ELECTROMAGNETIC EMISSIONS COMPLIANCE TEST REPORT

Applicant:	CASTLES TECHNOLOGY CO., LTD. 6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231030, TAIWAN (R.O.C)
Manufacturer:	CASTLES TECHNOLOGY CO., LTD. 6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231030, TAIWAN (R.O.C)
Product Name:	Smart module
Brand Name:	CASTLES TECHNOLOGY
Model No.:	SLM500
Report Number:	TERF2408002261E2
FCC ID	WIYSLM500QA
IC:	27350-SLM500QA
Date of EUT Received:	August 1, 2024
Date of Test:	August 12, 2024～September 3, 2024
Issue Date:	October 8, 2024

Approved By Arno Hsieh

Arno Hsieh

We hereby certify that:

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2408002261E2	00	Original	September 5, 2024	Susan Lin	
TERF2408002261E2	01	Update section 8.2 and remove VHT data	October 8, 2024	Susan Lin	*

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Smart module
Brand Name:	CASTLES TECHNOLOGY
Model No.:	SLM500
Hardware Version:	V1F.00
Firmware Version:	N/A
EUT Series No.:	196242025224
Product Name of Host:	POS Terminal
Brand Name of Host:	CASTLES TECHNOLOGY
Model No. of Host:	S1E2-UPT
Power Supply:	9Vdc from Adapter
Test Software (Name/Version):	Qualcomm Radio Control Tool 4.0.00161.0

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a,11n
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

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	ADVANCED WIRELESS & ANTENNA INC.	S1E2-UPT-WiFi	5150~5250	1.89
			5250~5350	2.23
			5470~5725	1.54
			5725~5850	0.98

Note: Antenna information is provided by the applicant.

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1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20	5180~5240	4	13.89 dBm	OFDM
	5260~5320	4	14.32 dBm	OFDM
	5500~5700	11	14.48 dBm	OFDM
	5745-5825	5	14.25 dBm	OFDM
802.11n_HT40	5190~5230	2	13.05 dBm	OFDM
	5270~5310	2	13.31 dBm	OFDM
	5510~5670	5	14.89 dBm	OFDM
	5755-5795	2	14.22 dBm	OFDM

1.5 ISED

WLAN 5 GHz for ISED (Slave)

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20	5180~5240	4	EIRP	15.78 dBm	OFDM
	5260~5320	4	Avg	14.32 dBm	OFDM
	5500~5700	8	Avg	14.48 dBm	OFDM
	5745-5825	5	Avg	14.25 dBm	OFDM
802.11n_HT40	5190~5230	2	EIRP	14.94 dBm	OFDM
	5270~5310	2	Avg	13.31 dBm	OFDM
	5510~5670	3	Avg	14.89 dBm	OFDM
	5755-5795	2	Avg	14.22 dBm	OFDM

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1.6 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
RSS-247 issue 3 Aug. 2023
RSS-Gen, Issue 5 April 2018
ANSI C63.10:2013

1.7 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC 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.

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1.8 Special Accessories

There are no special accessories used while test was conducted.

1.9 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Test (RF)

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

2.3.2 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

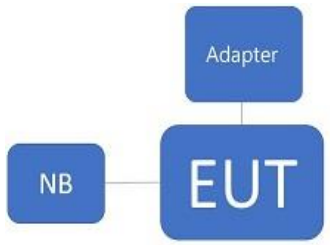
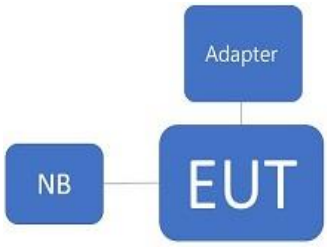
2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.
There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

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

2.5 Test Configuration

Conducted Setup	Radiated Setup
	

2.6 Control Unit(s)

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB Cable	I Max	USB-C1200	N/A	N/A	N/A
AC Adapter	Castles	PW04-945A	N/A	N/A	N/A
Cable	HOMESHUN	CABLE FOR S1U2 HSG 4.2PITCH 2X3P FEMALE AND RJ45 8P8C FEMALE X2 TO HSG 2X10P 2.0PITCH L:750MM	N/A	N/A	N/A
Cable	TAI-CHING	CABLE FOR MARS1000 DC JACK	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A

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Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB Cable	I Max	USB-C1200	N/A	N/A	N/A
AC Adapter	Castles	PW04-945A	N/A	N/A	N/A
Cable	HOMESHUN	CABLE FOR S1U2 HSG 4.2PITCH 2X3P FEMALE AND RJ45 8P8C FEMALE X2 TO HSG 2X10P 2.0PITCH L:750MM	N/A	N/A	N/A
Cable	TAI-CHING	CABLE FOR MARS1000 DC JACK	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A

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3 SUMMARY OF TEST RESULT

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

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

Operated band in 5150 MHz ~5250 MHz:

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

40 M	
CH	Freq (MHz)
38	5190
46	5230

Operated band in 5250 MHz ~5350 MHz:

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

40 M	
CH	Freq (MHz)
54	5270
62	5310

Operated band in 5470 MHz ~5725 MHz:

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

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

Operated band in 5725 MHz ~5850 MHz:

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

40 M	
CH	Freq (MHz)
151	5755
159	5795

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4.2 The Worst Test Modes and Channel Details

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

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
☒ 802.11 a	☒ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☒ 1TX	☐ 2TX
☒ 802.11 n	☒ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☒ SISO	☐ MIMO

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			
	5500~5700	100 to 140	100,116,140			
	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			
	5500~5700	100 to 140	100,116,140			
	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			
	5510~5670	102 to 134	102,110,134			
	5755~5795	151 to 159	151,159			

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	ch0
	5260~5320	52 to 64	60			
	5500~5720	100 to 144	116			
	5745~5825	149 to 165	157			

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	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			

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

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty		
Output Power measurement	+/-	0.97	dB
Emission Bandwidth	+/-	1.38	Hz
Conducted emission measurement	+/-	0.77	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 Condcuted Measurement

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Marvelous	MVE2213-10	RF10	11/15/2023	11/14/2024
DC Block	MITEQ	W70289-5108	RF159	11/15/2023	11/14/2024
Power Meter	Anritsu	ML2496A	1804002	04/26/2024	04/25/2025
Power Sensor	Anritsu	MA2411B	1726105	04/26/2024	04/25/2025
Power Sensor	Anritsu	MA2411B	1726106	04/26/2024	04/25/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
Test Software	SGS Taiwan	Dynamic Frequency Selection Test	Ver. 22.01.24	N.C.R	N.C.R

6.2 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
3m Site NSA	SGS	966 chamber C	N/A	03/02/2024	03/01/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
Attenuator	Woken	WATT-218FS-10	RF17	11/15/2023	11/14/2024
Band Rejection Filter	Micro-Tronics	G015	RF198	11/15/2023	11/14/2024
Band Rejection Filter	Micro-Tronics	G016	RF199	11/15/2023	11/14/2024
Band Rejection Filter	Micro-Tronics	G021	RF200	11/15/2023	11/14/2024
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/02/2023	11/01/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM-9100	150704	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W22.03	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	MY17388/4	11/15/2023	11/14/2024
EMI Test Receiver	R&S	ESU 40	100363	04/30/2024	04/29/2025
High Pass Filter	Titan Microwave	T04H86002600060 S01	210619-2-8	11/15/2023	11/14/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/24/2024	01/23/2025
Horn Antenna	Schwarzbeck	BBHA9170	184	12/28/2023	12/27/2024
Lowpass Filter	Woken	EWT-56-0019	RF173	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC330	980096	11/15/2023	11/14/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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7 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

7.1.1 Duty Cycle

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

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

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7.1.2 Output Power

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

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

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FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4		
			EIRP	Conducted Output Power	TPC
5150~5250		OEM devices installed in vehicles	30 mW or 1.76 + 10 log10B	N/A	At least 3dB below 30mW EIRP
	V	Other device	200 mW or 10 + 10 log10B dBm	N/A	N/A
5250~5350		OEM devices installed in vehicles	30 mW or 1.76 + 10 log10B	N/A	At least 3dB below 30mW EIRP
	V	Other device	1.0 W or 17 + 10 log10B dBm	250 mW or 11 +10 log10B	EIRP >500mW, at least 6dB below 1W EIRP
		Outdoor Fixed with EIRP>200mW	-13 dBW/MHz for 0°≤ θ< 8° -13 −0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40° -35.9 −1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤45° -42 dBW/MHz for θ > 45°	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	V	All	1.0 W or 17 + 10 log10B dBm	250 mW or 11 +10 log10B	EIRP >500mW, at least 6dB below 1W EIRP
5725~5850	V	All	N/A	1 W	N/A

1 For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 10 log B, B is the 99% emission bandwidth.

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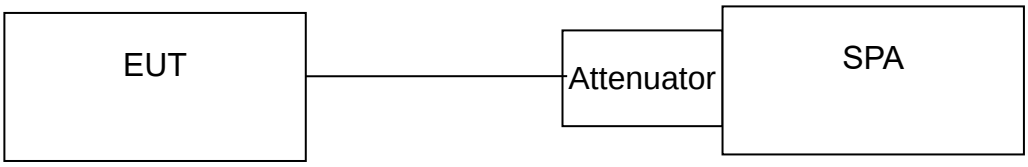
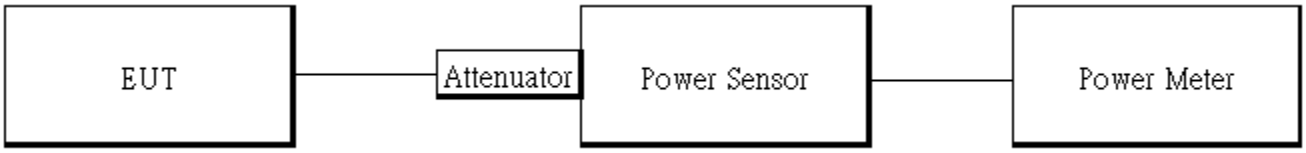
7.2 Test Setup

7.2.1 Duty Cycle



7.2.2 Output Power



7.3 Measurement Procedure

7.3.1 Duty Cycle Measurements

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

7.3.2 Output Power Measurements

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

7.4 Duty Cycle Measurement Result

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	87.29	0.59	0.74	1.00
802.11n_20	86.53	0.63	0.79	1.00
802.11n_40	75.96	1.19	1.58	2.00

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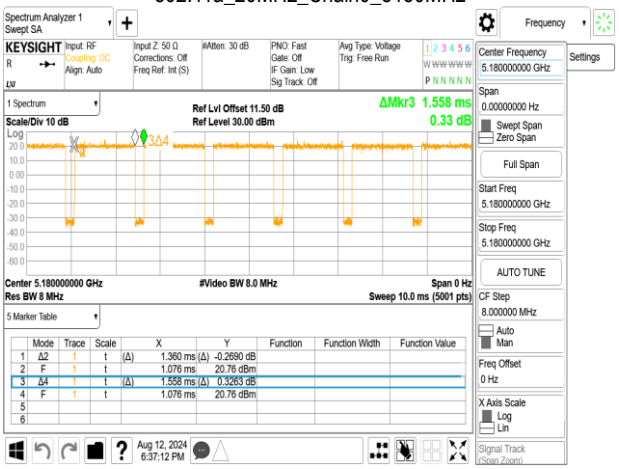
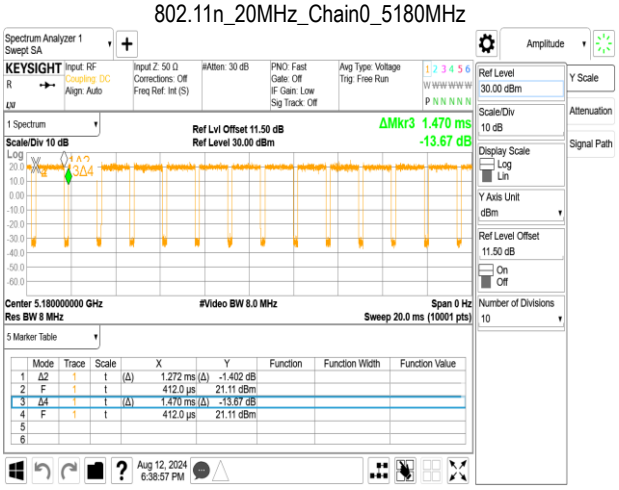
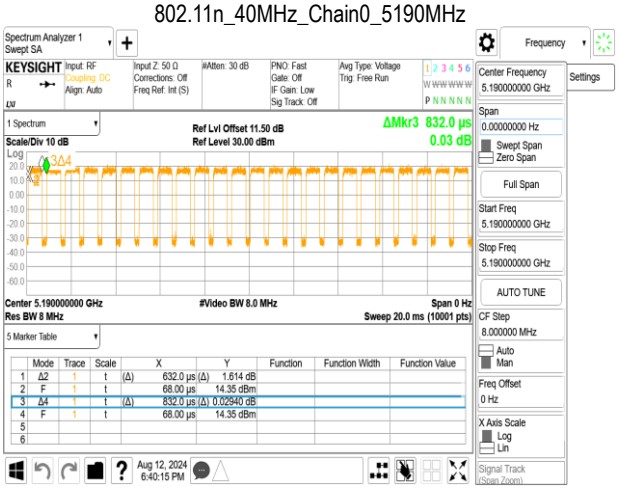
802.11a_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_40MHz_Chain0_5190MHz



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7.5 Output Power Measurement Result

7.5.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	13	24.493	**13.89**	23.98	PASS
44	5220	6	13.5	23.825	13.77	23.98	PASS
48	5240	6	13.5	23.716	13.75	23.98	PASS
52	5260	6	14	26.856	14.29	23.98	PASS
60	5300	6	12.5	22.235	13.47	23.98	PASS
64	5320	6	14	27.042	**14.32**	23.98	PASS
100	5500	6	13	27.292	14.36	23.98	PASS
116	5580	6	13	28.057	**14.48**	23.98	PASS
140	5700	6	12.5	20.466	13.11	23.98	PASS
149	5745	6	15.5	21.040	13.23	30	PASS
157	5785	6	16.5	26.609	**14.25**	30	PASS
165	5825	6	15	20.372	13.09	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13	24.201	**13.84**	23.98	PASS
44	5220	MCS0	13	21.569	13.34	23.98	PASS
48	5240	MCS0	13	22.379	13.50	23.98	PASS
52	5260	MCS0	13.5	24.651	**13.92**	23.98	PASS
60	5300	MCS0	12	20.269	13.07	23.98	PASS
64	5320	MCS0	13.5	24.425	13.88	23.98	PASS
100	5500	MCS0	13	27.405	14.38	23.98	PASS
116	5580	MCS0	13	28.044	**14.48**	23.98	PASS
140	5700	MCS0	12.5	21.224	13.27	23.98	PASS
149	5745	MCS0	16	25.051	**13.99**	30	PASS
157	5785	MCS0	16	24.145	13.83	30	PASS
165	5825	MCS0	15	20.551	13.13	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	10.5	12.145	10.84	23.98	PASS
46	5230	MCS0	13	20.203	**13.05**	23.98	PASS
54	5270	MCS0	13	21.449	**13.31**	23.98	PASS
62	5310	MCS0	10.5	12.925	11.11	23.98	PASS
102	5510	MCS0	10.5	15.755	11.97	23.98	PASS
110	5550	MCS0	14	30.861	**14.89**	23.98	PASS
134	5670	MCS0	12	20.579	13.13	23.98	PASS
151	5755	MCS0	16.5	26.449	**14.22**	30	PASS
159	5795	MCS0	16	23.791	13.76	30	PASS

7.5.2 ISED Conducted output power and EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	26.856	14.29	23.98	PASS
60	5300	22.235	13.47	23.98	PASS
64	5320	**27.042**	**14.32**	23.98	PASS
100	5500	27.292	14.36	23.98	PASS
116	5580	**28.057**	**14.48**	23.98	PASS
140	5700	20.466	13.11	23.98	PASS
149	5745	21.040	13.23	30	PASS
157	5785	**26.609**	**14.25**	30	PASS
165	5825	20.372	13.09	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	**24.651**	**13.92**	23.98	PASS
60	5300	20.269	13.07	23.98	PASS
64	5320	24.425	13.88	23.98	PASS
100	5500	27.405	14.38	23.98	PASS
116	5580	**28.044**	**14.48**	23.98	PASS
140	5700	21.224	13.27	23.98	PASS
149	5745	**25.051**	**13.99**	30	PASS
157	5785	24.145	13.83	30	PASS
165	5825	20.551	13.13	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
54	5270	**21.449**	**13.31**	23.98	PASS
62	5310	12.925	11.11	23.98	PASS
102	5510	15.755	11.97	23.98	PASS
110	5550	**30.861**	**14.89**	23.98	PASS
134	5670	20.579	13.13	23.98	PASS
151	5755	**26.449**	**14.22**	30	PASS
159	5795	23.791	13.76	30	PASS

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	**13.89**	1.89	**37.844**	**15.78**	23.01	PASS
44	5220	13.77	1.89	36.813	15.66	23.01	PASS
48	5240	13.75	1.89	36.644	15.64	23.01	PASS
52	5260	14.29	2.23	44.875	16.52	30	PASS
60	5300	13.47	2.23	37.154	15.70	30	PASS
64	5320	**14.32**	2.23	**45.186**	**16.55**	30	PASS
100	5500	14.36	1.54	38.905	15.90	30	PASS
116	5580	**14.48**	1.54	**39.994**	**16.02**	30	PASS
140	5700	**13.11**	1.54	**29.174**	**14.65**	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	**13.84**	1.89	**37.411**	**15.73**	23.01	PASS
44	5220	13.34	1.89	33.343	15.23	23.01	PASS
48	5240	13.50	1.89	34.594	15.39	23.01	PASS
52	5260	**13.92**	2.23	**41.210**	**16.15**	30	PASS
60	5300	13.07	2.23	33.884	15.30	30	PASS
64	5320	13.88	2.23	40.832	16.11	30	PASS
100	5500	14.38	1.54	39.084	15.92	30	PASS
116	5580	**14.48**	1.54	**39.994**	**16.02**	30	PASS
140	5700	**13.27**	1.54	**30.269**	**14.81**	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	10.84	1.89	18.750	12.73	23.01	PASS
46	5230	**13.05**	1.89	**31.189**	**14.94**	23.01	PASS
54	5270	**13.31**	2.23	**35.810**	**15.54**	30	PASS
62	5310	11.11	2.23	21.577	13.34	30	PASS
102	5510	11.97	1.54	22.439	13.51	30	PASS
110	5550	**14.89**	1.54	**43.954**	**16.43**	30	PASS
134	5670	**13.13**	1.54	**29.309**	**14.67**	30	PASS

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8 UNDESIRABLE RADIATED EMISSION MEASUREMENT

8.1 Standard Applicable

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

8.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dBμV/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	f ≤ 5150 f ≥ 5350	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725	f ≤ 5470 f ≥ 5725		
15.407(b)(4)(i) RSS-247 §6.2.4.2	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

8.1.2 Spurious Emission

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

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

Note:

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

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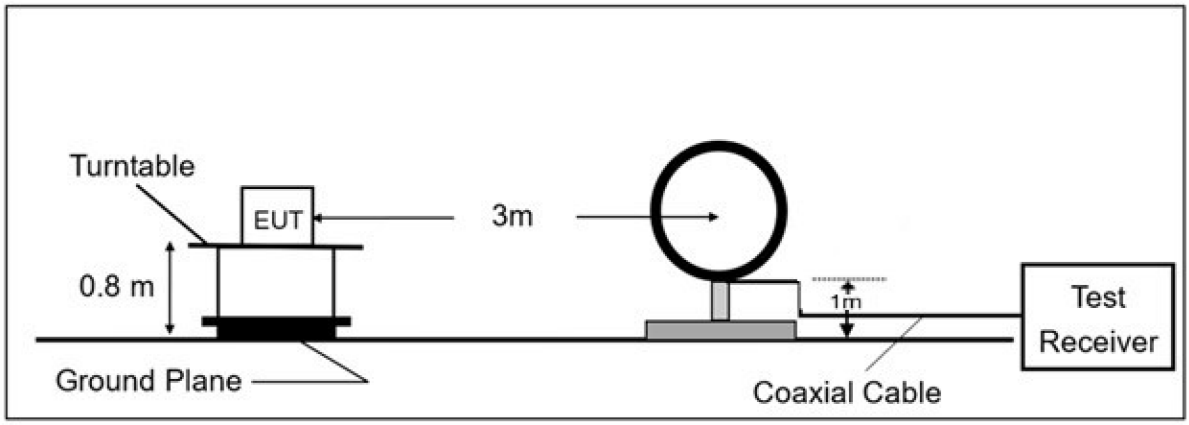
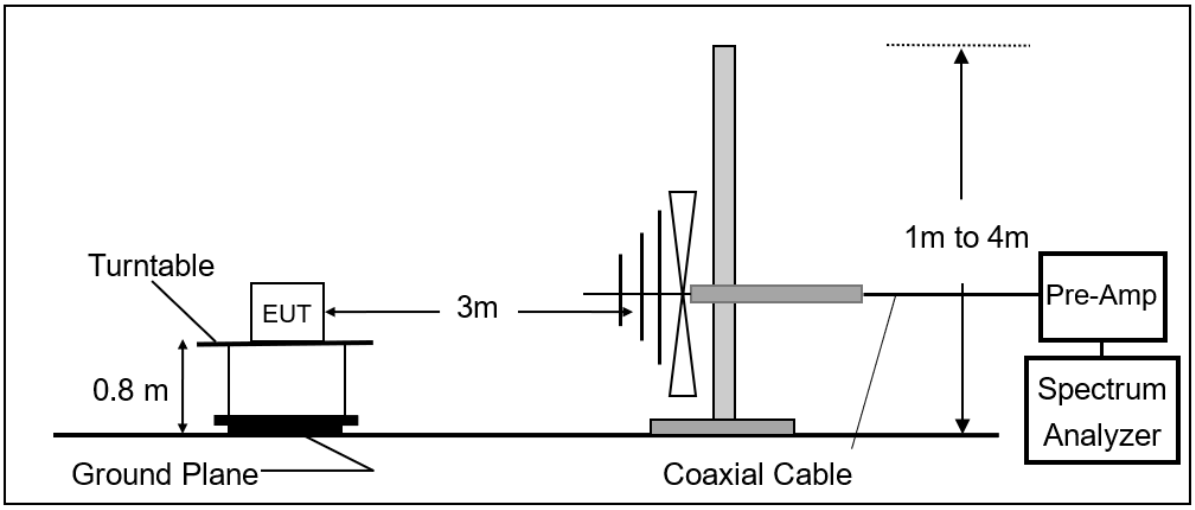
8.2 Test Setup

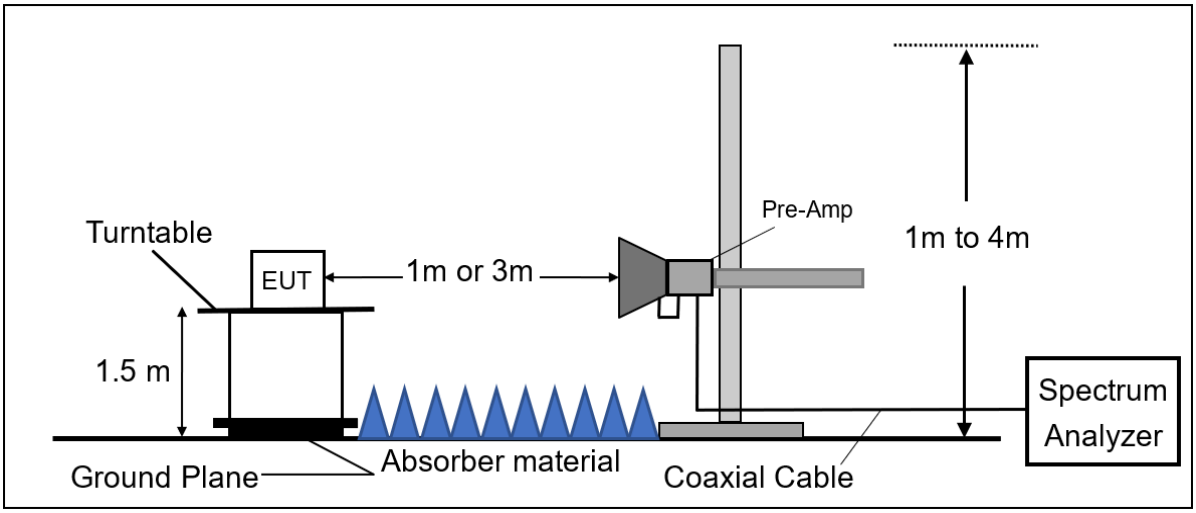
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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8.3 Measurement Procedure

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

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8.4 Field Strength Calculation

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

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

Where *FS = Field Strength*
RA = Reading Amplitude
AF = Antenna Factor
CL = Cable Attenuation Factor (Cable Loss)
AG = Amplifier Gain

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

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

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

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

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

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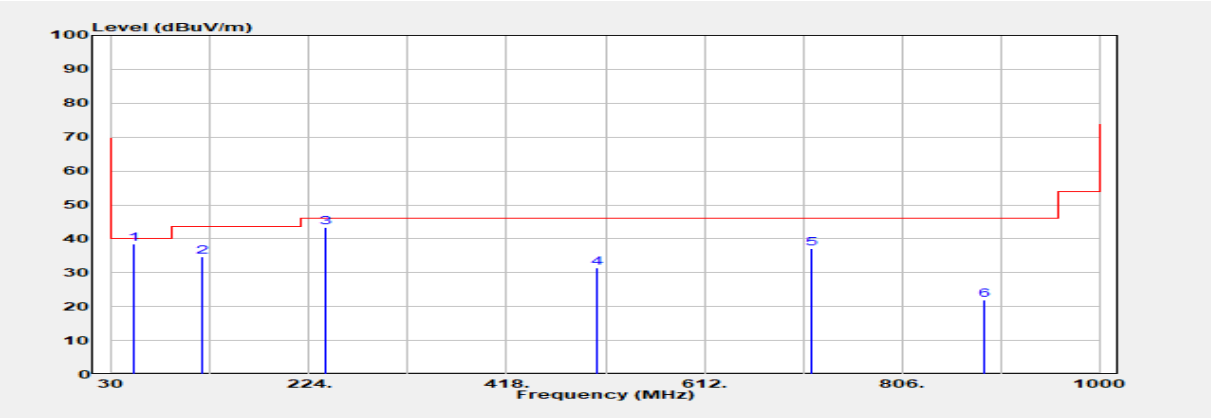
8.6 Radiated Spurious Emission Measurement Result

8.6.1 Spurious Emission

Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-19
Test Frequency	:5220 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
51.340	QP	53.70	-15.19	38.51	40.00	-1.49
118.270	QP	52.80	-18.14	34.66	43.50	-8.84
240.490	QP	60.60	-17.18	43.42	46.00	-2.58
507.240	Peak	40.76	-9.19	31.56	46.00	-14.44
716.760	Peak	42.08	-5.00	37.08	46.00	-8.92
887.480	QP	24.30	-2.32	21.98	46.00	-24.02

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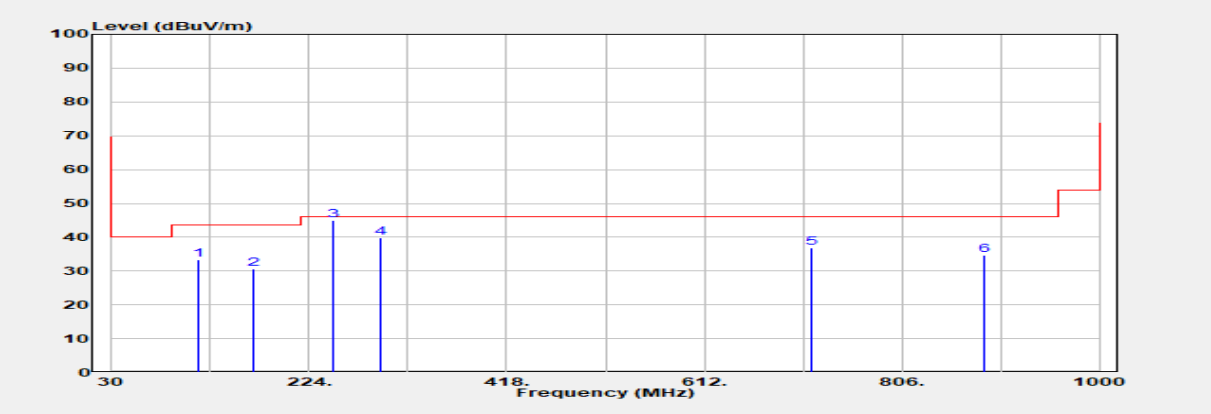
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-19
Test Frequency	:5220 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
115.360	QP	51.90	-18.67	33.23	43.50	-10.27
169.680	QP	46.91	-16.31	30.60	43.50	-12.90
247.280	QP	61.80	-16.90	44.90	46.00	-1.10
293.840	Peak	55.06	-15.16	39.89	46.00	-6.11
717.730	Peak	41.79	-4.94	36.85	46.00	-9.15
887.480	Peak	36.96	-2.32	34.64	46.00	-11.36

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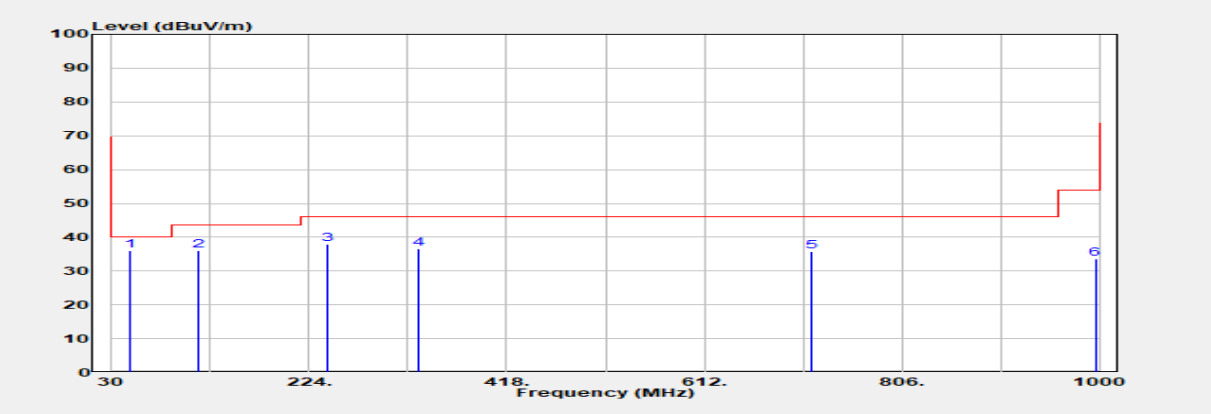
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-19
Test Frequency	:5300 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
48.430	QP	51.20	-15.26	35.94	40.00	-4.06
115.360	QP	54.70	-18.67	36.03	43.50	-7.47
242.430	QP	55.00	-17.08	37.92	46.00	-8.08
331.670	Peak	50.12	-13.64	36.48	46.00	-9.52
717.730	Peak	40.72	-4.94	35.78	46.00	-10.22
996.120	Peak	34.42	-0.95	33.48	54.00	-20.52

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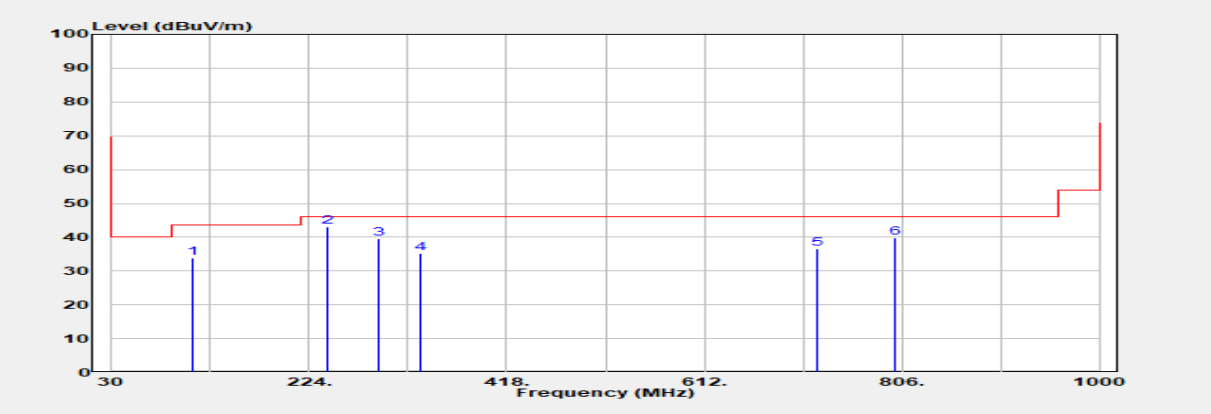
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-19
Test Frequency	:5300 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
109.540	QP	53.10	-19.35	33.75	43.50	-9.75
242.430	QP	60.20	-17.08	43.12	46.00	-2.88
291.900	Peak	54.67	-15.14	39.53	46.00	-6.47
332.640	Peak	49.02	-13.66	35.35	46.00	-10.65
722.580	Peak	41.49	-4.78	36.71	46.00	-9.29
800.180	Peak	43.30	-3.34	39.95	46.00	-6.05

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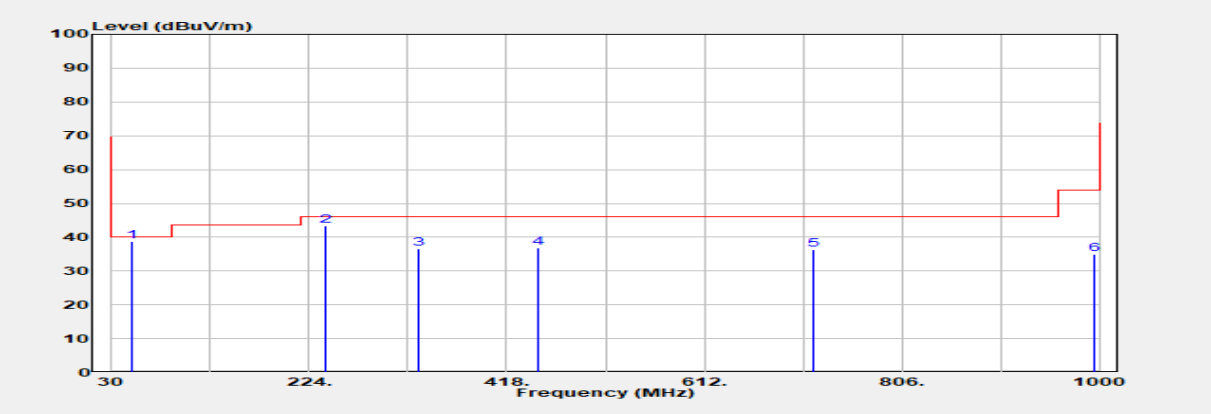
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-19
Test Frequency	:5580 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
50.370	QP	54.00	-15.16	38.84	40.00	-1.16
239.520	QP	60.60	-17.25	43.35	46.00	-2.65
331.670	Peak	50.14	-13.64	36.50	46.00	-9.50
448.070	Peak	47.21	-10.38	36.83	46.00	-9.17
719.670	Peak	41.12	-4.82	36.30	46.00	-9.70
995.150	Peak	35.82	-0.95	34.87	54.00	-19.13

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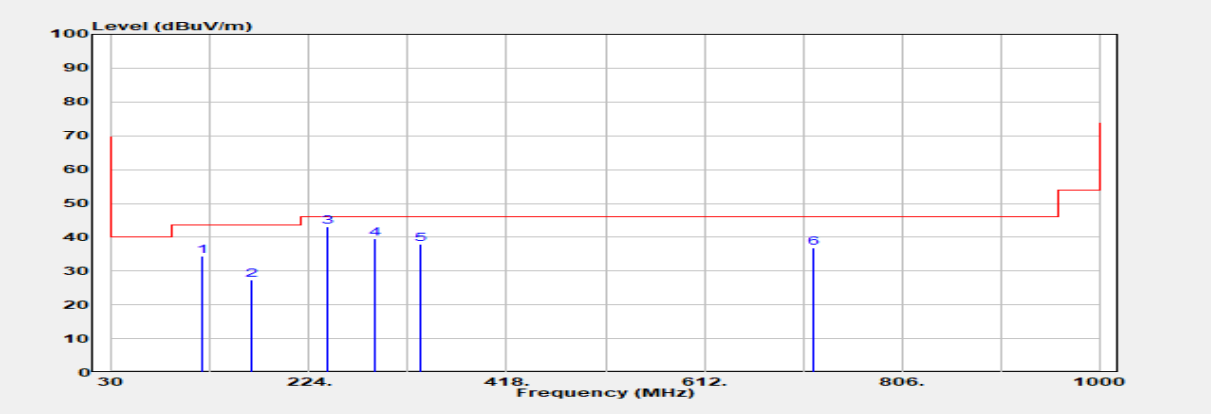
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-19
Test Frequency	:5580 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
119.240	QP	52.50	-17.98	34.52	43.50	-8.98
167.740	QP	43.61	-16.15	27.46	43.50	-16.04
242.430	QP	60.10	-17.08	43.02	46.00	-2.98
288.020	Peak	54.72	-15.14	39.58	46.00	-6.42
333.610	Peak	51.70	-13.69	38.02	46.00	-7.98
719.670	Peak	41.79	-4.82	36.97	46.00	-9.03

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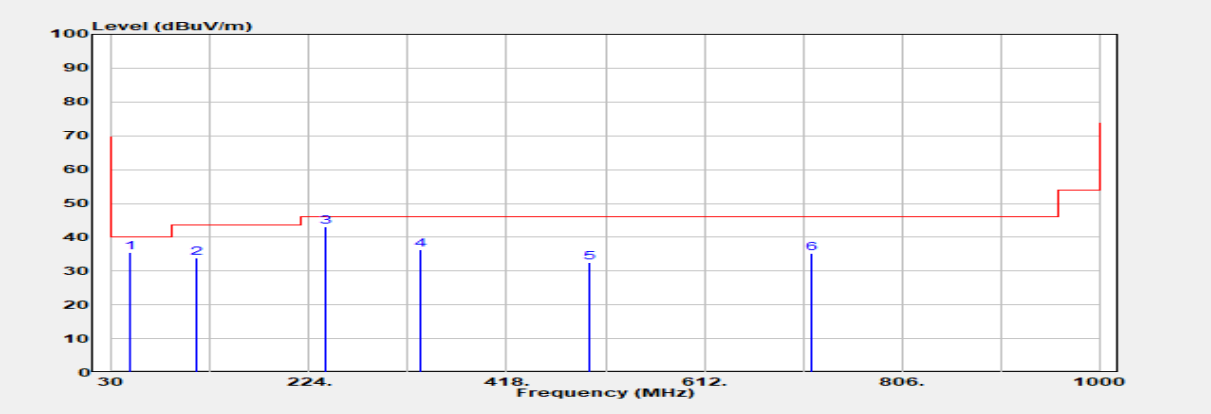
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-19
Test Frequency	:5785 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
48.430	QP	50.80	-15.26	35.54	40.00	-4.46
113.420	QP	52.80	-18.87	33.93	43.50	-9.57
239.520	QP	60.40	-17.25	43.15	46.00	-2.85
332.640	Peak	49.91	-13.66	36.25	46.00	-9.75
499.480	Peak	42.24	-9.62	32.62	46.00	-13.38
717.730	Peak	40.20	-4.94	35.26	46.00	-10.74

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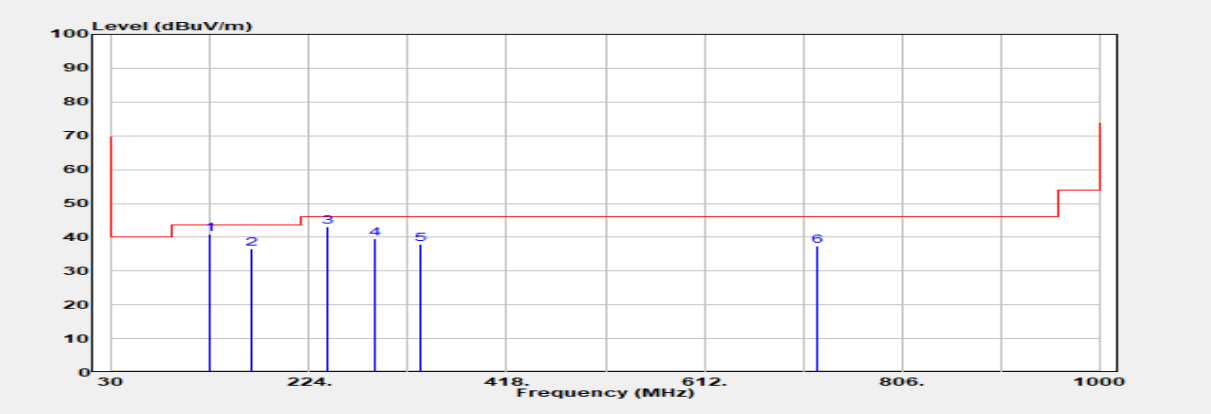
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-19
Test Frequency	:5785 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
127.000	Peak	58.44	-17.54	40.90	43.50	-2.60
167.740	QP	52.80	-16.15	36.65	43.50	-6.85
242.430	QP	60.20	-17.08	43.12	46.00	-2.88
288.990	Peak	54.76	-15.13	39.63	46.00	-6.37
332.640	Peak	51.65	-13.66	37.98	46.00	-8.02
722.580	Peak	42.09	-4.78	37.31	46.00	-8.69

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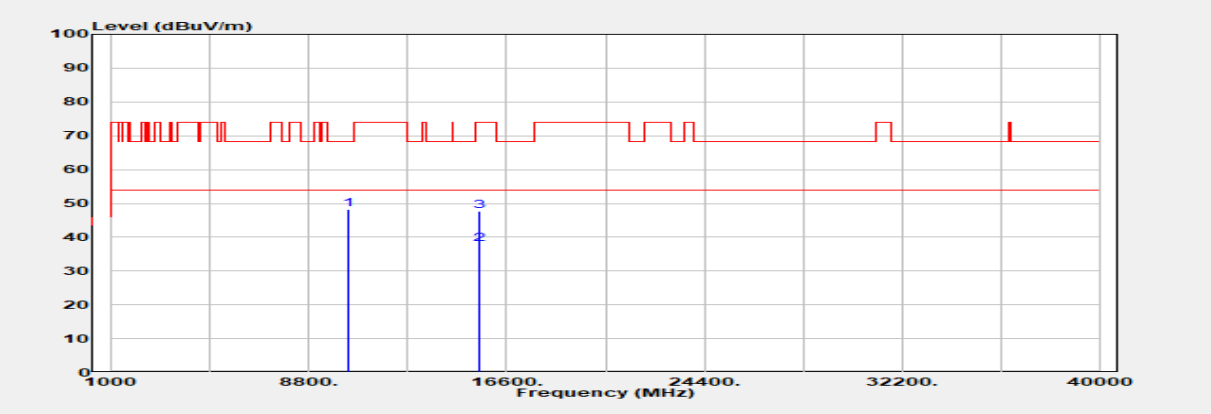
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-19
Test Frequency	:5180 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	39.19	8.94	48.13	68.20	-20.07
15540.000	Average	31.41	6.52	37.93	54.00	-16.07
15540.000	Peak	41.16	6.52	47.68	74.00	-26.32

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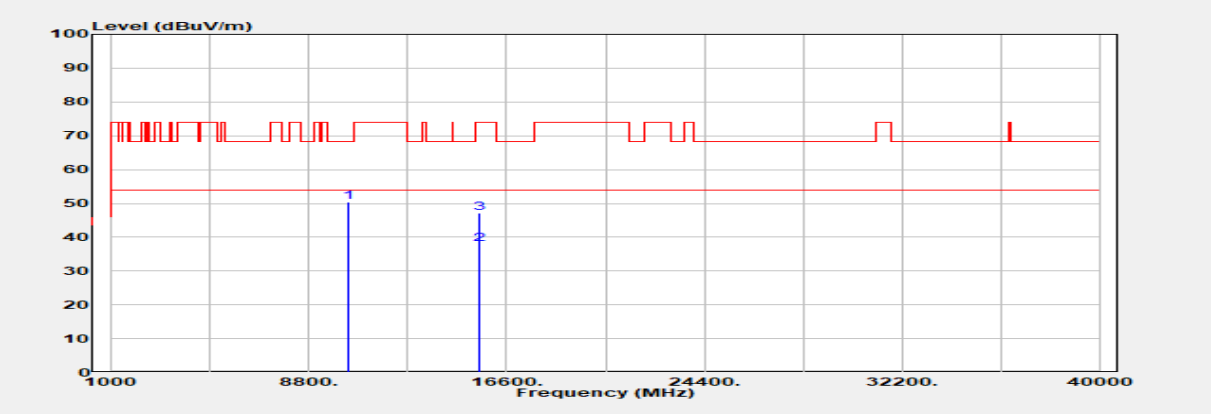
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-19
Test Frequency	:5180 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	41.48	8.94	50.42	68.20	-17.78
15540.000	Average	31.49	6.52	38.01	54.00	-15.99
15540.000	Peak	40.67	6.52	47.19	74.00	-26.81

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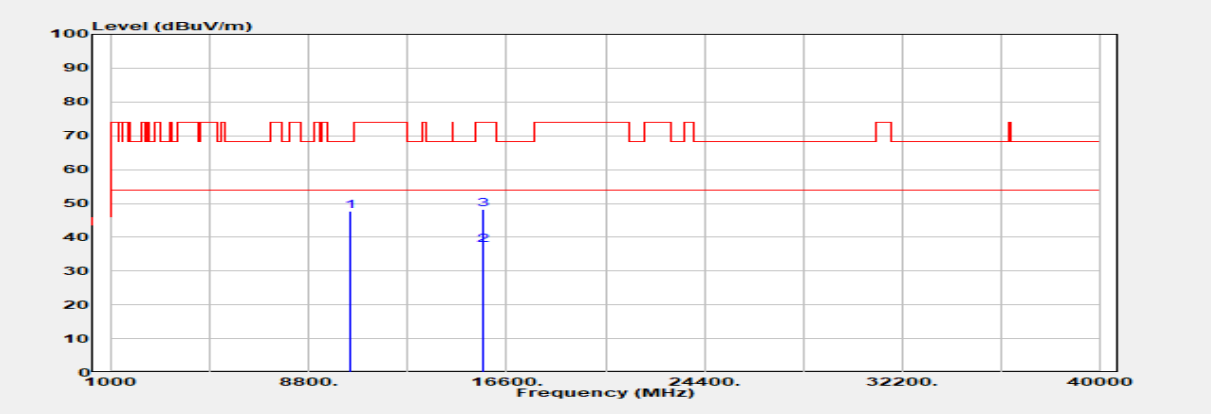
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5220 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.000	Peak	38.35	9.37	47.72	68.20	-20.48
15660.000	Average	31.70	6.04	37.74	54.00	-16.26
15660.000	Peak	42.08	6.04	48.11	74.00	-25.89

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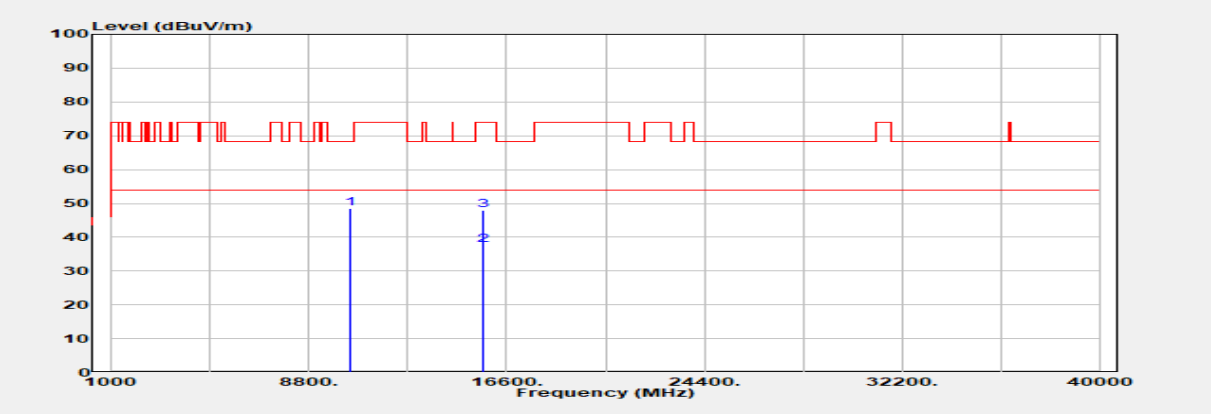
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5220 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.000	Peak	39.21	9.37	48.58	68.20	-19.62
15660.000	Average	31.57	6.04	37.61	54.00	-16.39
15660.000	Peak	42.06	6.04	48.10	74.00	-25.90

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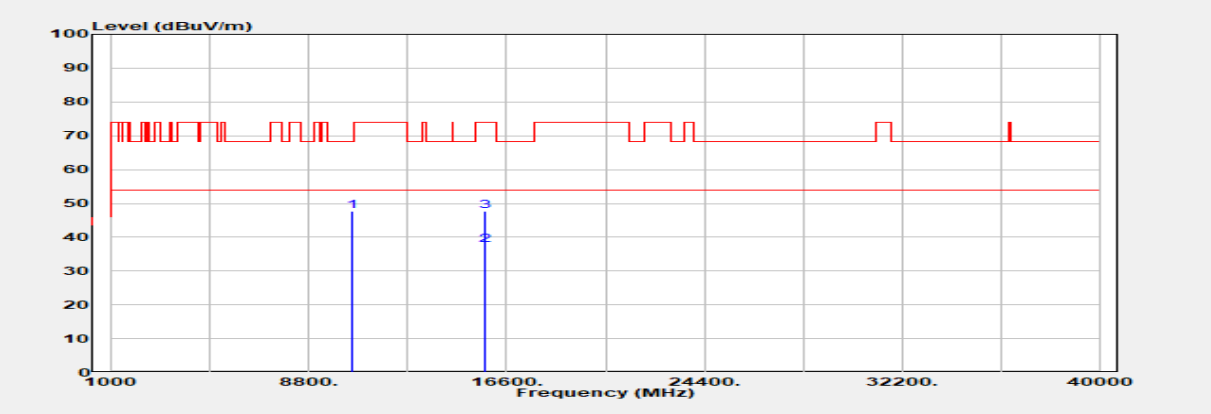
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5240 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	38.82	9.01	47.83	68.20	-20.37
15720.000	Average	31.56	6.03	37.59	54.00	-16.41
15720.000	Peak	41.77	6.03	47.80	74.00	-26.20

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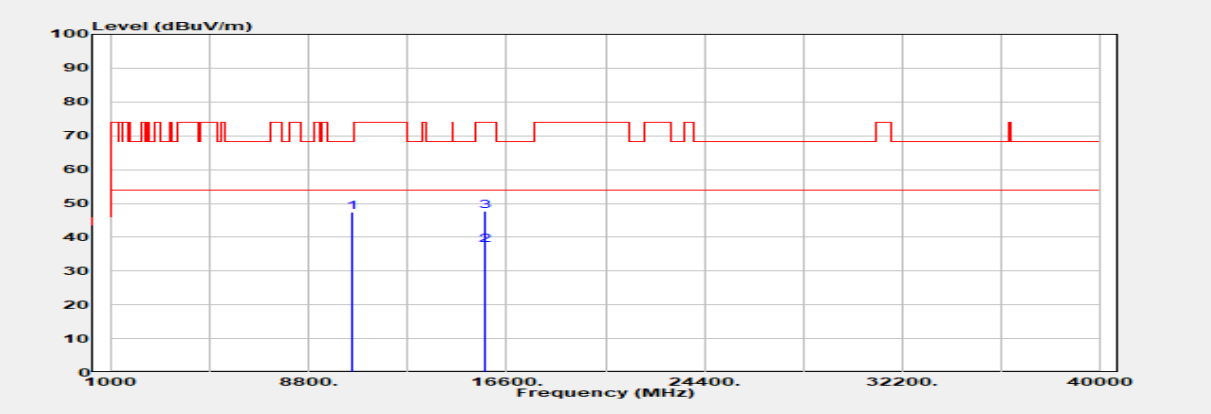
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5240 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	38.35	9.01	47.36	68.20	-20.84
15720.000	Average	31.51	6.03	37.55	54.00	-16.45
15720.000	Peak	41.78	6.03	47.82	74.00	-26.18

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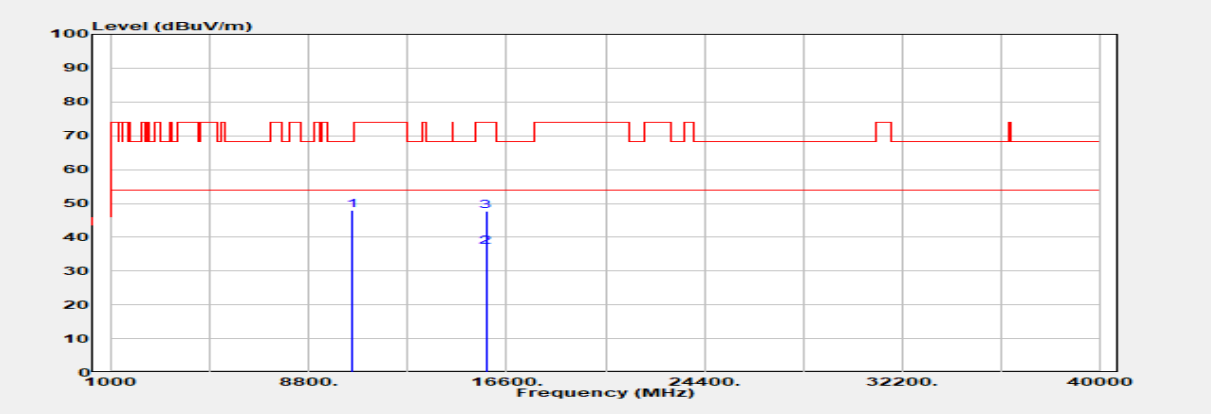
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5260 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	39.15	8.82	47.97	68.20	-20.23
15780.000	Average	31.61	5.63	37.24	54.00	-16.76
15780.000	Peak	42.03	5.63	47.66	74.00	-26.34

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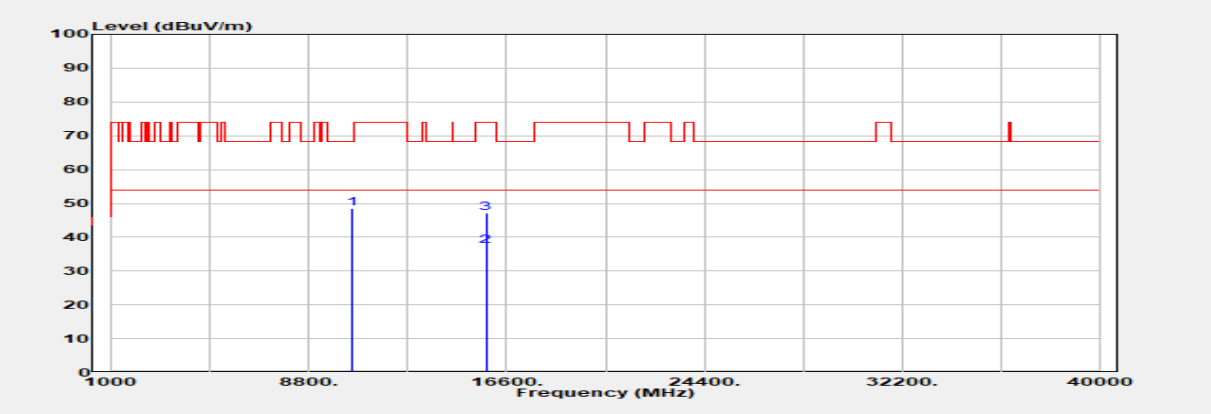
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5260 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	39.70	8.82	48.52	68.20	-19.68
15780.000	Average	31.77	5.63	37.40	54.00	-16.60
15780.000	Peak	41.54	5.63	47.17	74.00	-26.83

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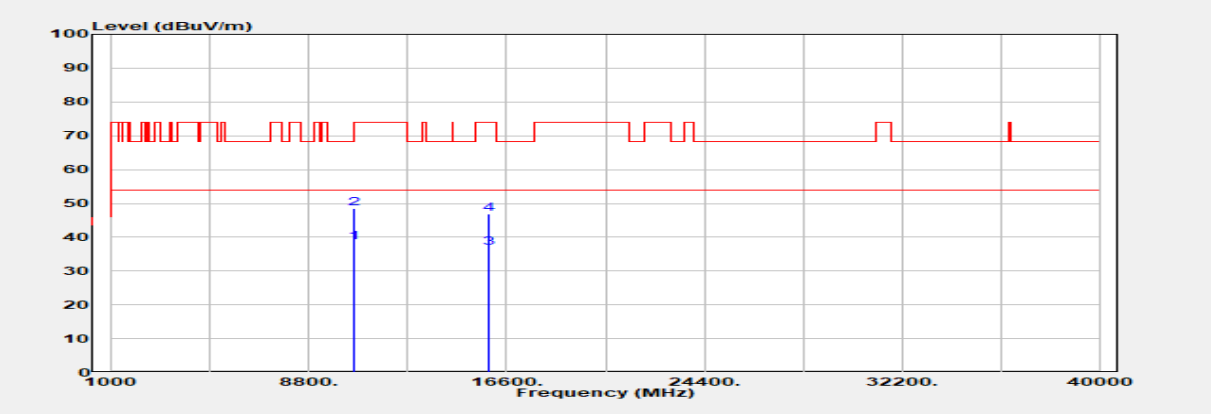
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5300 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	29.84	8.56	38.40	54.00	-15.60
10600.000	Peak	40.06	8.56	48.62	74.00	-25.38
15900.000	Average	31.25	5.73	36.98	54.00	-17.02
15900.000	Peak	41.14	5.73	46.87	74.00	-27.13

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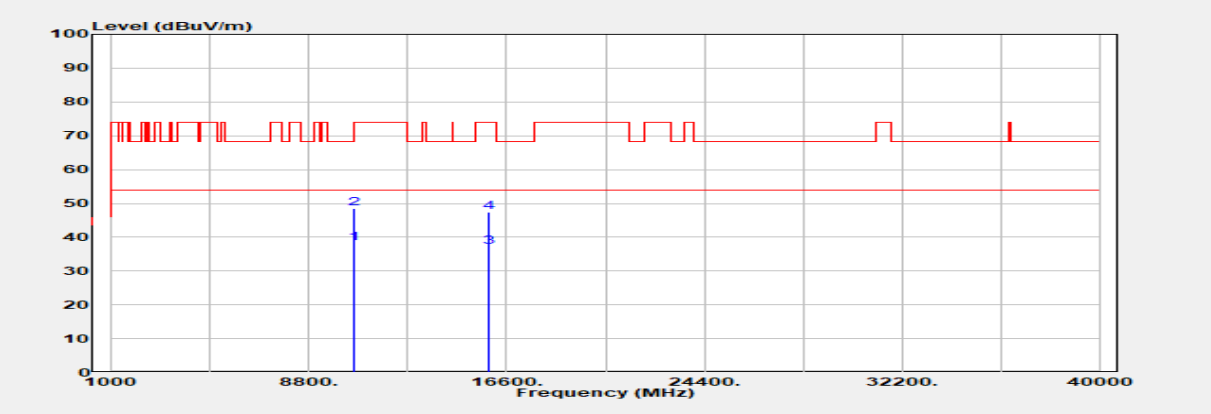
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5300 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	29.72	8.56	38.28	54.00	-15.72
10600.000	Peak	39.97	8.56	48.53	74.00	-25.47
15900.000	Average	31.38	5.73	37.11	54.00	-16.89
15900.000	Peak	41.64	5.73	47.37	74.00	-26.63

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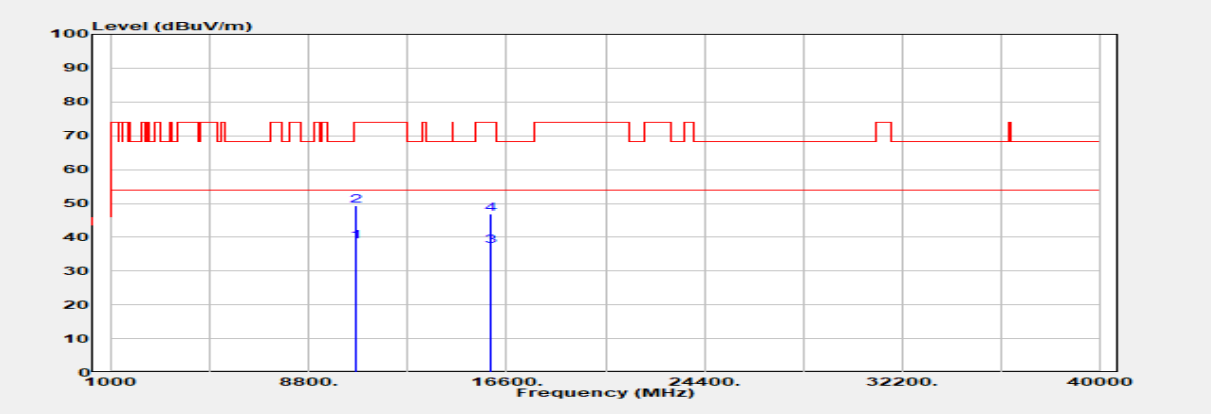
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5320 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	29.62	9.02	38.64	54.00	-15.36
10640.000	Peak	40.39	9.02	49.41	74.00	-24.59
15960.000	Average	31.24	6.06	37.30	54.00	-16.70
15960.000	Peak	40.94	6.06	47.00	74.00	-27.00

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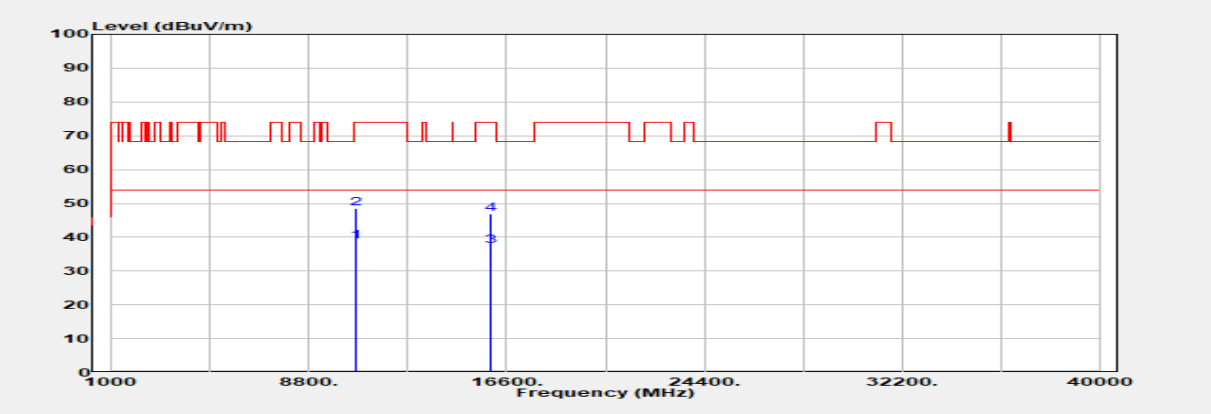
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5320 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	29.65	9.02	38.68	54.00	-15.32
10640.000	Peak	39.38	9.02	48.41	74.00	-25.59
15960.000	Average	31.21	6.06	37.27	54.00	-16.73
15960.000	Peak	40.82	6.06	46.88	74.00	-27.12

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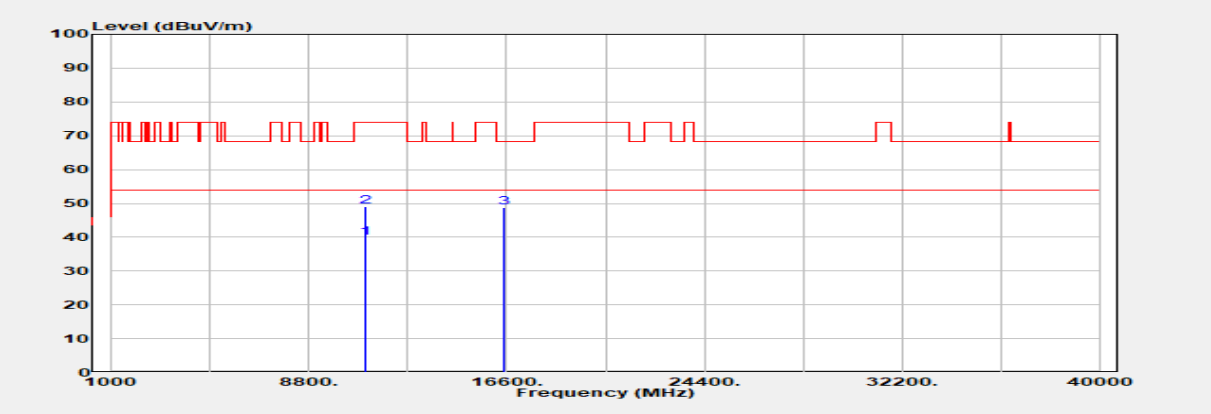
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5500 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	30.49	9.26	39.75	54.00	-14.25
11000.000	Peak	39.80	9.26	49.06	74.00	-24.94
16500.000	Peak	40.82	8.07	48.89	68.20	-19.31

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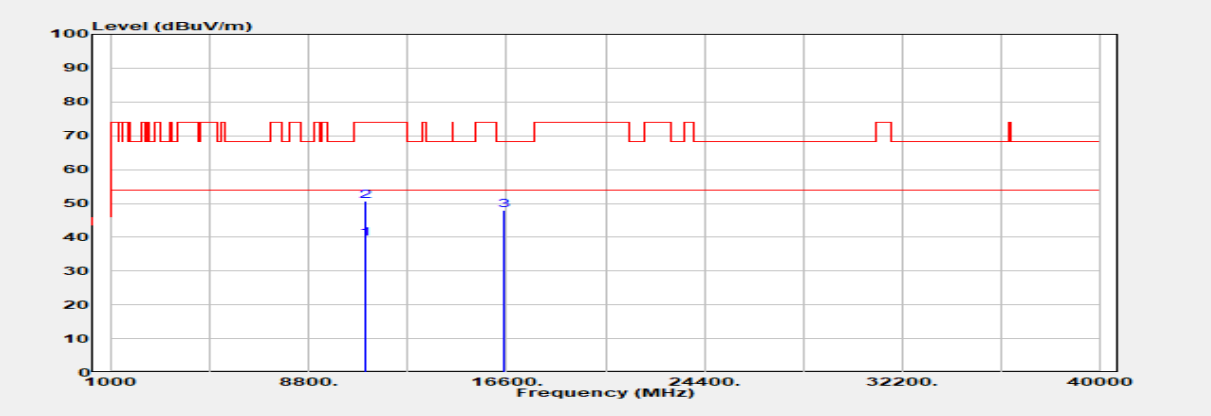
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5500 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	30.41	9.26	39.67	54.00	-14.33
11000.000	Peak	41.31	9.26	50.57	74.00	-23.43
16500.000	Peak	40.02	8.07	48.09	68.20	-20.11

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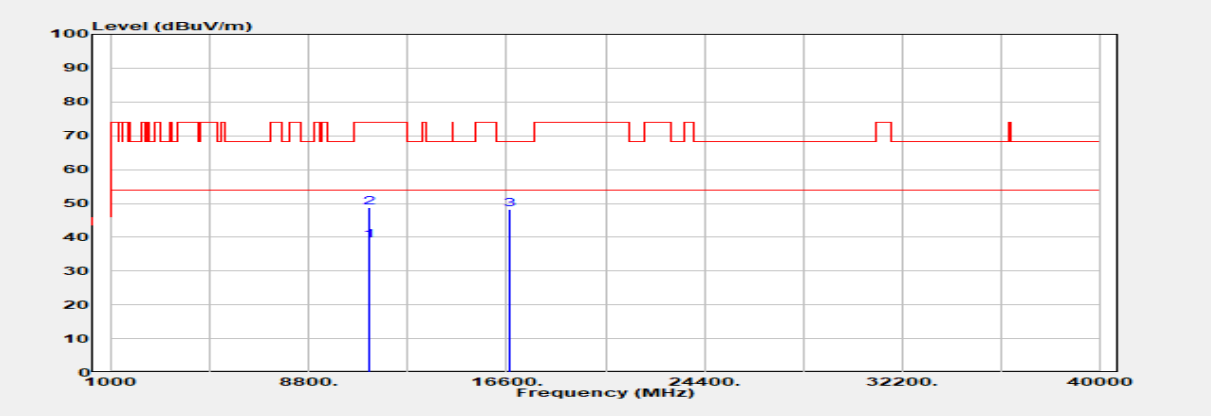
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5580 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.000	Average	30.78	8.36	39.13	54.00	-14.87
11160.000	Peak	40.38	8.36	48.74	74.00	-25.26
16740.000	Peak	40.11	8.08	48.18	68.20	-20.02

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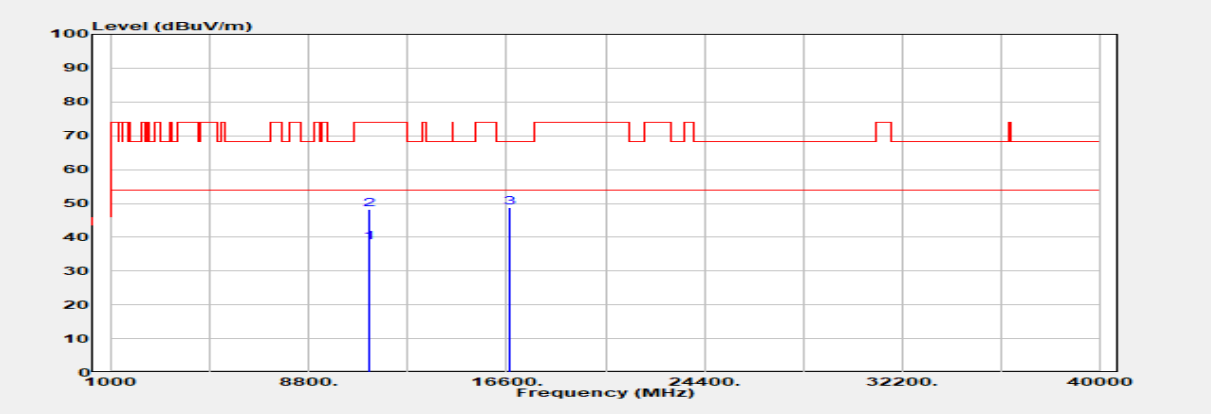
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5580 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.000	Average	30.08	8.36	38.44	54.00	-15.56
11160.000	Peak	39.96	8.36	48.32	74.00	-25.68
16740.000	Peak	40.73	8.08	48.80	68.20	-19.40

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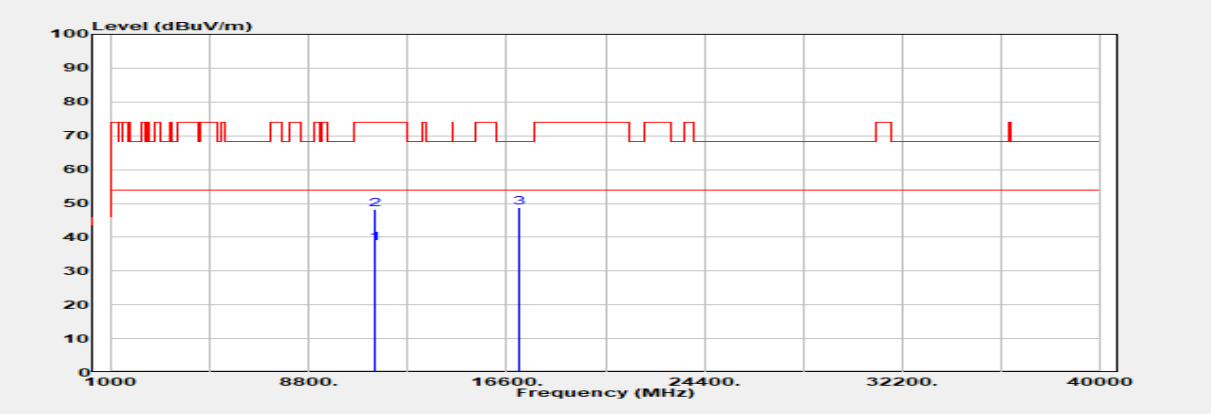
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5700 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.000	Average	29.55	8.70	38.25	54.00	-15.75
11400.000	Peak	39.64	8.70	48.34	74.00	-25.66
17100.000	Peak	40.57	8.20	48.77	68.20	-19.43

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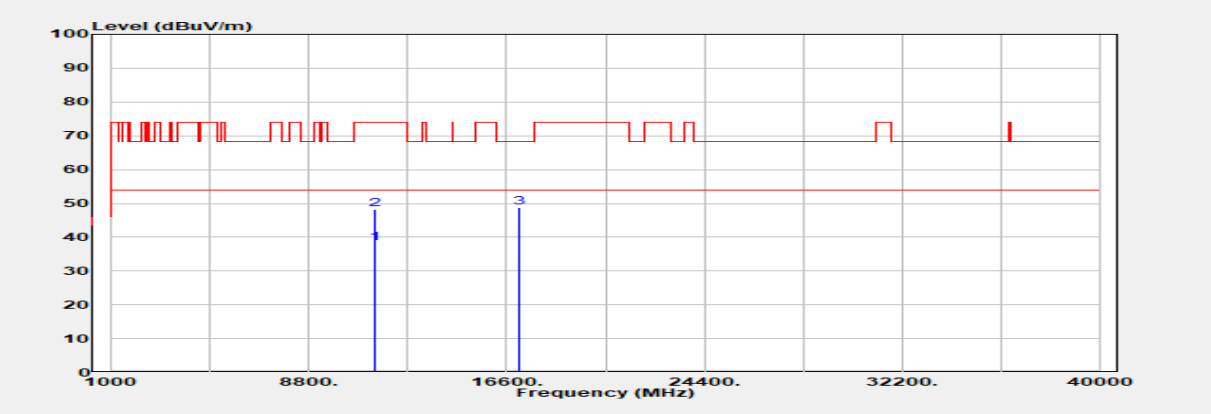
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5700 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.000	Average	29.56	8.70	38.26	54.00	-15.74
11400.000	Peak	39.66	8.70	48.36	74.00	-25.64
17100.000	Peak	40.61	8.20	48.81	68.20	-19.39

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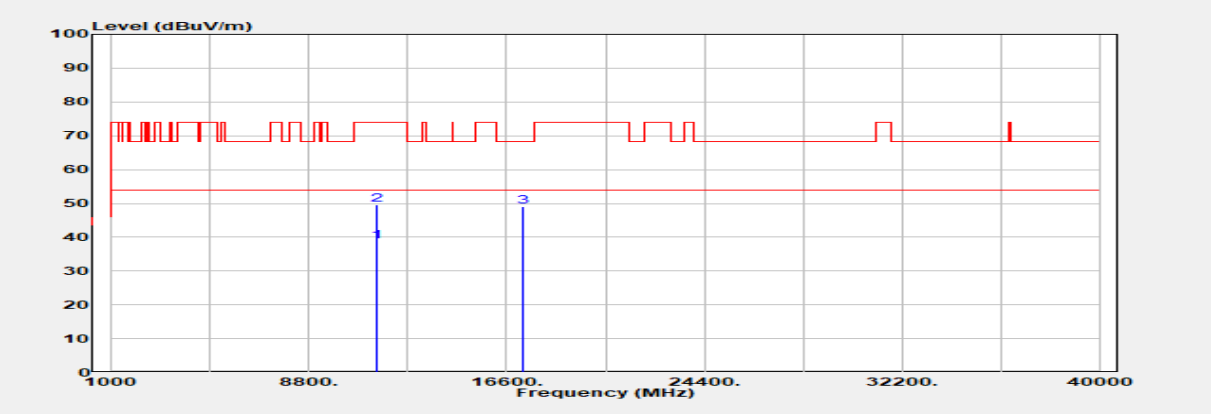
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5745 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.000	Average	30.07	8.80	38.87	54.00	-15.13
11490.000	Peak	40.75	8.80	49.55	74.00	-24.45
17235.000	Peak	40.43	8.65	49.08	68.20	-19.12

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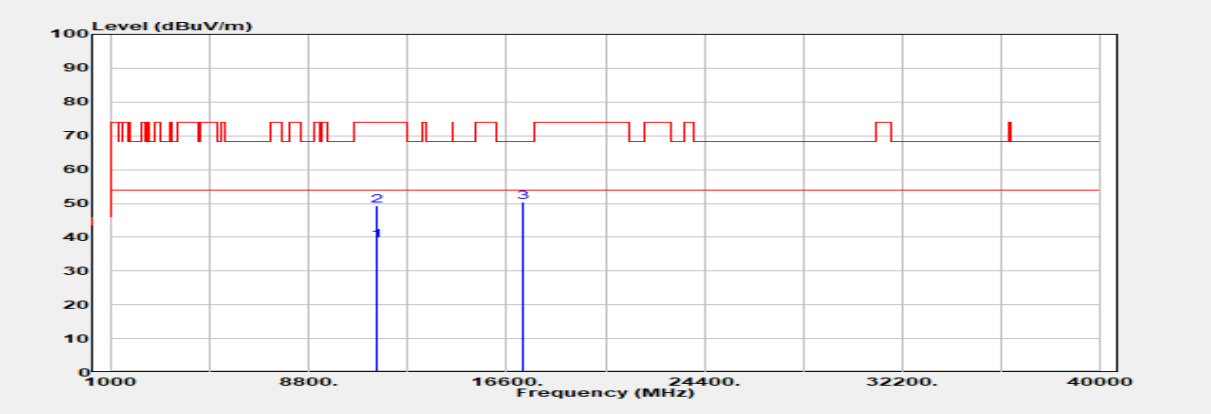
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5745 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.000	Average	30.15	8.80	38.95	54.00	-15.05
11490.000	Peak	40.49	8.80	49.29	74.00	-24.71
17235.000	Peak	41.72	8.65	50.37	68.20	-17.83

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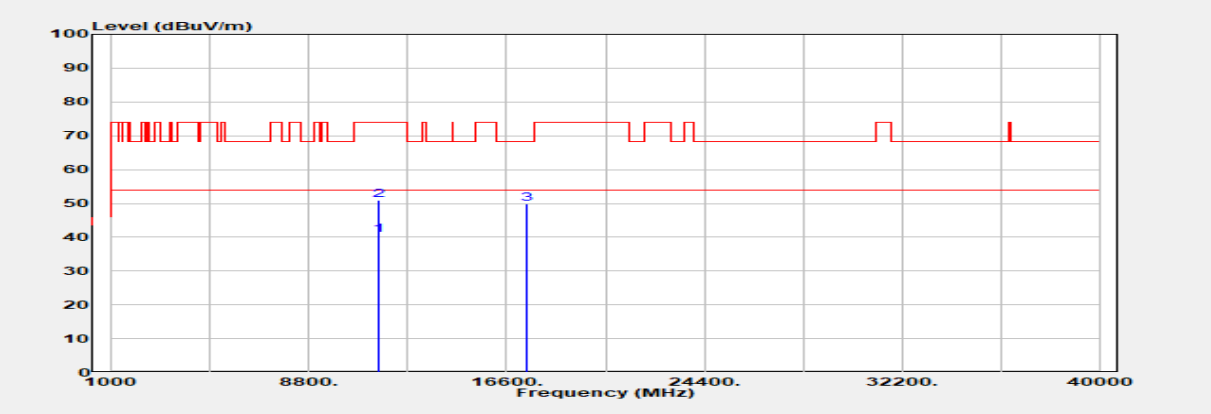
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5785 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.000	Average	32.73	7.90	40.62	54.00	-13.38
11570.000	Peak	43.09	7.90	50.99	74.00	-23.01
17355.000	Peak	40.13	9.70	49.83	68.20	-18.37

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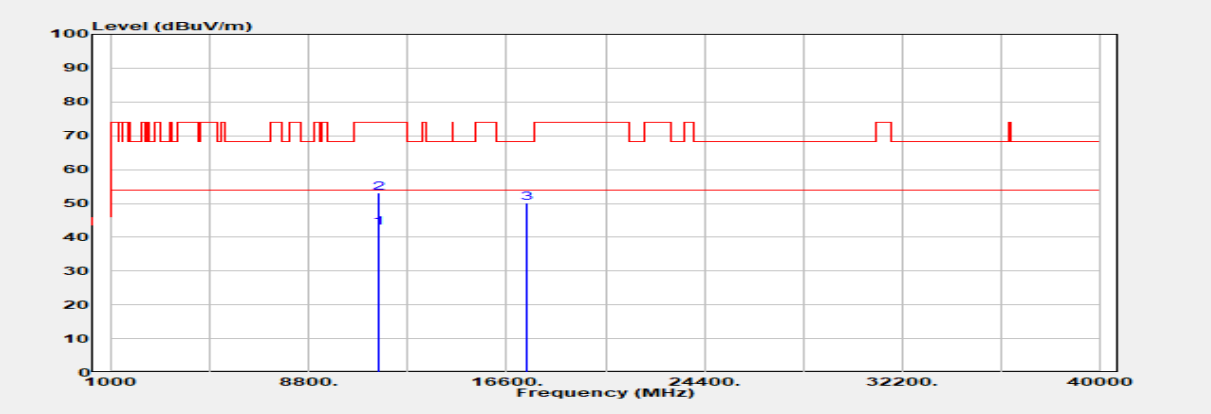
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5785 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.000	Average	34.84	7.90	42.74	54.00	-11.26
11570.000	Peak	45.29	7.90	53.18	74.00	-20.82
17355.000	Peak	40.51	9.70	50.21	68.20	-17.99

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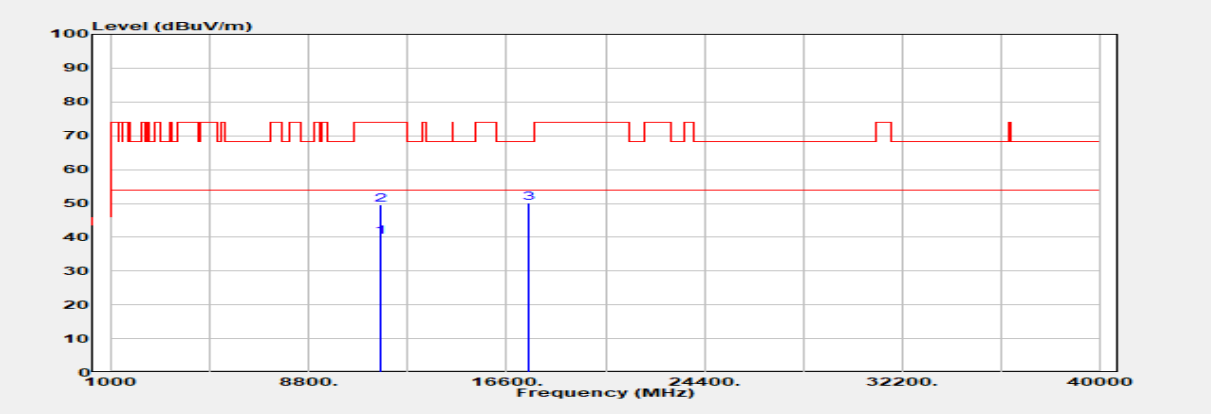
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5825 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	32.43	7.71	40.13	54.00	-13.87
11650.000	Peak	41.86	7.71	49.57	74.00	-24.43
17475.000	Peak	40.25	9.98	50.23	68.20	-17.97

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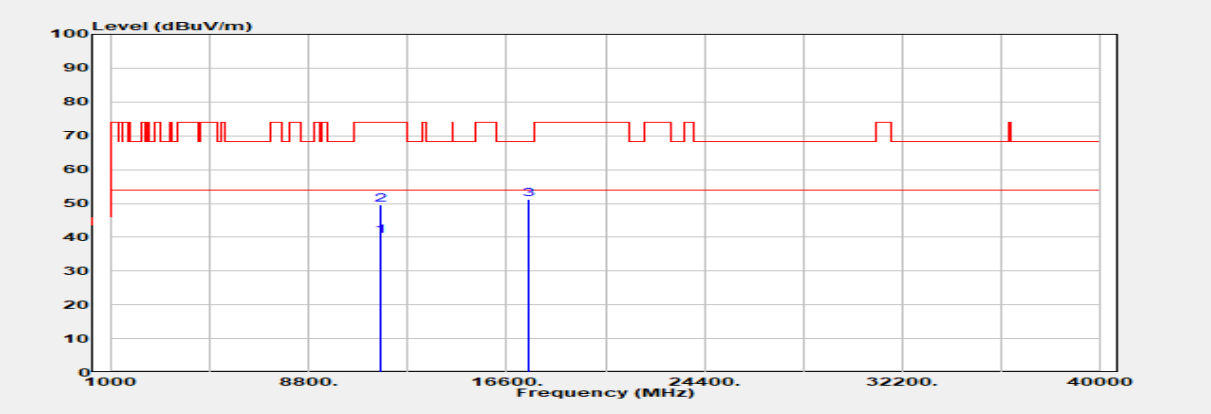
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-20
Test Frequency	:5825 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	32.55	7.71	40.25	54.00	-13.75
11650.000	Peak	42.01	7.71	49.71	74.00	-24.29
17475.000	Peak	41.14	9.98	51.12	68.20	-17.08

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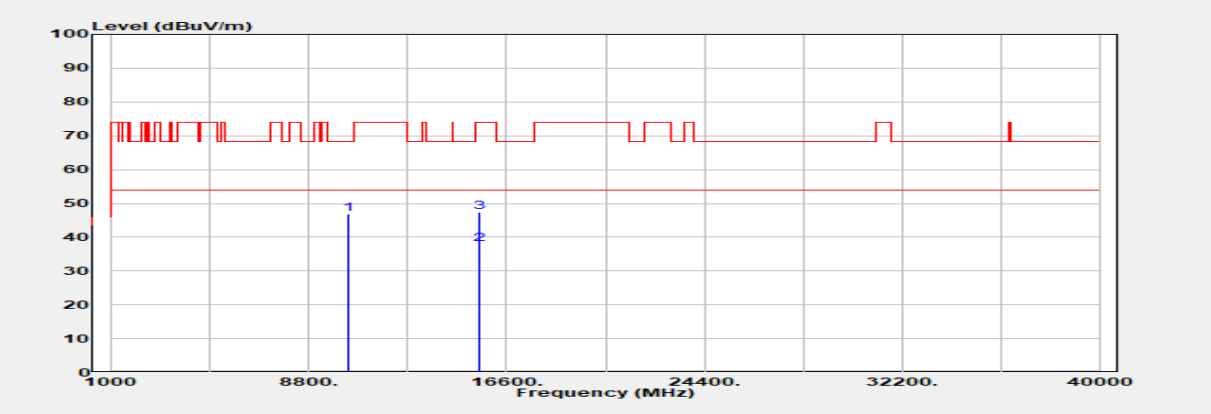
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5180 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.000	Peak	37.93	8.94	46.88	68.20	-21.32
15540.000	Average	31.39	6.52	37.91	54.00	-16.09
15540.000	Peak	40.81	6.52	47.33	74.00	-26.67

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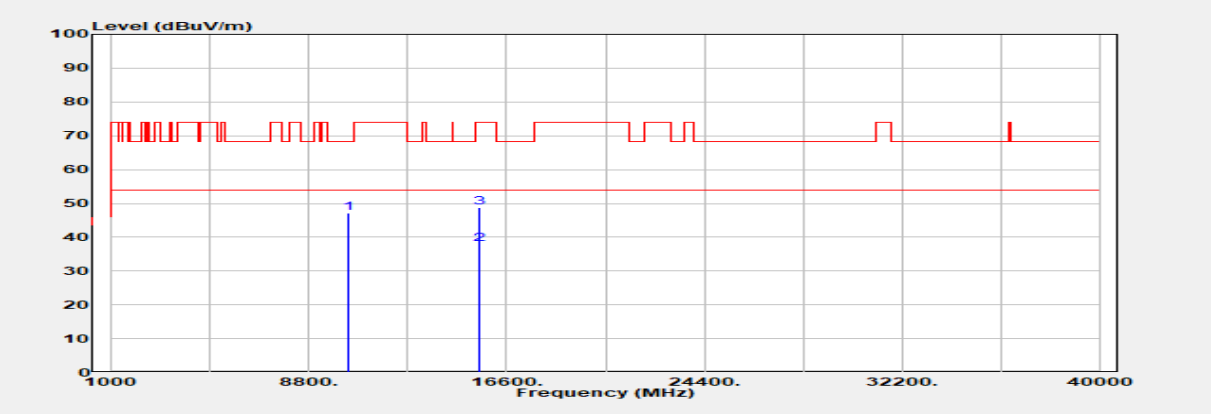
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5180 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	38.29	8.94	47.24	68.20	-20.96
15540.000	Average	31.42	6.52	37.94	54.00	-16.06
15540.000	Peak	42.15	6.52	48.67	74.00	-25.33

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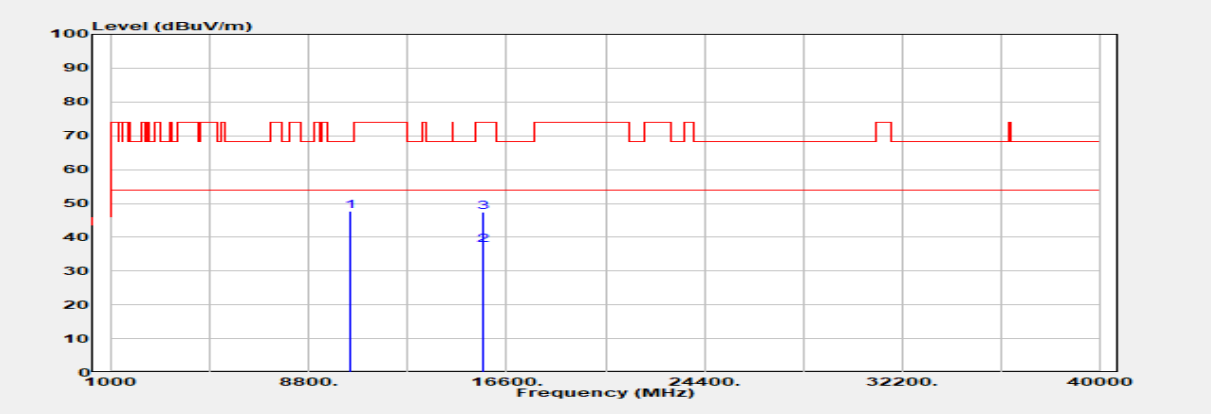
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5220 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.000	Peak	38.35	9.37	47.73	68.20	-20.47
15660.000	Average	31.51	6.04	37.55	54.00	-16.45
15660.000	Peak	41.50	6.04	47.54	74.00	-26.46

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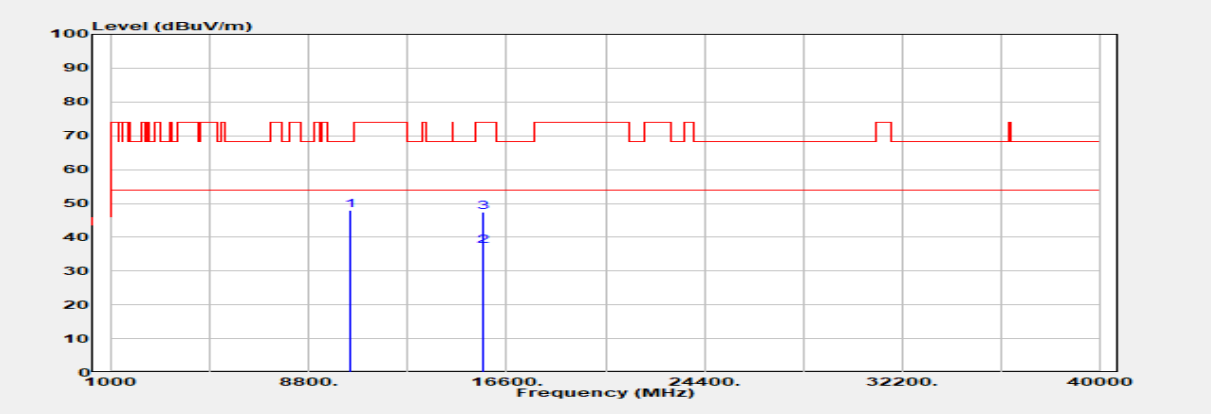
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5220 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.000	Peak	38.55	9.37	47.92	68.20	-20.28
15660.000	Average	31.47	6.04	37.51	54.00	-16.49
15660.000	Peak	41.45	6.04	47.49	74.00	-26.51

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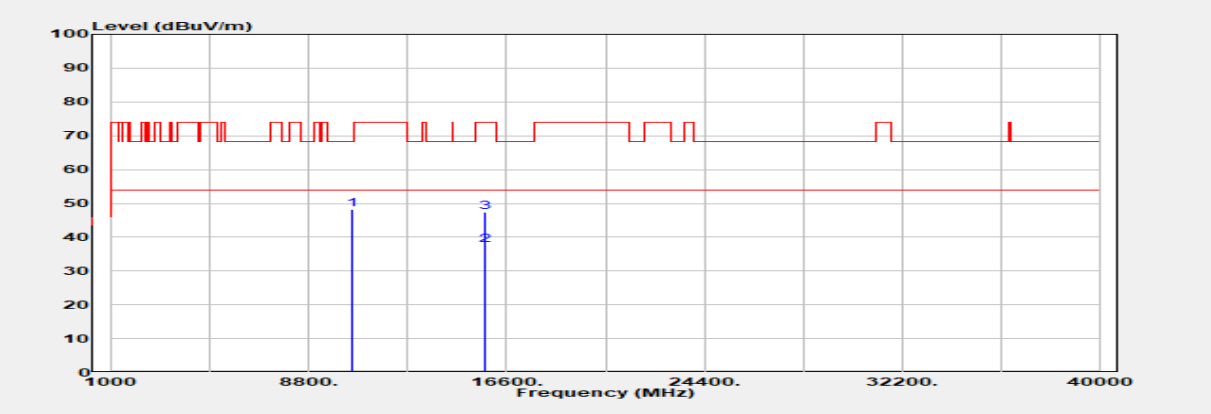
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5240 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	39.20	9.01	48.22	68.20	-19.98
15720.000	Average	31.53	6.03	37.56	54.00	-16.44
15720.000	Peak	41.44	6.03	47.47	74.00	-26.53

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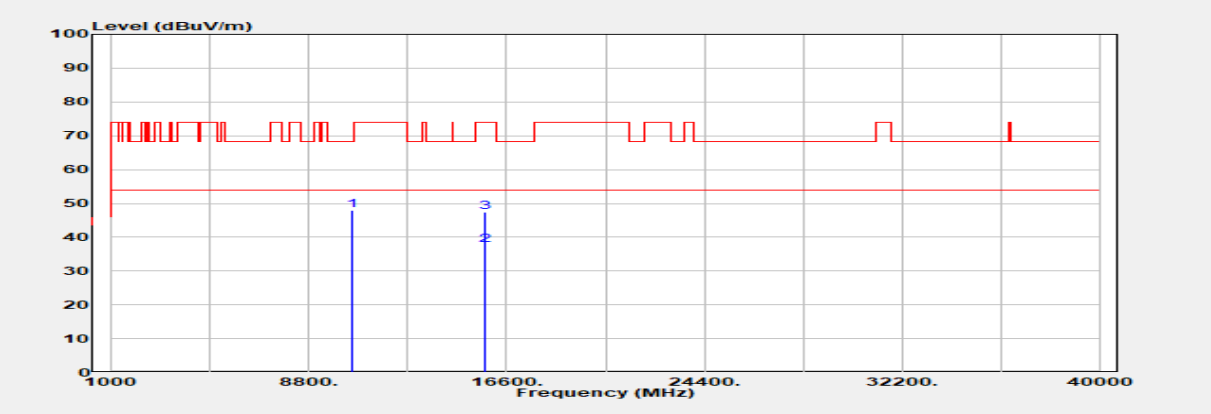
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5240 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	38.92	9.01	47.94	68.20	-20.26
15720.000	Average	31.51	6.03	37.54	54.00	-16.46
15720.000	Peak	41.44	6.03	47.48	74.00	-26.52

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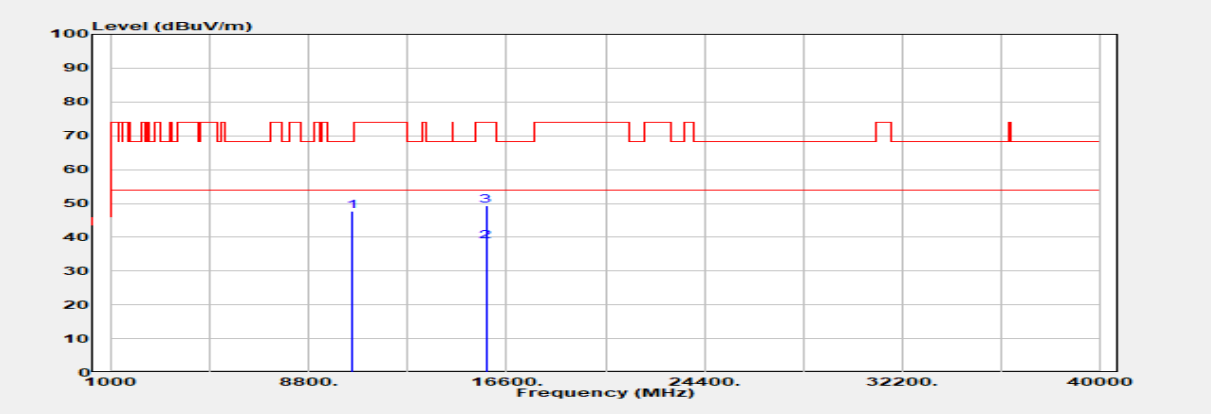
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5260 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	39.00	8.82	47.82	68.20	-20.38
15780.000	Average	33.08	5.63	38.71	54.00	-15.29
15780.000	Peak	43.68	5.63	49.31	74.00	-24.69

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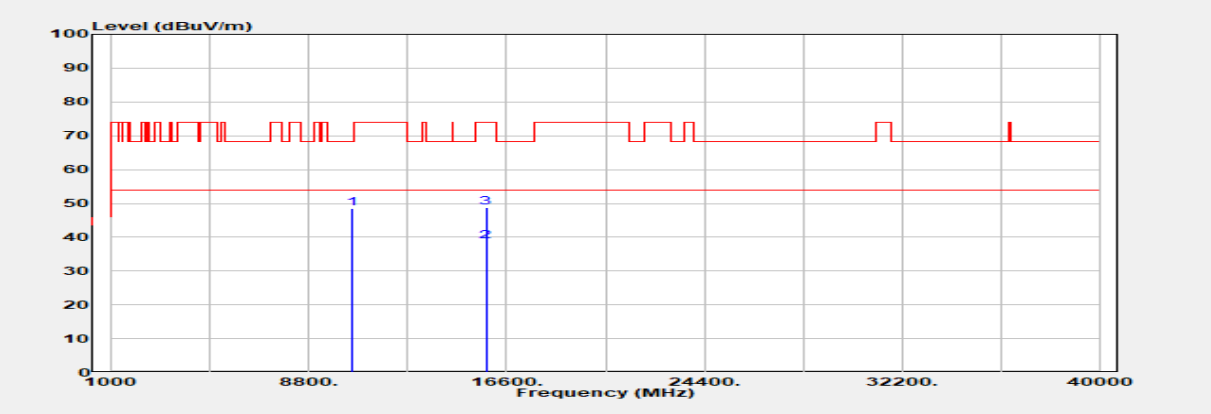
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5260 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	39.82	8.82	48.64	68.20	-19.56
15780.000	Average	33.11	5.63	38.74	54.00	-15.26
15780.000	Peak	43.09	5.63	48.72	74.00	-25.28

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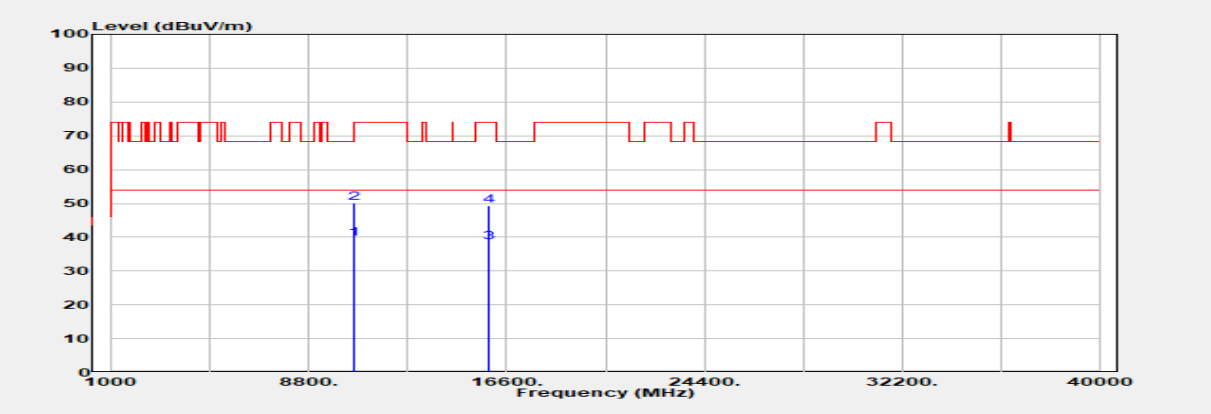
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5300 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	31.09	8.56	39.65	54.00	-14.35
10600.000	Peak	41.67	8.56	50.23	74.00	-23.77
15900.000	Average	32.74	5.73	38.47	54.00	-15.53
15900.000	Peak	43.64	5.73	49.37	74.00	-24.63

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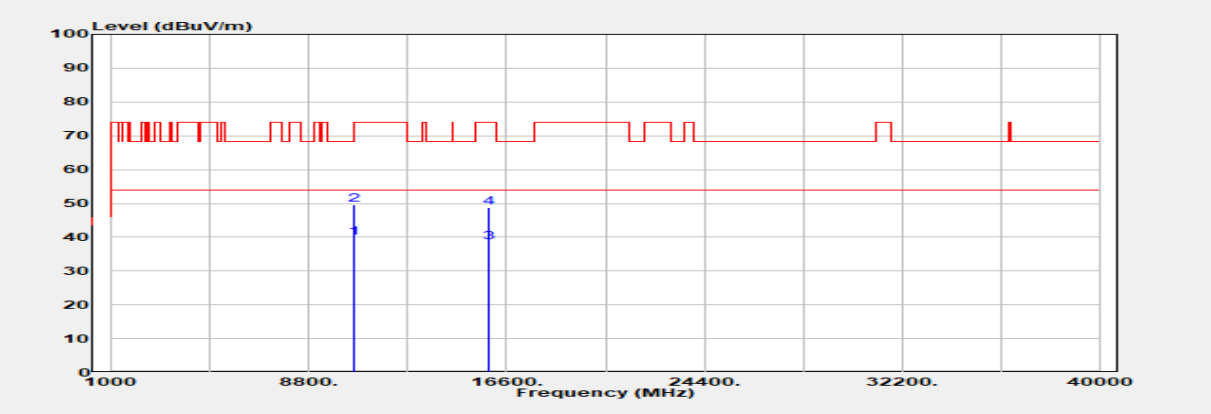
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5300 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	31.19	8.56	39.75	54.00	-14.25
10600.000	Peak	41.12	8.56	49.68	74.00	-24.32
15900.000	Average	32.71	5.73	38.44	54.00	-15.56
15900.000	Peak	43.12	5.73	48.85	74.00	-25.15

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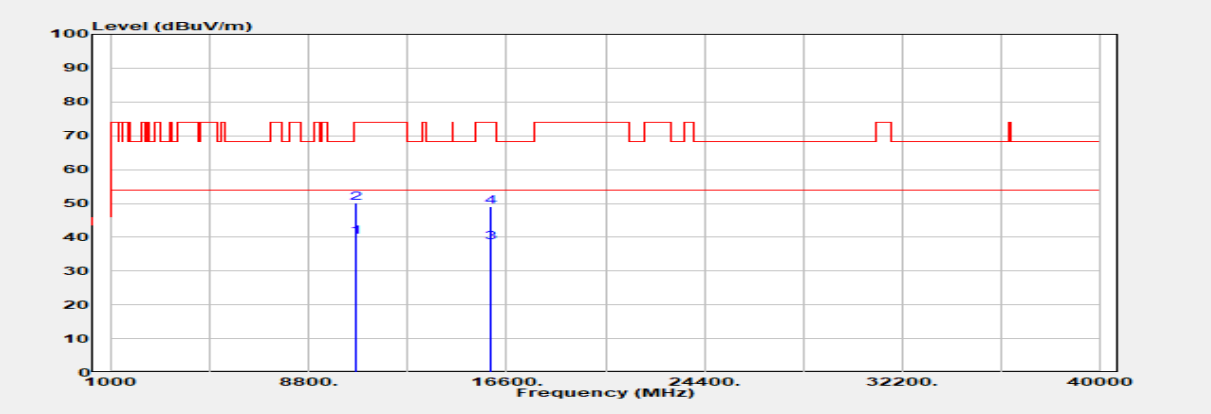
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5320 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	30.95	9.02	39.97	54.00	-14.03
10640.000	Peak	41.09	9.02	50.11	74.00	-23.89
15960.000	Average	32.50	6.06	38.56	54.00	-15.44
15960.000	Peak	43.11	6.06	49.17	74.00	-24.83

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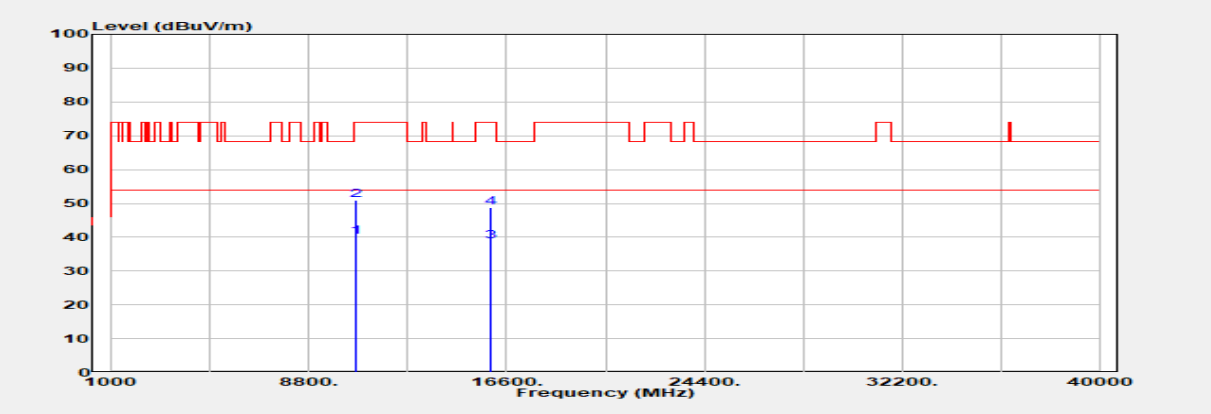
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5320 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	31.01	9.02	40.04	54.00	-13.96
10640.000	Peak	41.89	9.02	50.92	74.00	-23.08
15960.000	Average	32.57	6.06	38.63	54.00	-15.37
15960.000	Peak	42.84	6.06	48.90	74.00	-25.10

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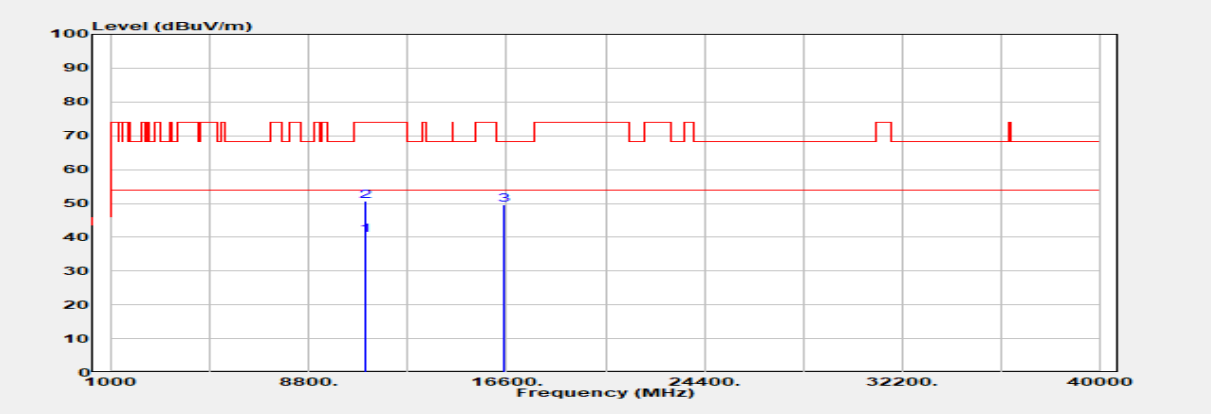
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5500 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	31.49	9.26	40.75	54.00	-13.25
11000.000	Peak	41.32	9.26	50.58	74.00	-23.42
16500.000	Peak	41.44	8.07	49.51	68.20	-18.69

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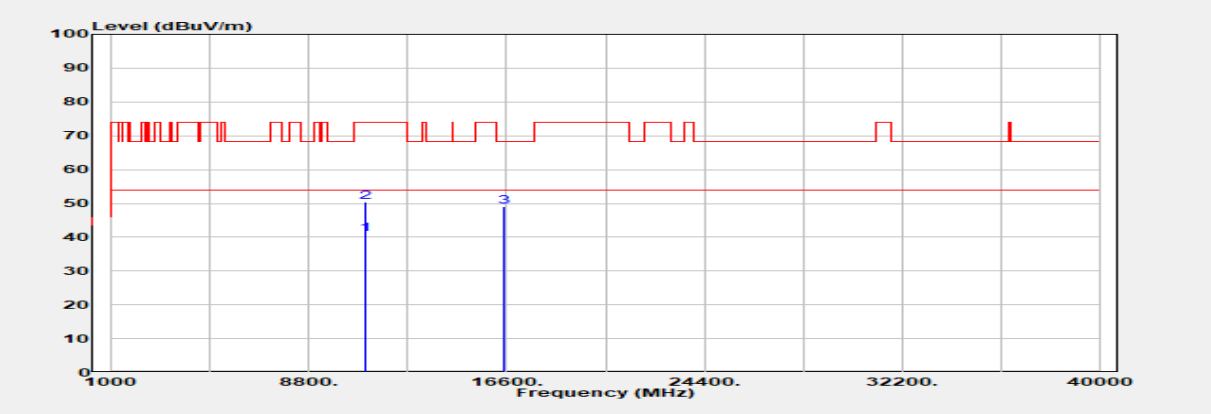
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5500 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	31.53	9.26	40.79	54.00	-13.21
11000.000	Peak	41.18	9.26	50.44	74.00	-23.56
16500.000	Peak	41.04	8.07	49.11	68.20	-19.09

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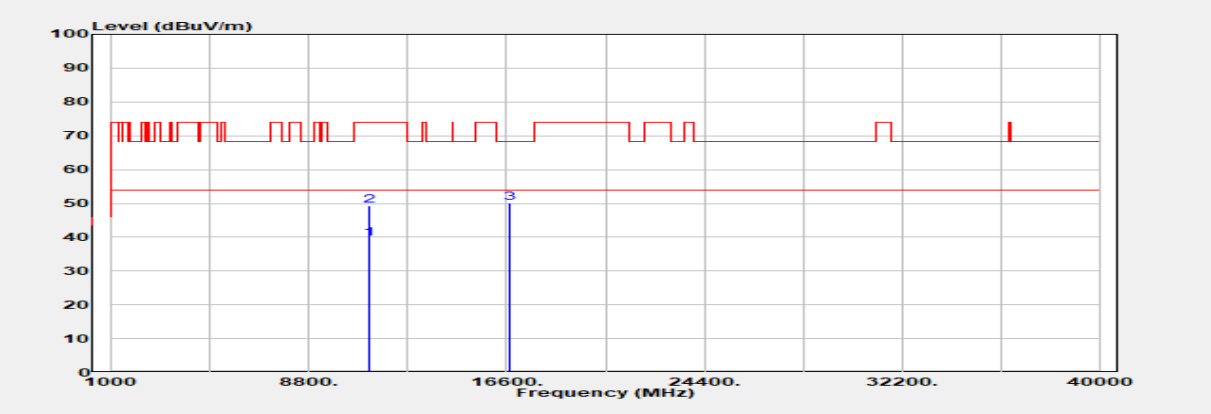
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5580 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.000	Average	31.10	8.36	39.46	54.00	-14.54
11160.000	Peak	40.96	8.36	49.31	74.00	-24.69
16740.000	Peak	41.97	8.08	50.05	68.20	-18.15

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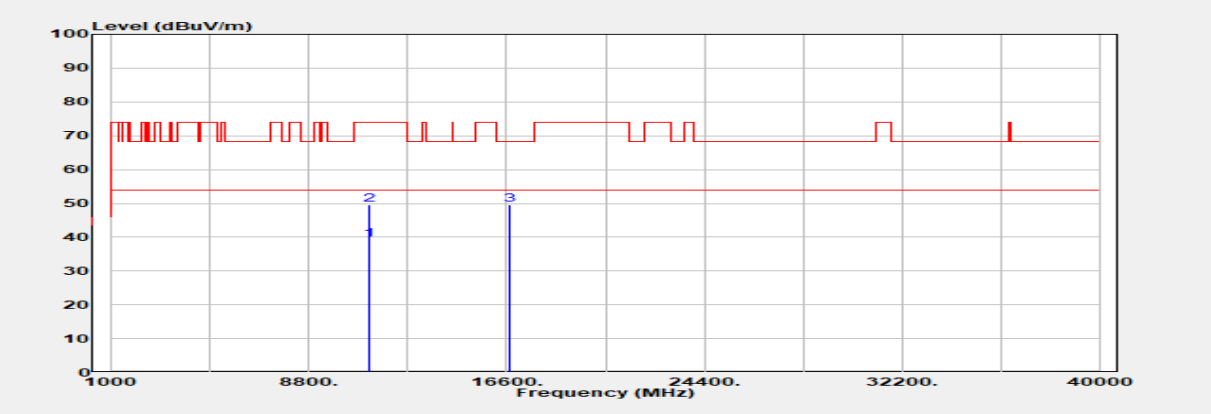
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5580 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.000	Average	31.01	8.36	39.37	54.00	-14.63
11160.000	Peak	41.10	8.36	49.46	74.00	-24.54
16740.000	Peak	41.47	8.08	49.54	68.20	-18.66

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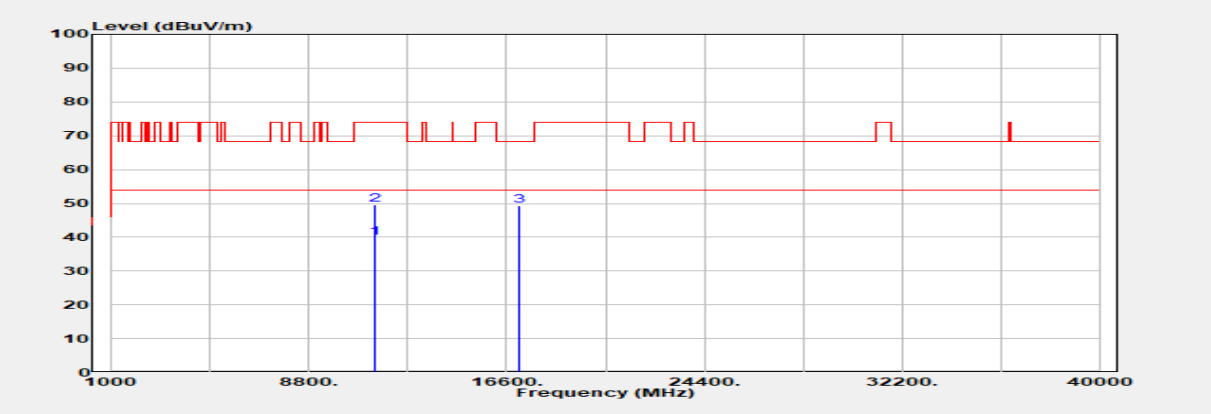
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5700 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.000	Average	31.08	8.70	39.78	54.00	-14.22
11400.000	Peak	40.85	8.70	49.55	74.00	-24.45
17100.000	Peak	41.02	8.20	49.22	68.20	-18.98

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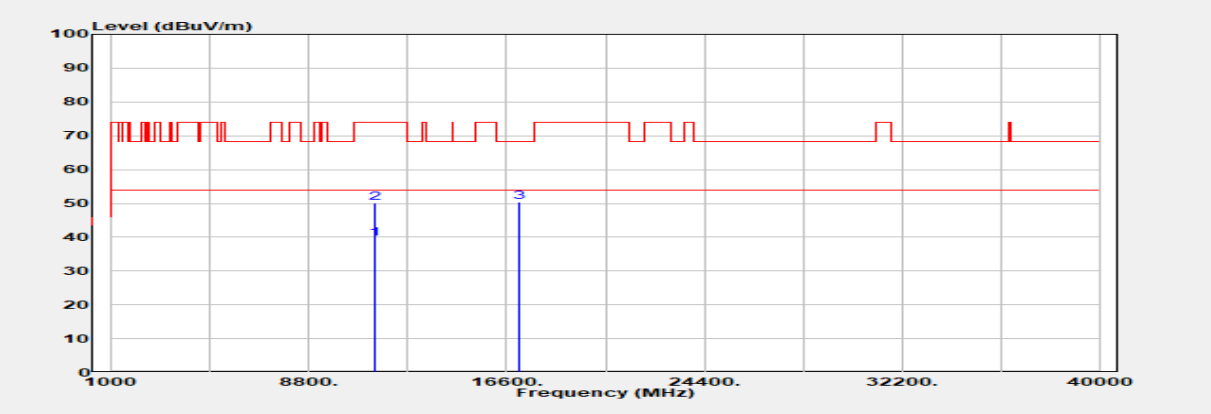
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5700 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.000	Average	30.97	8.70	39.67	54.00	-14.33
11400.000	Peak	41.56	8.70	50.26	74.00	-23.74
17100.000	Peak	42.13	8.20	50.33	68.20	-17.87

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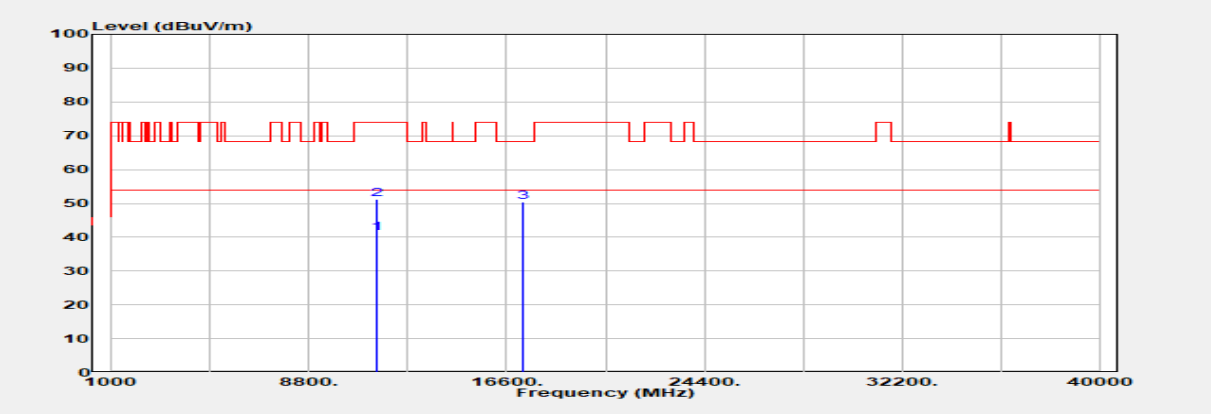
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5745 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.000	Average	32.35	8.80	41.15	54.00	-12.85
11490.000	Peak	42.37	8.80	51.17	74.00	-22.83
17235.000	Peak	41.72	8.65	50.37	68.20	-17.83

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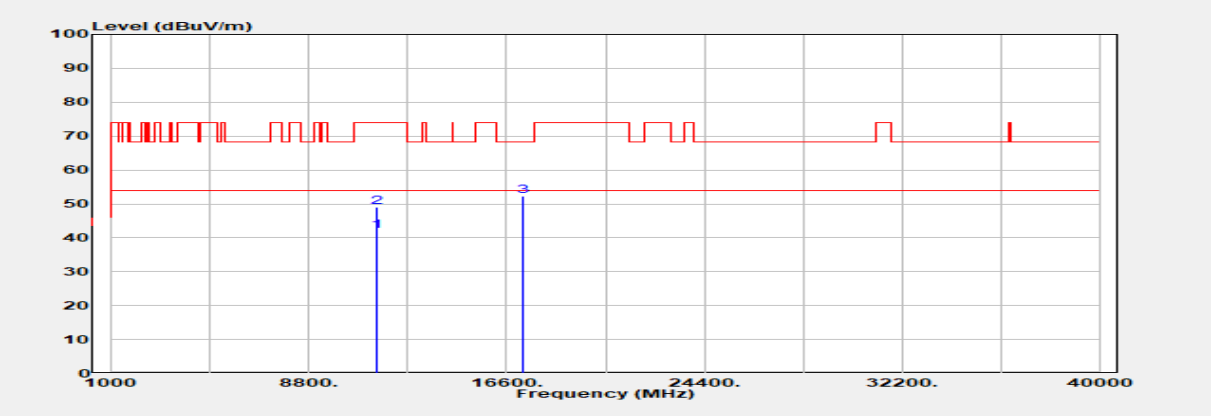
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5745 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.000	Average	33.11	8.80	41.91	54.00	-12.09
11490.000	Peak	40.25	8.80	49.05	74.00	-24.95
17235.000	Peak	43.56	8.65	52.21	68.20	-15.99

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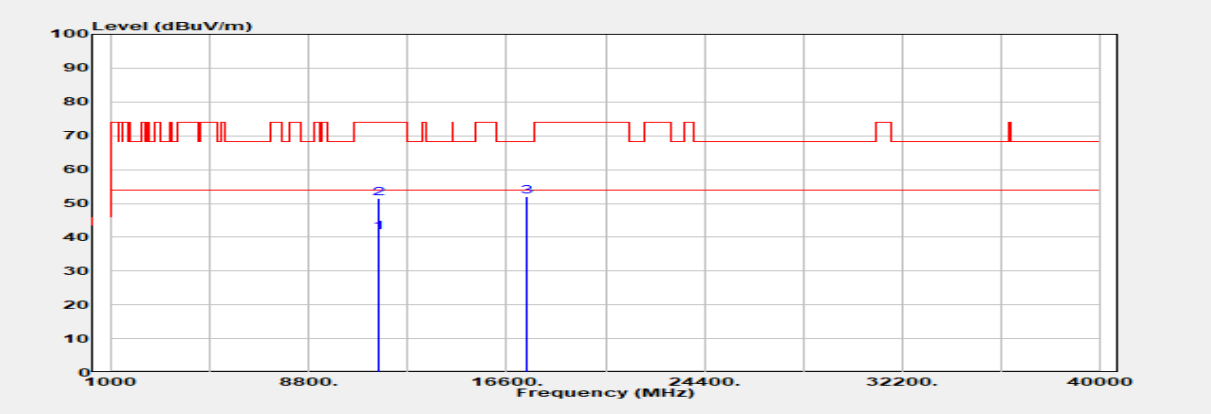
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5785 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.000	Average	33.53	7.90	41.43	54.00	-12.57
11570.000	Peak	43.46	7.90	51.36	74.00	-22.64
17355.000	Peak	42.26	9.70	51.96	68.20	-16.24

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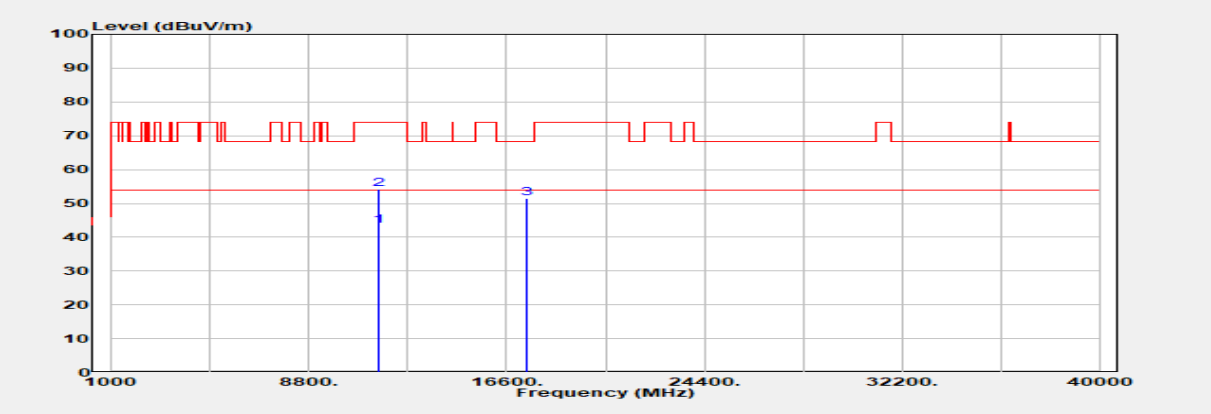
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5785 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.000	Average	35.43	7.90	43.33	54.00	-10.67
11570.000	Peak	46.38	7.90	54.27	74.00	-19.73
17355.000	Peak	41.72	9.70	51.42	68.20	-16.78

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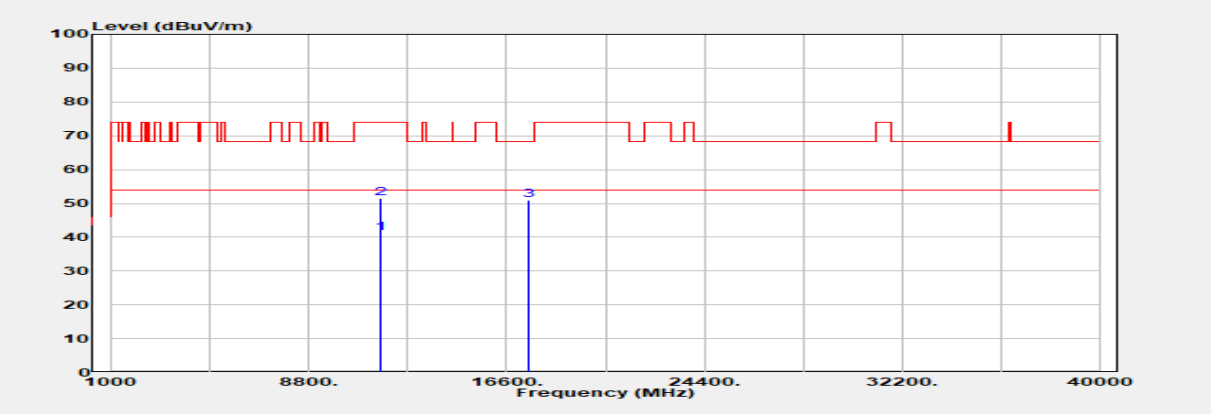
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5825 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	33.59	7.71	41.30	54.00	-12.70
11650.000	Peak	43.92	7.71	51.62	74.00	-22.38
17475.000	Peak	41.06	9.98	51.04	68.20	-17.16

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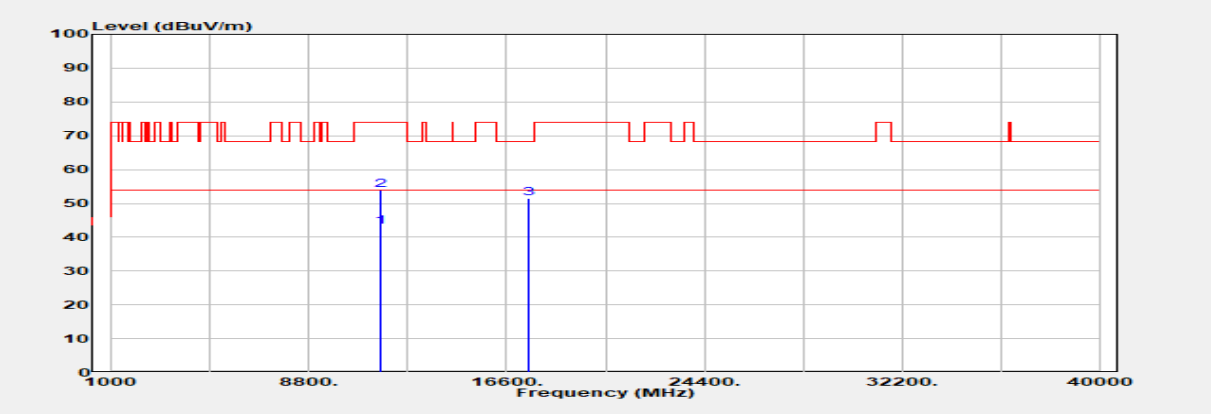
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-20
Test Frequency	:5825 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	35.32	7.71	43.03	54.00	-10.97
11650.000	Peak	46.36	7.71	54.06	74.00	-19.94
17475.000	Peak	41.53	9.98	51.51	68.20	-16.69

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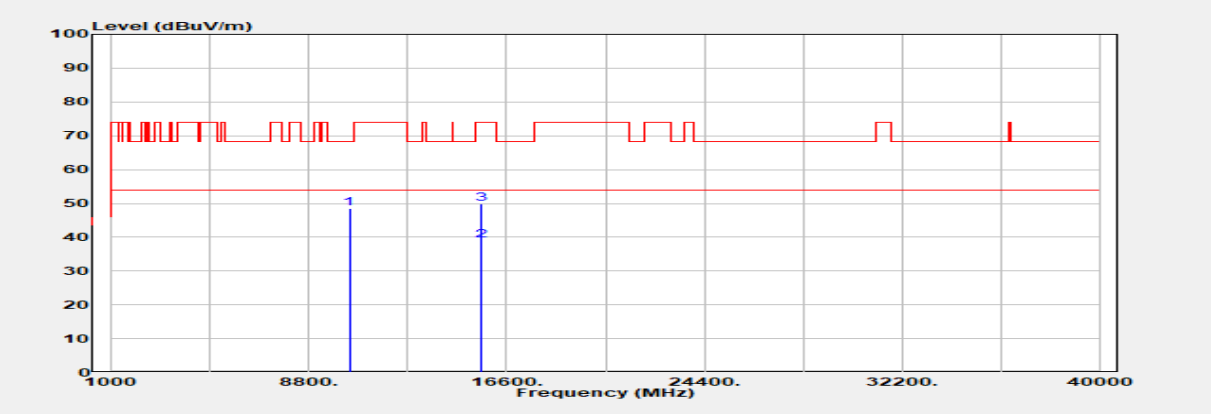
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5190 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10380.000	Peak	39.34	9.23	48.57	68.20	-19.63
15570.000	Average	32.85	6.27	39.12	54.00	-14.88
15570.000	Peak	43.48	6.27	49.75	74.00	-24.25

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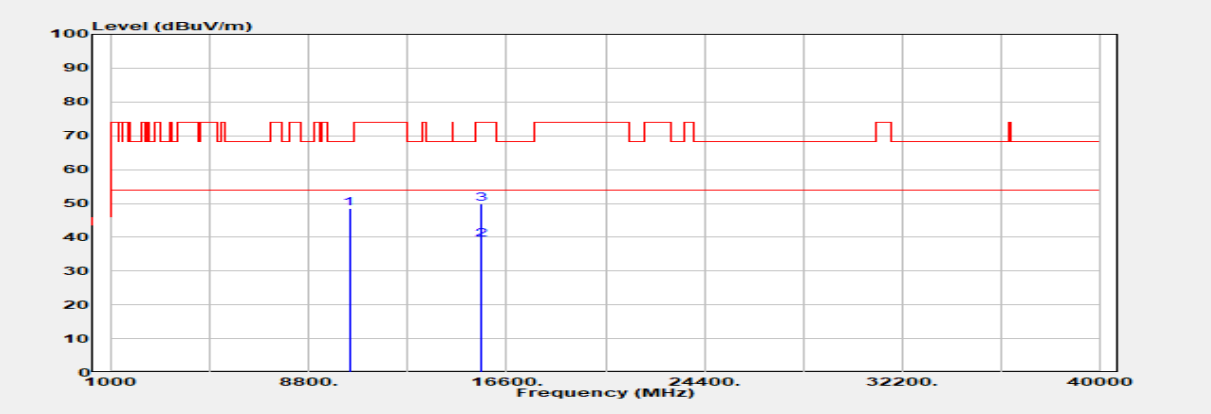
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5190 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10380.000	Peak	39.35	9.23	48.58	68.20	-19.62
15570.000	Average	32.92	6.27	39.19	54.00	-14.81
15570.000	Peak	43.64	6.27	49.92	74.00	-24.08

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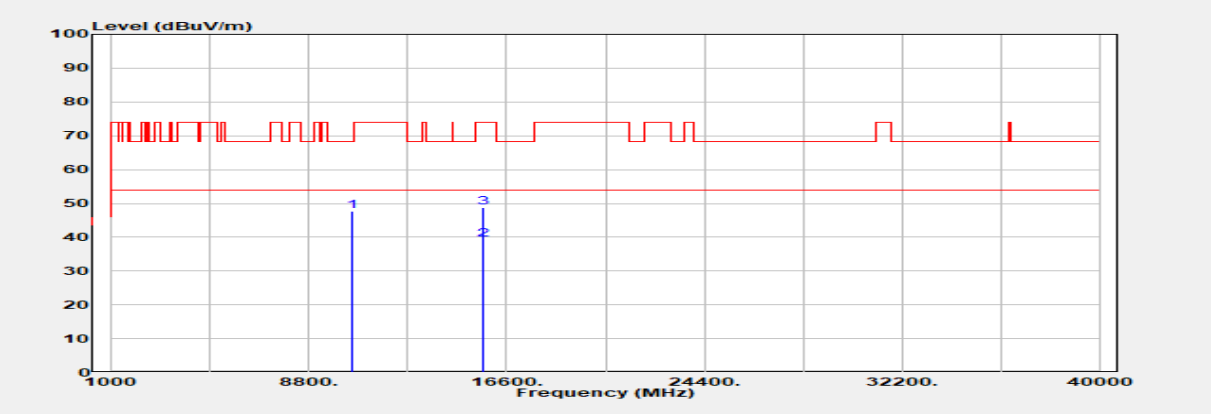
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5230 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10460.000	Peak	38.59	9.23	47.81	68.20	-20.39
15690.000	Average	33.03	6.14	39.16	54.00	-14.84
15690.000	Peak	42.73	6.14	48.86	74.00	-25.14

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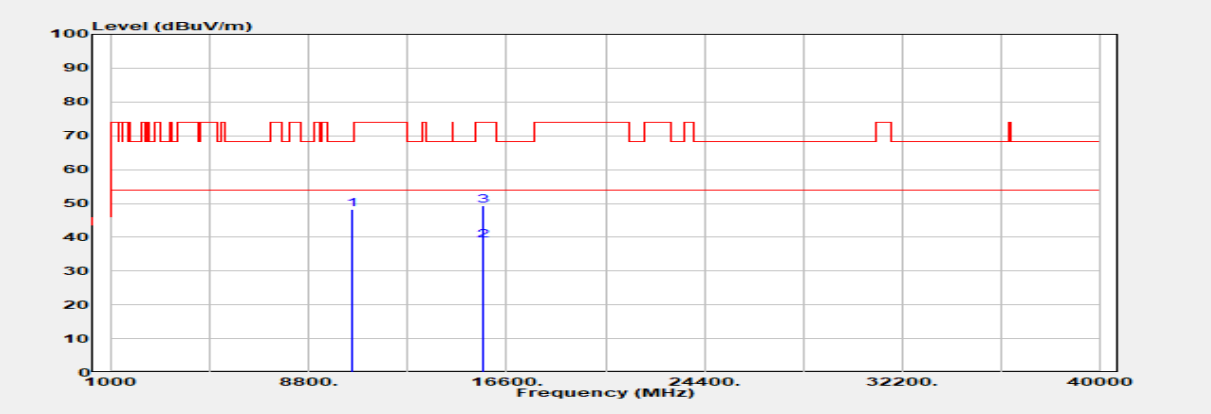
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5230 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10460.000	Peak	38.96	9.23	48.19	68.20	-20.01
15690.000	Average	32.97	6.14	39.10	54.00	-14.90
15690.000	Peak	43.24	6.14	49.37	74.00	-24.63

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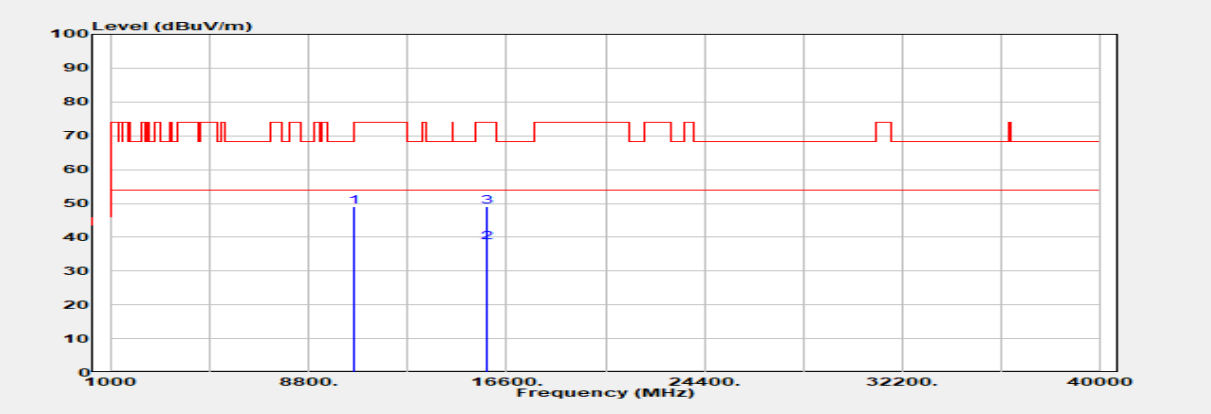
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5270 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	40.29	8.84	49.13	68.20	-19.07
15810.000	Average	33.07	5.51	38.58	54.00	-15.42
15810.000	Peak	43.52	5.51	49.03	74.00	-24.97

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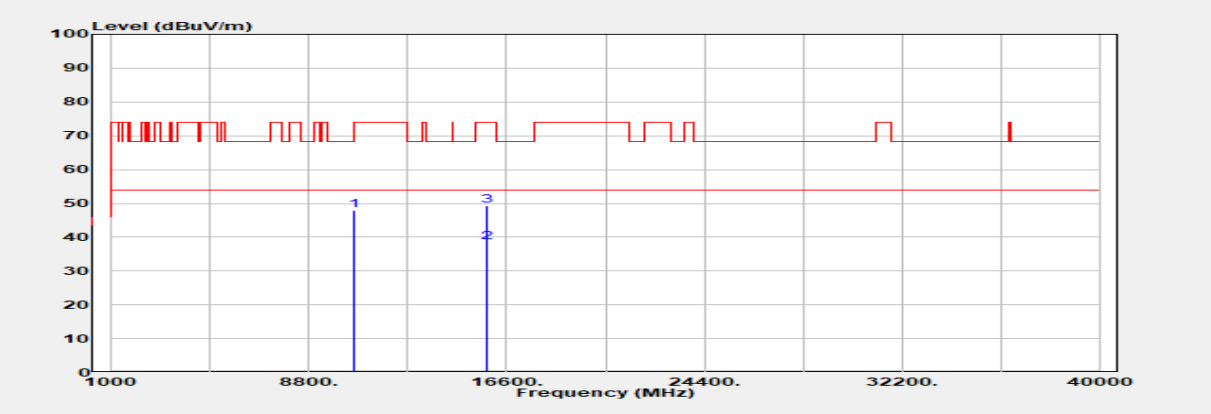
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5270 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	39.12	8.84	47.96	68.20	-20.24
15810.000	Average	33.02	5.51	38.53	54.00	-15.47
15810.000	Peak	43.73	5.51	49.24	74.00	-24.76

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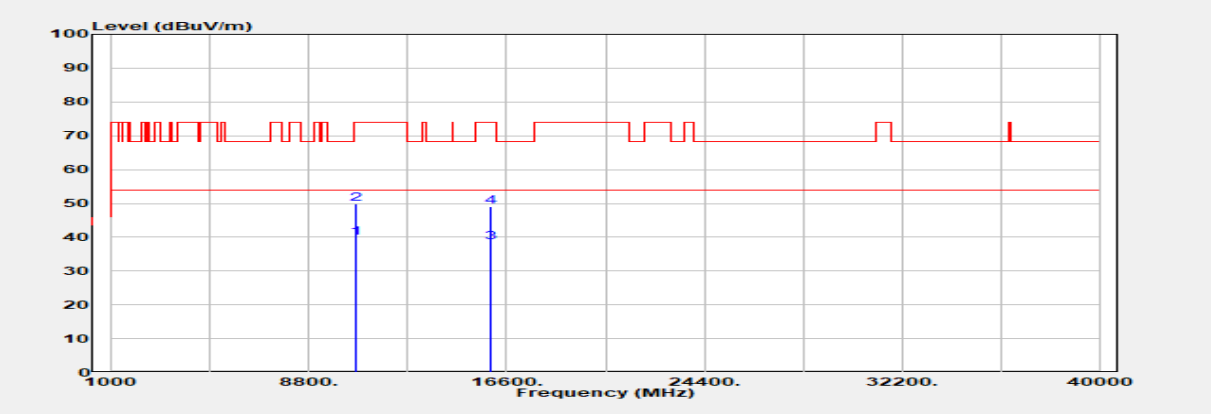
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5310 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	31.05	8.79	39.84	54.00	-14.16
10620.000	Peak	41.21	8.79	50.00	74.00	-24.00
15930.000	Average	32.57	5.90	38.48	54.00	-15.52
15930.000	Peak	43.15	5.90	49.05	74.00	-24.95

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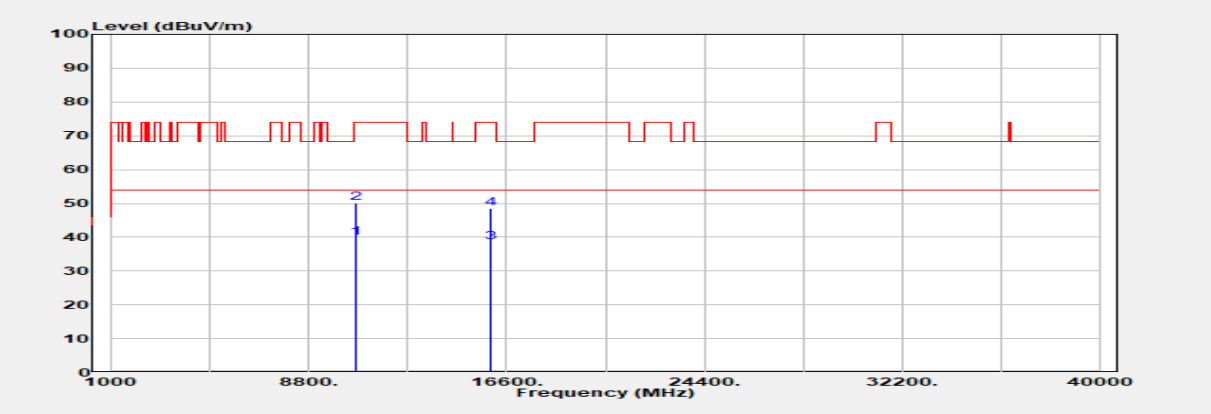
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5310 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	31.06	8.79	39.85	54.00	-14.15
10620.000	Peak	41.26	8.79	50.05	74.00	-23.95
15930.000	Average	32.54	5.90	38.44	54.00	-15.56
15930.000	Peak	42.68	5.90	48.58	74.00	-25.42

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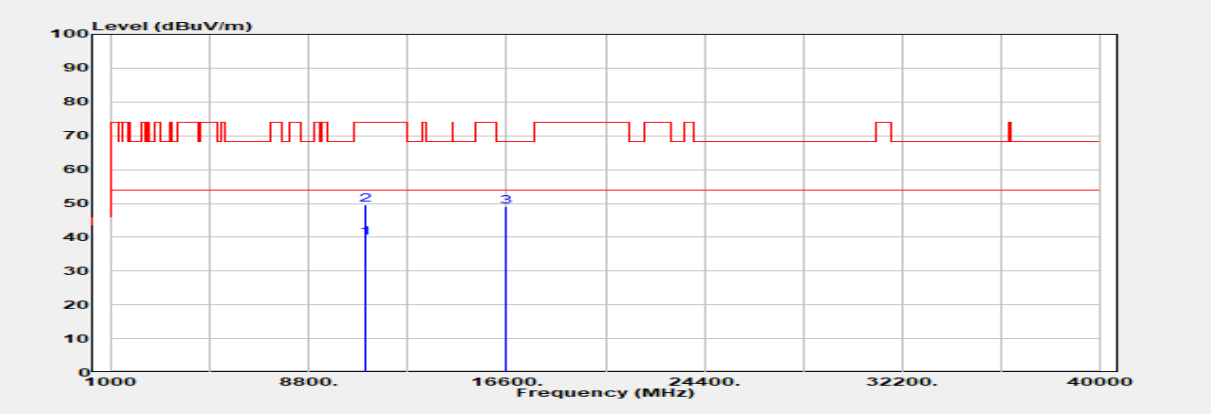
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5510 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	30.96	8.88	39.84	54.00	-14.16
11020.000	Peak	40.60	8.88	49.49	74.00	-24.51
16530.000	Peak	41.21	7.96	49.17	68.20	-19.03

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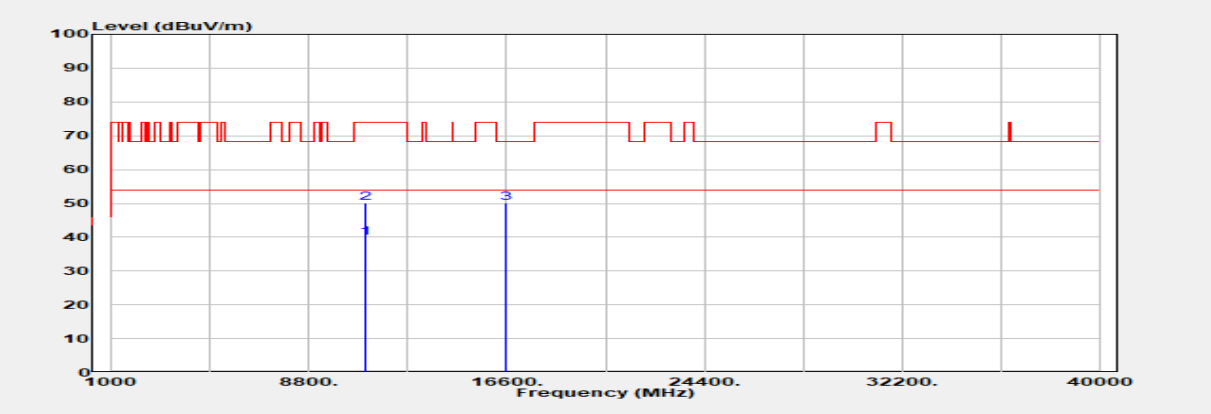
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5510 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	30.95	8.88	39.83	54.00	-14.17
11020.000	Peak	41.22	8.88	50.10	74.00	-23.90
16530.000	Peak	42.15	7.96	50.10	68.20	-18.10

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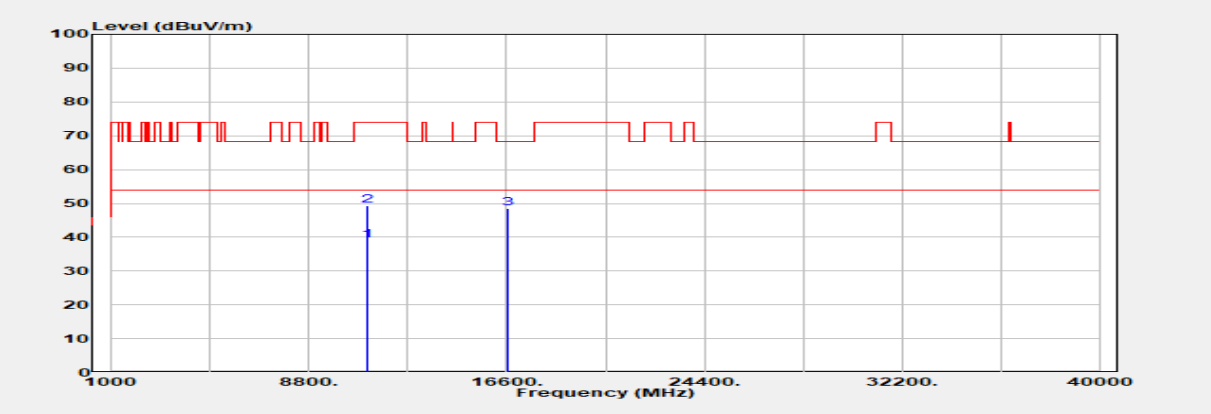
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5550 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.000	Average	31.13	7.87	39.00	54.00	-15.00
11100.000	Peak	41.38	7.87	49.25	74.00	-24.75
16650.000	Peak	40.79	7.78	48.56	68.20	-19.64

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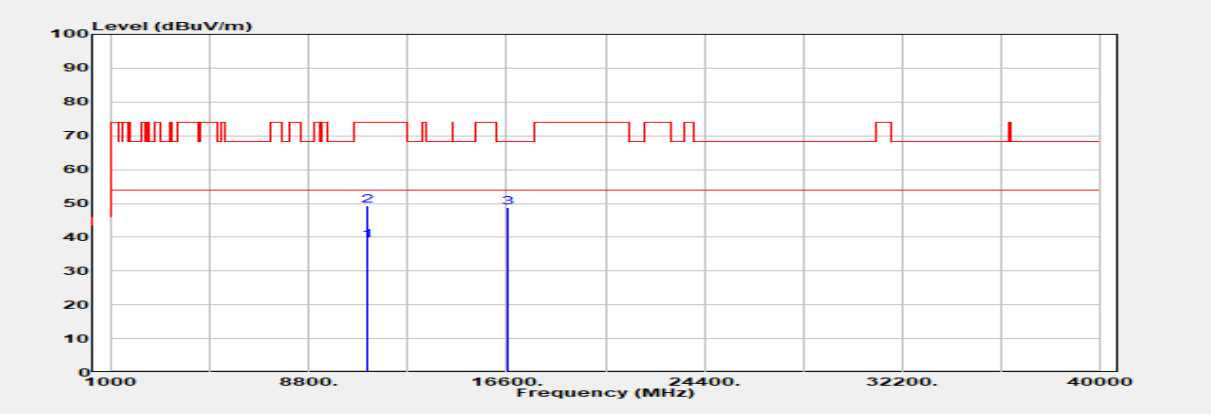
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5550 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.000	Average	31.12	7.87	38.99	54.00	-15.01
11100.000	Peak	41.37	7.87	49.24	74.00	-24.76
16650.000	Peak	41.14	7.78	48.91	68.20	-19.29

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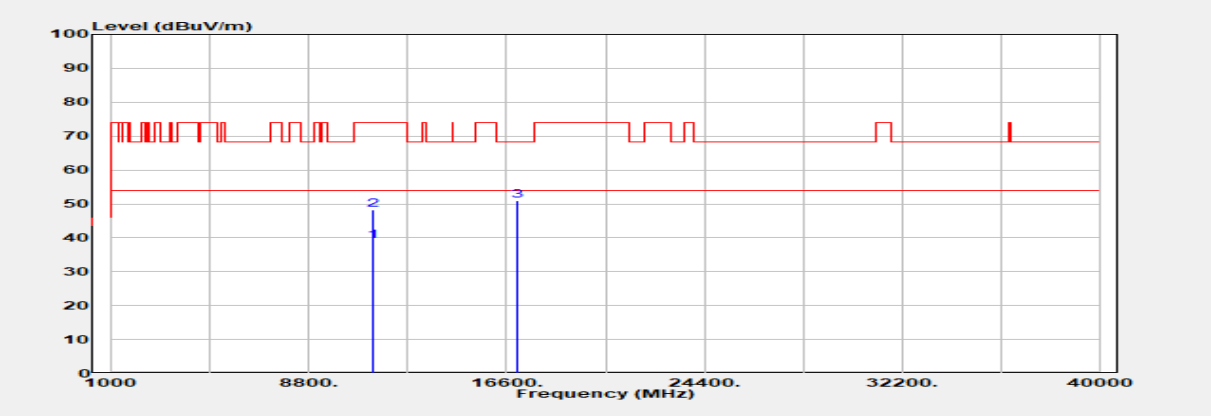
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5670 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11340.000	Average	30.78	8.26	39.04	54.00	-14.96
11340.000	Peak	40.03	8.26	48.29	74.00	-25.71
17010.000	Peak	42.28	8.67	50.95	68.20	-17.25

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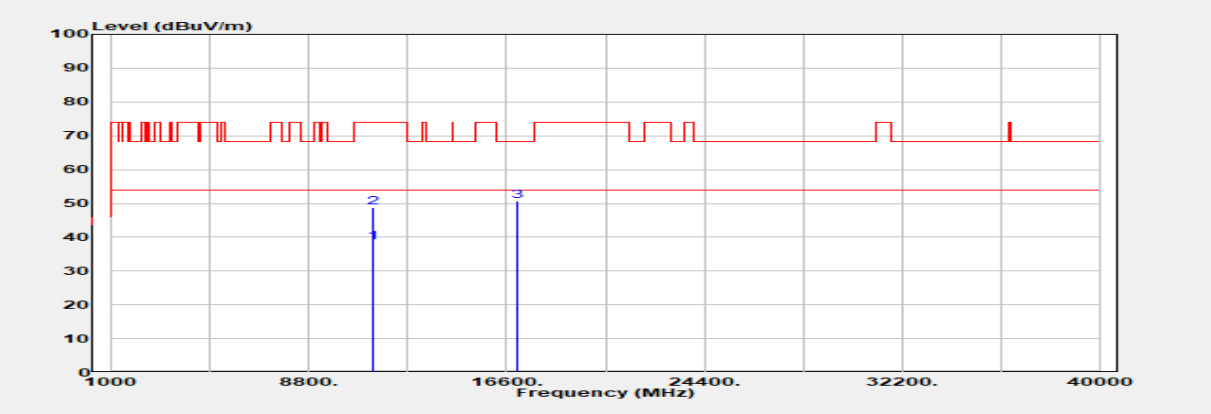
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5670 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11340.000	Average	30.12	8.26	38.38	54.00	-15.62
11340.000	Peak	40.62	8.26	48.88	74.00	-25.12
17010.000	Peak	42.07	8.67	50.74	68.20	-17.46

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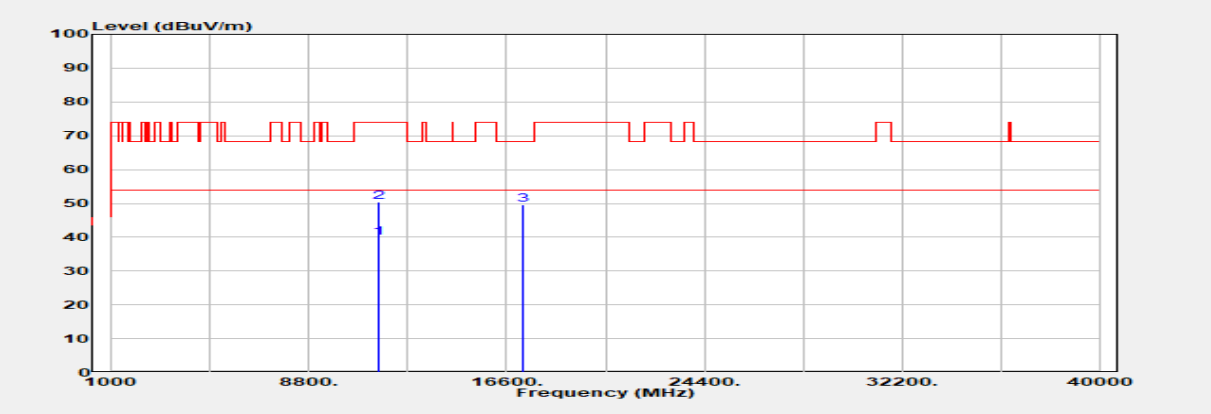
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5755 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	31.07	8.75	39.82	54.00	-14.18
11510.000	Peak	41.69	8.75	50.44	74.00	-23.56
17265.000	Peak	41.12	8.60	49.72	68.20	-18.48

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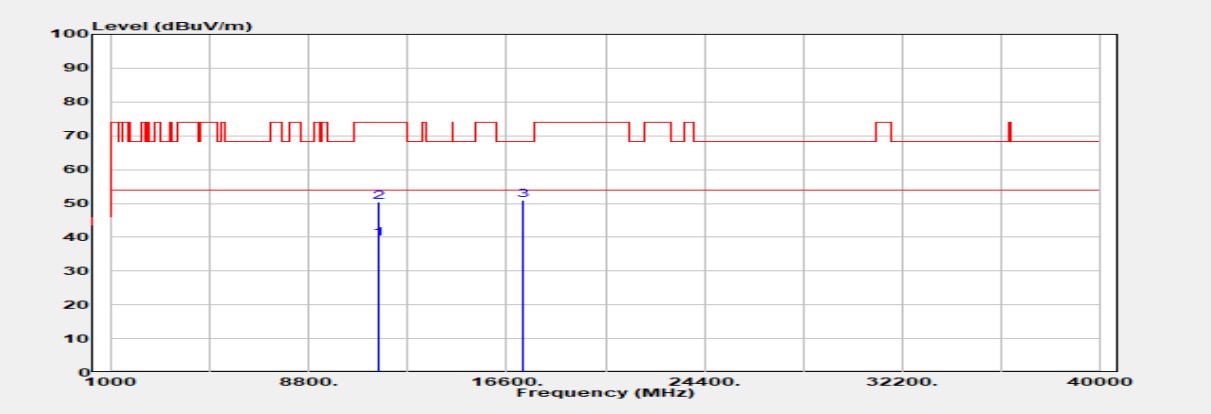
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5755 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	Average	30.95	8.75	39.69	54.00	-14.31
11510.000	Peak	41.59	8.75	50.33	74.00	-23.67
17265.000	Peak	42.26	8.60	50.86	68.20	-17.34

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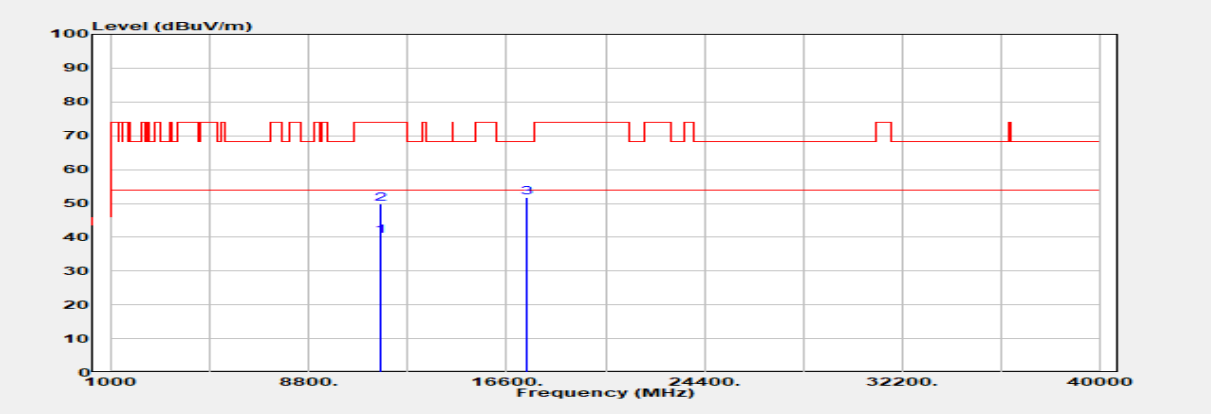
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5795 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11590.000	Average	32.88	7.57	40.45	54.00	-13.55
11590.000	Peak	42.22	7.57	49.79	74.00	-24.21
17385.000	Peak	41.59	10.14	51.73	68.20	-16.47

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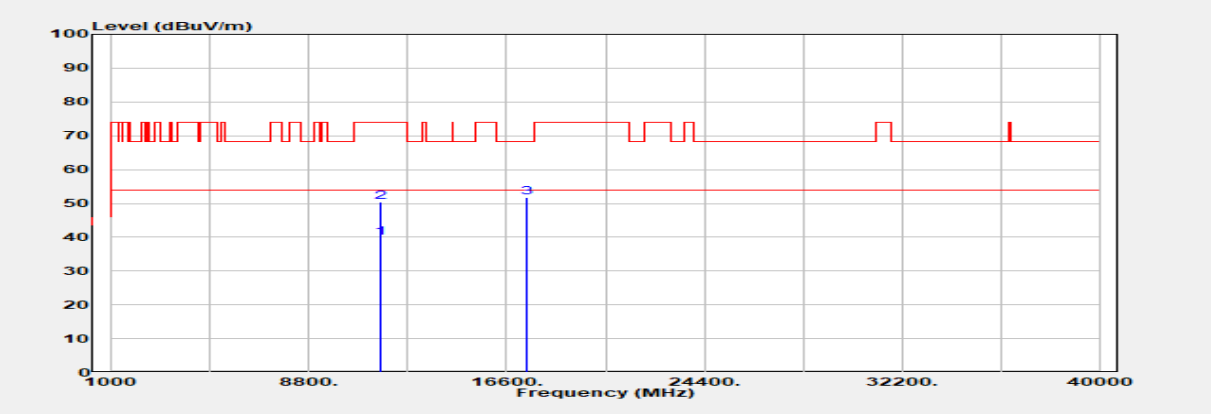
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-20
Test Frequency	:5795 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11590.000	Average	32.35	7.57	39.92	54.00	-14.08
11590.000	Peak	42.92	7.57	50.49	74.00	-23.51
17385.000	Peak	41.63	10.14	51.77	68.20	-16.43

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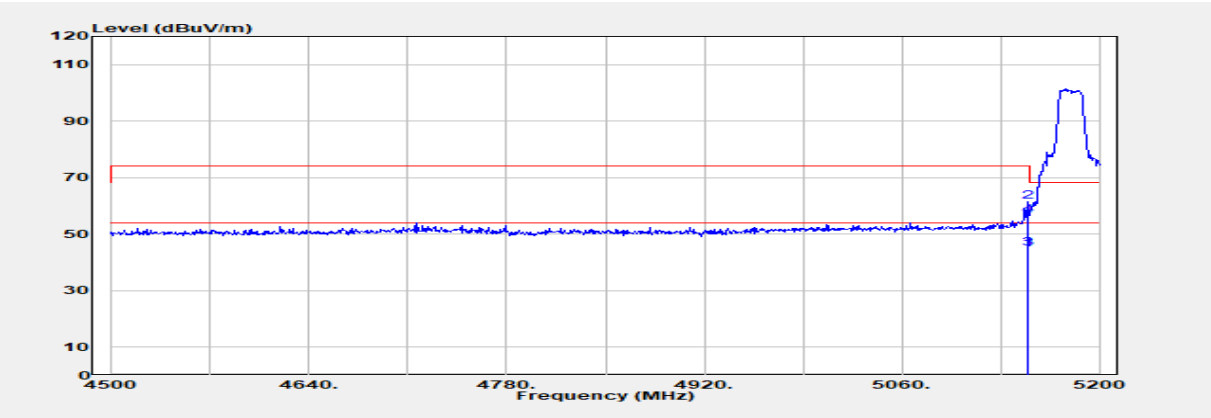
8.6.2 Band edge falling to restricted band

Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-16
Test Frequency	:5180 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5148.900	Average	43.57	1.09	44.66	54.00	-9.34
5148.900	Peak	60.52	1.09	61.61	74.00	-12.39
5150.000	Average	43.93	1.10	45.02	54.00	-8.98
5150.000	Peak	55.40	1.10	56.49	74.00	-17.51

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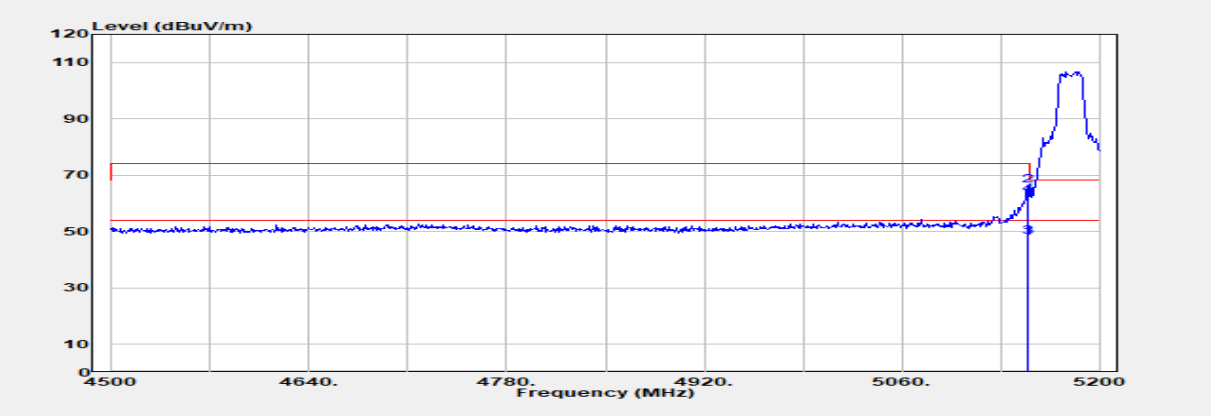
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-16
Test Frequency	:5180 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5148.900	Average	46.67	1.09	47.76	54.00	-6.24
5148.900	Peak	65.31	1.09	66.40	74.00	-7.60
5150.000	Average	47.09	1.10	48.18	54.00	-5.82
5150.000	Peak	62.13	1.10	63.23	74.00	-10.77

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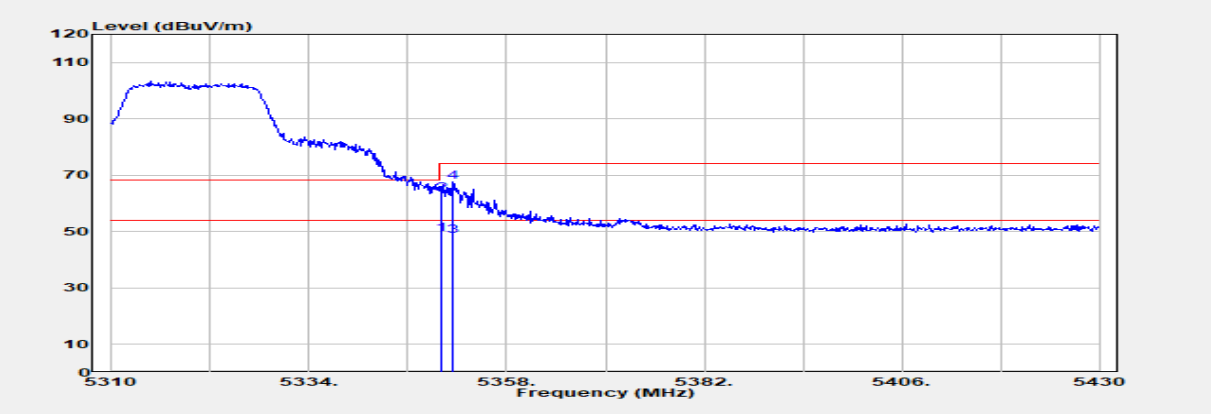
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-16
Test Frequency	:5320 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.000	Average	48.36	0.72	49.08	54.00	-4.92
5350.000	Peak	62.54	0.72	63.26	74.00	-10.74
5351.400	Average	47.61	0.73	48.34	54.00	-5.66
5351.400	Peak	66.91	0.73	67.64	74.00	-6.36

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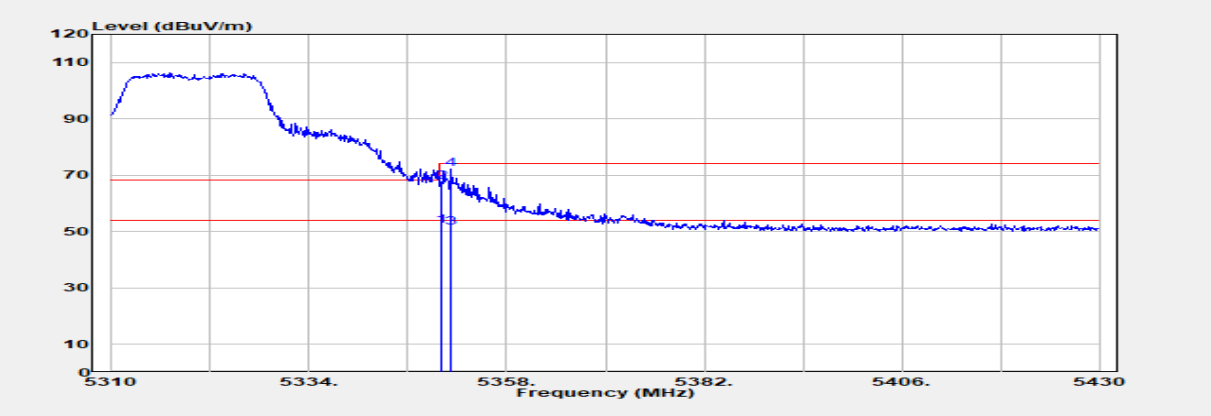
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-16
Test Frequency	:5320 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.000	Average	51.31	0.72	52.03	54.00	-1.97
5350.000	Peak	67.02	0.72	67.74	74.00	-6.26
5351.280	Average	50.56	0.73	51.29	54.00	-2.71
5351.280	Peak	71.61	0.73	72.34	74.00	-1.66

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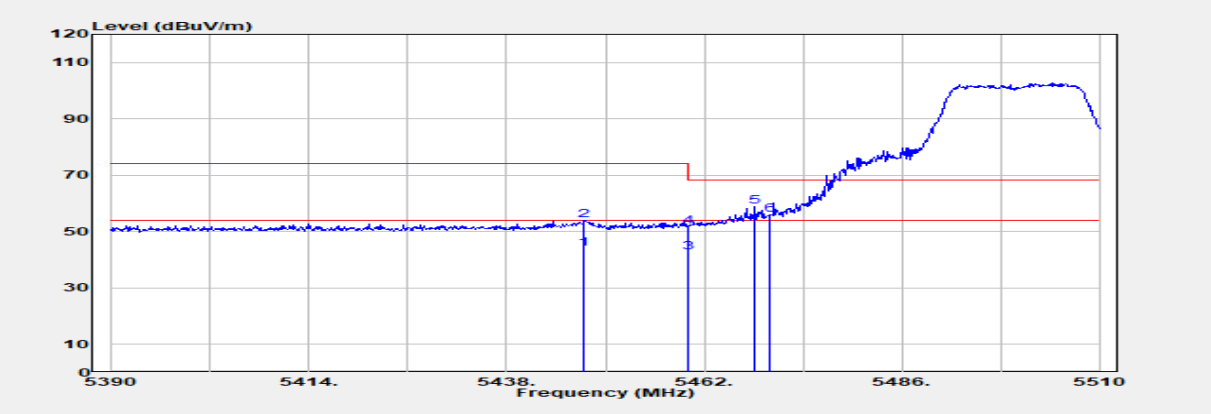
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-16
Test Frequency	:5500 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5447.360	Average	42.53	1.42	43.95	54.00	-10.05
5447.360	Peak	52.49	1.42	53.90	74.00	-20.10
5460.000	Average	40.98	1.54	42.52	54.00	-11.48
5460.000	Peak	50.21	1.54	51.76	74.00	-22.24
5468.120	Peak	57.11	1.63	58.74	68.20	-9.46
5470.000	Peak	54.14	1.65	55.79	68.20	-12.41

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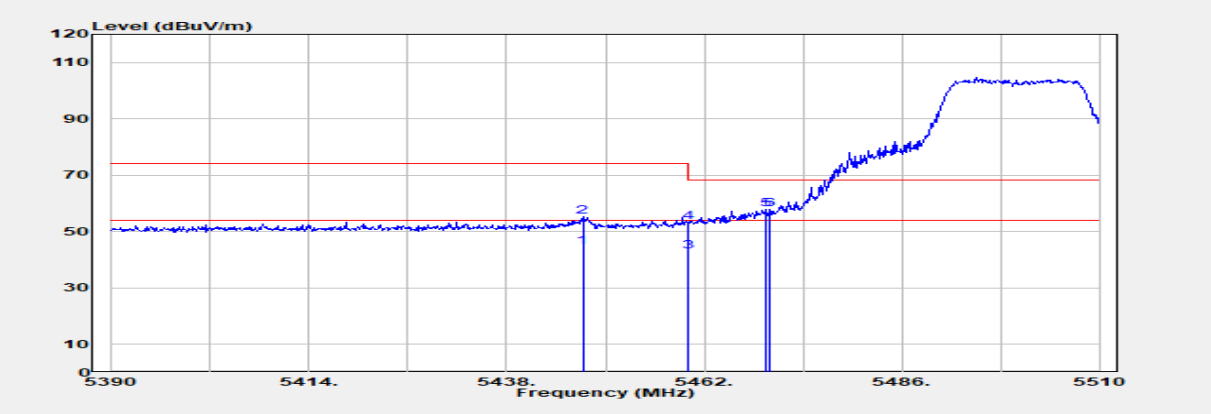
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-16
Test Frequency	:5500 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5447.240	Average	43.01	1.42	44.43	54.00	-9.57
5447.240	Peak	53.83	1.42	55.25	74.00	-18.75
5460.000	Average	41.45	1.54	42.99	54.00	-11.01
5460.000	Peak	51.83	1.54	53.37	74.00	-20.63
5469.560	Peak	56.18	1.64	57.83	68.20	-10.37
5470.000	Peak	56.34	1.65	57.99	68.20	-10.21

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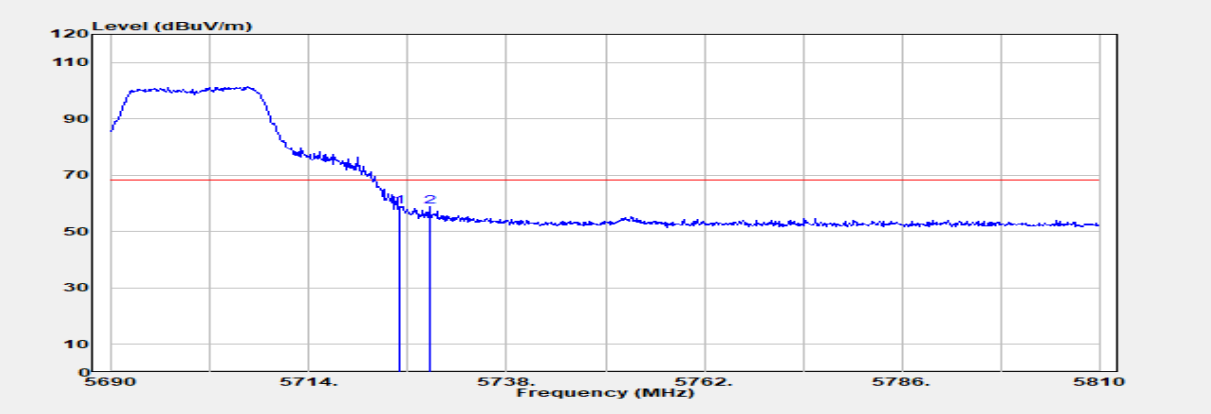
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-16
Test Frequency	:5700 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	56.54	2.20	58.74	68.20	-9.46
5728.640	Peak	56.72	2.22	58.95	68.20	-9.25

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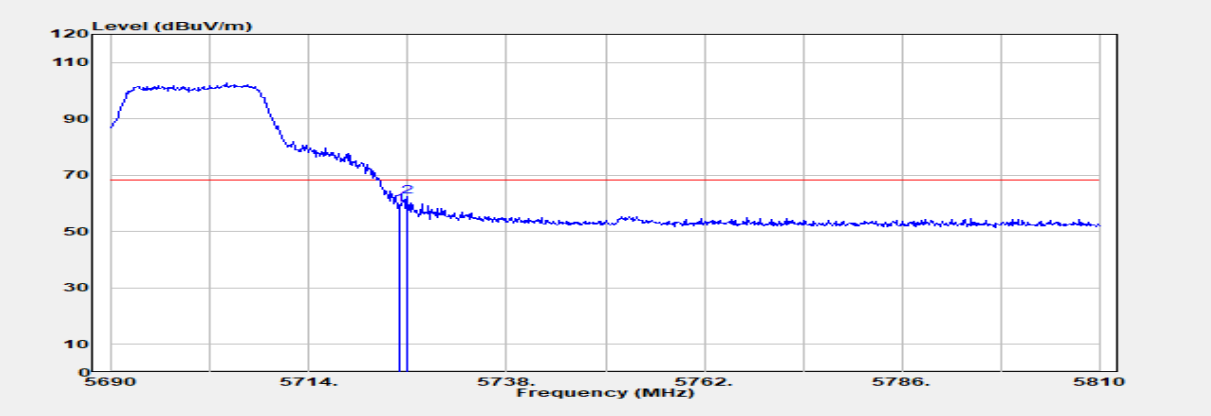
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-16
Test Frequency	:5700 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.000	Peak	57.30	2.20	59.50	68.20	-8.70
5725.880	Peak	60.17	2.21	62.37	68.20	-5.83

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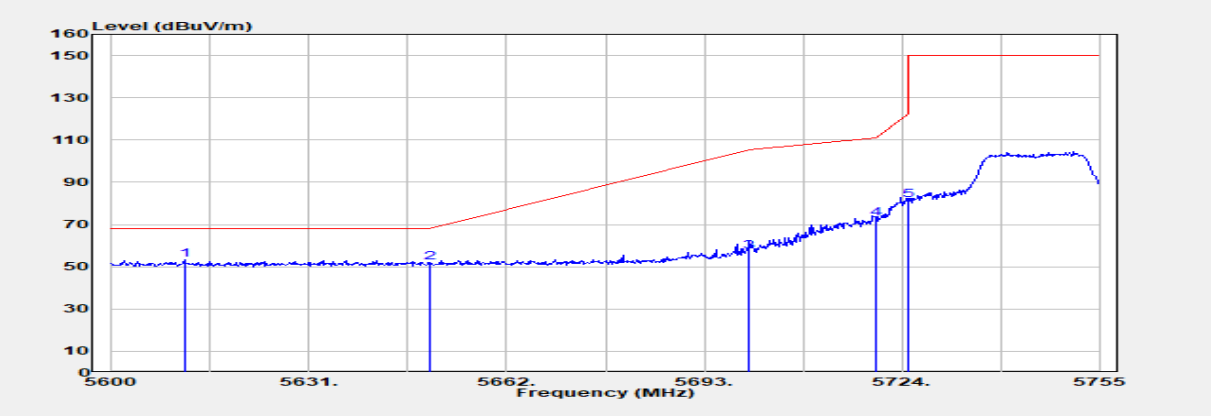
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-16
Test Frequency	:5745 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5611.470	Peak	52.10	1.20	53.30	68.20	-14.90
5650.000	Peak	50.74	1.41	52.15	68.20	-16.05
5700.000	Peak	55.11	2.03	57.14	105.20	-48.06
5720.000	Peak	70.63	2.17	72.80	110.80	-38.00
5725.000	Peak	79.33	2.20	81.53	122.20	-40.67

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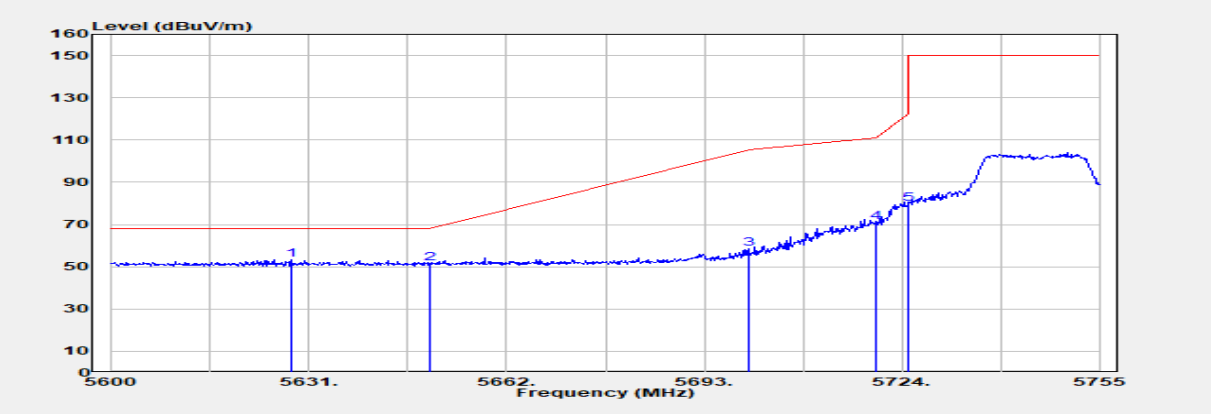
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-16
Test Frequency	:5745 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5628.210	Peak	51.92	1.29	53.21	68.20	-14.99
5650.000	Peak	50.34	1.41	51.75	68.20	-16.45
5700.000	Peak	56.48	2.03	58.51	105.20	-46.69
5720.000	Peak	69.11	2.17	71.28	110.80	-39.52
5725.000	Peak	77.49	2.20	79.69	122.20	-42.51

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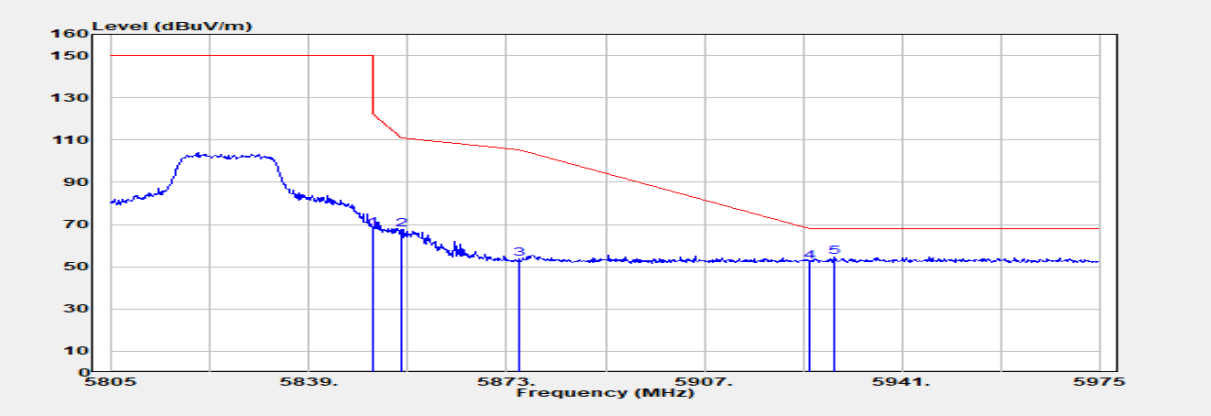
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-16
Test Frequency	:5825 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	65.82	2.35	68.17	122.20	-54.03
5855.000	Peak	65.48	2.36	67.83	110.80	-42.97
5875.000	Peak	51.25	2.40	53.65	105.20	-51.55
5925.000	Peak	49.98	2.60	52.58	68.20	-15.62
5929.440	Peak	52.06	2.62	54.68	68.20	-13.52

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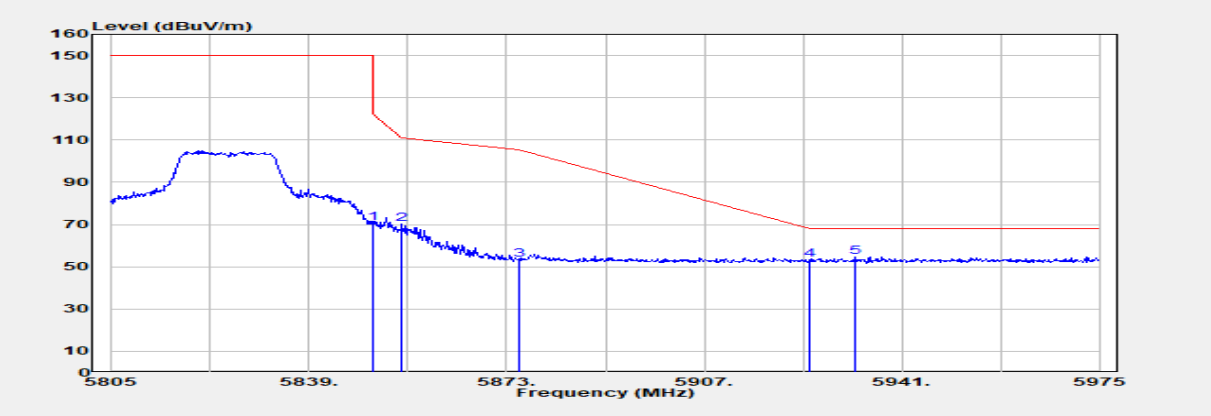
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11a	Test Date	:2024-08-16
Test Frequency	:5825 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	68.24	2.35	70.59	122.20	-51.61
5855.000	Peak	67.70	2.36	70.06	110.80	-40.74
5875.000	Peak	51.10	2.40	53.49	105.20	-51.71
5925.000	Peak	50.94	2.60	53.53	68.20	-14.67
5932.840	Peak	52.05	2.64	54.70	68.20	-13.50

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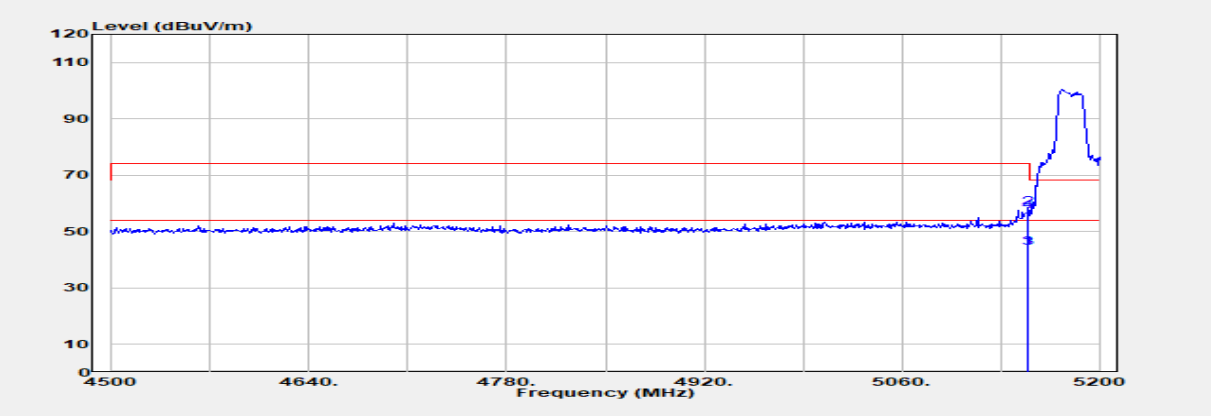
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-16
Test Frequency	:5180 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5149.600	Average	43.22	1.09	44.32	54.00	-9.68
5149.600	Peak	57.29	1.09	58.38	74.00	-15.62
5150.000	Average	43.27	1.10	44.37	54.00	-9.63
5150.000	Peak	56.10	1.10	57.20	74.00	-16.80

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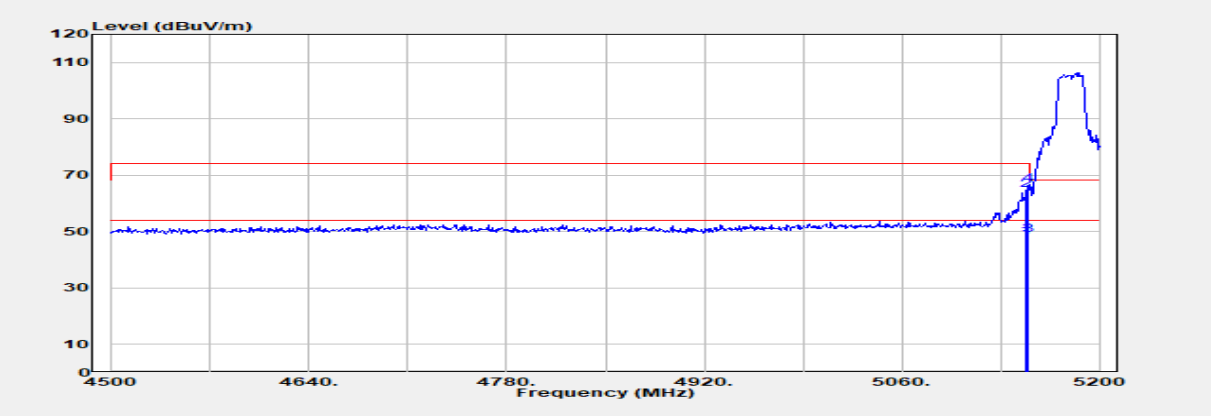
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-16
Test Frequency	:5180 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5148.200	Average	47.08	1.09	48.17	54.00	-5.83
5148.200	Peak	63.67	1.09	64.76	74.00	-9.24
5150.000	Average	47.65	1.10	48.74	54.00	-5.26
5150.000	Peak	65.55	1.10	66.65	74.00	-7.35

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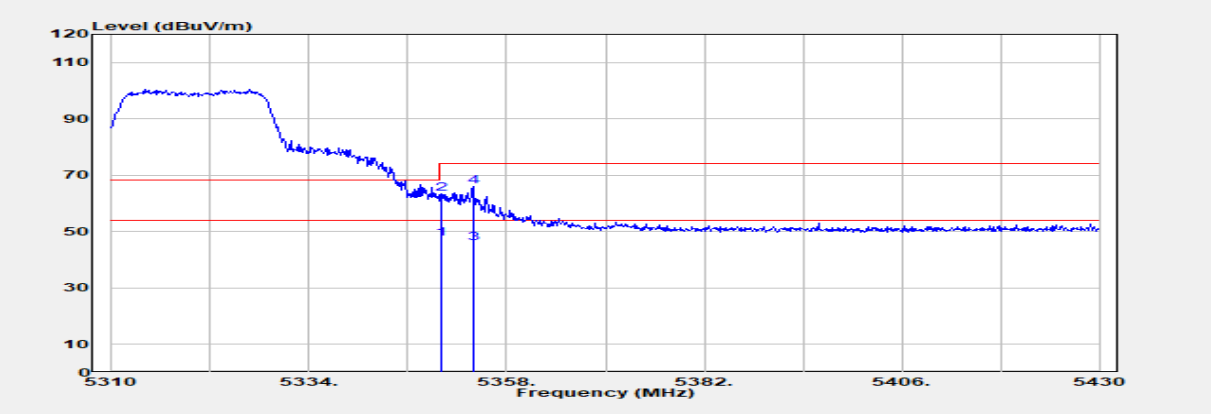
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-16
Test Frequency	:5320 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.000	Average	46.72	0.72	47.44	54.00	-6.56
5350.000	Peak	62.55	0.72	63.27	74.00	-10.73
5353.920	Average	44.99	0.75	45.74	54.00	-8.26
5353.920	Peak	65.29	0.75	66.04	74.00	-7.96

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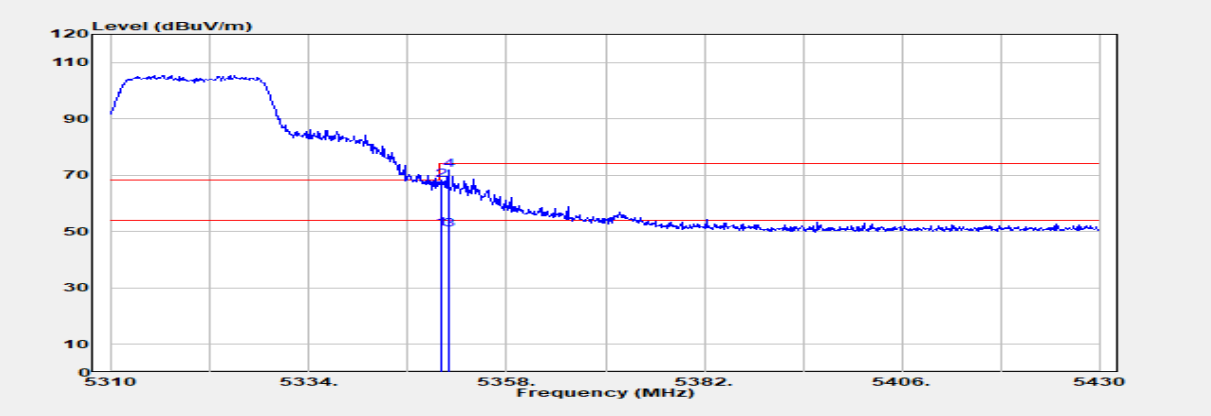
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-16
Test Frequency	:5320 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.000	Average	50.41	0.72	51.13	54.00	-2.87
5350.000	Peak	67.72	0.72	68.44	74.00	-5.56
5350.920	Average	49.94	0.73	50.67	54.00	-3.33
5350.920	Peak	71.22	0.73	71.94	74.00	-2.06

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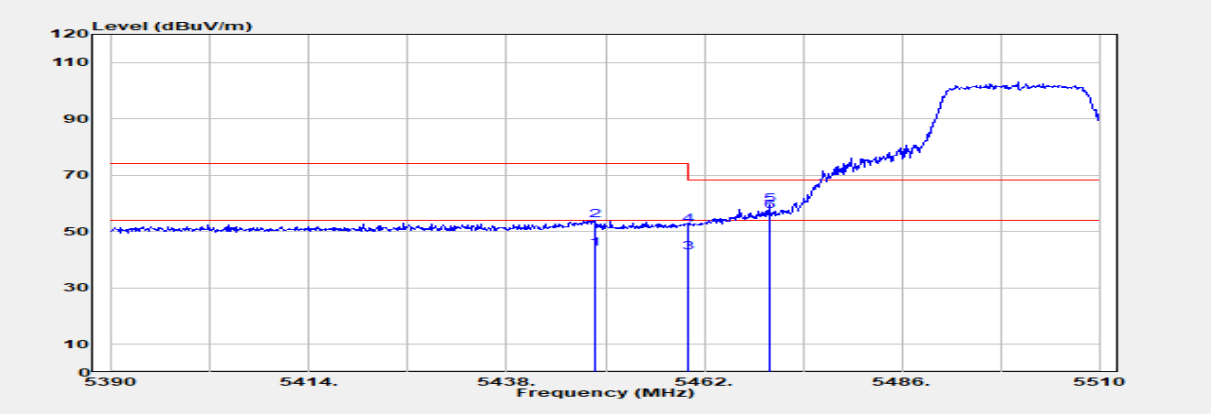
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-16
Test Frequency	:5500 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5448.680	Average	42.53	1.43	43.95	54.00	-10.05
5448.680	Peak	52.49	1.43	53.91	74.00	-20.09
5460.000	Average	41.10	1.54	42.65	54.00	-11.35
5460.000	Peak	50.70	1.54	52.24	74.00	-21.76
5469.920	Peak	57.99	1.65	59.63	68.20	-8.57
5470.000	Peak	55.63	1.65	57.28	68.20	-10.92

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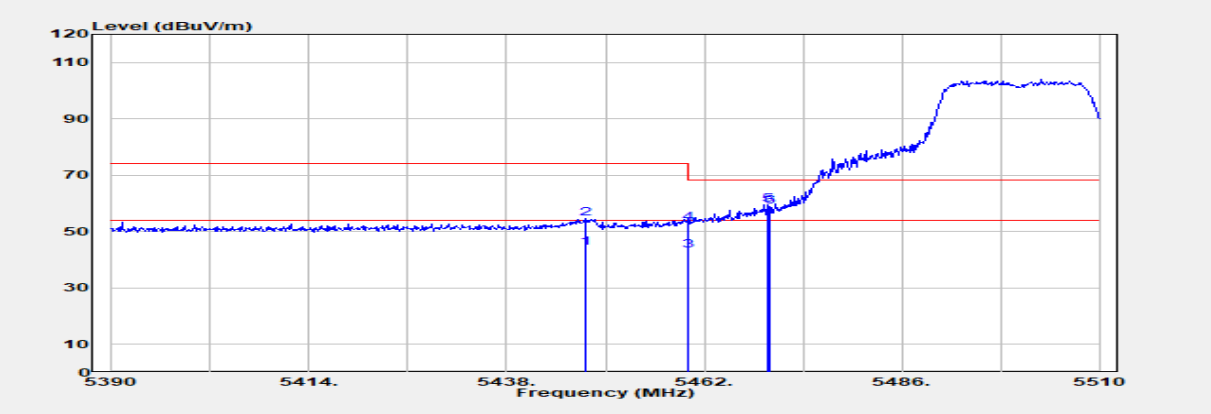
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-16
Test Frequency	:5500 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5447.480	Average	42.96	1.42	44.38	54.00	-9.62
5447.480	Peak	53.27	1.42	54.69	74.00	-19.31
5460.000	Average	41.59	1.54	43.13	54.00	-10.87
5460.000	Peak	51.47	1.54	53.01	74.00	-20.99
5469.680	Peak	57.98	1.65	59.63	68.20	-8.57
5470.000	Peak	57.37	1.65	59.02	68.20	-9.18

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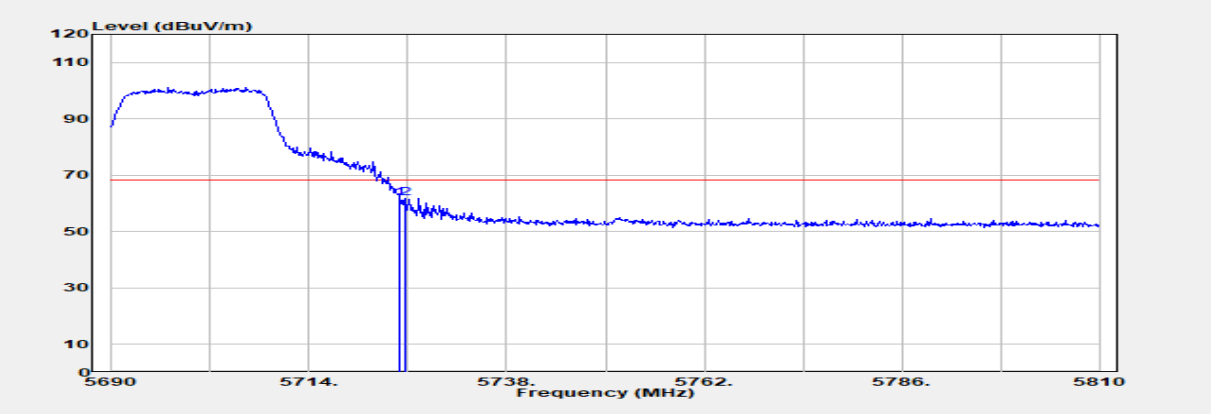
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-16
Test Frequency	:5700 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.000	Peak	59.45	2.20	61.65	68.20	-6.55
5725.640	Peak	59.58	2.20	61.79	68.20	-6.41

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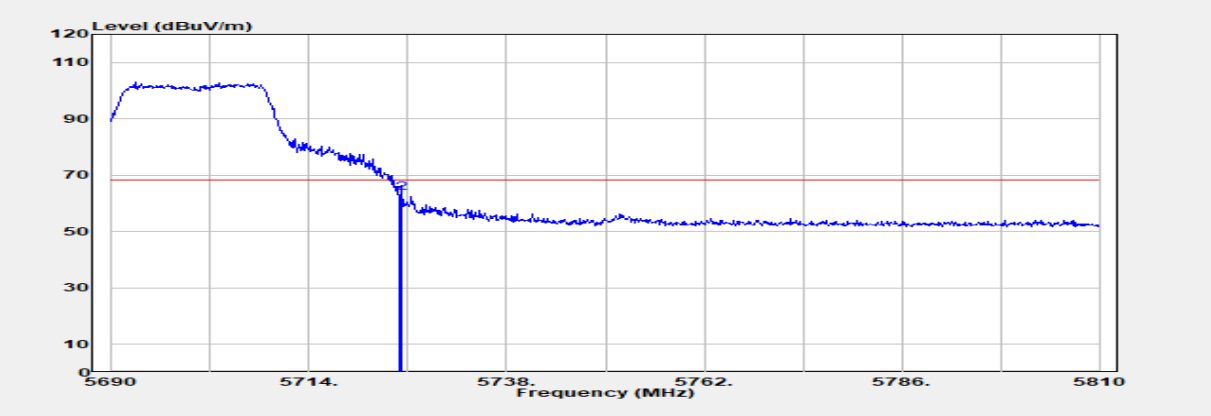
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-16
Test Frequency	:5700 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	60.20	2.20	62.40	68.20	-5.80
5725.160	Peak	61.42	2.20	63.62	68.20	-4.58

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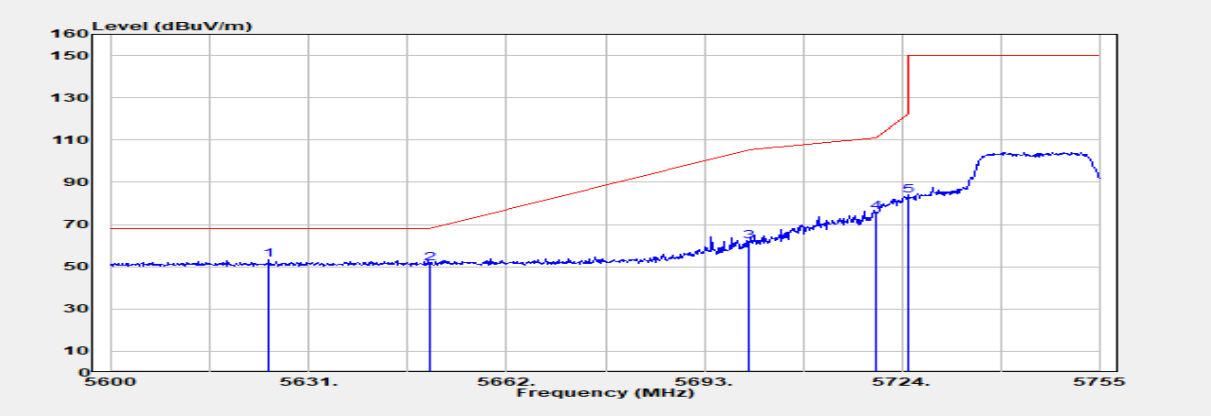
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-16
Test Frequency	:5745 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5624.645	Peak	51.97	1.27	53.24	68.20	-14.96
5650.000	Peak	50.33	1.41	51.74	68.20	-16.46
5700.000	Peak	59.83	2.03	61.86	105.20	-43.34
5720.000	Peak	73.51	2.17	75.68	110.80	-35.12
5725.000	Peak	81.48	2.20	83.68	122.20	-38.52

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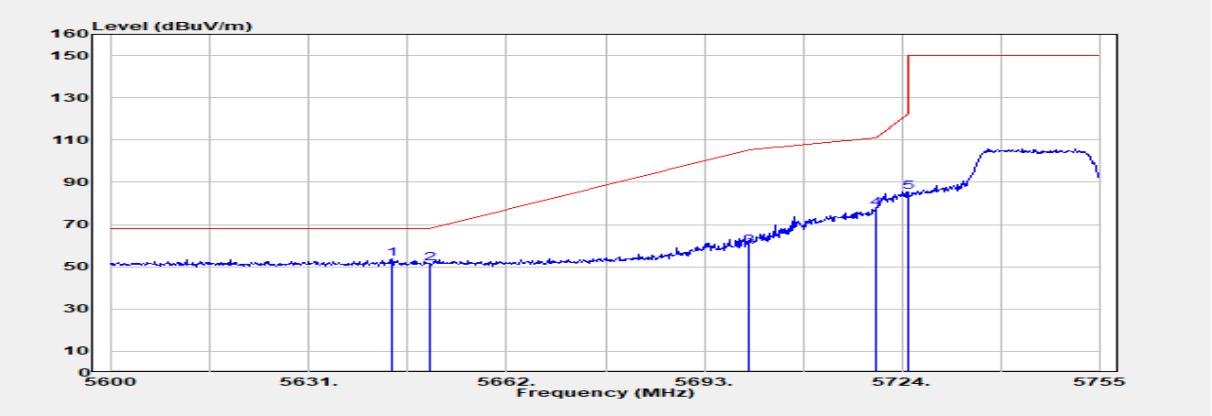
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-16
Test Frequency	:5745 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5643.865	Peak	52.23	1.38	53.61	68.20	-14.59
5650.000	Peak	50.18	1.41	51.59	68.20	-16.61
5700.000	Peak	57.94	2.03	59.97	105.20	-45.23
5720.000	Peak	75.60	2.17	77.77	110.80	-33.03
5725.000	Peak	83.27	2.20	85.47	122.20	-36.73

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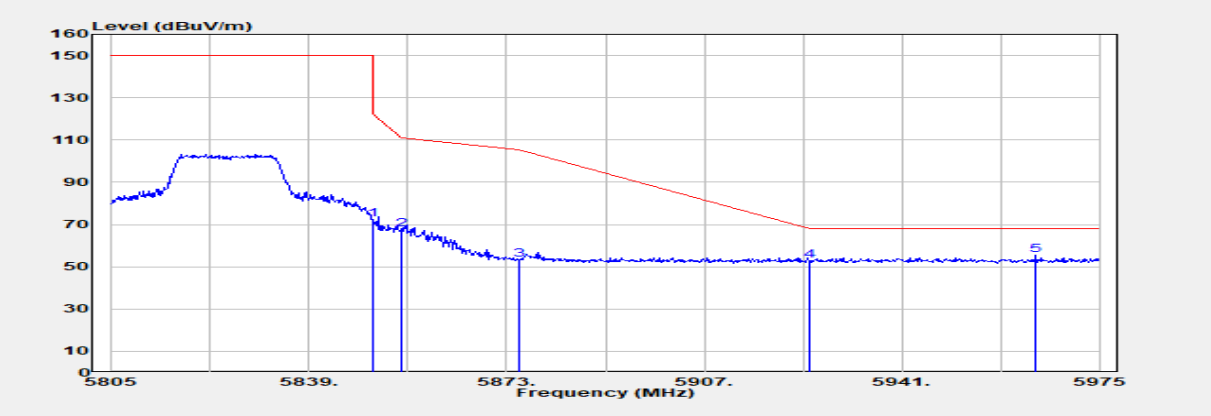
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-16
Test Frequency	:5825 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.000	Peak	70.13	2.35	72.48	122.20	-49.72
5855.000	Peak	65.19	2.36	67.55	110.80	-43.25
5875.000	Peak	50.86	2.40	53.26	105.20	-51.94
5925.000	Peak	50.43	2.60	53.03	68.20	-15.17
5964.120	Peak	52.64	2.77	55.41	68.20	-12.79

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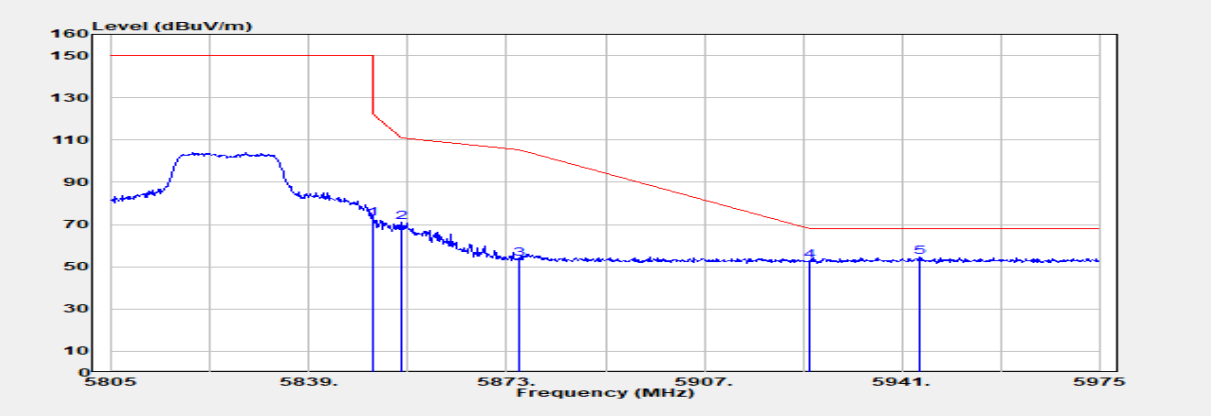
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n20	Test Date	:2024-08-16
Test Frequency	:5825 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.000	Peak	70.41	2.35	72.76	122.20	-49.44
5855.000	Peak	68.97	2.36	71.32	110.80	-39.48
5875.000	Peak	51.47	2.40	53.87	105.20	-51.33
5925.000	Peak	50.41	2.60	53.01	68.20	-15.19
5944.060	Peak	51.96	2.71	54.66	68.20	-13.54

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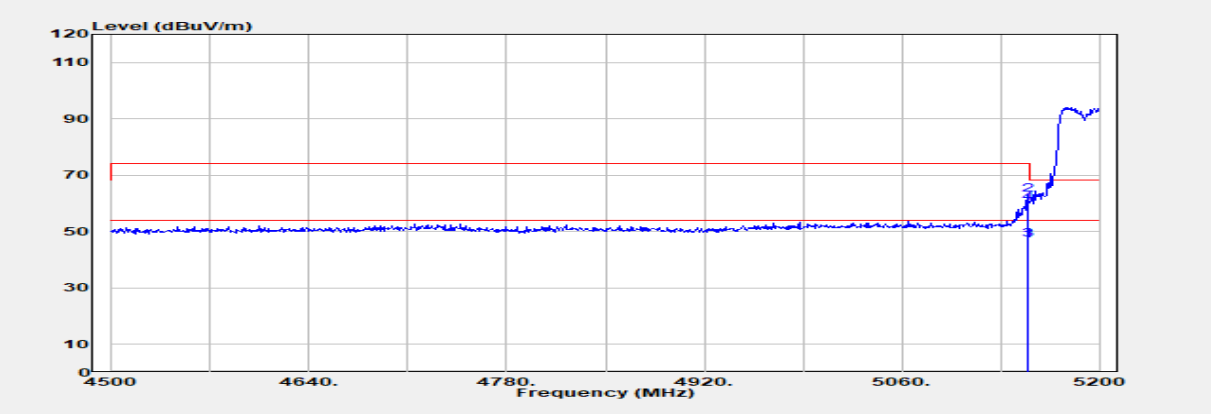
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-16
Test Frequency	:5190 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5148.900	Average	45.60	1.09	46.69	54.00	-7.31
5148.900	Peak	61.99	1.09	63.08	74.00	-10.92
5150.000	Average	46.11	1.10	47.21	54.00	-6.79
5150.000	Peak	59.14	1.10	60.23	74.00	-13.77

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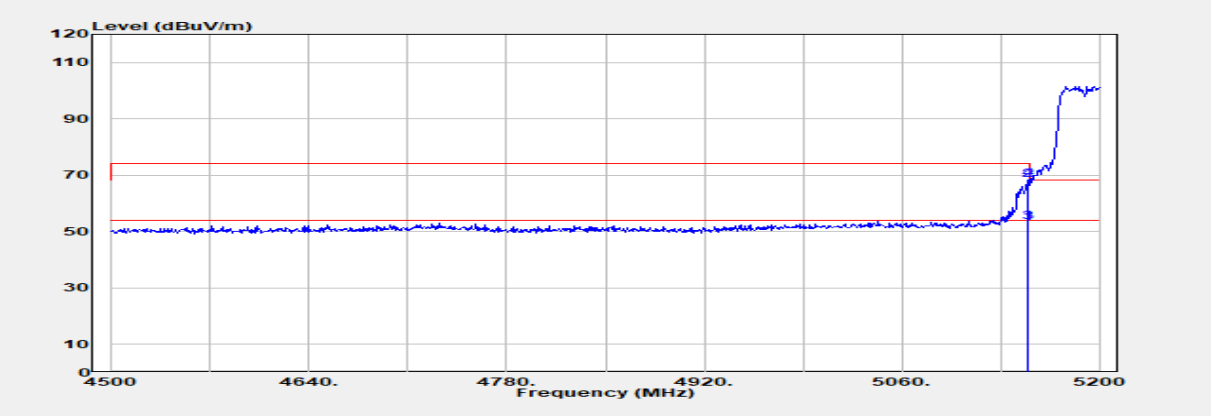
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-16
Test Frequency	:5190 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5148.900	Average	52.03	1.09	53.13	54.00	-0.87
5148.900	Peak	67.09	1.09	68.18	74.00	-5.82
5150.000	Average	52.38	1.10	53.48	54.00	-0.52
5150.000	Peak	67.66	1.10	68.75	74.00	-5.25

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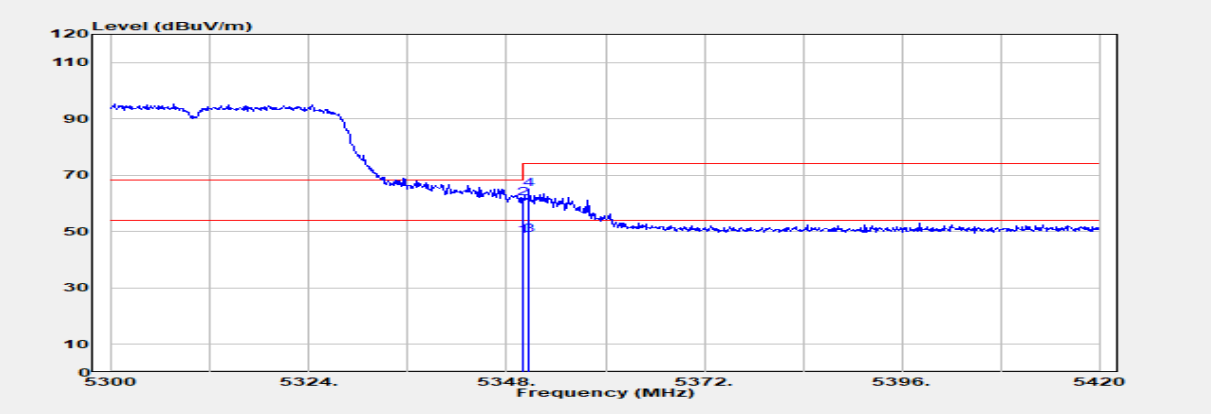
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-16
Test Frequency	:5310 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.000	Average	47.83	0.72	48.55	54.00	-5.45
5350.000	Peak	60.93	0.72	61.65	74.00	-12.35
5350.760	Average	48.15	0.73	48.88	54.00	-5.12
5350.760	Peak	64.17	0.73	64.89	74.00	-9.11

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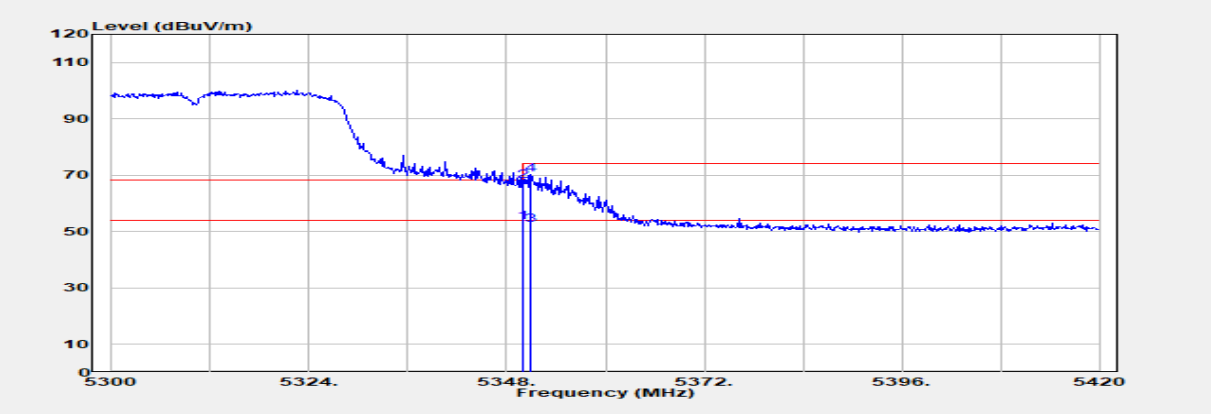
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-16
Test Frequency	:5310 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.000	Average	52.53	0.72	53.25	54.00	-0.75
5350.000	Peak	67.40	0.72	68.12	74.00	-5.88
5351.000	Average	51.71	0.73	52.44	54.00	-1.56
5351.000	Peak	69.62	0.73	70.34	74.00	-3.66

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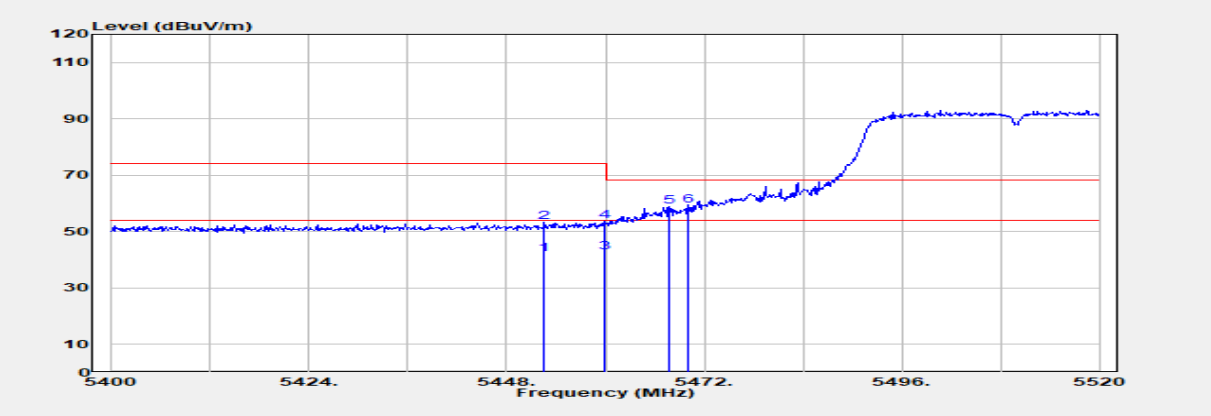
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-16
Test Frequency	:5510 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5452.560	Average	40.65	1.46	42.11	54.00	-11.89
5452.560	Peak	51.90	1.46	53.36	74.00	-20.64
5460.000	Average	41.21	1.54	42.75	54.00	-11.25
5460.000	Peak	52.02	1.54	53.56	74.00	-20.44
5467.800	Peak	57.23	1.63	58.85	68.20	-9.35
5470.000	Peak	57.55	1.65	59.20	68.20	-9.00

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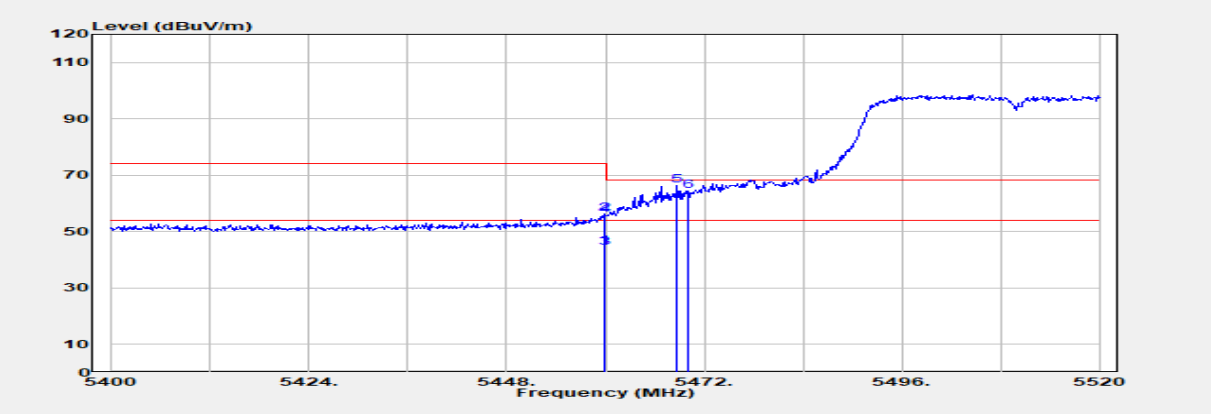
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-16
Test Frequency	:5510 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5459.880	Average	42.98	1.54	44.53	54.00	-9.47
5459.880	Peak	54.72	1.54	56.27	74.00	-17.73
5460.000	Average	42.80	1.54	44.35	54.00	-9.65
5460.000	Peak	54.55	1.54	56.09	74.00	-17.91
5468.760	Peak	64.87	1.64	66.50	68.20	-1.70
5470.000	Peak	62.74	1.65	64.39	68.20	-3.81

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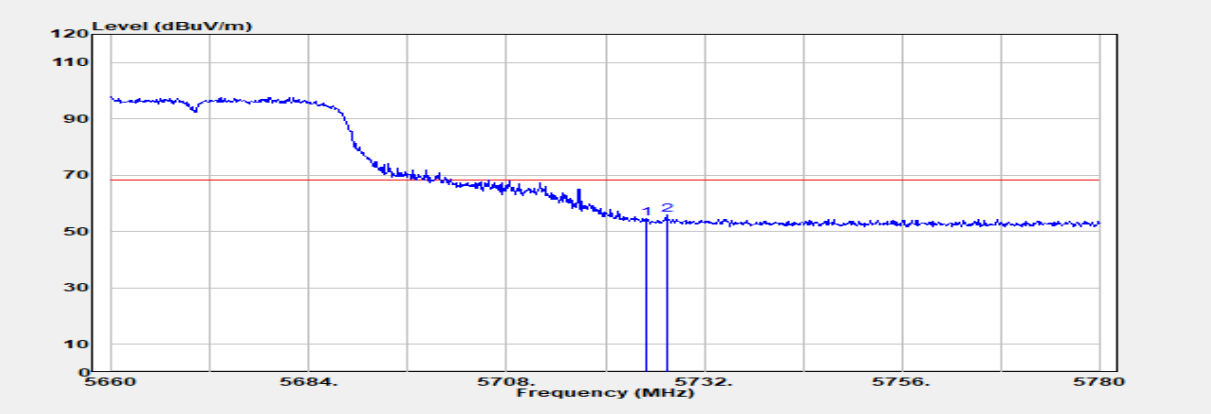
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-19
Test Frequency	:5670 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	52.41	2.20	54.61	68.20	-13.59
5727.440	Peak	53.56	2.22	55.77	68.20	-12.43

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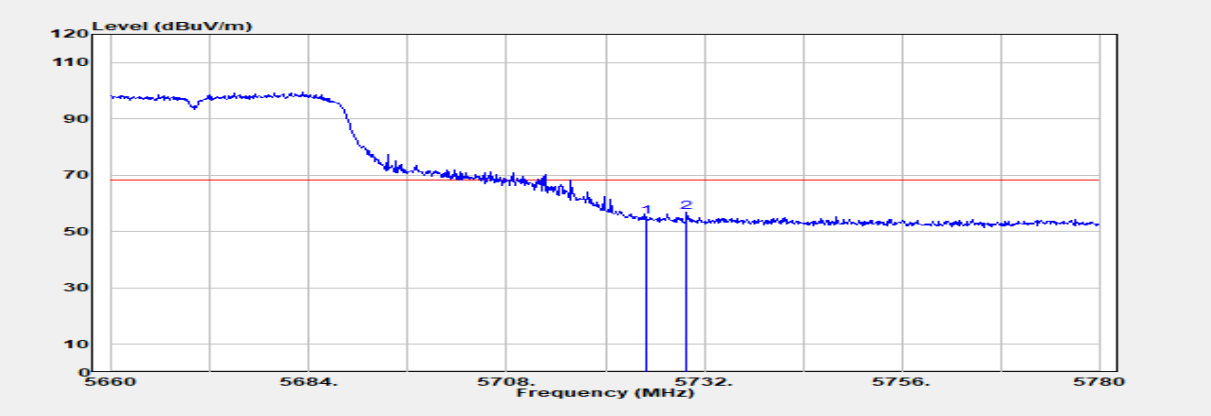
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-19
Test Frequency	:5670 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	53.20	2.20	55.40	68.20	-12.80
5729.840	Peak	54.52	2.23	56.75	68.20	-11.45

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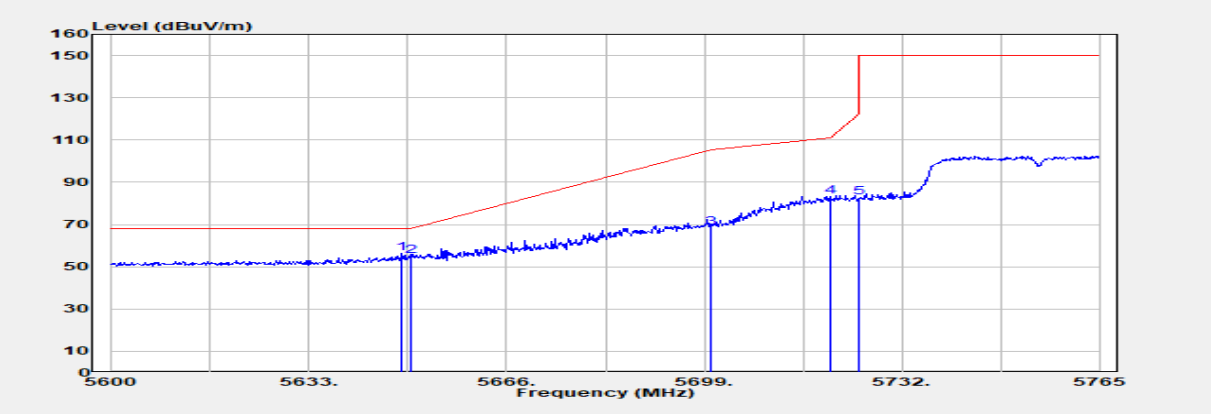
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-16
Test Frequency	:5755 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5648.510	Peak	54.80	1.40	56.20	68.20	-12.00
5650.000	Peak	53.86	1.41	55.27	68.20	-12.93
5700.000	Peak	66.27	2.03	68.30	105.20	-36.90
5720.000	Peak	80.89	2.17	83.06	110.80	-27.74
5725.000	Peak	80.82	2.20	83.02	122.20	-39.18

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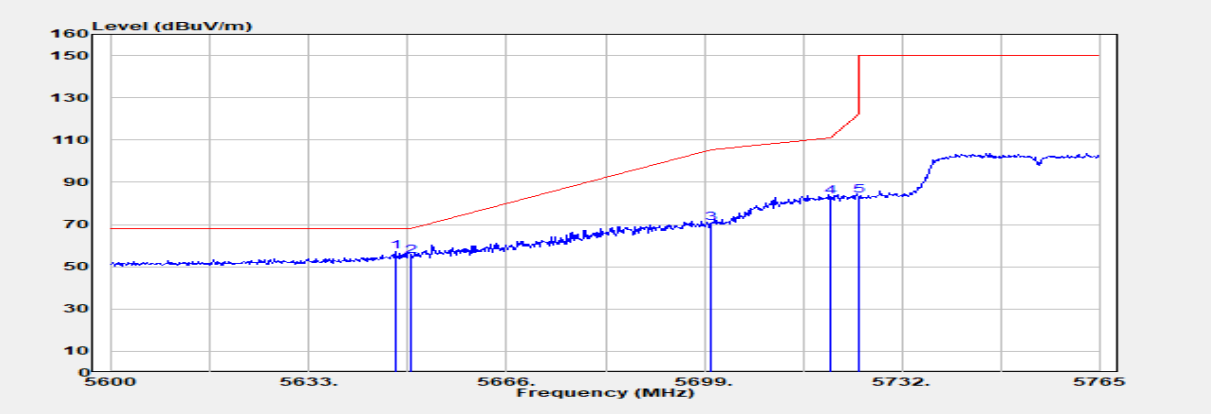
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-16
Test Frequency	:5755 MHz	Temp./Humi.	:23.0℃/50%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	55.73	1.40	57.13	68.20	-11.07
5650.000	Peak	53.81	1.41	55.22	68.20	-12.98
5700.000	Peak	68.69	2.03	70.72	105.20	-34.48
5720.000	Peak	81.07	2.17	83.23	110.80	-27.57
5725.000	Peak	81.63	2.20	83.83	122.20	-38.37

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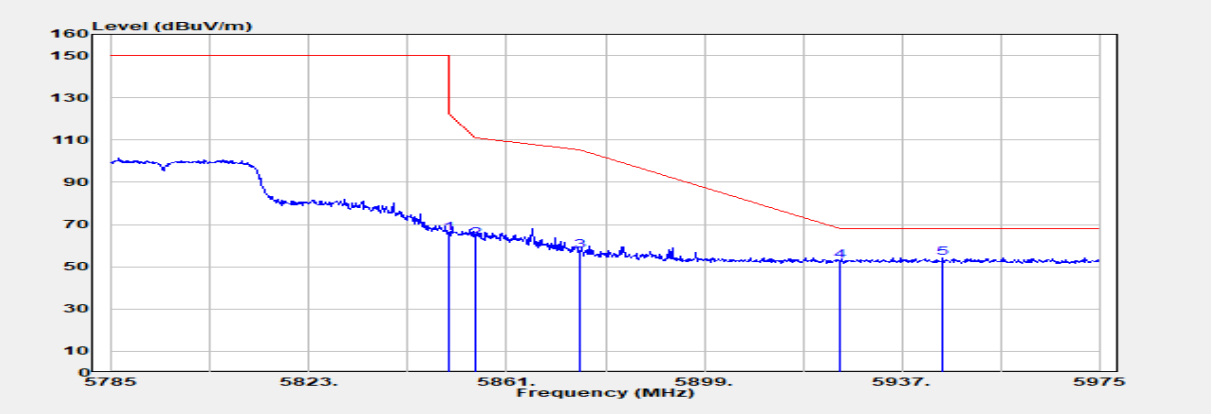
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-19
Test Frequency	:5795 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Alex Li



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	63.56	2.35	65.91	122.20	-56.29
5855.000	Peak	61.12	2.36	63.47	110.80	-47.33
5875.000	Peak	55.16	2.40	57.56	105.20	-47.64
5925.000	Peak	50.15	2.60	52.74	68.20	-15.46
5944.980	Peak	51.61	2.71	54.32	68.20	-13.88

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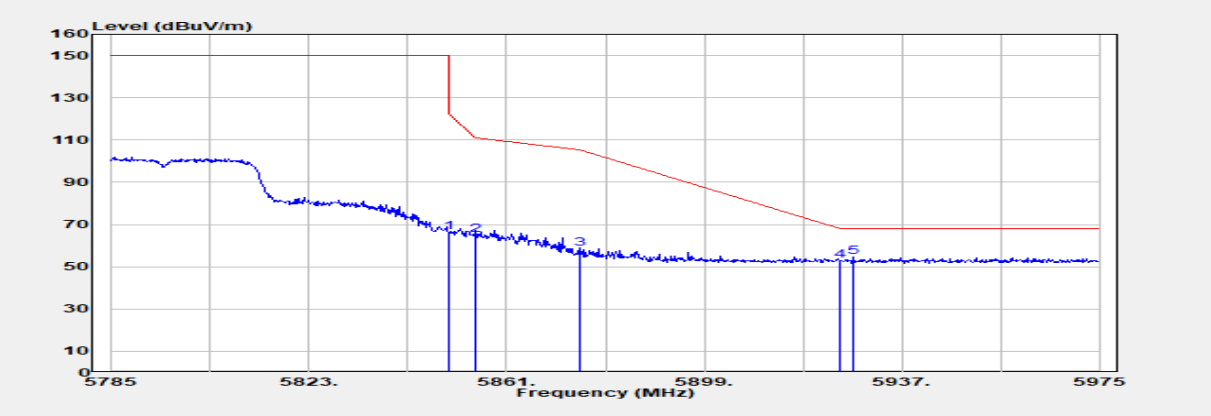
Report Number	:TERF2408002261E2	Test Site	:SAC C
Operation Mode	:802.11n40	Test Date	:2024-08-19
Test Frequency	:5795 MHz	Temp./Humi.	:20.6℃/56%
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Alex Li



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	63.99	2.35	66.33	122.20	-55.87
5855.000	Peak	62.54	2.36	64.89	110.80	-45.91
5875.000	Peak	56.01	2.40	58.41	105.20	-46.79
5925.000	Peak	50.12	2.60	52.72	68.20	-15.49
5927.690	Peak	51.93	2.61	54.54	68.20	-13.66

~ End of Report ~

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