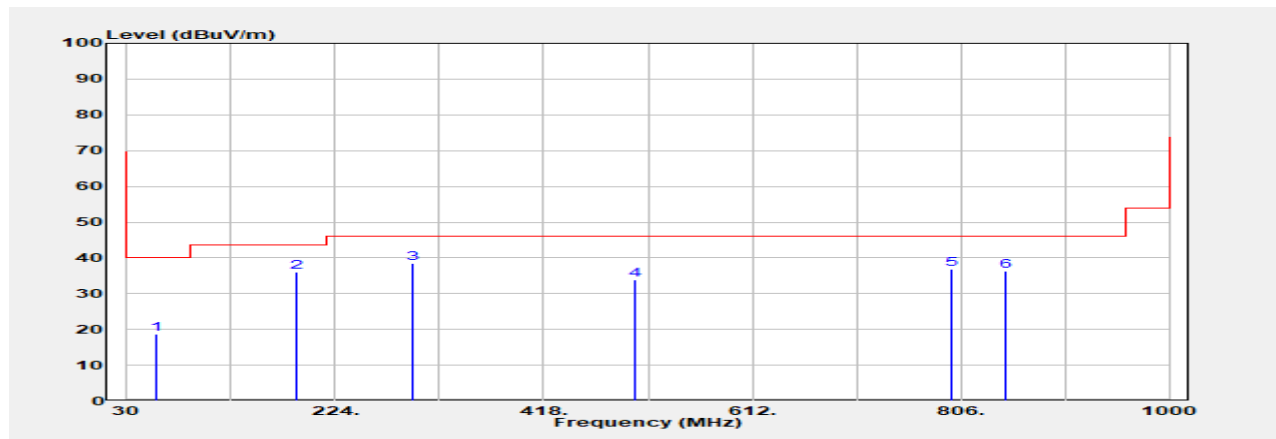
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Report Number :E2/2022/30012
Operation Mode :802.11a
Test Frequency :7095 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC G
Test Date :2022-03-24
Temp./Humi. :21.5/67
Antenna Pol. :Horizontal
Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
57.160	Peak	32.21	-13.41	18.81	40.00	-21.19
187.140	Peak	51.32	-15.38	35.95	43.50	-7.55
296.750	Peak	51.09	-12.57	38.52	46.00	-7.48
502.390	Peak	41.57	-7.63	33.94	46.00	-12.06
798.240	Peak	39.05	-2.24	36.80	46.00	-9.20
847.710	Peak	38.15	-1.78	36.37	46.00	-9.63

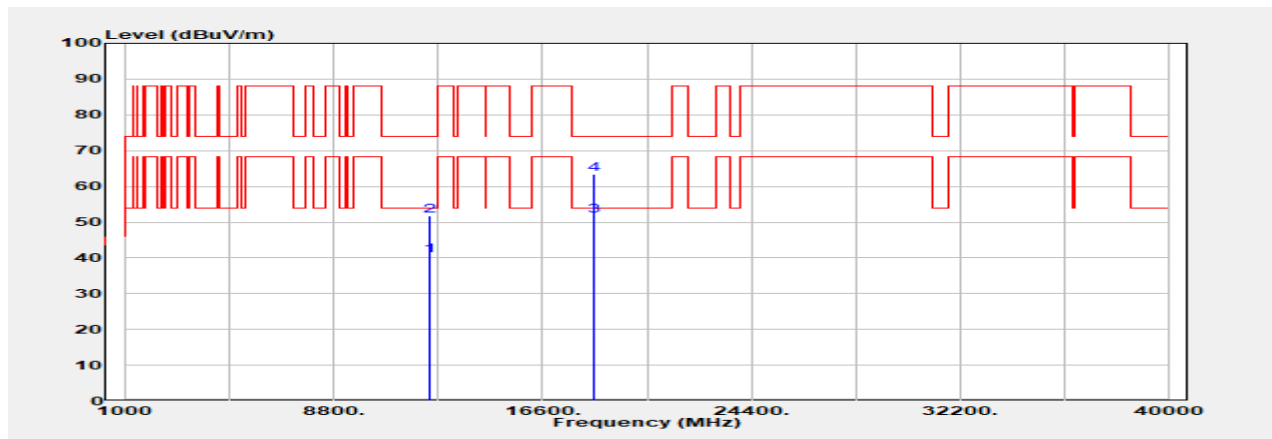
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Report Number :E2/2022/30012
 Operation Mode :802.11a
 Test Frequency :6175 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-24
 Temp./Humi. :21.5/67
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
12350.000	Average	30.44	10.21	40.64	54.00	-13.36
12350.000	Peak	41.64	10.21	51.85	74.00	-22.15
18525.000	Average	32.80	19.03	51.83	54.00	-2.17
18525.000	Peak	44.30	19.03	63.32	74.00	-10.68

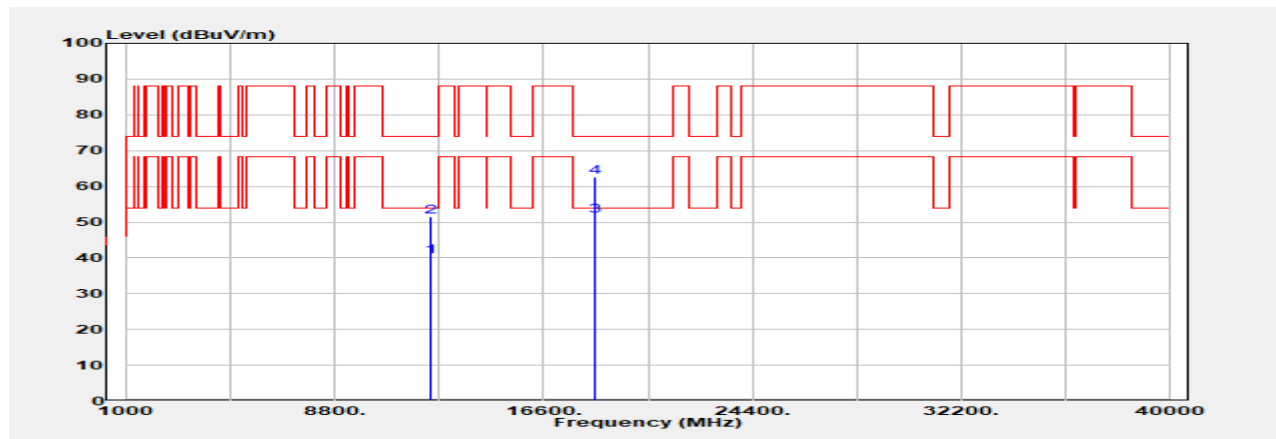
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Report Number :E2/2022/30012
 Operation Mode :802.11a
 Test Frequency :6175 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-24
 Temp./Humi. :21.5/67
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
12350.000	Average	30.27	10.21	40.47	54.00	-13.53
12350.000	Peak	41.29	10.21	51.50	74.00	-22.50
18525.000	Average	32.71	19.03	51.74	54.00	-2.26
18525.000	Peak	43.57	19.03	62.59	74.00	-11.41

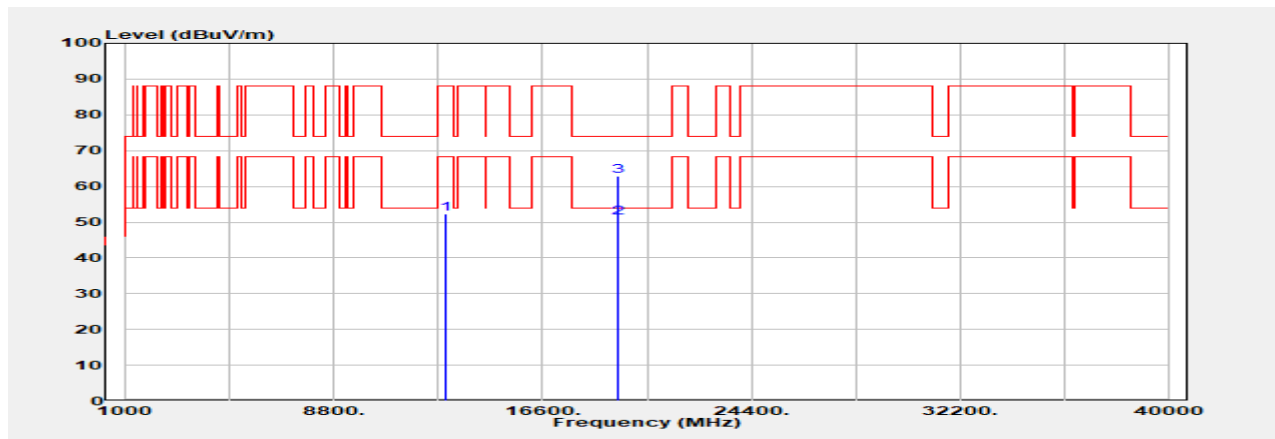
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Report Number :E2/2022/30012
 Operation Mode :802.11a
 Test Frequency :6475 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-24
 Temp./Humi. :21.5/67
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
12950.000	Peak	41.26	11.16	52.42	88.20	-35.78
19425.000	Average	32.11	19.05	51.16	54.00	-2.84
19425.000	Peak	43.87	19.05	62.92	74.00	-11.08

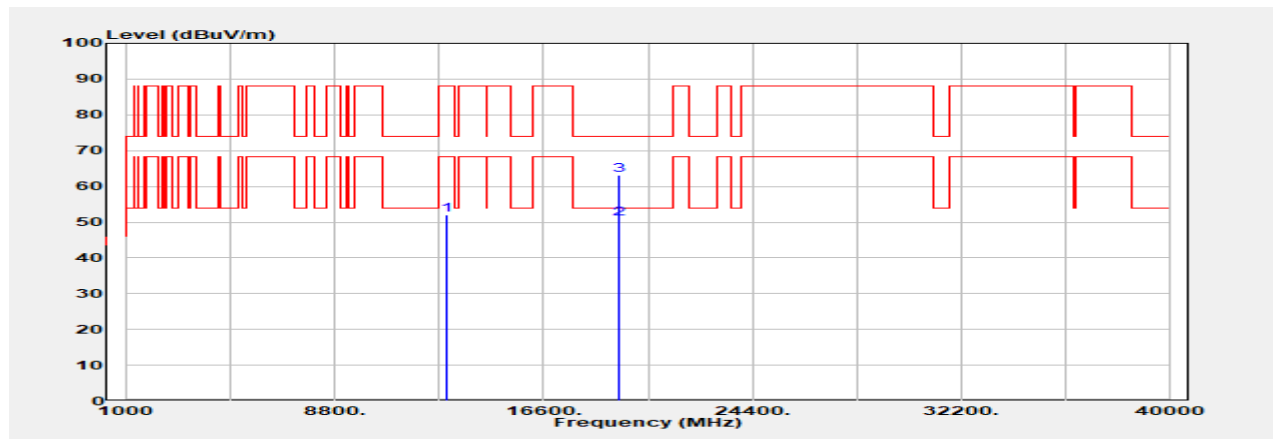
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Report Number :E2/2022/30012
 Operation Mode :802.11a
 Test Frequency :6475 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-24
 Temp./Humi. :21.5/67
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
12950.000	Peak	40.97	11.16	52.13	88.20	-36.07
19425.000	Average	32.03	19.05	51.08	54.00	-2.92
19425.000	Peak	44.08	19.05	63.12	74.00	-10.88

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Report Number :E2/2022/30012

Test Site :SAC G

Operation Mode :802.11a

Test Date :2022-03-24

Test Frequency :6695 MHz

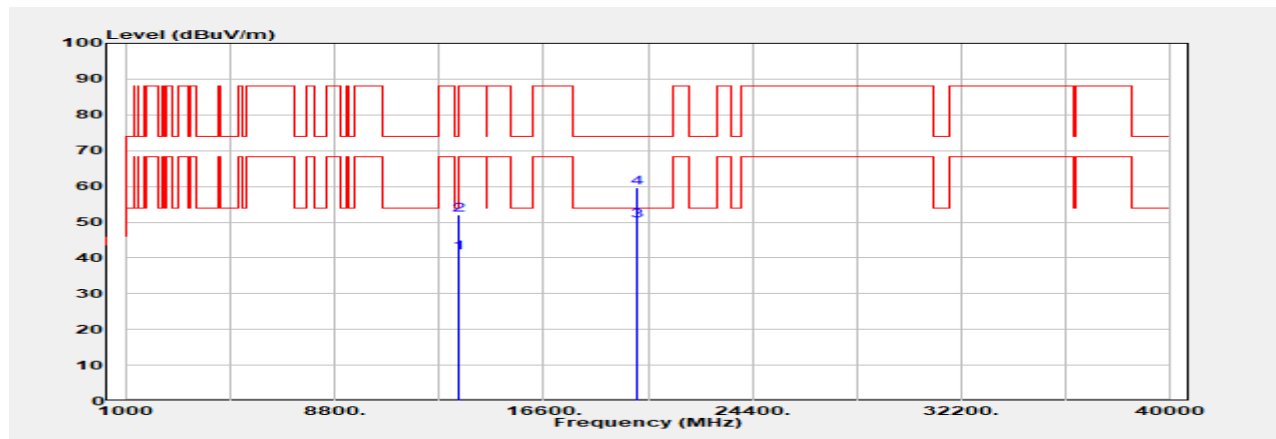
Temp./Humi. :21.5/67

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13390.000	Average	31.03	10.41	41.44	54.00	-12.56
13390.000	Peak	41.60	10.41	52.01	74.00	-21.99
20085.000	Average	33.18	17.11	50.29	54.00	-3.71
20085.000	Peak	42.44	17.11	59.54	74.00	-14.46

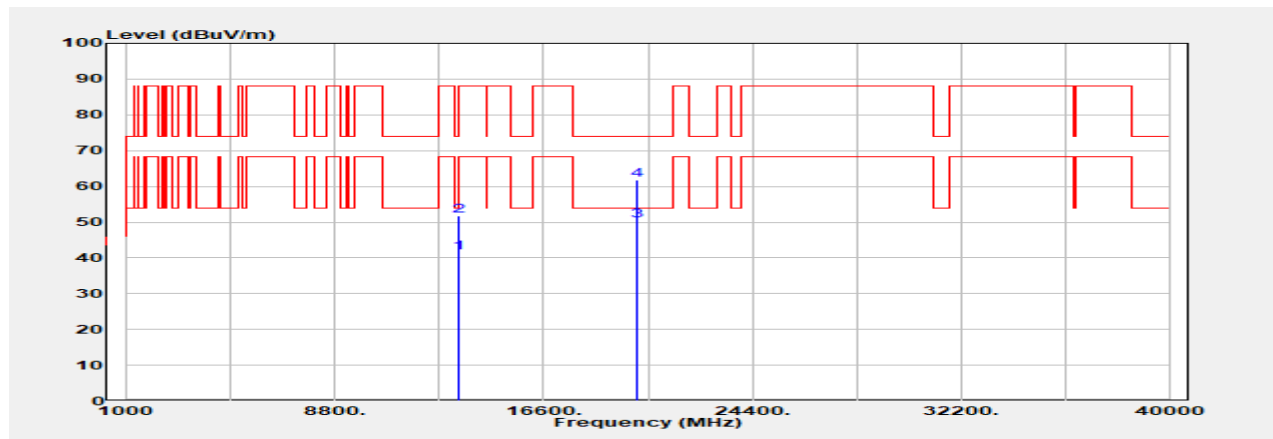
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Report Number :E2/2022/30012
 Operation Mode :802.11a
 Test Frequency :6695 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-24
 Temp./Humi. :21.5/67
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13390.000	Average	30.98	10.41	41.39	54.00	-12.61
13390.000	Peak	41.22	10.41	51.63	74.00	-22.37
20085.000	Average	33.24	17.11	50.34	54.00	-3.66
20085.000	Peak	44.57	17.11	61.68	74.00	-12.32

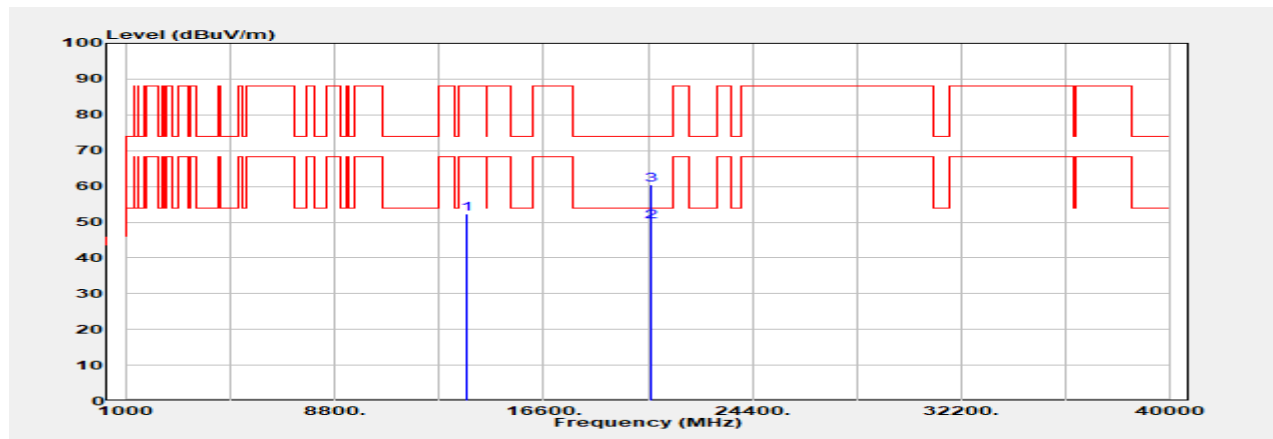
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Report Number :E2/2022/30012
 Operation Mode :802.11a
 Test Frequency :6875 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-24
 Temp./Humi. :21.5/67
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
13750.000	Peak	42.21	10.21	52.41	88.20	-35.79
20625.000	Average	33.38	16.82	50.20	54.00	-3.80
20625.000	Peak	43.61	16.82	60.43	74.00	-13.57

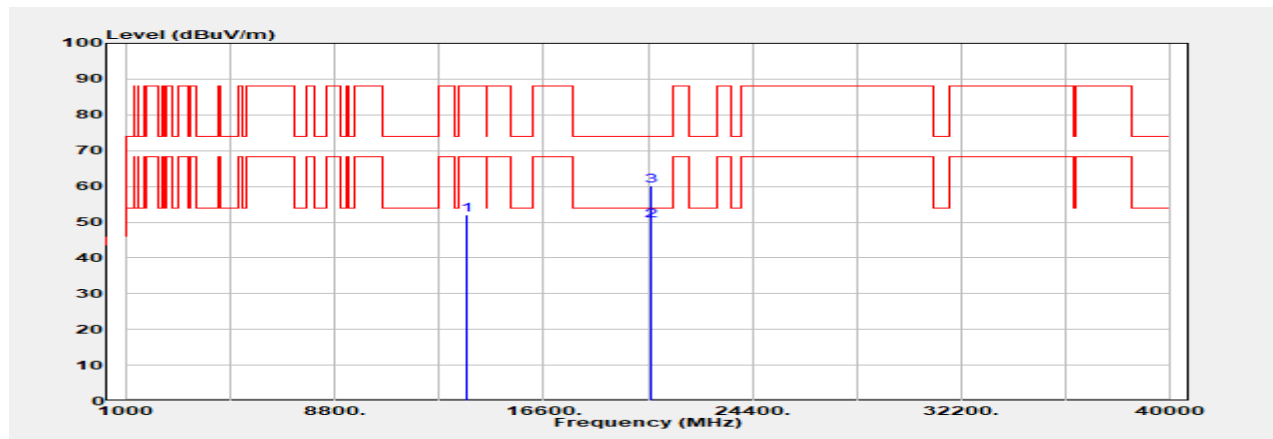
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Report Number :E2/2022/30012
 Operation Mode :802.11a
 Test Frequency :6875 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-24
 Temp./Humi. :21.5/67
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13750.000	Peak	41.92	10.21	52.13	88.20	-36.07
20625.000	Average	33.48	16.82	50.30	54.00	-3.70
20625.000	Peak	43.27	16.82	60.09	74.00	-13.91

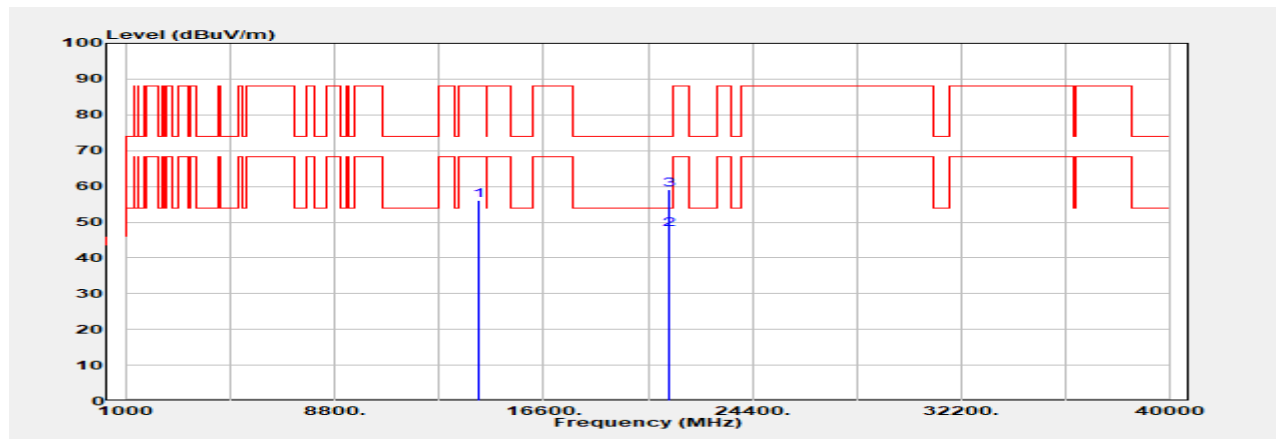
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Report Number :E2/2022/30012
 Operation Mode :802.11a
 Test Frequency :7095 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-24
 Temp./Humi. :21.5/67
 Antenna Pol. :Vertical
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
14190.000	Peak	44.13	11.91	56.03	88.20	-32.17
21285.000	Average	32.68	15.33	48.01	54.00	-5.99
21285.000	Peak	43.63	15.33	58.96	74.00	-15.04

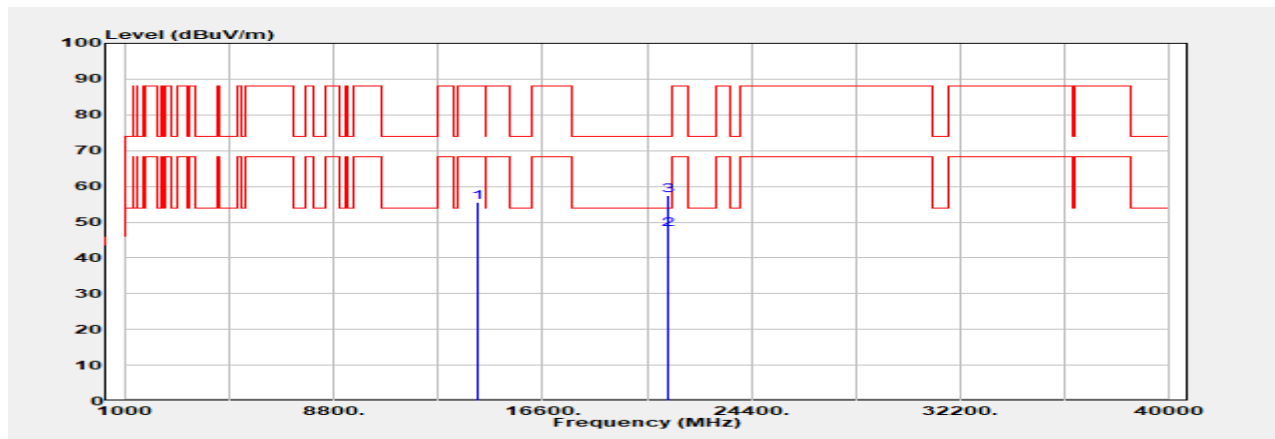
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Report Number :E2/2022/30012
 Operation Mode :802.11a
 Test Frequency :7095 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC G
 Test Date :2022-03-24
 Temp./Humi. :21.5/67
 Antenna Pol. :Horizontal
 Engineer :Quentin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
14190.000	Peak	43.53	11.91	55.44	88.20	-32.76
21285.000	Average	32.59	15.33	47.93	54.00	-6.07
21285.000	Peak	42.19	15.33	57.53	74.00	-16.47

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8.6.2 Band edge falling to restricted band

Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11a

Test Date :2022-03-17

Test Frequency :5955 MHz

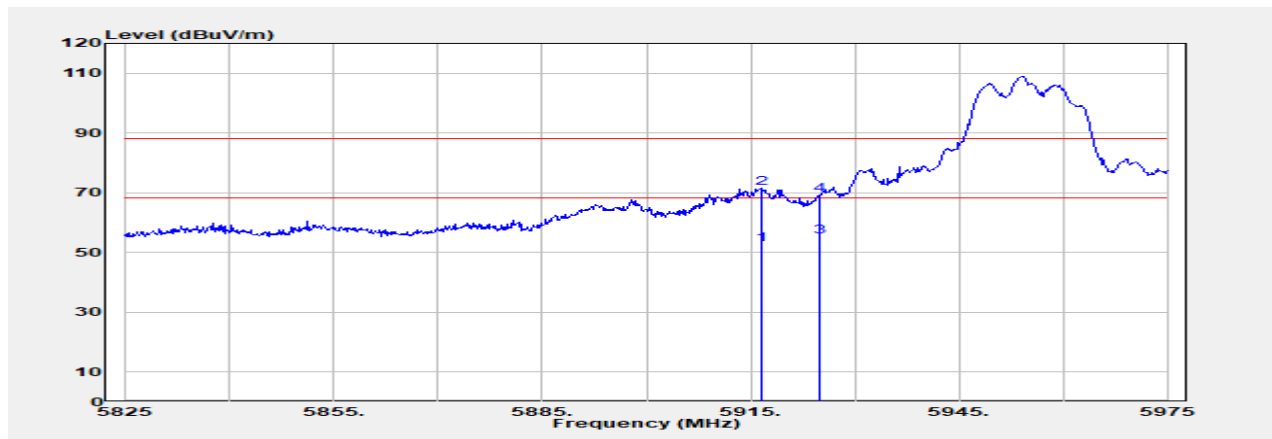
Temp./Humi. :21.7/69

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5916.650	Average	48.31	4.38	52.69	68.20	-15.51
5916.650	Peak	67.03	4.38	71.41	88.20	-16.79
5925.000	Average	50.78	4.36	55.14	68.20	-13.06
5925.000	Peak	64.84	4.36	69.20	88.20	-19.00

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11a

Test Date :2022-03-17

Test Frequency :5955 MHz

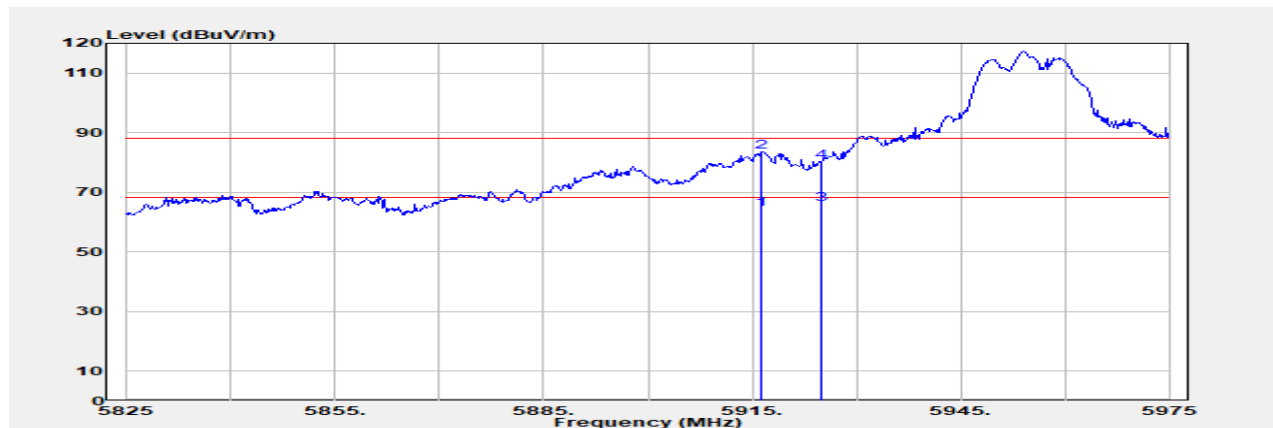
Temp./Humi. :21.7/69

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5916.350	Average	60.00	4.38	64.38	68.20	-3.82
5916.350	Peak	79.14	4.38	83.52	88.20	-4.68
5925.000	Average	61.54	4.36	65.89	68.20	-2.31
5925.000	Peak	76.01	4.36	80.37	88.20	-7.83

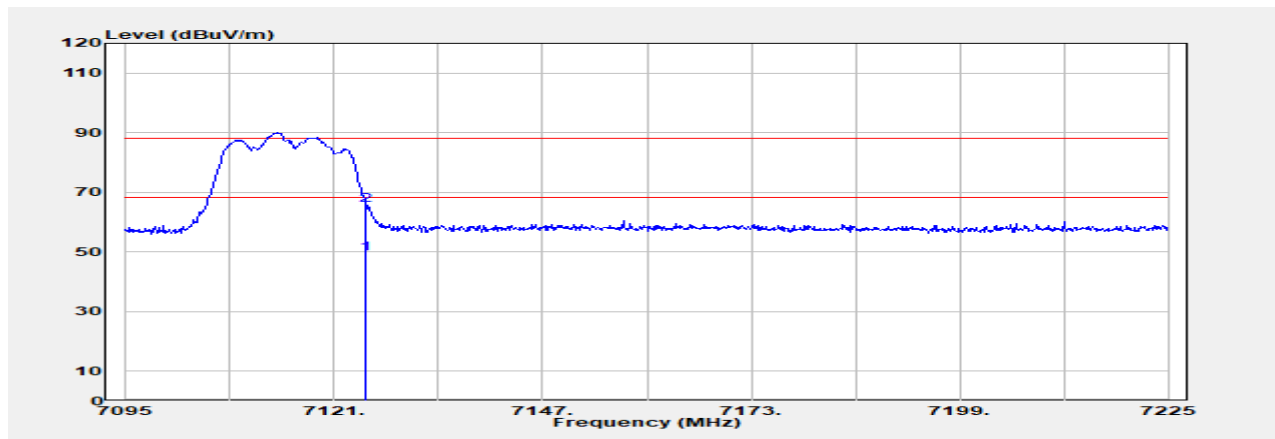
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Report Number :ER/2022/30012
Operation Mode :802.11a
Test Frequency :7115 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	42.17	7.39	49.55	68.20	-18.65
7125.000	Peak	58.40	7.39	65.78	88.20	-22.42

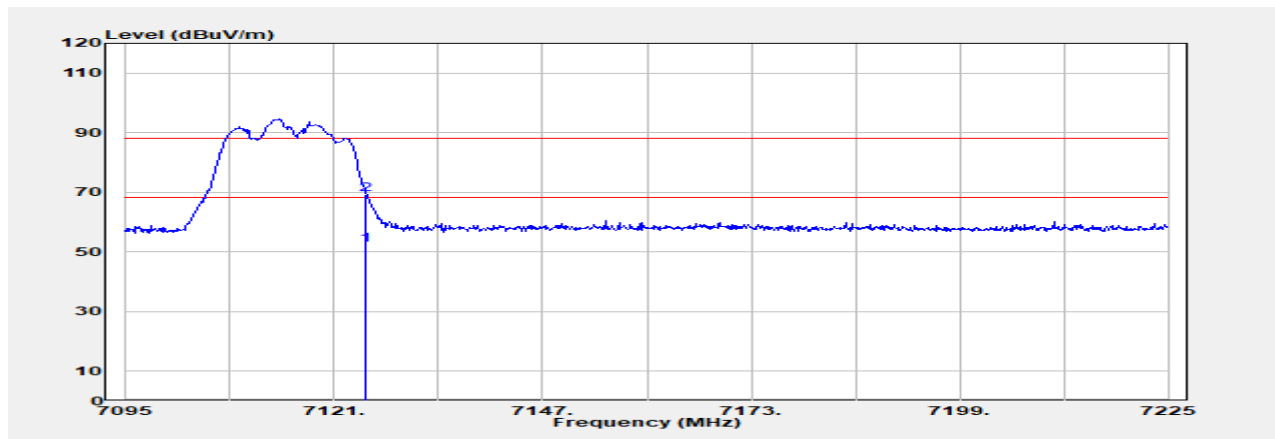
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Report Number :ER/2022/30012
Operation Mode :802.11a
Test Frequency :7115 MHz
Test Mode :BE CH HIGH
EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	44.97	7.39	52.36	68.20	-15.84
7125.000	Peak	61.99	7.39	69.37	88.20	-18.83

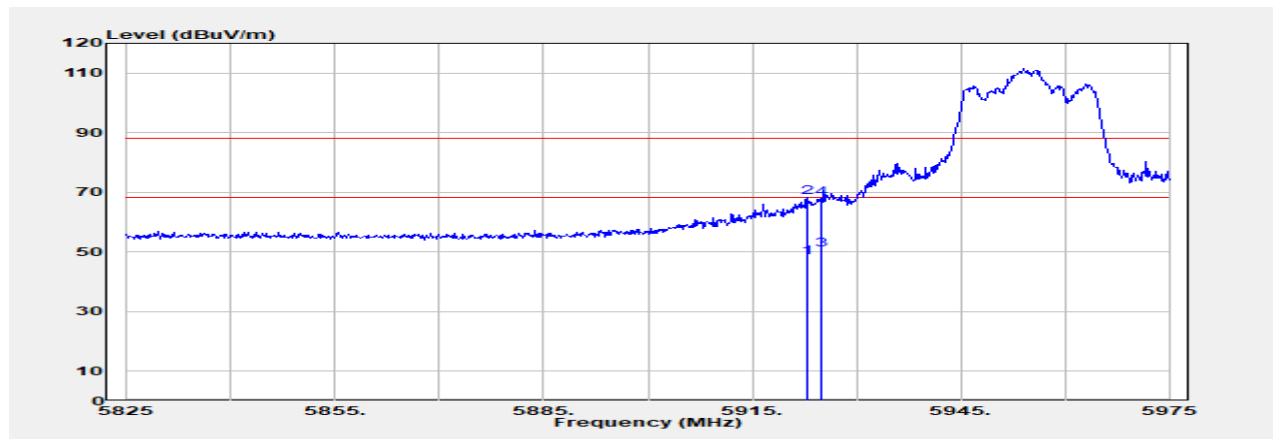
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Report Number :ER/2022/30012
 Operation Mode :802.11ax20
 Test Frequency :5955 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5922.800	Average	43.88	4.36	48.24	68.20	-19.96
5922.800	Peak	63.93	4.36	68.29	88.20	-19.91
5925.000	Average	46.26	4.36	50.61	68.20	-17.59
5925.000	Peak	63.59	4.36	67.94	88.20	-20.26

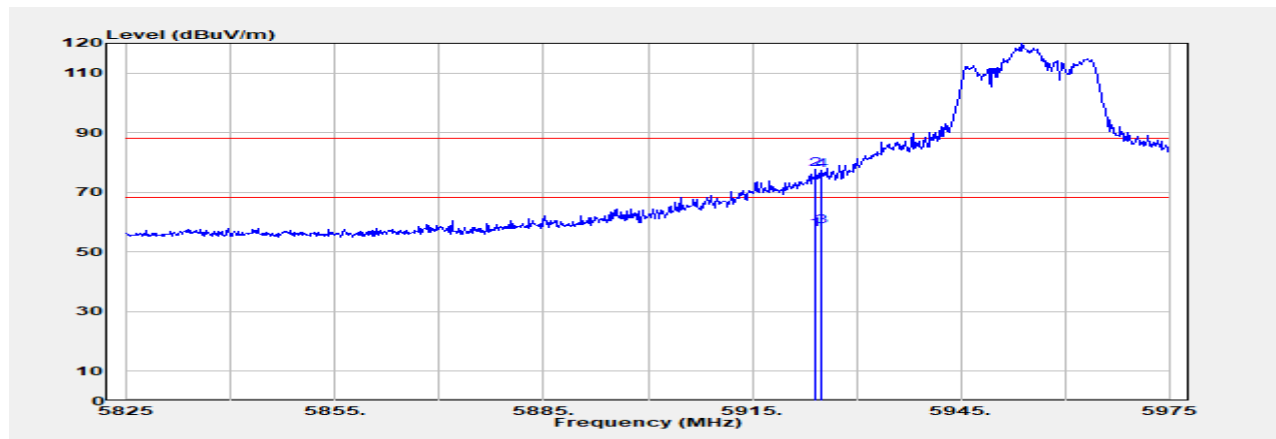
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Report Number :ER/2022/30012
 Operation Mode :802.11ax20
 Test Frequency :5955 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5924.150	Average	53.27	4.36	57.63	68.20	-10.57
5924.150	Peak	73.25	4.36	77.61	88.20	-10.59
5925.000	Average	54.14	4.36	58.50	68.20	-9.70
5925.000	Peak	73.17	4.36	77.53	88.20	-10.67

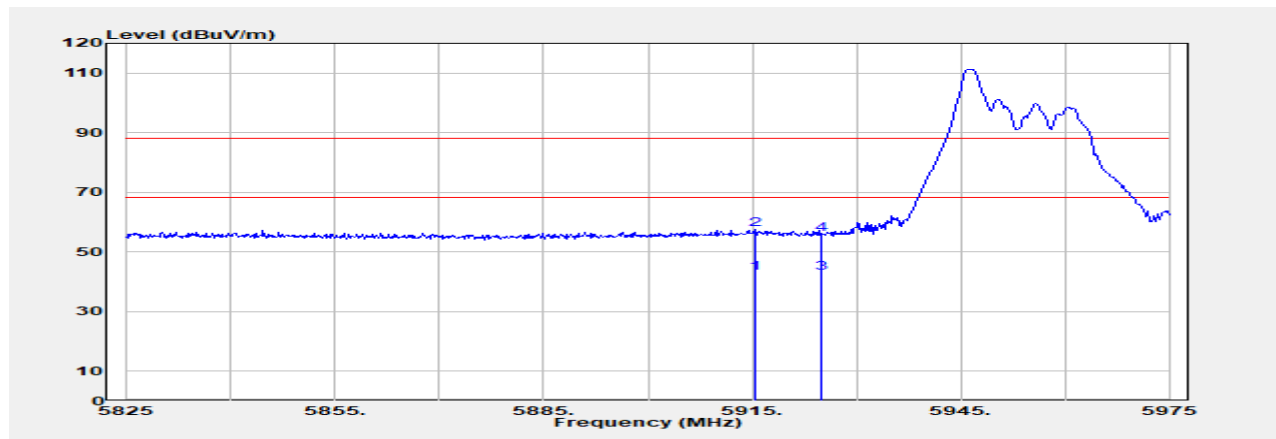
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Report Number :ER/2022/30012
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :BE CH LOW RU 26/0
EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5915.300	Average	38.64	4.38	43.02	68.20	-25.18
5915.300	Peak	53.28	4.38	57.66	88.20	-30.54
5925.000	Average	38.42	4.36	42.77	68.20	-25.43
5925.000	Peak	51.47	4.36	55.83	88.20	-32.37

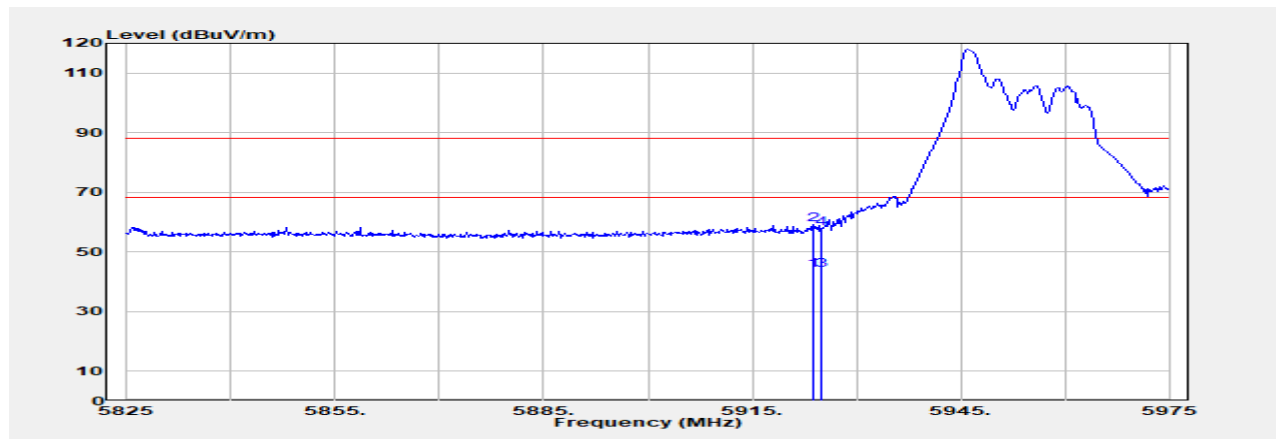
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Report Number :ER/2022/30012
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :BE CH LOW RU 26/0
EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5923.850	Average	39.39	4.36	43.74	68.20	-24.46
5923.850	Peak	54.70	4.36	59.06	88.20	-29.14
5925.000	Average	39.45	4.36	43.80	68.20	-24.40
5925.000	Peak	53.51	4.36	57.86	88.20	-30.34

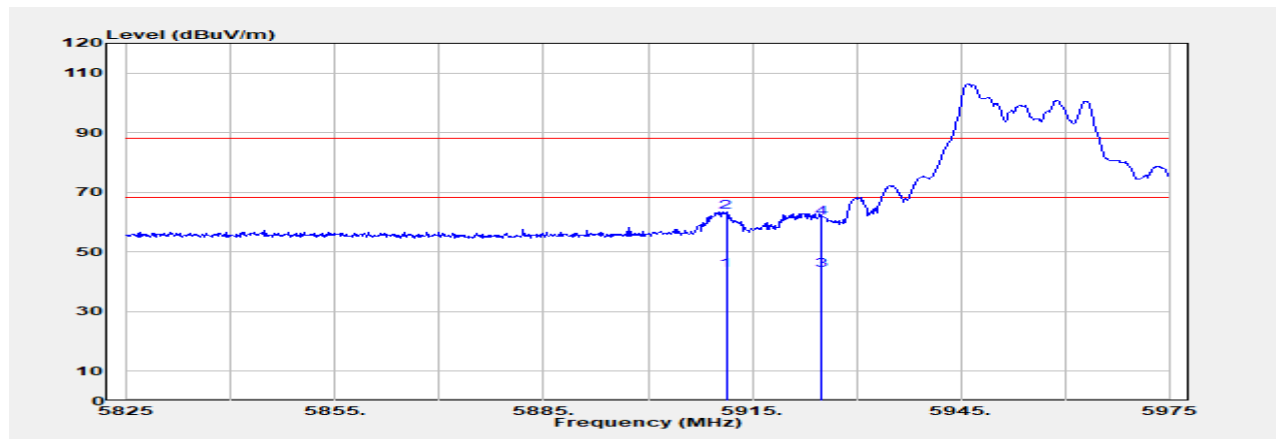
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Report Number :ER/2022/30012
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :BE CH LOW RU 52/37
EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5911.250	Average	39.59	4.40	43.99	68.20	-24.21
5911.250	Peak	59.03	4.40	63.43	88.20	-24.77
5925.000	Average	39.63	4.36	43.99	68.20	-24.21
5925.000	Peak	57.01	4.36	61.36	88.20	-26.84

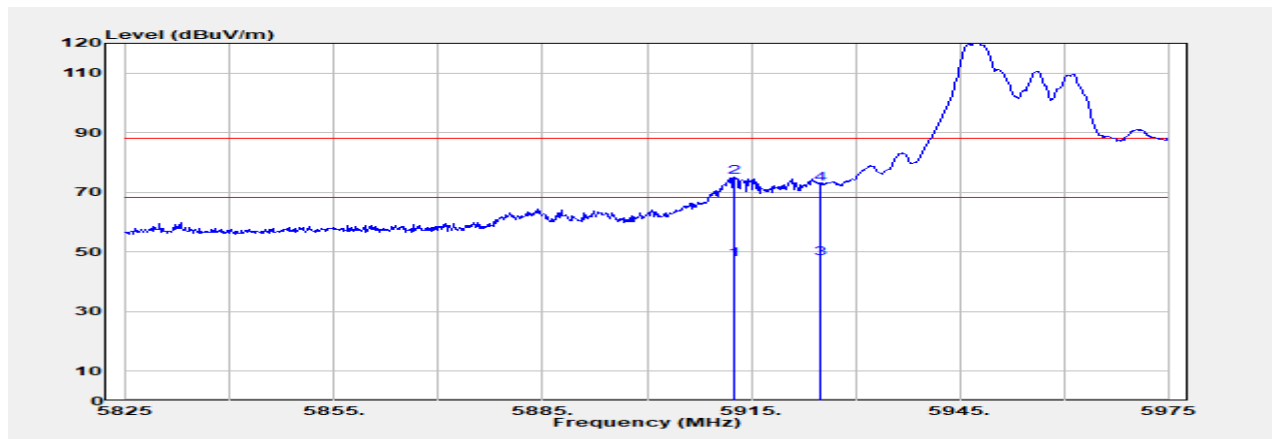
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Report Number :ER/2022/30012
 Operation Mode :802.11ax20
 Test Frequency :5955 MHz
 Test Mode :BE CH LOW RU 52/37
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5912.450	Average	43.01	4.39	47.40	68.20	-20.80
5912.450	Peak	70.81	4.39	75.21	88.20	-12.99
5925.000	Average	43.36	4.36	47.72	68.20	-20.48
5925.000	Peak	68.40	4.36	72.75	88.20	-15.45

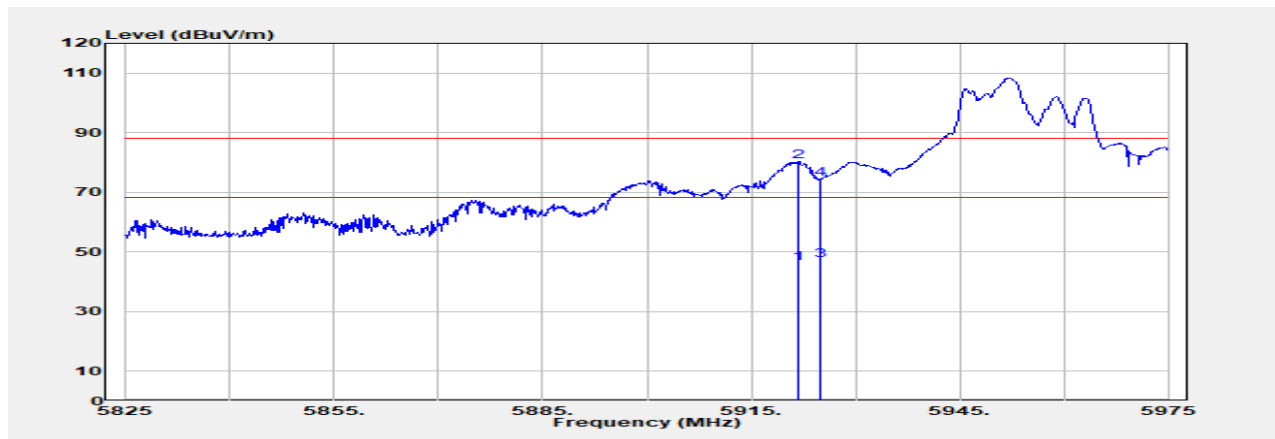
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Report Number :ER/2022/30012
 Operation Mode :802.11ax20
 Test Frequency :5955 MHz
 Test Mode :BE CH LOW RU 106/53
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5921.750	Average	41.97	4.36	46.34	68.20	-21.86
5921.750	Peak	75.91	4.36	80.27	88.20	-7.93
5925.000	Average	42.73	4.36	47.08	68.20	-21.12
5925.000	Peak	70.06	4.36	74.42	88.20	-13.78

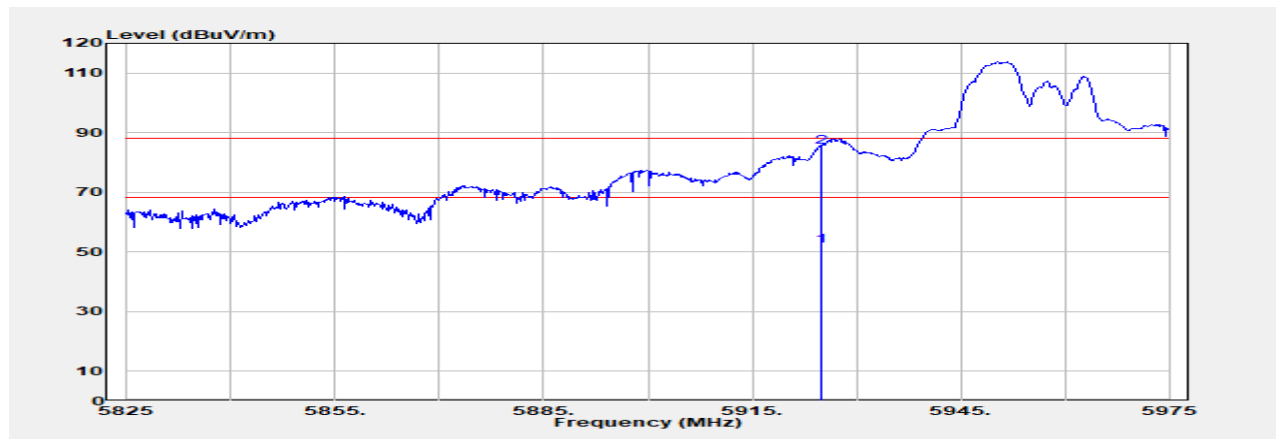
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Report Number :ER/2022/30012
 Operation Mode :802.11ax20
 Test Frequency :5955 MHz
 Test Mode :BE CH LOW RU 106/53
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5925.000	Average	47.74	4.36	52.10	68.20	-16.10
5925.000	Peak	80.85	4.36	85.21	88.20	-2.99

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-03-17

Test Frequency :5955 MHz

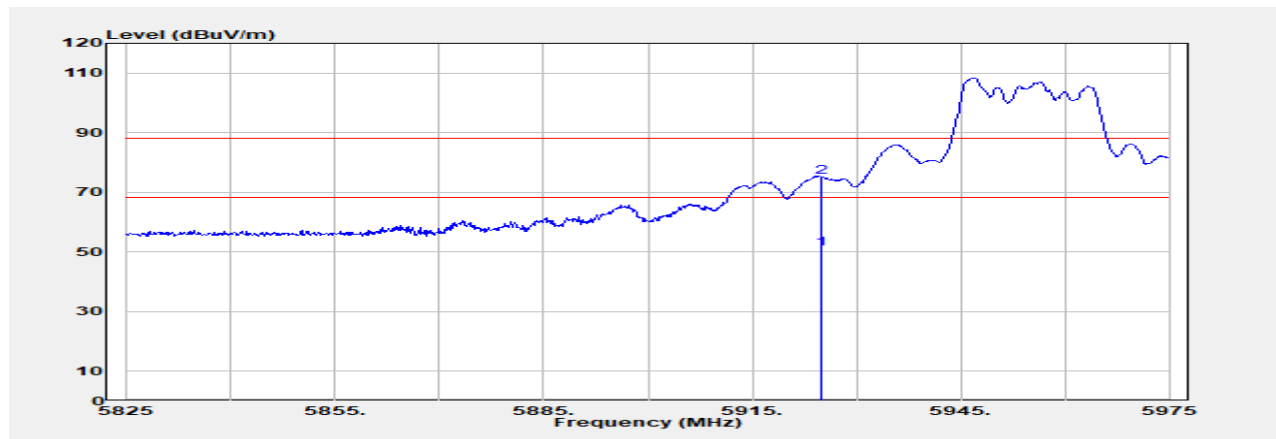
Temp./Humi. :21.7/69

Test Mode :BE CH LOW RU 242/61

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5925.000	Average	46.58	4.36	50.94	68.20	-17.26
5925.000	Peak	70.76	4.36	75.12	88.20	-13.08

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-03-17

Test Frequency :5955 MHz

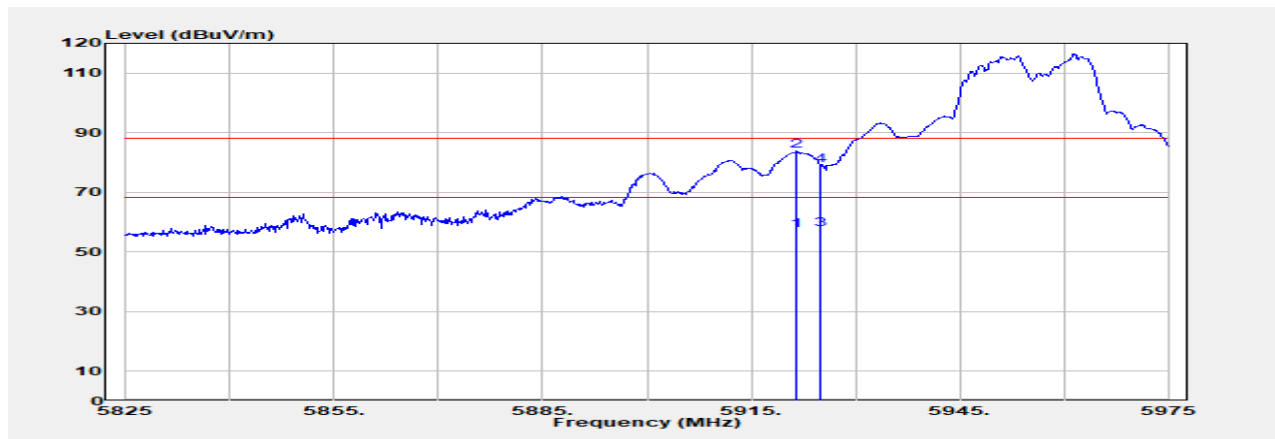
Temp./Humi. :21.7/69

Test Mode :BE CH LOW RU 242/61

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5921.600	Average	52.81	4.37	57.18	68.20	-11.02
5921.600	Peak	79.41	4.37	83.78	88.20	-4.42
5925.000	Average	53.30	4.36	57.66	68.20	-10.54
5925.000	Peak	74.72	4.36	79.07	88.20	-9.13

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-03-17

Test Frequency :7115 MHz

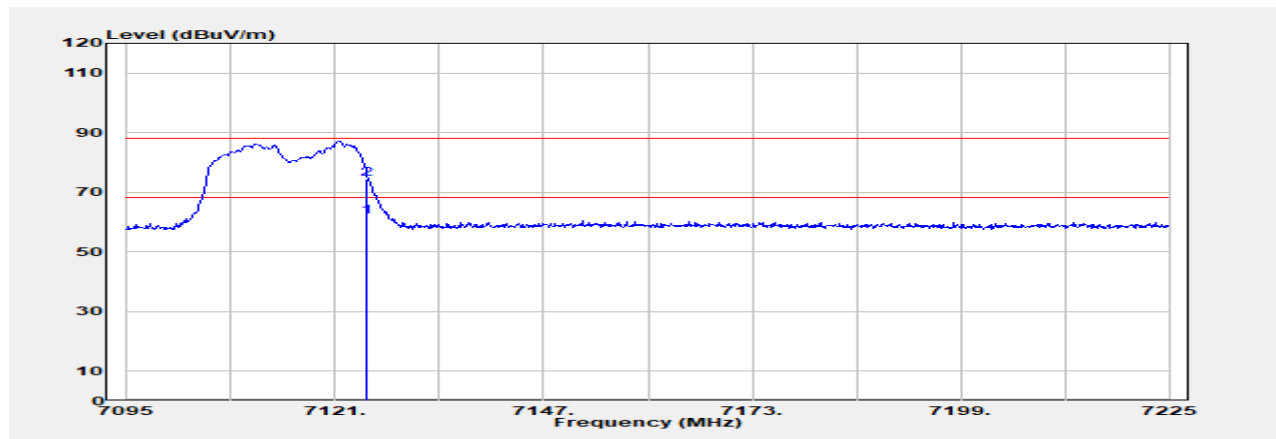
Temp./Humi. :21.7/69

Test Mode :BE CH HIGH RU FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	54.31	7.39	61.69	68.20	-6.51
7125.000	Peak	67.13	7.39	74.51	88.20	-13.69

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-03-17

Test Frequency :7115 MHz

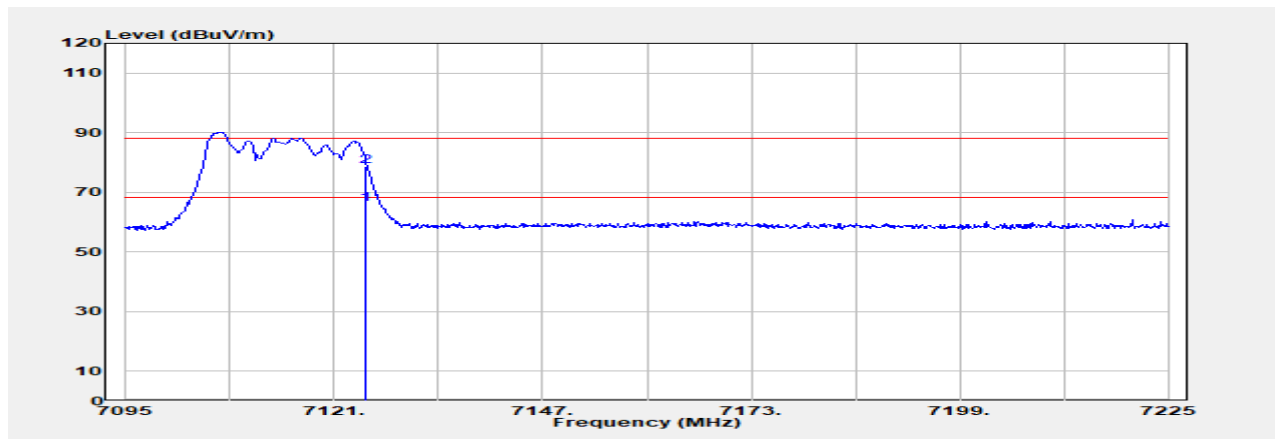
Temp./Humi. :21.7/69

Test Mode :BE CH HIGH RU FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	58.53	7.39	65.92	68.20	-2.28
7125.000	Peak	71.47	7.39	78.85	88.20	-9.35

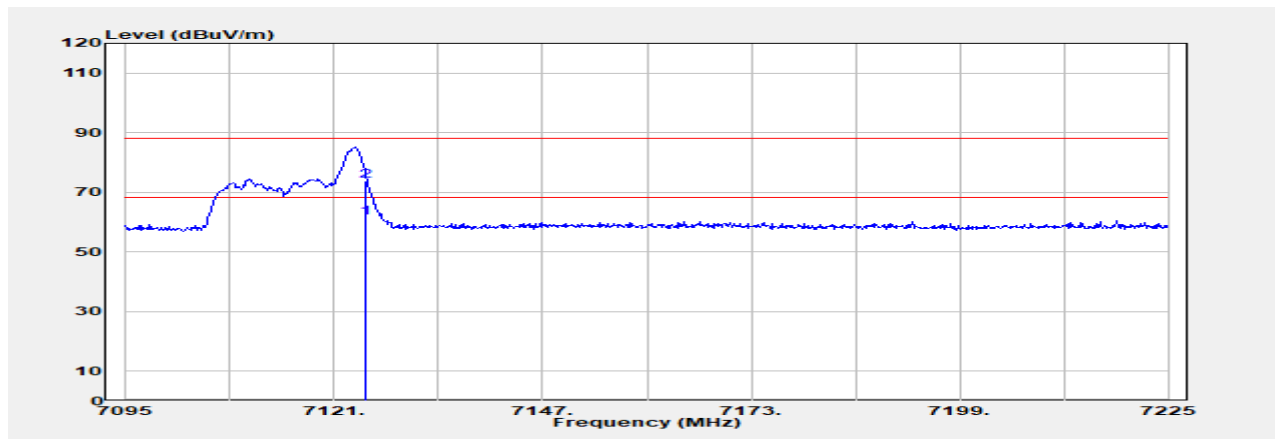
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Report Number :ER/2022/30012
 Operation Mode :802.11ax20
 Test Frequency :7115 MHz
 Test Mode :BE CH HIGH RU 26/8
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	54.02	7.39	61.41	68.20	-6.79
7125.000	Peak	66.55	7.39	73.93	88.20	-14.27

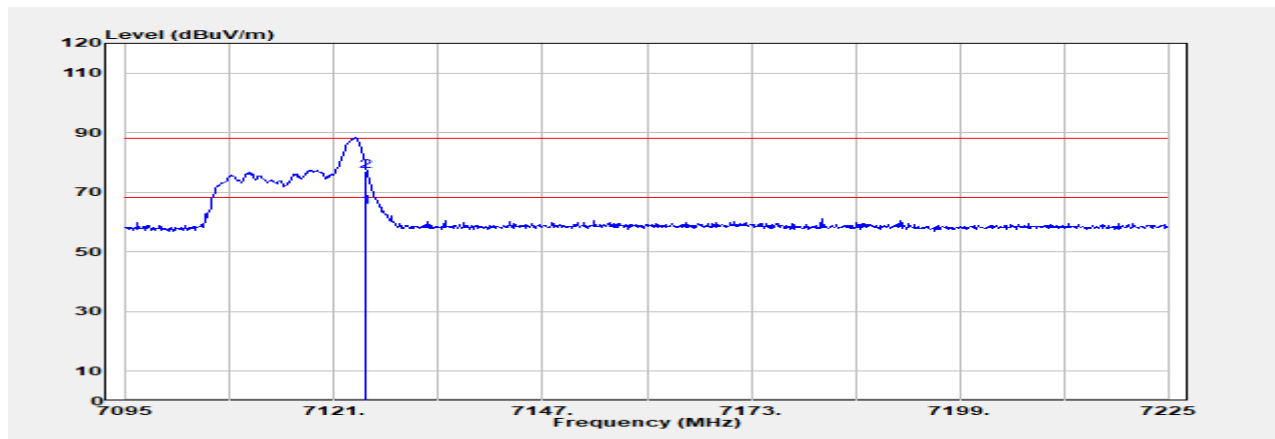
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Report Number :ER/2022/30012
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU 26/8
EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	57.64	7.39	65.02	68.20	-3.18
7125.000	Peak	69.82	7.39	77.20	88.20	-11.00

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-03-17

Test Frequency :7115 MHz

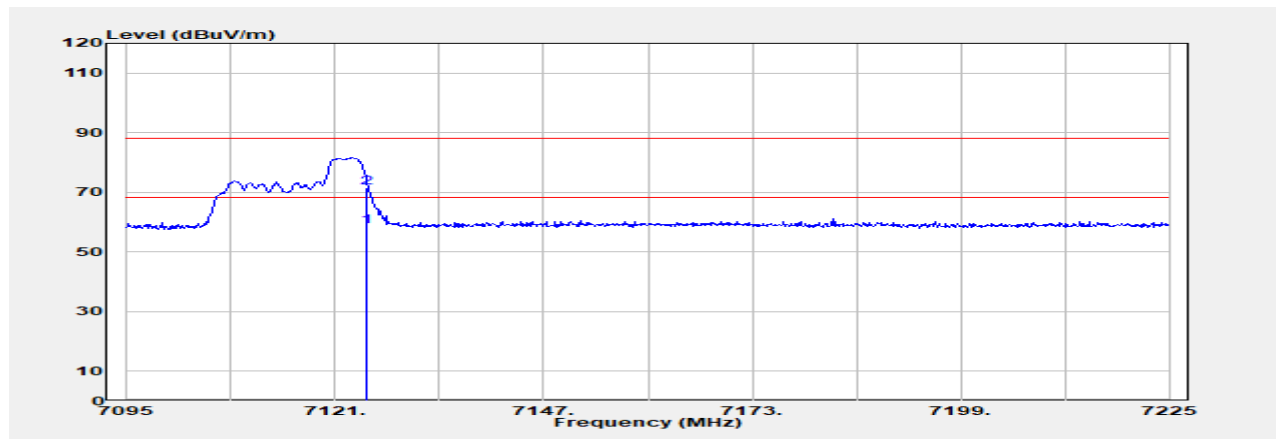
Temp./Humi. :21.7/69

Test Mode :BE CH HIGH RU 52/40

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Quentin Liu



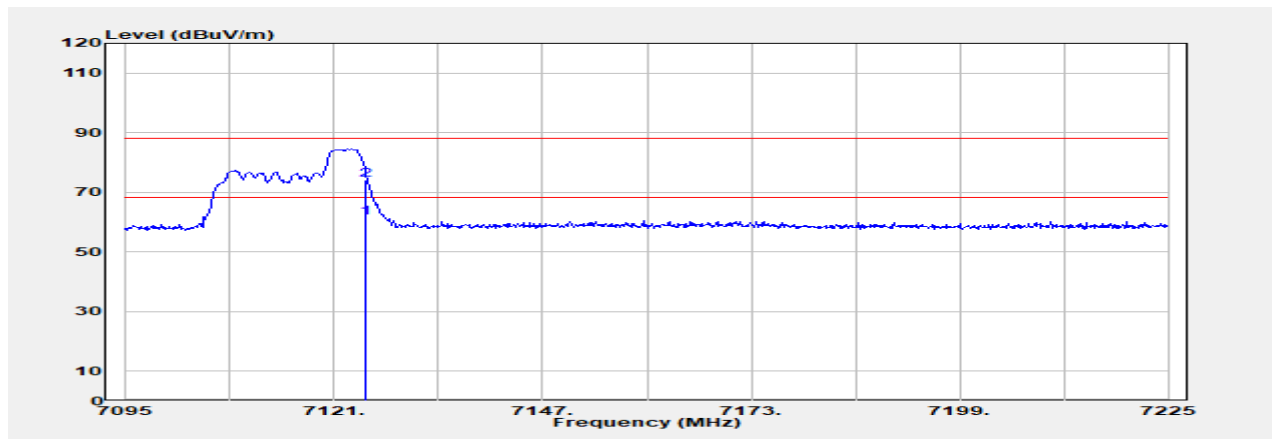
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	51.22	7.39	58.60	68.20	-9.60
7125.000	Peak	64.31	7.39	71.70	88.20	-16.50

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax20	Test Date	:2022-03-17
Test Frequency	:7115 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU 52/40	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	54.16	7.39	61.55	68.20	-6.65
7125.000	Peak	66.90	7.39	74.29	88.20	-13.91

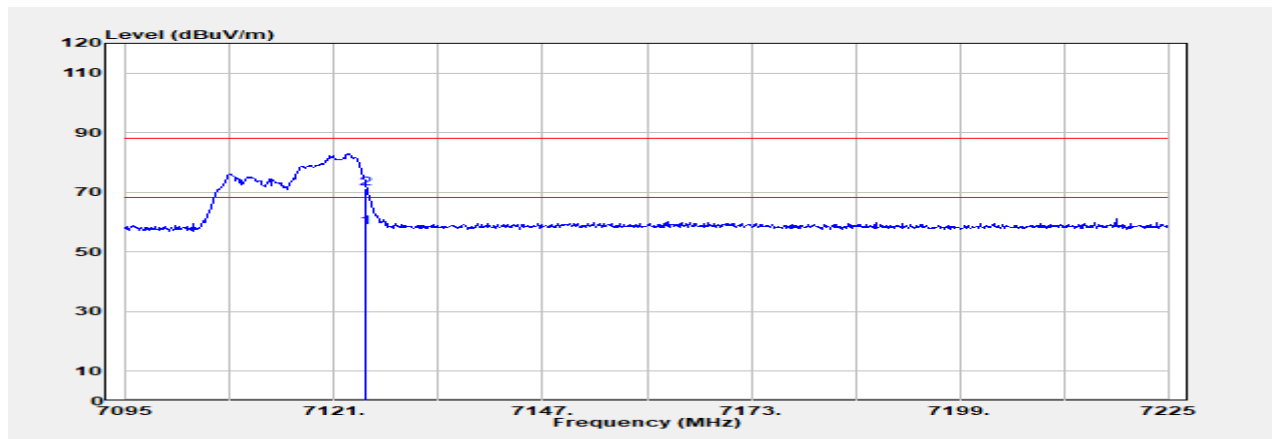
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Report Number :ER/2022/30012
 Operation Mode :802.11ax20
 Test Frequency :7115 MHz
 Test Mode :BE CH HIGH RU 106/54
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	50.94	7.39	58.33	68.20	-9.87
7125.000	Peak	63.87	7.39	71.26	88.20	-16.94

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-03-17

Test Frequency :7115 MHz

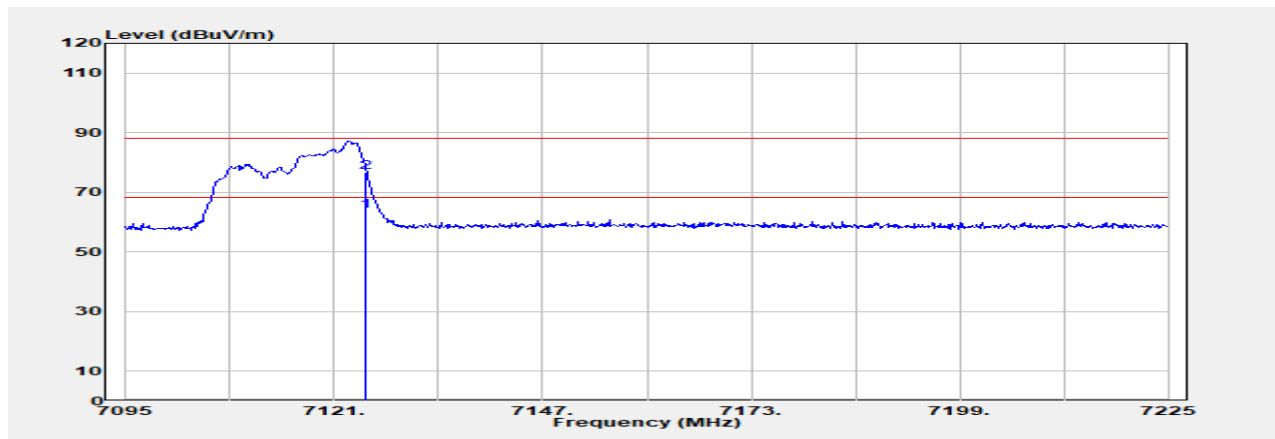
Temp./Humi. :21.7/69

Test Mode :BE CH HIGH RU 106/54

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Quentin Liu



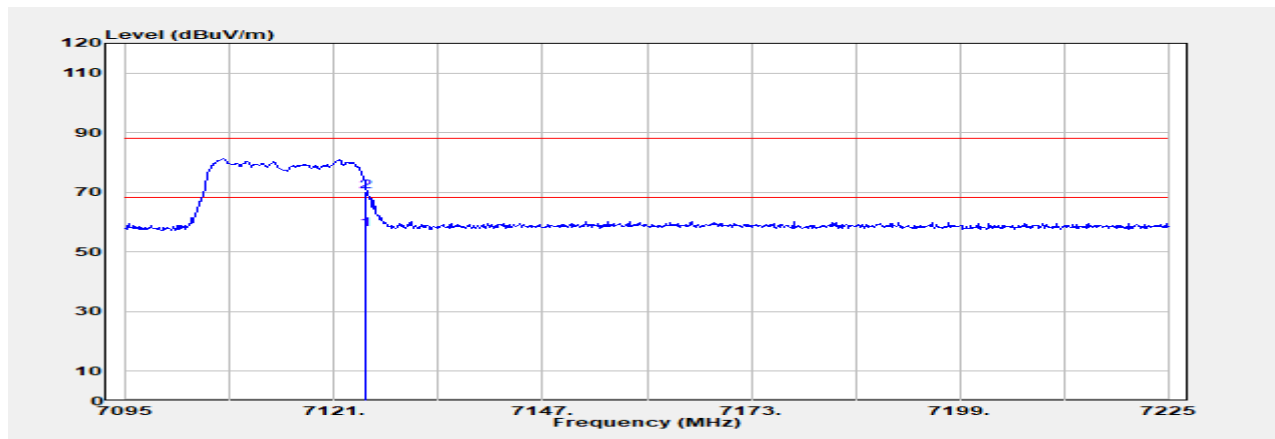
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	56.31	7.39	63.70	68.20	-4.50
7125.000	Peak	69.40	7.39	76.79	88.20	-11.41

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax20	Test Date	:2022-03-17
Test Frequency	:7115 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU 242/61	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	50.07	7.39	57.46	68.20	-10.74
7125.000	Peak	62.96	7.39	70.34	88.20	-17.86

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2022-03-17

Test Frequency :7115 MHz

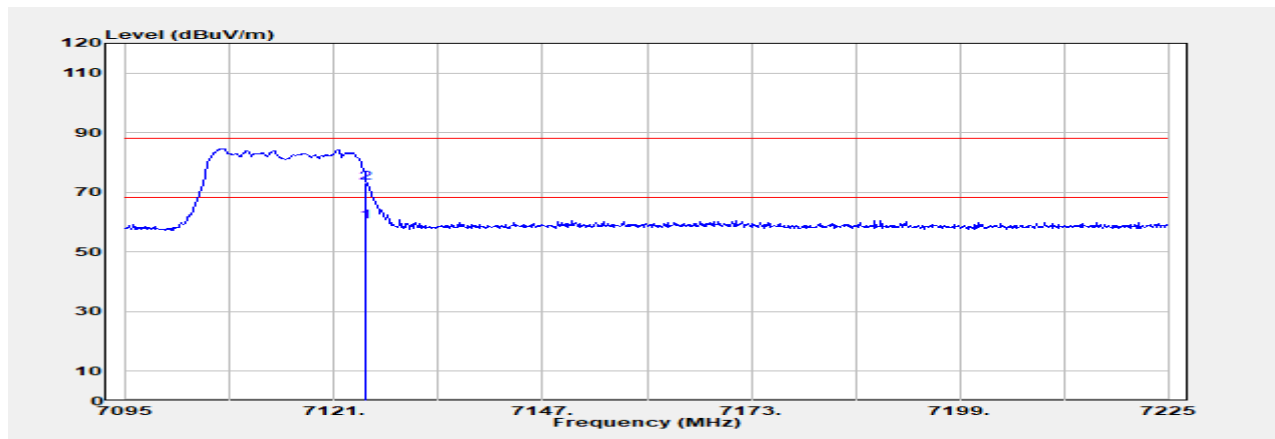
Temp./Humi. :21.7/69

Test Mode :BE CH HIGH RU 242/61

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	52.89	7.39	60.28	68.20	-7.92
7125.000	Peak	65.78	7.39	73.16	88.20	-15.04

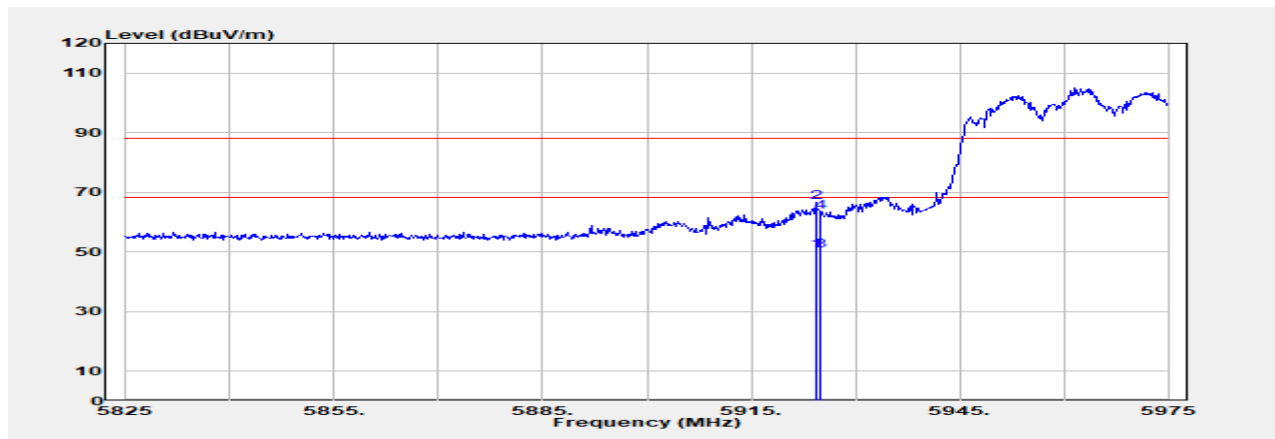
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Report Number :ER/2022/30012
 Operation Mode :802.11ax40
 Test Frequency :5965 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5924.300	Average	45.95	4.36	50.31	68.20	-17.89
5924.300	Peak	62.19	4.36	66.54	88.20	-21.66
5925.000	Average	45.98	4.36	50.33	68.20	-17.87
5925.000	Peak	58.93	4.36	63.28	88.20	-24.92

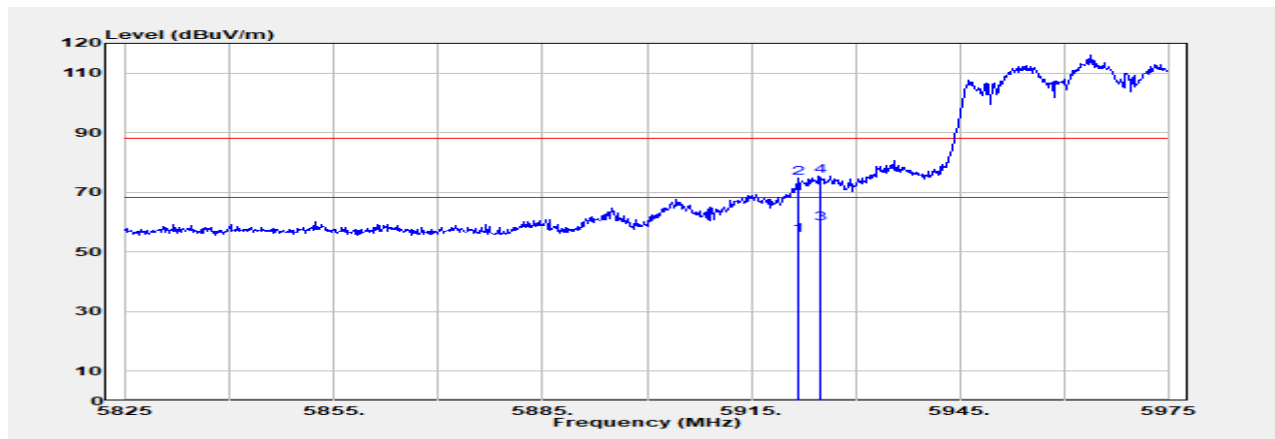
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Report Number :ER/2022/30012
 Operation Mode :802.11ax40
 Test Frequency :5965 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5921.750	Average	51.38	4.36	55.74	68.20	-12.46
5921.750	Peak	70.37	4.36	74.74	88.20	-13.46
5925.000	Average	55.06	4.36	59.42	68.20	-8.78
5925.000	Peak	71.03	4.36	75.38	88.20	-12.82

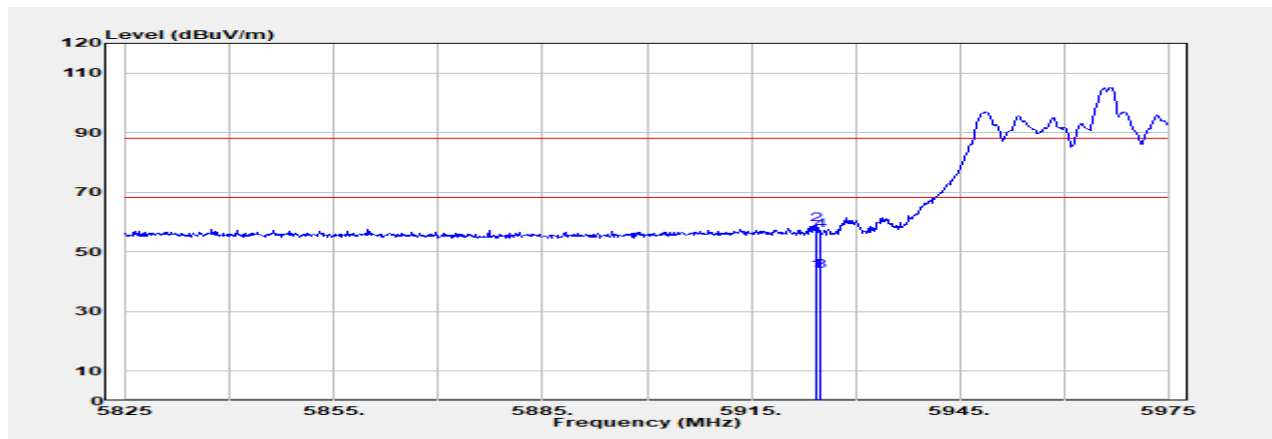
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Report Number :ER/2022/30012
 Operation Mode :802.11ax40
 Test Frequency :5965 MHz
 Test Mode :BE CH LOW RU 26/9
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5924.300	Average	39.25	4.36	43.61	68.20	-24.59
5924.300	Peak	54.89	4.36	59.25	88.20	-28.95
5925.000	Average	39.17	4.36	43.52	68.20	-24.68
5925.000	Peak	52.83	4.36	57.19	88.20	-31.01

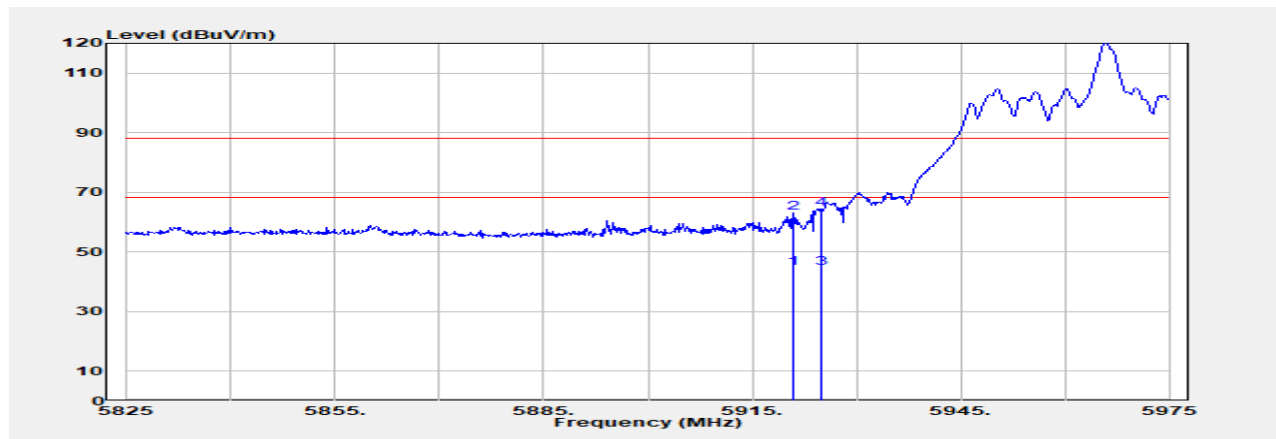
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Report Number :ER/2022/30012
Operation Mode :802.11ax40
Test Frequency :5965 MHz
Test Mode :BE CH LOW RU 26/9
EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5920.850	Average	40.19	4.37	44.55	68.20	-23.65
5920.850	Peak	58.60	4.37	62.97	88.20	-25.23
5925.000	Average	40.27	4.36	44.62	68.20	-23.58
5925.000	Peak	60.10	4.36	64.45	88.20	-23.75

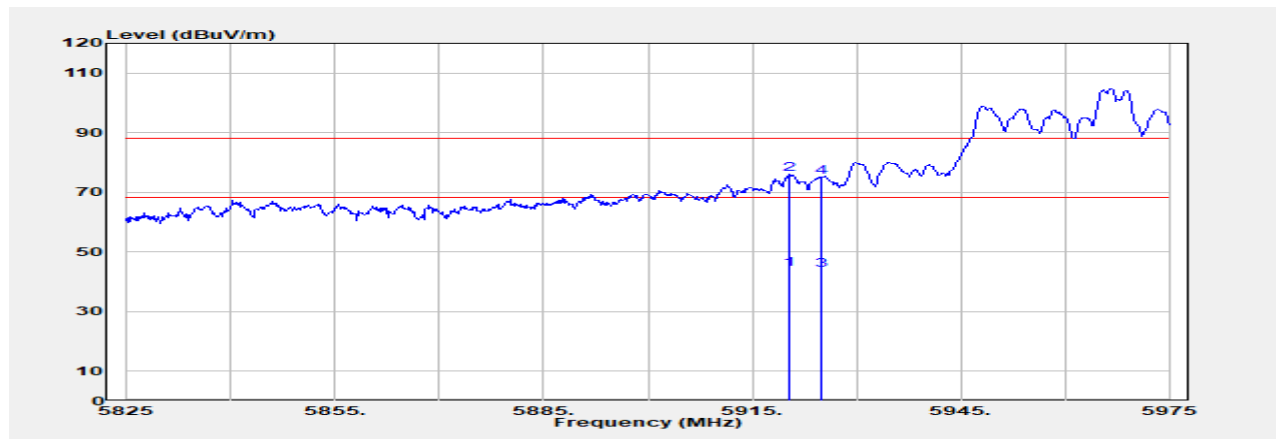
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Report Number :ER/2022/30012
Operation Mode :802.11ax40
Test Frequency :5965 MHz
Test Mode :BE CH LOW RU 52/41
EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5920.400	Average	39.77	4.37	44.14	68.20	-24.07
5920.400	Peak	71.83	4.37	76.20	88.20	-12.00
5925.000	Average	39.69	4.36	44.05	68.20	-24.15
5925.000	Peak	70.74	4.36	75.09	88.20	-13.11

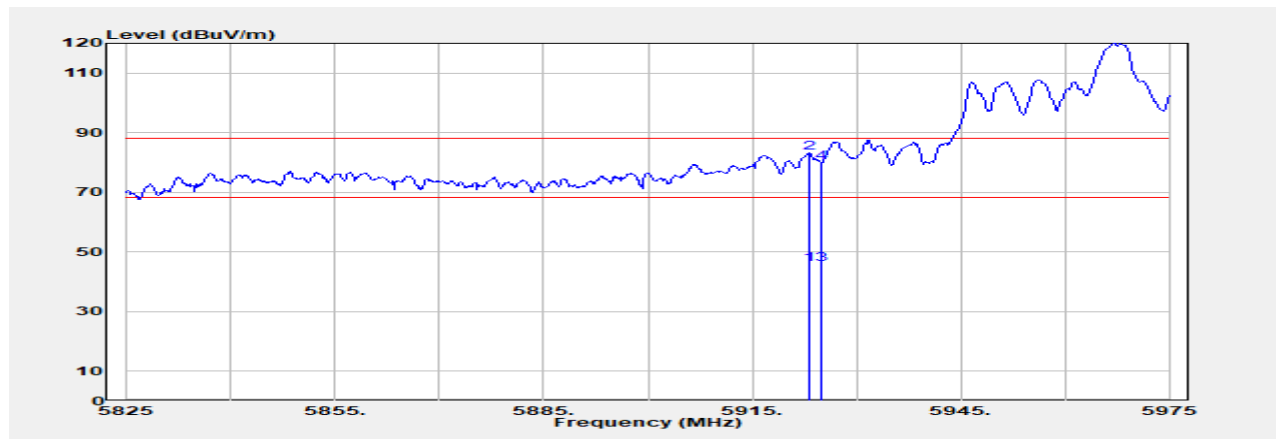
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Report Number :ER/2022/30012
Operation Mode :802.11ax40
Test Frequency :5965 MHz
Test Mode :BE CH LOW RU 52/41
EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5923.100	Average	41.54	4.36	45.90	68.20	-22.30
5923.100	Peak	78.88	4.36	83.24	88.20	-4.96
5925.000	Average	41.41	4.36	45.77	68.20	-22.43
5925.000	Peak	75.55	4.36	79.91	88.20	-8.29

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2022-03-17

Test Frequency :5965 MHz

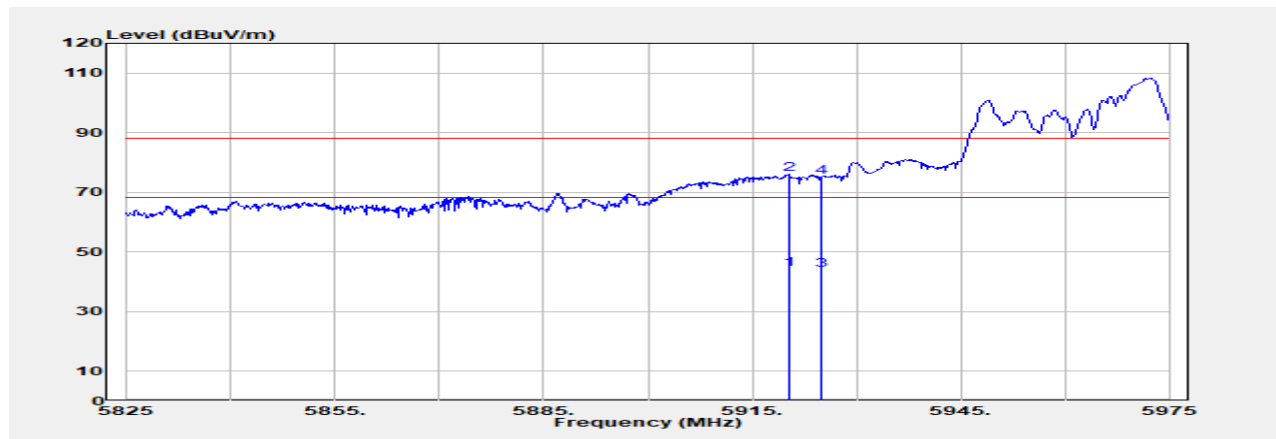
Temp./Humi. :21.7/69

Test Mode :BE CH LOW RU 106/63

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5920.250	Average	39.75	4.37	44.12	68.20	-24.08
5920.250	Peak	71.60	4.37	75.97	88.20	-12.23
5925.000	Average	39.67	4.36	44.02	68.20	-24.18
5925.000	Peak	70.90	4.36	75.26	88.20	-12.94

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2022-03-17

Test Frequency :5965 MHz

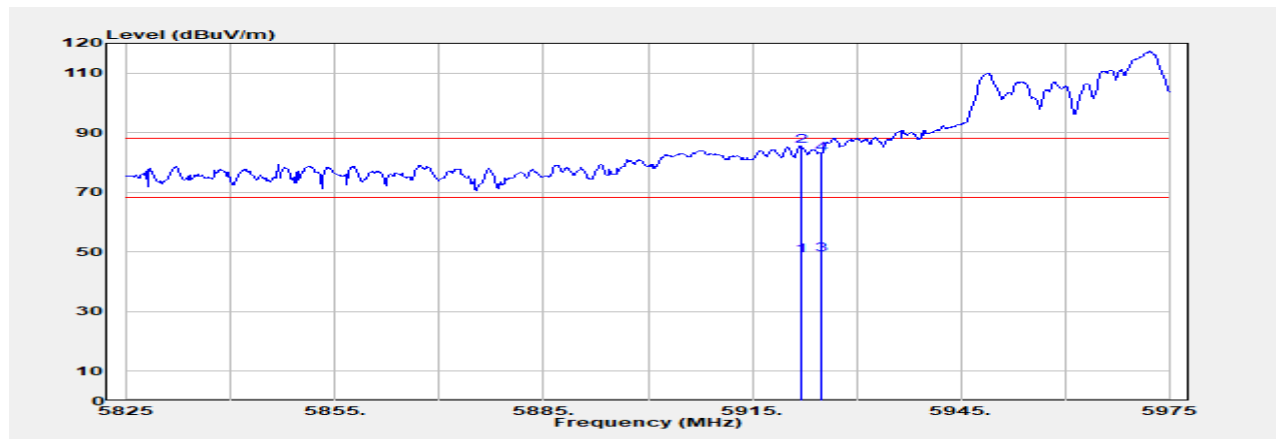
Temp./Humi. :21.7/69

Test Mode :BE CH LOW RU 106/63

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5922.050	Average	44.49	4.36	48.86	68.20	-19.34
5922.050	Peak	81.08	4.36	85.45	88.20	-2.75
5925.000	Average	44.74	4.36	49.09	68.20	-19.11
5925.000	Peak	78.63	4.36	82.98	88.20	-5.22

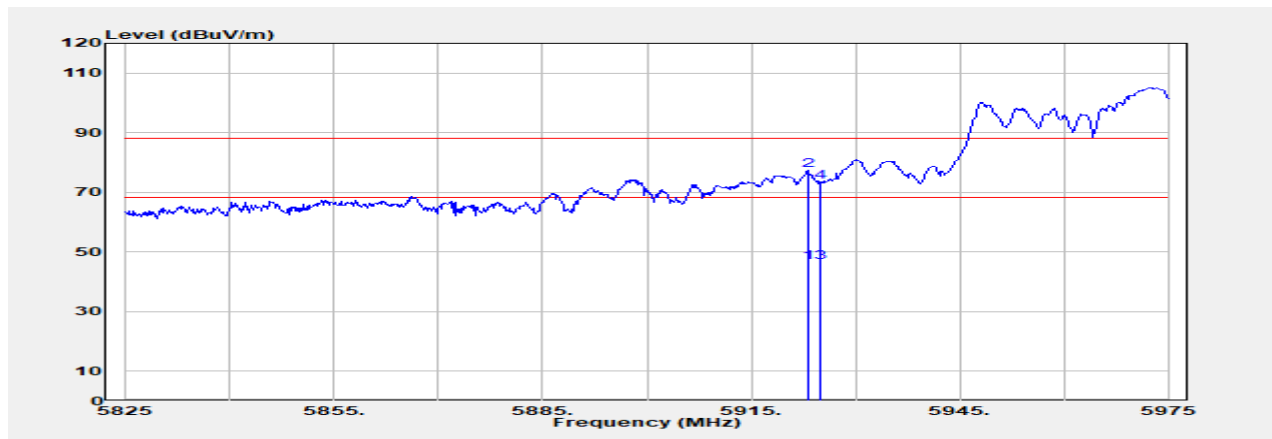
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Report Number :ER/2022/30012
 Operation Mode :802.11ax40
 Test Frequency :5965 MHz
 Test Mode :BE CH LOW RU 242/63
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5923.100	Average	42.04	4.36	46.40	68.20	-21.80
5923.100	Peak	72.99	4.36	77.35	88.20	-10.85
5925.000	Average	42.17	4.36	46.53	68.20	-21.67
5925.000	Peak	69.03	4.36	73.38	88.20	-14.82

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2022-03-17

Test Frequency :5965 MHz

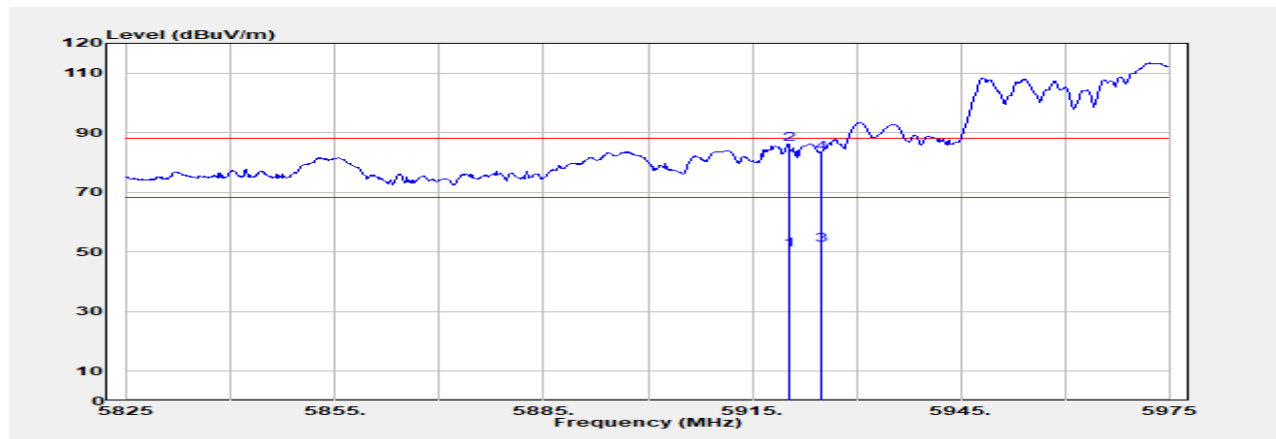
Temp./Humi. :21.7/69

Test Mode :BE CH LOW RU 242/63

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5920.250	Average	46.28	4.37	50.65	68.20	-17.55
5920.250	Peak	81.80	4.37	86.17	88.20	-2.03
5925.000	Average	47.86	4.36	52.21	68.20	-15.99
5925.000	Peak	78.95	4.36	83.30	88.20	-4.90

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2022-03-17

Test Frequency :5965 MHz

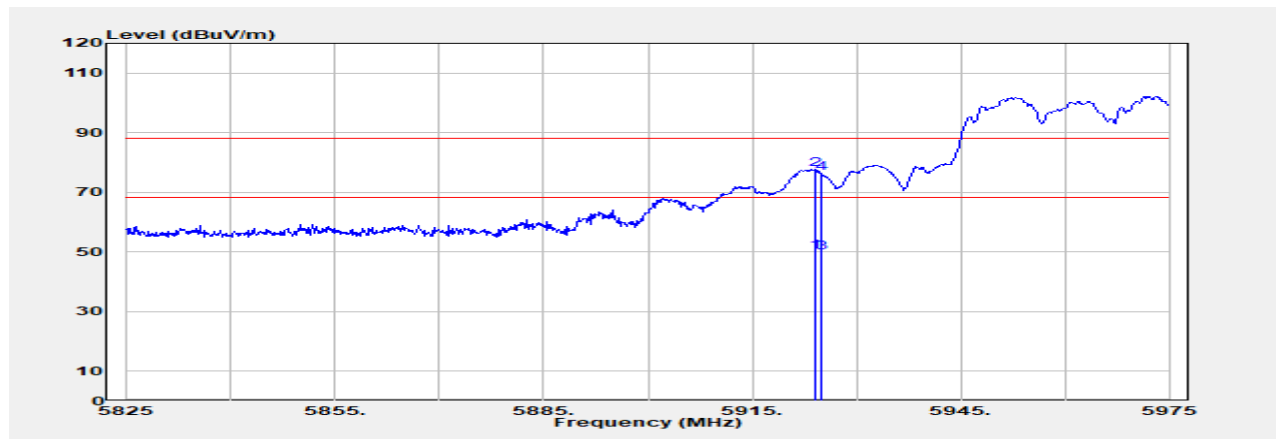
Temp./Humi. :21.7/69

Test Mode :BE CH LOW RU 484/65

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5924.150	Average	45.88	4.36	50.24	68.20	-17.96
5924.150	Peak	73.48	4.36	77.83	88.20	-10.37
5925.000	Average	45.41	4.36	49.76	68.20	-18.44
5925.000	Peak	71.92	4.36	76.27	88.20	-11.93

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2022-03-17

Test Frequency :5965 MHz

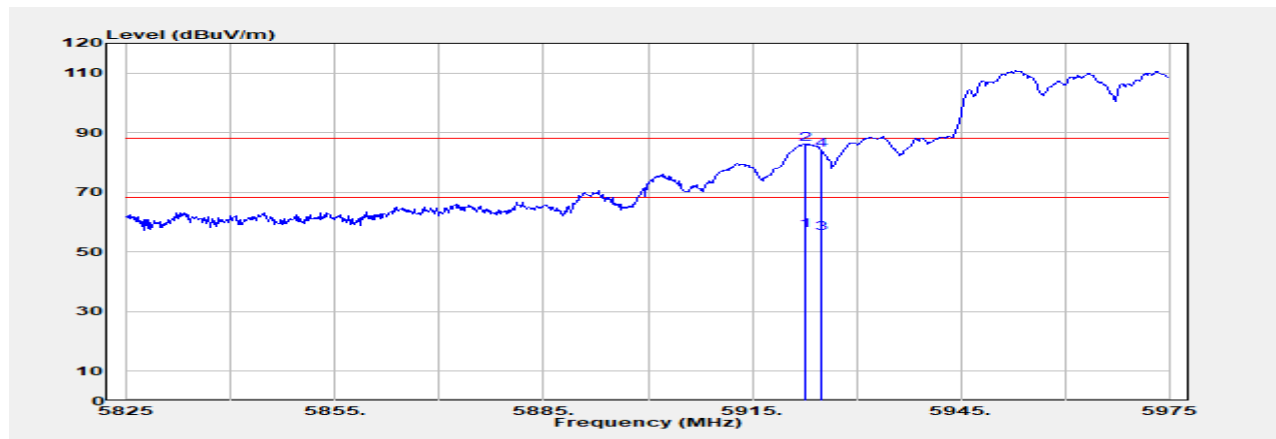
Temp./Humi. :21.7/69

Test Mode :BE CH LOW RU 484/65

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Quentin Liu



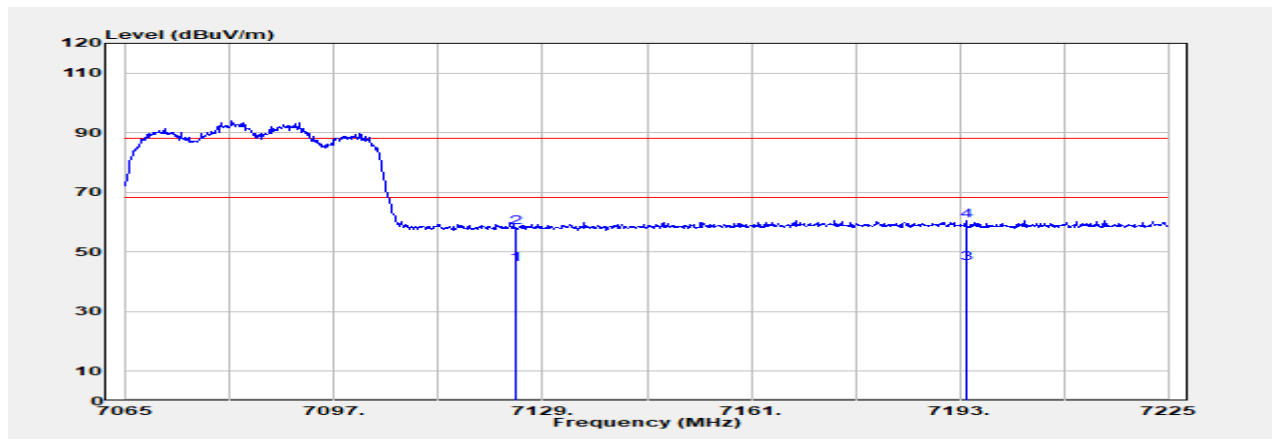
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5922.650	Average	52.88	4.36	57.24	68.20	-10.96
5922.650	Peak	81.81	4.36	86.17	88.20	-2.03
5925.000	Average	51.93	4.36	56.29	68.20	-11.91
5925.000	Peak	79.78	4.36	84.13	88.20	-4.07

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax40	Test Date	:2022-03-17
Test Frequency	:7085 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU FULL	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Quentin Liu



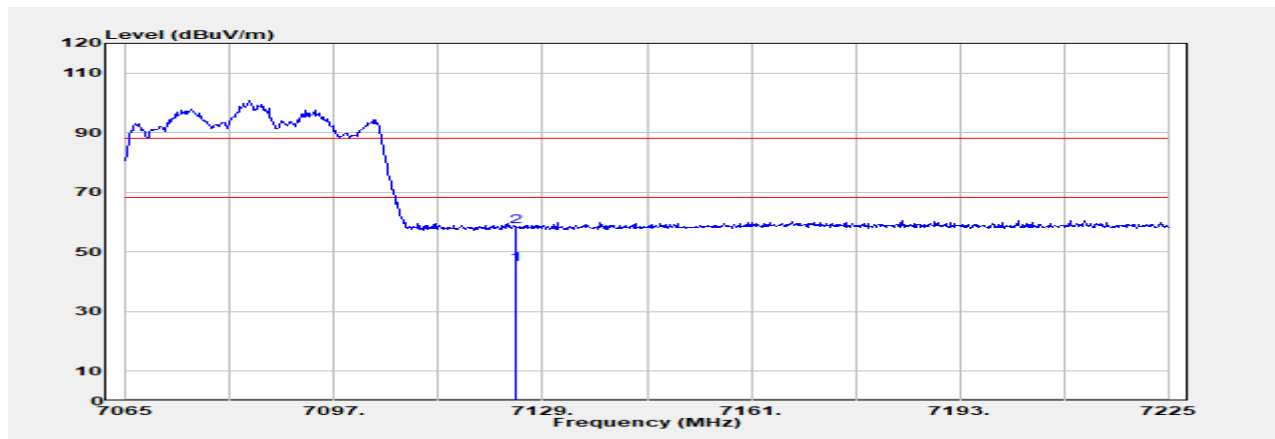
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.33	7.39	45.72	68.20	-22.48
7125.000	Peak	50.68	7.39	58.06	88.20	-30.14
7193.960	Average	39.02	7.25	46.28	68.20	-21.92
7193.960	Peak	53.33	7.25	60.58	88.20	-27.62

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax40	Test Date	:2022-03-17
Test Frequency	:7085 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU FULL	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.42	7.39	45.81	68.20	-22.39
7125.000	Peak	51.21	7.39	58.60	88.20	-29.60

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2022-03-17

Test Frequency :7085 MHz

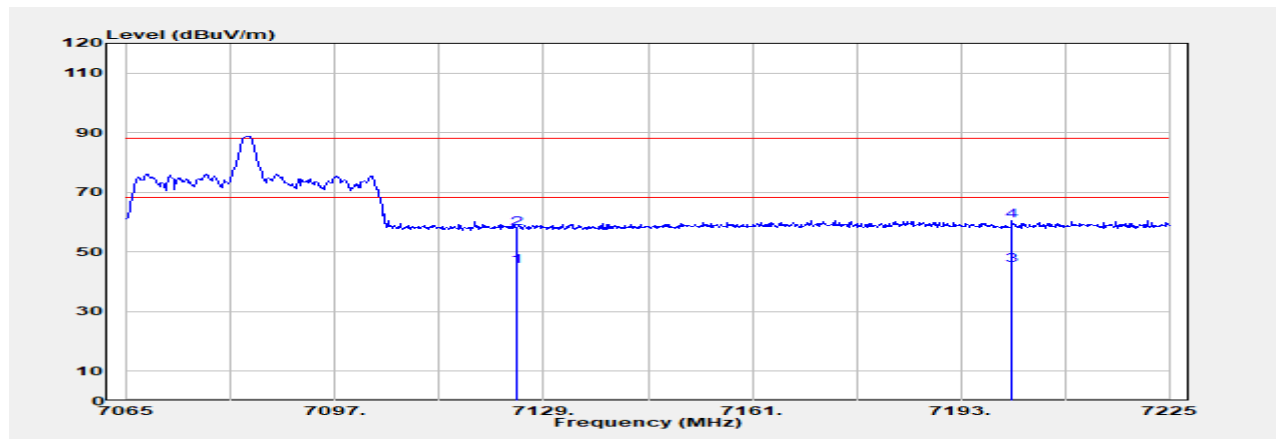
Temp./Humi. :21.7/69

Test Mode :BE CH HIGH RU 26/27

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Quentin Liu



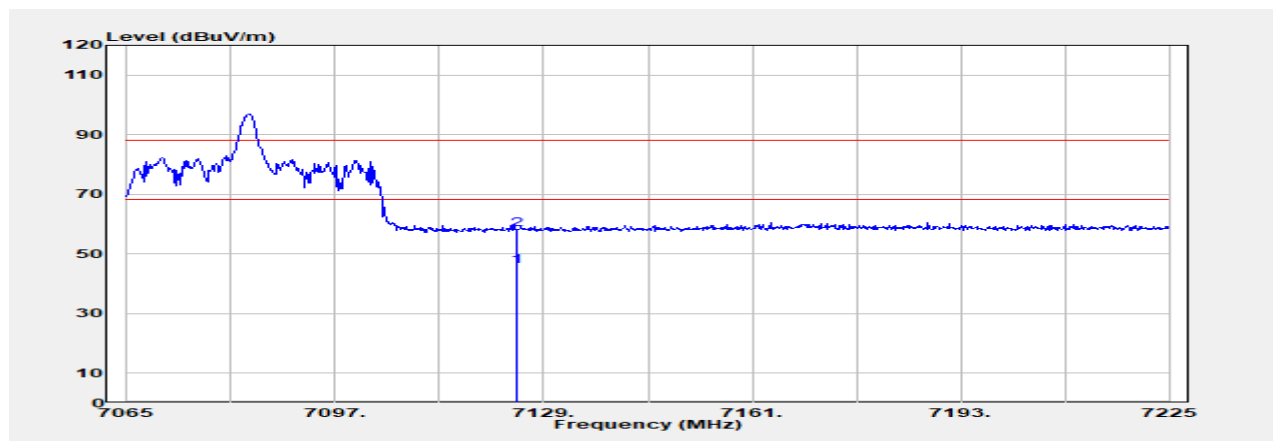
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	37.83	7.39	45.22	68.20	-22.98
7125.000	Peak	50.38	7.39	57.76	88.20	-30.44
7200.840	Average	38.50	7.15	45.65	68.20	-22.55
7200.840	Peak	53.43	7.15	60.58	88.20	-27.62

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax40	Test Date	:2022-03-17
Test Frequency	:7085 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU 26/27	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.40	7.39	45.78	68.20	-22.42
7125.000	Peak	50.87	7.39	58.25	88.20	-29.95

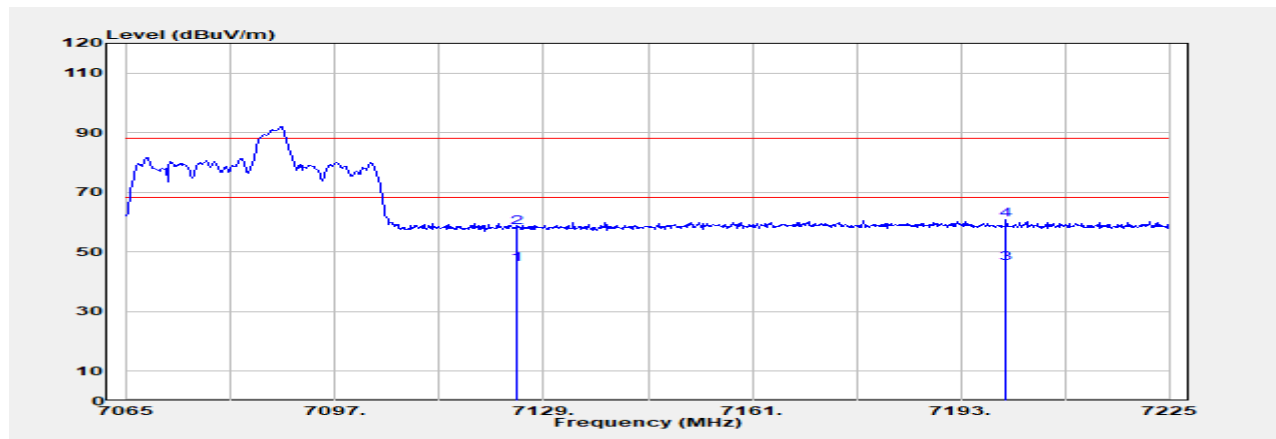
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Report Number :ER/2022/30012
Operation Mode :802.11ax40
Test Frequency :7085 MHz
Test Mode :BE CH HIGH RU 52/41
EUT Pol :NB Plane

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



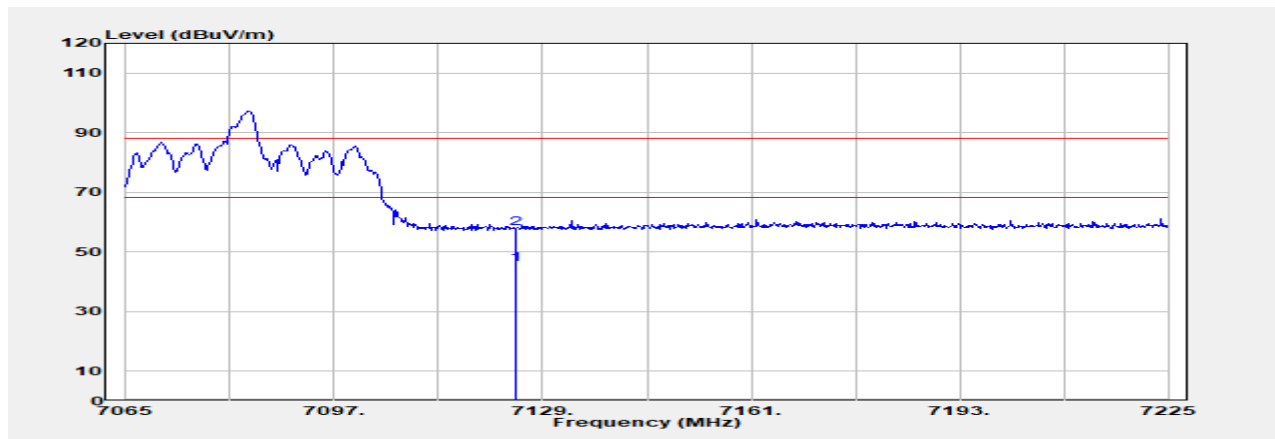
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.35	7.39	45.73	68.20	-22.47
7125.000	Peak	50.75	7.39	58.13	88.20	-30.07
7200.040	Average	38.97	7.14	46.11	68.20	-22.09
7200.040	Peak	53.64	7.14	60.78	88.20	-27.42

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax40	Test Date	:2022-03-17
Test Frequency	:7085 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU 52/41	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.44	7.39	45.82	68.20	-22.38
7125.000	Peak	50.42	7.39	57.81	88.20	-30.39

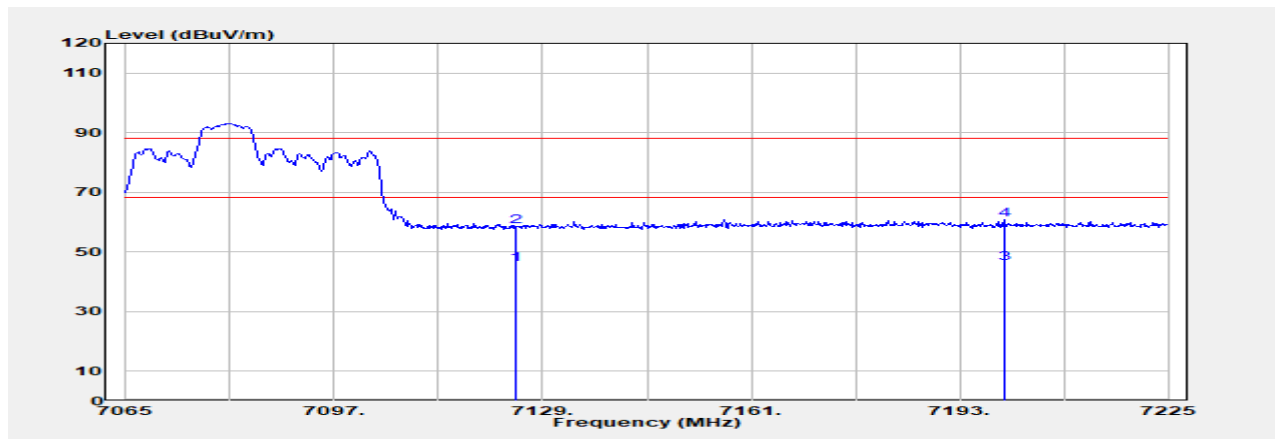
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Report Number :ER/2022/30012
 Operation Mode :802.11ax40
 Test Frequency :7085 MHz
 Test Mode :BE CH HIGH RU 106/58
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.40	7.39	45.79	68.20	-22.41
7125.000	Peak	51.26	7.39	58.64	88.20	-29.56
7199.880	Average	39.13	7.14	46.28	68.20	-21.92
7199.880	Peak	53.81	7.14	60.96	88.20	-27.24

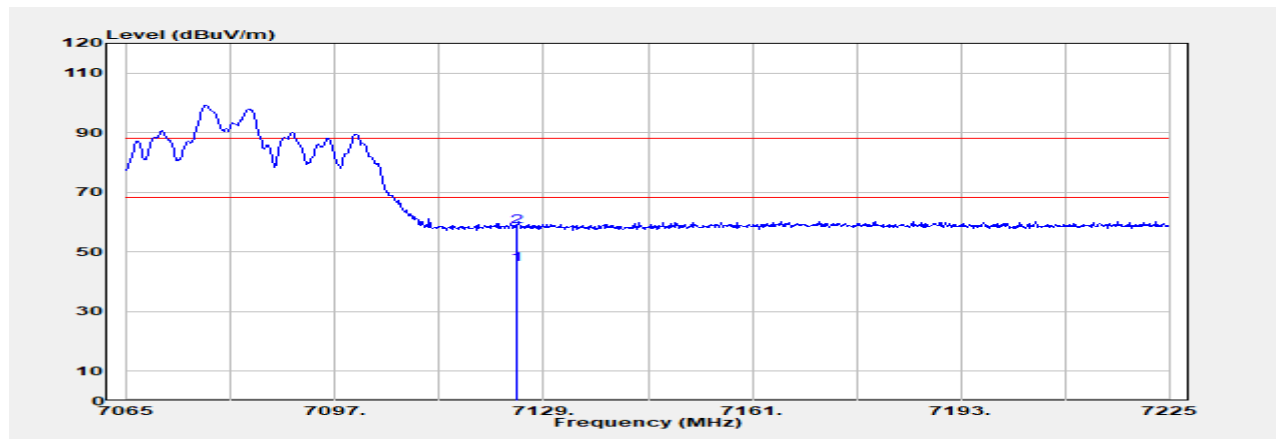
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Report Number :ER/2022/30012
Operation Mode :802.11ax40
Test Frequency :7085 MHz
Test Mode :BE CH HIGH RU 106/58
EUT Pol :NB Plane

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



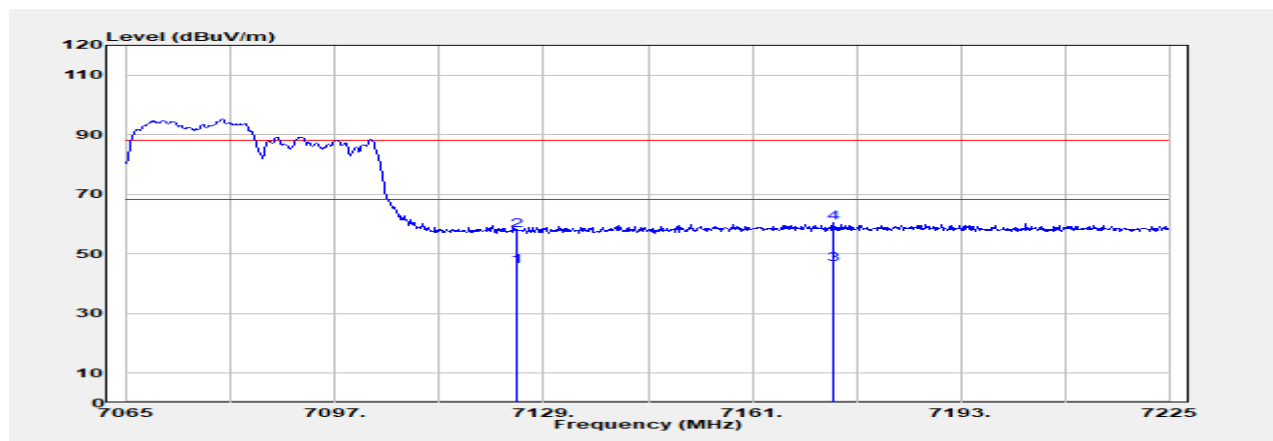
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.40	7.39	45.78	68.20	-22.42
7125.000	Peak	51.00	7.39	58.39	88.20	-29.81

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax40	Test Date	:2022-03-17
Test Frequency	:7085 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU 242/62	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Quentin Liu



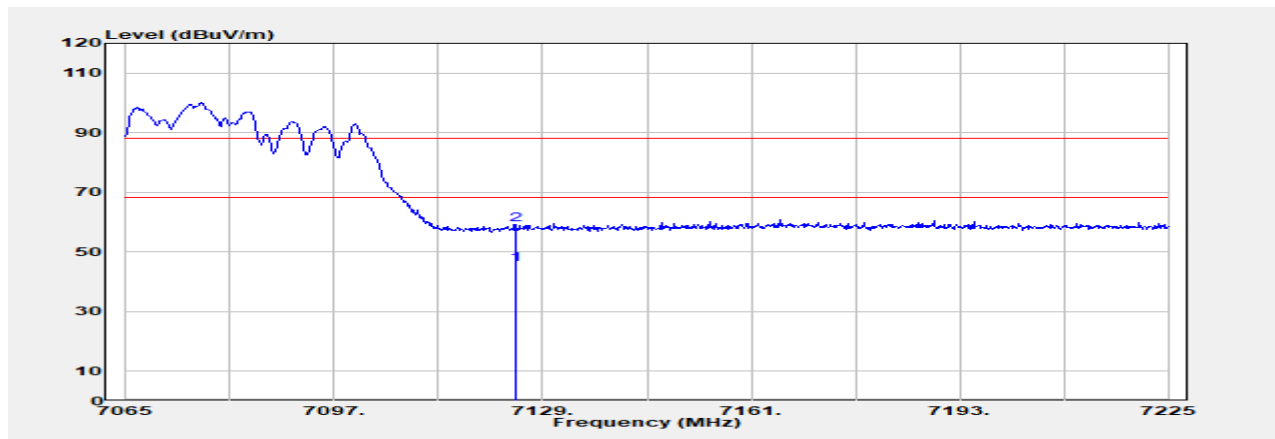
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.47	7.39	45.85	68.20	-22.35
7125.000	Peak	50.48	7.39	57.87	88.20	-30.33
7173.320	Average	38.80	7.71	46.51	68.20	-21.69
7173.320	Peak	52.84	7.71	60.55	88.20	-27.65

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax40	Test Date	:2022-03-17
Test Frequency	:7085 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU 242/62	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.42	7.39	45.80	68.20	-22.40
7125.000	Peak	51.79	7.39	59.17	88.20	-29.03

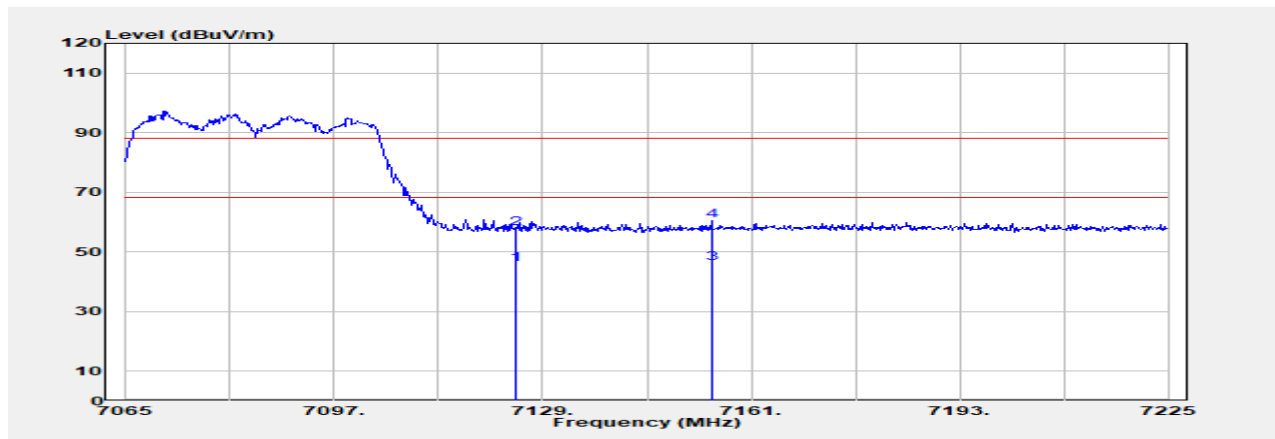
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Report Number :ER/2022/30012
Operation Mode :802.11ax40
Test Frequency :7085 MHz
Test Mode :BE CH HIGH RU 484/65
EUT Pol :NB Plane

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



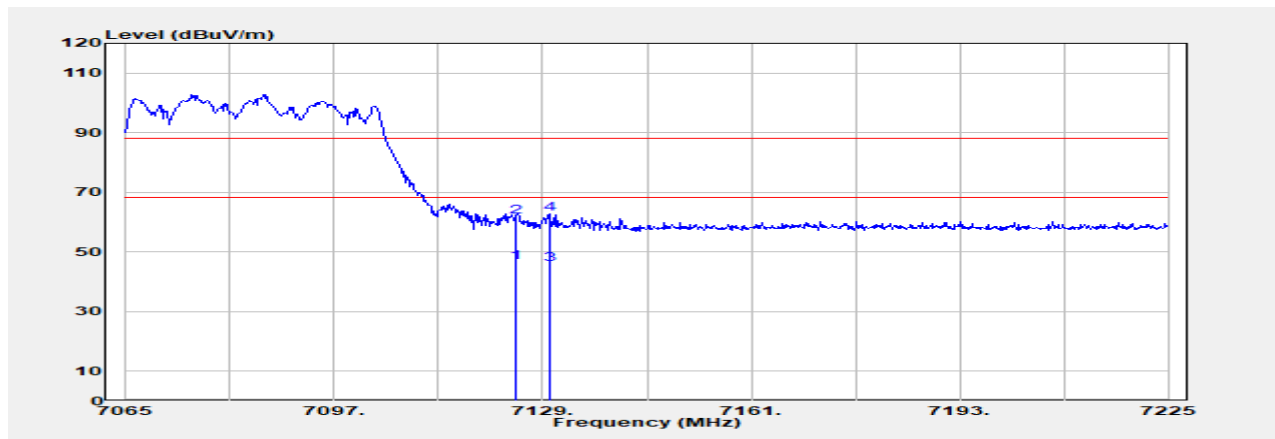
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.52	7.39	45.90	68.20	-22.30
7125.000	Peak	50.46	7.39	57.84	88.20	-30.36
7154.920	Average	38.50	7.63	46.13	68.20	-22.07
7154.920	Peak	52.95	7.63	60.58	88.20	-27.62

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax40	Test Date	:2022-03-17
Test Frequency	:7085 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU 484/65	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	39.25	7.39	46.63	68.20	-21.57
7125.000	Peak	54.37	7.39	61.75	88.20	-26.45
7129.960	Average	38.47	7.53	46.00	68.20	-22.20
7129.960	Peak	55.09	7.53	62.62	88.20	-25.58

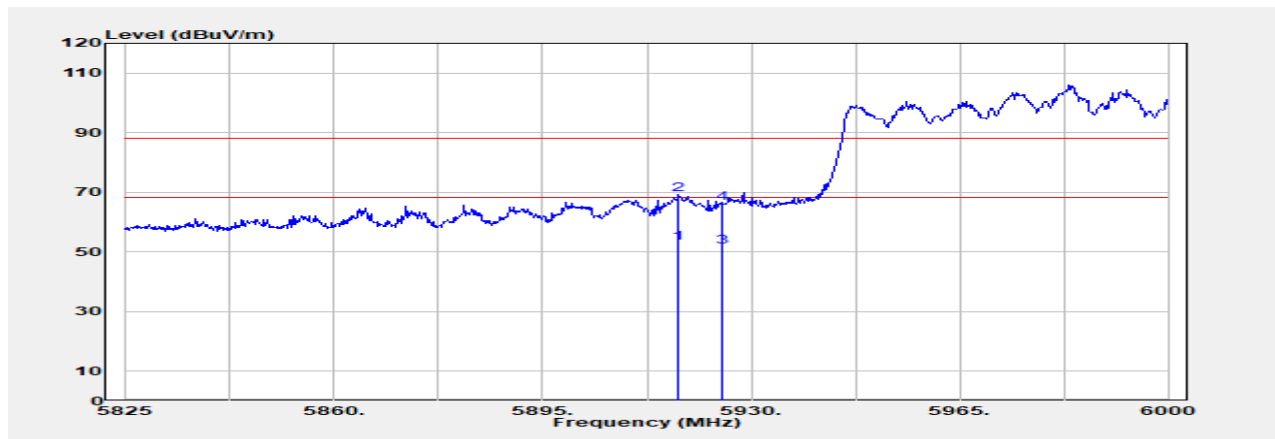
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Report Number :ER/2022/30012
 Operation Mode :802.11ax80
 Test Frequency :5985 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5917.750	Average	48.66	4.38	53.03	68.20	-15.17
5917.750	Peak	64.76	4.38	69.14	88.20	-19.06
5925.000	Average	47.36	4.36	51.72	68.20	-16.48
5925.000	Peak	62.02	4.36	66.37	88.20	-21.83

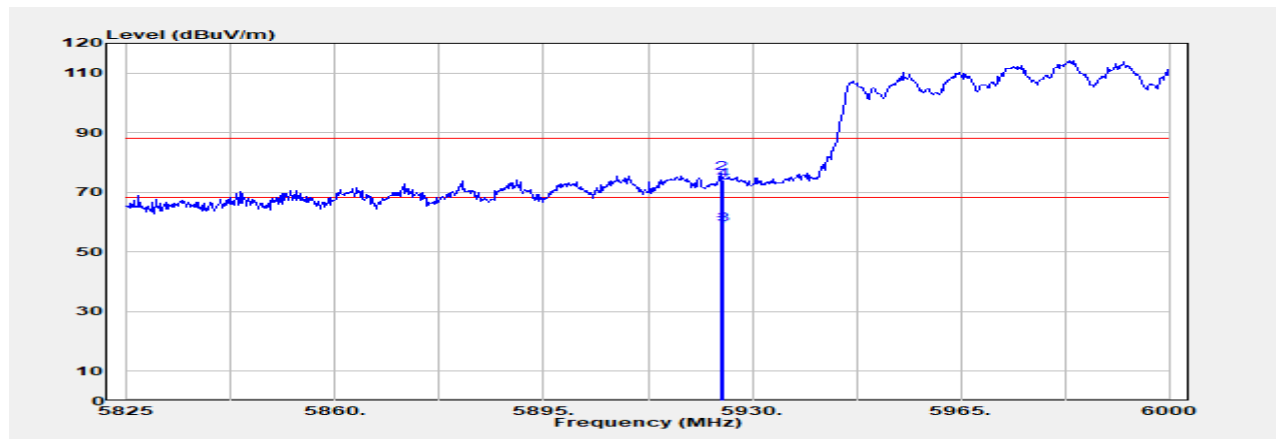
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Report Number :ER/2022/30012
Operation Mode :802.11ax80
Test Frequency :5985 MHz
Test Mode :BE CH LOW RU FULL
EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5924.750	Average	54.27	4.36	58.63	68.20	-9.57
5924.750	Peak	71.91	4.36	76.26	88.20	-11.94
5925.000	Average	54.67	4.36	59.03	68.20	-9.17
5925.000	Peak	69.90	4.36	74.25	88.20	-13.95

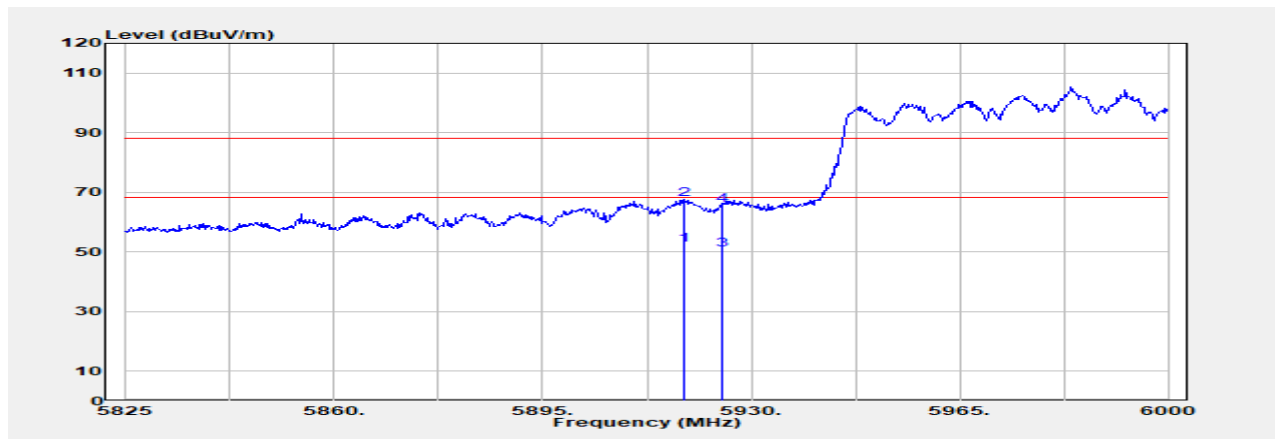
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Report Number :ER/2022/30012
 Operation Mode :802.11ax80
 Test Frequency :5985 MHz
 Test Mode :BE CH LOW RU 966/67
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5918.625	Average	47.89	4.37	52.27	68.20	-15.93
5918.625	Peak	63.42	4.37	67.79	88.20	-20.41
5925.000	Average	46.24	4.36	50.59	68.20	-17.61
5925.000	Peak	61.41	4.36	65.76	88.20	-22.44

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax80

Test Date :2022-03-17

Test Frequency :5985 MHz

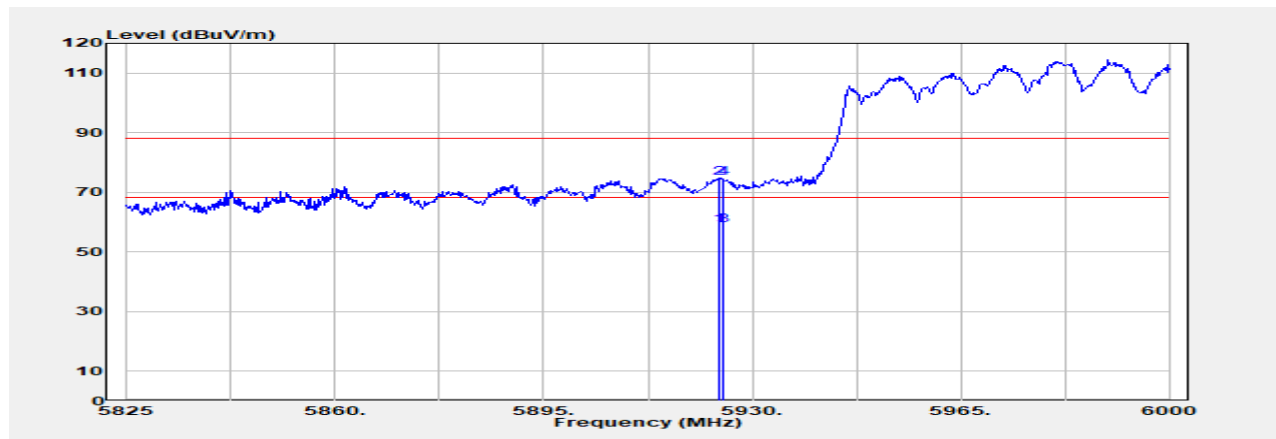
Temp./Humi. :21.7/69

Test Mode :BE CH LOW RU 966/67

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5924.400	Average	54.46	4.36	58.81	68.20	-9.39
5924.400	Peak	70.47	4.36	74.83	88.20	-13.37
5925.000	Average	54.40	4.36	58.76	68.20	-9.44
5925.000	Peak	70.33	4.36	74.68	88.20	-13.52

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax80

Test Date :2022-03-17

Test Frequency :7025 MHz

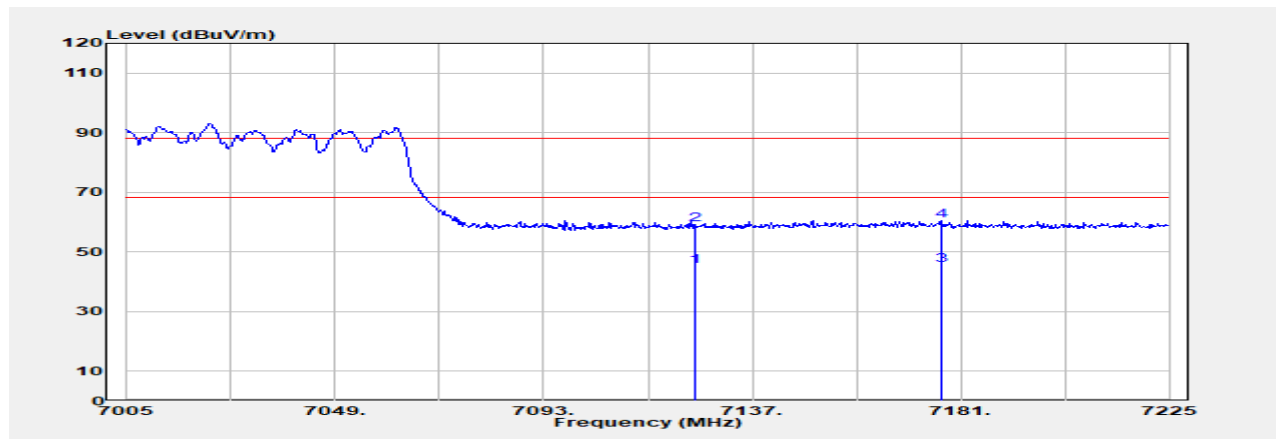
Temp./Humi. :21.7/69

Test Mode :BE CH HIGH RU FULL

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Quentin Liu



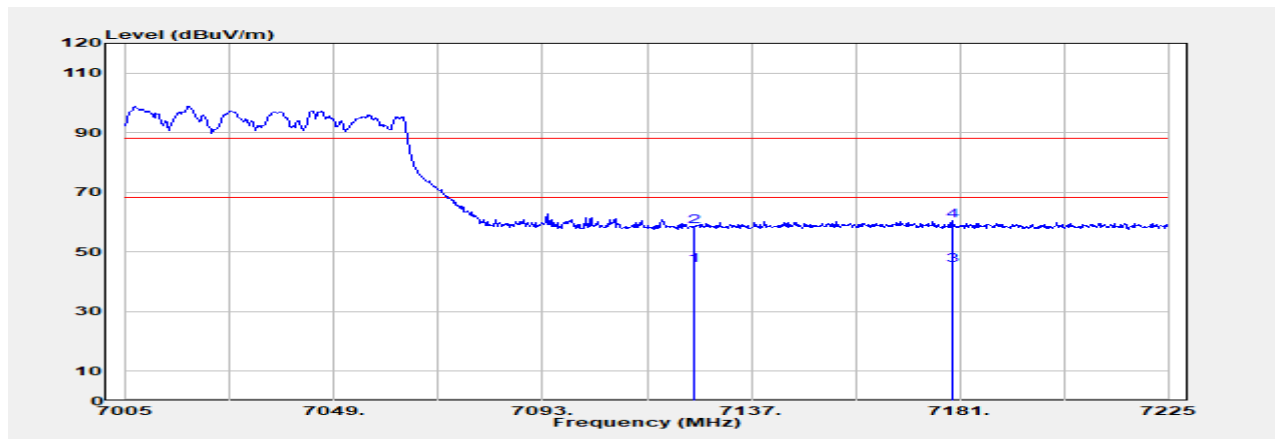
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	37.87	7.39	45.26	68.20	-22.94
7125.000	Peak	51.71	7.39	59.10	88.20	-29.10
7177.040	Average	38.01	7.54	45.55	68.20	-22.65
7177.040	Peak	53.00	7.54	60.54	88.20	-27.66

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax80	Test Date	:2022-03-17
Test Frequency	:7025 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU FULL	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Quentin Liu



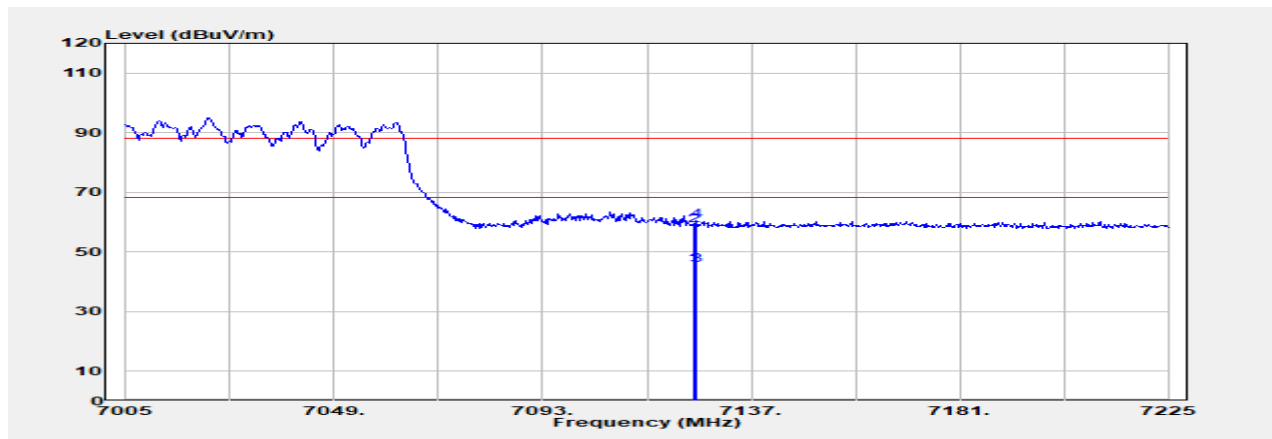
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.08	7.39	45.46	68.20	-22.74
7125.000	Peak	51.29	7.39	58.68	88.20	-29.52
7179.460	Average	37.95	7.43	45.39	68.20	-22.81
7179.460	Peak	53.10	7.43	60.54	88.20	-27.66

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax80	Test Date	:2022-03-17
Test Frequency	:7025 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU 966/67	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Quentin Liu



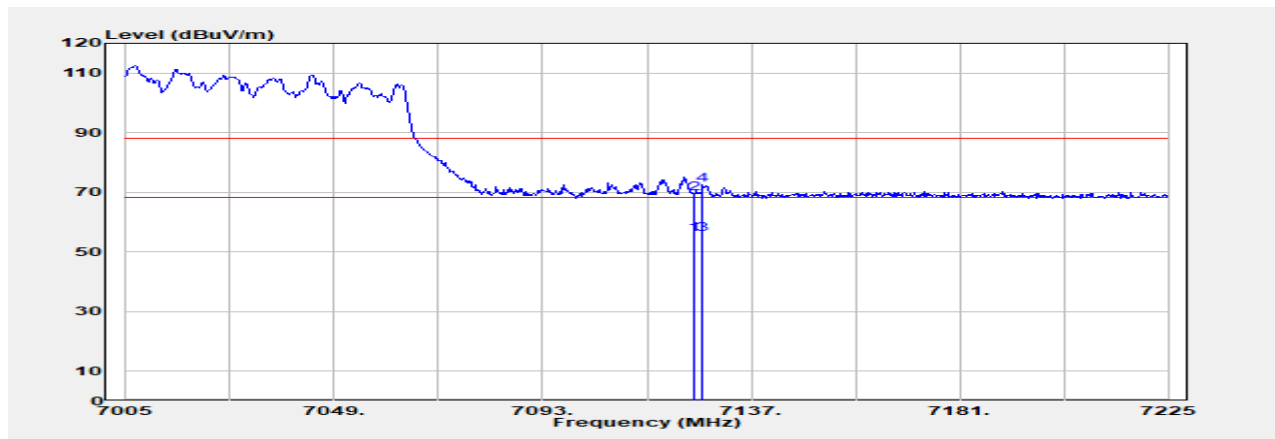
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	37.99	7.39	45.37	68.20	-22.83
7125.000	Peak	51.64	7.39	59.02	88.20	-29.18
7125.560	Average	37.98	7.40	45.38	68.20	-22.82
7125.560	Peak	53.08	7.40	60.48	88.20	-27.72

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax80	Test Date	:2022-03-17
Test Frequency	:7025 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU 966/67	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	48.62	7.39	56.00	68.20	-12.20
7125.000	Peak	62.22	7.39	69.60	88.20	-18.60
7126.660	Average	48.51	7.43	55.95	68.20	-12.25
7126.660	Peak	65.17	7.43	72.61	88.20	-15.59

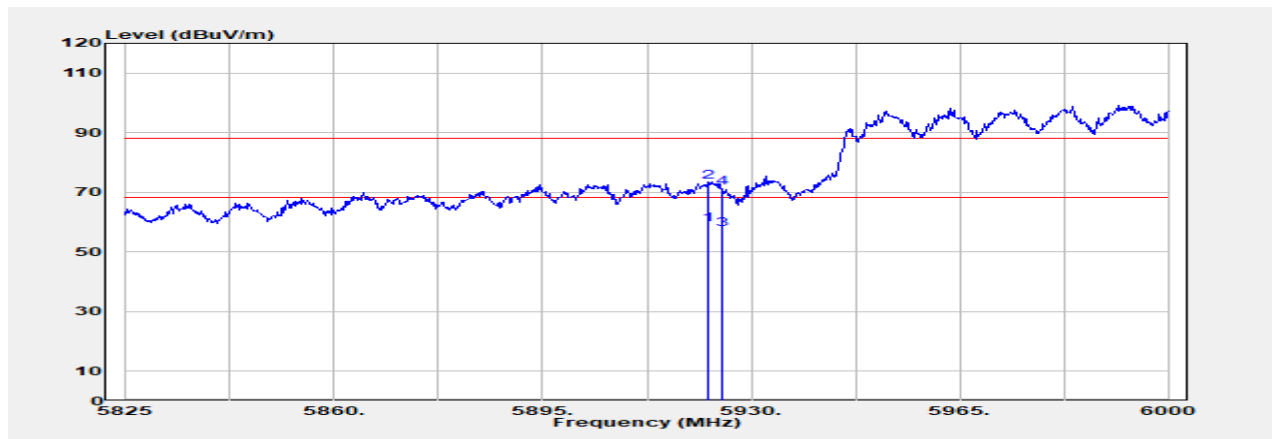
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Report Number :ER/2022/30012
 Operation Mode :802.11ax160
 Test Frequency :6025 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5922.650	Average	54.83	4.36	59.19	68.20	-9.01
5922.650	Peak	69.18	4.36	73.54	88.20	-14.66
5925.000	Average	53.34	4.36	57.70	68.20	-10.50
5925.000	Peak	67.07	4.36	71.43	88.20	-16.77

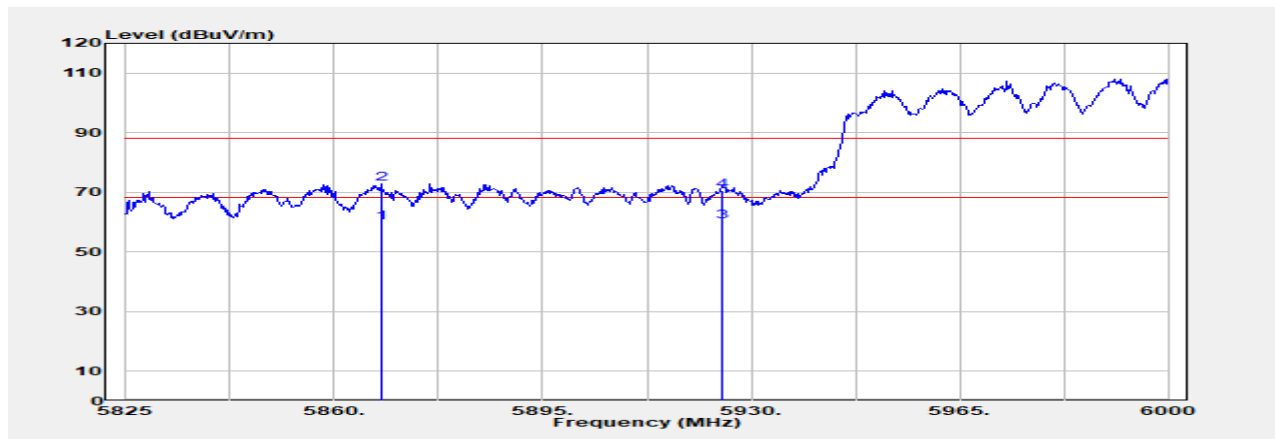
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Report Number :ER/2022/30012
 Operation Mode :802.11ax160
 Test Frequency :6025 MHz
 Test Mode :BE CH LOW RU FULL
 EUT Pol :NB Plane

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



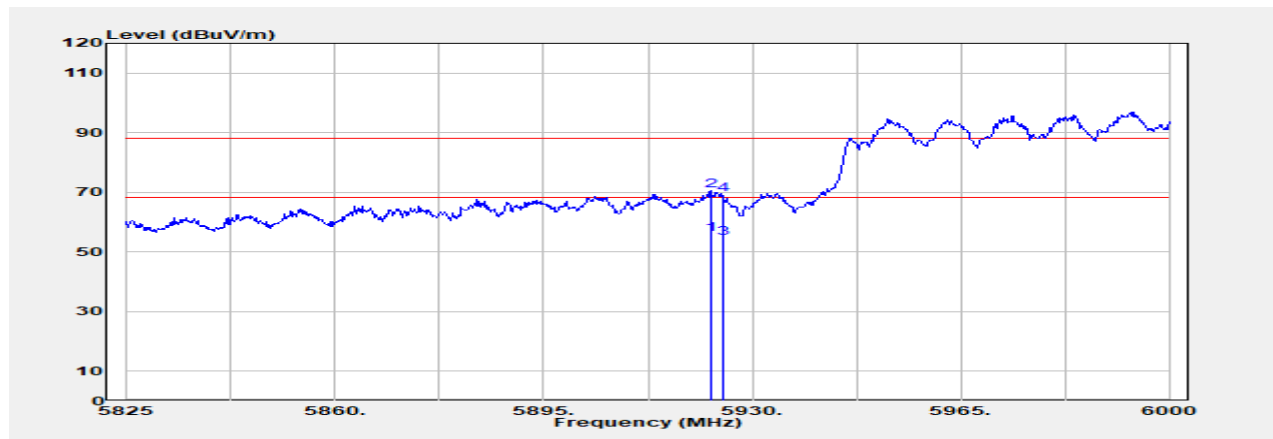
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5867.875	Average	56.00	3.99	60.00	68.20	-8.20
5867.875	Peak	68.78	3.99	72.77	88.20	-15.43
5925.000	Average	55.90	4.36	60.26	68.20	-7.94
5925.000	Peak	66.23	4.36	70.59	88.20	-17.61

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax160	Test Date	:2022-03-17
Test Frequency	:6025 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH LOW RU 1992/68	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5923.000	Average	51.65	4.36	56.01	68.20	-12.19
5923.000	Peak	66.21	4.36	70.57	88.20	-17.63
5925.000	Average	50.40	4.36	54.75	68.20	-13.45
5925.000	Peak	64.86	4.36	69.21	88.20	-18.99

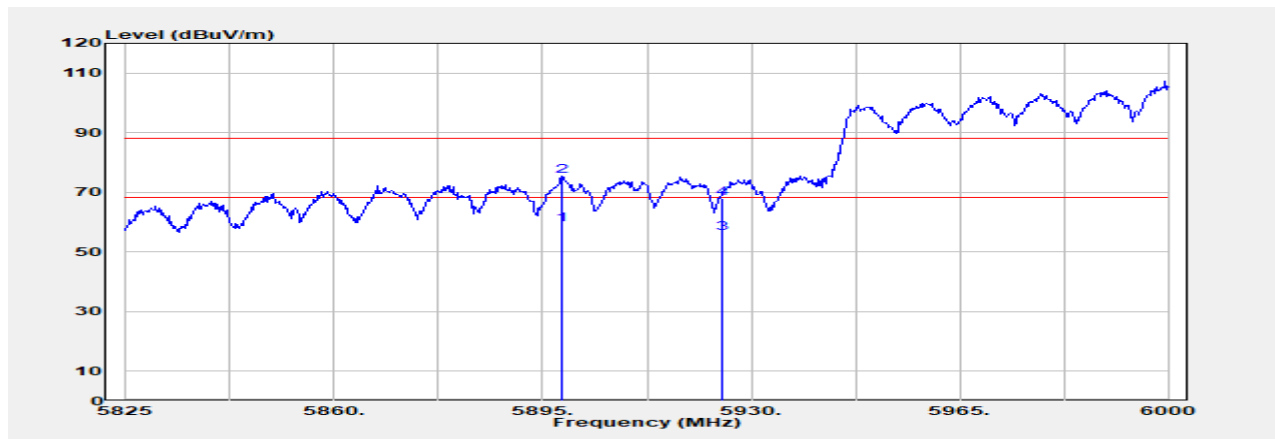
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Report Number :ER/2022/30012
 Operation Mode :802.11ax160
 Test Frequency :6025 MHz
 Test Mode :BE CH LOW RU 1992/68
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5898.325	Average	55.10	4.04	59.14	68.20	-9.06
5898.325	Peak	71.46	4.04	75.50	88.20	-12.70
5925.000	Average	51.77	4.36	56.13	68.20	-12.07
5925.000	Peak	63.72	4.36	68.08	88.20	-20.12

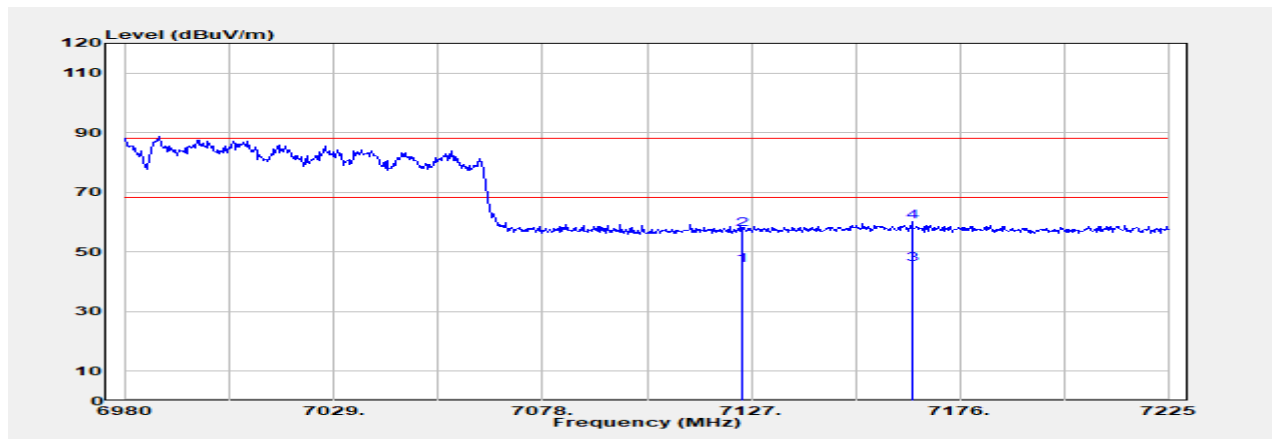
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Report Number :ER/2022/30012
 Operation Mode :802.11ax160
 Test Frequency :6985 MHz
 Test Mode :BE CH HIGH RU FULL
 EUT Pol :NB Plane

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.05	7.39	45.43	68.20	-22.77
7125.000	Peak	50.12	7.39	57.50	88.20	-30.70
7164.730	Average	38.20	7.71	45.92	68.20	-22.28
7164.730	Peak	52.43	7.71	60.14	88.20	-28.06

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Report Number :ER/2022/30012

Test Site :SAC G

Operation Mode :802.11ax160

Test Date :2022-03-17

Test Frequency :6985 MHz

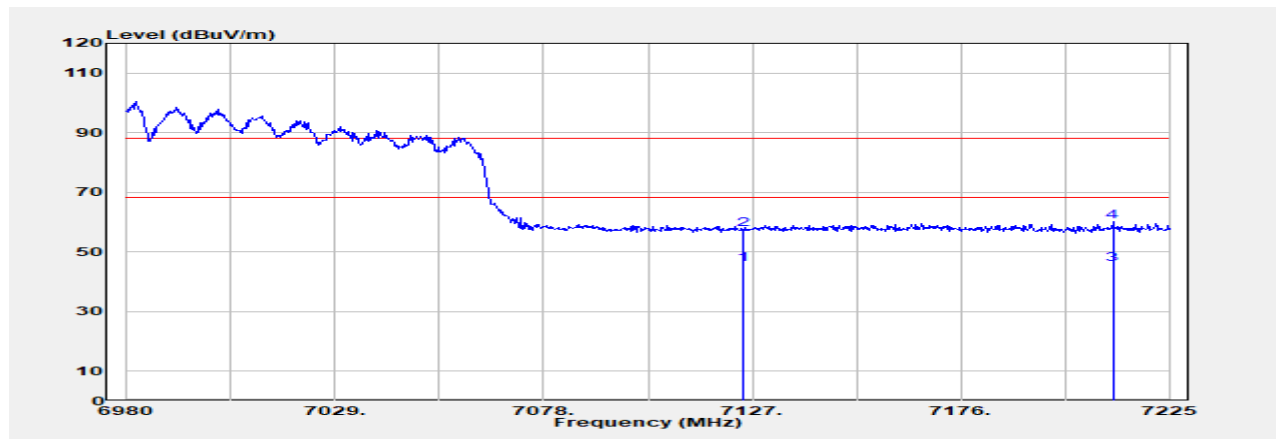
Temp./Humi. :21.7/69

Test Mode :BE CH HIGH RU FULL

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Quentin Liu



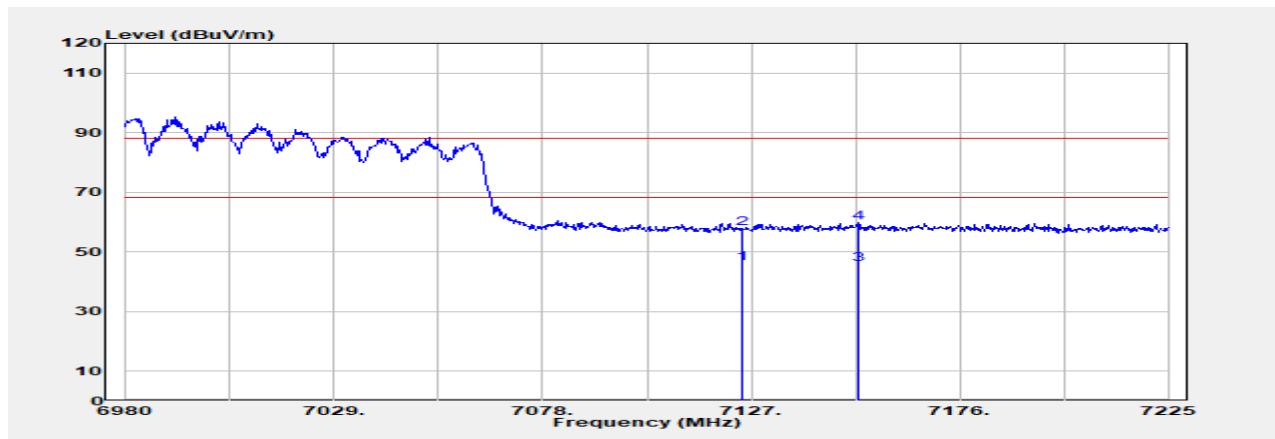
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.42	7.39	45.80	68.20	-22.40
7125.000	Peak	50.07	7.39	57.45	88.20	-30.75
7211.770	Average	38.52	7.26	45.78	68.20	-22.42
7211.770	Peak	52.91	7.26	60.18	88.20	-28.02

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax160	Test Date	:2022-03-17
Test Frequency	:6985 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU 1992/68	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Quentin Liu



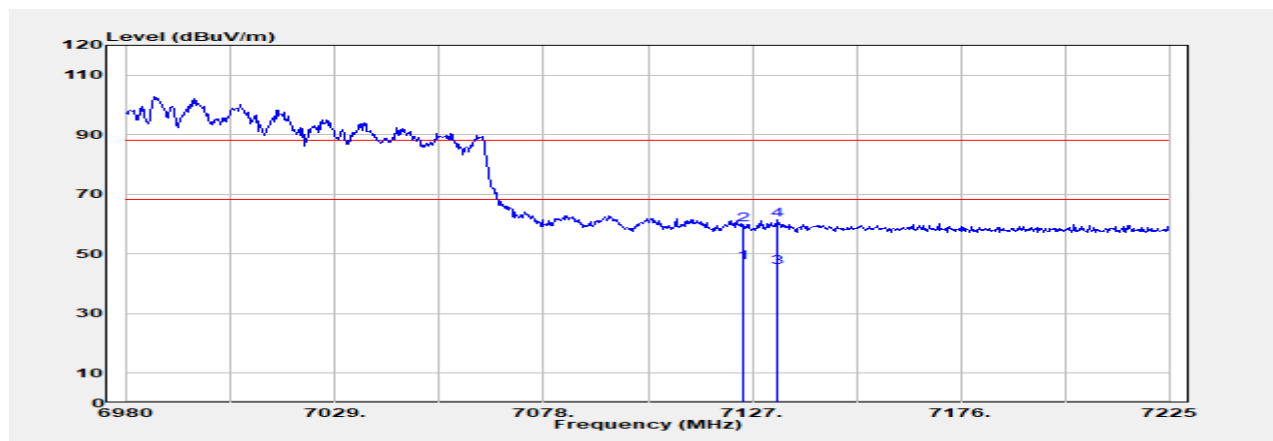
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	38.65	7.39	46.04	68.20	-22.16
7125.000	Peak	50.57	7.39	57.96	88.20	-30.24
7151.990	Average	38.25	7.66	45.91	68.20	-22.29
7151.990	Peak	52.23	7.66	59.89	88.20	-28.31

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Report Number	:ER/2022/30012	Test Site	:SAC G
Operation Mode	:802.11ax160	Test Date	:2022-03-17
Test Frequency	:6985 MHz	Temp./Humi.	:21.7/69
Test Mode	:BE CH HIGH RU 1992/68	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Quentin Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
7125.000	Average	39.71	7.39	47.10	68.20	-21.10
7125.000	Peak	52.53	7.39	59.92	88.20	-28.28
7132.880	Average	38.10	7.50	45.60	68.20	-22.60
7132.880	Peak	53.90	7.50	61.40	88.20	-26.80

~ End of Report ~

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