


ELECTROMAGNETIC EMISSIONS  
COMPLIANCE TEST REPORT

**Applicant:** CASTLES TECHNOLOGY CO., LTD.  
6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,  
NEW TAIPEI CITY 23143, TAIWAN (R.O.C)

**Manufacturer:** CASTLES TECHNOLOGY CO., LTD.  
6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,  
NEW TAIPEI CITY 23143, TAIWAN (R.O.C)

**Product Name:** Smart module

**Brand Name:**  CASTLES  
TECHNOLOGY

**Model No.:** SLM500

**Model Difference:** N/A

**Report Number:** TERF2210002034E2

**FCC ID** WIYSLM500QA

**IC:** 27350-SLM500QA

**Issue Date:** December 08, 2022

**Date of Test:** October 28, 2022 ~ November 21, 2022

**Date of EUT Received:** October 20, 2022

Approved By

Jay Lin

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407, ISED RSS-247.

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
TERF2210002034E2	00	Original.	December 08, 2022	Susan Lin	

**Note:**

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

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## 1 GENERAL INFORMATION

### 1.1 Product Description

Product Name:	Smart module
Brand Name:	
Model No.:	SLM500
Model Difference:	N/A
Hardware Version:	V1.00
Firmware Version:	N/A
EUT Series No.:	573223200140
Product Name of Host:	POS Terminal
Brand Name of Host:	
Model No. of Host:	S1U2
Power Supply:	9Vdc from Adapter
Test Software (Name/Version):	Qualcomm Radio Control Toolkit/Version 4.0.00163.0

### 1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: up to 72.2 Mbps
	802.11 n_40MHz: up to 150 Mbps
	802.11 ac_20MHz: up to 86.7 Mbps
	802.11 ac_40MHz: up to 200 Mbps
	802.11 ac_80MHz: up to 433.3 Mbps

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### 1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	5150~5250	1.99	V

**Note:** Antenna information is provided by the applicant.

### 1.4 FCC

Wi-Fi	Frequency Range	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/ n_HT/ ac_VHT 20M	5180~5240	13.86 dBm	OFDM
n_HT/ ac_VHT 40M	5190~5230	13.44 dBm	OFDM
ac_VHT 80M	5210	12.86 dBm	OFDM

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Wi-Fi	Frequency Range	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)		Modulation Technology
a/ n_HT/ ac_VHT 20M	5180~5240	EIRP	15.85	dBm	OFDM
n_HT/ ac_VHT 40M	5190~5230	EIRP	15.44	dBm	OFDM
ac_VHT 80M	5210	EIRP	14.85	dBm	OFDM

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### 1.6 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  
RSS-247 issue 2 Feb. 2017  
RSS-Gen, Issue 5 April 2018  
ANSI C63.10:2013

### 1.7 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 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
	Conducted 6			
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	TW3702
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
Conducted F				
Conducted G				

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

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## 1.8 Special Accessories

There are no special accessories used while test was conducted.

## 1.9 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

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

### 2.3 Test Procedure

#### 2.3.1 Conducted Test (RF)

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

#### 2.3.2 Radiated Emissions

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

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## 2.4 Measurement Results Explanation Example

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

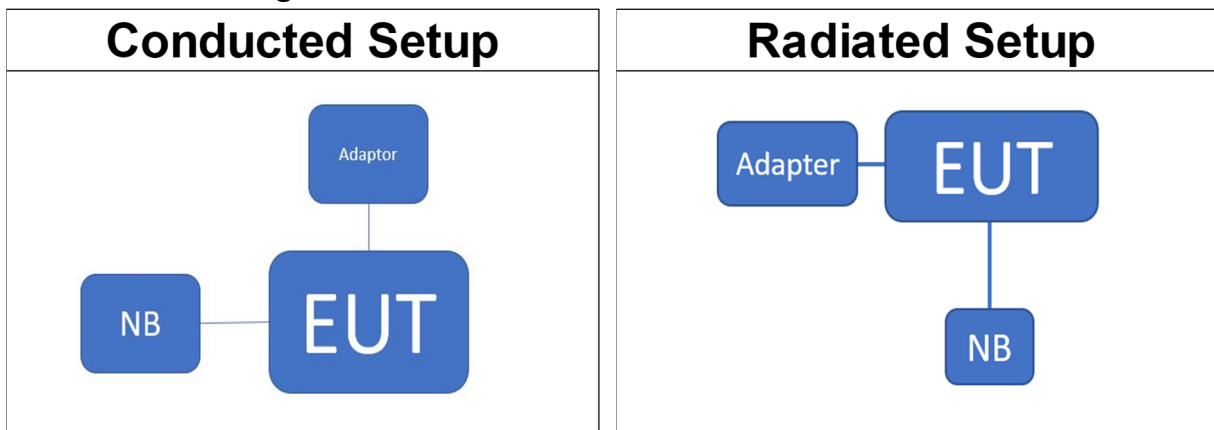
Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

### 2.4.2 For all conducted test items:

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

## 2.5 Test Configuration



## 2.6 Control Unit(s)

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB Cable	CHANG YANG ELECTRONICS CO., LTD	CY-AS-HK0059	N/A	N/A	N/A
Adaptor	CASTLE TECHNOLOGY	PW04-945A	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Cable	CHANG YANG ELECTRONICS CO., LTD	CY-AS-HK0059	N/A	N/A	N/A
Adaptor	CASTLE TECHNOLOGY	PW04-945A	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A

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### 3 SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operating Frequencies

Operated band in 5150 MHz ~5250 MHz:

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

### 4.2 The Worst Test Modes and Channel Details

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

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

- 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.

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,40,48	OFDM	6	ch0
802.11n_HT20	5180~5240	36 to 48	36,40,48	OFDM	MCS0	ch0
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	ch0
802.11ac_VHT80	5210	42	42	OFDM	MCS0	ch0

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RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36	OFDM	6	1TX

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	1TX
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	1TX
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	1TX
802.11ac_VHT80	5210	42	42	OFDM	MCS0	1TX

**Note:**

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

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## 5 MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	+/-	<b>2.57</b>	<b>dB</b>	9kHz~30MHz
	+/-	<b>4.85</b>	<b>dB</b>	30MHz - 1000MHz
	+/-	<b>4.45</b>	<b>dB</b>	1GHz - 18GHz
	+/-	<b>4.24</b>	<b>dB</b>	18GHz - 40GHz
Polarization: Horizontal	+/-	<b>2.57</b>	<b>dB</b>	9kHz~30MHz
	+/-	<b>4.37</b>	<b>dB</b>	30MHz - 1000MHz
	+/-	<b>4.45</b>	<b>dB</b>	1GHz - 18GHz
	+/-	<b>4.24</b>	<b>dB</b>	18GHz - 40GHz

### Note:

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

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## 6 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 6.1 Standard Applicable

#### 6.1.1 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.

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### 6.1.2 Output Power

Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A		Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C		Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3		Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
		indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
		subordinate device	Not required	36dBm	Not required	Not required

1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.  
2. For the 10 log B, B is the 26 dB emission bandwidth.

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FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4		
			EIRP	Conducted Output Power	TPC
5150~5250		OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
	V	Other device	200 mW or $10 + 10 \log_{10} B$ dBm	N/A	N/A
5250~5350		OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
		Other device	1.0 W or $17 + 10 \log_{10} B$ dBm	250 mW or $11 + 10 \log_{10} B$	EIRP >500mW, at least 6dB below 1W EIRP
		Outdoor Fixed with EIRP>200mW	$-13$ dBW/MHz for $0^\circ \leq \theta < 8^\circ$ $-13 - 0.716 (\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22 (\theta - 40)$ dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$ $-42$ dBW/MHz for $\theta > 45^\circ$	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725		All	1.0 W or $17 + 10 \log_{10} B$ dBm	250 mW or $11 + 10 \log_{10} B$	EIRP >500mW, at least 6dB below 1W EIRP
5725~5850		All	N/A	1 W	N/A

1 For equipment operating in the band 5725-5850 MHz, 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 directional gain of the antenna exceeds 6 dBi.

2. For the  $10 \log B$ , B is the 99% emission bandwidth.

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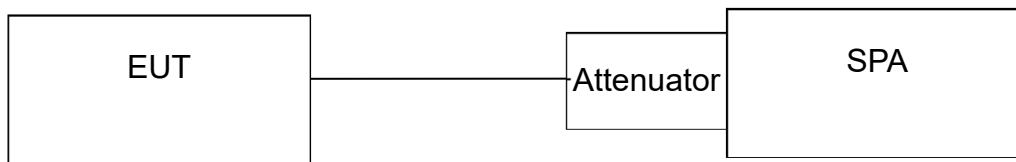
## 6.2 Measurement Equipment Used:

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/08/2022	06/07/2023
Power Meter	Anritsu	ML2496A	1804002	04/27/2022	04/26/2023
Power Sensor	Anritsu	MA2411B	1726105	04/27/2022	04/26/2023
Power Sensor	Anritsu	MA2411B	1726106	04/27/2022	04/26/2023
Attenuator	Marvelous	MVE2213-10	RF06	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF19	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF22	11/18/2021	11/17/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
DC Block	PASTERNAK	PE8210	RF158	11/18/2021	11/17/2022

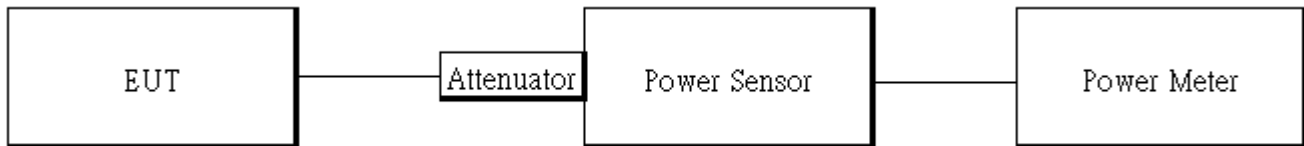
**NOTE:** N.C.R refers to Not Calibrated Required.

## 6.3 Test Setup

### 6.3.1 Duty Cycle



### 6.3.2 Output Power



## 6.4 Measurement Procedure

### 6.4.1 Duty Cycle Measurements

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

### 6.4.2 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add  $10 \log(1/\text{duty cycle})$ .

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6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

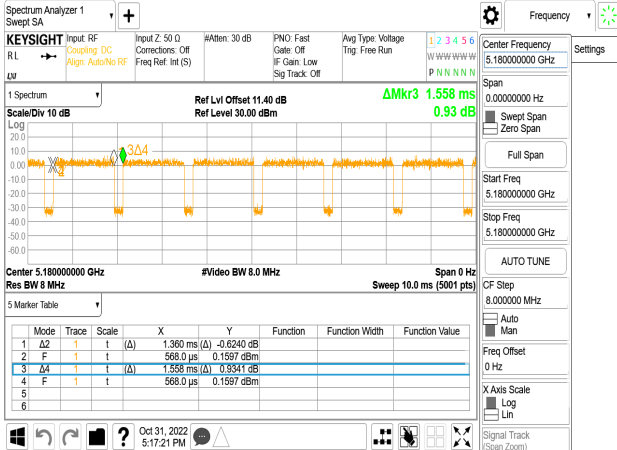
### 6.5 Duty Cycle Measurement Result

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11a	87.29	0.59	0.74	1.00
802.11n_20	86.53	0.63	0.79	1.00
802.11ac_20	83.13	0.80	1.02	2.00
802.11n_40	86.41	0.63	0.79	1.00
802.11ac_40	71.26	1.47	2.02	3.00
802.11ac_80	55.35	2.57	4.03	5.00

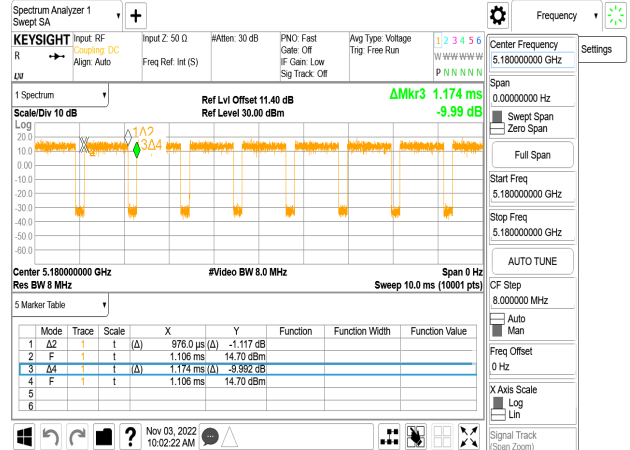
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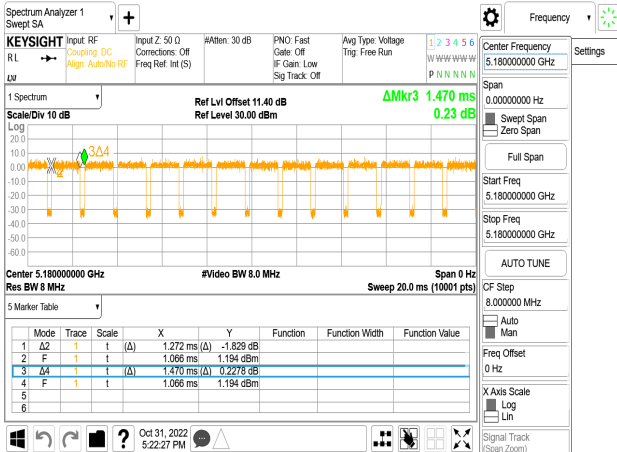
802.11a\_20MHz\_Chain0\_5180MHz



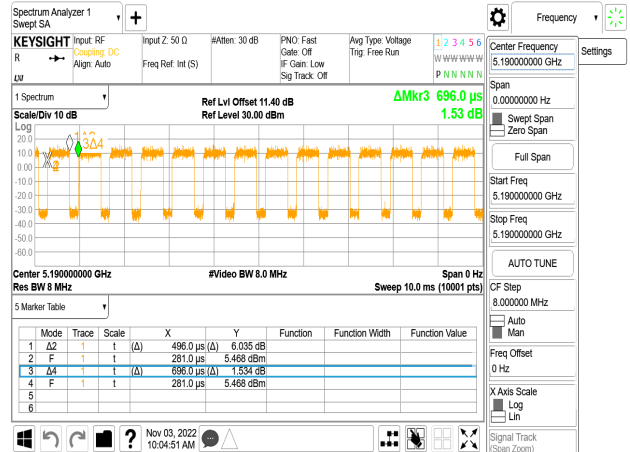
802.11ac\_20MHz\_Chain0\_5180MHz



802.11n\_20MHz\_Chain0\_5180MHz



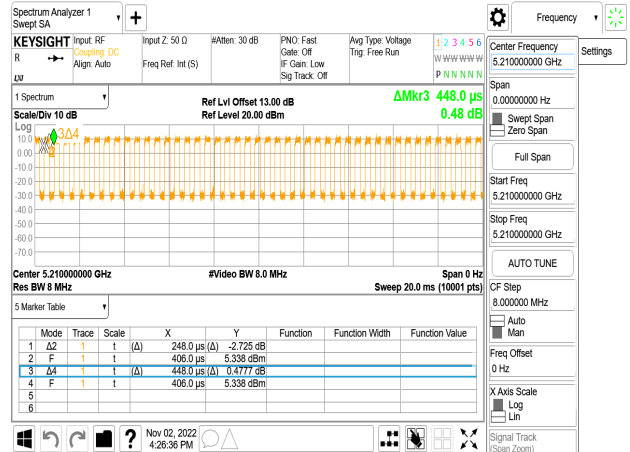
802.11ac\_40MHz\_Chain0\_5190MHz



802.11n\_40MHz\_Chain0\_5190MHz



802.11ac\_80MHz\_Chain0\_5210MHz



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## 6.6 Output Power Measurement Result

### 6.6.1 FCC Output power

#### 802.11a\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	19.5	<b>13.83</b>	24.157	23.98	PASS
40	5200	6	19.5	13.77	23.825	23.98	PASS
48	5240	6	19.5	13.69	23.390	23.98	PASS

#### 802.11n\_HT20\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	19.5	<b>13.86</b>	24.313	23.98	PASS
40	5200	MCS0	19	13.37	21.719	23.98	PASS
48	5240	MCS0	19	13.35	21.619	23.98	PASS

#### 802.11n\_HT40\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	19	<b>13.44</b>	22.102	23.98	PASS
46	5230	MCS0	18.5	12.94	19.699	23.98	PASS

#### 802.11ac\_VHT20\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	19	<b>13.84</b>	24.224	23.98	PASS
40	5200	MCS0	18	13.14	20.618	23.98	PASS

#### 802.11ac\_VHT40\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	18	<b>13.18</b>	20.804	23.98	PASS
46	5230	MCS0	18	12.88	19.416	23.98	PASS

#### 802.11ac\_VHT80\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	18	<b>12.86</b>	19.314	23.98	PASS

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### 6.6.2 ISED EIRP

#### 802.11a\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.83	1.99	15.82	38.194	23.01	PASS
40	5200	13.77	1.99	15.76	37.670	23.01	PASS
48	5240	13.69	1.99	15.68	36.983	23.01	PASS

#### 802.11n\_HT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.86	1.99	15.85	38.459	23.01	PASS
40	5200	13.37	1.99	15.36	34.356	23.01	PASS
48	5240	13.35	1.99	15.34	34.198	23.01	PASS

#### 802.11n\_HT40\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	13.44	1.99	15.44	34.995	23.01	PASS
46	5230	12.94	1.99	14.94	31.189	23.01	PASS

#### 802.11ac\_VHT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.84	1.99	15.83	38.282	23.01	PASS
40	5200	13.14	1.99	15.13	32.584	23.01	PASS
48	5240	13.33	1.99	15.32	34.041	23.01	PASS

#### 802.11ac\_VHT40\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	13.18	1.99	15.17	32.885	23.01	PASS
46	5230	12.88	1.99	14.87	30.690	23.01	PASS

#### 802.11ac\_VHT80\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	12.86	1.99	14.85	30.549	23.01	PASS

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## 7 UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 7.1 Standard Applicable

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

#### 7.1.1 5150~5850 MHz

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

#### 7.1.2 Spurious Emission

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

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

**Note:**

- The lower limit shall apply at the transition frequencies.

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## 7.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	02/15/2022	02/14/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/15/2022	12/14/2023
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/08/2022	04/07/2023
Loop Antenna	ETS.LINDGREN	6502	143303	05/06/2022	05/07/2023
3m Site NSA	SGS	966 chamber G	N/A	03/30/2022	03/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2022	07/14/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2022	10/24/2023
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2022	03/14/2023
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216 、 210217 、 210218	03/15/2022	03/14/2023

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

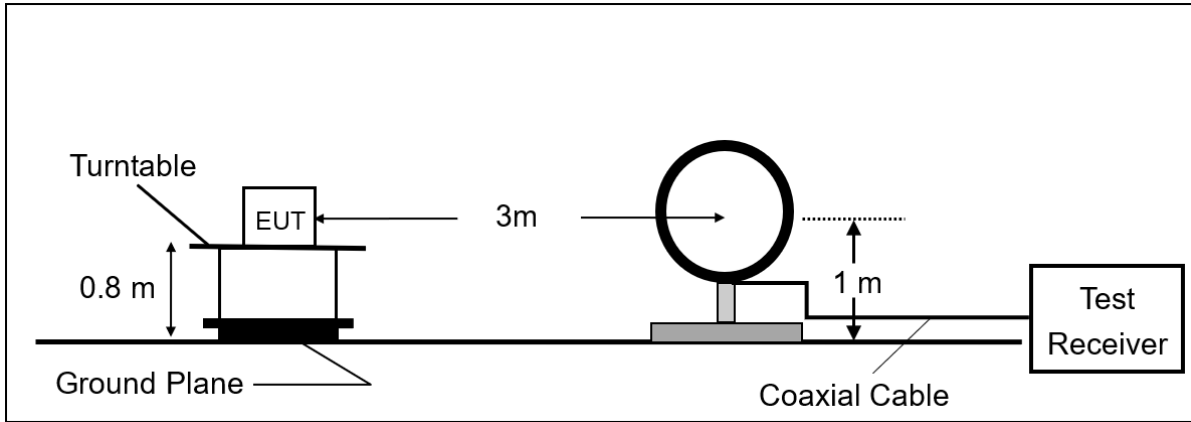
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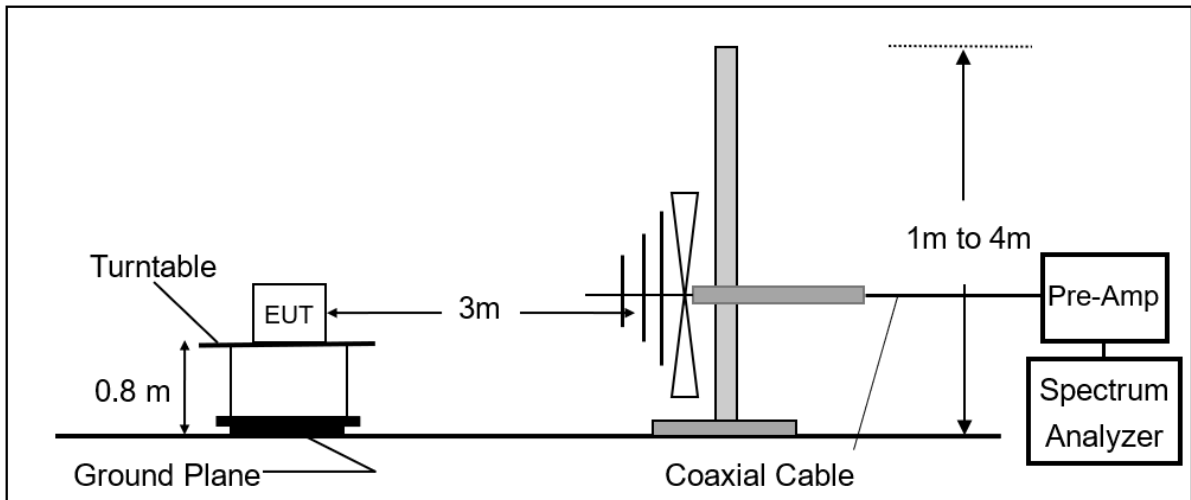


## 7.3 Test Setup

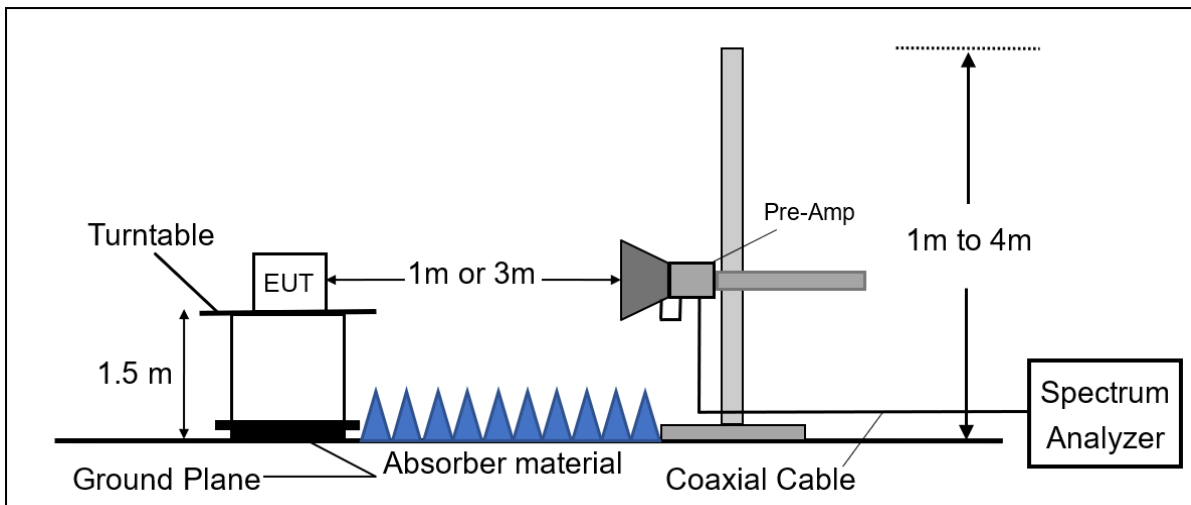
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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## 7.4 Measurement Procedure

1. The testing follows FCC KDB 789033 D02.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all frequency measured were complete.

## 7.5 Field Strength Calculation

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

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

**Where** *FS* = Field Strength

*CL* = Cable Attenuation Factor (Cable Loss)

*RA* = Reading Amplitude

*AG* = Amplifier Gain

*AF* = Antenna Factor

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

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

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

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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

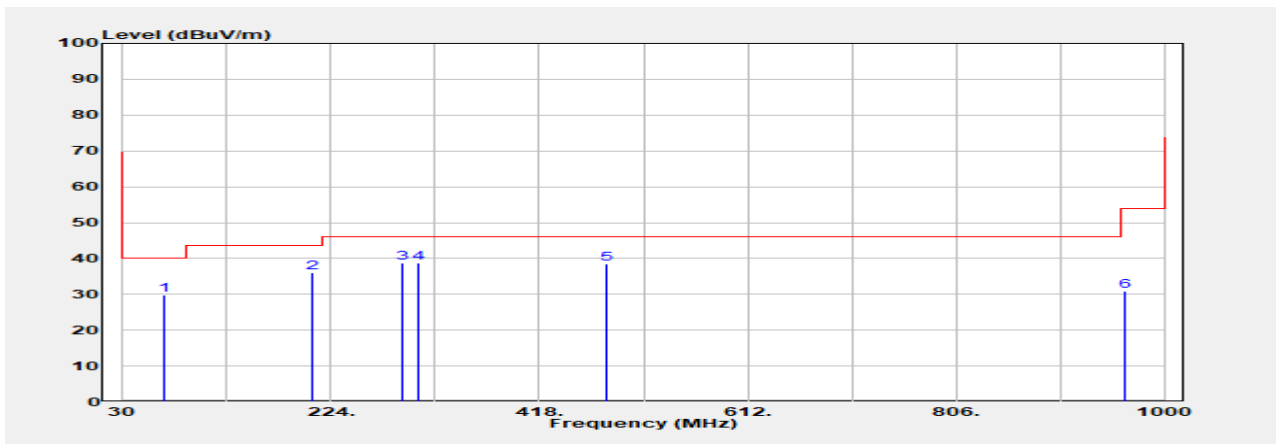
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## 7.7 Radiated Spurious Emission Measurement Result

### 7.7.1 Spurious Emission

Report Number	:TERF2210002034E2	Test Site	:SAC G
Operation Mode	:802.11a	Test Date	:2022-11-14
Test Frequency	:5180 MHz	Temp./Humi.	:22.2/62
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
68.800	Peak	44.46	-14.73	29.74	40.00	-10.26
206.540	Peak	52.35	-16.30	36.05	43.50	-7.45
289.960	Peak	51.45	-12.66	38.79	46.00	-7.21
305.480	Peak	50.99	-12.27	38.72	46.00	-7.28
481.050	Peak	46.59	-8.03	38.56	46.00	-7.44
963.140	Peak	30.40	0.50	30.91	54.00	-23.09

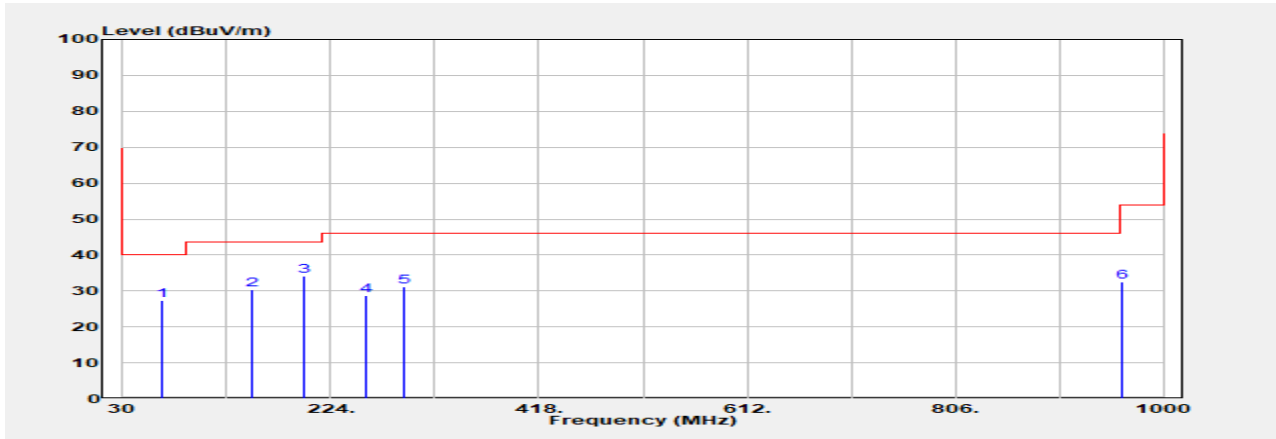
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Report Number :TERF2210002034E2  
Operation Mode :802.11a  
Test Frequency :5180 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-14  
Temp./Humi. :22.2/62  
Antenna Pol. :HORIZONTAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
66.860	Peak	41.81	-14.50	27.31	40.00	-12.69
150.280	Peak	43.55	-13.12	30.43	43.50	-13.07
199.750	QP	50.30	-16.25	34.05	43.50	-9.45
256.980	QP	42.70	-14.03	28.67	46.00	-17.33
292.870	QP	43.70	-12.62	31.08	46.00	-14.92
962.170	Peak	32.15	0.48	32.63	54.00	-21.37

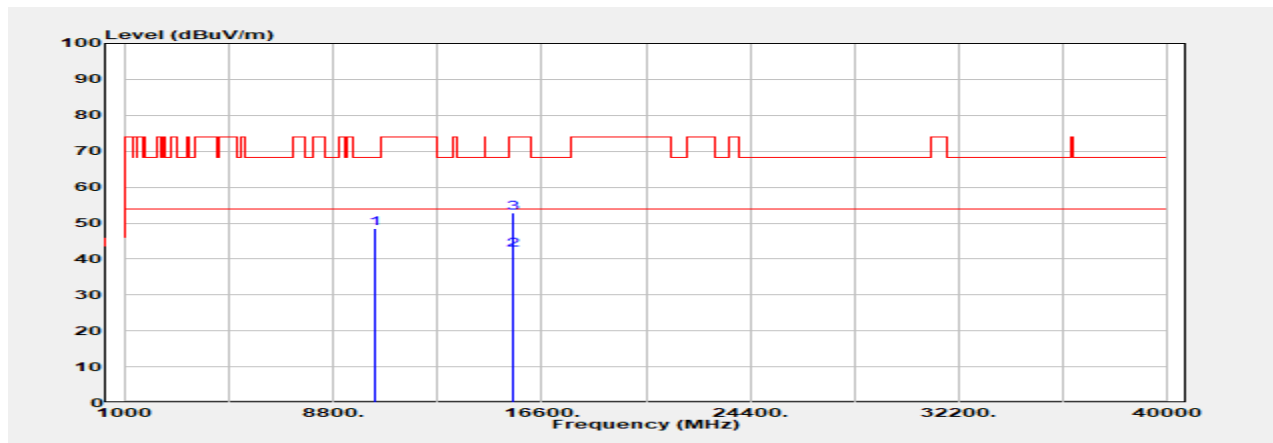
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Report Number :TERF2210002034E2  
Operation Mode :802.11a  
Test Frequency :5180 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :VERTICAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.000	Peak	39.41	8.98	48.40	68.20	-19.80
15540.000	Average	30.26	12.34	42.60	54.00	-11.40
15540.000	Peak	40.43	12.34	52.77	74.00	-21.23

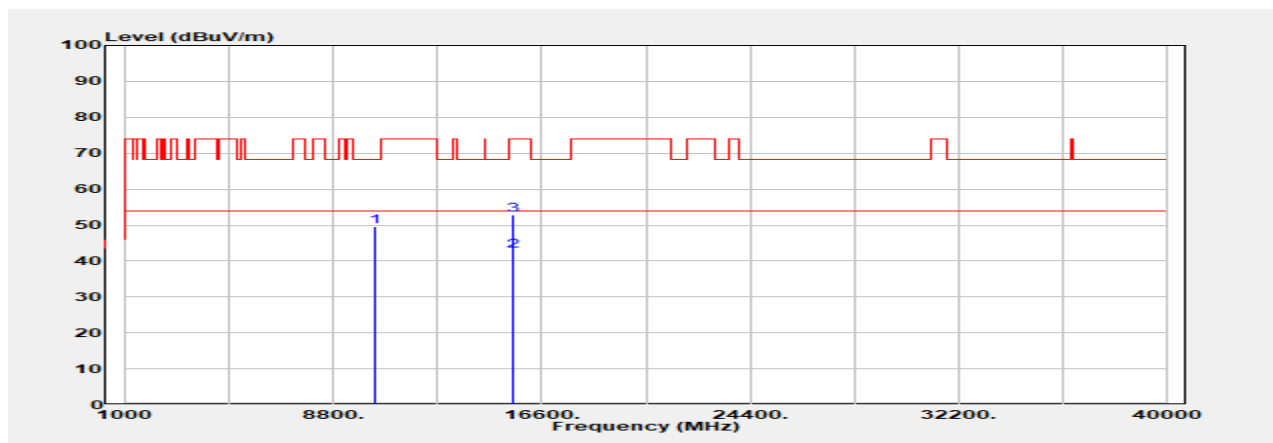
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Report Number :TERF2210002034E2  
Operation Mode :802.11a  
Test Frequency :5180 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :HORIZONTAL  
Engineer :Temo Chen



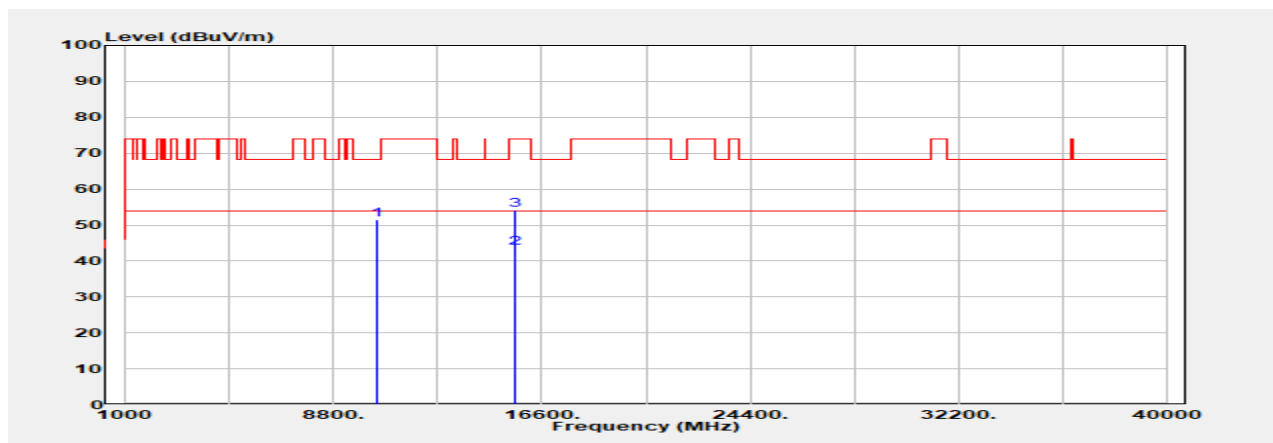
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.000	Peak	40.50	8.98	49.48	68.20	-18.72
15540.000	Average	30.41	12.34	42.75	54.00	-11.25
15540.000	Peak	40.43	12.34	52.77	74.00	-21.23

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Report Number :TERF2210002034E2  
Operation Mode :802.11a  
Test Frequency :5200 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :VERTICAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10400.000	Peak	43.28	8.23	51.51	68.20	-16.69
15600.000	Average	31.70	11.97	43.67	54.00	-10.33
15600.000	Peak	42.16	11.97	54.13	74.00	-19.87

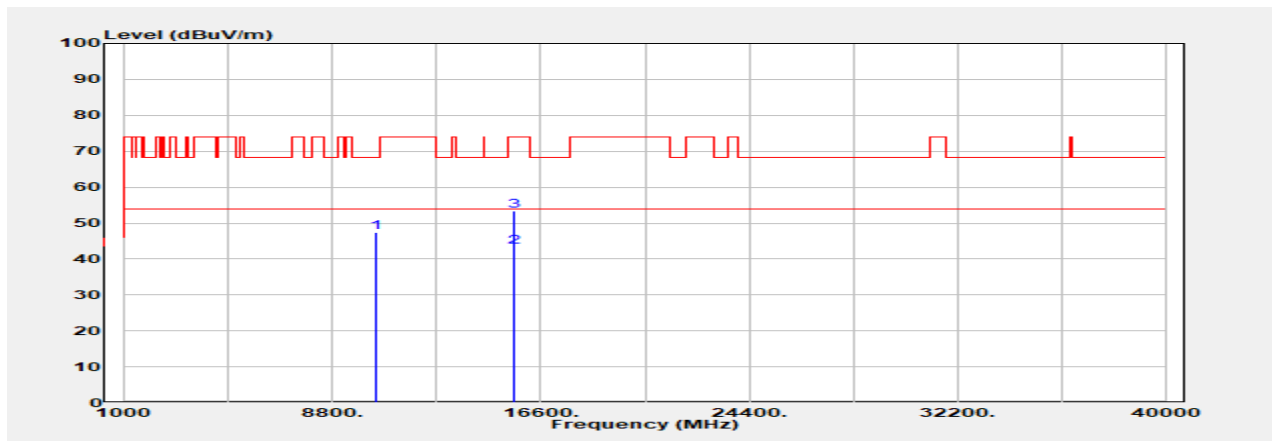
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Report Number :TERF2210002034E2  
Operation Mode :802.11a  
Test Frequency :5200 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :HORIZONTAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10400.000	Peak	39.19	8.23	47.42	68.20	-20.78
15600.000	Average	31.43	11.97	43.40	54.00	-10.60
15600.000	Peak	41.49	11.97	53.46	74.00	-20.54

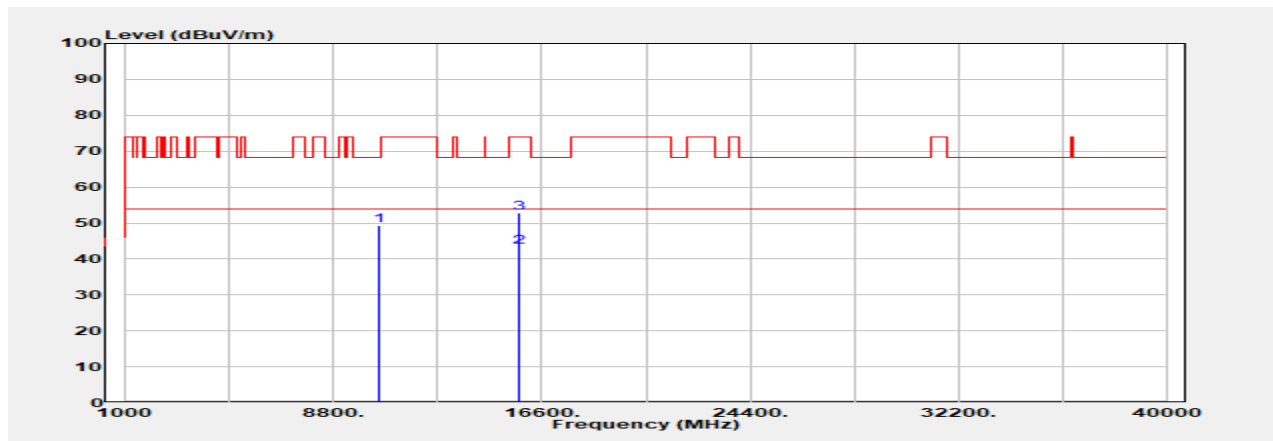
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Report Number :TERF2210002034E2  
Operation Mode :802.11a  
Test Frequency :5240 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :VERTICAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.000	Peak	39.87	9.43	49.30	68.20	-18.90
15720.000	Average	31.87	11.49	43.36	54.00	-10.64
15720.000	Peak	41.23	11.49	52.72	74.00	-21.28

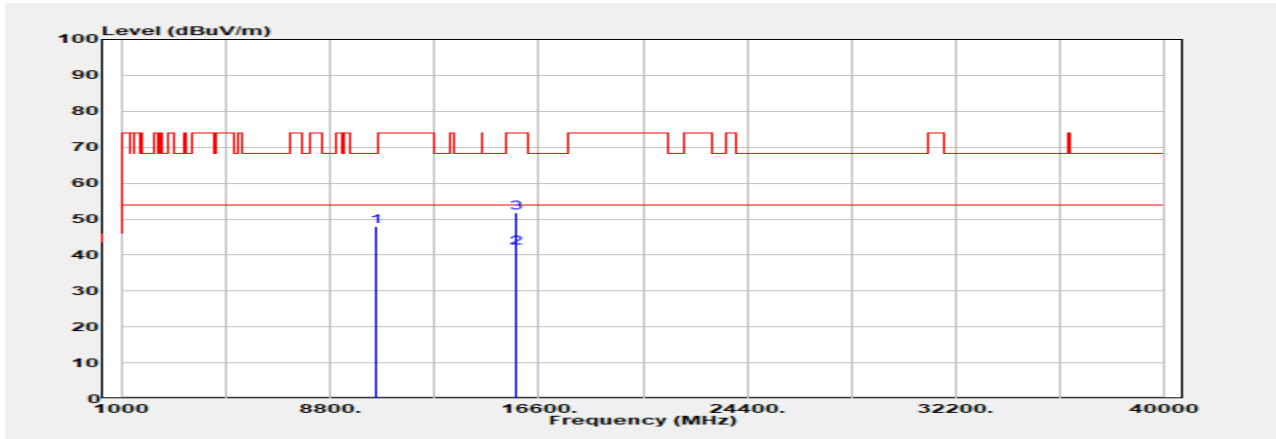
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Report Number :TERF2210002034E2  
Operation Mode :802.11a  
Test Frequency :5240 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :HORIZONTAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.000	Peak	38.48	9.43	47.91	68.20	-20.29
15720.000	Average	30.56	11.49	42.05	54.00	-11.95
15720.000	Peak	40.22	11.49	51.72	74.00	-22.28

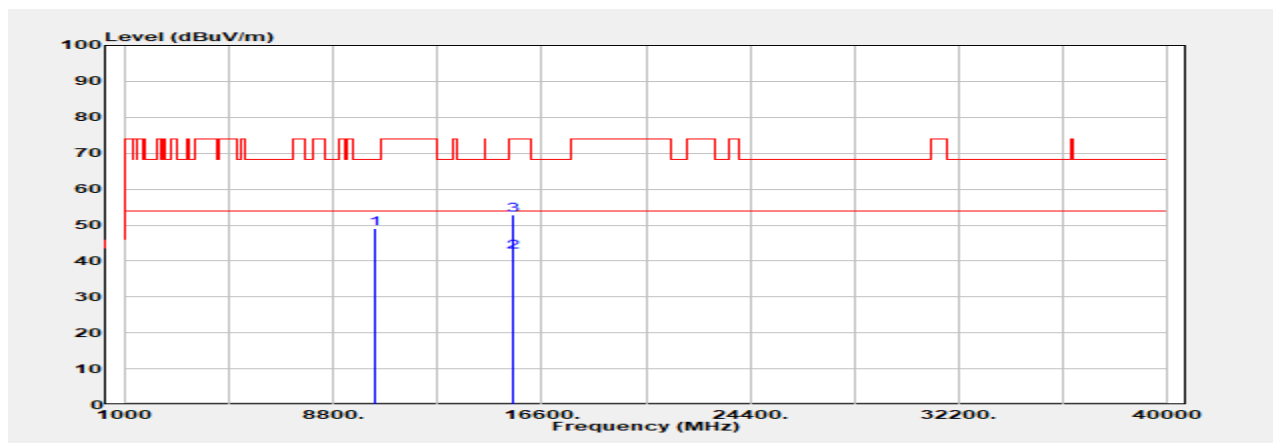
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Report Number :TERF2210002034E2  
Operation Mode :802.11n20  
Test Frequency :5180 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :VERTICAL  
Engineer :Temo Chen



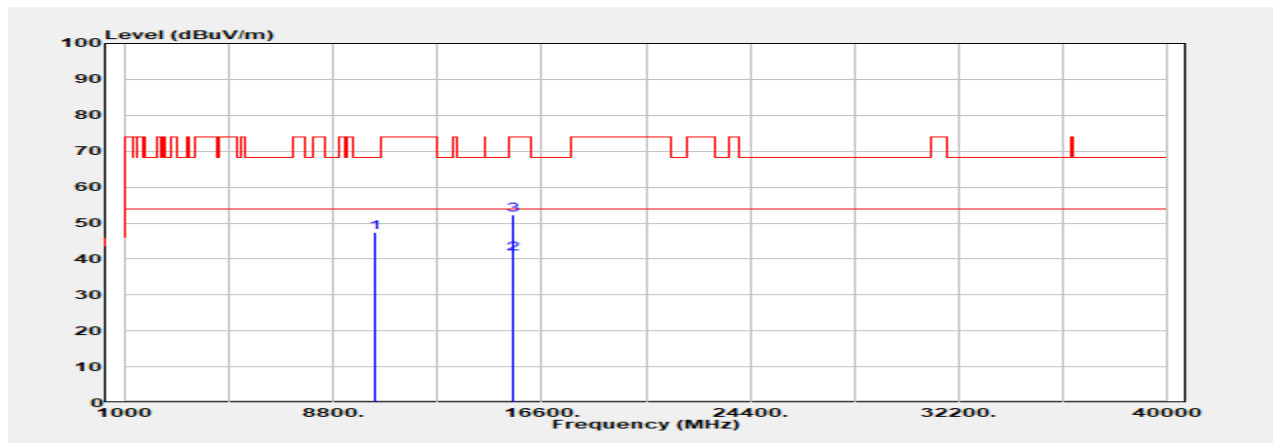
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.000	Peak	39.95	8.98	48.94	68.20	-19.26
15540.000	Average	30.31	12.34	42.66	54.00	-11.34
15540.000	Peak	40.44	12.34	52.78	74.00	-21.22

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Report Number :TERF2210002034E2  
Operation Mode :802.11n20  
Test Frequency :5180 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :HORIZONTAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.000	Peak	38.31	8.98	47.29	68.20	-20.91
15540.000	Average	29.13	12.34	41.47	54.00	-12.53
15540.000	Peak	39.99	12.34	52.33	74.00	-21.67

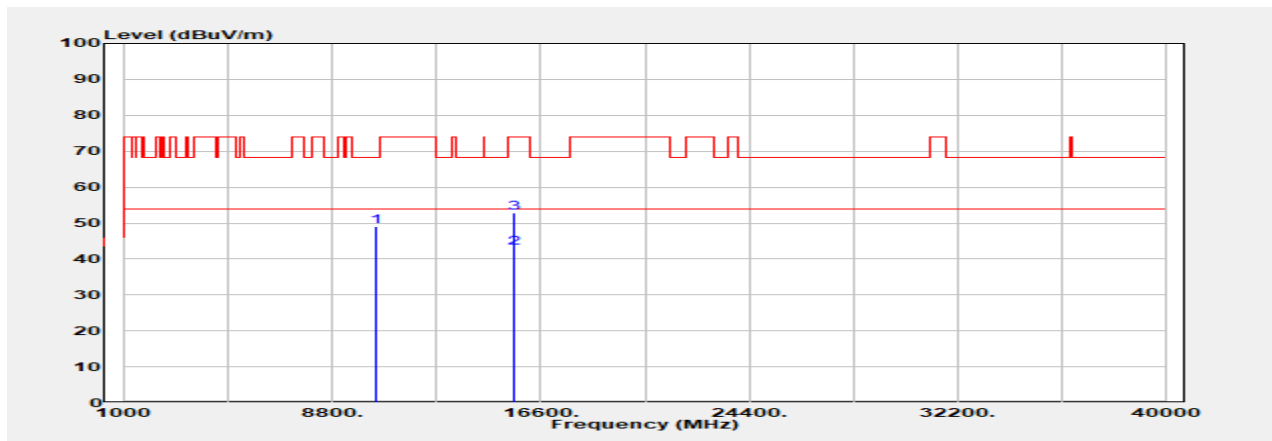
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Report Number :TERF2210002034E2  
Operation Mode :802.11n20  
Test Frequency :5200 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :VERTICAL  
Engineer :Temo Chen



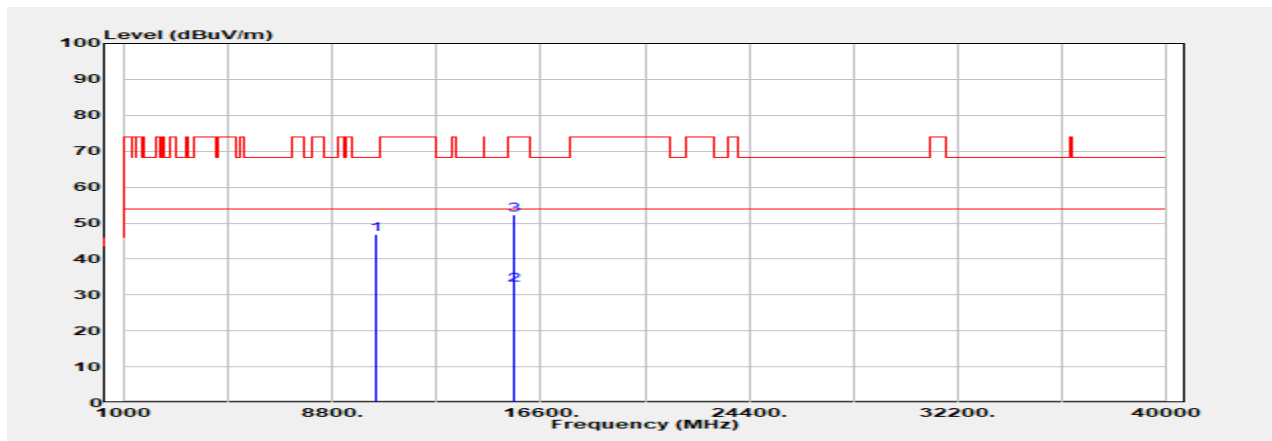
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10400.000	Peak	40.90	8.23	49.13	68.20	-19.07
15600.000	Average	31.08	11.97	43.05	54.00	-10.95
15600.000	Peak	40.94	11.97	52.91	74.00	-21.09

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Report Number :TERF2210002034E2  
Operation Mode :802.11n20  
Test Frequency :5200 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :HORIZONTAL  
Engineer :Temo Chen



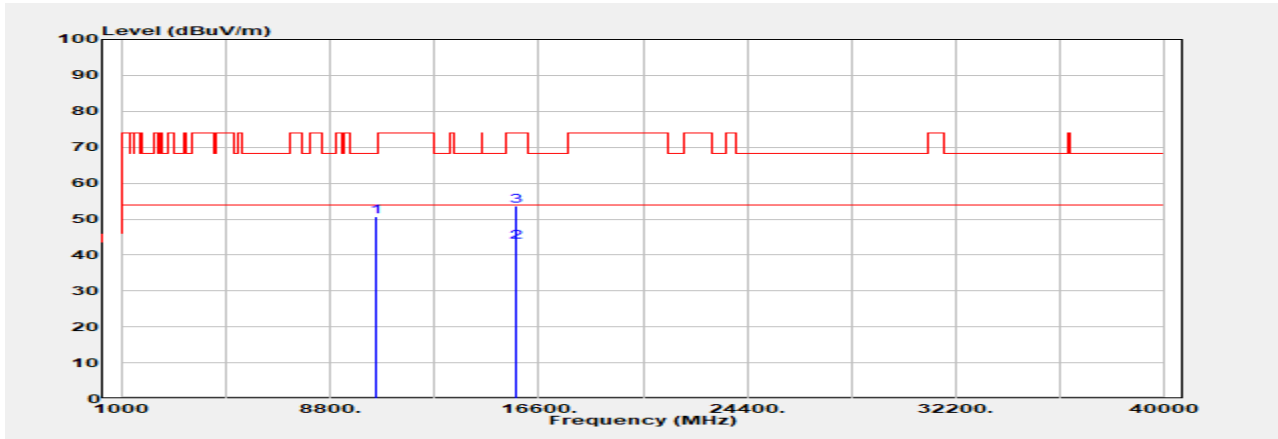
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10400.000	Peak	38.56	8.23	46.79	68.20	-21.41
15600.000	Average	20.87	11.97	32.84	54.00	-21.16
15600.000	Peak	40.38	11.97	52.35	74.00	-21.65

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Report Number	:TERF2210002034E2	Test Site	:SAC G
Operation Mode	:802.11n20	Test Date	:2022-11-12
Test Frequency	:5240 MHz	Temp./Humi.	:21.9/68
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.000	Peak	41.12	9.43	50.55	68.20	-17.65
15720.000	Average	32.04	11.49	43.53	54.00	-10.47
15720.000	Peak	42.11	11.49	53.60	74.00	-20.40

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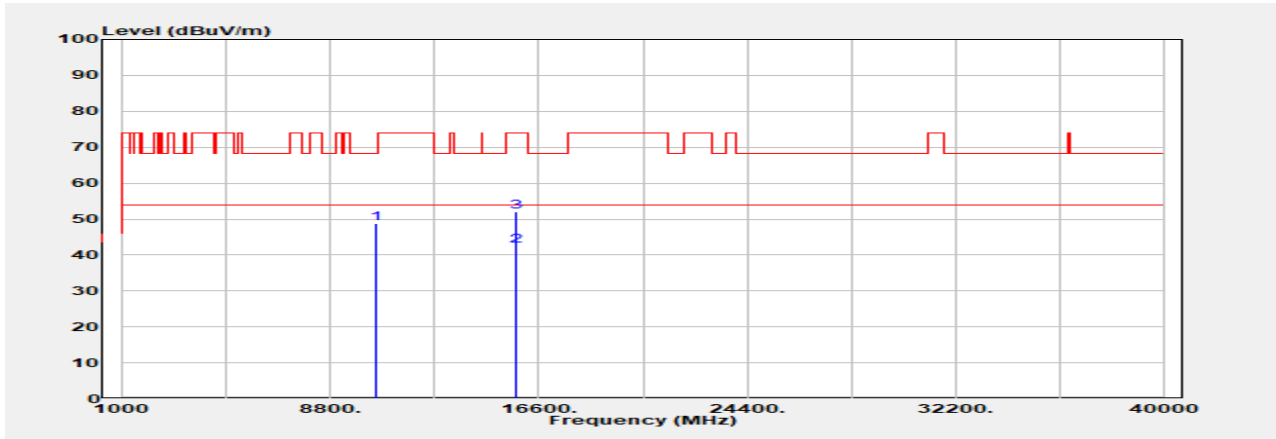
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Report Number :TERF2210002034E2  
Operation Mode :802.11n20  
Test Frequency :5240 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :HORIZONTAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.000	Peak	39.32	9.43	48.76	68.20	-19.44
15720.000	Average	30.98	11.49	42.47	54.00	-11.53
15720.000	Peak	40.49	11.49	51.98	74.00	-22.02

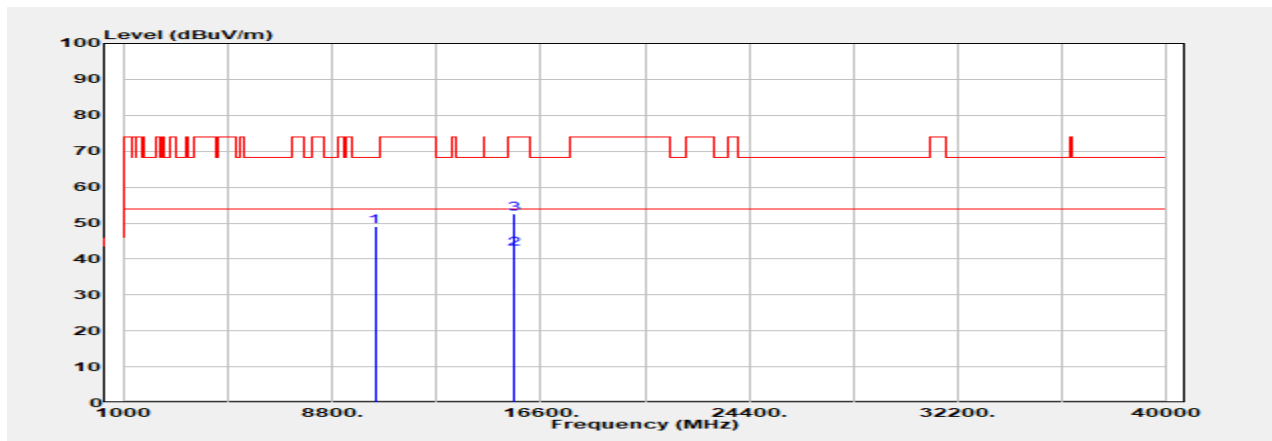
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Report Number :TERF2210002034E2  
Operation Mode :802.11n40  
Test Frequency :5190 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :VERTICAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10380.000	Peak	40.35	8.61	48.95	68.20	-19.25
15570.000	Average	30.53	12.18	42.71	54.00	-11.29
15570.000	Peak	40.35	12.18	52.53	74.00	-21.47

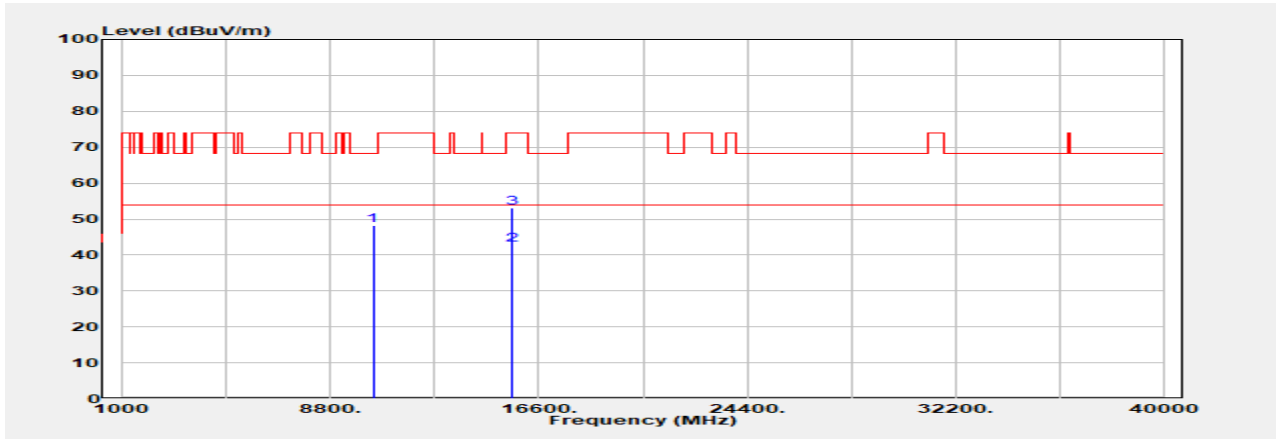
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Report Number :TERF2210002034E2  
Operation Mode :802.11n40  
Test Frequency :5190 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :HORIZONTAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10380.000	Peak	39.66	8.61	48.26	68.20	-19.94
15570.000	Average	30.62	12.18	42.81	54.00	-11.19
15570.000	Peak	41.03	12.18	53.22	74.00	-20.78

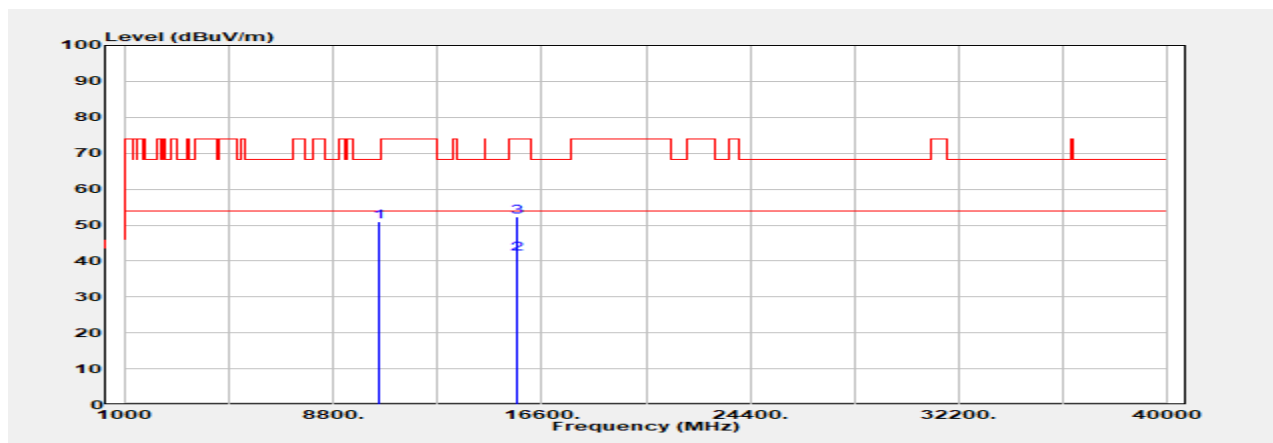
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Report Number :TERF2210002034E2  
Operation Mode :802.11n40  
Test Frequency :5230 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :VERTICAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10460.000	Peak	41.24	9.84	51.07	68.20	-17.13
15690.000	Average	30.17	11.75	41.92	54.00	-12.08
15690.000	Peak	40.43	11.75	52.18	74.00	-21.82

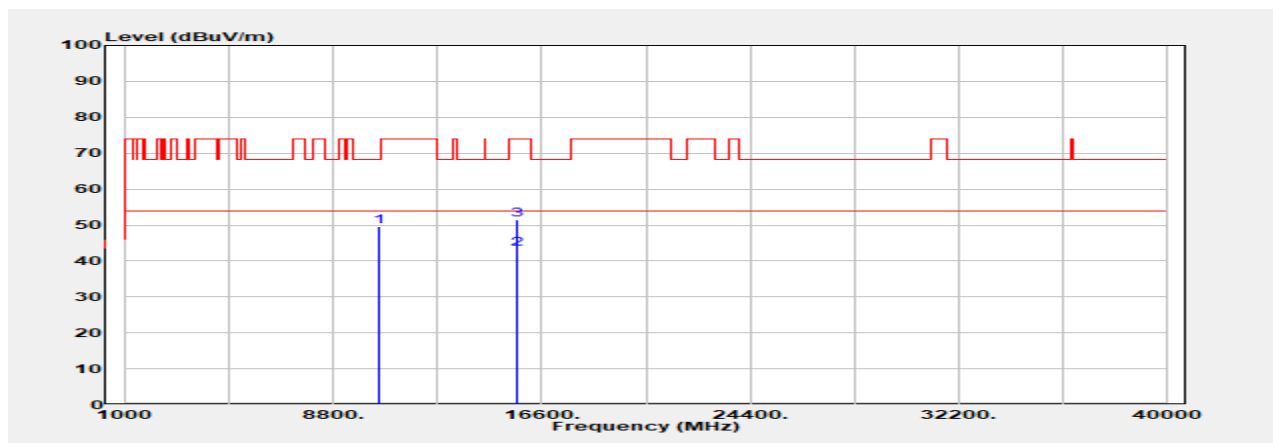
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Report Number :TERF2210002034E2  
Operation Mode :802.11n40  
Test Frequency :5230 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :HORIZONTAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10460.000	Peak	39.68	9.84	49.51	68.20	-18.69
15690.000	Average	31.66	11.75	43.41	54.00	-10.59
15690.000	Peak	39.73	11.75	51.48	74.00	-22.52

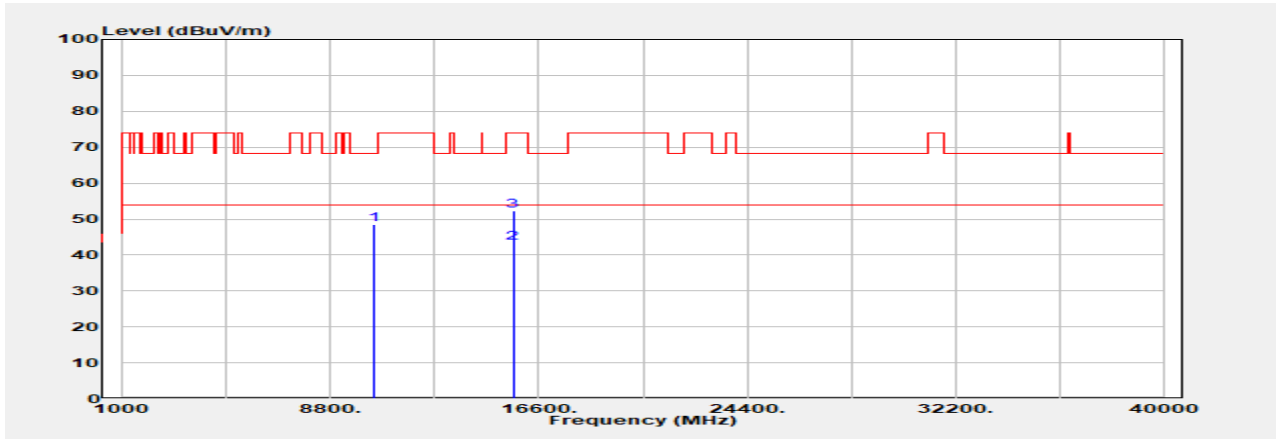
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Report Number :TERF2210002034E2  
Operation Mode :802.11ac80  
Test Frequency :5210 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :VERTICAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10420.000	Peak	39.59	8.96	48.55	68.20	-19.65
15630.000	Average	31.43	12.00	43.43	54.00	-10.57
15630.000	Peak	40.41	12.00	52.41	74.00	-21.59

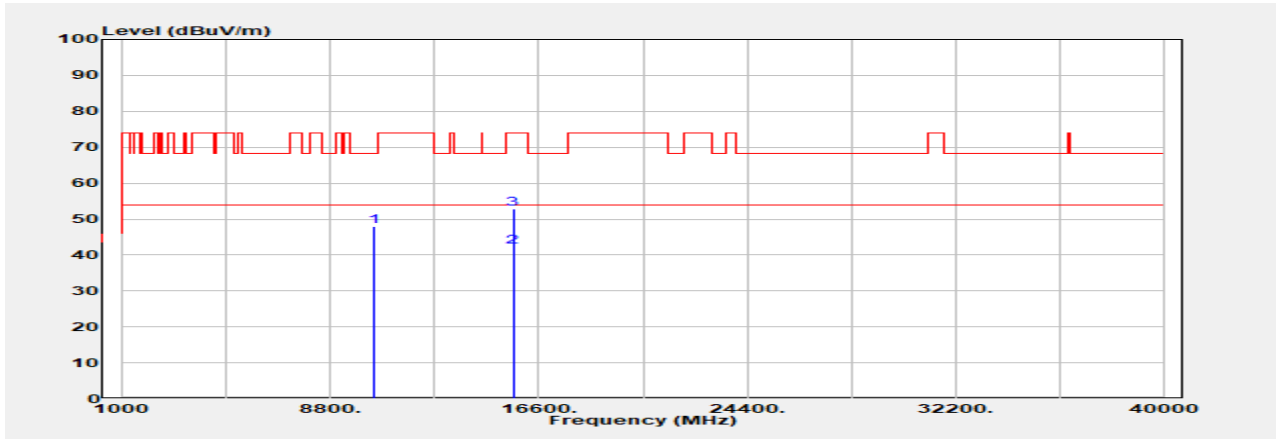
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Report Number :TERF2210002034E2  
Operation Mode :802.11ac80  
Test Frequency :5210 MHz  
Test Mode :Tx  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-12  
Temp./Humi. :21.9/68  
Antenna Pol. :HORIZONTAL  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10420.000	Peak	38.93	8.96	47.89	68.20	-20.31
15630.000	Average	30.23	12.00	42.23	54.00	-11.77
15630.000	Peak	40.91	12.00	52.91	74.00	-21.09

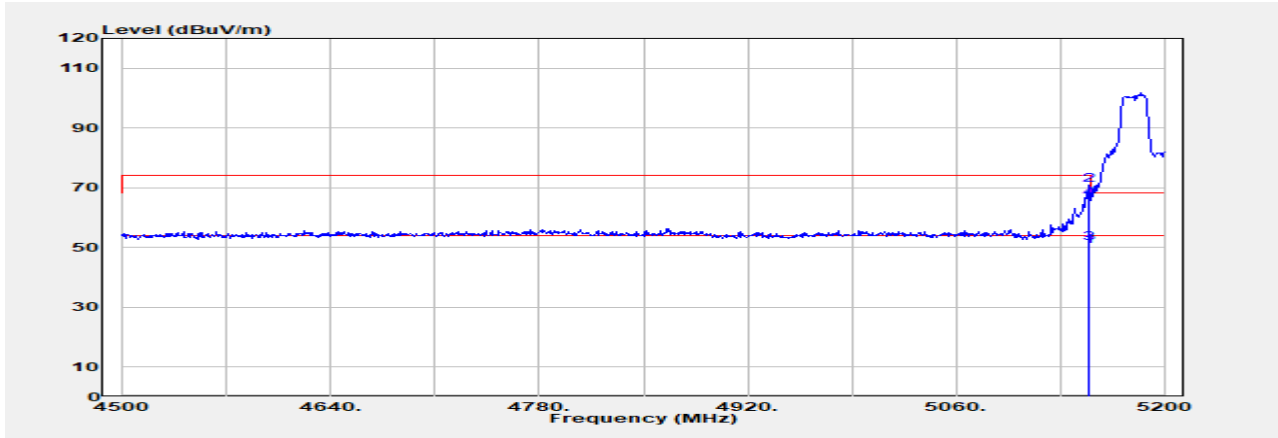
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### 7.7.2 Band edge falling to restricted band

Report Number	:TERF2210002034E2	Test Site	:SAC G
Operation Mode	:802.11a	Test Date	:2022-11-11
Test Frequency	:5180 MHz	Temp./Humi.	:20.8/64
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5149.600	Average	47.28	3.22	50.50	54.00	-3.50
5149.600	Peak	67.73	3.22	70.95	74.00	-3.05
5150.000	Average	48.25	3.23	51.48	54.00	-2.52
5150.000	Peak	63.00	3.23	66.23	74.00	-7.77

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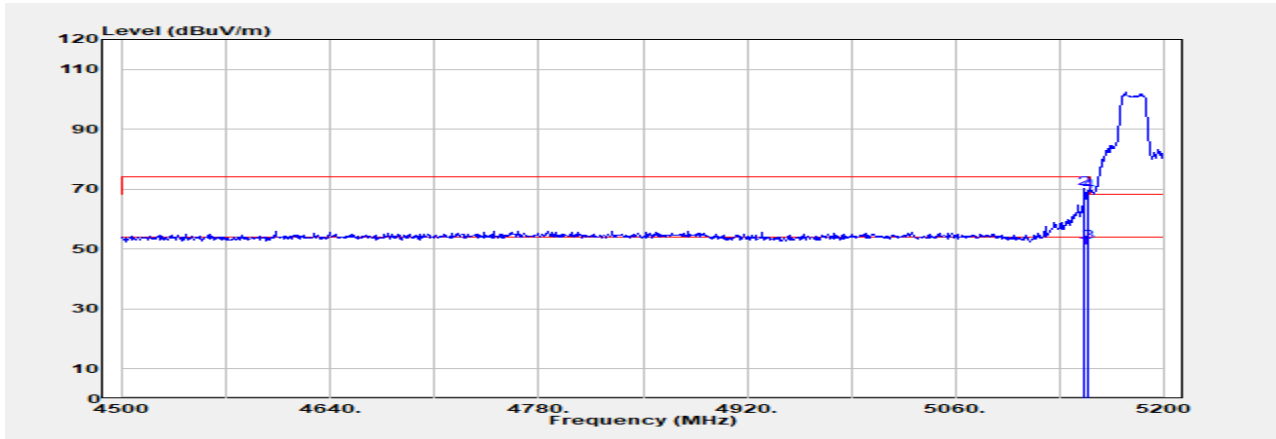
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Report Number :TERF2210002034E2  
Operation Mode :802.11a  
Test Frequency :5180 MHz  
Test Mode :Bandedge  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-11  
Temp./Humi. :20.8/64  
Antenna Pol. :Horizontal  
Engineer :Temo Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5146.800	Average	47.13	3.16	50.29	54.00	-3.71
5146.800	Peak	67.13	3.16	70.29	74.00	-3.71
5150.000	Average	49.07	3.23	52.30	54.00	-1.70
5150.000	Peak	66.19	3.23	69.42	74.00	-4.58

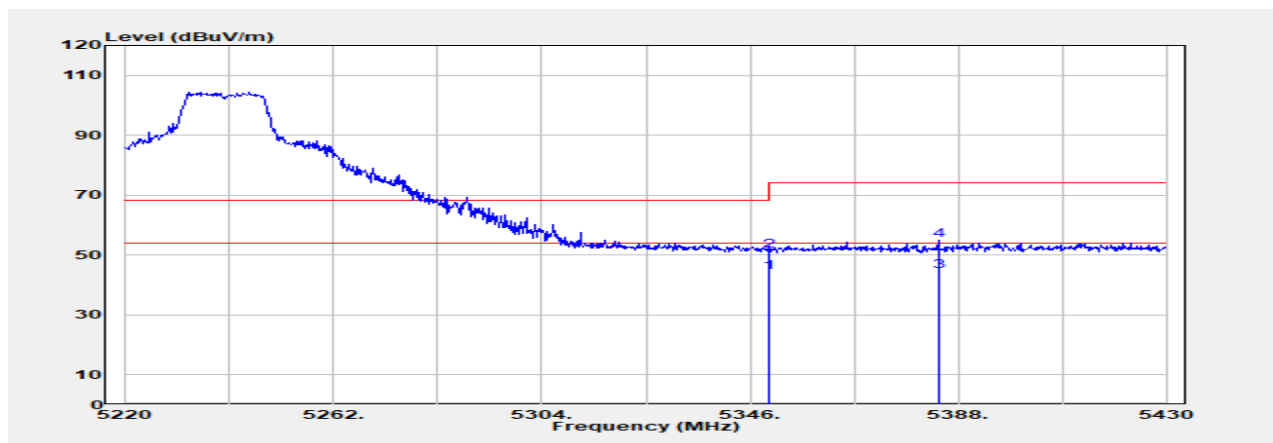
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Report Number :TERF2210002034E2  
Operation Mode :802.11a  
Test Frequency :5240 MHz  
Test Mode :Bandedge  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-21  
Temp./Humi. :20.6/67  
Antenna Pol. :Vertical  
Engineer :Temo Chen



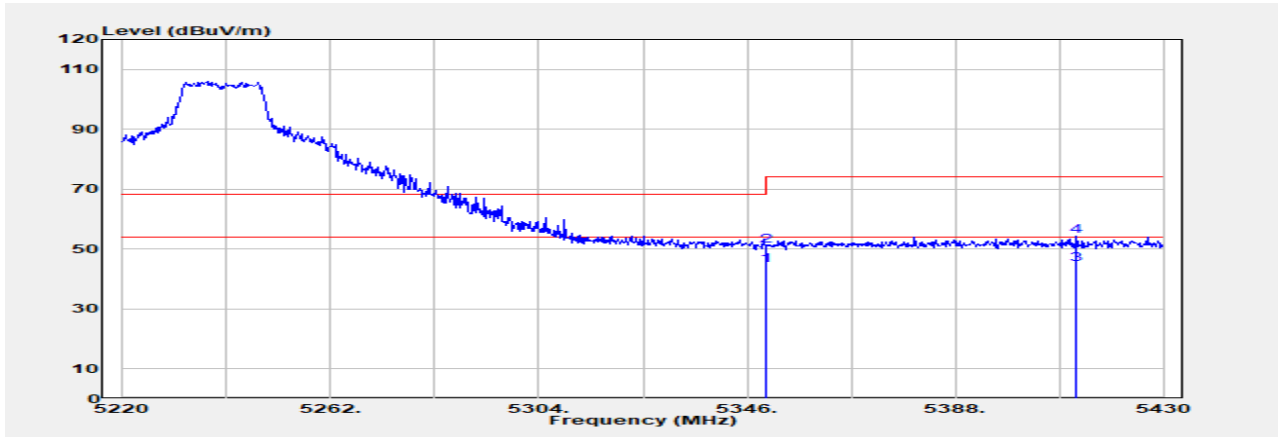
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.000	Average	41.82	2.51	44.33	54.00	-9.67
5350.000	Peak	48.95	2.51	51.46	74.00	-22.54
5384.010	Average	41.94	2.62	44.56	54.00	-9.44
5384.010	Peak	52.42	2.62	55.03	74.00	-18.97

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Report Number	:TERF2210002034E2	Test Site	:SAC G
Operation Mode	:802.11a	Test Date	:2022-11-21
Test Frequency	:5240 MHz	Temp./Humi.	:20.6/67
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode	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	41.93	2.51	44.44	54.00	-9.56
5350.000	Peak	48.40	2.51	50.91	74.00	-23.09
5412.570	Average	42.12	2.62	44.74	54.00	-9.26
5412.570	Peak	51.58	2.62	54.19	74.00	-19.81

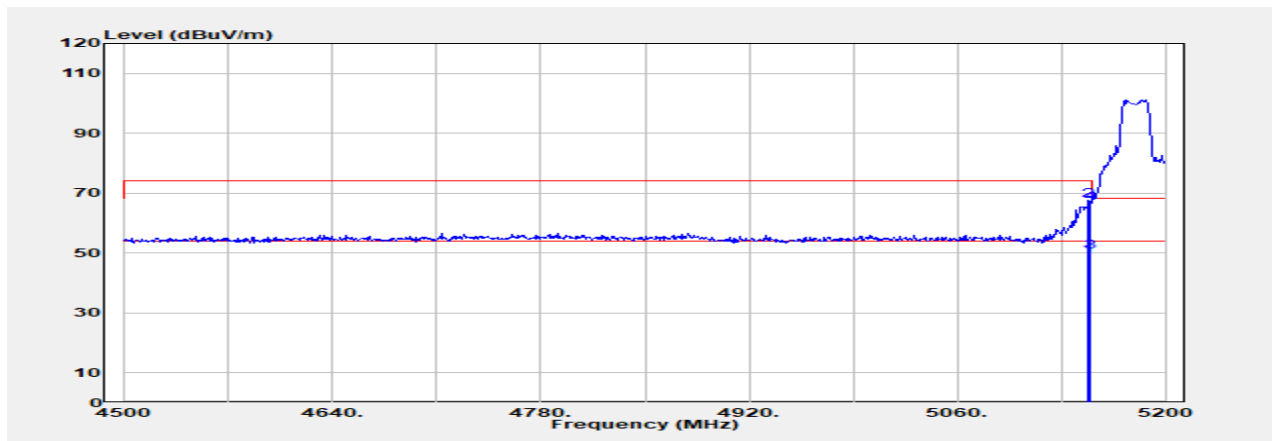
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Report Number :TERF2210002034E2  
Operation Mode :802.11n20  
Test Frequency :5180 MHz  
Test Mode :Bandedge  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-11  
Temp./Humi. :20.8/64  
Antenna Pol. :Vertical  
Engineer :Temo Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5148.200	Average	45.83	3.19	49.02	54.00	-4.98
5148.200	Peak	64.51	3.19	67.70	74.00	-6.30
5150.000	Average	47.15	3.23	50.38	54.00	-3.62
5150.000	Peak	63.43	3.23	66.66	74.00	-7.34

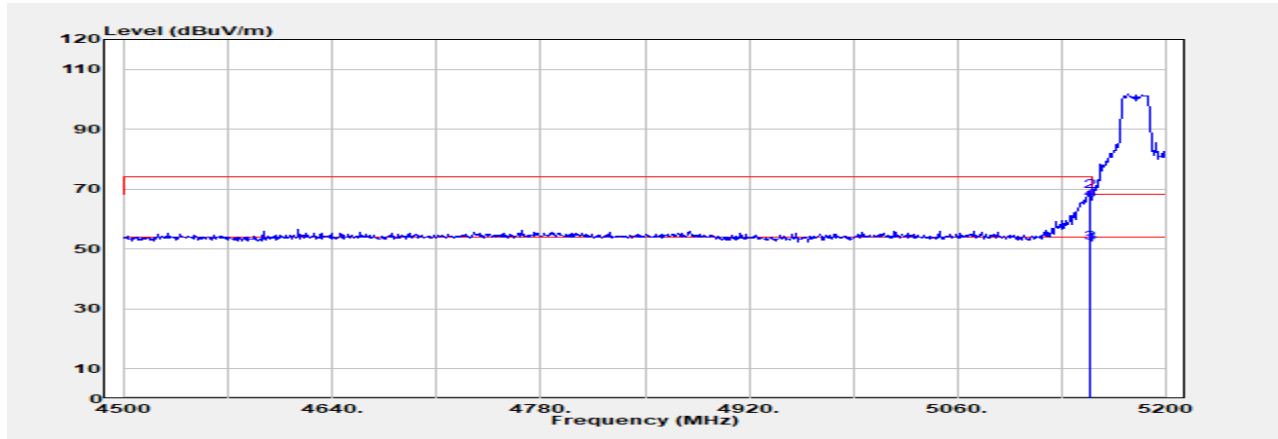
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Report Number :TERF2210002034E2  
Operation Mode :802.11n20  
Test Frequency :5180 MHz  
Test Mode :Bandedge  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-11  
Temp./Humi. :20.8/64  
Antenna Pol. :Horizontal  
Engineer :Temo Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5149.600	Average	48.32	3.22	51.54	54.00	-2.46
5149.600	Peak	66.01	3.22	69.23	74.00	-4.77
5150.000	Average	48.66	3.23	51.89	54.00	-2.11
5150.000	Peak	63.13	3.23	66.36	74.00	-7.64

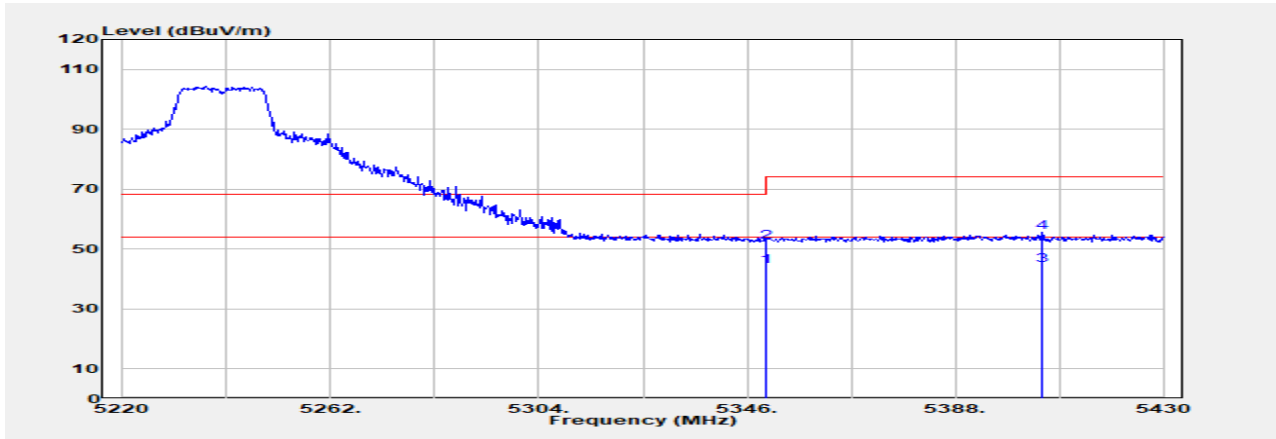
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Report Number :TERF2210002034E2  
Operation Mode :802.11n20  
Test Frequency :5240 MHz  
Test Mode :Bandedge  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-21  
Temp./Humi. :20.6/67  
Antenna Pol. :Vertical  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	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	41.78	2.51	44.29	54.00	-9.71
5350.000	Peak	50.00	2.51	52.51	74.00	-21.49
5405.430	Average	42.06	2.66	44.71	54.00	-9.29
5405.430	Peak	53.10	2.66	55.75	74.00	-18.25

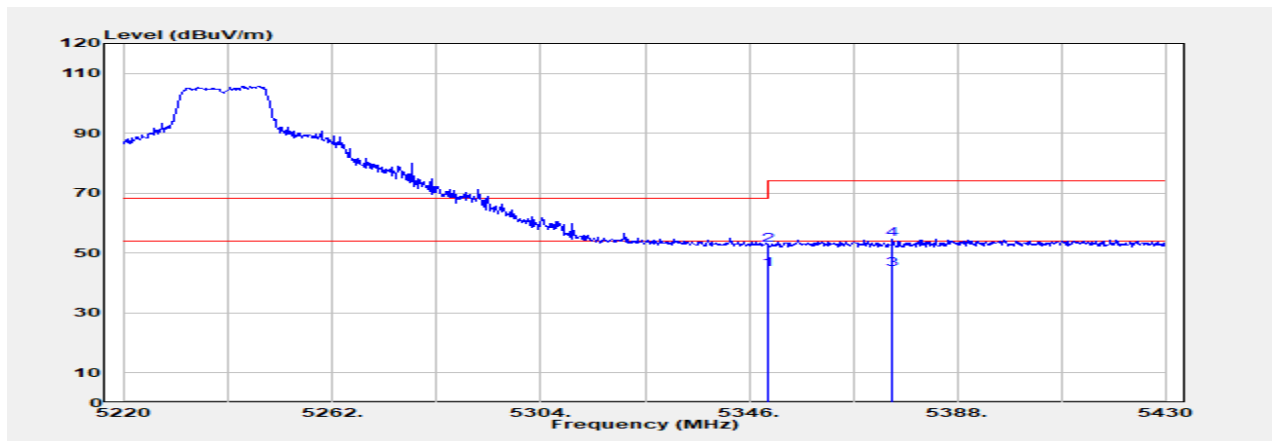
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Report Number :TERF2210002034E2  
Operation Mode :802.11n20  
Test Frequency :5240 MHz  
Test Mode :Bandedge  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-21  
Temp./Humi. :20.6/67  
Antenna Pol. :Horizontal  
Engineer :Temo Chen



Freq. MHz	Detector Mode	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	42.00	2.51	44.51	54.00	-9.49
5350.000	Peak	50.26	2.51	52.77	74.00	-21.23
5374.980	Average	42.04	2.53	44.57	54.00	-9.43
5374.980	Peak	52.22	2.53	54.75	74.00	-19.25

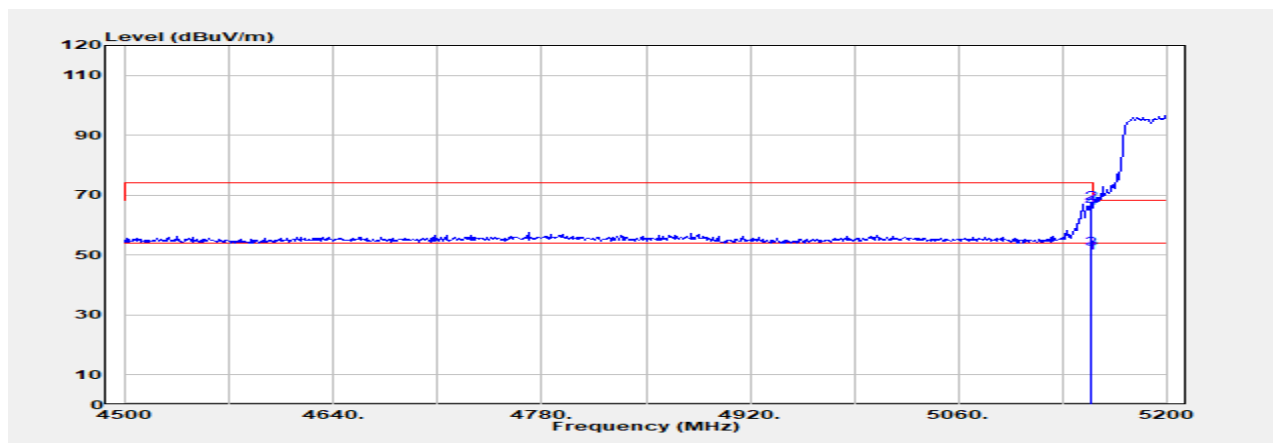
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Report Number :TERF2210002034E2  
Operation Mode :802.11n40  
Test Frequency :5190 MHz  
Test Mode :Bandedge  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-11  
Temp./Humi. :20.8/64  
Antenna Pol. :Vertical  
Engineer :Temo Chen



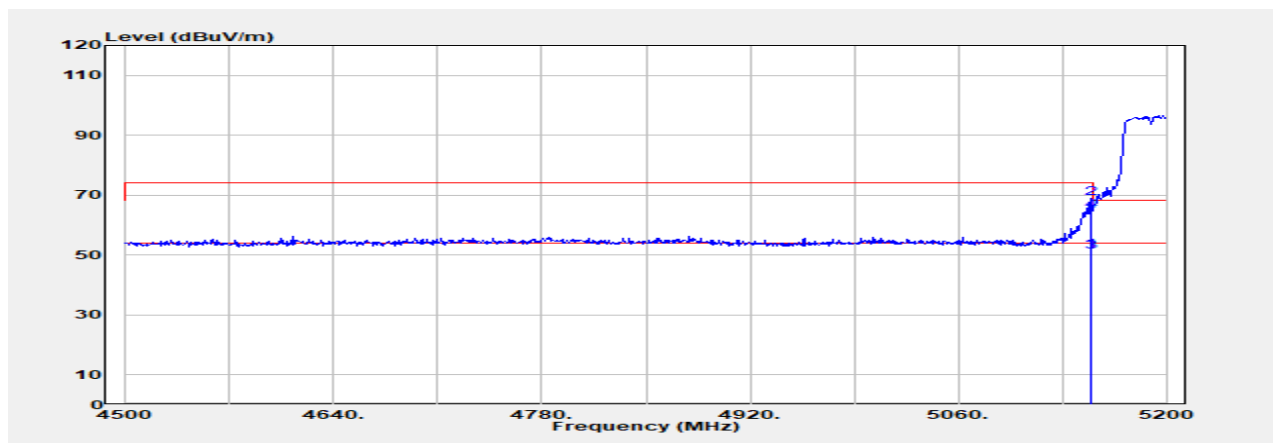
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5149.600	Average	47.41	3.22	50.63	54.00	-3.37
5149.600	Peak	64.07	3.22	67.29	74.00	-6.71
5150.000	Average	48.65	3.23	51.88	54.00	-2.13
5150.000	Peak	62.50	3.23	65.73	74.00	-8.27

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Report Number	:TERF2210002034E2	Test Site	:SAC G
Operation Mode	:802.11n40	Test Date	:2022-11-11
Test Frequency	:5190 MHz	Temp./Humi.	:20.8/64
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Temo Chen



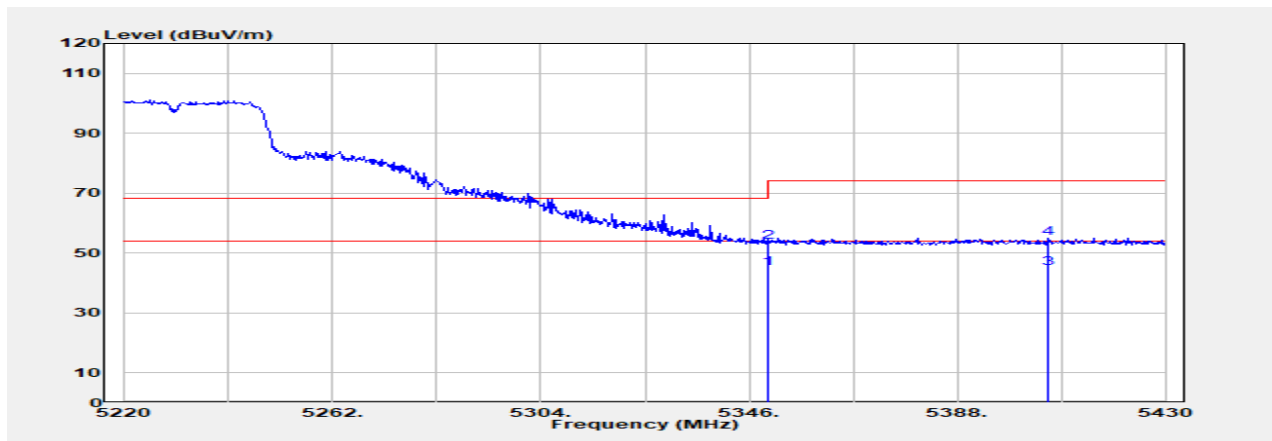
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5148.900	Average	48.14	3.21	51.35	54.00	-2.65
5148.900	Peak	65.67	3.21	68.87	74.00	-5.13
5150.000	Average	47.94	3.23	51.17	54.00	-2.83
5150.000	Peak	61.37	3.23	64.60	74.00	-9.40

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Report Number :TERF2210002034E2  
Operation Mode :802.11n40  
Test Frequency :5230 MHz  
Test Mode :Bandedge  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-21  
Temp./Humi. :20.6/67  
Antenna Pol. :Vertical  
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	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	42.34	2.51	44.85	54.00	-9.15
5350.000	Peak	51.10	2.51	53.61	74.00	-20.39
5406.480	Average	42.20	2.66	44.86	54.00	-9.14
5406.480	Peak	52.37	2.66	55.03	74.00	-18.97

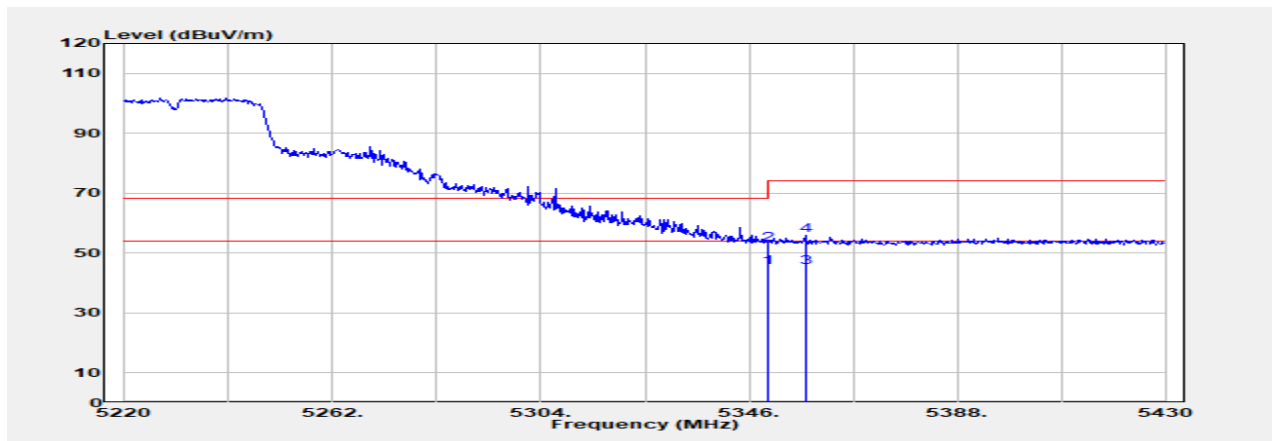
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Report Number :TERF2210002034E2  
Operation Mode :802.11n40  
Test Frequency :5230 MHz  
Test Mode :Bandedge  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-21  
Temp./Humi. :20.6/67  
Antenna Pol. :Horizontal  
Engineer :Temo Chen



Freq. MHz	Detector Mode	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	42.73	2.51	45.24	54.00	-8.76
5350.000	Peak	50.56	2.51	53.07	74.00	-20.93
5357.340	Average	42.69	2.49	45.17	54.00	-8.83
5357.340	Peak	53.35	2.49	55.84	74.00	-18.16

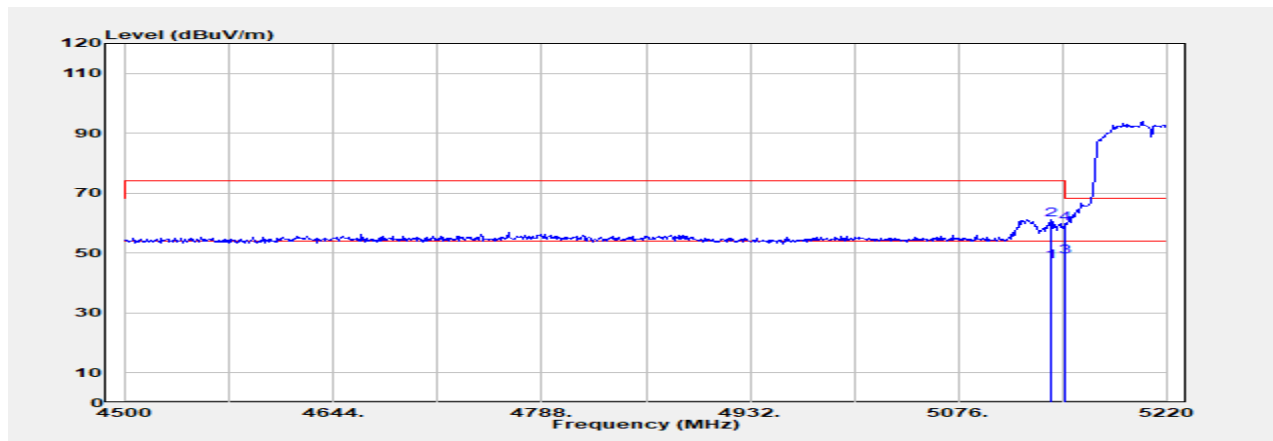
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Report Number :TERF2210002034E2  
Operation Mode :802.11ac80  
Test Frequency :5210 MHz  
Test Mode :Bandedge  
EUT Pol :H Plane

Test Site :SAC G  
Test Date :2022-11-11  
Temp./Humi. :20.8/64  
Antenna Pol. :Vertical  
Engineer :Temo Chen



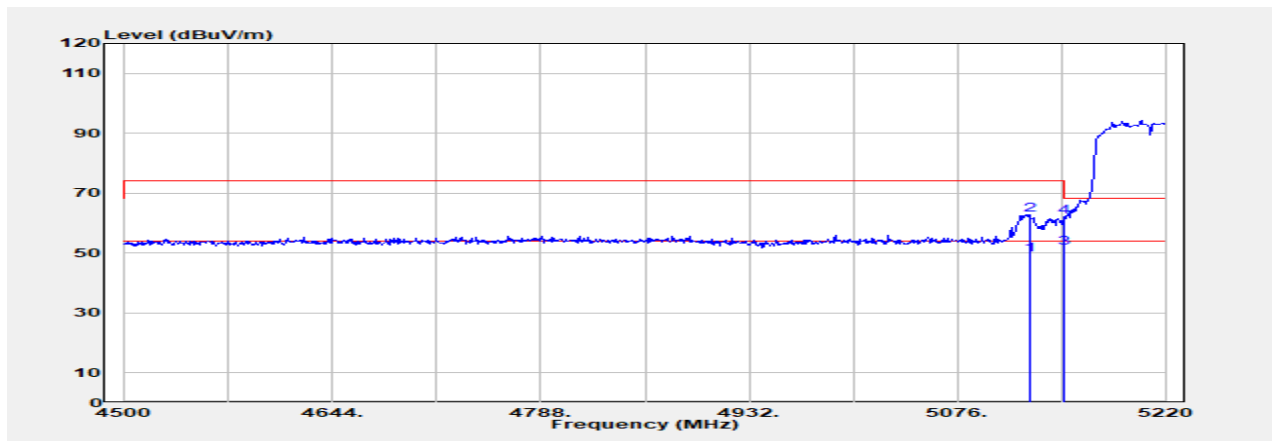
Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5140.800	Average	44.04	3.03	47.07	54.00	-6.93
5140.800	Peak	57.98	3.03	61.01	74.00	-12.99
5150.000	Average	45.50	3.23	48.73	54.00	-5.27
5150.000	Peak	56.48	3.23	59.71	74.00	-14.29

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Report Number	:TERF2210002034E2	Test Site	:SAC G
Operation Mode	:802.11ac80	Test Date	:2022-11-11
Test Frequency	:5210 MHz	Temp./Humi.	:20.8/64
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5126.400	Average	46.72	2.87	49.59	54.00	-4.41
5126.400	Peak	60.04	2.87	62.92	74.00	-11.08
5150.000	Average	48.32	3.23	51.55	54.00	-2.45
5150.000	Peak	58.98	3.23	62.21	74.00	-11.79

~ End of Report ~

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