

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari, Nagaokakyou-shi, Kyoto 617-8555
Japan

Manufacturer: Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari, Nagaokakyou-shi, Kyoto 617-8555
Japan

Product Name: Communication Module

Brand Name: muRata

Model No.: LBEE5XV1YM

Model Difference: N/A

Report Number: TERF2402000378E2

FCC ID VPYLB1YM

IC: 772C-LB1YM

Date of EUT Received: February 20, 2024

Date of Test: February 21, 2024 ~ March 4, 2024

Issue Date: April 1, 2024

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, ISSED 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
TERF2402000378E2	00	Original.	April 1, 2024	Susan Lin	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Communication Module
Brand Name:	muRata
Model No.:	LBEE5XV1YM
Model Difference:	N/A
Hardware Version:	1.0
Firmware Version:	1.0
EUT Series No.:	38918
Power Supply:	3.3Vdc
Test Software (Name/Version):	DutApMimoBt / 1.0.0.172

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a, 11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 144.4 Mbps
	802.11 n_HT40: up to 300 Mbps
	802.11 ac_VHT20: up to 173.4 Mbps
	802.11 ac_VHT40: up to 400 Mbps
	802.11 ac_VHT80: up to 866.6 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Port	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Monopole	Devialet	LBEE5XV1YM	5150~5250	Path A	1.9	6.14
			5250~5350		1.9	6.14
			5470~5725		4.3	6.68
			5725~5850		4.5	6.26
			5150~5250	Path B	4.2	6.14
			5250~5350		4.2	6.14
			5470~5725		3.0	6.68
			5725~5850		1.8	6.26

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.

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1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20	5180~5240	4	12.40 dBm	OFDM
	5260~5320	4	18.63 dBm	OFDM
	5500~5720	12	18.48 dBm	OFDM
	5745-5825	5	19.96 dBm	OFDM
802.11n_HT40	5190~5230	2	14.48 dBm	OFDM
	5270~5310	2	17.39 dBm	OFDM
	5510~5710	6	17.41 dBm	OFDM
	5755-5795	2	18.59 dBm	OFDM
802.11ac_VHT80	5210	1	9.49 dBm	OFDM
	5290	1	9.45 dBm	OFDM
	5530~5690	3	16.60 dBm	OFDM
	5775	1	16.53 dBm	OFDM

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1.5 ISED

WLAN 5 GHz for ISED (Slave)

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)		Modulation Technology
802.11a/ 802.11n_HT20	5180~5240	4	EIRP	20.16	dBm	OFDM
	5260~5320	4	Avg	18.63	dBm	OFDM
	5500~5720	9	Avg	18.48	dBm	OFDM
	5745-5825	5	Avg	19.96	dBm	OFDM
802.11n_HT40	5190~5230	2	EIRP	22.24	dBm	OFDM
	5270~5310	2	Avg	17.39	dBm	OFDM
	5510~5710	4	Avg	17.41	dBm	OFDM
	5755-5795	2	Avg	18.59	dBm	OFDM
802.11ac_VHT80	5210	1	EIRP	17.25	dBm	OFDM
	5290	1	Avg	9.45	dBm	OFDM
	5530~5690	2	Avg	9.11	dBm	OFDM
	5775	1	Avg	16.53	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

FCC KDB 291074 D02 EMC Measurement v01

RSS-247 issue 3 Aug. 2023

RSS-Gen, issue 5 April, 2018

ANSI C63.10:2013

1.7 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion 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 indica- tion where measurements occurred in specific test site and address.				

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

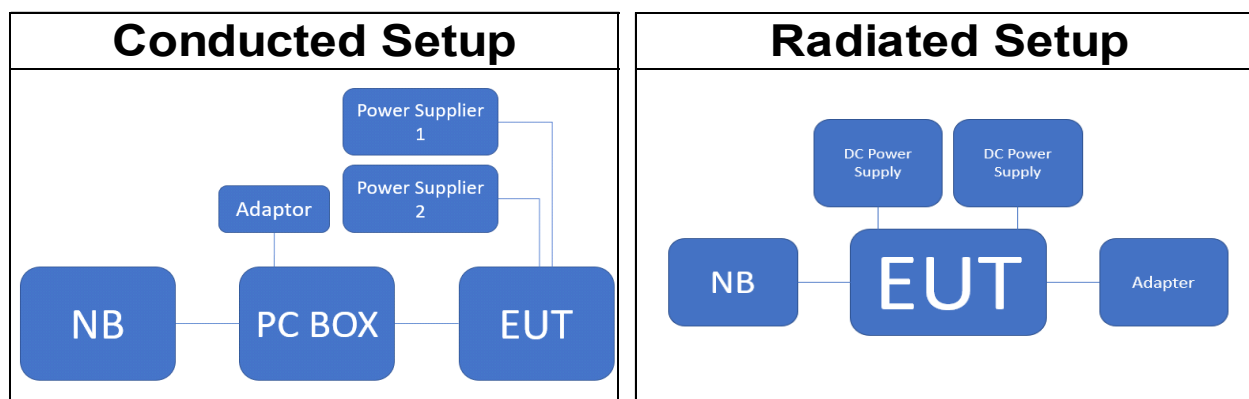
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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 C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T14	P0003332	N/A	N/A
LAN Cable	ELECOM	KB-FL7-03BLN	N/A	N/A	N/A
USB cable	Qualtek	3025033	N/A	N/A	N/A
Adapter	FSP GROUP INC.	FSP065-REBN2	N/A	N/A	N/A
BRIX	GIGABYTE	GB-BX17-4500	N/A	N/A	N/A

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A
Adapter	GIGABYTE	FSP065-REB	N/A	N/A	N/A
USB cable	Qualtek	3025033	N/A	N/A	N/A
PCI cable	Samtec	HQCD	N/A	N/A	N/A
LAN cable	ELECOM	KB-FL7-03BLN	N/A	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) RSS-247 §6.2.5 (2)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~3 (2) §6.2.4 (3) RSS-247 §6.2.5 (3)	Undesirable Radiated Emissions	Compliant

Note

1. This is an addendum test report reference to the test report ER/2020/C0065.

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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		160 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290	50	5250
56	5280	62	5310				
60	5300						
64	5320						

Operated band in 5470 MHz ~5725 MHz:

20 M		40 M		80 M		160 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
100	5500	102	5510	106	5530	114	5570
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				

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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
☒ 802.11 a	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☐ 1TX	☒ 2TX
☒ 802.11 n	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☐ SISO	☒ MIMO
☒ 802.11 ac	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☐ SISO	☒ 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.

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	MIMO
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MIMO
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			

TRANSMIT 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	44	OFDM	6	2TX
	5260~5320	52 to 64	60			
	5500~5720	100 to 144	116			
	5745~5825	149 to 165	157			

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TRANSMIT 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	36,48	OFDM	6	2TX
	5260~5320	52 to 64	60,64			
	5500~5720	100 to 144	100,116,140			
	5745~5825	149 to 165	149,165			
802.11n_HT20	5180~5240	36 to 48	36,48	OFDM	MCS0	MIMO
	5260~5320	52 to 64	64			
	5500~5720	100 to 144	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MIMO
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5690	106 to 138	106,122			
	5775	155	155			

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	+/- 1.54 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 dB	140GHz-220GHz

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 C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/23/2023	05/22/2024
Power Meter	Anritsu	ML2496A	2138002	08/31/2023	08/30/2024
Power Sensor	Anritsu	MA2411B	1911390	08/31/2023	08/30/2024
Power Sensor	Anritsu	MA2411B	1911398	08/31/2023	08/30/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
DC Power Supply	DHA	DPS-3003	9411005787	08/21/2023	08/20/2024
DC Power Supply	Gwinstek	SPS-3610	GEV856769	08/04/2023	08/03/2024
Attenuator	Woken	WATT-218FS-10	RF18	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF19	11/15/2023	11/14/2024
DC Block	PASTERNAK	PE8210	RF158	11/15/2023	11/14/2024

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	9168-617	12/14/2023	12/13/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/26/2023	05/25/2024
Loop Antenna	ETS.LINDGREN	6502	143303	05/23/2023	05/22/2024
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/21/2023	08/20/2024
3m Site NSA	SGS	966 chamber D	N/A	04/30/2023	04/29/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/29/2023	03/28/2024
DC Power Supply	HOLA	DP-3003	D7070035	06/12/2023	06/11/2024
DC Power Supply	Gwinstek	SPS-3610	GEW902165	01/17/2024	01/16/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM-7200	150703	11/15/2023	11/14/2024

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.

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7.1.2 FCC

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
		Outdoor 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
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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7.1.3 ISED

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
	V	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	$-13 \text{ dBW/MHz for } 0^\circ \leq \theta < 8^\circ$ $-13 - 0.716 (\theta - 8) \text{ dBW/MHz for } 8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22 (\theta - 40) \text{ dBW/MHz for } 40^\circ \leq \theta \leq 45^\circ$ $-42 \text{ dBW/MHz for } \theta > 45^\circ$	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	V	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	V	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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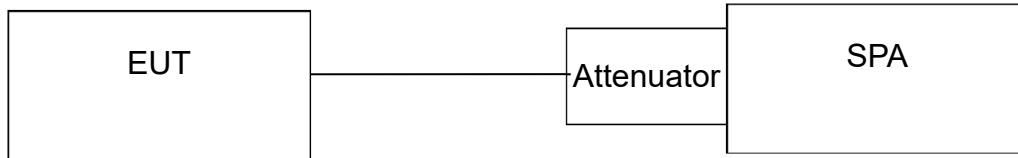
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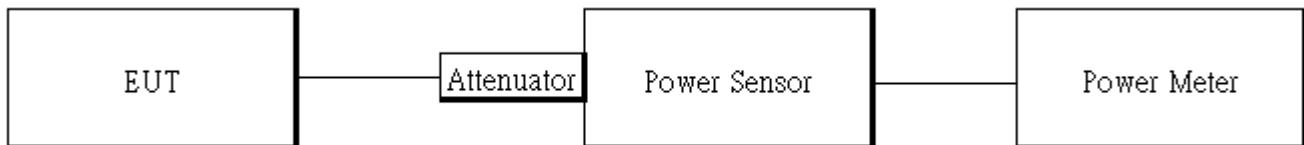
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7.2 Test Setup

7.2.1 Duty Cycle



7.2.2 Output Power



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 $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + $10 \log (N)$, where N is number of transmitting antenna, cable loss is specified below.

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.

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

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, therefore the power limit has been attenuated accordingly.

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	96.82	0.14	0.32	1.00
802.11n_20	97.91	0.09	0.21	1.00
802.11ac_20	97.91	0.09	0.21	1.00
802.11n_40	95.78	0.19	0.43	1.00
802.11ac_40	95.78	0.19	0.43	1.00
802.11ac_80	95.86	0.18	0.43	1.00

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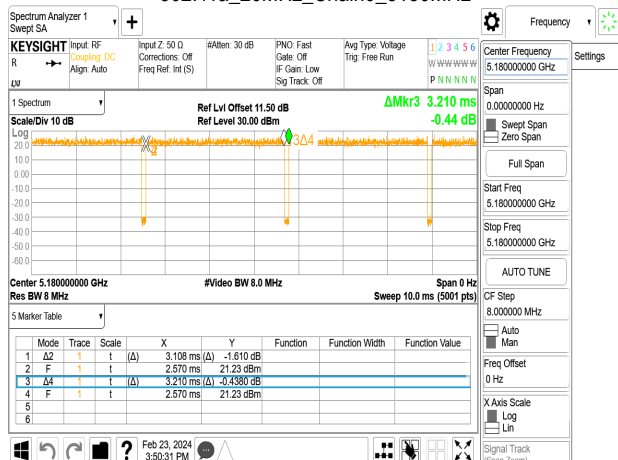
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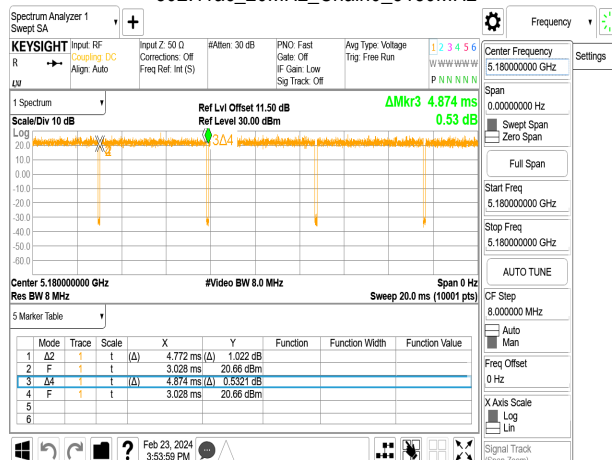
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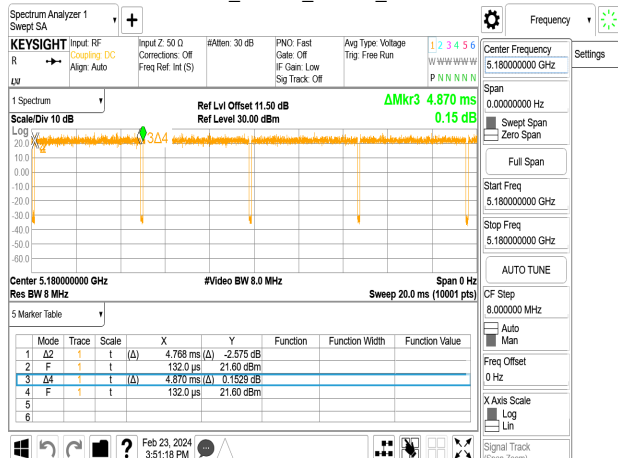
802.11a_20MHz_Chain0_5180MHz



802.11ac_20MHz_Chain0_5180MHz



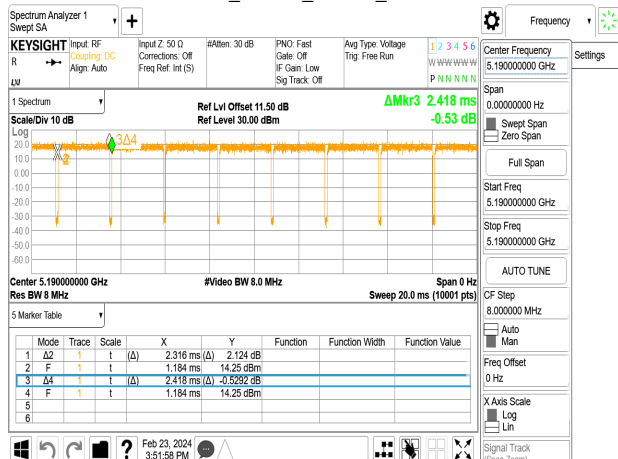
802.11n_20MHz_Chain0_5180MHz



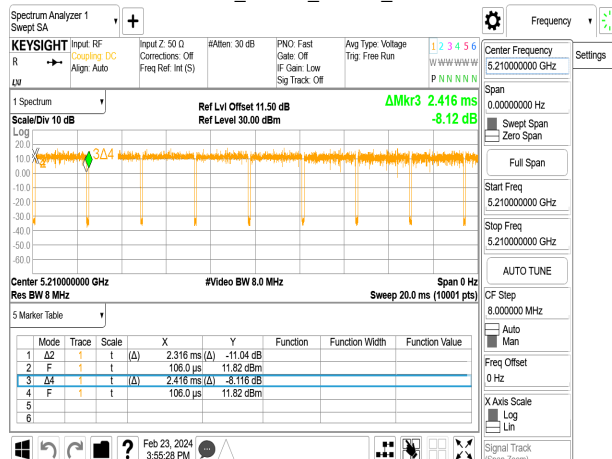
802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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7.5 Output Power Measurement Result

7.5.1 FCC Output power

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
64	5320	MCS0	7.5	9.466	9.76	23.98	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
64	5320	MCS0	7.5	9.208	9.64	23.98	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
64	5320	MCS0	12.5	14.35	13.77	51.071	17.08	22.22	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	MCS0	11	22.252	13.47	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	MCS0	11	21.695	13.36	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
155	5775	MCS0	12	13.64	13.39	44.985	16.53	28.24	PASS

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7.5.2 ISD Conducted output power and EIRP

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
64	5320	9.466	9.76	23.98	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
64	5320	9.208	9.64	23.98	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
64	5320	14.35	13.77	51.071	17.08	23.98	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	22.252	13.47	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	21.695	13.36	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
155	5775	13.64	13.39	44.985	16.53	28.24	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
64	5320	9.76	4.75	28.249	14.51	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
64	5320	9.64	4.75	27.479	14.39	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
64	5320	17.08	7.76	304.789	24.84	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	13.47	4.75	66.374	18.22	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	13.36	4.75	64.714	18.11	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	16.53	7.76	268.534	24.29	30	PASS

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8 UNDESIRABLE RADIATED EMISSION MEASUREMENT

8.1 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.

8.1.1 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	$f \leq 5150$ $f \geq 5350$	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 §6.2.4.3	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:

- The lower limit shall apply at the transition frequencies.

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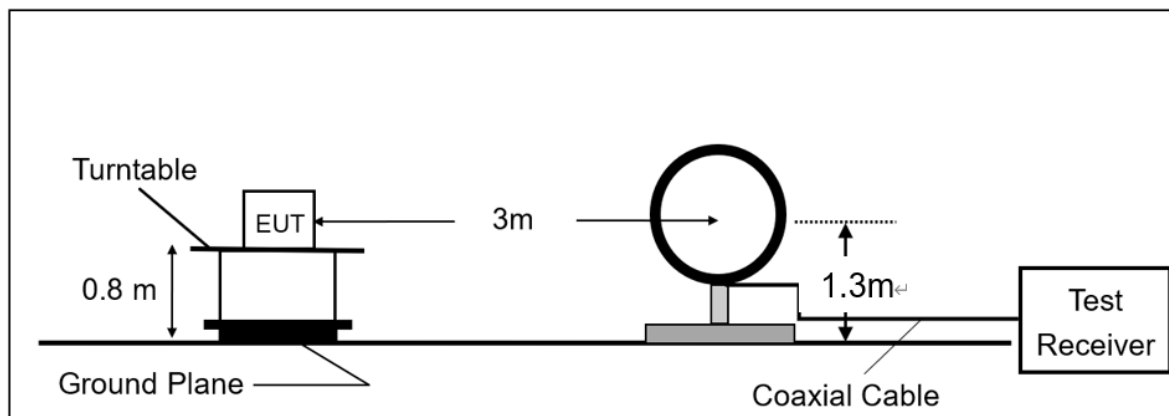
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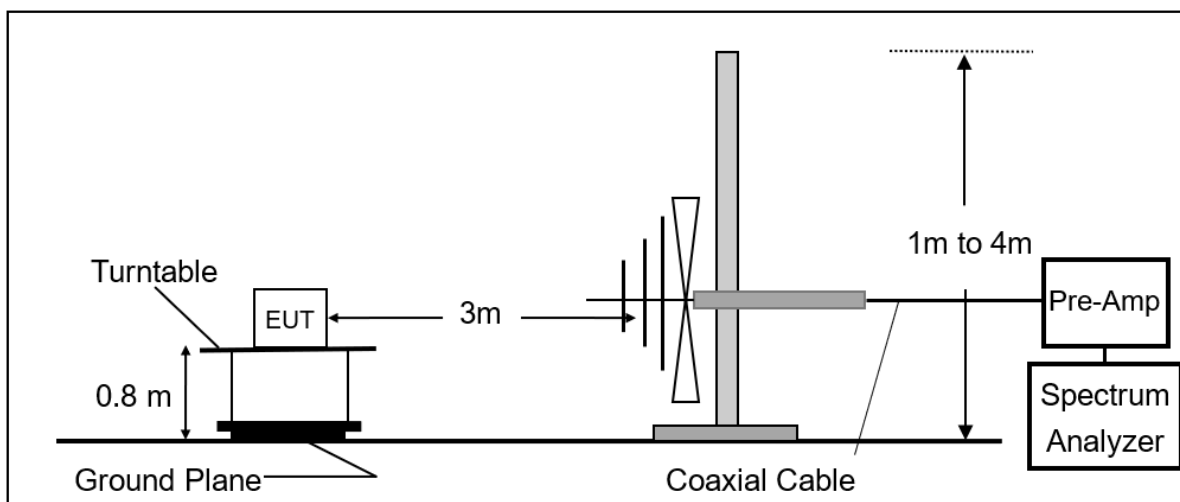
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8.2 Test Setup

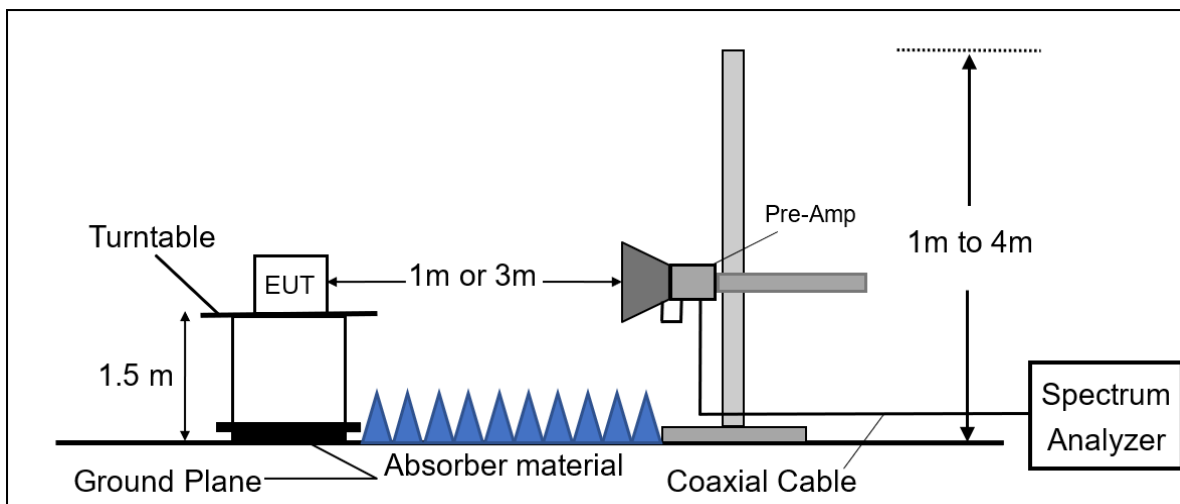
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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 $20 \cdot \log(\mu V/m)$

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

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$$\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre_Amplifier Gain(dB)}$$

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.

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

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8.6 Radiated Spurious Emission Measurement Result

8.6.1 Spurious Emission

Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-27

Test Frequency :5220 MHz

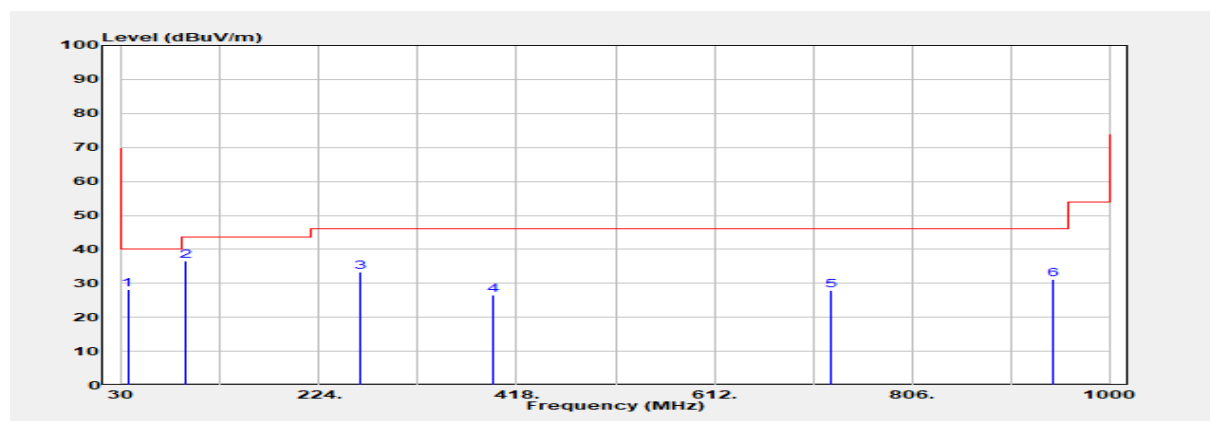
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



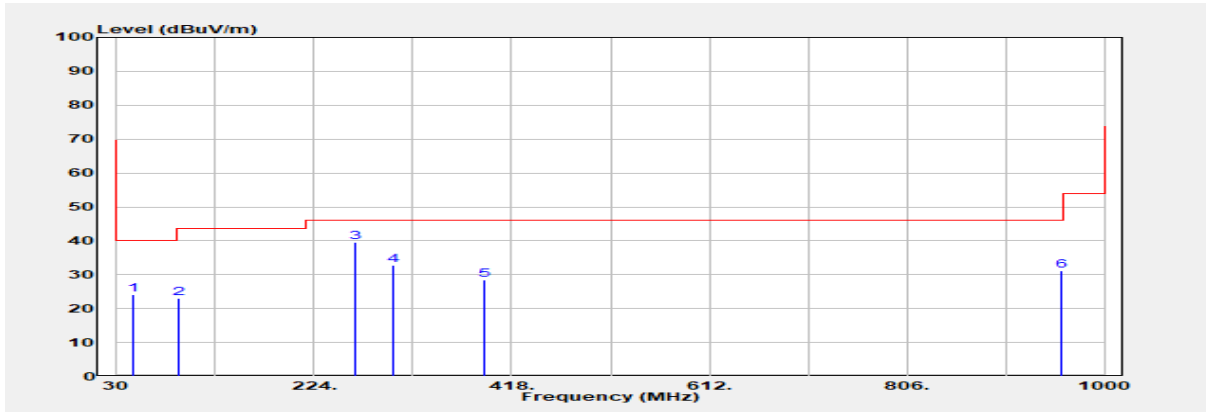
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
35.820	Peak	46.50	-18.19	28.31	40.00	-11.69
93.050	Peak	59.32	-22.61	36.71	43.50	-6.79
263.770	Peak	50.39	-16.96	33.44	46.00	-12.56
394.720	Peak	40.07	-13.41	26.66	46.00	-19.34
727.430	Peak	35.02	-7.05	27.97	46.00	-18.03
944.710	Peak	35.13	-4.08	31.04	46.00	-14.96

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Report Number :TERF2402000378E2
 Operation Mode :802.11a
 Test Frequency :5220 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-27
 Temp./Humi. :20.1°C/51%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



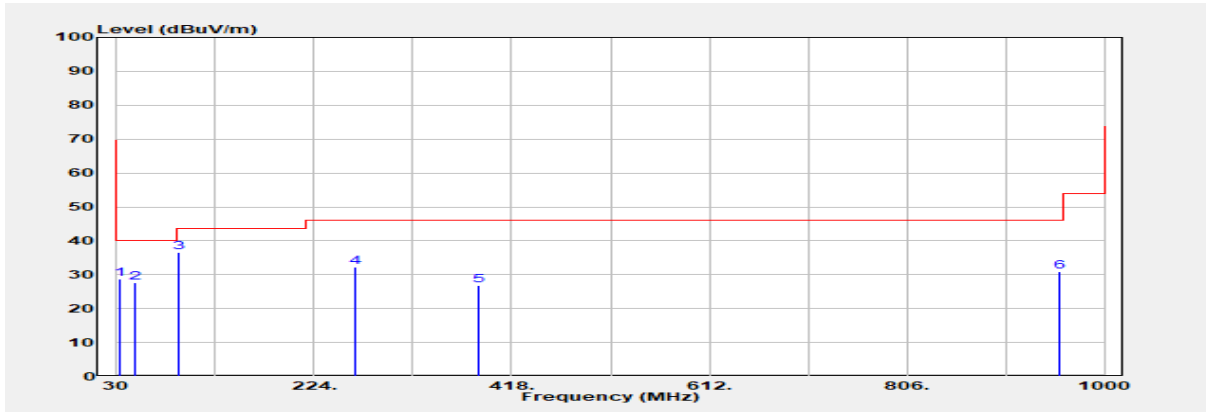
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
45.520	Peak	40.89	-16.90	23.99	40.00	-16.01
91.110	Peak	45.86	-22.80	23.06	43.50	-20.44
263.770	Peak	56.47	-16.96	39.52	46.00	-6.48
301.600	Peak	48.51	-15.66	32.85	46.00	-13.15
391.810	Peak	42.06	-13.50	28.56	46.00	-17.44
957.320	Peak	35.24	-4.00	31.24	46.00	-14.76

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Report Number :TERF2402000378E2
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-27
 Temp./Humi. :20.1°C/51%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



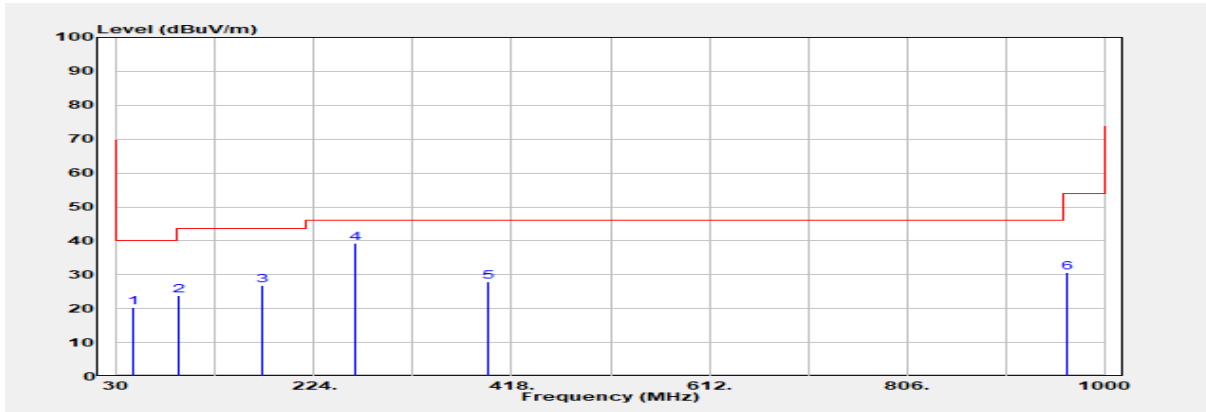
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.880	Peak	47.11	-18.50	28.61	40.00	-11.39
48.430	Peak	44.40	-16.78	27.62	40.00	-12.38
91.110	Peak	59.46	-22.80	36.66	43.50	-6.84
263.770	Peak	49.22	-16.96	32.27	46.00	-13.73
385.990	Peak	40.35	-13.52	26.83	46.00	-19.17
955.380	Peak	34.91	-4.04	30.87	46.00	-15.13

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Report Number :TERF2402000378E2
 Operation Mode :802.11a
 Test Frequency :5300 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-27
 Temp./Humi. :20.1°C/51%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



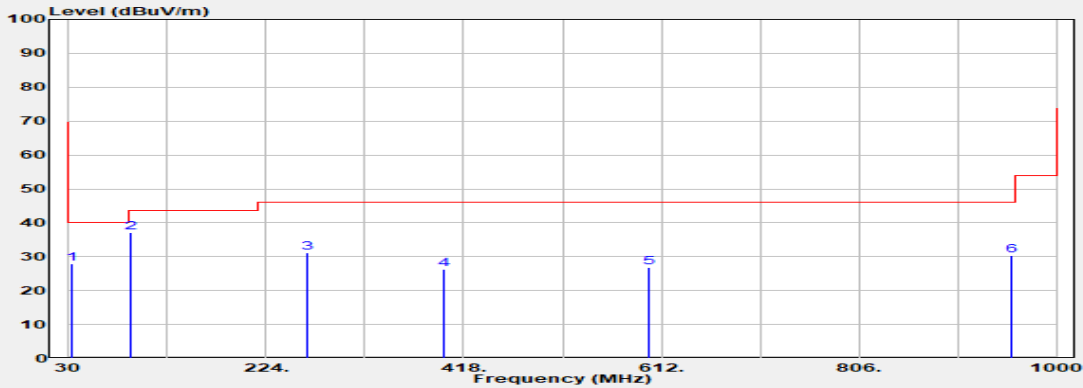
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
46.490	Peak	37.23	-16.79	20.44	40.00	-19.56
91.110	Peak	46.66	-22.80	23.86	43.50	-19.64
172.590	Peak	43.77	-17.04	26.73	43.50	-16.77
263.770	Peak	56.15	-16.96	39.19	46.00	-6.81
394.720	Peak	41.22	-13.41	27.81	46.00	-18.19
963.140	Peak	34.78	-4.08	30.71	54.00	-23.29

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Report Number :TERF2402000378E2
Operation Mode :802.11a
Test Frequency :5580 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Vertical
Engineer :Sam Huang



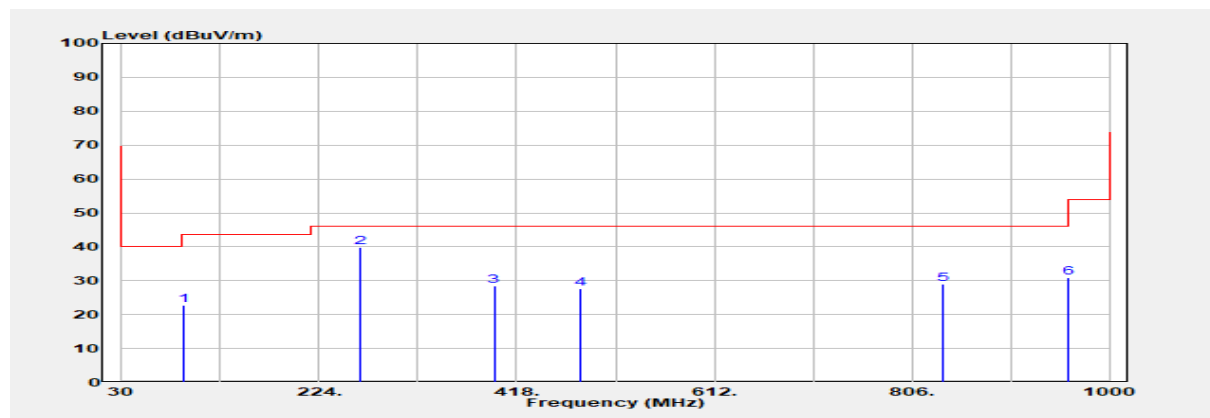
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
32.910	Peak	46.50	-18.64	27.86	40.00	-12.14
91.110	Peak	59.92	-22.80	37.12	43.50	-6.38
263.770	Peak	48.18	-16.96	31.22	46.00	-14.78
397.630	Peak	39.67	-13.37	26.31	46.00	-19.69
600.360	Peak	36.03	-9.11	26.92	46.00	-19.08
956.350	Peak	34.29	-4.02	30.27	46.00	-15.73

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Report Number :TERF2402000378E2
Operation Mode :802.11a
Test Frequency :5580 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Horizontal
Engineer :Sam Huang



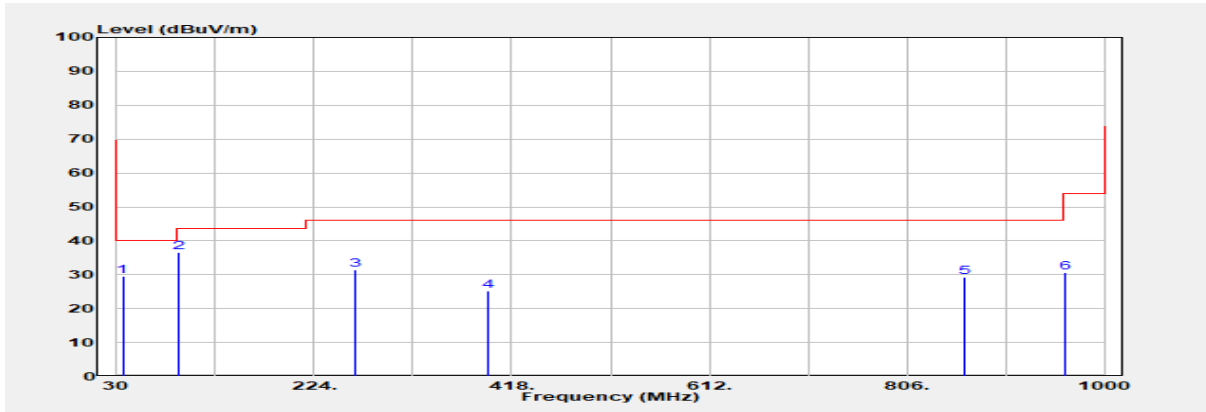
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
90.140	Peak	45.47	-22.67	22.80	43.50	-20.70
263.770	Peak	56.88	-16.96	39.92	46.00	-6.08
395.690	Peak	41.88	-13.39	28.49	46.00	-17.51
480.080	Peak	39.17	-11.62	27.55	46.00	-18.45
837.040	Peak	34.60	-5.66	28.94	46.00	-17.06
960.230	Peak	34.90	-3.95	30.95	54.00	-23.05

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Report Number :TERF2402000378E2
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-27
 Temp./Humi. :20.1°C/51%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



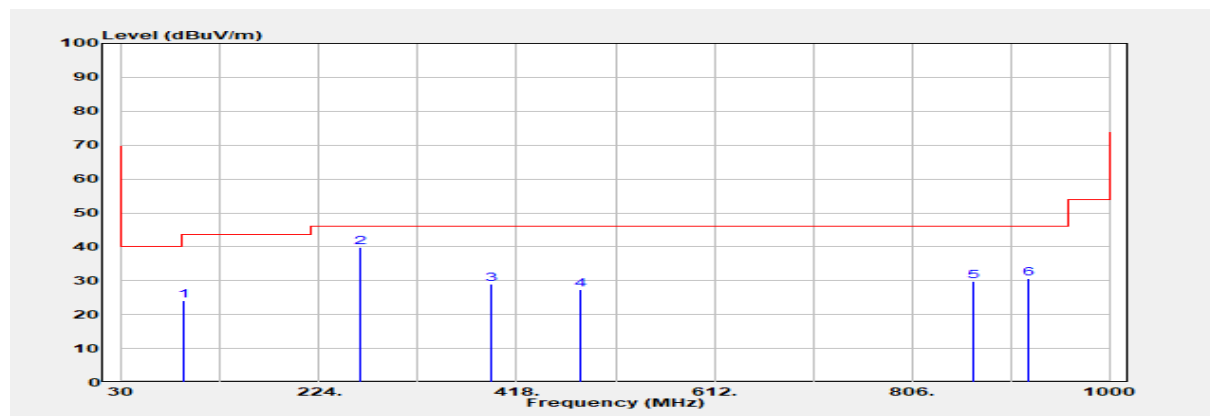
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
35.820	Peak	47.60	-18.19	29.41	40.00	-10.59
91.110	Peak	59.41	-22.80	36.61	43.50	-6.89
263.770	Peak	48.33	-16.96	31.37	46.00	-14.63
394.720	Peak	38.58	-13.41	25.17	46.00	-20.83
863.230	Peak	35.27	-5.92	29.34	46.00	-16.66
961.200	Peak	34.63	-3.99	30.64	54.00	-23.36

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Report Number :TERF2402000378E2
 Operation Mode :802.11a
 Test Frequency :5785 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-27
 Temp./Humi. :20.1°C/51%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
91.110	Peak	46.89	-22.80	24.09	43.50	-19.41
263.770	Peak	56.82	-16.96	39.87	46.00	-6.13
392.780	Peak	42.48	-13.47	29.00	46.00	-17.00
480.080	Peak	39.09	-11.62	27.47	46.00	-18.53
866.140	Peak	35.69	-5.95	29.74	46.00	-16.26
920.460	Peak	35.08	-4.39	30.69	46.00	-15.31

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-27

Test Frequency :5240 MHz

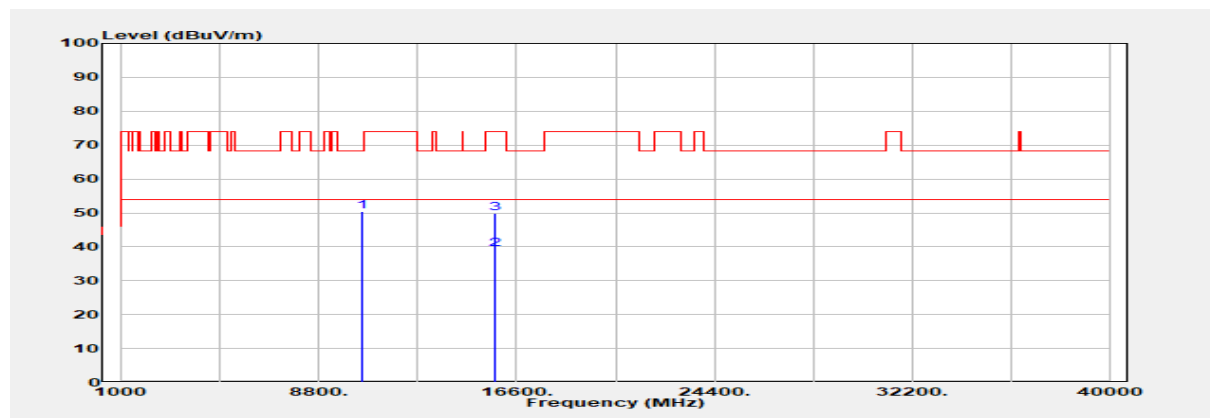
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.000	Peak	37.38	13.15	50.54	68.20	-17.66
15720.000	Average	26.04	13.38	39.42	54.00	-14.58
15720.000	Peak	36.58	13.38	49.96	74.00	-24.04

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-27

Test Frequency :5240 MHz

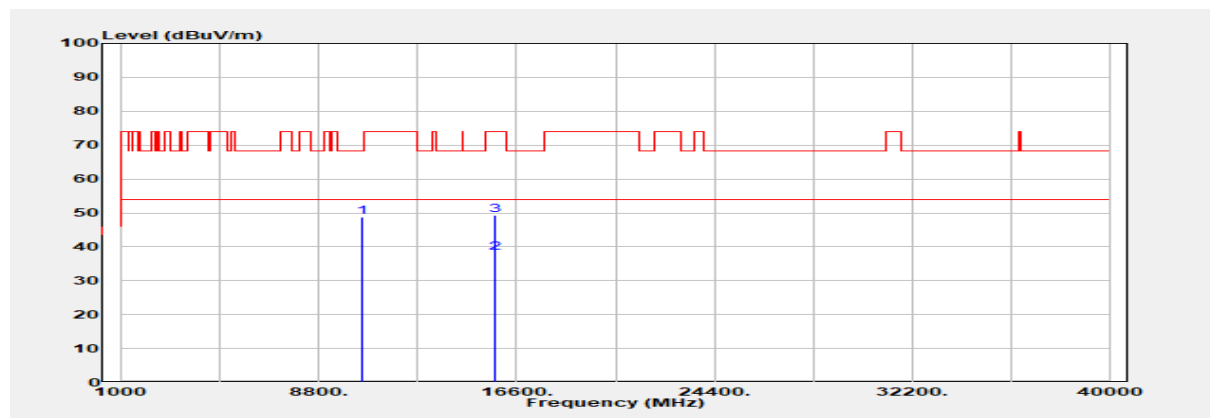
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



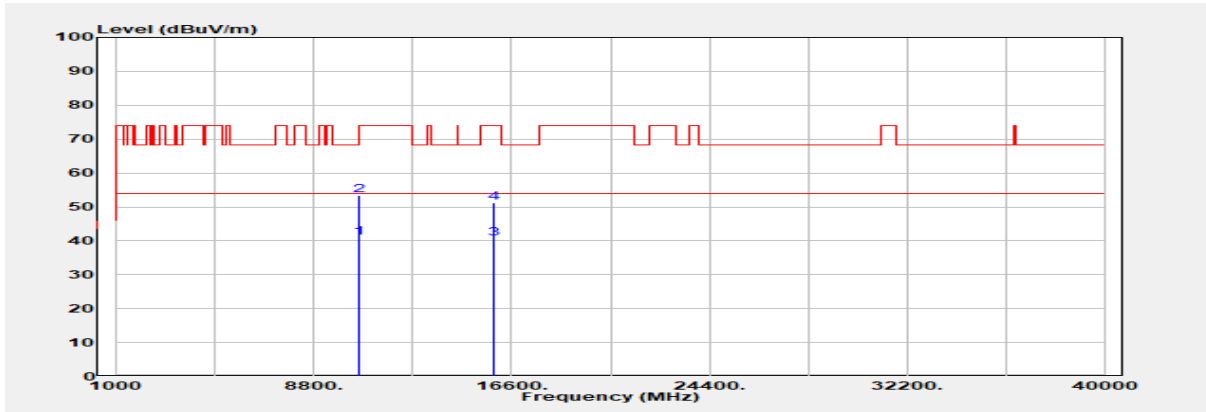
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.000	Peak	35.70	13.15	48.85	68.20	-19.35
15720.000	Average	24.92	13.38	38.30	54.00	-15.70
15720.000	Peak	35.98	13.38	49.35	74.00	-24.65

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Report Number :TERF2402000378E2
Operation Mode :802.11a
Test Frequency :5300 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Vertical
Engineer :Sam Huang



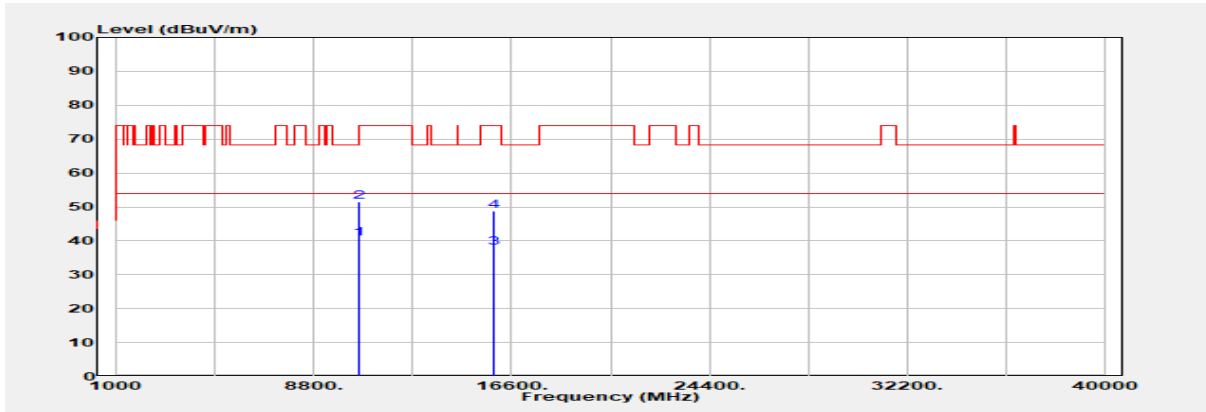
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.000	Average	27.26	13.63	40.89	54.00	-13.11
10600.000	Peak	39.79	13.63	53.42	74.00	-20.58
15900.000	Average	27.42	13.36	40.78	54.00	-13.22
15900.000	Peak	37.80	13.36	51.16	74.00	-22.84

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Report Number :TERF2402000378E2
Operation Mode :802.11a
Test Frequency :5300 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Horizontal
Engineer :Sam Huang



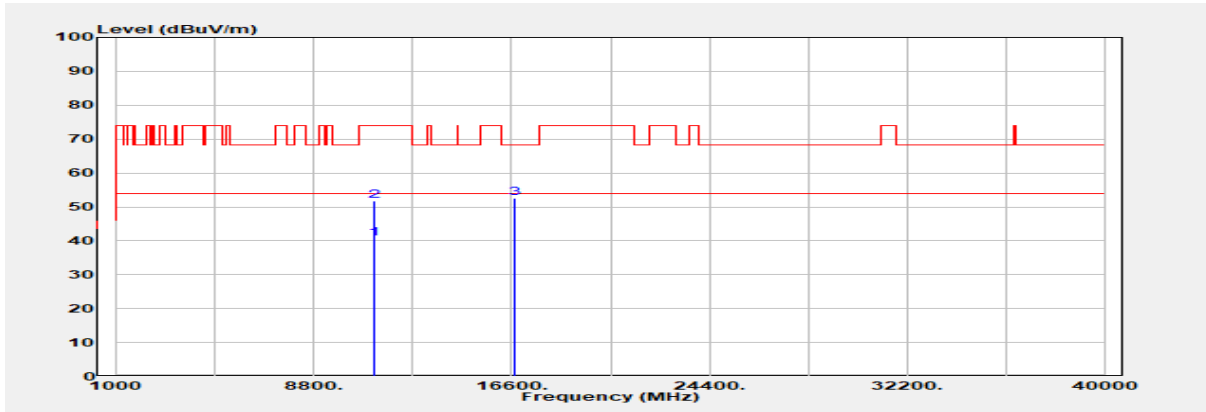
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.000	Average	26.89	13.63	40.52	54.00	-13.48
10600.000	Peak	37.85	13.63	51.48	74.00	-22.52
15900.000	Average	24.70	13.36	38.06	54.00	-15.94
15900.000	Peak	35.32	13.36	48.68	74.00	-25.32

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Report Number :TERF2402000378E2
Operation Mode :802.11a
Test Frequency :5580 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Vertical
Engineer :Sam Huang



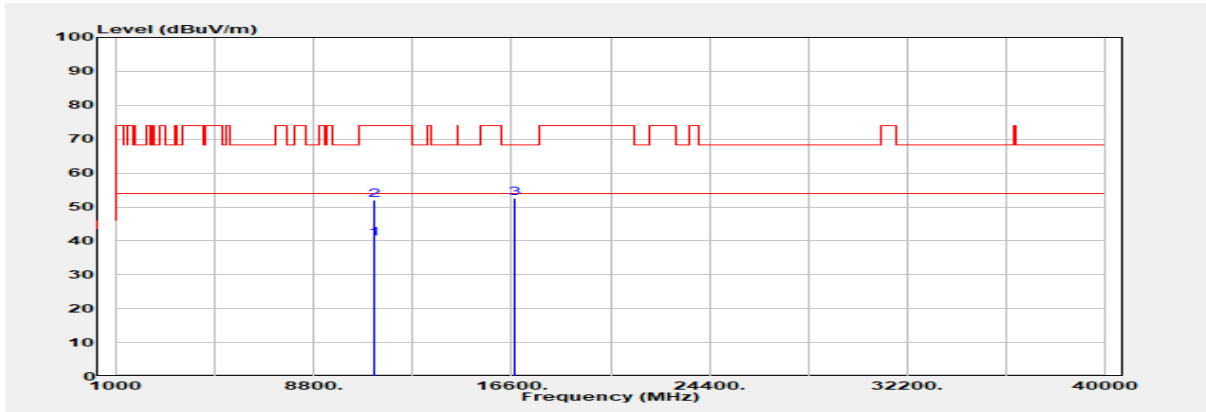
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.000	Average	26.81	13.93	40.74	54.00	-13.26
11160.000	Peak	37.84	13.93	51.77	74.00	-22.23
16740.000	Peak	36.03	16.61	52.64	68.20	-15.56

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Report Number :TERF2402000378E2
Operation Mode :802.11a
Test Frequency :5580 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Horizontal
Engineer :Sam 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	26.77	13.93	40.70	54.00	-13.30
11160.000	Peak	38.03	13.93	51.96	74.00	-22.04
16740.000	Peak	36.05	16.61	52.66	68.20	-15.54

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-27

Test Frequency :5745 MHz

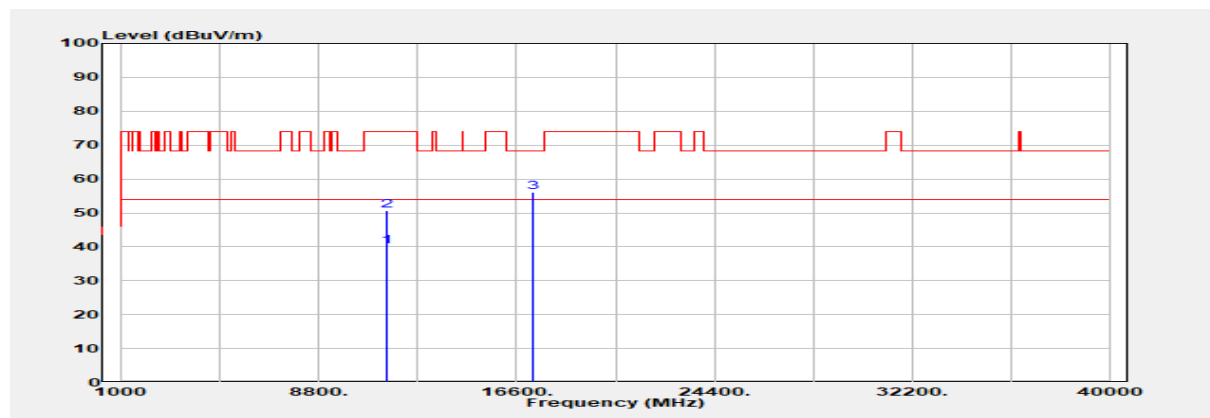
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.000	Average	26.65	13.46	40.11	54.00	-13.89
11490.000	Peak	37.22	13.46	50.68	74.00	-23.32
17235.000	Peak	37.89	18.13	56.03	68.20	-12.17

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-27

Test Frequency :5745 MHz

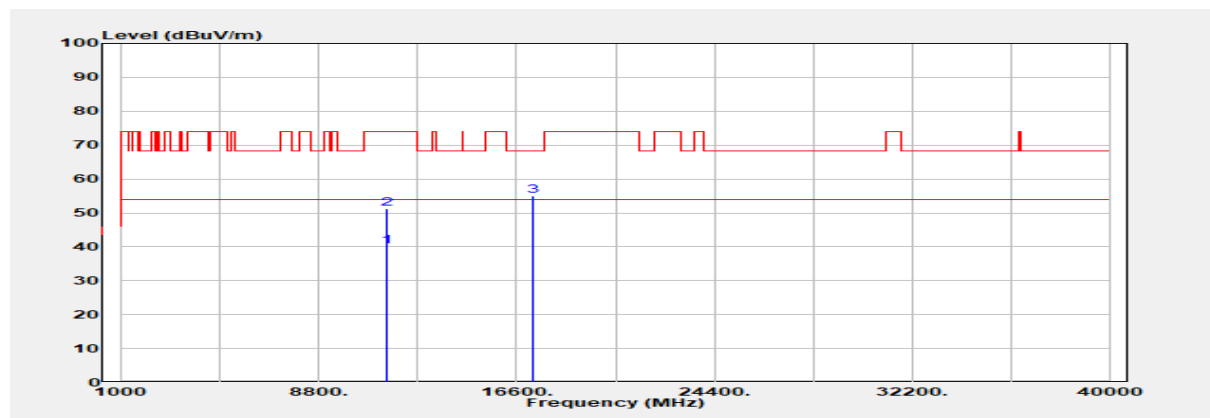
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.000	Average	26.70	13.46	40.16	54.00	-13.84
11490.000	Peak	37.71	13.46	51.17	74.00	-22.83
17235.000	Peak	36.89	18.13	55.03	68.20	-13.17

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-27

Test Frequency :5240 MHz

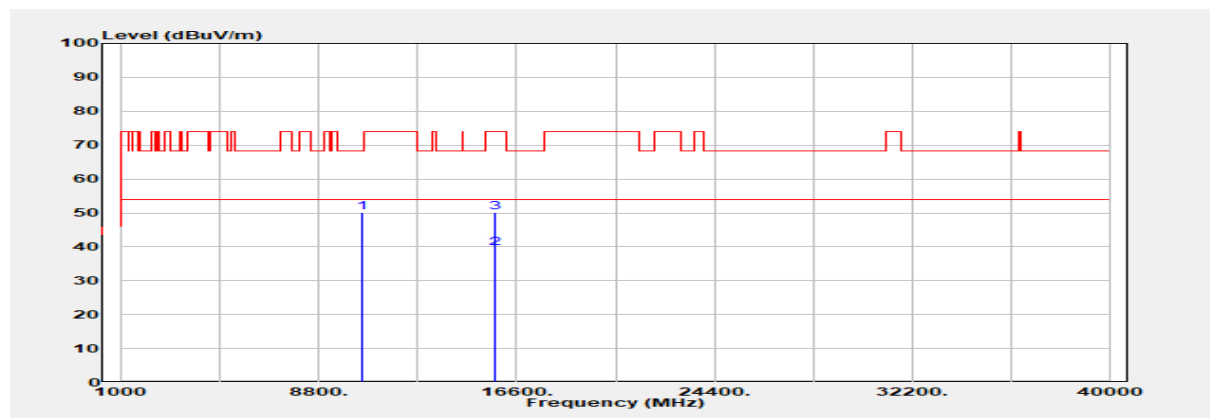
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.000	Peak	37.03	13.15	50.19	68.20	-18.01
15720.000	Average	26.11	13.38	39.48	54.00	-14.52
15720.000	Peak	36.71	13.38	50.09	74.00	-23.91

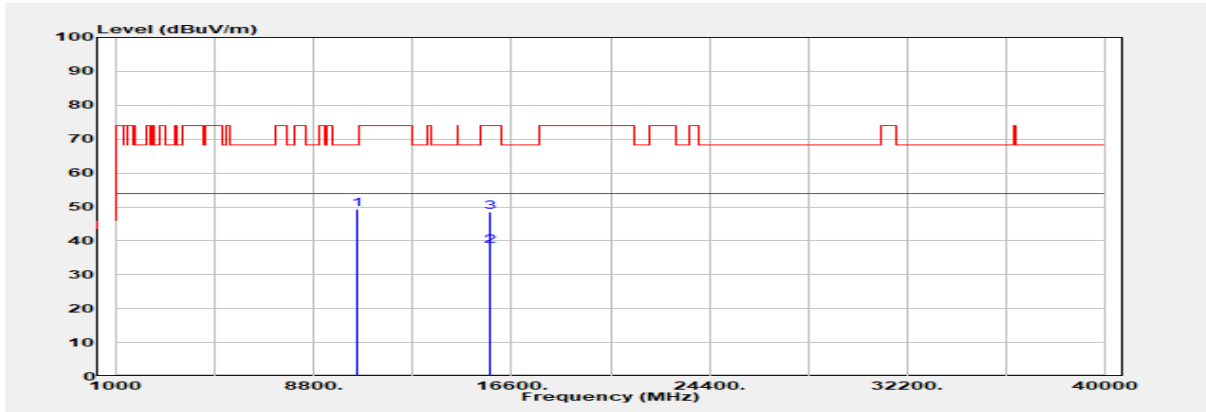
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Report Number :TERF2402000378E2
Operation Mode :802.11n20
Test Frequency :5240 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Horizontal
Engineer :Sam Huang



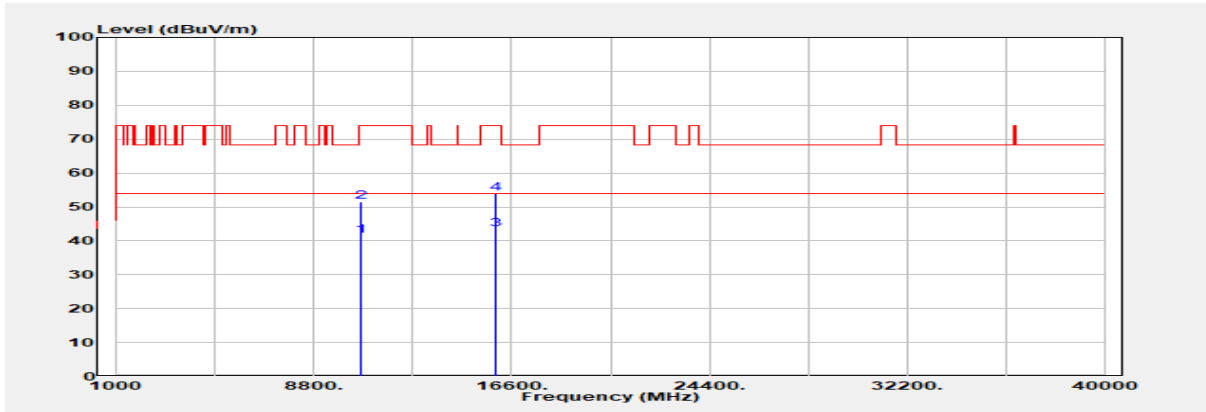
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.000	Peak	36.28	13.15	49.44	68.20	-18.76
15720.000	Average	25.04	13.38	38.42	54.00	-15.58
15720.000	Peak	35.04	13.38	48.41	74.00	-25.59

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Report Number :TERF2402000378E2
Operation Mode :802.11n20
Test Frequency :5320 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Vertical
Engineer :Sam Huang



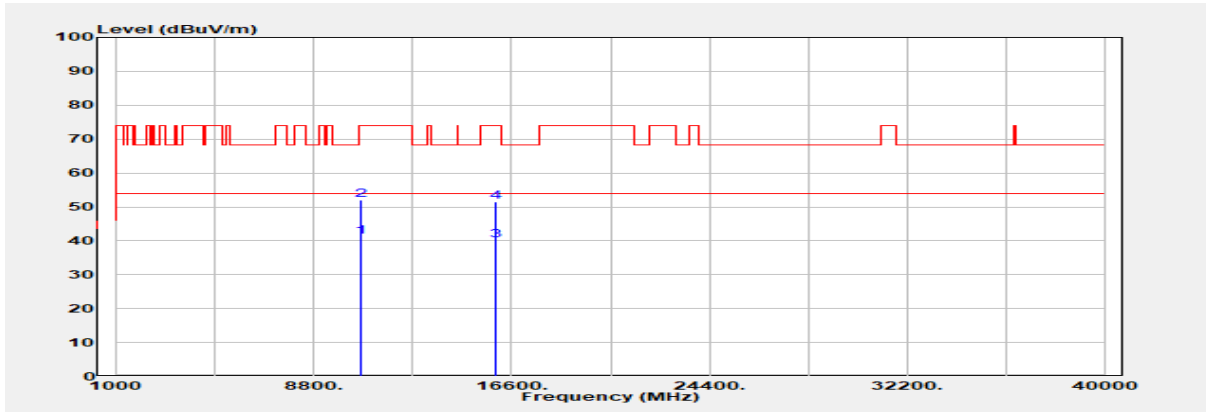
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.000	Average	27.50	14.09	41.59	54.00	-12.41
10640.000	Peak	37.33	14.09	51.41	74.00	-22.59
15960.000	Average	29.21	14.23	43.44	54.00	-10.56
15960.000	Peak	39.69	14.23	53.92	74.00	-20.08

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Report Number :TERF2402000378E2
Operation Mode :802.11n20
Test Frequency :5320 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Horizontal
Engineer :Sam 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	27.15	14.09	41.23	54.00	-12.77
10640.000	Peak	38.06	14.09	52.15	74.00	-21.85
15960.000	Average	25.99	14.23	40.22	54.00	-13.78
15960.000	Peak	37.13	14.23	51.36	74.00	-22.64

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-27

Test Frequency :5580 MHz

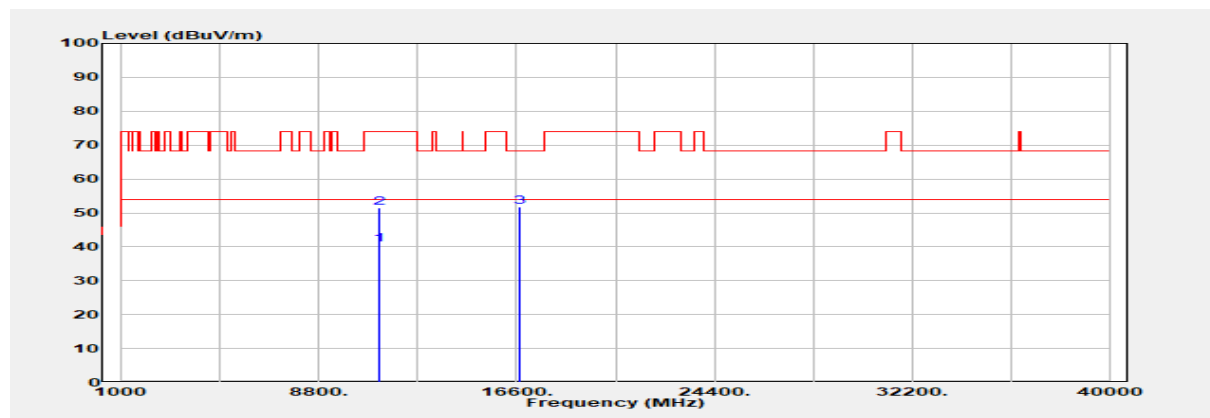
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam 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	26.74	13.93	40.67	54.00	-13.33
11160.000	Peak	37.55	13.93	51.48	74.00	-22.52
16740.000	Peak	35.14	16.61	51.75	68.20	-16.45

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-27

Test Frequency :5580 MHz

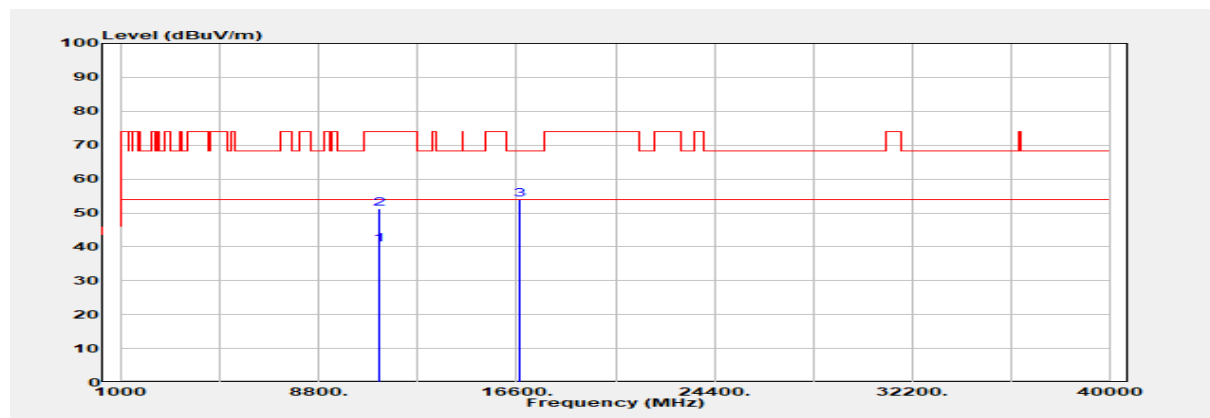
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam 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	26.64	13.93	40.57	54.00	-13.43
11160.000	Peak	37.18	13.93	51.11	74.00	-22.89
16740.000	Peak	37.32	16.61	53.93	68.20	-14.27

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-27

Test Frequency :5785 MHz

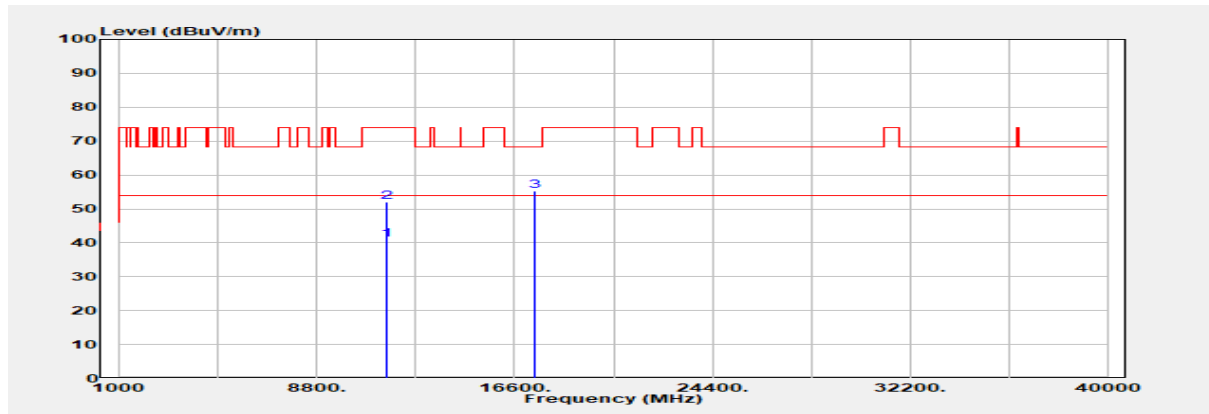
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam 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
11570.000	Average	26.50	14.43	40.94	54.00	-13.06
11570.000	Peak	37.58	14.43	52.01	74.00	-21.99
17355.000	Peak	36.25	18.91	55.16	68.20	-13.04

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-27

Test Frequency :5785 MHz

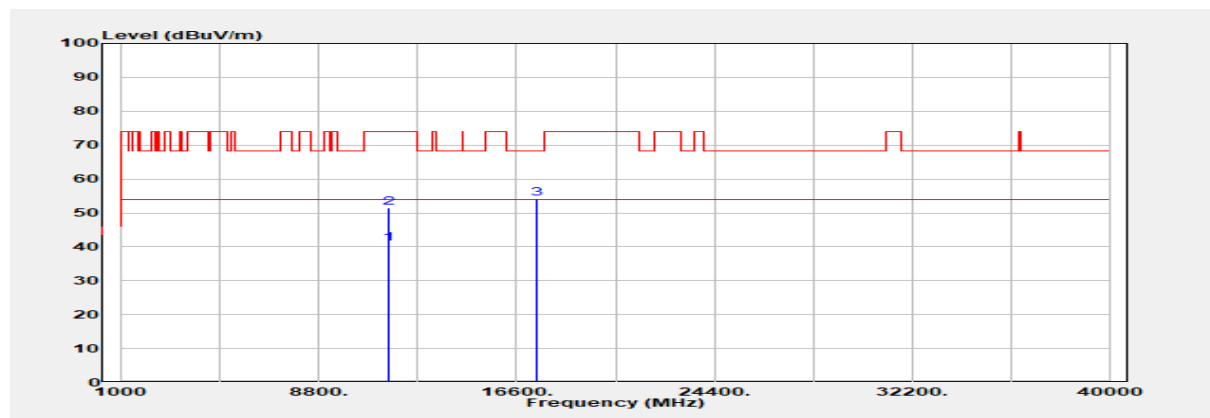
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



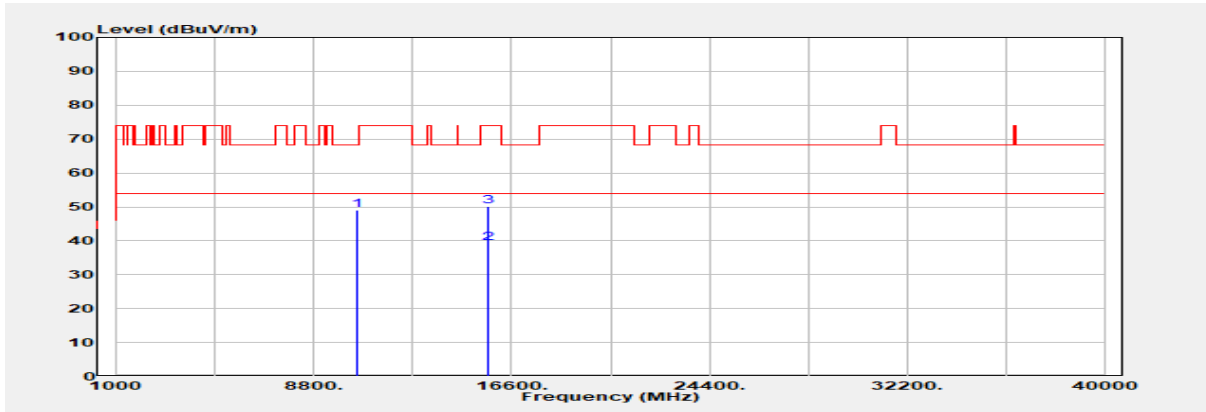
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.000	Average	26.46	14.43	40.89	54.00	-13.11
11570.000	Peak	37.08	14.43	51.51	74.00	-22.49
17355.000	Peak	35.33	18.91	54.24	68.20	-13.96

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Report Number :TERF2402000378E2
Operation Mode :802.11n40
Test Frequency :5230 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Vertical
Engineer :Sam Huang



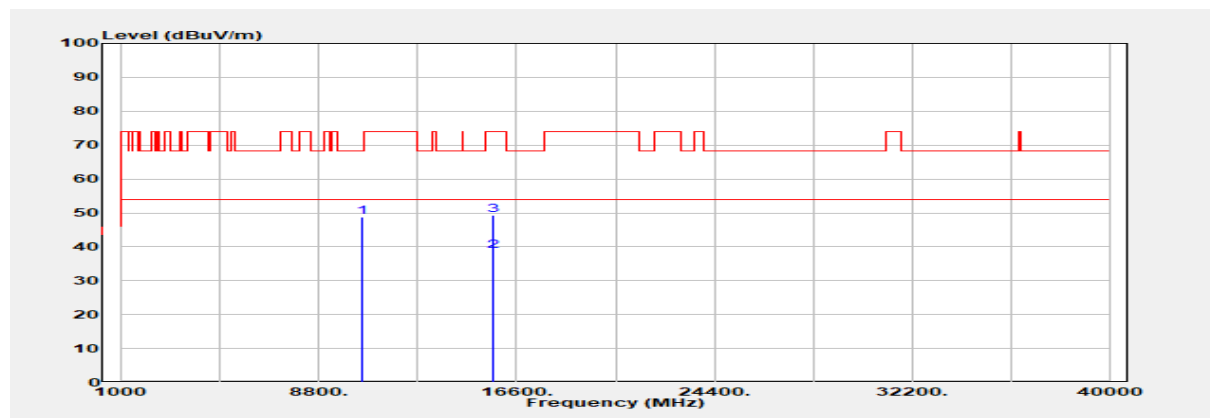
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.000	Peak	36.10	13.05	49.15	68.20	-19.05
15690.000	Average	25.95	13.42	39.37	54.00	-14.63
15690.000	Peak	36.62	13.42	50.04	74.00	-23.96

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Report Number :TERF2402000378E2
Operation Mode :802.11n40
Test Frequency :5230 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Horizontal
Engineer :Sam Huang



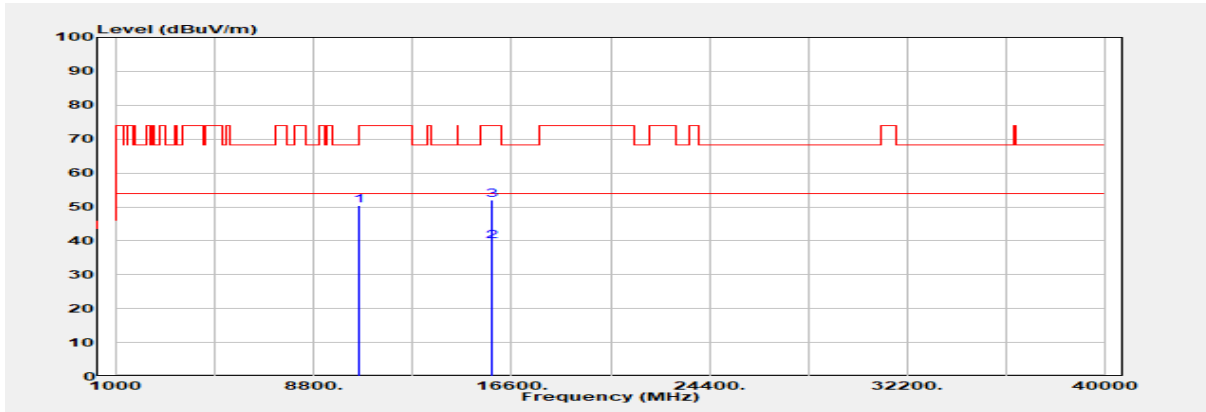
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.000	Peak	35.75	13.05	48.80	68.20	-19.40
15690.000	Average	25.25	13.42	38.67	54.00	-15.33
15690.000	Peak	35.89	13.42	49.31	74.00	-24.69

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Report Number :TERF2402000378E2
Operation Mode :802.11n40
Test Frequency :5270 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Vertical
Engineer :Sam Huang



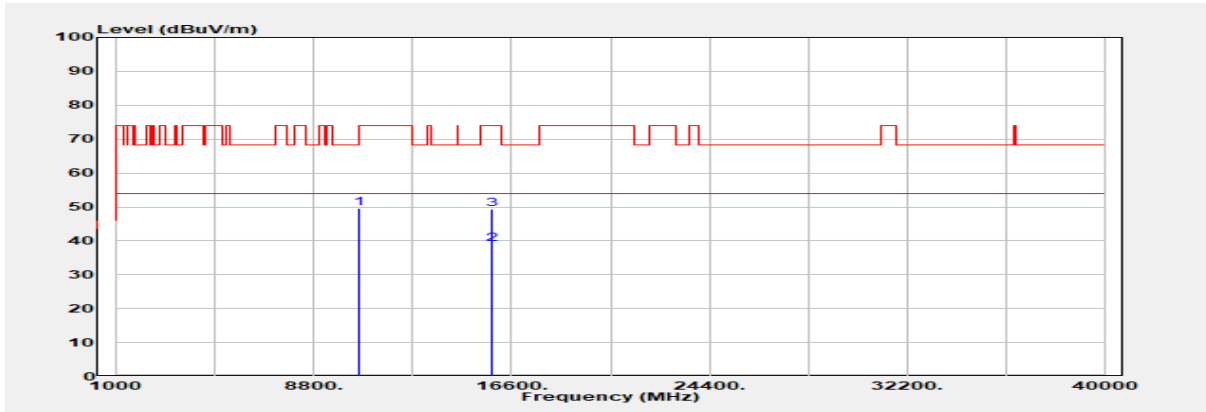
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.000	Peak	37.14	13.32	50.46	68.20	-17.74
15810.000	Average	25.60	14.24	39.84	54.00	-14.16
15810.000	Peak	37.72	14.24	51.96	74.00	-22.04

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Report Number :TERF2402000378E2
Operation Mode :802.11n40
Test Frequency :5270 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Horizontal
Engineer :Sam 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	36.29	13.32	49.61	68.20	-18.59
15810.000	Average	24.67	14.24	38.90	54.00	-15.10
15810.000	Peak	35.11	14.24	49.34	74.00	-24.66

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-27

Test Frequency :5550 MHz

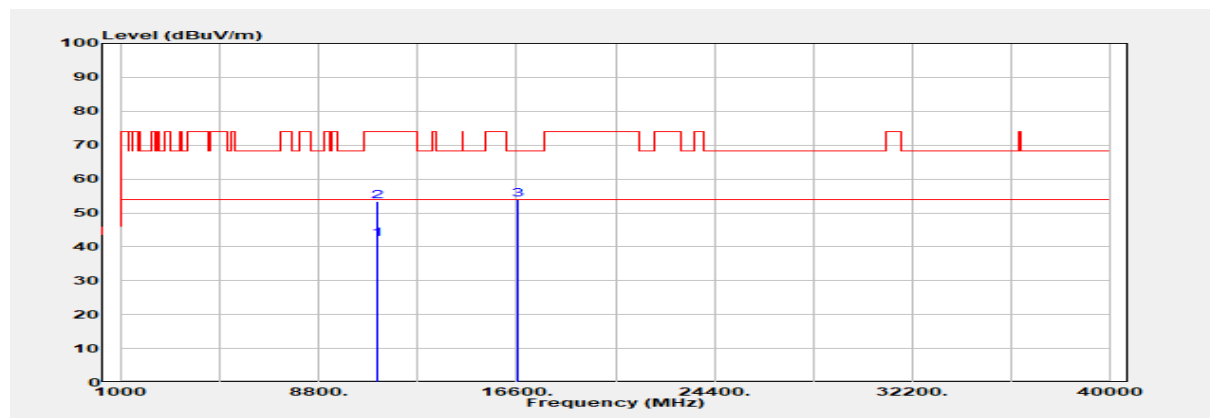
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam 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	27.43	14.85	42.28	54.00	-11.72
11100.000	Peak	38.63	14.85	53.48	74.00	-20.52
16650.000	Peak	36.87	16.96	53.83	68.20	-14.37

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-27

Test Frequency :5550 MHz

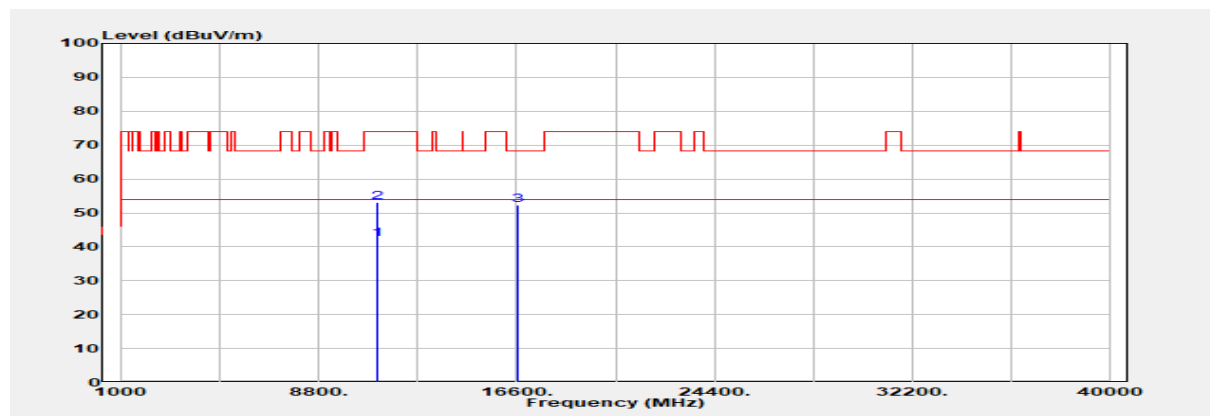
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam 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	27.36	14.85	42.21	54.00	-11.79
11100.000	Peak	38.36	14.85	53.21	74.00	-20.79
16650.000	Peak	35.40	16.96	52.36	68.20	-15.84

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-27

Test Frequency :5795 MHz

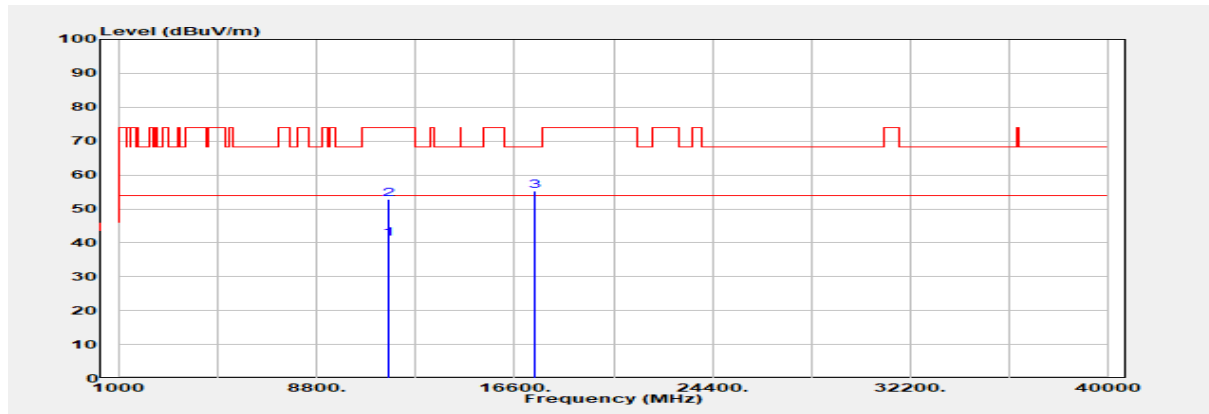
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.000	Average	26.67	14.62	41.30	54.00	-12.70
11590.000	Peak	38.33	14.62	52.95	74.00	-21.05
17385.000	Peak	36.27	19.02	55.29	68.20	-12.91

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-27

Test Frequency :5795 MHz

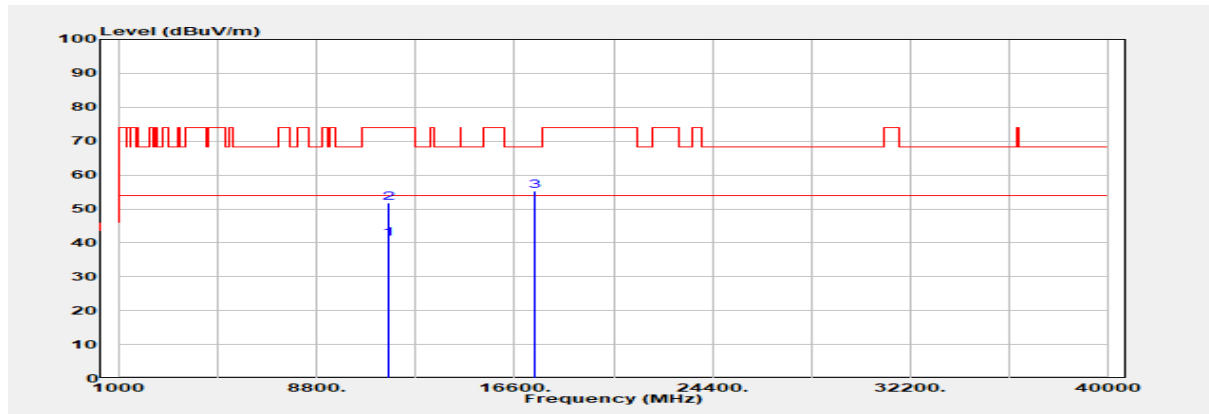
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.000	Average	26.69	14.62	41.31	54.00	-12.69
11590.000	Peak	37.20	14.62	51.83	74.00	-22.17
17385.000	Peak	36.17	19.02	55.19	68.20	-13.01

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11ac80

Test Date :2024-02-27

Test Frequency :5210 MHz

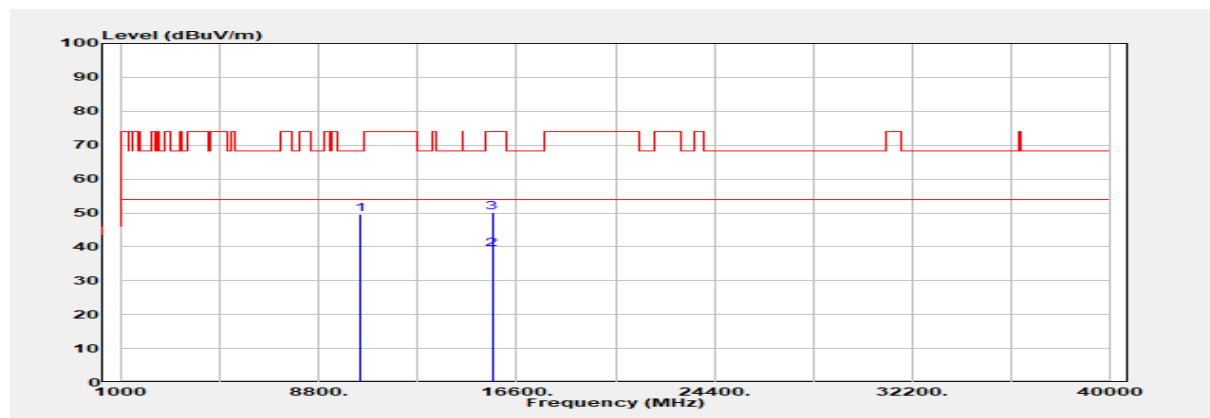
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.000	Peak	36.88	12.82	49.71	68.20	-18.49
15630.000	Average	25.58	13.67	39.24	54.00	-14.76
15630.000	Peak	36.36	13.67	50.03	74.00	-23.97

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11ac80

Test Date :2024-02-27

Test Frequency :5210 MHz

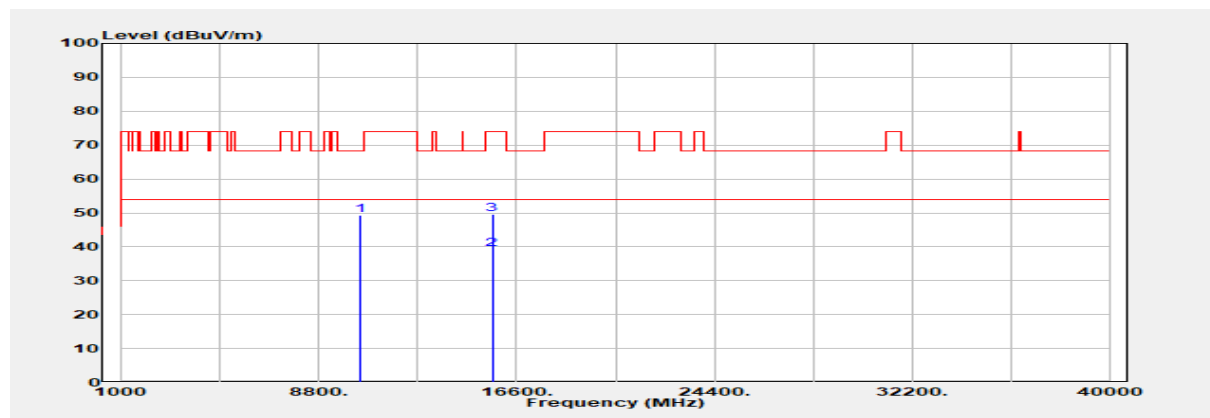
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.000	Peak	36.43	12.82	49.26	68.20	-18.94
15630.000	Average	25.72	13.67	39.39	54.00	-14.61
15630.000	Peak	35.89	13.67	49.56	74.00	-24.44

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SGS Taiwan Ltd.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

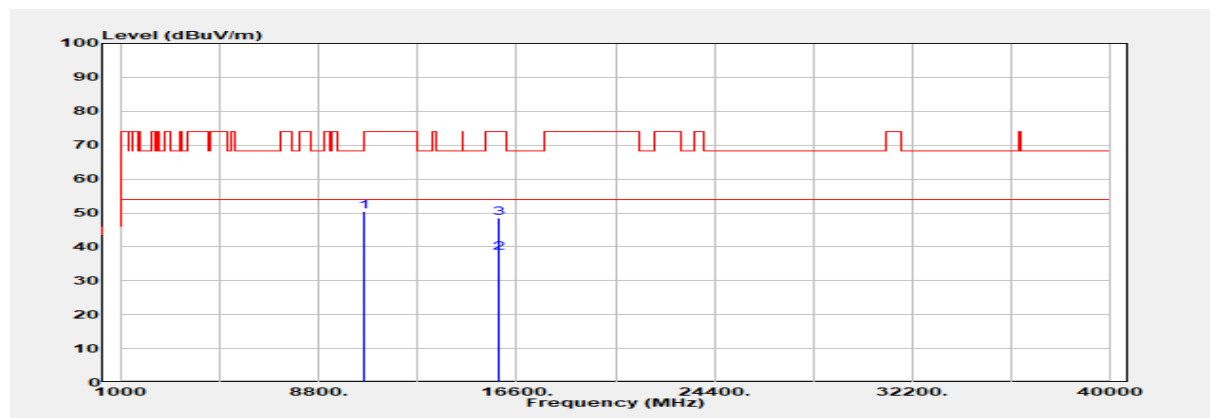
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2402000378E2
Operation Mode :802.11ac80
Test Frequency :5290 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Vertical
Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.000	Peak	36.78	13.51	50.30	68.20	-17.90
15870.000	Average	24.77	13.37	38.14	54.00	-15.86
15870.000	Peak	35.22	13.37	48.60	74.00	-25.40

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11ac80

Test Date :2024-02-27

Test Frequency :5290 MHz

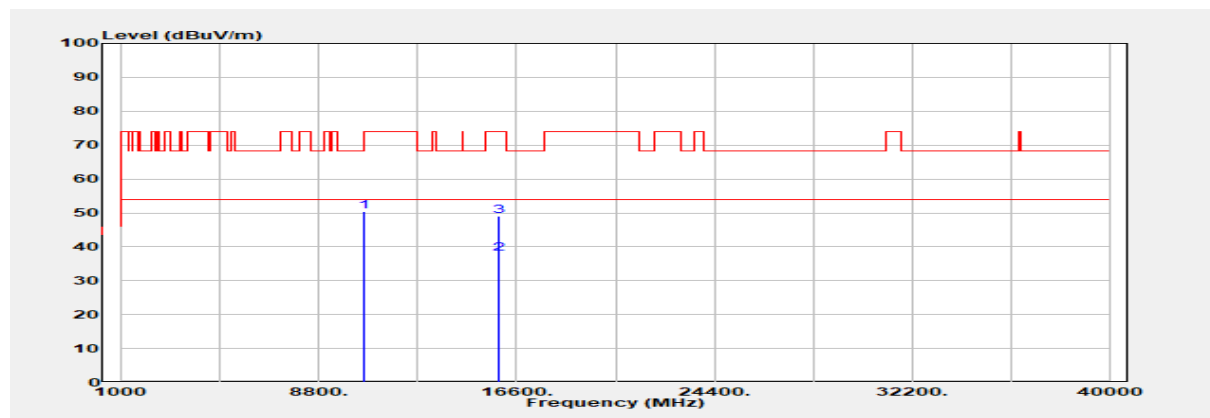
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam 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
10580.000	Peak	36.83	13.51	50.34	68.20	-17.86
15870.000	Average	24.61	13.37	37.99	54.00	-16.01
15870.000	Peak	35.69	13.37	49.06	74.00	-24.94

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11ac80

Test Date :2024-02-27

Test Frequency :5610 MHz

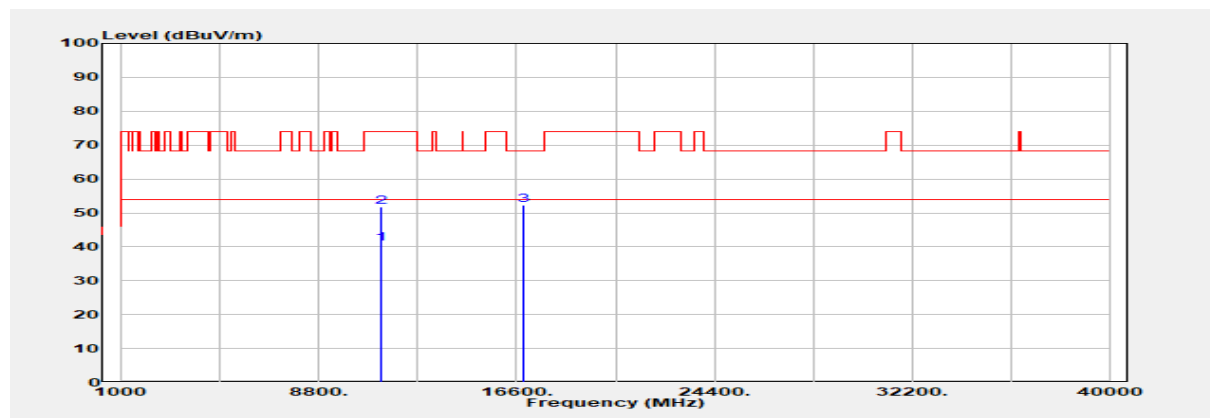
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



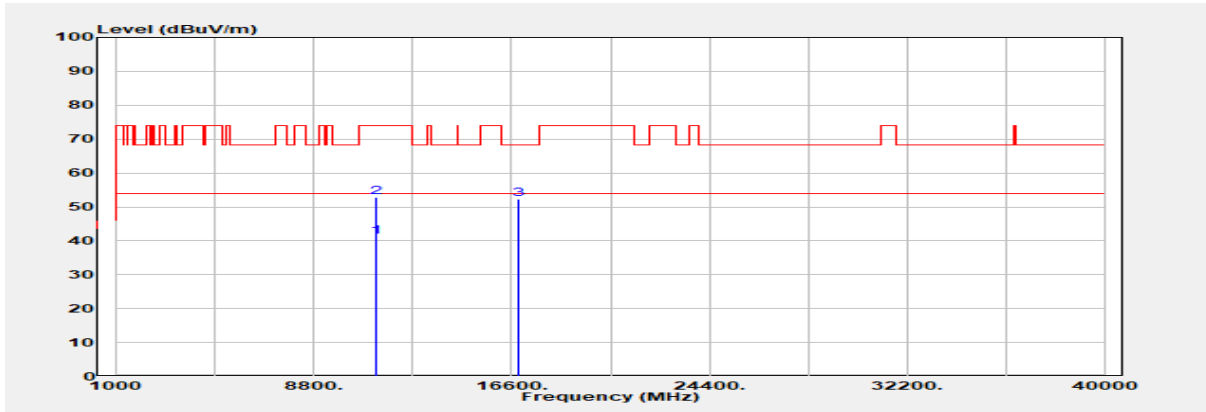
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11220.000	Average	26.82	14.13	40.95	54.00	-13.05
11220.000	Peak	37.63	14.13	51.76	74.00	-22.24
16830.000	Peak	35.12	17.10	52.22	68.20	-15.98

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Report Number :TERF2402000378E2
Operation Mode :802.11ac80
Test Frequency :5610 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-27
Temp./Humi. :20.1°C/51%
Antenna Pol. :Horizontal
Engineer :Sam 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
11220.000	Average	27.02	14.13	41.15	54.00	-12.85
11220.000	Peak	38.76	14.13	52.88	74.00	-21.12
16830.000	Peak	35.19	17.10	52.28	68.20	-15.92

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11ac80

Test Date :2024-02-27

Test Frequency :5775 MHz

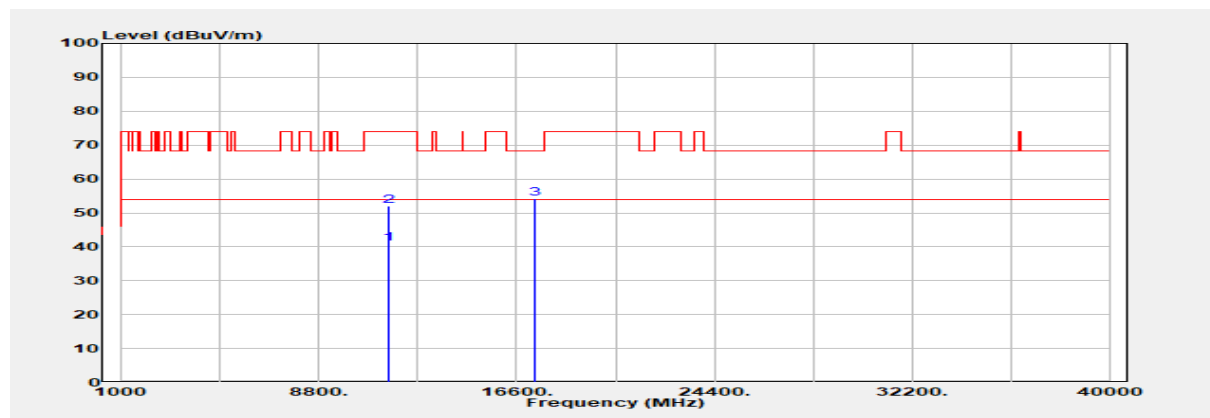
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.000	Average	26.79	14.24	41.03	54.00	-12.97
11550.000	Peak	37.66	14.24	51.90	74.00	-22.10
17325.000	Peak	36.02	18.16	54.18	68.20	-14.02

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11ac80

Test Date :2024-02-27

Test Frequency :5775 MHz

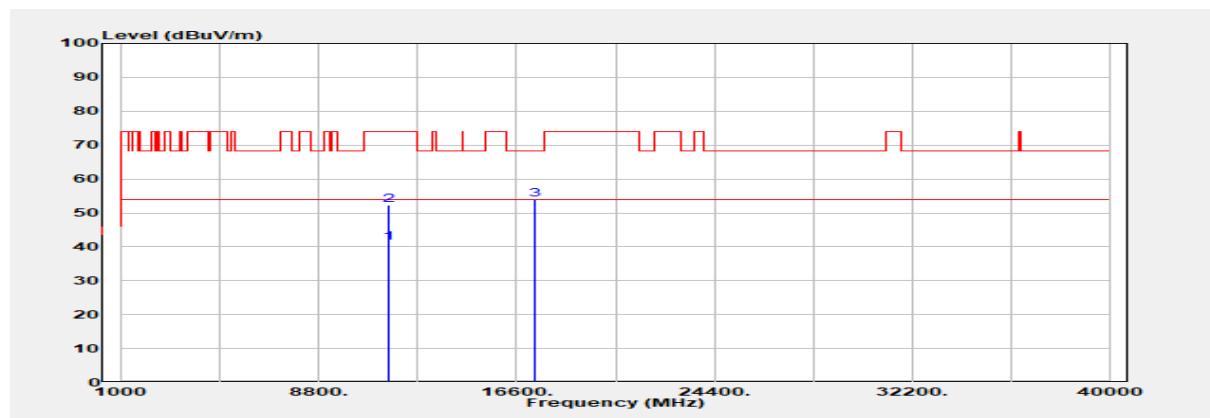
Temp./Humi. :20.1°C/51%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.000	Average	26.96	14.24	41.20	54.00	-12.80
11550.000	Peak	37.97	14.24	52.21	74.00	-21.79
17325.000	Peak	35.71	18.16	53.87	68.20	-14.33

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8.6.2 Band edge falling to restricted band

Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11a

Test Date :2024-02-26

Test Frequency :5180 MHz

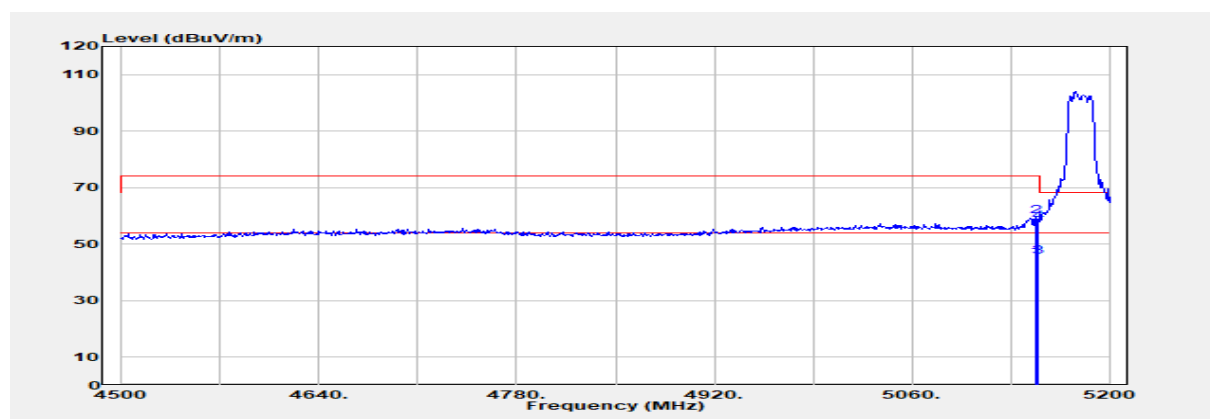
Temp./Humi. :20.9°C/56%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



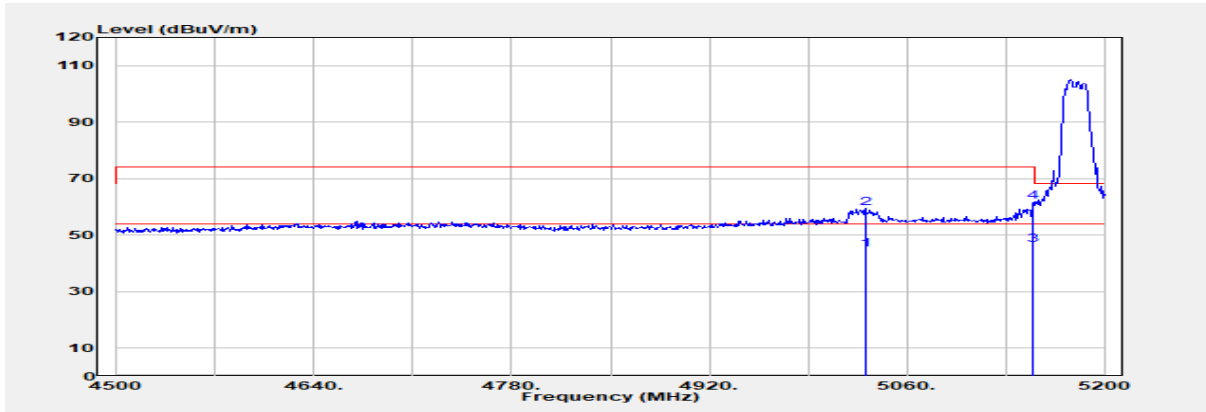
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5147.500	Average	43.31	1.88	45.19	54.00	-8.81
5147.500	Peak	57.84	1.88	59.71	74.00	-14.29
5150.000	Average	43.51	1.86	45.38	54.00	-8.62
5150.000	Peak	55.91	1.86	57.78	74.00	-16.22

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Report Number :TERF2402000378E2
Operation Mode :802.11a
Test Frequency :5180 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Horizontal
Engineer :Sam Huang



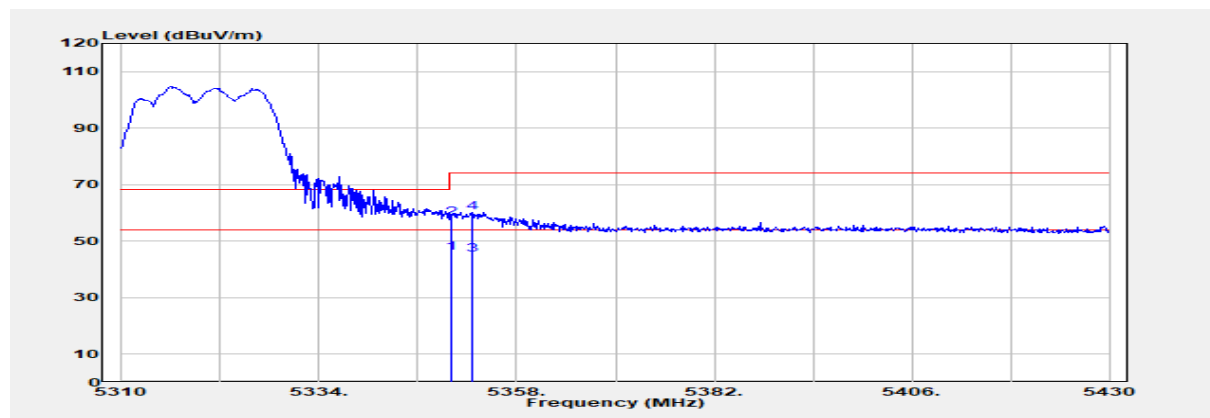
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5030.600	Average	42.41	2.40	44.81	54.00	-9.19
5030.600	Peak	57.10	2.40	59.50	74.00	-14.50
5150.000	Average	44.54	1.86	46.40	54.00	-7.60
5150.000	Peak	59.82	1.86	61.69	74.00	-12.31

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Report Number :TERF2402000378E2
 Operation Mode :802.11a
 Test Frequency :5320 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



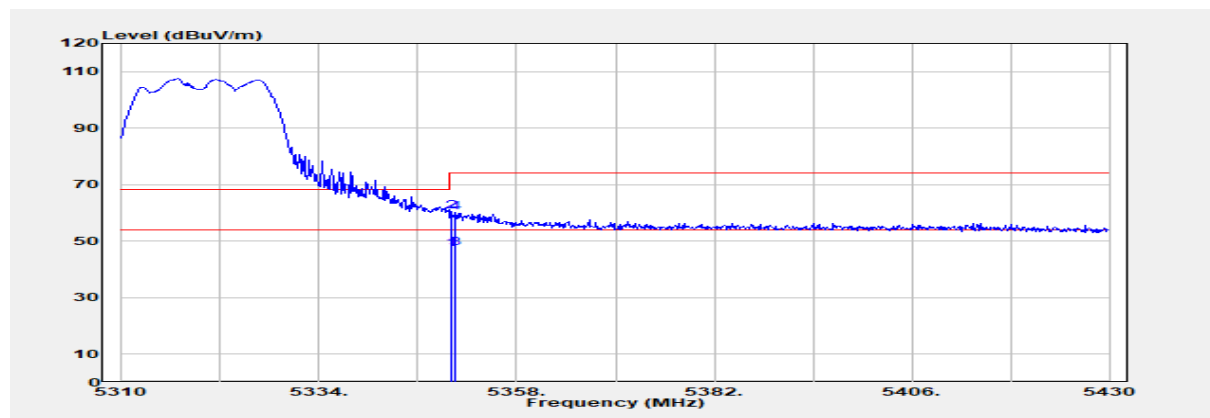
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	43.38	2.57	45.95	54.00	-8.05
5350.000	Peak	55.50	2.57	58.07	74.00	-15.93
5352.480	Average	42.51	2.60	45.11	54.00	-8.89
5352.480	Peak	57.55	2.60	60.14	74.00	-13.86

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Report Number :TERF2402000378E2
Operation Mode :802.11a
Test Frequency :5320 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Horizontal
Engineer :Sam Huang



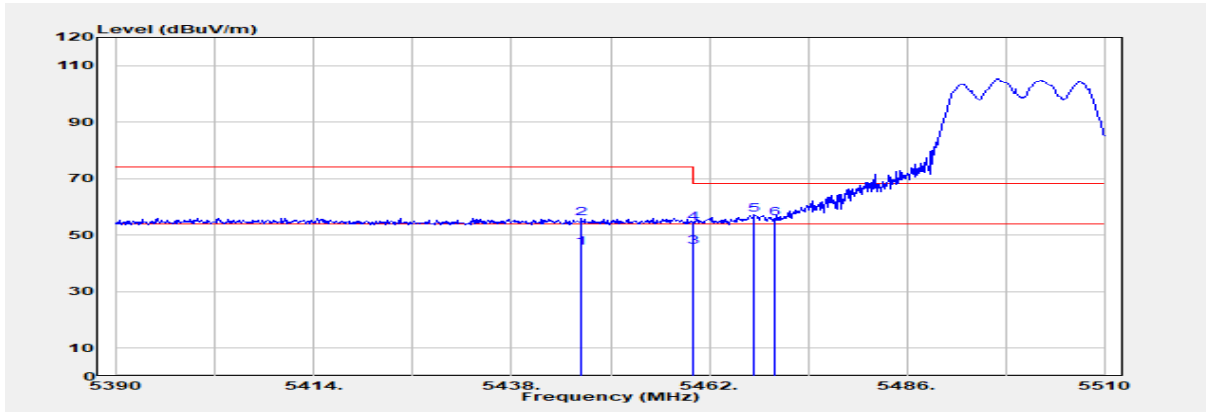
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	44.67	2.57	47.25	54.00	-6.75
5350.000	Peak	57.82	2.57	60.39	74.00	-13.61
5350.440	Average	44.91	2.58	47.49	54.00	-6.51
5350.440	Peak	57.70	2.58	60.28	74.00	-13.72

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Report Number :TERF2402000378E2
Operation Mode :802.11a
Test Frequency :5500 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Vertical
Engineer :Sam Huang



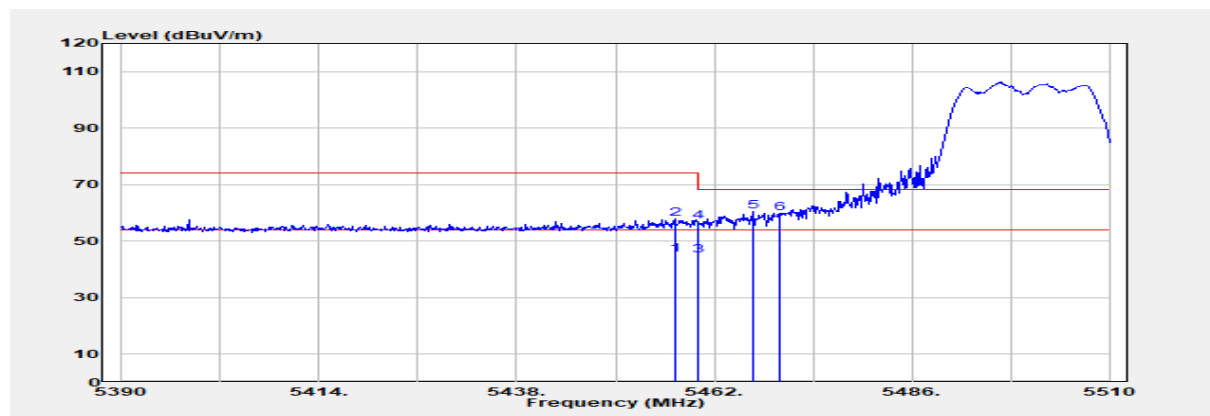
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5446.520	Average	43.26	2.39	45.65	54.00	-8.35
5446.520	Peak	53.70	2.39	56.09	74.00	-17.91
5460.000	Average	43.55	2.28	45.83	54.00	-8.17
5460.000	Peak	52.03	2.28	54.32	74.00	-19.68
5467.520	Peak	55.06	2.23	57.29	68.20	-10.91
5470.000	Peak	53.64	2.21	55.85	68.20	-12.35

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Report Number :TERF2402000378E2
 Operation Mode :802.11a
 Test Frequency :5500 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



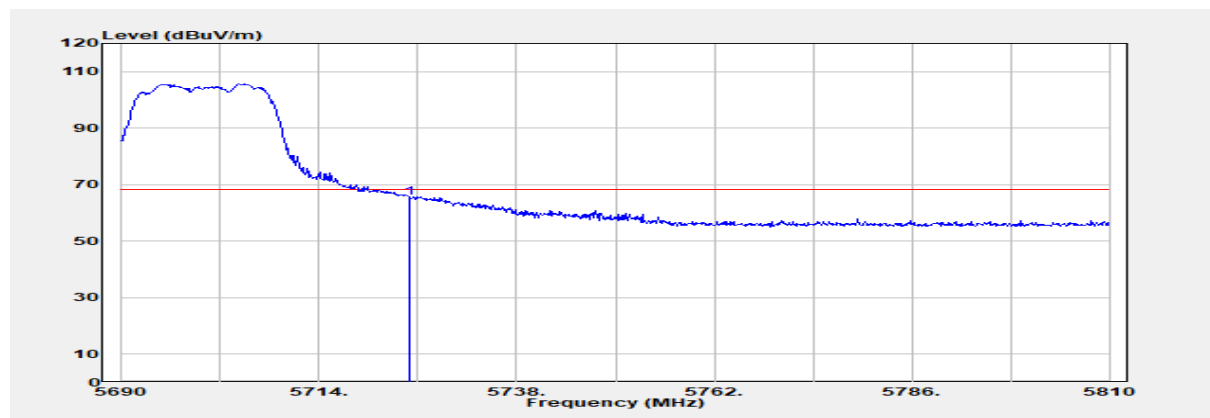
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.200	Average	42.76	2.30	45.06	54.00	-8.94
5457.200	Peak	55.47	2.30	57.77	74.00	-16.23
5460.000	Average	42.73	2.28	45.01	54.00	-8.99
5460.000	Peak	54.63	2.28	56.91	74.00	-17.09
5466.680	Peak	58.18	2.24	60.42	68.20	-7.78
5470.000	Peak	57.63	2.21	59.85	68.20	-8.35

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Report Number :TERF2402000378E2
Operation Mode :802.11a
Test Frequency :5700 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Vertical
Engineer :Sam Huang



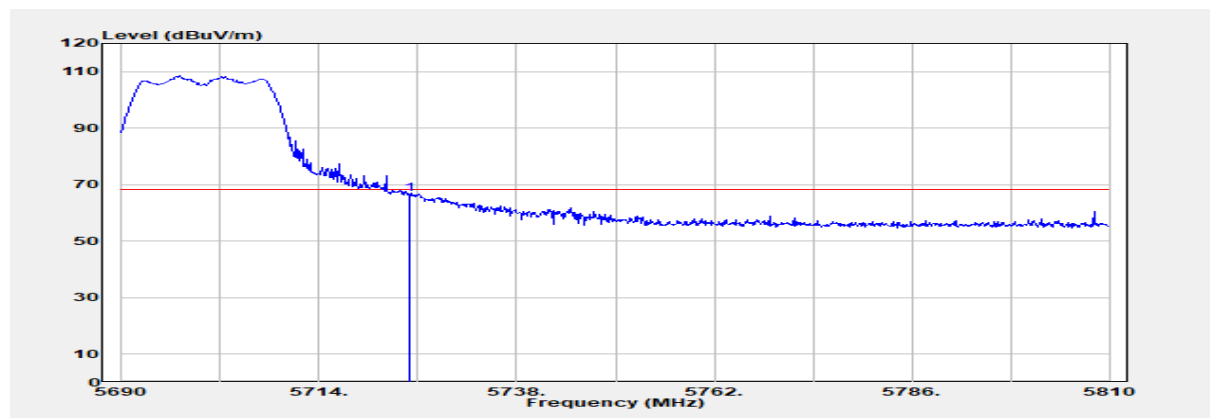
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	61.99	3.46	65.45	68.20	-2.75

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Report Number :TERF2402000378E2
Operation Mode :802.11a
Test Frequency :5700 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Horizontal
Engineer :Sam Huang



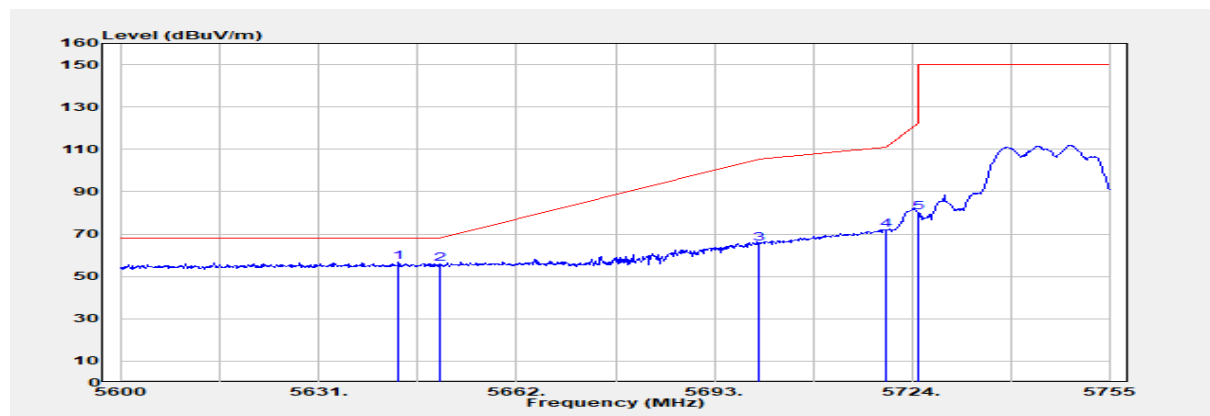
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	63.33	3.46	66.78	68.20	-1.42

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Report Number :TERF2402000378E2
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



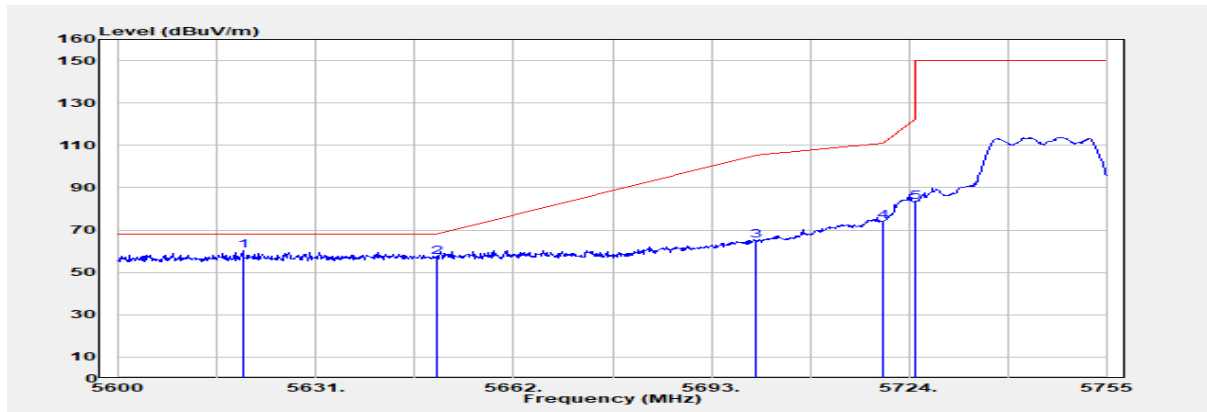
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5643.400	Peak	53.58	3.06	56.65	68.20	-11.55
5650.000	Peak	52.81	3.21	56.02	68.20	-12.18
5700.000	Peak	62.08	3.50	65.58	105.20	-39.62
5720.000	Peak	68.50	3.46	71.97	110.80	-38.83
5725.000	Peak	76.64	3.46	80.09	122.20	-42.11

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Report Number :TERF2402000378E2
 Operation Mode :802.11a
 Test Frequency :5745 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



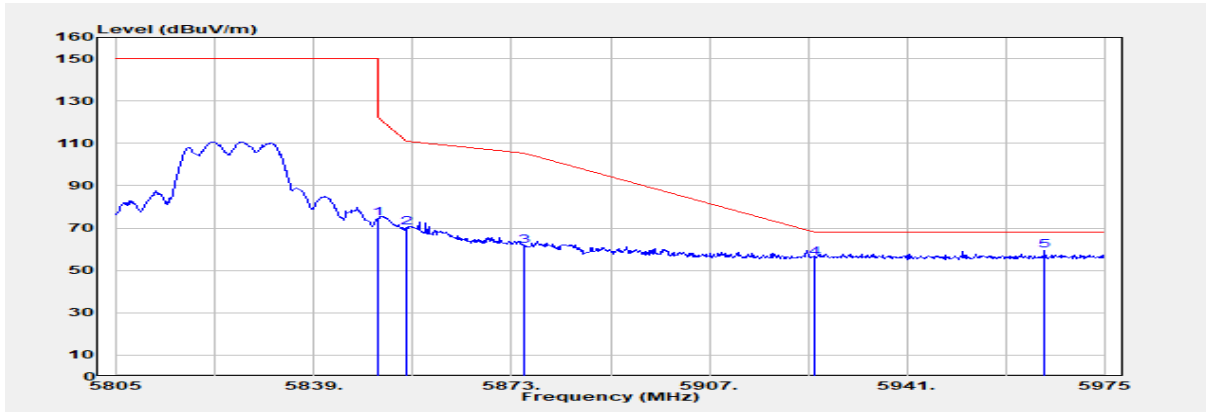
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5619.530	Peak	57.64	2.54	60.18	68.20	-8.02
5650.000	Peak	54.22	3.21	57.43	68.20	-10.77
5700.000	Peak	61.45	3.50	64.95	105.20	-40.25
5720.000	Peak	70.86	3.46	74.32	110.80	-36.48
5725.000	Peak	79.90	3.46	83.36	122.20	-38.84

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Report Number :TERF2402000378E2
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Vertical
 Engineer :Sam 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	71.18	3.42	74.59	122.20	-47.61
5855.000	Peak	66.87	3.39	70.26	110.80	-40.54
5875.000	Peak	58.39	3.29	61.68	105.20	-43.52
5925.000	Peak	52.36	3.52	55.88	68.20	-12.32
5964.800	Peak	55.32	3.98	59.30	68.20	-8.90

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

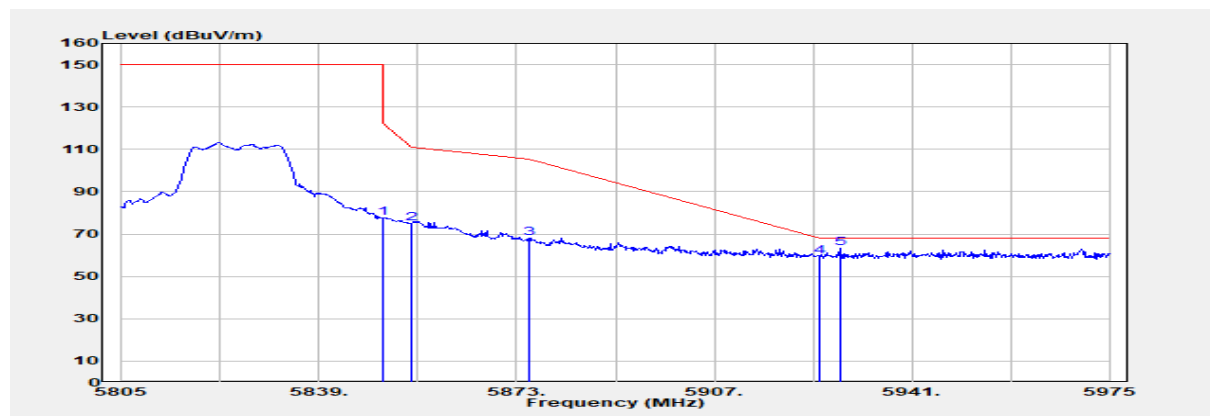
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2402000378E2
 Operation Mode :802.11a
 Test Frequency :5825 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



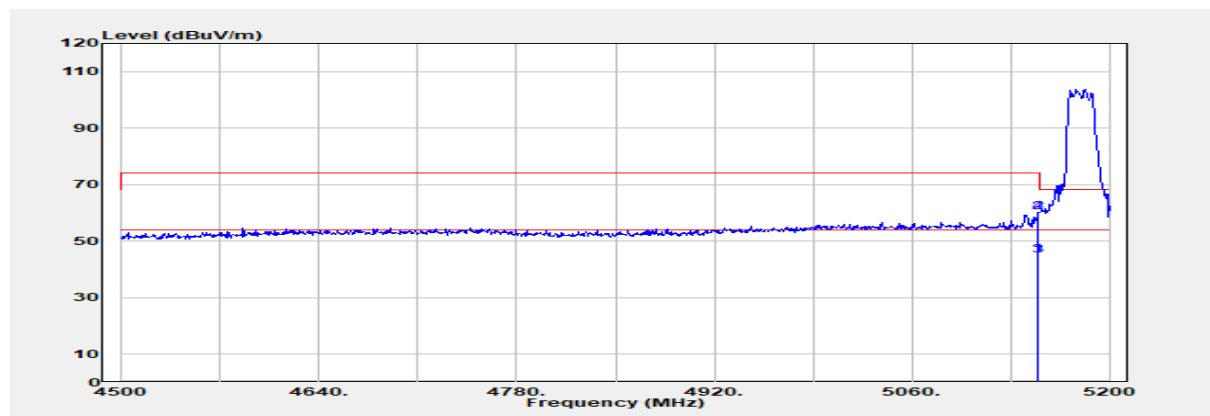
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	74.14	3.42	77.56	122.20	-44.64
5855.000	Peak	71.75	3.39	75.14	110.80	-35.66
5875.000	Peak	64.83	3.29	68.12	105.20	-37.08
5925.000	Peak	55.82	3.52	59.33	68.20	-8.87
5928.590	Peak	59.86	3.56	63.43	68.20	-4.77

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Report Number :TERF2402000378E2
Operation Mode :802.11n20
Test Frequency :5180 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Vertical
Engineer :Sam Huang



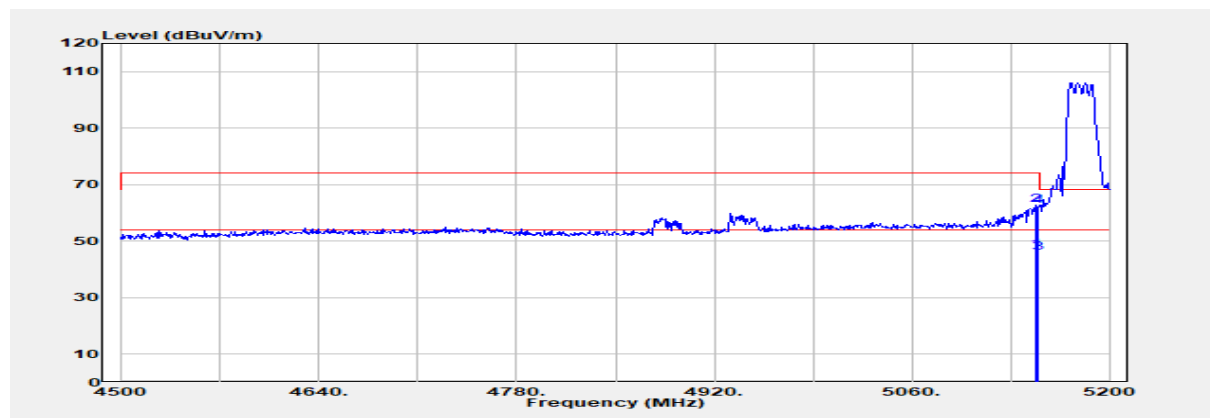
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.600	Average	43.11	1.87	44.98	54.00	-9.02
5149.600	Peak	58.31	1.87	60.18	74.00	-13.82
5150.000	Average	43.02	1.86	44.88	54.00	-9.12
5150.000	Peak	58.28	1.86	60.15	74.00	-13.85

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Report Number :TERF2402000378E2
Operation Mode :802.11n20
Test Frequency :5180 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Horizontal
Engineer :Sam Huang



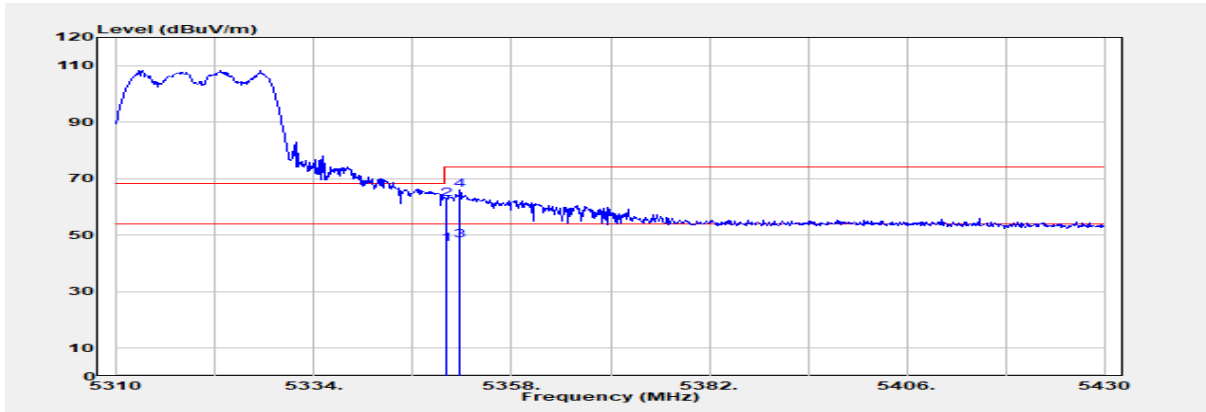
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.500	Average	44.87	1.88	46.75	54.00	-7.25
5147.500	Peak	60.84	1.88	62.72	74.00	-11.28
5150.000	Average	44.03	1.86	45.89	54.00	-8.11
5150.000	Peak	60.69	1.86	62.56	74.00	-11.44

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Report Number :TERF2402000378E2
 Operation Mode :802.11n20
 Test Frequency :5320 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-04
 Temp./Humi. :19.5°C/62%
 Antenna Pol. :Vertical
 Engineer :Sam 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	44.25	2.57	46.82	54.00	-7.18
5350.000	Peak	60.15	2.57	62.72	74.00	-11.28
5351.760	Average	45.41	2.59	48.00	54.00	-6.00
5351.760	Peak	63.45	2.59	66.04	74.00	-7.96

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-03-04

Test Frequency :5320 MHz

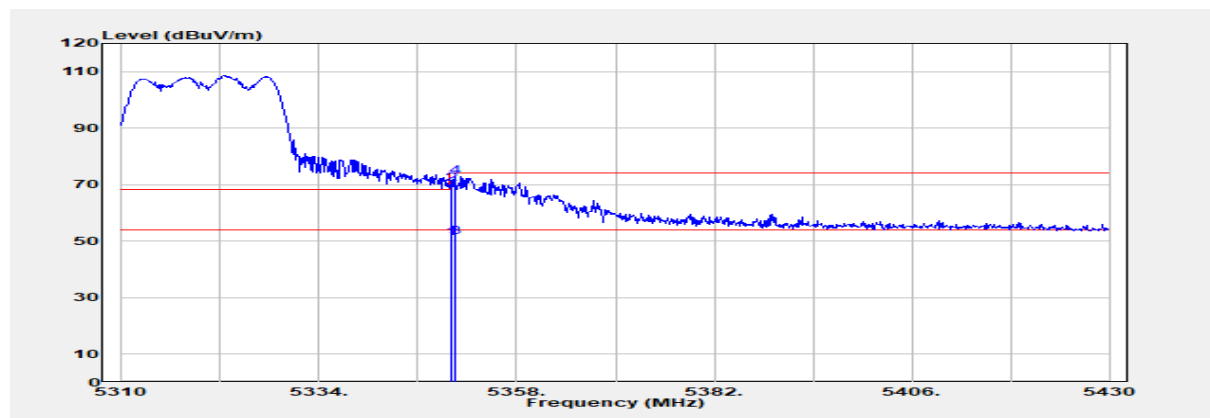
Temp./Humi. :19.5°C/62%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



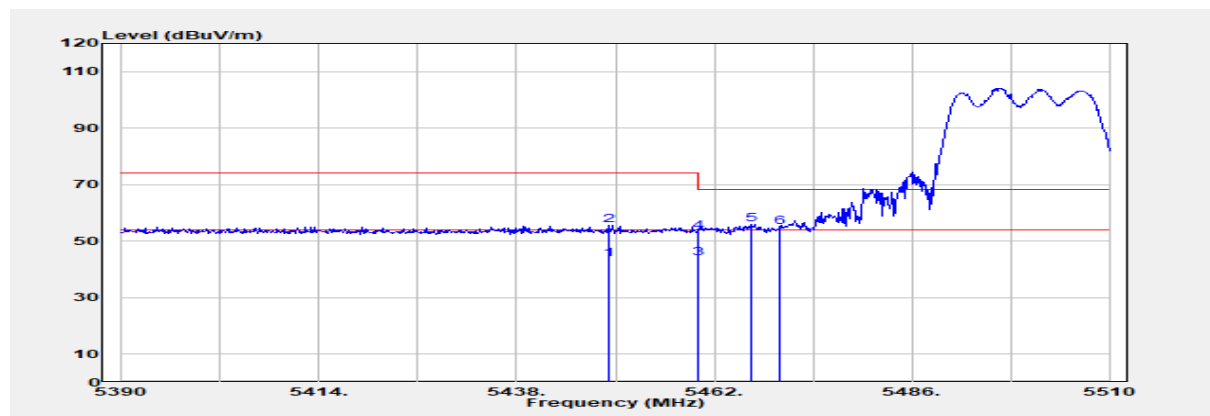
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	48.60	2.57	51.18	54.00	-2.82
5350.000	Peak	67.83	2.57	70.40	74.00	-3.60
5350.440	Average	48.76	2.58	51.34	54.00	-2.66
5350.440	Peak	70.11	2.58	72.68	74.00	-1.32

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Report Number :TERF2402000378E2
 Operation Mode :802.11n20
 Test Frequency :5500 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



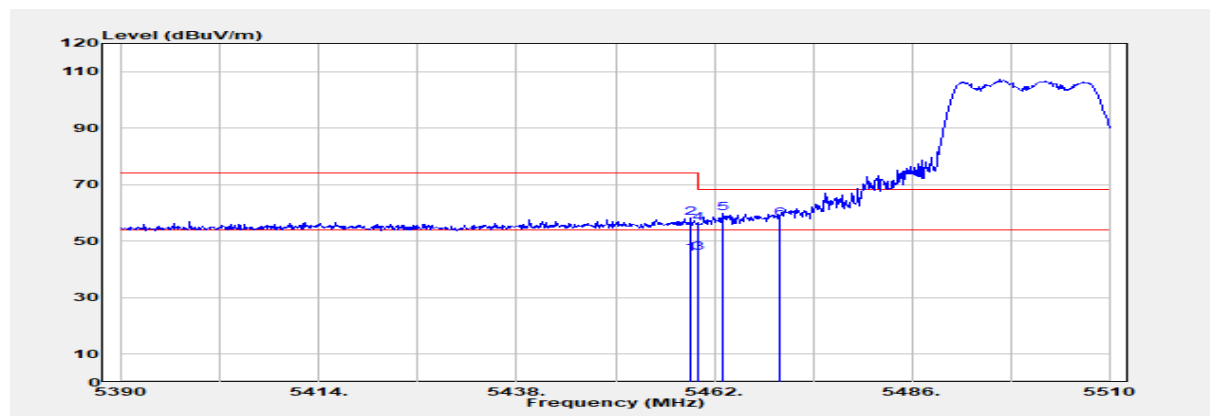
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5449.160	Average	41.16	2.36	43.52	54.00	-10.48
5449.160	Peak	53.35	2.36	55.71	74.00	-18.29
5460.000	Average	41.57	2.28	43.85	54.00	-10.15
5460.000	Peak	51.13	2.28	53.41	74.00	-20.59
5466.440	Peak	53.61	2.24	55.85	68.20	-12.35
5470.000	Peak	52.59	2.21	54.80	68.20	-13.40

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Report Number :TERF2402000378E2
Operation Mode :802.11n20
Test Frequency :5500 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Horizontal
Engineer :Sam Huang



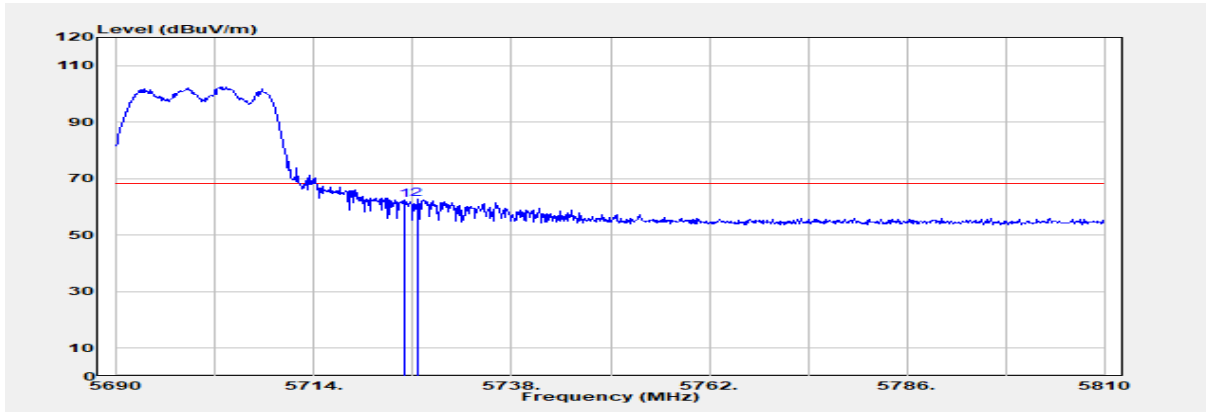
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.120	Average	43.37	2.29	45.65	54.00	-8.35
5459.120	Peak	55.78	2.29	58.07	74.00	-15.93
5460.000	Average	43.59	2.28	45.87	54.00	-8.13
5460.000	Peak	54.00	2.28	56.28	74.00	-17.72
5462.960	Peak	57.66	2.26	59.92	68.20	-8.28
5470.000	Peak	55.71	2.21	57.92	68.20	-10.28

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Report Number :TERF2402000378E2
Operation Mode :802.11n20
Test Frequency :5700 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Vertical
Engineer :Sam Huang



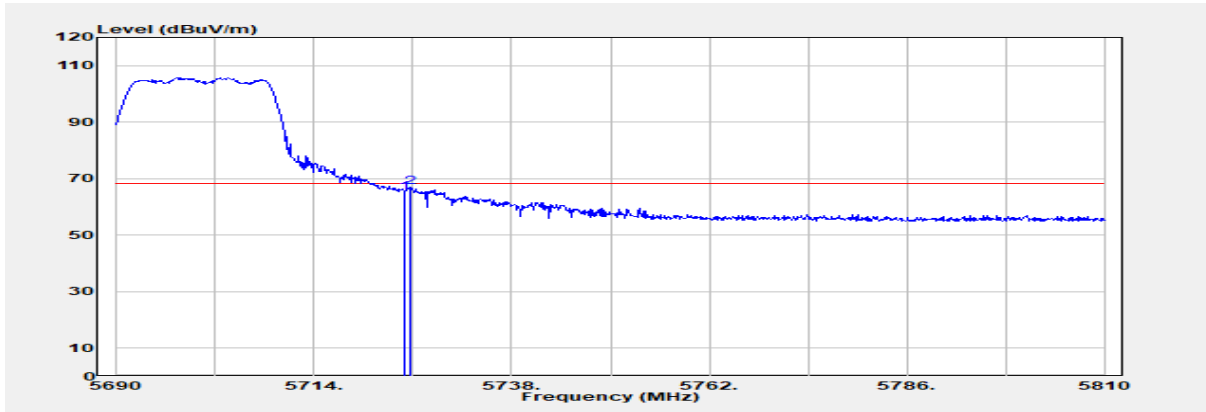
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	59.08	3.46	62.54	68.20	-5.66
5726.480	Peak	59.32	3.45	62.78	68.20	-5.42

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Report Number :TERF2402000378E2
Operation Mode :802.11n20
Test Frequency :5700 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Horizontal
Engineer :Sam Huang



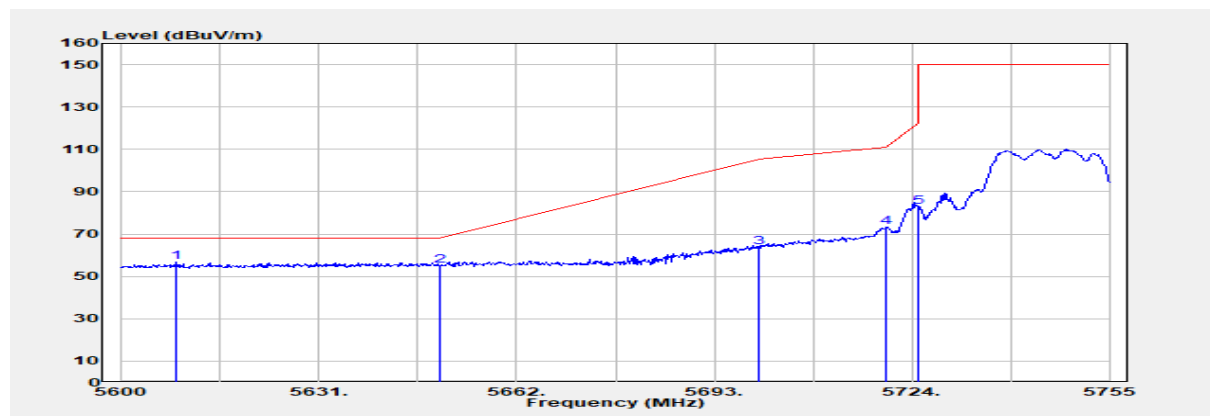
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	61.43	3.46	64.89	68.20	-3.31
5725.760	Peak	63.38	3.45	66.83	68.20	-1.37

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Report Number :TERF2402000378E2
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



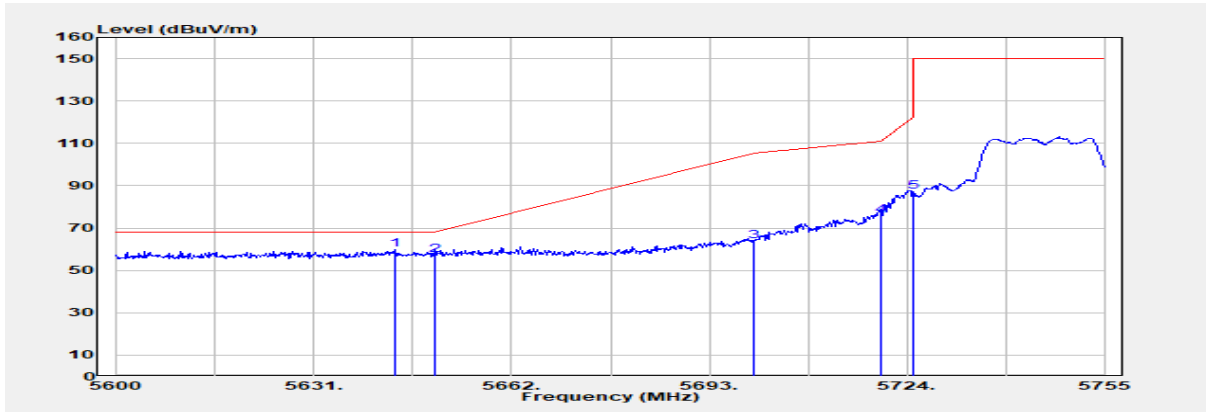
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5608.525	Peak	54.31	2.30	56.61	68.20	-11.59
5650.000	Peak	51.81	3.21	55.02	68.20	-13.18
5700.000	Peak	60.40	3.50	63.90	105.20	-41.30
5720.000	Peak	69.75	3.46	73.21	110.80	-37.59
5725.000	Peak	79.29	3.46	82.75	122.20	-39.45

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Report Number :TERF2402000378E2
 Operation Mode :802.11n20
 Test Frequency :5745 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5643.710	Peak	56.94	3.07	60.01	68.20	-8.19
5650.000	Peak	54.22	3.21	57.43	68.20	-10.77
5700.000	Peak	60.19	3.50	63.69	105.20	-41.51
5720.000	Peak	72.34	3.46	75.81	110.80	-34.99
5725.000	Peak	83.66	3.46	87.12	122.20	-35.08

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11n20

Test Date :2024-02-26

Test Frequency :5825 MHz

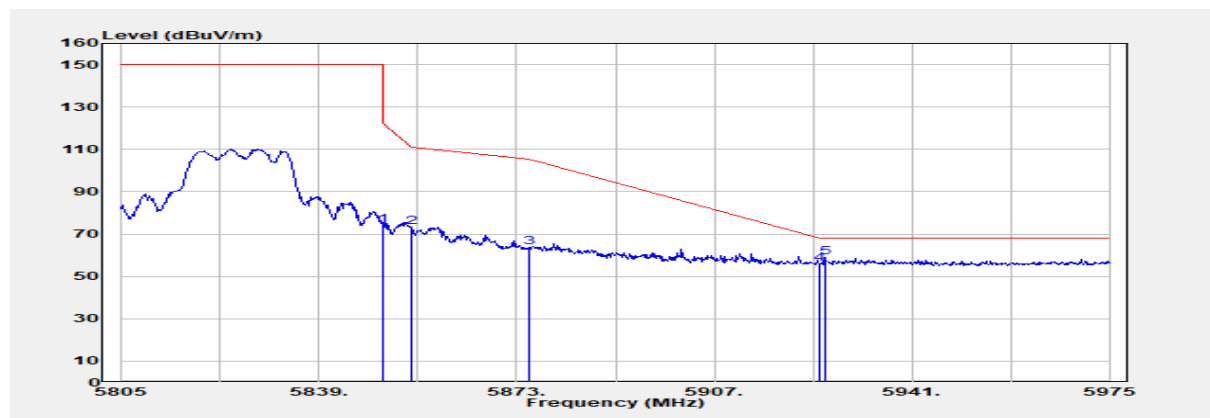
Temp./Humi. :20.9°C/56%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



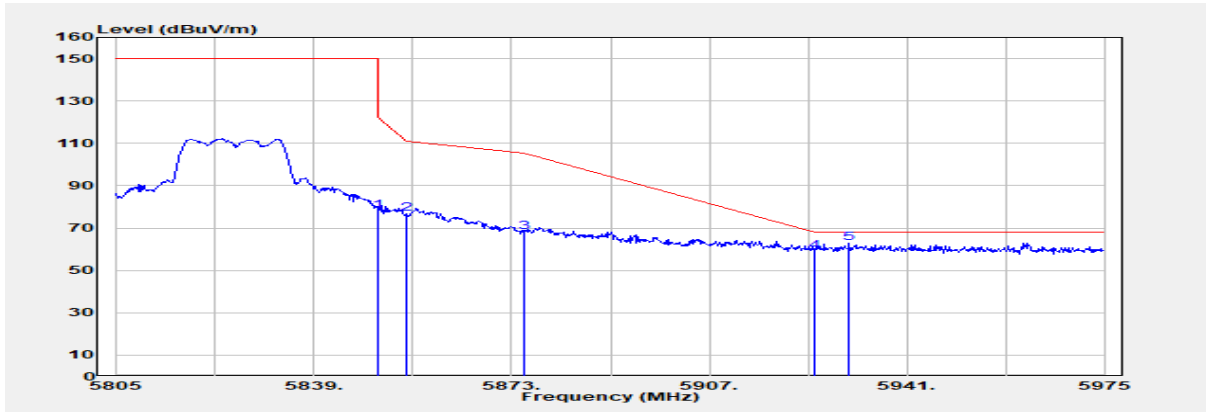
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	70.81	3.42	74.22	122.20	-47.98
5855.000	Peak	69.84	3.39	73.23	110.80	-37.57
5875.000	Peak	60.42	3.29	63.71	105.20	-41.49
5925.000	Peak	52.44	3.52	55.95	68.20	-12.25
5926.040	Peak	55.32	3.53	58.85	68.20	-9.35

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Report Number :TERF2402000378E2
 Operation Mode :802.11n20
 Test Frequency :5825 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Horizontal
 Engineer :Sam 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	74.77	3.42	78.19	122.20	-44.01
5855.000	Peak	73.20	3.39	76.59	110.80	-34.21
5875.000	Peak	64.96	3.29	68.25	105.20	-36.95
5925.000	Peak	55.57	3.52	59.08	68.20	-9.12
5931.140	Peak	59.30	3.60	62.90	68.20	-5.30

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-26

Test Frequency :5190 MHz

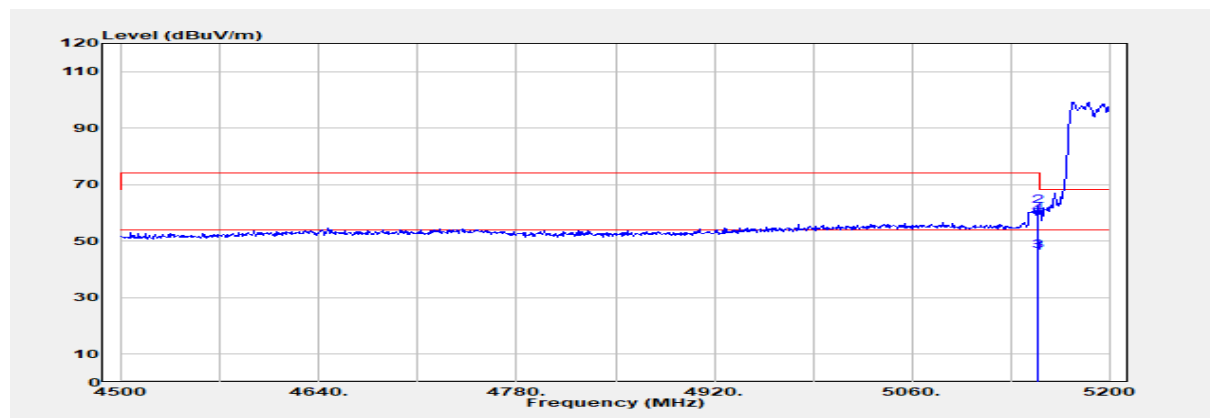
Temp./Humi. :20.9°C/56%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



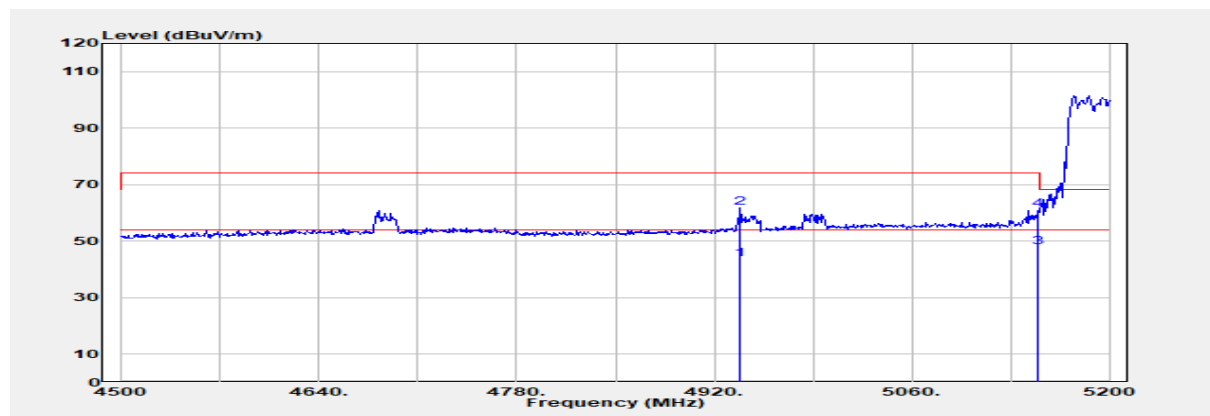
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.900	Average	44.12	1.87	45.99	54.00	-8.01
5148.900	Peak	60.60	1.87	62.48	74.00	-11.52
5150.000	Average	44.71	1.86	46.58	54.00	-7.42
5150.000	Peak	57.74	1.86	59.60	74.00	-14.40

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Report Number :TERF2402000378E2
 Operation Mode :802.11n40
 Test Frequency :5190 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4938.200	Average	41.98	1.54	43.52	54.00	-10.48
4938.200	Peak	60.17	1.54	61.71	74.00	-12.29
5150.000	Average	45.87	1.86	47.74	54.00	-6.26
5150.000	Peak	59.14	1.86	61.00	74.00	-13.00

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11n40

Test Date :2024-02-26

Test Frequency :5310 MHz

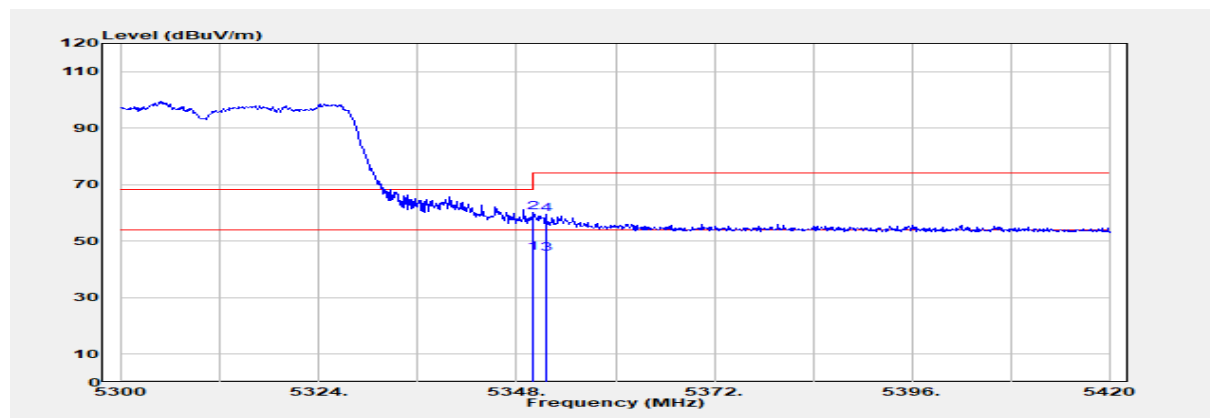
Temp./Humi. :20.9°C/56%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



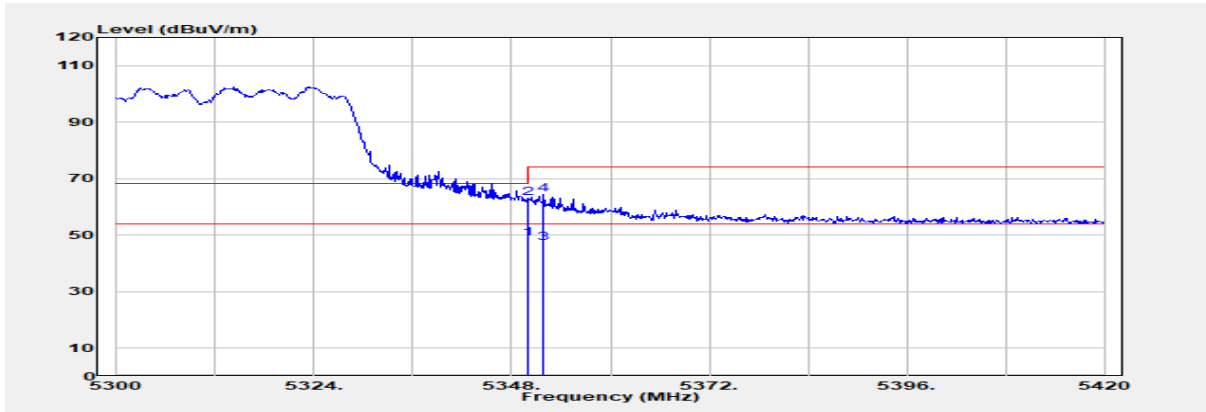
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	43.21	2.57	45.78	54.00	-8.22
5350.000	Peak	57.50	2.57	60.08	74.00	-13.92
5351.480	Average	43.08	2.59	45.66	54.00	-8.34
5351.480	Peak	56.89	2.59	59.47	74.00	-14.53

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Report Number :TERF2402000378E2
Operation Mode :802.11n40
Test Frequency :5310 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Horizontal
Engineer :Sam Huang



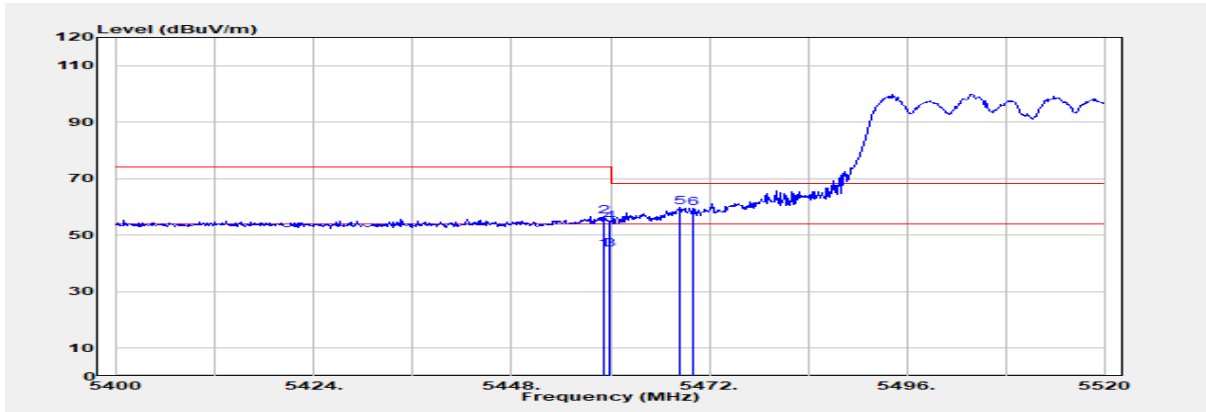
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	46.15	2.57	48.73	54.00	-5.27
5350.000	Peak	60.39	2.57	62.96	74.00	-11.04
5351.840	Average	44.53	2.59	47.12	54.00	-6.88
5351.840	Peak	61.79	2.59	64.38	74.00	-9.62

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Report Number :TERF2402000378E2
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



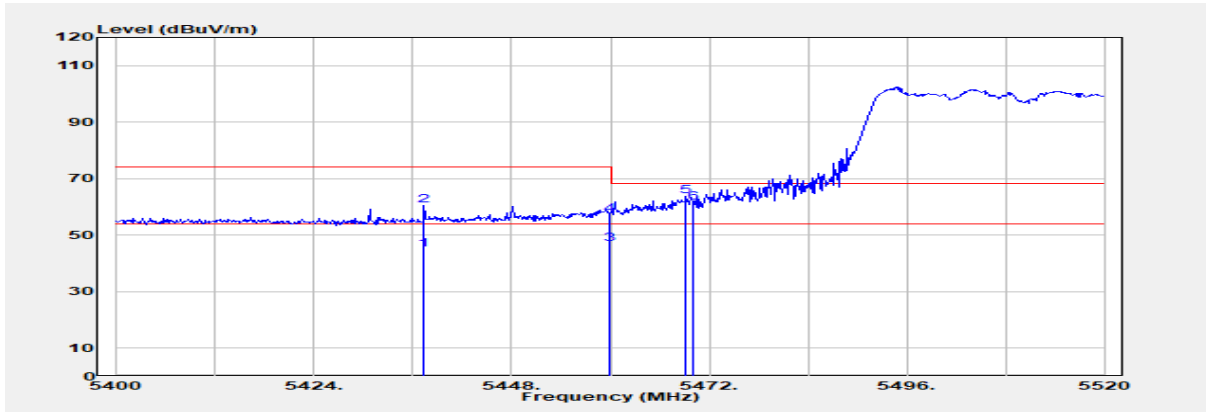
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.160	Average	42.49	2.29	44.78	54.00	-9.22
5459.160	Peak	54.27	2.29	56.56	74.00	-17.44
5460.000	Average	42.56	2.28	44.84	54.00	-9.16
5460.000	Peak	52.24	2.28	54.52	74.00	-19.48
5468.520	Peak	57.58	2.22	59.80	68.20	-8.40
5470.000	Peak	57.34	2.21	59.56	68.20	-8.64

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Report Number :TERF2402000378E2
 Operation Mode :802.11n40
 Test Frequency :5510 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



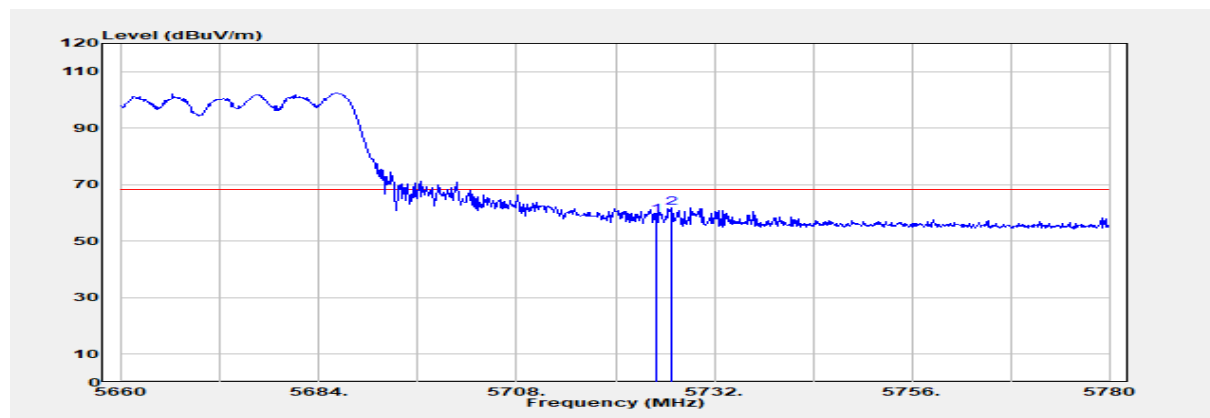
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5437.320	Average	42.47	2.51	44.98	54.00	-9.02
5437.320	Peak	57.90	2.51	60.41	74.00	-13.59
5460.000	Average	44.51	2.28	46.80	54.00	-7.20
5460.000	Peak	55.10	2.28	57.38	74.00	-16.62
5469.120	Peak	61.66	2.22	63.88	68.20	-4.32
5470.000	Peak	59.12	2.21	61.33	68.20	-6.87

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Report Number :TERF2402000378E2
Operation Mode :802.11n40
Test Frequency :5670 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Vertical
Engineer :Sam Huang



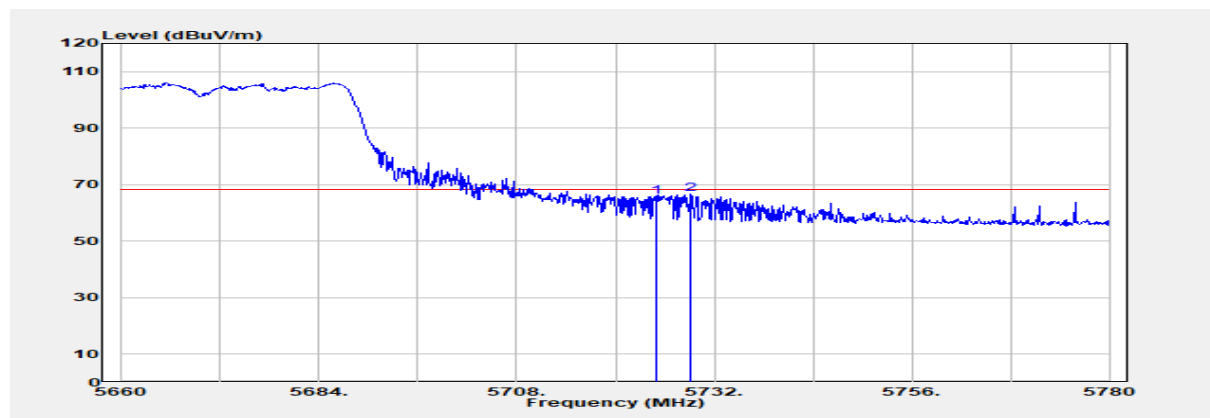
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	55.63	3.46	59.08	68.20	-9.12
5726.840	Peak	58.34	3.45	61.80	68.20	-6.40

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Report Number :TERF2402000378E2
Operation Mode :802.11n40
Test Frequency :5670 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Horizontal
Engineer :Sam Huang



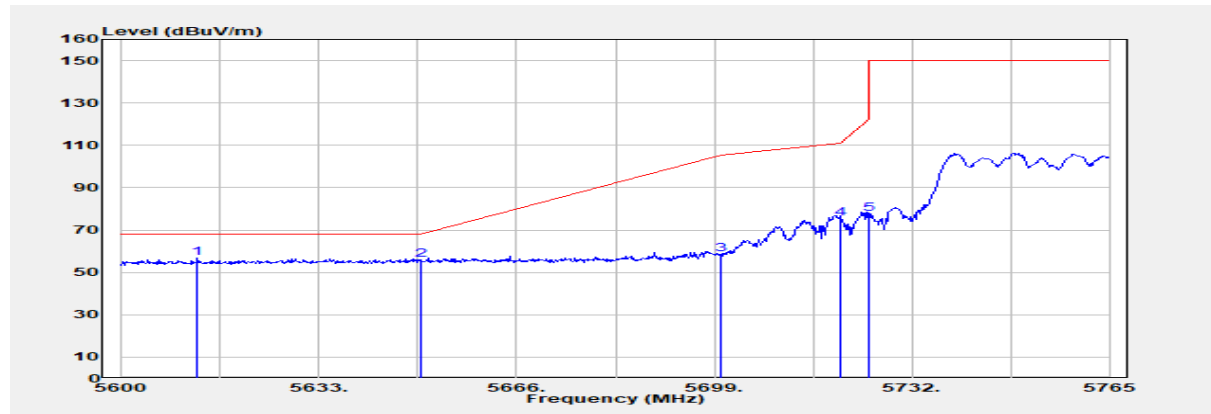
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.000	Peak	62.12	3.46	65.58	68.20	-2.62
5729.120	Peak	63.21	3.45	66.66	68.20	-1.54

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Report Number :TERF2402000378E2
Operation Mode :802.11n40
Test Frequency :5755 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Vertical
Engineer :Sam Huang



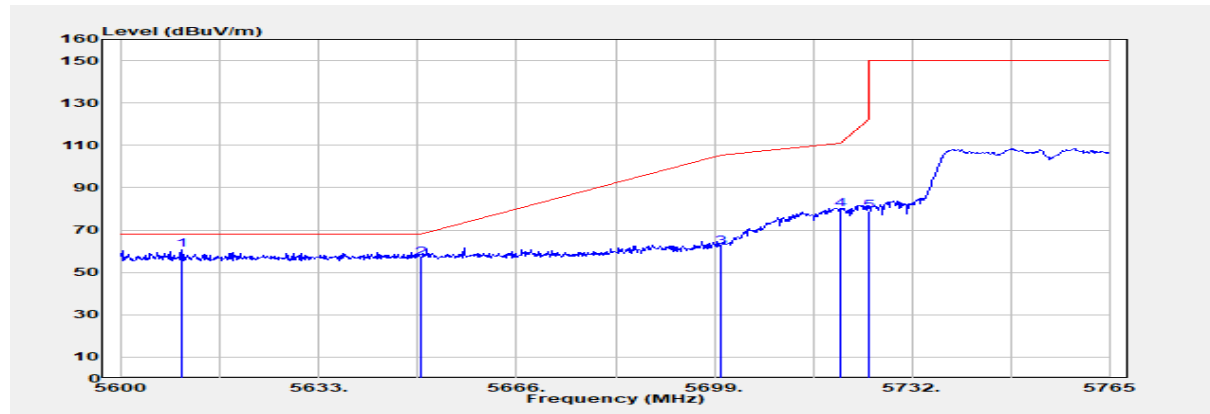
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5612.705	Peak	54.35	2.39	56.74	68.20	-11.46
5650.000	Peak	52.51	3.21	55.72	68.20	-12.48
5700.000	Peak	54.96	3.50	58.46	105.20	-46.74
5720.000	Peak	71.81	3.46	75.28	110.80	-35.52
5725.000	Peak	74.14	3.46	77.59	122.20	-44.61

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Report Number :TERF2402000378E2
Operation Mode :802.11n40
Test Frequency :5755 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Horizontal
Engineer :Sam Huang



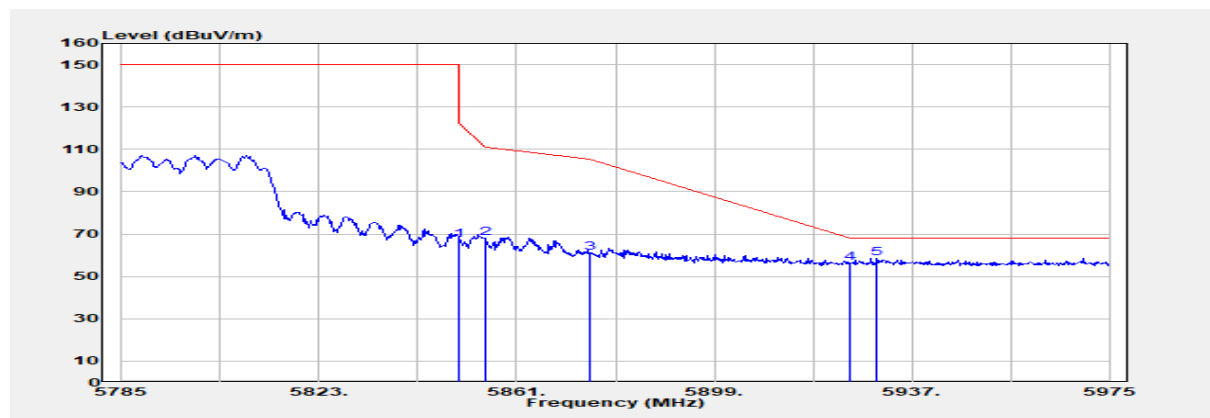
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5610.065	Peak	58.42	2.33	60.75	68.20	-7.45
5650.000	Peak	53.76	3.21	56.97	68.20	-11.23
5700.000	Peak	58.62	3.50	62.12	105.20	-43.08
5720.000	Peak	76.15	3.46	79.62	110.80	-31.18
5725.000	Peak	75.60	3.46	79.05	122.20	-43.15

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Report Number :TERF2402000378E2
Operation Mode :802.11n40
Test Frequency :5795 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Vertical
Engineer :Sam Huang



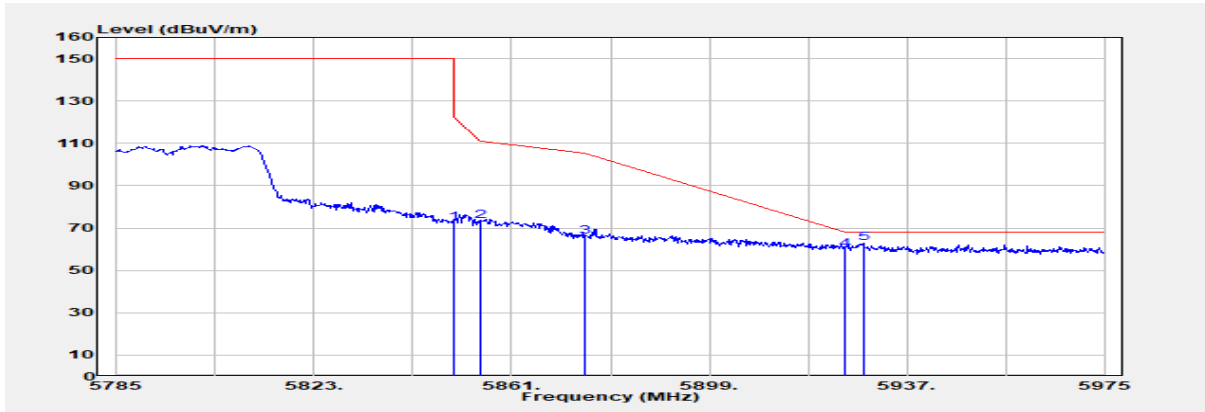
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	63.70	3.42	67.12	122.20	-55.08
5855.000	Peak	64.70	3.39	68.09	110.80	-42.71
5875.000	Peak	58.04	3.29	61.33	105.20	-43.87
5925.000	Peak	53.02	3.52	56.54	68.20	-11.66
5930.350	Peak	55.11	3.59	58.70	68.20	-9.50

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Report Number :TERF2402000378E2
Operation Mode :802.11n40
Test Frequency :5795 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Horizontal
Engineer :Sam Huang



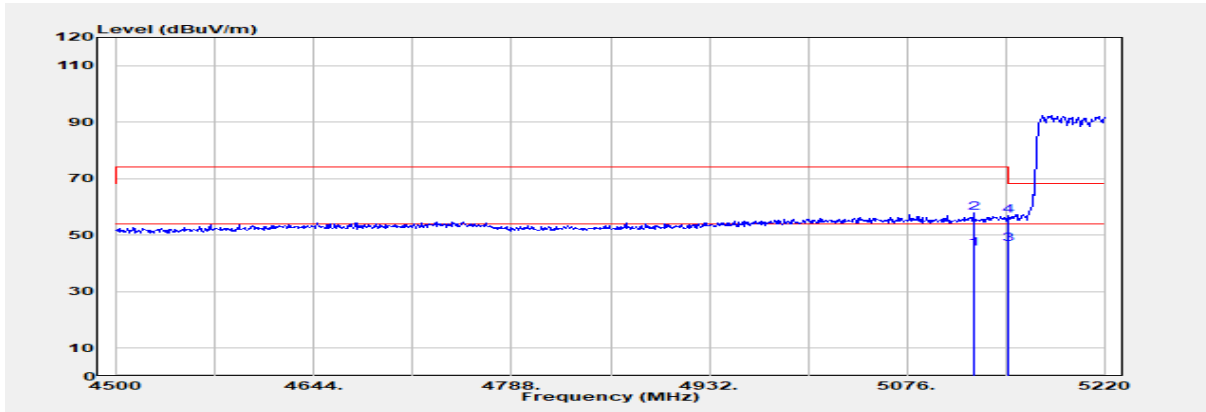
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	68.85	3.42	72.26	122.20	-49.94
5855.000	Peak	69.94	3.39	73.33	110.80	-37.47
5875.000	Peak	62.77	3.29	66.06	105.20	-39.14
5925.000	Peak	56.51	3.52	60.02	68.20	-8.18
5928.640	Peak	59.40	3.57	62.97	68.20	-5.23

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Report Number :TERF2402000378E2
 Operation Mode :802.11ac80
 Test Frequency :5210 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



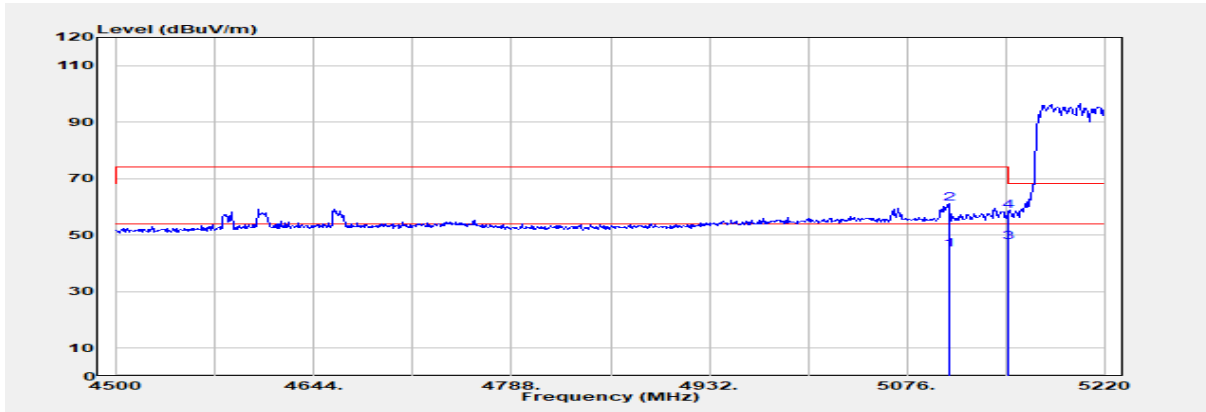
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5124.960	Average	43.25	2.00	45.26	54.00	-8.74
5124.960	Peak	55.86	2.00	57.86	74.00	-16.14
5150.000	Average	45.05	1.86	46.91	54.00	-7.09
5150.000	Peak	54.92	1.86	56.78	74.00	-17.22

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Report Number :TERF2402000378E2
Operation Mode :802.11ac80
Test Frequency :5210 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Horizontal
Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5106.960	Average	42.81	2.10	44.91	54.00	-9.09
5106.960	Peak	59.06	2.10	61.17	74.00	-12.83
5150.000	Average	45.74	1.86	47.61	54.00	-6.39
5150.000	Peak	56.63	1.86	58.49	74.00	-15.51

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11ac80

Test Date :2024-02-26

Test Frequency :5290 MHz

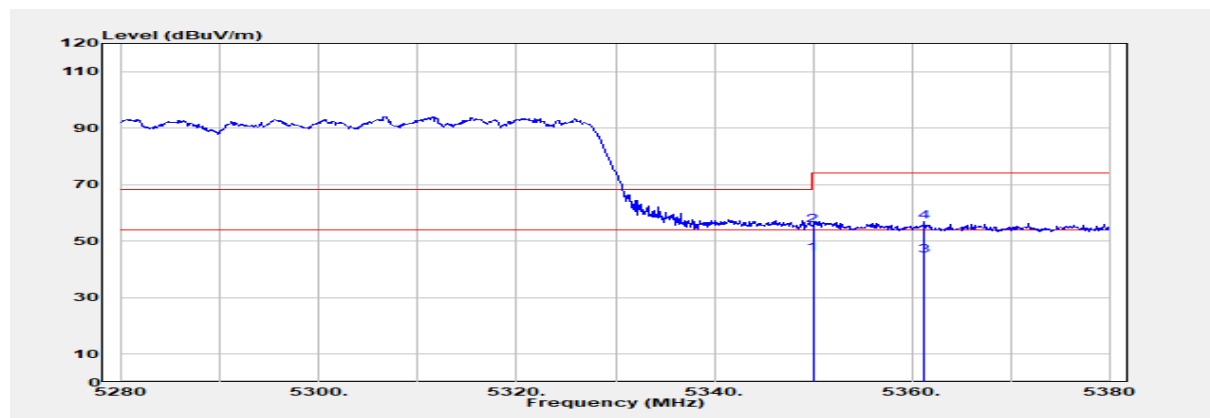
Temp./Humi. :20.9°C/56%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam 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	43.05	2.57	45.63	54.00	-8.37
5350.000	Peak	53.15	2.57	55.73	74.00	-18.27
5361.300	Average	42.21	2.67	44.87	54.00	-9.13
5361.300	Peak	54.40	2.67	57.06	74.00	-16.94

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Report Number :TERF2402000378E2

Test Site :SAC D

Operation Mode :802.11ac80

Test Date :2024-02-26

Test Frequency :5290 MHz

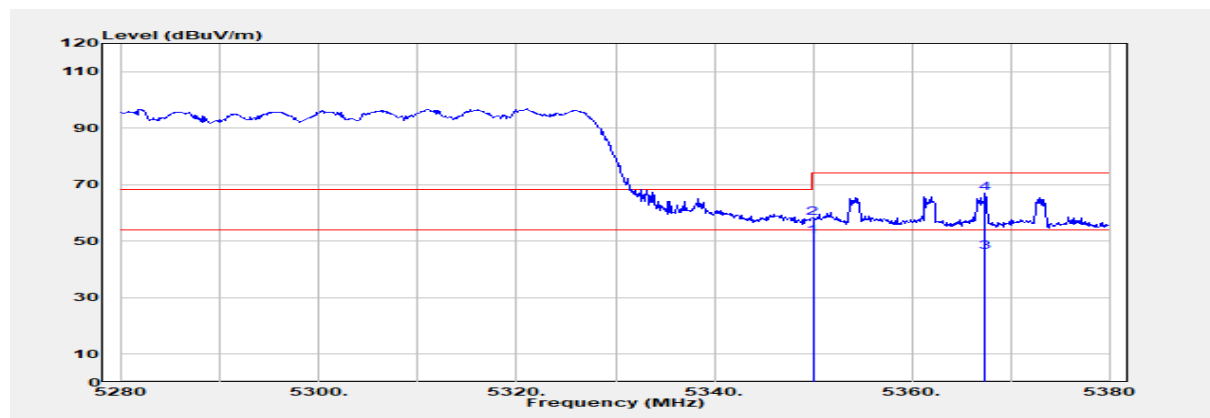
Temp./Humi. :20.9°C/56%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



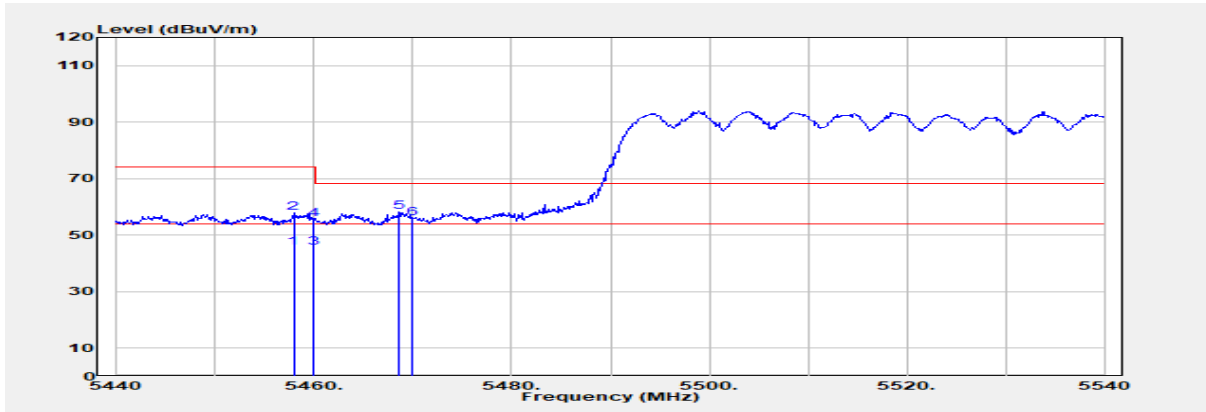
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	49.17	2.57	51.75	54.00	-2.25
5350.000	Peak	55.68	2.57	58.25	74.00	-15.75
5367.400	Average	43.54	2.72	46.26	54.00	-7.74
5367.400	Peak	64.20	2.72	66.92	74.00	-7.08

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Report Number :TERF2402000378E2
Operation Mode :802.11ac80
Test Frequency :5530 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Vertical
Engineer :Sam Huang



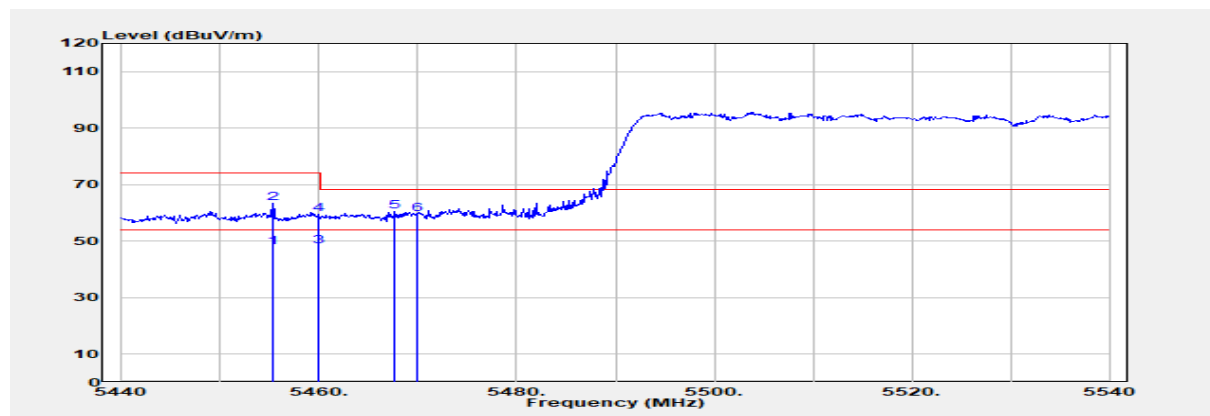
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.900	Average	43.24	2.30	45.54	54.00	-8.46
5457.900	Peak	55.49	2.30	57.79	74.00	-16.21
5460.000	Average	43.14	2.28	45.43	54.00	-8.57
5460.000	Peak	53.19	2.28	55.48	74.00	-18.52
5468.600	Peak	56.14	2.22	58.37	68.20	-9.83
5470.000	Peak	53.68	2.21	55.89	68.20	-12.31

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Report Number :TERF2402000378E2
Operation Mode :802.11ac80
Test Frequency :5530 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Horizontal
Engineer :Sam Huang



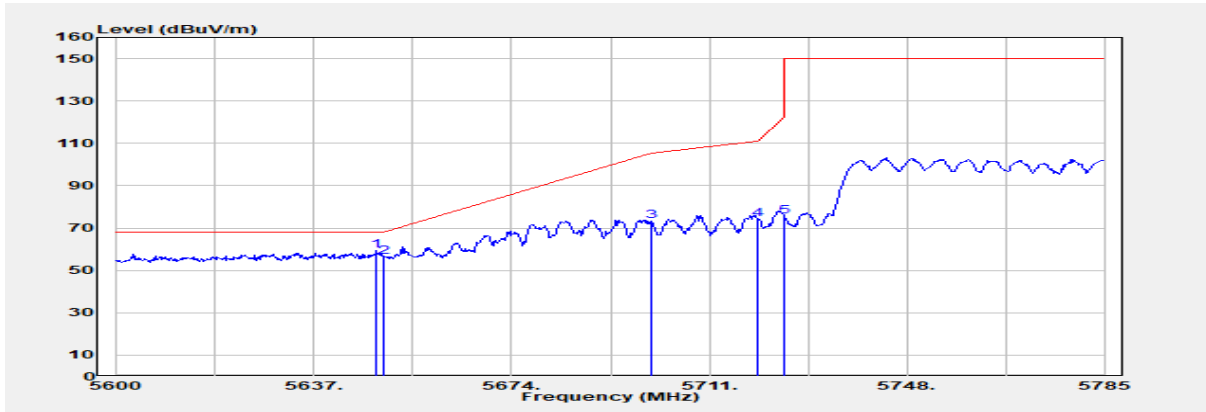
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5455.300	Average	45.52	2.31	47.83	54.00	-6.17
5455.300	Peak	61.26	2.31	63.57	74.00	-10.43
5460.000	Average	45.87	2.28	48.15	54.00	-5.85
5460.000	Peak	57.29	2.28	59.57	74.00	-14.43
5467.700	Peak	58.17	2.23	60.40	68.20	-7.80
5470.000	Peak	57.42	2.21	59.63	68.20	-8.57

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Report Number :TERF2402000378E2
 Operation Mode :802.11ac80
 Test Frequency :5775 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-02-26
 Temp./Humi. :20.9°C/56%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



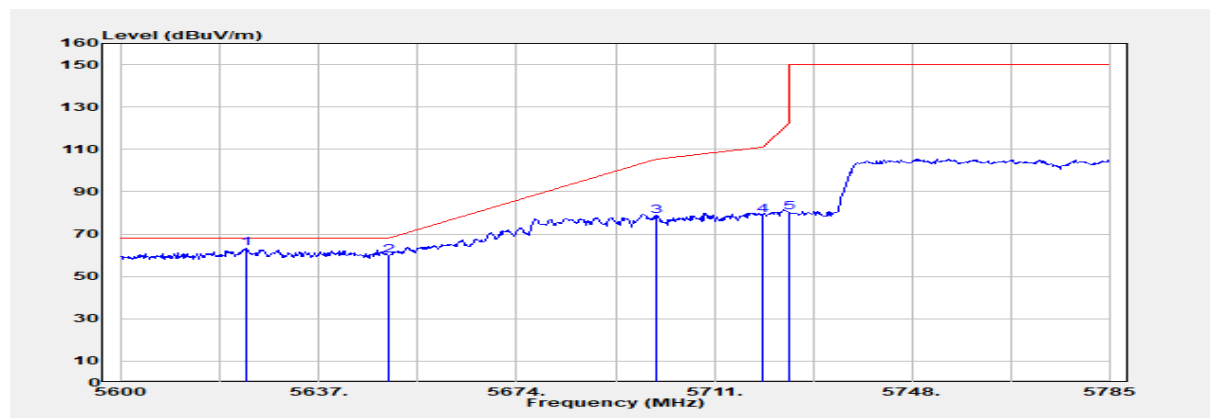
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5648.655	Peak	56.29	3.18	59.47	68.20	-8.73
5650.000	Peak	53.29	3.21	56.50	68.20	-11.70
5700.000	Peak	69.93	3.50	73.43	105.20	-31.77
5720.000	Peak	70.82	3.46	74.28	110.80	-36.52
5725.000	Peak	71.92	3.46	75.37	122.20	-46.83

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Report Number :TERF2402000378E2
Operation Mode :802.11ac80
Test Frequency :5775 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2024-02-26
Temp./Humi. :20.9°C/56%
Antenna Pol. :Horizontal
Engineer :Sam Huang



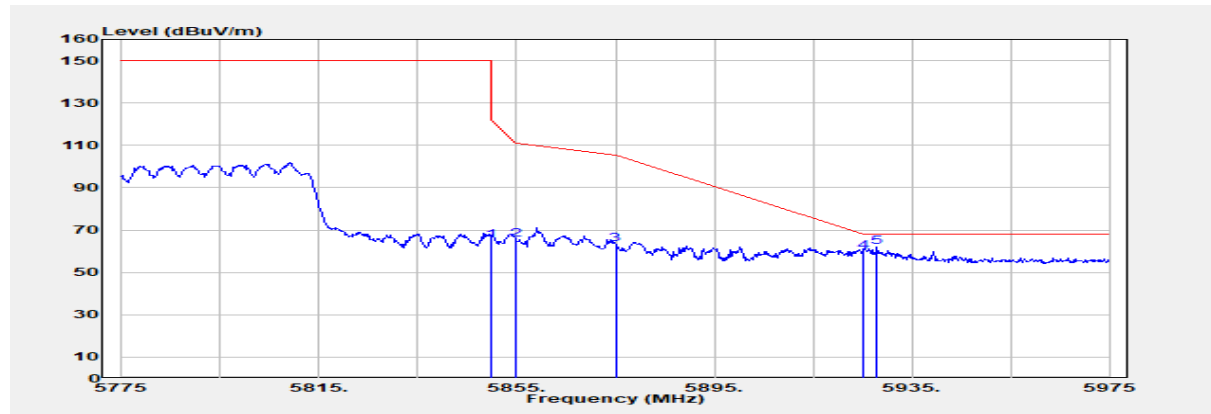
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5623.495	Peak	60.48	2.63	63.11	68.20	-5.09
5650.000	Peak	56.77	3.21	59.98	68.20	-8.22
5700.000	Peak	75.18	3.50	78.68	105.20	-26.52
5720.000	Peak	75.46	3.46	78.93	110.80	-31.87
5725.000	Peak	76.61	3.46	80.07	122.20	-42.13

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Report Number :TERF2402000378E2
 Operation Mode :802.11ac80
 Test Frequency :5775 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-04
 Temp./Humi. :19.5°C/62%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



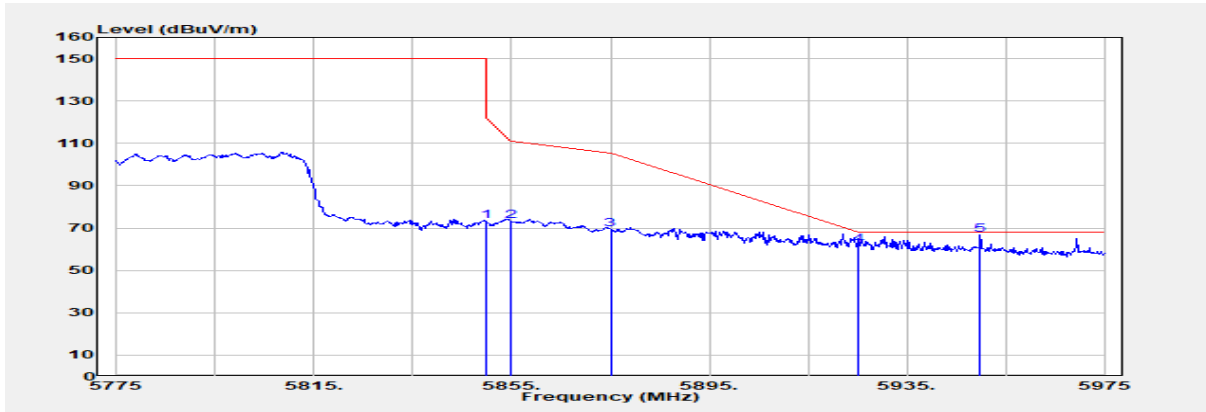
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	61.84	3.42	65.25	122.20	-56.95
5855.000	Peak	61.94	3.39	65.33	110.80	-45.47
5875.000	Peak	60.14	3.29	63.43	105.20	-41.77
5925.000	Peak	56.37	3.52	59.89	68.20	-8.31
5928.000	Peak	58.54	3.56	62.10	68.20	-6.10

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Report Number :TERF2402000378E2
 Operation Mode :802.11ac80
 Test Frequency :5775 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-04
 Temp./Humi. :19.5°C/62%
 Antenna Pol. :Horizontal
 Engineer :Sam 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	70.05	3.42	73.46	122.20	-48.74
5855.000	Peak	69.94	3.39	73.33	110.80	-37.47
5875.000	Peak	65.95	3.29	69.24	105.20	-35.96
5925.000	Peak	58.67	3.52	62.19	68.20	-6.01
5949.800	Peak	62.94	3.86	66.80	68.20	-1.40

~ End of Report ~

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