

**ELECTROMAGNETIC EMISSIONS  
COMPLIANCE REPORT  
CLASS II PC REPORT**

**FCC Applicant:** Acer Incorporated  
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City  
22181, Taiwan (R.O.C)

**Product Name:** 7c Modular Platform

**Brand Name:** 

**Model No.:** QSIP7180

**Model Difference:** N/A

**Report Number:** ER/2021/70041

**FCC ID** HLZQSIP7180

**Issue Date:** Sep. 07, 2021

**Date of Test:** Jul. 22, 2021 ~ Sep. 01, 2021

**Date of EUT Received:** Jul. 09, 2021

Approved By \_\_\_\_\_

CHUN-CHIEH, CHEN

**Chun Chieh Chen**

**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
ER/2021/70041	Rev.00	Original.	Sep. 07, 2021	Yi-Shan Tsai

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# 1 GENERAL INFORMATION

## 1.1 Product Description

Product Name:	7c Modular Platform
Brand Name:	<i>acer</i>
Model No.:	QSIP7180
Model No. of Host:	N20Q7
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	N8DAISY005117007F37600 (Conducted) N8A4DWW0031241CABC7600 (Radiated)
Power Supply:	11.4Vdc from Rechargeable Li-polymer Battery Pack 19Vdc from AC/DC Adapter

## 1.2 Modulation & Data Rate

Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only
Transission Rate	802.11 a: 6.5 – 54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps 802.11 ac_20MHz: 6.5 – 173.4Mbps 802.11 ac_40MHz: 13.5 – 400.0Mbps 802.11 ac_80MHz: 29.3 – 866.6Mbps

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### 1.3 Antenna Designation

Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	WNC	Main	DQ6A15GC700	5150~5250	-0.25	
				5250~5350	-0.63	
				5470~5725	0.26	
				5725~5850	0.26	V
		Aux		5150~5250	0.9	V
				5250~5350	0.9	V
				5470~5725	1.62	V
				5725~5850	-0.76	

**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.

Freq.(MHz)	Directional Gain (dBi)
5150~5250	3.35
5250~5350	3.18
5470~5725	3.98
5725~5850	2.78

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1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a n_HT ac_VHT 20M	5180~5240	4	21.18 dBm	OFDM
	5260~5320	4	21.09 dBm	OFDM
	5500~5720	12	20.76 dBm	OFDM
	5745-5825	5	20.92 dBm	OFDM
n_HT ac_VHT 40M	5190~5230	2	20.73 dBm	OFDM
	5270~5310	2	20.88 dBm	OFDM
	5510~5710	6	20.94 dBm	OFDM
	5755-5795	2	20.65 dBm	OFDM
ac_VHT 80M	5210	1	15.56 dBm	OFDM
	5290	1	14.46 dBm	OFDM
	5530~5690	3	20.91 dBm	OFDM
	5775	1	20.74 dBm	OFDM

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**1.5 Test Methodology of Applied Standards**

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

**1.6 Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
		Conducted 7		
		Conducted 8		
	Conducted 9			
	Conducted 10			
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction A	TW0028	
		SAC C		
		SAC D		
		SAC E		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
Conducted F				
Conducted G				
Conducted H				
Conducted I				
Conducted J				
Conducted TS8997				

**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.

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## 1.7 Special Accessories

There are no special accessories used while test was conducted.

## 1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Conducted Test (RF)

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

#### 2.3.2 Radiated Emissions

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

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## 2.4 Measurement Results Explanation Example

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

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

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

### 2.4.2 For all conducted test items:

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

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission



Fig. 2-2 Conducted (Antenna Port) Configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

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### 3 SUMMARY OF TEST RESULT

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

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## 4 DESCRIPTION OF TEST MODES

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

#### Operated band in 5150 MHz ~5250 MHz:

20 M	
CH	Freq (MHz)
36	5180
40	5200
44	5220
48	5240

40 M	
CH	Freq (MHz)
38	5190
46	5230

80 M	
CH	Freq (MHz)
42	5210

#### Operated band in 5250 MHz ~5350 MHz:

20 M	
CH	Freq (MHz)
52	5260
56	5280
60	5300
64	5320

40 M	
CH	Freq (MHz)
54	5270
62	5310

80 M	
CH	Freq (MHz)
58	5290

#### Operated band in 5470 MHz ~5725 MHz:

20 M	
CH	Freq (MHz)
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700
144	5720

40 M	
CH	Freq (MHz)
102	5510
110	5550
118	5590
126	5630
134	5670
142	5710

80 M	
CH	Freq (MHz)
106	5530
122	5610
138	5690

#### Operated band in 5745 MHz ~5850 MHz:

20 M	
CH	Freq (MHz)
149	5745
153	5765
157	5785
161	5805
165	5825

40 M	
CH	Freq (MHz)
151	5755
159	5795

80 M	
CH	Freq (MHz)
155	5775

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#### 4.2 The Worst Test Modes and Channel Details

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

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" type="checkbox"/> MIMO

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

##### 4.2.1 RADIATED EMISSION TEST:

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	2TX
	5260~5320	52 to 64	60			
	5500~5720	100 to 144	116			
	5745~5825	149 to 165	157			

**Note:** The field strength of radiation emission was measured as NB Plane for channel Low, Mid and High.

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**4.2.2 ANTENNA PORT CONDUCTED MEASUREMENT:**

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS8	MIMO
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106,122,138			
	5775	155	155			

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## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
The Maximum Output Power Measurement	+/- 1 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 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 6.1 Standard Applicable

#### FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device )	1 Watt(30dBm)
		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)

If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

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**Note:**

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

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

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

**6.2 Measurement Procedure**

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

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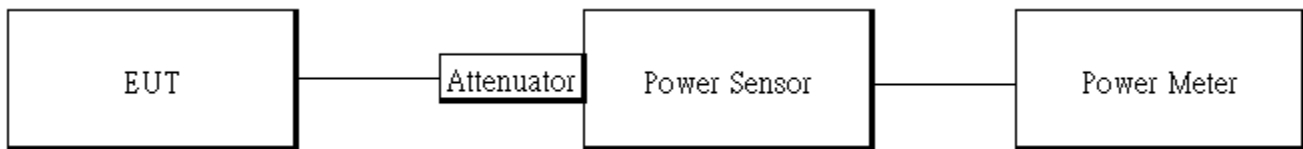
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### 6.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	10/20/2020	10/19/2021
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

### 6.4 Test Set-up



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## 6.5 Measurement Result

### 6.5.1 Conducted output power (FCC)

#### 802.11a\_2TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	6	17.58	16.88	20.34	108.196	23.98	PASS
44	5220	6	18.18	17.76	21.07	128.030	23.98	PASS
48	5240	6	18.23	17.92	<b>21.18</b>	131.093	23.98	PASS
52	5260	6	18.07	17.91	<b>21.09</b>	128.492	23.98	PASS
60	5300	6	18.17	17.54	20.96	124.866	23.98	PASS
64	5320	6	17.25	16.62	20.04	101.029	23.98	PASS
100	5500	6	17.42	17.43	<b>20.52</b>	112.799	23.98	PASS
116	5580	6	16.47	16.93	19.80	95.590	23.98	PASS
140	5700	6	17.44	17.24	20.44	110.642	23.98	PASS
144	5720	6	17.01	16.47	19.85	96.576	23.98	PASS
149	5745	6	17.42	17.77	20.70	117.397	30	PASS
157	5785	6	17.61	17.81	<b>20.81</b>	120.481	30	PASS
165	5825	6	17.71	17.44	20.68	116.819	30	PASS

#### 802.11n\_HT20\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	17.81	17.13	20.58	114.323	23.98	PASS
44	5220	MCS8	17.85	17.48	20.77	119.316	23.98	PASS
48	5240	MCS8	17.94	17.63	<b>20.89</b>	122.625	23.98	PASS
52	5260	MCS8	17.91	17.68	20.89	122.873	23.98	PASS
60	5300	MCS8	18.14	17.7	<b>21.02</b>	126.579	23.98	PASS
64	5320	MCS8	17.35	16.72	20.14	103.382	23.98	PASS
100	5500	MCS8	17.68	17.64	<b>20.76</b>	119.072	23.98	PASS
116	5580	MCS8	17.24	17.54	20.49	111.960	23.98	PASS
140	5700	MCS8	16.29	16.35	19.42	87.461	23.98	PASS
144	5720	MCS8	17.59	17.27	20.53	113.064	23.98	PASS
149	5745	MCS8	17.45	17.63	20.64	115.850	30	PASS
157	5785	MCS8	17.49	17.68	20.68	117.060	30	PASS
165	5825	MCS8	17.93	17.71	<b>20.92</b>	123.579	30	PASS

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802.11ac\_VHT20\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS0	17.69	17.06	20.48	111.801	23.98	PASS
44	5220	MCS0	17.63	17.08	20.46	111.218	23.98	PASS
48	5240	MCS0	17.59	17.14	20.47	111.400	23.98	PASS
52	5260	MCS0	17.72	17.25	20.59	114.535	23.98	PASS
60	5300	MCS0	18.02	17.44	20.84	121.275	23.98	PASS
64	5320	MCS0	17.01	16.44	19.83	96.214	23.98	PASS
100	5500	MCS0	17.21	17.22	20.31	107.474	23.98	PASS
116	5580	MCS0	16.81	17.13	20.07	101.648	23.98	PASS
140	5700	MCS0	15.84	15.86	18.95	78.488	23.98	PASS
144	5720	MCS0	17.48	17.21	20.45	110.851	23.98	PASS
149	5745	MCS0	17.53	17.75	20.74	118.561	30	PASS
157	5785	MCS0	17.48	17.73	20.70	117.621	30	PASS
165	5825	MCS0	17.65	17.48	20.66	116.516	30	PASS

802.11n\_HT40\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	14.53	13.96	17.44	55.487	23.98	PASS
46	5230	MCS8	17.73	17.34	20.73	118.221	23.98	PASS
54	5270	MCS8	17.8	17.59	20.88	122.570	23.98	PASS
62	5310	MCS8	11	10.51	13.95	24.828	23.98	PASS
102	5510	MCS8	15.04	15.38	18.40	69.198	23.98	PASS
110	5550	MCS8	17.55	17.94	20.94	124.078	23.98	PASS
134	5670	MCS8	17.03	16.98	20.19	104.536	23.98	PASS
142	5710	MCS8	17.59	17.45	20.71	117.784	23.98	PASS
151	5755	MCS8	17.25	17.57	20.60	114.829	30	PASS
159	5795	MCS8	17.34	17.58	20.65	116.125	30	PASS

802.11ac\_VHT40\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS0	14.63	13.95	17.49	56.116	23.98	PASS
46	5230	MCS0	17.59	17.36	20.66	116.523	23.98	PASS
54	5270	MCS0	17.69	17.51	20.79	119.909	23.98	PASS
62	5310	MCS0	10.72	10.18	13.65	23.152	23.98	PASS
102	5510	MCS0	15.22	15.43	18.51	71.021	23.98	PASS
110	5550	MCS0	17.32	17.57	20.63	115.728	23.98	PASS
134	5670	MCS0	17.03	17.06	20.23	105.502	23.98	PASS
142	5710	MCS0	17.38	17.02	20.39	109.497	23.98	PASS
151	5755	MCS0	16.97	17.24	20.29	107.021	30	PASS
159	5795	MCS0	17.27	17.57	20.61	115.085	30	PASS

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802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	12.43	12.03	15.56	35.976	23.98	PASS
58	5290	MCS0	11.31	10.96	14.46	27.951	23.98	PASS
106	5530	MCS0	12.22	12.24	15.56	35.938	23.98	PASS
122	5610	MCS0	17.23	17.65	20.77	119.414	23.98	PASS
138	5690	MCS0	17.49	17.67	20.91	123.345	23.98	PASS
155	5775	MCS0	17.48	17.35	20.74	118.603	30	PASS

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## 7 UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 7.1 Standard Applicable

#### 7.1.1 Band Edge

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

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

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

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

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### 7.1.2 Spurious Emission

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

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

**Note:**

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

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**7.2 Measurement Equipment Used: TX**

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZ-BECK	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	SCHWARZ-BECK	BBHA9120D	1441	10/16/2020	10/15/2021
Bi-log Antenna	SCHWARZ-BECK	VULB9168	300	11/18/2020	11/17/2021
Loop Antenna	ETS.LIND-GREN	6502	148045	10/19/2020	10/18/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
EMI Test Receiver	R&S	ESCI	101338	03/22/2021	03/21/2022
Pre-Amplifier	HP	8449B	3008A00578	12/16/2020	12/15/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	12/16/2020	12/15/2021
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	12/16/2020	12/15/2021
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX7.0/18G-8SS	45	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Site Cal	SGS	SAC 3	N/A	01/01/2021	12/31/2021
Test Software	audix	e3	Ver. 6.11812c	N.C.R	N.C.R

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

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**7.3 Measurement Equipment Used: Bandedge**

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022
EMI Test Receiver	R&S	ESU 40	100363	04/28/2021	04/27/2022
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF20	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R

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

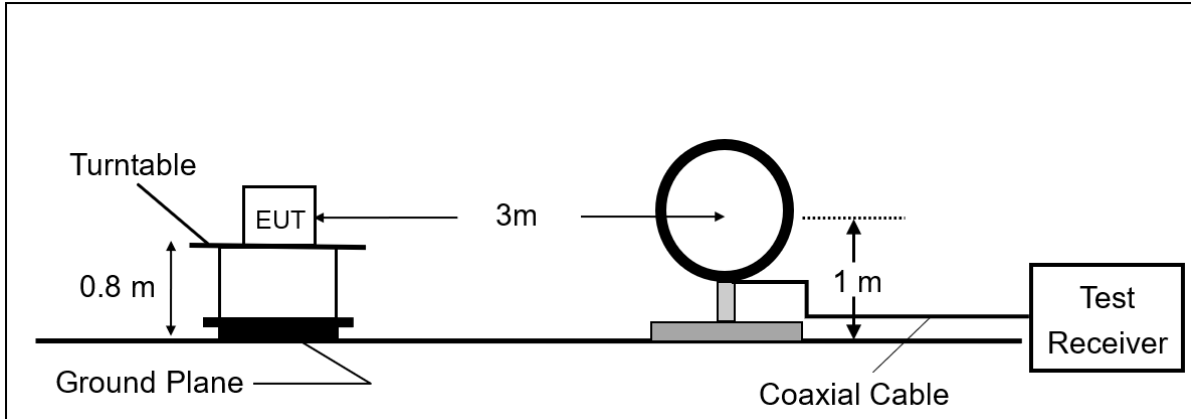
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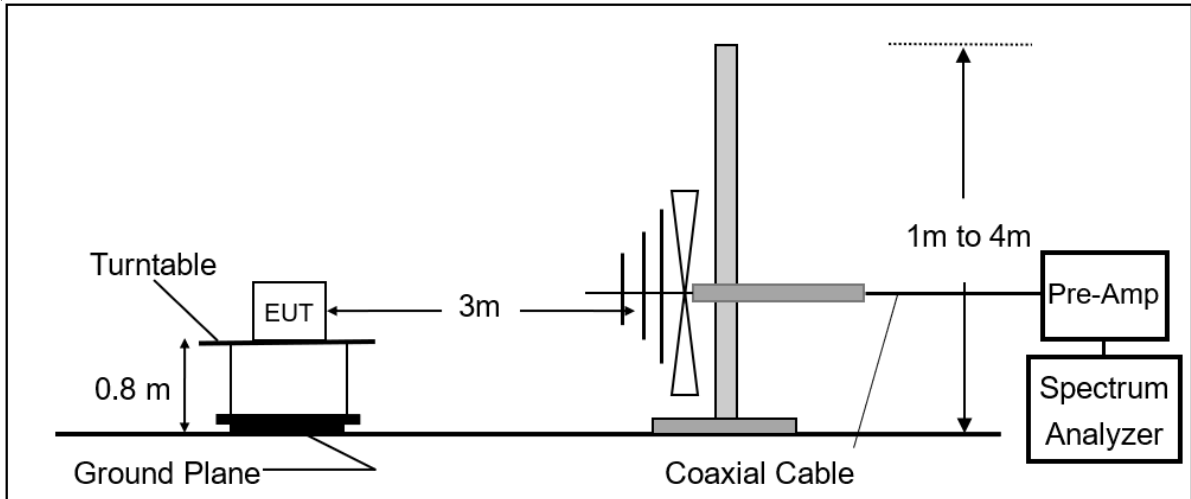
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7.4 Test SET-UP

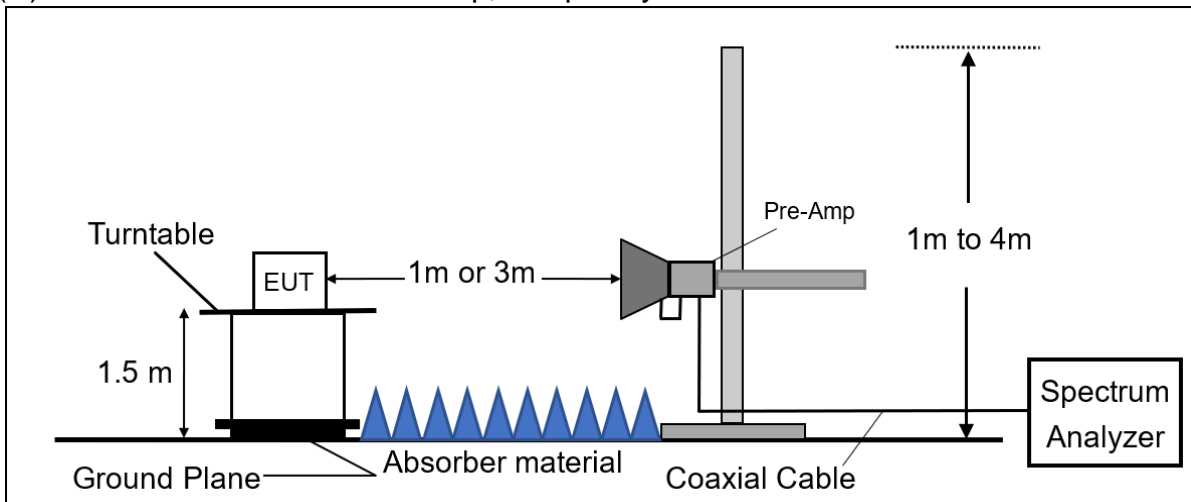
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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## 7.5 Measurement Procedure

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

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## 7.6 Field Strength Calculation

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

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

**Where** *FS* = Field Strength

*CL* = Cable Attenuation Factor (Cable Loss)

*RA* = Reading Amplitude

*AG* = Amplifier Gain

*AF* = Antenna Factor

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

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

*Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

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

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

Pre-scanned was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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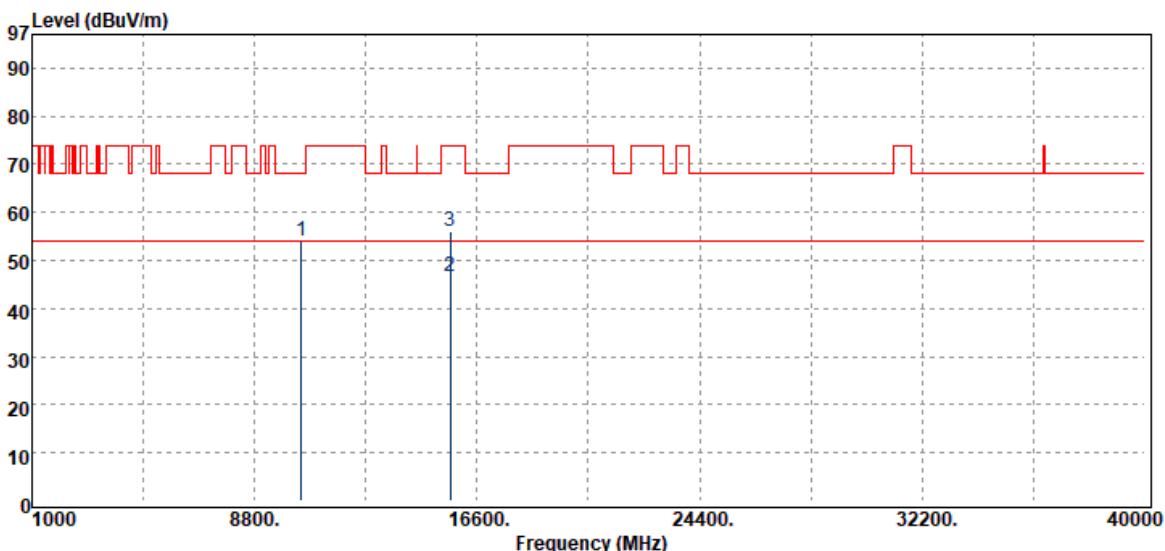
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## 7.8 Radiated Spurious Emission Measurement Result

### 7.8.1 Above 1GHz Worst-Case Data:

Report Number	:ER-2021-70041	Test Site	:SAC 3
Operation Mode	:802.11a	Test Date	:2021-08-12
Test Frequency	:5220 MHz	Temp./Humi.	:27.4/51
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10440.00	Peak	34.83	19.15	53.98	68.20	-14.22
15660.00	Average	23.26	23.23	46.49	54.00	-7.51
15660.00	Peak	32.90	23.23	56.13	74.00	-17.87

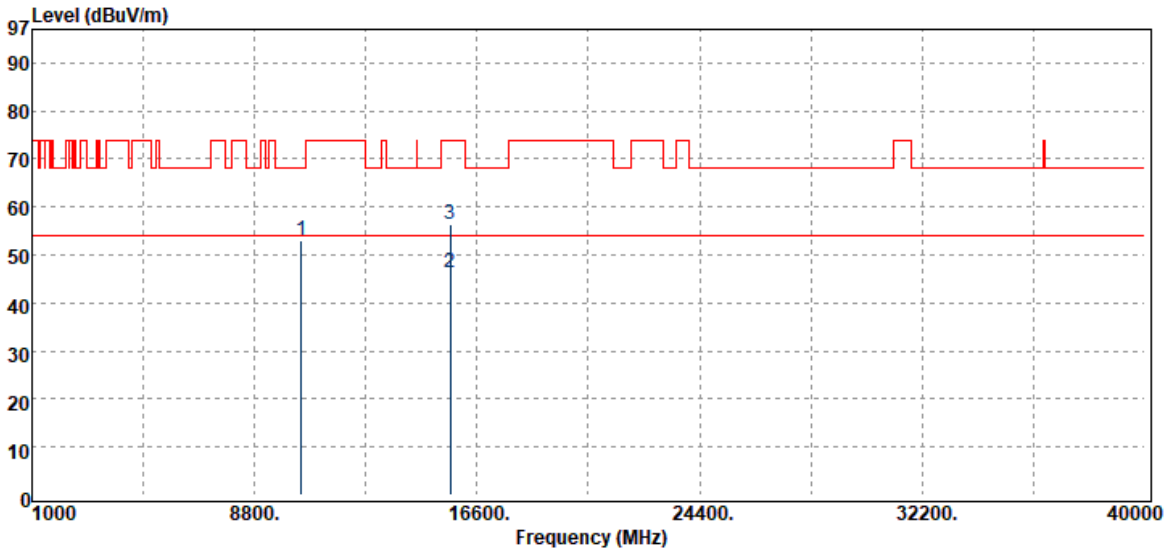
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Report Number :ER-2021-70041  
 Operation Mode :802.11a  
 Test Frequency :5220 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2021-08-12  
 Temp./Humi. :27.4/51  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky Chen



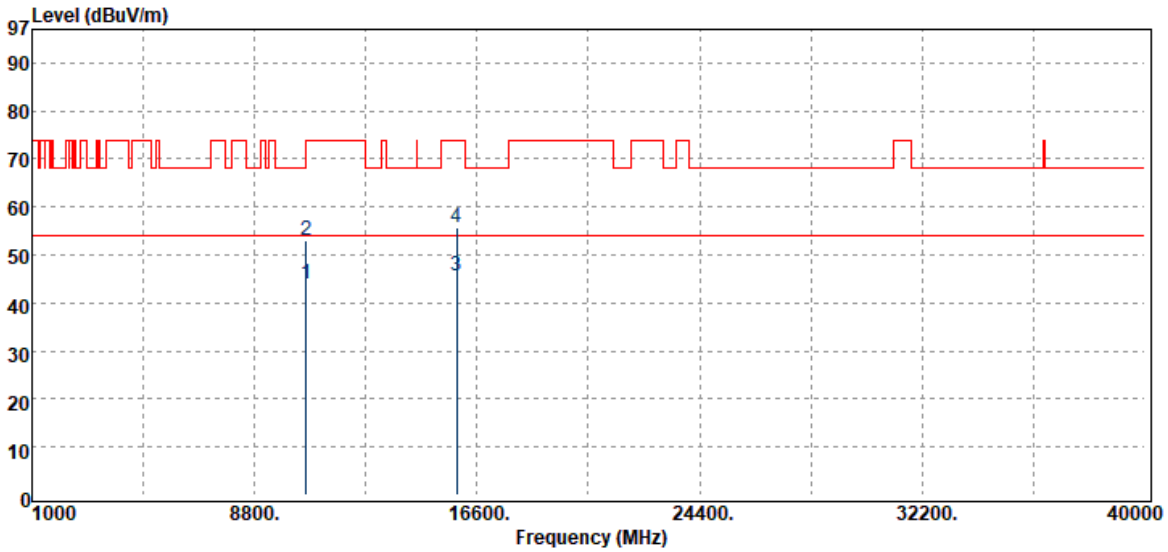
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.00	Peak	33.84	19.15	52.99	68.20	-15.21
15660.00	Average	23.24	23.23	46.47	54.00	-7.53
15660.00	Peak	33.25	23.23	56.48	74.00	-17.52

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Report Number	:ER-2021-70041	Test Site	:SAC 3
Operation Mode	:802.11a	Test Date	:2021-08-12
Test Frequency	:5300 MHz	Temp./Humi.	:27.4/51
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Ricky Chen



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
10600.00	Average	24.26	19.86	44.12	54.00	-9.88
10600.00	Peak	33.21	19.86	53.07	74.00	-20.93
15900.00	Average	23.17	22.36	45.53	54.00	-8.47
15900.00	Peak	33.51	22.36	55.87	74.00	-18.13

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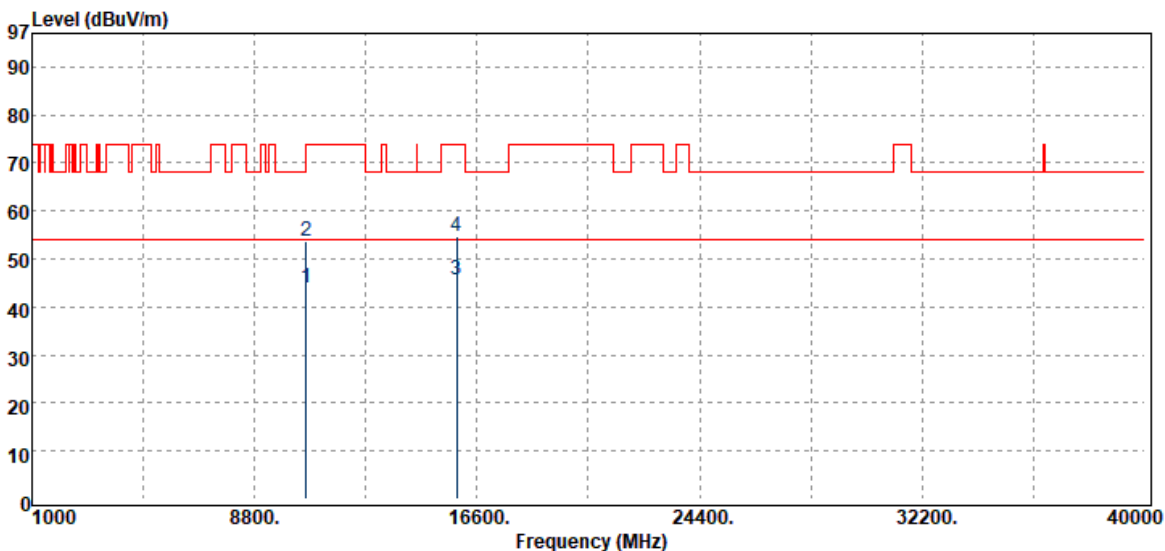
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Report Number :ER-2021-70041  
 Operation Mode :802.11a  
 Test Frequency :5300 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2021-08-12  
 Temp./Humi. :27.4/51  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky Chen



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
10600.00	Average	24.22	19.86	44.08	54.00	-9.92
10600.00	Peak	33.76	19.86	53.62	74.00	-20.38
15900.00	Average	23.18	22.36	45.54	54.00	-8.46
15900.00	Peak	32.49	22.36	54.85	74.00	-19.15

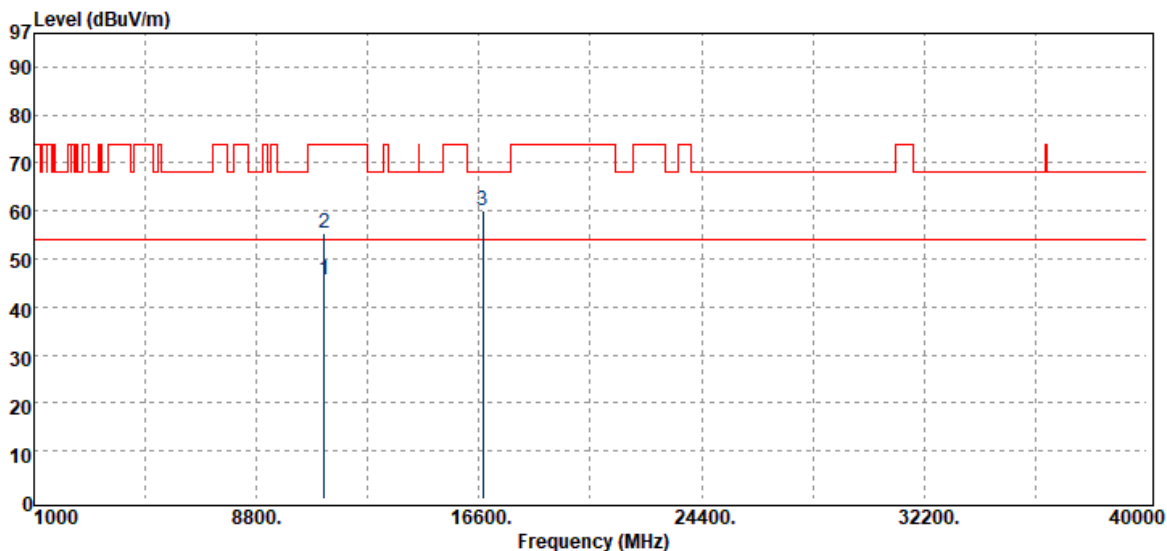
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Report Number :ER-2021-70041  
 Operation Mode :802.11a  
 Test Frequency :5580 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2021-08-12  
 Temp./Humi. :27.4/51  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky Chen



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
11160.00	Average	23.99	21.60	45.59	54.00	-8.41
11160.00	Peak	33.76	21.60	55.36	74.00	-18.64
16740.00	Peak	32.15	28.00	60.15	68.20	-8.05

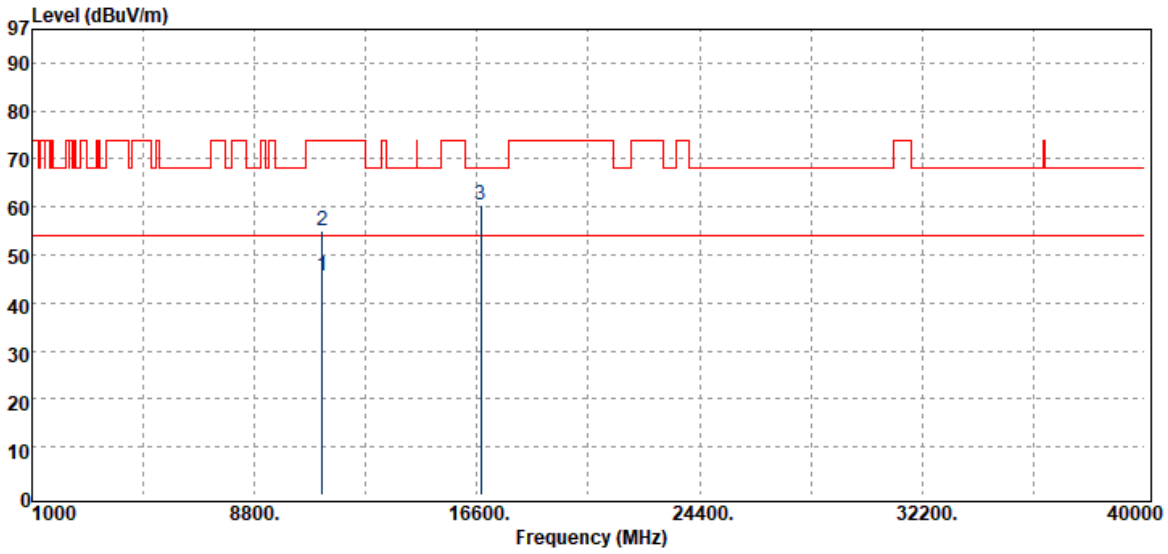
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Report Number :ER-2021-70041  
 Operation Mode :802.11a  
 Test Frequency :5580 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2021-08-12  
 Temp./Humi. :27.4/51  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky Chen



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
11160.00	Average	23.93	21.60	45.53	54.00	-8.47
11160.00	Peak	33.45	21.60	55.05	74.00	-18.95
16740.00	Peak	32.28	28.00	60.28	68.20	-7.92

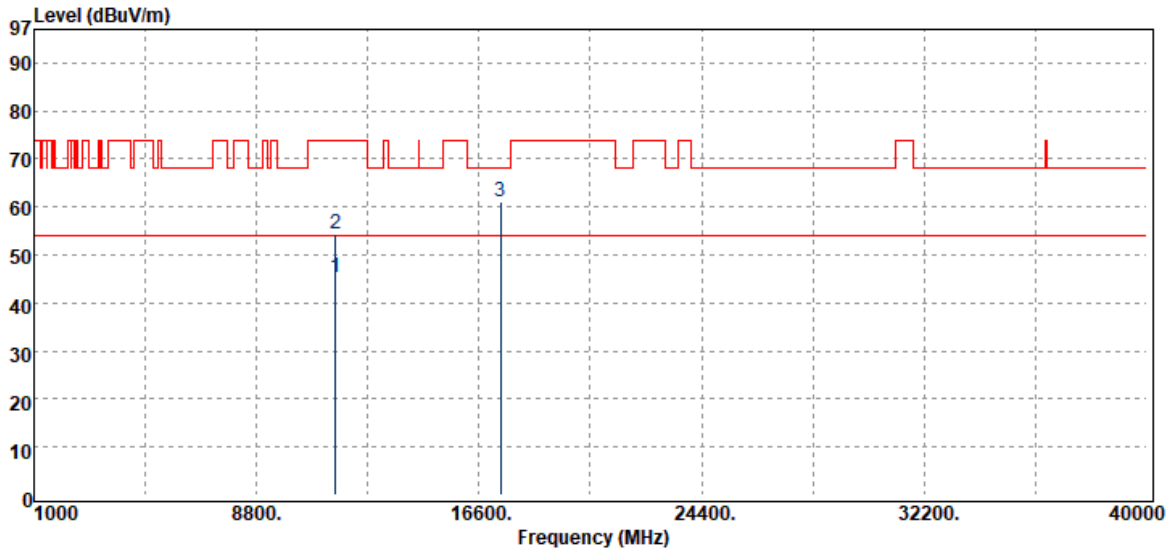
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Report Number :ER-2021-70041  
 Operation Mode :802.11a  
 Test Frequency :5785 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2021-08-12  
 Temp./Humi. :27.4/51  
 Antenna Pol. :VERTICAL  
 Engineer :Ricky Chen



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
11570.00	Average	23.59	21.84	45.43	54.00	-8.57
11570.00	Peak	32.64	21.84	54.48	74.00	-19.52
17355.00	Peak	31.85	29.11	60.96	68.20	-7.24

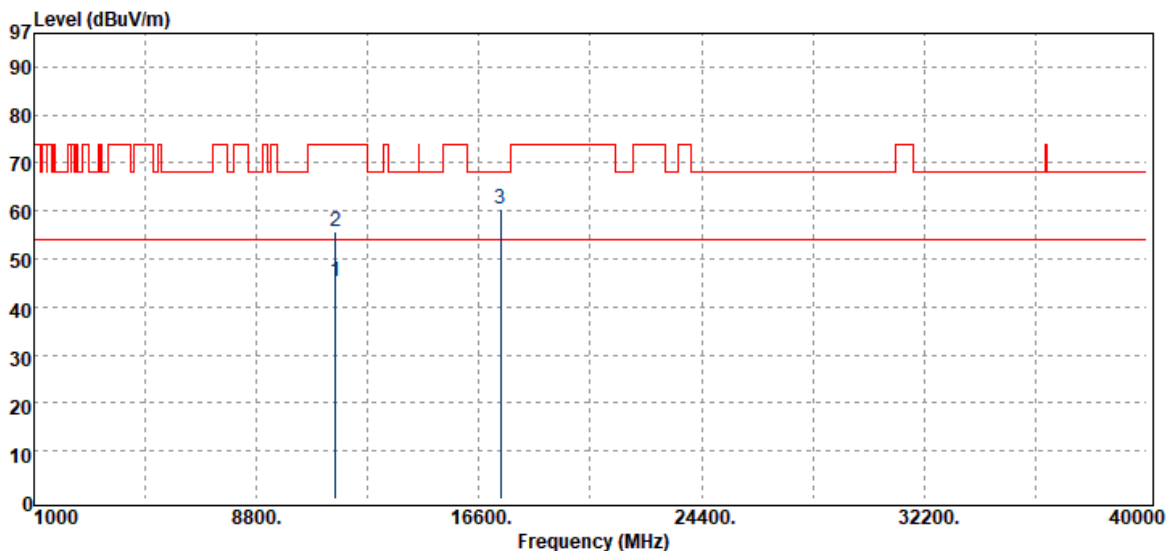
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Report Number :ER-2021-70041  
 Operation Mode :802.11a  
 Test Frequency :5785 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :NB Plane

Test Site :SAC 3  
 Test Date :2021-08-12  
 Temp./Humi. :27.4/51  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ricky Chen



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
11570.00	Average	23.56	21.84	45.40	54.00	-8.60
11570.00	Peak	33.74	21.84	55.58	74.00	-18.42
17355.00	Peak	31.38	29.11	60.49	68.20	-7.71

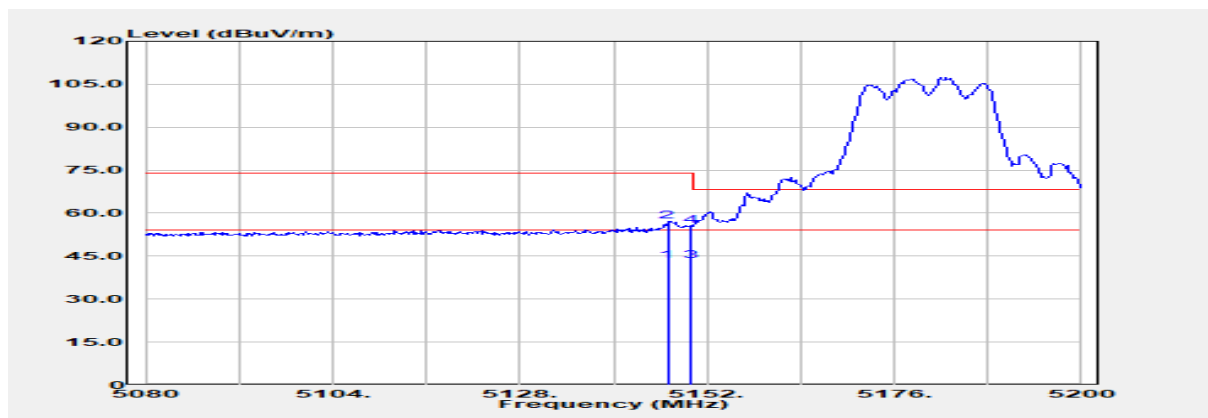
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### 7.8.2 Band edge falling to restricted band

Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11a / Band 1	Test Date	:2021-08-23
Test Frequency	:5180 MHz	Temp./Humi.	:22.5/58
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Enzo Chang



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
5146.923	Average	32.81	10.47	43.28	54.00	-10.72
5146.923	Peak	46.80	10.47	57.27	74.00	-16.73
5150.000	Average	32.91	10.50	43.41	54.00	-10.59
5150.000	Peak	45.10	10.50	55.60	74.00	-18.40

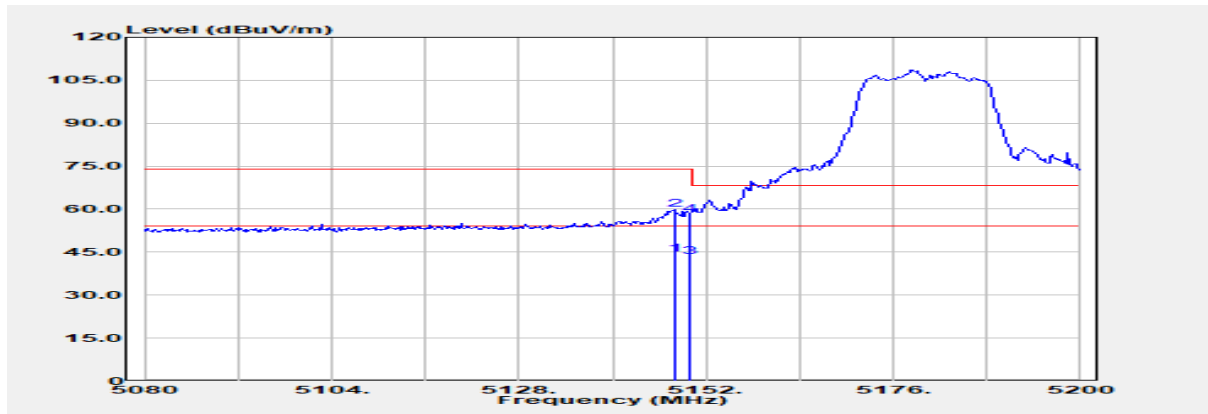
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Report Number :ER/2021/70041  
 Operation Mode :802.11a / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-23  
 Temp./Humi. :22.5/58  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5147.885	Average	33.69	10.48	44.17	54.00	-9.83
5147.885	Peak	49.25	10.48	59.73	74.00	-14.27
5150.000	Average	32.91	10.50	43.41	54.00	-10.59
5150.000	Peak	47.64	10.50	58.14	74.00	-15.86

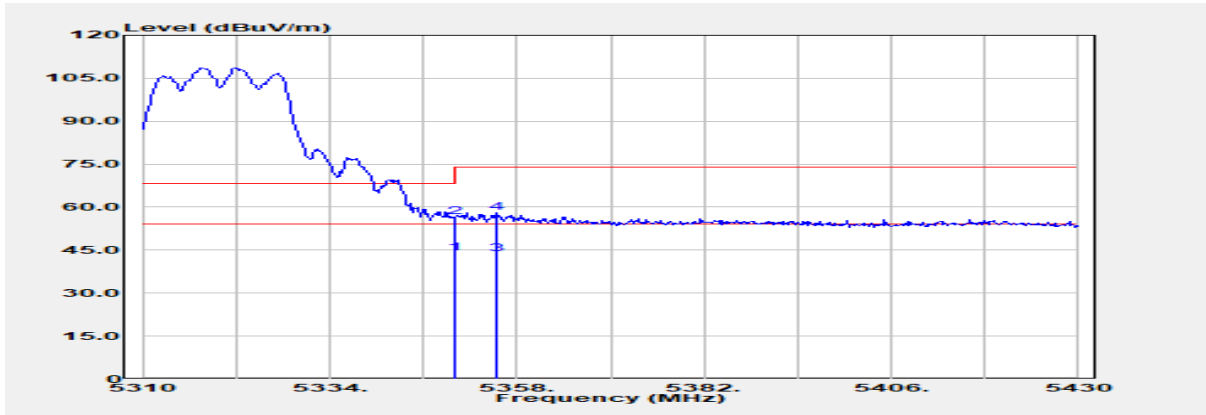
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Report Number :ER/2021/70041  
 Operation Mode :802.11a / Band 2  
 Test Frequency :5320 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-23  
 Temp./Humi. :22.5/58  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.000	Average	32.36	11.54	43.90	54.00	-10.10
5350.000	Peak	44.95	11.54	56.49	74.00	-17.51
5355.385	Average	32.11	11.59	43.70	54.00	-10.30
5355.385	Peak	46.47	11.59	58.06	74.00	-15.94

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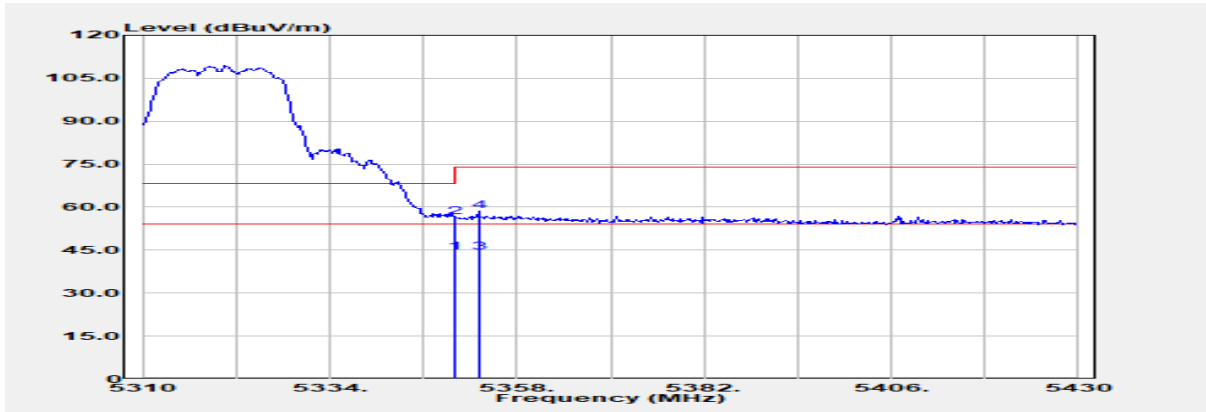
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Report Number :ER/2021/70041  
 Operation Mode :802.11a / Band 2  
 Test Frequency :5320 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-23  
 Temp./Humi. :22.5/58  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.000	Average	32.68	11.54	44.22	54.00	-9.78
5350.000	Peak	44.90	11.54	56.43	74.00	-17.57
5353.077	Average	32.59	11.57	44.16	54.00	-9.84
5353.077	Peak	47.07	11.57	58.64	74.00	-15.36

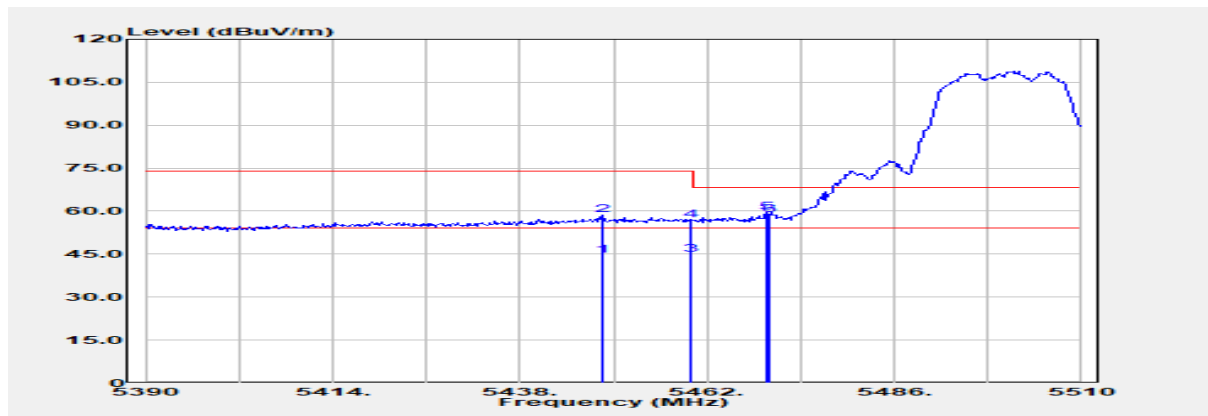
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Report Number :ER/2021/70041  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5500 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-23  
 Temp./Humi. :22.5/58  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5448.461	Average	32.27	12.15	44.42	54.00	-9.58
5448.461	Peak	46.40	12.15	58.56	74.00	-15.44
5460.000	Average	33.02	11.66	44.68	54.00	-9.32
5460.000	Peak	45.21	11.66	56.87	74.00	-17.13
5469.615	Peak	47.87	11.73	59.60	68.20	-8.60
5470.000	Peak	46.85	11.73	58.58	68.20	-9.62

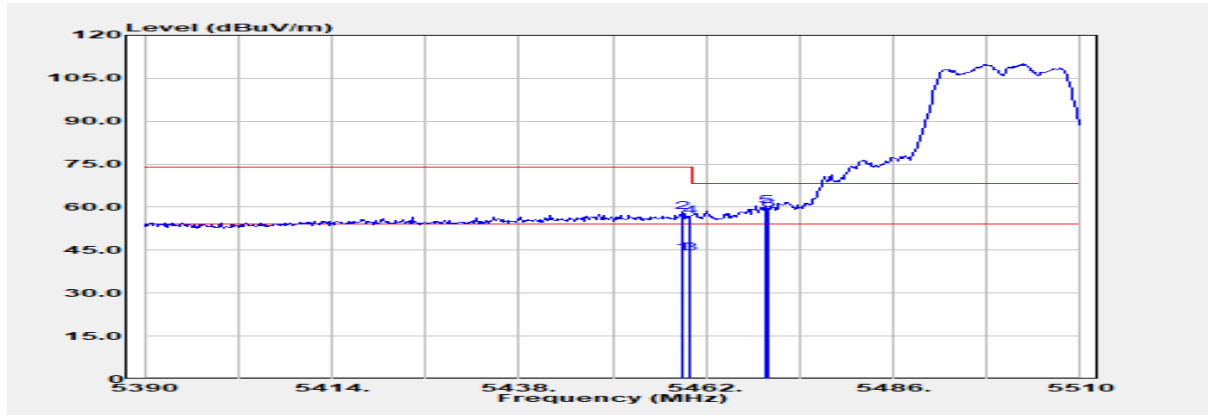
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Report Number :ER/2021/70041  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5500 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-23  
 Temp./Humi. :22.5/58  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5458.846	Average	32.26	11.72	43.98	54.00	-10.02
5458.846	Peak	46.72	11.72	58.45	74.00	-15.55
5460.000	Average	32.36	11.66	44.02	54.00	-9.98
5460.000	Peak	45.12	11.66	56.79	74.00	-17.21
5469.615	Peak	48.72	11.73	60.44	68.20	-7.76
5470.000	Peak	47.13	11.73	58.86	68.20	-9.34

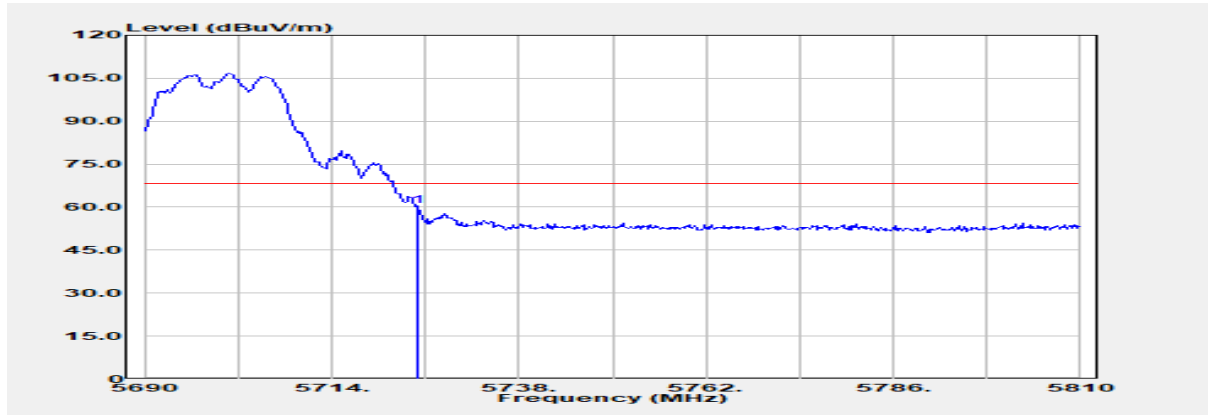
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Report Number :ER/2021/70041  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-23  
 Temp./Humi. :22.5/58  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



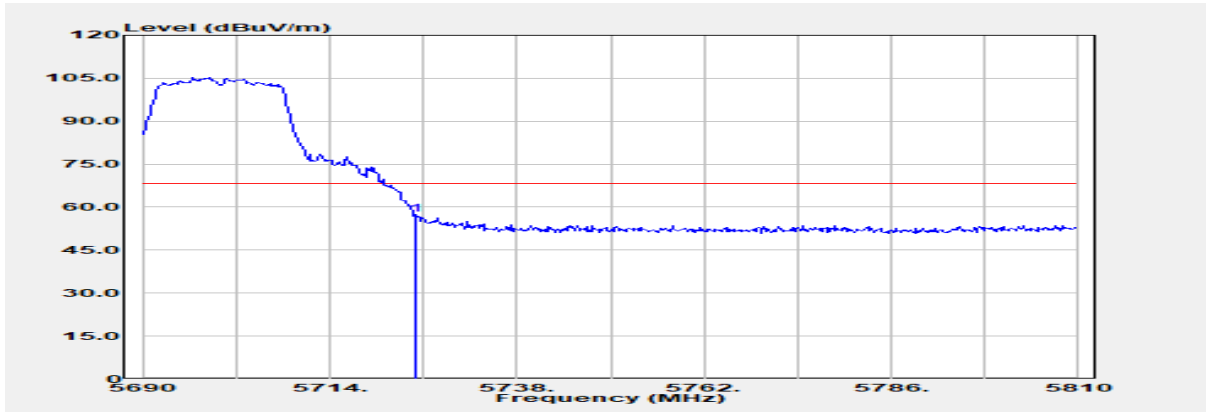
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5725.000	Peak	49.84	10.62	60.46	68.20	-7.74

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Report Number :ER/2021/70041  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-23  
 Temp./Humi. :22.5/58  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



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
5725.000	Peak	46.72	10.62	57.35	68.20	-10.85

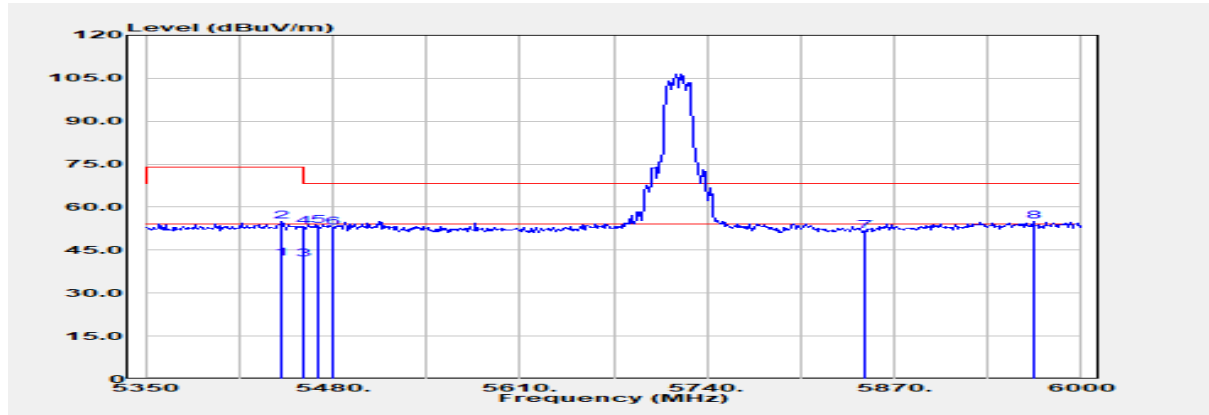
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Report Number :ER/2021/70041  
 Operation Mode :802.11a / Band 3-4  
 Test Frequency :5720 MHz  
 Test Mode :BE CH 144  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-23  
 Temp./Humi. :22.5/58  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5444.792	Average	30.06	12.07	42.13	54.00	-11.87
5444.792	Peak	43.01	12.07	55.08	74.00	-18.92
5460.000	Average	30.11	11.66	41.77	54.00	-12.23
5460.000	Peak	41.70	11.66	53.36	74.00	-20.64
5470.000	Peak	41.84	11.73	53.58	68.20	-14.62
5480.000	Peak	40.61	12.35	52.95	68.20	-15.25
5850.000	Peak	40.36	11.31	51.66	68.20	-16.54
5966.667	Peak	42.08	13.01	55.10	68.20	-13.10

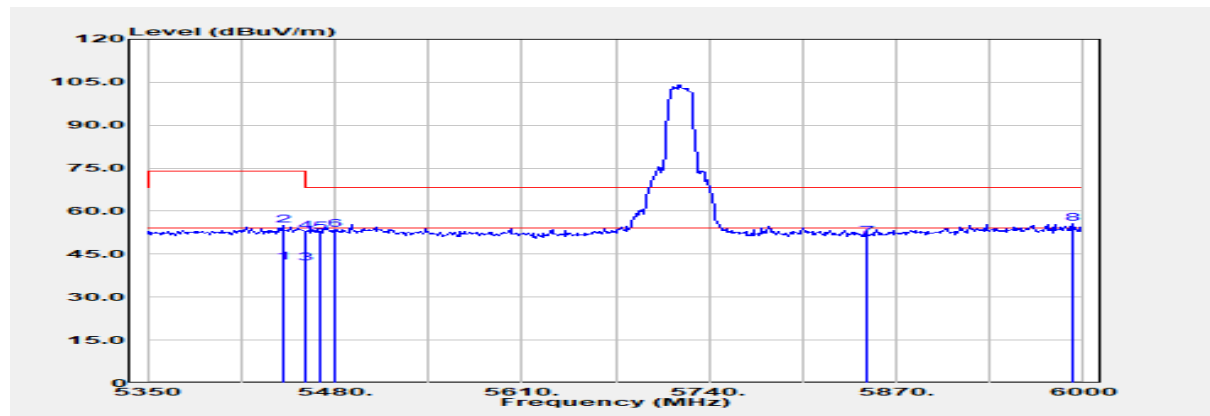
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Report Number :ER/2021/70041  
 Operation Mode :802.11a / Band 3-4  
 Test Frequency :5720 MHz  
 Test Mode :BE CH 144  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-23  
 Temp./Humi. :22.5/58  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5443.750	Average	30.06	12.05	42.11	54.00	-11.89
5443.750	Peak	43.03	12.05	55.08	74.00	-18.92
5460.000	Average	30.09	11.66	41.75	54.00	-12.25
5460.000	Peak	41.26	11.66	52.93	74.00	-21.07
5470.000	Peak	40.93	11.73	52.67	68.20	-15.53
5480.000	Peak	41.20	12.35	53.54	68.20	-14.66
5850.000	Peak	39.75	11.31	51.05	68.20	-17.15
5992.708	Peak	42.37	13.26	55.63	68.20	-12.57

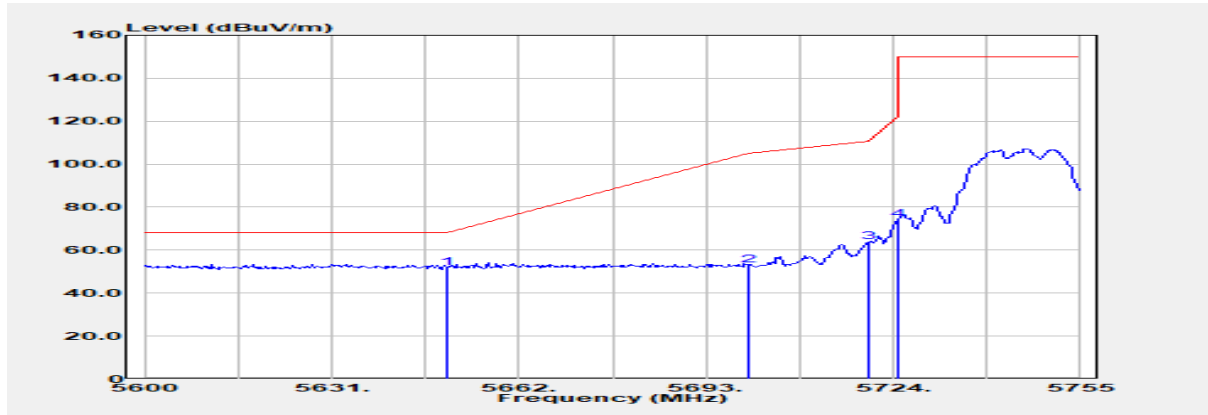
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Report Number :ER/2021/70041  
 Operation Mode :802.11a / Band 4  
 Test Frequency :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-23  
 Temp./Humi. :22.5/58  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.000	Peak	41.26	10.51	51.77	68.20	-16.43
5700.000	Peak	42.49	10.41	52.89	105.20	-52.31
5720.000	Peak	52.89	10.76	63.65	110.80	-47.15
5725.000	Peak	63.51	10.62	74.13	122.20	-48.07

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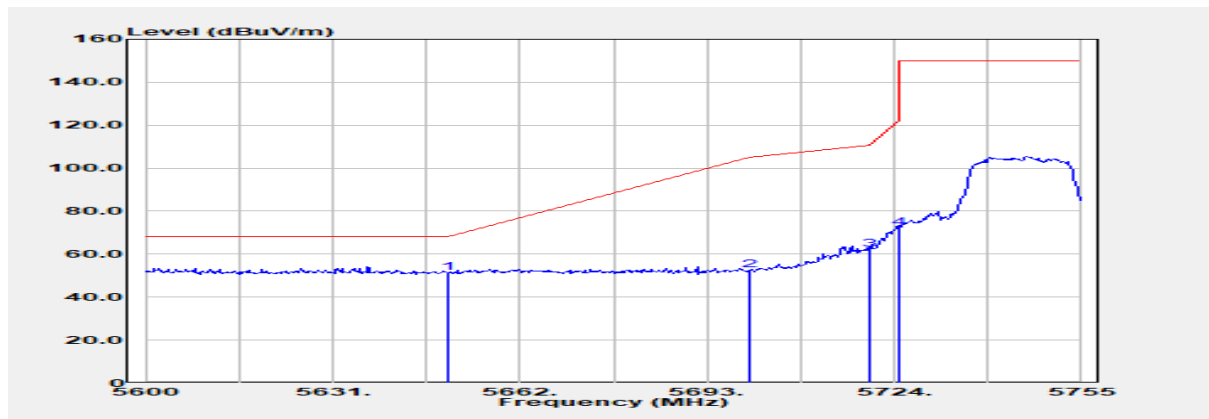
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Report Number :ER/2021/70041  
 Operation Mode :802.11a / Band 4  
 Test Frequency :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-23  
 Temp./Humi. :22.5/58  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.000	Peak	40.64	10.51	51.14	68.20	-17.06
5700.000	Peak	42.08	10.41	52.48	105.20	-52.72
5720.000	Peak	51.28	10.76	62.05	110.80	-48.75
5725.000	Peak	61.62	10.62	72.25	122.20	-49.95

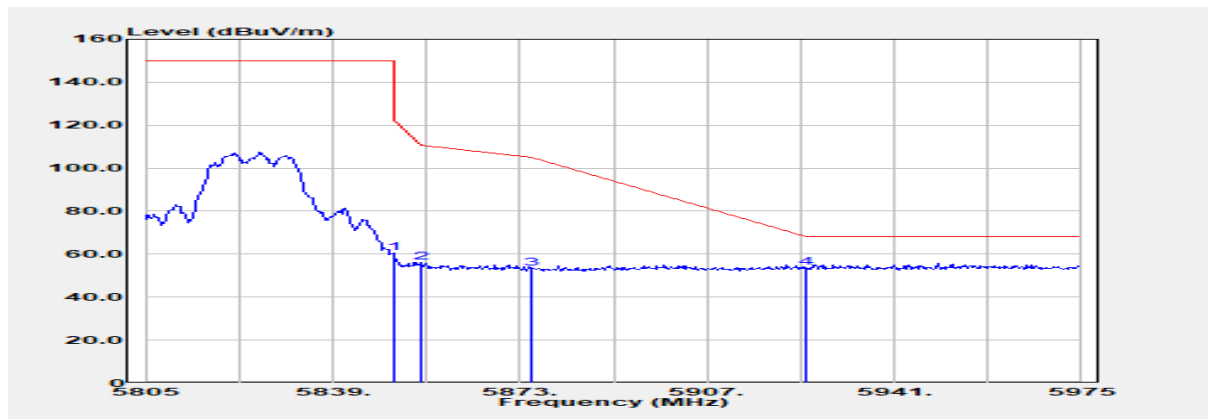
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Report Number :ER/2021/70041  
 Operation Mode :802.11a / Band 4  
 Test Frequency :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-23  
 Temp./Humi. :22.5/58  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	49.08	11.31	60.39	122.20	-61.81
5855.000	Peak	44.47	11.61	56.08	110.80	-54.72
5875.000	Peak	41.24	12.08	53.32	105.20	-51.88
5925.000	Peak	40.78	12.98	53.76	68.20	-14.44

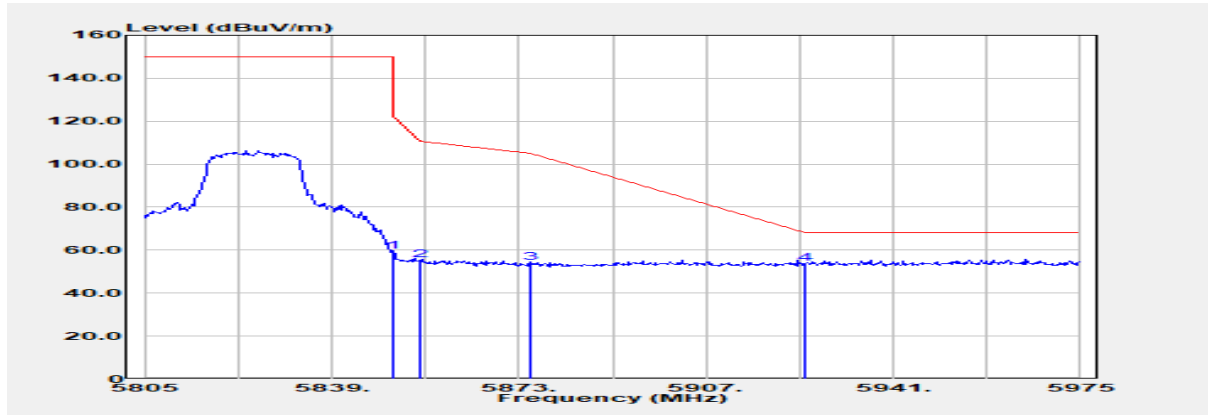
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Report Number :ER/2021/70041  
 Operation Mode :802.11a / Band 4  
 Test Frequency :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-23  
 Temp./Humi. :22.5/58  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5850.000	Peak	48.21	11.31	59.51	122.20	-62.69
5855.000	Peak	43.59	11.61	55.20	110.80	-55.60
5875.000	Peak	41.97	12.08	54.05	105.20	-51.15
5925.000	Peak	40.85	12.98	53.83	68.20	-14.37

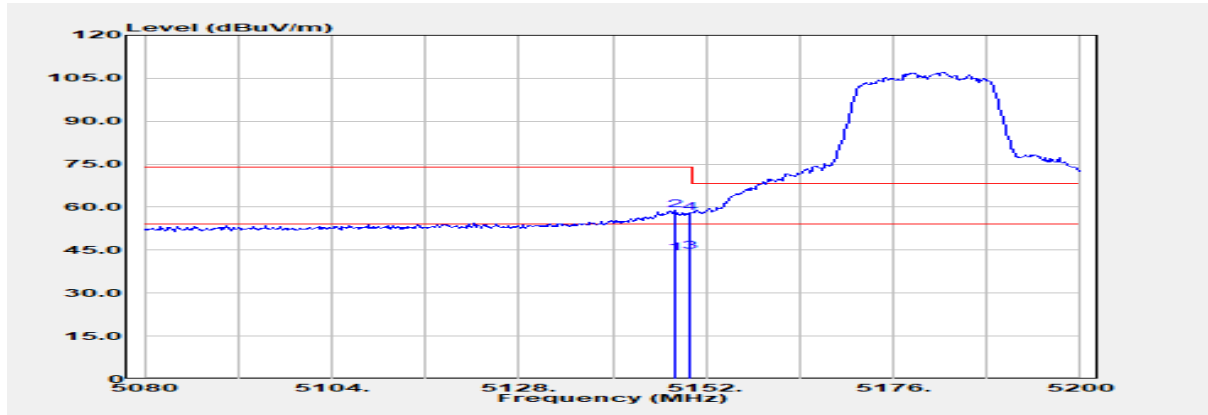
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Report Number :ER/2021/70041  
 Operation Mode :802.11n20 / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :22.6/57  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5147.885	Average	33.36	10.48	43.84	54.00	-10.16
5147.885	Peak	48.57	10.48	59.05	74.00	-14.95
5150.000	Average	34.13	10.50	44.63	54.00	-9.37
5150.000	Peak	47.50	10.50	58.00	74.00	-16.00

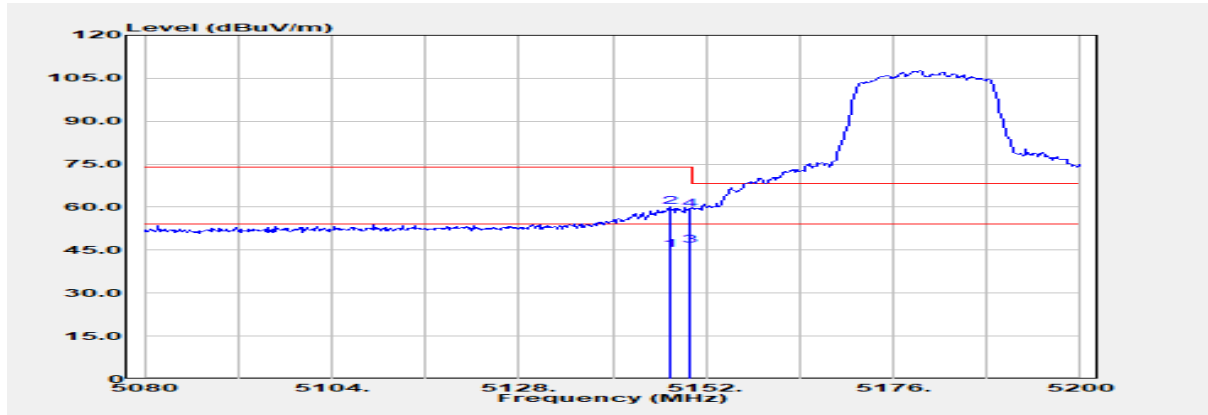
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Report Number :ER/2021/70041  
 Operation Mode :802.11n20 / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :22.6/57  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



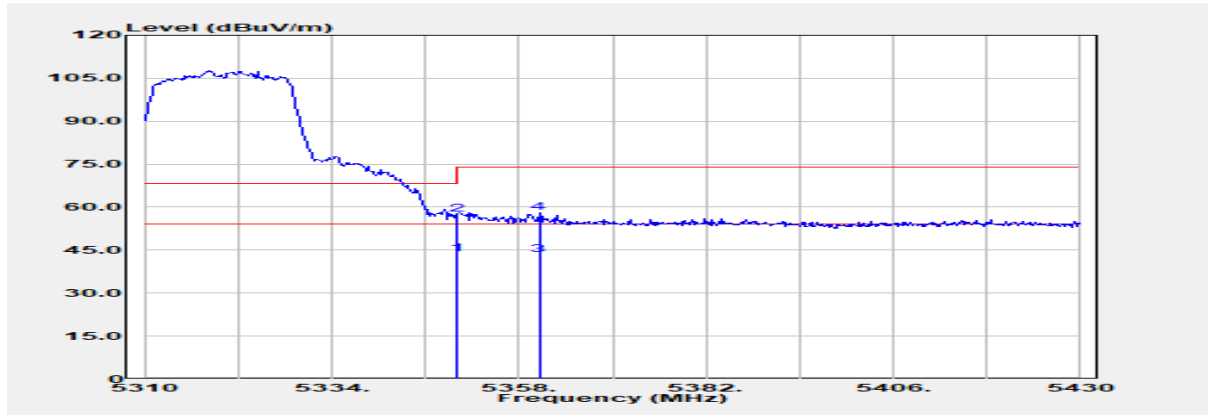
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5147.308	Average	34.76	10.48	45.24	54.00	-8.76
5147.308	Peak	49.59	10.48	60.07	74.00	-13.93
5150.000	Average	36.14	10.50	46.64	54.00	-7.36
5150.000	Peak	48.71	10.50	59.21	74.00	-14.79

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11n20 / Band 2	Test Date	:2021-08-24
Test Frequency	:5320 MHz	Temp./Humi.	:22.6/57
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Enzo Chang



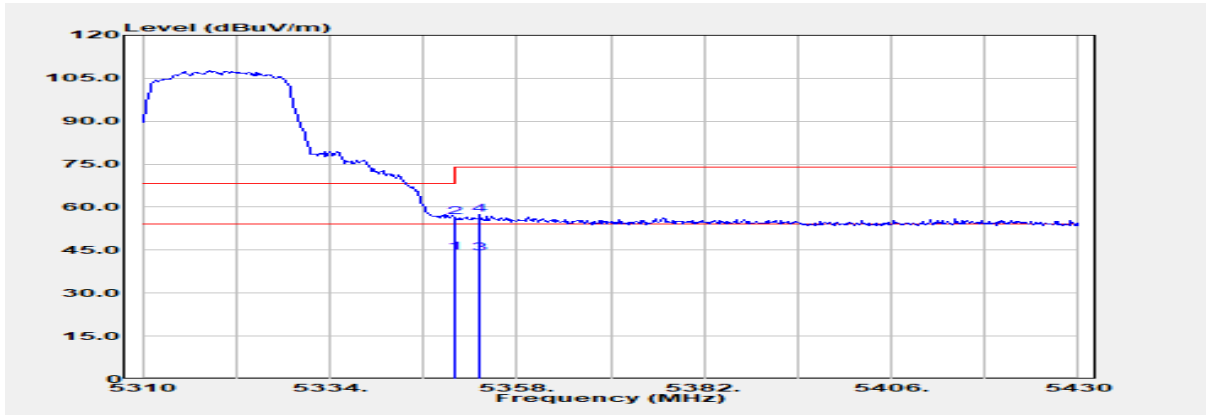
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.000	Average	32.08	11.54	43.62	54.00	-10.38
5350.000	Peak	45.95	11.54	57.48	74.00	-16.52
5360.577	Average	31.61	11.60	43.21	54.00	-10.79
5360.577	Peak	46.42	11.60	58.03	74.00	-15.97

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11n20 / Band 2	Test Date	:2021-08-24
Test Frequency	:5320 MHz	Temp./Humi.	:22.6/57
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.000	Average	32.61	11.54	44.15	54.00	-9.85
5350.000	Peak	45.03	11.54	56.57	74.00	-17.43
5353.269	Average	32.33	11.57	43.90	54.00	-10.10
5353.269	Peak	45.83	11.57	57.40	74.00	-16.60

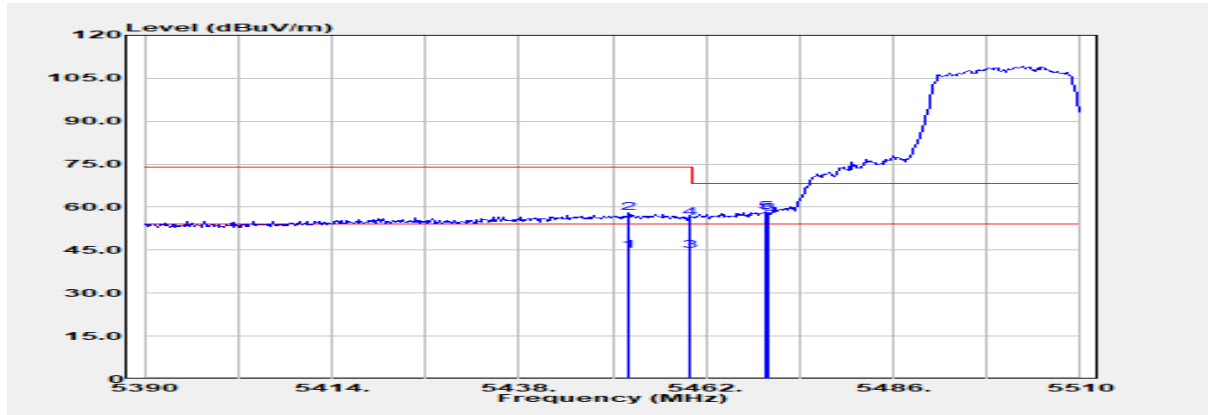
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Report Number :ER/2021/70041  
 Operation Mode :802.11n20 / Band 3  
 Test Frequency :5500 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :22.6/57  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5452.115	Average	32.73	12.08	44.81	54.00	-9.19
5452.115	Peak	45.99	12.08	58.07	74.00	-15.93
5460.000	Average	33.02	11.66	44.68	54.00	-9.32
5460.000	Peak	44.52	11.66	56.18	74.00	-17.82
5469.615	Peak	46.72	11.73	58.45	68.20	-9.75
5470.000	Peak	45.99	11.73	57.72	68.20	-10.48

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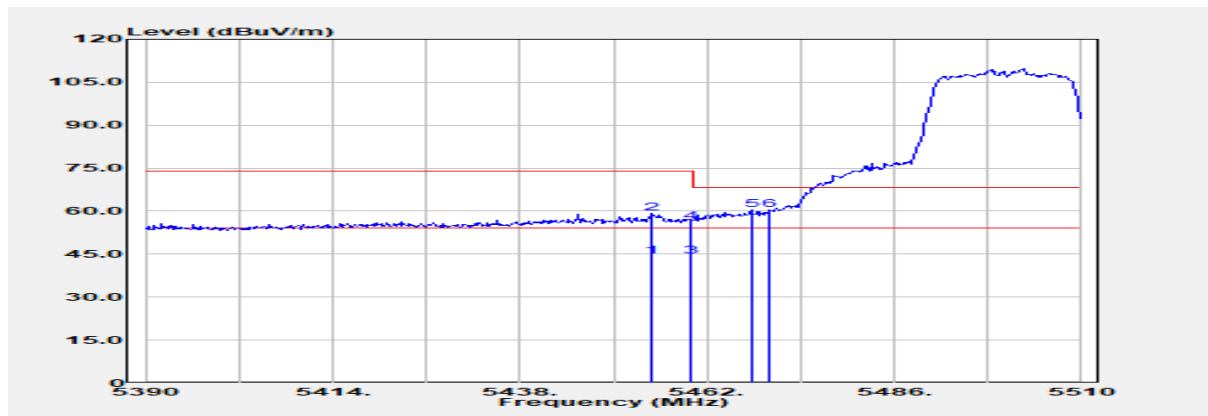
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Report Number :ER/2021/70041  
 Operation Mode :802.11n20 / Band 3  
 Test Frequency :5500 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :22.6/57  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5455.000	Average	32.23	11.93	44.16	54.00	-9.84
5455.000	Peak	47.39	11.93	59.32	74.00	-14.68
5460.000	Average	32.41	11.66	44.07	54.00	-9.93
5460.000	Peak	44.64	11.66	56.31	74.00	-17.69
5467.692	Peak	48.77	11.72	60.48	68.20	-7.72
5470.000	Peak	48.71	11.73	60.44	68.20	-7.76

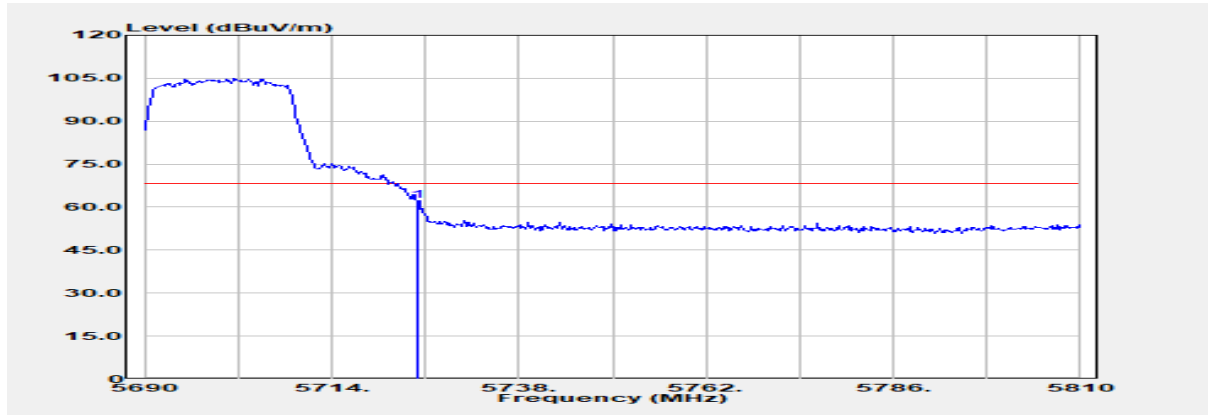
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Report Number :ER/2021/70041  
 Operation Mode :802.11n20 / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :22.6/57  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



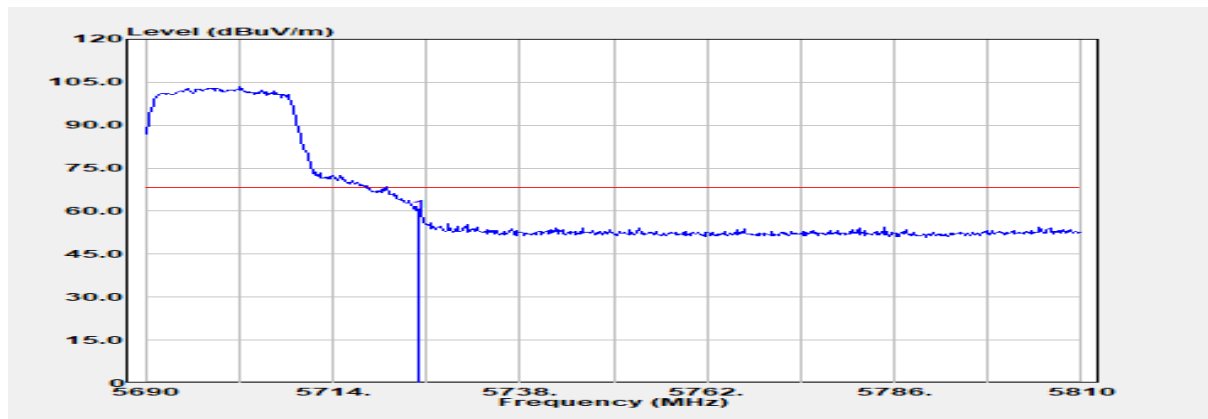
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	51.53	10.62	62.15	68.20	-6.05

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11n20 / Band 3	Test Date	:2021-08-24
Test Frequency	:5700 MHz	Temp./Humi.	:22.6/57
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Enzo Chang



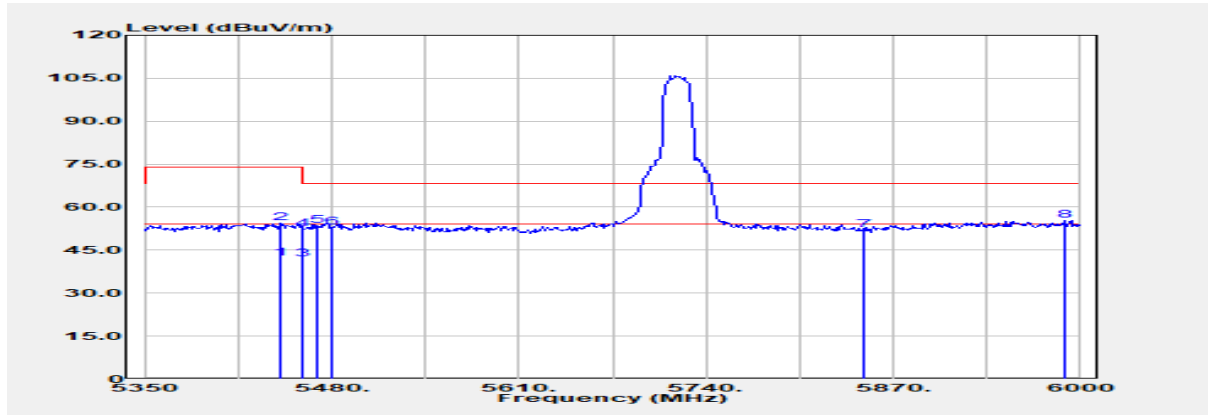
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	49.67	10.62	60.29	68.20	-7.91

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11n20 / Band 3-4	Test Date	:2021-08-24
Test Frequency	:5720 MHz	Temp./Humi.	:22.6/57
Test Mode	:BE CH 144	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5443.750	Average	30.08	12.05	42.13	54.00	-11.87
5443.750	Peak	42.42	12.05	54.47	74.00	-19.53
5460.000	Average	30.09	11.66	41.75	54.00	-12.25
5460.000	Peak	40.80	11.66	52.46	74.00	-21.54
5470.000	Peak	41.76	11.73	53.50	68.20	-14.70
5480.000	Peak	40.66	12.35	53.00	68.20	-15.20
5850.000	Peak	40.58	11.31	51.89	68.20	-16.31
5988.542	Peak	41.97	13.41	55.39	68.20	-12.81

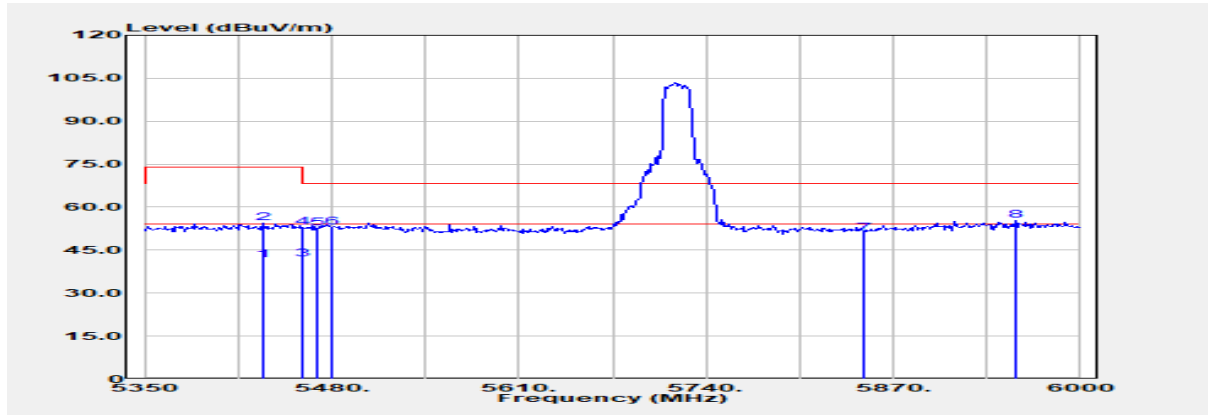
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Report Number :ER/2021/70041  
 Operation Mode :802.11n20 / Band 3-4  
 Test Frequency :5720 MHz  
 Test Mode :BE CH 144  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :22.6/57  
 Antenna Pol. :Horizontal  
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5432.292	Average	30.02	11.61	41.63	54.00	-12.37
5432.292	Peak	42.73	11.61	54.34	74.00	-19.66
5460.000	Average	30.10	11.66	41.76	54.00	-12.24
5460.000	Peak	41.15	11.66	52.81	74.00	-21.19
5470.000	Peak	41.02	11.73	52.75	68.20	-15.45
5480.000	Peak	40.55	12.35	52.90	68.20	-15.30
5850.000	Peak	39.55	11.31	50.86	68.20	-17.34
5955.208	Peak	42.01	13.23	55.25	68.20	-12.95

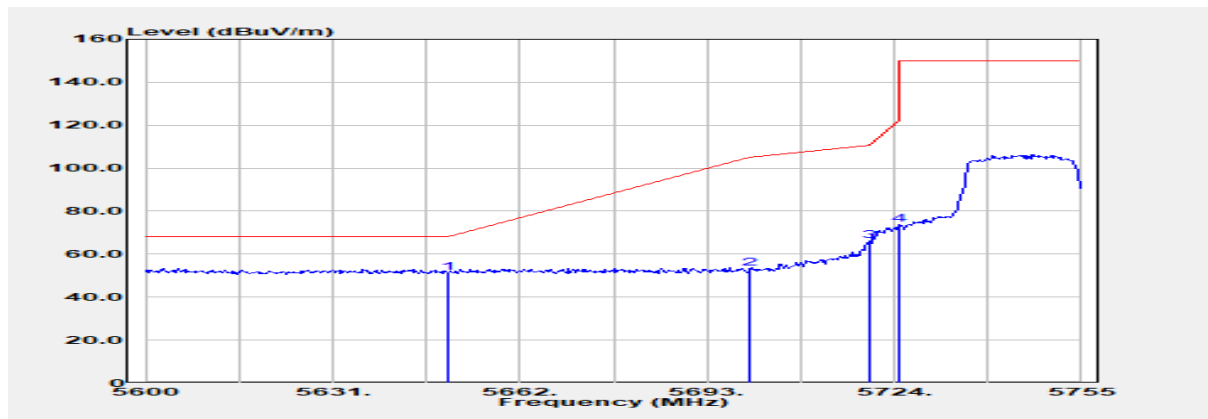
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Report Number :ER/2021/70041  
 Operation Mode :802.11n20 / Band 4  
 Test Frequency :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :22.6/57  
 Antenna Pol. :Vertical  
 Engineer :Enzo Chang



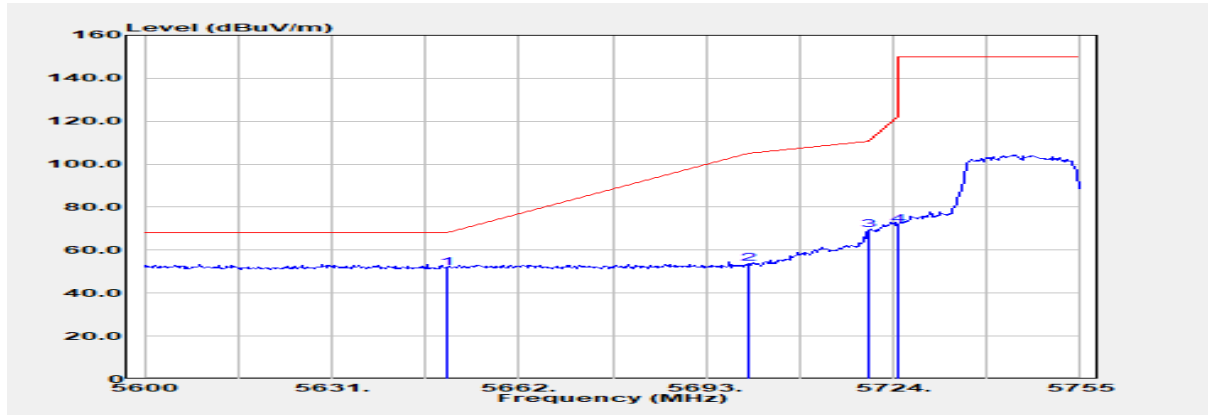
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.000	Peak	40.79	10.51	51.30	68.20	-16.90
5700.000	Peak	42.89	10.41	53.29	105.20	-51.91
5720.000	Peak	55.47	10.76	66.23	110.80	-44.57
5725.000	Peak	63.04	10.62	73.66	122.20	-48.54

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11n20 / Band 4	Test Date	:2021-08-24
Test Frequency	:5745 MHz	Temp./Humi.	:22.6/57
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Enzo Chang



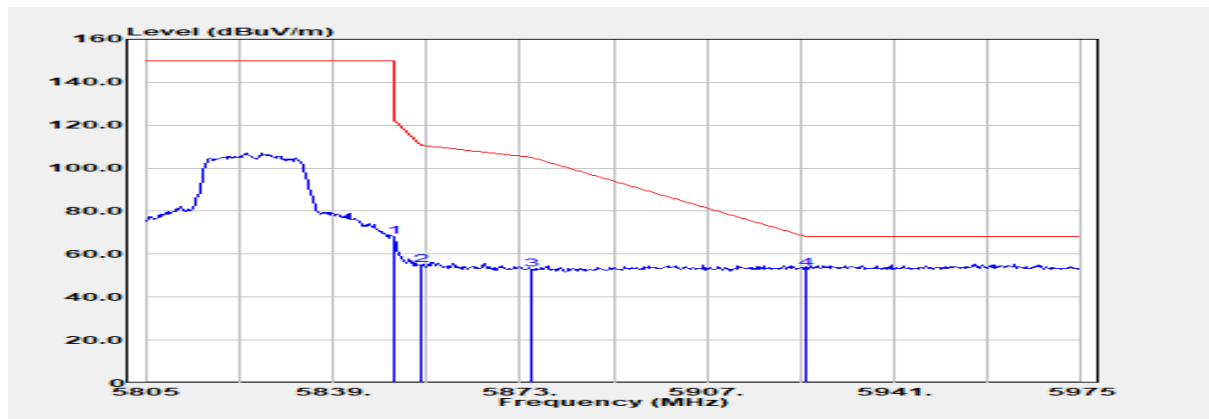
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.000	Peak	41.24	10.51	51.75	68.20	-16.45
5700.000	Peak	43.20	10.41	53.60	105.20	-51.60
5720.000	Peak	58.57	10.76	69.33	110.80	-41.47
5725.000	Peak	61.08	10.62	71.70	122.20	-50.50

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11n20 / Band 4	Test Date	:2021-08-24
Test Frequency	:5825 MHz	Temp./Humi.	:22.6/57
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5850.000	Peak	57.02	11.31	68.33	122.20	-53.87
5855.000	Peak	43.44	11.61	55.05	110.80	-55.75
5875.000	Peak	40.87	12.08	52.95	105.20	-52.25
5925.000	Peak	40.25	12.98	53.24	68.20	-14.96

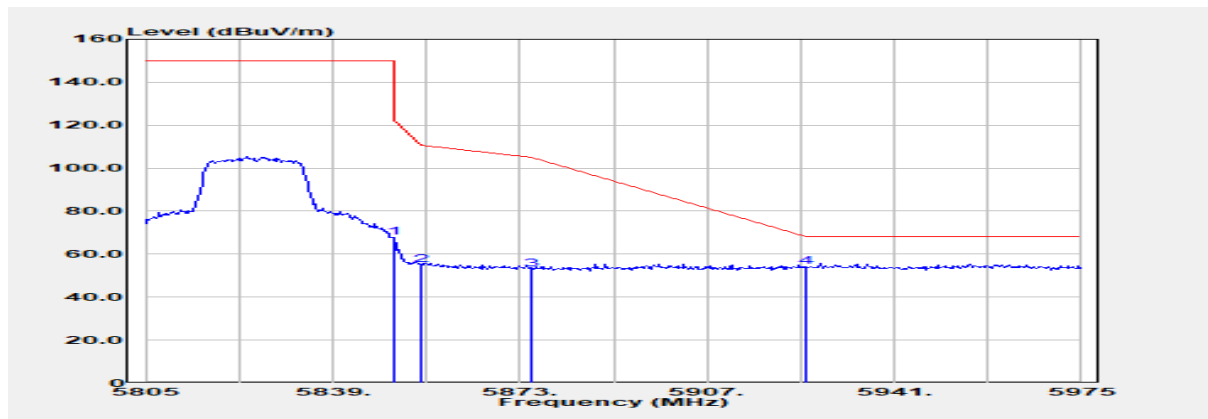
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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11n20 / Band 4	Test Date	:2021-08-24
Test Frequency	:5825 MHz	Temp./Humi.	:22.6/57
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Enzo Chang



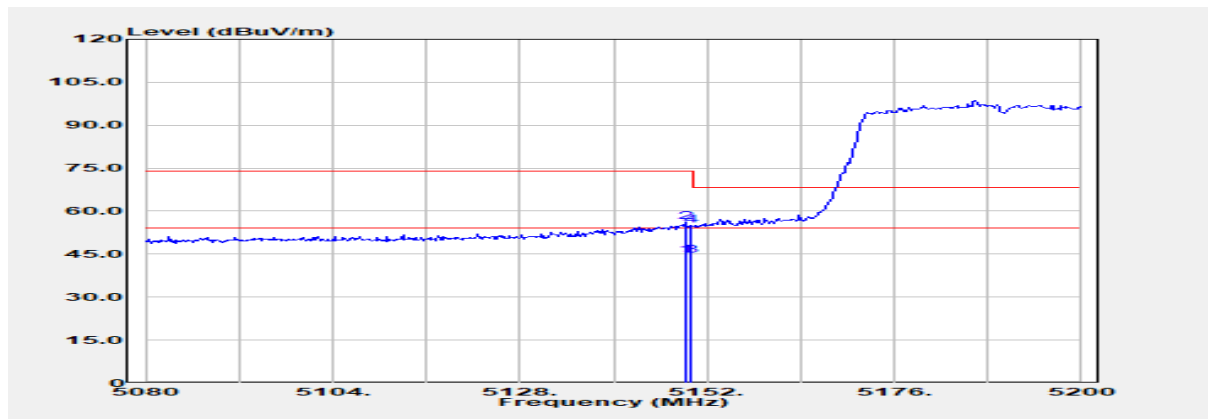
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.000	Peak	56.61	11.31	67.92	122.20	-54.28
5855.000	Peak	43.27	11.61	54.88	110.80	-55.92
5875.000	Peak	40.74	12.08	52.82	105.20	-52.38
5925.000	Peak	40.98	12.98	53.96	68.20	-14.24

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11n40 / Band 1	Test Date	:2021-08-24
Test Frequency	:5190 MHz	Temp./Humi.	:24.1/55
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5149.231	Average	34.00	10.49	44.49	54.00	-9.51
5149.231	Peak	45.64	10.49	56.14	74.00	-17.86
5150.000	Average	34.16	10.50	44.66	54.00	-9.34
5150.000	Peak	44.65	10.50	55.14	74.00	-18.86

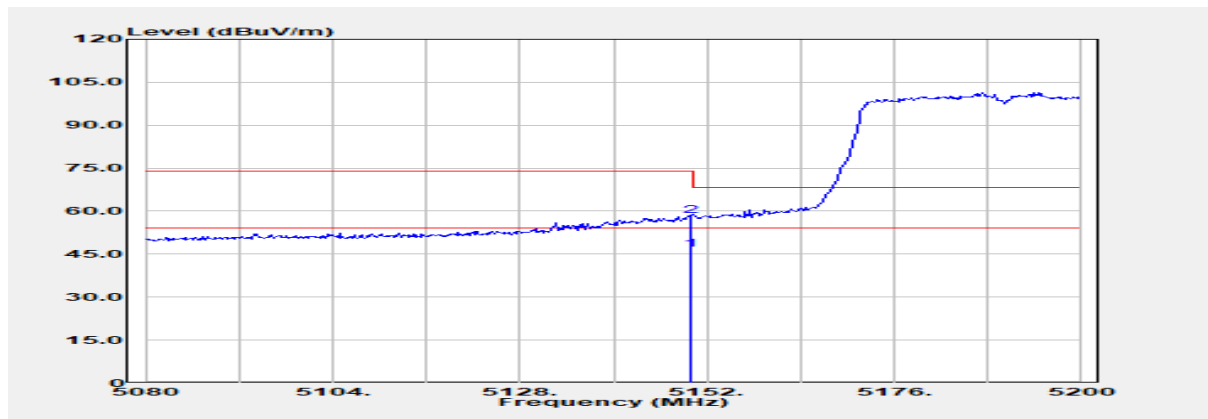
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Report Number :ER/2021/70041  
 Operation Mode :802.11n40 / Band 1  
 Test Frequency :5190 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :24.1/55  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



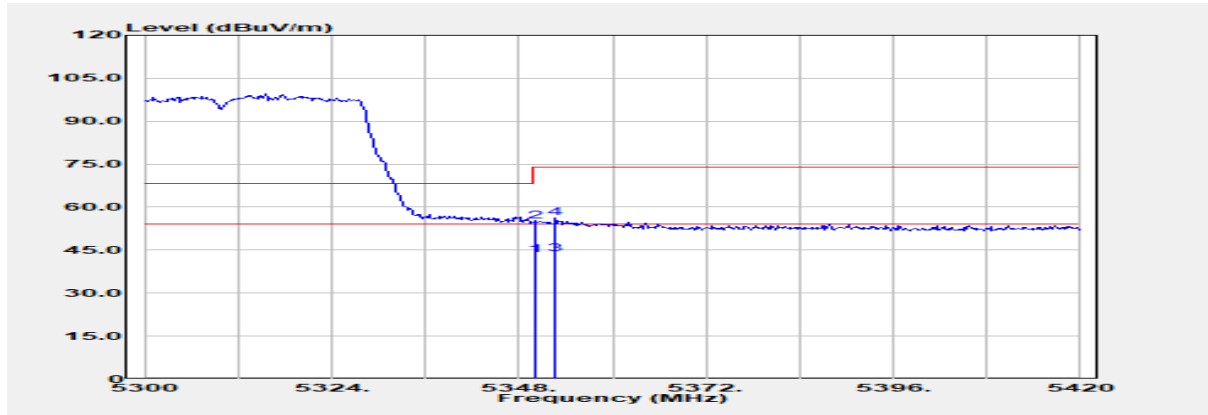
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.000	Average	36.08	10.50	46.58	54.00	-7.42
5150.000	Peak	47.87	10.50	58.36	74.00	-15.64

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11n40 / Band 2	Test Date	:2021-08-24
Test Frequency	:5310 MHz	Temp./Humi.	:24.1/55
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.000	Average	31.79	11.54	43.33	54.00	-10.67
5350.000	Peak	43.48	11.54	55.02	74.00	-18.98
5352.692	Average	32.16	11.56	43.72	54.00	-10.28
5352.692	Peak	44.68	11.56	56.24	74.00	-17.76

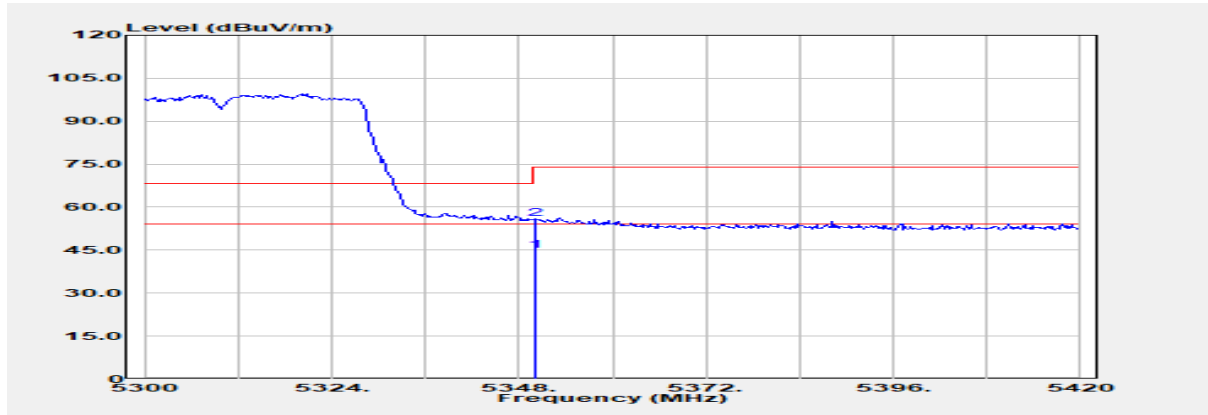
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Report Number :ER/2021/70041  
 Operation Mode :802.11n40 / Band 2  
 Test Frequency :5310 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :24.1/55  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.000	Average	33.20	11.54	44.74	54.00	-9.26
5350.000	Peak	44.34	11.54	55.88	74.00	-18.12

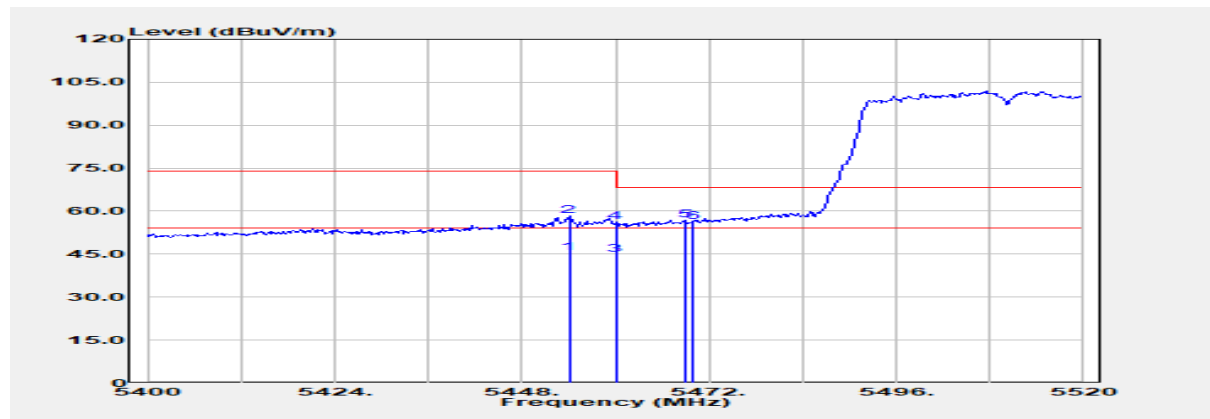
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Report Number :ER/2021/70041  
 Operation Mode :802.11n40 / Band 3  
 Test Frequency :5510 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :24.1/55  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5454.039	Average	33.37	11.98	45.35	54.00	-8.65
5454.039	Peak	46.27	11.98	58.25	74.00	-15.75
5460.000	Average	33.28	11.66	44.94	54.00	-9.06
5460.000	Peak	44.43	11.66	56.09	74.00	-17.91
5469.039	Peak	45.16	11.73	56.88	68.20	-11.32
5470.000	Peak	44.58	11.73	56.31	68.20	-11.89

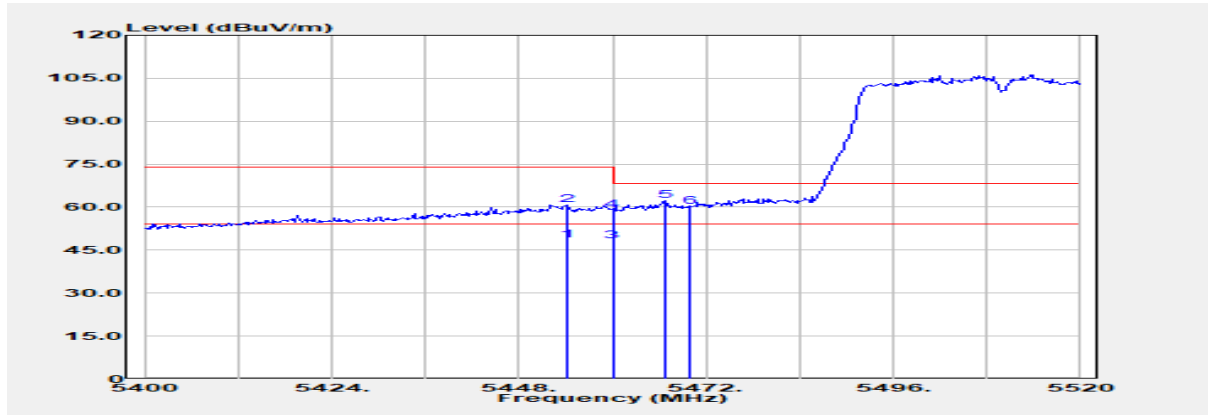
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Report Number :ER/2021/70041  
 Operation Mode :802.11n40 / Band 3  
 Test Frequency :5510 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :24.1/55  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5454.231	Average	36.48	11.97	48.45	54.00	-5.55
5454.231	Peak	48.89	11.97	60.85	74.00	-13.15
5460.000	Average	36.48	11.66	48.14	54.00	-5.86
5460.000	Peak	47.15	11.66	58.81	74.00	-15.19
5466.731	Peak	50.56	11.71	62.27	68.20	-5.93
5470.000	Peak	48.55	11.73	60.28	68.20	-7.92

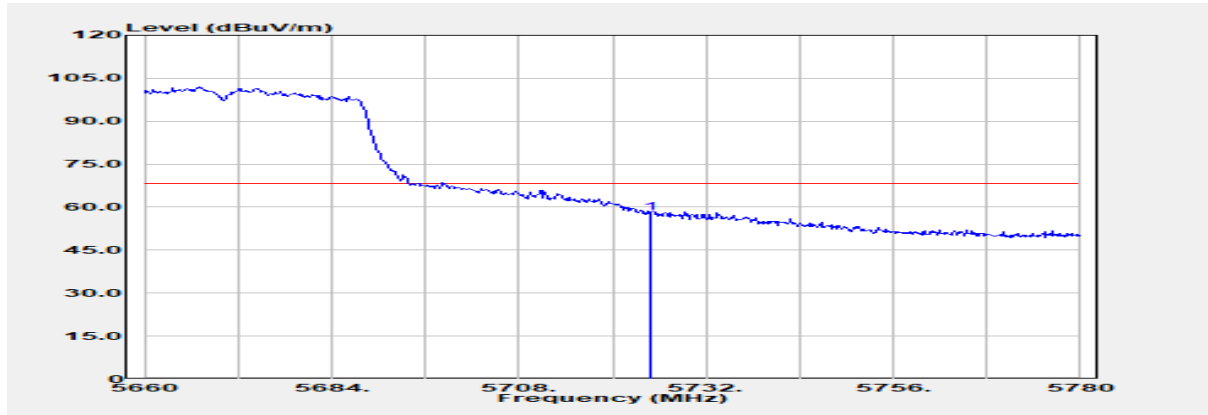
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Report Number :ER/2021/70041  
 Operation Mode :802.11n40 / Band 3  
 Test Frequency :5670 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :24.1/55  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5725.000	Peak	47.33	10.62	57.95	68.20	-10.25

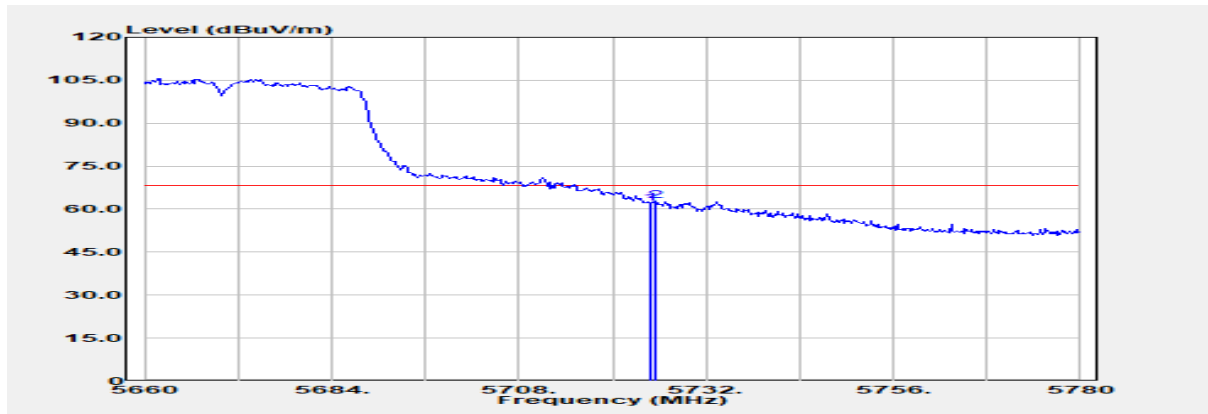
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Report Number :ER/2021/70041  
 Operation Mode :802.11n40 / Band 3  
 Test Frequency :5670 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :24.1/55  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



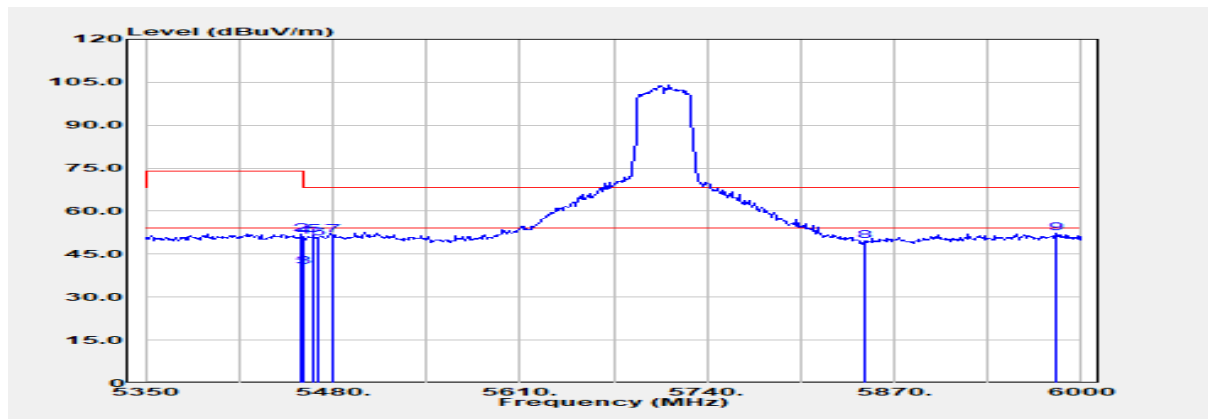
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5725.000	Peak	51.40	10.62	62.02	68.20	-6.18
5725.385	Peak	52.34	10.61	62.95	68.20	-5.25

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11n40 / Band 3-4	Test Date	:2021-08-24
Test Frequency	:5710 MHz	Temp./Humi.	:24.1/55
Test Mode	:BE CH 142	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



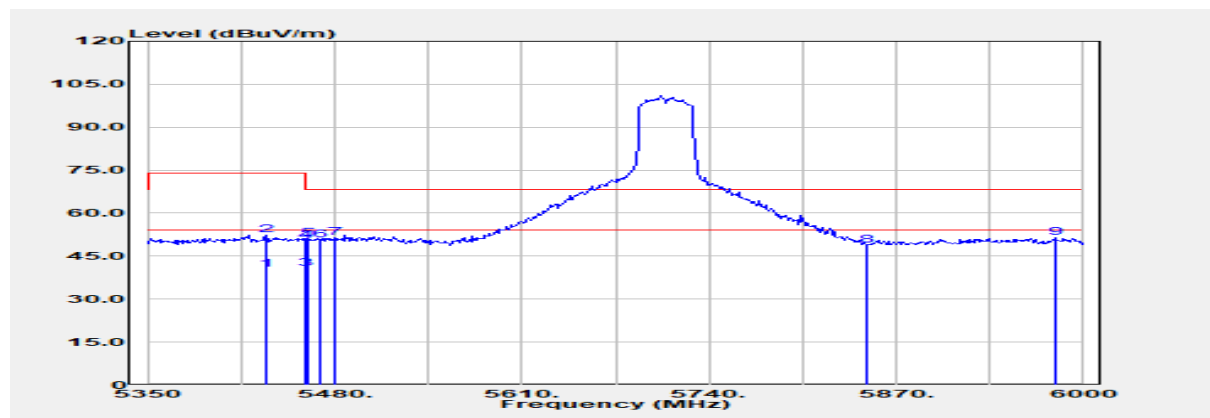
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5458.333	Average	28.59	11.75	40.34	54.00	-13.66
5458.333	Peak	40.34	11.75	52.09	74.00	-21.91
5460.000	Average	28.90	11.66	40.56	54.00	-13.44
5460.000	Peak	39.33	11.66	51.00	74.00	-23.00
5466.667	Peak	39.98	11.71	51.69	68.20	-16.51
5470.000	Peak	38.92	11.73	50.65	68.20	-17.55
5480.000	Peak	39.29	12.35	51.63	68.20	-16.57
5850.000	Peak	38.24	11.31	49.54	68.20	-18.66
5982.292	Peak	39.12	13.24	52.36	68.20	-15.84

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11n40 / Band 3-4	Test Date	:2021-08-24
Test Frequency	:5710 MHz	Temp./Humi.	:24.1/55
Test Mode	:BE CH 142	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5432.292	Average	28.63	11.61	40.24	54.00	-13.76
5432.292	Peak	40.67	11.61	52.28	74.00	-21.72
5460.000	Average	28.96	11.66	40.62	54.00	-13.38
5460.000	Peak	38.66	11.66	50.33	74.00	-23.67
5461.458	Peak	39.41	11.67	51.09	68.20	-17.11
5470.000	Peak	38.73	11.73	50.47	68.20	-17.73
5480.000	Peak	39.21	12.35	51.55	68.20	-16.65
5850.000	Peak	37.26	11.31	48.57	68.20	-19.63
5980.208	Peak	38.19	13.18	51.37	68.20	-16.83

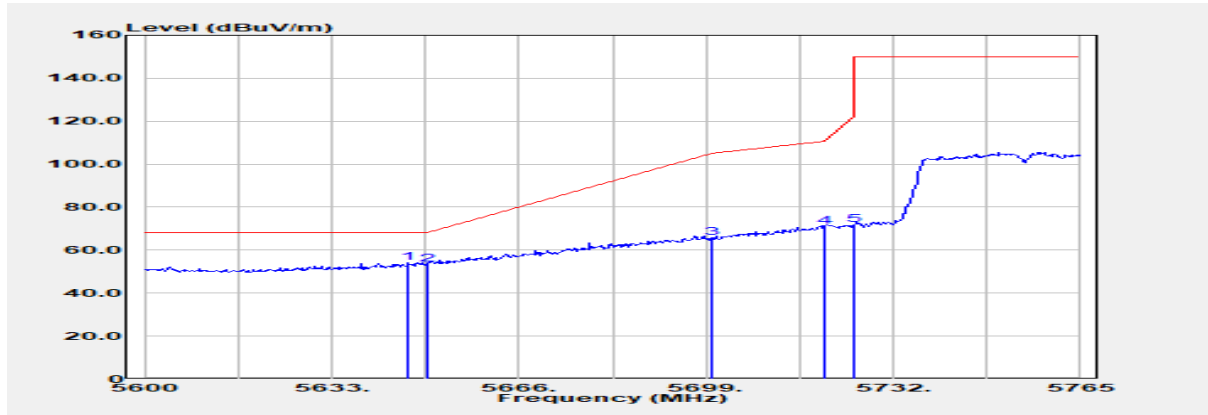
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Report Number :ER/2021/70041  
 Operation Mode :802.11n40 / Band 4  
 Test Frequency :5755 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :24.1/55  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



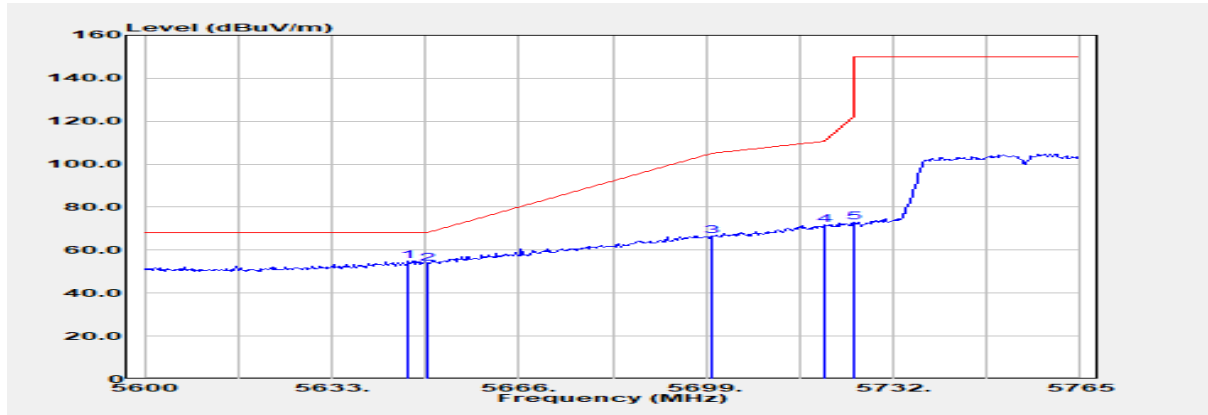
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5646.539	Peak	43.55	10.56	54.12	68.20	-14.08
5650.000	Peak	43.02	10.51	53.53	68.20	-14.67
5700.000	Peak	55.34	10.41	65.74	105.20	-39.46
5720.000	Peak	60.13	10.76	70.89	110.80	-39.91
5725.000	Peak	61.35	10.62	71.97	122.20	-50.23

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11n40 / Band 4	Test Date	:2021-08-24
Test Frequency	:5755 MHz	Temp./Humi.	:24.1/55
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5646.539	Peak	44.29	10.56	54.85	68.20	-13.35
5650.000	Peak	43.40	10.51	53.91	68.20	-14.29
5700.000	Peak	55.97	10.41	66.37	105.20	-38.83
5720.000	Peak	60.98	10.76	71.74	110.80	-39.06
5725.000	Peak	62.33	10.62	72.95	122.20	-49.25

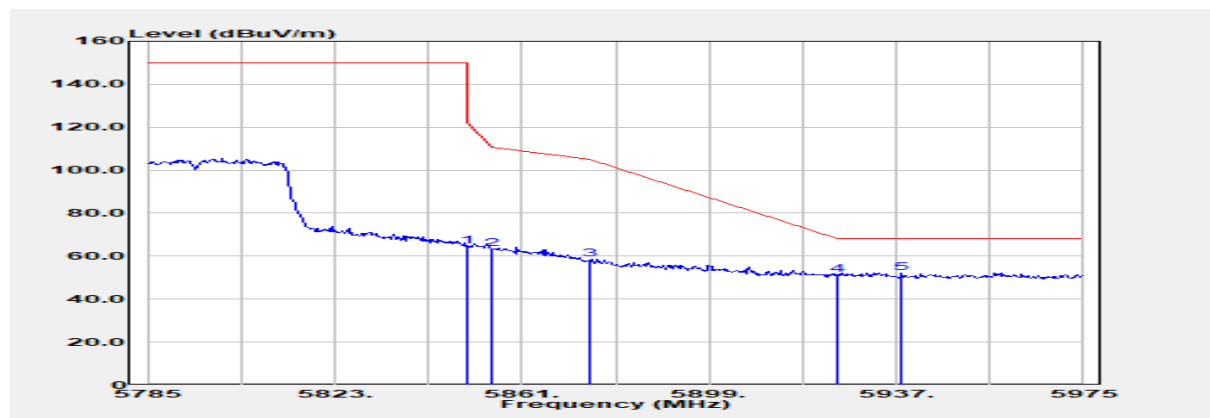
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Report Number :ER/2021/70041  
 Operation Mode :802.11n40 / Band 4  
 Test Frequency :5795 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :24.1/55  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



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
5850.000	Peak	53.31	11.31	64.62	122.20	-57.58
5855.000	Peak	51.68	11.61	63.28	110.80	-47.52
5875.000	Peak	46.28	12.08	58.36	105.20	-46.84
5925.000	Peak	38.37	12.98	51.35	68.20	-16.85
5938.157	Peak	39.28	12.79	52.08	68.20	-16.12

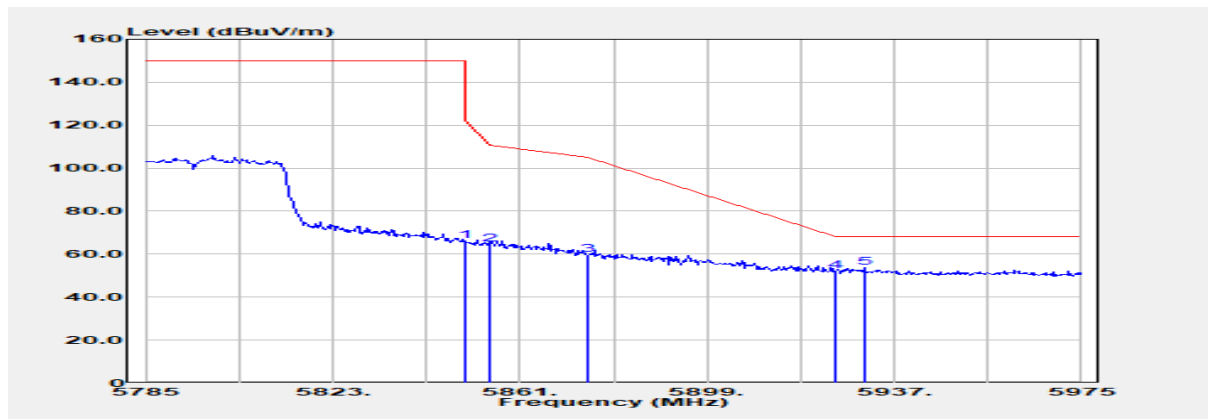
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Report Number :ER/2021/70041  
 Operation Mode :802.11n40 / Band 4  
 Test Frequency :5795 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane

Test Site :SAC C  
 Test Date :2021-08-24  
 Temp./Humi. :24.1/55  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



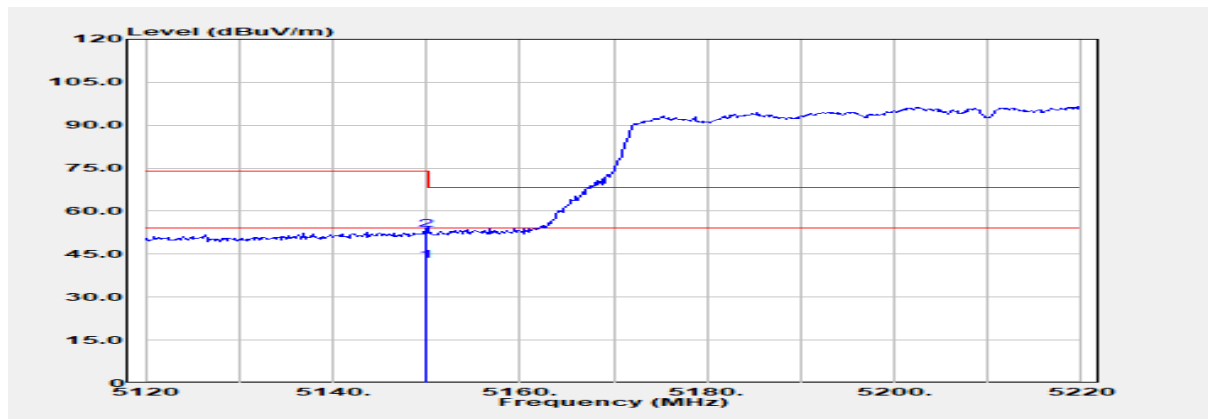
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	54.84	11.31	66.15	122.20	-56.05
5855.000	Peak	53.13	11.61	64.74	110.80	-46.06
5875.000	Peak	47.86	12.08	59.94	105.20	-45.26
5925.000	Peak	39.30	12.98	52.28	68.20	-15.92
5930.849	Peak	40.55	13.14	53.69	68.20	-14.51

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11ac80 / Band 1	Test Date	:2021-08-24
Test Frequency	:5210 MHz	Temp./Humi.	:25.7/50
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.000	Average	32.34	10.50	42.84	54.00	-11.16
5150.000	Peak	42.91	10.50	53.41	74.00	-20.59

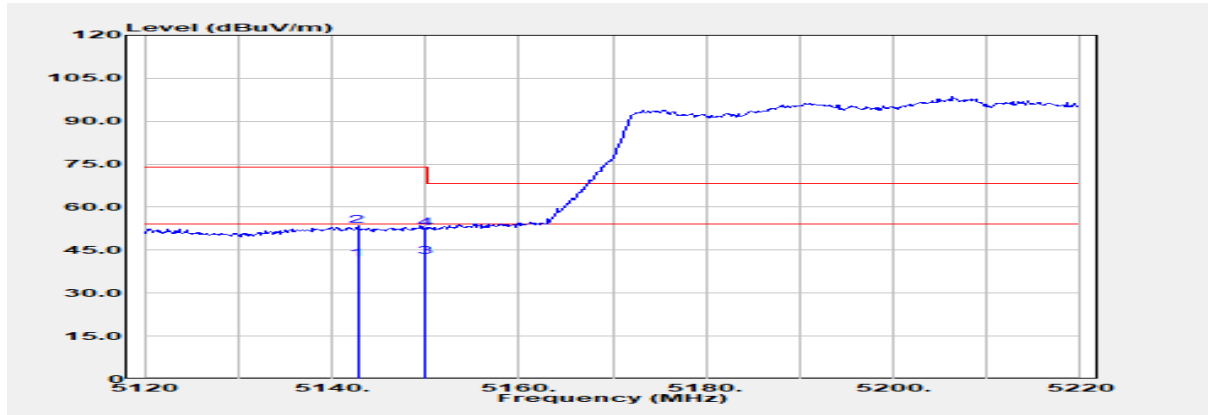
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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11ac80 / Band 1	Test Date	:2021-08-24
Test Frequency	:5210 MHz	Temp./Humi.	:25.7/50
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



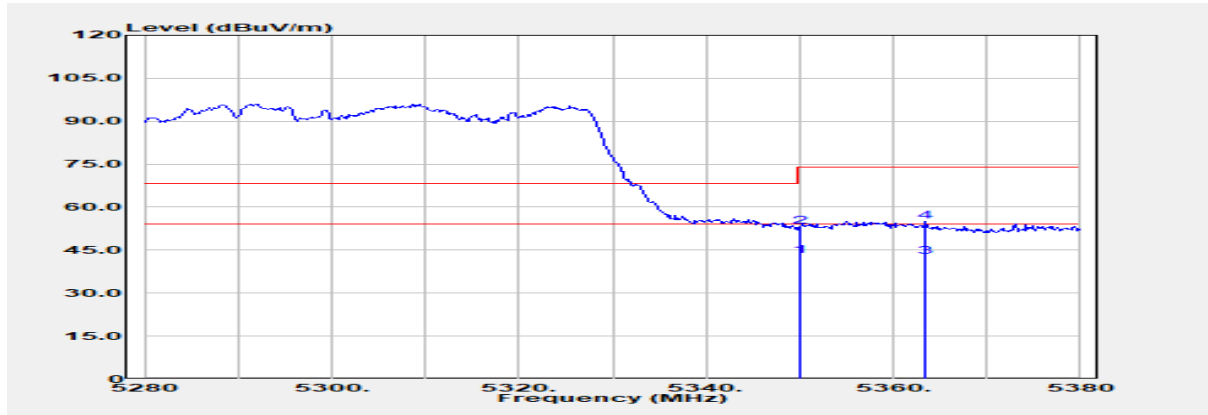
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5142.756	Average	31.39	10.44	41.83	54.00	-12.17
5142.756	Peak	43.19	10.44	53.63	74.00	-20.37
5150.000	Average	32.13	10.50	42.63	54.00	-11.37
5150.000	Peak	42.06	10.50	52.55	74.00	-21.45

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11ac80 / Band 2	Test Date	:2021-08-24
Test Frequency	:5290 MHz	Temp./Humi.	:25.7/50
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



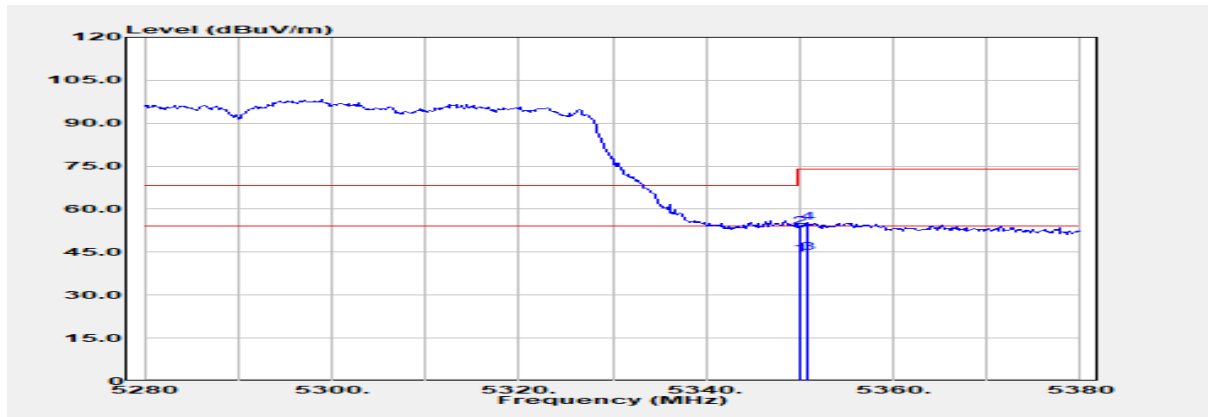
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.000	Average	31.33	11.54	42.87	54.00	-11.13
5350.000	Peak	41.73	11.54	53.26	74.00	-20.74
5363.494	Average	31.31	11.42	42.73	54.00	-11.27
5363.494	Peak	43.74	11.42	55.16	74.00	-18.84

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11ac80 / Band 2	Test Date	:2021-08-24
Test Frequency	:5290 MHz	Temp./Humi.	:25.7/50
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Ashton Chiu



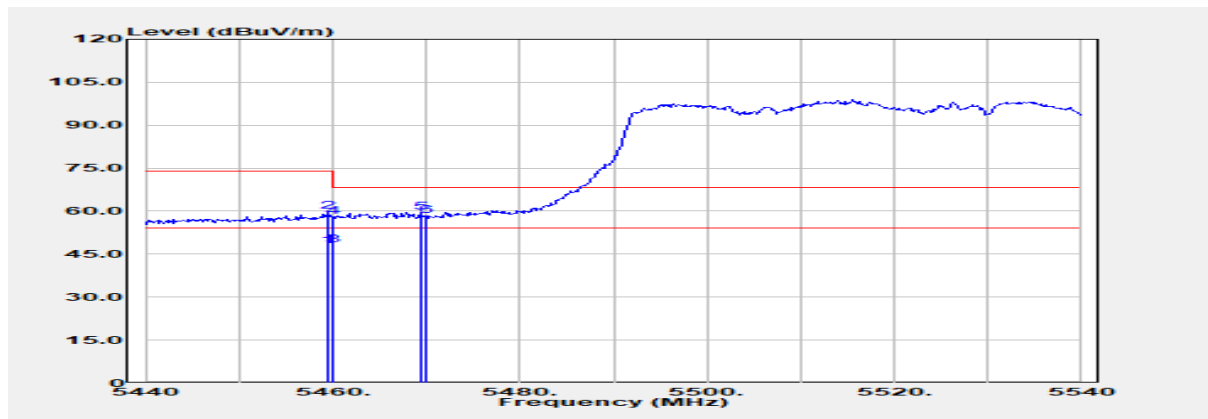
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.000	Average	32.56	11.54	44.10	54.00	-9.90
5350.000	Peak	42.29	11.54	53.82	74.00	-20.18
5350.833	Average	33.35	11.54	44.89	54.00	-9.11
5350.833	Peak	43.68	11.54	55.23	74.00	-18.77

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11ac80 / Band 3	Test Date	:2021-08-24
Test Frequency	:5530 MHz	Temp./Humi.	:25.1/57
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Enzo Chang



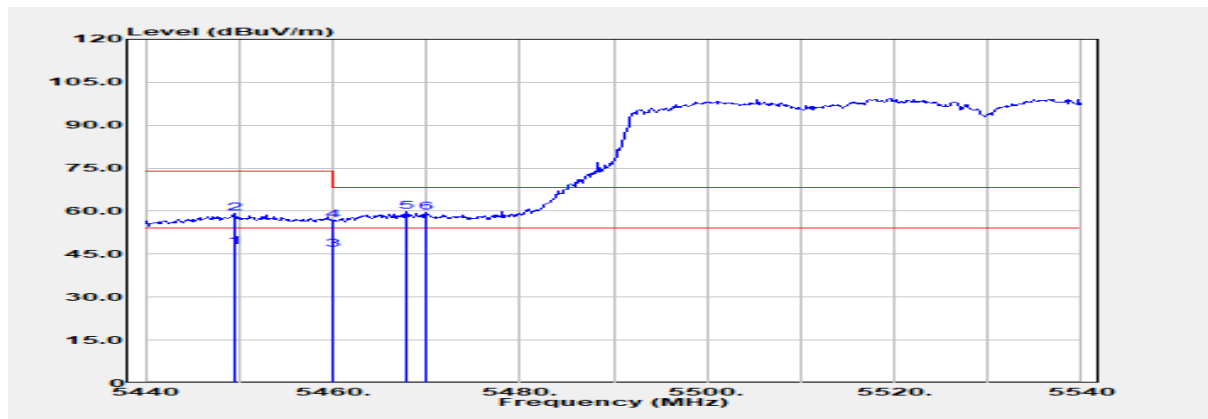
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.551	Average	36.21	11.69	47.90	54.00	-6.10
5459.551	Peak	48.17	11.69	59.86	74.00	-14.14
5460.000	Average	36.38	11.66	48.04	54.00	-5.96
5460.000	Peak	46.29	11.66	57.96	74.00	-16.04
5469.327	Peak	47.84	11.73	59.57	68.20	-8.63
5470.000	Peak	46.47	11.73	58.20	68.20	-10.00

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11ac80 / Band 3	Test Date	:2021-08-24
Test Frequency	:5530 MHz	Temp./Humi.	:25.1/57
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Enzo Chang



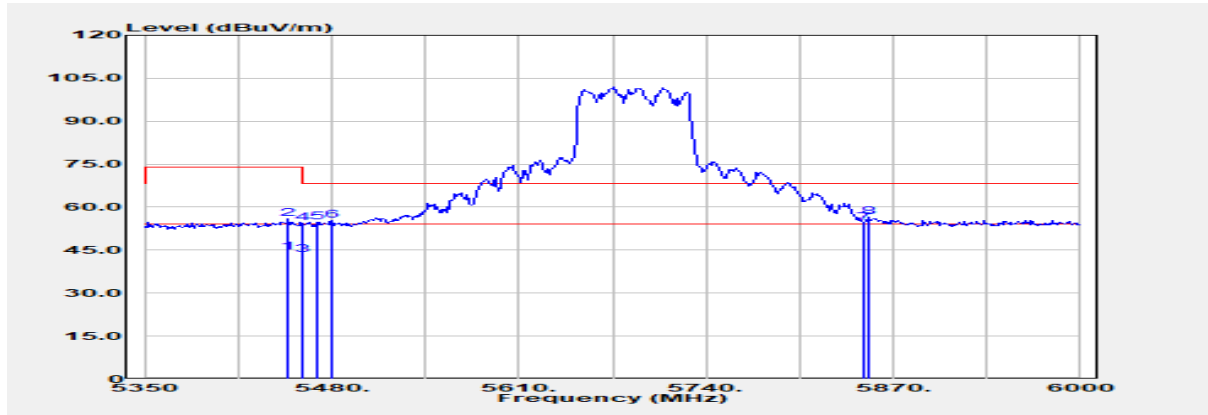
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5449.615	Average	35.27	12.18	47.45	54.00	-6.55
5449.615	Peak	47.00	12.18	59.17	74.00	-14.83
5460.000	Average	34.94	11.66	46.60	54.00	-7.40
5460.000	Peak	45.15	11.66	56.82	74.00	-17.18
5467.885	Peak	48.01	11.72	59.73	68.20	-8.47
5470.000	Peak	47.93	11.73	59.66	68.20	-8.54

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11ac80 / Band 3	Test Date	:2021-08-24
Test Frequency	:5690 MHz	Temp./Humi.	:25.1/57
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Enzo Chang



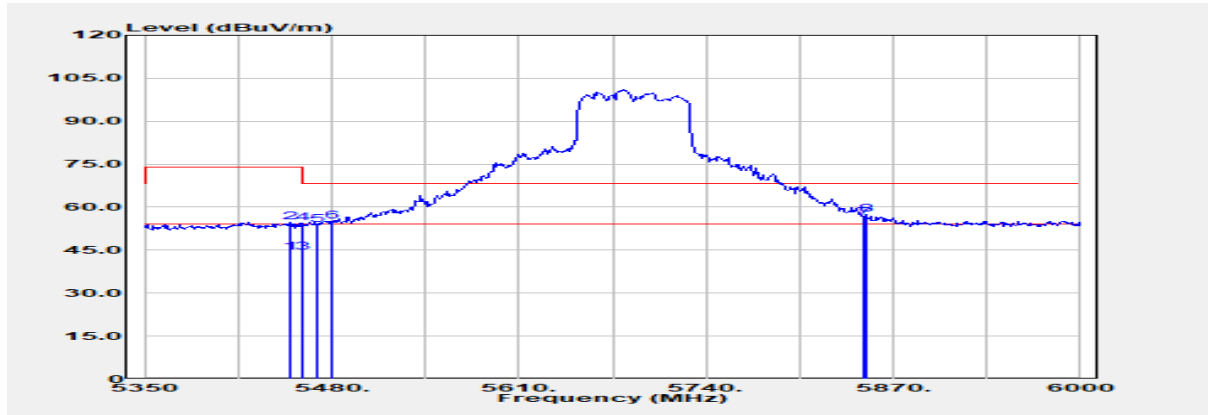
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5450.000	Average	32.10	12.19	44.29	54.00	-9.71
5450.000	Peak	43.74	12.19	55.92	74.00	-18.08
5460.000	Average	31.79	11.66	43.45	54.00	-10.55
5460.000	Peak	42.67	11.66	54.34	74.00	-19.66
5470.000	Peak	42.91	11.73	54.64	68.20	-13.56
5480.000	Peak	43.13	12.35	55.47	68.20	-12.73
5850.000	Peak	43.21	11.31	54.52	68.20	-13.68
5853.125	Peak	44.97	11.50	56.47	68.20	-11.73

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11ac80 / Band 3	Test Date	:2021-08-24
Test Frequency	:5690 MHz	Temp./Humi.	:25.1/57
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Enzo Chang

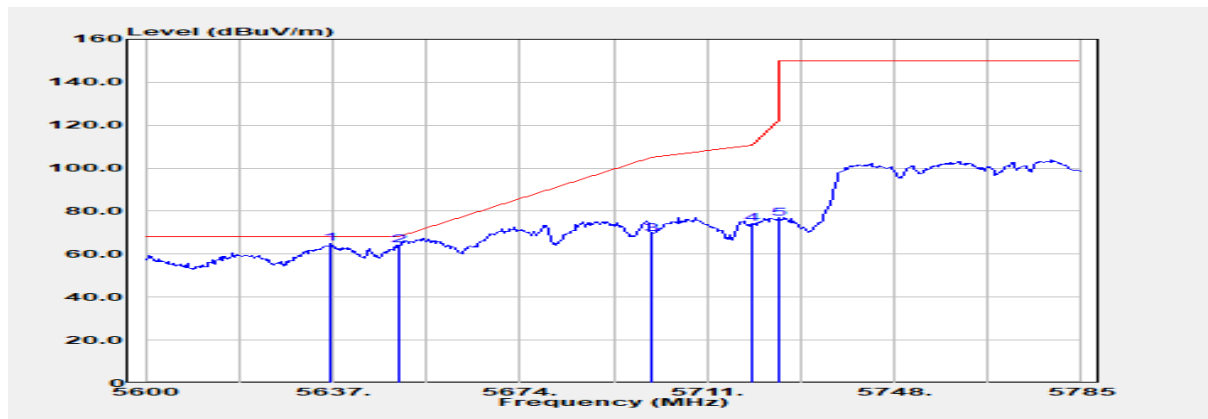


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5451.042	Average	32.01	12.13	44.14	54.00	-9.86
5451.042	Peak	42.75	12.13	54.88	74.00	-19.12
5460.000	Average	32.41	11.66	44.07	54.00	-9.93
5460.000	Peak	42.70	11.66	54.37	74.00	-19.63
5470.000	Peak	42.11	11.73	53.85	68.20	-14.35
5480.000	Peak	42.82	12.35	55.16	68.20	-13.04
5850.000	Peak	45.00	11.31	56.31	68.20	-11.89
5851.042	Peak	45.95	11.37	57.32	68.20	-10.88

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11ac80 / Band 4	Test Date	:2021-08-24
Test Frequency	:5775 MHz	Temp./Humi.	:25.1/57
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Enzo Chang



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
5636.763	Peak	54.07	10.75	64.82	68.20	-3.38
5650.000	Peak	53.54	10.51	64.05	68.20	-4.15
5700.000	Peak	58.89	10.41	69.30	105.20	-35.90
5720.000	Peak	63.32	10.76	74.08	110.80	-36.72
5725.000	Peak	65.80	10.62	76.43	122.20	-45.77

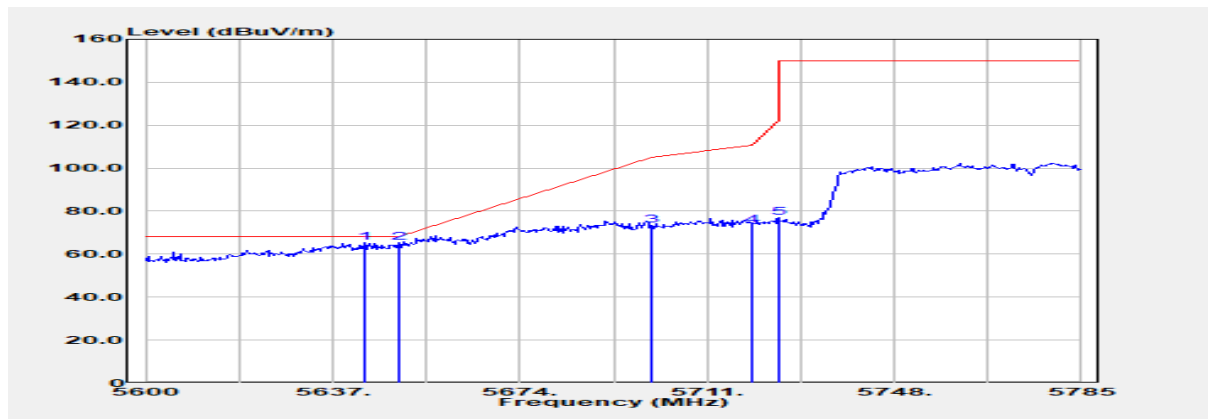
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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11ac80 / Band 4	Test Date	:2021-08-24
Test Frequency	:5775 MHz	Temp./Humi.	:25.1/57
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Enzo Chang



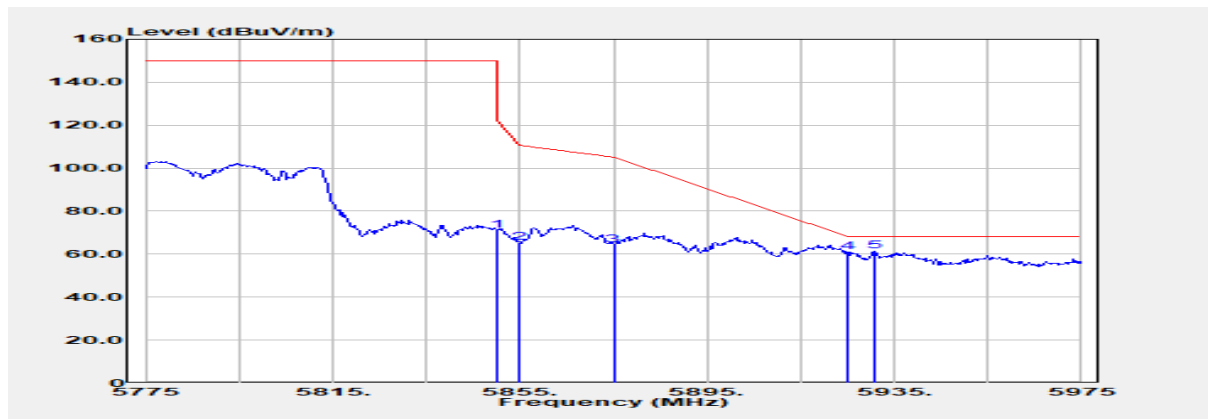
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5643.285	Peak	54.90	10.61	65.52	68.20	-2.68
5650.000	Peak	54.86	10.51	65.37	68.20	-2.83
5700.000	Peak	62.85	10.41	73.25	105.20	-31.95
5720.000	Peak	62.77	10.76	73.53	110.80	-37.27
5725.000	Peak	66.20	10.62	76.82	122.20	-45.38

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11ac80 / Band 4	Test Date	:2021-08-24
Test Frequency	:5775 MHz	Temp./Humi.	:25.1/57
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Enzo Chang



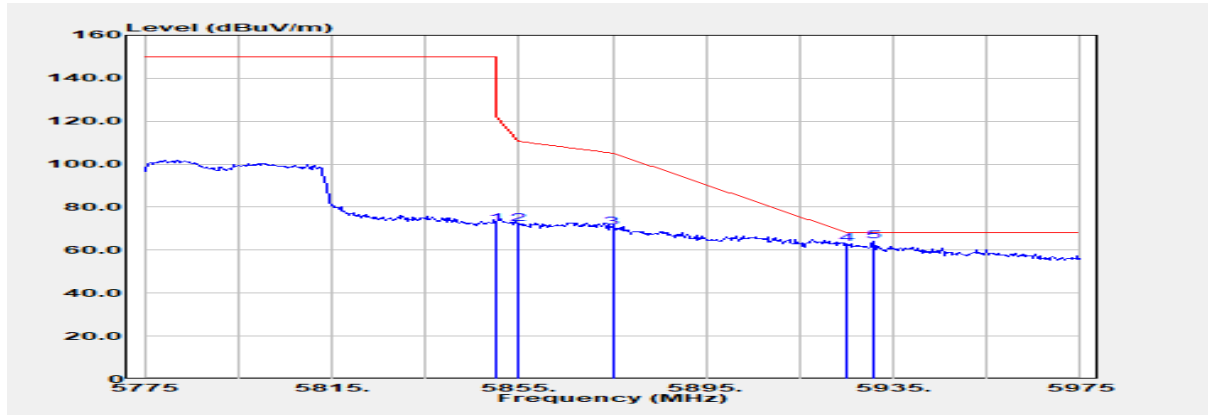
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5850.000	Peak	59.86	11.31	71.17	122.20	-51.03
5855.000	Peak	53.77	11.61	65.38	110.80	-45.42
5875.000	Peak	51.98	12.08	64.06	105.20	-41.14
5925.000	Peak	48.13	12.98	61.11	68.20	-7.09
5930.769	Peak	48.17	13.15	61.31	68.20	-6.89

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Report Number	:ER/2021/70041	Test Site	:SAC C
Operation Mode	:802.11ac80 / Band 4	Test Date	:2021-08-24
Test Frequency	:5775 MHz	Temp./Humi.	:25.1/57
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5850.000	Peak	60.90	11.31	72.20	122.20	-50.00
5855.000	Peak	60.44	11.61	72.05	110.80	-38.75
5875.000	Peak	58.68	12.08	70.76	105.20	-34.44
5925.000	Peak	49.80	12.98	62.78	68.20	-5.42
5930.769	Peak	51.03	13.15	64.18	68.20	-4.02

~ End of Report ~

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