

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Askey computer corp.
10F, No. 119, JIANKANG RD. ZHONGHE DIST. NEW TAIPEI
CITY Taiwan 23585

Manufacturer: Askey computer corp.
10F, No. 119, JIANKANG RD. ZHONGHE DIST. NEW TAIPEI
CITY Taiwan 23585

Product Name: Connected DashCAM

Brand Name: ASKEY

Model No.: CDR9030

Model Difference: N/A

Report Number: TERF2402000303E2

FCC ID H8NCDR9030

Date of EUT Received: January 31, 2024

Date of Test: February 2, 2024 ~ May 14, 2024

Issue Date: June 13, 2024

Approved By

Aken Huang

Aken Huang

We hereby certify that:

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2402000303E2	00	Original.	June 6, 2024	Karen Huang	
TERF2402000303E2	01	Update applicant's address	June 13, 2024	Karen Huang	*

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:	Connected DashCAM
Brand Name:	ASKEY
Model No.:	CDR9030
Model Difference:	N/A
Hardware Version:	DV rev5
Firmware Version:	sdm660_64-userdebug 9 1.0.0.240430240430.0407 test-keys
EUT Series No.:	E1D1V000003
Power Supply:	12Vdc from car charger; 3.7Vdc from rechargeable Lithium-ion battery
Test Software (Name/Version)	QRCT Version 4.0.00161.0

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 72.2 Mbps
	802.11 n_HT40: up to 150 Mbps
	802.11 ac_VHT20: up to 86.7 Mbps
	802.11 ac_VHT40: up to 200 Mbps
	802.11 ac_VHT80: up to 433.3 Mbps

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1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
Embedded Antenna	5150~5250	3.07
	5250~5350	2.44
	5470~5725	3.17
	5725~5850	2.67

Note:

1. 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/ 802.11ac_VHT20	5180~5240	4	17.76 dBm	OFDM
	5260~5320	4	19.96 dBm	OFDM
	5500~5720	12	19.89 dBm	OFDM
	5745~5825	5	19.98 dBm	OFDM
802.11n_HT40/ 802.11ac_VHT40	5190~5230	2	17.82 dBm	OFDM
	5270~5310	2	19.33 dBm	OFDM
	5510~5710	6	19.49 dBm	OFDM
	5755~5795	2	19.49 dBm	OFDM
802.11ac_VHT80	5210	1	15.92 dBm	OFDM
	5290	1	16.28 dBm	OFDM
	5530~5690	3	19.36 dBm	OFDM
	5775	1	19.39 dBm	OFDM

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

NSI C63.10:2013

1.6 Test Facility

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

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

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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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.

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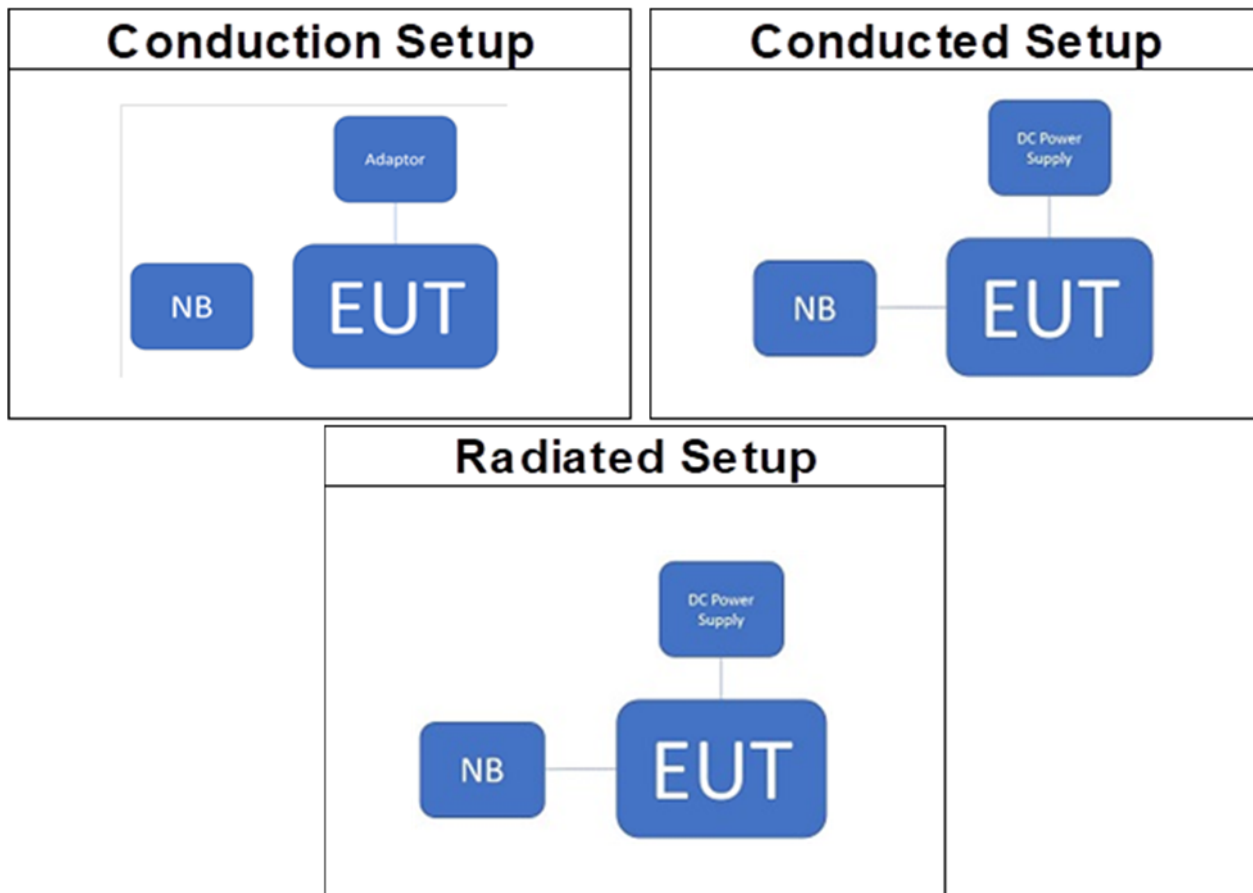
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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A
Adapter	Lapo	WT-02CA	N/A	N/A	N/A
USB Cable	MI	SJX10ZM	N/A	N/A	N/A
Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	HP	HSN-Q35C-4	5CD2428X45	N/A	N/A
Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L440	R9-00W5LW 14/03	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.407(e)	Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-1 5150 MHz ~ 5250MHz

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

UNII-2A 5250 MHz ~ 5350MHz

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

UNII-2C 5470 MHz ~ 5725MHz

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

UNII-3 5725 MHz ~ 5850MHz

20MHz		40MHz		80MHz	
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	
v	802.11 a	v	Ch0		Ch1		Ch2		Ch3	v	1TX	1TX
v	802.11 n	v	Ch0		Ch1		Ch2		Ch3	v	1TX	1TX
v	802.11 ac	v	Ch0		Ch1		Ch2		Ch3	v	1TX	1TX
	802.11 ax		Ch0		Ch1		Ch2		Ch3		1TX	1TX

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	ch0
	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	ch0
	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	ch0
	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	ch0
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			

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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	CH 0
	5260~5320	52 to 64	60			
	5500~5720	100 to 144	116			
	5745~5825	149 to 165	157			
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	36,44,48	OFDM	6	CH 0
	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	CH 0
	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	CH 0
	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	CH 0
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	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 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/30/2024	04/29/2025
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/22/2024	04/21/2025
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2024	03/26/2025
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2024	03/26/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/13/2023	07/12/2024
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	2132007	09/25/2023	09/24/2024
Power Sensor	Anritsu	MA2411B	1911391	09/25/2023	09/24/2024
Power Sensor	Anritsu	MA2411B	1911392	09/25/2023	09/24/2024
DC Power Supply	Gwinstek	SPS-3610	GEV856757	10/23/2023	10/22/2024
Attenuator	Mini-Circuits	BW-S10W2+	15	12/12/2023	12/11/2024
DC Block	Mini-Circuits	BLK-18-S+	31129	12/12/2023	12/11/2024

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Loop Antenna	COM-POWER	AL-130R	10160104	12/04/2023	12/03/2024
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/03/2023	07/02/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2023	08/08/2024
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2023	09/22/2024
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/25/2023	10/24/2024
EMI Test Receiver	R&S	ESCI 7	100759	08/21/2023	08/20/2024
DC Power Supply	HILA	DP-3003N	11233K1019035	03/17/2023	03/16/2024
Pre-Amplifier	EMCI	EMC184045B	980135	08/31/2023	08/30/2024
Pre-Amplifier	HP	8447D	2944A07676	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/31/2023	08/30/2024
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024
Band Reject Filter 5150-5350	Micro-Tronics	BRM50703	1	12/12/2023	12/11/2024
Band Reject Filter 5470-5725	Micro-Tronics	BRM50704	1	12/12/2023	12/11/2024
Band Reject Filter 5725-5875	Micro-Tronics	BRC500705-01	1	12/12/2023	12/11/2024
7G High Pass Filter	WI	WHKX7.0	45	12/12/2023	12/11/2024
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000+EMC107-SM- SM-1500+EMC107- SM-SM- 8000+SUCOFLEX 104PEA	RX Cable 9K-18G (221110+221106+22 1212+MY4251/4PEA)	08/31/2023	08/30/2024
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/31/2023	08/30/2024
Site Cal	SGS	SAC 3	N/A	08/31/2023	08/30/2024
Test Software	audix	e3	Ver. 9.210616	N.C.R	N.C.R

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

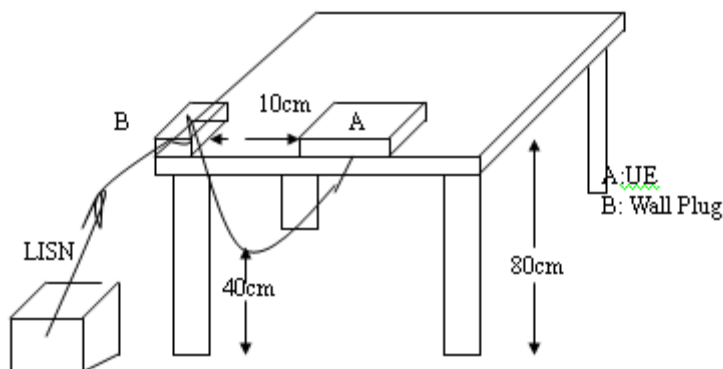
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test SET-UP



7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

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7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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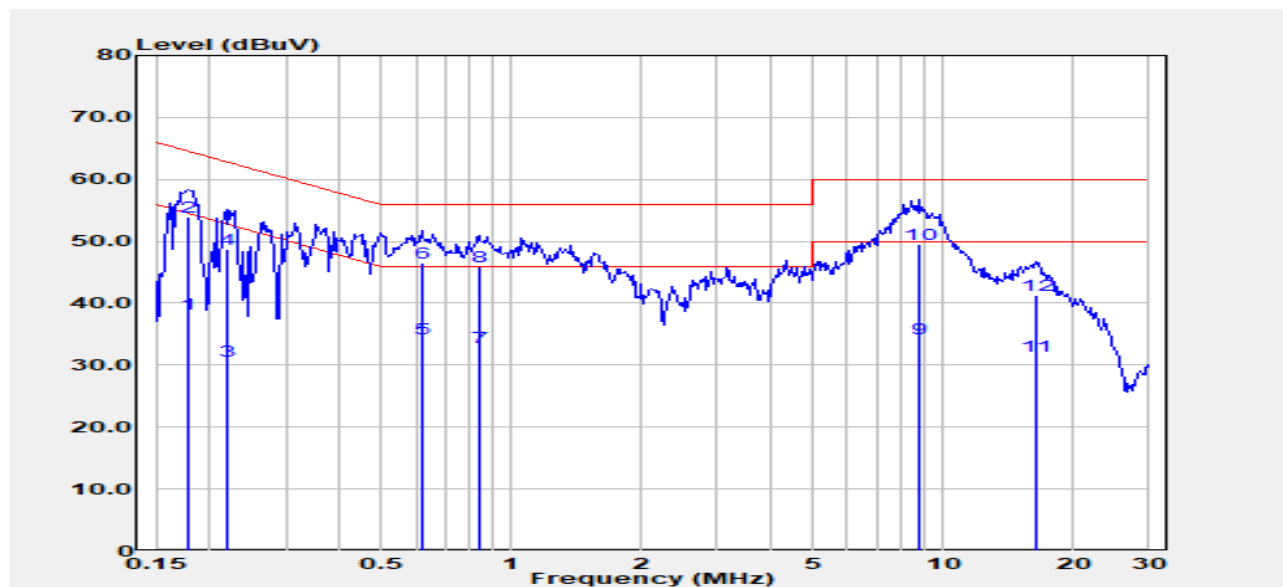
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2402000303E2	Test Site	:Conduction C
Test Mode	:5G	Test Date	:2024-05-14
Power	:120V/60Hz	Temp./Humi.	:22.0°C/51%
Probe	:L1	Engineer	:Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.178	Average	27.60	10.65	38.25	54.59	-16.34
0.178	QP	43.20	10.65	53.85	64.59	-10.74
0.218	Average	20.10	10.65	30.75	52.90	-22.15
0.218	QP	38.00	10.65	48.65	62.90	-14.25
0.619	Average	23.60	10.64	34.24	46.00	-11.76
0.619	QP	35.80	10.64	46.44	56.00	-9.56
0.841	Average	22.30	10.67	32.97	46.00	-13.03
0.841	QP	35.30	10.67	45.97	56.00	-10.03
8.758	Average	23.30	10.96	34.26	50.00	-15.74
8.758	QP	38.60	10.96	49.56	60.00	-10.44
16.417	Average	20.30	11.10	31.40	50.00	-18.60
16.417	QP	30.30	11.10	41.40	60.00	-18.60

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Report Number :TERF2402000303E2

Test Site :Conduction C

Test Mode :5G

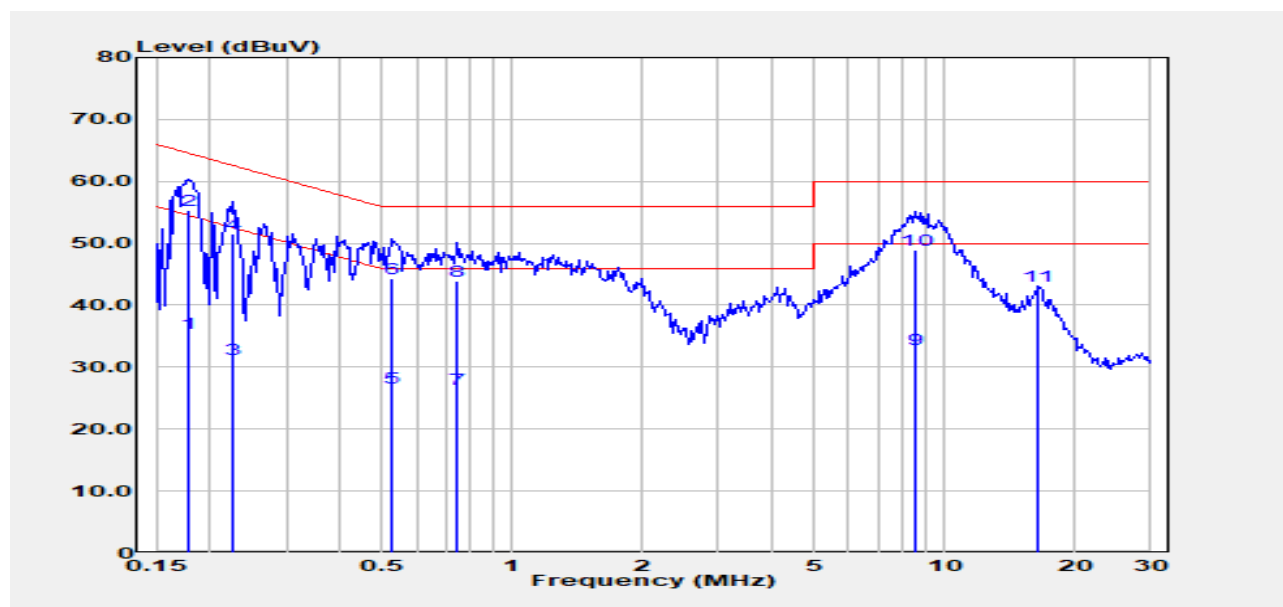
Test Date :2024-05-14

Power :120V/60Hz

Temp./Humi. :22.0°C/51%

Probe :N

Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.178	Average	24.90	10.65	35.55	54.59	-19.04
0.178	QP	44.70	10.65	55.35	64.59	-9.24
0.225	Average	20.70	10.64	31.34	52.61	-21.27
0.225	QP	40.90	10.64	51.54	62.61	-11.07
0.523	Average	16.00	10.61	26.61	46.00	-19.39
0.523	QP	33.80	10.61	44.41	56.00	-11.59
0.747	Average	15.90	10.64	26.54	46.00	-19.46
0.747	QP	33.20	10.64	43.84	56.00	-12.16
8.538	Average	21.90	10.95	32.85	50.00	-17.15
8.538	QP	38.00	10.95	48.95	60.00	-11.05
16.417	Peak	31.96	11.10	43.06	60.00	-16.94

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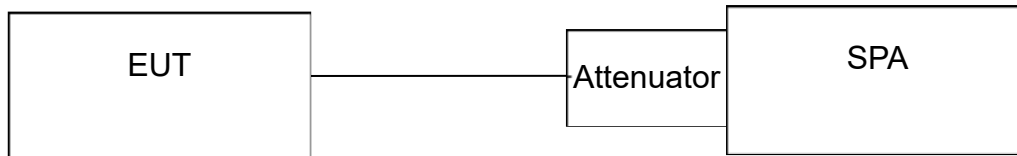
8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3.

8.2 Test Setup



8.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW
Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all frequency of interest measured was complete.

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8.4 Measurement Result

8.4.1 FCC Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	27.41	14.380
5220	25.56	14.080
5240	28.11	14.490
5260	26.13	14.170
5300	25.80	14.120
5320	27.36	14.370
5500	25.83	14.120
5580	27.63	14.410
5700	22.35	13.490
5720(U-NII 2C)	18.20	12.600
5720(U-NII 3)	8.20	9.140

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.35	11.860
5785	16.38	12.140
5825	16.29	12.120

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.37	< 5250
5745	5736.61	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	27.90	14.460
5220	27.04	14.320
5240	27.77	14.440
5260	25.22	14.020
5300	27.41	14.380
5320	26.50	14.230
5500	25.43	14.050
5580	24.48	13.890
5700	22.07	13.440
5720(U-NII 2C)	16.83	12.260
5720(U-NII 3)	6.83	8.340

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.26	12.370
5785	14.48	11.610
5825	12.53	10.980

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.97	< 5250
5745	5736.09	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.49	16.070
5230	41.47	16.180
5270	41.86	16.220
5310	40.73	16.100
5510	41.62	16.190
5550	42.12	16.240
5670	41.47	16.180
5710(U-NII 2C)	35.78	15.540
5710(U-NII 3)	5.78	7.620

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.79	15.540
5795	35.45	15.500

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.15	< 5250
5755	5736.86	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.72	19.180
5290	82.36	19.160
5530	83.10	19.200
5610	93.77	19.720
5690(U-NII 2C)	77.17	18.870
5690(U-NII 3)	7.16	8.550

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.31	18.770

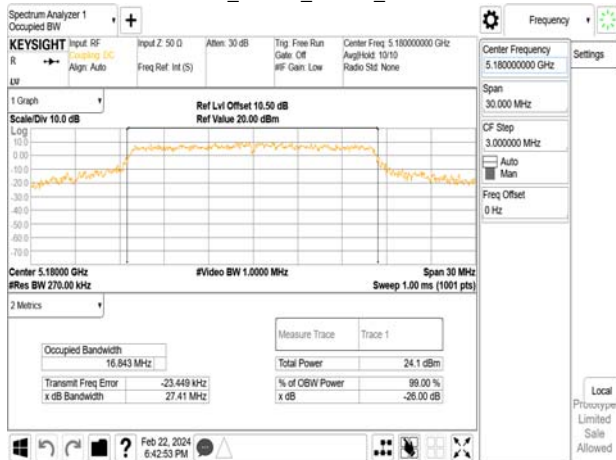
802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.93	< 5250
5775	5737.16	> 5725

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802.11a_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

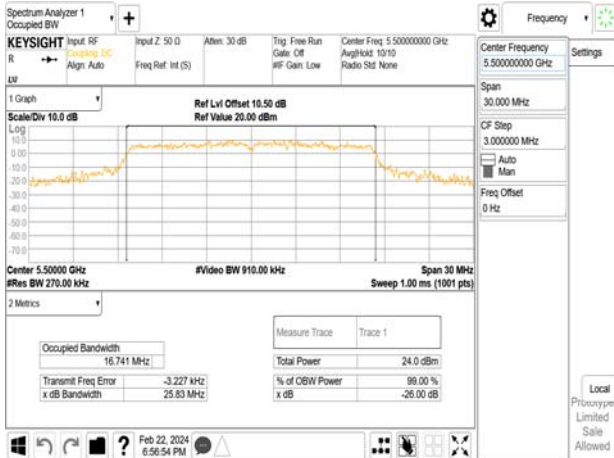


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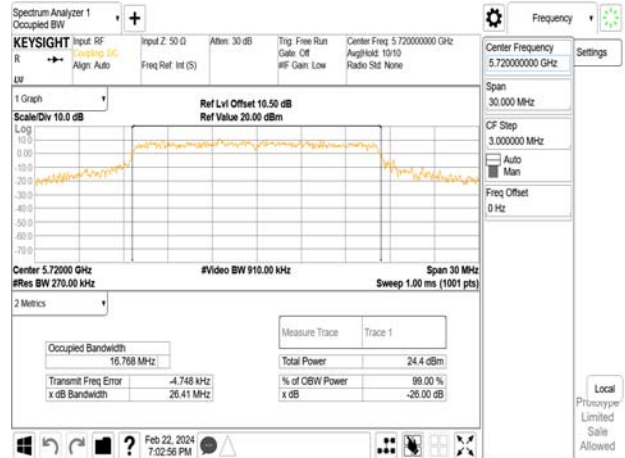
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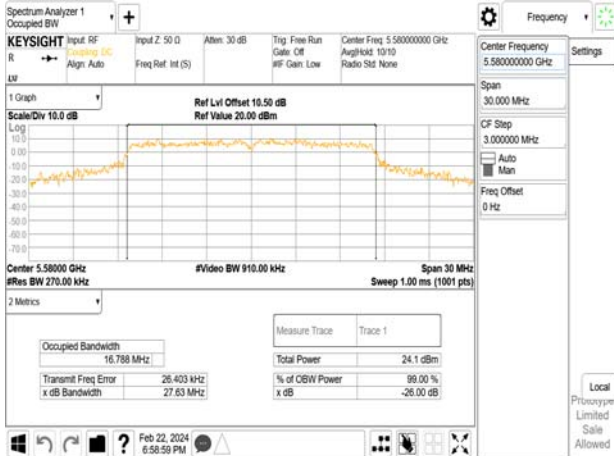
802.11a_20MHz_Chain0_5500MHz



802.11a_20MHz_Chain0_5720MHz



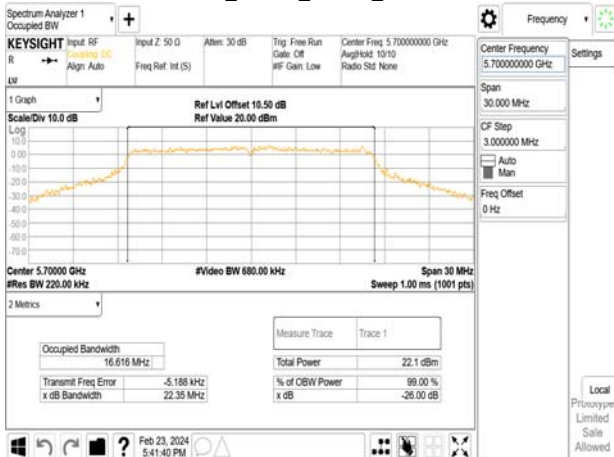
802.11a_20MHz_Chain0_5580MHz



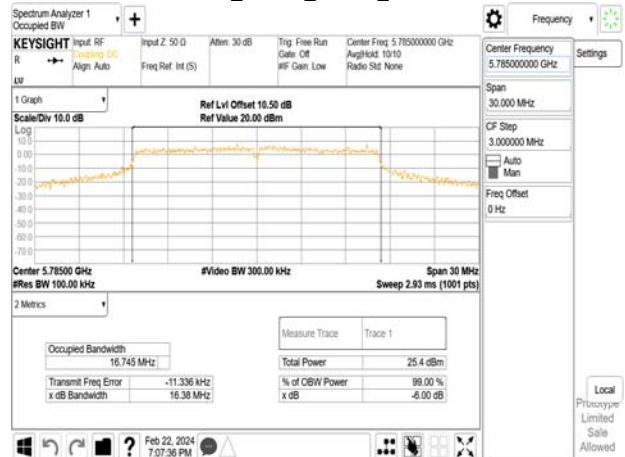
802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz



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802.11a_20MHz_Chain0_5825MHz



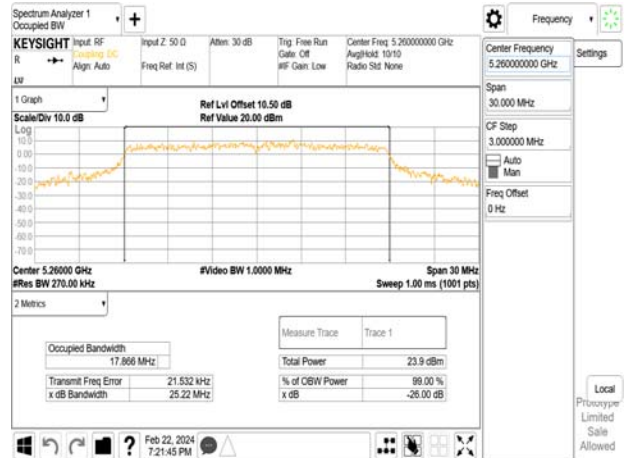
802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5220MHz



802.11n_20MHz_Chain0_5300MHz

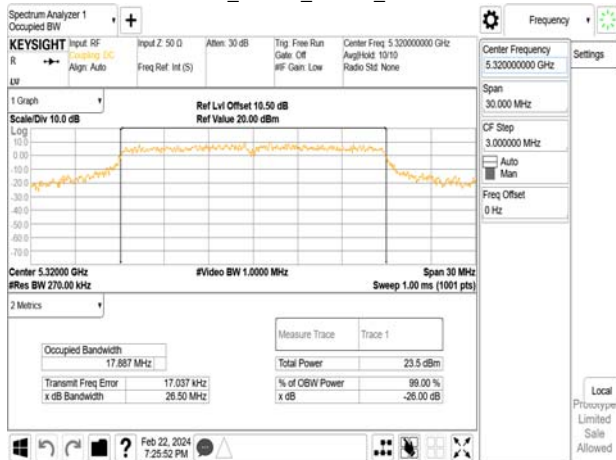


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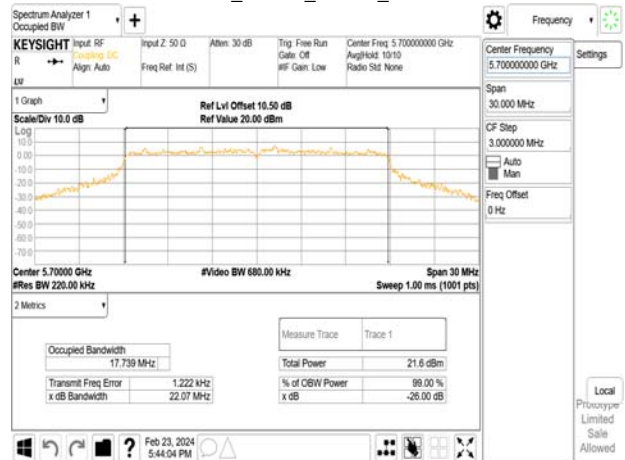
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802.11n_20MHz_Chain0_5320MHz



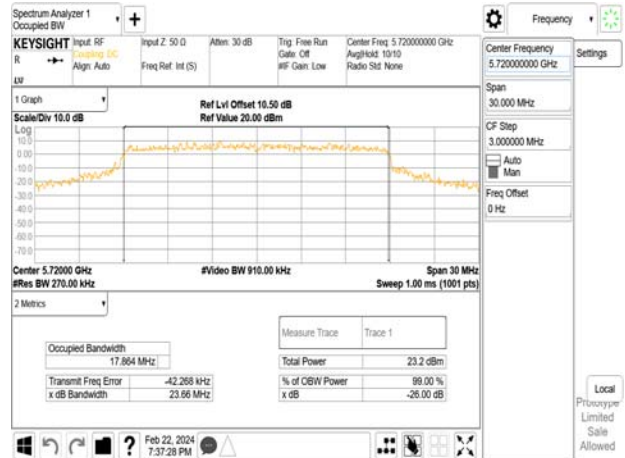
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz



802.11n_20MHz_Chain0_5580MHz



802.11n_20MHz_Chain0_5745MHz

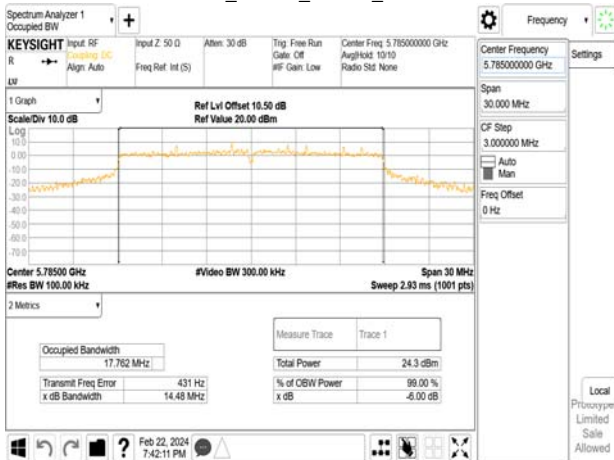


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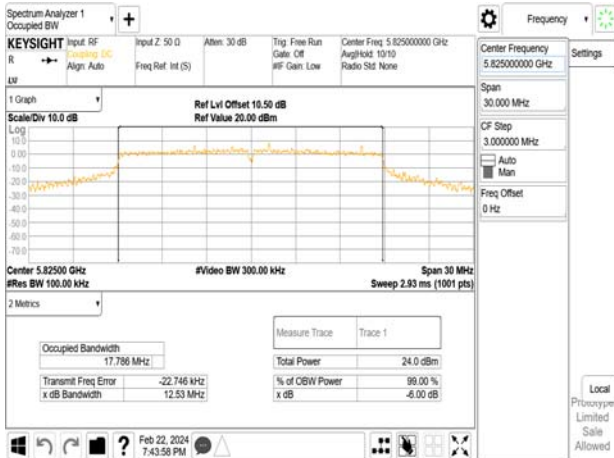
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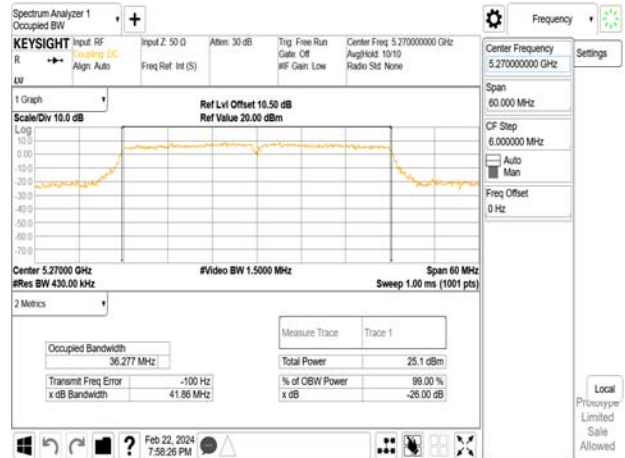
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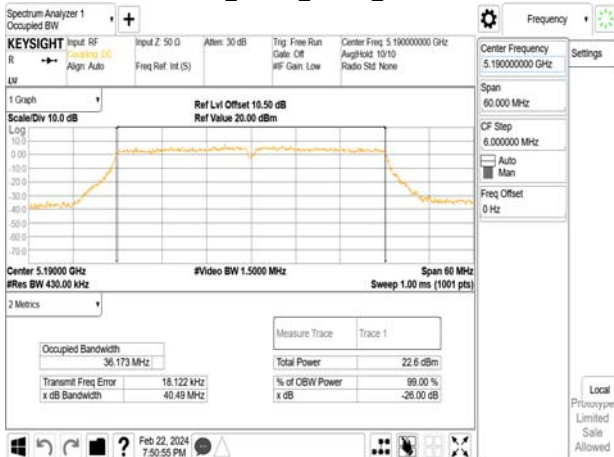
802.11n_20MHz_Chain0_5825MHz



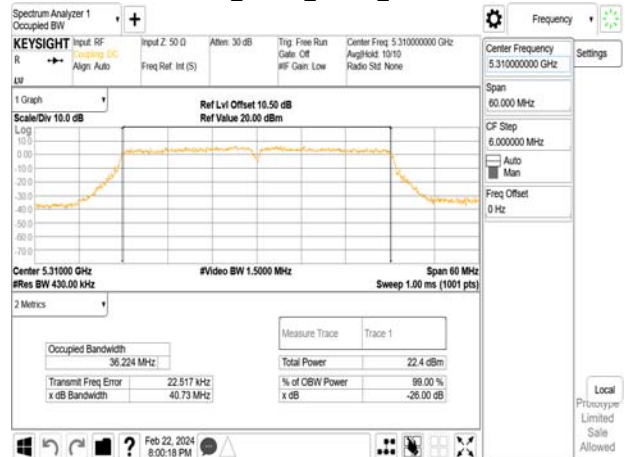
802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5310MHz

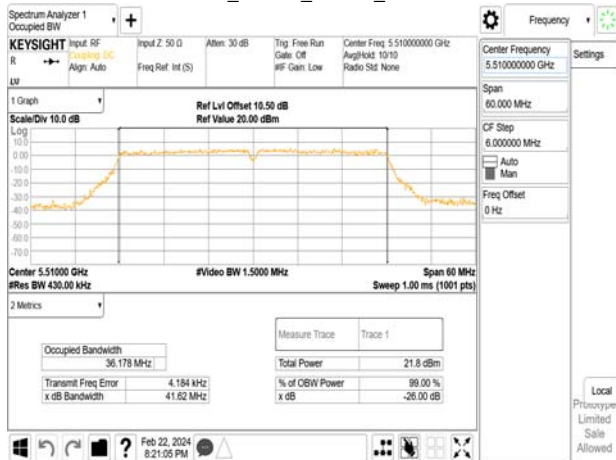


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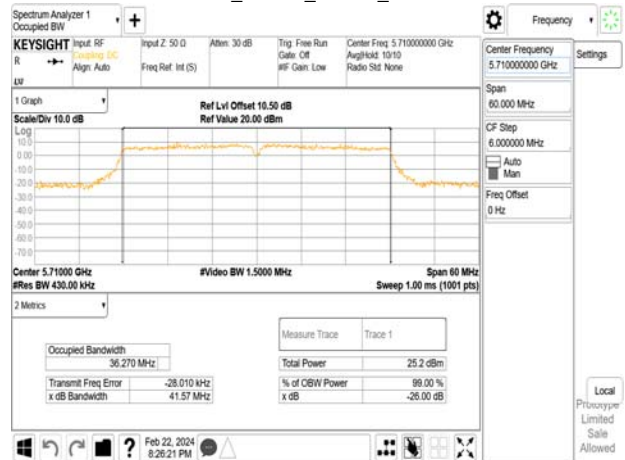
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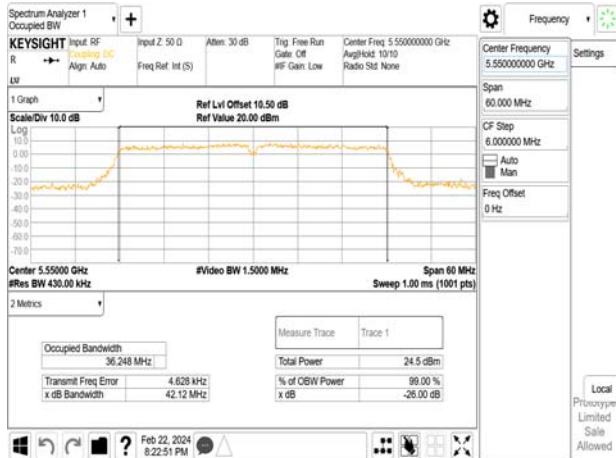
802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz



802.11n_40MHz_Chain0_5550MHz



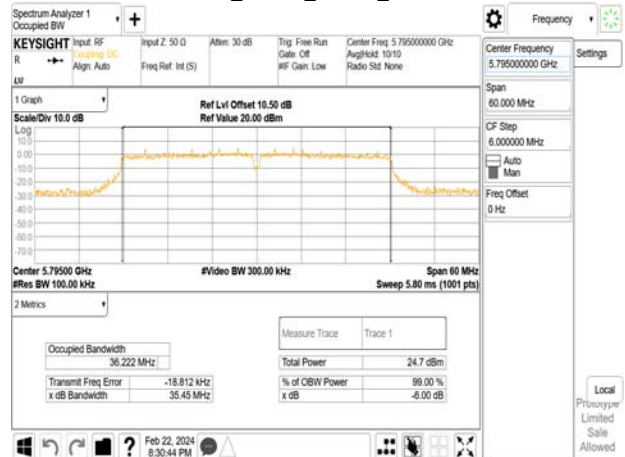
802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5795MHz



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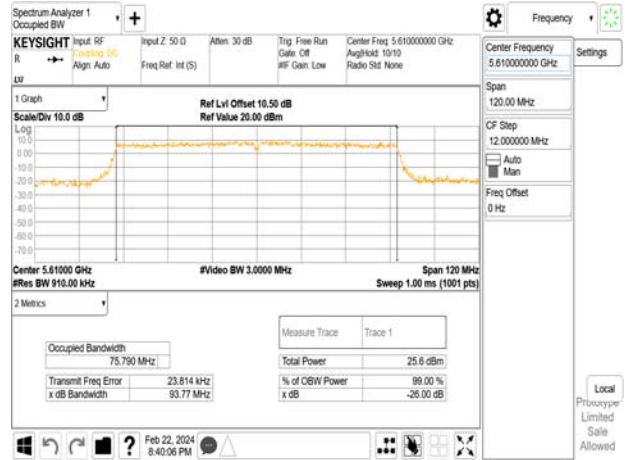
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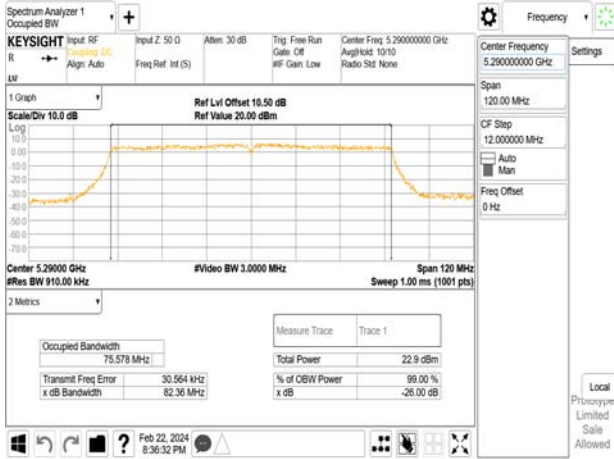
802.11ac_80MHz_Chain0_5210MHz



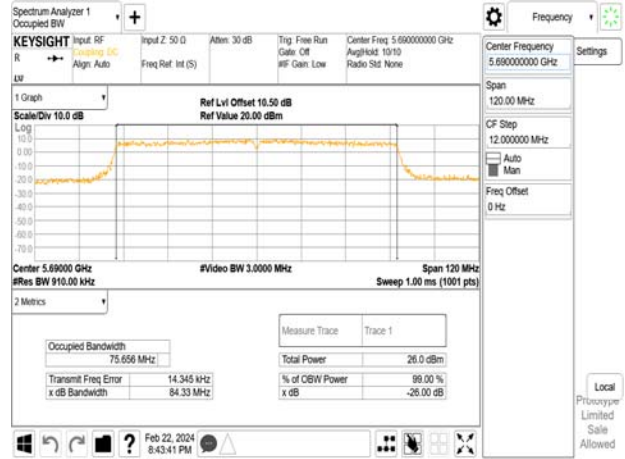
802.11ac_80MHz_Chain0_5610MHz



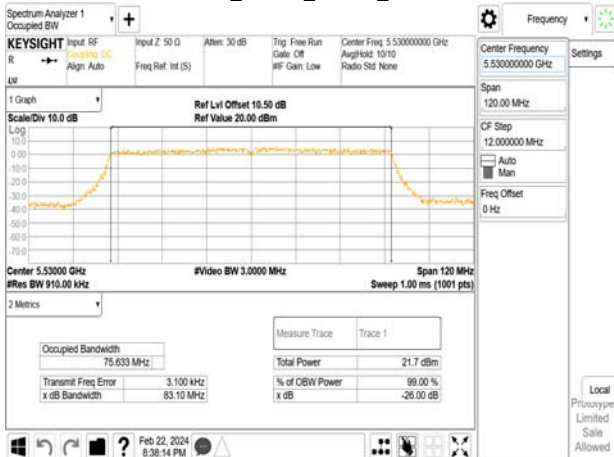
802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5775MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

9.1.1 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.

9.1.2 FCC

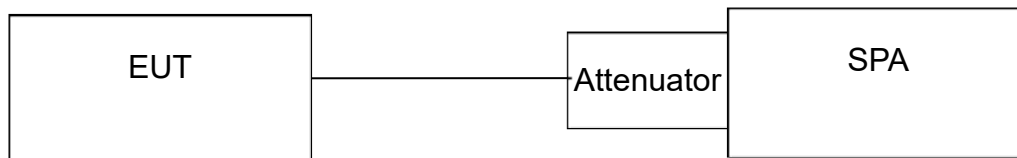
Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
	V	Outdoor AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
		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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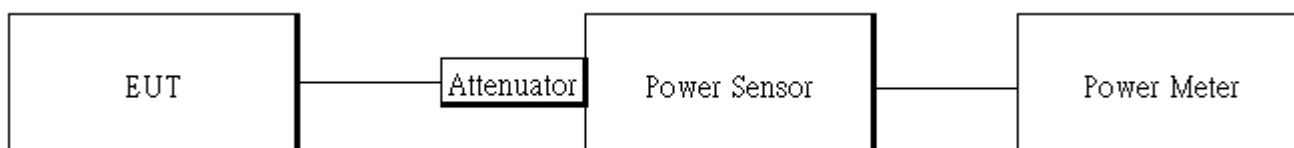
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9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



9.3 Measurement Procedure

9.3.1 Duty Cycle Measurements

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

9.3.2 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.

Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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9.4 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	94.68	0.24	0.49	1.00
802.11n_20	93.47	0.29	0.53	1.00
802.11ac_20	94.53	0.24	0.53	1.00
802.11n_40	90.10	0.45	1.08	2.00
802.11ac_40	90.87	0.42	1.07	2.00
802.11ac_80	83.52	0.78	2.19	3.00

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802.11a_20MHz_Chain0_5180MHz



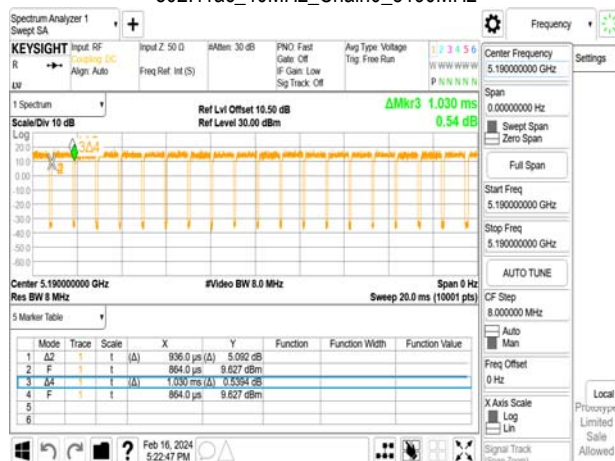
802.11ac_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5180MHz



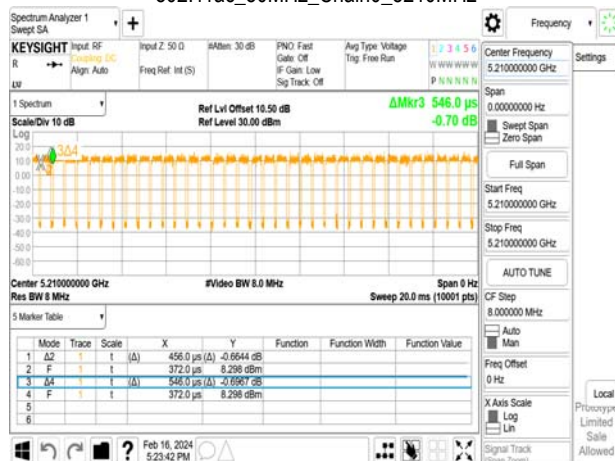
802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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9.5 Output Power Measurement Result

9.5.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	17	17.49	56.071	30	PASS
44	5220	6	17	17.44	55.430	30	PASS
48	5240	6	17	17.37	54.543	30	PASS
52	5260	6	20	19.68	92.841	23.98	PASS
60	5300	6	20.5	19.94	98.569	23.98	PASS
64	5320	6	20.5	19.96	99.024	23.98	PASS
100	5500	6	20.5	19.88	97.217	23.98	PASS
116	5580	6	20.5	19.89	97.441	23.98	PASS
140	5700	6	16.5	16.50	44.642	23.98	PASS
144	5720(U-NII 2C)	6	20.5	18.30	67.63	23.6	PASS
144	5720 (U-NII 3)	6	20.5	14.84	30.48	30	PASS
149	5745	6	20.5	19.82	95.883	30	PASS
157	5785	6	20.5	19.79	95.223	30	PASS
165	5825	6	20.5	19.98	99.481	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17.5	17.76	59.749	30	PASS
44	5220	MCS0	17.5	17.73	59.337	30	PASS
48	5240	MCS0	17.5	17.74	59.474	30	PASS
52	5260	MCS0	20	19.48	88.783	23.98	PASS
60	5300	MCS0	20	19.46	88.375	23.98	PASS
64	5320	MCS0	20	19.47	88.578	23.98	PASS
100	5500	MCS0	20	19.23	83.816	23.98	PASS
116	5580	MCS0	20	19.32	85.571	23.98	PASS
140	5700	MCS0	16	15.87	38.666	23.98	PASS
144	5720(U-NII 2C)	MCS0	20	17.88	61.43	23.98	PASS
144	5720 (U-NII 3)	MCS0	20	13.97	24.93	30	PASS
149	5745	MCS0	20	19.28	84.787	30	PASS
157	5785	MCS0	20	19.41	87.363	30	PASS
165	5825	MCS0	20	19.38	86.762	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17.5	17.58	57.336	30	PASS
44	5220	MCS0	17.5	17.61	57.734	30	PASS
48	5240	MCS0	17.5	17.56	57.073	30	PASS
52	5260	MCS0	19.5	19.18	82.876	23.98	PASS
60	5300	MCS0	20	19.36	86.383	23.98	PASS
64	5320	MCS0	20	19.33	85.789	23.98	PASS
100	5500	MCS0	20	19.15	82.306	23.98	PASS
116	5580	MCS0	20	19.24	84.029	23.98	PASS
140	5700	MCS0	16	15.76	37.708	23.98	PASS
144	5720(U-NII 2C)	MCS0	20	17.81	60.46	23.98	PASS
144	5720 (U-NII 3)	MCS0	20	13.90	24.54	30	PASS
149	5745	MCS0	20	19.22	83.643	30	PASS
157	5785	MCS0	20	19.32	85.591	30	PASS
165	5825	MCS0	20	19.31	85.395	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	16	16.65	46.267	30	PASS
46	5230	MCS0	17.5	17.82	60.572	30	PASS
54	5270	MCS0	19	19.33	85.758	23.98	PASS
62	5310	MCS0	16.5	17.06	50.848	23.98	PASS
102	5510	MCS0	17	17.35	54.359	23.98	PASS
110	5550	MCS0	19.5	19.49	88.976	23.98	PASS
134	5670	MCS0	19.5	19.46	88.364	23.98	PASS
142	5710(U-NII 2C)	MCS0	19.5	18.84	76.59	23.98	PASS
142	5710 (U-NII 3)	MCS0	19.5	10.93	12.38	30	PASS
151	5755	MCS0	19.5	19.48	88.772	30	PASS
159	5795	MCS0	19.5	19.49	88.976	30	PASS

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CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	16	16.52	44.831	30	PASS
46	5230	MCS0	17.5	17.78	59.921	30	PASS
54	5270	MCS0	19	19.23	83.672	23.98	PASS
62	5310	MCS0	16.5	16.84	48.259	23.98	PASS
102	5510	MCS0	17	17.13	51.592	23.98	PASS
110	5550	MCS0	19.5	19.44	87.817	23.98	PASS
134	5670	MCS0	19.5	19.44	87.817	23.98	PASS
142	5710(U-NII 2C)	MCS0	19.5	18.79	75.60	23.98	PASS
142	5710 (U-NII 3)	MCS0	19.5	10.87	12.22	30	PASS
151	5755	MCS0	19.5	19.43	87.615	30	PASS
159	5795	MCS0	19.5	19.45	88.020	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	15.5	15.92	39.103	30	PASS
58	5290	MCS0	16	16.28	42.482	23.98	PASS
106	5530	MCS0	16	16.21	41.803	23.98	PASS
122	5610	MCS0	19.5	19.36	86.339	23.98	PASS
138	5690(U-NII 2C)	MCS0	19.5	19.09	81.03	23.98	PASS
138	5690 (U-NII 3)	MCS0	19.5	8.76	7.52	30	PASS
155	5775	MCS0	19.5	19.39	86.938	30	PASS

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9.5.2 FCC Outdoor AP Band 1 EIRP Power

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	ELEVATION ABOVE 30° MAX GAIN (dBi)	ELEVATION ABOVE 30° MAX EIRP (dBm)	EIRP LIMIT (dBm)	RESULT
36	5180	17.49	3.07	20.56	21.00	PASS
44	5220	17.44	3.07	20.51	21.00	PASS
48	5240	17.37	3.07	20.44	21.00	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	ELEVATION ABOVE 30° MAX GAIN (dBi)	ELEVATION ABOVE 30° MAX EIRP (dBm)	EIRP LIMIT (dBm)	RESULT
36	5180	17.76	3.07	20.83	21.00	PASS
44	5220	17.73	3.07	20.80	21.00	PASS
48	5240	17.74	3.07	20.81	21.00	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	ELEVATION ABOVE 30° MAX GAIN (dBi)	ELEVATION ABOVE 30° MAX EIRP (dBm)	EIRP LIMIT (dBm)	RESULT
38	5190	16.65	3.07	19.72	21.00	PASS
46	5230	17.82	3.07	20.89	21.00	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	ELEVATION ABOVE 30° MAX GAIN (dBi)	ELEVATION ABOVE 30° MAX EIRP (dBm)	EIRP LIMIT (dBm)	RESULT
36	5180	17.58	3.07	20.65	21.00	PASS
44	5220	17.61	3.07	20.68	21.00	PASS
48	5240	17.56	3.07	20.63	21.00	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	ELEVATION ABOVE 30° MAX GAIN (dBi)	ELEVATION ABOVE 30° MAX EIRP (dBm)	EIRP LIMIT (dBm)	RESULT
38	5190	16.52	3.07	19.59	21.00	PASS
46	5230	17.78	3.07	20.85	21.00	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	ELEVATION ABOVE 30° MAX GAIN (dBi)	ELEVATION ABOVE 30° MAX EIRP (dBm)	EIRP LIMIT (dBm)	RESULT
42	5210	15.92	3.07	18.99	21.00	PASS

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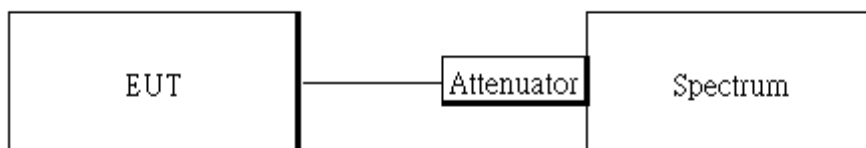
10 MAXIMUM POWER SPECTRAL DENSITY

10.1 FCC Standard

Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1	V	Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
		Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Point	17dBm / MHz	23dBi
		Client device	11dBm / MHz	6dBi
U-NII-2A	V	All	11dBm / MHz	6dBi
U-NII-2C	V	All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
U-NII-4		Indoor AP	20dBm / MHz e.i.r.p.	Not required
		indoor client	14dBm / MHz e.i.r.p.	Not required
		subordinate device	20dBm / MHz e.i.r.p.	Not required

If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna.

10.2 Test Setup



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10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. For U-NII1, U-NII-2A, U-NII-2C Band:
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log(500 \text{ kHz/RBW})$ to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. (1)Duty cycle $\geq 98\%$: Record the max. reading.
(2)Duty cycle $< 98\%$: Record the max. reading and add $10 \log(1/\text{duty cycle})$.
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

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10.4 Measurement Result

POWER DENSITY 802.11a MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	6.998	0.24	7.24		17.00 dBm/MHz	-9.76
5220	6.519	0.24	6.76		17.00 dBm/MHz	-10.24
5240	6.632	0.24	6.87		17.00 dBm/MHz	-10.13
5260	8.800	0.24	9.04		11.00 dBm/MHz	-1.96
5300	9.036	0.24	9.28		11.00 dBm/MHz	-1.72
5320	8.962	0.24	9.20		11.00 dBm/MHz	-1.80
5500	7.649	0.24	7.89		11.00 dBm/MHz	-3.11
5580	8.562	0.24	8.80		11.00 dBm/MHz	-2.20
5700	5.952	0.24	6.19		11.00 dBm/MHz	-4.81
5720 (U-NII 2C)	9.373	0.24	9.61		11.00 dBm/MHz	-1.39
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	2.722	0.24	2.22	5.18	30.00 dBm/500kHz	-24.82
5745	4.257	0.24	2.22	6.72	30.00 dBm/500kHz	-23.28
5785	4.160	0.24	2.22	6.62	30.00 dBm/500kHz	-23.38
5825	4.142	0.24	2.22	6.60	30.00 dBm/500kHz	-23.40

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POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	6.763	0.29	7.05		17.00 dBm/MHz	-9.95
5220	6.518	0.29	6.81		17.00 dBm/MHz	-10.19
5240	6.913	0.29	7.20		17.00 dBm/MHz	-9.80
5260	8.875	0.29	9.17		11.00 dBm/MHz	-1.84
5300	8.318	0.29	8.61		11.00 dBm/MHz	-2.39
5320	8.113	0.29	8.40		11.00 dBm/MHz	-2.60
5500	6.851	0.29	7.14		11.00 dBm/MHz	-3.86
5580	7.259	0.29	7.55		11.00 dBm/MHz	-3.45
5700	5.358	0.29	5.65		11.00 dBm/MHz	-5.35
5720 (U-NII 2C)	7.889	0.29	8.18		11.00 dBm/MHz	-2.82
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	1.244	0.29	2.22	3.75	30.00 dBm/500kHz	-26.25
5745	2.675	0.29	2.22	5.19	30.00 dBm/500kHz	-24.82
5785	2.591	0.29	2.22	5.10	30.00 dBm/500kHz	-24.90
5825	2.890	0.29	2.22	5.40	30.00 dBm/500kHz	-24.60
POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	2.783	0.45	3.23		17.00 dBm/MHz	-13.77
5230	4.838	0.45	5.29		17.00 dBm/MHz	-11.71
5270	5.238	0.45	5.69		11.00 dBm/MHz	-5.31
5310	2.478	0.45	2.93		11.00 dBm/MHz	-8.07
5510	1.850	0.45	2.30		11.00 dBm/MHz	-8.70
5550	4.597	0.45	5.05		11.00 dBm/MHz	-5.95
5670	4.758	0.45	5.21		11.00 dBm/MHz	-5.79
5710 (U-NII 2C)	5.469	0.45	5.92		11.00 dBm/MHz	-5.08
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	-1.703	0.45	2.22	0.97	30.00 dBm/500kHz	-29.03
5755	-0.082	0.45	2.22	2.59	30.00 dBm/500kHz	-27.41
5795	0.446	0.45	2.22	3.12	30.00 dBm/500kHz	-26.88

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POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-1.378	0.78	-0.60		17.00 dBm/MHz	-17.60
5290	-1.177	0.78	-0.40		11.00 dBm/MHz	-11.40
5530	-2.631	0.78	-1.85		11.00 dBm/MHz	-12.85
5610	1.459	0.78	2.24		11.00 dBm/MHz	-8.76
5690 (U-NII 2C)	2.016	0.78	2.80		11.00 dBm/MHz	-8.20
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	-5.518	0.78	2.22	-2.52	30.00 dBm/500kHz	-32.52
5775	-3.165	0.78	2.22	-0.17	30.00 dBm/500kHz	-30.17

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802.11a_20MHz_Chain0_5180MHz



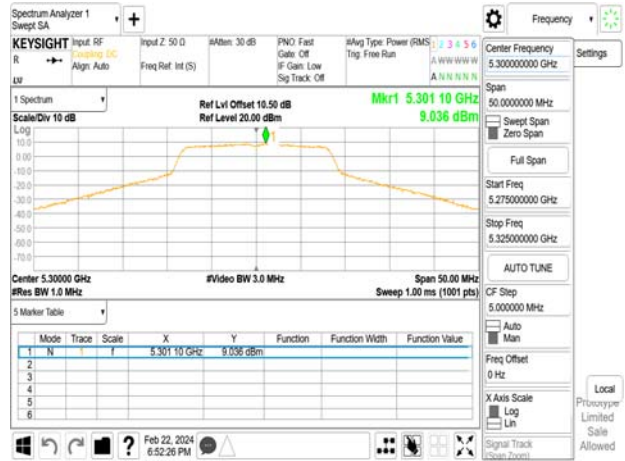
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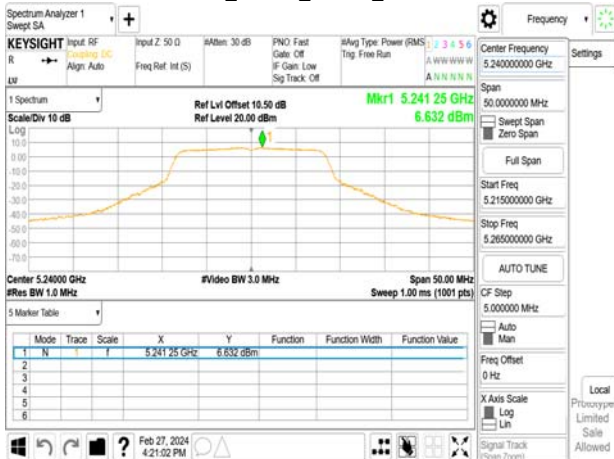
802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz



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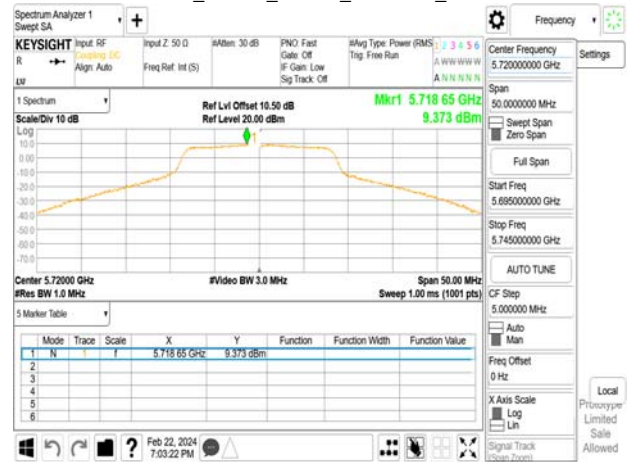
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802.11a_20MHz_Chain0_5500MHz



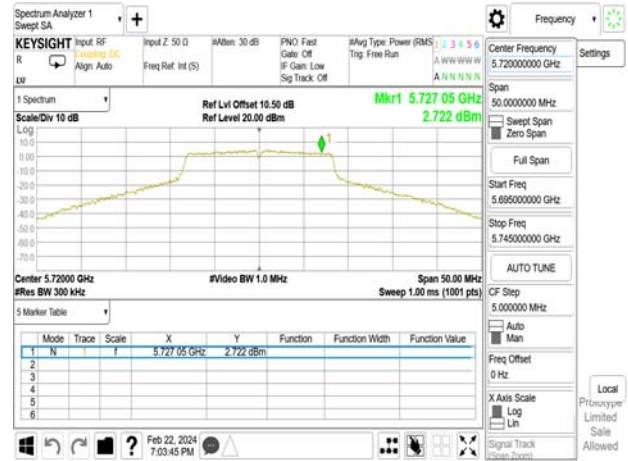
802.11a_20MHz_Chain0_5720MHz_UNII 2C



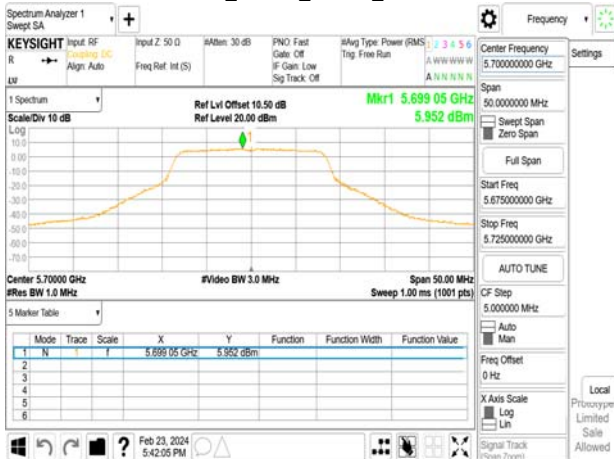
802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5720MHz_UNII 3



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5745MHz

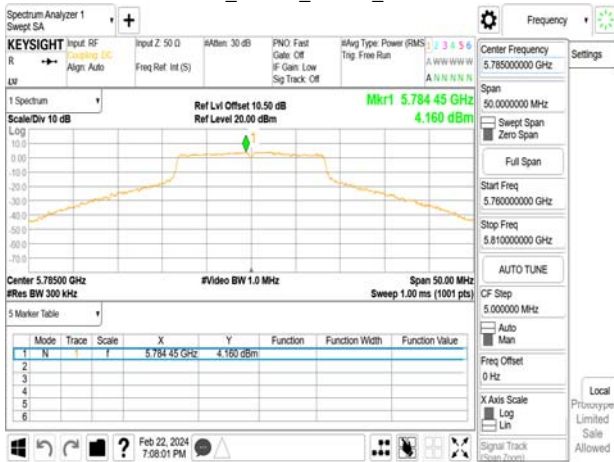


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802.11a_20MHz_Chain0_5785MHz



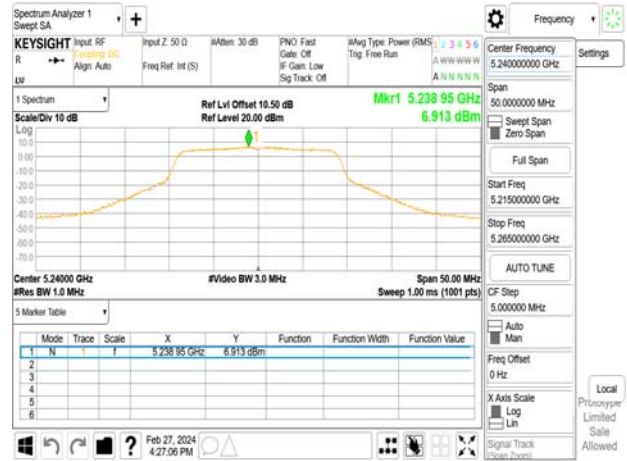
802.11n_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz



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802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5580MHz



802.11n_20MHz_Chain0_5320MHz



802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz_UNII 2C



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802.11n_20MHz_Chain0_5720MHz_UNII 3



802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain0_5745MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain0_5785MHz



802.11n_40MHz_Chain0_5230MHz



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802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5550MHz



802.11n_40MHz_Chain0_5310MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz_UNII 2C



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802.11n_40MHz_Chain0_5710MHz_UNI3



802.11ac_80MHz_Chain0_5210MHz



802.11n_40MHz_Chain0_5755MHz



802.11ac_80MHz_Chain0_5290MHz



802.11n_40MHz_Chain0_5795MHz



802.11ac_80MHz_Chain0_5530MHz



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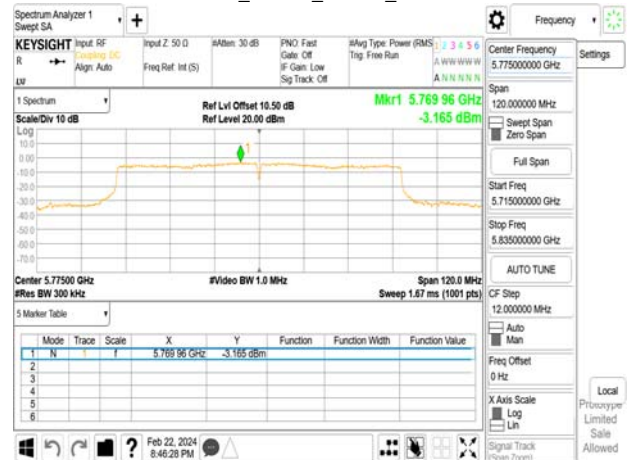
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802.11ac_80MHz_Chain0_5610MHz



802.11ac_80MHz_Chain0_5775MHz



802.11ac_80MHz_Chain0_5690MHz_UNII 2C



802.11ac_80MHz_Chain0_5690MHz_UNII 3



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

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

11.1.1 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

11.1.2 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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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

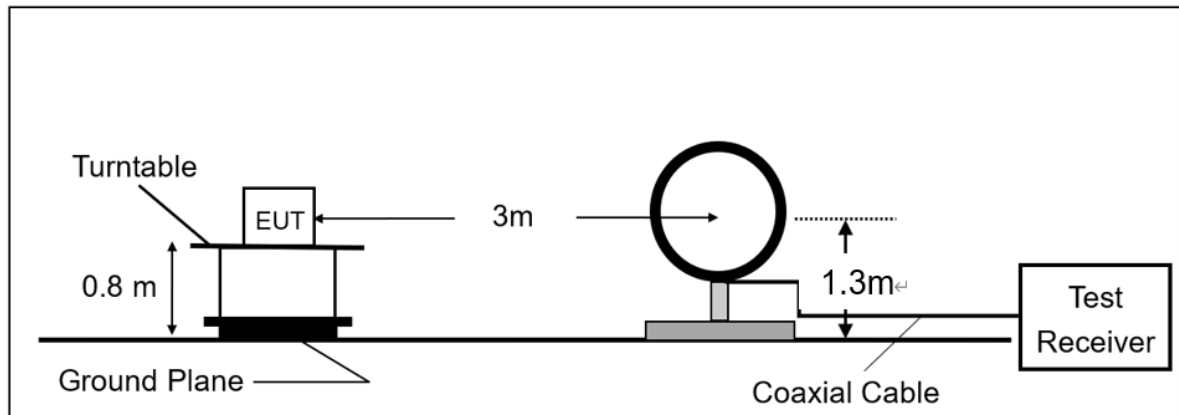
f (886-2) 2298-0488

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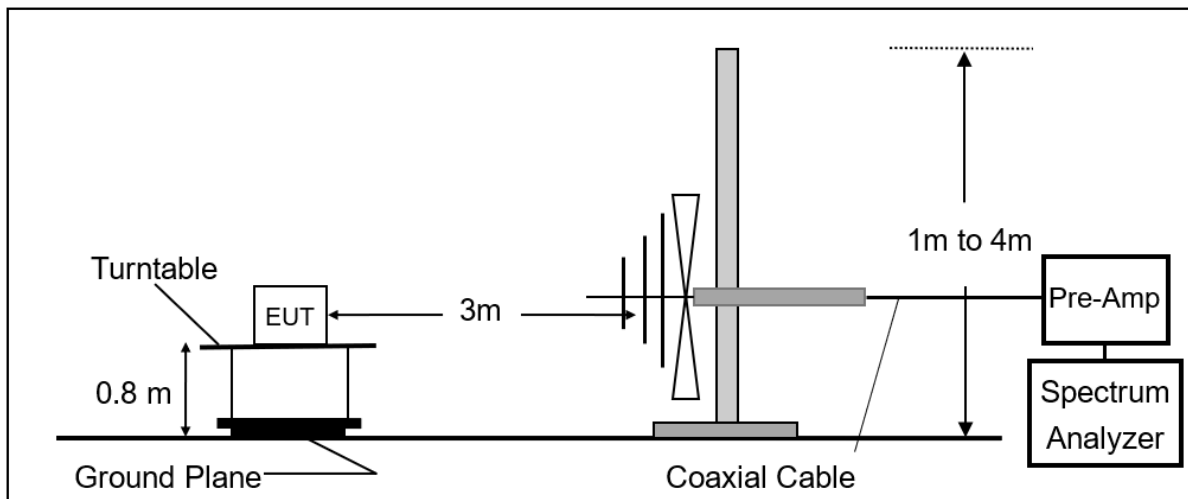
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11.2 Test Setup

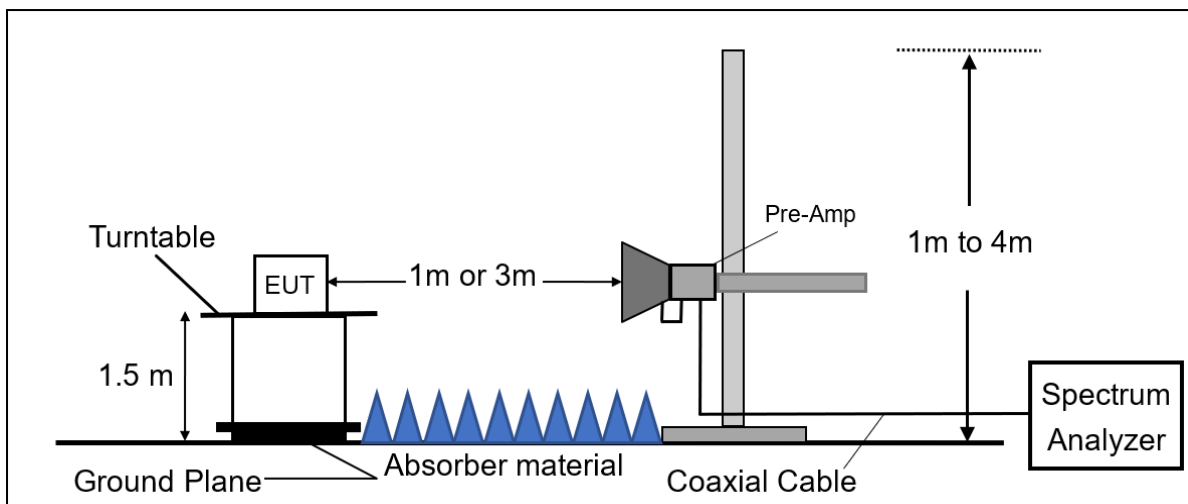
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 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 $\geq 1/T$ (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.

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11.4 Field Strength Calculation

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

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

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

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) was not reported.

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11.6 Radiated Spurious Emission Measurement Result

11.6.1 Spurious Emission

Report Number :TERF2402000303E2

Test Site :SAC 3

Operation Mode :802.11a

Test Date :2024-02-23

Test Frequency :5220 MHz

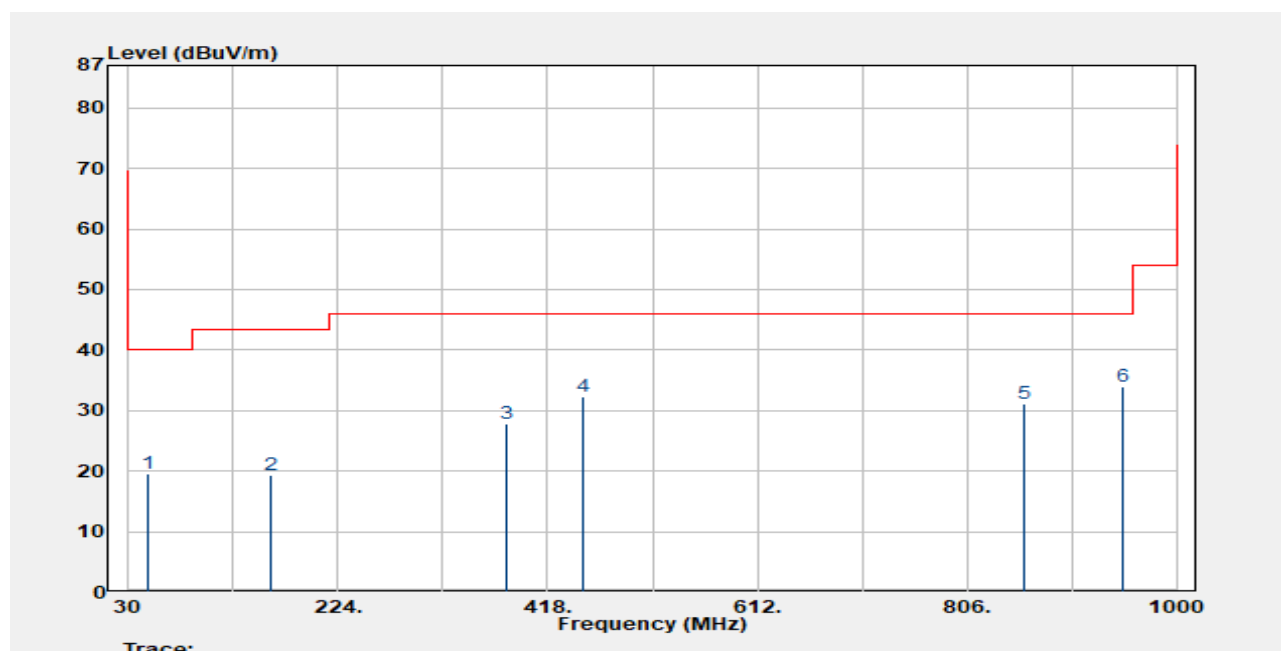
Temp./Humi. :22.3°C/63%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
48.430	Peak	28.47	-8.84	19.64	40.00	-20.36
161.920	Peak	27.66	-8.40	19.26	43.50	-24.24
380.170	Peak	33.63	-5.79	27.84	46.00	-18.16
450.010	Peak	36.31	-4.08	32.23	46.00	-13.77
858.380	Peak	28.29	2.94	31.23	46.00	-14.77
949.560	Peak	29.42	4.44	33.86	46.00	-12.14

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5220 MHz

Test Mode :Tx

EUT Pol :H Plane

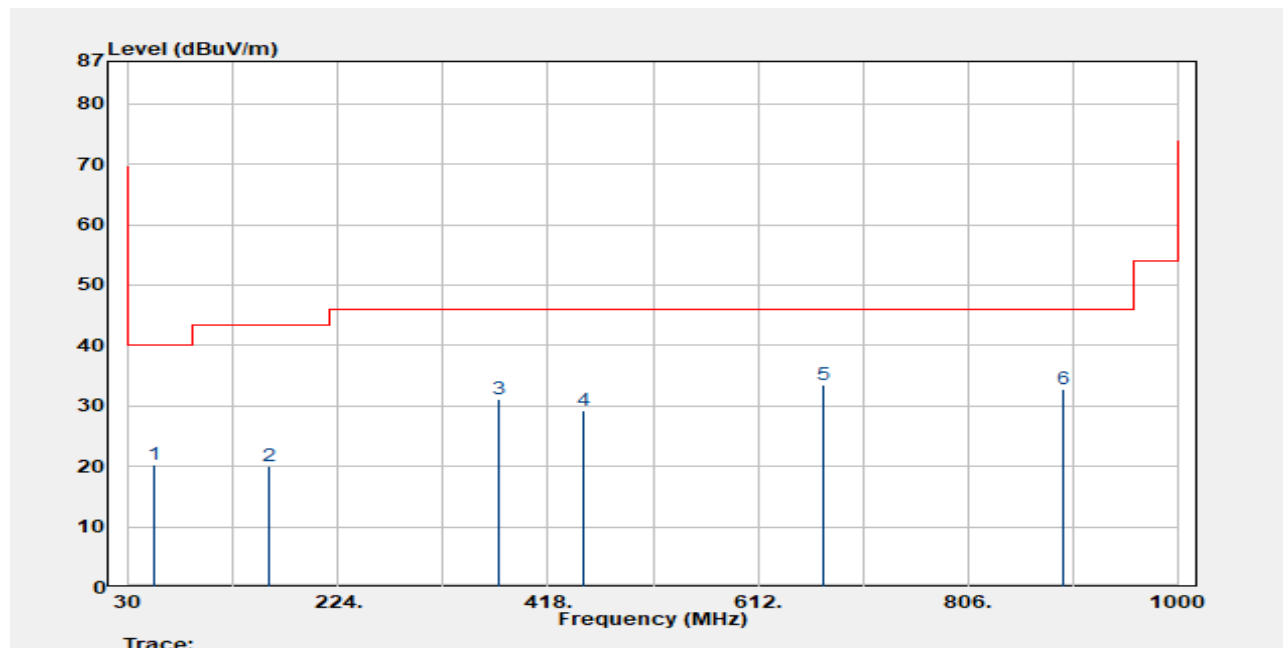
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.250	Peak	29.29	-8.96	20.33	40.00	-19.67
159.010	Peak	28.39	-8.26	20.13	43.50	-23.37
372.410	Peak	37.03	-5.92	31.11	46.00	-14.89
450.010	Peak	33.43	-4.08	29.35	46.00	-16.65
672.140	Peak	33.91	-0.36	33.55	46.00	-12.45
894.270	Peak	29.58	3.23	32.81	46.00	-13.19

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5300 MHz

Test Mode :Tx

EUT Pol :H Plane

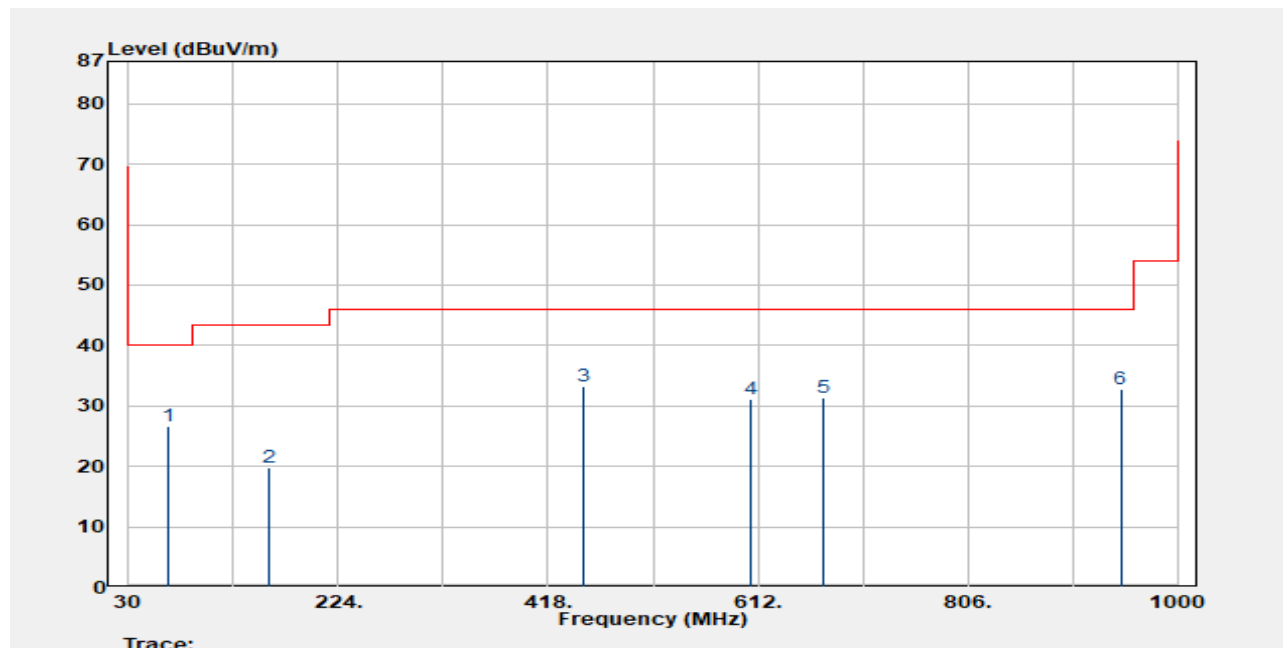
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
66.860	Peak	37.42	-10.79	26.63	40.00	-13.37
159.010	Peak	28.01	-8.26	19.75	43.50	-23.75
450.010	Peak	37.43	-4.08	33.35	46.00	-12.65
605.210	Peak	32.17	-1.10	31.07	46.00	-14.93
672.140	Peak	31.75	-0.36	31.39	46.00	-14.61
947.620	Peak	28.49	4.39	32.89	46.00	-13.11

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5300 MHz

Test Mode :Tx

EUT Pol :H Plane

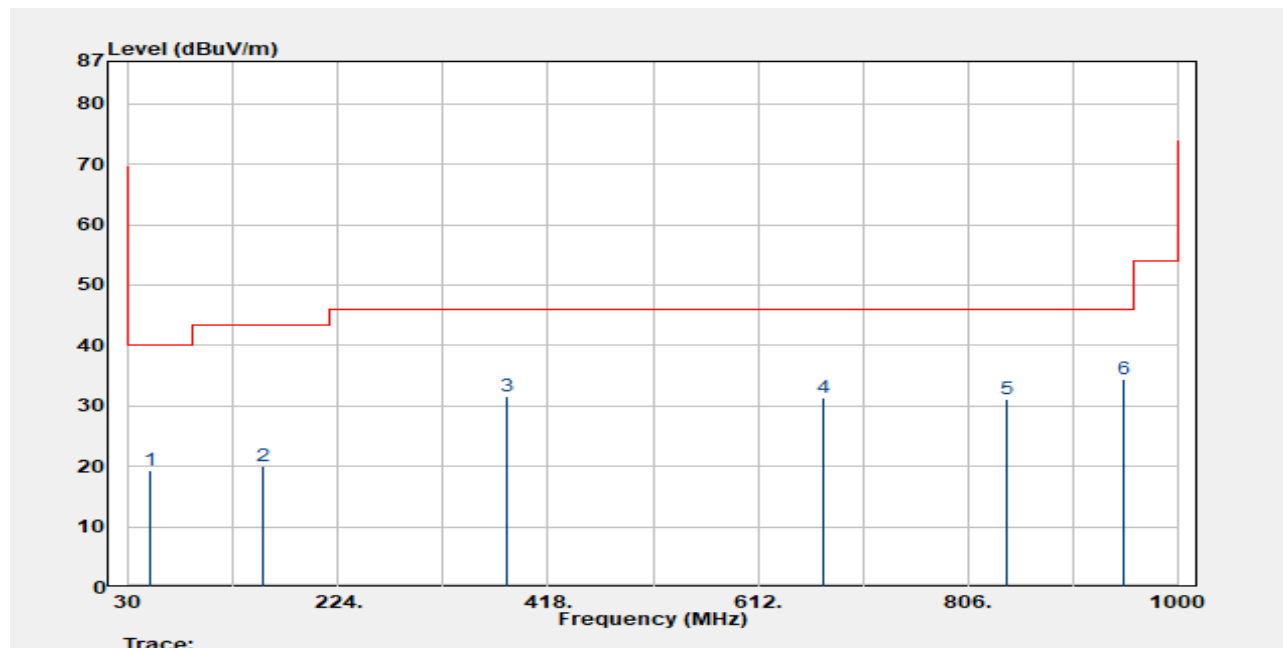
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
50.370	Peak	27.99	-8.71	19.28	40.00	-20.72
154.160	Peak	28.20	-8.26	19.94	43.50	-23.56
380.170	Peak	37.27	-5.79	31.48	46.00	-14.52
672.140	Peak	31.75	-0.36	31.39	46.00	-14.61
842.860	Peak	28.38	2.68	31.06	46.00	-14.94
949.560	Peak	29.88	4.44	34.32	46.00	-11.68

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5580 MHz

Test Mode :Tx

EUT Pol :H Plane

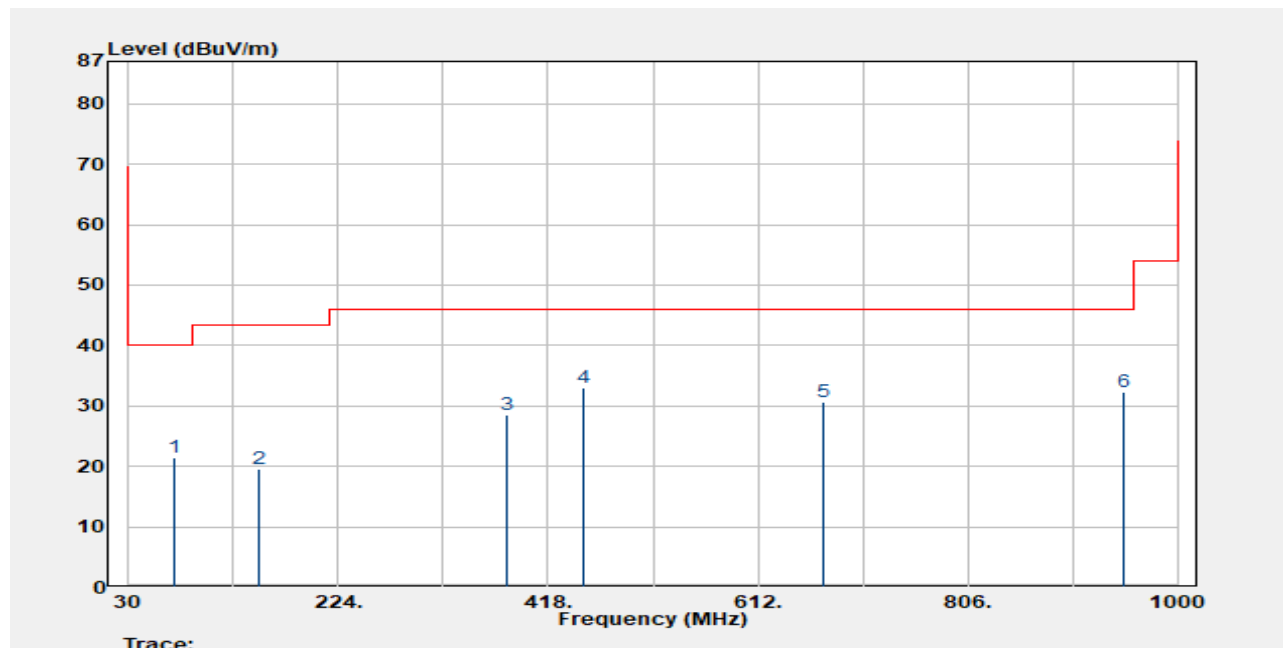
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
72.680	Peak	33.32	-11.90	21.42	40.00	-18.58
150.280	Peak	27.87	-8.26	19.61	43.50	-23.89
380.170	Peak	34.23	-5.79	28.45	46.00	-17.55
450.010	Peak	37.10	-4.08	33.02	46.00	-12.98
672.140	Peak	31.02	-0.36	30.66	46.00	-15.34
949.560	Peak	27.87	4.44	32.31	46.00	-13.69

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5580 MHz

Test Mode :Tx

EUT Pol :H Plane

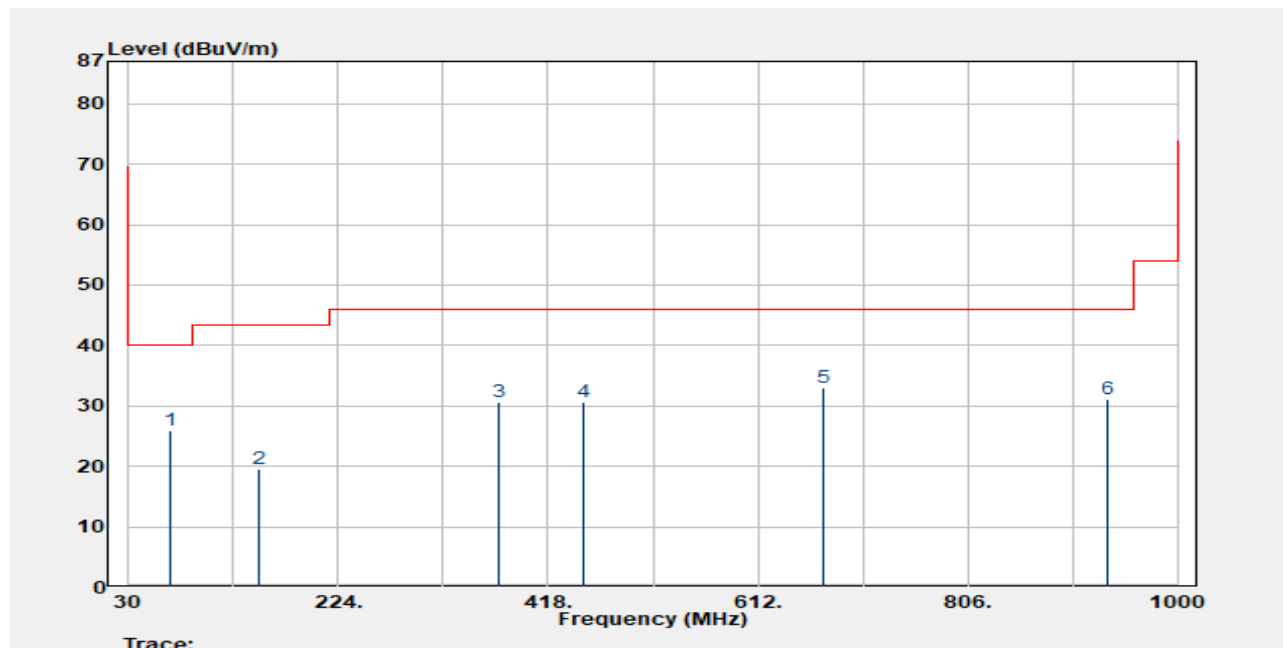
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
67.830	Peak	36.95	-10.99	25.97	40.00	-14.03
151.250	Peak	27.91	-8.26	19.65	43.50	-23.85
372.410	Peak	36.46	-5.92	30.54	46.00	-15.46
450.010	Peak	34.85	-4.08	30.77	46.00	-15.23
672.140	Peak	33.36	-0.36	33.01	46.00	-12.99
935.980	Peak	27.03	4.12	31.16	46.00	-14.84

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5785 MHz

Test Mode :Tx

EUT Pol :H Plane

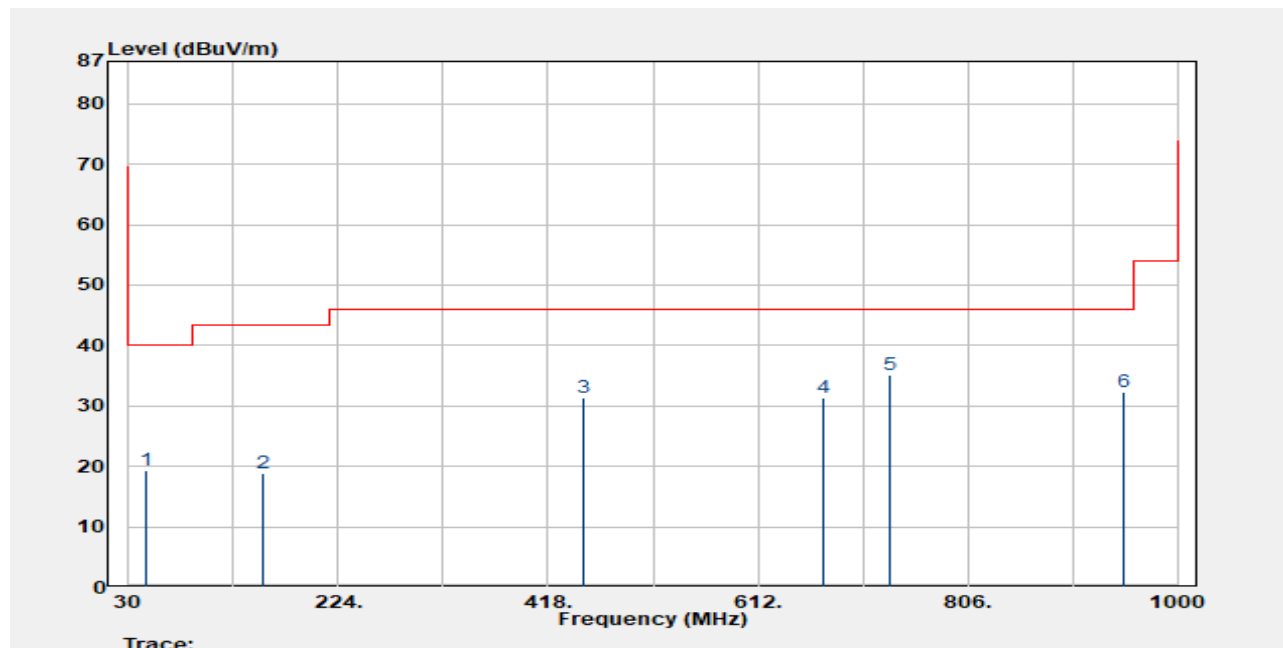
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	28.32	-9.02	19.30	40.00	-20.70
154.160	Peak	27.18	-8.26	18.92	43.50	-24.58
450.010	Peak	35.42	-4.08	31.34	46.00	-14.66
672.140	Peak	31.68	-0.36	31.32	46.00	-14.68
734.220	Peak	34.24	0.82	35.06	46.00	-10.94
950.530	Peak	27.96	4.45	32.41	46.00	-13.59

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5785 MHz

Test Mode :Tx

EUT Pol :H Plane

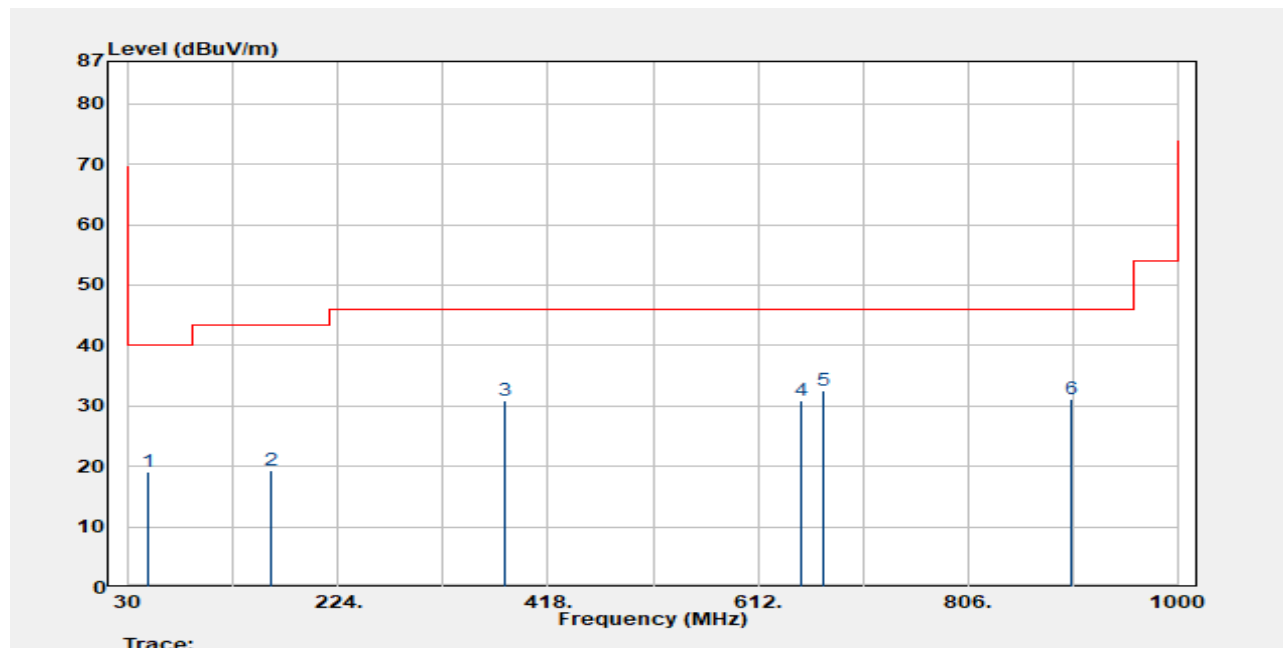
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.460	Peak	28.02	-8.93	19.09	40.00	-20.91
160.950	Peak	27.63	-8.33	19.30	43.50	-24.20
377.260	Peak	36.61	-5.84	30.78	46.00	-15.22
652.740	Peak	31.64	-0.76	30.87	46.00	-15.13
672.140	Peak	32.90	-0.36	32.54	46.00	-13.46
902.030	Peak	27.91	3.30	31.22	46.00	-14.78

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5180 MHz

Test Mode :Tx

EUT Pol :H Plane

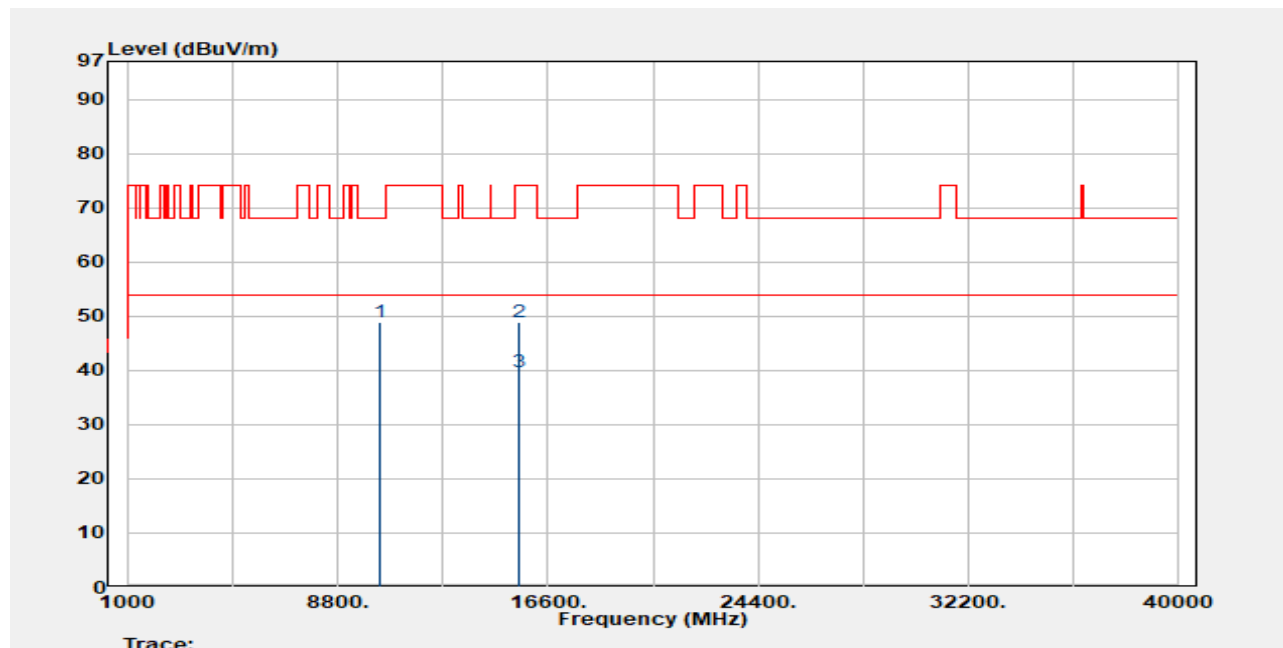
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.000	Peak	40.29	8.47	48.77	68.20	-19.43
15540.000	Peak	42.51	6.28	48.79	74.00	-25.21
15540.000	Average	33.44	6.28	39.72	54.00	-14.28

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5180 MHz

Test Mode :Tx

EUT Pol :H Plane

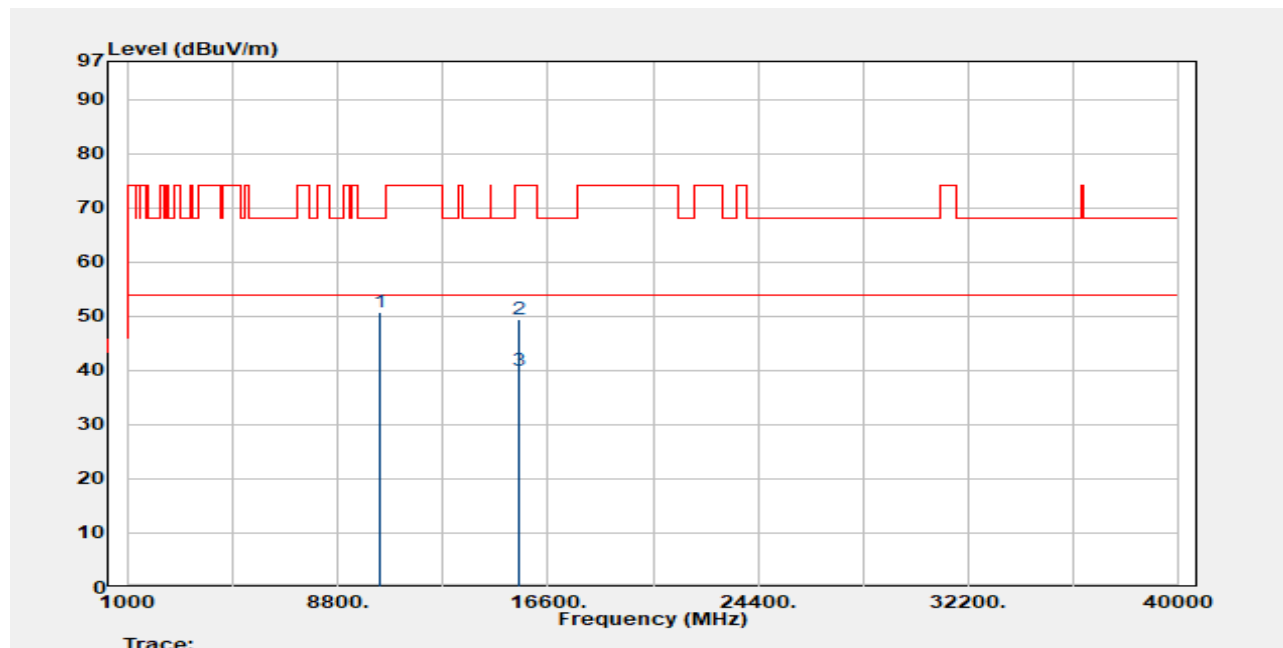
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.000	Peak	42.27	8.47	50.75	68.20	-17.45
15540.000	Peak	43.07	6.28	49.35	74.00	-24.65
15540.000	Average	33.62	6.28	39.90	54.00	-14.10

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5220 MHz

Test Mode :Tx

EUT Pol :H Plane

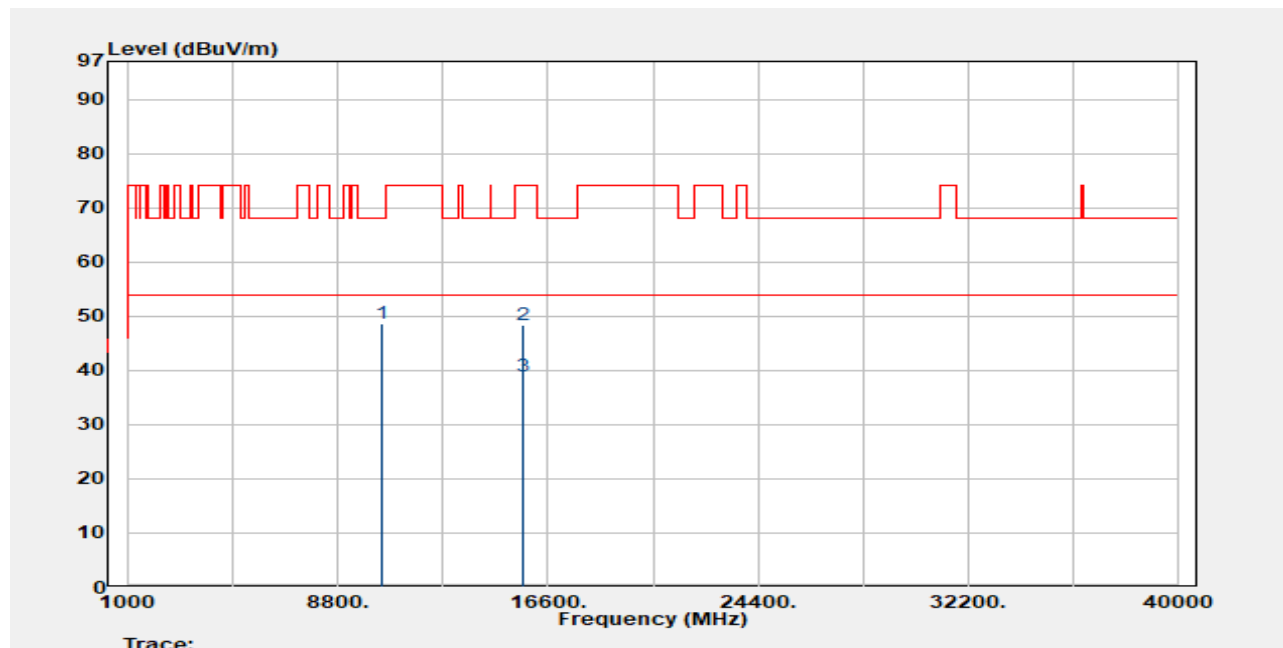
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
10440.000	Peak	40.13	8.39	48.51	68.20	-19.69
15660.000	Peak	42.90	5.48	48.38	74.00	-25.62
15660.000	Average	33.41	5.48	38.89	54.00	-15.11

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5220 MHz

Test Mode :Tx

EUT Pol :H Plane

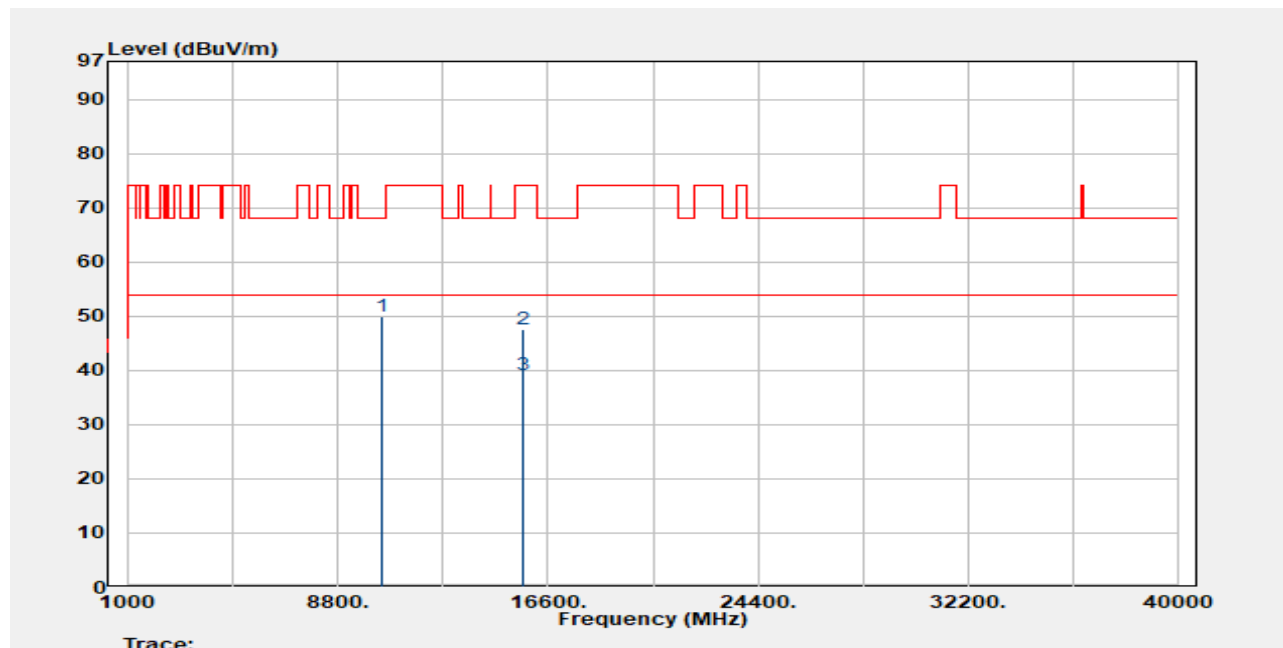
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
10440.000	Peak	41.43	8.39	49.82	68.20	-18.38
15660.000	Peak	42.01	5.48	47.49	74.00	-26.51
15660.000	Average	33.75	5.48	39.23	54.00	-14.77

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5240 MHz

Test Mode :Tx

EUT Pol :H Plane

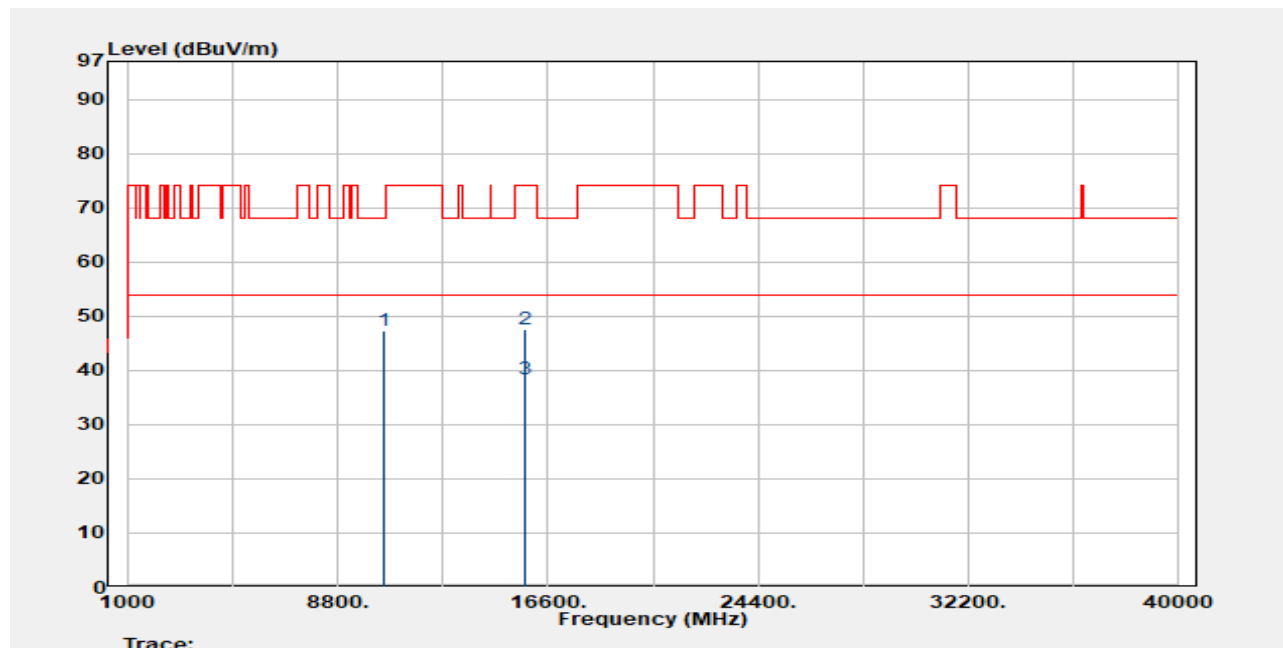
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
10480.000	Peak	39.10	8.16	47.26	68.20	-20.94
15720.000	Peak	42.19	5.37	47.57	74.00	-26.43
15720.000	Average	33.13	5.37	38.50	54.00	-15.50

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5240 MHz

Test Mode :Tx

EUT Pol :H Plane

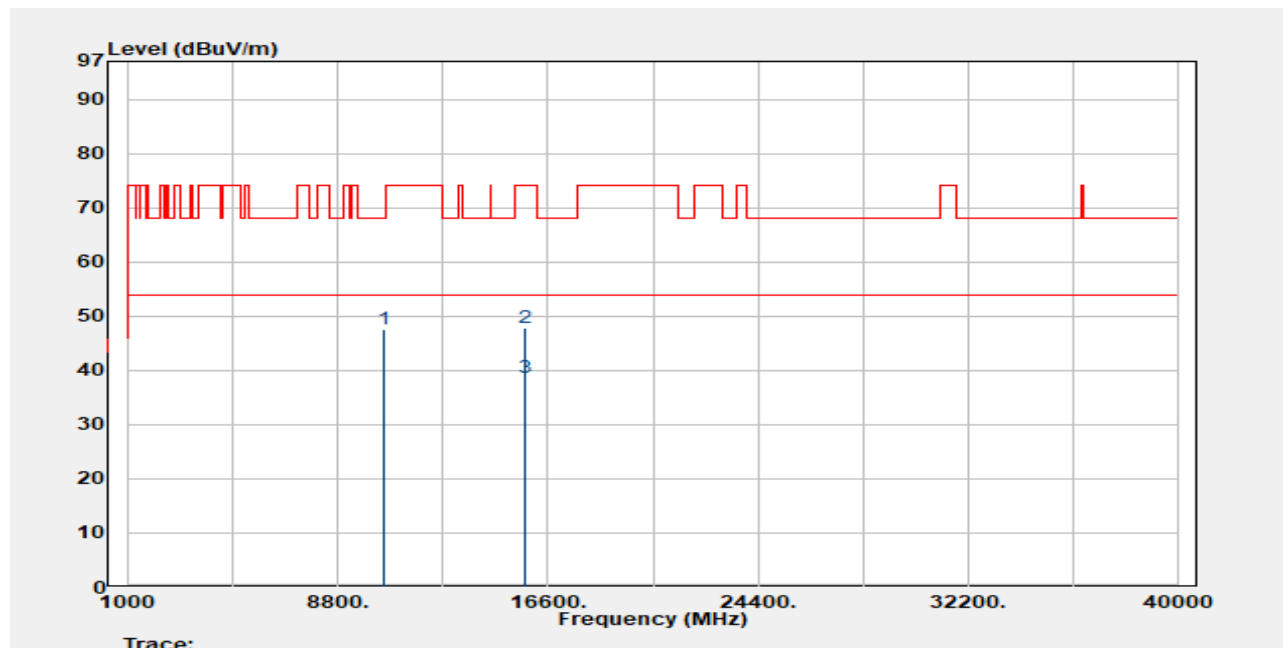
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
10480.000	Peak	39.30	8.16	47.46	68.20	-20.74
15720.000	Peak	42.57	5.37	47.94	74.00	-26.06
15720.000	Average	33.39	5.37	38.76	54.00	-15.24

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5260 MHz

Test Mode :Tx

EUT Pol :H Plane

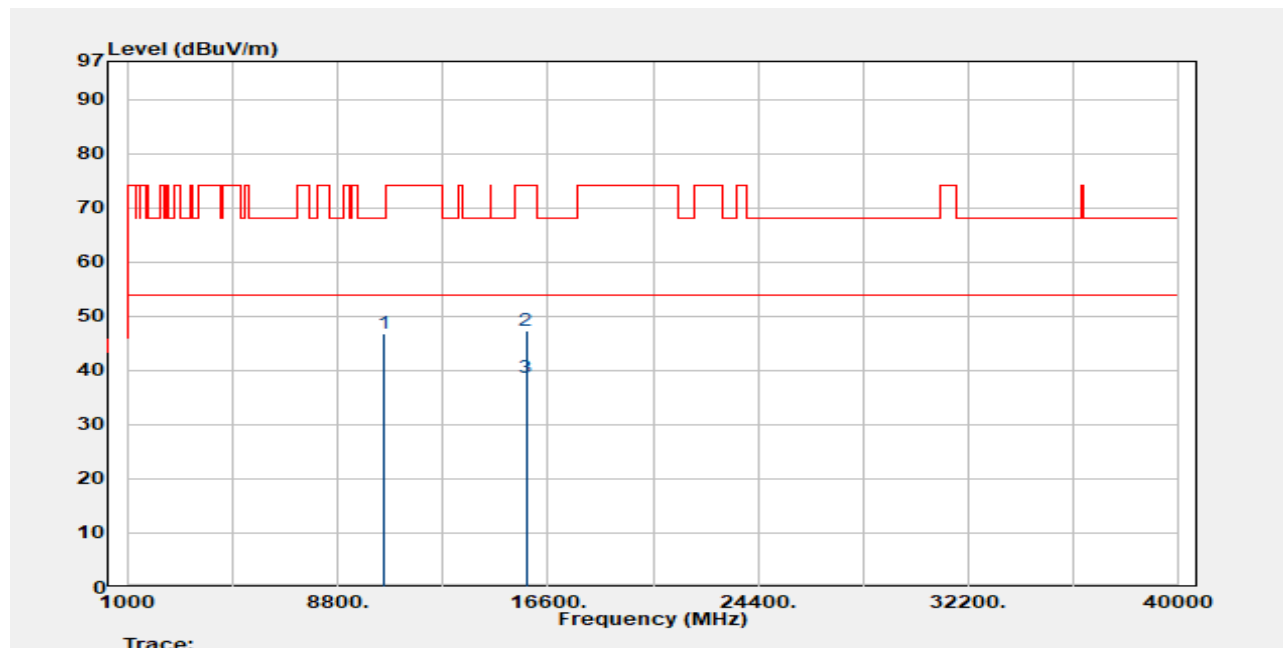
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
10520.000	Peak	38.79	8.05	46.84	68.20	-21.36
15780.000	Peak	41.90	5.46	47.36	74.00	-26.64
15780.000	Average	33.21	5.46	38.67	54.00	-15.33

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5260 MHz

Test Mode :Tx

EUT Pol :H Plane

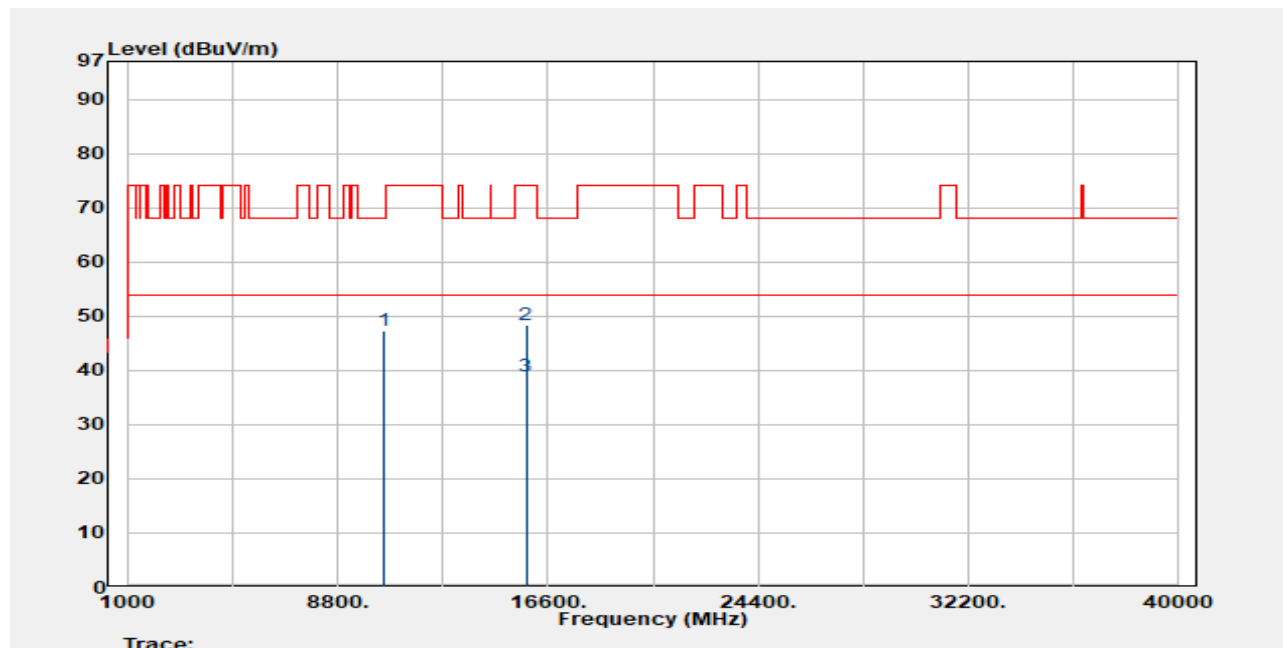
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
10520.000	Peak	39.26	8.05	47.32	68.20	-20.88
15780.000	Peak	42.86	5.46	48.32	74.00	-25.68
15780.000	Average	33.39	5.46	38.85	54.00	-15.15

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5300 MHz

Test Mode :Tx

EUT Pol :H Plane

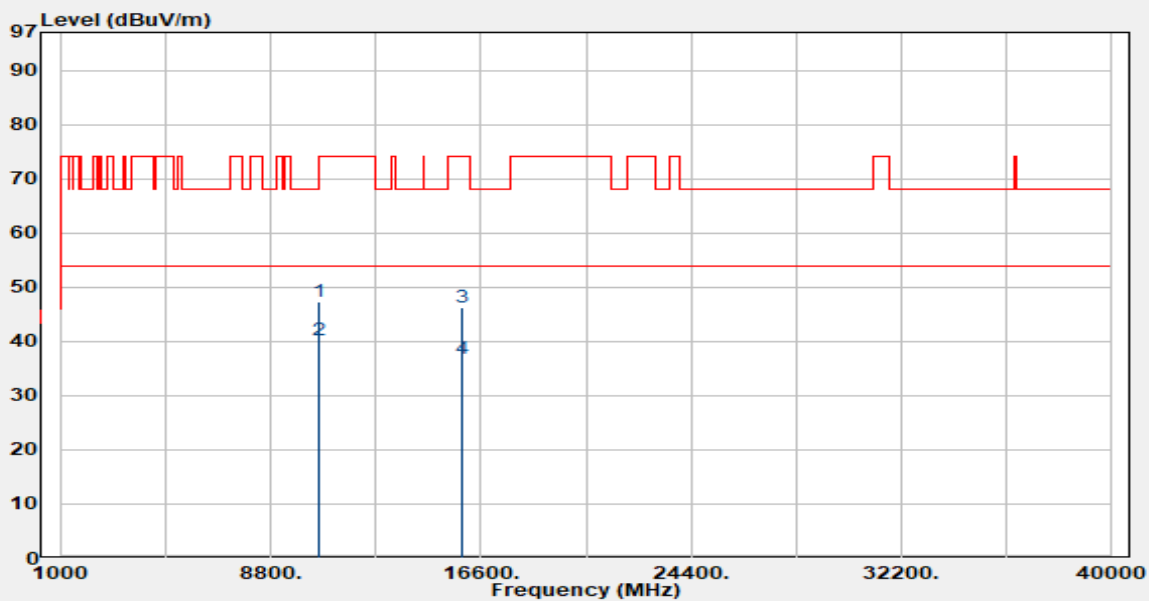
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.000	Peak	39.28	8.07	47.35	74.00	-26.65
10600.000	Average	32.14	8.07	40.21	54.00	-13.79
15900.000	Peak	42.14	4.07	46.22	74.00	-27.78
15900.000	Average	32.83	4.07	36.90	54.00	-17.10

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5300 MHz

Test Mode :Tx

EUT Pol :H Plane

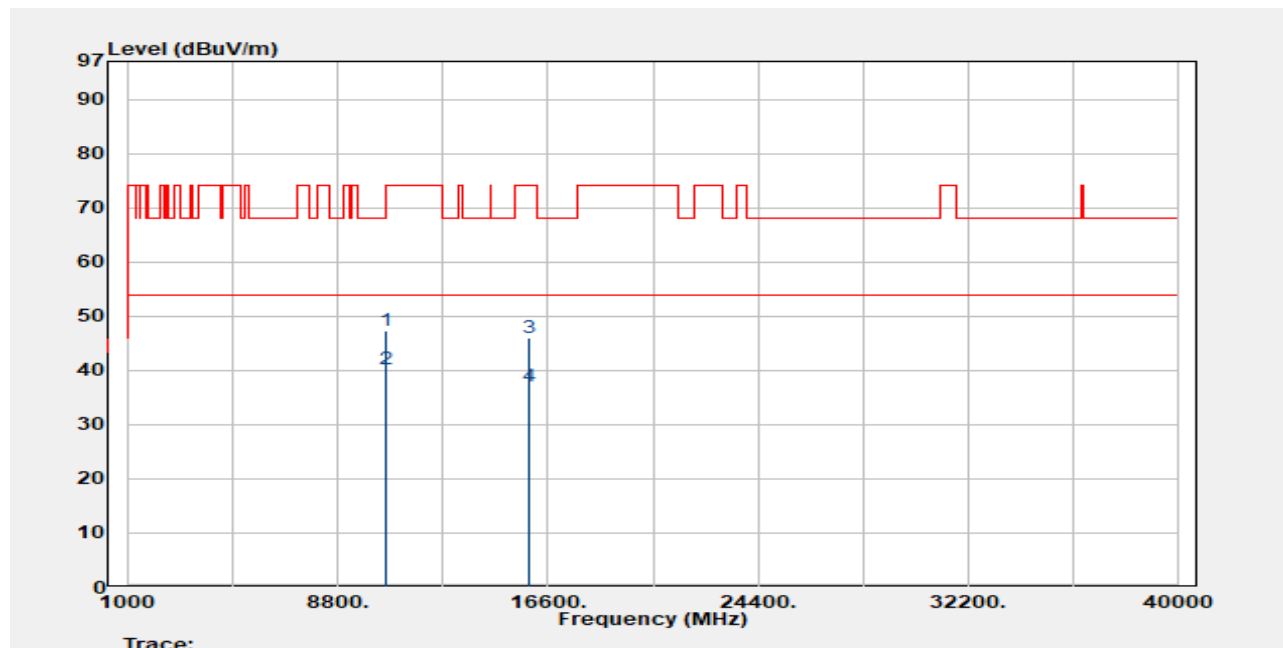
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	Peak	39.34	8.07	47.41	74.00	-26.59
10600.000	Average	32.20	8.07	40.27	54.00	-13.73
15900.000	Peak	41.87	4.07	45.94	74.00	-28.06
15900.000	Average	32.96	4.07	37.03	54.00	-16.97

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5320 MHz

Test Mode :Tx

EUT Pol :H Plane

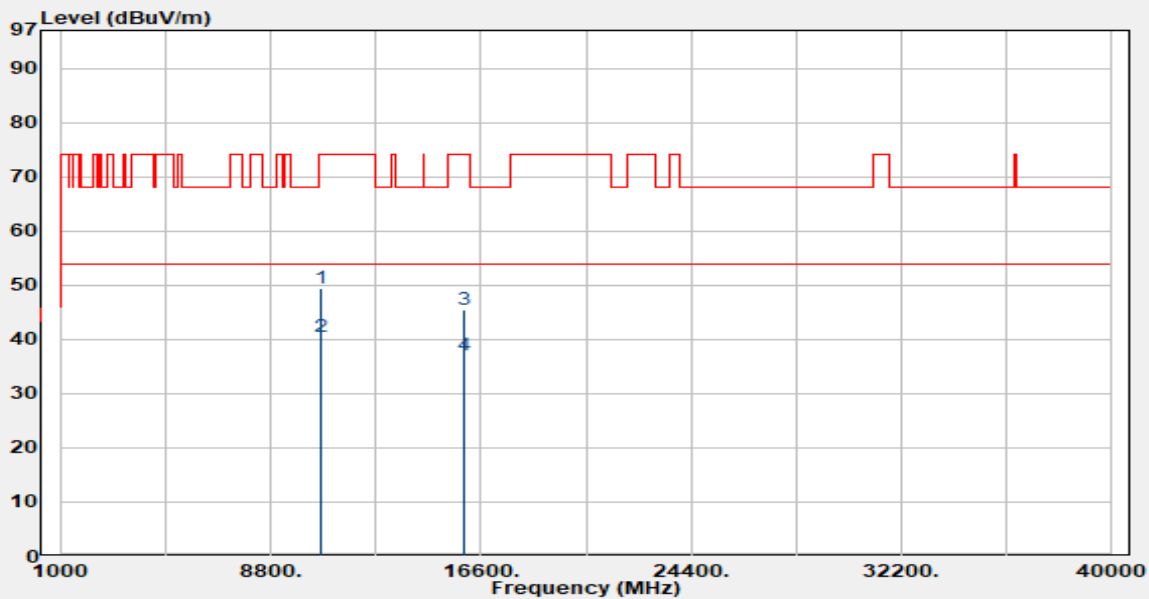
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.000	Peak	41.37	8.07	49.44	74.00	-24.56
10640.000	Average	32.36	8.07	40.43	54.00	-13.57
15960.000	Peak	41.40	4.19	45.59	74.00	-28.41
15960.000	Average	32.84	4.19	37.03	54.00	-16.97

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5320 MHz

Test Mode :Tx

EUT Pol :H Plane

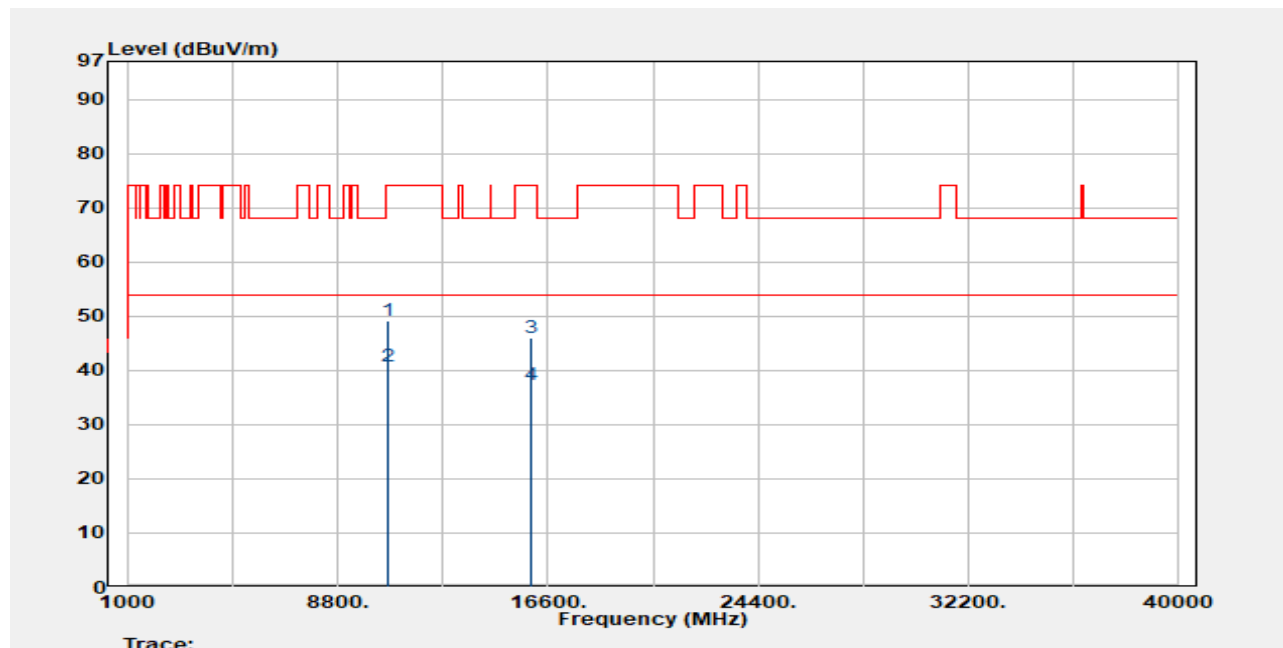
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.000	Peak	41.04	8.07	49.11	74.00	-24.89
10640.000	Average	32.58	8.07	40.65	54.00	-13.35
15960.000	Peak	41.76	4.19	45.95	74.00	-28.05
15960.000	Average	33.18	4.19	37.37	54.00	-16.63

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5500 MHz

Test Mode :Tx

EUT Pol :H Plane

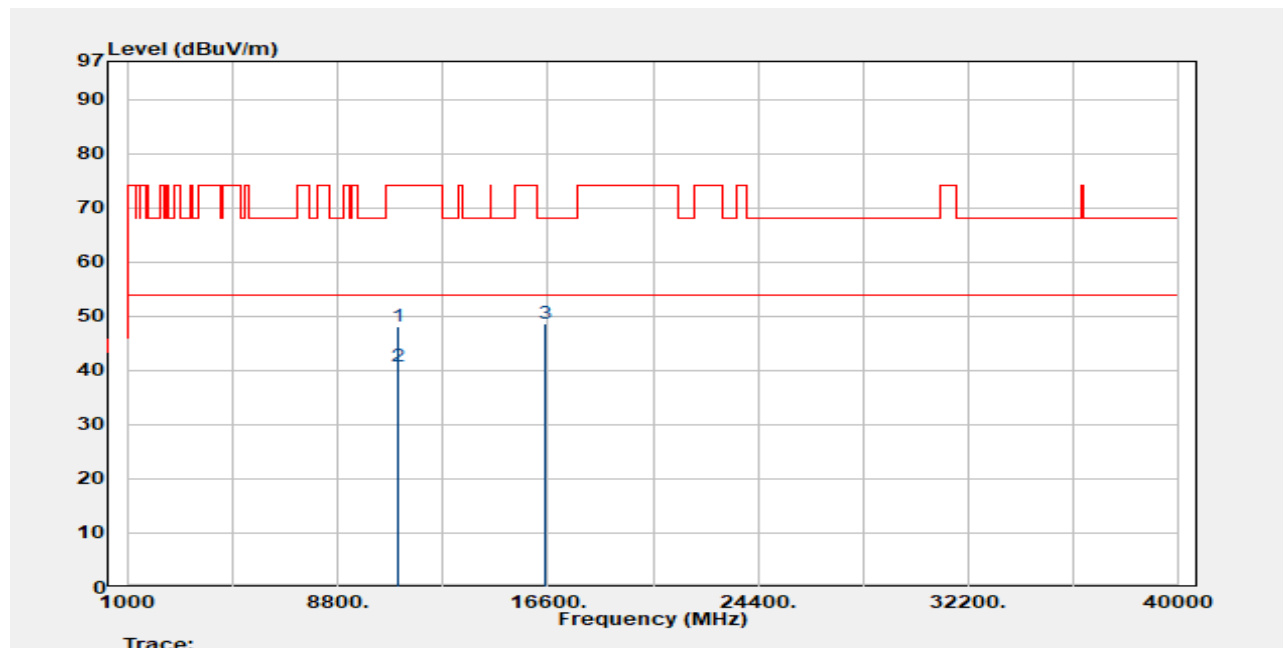
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
11000.000	Peak	39.72	8.34	48.06	74.00	-25.94
11000.000	Average	32.33	8.34	40.67	54.00	-13.33
16500.000	Peak	41.64	7.11	48.75	68.20	-19.45

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5500 MHz

Test Mode :Tx

EUT Pol :H Plane

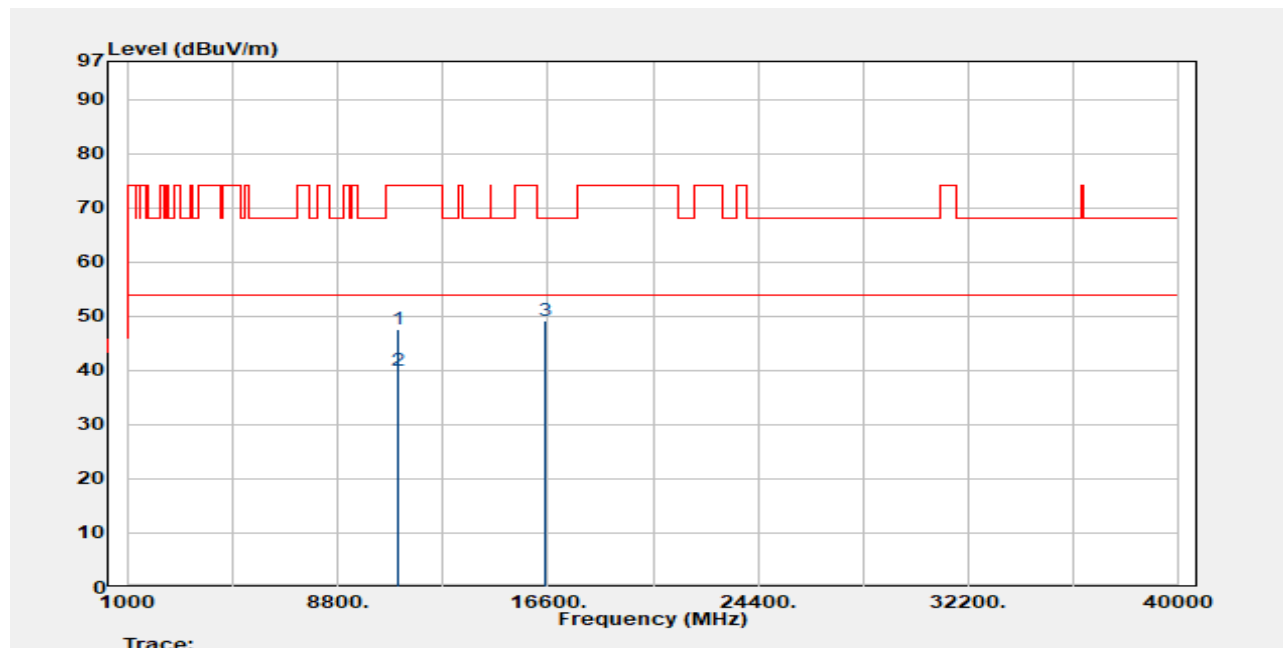
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.000	Peak	39.29	8.34	47.63	74.00	-26.37
11000.000	Average	31.63	8.34	39.97	54.00	-14.03
16500.000	Peak	41.95	7.11	49.06	68.20	-19.14

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5580 MHz

Test Mode :Tx

EUT Pol :H Plane

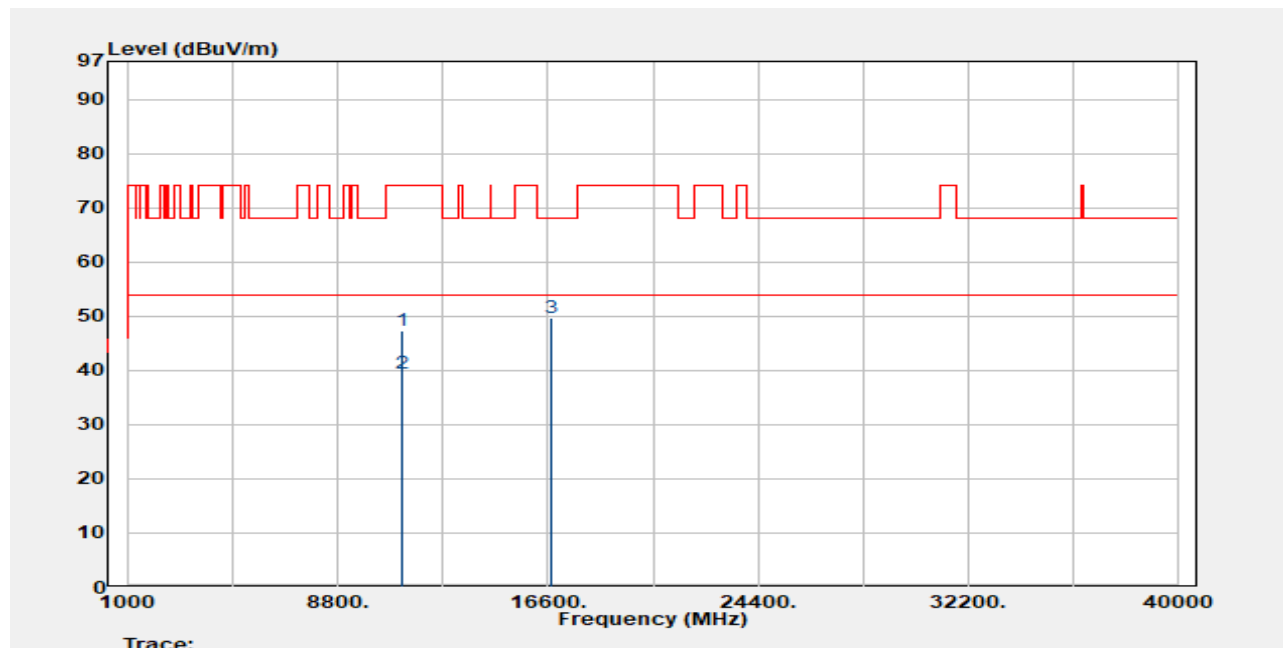
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	Peak	39.42	8.01	47.43	74.00	-26.57
11160.000	Average	31.42	8.01	39.43	54.00	-14.57
16740.000	Peak	42.34	7.23	49.57	68.20	-18.63

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Member of SGS Group

Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5580 MHz

Test Mode :Tx

EUT Pol :H Plane

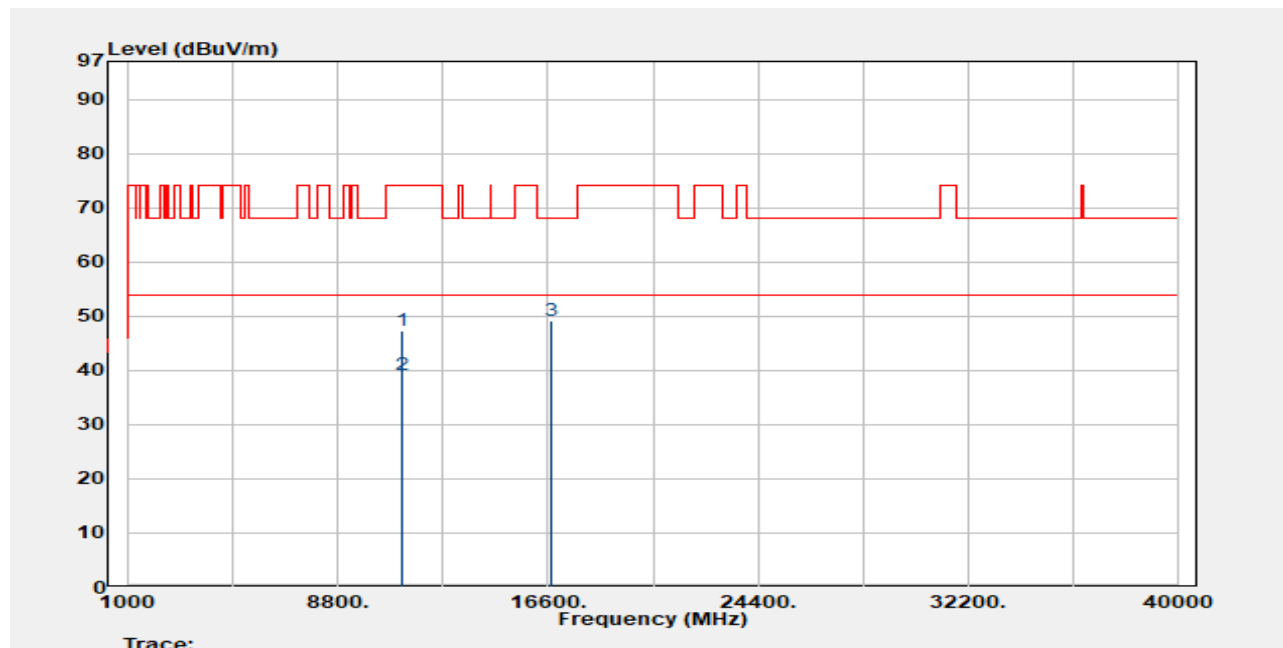
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	Peak	39.42	8.01	47.43	74.00	-26.57
11160.000	Average	31.19	8.01	39.20	54.00	-14.80
16740.000	Peak	41.81	7.23	49.04	68.20	-19.16

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5700 MHz

Test Mode :Tx

EUT Pol :H Plane

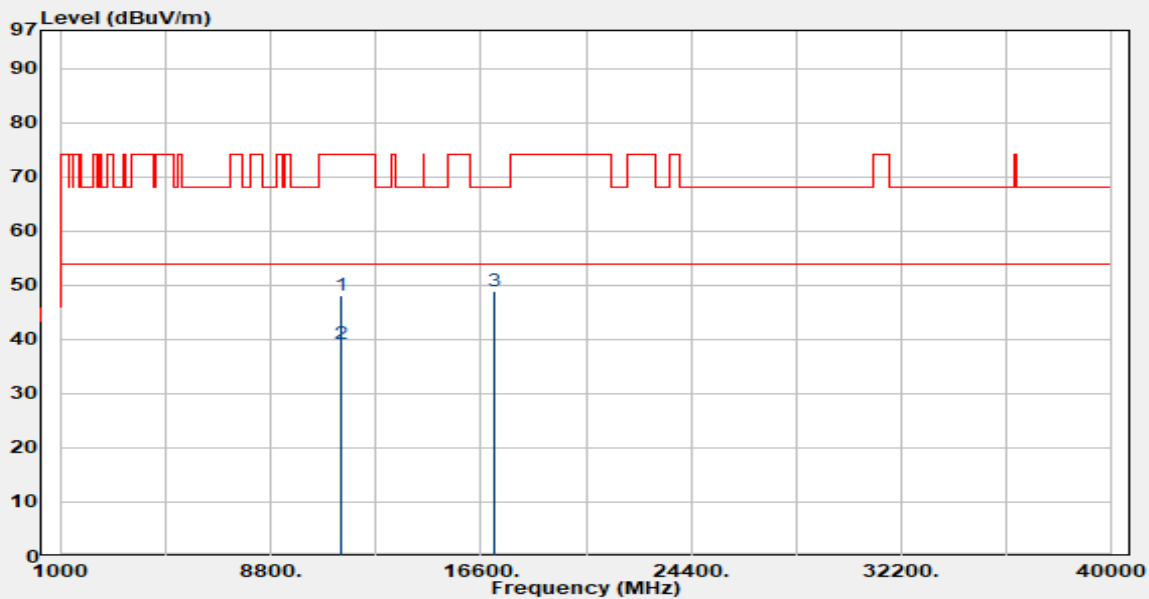
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.000	Peak	40.22	7.98	48.20	74.00	-25.80
11400.000	Average	31.22	7.98	39.20	54.00	-14.80
17100.000	Peak	42.64	6.25	48.88	68.20	-19.32

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5700 MHz

Test Mode :Tx

EUT Pol :H Plane

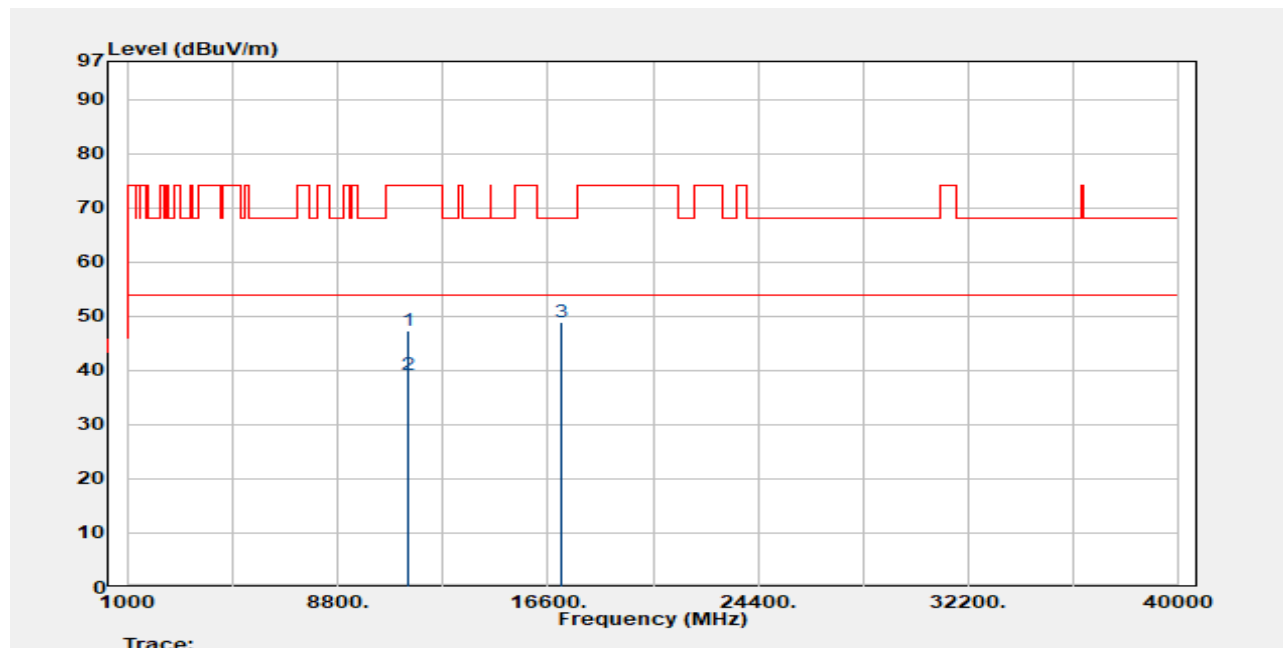
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.000	Peak	39.39	7.98	47.36	74.00	-26.64
11400.000	Average	31.08	7.98	39.06	54.00	-14.94
17100.000	Peak	42.52	6.25	48.77	68.20	-19.43

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5720 MHz

Test Mode :Tx

EUT Pol :H Plane

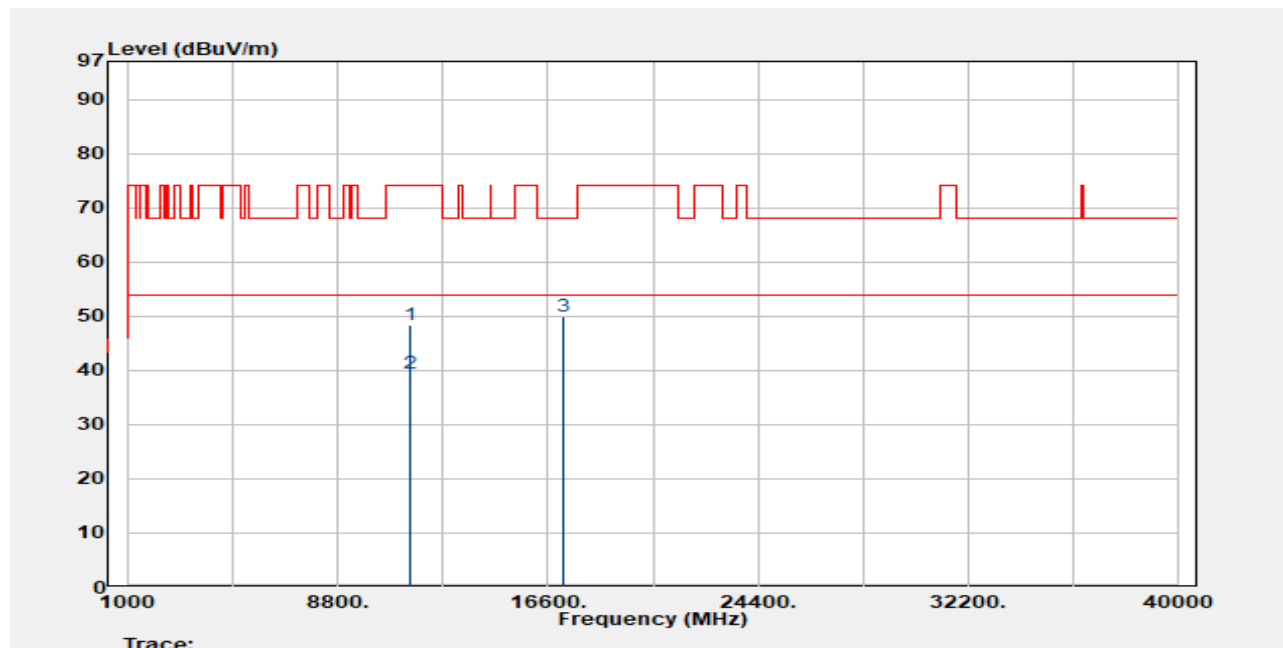
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
11440.000	Peak	40.36	8.00	48.36	74.00	-25.64
11440.000	Average	31.50	8.00	39.50	54.00	-14.50
17160.000	Peak	43.18	6.66	49.84	68.20	-18.36

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5720 MHz

Test Mode :Tx

EUT Pol :H Plane

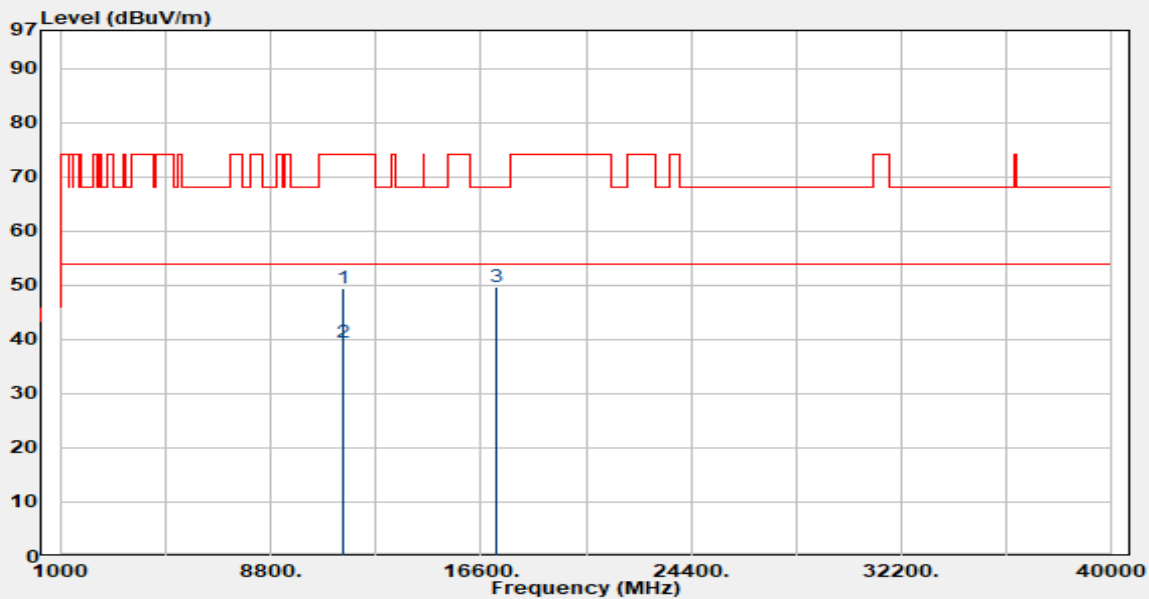
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
11440.000	Peak	41.41	8.00	49.41	74.00	-24.59
11440.000	Average	31.53	8.00	39.53	54.00	-14.47
17160.000	Peak	42.98	6.66	49.64	68.20	-18.56

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5745 MHz

Test Mode :Tx

EUT Pol :H Plane

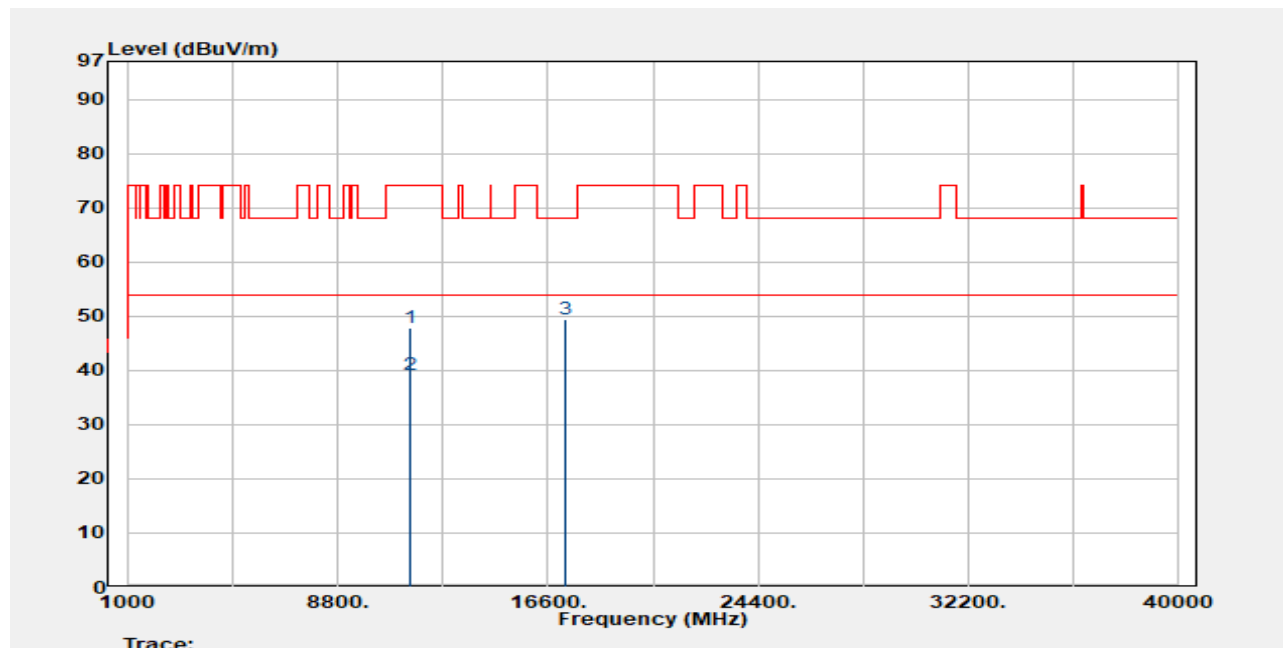
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	Peak	39.86	8.02	47.88	74.00	-26.12
11490.000	Average	31.05	8.02	39.07	54.00	-14.93
17235.000	Peak	41.99	7.30	49.29	68.20	-18.91

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5745 MHz

Test Mode :Tx

EUT Pol :H Plane

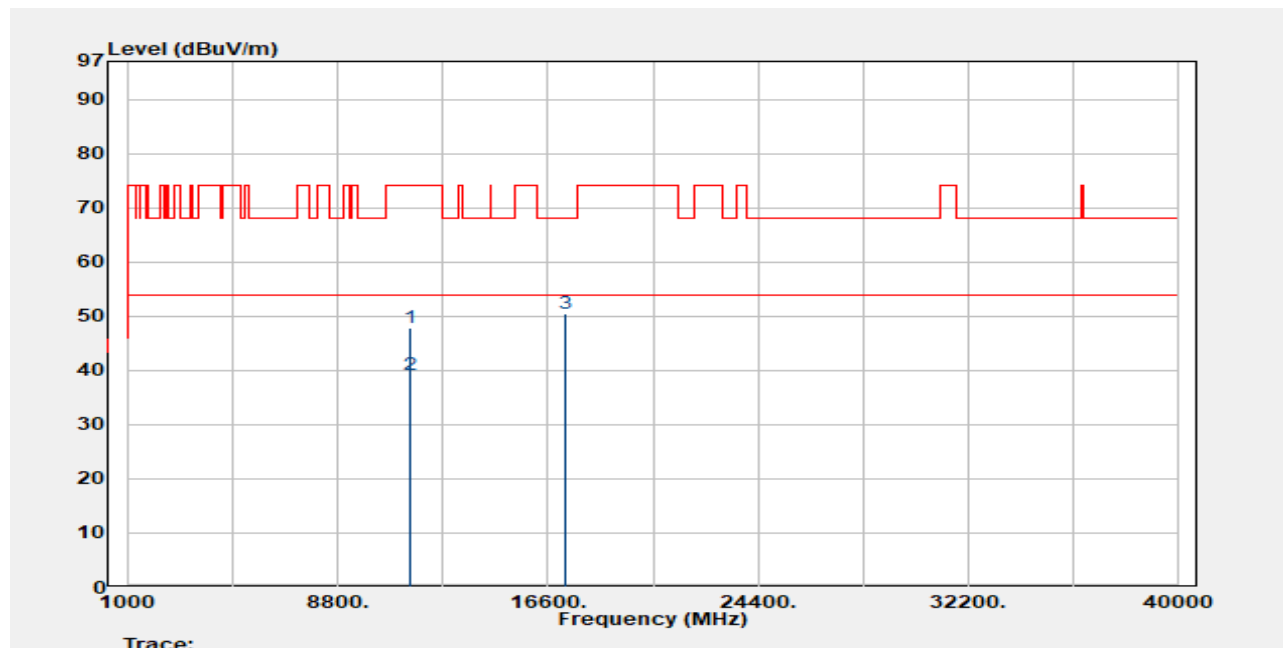
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
11490.000	Peak	39.73	8.02	47.76	74.00	-26.24
11490.000	Average	31.07	8.02	39.09	54.00	-14.91
17235.000	Peak	43.17	7.30	50.47	68.20	-17.73

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5785 MHz

Test Mode :Tx

EUT Pol :H Plane

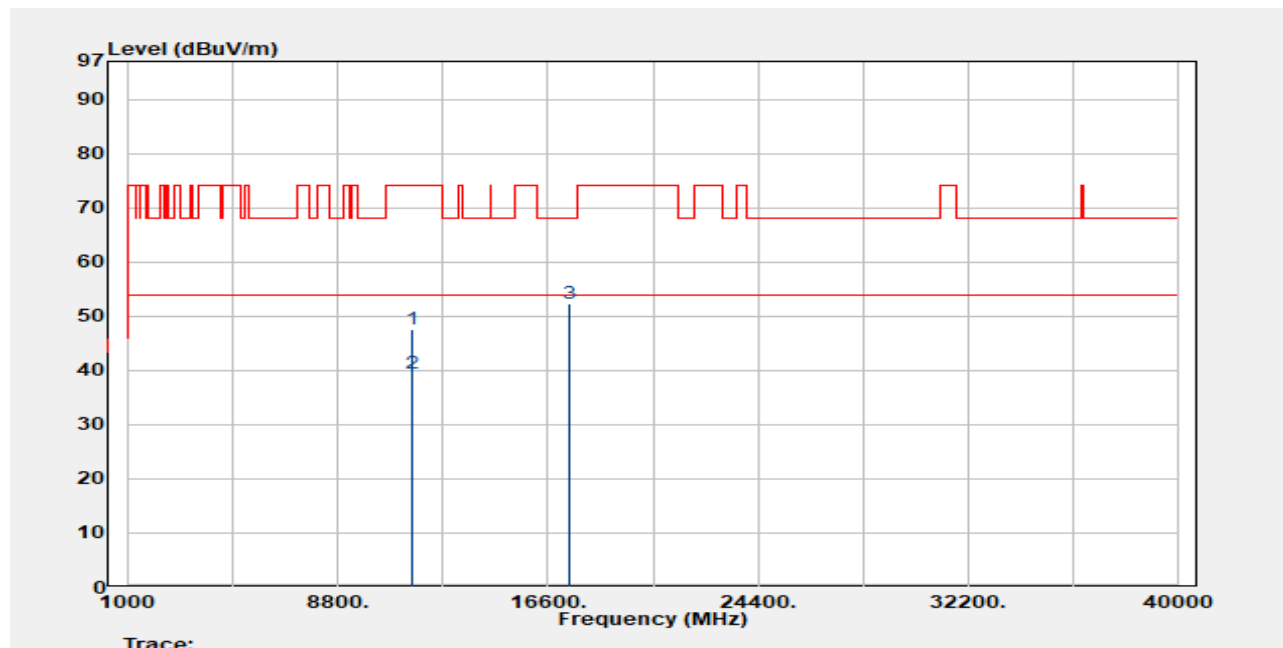
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	Peak	39.86	7.74	47.60	74.00	-26.40
11570.000	Average	31.66	7.74	39.40	54.00	-14.60
17355.000	Peak	44.09	8.20	52.30	68.20	-15.90

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5785 MHz

Test Mode :Tx

EUT Pol :H Plane

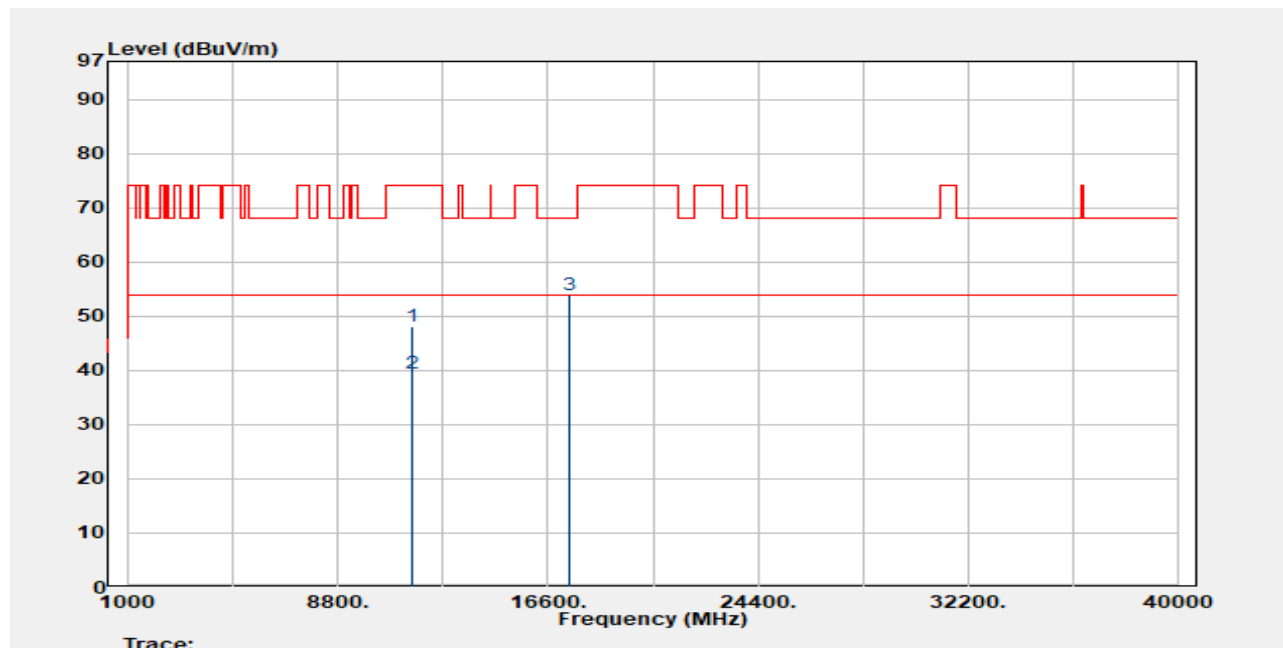
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	Peak	40.39	7.74	48.13	74.00	-25.87
11570.000	Average	31.58	7.74	39.32	54.00	-14.68
17355.000	Peak	45.59	8.20	53.79	68.20	-14.41

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5825 MHz

Test Mode :Tx

EUT Pol :H Plane

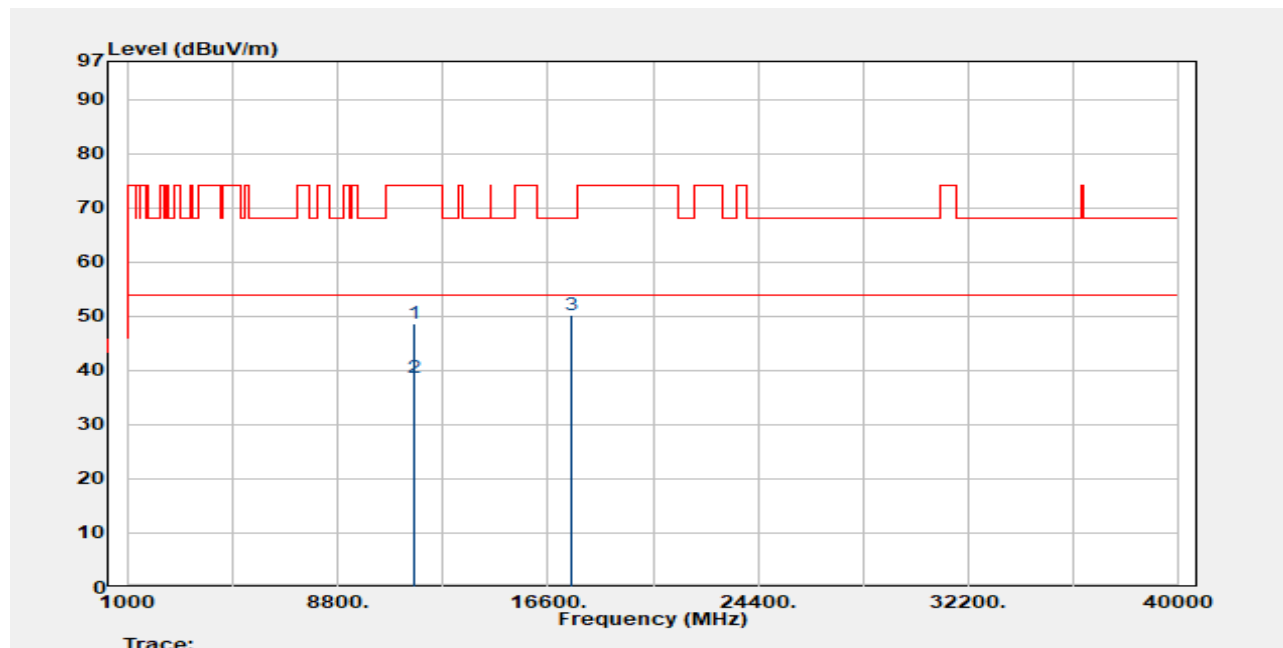
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
11650.000	Peak	41.24	7.52	48.76	74.00	-25.24
11650.000	Average	31.07	7.52	38.59	54.00	-15.41
17475.000	Peak	42.18	7.92	50.10	68.20	-18.10

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5825 MHz

Test Mode :Tx

EUT Pol :H Plane

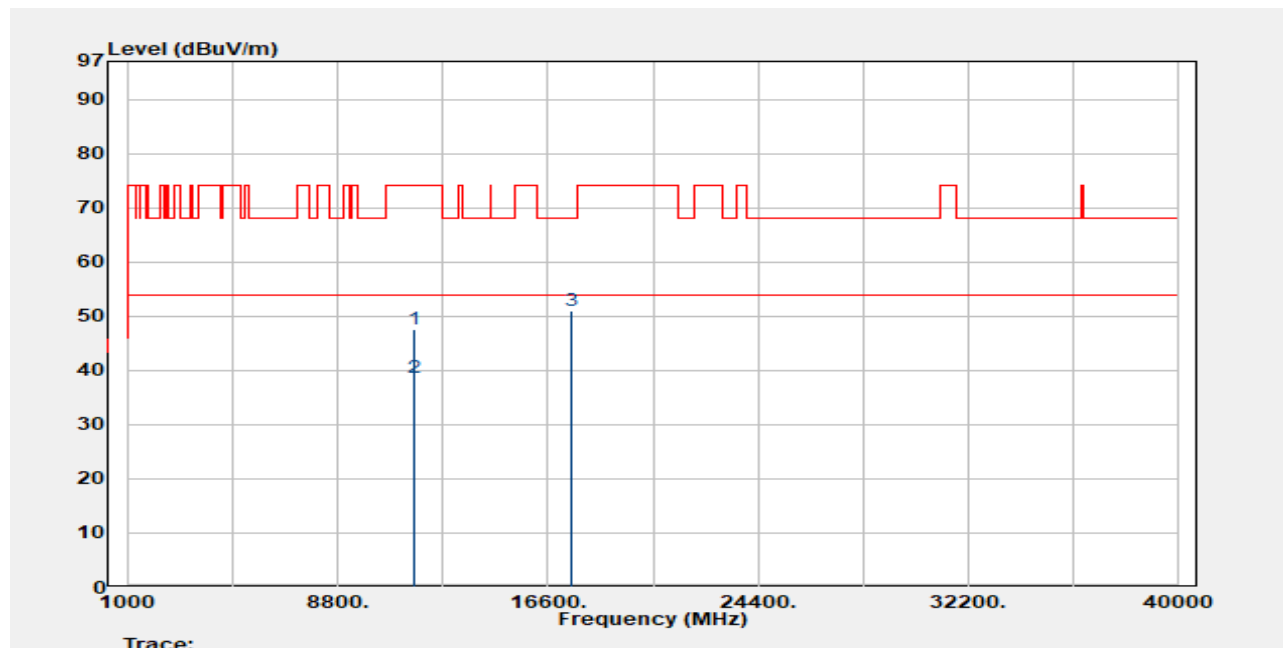
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.000	Peak	39.99	7.52	47.51	74.00	-26.49
11650.000	Average	31.02	7.52	38.54	54.00	-15.46
17475.000	Peak	43.01	7.92	50.92	68.20	-17.28

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5180 MHz

Test Mode :Tx

EUT Pol :H Plane

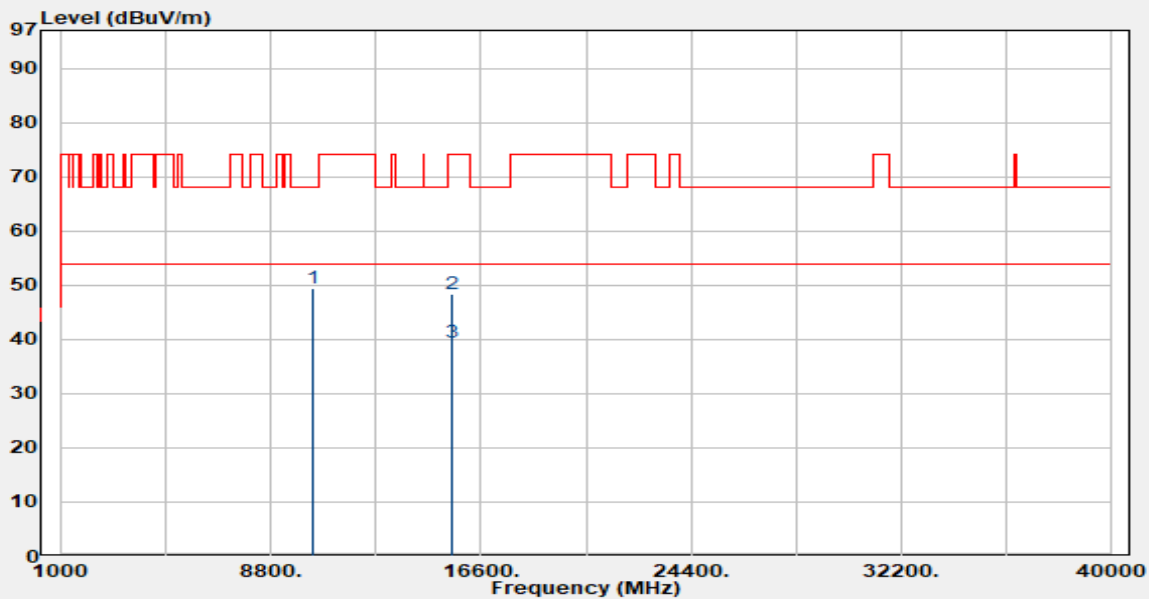
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.000	Peak	40.88	8.47	49.36	68.20	-18.84
15540.000	Peak	42.09	6.28	48.37	74.00	-25.63
15540.000	Average	33.03	6.28	39.31	54.00	-14.69

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5180 MHz

Test Mode :Tx

EUT Pol :H Plane

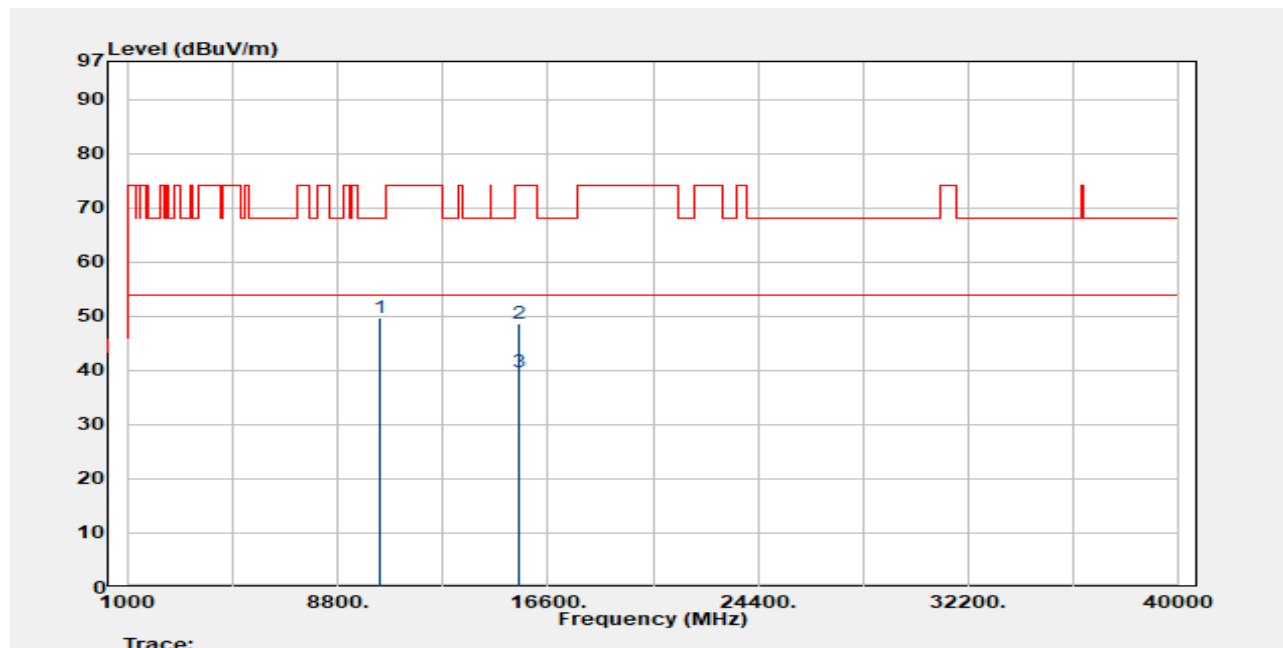
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.000	Peak	41.34	8.47	49.81	68.20	-18.39
15540.000	Peak	42.24	6.28	48.52	74.00	-25.48
15540.000	Average	33.31	6.28	39.59	54.00	-14.41

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5220 MHz

Test Mode :Tx

EUT Pol :H Plane

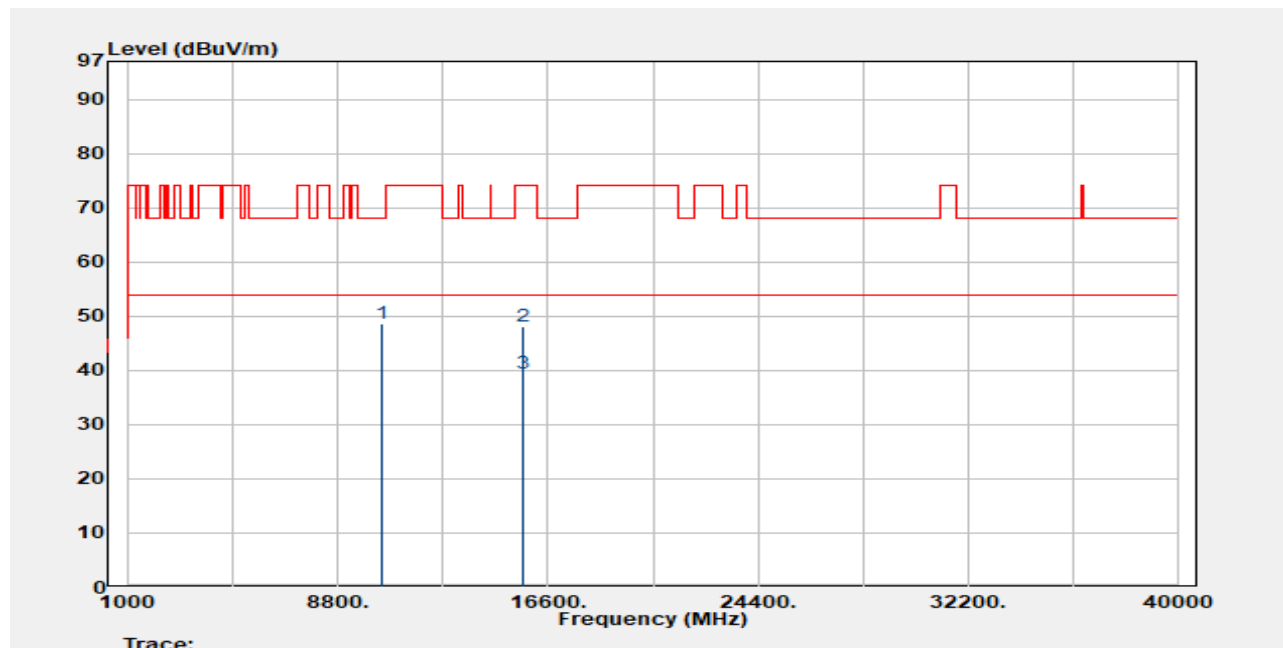
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
10440.000	Peak	40.14	8.39	48.53	68.20	-19.67
15660.000	Peak	42.57	5.48	48.05	74.00	-25.95
15660.000	Average	34.03	5.48	39.51	54.00	-14.49

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5220 MHz

Test Mode :Tx

EUT Pol :H Plane

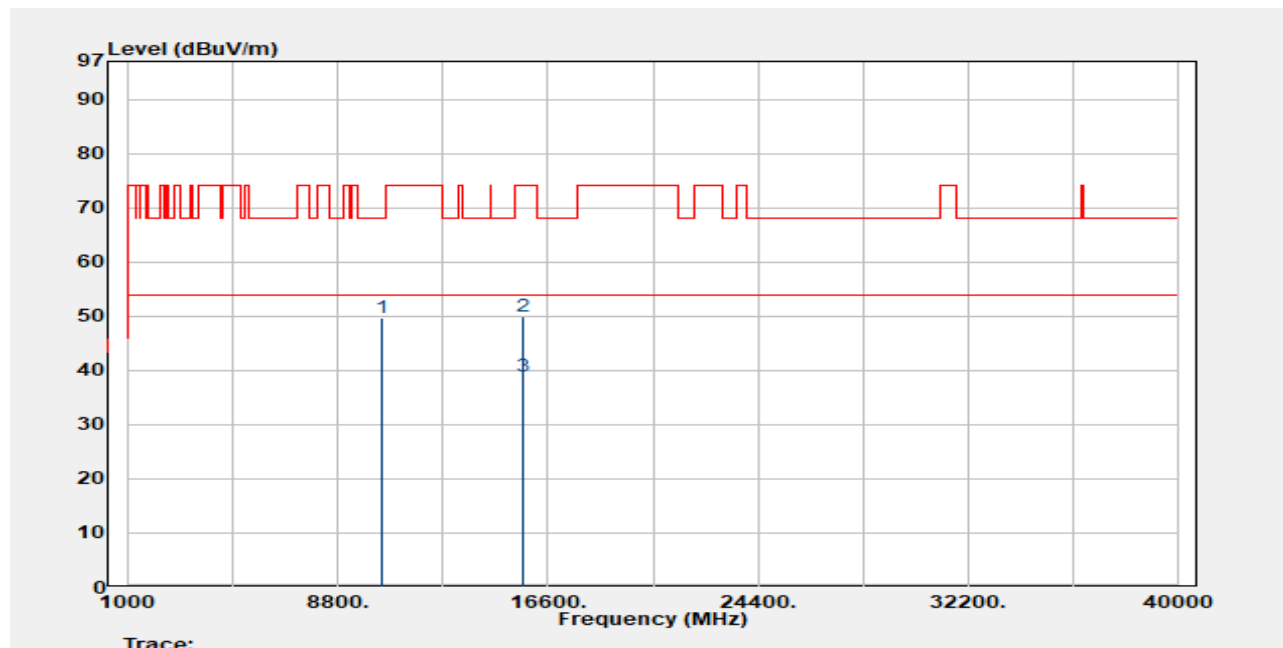
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
10440.000	Peak	41.42	8.39	49.80	68.20	-18.40
15660.000	Peak	44.44	5.48	49.92	74.00	-24.08
15660.000	Average	33.46	5.48	38.94	54.00	-15.06

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5240 MHz

Test Mode :Tx

EUT Pol :H Plane

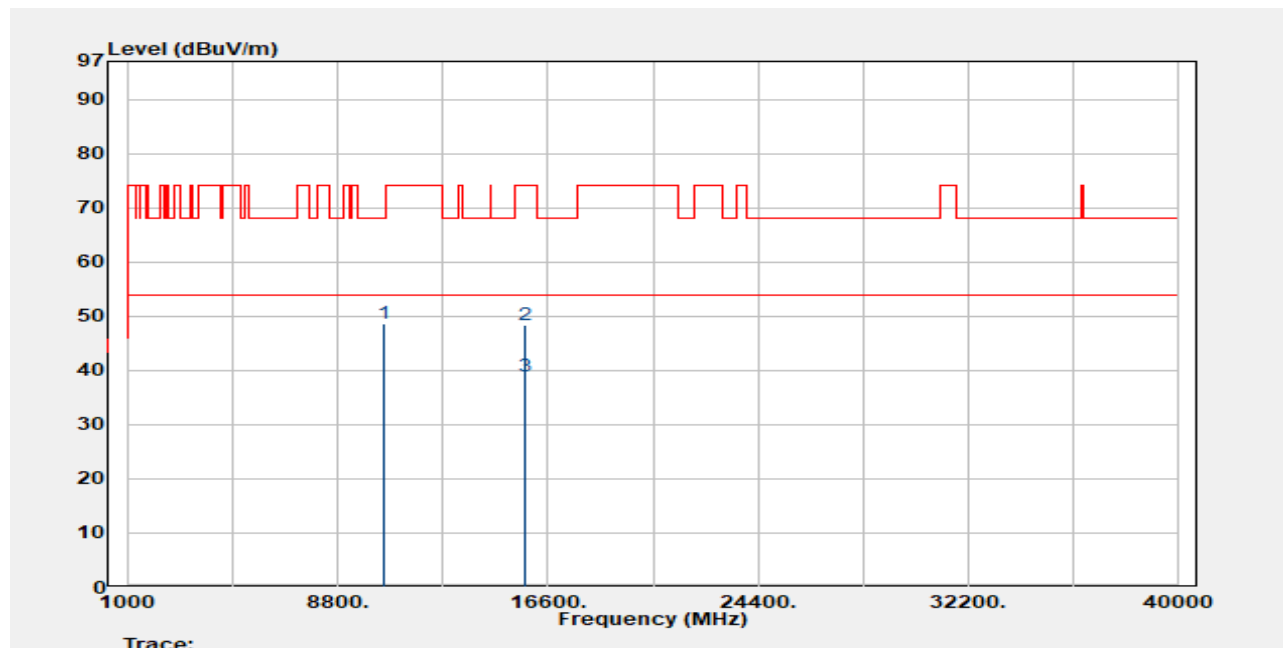
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	40.43	8.16	48.59	68.20	-19.61
15720.000	Peak	42.94	5.37	48.31	74.00	-25.69
15720.000	Average	33.51	5.37	38.88	54.00	-15.12

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5240 MHz

Test Mode :Tx

EUT Pol :H Plane

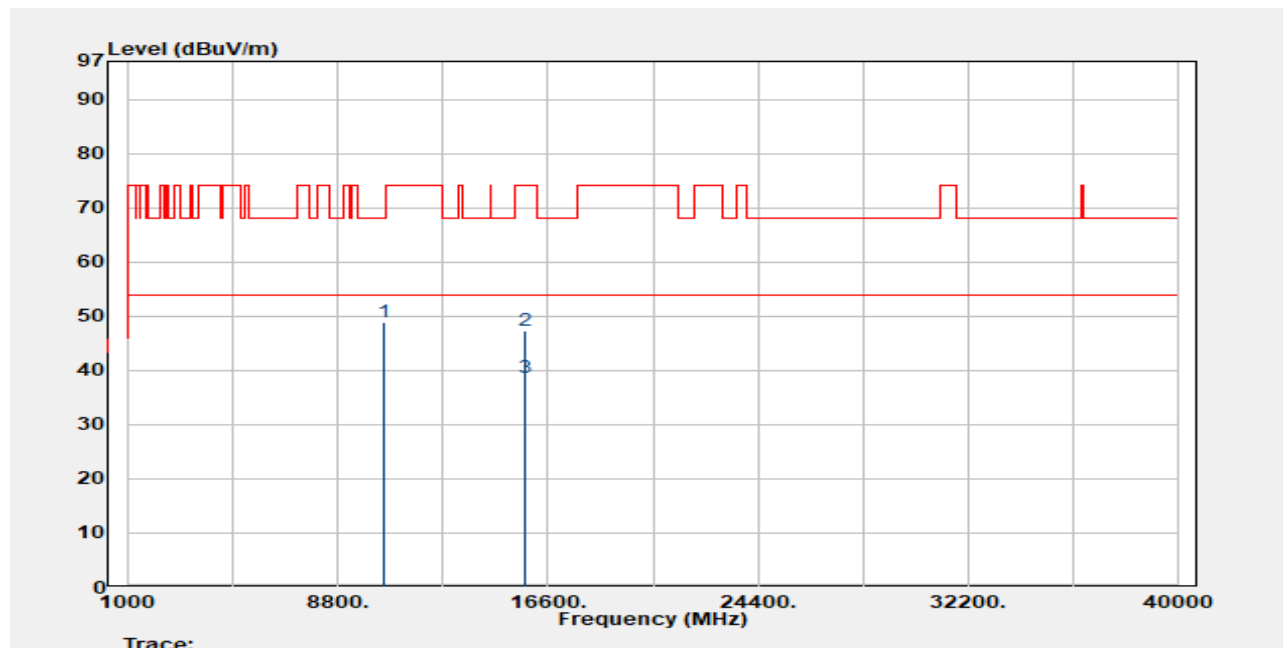
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
10480.000	Peak	40.79	8.16	48.95	68.20	-19.25
15720.000	Peak	41.92	5.37	47.30	74.00	-26.70
15720.000	Average	33.33	5.37	38.70	54.00	-15.30

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5260 MHz

Test Mode :Tx

EUT Pol :H Plane

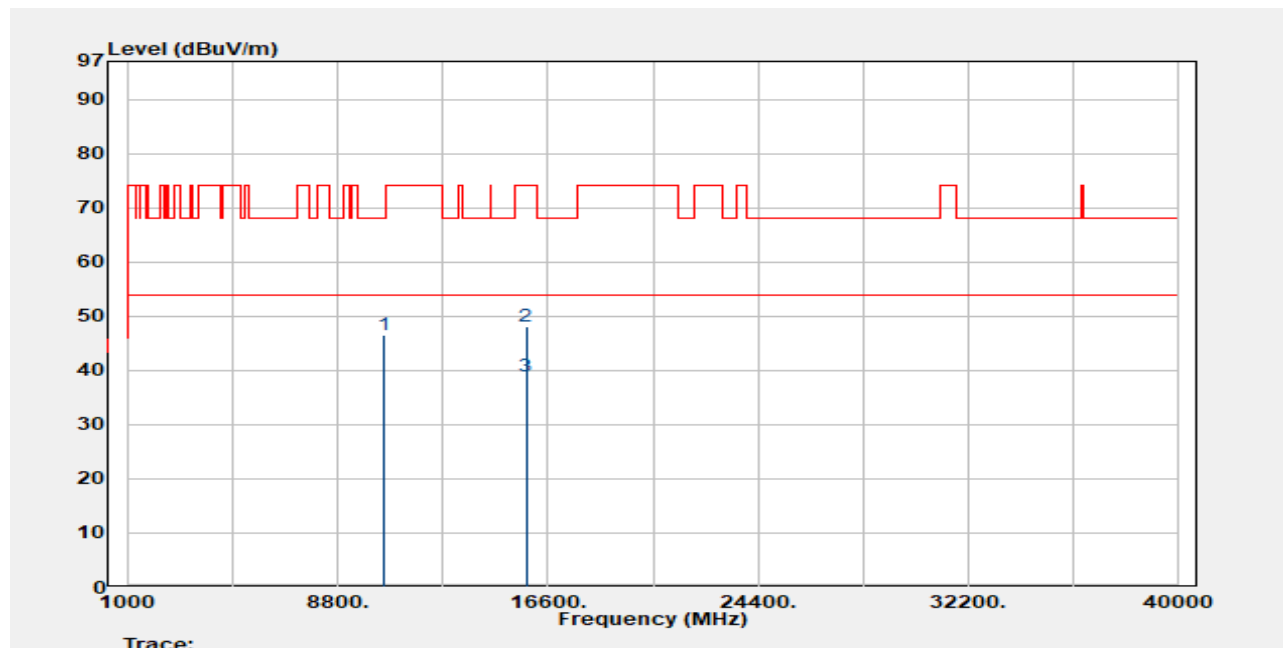
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
10520.000	Peak	38.55	8.05	46.61	68.20	-21.59
15780.000	Peak	42.61	5.46	48.07	74.00	-25.93
15780.000	Average	33.50	5.46	38.96	54.00	-15.04

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5260 MHz

Test Mode :Tx

EUT Pol :H Plane

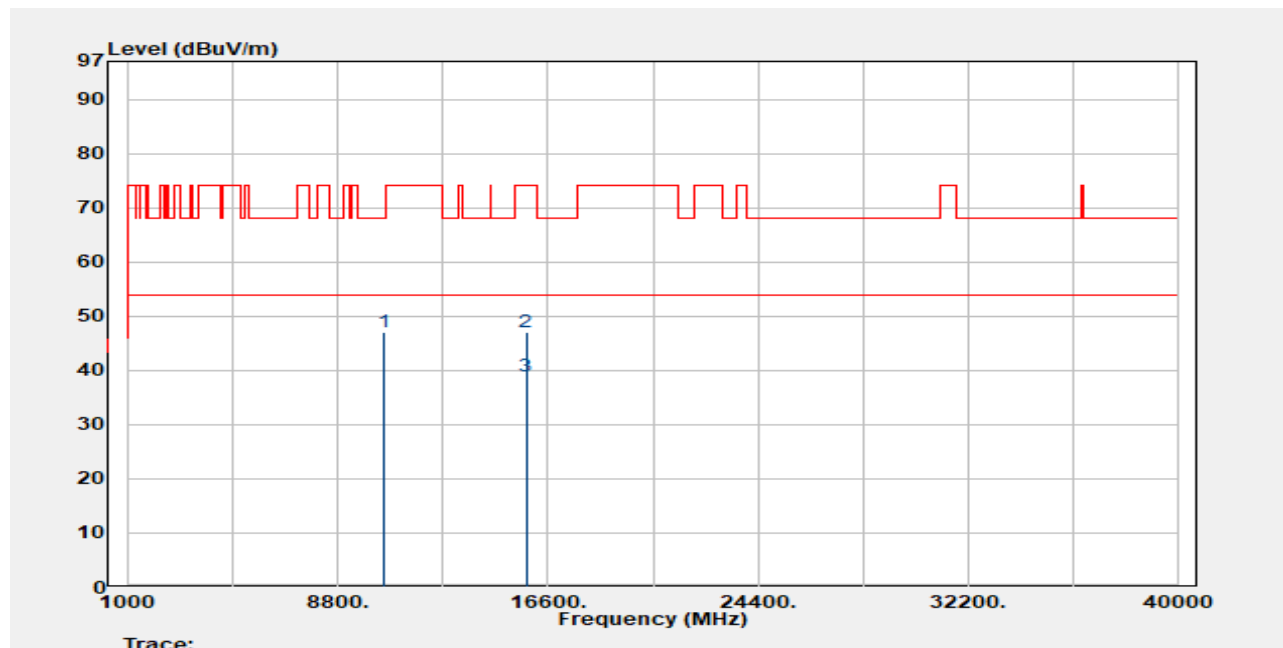
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.000	Peak	39.01	8.05	47.06	68.20	-21.14
15780.000	Peak	41.63	5.46	47.09	74.00	-26.91
15780.000	Average	33.41	5.46	38.87	54.00	-15.13

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5300 MHz

Test Mode :Tx

EUT Pol :H Plane

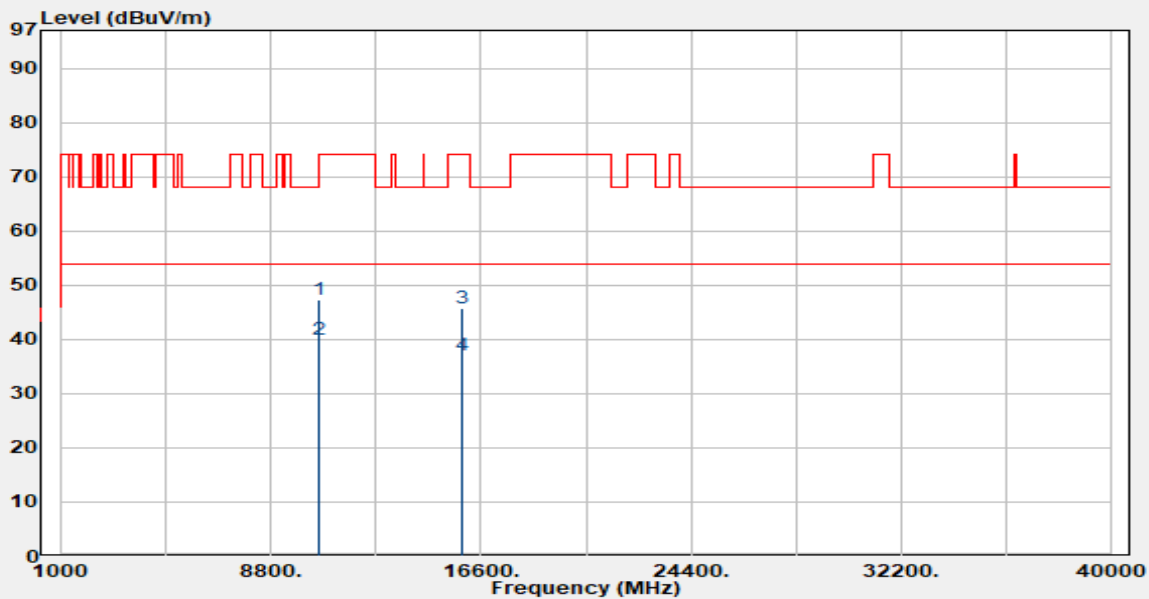
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.000	Peak	39.25	8.07	47.32	74.00	-26.68
10600.000	Average	31.79	8.07	39.86	54.00	-14.14
15900.000	Peak	41.57	4.07	45.65	74.00	-28.35
15900.000	Average	33.09	4.07	37.16	54.00	-16.84

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5300 MHz

Test Mode :Tx

EUT Pol :H Plane

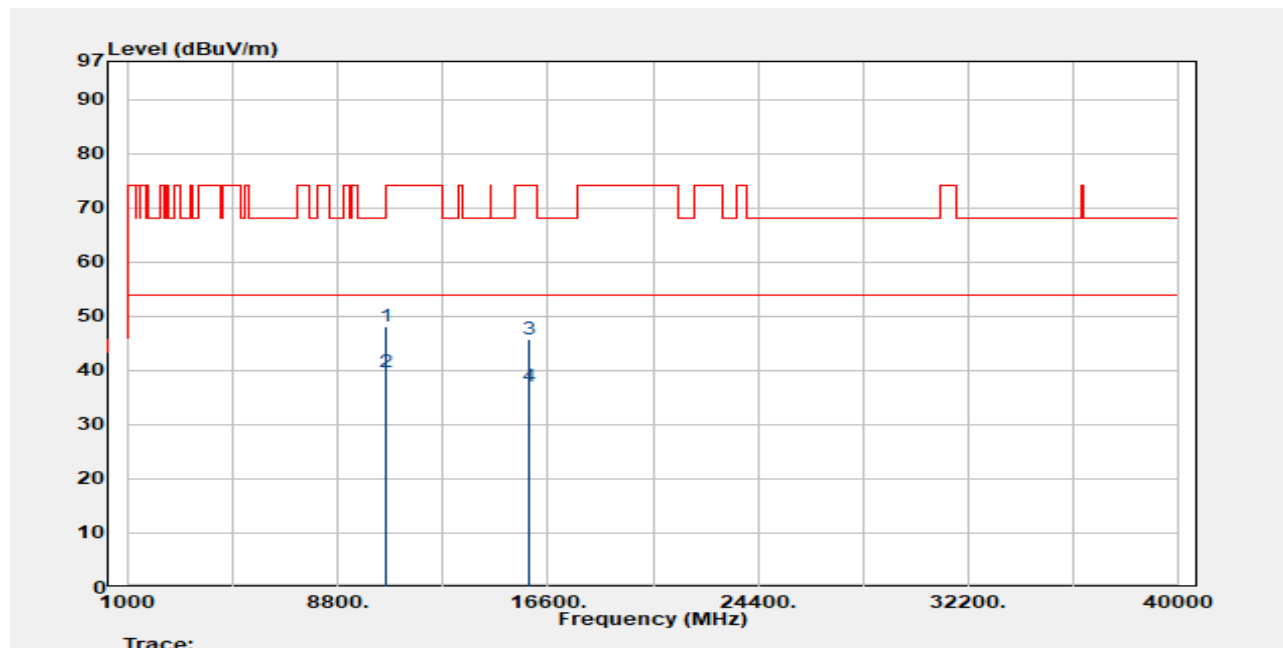
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	Peak	39.99	8.07	48.06	74.00	-25.94
10600.000	Average	31.64	8.07	39.71	54.00	-14.29
15900.000	Peak	41.59	4.07	45.66	74.00	-28.34
15900.000	Average	32.92	4.07	36.99	54.00	-17.01

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5320 MHz

Test Mode :Tx

EUT Pol :H Plane

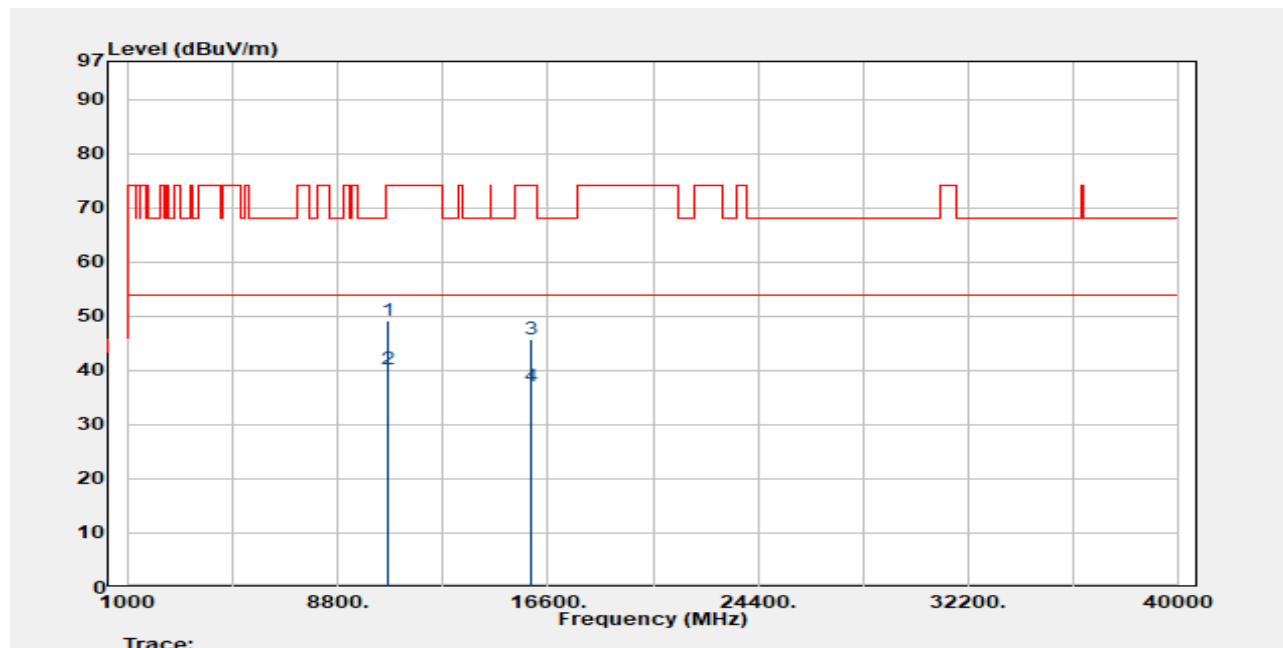
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	Peak	41.07	8.07	49.14	74.00	-24.86
10640.000	Average	32.27	8.07	40.34	54.00	-13.66
15960.000	Peak	41.58	4.19	45.77	74.00	-28.23
15960.000	Average	32.94	4.19	37.13	54.00	-16.87

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5320 MHz

Test Mode :Tx

EUT Pol :H Plane

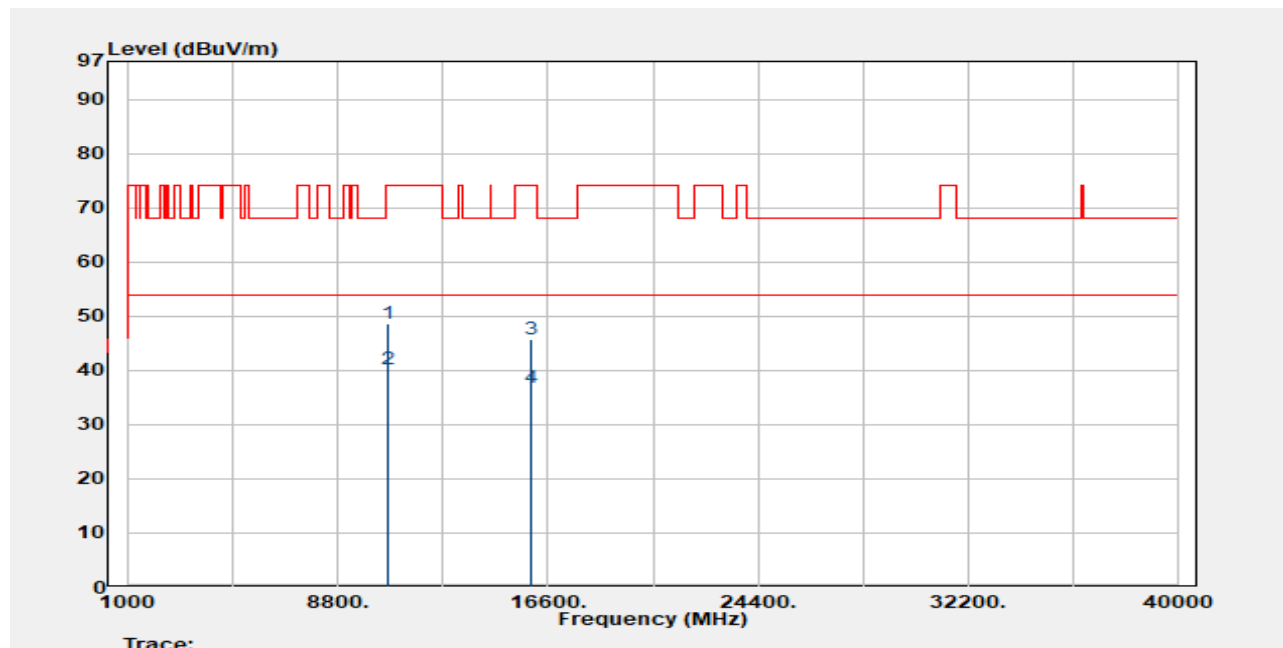
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.000	Peak	40.53	8.07	48.59	74.00	-25.41
10640.000	Average	32.23	8.07	40.30	54.00	-13.70
15960.000	Peak	41.58	4.19	45.78	74.00	-28.22
15960.000	Average	32.62	4.19	36.81	54.00	-17.19

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5500 MHz

Test Mode :Tx

EUT Pol :H Plane

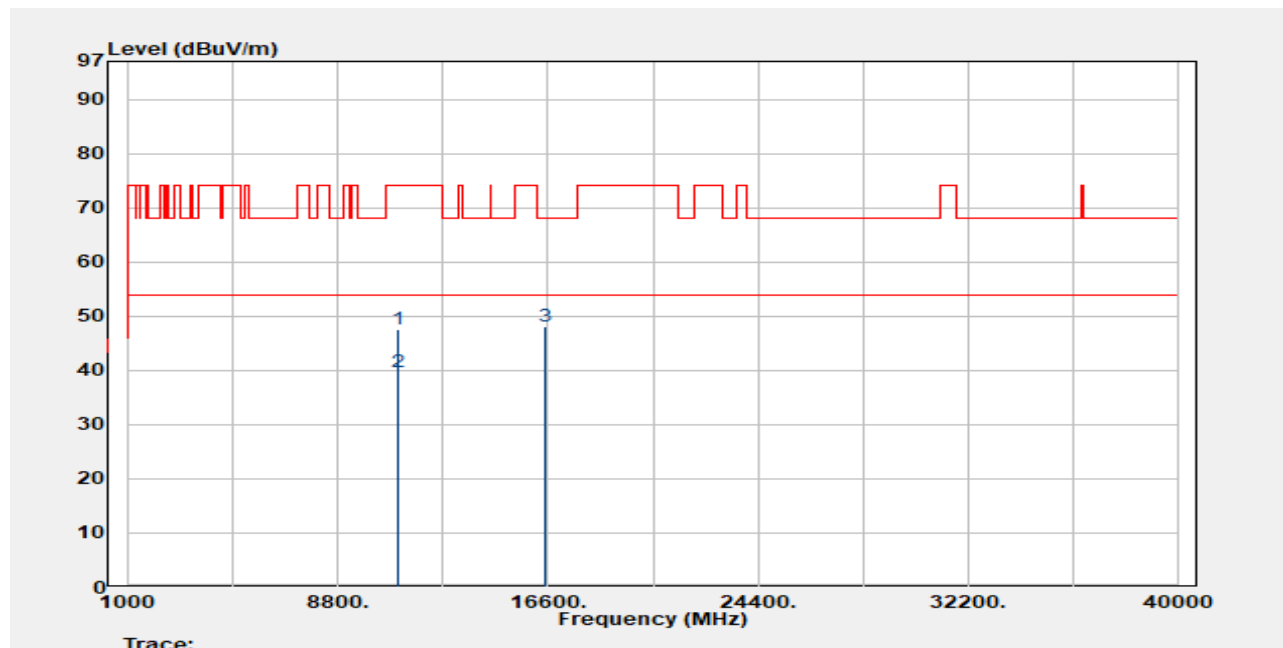
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.000	Peak	39.16	8.34	47.50	74.00	-26.50
11000.000	Average	31.38	8.34	39.72	54.00	-14.28
16500.000	Peak	41.11	7.11	48.22	68.20	-19.98

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5500 MHz

Test Mode :Tx

EUT Pol :H Plane

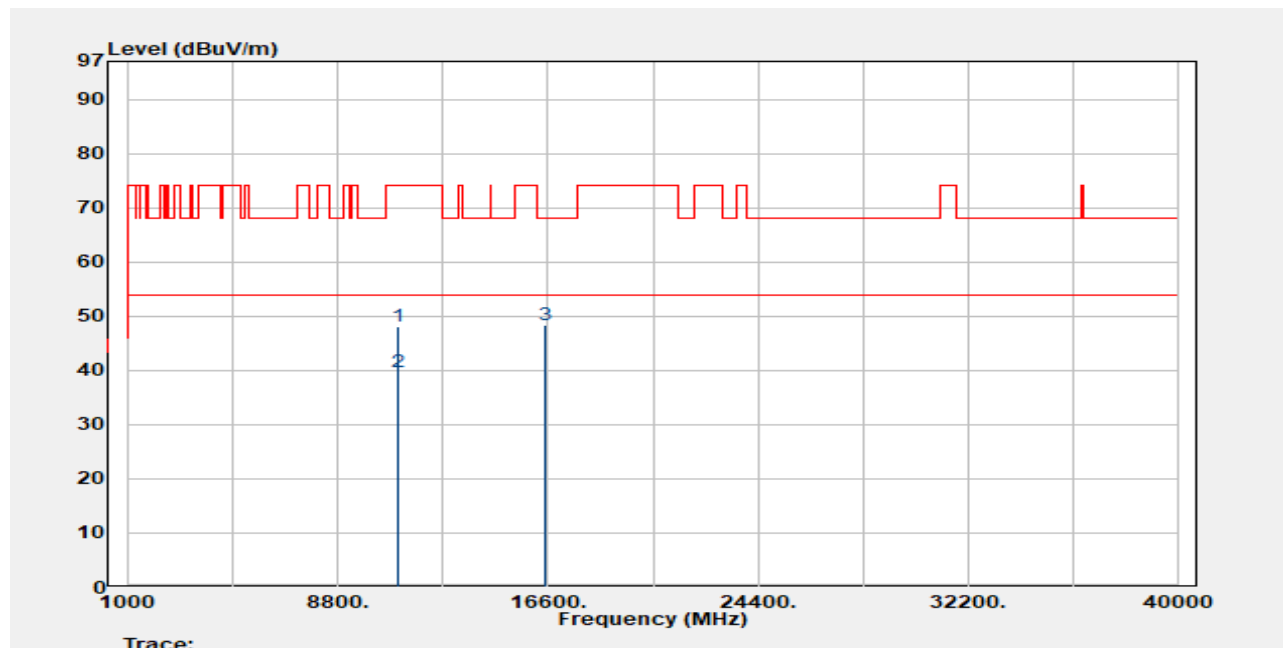
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.000	Peak	39.70	8.34	48.04	74.00	-25.96
11000.000	Average	31.23	8.34	39.57	54.00	-14.43
16500.000	Peak	41.34	7.11	48.45	68.20	-19.75

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5580 MHz

Test Mode :Tx

EUT Pol :H Plane

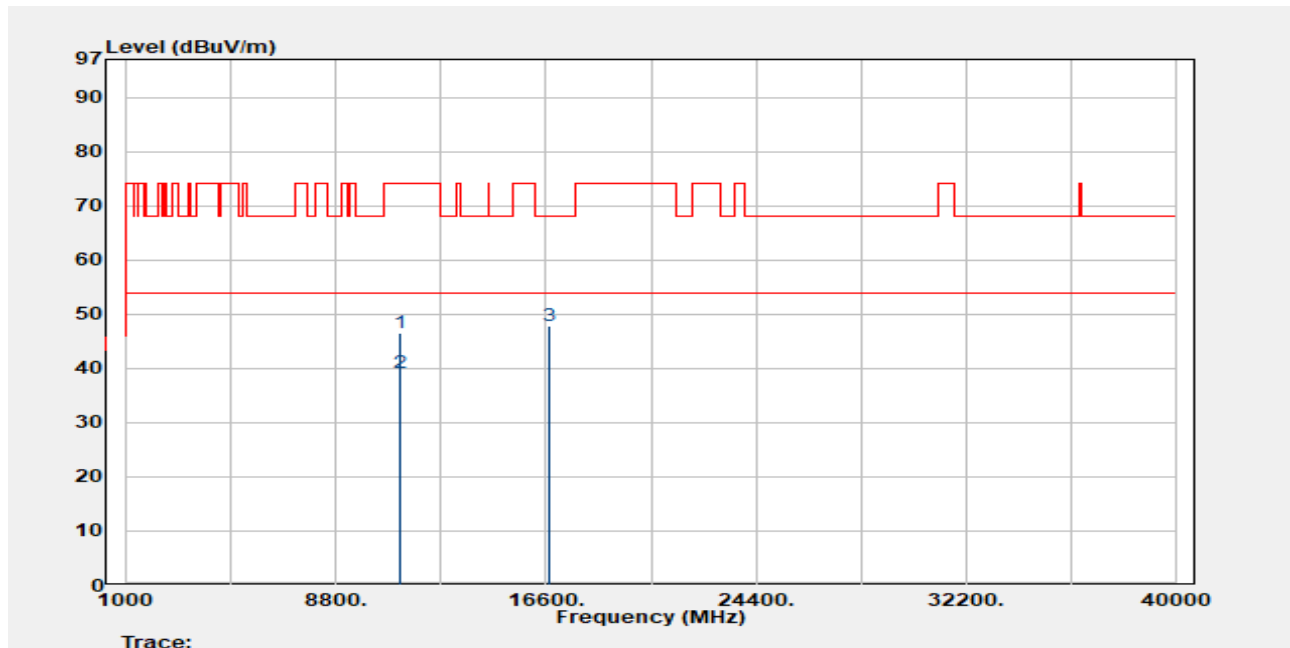
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	Peak	38.63	8.01	46.64	74.00	-27.36
11160.000	Average	31.08	8.01	39.09	54.00	-14.91
16740.000	Peak	40.61	7.23	47.84	68.20	-20.36

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5580 MHz

Test Mode :Tx

EUT Pol :H Plane

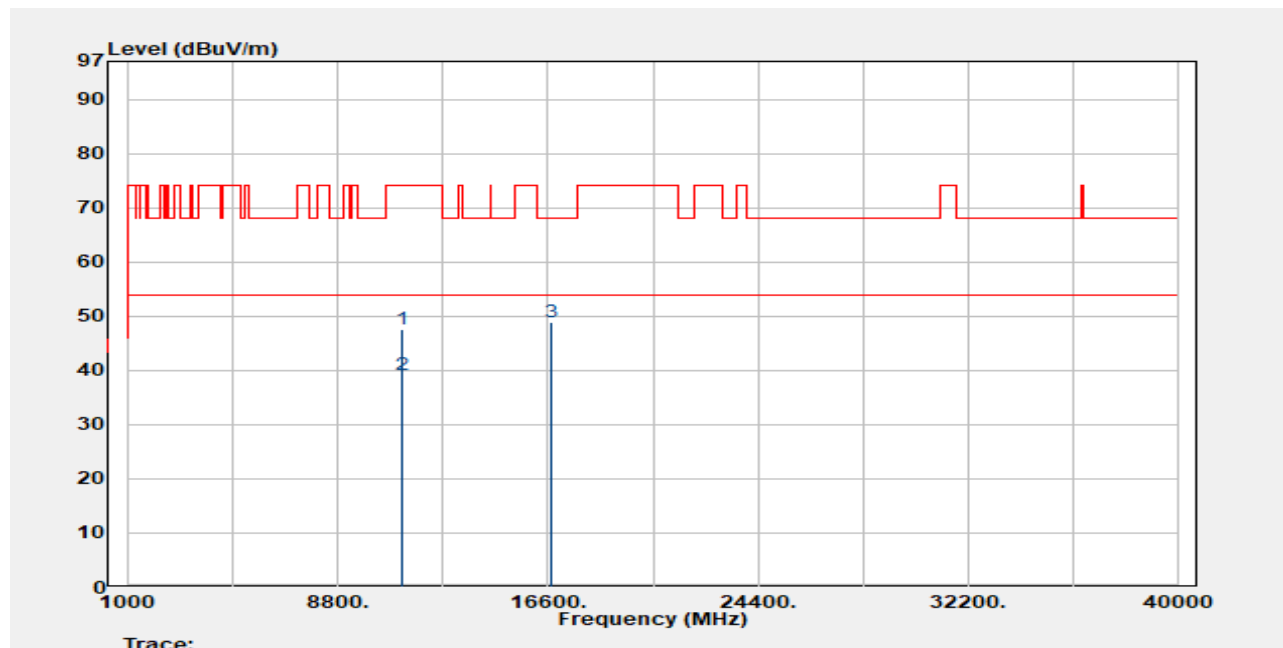
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	Peak	39.45	8.01	47.46	74.00	-26.54
11160.000	Average	31.10	8.01	39.11	54.00	-14.89
16740.000	Peak	41.57	7.23	48.80	68.20	-19.40

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5700 MHz

Test Mode :Tx

EUT Pol :H Plane

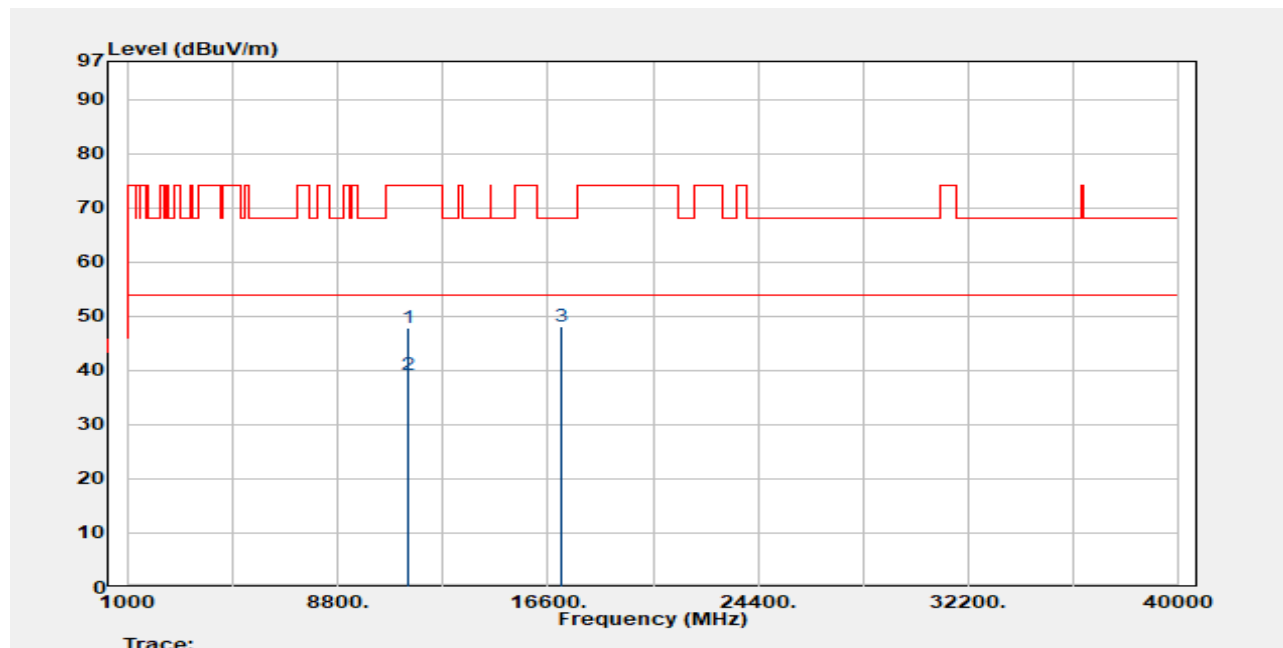
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.000	Peak	39.97	7.98	47.95	74.00	-26.05
11400.000	Average	31.11	7.98	39.09	54.00	-14.91
17100.000	Peak	41.91	6.25	48.16	68.20	-20.04

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5700 MHz

Test Mode :Tx

EUT Pol :H Plane

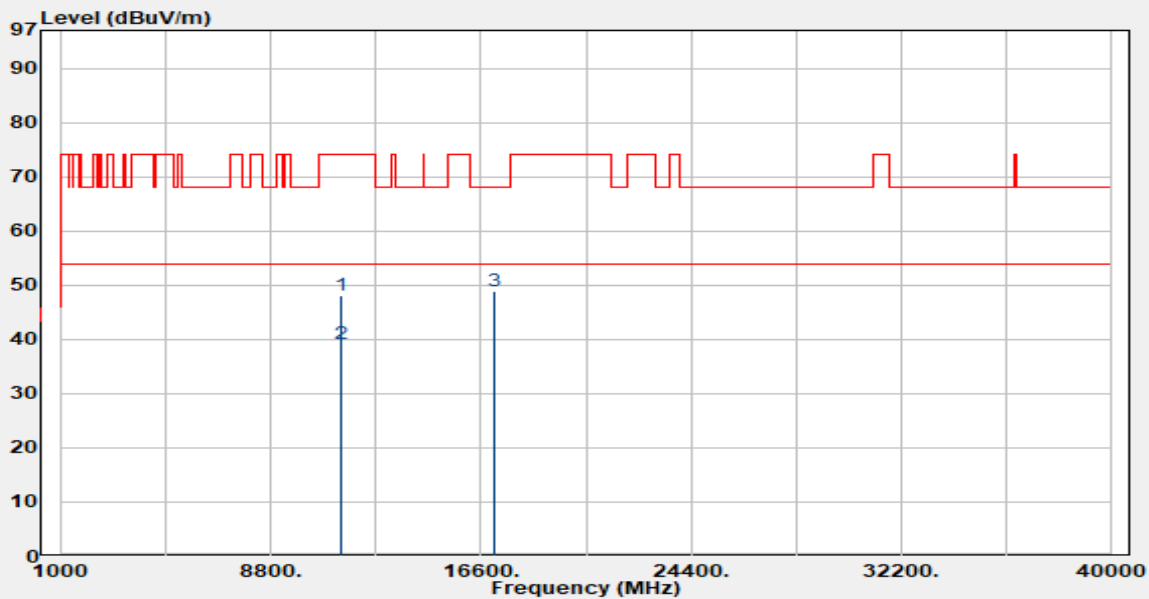
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.000	Peak	40.16	7.98	48.14	74.00	-25.86
11400.000	Average	31.07	7.98	39.05	54.00	-14.95
17100.000	Peak	42.54	6.25	48.79	68.20	-19.41

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5720 MHz

Test Mode :Tx

EUT Pol :H Plane

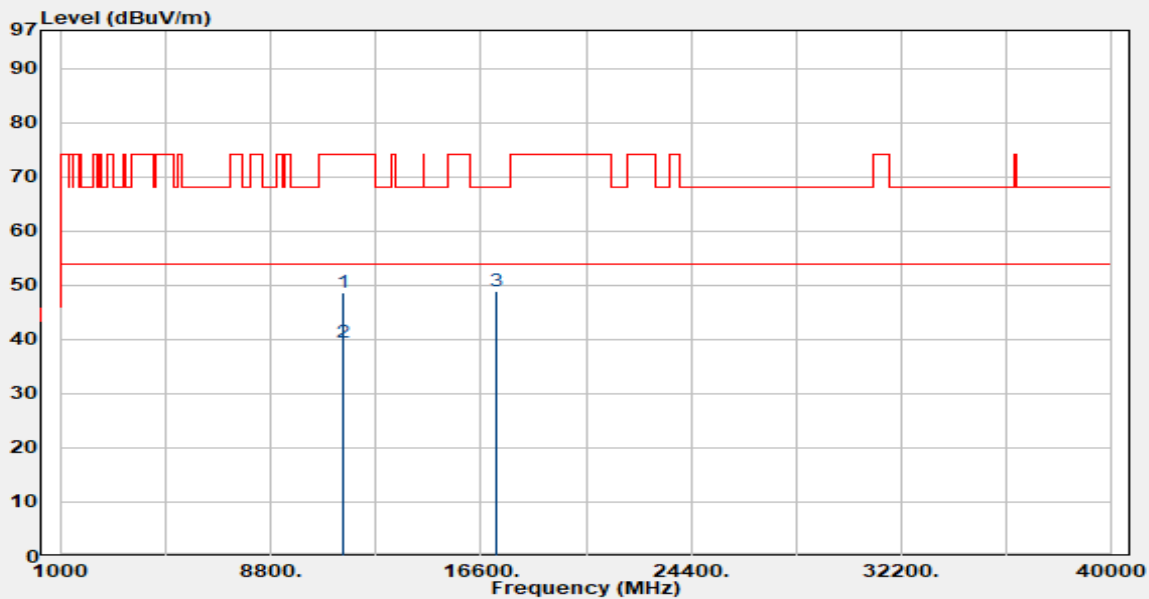
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
11440.000	Peak	40.76	8.00	48.76	74.00	-25.24
11440.000	Average	31.49	8.00	39.49	54.00	-14.51
17160.000	Peak	42.30	6.66	48.97	68.20	-19.23

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5720 MHz

Test Mode :Tx

EUT Pol :H Plane

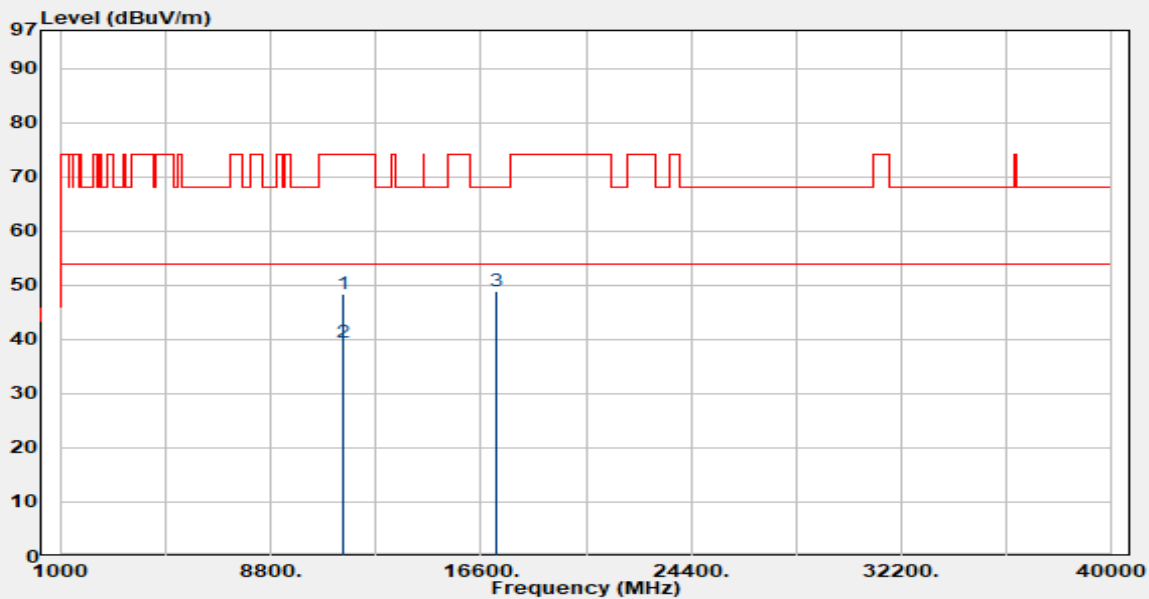
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.000	Peak	40.30	8.00	48.30	74.00	-25.70
11440.000	Average	31.45	8.00	39.45	54.00	-14.55
17160.000	Peak	42.15	6.66	48.81	68.20	-19.39

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5745 MHz

Test Mode :Tx

EUT Pol :H Plane

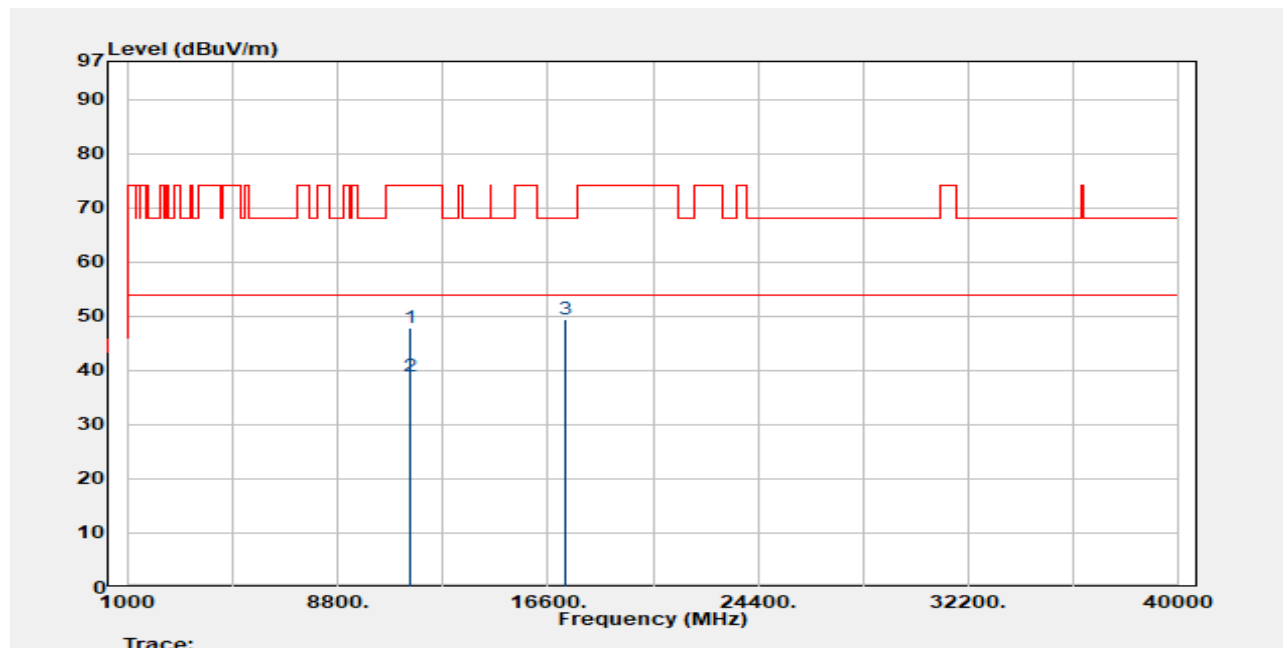
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
11490.000	Peak	39.75	8.02	47.78	74.00	-26.22
11490.000	Average	30.96	8.02	38.98	54.00	-15.02
17235.000	Peak	42.12	7.30	49.42	68.20	-18.78

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5745 MHz

Test Mode :Tx

EUT Pol :H Plane

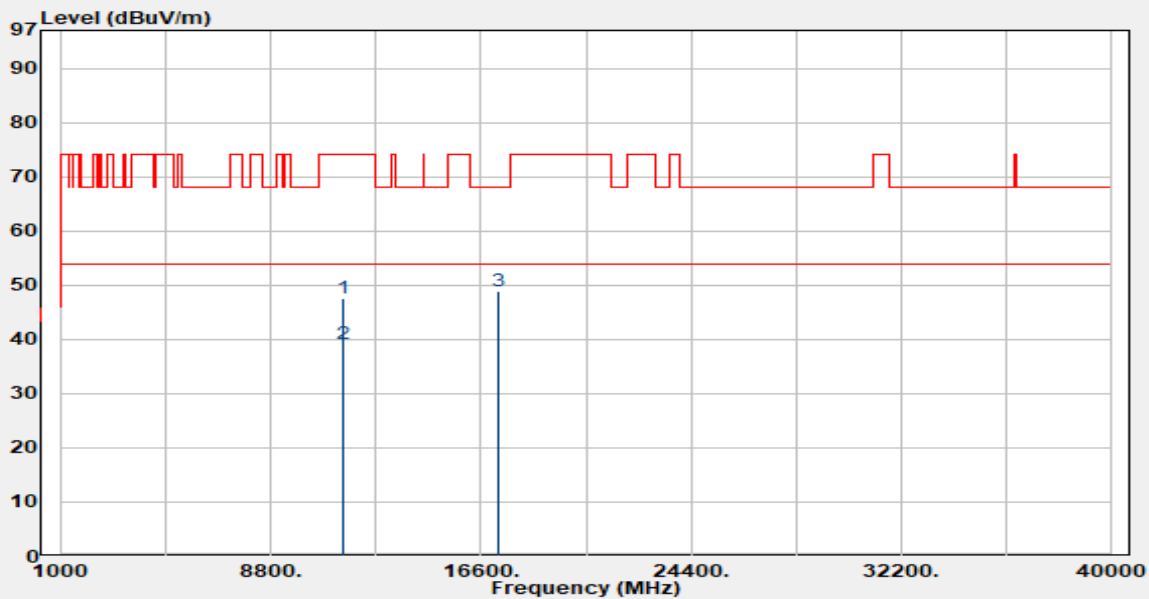
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
11490.000	Peak	39.63	8.02	47.66	74.00	-26.34
11490.000	Average	31.03	8.02	39.05	54.00	-14.95
17235.000	Peak	41.71	7.30	49.01	68.20	-19.19

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5785 MHz

Test Mode :Tx

EUT Pol :H Plane

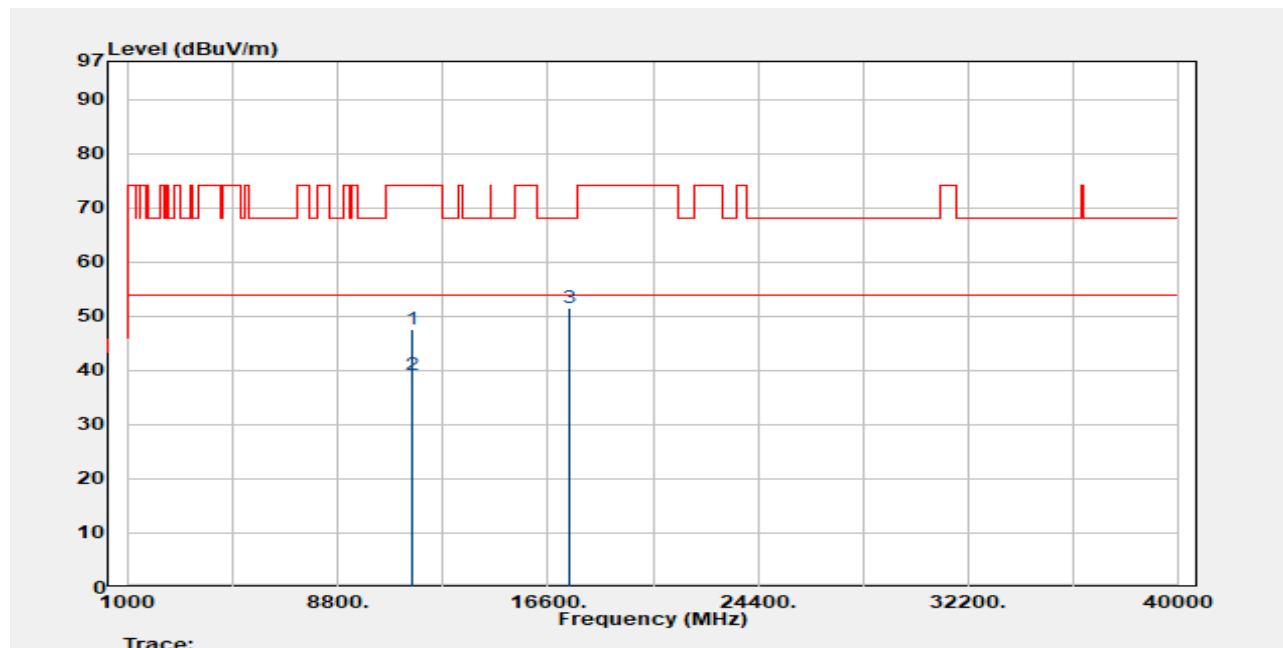
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	Peak	39.93	7.74	47.67	74.00	-26.33
11570.000	Average	31.53	7.74	39.27	54.00	-14.73
17355.000	Peak	43.39	8.20	51.59	68.20	-16.61

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5785 MHz

Test Mode :Tx

EUT Pol :H Plane

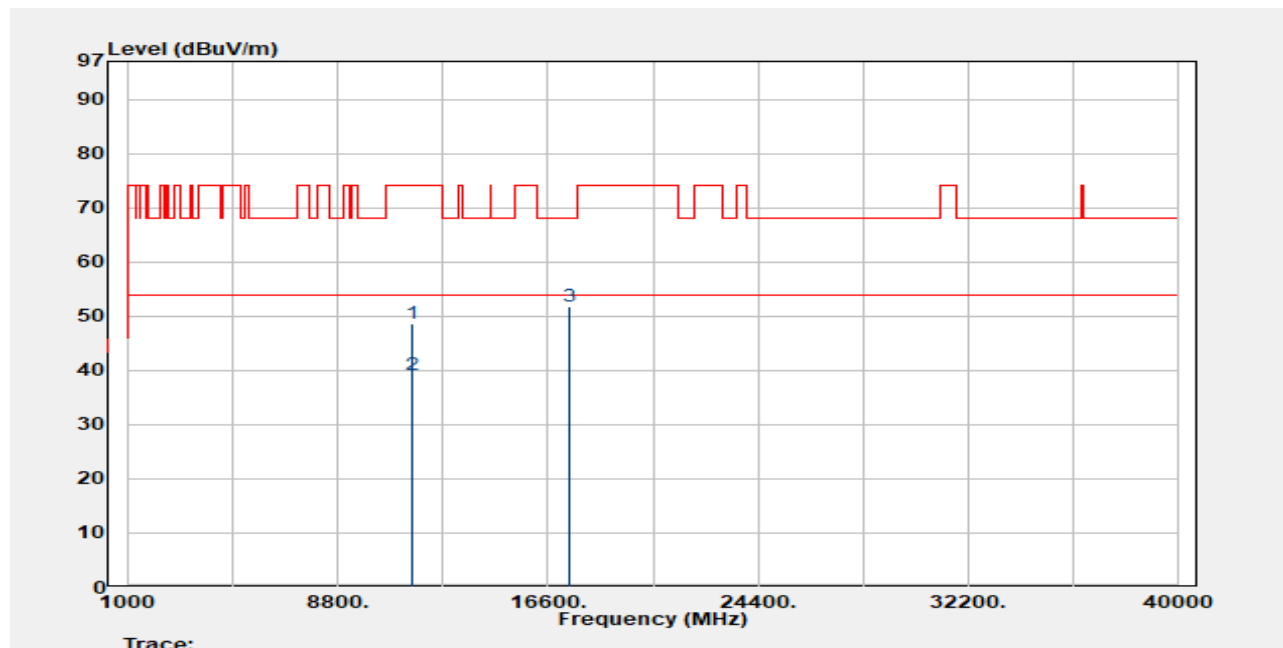
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	Peak	40.81	7.74	48.55	74.00	-25.45
11570.000	Average	31.56	7.74	39.30	54.00	-14.70
17355.000	Peak	43.63	8.20	51.83	68.20	-16.37

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5825 MHz

Test Mode :Tx

EUT Pol :H Plane

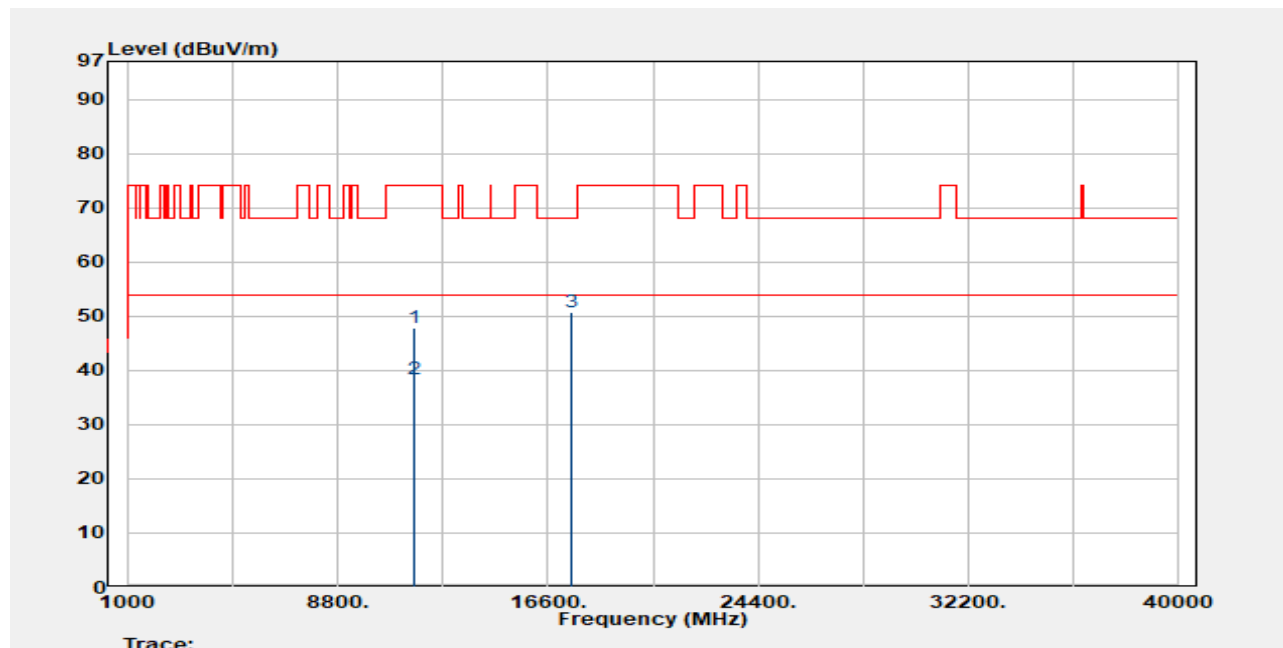
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
11650.000	Peak	40.25	7.52	47.77	74.00	-26.23
11650.000	Average	30.93	7.52	38.45	54.00	-15.55
17475.000	Peak	42.89	7.92	50.81	68.20	-17.39

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5825 MHz

Test Mode :Tx

EUT Pol :H Plane

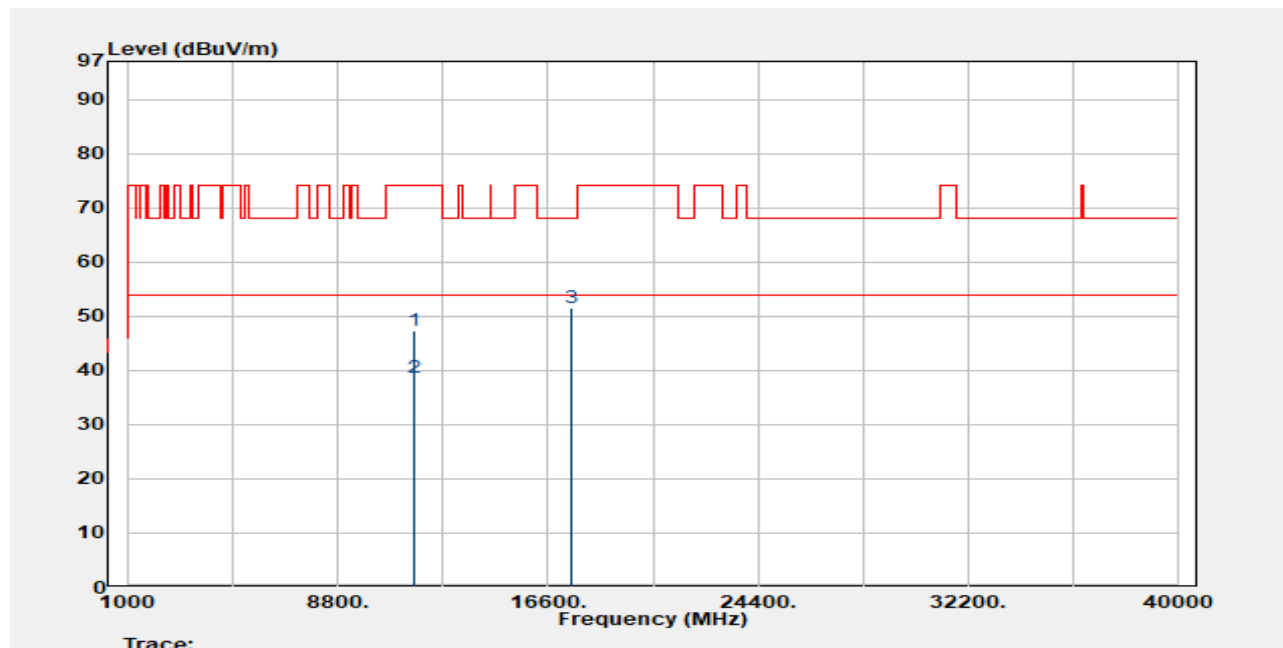
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.000	Peak	39.70	7.52	47.22	74.00	-26.78
11650.000	Average	31.14	7.52	38.66	54.00	-15.34
17475.000	Peak	43.65	7.92	51.56	68.20	-16.64

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5190 MHz

Test Mode :Tx

EUT Pol :H Plane

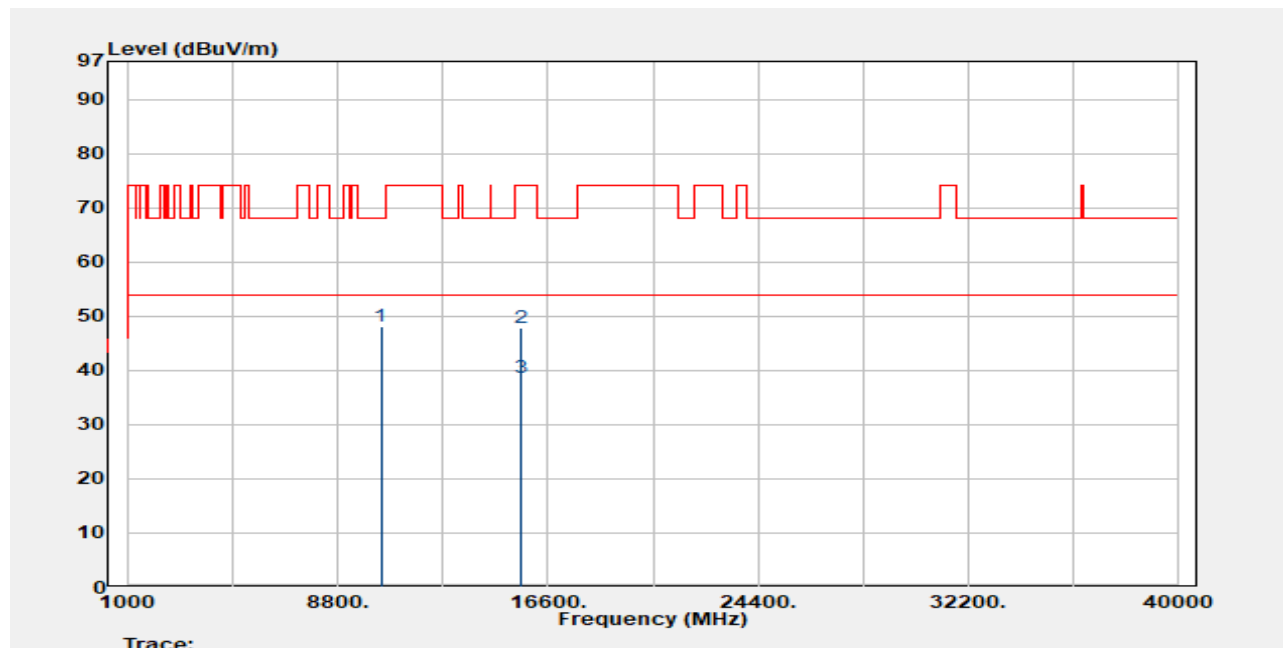
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
10380.000	Peak	39.51	8.55	48.06	68.20	-20.14
15570.000	Peak	41.97	5.99	47.96	74.00	-26.04
15570.000	Average	32.67	5.99	38.66	54.00	-15.34

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5190 MHz

Test Mode :Tx

EUT Pol :H Plane

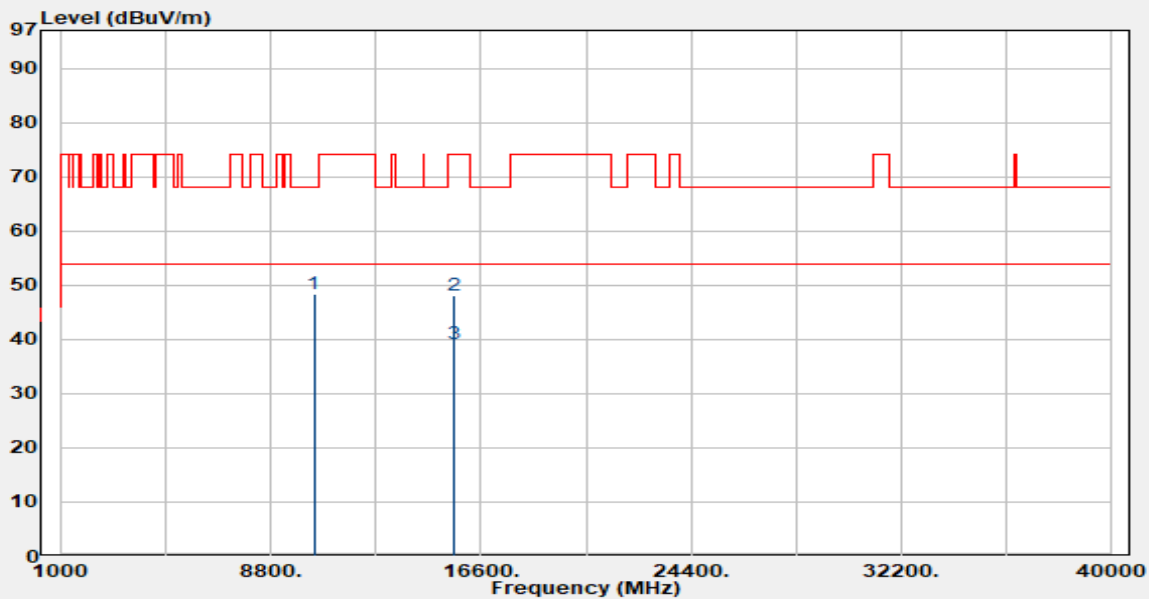
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
10380.000	Peak	39.88	8.55	48.42	68.20	-19.78
15570.000	Peak	42.17	5.99	48.16	74.00	-25.84
15570.000	Average	33.21	5.99	39.20	54.00	-14.80

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5230 MHz

Test Mode :Tx

EUT Pol :H Plane

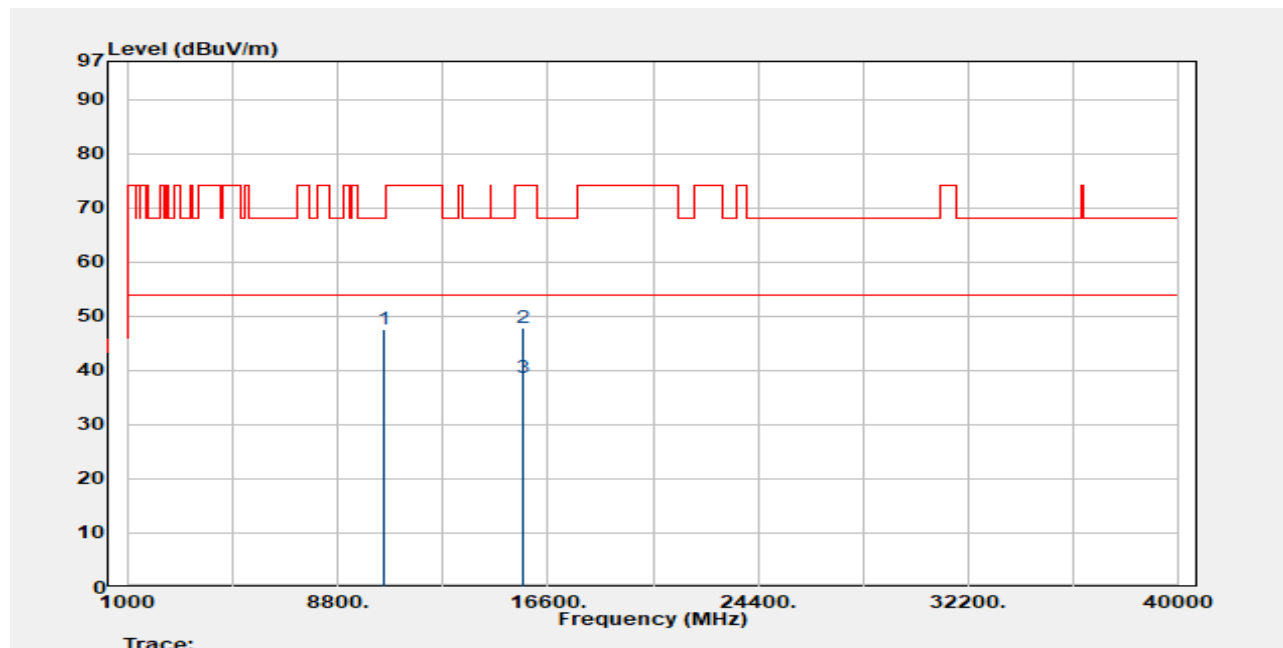
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
10460.000	Peak	39.20	8.28	47.48	68.20	-20.72
15690.000	Peak	42.56	5.38	47.94	74.00	-26.06
15690.000	Average	33.22	5.38	38.60	54.00	-15.40

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5230 MHz

Test Mode :Tx

EUT Pol :H Plane

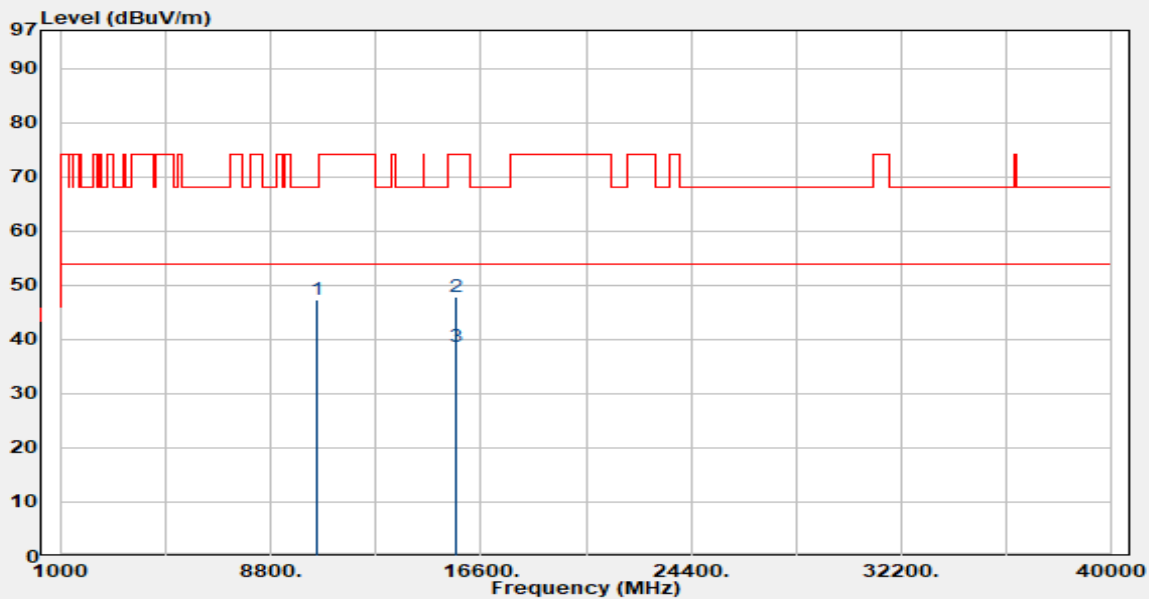
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
10460.000	Peak	38.95	8.28	47.23	68.20	-20.97
15690.000	Peak	42.41	5.38	47.78	74.00	-26.22
15690.000	Average	33.28	5.38	38.66	54.00	-15.34

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5270 MHz

Test Mode :Tx

EUT Pol :H Plane

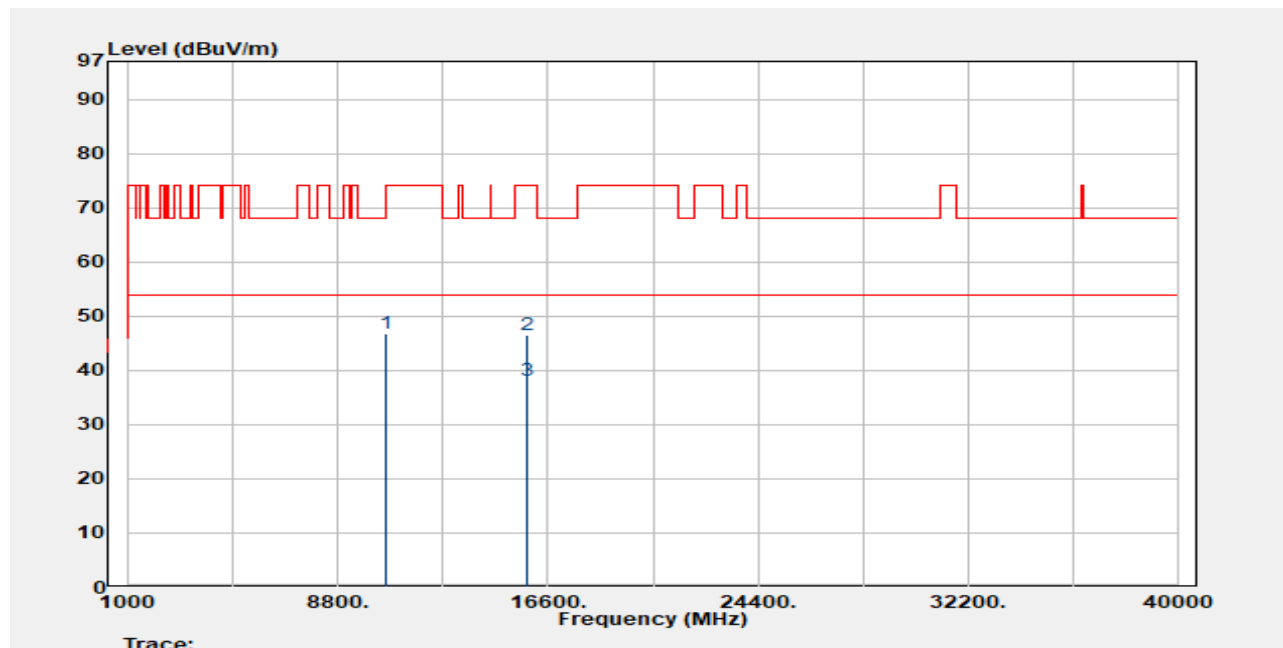
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.000	Peak	38.84	8.06	46.90	68.20	-21.30
15810.000	Peak	41.16	5.35	46.50	74.00	-27.50
15810.000	Average	32.83	5.35	38.18	54.00	-15.82

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5270 MHz

Test Mode :Tx

EUT Pol :H Plane

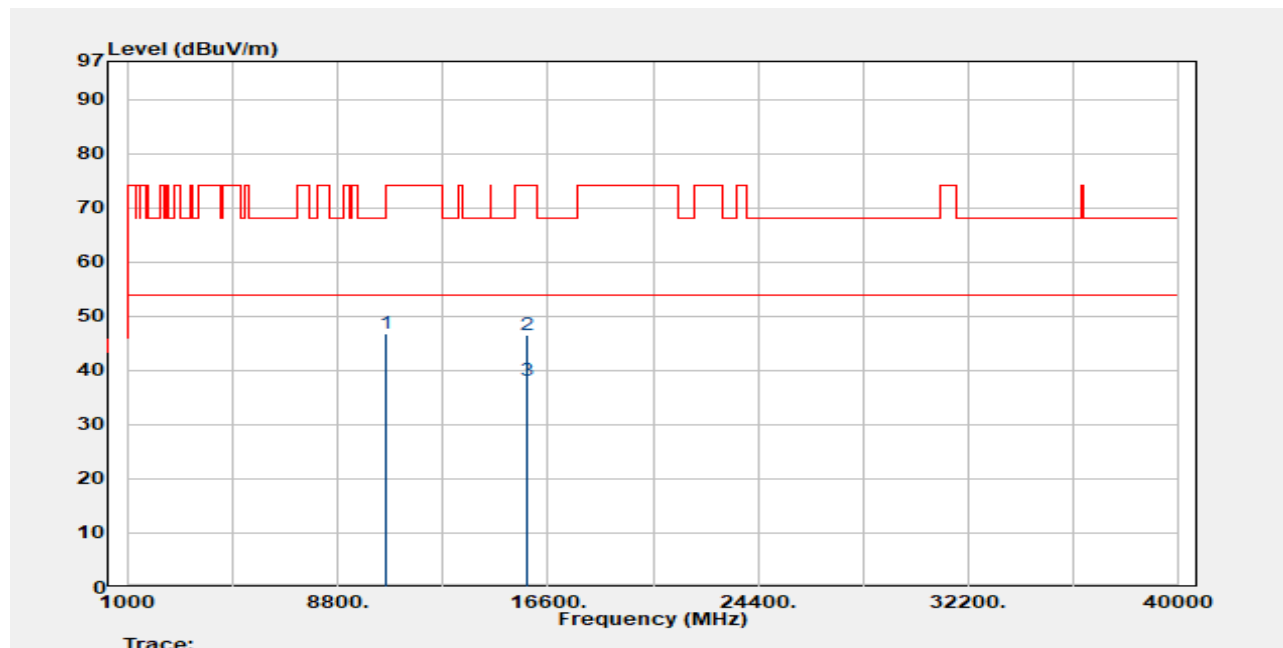
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	38.80	8.06	46.85	68.20	-21.35
15810.000	Peak	41.22	5.35	46.56	74.00	-27.44
15810.000	Average	32.68	5.35	38.03	54.00	-15.97

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5310 MHz

Test Mode :Tx

EUT Pol :H Plane

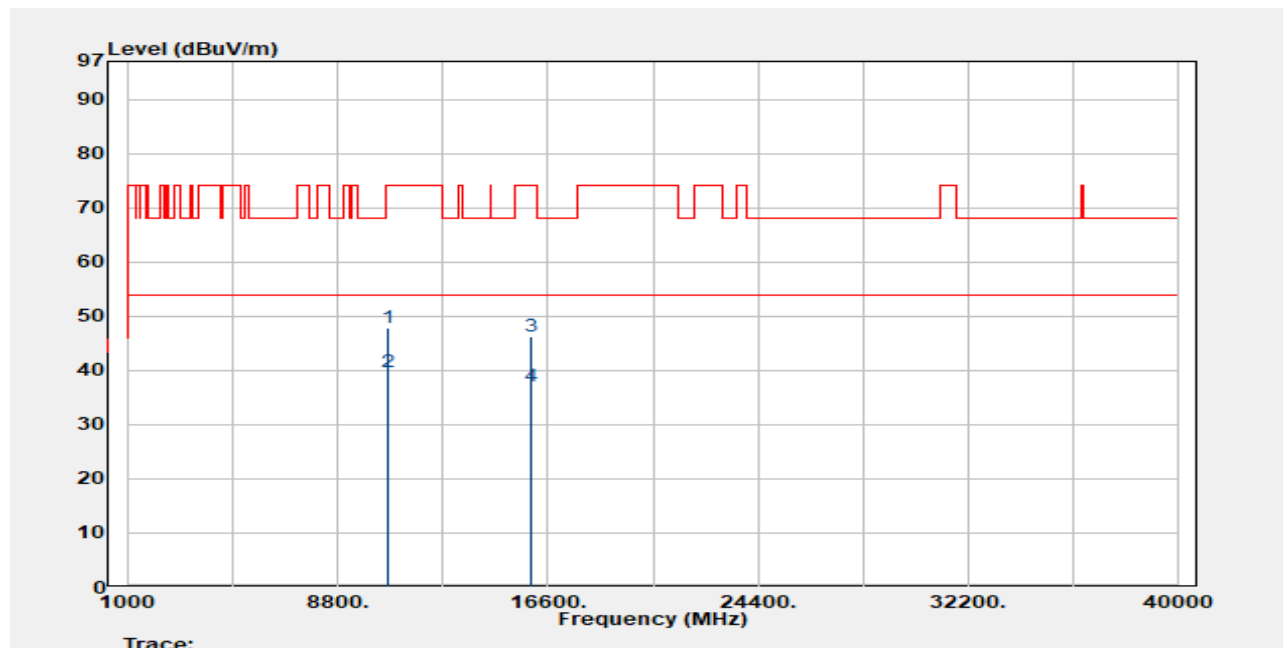
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.000	Peak	39.72	8.07	47.79	74.00	-26.21
10620.000	Average	31.72	8.07	39.79	54.00	-14.21
15930.000	Peak	42.04	4.13	46.17	74.00	-27.83
15930.000	Average	32.88	4.13	37.01	54.00	-16.99

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5310 MHz

Test Mode :Tx

EUT Pol :H Plane

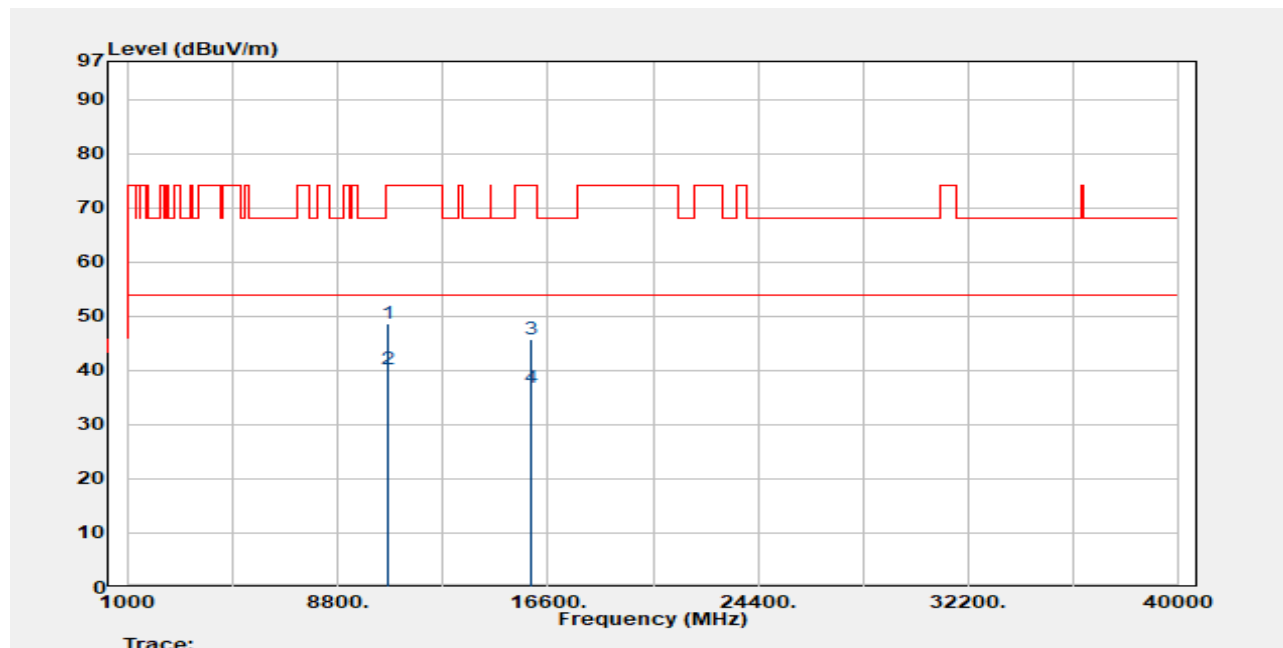
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
10620.000	Peak	40.47	8.07	48.54	74.00	-25.46
10620.000	Average	32.03	8.07	40.10	54.00	-13.90
15930.000	Peak	41.61	4.13	45.74	74.00	-28.26
15930.000	Average	32.68	4.13	36.81	54.00	-17.19

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5510 MHz

Test Mode :Tx

EUT Pol :H Plane

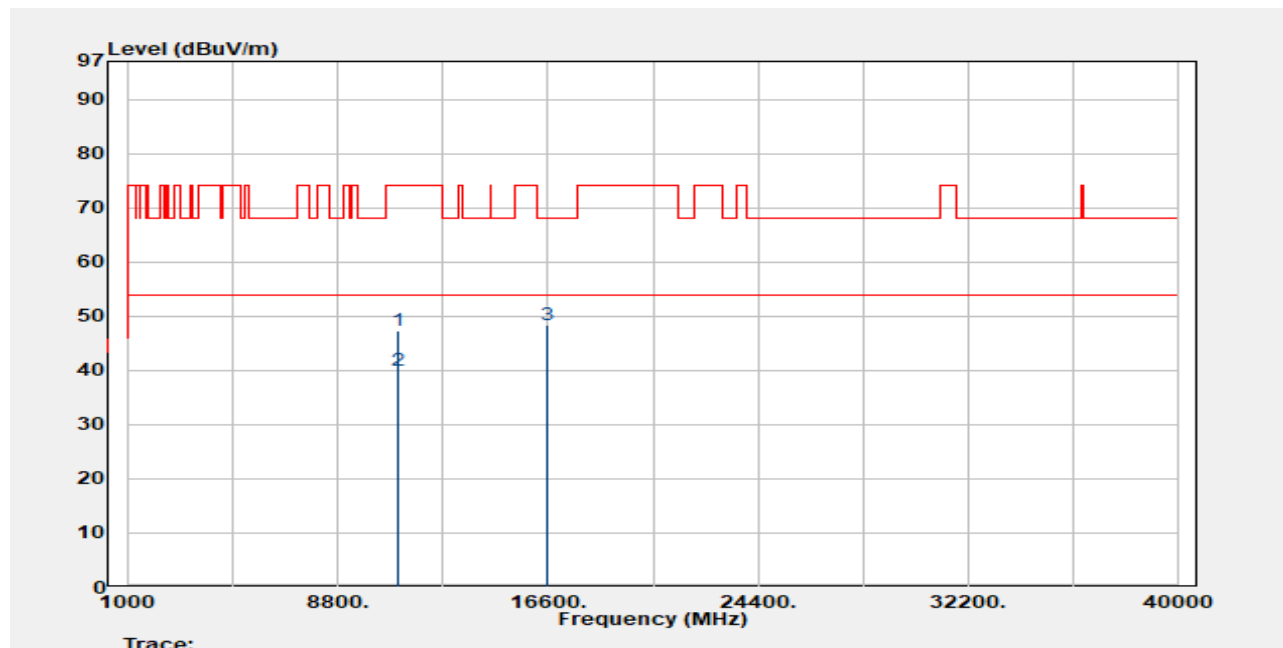
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.000	Peak	38.98	8.31	47.29	74.00	-26.71
11020.000	Average	31.60	8.31	39.91	54.00	-14.09
16530.000	Peak	41.19	7.21	48.40	68.20	-19.80

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5510 MHz

Test Mode :Tx

EUT Pol :H Plane

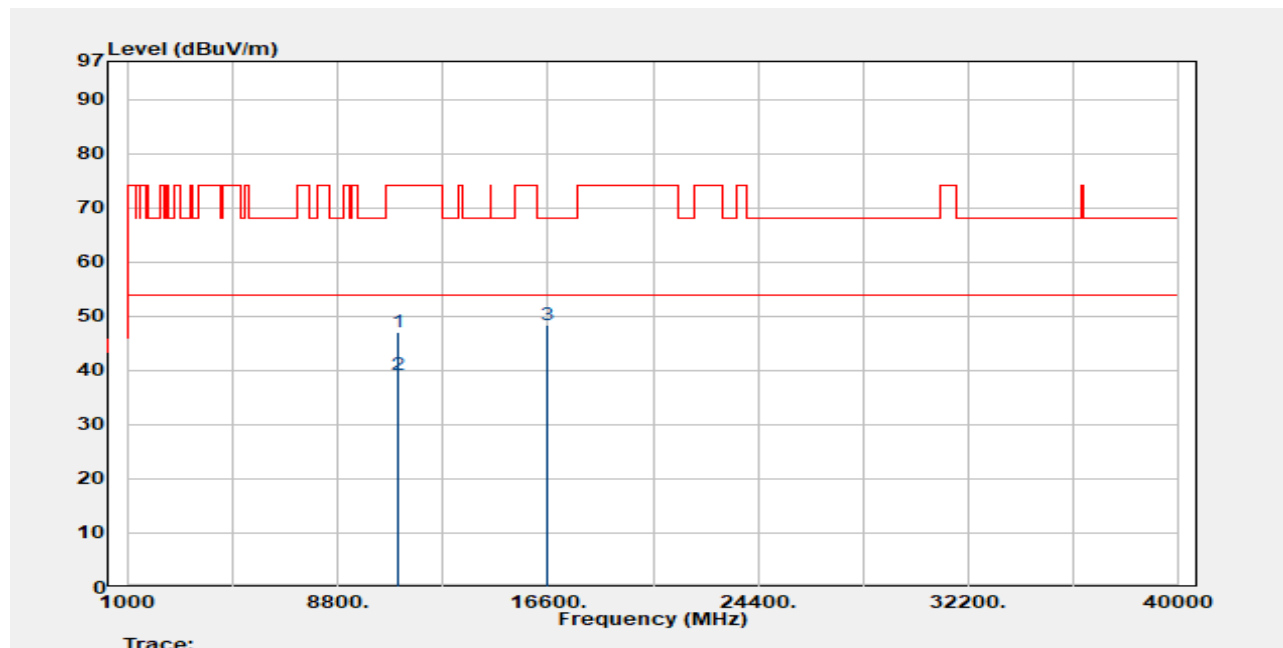
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
11020.000	Peak	38.86	8.31	47.17	74.00	-26.83
11020.000	Average	30.97	8.31	39.28	54.00	-14.72
16530.000	Peak	41.07	7.21	48.28	68.20	-19.92

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5550 MHz

Test Mode :Tx

EUT Pol :H Plane

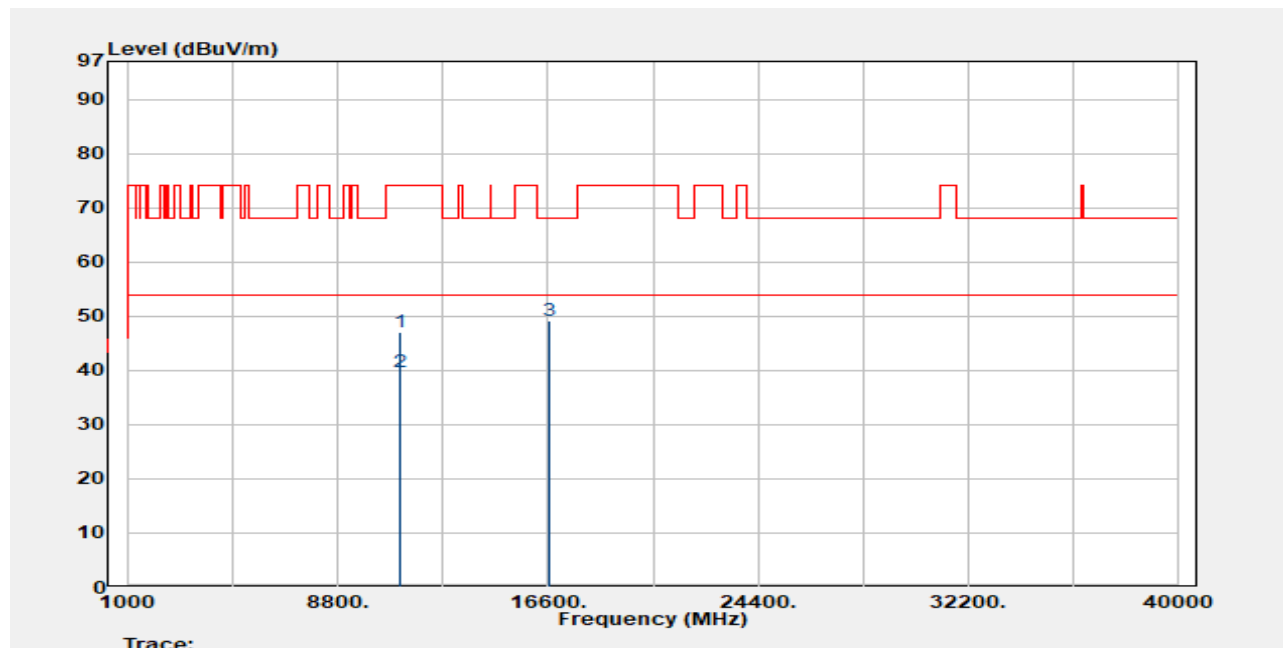
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.000	Peak	38.77	8.19	46.97	74.00	-27.03
11100.000	Average	31.39	8.19	39.58	54.00	-14.42
16650.000	Peak	41.71	7.44	49.15	68.20	-19.05

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5550 MHz

Test Mode :Tx

EUT Pol :H Plane

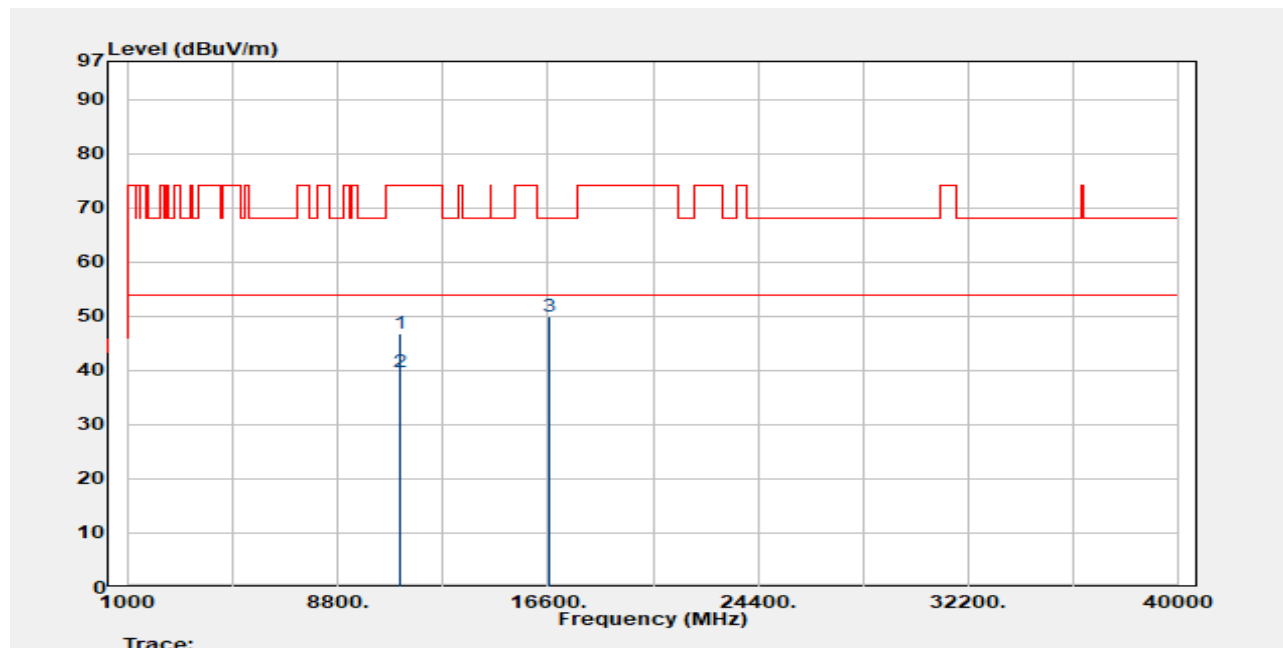
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.000	Peak	38.72	8.19	46.92	74.00	-27.08
11100.000	Average	31.40	8.19	39.59	54.00	-14.41
16650.000	Peak	42.58	7.44	50.02	68.20	-18.18

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5670 MHz

Test Mode :Tx

EUT Pol :H Plane

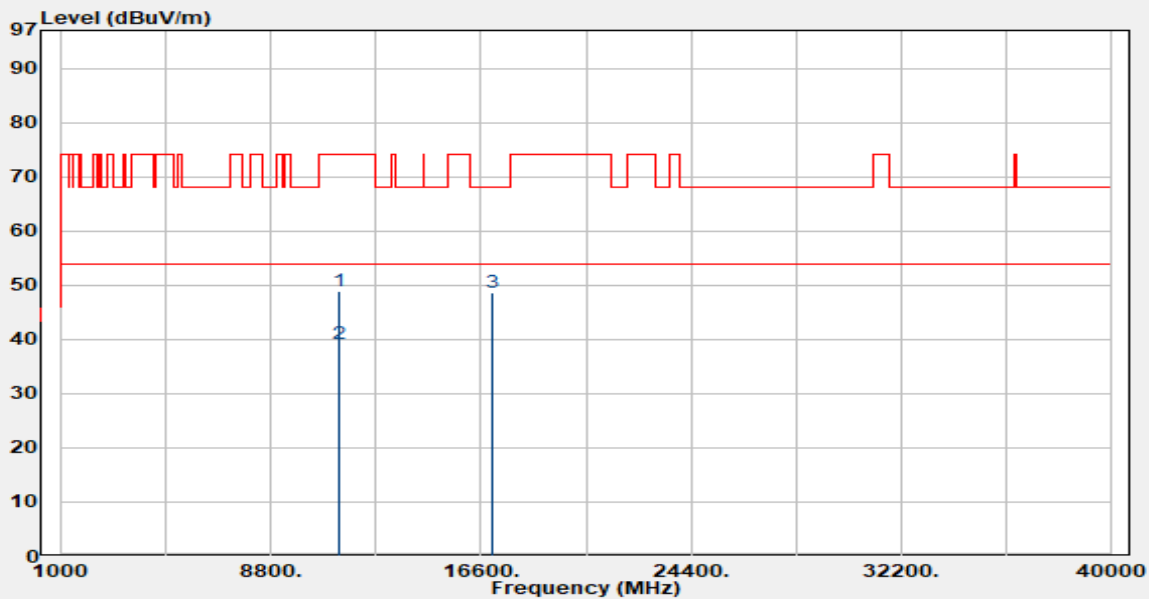
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
11340.000	Peak	40.96	7.87	48.83	74.00	-25.17
11340.000	Average	31.35	7.87	39.22	54.00	-14.78
17010.000	Peak	41.20	7.46	48.67	68.20	-19.53

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5670 MHz

Test Mode :Tx

EUT Pol :H Plane

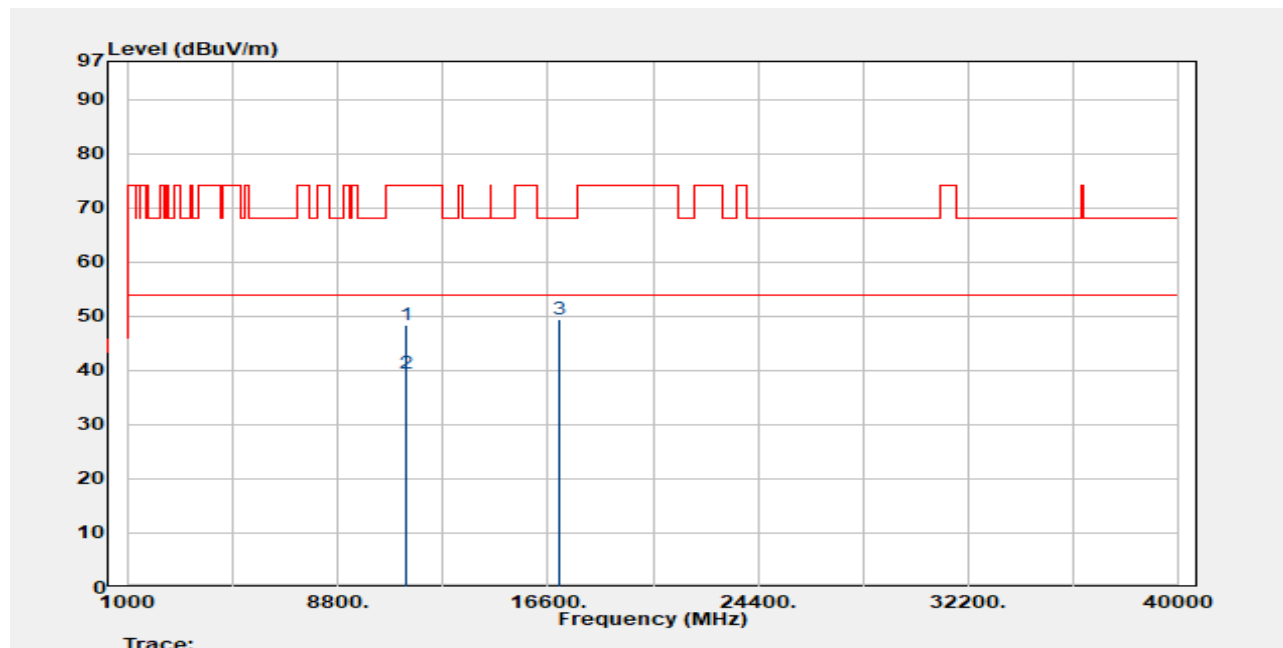
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.000	Peak	40.42	7.87	48.29	74.00	-25.71
11340.000	Average	31.44	7.87	39.31	54.00	-14.69
17010.000	Peak	42.07	7.46	49.53	68.20	-18.67

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5710 MHz

Test Mode :Tx

EUT Pol :H Plane

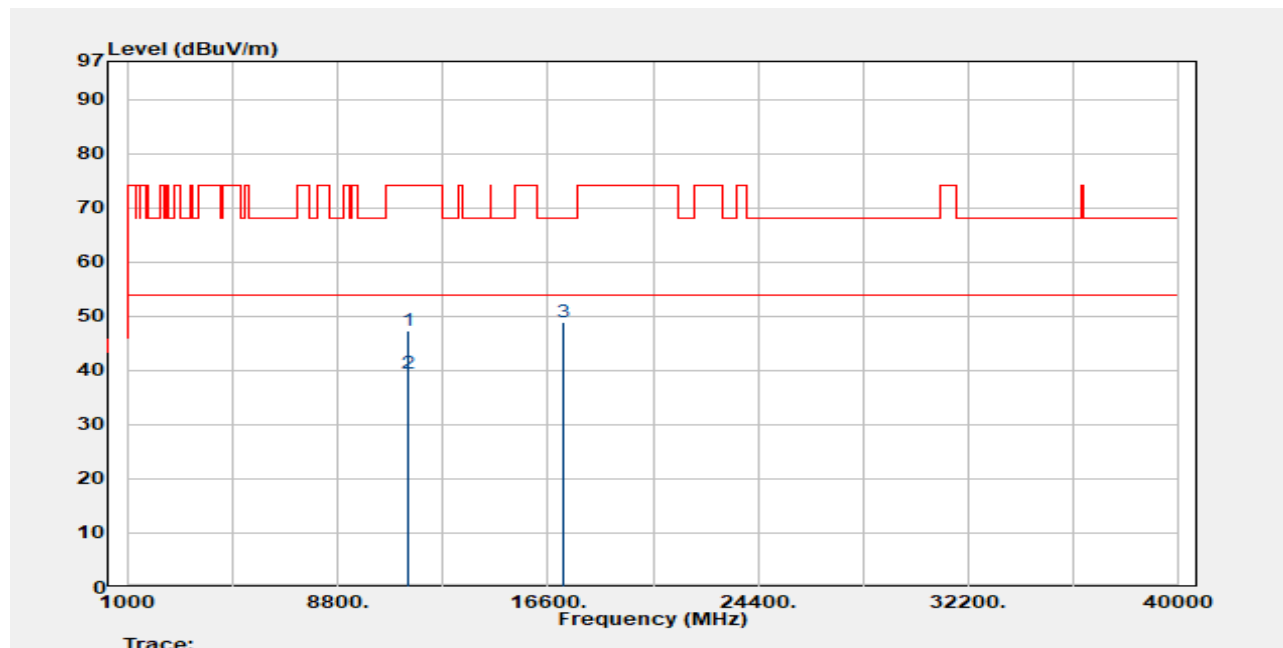
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
11420.000	Peak	39.25	7.99	47.24	74.00	-26.76
11420.000	Average	31.35	7.99	39.34	54.00	-14.66
17130.000	Peak	42.57	6.45	49.02	68.20	-19.18

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5710 MHz

Test Mode :Tx

EUT Pol :H Plane

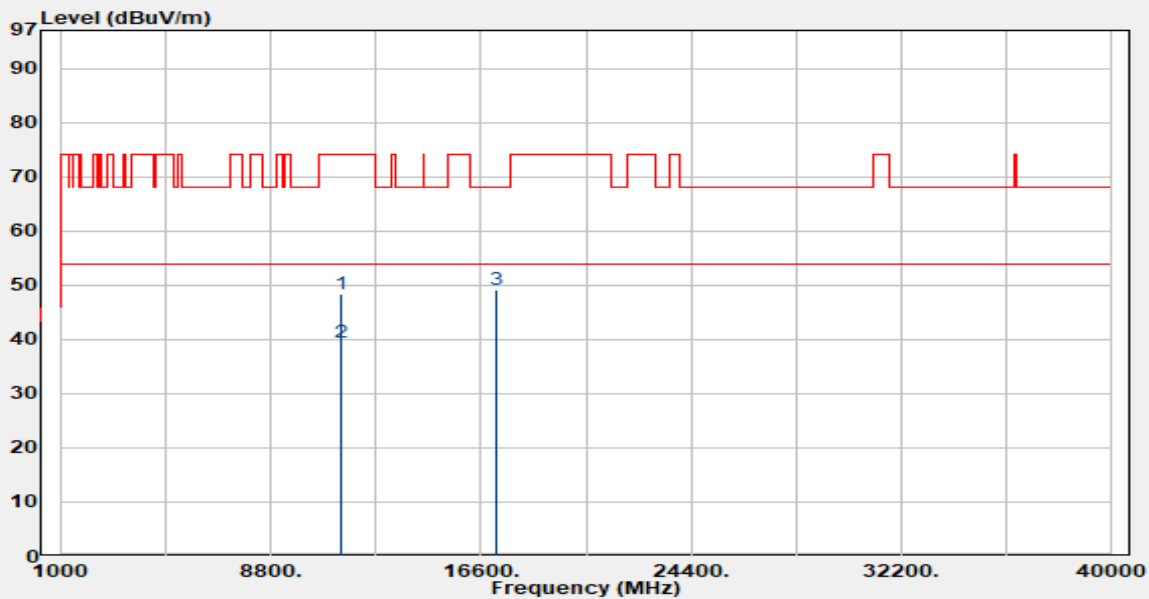
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.000	Peak	40.44	7.99	48.42	74.00	-25.58
11420.000	Average	31.49	7.99	39.48	54.00	-14.52
17130.000	Peak	42.79	6.45	49.25	68.20	-18.95

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5755 MHz

Test Mode :Tx

EUT Pol :H Plane

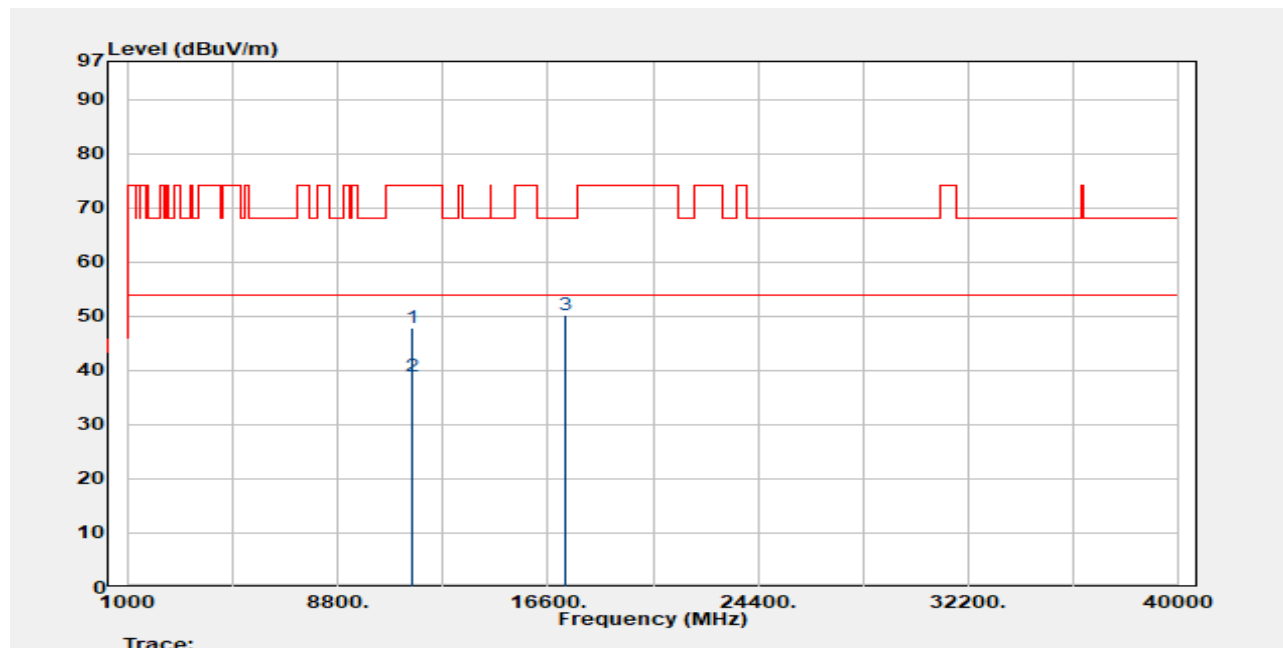
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.000	Peak	39.79	7.99	47.78	74.00	-26.22
11510.000	Average	30.88	7.99	38.87	54.00	-15.13
17265.000	Peak	42.66	7.61	50.27	68.20	-17.93

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5755 MHz

Test Mode :Tx

EUT Pol :H Plane

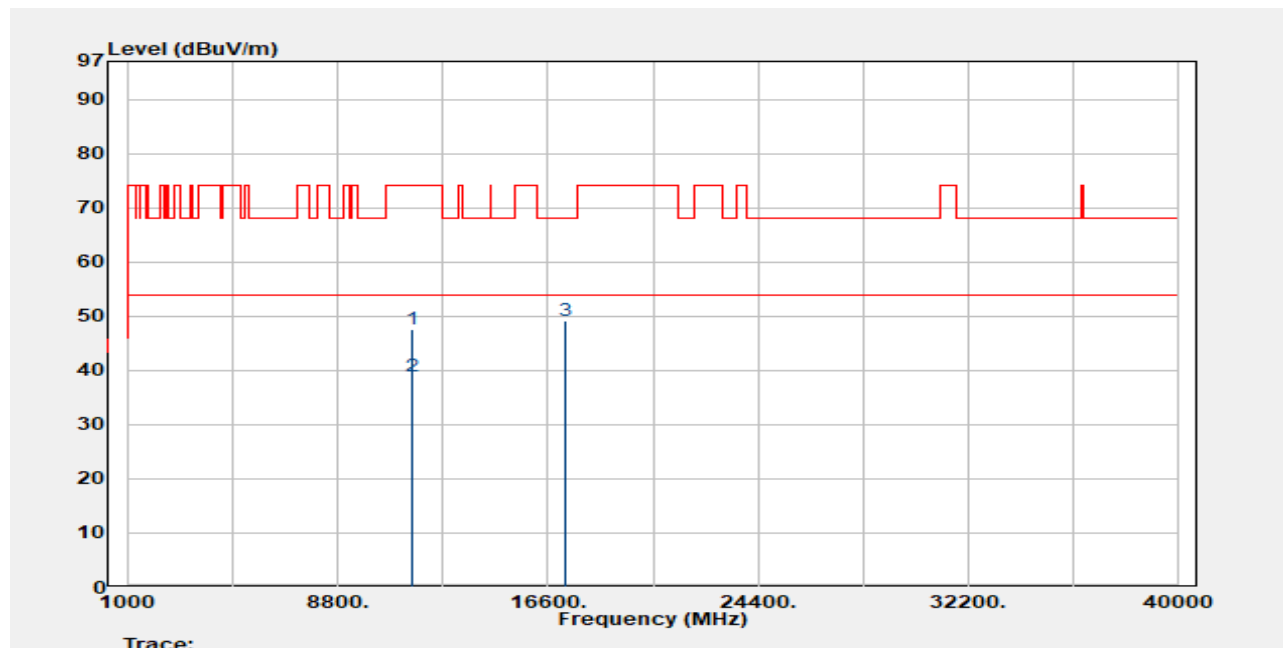
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
11510.000	Peak	39.71	7.99	47.70	74.00	-26.30
11510.000	Average	30.99	7.99	38.98	54.00	-15.02
17265.000	Peak	41.48	7.61	49.09	68.20	-19.11

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5795 MHz

Test Mode :Tx

EUT Pol :H Plane

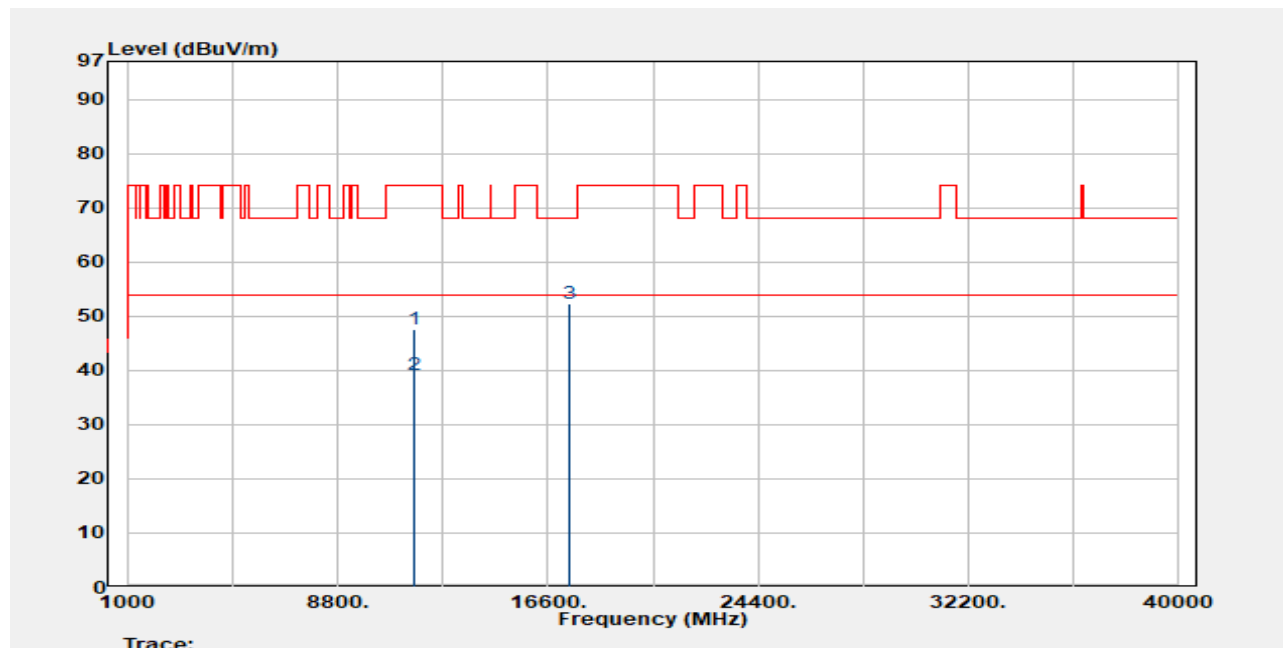
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
11590.000	Peak	39.94	7.66	47.60	74.00	-26.40
11590.000	Average	31.51	7.66	39.17	54.00	-14.83
17385.000	Peak	43.87	8.33	52.20	68.20	-16.00

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5795 MHz

Test Mode :Tx

EUT Pol :H Plane

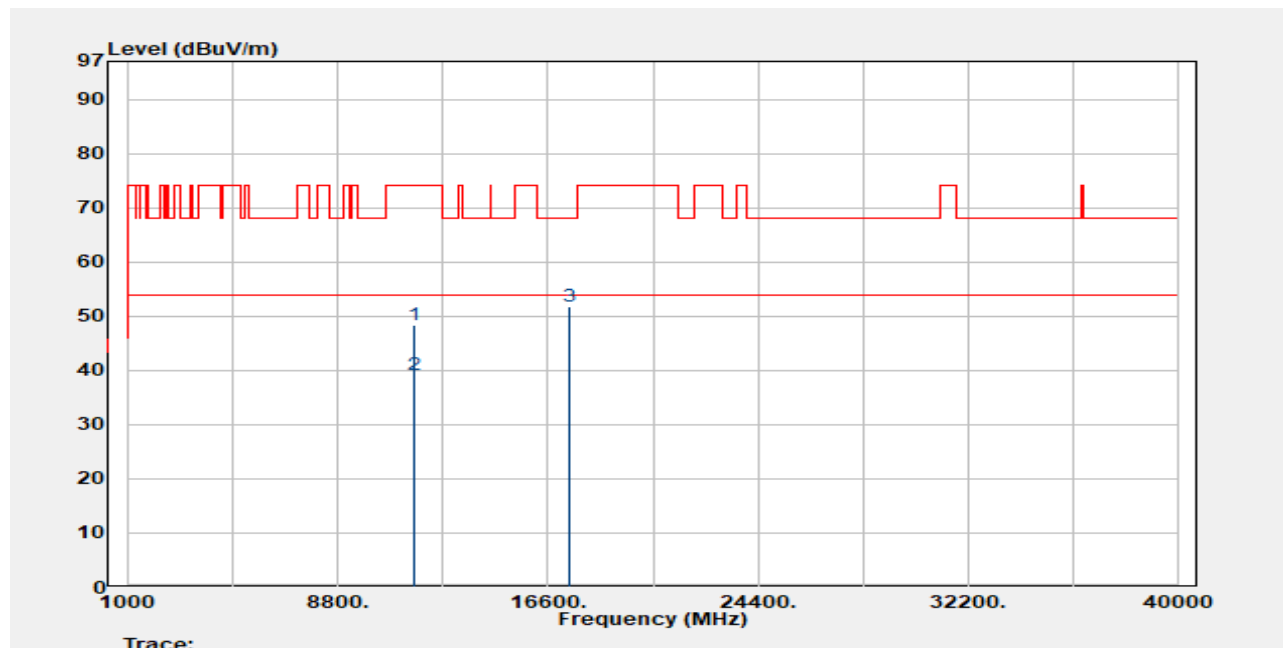
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
11590.000	Peak	40.67	7.66	48.32	74.00	-25.68
11590.000	Average	31.62	7.66	39.28	54.00	-14.72
17385.000	Peak	43.49	8.33	51.82	68.20	-16.38

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5210 MHz

Test Mode :Tx

EUT Pol :H Plane

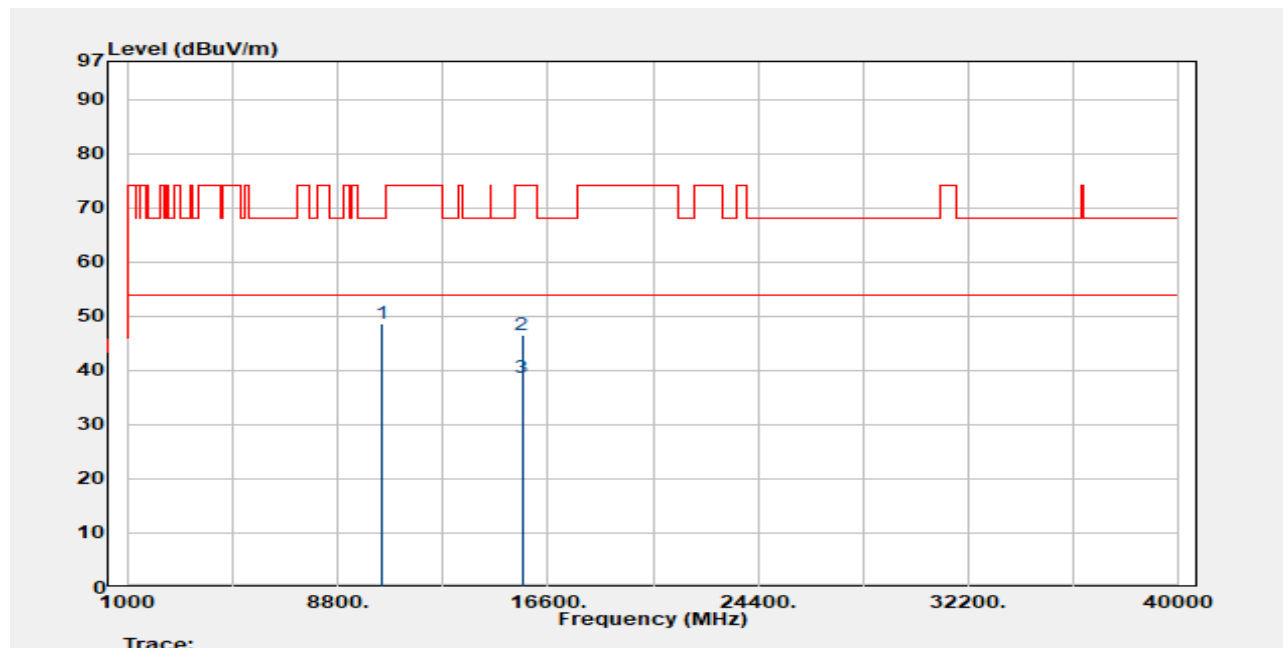
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	40.05	8.50	48.55	68.20	-19.65
15630.000	Peak	40.84	5.59	46.43	74.00	-27.57
15630.000	Average	33.13	5.59	38.72	54.00	-15.28

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5210 MHz

Test Mode :Tx

EUT Pol :H Plane

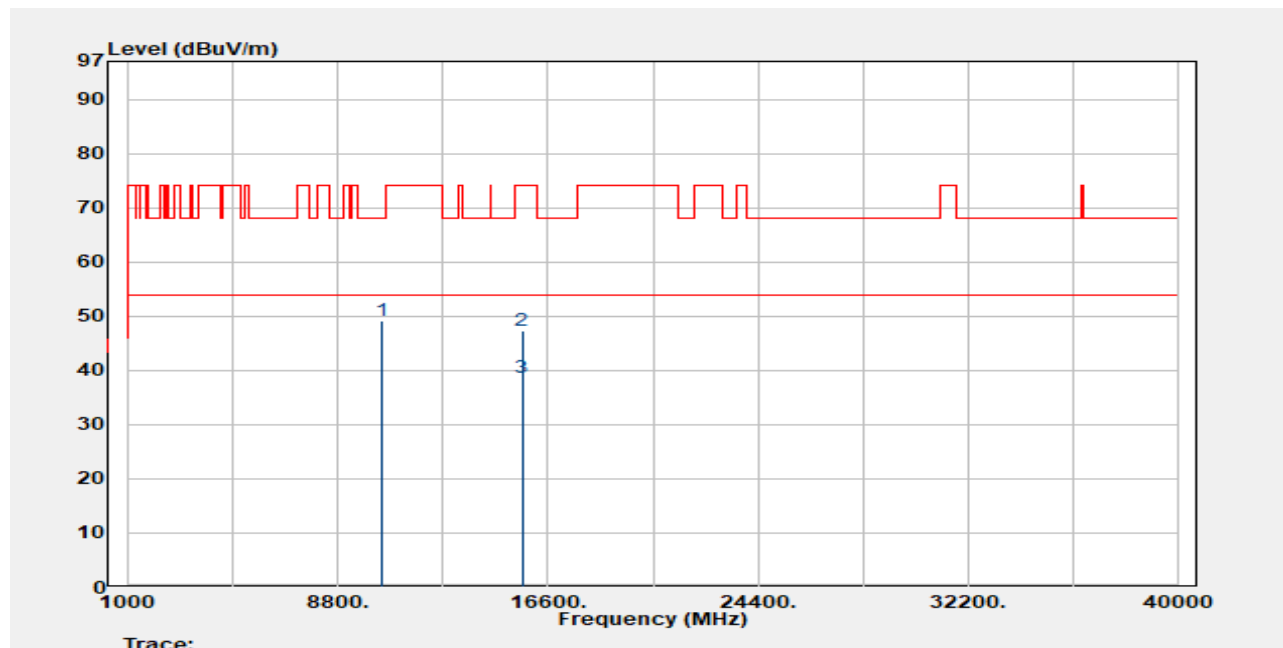
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
10420.000	Peak	40.63	8.50	49.13	68.20	-19.07
15630.000	Peak	41.79	5.59	47.38	74.00	-26.62
15630.000	Average	33.15	5.59	38.74	54.00	-15.26

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5290 MHz

Test Mode :Tx

EUT Pol :H Plane

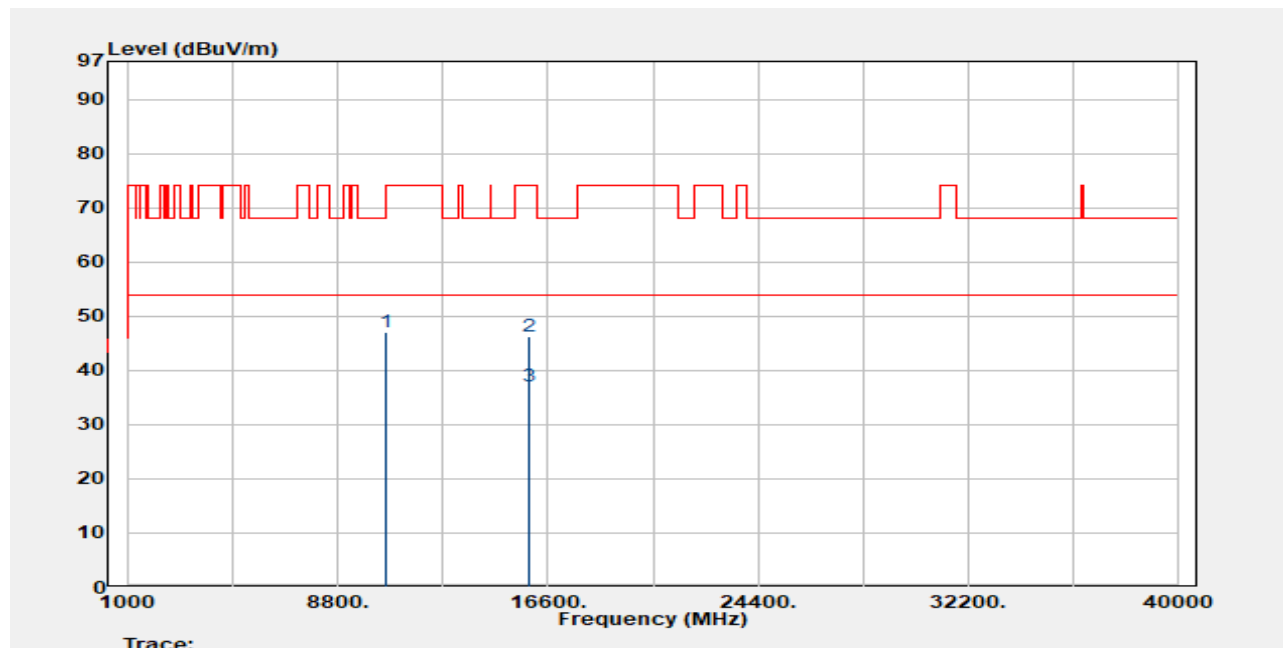
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	39.10	8.07	47.17	68.20	-21.03
15870.000	Peak	41.79	4.50	46.29	74.00	-27.71
15870.000	Average	32.51	4.50	37.01	54.00	-16.99

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5290 MHz

Test Mode :Tx

EUT Pol :H Plane

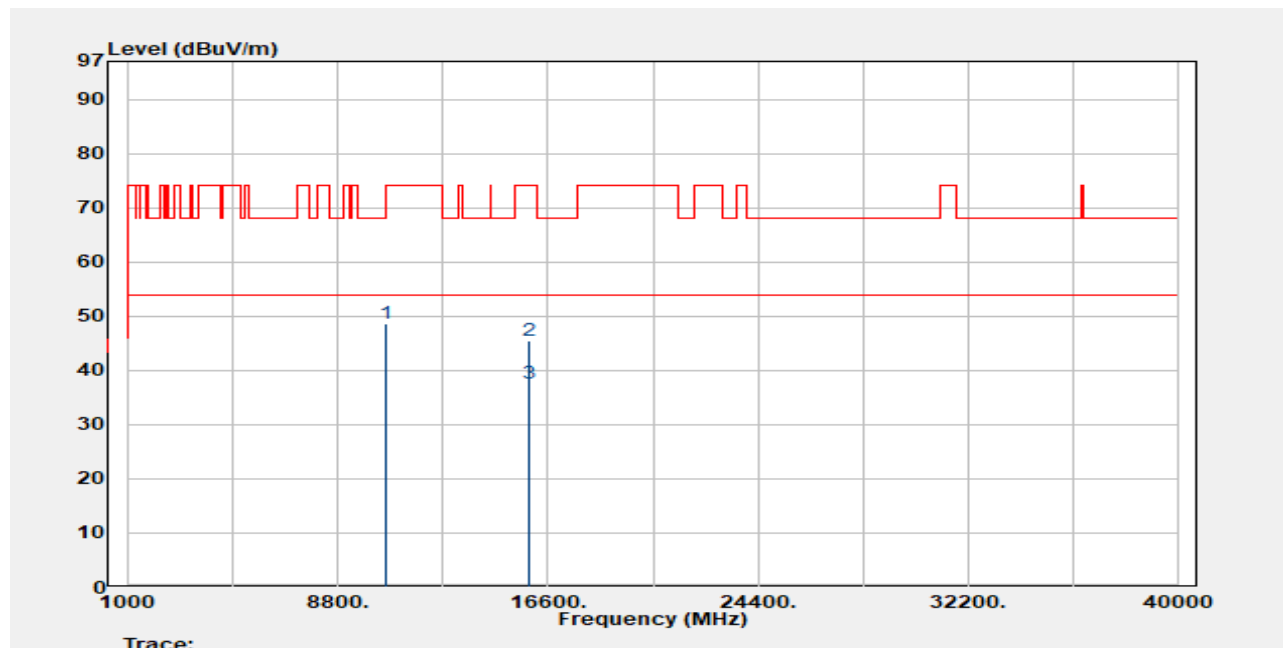
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	40.63	8.07	48.70	68.20	-19.50
15870.000	Peak	41.10	4.50	45.60	74.00	-28.40
15870.000	Average	33.11	4.50	37.61	54.00	-16.39

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5530 MHz

Test Mode :Tx

EUT Pol :H Plane

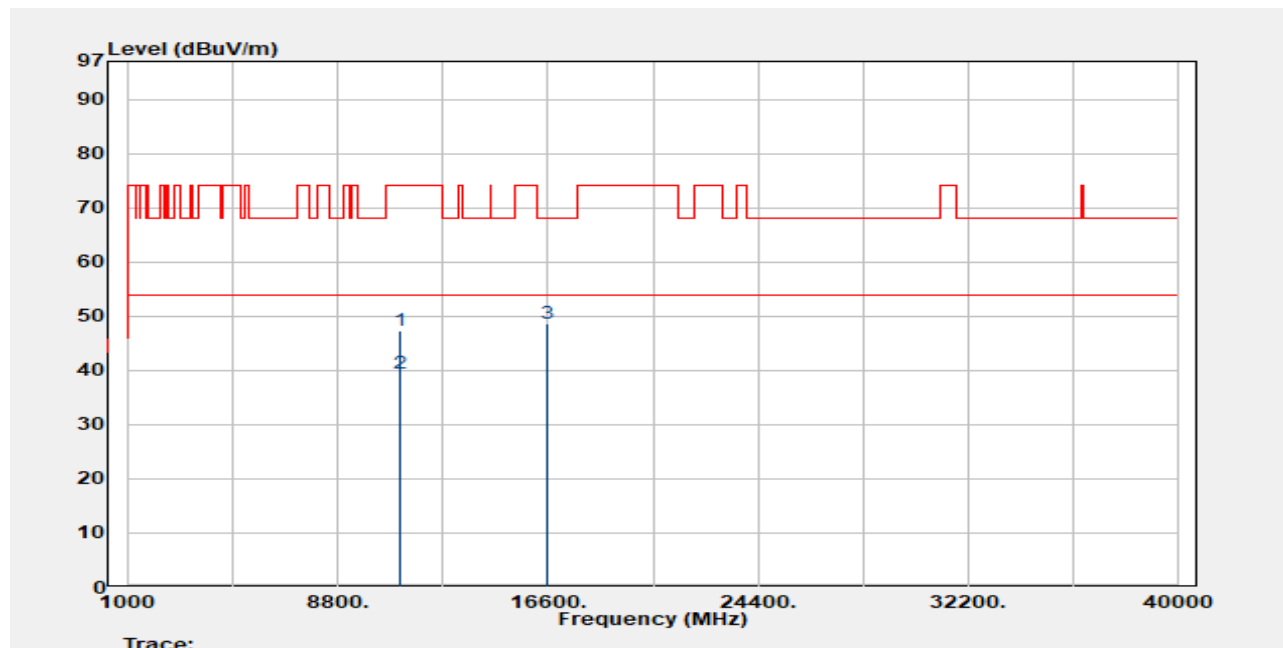
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
11060.000	Peak	39.03	8.25	47.29	74.00	-26.71
11060.000	Average	31.23	8.25	39.48	54.00	-14.52
16590.000	Peak	41.35	7.41	48.76	68.20	-19.44

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5530 MHz

Test Mode :Tx

EUT Pol :H Plane

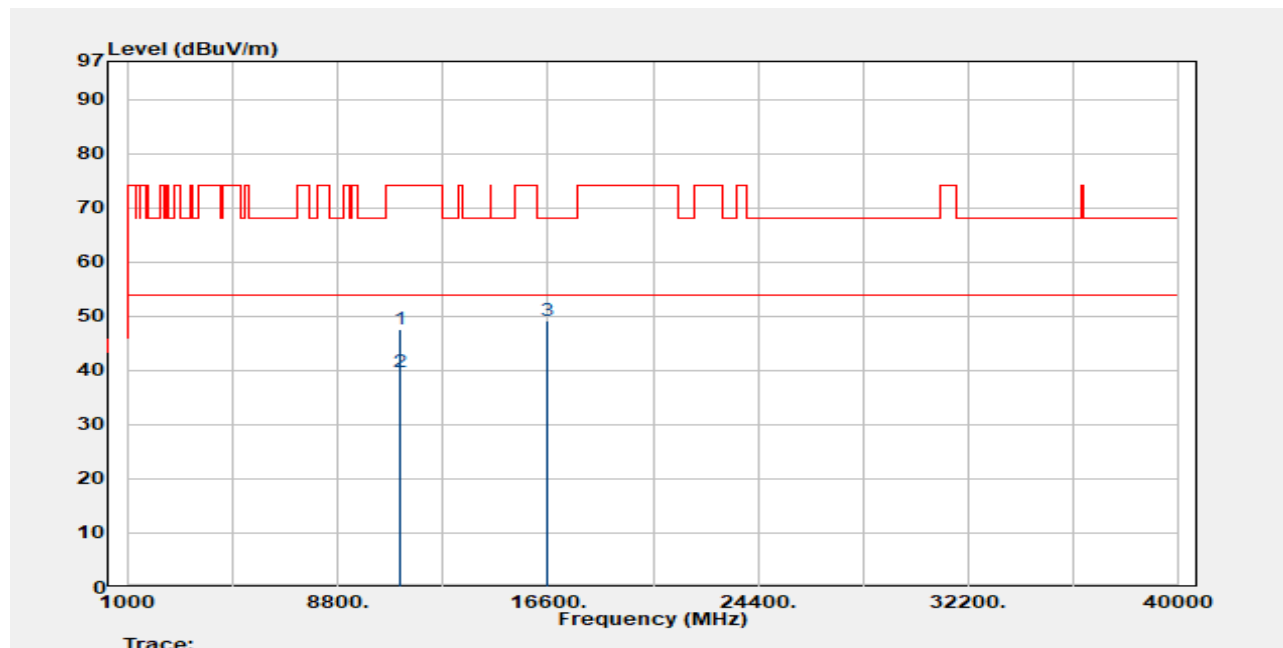
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.000	Peak	39.36	8.25	47.62	74.00	-26.38
11060.000	Average	31.53	8.25	39.78	54.00	-14.22
16590.000	Peak	41.88	7.41	49.28	68.20	-18.92

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5610 MHz

Test Mode :Tx

EUT Pol :H Plane

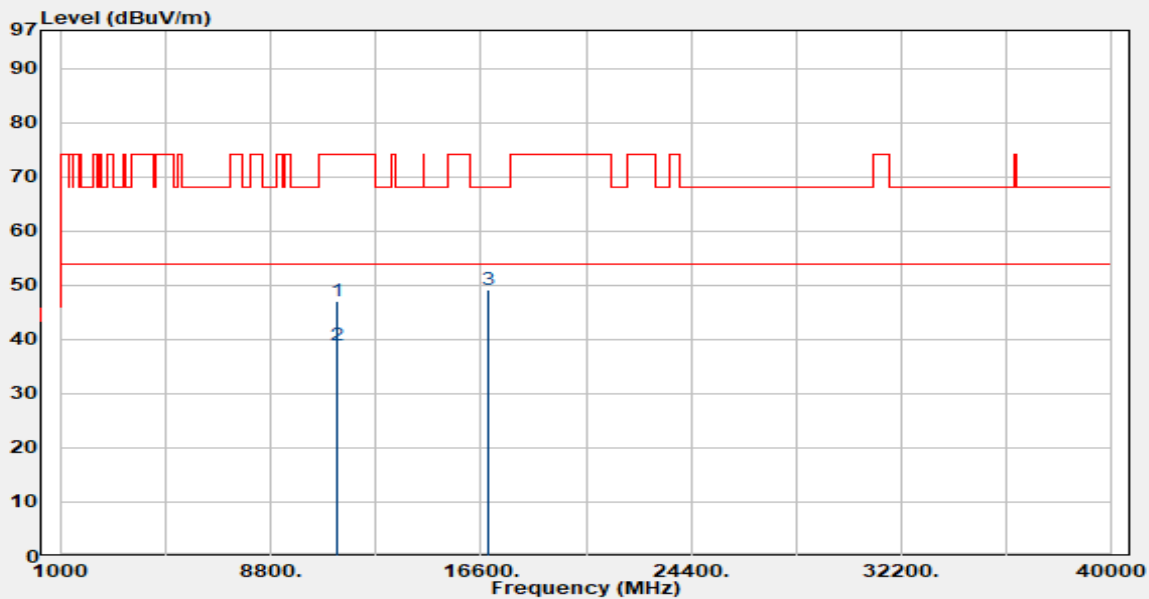
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.000	Peak	39.31	7.87	47.18	74.00	-26.82
11220.000	Average	31.06	7.87	38.93	54.00	-15.07
16830.000	Peak	42.01	7.23	49.25	68.20	-18.95

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5610 MHz

Test Mode :Tx

EUT Pol :H Plane

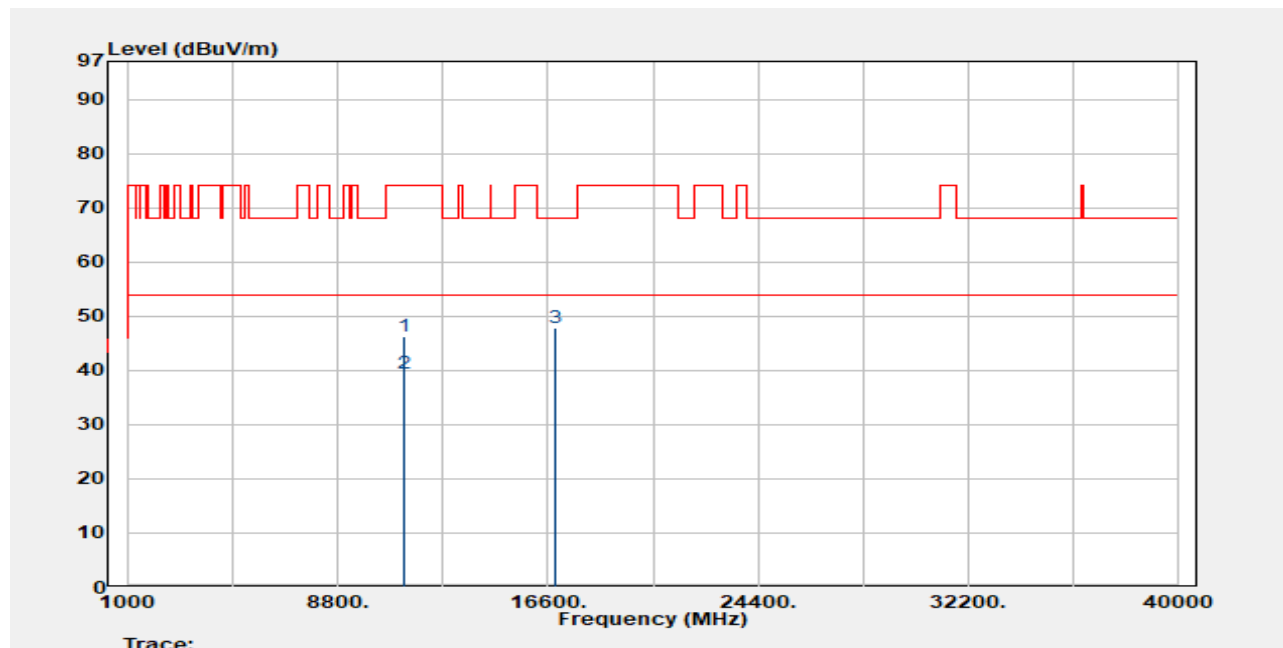
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.000	Peak	38.36	7.87	46.23	74.00	-27.77
11220.000	Average	31.55	7.87	39.42	54.00	-14.58
16830.000	Peak	40.69	7.23	47.93	68.20	-20.27

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5690 MHz

Test Mode :Tx

EUT Pol :H Plane

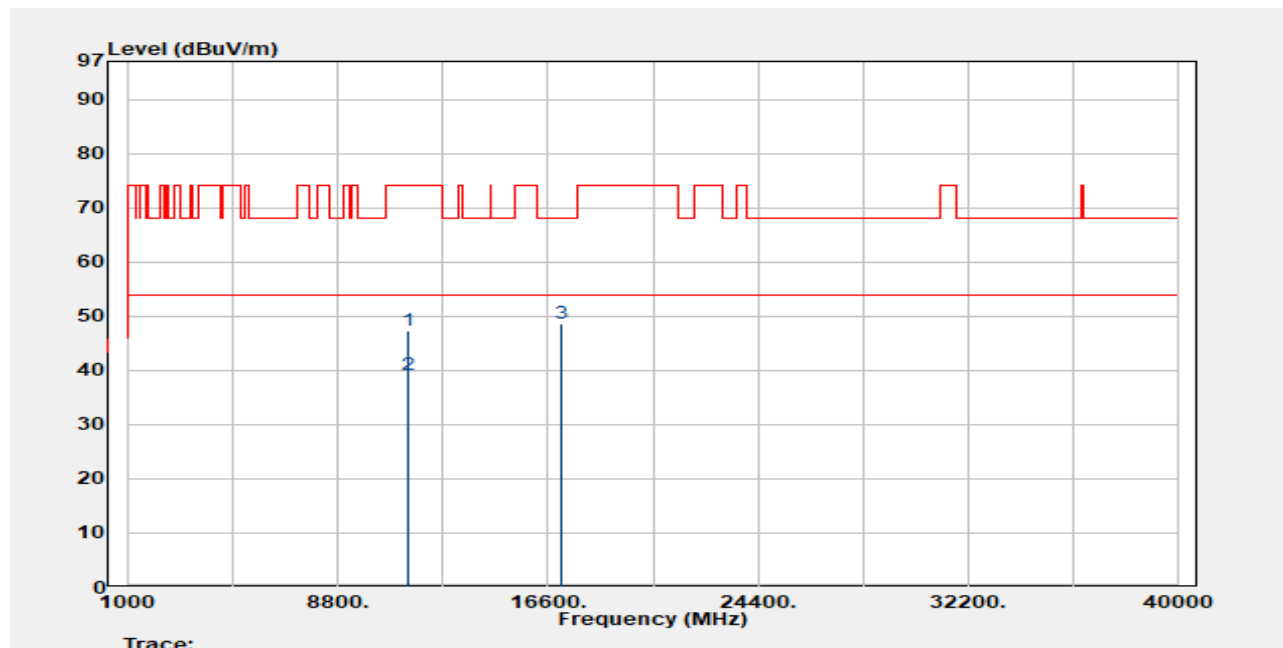
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
11380.000	Peak	39.46	7.94	47.40	74.00	-26.60
11380.000	Average	31.23	7.94	39.17	54.00	-14.83
17070.000	Peak	41.87	6.65	48.52	68.20	-19.68

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5690 MHz

Test Mode :Tx

EUT Pol :H Plane

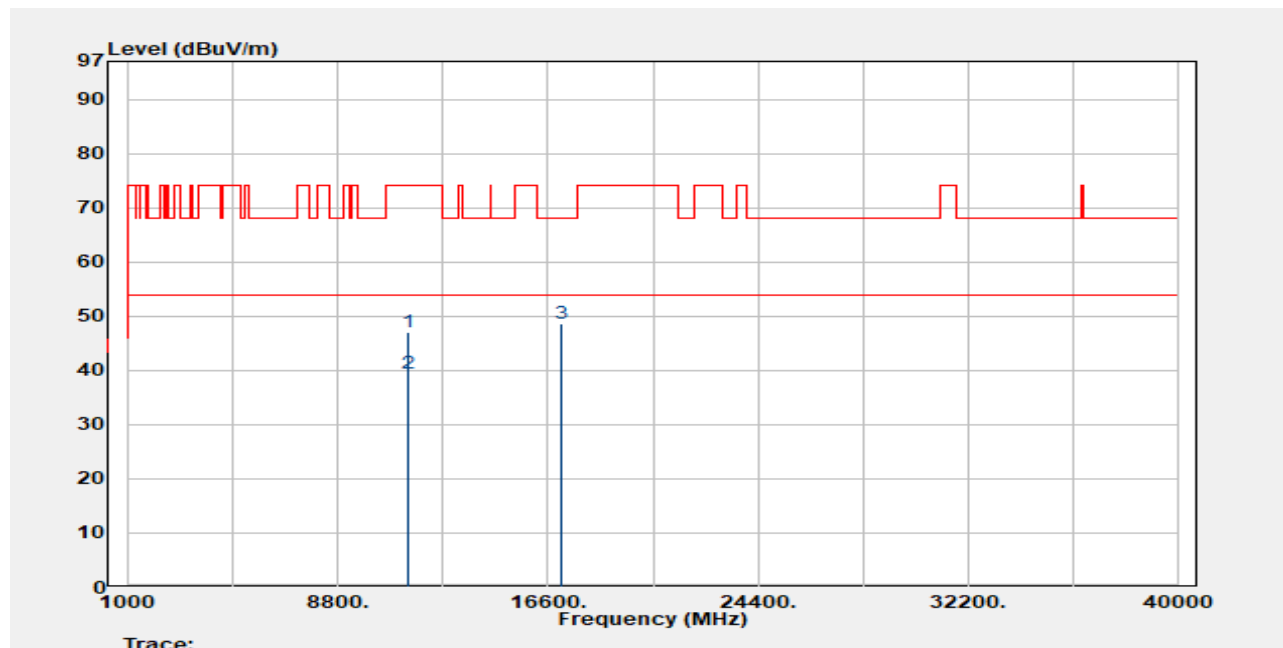
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.000	Peak	39.07	7.94	47.01	74.00	-26.99
11380.000	Average	31.48	7.94	39.42	54.00	-14.58
17070.000	Peak	41.94	6.65	48.59	68.20	-19.61

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5775 MHz

Test Mode :Tx

EUT Pol :H Plane

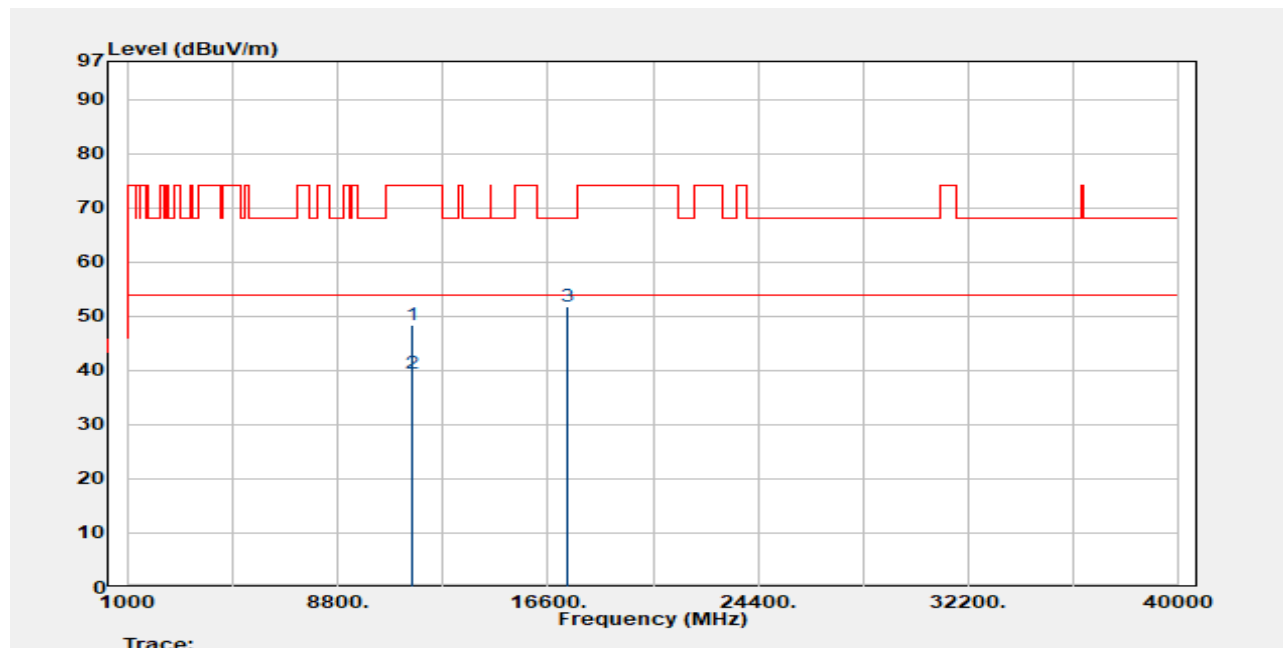
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	Peak	40.65	7.82	48.47	74.00	-25.53
11550.000	Average	31.69	7.82	39.51	54.00	-14.49
17325.000	Peak	43.76	8.08	51.84	68.20	-16.36

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5775 MHz

Test Mode :Tx

EUT Pol :H Plane

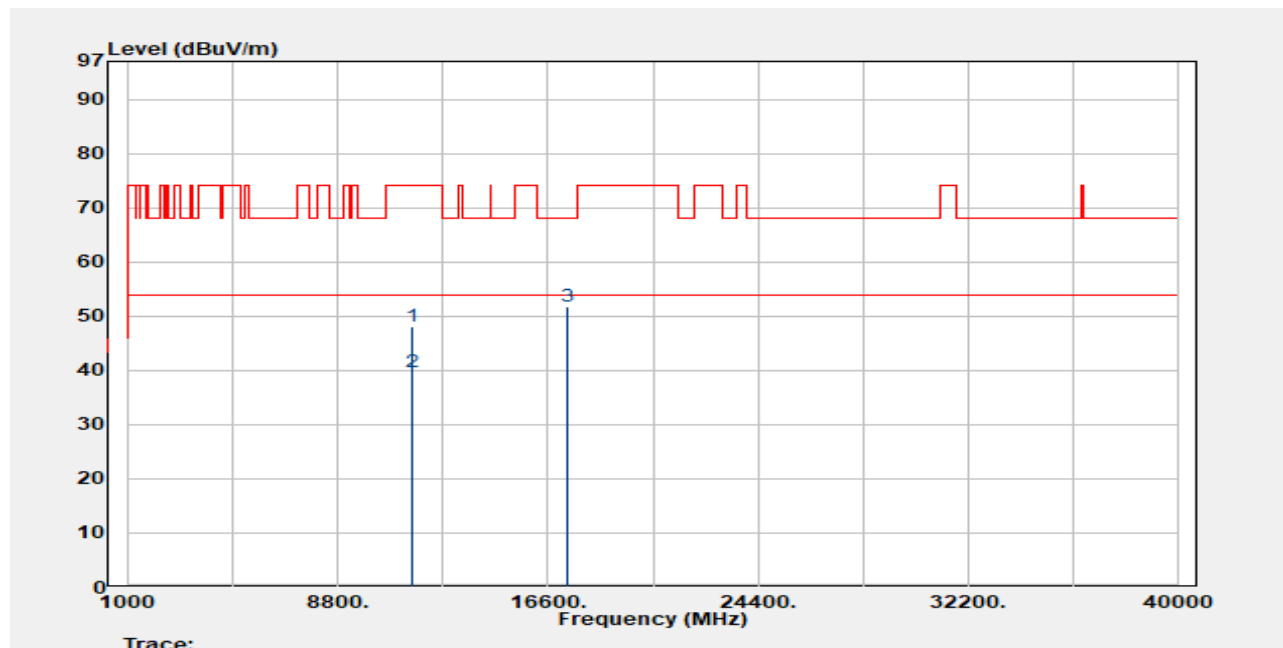
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	Peak	40.25	7.82	48.07	74.00	-25.93
11550.000	Average	31.94	7.82	39.76	54.00	-14.24
17325.000	Peak	43.72	8.08	51.80	68.20	-16.40

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11.6.2 Band edge falling to restricted band

Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5180 MHz

Test Mode :Bandedge

EUT Pol :H Plane

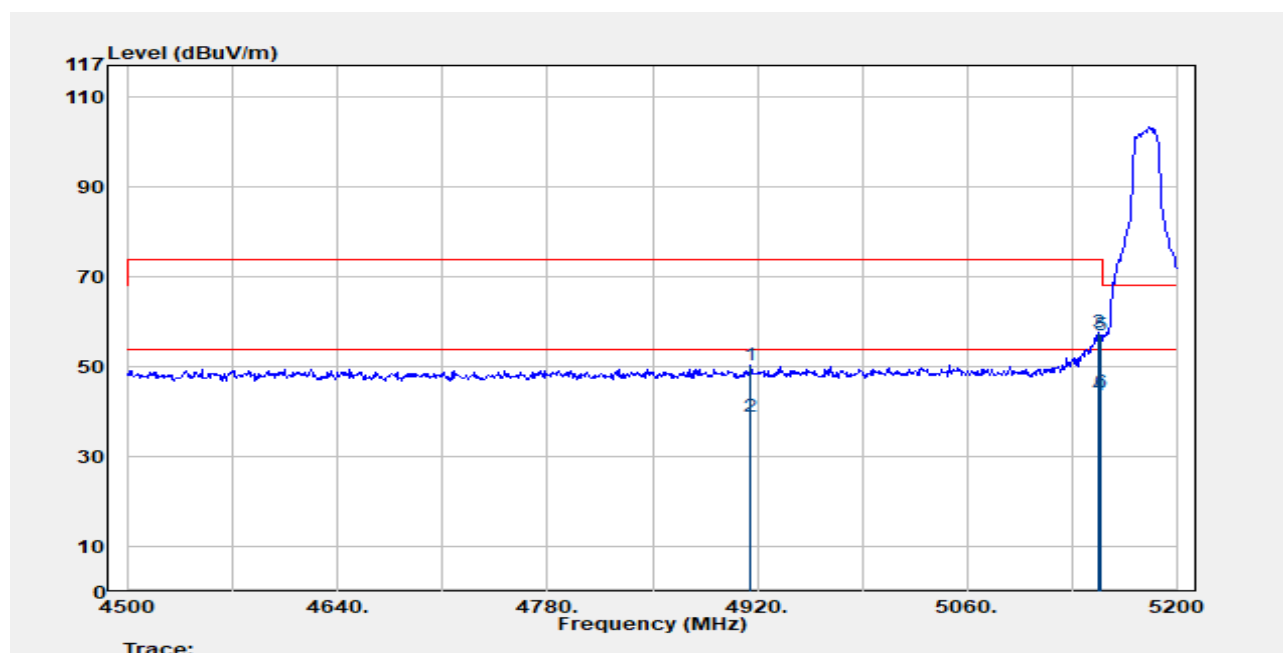
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4915.800	Peak	50.44	-0.10	50.35	74.00	-23.65
4915.800	Average	39.00	-0.10	38.90	54.00	-15.10
5148.200	Peak	56.09	1.74	57.83	74.00	-16.17
5148.200	Average	42.16	1.74	43.90	54.00	-10.10
5150.000	Peak	55.25	1.76	57.01	74.00	-16.99
5150.000	Average	42.71	1.76	44.47	54.00	-9.53

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5180 MHz

Test Mode :Bandedge

EUT Pol :H Plane

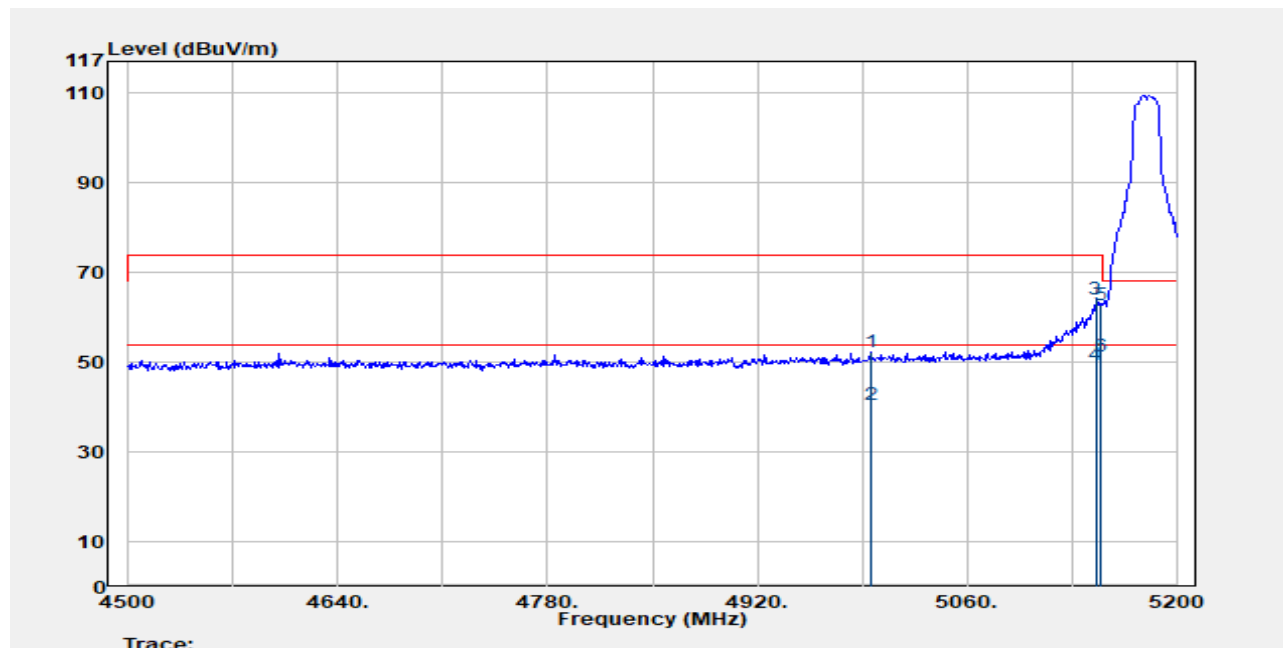
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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
4995.600	Peak	51.69	0.52	52.21	74.00	-21.79
4995.600	Average	40.02	0.52	40.54	54.00	-13.46
5146.100	Peak	62.47	1.72	64.19	74.00	-9.81
5146.100	Average	47.62	1.72	49.34	54.00	-4.66
5150.000	Peak	61.13	1.76	62.89	74.00	-11.11
5150.000	Average	49.70	1.76	51.46	54.00	-2.54

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5320 MHz

Test Mode :Bandedge

EUT Pol :H Plane

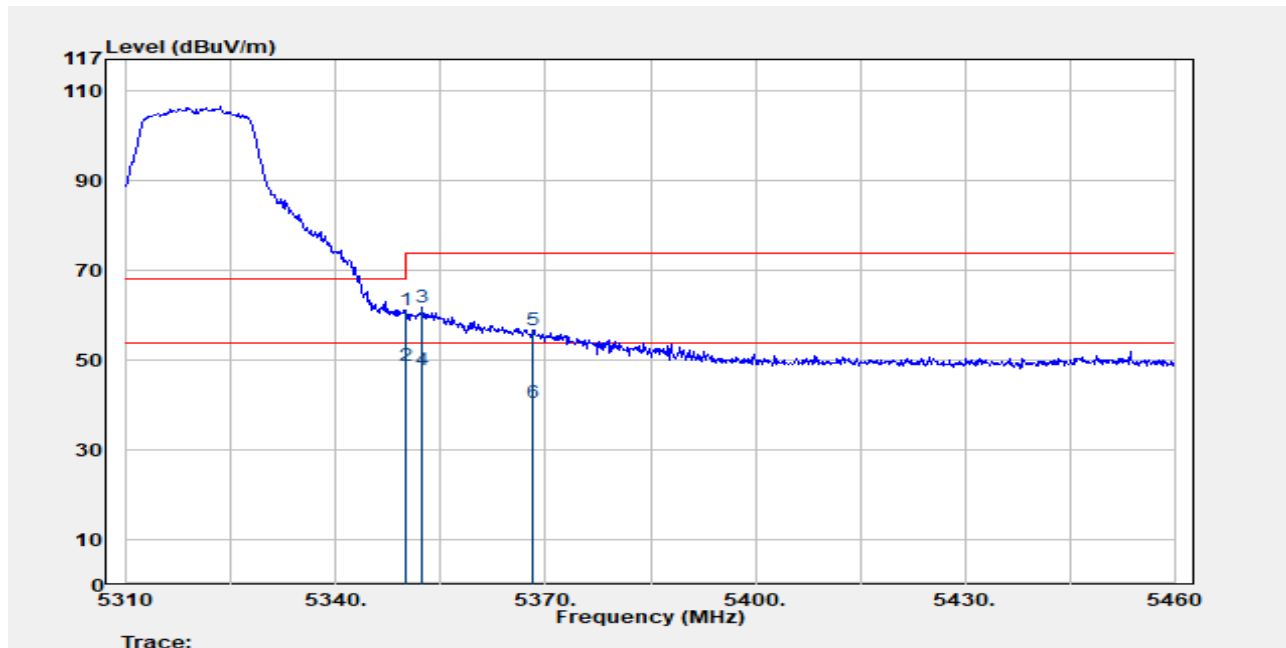
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	Peak	60.35	0.83	61.18	74.00	-12.82
5350.000	Average	47.93	0.83	48.76	54.00	-5.24
5352.300	Peak	61.15	0.83	61.98	74.00	-12.02
5352.300	Average	46.95	0.83	47.78	54.00	-6.22
5368.200	Peak	55.99	0.85	56.85	74.00	-17.15
5368.200	Average	39.63	0.85	40.48	54.00	-13.52

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5320 MHz

Test Mode :Bandedge

EUT Pol :H Plane

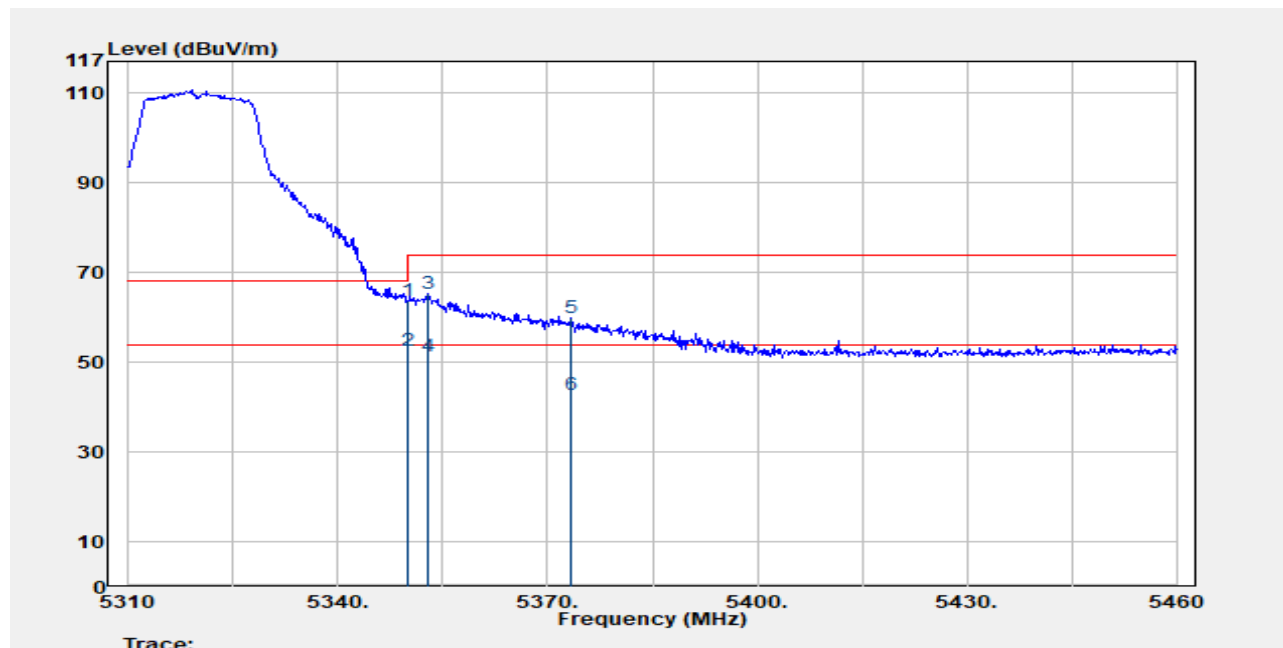
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	Peak	62.86	0.83	63.69	74.00	-10.31
5350.000	Average	51.89	0.83	52.72	54.00	-1.28
5352.750	Peak	64.45	0.83	65.28	74.00	-8.72
5352.750	Average	50.53	0.83	51.36	54.00	-2.64
5373.300	Peak	58.92	0.86	59.78	74.00	-14.22
5373.300	Average	42.07	0.86	42.93	54.00	-11.07

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5500 MHz

Test Mode :Bandedge

EUT Pol :H Plane

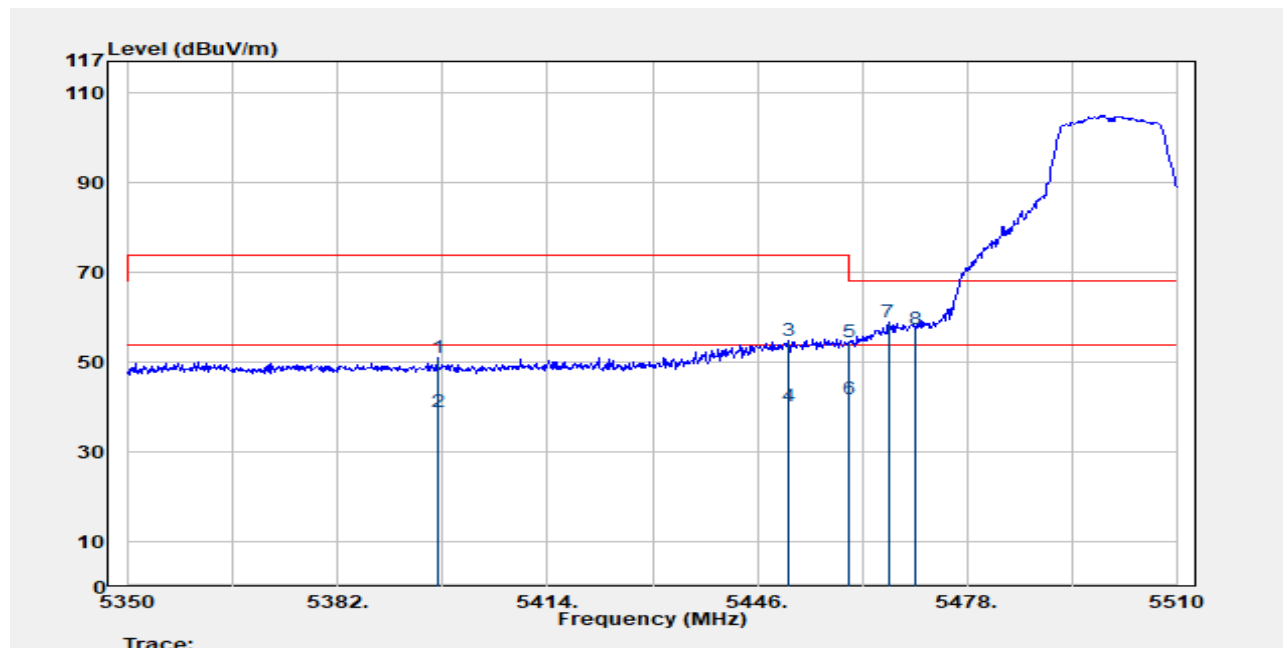
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5397.200	Peak	50.20	0.90	51.10	74.00	-22.90
5397.200	Average	38.25	0.90	39.15	54.00	-14.85
5450.640	Peak	53.77	1.22	54.99	74.00	-19.01
5450.640	Average	39.02	1.22	40.24	54.00	-13.76
5460.000	Peak	53.39	1.26	54.65	74.00	-19.35
5460.000	Average	40.44	1.26	41.70	54.00	-12.30
5466.000	Peak	57.71	1.29	59.00	68.20	-9.20
5470.000	Peak	56.19	1.31	57.50	68.20	-10.70

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5500 MHz

Test Mode :Bandedge

EUT Pol :H Plane

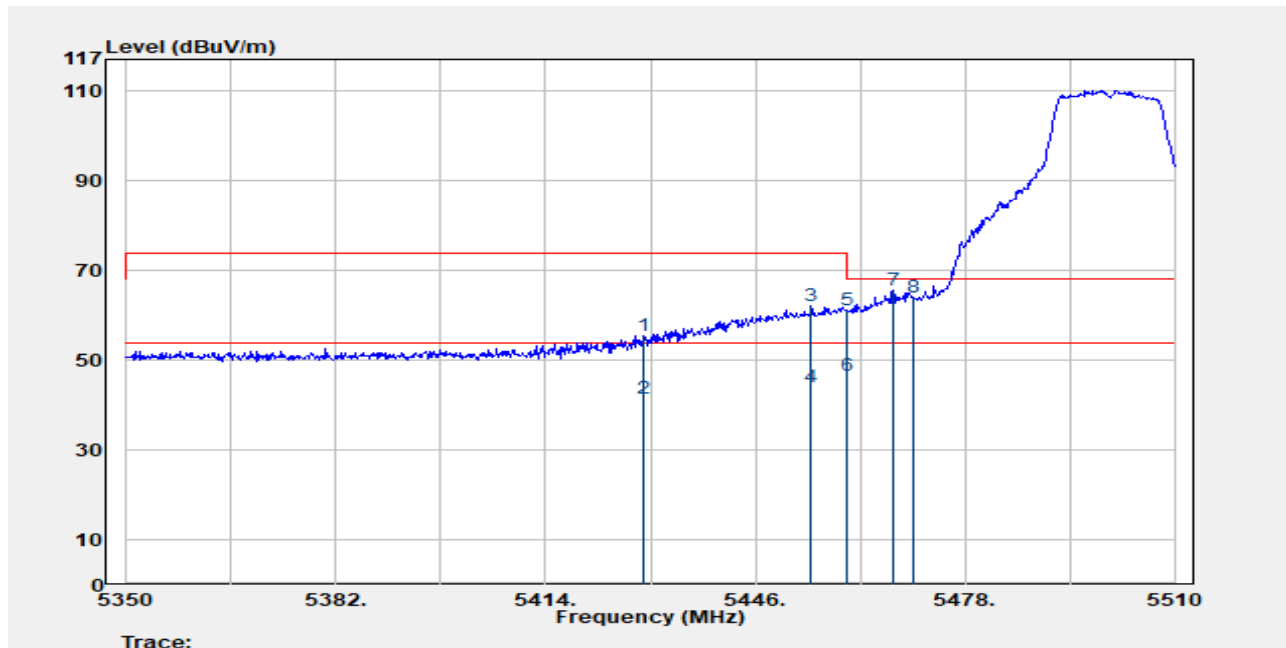
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5429.040	Peak	54.53	1.09	55.62	74.00	-18.38
5429.040	Average	40.38	1.09	41.47	54.00	-12.53
5454.480	Peak	60.93	1.24	62.17	74.00	-11.83
5454.480	Average	42.75	1.24	43.99	54.00	-10.01
5460.000	Peak	59.91	1.26	61.17	74.00	-12.83
5460.000	Average	45.46	1.26	46.72	54.00	-7.28
5467.120	Peak	64.37	1.30	65.67	68.20	-2.53
5470.000	Peak	62.63	1.31	63.94	68.20	-4.26

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5700 MHz

Test Mode :Bandedge

EUT Pol :H Plane

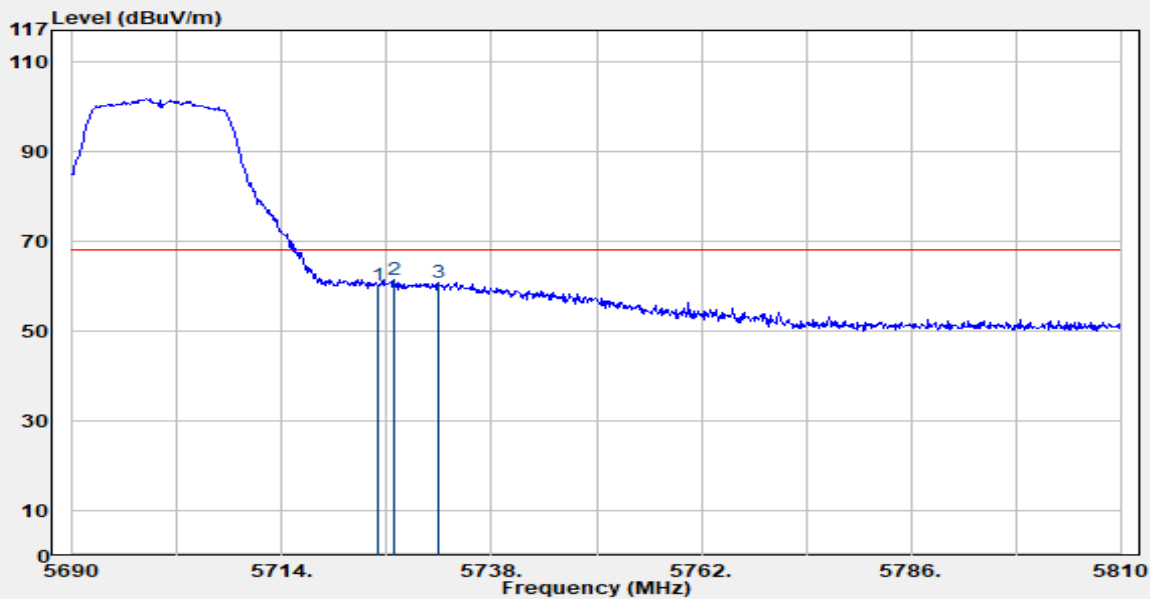
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.000	Peak	57.56	2.57	60.13	68.20	-8.07
5726.840	Peak	58.82	2.58	61.40	68.20	-6.80
5731.880	Peak	58.21	2.60	60.82	68.20	-7.38

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5700 MHz

Test Mode :Bandedge

EUT Pol :H Plane

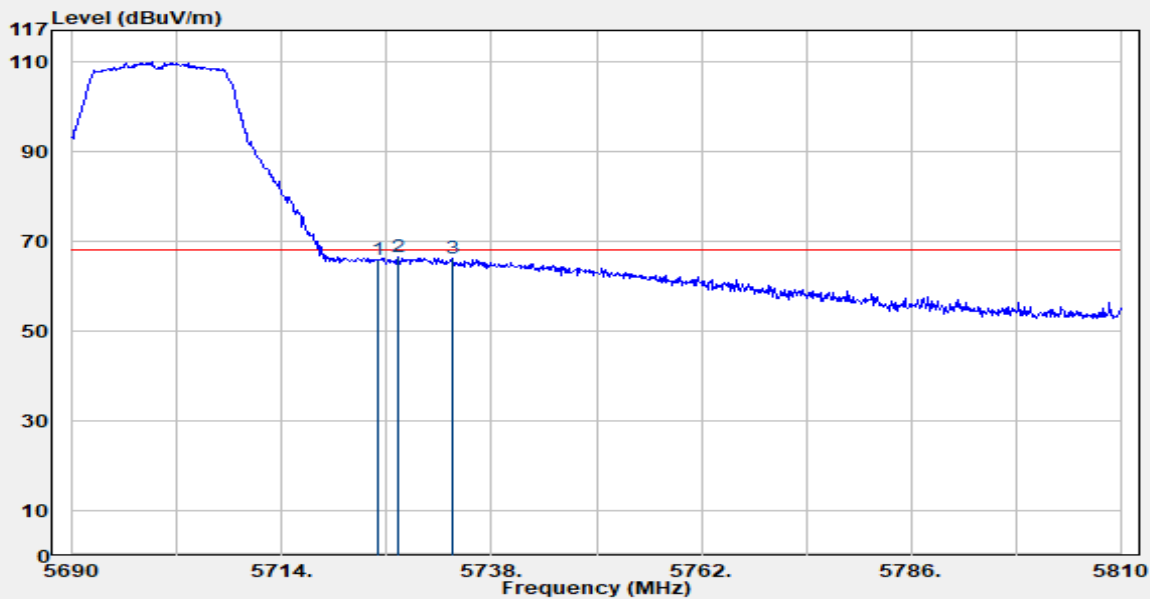
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	63.43	2.57	66.00	68.20	-2.20
5727.200	Peak	63.90	2.58	66.49	68.20	-1.71
5733.440	Peak	63.76	2.61	66.37	68.20	-1.83

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5720 MHz

Test Mode :Bandedge

EUT Pol :H Plane

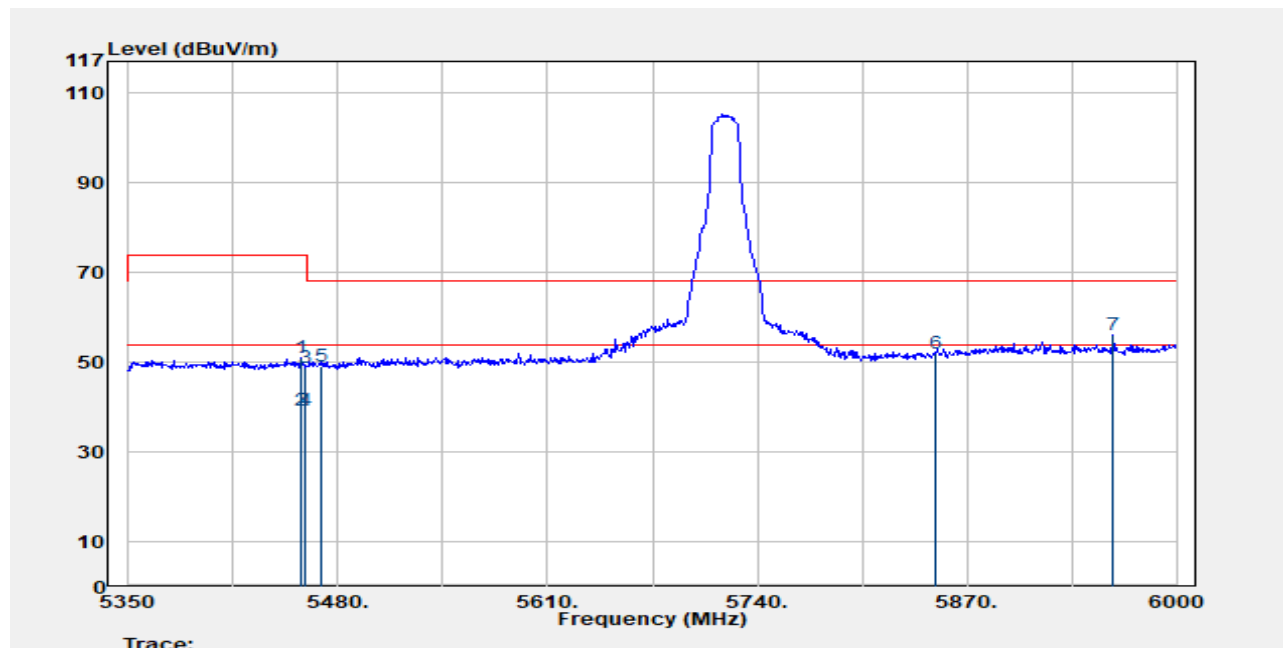
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5456.600	Peak	49.83	1.25	51.08	74.00	-22.92
5456.600	Average	38.11	1.25	39.36	54.00	-14.64
5460.000	Peak	47.57	1.26	48.84	74.00	-25.16
5460.000	Average	38.00	1.26	39.26	54.00	-14.74
5470.000	Peak	47.98	1.31	49.29	68.20	-18.91
5850.000	Peak	48.42	3.49	51.90	68.20	-16.30
5961.000	Peak	51.66	4.31	55.98	68.20	-12.22

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5720 MHz

Test Mode :Bandedge

EUT Pol :H Plane

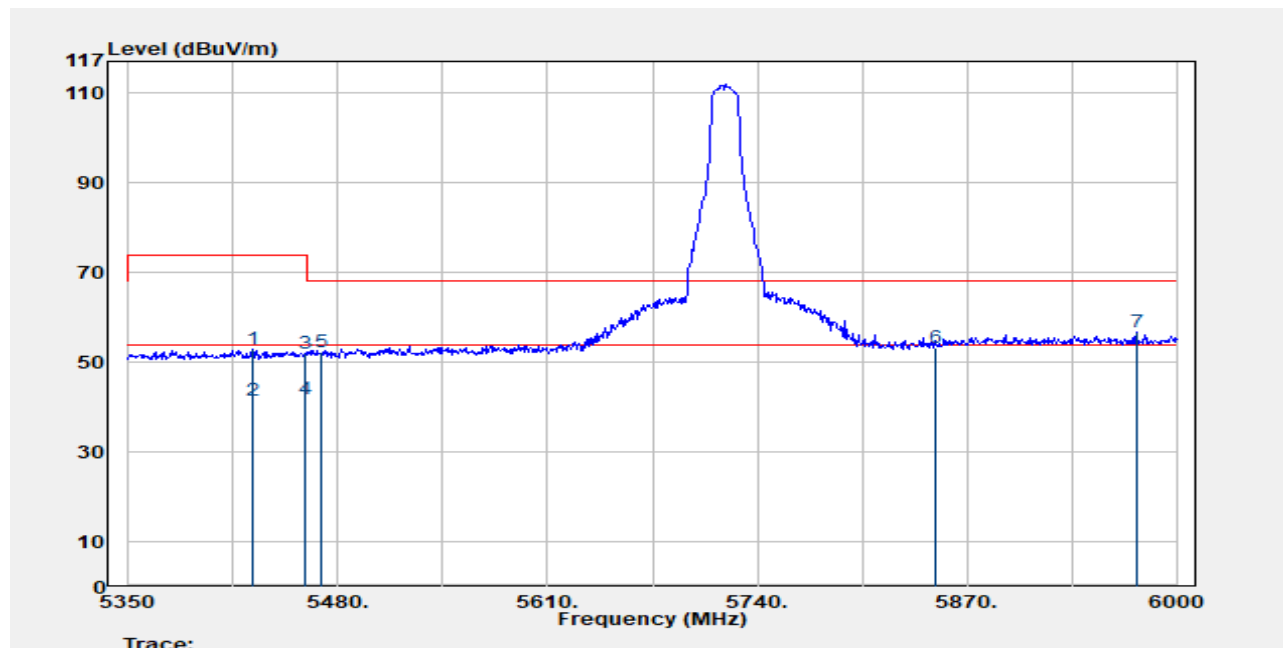
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5426.700	Peak	51.86	1.07	52.93	74.00	-21.07
5426.700	Average	40.36	1.07	41.43	54.00	-12.57
5460.000	Peak	50.67	1.26	51.94	74.00	-22.06
5460.000	Average	40.62	1.26	41.88	54.00	-12.12
5470.000	Peak	51.13	1.31	52.44	68.20	-15.76
5850.000	Peak	49.88	3.49	53.36	68.20	-14.84
5975.300	Peak	52.38	4.38	56.75	68.20	-11.45

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5745 MHz

Test Mode :Bandedge

EUT Pol :H Plane

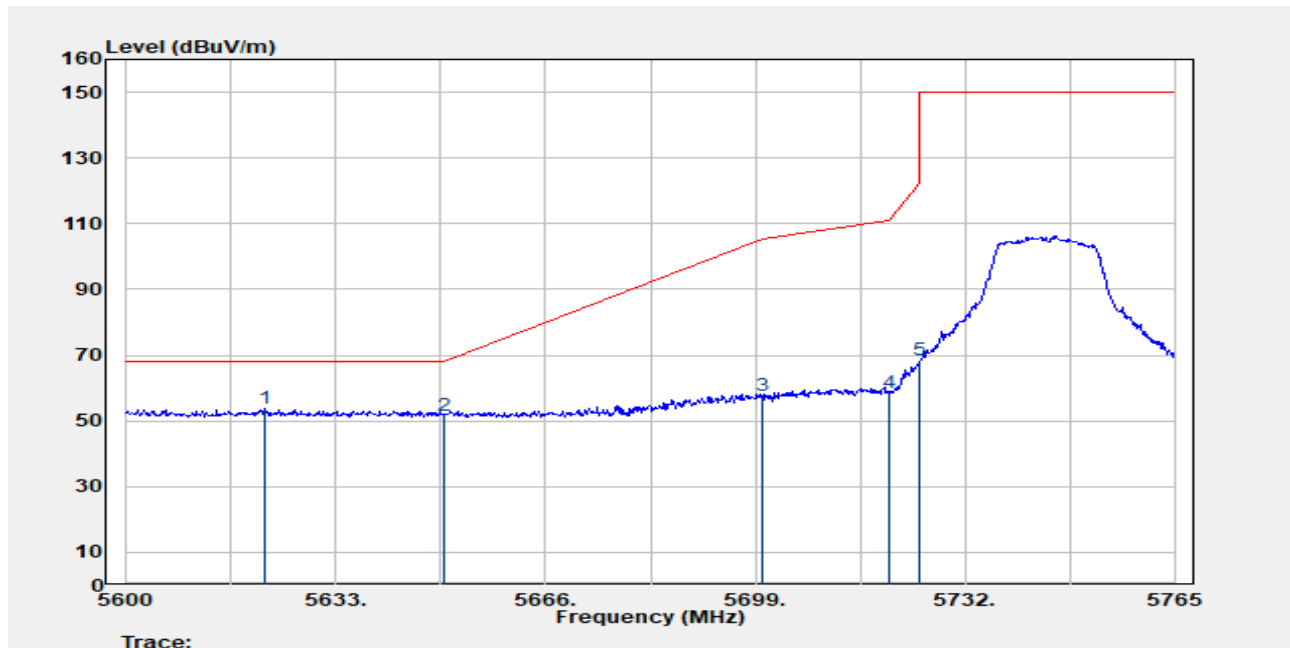
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5621.615	Peak	51.61	2.12	53.74	68.20	-14.46
5650.000	Peak	49.54	2.17	51.71	68.20	-16.49
5700.000	Peak	55.40	2.45	57.85	105.20	-47.35
5720.000	Peak	56.20	2.55	58.74	110.80	-52.06
5725.000	Peak	66.08	2.57	68.65	122.20	-53.55

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5745 MHz

Test Mode :Bandedge

EUT Pol :H Plane

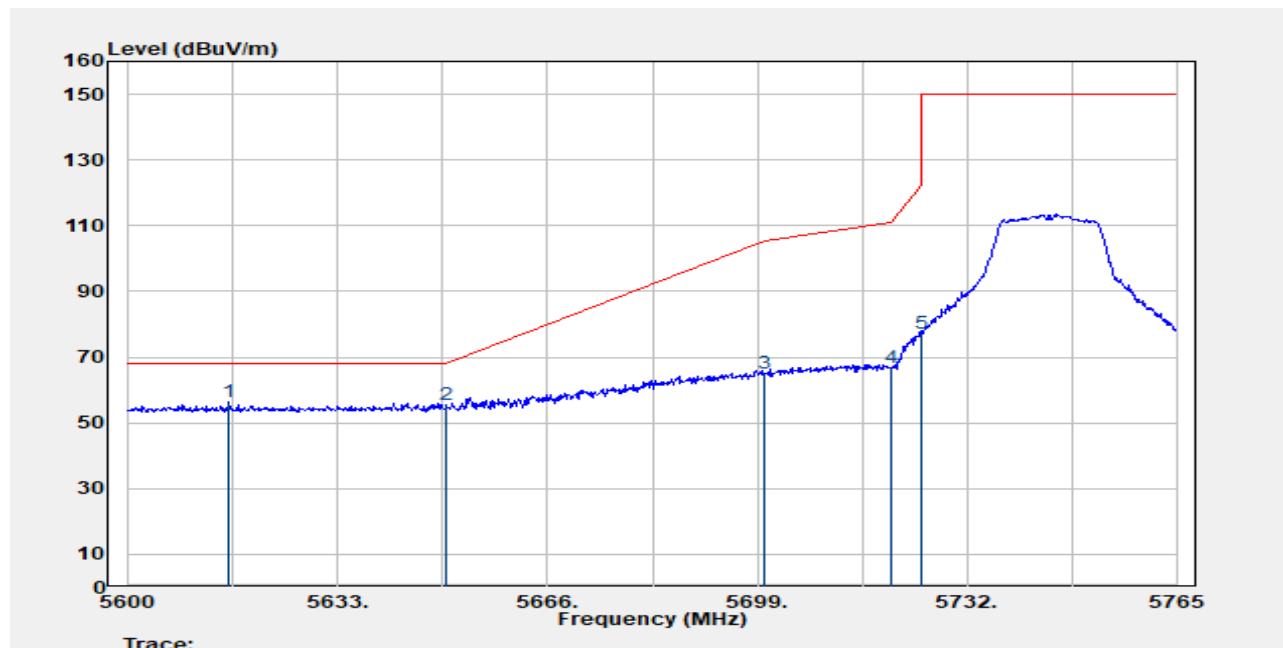
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5615.840	Peak	54.19	2.12	56.30	68.20	-11.90
5650.000	Peak	53.45	2.17	55.63	68.20	-12.57
5700.000	Peak	62.43	2.45	64.88	105.20	-40.32
5720.000	Peak	64.26	2.55	66.81	110.80	-43.99
5725.000	Peak	74.46	2.57	77.03	122.20	-45.17

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5825 MHz

Test Mode :Bandedge

EUT Pol :H Plane

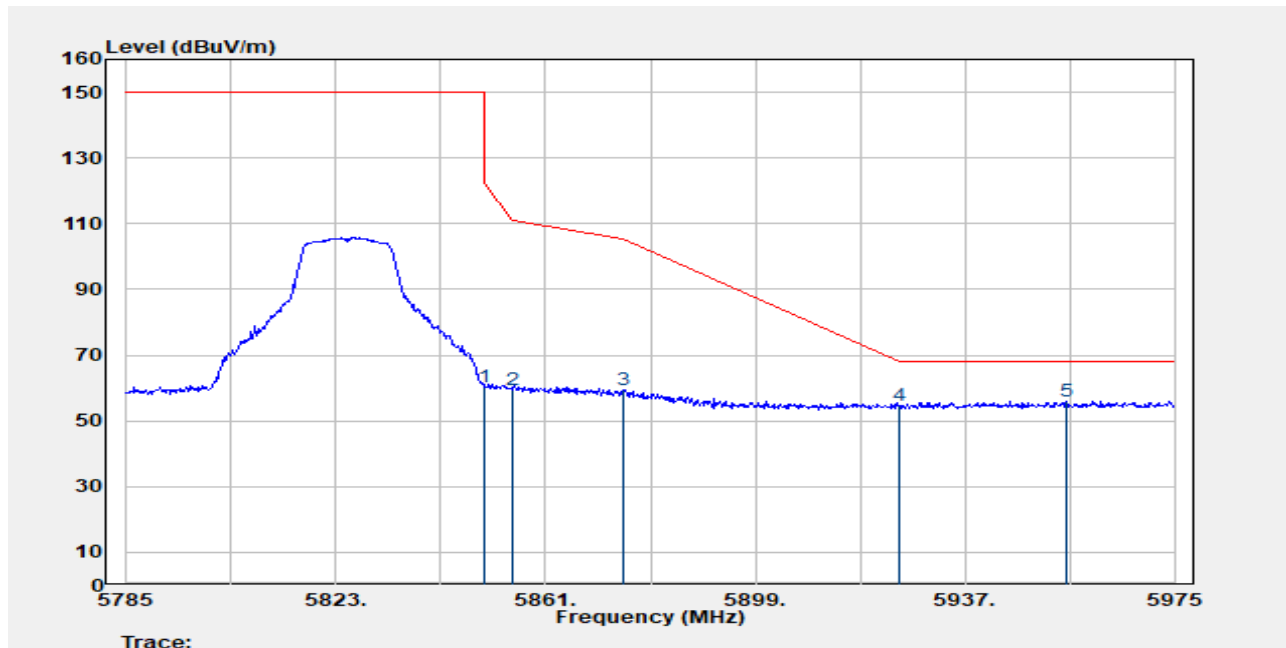
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	56.93	3.49	60.42	122.20	-61.78
5855.000	Peak	55.79	3.55	59.34	110.80	-51.46
5875.000	Peak	55.58	3.81	59.39	105.20	-45.81
5925.000	Peak	50.33	4.20	54.53	68.20	-13.67
5955.430	Peak	51.69	4.29	55.98	68.20	-12.22

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Report Number :TERF2402000303E2

Operation Mode :802.11a

Test Frequency :5825 MHz

Test Mode :Bandedge

EUT Pol :H Plane

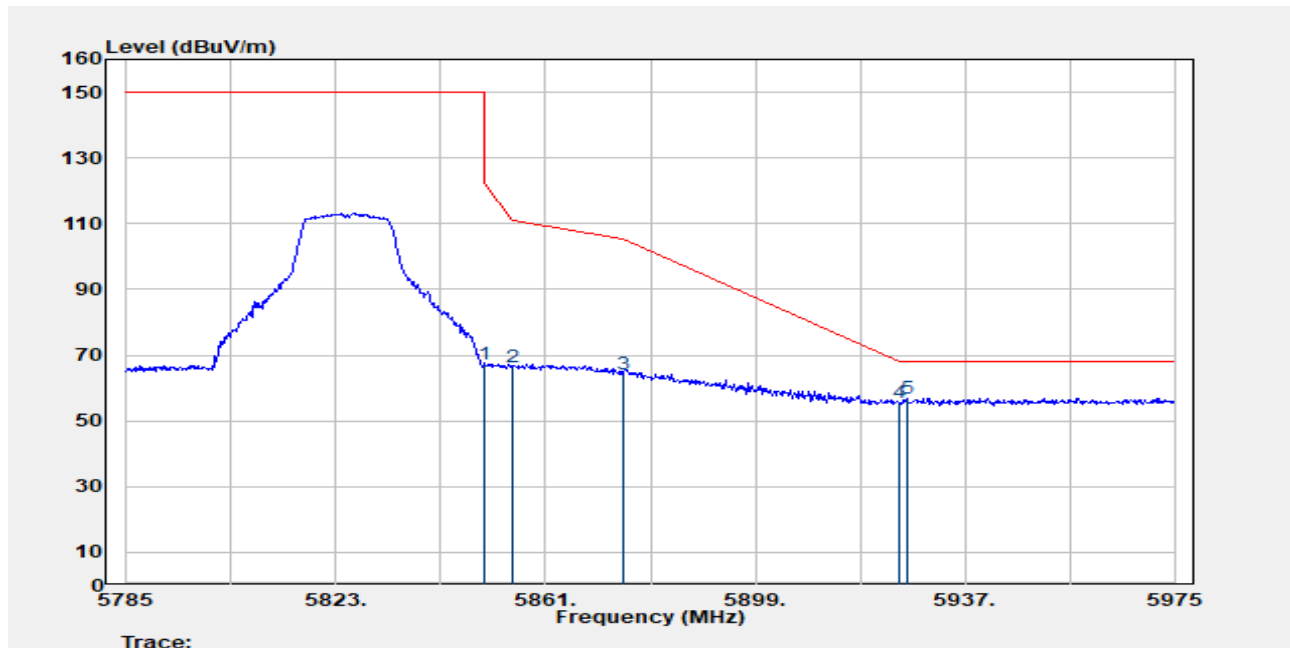
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	63.51	3.49	67.00	122.20	-55.20
5855.000	Peak	62.85	3.55	66.41	110.80	-44.39
5875.000	Peak	60.52	3.81	64.33	105.20	-40.87
5925.000	Peak	51.10	4.20	55.30	68.20	-12.90
5926.550	Peak	52.79	4.21	57.00	68.20	-11.20

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5180 MHz

Test Mode :Bandedge

EUT Pol :H Plane

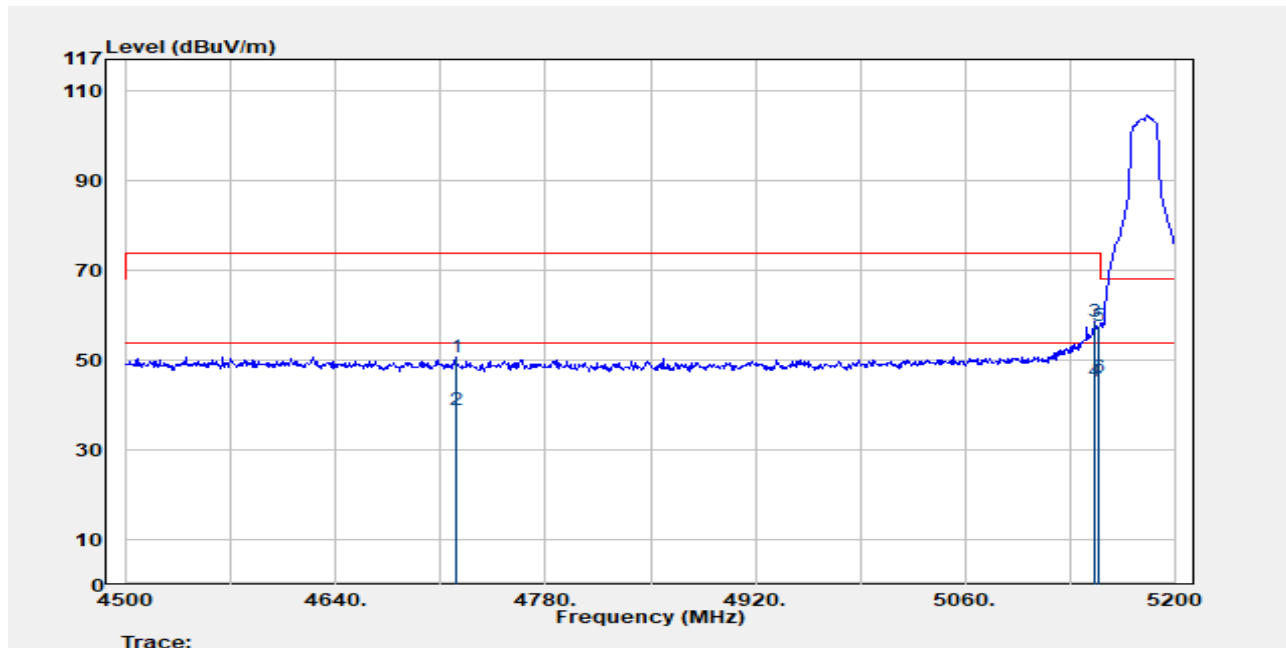
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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
4719.800	Peak	51.22	-0.58	50.64	74.00	-23.36
4719.800	Average	39.48	-0.58	38.90	54.00	-15.10
5146.800	Peak	56.80	1.73	58.53	74.00	-15.47
5146.800	Average	43.61	1.73	45.34	54.00	-8.66
5150.000	Peak	55.94	1.76	57.70	74.00	-16.30
5150.000	Average	44.66	1.76	46.42	54.00	-7.58

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5180 MHz

Test Mode :Bandedge

EUT Pol :H Plane

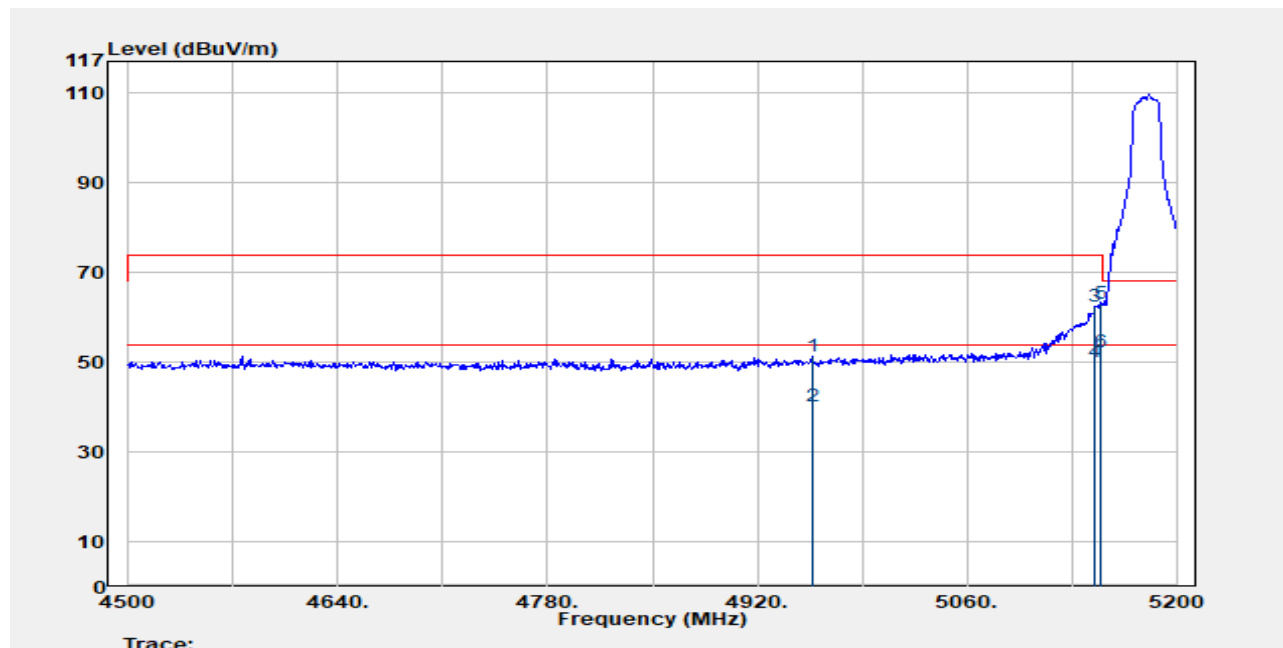
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4956.400	Peak	51.29	0.19	51.48	74.00	-22.52
4956.400	Average	40.15	0.19	40.34	54.00	-13.66
5145.400	Peak	60.83	1.71	62.54	74.00	-11.46
5145.400	Average	48.36	1.71	50.07	54.00	-3.93
5150.000	Peak	61.20	1.76	62.96	74.00	-11.04
5150.000	Average	50.60	1.76	52.36	54.00	-1.64

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5320 MHz

Test Mode :Bandedge

EUT Pol :H Plane

Note. :

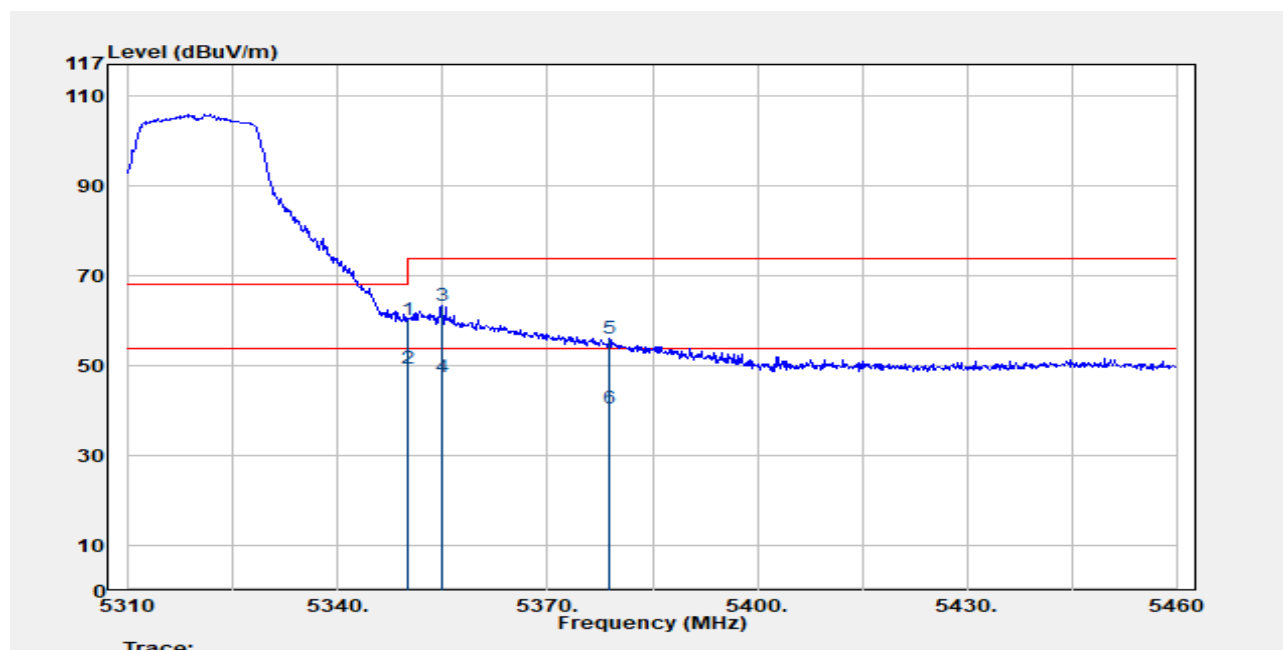
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5350.000	Peak	59.32	0.83	60.15	74.00	-13.85
5350.000	Average	48.68	0.83	49.51	54.00	-4.49
5354.850	Peak	62.61	0.84	63.45	74.00	-10.55
5354.850	Average	46.58	0.84	47.42	54.00	-6.58
5378.850	Peak	55.24	0.87	56.11	74.00	-17.89
5378.850	Average	39.60	0.87	40.47	54.00	-13.53

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5320 MHz

Test Mode :Bandedge

EUT Pol :H Plane

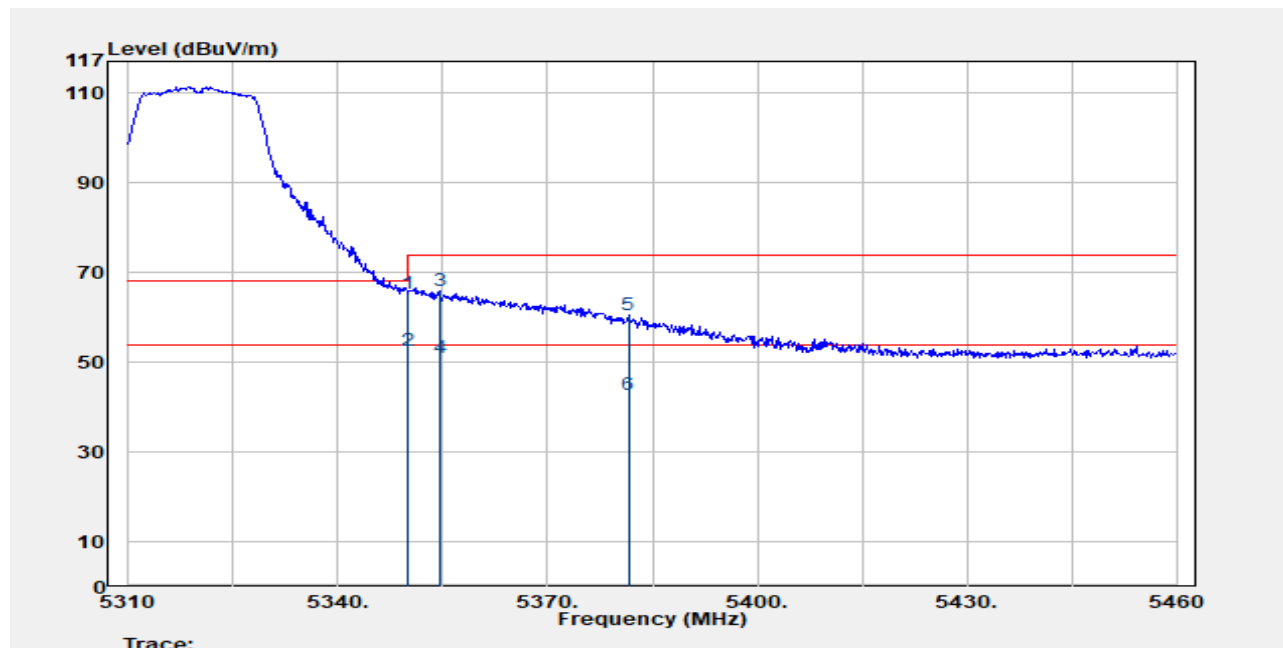
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	Peak	64.60	0.83	65.43	74.00	-8.57
5350.000	Average	51.86	0.83	52.69	54.00	-1.31
5354.550	Peak	65.18	0.84	66.01	74.00	-7.99
5354.550	Average	50.14	0.84	50.98	54.00	-3.02
5381.550	Peak	59.83	0.87	60.70	74.00	-13.30
5381.550	Average	41.79	0.87	42.66	54.00	-11.34

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5500 MHz

Test Mode :Bandedge

EUT Pol :H Plane

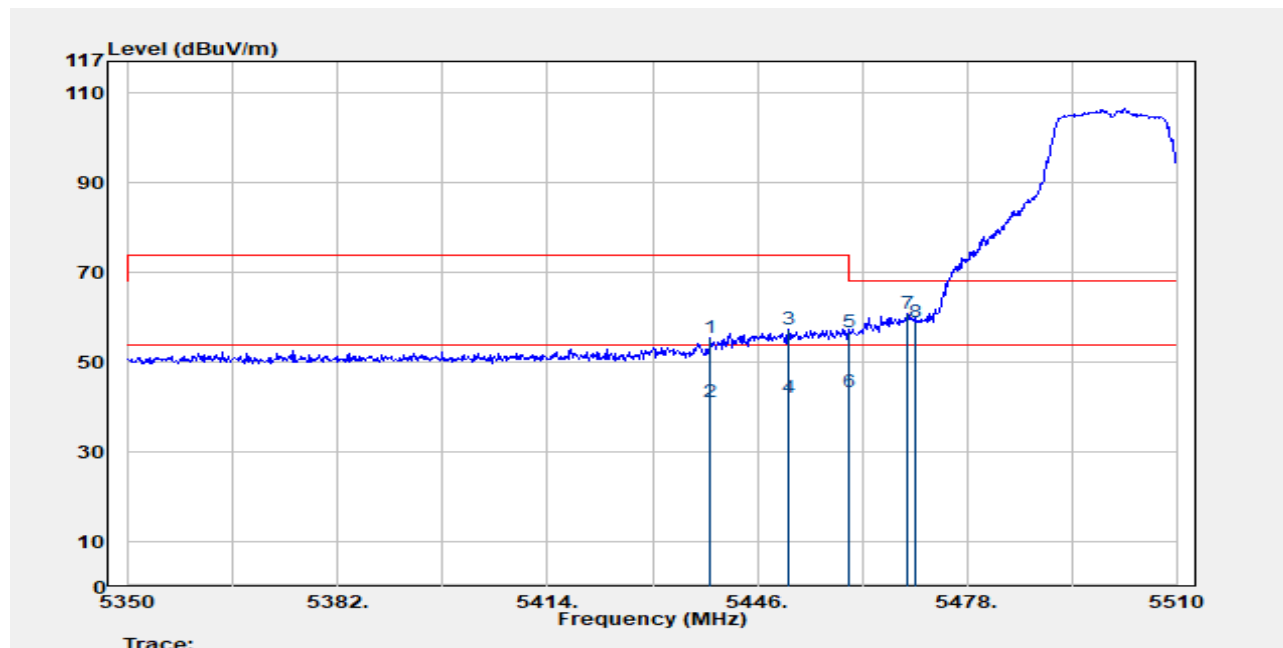
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5438.800	Peak	54.25	1.15	55.40	74.00	-18.60
5438.800	Average	40.01	1.15	41.16	54.00	-12.84
5450.800	Peak	56.21	1.22	57.43	74.00	-16.57
5450.800	Average	41.01	1.22	42.23	54.00	-11.77
5460.000	Peak	55.52	1.26	56.78	74.00	-17.22
5460.000	Average	42.31	1.26	43.57	54.00	-10.43
5469.040	Peak	59.42	1.30	60.73	68.20	-7.47
5470.000	Peak	57.72	1.31	59.03	68.20	-9.17

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5500 MHz

Test Mode :Bandedge

EUT Pol :H Plane

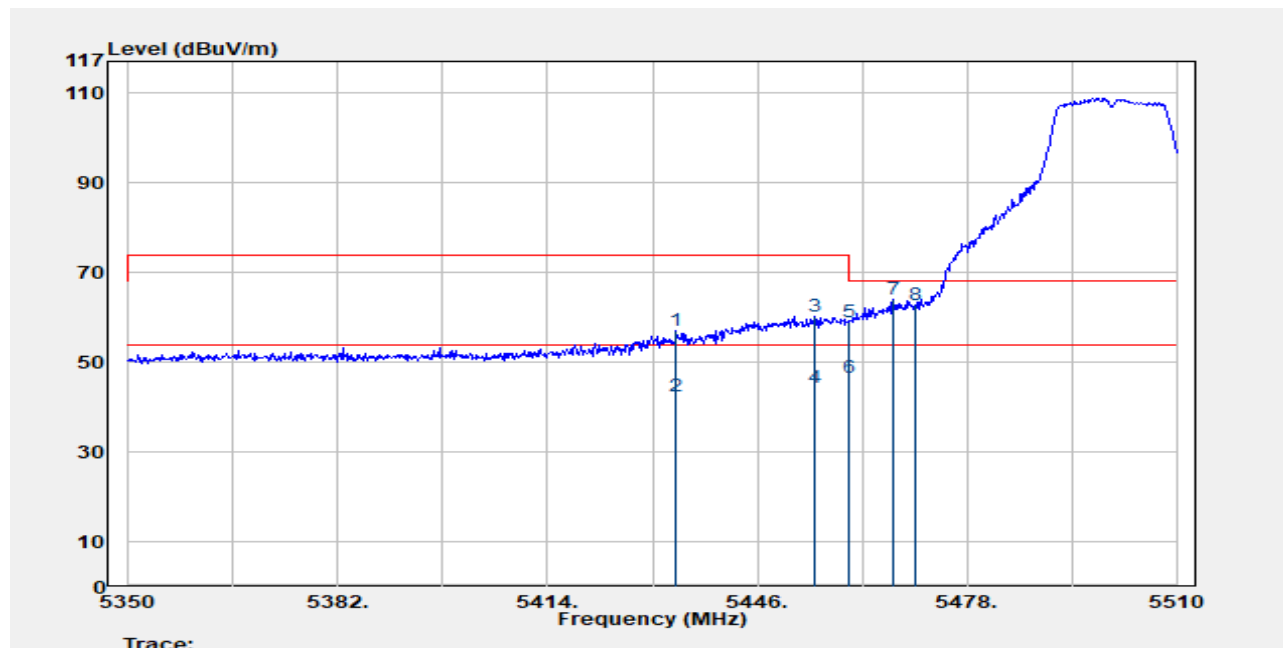
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5433.680	Peak	55.88	1.12	56.99	74.00	-17.01
5433.680	Average	41.50	1.12	42.62	54.00	-11.38
5454.800	Peak	59.01	1.24	60.25	74.00	-13.75
5454.800	Average	43.24	1.24	44.48	54.00	-9.52
5460.000	Peak	57.83	1.26	59.09	74.00	-14.91
5460.000	Average	45.36	1.26	46.62	54.00	-7.38
5466.800	Peak	62.91	1.29	64.21	68.20	-3.99
5470.000	Peak	61.35	1.31	62.66	68.20	-5.54

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5700 MHz

Test Mode :Bandedge

EUT Pol :H Plane

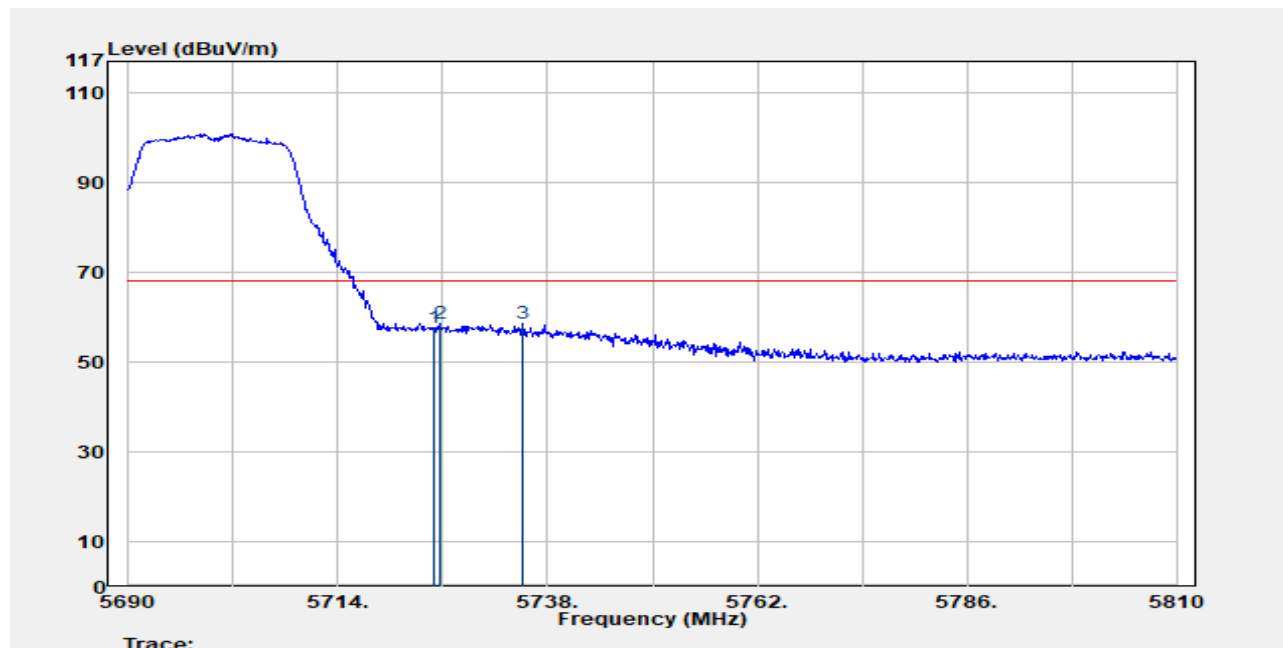
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	54.99	2.57	57.56	68.20	-10.64
5725.640	Peak	56.19	2.57	58.77	68.20	-9.43
5735.120	Peak	55.97	2.62	58.59	68.20	-9.61

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5700 MHz

Test Mode :Bandedge

EUT Pol :H Plane

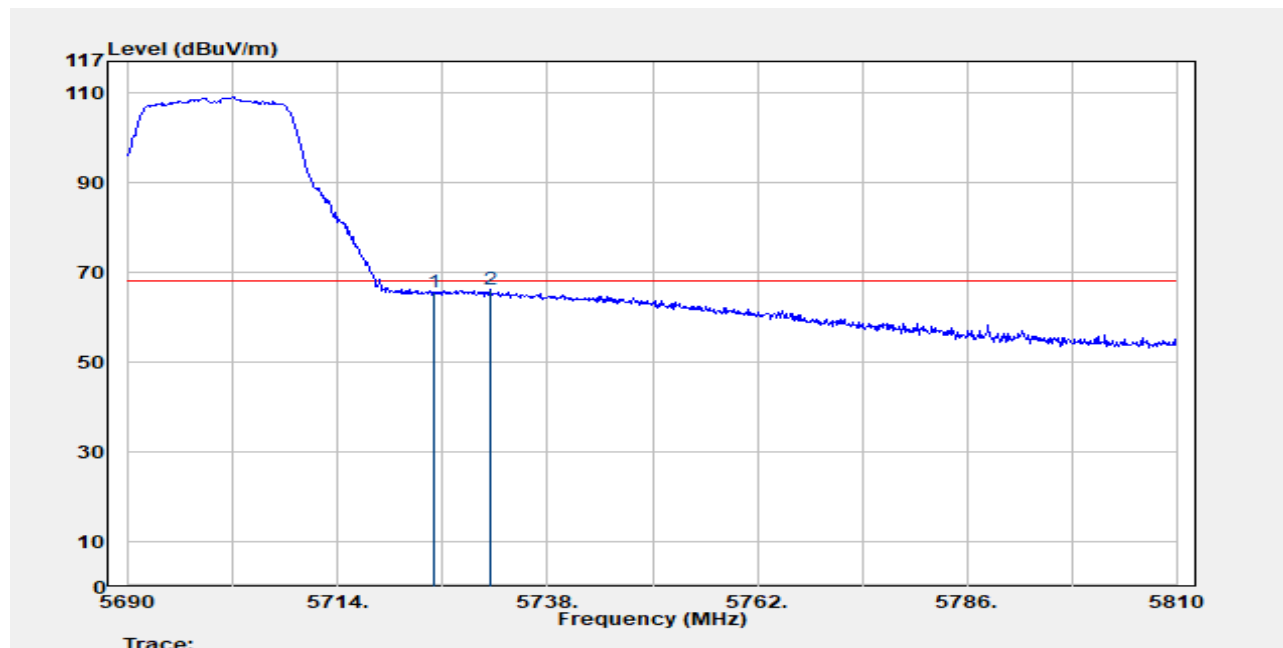
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	63.06	2.57	65.63	68.20	-2.57
5731.520	Peak	63.53	2.60	66.13	68.20	-2.07

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5720 MHz

Test Mode :Bandedge

EUT Pol :H Plane

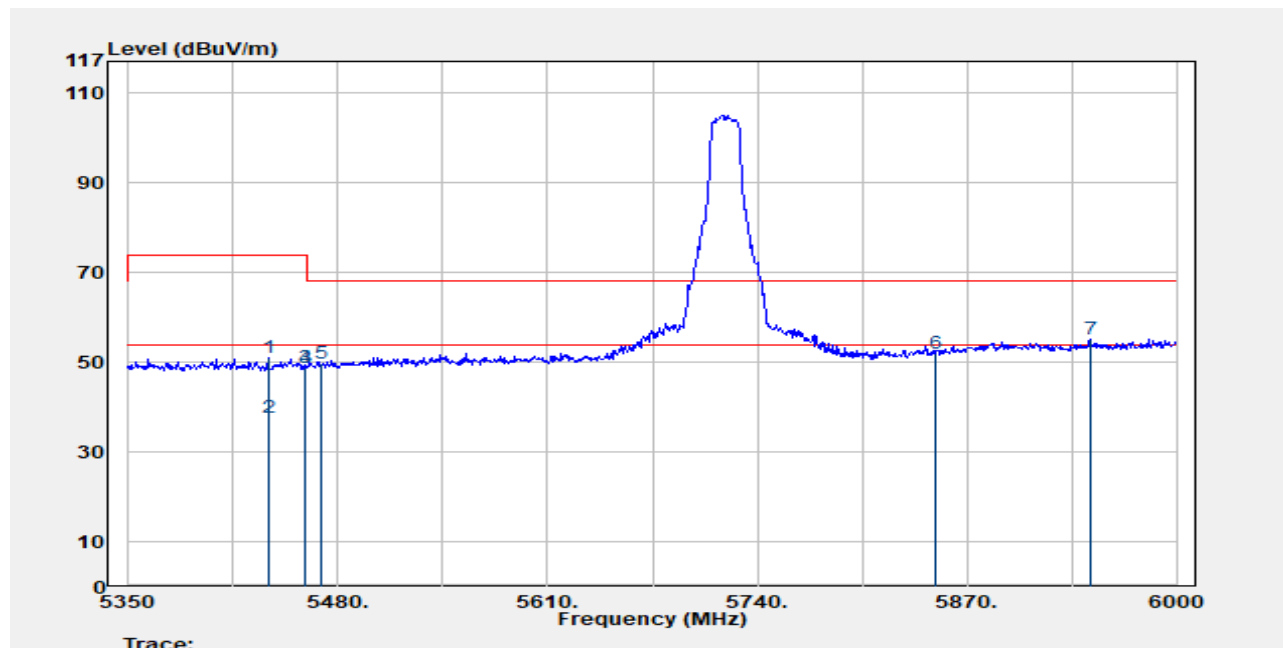
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5436.450	Peak	49.91	1.13	51.04	74.00	-22.96
5436.450	Average	36.53	1.13	37.66	54.00	-16.34
5460.000	Peak	47.64	1.26	48.90	74.00	-25.10
5460.000	Average	47.64	1.26	48.90	54.00	-5.10
5470.000	Peak	48.40	1.31	49.71	68.20	-18.49
5850.000	Peak	48.36	3.49	51.85	68.20	-16.35
5946.700	Peak	50.92	4.26	55.18	68.20	-13.02

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5720 MHz

Test Mode :Bandedge

EUT Pol :H Plane

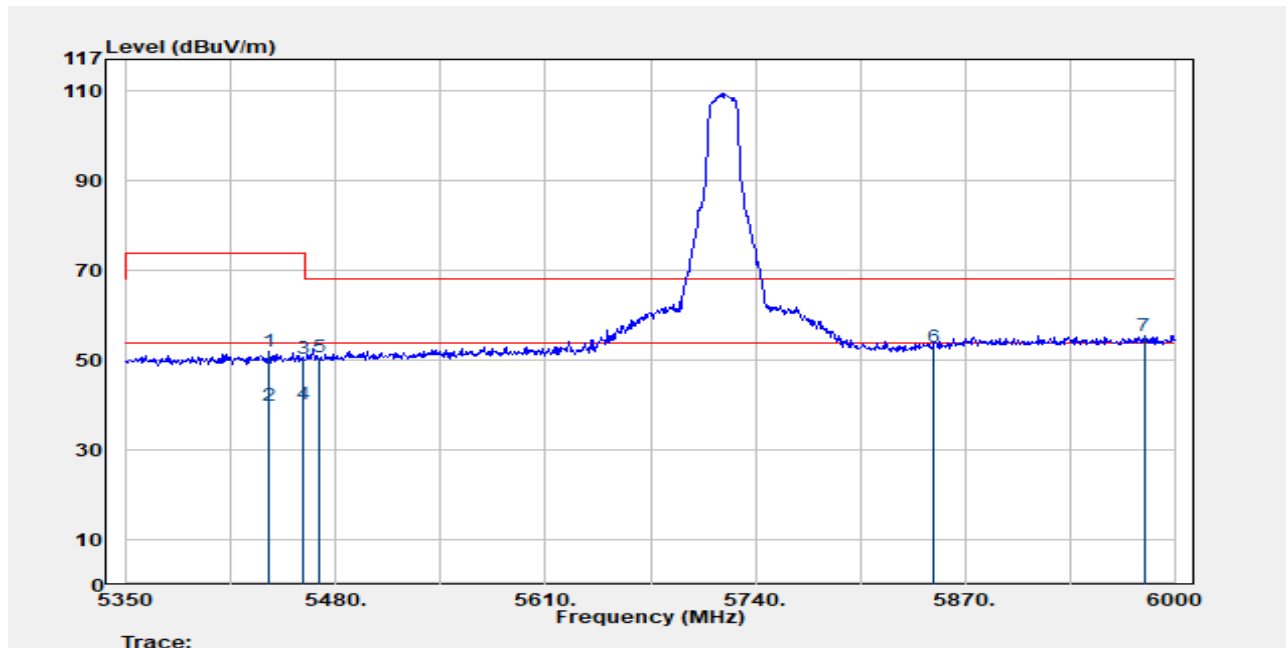
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5438.400	Peak	50.75	1.15	51.90	74.00	-22.10
5438.400	Average	38.69	1.15	39.84	54.00	-14.16
5460.000	Peak	49.26	1.26	50.53	74.00	-23.47
5460.000	Average	39.04	1.26	40.30	54.00	-13.70
5470.000	Peak	49.29	1.31	50.60	68.20	-17.60
5850.000	Peak	49.37	3.49	52.86	68.20	-15.34
5981.150	Peak	51.03	4.41	55.44	68.20	-12.76

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5745 MHz

Test Mode :Bandedge

EUT Pol :H Plane

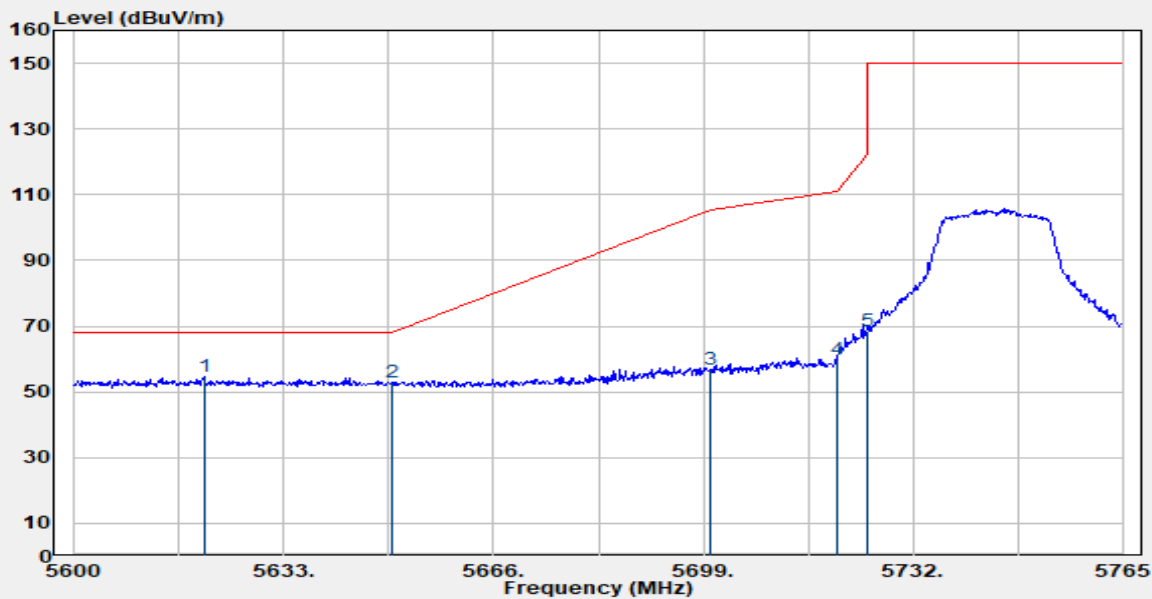
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5620.460	Peak	52.30	2.12	54.43	68.20	-13.77
5650.000	Peak	50.89	2.17	53.07	68.20	-15.13
5700.000	Peak	54.24	2.45	56.69	105.20	-48.51
5720.000	Peak	57.22	2.55	59.77	110.80	-51.03
5725.000	Peak	66.04	2.57	68.61	122.20	-53.59

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5745 MHz

Test Mode :Bandedge

EUT Pol :H Plane

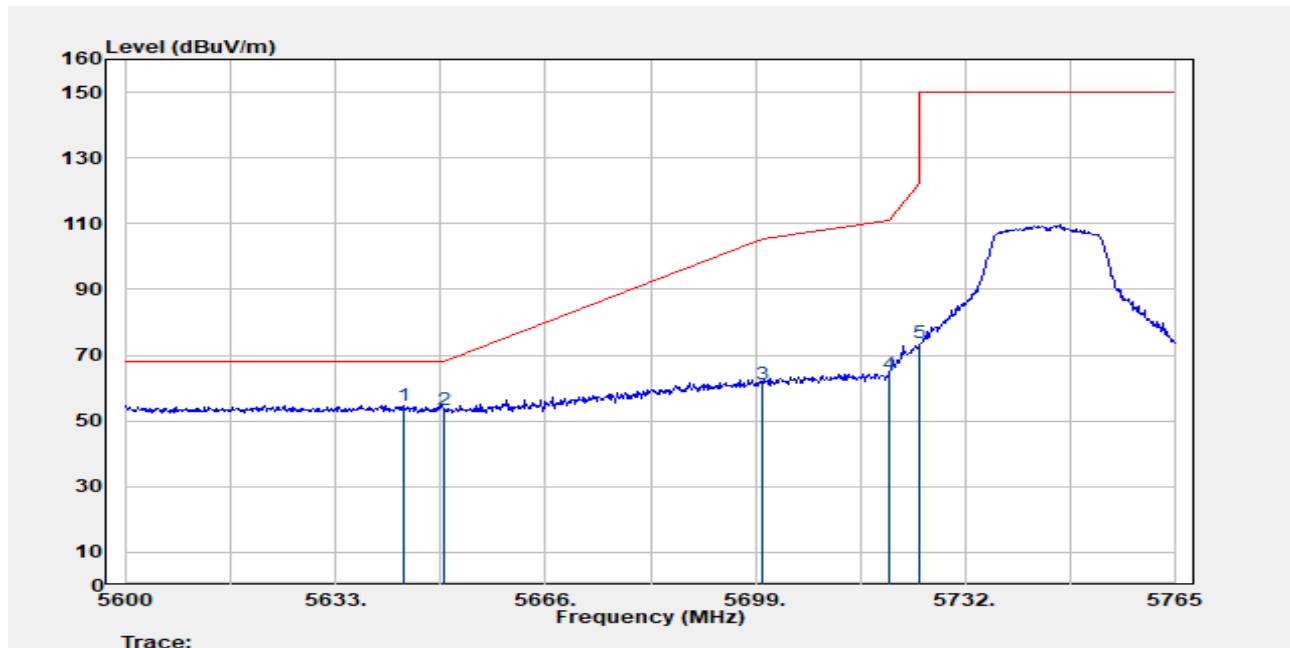
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5643.560	Peak	52.47	2.16	54.63	68.20	-13.57
5650.000	Peak	51.00	2.17	53.17	68.20	-15.03
5700.000	Peak	58.57	2.45	61.02	105.20	-44.18
5720.000	Peak	61.78	2.55	64.33	110.80	-46.47
5725.000	Peak	71.15	2.57	73.72	122.20	-48.48

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Member of SGS Group

Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5825 MHz

Test Mode :Bandedge

EUT Pol :H Plane

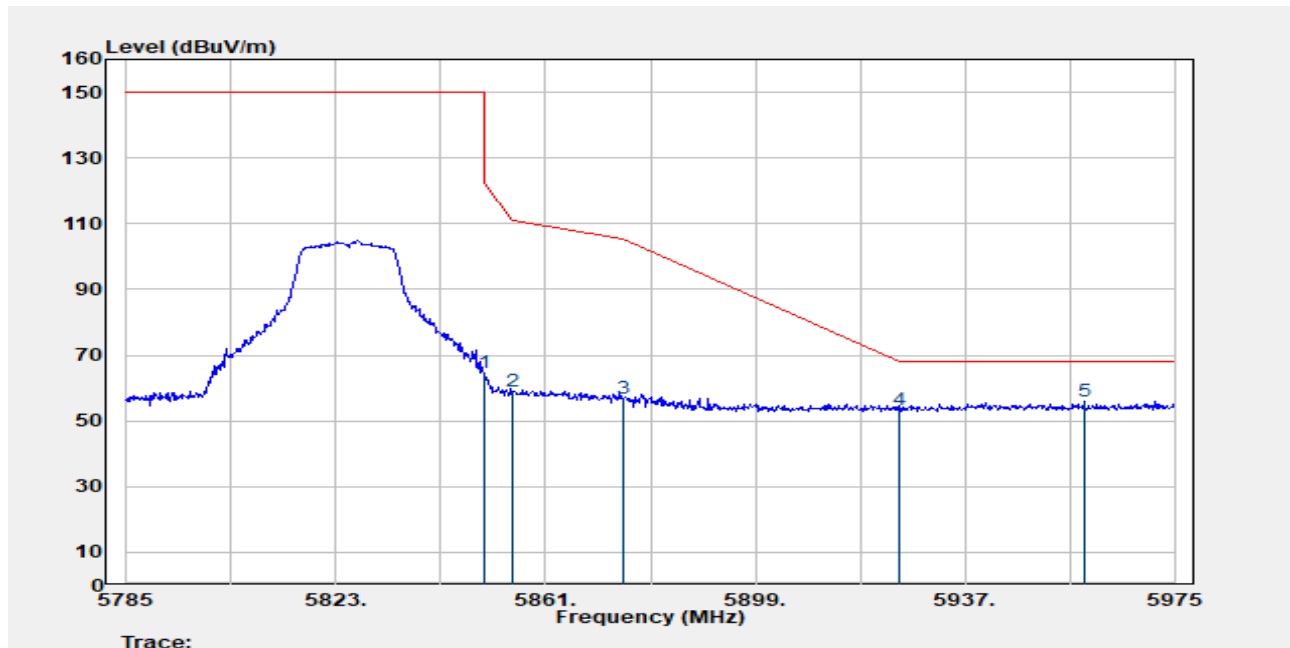
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	60.95	3.49	64.43	122.20	-57.77
5855.000	Peak	55.32	3.55	58.87	110.80	-51.93
5875.000	Peak	52.84	3.81	56.65	105.20	-48.55
5925.000	Peak	49.05	4.20	53.25	68.20	-14.95
5958.660	Peak	51.72	4.30	56.03	68.20	-12.17

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Report Number :TERF2402000303E2

Operation Mode :802.11n20

Test Frequency :5825 MHz

Test Mode :Bandedge

EUT Pol :H Plane

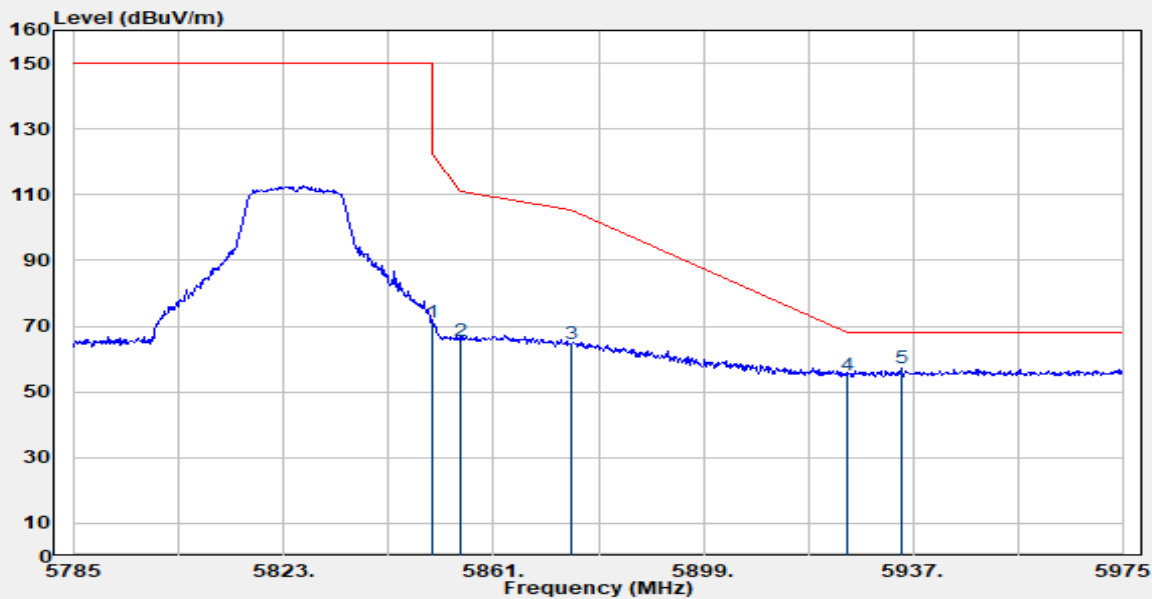
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	67.82	3.49	71.31	122.20	-50.89
5855.000	Peak	62.03	3.55	65.59	110.80	-45.21
5875.000	Peak	60.78	3.81	64.59	105.20	-40.61
5925.000	Peak	51.06	4.20	55.26	68.20	-12.94
5934.910	Peak	53.06	4.23	57.29	68.20	-10.91

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5190 MHz

Test Mode :Bandedge

EUT Pol :H Plane

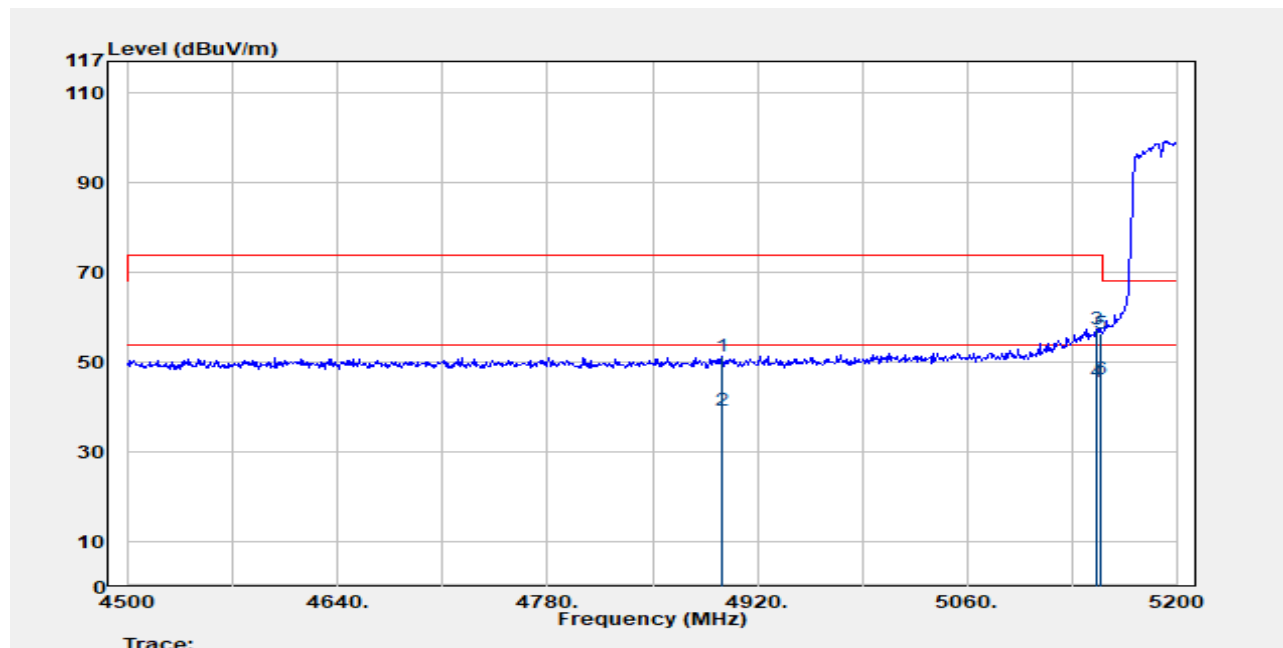
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4896.200	Peak	51.54	-0.21	51.33	74.00	-22.67
4896.200	Average	39.52	-0.21	39.31	54.00	-14.69
5146.800	Peak	55.70	1.73	57.43	74.00	-16.57
5146.800	Average	43.80	1.73	45.53	54.00	-8.47
5150.000	Peak	54.75	1.76	56.51	74.00	-17.49
5150.000	Average	44.64	1.76	46.40	54.00	-7.60

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5190 MHz

Test Mode :Bandedge

EUT Pol :H Plane

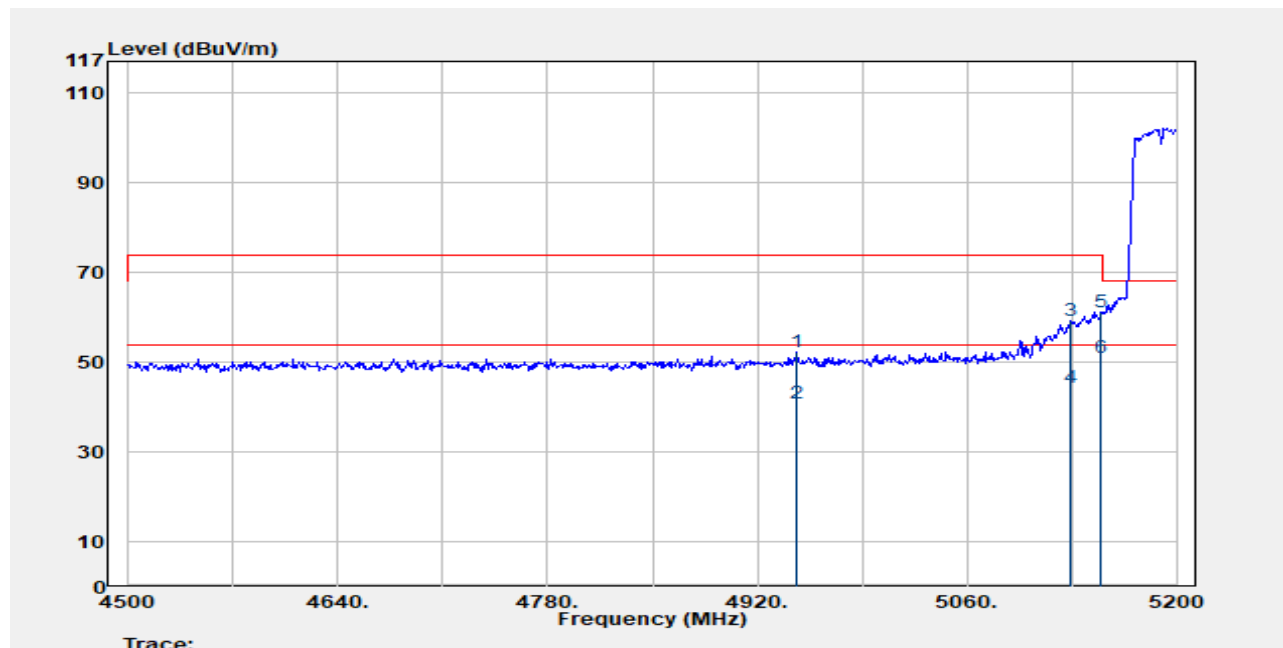
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4946.600	Peak	52.31	0.11	52.42	74.00	-21.58
4946.600	Average	40.78	0.11	40.89	54.00	-13.11
5129.300	Peak	57.71	1.56	59.27	74.00	-14.73
5129.300	Average	42.85	1.56	44.41	54.00	-9.59
5150.000	Peak	59.31	1.76	61.06	74.00	-12.94
5150.000	Average	49.28	1.76	51.04	54.00	-2.96

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5310 MHz

Test Mode :Bandedge

EUT Pol :H Plane

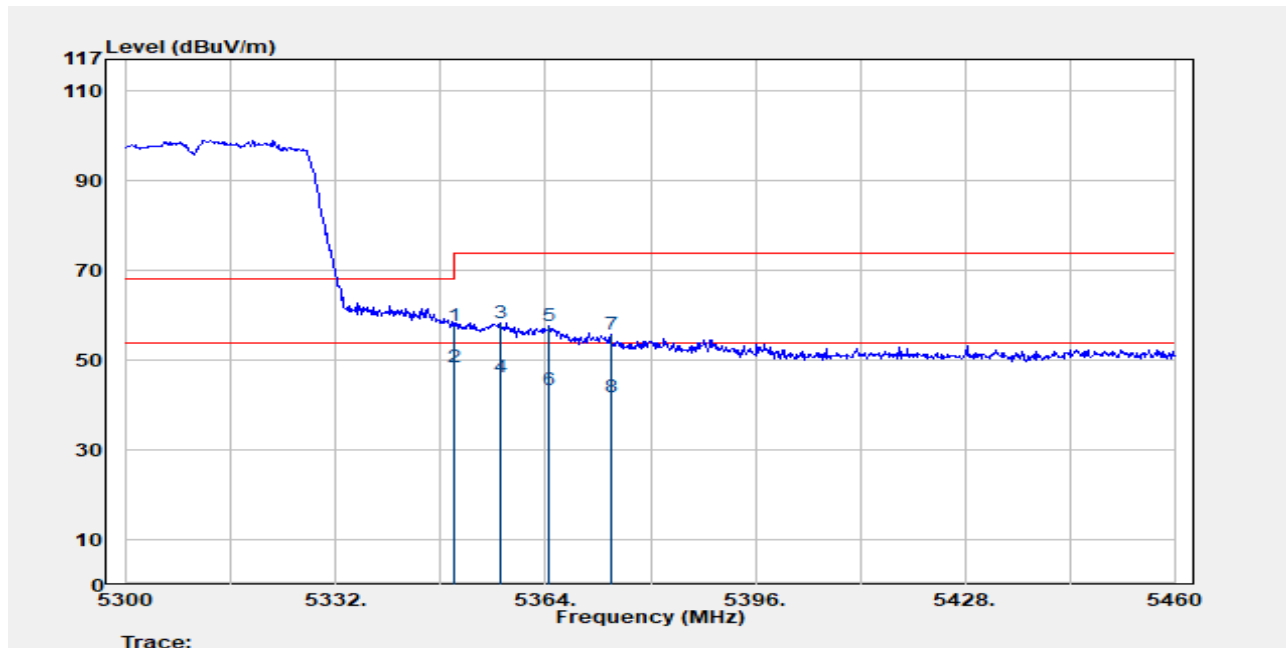
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	Peak	56.92	0.83	57.75	74.00	-16.25
5350.000	Average	47.77	0.83	48.60	54.00	-5.40
5356.960	Peak	57.61	0.84	58.44	74.00	-15.56
5356.960	Average	45.40	0.84	46.24	54.00	-7.76
5364.480	Peak	56.91	0.85	57.76	74.00	-16.24
5364.480	Average	42.56	0.85	43.41	54.00	-10.59
5373.920	Peak	54.85	0.86	55.71	74.00	-18.29
5373.920	Average	40.90	0.86	41.76	54.00	-12.24

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5310 MHz

Test Mode :Bandedge

EUT Pol :H Plane

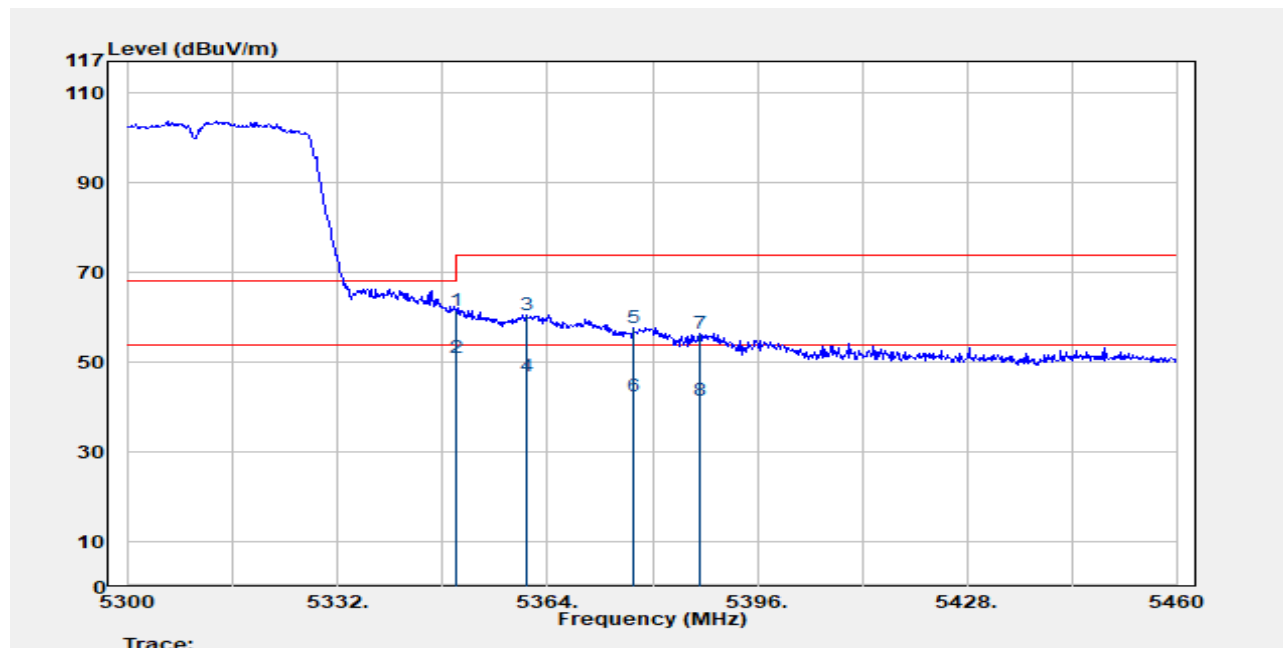
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	Peak	60.57	0.83	61.40	74.00	-12.60
5350.000	Average	50.16	0.83	50.99	54.00	-3.01
5360.800	Peak	59.77	0.84	60.61	74.00	-13.39
5360.800	Average	46.04	0.84	46.88	54.00	-7.12
5376.960	Peak	56.77	0.87	57.64	74.00	-16.36
5376.960	Average	41.47	0.87	42.34	54.00	-11.66
5387.200	Peak	55.56	0.88	56.44	74.00	-17.56
5387.200	Average	40.69	0.88	41.57	54.00	-12.43

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5510 MHz

Test Mode :Bandedge

EUT Pol :H Plane

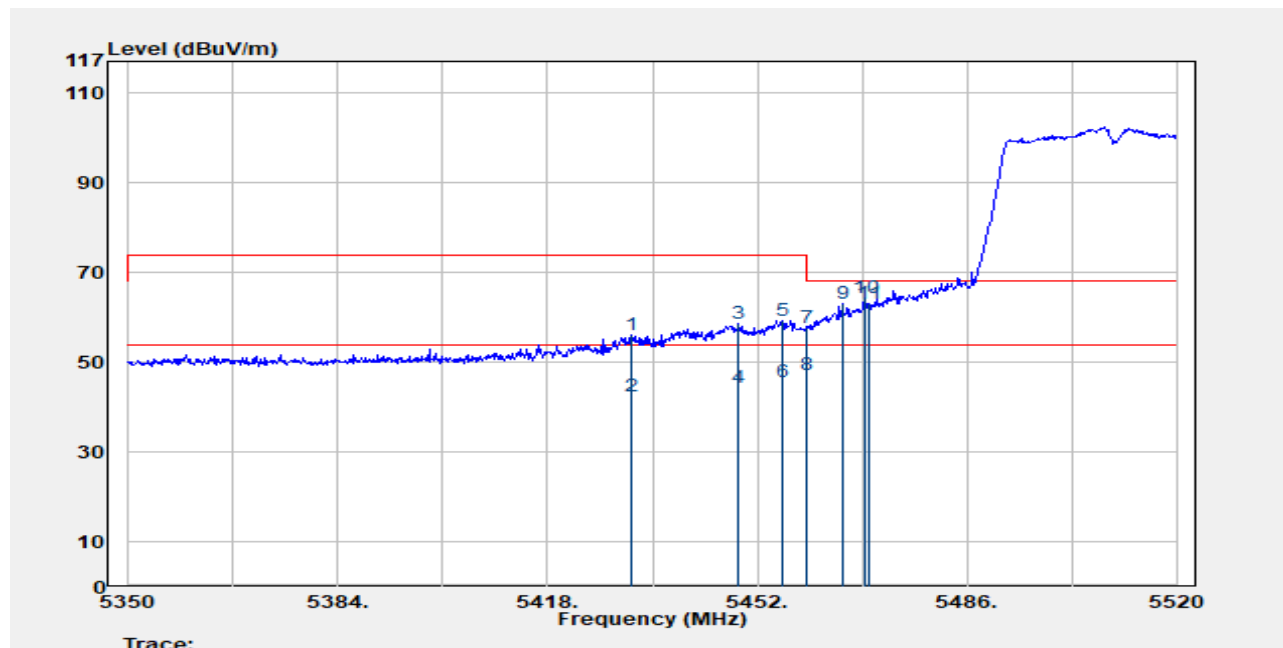
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5431.600	Peak	54.99	1.10	56.09	74.00	-17.91
5431.600	Average	41.34	1.10	42.44	54.00	-11.56
5448.940	Peak	57.29	1.21	58.50	74.00	-15.50
5448.940	Average	43.06	1.21	44.27	54.00	-9.73
5456.080	Peak	57.93	1.25	59.17	74.00	-14.83
5456.080	Average	44.27	1.25	45.52	54.00	-8.48
5460.000	Peak	56.46	1.26	57.72	74.00	-16.28
5460.000	Average	45.88	1.26	47.14	54.00	-6.86
5465.770	Peak	61.83	1.29	63.12	68.20	-5.08
5469.510	Peak	63.11	1.31	64.41	68.20	-3.79
5470.000	Peak	61.87	1.31	63.18	68.20	-5.02

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5510 MHz

Test Mode :Bandedge

EUT Pol :H Plane

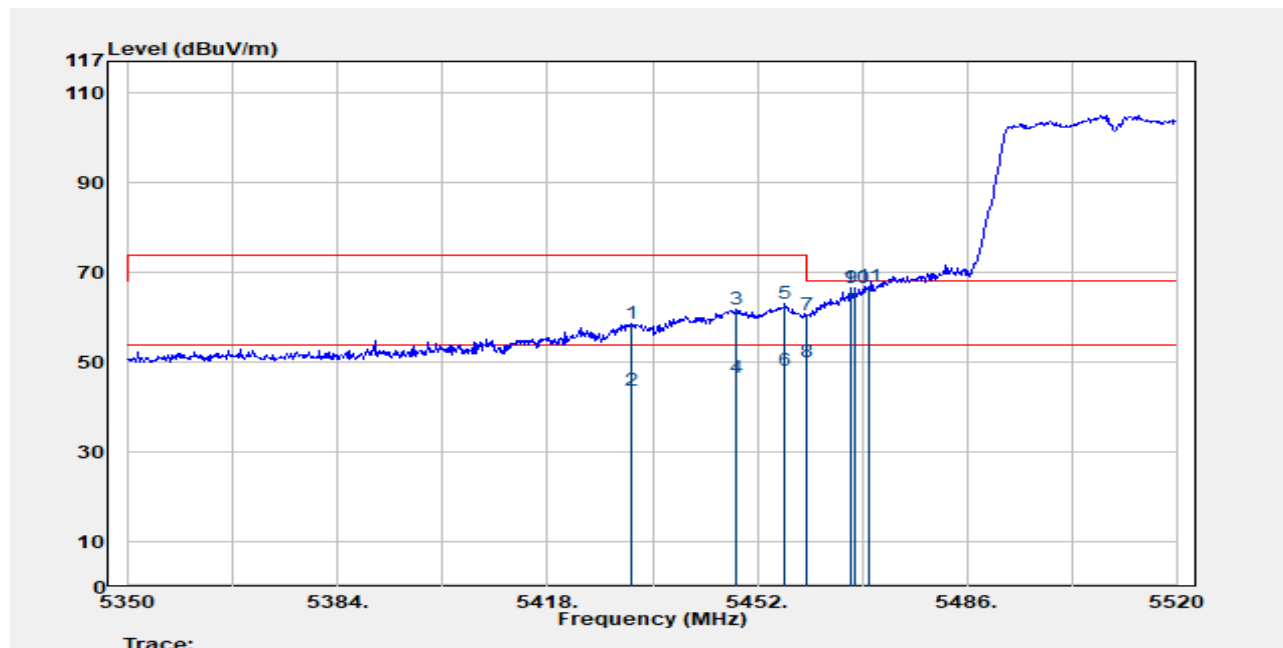
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5431.600	Peak	57.42	1.10	58.52	74.00	-15.48
5431.600	Average	42.62	1.10	43.72	54.00	-10.28
5448.600	Peak	60.74	1.21	61.95	74.00	-12.05
5448.600	Average	45.41	1.21	46.62	54.00	-7.38
5456.420	Peak	61.87	1.25	63.12	74.00	-10.88
5456.420	Average	46.87	1.25	48.12	54.00	-5.88
5460.000	Peak	59.44	1.26	60.71	74.00	-13.29
5460.000	Average	48.69	1.26	49.95	54.00	-4.05
5467.130	Peak	65.38	1.30	66.68	68.20	-1.52
5467.980	Peak	65.38	1.30	66.68	68.20	-1.52
5470.000	Peak	65.47	1.31	66.78	68.20	-1.42

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5670 MHz

Test Mode :Bandedge

EUT Pol :H Plane

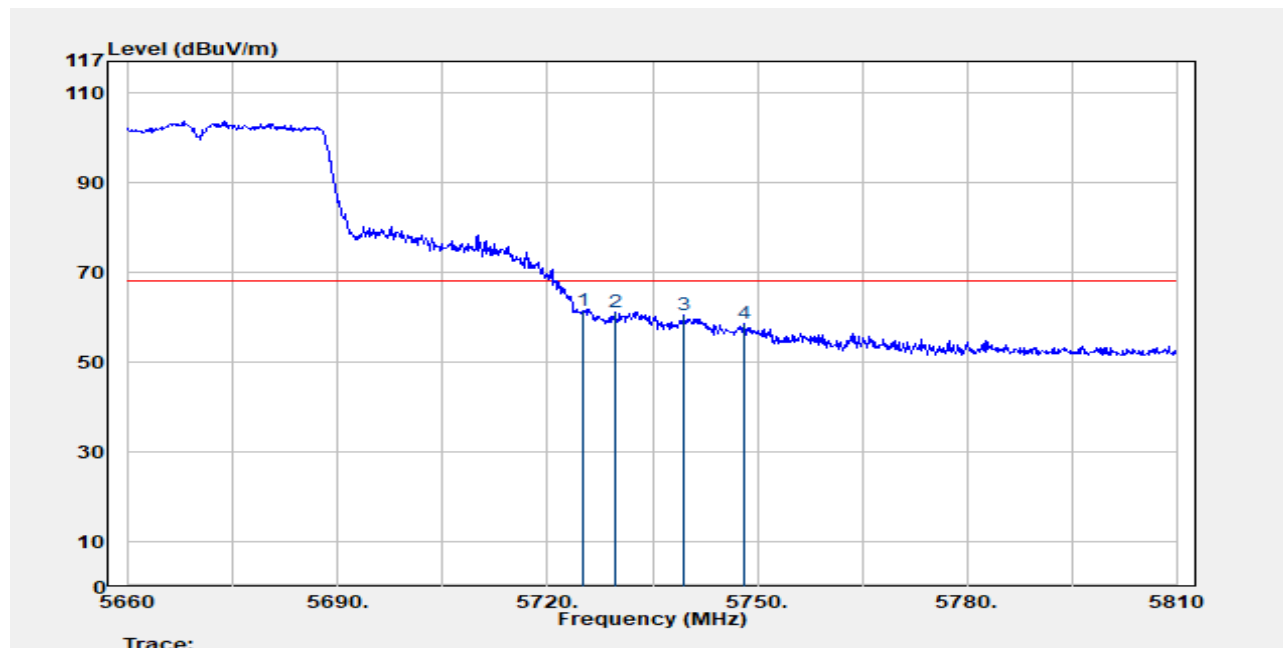
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	58.99	2.57	61.56	68.20	-6.64
5729.600	Peak	58.69	2.59	61.28	68.20	-6.92
5739.500	Peak	57.92	2.64	60.56	68.20	-7.64
5748.050	Peak	55.90	2.68	58.58	68.20	-9.62

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5670 MHz

Test Mode :Bandedge

EUT Pol :H Plane

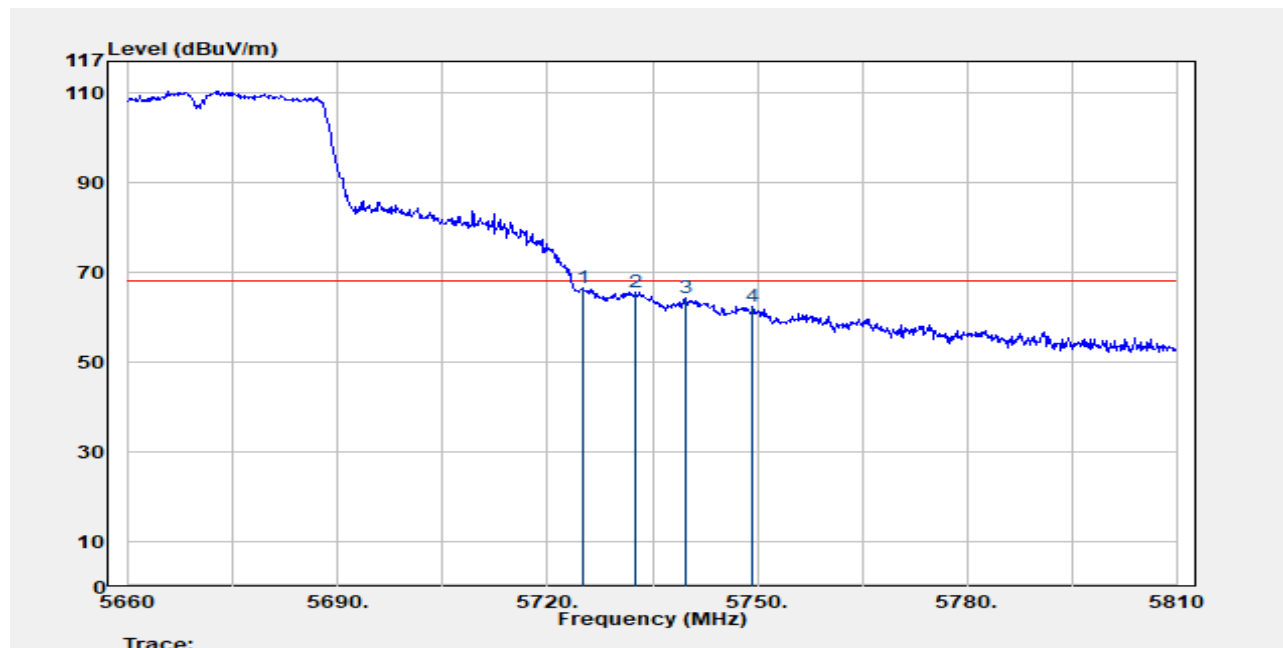
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	63.90	2.57	66.47	68.20	-1.73
5732.600	Peak	63.09	2.61	65.70	68.20	-2.50
5739.650	Peak	61.61	2.64	64.25	68.20	-3.95
5749.400	Peak	59.82	2.69	62.51	68.20	-5.69

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5710 MHz

Test Mode :Bandedge

EUT Pol :H Plane

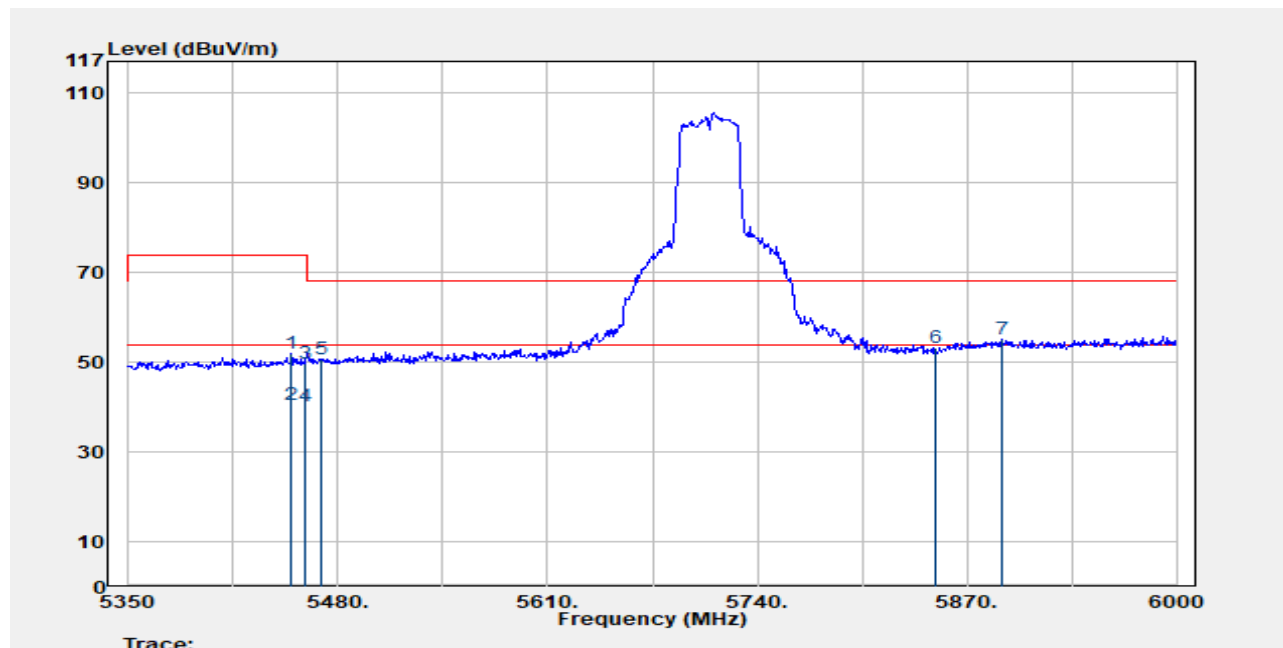
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5450.750	Peak	50.67	1.22	51.89	74.00	-22.11
5450.750	Average	39.28	1.22	40.50	54.00	-13.50
5460.000	Peak	48.56	1.26	49.82	74.00	-24.18
5460.000	Average	39.16	1.26	40.42	54.00	-13.58
5470.000	Peak	49.41	1.31	50.72	68.20	-17.48
5850.000	Peak	49.64	3.49	53.13	68.20	-15.07
5892.100	Peak	51.22	4.04	55.26	68.20	-12.94

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5710 MHz

Test Mode :Bandedge

EUT Pol :H Plane

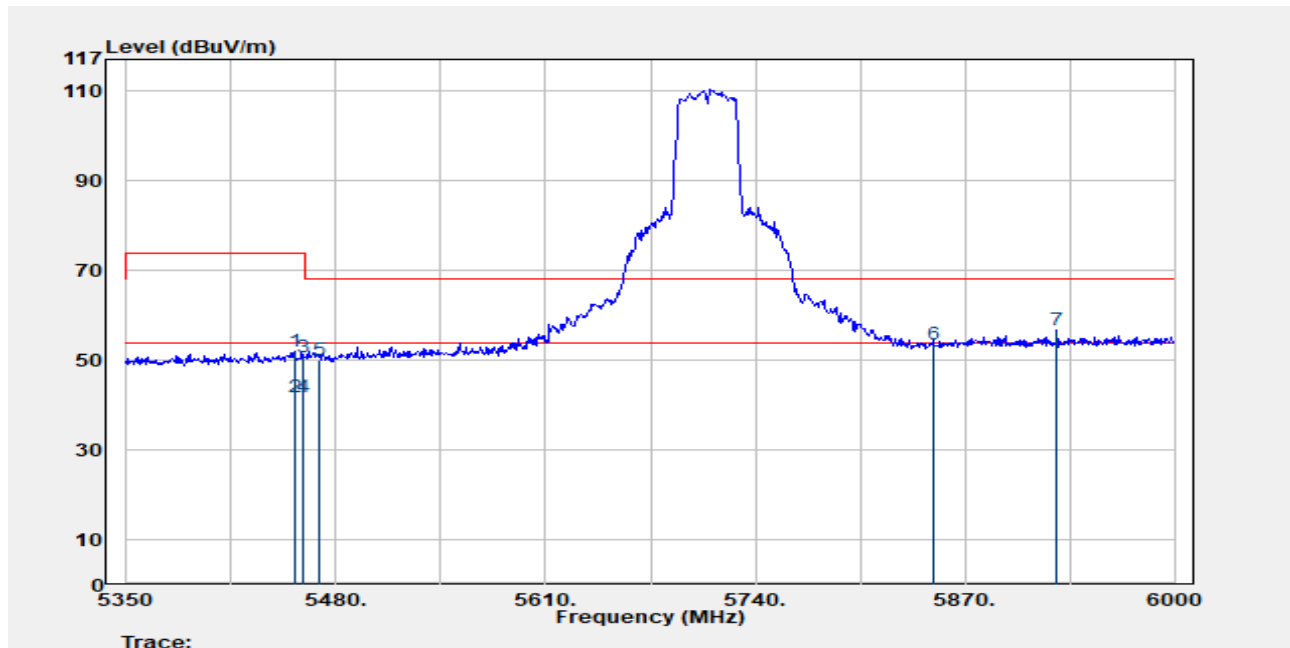
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5454.000	Peak	50.76	1.24	52.00	74.00	-22.00
5454.000	Average	40.73	1.24	41.97	54.00	-12.03
5460.000	Peak	49.33	1.26	50.59	74.00	-23.41
5460.000	Average	40.72	1.26	41.98	54.00	-12.02
5470.000	Peak	48.77	1.31	50.08	68.20	-18.12
5850.000	Peak	49.95	3.49	53.43	68.20	-14.77
5927.200	Peak	52.42	4.21	56.63	68.20	-11.57

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Member of SGS Group

Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5775 MHz

Test Mode :Bandedge

EUT Pol :H Plane

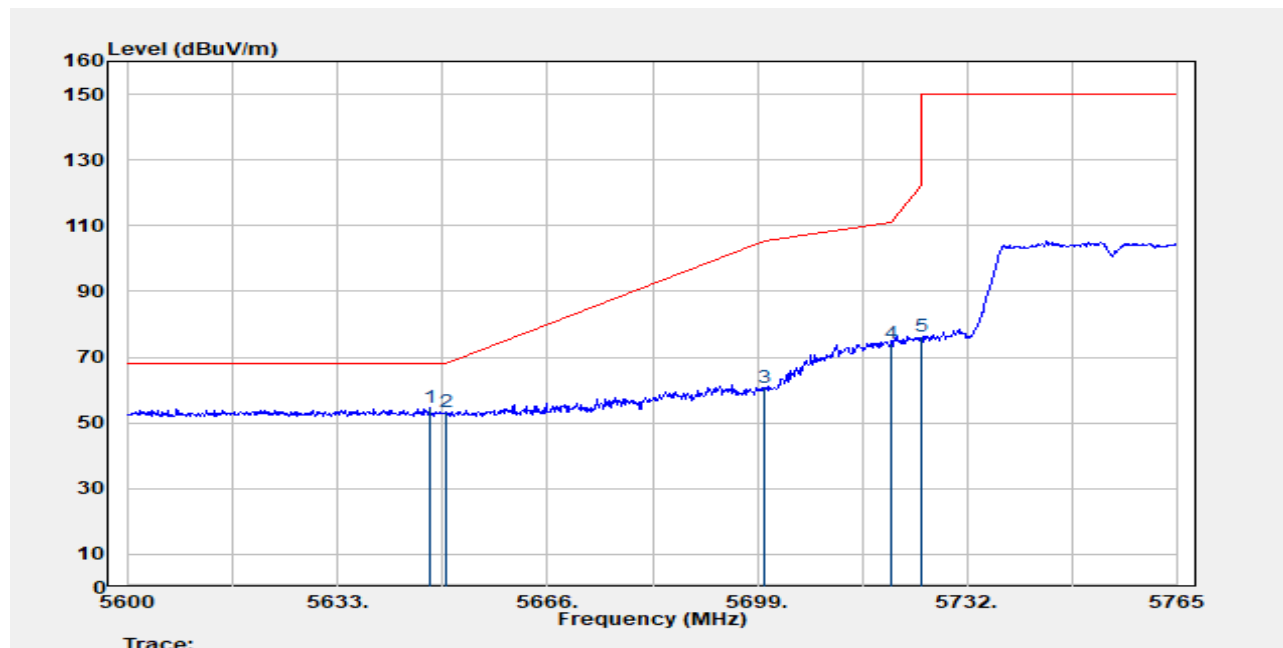
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5647.355	Peak	52.45	2.17	54.62	68.20	-13.58
5650.000	Peak	51.04	2.17	53.21	68.20	-14.99
5700.000	Peak	58.36	2.45	60.81	105.20	-44.39
5720.000	Peak	71.56	2.55	74.11	110.80	-36.69
5725.000	Peak	73.78	2.57	76.35	122.20	-45.85

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5775 MHz

Test Mode :Bandedge

EUT Pol :H Plane

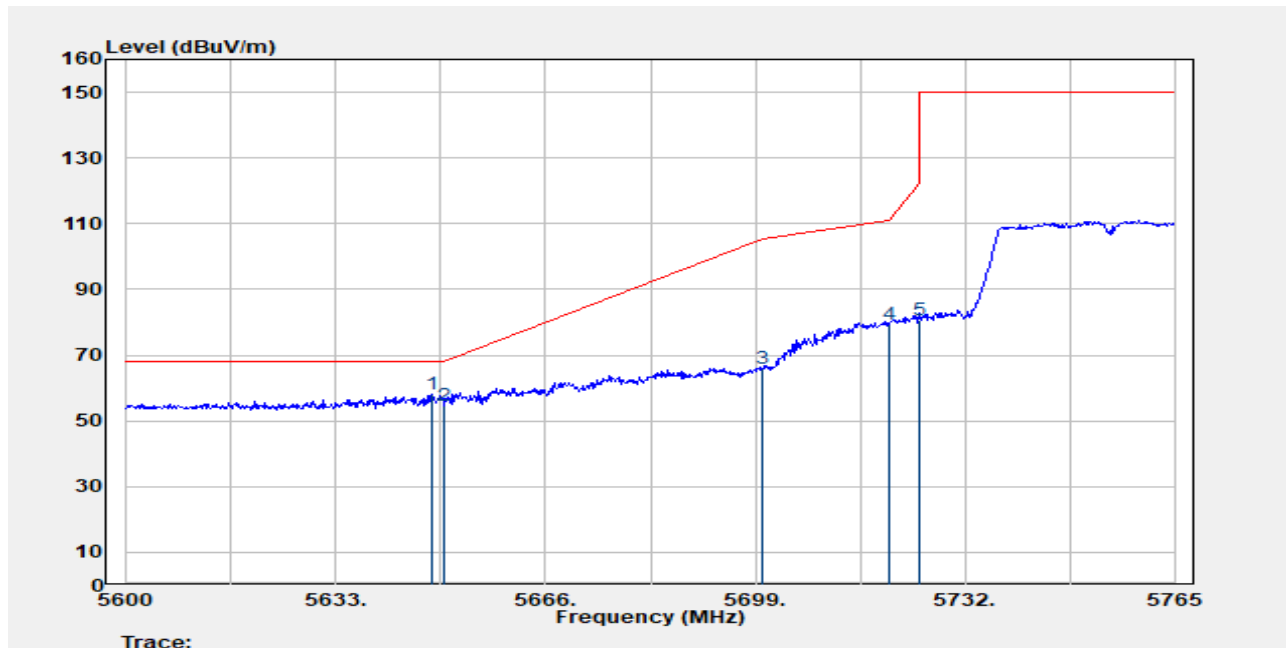
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5648.180	Peak	55.83	2.17	58.00	68.20	-10.20
5650.000	Peak	52.32	2.17	54.49	68.20	-13.71
5700.000	Peak	63.50	2.45	65.95	105.20	-39.25
5720.000	Peak	76.92	2.55	79.46	110.80	-31.34
5725.000	Peak	78.24	2.57	80.81	122.20	-41.39

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Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5795 MHz

Test Mode :Bandedge

EUT Pol :H Plane

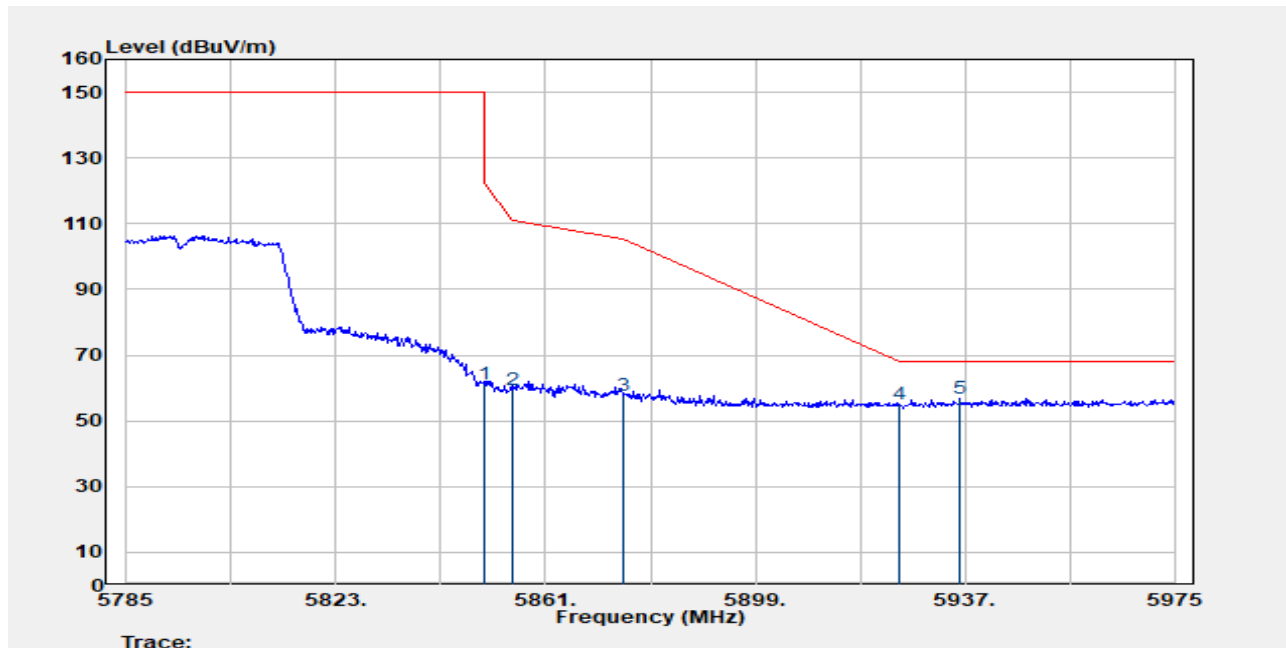
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	57.64	3.49	61.13	122.20	-61.07
5855.000	Peak	55.93	3.55	59.48	110.80	-51.32
5875.000	Peak	54.04	3.81	57.85	105.20	-47.35
5925.000	Peak	50.93	4.20	55.13	68.20	-13.07
5936.240	Peak	52.47	4.23	56.70	68.20	-11.50

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Member of SGS Group

Report Number :TERF2402000303E2

Operation Mode :802.11n40

Test Frequency :5795 MHz

Test Mode :Bandedge

EUT Pol :H Plane

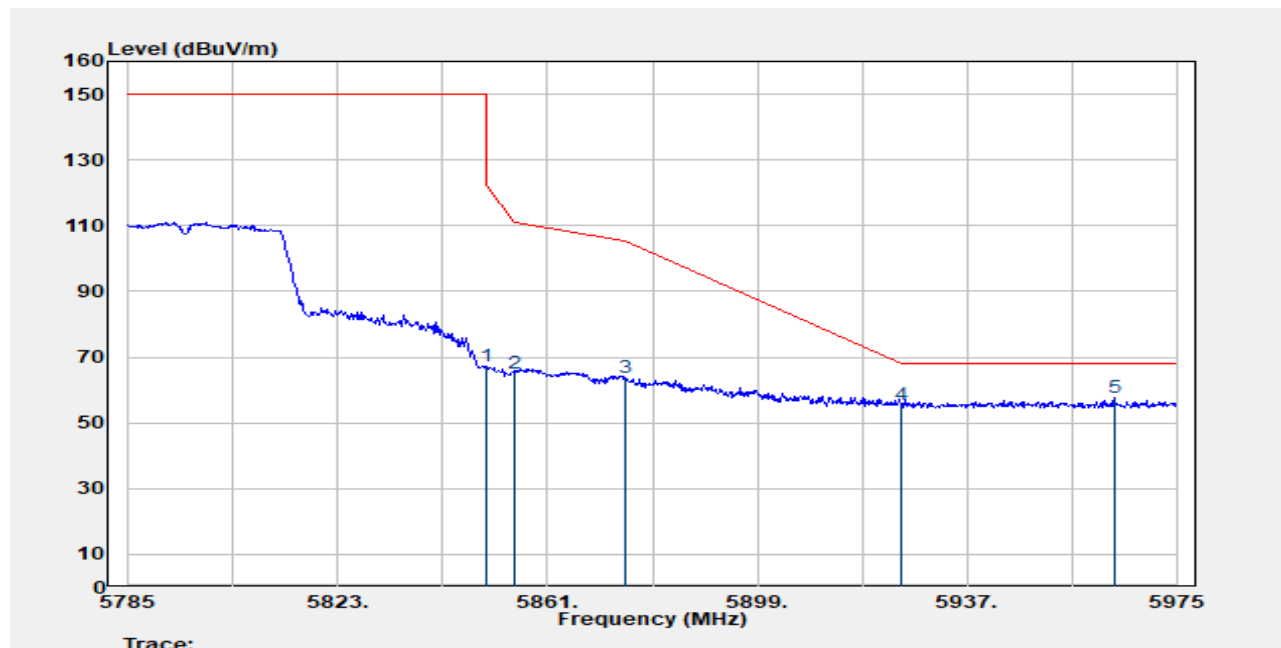
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	63.65	3.49	67.13	122.20	-55.07
5855.000	Peak	61.53	3.55	65.08	110.80	-45.72
5875.000	Peak	59.78	3.81	63.59	105.20	-41.61
5925.000	Peak	51.21	4.20	55.41	68.20	-12.79
5963.790	Peak	53.14	4.33	57.47	68.20	-10.73

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5210 MHz

Test Mode :Bandedge

EUT Pol :H Plane

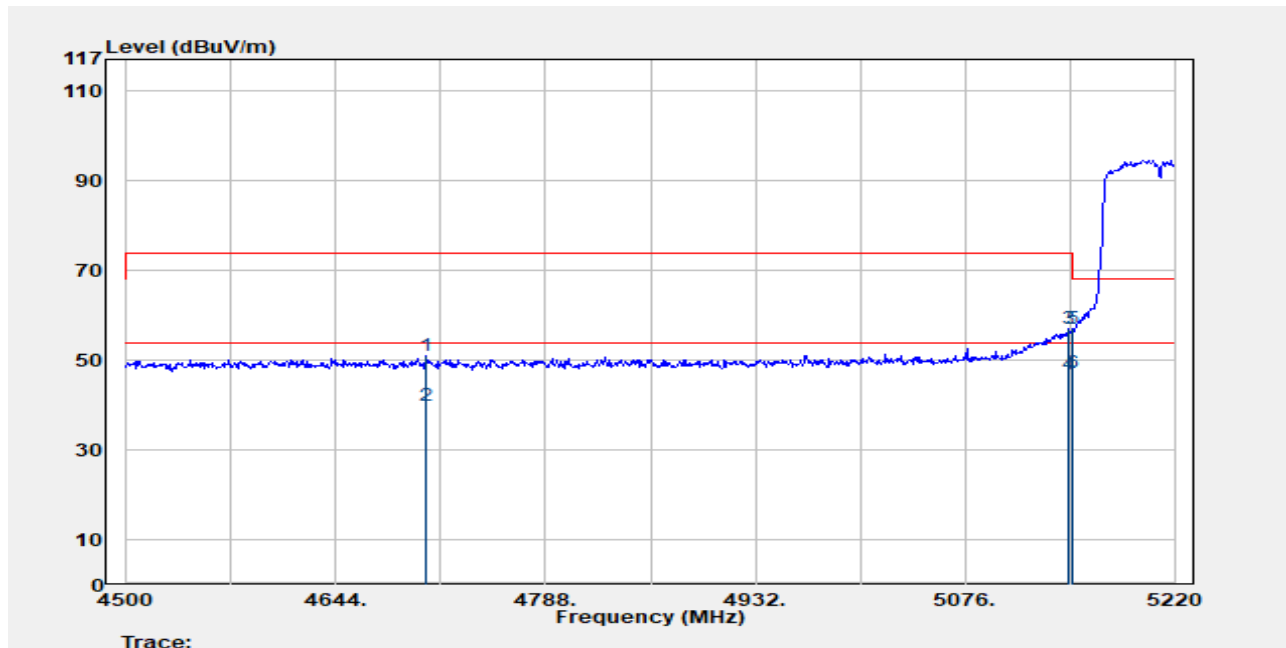
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4705.920	Peak	51.55	-0.57	50.98	74.00	-23.02
4705.920	Average	40.37	-0.57	39.80	54.00	-14.20
5147.280	Peak	55.48	1.73	57.22	74.00	-16.78
5147.280	Average	45.24	1.73	46.97	54.00	-7.03
5150.000	Peak	55.31	1.76	57.06	74.00	-16.94
5150.000	Average	45.62	1.76	47.38	54.00	-6.62

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5210 MHz

Test Mode :Bandedge

EUT Pol :H Plane

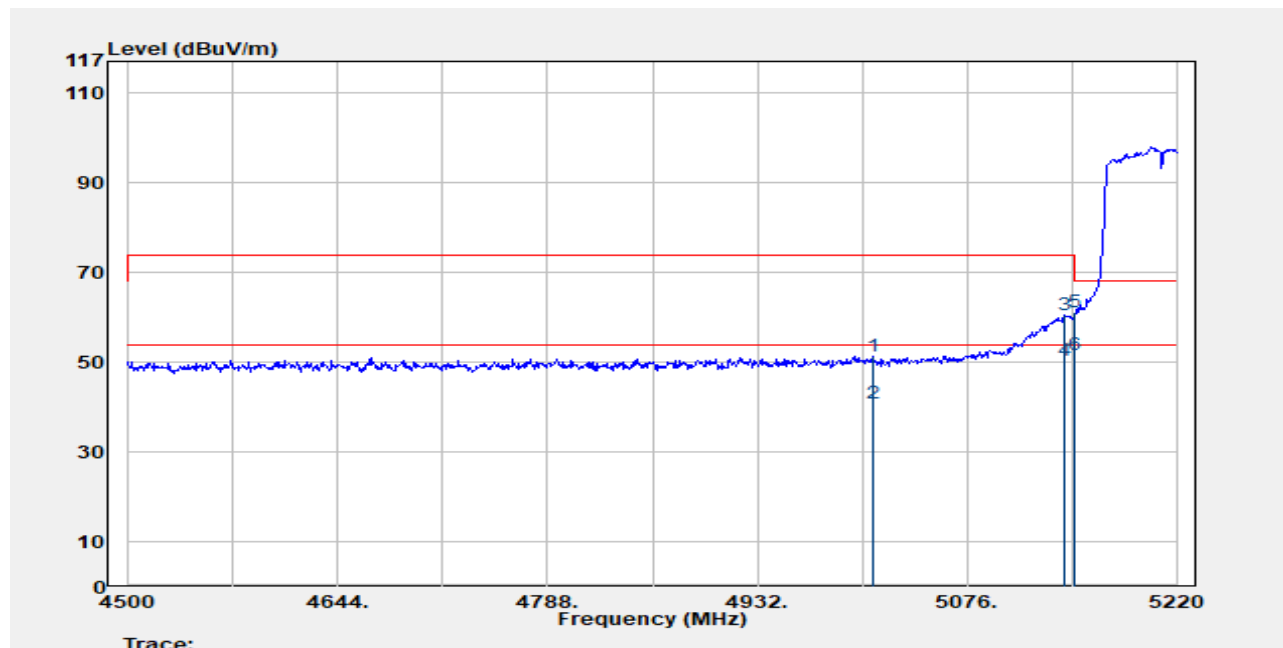
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5011.200	Peak	50.71	0.62	51.33	74.00	-22.67
5011.200	Average	40.20	0.62	40.82	54.00	-13.18
5142.960	Peak	58.75	1.69	60.44	74.00	-13.56
5142.960	Average	48.66	1.69	50.35	54.00	-3.65
5150.000	Peak	59.31	1.76	61.07	74.00	-12.93
5150.000	Average	49.82	1.76	51.58	54.00	-2.42

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5290 MHz

Test Mode :Bandedge

EUT Pol :H Plane

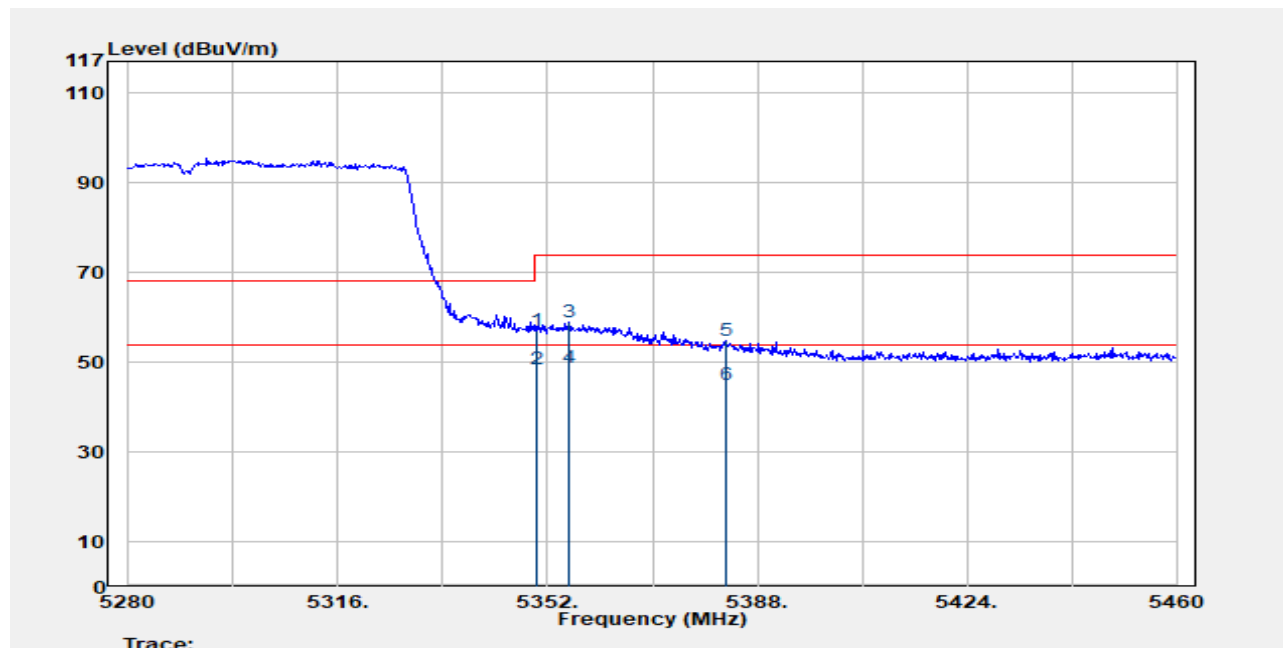
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	Peak	56.14	0.83	56.97	74.00	-17.03
5350.000	Average	47.82	0.83	48.65	54.00	-5.35
5355.780	Peak	58.04	0.84	58.88	74.00	-15.12
5355.780	Average	47.88	0.84	48.72	54.00	-5.28
5382.780	Peak	54.04	0.88	54.91	74.00	-19.09
5382.780	Average	44.09	0.88	44.97	54.00	-9.03

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5290 MHz

Test Mode :Bandedge

EUT Pol :H Plane

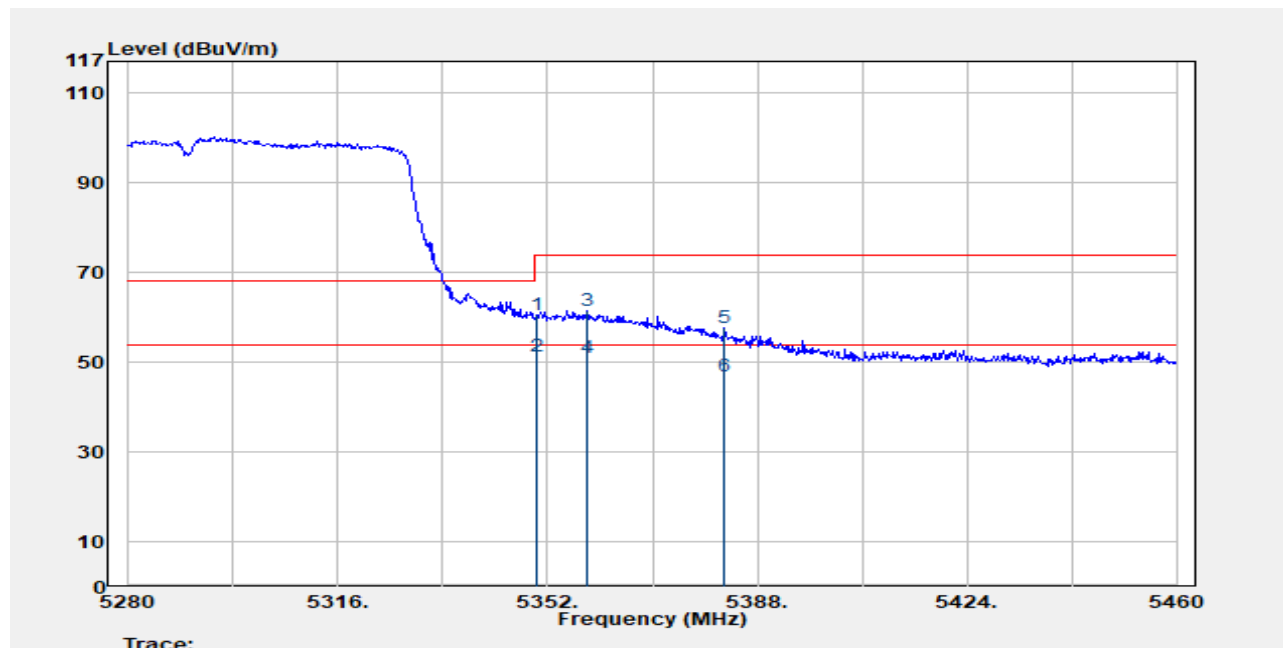
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	Peak	59.81	0.83	60.64	74.00	-13.36
5350.000	Average	50.39	0.83	51.22	54.00	-2.78
5358.660	Peak	60.60	0.84	61.44	74.00	-12.56
5358.660	Average	50.13	0.84	50.97	54.00	-3.03
5382.420	Peak	56.76	0.88	57.63	74.00	-16.37
5382.420	Average	46.02	0.88	46.90	54.00	-7.10

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5530 MHz

Test Mode :Bandedge

EUT Pol :H Plane

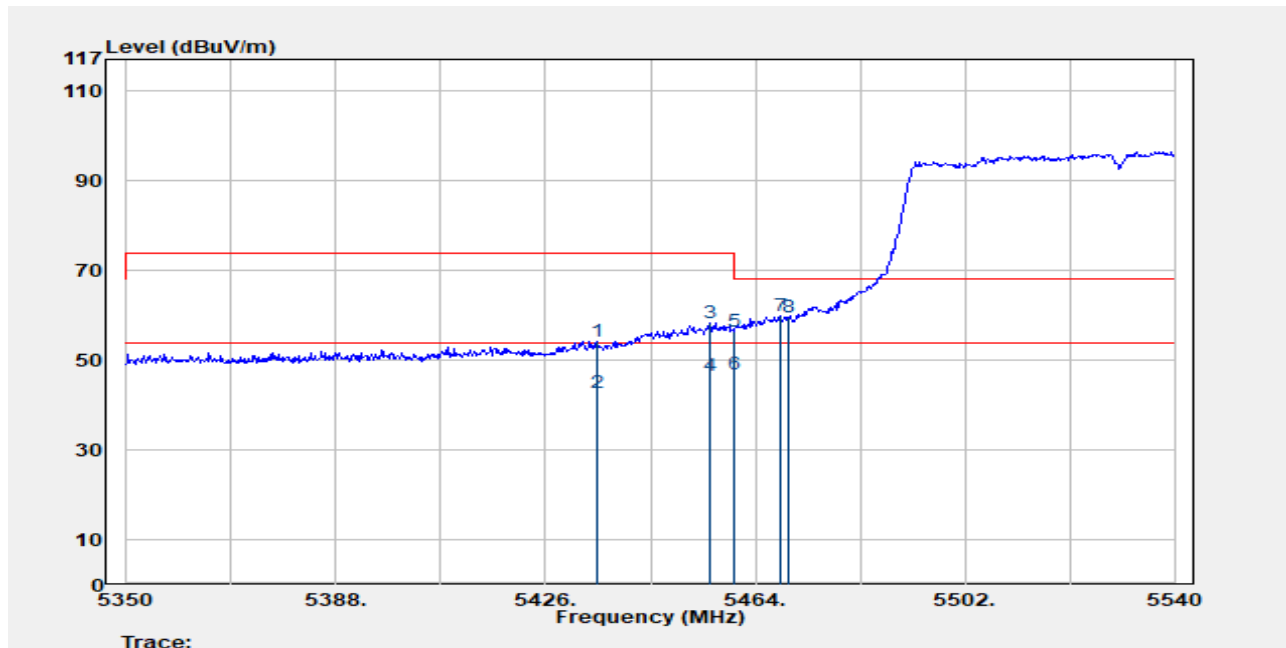
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5435.500	Peak	53.24	1.13	54.36	74.00	-19.64
5435.500	Average	41.70	1.13	42.83	54.00	-11.17
5455.640	Peak	57.22	1.25	58.46	74.00	-15.54
5455.640	Average	45.39	1.25	46.64	54.00	-7.36
5460.000	Peak	55.31	1.26	56.58	74.00	-17.42
5460.000	Average	45.76	1.26	47.02	54.00	-6.98
5468.560	Peak	58.68	1.30	59.98	68.20	-8.22
5470.000	Peak	58.33	1.31	59.64	68.20	-8.56

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5530 MHz

Test Mode :Bandedge

EUT Pol :H Plane

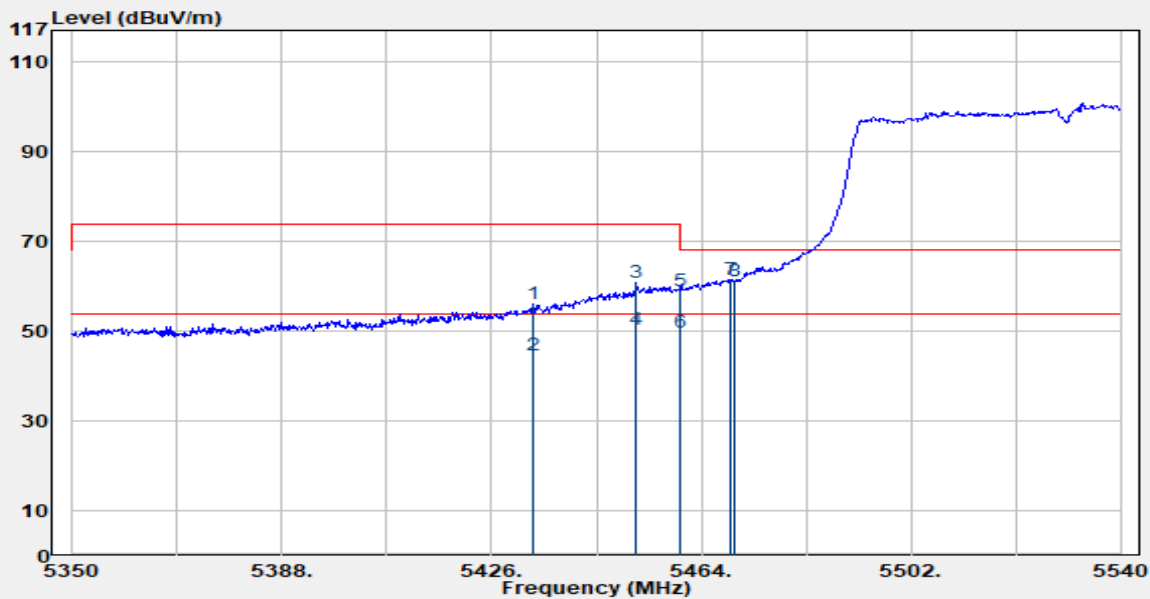
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5433.600	Peak	54.92	1.12	56.04	74.00	-17.96
5433.600	Average	43.64	1.12	44.76	54.00	-9.24
5452.220	Peak	59.73	1.23	60.96	74.00	-13.04
5452.220	Average	49.22	1.23	50.45	54.00	-3.55
5460.000	Peak	57.79	1.26	59.06	74.00	-14.94
5460.000	Average	48.64	1.26	49.90	54.00	-4.10
5469.320	Peak	60.33	1.31	61.64	68.20	-6.56
5470.000	Peak	59.94	1.31	61.25	68.20	-6.95

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5610 MHz

Test Mode :Bandedge

EUT Pol :H Plane

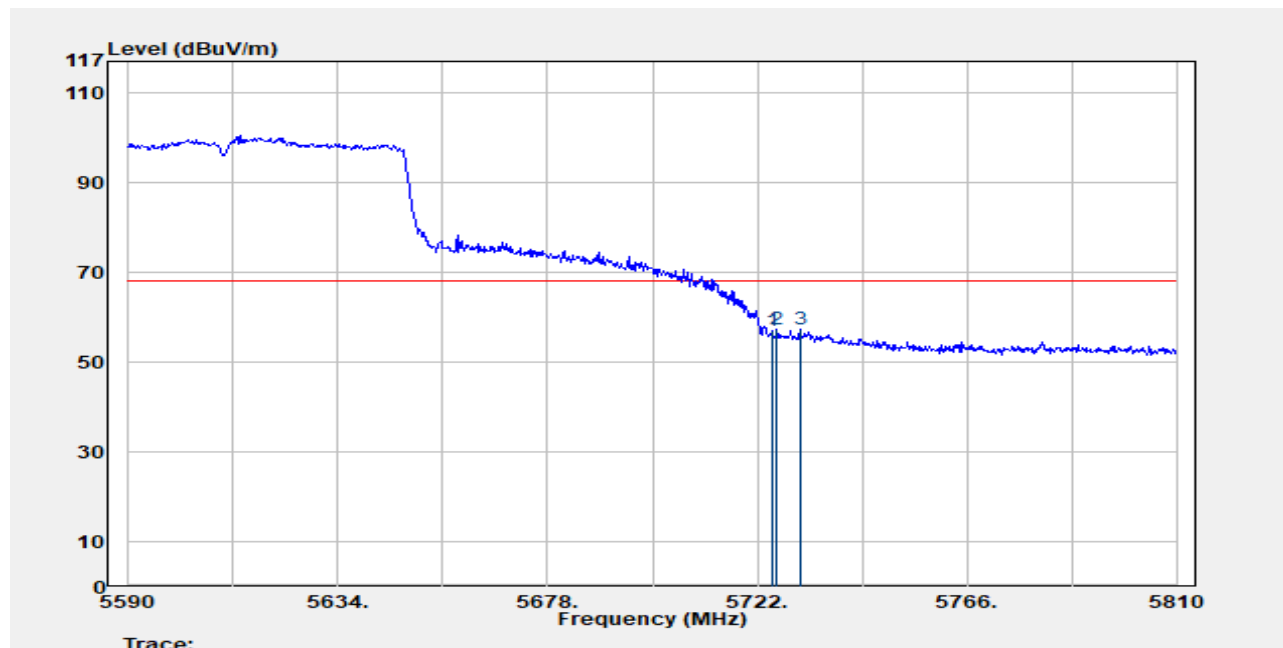
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	54.56	2.57	57.13	68.20	-11.07
5726.180	Peak	54.92	2.58	57.50	68.20	-10.70
5731.020	Peak	54.69	2.60	57.29	68.20	-10.91

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5610 MHz

Test Mode :Bandedge

EUT Pol :H Plane

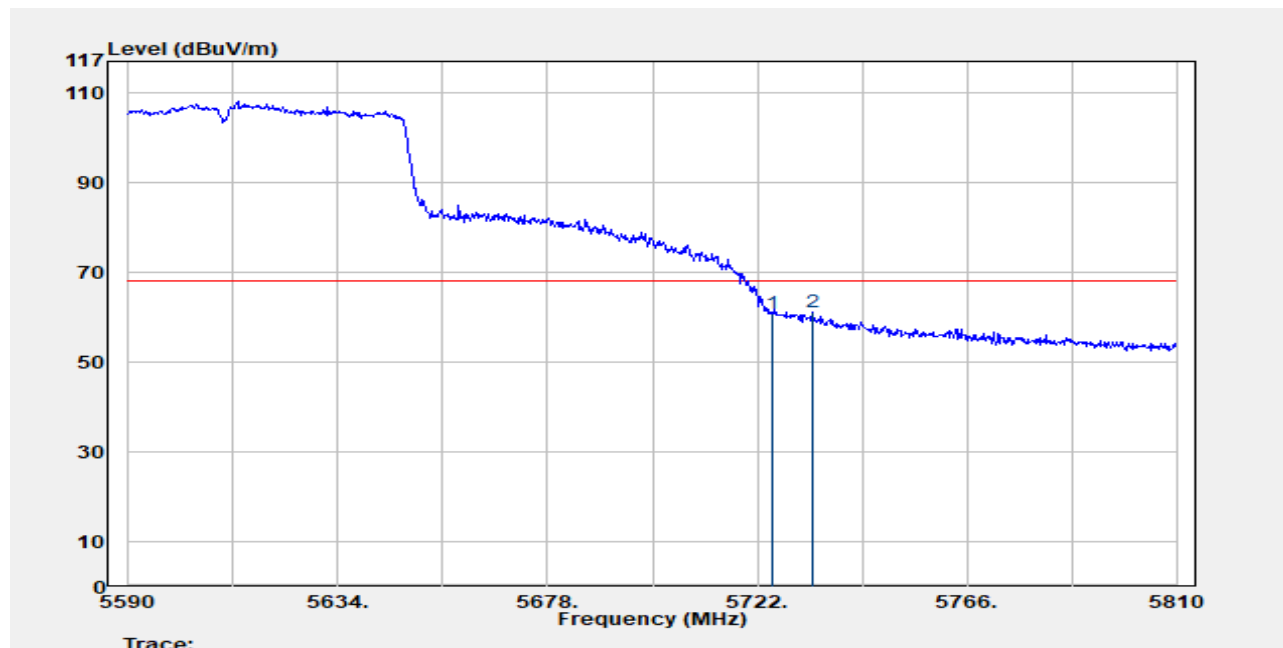
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	58.41	2.57	60.98	68.20	-7.22
5733.660	Peak	58.43	2.61	61.04	68.20	-7.16

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5690 MHz

Test Mode :Bandedge

EUT Pol :H Plane

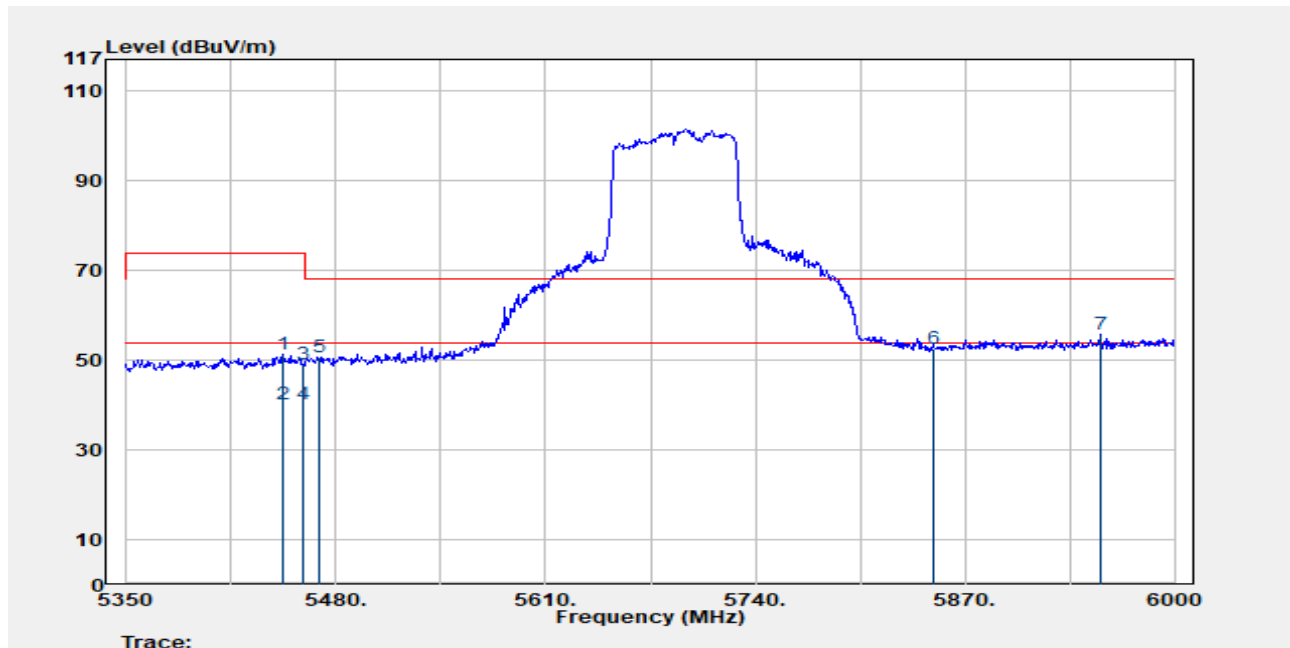
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5446.850	Peak	50.15	1.20	51.35	74.00	-22.65
5446.850	Average	39.08	1.20	40.28	54.00	-13.72
5460.000	Peak	48.02	1.26	49.28	74.00	-24.72
5460.000	Average	38.95	1.26	40.21	54.00	-13.79
5470.000	Peak	49.51	1.31	50.82	68.20	-17.38
5850.000	Peak	49.01	3.49	52.50	68.20	-15.70
5953.850	Peak	51.43	4.28	55.71	68.20	-12.49

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5690 MHz

Test Mode :Bandedge

EUT Pol :H Plane

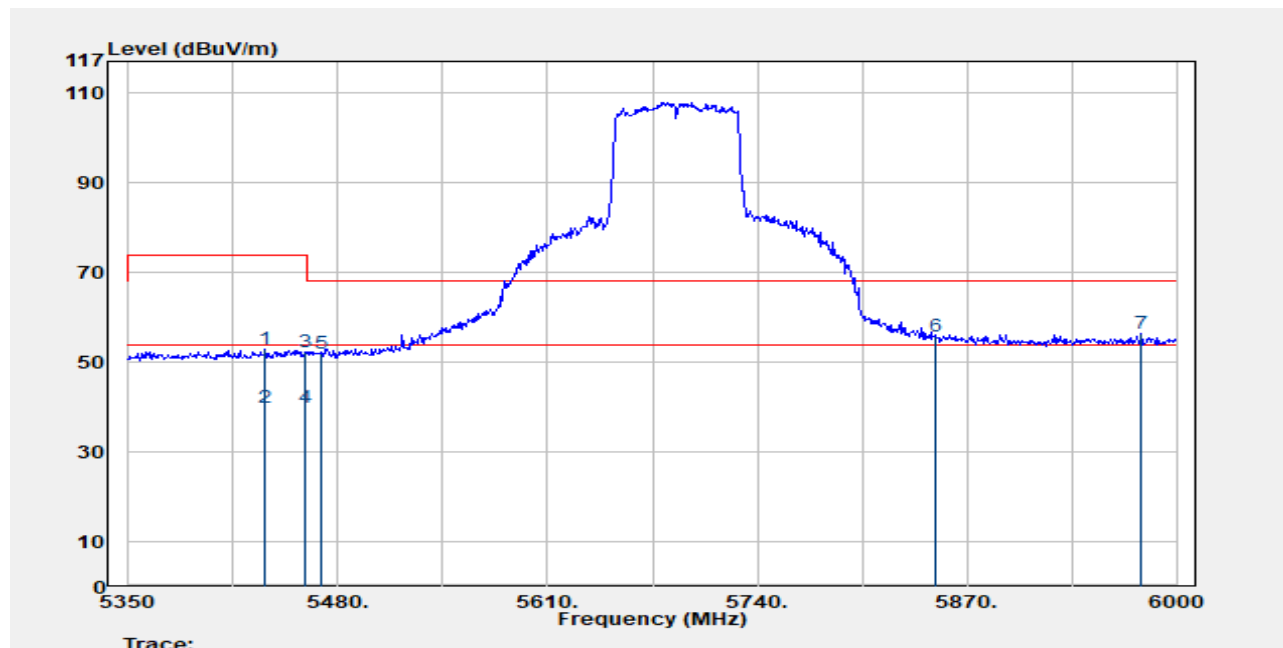
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5434.500	Peak	51.73	1.12	52.85	74.00	-21.15
5434.500	Average	38.81	1.12	39.93	54.00	-14.07
5460.000	Peak	51.16	1.26	52.43	74.00	-21.57
5460.000	Average	38.81	1.26	40.07	54.00	-13.93
5470.000	Peak	50.76	1.31	52.07	68.20	-16.13
5850.000	Peak	52.30	3.49	55.78	68.20	-12.42
5978.550	Peak	51.90	4.39	56.29	68.20	-11.91

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5775 MHz

Test Mode :Bandedge

EUT Pol :H Plane

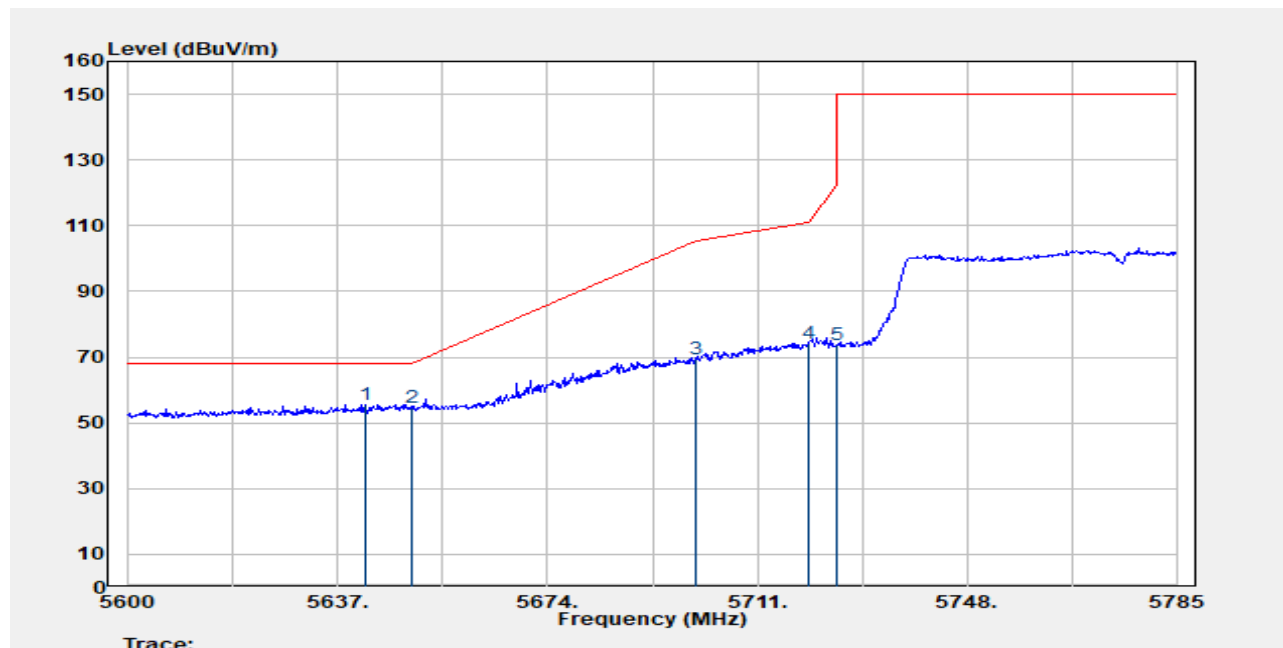
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3℃/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5641.810	Peak	53.54	2.16	55.70	68.20	-12.50
5650.000	Peak	52.63	2.17	54.80	68.20	-13.40
5700.000	Peak	66.72	2.45	69.17	105.20	-36.03
5720.000	Peak	71.65	2.55	74.19	110.80	-36.61
5725.000	Peak	71.01	2.57	73.58	122.20	-48.62

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5775 MHz

Test Mode :Bandedge

EUT Pol :H Plane

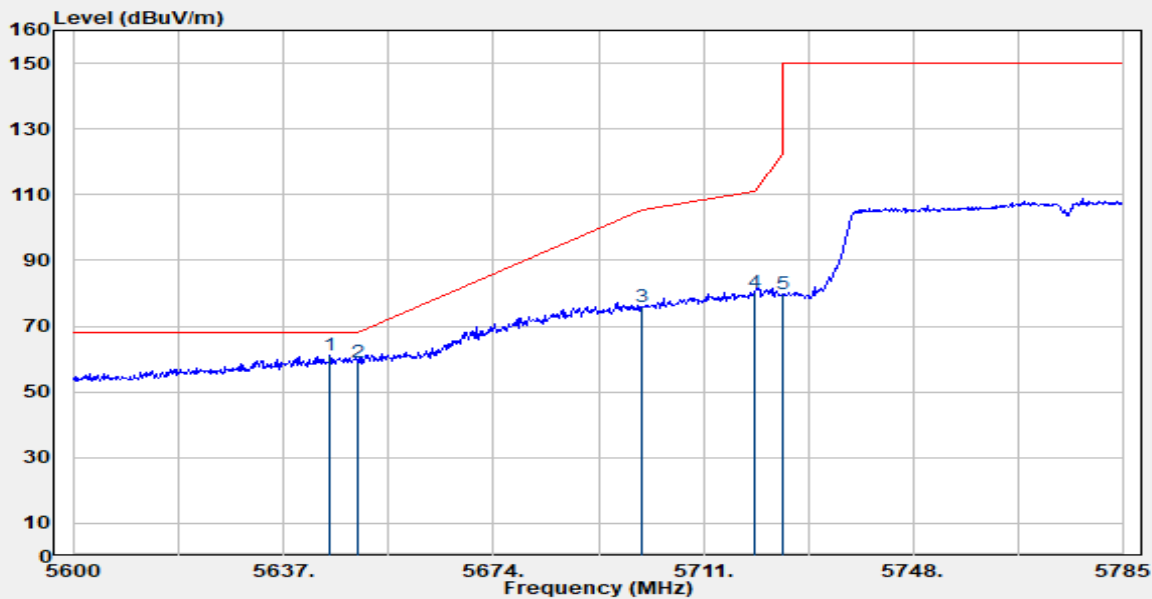
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5645.140	Peak	58.87	2.16	61.03	68.20	-7.17
5650.000	Peak	56.92	2.17	59.09	68.20	-9.11
5700.000	Peak	73.42	2.45	75.87	105.20	-29.33
5720.000	Peak	77.60	2.55	80.15	110.80	-30.65
5725.000	Peak	77.40	2.57	79.97	122.20	-42.23

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5775 MHz

Test Mode :Bandedge

EUT Pol :H Plane

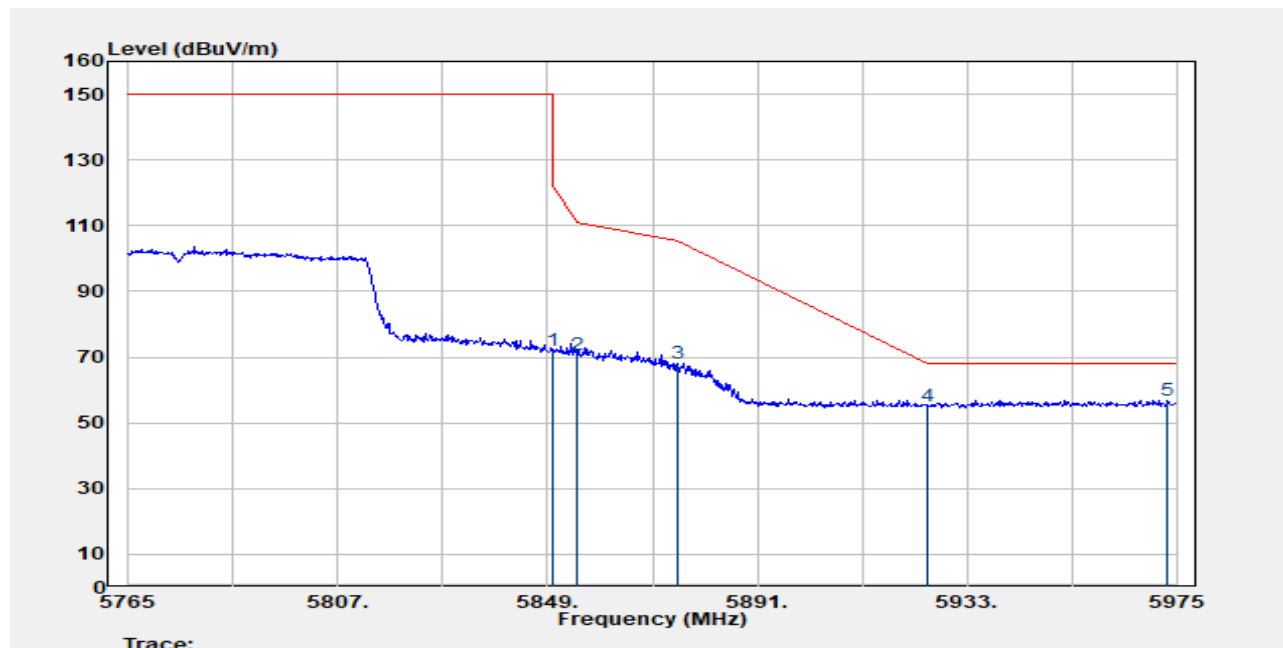
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Vertical

Engineer :Nick Lin



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	68.64	3.49	72.13	122.20	-50.07
5855.000	Peak	67.10	3.55	70.65	110.80	-40.15
5875.000	Peak	64.34	3.81	68.15	105.20	-37.05
5925.000	Peak	50.89	4.20	55.09	68.20	-13.11
5973.320	Peak	52.43	4.37	56.80	68.20	-11.40

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Report Number :TERF2402000303E2

Operation Mode :802.11ac80

Test Frequency :5775 MHz

Test Mode :Bandedge

EUT Pol :H Plane

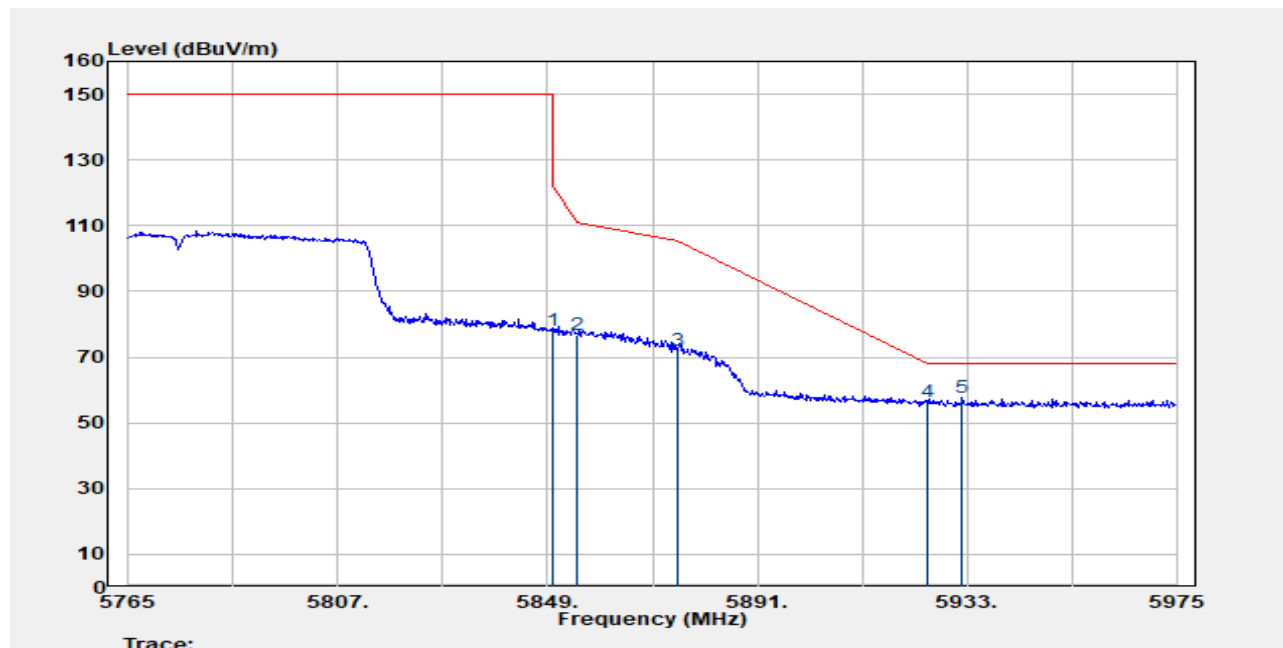
Test Site :SAC 3

Test Date :2024-02-23

Temp./Humi. :22.3°C/63%

Antenna Pol. :Horizontal

Engineer :Nick Lin



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	74.65	3.49	78.13	122.20	-44.07
5855.000	Peak	73.36	3.55	76.91	110.80	-33.89
5875.000	Peak	68.06	3.81	71.87	105.20	-33.33
5925.000	Peak	51.95	4.20	56.15	68.20	-12.05
5932.160	Peak	53.27	4.22	57.49	68.20	-10.71

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

13.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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