

FCC PART 15.247

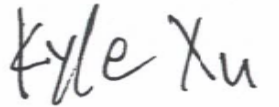
TEST REPORT

For

Feitian Technologies Co., Ltd.

Floor 17th, Tower B, Huizhi Mansion, No.9 Xueqing Road, Haidian District, Beijing, China

FCC ID: ZD3FTF600

Report Type: Original Report	Product Name: Android Payment PAD
Report Number: RKSA240906001-00D	
Report Date: 2025-01-17	
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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	RKSA240906001-00D	R1V1	2025-01-17	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Feitian Technologies Co., Ltd.
Tested Model	F600
Product Name	Android Payment PAD
Power Supply	DC 5V charging by adapter or DC 3.8V powered by battery
RF Function:	2.4G Wi-Fi; BLE
Maximum peak Output Power:	2.4G Wi-Fi: 802.11b: 15.026 dBm 802.11g: 16.626 dBm 802.11n20: 16.647 dBm 802.11n40: 18.347 dBm BLE(1Mbps): 5.44 dBm
Operating Band/Frequency:	2.4G Wi-Fi: 2412~2462 MHz(802.11b/g/n20), 2422~2452 MHz(802.11n40) BLE(1Mbps): 2402-2480 MHz
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: 1.72 dBi BLE: 1.72 dBi

Adapter Information:

Model: TEKA-UCA20US

Input: 100-240V, 50/60Hz, 0.35A Max

Output: 5.0V, 2.0A

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: RKSA240906001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2024-09-06.)

Objective

This report is prepared for *Feitian 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, 15.207, 15.209 and 15.247 rules.

Test Methodology

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

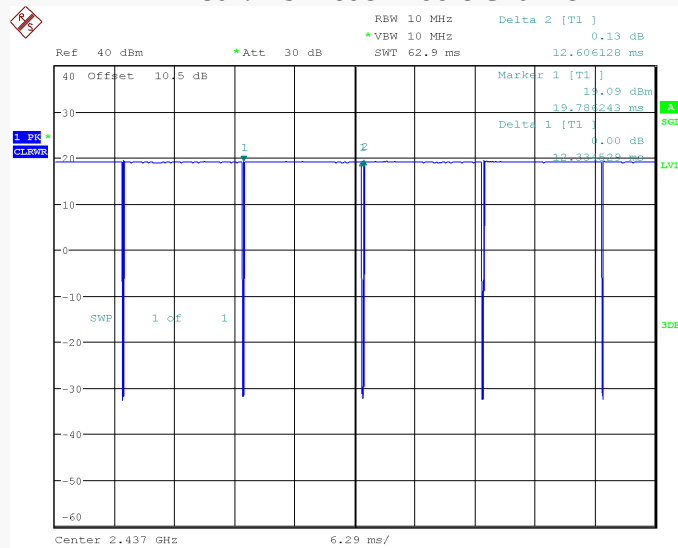
EUT Exercise Software

RF test software: QRCT 4

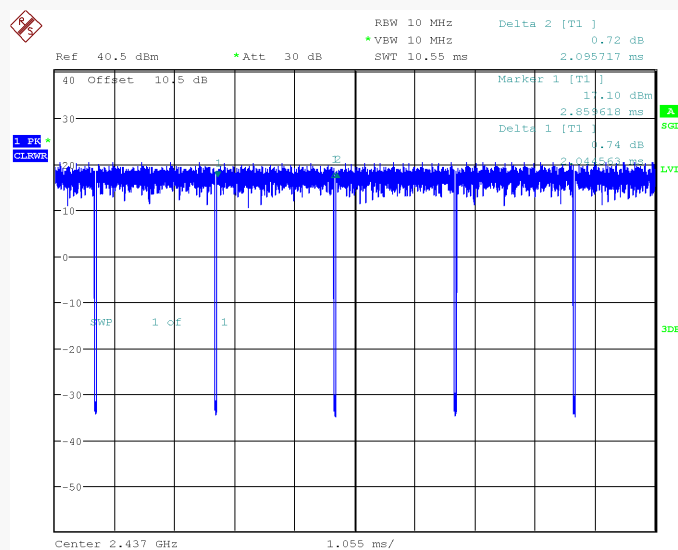
Pre-scan with all the data rates, and the worst case was performed as below:

Mode	Data Rate	★Power Level
802.11b	1 Mbps	18
802.11g	6 Mbps	18
802.11n-HT20	MCS0	18
802.11n-HT40	MCS0	18
BLE(1Mbps)	1Mbps	Default

Note: The power level was declared by the applicant.

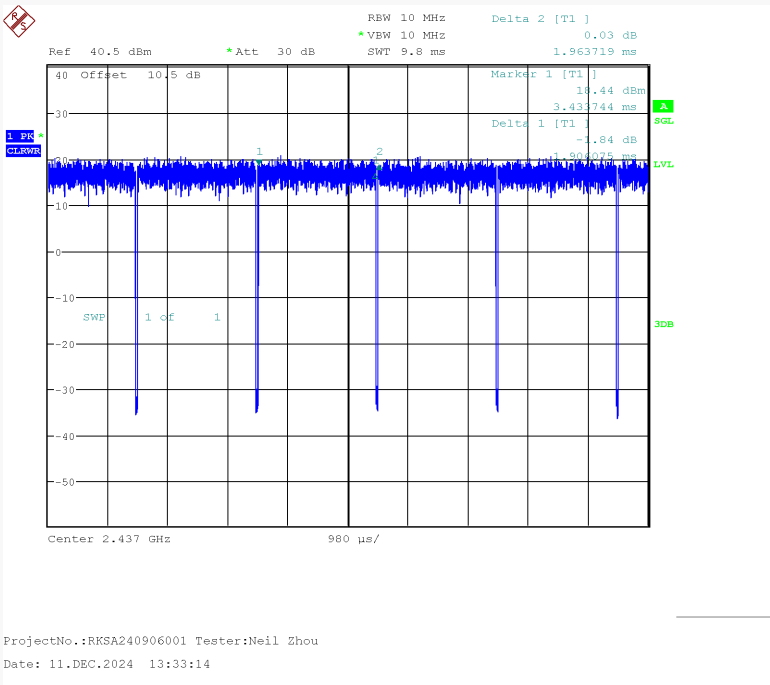
Duty Cycle:**802.11b Mode Middle Channel**

ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 11:33:59

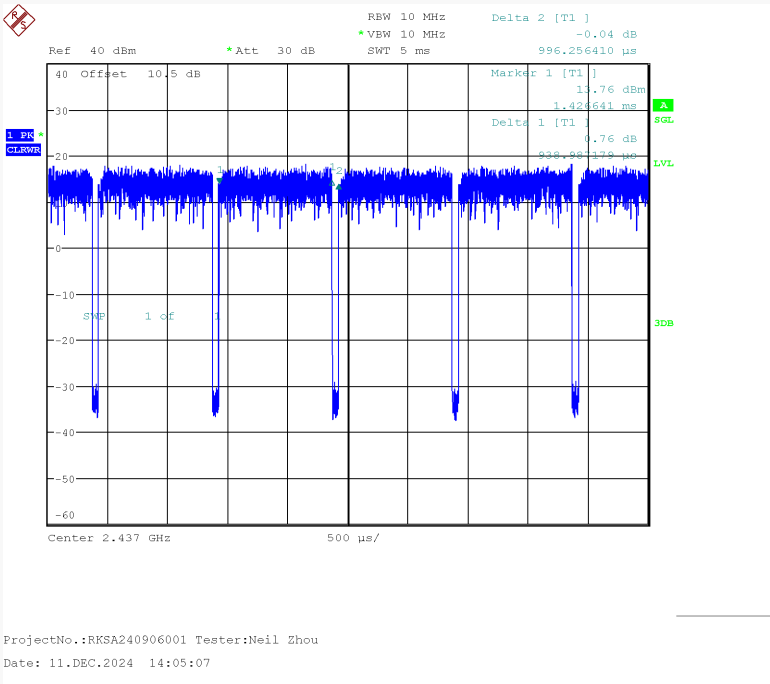
802.11g Mode Middle Channel

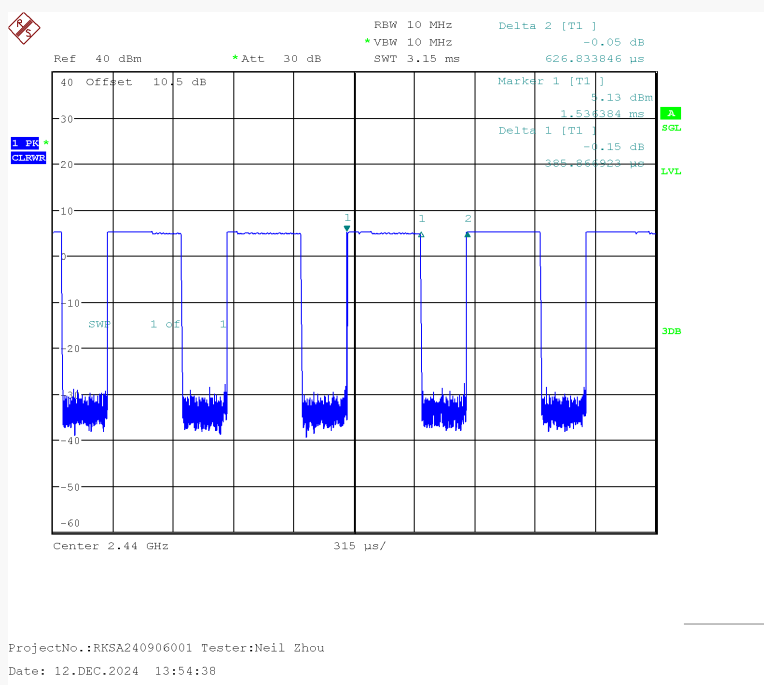
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:08:06

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)	10log(1/x)(dB)
802.11b	97.85	12.335	12.606	0.09
802.11g	97.57	2.045	2.096	0.11
802.11n-HT20	97.05	1.906	1.964	0.13
802.11n-HT40	94.28	0.939	0.996	0.26
BLE(1Mbps)	61.56	0.386	0.627	2.11

Note: “x” means the Duty Cycle.

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

Support Equipment List and Details

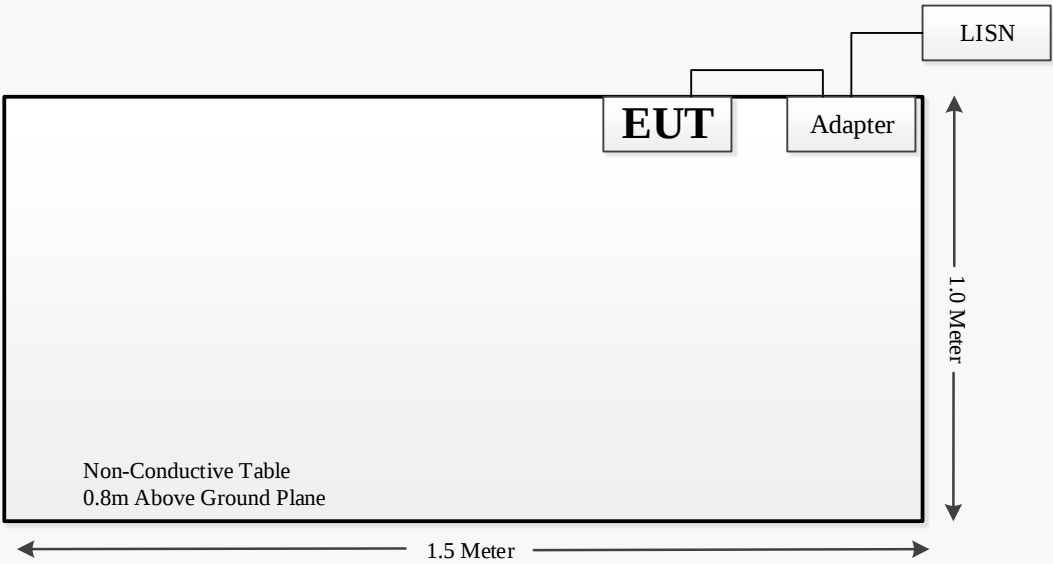
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

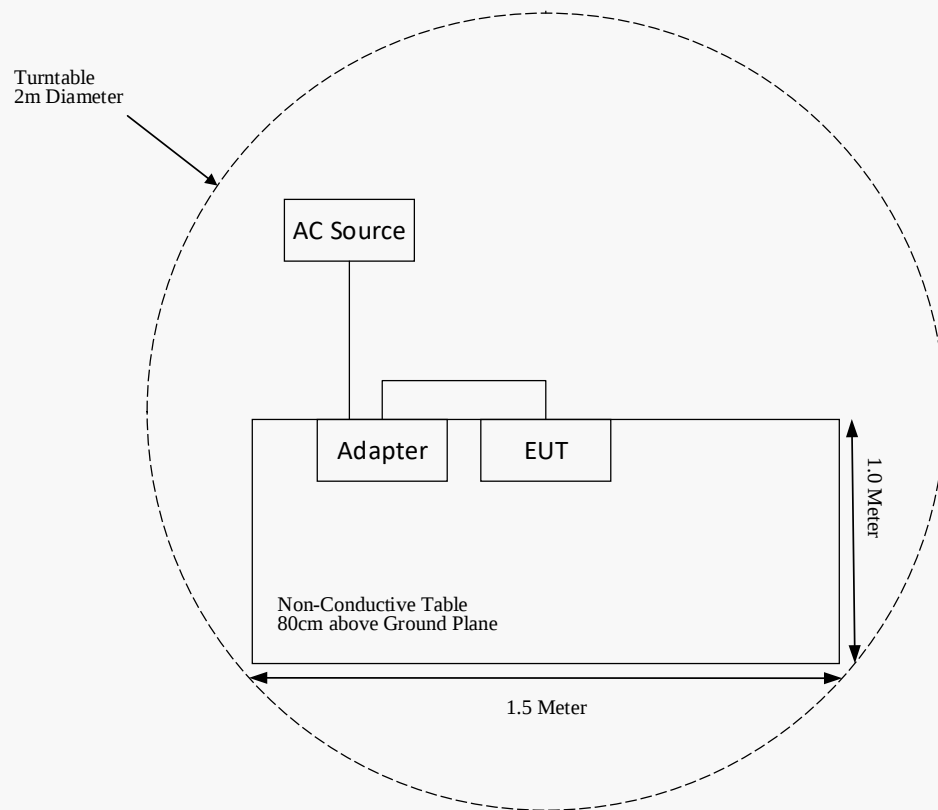
Cable Description	Length (m)	From Port	To
Power Cable 1	1.0	EUT	Adapter
Power Cable 2	1.0	Adapter	AC Source/LISN

Block Diagram of Test Setup

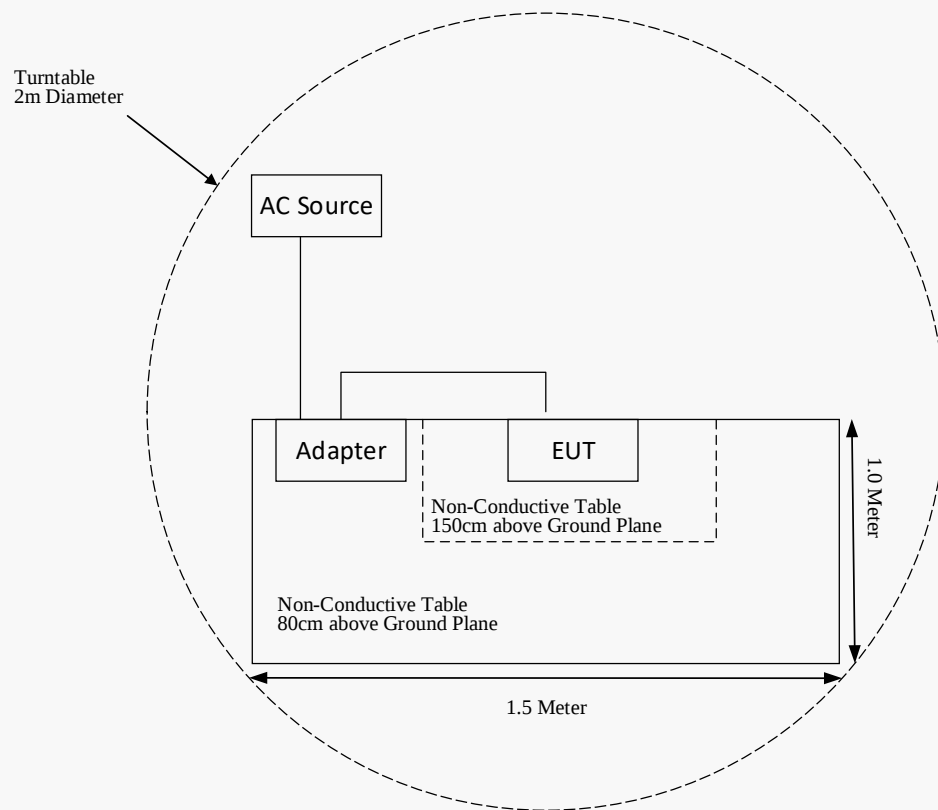
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1 GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§2.1093	RF EXPOSURE	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§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

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	2024-11-08	2027-11-07
ETS-LINDGREN	Loop Antenna	6512	108100	2024-11-03	2025-11-02
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	2024-04-25	2025-04-24
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	9207-3900	2024-11-03	2027-11-02
ETS-LINDGREN	Horn Antenna	3116	2516	2024-01-06	2025-01-05
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	BRC50719	G027	2024-04-25	2025-04-24
N/A	Attenuator	10 dB	N/A	2024-04-23	2025-04-22
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	2024-04-24	2025-04-23
Rohde & Schwarz	Signal Analyzer	FSV40-N	103298	2024-04-24	2025-04-23
Narda	Attenuator	10 dB	N/A	2024-04-23	2025-04-22
Anritsu	Power Sensor	MA24418A	12621	2024-04-23	2025-04-22
XHFDZ	RG178 Coaxial Cable	SMA-178	XHF-1102	Each time	N/A
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2024-04-23	2025-04-22
Rohde & Schwarz	LISN	ENV216	101115	2024-04-23	2025-04-22
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	100552	2024-04-24	2025-04-23
MICRO-COAX	Coaxial Cable	Cable-15	015	2024-04-23	2025-04-22

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 §1.1307(b) & §2.1093 – RF EXPOSURE

Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Result

BLE mode:

Mode	Frequency Range (MHz)	Max Tune-up Conducted Power		Calculated Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
		(dBm)	(mW)				
BLE	2402-2480	5.5	3.55	5.0	1.1	3.0	Yes

Result: So the standalone SAR evaluation is not necessary.

For **Wi-Fi mode**, please refer to the SAR report: RKSA240906001-20B.

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 a FPC for 2.4G Wi-Fi & BLE, which is permanently attached to the unit, fulfill the requirement of this section. Please refer to the EUT photos.

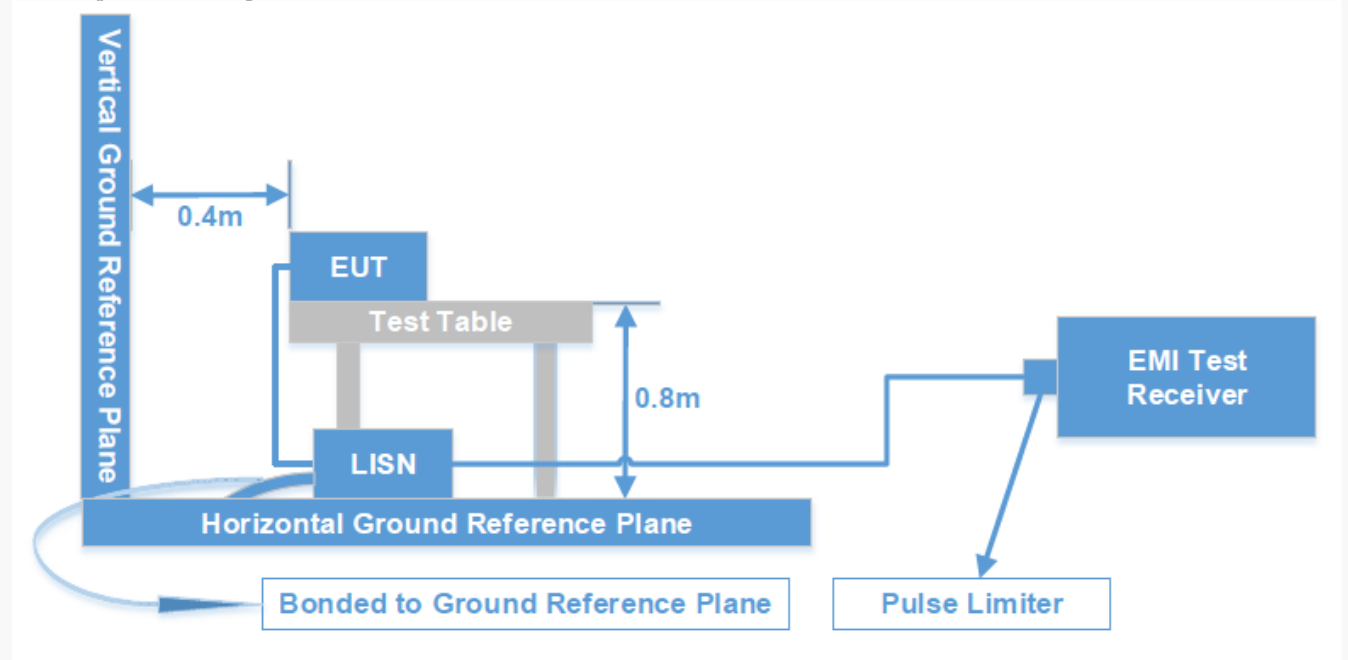
Result: Compliant.

FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Test System Setup



The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

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

Frequency Range	RBW	VBW
150 kHz - 30 MHz	9 kHz	30 kHz

Test Procedure

ANSI C63.10-2013 clause 6.2

During the conducted emission test, the EUT or adapter was connected to the outlet of the LISN.

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

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Level & Over Limit Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

Level (dBμV) = Read level (dBμV) + Factor (dB)

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

Over Limit (dB) = Level (dBμV) - Limit (dBμV)

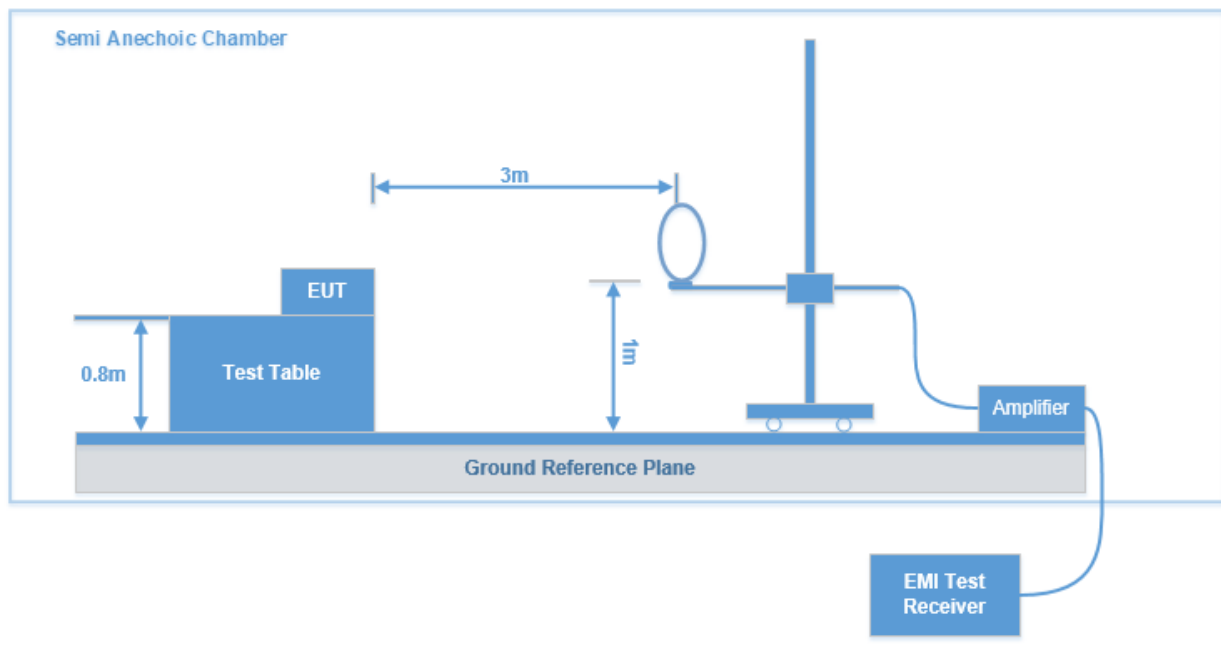
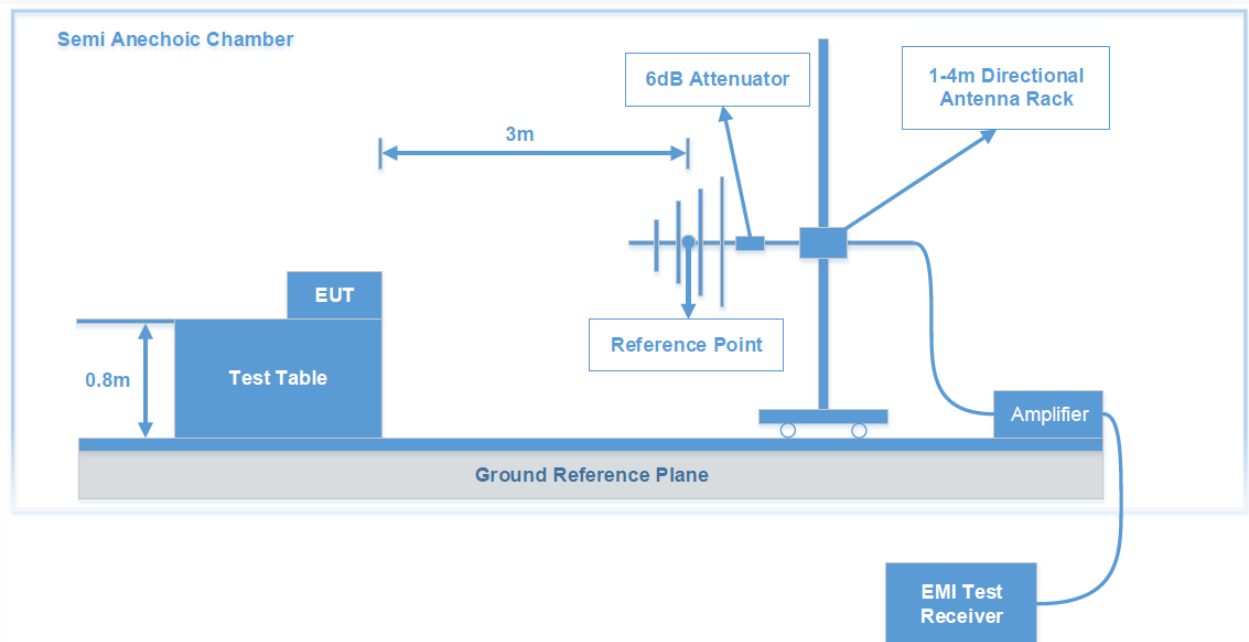
Test Results Summary

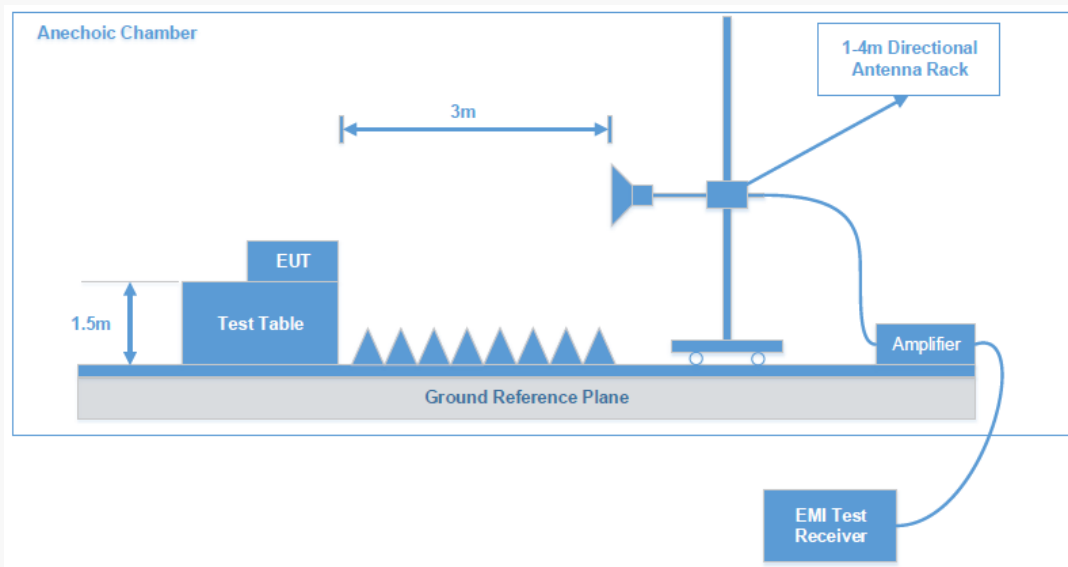
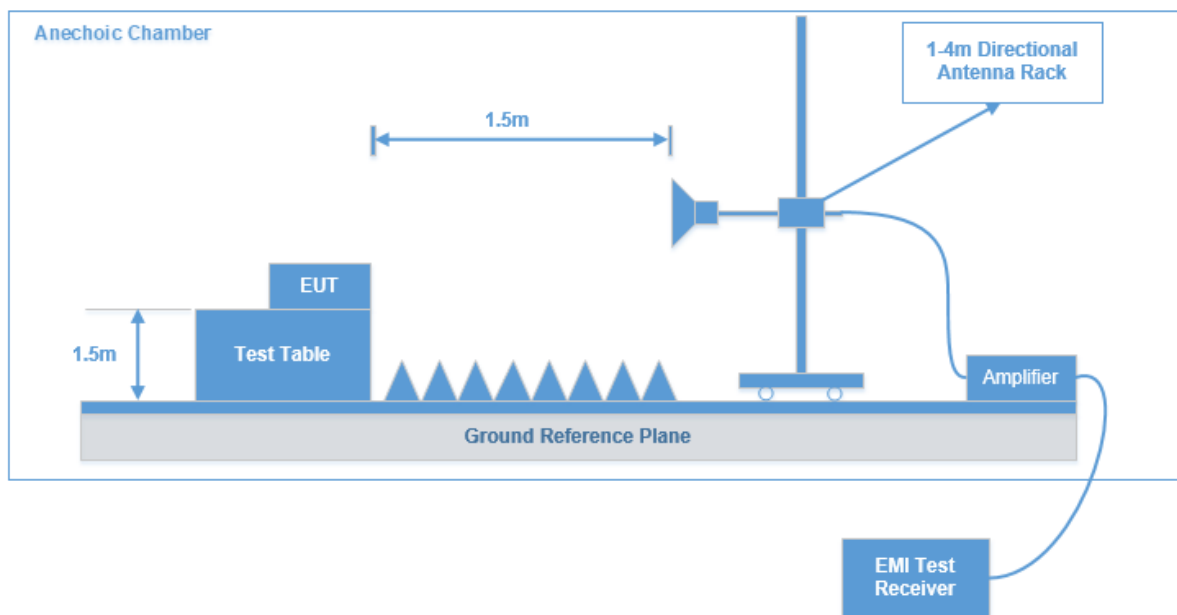
According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data: See Appendix

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 – 30 MHz:****30 MHz - 1 GHz:**

1 GHz-18 GHz:**18 GHz-25 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	Measurement
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

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.

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.

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.

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, Subpart C, section 15.205, 15.209 and 15.247.

Test Data: See Appendix

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

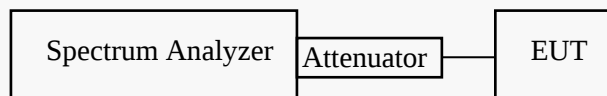
Applicable Standard

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.



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

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

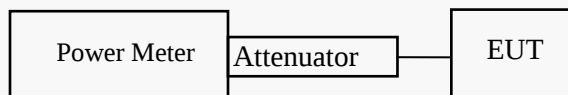
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

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.

11.9.2.3.2 Method AVGPM-G

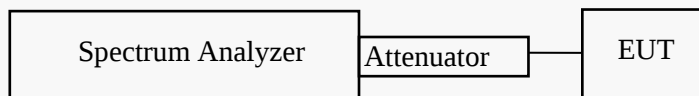
Method AVGPM-G is a measurement using a gated RF average power meter.

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:

1. Set the RBW $\geq$ DTS bandwidth.
2. Set VBW $\geq 3 * \text{RBW}$.
3. Set span $\geq 3 * \text{RBW}$
4. Sweep time = auto couple.
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. 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

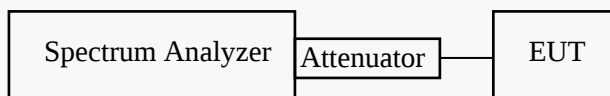
Applicable Standard

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 C63.10-2013 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.



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

Test Data: See Appendix

FCC §15.247(E) - POWER SPECTRAL DENSITY

Applicable Standard

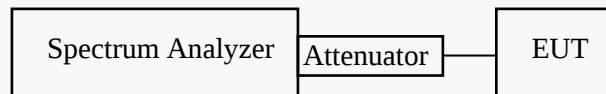
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of 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 C63.10-2013 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 $\geq 3 * \text{RBW}$.
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.



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

Test Data: See Appendix

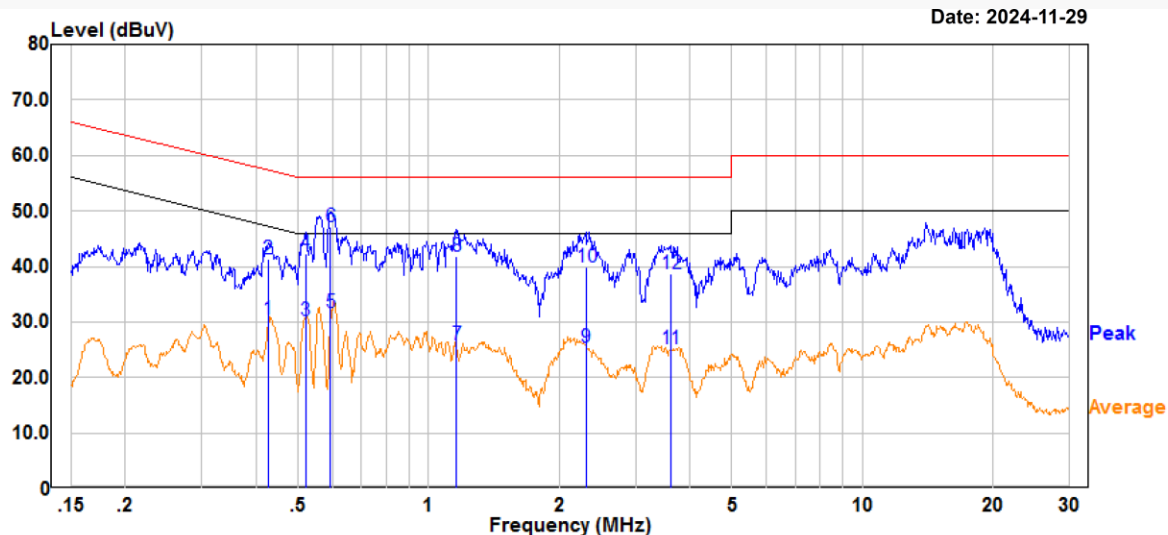
APPENDIX - TEST DATA

Environmental Conditions & Test Information

Test Item:	Duty Cycle	AC LINE CONDUCTED EMISSIONS	RADIATED EMISSIONS		
			9 kHz-30 MHz	30 MHz -1 GHz	1 GHz - 18 GHz
Test Date:	2024-12-11 to 2024-12-12	2024-11-29	2024-12-17	2024-12-02	2024-11-30
Temperature:	22-24 °C	17.3 °C	19 °C	16.8 °C	20.3 °C
Relative Humidity:	40-45 %	35 %	42 %	48 %	51 %
ATM Pressure:	101.2-101.6kPa	102.4 kPa	101.2 kPa	101.8 kPa	102.2kPa
Test Result:	/	Pass	Pass	Pass	Pass
Test Engineer:	Neil Zhou	Myles Miao	Jerry Yan	Jerry Yan	Destine Hu

Test Item:	RADIATED EMISSIONS	6 DB EMISSION BANDWIDTH	OCCUPIED BANDWIDTH
	18 GHZ -25 GHZ		
Test Date:	2024-12-06	2024-12-12&2025-01-17	2024-12-11 to 2024-12-12
Temperature:	22.5 °C	22.0-23 °C	22-24 °C
Relative Humidity:	45 %	40-44 %	40-45 %
ATM Pressure:	100.9 kPa	101.2-102.8kPa	101.2-101.6kPa
Test Result:	Pass	Pass	Pass
Test Engineer:	Hugh Wu	Neil Zhou	Neil Zhou

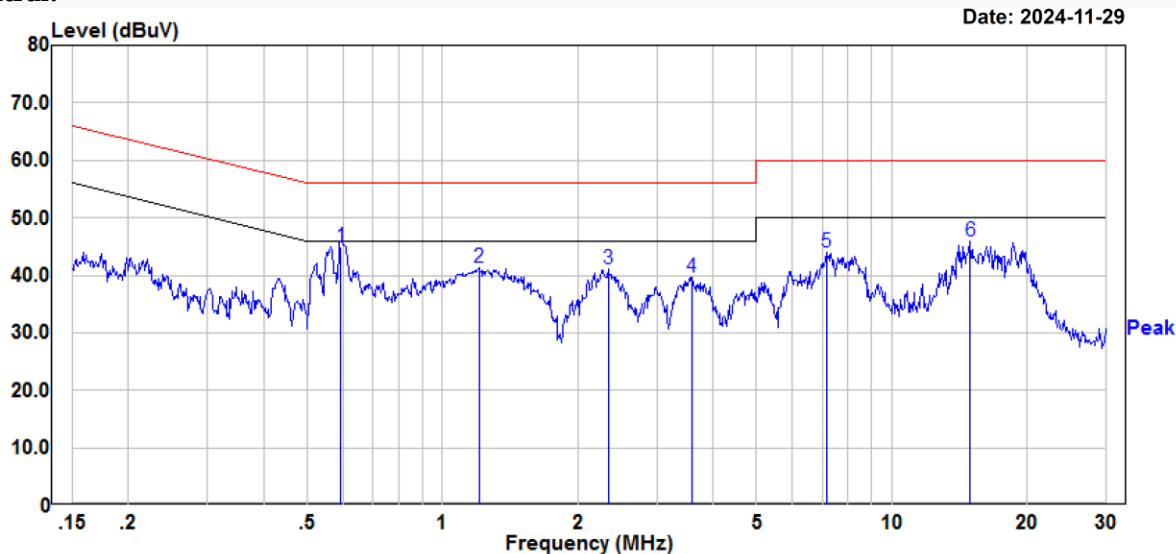
Test Item:	POWER SPECTRAL DENSITY	TRANSMITTER OUTPUT POWER MEASUREMENT	OUT OF BAND EMISSIONS
Test Date:	2024-12-11 to 2024-12-12	2024-12-12	2024-12-11 to 2024-12-12
Temperature:	22-24 °C	22.0 °C	22-24 °C
Relative Humidity:	40-45 %	40 %	40-45 %
ATM Pressure:	101.2-101.6kPa	101.2kPa	101.2-101.6kPa
Test Result:	Pass	Pass	Pass
Test Engineer:	Neil Zhou	Loki Shi	Neil Zhou

AC LINE CONDUCTED EMISSIONS**For Wi-Fi Mode:***EUT operation mode: Transmitting in maximum output power mode 802.11n-HT40 mode Middle channel***Line:****Trace: 1**

Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSA240906001
Model : F600
Phase : L
Voltage : 120V/60Hz
Mode : 2.4G WIFI
Test Equipment : ENV216,ESR
Receiver Setting : RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature : 17.3℃
Humidity : 35%
Atmospheric pressure: 102.4kPa
Test Engineer : Myles Miao

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.427	10.20	20.22	30.42	47.31	-16.89	Average
2	0.427	21.20	20.22	41.42	57.31	-15.89	QP
3	0.522	10.20	20.12	30.32	46.00	-15.68	Average
4	0.522	22.10	20.12	42.22	56.00	-13.78	QP
5	0.594	11.60	20.10	31.70	46.00	-14.30	Average
6	0.594	27.00	20.10	47.10	56.00	-8.90	QP
7	1.158	6.00	19.81	25.81	46.00	-20.19	Average
8	1.158	22.00	19.81	41.81	56.00	-14.19	QP
9	2.303	5.09	20.19	25.28	46.00	-20.72	Average
10	2.303	19.69	20.19	39.88	56.00	-16.12	QP
11	3.607	4.81	20.24	25.05	46.00	-20.95	Average
12	3.607	18.51	20.24	38.75	56.00	-17.25	QP

Neutral:

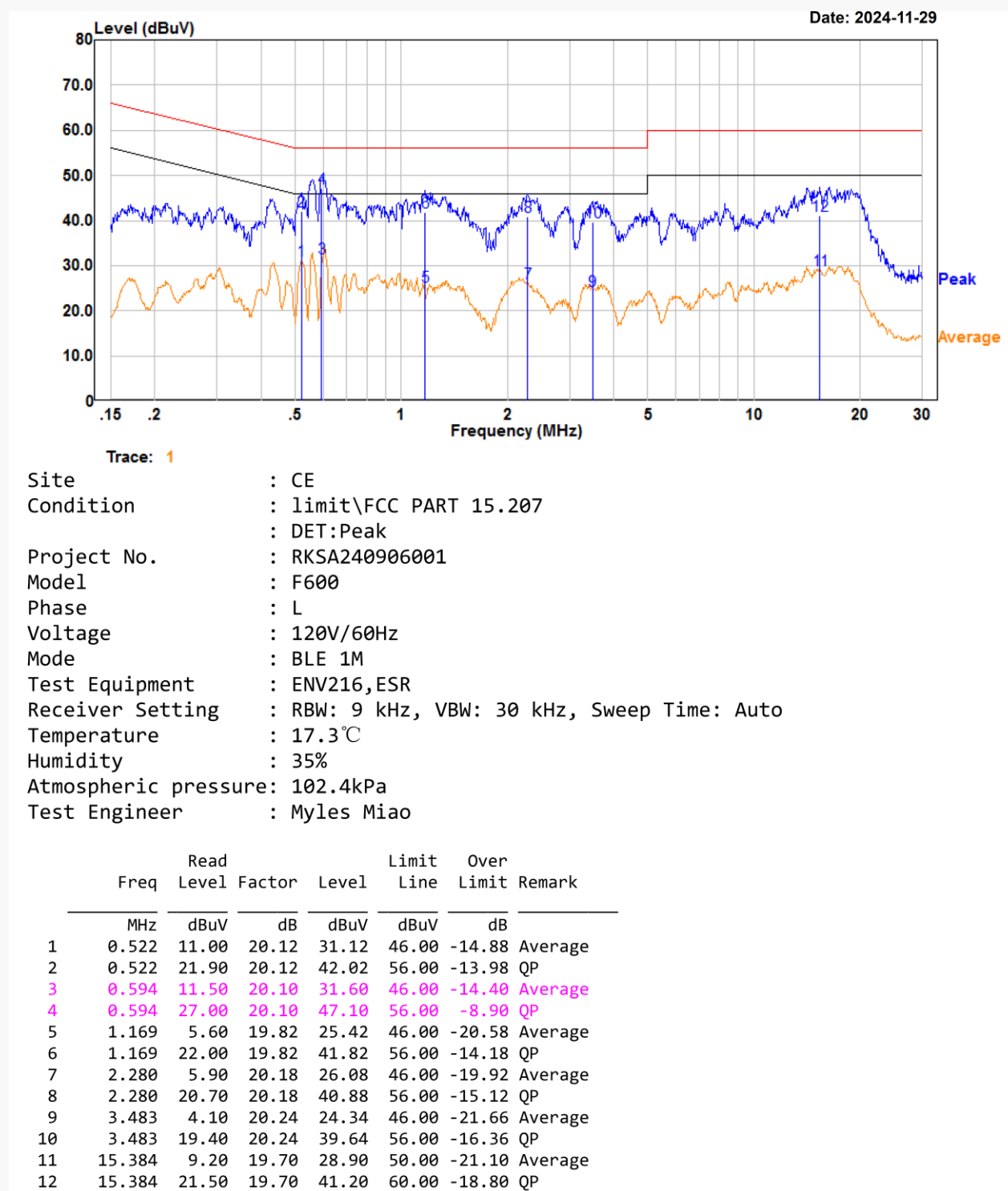


Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSA240906001
Model : F600
Phase : N
Voltage : 120V/60Hz
Mode : 2.4G WIFI
Test Equipment : ENV216,ESR
Receiver Setting : RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature : 17.3°C
Humidity : 35%
Atmospheric pressure: 102.4kPa
Test Engineer : Myles Miao

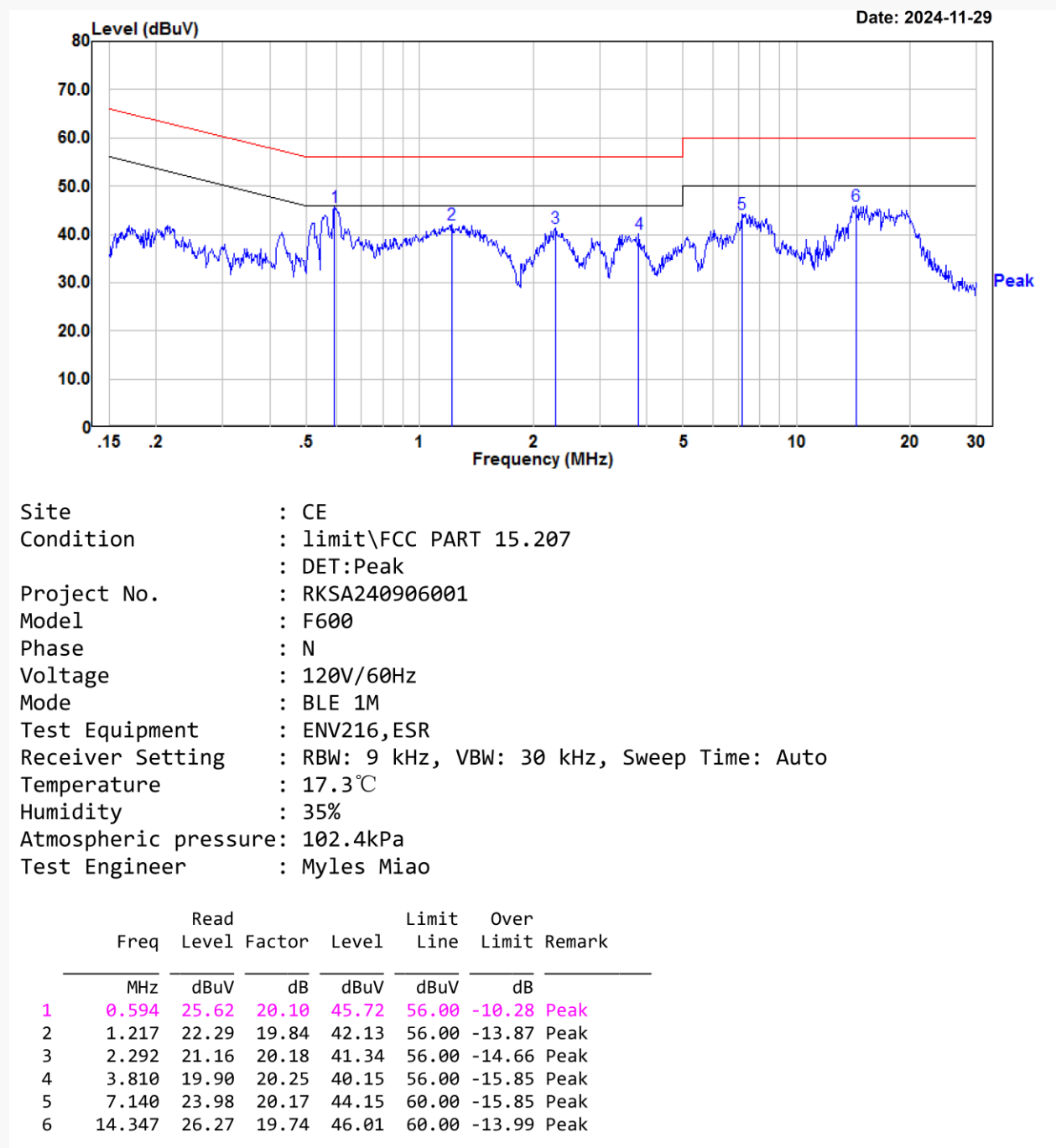
	Read Freq	Level dBuV	Factor dB	Level dBuV	Limit Line dBuV	Over Limit dB	Remark
	MHz						
1	0.594	24.95	20.10	45.05	56.00	-10.95	Peak
2	1.205	21.59	19.84	41.43	56.00	-14.57	Peak
3	2.338	20.79	20.19	40.98	56.00	-15.02	Peak
4	3.589	19.40	20.24	39.64	56.00	-16.36	Peak
5	7.140	23.76	20.17	43.93	60.00	-16.07	Peak
6	14.930	26.13	19.70	45.83	60.00	-14.17	Peak

For BLE Mode:

EUT operation mode: Transmitting in maximum output power mode Middle channel

Line

Neutral



SPURIOUS EMISSIONS

Test Result: Compliant

EUT operation mode: Transmitting

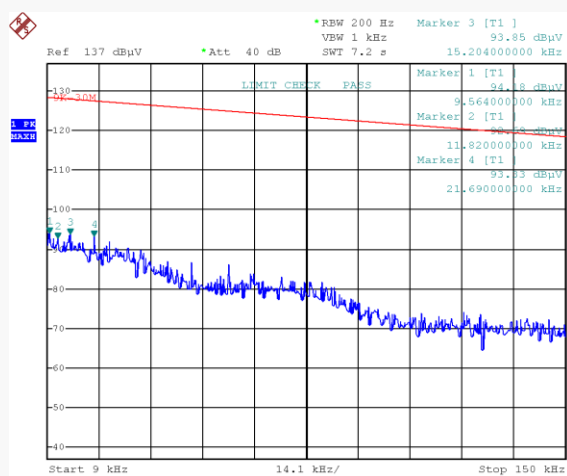
After pre-scan in the X, Y and Z axes of orientation, the worst case in the Y axes of orientation is below:

9 kHz-30MHz: (Transmitting in maximum output power mode and channel 802.11n-HT40 middle channel)

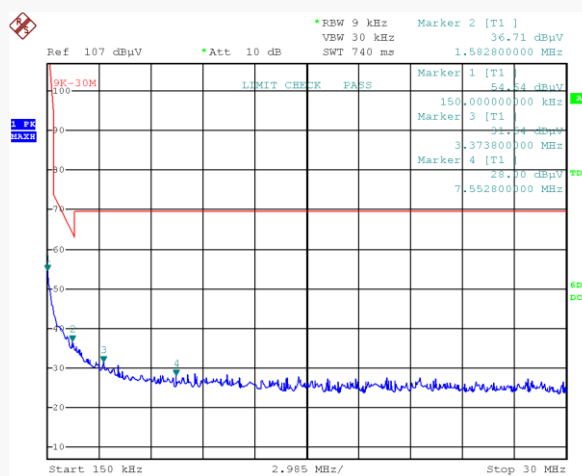
Parallel(worst case)

9kHz-150kHz

150kHz-30MHz



Project No.RKSA240906001
Date: 17.DEC.2024 19:19:09
Tester:Jerry Yan



Project No.RKSA240906001
Date: 17.DEC.2024 19:23:16
Tester:Jerry Yan

9 kHz – 150 kHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
9.56	94.18	PK	56.64	128.00	33.82
11.82	92.69	PK	55.21	126.15	33.46
15.20	93.85	PK	53.06	123.97	30.12
21.69	93.33	PK	49.53	120.88	27.55

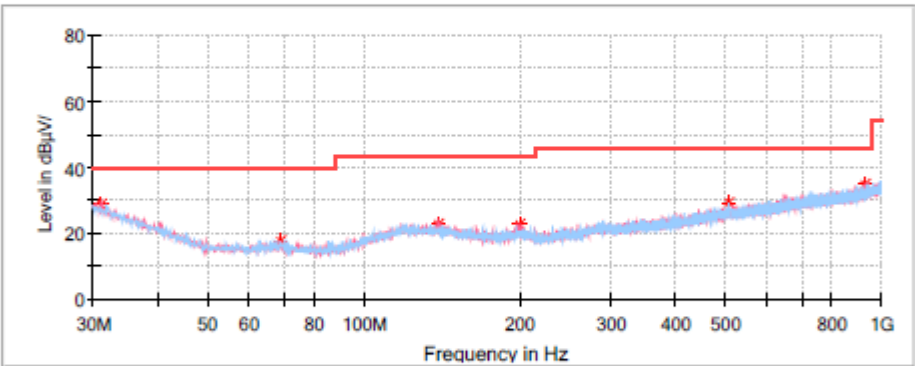
150 kHz – 30 MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15	54.64	PK	50.90	104.08	49.44
1.58	36.71	PK	8.94	63.63	26.92
3.37	31.64	PK	13.46	69.54	37.90
7.55	28.00	PK	6.58	69.54	41.54

For Wi-Fi Mode:
30MHz-1GHz (802.11n-HT40 mode is worst case) :
Low channel: 2422MHz

Common Information

Project No: RKSA240906001
EUT Model: F600
Test Mode: 2.4G WIFI
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 120 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 16.8°C
Humidity: 48%
Barometric Pressure: 101.8kPa
Test Engineer: Jerry Yan
Test Date: 2024/12/02



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.091250	28.50	40.00	11.50	V	-5.5
69.163750	17.83	40.00	22.17	V	-16.6
139.731250	22.55	43.50	20.95	V	-11.2
200.113750	22.76	43.50	20.74	V	-12.0
506.755000	29.03	46.00	16.97	H	-5.2
929.917500	34.79	46.00	11.21	V	0.9

Middle channel: 2437MHz

Common Information

Project No:RKSA240906001

EUT Model:F600

Test Mode:2.4G WIFI

Standard:FCC Part 15.205 &FCC Part 15.209&FCC Part 15.247

Test Equipment:ESCI, JB3, 310N

Receiver Setting:RBW:120 kHz, VBW: 300 kHz, Sweep Time: Auto

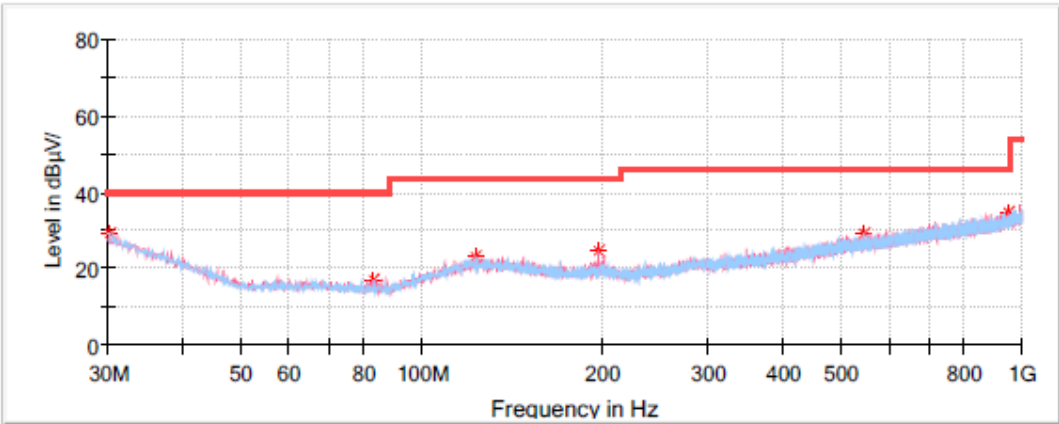
Temperature:16.8℃

Humidity:48%

Barometric Pressure:101.8kPa

Test Engineer:Jerry Yan

Test Date:2024/12/02

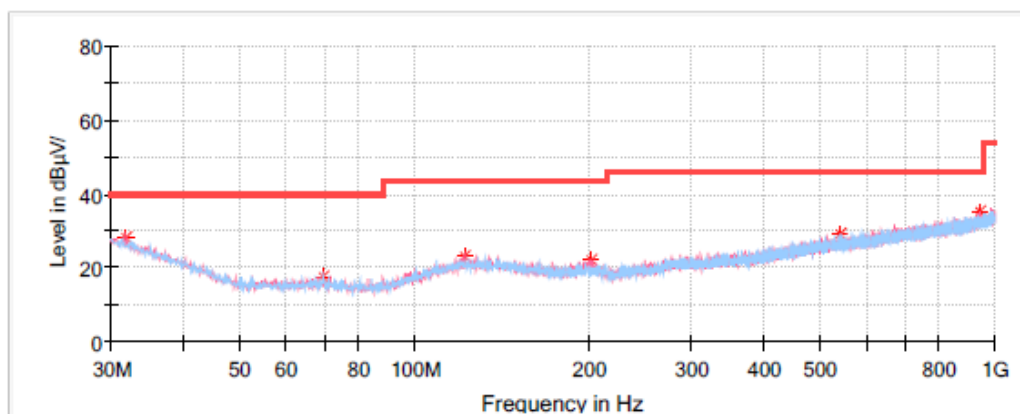


Critical Freqs

Frequency (MHz)	MaxPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.121250	29.18	40.00	10.82	H	-4.8
83.350000	16.97	40.00	23.03	H	-17.1
122.877500	23.23	43.50	20.27	H	-10.9
197.688750	24.66	43.50	18.84	V	-12.1
547.495000	29.19	46.00	16.81	V	-4.7
951.378750	34.60	46.00	11.40	V	1.5

High Channel: 2452MHz**Common Information**

Project No: RKSA240906001
EUT Model: F600
Test Mode: 2.4G WIFI
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 120 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 16.8°C
Humidity: 48%
Barometric Pressure: 101.8kPa
Test Engineer: Jerry Yan
Test Date: 2024/12/02

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.940000	28.29	40.00	11.71	V	-6.0
69.770000	17.41	40.00	22.59	H	-16.5
121.543750	23.32	43.50	20.18	V	-10.9
201.447500	22.09	43.50	21.41	V	-12.1
541.917500	29.34	46.00	16.66	H	-4.8
941.315000	35.37	46.00	10.63	V	1.2

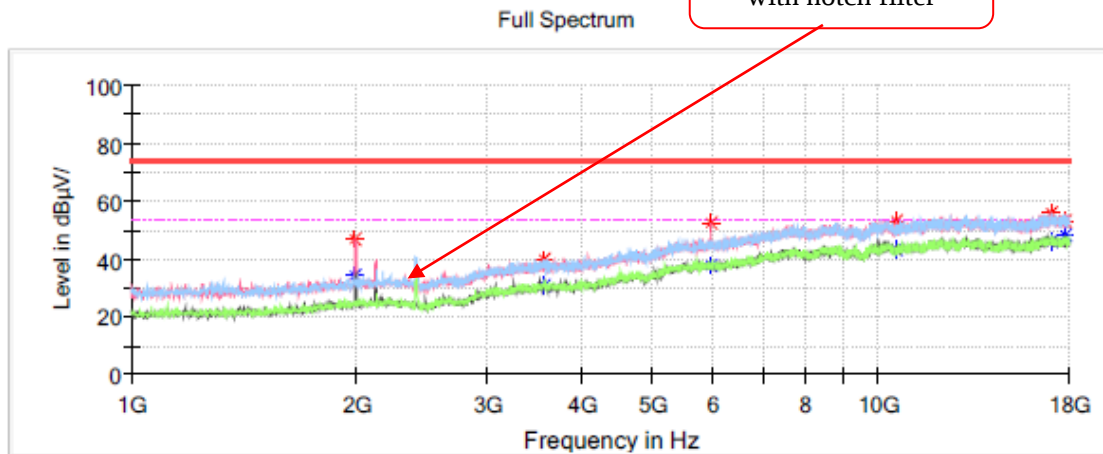
1GHz-18GHz:
802.11b Mode:

Low Channel: 2412MHz

Common Information

Project No.: RKSA240906001
 Test Mode: Transmitting in 802.11b mode 2412 channel
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

Fundamental Test
with notch filter

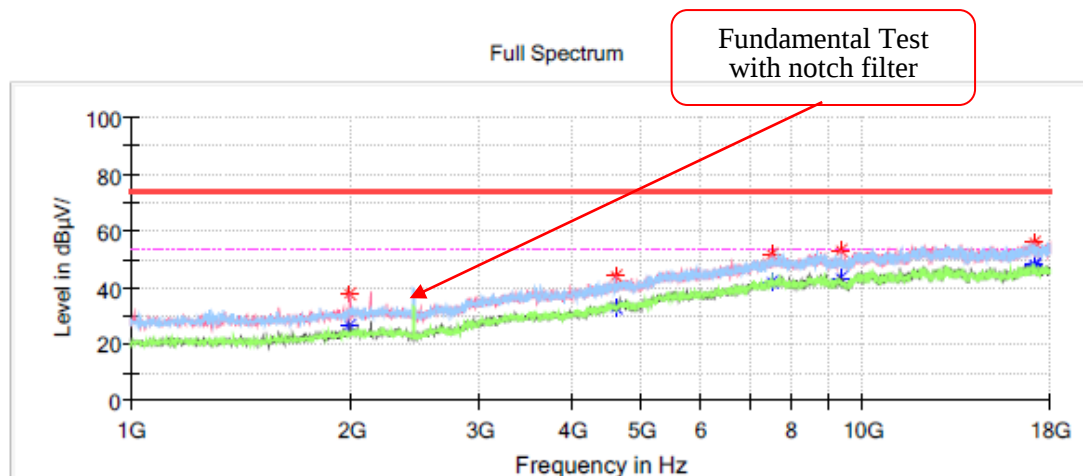


Critical_Freqs

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	---	34.15	54.00	19.85	V	-11.8
1989.400000	46.60	---	74.00	27.40	V	-11.8
3573.800000	---	30.51	54.00	23.49	V	-6.3
3573.800000	40.03	---	74.00	33.97	V	-6.3
5979.300000	52.26	---	74.00	21.74	V	0.0
5979.300000	---	38.08	54.00	15.92	V	0.0
10564.200000	---	43.01	54.00	10.99	V	7.2
10564.200000	53.11	---	74.00	20.89	V	7.2
17065.000000	---	46.48	54.00	7.52	H	12.2
17065.000000	55.60	---	74.00	18.40	H	12.2
17799.400000	---	47.53	54.00	6.47	H	11.8
17799.400000	53.39	---	74.00	20.61	H	11.8

Middle Channel: 2437MHz**Common Information**

Project No.: RKSA240906001
 Test Mode: Transmitting in 802.11b mode 2437 channel
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

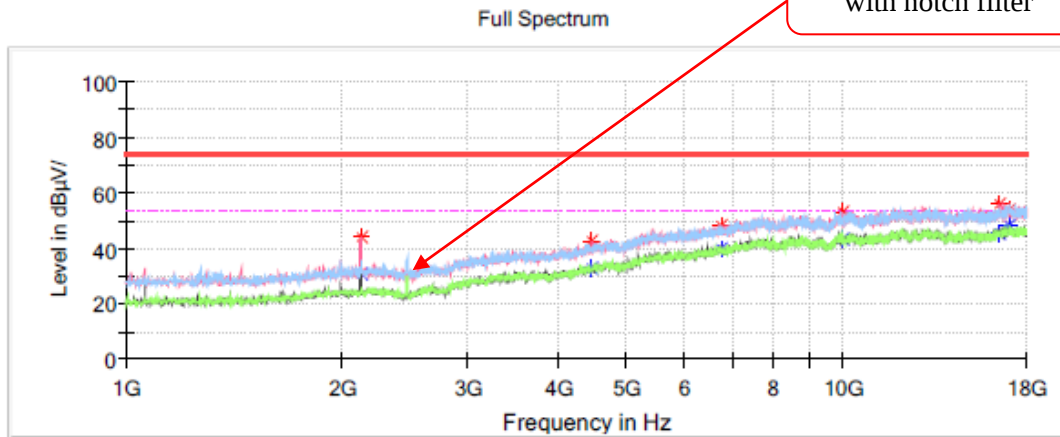
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1996.200000	---	26.34	54.00	27.66	V	-11.8
1996.200000	37.76	---	74.00	36.24	V	-11.8
4604.000000	---	33.08	54.00	20.92	H	-3.9
4604.000000	43.77	---	74.00	30.23	H	-3.9
7505.900000	---	41.77	54.00	12.23	H	3.9
7505.900000	51.64	---	74.00	22.36	H	3.9
9319.800000	---	43.58	54.00	10.42	V	5.4
9319.800000	52.97	---	74.00	21.03	V	5.4
17082.000000	---	47.38	54.00	6.62	H	12.2
17082.000000	54.04	---	74.00	19.96	H	12.2
17110.900000	---	47.22	54.00	6.78	V	12.1
17110.900000	56.21	---	74.00	17.79	V	12.1

High Channel: 2462MHz**Common Information**

Project No.: RKSA240906001
 Test Mode: Transmitting in 802.11b mode 2462 channel
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

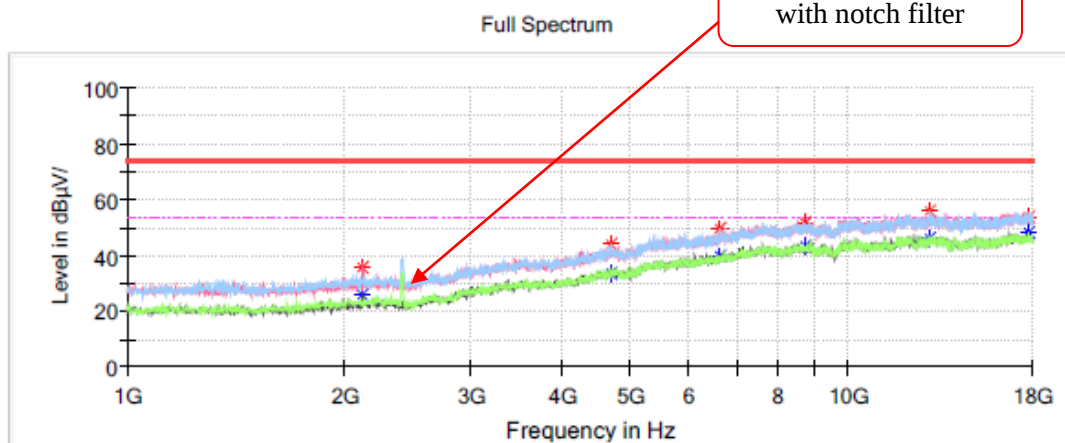
Fundamental Test
with notch filter

**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)
2128.800000	---	30.87	54.00	23.13	V	-11.3
2128.800000	43.97	---	74.00	30.03	V	-11.3
4462.900000	---	33.12	54.00	20.88	H	-4.4
4462.900000	42.54	---	74.00	31.46	H	-4.4
6744.300000	---	40.13	54.00	13.87	H	1.6
6744.300000	48.58	---	74.00	25.42	H	1.6
9955.600000	---	43.10	54.00	10.90	V	7.0
9955.600000	53.09	---	74.00	20.91	V	7.0
16543.100000	56.20	---	74.00	17.80	V	10.9
16543.100000	---	45.66	54.00	8.34	V	10.9
17022.500000	54.18	---	74.00	19.82	H	12.2
17022.500000	---	47.24	54.00	6.76	H	12.2

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

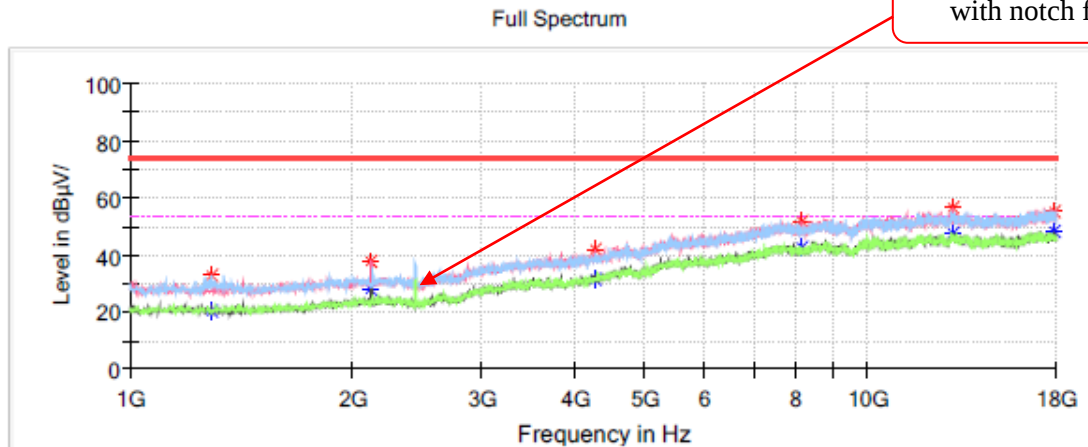
Project No.: RKSA240906001
Test Mode: Transmitting in 802.11g mode 2412 channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

**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)
2123.700000	---	26.06	54.00	27.94	V	-11.3
2123.700000	35.96	---	74.00	38.04	V	-11.3
4677.100000	---	33.50	54.00	20.50	H	-3.6
4677.100000	44.23	---	74.00	29.77	H	-3.6
6649.100000	---	39.51	54.00	14.49	H	1.2
6649.100000	49.77	---	74.00	24.23	H	1.2
8690.800000	---	43.49	54.00	10.51	V	5.4
8690.800000	52.04	---	74.00	21.96	V	5.4
12947.600000	55.60	---	74.00	18.40	H	9.7
12947.600000	---	46.00	54.00	8.00	H	9.7
17799.400000	53.67	---	74.00	20.33	H	11.8
17799.400000	---	47.25	54.00	6.75	H	11.8

Middle Channel: 2437MHz**Common Information**

Project No.: RKSA240906001
Test Mode: Transmitting in 802.11g mode 2437 channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

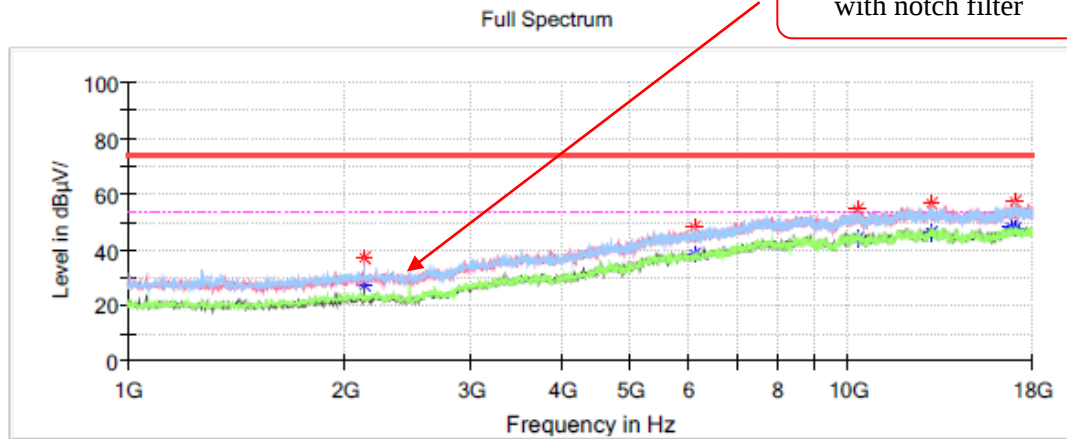
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1285.600000	---	20.43	54.00	33.57	H	-15.0
1285.600000	33.07	---	74.00	40.93	H	-15.0
2123.700000	---	27.89	54.00	26.11	V	-11.3
2123.700000	37.75	---	74.00	36.25	V	-11.3
4277.600000	---	31.65	54.00	22.35	V	-5.0
4277.600000	41.61	---	74.00	32.39	V	-5.0
8126.400000	---	42.31	54.00	11.69	V	4.3
8126.400000	51.73	---	74.00	22.27	V	4.3
13017.300000	56.59	---	74.00	17.41	V	9.7
13017.300000	---	47.46	54.00	6.54	V	9.7
17838.500000	55.56	---	74.00	18.44	H	11.8
17838.500000	---	47.09	54.00	6.91	H	11.8

High Channel: 2462MHz**Common Information**

Project No.: RKSA240906001
 Test Mode: Transmitting in 802.11g mode 2462 channel
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

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)
2130.500000	37.25	---	74.00	36.75	V	-11.3
2130.500000	---	27.36	54.00	26.64	V	-11.3
6132.300000	---	38.65	54.00	15.35	H	0.1
6132.300000	48.27	---	74.00	25.73	H	0.1
10316.000000	---	43.98	54.00	10.02	H	7.1
10316.000000	54.42	---	74.00	19.58	H	7.1
13022.400000	---	45.85	54.00	8.15	V	9.7
13022.400000	56.42	---	74.00	17.58	V	9.7
16816.800000	---	47.44	54.00	6.56	H	11.7
16816.800000	53.16	---	74.00	20.84	H	11.7
16985.100000	57.22	---	74.00	16.78	H	12.2
16985.100000	---	47.63	54.00	6.37	H	12.2

802.11n-HT20 Mode :

Low Channel: 2412MHz

Common Information

Project No.:

RKSA240906001

Test Mode:

Transmitting in 802.11n20 mode 2412 channel

Standard:

FCC Part 15.205&FCC Part 15.209&FCC Part 15.247

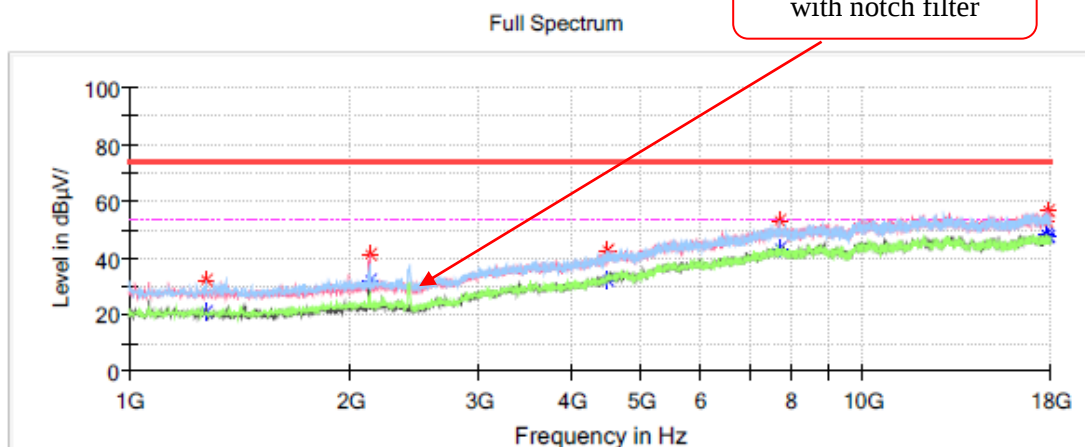
Receiver Setting:

RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

Test Engineer:

Destine Hu

Fundamental Test
with notch filter



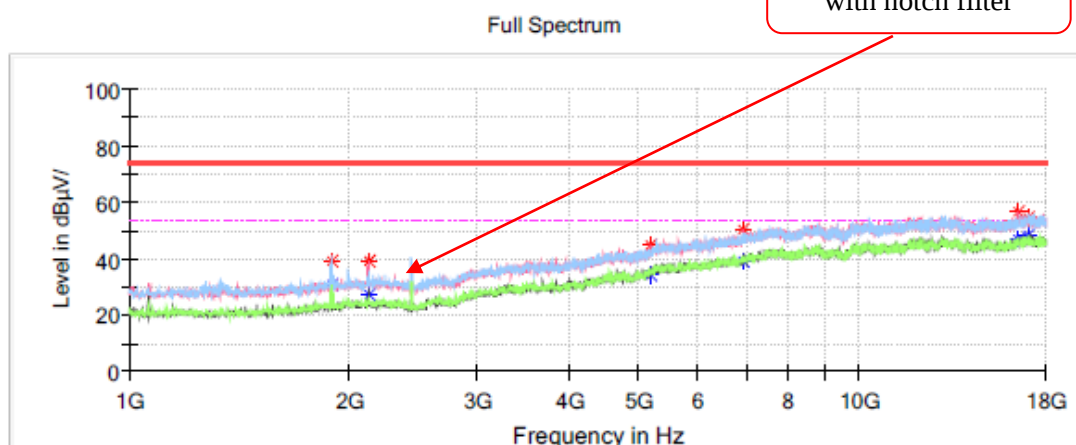
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1273.700000	---	21.28	54.00	32.72	V	-15.1
1273.700000	32.17	---	74.00	41.83	V	-15.1
2130.500000	41.56	---	74.00	32.44	V	-11.3
2130.500000	---	32.31	54.00	21.69	V	-11.3
4473.100000	---	32.45	54.00	21.55	H	-4.3
4473.100000	42.91	---	74.00	31.09	H	-4.3
7682.700000	---	43.17	54.00	10.83	H	3.9
7682.700000	52.81	---	74.00	21.19	H	3.9
17745.000000	---	47.02	54.00	6.98	H	11.7
17745.000000	53.41	---	74.00	20.59	H	11.7
17845.300000	---	47.29	54.00	6.71	V	11.8
17845.300000	56.36	---	74.00	17.64	V	11.8

Middle Channel: 2437MHz**Common Information**

Project No.: RKSA240906001
Test Mode: Transmitting in 802.11n20 mode 2437 channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

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)
1889.100000	---	30.98	54.00	23.02	H	-12.4
1889.100000	39.19	---	74.00	34.81	H	-12.4
2128.800000	---	27.53	54.00	26.47	V	-11.3
2128.800000	39.14	---	74.00	34.86	V	-11.3
5180.300000	---	34.52	54.00	19.48	V	-1.7
5180.300000	45.01	---	74.00	28.99	V	-1.7
6916.000000	---	39.49	54.00	14.51	H	2.3
6916.000000	50.55	---	74.00	23.45	H	2.3
16529.500000	56.74	---	74.00	17.26	V	10.9
16529.500000	---	47.03	54.00	6.97	V	10.9
16991.900000	54.28	---	74.00	19.72	V	12.3
16991.900000	---	47.35	54.00	6.65	V	12.3

High Channel: 2462MHz**Common Information**

Project No.:

RKSA240906001

Test Mode:

Transmitting in 802.11n20 mode 2462 channel

Standard:

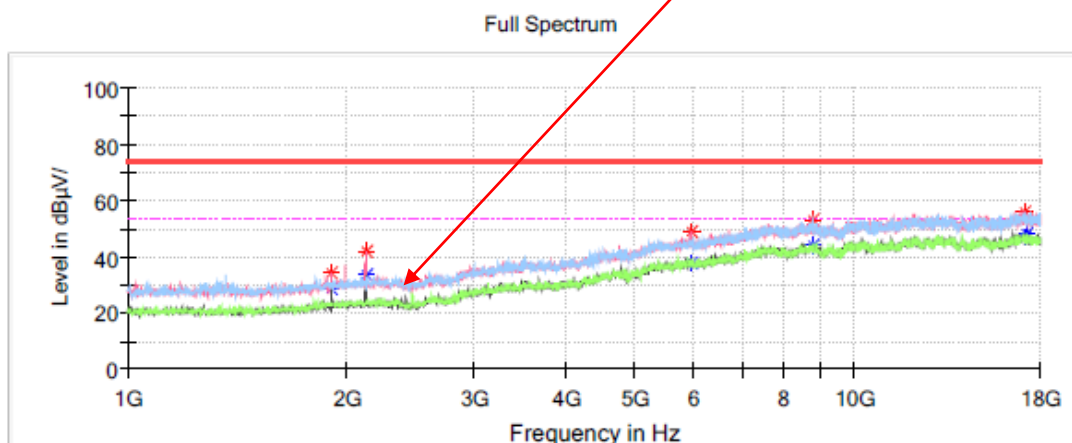
FCC Part 15.205&FCC Part 15.208&FCC Part 15.247

Receiver Setting:

RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

Test Engineer:

Destine Hu

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)
1902.700000	---	28.97	54.00	25.03	V	-12.3
1902.700000	34.46	---	74.00	39.54	V	-12.3
2130.500000	---	33.57	54.00	20.43	V	-11.3
2130.500000	41.97	---	74.00	32.03	V	-11.3
5981.000000	---	37.91	54.00	16.09	V	0.0
5981.000000	49.14	---	74.00	24.86	V	0.0
8740.100000	---	44.10	54.00	9.90	H	5.4
8740.100000	53.42	---	74.00	20.58	H	5.4
17087.100000	56.08	---	74.00	17.92	H	12.1
17087.100000	---	46.86	54.00	7.14	H	12.1
17258.800000	53.18	---	74.00	20.82	H	11.9
17258.800000	---	47.59	54.00	6.41	H	11.9

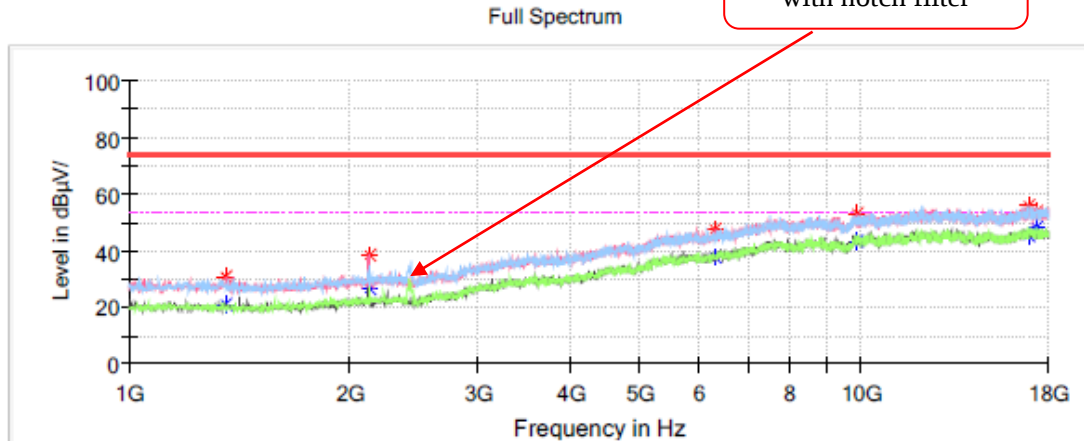
802.11n-HT40 Mode :

Low Channel: 2422MHz

Common Information

Project No.: RKSA240906001
Test Mode: Transmitting in 802.11n40 mode 2422 channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Fundamental Test
with notch filter



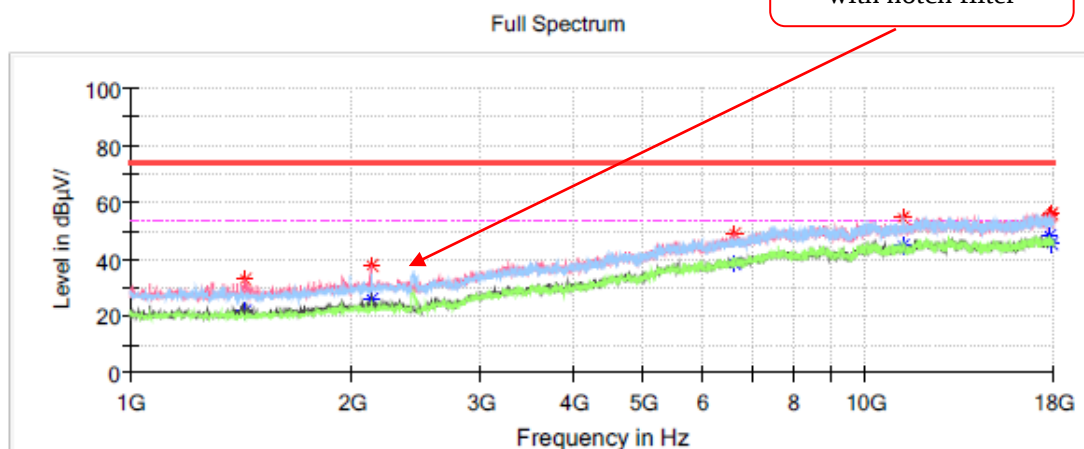
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1358.700000	---	20.72	54.00	33.28	V	-14.9
1358.700000	30.95	---	74.00	43.05	V	-14.9
2125.400000	---	26.26	54.00	27.74	V	-11.3
2125.400000	38.37	---	74.00	35.63	V	-11.3
6295.500000	---	38.03	54.00	15.97	V	0.3
6295.500000	47.84	---	74.00	26.16	V	0.3
9834.900000	---	43.20	54.00	10.80	V	6.6
9834.900000	53.28	---	74.00	20.72	V	6.6
16954.500000	55.98	---	74.00	18.02	H	12.1
16954.500000	---	45.33	54.00	8.67	H	12.1
17335.300000	54.04	---	74.00	19.96	H	11.8
17335.300000	---	47.07	54.00	6.93	H	11.8

Middle Channel: 2437MHz**Common Information**

Project No.: RKSA240906001
Test Mode: Transmitting in 802.11n40 mode 2437 channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

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)
1436.900000	---	22.02	54.00	31.98	V	-14.8
1436.900000	33.13	---	74.00	40.87	V	-14.8
2125.400000	---	25.55	54.00	28.45	V	-11.3
2125.400000	37.74	---	74.00	36.26	V	-11.3
6615.100000	---	38.67	54.00	15.33	V	1.0
6615.100000	49.15	---	74.00	24.85	V	1.0
11240.800000	---	44.57	54.00	9.43	V	8.1
11240.800000	54.70	---	74.00	19.30	V	8.1
17804.500000	---	47.34	54.00	6.66	H	11.8
17804.500000	55.44	---	74.00	18.56	H	11.8
17879.300000	---	45.22	54.00	8.78	H	11.9
17879.300000	56.14	---	74.00	17.86	H	11.9

High Channel: 2452MHz**Common Information**

Project No.:

RKSA240906001

Test Mode:

Transmitting in 802.11n40 mode 2452 channel

Standard:

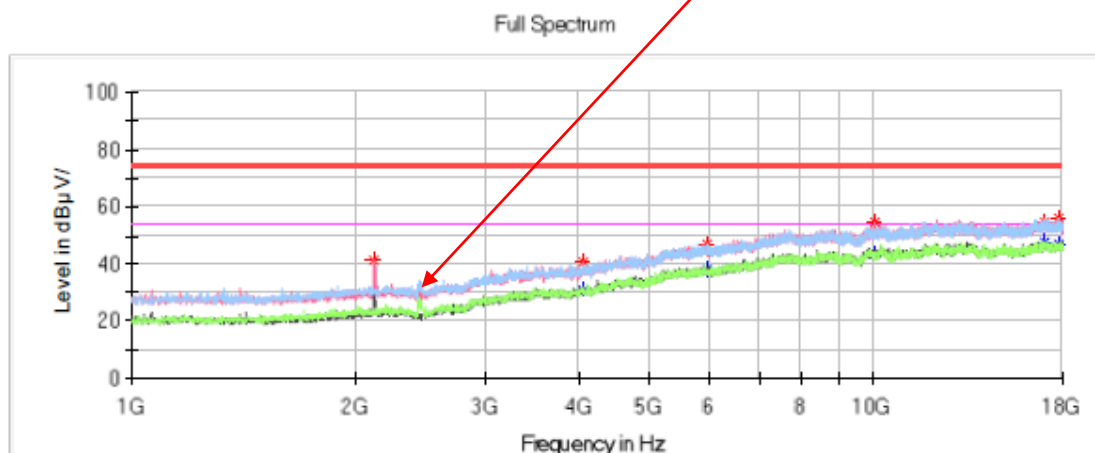
FCC Part 15.205&FCC Part 15.209&FCC Part 15.247

Receiver Setting:

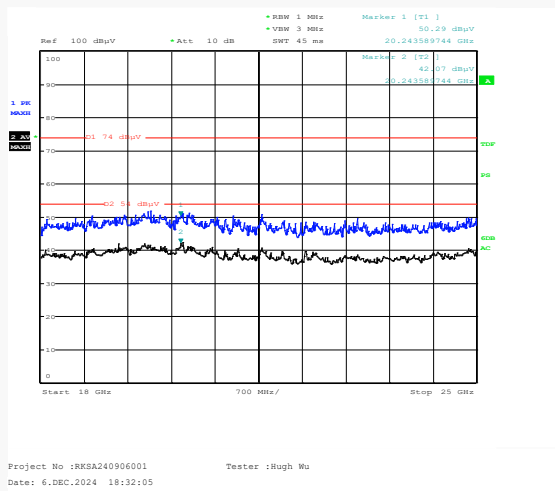
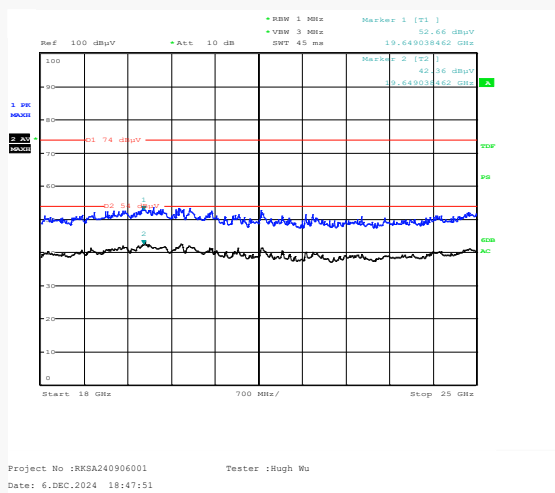
RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

Test Engineer:

Destine Hu

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)
2123.700000	---	30.28	54.00	23.72	V	-11.3
2123.700000	41.35	---	74.00	32.65	V	-11.3
4053.200000	---	30.73	54.00	23.27	H	-5.7
4053.200000	40.51	---	74.00	33.49	H	-5.7
5977.600000	---	38.07	54.00	15.93	H	0.0
5977.600000	47.12	---	74.00	26.88	H	0.0
10027.000000	---	43.12	54.00	10.88	V	7.2
10027.000000	54.32	---	74.00	19.68	V	7.2
16998.700000	---	47.90	54.00	6.10	V	12.3
16998.700000	54.34	---	74.00	19.66	V	12.3
17773.900000	---	47.01	54.00	6.99	H	11.8
17773.900000	55.83	---	74.00	18.17	H	11.8

18GHz-25GHz:**Transmitting in maximum output power mode 802.11n-HT40 mode Middle channel
Horizontal****Vertical**

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
19649.04	52.66	---	74	21.34	V	11.27
19649.04	---	42.36	54	11.64	V	11.27
20243.59	50.29	---	74	23.71	H	12.5
20243.59	---	42.07	54	11.93	H	12.5

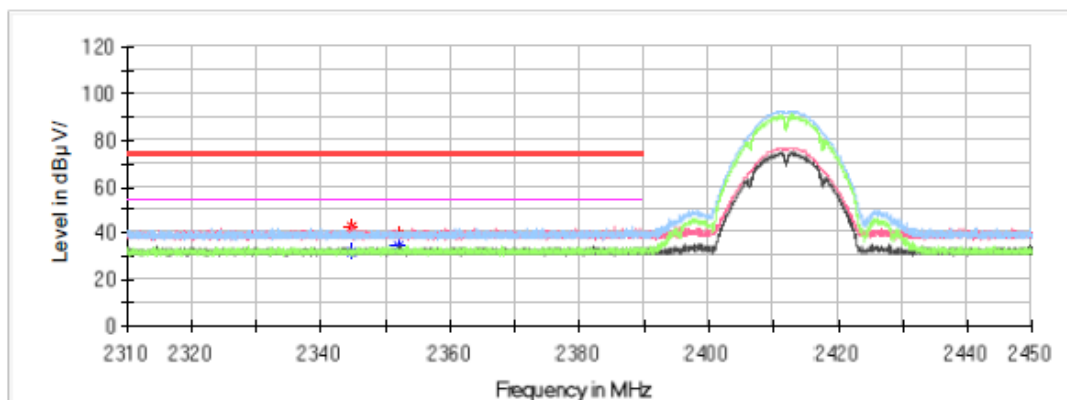
Band Edge:
802.11b Mode:

Low Channel

Common Information

Project No.:	RKSA240906001
Test Mode:	Transmitting in 802.11b mode 2412 channel
Standard:	FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum



Critical Freqs

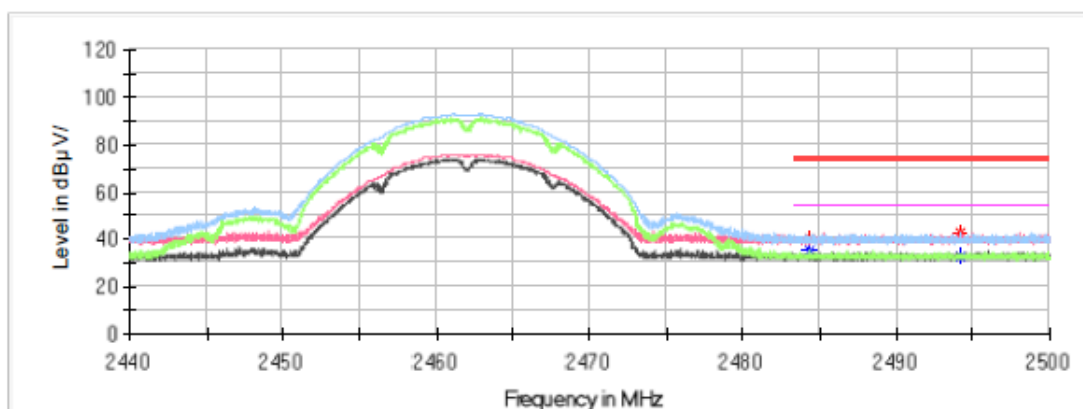
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2344.832000	42.60	---	74.00	31.40	V	-4.7
2344.832000	---	31.66	54.00	22.34	V	-4.7
2352.084000	39.43	---	74.00	34.57	H	-4.7
2352.084000	---	34.79	54.00	19.21	H	-4.7

High Channel

Common Information

Project No.: RKSA240906001
Test Mode: Transmitting in 802.11b mode 2462 channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
2484.406000	---	35.12	54.00	18.88	V	-4.3
2484.406000	40.33	---	74.00	33.67	V	-4.3
2494.180000	---	32.45	54.00	21.55	H	-4.2
2494.180000	42.94	---	74.00	31.06	H	-4.2

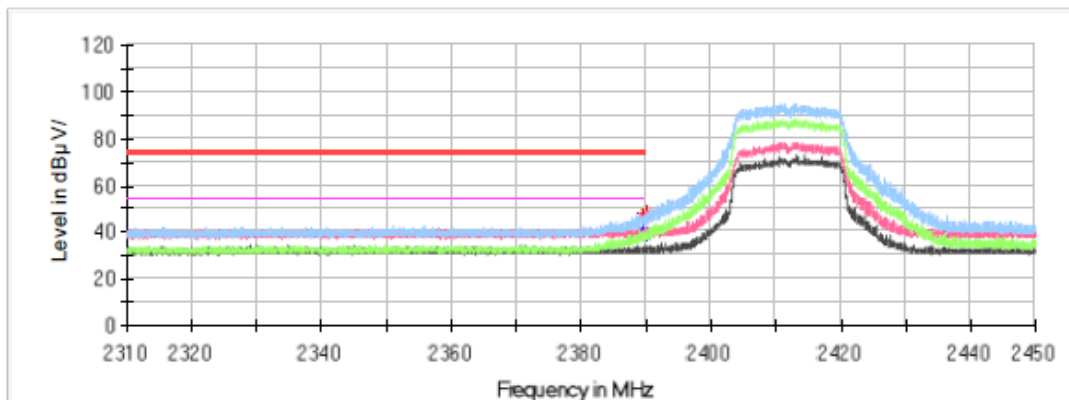
802.11g Mode :

Low Channel

Common Information

Project No.: RKSA240906001
Test Mode: Transmitting in 802.11g mode 2412 channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum



Critical_Freqs

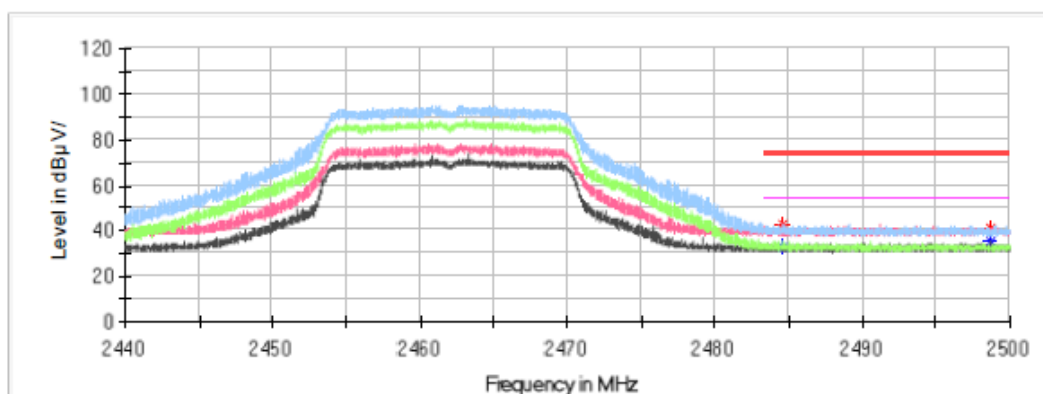
Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.744000	---	40.34	54.00	13.66	H	-4.6
2389.744000	45.97	---	74.00	28.03	H	-4.6
2389.828000	---	38.87	54.00	15.13	H	-4.6
2389.828000	47.99	---	74.00	26.01	H	-4.6

High Channel

Common Information

Project No.: RKSA240906001
Test Mode: Transmitting in 802.11g mode 2462 channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

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)
2484.610000	42.57	---	74.00	31.43	H	-4.3
2484.610000	---	33.04	54.00	20.96	H	-4.3
2498.722000	41.02	---	74.00	32.98	V	-4.2
2498.722000	---	35.22	54.00	18.78	V	-4.2

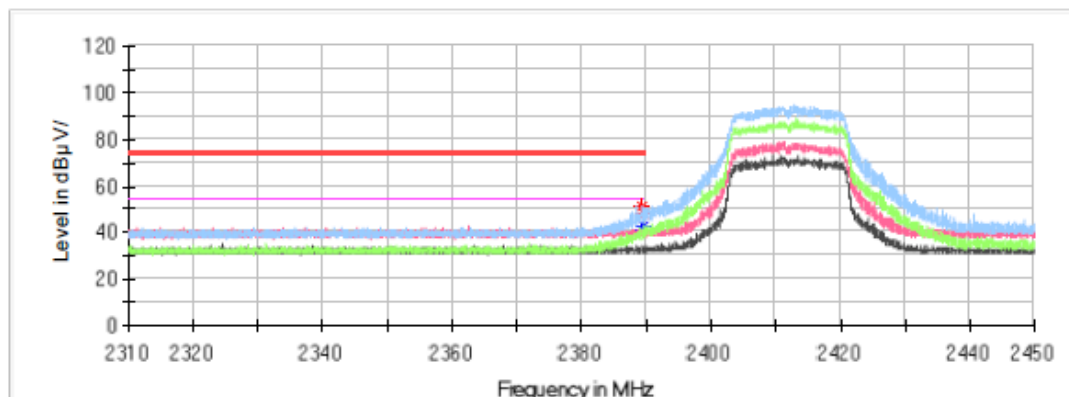
802.11n-HT20 Mode:

Low Channel

Common Information

Project No.: RKSA240906001
Test Mode: Transmitting in 802.11n20 mode 2412 channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum



Critical Freqs

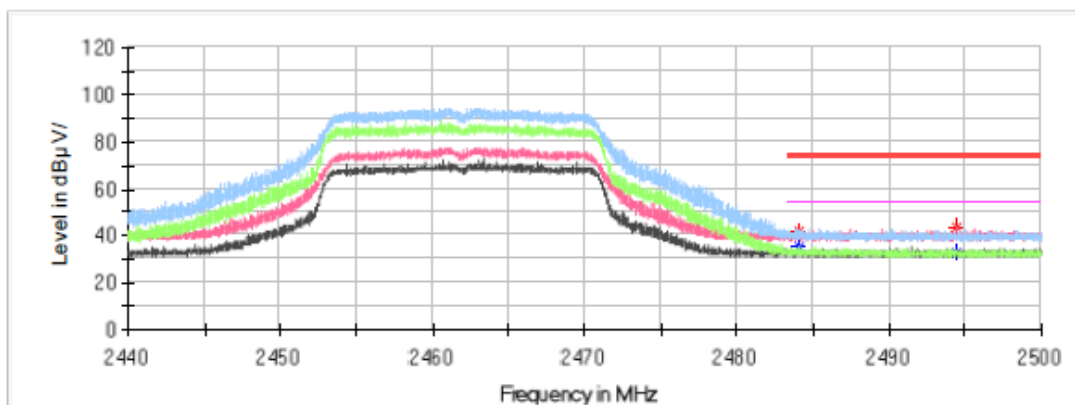
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.422000	51.52	---	74.00	22.48	H	-4.6
2389.422000	---	41.44	54.00	12.56	H	-4.6
2389.576000	47.96	---	74.00	26.04	H	-4.6
2389.576000	---	42.49	54.00	11.51	H	-4.6

High Channel

Common Information

Project No.: RKSA240906001
Test Mode: Transmitting in 802.11n20 mode 2462 channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

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)
2484.064000	---	35.02	54.00	18.98	H	-4.3
2484.064000	41.99	---	74.00	32.01	H	-4.3
2494.402000	---	32.64	54.00	21.36	V	-4.2
2494.402000	43.24	---	74.00	30.76	V	-4.2

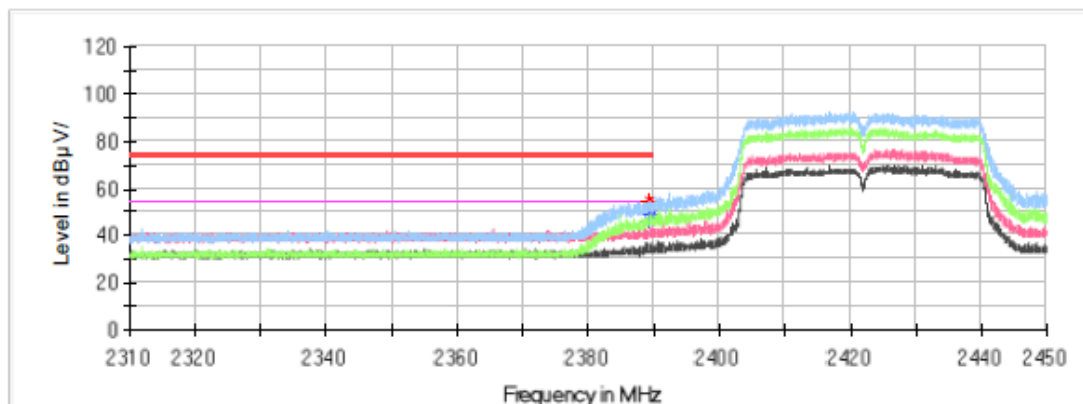
802.11n-HT40 Mode:

Low Channel

Common Information

Project No.: RKSA240906001
Test Mode: Transmitting in 802.11n40 mode 2422 channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum



Critical Freqs

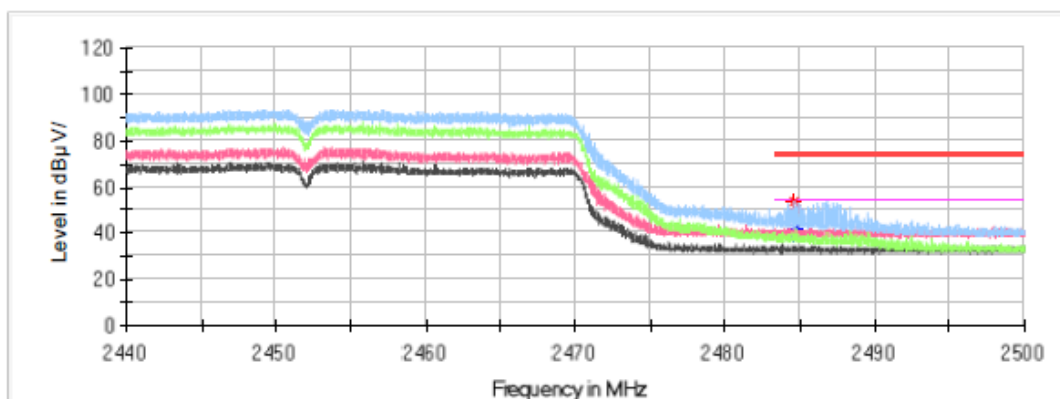
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2389.282000	54.21	---	74.00	19.79	H	-4.6
2389.282000	---	46.46	54.00	7.54	H	-4.6
2389.520000	53.00	---	74.00	21.00	H	-4.6
2389.520000	---	48.81	54.00	5.19	H	-4.6

High Channel

Common Information

Project No.: RKSA240906001
Test Mode: Transmitting in 802.11n40 mode 2452 channel
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum



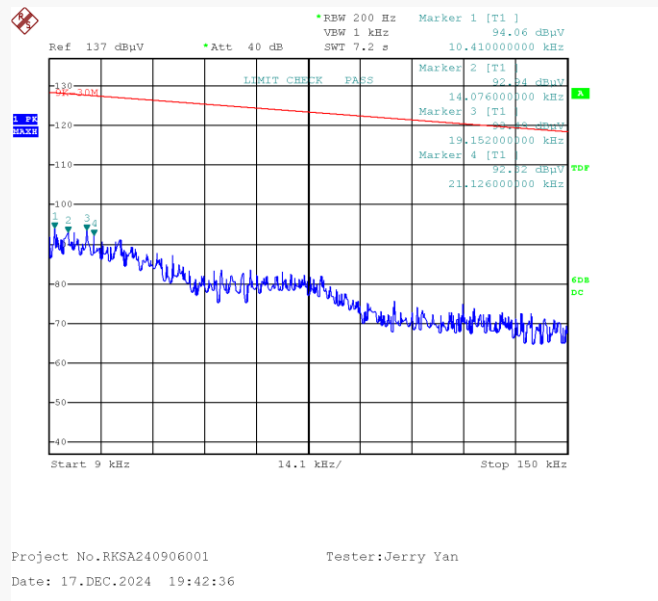
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2484.580000	53.62	---	74.00	20.38	H	-4.3
2484.580000	---	38.97	54.00	15.03	H	-4.3
2484.766000	50.74	---	74.00	23.26	H	-4.3
2484.766000	---	41.99	54.00	12.01	H	-4.3

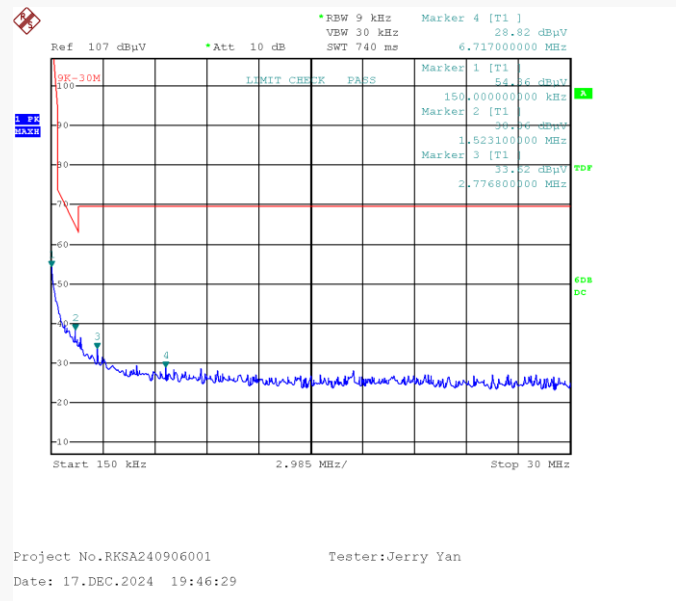
For BLE Mode:

**9 kHz-30 MHz: Transmitting in maximum output power mode Middle channel
Parallel(worst case)**

9 kHz -150 kHz



150 kHz -30 MHz



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)
10.41	94.06	PK	56.10	127.26	33.20
14.08	92.94	PK	53.77	124.63	31.69
19.15	93.49	PK	50.54	121.96	28.47
21.13	92.32	PK	49.68	121.11	28.79

150 kHz -30 MHz

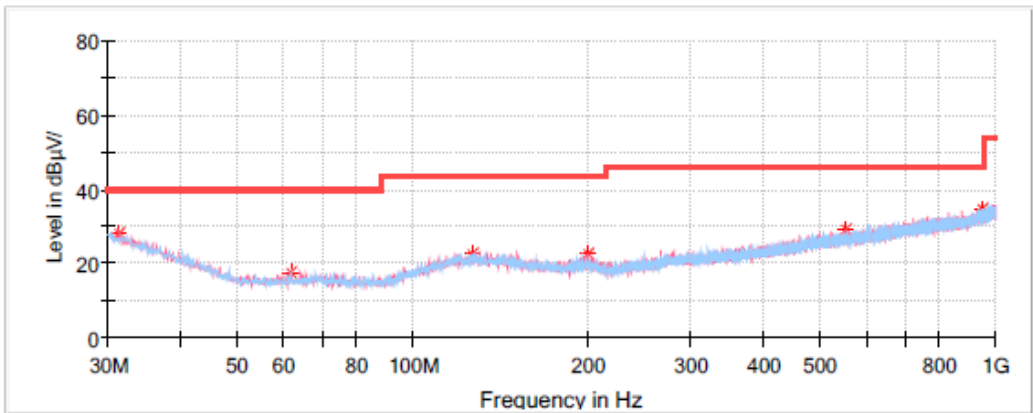
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15	54.36	PK	50.90	104.08	49.72
1.52	38.36	PK	8.16	63.97	25.61
2.78	33.62	PK	11.12	69.54	35.92
6.72	28.82	PK	6.91	69.54	40.72

30MHz-1GHz:

Low Channel: 2402MHz

Common Information

Project No: RKSA240906001
 EUT Model: F600
 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: 120 kHz, VBW: 300 kHz, Sweep Time: Auto
 Temperature: 16.8°C
 Humidity: 48%
 Barometric Pressure: 101.8kPa
 Test Engineer: Jerry Yan
 Test Date: 2024/12/02



Critical Freqs

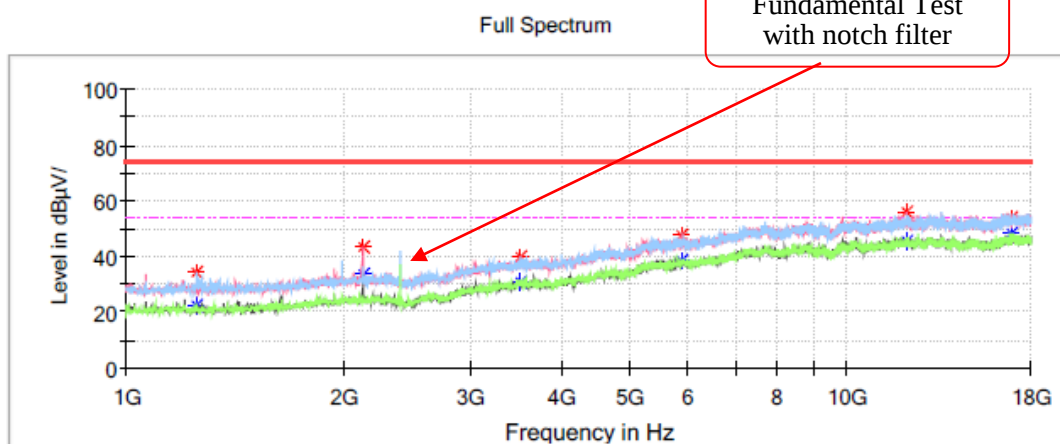
Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.455000	28.31	40.00	11.69	V	-5.7
61.646250	17.46	40.00	22.54	V	-17.0
126.393750	22.79	43.50	20.71	H	-11.0
200.477500	22.61	43.50	20.89	V	-12.1
552.830000	29.20	46.00	16.80	V	-4.6
949.681250	34.97	46.00	11.03	V	1.4

1GHz-18GHz:

Low Channel: 2402MHz

Common Information

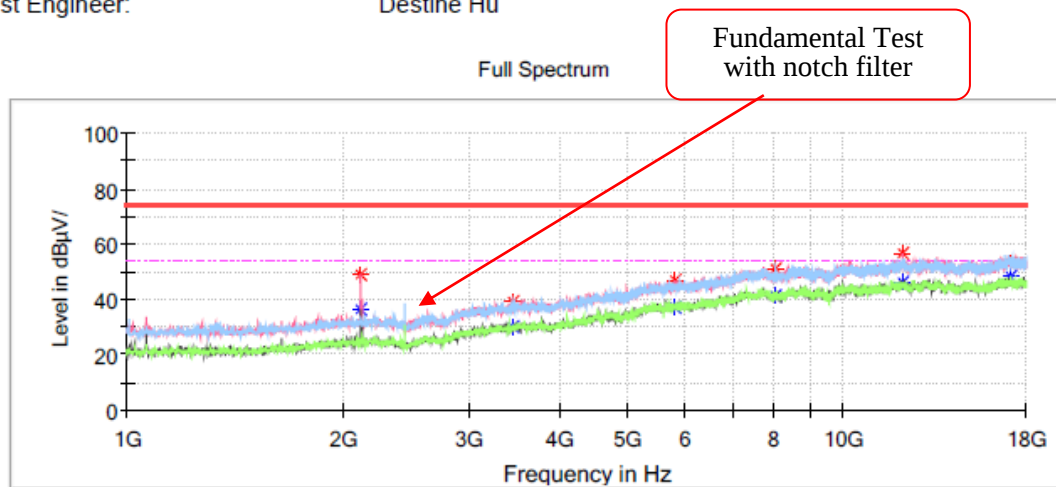
Project No.: RKSA240906001
Test Mode: BLE 1M
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

**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)
1253.300000	34.26	---	74.00	39.74	H	-15.1
1253.300000	---	22.60	54.00	31.40	H	-15.1
2127.100000	43.56	---	74.00	30.44	V	-11.3
2127.100000	---	33.45	54.00	20.55	V	-11.3
3531.300000	---	30.50	54.00	23.50	H	-6.3
3531.300000	39.85	---	74.00	34.15	H	-6.3
5899.400000	---	38.75	54.00	15.25	H	-0.1
5899.400000	47.60	---	74.00	26.40	H	-0.1
12082.300000	---	45.75	54.00	8.25	V	9.1
12082.300000	55.78	---	74.00	18.22	V	9.1
16963.000000	---	47.85	54.00	6.15	V	12.2
16963.000000	53.92	---	74.00	20.08	V	12.2

Middle Channel: 2440MHz**Common Information**

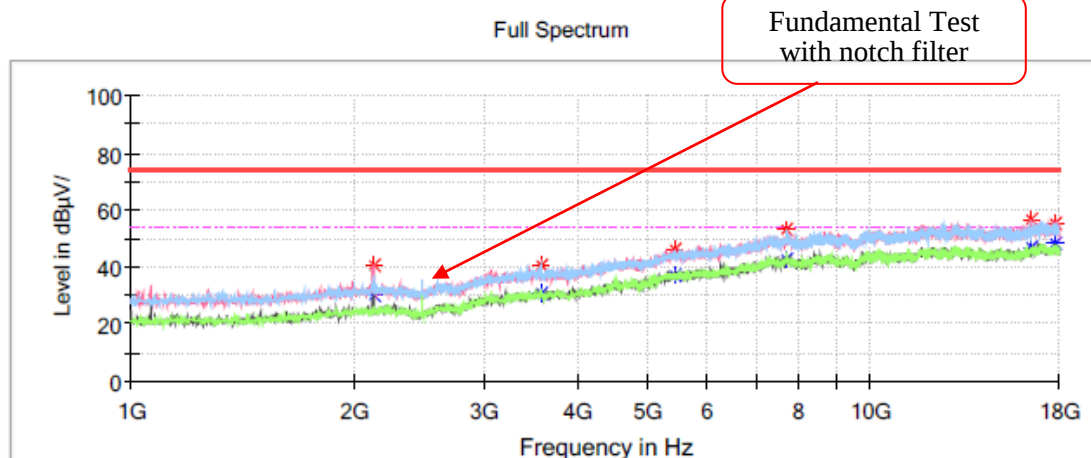
Project No.: RKSA240906001
 Test Mode: BLE 1M
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

**Critical_Freqs**

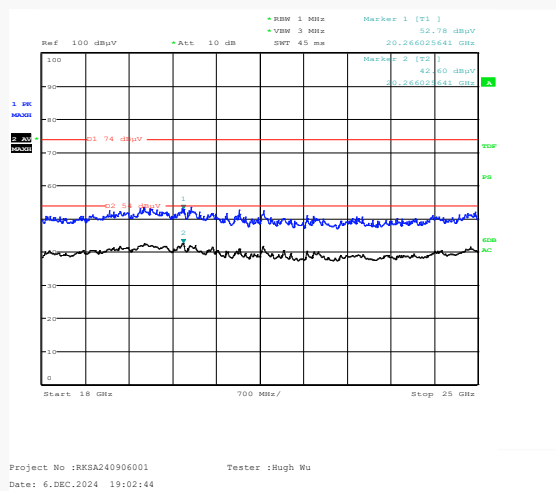
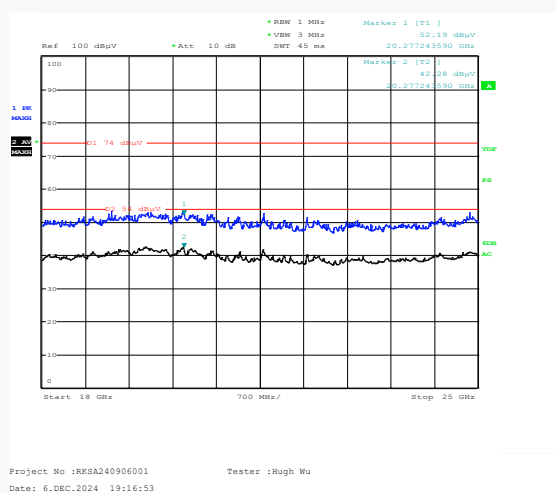
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2122.000000	48.85	---	74.00	25.15	V	-11.4
2122.000000	---	36.21	54.00	17.79	V	-11.4
3449.700000	39.31	---	74.00	34.69	V	-6.6
3449.700000	---	30.40	54.00	23.60	V	-6.6
5828.000000	---	37.11	54.00	16.89	H	-0.1
5828.000000	46.92	---	74.00	27.08	H	-0.1
8061.800000	---	41.05	54.00	12.95	H	4.1
8061.800000	50.94	---	74.00	23.06	H	4.1
12089.100000	---	46.23	54.00	7.77	V	9.1
12089.100000	56.52	---	74.00	17.48	V	9.1
17109.200000	---	47.68	54.00	6.32	H	12.1
17109.200000	52.90	---	74.00	21.10	H	12.1

High Channel: 2480MHz**Common Information**

Project No.: RKSA240906001
 Test Mode: BLE 1M
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

**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	---	30.27	54.00	23.73	V	-11.3
2125.400000	40.70	---	74.00	33.30	V	-11.3
3578.900000	---	30.51	54.00	23.49	H	-6.3
3578.900000	40.42	---	74.00	33.58	H	-6.3
5435.300000	---	37.41	54.00	16.59	H	-0.6
5435.300000	46.49	---	74.00	27.51	H	-0.6
7715.000000	---	42.88	54.00	11.12	V	3.9
7715.000000	52.95	---	74.00	21.05	V	3.9
16510.800000	56.58	---	74.00	17.42	V	10.8
16510.800000	---	46.66	54.00	7.34	V	10.8
17809.600000	55.47	---	74.00	18.53	H	11.8
17809.600000	---	47.93	54.00	6.07	H	11.8

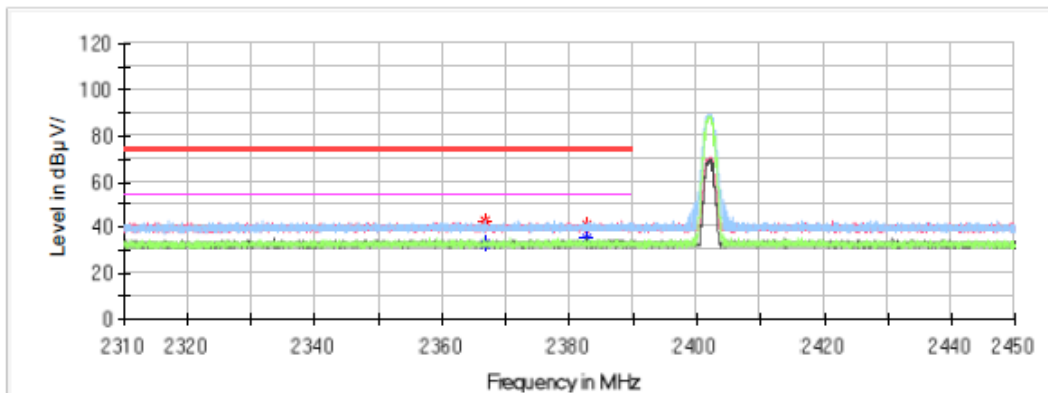
18GHz-25GHz:*Transmitting in maximum output power mode Middle channel***Horizontal:****Vertical:**

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20277.24	52.19	---	74	21.81	V	12.53
20277.24	---	42.28	54	11.72	V	12.53
20266.03	52.78	---	74	21.22	H	12.52
20266.03	---	42.6	54	11.4	H	12.52

Band Edge:**Low Channel****Common Information**

Project No.: RKSA240906001
Test Mode: BLE 1M
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum

**Critical_Freqs**

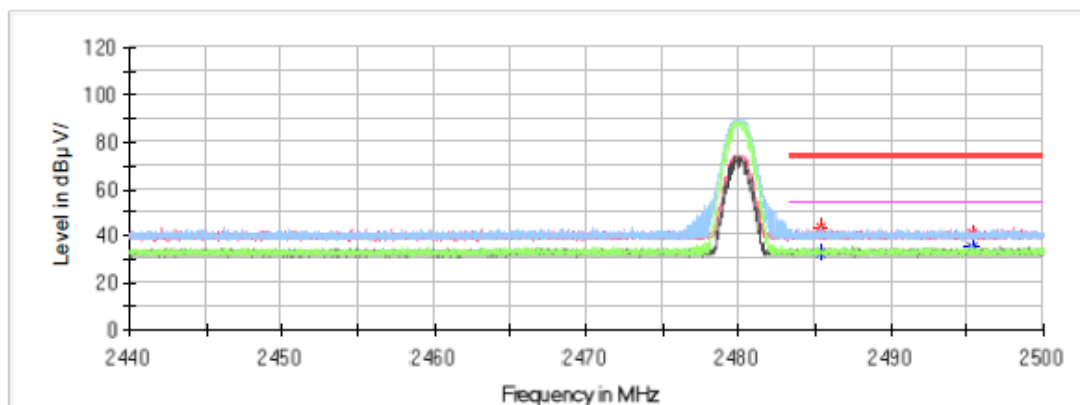
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2366.686000	42.74	---	74.00	31.26	H	-4.7
2366.686000	---	32.86	54.00	21.14	H	-4.7
2382.604000	41.11	---	74.00	32.89	V	-4.6
2382.604000	---	35.13	54.00	18.87	V	-4.6

High Channel

Common Information

Project No.: RKSA240906001
Test Mode: BLE 1M
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum



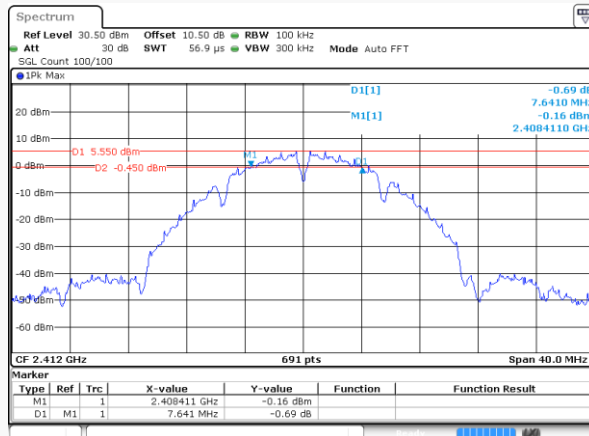
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2485.336000	43.39	---	74.00	30.61	H	-4.2
2485.336000	---	33.07	54.00	20.93	H	-4.2
2495.374000	40.98	---	74.00	33.02	H	-4.2
2495.374000	---	35.53	54.00	18.47	H	-4.2

6 dB EMISSION BANDWIDTH**Test Result:** Compliant.*EUT operation mode: Transmitting***For Wi-Fi Mode:**

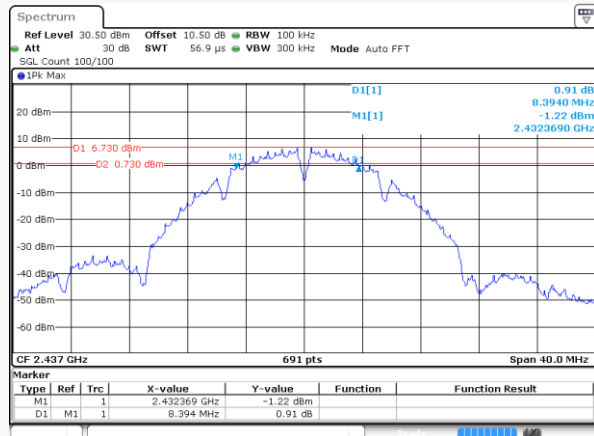
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
802.11b Mode			
Low	2412	7.641	≥ 0.5
Middle	2437	8.394	≥ 0.5
High	2462	9.146	≥ 0.5
802.11g Mode			
Low	2412	14.182	≥ 0.5
Middle	2437	14.182	≥ 0.5
High	2462	15.977	≥ 0.5
802.11n-HT20 Mode			
Low	2412	16.151	≥ 0.5
Middle	2437	16.042	≥ 0.5
High	2462	15.412	≥ 0.5
802.11n-HT40 Mode			
Low	2422	34.100	≥ 0.5
Middle	2437	35.770	≥ 0.5
High	2452	36.350	≥ 0.5

802.11b Mode Low Channel



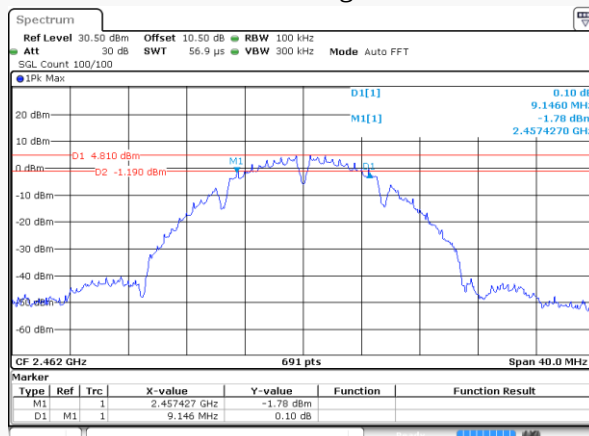
ProjectNo: RKSA240906001 Tester:Neil Zhou
Date: 17 JAN 2025 16:08:51

802.11b Mode Middle Channel



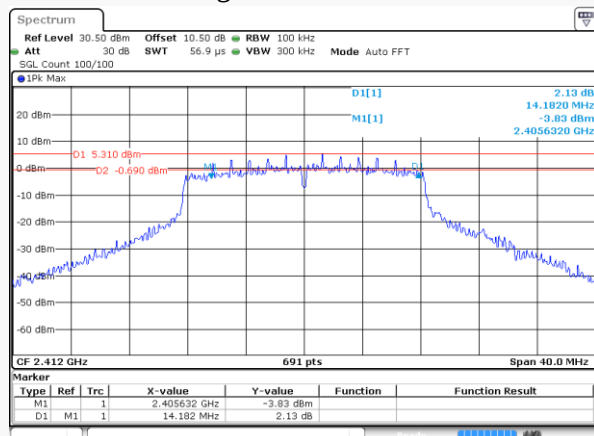
ProjectNo: RKSA240906001 Tester:Neil Zhou
Date: 17 JAN 2025 16:13:41

802.11b Mode High Channel



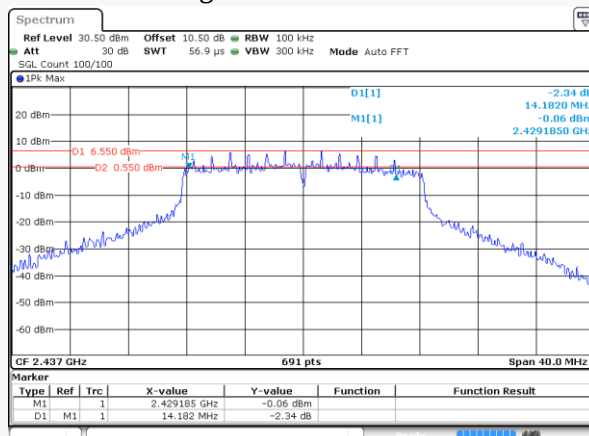
ProjectNo: RKSA240906001 Tester:Neil Zhou
Date: 17 JAN 2025 16:15:17

802.11g Mode Low Channel



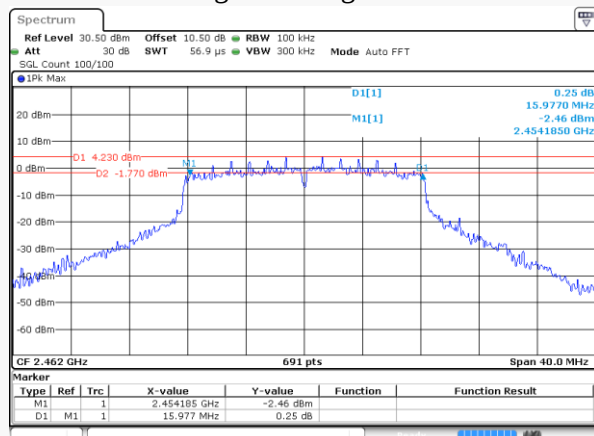
ProjectNo: RKSA240906001 Tester:Neil Zhou
Date: 17 JAN 2025 16:20:32

802.11g Mode Middle Channel



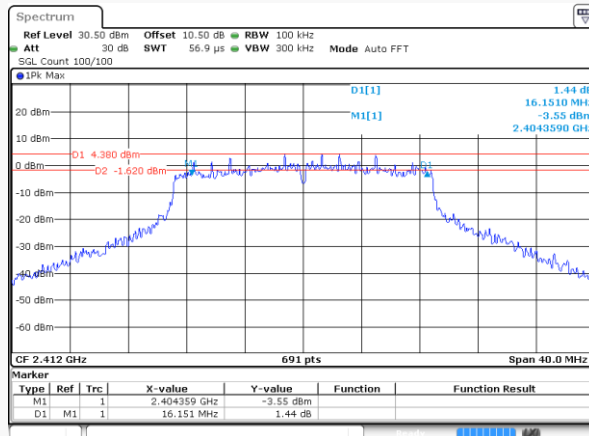
ProjectNo: RKSA240906001 Tester:Neil Zhou
Date: 17 JAN 2025 16:18:50

802.11g Mode High Channel



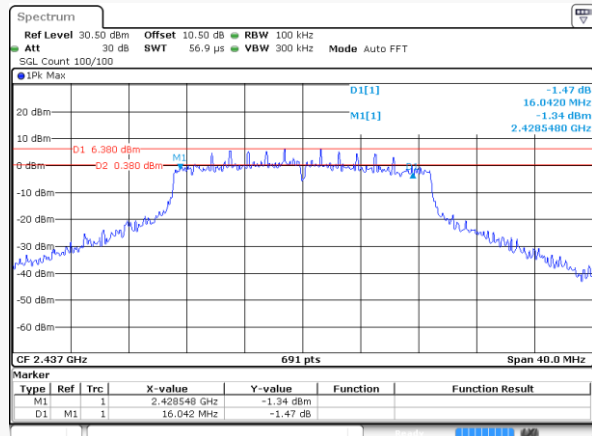
ProjectNo: RKSA240906001 Tester:Neil Zhou
Date: 17 JAN 2025 16:16:47

802.11n-HT20 Mode Low Channel



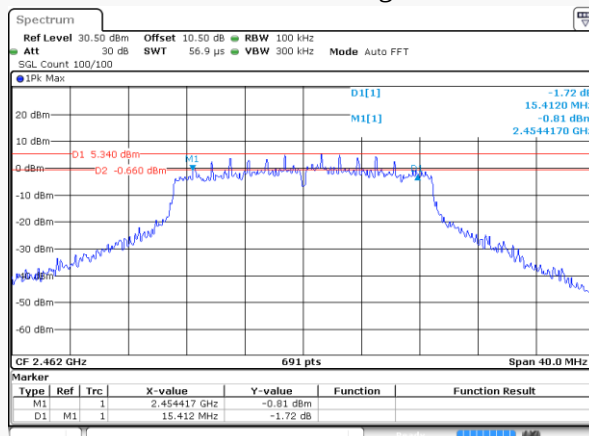
ProjectNo: RKSA240906001 Tester:Neil Zhou
Date: 17 JAN 2025 16:21:45

802.11n-HT20 Mode Middle Channel



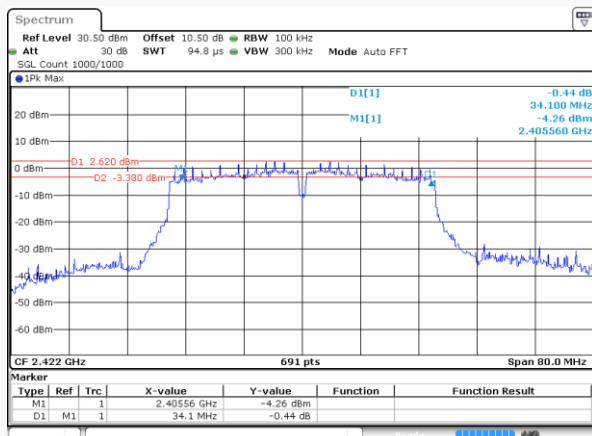
ProjectNo: RKSA240906001 Tester:Neil Zhou
Date: 17 JAN 2025 16:22:50

802.11n-HT20 Mode High Channel



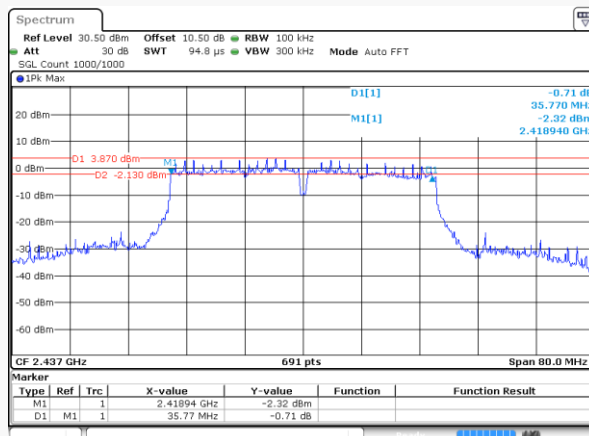
ProjectNo: RKSA240906001 Tester:Neil Zhou
Date: 17 JAN 2025 16:25:24

802.11n-HT40 Mode Low Channel



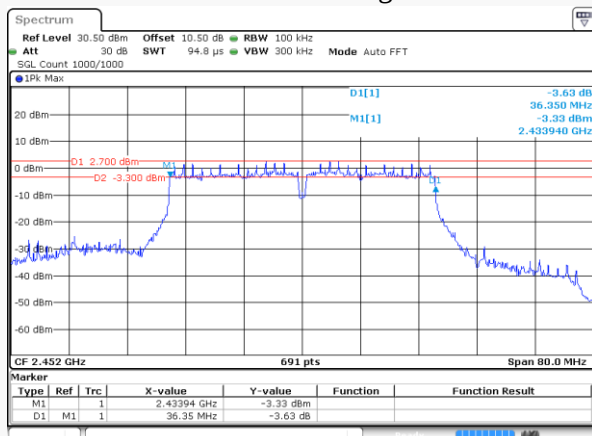
ProjectNo: RKSA240906001 Tester:Neil Zhou
Date: 17 JAN 2025 16:29:40

802.11n-HT40 Mode Middle Channel



ProjectNo: RKSA240906001 Tester:Neil Zhou
Date: 17 JAN 2025 16:28:38

802.11n-HT40 Mode High Channel

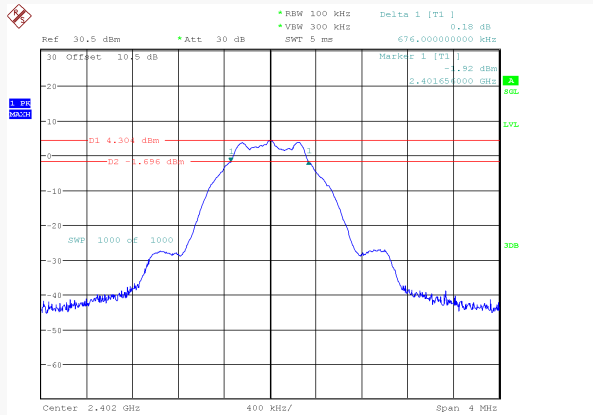


ProjectNo: RKSA240906001 Tester:Neil Zhou
Date: 17 JAN 2025 16:27:46

For BLE Mode:

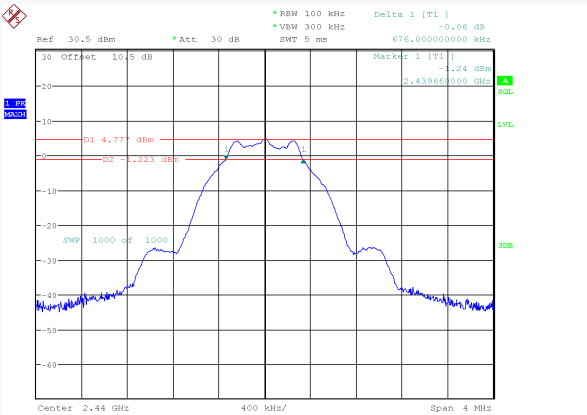
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
Low	2402	0.676	≥ 0.5
Middle	2440	0.676	≥ 0.5
High	2480	0.672	≥ 0.5

Low Channel



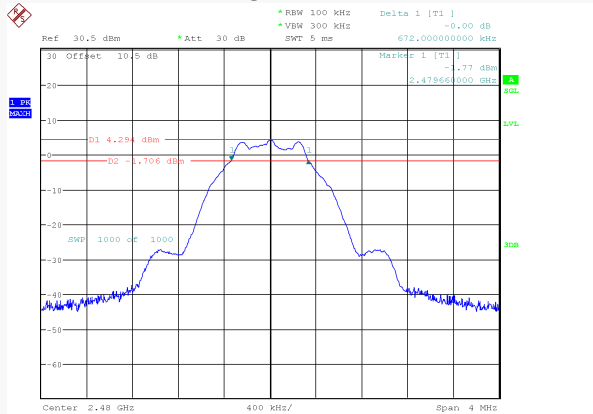
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 13:42:37

Middle Channel



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 13:52:20

High Channel

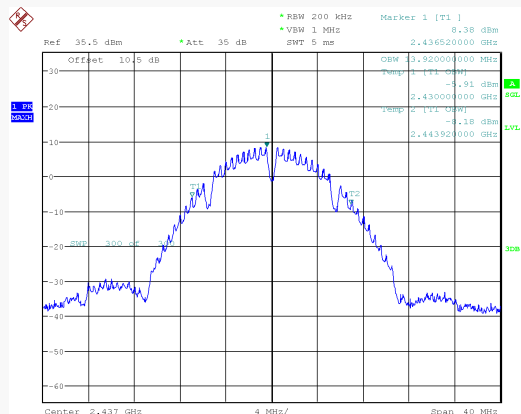


ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 13:58:06

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

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
802.11b Mode		
Low	2412	13.680
Middle	2437	13.920
High	2462	13.800
802.11g Mode		
Low	2412	16.600
Middle	2437	16.680
High	2462	16.600
802.11n-HT20 mode		
Low	2412	17.840
Middle	2437	17.880
High	2462	17.760
802.11n-HT40 mode		
Low	2422	36.240
Middle	2437	36.560
High	2452	36.560

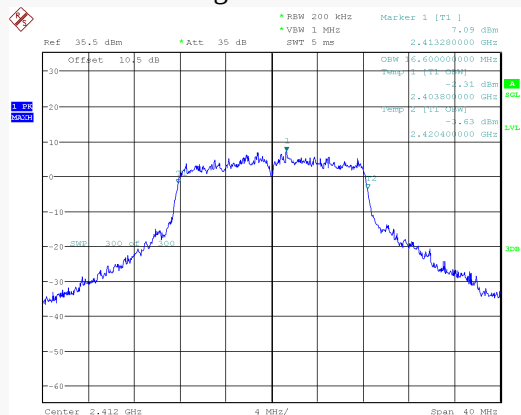
802.11b Mode Middle Channel



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 11:21:36

ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 11:34:21

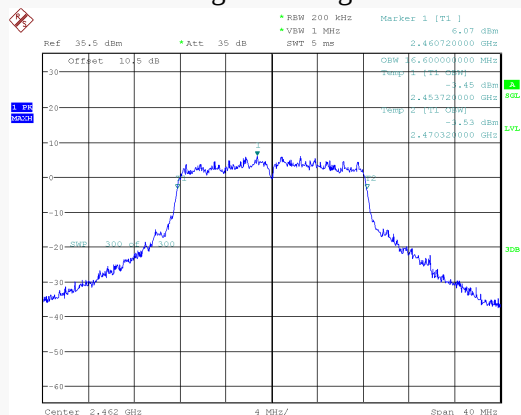
802.11g Mode Low Channel



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 11:48:30

ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 11:56:31

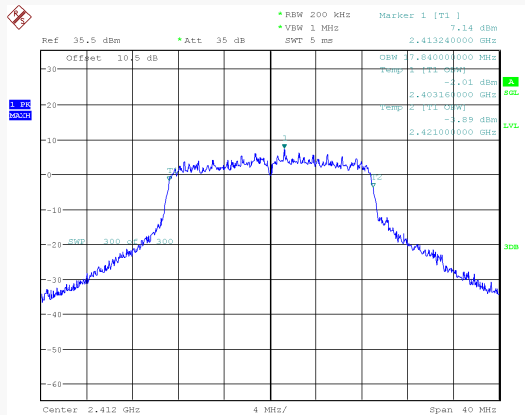
802.11g Mode High Channel



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:08:29

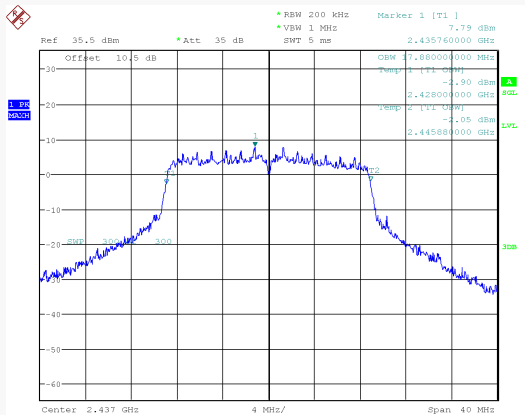
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:16:12

802.11n-HT20 Mode Low Channel



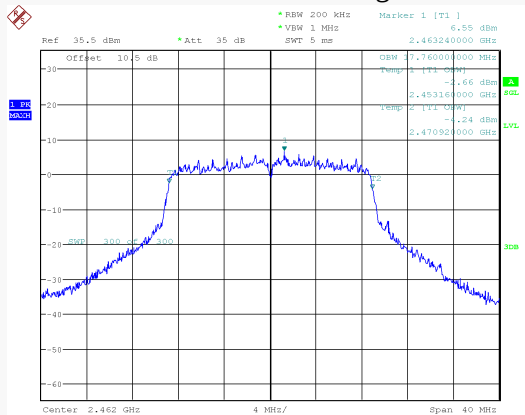
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:24:45

802.11n-HT20 Mode Middle Channel



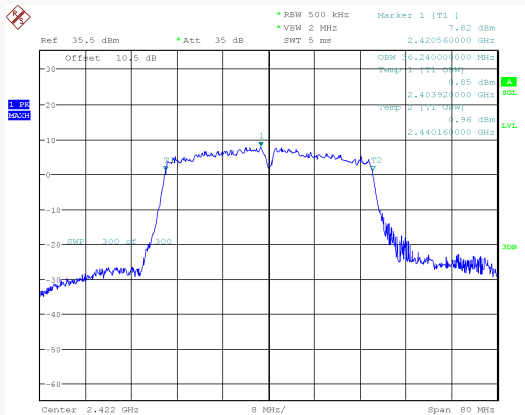
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:33:37

802.11n-HT20 Mode High Channel



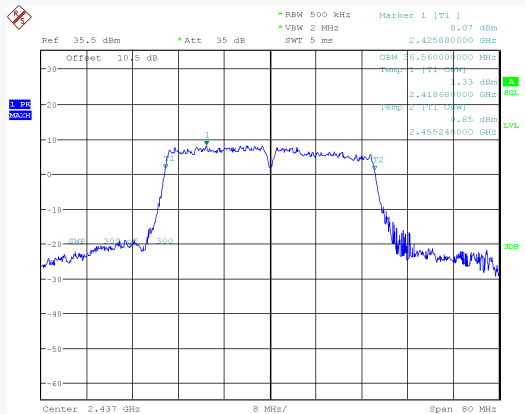
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:41:52

802.11n-HT40 Mode Low Channel



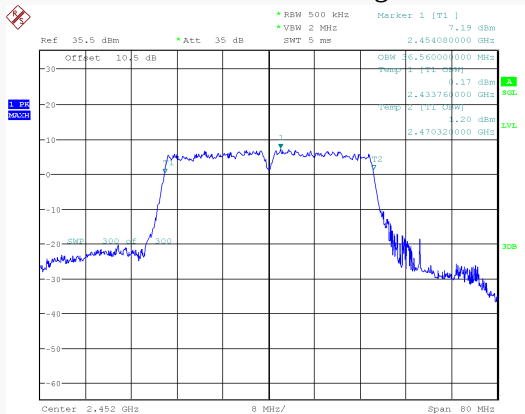
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:50:53

802.11n-HT40 Mode Middle Channel



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 14:05:28

802.11n-HT40 Mode High Channel

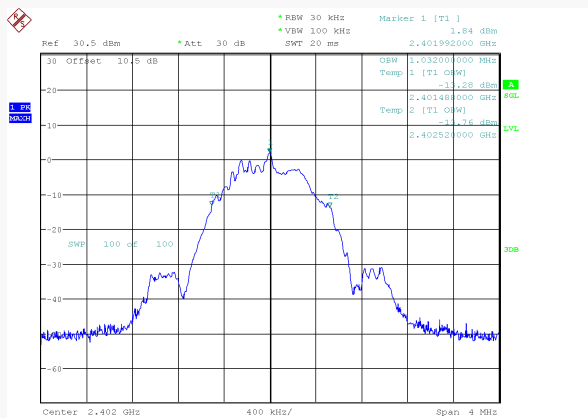


ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 14:18:56

For BLE Mode:

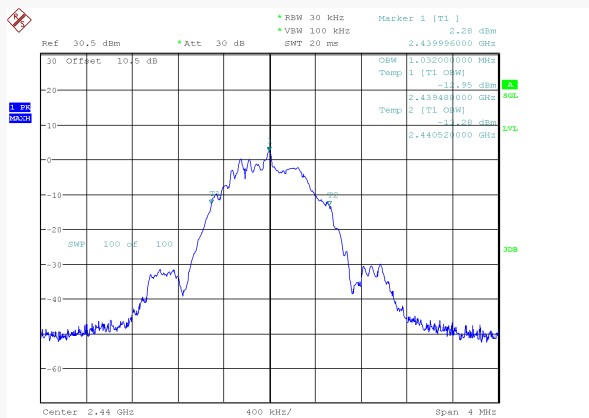
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
Low	2402	1.032
Middle	2440	1.032
High	2480	1.032

Low Channel



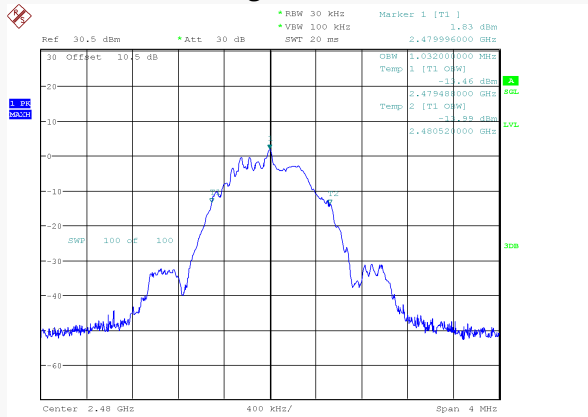
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:03:24

Middle Channel



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:05:24

High Channel

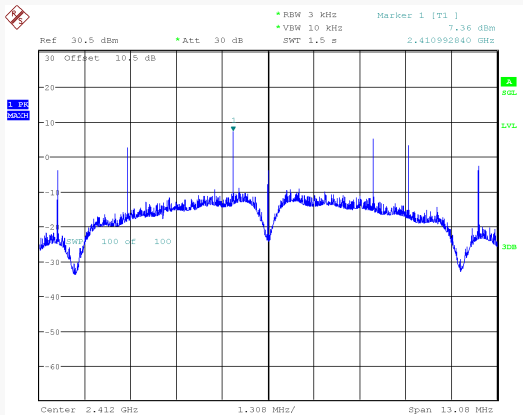


ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:13:08

POWER SPECTRAL DENSITY**Test Result:** Compliant.*EUT operation mode: Transmitting***For Wi-Fi Mode:**

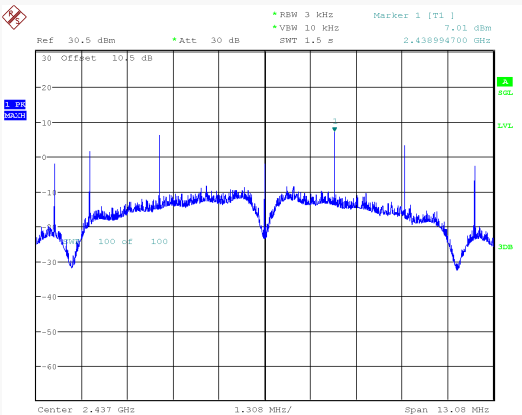
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b Mode			
Low	2412	7.36	≤ 8
Middle	2437	7.01	≤ 8
High	2462	5.74	≤ 8
802.11g Mode			
Low	2412	-10.50	≤ 8
Middle	2437	-9.92	≤ 8
High	2462	-11.34	≤ 8
802.11n-HT20 mode			
Low	2412	-9.76	≤ 8
Middle	2437	-9.18	≤ 8
High	2462	-10.16	≤ 8
802.11n-HT40 mode			
Low	2422	-11.09	≤ 8
Middle	2437	-10.40	≤ 8
High	2452	-11.67	≤ 8

802.11b Low Channel



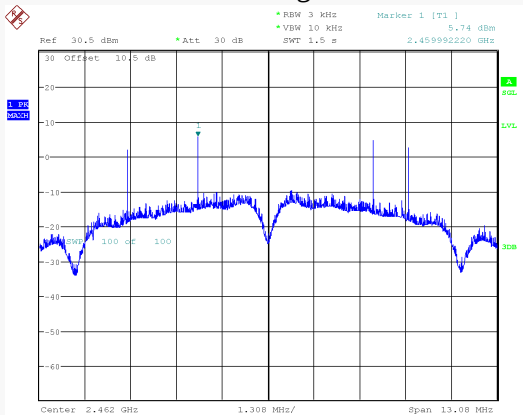
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 11:32:05

802.11b Middle Channel



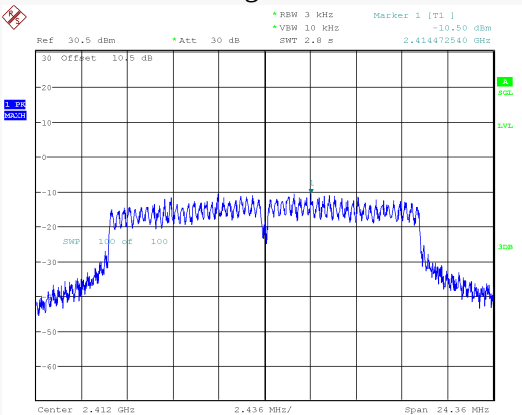
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 11:46:19

802.11b High Channel



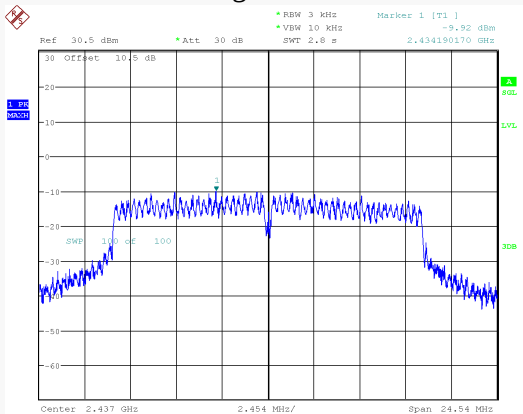
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 11:53:13

802.11g Low Channel



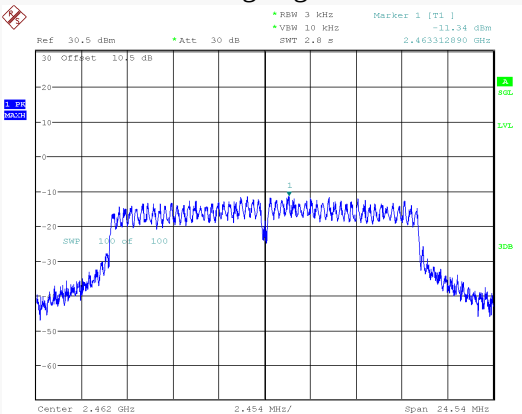
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 12:03:31

802.11g Middle Channel



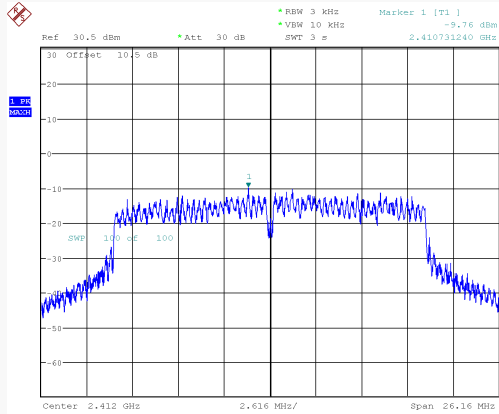
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:14:33

802.11g High Channel



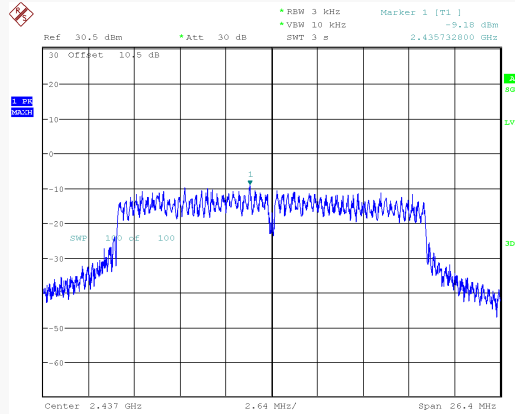
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:23:06

802.11n-HT20 Low Channel



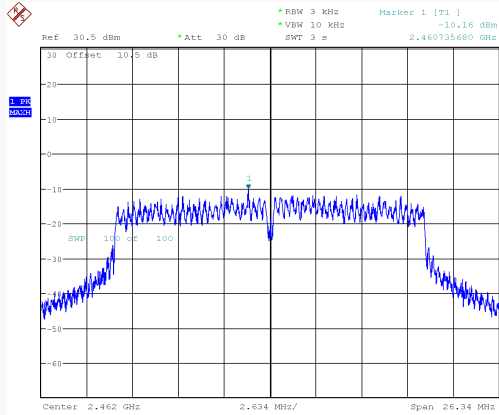
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:32:07

802.11n-HT20 Middle Channel



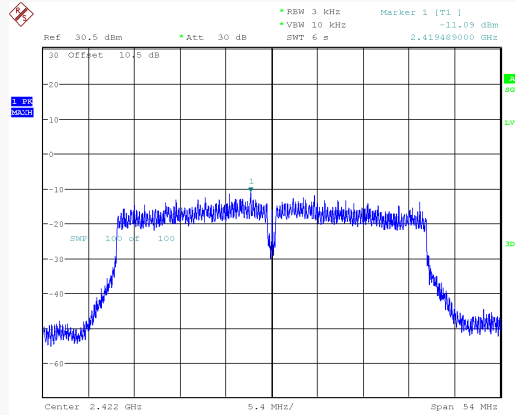
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:40:02

802.11n-HT20 High Channel



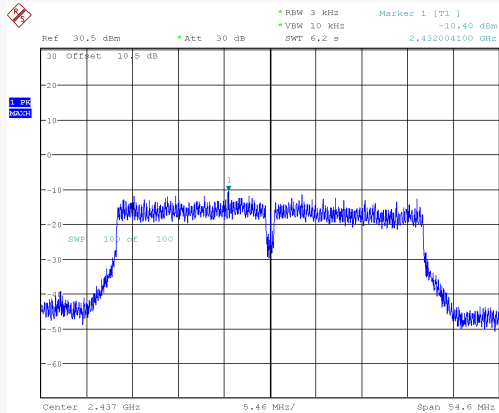
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:49:08

802.11n-HT40 Low Channel



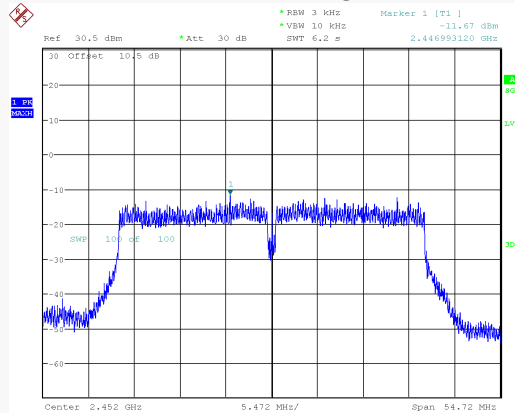
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 14:03:17

802.11n-HT40 Middle Channel



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 14:17:23

802.11n-HT40 High Channel

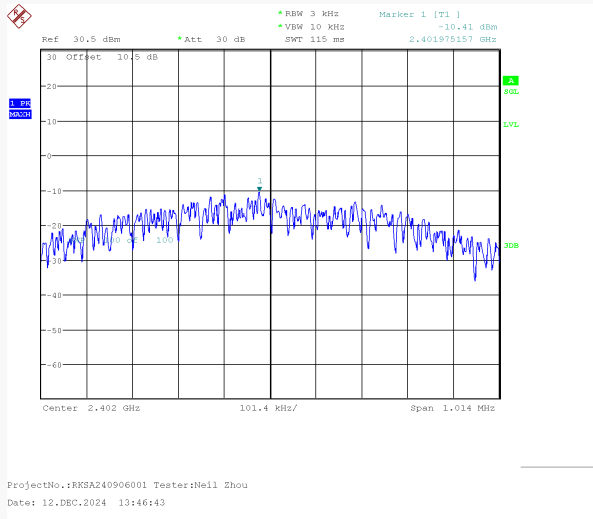


ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 14:31:36

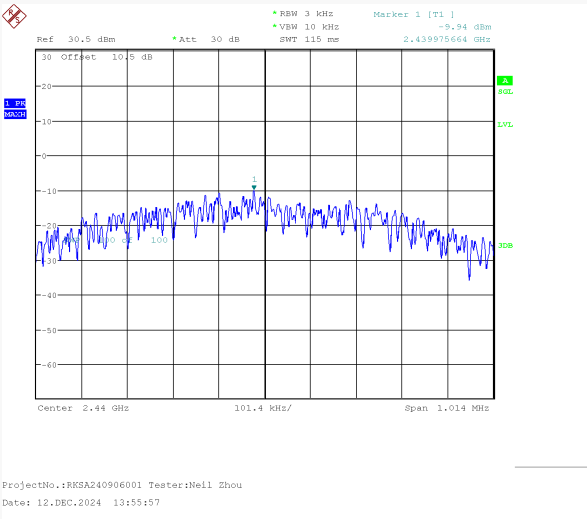
For BLE Mode:

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
Low	2402	-10.41	≤8
Middle	2440	-9.94	≤8
High	2480	-10.45	≤8

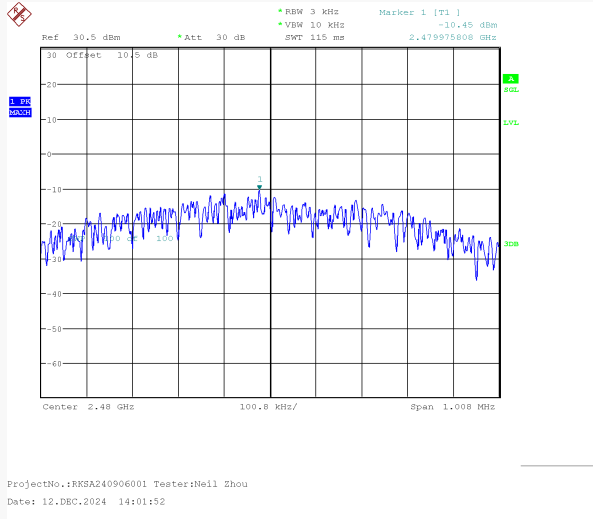
Low Channel



Middle Channel



High Channel

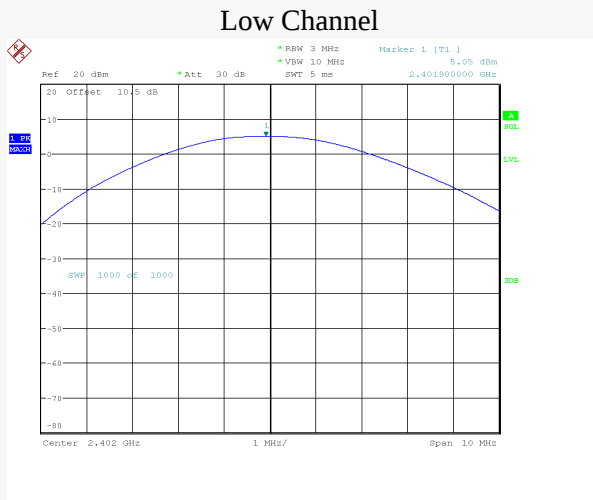


TRANSMITTER OUTPUT POWER MEASUREMENT**For Wi-Fi Mode:**

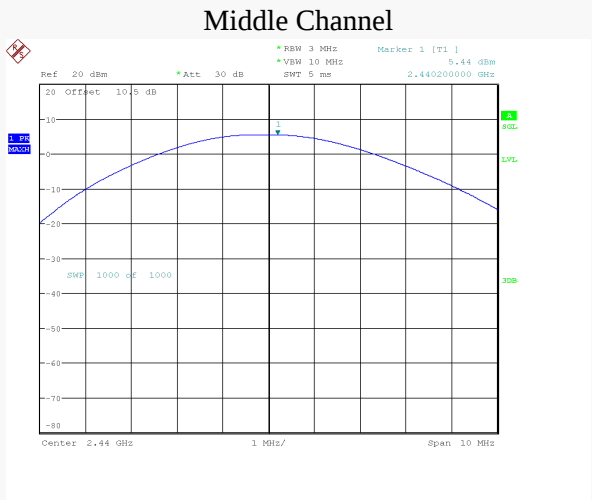
Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)
802.11b Mode				
Low	2412	13.997	11.625	≤30
Middle	2437	15.026	12.696	≤30
High	2462	13.574	11.250	≤30
802.11g Mode				
Low	2412	15.611	11.171	≤30
Middle	2437	16.626	12.265	≤30
High	2462	15.506	10.929	≤30
802.11n-HT20 Mode				
Low	2412	15.643	10.999	≤30
Middle	2437	16.647	12.088	≤30
High	2462	15.584	10.740	≤30
802.11n-HT40 Mode				
Low	2422	17.716	11.953	≤30
Middle	2437	18.347	12.830	≤30
High	2452	17.964	12.043	≤30

For BLE Mode:

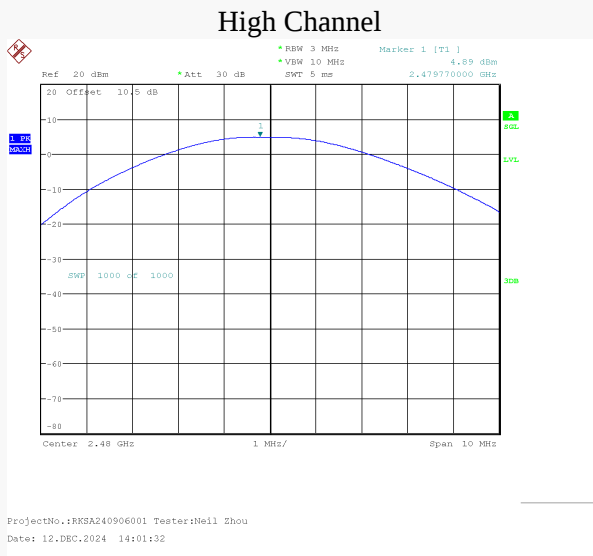
Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Peak Output Power Limit (dBm)
Low	2402	5.05	≤30
Middle	2440	5.44	≤30
High	2480	4.89	≤30



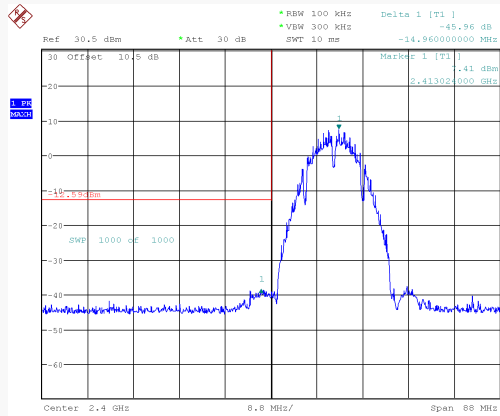
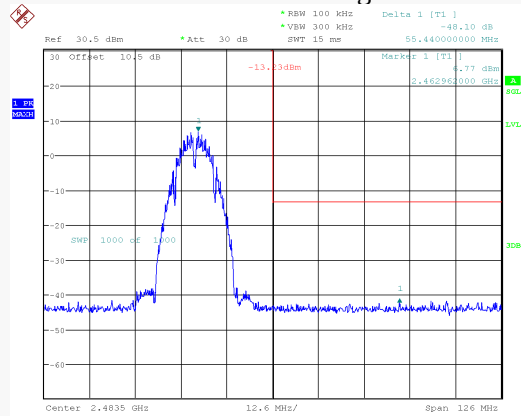
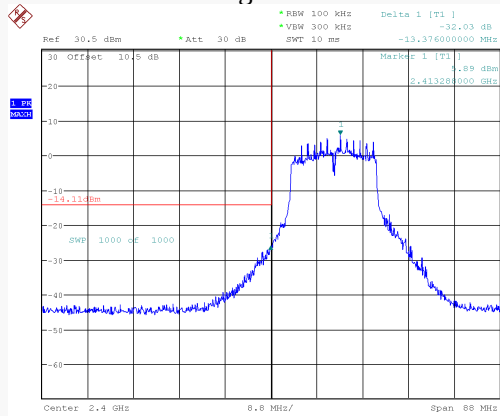
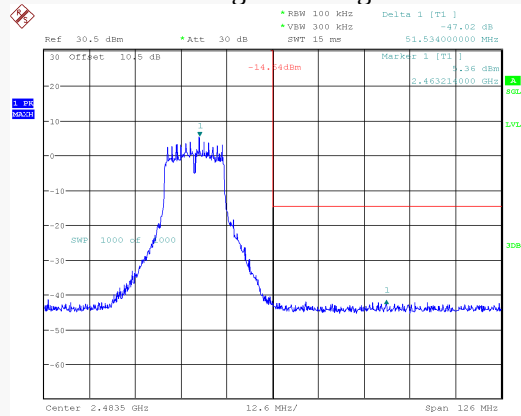
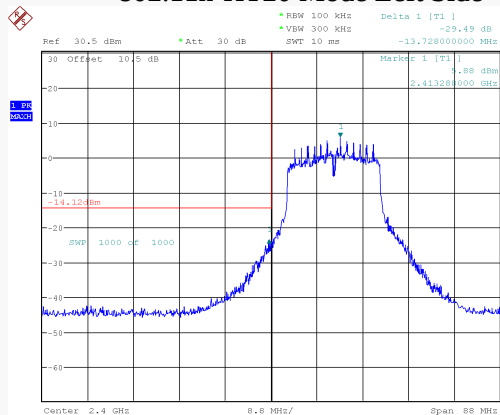
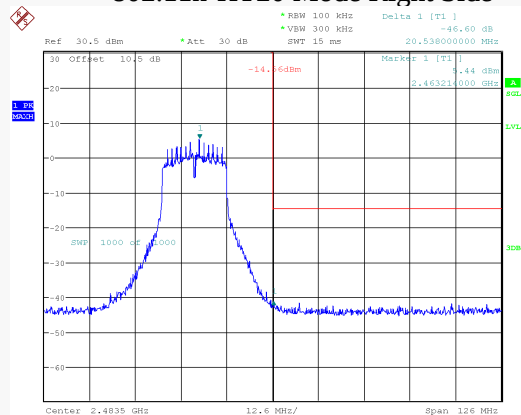
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 13:46:24



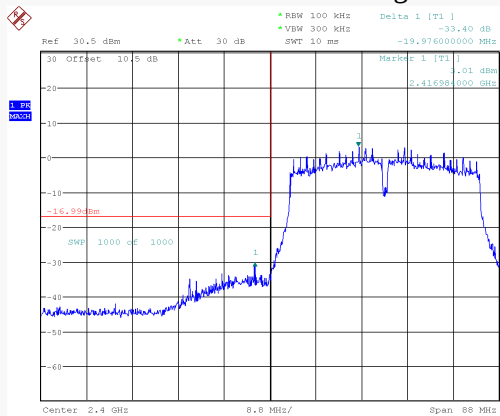
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 13:55:37



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 12.DEC.2024 14:01:32

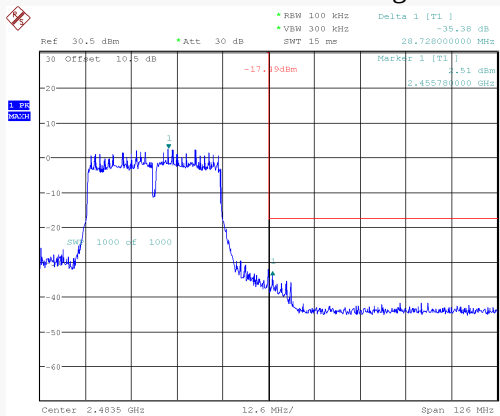
OUT OF BAND EMISSIONS*EUT operation mode: Transmitting***For Wi-Fi Mode:****802.11b Mode Left Side**ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 11:23:44**802.11b Mode Right Side**ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 11:49:52**802.11g Mode Left Side**ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 11:57:59**802.11g Mode Right Side**ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:17:34**802.11n-HT20 Mode Left Side**ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:26:13**802.11n-HT20 Mode Right Side**ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:43:15

802.11n-HT40 Mode Right Side



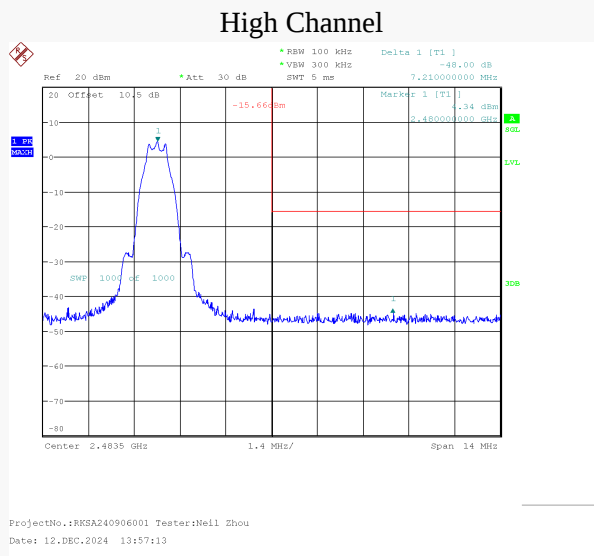
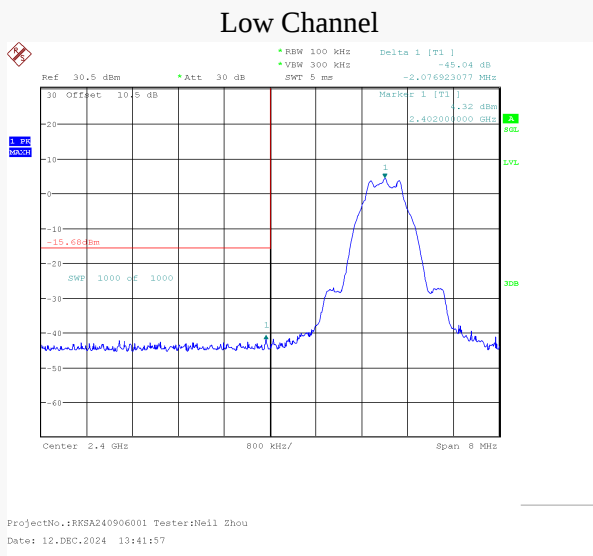
ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 13:52:22

802.11n-HT40 Mode Right Side



ProjectNo.:RKSA240906001 Tester:Neil Zhou
Date: 11.DEC.2024 14:20:19

For BLE Mode:



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 E - TEST SETUP PHOTOGRAPHS.

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 *******