

FCC PART 15.247

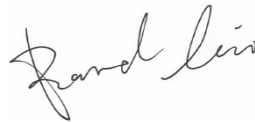
TEST REPORT

For

OYMotion Technologies Co., Ltd.

Floor 6, Building 2, 222 Guangdan Road, Pudong, Shanghai China

FCC ID: 2AWVV-OB-1000

Report Type: Original Report	Product Name: Electroencephalogram Machine
Report Number:	RSHA231228001-00B
Report Date:	2024-05-15
Reviewed By:	Bard Liu 
Approved By:	Kyle Xu 
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S. Government.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RSHA231228001-00B	R1V1	2024-05-15	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	OYMotion Technologies Co., Ltd.
Tested Model:	OB-1000-64LB
Series Model:	OB-1000-32LB, OB-1000-16LB, OB-1000-8LB
Model Difference:	model name and EEG Cap (difference in number of channels)
Product Name:	Electroencephalogram Machine
Power Supply	DC 3.7V
RF Function:	WIFI
Operating Band/Frequency:	2412~2462 MHz(802.11b/g/n20), 2422~2452 MHz(802.11n40)
Channel Number:	11(802.11b/g/n20), 7(802.11n40)
Channel Separation:	5 MHz
Modulation Type:	DSSS, OFDM
Antenna Type:	FPC Antenna
★Maximum Antenna Gain:	2.04 dBi
Maximum Output Power:	802.11b: 23.36 dBm 802.11g: 24.67 dBm 802.11n20: 24.66 dBm 802.11n40: 24.58 Bm

Adapter Information:

Model: DL-NB13L

Input: MICRO USB 5V, 2A(MIN)

USB-C 5V, 2A(MIN)

Output: 4.2V, 700mA*2

Note: The maximum antenna gain is provided by the applicant.

All measurement and tested data in this report was gathered from production sample serial number: RSHA231228001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2023-12-28.)

Objective

This report is prepared for OYMotion Technologies Co., Ltd. in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine Compliant with FCC Part 15, Subpart C, and section 15.203, 15.205, 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.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN5055.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Test channel list is as below:

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

For 802.11n-HT40 mode, EUT was tested with Channel 3, 6 and 9.

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

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

RF test tool: EspRFTTestTool

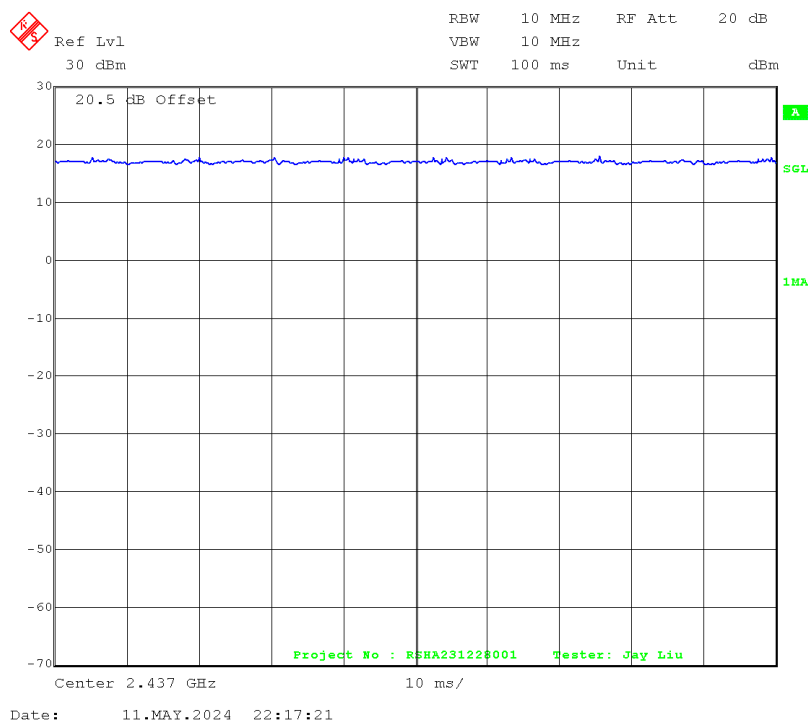
Pre-scan with all the data rates, and the worst case was performed as below:

Mode	Data Rate	Channel	★Power Level
802.11b	1 Mbps	Low	5
		Middle	5
		High	5
802.11g	6 Mbps	Low	6
		Middle	6
		High	6
802.11n-HT20	MCS0	Low	6
		Middle	6
		High	6
802.11n-HT40	MCS0	Low	6
		Middle	6
		High	6

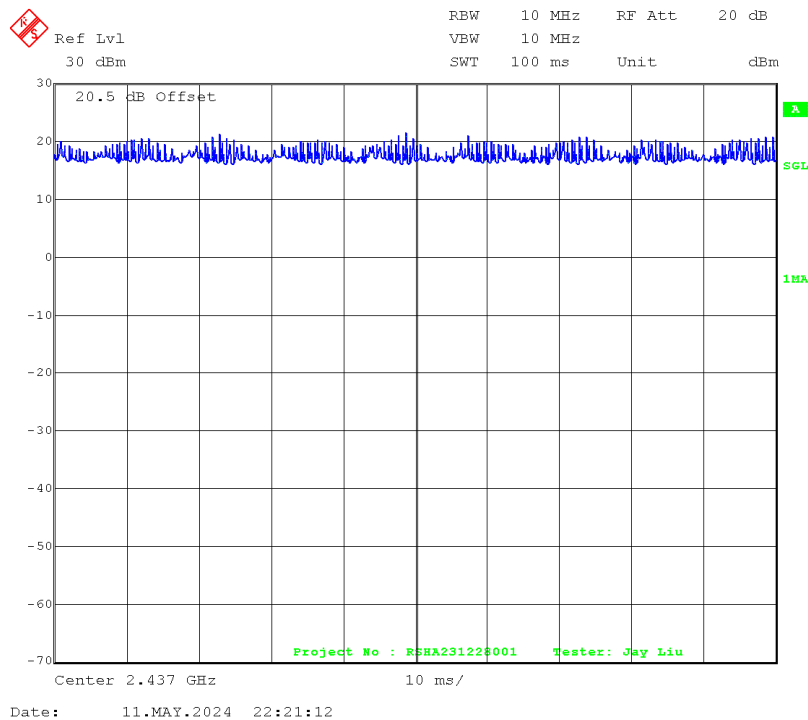
Note: The power level was declared by the applicant.

Duty Cycle:

802.11b Mode Middle Channel



802.11g Mode Middle Channel



Ref Lvl 30 dBm RBW 10 MHz RF Att 20 dB VBW 10 MHz Unit dBm

20.5 dB Offset

Center 2.437 GHz 10 ms/

Project No : RSHA231228001 Tester: Jay Liu

Date: 11.MAY.2024 22:18:29

Ref Lvl 30 dBm RBW 10 MHz VBW 10 MHz SWT 100 ms RF Att 20 dB

20.5 dB Offset

Center 2.437 GHz 10 ms/

Project No : RSHA231228001 Tester: Jay Liu

Date: 11.MAY.2024 22:22:42

Mode	Duty Cycle(%)	Ton(ms)	Ton+off(ms)	10log(1/x)
802.11b	100	100	100	0
802.11g	100	100	100	0
802.11n-HT20	100	100	100	0
802.11n-HT40	100	100	100	0

Note: “x” means the Duty Cycle.

Support Equipment List and Details

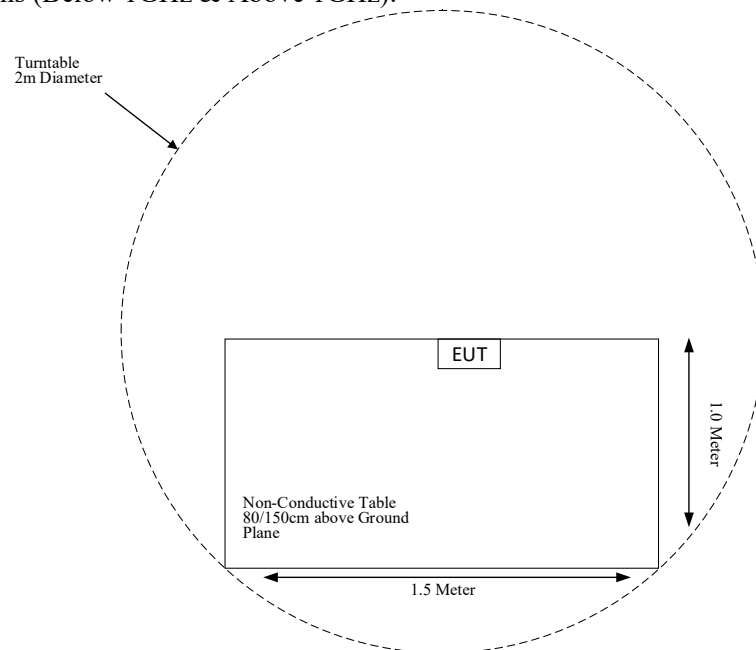
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

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

Block Diagram of Test Setup

For Radiated Emissions (Below 1GHz & Above 1GHz):



TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test(Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2023-05-23	2024-05-22
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2023-11-11	2024-11-10
ETS-LINDGREN	Loop Antenna	6512	108100	2023-11-09	2024-11-08
Sonoma Instrument	Pre-amplifier	310N	171205	2023-05-23	2024-05-22
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-9	009	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-10	010	2023-05-23	2024-05-22
Narda	6 dB Attenuator	773-6	10690812-2-1	2023-11-11	2024-11-10
Radiated Emission Test(Chamber 2#)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2023-05-19	2024-05-18
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2023-12-02	2024-12-01
ETS-LINDGREN	Horn Antenna	3116	2516	2023-12-08	2024-12-07
A.H.Systems,inc	Amplifier	2641-1(PAM-0118P)	512	2023-05-23	2024-05-22
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2023-08-05	2024-08-04
Narda	Attenuator	10dB	010	2023-08-15	2024-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-11	011	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-12	012	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-13	013	2023-05-23	2024-05-22
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048/027	2023-05-23	2024-05-22
Narda	Attenuator	20dB	020	2023-08-15	2024-08-14
Anritsu	Power Sensor	MA24418A	12621	2023-09-27	2024-09-26
HP	RF cable	5061-5458	N/A	N/A	N/A

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

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Not Applicable (See Note)
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

Note: The EUT is powered by battery.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 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 Compliant with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. 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.

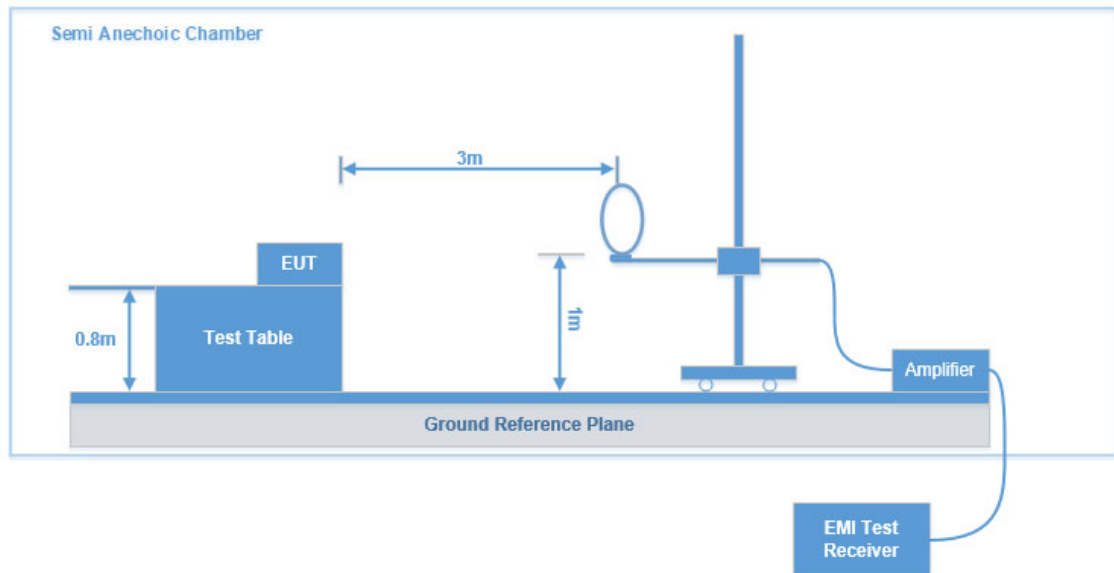
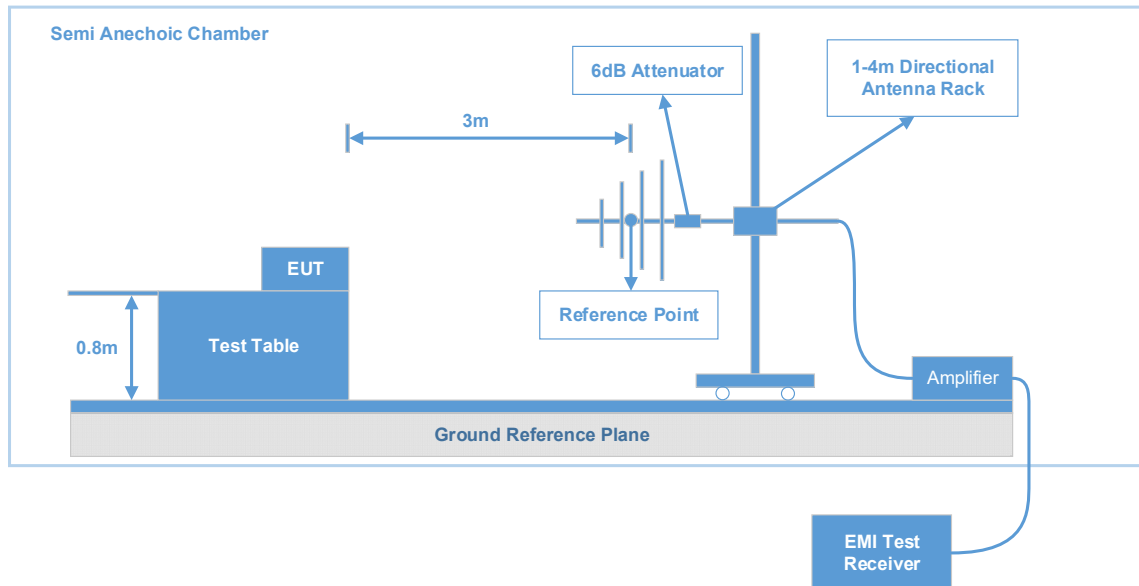
Antenna Connector Construction

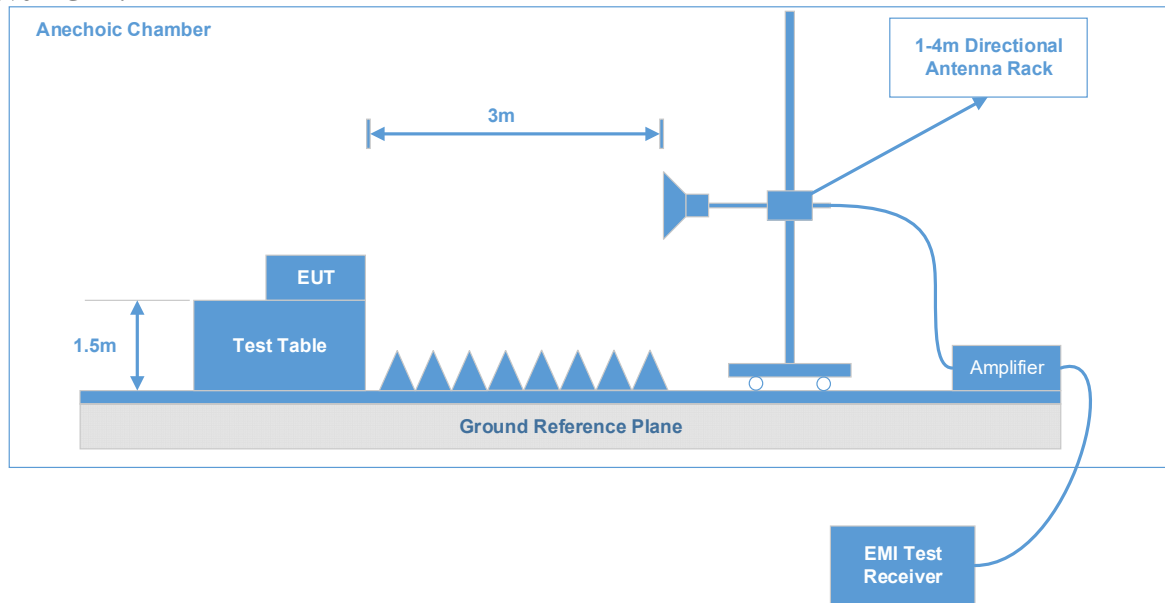
The EUT has an FPC Antenna for Wi-Fi and the antenna gain is 2.04 dBi, the antenna was permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

Conclusion: Compliant

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS**Applicable Standard**

FCC §15.247 (d); §15.209; §15.205;

Test System Setup**9 kHz-30MHz:****30MHz~1GHz:**

Above 1 GHz:

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

EMI Test Receiver Setup

The system was investigated from 9 kHz to 25 GHz.

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

Frequency Range	RBW	VBW	IF B/W	Detector
9 kHz - 150 kHz	200 Hz	1 kHz	200 Hz	QP/Average
150 kHz - 30 MHz	9 kHz	30 kHz	9 kHz	QP/ Average
30 MHz - 1000 MHz	100 kHz	300 kHz	/	Peak
	/	/	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	Peak
	1MHz	3 MHz	/	Average

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

Test Procedure

According to ANSI C63.10-2013 clause 6.5, 6.6 and 6.7.

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

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz - 1 GHz, peak and Average detection mode for frequencies above 1 GHz.

For 9 kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

Corrected Amplitude & Margin Calculation

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

Corrected Amplitude (dBμV/m) = Meter Reading (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

Note: The QuasiPeak (dBμV/m), MaxPeak (dBμV/m), Average (dBμV/m) which shown in the data table are all Corrected Amplitude.

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

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data: See Appendix

FCC §15.247(a) (2) - 6 DB EMISSION BANDWIDTH

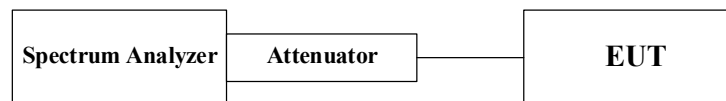
Applicable Standard

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

According to ANSI C63.10-2013 sub-clause 11.8.1

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 * \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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.



Test Data: See Appendix

FCC §15.247(b) (3) - 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, Compliant 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

According to ANSI C63.10-2013 sub-clause 11.9.1.3

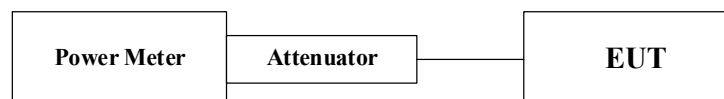
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

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.

According to ANSI C63.10-2013 Section 11.9.2.3.2

Method AVGPM-G is a measurement using a gated RF average power meter.

Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.



Test Data: See Appendix

F CC §15.247(d) - BAND EDGE

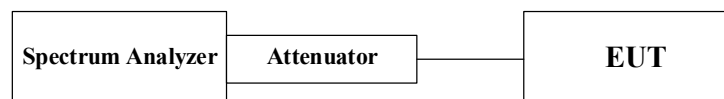
Applicable Standard

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 Compliant 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

According to ANSI C63.10-2013 sub-clause 6.10.

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.



Test Data: See Appendix

F CC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

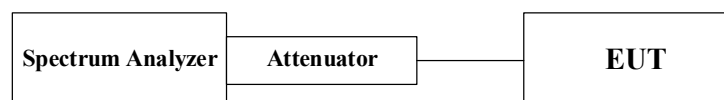
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of 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

According to ANSI C63.10-2013 sub-clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine Compliant, and it is optional if the maximum conducted (average) output power was used to determine Compliant:

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 Data: See Appendix

EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT C - TEST SETUP PHOTOGRAPHS.

Appendix - TEST DATA

Environmental Conditions & Test Information

Test Item:	SPURIOUS EMISSIONS				
	9kHz-30MHz	30 MHz - 1 GHz	1 GHz - 18GHz		18 GHz - 25 GHz
Test Date:	2024-02-22	2024-04-16	2024-02-20	2024-02-20	2024-04-19
Temperature:	24.0 °C	21.4 °C	20.3°C	20.3°C	20.3°C
Relative Humidity:	45 %	66 %	52 %	52 %	52 %
ATM Pressure:	102.6kPa	101.3kPa	101.5kPa	101.5kPa	101.5kPa
Test Result:	Pass	Pass	Pass	Pass	Pass
Test Engineer:	Loki Shi	Leah Li	Peter Wang	Klein Zhu	Peter Wang

Test Item:	6 DB EMISSION BANDWIDTH	BAND EDGE	POWER SPECTRAL DENSITY
Test Date:	2024-02-01	2024-02-01	2024-02-01
Temperature:	16.0 °C	16.0 °C	16.0 °C
Relative Humidity:	48 %	48 %	48 %
ATM Pressure:	102.5kPa	102.5kPa	102.5kPa
Test Result:	Pass	Pass	Pass
Test Engineer:	Jay Liu	Jay Liu	Jay Liu

SPURIOUS EMISSIONS

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

9 kHz-30 MHz (Transmitting in maximum output power mode 802.11g mode high channel)

The amplitude of spurious emissions attenuated more than 20 dB below the limit was not be recorded.

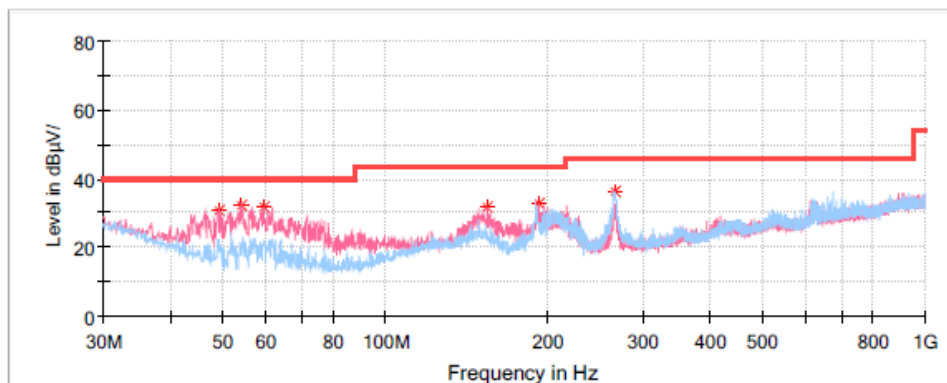
30 MHz - 1 GHz:

EUT operation mode: Transmitting in maximum output power mode 802.11g mode

Low channel: 2412 MHz

Common Information

Project No:	RSHA231228001
EUT Model:	OB-1000-64LB
Test Mode:	2.4G WIFI
Standard:	FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Temperature:	21.4°C
Humidity:	66%
Barometric Pressure:	101.3kPa
Test Engineer:	Leah Li
Test Date:	2024/4/16



Critical Freqs

Frequency (MHz)	Corrected Amplitude QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
49.278750	30.71	40.00	9.29	V	-16.3
54.007500	32.02	40.00	7.98	V	-17.0
59.463750	31.91	40.00	8.09	V	-17.5
154.038750	31.65	43.50	11.85	V	-12.3
192.111250	32.46	43.50	11.04	V	-12.8
266.922500	36.11	46.00	9.89	H	-11.9

Middle channel: 2437MHz

Common Information

Project No:RSHA231228001

EUT Model:OB-1000-64LB

Test Mode:2.4G WIFI

Standard:FCC Part 15.247

Test Equipment:ESCI、JB3、310N

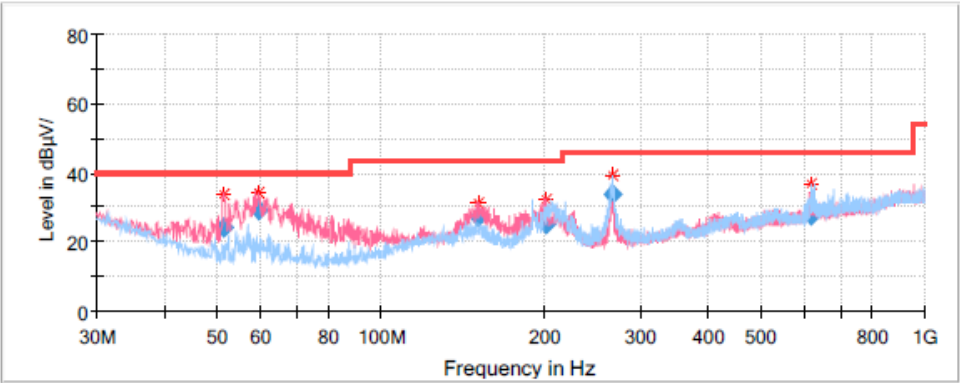
Temperature:21.4℃

Humidity:66%

Barometric Pressure:101.3kPa

Test Engineer:Leah Li

Test Date:2024/4/16



Final Result

Frequency (MHz)	Corrected Amplitude QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
51.340000	24.23	40.00	15.77	V	-16.9
59.580000	28.94	40.00	11.06	V	-17.5
150.640000	26.92	43.50	16.58	V	-12.1
201.320000	25.15	43.50	18.35	V	-12.6
267.040000	33.71	46.00	12.29	H	-11.9
618.060000	27.71	46.00	18.29	H	-4.4

High Channel: 2462MHz

Common Information

Project No:RSHA231228001

EUT Model:OB-1000-64LB

Test Mode:2.4G WIFI

Standard:FCC Part 15.247

Test Equipment:ESCI、JB3、310N

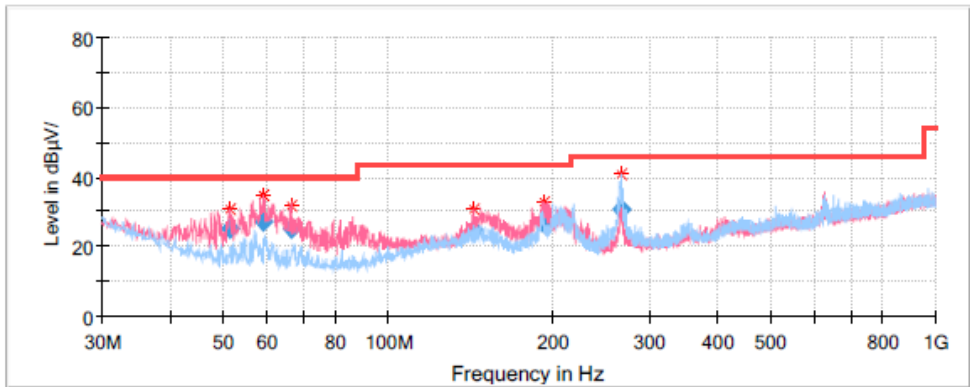
Temperature:21.4°C

Humidity:66%

Barometric Pressure:101.3kPa

Test Engineer:Leah Li

Test Date:2024/4/16



Final Result

Frequency (MHz)	Corrected Amplitude QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
51.340000	25.11	40.00	14.89	V	-16.9
59.220000	27.19	40.00	12.81	V	-17.3
66.370000	25.14	40.00	14.86	V	-17.0
143.730000	24.63	43.50	18.87	V	-11.7
192.470000	26.72	43.50	16.78	V	-12.8
266.800000	30.56	46.00	15.44	H	-11.9

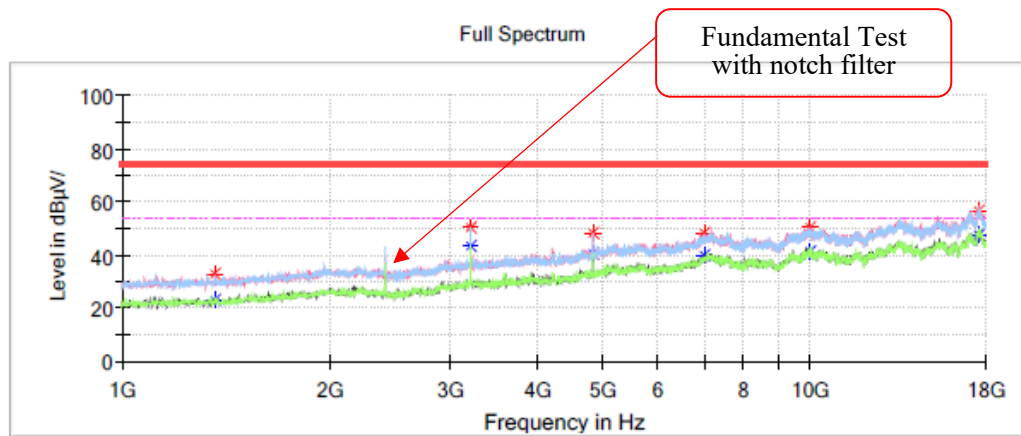
1 GHz - 18 GHz:

802.11b Mode:

Low Channel: 2412 MHz

Common Information

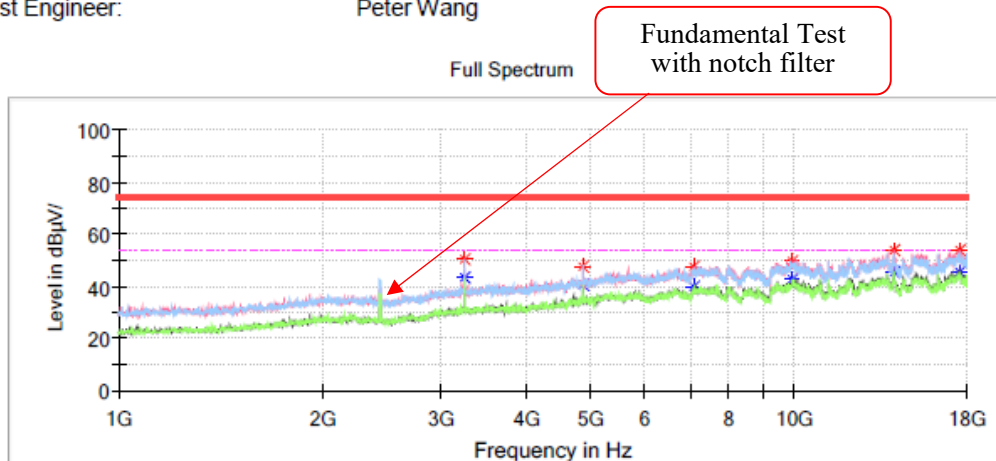
Project No.: RKSB231228001
 EUT Model: OB-1000-64LB
 Test Mode: 2.4G Wi-Fi
 Standard: FCC Part 15.247
 Test Equipment: ESU40、3115、2641-1
 Temperature: 20.3℃
 Humidity: 52%
 Atmospheric pressure: 101.5KPa
 Test Engineer: Peter Wang

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1367.200000	---	22.81	54.00	31.19	H	-14.4
1367.200000	32.60	---	74.00	41.40	H	-14.4
3215.100000	---	43.34	54.00	10.66	H	-7.2
3215.100000	50.57	---	74.00	23.43	H	-7.2
4823.300000	---	40.56	54.00	13.44	V	-2.1
4823.300000	48.26	---	74.00	25.74	V	-2.1
7014.600000	---	39.71	54.00	14.29	V	3.8
7014.600000	48.03	---	74.00	25.97	V	3.8
9970.900000	---	40.93	54.00	13.07	H	7.7
9970.900000	50.02	---	74.00	23.98	H	7.7
17573.300000	---	47.77	54.00	6.23	V	13.3
17575.000000	56.62	---	74.00	17.38	V	13.3

Middle Channel: 2437 MHz**Common Information**

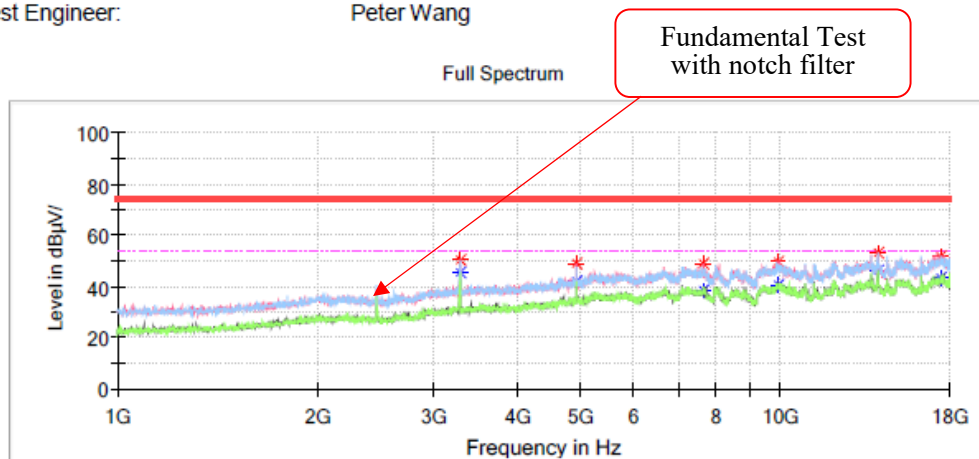
Project No.: RKS231228001
 EUT Model: OB-1000-64LB
 Test Mode: 2.4G Wi-Fi
 Standard: FCC Part 15.247
 Test Equipment: ESU40、3115、2641-1
 Temperature: 20.3℃
 Humidity: 52%
 Atmospheric pressure: 101.5KPa
 Test Engineer: Peter Wang

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
3249.100000	---	43.05	54.00	10.95	H	-7.1
3249.100000	50.44	---	74.00	23.56	H	-7.1
4872.600000	47.53	---	74.00	26.47	H	-1.9
4872.600000	---	40.56	54.00	13.44	H	-1.9
7096.200000	---	39.51	54.00	14.49	V	3.9
7096.200000	47.44	---	74.00	26.56	V	3.9
9913.100000	---	42.32	54.00	11.68	V	7.5
9913.100000	49.71	---	74.00	24.29	V	7.5
14003.300000	---	45.77	54.00	8.23	H	10.5
14003.300000	53.63	---	74.00	20.37	H	10.5
17576.700000	---	45.44	54.00	8.56	V	13.3
17576.700000	54.07	---	74.00	19.93	V	13.3

High Channel: 2462 MHz**Common Information**

Project No.: RKS231228001
 EUT Model: OB-1000-64LB
 Test Mode: 2.4G Wi-Fi
 Standard: FCC Part 15.247
 Test Equipment: ESU40, 3115, 2641-1
 Temperature: 20.3°C
 Humidity: 52%
 Atmospheric pressure: 101.5KPa
 Test Engineer: Peter Wang

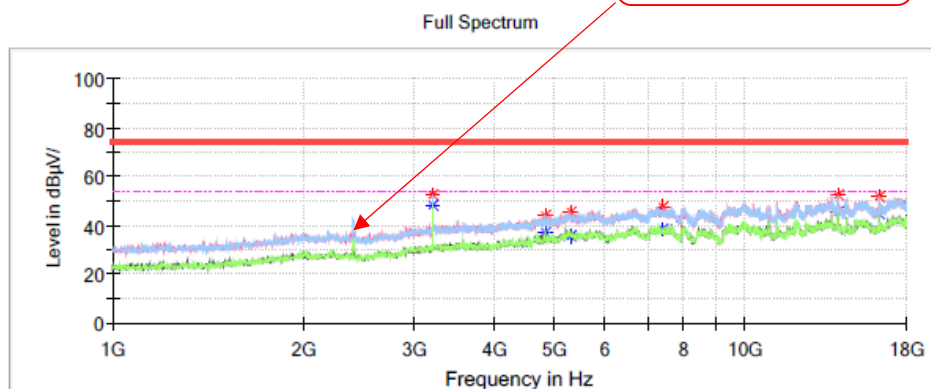
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
3281.400000	---	45.39	54.00	8.61	H	-6.9
3281.400000	50.37	---	74.00	23.63	H	-6.9
4923.600000	---	41.72	54.00	12.28	H	-1.6
4923.600000	48.72	---	74.00	25.28	H	-1.6
7650.400000	---	38.62	54.00	15.38	H	4.1
7650.400000	48.83	---	74.00	25.17	H	4.1
9918.200000	---	40.54	54.00	13.46	V	7.6
9918.200000	49.40	---	74.00	24.60	V	7.6
14001.600000	---	45.98	54.00	8.02	H	10.5
14001.600000	53.43	---	74.00	20.57	H	10.5
17461.100000	---	43.02	54.00	10.98	H	13.5
17461.100000	52.08	---	74.00	21.92	H	13.5

802.11g Mode:**Low Channel: 2412 MHz****Common Information**

Project No.: RKS231228001
 EUT Model: OB-1000-64LB
 Test Mode: 2.4G Wi-Fi
 Standard: FCC Part 15.247
 Test Equipment: ESU40、3115、2641-1
 Temperature: 20.3℃
 Humidity: 52%
 Atmospheric pressure: 101.5KPa
 Test Engineer: Peter Wang

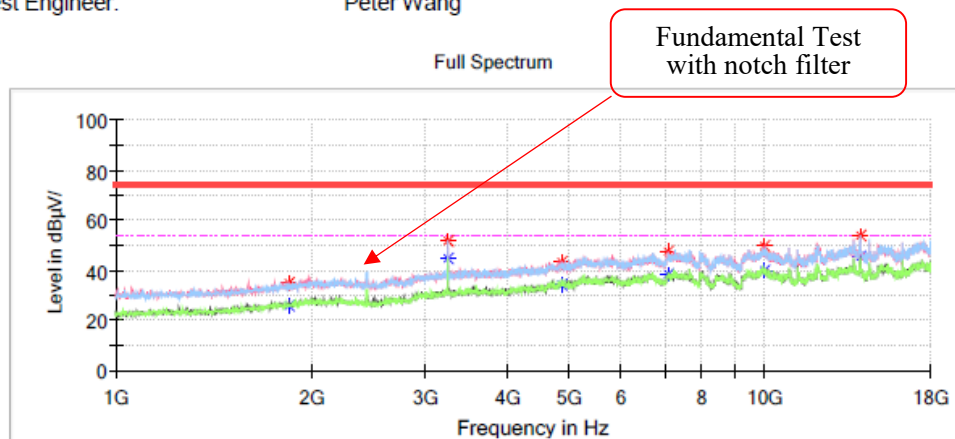
Fundamental Test
with notch filter

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
3215.100000	---	47.92	54.00	6.08	H	-7.2
3215.100000	52.69	---	74.00	21.31	H	-7.2
4825.000000	---	37.16	54.00	16.84	H	-2.1
4825.000000	44.16	---	74.00	29.84	H	-2.1
5306.100000	---	35.93	54.00	18.07	V	0.0
5306.100000	45.74	---	74.00	28.26	V	0.0
7403.900000	---	38.27	54.00	15.73	H	4.1
7403.900000	47.49	---	74.00	26.51	H	4.1
14001.600000	---	45.35	54.00	8.65	V	10.5
14001.600000	52.40	---	74.00	21.60	V	10.5
16301.700000	---	45.10	54.00	8.90	V	9.7
16301.700000	51.98	---	74.00	22.02	V	9.7

Middle Channel: 2437 MHz**Common Information**

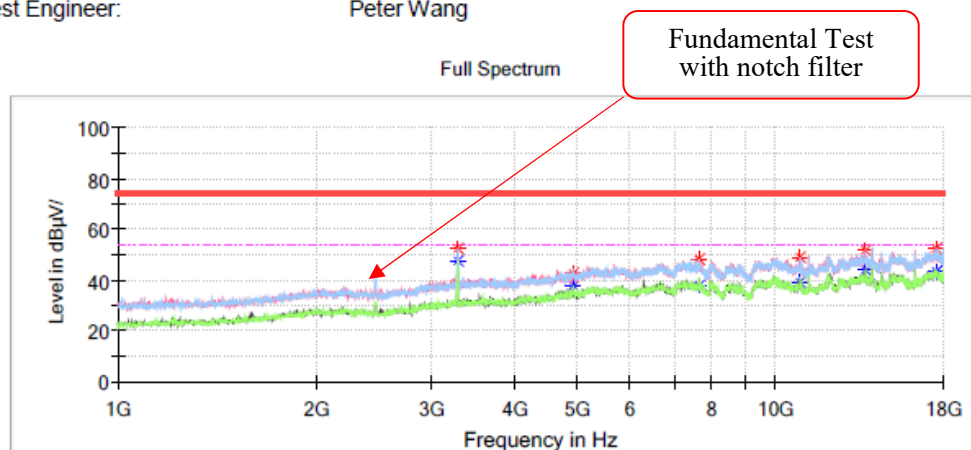
Project No.: RKS231228001
 EUT Model: OB-1000-64LB
 Test Mode: 2.4G Wi-Fi
 Standard: FCC Part 15.247
 Test Equipment: ESU40、3115、2641-1
 Temperature: 20.3℃
 Humidity: 52%
 Atmospheric pressure: 101.5KPa
 Test Engineer: Peter Wang

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1843.200000	---	26.13	54.00	27.87	H	-11.6
1843.200000	35.20	---	74.00	38.80	H	-11.6
3249.100000	51.70	---	74.00	22.30	H	-7.1
3249.100000	---	44.46	54.00	9.54	H	-7.1
4860.700000	43.39	---	74.00	30.61	V	-1.9
4860.700000	---	34.61	54.00	19.39	V	-1.9
7099.600000	---	38.78	54.00	15.22	V	3.9
7099.600000	47.37	---	74.00	26.63	V	3.9
9974.300000	---	39.69	54.00	14.31	V	7.7
9974.300000	49.85	---	74.00	24.15	V	7.7
14001.600000	---	45.41	54.00	8.59	V	10.5
14001.600000	53.89	---	74.00	20.11	V	10.5

High Channel: 2462 MHz**Common Information**

Project No.: RKS231228001
 EUT Model: OB-1000-64LB
 Test Mode: 2.4G Wi-Fi
 Standard: FCC Part 15.247
 Test Equipment: ESU40、3115、2641-1
 Temperature: 20.3℃
 Humidity: 52%
 Atmospheric pressure: 101.5KPa
 Test Engineer: Peter Wang

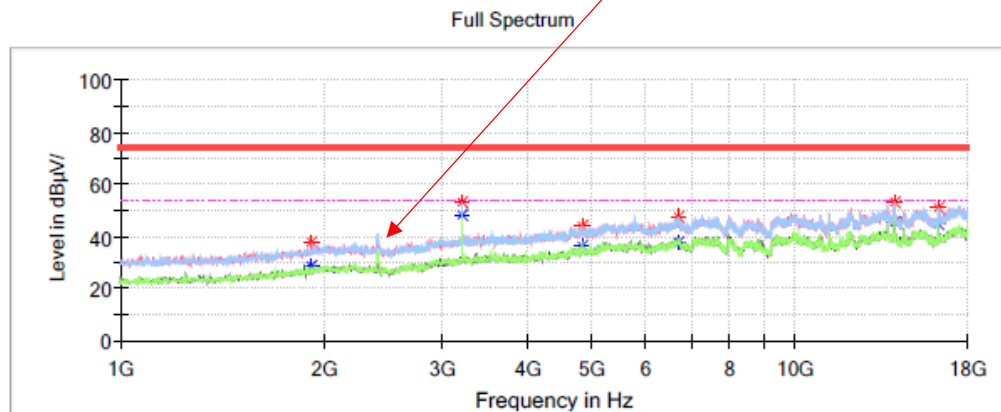
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
3281.400000	52.58	---	74.00	21.42	H	-6.9
3281.400000	---	47.21	54.00	6.79	H	-6.9
4923.600000	42.54	---	74.00	31.46	H	-1.6
4923.600000	---	37.55	54.00	16.45	H	-1.6
7636.800000	---	38.07	54.00	15.93	V	4.1
7636.800000	48.09	---	74.00	25.91	V	4.1
10860.000000	---	39.42	54.00	14.58	V	6.6
10860.000000	48.75	---	74.00	25.25	V	6.6
13676.900000	---	43.98	54.00	10.02	V	10.8
13676.900000	51.79	---	74.00	22.21	V	10.8
17568.200000	---	43.03	54.00	10.97	V	13.3
17568.200000	52.25	---	74.00	21.75	V	13.3

802.11n - HT20 Mode:**Low Channel: 2412 MHz****Common Information**

Project No.: RKS231228001
 EUT Model: OB-1000-64LB
 Test Mode: 2.4G Wi-Fi
 Standard: FCC Part 15.247
 Test Equipment: ESU40, 3115, 2641-1
 Temperature: 20.3℃
 Humidity: 52%
 Atmospheric pressure: 101.5KPa
 Test Engineer: Peter Wang

Fundamental Test
with notch filter

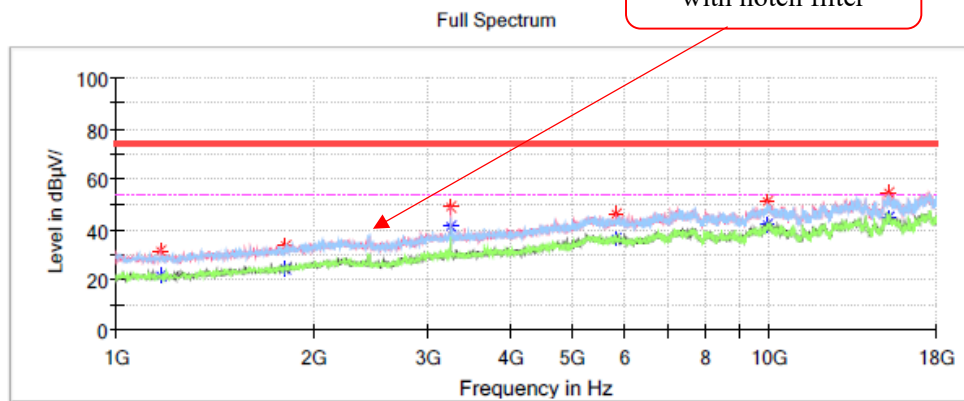
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1918.000000	---	28.48	54.00	25.52	V	-11.1
1918.000000	37.84	---	74.00	36.16	V	-11.1
3215.100000	52.92	---	74.00	21.08	H	-7.2
3215.100000	---	47.96	54.00	6.04	H	-7.2
4833.500000	---	36.31	54.00	17.69	H	-2.1
4833.500000	44.22	---	74.00	29.78	H	-2.1
6713.700000	---	37.88	54.00	16.12	H	2.1
6713.700000	47.33	---	74.00	26.67	H	2.1
14001.600000	52.95	---	74.00	21.05	H	10.5
14001.600000	---	45.14	54.00	8.86	H	10.5
16301.700000	---	44.73	54.00	9.27	V	9.7
16301.700000	51.31	---	74.00	22.69	V	9.7

Middle Channel: 2437 MHz**Common Information**

Project No.: RKS231228001
 EUT Model: OB-1000-64LB
 Test Mode: 2.4G Wi-Fi
 Standard: FCC Part 15.247
 Test Equipment: ESU40, 3115, 2641-1
 Temperature: 20.3°C
 Humidity: 52%
 Atmospheric pressure: 101.5KPa
 Test Engineer: Peter Wang

Fundamental Test
with notch filter

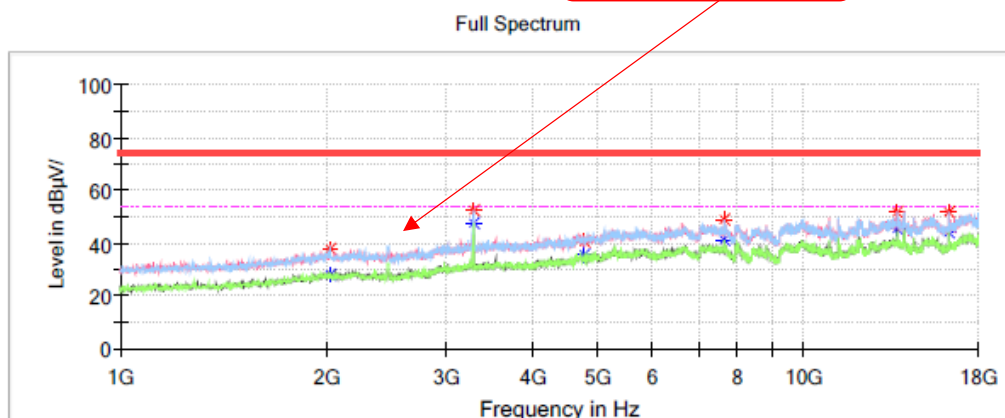
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1170.000000	---	21.70	54.00	32.30	V	-15.0
1170.000000	31.42	---	74.00	42.58	V	-15.0
1816.000000	---	24.59	54.00	29.41	V	-11.8
1816.000000	33.76	---	74.00	40.24	V	-11.8
3249.100000	---	41.59	54.00	12.41	V	-7.1
3249.100000	49.19	---	74.00	24.81	V	-7.1
5824.600000	---	36.65	54.00	17.35	H	0.4
5824.600000	46.44	---	74.00	27.56	H	0.4
9943.700000	---	41.87	54.00	12.13	V	7.6
9943.700000	50.96	---	74.00	23.04	V	7.6
15217.100000	---	44.68	54.00	9.32	V	10.8
15217.100000	54.36	---	74.00	19.64	V	10.8

High Channel: 2462 MHz**Common Information**

Project No.: RKS231228001
 EUT Model: OB-1000-64LB
 Test Mode: 2.4G Wi-Fi
 Standard: FCC Part 15.247
 Test Equipment: ESU40, 3115, 2641-1
 Temperature: 20.3°C
 Humidity: 52%
 Atmospheric pressure: 101.5KPa
 Test Engineer: Peter Wang

Fundamental Test
with notch filter

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2023.400000	---	27.81	54.00	26.19	H	-10.5
2023.400000	38.04	---	74.00	35.96	H	-10.5
3281.400000	---	47.66	54.00	6.34	H	-6.9
3281.400000	52.66	---	74.00	21.34	H	-6.9
4777.400000	40.68	---	74.00	33.32	H	-2.4
4777.400000	---	36.01	54.00	17.99	H	-2.4
7638.500000	---	41.03	54.00	12.97	H	4.1
7638.500000	48.67	---	74.00	25.33	H	4.1
13676.900000	---	45.12	54.00	8.88	V	10.8
13676.900000	51.72	---	74.00	22.28	V	10.8
16301.700000	---	44.05	54.00	9.95	V	9.7
16301.700000	51.45	---	74.00	22.55	V	9.7

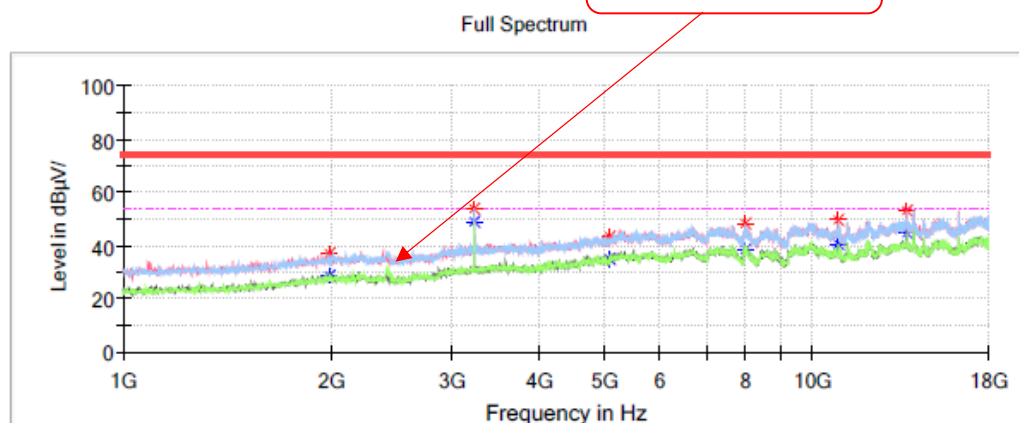
802.11n - HT40 Mode:

Low Channel: 2422 MHz

Common Information

Project No.: RKS231228001
 EUT Model: OB-1000-64LB
 Test Mode: 2.4G Wi-Fi
 Standard: FCC Part 15.247
 Test Equipment: ESU40、3115、2641-1
 Temperature: 20.3℃
 Humidity: 52%
 Atmospheric pressure: 101.5KPa
 Test Engineer: Peter Wang

Fundamental Test
with notch filter

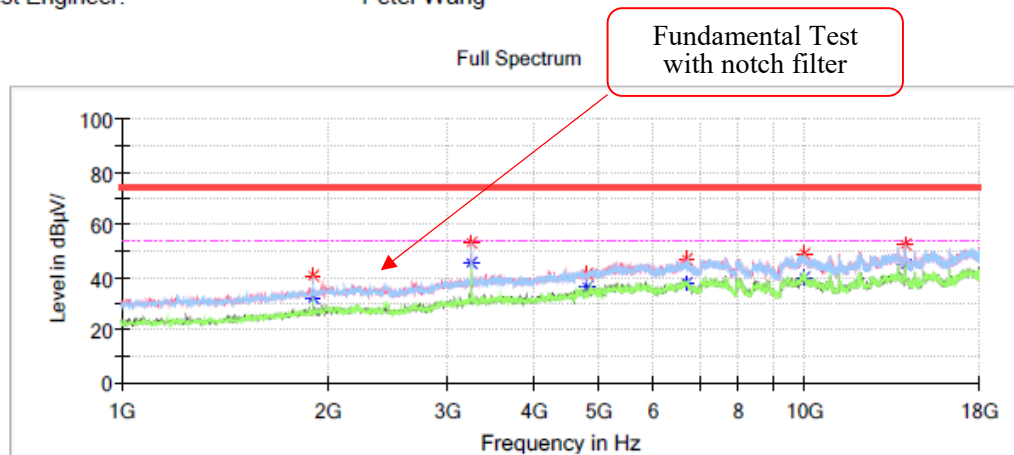


Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1989.400000	---	28.72	54.00	25.28	V	-10.6
1989.400000	37.33	---	74.00	36.67	V	-10.6
3228.700000	---	48.65	54.00	5.35	H	-7.1
3228.700000	54.09	---	74.00	19.91	H	-7.1
5074.900000	---	35.29	54.00	18.71	V	-0.9
5074.900000	43.06	---	74.00	30.94	V	-0.9
7995.500000	---	38.56	54.00	15.44	V	3.8
7995.500000	48.13	---	74.00	25.87	V	3.8
10861.700000	---	40.60	54.00	13.40	H	6.6
10861.700000	49.76	---	74.00	24.24	H	6.6
13676.900000	---	44.46	54.00	9.54	V	10.8
13676.900000	53.10	---	74.00	20.90	V	10.8

Middle Channel: 2437 MHz**Common Information**

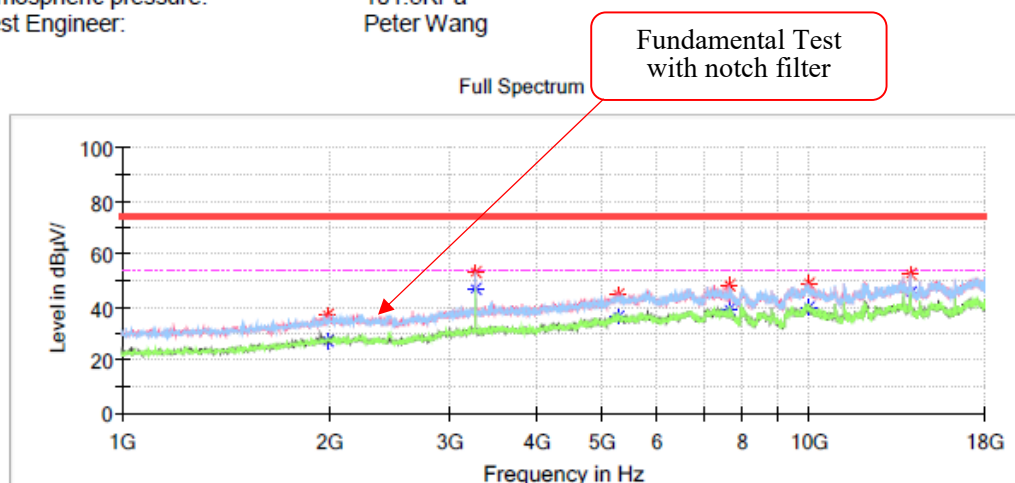
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 EUT Model: OB-1000-64LB
 Test Mode: 2.4G Wi-Fi
 Standard: FCC Part 15.247
 Test Equipment: ESU40、3115、2641-1
 Temperature: 20.3℃
 Humidity: 52%
 Atmospheric pressure: 101.5KPa
 Test Engineer: Peter Wang

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1902.700000	---	32.48	54.00	21.52	H	-11.2
1902.700000	40.50	---	74.00	33.50	H	-11.2
3249.100000	---	45.14	54.00	8.86	H	-7.1
3249.100000	53.47	---	74.00	20.53	H	-7.1
4814.800000	41.34	---	74.00	32.66	V	-2.2
4814.800000	---	36.35	54.00	17.65	V	-2.2
6700.100000	---	37.84	54.00	16.16	V	2.0
6700.100000	46.83	---	74.00	27.17	V	2.0
9991.300000	---	39.86	54.00	14.14	H	7.8
9991.300000	49.07	---	74.00	24.93	H	7.8
14001.600000	---	44.58	54.00	9.42	H	10.5
14001.600000	52.34	---	74.00	21.66	H	10.5

High Channel: 2452 MHz**Common Information**

Project No.: RKS231228001
 EUT Model: OB-1000-64LB
 Test Mode: 2.4G Wi-Fi
 Standard: FCC Part 15.247
 Test Equipment: ESU40、3115、2641-1
 Temperature: 20.3℃
 Humidity: 52%
 Atmospheric pressure: 101.5KPa
 Test Engineer: Peter Wang

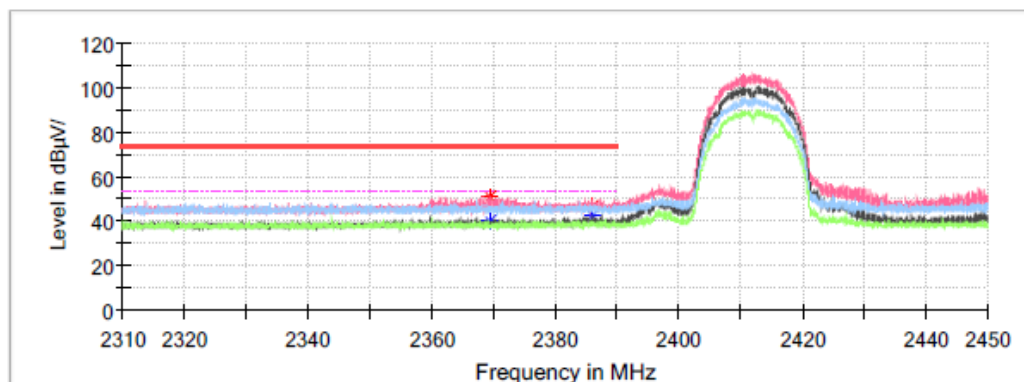
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1989.400000	---	27.53	54.00	26.47	V	-10.6
1989.400000	36.87	---	74.00	37.13	V	-10.6
3267.800000	---	46.72	54.00	7.28	H	-7.0
3267.800000	53.04	---	74.00	20.96	H	-7.0
5287.400000	---	36.49	54.00	17.51	H	0.0
5287.400000	44.78	---	74.00	29.22	H	0.0
7641.900000	---	39.28	54.00	14.72	H	4.1
7641.900000	47.92	---	74.00	26.08	H	4.1
9976.000000	---	39.53	54.00	14.47	V	7.7
9976.000000	49.29	---	74.00	24.71	V	7.7
14001.600000	---	45.35	54.00	8.65	H	10.5
14001.600000	52.42	---	74.00	21.58	H	10.5

Band Edge:**802.11b Mode Left Side****Common Information**

Project No.: RSHA231228001
EUT Model: OB-1000-64LB
Test Mode: 2.4G WIFI
Standard: FCC Part 15.247
Test Equipment: ESU40, 3115, 2641-1
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 101.5KPa
Test Engineer: Klein Zhu

Full Spectrum

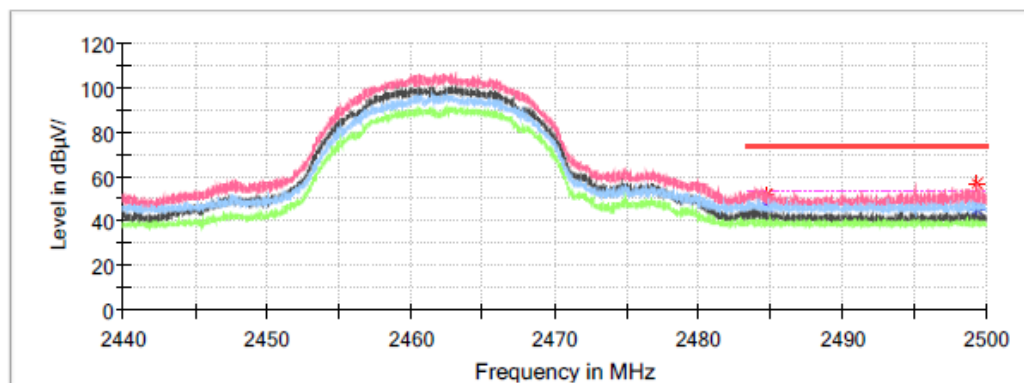
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2369.472000	---	40.05	54.00	13.95	V	0.0
2369.472000	51.54	---	74.00	22.46	V	0.0
2385.964000	---	42.53	54.00	11.47	V	0.1
2385.964000	47.06	---	74.00	26.94	V	0.1

802.11b Mode Right Side**Common Information**

Project No.: RSHA231228001
EUT Model: OB-1000-64LB
Test Mode: 2.4G WIFI
Standard: FCC Part 15.247
Test Equipment: ESU40, 3115, 2641-1
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 101.5KPa
Test Engineer: Klein Zhu

Full Spectrum

**Critical Freqs**

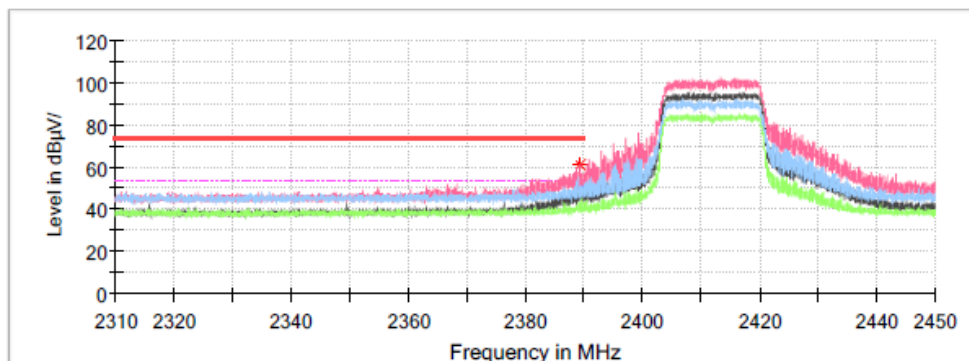
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2484.742000	52.35	---	74.00	21.65	V	0.2
2484.742000	---	46.98	54.00	7.02	V	0.2
2499.400000	57.44	---	74.00	16.56	V	0.2
2499.400000	---	45.26	54.00	8.74	V	0.2

802.11g Mode Left Side

Common Information

Project No.: RSHA231228001
EUT Model: OB-1000-64LB
Test Mode: 2.4G WIFI
Standard: FCC Part 15.247
Test Equipment: ESU40, 3115, 2641-1
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 101.5KPa
Test Engineer: Klein Zhu

Full Spectrum



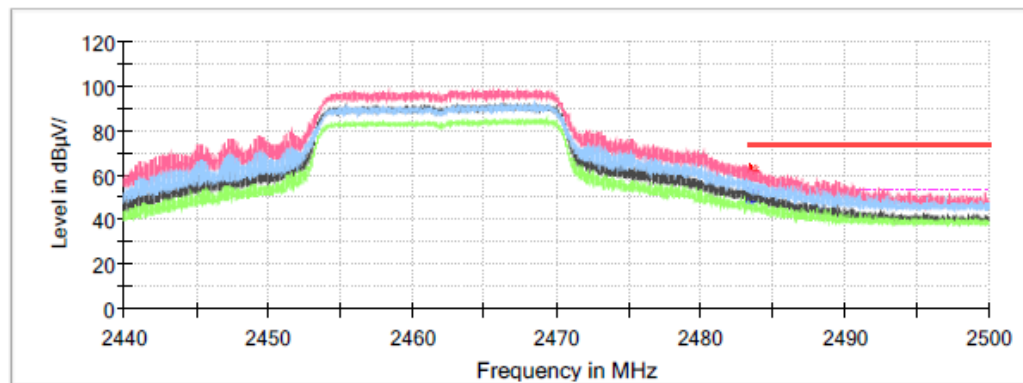
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.338000	---	50.24	54.00	3.76	V	0.1
2389.338000	61.03	---	74.00	12.97	V	0.1

802.11g Mode Right Side**Common Information**

Project No.: RSHA231228001
EUT Model: OB-1000-64LB
Test Mode: 2.4G WIFI
Standard: FCC Part 15.247
Test Equipment: ESU40, 3115, 2641-1
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 101.5KPa
Test Engineer: Klein Zhu

Full Spectrum

**Critical Freqs**

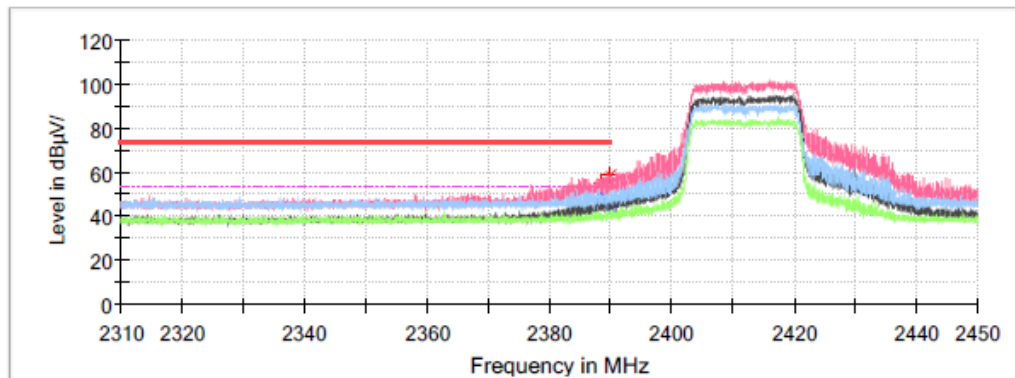
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.512000	62.45	---	74.00	11.55	V	0.2
2483.512000	---	48.78	54.00	5.22	V	0.2
2483.590000	60.87	---	74.00	13.13	V	0.2
2483.590000	---	52.77	54.00	1.23	V	0.2

802.11n - HT20 Mode Left Side

Common Information

Project No.: RSHA231228001
EUT Model: OB-1000-64LB
Test Mode: 2.4G WIFI
Standard: FCC Part 15.247
Test Equipment: ESU40, 3115, 2641-1
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 101.5KPa
Test Engineer: Klein Zhu

Full Spectrum



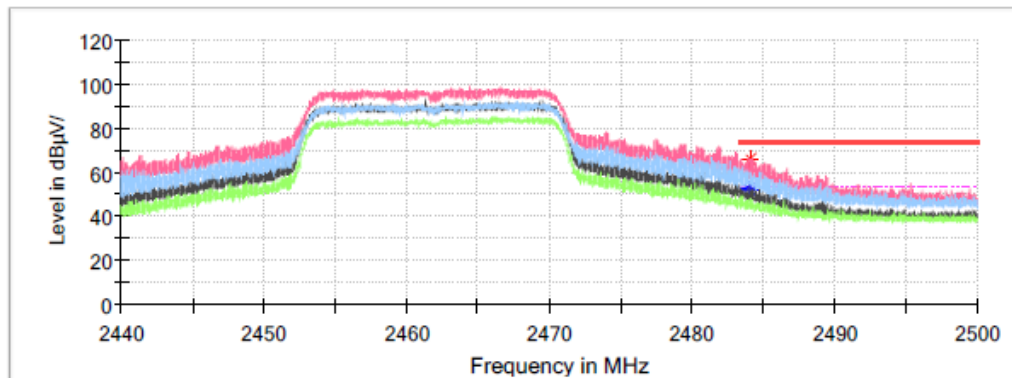
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2388.540000	55.03	---	74.00	18.97	V	0.1
2388.540000	---	48.58	54.00	5.42	V	0.1
2389.884000	58.79	---	74.00	15.21	V	0.1
2389.884000	---	44.78	54.00	9.22	V	0.1

802.11n - HT20 Mode Right Side**Common Information**

Project No.: RSHA231228001
EUT Model: OB-1000-64LB
Test Mode: 2.4G WIFI
Standard: FCC Part 15.247
Test Equipment: ESU40, 3115, 2641-1
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 101.5KPa
Test Engineer: Klein Zhu

Full Spectrum

**Critical Freqs**

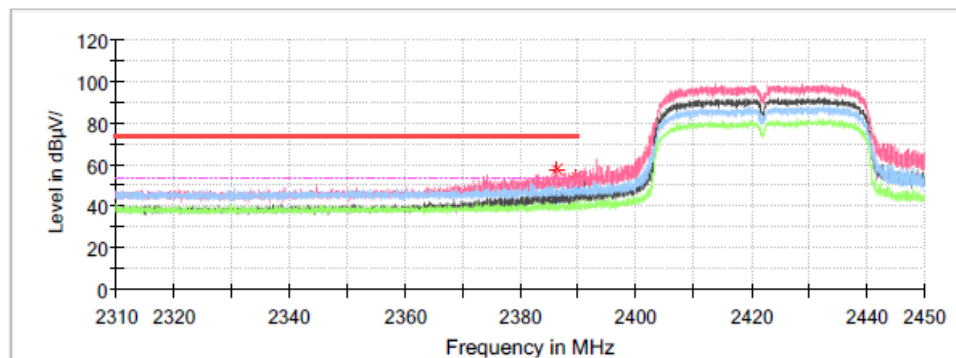
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2484.016000	---	53.10	54.00	0.90	V	0.2
2484.016000	61.65	---	74.00	12.35	V	0.2
2484.082000	---	52.10	54.00	1.90	V	0.2
2484.082000	66.55	---	74.00	7.45	V	0.2

802.11n - HT40 Mode Left Side

Common Information

Project No.: RSHA231228001
EUT Model: OB-1000-64LB
Test Mode: 2.4G WIFI
Standard: FCC Part 15.247
Test Equipment: ESU40, 3115, 2641-1
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 101.5KPa
Test Engineer: Klein Zhu

Full Spectrum



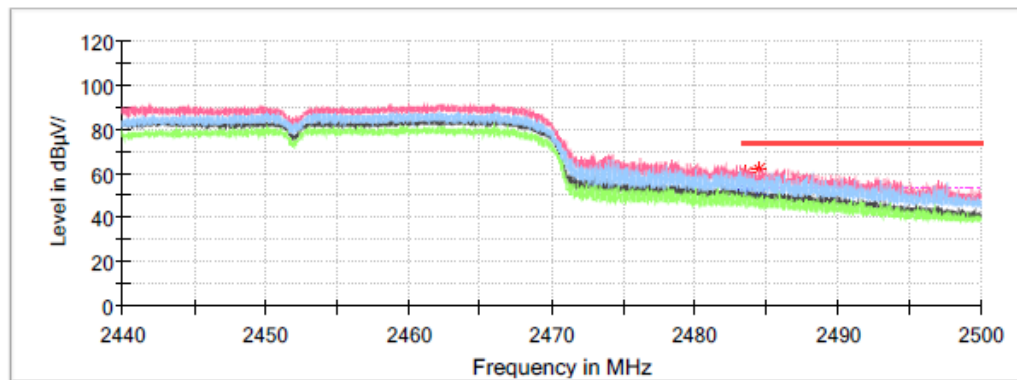
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2386.202000	57.73	---	74.00	16.27	V	0.1
2386.202000	---	44.88	54.00	9.12	V	0.1
2389.534000	54.43	---	74.00	19.57	V	0.1
2389.534000	---	47.95	54.00	6.05	V	0.1

802.11n - HT40 Mode Right Side**Common Information**

Project No.: RSHA231228001
EUT Model: OB-1000-64LB
Test Mode: 2.4G WIFI
Standard: FCC Part 15.247
Test Equipment: ESU40, 3115, 2641-1
Temperature: 20.3°C
Humidity: 52%
Atmospheric pressure: 101.5KPa
Test Engineer: Klein Zhu

Full Spectrum

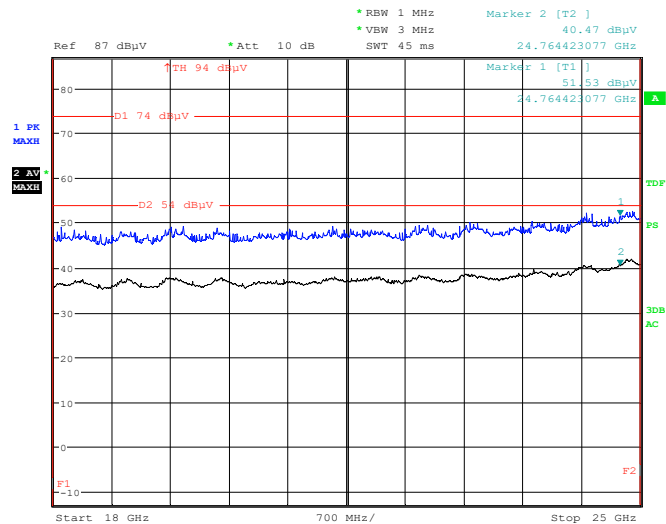
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.572000	60.69	---	74.00	13.31	V	0.2
2483.572000	---	52.64	54.00	1.36	V	0.2
2484.430000	62.51	---	74.00	11.49	V	0.2
2484.430000	---	50.01	54.00	3.99	V	0.2

18 GHz - 25 GHz:

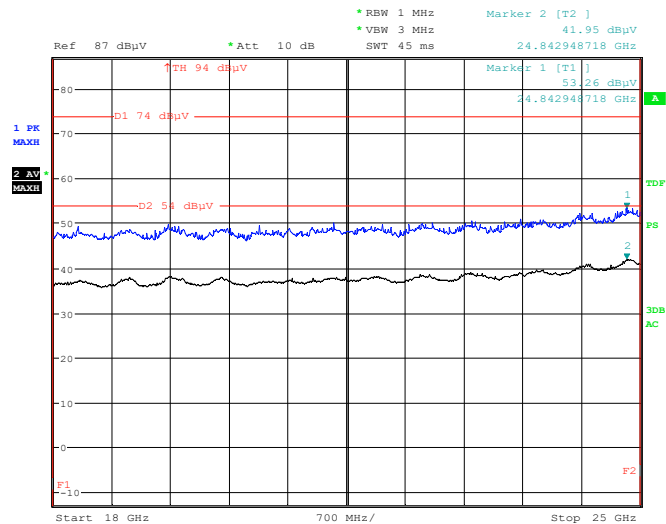
(Note: The test distance is 3m, so the limit for peak is 74 dBμV/m, Average is 54 dBμV/m)

Horizontal



Project No.: RSHA231228001 Tester: Peter Wang
Date: 19.APR.2024 09:25:30

Vertical

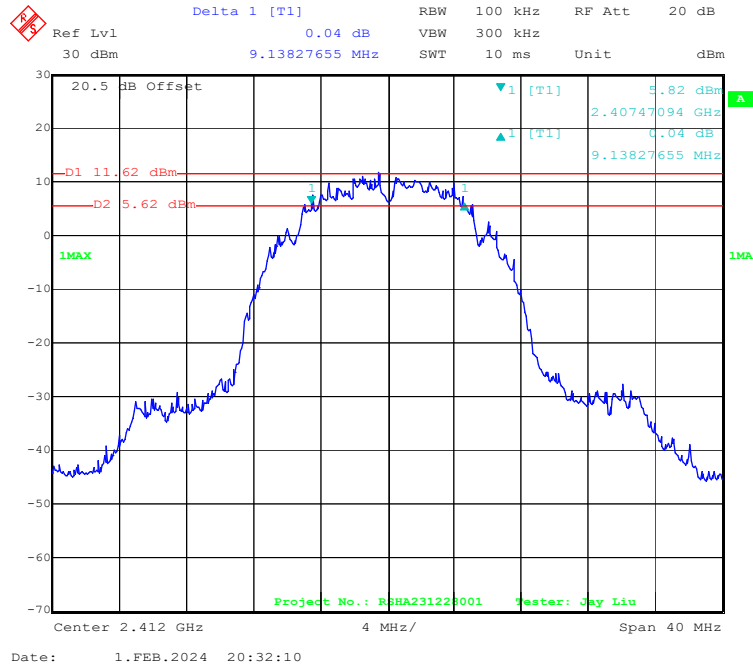


Project No.: RSHA231228001 Tester: Peter Wang
Date: 19.APR.2024 09:55:10

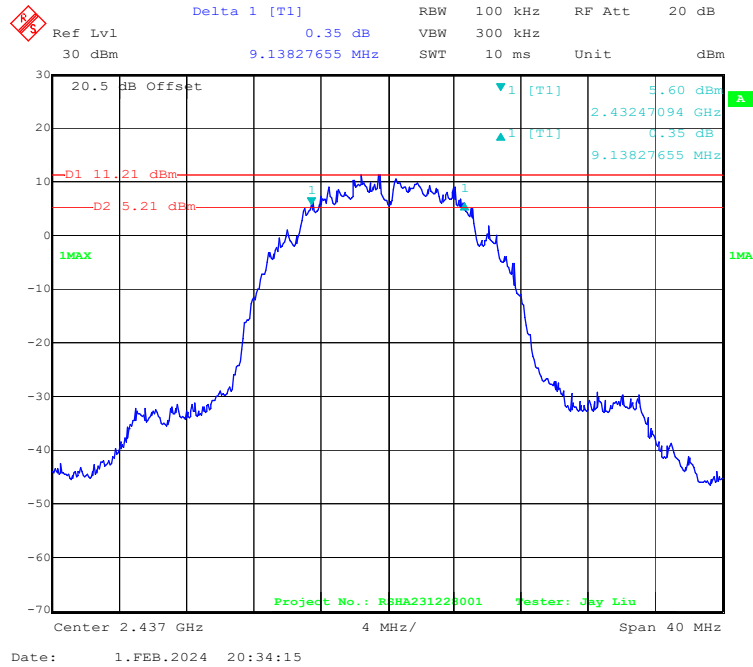
6 dB EMISSION BANDWIDTH*EUT operation mode: Transmitting*

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
802.11b Mode			
Low	2412	9.138	≥ 0.5
Middle	2437	9.138	≥ 0.5
High	2462	9.619	≥ 0.5
802.11g Mode			
Low	2412	16.593	≥ 0.5
Middle	2437	16.513	≥ 0.5
High	2462	16.593	≥ 0.5
802.11n-HT20 Mode			
Low	2412	17.635	≥ 0.5
Middle	2437	17.635	≥ 0.5
High	2462	17.555	≥ 0.5
802.11n-HT40 Mode			
Low	2422	34.148	≥ 0.5
Middle	2437	34.309	≥ 0.5
High	2452	33.828	≥ 0.5

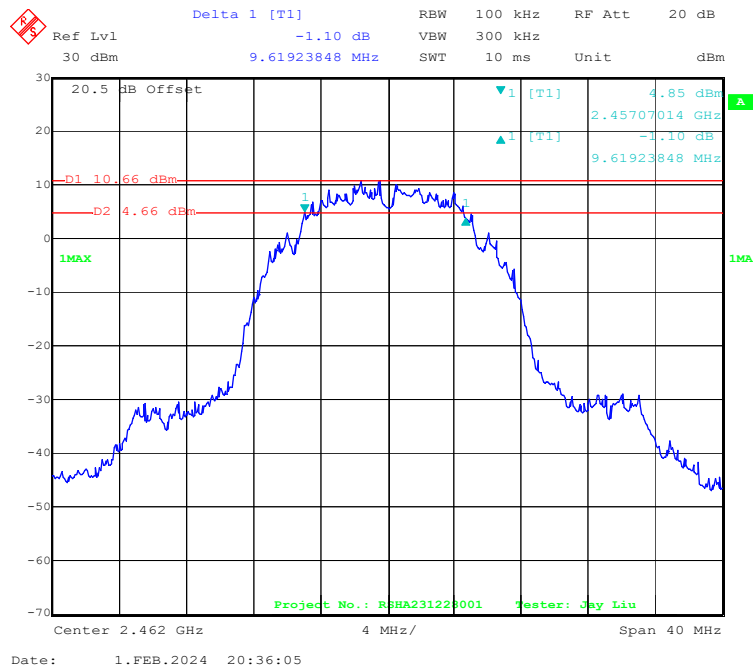
802.11b Mode Low Channel



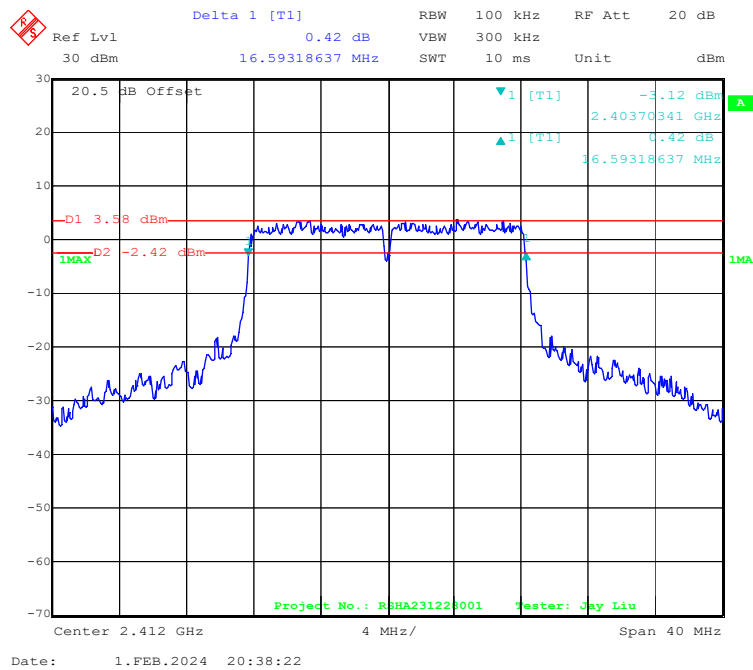
802.11b Mode Middle Channel



802.11b Mode High Channel



802.11g Mode Low Channel



Delta 1 [T1] -1.21 dB
 RBW 100 kHz RF Att 20 dB
 Ref Lvl 30 dBm VBW 300 kHz
 30 dBm 16.51302605 MHz SWT 10 ms Unit dBm

20.5 dB Offset
 1 [T1] -1.52 dBm
 2.42878357 GHz
 1 [T1] -1.21 dB
 16.51302605 MHz

D1 3.54 dBm
 D2 -2.46 dBm
 1MAX 1MA

Project No.: RSHA231228001 Tester: Jay Liu
 Center 2.437 GHz 4 MHz/ Span 40 MHz

Date: 1.FEB.2024 20:40:41

Delta 1 [T1]

Ref Lvl 0.06 dB

30 dBm 16.59318637 MHz

RBW 100 kHz RF Att 20 dB

VBW 300 kHz

SWT 10 ms Unit dBm

20.5 dB Offset

▼1 [T1] -3.80 dBm

▲1 [T1] 0.06 dB

2.45370341 GHz

16.59318637 MHz

-D1 2.87 dBm

-D2 -3.13 dBm

1MAX

Project No.: RSHA231228001

Tester: Jay Liu

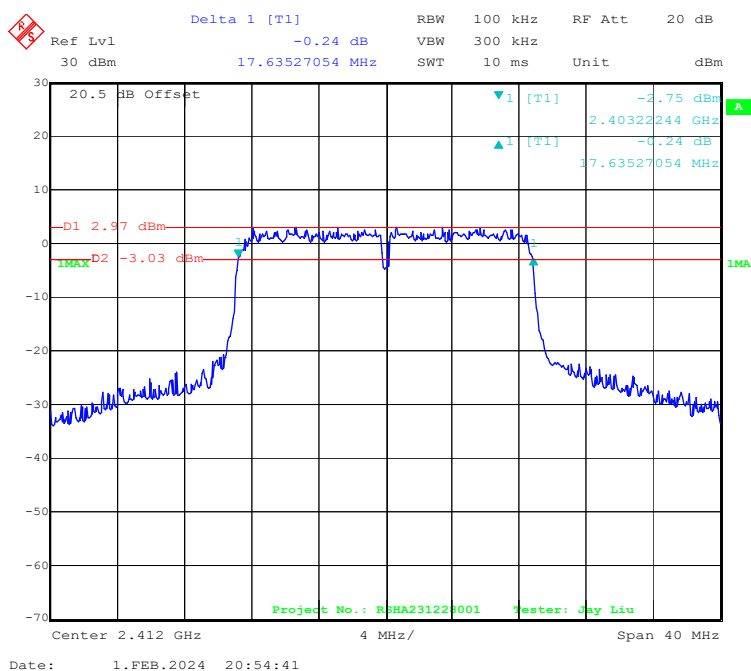
Center 2.462 GHz

4 MHz/

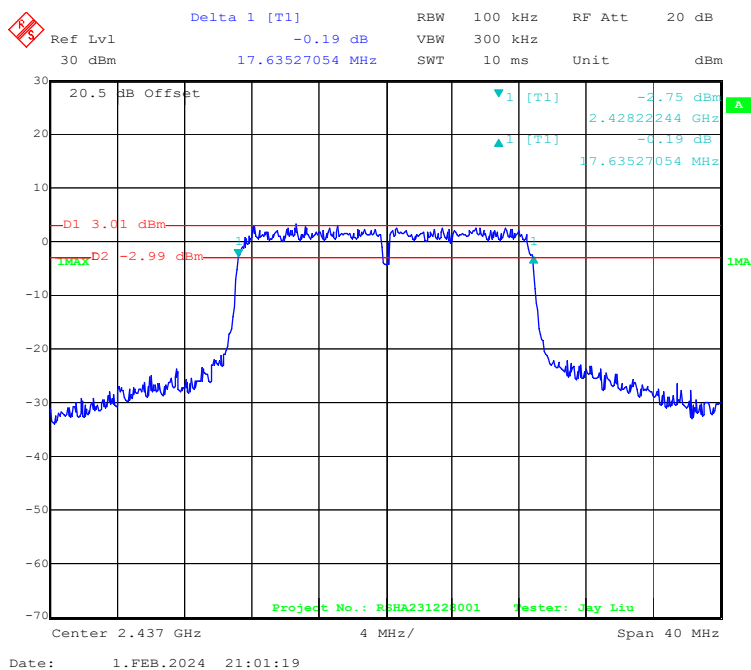
Span 40 MHz

Date: 1.FEB.2024 20:43:01

802.11n-HT20 Mode Low Channel



802.11n-HT20 Mode Middle Channel



Delta 1 [T1] -0.99 dB RBW 100 kHz RF Att 20 dB

Ref Lvl 30 dBm 17.55511022 MHz VBW 300 kHz Unit dBm

SWT 10 ms

20.5 dB Offset

▼ 1 [T1] -2.62 dBm

▲ 1 [T1] -0.99 dBm

17.55511022 MHz

—D1 2.67 dBm

—IMAX D2 -3.33 dBm

Project No.: RSHA231228001 Tester: Jay Liu

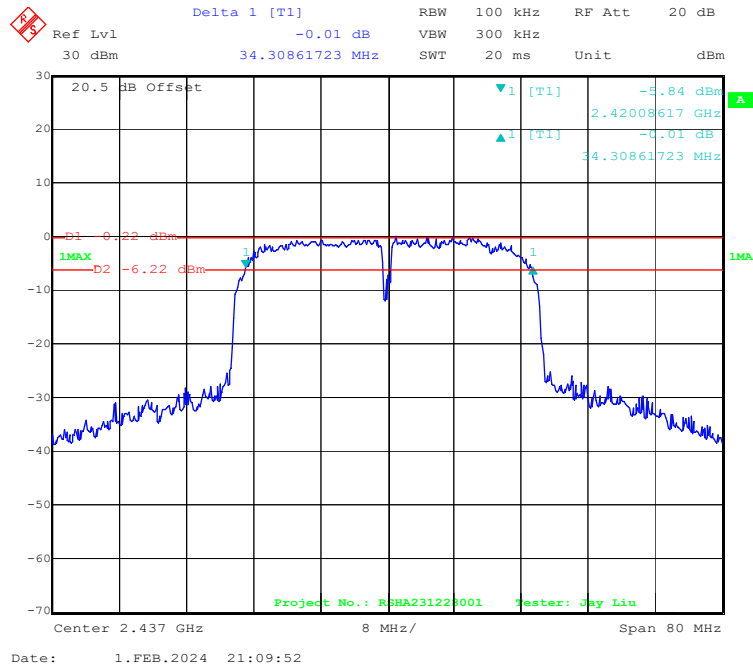
Center 2.462 GHz 4 MHz/ Span 40 MHz

Date: 1.FEB.2024 21:03:41

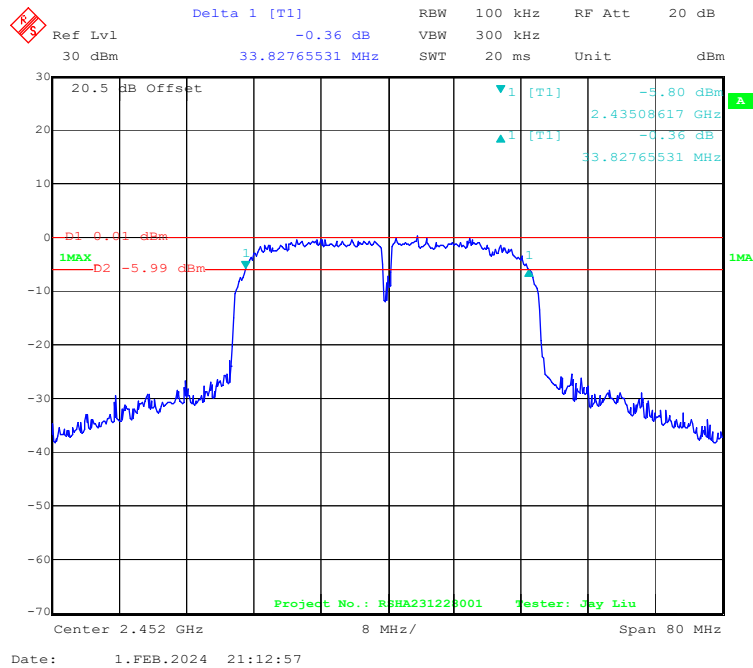
Delta 1 [T1] 0.12 dB
 RBW 100 kHz RF Att 20 dB
 Ref Lvl 30 dBm VBW 300 kHz
 30 dBm 34.14829659 MHz SWT 20 ms Unit dBm

20.5 dB Offset
 -5.90 dBm
 2.40524649 GHz
 0.12 dB
 34.14829659 MHz
 D1 0 dBm
 1MAX
 D2 -6 dBm
 1MA
 Project No.: RSHA231228001 Tester: Jay Liu
 Center 2.422 GHz 8 MHz/
 Span 80 MHz

802.11n-HT40 Mode Middle Channel

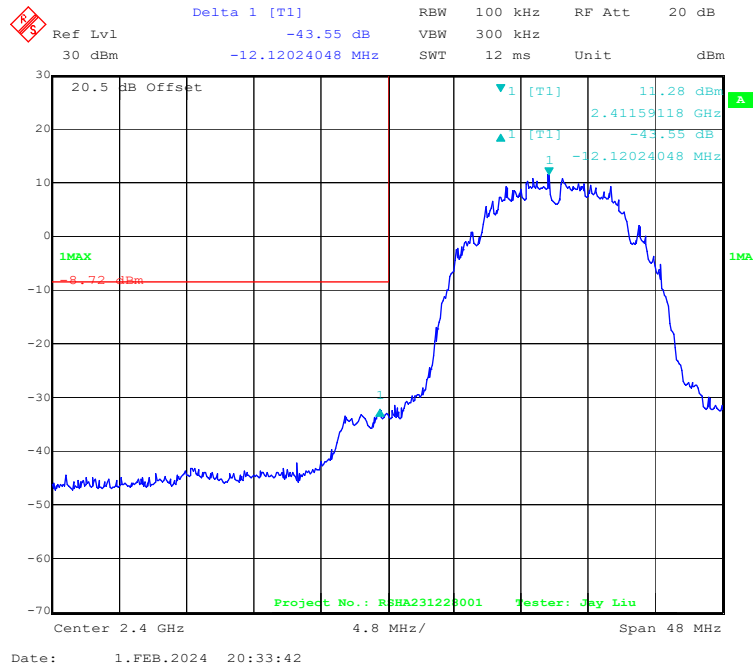
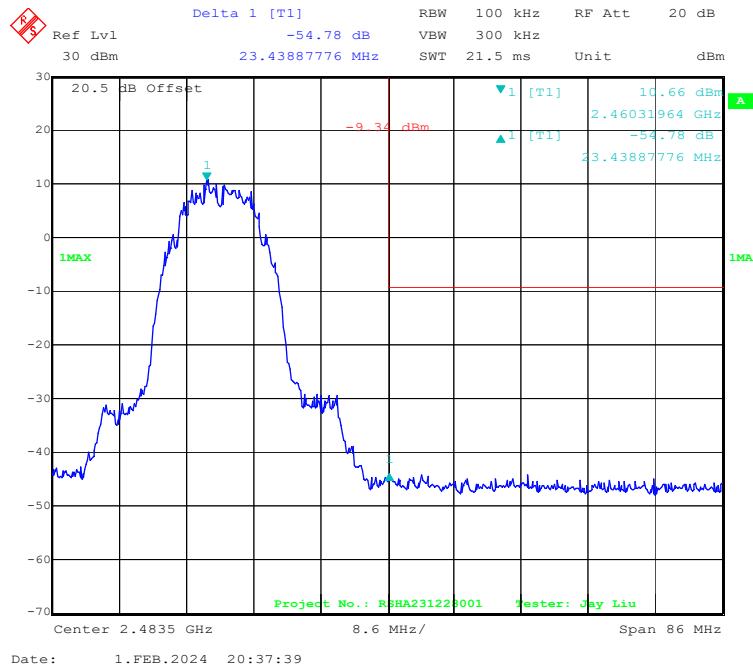


802.11n-HT40 Mode High Channel

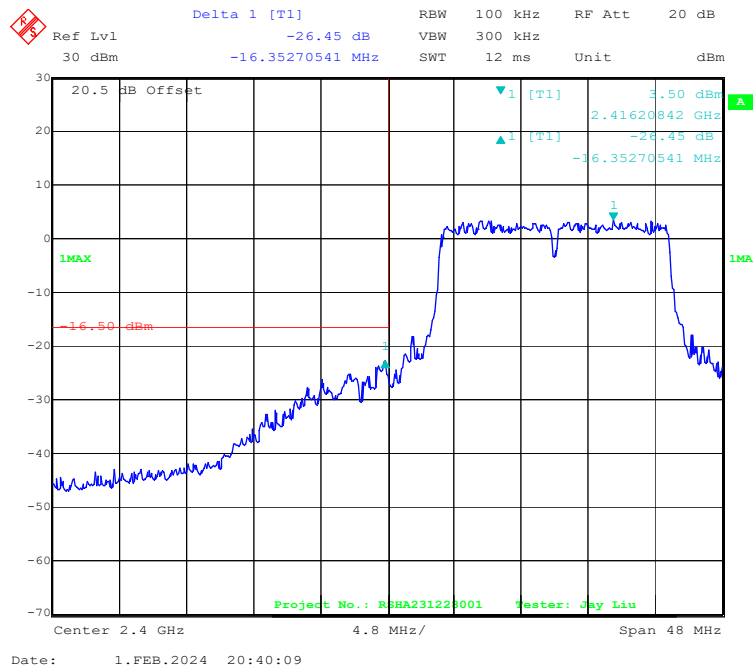


MAXIMUM CONDUCTED OUTPUT POWER*EUT operation mode: Transmitting*

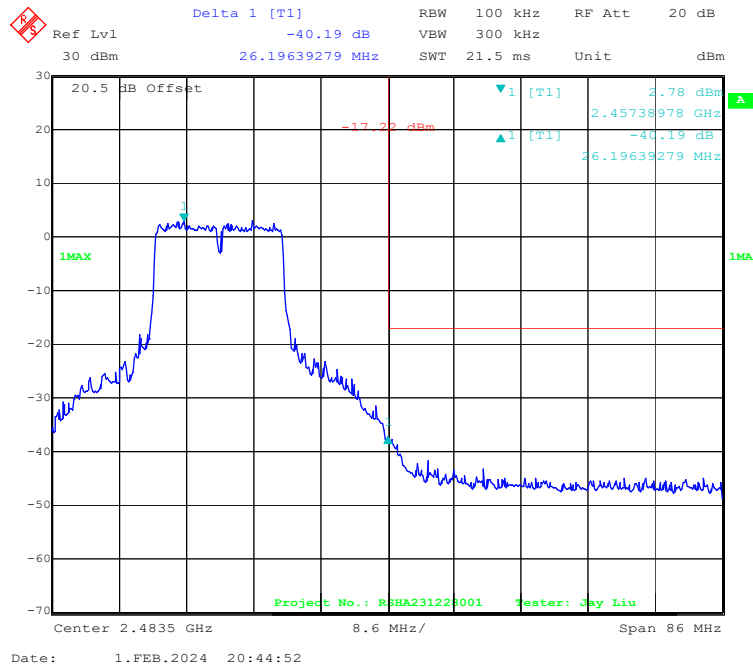
Channel	Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Limit (dBm)	Result
802.11b Mode					
Low	2412	23.17	20.52	30	Pass
Middle	2437	23.18	20.59	30	Pass
High	2462	23.36	20.84	30	Pass
802.11g Mode					
Low	2412	24.61	18.27	30	Pass
Middle	2437	24.67	18.28	30	Pass
High	2462	24.67	18.41	30	Pass
802.11n-HT20 Mode					
Low	2412	24.53	18.16	30	Pass
Middle	2437	24.59	18.18	30	Pass
High	2462	24.66	18.31	30	Pass
802.11n-HT40 Mode					
Low	2422	24.51	17.61	30	Pass
Middle	2437	24.52	17.69	30	Pass
High	2452	24.58	17.91	30	Pass

BAND EDGE*EUT operation mode: Transmitting***802.11b Mode Left Side****802.11b Mode Right Side**

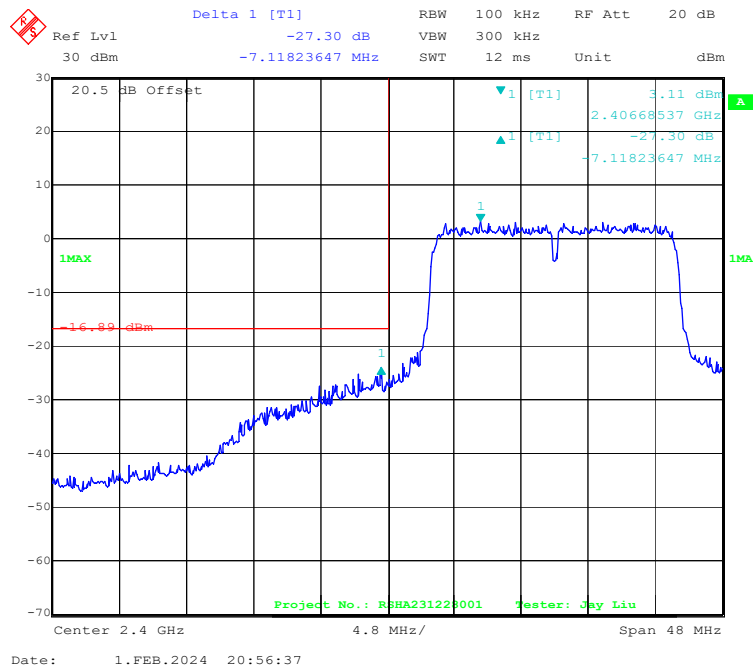
802.11g Mode Left Side



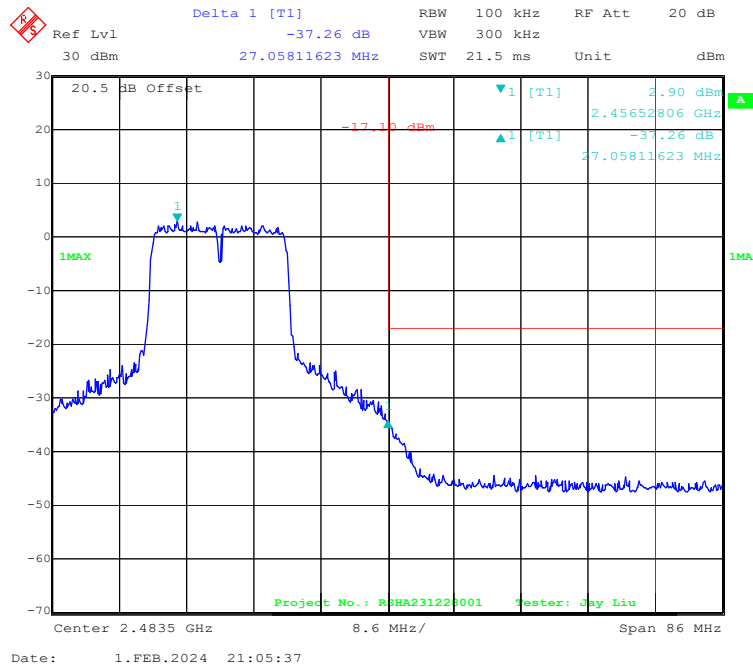
802.11g Mode Right Side



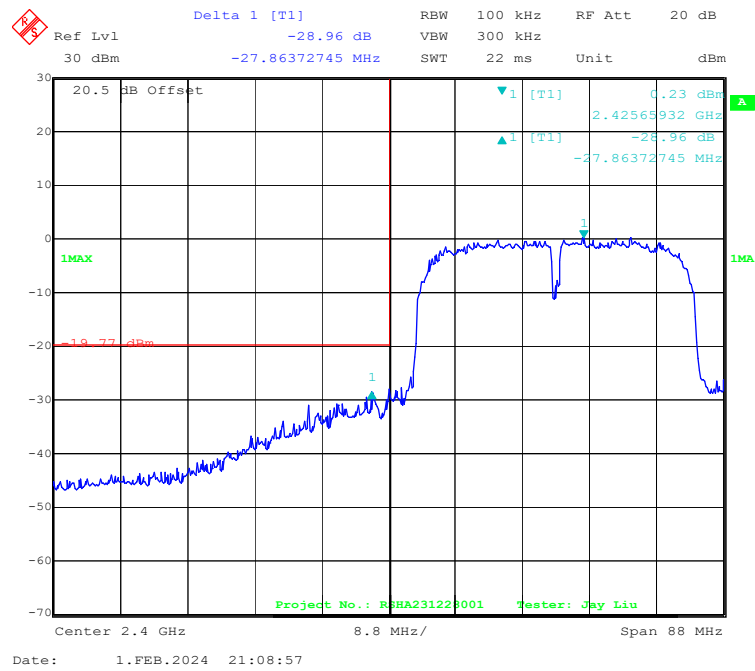
802.11n-HT20 Mode Left Side



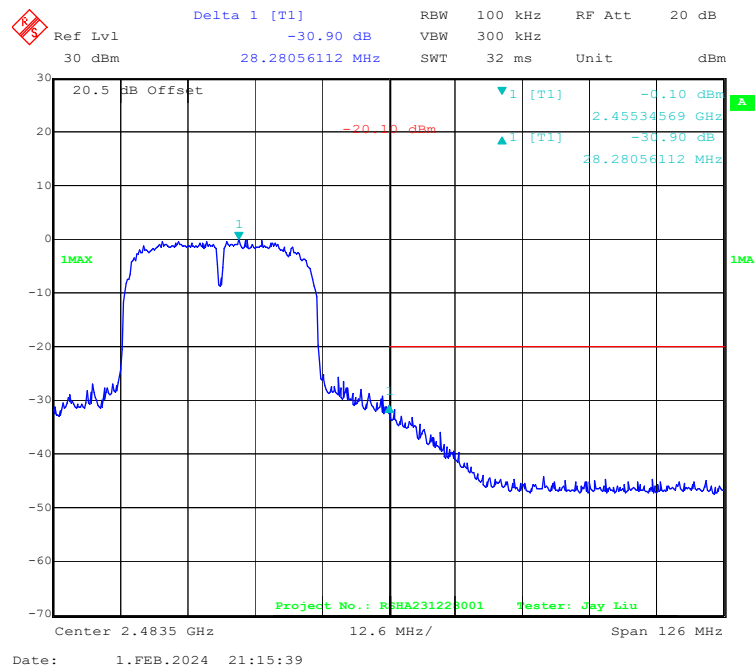
802.11n-HT20 Mode Right Side



802.11n-HT40 Mode Right Side



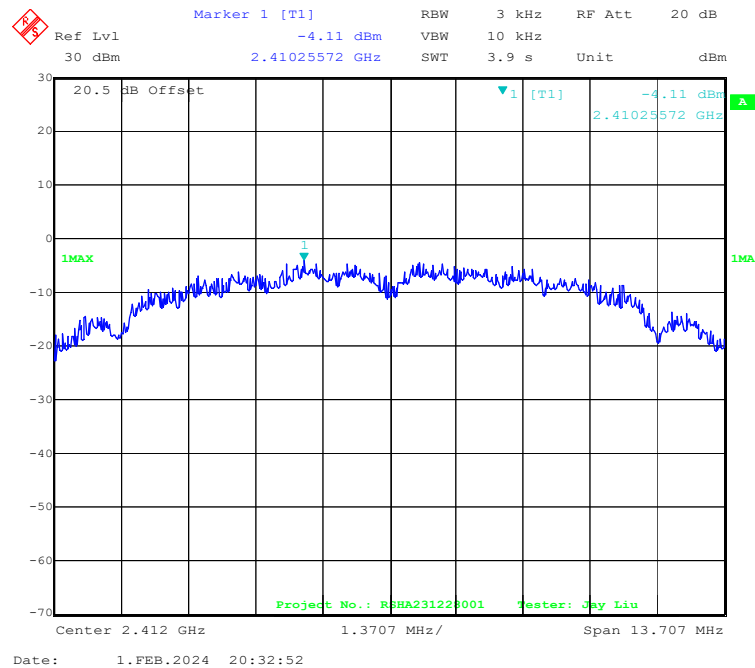
802.11n-HT40 Mode Right Side



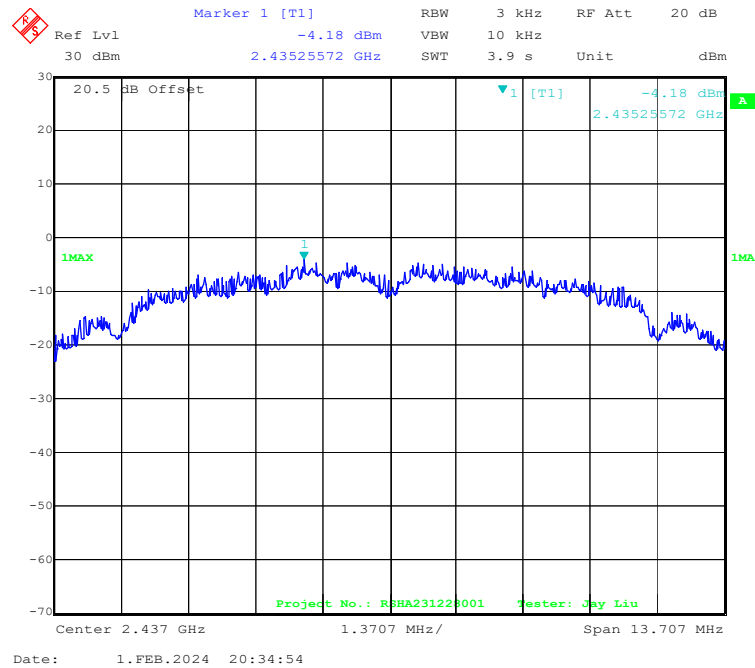
POWER SPECTRAL DENSITY*EUT operation mode: Transmitting*

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b Mode			
Low	2412	-4.11	≤8
Middle	2437	-4.18	≤8
High	2462	-4.69	≤8
802.11g Mode			
Low	2412	-11.51	≤8
Middle	2437	-10.48	≤8
High	2462	-11.20	≤8
802.11n-HT20 mode			
Low	2412	-10.37	≤8
Middle	2437	-10.91	≤8
High	2462	-11.19	≤8
802.11n-HT40 mode			
Low	2422	-12.59	≤8
Middle	2437	-11.67	≤8
High	2452	-11.48	≤8

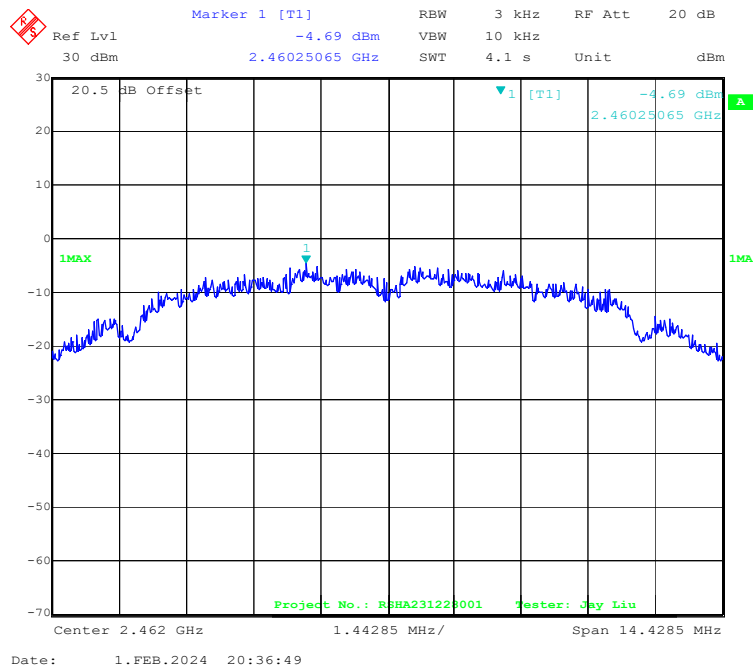
802.11b Low Channel



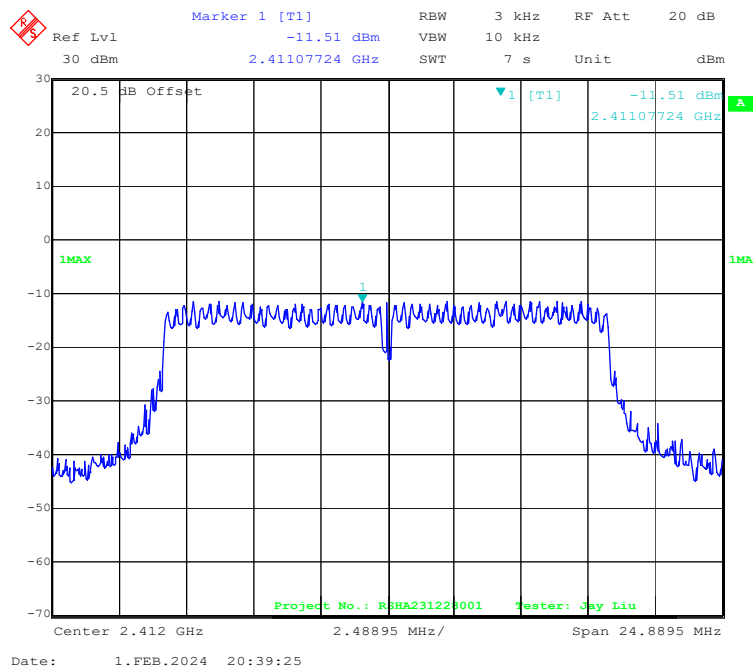
802.11b Middle Channel



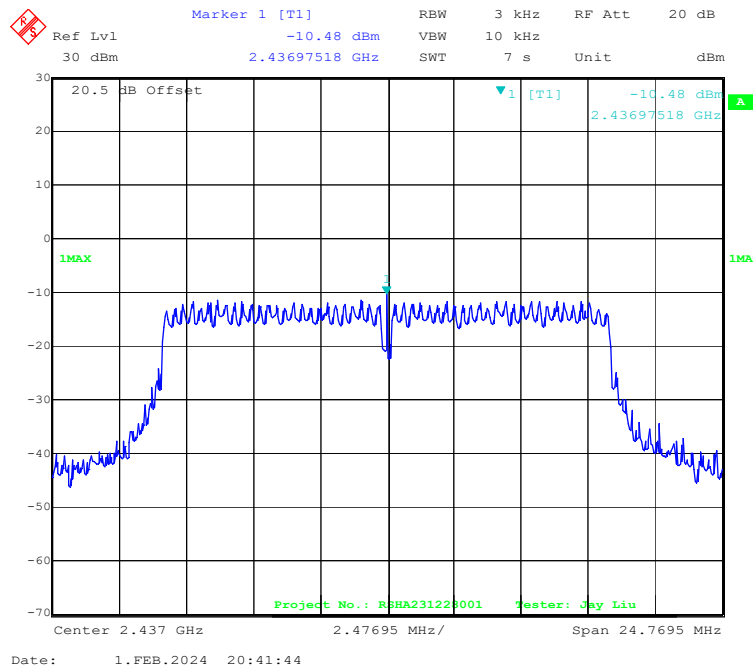
802.11b High Channel



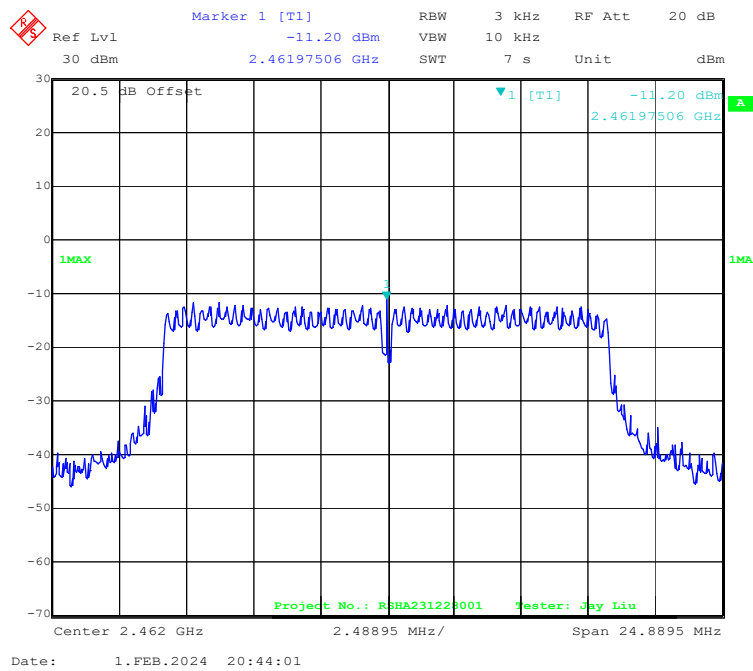
802.11g Low Channel



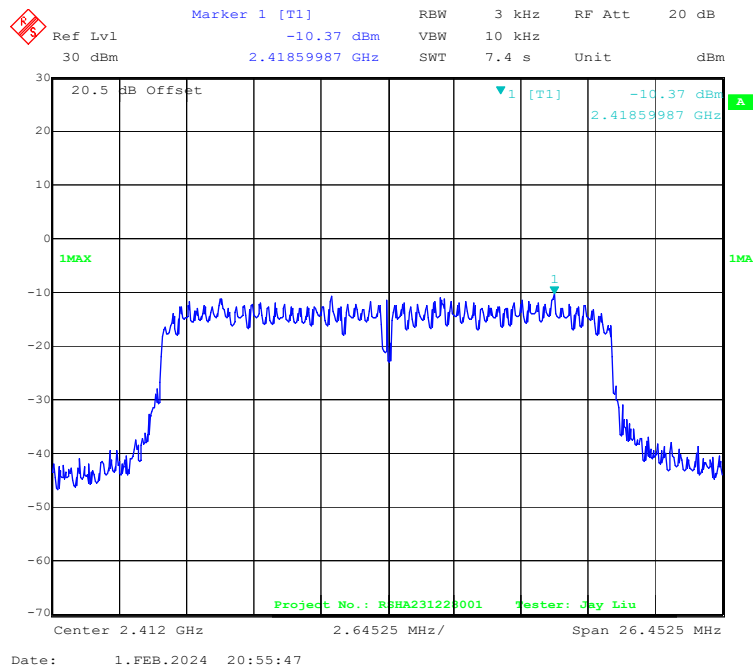
802.11g Middle Channel



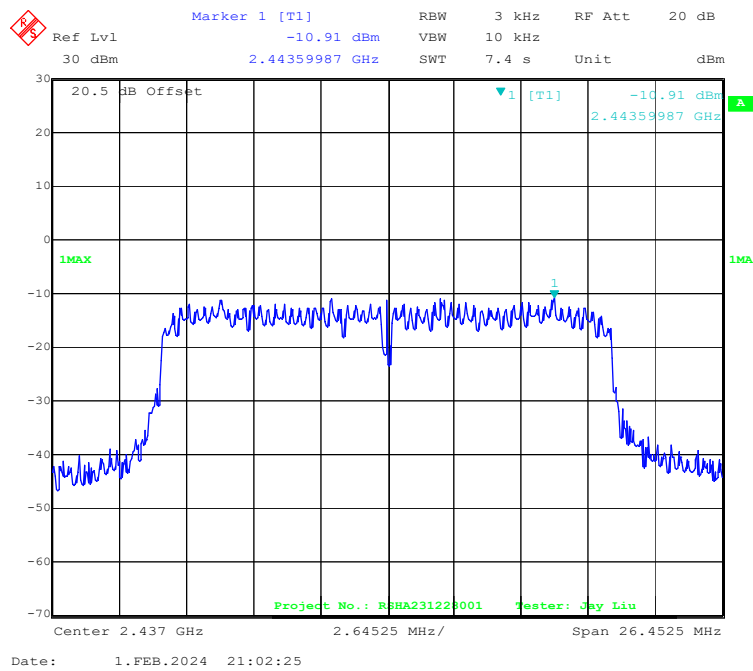
802.11g High Channel



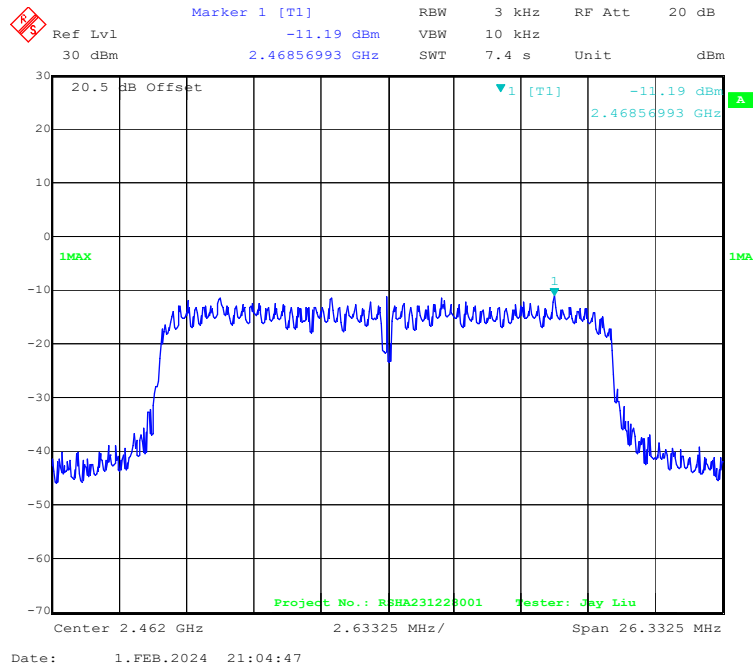
802.11n-HT20 Low Channel



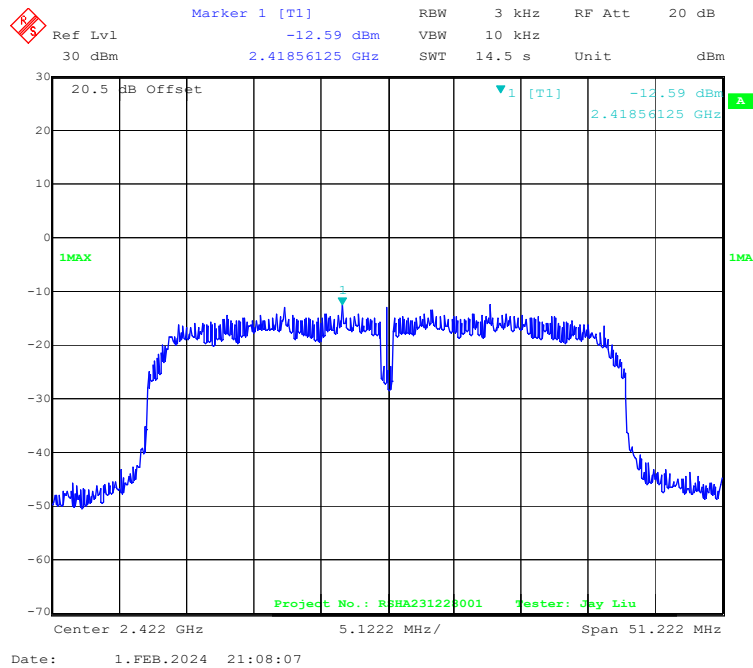
802.11n-HT20 Middle Channel



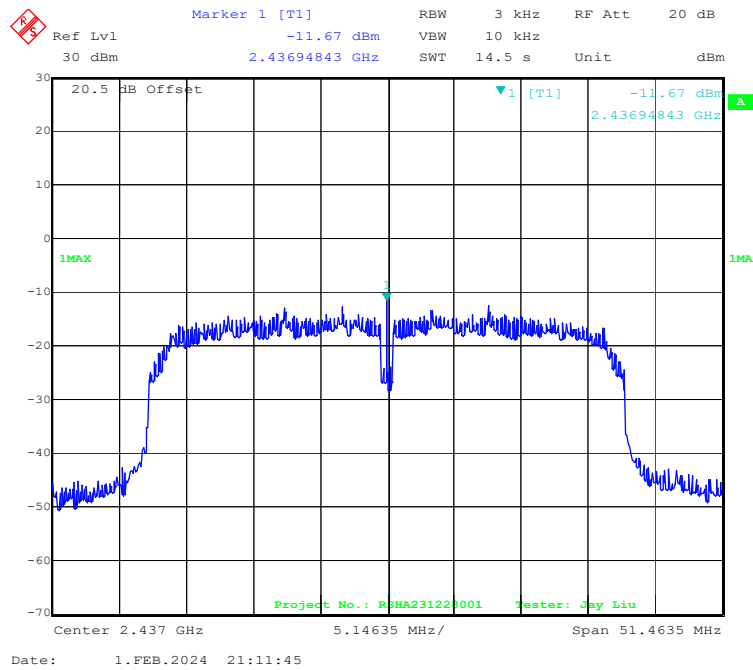
802.11n-HT20 High Channel



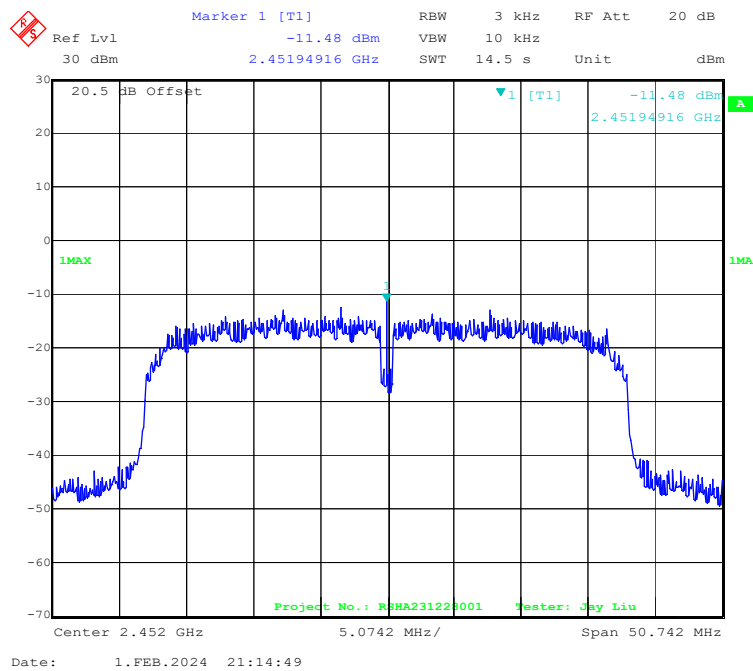
802.11n-HT40 Low Channel



802.11n-HT40 Middle Channel



802.11n-HT40 High Channel



Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. 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.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.

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