

## ELECTROMAGNETIC EMISSIONS CLASS II PERMISSIVE CHANGE TEST REPORT



**Applicant:** MediaTek Inc.  
No. 1, Dusing 1<sup>st</sup> Rd., Hsinchu Science Park Hsinchu City  
30078, Taiwan

**Product Name:** 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

**Brand Name:** MediaTek

**Model No.:** MT7922A22M

**Model Difference:** N/A

**Report Number:** ER/2021/C0067

**FCC ID** RAS-MT7922A22M

**Issue Date:** February 11, 2022

**Date of Test:** December 21, 2021 ~ January 20, 2022

**Date of EUT Received:** December 9, 2021

Jet Lu

**Approved By** \_\_\_\_\_  
*Jet Lu*

**We hereby certify that:**

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

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

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
ER/2021/C0067	00	Original.	February 11, 2022	Karen Huang	

**Note:**

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

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## Contents

1 GENERAL INFORMATION .....	4
2 SYSTEM TEST CONFIGURATION .....	8
3 SUMMARY OF TEST RESULT .....	10
4 DESCRIPTION OF TEST MODES .....	11
5 MEASUREMENT UNCERTAINTY .....	18
6 MEASUREMENT EQUIPMENT USED .....	19
7 MAXIMUM OUTPUT POWER .....	22
8 UNDESIRABLE RADIATED EMISSIONS .....	28

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## 1 GENERAL INFORMATION

### 1.1 Product Description of Host

Product Name:	Notebook Computer
Brand Name:	acer
FCC Model No.:	N22C1
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
Power Supply:	15.4Vdc

### 1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	1024QAM for OFDMA in 802.11ax only
Transition Rate:	802.11 a: 6 - 54 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	Main / Aux	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
PIFA	Main	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	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.

### 1.4 Rated Power

**WLAN 6E**

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
a 20MHz	5955~6415	24	10.12 dBm
	6435~6515	5	10.10 dBm
	6535~6875	18	9.87 dBm
	6895~7115	12	9.60 dBm

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## WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
ax_HE 20MHz	5955~6415	24	10.48 dBm
	6435~6515	5	10.78 dBm
	6535~6875	18	9.91 dBm
	6895~7115	12	10.35 dBm
ax_HE 40MHz	5965~6405	12	12.99 dBm
	6445~6525	3	12.43 dBm
	6565~6845	8	12.36 dBm
	6885~7085	6	12.66 dBm
ax_HE 80MHz	5985~6385	6	16.25 dBm
	6465	1	16.06 dBm
	6545~6865	5	16.06 dBm
	6945~7025	2	15.69 dBm
ax_HE 160MHz	6025~6345	3	18.96 dBm
	6505	1	18.31 dBm
	6665~6825	2	18.33 dBm
	6985	1	18.20 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 SAC 3 Conduction 1 Conducted 1 Conducted 2 Conducted 3 Conducted 4 Conducted 5 Conducted 6	TW0027	
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C SAC C SAC D SAC G Conducted A Conducted B Conducted C Conducted D Conducted E Conducted F Conducted G	TW3702 TW0028	

**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

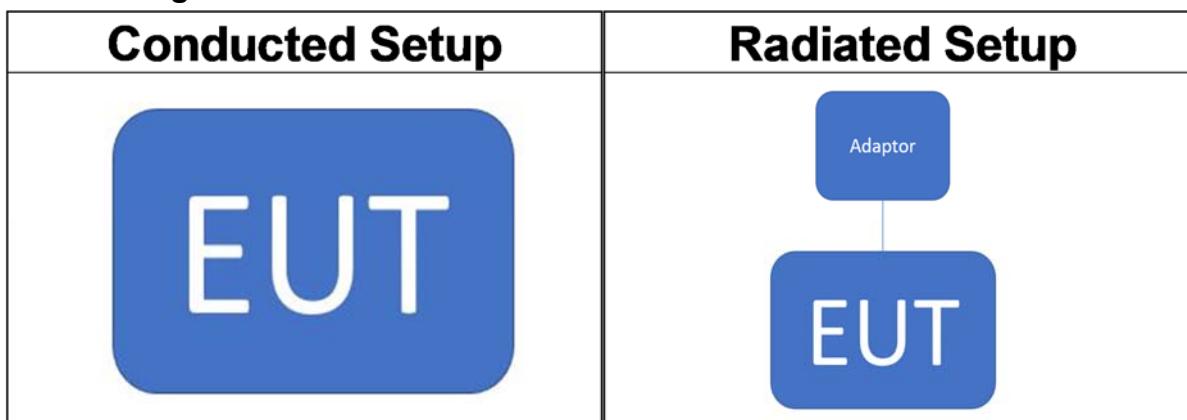
Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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.

## 2.5 Test Configuration



## 2.6 Control Unit(s)

### 2.6.1 Conducted Setup

N/A

### 2.6.2 Radiated Setup

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R
Adaptor	LITEON	PA-1331-99	KP330030041390 03E4PE01	N/A	N/A

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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									
20MHz				40MHz		80MHz		160MHz	
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
5	5975	53	6215	11	6005	23	6065	47	6185
9	5995	57	6235	19	6045	39	6145	79	6345
13	6015	61	6255	27	6085	55	6225		
17	6035	65	6275	35	6125	71	6305	105	6475
21	6055	69	6295	43	6165	87	6385	109	6495
25	6075	73	6315	51	6205			113	6515
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-6 6425~6525 MHz									
20MHz				40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
97	6435	99	6445	101	6455	103	6465	111	6505
107	6485	115	6525						

UNII-7 6525~6875 MHz									
20MHz				40MHz		80MHz		160MHz	
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
121	6555	157	6735	131	6605	135	6625	175	6825
125	6575	161	6755	139	6645	151	6705		
129	6595	165	6775	147	6685	167	6785		
133	6615	169	6795	155	6725	183	6865		
137	6635	173	6815	163	6765				
141	6655	177	6835	171	6805				
145	6675	181	6855	179	6845				
149	6695	185	6875						

UNII-8 6875~7125 MHz									
20MHz				40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
189	6895	187	6885	193	6915	195	6925	203	6965
197	6935	201	6955	205	6975	209	6995	213	7015
211	7005	219	7045	221	7055	225	7075	229	7095
227	7085	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 given UE is pre-scanned among below modes.

Modulation		Transmission Chain							Single Transmission Spatial		Multiple Transmission Spatial		
v	802.11 a	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX
	802.11 n		Ch0		Ch1		Ch2		Ch3		SISO		MIMO
	802.11 ac		Ch0		Ch1		Ch2		Ch3		SISO		MIMO
v	802.11 ax	v	Ch0	v	Ch1		Ch2		Ch3		SISO	v	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	TESTED	MODULATION	DATA RATE	ANTENN A
		CHANNEL	CHANNEL		(Mbps)	PORT
802.11a	5180~5240	36 to 48	40	OFDM	6	2
	5260~5320	52 to 64	60			
	5500~5700	100 to 140	116			
	5745~5825	149 to 165	157			
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENN A
		CHANNEL	CHANNEL		(Mbps)	PORT
802.11a	5180~5240	36 to 48	36,40,48	OFDM	6	2
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11ac_VHT20	5180~5240	36 to 48	36,48	OFDM	MCS0	2
	5260~5320	52 to 64	52,64			
	5500~5720	100 to 144	100,140,144			
	5745~5825	149 to 165	149,165			
802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS0	2
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	2
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
802.11ac_VHT160	5250	50	50	OFDM	MCS0	2
	5570	114	114			

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RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE	TESTED	MODULATION	RU CONFIGURATION	DATA RATE	ANTENN A
		CHANNEL	CHANNEL			(Mbps)	PORT
802.11ax_HE20	5180~5240	36 to 48	36,48	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	2
	5260~5320	52 to 64	52,64				
	5500~5720	100 to 144	100,140,144				
	5745~5825	149 to 165	149,165				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	FULL RU	MCS0	2
	5270~5310	54 to 62	54,62				
	5510~5670	102 to 142	102,134,142				
	5755~5795	151 to 159	151,159				
802.11ax_HE80	5210	42	42	OFDMA	FULL RU	MCS0	2
	5290	58	58				
	5530~5610	106 to 138	106,122,138				
	5775	155	155				
802.11ax_HE160	5290	58	58	OFDMA	FULL RU	MCS0	2
	5530~5610	106 to 122	106,122				

**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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CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955~6415	1 to 93	1,45,93	OFDM	6	2TX
	6435~6515	97 to 113	97,105,113			
	6535~6875	117 to 185	117,149,181,185			
	6895~7115	189 to 233	189,209,233			

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/5	MCS0	Mimo
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7115	189 to 233	189,209,233				
802.11ax_HE40	5965~6405	3 to 91	3,43,91	OFDMA	-	MCS0	Mimo
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	187,195,211,227				
802.11ax_HE80	5985~6385	7 to 87	7,39,87	OFDMA	-	MCS0	Mimo
	6465	103	103				
	6545~6865	119 to 183	103				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,47,79	OFDMA	-	MCS0	Mimo
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	
AC Power Line Conducted Emission	+/-	2.34 dB
Output Power measurement	+/-	1 dB
Emission Bandwidth	+/-	1.53 Hz
Undesignable radiated emission measurement	+/-	1.68 dB
Peak Power Density	+/-	1.62 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 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	05/26/2021	05/25/2022
Power Meter	Anritsu	ML2496A	1242004	11/02/2021	11/01/2022
Power Sensor	Anritsu	MA2411B	1207365	11/02/2021	11/01/2022
Power Sensor	Anritsu	MA2411B	1207368	11/02/2021	11/01/2022
Attenuator	Mini-Circuit	BW-S10W2+	2	12/14/2021	12/13/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022

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## 6.2 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/27/2021	09/26/2022
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/20/2021	08/19/2022
Loop Antenna	ETS.LINDGREN	6502	148045	09/29/2021	09/28/2022
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
EMI Test Receiver	R&S	ESCI 7	100759	08/26/2021	08/25/2022
Pre-Amplifier	HP	8449B	3008A00578	12/16/2021	12/15/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	HP	8447D	2944A07676	12/16/2021	12/15/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	12/14/2021	12/13/2022
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	12/14/2021	12/13/2022
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	12/14/2021	12/13/2022
Bandreject Filter 5925-6425	Woken	WFIL-N5925-6425F	WRGBAFWC2F9	12/14/2021	12/13/2022
Bandreject Filter 6425-6525	Woken	WFIL-N6425-6525F	WRGBAFWC2J1	12/14/2021	12/13/2022
Bandreject Filter 6525-6875	Woken	WFIL-N6525-6875F	WRGBAFWC2J4	12/14/2021	12/13/2022
Bandreject Filter 6875-7125	Woken	WFIL-N6875-7125F	WRGBAFWC2J9	12/14/2021	12/13/2022
High Pass Filter	WI	WHKX7.0/18G-8SS	45	12/14/2021	12/13/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2021	12/15/2022
Site Cal	SGS	SAC 3	N/A	01/01/2022	12/31/2022

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Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	1206	02/22/2021	02/21/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	08/06/2021	08/05/2022
Horn Antenna	Schwarzbeck	DRH18-E	210105A18E	04/09/2021	04/08/2022
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber G	N/A	03/30/2021	03/29/2022
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2021	03/14/2022
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2021	03/14/2022
Highpass Filter	WI	WHKX10-2624-3200-1800-80SS	1	05/10/2021	05/09/2022
Highpass Filter	WI	WHKX10-6090-7000-17000-80SS	1	05/10/2021	05/09/2022
Highpass Filter	WI	WHKX10-1066-1300-1500-80SS	18	05/10/2021	05/09/2022
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216、210217、210218	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219、210220、210221	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000-15000	210224、210306	03/15/2021	03/14/2022

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

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## 7 MAXIMUM OUTPUT POWER

### 7.1 Standard Applicable

#### 7.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

#### 7.1.2 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.

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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
V	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	EIRP < 24dBm
	Dual Client	6CD	Compliance both indoor client and standard client limit	

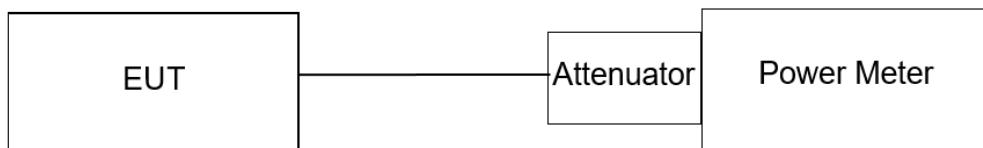
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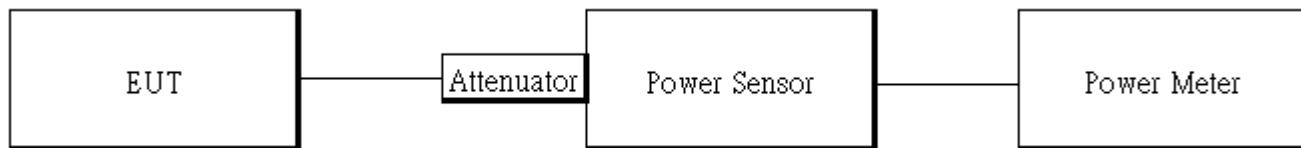
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## 7.2 Test Setup

### 7.2.1 Duty Cycle



### 7.2.2 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.

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

$G_k$  is the gain in dBi of the kth antenna.

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

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## 7.3 Measurement Procedure

### 7.3.1 Duty Cycle

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

### 7.3.2 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.

Cable Loss Offset (dB)
12.1

## 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	0.81	0.41	3.76	6.36	10.125	24	PASS
45	6175	-0.39	0.660	3.32	6.36	9.677	24	PASS
93	6415	0.61	-0.030	3.45	6.36	9.812	24	PASS
97	6435	1.91	0.410	4.37	5.73	10.105	24	PASS
105	6475	0.62	1.310	4.13	5.73	9.859	24	PASS
113	6515	1.62	0.510	4.25	5.73	9.981	24	PASS
117	6535	0.81	0.210	3.67	5.91	9.581	24	PASS
149	6695	0.92	-0.240	3.53	5.91	9.439	24	PASS
181	6855	0.59	-0.120	3.40	5.91	9.310	24	PASS
185	6875	1.35	0.190	3.96	5.91	9.869	24	PASS
213	7015	1.23	0.660	4.10	5.5	9.605	24	PASS
233	7115	0.02	1.280	3.85	5.5	9.346	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	1.02	-0.03	4.12	6.36	10.477	24	PASS
		26/0	-7.49	-8.12	-4.20	6.36	2.157	24	PASS
		106/53	-2.11	-3.22	0.96	6.36	7.321	24	PASS
45	6175	full	1.01	-0.02	4.12	6.36	10.476	24	PASS
93	6415	full	0.85	-0.22	3.94	6.36	10.298	24	PASS
		26/8	-7.53	-8.42	-4.36	6.36	1.998	24	PASS
		106/54	-1.82	-2.77	1.32	6.36	7.681	24	PASS
97	6435	full	1.81	0.47	4.78	5.73	10.512	24	PASS
		26/0	-7.61	-8.91	-4.62	5.73	1.109	24	PASS
		106/53	-1.84	-3.17	1.14	5.73	6.866	24	PASS
105	6475	full	1.94	0.89	5.04	5.73	10.767	24	PASS
113	6515	full	2.01	0.83	5.05	5.73	10.780	24	PASS
117	6535	full	0.82	-0.04	4.00	5.91	9.912	24	PASS
		26/0	-7.42	-8.97	-4.54	5.91	1.374	24	PASS
		106/53	-1.74	-3.03	1.25	5.91	7.163	24	PASS
153	6715	full	0.93	-0.45	3.88	5.91	9.795	24	PASS
181	6855	full	0.81	-0.15	3.95	5.91	9.857	24	PASS
		26/8	-7.58	-8.08	-4.23	5.91	1.677	24	PASS
		106/54	-2.26	-3.01	0.97	5.91	6.881	24	PASS
185	6875	full	1.67	0.8	4.85	5.5	10.347	24	PASS
213	7015	full	1.67	0.8	4.85	5.5	10.347	24	PASS
233	7115	full	-1.76	-2.36	1.54	5.5	7.041	24	PASS
		26/8	-10.53	-11.33	-7.32	5.5	-1.821	24	PASS
		52/40	-8.04	-8.41	-4.63	5.5	0.869	24	PASS

## 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	3.24	2.310	6.39	6.36	12.750	24	PASS
43	6165	full	3.52	2.510	6.63	6.36	12.995	24	PASS
91	6405	full	3.11	2.300	6.31	6.36	12.674	24	PASS
99	6445	full	3.45	2.520	6.60	5.73	12.330	24	PASS
107	6485	full	3.60	2.560	6.70	5.73	12.431	24	PASS
115	6525	full	3.66	2.550	6.73	5.73	12.461	24	PASS
123	6565	full	3.11	2.590	6.45	5.91	12.358	24	PASS
155	6725	full	3.25	2.340	6.41	5.91	12.319	24	PASS
179	6845	full	3.01	2.560	6.38	5.91	12.291	24	PASS
187	6885	full	3.94	2.900	7.04	5.5	12.541	24	PASS
211	7005	full	3.57	3.210	6.98	5.5	12.484	24	PASS
227	7085	full	4.21	2.810	7.16	5.5	12.656	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	6.22	6.01	9.73	6.36	16.087	24	PASS
39	6145	full	6.25	5.23	9.38	6.36	15.740	24	PASS
87	6385	full	6.71	5.81	9.89	6.36	16.254	24	PASS
103	6465	full	6.99	6.14	10.20	5.73	15.926	24	PASS
<b>119</b>	<b>6545</b>	<b>full</b>	<b>6.81</b>	<b>6.25</b>	<b>10.15</b>	<b>5.91</b>	<b>16.059</b>	<b>24</b>	<b>PASS</b>
135	6625	full	6.78	5.88	9.96	5.91	15.874	24	PASS
151	6705	full	5.94	5.09	9.15	5.91	15.056	24	PASS
167	6785	full	5.87	4.98	9.06	5.91	14.968	24	PASS
<b>183</b>	<b>6865</b>	<b>full</b>	<b>6.42</b>	<b>5.67</b>	<b>9.67</b>	<b>5.91</b>	<b>15.581</b>	<b>24</b>	<b>PASS</b>
199	6945	full	7.23	5.81	10.19	5.5	15.688	24	PASS
215	7025	full	6.25	6.69	10.09	5.5	15.586	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	8.53	8.77	12.24	6.36	18.597	24	PASS
47	6185	full	8.42	8.62	12.11	6.36	18.466	24	PASS
79	6345	full	8.95	9.08	12.60	6.36	18.961	24	PASS
<b>111</b>	<b>6505</b>	<b>full</b>	<b>9.05</b>	<b>8.94</b>	<b>12.58</b>	<b>5.73</b>	<b>18.311</b>	<b>24</b>	<b>PASS</b>
143	6665	full	8.53	9.12	12.42	5.91	18.330	24	PASS
<b>175</b>	<b>6825</b>	<b>full</b>	<b>8.35</b>	<b>8.63</b>	<b>12.08</b>	<b>5.91</b>	<b>17.988</b>	<b>24</b>	<b>PASS</b>
207	6985	full	9.01	9.21	12.70	5.5	18.196	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 (dB $\mu$ V/m) AV: 68.2 (dB $\mu$ V/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:**

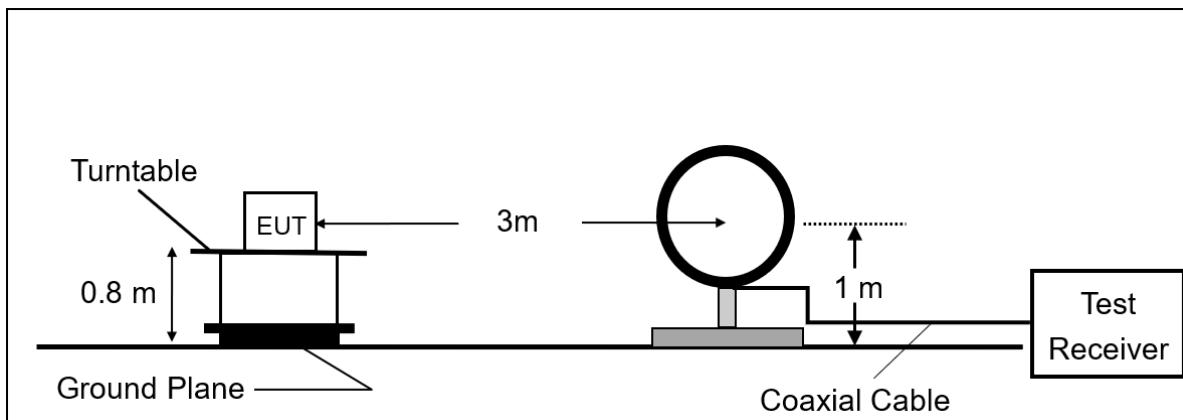
1. The lower limit shall apply at the transition frequencies.

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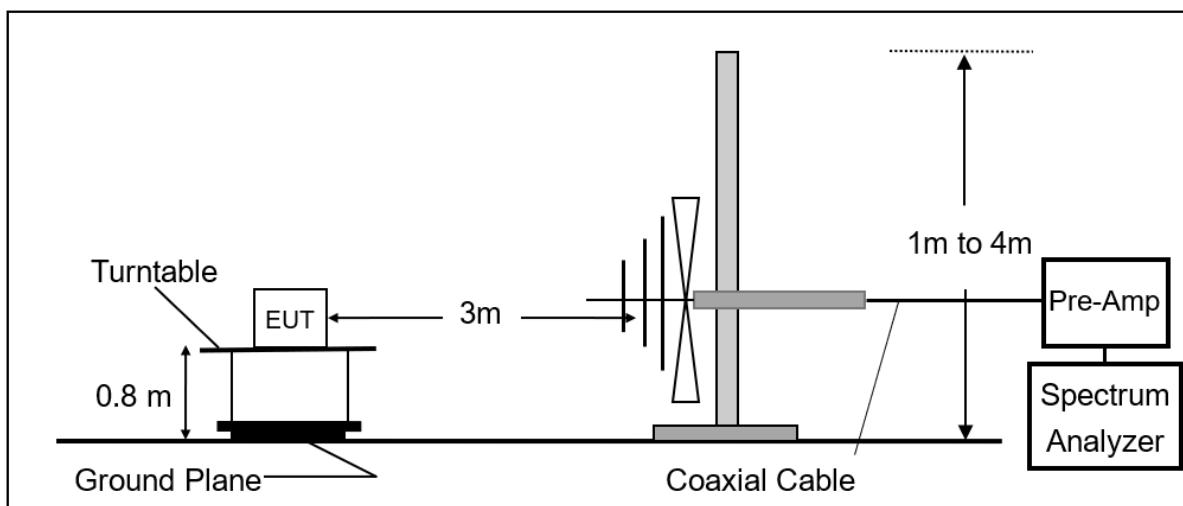
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## 8.2 Test Setup

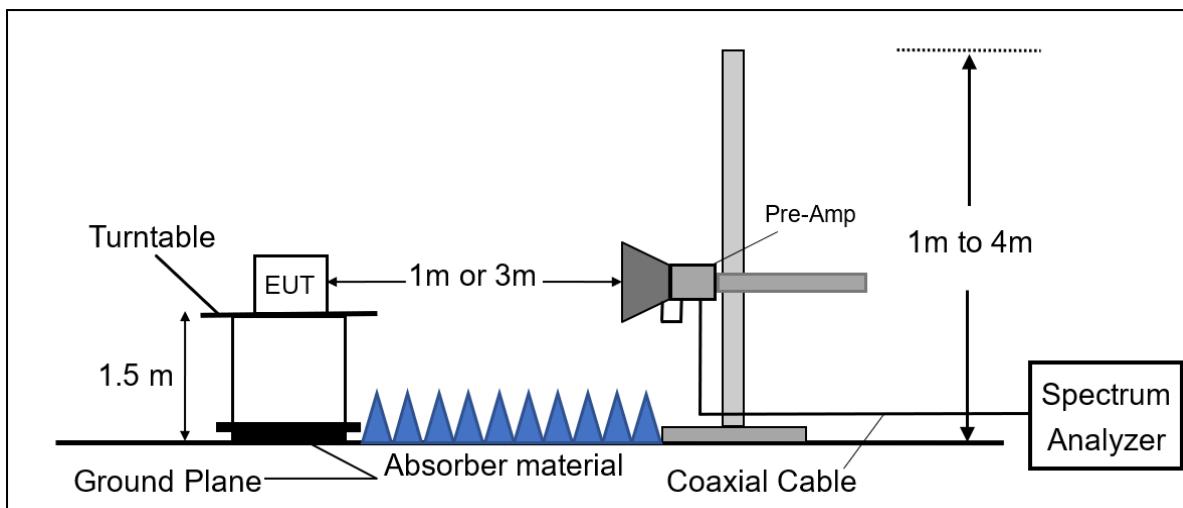
### (A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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### 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.

### 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

$CL$  = Cable Attenuation Factor (Cable Loss)

$RA$  = Reading Amplitude

$AG$  = Amplifier Gain

$AF$  = Antenna Factor

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

Actual  $FS(dB\mu V/m)$  = SPA. Reading level( $dB\mu V$ ) + Factor( $dB$ )

Factor( $dB$ ) = Antenna Factor( $dB\mu V/m$ ) + Cable Loss( $dB$ ) - Pre\_Amplifier Gain( $dB$ )

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

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

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SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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f (886-2) 2298-0488

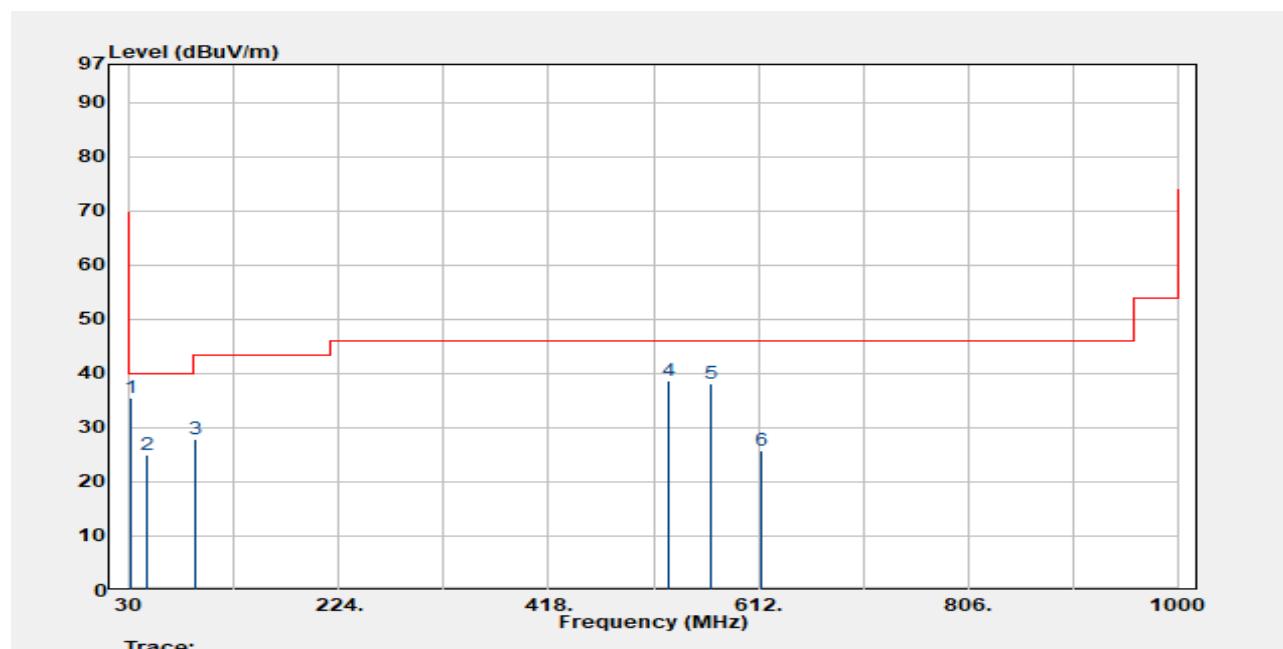
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Member of SGS Group

## 8.6 Radiated Spurious Emission Measurement Result

### 8.6.1 Spurious Emission

Report Number	:ER/2021/C0067	Test Site	:SAC 3
Operation Mode	:802.11a	Test Date	:2022-01-10
Test Frequency	:6175 MHz	Temp./Humi.	:20.5/62
Test Mode	:Tx CH Mid	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
31.940	QP	44.34	-8.94	35.40	40.00	-4.60
45.520	QP	33.21	-8.11	25.10	40.00	-14.90
90.140	Peak	41.75	-13.97	27.78	43.50	-15.72
529.550	QP	39.94	-1.19	38.75	46.00	-7.25
568.350	QP	39.85	-1.63	38.22	46.00	-7.78
614.910	QP	24.62	1.04	25.66	46.00	-20.34

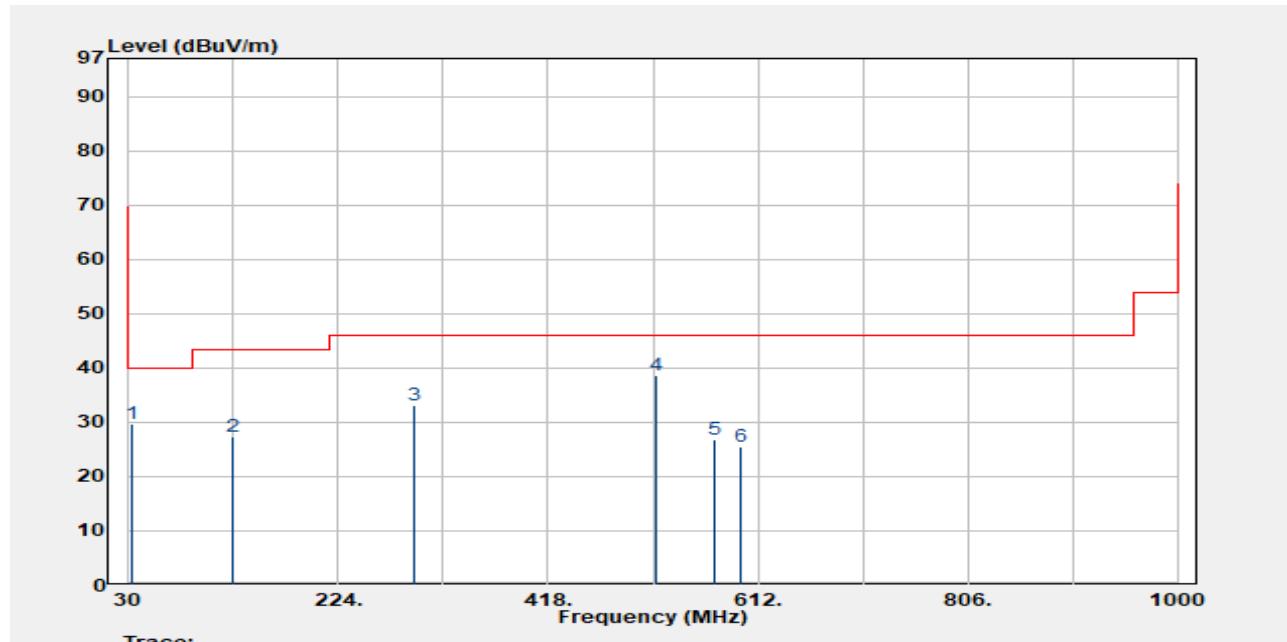
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Report Number :ER/2021/C0067  
 Operation Mode :802.11a  
 Test Frequency :6175 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2022-01-10  
 Temp./Humi. :20.5/62  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
33.880	Peak	38.74	-9.05	29.69	40.00	-10.31
127.000	Peak	36.15	-8.87	27.28	43.50	-16.22
294.810	Peak	39.13	-5.92	33.21	46.00	-12.79
517.910	Peak	40.27	-1.74	38.53	46.00	-7.47
571.260	QP	28.41	-1.58	26.83	46.00	-19.17
596.480	QP	25.90	-0.39	25.51	46.00	-20.49

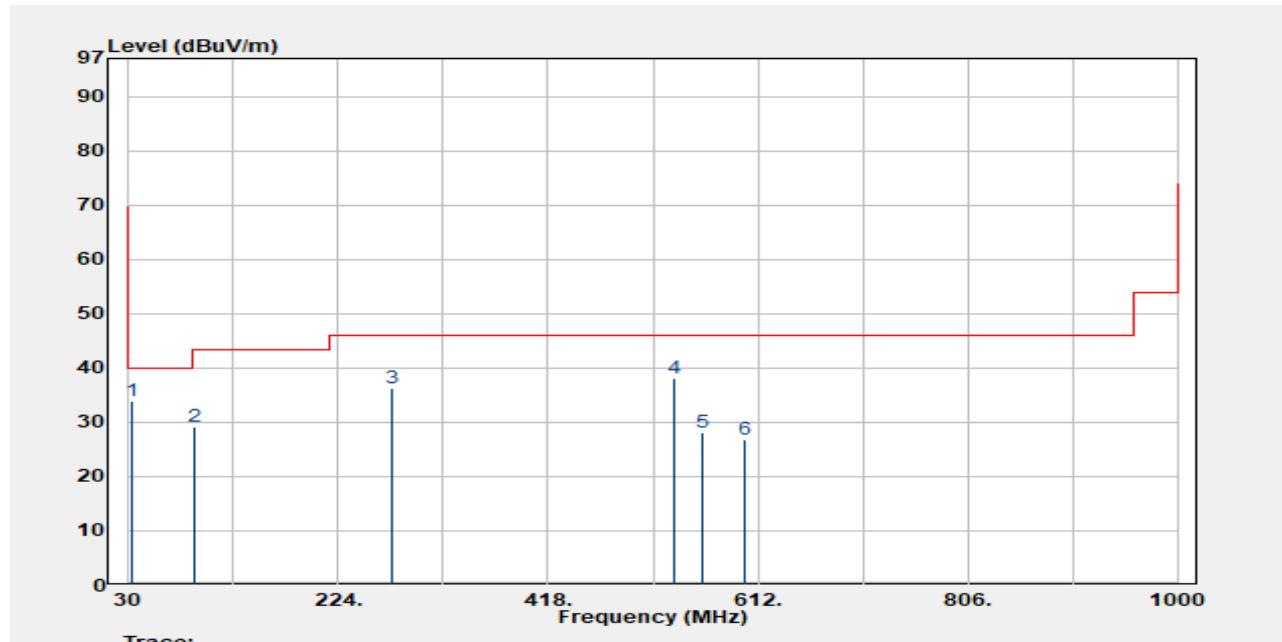
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Report Number :ER/2021/C0067  
 Operation Mode :802.11a  
 Test Frequency :6475 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2022-01-10  
 Temp./Humi. :20.5/62  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
33.880	QP	42.85	-9.05	33.80	40.00	-6.20
90.140	Peak	43.13	-13.97	29.16	43.50	-14.34
274.440	Peak	42.81	-6.59	36.21	46.00	-9.79
534.400	QP	39.21	-1.15	38.06	46.00	-7.94
560.590	QP	29.85	-1.80	28.05	46.00	-17.95
600.360	QP	26.89	0.01	26.90	46.00	-19.10

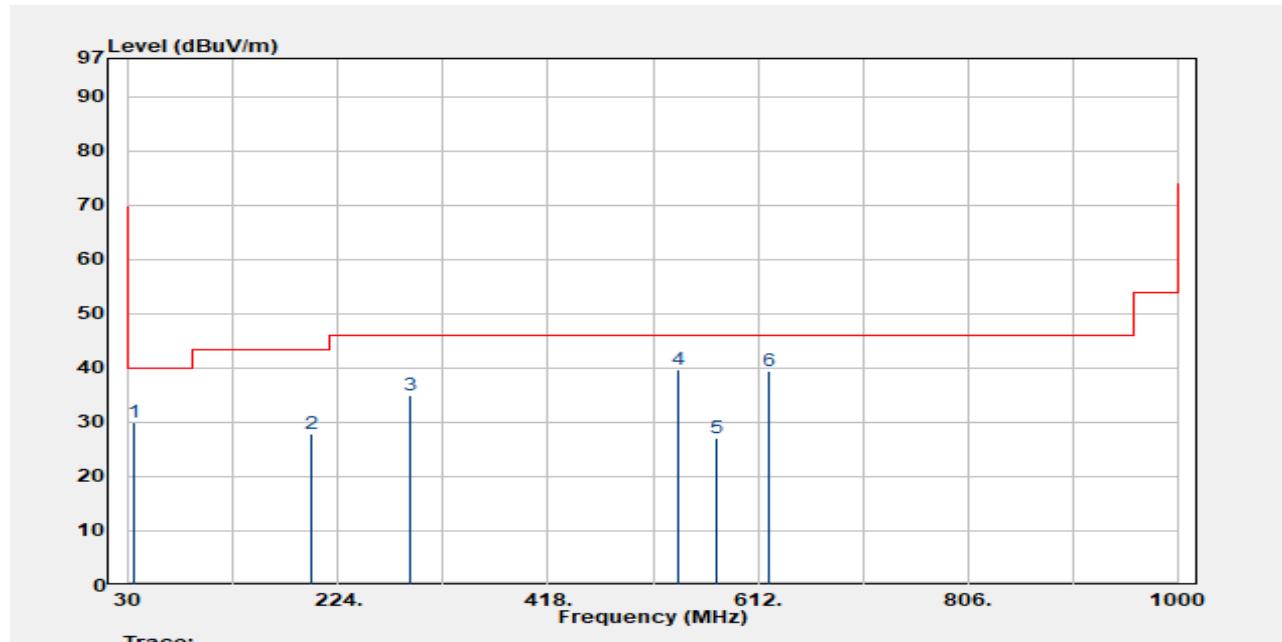
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Report Number :ER/2021/C0067  
 Operation Mode :802.11a  
 Test Frequency :6475 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2022-01-10  
 Temp./Humi. :20.5/62  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



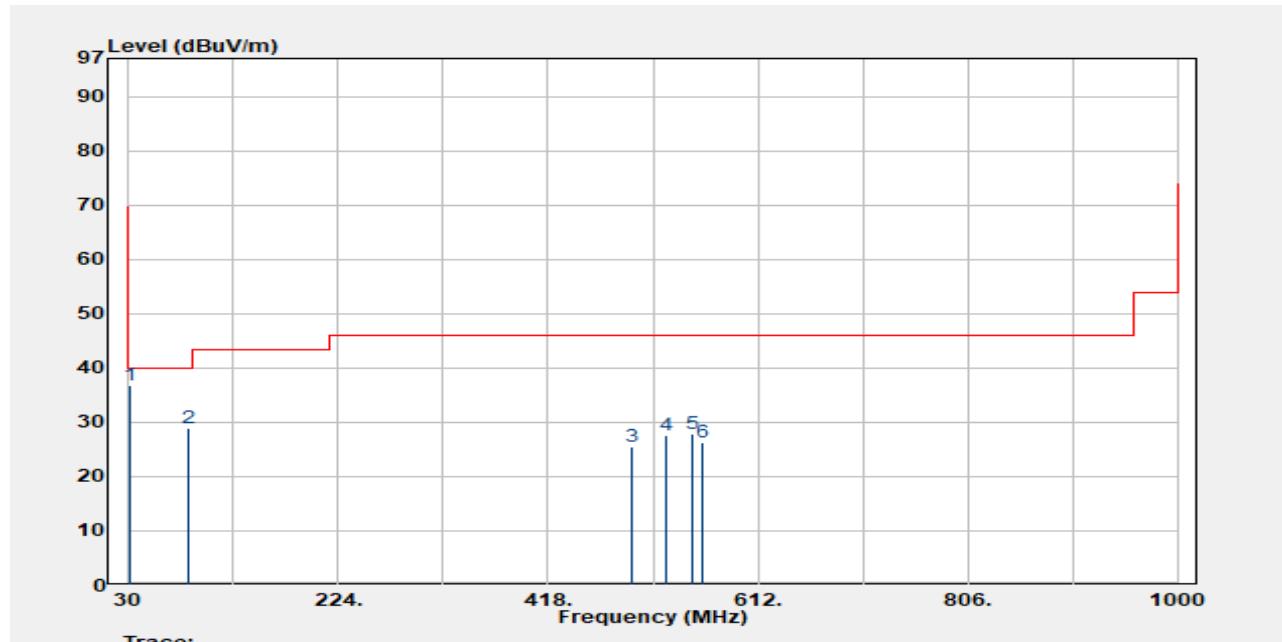
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
34.850	Peak	38.86	-8.93	29.93	40.00	-10.07
199.750	Peak	37.38	-9.43	27.95	43.50	-15.55
290.930	Peak	40.99	-6.02	34.98	46.00	-11.02
538.280	Peak	40.81	-1.21	39.60	46.00	-6.40
574.170	QP	28.55	-1.60	26.95	46.00	-19.05
622.670	Peak	38.39	1.00	39.39	46.00	-6.61

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Report Number :ER/2021/C0067  
 Operation Mode :802.11a  
 Test Frequency :6715 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2022-01-10  
 Temp./Humi. :20.5/62  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
	31.940	QP	45.75	-8.94	36.81	40.00	-3.19
	85.290	Peak	42.28	-13.27	29.01	40.00	-10.99
	494.630	QP	27.96	-2.33	25.63	46.00	-20.37
	526.640	QP	28.85	-1.36	27.49	46.00	-18.51
	551.860	QP	29.31	-1.48	27.83	46.00	-18.17
	560.590	QP	28.12	-1.80	26.32	46.00	-19.68

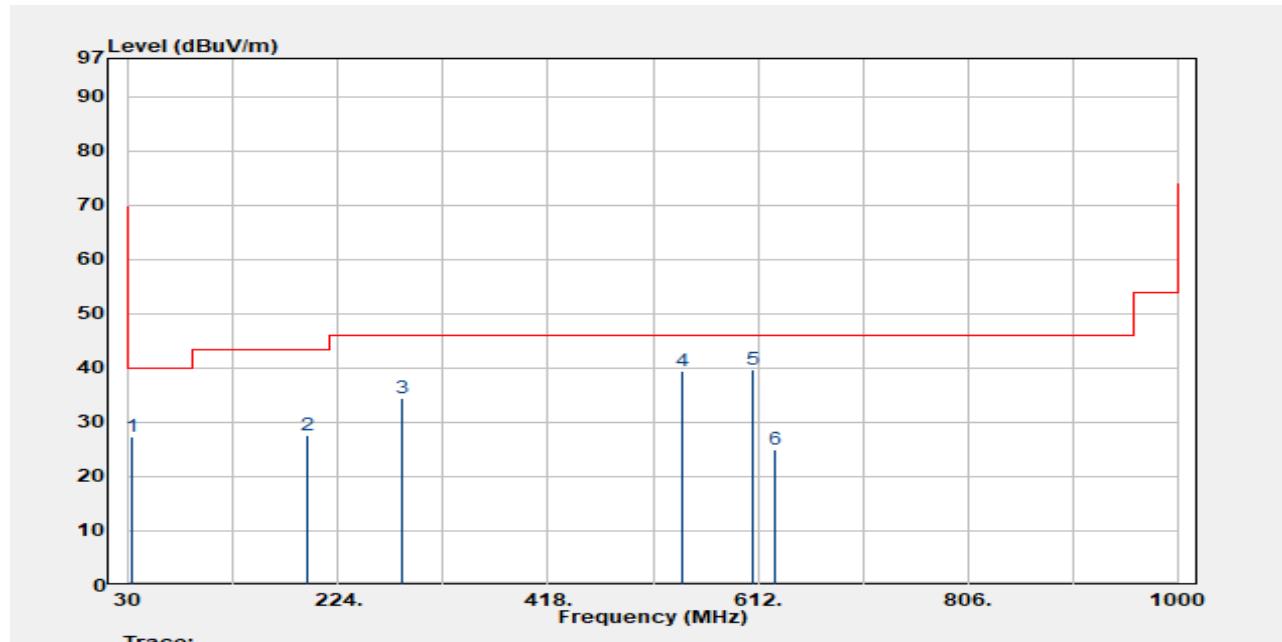
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Report Number :ER/2021/C0067  
 Operation Mode :802.11a  
 Test Frequency :6715 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2022-01-10  
 Temp./Humi. :20.5/62  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
33.880	Peak	36.35	-9.05	27.30	40.00	-12.70
195.870	Peak	37.10	-9.56	27.54	43.50	-15.96
283.170	Peak	40.59	-6.18	34.41	46.00	-11.59
542.160	Peak	40.67	-1.30	39.37	46.00	-6.63
607.150	Peak	39.09	0.69	39.78	46.00	-6.22
627.520	QP	24.44	0.65	25.09	46.00	-20.91

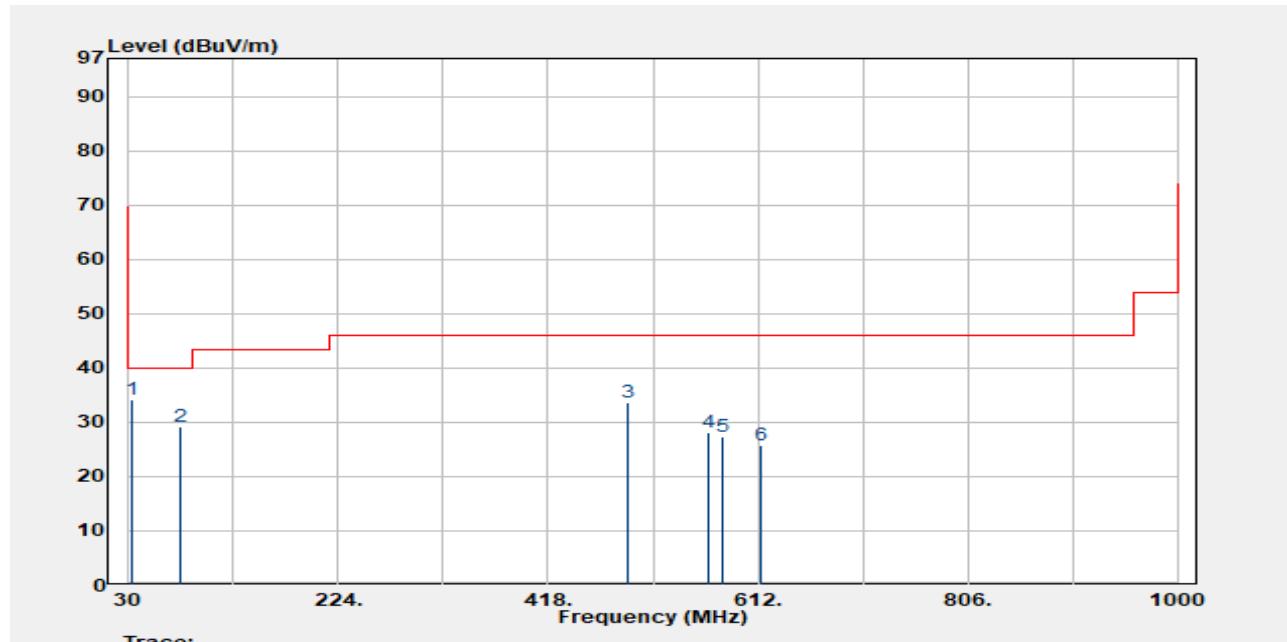
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Report Number :ER/2021/C0067  
 Operation Mode :802.11a  
 Test Frequency :7015 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2022-01-10  
 Temp./Humi. :20.5/62  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



Trace:	Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
	32.910	QP	42.89	-8.65	34.24	40.00	-5.76
	78.500	Peak	40.88	-11.68	29.20	40.00	-10.80
	491.300	QP	36.04	-2.39	33.65	46.00	-12.35
	566.410	QP	29.81	-1.69	28.12	46.00	-17.88
	579.020	QP	28.83	-1.55	27.28	46.00	-18.72
	614.910	QP	24.78	1.04	25.82	46.00	-20.18

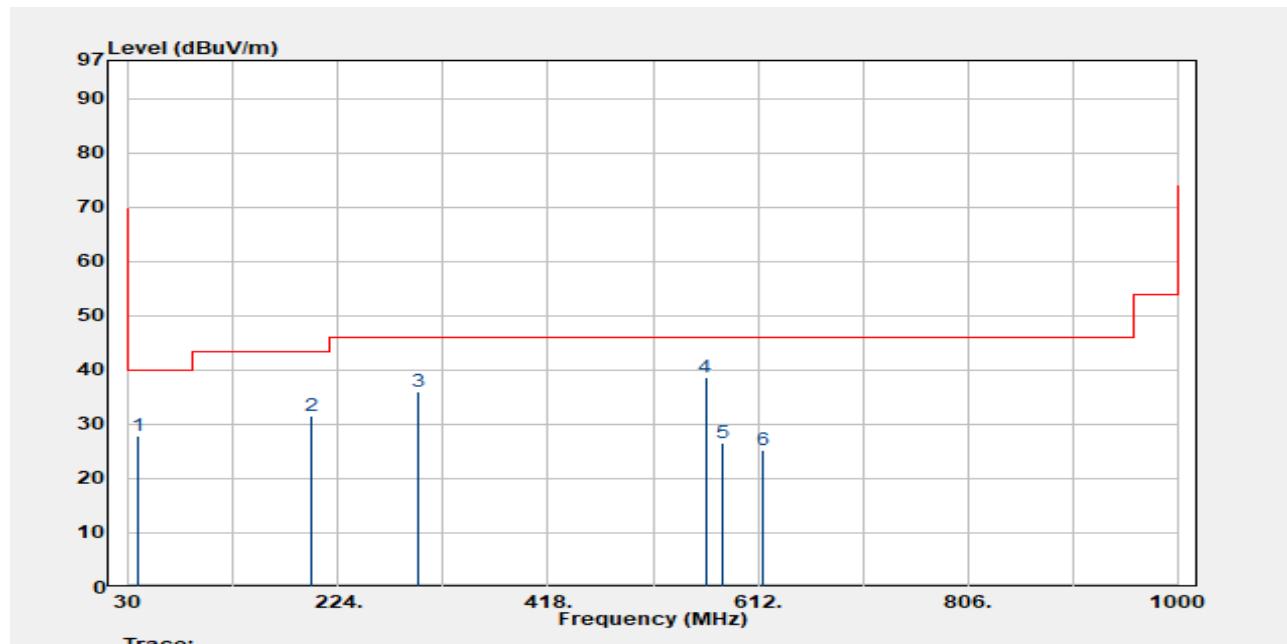
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Report Number :ER/2021/C0067  
 Operation Mode :802.11a  
 Test Frequency :7015 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2022-01-10  
 Temp./Humi. :20.5/62  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
37.760	Peak	36.55	-8.65	27.91	40.00	-12.09
199.750	Peak	40.86	-9.43	31.42	43.50	-12.08
298.690	Peak	41.84	-5.90	35.94	46.00	-10.06
563.500	Peak	40.31	-1.76	38.55	46.00	-7.45
579.990	QP	28.15	-1.53	26.62	46.00	-19.38
616.850	QP	24.22	1.07	25.29	46.00	-20.71

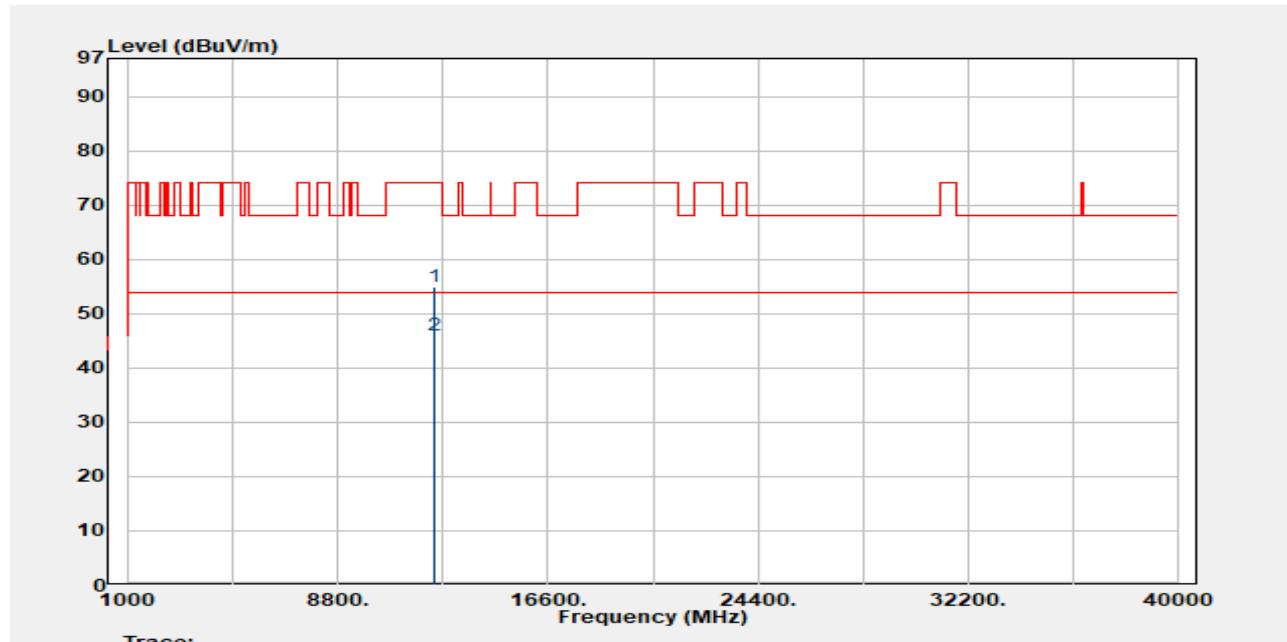
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Report Number :ER-2021-C0065  
 Operation Mode :802.11a  
 Test Frequency :6175 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2022-01-10  
 Temp./Humi. :20.5/62  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
12350.000	Peak	32.09	22.95	55.04	74.00	-18.96
12350.000	Average	23.05	22.95	46.00	54.00	-8.00

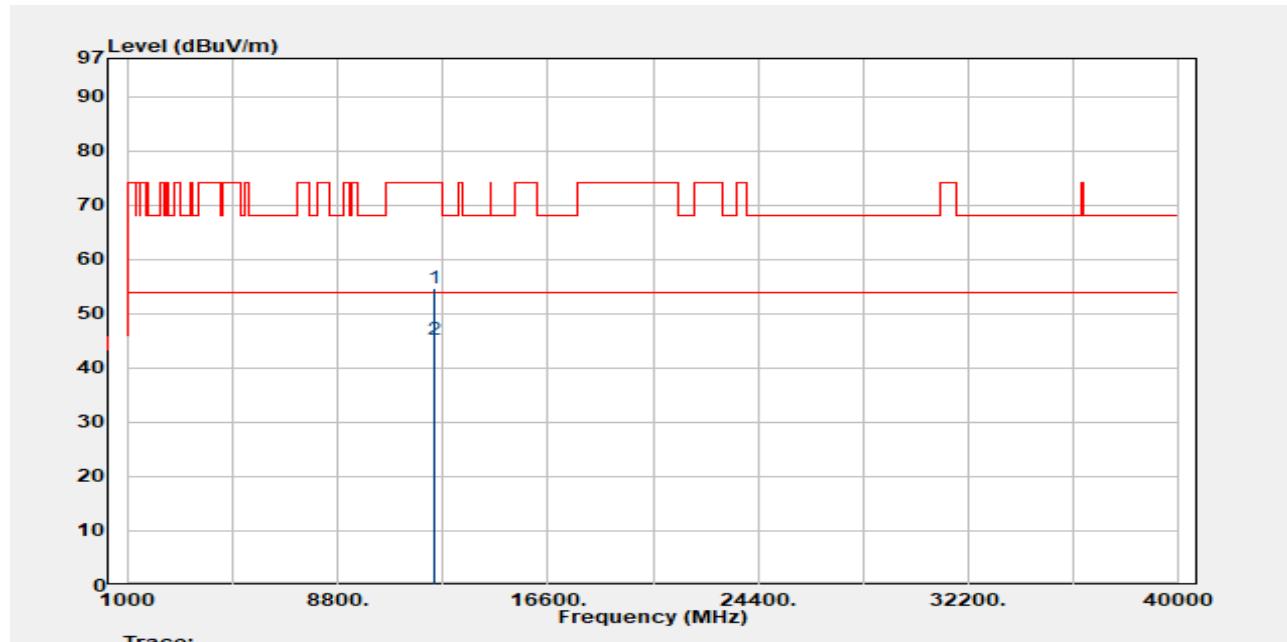
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Report Number :ER/2021/C0067  
 Operation Mode :802.11a  
 Test Frequency :6175 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2022-01-10  
 Temp./Humi. :20.5/62  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
12350.000	Peak	32.40	22.23	54.63	74.00	-19.37
12350.000	Average	22.94	22.23	45.17	54.00	-8.83

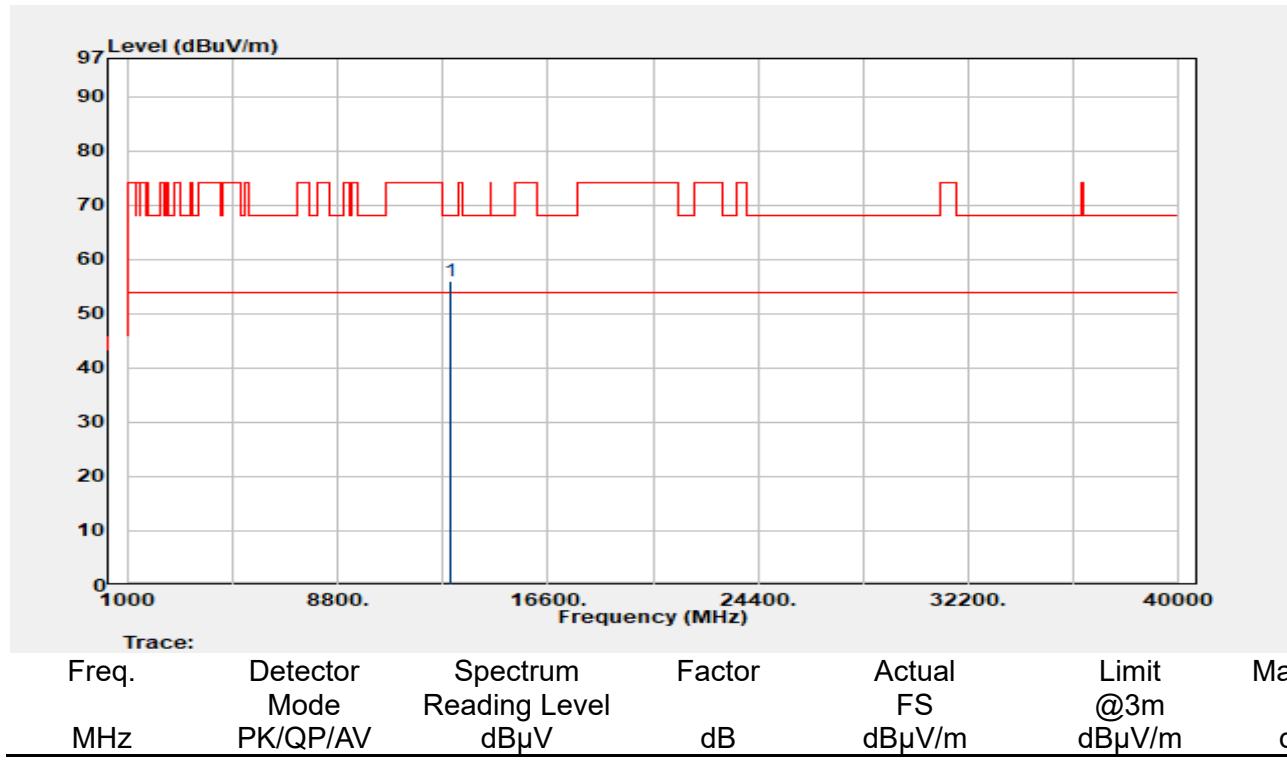
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Report Number :ER/2021/C0067  
Operation Mode :802.11a  
Test Frequency :6475 MHz  
Test Mode :Tx CH Mid  
EUT Pol :NB Plane

Test Site :SAC 3  
Test Date :2022-01-10  
Temp./Humi. :20.5/62  
Antenna Pol. :Vertical  
Engineer :Jack Liu



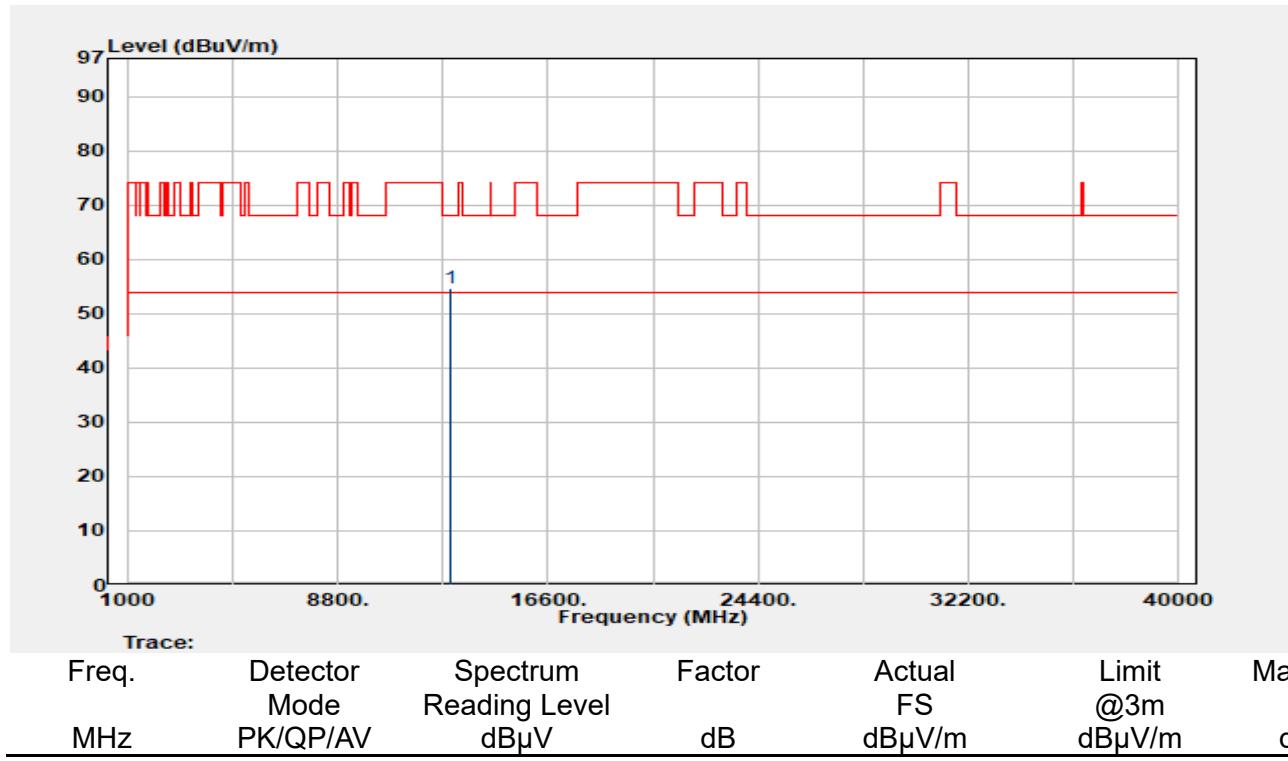
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Report Number :ER/2021/C0067  
Operation Mode :802.11a  
Test Frequency :6475 MHz  
Test Mode :Tx CH Mid  
EUT Pol :NB Plane

Test Site :SAC 3  
Test Date :2022-01-10  
Temp./Humi. :20.5/62  
Antenna Pol. :Horizontal  
Engineer :Jack Liu

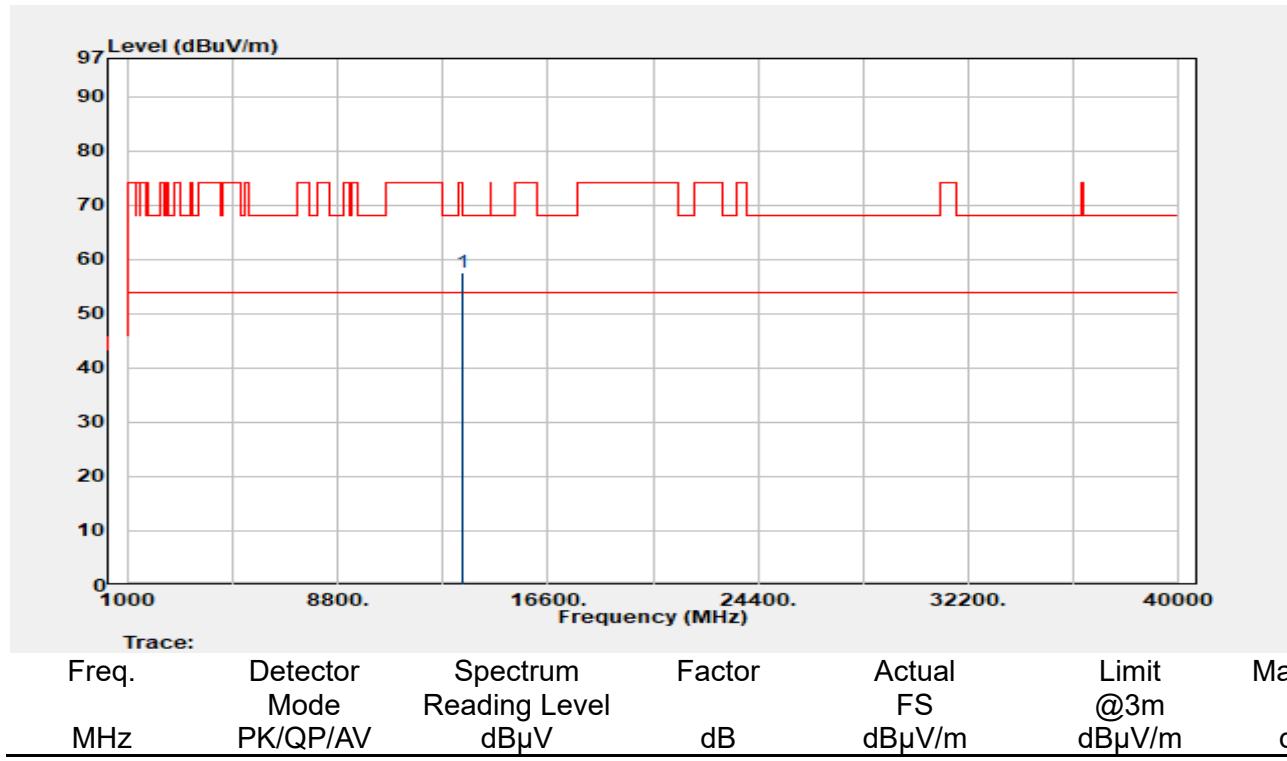


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Report Number :ER/2021/C0067  
Operation Mode :802.11a  
Test Frequency :6715 MHz  
Test Mode :Tx CH Mid  
EUT Pol :NB Plane

Test Site :SAC 3  
Test Date :2022-01-10  
Temp./Humi. :20.5/62  
Antenna Pol. :Vertical  
Engineer :Jack Liu

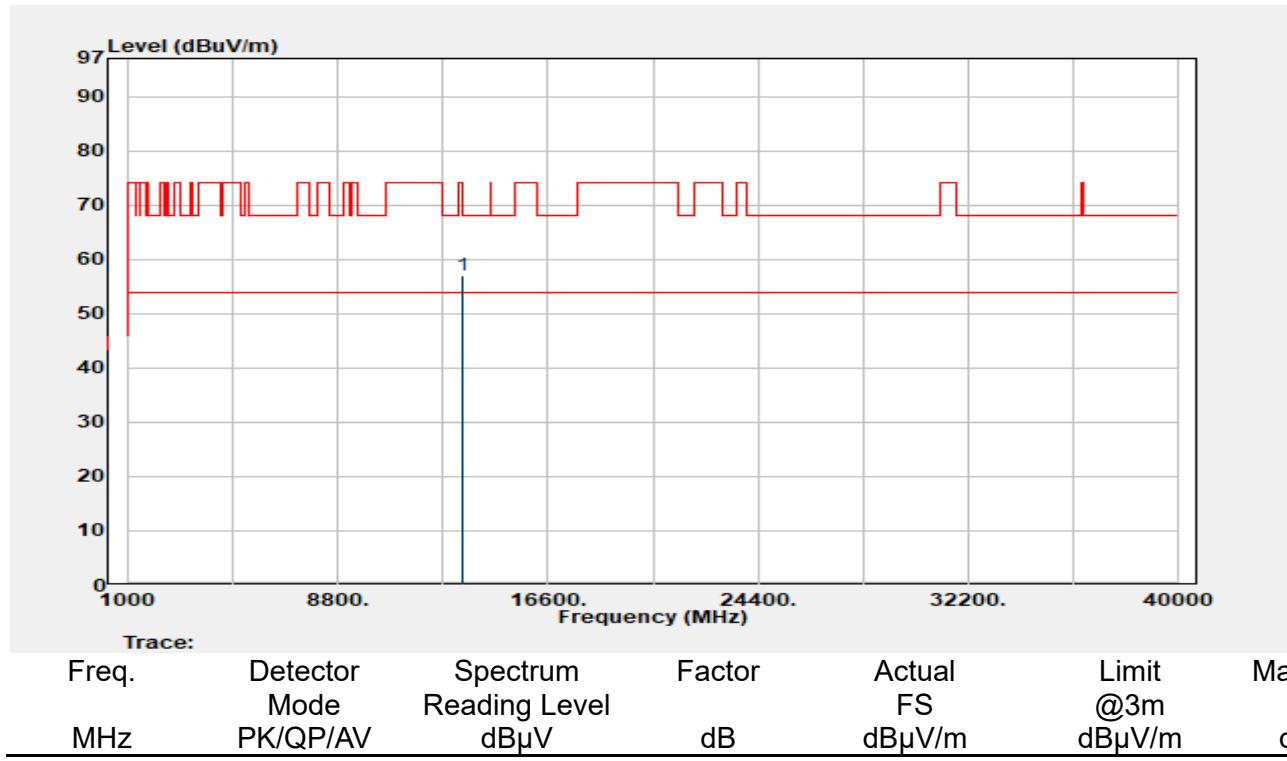


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Report Number :ER/2021/C0067  
Operation Mode :802.11a  
Test Frequency :6715 MHz  
Test Mode :Tx CH Mid  
EUT Pol :NB Plane

Test Site :SAC 3  
Test Date :2022-01-10  
Temp./Humi. :20.5/62  
Antenna Pol. :Horizontal  
Engineer :Jack Liu



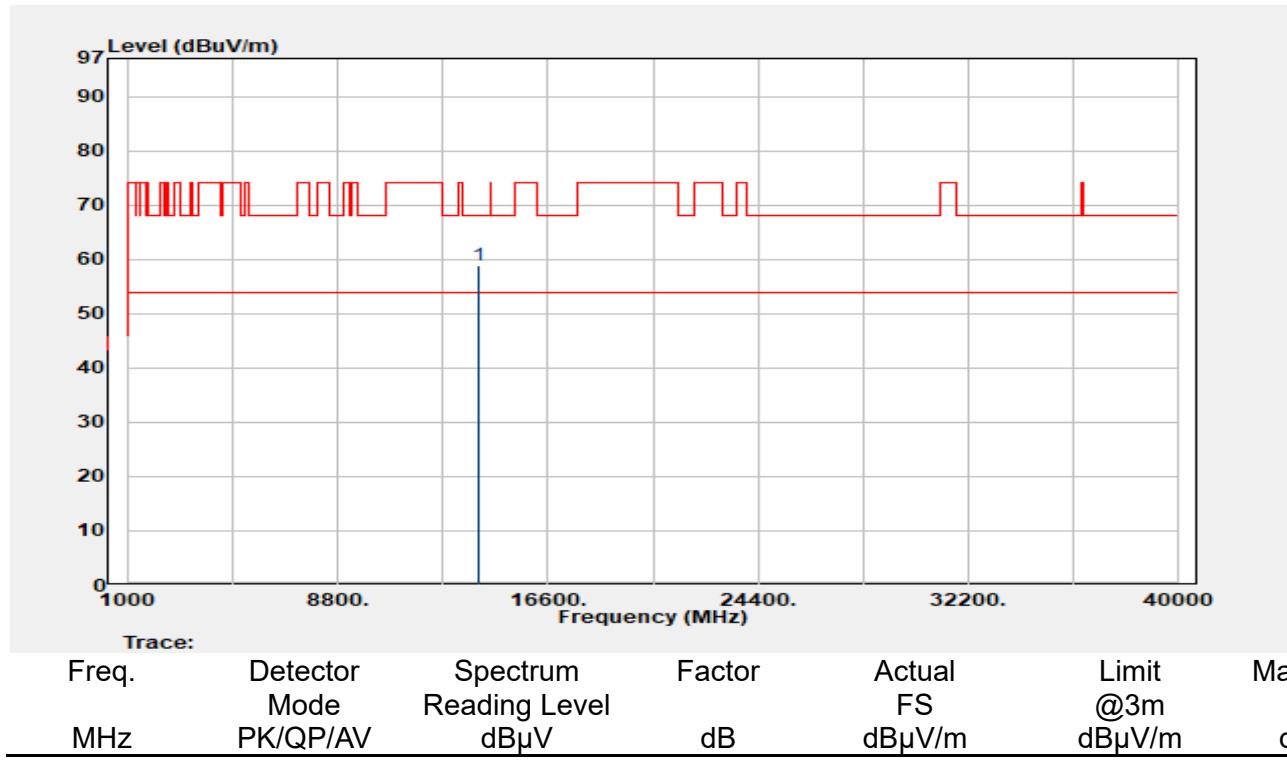
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Report Number :ER/2021/C0067  
Operation Mode :802.11a  
Test Frequency :7015 MHz  
Test Mode :Tx CH Mid  
EUT Pol :NB Plane

Test Site :SAC 3  
Test Date :2022-01-10  
Temp./Humi. :20.5/62  
Antenna Pol. :Vertical  
Engineer :Jack Liu

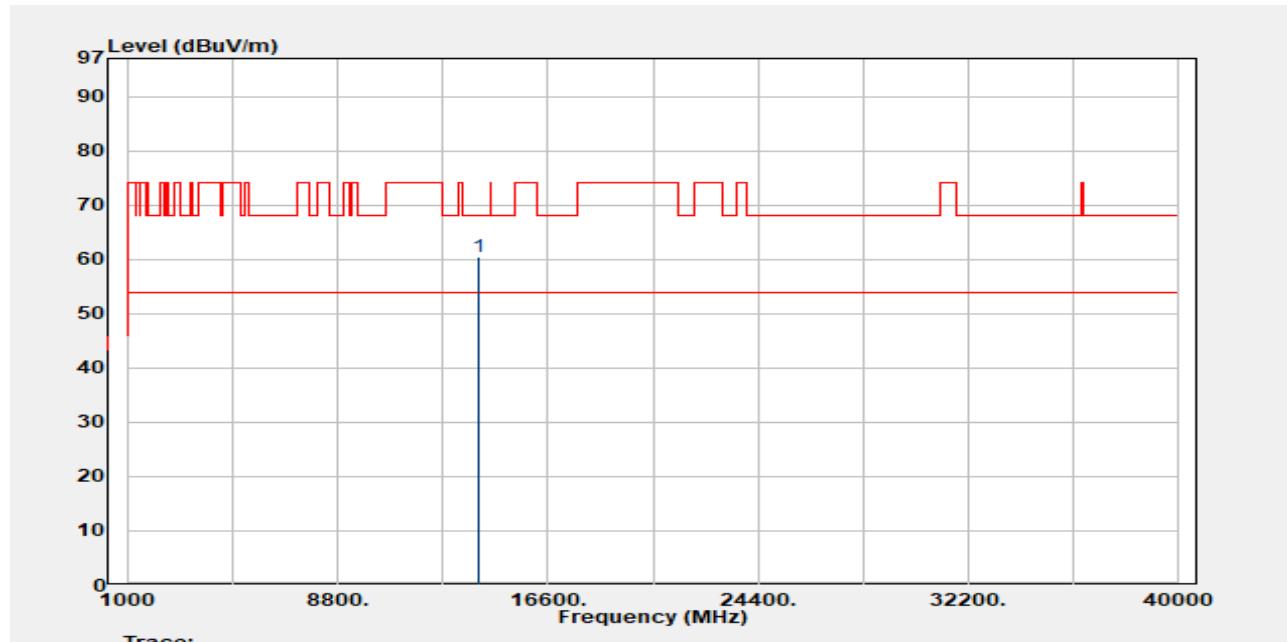


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Report Number :ER/2021/C0067  
Operation Mode :802.11a  
Test Frequency :7015 MHz  
Test Mode :Tx CH Mid  
EUT Pol :NB Plane

Test Site :SAC 3  
Test Date :2022-01-10  
Temp./Humi. :20.5/62  
Antenna Pol. :Horizontal  
Engineer :Jack Liu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
14030.000	Peak	34.23	26.31	60.54	68.20	-7.66

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## 8.6.2 Band edge falling to restricted band

Report Number :ER/2021/C0067

Test Site :SAC G

Operation Mode :802.11a

Test Date :2022-01-20

Test Frequency :5955 MHz

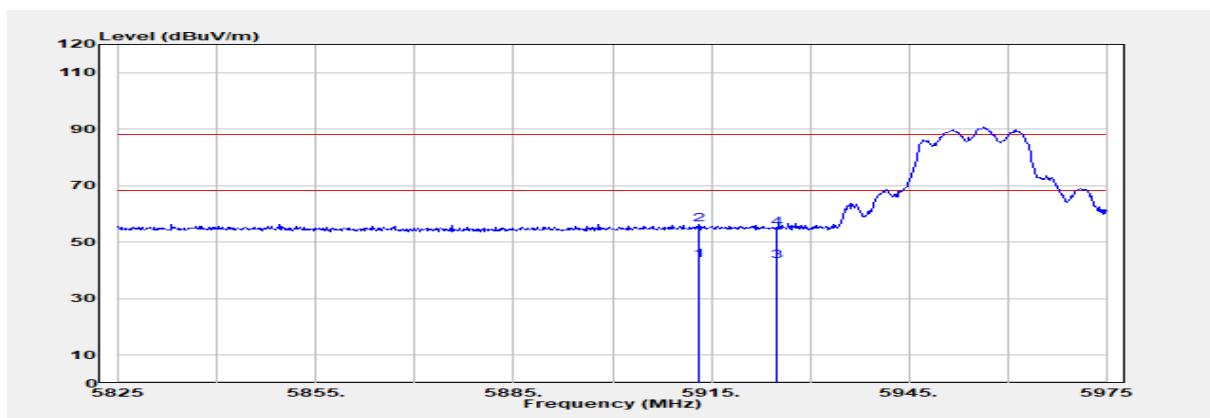
Temp./Humi. :22.9/61

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5913.050	Average	39.06	4.39	43.45	68.20	-24.75
5913.050	Peak	52.00	4.39	56.39	88.20	-31.81
5925.000	Average	38.98	4.36	43.33	68.20	-24.87
5925.000	Peak	50.57	4.36	54.92	88.20	-33.28

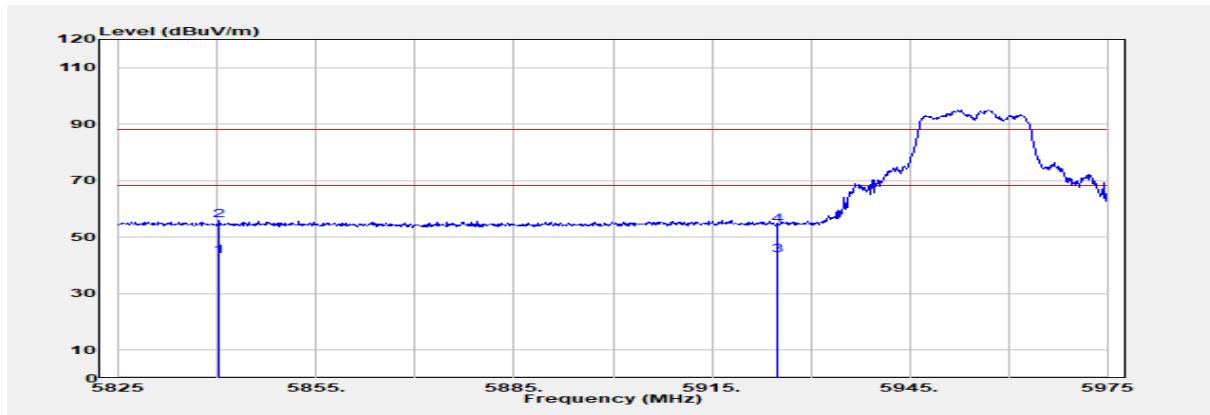
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Report Number :ER/2021/C0067  
 Operation Mode :802.11a  
 Test Frequency :5955 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2022-01-20  
 Temp./Humi. :22.9/61  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5840.300	Average	38.90	4.31	43.21	68.20	-24.99
5840.300	Peak	51.74	4.31	56.05	88.20	-32.15
5925.000	Average	39.14	4.36	43.49	68.20	-24.71
5925.000	Peak	50.05	4.36	54.40	88.20	-33.80

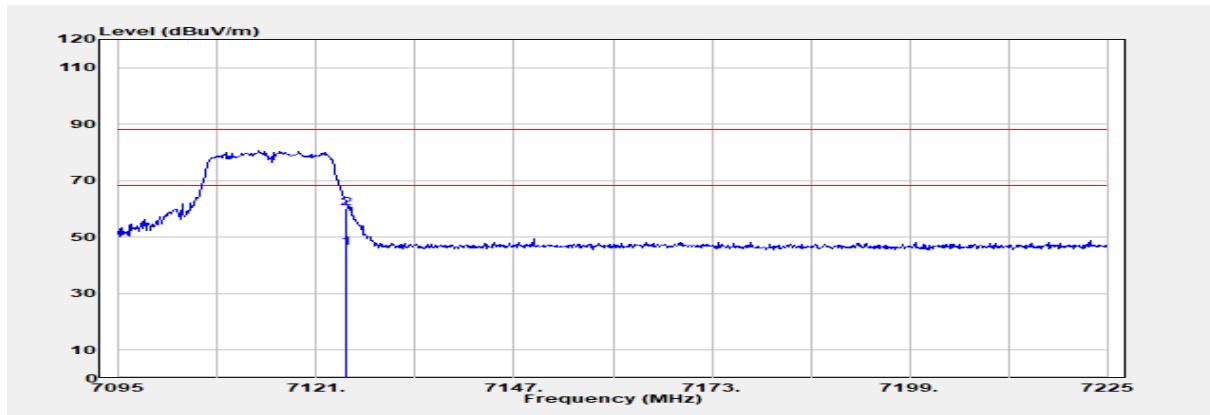
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Report Number :ER/2021/C0067  
Operation Mode :802.11a  
Test Frequency :7115 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Vertical  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	38.70	7.39	46.09	68.20	-22.11
7125.000	Peak	52.87	7.39	60.26	88.20	-27.94

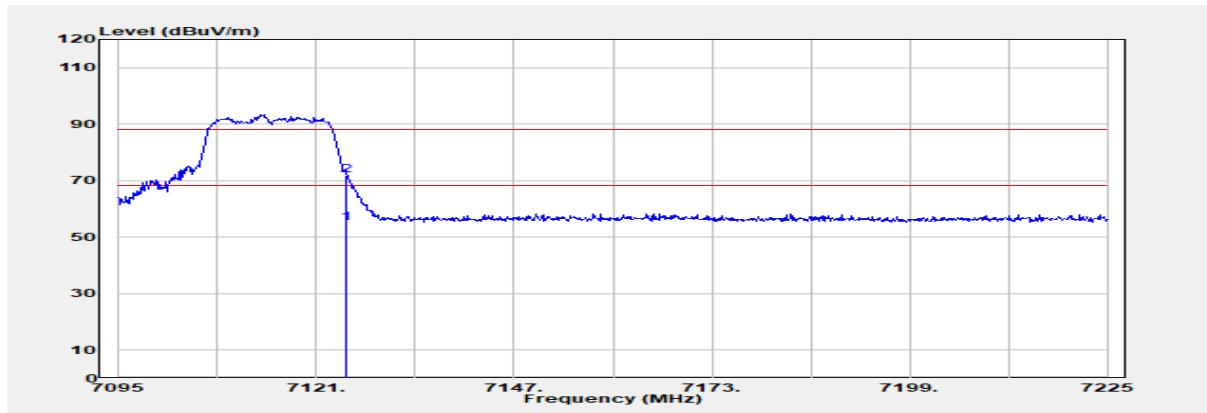
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Report Number :ER/2021/C0067  
Operation Mode :802.11a  
Test Frequency :7115 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Horizontal  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	47.63	7.39	55.02	68.20	-13.18
7125.000	Peak	64.47	7.39	71.85	88.20	-16.35

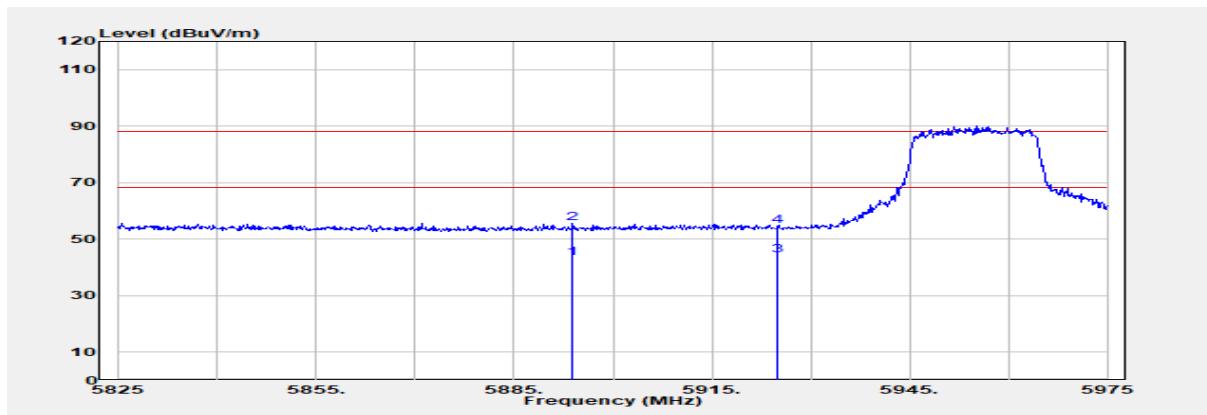
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax20  
Test Frequency :5955 MHz  
Test Mode :BE CH LOW RU FULL  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Vertical  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5893.850	Average	39.13	4.02	43.15	68.20	-25.05
5893.850	Peak	51.64	4.02	55.66	88.20	-32.54
5925.000	Average	39.98	4.36	44.33	68.20	-23.87
5925.000	Peak	50.22	4.36	54.58	88.20	-33.62

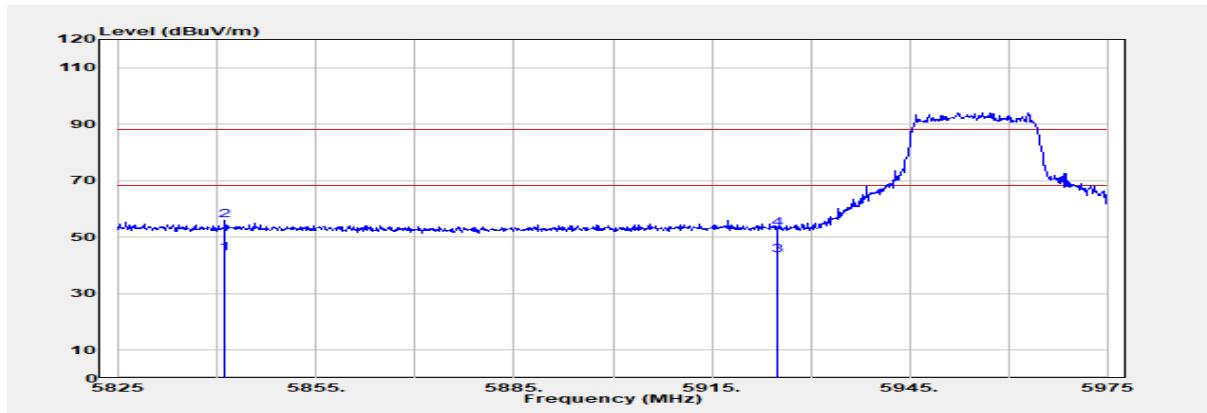
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Report Number :ER/2021/C0067  
 Operation Mode :802.11ax20  
 Test Frequency :5955 MHz  
 Test Mode :BE CH LOW RU FULL  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2022-01-20  
 Temp./Humi. :22.9/61  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5841.050	Average	39.80	4.31	44.11	68.20	-24.09
5841.050	Peak	51.75	4.31	56.06	88.20	-32.14
5925.000	Average	39.14	4.36	43.50	68.20	-24.70
5925.000	Peak	48.67	4.36	53.03	88.20	-35.17

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Report Number :ER/2021/C0067

Operation Mode :802.11ax20

Test Frequency :5955 MHz

Test Mode :BE CH LOW RU 26/0

EUT Pol :NB Plane

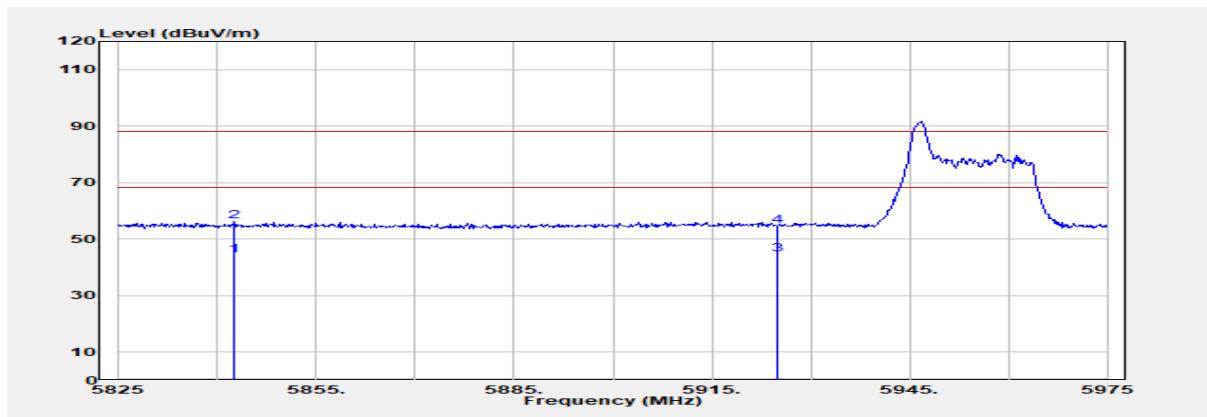
Test Site :SAC G

Test Date :2022-01-20

Temp./Humi. :22.9/61

Antenna Pol. :Vertical

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5842.550	Average	39.94	4.31	44.25	68.20	-23.95
5842.550	Peak	51.82	4.31	56.13	88.20	-32.07
5925.000	Average	40.06	4.36	44.42	68.20	-23.78
5925.000	Peak	50.19	4.36	54.54	88.20	-33.66

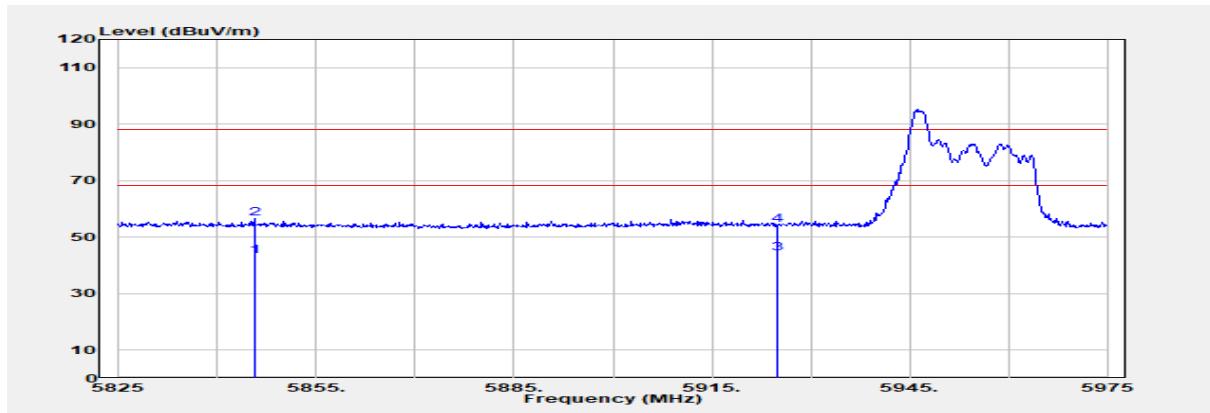
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Report Number :ER/2021/C0067  
 Operation Mode :802.11ax20  
 Test Frequency :5955 MHz  
 Test Mode :BE CH LOW RU 26/0  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2022-01-20  
 Temp./Humi. :22.9/61  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5845.550	Average	38.96	4.31	43.27	68.20	-24.93
5845.550	Peak	52.15	4.31	56.46	88.20	-31.74
5925.000	Average	40.01	4.36	44.36	68.20	-23.84
5925.000	Peak	49.93	4.36	54.28	88.20	-33.92

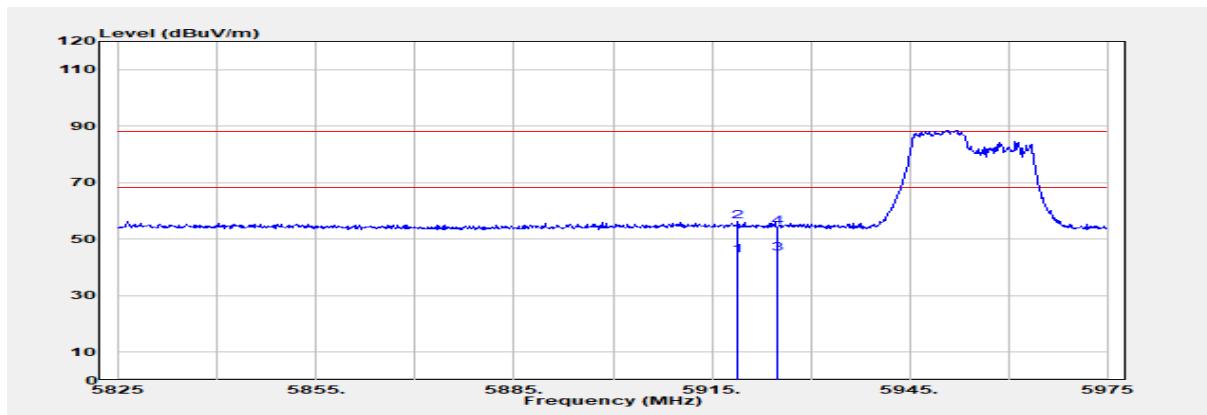
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax20  
Test Frequency :5955 MHz  
Test Mode :BE CH LOW RU 106/53  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Vertical  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5918.900	Average	39.88	4.37	44.25	68.20	-23.95
5918.900	Peak	52.01	4.37	56.39	88.20	-31.81
5925.000	Average	40.40	4.36	44.76	68.20	-23.44
5925.000	Peak	49.81	4.36	54.17	88.20	-34.03

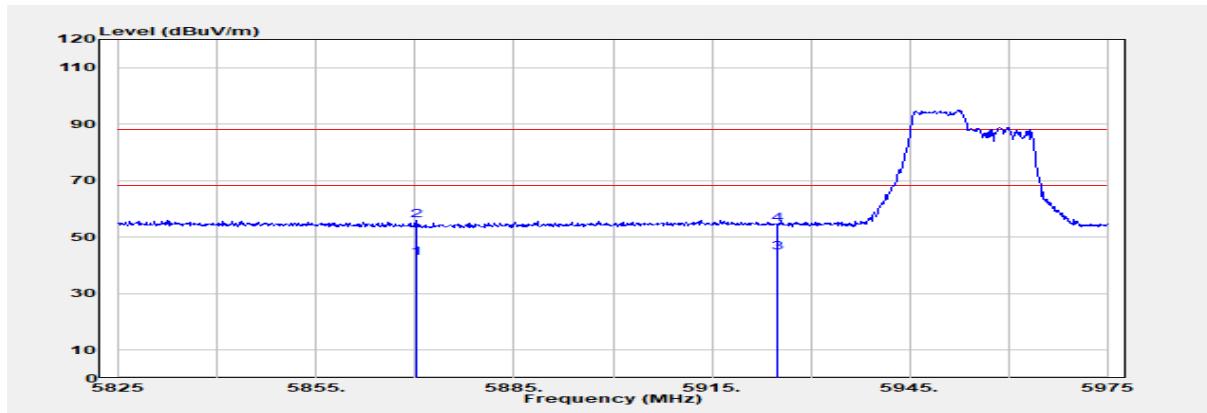
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Report Number :ER/2021/C0067  
 Operation Mode :802.11ax20  
 Test Frequency :5955 MHz  
 Test Mode :BE CH LOW RU 106/53  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2022-01-20  
 Temp./Humi. :22.9/61  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5870.150	Average	38.77	3.96	42.73	68.20	-25.47
5870.150	Peak	51.99	3.96	55.95	88.20	-32.25
5925.000	Average	40.04	4.36	44.40	68.20	-23.80
5925.000	Peak	50.12	4.36	54.47	88.20	-33.73

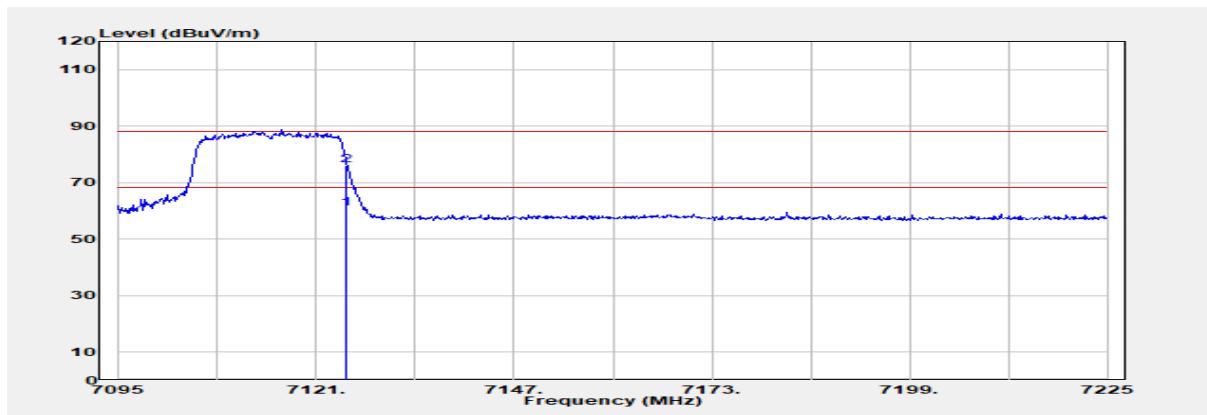
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax20  
Test Frequency :7115 MHz  
Test Mode :BE CH HIGH RU FULL  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Vertical  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	53.59	7.39	60.97	68.20	-7.23
7125.000	Peak	68.82	7.39	76.21	88.20	-11.99

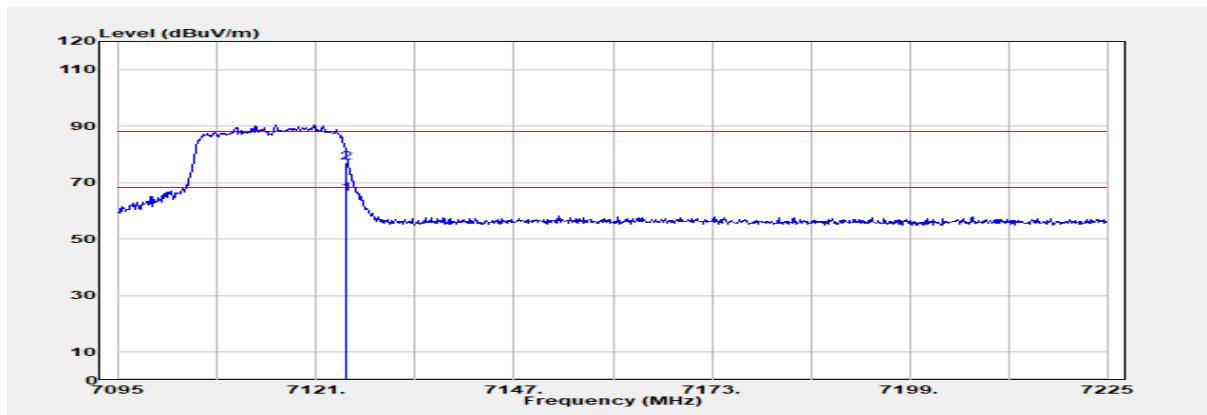
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax20  
Test Frequency :7115 MHz  
Test Mode :BE CH HIGH RU FULL  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Horizontal  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	58.47	7.39	65.86	68.20	-2.34
7125.000	Peak	69.81	7.39	77.19	88.20	-11.01

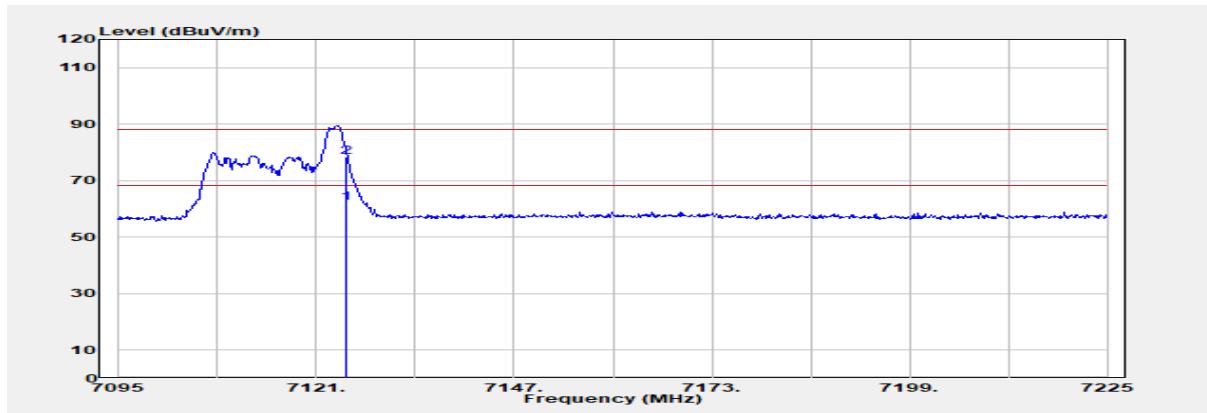
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax20  
Test Frequency :7115 MHz  
Test Mode :BE CH HIGH RU 26/8  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Vertical  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	54.86	7.39	62.24	68.20	-5.96
7125.000	Peak	71.10	7.39	78.49	88.20	-9.71

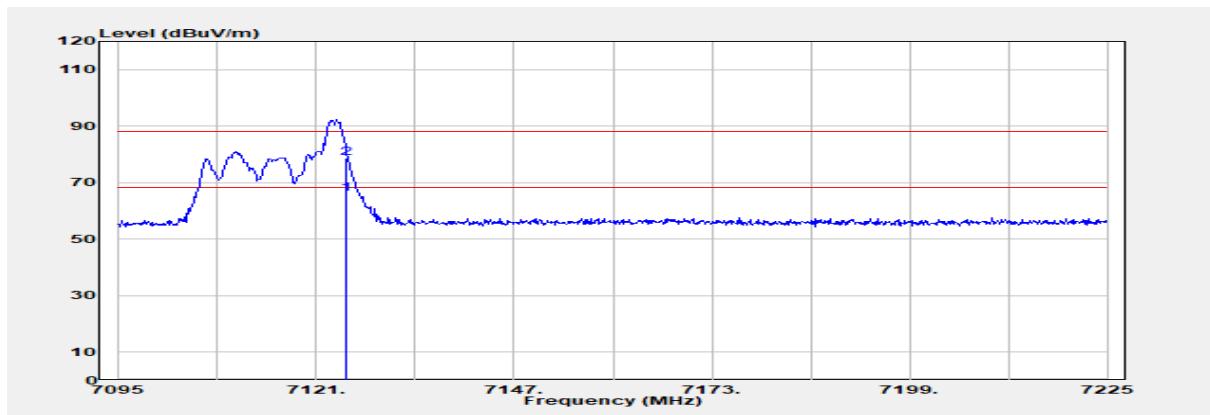
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax20  
Test Frequency :7115 MHz  
Test Mode :BE CH HIGH RU 26/8  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Horizontal  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	58.62	7.39	66.01	68.20	-2.19
7125.000	Peak	71.45	7.39	78.83	88.20	-9.37

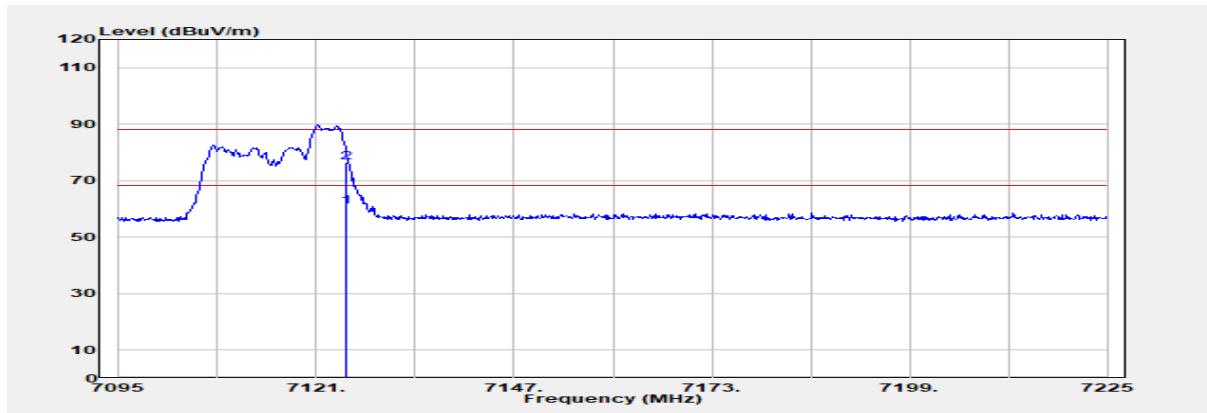
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax20  
Test Frequency :7115 MHz  
Test Mode :BE CH HIGH RU 52/40  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Vertical  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	53.41	7.39	60.79	68.20	-7.41
7125.000	Peak	69.18	7.39	76.57	88.20	-11.63

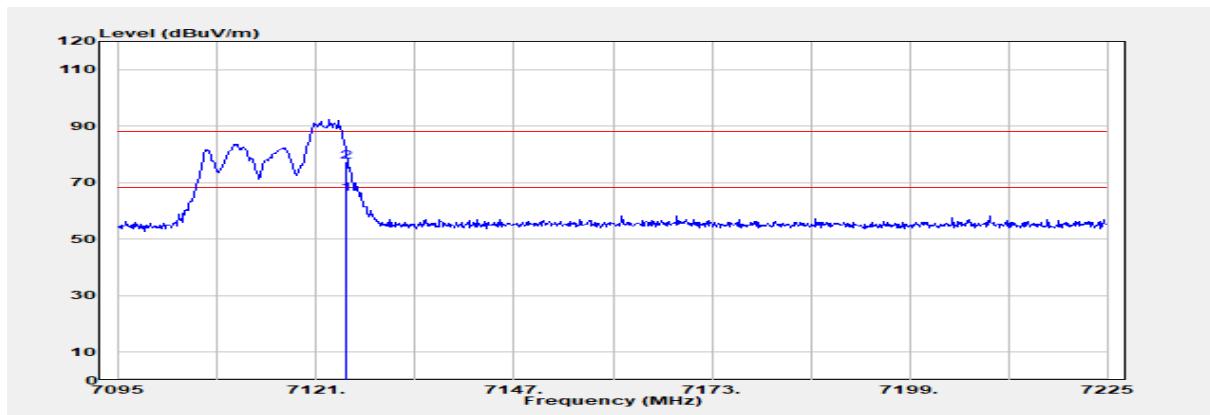
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax20  
Test Frequency :7115 MHz  
Test Mode :BE CH HIGH RU 52/40  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Horizontal  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	58.73	7.39	66.12	68.20	-2.08
7125.000	Peak	70.05	7.39	77.44	88.20	-10.76

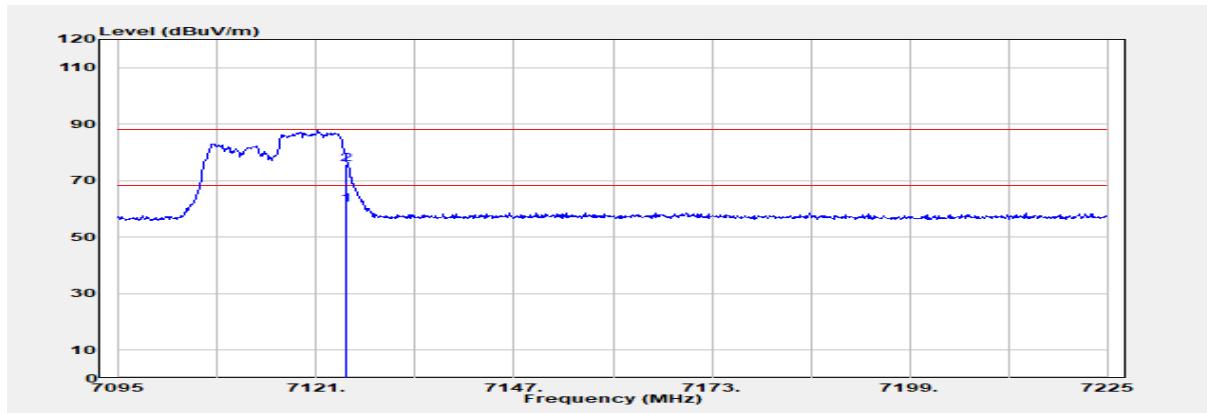
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax20  
Test Frequency :7115 MHz  
Test Mode :BE CH HIGH RU 106/54  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Vertical  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	53.97	7.39	61.36	68.20	-6.84
7125.000	Peak	68.47	7.39	75.86	88.20	-12.34

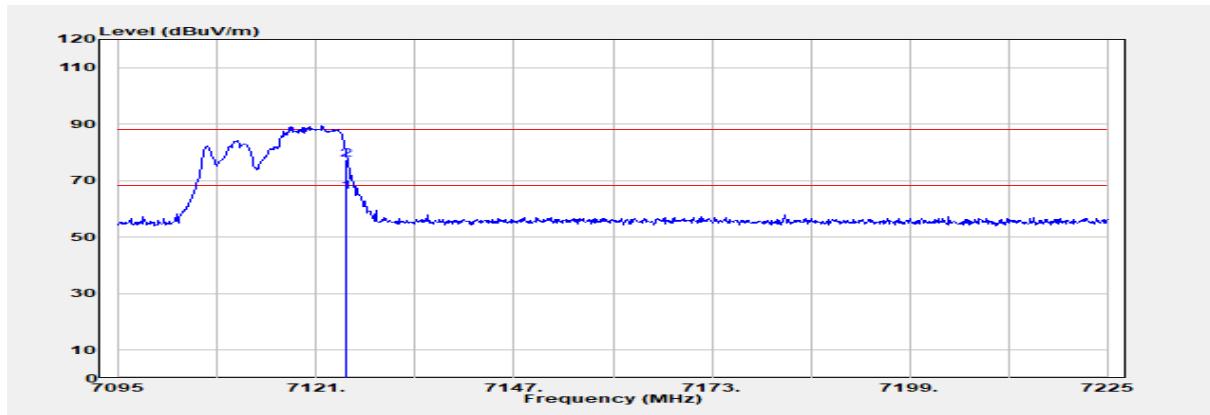
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax20  
Test Frequency :7115 MHz  
Test Mode :BE CH HIGH RU 106/54  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Horizontal  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	58.51	7.39	65.89	68.20	-2.31
7125.000	Peak	70.10	7.39	77.48	88.20	-10.72

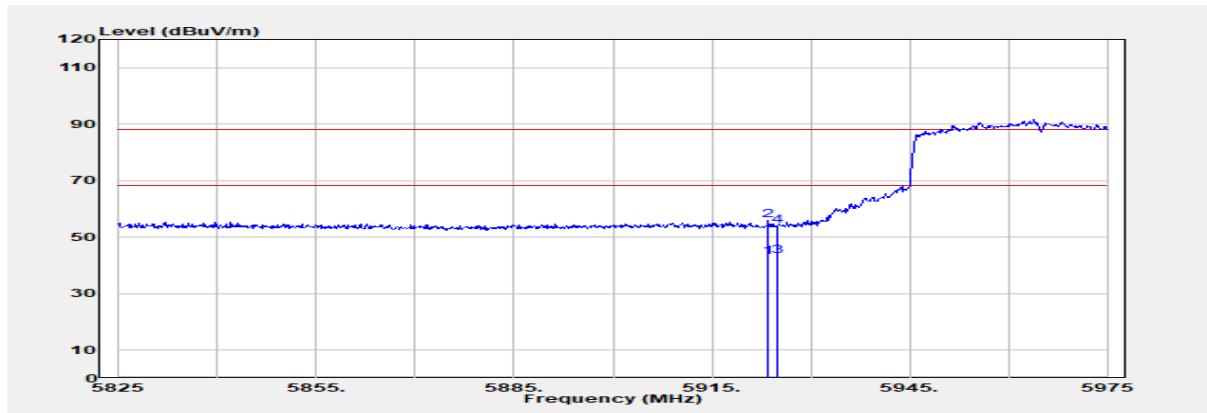
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Report Number :ER/2021/C0067  
 Operation Mode :802.11ax40  
 Test Frequency :5965 MHz  
 Test Mode :BE CH LOW RU FULL  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2022-01-20  
 Temp./Humi. :22.9/61  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5923.550	Average	38.72	4.36	43.08	68.20	-25.12
5923.550	Peak	51.53	4.36	55.89	88.20	-32.31
5925.000	Average	38.89	4.36	43.24	68.20	-24.96
5925.000	Peak	49.56	4.36	53.92	88.20	-34.28

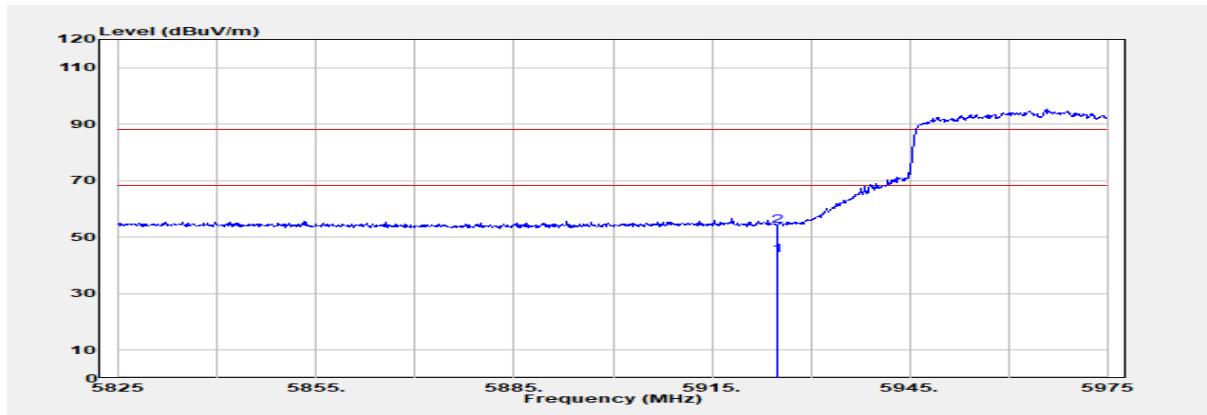
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax40  
Test Frequency :5965 MHz  
Test Mode :BE CH LOW RU FULL  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Horizontal  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5925.000	Average	39.11	4.36	43.46	68.20	-24.74
5925.000	Peak	49.58	4.36	53.93	88.20	-34.27

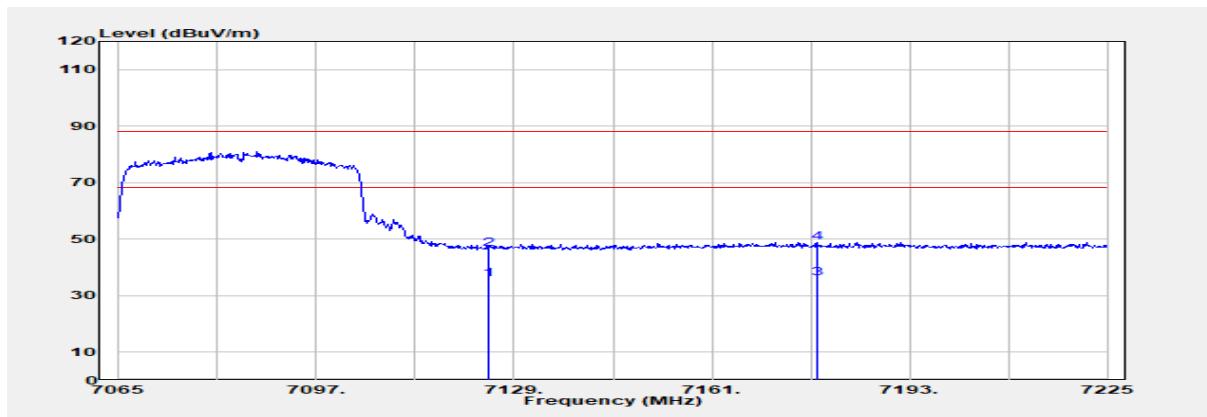
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax40  
Test Frequency :7085 MHz  
Test Mode :BE CH HIGH RU FULL  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Vertical  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	38.40	-2.71	35.69	68.20	-32.51
7125.000	Peak	49.34	-2.71	46.63	88.20	-41.57
7177.960	Average	38.24	-2.23	36.01	68.20	-32.19
7177.960	Peak	51.17	-2.23	48.93	88.20	-39.27

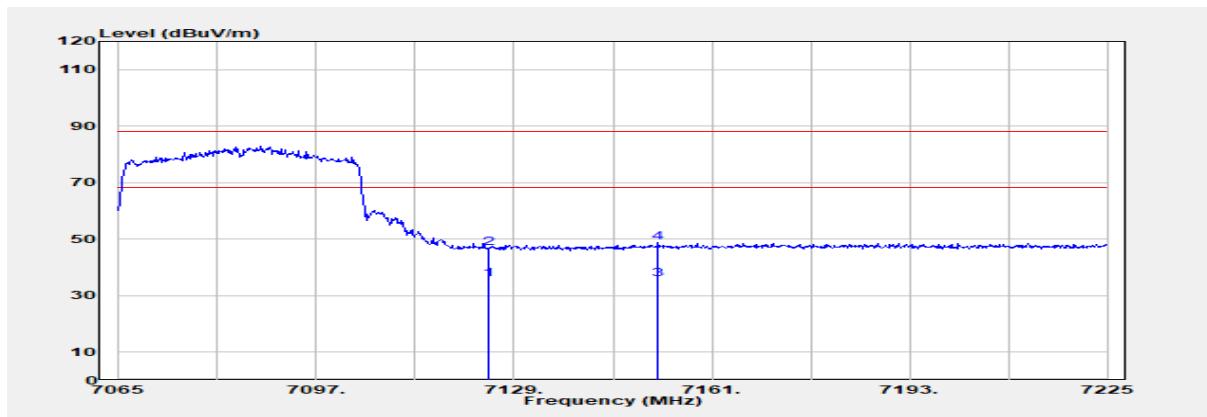
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax40  
Test Frequency :7085 MHz  
Test Mode :BE CH HIGH RU FULL  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Horizontal  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	38.39	-2.71	35.68	68.20	-32.52
7125.000	Peak	49.48	-2.71	46.77	88.20	-41.43
7152.360	Average	38.45	-2.58	35.87	68.20	-32.33
7152.360	Peak	51.25	-2.58	48.67	88.20	-39.53

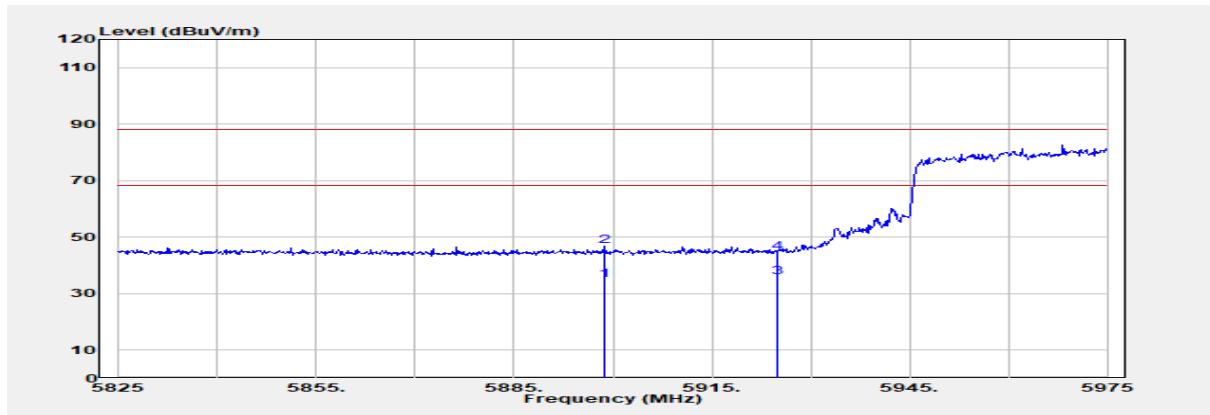
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Report Number :ER/2021/C0067  
 Operation Mode :802.11ax80  
 Test Frequency :5985 MHz  
 Test Mode :BE CH LOW RU FULL  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2022-01-20  
 Temp./Humi. :22.9/61  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5898.650	Average	39.63	-4.93	34.70	68.20	-33.50
5898.650	Peak	51.75	-4.93	46.82	88.20	-41.38
5925.000	Average	40.63	-4.69	35.93	68.20	-32.27
5925.000	Peak	49.17	-4.69	44.48	88.20	-43.72

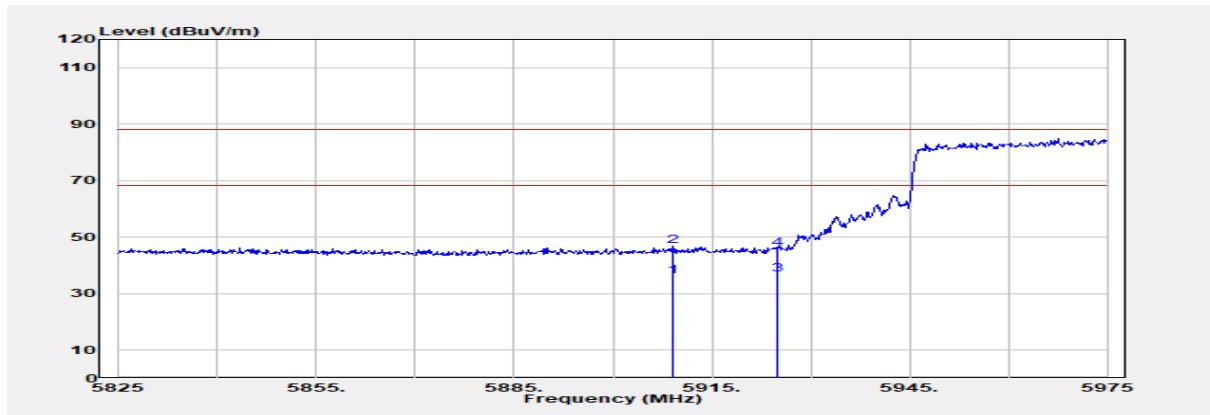
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Report Number :ER/2021/C0067  
 Operation Mode :802.11ax80  
 Test Frequency :5985 MHz  
 Test Mode :BE CH LOW RU FULL  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2022-01-20  
 Temp./Humi. :22.9/61  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5909.150	Average	40.75	-4.70	36.05	68.20	-32.15
5909.150	Peak	51.49	-4.70	46.79	88.20	-41.41
5925.000	Average	41.50	-4.69	36.81	68.20	-31.39
5925.000	Peak	50.41	-4.69	45.71	88.20	-42.49

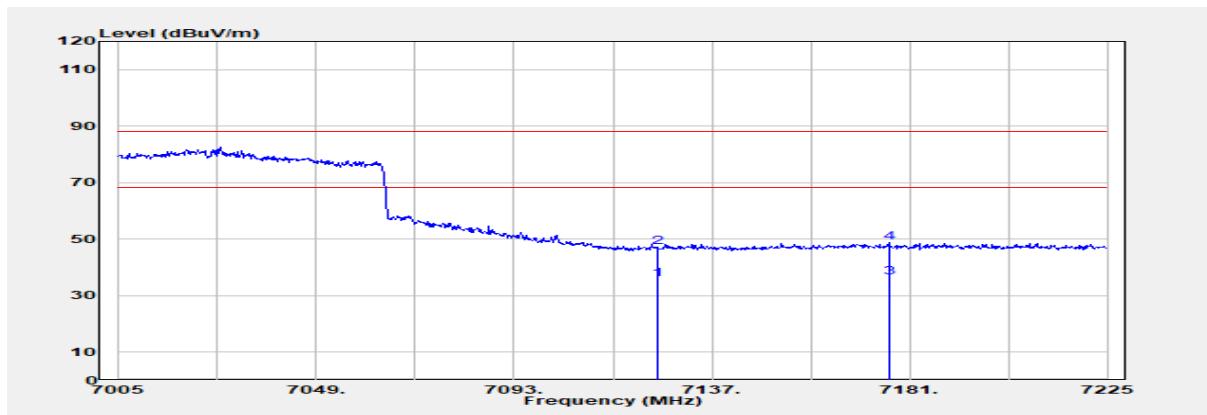
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax80  
Test Frequency :7025 MHz  
Test Mode :BE CH HIGH RU FULL  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Vertical  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	38.38	-2.71	35.67	68.20	-32.53
7125.000	Peak	49.81	-2.71	47.10	88.20	-41.10
7176.380	Average	38.49	-2.20	36.29	68.20	-31.91
7176.380	Peak	51.06	-2.20	48.86	88.20	-39.34

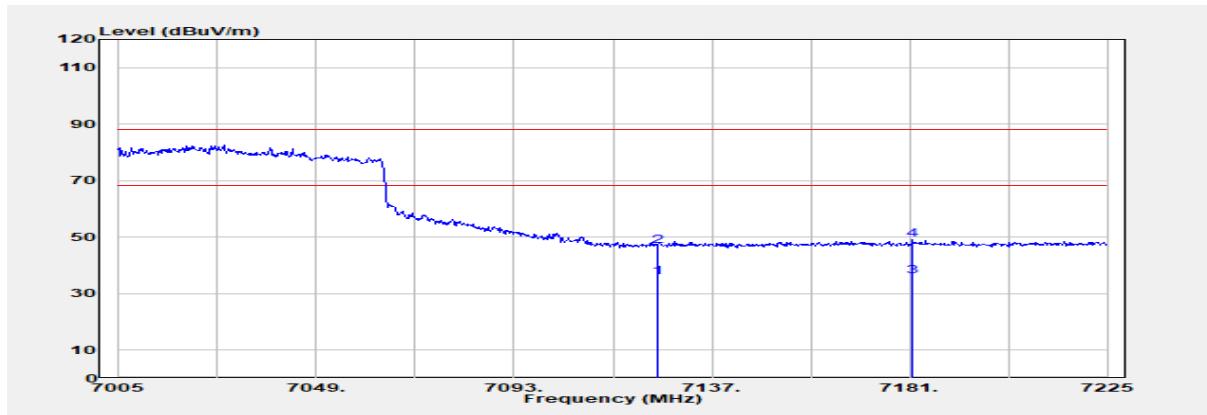
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Report Number :ER/2021/C0067  
Operation Mode :802.11ax80  
Test Frequency :7025 MHz  
Test Mode :BE CH HIGH RU FULL  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2022-01-20  
Temp./Humi. :22.9/61  
Antenna Pol. :Horizontal  
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	38.35	-2.71	35.64	68.20	-32.56
7125.000	Peak	49.63	-2.71	46.92	88.20	-41.28
7181.660	Average	38.42	-2.30	36.12	68.20	-32.08
7181.660	Peak	51.40	-2.30	49.10	88.20	-39.10

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Report Number :ER/2021/C0067

Operation Mode :802.11ax160

Test Frequency :6025 MHz

Test Mode :BE CH LOW RU FULL

EUT Pol :NB Plane

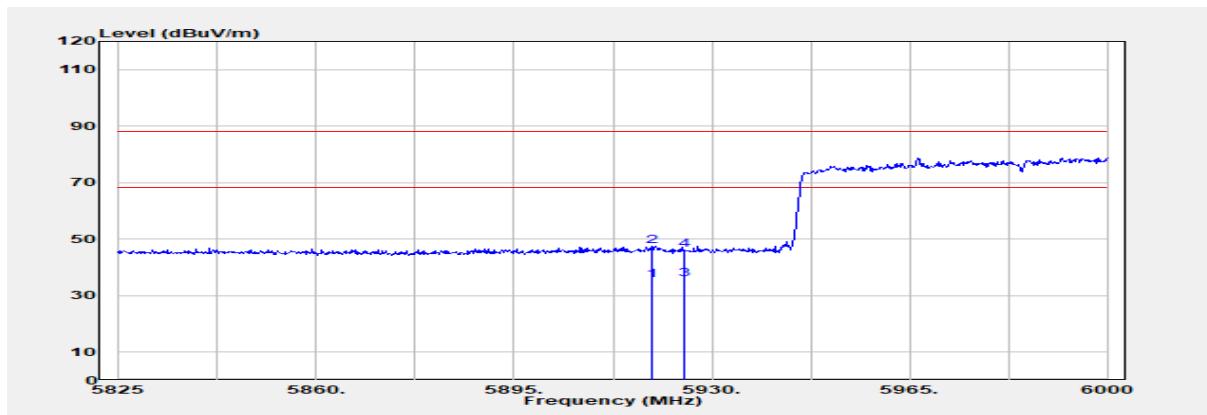
Test Site :SAC G

Test Date :2022-01-20

Temp./Humi. :22.9/61

Antenna Pol. :Vertical

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5919.325	Average	39.98	-4.69	35.29	68.20	-32.91
5919.325	Peak	52.12	-4.69	47.43	88.20	-40.77
5925.000	Average	40.39	-4.69	35.70	68.20	-32.50
5925.000	Peak	50.72	-4.69	46.02	88.20	-42.18

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Report Number :ER/2021/C0067

Operation Mode :802.11ax160

Test Frequency :6025 MHz

Test Mode :BE CH LOW RU FULL

EUT Pol :NB Plane

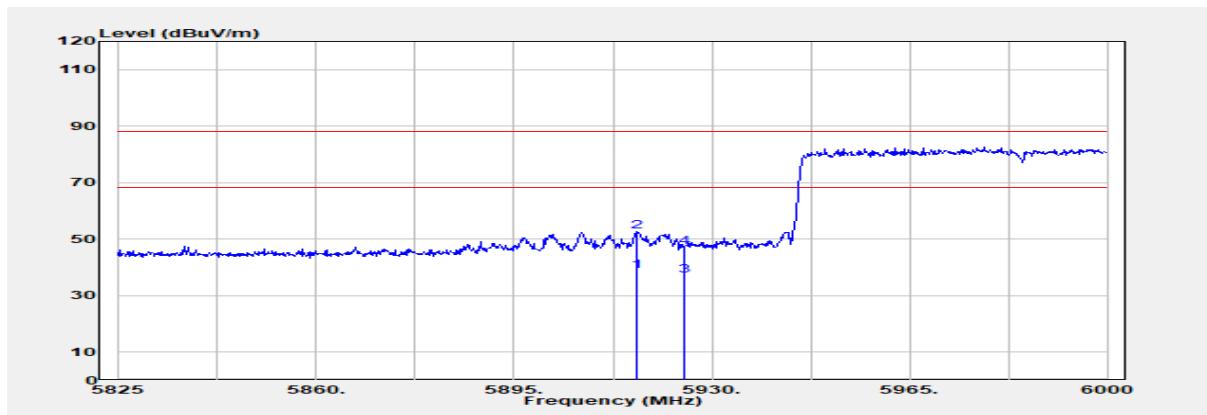
Test Site :SAC G

Test Date :2022-01-20

Temp./Humi. :22.9/61

Antenna Pol. :Horizontal

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5916.700	Average	43.33	-4.69	38.64	68.20	-29.56
5916.700	Peak	57.37	-4.69	52.68	88.20	-35.52
5925.000	Average	41.81	-4.69	37.11	68.20	-31.09
5925.000	Peak	51.97	-4.69	47.28	88.20	-40.92

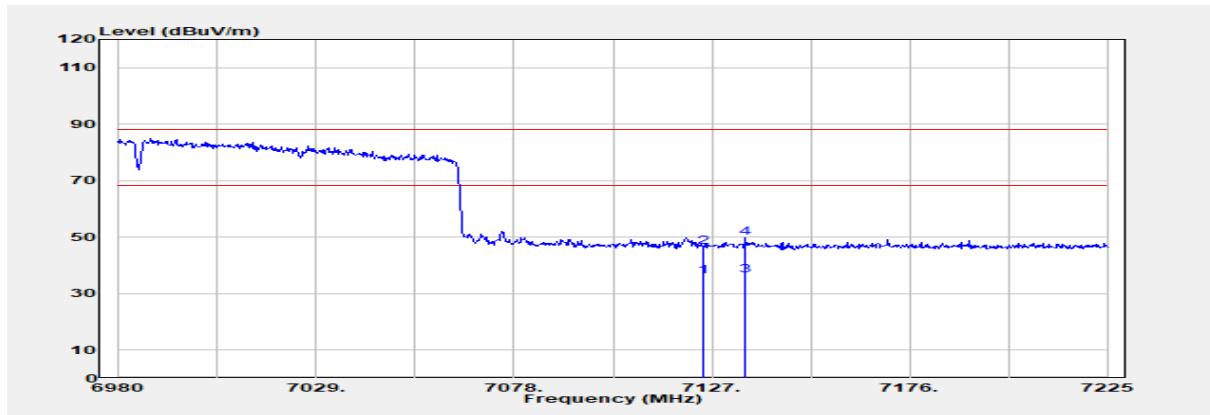
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Report Number :ER/2021/C0067  
 Operation Mode :802.11ax160  
 Test Frequency :6985 MHz  
 Test Mode :BE CH HIGH RU FULL  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2022-01-20  
 Temp./Humi. :22.9/61  
 Antenna Pol. :Vertical  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	38.76	-2.71	36.05	68.20	-32.15
7125.000	Peak	49.06	-2.71	46.35	88.20	-41.85
7135.330	Average	39.22	-2.77	36.45	68.20	-31.75
7135.330	Peak	52.45	-2.77	49.68	88.20	-38.52

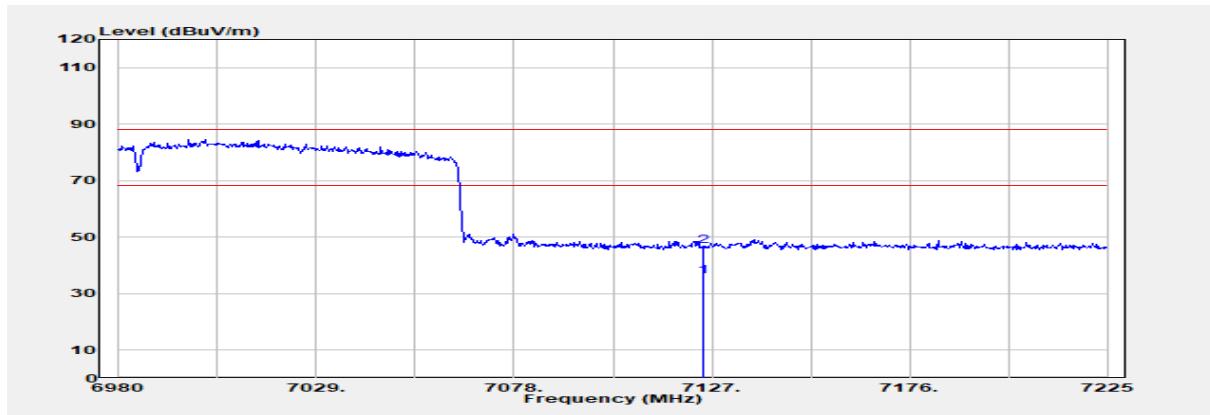
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Report Number :ER/2021/C0067  
 Operation Mode :802.11ax160  
 Test Frequency :6985 MHz  
 Test Mode :BE CH HIGH RU FULL  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2022-01-20  
 Temp./Humi. :22.9/61  
 Antenna Pol. :Horizontal  
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
7125.000	Average	38.86	-2.71	36.15	68.20	-32.05
7125.000	Peak	49.62	-2.71	46.91	88.20	-41.29

~ *End of 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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