

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: Wireless module installed in resistance cable machine
Applicant: Amp Fit, Inc.
651 N. Broad St. Suite 308, Middletown, Delaware, United States 19709
Manufacturer: Amp Fit, Inc.
651 N. Broad St. Suite 308, Middletown, Delaware, United States 19709
Brand Name: muRata
Model No.: LBEE5QD1ZM
FCC Host Model: amp
Report Number: TERF2504001586E2
FCC ID 2BG7RAMP1
Date of EUT Received: April 30, 2025
Date of Test: May 6, 2025~May 16, 2025
Issue Date: August 7, 2025

Approved By



Aken Huang

We hereby certify that:

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2504001586E2	00	Original	June 24, 2025	Susan Lin	
TERF2504001586E2	01	Update section 3, 8.6.1 and 8.6.2	August 7, 2025	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

EUT Description:	Wireless module installed in resistance cable machine
Brand Name:	muRata
Model No.:	LBEE5QD1ZM
FCC Host Model:	amp
Hardware Version:	N/A
Firmware Version:	1.0
EUT Series No.:	C4410GQB02881
Power Supply:	12Vdc from AC/DC Adapter
Test Software (Name/Version):	Tera Term Version 4.84

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a,11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 72.2 Mbps
	802.11 n_HT40: up to 150 Mbps
	802.11 ac_VHT20: up to 86.7 Mbps
	802.11 ac_VHT40: up to 200 Mbps
	802.11 ac_VHT80: up to 433.3 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
FPC	Cortec Technology Inc.	NB1577-A150BF	5150~5250	4.69

Note: Antenna information is provided by the applicant.

1.4 FCC

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20	5180~5240	4	Avg	16.61 dBm	OFDM
802.11n_HT40/ 802.11ac_VHT40	5190~5230	2	Avg	15.87 dBm	OFDM
802.11ac_VHT80	5210	1	Avg	11.92 dBm	OFDM

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10:2013

1.6 Test Facility

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

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

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

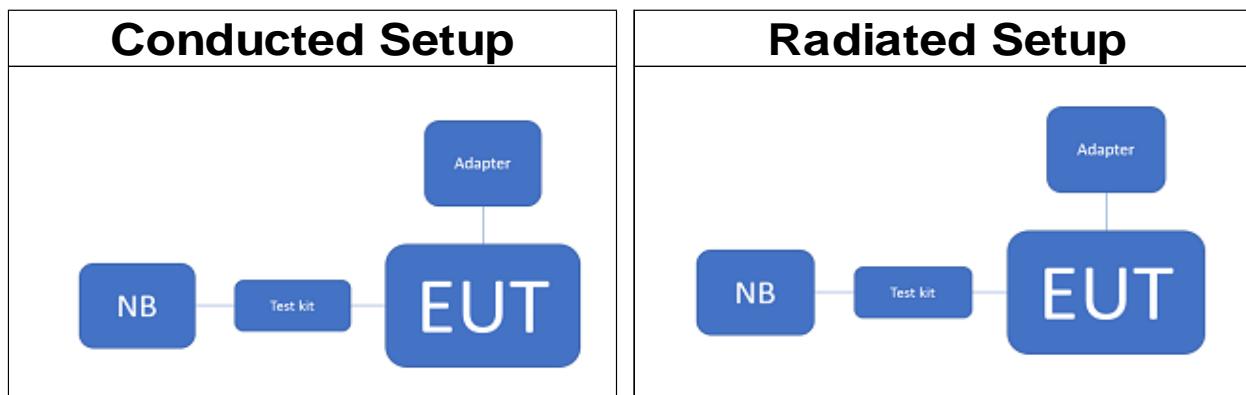
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

2.4.2 For all conducted test items:

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

2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	T14	P0003332	N/A	N/A
Adapter	AMIGO	AMS115-1202000FU	N/A	N/A	N/A
Test Kit	Waveshare	PL2303 USB UART Board	N/A	N/A	N/A

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	L412	S0011357	N/A	N/A
Adapter	AMIGO	AMS115-1202000FU	N/A	N/A	N/A
Test Kit	Waveshare	PL2303 USB UART Board	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

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

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-1 5150 MHz ~ 5250MHz	
20MHz	
CH	Freq. (MHz)
36	5180
40	5200
44	5220
48	5240

40MHz	
CH	Freq. (MHz)
38	5190
46	5230

80MHz	
CH	Freq. (MHz)
42	5210

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4.2 The Worst Test Modes and Channel Details

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

Modulation		Transmission Chain					Single Transmission Spatial		Multiple Transmission Spatial	
V	802.11 a	V	Ch0	Ch1	Ch2	Ch3	V	1TX		1TX
V	802.11 n	V	Ch0	Ch1	Ch2	Ch3	V	1TX		1TX
V	802.11 ac	V	Ch0	Ch1	Ch2	Ch3	V	1TX		1TX
	802.11 ax		Ch0	Ch1	Ch2	Ch3		1TX		1TX
	802.11 be		Ch0	Ch1	Ch2	Ch3		1TX		1TX

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	Ch0
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	Ch0
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	Ch0
802.11ac_VHT80	5210	42	42	OFDM	MCS0	Ch0

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

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
802.11n20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	Ch0
802.11n40	5190~5230	38 to 46	38,46	OFDM	MCS0	Ch0
802.11ac80	5210	42	42	OFDM	MCS0	Ch0

Note:

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

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty		
AC Power Line Conducted Emission	+/-	1.54	dB
Emission Bandwidth	+/-	1.38	Hz
Output Power measurement	+/-	0.97	dB
Peak Power Spectral Density Measurement	+/-	0.61	dB
Frequency Stability	+/-	1.48	Hz
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89	dB
	+/-	4.1	dB
	+/-	3.37	dB
	+/-	3.83	dB
Polarization: Horizontal	+/-	1.89	dB
	+/-	4.1	dB
	+/-	3.37	dB
	+/-	3.83	dB
Radiated Spurious Emission	+/-	2	dB
	+/-	1.59	dB
	+/-	1.71	dB
	+/-	1.64	dB
	+/-	3.84	dB

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 Condcted Measurement

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Marvelous	MVE2213-10	RF04	11/14/2024	11/13/2025
Attenuator	Woken	WATT-218FS-10	RF12	11/14/2024	11/13/2025
DC Block	PASTERNACK	PE8210	RF38	11/14/2024	11/13/2025
Power Meter	Anritsu	ML2496A	2138005	09/25/2024	09/24/2025
Power Sensor	Anritsu	MA2411B	1911395	09/25/2024	09/24/2025
Power Sensor	Anritsu	MA2411B	1911396	09/25/2024	09/24/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	02/12/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

6.2 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber D	N/A	04/30/2025	04/29/2026
Attenuator	Woken	WATT-218FS-10	RF17	11/14/2024	11/13/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/17/2024	12/16/2025
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM-500+SUCOFLEX 104+16+EMC105-SM-SM-11000+EMC106-SM-SM-2300	W22.01+W21.01+150707+MY969/4+16+190825+150702	11/14/2024	11/13/2025
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/30/2024	05/29/2025
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025
Notch Filter	Micro-Tronics	BRC50703-G015	RF204	11/14/2024	11/13/2025
Notch Filter	Micro-Tronics	BRC50704-G016	RF205	11/14/2024	11/13/2025
Notch Filter	Micro-Tronics	BRC50705-G021	RF206	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/14/2024	11/13/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	10/16/2024	10/15/2025
H-Loop Near Field Antenna	LANGER EMV-Technik	LF-R 400	02-1597	N.C.R	N.C.R
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 FCC

Band	EUT CATEGORY	e-CRF Title 47 §15.407			
		Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1	Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
	Outdoor AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
	Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	Other	1 Watt(30dBm)	Not required	Not required	6dBi
	Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4	Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
	Indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
	Subordinate device	Not required	36dBm	Not required	Not required
1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna. 2. For the 10 log B, B is the 26 dB emission bandwidth.					

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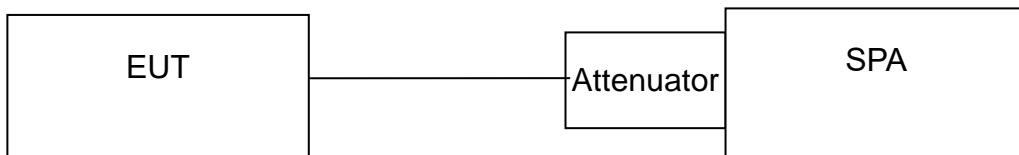
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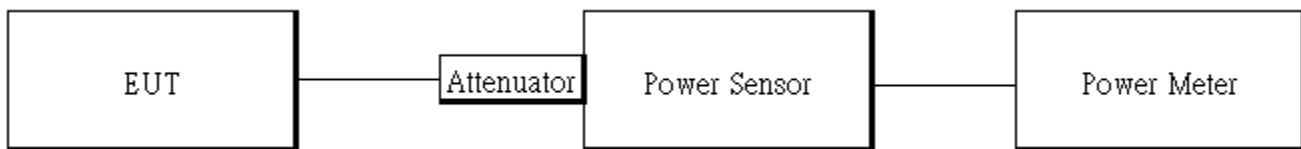
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7.2 Test Setup

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. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
4. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

Note:

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

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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	100.00	0.00	0.00	0.01
802.11n_20	100.00	0.00	0.00	0.01
802.11ac_20	100.00	0.00	0.00	0.01
802.11n_40	100.00	0.00	0.00	0.01
802.11ac_40	100.00	0.00	0.00	0.01
802.11ac_80	100.00	0.00	0.00	0.01

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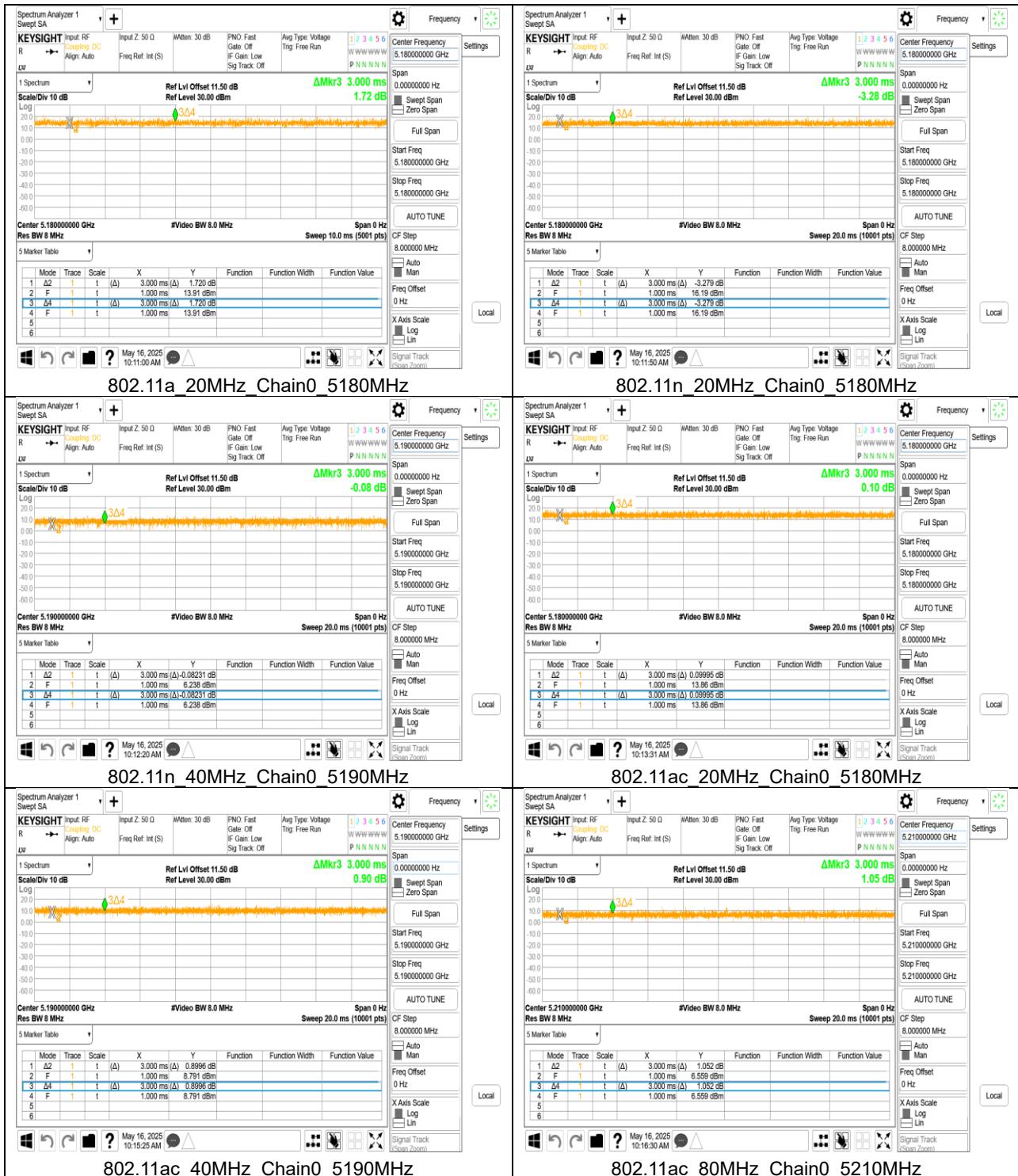
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7.5 Output Power Measurement Result

7.5.1 FCC Output power

Note: For all straddle channels, full bandwidth power is reported in the UNII Band 2C because the combined UNII Band 2C and UNII Band 3 power already passed the worst-case UNII Band 2C limit.

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	16	20.184	13.05	23.98	PASS
44	5220	6	20	45.499	16.58	23.98	PASS
48	5240	6	20	45.814	16.61	23.98	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	16	20.989	13.22	23.98	PASS
44	5220	MCS0	17	25.882	14.13	23.98	PASS
48	5240	MCS0	18	32.285	15.09	23.98	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	15	16.520	12.18	23.98	PASS
46	5230	MCS0	19	38.637	15.87	23.98	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	16	20.845	13.19	23.98	PASS
44	5220	MCS0	17	25.586	14.08	23.98	PASS
48	5240	MCS0	18	32.063	15.06	23.98	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	15	16.331	12.13	23.98	PASS
46	5230	MCS0	19	38.371	15.84	23.98	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	15	15.560	11.92	23.98	PASS

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8 UNDESIRABLE RADIATED EMISSION MEASUREMENT

8.1 Standard Applicable

$EIRP = ((E^2 d)^{1/2}) / 30$, where E is the field strength in V/m , d is the measurement distance (3m), $EIRP$ is the equivalent isotropically radiated power in Watts.

8.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dB μ V/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	$f \leq 5150$ $f \geq 5350$	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725	$f \leq 5470$ $f \geq 5725$		
15.407(b)(4)(i) RSS-247 §6.2.4.3	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

8.1.2 Spurious Emission

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

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

Note:

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

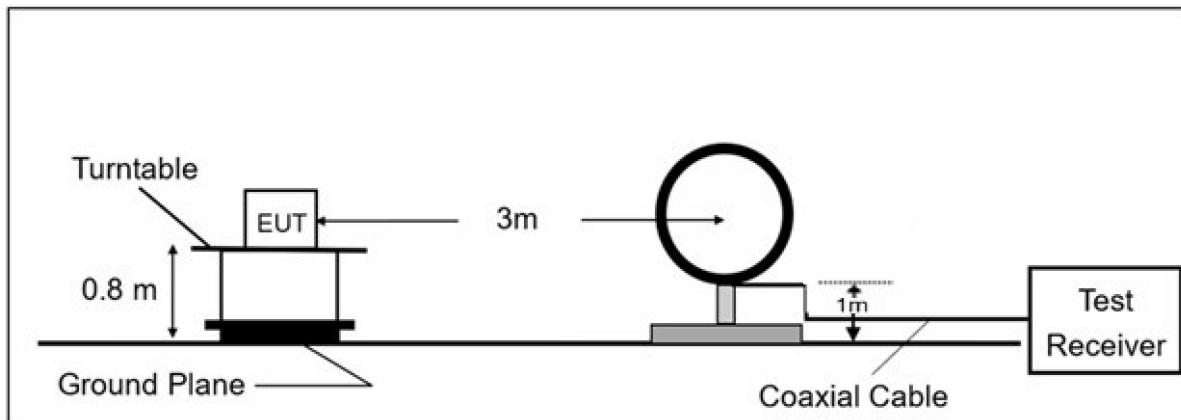
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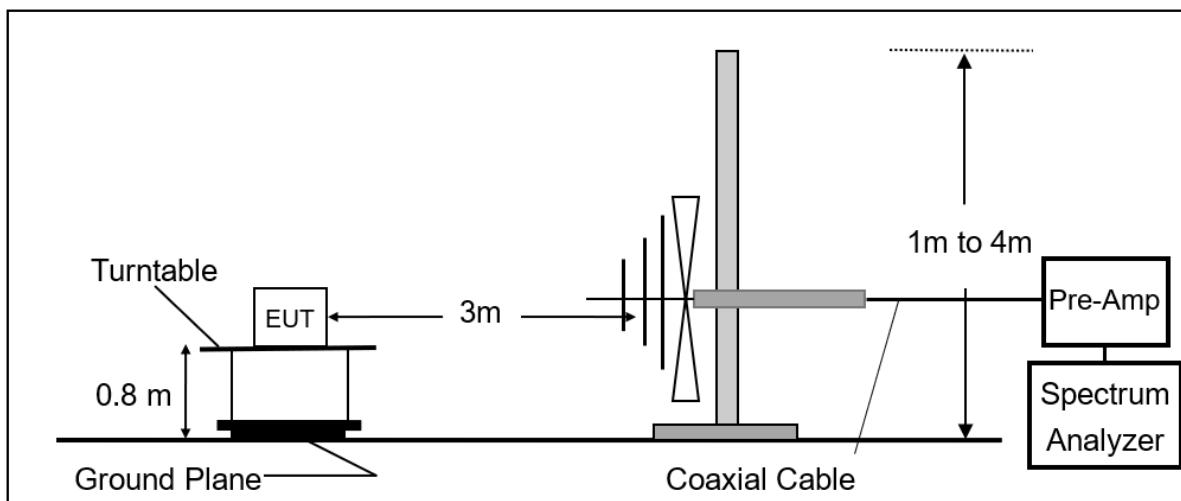
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8.2 Test Setup

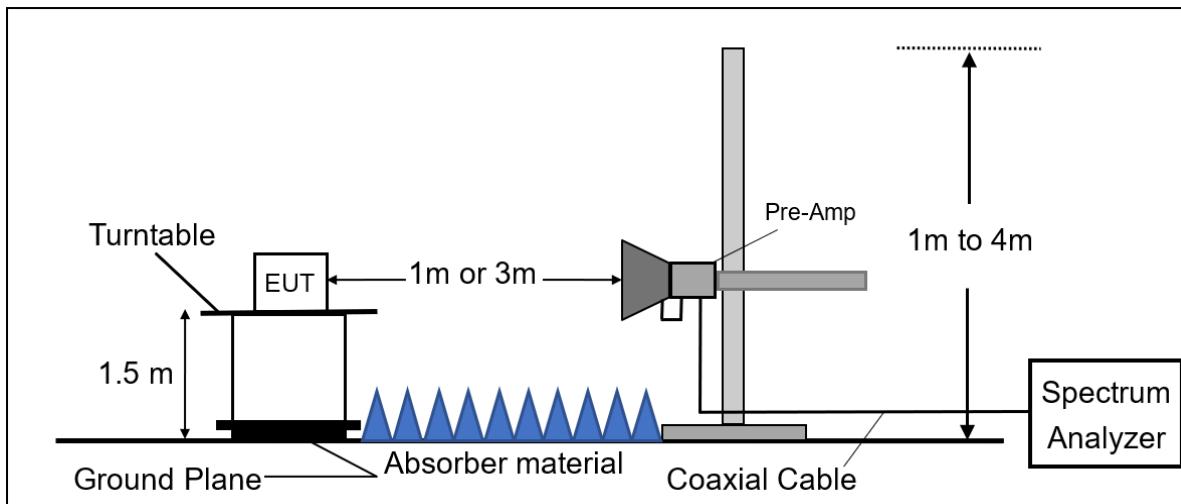
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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8.3 Measurement Procedure

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

8.4 Field Strength Calculation

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

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

Where FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

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Factor(dB) = Antenna Factor(dB/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) was not reported.

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

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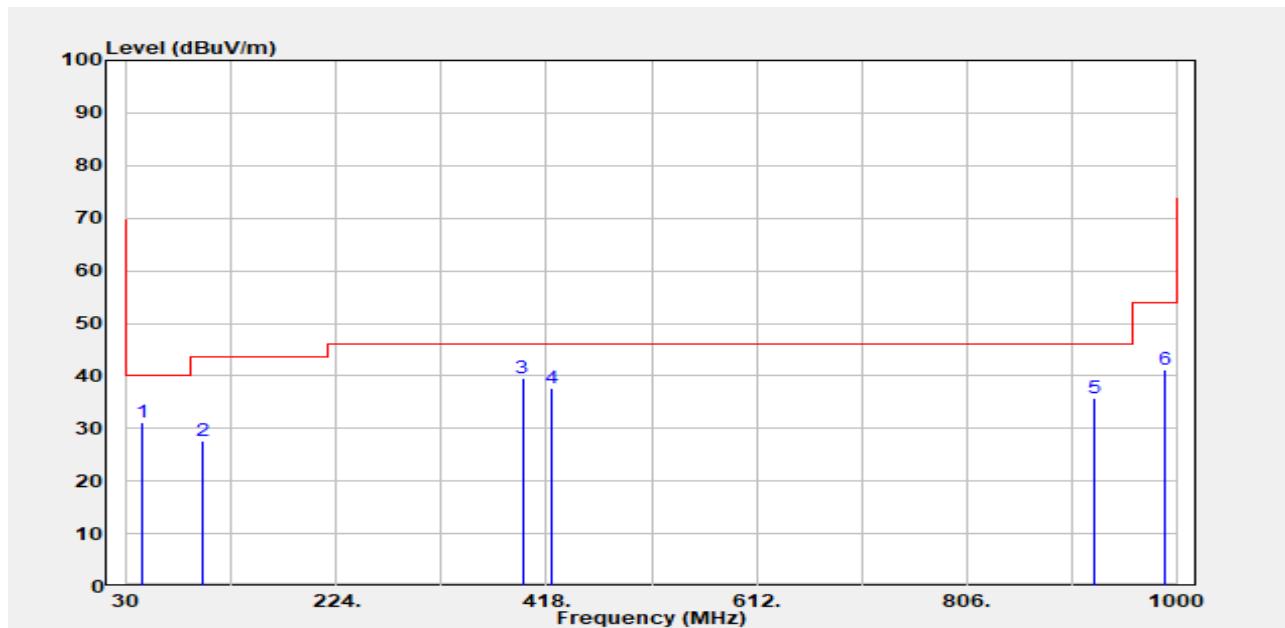
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8.6 Radiated Spurious Emission Measurement Result

8.6.1 Spurious Emission

Report Number	:TERF2504001586E2	Test Site	:SAC D
Operation Mode	:802.11a	Test Date	:2025-05-14
Test Frequency	:5220 MHz	Temp./Humi.	:21.6°C/67%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



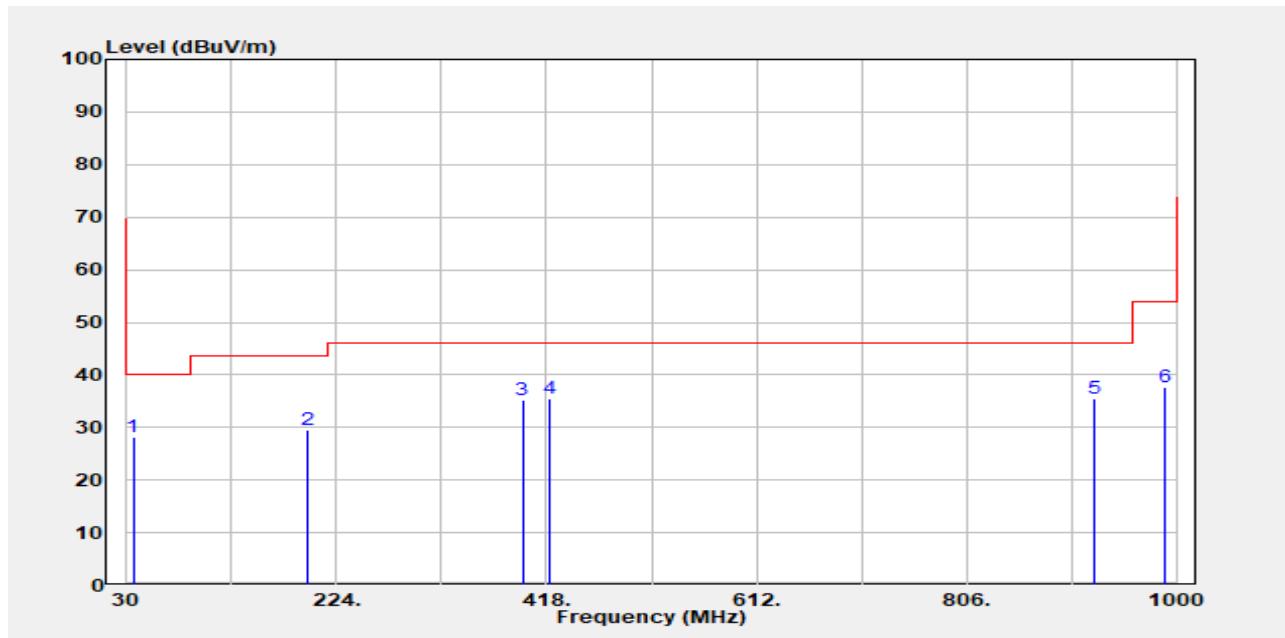
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
43.58	Peak	49.00	-17.71	31.29	40.00	-8.71
99.84	Peak	49.51	-21.88	27.63	43.50	-15.87
395.69	Peak	53.08	-13.57	39.51	46.00	-6.49
422.85	Peak	50.67	-12.94	37.73	46.00	-8.27
924.34	Peak	40.63	-4.84	35.79	46.00	-10.21
990.30	QP	45.30	-4.12	41.18	54.00	-12.82

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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11a Test Date :2025-05-14
Test Frequency :5220 MHz Temp./Humi. :21.6°C/67%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
35.82	Peak	47.02	-18.92	28.10	40.00	-11.90
197.81	Peak	49.16	-19.63	29.53	43.50	-13.97
395.69	Peak	48.67	-13.57	35.10	46.00	-10.90
420.91	Peak	48.54	-13.01	35.53	46.00	-10.47
924.34	Peak	40.34	-4.84	35.50	46.00	-10.50
990.30	QP	41.90	-4.12	37.78	54.00	-16.22

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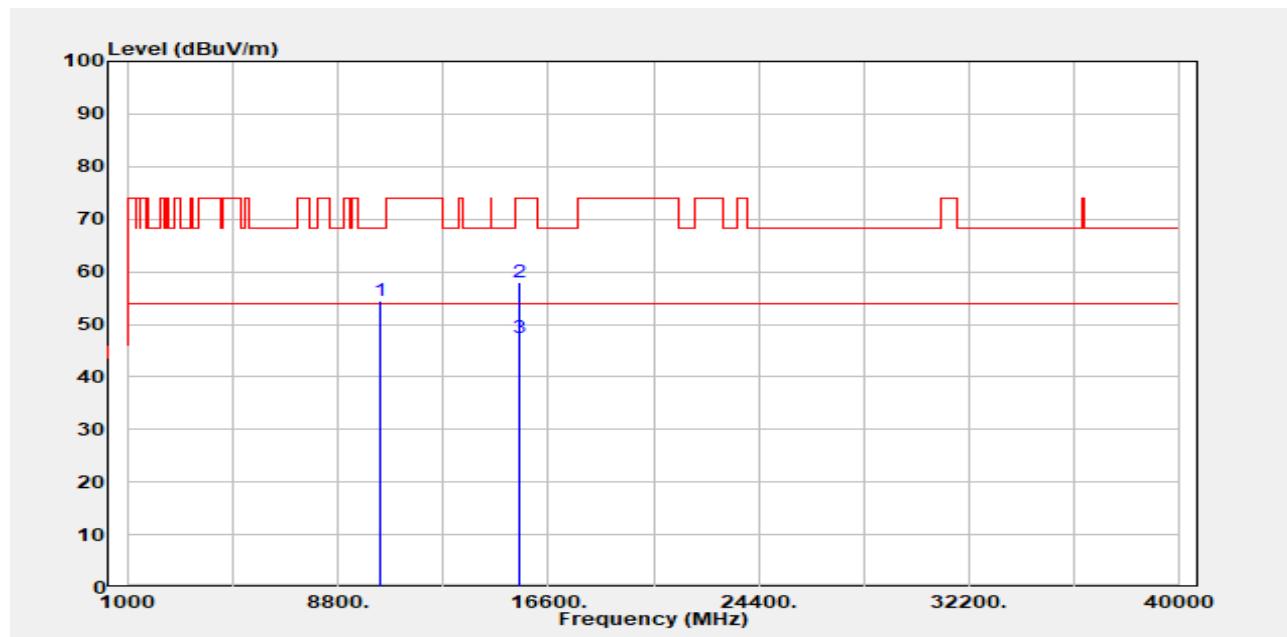
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Report Number	:TERF2504001586E2	Test Site	:SAC D
Operation Mode	:802.11a	Test Date	:2025-05-14
Test Frequency	:5180 MHz	Temp./Humi.	:22.3°C/54%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	32.14	22.39	54.53	68.20	-13.67
15540.00	Peak	32.90	25.06	57.96	74.00	-16.04
15540.00	Average	22.30	25.06	47.36	54.00	-6.64

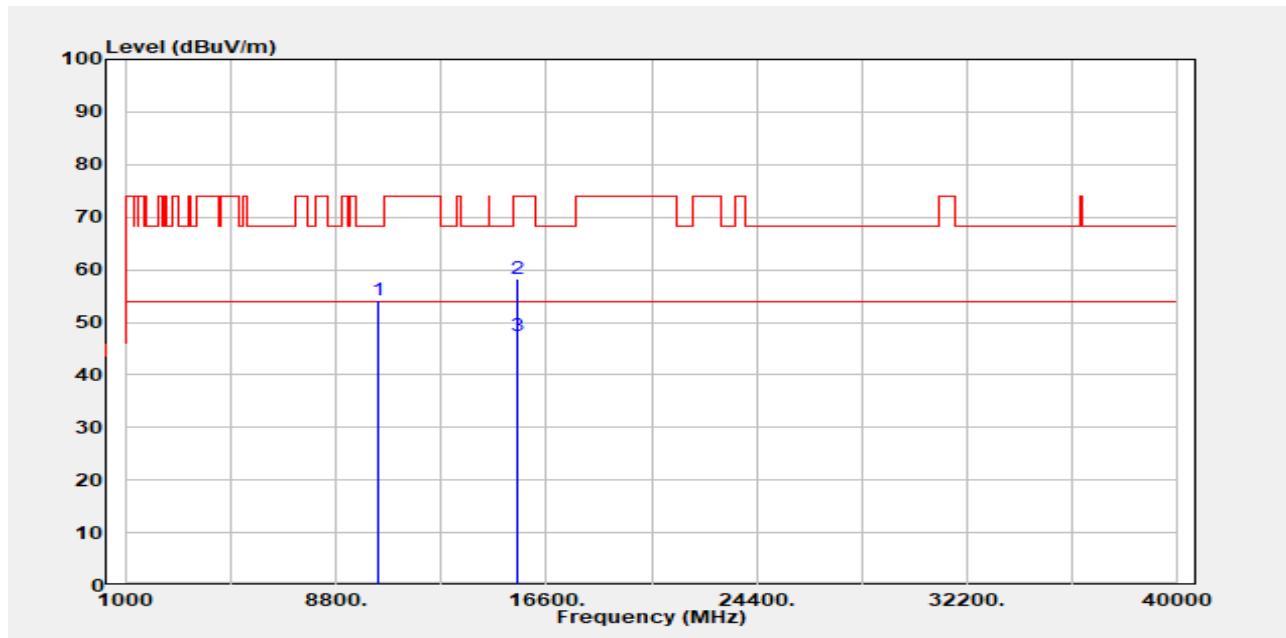
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11a Test Date :2025-05-14
Test Frequency :5180 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	31.84	22.39	54.23	68.20	-13.97
15540.00	Peak	33.28	25.06	58.34	74.00	-15.66
15540.00	Average	22.23	25.06	47.29	54.00	-6.71

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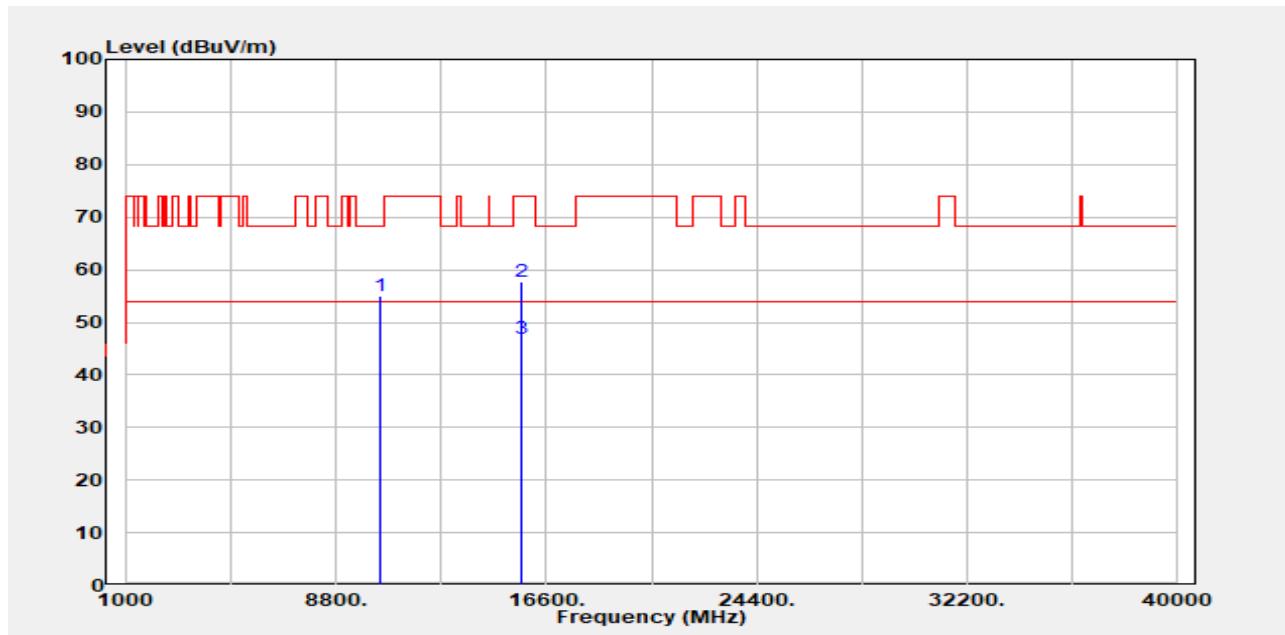
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11a Test Date :2025-05-14
Test Frequency :5220 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	32.44	22.70	55.14	68.20	-13.06
15660.00	Peak	33.10	24.60	57.70	74.00	-16.30
15660.00	Average	22.26	24.60	46.86	54.00	-7.14

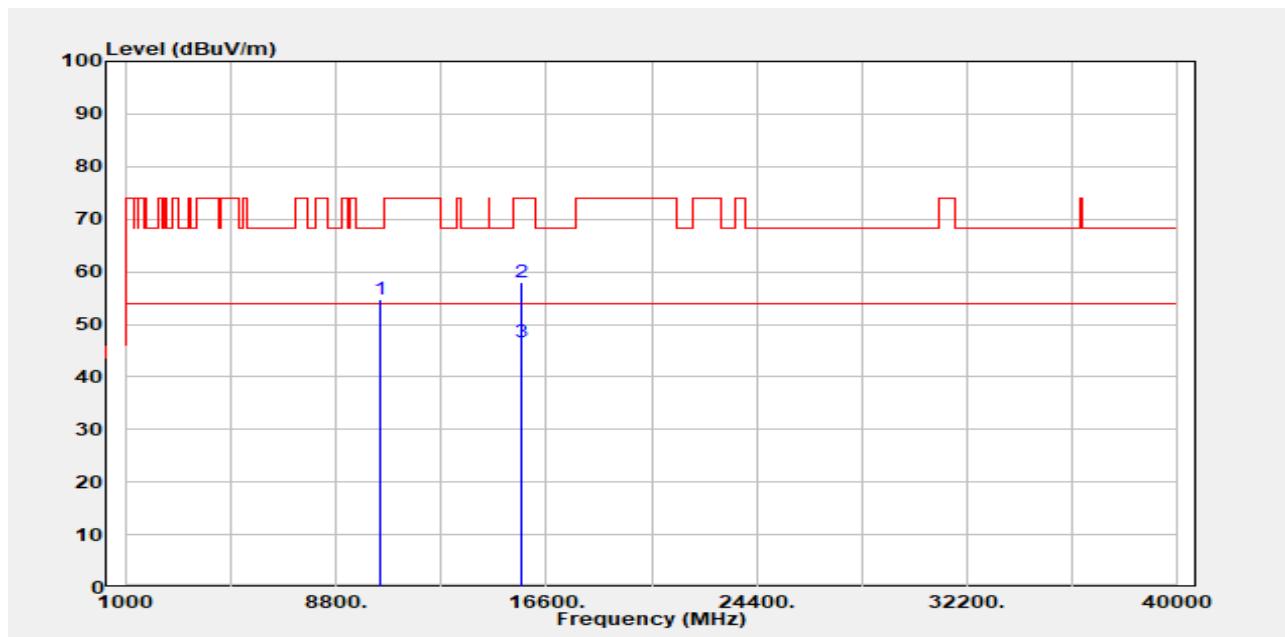
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11a Test Date :2025-05-14
Test Frequency :5220 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	31.99	22.70	54.69	68.20	-13.51
15660.00	Peak	33.35	24.60	57.95	74.00	-16.05
15660.00	Average	22.14	24.60	46.74	54.00	-7.26

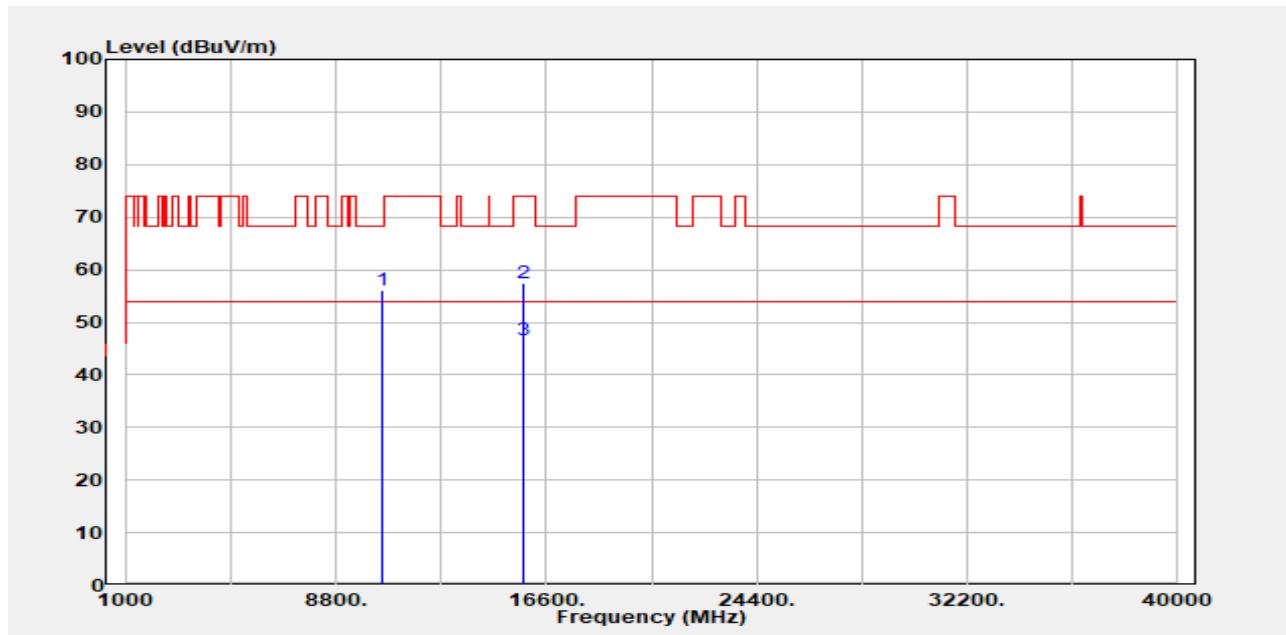
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11a Test Date :2025-05-14
Test Frequency :5240 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	33.40	22.75	56.15	68.20	-12.05
15720.00	Peak	32.61	24.73	57.34	74.00	-16.66
15720.00	Average	22.01	24.73	46.74	54.00	-7.26

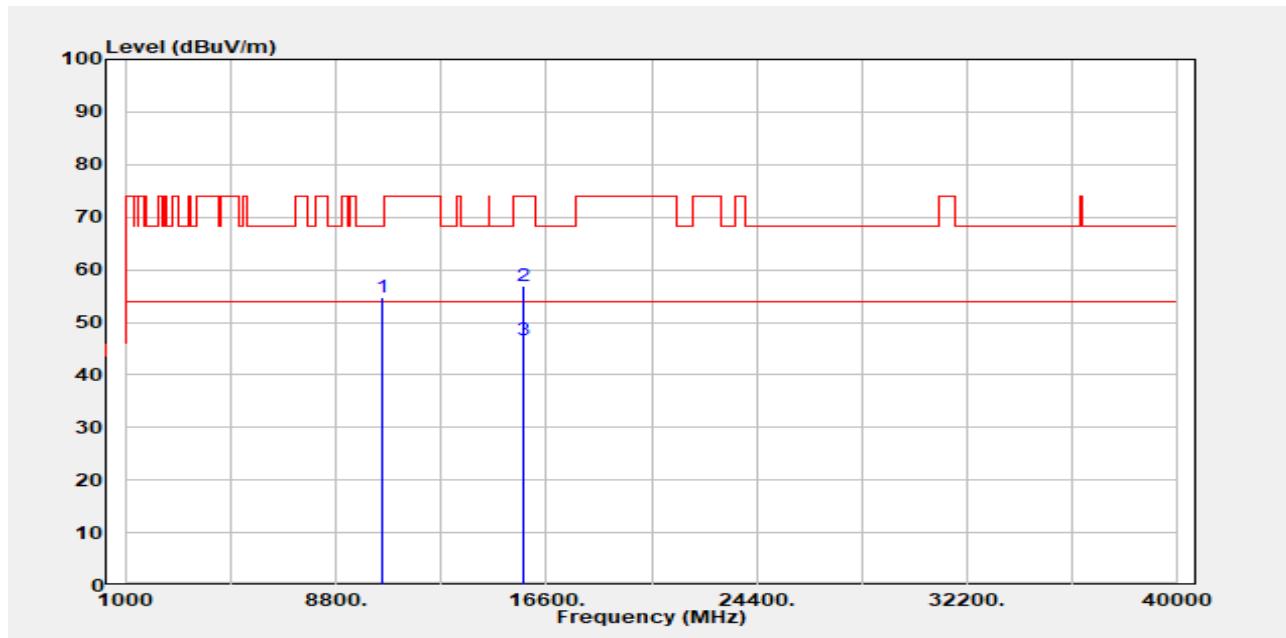
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11a Test Date :2025-05-14
Test Frequency :5240 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	31.92	22.75	54.67	68.20	-13.53
15720.00	Peak	32.22	24.73	56.95	74.00	-17.05
15720.00	Average	21.96	24.73	46.69	54.00	-7.31

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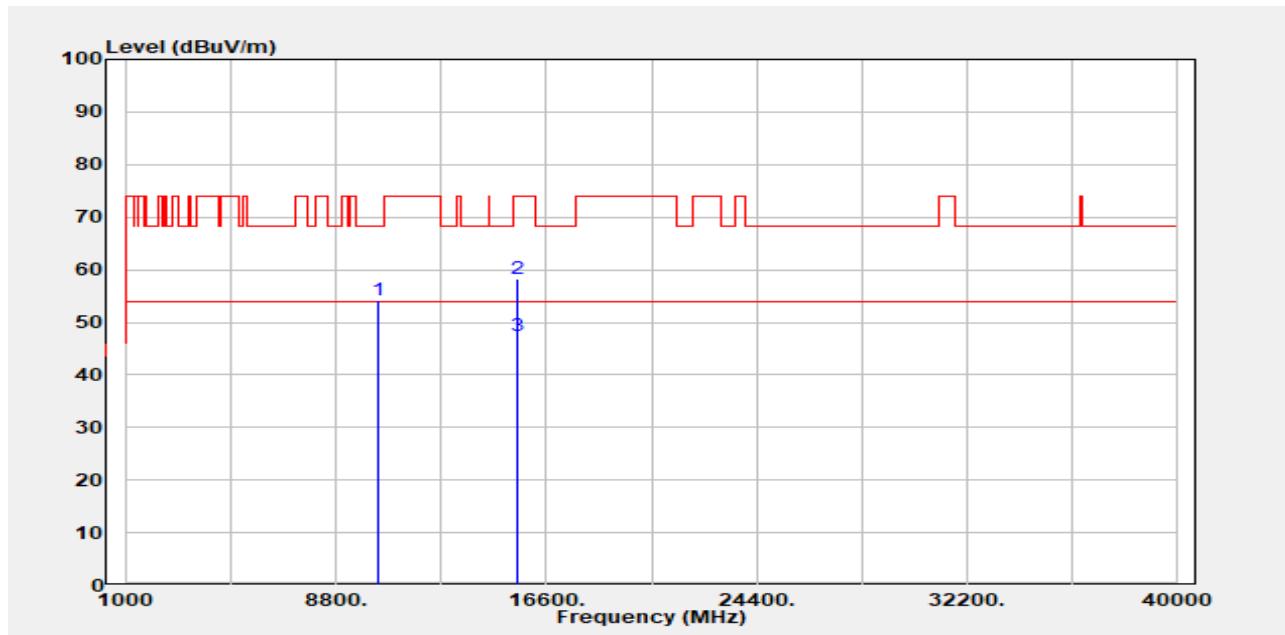
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11n20 Test Date :2025-05-14
Test Frequency :5180 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	31.85	22.39	54.24	68.20	-13.96
15540.00	Peak	33.29	25.06	58.35	74.00	-15.65
15540.00	Average	22.24	25.06	47.30	54.00	-6.70

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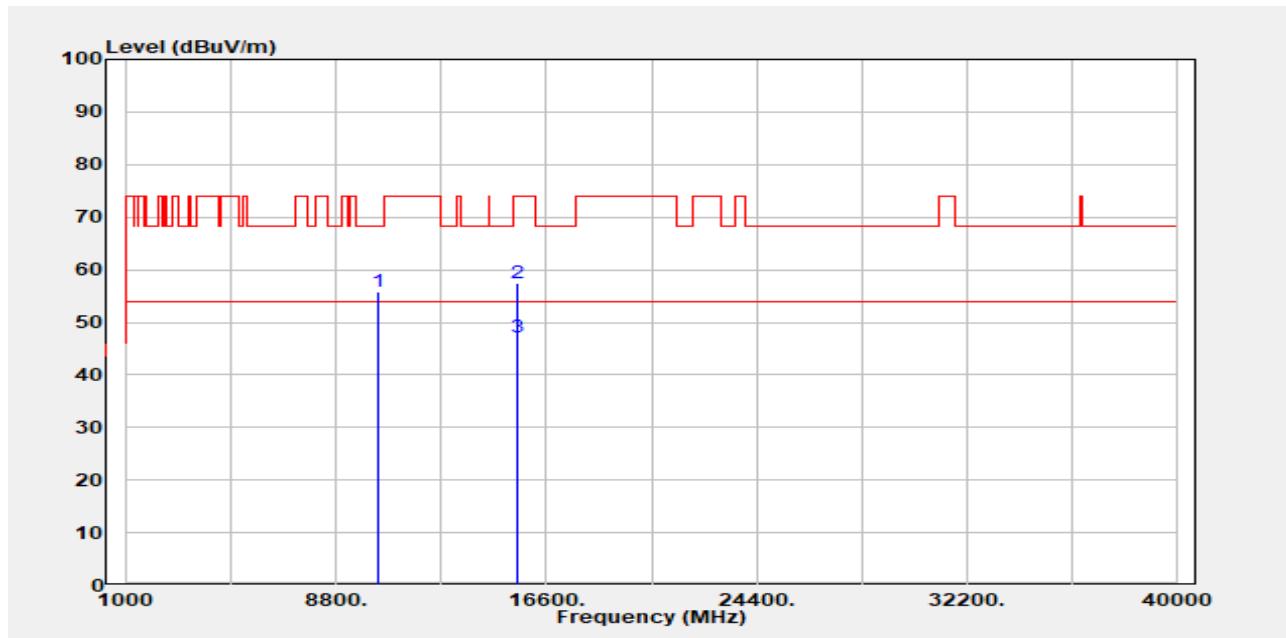
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11n20 Test Date :2025-05-14
Test Frequency :5180 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	33.31	22.39	55.70	68.20	-12.50
15540.00	Peak	32.40	25.06	57.46	74.00	-16.54
15540.00	Average	22.23	25.06	47.29	54.00	-6.71

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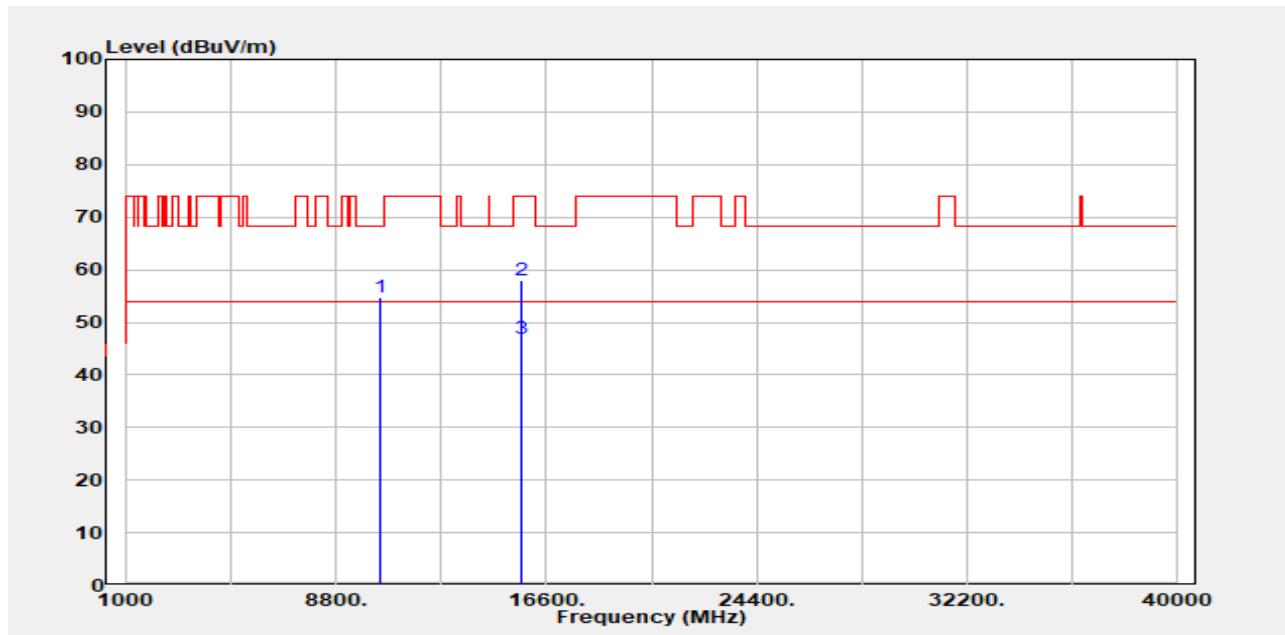
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11n20 Test Date :2025-05-14
Test Frequency :5220 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	32.07	22.70	54.77	68.20	-13.43
15660.00	Peak	33.53	24.60	58.13	74.00	-15.87
15660.00	Average	22.26	24.60	46.86	54.00	-7.14

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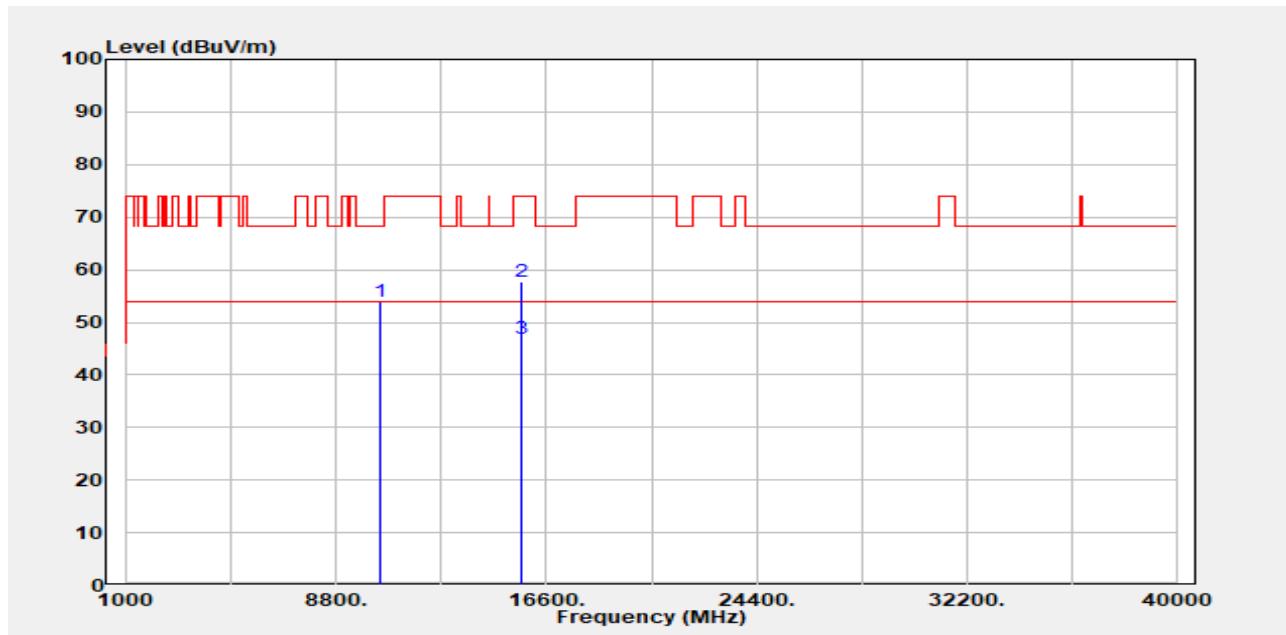
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11n20 Test Date :2025-05-14
Test Frequency :5220 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	31.34	22.70	54.04	68.20	-14.16
15660.00	Peak	32.99	24.60	57.59	74.00	-16.41
15660.00	Average	22.35	24.60	46.95	54.00	-7.05

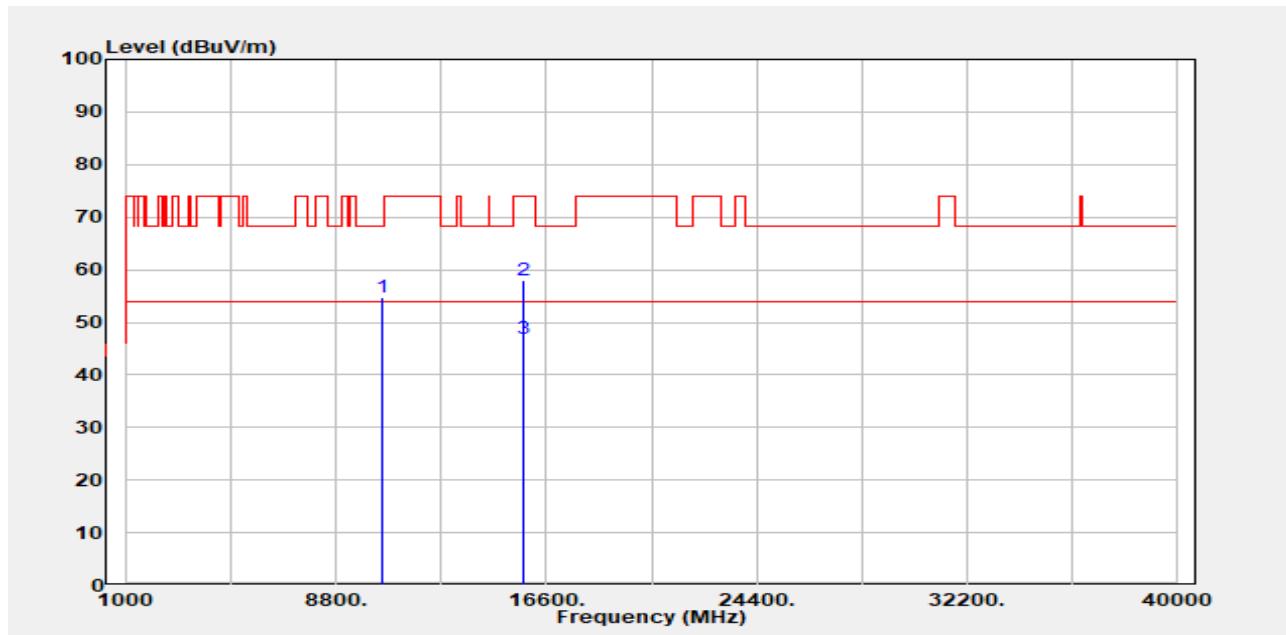
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Report Number	:TERF2504001586E2	Test Site	:SAC D
Operation Mode	:802.11n20	Test Date	:2025-05-14
Test Frequency	:5240 MHz	Temp./Humi.	:22.3°C/54%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	31.90	22.75	54.65	68.20	-13.55
15720.00	Peak	33.19	24.73	57.92	74.00	-16.08
15720.00	Average	22.05	24.73	46.78	54.00	-7.22

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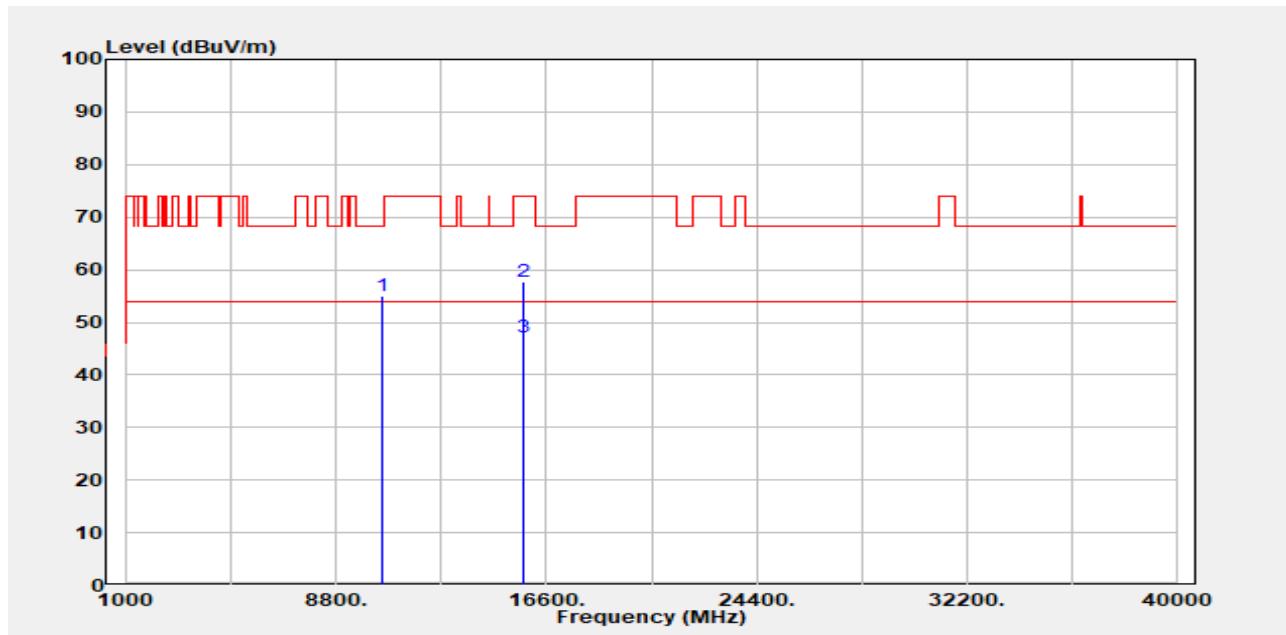
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11n20 Test Date :2025-05-14
Test Frequency :5240 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	32.38	22.75	55.13	68.20	-13.07
15720.00	Peak	33.05	24.73	57.78	74.00	-16.22
15720.00	Average	22.37	24.73	47.10	54.00	-6.90

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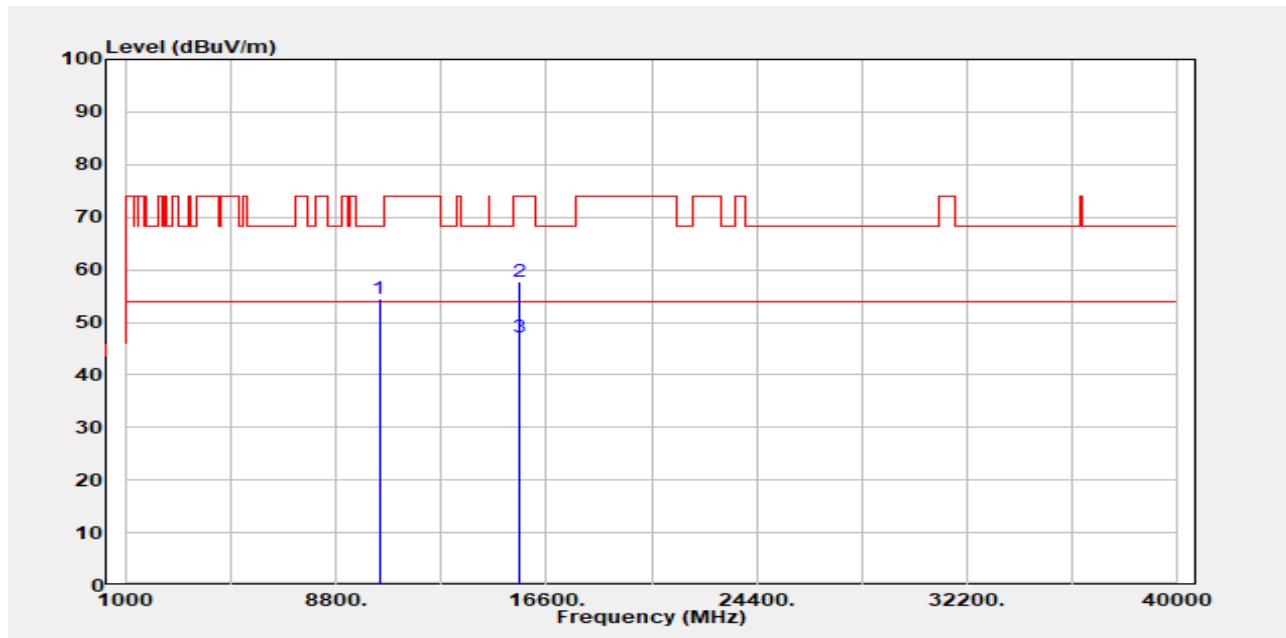
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11n40 Test Date :2025-05-14
Test Frequency :5190 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	Peak	32.06	22.52	54.58	68.20	-13.62
15570.00	Peak	32.79	24.99	57.78	74.00	-16.22
15570.00	Average	22.28	24.99	47.27	54.00	-6.73

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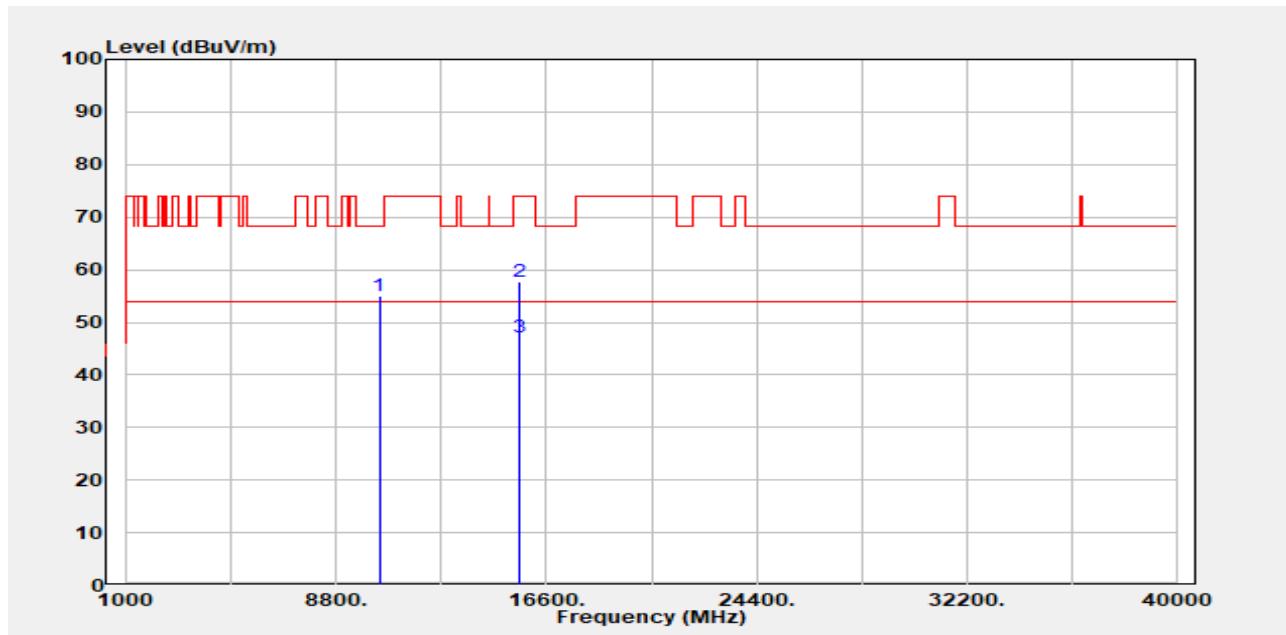
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11n40 Test Date :2025-05-14
Test Frequency :5190 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	Peak	32.48	22.52	55.00	68.20	-13.20
15570.00	Peak	32.72	24.99	57.71	74.00	-16.29
15570.00	Average	22.25	24.99	47.24	54.00	-6.76

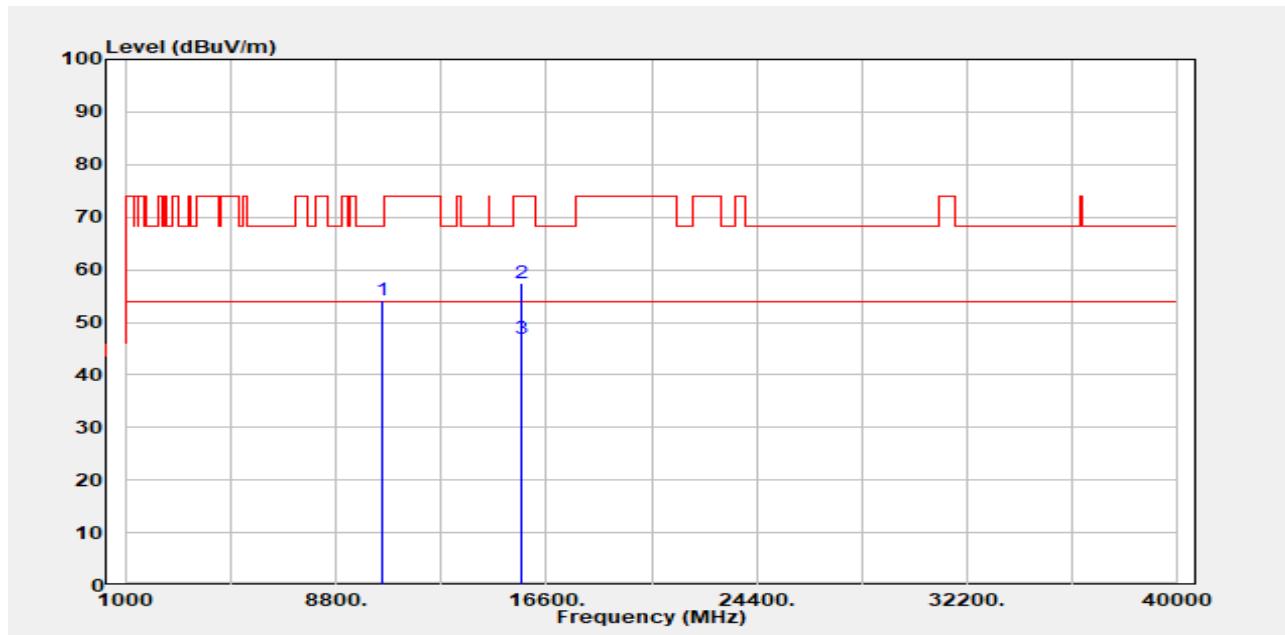
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Report Number	:TERF2504001586E2	Test Site	:SAC D
Operation Mode	:802.11n40	Test Date	:2025-05-14
Test Frequency	:5230 MHz	Temp./Humi.	:22.3°C/54%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	Peak	31.57	22.73	54.30	68.20	-13.90
15690.00	Peak	32.91	24.65	57.56	74.00	-16.44
15690.00	Average	22.11	24.65	46.76	54.00	-7.24

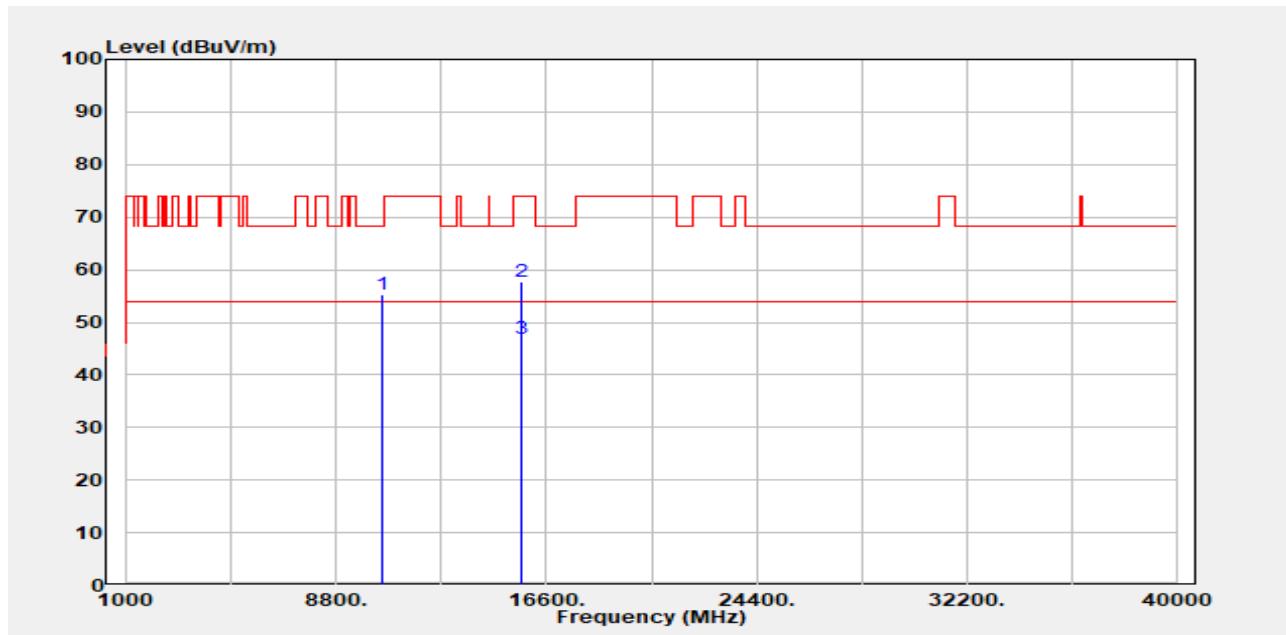
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11n40 Test Date :2025-05-14
Test Frequency :5230 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	Peak	32.62	22.73	55.35	68.20	-12.85
15690.00	Peak	33.06	24.65	57.71	74.00	-16.29
15690.00	Average	22.14	24.65	46.79	54.00	-7.21

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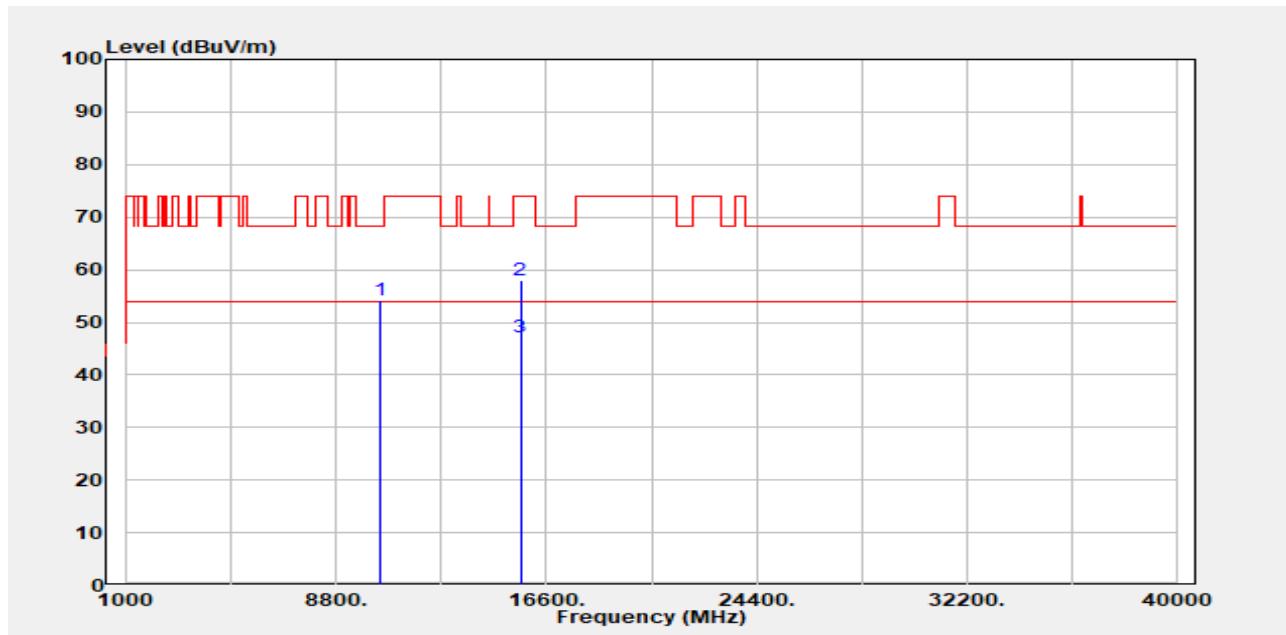
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11ac80 Test Date :2025-05-14
Test Frequency :5210 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	31.55	22.68	54.23	68.20	-13.97
15630.00	Peak	33.29	24.70	57.99	74.00	-16.01
15630.00	Average	22.34	24.70	47.04	54.00	-6.96

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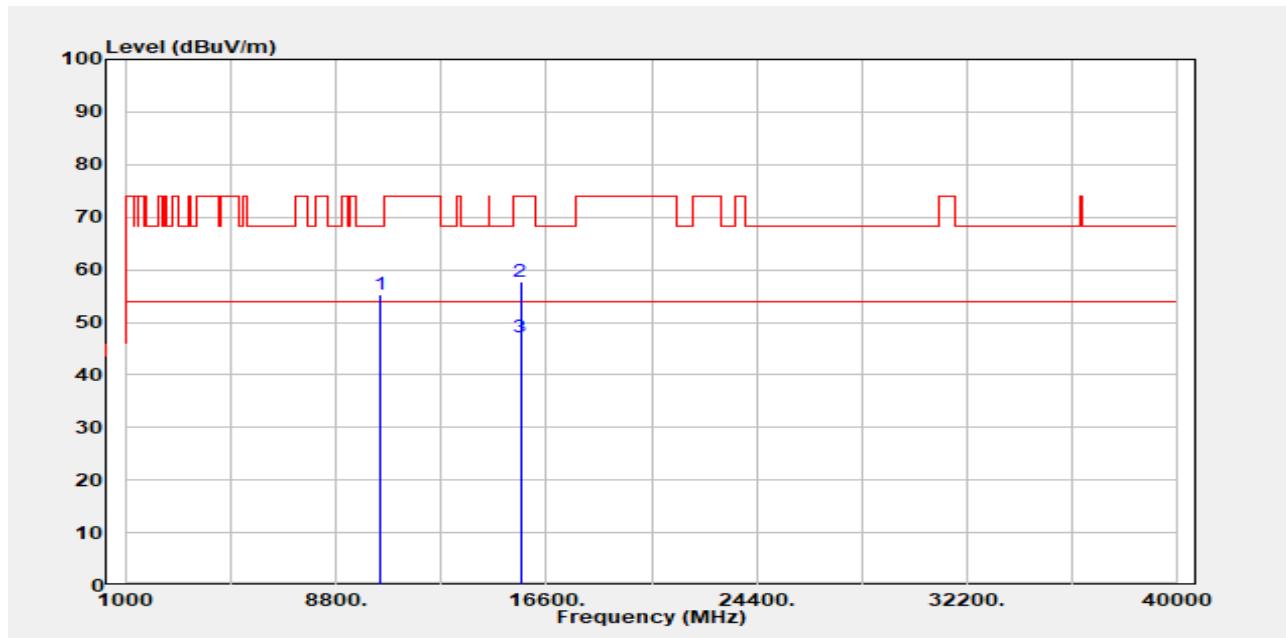
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11ac80 Test Date :2025-05-14
Test Frequency :5210 MHz Temp./Humi. :22.3°C/54%
Test Mode :Tx Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	32.70	22.68	55.38	68.20	-12.82
15630.00	Peak	33.08	24.70	57.78	74.00	-16.22
15630.00	Average	22.47	24.70	47.17	54.00	-6.83

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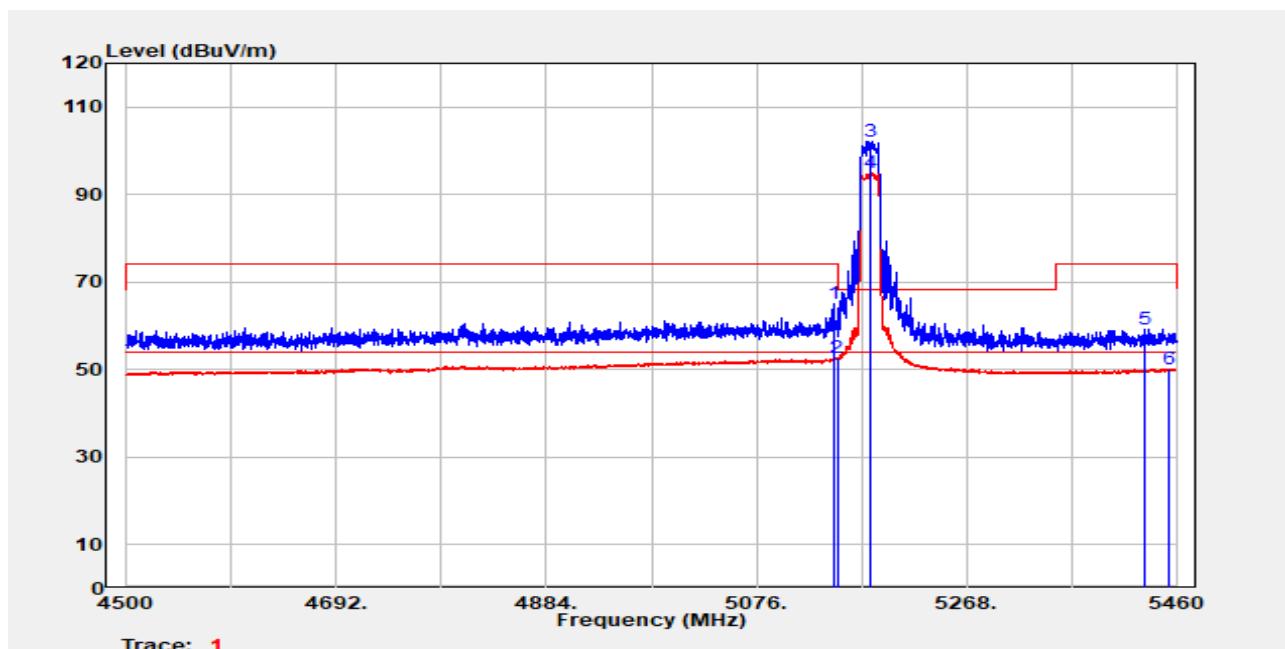
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8.6.2 Band edge falling to restricted band

Report Number	:TERF2504001586E2	Test Site	:SAC D
Operation Mode	:802.11a	Test Date	:2025-05-13
Test Frequency	:5180 MHz	Temp./Humi.	:20.2°C/55%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



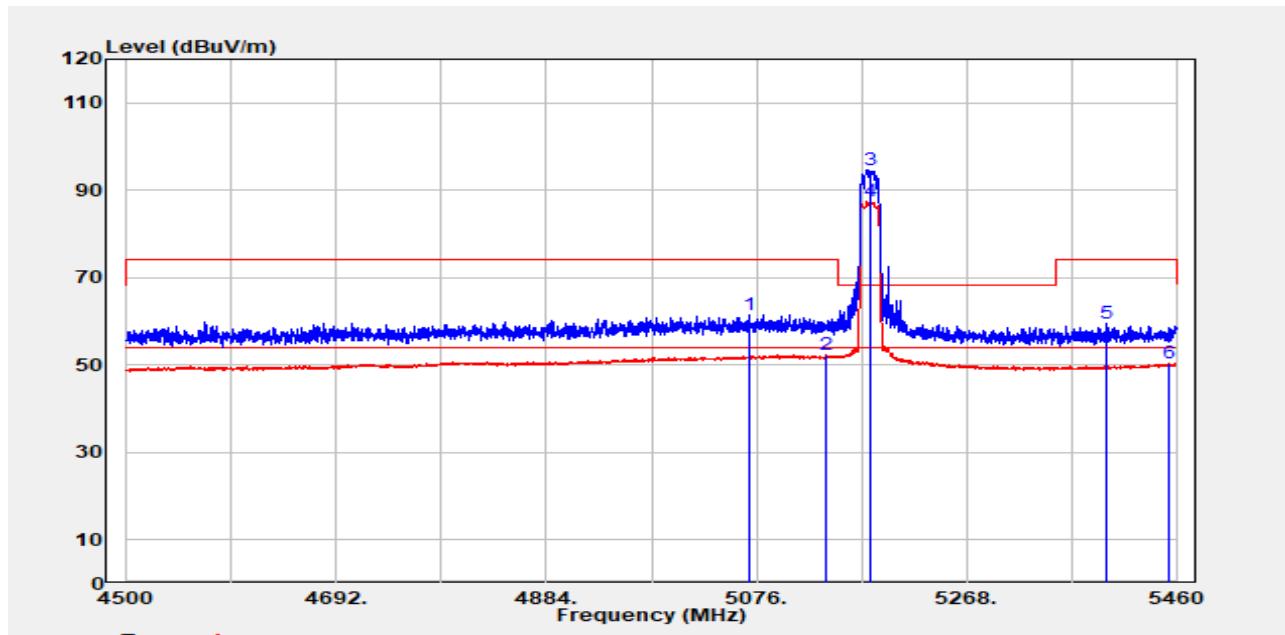
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5146.48	Peak	54.36	10.79	65.15	74.00	-8.85
5149.84	Average	42.00	10.80	52.80	54.00	-1.20
5180.00	Peak	91.48	10.64	102.12	-	-
5180.00	Average	84.22	10.64	94.86	-	-
5431.67	Peak	48.88	10.41	59.29	74.00	-14.71
5453.52	Average	39.62	10.48	50.10	54.00	-3.90

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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11a Test Date :2025-05-13
Test Frequency :5180 MHz Temp./Humi. :20.2°C/55%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5069.66	Peak	51.15	10.41	61.56	74.00	-12.44
5140.00	Average	41.47	10.77	52.24	54.00	-1.76
5180.00	Peak	84.04	10.64	94.68	-	-
5180.00	Average	76.68	10.64	87.32	-	-
5396.38	Peak	49.06	10.33	59.39	74.00	-14.61
5453.76	Average	39.76	10.49	50.25	54.00	-3.75

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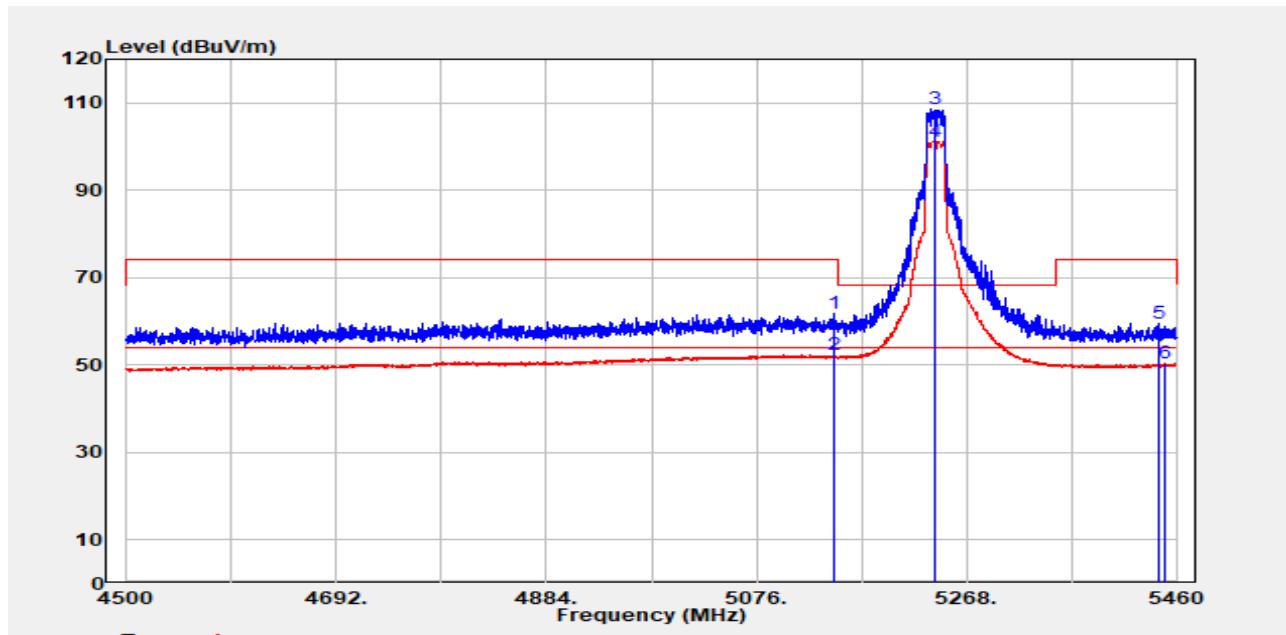
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11a Test Date :2025-05-13
Test Frequency :5240 MHz Temp./Humi. :20.2°C/55%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



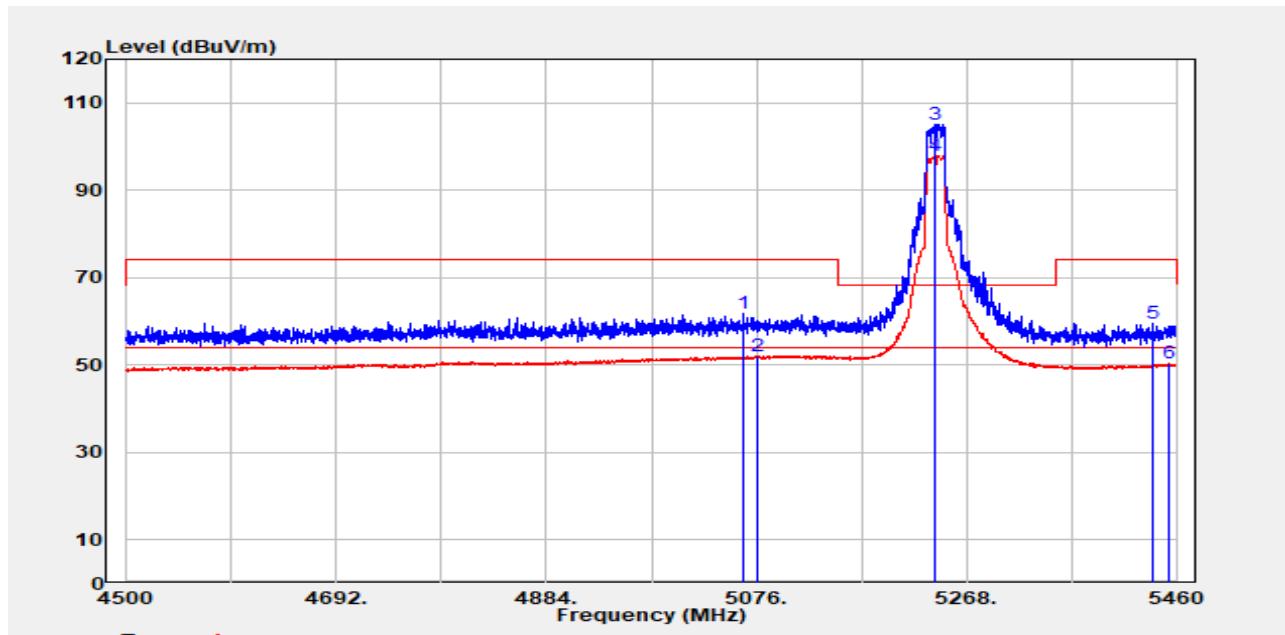
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5146.48	Peak	51.09	10.79	61.88	74.00	-12.12
5146.72	Average	41.49	10.79	52.28	54.00	-1.72
5240.00	Peak	98.38	10.19	108.57	-	-
5240.00	Average	91.10	10.19	101.29	-	-
5443.92	Peak	49.22	10.45	59.67	74.00	-14.33
5450.16	Average	39.87	10.47	50.34	54.00	-3.66

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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11a Test Date :2025-05-13
Test Frequency :5240 MHz Temp./Humi. :20.2°C/55%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



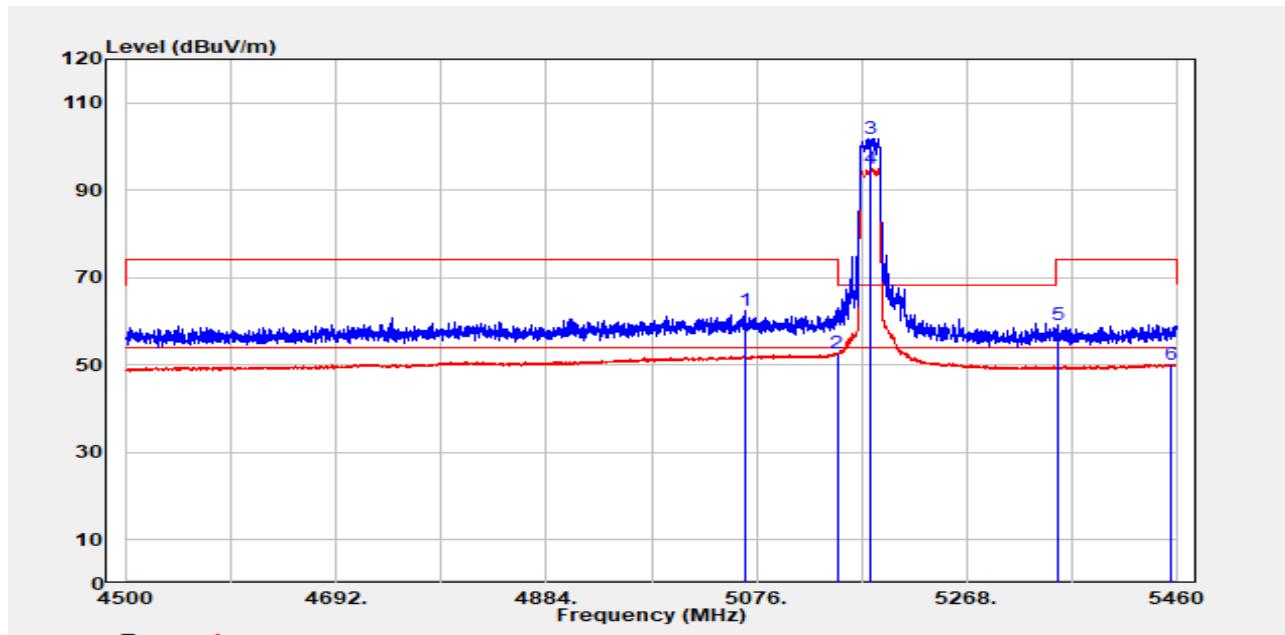
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5063.66	Peak	51.53	10.36	61.89	74.00	-12.11
5076.62	Average	41.70	10.47	52.17	54.00	-1.83
5240.00	Peak	94.85	10.19	105.04	-	-
5240.00	Average	87.85	10.19	98.04	-	-
5438.40	Peak	49.05	10.43	59.48	74.00	-14.52
5454.24	Average	39.81	10.49	50.30	54.00	-3.70

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Report Number :TERF2504001586E2 Test Site :SAC D
 Operation Mode :802.11n20 Test Date :2025-05-13
 Test Frequency :5180 MHz Temp./Humi. :20.2°C/55%
 Test Mode :Bandedge Antenna Pol. :Vertical
 EUT Pol :E2 Plane Engineer :Temo Chen



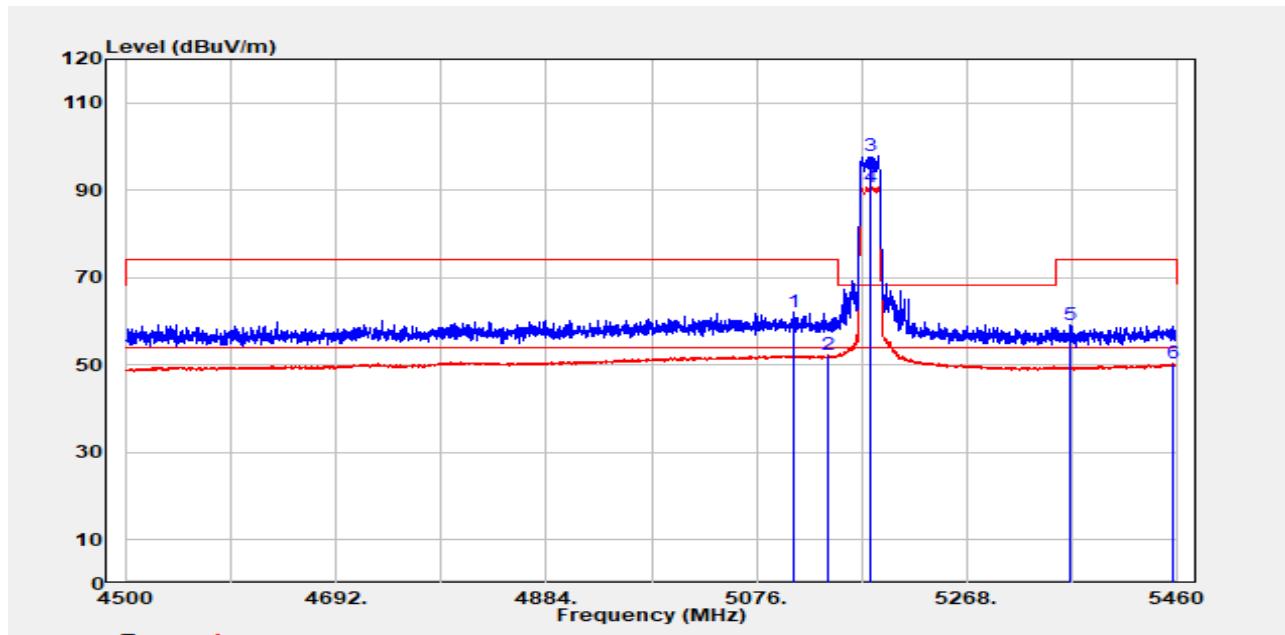
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5065.10	Peak	51.94	10.38	62.32	74.00	-11.68
5149.84	Average	42.01	10.80	52.81	54.00	-1.19
5180.00	Peak	91.22	10.64	101.86	-	-
5180.00	Average	84.29	10.64	94.93	-	-
5351.73	Peak	48.85	10.26	59.11	74.00	-14.89
5454.96	Average	39.64	10.49	50.13	54.00	-3.87

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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11n20 Test Date :2025-05-13
Test Frequency :5180 MHz Temp./Humi. :20.2°C/55%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



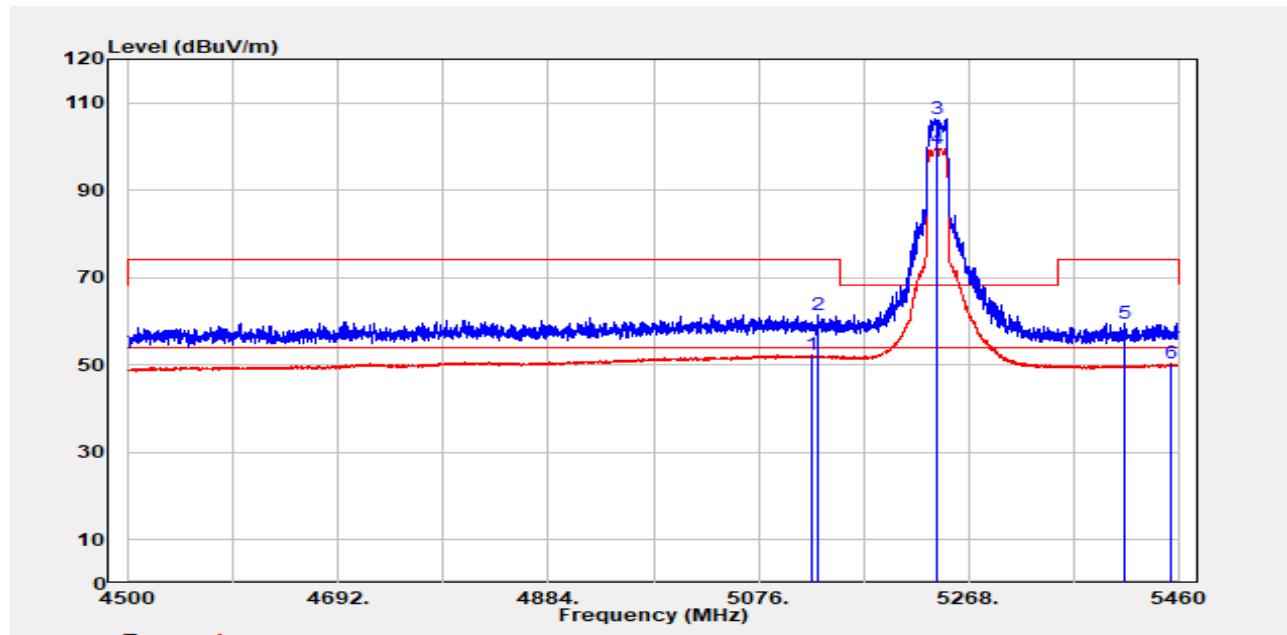
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5110.71	Peak	51.35	10.69	62.04	74.00	-11.96
5141.68	Average	41.46	10.77	52.23	54.00	-1.77
5180.00	Peak	87.10	10.64	97.74	-	-
5180.00	Average	80.25	10.64	90.89	-	-
5363.26	Peak	48.80	10.28	59.08	74.00	-14.92
5456.40	Average	39.81	10.50	50.31	54.00	-3.69

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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11n20 Test Date :2025-05-13
Test Frequency :5240 MHz Temp./Humi. :20.2°C/55%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



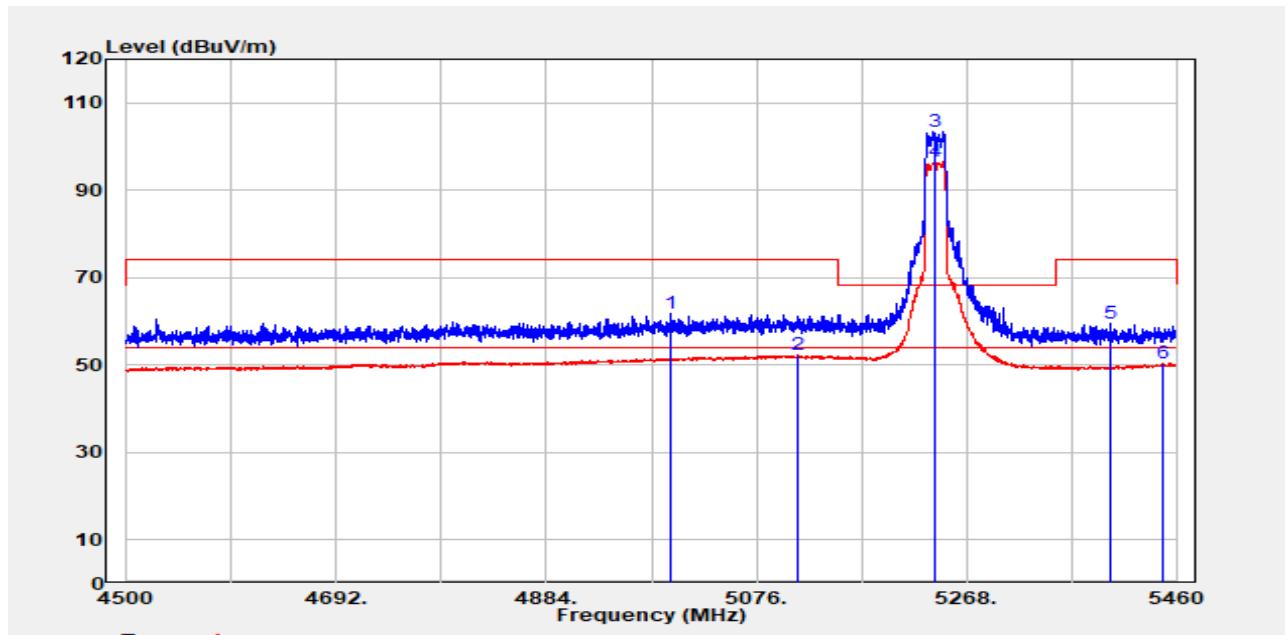
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5125.60	Average	41.61	10.73	52.34	54.00	-1.66
5130.40	Peak	50.64	10.74	61.38	74.00	-12.62
5240.00	Peak	96.16	10.19	106.35	-	-
5240.00	Average	89.30	10.19	99.49	-	-
5411.27	Peak	49.16	10.36	59.52	74.00	-14.48
5453.04	Average	39.92	10.48	50.40	54.00	-3.60

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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11n20 Test Date :2025-05-13
Test Frequency :5240 MHz Temp./Humi. :20.2°C/55%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



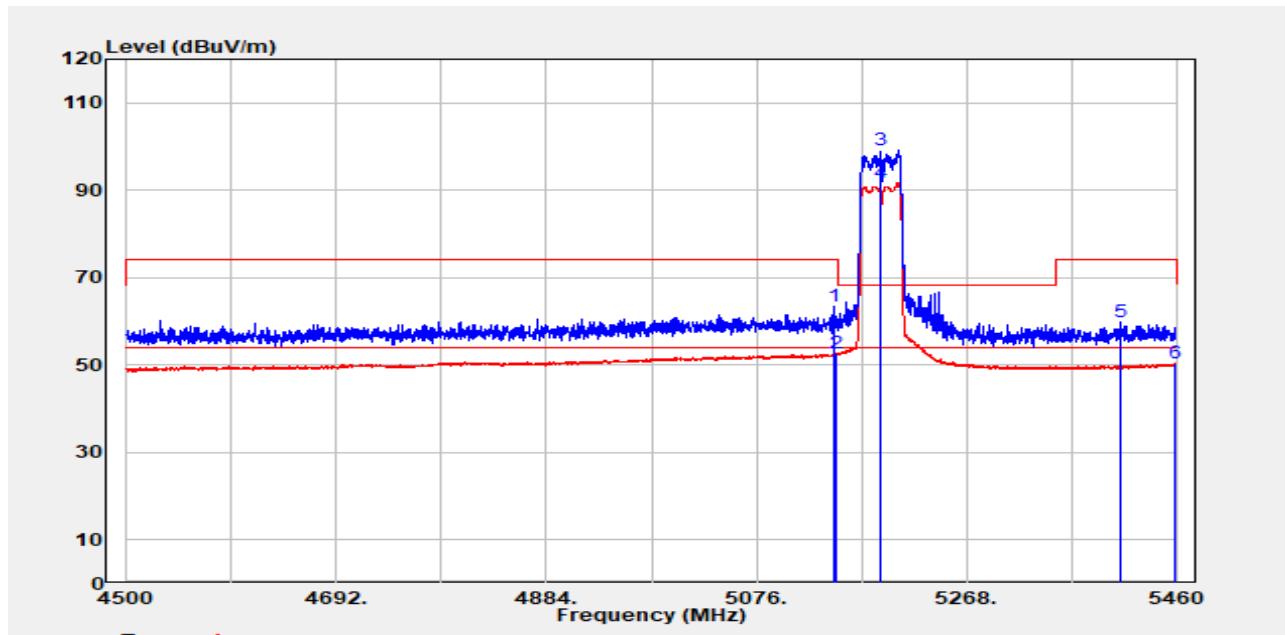
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4998.13	Peak	51.56	10.13	61.69	74.00	-12.31
5113.83	Average	41.53	10.70	52.23	54.00	-1.77
5240.00	Peak	93.16	10.19	103.35	-	-
5240.00	Average	86.56	10.19	96.75	-	-
5400.23	Peak	49.32	10.33	59.65	74.00	-14.35
5447.76	Average	39.83	10.46	50.29	54.00	-3.71

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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11n40 Test Date :2025-05-14
Test Frequency :5190 MHz Temp./Humi. :20.2°C/55%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



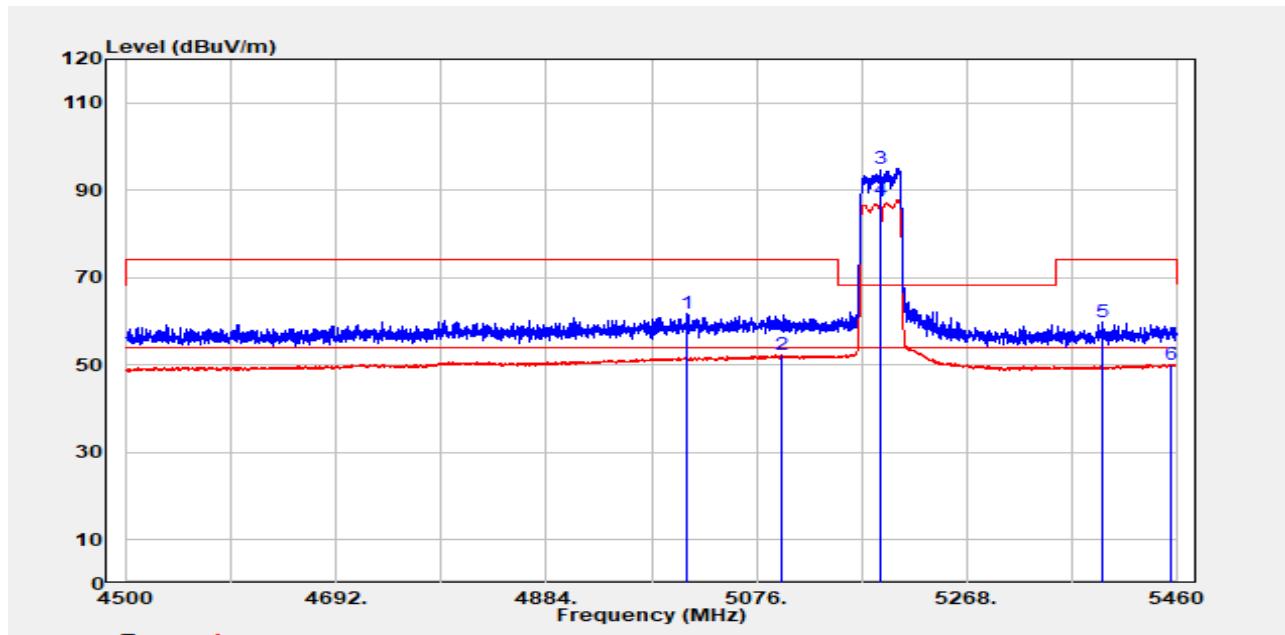
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5146.48	Peak	52.57	10.79	63.36	74.00	-10.64
5148.64	Average	41.79	10.80	52.59	54.00	-1.41
5190.00	Peak	88.48	10.58	99.06	-	-
5190.00	Average	81.05	10.58	91.63	-	-
5408.63	Peak	49.48	10.36	59.84	74.00	-14.16
5458.32	Average	39.90	10.50	50.40	54.00	-3.60

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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11n40 Test Date :2025-05-14
Test Frequency :5190 MHz Temp./Humi. :20.2°C/55%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5013.01	Peak	51.67	10.17	61.84	74.00	-12.16
5099.91	Average	41.61	10.66	52.27	54.00	-1.73
5190.00	Peak	84.29	10.58	94.87	-	-
5190.00	Average	77.30	10.58	87.88	-	-
5392.78	Peak	49.61	10.32	59.93	74.00	-14.07
5454.48	Average	39.70	10.49	50.19	54.00	-3.81

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台灣檢驗科技股份有限公司

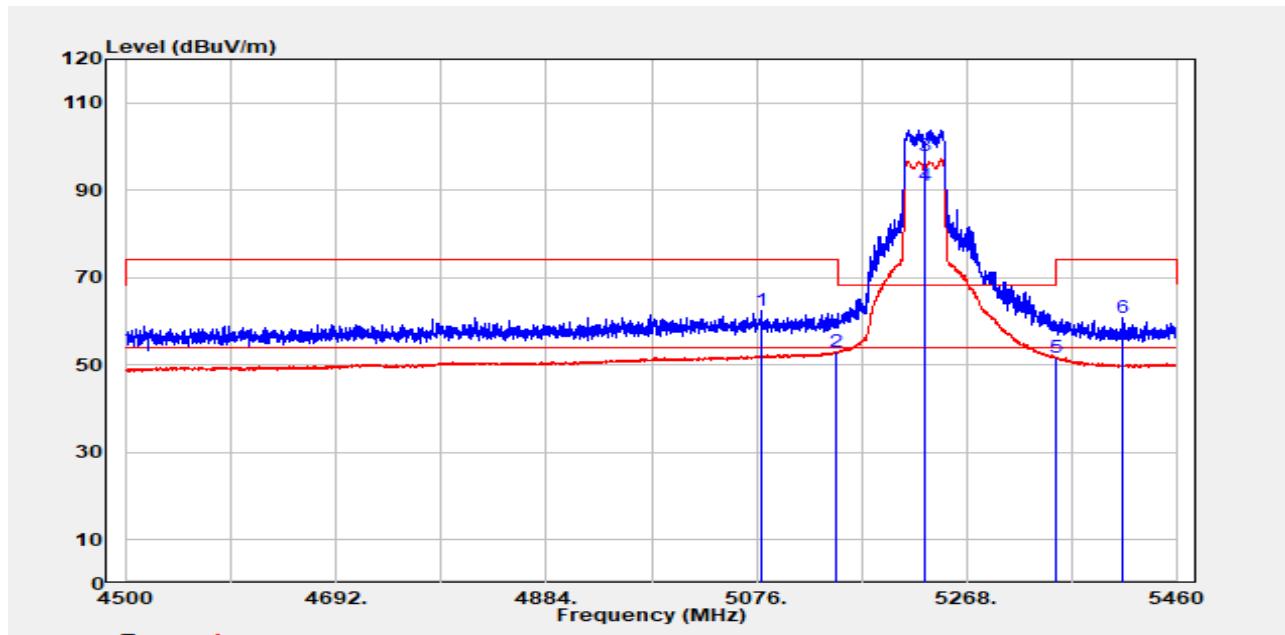
t (886-2) 2299-3279

f (886-2) 2298-0488

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Report Number :TERF2504001586E2 Test Site :SAC D
 Operation Mode :802.11n40 Test Date :2025-05-14
 Test Frequency :5230 MHz Temp./Humi. :20.2°C/55%
 Test Mode :Bandedge Antenna Pol. :Vertical
 EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5081.19	Peak	51.78	10.51	62.29	74.00	-11.71
5149.12	Average	42.17	10.80	52.97	54.00	-1.03
5230.00	Peak	87.54	10.28	97.82	-	-
5230.00	Average	80.73	10.28	91.01	-	-
5350.05	Average	41.36	10.26	51.62	54.00	-2.38
5411.27	Peak	50.46	10.36	60.82	74.00	-13.18

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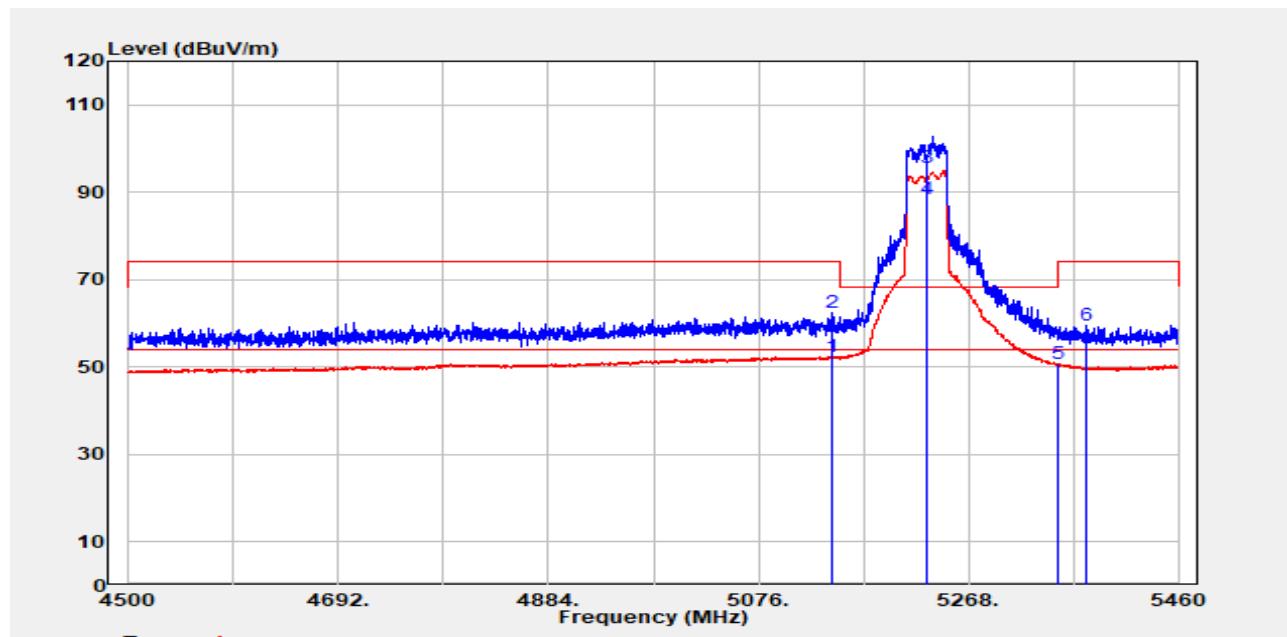
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Report Number :TERF2504001586E2 Test Site :SAC D
 Operation Mode :802.11n40 Test Date :2025-05-14
 Test Frequency :5230 MHz Temp./Humi. :20.2°C/55%
 Test Mode :Bandedge Antenna Pol. :Horizontal
 EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5142.64	Average	41.60	10.78	52.38	54.00	-1.62
5144.08	Peak	51.55	10.78	62.33	74.00	-11.67
5230.00	Peak	85.42	10.28	95.70	-	-
5230.00	Average	78.26	10.28	88.54	-	-
5350.05	Average	40.42	10.26	50.68	54.00	-3.32
5375.26	Peak	49.34	10.29	59.63	74.00	-14.37

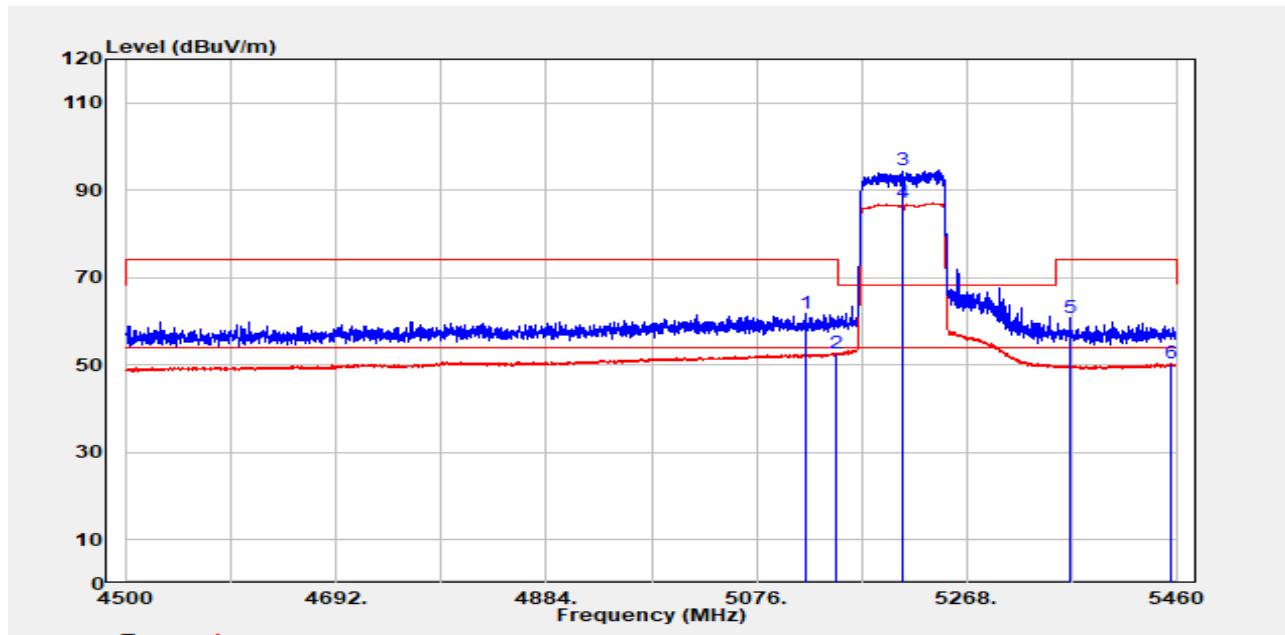
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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11ac80 Test Date :2025-05-14
Test Frequency :5210 MHz Temp./Humi. :20.2°C/55%
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E2 Plane Engineer :Temo Chen



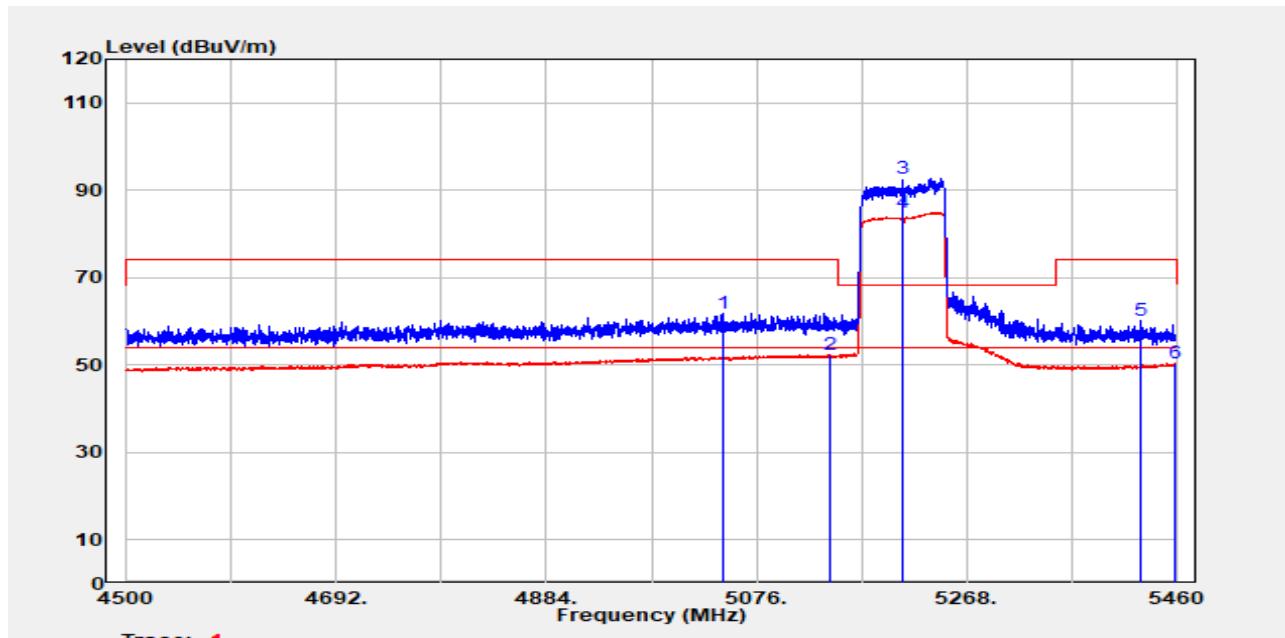
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5121.76	Peak	51.20	10.71	61.91	74.00	-12.09
5149.12	Average	41.83	10.80	52.63	54.00	-1.37
5210.00	Peak	84.25	10.45	94.70	-	-
5210.00	Average	76.54	10.45	86.99	-	-
5363.26	Peak	50.44	10.28	60.72	74.00	-13.28
5455.44	Average	39.99	10.49	50.48	54.00	-3.52

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Report Number :TERF2504001586E2 Test Site :SAC D
Operation Mode :802.11ac80 Test Date :2025-05-14
Test Frequency :5210 MHz Temp./Humi. :20.2°C/55%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5044.70	Peak	51.44	10.23	61.67	74.00	-12.33
5142.64	Average	41.52	10.78	52.30	54.00	-1.70
5210.00	Peak	82.19	10.45	92.64	-	-
5210.00	Average	74.46	10.45	84.91	-	-
5427.83	Peak	49.88	10.41	60.29	74.00	-13.71
5459.52	Average	39.87	10.51	50.38	54.00	-3.62

~ End of Report ~

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