



TEST REPORT

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Report Number: 2504X06145E-RFA
FCC ID: 2AGNTMDE600958A
IC: 20910-MDE600958A

Test Standard (s)

FCC PART 15.247
RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2
RSS-247, ISSUE 3, AUGUST 2023

Sample Description

Product Name: EVO III 4T Pro
EVO III 4N Pro
EVO III 3M Pro
EVO III 4F Pro
Model No.: MDE-L, MDE
Trade Mark: AUTEL ROBOTICS
Date Received: 2025-09-30
Report Date: 2025-11-23

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

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EMC Engineer

Approved By:

Bob.Liao

Bob.Liao
EMC Engineer

Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. The information marked "#" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked. This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0. This report may contain data that are not covered by the accreditation scope and shall be marked with ▲. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, or any agency of the U.S. Government. Each test item follows the test standard(s) without deviation.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504X06145E-RFA	Original Report	2025-11-23

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name	EVO III 4T Pro EVO III 4N Pro EVO III 3M Pro EVO III 4F Pro			
Tested Model	MDE-L			
Multiple Model	MDE			
Model Difference [#]	MDE-L has a certified LTE module and MDE doesn't. Please refer to DOS letter for more detail. The applicant provided model “MDE-L” for testing.			
HVIN	MDE			
FVIN	V1.9.7.205			
Voltage Range [#]	DC 14.4V from battery			
Note1 [#] : The device can install difference Gimbal cameras: Gimbal camera 1 (Fusion 4T Pro), Gimbal camera 2(Fusion 4F Pro), Gimbal camera 3(Fusion 3M Pro), Gimbal camera 4(Fusion 4N Pro).				
Product name	EVO III 4T Pro	EVO III 4F Pro	EVO III 3M Pro	EVO III 4N Pro
Gimbal camera name	Fusion 4T Pro	Fusion 4F Pro	Fusion 3M Pro	Fusion 4N Pro
Gimbal camera model	MDES1	MDES2	MDEP1	MDEN1
Note 2: Per 15B report, test with Gimbal camera 1 [#] (Fusion 4T Pro) was the worst, so test was only performed with Gimbal camera 1 [#] (Fusion 4T Pro) this report.				

Frequency Range	2.4G Wi-Fi: 802.11b/g/n20/ax20/be20: 2412-2462MHz 802.11n40/ax40/be40: 2422-2452MHz
Maximum Conducted Output Average Power [#]	28.96dBm (Note: It is quoted from Report No.: 2504X04187E-RFA [#] .)
Modulation Technique	DSSS, OFDM, OFDMA
Antenna Specification [#]	Ceramic Antenna, Antenna gain: Ant0: 6.1dBi, Ant1: 6.1dBi (It is provided by the applicant.)
Sample Serial Number	3B29-2 (For RF Conducted Test) 3B29-1 (For Radiated Spurious Emissions Above 1G Test) 3BWK-1 (For Radiated Spurious Emissions Below 1G Test) (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.247 rules. And RSS-GEN Issue 5, Feb. 2021 Amendment 2 and RSS-247, Issue 3, August 2023 of the Innovation, Science and Economic Development Canada rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020+Cor. 1-2023+ C63.10a-2024+Errata to C63.10a-2024▲, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices, KDB 558074 D01 15.247 Meas Guidance v05r02 and RSS-GEN Issue 5, Feb. 2021Amendment 2 and RSS-247, Issue 3, August 2023.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements. The Registration Number is 30241.

Measurement Uncertainty

Parameter		Uncertainty
RF Frequency		0.064*10 ⁻⁷
RF output power, conducted		0.3 dB
Radiated Emissions	9kHz - 30MHz	2.1 dB
	30MHz - 1GHz	4.3 dB
	1GHz - 18GHz	4.9 dB
	18GHz - 26.5GHz	5.2 dB
Temperature		1 °C
Humidity		7 %
Supply voltages		0.4 %

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

For 2.4G Wi-Fi, total 11 channels are provided to testing:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/

802.11b/g/n20/ax20/be20 modes were tested with Channel 1, 6 and 11.

802.11n40/ax40/be40 modes were tested with Channel 3, 6 and 9.

EUT Exercise Software and Power Level[#]

Exercise Software:		QRCT4			
Mode	Data Rate	Antenna	Power Level		
			Low Channel	Middle Channel	High Channel
802.11 b	1Mbps	ANT0	20	20	20
		ANT1	20	20	20
802.11 g	6Mbps	ANT0	20	20	17
		ANT1	20	20	17
802.11 n20	MCS0	ANT0	16	16	16
		ANT1	16	16	16
802.11 n40	MCS0	ANT0	16	16	16
		ANT1	16	16	16
802.11 ax20	MCS0	ANT0	16	16	16
		ANT1	16	16	16
802.11 ax40	MCS0	ANT0	16	16	16
		ANT1	16	16	16
802.11 be20	MCS0	ANT0	16	16	16
		ANT1	16	16	16
802.11 be40	MCS0	ANT0	16	16	16
		ANT1	16	16	16

Note 1: The information in the above table is provided by the applicant.

Note 2: The worse-case data rates are determined to be as above for each mode based upon investigations by measuring the output power and PSD across all data rates, bandwidths and modulations.

Note 3: The device supports SISO in all modes. And MIMO 2TX in 802.11n/ax/be modes, per pretest, 2TX mode was the worst mode and reported for 802.11n/ax/be modes.

Note 4: For 802.11ax/be mode, the device not support partial RU mode.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

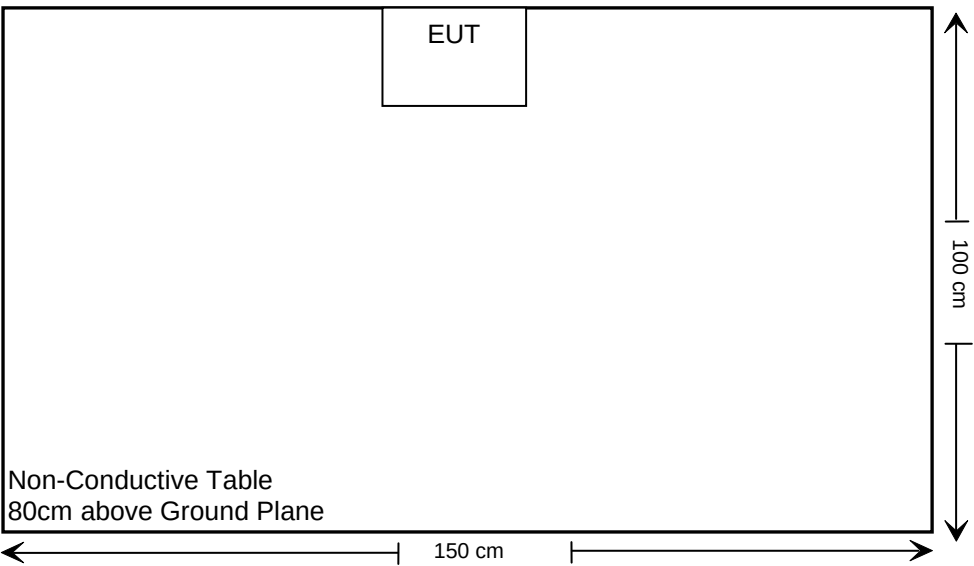
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

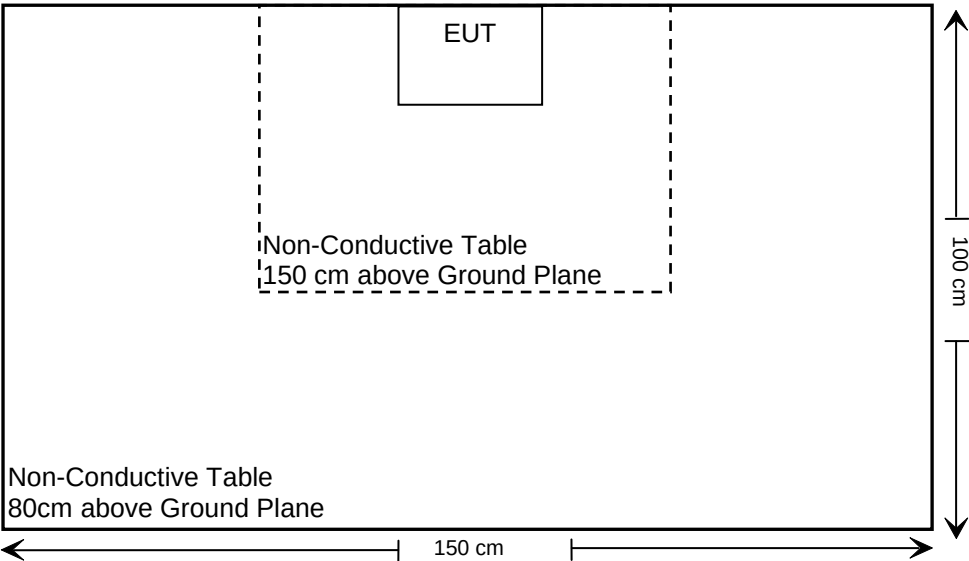
Cable Description	Shielding Type	Length (m)	From Port	To
/	/	/	/	/

Block Diagram of Test Setup

For Radiated Emission(Below 1GHz):



For Radiated Emission(Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description of Test	Result
§15.203	RSS-Gen §6.8	Antenna Requirement	Compliance
§15.207(a)	RSS-Gen §8.8	AC Line Conducted Emissions	Not Applicable
§15.205, §15.209, §15.247(d)	RSS-Gen §8.10 RSS-247 §5.5	Radiated Spurious Emissions	Compliance
§15.247(a)(2)	RSS-Gen §6.7 RSS-247 §5.2(a)	6 dB Emission Bandwidth & Occupied Bandwidth	See Note
§15.247(b)(3)	RSS-247 §5.4(d)	Maximum Conducted Output Power	See Note
§15.247(d)	RSS-247 §5.5	Conducted Spurious Emission	See Note
§15.247(e)	RSS-247 §5.2(b)	Power Spectral Density	See Note

Not Applicable: The device was powered by battery when operating.

Note[#]: The applicant claims that the radio frequency section of this device is identical to that of certified device(Model No.: MDED-L, FCC ID: 2AGNTMDED600958A, IC: 20910-MDED600958A). The RF parameters are identical with the certified device's report, therefore, the RF conducted test items please refer to the Report No.: 2504X04187E-RFA.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Spurious Emission Test(Below 1GHz)					
Rohde & Schwarz	Test Receiver	ESR	102725	2025/09/18	2026/09/17
SONOMA INSTRUMENT	Amplifier	310N	186131	2025/03/26	2026/03/25
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2024/08/08	2027/08/07
Unknown	RF Coaxial Cable	No.12	N040	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.13	N300	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.14	N800	2025/05/30	2026/05/29
BACL	LOOP ANTENNA	1313-1A	3110711	2024/01/16	2027/01/15
Test Software: e3 191218 (V9)					
Radiated Spurious Emission Test(Above 1GHz)					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2025/09/17	2026/09/16
Decentest	Filter Switch Unit	DT7220FSU	DQ77927	2025/09/18	2026/09/17
Decentest	Multiplex Switch Test Control Set	DT7220CSU	DQ77924	2025/09/18	2026/09/17
A.H. Systems, inc.	Preamplifier	PAM-0118	226	2025/03/20	2026/03/19
Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21
Unknown	RF Coaxial Cable	No.10	N050	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.11	N1000	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.19	N500	2025/05/30	2026/05/29
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2023/12/12	2026/12/11
BACL	Amplifier	BACL-1313-A1840	4012521	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.15	N600	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.16	N650	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.16	N650	2025/05/30	2026/05/29
Test Software: e3 191218 (V9)					
RF Conducted Test					
Anritsu	Microwave Peak Power Sensor	MA24418A	12619	2025/03/26	2026/03/25
Agilent	10dB Attenuator	8491B	A5825	2025/09/18	2026/09/17

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

ANTENNA REQUIREMENT

Applicable Standard

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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- Antenna must be permanently attached to the unit.
- Antenna must use a unique type of connector to attach to the EUT.
- Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to RSS-GEN §6.8,

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction[#]

The EUT has two internal antenna arrangements, which was permanently attached, fulfill the requirement of this section. Please refer to the product photos.

Antenna	Type	Gain	Impedance
ANT0/ ANT1	Ceramic	6.1dBi	50Ω

Result: Compliance.

RADIATED SPURIOUS EMISSION

Applicable Standard

FCC §15.205; §15.209; §15.247(d)

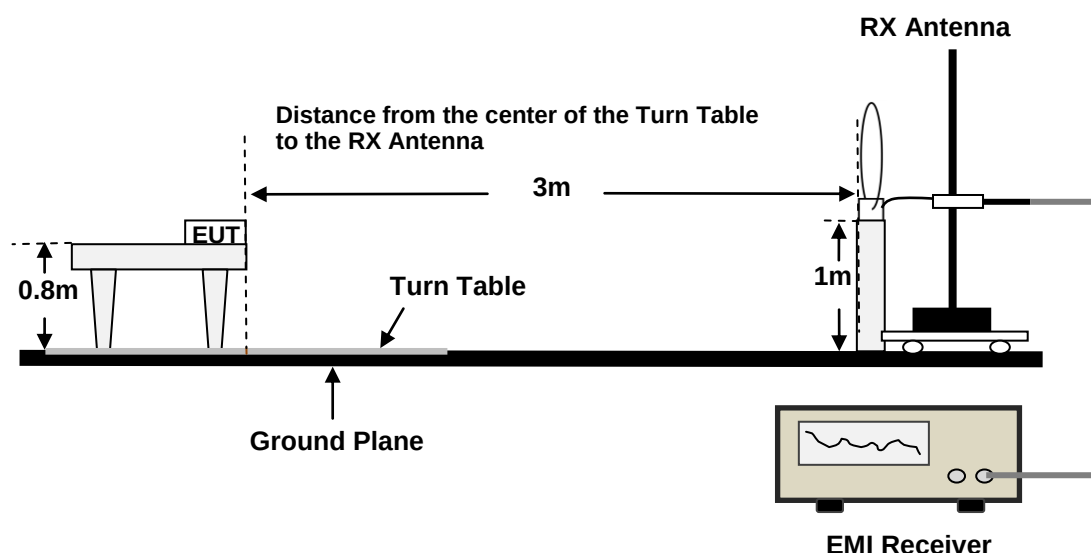
RSS-GEN § 8.10 & RSS-247 § 5.5

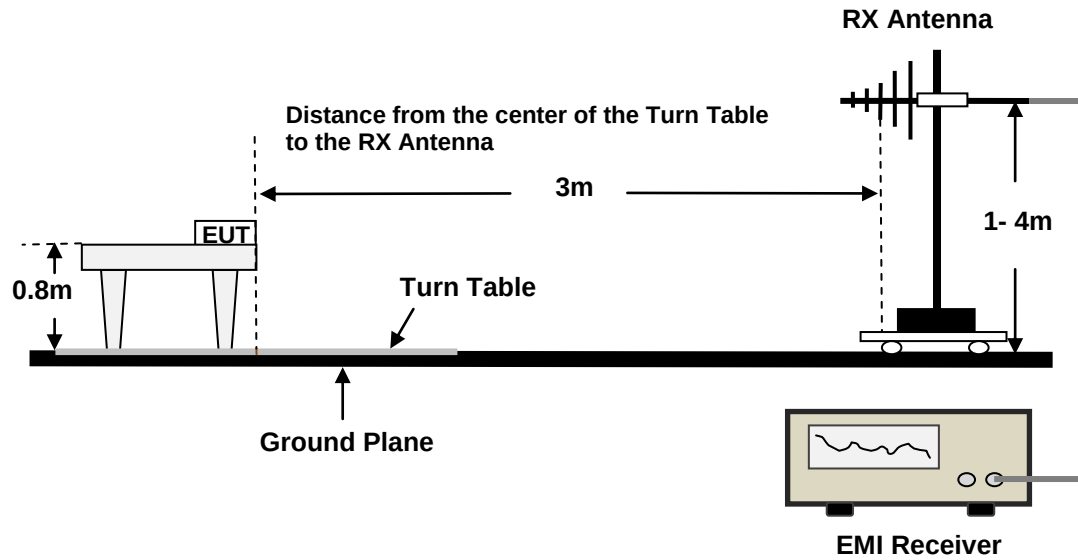
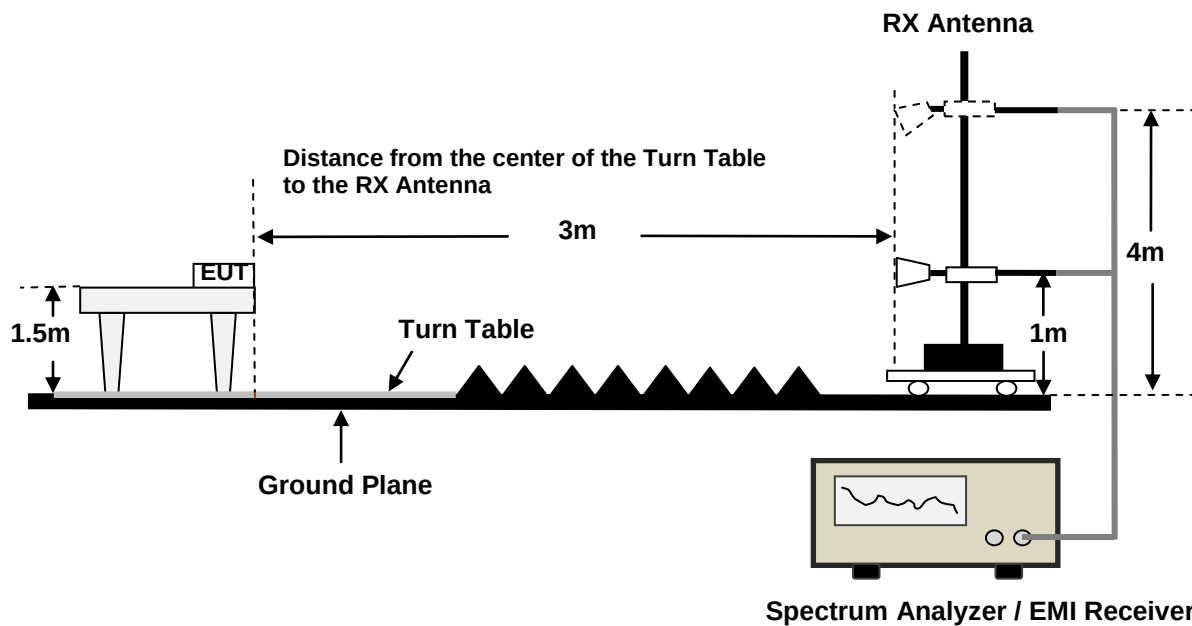
Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply: (a) The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD). (b) Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6. (c) Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

EUT Setup

9kHz - 30MHz:



30MHz - 1GHz:**Above 1GHz:**

The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, FCC 15.247, RSS-GEN and RSS-247 limits.

EMI Test Receiver& Spectrum Analyzer Setup

The system was investigated from 9kHz to 25GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz -1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9kHz - 150kHz	PK	0.3kHz	1kHz	/	PK
	QP/AV	/	/	200Hz	QP/AV
150kHz - 30MHz	PK	10kHz	30kHz	/	PK
	QP/AV	/	/	9kHz	QP/AV
30MHz - 1000MHz	PK	100kHz	300kHz	/	PK
	QP	/	/	120kHz	QP

1GHz-25GHz:

Pre-scan:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	Peak	Any	1MHz	3MHz
Ave.	Peak	>98%	1MHz	5kHz
		<98%	1MHz	≥1/T, no less than 5kHz

Final measurement for emission identified during the pre-scan:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	Peak	Any	1MHz	3MHz
Ave.	Peak	>98%	1MHz	10Hz
		<98%	1MHz	≥1/T

Note 1: T is minimum transmission duration

Note 2: The 1GHz-4GHz testing use the notch filter and the 4GHz-18GHz testing use high-pass filter.

Note 3: The band edge testing use 10dB attenuator.

Note 4: The filters and attenuators are all integrated within the filter switch unit.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

According to ANSI C63.10-2020,9.2: For field strength measurements made at other than the distance specified by the limit, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance).

$$E_{SpecLimit} = E_{Meas} + 20 \log \left(\frac{D_{Meas}}{D_{SpecLimit}} \right)$$

where

$E_{SpecLimit}$	is the field strength of the emission at the distance specified by the limit, in dBuV/m
E_{Meas}	is the field strength of the emission at the measurement distance, in dBuV/m
D_{Meas}	is the measurement distance, in m
$D_{SpecLimit}$	is the distance specified by the limit, in m

Note 1: If the maximized peak measured value is under the QP/Average limit by more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Note 2: For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit/Margin} &= \text{Level} / \text{Corrected Amplitude} - \text{Limit} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Test Data

For Radiated Spurious Emissions, after pre-scan testing in the X, Y and Z axes of orientation, the worst case as setup photos was recorded.

9kHz-1GHz

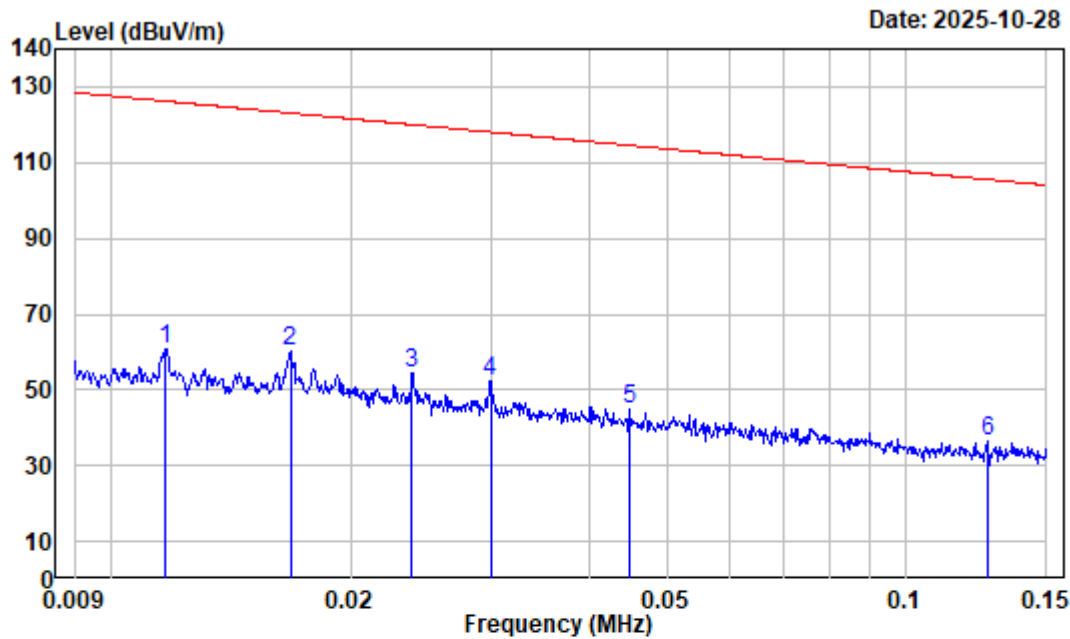
Environmental Conditions

Temperature:	25.5 to 25.8 °C
Relative Humidity:	56 to 57 %
ATM Pressure:	100.7 to 101.1 kPa
Test Engineer:	Colin Lin
Test Date:	2025-10-28 to 2025-11-05
EUT Operation Mode:	2.4G WIFI Transmitting

Test Result: Compliance, please refer to the below data.

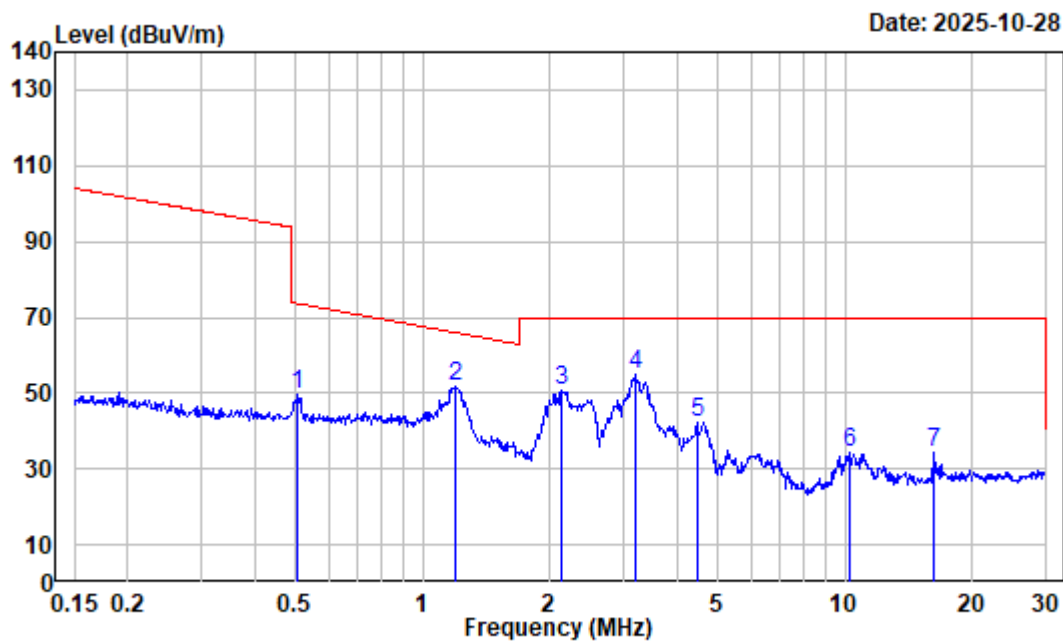
Note: The maximum output power mode and channel: 802.11be20 MIMO Low Channel was tested.

9kHz~30MHz:



Site : Chamber
Condition : 3m
Job No. : 2504X06145E-RF
Polarization : Parallel Tester: Colin Lin
Test Mode : 2.4G WIFI Transmitting
Receiver Setting: RBW:300Hz VBW:1kHz

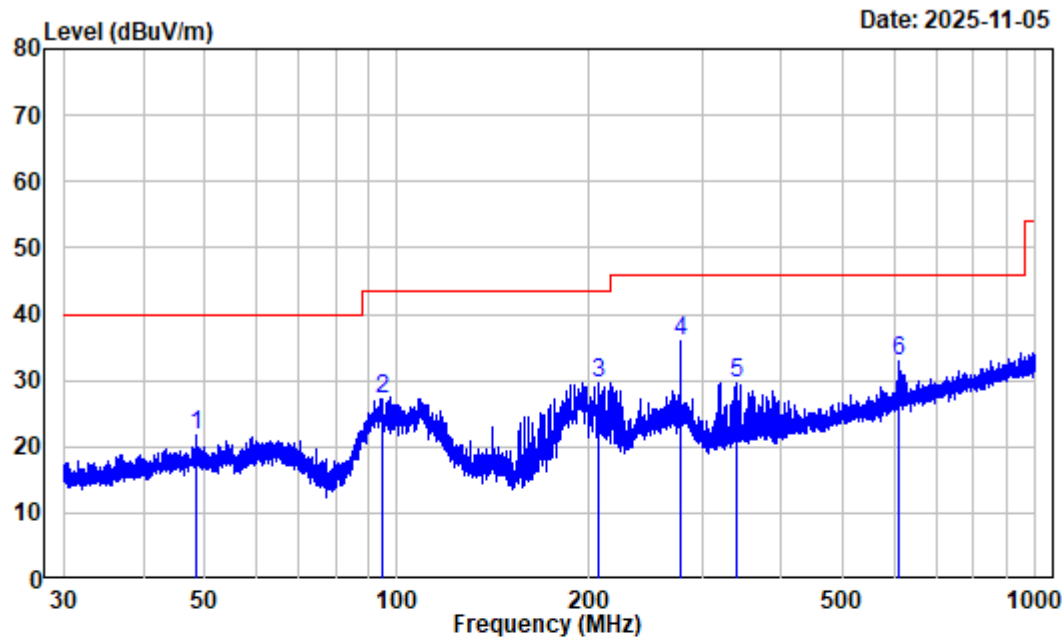
	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.012	35.06	25.91	60.97	126.22	-65.25	Peak
2	0.017	32.81	27.52	60.33	123.09	-62.76	Peak
3	0.024	29.66	24.71	54.37	120.04	-65.67	Peak
4	0.030	26.95	25.47	52.42	118.06	-65.64	Peak
5	0.045	23.87	21.12	44.99	114.57	-69.58	Peak
6	0.126	15.25	21.30	36.55	105.57	-69.02	Peak



Site : Chamber
Condition : 3m
Job No. : 2504X06145E-RF
Polarization : Parallel Tester: Colin Lin
Test Mode : 2.4G WIFI Transmitting
Receiver Setting: RBW:10kHz VBW:30kHz

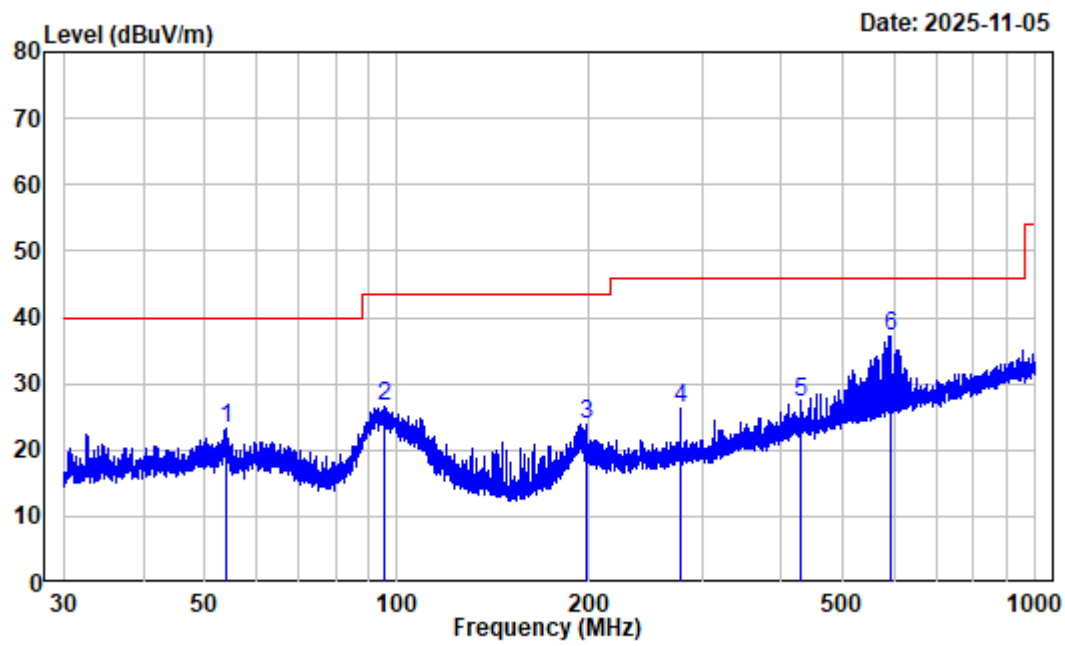
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.507	3.21	46.20	49.41	73.49	-24.08	Peak
2	1.197	-2.53	54.32	51.79	65.88	-14.09	Peak
3	2.144	-5.44	56.15	50.71	69.54	-18.83	Peak
4	3.190	-5.92	60.76	54.84	69.54	-14.70	Peak
5	4.478	-6.30	48.61	42.31	69.54	-27.23	Peak
6	10.233	-5.28	39.85	34.57	69.54	-34.97	Peak
7	16.226	-3.86	38.17	34.31	69.54	-35.23	Peak

30MHz~1GHz:



Site : Chamber
Condition : 3m HORIZONTAL
Job No. : 2504X06145E-RF Tester: Colin Lin
Test Mode : 2.4G WIFI Transmitting
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	48.353	-9.83	31.52	21.69	40.00	-18.31	Peak
2	94.470	-12.47	39.67	27.20	43.50	-16.30	Peak
3	206.669	-10.68	40.29	29.61	43.50	-13.89	Peak
4	278.555	-9.33	45.39	36.06	46.00	-9.94	Peak
5	340.632	-7.01	36.46	29.45	46.00	-16.55	Peak
6	612.064	-1.77	34.72	32.95	46.00	-13.05	Peak



Site : Chamber

Condition : 3m VERTICAL

Job No. : 2504X06145E-RF Tester: Colin Lin

Test Mode : 2.4G WIFI Transmitting

Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	53.929	-10.43	33.77	23.34	40.00	-16.66	Peak
2	95.260	-12.31	38.91	26.60	43.50	-16.90	Peak
3	197.893	-10.23	34.17	23.94	43.50	-19.56	Peak
4	278.433	-9.33	35.47	26.14	46.00	-19.86	Peak
5	427.832	-4.93	31.96	27.03	46.00	-18.97	Peak
6	592.270	-2.29	39.47	37.18	46.00	-8.82	Peak

1GHz-25GHz

Environmental Conditions

Temperature:	25.6 to 26.2 °C
Relative Humidity:	51 to 55 %
ATM Pressure:	100.7 kPa
Test Engineer:	Kevin Lv & Lorne Huang
Test Date:	2025-10-14 to 2025-10-28
EUT Operation Mode:	Transmitting

Test Result: Compliance, please refer to the below data.

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11b Ant0							
Low Channel							
2390	63.16	PK	H	-10.25	52.91	74	-21.09
2390	61.54	PK	V	-10.25	51.29	74	-22.71
4824	49.10	PK	H	-6.64	42.46	74	-31.54
4824	48.86	PK	V	-6.64	42.22	74	-31.78
Middle Channel							
4874	49.91	PK	H	-6.58	43.33	74	-30.67
4874	49.33	PK	V	-6.58	42.75	74	-31.25
High Channel							
2483.5	62.32	PK	H	-10.23	52.09	74	-21.91
2483.5	61.48	PK	V	-10.23	51.25	74	-22.75
4924	49.70	PK	H	-6.48	43.22	74	-30.78
4924	50.04	PK	V	-6.48	43.56	74	-30.44
802.11b Ant1							
Low Channel							
2390	63.23	PK	H	-10.25	52.98	74	-21.02
2390	62.44	PK	V	-10.25	52.19	74	-21.81
4824	49.01	PK	H	-6.64	42.37	74	-31.63
4824	48.75	PK	V	-6.64	42.11	74	-31.89
Middle Channel							
4874	48.93	PK	H	-6.58	42.35	74	-31.65
4874	49.42	PK	V	-6.58	42.84	74	-31.16
High Channel							
2483.5	63.30	PK	H	-10.23	53.07	74	-20.93
2483.5	62.23	PK	V	-10.23	52.00	74	-22.00
4924	49.75	PK	H	-6.48	43.27	74	-30.73
4924	49.44	PK	V	-6.48	42.96	74	-31.04

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11g Ant0							
Low Channel							
2390	74.13	PK	H	-10.25	63.88	74	-10.12
2390	61.07	AV	H	-10.25	50.82	54	-3.18
2390	73.45	PK	V	-10.25	63.20	74	-10.80
2390	57.41	AV	V	-10.25	47.16	54	-6.84
4824	48.50	PK	H	-6.64	41.86	74	-32.14
4824	48.61	PK	V	-6.64	41.97	74	-32.03
Middle Channel							
4874	49.25	PK	H	-6.58	42.67	74	-31.33
4874	49.14	PK	V	-6.58	42.56	74	-31.44
High Channel							
2483.5	75.59	PK	H	-10.23	65.36	74	-8.64
2483.5	61.07	AV	H	-10.23	50.84	54	-3.16
2483.5	71.83	PK	V	-10.23	61.60	74	-12.40
2483.5	59.80	AV	V	-10.23	49.57	54	-4.43
4924	50.37	PK	H	-6.48	43.89	74	-30.11
4924	50.14	PK	V	-6.48	43.66	74	-30.34
802.11g Ant1							
Low Channel							
2390	74.95	PK	H	-10.25	64.70	74	-9.30
2390	61.22	AV	H	-10.25	50.97	54	-3.03
2390	70.75	PK	V	-10.25	60.50	74	-13.50
2390	57.71	AV	V	-10.25	47.46	54	-6.54
4824	48.56	PK	H	-6.64	41.92	74	-32.08
4824	49.41	PK	V	-6.64	42.77	74	-31.23
Middle Channel							
4874	50.48	PK	H	-6.58	43.90	74	-30.10
4874	48.99	PK	V	-6.58	42.41	74	-31.59
High Channel							
2483.5	75.57	PK	H	-10.23	65.34	74	-8.66
2483.5	61.53	AV	H	-10.23	51.30	54	-2.70
2483.5	71.82	PK	V	-10.23	61.59	74	-12.41
2483.5	60.04	AV	V	-10.23	49.81	54	-4.19
4924	50.22	PK	H	-6.48	43.74	74	-30.26
4924	50.11	PK	V	-6.48	43.63	74	-30.37

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11n20							
Low Channel							
2390	68.13	PK	H	-10.25	57.88	74	-16.12
2390	55.08	AV	H	-10.25	44.83	54	-9.17
2390	64.31	PK	V	-10.25	54.06	74	-19.94
2390	52.23	AV	V	-10.25	41.98	54	-12.02
4824	49.13	PK	H	-6.64	42.49	74	-31.51
4824	48.27	PK	V	-6.64	41.63	74	-32.37
Middle Channel							
4874	47.94	PK	H	-6.58	41.36	74	-32.64
4874	49.36	PK	V	-6.58	42.78	74	-31.22
High Channel							
2483.5	75.57	PK	H	-10.23	65.34	74	-8.66
2483.5	60.58	AV	H	-10.23	50.35	54	-3.65
2483.5	67.66	PK	V	-10.23	57.43	74	-16.57
2483.5	54.72	AV	V	-10.23	44.49	54	-9.51
4924	50.36	PK	H	-6.48	43.88	74	-30.12
4924	48.95	PK	V	-6.48	42.47	74	-31.53

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11n40							
Low Channel							
2390	74.52	PK	H	-10.25	64.27	74	-9.73
2390	59.52	AV	H	-10.25	49.27	54	-4.73
2390	69.57	PK	V	-10.25	59.32	74	-14.68
2390	57.63	AV	V	-10.25	47.38	54	-6.62
4844	49.60	PK	H	-6.64	42.96	74	-31.04
4844	48.34	PK	V	-6.64	41.70	74	-32.30
Middle Channel							
4874	48.66	PK	H	-6.58	42.08	74	-31.92
4874	48.99	PK	V	-6.58	42.41	74	-31.59
High Channel							
2483.5	75.94	PK	H	-10.23	65.71	74	-8.29
2483.5	60.98	AV	H	-10.23	50.75	54	-3.25
2483.5	67.12	PK	V	-10.23	56.89	74	-17.11
2483.5	56.06	AV	V	-10.23	45.83	54	-8.17
4904	49.59	PK	H	-6.52	43.07	74	-30.93
4904	49.55	PK	V	-6.52	43.03	74	-30.97

Frequency	Reading	Pk/Ave	Polar	Factor	Absolute Level	Limit	Margin
(MHz)	(dBμV)		(H/V)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)
802.11ax20							
Low Channel							
2390	71.20	PK	H	-10.25	60.95	74	-13.05
2390	60.24	AV	H	-10.25	49.99	54	-4.01
2390	67.68	PK	V	-10.25	57.43	74	-16.57
2390	55.72	AV	V	-10.25	45.47	54	-8.53
4824	48.51	PK	H	-6.64	41.87	74	-32.13
4824	48.66	PK	V	-6.64	42.02	74	-31.98
Middle Channel							
4874	50.08	PK	H	-6.58	43.50	74	-30.50
4874	49.71	PK	V	-6.58	43.13	74	-30.87
High Channel							
2483.5	74.56	PK	H	-10.23	64.33	74	-9.67
2483.5	61.58	AV	H	-10.23	51.35	54	-2.65
2483.5	72.13	PK	V	-10.23	61.90	74	-12.10
2483.5	58.17	AV	V	-10.23	47.94	54	-6.06
4924	48.96	PK	H	-6.48	42.48	74	-31.52
4924	49.69	PK	V	-6.48	43.21	74	-30.79

Frequency	Reading	Pk/Ave	Polar	Factor	Absolute Level	Limit	Margin
(MHz)	(dBμV)		(H/V)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)
802.11ax40							
Low Channel							
2390	74.43	PK	H	-10.25	64.18	74	-9.82
2390	61.41	AV	H	-10.25	51.16	54	-2.84
2390	69.39	PK	V	-10.25	59.14	74	-14.86
2390	59.38	AV	V	-10.25	49.13	54	-4.87
4844	49.68	PK	H	-6.64	43.04	74	-30.96
4844	49.91	PK	V	-6.64	43.27	74	-30.73
Middle Channel							
4874	50.25	PK	H	-6.58	43.67	74	-30.33
4874	48.37	PK	V	-6.58	41.79	74	-32.21
High Channel							
2483.5	74.06	PK	H	-10.23	63.83	74	-10.17
2483.5	60.04	AV	H	-10.23	49.81	54	-4.19
2483.5	65.39	PK	V	-10.23	55.16	74	-18.84
2483.5	55.41	AV	V	-10.23	45.18	54	-8.82
4904	50.58	PK	H	-6.52	44.06	74	-29.94
4904	48.83	PK	V	-6.52	42.31	74	-31.69

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11be20							
Low Channel							
2390	74.25	PK	H	-10.25	64.00	74	-10.00
2390	60.23	AV	H	-10.25	49.98	54	-4.02
2390	71.07	PK	V	-10.25	60.82	74	-13.18
2390	57.10	AV	V	-10.25	46.85	54	-7.15
4824	47.94	PK	H	-6.64	41.30	74	-32.70
4824	47.43	PK	V	-6.64	40.79	74	-33.21
Middle Channel							
4874	48.80	PK	H	-6.58	42.22	74	-31.78
4874	47.92	PK	V	-6.58	41.34	74	-32.66
High Channel							
2483.5	75.60	PK	H	-10.23	65.37	74	-8.63
2483.5	62.27	AV	H	-10.23	52.04	54	-1.96
2483.5	73.52	PK	V	-10.23	63.29	74	-10.71
2483.5	59.46	AV	V	-10.23	49.23	54	-4.77
4924	50.00	PK	H	-6.48	43.52	74	-30.48
4924	49.40	PK	V	-6.48	42.92	74	-31.08

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11be40							
Low Channel							
2390	73.12	PK	H	-10.25	62.87	74	-11.13
2390	61.06	AV	H	-10.25	50.81	54	-3.19
2390	70.29	PK	V	-10.25	60.04	74	-13.96
2390	57.35	AV	V	-10.25	47.10	54	-6.90
4844	48.85	PK	H	-6.64	42.21	74	-31.79
4844	48.05	PK	V	-6.64	41.41	74	-32.59
Middle Channel							
4874	48.59	PK	H	-6.58	42.01	74	-31.99
4874	48.07	PK	V	-6.58	41.49	74	-32.51
High Channel							
2483.5	75.52	PK	H	-10.23	65.29	74	-8.71
2483.5	60.98	AV	H	-10.23	50.75	54	-3.25
2483.5	68.29	PK	V	-10.23	58.06	74	-15.94
2483.5	55.22	AV	V	-10.23	44.99	54	-9.01
4904	49.24	PK	H	-6.52	42.72	74	-31.28
4904	49.45	PK	V	-6.52	42.93	74	-31.07

Note 1: Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Note 2: Absolute Level = Factor + Reading

Note 3: Margin = Absolute Level - Limit

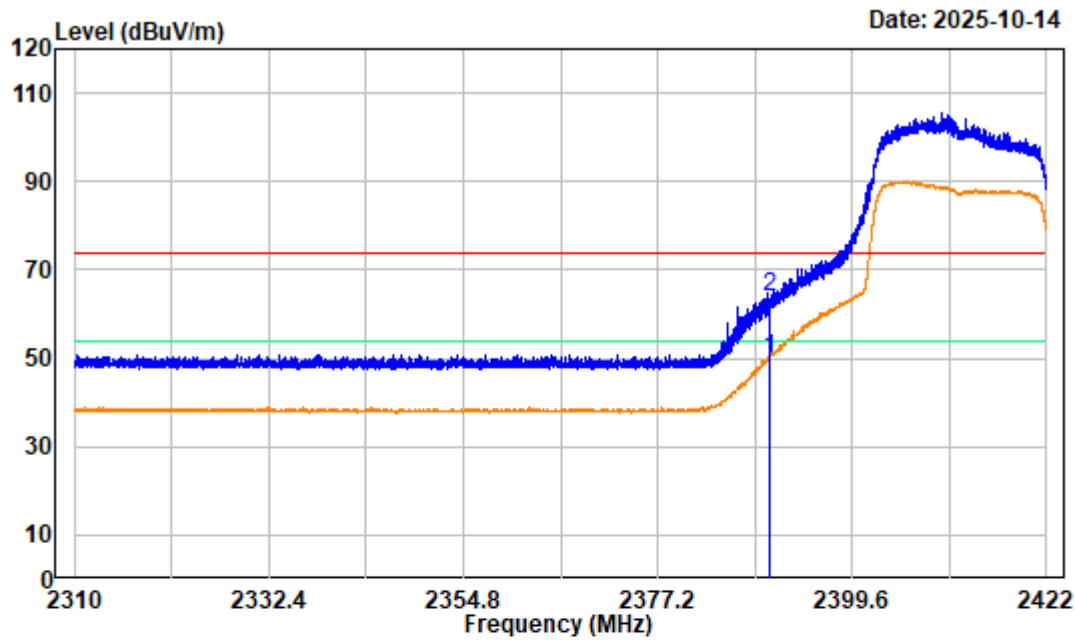
Note 4: The other spurious emission which is in the noise floor level was not recorded.

Note 5: The test result of peak was less than the limit of average, so just peak values were recorded.

Test plots

Band Edge (Listed with the worst mode margin test plot)

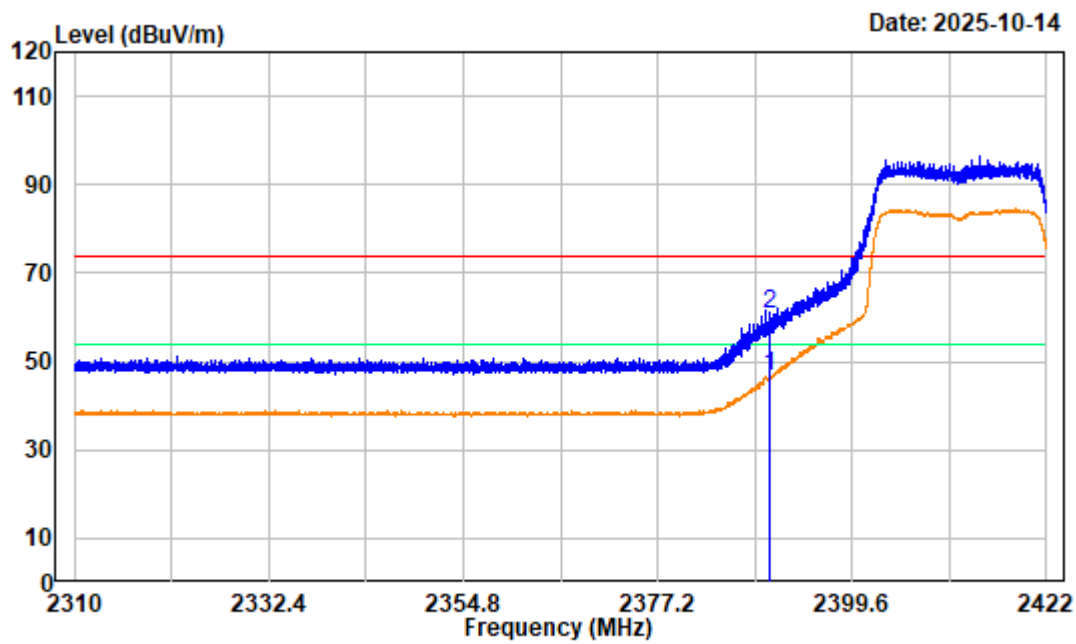
2.4G WIFI 802.11be Low Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504X06145E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 2.4G WIFI 802.11BE20 Low Channel 2412MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	-10.25	60.23	49.98	54.00	-4.02 average
2	2390.000	-10.25	74.25	64.00	74.00	-10.00 peak

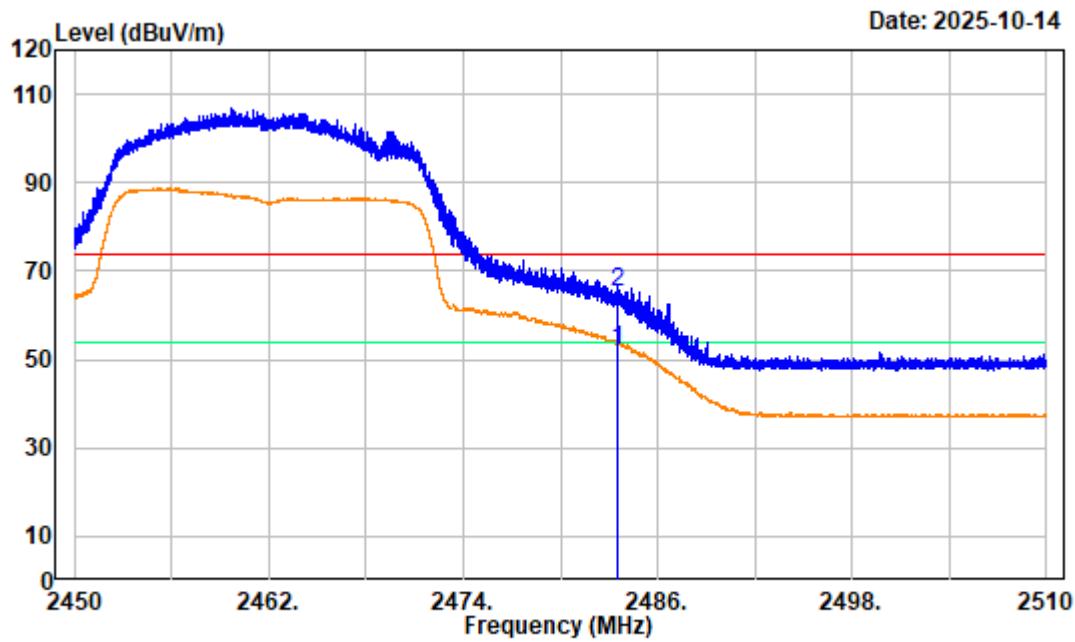
2.4G WIFI 802.11be Low Channel Bandedge_ VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X06145E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 2.4G WIFI 802.11BE20 Low Channel 2412MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	-10.25	57.10	46.85	54.00	-7.15 average
2	2390.000	-10.25	71.07	60.82	74.00	-13.18 peak

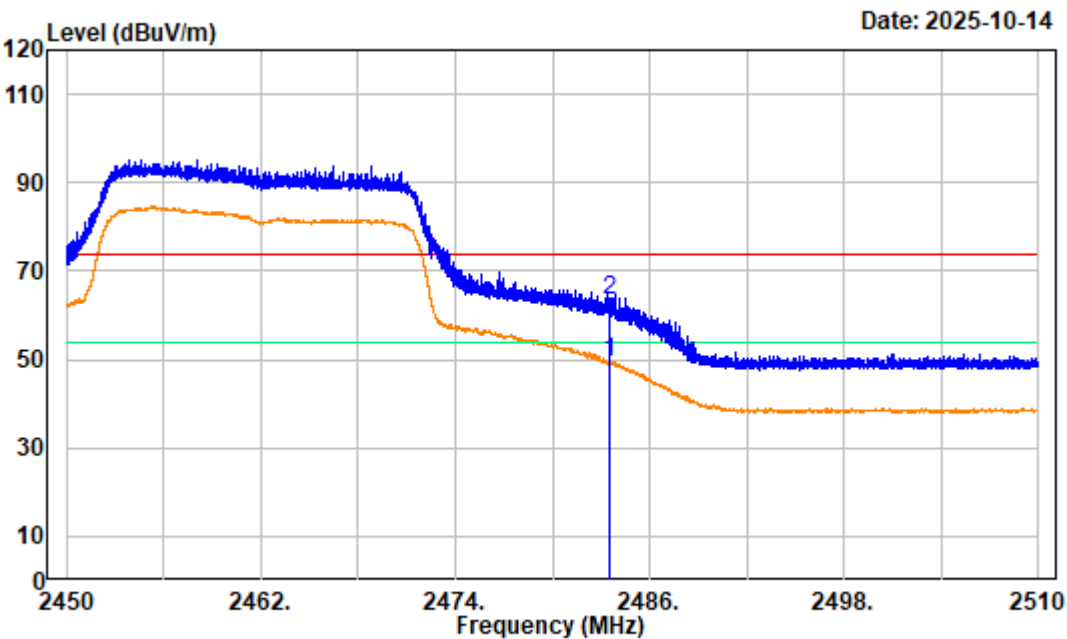
2.4G WIFI 802.11be High Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504X06145E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 2.4G WIFI 802.11BE20 High Channel 2462MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.23	62.27	52.04	54.00	-1.96 average
2	2483.500	-10.23	75.60	65.37	74.00	-8.63 peak

2.4G WIFI 802.11be High Channel Bandedge_ VERTICAL

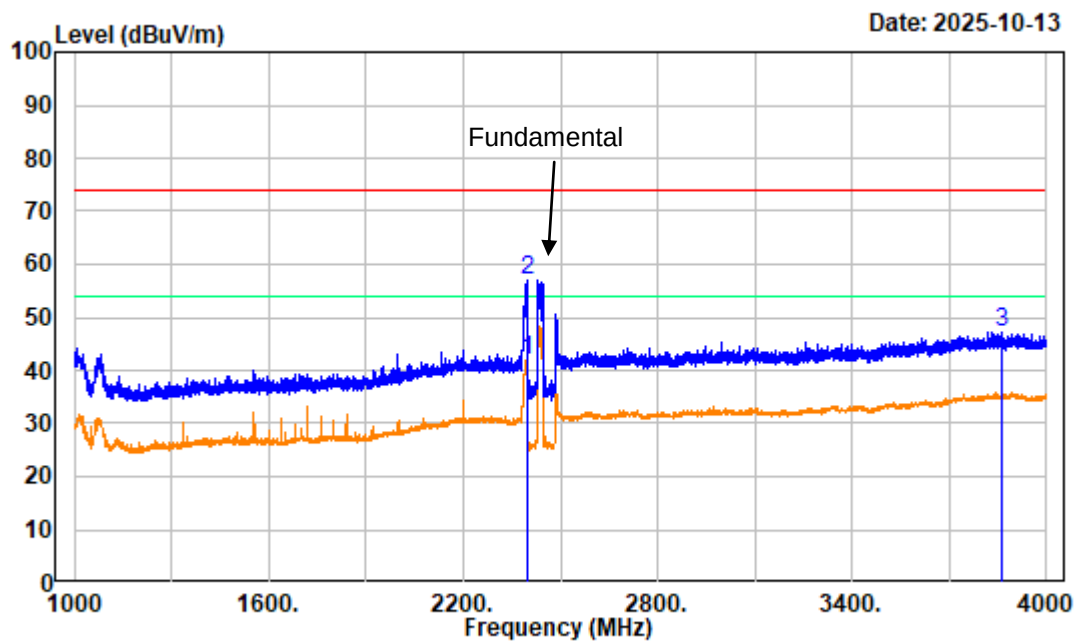


Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X06145E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 2.4G WIFI 802.11BE20 High Channel 2462MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.23	59.46	49.23	54.00	-4.77 average
2	2483.500	-10.23	73.52	63.29	74.00	-10.71 peak

1-18GHz (Listed with the worst harmonic margin test plot)

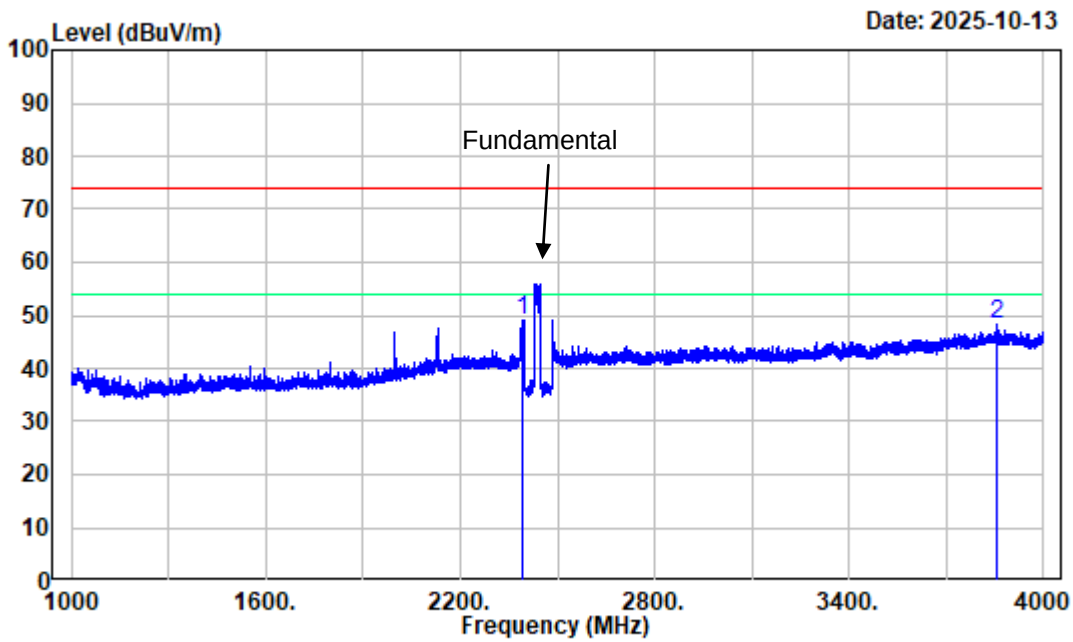
2.4G WIFI 802.11g Middle Channel Ant1 1-4G_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504X06145E-RF
Test Mode : Transmitting Tester:Lorne Huang
Note : 2.4G WIFI 802.11g Middle Channel Ant1 2437MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2396.875	-10.28	52.21	41.93	54.00	-12.07 Average
2	2396.875	-10.28	67.23	56.95	74.00	-17.05 Peak
3	3861.625	-8.15	55.50	47.35	74.00	-26.65 Peak

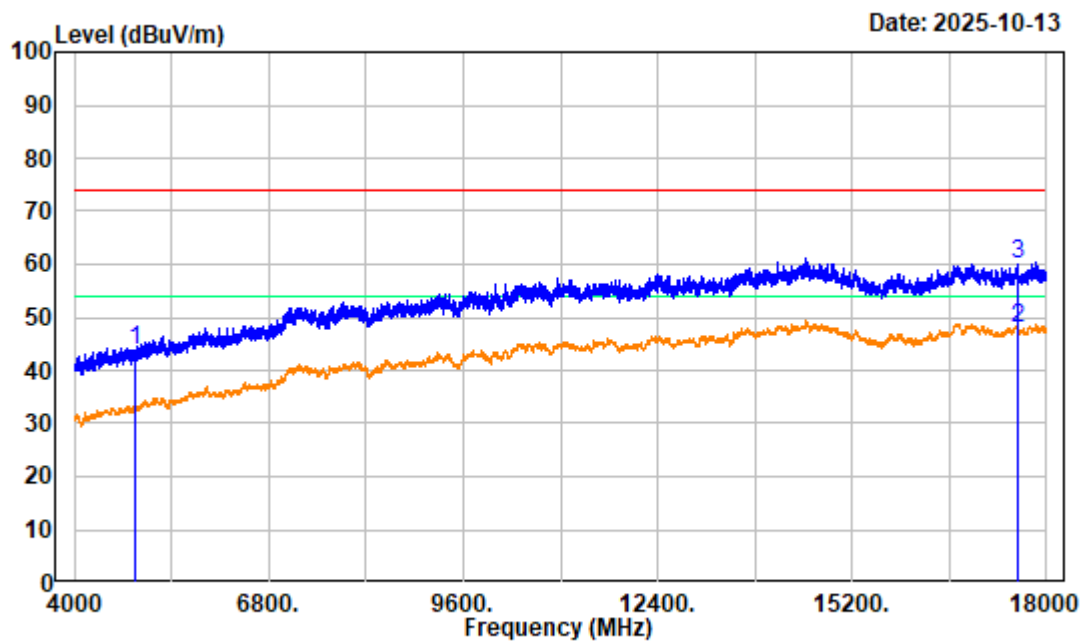
2.4G WIFI 802.11g Middle Channel Ant1 1-4G_ VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X06145E-RF
Test Mode : Transmitting Tester:Lorne Huang
Note : 2.4G WIFI 802.11g Middle Channel Ant1 2437MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read	Limit	Over	Remark	
MHz	dB/m	Level	Level	Line		
		dBuV	dBuV/m	dBuV/m	dB	
1	2391.250	-10.26	59.42	49.16	74.00	-24.84 Peak
2	3855.625	-8.19	56.46	48.27	74.00	-25.73 Peak

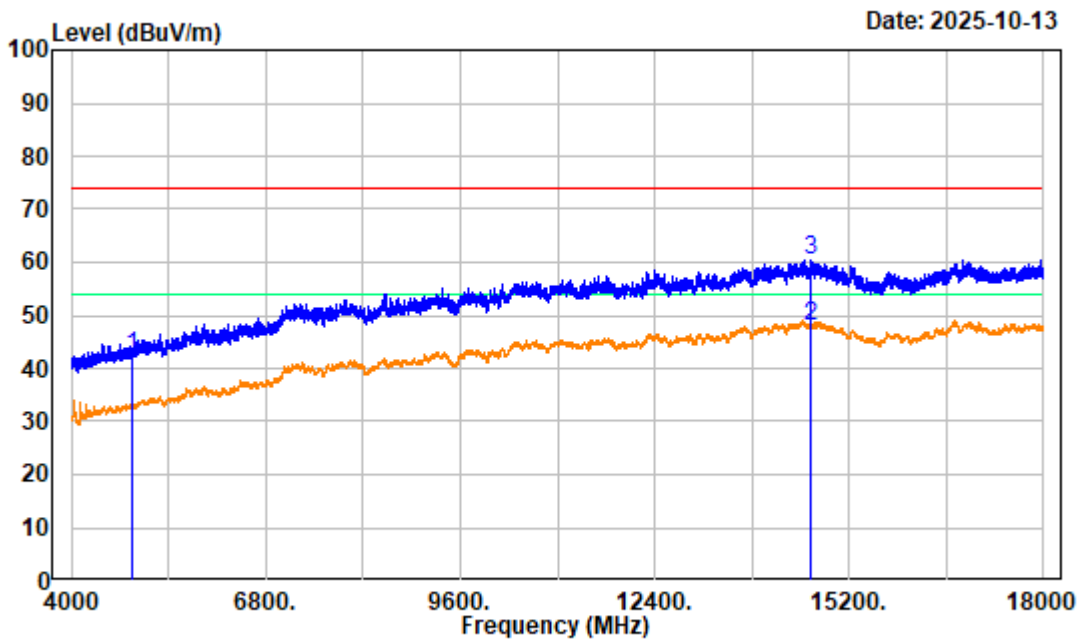
2.4G WIFI 802.11g Middle Channel Ant1 4-18G_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504X06145E-RF
Test Mode : Transmitting Tester:Lorne Huang
Note : 2.4G WIFI 802.11g Middle Channel Ant1 2437MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 4874.000	-6.58	50.48	43.90	74.00	-30.10	peak
2 17576.500	7.30	40.51	47.81	54.00	-6.19	Average
3 17576.500	7.30	52.75	60.05	74.00	-13.95	Peak

2.4G WIFI 802.11g Middle Channel Ant1 4-18G_ VERTICAL

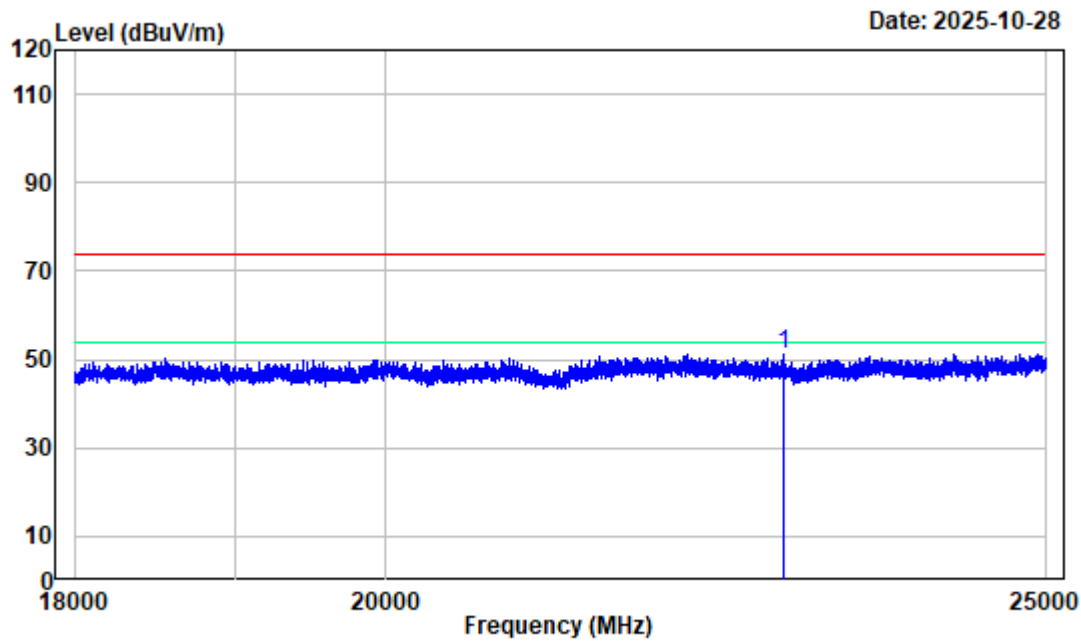


Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X06145E-RF
Test Mode : Transmitting Tester:Lorne Huang
Note : 2.4G WIFI 802.11g Middle Channel Ant1 2437MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 4874.000	-6.58	48.99	42.41	74.00	-31.59	peak
2 14645.250	8.69	39.16	47.85	54.00	-6.15	Average
3 14645.250	8.69	51.67	60.36	74.00	-13.64	Peak

18-25GHz (Only Listed with the worst harmonic margin test plot)

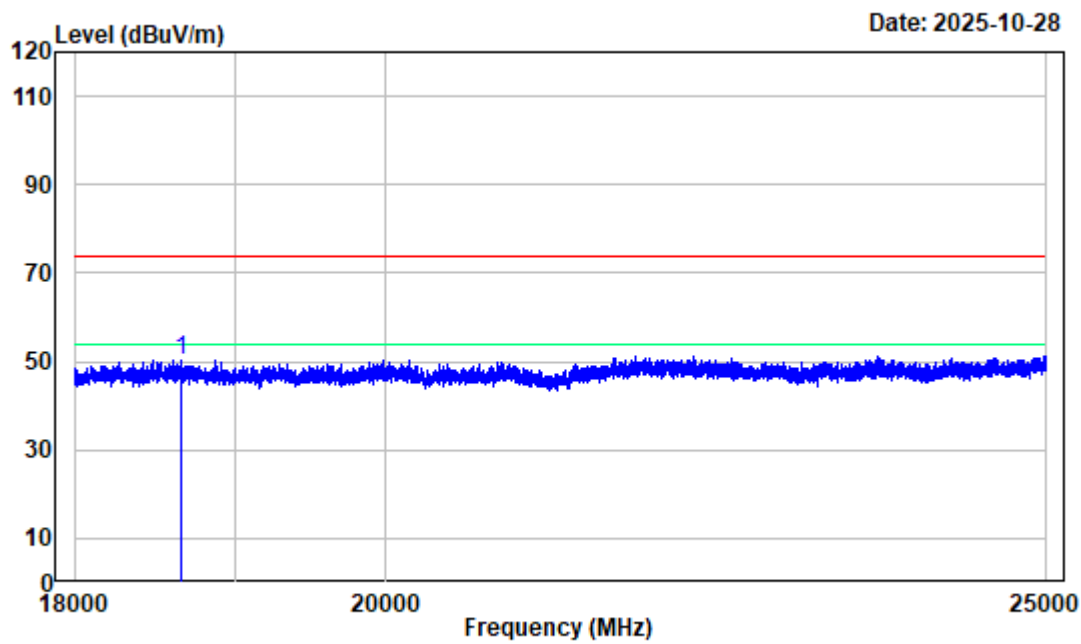
2.4G WIFI 802.11g Middle Channel Ant1 18-25G_ HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504X06145E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 2.4G WIFI 802.11g Middle Channel Ant1 18-25G
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 22873.750	0.58	50.68	51.26	74.00	-22.74	Peak

2.4G WIFI 802.11g Middle Channel Ant1 18-25G_ VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504X06145E-RF

Test Mode : TransmittingTester:Kevin Lv

Note : 2.4G WIFI 802.11g Middle Channel Ant1 18-25G

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 18658.000	-4.88	55.27	50.39	74.00	-23.61	Peak

MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b)(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.

According to RSS-247§5.4(d):

For DTSSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling 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 transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

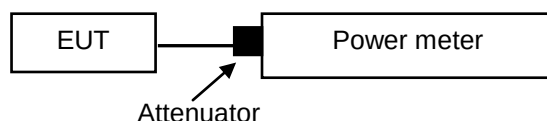
Test Procedure

According to ANSI C63.10-2020, section 11.9.1.2

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast responding diode detector.

According to ANSI C63.10-2020, section 11.9.2.3

- Measurement using a power meter (PM)(Method AVGPM)
 - a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent, if all of the conditions listed below are satisfied:
 - 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
 - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
 - b) If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal as described in 11.6.
 - c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
 - d) Correct the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.



Test Data

Test Result: Compliance. Please refer to the Appendix.

APPENDIX

Test Information:

Sample No.:	3B29-2	Test Date:	2025-11-18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.7	Relative Humidity: (%)	51	ATM Pressure: (kPa)	101.1
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Spot Check With Maximum Conducted Output Power

Mode	Antenna	Test Frequency (MHz)	Peak Output Power(dBm)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11be20	Chain 0	2412	25.25	15.57	29.9	Pass
		2437	25.31	15.72	29.9	Pass
		2462	26.11	15.23	29.9	Pass
	Chain 1	2412	26.17	15.95	29.9	Pass
		2437	25.52	16.02	29.9	Pass
		2462	25.26	15.89	29.9	Pass
	Chain 0+Chain 1	2412	28.74	18.77	29.9	Pass
		2437	28.43	18.88	29.9	Pass
		2462	28.72	18.58	29.9	Pass

Note 1: The Antenna gain is 6.1dBi#.

Note 2: EIRP= Output Power + Antenna Gain

Note 3: The maximum EIRP is 28.74dBm+6.1dBi=34.84dBm<36dBm, so it's compliance with ISED C EIRP limit.

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504X06145E-RF EUT External Photos and Attachment No.2 2504X06145E-RF EUT Internal Photos.

EXHIBIT B-TEST SETUP PHOTOGRAPHS

Please refer to the Attachment No.3 2504X06145E-RFA Test Photos.

***** END OF REPORT *****