

TEST REPORT

Applicant Name: JEM ACCESSORIES INC.
Address: 32 Brunswick Avenue, Edison, New Jersey, United States, 08817
Report Number: 2401U55865E-RF-00A
FCC ID: 2AHAS-ABC21003

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type: Solar powered backup camera with display
Model No.: ABC2-1003-BLK
Multiple Model(s) No.: N/A
Trade Mark: N/A
Date Received: 2024-06-15
Issue Date: 2024-07-08

Test Result:

Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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Approved By:

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Note: 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.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2401U55865E-RF-00A	Original Report	2024-07-08

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	2412~2462MHz
Maximum Conducted Output Peak Power	22.7dBm
Modulation Technique	DSSS, OFDM
Antenna Specification [#]	1.45 dBi (provided by the applicant)
Voltage Range	DC 5V from USB port or DC 3.7V from battery
Sample serial number	2N2E-2 for Conducted and Radiated Emissions Test 2N2E-3 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

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, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		±5%
RF output power, conducted		0.72 dB(k=2, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz~150 kHz	3.94dB(k=2, 95% level of confidence)
	150 kHz ~30MHz	3.84dB(k=2, 95% level of confidence)
Radiated Emissions	9kHz - 30MHz	3.30dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	4.48dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	4.55dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	4.85dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.05dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.35dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.44dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.16dB(k=2, 95% level of confidence)
Temperature		±1°C
Humidity		±1%
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.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 715558, the FCC Designation No.: CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

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

802.11b, 802.11g and 802.11n-HT20 mode was tested with Channel 1, 6 and 11.

EUT Exercise Software

The device was tested with the worst case was performed as below, and the software[#] and power level[#] was provided by the applicant.

Exercise Software [#]		Secure CRTPortable.exe		
Mode	Data rate	Power Level [#]		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	default	default	default
802.11g	6Mbps	default	default	default
802.11n-HT20	MCS0	default	default	default

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

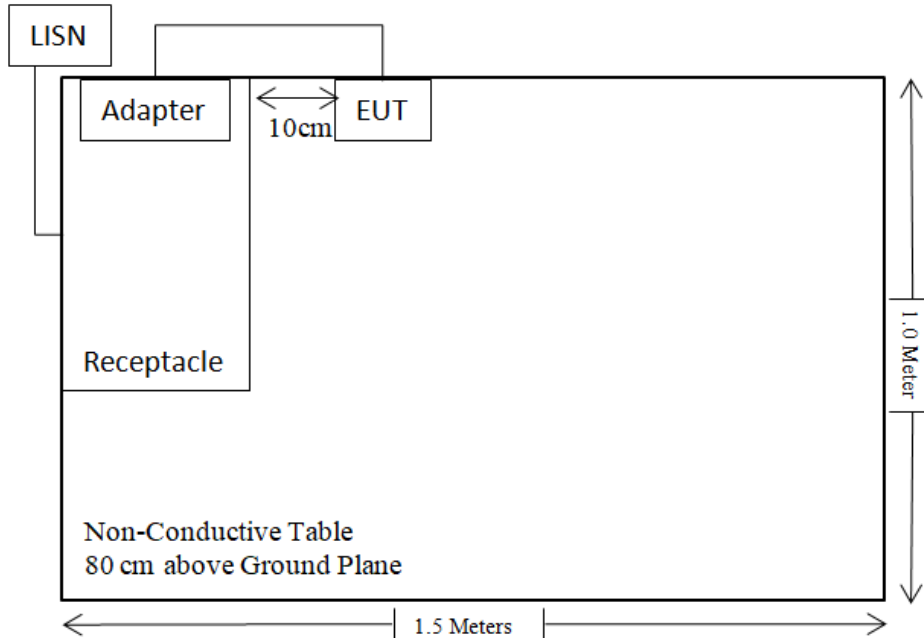
Manufacturer	Description	Model	Serial Number
XED	Adapter	XED-UL050100CU	Unknown

External I/O Cable

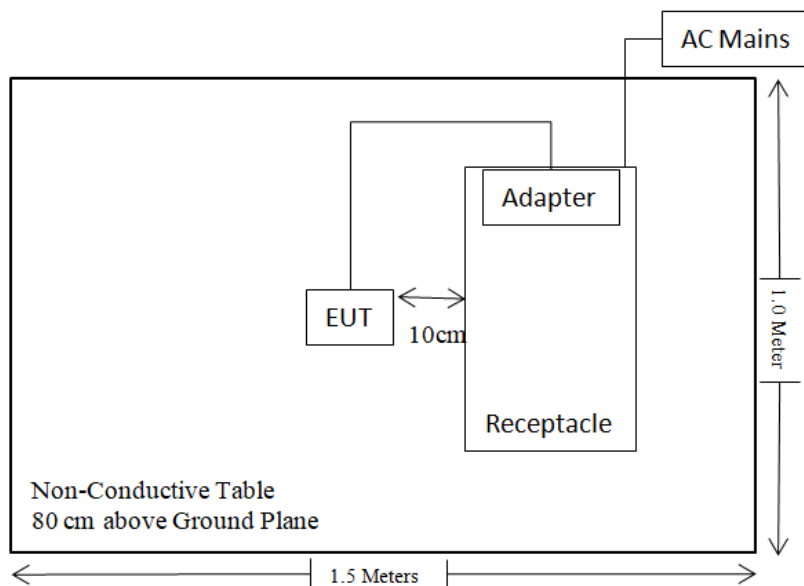
Cable Description	Length (m)	From Port	To
Un-shielding Detachable DC Cable	1.8	EUT	adapter
Un-shielding Detachable AC Cable	1.0	Receptacle	LISN/AC Mains

Block Diagram of Test Setup

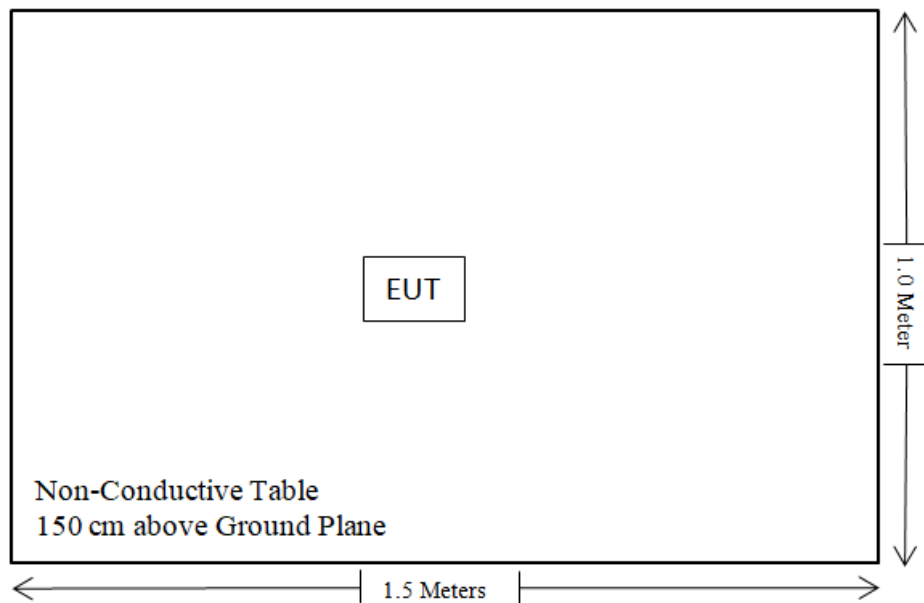
For Conducted Emissions:



For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.203	Antenna Requirement	PASS
FCC §15.207(a)	AC Line Conducted Emissions	PASS
FCC §15.205,§15.209,§15.247(d)	Radiated Spurious Emission	PASS
FCC §15.207(a)(2)	6dB Emission Bandwidth	PASS
FCC §15.247(b)(1)	Maximum Conducted Output Power	PASS
FCC §15.247(d)	100 kHz Bandwidth of Frequency Band Edge	PASS
FCC §15.247(d)	Power Spectral Density	PASS
C63.10 §11.6	Duty Cycle	PASS
FCC §15.247 (i) & §1.1307 (b) (3) & §2.1091	Maximum Permissible Exposure (MPE)	PASS

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/01/16	2025/01/15
Rohde & Schwarz	LISN	ENV216	101613	2024/01/16	2025/01/15
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2024/05/21	2025/05/20
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2024/05/21	2025/05/20
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/01/16	2025/01/15
Sonoma instrument	Pre-amplifier	310N	186238	2024/05/21	2025/05/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber Cable 1	F-03-EM236	2024/06/18	2025/06/17
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Cable	2Y194	0735	2024/05/21	2025/05/20
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Rohde&Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26
COM-POWER	Pre-amplifier	PA-122	181919	2024/06/18	2025/06/17
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	0735	2024/06/18	2025/06/17
Unknown	RF Cable	UFA147	219661	2024/06/18	2025/06/17
Unknown	RF Cable	XH750A-N	J-10M	2024/06/18	2025/06/17
SNSD	2.4G Band Reject filter	BSF2402-2480MN-0898-001	2.4G filter	2024/06/27	2025/06/26
A.H.System	Pre-amplifier	PAM-1840VH	190	2024/06/18	2025/06/17
Electro-Mechanics Co	Horn Antenna	3116	2026	2023/09/18	2026/09/17
UTIFLEX	RF Cable	NO. 13	232308-001	2024/06/18	2025/06/17

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Unknown	10dB Attenuator	Unknown	F-03-EM190	2024/06/27	2025/06/26
ANRITSU	Microwave peak power sensor	MA24418A	12622	2024/05/21	2025/05/20
Rohde & Schwarz	Spectrum Analyze	FSU26	200982	2023/12/18	2024/12/17

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

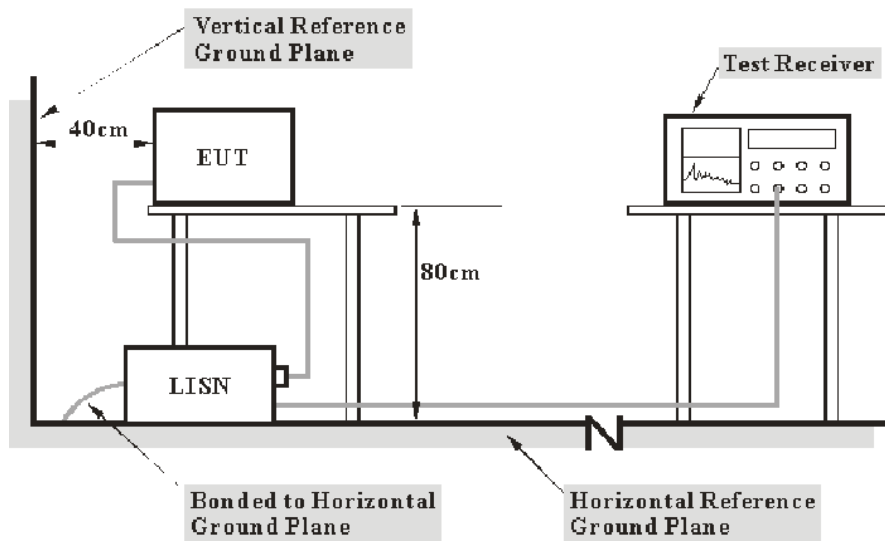
REQUIREMENTS AND TEST PROCEDURES

AC Line Conducted Emissions

Applicable Standard

FCC§15.207

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

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

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

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

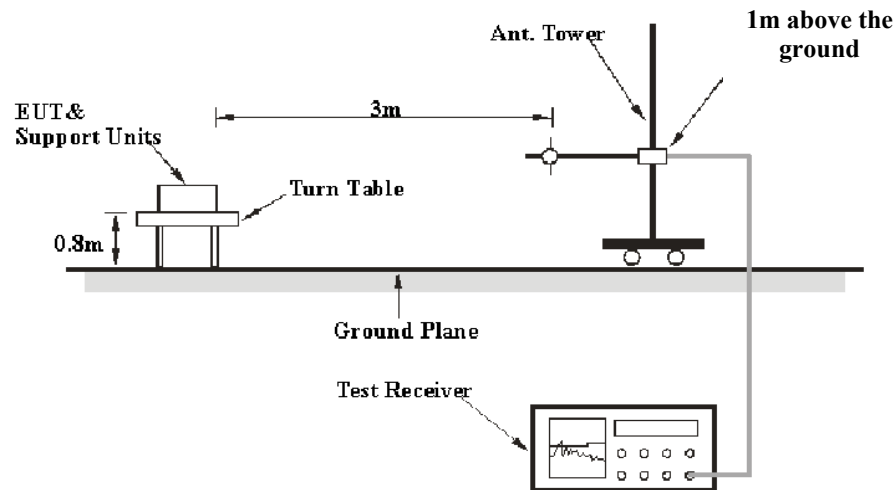
Spurious Emissions

Applicable Standard

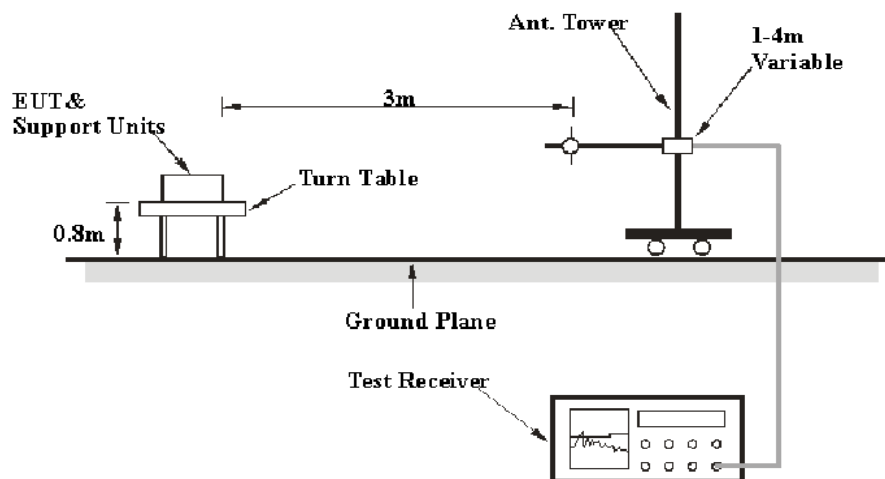
FCC §15.247 (d); §15.209;§15.205;

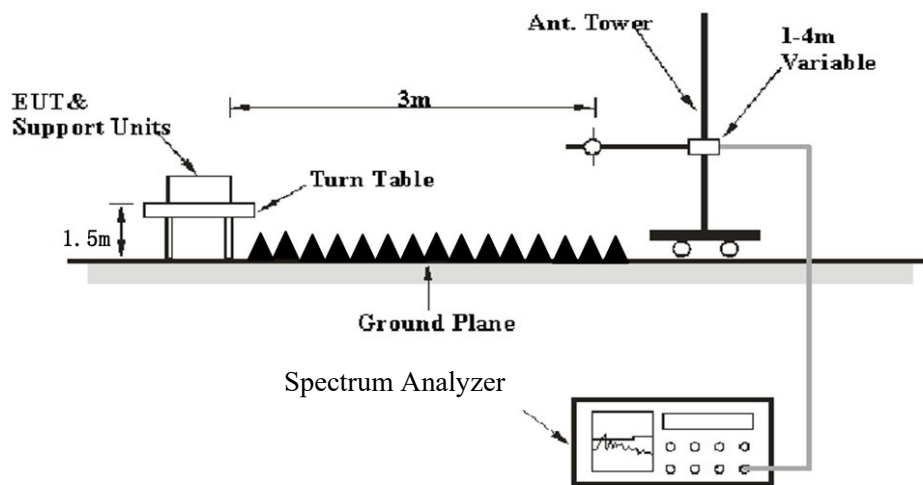
EUT Setup

9 kHz-30MHz:



30MHz-1GHz:



Above 1GHz:

The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9kHz to 25 GHz.

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

9kHz-1GHz:

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

1-25GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	10 Hz
	<98%	1MHz	≥1/Ton

Note: Ton is minimum transmission duration

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

Test Procedure

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

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

All emissions under the average limit and under the noise floor have not recorded in the report.

Factor & Over Limit/Margin 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:

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

6 dB Emission Bandwidth

Applicable Standard

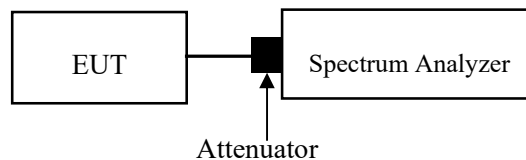
According to FCC §15.247(a) (2)

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

Test Method: ANSI C63.10-2013 Clause 11.8.1

- a) Set RBW = 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Maximum Conducted Output Power

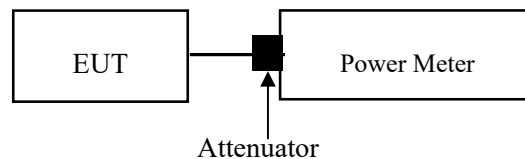
Applicable Standard

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.

Test Procedure

Test method: ANSI C63.10-2013 clause 11.9.1.3 for peak power method or clause 11.9.2.3.2 for average power method.

1. Place the EUT on a bench 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 one test equipment.
3. Add a correction factor to the display.



100kHz Bandwidth of Frequency Band Edge

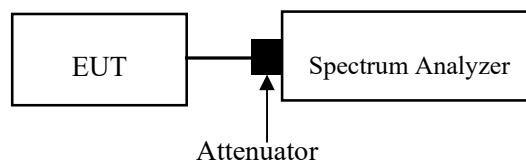
Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

Test Method: ANSI C63.10-2013 Clause 11.11

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



Power Spectral Density

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

Test method: ANSI C63.10-2013 Clause 11.10.2

Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

1. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
2. Set the VBW $\geq 3 \times \text{RBW}$.
3. Set the span to 1.5 times the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level within the RBW.
9. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Method: ANSI C63.10-2013 Clause 11.10.3 Method AVGPSD-1

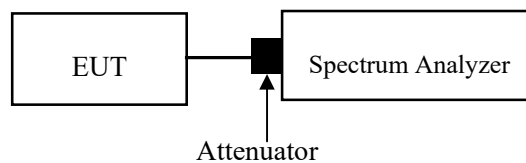
The following procedure may be used when the maximum (average) conducted output power was used to determine compliance to the fundamental output power limit. This is the baseline method for determining the maximum (average) conducted PSD level. If the instrument has a power averaging (rms) detector, then it must be used; otherwise, use the sample detector. The EUT must be configured to transmit continuously ($D \geq 98\%$), or else sweep triggering/signal gating must be implemented to ensure that measurements are made only when the EUT is transmitting at its maximum power control level (no transmitter OFF time to be considered):

1. Set instrument center frequency to DTS channel center frequency.
2. Set span to at least 1.5 times the OBW.
3. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{BW}$.
5. Detector = power averaging (rms) or sample detector (when rms not available)
6. Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
7. Sweep time = auto couple.
8. Employ trace averaging (rms) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level.
10. If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

Test Method: ANSI C63.10-2013 Clause 11.10.5 Method AVGPSSD-2

The following procedure is applicable when the EUT cannot be configured to transmit continuously (i.e., $D < 98\%$), when sweep triggering/signal gating cannot be used to measure only when the EUT is transmitting at its maximum power control level, and when the transmission duty cycle is constant (i.e., duty cycle variations are less than $\pm 2\%$):

1. Measure the duty cycle (D) of the transmitter output signal as described in 11.6.
2. Set instrument center frequency to DTS channel center frequency.
3. Set span to at least 1.5 times the OBW.
4. Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
5. Set the VBW $\geq 3 \times \text{BW}$.
6. Detector = power averaging (rms) or sample detector (when rms not available)
7. Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
8. Sweep time = auto couple.
9. Do not use sweep triggering; allow sweep to “free run.”
10. Employ trace averaging (rms) mode over a minimum of 100 traces.
11. Use the peak marker function to determine the maximum amplitude level.
12. If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).



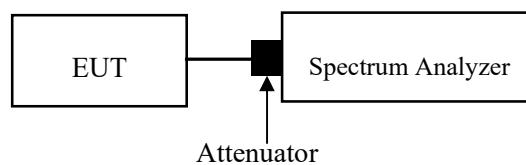
Duty Cycle

Test Procedure

According to ANSI C63.10-2013 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \geq RBW$. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)



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 use of a standard antenna jack or electrical connector is prohibited.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connector Construction

The EUT has a monopole antenna arrangement, which was permanently attached, the antenna gain[#] is 1.45 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

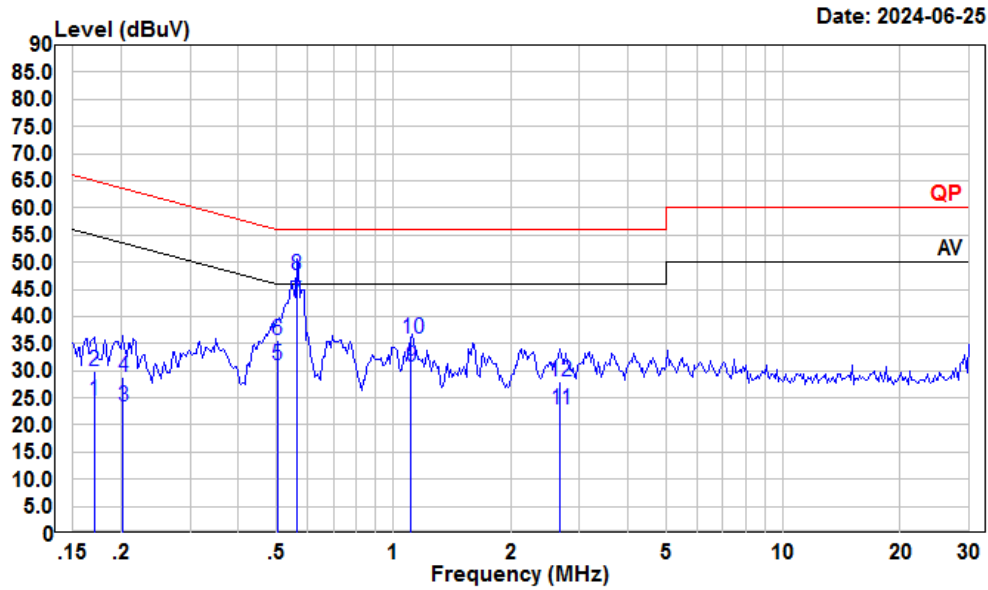
Result: Compliant

TEST DATA AND RESULTS

AC Line Conducted Emissions

Environmental Conditions

Temperature (°C)	25	Relative Humidity (%)	64
ATM Pressure (kPa)	101	Test engineer	Macy Shi
Test date	2024/06/25		
EUT operation mode	Transmitting(Maximum output power mode, 802.11g low channel)		



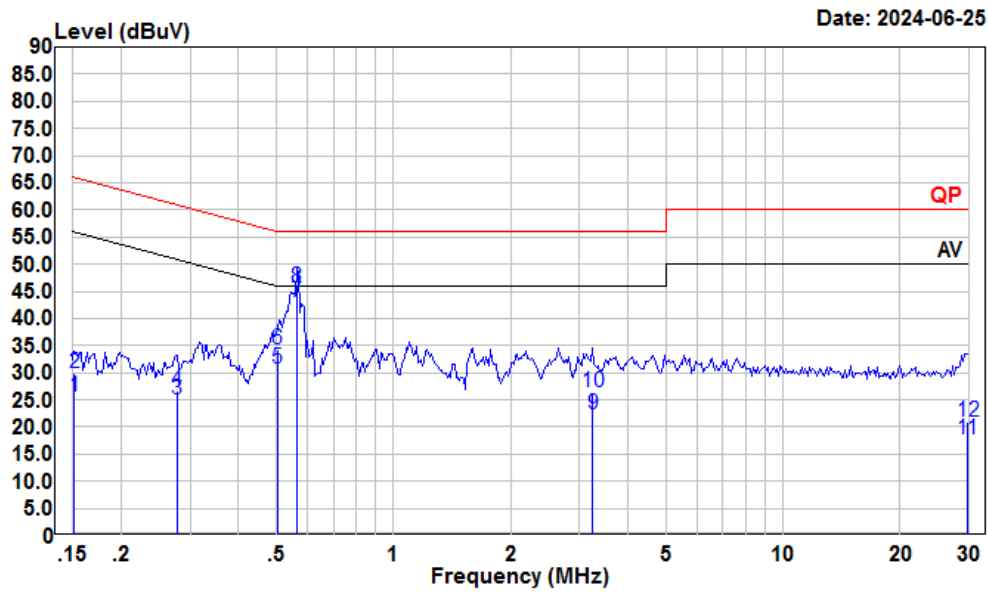
Condition: Line

Project : 2401U55865E-RF

tester : Macy.shi

Note : 2.4G WIFI

		Read		LISN	Cable	Limit	Over	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.17	3.44	24.40	10.86	10.10	54.94	-30.54	Average
2	0.17	8.86	29.82	10.86	10.10	64.94	-35.12	QP
3	0.20	2.63	23.52	10.80	10.09	53.54	-30.02	Average
4	0.20	8.02	28.91	10.80	10.09	63.54	-34.63	QP
5	0.50	15.07	31.12	10.50	10.14	46.00	-14.88	Average
6	0.50	15.07	35.71	10.50	10.14	56.00	-20.29	QP
7	0.56	22.06	42.69	10.50	10.13	46.00	-3.31	Average
8	0.56	26.96	47.59	10.50	10.13	56.00	-8.41	QP
9	1.11	10.20	30.76	10.43	10.13	46.00	-15.24	Average
10	1.11	15.30	35.86	10.43	10.13	56.00	-20.14	QP
11	2.68	2.14	22.78	10.47	10.17	46.00	-23.22	Average
12	2.68	7.33	27.97	10.47	10.17	56.00	-28.03	QP



Condition: Neutral

Project : 2401U55865E-RF

tester : Macy.shi

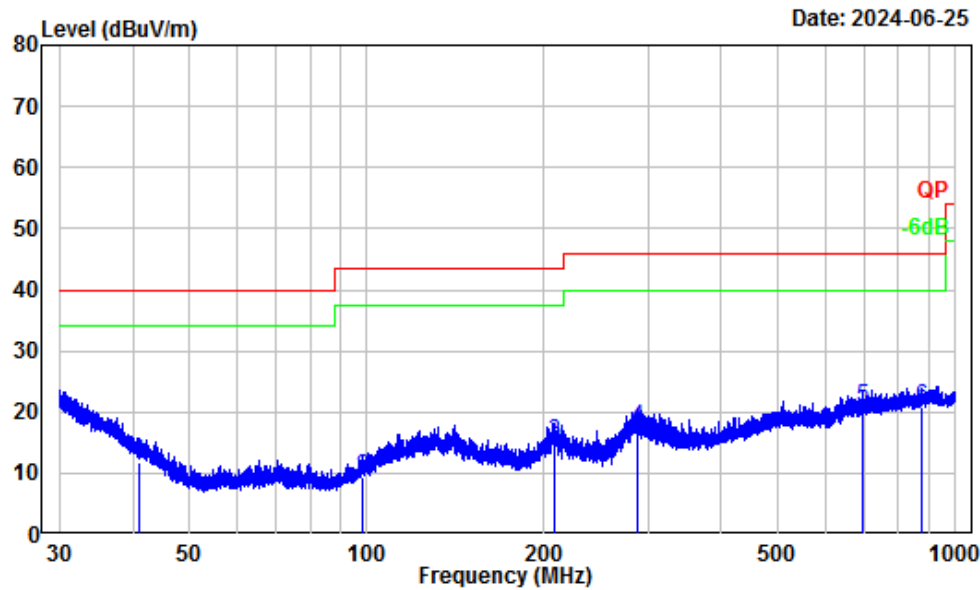
Note : 2.4G WIFI

		Read		LISN	Cable	Limit	Over	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.15	4.74	25.46	10.59	10.13	55.91	-30.45	Average
2	0.15	9.25	29.97	10.59	10.13	65.91	-35.94	QP
3	0.28	4.30	24.91	10.51	10.10	50.90	-25.99	Average
4	0.28	6.06	26.67	10.51	10.10	60.90	-34.23	QP
5	0.50	9.89	30.73	10.70	10.14	46.00	-15.27	Average
6	0.50	13.35	34.19	10.70	10.14	56.00	-21.81	QP
7	0.56	22.09	42.92	10.70	10.13	46.00	-3.08	Average
8	0.56	24.96	45.79	10.70	10.13	56.00	-10.21	QP
9	3.24	1.85	22.44	10.40	10.19	46.00	-23.56	Average
10	3.24	5.83	26.42	10.40	10.19	56.00	-29.58	QP
11	29.68	-3.09	17.64	10.51	10.22	50.00	-32.36	Average
12	29.68	0.35	21.08	10.51	10.22	60.00	-38.92	QP

Spurious Emissions**Environmental Conditions**

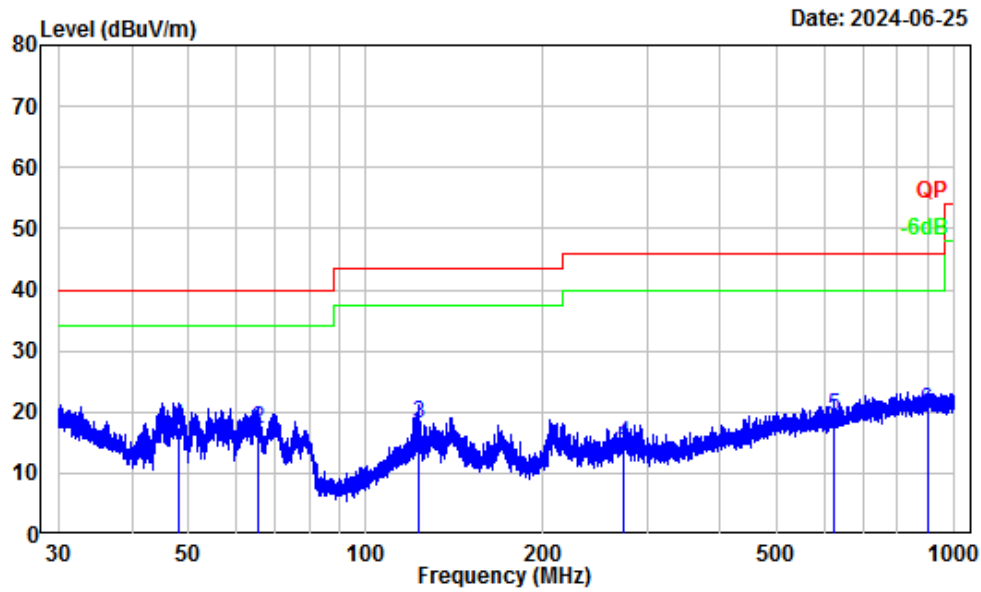
Temperature (°C)	25-27	Relative Humidity (%)	50-52
ATM Pressure (kPa):	101	Test engineer:	Jack Liu/Dylan Yang
Test date:	2024/06/25—2024/07/05		
EUT operation mode:	Below 1GHz: Transmitting(Maximum output power mode, 802.11g low channel) Above 1GHz: Transmitting		
Note:	After pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation were recorded. For the radiated spurious emission below 30MHz, the emissions are 20dB below the limit or the noise floor which are not recorded.		

Below 1GHz:



Site : Chamber A
Condition : 3m Horizontal
Project Number: 2401U55865E-RF
Test Mode : 2.4G wifi
Tester : Jack Liu

	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	41.04	-12.19	24.01	11.82	40.00	-28.18	QP
2	98.40	-15.86	25.12	9.26	43.50	-34.24	QP
3	207.58	-13.65	28.77	15.12	43.50	-28.38	QP
4	287.74	-13.20	30.76	17.56	46.00	-28.44	QP
5	695.94	-6.20	27.01	20.81	46.00	-25.19	QP
6	876.78	-4.61	25.45	20.84	46.00	-25.16	QP



Site : Chamber A
Condition : 3m Vertical
Project Number: 2401U55865E-RF
Test Mode : 2.4G wifi
Tester : Jack Liu

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	48.23	-17.63	35.07	17.44	40.00	-22.56	QP
2	65.66	-18.74	35.95	17.21	40.00	-22.79	QP
3	123.27	-12.70	30.72	18.02	43.50	-25.48	QP
4	273.23	-14.11	28.94	14.83	46.00	-31.17	QP
5	623.16	-7.73	26.98	19.25	46.00	-26.75	QP
6	898.96	-4.84	25.06	20.22	46.00	-25.78	QP

Above 1GHz:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11b							
Low Channel							
2386.58	66.62	PK	H	-2.93	63.69	74	-10.31
2386.58	48.83	AV	H	-2.93	45.9	54	-8.1
2387.41	65.23	PK	V	-2.93	62.3	74	-11.7
2387.41	47.41	AV	V	-2.93	44.48	54	-9.52
4824	50.46	PK	H	1.69	52.15	74	-21.85
4824	45.34	AV	H	1.69	47.03	54	-6.97
4824	46.85	PK	V	1.69	48.54	74	-25.46
4824	41.15	AV	V	1.69	42.84	54	-11.16
Middle Channel							
4874	50.46	PK	H	1.69	52.15	74	-21.85
4874	43.82	AV	H	1.69	45.51	54	-8.49
4874	47.06	PK	V	1.69	48.75	74	-25.25
4874	41.15	AV	V	1.69	42.84	54	-11.16
High Channel							
2489.45	56.15	PK	H	-3.18	52.97	74	-21.03
2489.45	44.37	AV	H	-3.18	41.19	54	-12.81
2496.34	54.83	PK	V	-3.19	51.64	74	-22.36
2496.34	42.28	AV	V	-3.19	39.09	54	-14.91
4924	49.16	PK	H	1.79	50.95	74	-23.05
4924	42.31	AV	H	1.79	44.1	54	-9.9
4924	47.63	PK	V	1.79	49.42	74	-24.58
4924	40.93	AV	V	1.79	42.72	54	-11.28

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11g							
Low Channel							
2388.09	74.35	PK	H	-2.93	71.42	74	-2.58
2388.09	55.98	AV	H	-2.93	53.05	54	-0.95
2389.35	73.23	PK	V	-2.93	70.3	74	-3.7
2389.35	55.41	AV	V	-2.93	52.48	54	-1.52
4824	48.58	PK	H	1.69	50.27	74	-23.73
4824	34.08	AV	H	1.69	35.77	54	-18.23
4824	46.75	PK	V	1.69	48.44	74	-25.56
4824	32.68	AV	V	1.69	34.37	54	-19.63
Middle Channel							
4874	48.52	PK	H	1.69	50.21	74	-23.79
4874	33.97	AV	H	1.69	35.66	54	-18.34
4874	47.62	PK	V	1.69	49.31	74	-24.69
4874	32.78	AV	V	1.69	34.47	54	-19.53
High Channel							
2484.01	71.02	PK	H	-3.1	67.92	74	-6.08
2484.01	47.87	AV	H	-3.1	44.77	54	-9.23
2484.56	70.63	PK	V	-3.1	67.53	74	-6.47
2484.56	46.39	AV	V	-3.1	43.29	54	-10.71
4924	48.32	PK	H	1.79	50.11	74	-23.89
4924	33.95	AV	H	1.79	35.74	54	-18.26
4924	47.51	PK	V	1.79	49.3	74	-24.7
4924	32.97	AV	V	1.79	34.76	54	-19.24

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11n20							
Low Channel							
2389.13	75.51	PK	H	-2.93	72.58	74	-1.42
2389.13	55.68	AV	H	-2.93	52.75	54	-1.25
2388.41	74.23	PK	V	-2.93	71.3	74	-2.7
2388.41	55.87	AV	V	-2.93	52.94	54	-1.06
4824	47.87	PK	H	1.69	49.56	74	-24.44
4824	33.52	AV	H	1.69	35.21	54	-18.79
4824	46.85	PK	V	1.69	48.54	74	-25.46
4824	32.52	AV	V	1.69	34.21	54	-19.79
Middle Channel							
4874	48.36	PK	H	1.69	50.05	74	-23.95
4874	33.45	AV	H	1.69	35.14	54	-18.86
4874	47.69	PK	V	1.69	49.38	74	-24.62
4874	32.89	AV	V	1.69	34.58	54	-19.42
High Channel							
2484.42	71.91	PK	H	-3.1	68.81	74	-5.19
2484.42	53.06	AV	H	-3.1	49.96	54	-4.04
2484.08	70.33	PK	V	-3.1	67.23	74	-6.77
2484.08	52.41	AV	V	-3.1	49.31	54	-4.69
4924	48.32	PK	H	1.79	50.11	74	-23.89
4924	32.85	AV	H	1.79	34.64	54	-19.36
4924	48.65	PK	V	1.79	50.44	74	-23.56
4924	32.92	AV	V	1.79	34.71	54	-19.29

Note:

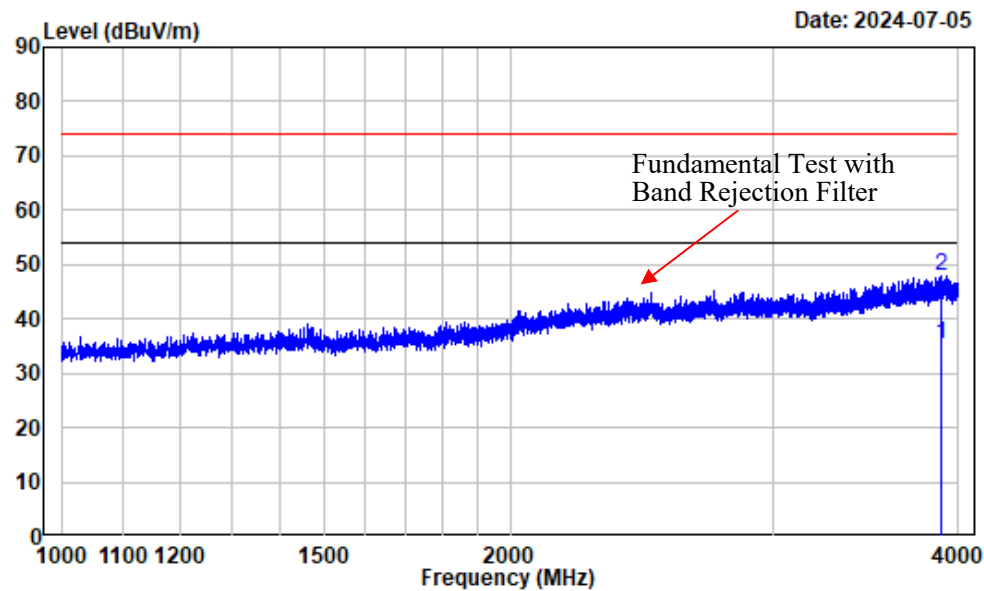
Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude/Level = Corrected Factor + Reading

Margin = Corrected Amplitude/Level - Limit

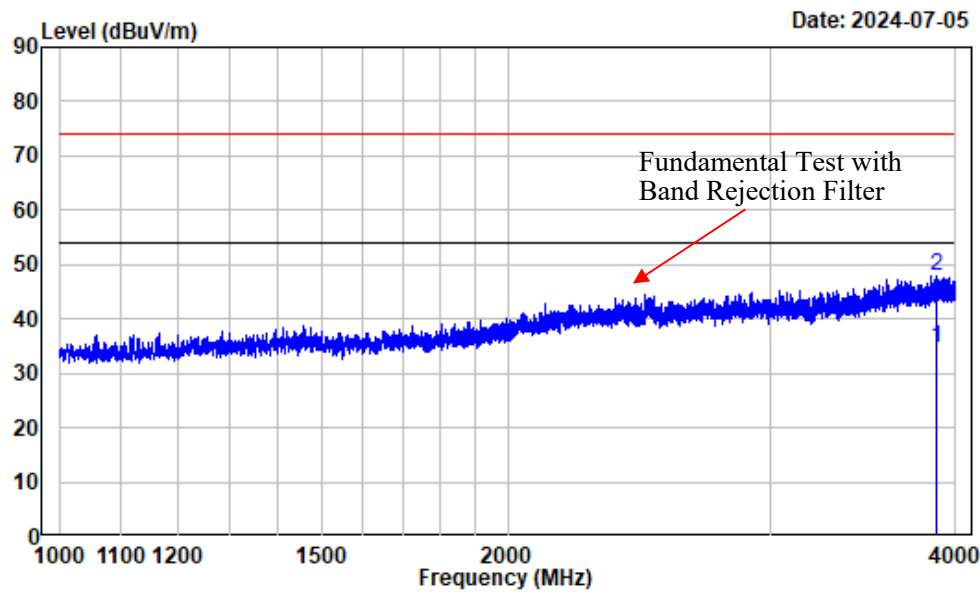
The other spurious emission which is in the noise floor level was not recorded.

Test plots



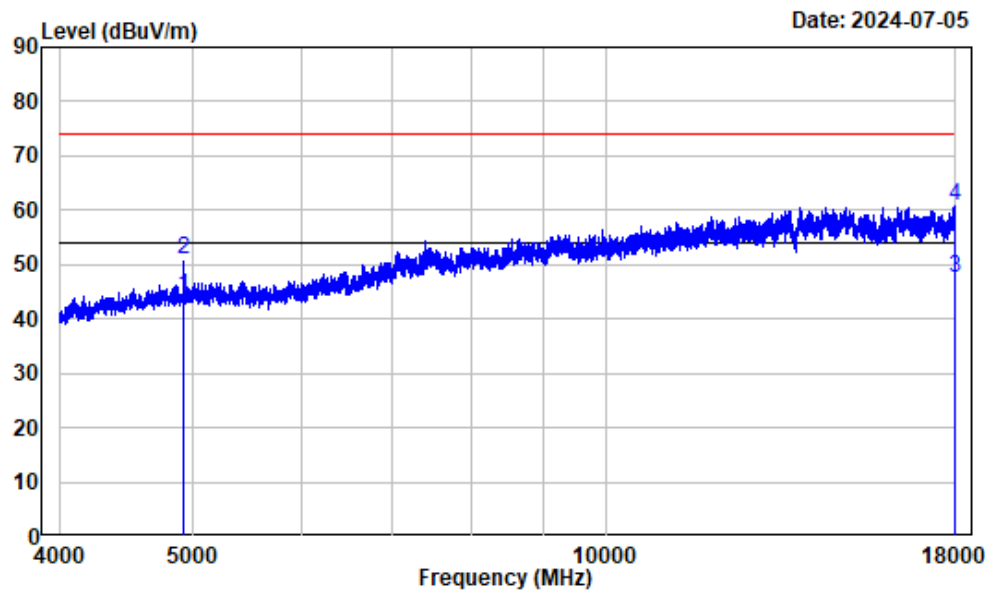
Condition : Horizontal
Project No.: 2401U55865E-RF
Tester : Dylan
Note : 802.11B_2462

		Read		Limit	Over	Remark
Freq Factor		Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	3899.875	-0.53	35.87	35.34	54.00	-18.66 Average
2	3899.875	-0.53	48.53	48.00	74.00	-26.00 Peak



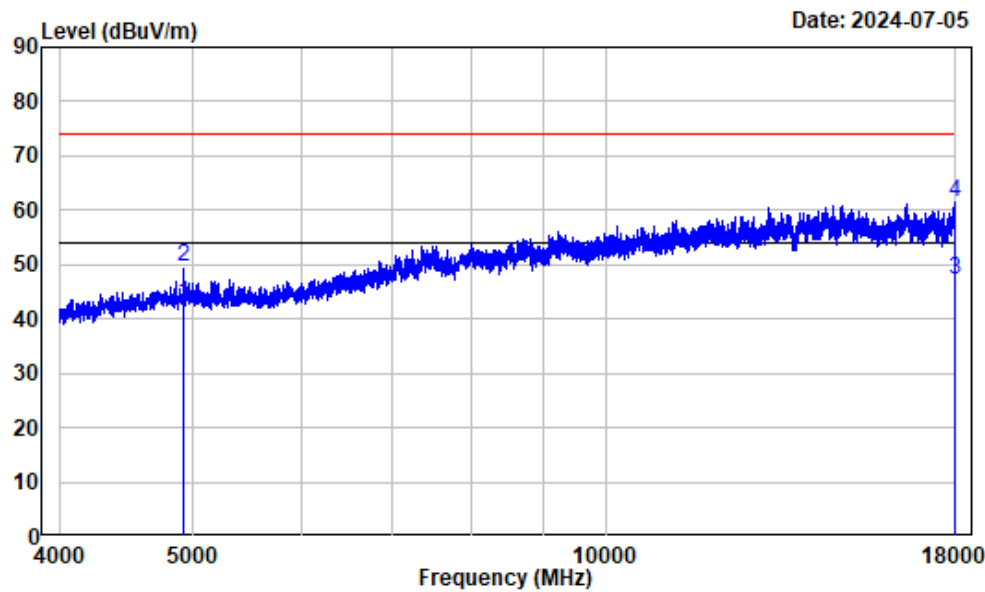
Condition : Vertical
Project No.: 2401U55865E-RF
Tester : Dylan
Note : 802.11B_2462

		Read		Limit	Over	Remark
Freq		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3884.125	-0.60	35.26	34.66	54.00	-19.34 Average
2	3884.125	-0.60	48.59	47.99	74.00	-26.01 Peak



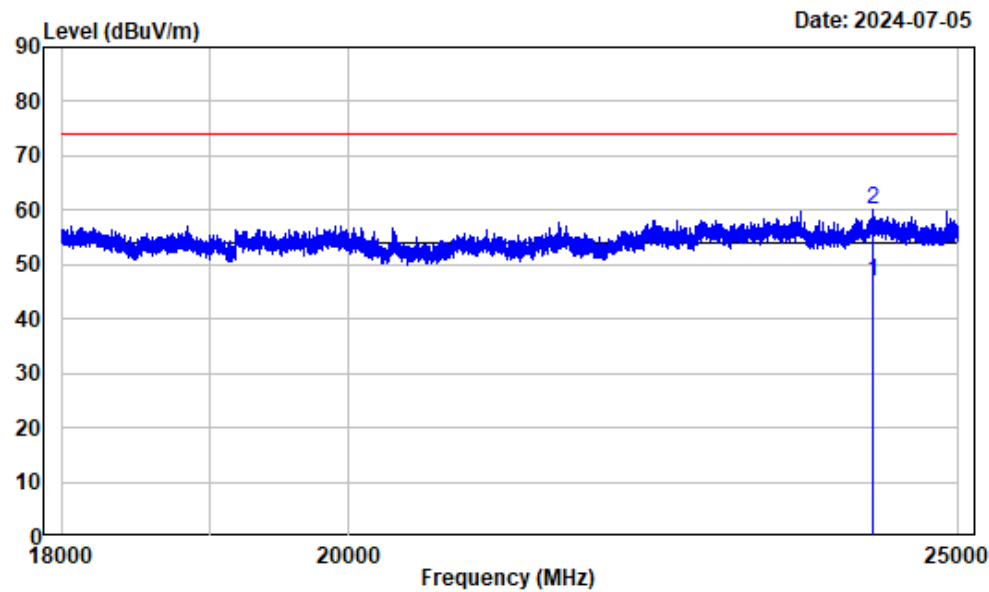
Condition : Horizontal
Project No.: 2401U55865E-RF
Tester : Dylan
Note : 802.11B_2462

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	1.79	42.31	44.10	54.00	-9.90	Average
2	4924.000	1.79	49.16	50.95	74.00	-23.05	Peak
3	17991.250	24.56	23.12	47.68	54.00	-6.32	Average
4	17991.250	24.56	36.36	60.92	74.00	-13.08	Peak



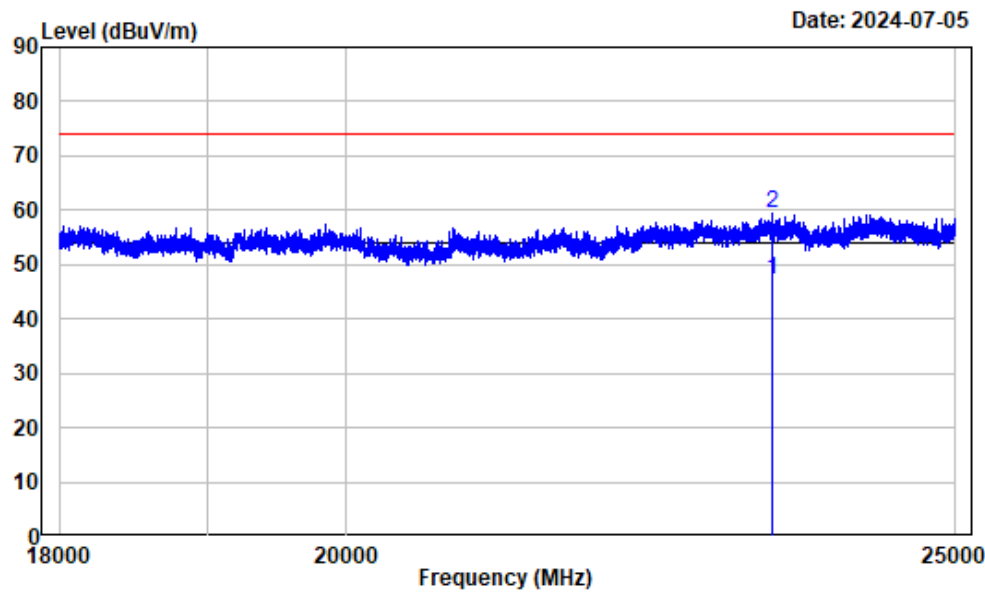
Condition : Vertical
Project No.: 2401U55865E-RF
Tester : Dylan
Note : 802.11B_2462

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	1.79	40.93	42.72	54.00	-11.28	Average
2	4924.000	1.79	47.63	49.42	74.00	-24.58	Peak
3	17987.750	24.53	22.78	47.31	54.00	-6.69	Average
4	17987.750	24.53	36.79	61.32	74.00	-12.68	Peak



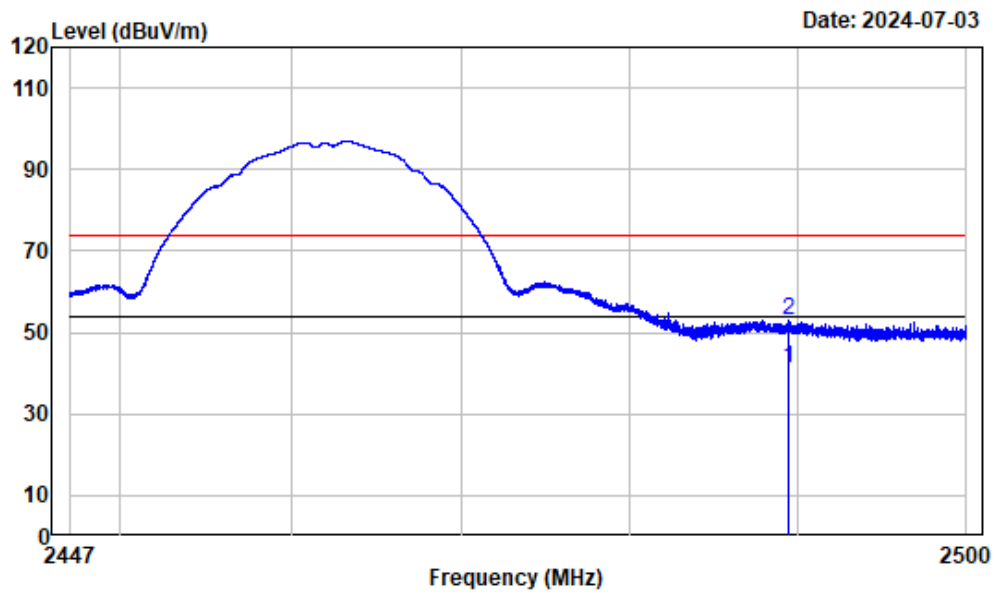
Condition : Horizontal
Project No.: 2401U55865E-RF
Tester : Dylan
Note : 802.11B_2462

Freq Factor		Read Level		Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 24223.000	18.34	28.39	46.73	54.00	-7.27	Average
2 24223.000	18.34	41.65	59.99	74.00	-14.01	peak



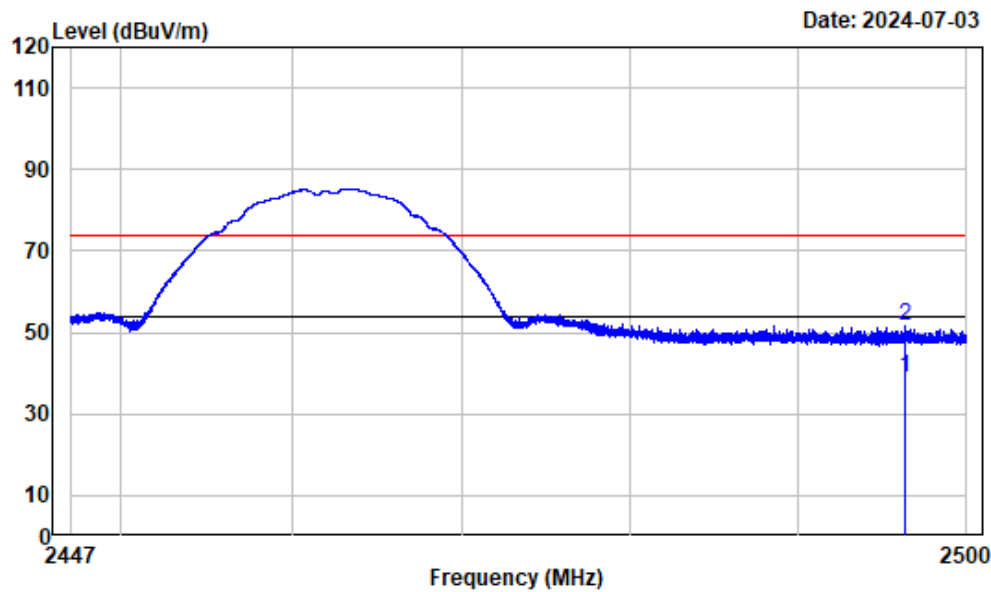
Condition : Vertical
Project No.: 2401U55865E-RF
Tester : Dylan
Note : 802.11B_2462

Freq		Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz		dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	23374.250	17.40	29.64	47.04	54.00	-6.96	Average
2	23374.250	17.40	41.90	59.30	74.00	-14.70	peak



Condition : Horizontal
Project No.: 2401U55865E-RF
Tester : Dylan
Note : 802.11B_2462

		Read		Limit	Over	Remark
Freq	Factor	Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2489.453	-3.18	44.37	41.19	54.00	-12.81 Average
2	2489.453	-3.18	56.15	52.97	74.00	-21.03 peak



Condition : Vertical
Project No.: 2401U55865E-RF
Tester : Dylan
Note : 802.11B_2462

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2496.343	-3.19	42.28	39.09	54.00	-14.91	Average
2	2496.343	-3.19	54.83	51.64	74.00	-22.36	peak

6dB Emission Bandwidth

Test Information:

Serial No.:	2N2E-3	Test Date:	2024/07/05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	26	Relative Humidity: (%)	58	ATM Pressure: (kPa)	101
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2.4G

Mode	Value (MHz)	Limit (MHz)	Result
b_2412MHz	10.190	≥ 0.5	Pass
b_2437MHz	10.190	≥ 0.5	Pass
b_2462MHz	10.150	≥ 0.5	Pass
g_2412MHz	16.424	≥ 0.5	Pass
g_2437MHz	16.424	≥ 0.5	Pass
g_2462MHz	16.464	≥ 0.5	Pass
n20_2412MHz	17.702	≥ 0.5	Pass
n20_2437MHz	17.702	≥ 0.5	Pass
n20_2462MHz	17.702	≥ 0.5	Pass

b_2412MHz



ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 14:40:01

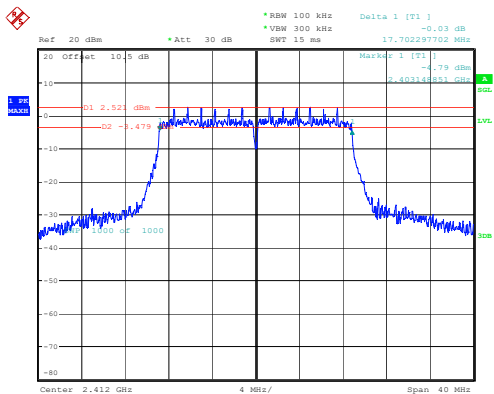
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 14:41:37

ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 14:43:06

ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 14:44:11

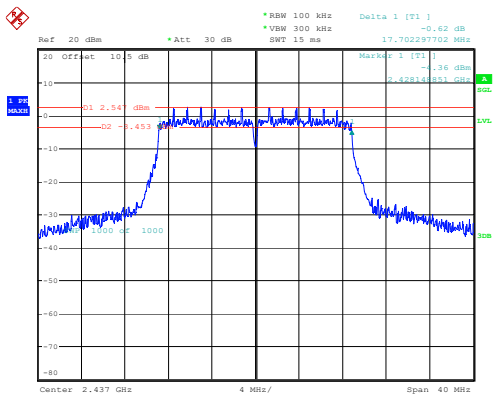
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 14:45:49

n20_2412MHz



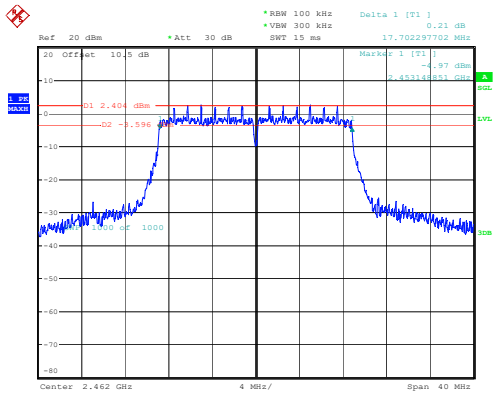
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 14:47:09

n20_2437MHz



ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 18:28:45

n20_2462MHz



ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 14:50:02

Maximum Conducted Output Power

Test Information:

Serial No.:	2N2E-3	Test Date:	2024/07/05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	26	Relative Humidity: (%)	58	ATM Pressure: (kPa)	101
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2.4G

Mode	Peak Output Power (dBm)	Average Output Power (dBm)	Limit (dBm)	Result
b_2412MHz	19.16	15.65	30.00	Pass
b_2437MHz	19.09	15.60	30.00	Pass
b_2462MHz	18.99	15.50	30.00	Pass
g_2412MHz	22.70	14.33	30.00	Pass
g_2437MHz	22.65	14.33	30.00	Pass
g_2462MHz	22.61	14.26	30.00	Pass
n20_2412MHz	22.09	13.81	30.00	Pass
n20_2437MHz	22.22	13.98	30.00	Pass
n20_2462MHz	22.07	13.80	30.00	Pass

100 kHz Bandwidth of Frequency Band Edge

Test Information:

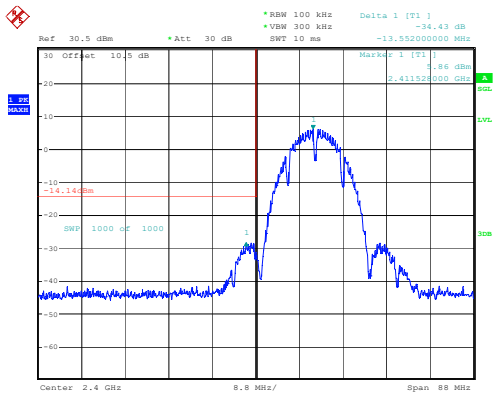
Serial No.:	2N2E-3	Test Date:	2024/07/11
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	26	Relative Humidity: (%)	58	ATM Pressure: (kPa)	101
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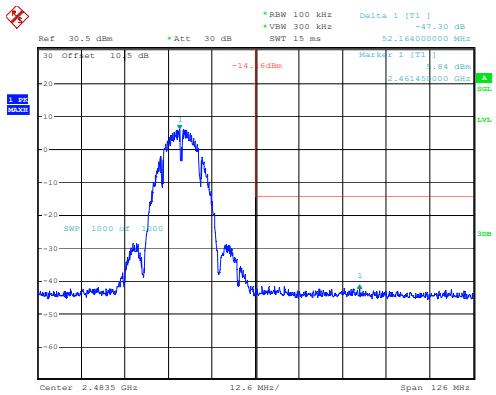
2.4G

b_2412MHz



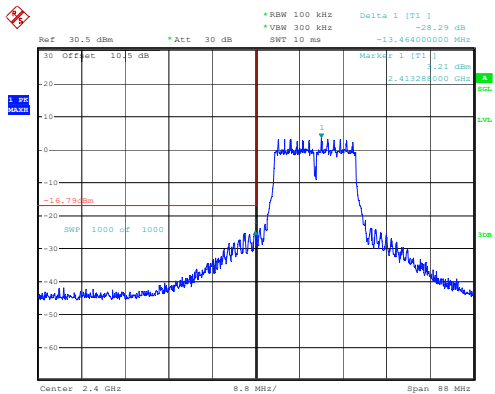
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 11.JUL.2024 17:14:45

b_2462MHz



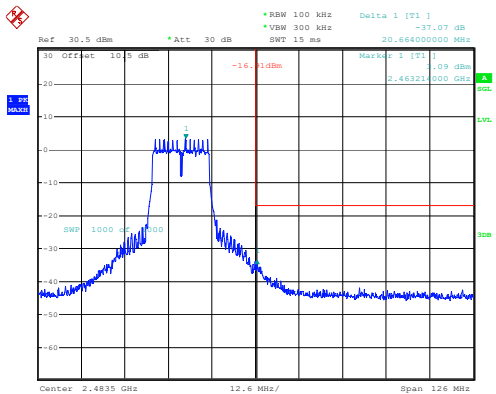
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 11.JUL.2024 17:16:28

g_2412MHz



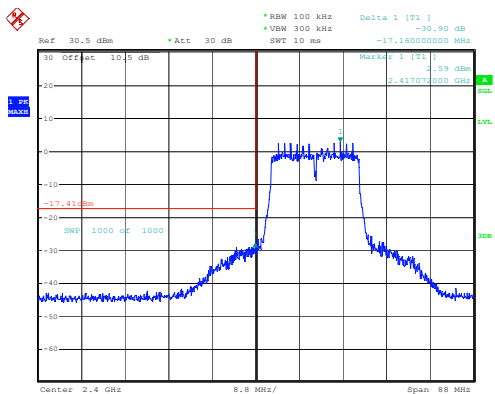
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 11.JUL.2024 17:17:23

g_2462MHz



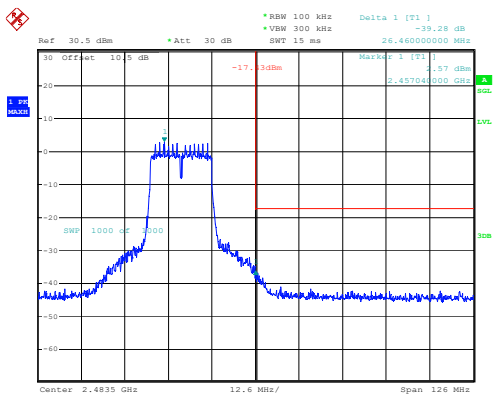
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 11.JUL.2024 17:18:23

n20_2412MHz



ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 11.JUL.2024 17:19:42

n20_2462MHz



ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 11.JUL.2024 17:22:02

Power Spectral Density

Test Information:

Serial No.:	2N2E-3	Test Date:	2024/07/05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

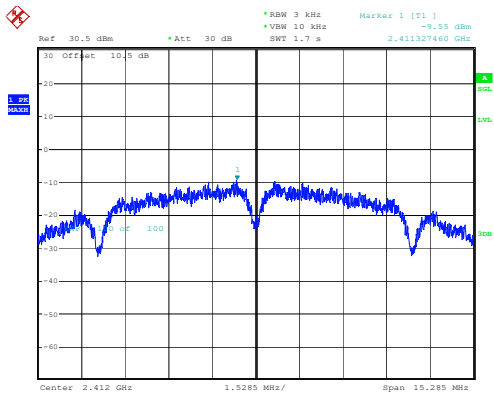
Temperature: (°C):	26	Relative Humidity: (%)	58	ATM Pressure: (kPa)	101
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2.4G

Mode	Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
b_2412MHz	-9.55	8.00	Pass
b_2437MHz	-9.84	8.00	Pass
b_2462MHz	-9.67	8.00	Pass
g_2412MHz	-11.82	8.00	Pass
g_2437MHz	-11.65	8.00	Pass
g_2462MHz	-12.17	8.00	Pass
n20_2412MHz	-12.02	8.00	Pass
n20_2437MHz	-12.20	8.00	Pass
n20_2462MHz	-12.77	8.00	Pass

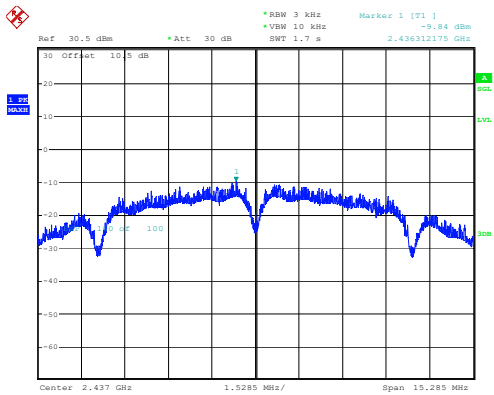
2.4G

b_2412MHz



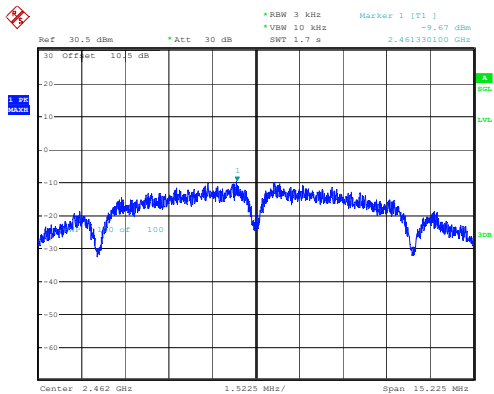
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 16:13:17

b_2437MHz



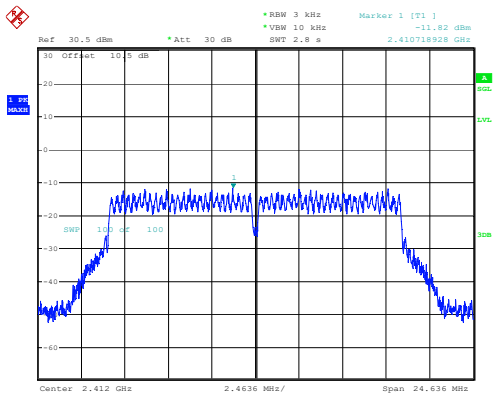
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 16:17:32

b_2462MHz



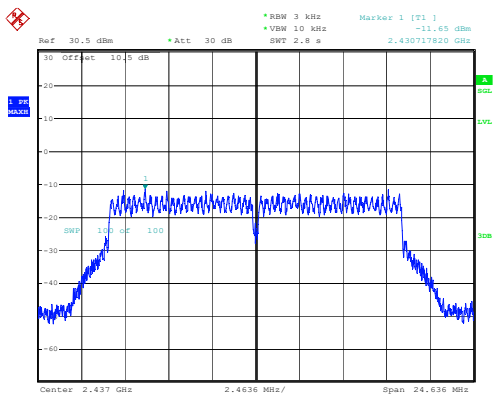
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 16:23:41

g_2412MHz



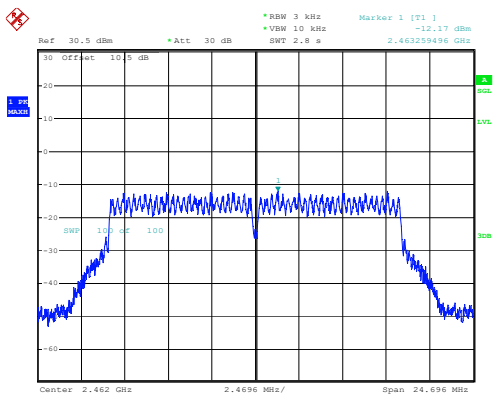
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 16:42:18

g_2437MHz



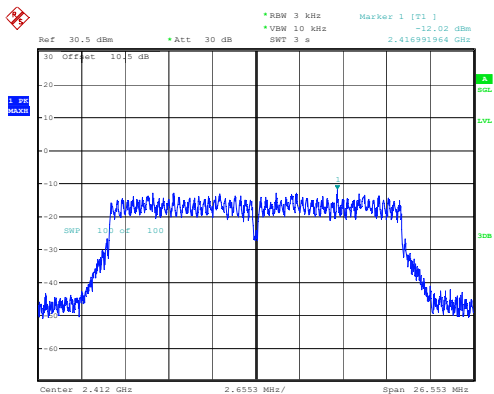
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 16:52:25

g_2462MHz



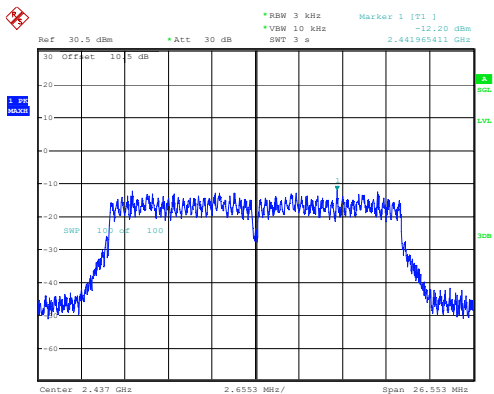
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 16:58:50

n20_2412MHz



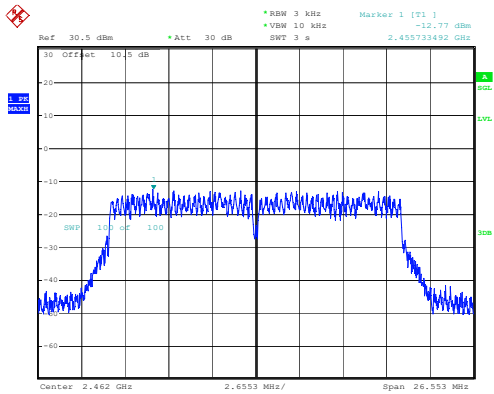
ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 17:05:57

n20_2437MHz



ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 18:06:24

n20_2462MHz



ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 5.JUL.2024 18:13:47

Duty Cycle

Test Information:

Serial No.:	2N2E-3	Test Date:	2024/07/06
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	N/A

Environmental Conditions:

Temperature: (°C):	26	Relative Humidity: (%)	58	ATM Pressure: (kPa)	101
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2.4G

Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/T _{on} (Hz)	VBW Setting (kHz)
b_2437MHz	8.443	8.588	98.31	/	/	0.010
g_2437MHz	1.387	1.411	98.30	/	/	0.010
n20_2437MHz	5.128	5.210	98.43	/	/	0.010

$$\text{Duty Cycle} = T_{\text{on}} / (T_{\text{on}} + T_{\text{off}}) * 100\%$$

b_2437MHz



ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 6.JUL.2024 15:30:46

ProjectNo.:2401U55865E-RF Tester:Rainbow Zhu
Date: 6.JUL.2024 15:34:24

RF EXPOSURE EVALUATION

FCC §15.247 (i) & §1.1307 (b) (3) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

R is the minimum separation distance in meters

f = frequency in MHz

Result

Mode	Frequency (MHz)	Tune up conducted power [#] (dBm)	Antenna Gain [#]		ERP		Evaluation Distance (m)	ERP Limit (W)
			(dBi)	(dBd)	(dBm)	(W)		
Wi-Fi	2412~2462	23	1.45	-0.7	22.3	0.170	0.2	0.768

Note: The tune up conducted power and antenna gain was declared by the applicant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant

EUT PHOTOGRAPHS

Please refer to the attachment 2401U55865E-RF External photo and 2401U55865E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401U55865E-RF-00A Test Setup photo.

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