

FCC PART 15.247

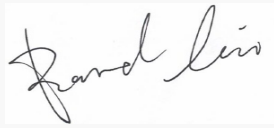
TEST REPORT

For

Tersus GNSS Inc.

Rm 601, Bldg E2, No. 88, Jinjihu Ave, Suzhou, China

FCC ID: 2AMDJ-TC120

Report Type: Original Report	Product Name: Tablet
Report Number: RSHA250211001-00A	
Report Date: 2025-05-29	
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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	RSHA250211001-00A	R1V1	2025-05-29	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Tersus GNSS Inc.
Tested Model	TC120
Product Name	Tablet
Power Supply	DC 9-36 V
RF Function:	2.4G Wi-Fi; BLE
Operating Band/Frequency:	2.4G Wi-Fi: 2412~2462 MHz(802.11b/g/n20), 2422~2452 MHz(802.11n40) BLE(1Mbps): 2402-2480 MHz
Maximum Peak Output Power:	2.4G Wi-Fi: 802.11b: 19.84 dBm 802.11g: 18.30 dBm 802.11n20: 18.67 dBm 802.11n40: 16.73 dBm BLE(1Mbps): -3.55 dBm
Channel Number:	2.4G Wi-Fi: 11(802.11b/g/n20), 7(802.11n40) BLE: 40
Channel Separation:	2.4G Wi-Fi: 5 MHz BLE: 2 MHz
Modulation Type:	2.4G Wi-Fi: DSSS, OFDM BLE: GFSK
Antenna Type:	2.4G Wi-Fi /BLE: FPC Antenna
★Maximum Antenna Gain:	2.4G Wi-Fi /BLE: 1.5 dBi

Note: The maximum antenna gain was declared by the manufacturer.

All measurement and test data in this report was gathered from production sample serial number: RSHA250211001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-02-11.)

Objective

This report is prepared for *Tersus GNSS Inc.* 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 C63.10-2020, American National Standard of Procedures for Compliant Testing of Unlicensed Wireless Devices and FCC 558074 D01 15.247 Meas Guidance v05r02.

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

Channel List for BLE mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	/	/
13	2428	27	2456	/	/

EUT was tested with channel 0, 19 and 39.

Channel List for Wi-Fi Mode:

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	/	/

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.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

RF test software: Engineering Mode

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

Mode	Data rate	Power Level★		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	19.5	19.5	19.5
802.11g	6Mbps	17.5	17.5	17.5
802.11n-HT20	MCS0	17.5	17.5	17.5
802.11n-HT40	MCS0	12	12	12
BLE(1Mbps)	MCS0	Default	Default	Default

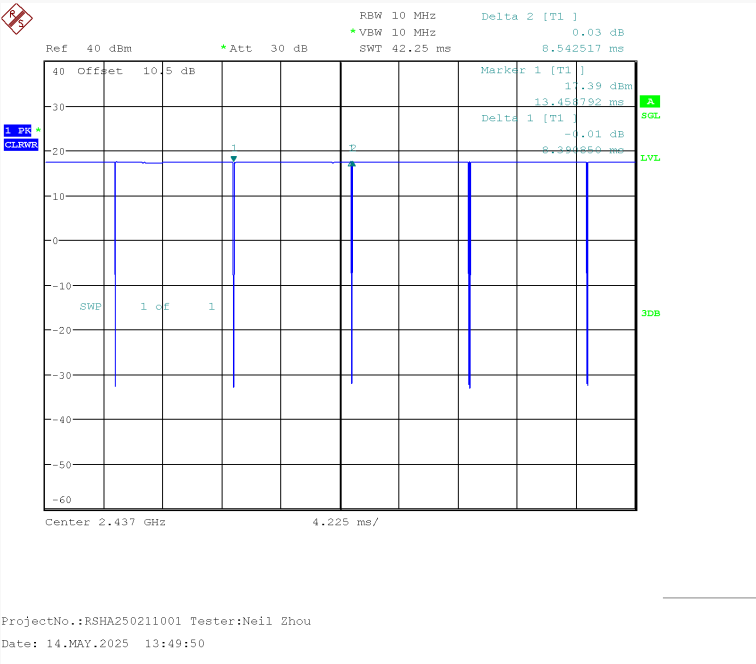
Note: The power level was declared by the applicant.

Duty Cycle:

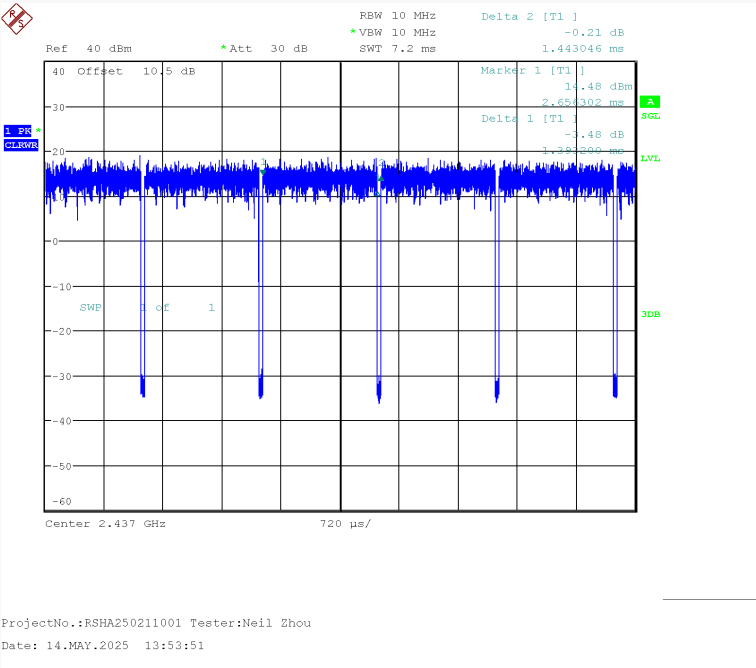
Environmental Conditions & Test Information

Test Date:	2025-03-05	2025-05-14
Temperature:	24 °C	22.5 °C
Relative Humidity:	52 %	45 %
ATM Pressure:	101.0 kPa	102.7 kPa
Test Result:	Pass	Pass
Test Engineer:	Neil Zhou	Neil Zhou

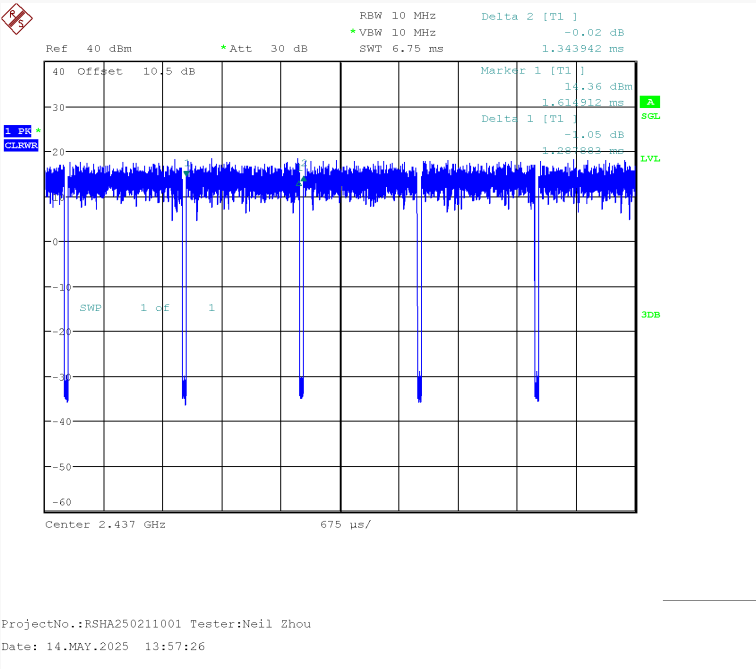
802.11b Mode Middle Channel



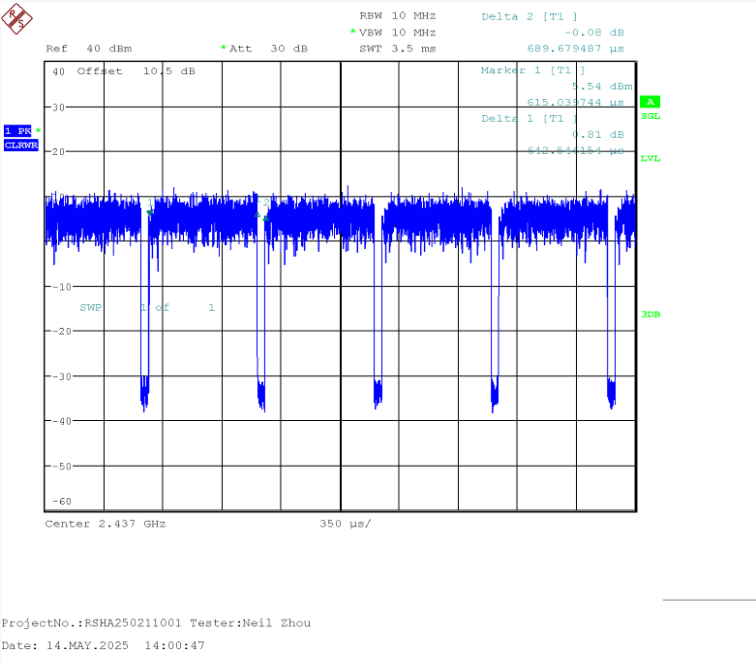
802.11g Mode Middle Channel



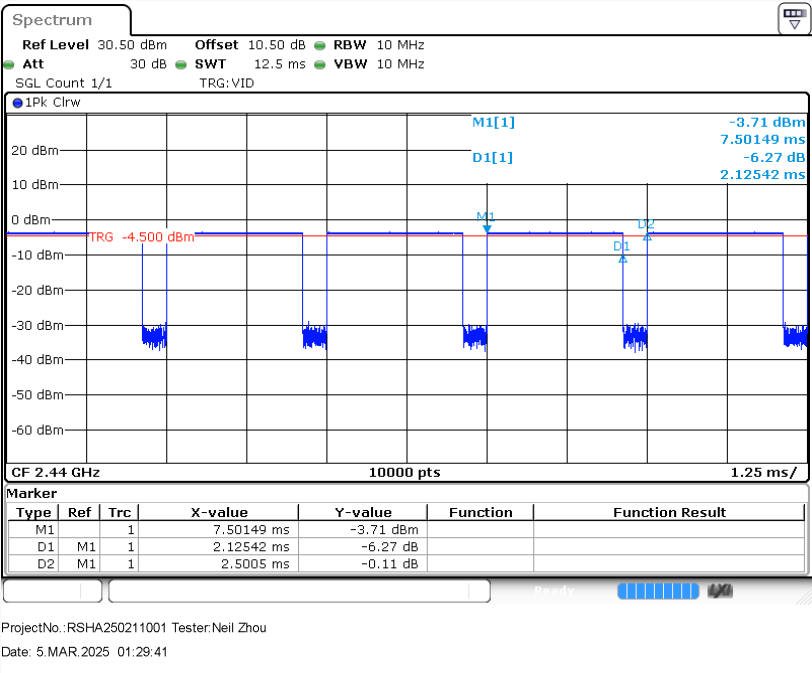
802.11n-HT20 Mode Middle Channel



802.11n-HT40 Mode Middle Channel



BLE(1Mbps) Mode Middle Channel



Mode	Duty Cycle (%)	Ton(ms)	Ton+off(ms)
802.11b	98.22	8.391	8.543
802.11g	96.53	1.393	1.443
802.11n-HT20	95.83	1.288	1.344
802.11n-HT40	93.19	0.643	0.690
BLE(1Mbps)	85.00	2.125	2.500

Note: Offset (10.5dB) = Attenuator(10dB)+Cable loss(0.5dB)

Support Equipment List and Details

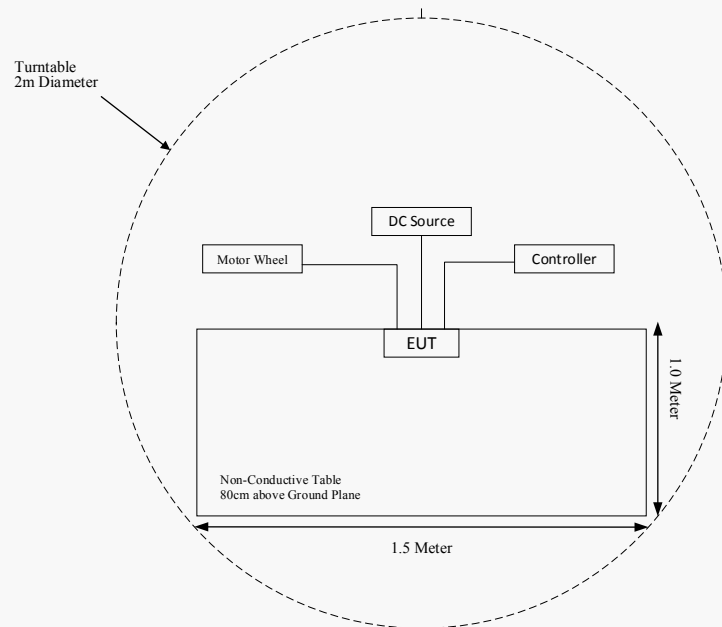
Manufacturer	Description	Model	Serial Number
ZHAOXIN	DC Source	RXN-605D	21R605D08132677
Tersus GNSS Inc.	Motor Wheel	AG993	/
Tersus GNSS Inc.	Controller	GC30	/

External I/O Cable

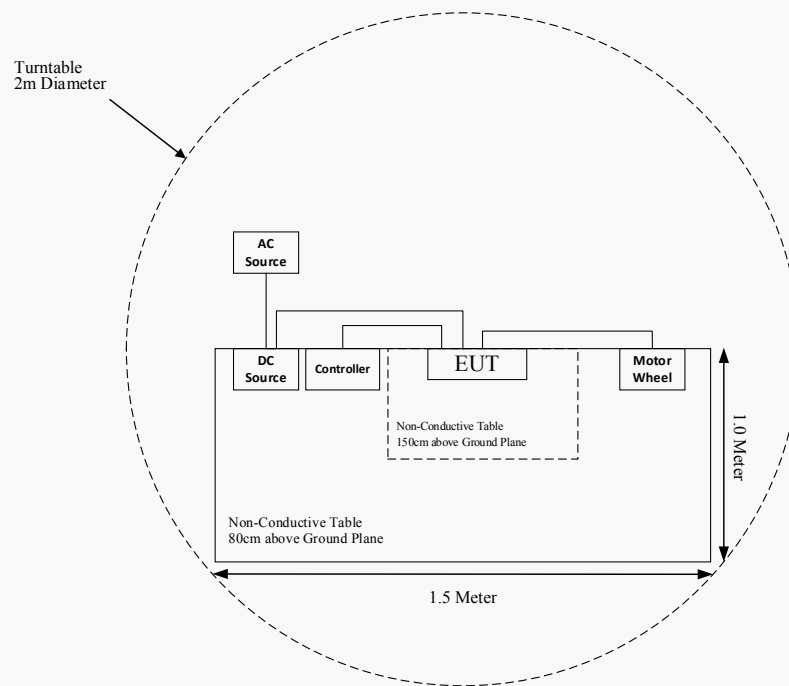
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.5	EUT	DC Source
Power Cable 2	1.0	DC Source	AC Source
Power Cable 3	2.5	EUT	Motor Wheel
Power Cable 4	2.0	EUT	Controller

Block Diagram of Test Setup

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (1GHz - 25GHz):



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)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant
§1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliant

Note: The EUT is a vehicular equipment.

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	2024-04-23	2025-04-22
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Narda	6dB Attenuator	773-6	10690812-2-1	2024-10-29	2027-10-28
ETS-LINDGREN	Loop Antenna	6512	108100	2024-11-03	2027-11-02
Sonoma Instrument	Pre-amplifier	310N	171205	2024-04-23	2025-04-22
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-9	009	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-10	010	2024-04-23	2025-04-22
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2024-04-25	2025-04-24
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2024-12-02	2025-12-01
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
A.H.Systems, inc	Amplifier	PAM-0118P	512	2024-04-25	2025-04-24
SELECTOR	Amplifier	EM18G40G	060726	2024-04-25	2025-04-24
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2024-08-05	2025-08-04
Narda	Attenuator	10dB	010	2024-08-15	2025-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-11	011	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-12	012	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-13	013	2024-04-25	2025-04-24
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSU26	200103	2025-04-09	2026-04-08
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2024-04-08	2025-04-07
Narda	Attenuator	10dB	010	2024-08-15	2025-08-14
Anritsu	Power Sensor	MA24418A	12621	2024-04-09	2025-04-08

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).

FCC §1.1310 & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §2.1091 and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculation Data:

Mode	Frequency Range (MHz)	Antenna Gain		Tune-up Output Power*		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G Wi-Fi	2412-2462	1.5	1.41	20.00	100.00	20	0.0280	1.00
BLE	2402-2480	1.5	1.41	-3.50	0.45	20	0.0001	1.00
BT	2402-2480	1.5	1.41	7.50	5.62	20	0.0016	1.00
5G Wi-Fi	5150-5250	1.2	1.32	11.50	14.13	20	0.0037	1.00
	5725-5850	1.2	1.32	10.50	11.22	20	0.0029	1.00
LTE band 5	824-849	-0.8	0.83	24.50	281.84	20	0.0466	0.5493
LTE band 7	2500-2570	1.62	1.45	22.50	177.83	20	0.0514	1.00
LTE band 38	2570-2620	1.60	1.45	23.50	223.87	20	0.0644	1.00
LTE band 41	2496-2690	1.62	1.45	24.00	251.19	20	0.0726	1.00

(1) The target output powers are all declared by the Manufacturer.

(2) Wi-Fi/BT/BLE and LTE can transmit simultaneously, the worst condition is 802.11b of Wi-Fi, LTE Band 5 as below:

$$\sum_i \frac{S_i}{S_{Limit,i}} = 0.0280/1.00 + 0.0466/0.5493 = 0.0280 + 0.0848 = 0.1128 < 1.0$$

Result: The device meet FCC MPE at 20 cm distance.

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 for 2.4G Wi-Fi & BLE, and the antenna gain is 1.5 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

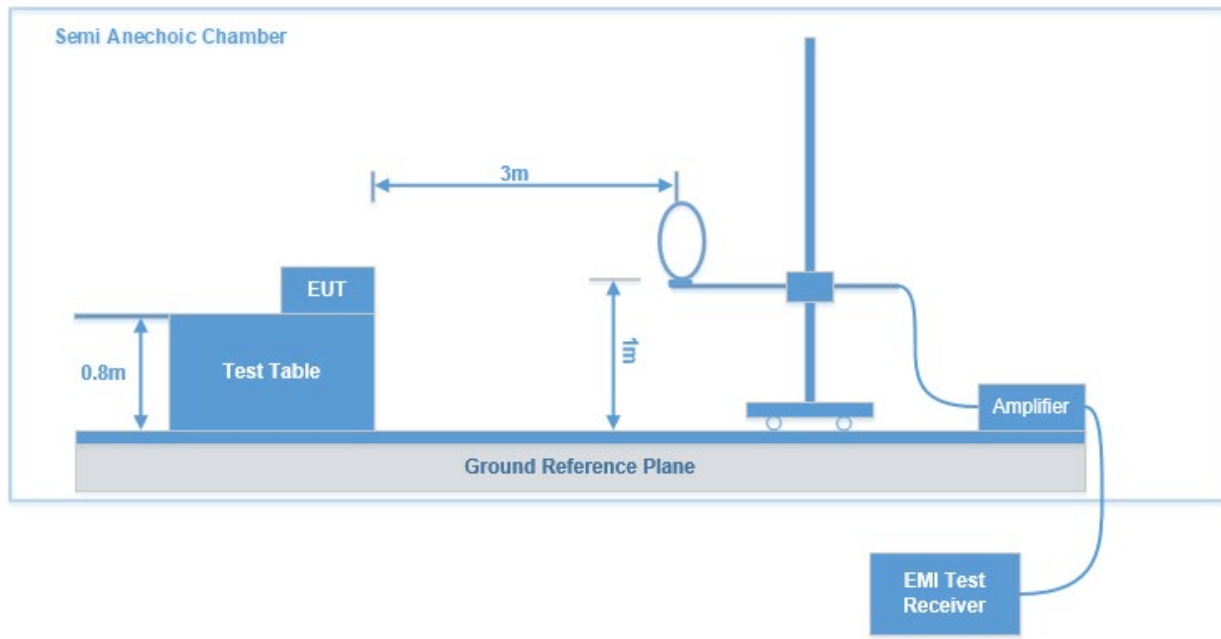
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

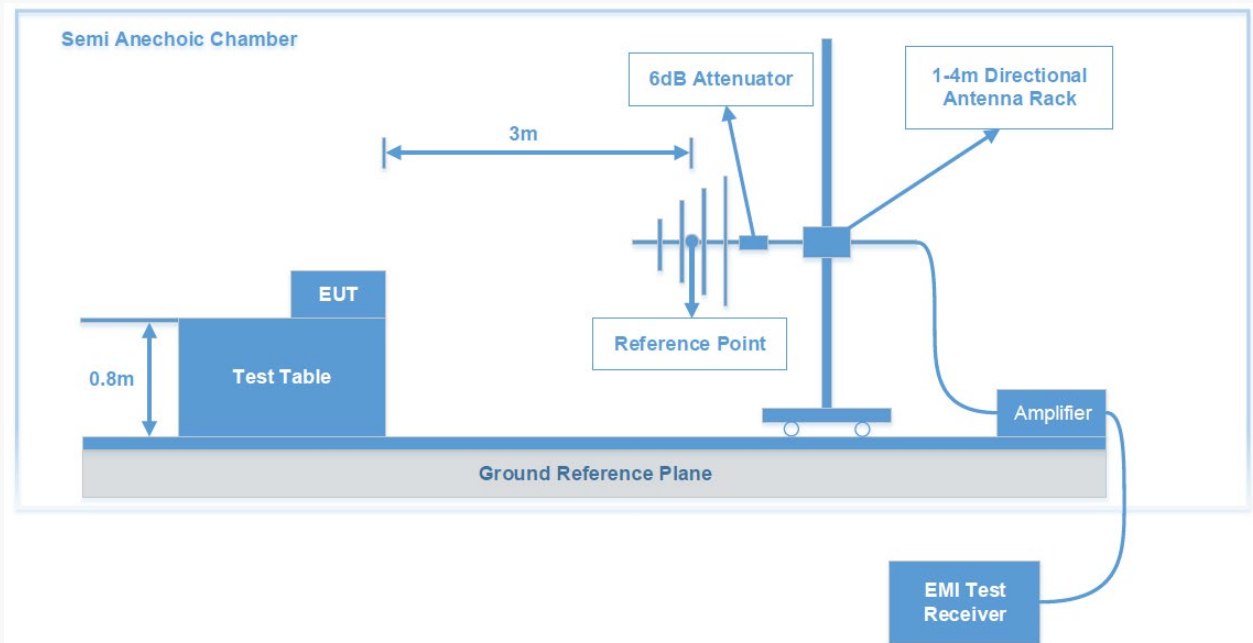
FCC §15.247 (d); §15.209; §15.205;

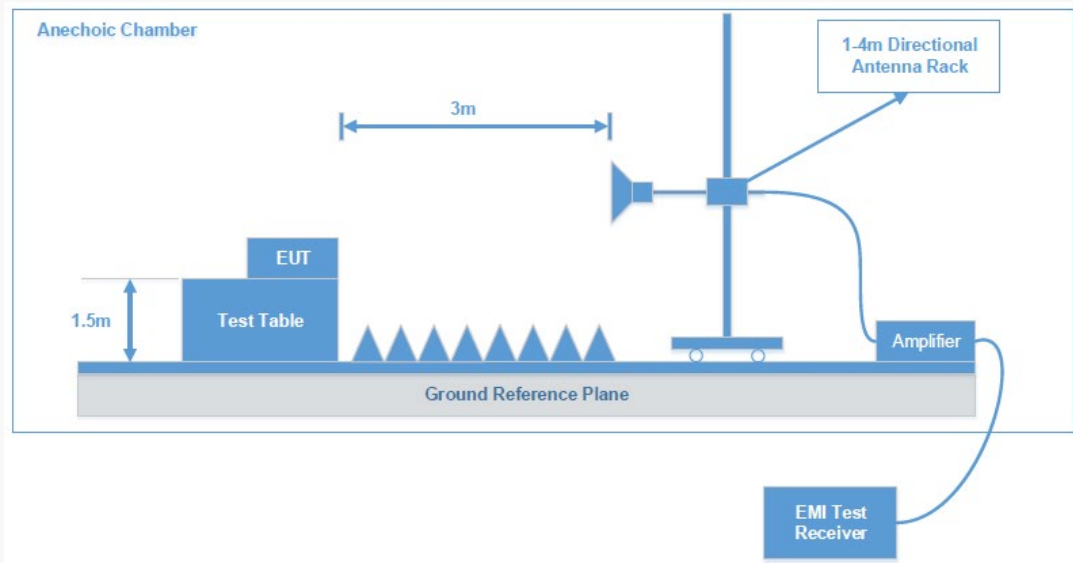
Test System Setup

9 kHz-30MHz:



30MHz-1GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2020. 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

Test Procedure

According to ANSI C63.10-2020 clause 6.4, 6.5 and 6.6.

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

If the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

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 (dB μ V/m) = Meter Reading (dB μ V) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

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 (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Test Results Summary

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

Test Data: See Appendix

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

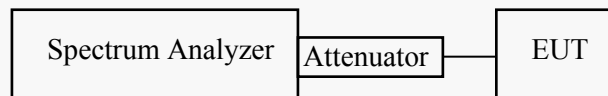
Applicable Standard

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 C63.10-2020 sub-clause 11.8.1

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “–6 dB down amplitude”. If a marker is below this “–6 dB down amplitude” value, then it shall be as close as possible to this value.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

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

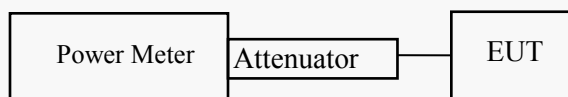
For 2.4G Wi-Fi:

According to ANSI C63.10-2020 sub-clause 11.9.1.2

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

11.9.2.3.2 Method AVGPM-G

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.



For BLE:

According to ANSI C63.10-2020 sub-clause 11.9.1.1

- Set the RBW $\geq$ DTS bandwidth.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Set span $\geq [3 \times \text{RBW}]$.
- Sweep time = No faster than coupled (auto) time.
- Detector = peak.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See Appendix

FCC §15.247(D) – 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

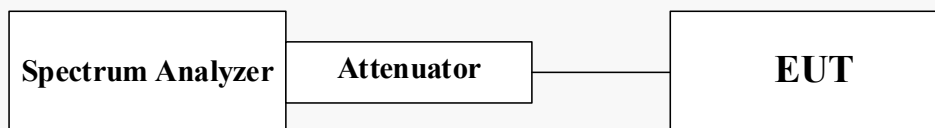
Applicable Standard

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 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 C63.10-2020 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.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See Appendix

FCC §15.247(E) - POWER SPECTRAL DENSITY

Applicable Standard

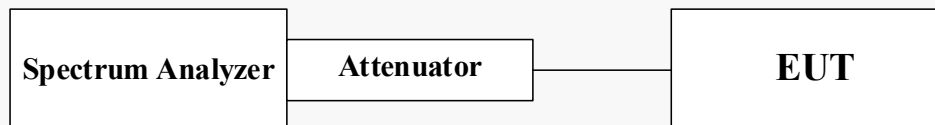
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of 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 C63.10-2020 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:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span > 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) time.
- g) Trace mode = max-hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Data: See Appendix

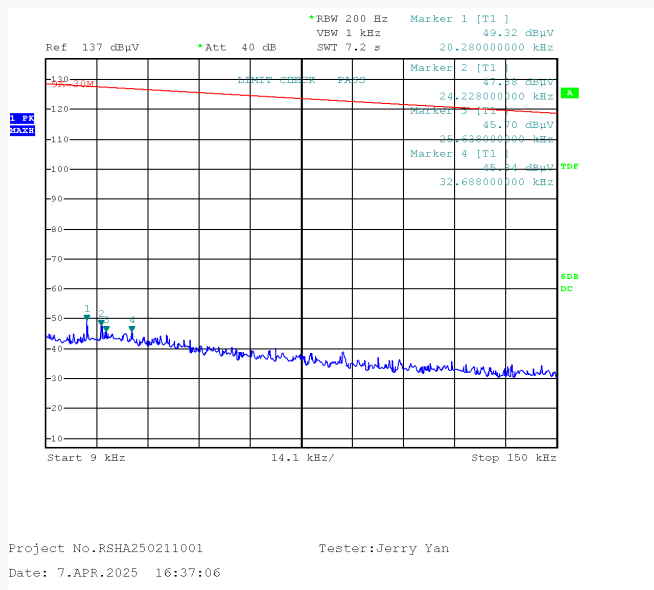
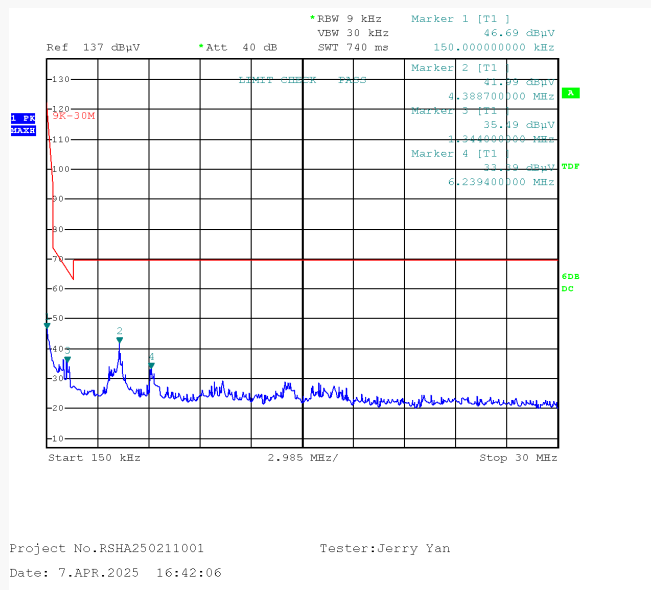
Appendix - TEST DATA

SPURIOUS EMISSIONS

Environmental Conditions & Test Information

Test Item:	SPURIOUS EMISSIONS			
	9kHz - 1GHz		1 GHz - 18 GHz	
Test Date:	2025-04-07	2025-04-01	2025-04-11	2025-03-08
Temperature:	16.3 °C	18.3 °C	24.1 °C	20.3 °C
Relative Humidity:	53 %	39 %	46 %	52 %
ATM Pressure:	102.5 kPa	102.1 kPa	100.9 kPa	102.6 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Jerry Yan	Jerry Yan	Destine Hu	Destine Hu

Test Item:	SPURIOUS EMISSIONS	
	18 GHz – 25 GHz	
Test Date:	2025-04-24	2025-04-23
Temperature:	25.6 °C	17.3 °C
Relative Humidity:	56 %	38 %
ATM Pressure:	102.3 kPa	102.6 kPa
Test Result:	Pass	Pass
Test Engineer:	Hugh Wu	Hugh Wu

For Wi-Fi Mode:**Test Result:** Compliant*EUT operation mode: Transmitting**After pre-scan in the X, Y and Z axes of orientation, the worst case is below:***9 kHz-30MHz:** (Transmitting in 802.11b mode high channel (maximum output power mode))**Parallel(worst case)****9kHz-150kHz****150kHz-30MHz****9 kHz-150 kHz**

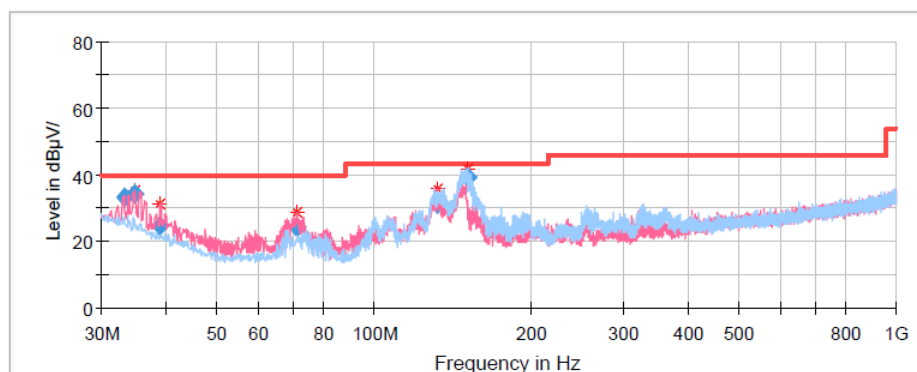
Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
20.28	49.32	PK	-0.56	121.46	72.14
24.23	47.88	PK	-0.58	119.92	72.04
25.64	45.70	PK	-0.59	119.43	73.73
32.69	45.84	PK	-1.04	117.32	71.48

150 kHz-30 MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15	46.69	PK	-11.34	104.08	57.39
1.34	35.49	PK	-28.73	65.06	29.57
4.39	41.99	PK	-31.97	69.54	27.55
6.24	33.39	PK	-32.25	69.54	36.15

30MHz-1GHz (Transmitting in maximum output power mode 802.11b mode high channel):**High channel: 2462MHz****Common Information**

Project No: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11b mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 18.3°C
Humidity: 39%
Barometric Pressure: 102.1 kPa
Test Engineer: Jerry Yan
Test Date: 2025/4/1

**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
33.154200	33.00	40.00	7.00	V	-7.4
34.853600	34.39	40.00	5.61	V	-7.9
38.971150	24.85	40.00	15.15	V	-10.2
70.987400	24.06	40.00	15.94	V	-16.6
131.856100	31.11	43.50	12.39	V	-11.1
151.377850	39.32	43.50	4.18	H	-11.7

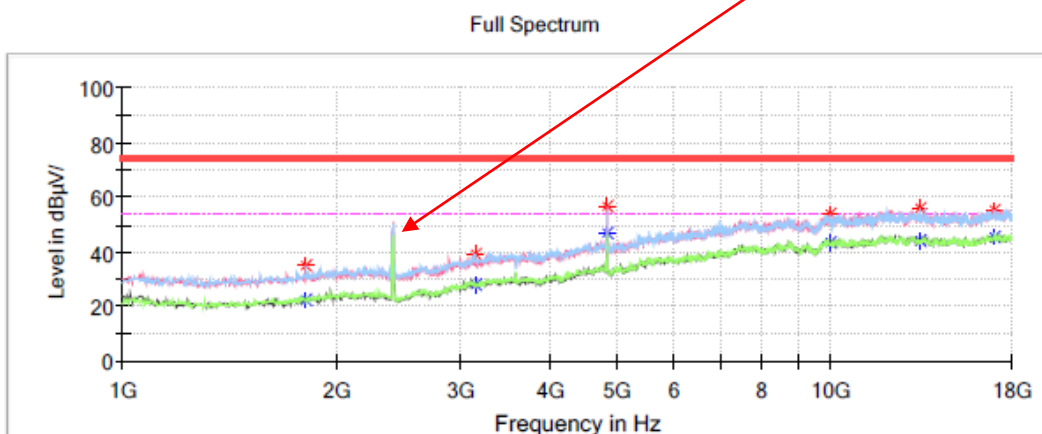
1GHz-18GHz:
802.11b Mode:

Low Channel: 2412MHz

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11b mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with
Band Reject Filter



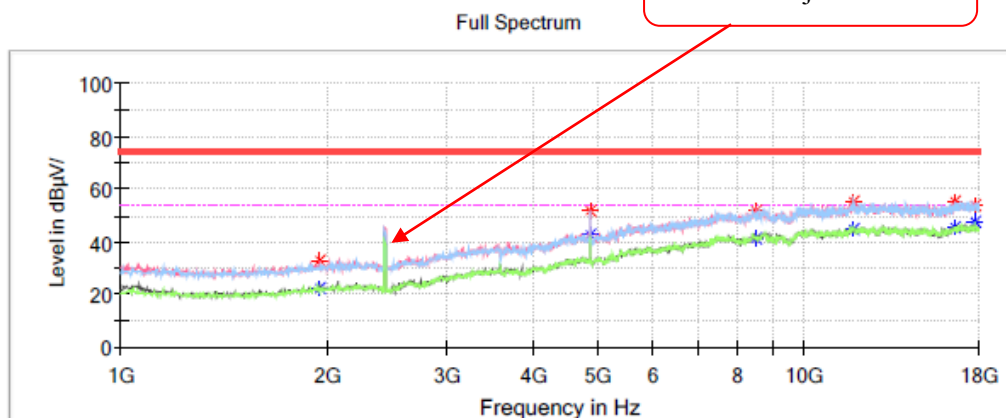
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1816.000000	---	22.21	54.00	31.79	H	-12.8
1816.000000	34.92	---	74.00	39.08	H	-12.8
3148.800000	---	28.32	54.00	25.68	H	-7.8
3148.800000	38.99	---	74.00	35.01	H	-7.8
4821.600000	---	47.06	54.00	6.94	V	-3.1
4821.600000	56.73	---	74.00	17.27	V	-3.1
10003.200000	---	43.16	54.00	10.84	V	7.2
10003.200000	54.18	---	74.00	19.82	V	7.2
13393.000000	---	44.37	54.00	9.63	H	9.6
13393.000000	55.61	---	74.00	18.39	H	9.6
17034.400000	---	45.54	54.00	8.46	V	12.2
17034.400000	54.94	---	74.00	19.06	V	12.2

Middle Channel: 2437MHz**Common Information**

Project No.:	RSHA250211001
EUT Model:	TC120
Test Mode:	Transmitting in 802.11b mode Middle channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.3°C
Humidity:	52%
Atmospheric Pressure:	102.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/3/8

Fundamental Test with
Band Reject Filter

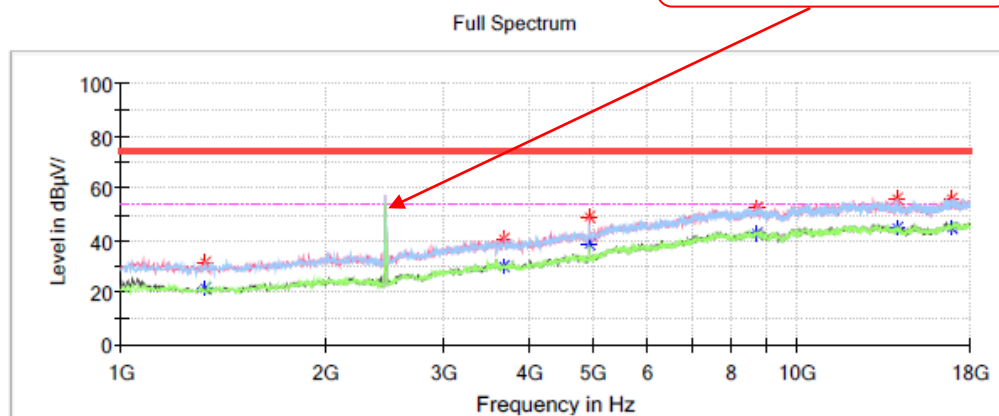
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1955.400000	---	22.70	54.00	31.30	V	-12.0
1955.400000	32.61	---	74.00	41.39	V	-12.0
4872.600000	---	42.90	54.00	11.10	V	-2.9
4872.600000	51.60	---	74.00	22.40	V	-2.9
8473.200000	---	41.30	54.00	12.70	H	5.3
8473.200000	52.03	---	74.00	21.97	V	5.3
11839.200000	---	44.54	54.00	9.46	V	8.9
11839.200000	55.42	---	74.00	18.58	H	8.9
16561.800000	55.55	---	74.00	18.45	V	11.0
16561.800000	---	45.46	54.00	8.54	V	11.0
17816.400000	53.95	---	74.00	20.05	V	11.8
17816.400000	---	47.54	54.00	6.46	H	11.8

High Channel: 2462MHz**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11b mode High channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

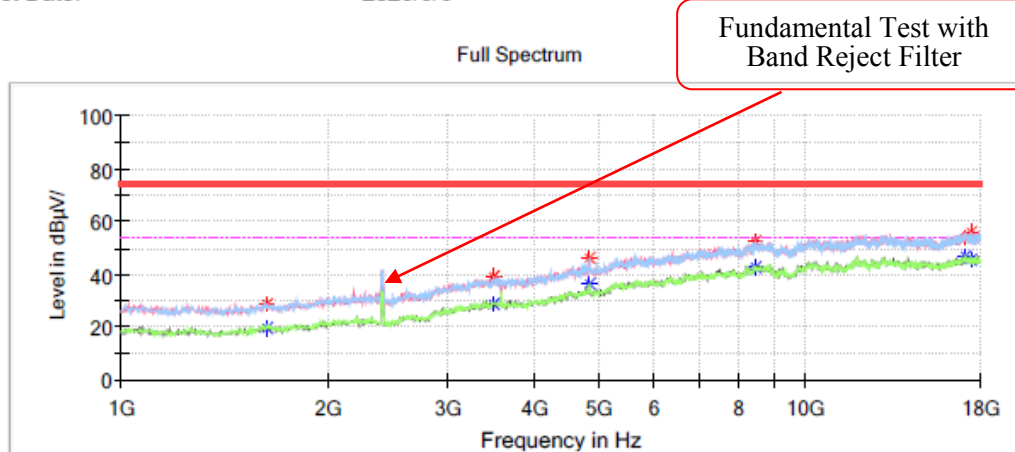
Fundamental Test with
Band Reject Filter

**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)
1329.800000	---	21.42	54.00	32.58	V	-15.0
1329.800000	31.28	---	74.00	42.72	V	-15.0
3669.000000	---	29.99	54.00	24.01	V	-6.2
3669.000000	40.42	---	74.00	33.58	V	-6.2
4923.600000	---	38.73	54.00	15.27	V	-2.7
4923.600000	49.09	---	74.00	24.91	V	-2.7
8701.000000	---	42.37	54.00	11.63	V	5.4
8701.000000	52.42	---	74.00	21.58	V	5.4
14073.000000	---	44.82	54.00	9.18	H	9.7
14073.000000	56.02	---	74.00	17.98	H	9.7
16901.800000	---	44.82	54.00	9.18	V	12.0
16901.800000	56.02	---	74.00	17.98	H	12.0

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

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11g mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESU40,3115, PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

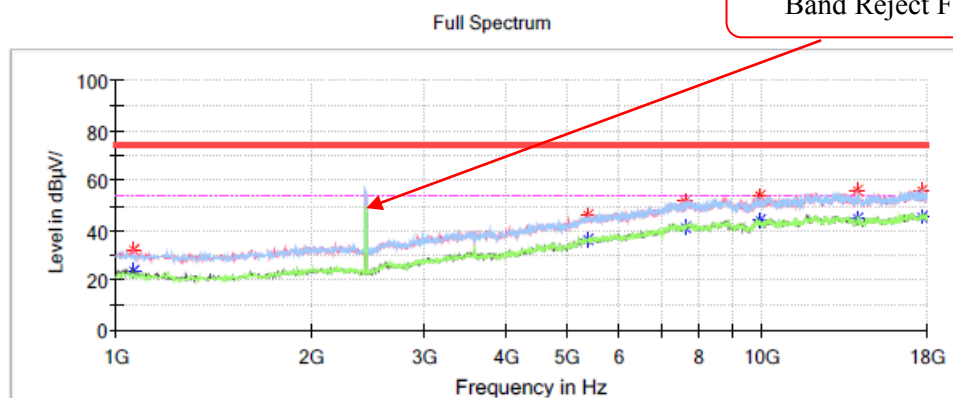
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1632.400000	---	19.46	54.00	34.54	H	-13.9
1632.400000	28.98	---	74.00	45.02	H	-13.9
3505.800000	---	28.88	54.00	25.12	V	-6.3
3505.800000	38.89	---	74.00	35.11	H	-6.3
4821.600000	---	36.39	54.00	17.61	H	-3.1
4821.600000	45.87	---	74.00	28.13	H	-3.1
8422.200000	---	42.87	54.00	11.13	V	5.2
8422.200000	52.55	---	74.00	21.45	V	5.2
17082.000000	---	46.94	54.00	7.06	H	12.2
17082.000000	53.89	---	74.00	20.11	V	12.2
17425.400000	---	45.49	54.00	8.51	V	11.6
17425.400000	56.10	---	74.00	17.90	V	11.6

Middle Channel: 2437MHz**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11g mode Middle channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with
Band Reject Filter

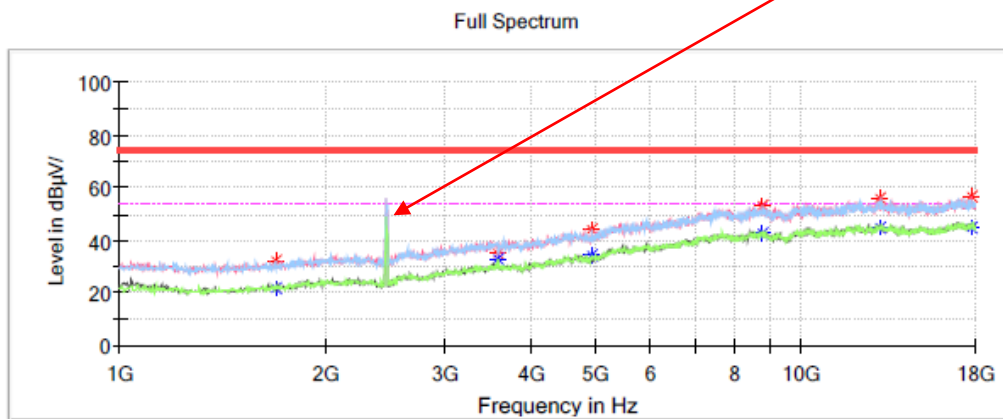
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	---	23.47	54.00	30.53	V	-15.4
1061.200000	31.95	---	74.00	42.05	V	-15.4
5362.200000	---	36.48	54.00	17.52	V	-0.9
5362.200000	46.08	---	74.00	27.92	V	-0.9
7592.600000	---	41.40	54.00	12.60	H	3.9
7592.600000	52.06	---	74.00	21.94	V	3.9
9925.000000	---	44.15	54.00	9.85	V	6.9
9925.000000	54.19	---	74.00	19.81	V	6.9
14042.400000	---	44.59	54.00	9.41	V	9.8
14042.400000	55.87	---	74.00	18.13	H	9.8
17626.000000	---	45.21	54.00	8.79	H	11.6
17626.000000	55.93	---	74.00	18.07	V	11.6

High Channel: 2462MHz**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11g mode High channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Fundamental Test with
Band Reject Filter

**Critical_Freqs**

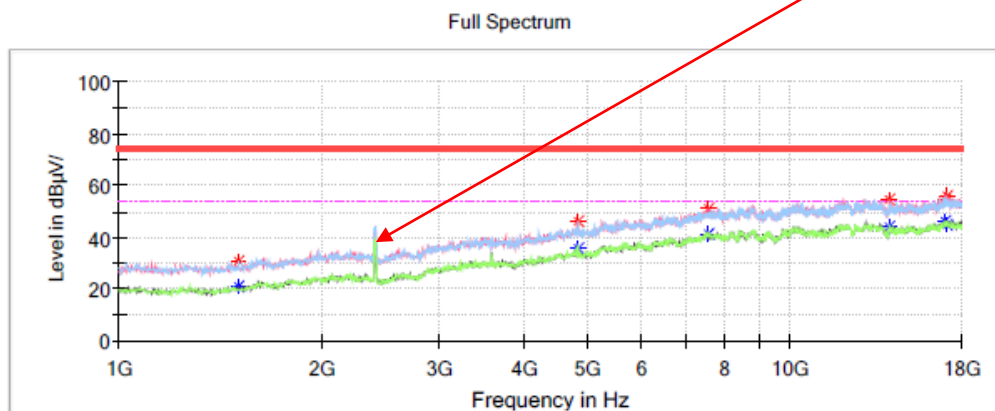
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1693.600000	---	21.65	54.00	32.35	V	-13.6
1693.600000	32.40	---	74.00	41.60	H	-13.6
3597.600000	34.82	---	74.00	39.18	V	-6.3
3597.600000	---	33.02	54.00	20.98	H	-6.3
4927.000000	---	34.06	54.00	19.94	H	-2.7
4927.000000	44.00	---	74.00	30.00	H	-2.7
8775.800000	---	42.60	54.00	11.40	V	5.4
8775.800000	52.95	---	74.00	21.05	H	5.4
13025.800000	---	44.59	54.00	9.41	H	9.7
13025.800000	55.70	---	74.00	18.30	V	9.7
17765.400000	---	44.76	54.00	9.24	H	11.8
17765.400000	56.79	---	74.00	17.21	V	11.8

802.11n-HT20 Mode :

Low Channel: 2412MHz

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11n20 mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

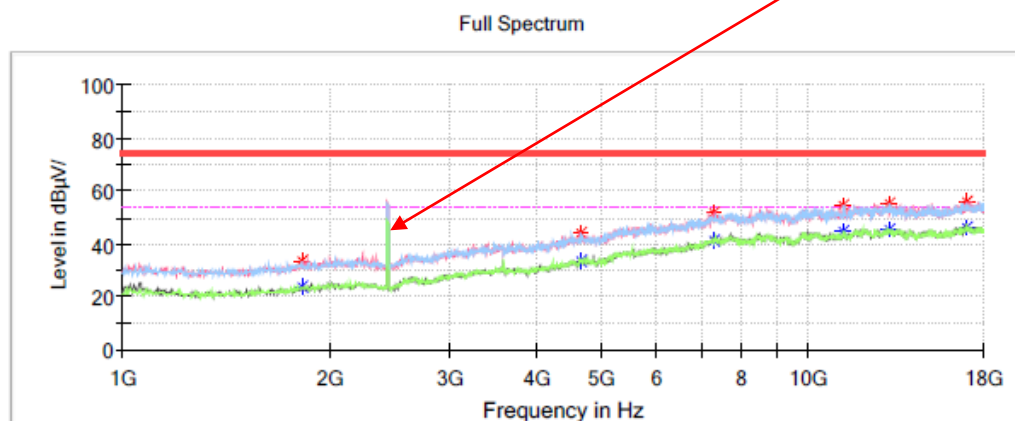
Fundamental Test with
Band Reject Filter**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1506.600000	---	20.68	54.00	33.32	V	-14.7
1506.600000	30.95	---	74.00	43.05	H	-14.7
4825.000000	---	35.60	54.00	18.40	H	-3.1
4825.000000	46.15	---	74.00	27.85	H	-3.1
7538.200000	---	41.09	54.00	12.91	H	3.9
7538.200000	51.01	---	74.00	22.99	V	3.9
14028.800000	---	43.82	54.00	10.18	H	9.8
14028.800000	54.66	---	74.00	19.34	V	9.8
17075.200000	54.62	---	74.00	19.38	V	12.2
17075.200000	---	46.37	54.00	7.63	V	12.2
17112.600000	56.00	---	74.00	18.00	V	12.1
17112.600000	---	44.87	54.00	9.13	V	12.1

Middle Channel: 2437MHz**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11n20 mode Middle channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

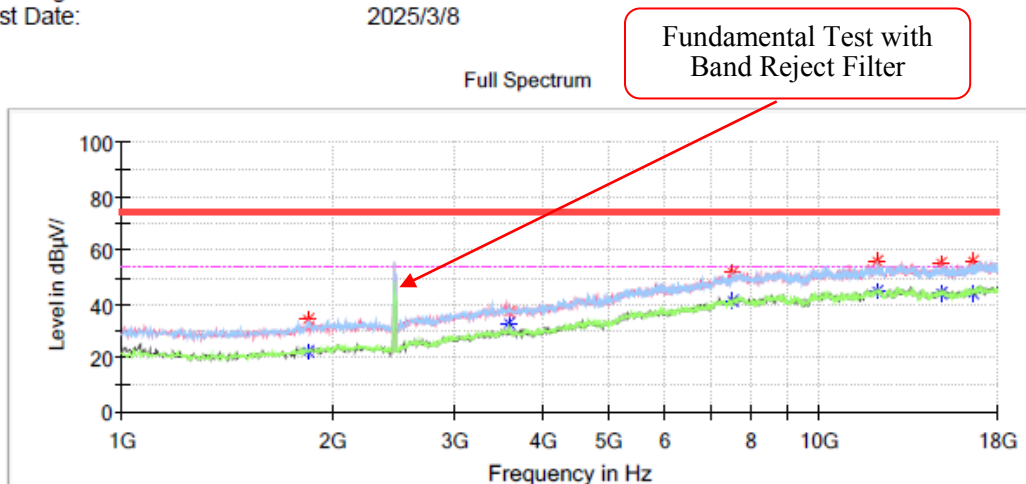
Fundamental Test with
Band Reject Filter

**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)
1826.200000	---	23.77	54.00	30.23	H	-12.8
1826.200000	33.88	---	74.00	40.12	H	-12.8
4648.200000	---	33.41	54.00	20.59	V	-3.7
4648.200000	43.75	---	74.00	30.25	H	-3.7
7276.400000	---	41.42	54.00	12.58	V	3.3
7276.400000	51.79	---	74.00	22.21	V	3.3
11237.400000	---	44.83	54.00	9.17	H	8.0
11237.400000	54.53	---	74.00	19.47	V	8.0
13100.600000	---	45.44	54.00	8.56	H	9.7
13100.600000	55.33	---	74.00	18.67	H	9.7
17017.400000	56.07	---	74.00	17.93	V	12.3
17017.400000	---	46.16	54.00	7.84	V	12.3

High Channel: 2462MHz**Common Information**

Project No.: RSHA250211001
 EUT Model: TC120
 Test Mode: Transmitting in 802.11n20 mode High channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.3°C
 Humidity: 52%
 Atmospheric Pressure: 102.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/3/8

**Critical Freqs**

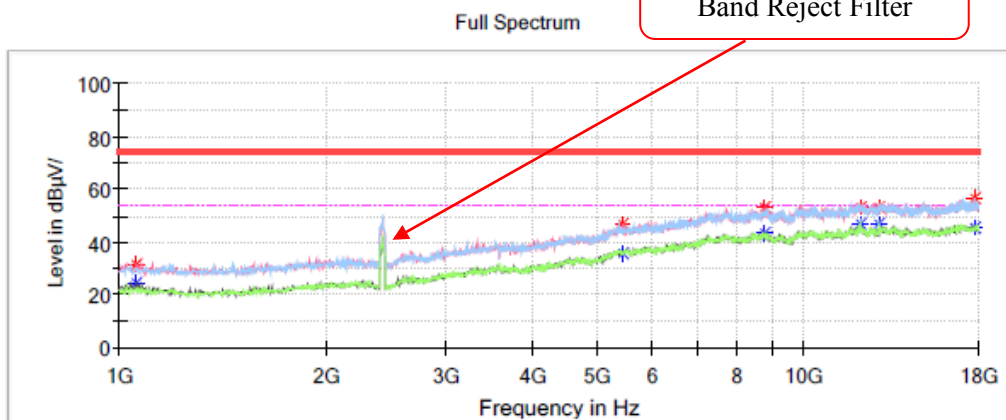
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1853.400000	---	22.69	54.00	31.31	V	-12.6
1853.400000	33.96	---	74.00	40.04	V	-12.6
3597.600000	36.72	---	74.00	37.28	H	-6.3
3597.600000	---	32.84	54.00	21.16	V	-6.3
7494.000000	51.63	---	74.00	22.37	H	3.9
7494.000000	---	41.43	54.00	12.57	H	3.9
12084.000000	---	44.90	54.00	9.10	H	9.1
12084.000000	55.78	---	74.00	18.22	H	9.1
14919.600000	---	44.15	54.00	9.85	H	9.3
14919.600000	55.32	---	74.00	18.68	V	9.3
16636.600000	---	44.19	54.00	9.81	H	11.2
16636.600000	55.64	---	74.00	18.36	V	11.2

802.11n-HT40 Mode :

Low Channel: 2422MHz

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11n40 mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8



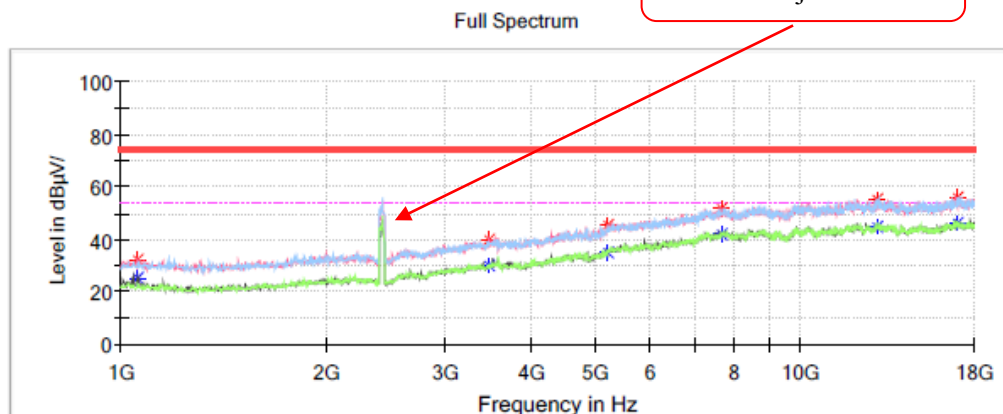
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1057.800000	---	24.64	54.00	29.36	V	-15.4
1057.800000	31.69	---	74.00	42.31	V	-15.4
5430.200000	---	35.78	54.00	18.22	V	-0.6
5430.200000	47.08	---	74.00	26.92	V	-0.6
8765.600000	---	43.50	54.00	10.50	H	5.4
8765.600000	53.01	---	74.00	20.99	V	5.4
12067.000000	---	46.62	54.00	7.38	H	9.1
12067.000000	52.89	---	74.00	21.11	H	9.1
12913.600000	53.00	---	74.00	21.00	V	9.7
12913.600000	---	46.53	54.00	7.47	H	9.7
17813.000000	---	45.35	54.00	8.65	H	11.8
17813.000000	56.71	---	74.00	17.29	H	11.8

Middle Channel: 2437MHz**Common Information**

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in 802.11n40 mode Middle channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

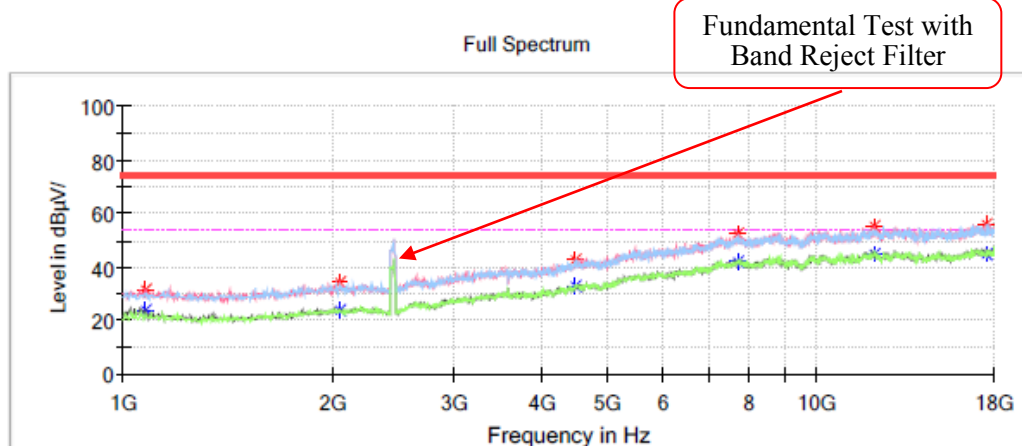
Fundamental Test with
Band Reject Filter

**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)
1054.400000	32.49	---	74.00	41.51	V	-15.4
1054.400000	---	24.94	54.00	29.06	V	-15.4
3488.800000	39.57	---	74.00	34.43	V	-6.4
3488.800000	---	29.81	54.00	24.19	V	-6.4
5202.400000	---	35.11	54.00	18.89	V	-1.6
5202.400000	45.44	---	74.00	28.56	H	-1.6
7653.800000	51.89	---	74.00	22.11	V	3.9
7653.800000	---	41.66	54.00	12.34	V	3.9
12930.600000	---	44.53	54.00	9.47	V	9.7
12930.600000	55.49	---	74.00	18.51	V	9.7
17048.000000	---	46.12	54.00	7.88	H	12.2
17048.000000	56.28	---	74.00	17.72	H	12.2

High Channel: 2452MHz**Common Information**

Project No.:	RSHA250211001
EUT Model:	TC120
Test Mode:	Transmitting in 802.11n40 mode High channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.3℃
Humidity:	52%
Atmospheric Pressure:	102.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/3/8

**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)
1074.800000	31.20	---	74.00	42.80	V	-15.4
1074.800000	---	23.91	54.00	30.09	V	-15.4
2054.000000	---	23.77	54.00	30.23	V	-11.6
2054.000000	34.12	---	74.00	39.88	V	-11.6
4485.000000	---	33.00	54.00	21.00	H	-4.3
4485.000000	42.45	---	74.00	31.55	H	-4.3
7708.200000	---	42.28	54.00	11.72	H	3.9
7708.200000	52.22	---	74.00	21.78	V	3.9
12128.200000	---	44.58	54.00	9.42	H	9.1
12128.200000	55.28	---	74.00	18.72	V	9.1
17530.800000	---	45.02	54.00	8.98	H	11.6
17530.800000	56.16	---	74.00	17.84	H	11.6

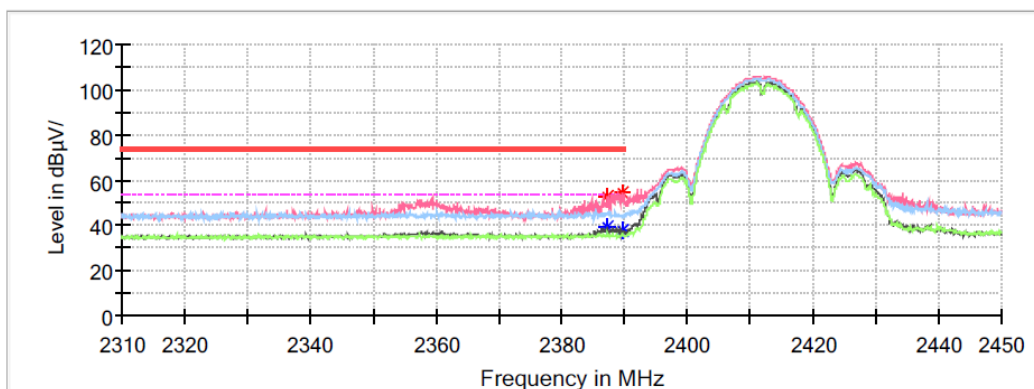
Band Edge:
802.11b Mode:

Low Channel

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: 2.4G WIFI 802.11b mode 2412 channel
Standard: FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum



Critical_Freqs

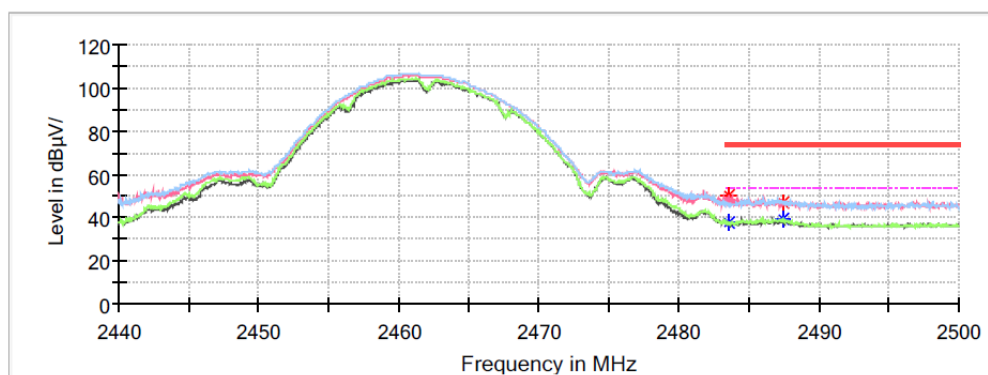
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2387.336000	---	39.07	54.00	14.93	V	-0.6
2387.336000	53.26	---	74.00	20.74	V	-0.6
2389.576000	---	37.55	54.00	16.45	V	-0.6
2389.576000	54.26	---	74.00	19.74	V	-0.6

High Channel

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: 2.4G WIFI 802.11b mode 2462 channel
Standard: FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum



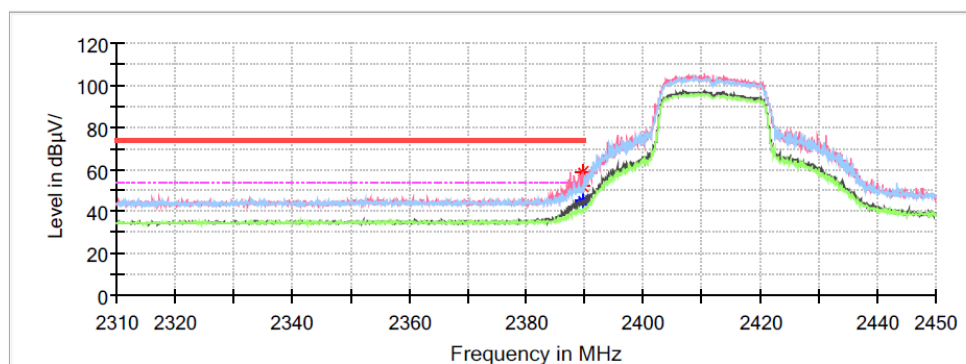
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.632000	50.36	---	74.00	23.64	V	-0.3
2483.632000	---	37.69	54.00	16.31	H	-0.3
2487.400000	47.32	---	74.00	26.68	H	-0.2
2487.400000	---	39.38	54.00	14.62	H	-0.2

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

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: 2.4G WIFI 802.11g mode 2412 channel
Standard: FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum

**Critical Freqs**

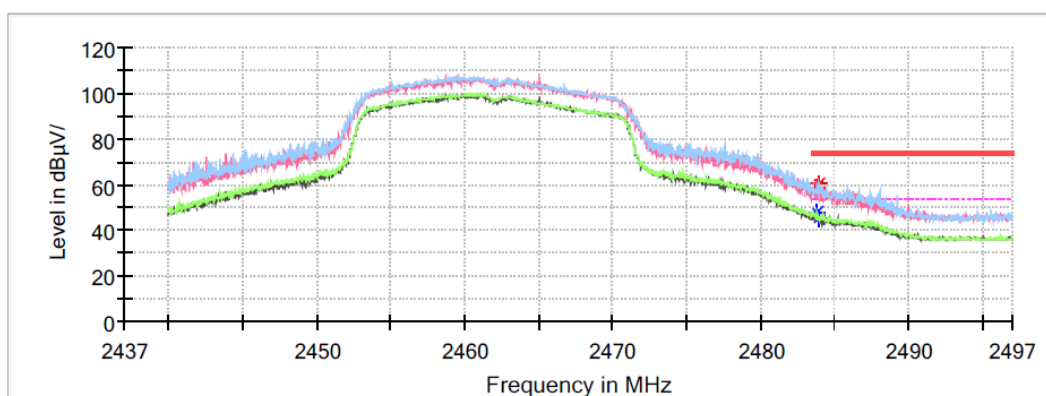
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.744000	---	45.15	54.00	8.85	V	-0.6
2389.744000	52.06	---	74.00	21.94	V	-0.6
2389.800000	---	44.60	54.00	9.40	V	-0.6
2389.800000	59.06	---	74.00	14.94	V	-0.6

High Channel

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: 2.4G WIFI 802.11g mode 2462 channel
Standard: FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

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)
2483.872000	---	47.98	54.00	6.02	H	-0.3
2483.872000	59.02	---	74.00	14.98	H	-0.3
2483.992000	---	45.61	54.00	8.39	H	-0.3
2483.992000	60.47	---	74.00	13.53	H	-0.3

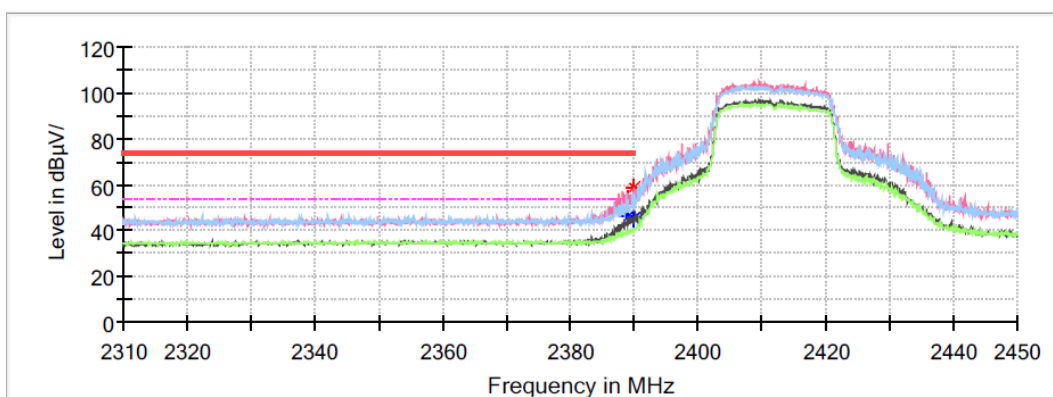
802.11n-HT20 Mode:

Low Channel

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: 2.4G WIFI 802.11n20 mode 2412 channel
Standard: FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum



Critical_Freqs

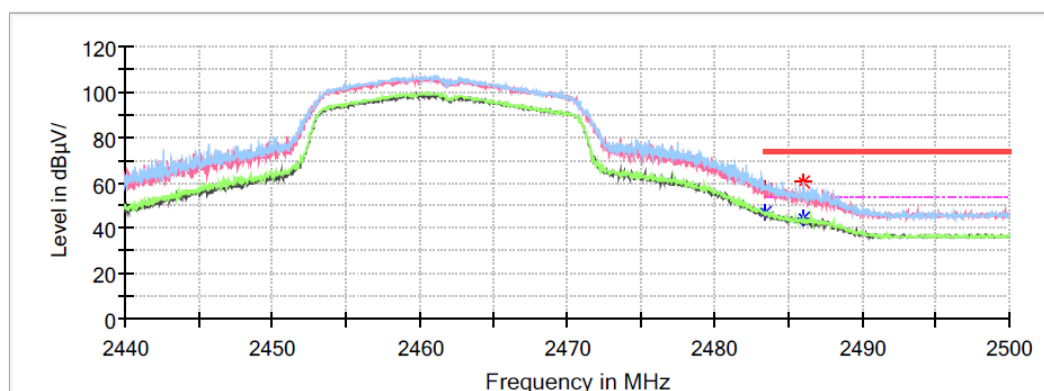
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.128000	---	45.76	54.00	8.24	V	-0.6
2389.128000	53.59	---	74.00	20.41	V	-0.6
2389.968000	---	44.97	54.00	9.03	V	-0.6
2389.968000	58.94	---	74.00	15.06	V	-0.6

High Channel

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: 2.4G WIFI 802.11n20 mode 2462 channel
Standard: FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

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	---	47.10	54.00	6.90	H	-0.3
2483.512000	57.13	---	74.00	16.87	H	-0.3
2486.080000	---	44.48	54.00	9.52	H	-0.2
2486.080000	60.41	---	74.00	13.59	H	-0.2

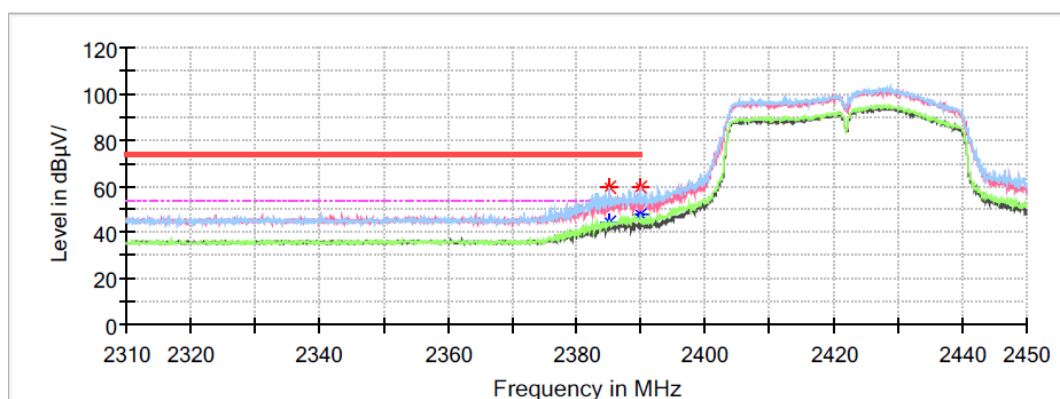
802.11n-HT40 Mode:

Low Channel

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: 2.4G WIFI 802.11n40 mode 2422 channel
Standard: FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

Full Spectrum



Critical_Freqs

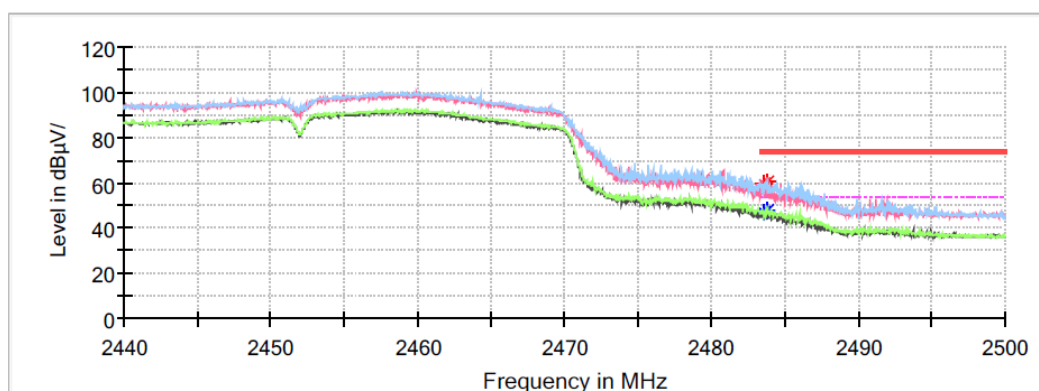
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2385.208000	59.69	---	74.00	14.31	H	-0.6
2385.208000	---	44.77	54.00	9.23	H	-0.6
2389.968000	59.37	---	74.00	14.63	H	-0.6
2389.968000	---	47.52	54.00	6.48	H	-0.6

High Channel

Common Information

Project No.: RSHA250211001
EUT Model: TC120
Test Mode: 2.4G WIFI 802.11n40 mode 2452 channel
Standard: FCC Part 15.247& FCC Part 15.205&FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.3°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/3/8

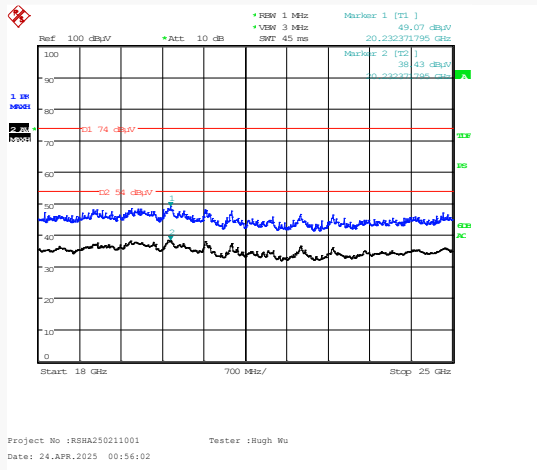
Full Spectrum



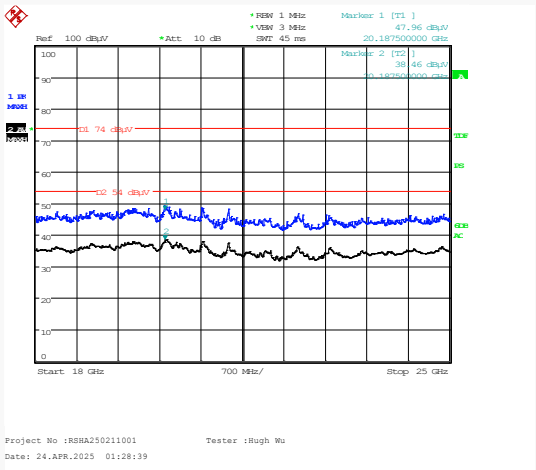
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.584000	---	46.58	54.00	7.42	H	-0.3
2483.584000	59.77	---	74.00	14.23	H	-0.3
2483.776000	---	47.93	54.00	6.07	H	-0.3
2483.776000	60.34	---	74.00	13.66	H	-0.3

18GHz-25GHz:
Transmitting in maximum output power mode 802.11n20 mode high channel
Horizontal



Vertical



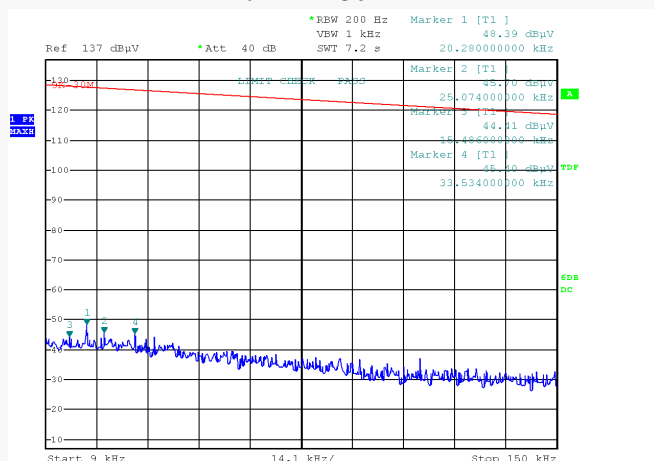
Frequency (GHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.19	---	38.46	54	15.54	V	12.45
20.19	47.96	---	74	26.04	V	12.45
20.23	---	38.43	54	15.57	H	12.49
20.23	49.07	---	74	24.93	H	12.49

Note: The test distance is 3m. The limit is 74dBμV/m(Peak) and 54dBμV/m(Average).

For BLE Mode:

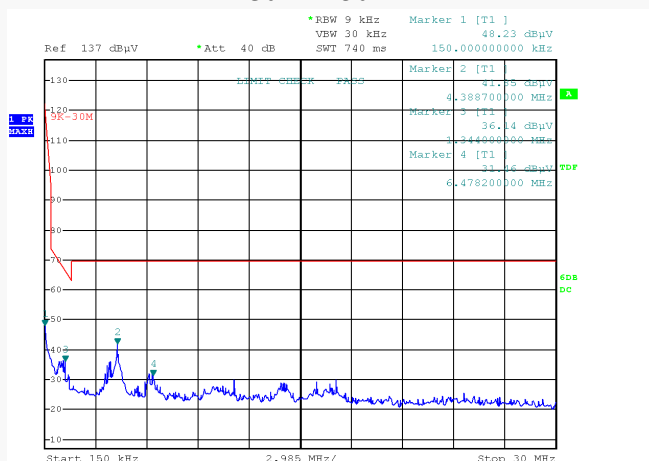
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

**9 kHz-30MHz: Transmitting in maximum output power mode BLE (1 Mbps) middle channel
Parallel(worst case)**

9kHz-150kHz

Project No.RSHA250211001
Date: 7.APR.2025 17:08:28

Tester:Jerry Yan

150kHz-30MHz

Project No.RSHA250211001
Date: 7.APR.2025 17:12:47

Tester:Jerry Yan

9 kHz-150 kHz

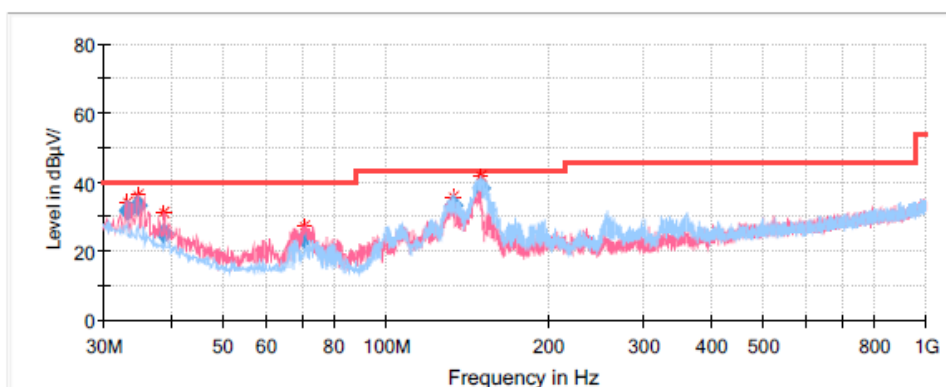
Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
15.49	44.41	PK	-0.54	123.80	79.39
20.28	48.39	PK	-0.56	121.46	73.07
25.07	45.70	PK	-0.59	119.62	73.92
33.53	45.40	PK	-1.18	117.10	71.70

150 kHz-30 MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15	48.23	PK	-11.34	104.08	55.85
1.34	36.14	PK	-28.73	65.06	28.92
4.39	41.85	PK	-31.97	69.54	27.69
6.49	31.46	PK	-32.28	69.54	38.08

30 MHz - 1 GHz:**Low Channel: 2402 MHz****Common Information**

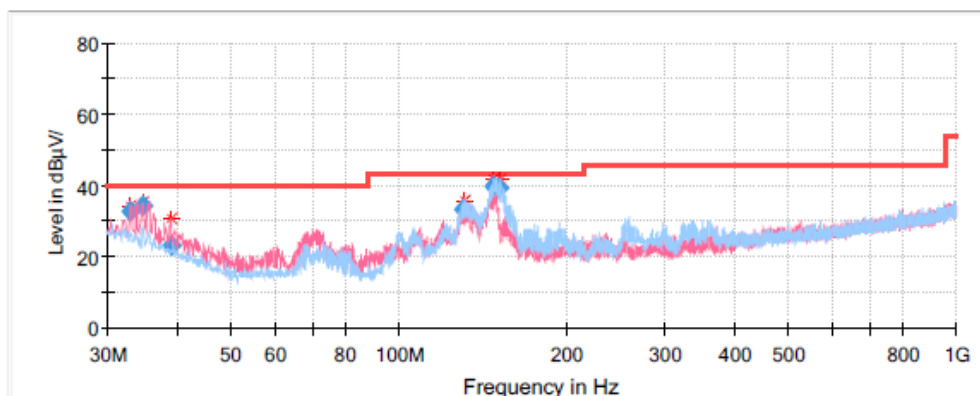
Project No:	RSHA250211001
EUT Model:	TC120
Test Mode:	Transmitting in BLE-1M mode low channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	18.3°C
Humidity:	39%
Barometric Pressure:	102.1 kPa
Test Engineer:	Jerry Yan
Test Date:	2025/4/1

**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
33.157000	31.68	40.00	8.32	V	-7.3
34.853000	33.25	40.00	6.75	V	-7.8
38.851550	25.38	40.00	14.62	V	-10.6
70.495900	23.85	40.00	16.15	V	-16.5
132.820200	33.26	43.50	10.24	H	-11.1
149.471500	38.35	43.50	5.15	H	-11.6

Middle Channel: 2440 MHz**Common Information**

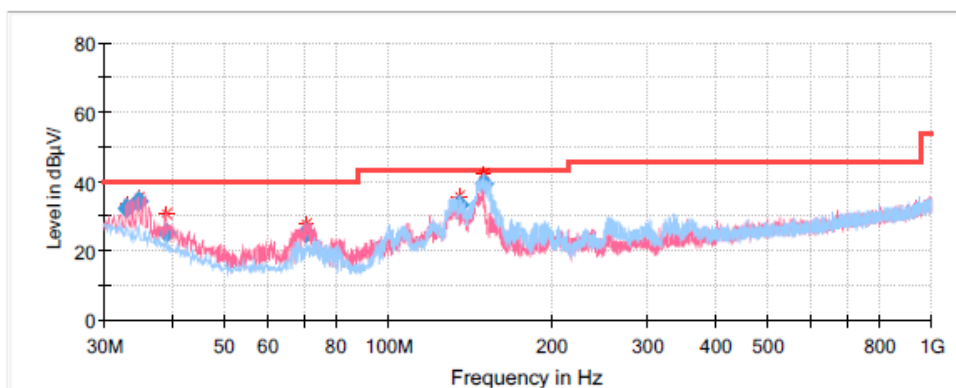
Project No: RSHA250211001
EUT Model: TC120
Test Mode: Transmitting in BLE-1M mode middle channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 18.3°C
Humidity: 39%
Barometric Pressure: 102.1 kPa
Test Engineer: Jerry Yan
Test Date: 2025/4/1

**Final Result**

Frequency (MHz)	QuasiPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
33.128450	32.73	40.00	7.27	V	-6.8
34.818850	34.05	40.00	5.95	V	-7.9
39.092450	23.09	40.00	16.91	V	-11.1
130.201700	33.00	43.50	10.50	H	-11.0
147.953100	39.50	43.50	4.00	H	-11.6
151.278550	39.25	43.50	4.25	H	-11.7

High Channel: 2480 MHz**Common Information**

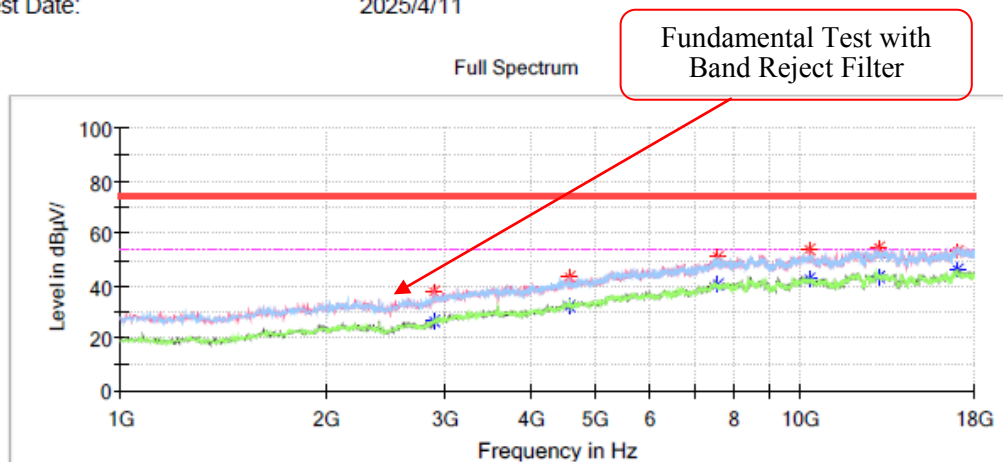
Project No:	RSHA250211001
EUT Model:	TC120
Test Mode:	Transmitting in BLE-1M mode high channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	18.3°C
Humidity:	39%
Barometric Pressure:	102.1kPa
Test Engineer:	Jerry Yan
Test Date:	2025/4/1

**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
33.130600	32.09	40.00	7.91	V	-6.8
34.820250	34.24	40.00	5.76	V	-7.9
39.092500	25.40	40.00	14.60	V	-10.6
70.466300	24.97	40.00	15.03	V	-16.6
135.245000	33.34	43.50	10.16	H	-11.1
150.451500	39.16	43.50	4.34	H	-11.7

1 GHz-18 GHz:**BLE (1 Mbps)****Low Channel: 2402 MHz****Common Information**

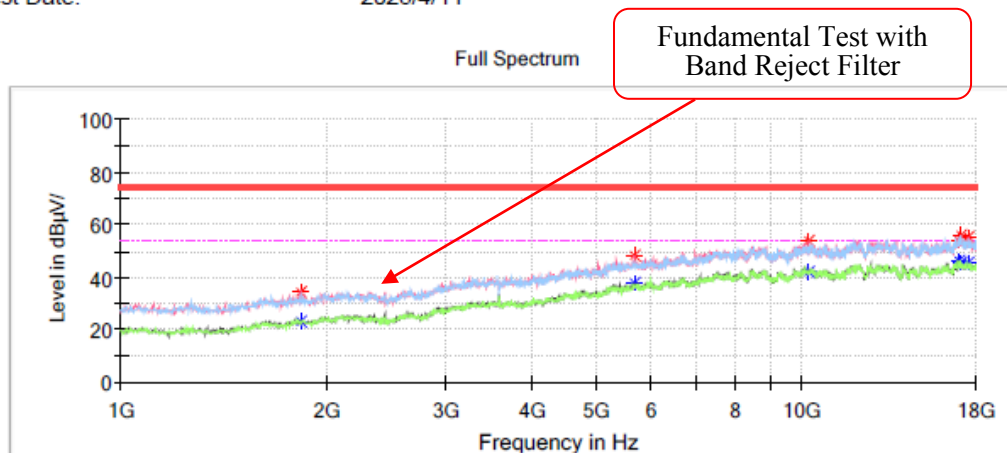
Project No:	RSHA250211001
EUT Model:	TC120
Test Mode:	BLE
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	24.1°C
Humidity:	46%
Atmospheric Pressure:	100.9kPa
Test Engineer:	Destine Hu
Test Date:	2025/4/11

**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)
2893.800000	---	26.52	54.00	27.48	H	-8.8
2893.800000	37.68	---	74.00	36.32	H	-8.8
4576.800000	---	32.39	54.00	21.61	V	-4.0
4576.800000	43.56	---	74.00	30.44	V	-4.0
7565.400000	---	40.81	54.00	13.19	H	3.9
7565.400000	51.20	---	74.00	22.80	H	3.9
10302.400000	---	42.52	54.00	11.48	V	7.1
10302.400000	53.71	---	74.00	20.29	V	7.1
13063.200000	54.65	---	74.00	19.35	V	9.7
13063.200000	---	43.32	54.00	10.68	V	9.7
17044.600000	---	46.18	54.00	7.82	H	12.2
17044.600000	53.08	---	74.00	20.92	H	12.2

Middle Channel: 2440 MHz**Common Information**

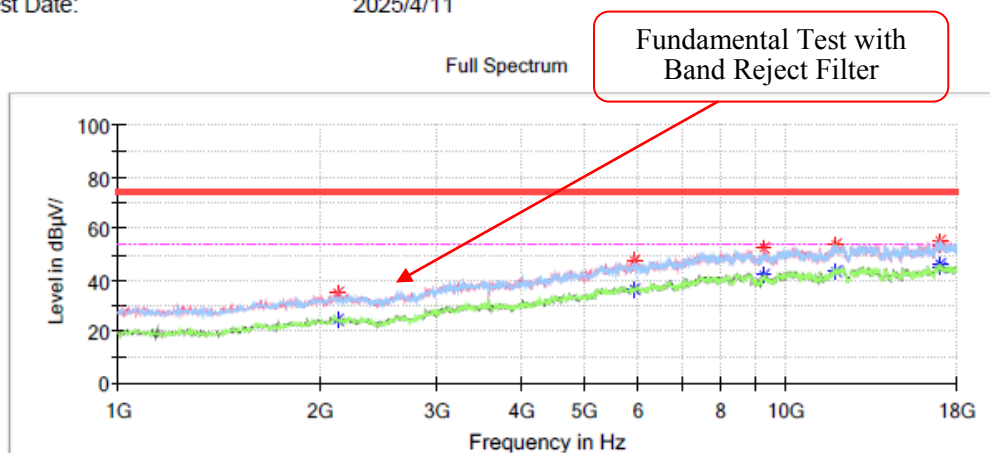
Project No: RSHA250211001
EUT Model: TC120
Test Mode: BLE
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 24.1°C
Humidity: 46%
Atmospheric Pressure: 100.9kPa
Test Engineer: Destine Hu
Test Date: 2025/4/11

**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)
1833.000000	---	22.99	54.00	31.01	V	-12.7
1833.000000	34.13	---	74.00	39.87	V	-12.7
5664.800000	---	37.64	54.00	16.36	V	-0.2
5664.800000	48.14	---	74.00	25.86	V	-0.2
10227.600000	---	42.25	54.00	11.75	V	7.1
10227.600000	53.62	---	74.00	20.38	V	7.1
17014.000000	53.56	---	74.00	20.44	V	12.3
17014.000000	---	46.24	54.00	7.76	V	12.3
17095.600000	55.61	---	74.00	18.39	H	12.1
17095.600000	---	45.40	54.00	8.60	H	12.1
17541.000000	---	45.47	54.00	8.53	H	11.6
17541.000000	55.09	---	74.00	18.91	H	11.6

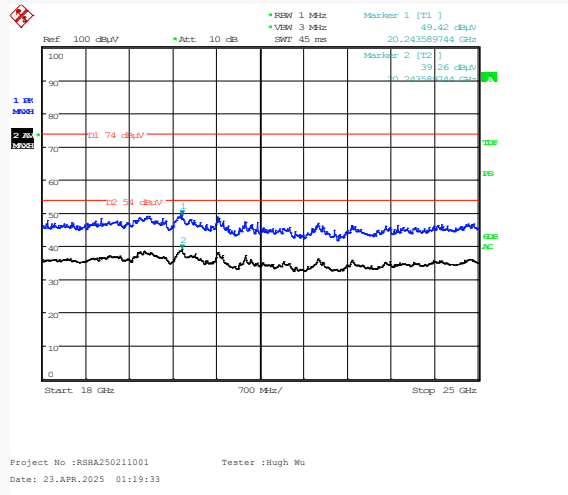
High Channel: 2480 MHz**Common Information**

Project No: RSHA250211001
EUT Model: TC120
Test Mode: BLE
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 24.1°C
Humidity: 46%
Atmospheric Pressure: 100.9kPa
Test Engineer: Destine Hu
Test Date: 2025/4/11

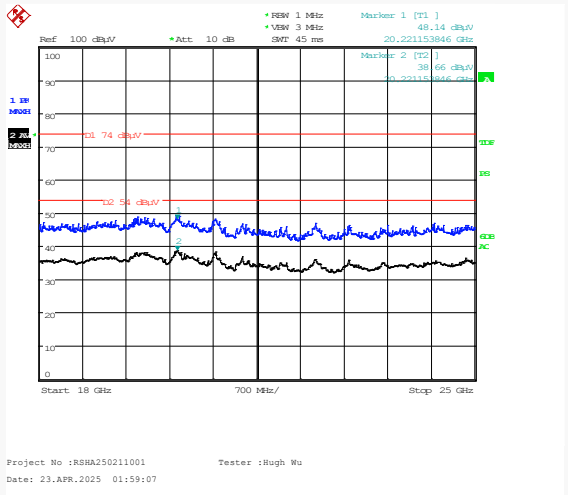
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2125.400000	---	24.67	54.00	29.33	V	-11.3
2125.400000	35.06	---	74.00	38.94	V	-11.3
5947.000000	---	36.29	54.00	17.71	H	0.0
5947.000000	47.36	---	74.00	26.64	H	0.0
9292.600000	---	41.61	54.00	12.39	V	5.4
9292.600000	52.70	---	74.00	21.30	V	5.4
11869.800000	---	43.14	54.00	10.86	V	8.9
11869.800000	53.92	---	74.00	20.08	V	8.9
16973.200000	55.04	---	74.00	18.96	H	12.2
16973.200000	---	44.96	54.00	9.04	H	12.2
17065.000000	53.08	---	74.00	20.92	H	12.2
17065.000000	---	46.16	54.00	7.84	H	12.2

18 GHz - 25 GHz :
Transmitting in maximum output power mode BLE (1 Mbps) middle channel
Horizontal



Vertical

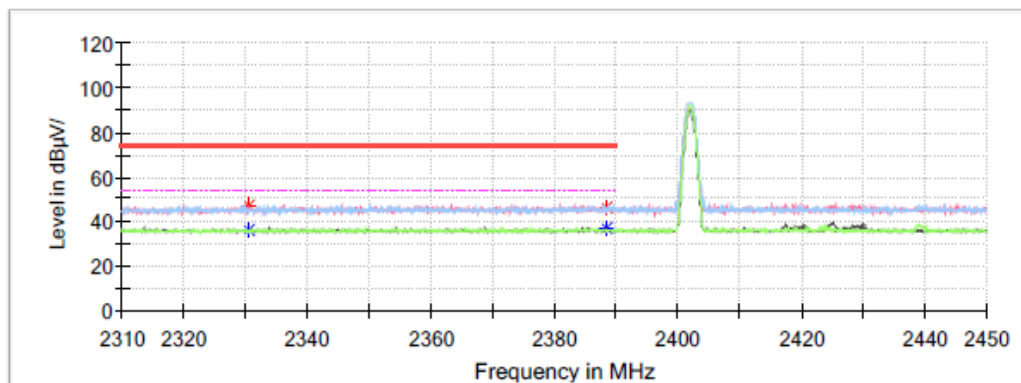


Frequency (GHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.22	---	38.66	54	15.34	V	12.48
20.22	48.14	---	74	25.86	V	12.48
20.24	---	39.26	54	14.74	H	12.5
20.24	49.42	---	74	24.58	H	12.5

Note: The test distance is 3m. The limit is 74dBμV/m(Peak) and 54dBμV/m(Average).

**RESTRICTED BANDS EMISSION:
BLE (1 Mbps)****Left Side****Common Information**

Project No: RSHA250211001
EUT Model: TC120
Test Mode: BLE
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 24.1°C
Humidity: 46%
Atmospheric Pressure: 100.9kPa
Test Engineer: Destine Hu
Test Date: 2025/4/11

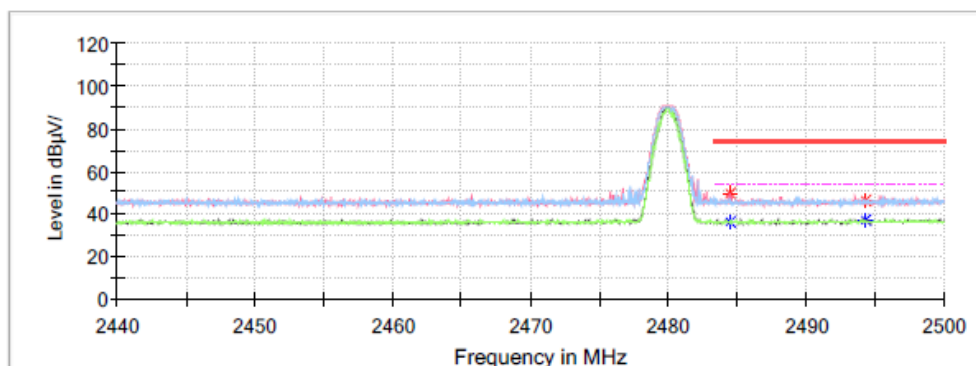
Full Spectrum**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2330.608000	47.25	---	74.00	26.75	V	-0.8
2330.608000	---	35.74	54.00	18.26	V	-0.8
2388.512000	46.08	---	74.00	27.92	V	-0.6
2388.512000	---	37.26	54.00	16.74	V	-0.6

Right Side**Common Information**

Project No: RSHA250211001
EUT Model: TC120
Test Mode: BLE
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 24.1℃
Humidity: 46%
Atmospheric Pressure: 100.9kPa
Test Engineer: Destine Hu
Test Date: 2025/4/11

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)
2484.424000	49.25	---	74.00	24.75	H	-0.3
2484.424000	---	36.46	54.00	17.54	H	-0.3
2494.312000	45.76	---	74.00	28.24	V	-0.2
2494.312000	---	37.26	54.00	16.74	V	-0.2

6 dB EMISSION BANDWIDTH**Environmental Conditions & Test Information**

Test Date:	2025-03-05
Temperature:	24 °C
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

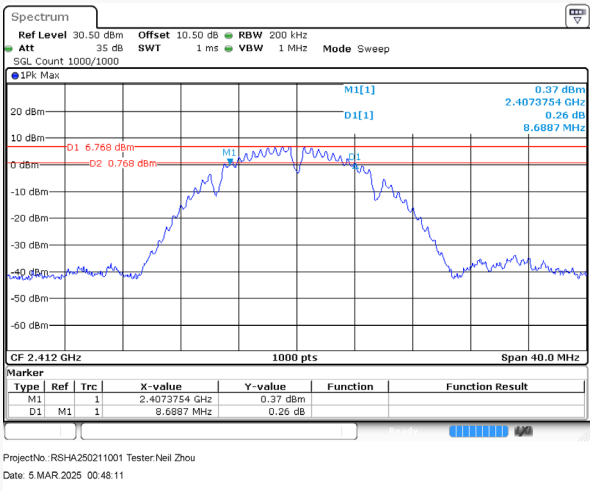
Test Result: Compliant.

EUT operation mode: Transmitting

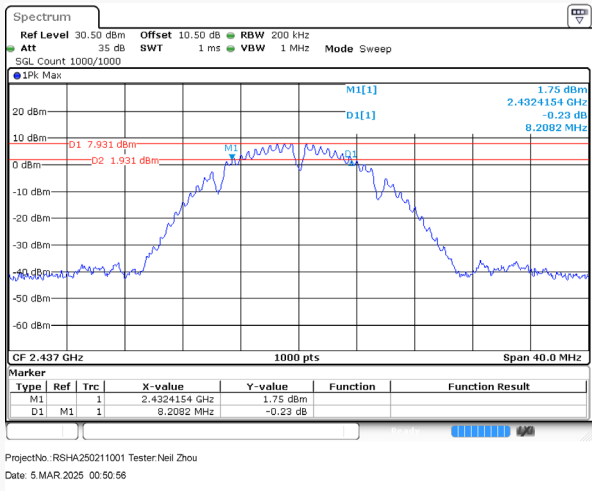
For Wi-Fi Mode:

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
802.11b Mode			
Low	2412	8.689	≥0.5
Middle	2437	8.208	≥0.5
High	2462	7.728	≥0.5
802.11g Mode			
Low	2412	15.856	≥0.5
Middle	2437	15.616	≥0.5
High	2462	15.536	≥0.5
802.11n-HT20 Mode			
Low	2412	17.057	≥0.5
Middle	2437	16.456	≥0.5
High	2462	15.215	≥0.5
802.11n-HT40 Mode			
Low	2422	35.235	≥0.5
Middle	2437	28.509	≥0.5
High	2452	35.796	≥0.5

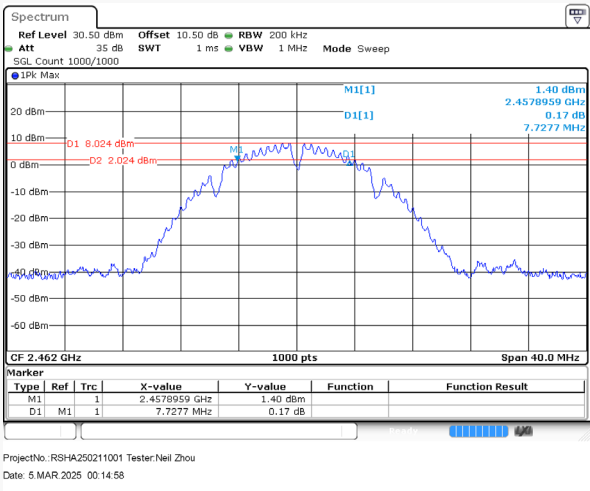
802.11b_2412MHz



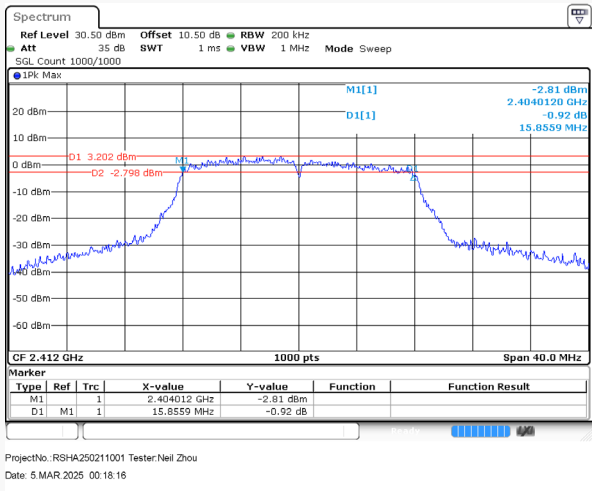
802.11b_2437MHz



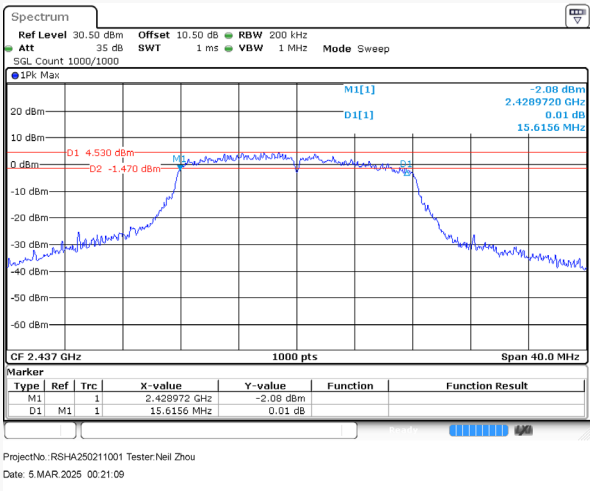
802.11b_2462MHz



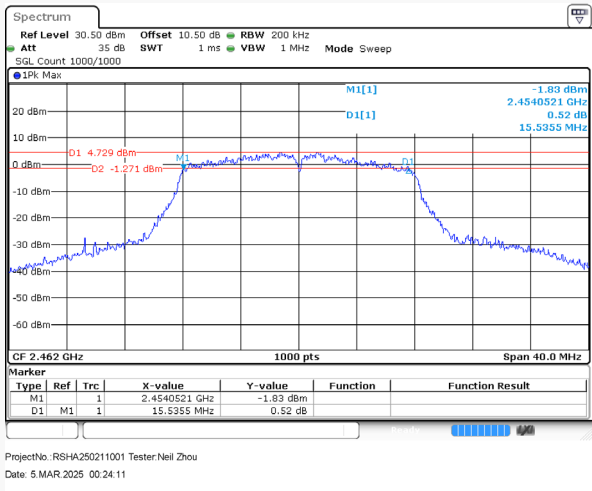
802.11g_2412MHz



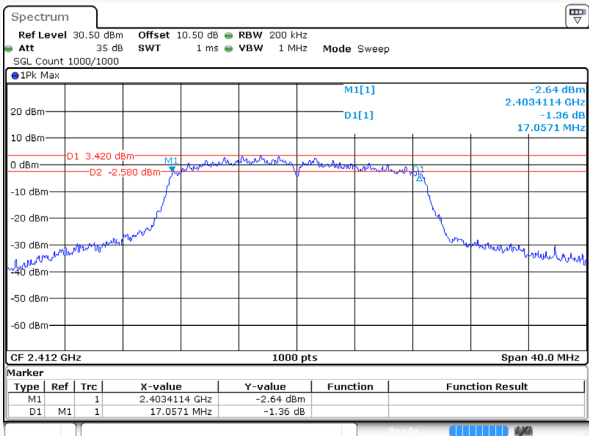
802.11g_2437MHz



802.11g_2462MHz

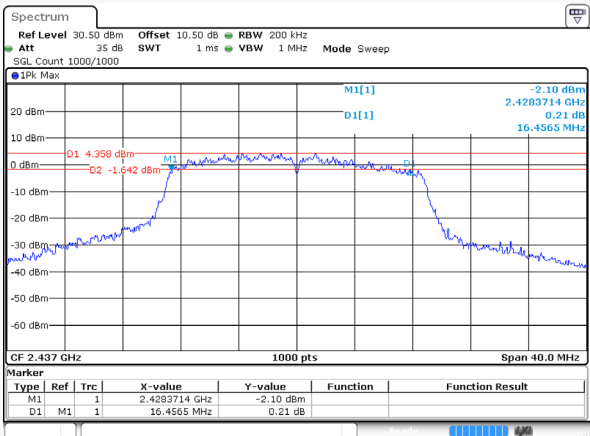


802.11n20_2412MHz



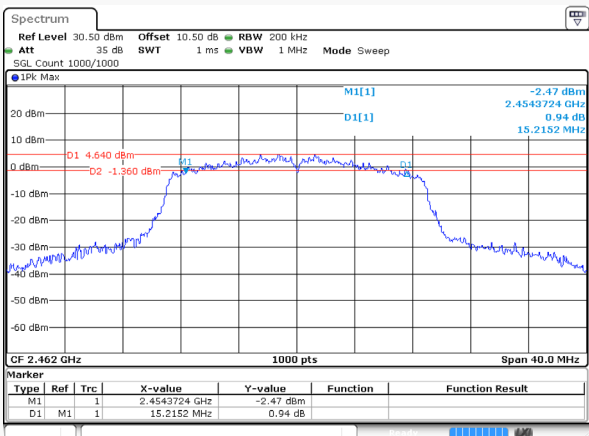
ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 5.MAR.2025 00:27:57

802.11n20_2437MHz



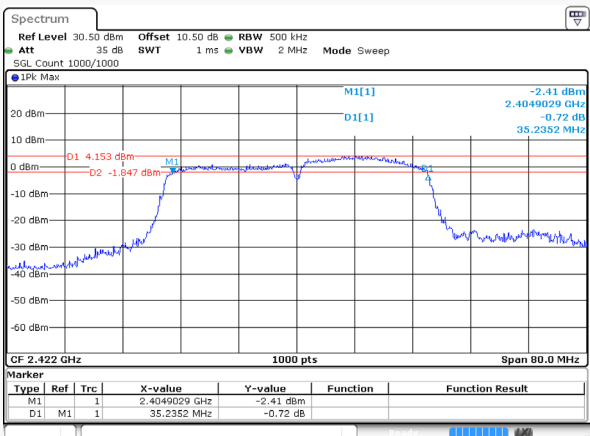
ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 5.MAR.2025 00:31:16

802.11n20_2462MHz



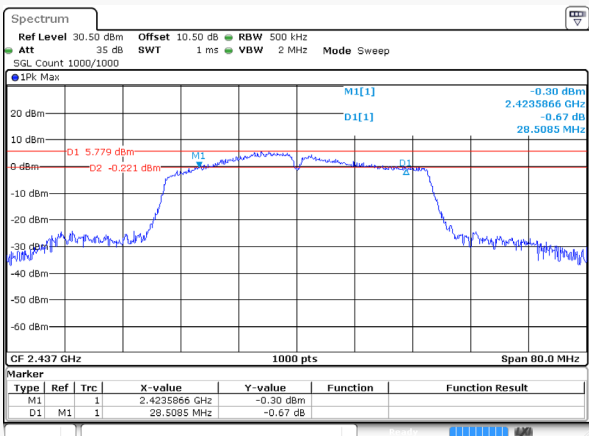
ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 5.MAR.2025 00:34:17

802.11n40_2422MHz



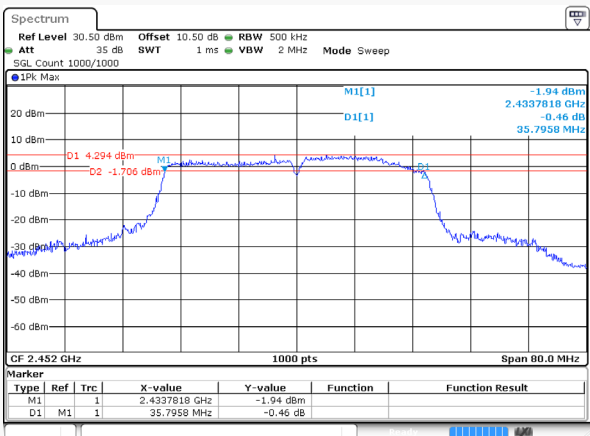
ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 5.MAR.2025 00:36:58

802.11n40_2437MHz



ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 5.MAR.2025 00:39:39

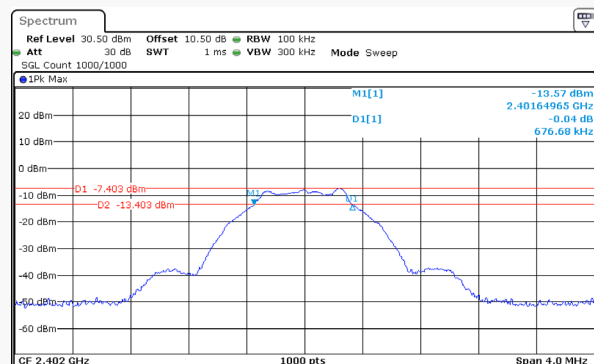
802.11n40_2452MHz



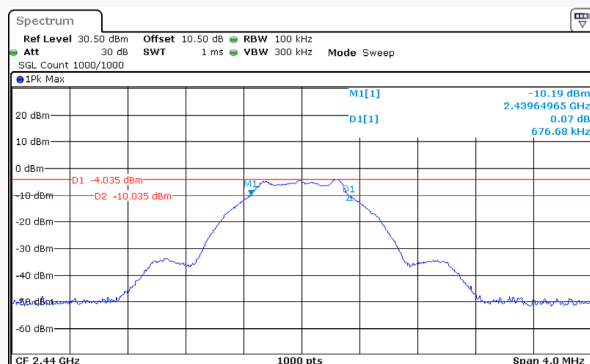
ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 5.MAR.2025 00:42:08

For BLE Mode:

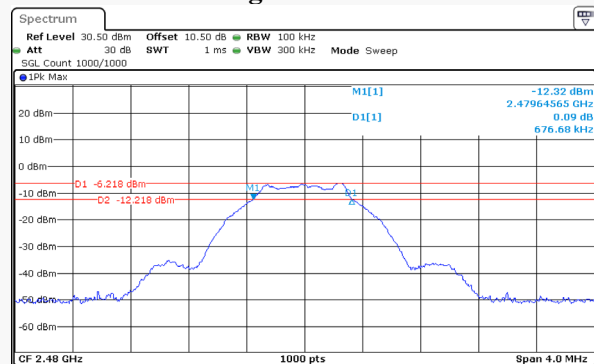
Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
BLE (1 Mbps)	Low	2402	0.677	≥ 0.5
	Middle	2440	0.677	≥ 0.5
	High	2480	0.677	≥ 0.5

Low Channel

ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 5.MAR.2025 01:18:52

Middle Channel

ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 5.MAR.2025 01:26:57

High Channel

ProjectNo: RSHA250211001 Tester:Neil Zhou
Date: 5.MAR.2025 01:31:32

OCCUPIED BANDWIDTH**Environmental Conditions & Test Information**

Test Date:	2025-03-05
Temperature:	24 °C
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

*EUT operation mode: Transmitting***For Wi-Fi Mode:**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
802.11b Mode		
Low	2412	13.04
Middle	2437	12.88
High	2462	12.72
802.11g Mode		
Low	2412	16.40
Middle	2437	16.36
High	2462	16.28
802.11n-HT20 mode		
Low	2412	17.52
Middle	2437	17.48
High	2462	17.40
802.11n-HT40 mode		
Low	2422	36.08
Middle	2437	35.92
High	2452	36.24