FCC RF Test Report

For

Audio Device

Trade Name : Denon DJ
Model No. : JP24
FCC ID : Y4O-JP24
Date of Receipt : January 02, 2026
Date of Report : April 07, 2026

Prepared for

inMusic Brands, Inc.

200 Scenic View Drive, Cumberland, RI 02864, U.S.A.

Prepared by

Central Research Technology Co.

11, Lane 41, Fushuen St., Jungshan Chiu, Taipei 104, Taiwan

Verification of Compliance

Equipment under Test	: Audio Device
Model No.	: JP24
FCC ID	: Y4O-JP24
Applicant	: inMusic Brands, Inc.
Address	: 200 Scenic View Drive, Cumberland, RI 02864, U.S.A.
Applicable Standards	: 47 CFR part 15, Subpart E (Section 15.407) KDB 789033 D02 v02r01 KDB 594280 D02 v01r03 ANSI C63.10-2020 (plus 2024 Amendment)
Deviation	: The method, configuration and arrangement of the tests are following the requirement of customer and the applicable standards cited above.
Condition of Test Sample	: Mass Production

We, **Central Research Technology Co**., hereby certify that one sample of the designated product was tested in our facility during the period mentioned above. The test records, data evaluation and Equipment Under Test (EUT) configurations shown in the present report are true and accurate representation of the measurements of the sample's RF characteristics under the conditions herein specified.

The test results show that the EUT as described in the present report is in compliance with the requirements set forth in the standards mentioned above and apply to the tested sample identified in the present report only. The test report shall not be reproduced, except in its entirety, without the written approval of Central Research Technology Co.

Prepared By : Weitin Chen **Date** : April.07.2026
(Weitin Chen / Report Producer)

Approved By : Sam Chien **Date** : April.07.2026
(Sam Chien / Authorized Signatory)

Contents

1 General Description

1.1 General Description of EUT

Equipment under Test	:	Audio Device		
Model No.	:	JP24		
Test Power in	:	120Vac / 60Hz		
Channel Numbers	:	802.11a	U-NII-1	4ch
		802.11a	U-NII-3	5ch
		802.11ac(VHT20)	U-NII-1	4ch
		802.11ac(VHT20)	U-NII-3	5ch
		802.11ac(VHT40)	U-NII-1	2ch
		802.11ac(VHT40)	U-NII-3	2ch
		802.11ac(VHT80)	U-NII-1	1ch
		802.11ac(VHT80)	U-NII-3	1ch
Frequency Range	:	U-NII-1	5150 MHz – 5250 MHz	
		U-NII-3	5725 MHz – 5850 MHz	
Modular Function	:	BPSK, QPSK, 16/64/256-QAM		

Channel List

BW 20 MHz		BW 40 MHz		BW 80 MHz	
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
36	5180	38	5190	42	5210
40	5200				
44	5220	46	5230		
48	5240				
149	5745	151	5755	155	5775
153	5765				
157	5785	159	5795		
161	5805				
165	5825				

1.2 Applied standards

(1) Output power / EIRP / Spectral density Measurement

According to §15.247 (3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the con-ducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to §15.407(a)(1)(ii), For an indoor access point operating in the band 5150-5250 MHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30 dBm). The maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: Devices with a maximum e.i.r.p. greater than 500 mW shall implement **TPC** (Transmit Power Control) in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 30 dBm.

The maximum conducted output power shall not exceed the lesser of 250 mW (24 dBm) or $11 + 10\log_{10} B$, dBm, where B is the 26 dB emission bandwidth in megahertz. The maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: Devices with a maximum e.i.r.p. greater than 500 mW shall implement **TPC** (Transmit Power Control) in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 30 dBm.

(3)(i) The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30 dBm). The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3)(ii) For an indoor access point operating in the band 5850-5895 MHz, the maximum e.i.r.p. over the frequency band of operation shall not exceed 36 dBm. The maximum e.i.r.p. spectral density shall not exceed 20 dBm/MHz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum e.i.r.p. and the maximum e.i.r.p. spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) Undesirable Emission – Radiated Measurement

According to §15.247(d), all other emissions outside these bands shall not exceed the general radiated emission limits specified in §15.209(a). And according to §15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

According to §15.407(a)(1)(ii), For an **indoor access point** operating in the band 5150-5250 MHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30 dBm). The maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: Devices with a maximum e.i.r.p. greater than 500 mW shall implement **TPC (Transmit Power Control)** in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 30 dBm.

(2) The maximum conducted output power shall not exceed the lesser of 250 mW (24 dBm) or $11 + 10\log_{10} B, dBm$, where B is the 26 dB emission bandwidth in megahertz. The maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: Devices with a maximum e.i.r.p. greater than 500 mW shall implement **TPC (Transmit Power Control)** in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 30 dBm.

(3)(i) The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30 dBm). The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3)(ii) For an indoor access point operating in the band 5850-5895 MHz, the maximum e.i.r.p. over the frequency band of operation shall not exceed 36 dBm. The maximum e.i.r.p. spectral density shall not exceed 20 dBm/MHz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum e.i.r.p. and the maximum e.i.r.p. spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) 26dB /99% Emission Bandwidth Measurement

According to §15.407(a) & (e): For the U-NII-1, U-NII-2A, and U-NII-2C bands, the 26 dB emission bandwidth is used to determine the maximum conducted output power. For the U-NII-3 band (5.725-5.85 GHz), the minimum 6 dB bandwidth shall be at least 500 kHz.

(4) 6dB Emission Bandwidth Measurement

According to §15.247(a)(2), Systems using digital modulation techniques may operate in the 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

(5) Transmission in the Absence of data

According to §15.407(c), The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Note for 15.247 (DTS): > While §15.247 does not explicitly mandate this verbatim requirement, the device follows the same smart spectrum etiquette. The operational description provided in the filing demonstrates that the transmitter remains inactive when there is no data to transmit or in the event of a system failure, ensuring compliance with the intent of efficient spectrum usage.

(6) Frequency Stability

According to §15.407(g), Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

(7) TPC and DFS Measurement

According to §15.407(a)(2), for the 5250-5350 MHz band, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW (24 dBm) or $11 + 10 \log_{10} B, \text{ dBm}$, where B is the 26 dB emission bandwidth in megahertz. The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: Devices with a maximum e.i.r.p. greater than 500 mW shall implement **TPC (Transmit Power Control)** in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 30 dBm.

(h)(2) U-NII devices operating in the bands 5.25-5.35 GHz and 5.47-5.725 GHz shall employ a **DFS radar detection mechanism** to detect the presence of radar systems and to avoid co-channel operation with radar systems..

The **DFS radar signal detection threshold** shall be: **-62 dBm** for devices with a maximum e.i.r.p. less than 200 mW and a power spectral density less than 10 dBm/MHz; or **-64 dBm** for devices with a maximum e.i.r.p. of 200 mW to 1 W or a power spectral density greater than 10 dBm/MHz. The detection threshold power is the received power, averaged over a 1-microsecond reference to a 0 dBi antenna.

(8) Conduction Emission Requirement

For intentional device, according to §15.207(a), line conduction emission limit is as below table.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency.

(9) Antenna Requirement

According to FCC 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

1.3 Test result

Test Item	FCC standard section	Report section	Test result
Output power / EIRP / Spectral density Measurement	§15.247(3) §15.407(a)	2	Compliant
26dB /99% Emission Bandwidth Measurement	§15.407(a) §15.407(e)	3	Compliant
6dB Emission Bandwidth Measurement	§15.247(a)(2)	4	Compliant
Undesirable Emission Radiated Measurement	§15.247(d) §15.407(a)(1) §15.407(a)(2) §15.407(a)(3)	5	Compliant
Transmission in the Absence of data	§15.407(c)	6	Compliant
Frequency Stability	§15.407(g)	7	Compliant
TPC and DFS Measurement	§15.407(a)(2) §15.407(h)(2)	8	NA
Conduction Emission Measurement	§15.207(a)	9	Compliant
Antenna Requirement	§15.203	10	Compliant

According to ANSI C63.10, determining compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

1.4 The Support Units

Equipment Used in Radiated Tested System :

No.	Unit	Trade Name	Model No.	Power Code	Supported by lab.
1	Notebook	hp	ProBook 6470b	1.8m	--
2	Kit	NA	NA	--	√

Equipment Used in AC Line Conducted Tested System :

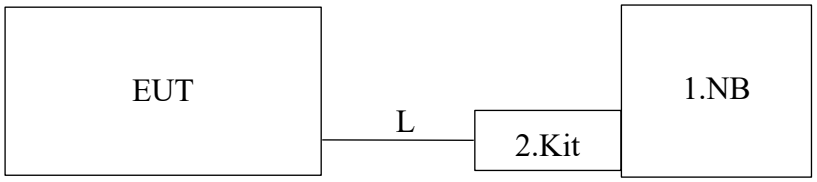
No.	Unit	Trade Name	Model No.	Power Code	Supported by lab.
1	Earphone & Microphone	KTNET	KTSEP213	N/A	√
2	USB Flash Disk	N/A	N/A	N/A	--
3	Speaker	Xiaomi	ASB02G	1.5m	--
4	SD Card	N/A	N/A	N/A	--

Connecting Cables :

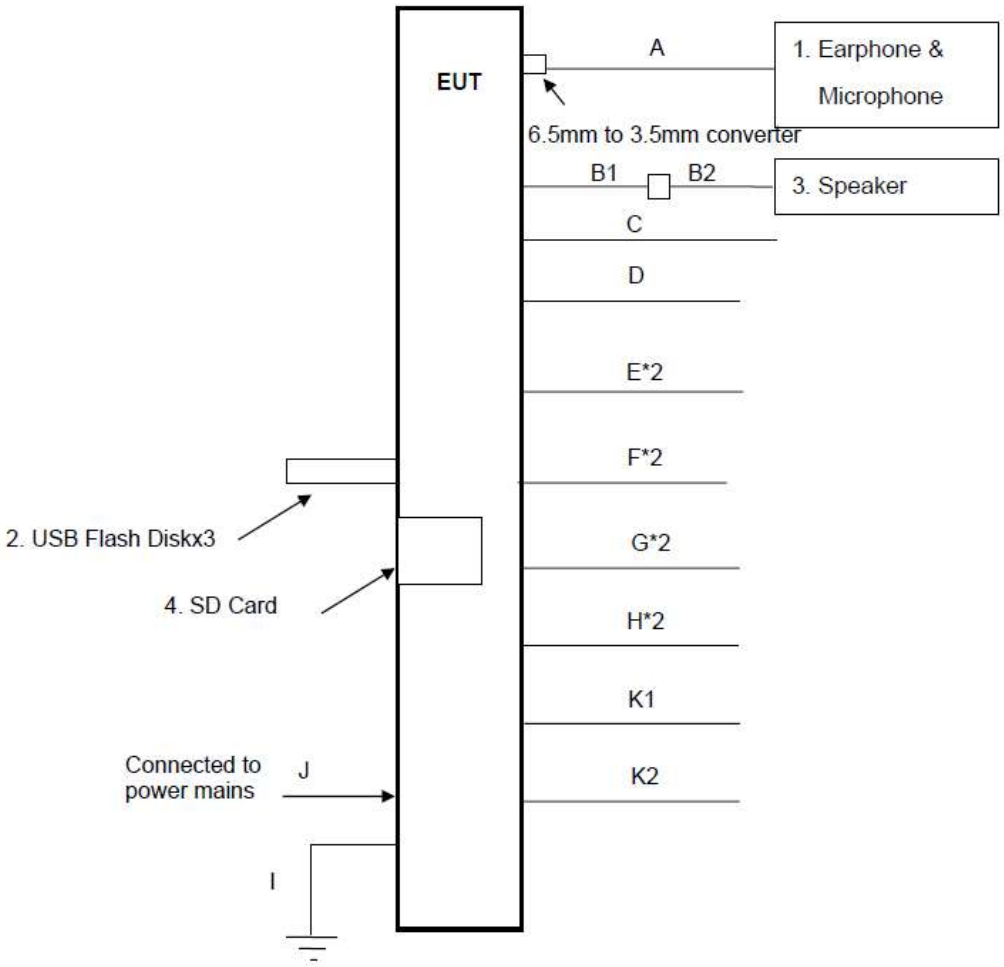
No.	Cable	Length	Shielded	Core	Shielded Backshell	Supported by lab.	Note
A	Earphone Cable	1.2m	√			√	
B1	RCA to Audio cable	0.2m					
B2	Audio Cable	1.5m				√	Model Name: 6016
C	COMP(Type-C) Cable	1.0m					floating
D	LIGHTING Cable	1.0m					floating
E	ZONE OUT Cable	1.0m					floating
F	BOOTH OUT Cable	0.5m					floating
G	MAIN OUT Cable	3.0m					floating
H	RCA cable (2 lines)	1.5m					floating
I	Ground Cable	1.2m					
J	Power Cable	1.8m					
K1	MICROPHONE/INSTRUMENT Cable	1.0m					floating
K2		0.6m					floating
L	Dupont Cable	30cm				√	--

1.5 Layout of Setup

Radiated Tested



AC Line Conducted



1.6 Test Instruments

RF conducted emission Test

Test Site and Equipment	Manufacturer	Model No. /Serial No.	Last Calibration Date	Calibration Due Date
Environmental Test Chamber	BACL	TH-150-40/ 30255	2025/9/3	2026/9/2
Spectrum Alayzer	R&S	FSV40/ 101609	2025/10/22	2026/10/21
MXA Signal Analyzer	KeySight	N9020A/ MY54420147	2025/7/21	2026-07-20
8-Port Modules for Switch Units	R&S	OSP-B157W8/ 100926	2024/10/15	2026/10/14
RF Cable	JMCA	MWX/ C0150~C0153, C0161~C0163	2025/6/4	2026/6/3
Test software	R&S	EMC32/ V11.10.00	NCR	NCR
Semi-anechoic chamber	N/A	TR13	NCR	NCR

Note:

1. The calibrations are traceable to NML/ROC.
2. NCR : No Calibration Required.

Radiated Emission Test (Below 1GHz)

Test Site and Equipment	Manufacturer	Model No. /Serial No.	Last Calibration Date	Calibration Due Date
EMI Receiver	R&S	ESCS30/ 836858/020	2025/11/19	2026/11/18
Spectrum Alayzer	Agilent	E4407B/ MY45106706	2025/6/17	2026/6/16
Antenna	SCHWARZBECK & Mini-Circuits	VULB 9168 & BW-N5W5+/ VULB 9168-612 & 004	2025/4/11	2026/4/10
Pre-amplifer	Mini-circuit	ZKL-1R5+/ 004	2026/3/22	2026/9/21
Loop Antenna	EMCO	6502/ 00020558	2025/9/12	2026/9/11
RF cable	JYEBAO	0214/ C0164 + C0080-1 + C0080-2+RSU(CRC-011/11)+C0080-3	2026/3/22	2026/9/21
Test software	Audix	e3/ V6.110303a2	NCR	NCR
Semi-anechoic chamber	ETS. LINDGREN	TR11/ 906-A	2025/6/4	2026/6/3

Note:

1. The calibrations are traceable to NML/ROC.
2. NCR : No Calibration Required.
3. The calibration date of the semi-anechoic chamber listed above is the date of NSA measurement.

Radiated Emission Test (Above 1 GHz)

Test Site and Equipment	Manufacturer	Model No. /Serial No.	Last Calibration Date	Calibration Due Date
Antenna	EMCO	3117/ 0082847	2025/12/09	2026/12/08
Antenna	Com-Power	AH-840/ 101098	2025/12/31	2026/12/30
Pre-amplifer	MITEQ	TTA1800-30-HG-N-M/ 1904295	2025/5/5	2026/5/4
Pre-amplifer	MITEQ	TTA1840-35-HG/ 2034375	2025/9/17	2026/9/16
RFcable	Suhner	Sucoflex 106P / C0091	2025/9/29	2026/9/28
RFcable	JMCA	MWX241/B/ C0103~C0104	2025/4/18	2026/4/17
Spectrum Alayzer	R&S	FSV40-N/ 101341	2025/12/24	2026/12/23
Test software	Audix	e3/ V9 20150907c	NCR	NCR
Semi-anechoic chamber	ETS. LINDGREN	TR1/ 17627-B	2025/11/22	2026/11/21

Note:

1. The calibrations are traceable to NML/ROC.
2. NCR : No Calibration Required.
3. The calibration date of the chamber TR1 listed above is the date of site VSWR measurement.

AC conducted emission Test

Test Site and Equipment	Manufacturer	Model No. /Serial No.	Last Calibration Date	Calibration Due Date
Test Receiver	R&S	ESR/ 102550	2025/4/29	2026/4/28
LISN	R&S	ENV4200/ 833209/010	2025/7/30	2026/7/26
RF Cable	JYEBAO	0214/ C0052 ~ 54	2025/9/26	2026/3/25
Test Software	Audix	e3/ V6.110303a2	NCR	NCR
Shielded room	ETS.LINDGREN	TR5/ 15353-F	NCR	NCR

Note:

1. The calibrations are traceable to NML/ROC.
2. NCR : No Calibration Required.

1.7 Test Capability

Test Facility

The test facility used for evaluating the conformance of the EUT with each standard in the present report meets what required in CISPR16 series and ANSI C63.4:2014 amended as per ANSI 63.4a:2017.

Test Room	Type of Test Room	Descriptions
TR1	3m fully-anechoic chamber	For the radiated emission measurement (above 1GHz)
TR11	3m semi-anechoic chamber	For the radiated emission measurement (below 1GHz)
TR13	Test Site	For the RF conducted emission measurement.
TR5	Shielding Room	For the conducted emission measurement.
TR20	Shielding Room	

Test Laboratory Competence Information

Central Research Technology Co. has been accredited / filed / authorized by the agencies listed in the following table.

Certificate	Nation	Agency	Code	Mark
Accreditation Certificate	USA	NVLAP	200575-0	ISO/IEC 17025
	USA	FCC	TW1104, TW0019	ISO/IEC 17025
	R.O.C. (Taiwan)	TAF	0905	ISO/IEC 17025
	R.O.C. (Taiwan)	BSMI	SL2-IN-E-0033, SL2-IS-E-0033, SL2-R1/R2-E-0033, SL2-A1-E-0033, SL2-L1-E-0033	ISO/IEC 17025
	Canada	ISED	TW0905	ISO/IEC 17025
Site Filing Document	Japan	VCCI	R-11527,C-11609,T-11441, G-10010,C-20010, G-10614, T-20009	Test facility list & NSA Data
Authorization Certificate	Germany	TUV	UA 50235497	ISO/IEC 17025

The copy of each certificate can be downloaded from our web site: www.crc-lab.com

1.8 Measurement Uncertainty

The assessed measurement uncertainty with a suitable coverage factor K to ensure 95% confidence level for the normal distribution are shown as below, the values are less than U_{cispr} in table 1 of CISPR 16-4-2.

Test Item	Measurement Uncertainty	
Occupied Channel Bandwidth	0.6 %	
RF output power, conducted	0.8 dB	
Radiated Emission: (9 kHz~30 MHz)	Horizontal ±2.86 dB；Vertical ±2.88 dB	
Radiated Emission: (30 MHz~1 GHz)	Horizontal ±4.54 dB；Vertical ±6.26 dB	
Radiated Emission: (1 GHz~6 GHz)	Horizontal ±4.70 dB；Vertical ±4.56 dB	
Radiated Emission: (6 GHz~18 GHz)	Horizontal ±4.76 dB；Vertical ±4.64 dB	
Radiated Emission: (18 GHz~40 GHz)	Horizontal ±4.94 dB；Vertical ±4.96 dB	
Line Conducted Emission	NSLK-8128-RC	±2.92 dB
	ESH2-Z5	±2.96 dB

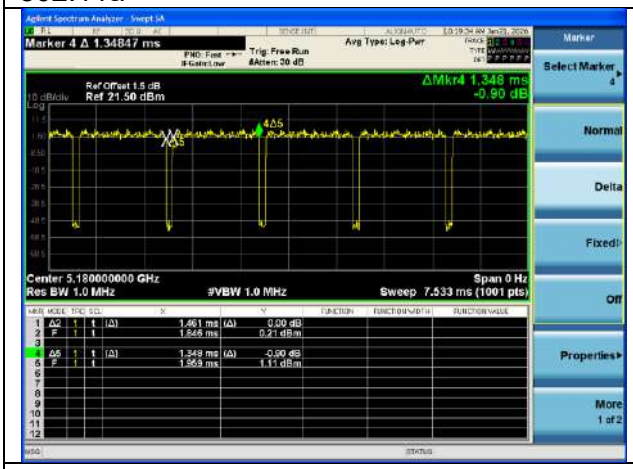
1.9 Duty factor

Mode	ON time (ms)	Total time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/Ton (ms)	VBW (kHz)
a	1.35	1.46	92.24	0.35	0.74	1.00
VHT20	0.67	0.77	86.38	0.64	1.50	3.00
VHT40	0.34	0.44	76.58	1.16	2.94	10.00
VHT80	0.18	0.29	61.50	2.11	5.67	10.00

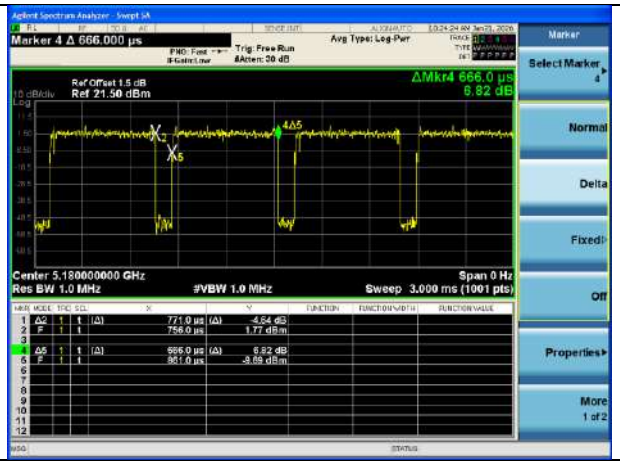
If duty cycle of test signal is ≥ 98 %, duty factor is not required.
For frequency above 1GHz, the video bandwidth setting for average detector: VBW = 10Hz
If duty cycle of test signal is < 98 %, duty factor shall be considered.
For frequency above 1GHz, the video bandwidth setting for average detector: VBW ≥ 1/Ton
The output power = measured power + duty factor

Test Data :

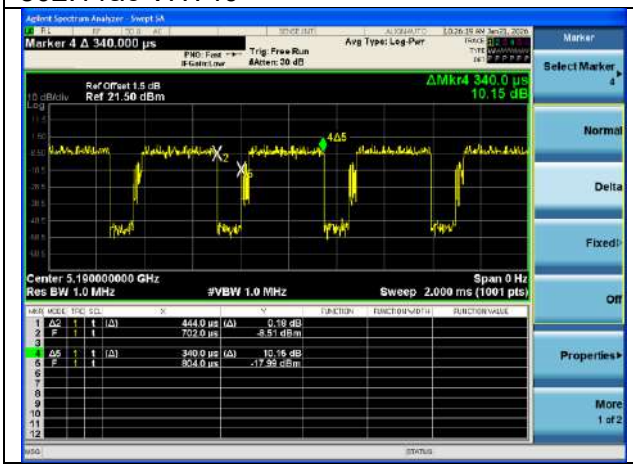
802.11a



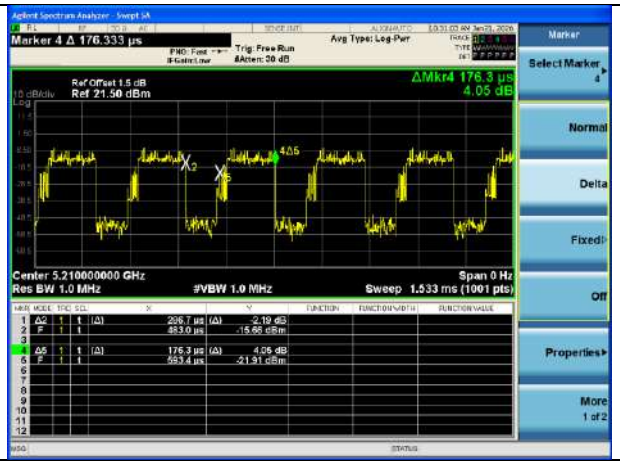
802.11ac VHT20



802.11ac VHT40



802.11ac VHT80



2 Output power / EIRP / Spectral density Measurement

Result: Pass

2.1 Applied standard

According to FCC Part 15.407

15.407(a)(1)(ii) Frequency Band 5150-5250 MHz

For an indoor access point operating in the band 5150-5250 MHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30 dBm). The maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

15.407(a)(2) Frequency Band 5250-5350 MHzThe maximum conducted output power shall not exceed 250 mW or $11 + 10\log_{10} B,\ dBm$, whichever is less. The power spectral density shall not exceed 11 dBm in any 1 MHz band. B is the 26 dB emission bandwidth in megahertz.

The maximum e.i.r.p. shall not exceed 1 W or $17 + 10\log_{10} B, dBm$, whichever is less. B is the 26 dB emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W (30 dBm).

15.407(a)(2) Frequency Bands 5470-5600 MHz and 5650-5725 MHzThe maximum conducted output power shall not exceed 250 mW or $11 + 10\log_{10} B, dBm$, whichever is less. The power spectral density shall not exceed 11 dBm in any 1 MHz band. B is the 26 dB emission bandwidth in megahertz.

The maximum e.i.r.p. shall not exceed 1 W or $17 + 10\log_{10} B, dBm$, whichever is less. B is the 26 dB emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W (30 dBm).

15.407(a)(3)(i) Frequency Band 5725-5850 MHzThe maximum conducted output power shall not exceed 1 W (30 dBm). The power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

15.407(a)(3)(ii) Frequency Band 5850-5895 MHz

All devices shall have a 6 dB bandwidth of at least 500 kHz.

For fixed outdoor access points, the maximum e.i.r.p. shall not exceed 4 W (36 dBm). The maximum e.i.r.p. spectral density shall not exceed 23 dBm/MHz. The maximum e.i.r.p. measured at any elevation angle greater than 30 degrees above the horizon, shall not exceed 125 mW (21 dBm) over the 5850-5895 MHz frequency band.

For fixed outdoor client devices, the maximum e.i.r.p. shall not exceed 1 W (30 dBm). The maximum e.i.r.p. spectral density shall not exceed 17 dBm/MHz.

For indoor access points, the maximum e.i.r.p. shall not exceed 4 W (36 dBm). The maximum e.i.r.p. spectral density shall not exceed 20 dBm/MHz.

For indoor subordinate devices, the maximum e.i.r.p. shall not exceed 4 W (36 dBm). The maximum e.i.r.p. spectral density shall not exceed 20 dBm/MHz.

For indoor client devices, the maximum e.i.r.p. shall not exceed 1 W (30 dBm). The maximum e.i.r.p. spectral density shall not exceed 14 dBm/MHz.

2.2 Measurement Procedure

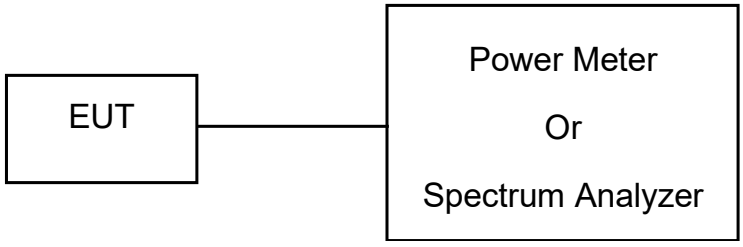
For Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

For Power Spectral Density

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
3. Set RBW=1MHz,VBW=3MHz, Span=50MHz (Base Mode), Sweep time = Auto, traces 100 sweeps of video averaging for 5150-5725MHz;
4. Set RBW=500KHz,VBW=1.5MHz, Span=60MHz (Base Mode), Sweep time = Auto, traces 100 sweeps of video averaging for 5725-5850MHz &5850-5895 MHz .
5. Record the max. reading.
6. Repeat above procedures until all frequency measured were complete.

2.3 Test configuration



2.4 Test Data

Test Mode : Continuous Transmitting	**Tester :** Hunter
Ambient Temperature : 23℃	**Relative Humidity :** 58%
Test Date : 2026/01/21	

Output Power Measurement

Band	Mode	Freq. (MHz)	Output Power (dBm)	Duty Factor (dB)	Total Output Power (dBm)	Direction Gain (dBi)	EIRP (dBm)	Output Power Limit(dBm)
U-NII-1	11a	5180	12.08	0.35	12.43	2.00	14.43	23.98
		5200	12.30	0.35	12.65	2.00	14.65	23.98
		5240	12.89	0.35	13.24	2.00	15.24	23.98
	VHT20	5180	11.80	0.64	12.44	2.00	14.44	23.98
		5200	12.26	0.64	12.90	2.00	14.90	23.98
		5240	12.41	0.64	13.05	2.00	15.05	23.98
	VHT40	5190	12.30	1.16	13.46	2.00	15.46	23.98
		5230	11.90	1.16	13.06	2.00	15.06	23.98
	VHT80	5210	10.10	2.11	12.21	2.00	14.21	23.98

Band	Mode	Freq. (MHz)	Output Power (dBm)	Duty Factor (dB)	Total Output Power (dBm)	Direction Gain (dBi)	EIRP (dBm)	Output Power Limit (dBm)	EIRP Limit (dBm)
U-NII-3	11a	5745	9.99	0.35	10.34	2.00	12.34	30.00	36.00
		5785	9.55	0.35	9.90	2.00	11.90	30.00	36.00
		5825	8.52	0.35	8.87	2.00	10.87	30.00	36.00
	VHT20	5745	10.34	0.64	10.98	2.00	12.98	30.00	36.00
		5785	9.61	0.64	10.25	2.00	12.25	30.00	36.00
		5825	8.98	0.64	9.62	2.00	11.62	30.00	36.00
	VHT40	5755	11.30	1.16	12.46	2.00	14.46	30.00	36.00
		5795	12.30	1.16	13.46	2.00	15.46	30.00	36.00
	VHT80	5775	10.80	2.11	12.91	2.00	14.91	30.00	36.00

Power Spectral Density Measurement

Band	Mode	Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Direction Gain (dBi)	EIRP Density (dBm/MHz)	EIRP Density Limit (dBm/MHz)
U-NII-1	11a	5180	0.03	0.351	0.38	2.00	2.38	11.00
		5200	-0.04	0.351	0.32	2.00	2.32	11.00
		5240	-1.26	0.351	-0.90	2.00	1.10	11.00
	VHT20	5180	-0.55	0.636	0.08	2.00	2.08	11.00
		5200	-0.62	0.636	0.01	2.00	2.01	11.00
		5240	-1.77	0.636	-1.13	2.00	0.87	11.00
	VHT40	5190	-5.03	1.159	-3.87	2.00	-1.87	11.00
		5230	-6.31	1.159	-5.15	2.00	-3.15	11.00
	VHT80	5210	-9.67	2.111	-7.56	2.00	-5.56	11.00

Band	Mode	Frequency (MHz)	PSD (dBm/500kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)
U-NII-3	11a	5745	-5.99	0.351	-5.64	30.00
		5785	-4.52	0.351	-4.17	30.00
		5825	-4.61	0.351	-4.25	30.00
	VHT20	5745	-6.51	0.636	-5.88	30.00
		5785	-4.81	0.636	-4.17	30.00
		5825	-4.77	0.636	-4.13	30.00
	VHT40	5755	-12.50	1.159	-11.34	30.00
		5795	-8.13	1.159	-6.97	30.00
	VHT80	5775	-12.41	2.111	-10.29	30.00

U-NII-1 a mode

U-NII-3 a mode

U-NII-1 VHT20 mode

U-NII-3 VHT20 mode

U-NII-1 VHT40 mode

U-NII-3 VHT40 mode

U-NII-1 VHT80 mode

U-NII-3 VHT80 mode

3 26dB /99% Emission Bandwidth Measurement

Result: Pass

3.1 Applied standard

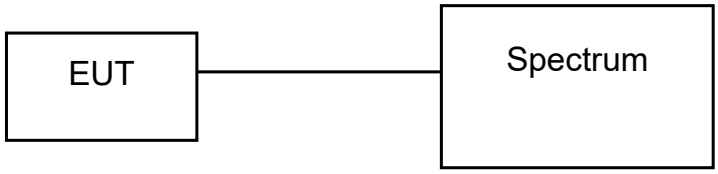
According to FCC Part 15.407, No Limit required.
KDB 789033 D02 v02r01 Section II.D, the transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded.

3.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the.antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=300KHz, VBW =1MHz, Span= 30MHz, Sweep=auto ,(OBW <20MHz)
   Set the spectrum analyzer as RBW=510KHz, VBW =1.6MHz, Span= 50MHz, Sweep=auto ,(OBW <40MHz)
   Set the spectrum analyzer as RBW=1000KHz, VBW =3MHz, Span= 100MHz, Sweep=auto ,(OBW <80MHz)
4. Mark the peak frequency and –26dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured were complete.

3.3 Test configuration

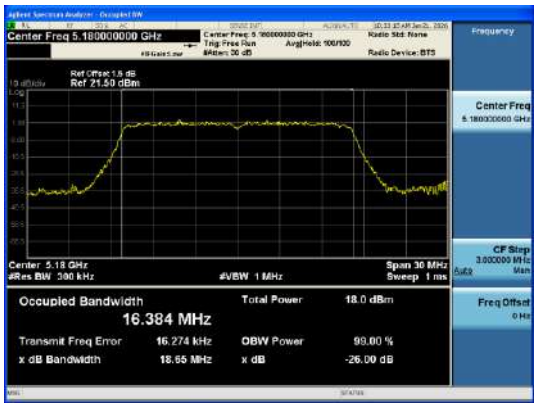


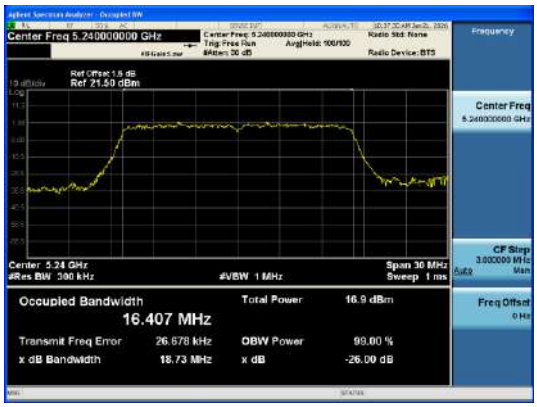
3.4 Test Data

Test Mode : Continuous Transmitting	**Tester :** Hunter
Ambient Temperature : 23℃	**Relative Humidity :** 58%
Test Date : 2026/01/21	

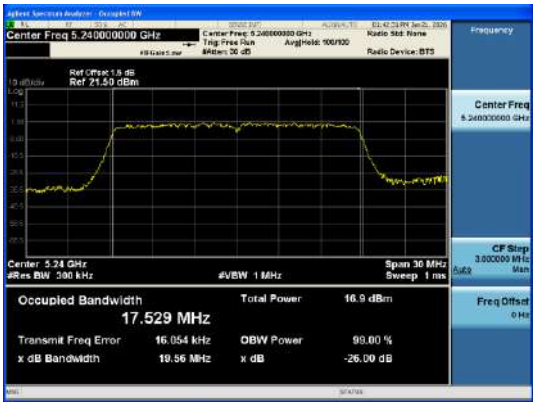
Band	Mode	Frequency (MHz)	26dB Bandwidth (MHz)	99% OBW (MHz)
U-NII-1	11a	5180	18.65	16.38
		5200	18.61	16.40
		5240	18.73	16.41
	VHT20	5180	19.51	17.52
		5200	19.55	17.52
		5240	19.56	17.53
	VHT40	5190	38.99	35.98
		5230	39.09	36.05
	VHT80	5210	85.54	76.25

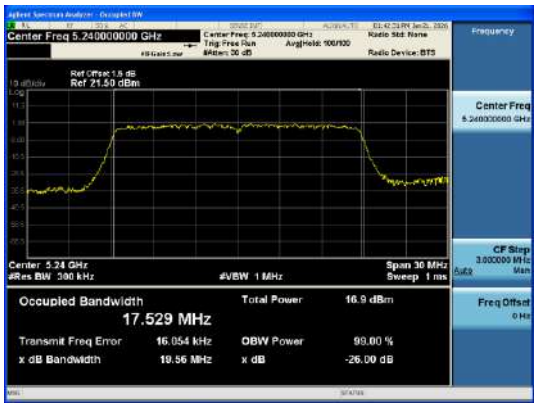
U-NII-1 a mode





U-NII-1 VHT20 mode





U-NII-1 VHT40 mode

U-NII-1 VHT80 mode

4 6dB Emission Bandwidth Measurement

Result: Pass

4.1 Applied standard

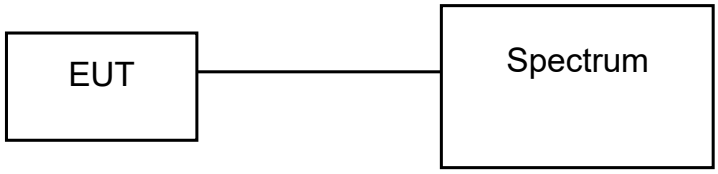
According to **FCC Part 15.247(a)(2)**

For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz.

4.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=100kHz, VBW =100MHz, Span= 50MHz, Sweep=auto
4. Mark the peak frequency and –6dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured were complete.

4.3 Test configuration

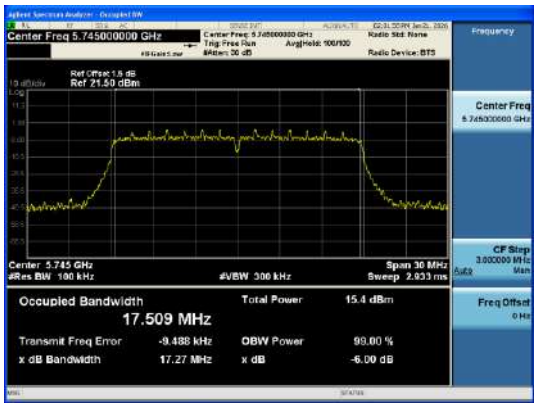


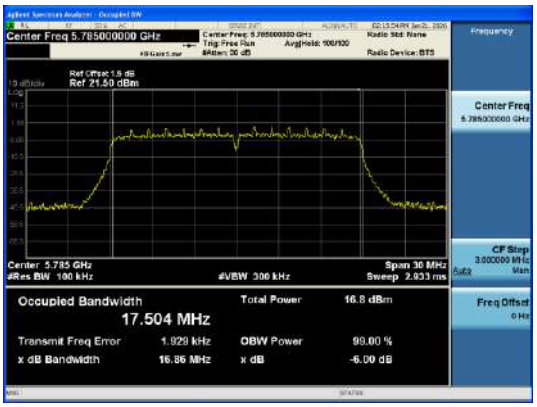
4.4 Test Data

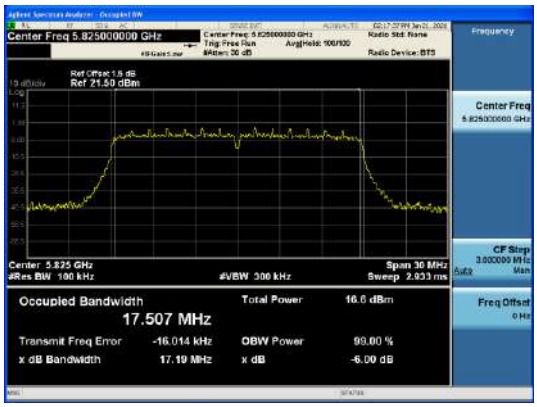
Test Mode : Continuous Transmitting	**Tester :** Hunter
Ambient Temperature : 23℃	**Relative Humidity :** 58%
Test Date : 2026/01/21	

Band	Mode	Frequency (MHz)	6dB Bandwidth (MHz)	99% OBW (MHz)	6dB BW Limit (kHz)
U-NII-3	11a	5180	17.27	17.51	> 500
		5200	16.86	17.50	> 500
		5240	17.19	17.51	> 500
	VHT20	5180	18.50	18.80	> 500
		5200	17.80	18.79	> 500
		5240	18.55	18.80	> 500
	VHT40	5755	37.66	37.68	> 500
		5795	36.39	37.67	> 500
	VHT80	5775	76.30	76.89	> 500

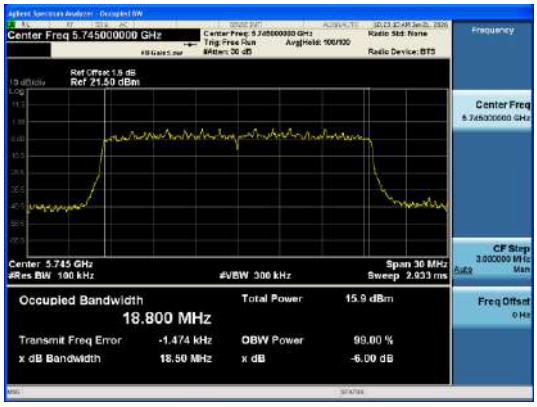
U-NII-3 a mode

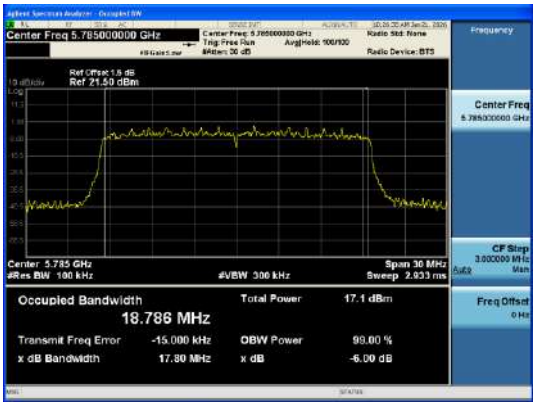


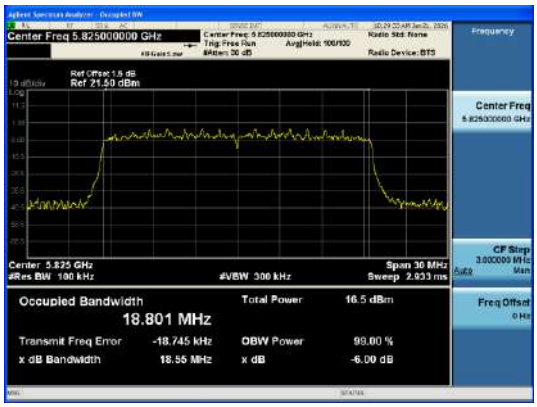




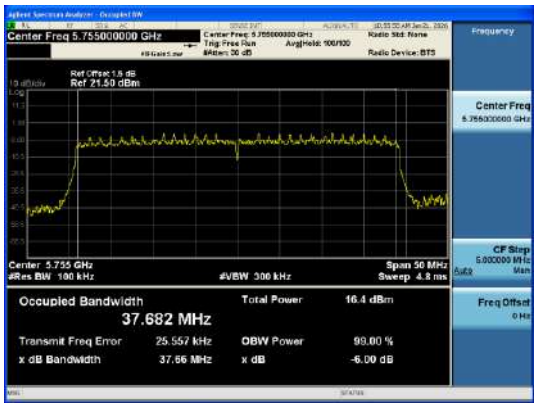
U-NII-3 VHT20 mode

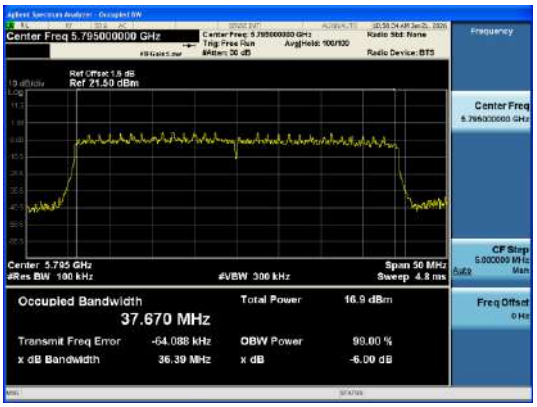




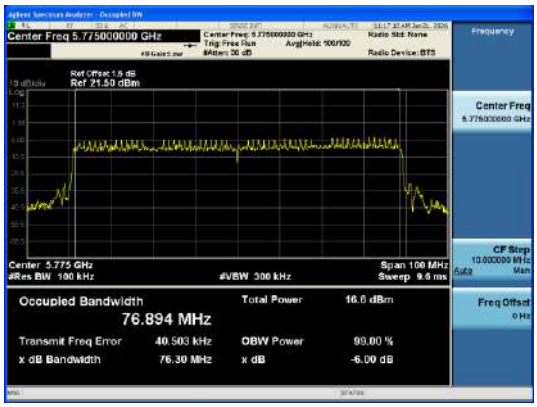


U-NII-3 VHT40 mode





U-NII-3 VHT80 mode



5 Undesirable Emission – Radiated Measurement

Result: Pass

5.1 Applied standard

According to FCC Part 15.407(b)
15.407(b)(1) Frequency Band 5150-5250 MHz
For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5250 MHz shall not exceed -27 dBm/MHz e.i.r.p.

15.407(b)(2) Frequency Band 5250-5350 MHz

1. For devices with both operating frequencies and channel bandwidths contained within the band 5250-5350 MHz, the device shall comply with the following:
2. All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. if the equipment is intended for outdoor use; or
3. All emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. and any emissions within the band 5150-5250 MHz shall meet the power spectral density limits of Section 15.407(a)(1)(ii). The device shall be labelled “for indoor use only.”

Additional requirements [Note: For FCC Part 15.407, specific elevation mask requirements for U-NII-2A are typically managed through TPC/EIRP limits; the following format is retained for undesirable emissions compliance]:
All emissions outside of the 5.25-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. Any emissions within the band 5150-5250 MHz shall meet the power spectral density limits of §15.407(a)(1).

15.407(b)(3) Frequency Bands 5470-5600 MHz and 5650-5725 MHz
Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of -27 dBm/MHz e.i.r.p. at 5850 MHz instead of 5725 MHz.

15.407(b)(4) Frequency Band 5725-5850 MHz Devices operating in the band 5725-5850 MHz shall comply with the following e.i.r.p. spectral density limits:

- 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

15.407(b)(5) Frequency Band 5850-5895 MHz For the band edge 5725 MHz and below, all devices shall be measured using peak detection and shall comply with the following e.i.r.p. spectral density limits:

- 27 dBm/MHz at frequencies from the 5725 MHz band edge decreasing linearly to 15.6 dBm/MHz at 5 MHz below the 5725 MHz band edge
- 15.6 dBm/MHz at 5 MHz below the 5725 MHz band edge decreasing linearly to 10 dBm/MHz at 25 MHz below the 5725 MHz band edge
- 10 dBm/MHz at 25 MHz below the 5725 MHz band edge decreasing linearly to -27 dBm/MHz at 75 MHz below the 5725 MHz band edge
- -27 dBm/MHz at frequencies more than 75 MHz below the 5725 MHz band edge

For the 5895 MHz band edge and above, all devices shall be measured using average detection and shall comply with the following e.i.r.p. spectral density limits:

- Fixed outdoor access points and fixed outdoor client devices shall not exceed -27 dBm/MHz e.i.r.p. spectral density at or above the 5895 MHz band edge.
- Indoor access points or indoor subordinate devices shall not exceed 15 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -7 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.
- Client devices shall not exceed -5 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -27 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.

§15.205- RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	([2])
13.36 - 13.41	322 - 335.4		

[1] Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

[2] Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209- RADIATED EMISSION LIMITS: GENERAL REQUIREMENTS

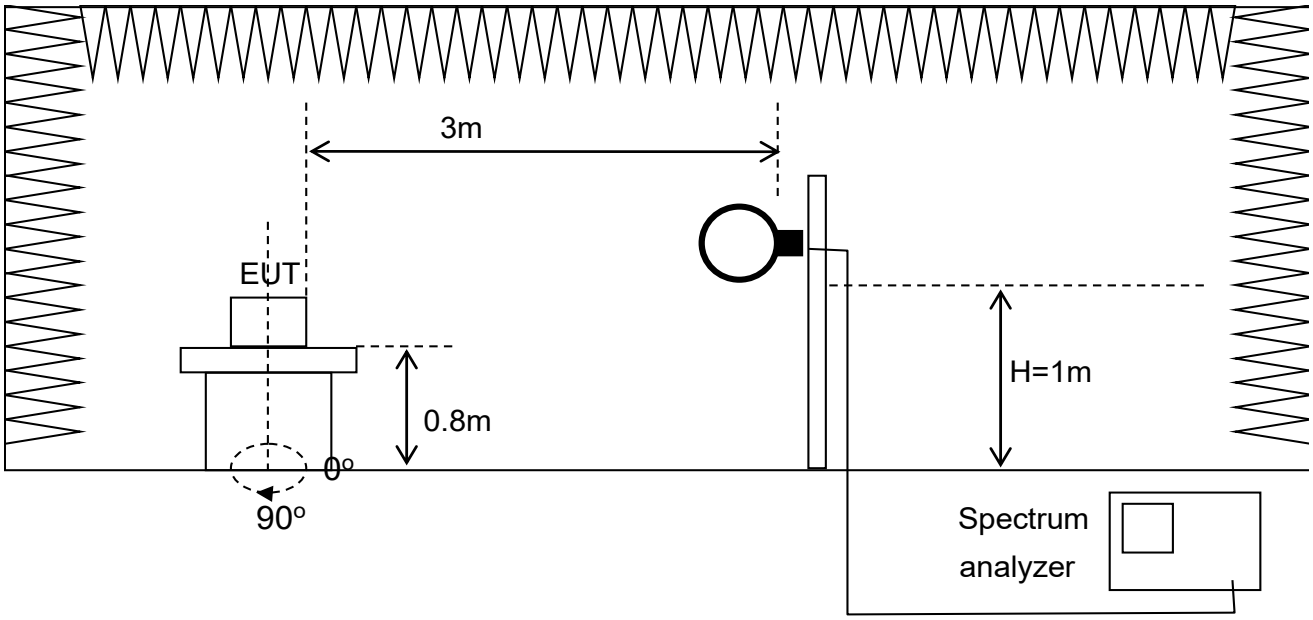
Frequency (MHz)	Measurement Distance (m)	Field Strength (uV/m)	Field Strength (dBuV/m)
30 – 88	3	100	40.0
88 – 216	3	150	43.5
216 – 960	3	200	46.0
above 960	3	500	54.0

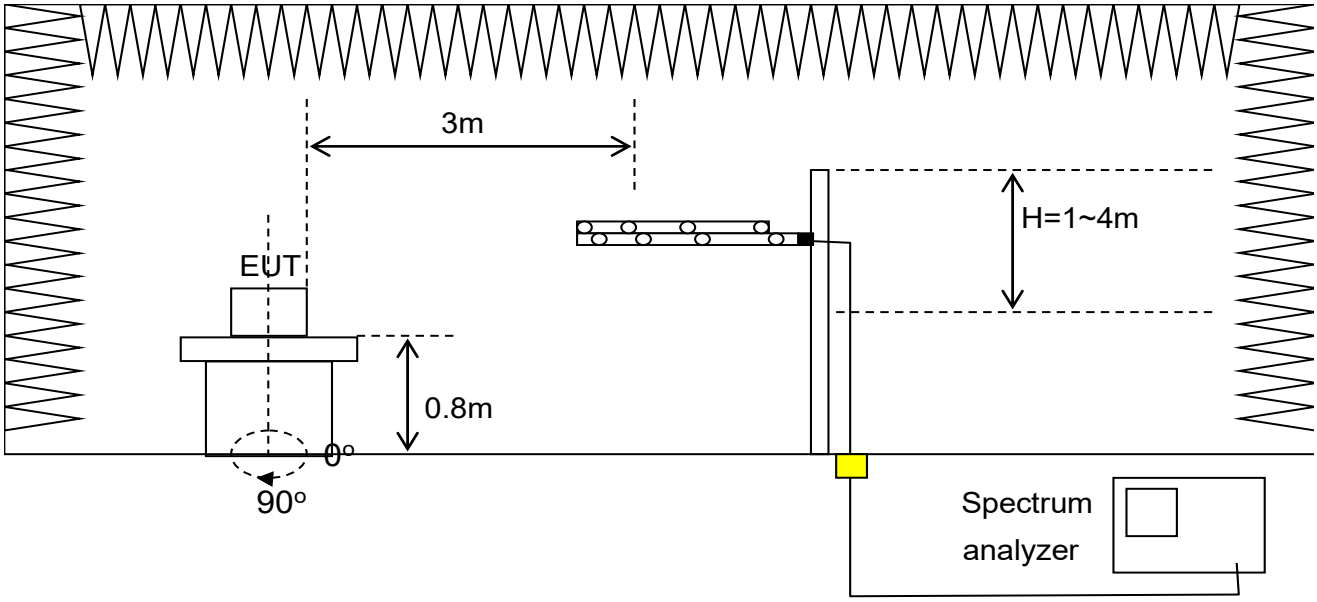
5.2 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until all frequency measured were complete.

5.3 Test configuration

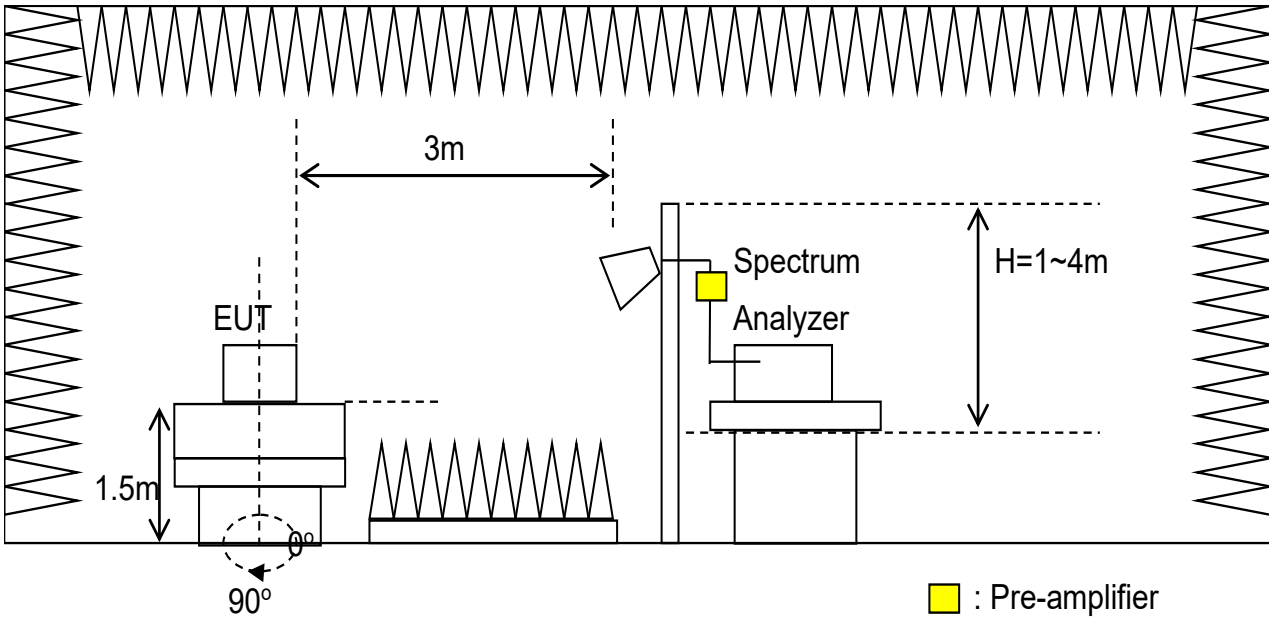
Below 1GHz





: Pre-amplifier

Above 1GHz



Note:
For the frequency range of 18 – 25 GHz, the measurement distance is 1m.
The formula for limit conversion is provided below:

$$E_{1m}[dB_\mu V/m] = E_{3m}[dB_\mu V/m] + 20log_{10}\frac{d_1}{d_2}$$

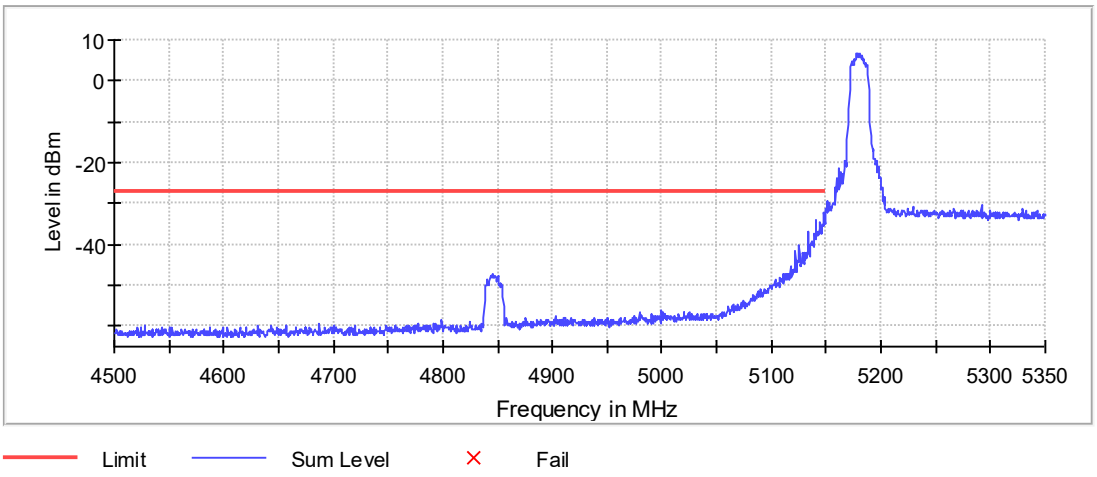
And all antennas utilized for frequencies above 1 GHz are directional in nature.

5.4 Test Data

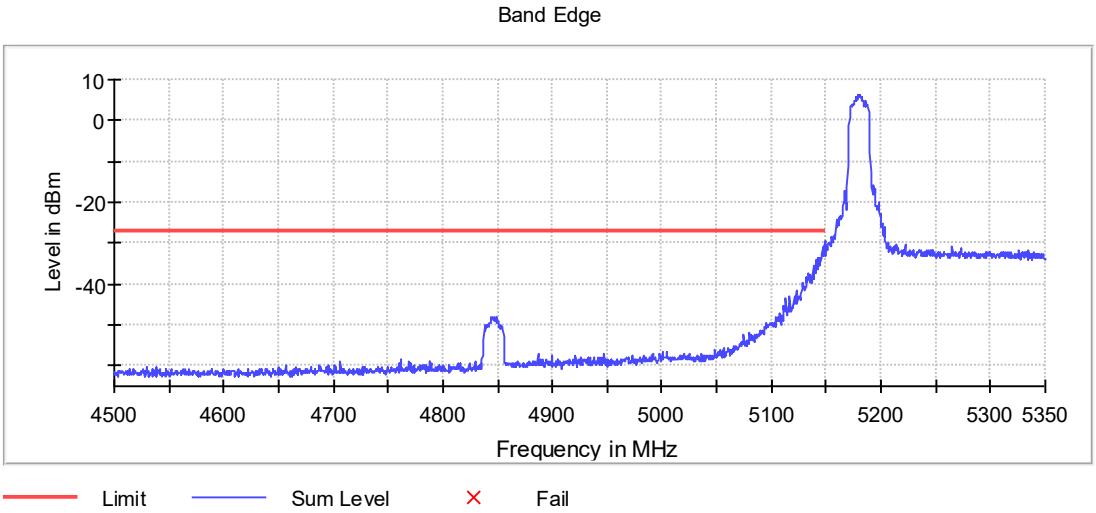
Conducted Band Edges Measurement

Test Mode : Continuous Transmitting	**Tester :** Hunter
Ambient Temperature : 23℃	**Relative Humidity :** 58%
Test Date : 2026/01/21	

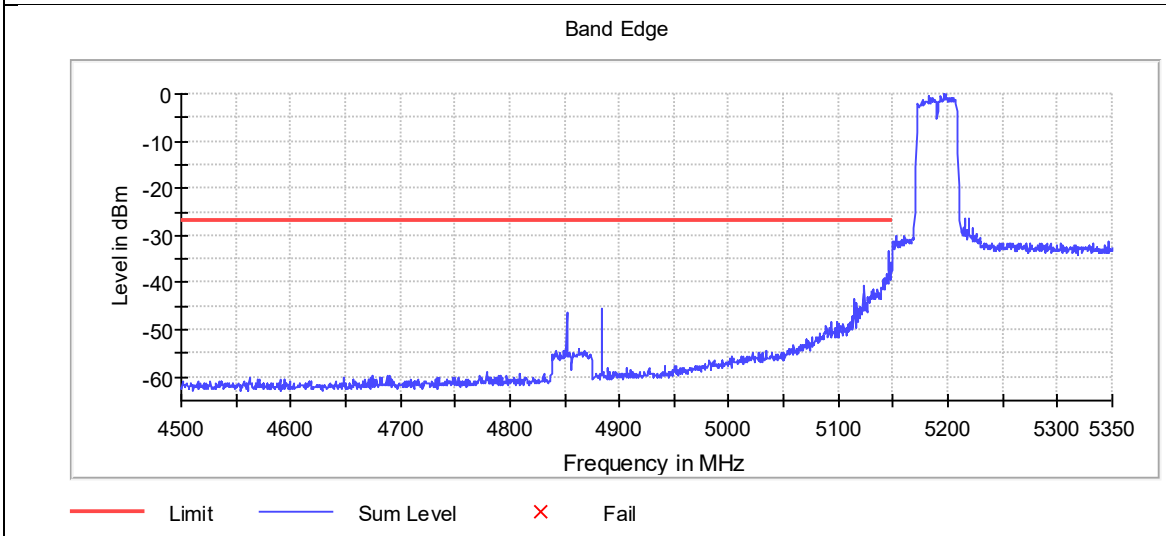
802.11a 5180 MHz



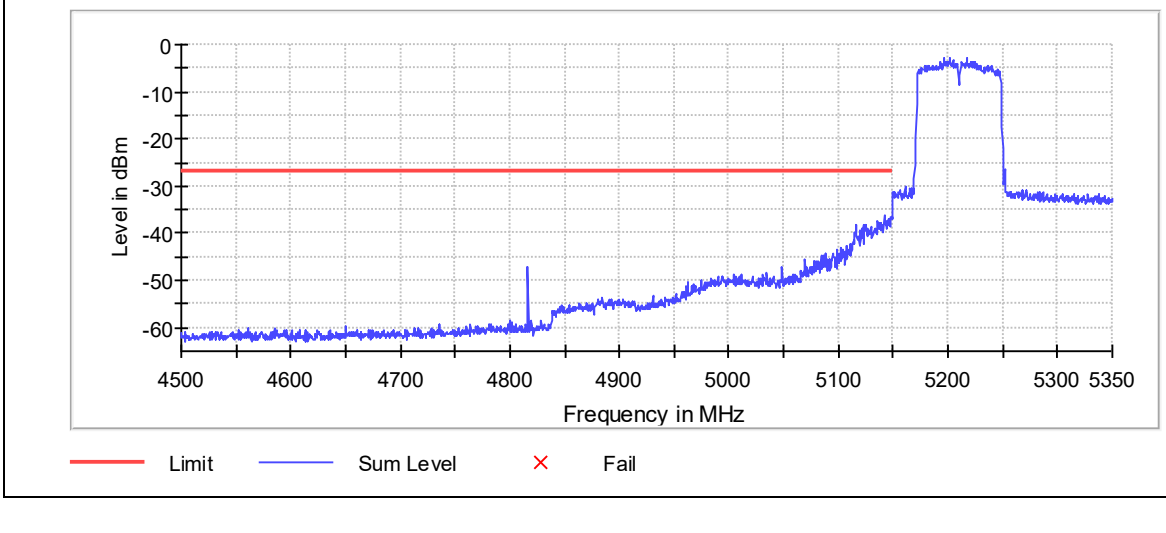
802.11ac VHT20 5180 MHz



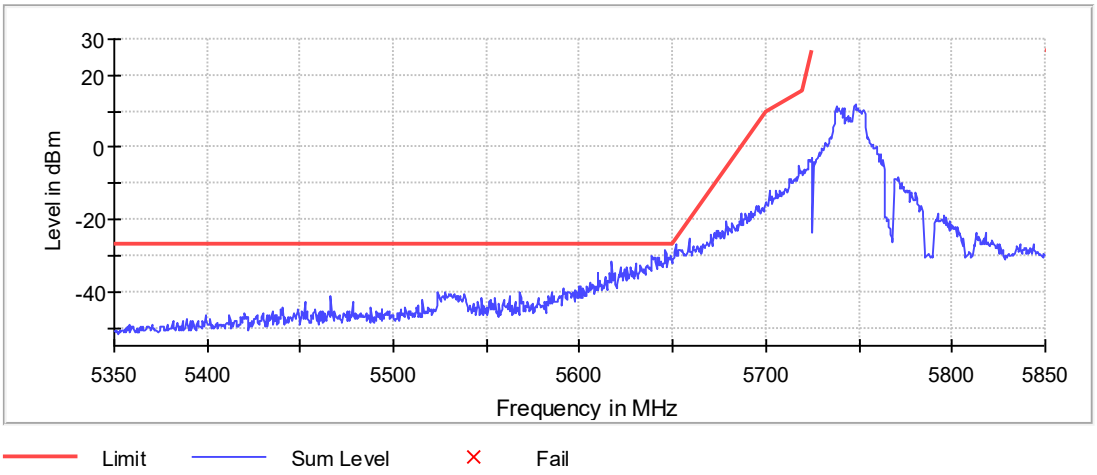
802.11ac VHT40 5190 MHz



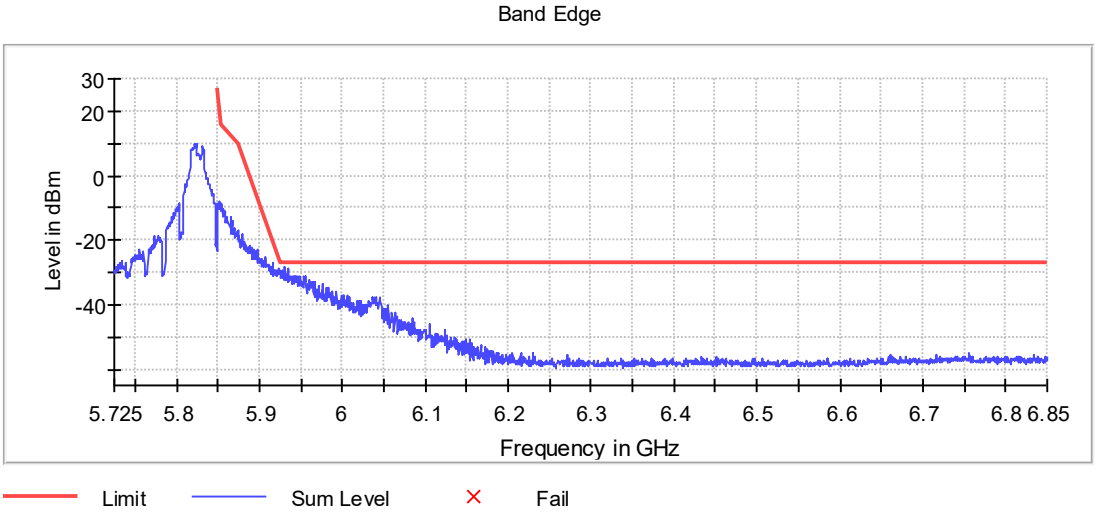
802.11ac VHT80 5210 MHz



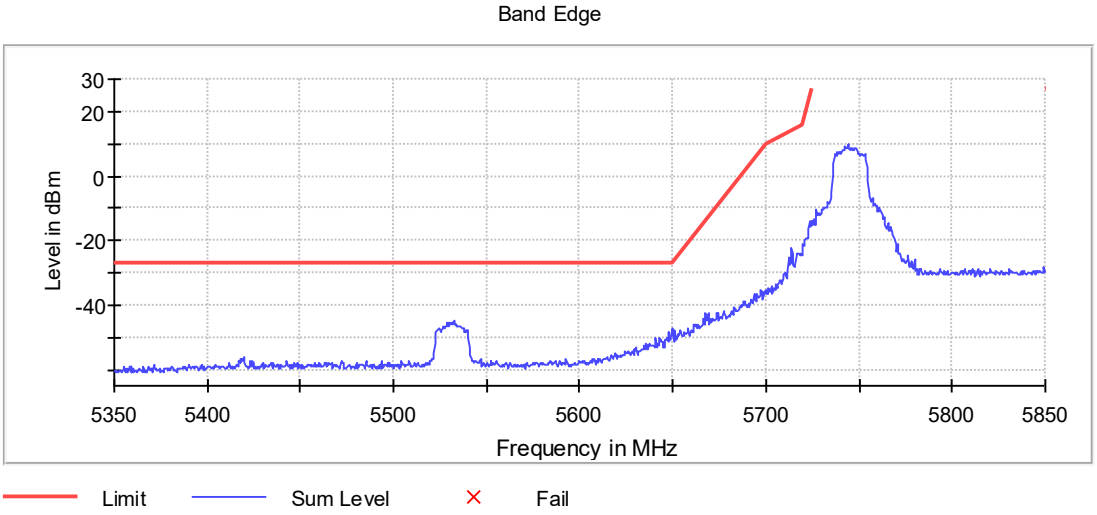
802.11a 5745 MHz



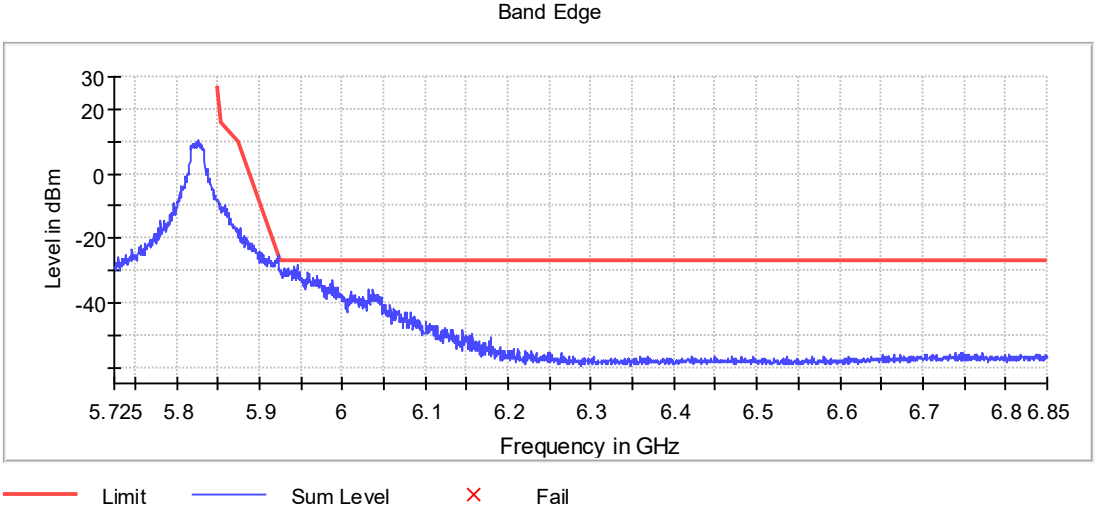
802.11a 5825 MHz



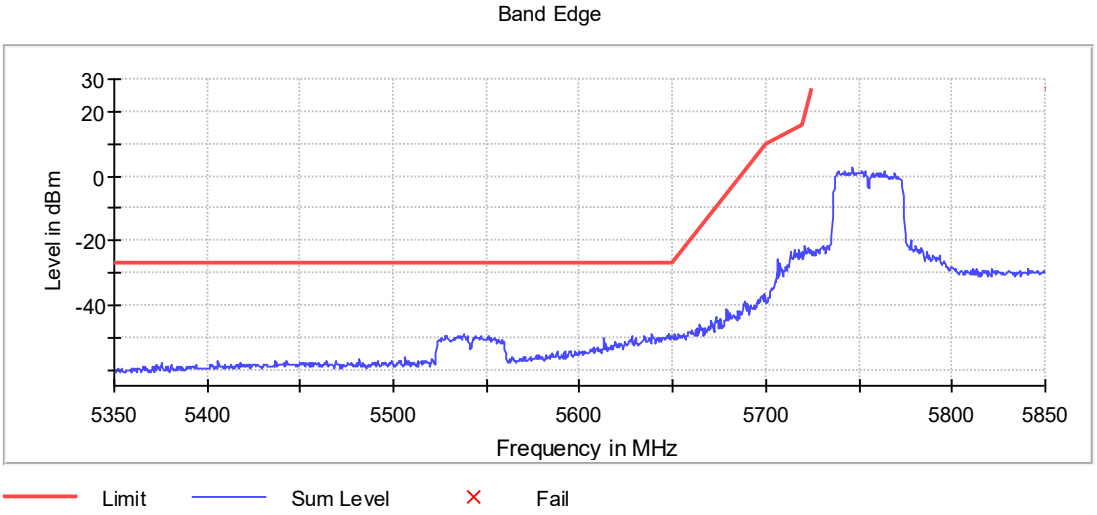
802.11ac VHT20 5745 MHz



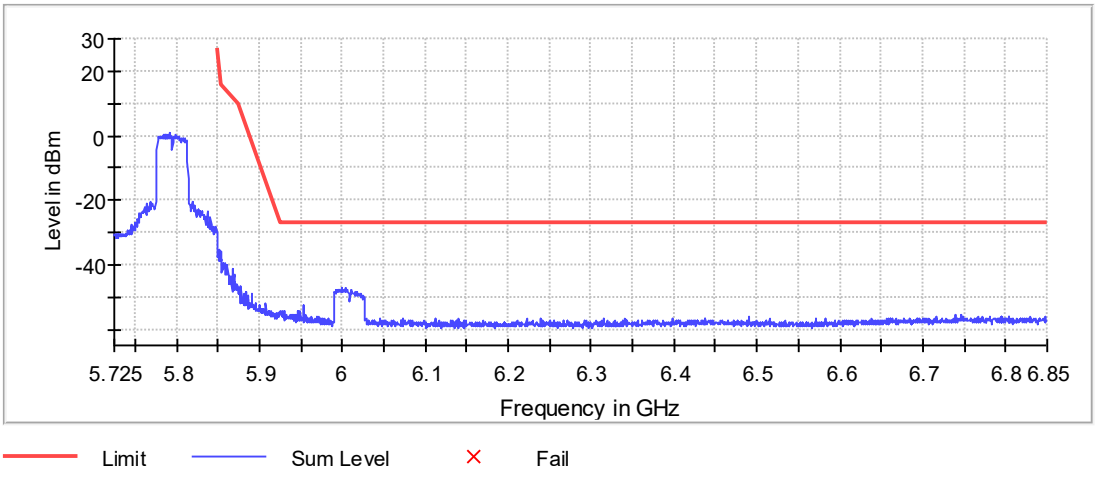
802.11ac VHT20 5825 MHz



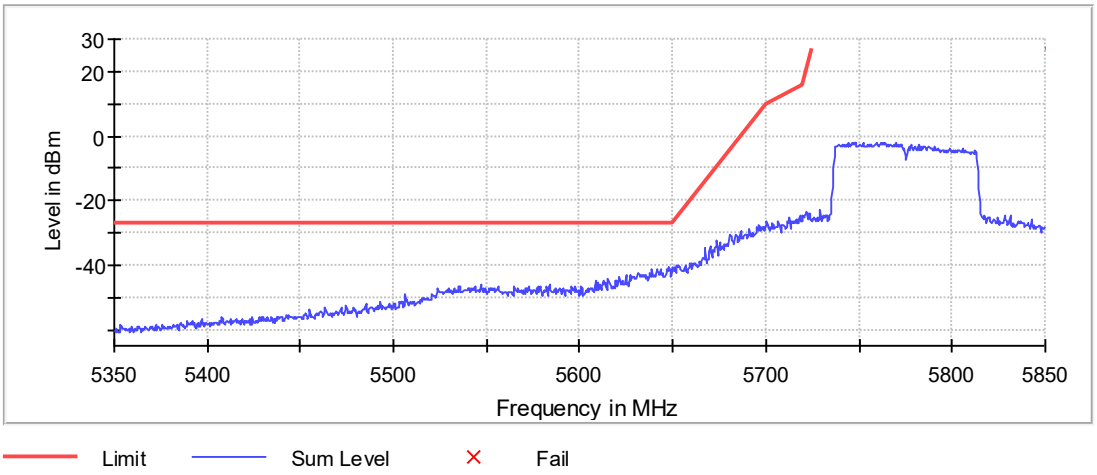
802.11ac VHT40 5755 MHz



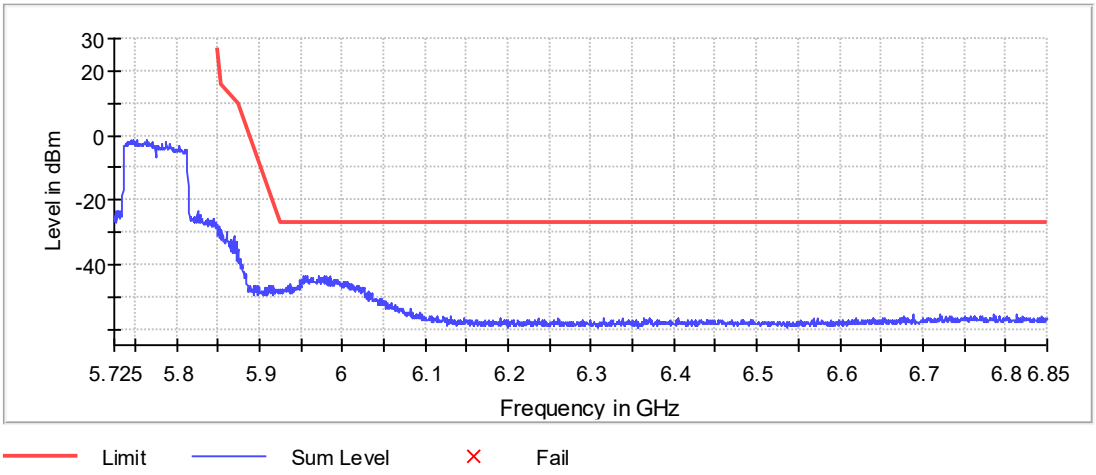
802.11ac VHT40 5795 MHz



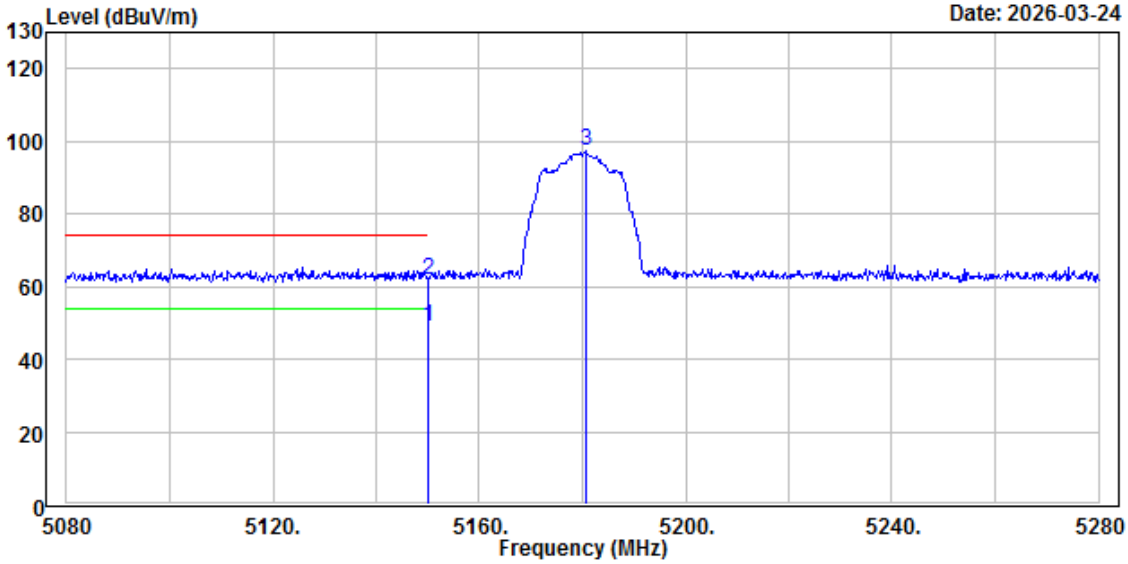
802.11ac VHT80 5775 MHz



802.11ac VHT80 5775 MHz



Test Mode:	Continuous Transmitting 802.11a 5180 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

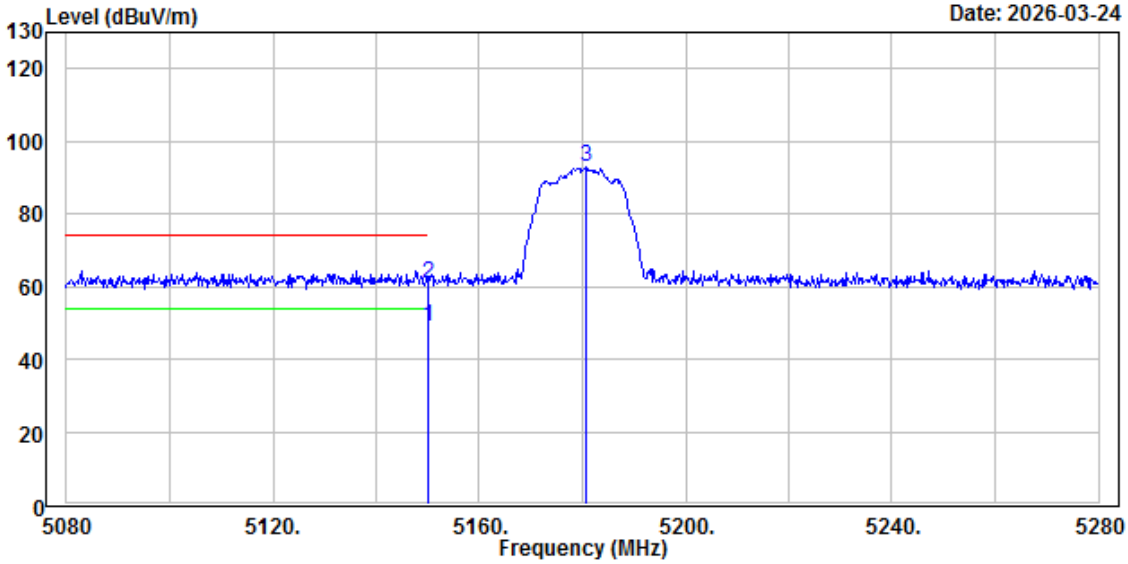



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5150.00	10.61	38.17	48.78	54.00	-5.22	HORIZONTAL	Average
2	5150.00	23.78	38.17	61.95	74.00	-12.05	HORIZONTAL	Peak
3	5180.60	59.06	38.19	97.25	F	--	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11a 5180 MHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

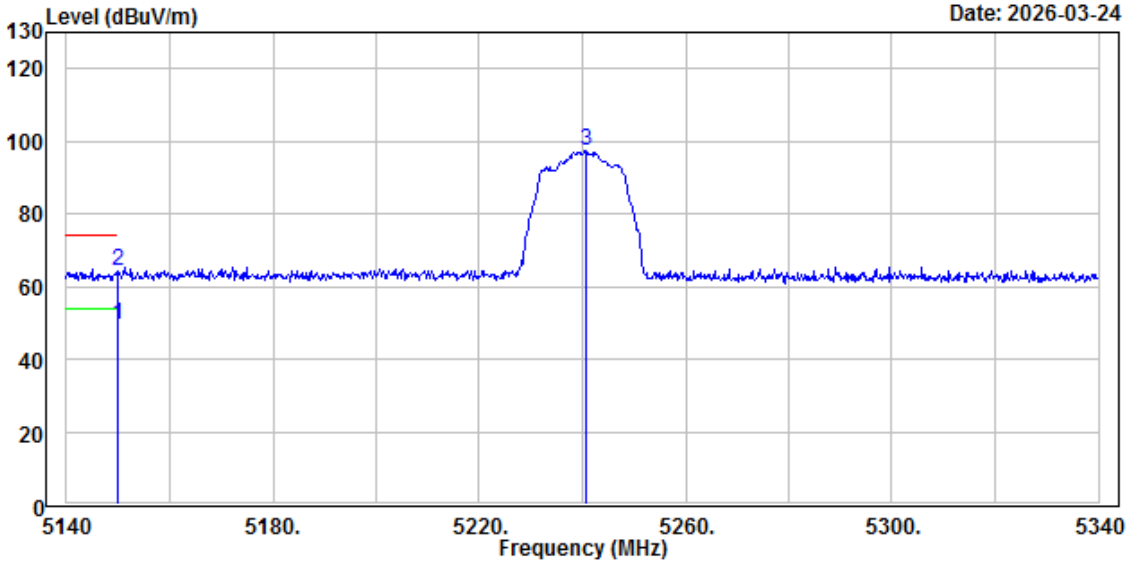



```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5150.00	10.78	38.17	48.95	54.00	-5.05	VERTICAL	Average
2	5150.00	22.75	38.17	60.92	74.00	-13.08	VERTICAL	Peak
3	5180.60	54.73	38.19	92.92	F	--	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11a 5240 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

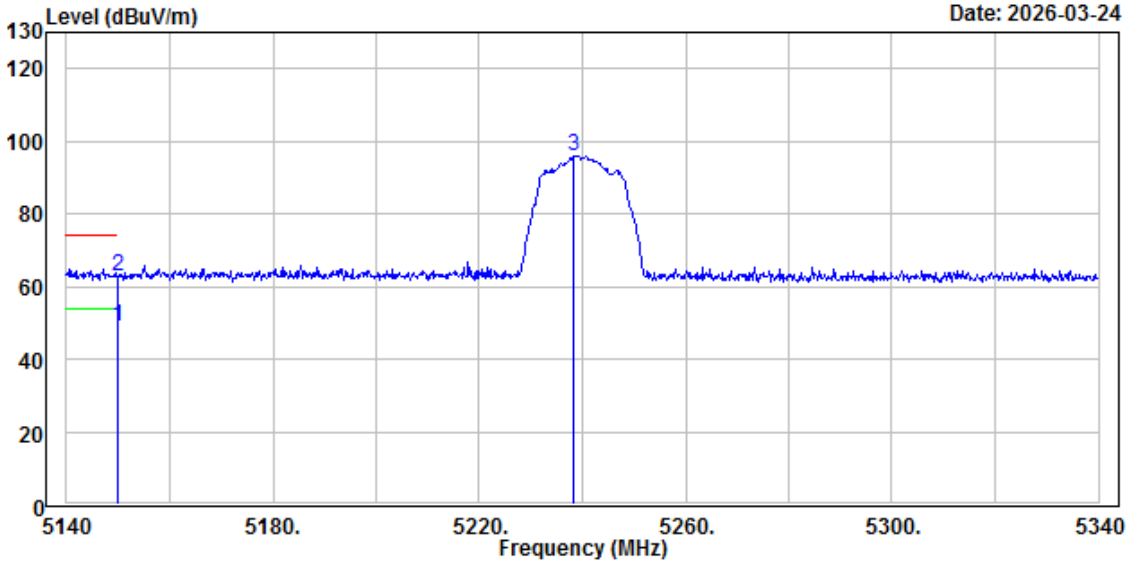



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	2463.20	62.26	35.09	97.35	F	--	HORIZONTAL	Peak
2	2483.60	16.13	35.19	51.32	54.00	-2.68	HORIZONTAL	Average
3	2483.60	30.00	35.19	65.19	74.00	-8.81	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11a 5240 MHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

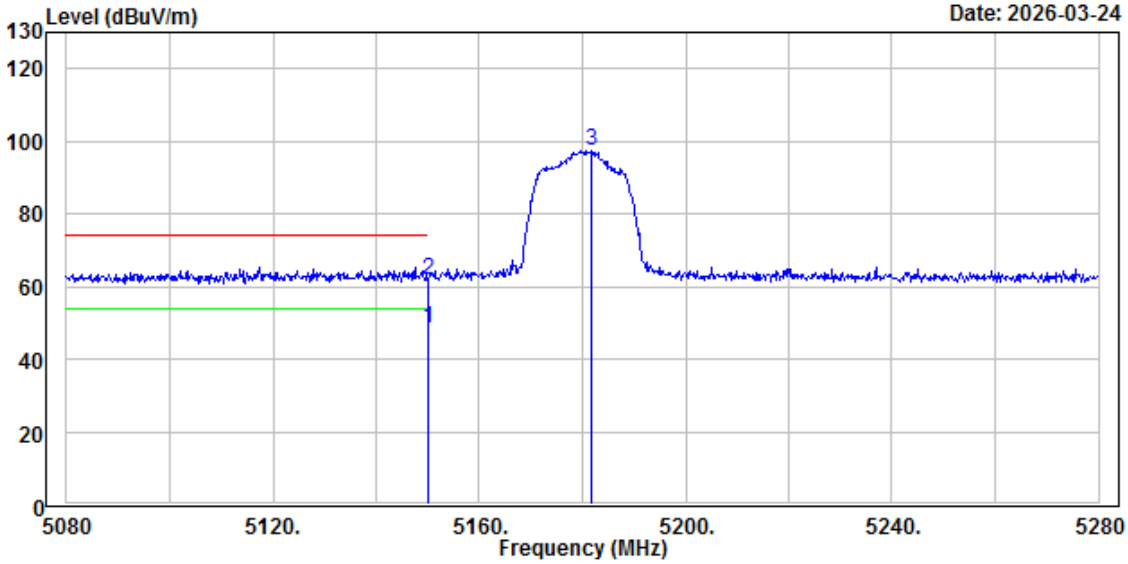



```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5150.00	10.94	38.17	49.11	54.00	-4.89	VERTICAL	Average
2	5150.00	24.46	38.17	62.63	74.00	-11.37	VERTICAL	Peak
3	5238.40	57.94	38.17	96.11	F	--	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT20 5180 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

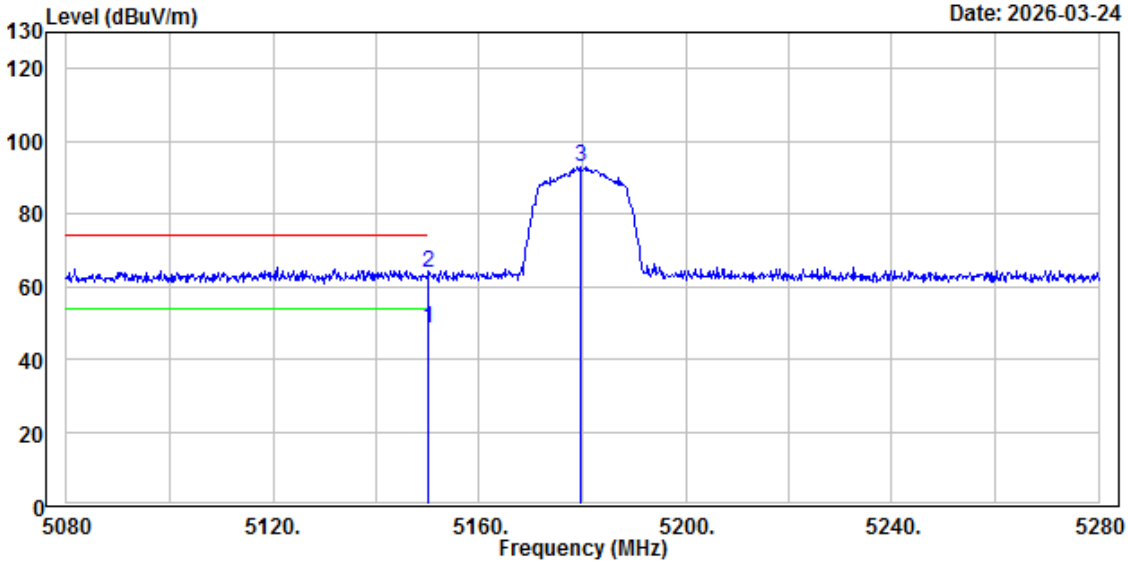



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5150.00	10.48	38.17	48.65	54.00	-5.35	HORIZONTAL	Average
2	5150.00	23.80	38.17	61.97	74.00	-12.03	HORIZONTAL	Peak
3	5181.60	59.29	38.19	97.48	F	--	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT20 5180 MHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

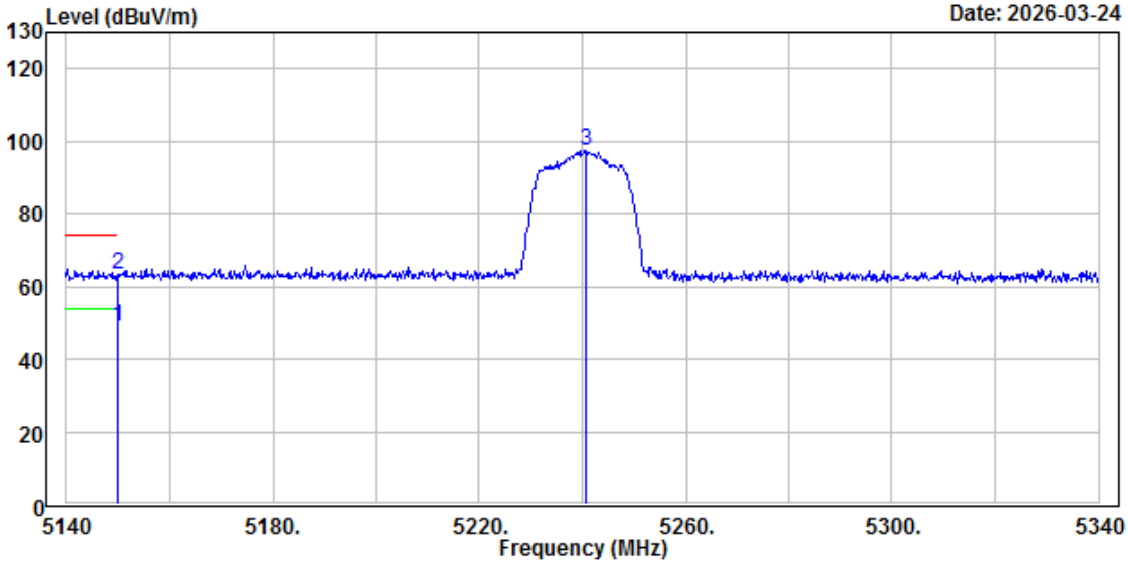



```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5150.00	10.49	38.17	48.66	54.00	-5.34	VERTICAL	Average
2	5150.00	25.50	38.17	63.67	74.00	-10.33	VERTICAL	Peak
3	5179.60	54.77	38.19	92.96	F	--	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT20 5240 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

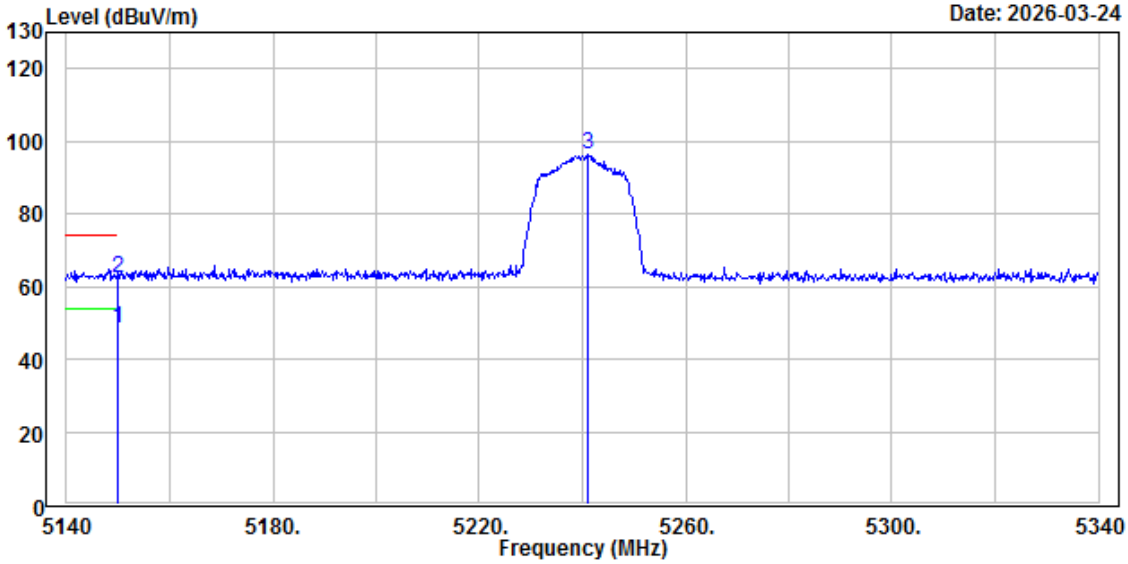



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5150.00	10.53	38.17	48.70	54.00	-5.30	HORIZONTAL	Average
2	5150.00	25.05	38.17	63.22	74.00	-10.78	HORIZONTAL	Peak
3	5240.60	59.29	38.17	97.46	F	--	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT20 5240 MHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

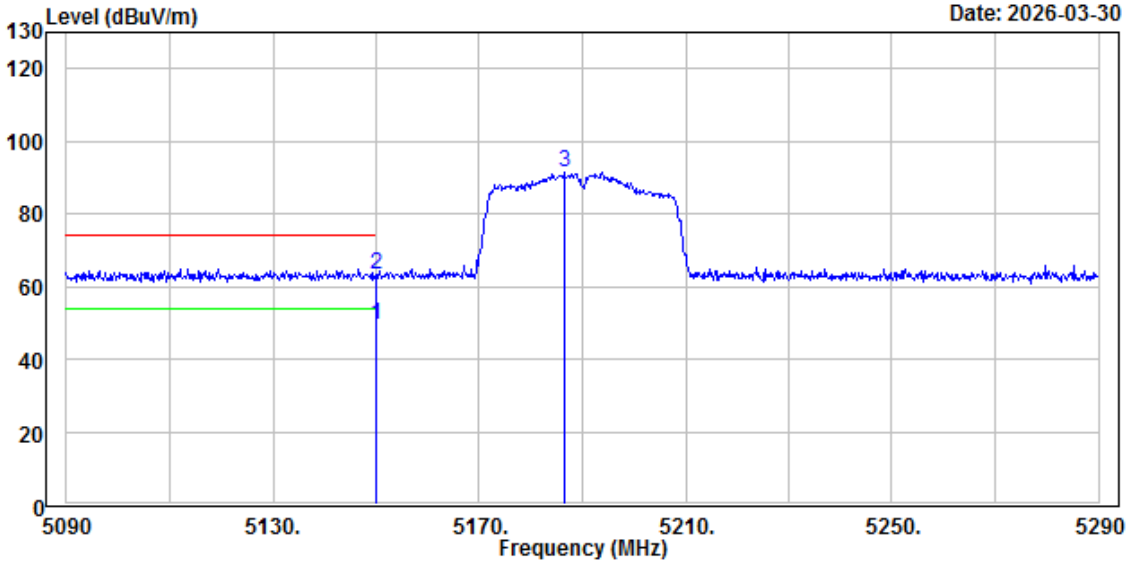



```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5150.00	10.44	38.17	48.61	54.00	-5.39	VERTICAL	Average
2	5150.00	24.18	38.17	62.35	74.00	-11.65	VERTICAL	Peak
3	5241.20	58.08	38.17	96.25	F	--	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT40 5190 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

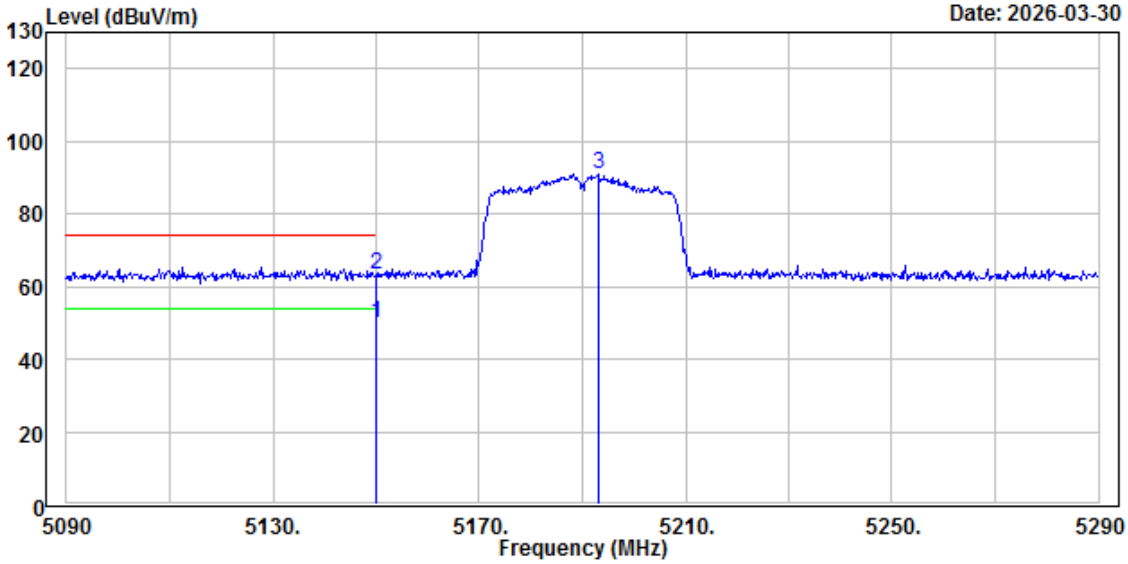



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5150.00	11.47	38.17	49.64	54.00	-4.36	HORIZONTAL	Average
2	5150.00	25.04	38.17	63.21	74.00	-10.79	HORIZONTAL	Peak
3	5186.40	53.12	38.19	91.31	F	--	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT40 5190 MHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

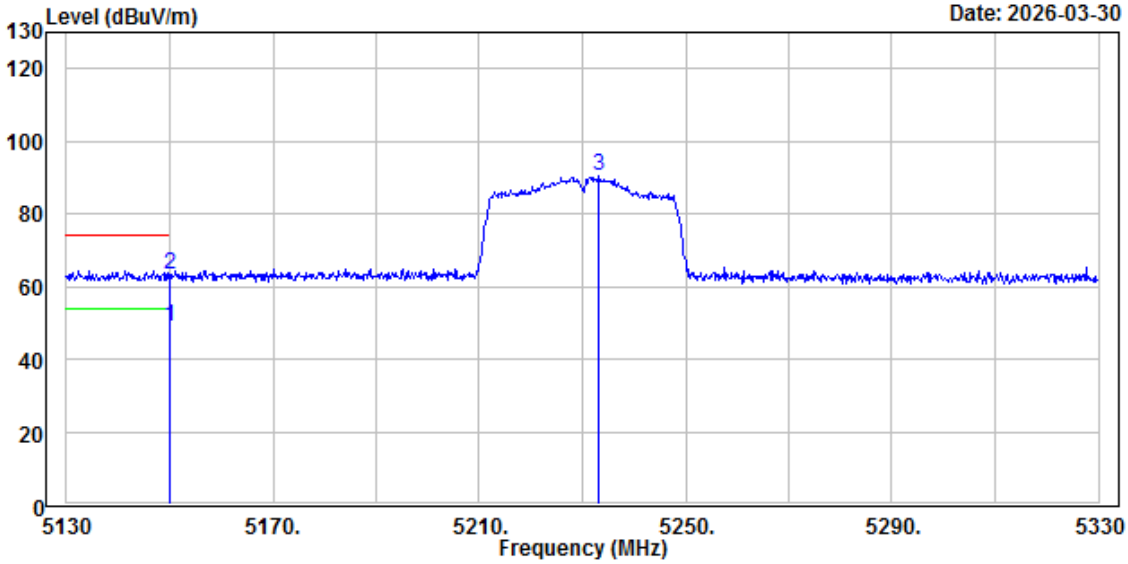



```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5150.00	11.72	38.17	49.89	54.00	-4.11	VERTICAL	Average
2	5150.00	25.02	38.17	63.19	74.00	-10.81	VERTICAL	Peak
3	5193.00	52.70	38.20	90.90	F	--	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT40 5230 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

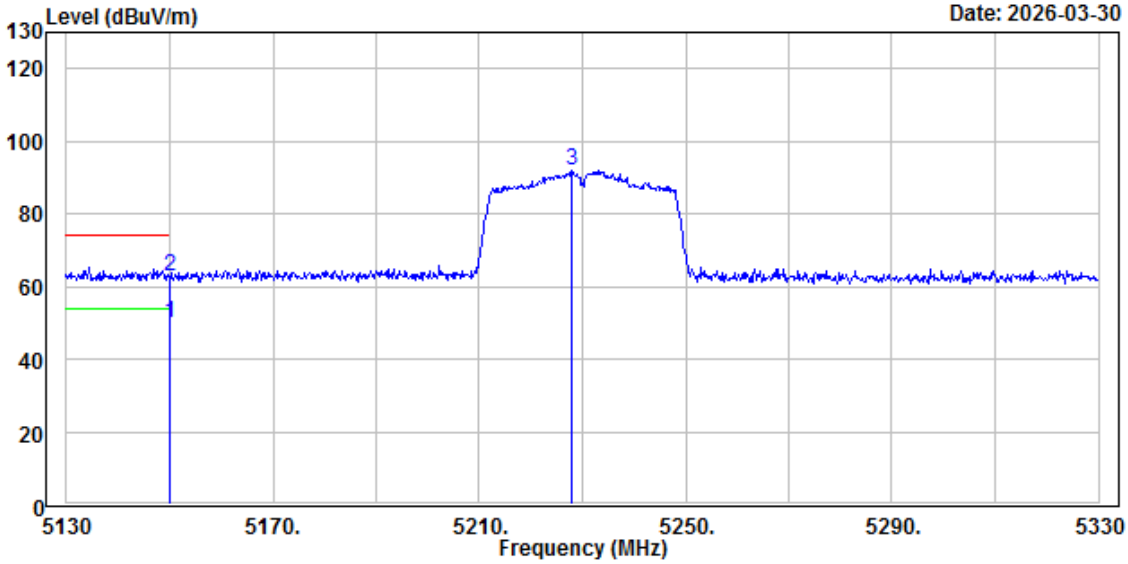



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5150.00	10.62	38.17	48.79	54.00	-5.21	HORIZONTAL	Average
2	5150.00	25.20	38.17	63.37	74.00	-10.63	HORIZONTAL	Peak
3	5233.00	52.18	38.17	90.35	F	--	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT40 5230 MHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

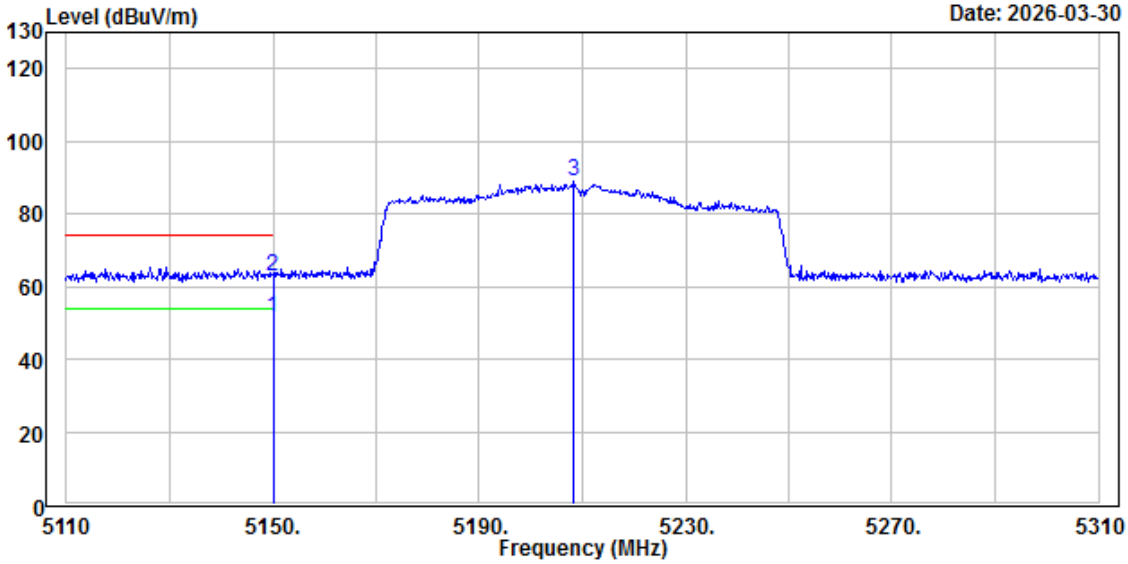



```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5150.00	11.64	38.17	49.81	54.00	-4.19	VERTICAL	Average
2	5150.00	24.50	38.17	62.67	74.00	-11.33	VERTICAL	Peak
3	5227.80	53.75	38.17	91.92	F	--	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT80 5210 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

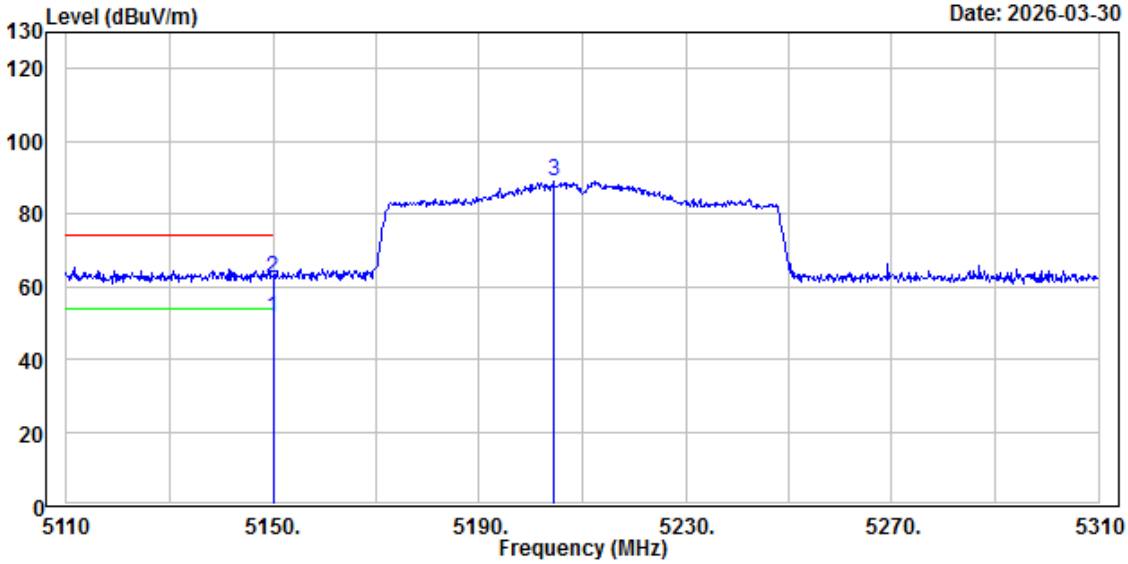



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5150.00	13.36	38.17	51.53	54.00	-2.47	HORIZONTAL	Average
2	5150.00	24.55	38.17	62.72	74.00	-11.28	HORIZONTAL	Peak
3	5208.20	50.59	38.19	88.78	F	--	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT80 5210 MHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

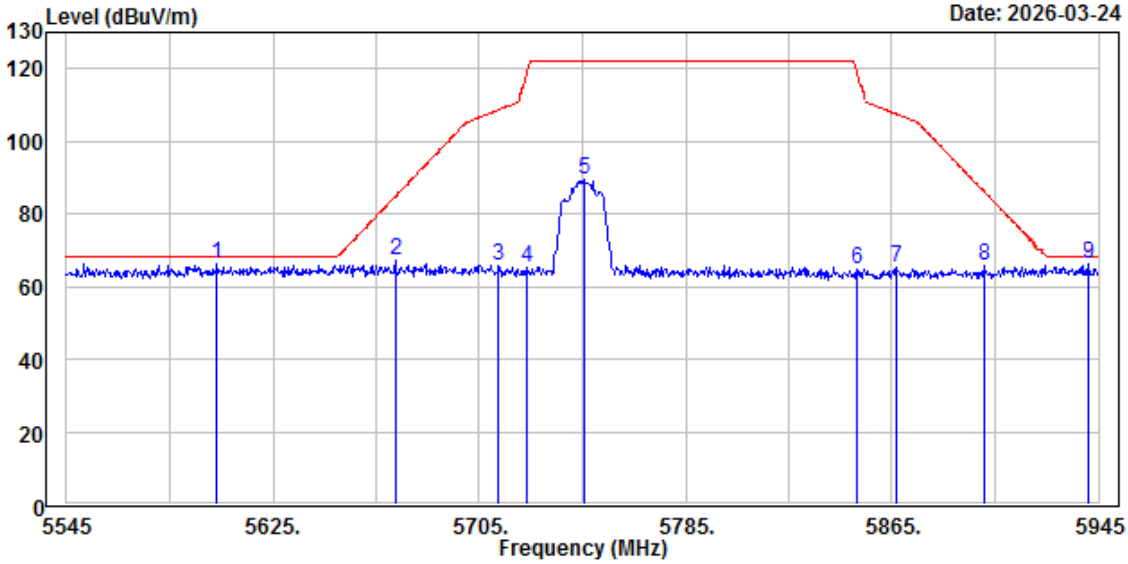



```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5150.00	13.11	38.17	51.28	54.00	-2.72	VERTICAL	Average
2	5150.00	23.90	38.17	62.07	74.00	-11.93	VERTICAL	Peak
3	5204.40	50.99	38.20	89.19	F	--	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11a 5745 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

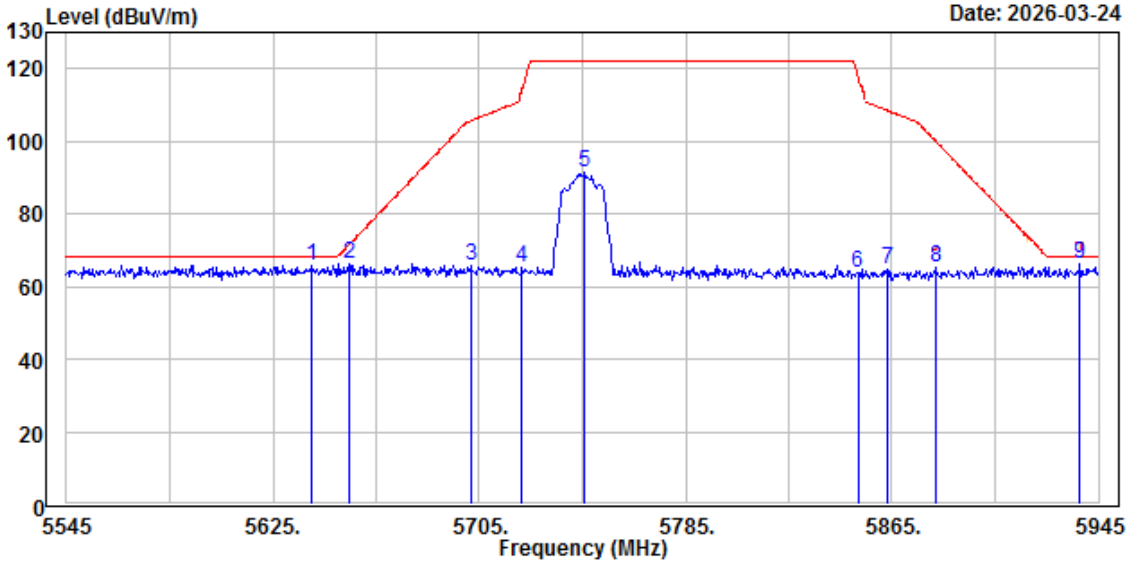



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5603.40	27.62	38.56	66.18	68.20	-2.02	HORIZONTAL	Peak
2	5672.60	28.16	38.85	67.01	84.92	-17.91	HORIZONTAL	Peak
3	5712.60	26.99	38.98	65.97	108.73	-42.76	HORIZONTAL	Peak
4	5723.40	26.36	38.98	65.34	118.55	-53.21	HORIZONTAL	Peak
5	5745.40	50.28	39.00	89.28	F	--	HORIZONTAL	Peak
6	5851.40	25.59	39.05	64.64	119.01	-54.37	HORIZONTAL	Peak
7	5866.60	26.00	39.08	65.08	107.55	-42.47	HORIZONTAL	Peak
8	5900.60	26.50	39.16	65.66	86.26	-20.60	HORIZONTAL	Peak
9	5941.00	26.88	39.34	66.22	68.20	-1.98	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11a 5745 MHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

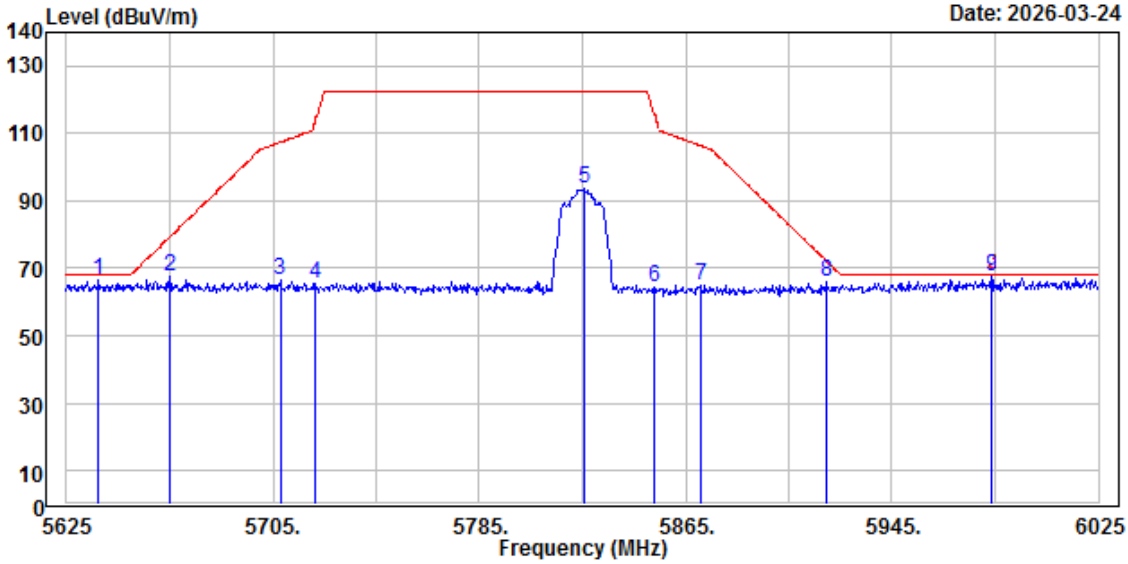



```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5640.20	27.18	38.72	65.90	68.20	-2.30	VERTICAL	Peak
2	5654.60	27.69	38.78	66.47	71.60	-5.13	VERTICAL	Peak
3	5701.80	27.00	38.97	65.97	105.70	-39.73	VERTICAL	Peak
4	5721.40	26.30	38.98	65.28	113.99	-48.71	VERTICAL	Peak
5	5745.80	52.20	39.00	91.20	F	--	VERTICAL	Peak
6	5851.80	24.93	39.05	63.98	118.10	-54.12	VERTICAL	Peak
7	5863.00	25.66	39.08	64.74	108.56	-43.82	VERTICAL	Peak
8	5881.80	26.30	39.12	65.42	100.17	-34.75	VERTICAL	Peak
9	5937.80	26.81	39.32	66.13	68.20	-2.07	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11a 5825 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

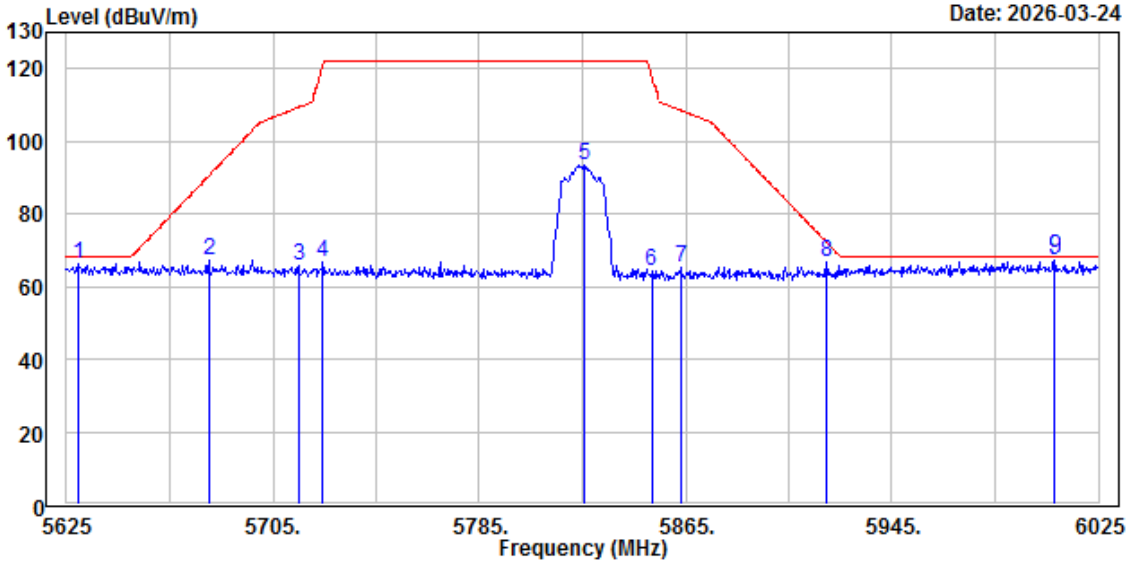



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5637.40	27.95	38.71	66.66	68.20	-1.54	HORIZONTAL	Peak
2	5665.00	29.03	38.82	67.85	79.30	-11.45	HORIZONTAL	Peak
3	5707.80	27.65	38.97	66.62	107.38	-40.76	HORIZONTAL	Peak
4	5721.40	26.62	38.98	65.60	113.99	-48.39	HORIZONTAL	Peak
5	5825.80	54.56	39.09	93.65	F	--	HORIZONTAL	Peak
6	5853.00	25.30	39.06	64.36	115.36	-51.00	HORIZONTAL	Peak
7	5870.60	25.76	39.09	64.85	106.43	-41.58	HORIZONTAL	Peak
8	5919.80	26.61	39.25	65.86	72.05	-6.19	HORIZONTAL	Peak
9	5983.80	27.89	39.46	67.35	68.20	-0.85	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11a 5825 MHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

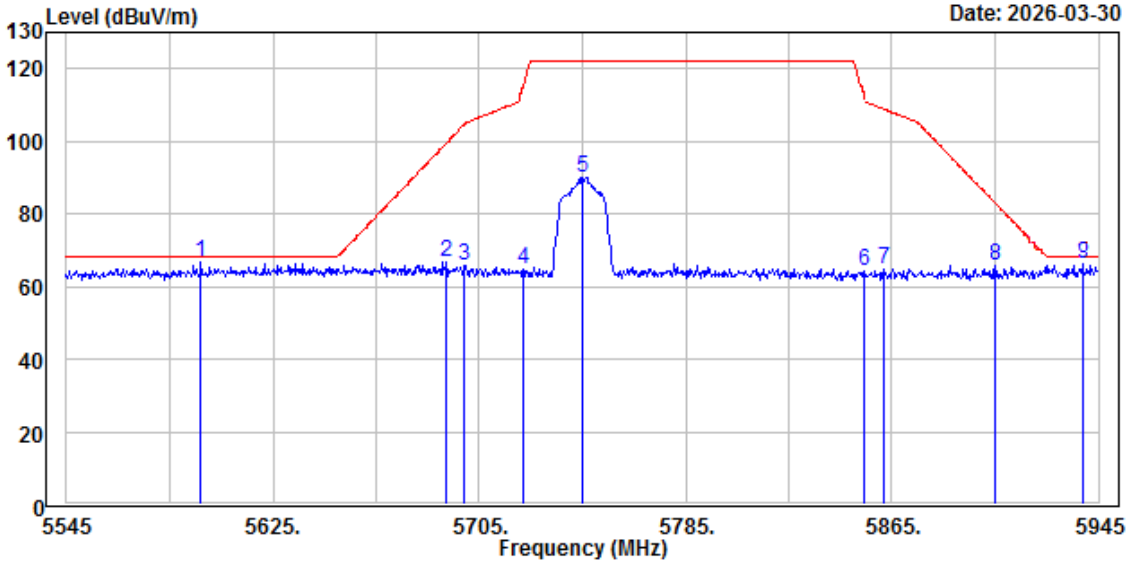



```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5629.40	27.60	38.67	66.27	68.20	-1.93	VERTICAL	Peak
2	5680.20	28.30	38.88	67.18	90.55	-23.37	VERTICAL	Peak
3	5715.00	26.89	38.98	65.87	109.40	-43.53	VERTICAL	Peak
4	5724.20	27.53	38.98	66.51	120.38	-53.87	VERTICAL	Peak
5	5825.80	54.50	39.09	93.59	F	--	VERTICAL	Peak
6	5851.80	25.39	39.05	64.44	118.10	-53.66	VERTICAL	Peak
7	5863.00	26.15	39.08	65.23	108.56	-43.33	VERTICAL	Peak
8	5919.40	27.30	39.25	66.55	72.34	-5.79	VERTICAL	Peak
9	6007.80	27.63	39.51	67.14	68.20	-1.06	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT20 5745 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

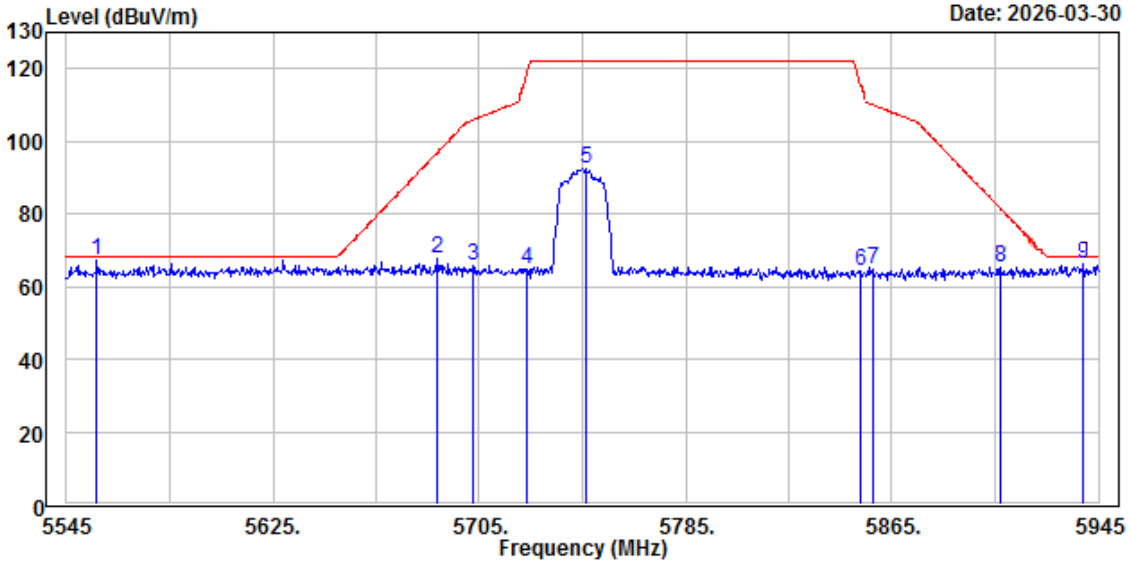



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5597.00	28.14	38.55	66.69	68.20	-1.51	HORIZONTAL	Peak
2	5692.20	27.90	38.94	66.84	99.43	-32.59	HORIZONTAL	Peak
3	5699.40	26.81	38.97	65.78	104.76	-38.98	HORIZONTAL	Peak
4	5722.20	25.58	38.98	64.56	115.82	-51.26	HORIZONTAL	Peak
5	5745.00	51.08	39.00	90.08	F	--	HORIZONTAL	Peak
6	5854.20	25.15	39.06	64.21	112.62	-48.41	HORIZONTAL	Peak
7	5861.80	25.92	39.07	64.99	108.90	-43.91	HORIZONTAL	Peak
8	5905.00	26.49	39.18	65.67	83.00	-17.33	HORIZONTAL	Peak
9	5939.00	27.01	39.33	66.34	68.20	-1.86	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT20 5745 MHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

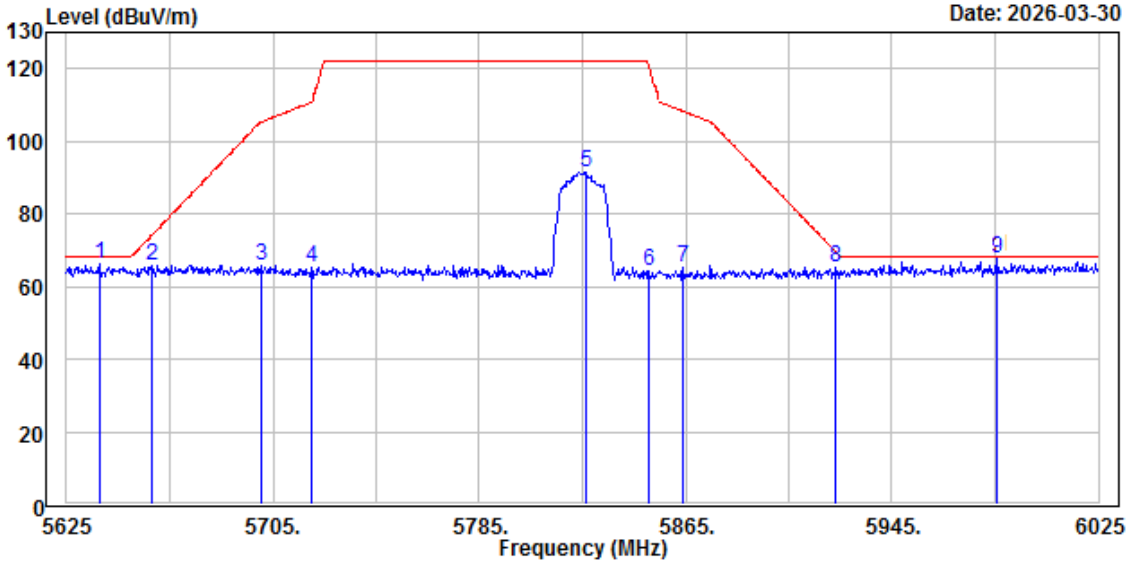



```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5556.60	28.73	38.59	67.32	68.20	-0.88	VERTICAL	Peak
2	5688.60	28.59	38.92	67.51	96.76	-29.25	VERTICAL	Peak
3	5702.60	26.87	38.97	65.84	105.93	-40.09	VERTICAL	Peak
4	5723.40	25.96	38.98	64.94	118.55	-53.61	VERTICAL	Peak
5	5746.60	53.51	39.00	92.51	F	--	VERTICAL	Peak
6	5853.00	25.13	39.06	64.19	115.36	-51.17	VERTICAL	Peak
7	5857.40	25.83	39.06	64.89	110.13	-45.24	VERTICAL	Peak
8	5907.00	26.26	39.20	65.46	81.52	-16.06	VERTICAL	Peak
9	5939.40	26.73	39.33	66.06	68.20	-2.14	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT20 5825 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

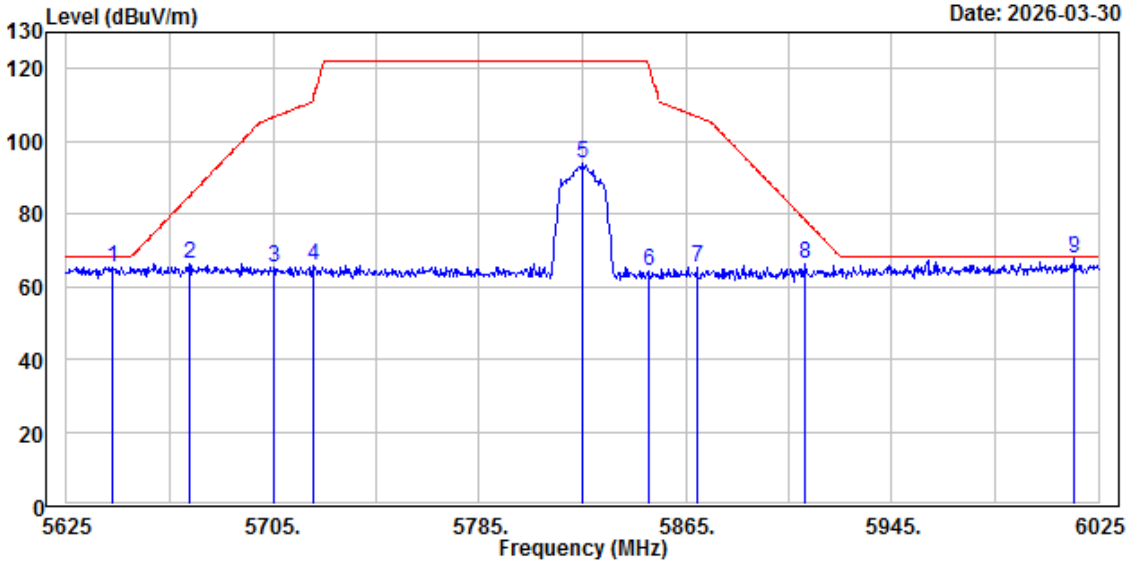



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5637.80	27.66	38.71	66.37	68.20	-1.83	HORIZONTAL	Peak
2	5657.80	27.12	38.79	65.91	73.97	-8.06	HORIZONTAL	Peak
3	5700.20	26.99	38.97	65.96	105.26	-39.30	HORIZONTAL	Peak
4	5719.80	26.12	38.98	65.10	110.74	-45.64	HORIZONTAL	Peak
5	5826.60	52.29	39.09	91.38	F	--	HORIZONTAL	Peak
6	5851.00	25.16	39.05	64.21	119.92	-55.71	HORIZONTAL	Peak
7	5864.20	25.93	39.08	65.01	108.22	-43.21	HORIZONTAL	Peak
8	5923.40	26.23	39.26	65.49	69.38	-3.89	HORIZONTAL	Peak
9	5985.40	28.08	39.46	67.54	68.20	-0.66	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT20 5825 MHz		
Polarization:	Vertical	Tester:	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	57% RH

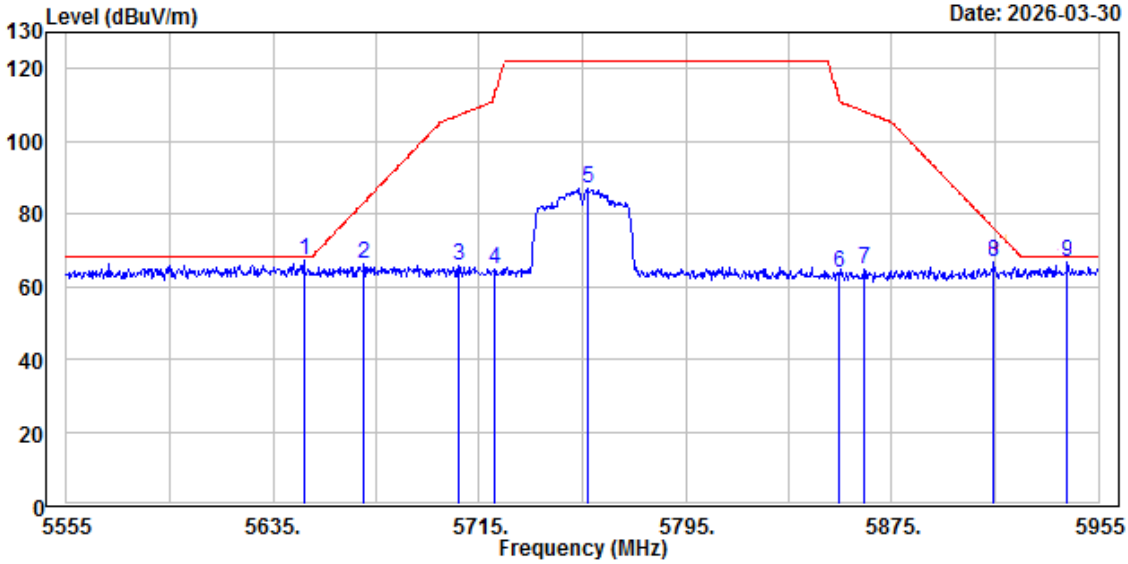



```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5642.60	26.58	38.73	65.31	68.20	-2.89	VERTICAL	Peak
2	5672.60	27.30	38.85	66.15	84.92	-18.77	VERTICAL	Peak
3	5705.40	26.52	38.97	65.49	106.71	-41.22	VERTICAL	Peak
4	5721.00	26.75	38.98	65.73	113.08	-47.35	VERTICAL	Peak
5	5825.00	54.60	39.09	93.69	F	--	VERTICAL	Peak
6	5851.00	25.34	39.05	64.39	119.92	-55.53	VERTICAL	Peak
7	5869.40	26.22	39.09	65.31	106.77	-41.46	VERTICAL	Peak
8	5911.00	27.24	39.21	66.45	78.56	-12.11	VERTICAL	Peak
9	6015.80	28.30	39.52	67.82	68.20	-0.38	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT40 5755 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

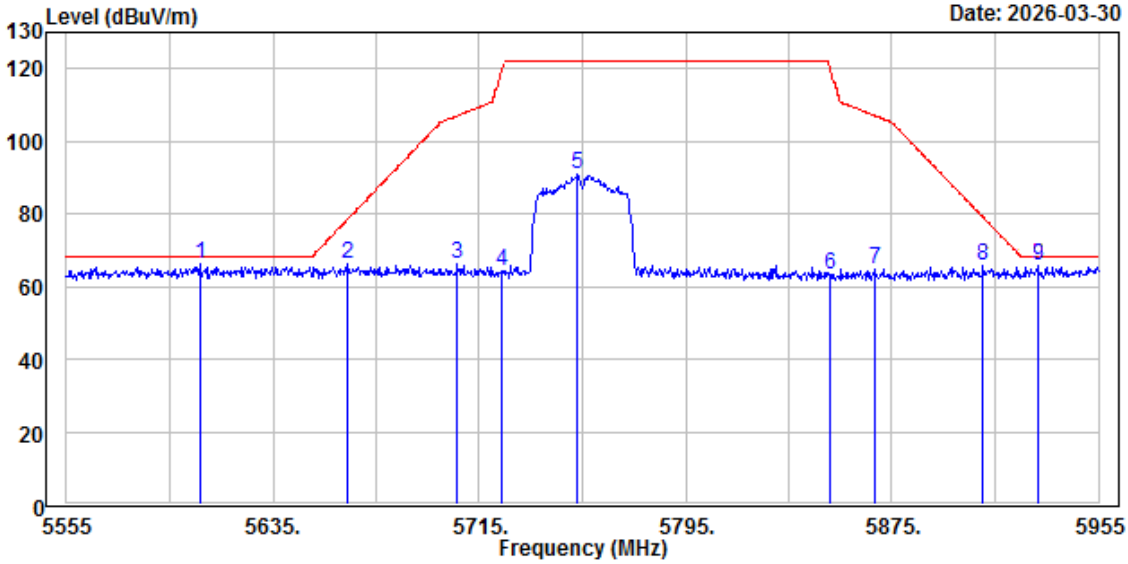



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5647.00	28.37	38.75	67.12	68.20	-1.08	HORIZONTAL	Peak
2	5670.20	27.23	38.84	66.07	83.15	-17.08	HORIZONTAL	Peak
3	5707.00	26.57	38.97	65.54	107.16	-41.62	HORIZONTAL	Peak
4	5721.00	25.81	38.98	64.79	113.08	-48.29	HORIZONTAL	Peak
5	5757.00	47.99	39.01	87.00	F	--	HORIZONTAL	Peak
6	5854.60	24.79	39.06	63.85	111.71	-47.86	HORIZONTAL	Peak
7	5864.20	25.64	39.08	64.72	108.22	-43.50	HORIZONTAL	Peak
8	5914.60	27.27	39.23	66.50	75.90	-9.40	HORIZONTAL	Peak
9	5943.00	27.28	39.35	66.63	68.20	-1.57	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT40 5755 MHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

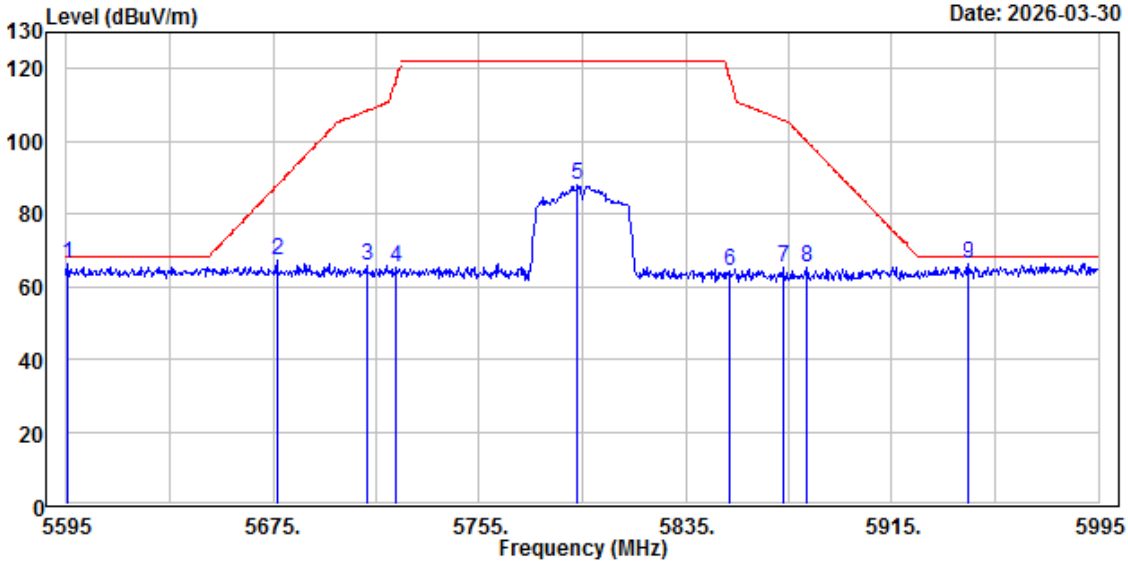



```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5606.60	27.56	38.58	66.14	68.20	-2.06	VERTICAL	Peak
2	5664.20	27.45	38.82	66.27	78.71	-12.44	VERTICAL	Peak
3	5706.60	27.48	38.97	66.45	107.05	-40.60	VERTICAL	Peak
4	5723.40	25.40	38.98	64.38	118.55	-54.17	VERTICAL	Peak
5	5753.00	51.86	39.01	90.87	F	--	VERTICAL	Peak
6	5851.00	24.45	39.05	63.50	119.92	-56.42	VERTICAL	Peak
7	5868.20	25.63	39.09	64.72	107.10	-42.38	VERTICAL	Peak
8	5910.20	26.41	39.21	65.62	79.15	-13.53	VERTICAL	Peak
9	5931.40	26.41	39.30	65.71	68.20	-2.49	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT40 5795 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

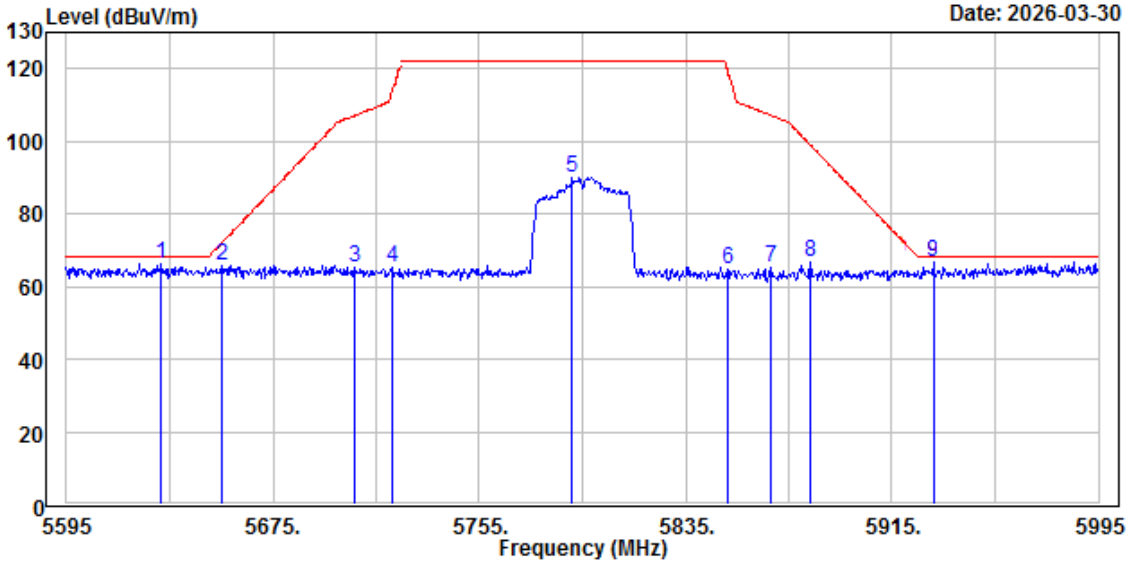



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5595.40	27.65	38.55	66.20	68.20	-2.00	HORIZONTAL	Peak
2	5676.60	28.43	38.87	67.30	87.88	-20.58	HORIZONTAL	Peak
3	5711.40	26.79	38.98	65.77	108.39	-42.62	HORIZONTAL	Peak
4	5723.00	26.50	38.98	65.48	117.64	-52.16	HORIZONTAL	Peak
5	5793.00	48.70	39.11	87.81	F	--	HORIZONTAL	Peak
6	5851.80	25.00	39.05	64.05	118.10	-54.05	HORIZONTAL	Peak
7	5872.60	25.96	39.10	65.06	105.87	-40.81	HORIZONTAL	Peak
8	5882.20	26.36	39.12	65.48	99.87	-34.39	HORIZONTAL	Peak
9	5944.60	27.09	39.36	66.45	68.20	-1.75	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT40 5795 MHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

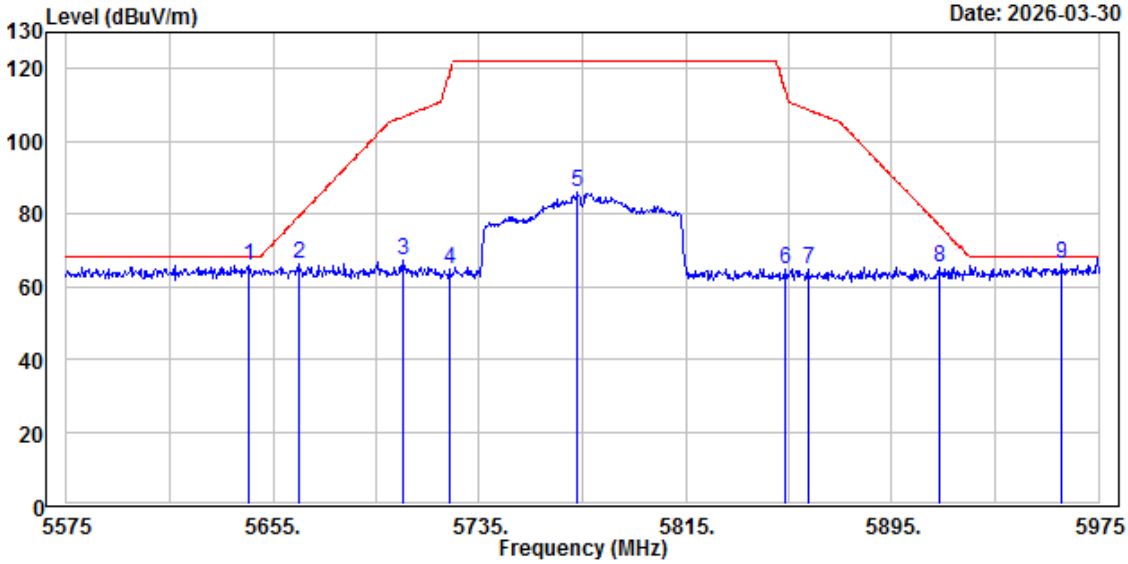



```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5631.80	27.69	38.68	66.37	68.20	-1.83	VERTICAL	Peak
2	5655.00	27.17	38.78	65.95	71.90	-5.95	VERTICAL	Peak
3	5706.60	26.34	38.97	65.31	107.05	-41.74	VERTICAL	Peak
4	5721.00	26.43	38.98	65.41	113.08	-47.67	VERTICAL	Peak
5	5791.00	50.89	39.10	89.99	F	--	VERTICAL	Peak
6	5851.40	25.70	39.05	64.75	119.01	-54.26	VERTICAL	Peak
7	5868.20	25.99	39.09	65.08	107.10	-42.02	VERTICAL	Peak
8	5883.40	27.73	39.13	66.86	98.98	-32.12	VERTICAL	Peak
9	5931.00	27.49	39.29	66.78	68.20	-1.42	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT80 5775 MHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH

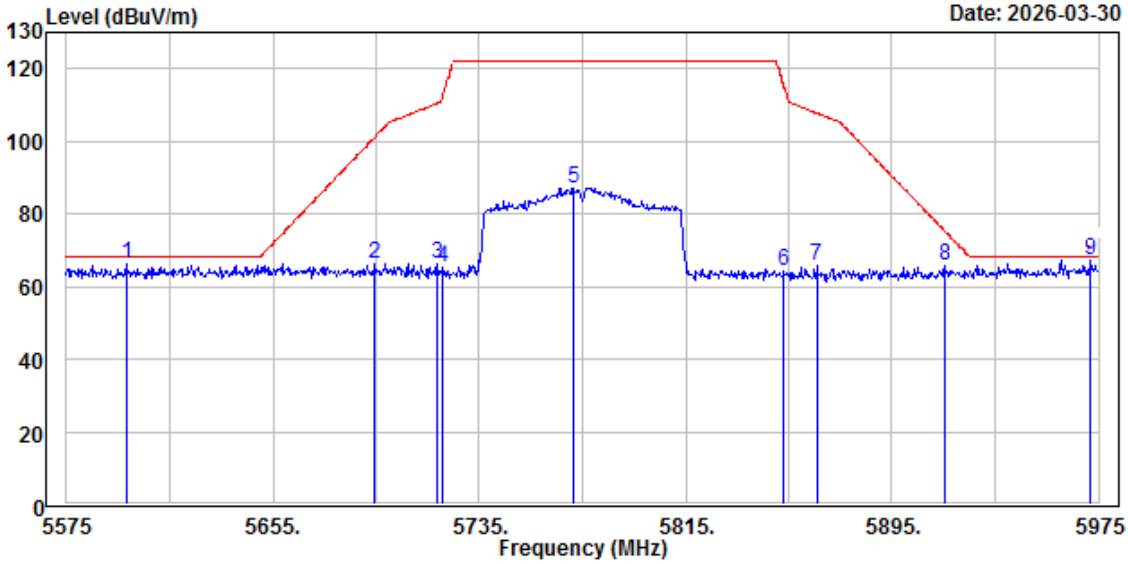



```
Condition       : 3m EMCO_3117_82847 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5645.40	27.24	38.74	65.98	68.20	-2.22	HORIZONTAL	Peak
2	5665.00	27.56	38.82	66.38	79.30	-12.92	HORIZONTAL	Peak
3	5705.40	28.30	38.97	67.27	106.71	-39.44	HORIZONTAL	Peak
4	5723.80	25.63	38.98	64.61	119.46	-54.85	HORIZONTAL	Peak
5	5773.00	46.83	39.06	85.89	F	--	HORIZONTAL	Peak
6	5853.40	25.50	39.06	64.56	114.45	-49.89	HORIZONTAL	Peak
7	5862.60	25.64	39.08	64.72	108.67	-43.95	HORIZONTAL	Peak
8	5913.40	26.09	39.22	65.31	76.78	-11.47	HORIZONTAL	Peak
9	5961.00	26.62	39.40	66.02	68.20	-2.18	HORIZONTAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

Test Mode:	Continuous Transmitting 802.11ac VHT80 5775 MHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	**Relative Humidity:**	57% RH




```
Condition       : 3m EMCO_3117_82847 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:57 P:1021
EUT&MODEL       : JP24
```

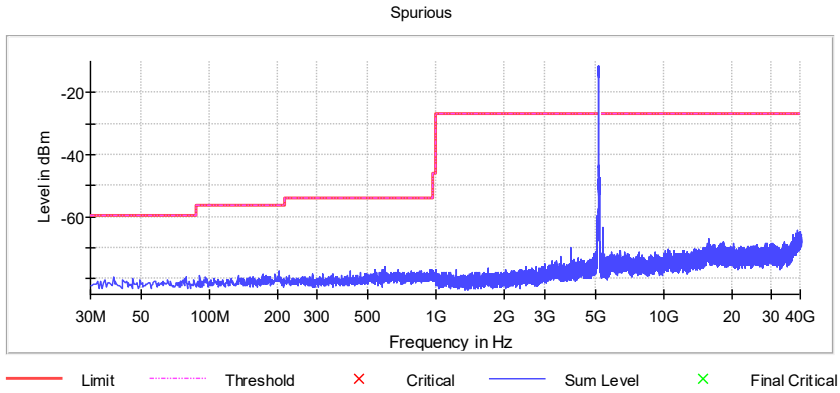
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol V/H	Remark
1	5598.20	27.81	38.55	66.36	68.20	-1.84	VERTICAL	Peak
2	5694.60	27.21	38.95	66.16	101.20	-35.04	VERTICAL	Peak
3	5718.60	27.29	38.98	66.27	110.41	-44.14	VERTICAL	Peak
4	5721.00	26.41	38.98	65.39	113.08	-47.69	VERTICAL	Peak
5	5771.80	48.13	39.05	87.18	F	--	VERTICAL	Peak
6	5853.00	25.25	39.06	64.31	115.36	-51.05	VERTICAL	Peak
7	5865.80	26.45	39.08	65.53	107.78	-42.25	VERTICAL	Peak
8	5915.40	26.30	39.23	65.53	75.30	-9.77	VERTICAL	Peak
9	5972.20	27.73	39.42	67.15	68.20	-1.05	VERTICAL	Peak

Notes:
1. Factor = Cable Loss + Antenna Factor – Pre-amplifier Gain
2. Level = Read Level + Factor
3. “F” denotes Fundamental Frequency

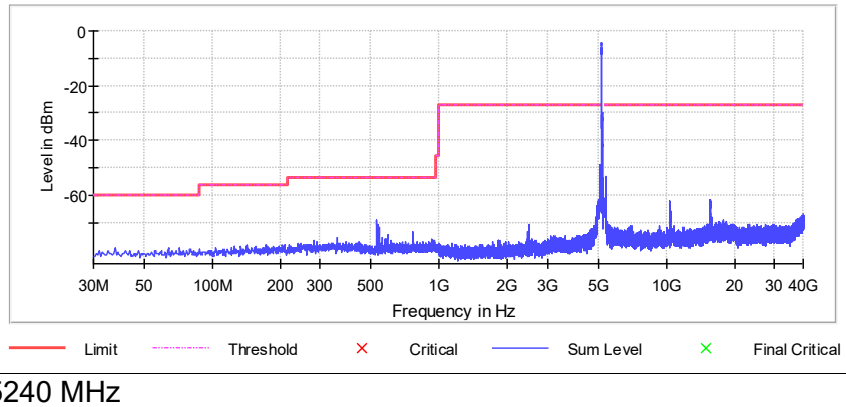
Conducted Spurious Emission Measurement

Test Mode : Continuous Transmitting	**Tester :** Hunter
Ambient Temperature : 23℃	**Relative Humidity :** 58%
Test Date : 2026/01/21	

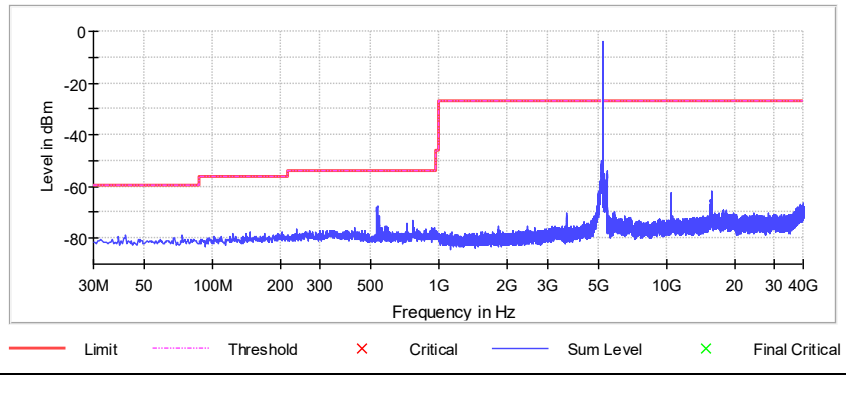
802.11a 5180 MHz



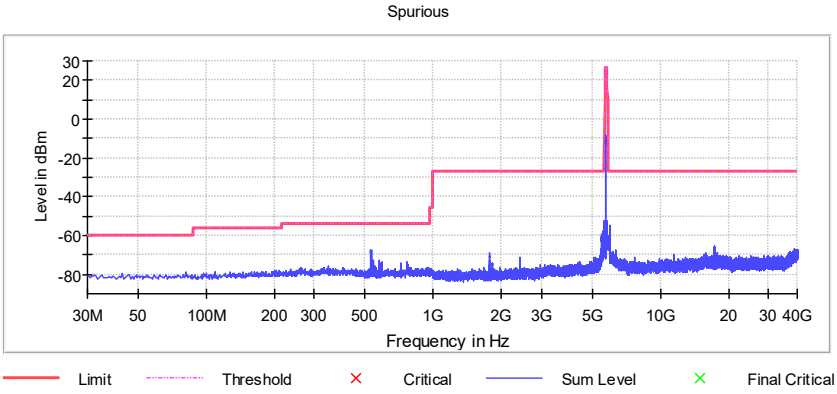
802.11a 5200 MHz



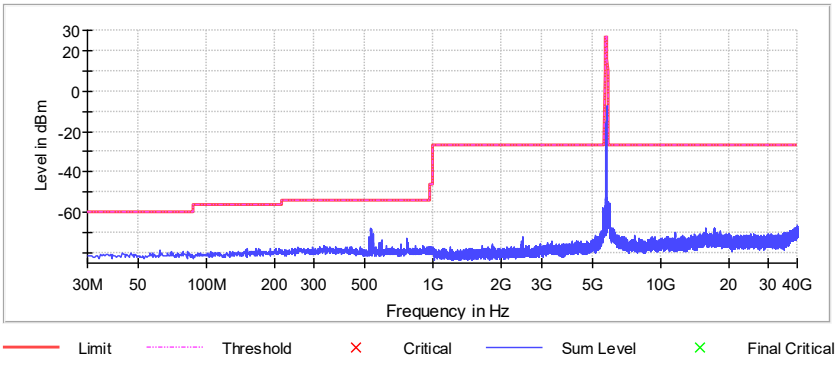
802.11a 5240 MHz



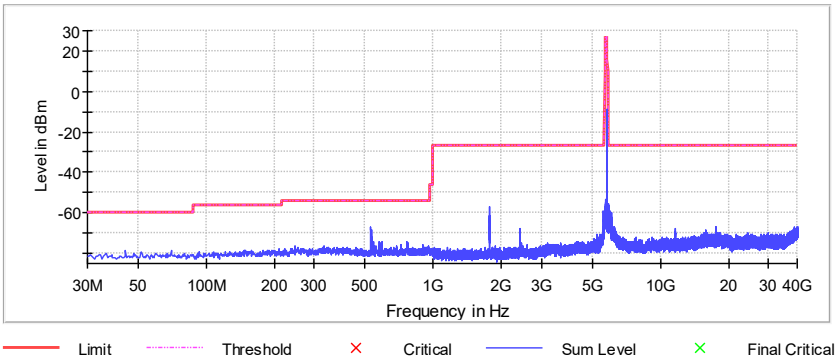
802.11a 5745 MHz



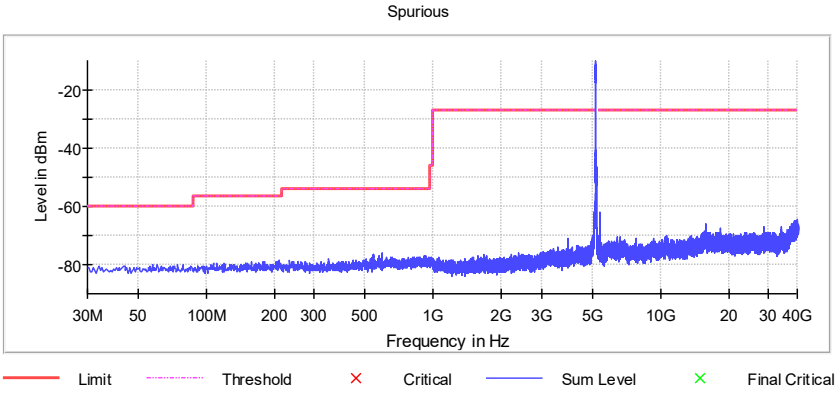
802.11a 5785 MHz



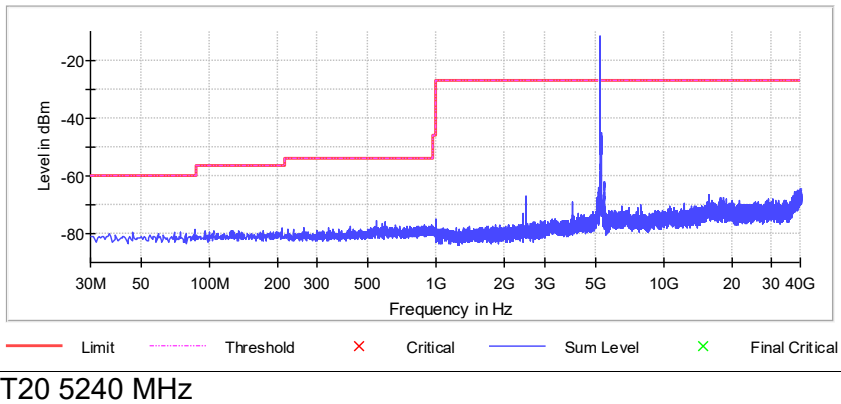
802.11a 5825 MHz



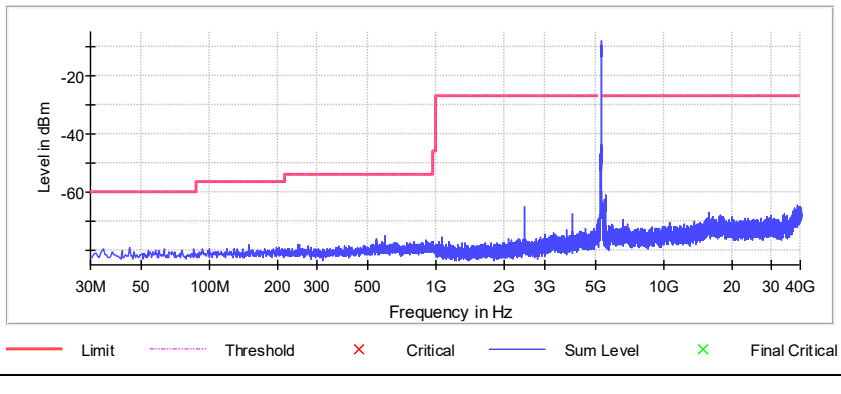
802.11VHT20 5180 MHz



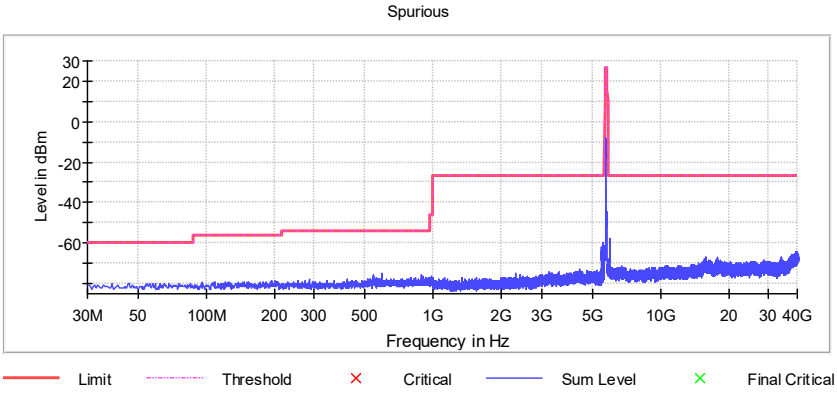
802.11VHT20 5200 MHz



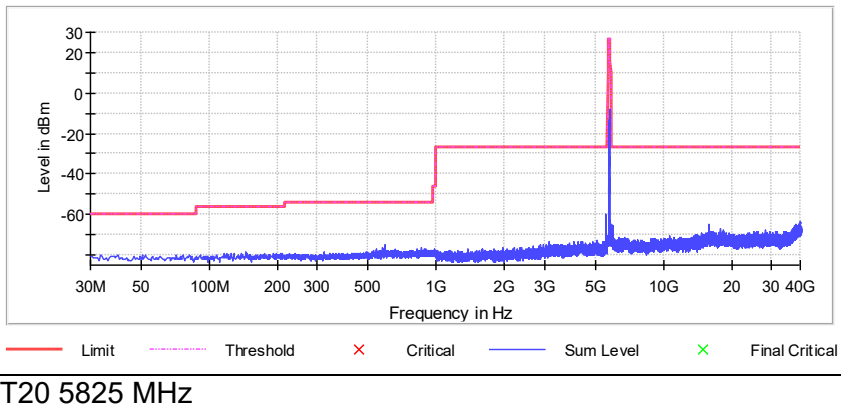
802.11VHT20 5240 MHz



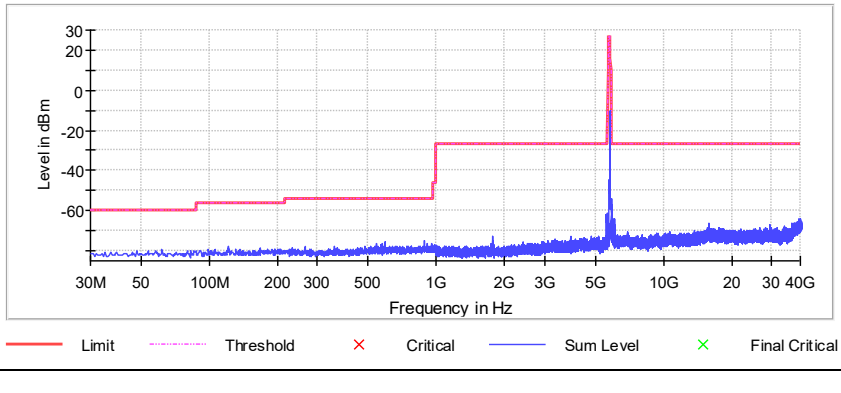
802.11VHT20 5745 MHz



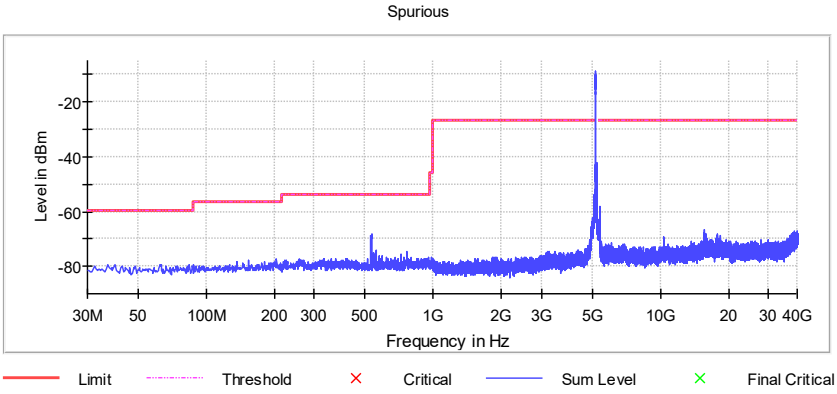
802.11VHT20 5785 MHz



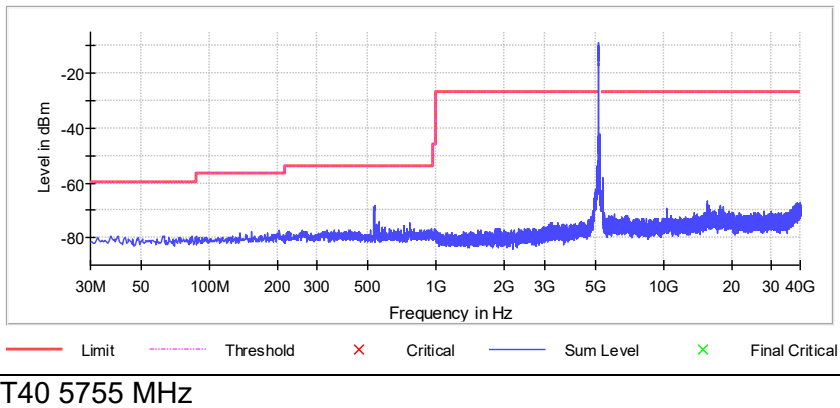
802.11VHT20 5825 MHz



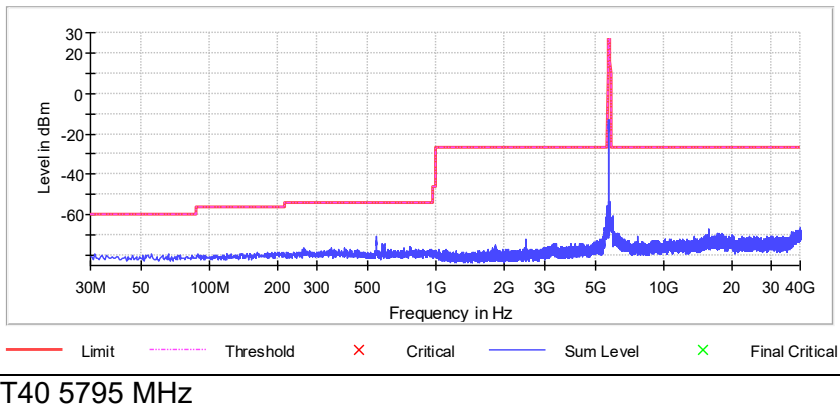
802.11VHT40 5190 MHz



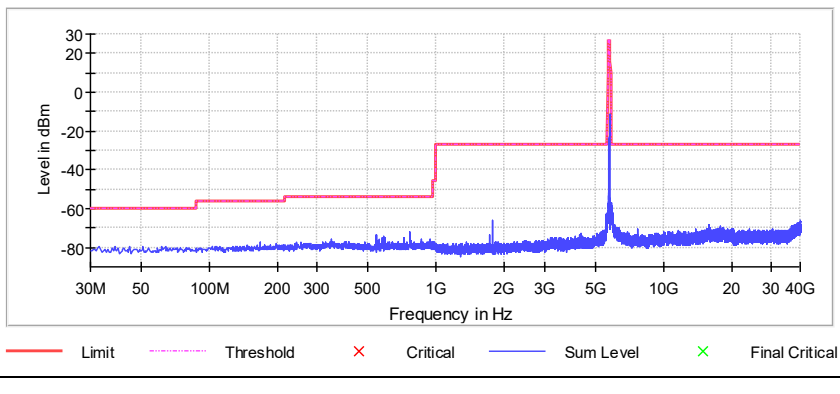
802.11VHT40 5230 MHz



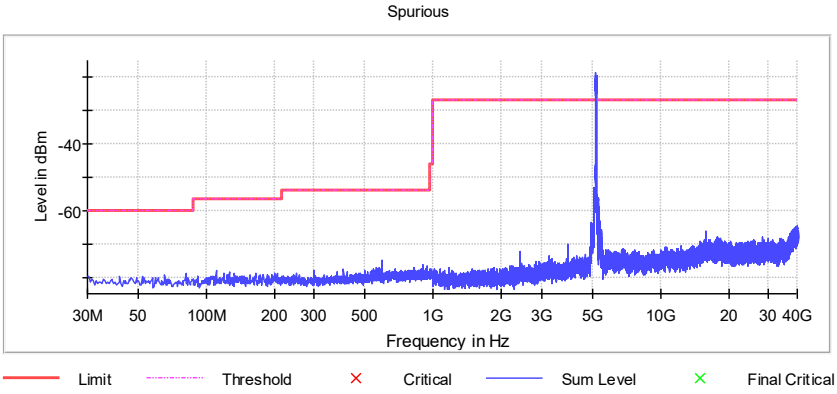
802.11VHT40 5755 MHz



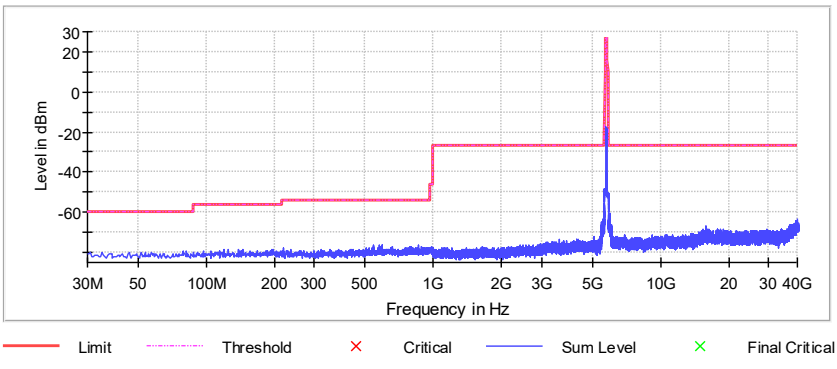
802.11VHT40 5795 MHz



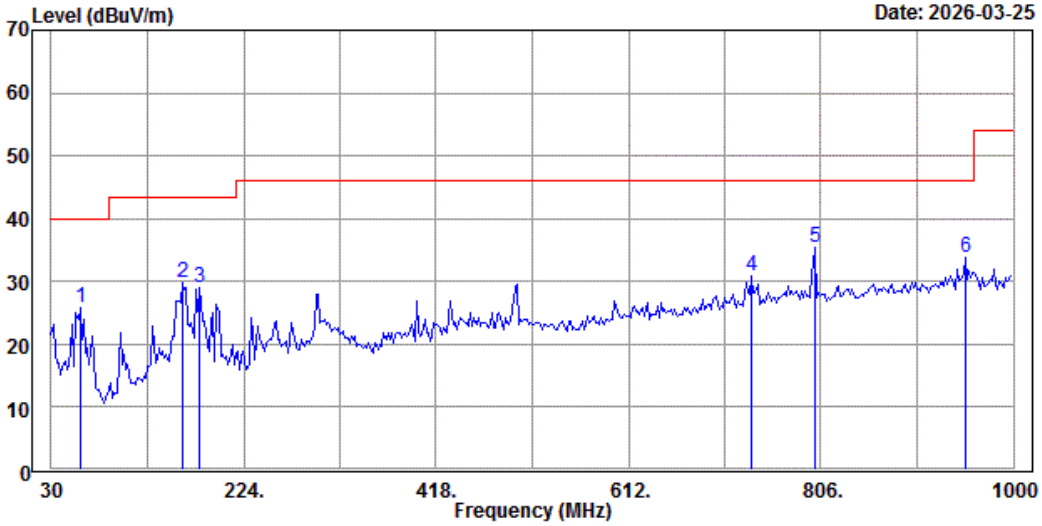
802.11VHT80 5210 MHz



802.11VHT80 5775 MHz



Test Mode:	Continuous Transmitting U-NII-1 5180 MHz		
Test Range:	30 MHz ~ 1 GHz		
Polarization:	Horizontal	**Tester:**	Volvo
Ambient Temp.:	22℃	**Relative Humidity:**	55%



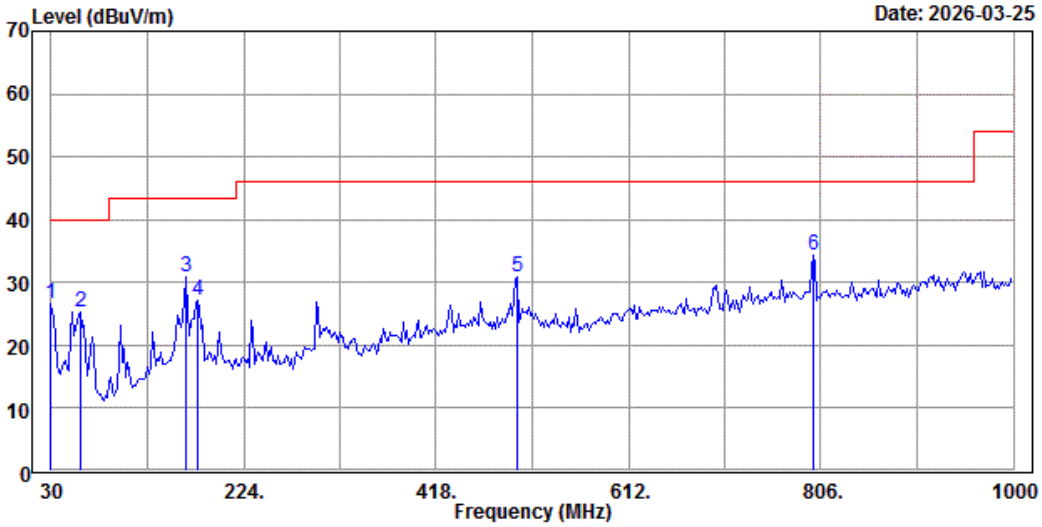
Site : TR11 9*6*6 chamber
Condition : 3m Schwarzbeck_9168_668 HORIZONTAL
Power : 120V/50Hz
Operator : Volvo T22/H55/P1018

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	59.100	25.92	47.05	-21.13	40.00	-14.08	---	---	HORIZONTAL	Peak
2	161.920	29.81	50.02	-20.21	43.50	-13.69	---	---	HORIZONTAL	Peak
3	179.380	28.91	50.14	-21.23	43.50	-14.59	---	---	HORIZONTAL	Peak
4	736.160	30.85	40.74	-9.89	46.00	-15.15	---	---	HORIZONTAL	Peak
5	800.180	35.36	44.63	-9.27	46.00	-10.64	---	---	HORIZONTAL	Peak
6	951.500	33.73	41.05	-7.32	46.00	-12.27	---	---	HORIZONTAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. QP. is abbreviation of Quasi-Peak

Test Mode:	Continuous Transmitting U-NII-1 5180 MHz		
Test Range:	30 MHz ~ 1 GHz		
Polarization:	Horizontal	**Tester:**	Volvo
Ambient Temp.:	22℃	**Relative Humidity:**	55%



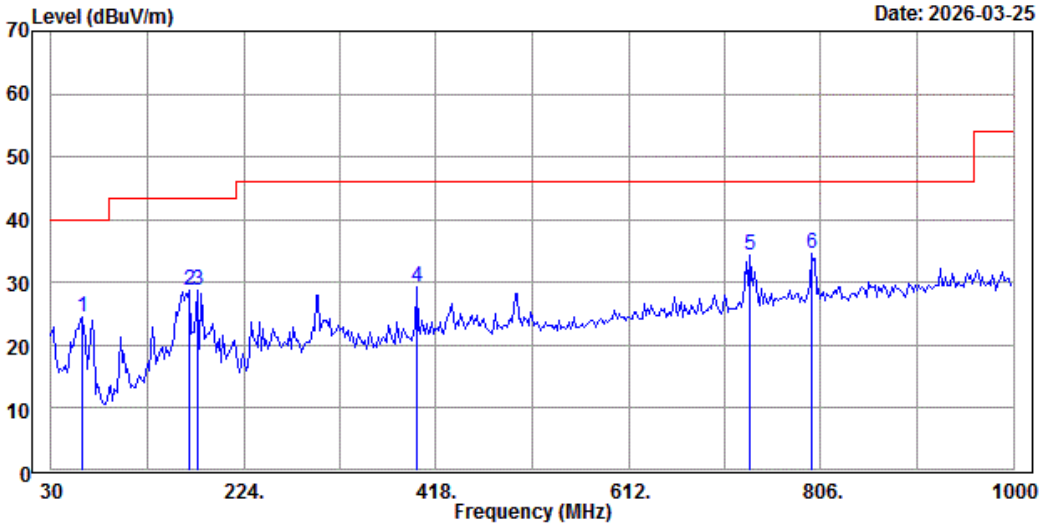
Site : TR11 9*6*6 chamber
Condition : 3m Schwarzbeck_9168_668 VERTICAL
Power : 120V/50Hz
Operator : Volvo T22/H55/P1018

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	30.000	26.57	49.67	-23.10	40.00	-13.43	---	---	VERTICAL	Peak
2	59.100	25.37	46.50	-21.13	40.00	-14.63	---	---	VERTICAL	Peak
3	165.800	30.75	51.06	-20.31	43.50	-12.75	---	---	VERTICAL	Peak
4	177.440	27.26	48.36	-21.10	43.50	-16.24	---	---	VERTICAL	Peak
5	499.480	30.77	45.56	-14.79	46.00	-15.23	---	---	VERTICAL	Peak
6	798.240	34.46	43.69	-9.23	46.00	-11.54	---	---	VERTICAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. QP. is abbreviation of Quasi-Peak

Test Mode:	Continuous Transmitting U-NII-1 5200 MHz		
Test Range:	30 MHz ~ 1 GHz		
Polarization:	Horizontal	**Tester:**	Volvo
Ambient Temp.:	22℃	**Relative Humidity:**	55%



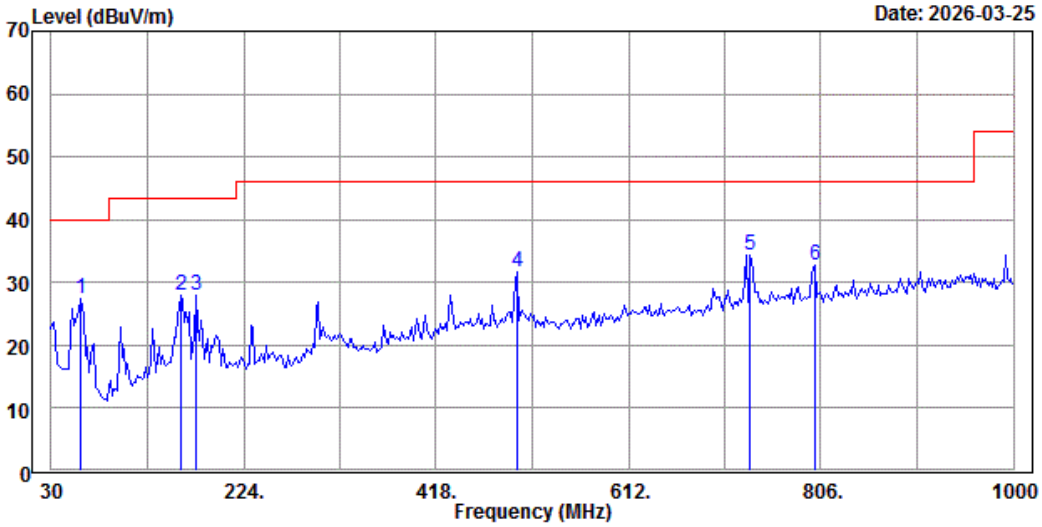
Site : TR11 9*6*6 chamber
Condition : 3m Schwarzbeck_9168_668 HORIZONTAL
Power : 120V/50Hz
Operator : Volvo T22/H55/P1018

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	61.040	24.59	46.02	-21.43	40.00	-15.41	---	---	HORIZONTAL	Peak
2	169.680	28.70	49.17	-20.47	43.50	-14.80	---	---	HORIZONTAL	Peak
3	177.440	28.75	49.85	-21.10	43.50	-14.75	---	---	HORIZONTAL	Peak
4	398.600	29.21	46.39	-17.18	46.00	-16.79	---	---	HORIZONTAL	Peak
5	734.220	34.38	44.32	-9.94	46.00	-11.62	---	---	HORIZONTAL	Peak
6	796.300	34.60	43.81	-9.21	46.00	-11.40	---	---	HORIZONTAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. QP. is abbreviation of Quasi-Peak

Test Mode:	Continuous Transmitting U-NII-1 5200 MHz		
Test Range:	30 MHz ~ 1 GHz		
Polarization:	Vertical	**Tester:**	Volvo
Ambient Temp.:	22℃	**Relative Humidity:**	55%



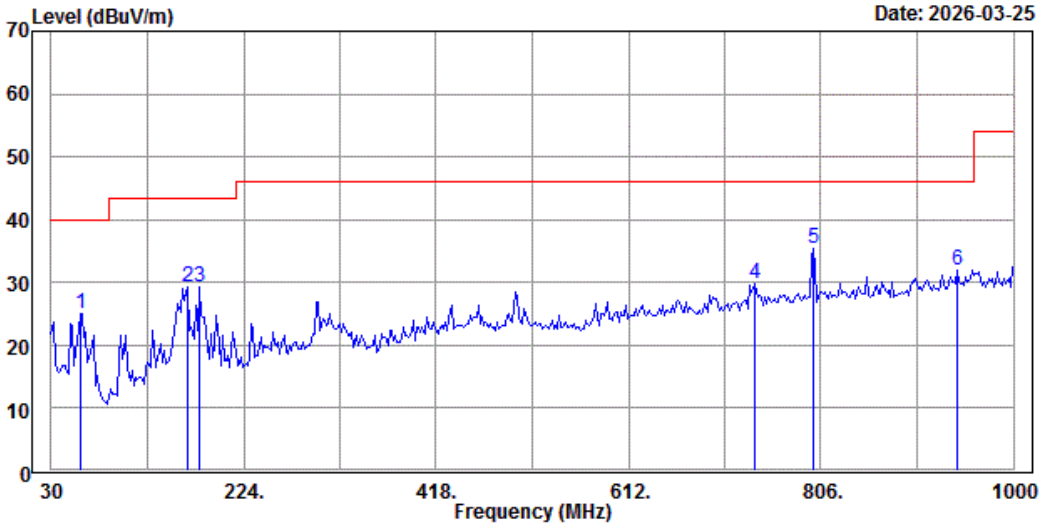
Site : TR11 9*6*6 chamber
Condition : 3m Schwarzbeck_9168_668 VERTICAL
Power : 120V/50Hz
Operator : Volvo T22/H55/P1018

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	59.100	27.50	48.63	-21.13	40.00	-12.50	---	---	VERTICAL	Peak
2	159.980	27.88	48.01	-20.13	43.50	-15.62	---	---	VERTICAL	Peak
3	175.500	27.91	48.69	-20.78	43.50	-15.59	---	---	VERTICAL	Peak
4	499.480	31.74	46.53	-14.79	46.00	-14.26	---	---	VERTICAL	Peak
5	734.220	34.41	44.35	-9.94	46.00	-11.59	---	---	VERTICAL	Peak
6	800.180	32.63	41.90	-9.27	46.00	-13.37	---	---	VERTICAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. QP. is abbreviation of Quasi-Peak

Test Mode:	Continuous Transmitting U-NII-1 5240 MHz		
Test Range:	30 MHz ~ 1 GHz		
Polarization:	Horizontal	**Tester:**	Volvo
Ambient Temp.:	22℃	**Relative Humidity:**	55%



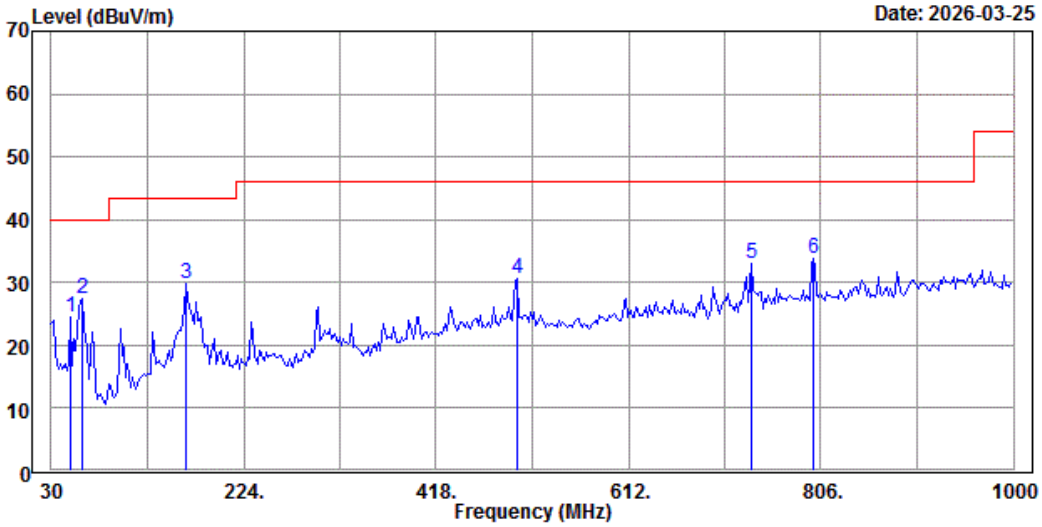
Site : TR11 9*6*6 chamber
Condition : 3m Schwarzbeck_9168_668 HORIZONTAL
Power : 120V/50Hz
Operator : Volvo T22/H55/P1018

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	59.100	25.05	46.18	-21.13	40.00	-14.95	---	---	HORIZONTAL	Peak
2	167.740	29.33	49.74	-20.41	43.50	-14.17	---	---	HORIZONTAL	Peak
3	179.380	29.36	50.59	-21.23	43.50	-14.14	---	---	HORIZONTAL	Peak
4	740.040	29.68	39.48	-9.80	46.00	-16.32	---	---	HORIZONTAL	Peak
5	798.240	35.43	44.66	-9.23	46.00	-10.57	---	---	HORIZONTAL	Peak
6	943.740	31.95	39.46	-7.51	46.00	-14.05	---	---	HORIZONTAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. QP. is abbreviation of Quasi-Peak

Test Mode:	Continuous Transmitting U-NII-1 5240 MHz		
Test Range:	30 MHz ~ 1 GHz		
Polarization:	Vertical	**Tester:**	Volvo
Ambient Temp.:	22℃	**Relative Humidity:**	55%



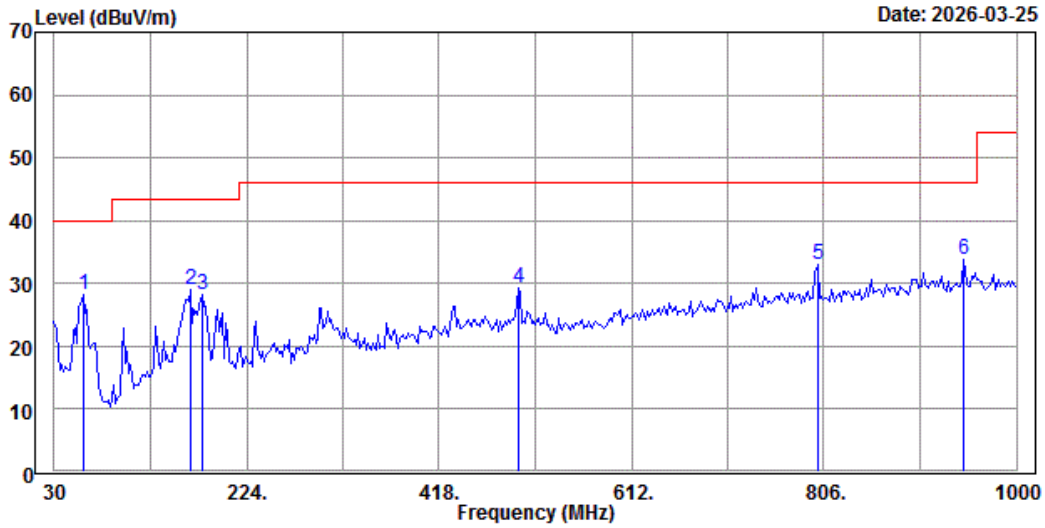
Site : TR11 9*6*6 chamber
Condition : 3m Schwarzbeck_9168_668 VERTICAL
Power : 120V/50Hz
Operator : Volvo T22/H55/P1018

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	49.400	24.43	45.07	-20.64	40.00	-15.57	---	---	VERTICAL	Peak
2	61.040	27.33	48.76	-21.43	40.00	-12.67	---	---	VERTICAL	Peak
3	165.800	29.78	50.09	-20.31	43.50	-13.72	---	---	VERTICAL	Peak
4	499.480	30.57	45.36	-14.79	46.00	-15.43	---	---	VERTICAL	Peak
5	736.160	32.90	42.79	-9.89	46.00	-13.10	---	---	VERTICAL	Peak
6	798.240	33.67	42.90	-9.23	46.00	-12.33	---	---	VERTICAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. QP. is abbreviation of Quasi-Peak

Test Mode:	Continuous Transmitting U-NII-3 5745 MHz		
Test Range:	30 MHz ~ 1 GHz		
Polarization:	Horizontal	**Tester:**	Volvo
Ambient Temp.:	22℃	**Relative Humidity:**	55%



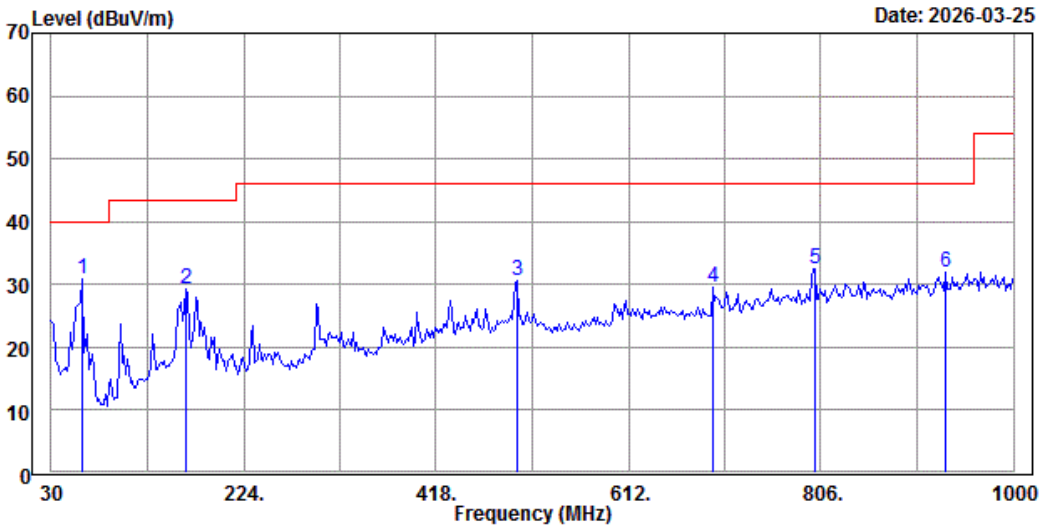
Site : TR11 9*6*6 chamber
Condition : 3m Schwarzbeck_9168_668 HORIZONTAL
Power : 120V/50Hz
Operator : Volvo T22/H55/P1018

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	59.100	28.29	49.42	-21.13	40.00	-11.71	---	---	HORIZONTAL	Peak
2	167.740	28.96	49.37	-20.41	43.50	-14.54	---	---	HORIZONTAL	Peak
3	179.380	28.27	49.50	-21.23	43.50	-15.23	---	---	HORIZONTAL	Peak
4	497.540	29.29	44.13	-14.84	46.00	-16.71	---	---	HORIZONTAL	Peak
5	800.180	32.95	42.22	-9.27	46.00	-13.05	---	---	HORIZONTAL	Peak
6	947.620	33.80	41.22	-7.42	46.00	-12.20	---	---	HORIZONTAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. QP. is abbreviation of Quasi-Peak

Test Mode:	Continuous Transmitting U-NII-3 5745 MHz		
Test Range:	30 MHz ~ 1 GHz		
Polarization:	Horizontal	**Tester:**	Volvo
Ambient Temp.:	22℃	**Relative Humidity:**	55%



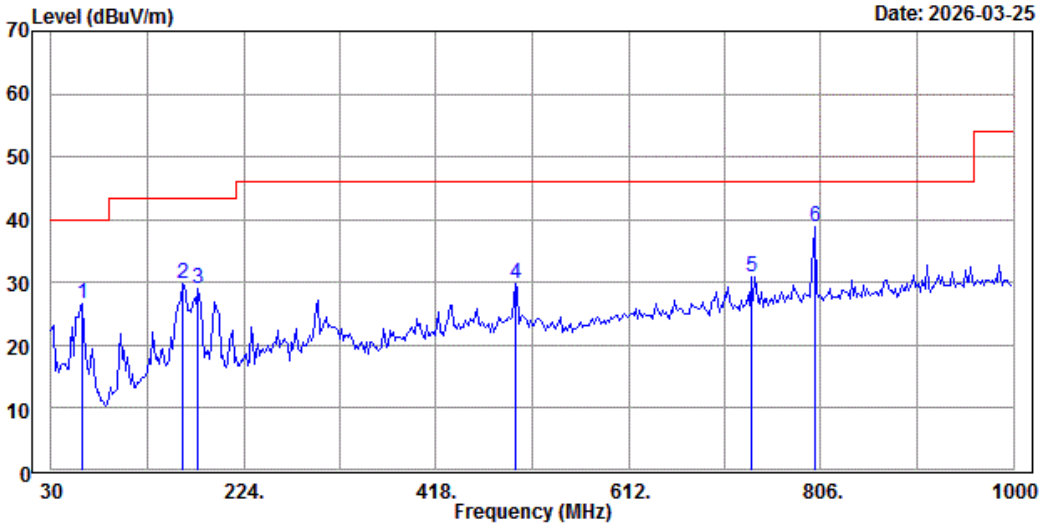
Site : TR11 9*6*6 chamber
Condition : 3m Schwarzbeck_9168_668 VERTICAL
Power : 120V/50Hz
Operator : Volvo T22/H55/P1018

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	61.040	30.74	52.17	-21.43	40.00	-9.26	---	---	VERTICAL	Peak
2	165.800	29.21	49.52	-20.31	43.50	-14.29	---	---	VERTICAL	Peak
3	499.480	30.49	45.28	-14.79	46.00	-15.51	---	---	VERTICAL	Peak
4	697.360	29.67	40.59	-10.92	46.00	-16.33	---	---	VERTICAL	Peak
5	800.180	32.40	41.67	-9.27	46.00	-13.60	---	---	VERTICAL	Peak
6	932.100	32.07	39.70	-7.63	46.00	-13.93	---	---	VERTICAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. QP. is abbreviation of Quasi-Peak

Test Mode:	Continuous Transmitting U-NII-3 5785 MHz		
Test Range:	30 MHz ~ 1 GHz		
Polarization:	Horizontal	**Tester:**	Volvo
Ambient Temp.:	22℃	**Relative Humidity:**	55%



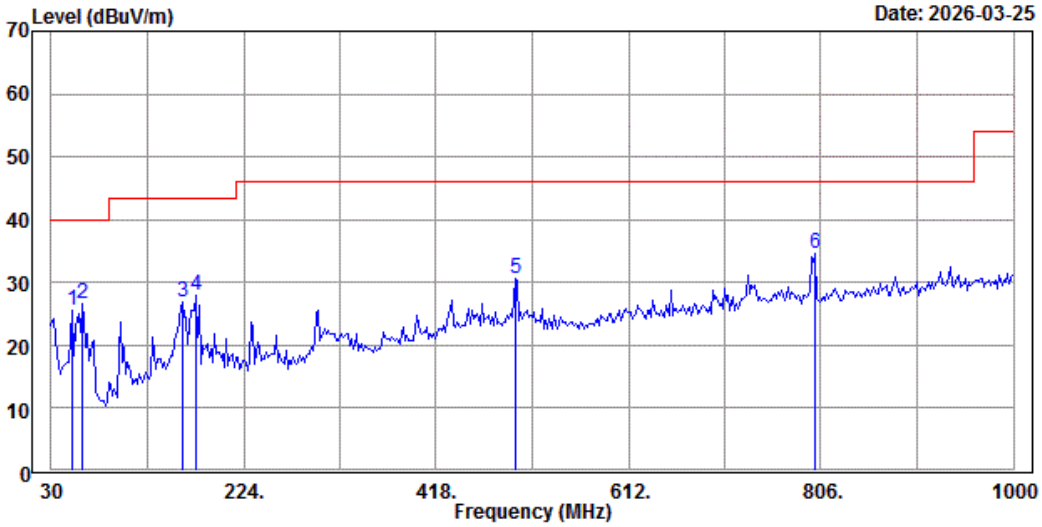
Site : TR11 9*6*6 chamber
Condition : 3m Schwarzbeck_9168_668 HORIZONTAL
Power : 120V/50Hz
Operator : Volvo T22/H55/P1018

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	61.040	26.51	47.94	-21.43	40.00	-13.49	---	---	HORIZONTAL	Peak
2	161.920	29.77	49.98	-20.21	43.50	-13.73	---	---	HORIZONTAL	Peak
3	177.440	28.93	50.03	-21.10	43.50	-14.57	---	---	HORIZONTAL	Peak
4	497.540	29.75	44.59	-14.84	46.00	-16.25	---	---	HORIZONTAL	Peak
5	736.160	30.99	40.88	-9.89	46.00	-15.01	---	---	HORIZONTAL	Peak
6	800.180	38.98	48.25	-9.27	46.00	-7.02	---	---	HORIZONTAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. QP. is abbreviation of Quasi-Peak

Test Mode:	Continuous Transmitting U-NII-3 5785 MHz		
Test Range:	30 MHz ~ 1 GHz		
Polarization:	Vertical	**Tester:**	Volvo
Ambient Temp.:	22℃	**Relative Humidity:**	55%



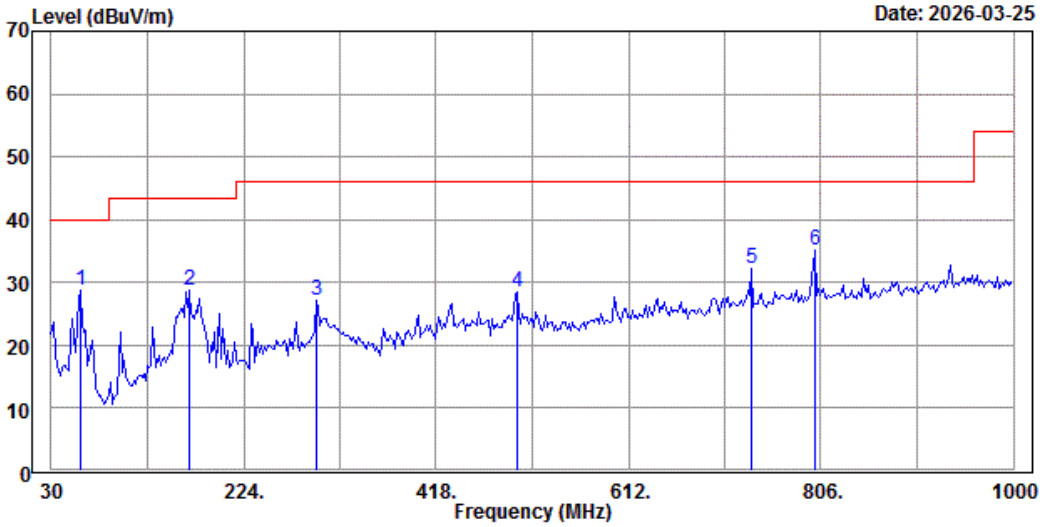
Site : TR11 9*6*6 chamber
Condition : 3m Schwarzbeck_9168_668 VERTICAL
Power : 120V/50Hz
Operator : Volvo T22/H55/P1018

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	51.340	25.62	46.23	-20.61	40.00	-14.38	---	---	VERTICAL	Peak
2	61.040	26.64	48.07	-21.43	40.00	-13.36	---	---	VERTICAL	Peak
3	161.920	26.78	46.99	-20.21	43.50	-16.72	---	---	VERTICAL	Peak
4	175.500	28.00	48.78	-20.78	43.50	-15.50	---	---	VERTICAL	Peak
5	497.540	30.62	45.46	-14.84	46.00	-15.38	---	---	VERTICAL	Peak
6	800.180	34.58	43.85	-9.27	46.00	-11.42	---	---	VERTICAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. QP. is abbreviation of Quasi-Peak

Test Mode:	Continuous Transmitting U-NII-3 5825 MHz		
Test Range:	30 MHz ~ 1 GHz		
Polarization:	Horizontal	**Tester:**	Volvo
Ambient Temp.:	22℃	**Relative Humidity:**	55%



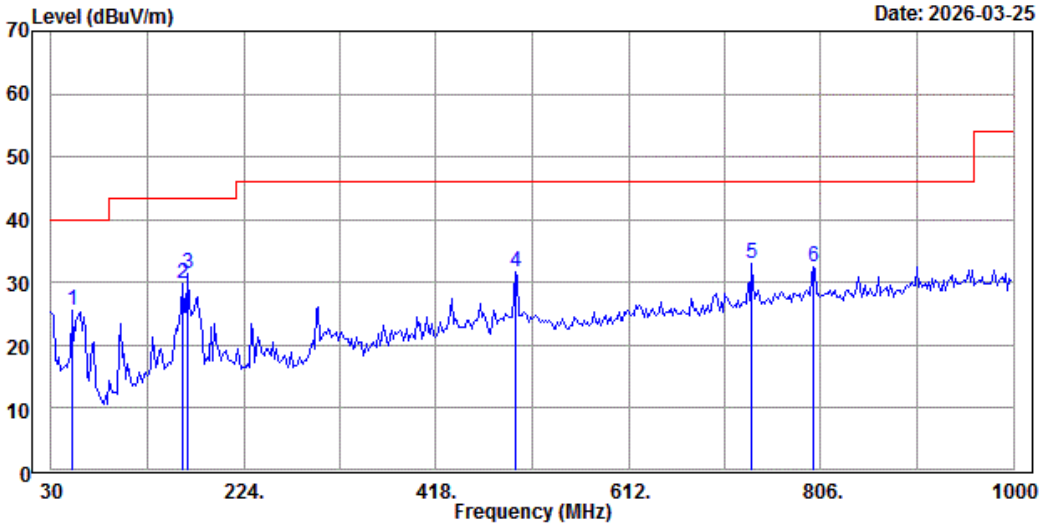
Site : TR11 9*6*6 chamber
Condition : 3m Schwarzbeck_9168_668 HORIZONTAL
Power : 120V/50Hz
Operator : Volvo T22/H55/P1018

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	59.100	28.74	49.87	-21.13	40.00	-11.26	---	---	HORIZONTAL	Peak
2	169.680	28.81	49.28	-20.47	43.50	-14.69	---	---	HORIZONTAL	Peak
3	297.720	27.02	46.75	-19.73	46.00	-18.98	---	---	HORIZONTAL	Peak
4	499.480	28.53	43.32	-14.79	46.00	-17.47	---	---	HORIZONTAL	Peak
5	736.160	32.31	42.20	-9.89	46.00	-13.69	---	---	HORIZONTAL	Peak
6	800.180	35.22	44.49	-9.27	46.00	-10.78	---	---	HORIZONTAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. QP. is abbreviation of Quasi-Peak

Test Mode:	Continuous Transmitting U-NII-3 5825 MHz		
Test Range:	30 MHz ~ 1 GHz		
Polarization:	Vertical	**Tester:**	Volvo
Ambient Temp.:	22℃	**Relative Humidity:**	55%



Site : TR11 9*6*6 chamber
Condition : 3m Schwarzbeck_9168_668 VERTICAL
Power : 120V/50Hz
Operator : Volvo T22/H55/P1018

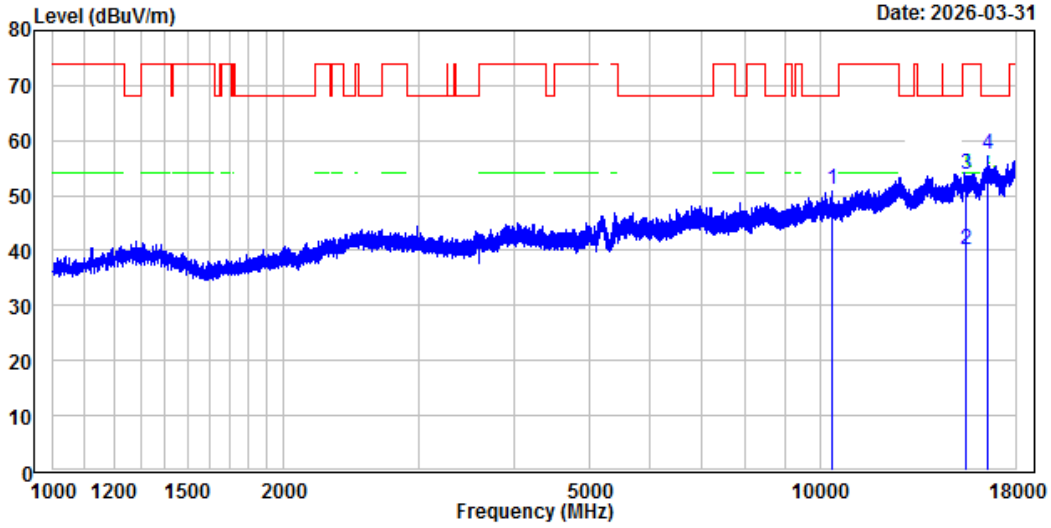
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	51.340	25.55	46.16	-20.61	40.00	-14.45	---	---	VERTICAL	Peak
2	161.920	29.78	49.99	-20.21	43.50	-13.72	---	---	VERTICAL	Peak
3	167.740	31.28	51.69	-20.41	43.50	-12.22	---	---	VERTICAL	Peak
4	497.540	31.76	46.60	-14.84	46.00	-14.24	---	---	VERTICAL	Peak
5	736.160	32.97	42.86	-9.89	46.00	-13.03	---	---	VERTICAL	Peak
6	798.240	32.51	41.74	-9.23	46.00	-13.49	---	---	VERTICAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. QP. is abbreviation of Quasi-Peak

Radiated Emission Measurement above 1000MHz

Test Mode:	Continuous Transmitting U-NII-1 5180 MHz		
Test Range:	1 GHz ~ 18 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH



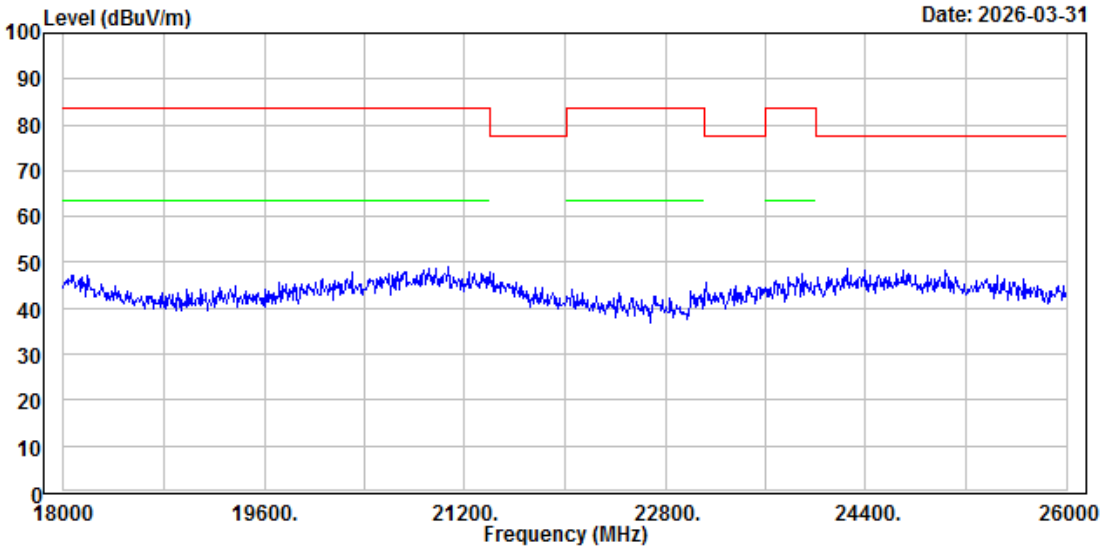
Condition : 3m EMCO_3117_82847 HORIZONTAL
POWER :
OPERATOR : JEFFRY T:22 H:64 P:1018
EUT&MODEL : JP24
: POWER SETTING 10

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	10360.940	51.02	58.18	-7.16	68.20	-17.18	319	254	HORIZONTAL	Peak
2	15537.650	40.08	46.86	-6.78	54.00	-13.92	382	332	HORIZONTAL	Average
3	15537.650	53.85	60.63	-6.78	74.00	-20.15	382	332	HORIZONTAL	Peak
4	16540.640	57.42	62.25	-4.83	68.20	-10.78	319	237	HORIZONTAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. The peak level meets average limit, so average value doesn't need be recorded.

Test Mode:	Continuous Transmitting U-NII-1 5180 MHz		
Test Range:	18 GHz ~ 26 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

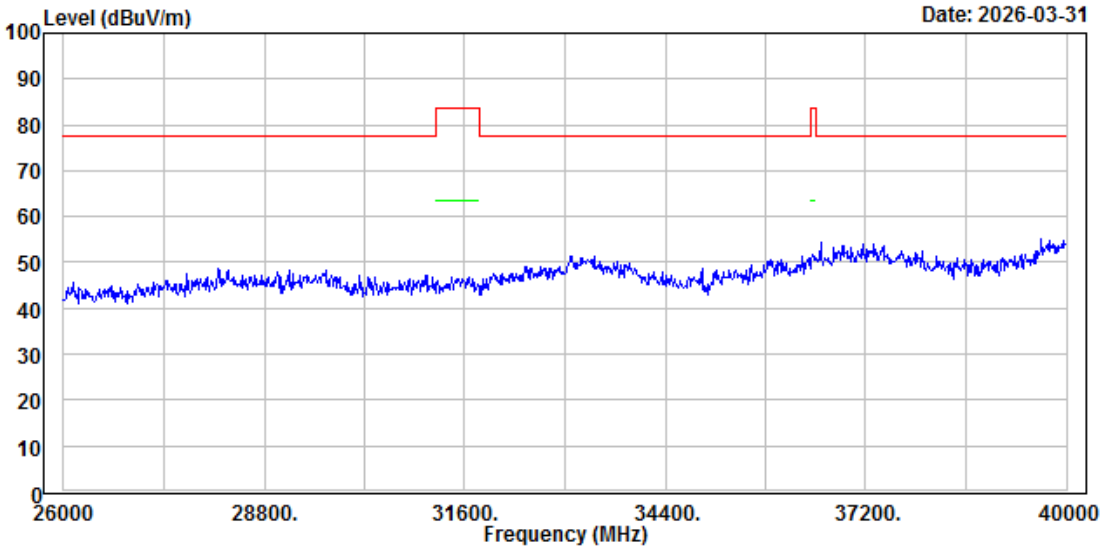



```
Condition       : 1m COM-POWER_AH-840 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-1 5180 MHz		
Test Range:	26 GHz ~ 40 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

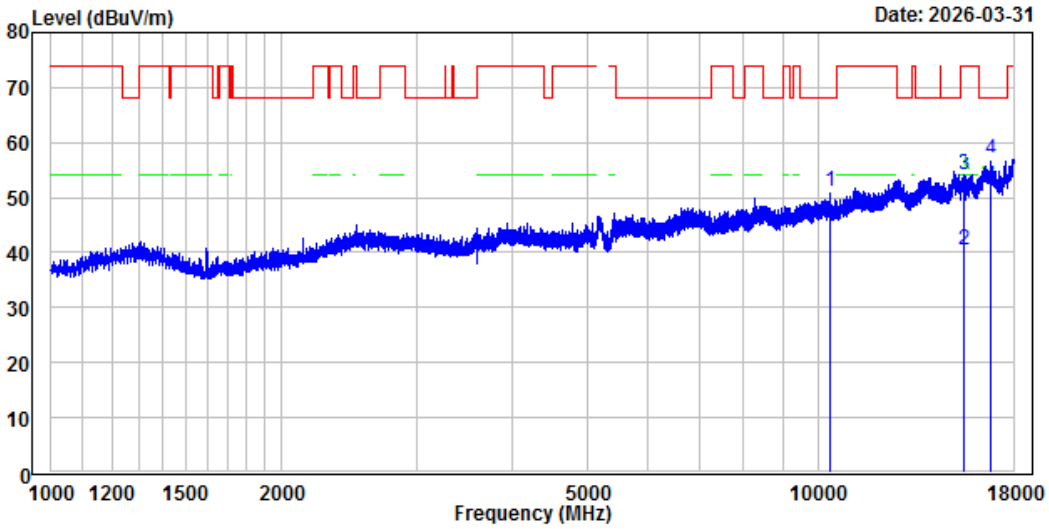



```
Condition       : 1m COM-POWER_AH-840 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-1 5180 MHz		
Test Range:	1 GHz ~ 18 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH



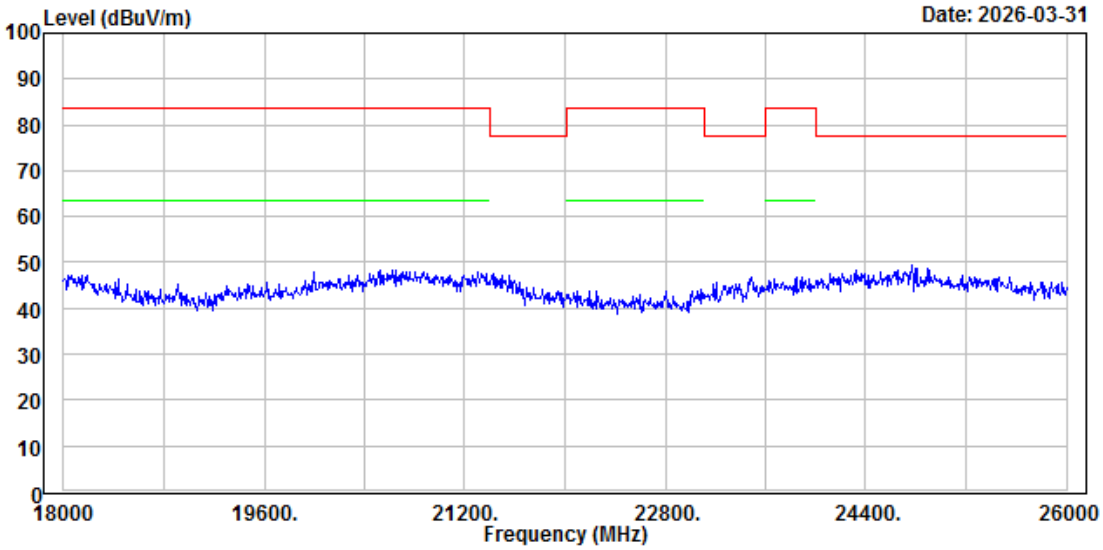
Condition : 3m EMCO_3117_82847 VERTICAL
POWER :
OPERATOR : JEFFRY T:22 H:64 P:1018
EUT&MODEL : JP24
: POWER SETTING 10

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	10361.320	51.11	58.27	-7.16	68.20	-17.09	282	296	VERTICAL	Peak
2	15539.560	40.35	47.13	-6.78	54.00	-13.65	374	229	VERTICAL	Average
3	15539.560	54.23	61.01	-6.78	74.00	-19.77	374	229	VERTICAL	Peak
4	16817.010	56.84	61.02	-4.18	68.20	-11.36	357	52	VERTICAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. The peak level meets average limit, so average value doesn't need be recorded.

Test Mode:	Continuous Transmitting U-NII-1 5180 MHz		
Test Range:	18 GHz ~ 26 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

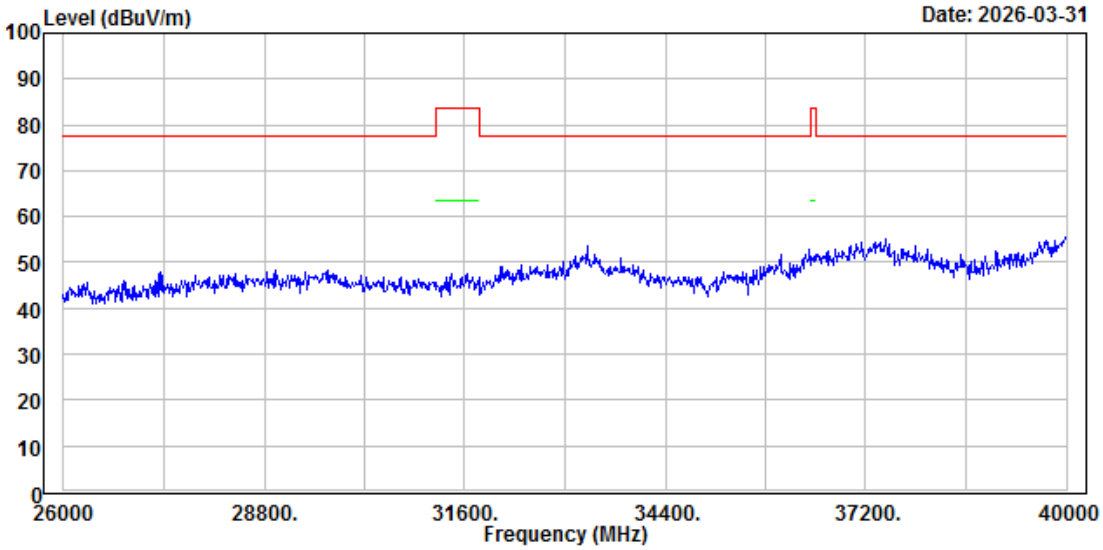



```
Condition       : 1m COM-POWER_AH-840 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-1 5180 MHz		
Test Range:	26 GHz ~ 40 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

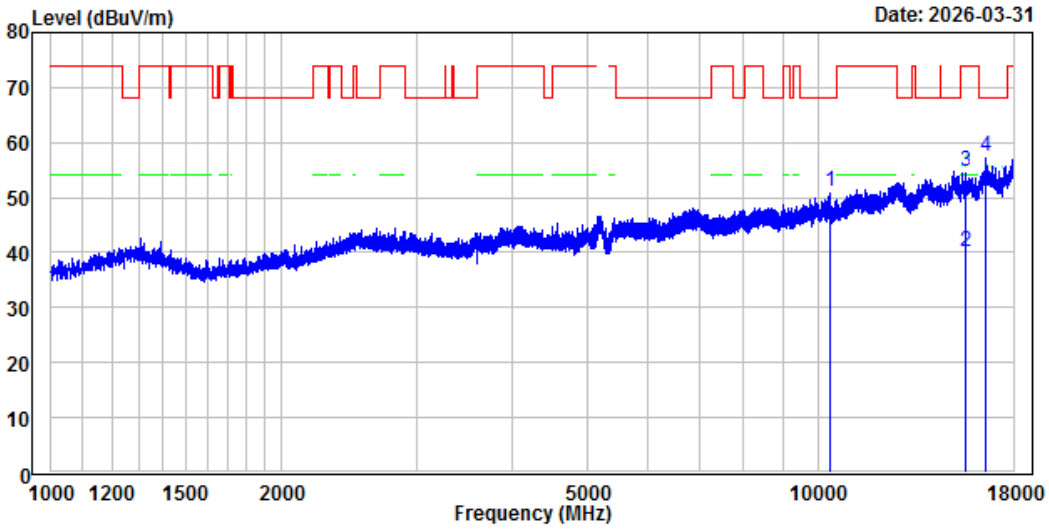



```
Condition       : 1m COM-POWER_AH-840 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-1 5200 MHz		
Test Range:	1 GHz ~ 18 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH



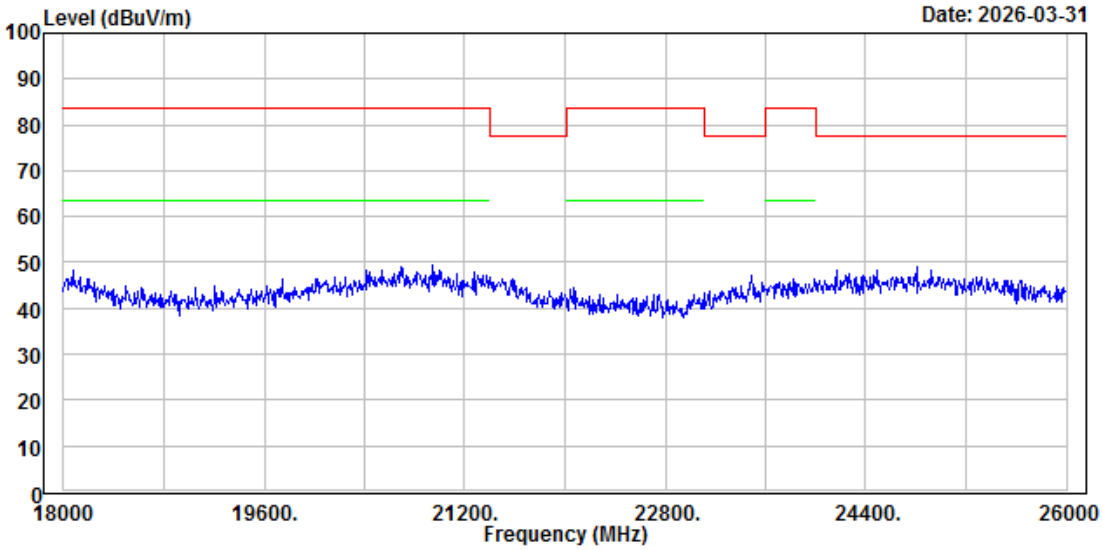
Condition : 3m EMCO_3117_82847 HORIZONTAL
POWER :
OPERATOR : JEFFRY T:22 H:64 P:1018
EUT&MODEL : JP24
: POWER SETTING 10

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	10398.220	51.10	58.32	-7.22	68.20	-17.10	320	142	HORIZONTAL	Peak
2	15598.680	40.30	47.11	-6.81	54.00	-13.70	390	322	HORIZONTAL	Average
3	15598.680	54.69	61.50	-6.81	74.00	-19.31	390	322	HORIZONTAL	Peak
4	16539.350	57.41	62.24	-4.83	68.20	-10.79	262	139	HORIZONTAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. The peak level meets average limit, so average value doesn't need be recorded.

Test Mode:	Continuous Transmitting U-NII-1 5200 MHz		
Test Range:	18 GHz ~ 26 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

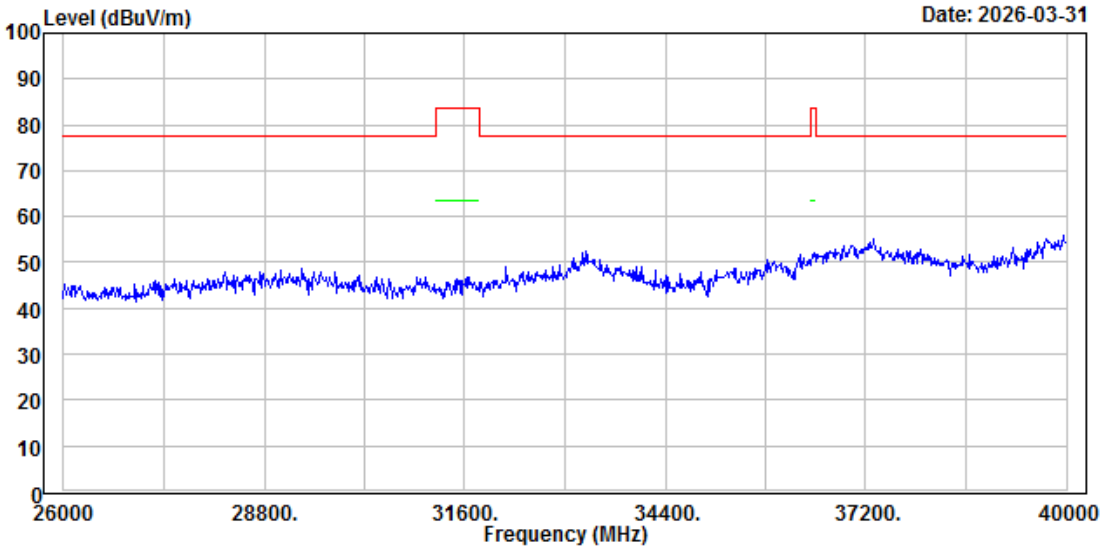



```
Condition       : 1m COM-POWER_AH-840 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-1 5200 MHz		
Test Range:	26 GHz ~ 40 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

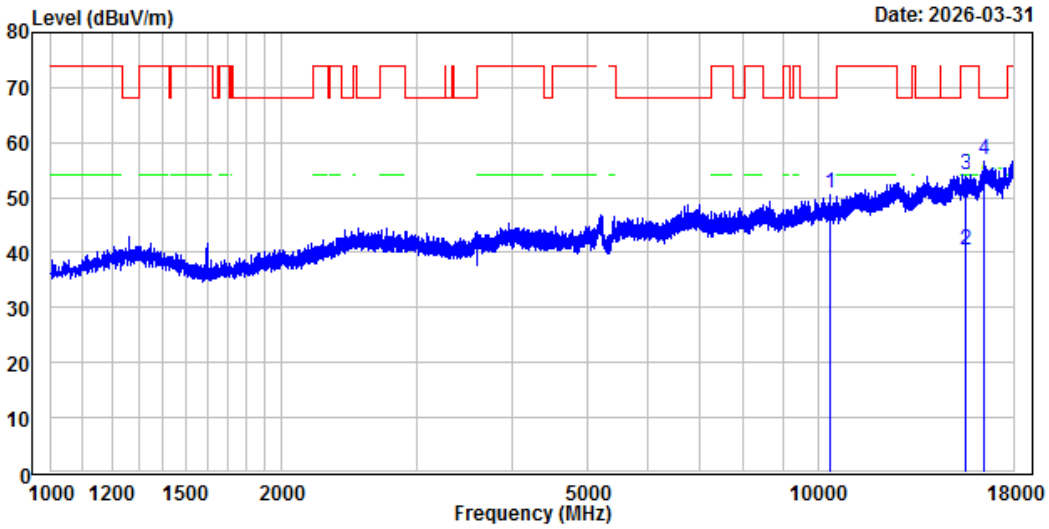



```
Condition       : 1m COM-POWER_AH-840 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-1 5200 MHz		
Test Range:	1 GHz ~ 18 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH



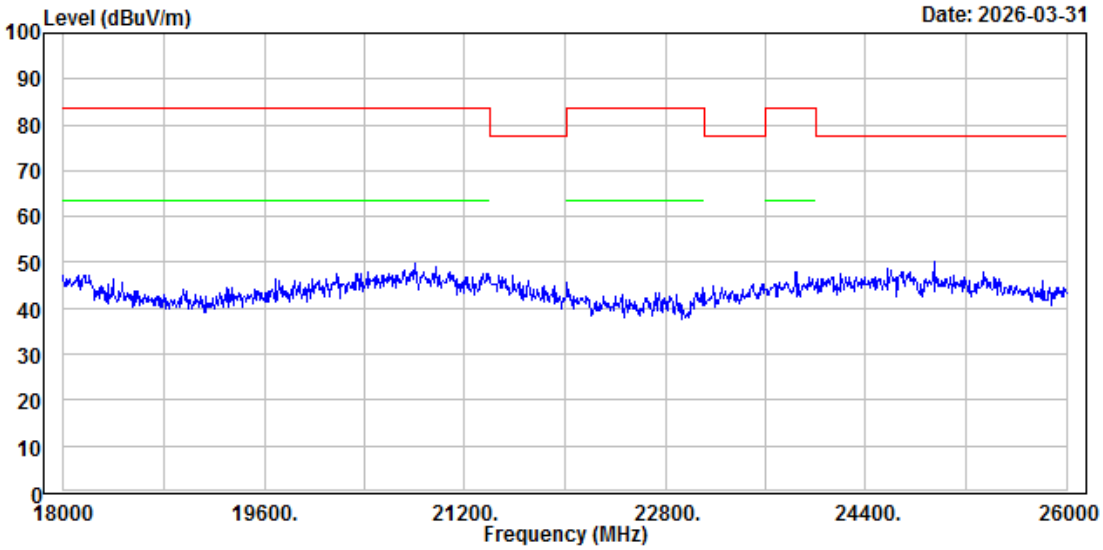
Condition : 3m EMCO_3117_82847 VERTICAL
POWER :
OPERATOR : JEFFRY T:22 H:64 P:1018
EUT&MODEL : JP24
: POWER SETTING 10

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	10398.460	50.79	58.01	-7.22	68.20	-17.41	356	355	VERTICAL	Peak
2	15597.730	40.48	47.29	-6.81	54.00	-13.52	314	152	VERTICAL	Average
3	15597.730	54.25	61.06	-6.81	74.00	-19.75	314	152	VERTICAL	Peak
4	16518.880	56.97	61.82	-4.85	68.20	-11.23	390	72	VERTICAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. The peak level meets average limit, so average value doesn't need be recorded.

Test Mode:	Continuous Transmitting U-NII-1 5200 MHz		
Test Range:	18 GHz ~ 26 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

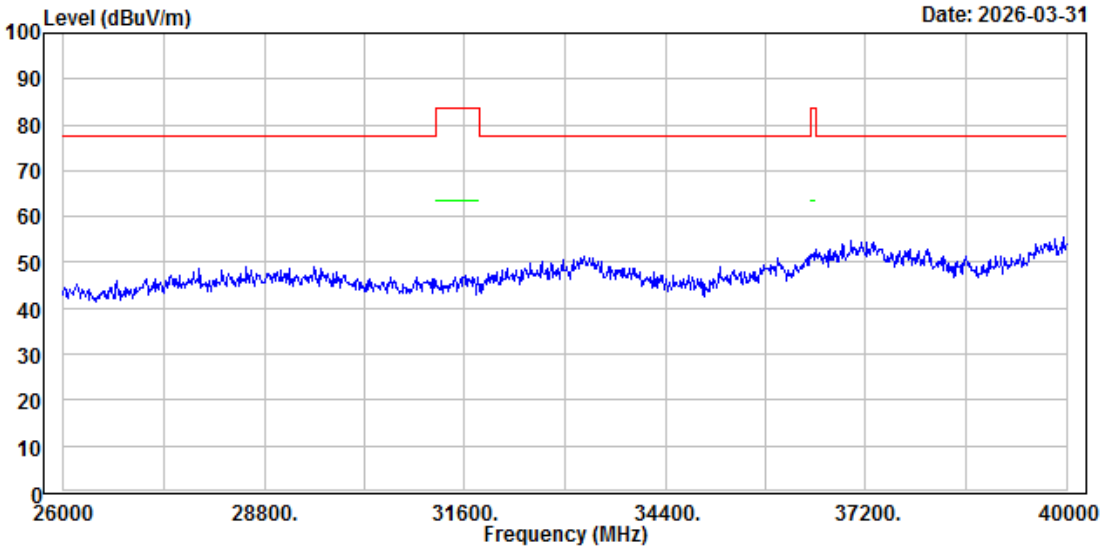



```
Condition       : 1m COM-POWER_AH-840 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-1 5200 MHz		
Test Range:	26 GHz ~ 40 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

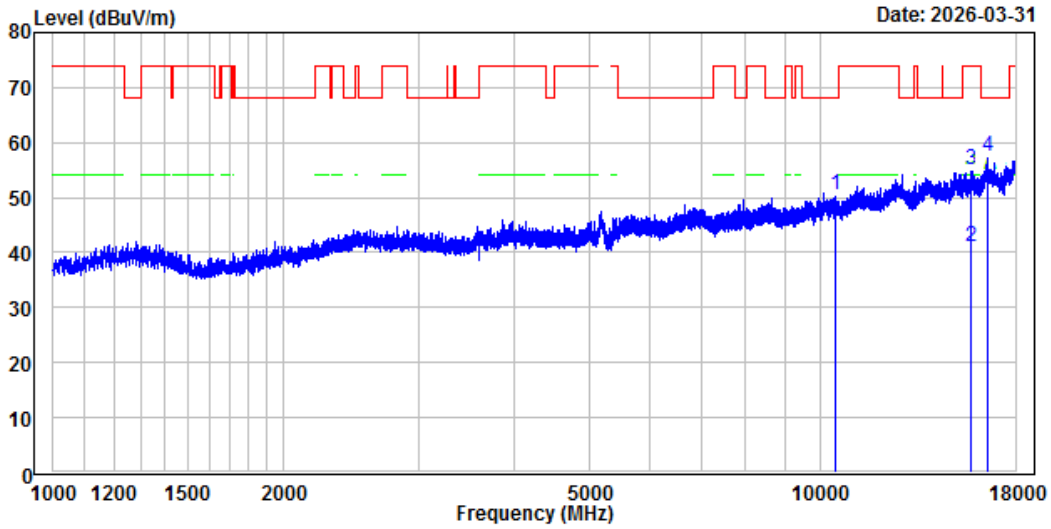



```
Condition       : 1m COM-POWER_AH-840 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-1 5240 MHz		
Test Range:	1 GHz ~ 18 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH



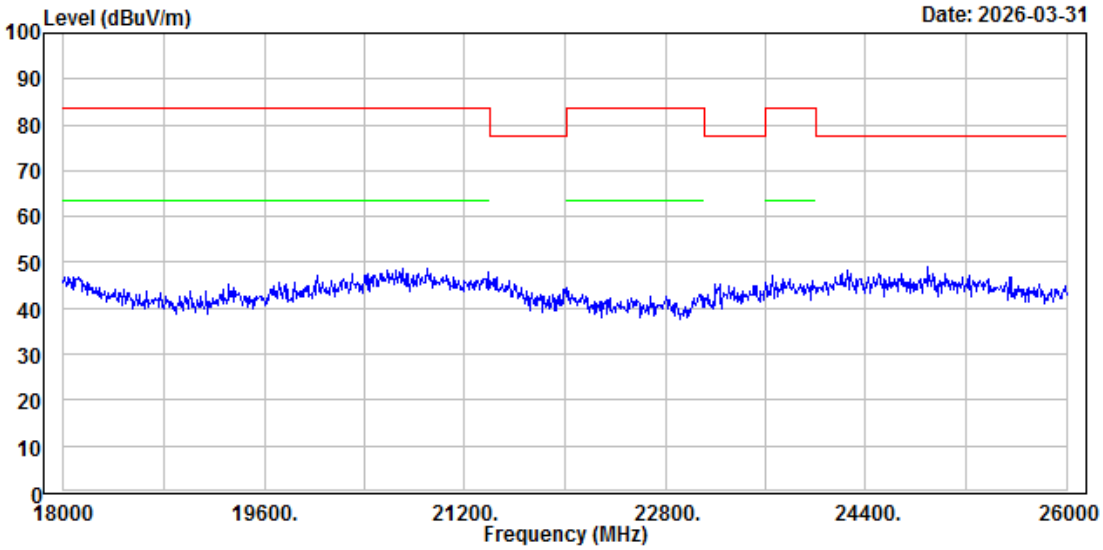
Condition : 3m EMCO_3117_82847 HORIZONTAL
POWER :
OPERATOR : JEFFRY T:22 H:64 P:1018
EUT&MODEL : JP24
: POWER SETTING 10

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	10478.590	50.38	57.49	-7.11	68.20	-17.82	390	320	HORIZONTAL	Peak
2	15722.430	41.20	47.46	-6.26	54.00	-12.80	277	198	HORIZONTAL	Average
3	15722.430	54.92	61.18	-6.26	74.00	-19.08	277	198	HORIZONTAL	Peak
4	16563.070	57.49	62.33	-4.84	68.20	-10.71	304	61	HORIZONTAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. The peak level meets average limit, so average value doesn't need be recorded.

Test Mode:	Continuous Transmitting U-NII-1 5240 MHz		
Test Range:	18 GHz ~ 26 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

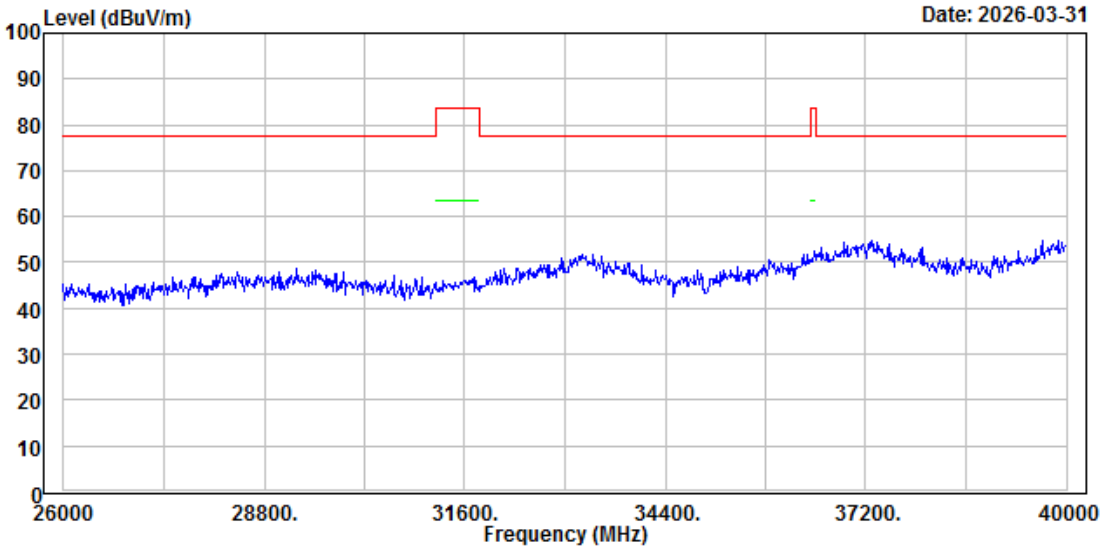



```
Condition       : 1m COM-POWER_AH-840 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-1 5240 MHz		
Test Range:	26 GHz ~ 40 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

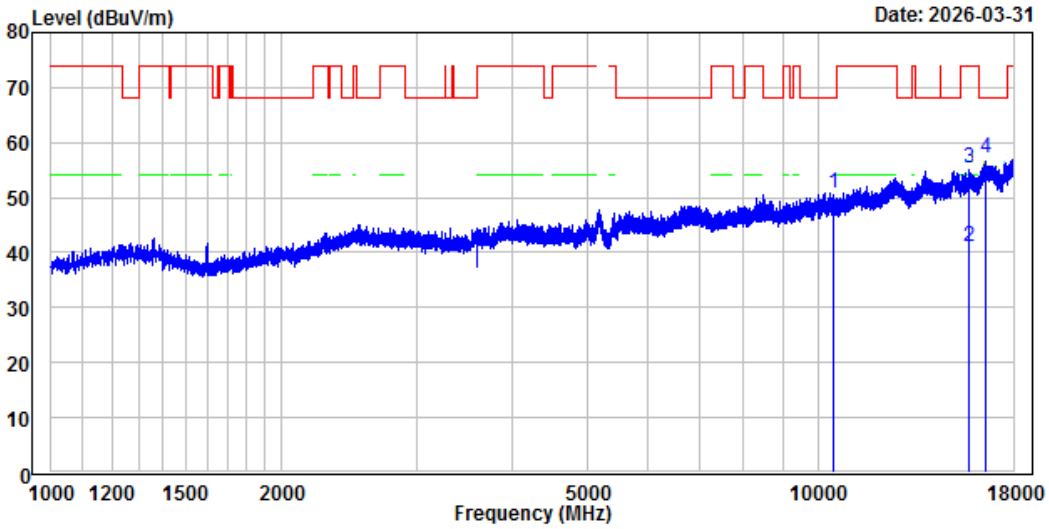



```
Condition       : 1m COM-POWER_AH-840 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-1 5240 MHz		
Test Range:	1 GHz ~ 18 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH



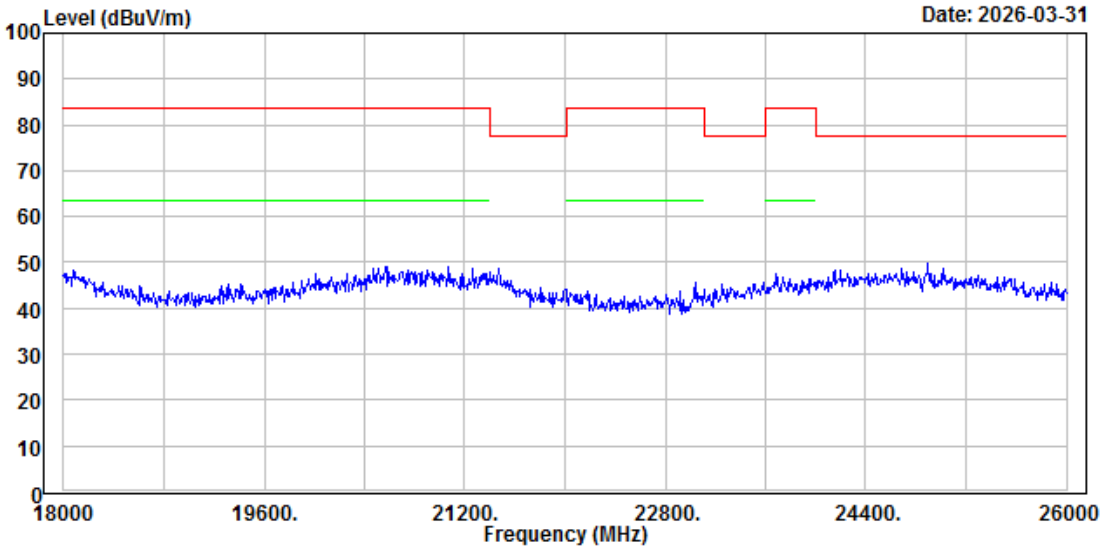
Condition : 3m EMCO_3117_82847 VERTICAL
POWER :
OPERATOR : JEFFRY T:22 H:64 P:1018
EUT&MODEL : JP24
: POWER SETTING 10

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	10481.060	50.75	57.86	-7.11	68.20	-17.45	384	346	VERTICAL	Peak
2	15722.110	41.21	47.47	-6.26	54.00	-12.79	298	215	VERTICAL	Average
3	15722.110	55.32	61.58	-6.26	74.00	-18.68	298	215	VERTICAL	Peak
4	16602.000	57.21	62.07	-4.86	68.20	-10.99	332	108	VERTICAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. The peak level meets average limit, so average value doesn't need be recorded.

Test Mode:	Continuous Transmitting U-NII-1 5240 MHz		
Test Range:	18 GHz ~ 26 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

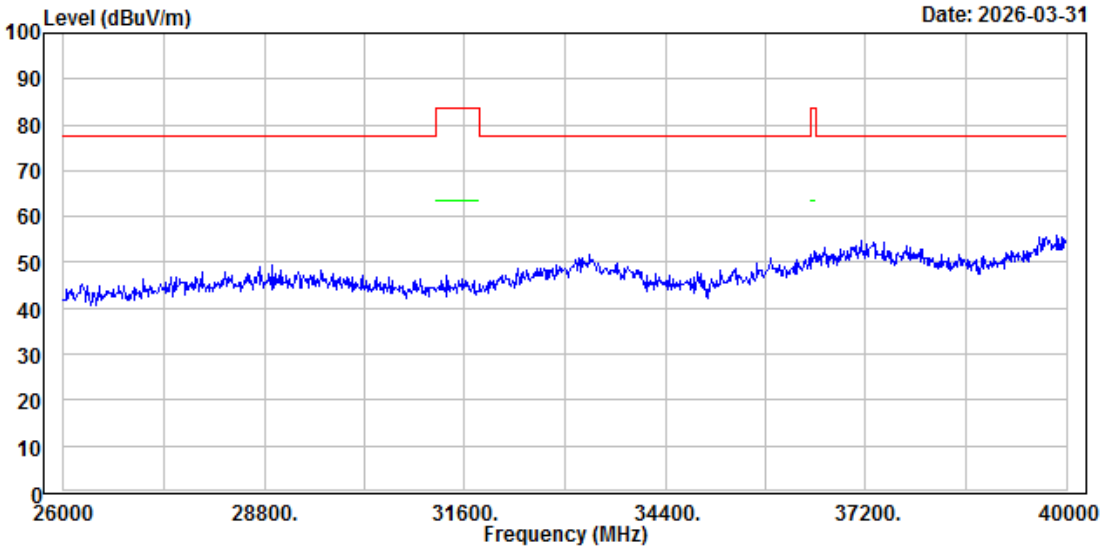



```
Condition       : 1m COM-POWER_AH-840 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-1 5240 MHz		
Test Range:	26 GHz ~ 40 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

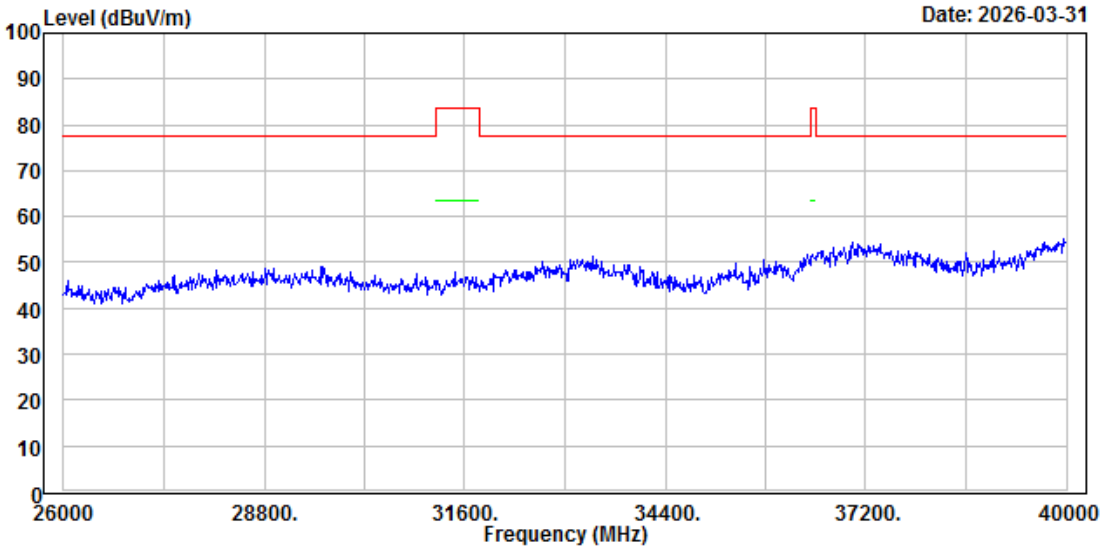



```
Condition       : 1m COM-POWER_AH-840 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-3 5745 MHz		
Test Range:	1 GHz ~ 18 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

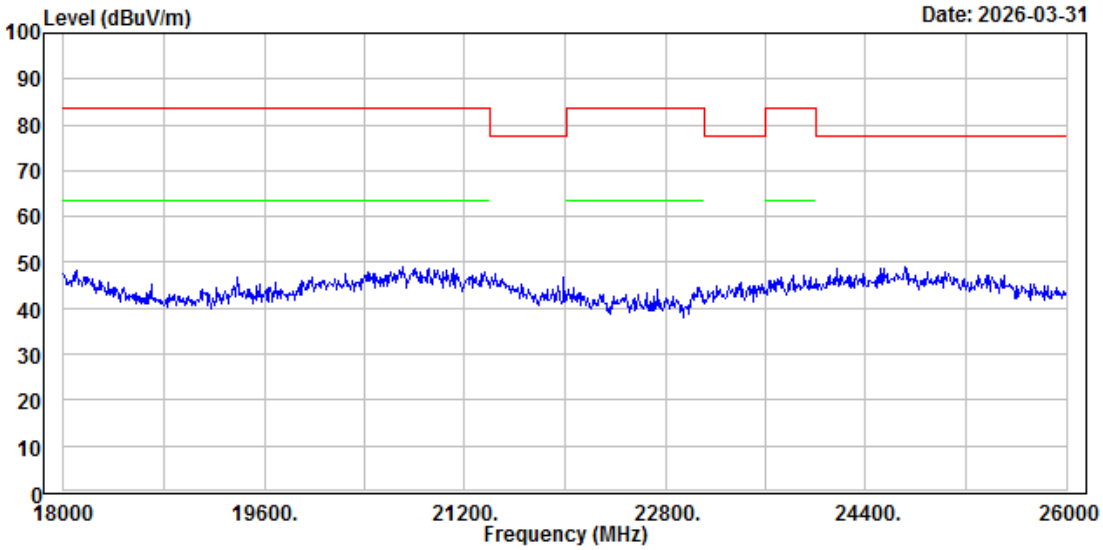



```
Condition       : 1m COM-POWER_AH-840 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. The peak level meets average limit, so average value doesn't need be recorded.

Test Mode:	Continuous Transmitting U-NII-3 5745 MHz		
Test Range:	18 GHz ~ 26 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

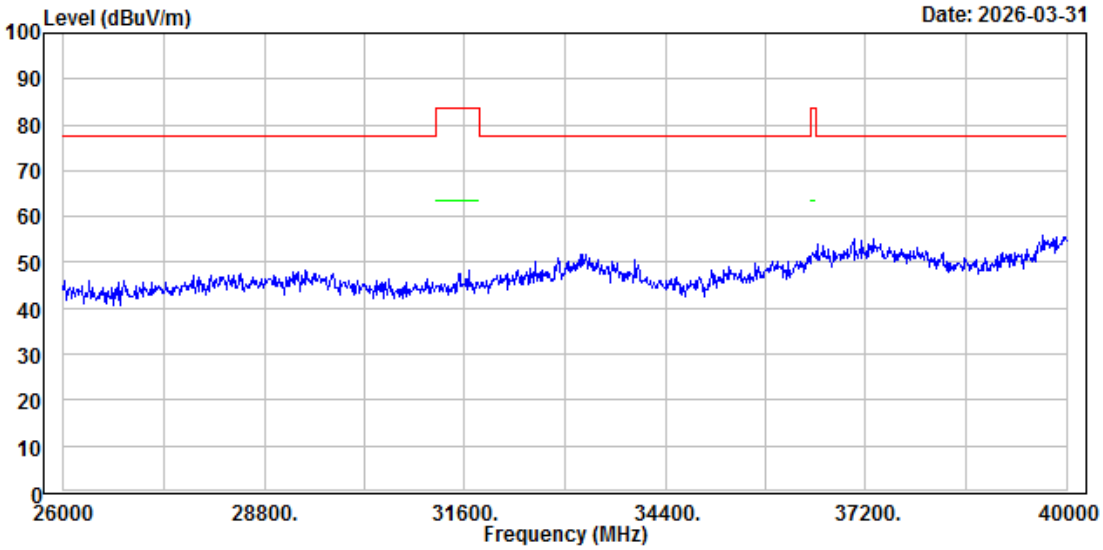



```
Condition       : 1m COM-POWER_AH-840 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-3 5745 MHz		
Test Range:	26 GHz ~ 40 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

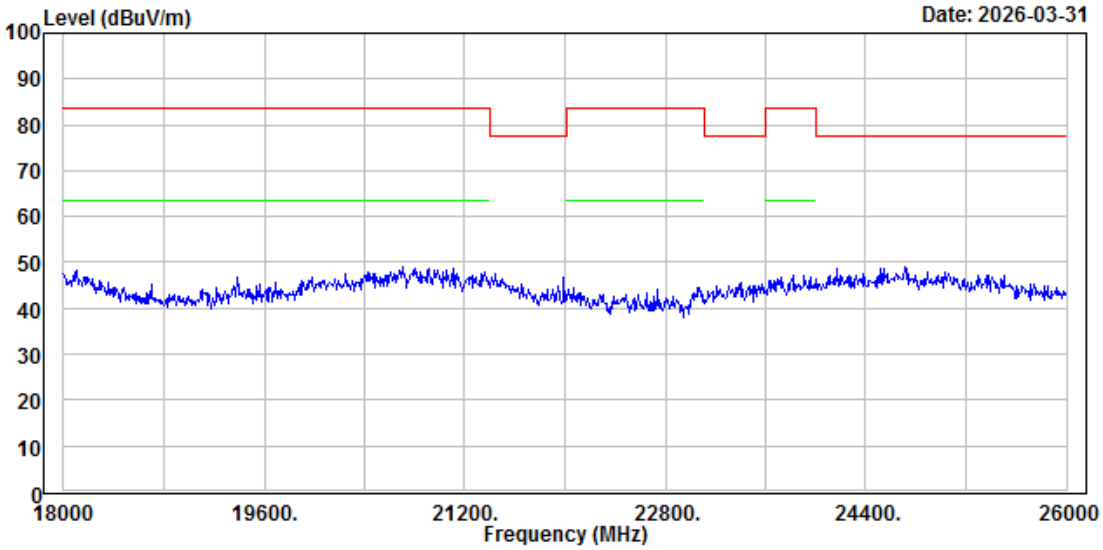



```
Condition       : 1m COM-POWER_AH-840 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-3 5745 MHz		
Test Range:	1 GHz ~ 18 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

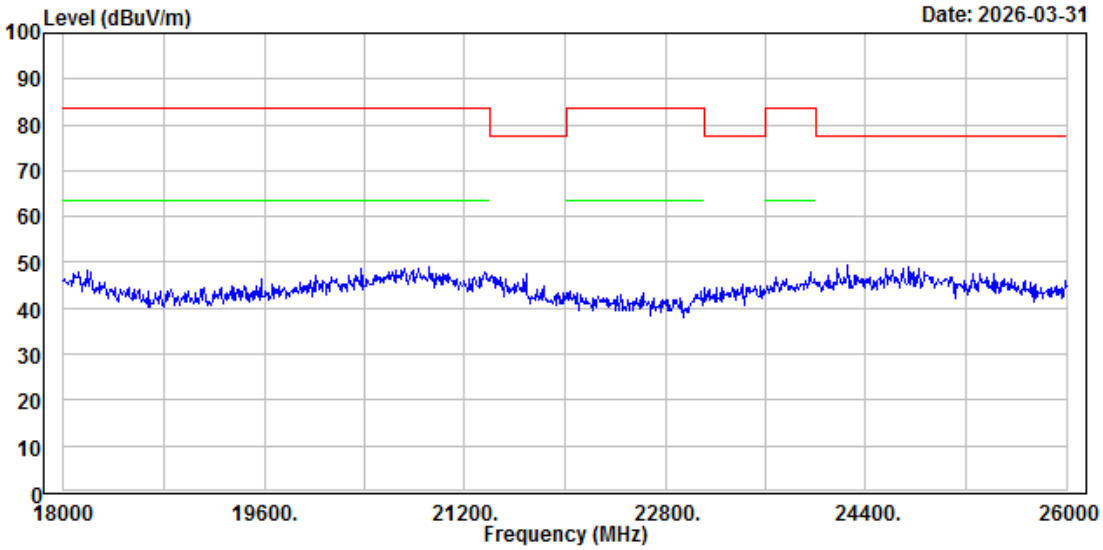



```
Condition       : 1m COM-POWER_AH-840 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. The peak level meets average limit, so average value doesn't need be recorded.

Test Mode:	Continuous Transmitting U-NII-3 5745 MHz		
Test Range:	18 GHz ~ 26 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

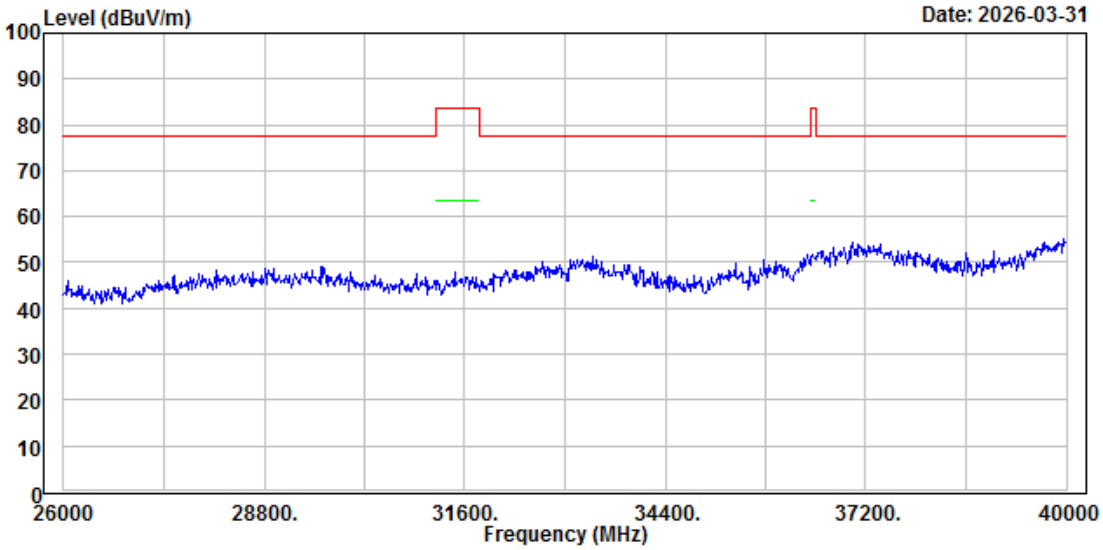



```
Condition       : 1m COM-POWER_AH-840 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-3 5745 MHz		
Test Range:	26 GHz ~ 40 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

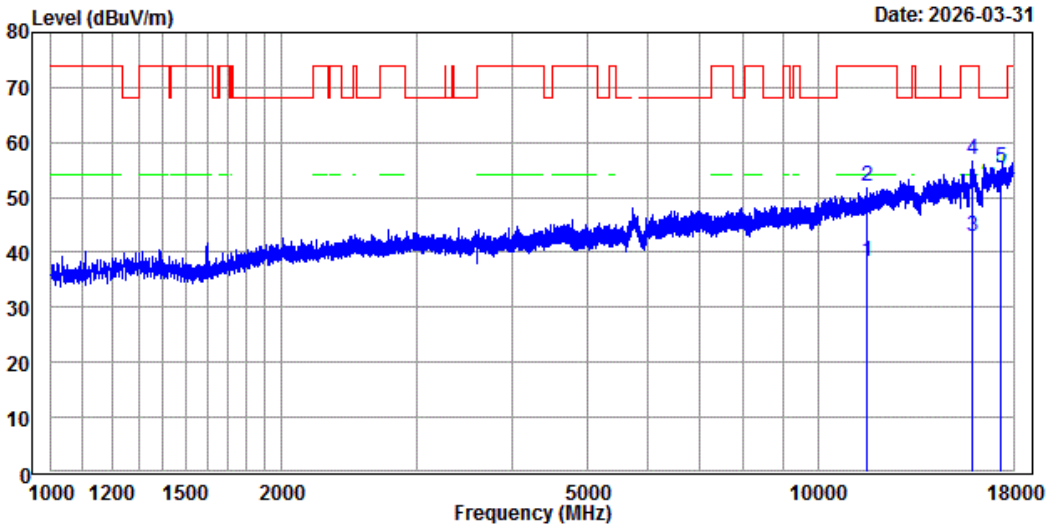



```
Condition       : 1m COM-POWER_AH-840 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-3 5785 MHz		
Test Range:	1 GHz ~ 18 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH



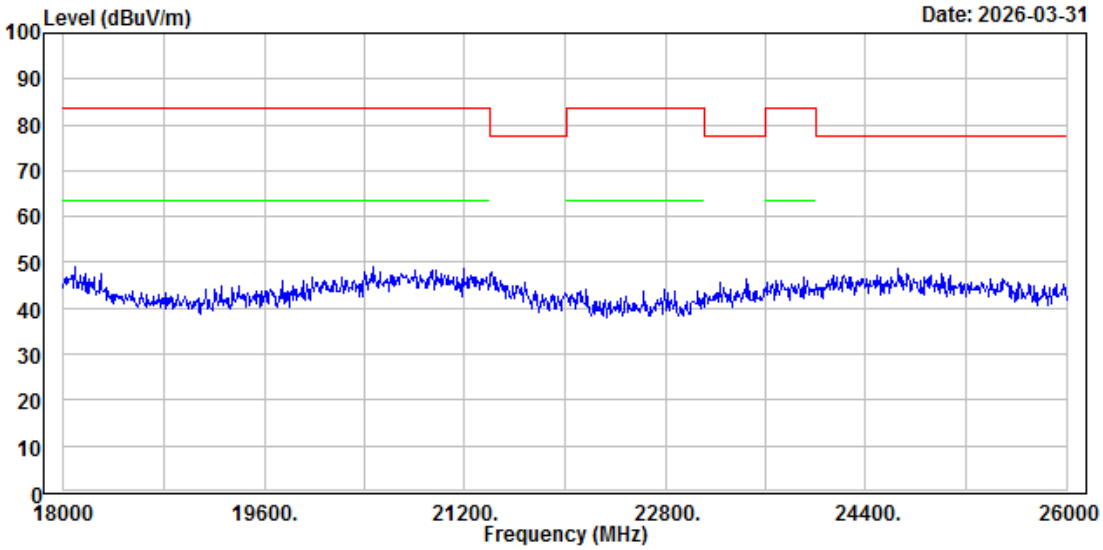

```
Condition          : 3m EMCO_3117_82847 HORIZONTAL
POWER              :
OPERATOR           : JEFFRY T:22 H:64 P:1018
EUT&MODEL          : JP24
                   : POWER SETTING 10
```

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	11570.820	38.21	44.29	-6.08	54.00	-15.79	259	237	HORIZONTAL	Average
2	11570.820	52.16	58.24	-6.08	74.00	-21.84	259	237	HORIZONTAL	Peak
3	15941.490	43.04	48.79	-5.75	54.00	-10.96	340	157	HORIZONTAL	Average
4	15941.490	56.81	62.56	-5.75	74.00	-17.19	340	157	HORIZONTAL	Peak
5	17354.540	55.26	59.21	-3.95	68.20	-12.94	291	82	HORIZONTAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. The peak level meets average limit, so average value doesn't need be recorded.

Test Mode:	Continuous Transmitting U-NII-3 5785 MHz		
Test Range:	18 GHz ~ 26 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

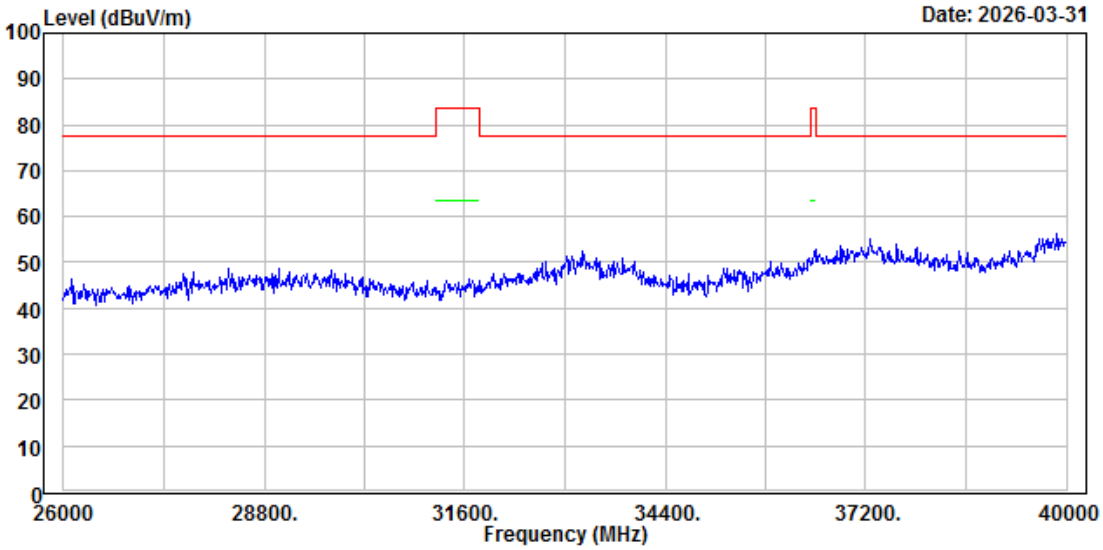



```
Condition       : 1m COM-POWER_AH-840 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-3 5785 MHz		
Test Range:	26 GHz ~ 40 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

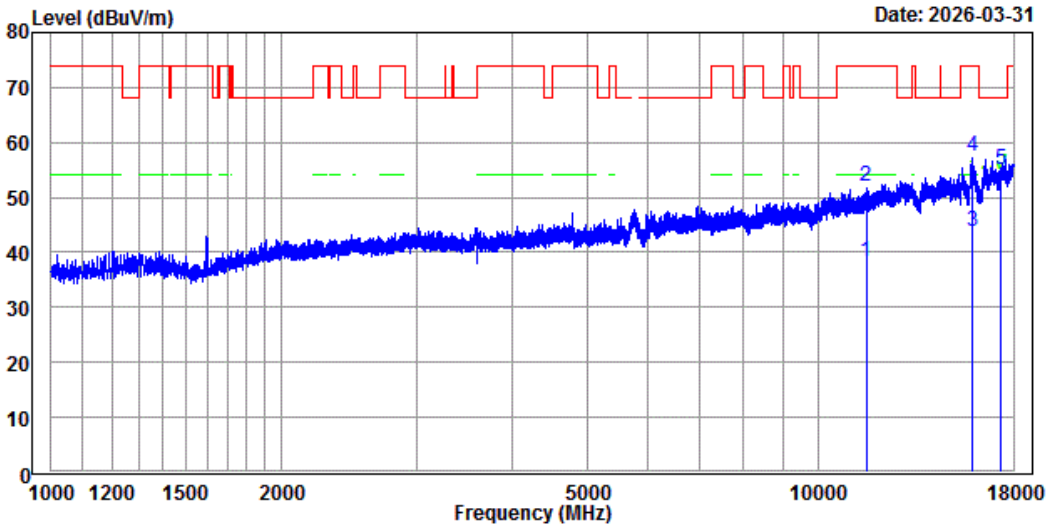



```
Condition       : 1m COM-POWER_AH-840 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-3 5785 MHz		
Test Range:	1 GHz ~ 18 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH



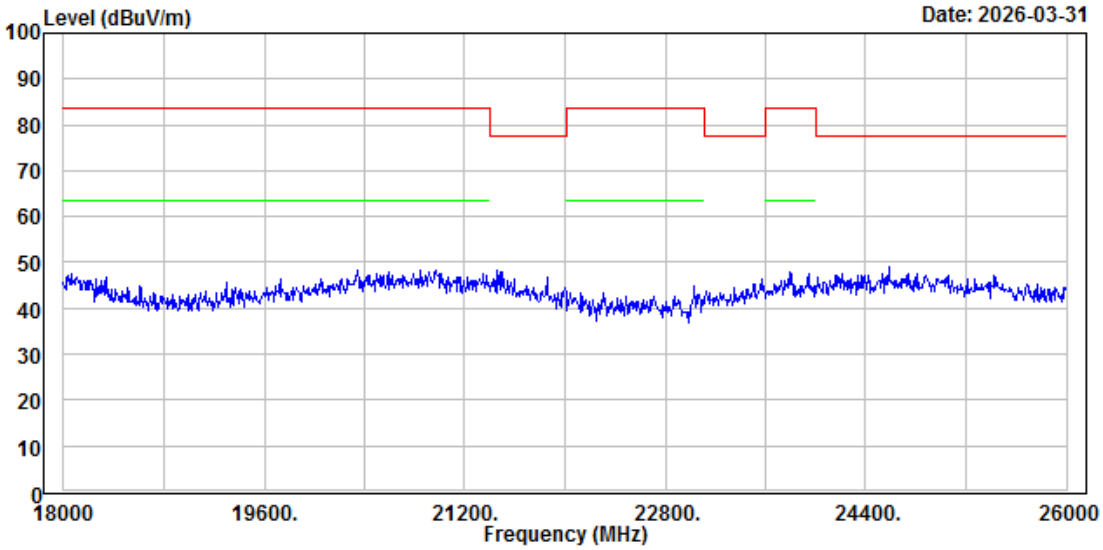
Condition : 3m EMCO_3117_82847 VERTICAL
POWER :
OPERATOR : JEFFRY T:22 H:64 P:1018
EUT&MODEL : JP24
: POWER SETTING 10

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	11567.770	38.23	44.31	-6.08	54.00	-15.77	400	148	VERTICAL	Average
2	11567.770	52.02	58.10	-6.08	74.00	-21.98	400	148	VERTICAL	Peak
3	15884.280	43.69	49.50	-5.81	54.00	-10.31	321	210	VERTICAL	Average
4	15884.280	57.47	63.28	-5.81	74.00	-16.53	321	210	VERTICAL	Peak
5	17355.220	55.20	59.14	-3.94	68.20	-13.00	360	287	VERTICAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. The peak level meets average limit, so average value doesn't need be recorded.

Test Mode:	Continuous Transmitting U-NII-3 5785 MHz		
Test Range:	18 GHz ~ 26 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

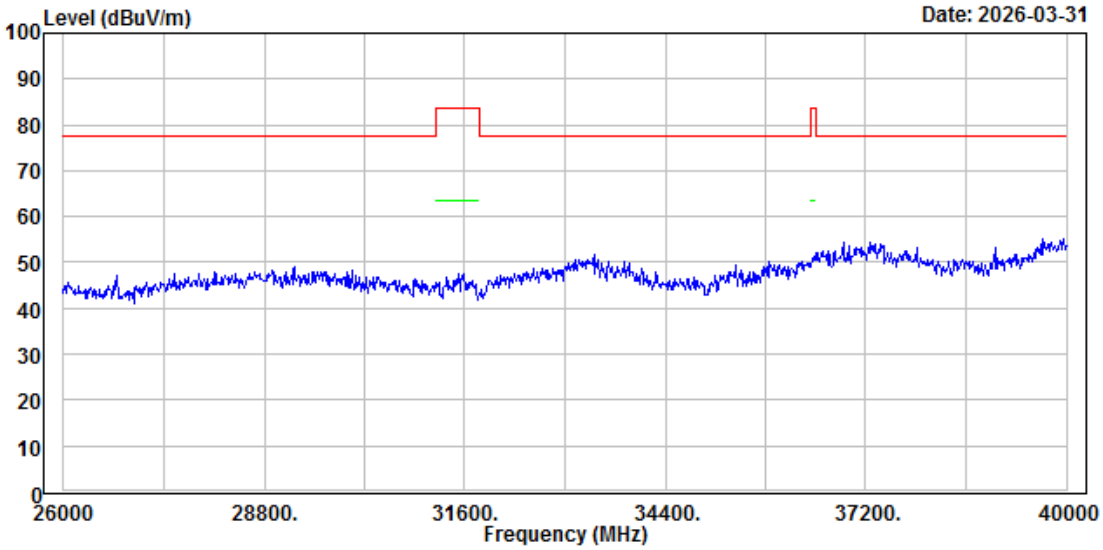



```
Condition       : 1m COM-POWER_AH-840 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-3 5785 MHz		
Test Range:	26 GHz ~ 40 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

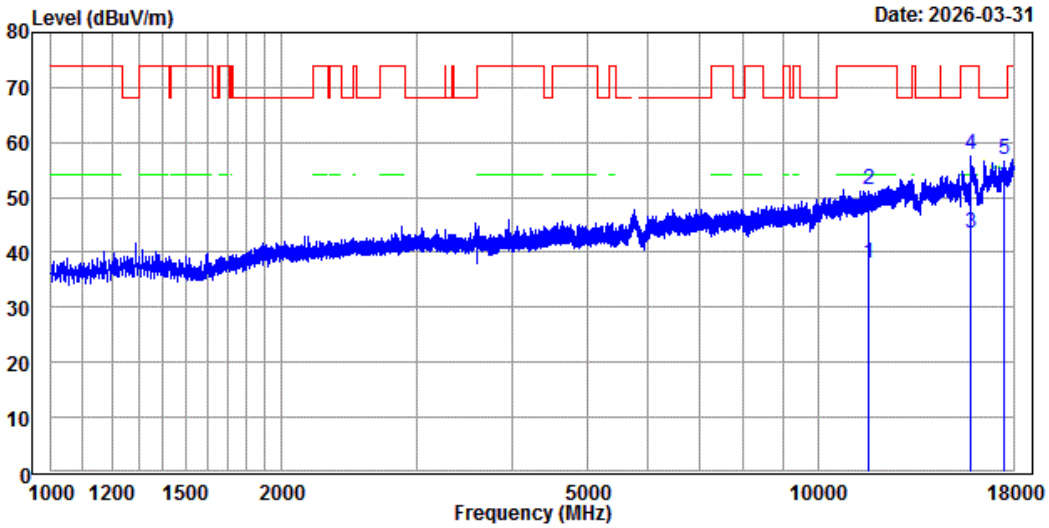



```
Condition       : 1m COM-POWER_AH-840 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-3 5825 MHz		
Test Range:	1 GHz ~ 18 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH



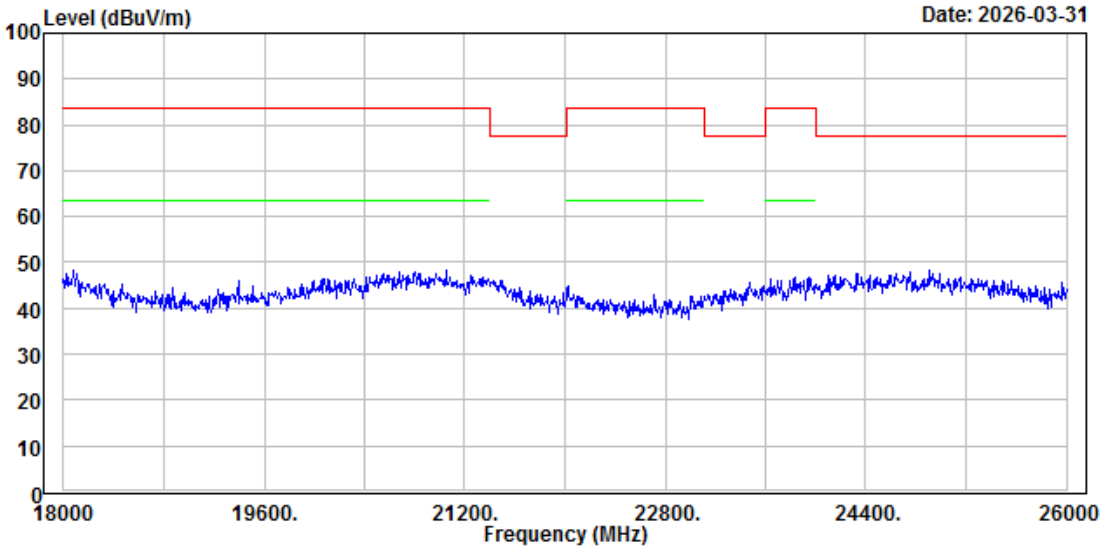
Condition : 3m EMCO_3117_82847 HORIZONTAL
POWER :
OPERATOR : JEFFRY T:22 H:64 P:1018
EUT&MODEL : JP24
: POWER SETTING 10

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	11652.220	37.95	44.03	-6.08	54.00	-16.05	302	240	HORIZONTAL	Average
2	11652.220	51.52	57.60	-6.08	74.00	-22.48	302	240	HORIZONTAL	Peak
3	15873.500	43.53	49.40	-5.87	54.00	-10.47	390	88	HORIZONTAL	Average
4	15873.500	57.73	63.60	-5.87	74.00	-16.27	390	88	HORIZONTAL	Peak
5	17472.690	57.00	60.49	-3.49	68.20	-11.20	262	233	HORIZONTAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. The peak level meets average limit, so average value doesn't need be recorded.

Test Mode:	Continuous Transmitting U-NII-3 5825 MHz		
Test Range:	18 GHz ~ 26 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

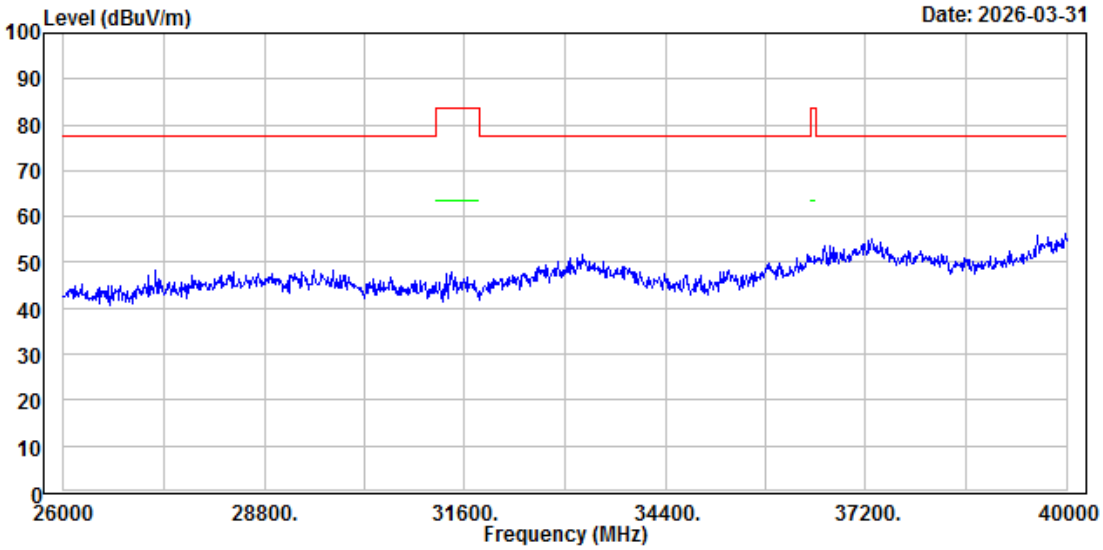



```
Condition       : 1m COM-POWER_AH-840 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-3 5825 MHz		
Test Range:	26 GHz ~ 40 GHz		
Polarization:	Horizontal	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

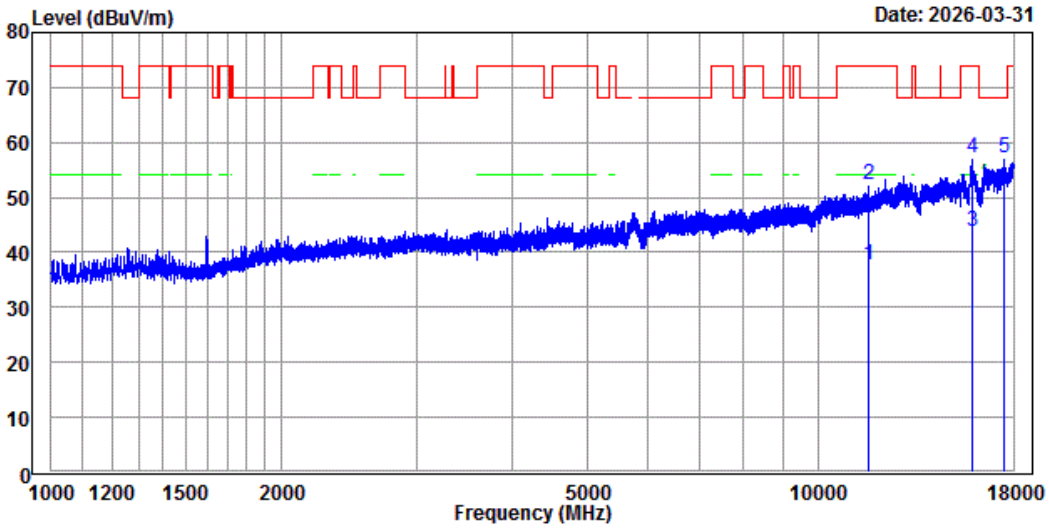



```
Condition       : 1m COM-POWER_AH-840 HORIZONTAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-3 5825 MHz		
Test Range:	1 GHz ~ 18 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH



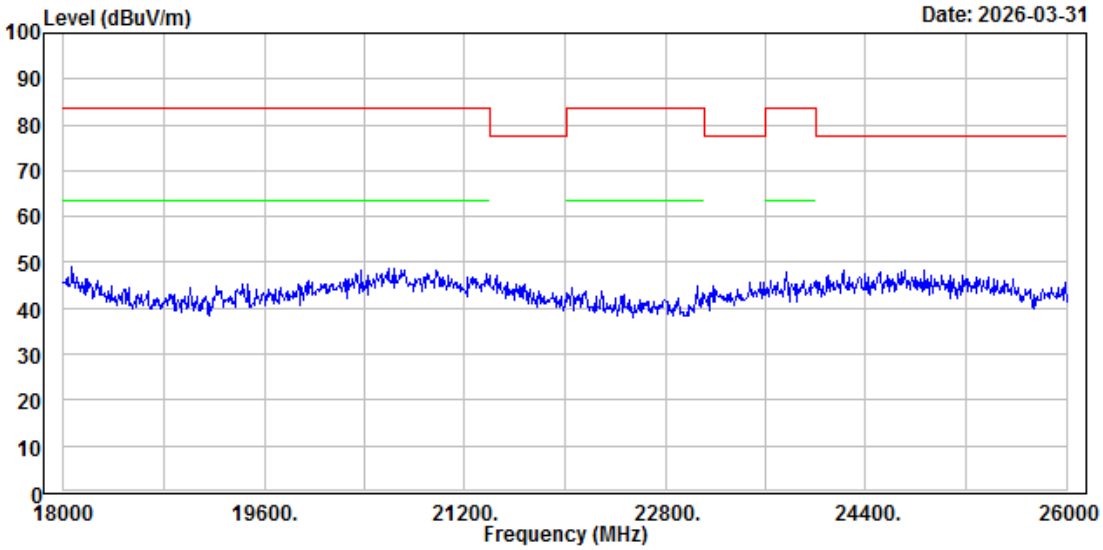
Condition : 3m EMCO_3117_82847 VERTICAL
POWER :
OPERATOR : JEFFRY T:22 H:64 P:1018
EUT&MODEL : JP24
: POWER SETTING 10

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	11648.840	37.79	43.87	-6.08	54.00	-16.21	354	160	VERTICAL	Average
2	11648.840	52.17	58.25	-6.08	74.00	-21.83	354	160	VERTICAL	Peak
3	15901.090	43.67	49.39	-5.72	54.00	-10.33	280	40	VERTICAL	Average
4	15901.090	57.27	62.99	-5.72	74.00	-16.73	280	40	VERTICAL	Peak
5	17472.870	57.28	60.77	-3.49	68.20	-10.92	385	142	VERTICAL	Peak

Note:

1. Level (dBuV/m) = Read level + Factor.
2. Factor (dB/m) = Cable Loss + Antenna Factor – Gain of Preamplifier.
3. Over Limit (dB) = Level – Limit line
4. The peak level meets average limit, so average value doesn't need be recorded.

Test Mode:	Continuous Transmitting U-NII-3 5825 MHz		
Test Range:	18 GHz ~ 26 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH

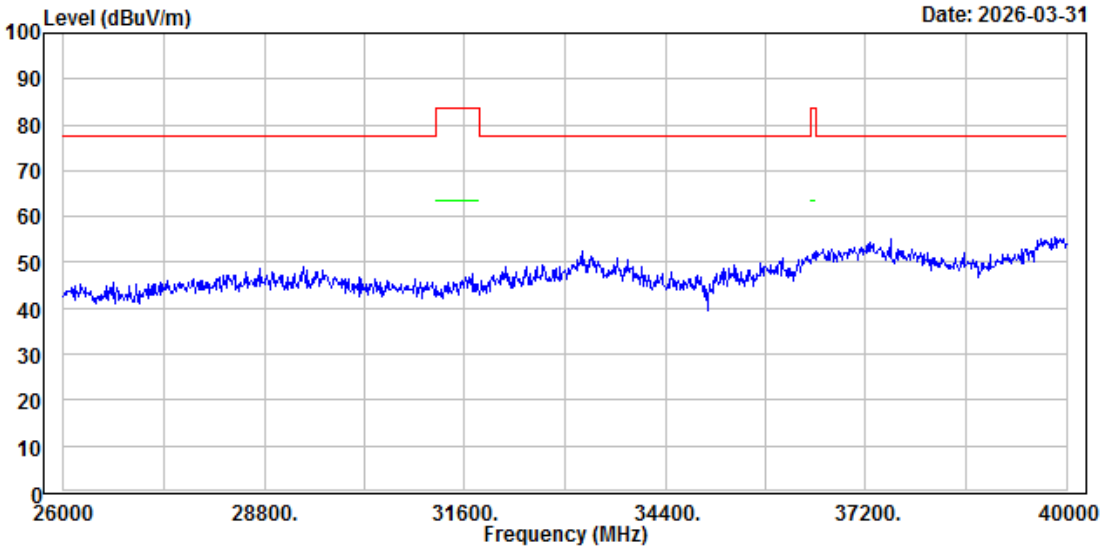



```
Condition       : 1m COM-POWER_AH-840 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

Test Mode:	Continuous Transmitting U-NII-3 5825 MHz		
Test Range:	26 GHz ~ 40 GHz		
Polarization:	Vertical	**Tester:**	Jeffry
Ambient Temp.:	22 ℃	Relative Humidity:	64% RH




```
Condition       : 1m COM-POWER_AH-840 VERTICAL
POWER           :
OPERATOR        : JEFFRY T:22 H:64 P:1018
EUT&MODEL       : JP24
```

Note:

1. Other radiated emissions were not recorded as they are below the noise floor.

6 Transmission In The Absence of data

Result: Pass

6.1 Applied standard

According to **47 CFR § 15.407(c)**

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

6.2 Test Data

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby from remote device and verify whether it shall resend or discontinue transmission.

7 Frequency Stability

Result: Pass

7.1 Applied standard

According to **FCC § 15.407(g) & § 2.1055**:
Frequency stability is a measure of frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at an appropriate reference temperature and the rated supply voltage.

When the measurement method of transmitter frequency stability is not stated in the applicable **FCC** reference standards, the following conditions apply:

a. The reference temperature for radio transmitters is $+20°C$ $(+68°F)$.
b. A hand-held device that is only capable of operating using internal batteries shall be tested at the battery's nominal voltage, and again at the battery's operating end-point voltage, which shall be specified by the equipment manufacturer. For this test, either a battery or an external power supply can be used.
c. The operating carrier frequency shall be set up in accordance with the manufacturer's published operation and instruction manual prior to the commencement of these tests. No adjustment of any frequency-determining circuit element shall be made subsequent to this initial set-up.

With the transmitter installed in an environmental test chamber, the unmodulated carrier frequency and frequency stability shall be measured under the conditions specified below: A sufficient stabilization period at each temperature shall be used prior to each frequency measurement.

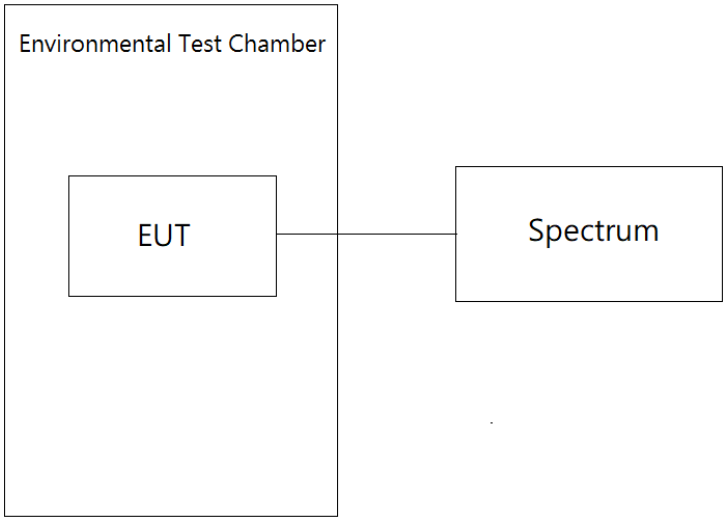
For FCC Part 15 devices, the following measurement conditions apply:

a. at the temperatures of -30°C (-22°F), +20°C (+68°F) and +50°C (+122°F), and at the manufacturer's rated supply voltage.
b. at the temperature of +20°C (+68°F) and at 85% and 115% of the manufacturer's rated supply voltage.

If the frequency stability limits are only met within a temperature range that is smaller than the specified range, the requirement will be deemed to be met if the transmitter is automatically prevented from operating outside this smaller range and if the published operating characteristics are revised to reflect this restricted range.

According to **FCC § 15.407(g)**, manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained **within the band of operation** under all conditions of normal operation as specified in the users manual.

7.2 Test Configurations



7.3 Test Data

Test Mode : Continuous Transmitting	**Tester :** Hunter
Ambient Temperature : 23℃	**Relative Humidity :** 58%
Test Date : 2026/01/21	

802.11a Normal condition			
Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)
UNII-1	5180.0000	5180.0003	3.0000
	5200.0000	5200.0002	2.0000
	5240.0000	5240.0004	4.0000
UNII-3	5725.0000	5725.0003	3.0000
	5785.0000	5785.0003	3.0000
	5825.0000	5825.0003	3.0000
802.11a Extreme condition High Temperature			
Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)
UNII-1	5180.0000	5180.0002	2.0000
	5200.0000	5200.0002	2.0000
	5240.0000	5240.0003	3.0000
UNII-3	5725.0000	5725.0003	3.0000
	5785.0000	5785.0003	3.0000
	5825.0000	5825.0003	3.0000
802.11a Extreme condition Low Temperature			
Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)
UNII-1	5180.0000	5180.0002	2.0000
	5200.0000	5200.0002	2.0000
	5240.0000	5240.0003	3.0000
UNII-3	5725.0000	5725.0003	3.0000
	5785.0000	5785.0002	2.0000
	5825.0000	5825.0003	3.0000

802.11ac VHT20 Normal condition			
Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)
UNII-1	5180.0000	5180.0002	2.0000
	5200.0000	5200.0002	2.0000
	5240.0000	5240.0003	3.0000
UNII-3	5725.0000	5725.0003	3.0000
	5785.0000	5785.0003	3.0000
	5825.0000	5825.0003	3.0000
802.11ac VHT20 Extreme condition High Temperature			
Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)
UNII-1	5180.0000	5180.0003	3.0000
	5200.0000	5200.0004	4.0000
	5240.0000	5240.0004	4.0000
UNII-3	5725.0000	5725.0003	3.0000
	5785.0000	5785.0003	3.0000
	5825.0000	5825.0003	3.0000
802.11ac VHT20 Extreme condition Low Temperature			
Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)
UNII-1	5180.0000	5180.0003	3.0000
	5200.0000	5200.0004	4.0000
	5240.0000	5240.0004	4.0000
UNII-3	5725.0000	5725.0003	3.0000
	5785.0000	5785.0002	2.0000
	5825.0000	5825.0003	3.0000

802.11ac VHT40 Normal condition			
Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)
UNII-1	5190.0000	5190.0004	4.0000
	5230.0000	5230.0003	3.0000
UNII-3	5755.0000	5755.0003	3.0000
	5795.0000	5795.0003	3.0000
802.11ac VHT40 Extreme condition High Temperature			
Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)
UNII-1	5190.0000	5190.0003	3.0000
	5230.0000	5230.0003	3.0000
UNII-3	5755.0000	5755.0003	3.0000
	5795.0000	5795.0004	4.0000
802.11ac VHT40 Extreme condition Low Temperature			
Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)
UNII-1	5190.0000	5190.0002	2.0000
	5230.0000	5230.0004	4.0000
UNII-3	5755.0000	5755.0002	2.0000
	5795.0000	5795.0002	2.0000

802.11ac VHT80 Normal condition			
Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)
UNII-1	5210.0000	5210.0003	3.0000
UNII-3	5775.0000	5775.0002	2.0000
802.11ac VHT80 Extreme condition High Temperature			
Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)
UNII-1	5210.0000	5210.0003	3.0000
UNII-3	5775.0000	5775.0002	2.0000
802.11ac VHT80 Extreme condition Low Temperature			
Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)
UNII-1	5210.0000	5210.0003	3.0000
UNII-3	5775.0000	5775.0004	4.0000

8 TPC and DFS Measurement

Result: NA

8.1 Applied standard for TPC

According to FCC § 15.407(a)(2),

The maximum conducted output power shall not exceed 250mW or 11 + 10 log10 B, dBm, whichever power is less. The power spectral density shall not exceed 11dBm in any 1.0 MHz band. B is the 26 dB emission bandwidth in MHz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. Note that U-NII devices operating in the 5.25-5.35 GHz band with a maximum e.i.r.p. greater than 500 mW shall employ a TPC mechanism in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p.

8.2 Applied standard for DFS

According to FCC § 15.407(h) and KDB 905462 D02,

Note: For U-NII devices operating in the 5250-5350 MHz and 5470-5725 MHz bands, DFS radar detection is required. Although FCC allows operation in the 5600-5650 MHz band, special care must be taken to protect Terminal Doppler Weather Radar (TDWR) systems operating in this band in accordance with KDB 443999.

Devices

operating in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the following:

(a) Devices shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. The minimum DFS radar signal detection threshold is -62 dBm for devices with a maximum e.i.r.p. less than 200 mW and a power spectral density less than 10 dBm/MHz, and -64 dBm for devices with a maximum e.i.r.p. of 200 mW to 1 W or a power spectral density of 10 dBm/MHz or greater. The detection threshold power is the received power, averaged over a 1-microsecond reference to a 0 dBi antenna. The DFS process shall provide a uniform spreading of the loading over all the available channels.

Note: Test procedures for demonstrating compliance with the DFS radar detection requirements set out in this section shall be in accordance with the DFS test procedures published by the U.S. Federal Communications Commission (FCC) in KDB 905462 D02.

(b) Operational requirements: the requirement for channel availability check time applies in the master operational mode. The requirement for channel move time applies in both the master and slave operational modes.

(i) In-service monitoring: an U-NII device shall be able to monitor the operating channel to check that a co-channel radar has not moved or started operation within range of the device. During in-service monitoring, the radar detection function continuously searches for radar signals between normal transmissions.

(ii) Channel availability check time: the device shall check if there is a radar system already operating on the channel before it initiates a transmission on a channel and when it moves to a channel. The device may start using the channel if no radar signals with a power level greater than the interference threshold value specified above is detected within 60 seconds.

(iii) Channel move time: after a radar signal is detected, the device shall cease all transmissions on the operating channel within 10 seconds. Transmission during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. Intermittent management and control signals may also be sent during the remaining time to facilitate vacating the operating channel.

(iv) Channel closing transmission time: the maximum channel closing transmission time is 200 ms plus an aggregate of 60 ms over the remaining 10 second period.

(v) Non-occupancy period: a channel that has been flagged as containing a radar signal, either by a channel availability check or in-service monitoring, is subject to a 30-minute non-occupancy period where the channel cannot be used by the U-NII device. The non-occupancy period starts from the time that the radar signal is detected.

Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Slave	Client(without radar detection)	Client(with radar detection)
Non-occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
Uniform Spreading	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Slave	Client(without radar detection)	Client(with radar detection)
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes

Refer to KDB Number: 905462 APPENDIX B COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5.25-5.35 GHz AND 5.47-5.725 GHz BANDS INCORPORATING
DYNAMIC FREQUENCY SELECTION.

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.	

Table 4: DFS Response requirement values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 80% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: The instant that the *Channel Move Time* and the *Channel Closing Transmission Time* begins is as follows:

- For the Short Pulse Radar Test Signals this instant is the end of the *Burst*.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar *Burst* generated.
- For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the *Radar Waveform*.

Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Table 5: Radar Test Waveforms

Short Pulse Radar

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. For Short Pulse Radar Type 1, the same waveform is used a minimum of 30 times. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms

Long Pulse Radar

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per *Burst*	Number of *Bursts*	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Frequency Hopping Radar

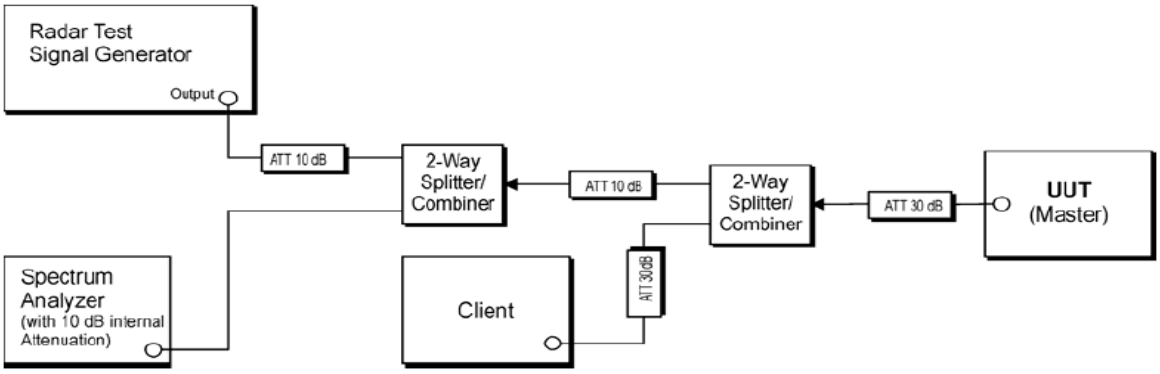
Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm: 3

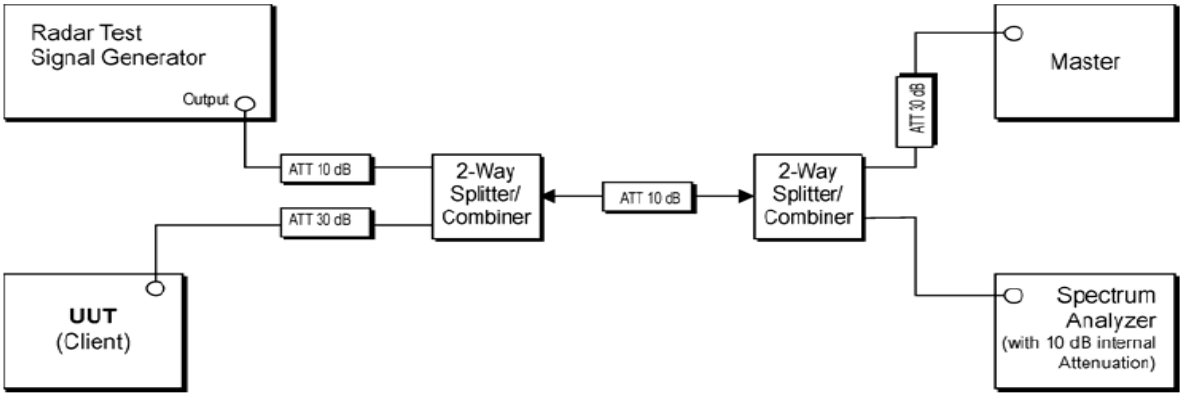
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

8.3 Test Configurations

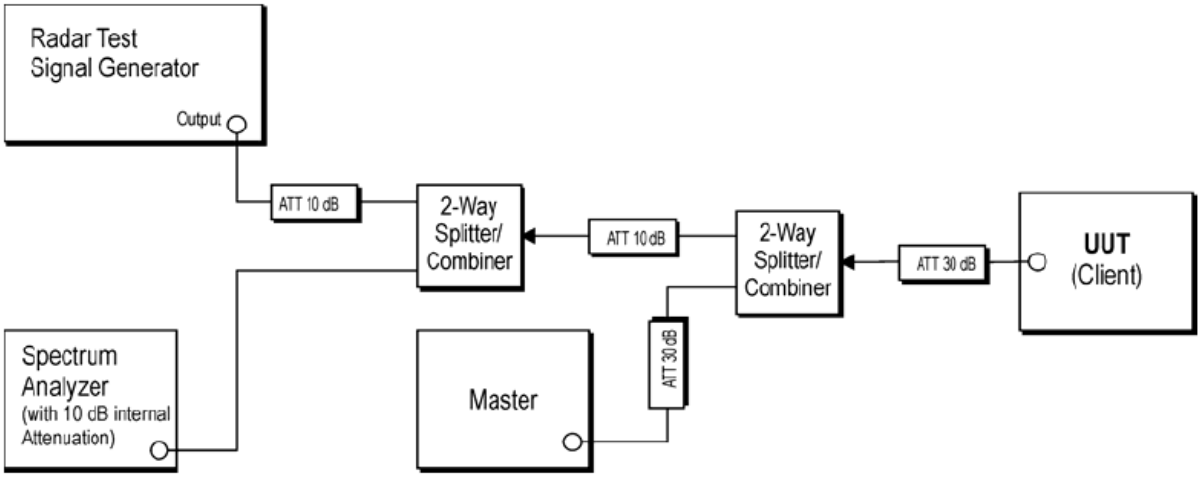
Setup for Master with injection at the Master



Setup for Client with injection at the Master



Setup for Client with injection at the Client



Note: device under test are configured with AP as IP based by streaming MPEG video, 30 frames per seconds

8.4 Test Data

N/A

9 Conducted Emission Measurement

Result: Pass

9.1 Limits for Emission Measurement

AC line conduction emission limit is as below table.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency.

9.2 Test Procedures

a. The EUT was set up per the test configuration figured in the next section of this chapter to simulate the typical usage per the user's manual.

b. If the EUT is tabletop equipment, it was placed on a non-conducted table with a height of 0.8 meters above the reference ground plane and 0.4 meters from the conducting wall of the shielded room. Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height of 12 millimeters above the reference ground plane.

c. Connect the EUT's power source to the appropriate power mains through the LISN.

d. All the other peripherals are connected to the 2nd LISN, if any.

e. The LISN was placed 0.8 meters from the EUT and at least 0.8 meters from other units and other metal planes.

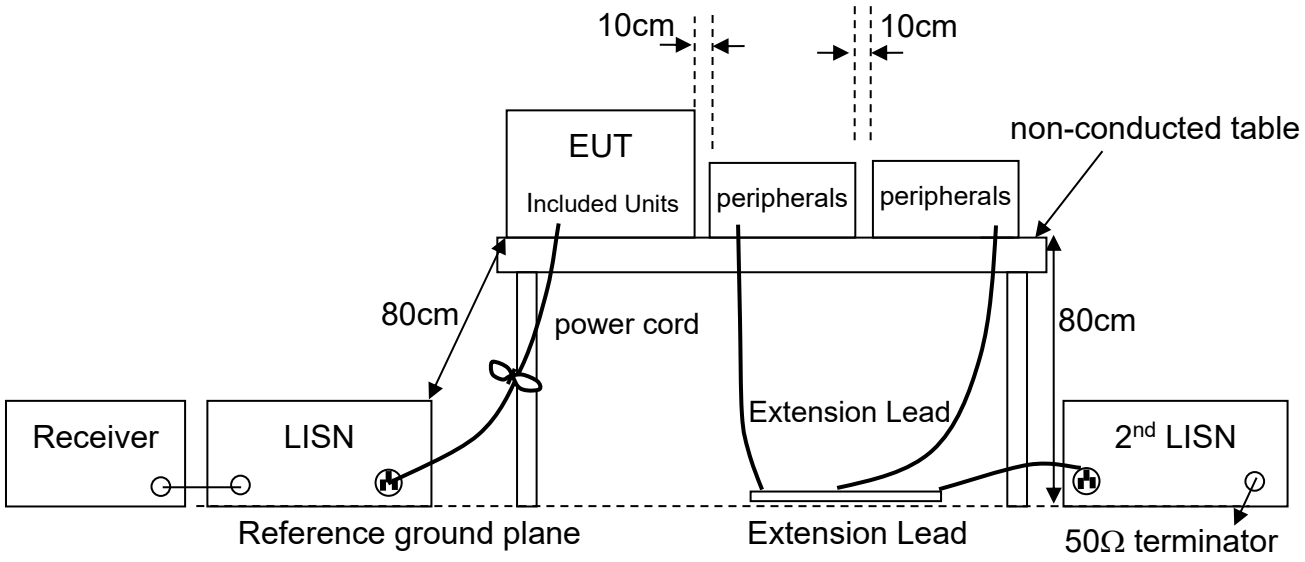
f. Measure the conducted emissions on each power line (Neutral Line and Line 1 – Hot side) of the EUT's power source by using the test receiver connected to the coupling RF output port of LISN.

g. Rapidly scan the signal from 150kHz to 30MHz by using the receiver through the Maximum-Peak detector to determine those frequencies associated with higher emission levels for each measured line.Receiver setting is IF bandwidth=9 kHz.

h. Then measure the maximum level of conducted disturbance for each frequency found from step g. by using the receiver through the Quasi-Peak and Average detectors per CISPR 16-1.

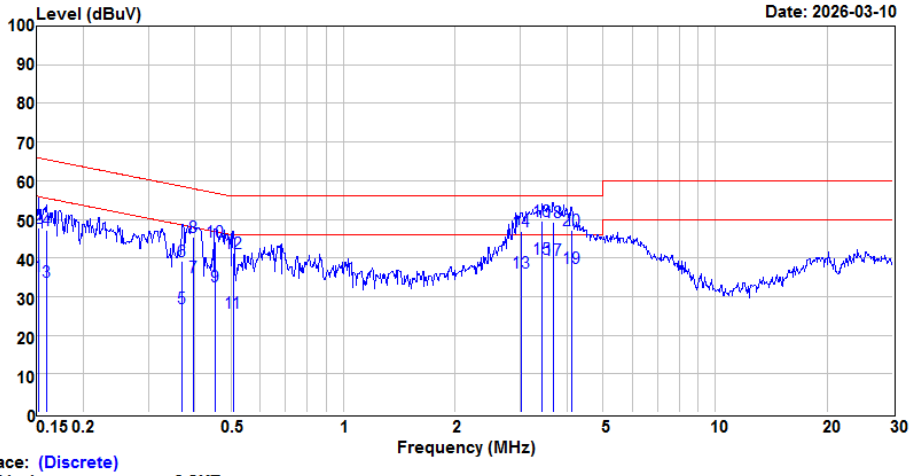
i. Record the level for each frequency and compare with the required limit.

9.3 Test Configurations



9.4 Test Data

Test Mode:	Normal Used Mode		
Phase:	Line	**Tester:**	Tevin
Ambient Temp.:	27 ℃	**Relative Humidity:**	60% RH



Trace: (Discrete)

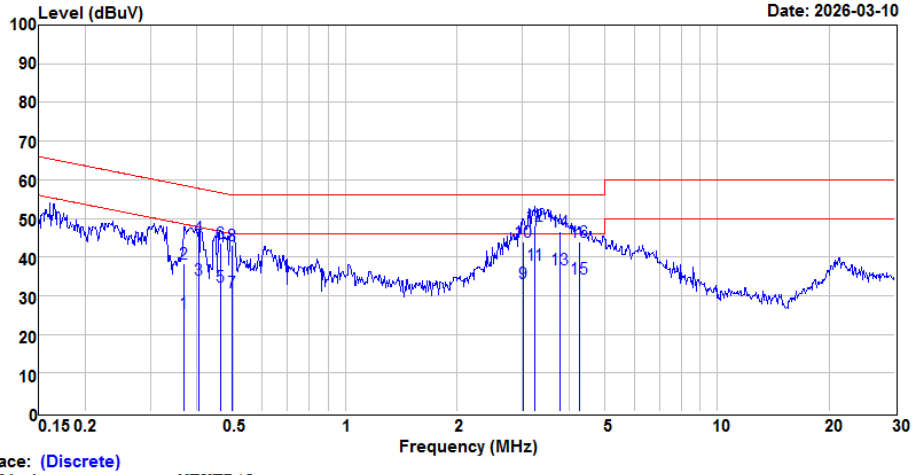
Condition : LINE
Power : 60Hz/120V
Operator : Tevin T27/H60/P1013
EUT&Mode1 : JP24

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB		
1	0.152	35.44	25.41	10.03	65.87	-30.43	LINE	Average
2	0.152	47.79	37.76	10.03	65.87	-18.08	LINE	QP
3	0.160	33.74	23.71	10.03	65.47	-31.73	LINE	Average
4	0.160	47.14	37.11	10.03	65.47	-18.33	LINE	QP
5	0.369	27.16	17.17	9.99	58.52	-31.36	LINE	Average
6	0.369	39.27	29.28	9.99	58.52	-19.25	LINE	QP
7	0.398	35.03	25.05	9.98	57.90	-22.87	LINE	Average
8	0.398	45.54	35.56	9.98	57.90	-12.36	LINE	QP
9	0.454	32.73	22.75	9.98	56.80	-24.07	LINE	Average
10	0.454	44.36	34.38	9.98	56.80	-12.44	LINE	QP
11	0.507	25.88	15.89	9.99	56.00	-30.12	LINE	Average
12	0.507	41.36	31.37	9.99	56.00	-14.64	LINE	QP
13	3.009	36.31	26.17	10.14	56.00	-19.69	LINE	Average
14	3.009	47.03	36.89	10.14	56.00	-8.97	LINE	QP
15	3.417	39.82	29.66	10.16	56.00	-16.18	LINE	Average
16	3.417	49.51	39.35	10.16	56.00	-6.49	LINE	QP
17	3.681	39.53	29.35	10.18	56.00	-16.47	LINE	Average
18	3.681	49.27	39.09	10.18	56.00	-6.73	LINE	QP
19	4.114	37.27	27.08	10.19	56.00	-18.73	LINE	Average
20	4.114	47.09	36.90	10.19	56.00	-8.91	LINE	QP

Note:

1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + insertion loss of LISN.
3. Q.P. is abbreviation of quasi-peak.

Test Mode:	Normal Used Mode		
Phase:	Neutral	**Tester:**	Tevin
Ambient Temp.:	27 ℃	**Relative Humidity:**	60% RH



Trace: (Discrete)

Condition : NEUTRAL
Power : 60Hz/120V
Operator : Tevin T27/H60/P1013
EUT&Model : JP24

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB		
1	0.369	25.40	15.43	9.97	48.52	-23.12	NEUTRAL	Average
2	0.369	38.41	28.44	9.97	58.52	-20.11	NEUTRAL	QP
3	0.404	34.20	24.24	9.96	47.77	-13.57	NEUTRAL	Average
4	0.404	45.14	35.18	9.96	57.77	-12.63	NEUTRAL	QP
5	0.464	32.29	22.33	9.96	46.63	-14.34	NEUTRAL	Average
6	0.464	43.72	33.76	9.96	56.63	-12.91	NEUTRAL	QP
7	0.497	30.96	21.00	9.96	46.05	-15.09	NEUTRAL	Average
8	0.497	43.09	33.13	9.96	56.05	-12.96	NEUTRAL	QP
9	3.009	33.27	23.15	10.12	46.00	-12.73	NEUTRAL	Average
10	3.009	43.93	33.81	10.12	56.00	-12.07	NEUTRAL	QP
11	3.241	37.97	27.84	10.13	46.00	-8.03	NEUTRAL	Average
12	3.241	47.98	37.85	10.13	56.00	-8.02	NEUTRAL	QP
13	3.779	36.86	26.70	10.16	46.00	-9.14	NEUTRAL	Average
14	3.779	46.57	36.41	10.16	56.00	-9.43	NEUTRAL	QP
15	4.269	34.40	24.21	10.19	46.00	-11.60	NEUTRAL	Average
16	4.269	43.86	33.67	10.19	56.00	-12.14	NEUTRAL	QP

Note:

1. Emission Level = reading value + correction factor.
2. Correction factor = cable loss + insertion loss of LISN.
3. Q.P. is abbreviation of quasi-peak.

11 Antenna Requirement

Result: Pass

11.1 Applied Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

11.2 Description of Antenna

Antenna Type	Brand	Model	Frequency Range (MHz)	Peak Gain (dBi)	Connector Type
PCB	Brito	OTDB1EM60-I0350	5150 ~ 5850	2.00	IPEX

~ End of Report ~