

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari, Nagaokakyo-shi, Kyoto 617-8555 Ja-
pan

Manufacturer: Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari, Nagaokakyo-shi, Kyoto 617-8555 Ja-
pan

Product Name: Communication Module

Brand Name: muRata

Model No.: LBEE5ZZ1XL, LBEE5ZZ2XS

Model Difference: Refer to section 1.10

Report Number: TERF2305001165E2

FCC ID VPYLBEE5ZZ1XL

Date of EUT Received: N/A, the test results are fully leveraged from test report num-
ber: TERF2211002151E2

Date of Test: N/A, the test results are fully leveraged from test report num-
ber: TERF2211002151E2

Issue Date: May 04, 2023

Approved By _____

Jay Lin

We hereby certify that:

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2305001165E2	00	Initial	May 04, 2023	Yami Kuo	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, please refer to section 1.10 of this report for details.
Test results of this report are applicable to the sample EUT(s) received and variant models are assessed as electrically identical, no further tests are required for the variant.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Communication Module
Brand Name:	muRata
Model No.:	LBEE5ZZ1XL, LBEE5ZZ2XS
Model Difference:	Refer to section 1.10
Hardware Version:	1
Firmware Version:	1.1.1.1
EUT Series No.:	1XL: Sample. No2
Power Supply:	3.3Vdc, 1.8Vdc
Test Software (Name/Version)	Tera Term V4.105 / Dut labtool v2.0.0.85

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac
	256QAM, 1024QAM for OFDMA in 802.11ax
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: up to 144.4 Mbps
	802.11 n_40MHz: up to 300 Mbps
	802.11 ac_20MHz: up to 173.4 Mbps
	802.11 ac_40MHz: up to 400 Mbps
	802.11 ax_20MHz: up to 286.8 Mbps
	802.11 ax_40MHz: up to 573.6 Mbps
	802.11 ax_80MHz: up to 1201 Mbps

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1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Dipole	5150~5250	4.25	7.26
	5250~5350	4.25	7.26
	5475~5725	4.25	7.26
	5725~5850	4.25	7.26

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/ n_HT/ ac_VHT/ ax_HE 20M	5180~5240	4	19.94 dBm	OFDMA
	5260~5320	4	21.94 dBm	OFDM
	5500~5720	12	19.42 dBm	OFDM
n_HT ac_VHT/ ax_HE 40M	5190~5230	2	14.82 dBm	OFDMA
	5270~5310	2	18.90 dBm	OFDM
	5510~5710	6	18.92 dBm	OFDM
ac_VHT/ ax_HE 80M	5530~5690	3	19.90 dBm	OFDMA
	5775	1	18.90 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
 FCC KDB 291074 D02 EMC Measurement v01
 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 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	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
Conducted F				
Conducted G				

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

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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1.9 Model difference

LBEE5ZZ1XL has a dedicated antenna port for BT.

LBEE5ZZ2XS BT shares same antenna port with WLAN.

Some passive components are different between models as below

LBEE5ZZ1XL	LBEE5ZZ2XS
C 336 No mounted	C336 mounted
C337 mounted	C337 No mounted
L310 mounted	L310 Nomounted

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

The EUT is a 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

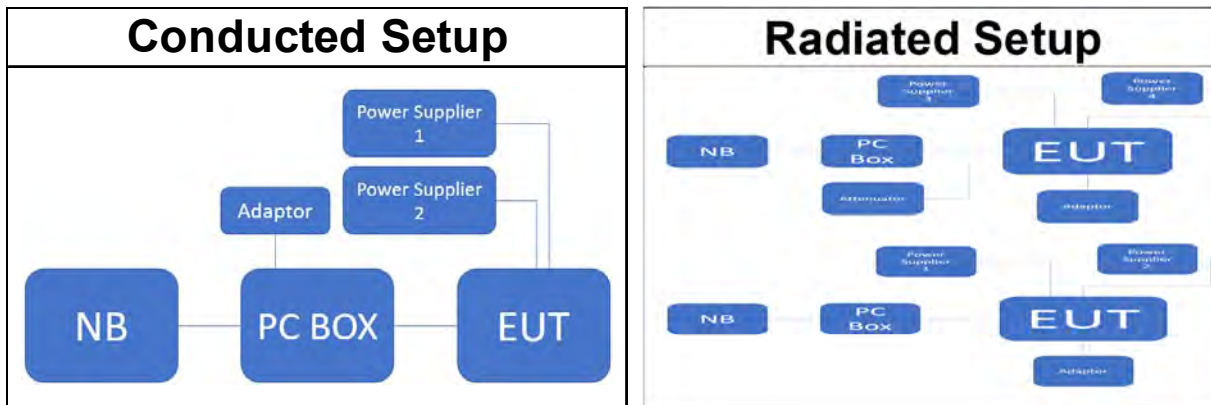
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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.
Notebook	Lenovo	T420	S0012599	N/A	N/A
Notebook	Lenovo	L420	S0011721	N/A	N/A

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LAN Cable	向聯	VPH-02	1500021123	N.C.R	N.C.R
LAN Cable	INVAX	IVX011	N/A	N.C.R	N.C.R
Notebook	Lenovo	T470	P0001293	N/A	N/A
Notebook	Lenovo	T420	S0012599	N/A	N/A
Adapter	APD	NB-65B19	N/A	N/A	N/A
Adapter	FSP	FSP065-REBN2	H6081012364	N.C.R	N.C.R

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3 SUMMARY OF TEST RESULT

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

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2211002151E2.

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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				

Operated band in 5250 MHz ~5350 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

Operated band in 5470 MHz ~5725 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

Operated band in 5725 MHz ~5850 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

Note:

- 5850~5895 MHz is not available for operation in Canada.**

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4.2 The Worst Test Modes and Channel Details

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

Modulation		Transmission Chain							Single Transmission Spatial	Multiple Transmission Spatial		
v	802.11 a	v	Ch0	v	Ch1		Ch2		Ch3	1TX	v	2TX
v	802.11 n	v	Ch0	v	Ch1		Ch2		Ch3	SISO	v	MIMO
v	802.11 ac	v	Ch0	v	Ch1		Ch2		Ch3	SISO	v	MIMO
v	802.11 ax	v	Ch0	v	Ch1		Ch2		Ch3	SISO	v	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.

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500-5720	100 to 144	116	OFDM	6	2TX
802.11n_HT20	5180-5240	36 to 48	40	OFDM	MCS0	2TX
	5500-5720	100 to 144	116			
802.11n_HT40	5270-5310	54 to 62	54	OFDM	MCS0	2TX
	5510-5710	102 to 142	110,134			

RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATIO	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180-5240	36 to 48	36,40	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53	MCS0	2TX
	5260-5320	52 to 64	64				
	5500-5720	100 to 144	116,140				
802.11ax_HE40	5510-5710	102 to 142	110	OFDMA	Full RU	MCS0	2TX
802.11ax_HE80	5775	155	155	OFDMA	484/66	MCS0	2TX

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CONDUCTED TEST						
MODE	FREQUENC Y BAND	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATIO N	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5720	100 to 144	116	OFDM	6	2TX
802.11n_HT20	5180~5240	36 to 48	40	OFDM	MCS0	2TX
	5500~5720	100 to 144	116			
802.11n_HT40	5270~5310	54 to 62	54	OFDM	MCS0	2TX
	5510~5670	102 to 142	110,134			

CONDUCTED TEST							
MODE	FREQUENC Y BAND	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATIO N	RU CONFIGURA	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	36,40	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53	MCS0	2TX
	5260~5320	52 to 64	64				
	5500~5720	100 to 144	116,140				
802.11ax_HE40	5510~5710	102 to 142	110	OFDMA	FULL RU	MCS0	2TX
802.11ax_HE80	5775	155	155	OFDMA	484/66	MCS0	2TX

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
AC Power Line Conducted Emission	+/- 2.34 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak Power Density	+/- 1.62 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

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

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/20/2022	06/19/2023
Power Meter	Anritsu	ML2496A	1512003	07/26/2022	07/25/2023
Power Sensor	Anritsu	MA2411B	1339378	07/26/2022	07/25/2023
Power Sensor	Anritsu	MA2411B	1339379	07/26/2022	07/25/2023
DC Power Supply	Agilent	E3640A	MY53130054	09/29/2022	09/28/2023
DC Power Supply	Agilent	E3640A	MY53140006	05/16/2022	05/15/2023
DC Power Supply	HOLA	DP-3003	D7070035	06/09/2022	06/08/2023
DC Power Supply	Gwinstek	SPS-3610	GEV856767	09/29/2022	09/28/2023
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Marvelous	MVE2213-10	RF13	11/16/2022	11/15/2023
Attenuator	Woken	WATT-218FS-10	RF15	11/16/2022	11/15/2023
Attenuator	KEYSIGHT	11716C	8494B TH60075424+8496B TH6075262	11/16/2022	11/15/2023
Coupler	MIDISCO52335	MDC2044-20	RF36	11/16/2022	11/15/2023
DC Block	PASTERNAK	PE8210	RF158	11/16/2022	11/15/2023
Splitter	Marvelous	MVE8576	RF256	11/16/2022	11/15/2023
Switch E-Channel	E-Channel	ETF-1801 RF Switch	EC2100175	11/16/2022	11/15/2023
Coaxial Cables	Woken	00100A1F2A196C	RF62	11/16/2022	11/15/2023
Coaxial Cables	Woken	00100A1F2A196C	RF64	11/16/2022	11/15/2023
Coaxial Cables	Woken	00100A1F1A185C	RF71	11/16/2022	11/15/2023

6.2 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/11/2022	11/10/2023
Horn Antenna	Schwarzbeck	BBHA9170	185	08/22/2022	08/21/2023
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/31/2022	05/30/2023
Loop Antenna	ETS.LINDGREN	6502	143303	05/14/2022	05/13/2023
3m Site NSA	SGS	966 chamber D	N/A	04/30/2022	04/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/24/2022	03/23/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
DC Power Supply	Agilent	E3640A	MY53130054	09/29/2022	09/28/2023
DC Power Supply	Agilent	E3640A	MY53140006	05/16/2022	05/15/2023
DC Power Supply	Gwinstek	SPS-3610	GEV856769	09/29/2022	09/28/2023
DC Power Supply	Gwinstek	SPS-3610	GEV856767	09/29/2022	09/28/2023
Pre-Amplifier	EMC Instruments	EM26400	971576	10/02/2022	10/01/2023
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/16/2022	11/15/2023
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/16/2022	11/15/2023
Attenuator	Woken	WATT-218FS-10	RF17	11/16/2022	11/15/2023
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/16/2022	11/15/2023
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/16/2022	11/15/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/16/2022	11/15/2023

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

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7 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

7.1.1 Duty Cycle

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

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

7.1.2 Output Power

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	V	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	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	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 directional gain of the antenna.

2. For the 10 log B, B is the 26 dB emission bandwidth.

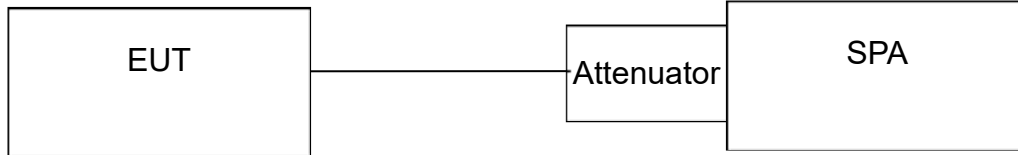
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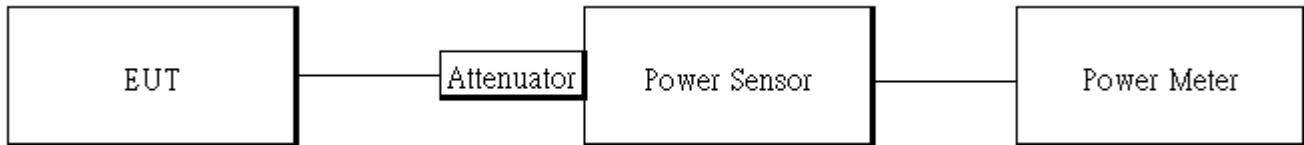
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7.2 Test Setup

7.2.1 Duty Cycle



7.2.2 Output Power



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7.3 Measurement Procedure

7.3.1 Duty Cycle Measurements

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

7.3.2 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/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

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

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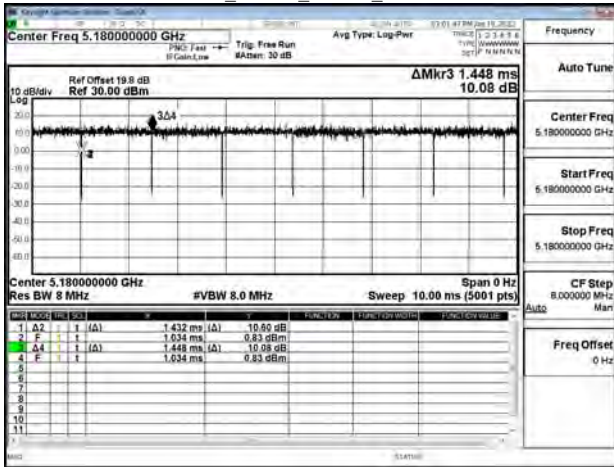
7.4 Duty Cycle Measurement Result

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	98.90	0.05	0.70	0.01
802.11n_20	98.02	0.09	1.45	0.01
802.11ac_20	98.04	0.09	1.43	0.01
802.11n_40	96.22	0.17	2.81	3.00
802.11ac_40	96.26	0.17	2.78	3.00
802.11ac_80	92.31	0.35	5.21	6.00
802.11ax_20	97.54	0.11	1.80	2.00
802.11ax_40	95.63	0.19	3.27	4.00
802.11ax_80	92.71	0.33	5.62	6.00

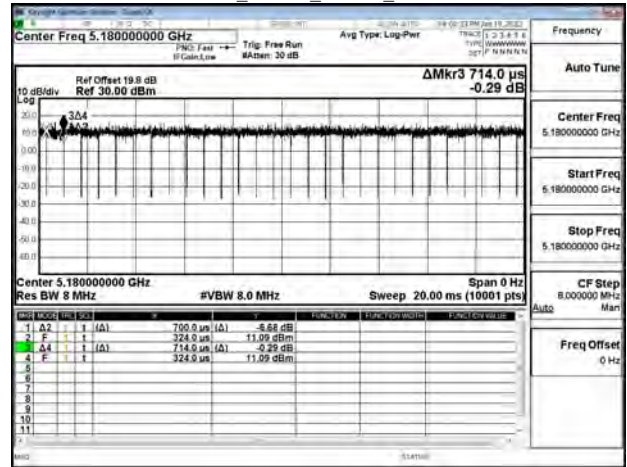
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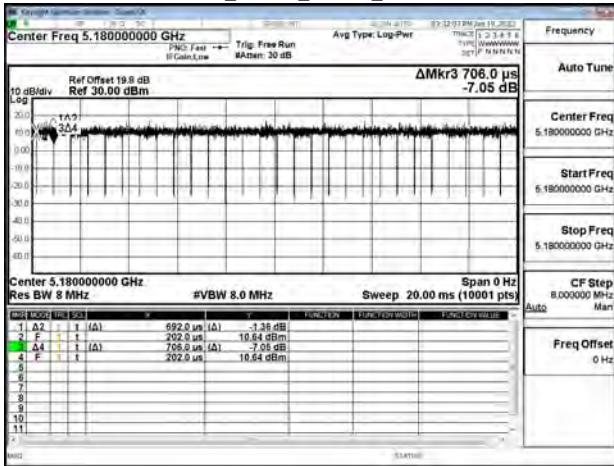
802.11a_20MHz_Chain0_5180MHz



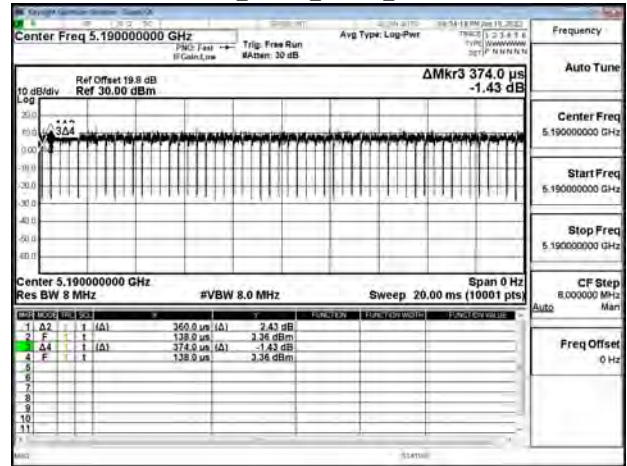
802.11ac_20MHz_Chain0_5180MHz



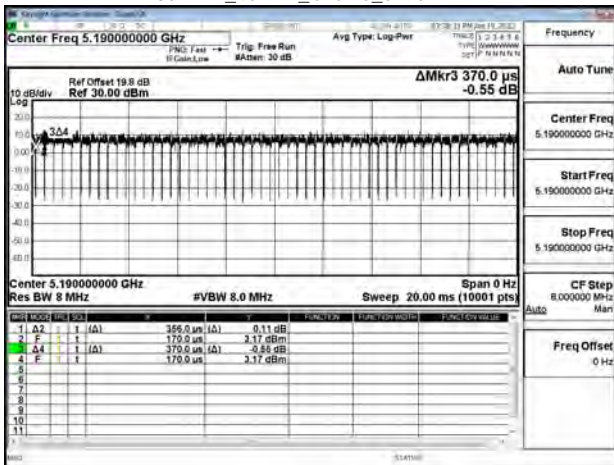
802.11n_20MHz_Chain0_5180MHz



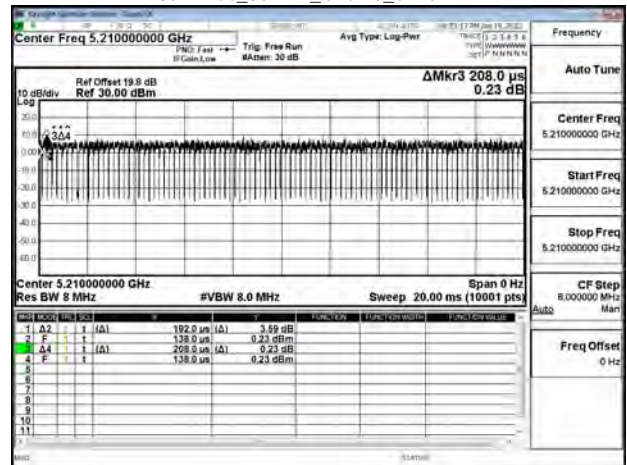
802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz

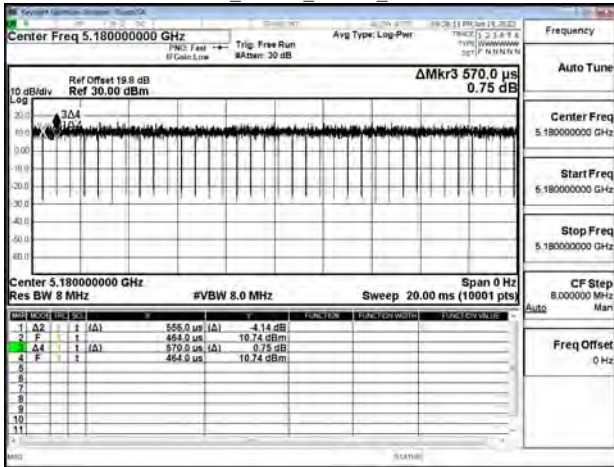


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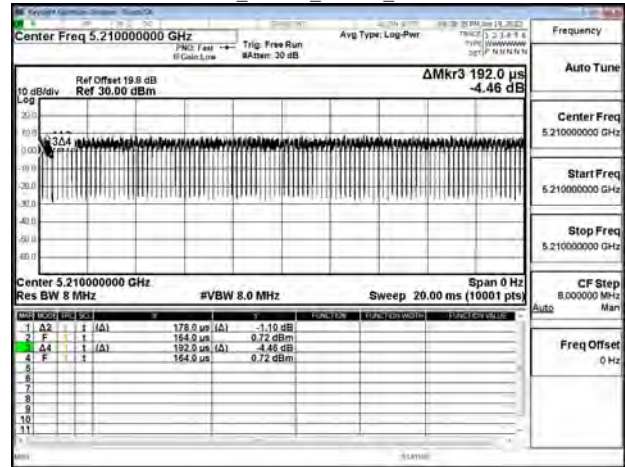
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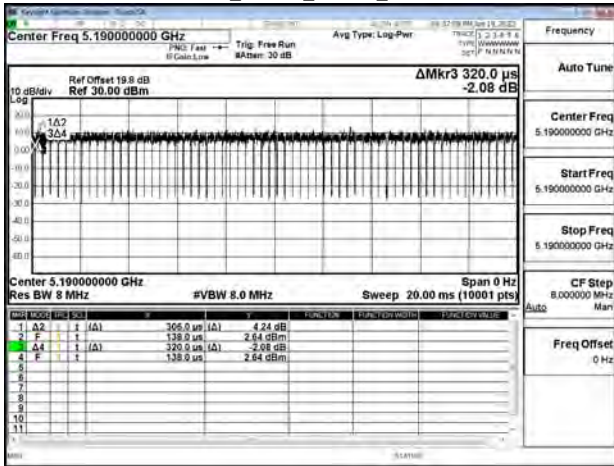
802.11ax_20MHz_Chain0_5180MHz



802.11ax_80MHz_Chain0_5210MHz



802.11ax_40MHz_Chain0_5190MHz



7.5 Output Power Measurement Result

7.5.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
116	5580	6	15.5	15.84	38.353	23.94	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
116	5580	6	15.5	15.78	37.827	23.84	PASS

802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
116	5580	6	17	15.96	15.85	18.91	77.870	22.72	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
40	5200	MCS0	16.5	16.83	48.160	23.98	PASS
116	5580	MCS0	15.5	15.84	38.343	23.98	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
40	5200	MCS0	16.5	16.78	47.609	23.98	PASS
116	5580	MCS0	15.5	15.78	37.817	23.98	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
40	5200	MCS0	17	16.94	16.79	19.87	97.114	22.72	PASS
116	5580	MCS0	17.5	15.92	15.82	18.88	77.223	22.72	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
40	5200	MCS0	17	16.75	47.271	23.98	PASS
116	5580	MCS0	16	15.79	37.896	23.98	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
40	5200	MCS0	17	16.70	46.730	23.98	PASS
116	5580	MCS0	16	15.73	37.376	23.98	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
40	5200	MCS0	17	16.89	16.75	19.83	96.091	22.72	PASS
116	5580	MCS0	15.5	15.87	15.77	18.83	76.323	22.72	PASS

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802.11ax_HE20_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	13.75	13.88	24.424	23.98	PASS
		MCS0	26/0	10.75	10.78	11.962	23.98	PASS
		MCS0	106/53	16.25	13.89	24.480	23.98	PASS
40	5200	MCS0	full	16	16.86	48.508	23.98	PASS
64	5320	MCS0	26/8	9.25	9.79	9.524	23.98	PASS
		MCS0	52/40	11.25	11.76	14.991	23.98	PASS
116	5580	MCS0	full	15.5	15.88	38.709	23.98	PASS
140	5700	MCS0	full	13.75	13.90	24.537	23.98	PASS
		MCS0	52/40	13.5	10.86	12.185	23.98	PASS

802.11ax_HE20_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	13.75	13.82	24.089	23.98	PASS
		MCS0	26/0	11	10.76	11.907	23.98	PASS
		MCS0	106/53	17	13.81	24.034	23.98	PASS
40	5200	MCS0	full	16	16.77	47.514	23.98	PASS
64	5320	MCS0	26/8	9.5	9.77	9.480	23.98	PASS
		MCS0	52/40	11.5	11.73	14.887	23.98	PASS
116	5580	MCS0	full	15.5	15.83	38.266	23.98	PASS
140	5700	MCS0	full	15.5	13.84	24.200	23.98	PASS
		MCS0	52/40	13.5	10.79	11.990	23.98	PASS

802.11ax_HE20_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
36	5180	MCS0	full	14.25	14.01	13.78	16.90	49.034	22.72	PASS
		MCS0	26/0	12.5	10.86	10.73	13.80	24.010	22.72	PASS
		MCS0	106/53	15.75	13.96	13.85	16.91	49.134	22.72	PASS
40	5200	MCS0	full	16.5	16.97	16.90	19.94	98.710	22.72	PASS
64	5320	MCS0	26/8	12.5	9.88	9.73	12.81	19.117	22.72	PASS
		MCS0	52/40	14.5	11.84	11.70	14.78	30.054	22.72	PASS
116	5580	MCS0	full	15.5	15.97	15.81	18.90	77.611	22.72	PASS
140	5700	MCS0	full	13.75	14.01	13.86	16.94	49.478	22.72	PASS
		MCS0	52/40	13	10.96	10.87	13.92	24.681	22.72	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	MCS0	15.5	15.90	38.881	23.98	PASS
110	5550	MCS0	14.5	14.88	30.742	23.98	PASS
134	5670	MCS0	15.75	15.90	38.881	23.98	PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	MCS0	15.5	15.84	38.347	23.98	PASS
110	5550	MCS0	14.5	14.82	30.320	23.98	PASS
134	5670	MCS0	15.75	15.84	38.347	23.98	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
54	5270	MCS0	16	16.02	15.77	18.90	77.704	22.72	PASS
110	5550	MCS0	15	15.05	14.79	17.93	62.081	22.72	PASS
134	5670	MCS0	16	15.97	15.86	18.92	78.037	22.72	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	MCS0	16	15.84	38.333	23.98	PASS
110	5550	MCS0	14.5	14.84	30.449	23.98	PASS
134	5670	MCS0	16.25	15.84	38.333	23.98	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	MCS0	16	15.60	36.272	23.98	PASS
110	5550	MCS0	14.5	14.62	28.945	23.98	PASS
134	5670	MCS0	16.25	15.61	36.355	23.98	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
54	5270	MCS0	16.75	15.97	15.76	18.87	77.131	22.72	PASS
110	5550	MCS0	15	14.99	14.80	17.90	61.688	22.72	PASS
134	5670	MCS0	16	16.03	15.80	18.92	78.028	22.72	PASS

802.11ax_HE40_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
110	5550	MCS0	full	15	14.87	30.719	23.98	PASS

802.11ax_HE40_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
110	5550	MCS0	full	15	14.82	30.367	23.98	PASS

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802.11ax_HE40_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
110	5550	MCS0	full	14.5	14.92	14.82	17.88	49.431	22.72	PASS

802.11ax_HE80_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
155	5775	MCS0	484/66	17.75	15.84	38.360	30	PASS

802.11ax_HE80_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
155	5775	MCS0	484/66	18.5	15.77	37.746	30	PASS

802.11ax_HE80_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
155	5775	MCS0	484/66	17.25	15.96	15.82	18.90	77.618	28.74	PASS

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8 UNDESIRABLE RADIATED EMISSION MEASUREMENT

8.1 Standard Applicable

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

8.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dB μ V/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1)	5150~5250	$f \leq 5150$	PK: -27	PK: 68.2
15.407(b)(2)	5250~5350	$f \geq 5350$		
15.407(b)(3)	5475~5725	$f \leq 5470$ $f \geq 5725$		
15.407(b)(4)(i)	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

8.1.2 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.

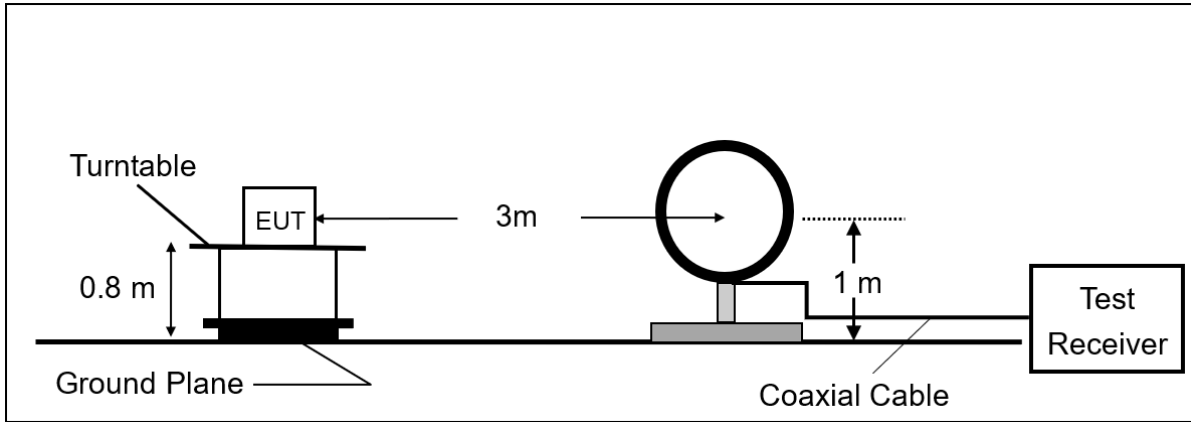
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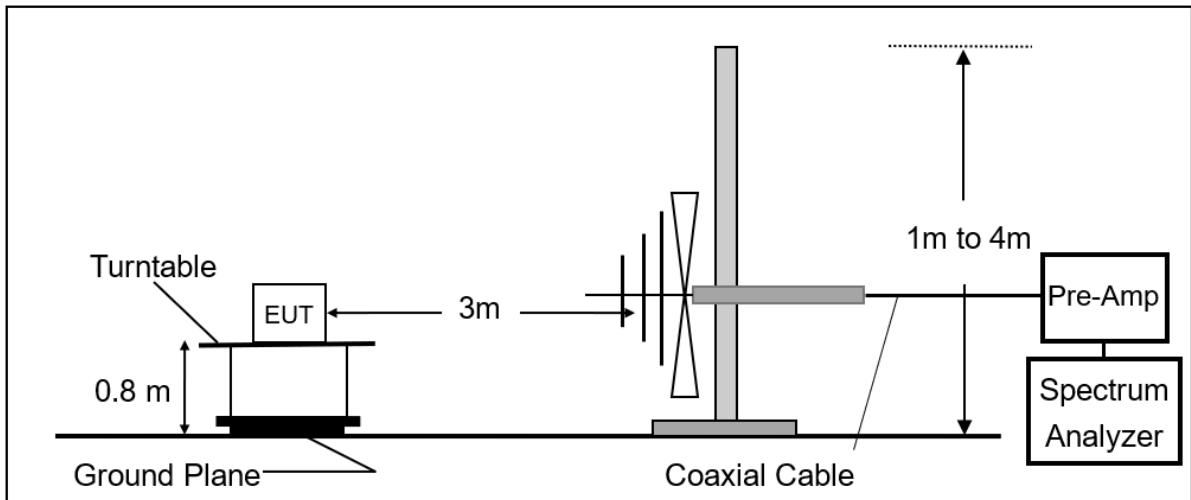
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8.2 Test Setup

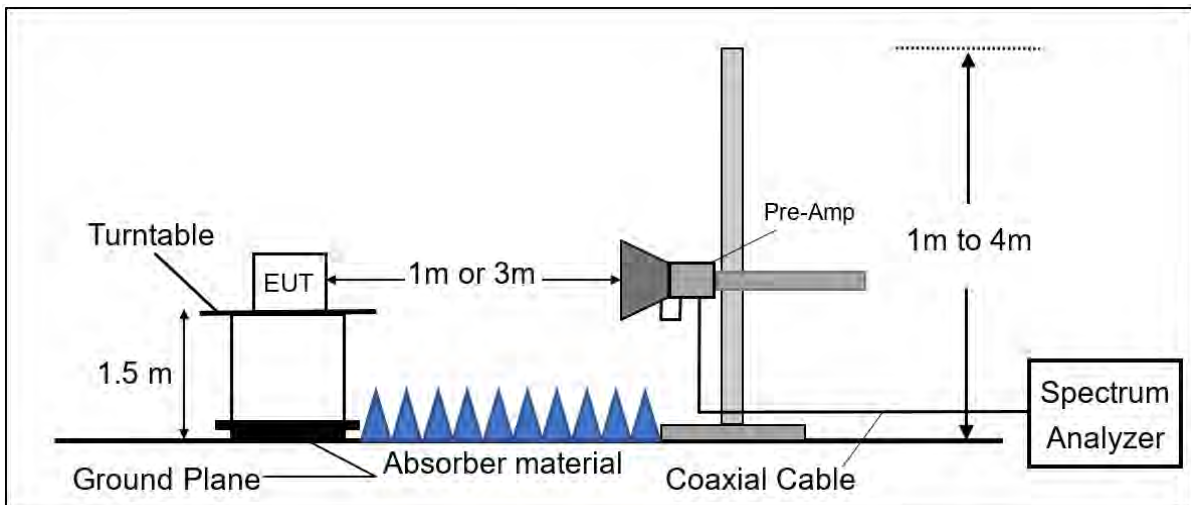
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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8.3 Measurement Procedure

1. The 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.

8.4 Field Strength Calculation

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

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

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in 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)

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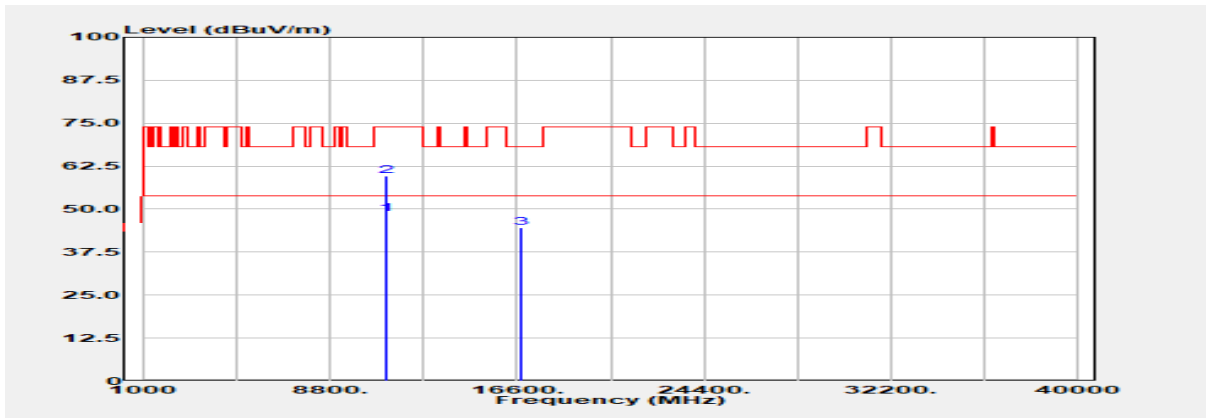
8.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

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

8.6 Radiated Spurious Emission Measurement Result

8.6.1 Spurious Emission

Report Number	:TERF2211002151E2	Test Site	:SAC D
Operation Mode	:802.11a	Test Date	:2022-12-13
Test Frequency	:5580 MHz	Temp./Humi.	:22.7/52
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Howard Huang



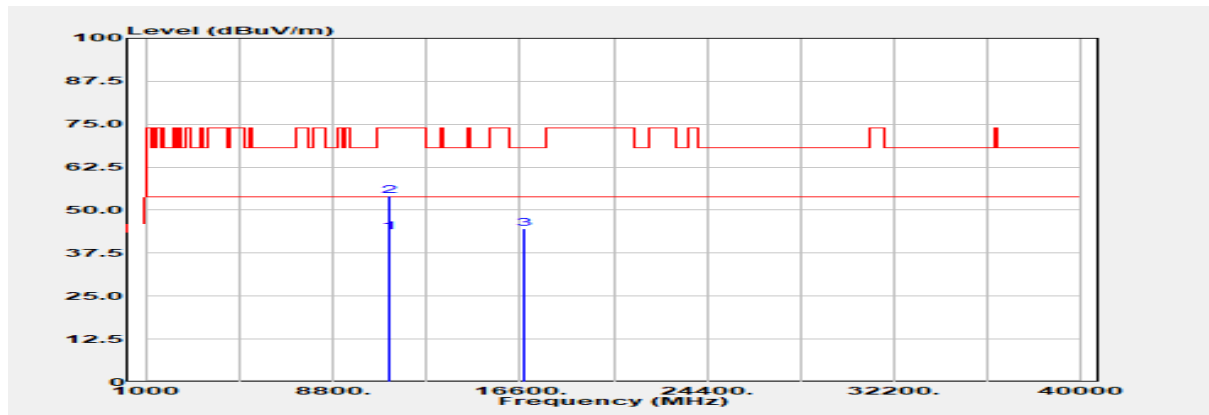
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.000	Average	38.84	9.90	48.74	54.00	-5.26
11160.000	Peak	49.84	9.90	59.74	74.00	-14.26
16740.000	Peak	34.88	9.80	44.69	68.20	-23.51

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Report Number :TERF2211002151E2
 Operation Mode :802.11a
 Test Frequency :5580 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-12-13
 Temp./Humi. :22.7/52
 Antenna Pol. :HORIZONTAL
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.000	Average	33.65	9.90	43.55	54.00	-10.45
11160.000	Peak	44.17	9.90	54.08	74.00	-19.92
16740.000	Peak	34.70	9.80	44.50	68.20	-23.70

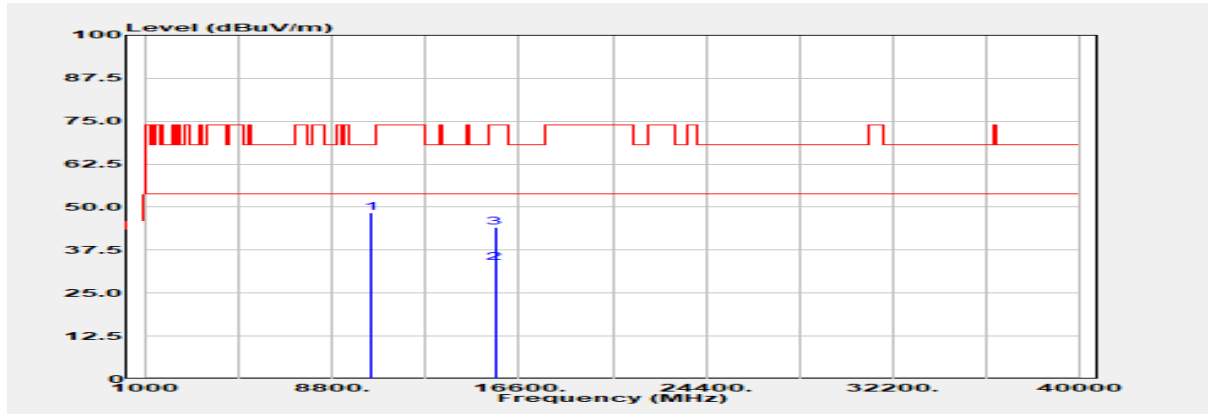
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Report Number :TERF2211002151E2
 Operation Mode :802.11n20
 Test Frequency :5200 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-03
 Temp./Humi. :23.1/53
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10400.000	Peak	38.57	9.91	48.48	68.20	-19.72
15600.000	Average	26.11	7.76	33.87	54.00	-20.13
15600.000	Peak	36.40	7.76	44.16	74.00	-29.84

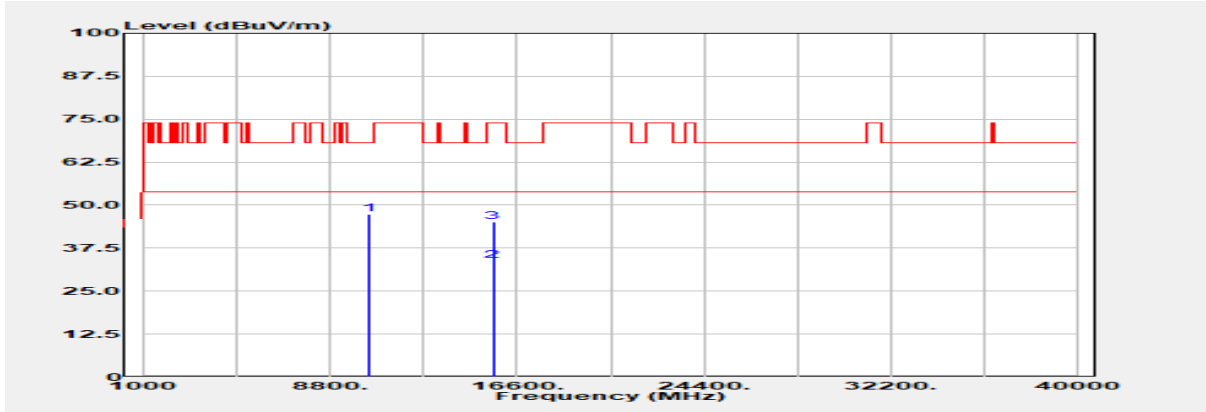
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Report Number :TERF2211002151E2
 Operation Mode :802.11n20
 Test Frequency :5200 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-03
 Temp./Humi. :23.1/53
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10400.000	Peak	37.55	9.91	47.46	68.20	-20.74
15600.000	Average	26.19	7.76	33.95	54.00	-20.05
15600.000	Peak	37.44	7.76	45.19	74.00	-28.81

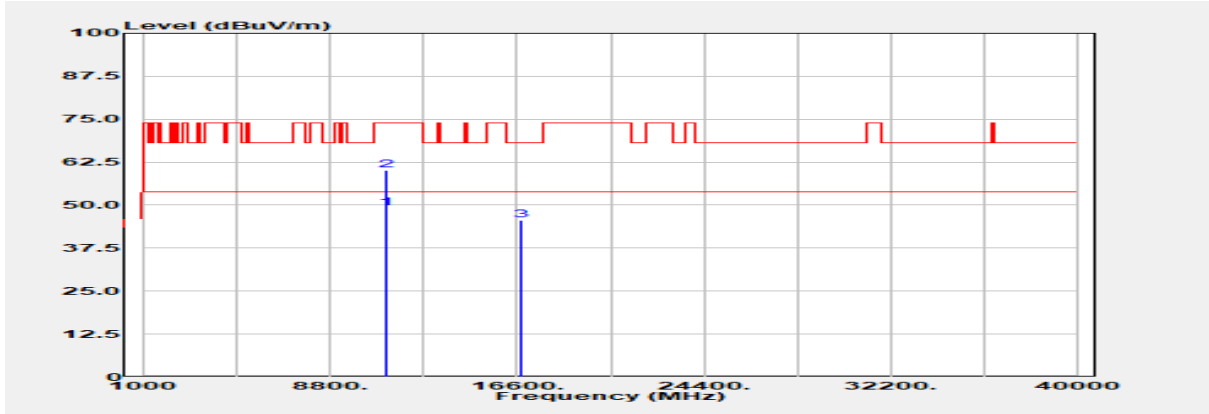
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Report Number :TERF2211002151E2
 Operation Mode :802.11n20
 Test Frequency :5580 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-12-13
 Temp./Humi. :22.7/52
 Antenna Pol. :VERTICAL
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.000	Average	39.28	9.90	49.18	54.00	-4.82
11160.000	Peak	50.24	9.90	60.14	74.00	-13.86
16740.000	Peak	35.89	9.80	45.70	68.20	-22.50

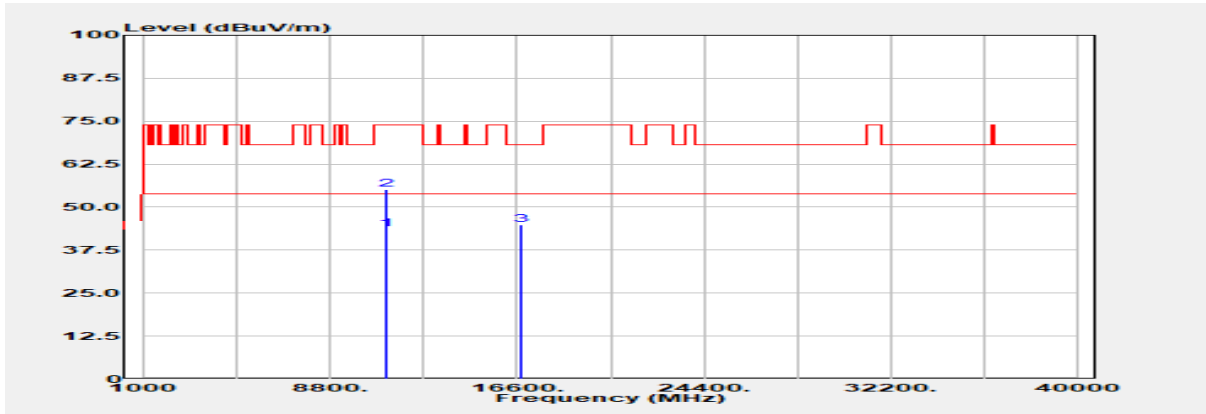
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Report Number :TERF2211002151E2
 Operation Mode :802.11n20
 Test Frequency :5580 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-12-13
 Temp./Humi. :22.7/52
 Antenna Pol. :HORIZONTAL
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.000	Average	33.62	9.90	43.52	54.00	-10.48
11160.000	Peak	45.21	9.90	55.11	74.00	-18.89
16740.000	Peak	35.00	9.80	44.81	68.20	-23.39

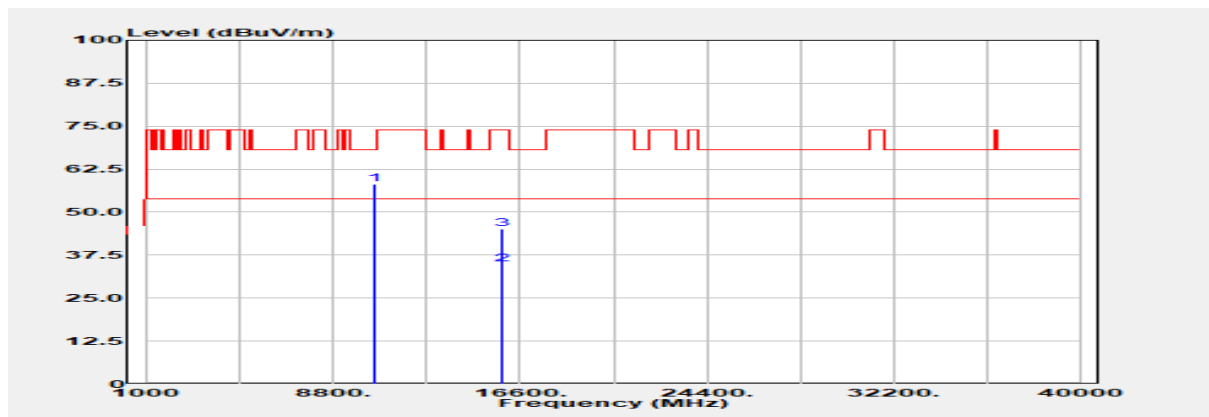
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Report Number :TERF2211002151E2
 Operation Mode :802.11n40
 Test Frequency :5270 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-01
 Temp./Humi. :22.8/56
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.000	Peak	47.79	10.38	58.17	68.20	-10.03
15810.000	Average	26.57	8.16	34.74	54.00	-19.26
15810.000	Peak	37.00	8.16	45.17	74.00	-28.83

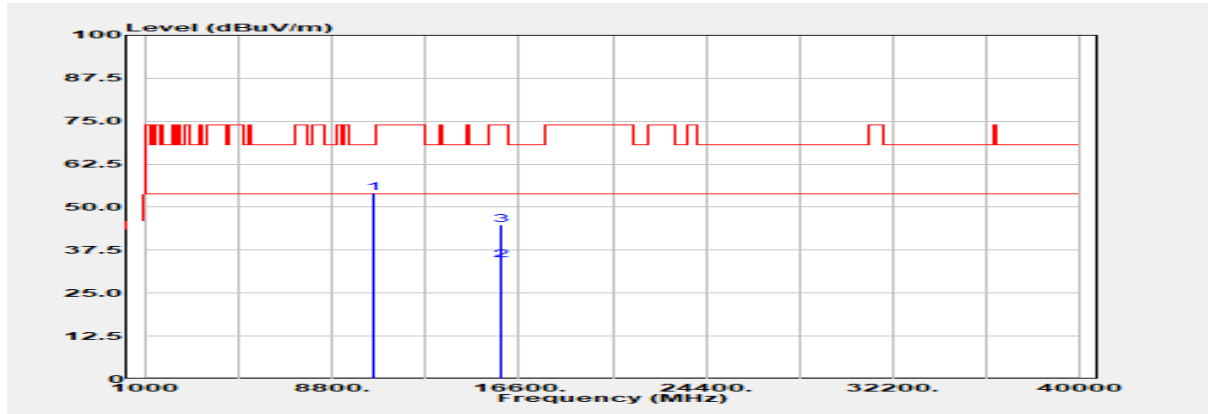
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Report Number :TERF2211002151E2
 Operation Mode :802.11n40
 Test Frequency :5270 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-01
 Temp./Humi. :22.8/56
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.000	Peak	43.66	10.38	54.04	68.20	-14.16
15810.000	Average	26.51	8.16	34.67	54.00	-19.33
15810.000	Peak	36.70	8.16	44.87	74.00	-29.13

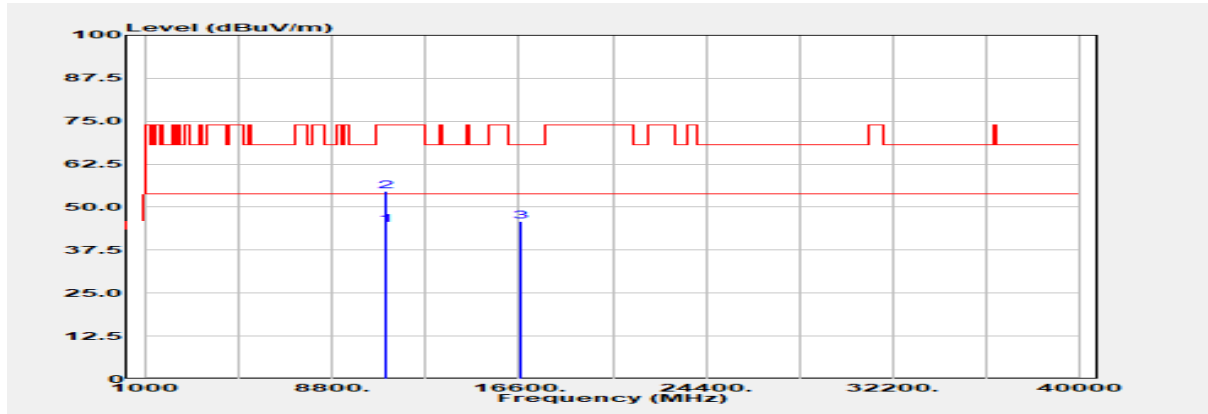
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Report Number :TERF2211002151E2
 Operation Mode :802.11n40
 Test Frequency :5550 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-01
 Temp./Humi. :22.8/56
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.000	Average	34.91	9.91	44.82	54.00	-9.18
11100.000	Peak	44.81	9.91	54.72	74.00	-19.28
16650.000	Peak	36.70	9.04	45.74	68.20	-22.46

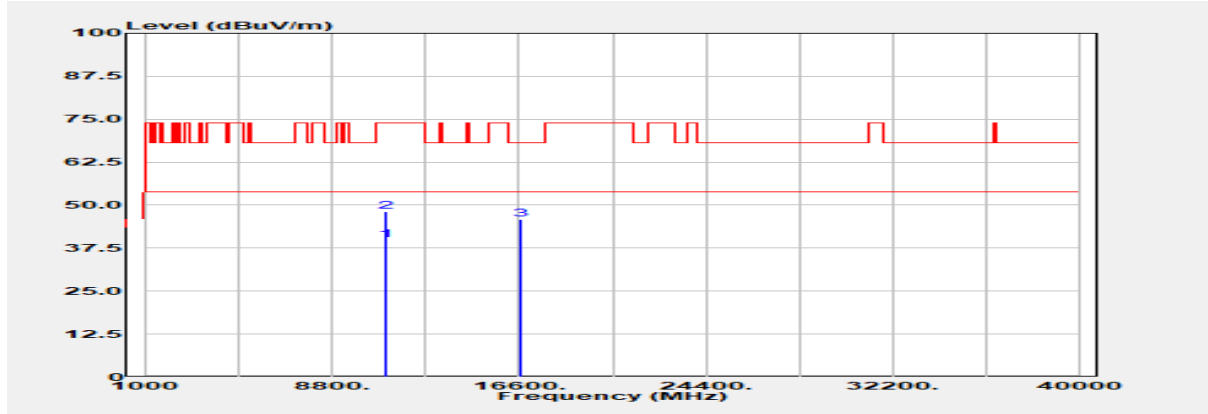
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Report Number :TERF2211002151E2
 Operation Mode :802.11n40
 Test Frequency :5550 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-01
 Temp./Humi. :22.8/56
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.000	Average	29.90	9.91	39.81	54.00	-14.19
11100.000	Peak	38.23	9.91	48.14	74.00	-25.86
16650.000	Peak	36.79	9.04	45.83	68.20	-22.37

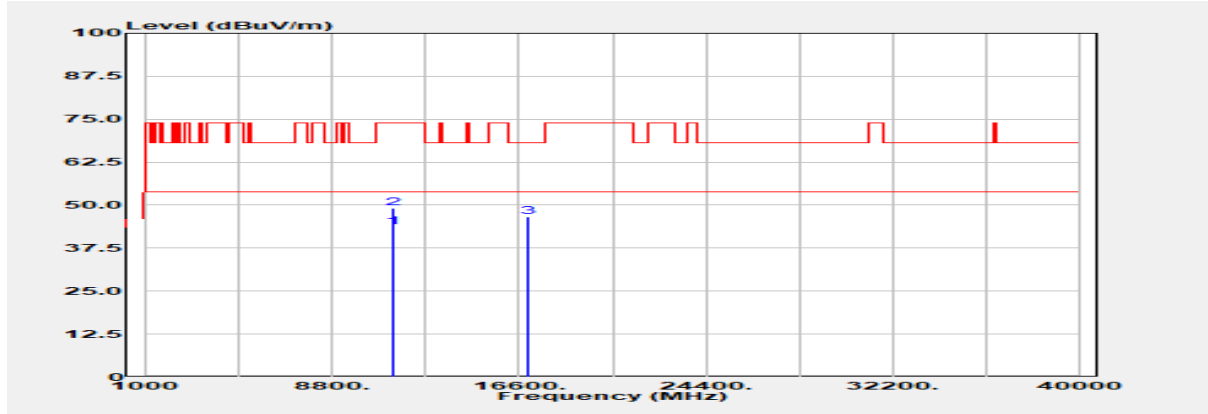
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Report Number :TERF2211002151E2
 Operation Mode :802.11n40
 Test Frequency :5670 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-01
 Temp./Humi. :22.8/56
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.000	Average	34.11	9.60	43.71	54.00	-10.29
11340.000	Peak	39.43	9.60	49.03	74.00	-24.97
17010.000	Peak	35.85	10.85	46.70	68.20	-21.50

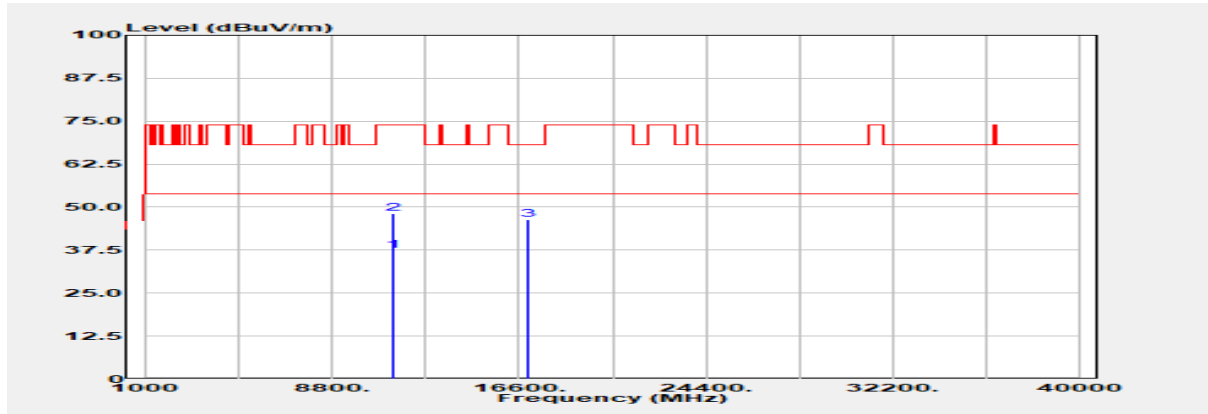
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Report Number :TERF2211002151E2
 Operation Mode :802.11n40
 Test Frequency :5670 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-01
 Temp./Humi. :22.8/56
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.000	Average	27.78	9.60	37.38	54.00	-16.62
11340.000	Peak	38.62	9.60	48.22	74.00	-25.78
17010.000	Peak	35.53	10.85	46.38	68.20	-21.82

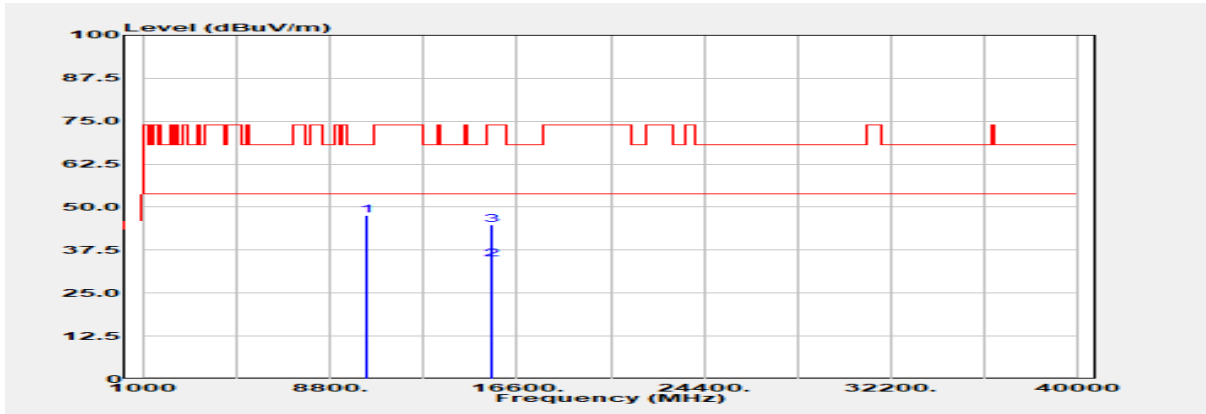
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5180 MHz
 Test Mode :Tx Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-03
 Temp./Humi. :23.1/53
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.000	Peak	38.60	8.96	47.56	68.20	-20.64
15540.000	Average	26.57	8.24	34.81	54.00	-19.19
15540.000	Peak	36.66	8.24	44.90	74.00	-29.10

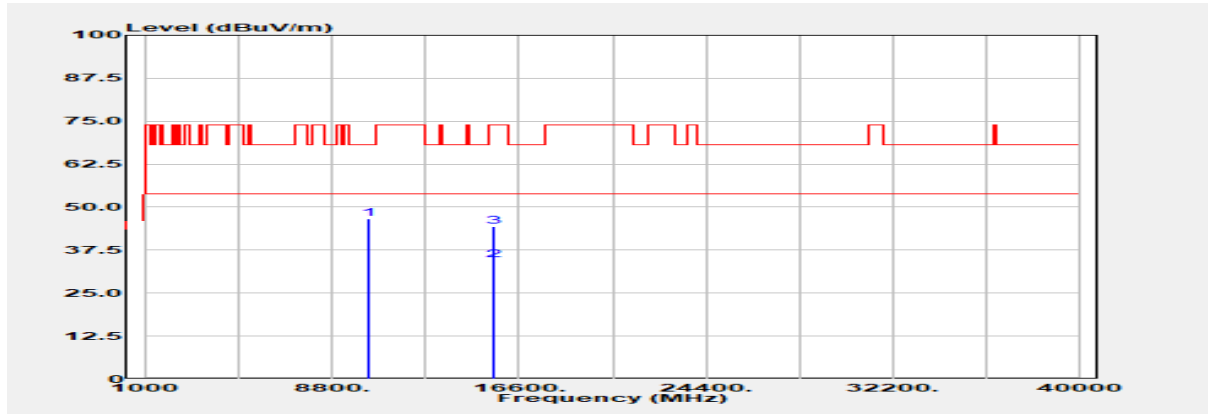
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5180 MHz
 Test Mode :Tx Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-03
 Temp./Humi. :23.1/53
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.000	Peak	37.60	8.96	46.56	68.20	-21.64
15540.000	Average	26.33	8.24	34.57	54.00	-19.43
15540.000	Peak	36.12	8.24	44.36	74.00	-29.64

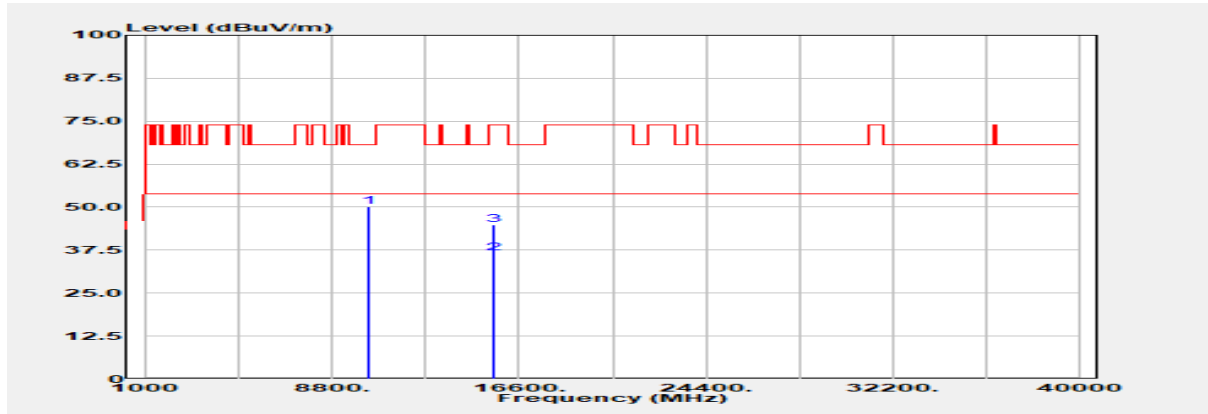
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5180 MHz
 Test Mode :Tx RU 106/53
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-02
 Temp./Humi. :22.6/52
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.000	Peak	41.11	8.96	50.06	68.20	-18.14
15540.000	Average	28.37	8.24	36.61	54.00	-17.39
15540.000	Peak	36.65	8.24	44.89	74.00	-29.11

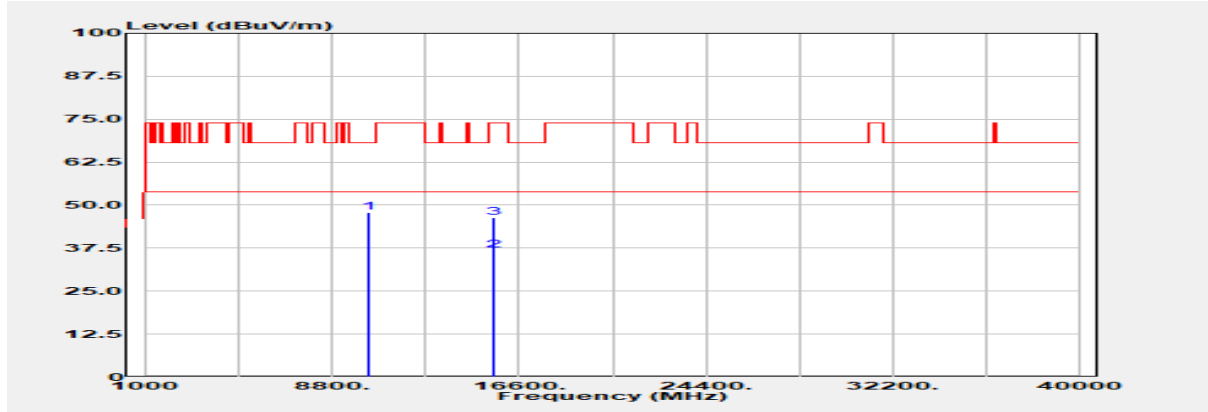
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5180 MHz
 Test Mode :Tx RU 106/53
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-02
 Temp./Humi. :22.6/52
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.000	Peak	38.87	8.96	47.83	68.20	-20.37
15540.000	Average	28.66	8.24	36.90	54.00	-17.10
15540.000	Peak	38.17	8.24	46.41	74.00	-27.60

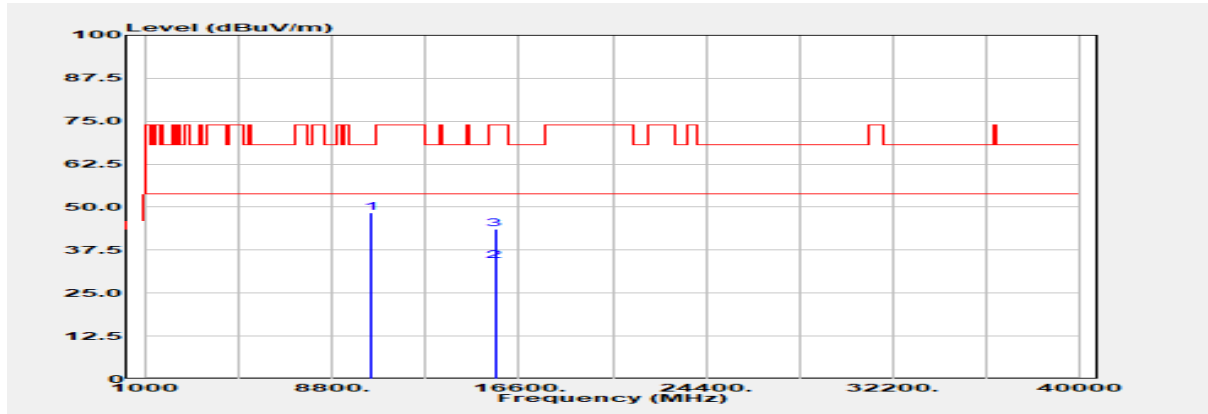
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5200 MHz
 Test Mode :Tx Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-03
 Temp./Humi. :23.1/53
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10400.000	Peak	38.58	9.91	48.49	68.20	-19.71
15600.000	Average	26.53	7.76	34.29	54.00	-19.71
15600.000	Peak	35.89	7.76	43.65	74.00	-30.35

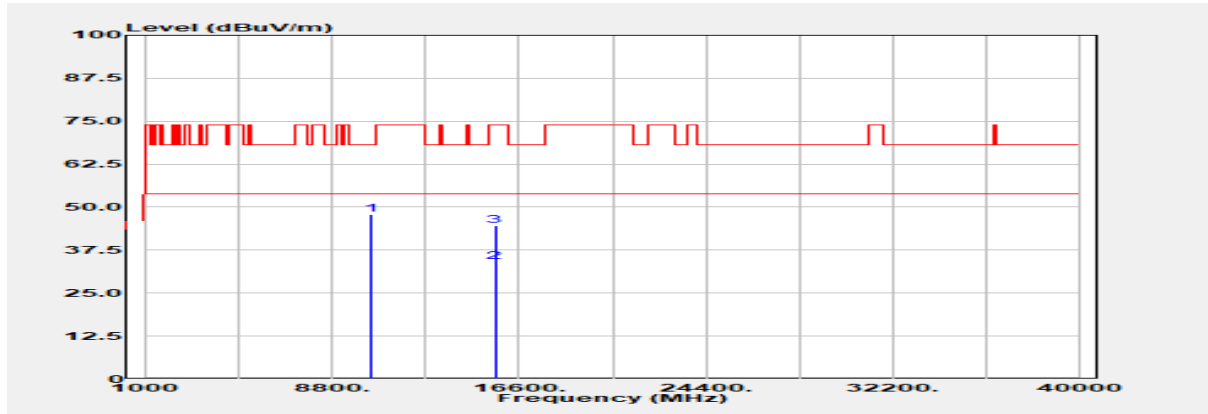
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5200 MHz
 Test Mode :Tx Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-03
 Temp./Humi. :23.1/53
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10400.000	Peak	38.01	9.91	47.92	68.20	-20.28
15600.000	Average	26.27	7.76	34.03	54.00	-19.97
15600.000	Peak	36.95	7.76	44.71	74.00	-29.29

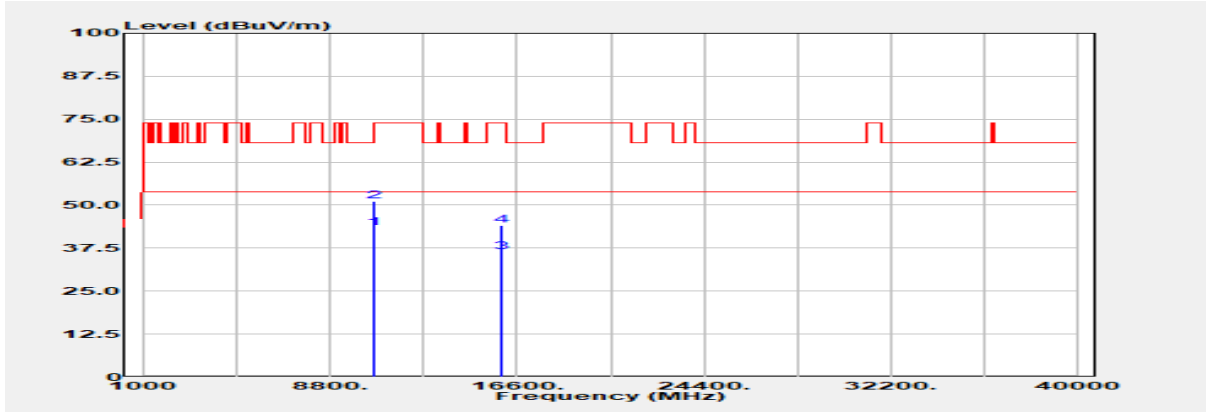
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5320 MHz
 Test Mode :Tx RU 52/40
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-02
 Temp./Humi. :22.6/52
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.000	Average	33.65	9.77	43.42	54.00	-10.58
10640.000	Peak	41.38	9.77	51.15	74.00	-22.85
15960.000	Average	28.60	7.80	36.40	54.00	-17.60
15960.000	Peak	36.32	7.80	44.13	74.00	-29.87

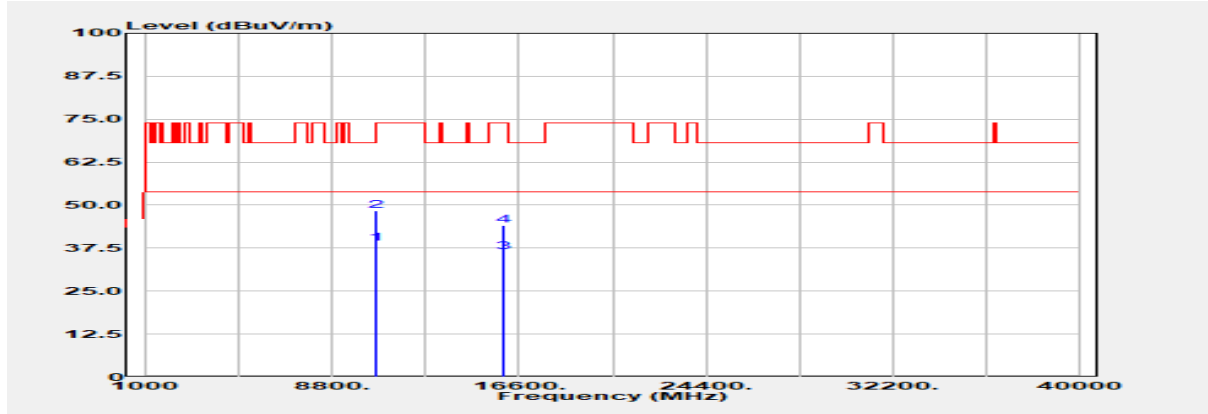
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5320 MHz
 Test Mode :Tx RU 52/40
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-02
 Temp./Humi. :22.6/52
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.000	Average	29.20	9.77	38.97	54.00	-15.03
10640.000	Peak	38.50	9.77	48.28	74.00	-25.72
15960.000	Average	28.66	7.80	36.46	54.00	-17.54
15960.000	Peak	36.38	7.80	44.18	74.00	-29.82

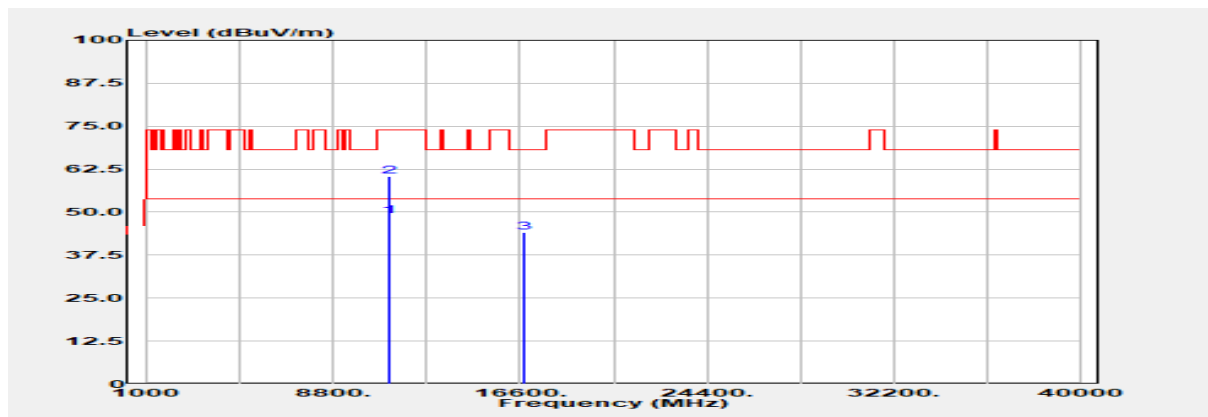
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5580 MHz
 Test Mode :Tx Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-12-13
 Temp./Humi. :22.7/52
 Antenna Pol. :VERTICAL
 Engineer :Howard Huang



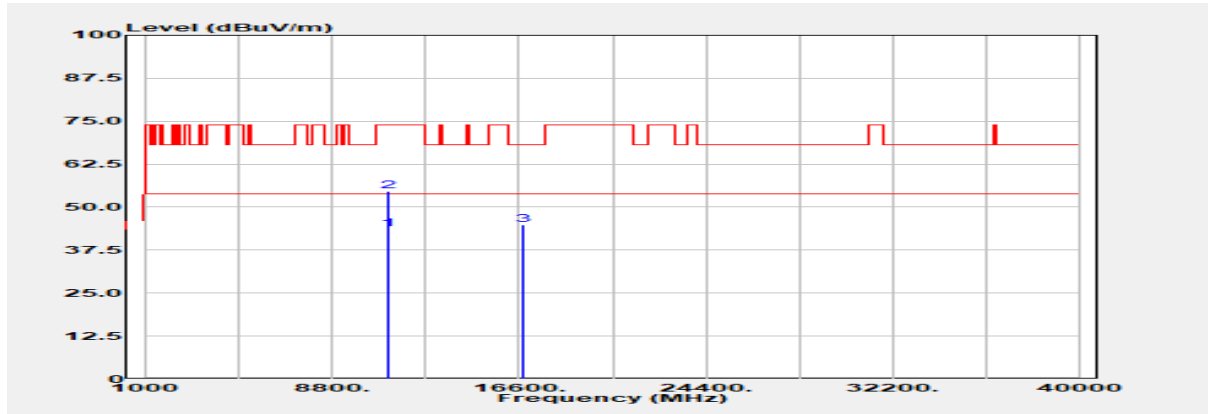
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.000	Average	39.05	9.90	48.95	54.00	-5.05
11160.000	Peak	50.44	9.90	60.35	74.00	-13.65
16740.000	Peak	34.23	9.80	44.03	68.20	-24.17

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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5580 MHz
 Test Mode :Tx Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-12-13
 Temp./Humi. :22.7/52
 Antenna Pol. :HORIZONTAL
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.000	Average	33.78	9.90	43.68	54.00	-10.32
11160.000	Peak	44.63	9.90	54.54	74.00	-19.46
16740.000	Peak	35.08	9.80	44.88	68.20	-23.32

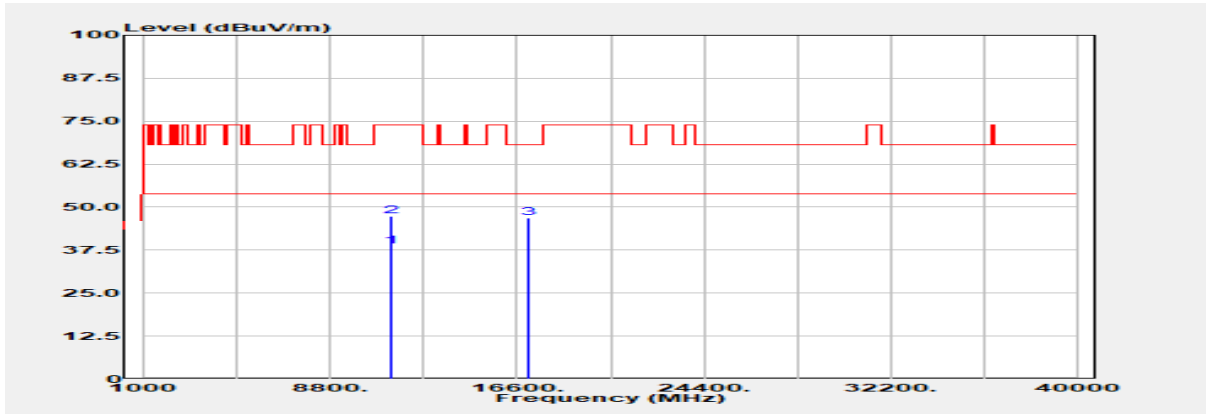
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5700 MHz
 Test Mode :Tx Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-02
 Temp./Humi. :22.6/52
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.000	Average	29.15	9.43	38.58	54.00	-15.42
11400.000	Peak	37.83	9.43	47.25	74.00	-26.75
17100.000	Peak	37.31	9.61	46.91	68.20	-21.29

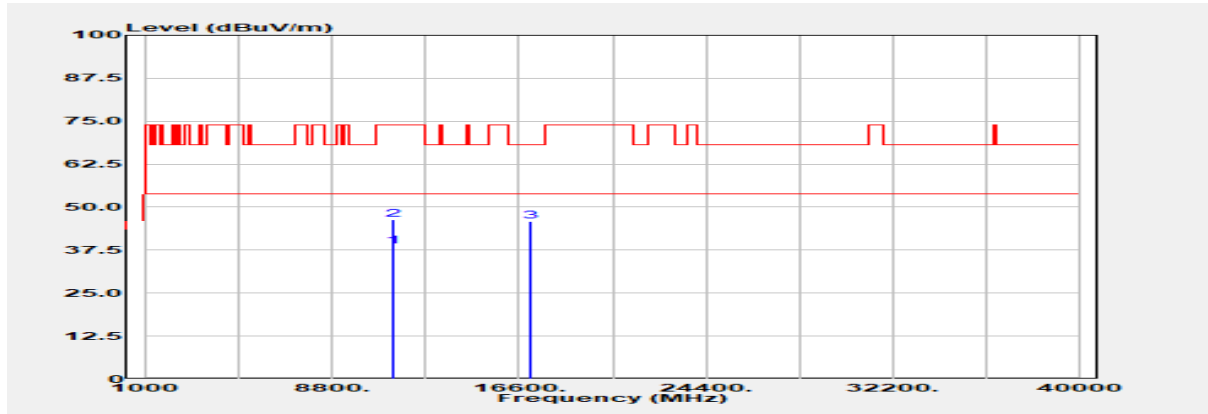
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5700 MHz
 Test Mode :Tx Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-02
 Temp./Humi. :22.6/52
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.000	Average	29.11	9.43	38.53	54.00	-15.47
11400.000	Peak	36.95	9.43	46.38	74.00	-27.62
17100.000	Peak	36.28	9.61	45.88	68.20	-22.32

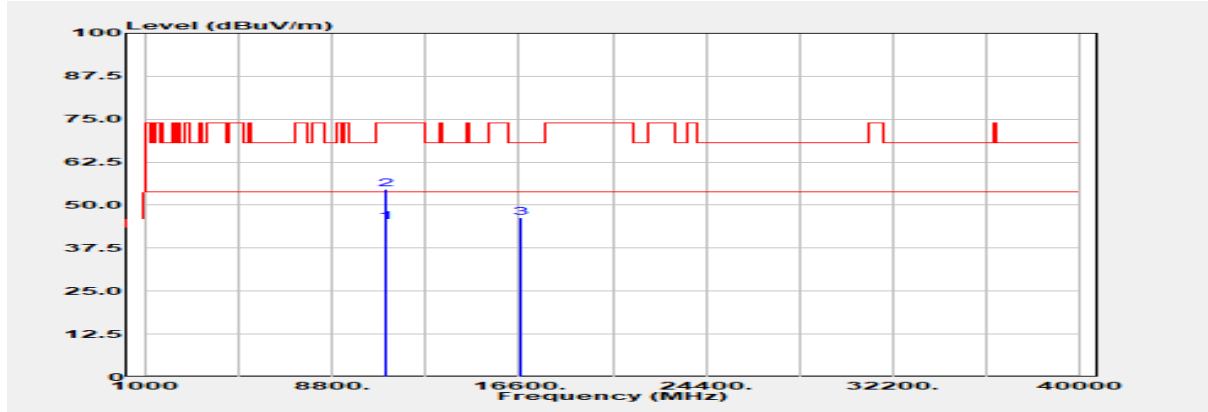
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax40
 Test Frequency :5550 MHz
 Test Mode :Tx Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-02
 Temp./Humi. :22.6/52
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.000	Average	35.31	9.91	45.22	54.00	-8.78
11100.000	Peak	44.80	9.91	54.71	74.00	-19.29
16650.000	Peak	37.41	9.04	46.46	68.20	-21.74

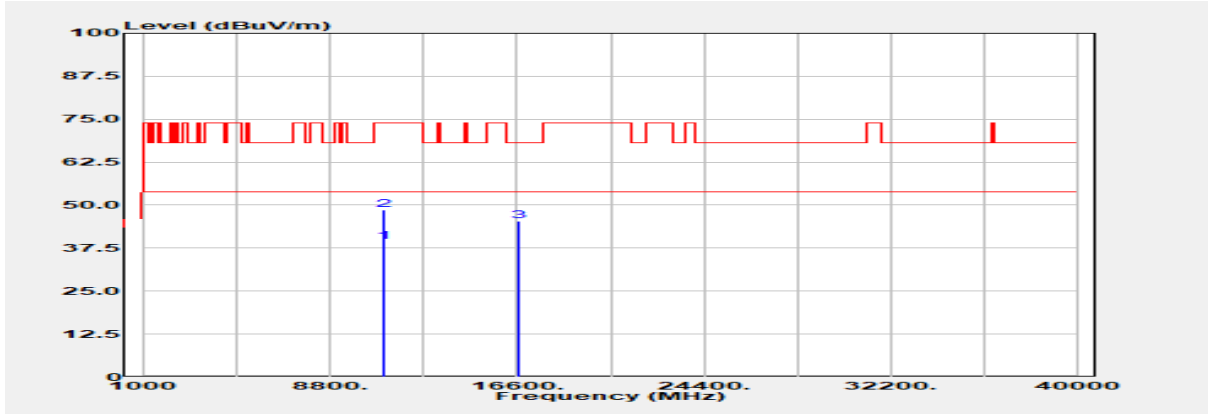
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax40
 Test Frequency :5550 MHz
 Test Mode :Tx Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-02
 Temp./Humi. :22.6/52
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.000	Average	29.37	9.91	39.28	54.00	-14.72
11100.000	Peak	38.78	9.91	48.69	74.00	-25.31
16650.000	Peak	36.25	9.04	45.29	68.20	-22.91

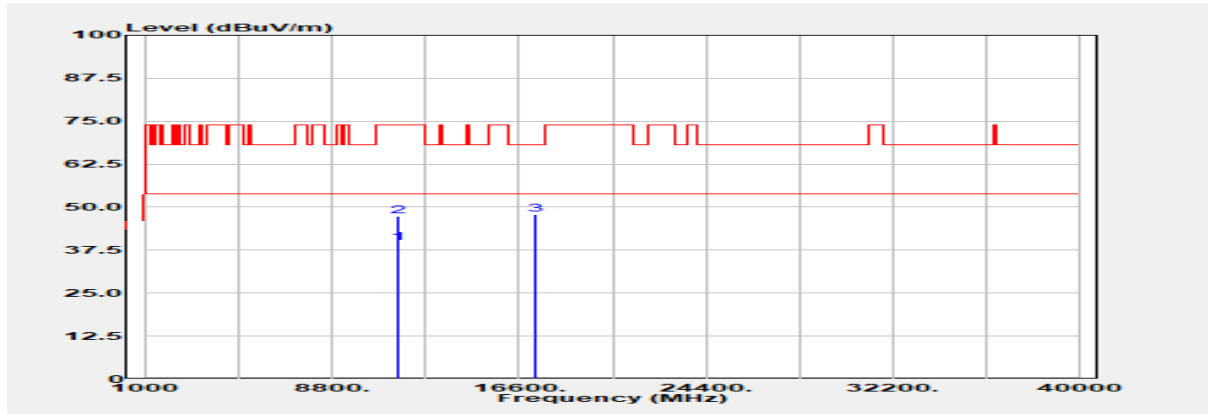
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax80
 Test Frequency :5775 MHz
 Test Mode :Tx RU 484/66
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-02
 Temp./Humi. :22.6/52
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.000	Average	30.59	9.11	39.70	54.00	-14.30
11550.000	Peak	38.34	9.11	47.45	74.00	-26.55
17325.000	Peak	36.14	11.85	47.99	68.20	-20.21

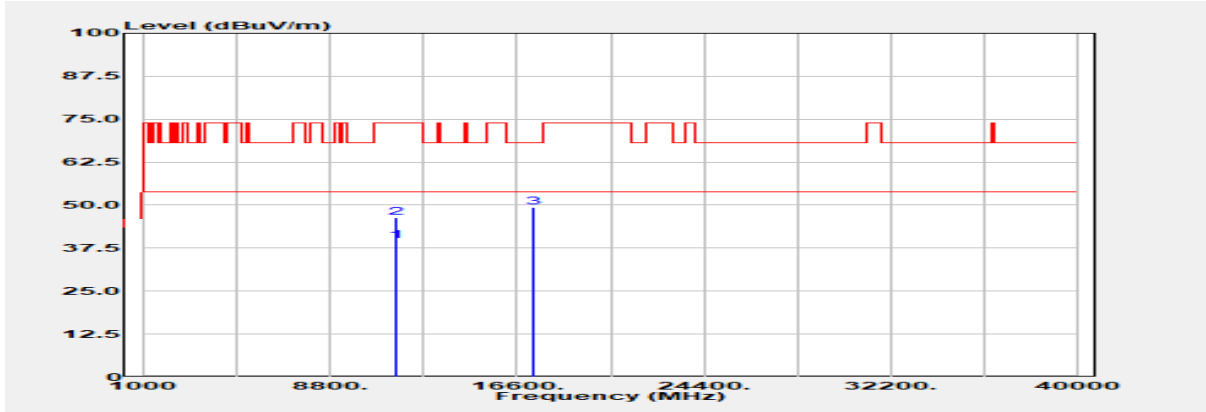
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax80
 Test Frequency :5775 MHz
 Test Mode :Tx RU 484/66
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-02
 Temp./Humi. :22.6/52
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.000	Average	30.46	9.11	39.57	54.00	-14.43
11550.000	Peak	37.35	9.11	46.46	74.00	-27.54
17325.000	Peak	37.53	11.85	49.38	68.20	-18.82

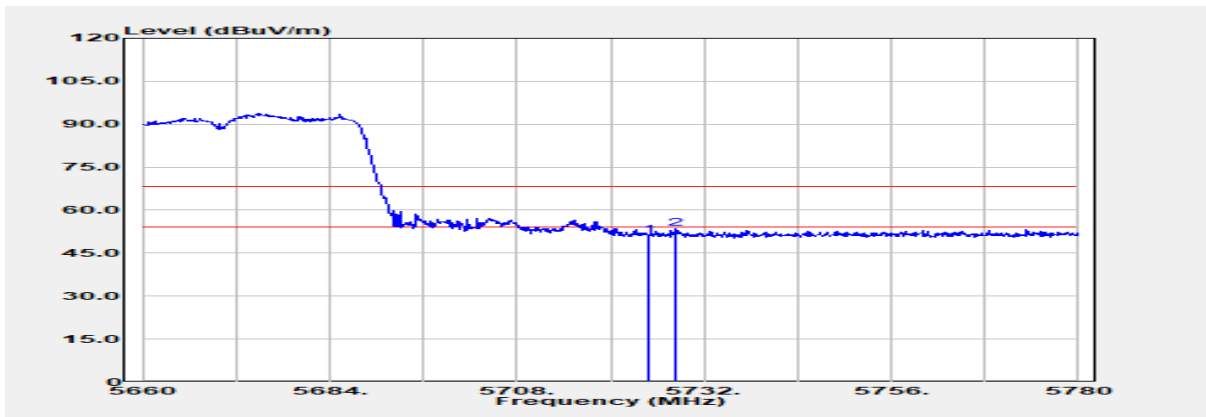
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8.6.2 Band edge falling to restricted band

Report Number	:TERF2211002151E2	Test Site	:SAC D
Operation Mode	:802.11n40	Test Date	:2023-02-04
Test Frequency	:5670 MHz	Temp./Humi.	:24.4/40
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	51.79	-0.74	51.05	68.20	-17.15
5728.280	Peak	54.22	-0.68	53.54	68.20	-14.66

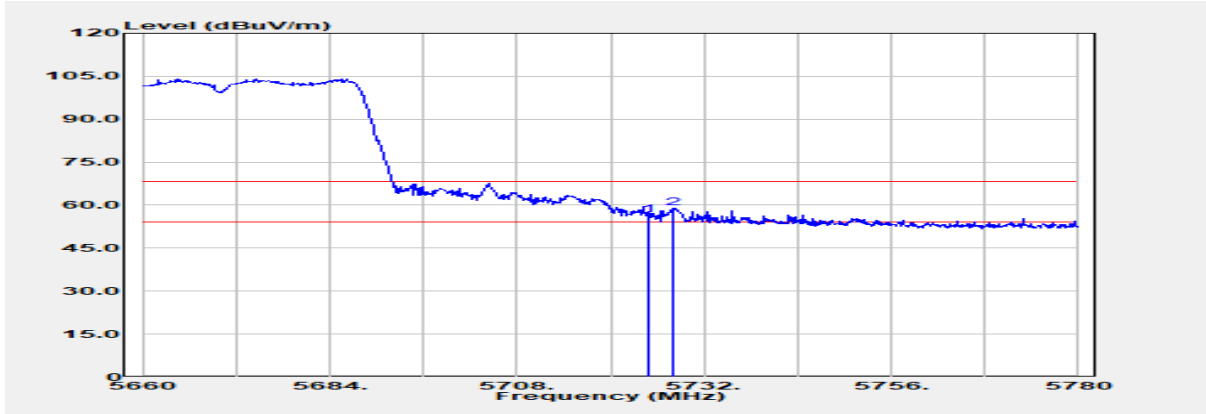
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Report Number :TERF2211002151E2
 Operation Mode :802.11n40
 Test Frequency :5670 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	57.24	-0.74	56.50	68.20	-11.70
5727.920	Peak	59.56	-0.69	58.87	68.20	-9.33

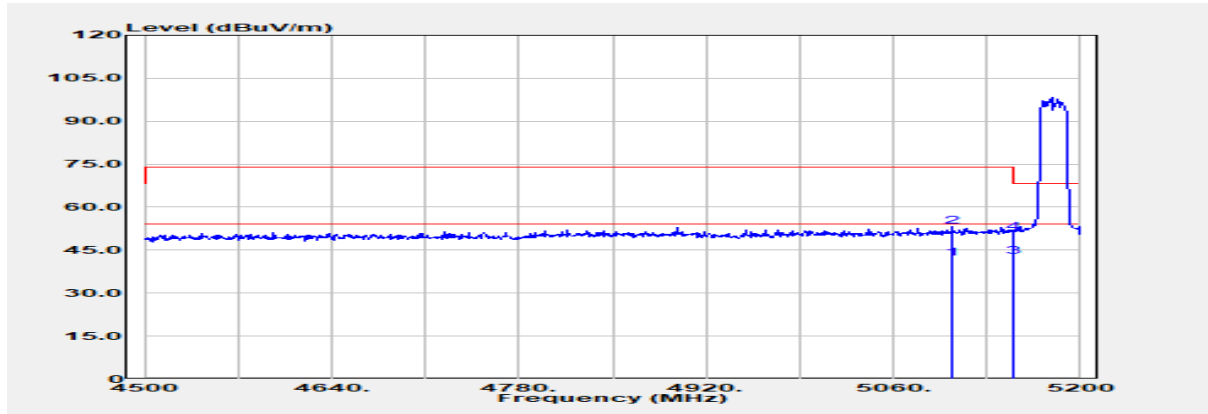
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5180 MHz
 Test Mode :Bandedge Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5104.100	Average	43.36	-1.34	42.02	54.00	-11.98
5104.100	Peak	54.67	-1.34	53.33	74.00	-20.67
5150.000	Average	43.34	-0.67	42.67	54.00	-11.33
5150.000	Peak	51.82	-0.67	51.15	74.00	-22.85

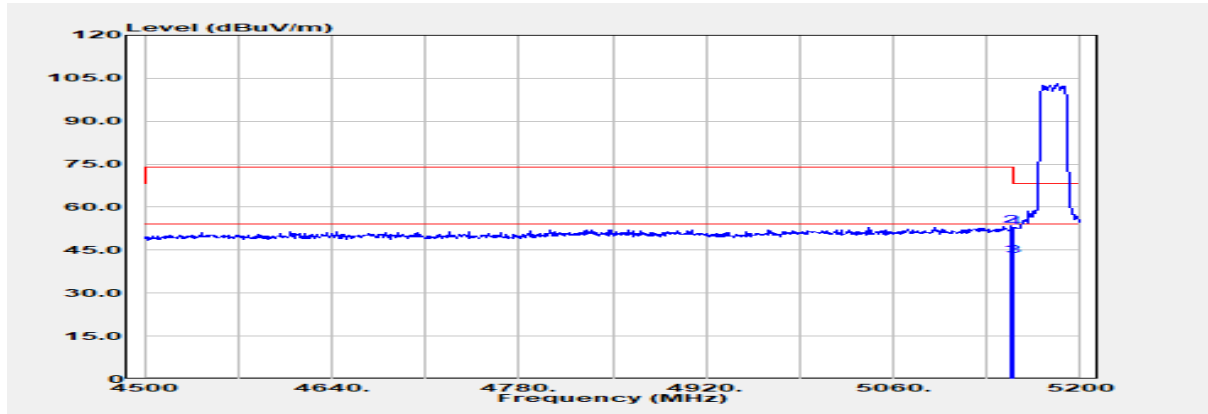
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5180 MHz
 Test Mode :Bandedge Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5148.900	Average	43.90	-0.69	43.22	54.00	-10.78
5148.900	Peak	54.21	-0.69	53.53	74.00	-20.47
5150.000	Average	43.82	-0.67	43.15	54.00	-10.85
5150.000	Peak	53.72	-0.67	53.05	74.00	-20.95

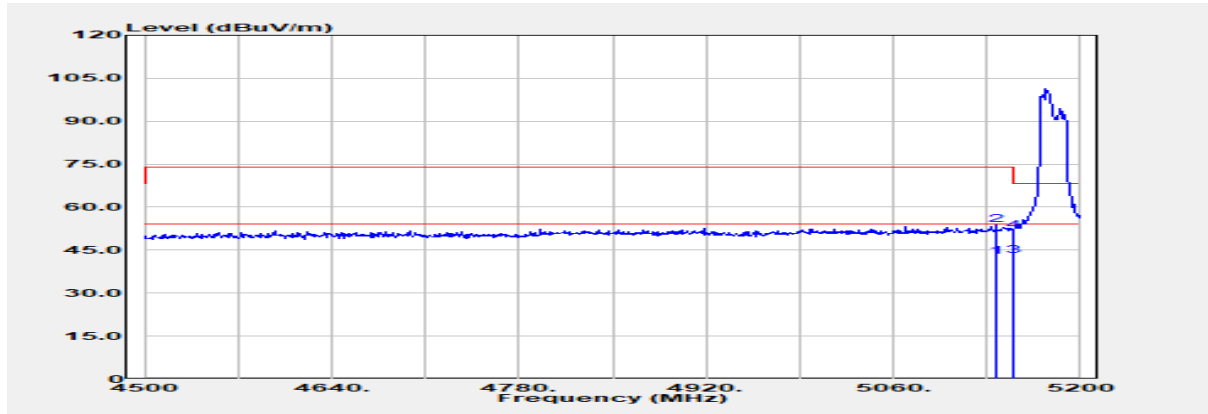
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5180 MHz
 Test Mode :Bandedge RU 26/0
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5137.000	Average	43.68	-0.86	42.81	54.00	-11.19
5137.000	Peak	54.63	-0.86	53.77	74.00	-20.23
5150.000	Average	43.73	-0.67	43.05	54.00	-10.95
5150.000	Peak	52.47	-0.67	51.80	74.00	-22.20

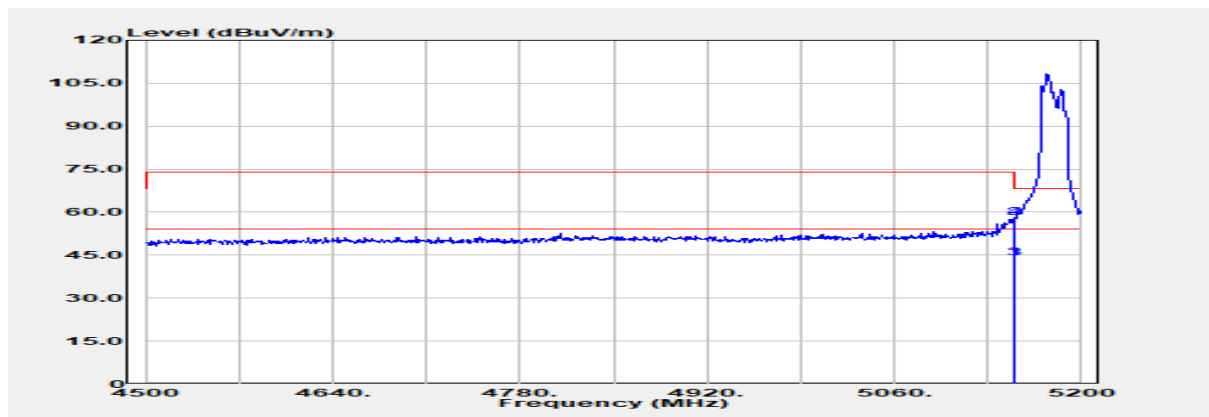
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5180 MHz
 Test Mode :Bandedge RU 26/0
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5149.600	Average	44.60	-0.68	43.92	54.00	-10.08
5149.600	Peak	58.70	-0.68	58.02	74.00	-15.98
5150.000	Average	44.64	-0.67	43.96	54.00	-10.04
5150.000	Peak	58.79	-0.67	58.12	74.00	-15.88

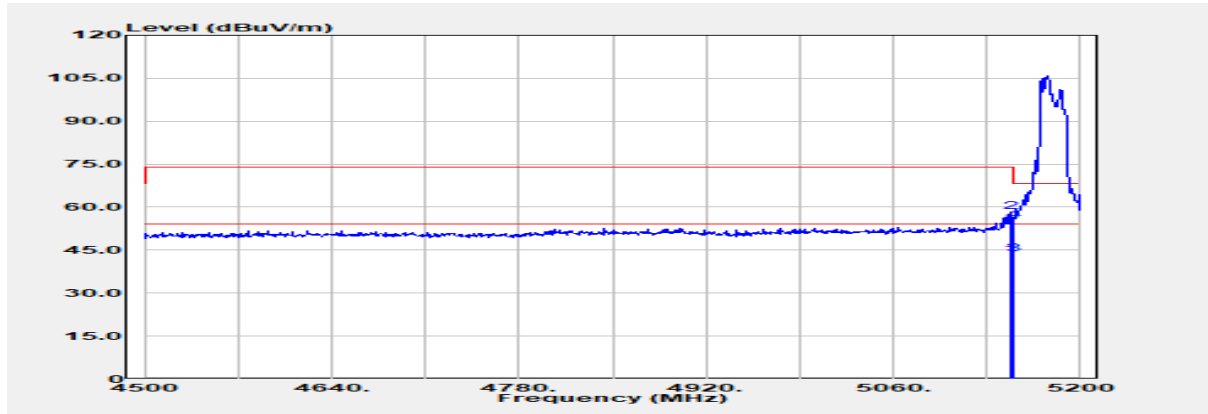
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5180 MHz
 Test Mode :Bandedge RU 106/53
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5148.900	Average	43.91	-0.69	43.22	54.00	-10.78
5148.900	Peak	58.97	-0.69	58.28	74.00	-15.72
5150.000	Average	44.33	-0.67	43.66	54.00	-10.34
5150.000	Peak	56.04	-0.67	55.37	74.00	-18.63

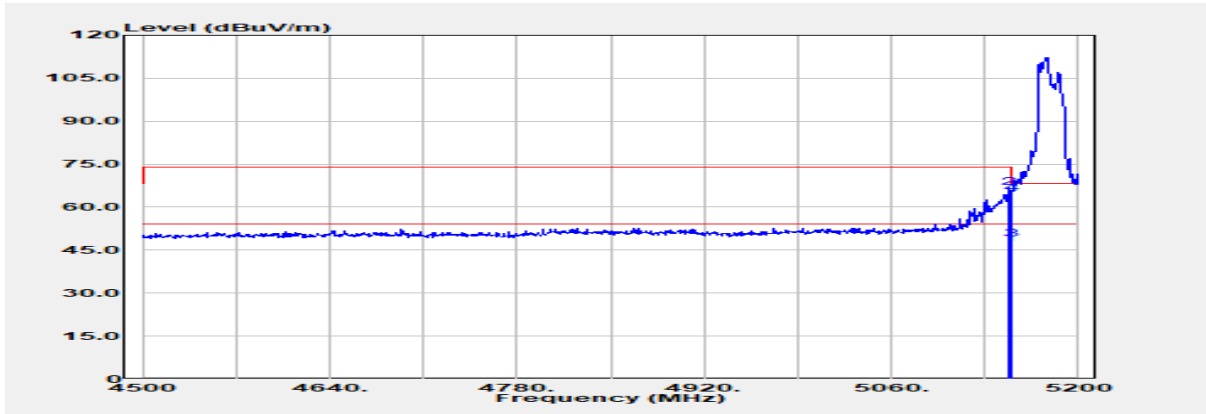
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5180 MHz
 Test Mode :Bandedge RU 106/53
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5148.200	Average	47.88	-0.70	47.18	54.00	-6.82
5148.200	Peak	67.60	-0.70	66.90	74.00	-7.10
5150.000	Average	49.50	-0.67	48.83	54.00	-5.17
5150.000	Peak	65.38	-0.67	64.71	74.00	-9.29

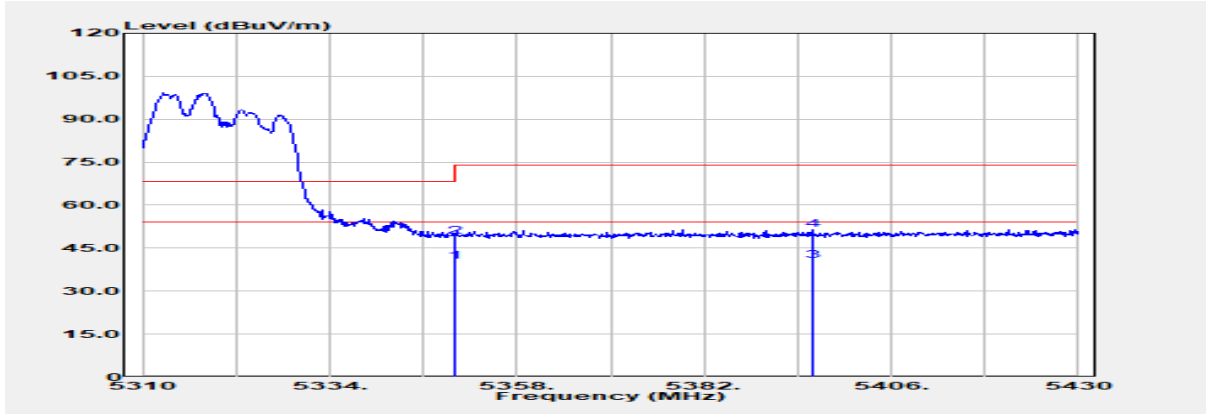
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5320 MHz
 Test Mode :Bandedge RU 26/8
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	42.02	-1.78	40.24	54.00	-13.76
5350.000	Peak	50.92	-1.78	49.14	74.00	-24.86
5395.800	Average	41.97	-1.37	40.60	54.00	-13.40
5395.800	Peak	52.95	-1.37	51.58	74.00	-22.42

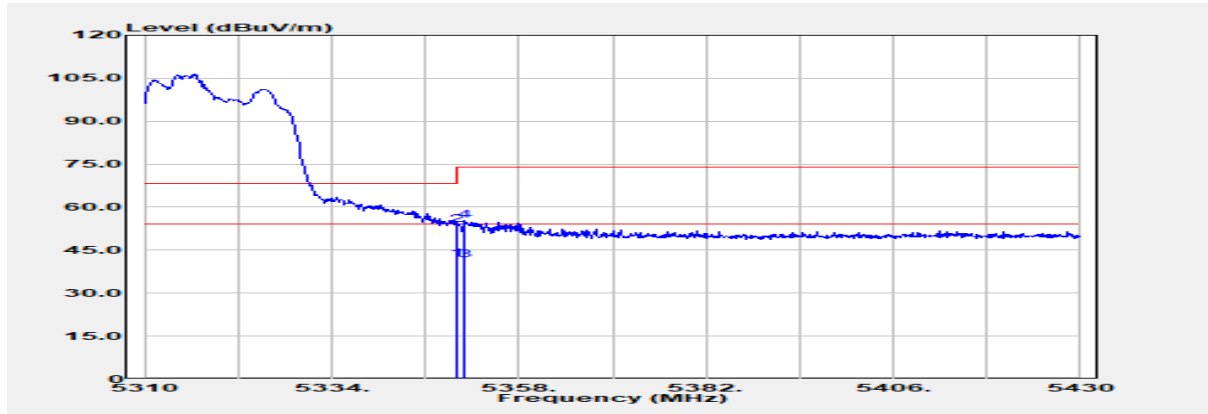
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5320 MHz
 Test Mode :Bandedge RU 26/8
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	43.51	-1.78	41.73	54.00	-12.27
5350.000	Peak	55.61	-1.78	53.83	74.00	-20.17
5350.920	Average	43.15	-1.77	41.38	54.00	-12.62
5350.920	Peak	57.05	-1.77	55.27	74.00	-18.73

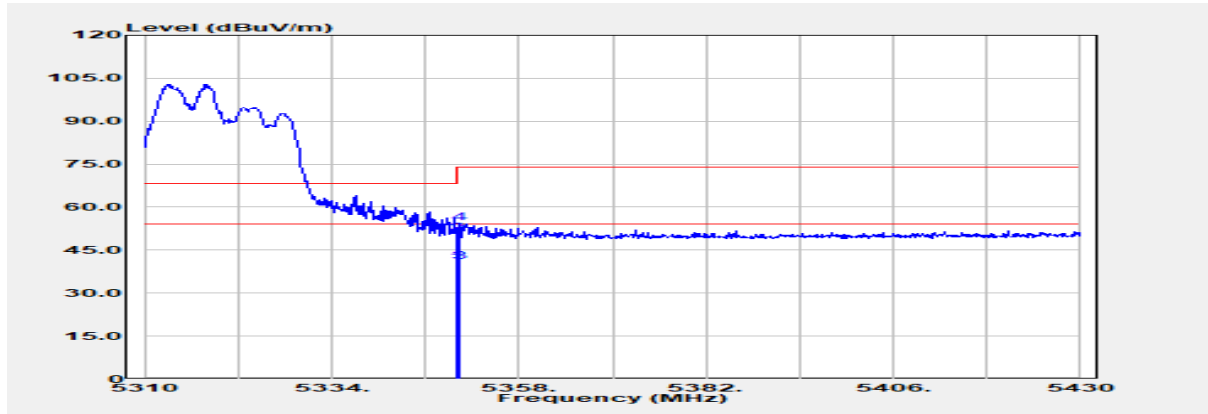
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5320 MHz
 Test Mode :Bandedge RU 52/40
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	42.27	-1.78	40.49	54.00	-13.51
5350.000	Peak	52.62	-1.78	50.84	74.00	-23.16
5350.320	Average	42.64	-1.78	40.86	54.00	-13.14
5350.320	Peak	56.34	-1.78	54.56	74.00	-19.44

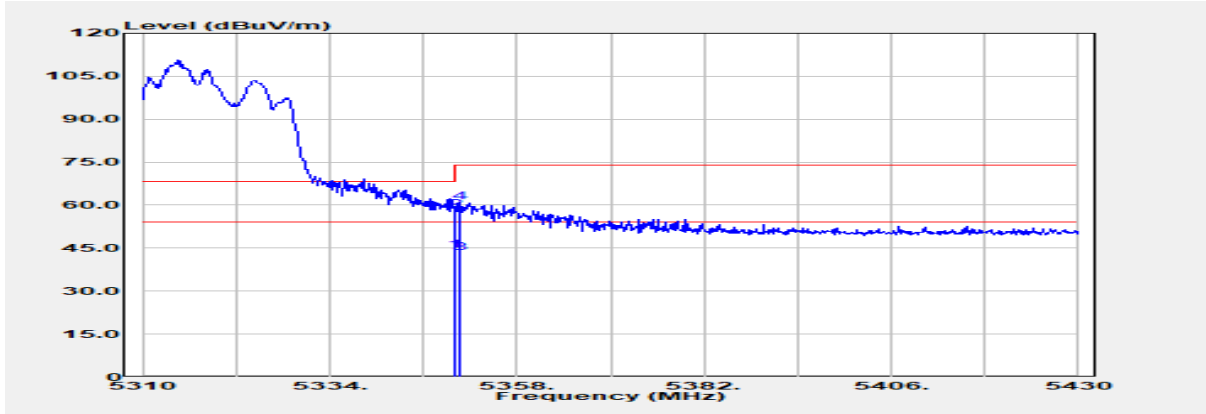
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5320 MHz
 Test Mode :Bandedge RU 52/40
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.000	Average	45.95	-1.78	44.17	54.00	-9.83
5350.000	Peak	60.03	-1.78	58.25	74.00	-15.75
5350.680	Average	45.16	-1.77	43.38	54.00	-10.62
5350.680	Peak	62.85	-1.77	61.07	74.00	-12.93

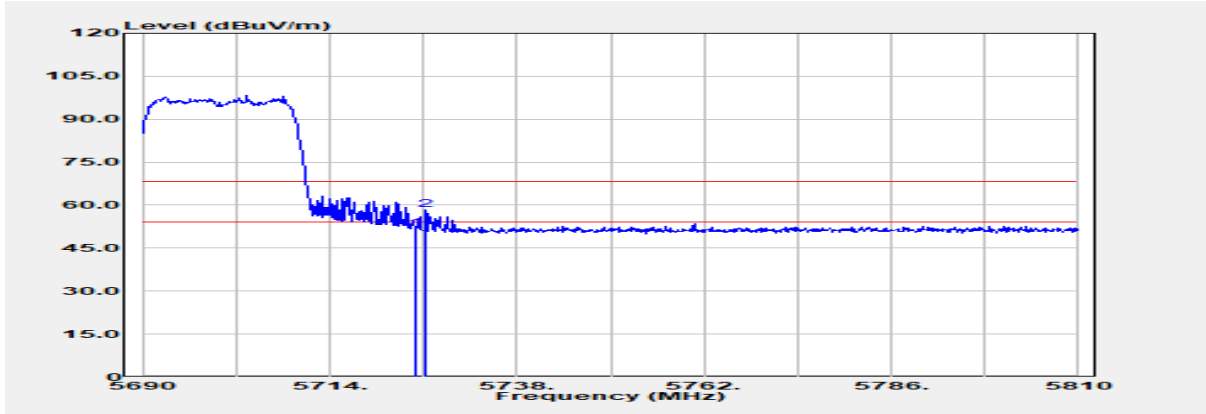
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5700 MHz
 Test Mode :Bandedge Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	52.61	-0.74	51.86	68.20	-16.34
5726.240	Peak	59.00	-0.72	58.28	68.20	-9.92

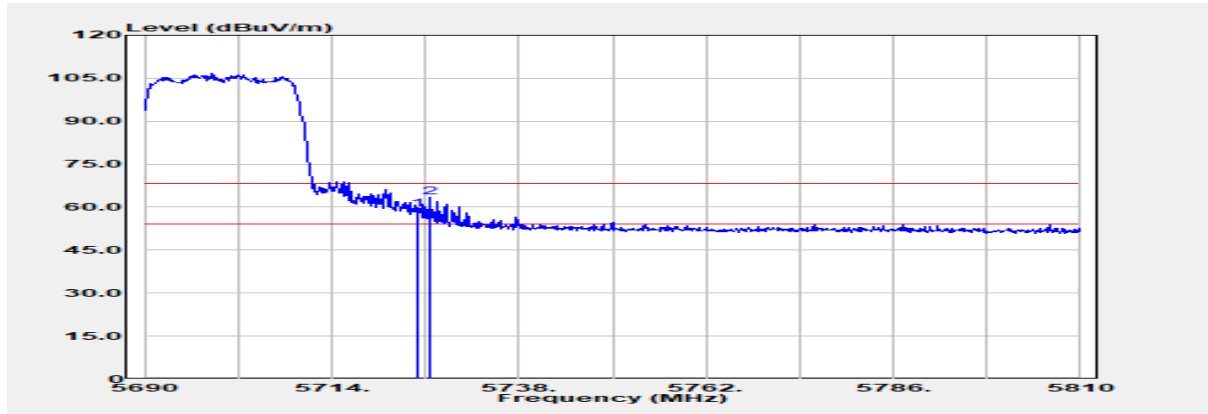
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5700 MHz
 Test Mode :Bandedge Full RU
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	60.13	-0.74	59.39	68.20	-8.81
5726.600	Peak	64.16	-0.71	63.45	68.20	-4.75

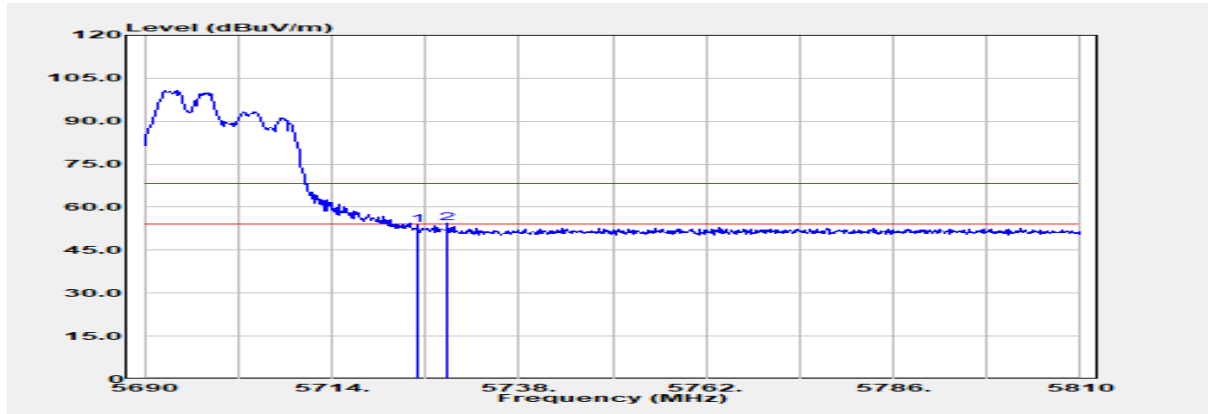
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5700 MHz
 Test Mode :Bandedge RU 52/40
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	54.59	-0.74	53.85	68.20	-14.35
5728.880	Peak	55.23	-0.67	54.57	68.20	-13.63

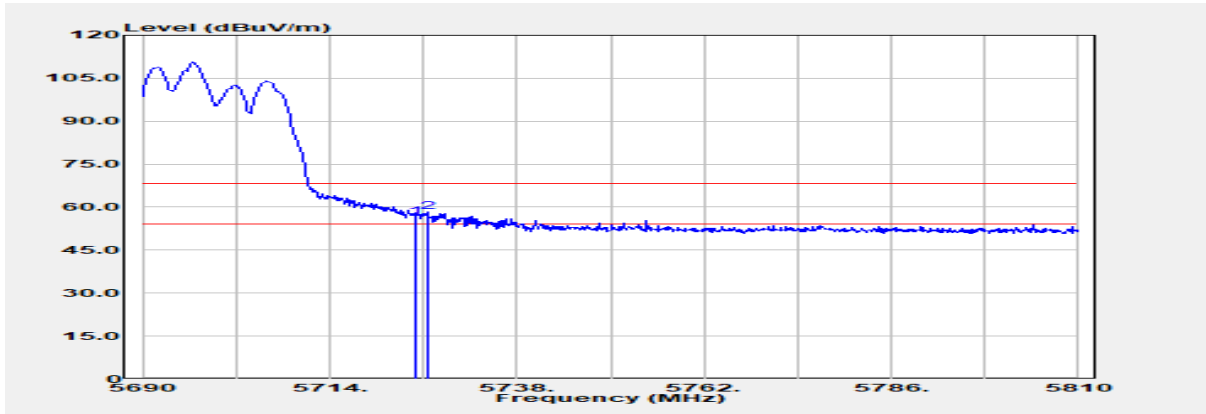
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax20
 Test Frequency :5700 MHz
 Test Mode :Bandedge RU 52/40
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



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	57.32	-0.74	56.57	68.20	-11.63
5726.480	Peak	58.96	-0.71	58.24	68.20	-9.96

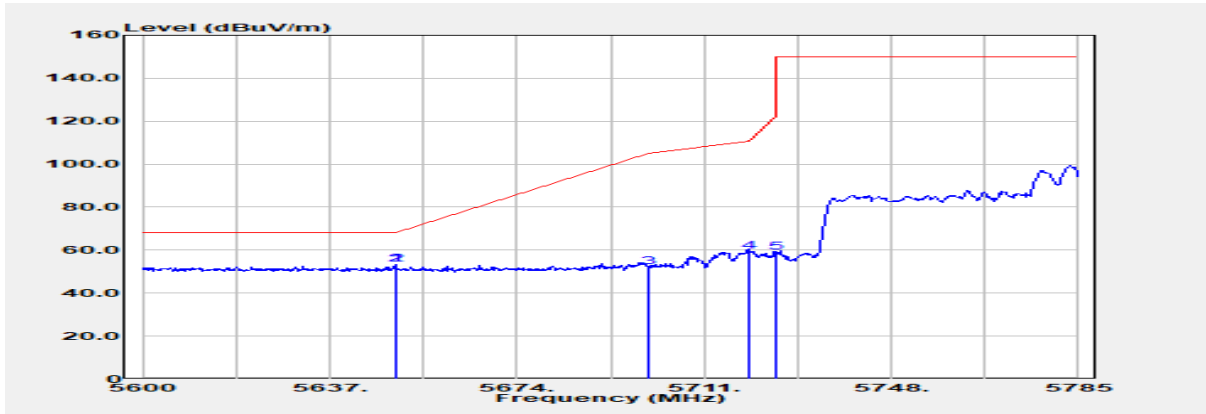
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax80
 Test Frequency :5775 MHz
 Test Mode :Bandedge RU 484/66
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5649.950	Peak	54.33	-0.92	53.41	68.20	-14.79
5650.000	Peak	54.33	-0.92	53.41	68.20	-14.79
5700.000	Peak	53.44	-1.25	52.19	105.20	-53.01
5720.000	Peak	60.05	-0.84	59.21	110.80	-51.59
5725.000	Peak	59.66	-0.74	58.91	122.20	-63.29

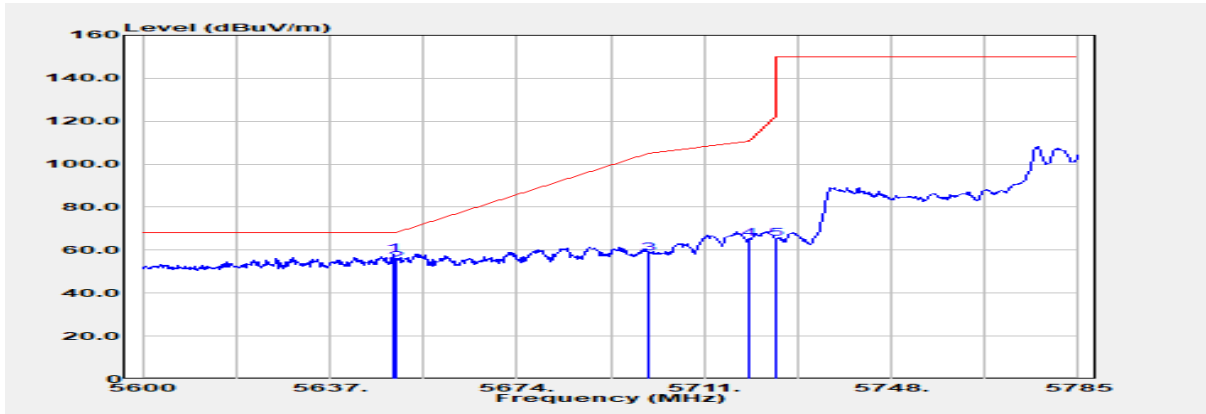
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax80
 Test Frequency :5775 MHz
 Test Mode :Bandedge RU 484/66
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5649.395	Peak	58.90	-0.91	57.99	68.20	-10.21
5650.000	Peak	55.56	-0.92	54.65	68.20	-13.55
5700.000	Peak	59.83	-1.25	58.58	105.20	-46.62
5720.000	Peak	66.28	-0.84	65.43	110.80	-45.37
5725.000	Peak	66.30	-0.74	65.55	122.20	-56.65

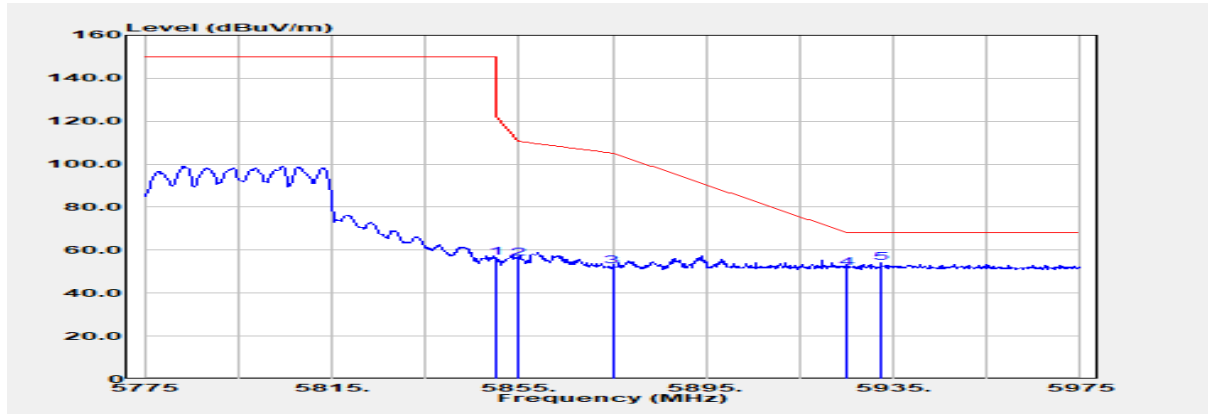
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax80
 Test Frequency :5775 MHz
 Test Mode :Bandedge RU 484/66
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.000	Peak	57.35	-0.65	56.69	122.20	-65.51
5855.000	Peak	56.67	-0.57	56.10	110.80	-54.70
5875.000	Peak	52.58	-0.24	52.34	105.20	-52.86
5925.000	Peak	51.55	0.22	51.76	68.20	-16.44
5932.400	Peak	53.90	0.23	54.13	68.20	-14.07

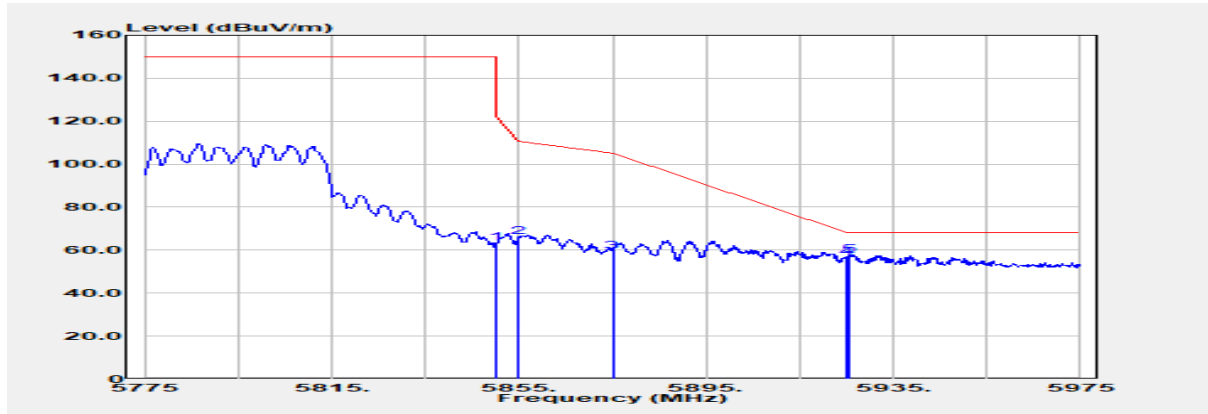
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Report Number :TERF2211002151E2
 Operation Mode :802.11ax80
 Test Frequency :5775 MHz
 Test Mode :Bandedge RU 484/66
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-02-04
 Temp./Humi. :24.4/40
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



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	64.09	-0.65	63.44	122.20	-58.76
5855.000	Peak	66.77	-0.57	66.20	110.80	-44.60
5875.000	Peak	59.52	-0.24	59.28	105.20	-45.92
5925.000	Peak	56.52	0.22	56.74	68.20	-11.46
5925.400	Peak	57.52	0.22	57.74	68.20	-10.46

~ End of Report ~

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