

FCC PART 15.407

TEST REPORT

For

Feitian Technologies Co., Ltd.

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

FCC ID: ZD3FTF310P

Report Type: Original Report	Product Name: Android POS Terminal
Report Number:	<u>RKSA240112001-00D</u>
Report Date:	<u>2024-06-28</u>
Reviewed By:	<u>Jenny Yang</u> Jenny Yang
Approved By:	<u>Kyle Xu</u> Kyle Xu
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S. Government.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA240112001-00D	R1 V1	2024-06-28	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Feitian Technologies Co., Ltd.	
Tested Model:	F310 P	
Series Model:	F310	
Model Difference:	Model name, see the declaration letter for details	
Product Name:	Android POS Terminal	
Power Supply:	DC 3.8V from battery or DC 5V charging by adapter	
Maximum Average Output Power	5G Wi-Fi B1:	5G Wi-Fi B4:
	802.11a:8.11 dBm	7.38 dBm
	802.11ac20:6.69 dBm	5.57 dBm
	802.11n-HT20:6.80 dBm	6.02 Bm
	802.11ac40:5.95 dBm	4.61 dBm
	802.11n-HT40:6.17 dBm	4.76 dBm
	802.11ac80:4.91 dBm	3.71 dBm
Operating Frequency	5G Wi-Fi B1: 5180-5240 MHz, B4: 5745-5825 MHz	
Channel Number	5G Wi-Fi B1: 7, B4: 8	
Channel Separation	5G Wi-Fi: a/ac20/n20: 20 MHz, ac40/n40: 40 MHz, ac80: 80 MHz	
Modulation Type	OFDM	
Antenna Type	FPC Antenna	
★Maximum Antenna Gain	Band 1: -1.91 dBi; Band 4:-0.73 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: RKSA240112001-1 (with 5000mA battery) (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2024-01-12.)

Objective

This type approval report is prepared for *Feitian Technologies Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions' rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

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

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Kunshan).

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
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

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

For **5150~5250 MHz** band, test channel list is as below,

802.11a/ac20/n20 mode Channel 36, 40, 48 were tested.

802.11n40/ac40 mode Channel 38, 46 were tested.

802.11ac80 mode Channel 42 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For **5725~5850 MHz** band,

802.11a/ac20/n20 mode Channel 149, 157, 165 were tested.

802.11n40/ac40 mode Channel 151, 159 were tested.

802.11ac80 mode Channel 155 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	159	5795
151	5755	161	5805
153	5765	165	5825
155	5775	/	/
157	5785	/	/

EUT Exercise Software

RF test tool: QRCT 4

The worst case was performed under:

U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5150~5250MHz	802.11a	6Mbps	15	15	15
	802.11n-HT20	MCS0	13	13	13
	802.11n-HT40	MCS0	13	13	13
	802.11ac-VHT20	MCS0	13	13	13
	802.11ac-VHT40	MCS0	13	/	13
	802.11ac-VHT80	MCS0	/	13	/

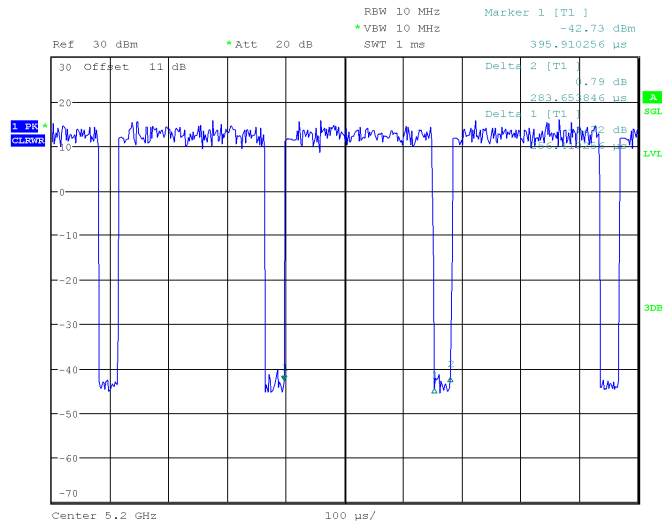
U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5725~5850MHz	802.11a	6Mbps	15	15	15
	802.11n-HT20	MCS0	13	13	13
	802.11n-HT40	MCS0	13	13	13
	802.11ac-VHT20	MCS0	13	13	13
	802.11ac-VHT40	MCS0	13	/	13
	802.11ac-VHT80	MCS0	/	13	/

Note: The power level was declared by the applicant.

Duty Cycle

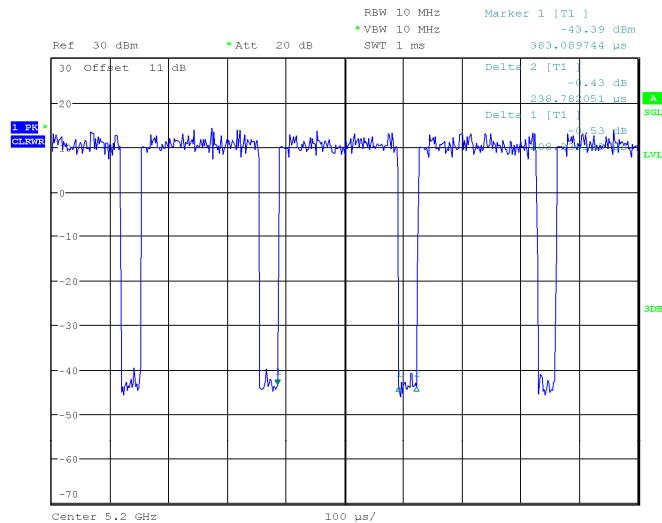
5150MHz-5250MHz Band:

802.11a mode



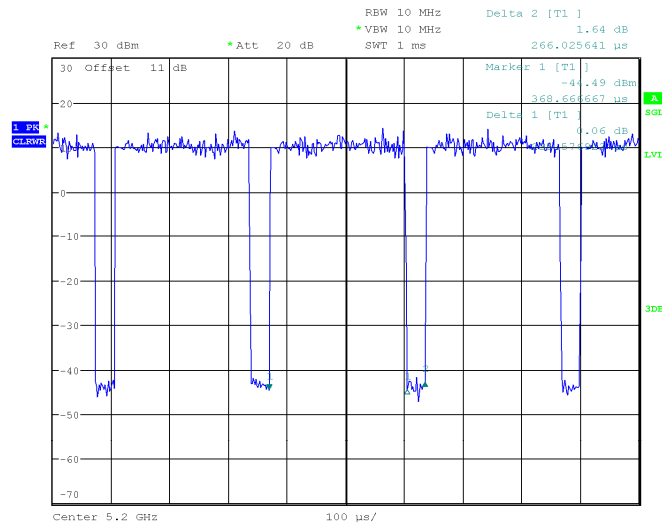
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 16.APR.2024 19:45:59

802.11ac20 mode



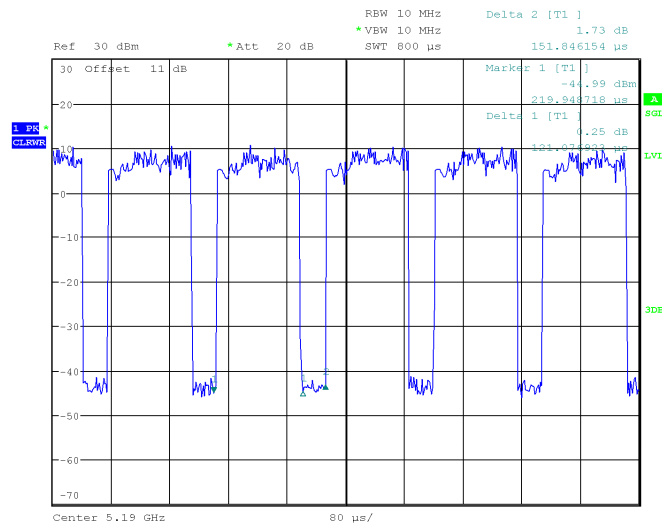
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802.11n-HT20 mode



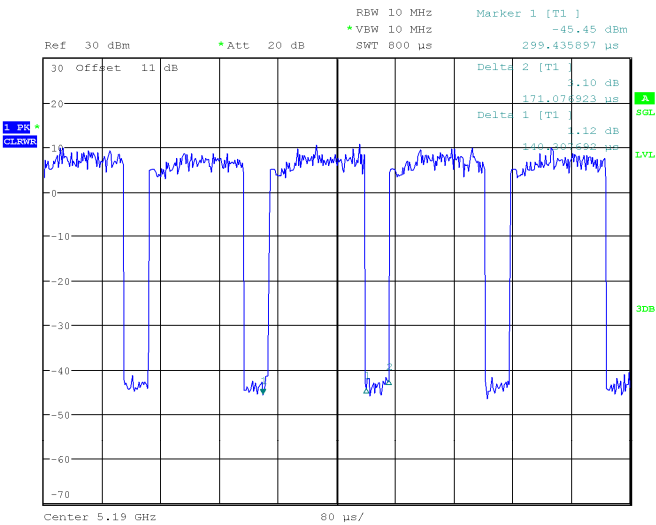
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802.11ac40 mode



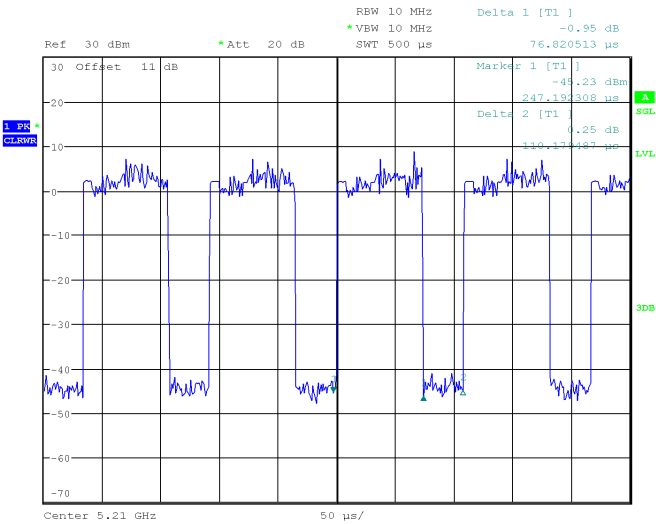
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Date: 16.APR.2024 20:01:44

802.11n-HT40 mode



ProjectNo.:RKSA240112001 Tester:Jenny Yang
Date: 16.APR.2024 19:57:38

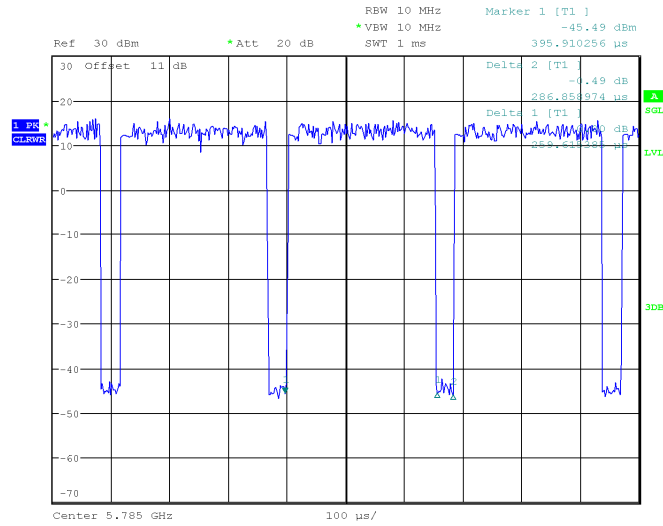
802.11ac80 mode



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Date: 16.APR.2024 20:03:19

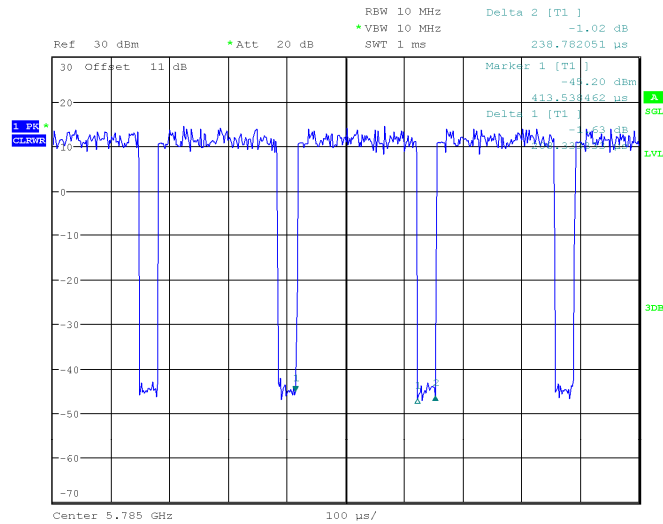
5725MHz-5850MHz Band:

802.11a mode



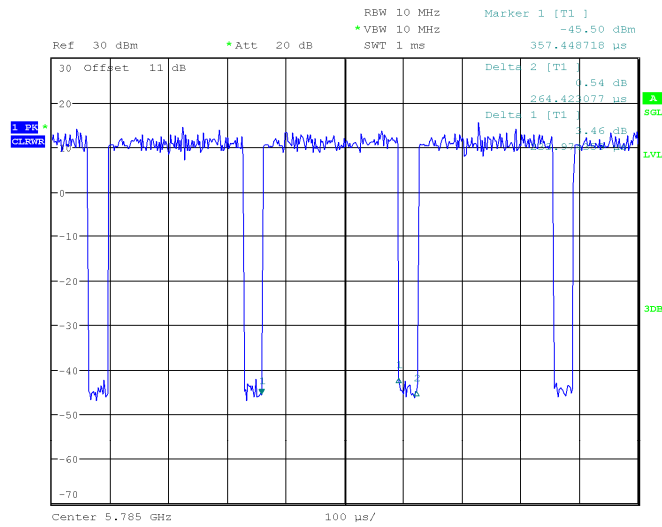
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 Date: 16.APR.2024 19:48:27

802.11ac20 mode



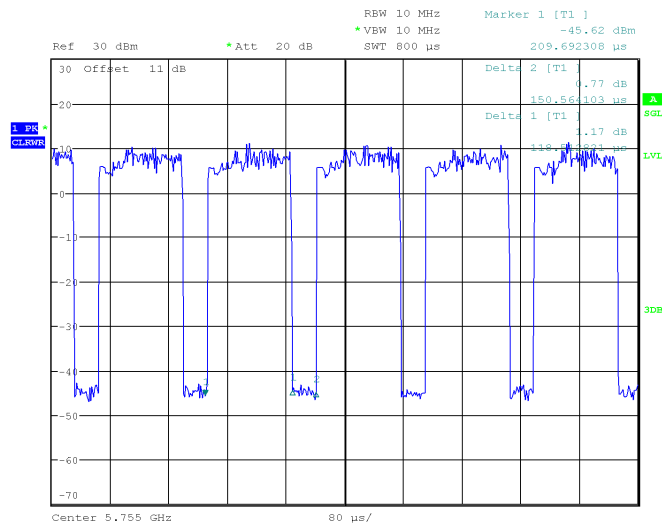
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 16.APR.2024 19:55:06

802.11n-HT20 mode



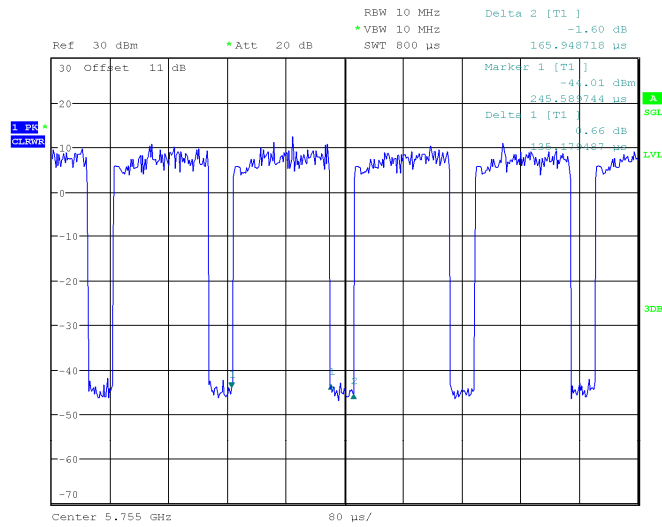
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Date: 16.APR.2024 19:51:27

802.11ac40 mode



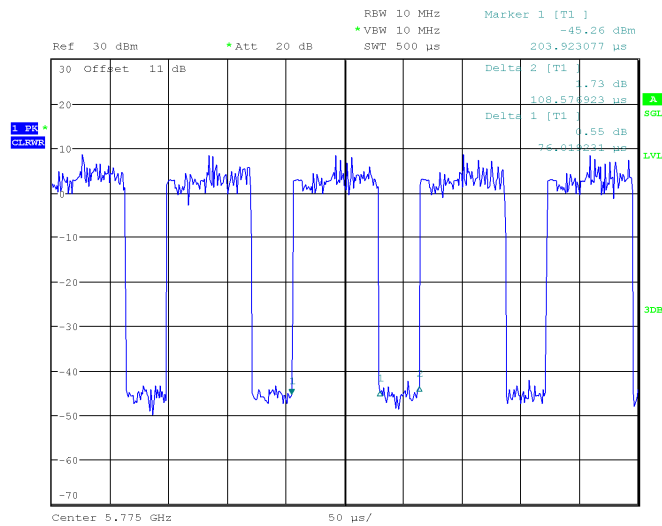
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Date: 16.APR.2024 20:00:35

802.11n-HT40 mode



ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 16.APR.2024 19:59:09

802.11ac80 mode



ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 16.APR.2024 20:04:50

Test Mode	Channel (MHz)	Duty Cycle (%)	Ton(ms)	Ton+off(ms)	10log(1/x)
802.11a	5200	90.14	0.256	0.284	0.45
	5785	90.59	0.260	0.287	0.43
802.11ac-VHT20	5200	87.03	0.208	0.239	0.60
	5785	87.03	0.208	0.239	0.60
802.11n-HT20	5200	87.72	0.236	0.266	0.57
	5785	88.64	0.234	0.264	0.52
802.11ac-VHT40	5190	79.61	0.121	0.152	0.99
	5755	78.81	0.119	0.151	1.03
802.11n-HT40	5190	81.87	0.140	0.171	0.87
	5755	81.33	0.135	0.166	0.90
802.11ac-VHT80	5210	70.00	0.077	0.110	1.55
	5775	69.72	0.076	0.109	1.57

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

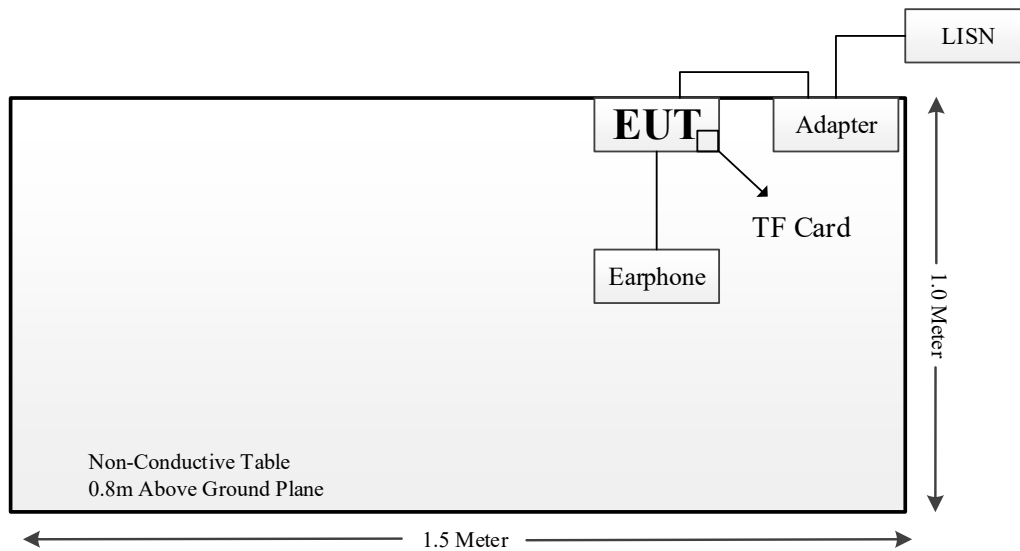
Manufacturer	Description	Model	Serial Number
Unknown	Earphone	Unknown	Unknown
Unknown	TF Card	Unknown	Unknown

External I/O Cable

Cable Description	Length (m)	From Port	To
Power Cable	1.0	AC Source/LISN	Adapter
USB Cable	1.5	Adapter	EUT
Audio Cable	1.0	EUT	Earphone

Block Diagram of Test Setup

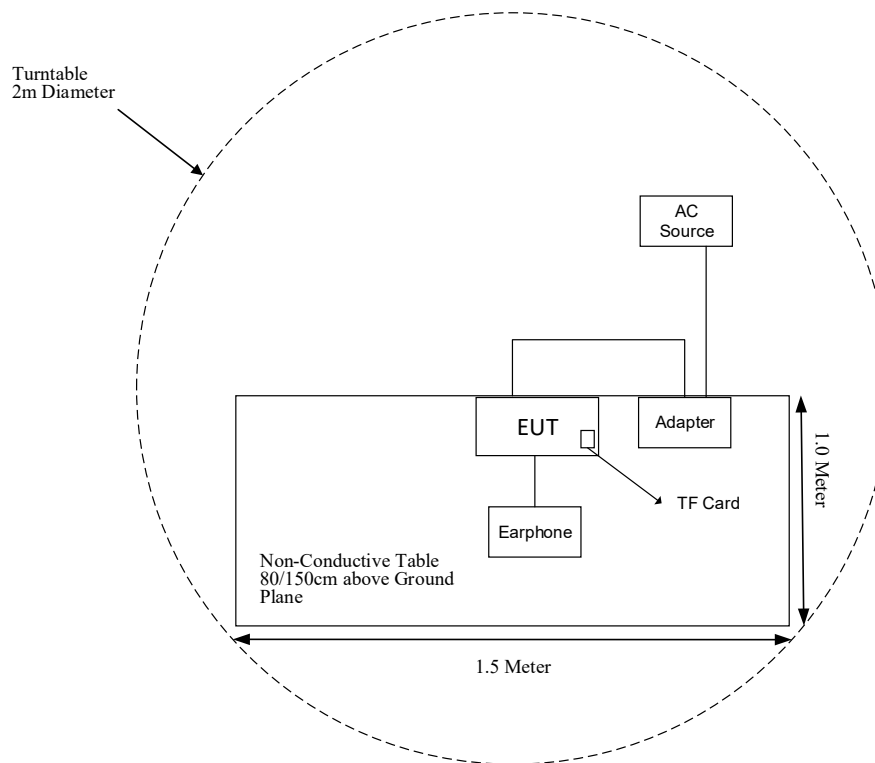
For Conducted Emissions:



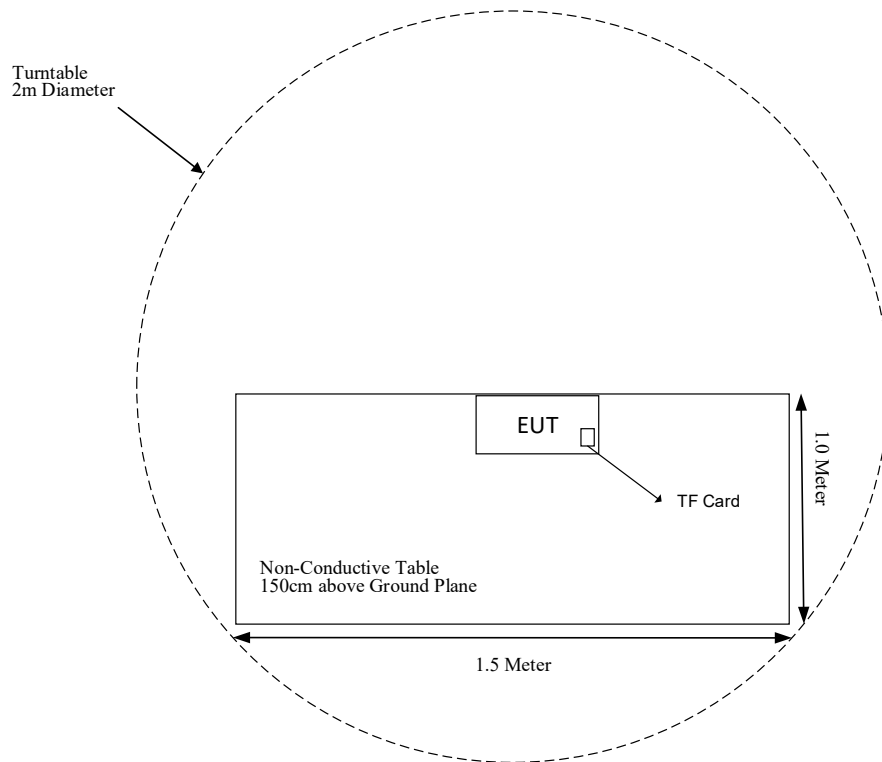
For Radiated Emissions

Below 1GHz & 1GHz-18 GHz:

EUT on Non-Conductive Table 80 or 150cm above Ground Plane



18-40GHz



TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2023-05-23	2024-05-22
Sunol Sciences	Hybrid Antenna	JB3	A090314-1	2023-11-11	2024-11-10
ETS-LINDGREN	Loop Antenna	6512	108100	2023-11-09	2024-11-08
Sonoma Instrument	Amplifier	310N	171205	2023-05-23	2024-05-22
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-9	009	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-10	010	2023-05-23	2024-05-22
Narda	6dB Attenuator	773-6	10690812-2-1	2023-11-11	2024-11-10
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2023-05-19	2024-05-18
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2023-12-02	2024-12-01
ETS-LINDGREN	Horn Antenna	3116	84159	2023-12-07	2024-12-06
A.H.Systems,inc	Amplifier	PAM-0118P	512	2023-05-23	2024-05-22
EM Electronics Corporation	Amplifier	EM18G40G	060726	2023-05-23	2024-05-22
MICRO-TRONICS	Band Reject Filter	BRC50703	G094	2023-05-23	2024-05-22
MICRO-TRONICS	Band Reject Filter	BRC50705	G085	2023-05-23	2024-05-22
Narda	Attenuator	10dB	010	2023-05-23	2024-05-22
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-11	011	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-12	012	2023-05-23	2024-05-22
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2023-05-23	2024-05-22
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2024-04-24	2025-04-23
Anritsu	Power Sensor	MA24418A	12621	2023-09-27	2024-09-26
Narda	Attenuator	10dB	010	2023-05-23	2024-05-22
Narda	Attenuator	10dB	010	2024-05-23	2025-05-22
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	101746	2023-05-23	2024-05-22
Rohde & Schwarz	LISN	ENV216	101115	2023-05-23	2024-05-22
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse Limiter	ESH3-Z2	0357.8810.54	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-15	015	2023-05-23	2024-05-22

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).

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207 & §15.407(b) (9)	AC Power Line Conducted Emissions	Compliant
§ 15.205 & §15.209 & §15.407(b)	Undesirable Emission & Restricted Bands	Compliant
§§15.407(a) & §15.407(e)	Emission Bandwidth	Compliant
§15.407(a)	Conducted Transmitter Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant

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 compliance 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 15.407, 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

Antenna permanently attached to the unit. fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Frequency Range	Max. Antenna Gain	Input impedance
FPC	5150~5250 MHz	-1.91 dBi	50Ω
	5725~5850 MHz	-0.73 dBi	50Ω

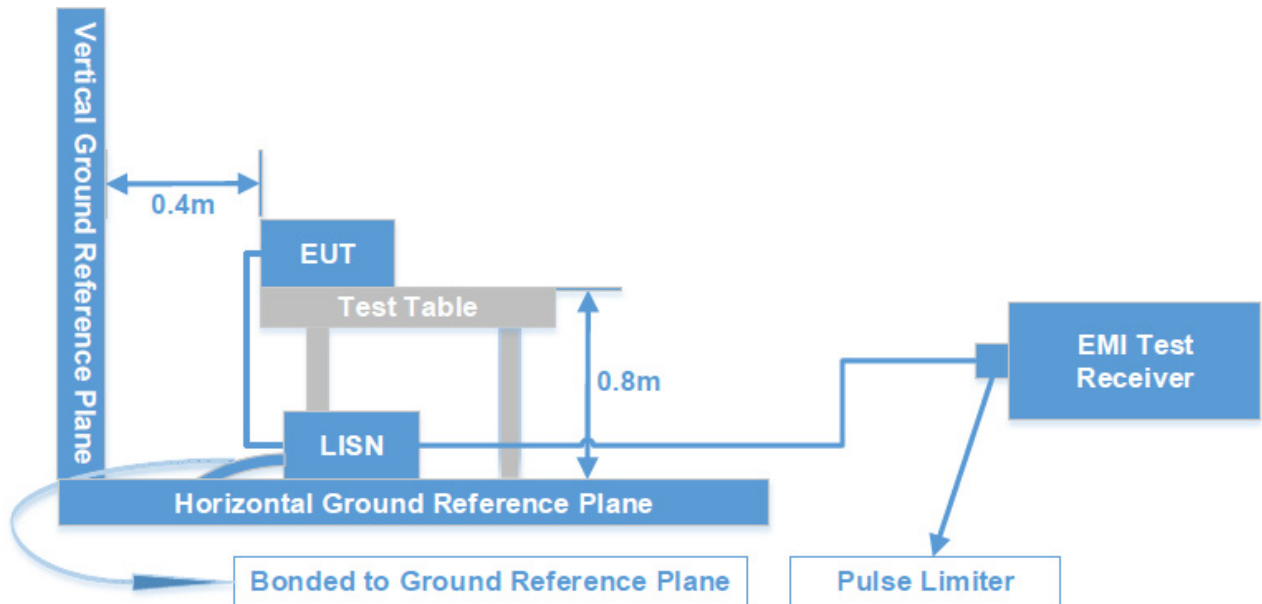
Result: Compliant.

FCC §15.407 (b) (9) §15.207 (a) – AC POWER LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a), §15.407(b) (9)

Test System Setup



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

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

During the conducted emission test, the EUT or adapter was connected to 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

§15.205 & §15.209 & §15.407(B) – UNDESIRABLE EMISSION & RESTRICTED BANDS

Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.725-5.85 GHz band:

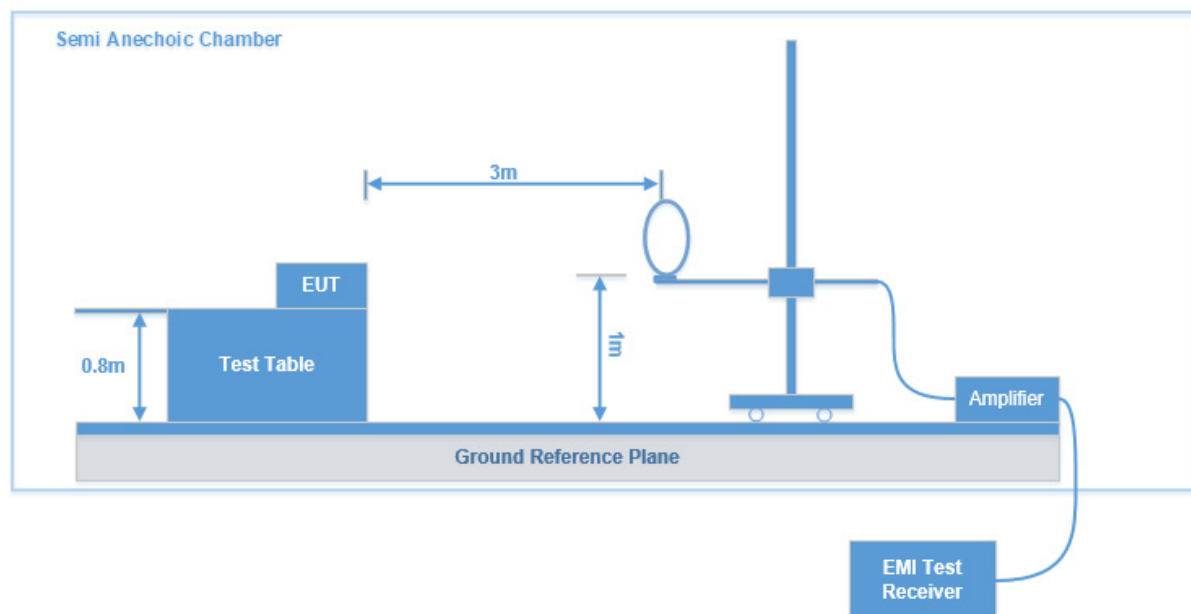
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000MHz shall be performed using a minimum resolution bandwidth of 1MHz.

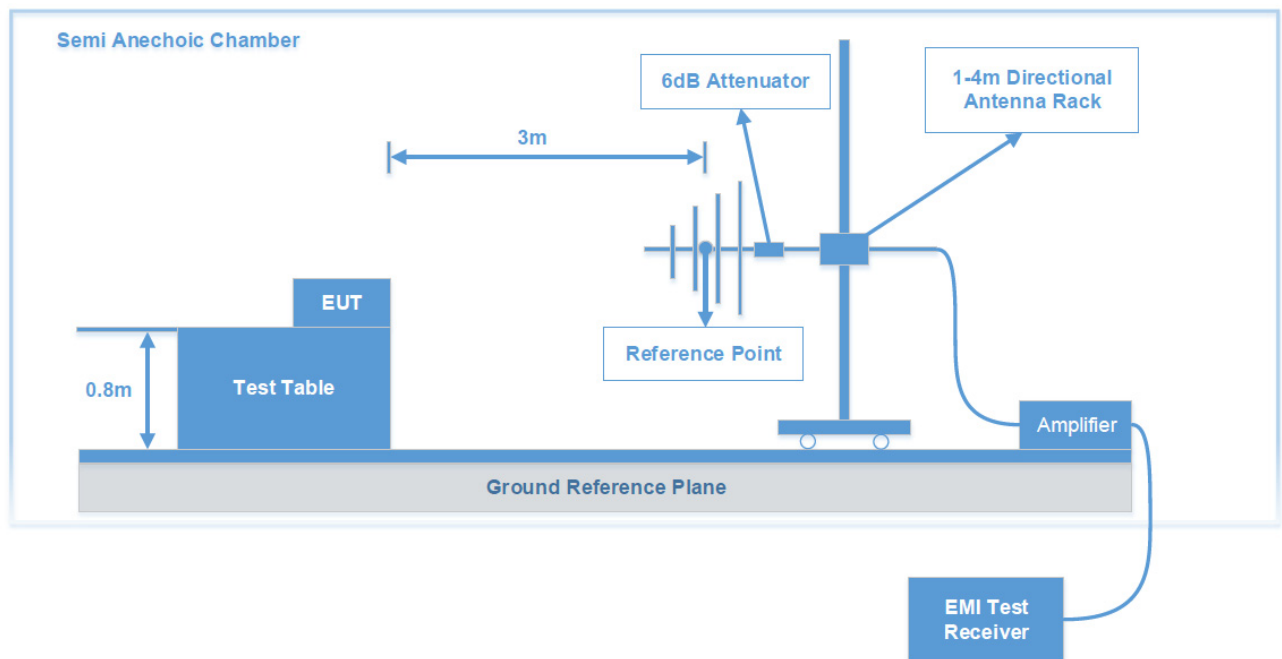
According to 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E \text{ [dB}\mu\text{V/m]} = \text{EIRP [dBm]} + 95.2$, for $d = 3$ meters.

Test System Setup

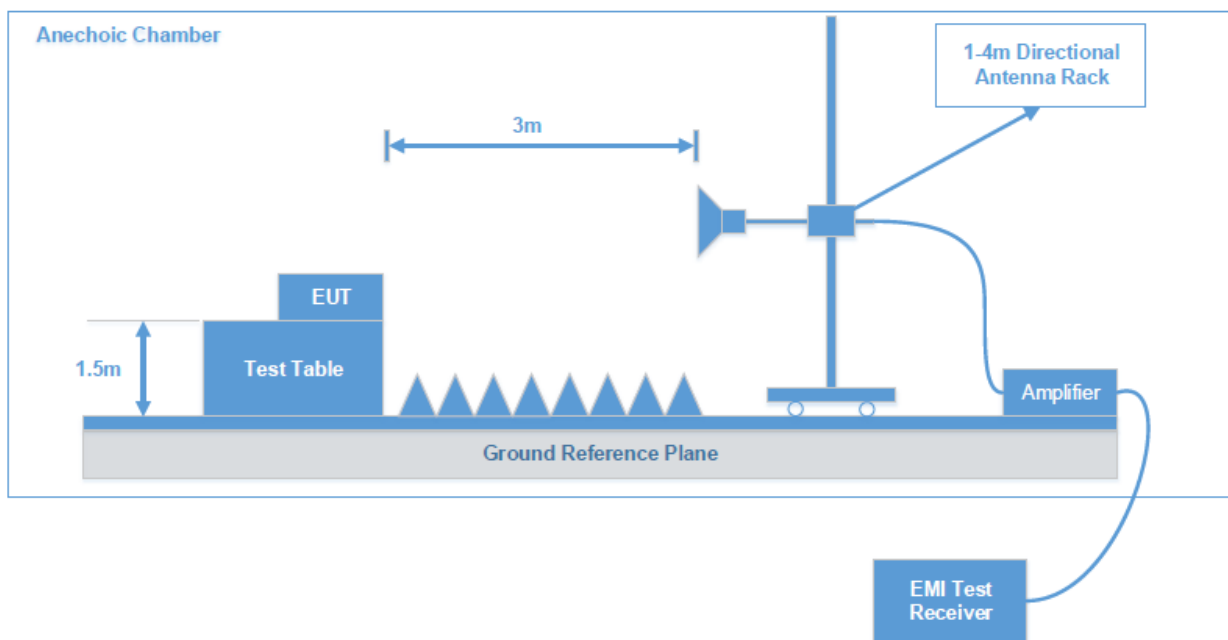
90kHz–30 MHz:



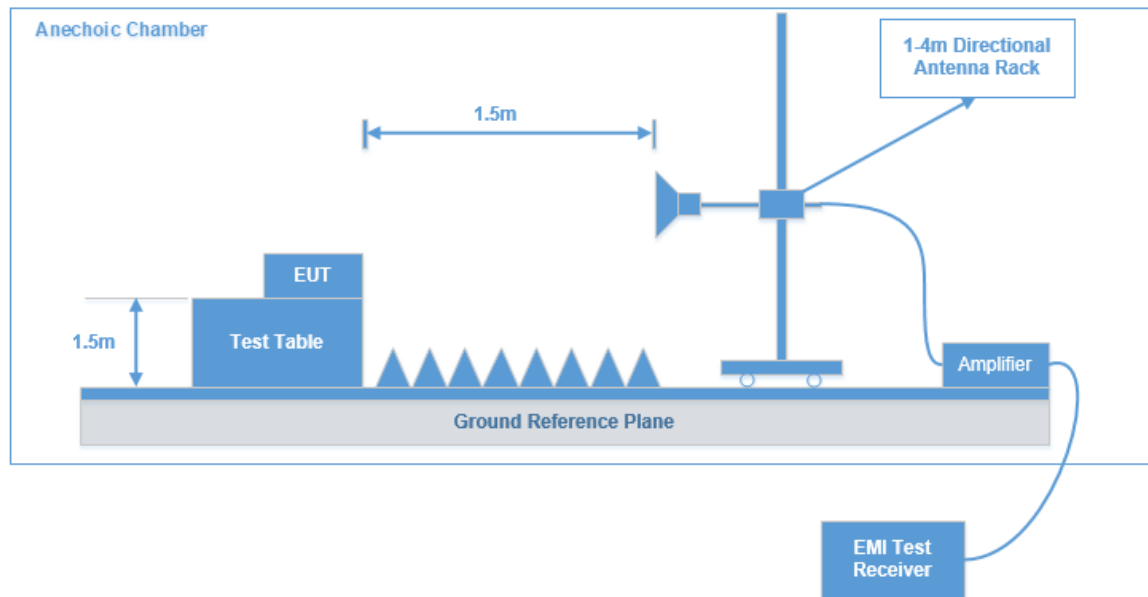
30MHz-1GHz:



1 GHz-18GHz:



18-40GHz:



The radiated emission tests were performed in the 3 meters test site for below 18GHz and 1.5m for 18-40 GHz, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.407 limits. The limit at 1.5m for 18-40 GHz is 80dB μ V/m (Peak) and 60dB μ V/m (Average)

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 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 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

During the radiated emission test, the adapter was connected to AC floor outlet. 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:

$$\text{Corrected Amplitude (dB}\mu\text{V/m)} = \text{Meter Reading (dB}\mu\text{V)} + \text{Corrected factor (dB/m)}$$

$$\text{Corrected factor (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

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:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Corrected Amplitude (dB}\mu\text{V/m)}$$

Test Data: See Appendix

FCC §15.407(a) & §15.407(e)–EMISSION BANDWIDTH

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

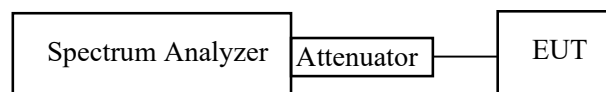
1. Emission Bandwidth (EBW)

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

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



FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER

Applicable Standard

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

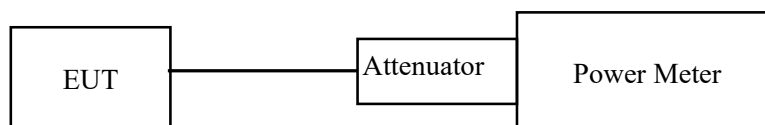
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

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.



FCC §15.407(a) - POWER SPECTRAL DENSITY

Applicable Standard

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

The measurements are base on FCC KDB 789033 D02 General UNII Test Proceidyres New Rules v02r01: Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices section F: Maximum power spectral density (PPSD) and method SA-2

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 F - TEST SETUP PHOTOGRAPHS.

Appendix - TEST DATA

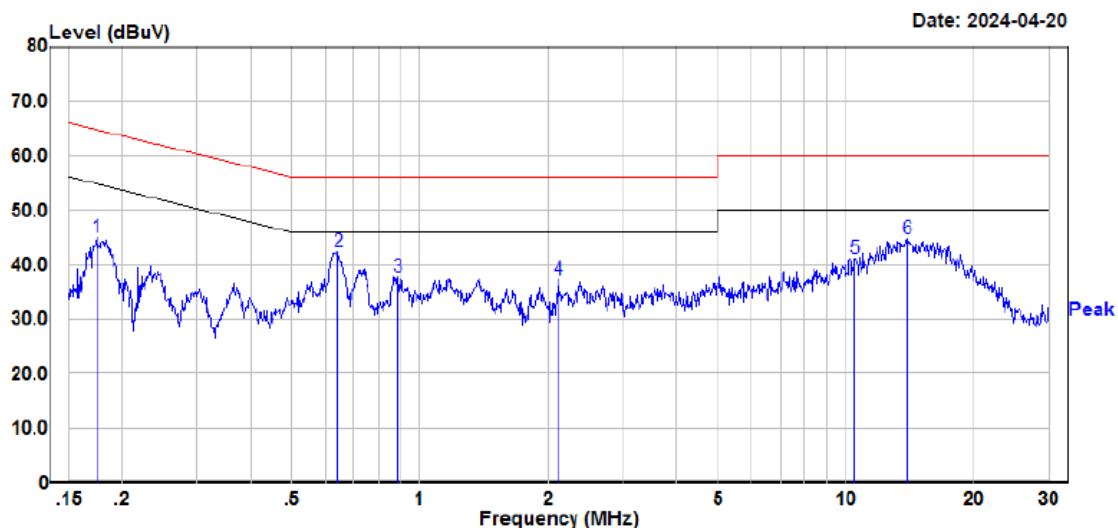
Environmental Conditions & Test Information

Test Item:	AC power-line conducted emissions limits	UNWANTED EMISSIONS & RESTRICTED FREQUENCY BANDS		
		9kHz - 1GHz	1 GHz - 18 GHz	18 GHz - 40 GHz
Test Date:	2024-04-20	2024-04-01 to 2024-04-19	2024-03-29 to 2024-04-03	2024-05-15
Temperature:	16.1 °C	17.4-19.2 °C	16.0-20.3 °C	22.5 °C
Relative Humidity:	50 %	57-58 %	48-52 %	45 %
ATM Pressure:	102.3 kPa	101.1-101.5 kPa	100.8-101.5kPa	101.6 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Frank Liu	Leah Li	Peter Wang & Klein Zhu & Hugh Wu	Hugh Wu

Test Item:	Emission Bandwidth	Conducted Transmitter Output Power	Power Spectral Density	Duty Cycle
Test Date:	2024-03-18 to 2024-04-16	2024-04-20	2024-05-14 to 2024-06-21	2024-04-16
Temperature:	19.3-21.5 °C	16.1 °C	22.1-22.5 °C	21.5 °C
Relative Humidity:	48-52 %	50 %	45-48 %	48%
ATM Pressure:	101.4-101.8kPa	102.3 kPa	101.5-101.6kPa	101.8kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Jenny Yang	Jenny Yang	Jenny Yang	Jenny Yang

EUT operation mode: Transmitting in 802.11a mode low channel of 5150~5250MHz (maximum output power)

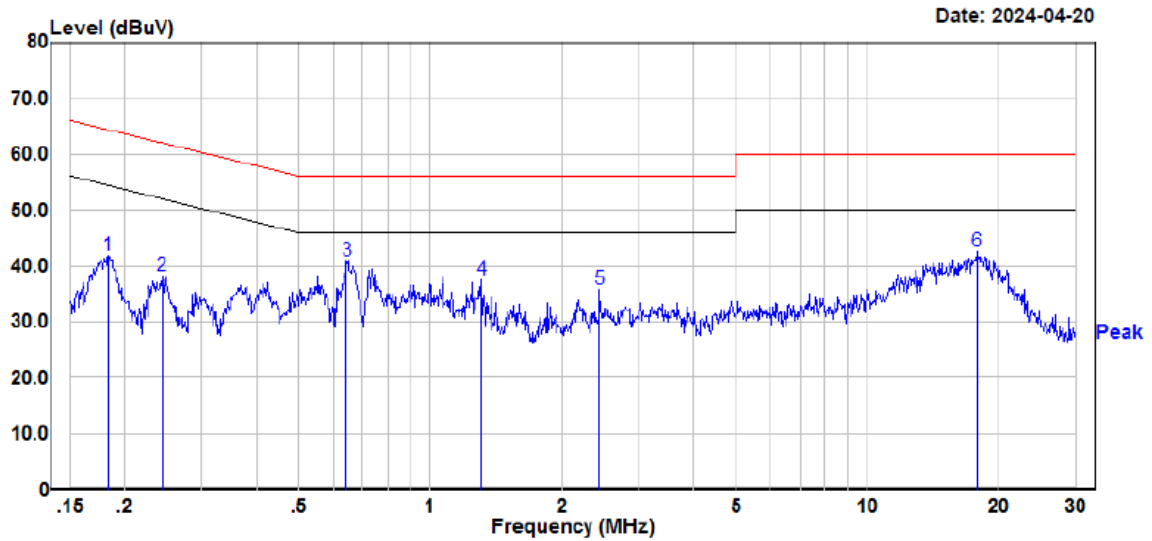
AC 120V/60 Hz, Line



Site : CE
Condition : FCC Part 15.207
: DET:Peak
Project : RKSA240112001
Model : F310 P
Phase : L
Voltage : 120V/60Hz
Mode : 5G WIFI
Test Equipment : ENV216,ESR
Temperature : 16.1℃
Humidity : 50%
Atmospheric pressure: 102.3kPa
Test Engineer : Frank Liu

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dBuV	dBuV		
1	0.174	25.15	19.92	45.07	64.76	-19.69	Peak
2	0.643	22.28	20.08	42.36	56.00	-13.64	Peak
3	0.885	17.81	19.86	37.67	56.00	-18.33	Peak
4	2.116	17.11	20.21	37.32	56.00	-18.68	Peak
5	10.480	21.00	20.01	41.01	60.00	-18.99	Peak
6	13.924	24.95	19.84	44.79	60.00	-15.21	Peak

AC 120V/60 Hz, Neutral



Site : CE
Condition : FCC Part 15.207
: DET:Peak
Project : RKSA240112001
Model : F310 P
Phase : N
Voltage : 120V/60Hz
Mode : 5G WIFI
Test Equipment : ENV216,ESR
Temperature : 16.1°C
Humidity : 50%
Atmospheric pressure: 102.3kPa
Test Engineer : Frank Liu

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.183	21.81	19.93	41.74	64.34	-22.60	Peak
2	0.243	18.30	19.98	38.28	61.98	-23.70	Peak
3	0.643	20.86	20.08	40.94	56.00	-15.06	Peak
4	1.311	17.46	19.92	37.38	56.00	-18.62	Peak
5	2.433	15.67	20.22	35.89	56.00	-20.11	Peak
6	17.776	22.70	19.81	42.51	60.00	-17.49	Peak

Transmitter Unwanted Emissions & Restricted frequency bands

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-30 MHz: (maximum output power mode and channel)

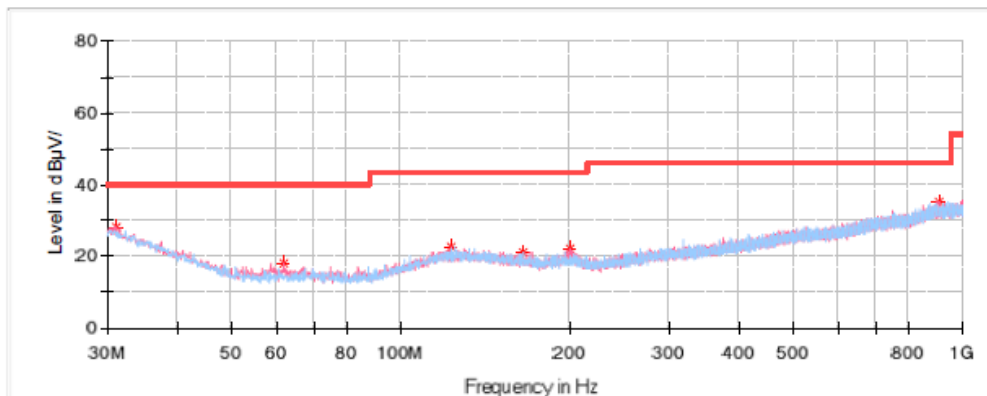
The amplitude of spurious emissions attenuated more than 20 dB below the limit was not be recorded.

30MHz-1GHz(5150-5250MHz Band): 802.11a (worst case)

Low Channel: 5180 MHz

Common Information

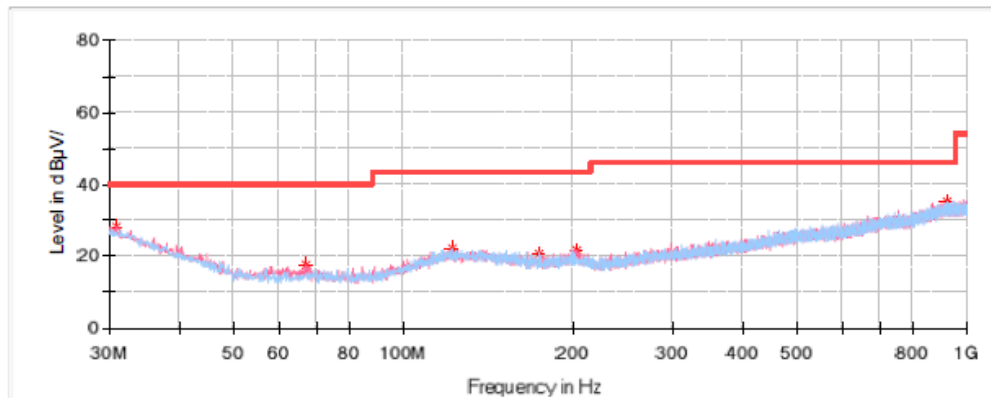
Project No:	RKSA240112001
Test Mode:	Transmitting in 802.11a mode low channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer:	Leah Li

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.091250	28.09	40.00	11.91	V	-5.2
61.767500	18.10	40.00	21.90	V	-17.4
122.513750	22.88	43.50	20.62	V	-11.3
165.436250	21.05	43.50	22.45	H	-12.8
199.871250	22.26	43.50	21.24	V	-12.5
908.092500	35.21	46.00	10.79	V	1.3

Middle Channel: 5200 MHz**Common Information**

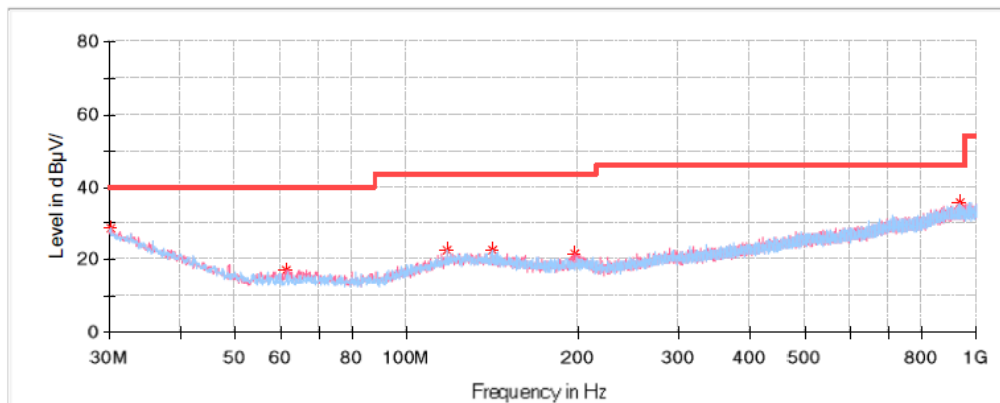
Project No:	RKSA240112001
Test Mode:	Transmitting in 802.11a mode middle channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer:	Leah Li

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.848750	28.29	40.00	11.71	V	-5.0
66.981250	17.41	40.00	22.59	V	-17.0
122.028750	22.00	43.50	21.50	H	-11.3
174.287500	20.61	43.50	22.89	H	-13.1
202.296250	21.64	43.50	21.86	V	-12.7
922.157500	35.46	46.00	10.54	H	1.4

High Channel: 5240 MHz**Common Information**

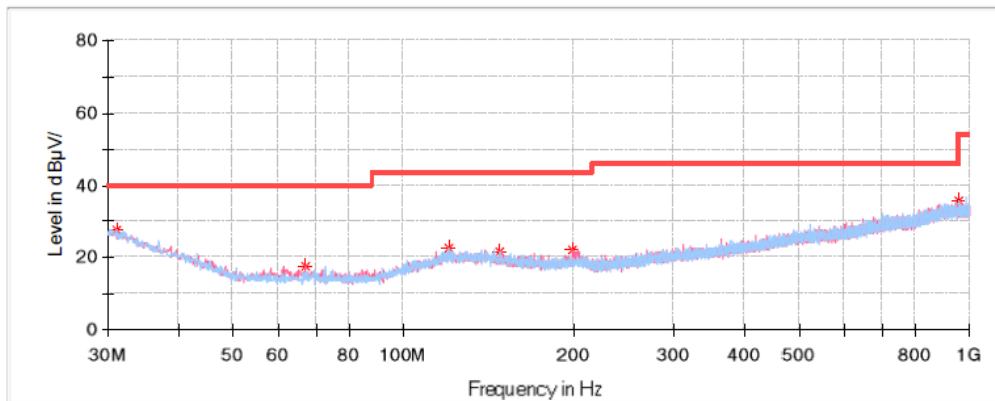
Project No: RKSA240112001
Test Mode: Transmitting in 802.11a mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Leah Li

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.121250	28.61	40.00	11.39	V	-4.5
61.282500	17.25	40.00	22.75	V	-17.4
117.300000	22.80	43.50	20.70	H	-11.7
140.943750	22.79	43.50	20.71	H	-11.6
197.325000	21.71	43.50	21.79	V	-12.6
935.131250	35.85	46.00	10.15	V	1.4

30MHz-1GHz(5725-5850MHz Band): 802.11a (worst case)**Low Channel: 5745 MHz****Common Information**

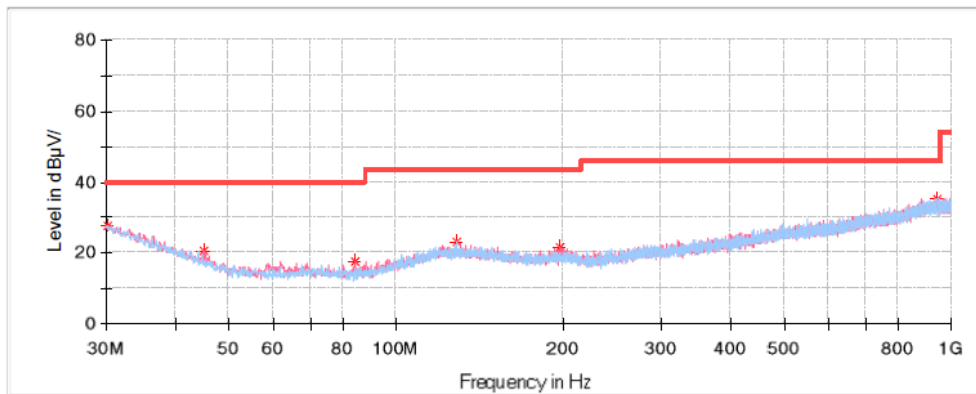
Project No: RKSA240112001
Test Mode: Transmitting in 802.11a mode low channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Leah Li

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.091250	27.75	40.00	12.25	H	-5.2
66.981250	17.55	40.00	22.45	V	-17.0
120.210000	22.39	43.50	21.11	H	-11.2
148.218750	21.85	43.50	21.65	H	-12.0
199.022500	22.38	43.50	21.12	V	-12.6
959.745000	35.67	46.00	10.33	V	1.5

Middle Channel: 5785 MHz**Common Information**

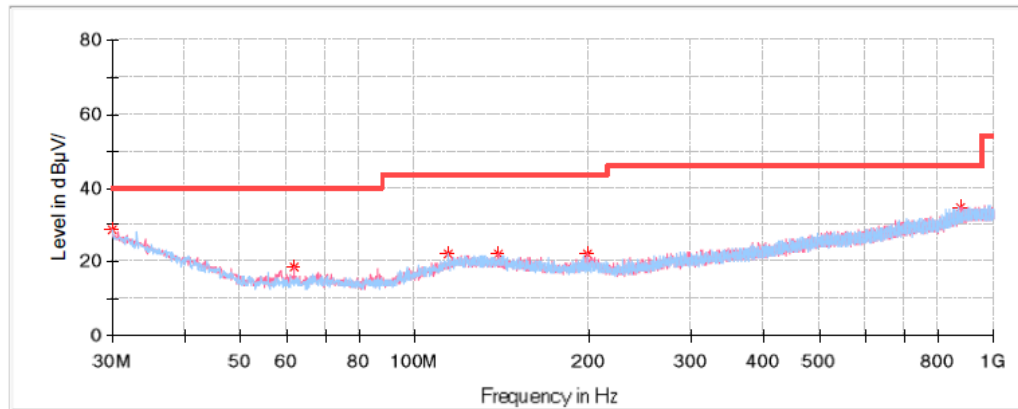
Project No: RKSA240112001
Test Mode: Transmitting in 802.11a mode middle channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Leah Li

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.121250	27.81	40.00	12.19	V	-4.5
44.913750	20.54	40.00	19.46	V	-13.9
84.441250	17.73	40.00	22.27	V	-17.4
128.333750	23.08	43.50	20.42	H	-11.4
196.840000	21.87	43.50	21.63	V	-12.6
945.922500	35.29	46.00	10.71	V	1.5

High Channel: 5825 MHz**Common Information**

Project No: RKSA240112001
Test Mode: Transmitting in 802.11a mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Leah Li

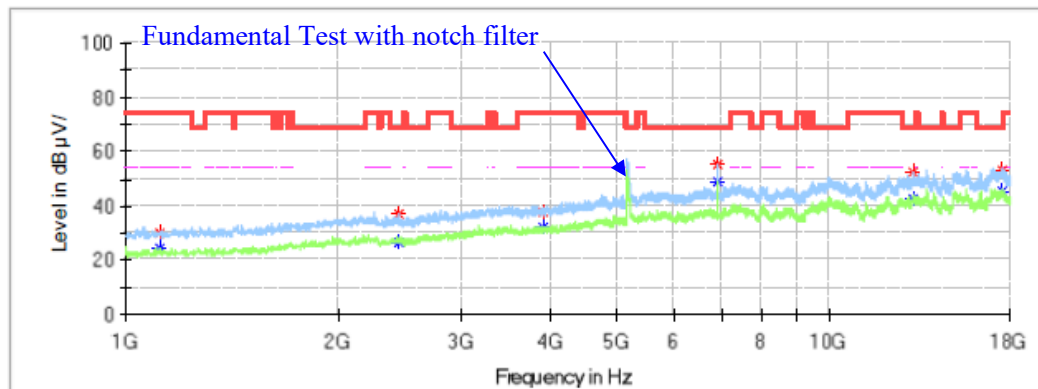
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.000000	28.81	40.00	11.19	H	-4.4
61.767500	18.53	40.00	21.47	V	-17.4
114.390000	21.89	43.50	21.61	H	-12.2
139.367500	22.00	43.50	21.50	V	-11.5
198.901250	22.32	43.50	21.18	V	-12.6
878.143750	34.85	46.00	11.15	V	0.7

1GHz-18GHz(5150-5250MHz Band):**802.11a Mode:****Low Channel: 5180MHz****Common Information**

Project No.:	RKSA240112001
Test Mode:	802.11a Mode Low Channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer:	Peter Wang

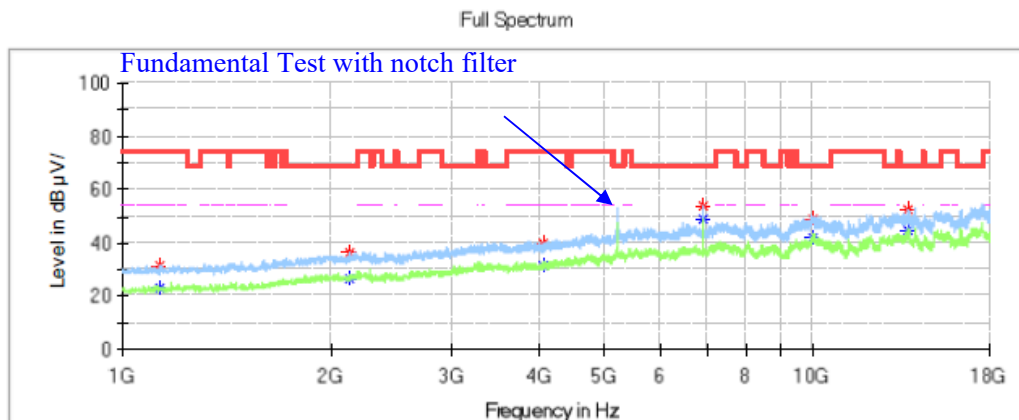
Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBµ V/m)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1120.700000	---	24.79	54.00	29.21	H	-15.1
1120.700000	29.77	---	74.00	44.23	H	-15.1
2445.000000	---	26.79	---	---	H	-9.8
2445.000000	37.06	---	68.20	31.14	H	-9.8
3903.600000	---	32.42	54.00	21.58	H	-5.3
3903.600000	37.81	---	74.00	36.19	H	-5.3
6905.800000	---	48.78	---	---	H	3.2
6905.800000	55.49	---	68.20	12.71	H	3.2
13102.300000	---	42.70	---	---	H	9.4
13102.300000	52.15	---	68.20	16.05	H	9.4
17581.800000	---	45.74	---	---	H	13.3
17581.800000	52.96	---	68.20	15.24	H	13.3

Middle Channel: 5200MHz**Common Information**

Project No.: RKSA240112001
 Test Mode: 802.11a Mode Middle Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

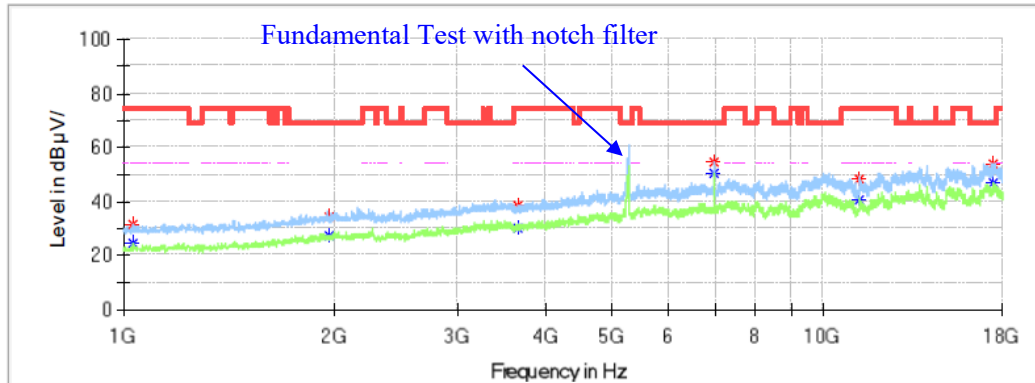
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1134.300000	---	23.26	54.00	30.74	H	-15.1
1134.300000	31.16	---	74.00	42.84	H	-15.1
2135.600000	---	26.89	---	---	H	-10.4
2135.600000	36.71	---	68.20	31.49	H	-10.4
4066.800000	---	31.43	54.00	22.57	H	-4.9
4066.800000	39.92	---	74.00	34.08	H	-4.9
6933.000000	---	49.17	---	---	H	3.4
6933.000000	54.14	---	68.20	14.06	H	3.4
9989.600000	48.93	---	68.20	19.27	H	7.8
9989.600000	---	42.03	---	---	H	7.8
13688.800000	---	45.02	---	---	H	10.8
13688.800000	52.71	---	68.20	15.49	H	10.8

High Channel: 5240MHz**Common Information**

Project No.: RKSA240112001
 Test Mode: 802.11a Mode High Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

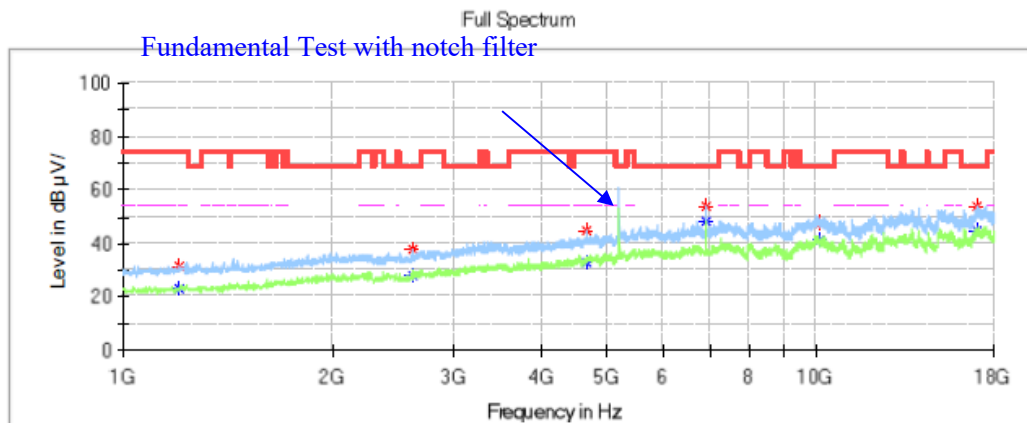
Full Spectrum

**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)
1034.000000	---	24.22	54.00	29.78	H	-15.4
1034.000000	31.39	---	74.00	42.61	H	-15.4
1965.600000	---	27.42	---	---	H	-10.8
1965.600000	34.03	---	68.20	34.17	H	-10.8
3663.900000	---	30.34	54.00	23.66	H	-5.8
3663.900000	38.73	---	74.00	35.27	H	-5.8
6985.700000	54.84	---	68.20	13.36	H	3.7
6985.700000	---	50.01	---	---	H	3.7
11203.400000	---	40.66	54.00	13.34	H	6.7
11203.400000	48.11	---	74.00	25.89	H	6.7
17456.000000	---	46.71	---	---	H	13.5
17456.000000	53.68	---	68.20	14.52	H	13.5

802.11ac20 Mode:**Low Channel: 5180MHz****Common Information**

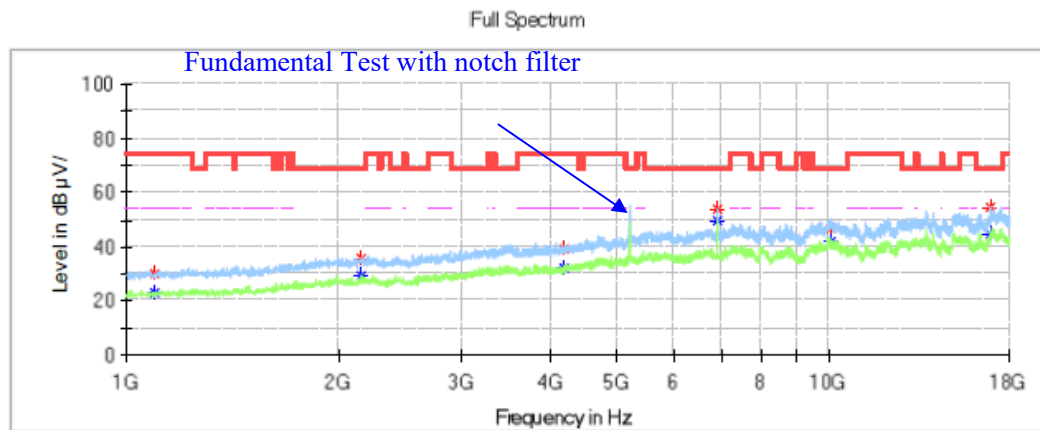
Project No.: RKSA240112001
 Test Mode: 802.11ac20 Mode Low Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1204.000000	---	22.84	54.00	31.16	H	-14.9
1204.000000	31.65	---	74.00	42.35	H	-14.9
2609.900000	---	28.08	---	---	H	-9.4
2609.900000	37.53	---	68.20	30.67	H	-9.4
4653.300000	---	32.88	54.00	21.12	H	-3.0
4653.300000	44.54	---	74.00	29.46	H	-3.0
6905.800000	---	48.55	---	---	H	3.2
6905.800000	53.51	---	68.20	14.69	H	3.2
10115.400000	---	40.93	---	---	H	7.7
10115.400000	47.78	---	68.20	20.42	H	7.7
17075.200000	---	44.87	---	---	H	12.5
17075.200000	53.66	---	68.20	14.54	H	12.5

Middle Channel: 5200MHz**Common Information**

Project No.: RKSA240112001
 Test Mode: 802.11ac20 Mode Middle Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

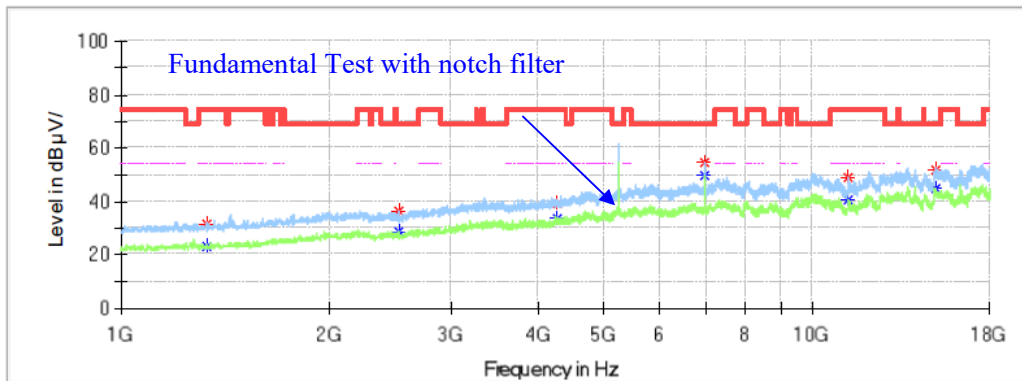
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1095.200000	---	23.13	54.00	30.87	H	-15.2
1095.200000	30.27	---	74.00	43.73	H	-15.2
2162.800000	---	29.10	---	---	H	-10.3
2162.800000	35.42	---	68.20	32.78	H	-10.3
4185.800000	---	31.91	54.00	22.09	H	-4.6
4185.800000	39.26	---	74.00	34.74	H	-4.6
6933.000000	54.16	---	68.20	14.04	H	3.4
6933.000000	---	49.61	---	---	H	3.4
10032.100000	---	41.85	---	---	H	7.8
10032.100000	47.17	---	68.20	21.03	H	7.8
16951.100000	---	44.46	---	---	H	12.1
16951.100000	54.23	---	68.20	13.97	H	12.1

High Channel: 5240MHz**Common Information**

Project No.: RKSA240112001
 Test Mode: 802.11ac20 Mode High Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

Full Spectrum

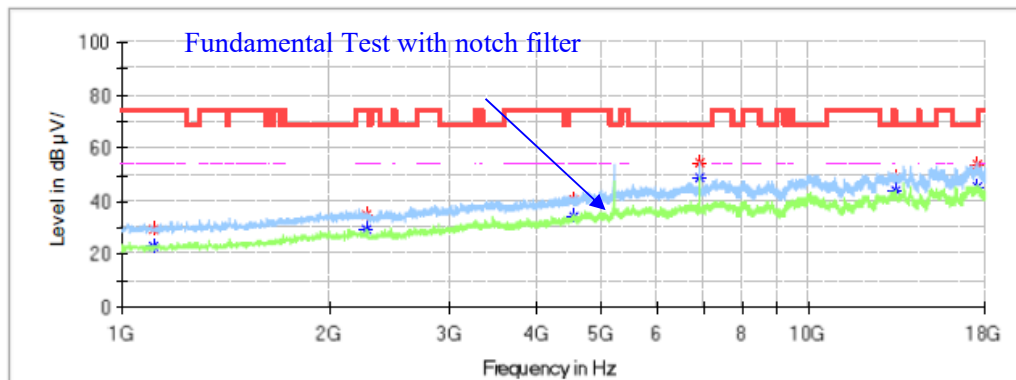
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1326.400000	---	23.36	54.00	30.64	H	-14.5
1326.400000	31.21	---	74.00	42.79	H	-14.5
2513.000000	36.24	---	68.20	31.96	H	-9.7
2513.000000	---	28.78	---	---	H	-9.7
4279.300000	---	33.64	54.00	20.36	H	-4.4
4279.300000	39.10	---	74.00	34.90	H	-4.4
6985.700000	54.46	---	68.20	13.74	H	3.7
6985.700000	---	49.48	---	---	H	3.7
11208.500000	---	40.46	54.00	13.54	H	6.7
11208.500000	49.17	---	74.00	24.83	H	6.7
15023.300000	---	44.49	---	---	H	10.2
15023.300000	51.49	---	68.20	16.71	H	10.2

802.11n-HT20 Mode:**Low Channel: 5180MHz****Common Information**

Project No.:	RKSA240112001
Test Mode:	802.11n20 Mode Low Channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer:	Peter Wang

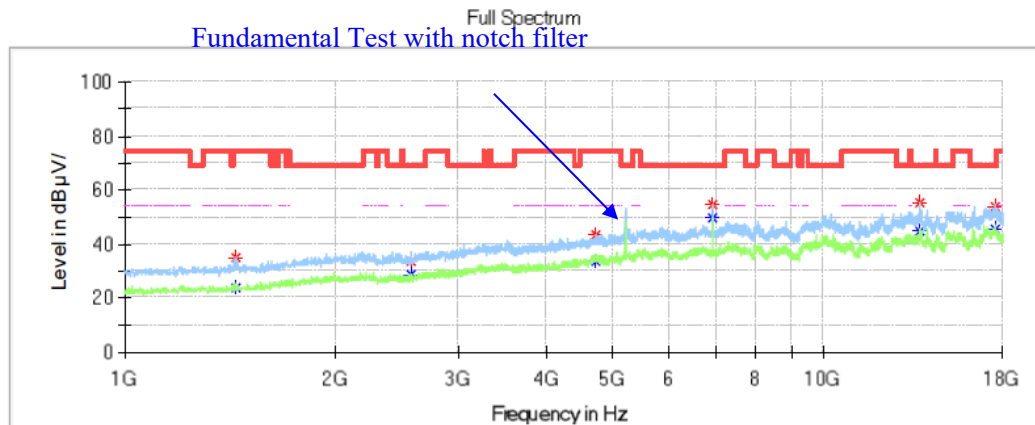
Full Spectrum

**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)
1113.900000	29.60	---	74.00	44.40	H	-15.2
1113.900000	---	23.27	54.00	30.73	H	-15.2
2273.300000	---	29.41	54.00	24.59	H	-10.1
2273.300000	34.97	---	74.00	39.03	H	-10.1
4549.600000	40.30	---	74.00	33.70	H	-3.5
4549.600000	---	33.95	54.00	20.05	H	-3.5
6933.000000	54.33	---	68.20	13.87	H	3.4
6933.000000	---	49.12	---	---	H	3.4
13331.800000	48.68	---	74.00	25.32	H	10.3
13331.800000	---	43.71	54.00	10.29	H	10.3
17568.200000	---	45.59	---	---	H	13.3
17568.200000	54.13	---	68.20	14.07	H	13.3

Middle Channel: 5200MHz**Common Information**

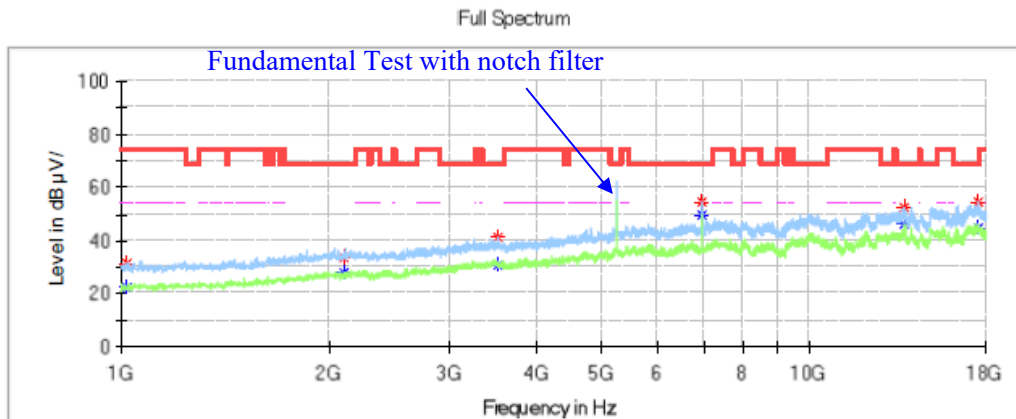
Project No.: RKSA240112001
 Test Mode: 802.11n20 Mode Middle Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	---	23.88	54.00	30.12	H	-14.1
1438.600000	34.87	---	74.00	39.13	H	-14.1
2574.200000	33.70	---	68.20	34.50	H	-9.5
2574.200000	---	28.45	---	---	H	-9.5
4702.600000	43.60	---	74.00	30.40	H	-2.8
4702.600000	---	33.81	54.00	20.19	H	-2.8
6933.000000	---	49.34	---	---	H	3.4
6933.000000	54.82	---	68.20	13.38	H	3.4
13682.000000	---	45.02	---	---	H	10.8
13682.000000	55.08	---	68.20	13.12	H	10.8
17549.500000	---	45.16	---	---	H	13.4
17549.500000	54.00	---	68.20	14.20	H	13.4

High Channel: 5240MHz**Common Information**

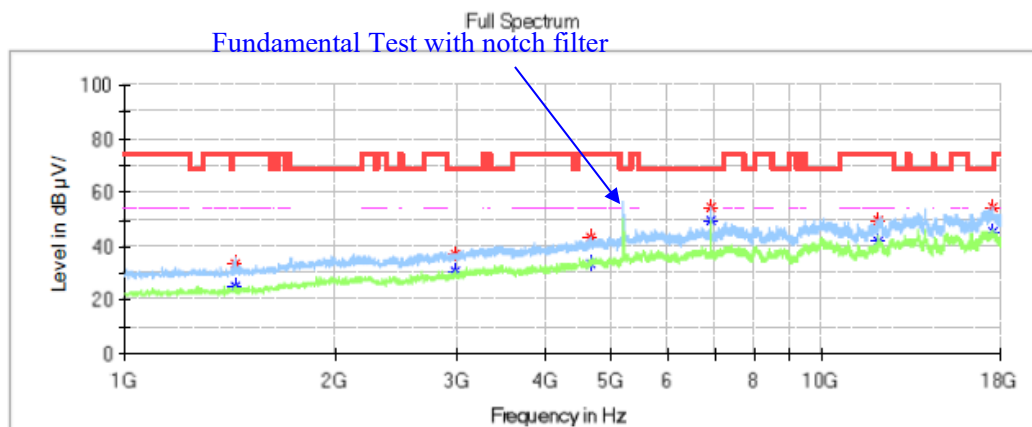
Project No.: RKSA240112001
Test Mode: 802.11n20 Mode High Channel
Standard: FCC Part 15.205 & FCC Part 15.407
Test Engineer: Peter Wang

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1018.700000	---	22.34	54.00	31.66	H	-15.5
1018.700000	31.29	---	74.00	42.71	H	-15.5
2110.100000	---	28.31	---	---	H	-10.4
2110.100000	33.37	---	68.20	34.83	H	-10.4
3514.300000	---	30.62	---	---	H	-6.1
3514.300000	41.15	---	68.20	27.05	H	-6.1
6985.700000	54.83	---	68.20	13.37	H	3.7
6985.700000	---	49.80	---	---	H	3.7
13676.900000	---	45.94	---	---	H	10.8
13676.900000	52.55	---	68.20	15.65	H	10.8
17544.400000	---	44.95	---	---	H	13.4
17544.400000	54.37	---	68.20	13.83	H	13.4

802.11ac40 Mode:**Low Channel: 5190MHz****Common Information**

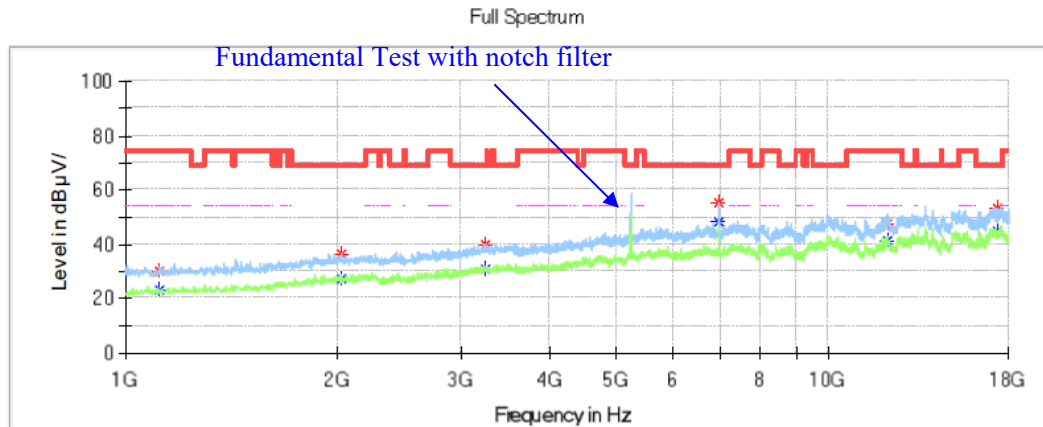
Project No.:	RKSA240112001
Test Mode:	802.11ac40 Mode Low Channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer:	Peter Wang

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	---	24.94	54.00	29.06	H	-14.1
1438.600000	33.91	---	74.00	40.09	H	-14.1
2982.200000	---	31.01	---	---	H	-8.1
2982.200000	37.37	---	68.20	30.83	H	-8.1
4660.100000	---	33.79	54.00	20.21	H	-3.0
4660.100000	43.24	---	74.00	30.76	H	-3.0
6919.400000	54.61	---	68.20	13.59	H	3.3
6919.400000	---	49.61	---	---	H	3.3
12056.800000	---	41.78	54.00	12.22	H	7.0
12056.800000	49.88	---	74.00	24.12	H	7.0
17564.800000	---	45.56	---	---	H	13.3
17564.800000	54.28	---	68.20	13.92	H	13.3

High Channel: 5230MHz**Common Information**

Project No.: RKSA240112001
 Test Mode: 802.11ac40 Mode High Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

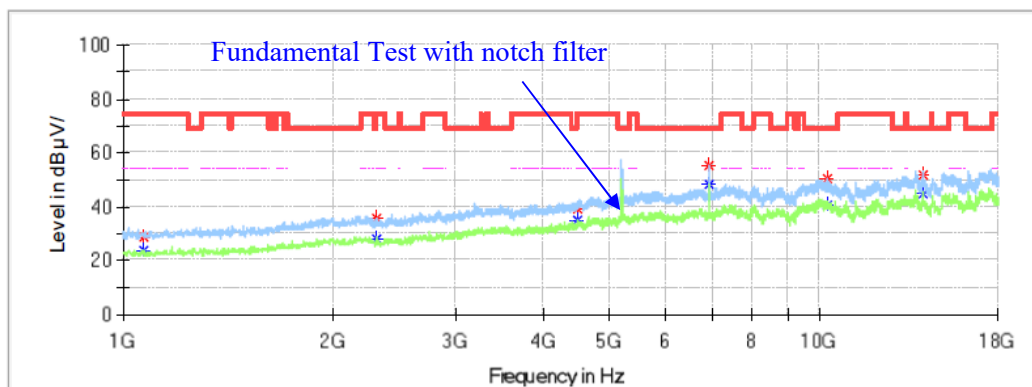
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1120.700000	---	23.18	54.00	30.82	H	-15.1
1120.700000	29.73	---	74.00	44.27	H	-15.1
2025.100000	---	27.02	---	---	H	-10.5
2025.100000	36.71	---	68.20	31.49	H	-10.5
3240.600000	---	30.98	---	---	H	-7.1
3240.600000	39.82	---	68.20	28.38	H	-7.1
6972.100000	55.34	---	68.20	12.86	H	3.6
6972.100000	---	48.32	---	---	H	3.6
12068.700000	---	40.95	54.00	13.05	H	7.0
12068.700000	47.60	---	74.00	26.40	H	7.0
17360.800000	---	44.48	---	---	H	13.3
17360.800000	53.45	---	68.20	14.75	H	13.3

802.11n-HT40 Mode:**Low Channel: 5190MHz****Common Information**

Project No.: RKSA240112001
 Test Mode: 802.11n40 Mode Low Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

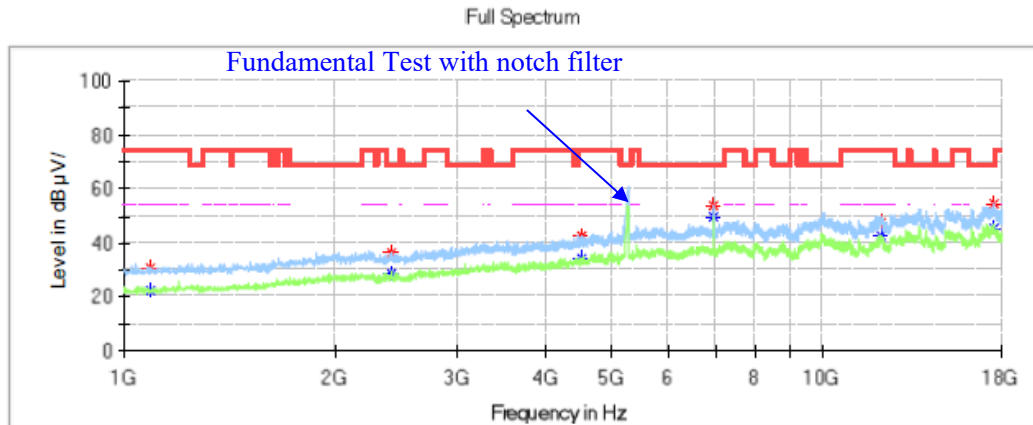
Full Spectrum

**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)
1073.100000	---	23.66	54.00	30.34	H	-15.3
1073.100000	28.91	---	74.00	45.09	H	-15.3
2303.900000	35.49	---	68.20	32.71	H	-10.1
2303.900000	---	27.80	---	---	H	-10.1
4474.800000	---	34.64	---	---	H	-3.9
4474.800000	39.25	---	68.20	28.95	H	-3.9
6919.400000	55.05	---	68.20	13.15	H	3.3
6919.400000	---	48.45	---	---	H	3.3
10241.200000	---	40.48	---	---	H	7.5
10241.200000	50.32	---	68.20	17.88	H	7.5
14001.600000	---	44.83	---	---	H	10.5
14001.600000	52.07	---	68.20	16.13	H	10.5

High Channel: 5230MHz**Common Information**

Project No.: RKSA240112001
 Test Mode: 802.11n40 Mode High Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

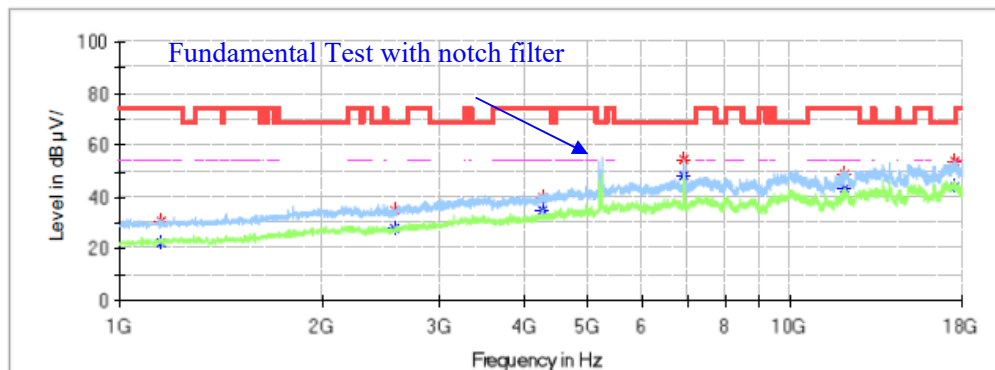
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1088.400000	---	22.65	54.00	31.35	H	-15.2
1088.400000	30.74	---	74.00	43.26	H	-15.2
2414.400000	36.38	---	68.20	31.82	H	-9.9
2414.400000	---	28.76	---	---	H	-9.9
4525.800000	---	34.41	54.00	19.59	H	-3.7
4525.800000	42.44	---	74.00	31.56	H	-3.7
6985.700000	53.89	---	68.20	14.31	H	3.7
6985.700000	---	49.30	---	---	H	3.7
12073.800000	---	42.70	54.00	11.30	H	7.1
12073.800000	47.53	---	74.00	26.47	H	7.1
17541.000000	---	45.67	---	---	H	13.4
17541.000000	54.35	---	68.20	13.85	H	13.4

802.11ac80 Mode:**5210MHz****Common Information**

Project No.: RKSA240112001
Test Mode: 802.11ac80 Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum

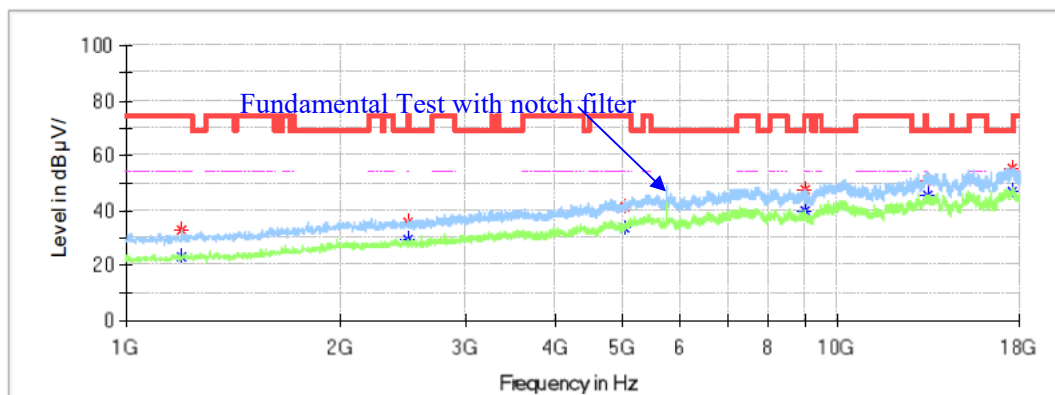
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1153.000000	---	22.69	54.00	31.31	H	-15.0
1153.000000	30.76	---	74.00	43.24	H	-15.0
2562.300000	---	27.83	---	---	H	-9.5
2562.300000	34.77	---	68.20	33.43	H	-9.5
4279.300000	39.53	---	74.00	34.47	H	-4.4
4279.300000	---	34.96	54.00	19.04	H	-4.4
6946.600000	54.83	---	68.20	13.37	H	3.5
6946.600000	---	48.46	---	---	H	3.5
12063.600000	---	43.68	54.00	10.32	H	7.0
12063.600000	48.84	---	74.00	25.16	H	7.0
17552.900000	---	44.32	---	---	H	13.4
17552.900000	53.73	---	68.20	14.47	H	13.4

1GHz-18GHz(5725-5850MHz Band):**802.11a Mode:****Low Channel: 5745MHz****Common Information**

Project No.:	RKSA240112001
Test Mode:	802.11a Mode Low Channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer:	Peter Wang

Full Spectrum

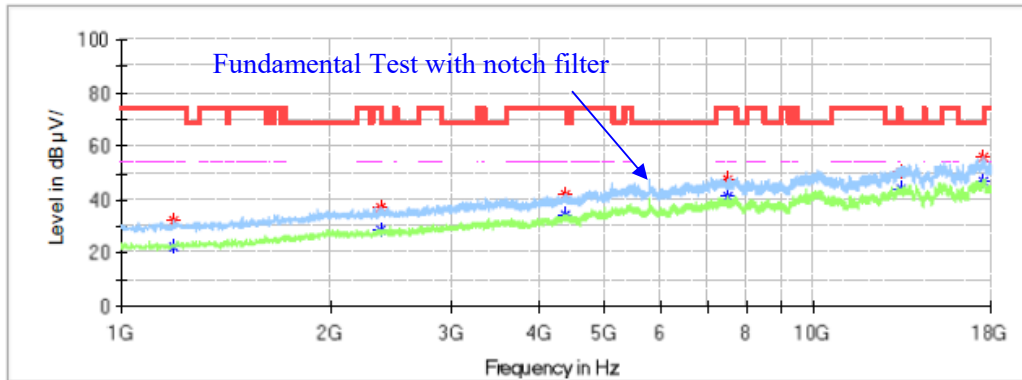
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1198.900000	---	23.06	54.00	30.94	H	-14.9
1198.900000	32.97	---	74.00	41.03	H	-14.9
2485.800000	35.69	---	74.00	38.31	H	-9.8
2485.800000	---	29.31	54.00	24.69	H	-9.8
5020.500000	41.42	---	74.00	32.58	H	-1.1
5020.500000	---	33.56	54.00	20.44	H	-1.1
9005.300000	47.36	---	74.00	26.64	H	3.6
9005.300000	---	39.99	54.00	14.01	H	3.6
13381.100000	50.89	---	74.00	23.11	H	10.5
13381.100000	---	45.40	54.00	8.60	H	10.5
17590.300000	---	46.78	---	---	H	13.2
17590.300000	55.55	---	68.20	12.65	H	13.2

Middle Channel: 5785MHz**Common Information**

Project No.: RKSA240112001
 Test Mode: 802.11a Mode Middle Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

Full Spectrum

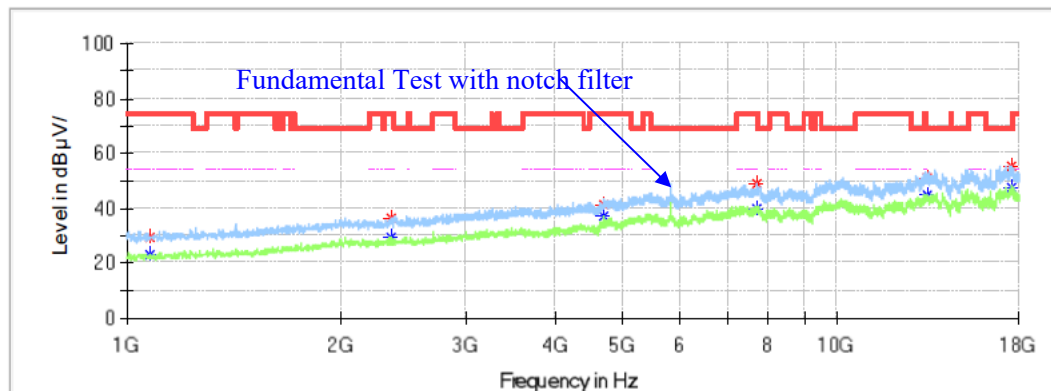
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1188.700000	---	22.34	54.00	31.66	H	-14.9
1188.700000	32.47	---	74.00	41.53	H	-14.9
2371.900000	---	28.92	54.00	25.08	H	-10.0
2371.900000	36.76	---	74.00	37.24	H	-10.0
4389.800000	42.14	---	74.00	31.86	H	-4.1
4389.800000	---	34.14	54.00	19.86	H	-4.1
7507.600000	---	40.96	54.00	13.04	H	4.2
7507.600000	47.26	---	74.00	26.74	H	4.2
13357.300000	---	44.26	54.00	9.74	H	10.4
13357.300000	50.51	---	74.00	23.49	H	10.4
17590.300000	---	47.18	---	---	H	13.2
17590.300000	55.83	---	68.20	12.37	H	13.2

High Channel: 5825MHz**Common Information**

Project No.: RKSA240112001
 Test Mode: 802.11a Mode High Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

Full Spectrum

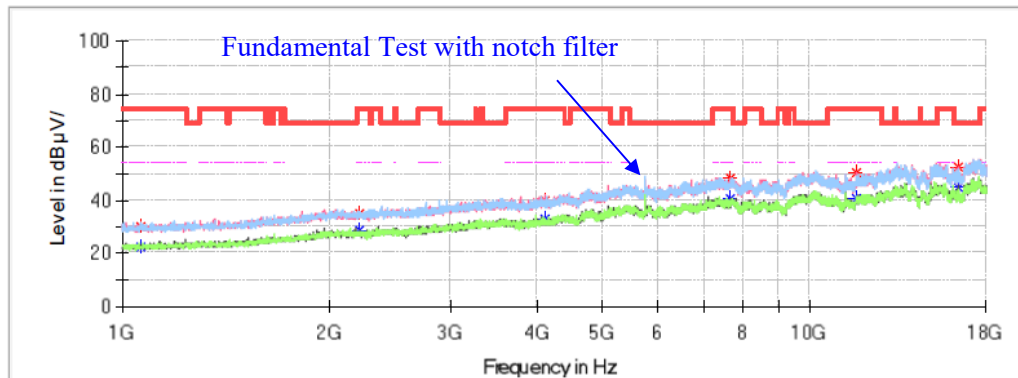
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1076.500000	---	22.94	54.00	31.06	H	-15.3
1076.500000	29.44	---	74.00	44.56	H	-15.3
2348.100000	---	29.08	54.00	24.92	H	-10.0
2348.100000	36.51	---	74.00	37.49	H	-10.0
4687.300000	---	36.76	54.00	17.24	H	-2.8
4687.300000	41.16	---	74.00	32.84	H	-2.8
7703.100000	---	39.71	54.00	14.29	H	4.0
7703.100000	49.08	---	74.00	24.92	H	4.0
13325.000000	---	44.46	54.00	9.54	H	10.3
13325.000000	50.83	---	74.00	23.17	H	10.3
17592.000000	---	47.35	---	---	H	13.2
17592.000000	55.51	---	68.20	12.69	H	13.2

802.11ac20 Mode:**Low Channel: 5745MHz****Common Information**

Project No.: RKSA240112001
Test Mode: 802.11ac20 Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum

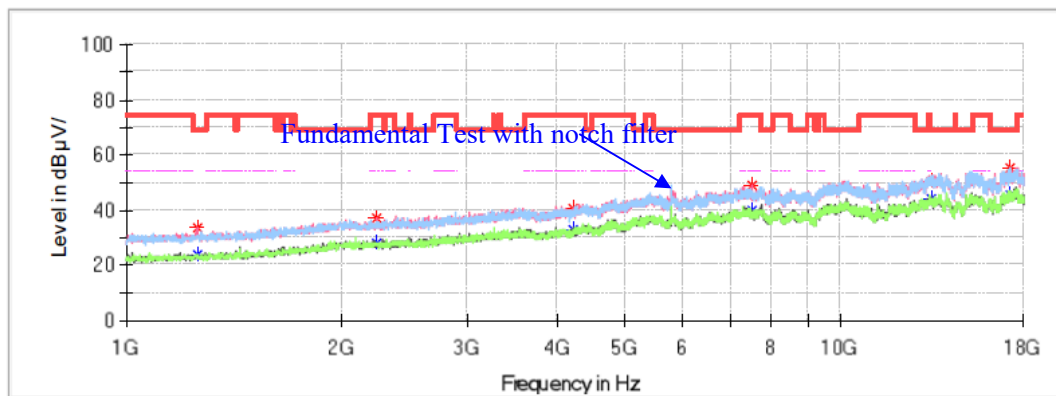
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	---	22.37	54.00	31.63	H	-15.3
1064.600000	30.33	---	74.00	43.67	H	-15.3
2208.700000	---	28.76	54.00	25.24	V	-10.2
2208.700000	34.87	---	74.00	39.13	V	-10.2
4102.500000	---	32.53	54.00	21.47	V	-4.8
4102.500000	39.86	---	74.00	34.14	V	-4.8
7652.100000	---	40.82	54.00	13.18	V	4.1
7652.100000	47.98	---	74.00	26.02	V	4.1
11640.300000	---	40.40	54.00	13.60	V	7.2
11640.300000	50.51	---	74.00	23.49	V	7.2
16356.100000	---	44.53	---	---	V	9.9
16356.100000	52.33	---	68.20	15.87	V	9.9

Middle Channel: 5785MHz**Common Information**

Project No.: RKSA240112001
 Test Mode: 802.11ac20 Mode Middle Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

Full Spectrum

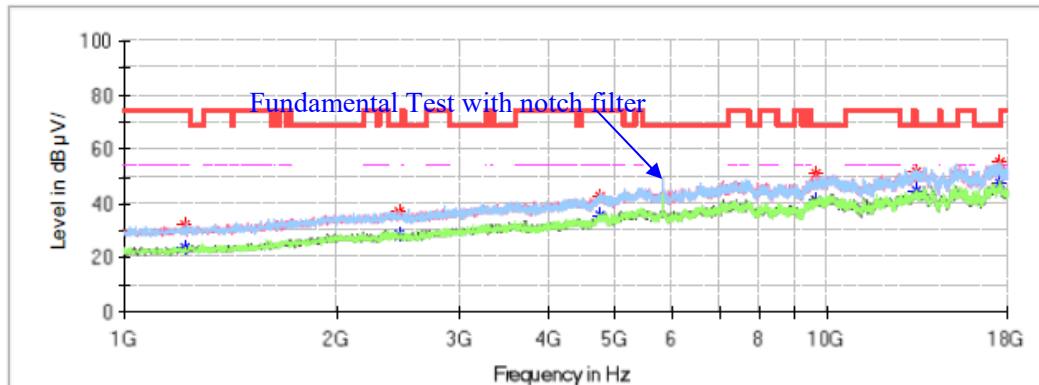
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1255.000000	---	23.98	---	---	H	-14.7
1255.000000	33.66	---	68.20	34.54	H	-14.7
2241.000000	---	28.29	54.00	25.71	V	-10.2
2241.000000	37.07	---	74.00	36.93	V	-10.2
4213.000000	---	32.92	54.00	21.08	V	-4.5
4213.000000	40.77	---	74.00	33.23	V	-4.5
7485.500000	---	39.91	54.00	14.09	V	4.2
7485.500000	48.62	---	74.00	25.38	V	4.2
13398.100000	50.62	---	74.00	23.38	H	10.6
13398.100000	---	44.05	54.00	9.95	H	10.6
17182.300000	55.55	---	68.20	12.65	H	12.8
17182.300000	---	45.73	---	---	H	12.8

High Channel: 5825MHz**Common Information**

Project No.: RKSA240112001
Test Mode: 802.11ac20 Mode High Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum

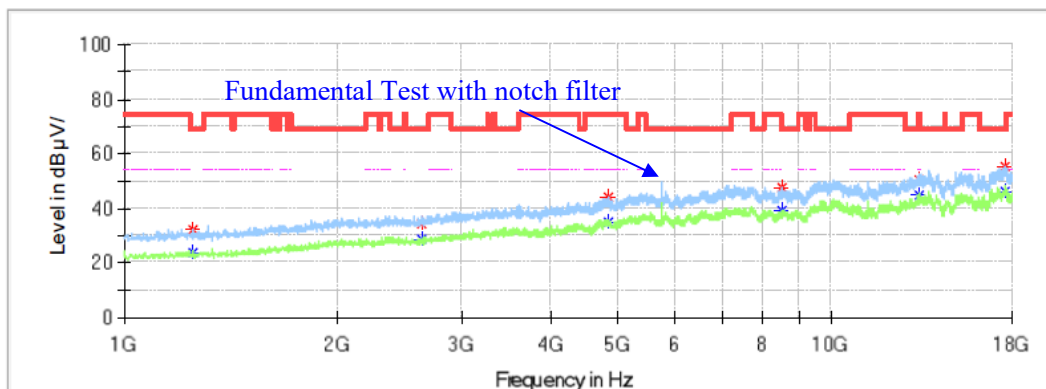
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1221.000000	---	23.89	54.00	30.11	H	-14.8
1221.000000	32.15	---	74.00	41.85	H	-14.8
2463.700000	---	28.70	---	---	V	-9.8
2463.700000	36.95	---	68.20	31.25	V	-9.8
4731.500000	---	36.00	54.00	18.00	H	-2.6
4731.500000	42.92	---	74.00	31.08	H	-2.6
9602.000000	---	41.42	---	---	V	6.6
9602.000000	50.72	---	68.20	17.48	V	6.6
13340.300000	---	44.66	54.00	9.34	V	10.4
13340.300000	51.50	---	74.00	22.50	V	10.4
17590.300000	---	47.55	---	---	V	13.2
17590.300000	55.42	---	68.20	12.78	H	13.2

802.11n-HT20 Mode:**Low Channel: 5745MHz****Common Information**

Project No.: RKSA240112001
Test Mode: 802.11n20 Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum

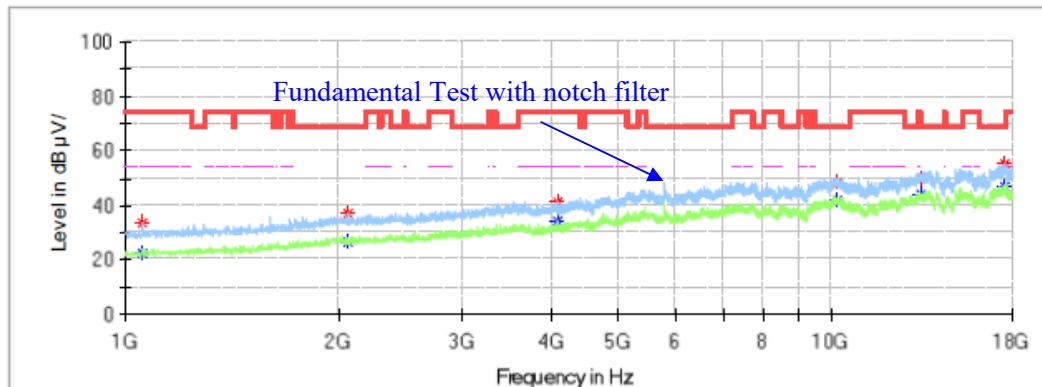
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1251.600000	---	23.45	---	---	H	-14.7
1251.600000	32.21	---	68.20	35.99	H	-14.7
2632.000000	---	28.49	---	---	H	-9.3
2632.000000	34.60	---	68.20	33.60	H	-9.3
4821.600000	---	34.69	54.00	19.31	H	-2.1
4821.600000	44.17	---	74.00	29.83	H	-2.1
8519.100000	---	38.86	---	---	H	3.9
8519.100000	47.76	---	68.20	20.44	H	3.9
13255.300000	---	44.49	54.00	9.51	H	10.0
13255.300000	50.21	---	74.00	23.79	H	10.0
17602.200000	---	46.38	---	---	H	13.2
17602.200000	55.34	---	68.20	12.86	H	13.2

Middle Channel: 5785MHz**Common Information**

Project No.: RKSA240112001
Test Mode: 802.11n20 Mode Middle Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum

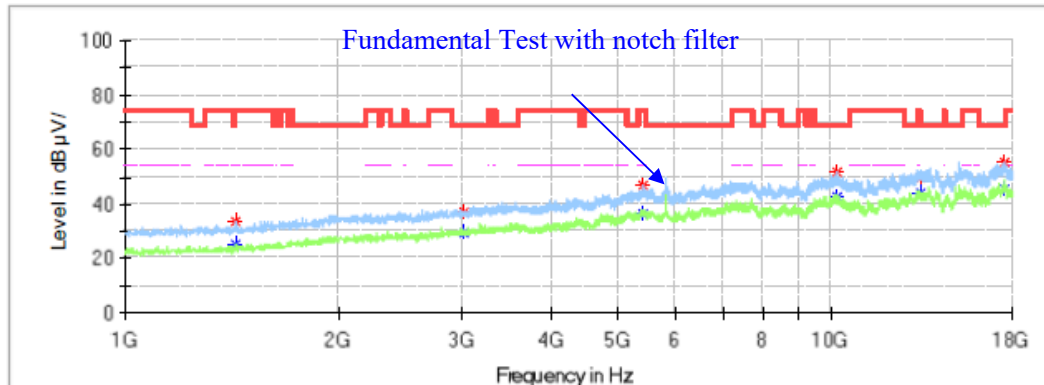
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1056.100000	---	22.08	54.00	31.92	H	-15.3
1056.100000	33.47	---	74.00	40.53	H	-15.3
2069.300000	---	26.59	---	---	H	-10.5
2069.300000	37.04	---	68.20	31.16	H	-10.5
4078.700000	---	33.92	54.00	20.08	H	-4.9
4078.700000	41.52	---	74.00	32.48	H	-4.9
10168.100000	48.51	---	68.20	19.69	H	7.6
10168.100000	---	41.90	---	---	H	7.6
13393.000000	---	43.87	54.00	10.13	H	10.6
13393.000000	49.56	---	74.00	24.44	H	10.6
17581.800000	---	46.99	---	---	H	13.3
17581.800000	55.29	---	68.20	12.91	H	13.3

High Channel: 5825MHz**Common Information**

Project No.: RKSA240112001
 Test Mode: 802.11n20 Mode High Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

Full Spectrum

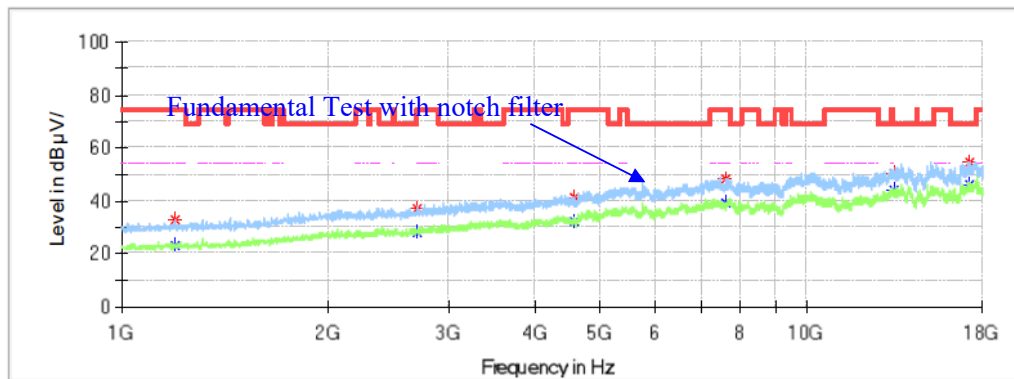
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1436.900000	33.61	---	74.00	40.39	H	-14.1
1436.900000	---	24.83	54.00	29.17	H	-14.1
3021.300000	---	29.37	---	---	H	-7.9
3021.300000	37.28	---	68.20	30.92	H	-7.9
5403.000000	---	36.07	54.00	17.93	H	0.4
5403.000000	46.75	---	74.00	27.25	H	0.4
10166.400000	52.07	---	68.20	16.13	H	7.6
10166.400000	---	42.70	---	---	H	7.6
13333.500000	---	44.03	54.00	9.97	H	10.3
13333.500000	49.77	---	74.00	24.23	H	10.3
17603.900000	---	45.54	---	---	H	13.2
17603.900000	55.12	---	68.20	13.08	H	13.2

802.11ac40 Mode:**Low Channel: 5755MHz****Common Information**

Project No.: RKSA240112001
Test Mode: 802.11ac40 Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum

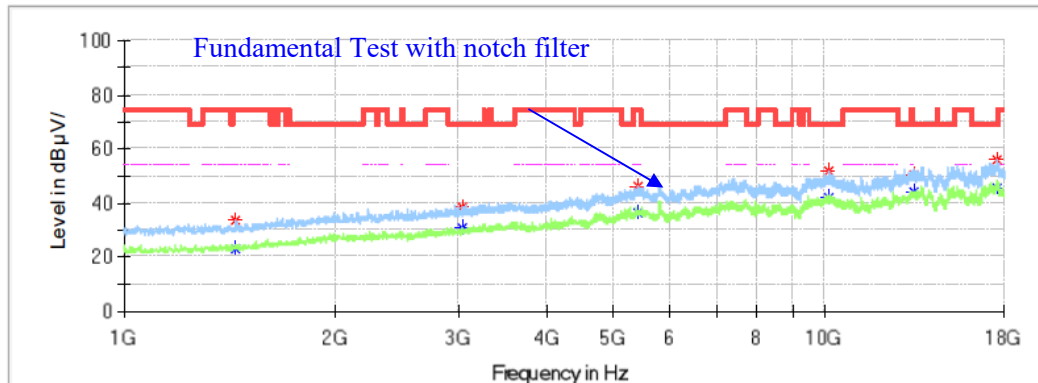
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1193.800000	---	22.86	54.00	31.14	H	-14.9
1193.800000	33.12	---	74.00	40.88	H	-14.9
2705.100000	---	27.80	54.00	26.20	H	-9.0
2705.100000	37.18	---	74.00	36.82	H	-9.0
4573.400000	---	32.13	54.00	21.87	H	-3.4
4573.400000	40.96	---	74.00	33.04	H	-3.4
7619.800000	---	38.88	54.00	15.12	H	4.1
7619.800000	48.15	---	74.00	25.85	H	4.1
13396.400000	---	44.37	54.00	9.63	H	10.6
13396.400000	50.29	---	74.00	23.71	H	10.6
17236.700000	---	45.99	---	---	H	12.9
17236.700000	54.83	---	68.20	13.37	H	12.9

High Channel: 5795MHz**Common Information**

Project No.: RKSA240112001
Test Mode: 802.11ac40 Mode Middle Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

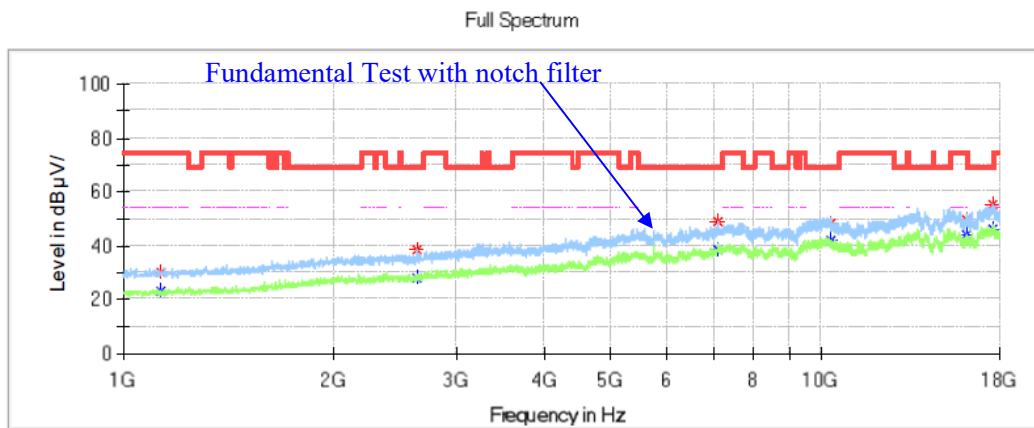
Full Spectrum

**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)
1440.300000	---	22.83	54.00	31.17	H	-14.1
1440.300000	33.33	---	74.00	40.67	H	-14.1
3033.200000	---	30.98	---	---	H	-7.9
3033.200000	38.25	---	68.20	29.95	H	-7.9
5394.500000	---	36.57	54.00	17.43	H	0.4
5394.500000	46.47	---	74.00	27.53	H	0.4
10103.500000	---	42.01	---	---	H	7.7
10103.500000	51.45	---	68.20	16.75	H	7.7
13398.100000	---	44.01	54.00	9.99	H	10.6
13398.100000	50.64	---	74.00	23.36	H	10.6
17530.800000	---	45.61	---	---	H	13.5
17530.800000	55.61	---	68.20	12.59	H	13.5

802.11n-HT40 Mode:**Low Channel: 5755MHz****Common Information**

Project No.: RKSA240112001
Test Mode: 802.11n40 Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

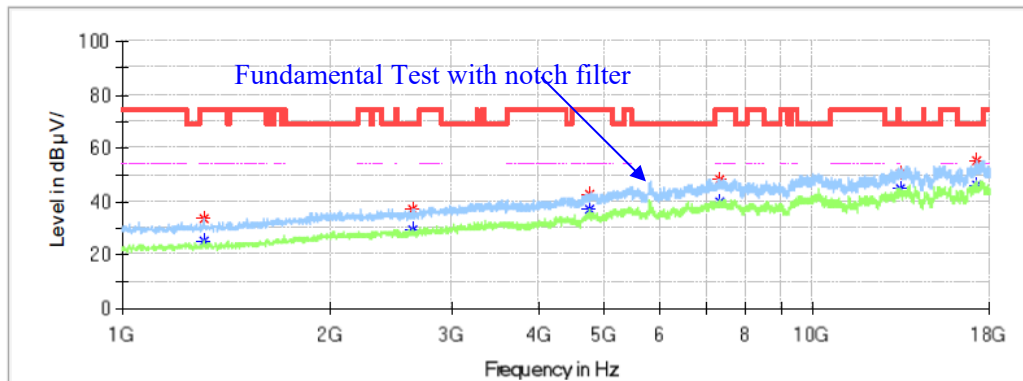
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1129.200000	---	23.19	54.00	30.81	H	-15.1
1129.200000	30.07	---	74.00	43.93	H	-15.1
2637.100000	---	27.77	---	---	H	-9.3
2637.100000	38.32	---	68.20	29.88	H	-9.3
7099.600000	---	38.63	---	---	H	3.9
7099.600000	49.05	---	68.20	19.15	H	3.9
10275.200000	---	41.84	---	---	H	7.5
10275.200000	47.92	---	68.20	20.28	H	7.5
16104.500000	---	43.94	54.00	10.06	H	9.1
16104.500000	49.74	---	74.00	24.26	H	9.1
17510.400000	---	45.91	---	---	H	13.6
17510.400000	55.37	---	68.20	12.83	H	13.6

High Channel: 5795MHz**Common Information**

Project No.: RKSA240112001
Test Mode: 802.11n40 Mode High Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum

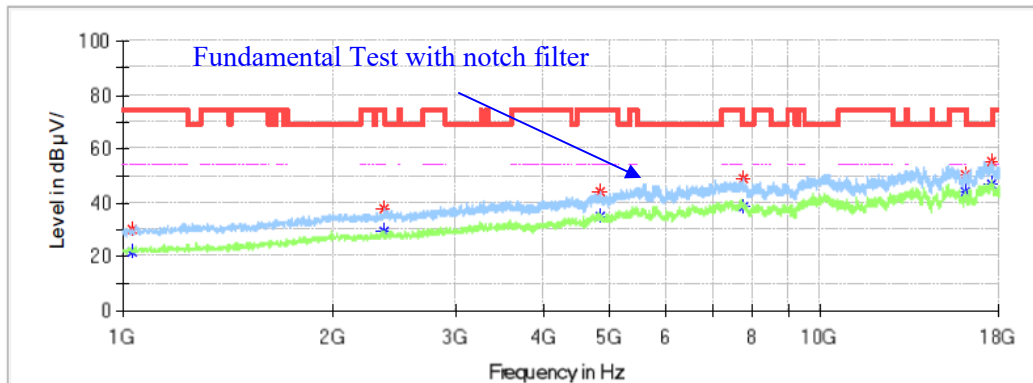
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1311.100000	---	25.33	54.00	28.67	H	-14.5
1311.100000	33.53	---	74.00	40.47	H	-14.5
2633.700000	---	29.30	---	---	H	-9.3
2633.700000	37.06	---	68.20	31.14	H	-9.3
4746.800000	---	37.00	54.00	17.00	H	-2.5
4746.800000	42.90	---	74.00	31.10	H	-2.5
7308.700000	---	39.54	54.00	14.46	H	4.0
7308.700000	48.42	---	74.00	25.58	H	4.0
13399.800000	---	44.51	54.00	9.49	H	10.6
13399.800000	50.11	---	74.00	23.89	H	10.6
17204.400000	---	46.43	---	---	H	12.9
17204.400000	55.16	---	68.20	13.04	H	12.9

802.11ac80 Mode:**Low Channel: 5775MHz****Common Information**

Project No.: RKSA240112001
 Test Mode: 802.11ac80 Mode Low Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

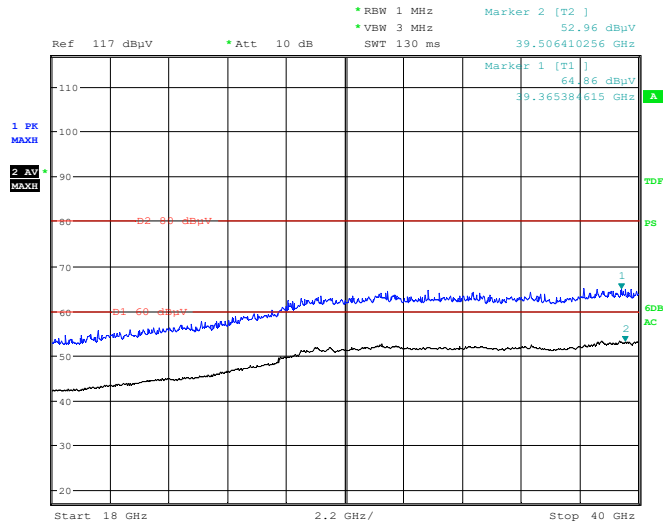
Full Spectrum

**Critical_Freqs**

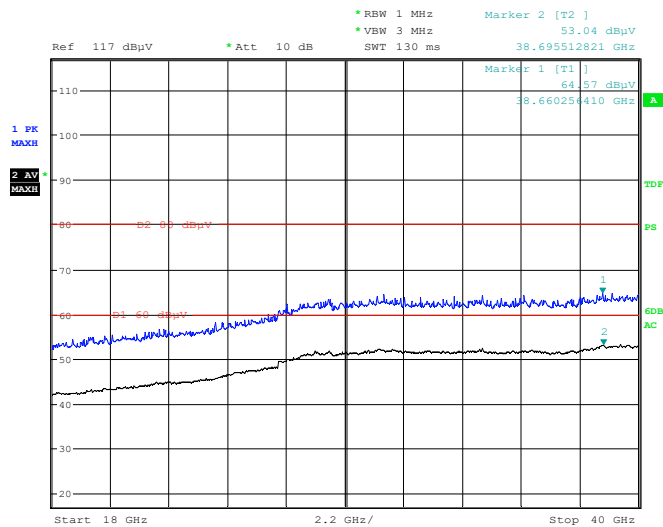
Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1032.300000	---	21.67	54.00	32.33	H	-15.4
1032.300000	30.27	---	74.00	43.73	H	-15.4
2370.200000	---	29.03	54.00	24.97	H	-10.0
2370.200000	37.55	---	74.00	36.45	H	-10.0
4830.100000	---	35.19	54.00	18.81	H	-2.1
4830.100000	43.83	---	74.00	30.17	H	-2.1
7733.700000	---	38.68	54.00	15.32	H	4.0
7733.700000	48.61	---	74.00	25.39	H	4.0
16128.300000	---	44.28	54.00	9.72	H	9.2
16128.300000	50.04	---	74.00	23.96	H	9.2
17592.000000	---	46.79	---	---	H	13.2
17592.000000	55.19	---	68.20	13.01	H	13.2

18GHz-40GHz:

Pre-scan with 802.11a, 802.11ac20, 802.11n-HT20, 802.11ac40, 802.11n-HT40, 802.11ac80 modes of operation in the X,Y and Z axes of orientation, the worst case **802.11a mode (5180MHz)** was recorded

Horizontal

Project No. RKSA240112001 Tester: Hugh Wu
Date: 21.MAY.2024 07:34:21

Vertical

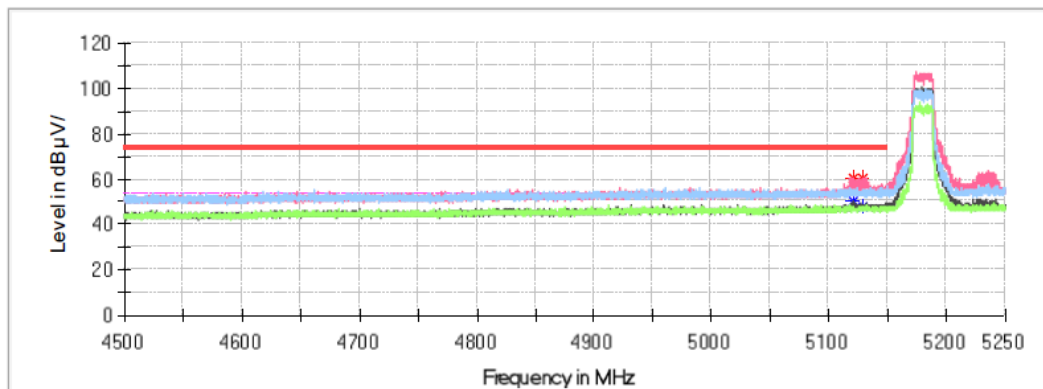
Project No. RKSA240112001 Tester: Hugh Wu
Date: 21.MAY.2024 07:50:27

Note: The test distance is 1.5m. The limit is 80dBμV/m(Peak) and 60dBμV/m(Average).

Restricted Bands Emissions Test (5150-5250MHz Band):**802.11a Mode:****Common Information**

Project No.: RKSA240112001
Test Mode: 802.11a Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Klein Zhu

Full Spectrum

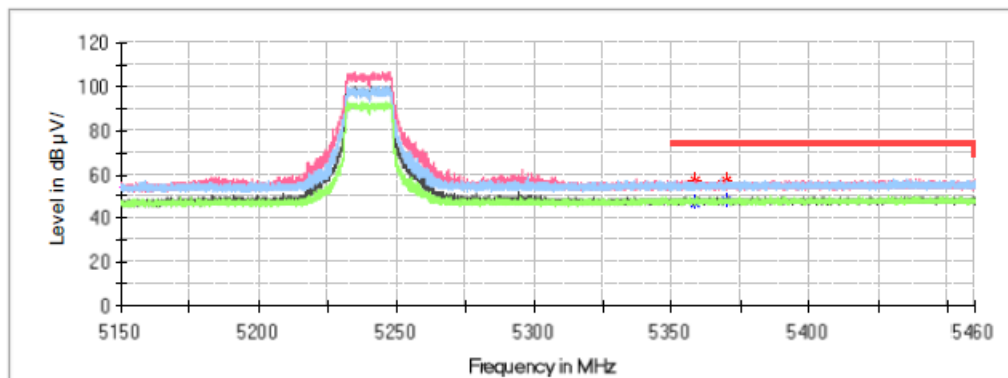
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5120.550000	60.37	---	74.00	13.63	V	9.3
5120.550000	---	50.55	54.00	3.45	V	9.3
5128.800000	60.65	---	74.00	13.35	V	9.3
5128.800000	---	48.17	54.00	5.83	V	9.3

Common Information

Project No.: RKSA240112001
Test Mode: 802.11a Mode High Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Klein Zhu

Full Spectrum



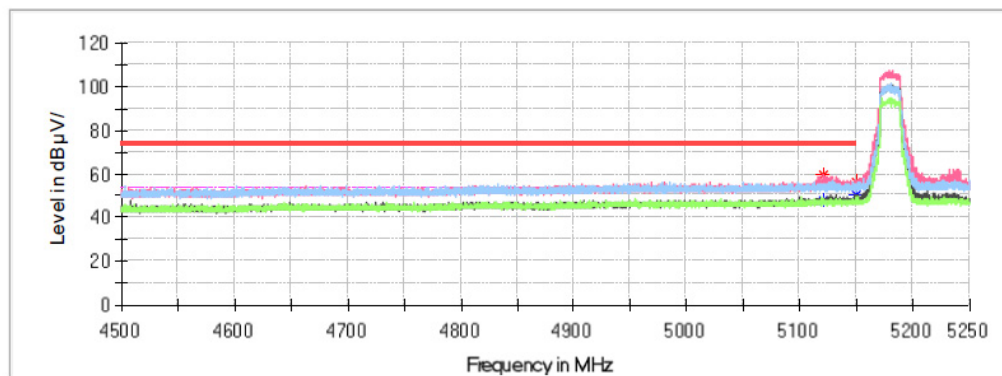
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5358.320000	---	46.90	54.00	7.10	V	10.3
5358.320000	57.34	---	74.00	16.66	V	10.3
5369.821000	---	48.17	54.00	5.83	H	10.3
5369.821000	57.08	---	74.00	16.92	H	10.3

802.11ac20 Mode:**Common Information**

Project No.: RKSA240112001
Test Mode: 802.11ac20 Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Klein Zhu

Full Spectrum

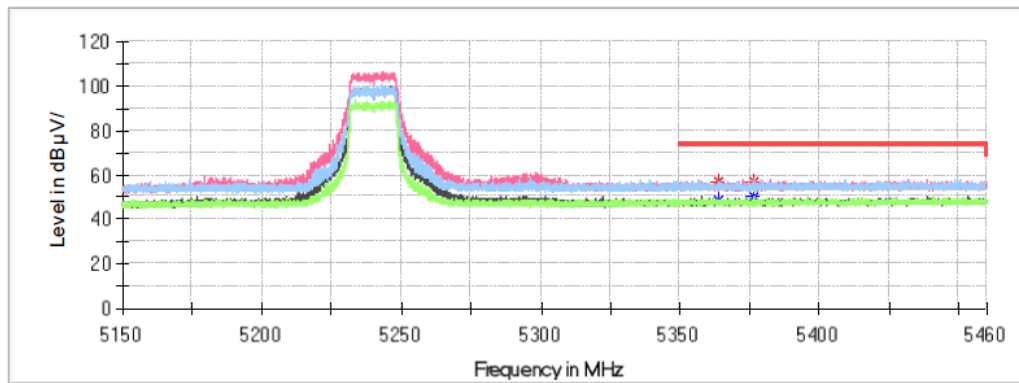
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5121.150000	59.59	---	74.00	14.41	V	9.3
5121.150000	---	47.76	54.00	6.24	V	9.3
5149.500000	55.83	---	74.00	18.17	V	9.4
5149.500000	---	50.45	54.00	3.55	V	9.4

Common Information

Project No.: RKSA240112001
Test Mode: 802.11ac20 Mode High Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Klein Zhu

Full Spectrum



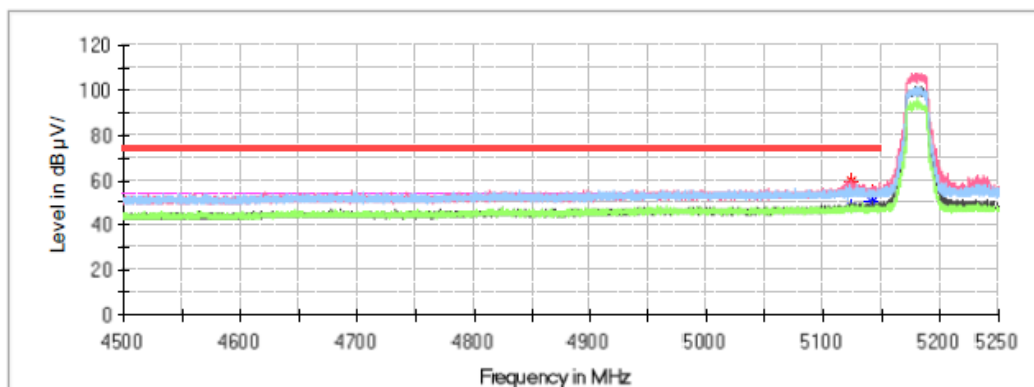
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5363.559000	---	48.26	54.00	5.74	V	10.3
5363.559000	57.20	---	74.00	16.80	V	10.3
5376.269000	57.05	---	74.00	16.95	H	10.3
5376.269000	---	50.41	54.00	3.59	H	10.3

802.11n-HT20 Mode:**Common Information**

Project No.: RKSA240112001
Test Mode: 802.11n20 Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Klein Zhu

Full Spectrum

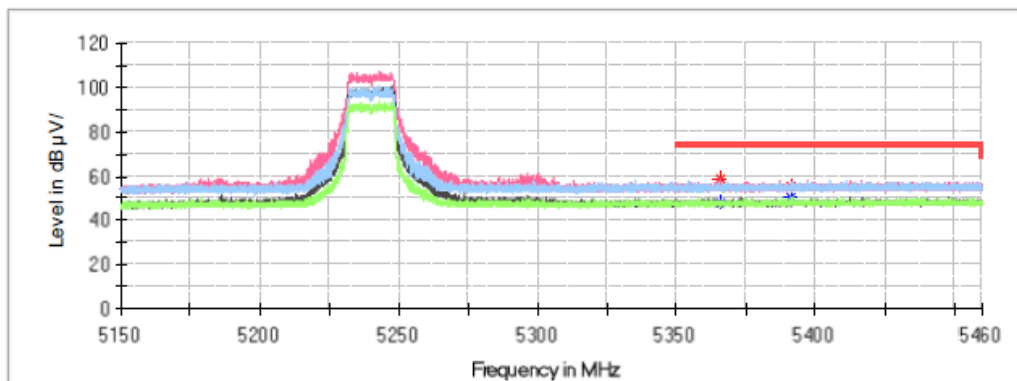
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5124.000000	59.53	---	74.00	14.47	V	9.3
5124.000000	---	48.11	54.00	5.89	V	9.3
5141.700000	54.26	---	74.00	19.74	H	9.4
5141.700000	---	50.51	54.00	3.49	H	9.4

Common Information

Project No.: RKSA240112001
Test Mode: 802.11n20 Mode High Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Klein Zhu

Full Spectrum



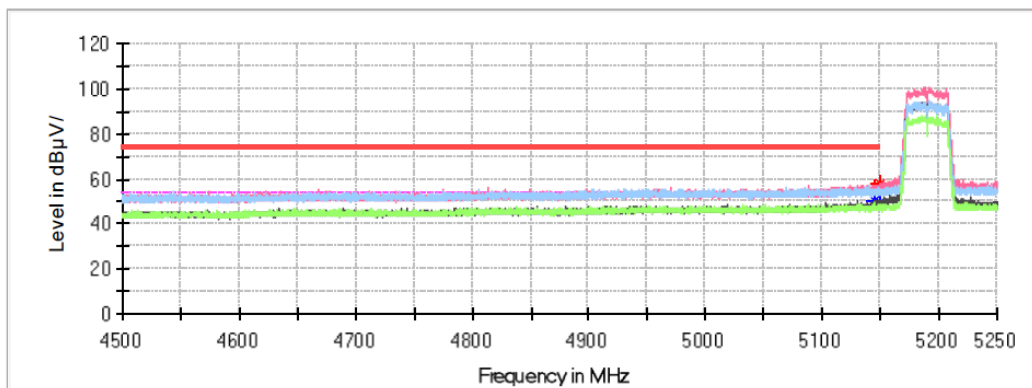
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
5365.822000	---	48.01	54.00	5.99	V	10.3
5365.822000	58.43	---	74.00	15.57	V	10.3
5391.304000	55.46	---	74.00	18.54	H	10.4
5391.304000	---	50.09	54.00	3.91	H	10.4

802.11ac40 Mode:**Common Information**

Project No.:	RKSA240112001
Test Mode:	802.11ac40 Mode Low Channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer:	Klein Zhu

Full Spectrum

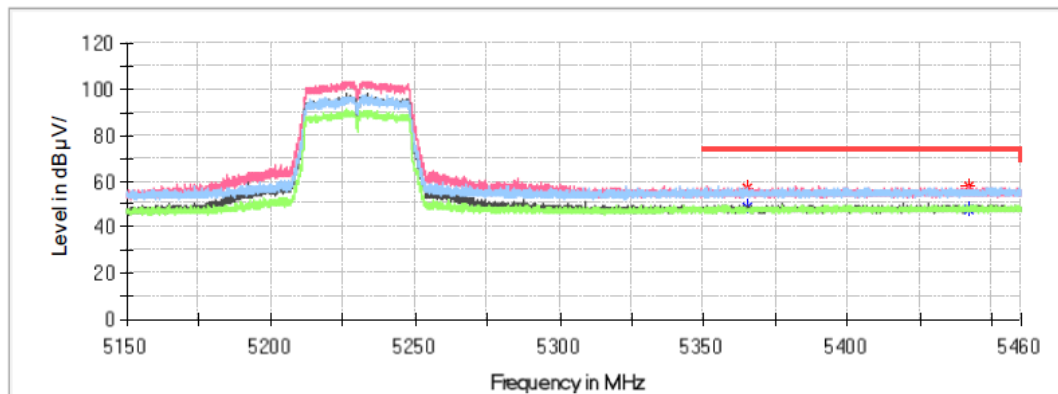
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5144.325000	---	50.19	54.00	3.81	V	9.4
5144.325000	56.23	---	74.00	17.77	V	9.4
5149.725000	---	49.62	54.00	4.38	V	9.4
5149.725000	57.73	---	74.00	16.27	V	9.4

Common Information

Project No.: RKSA240112001
Test Mode: 802.11ac40 Mode High Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Klein Zhu

Full Spectrum



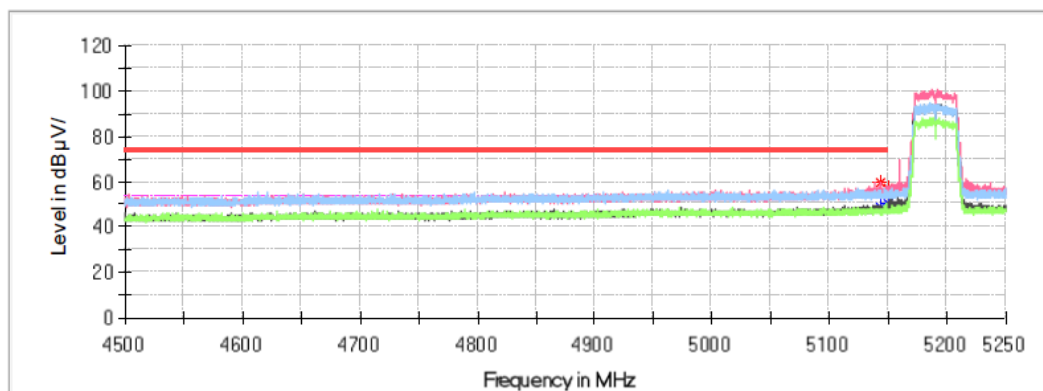
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5365.078000	57.43	---	74.00	16.57	V	10.3
5365.078000	---	48.30	54.00	5.70	V	10.3
5441.834000	---	47.48	54.00	6.52	V	10.6
5441.834000	58.15	---	74.00	15.85	V	10.6

802.11n-HT40 Mode:**Common Information**

Project No.: RKSA240112001
Test Mode: 802.11n40 Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Klein Zhu

Full Spectrum

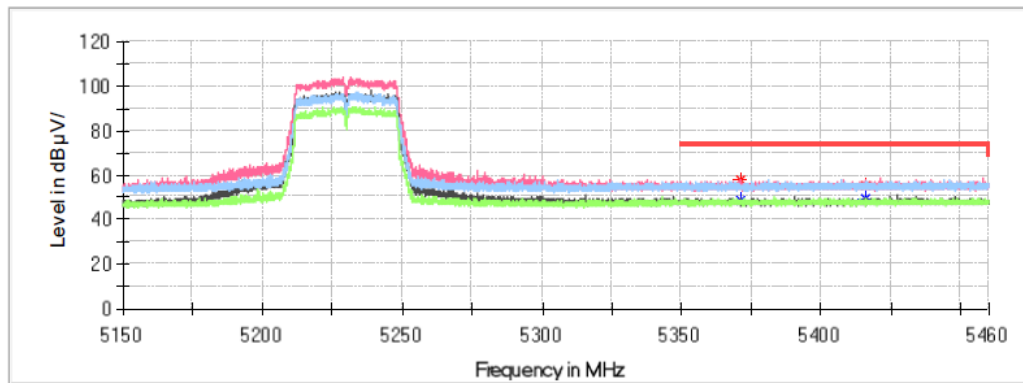
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5142.825000	59.58	---	74.00	14.42	V	9.4
5142.825000	---	48.61	54.00	5.39	V	9.4
5149.875000	56.89	---	74.00	17.11	V	9.4
5149.875000	---	50.71	54.00	3.29	V	9.4

Common Information

Project No.: RKSA240112001
Test Mode: 802.11n40 Mode High Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Klein Zhu

Full Spectrum



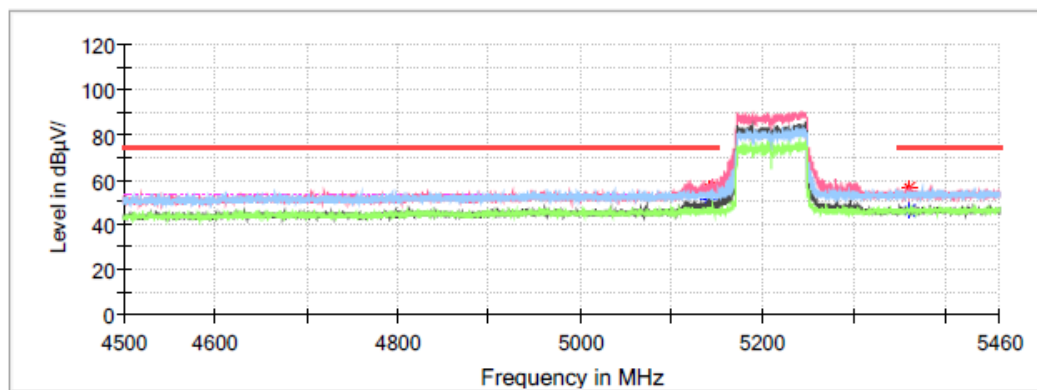
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5371.433000	---	48.74	54.00	5.26	H	10.3
5371.433000	57.91	---	74.00	16.09	H	10.3
5416.011000	55.61	---	74.00	18.39	V	10.5
5416.011000	---	49.92	54.00	4.08	V	10.5

802.11ac80 Mode:**Common Information**

Project No.: RKSA240112001
Test Mode: 802.11ac80
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Klein Zhu

Full Spectrum

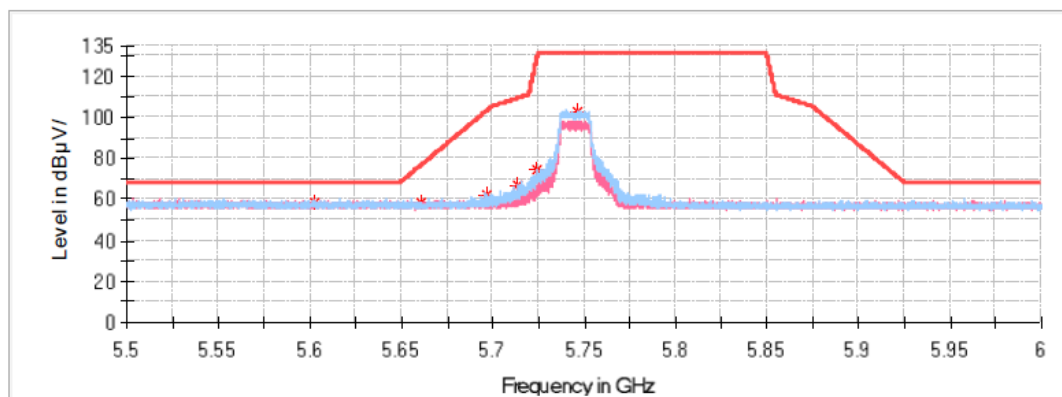
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5140.416000	56.26	---	74.00	17.74	V	8.2
5140.416000	---	51.33	54.00	2.67	V	8.2
5361.024000	---	46.31	54.00	7.69	H	8.8
5361.024000	56.42	---	74.00	17.58	H	8.8

Bandedge Emissions Test (5725-5850MHz Band):**802.11a Mode:****Common Information**

Project No.: RKSA240112001
Test Mode: 802.11a Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum

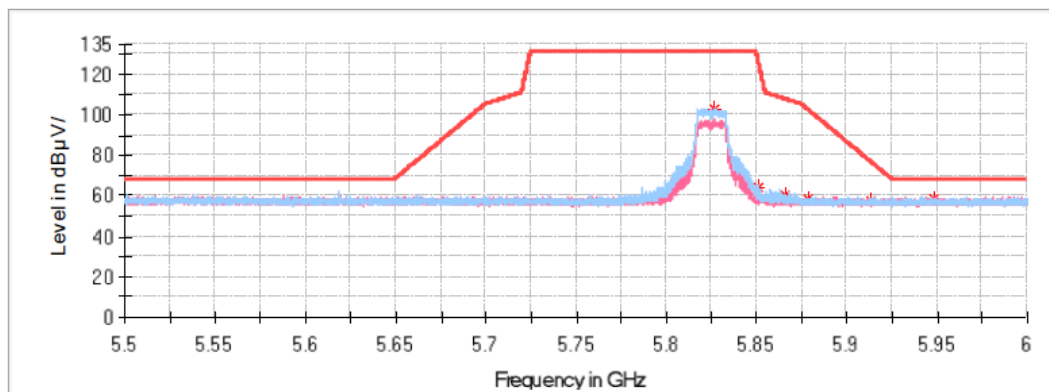
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
5602.100000	58.70	---	68.20	9.50	V	10.7
5661.050000	58.63	---	76.38	17.74	H	10.6
5697.050000	62.15	---	103.02	40.87	H	10.6
5713.500000	67.38	---	108.98	41.60	H	10.6
5724.450000	74.15	---	128.96	54.80	H	10.5

Common Information

Project No.: RKSA240112001
Test Mode: 802.11a Mode High Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum



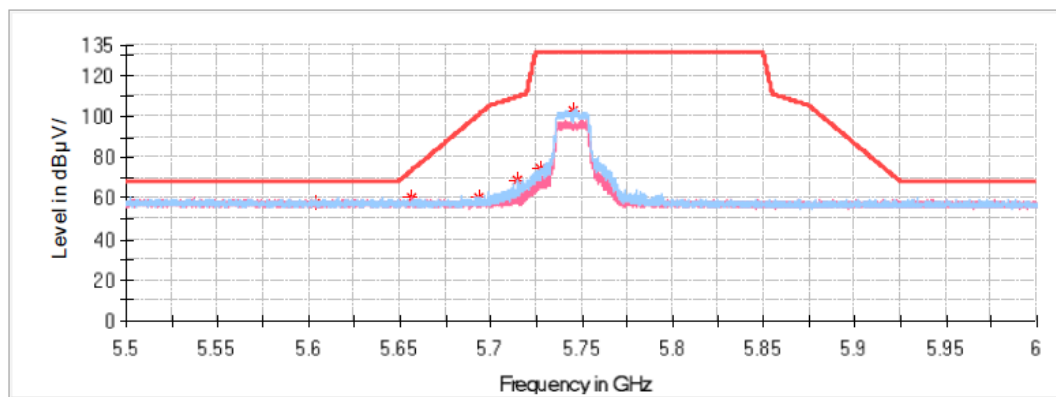
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5851.200000	64.41	---	126.30	61.89	H	10.4
5865.900000	60.73	---	107.75	47.02	H	10.4
5878.750000	58.13	---	102.42	44.29	H	10.3
5913.350000	57.30	---	76.82	19.52	V	10.3
5947.800000	58.73	---	68.20	9.47	V	10.3

802.11ac20 Mode:**Common Information**

Project No.: RKSA240112001
Test Mode: 802.11ac20 Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum

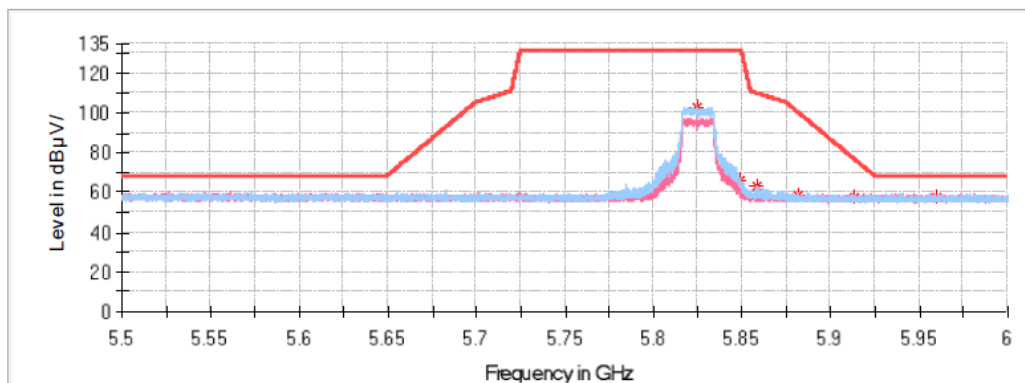
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5603.800000	58.01	---	68.20	10.19	V	10.7
5656.800000	59.97	---	73.23	13.26	V	10.6
5693.150000	60.51	---	100.13	39.62	H	10.6
5715.100000	68.47	---	109.43	40.96	H	10.6

Common Information

Project No.: RKSA240112001
Test Mode: 802.11ac20 Mode High Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum



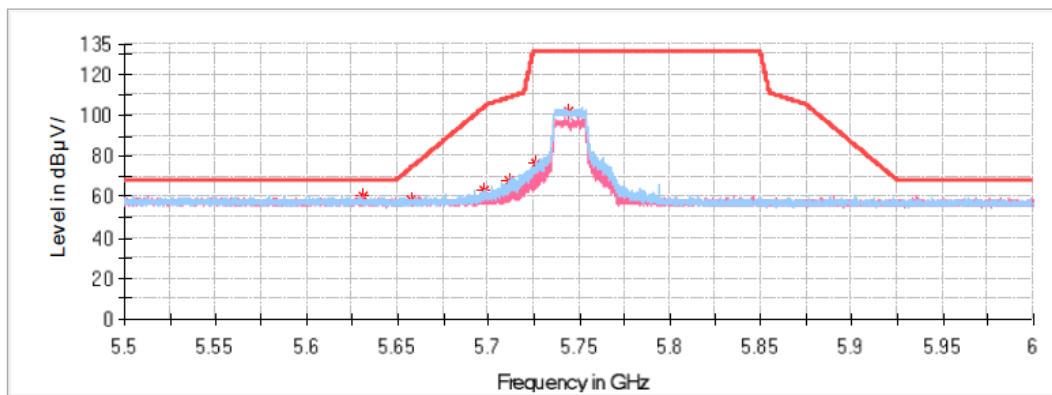
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5858.250000	63.72	---	109.89	46.17	H	10.4
5881.100000	58.50	---	100.69	42.19	V	10.3
5912.900000	57.45	---	77.15	19.70	V	10.3
5959.850000	57.32	---	68.20	10.88	H	10.2

802.11n-HT20 Mode:**Common Information**

Project No.: RKSA240112001
Test Mode: 802.11n20 Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum

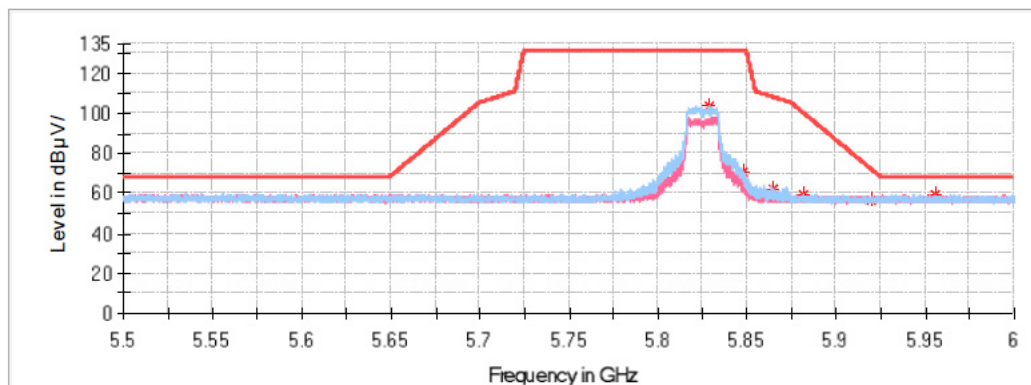
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5630.750000	60.16	---	68.20	8.04	V	10.7
5657.950000	58.95	---	74.08	15.13	H	10.6
5697.200000	62.92	---	103.13	40.21	H	10.6
5711.350000	68.13	---	108.38	40.25	H	10.6

Common Information

Project No.: RKSA240112001
Test Mode: 802.11n20 Mode High Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum



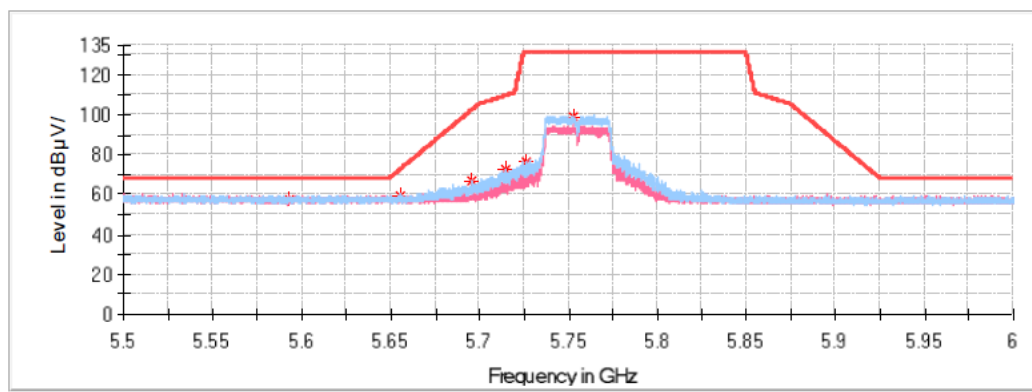
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5864.950000	62.27	---	108.01	45.75	H	10.4
5881.200000	59.52	---	100.61	41.09	H	10.3
5919.650000	56.81	---	72.16	15.35	V	10.3
5955.500000	59.37	---	68.20	8.83	V	10.2

802.11ac40 Mode:**Common Information**

Project No.: RKSA240112001
Test Mode: 802.11ac40 Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum

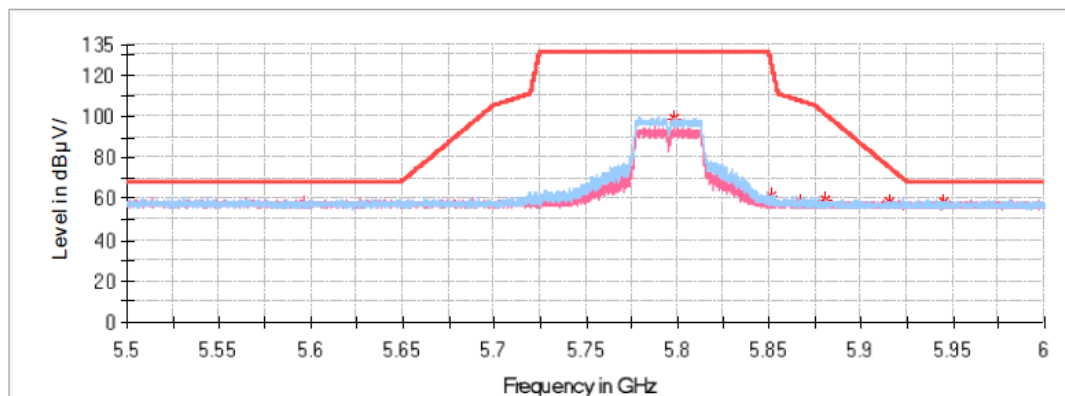
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5592.650000	58.00	---	68.20	10.20	H	10.7
5655.700000	59.46	---	72.42	12.95	H	10.6
5695.500000	66.56	---	101.87	35.31	H	10.6
5715.000000	72.22	---	109.40	37.18	H	10.6

Common Information

Project No.: RKSA240112001
Test Mode: 802.11ac40 Mode High Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum



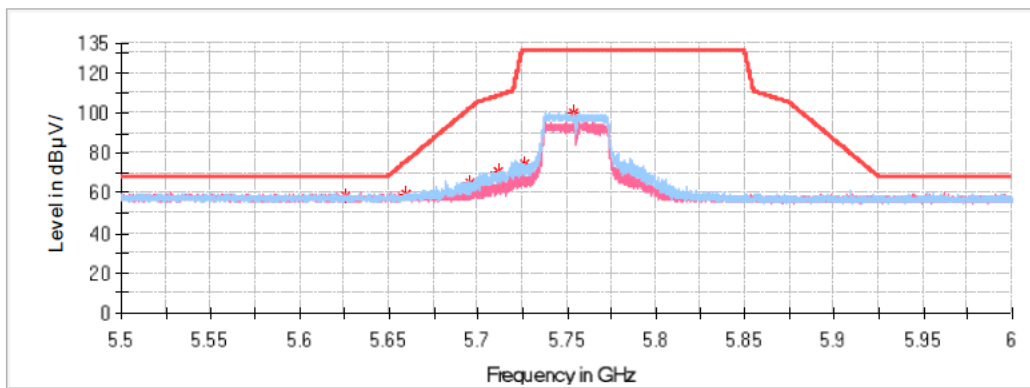
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5850.900000	60.94	---	127.53	66.59	H	10.4
5867.250000	58.67	---	107.37	48.70	H	10.4
5880.600000	59.49	---	101.06	41.57	H	10.3
5915.750000	58.18	---	75.04	16.87	H	10.3
5945.250000	58.28	---	68.20	9.92	H	10.3

802.11n-HT40 Mode:**Common Information**

Project No.: RKSA240112001
Test Mode: 802.11n40 Mode Low Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum

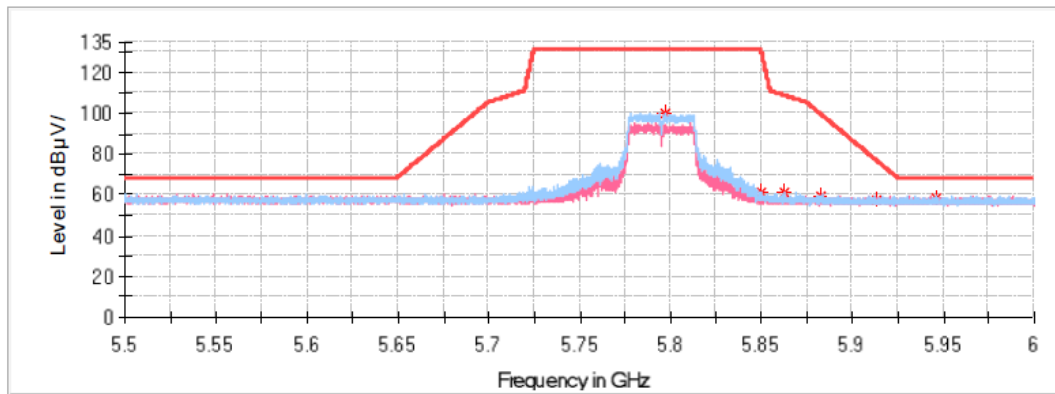
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5625.450000	58.68	---	68.20	9.52	H	10.7
5659.300000	59.51	---	75.08	15.58	V	10.6
5695.350000	65.39	---	101.76	36.37	H	10.6
5711.800000	71.07	---	108.50	37.43	H	10.6

Common Information

Project No.: RKSA240112001
Test Mode: 802.11n40 Mode High Channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Engineer: Peter Wang

Full Spectrum



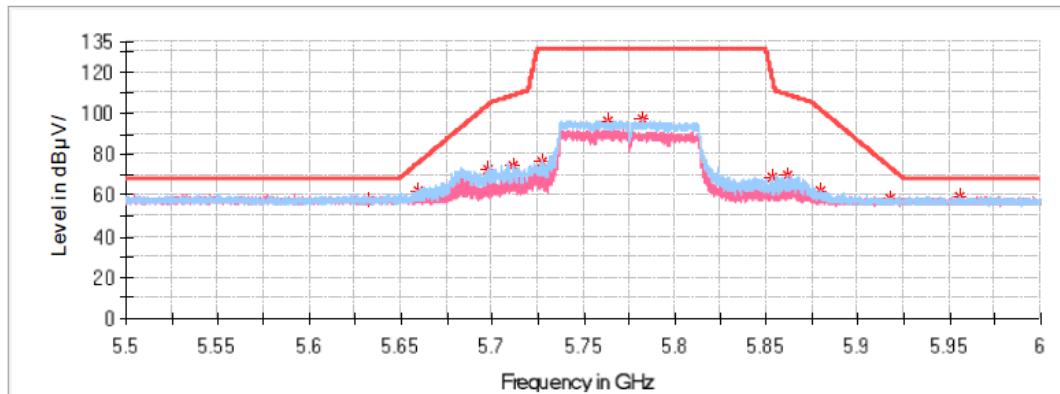
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5850.150000	61.58	---	130.59	69.01	H	10.4
5862.200000	61.75	---	108.78	47.04	H	10.4
5883.100000	59.41	---	99.21	39.80	H	10.3
5912.950000	57.29	---	77.12	19.83	V	10.3
5946.100000	58.38	---	68.20	9.82	V	10.3

802.11ac80 Mode:**Common Information**

Project No.: RKSA240112001
 Test Mode: 802.11ac80 Mode Low Channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
 Test Engineer: Peter Wang

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)
5632.450000	57.51	---	68.20	10.69	V	10.7
5660.100000	62.25	---	75.67	13.42	H	10.6
5697.300000	72.74	---	103.20	30.47	H	10.6
5711.900000	74.17	---	108.53	34.37	H	10.6
5852.650000	69.15	---	120.39	51.24	H	10.4
5861.850000	70.19	---	108.88	38.69	H	10.4
5879.150000	62.54	---	102.13	39.59	H	10.3
5917.550000	58.61	---	73.71	15.10	H	10.3
5955.150000	59.23	---	68.20	8.97	H	10.2

EMISSION BANDWIDTH**Test Result:** Compliant*5150-5250 MHz:*

Test mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11 a	Low	5180	27.92	16.96
	Middle	5200	22.24	16.88
	High	5240	22.16	16.88
802.11 n20	Low	5180	22.80	18.08
	Middle	5200	22.88	18.00
	High	5240	22.80	18.00
802.11 n40	Low	5190	43.04	36.96
	High	5230	49.60	37.76
802.11 ac20	Low	5180	22.88	18.08
	Middle	5200	22.88	18.08
	High	5240	23.04	18.08
802.11 ac40	Low	5190	43.52	36.80
	High	5230	43.20	36.80
802.11 ac80	Middle	5210	103.04	77.76

Note: the 99% Occupied Bandwidth have not fall into the band 5250-5350MHz

5725-5850MHz:

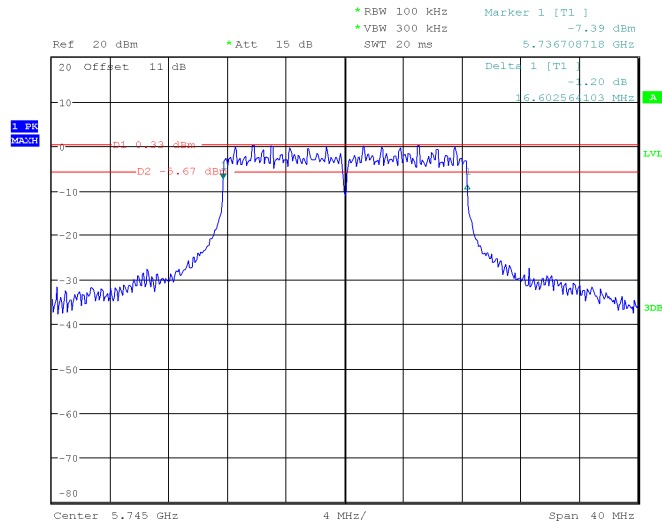
Test mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11 a	Low	5745	25.36	17.04
	Middle	5785	22.96	16.88
	High	5825	23.28	17.04
802.11 n20	Low	5745	23.60	18.08
	Middle	5785	22.88	18.08
	High	5825	23.52	18.00
802.11 n40	Low	5755	43.04	36.96
	High	5795	43.680	36.96
802.11 ac20	Low	5745	23.52	18.08
	Middle	5785	22.96	18.16
	High	5825	24.08	18.16
802.11 ac40	Low	5755	46.08	36.96
	High	5795	43.84	36.96
802.11 ac80	Middle	5775	103.68	78.40

Note: the 99% Occupied Bandwidth have not fall into the band 5470-5725MHz.

Test mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
802.11 a	Low	5745	16.60	0.5
	Middle	5785	16.60	
	High	5825	16.67	
802.11 n20	Low	5745	17.88	
	Middle	5785	17.88	
	High	5825	17.88	
802.11 n40	Low	5755	36.67	
	High	5795	36.67	
802.11 ac20	Low	5745	17.82	
	Middle	5785	17.82	
	High	5825	17.82	
802.11 ac40	Low	5755	36.57	
	High	5795	36.67	
802.11 ac80	Middle	5775	76.92	

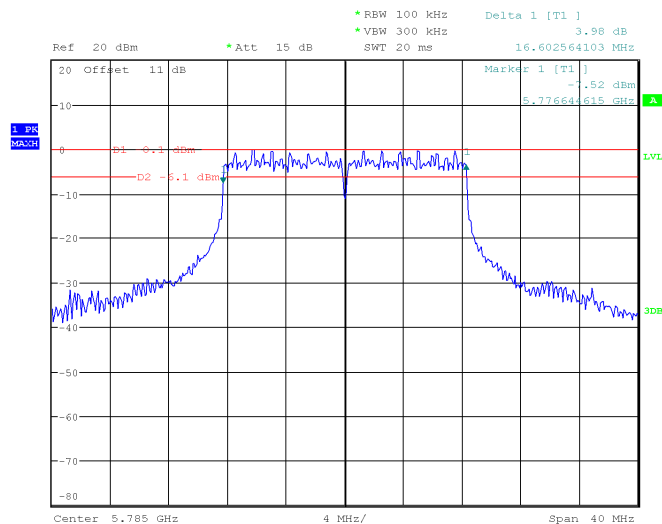
**6dB Bandwidth
5725-5850 MHz Band**

802.11a mode, 5745MHz



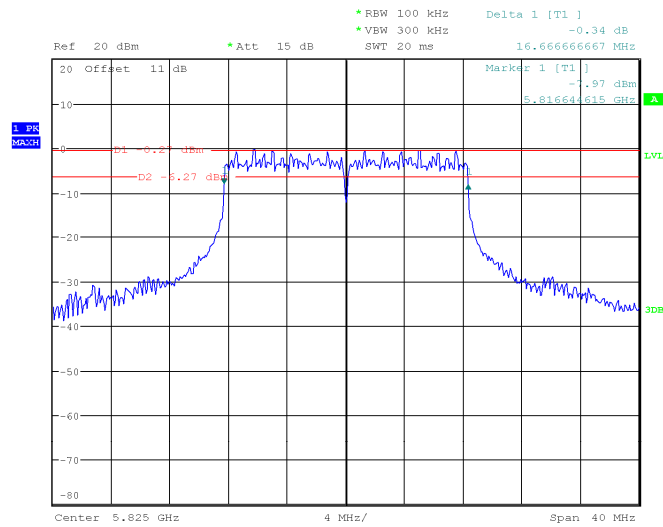
ProjectNo.:RKSA240112001 Tester:Jenny Yang
Date: 16.APR.2024 19:03:47

802.11a mode, 5785MHz



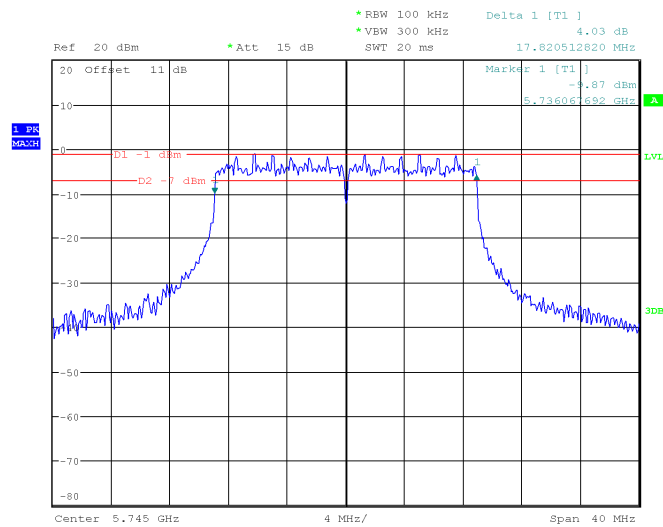
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Date: 16.APR.2024 19:06:06

802.11a mode, 5825MHz



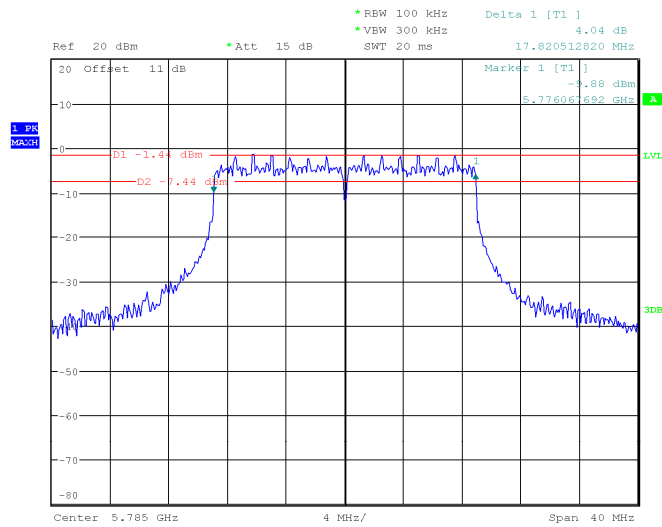
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 16.APR.2024 19:07:38

802.11ac20 mode, 5745MHz



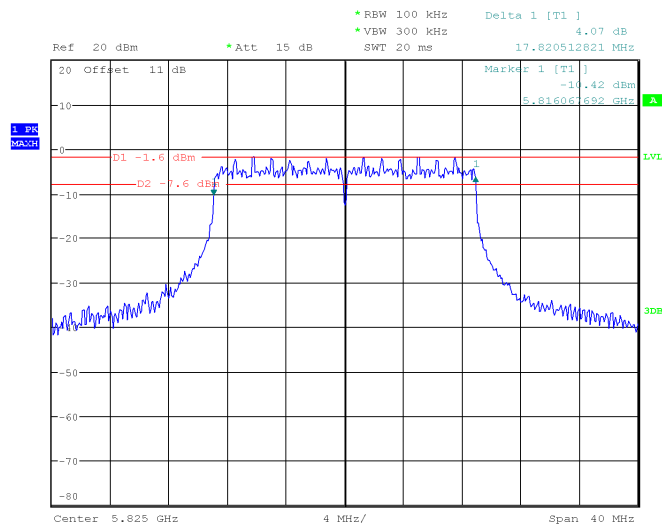
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 16.APR.2024 19:27:13

802.11 ac20 mode, 5785MHz



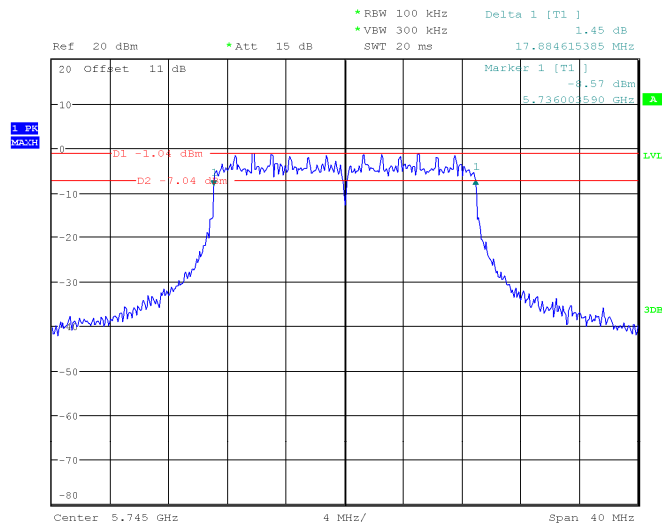
ProjectNo.:RKSA240112001 Tester:Jenny Yang
Date: 16.APR.2024 19:26:02

802.11 ac20 mode, 5825MHz



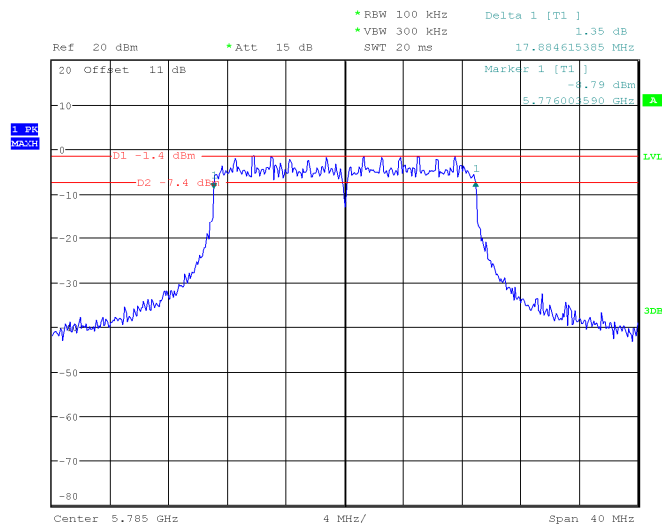
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Date: 16.APR.2024 19:24:33

802.11n-HT20 mode, 5745MHz



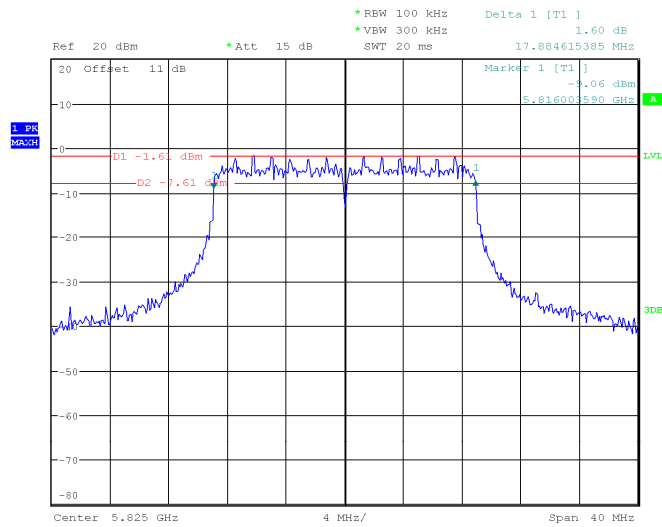
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 Date: 16.APR.2024 19:10:39

802.11n-HT20 mode, 5785MHz



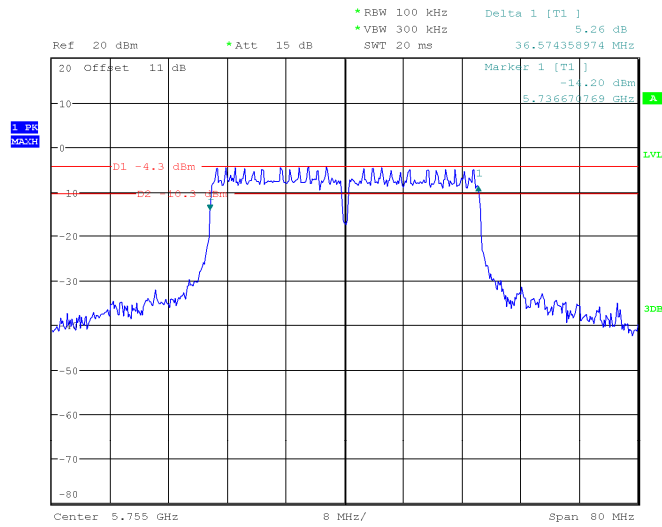
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 Date: 16.APR.2024 19:12:10

802.11n-HT20 mode, 5825MHz



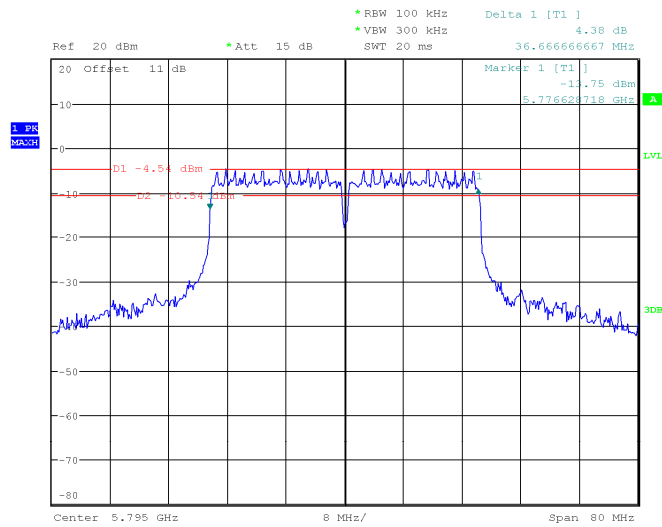
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 Date: 16.APR.2024 19:13:41

802.11ac40 mode, 5755MHz



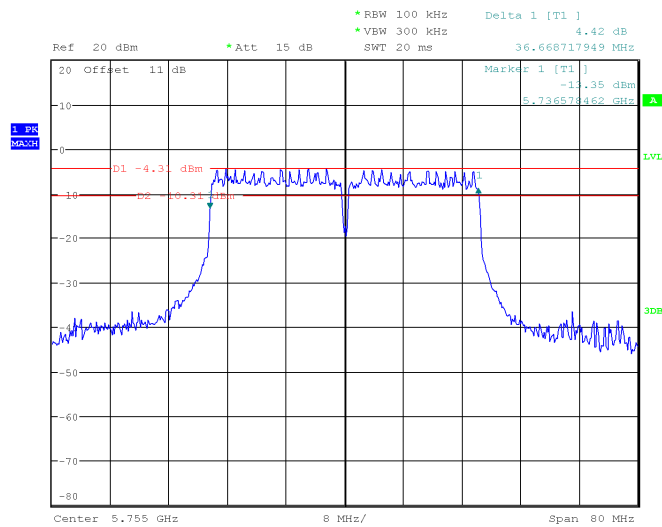
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 Date: 16.APR.2024 19:36:01

802.11 ac40 mode, 5795MHz



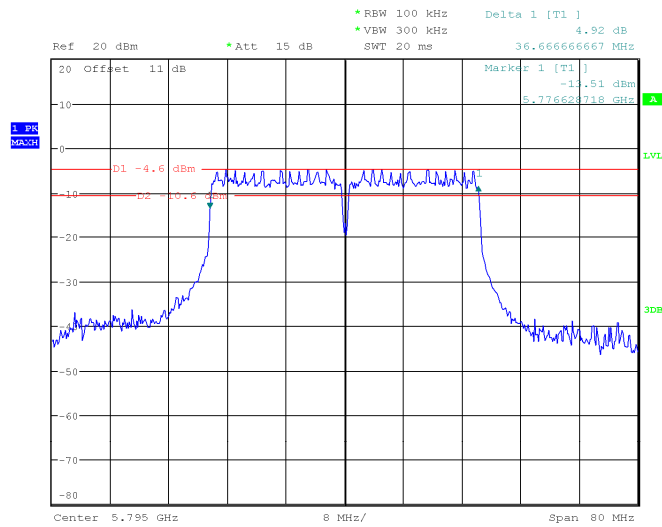
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 Date: 16.APR.2024 19:34:57

802.11n-HT40 mode, 5755MHz



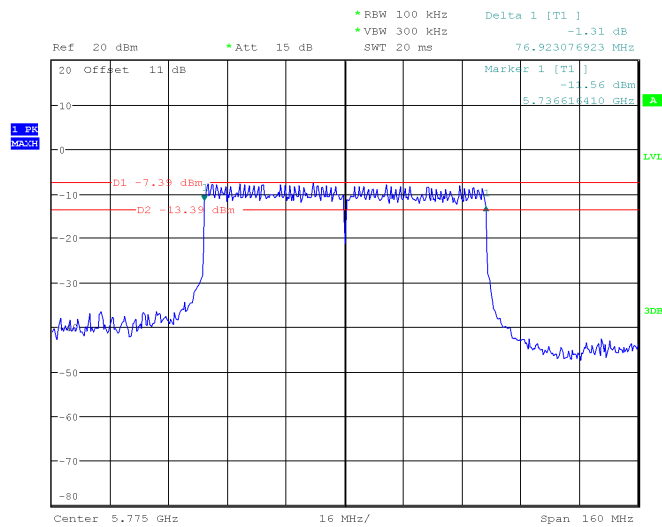
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 Date: 16.APR.2024 19:30:02

802.11n-HT40 mode, 5795MHz



ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 16.APR.2024 19:33:10

802.11ac80 mode, 5775MHz

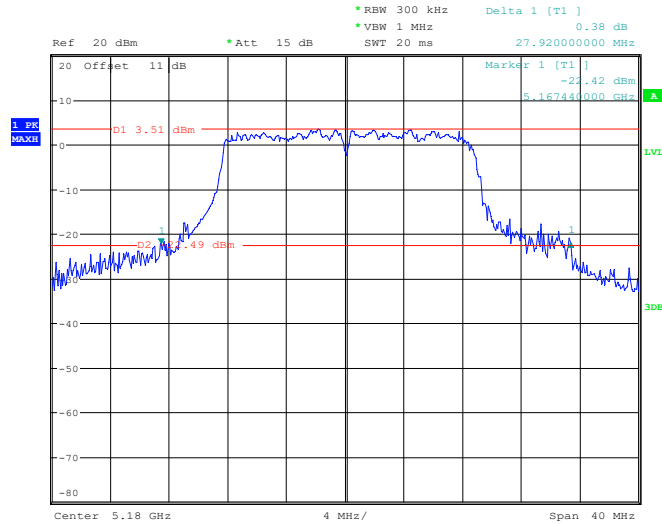


ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 16.APR.2024 17:45:03

26 Bandwidth

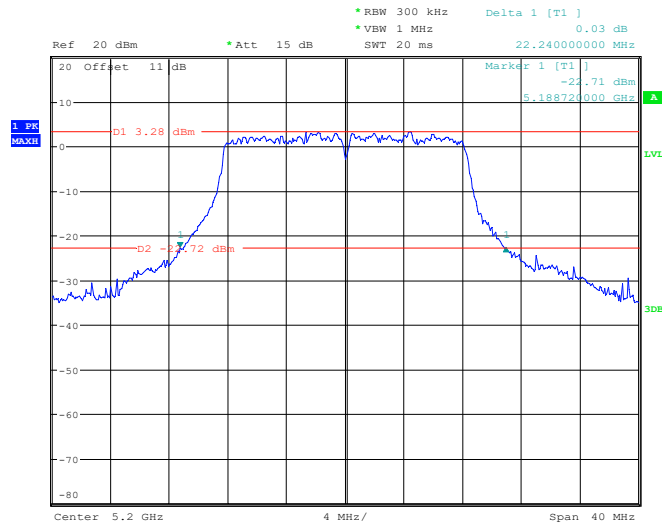
5150-5250 MHz Band:

802.11a mode, 5180MHz



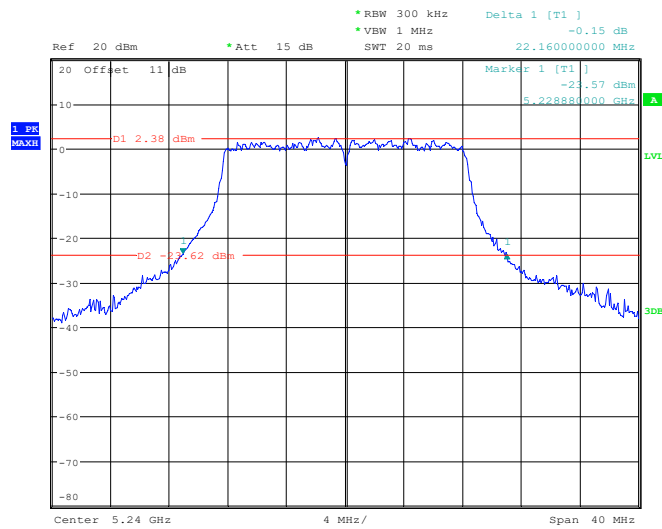
ProjectNo.:RKSA240112001 Tester:Jenny Yang
Date: 18.MAR.2024 11:12:17

802.11a mode, 5200MHz



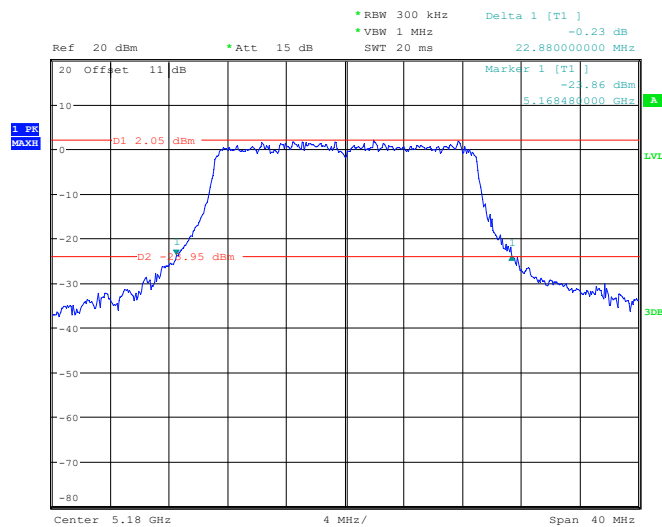
ProjectNo.:RKSA240112001 Tester:Jenny Yang
Date: 18.MAR.2024 11:14:21

802.11a mode, 5240MHz



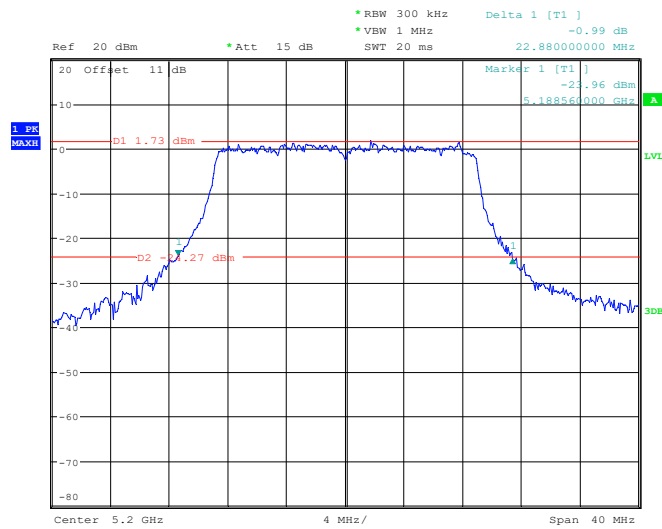
ProjectNo.:RKSA240112001 Tester:Jenny Yang
Date: 18.MAR.2024 11:15:34

802.11ac20 mode, 5180MHz



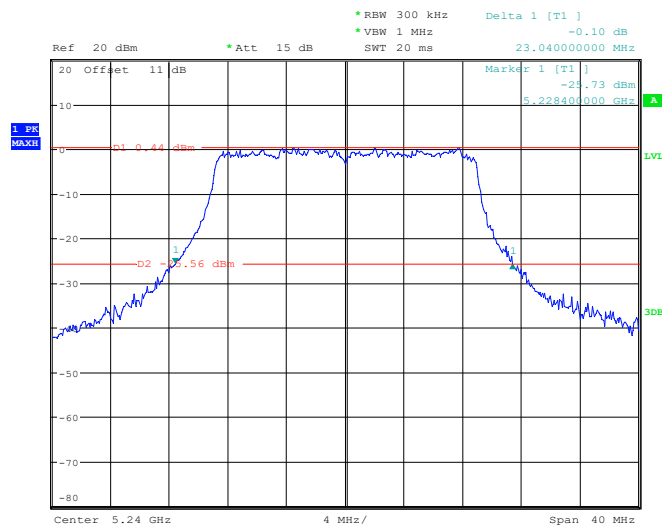
ProjectNo.:RKSA240112001 Tester:Jenny Yang
Date: 18.MAR.2024 11:24:24

802.11 ac20 mode, 5200MHz



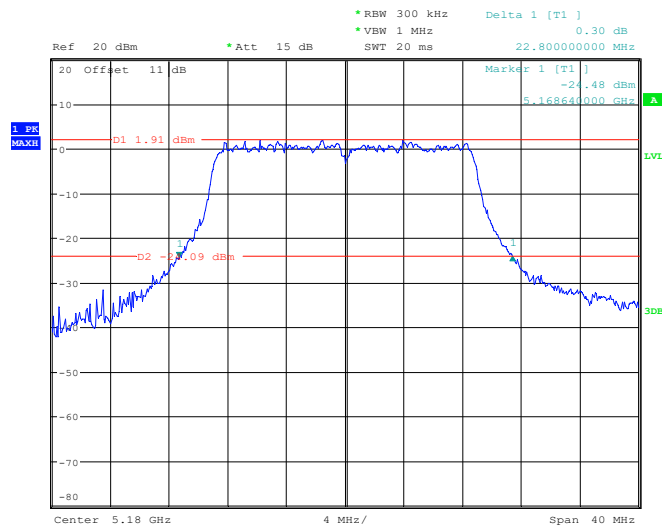
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 18.MAR.2024 11:25:28

802.11 ac20 mode, 5240MHz



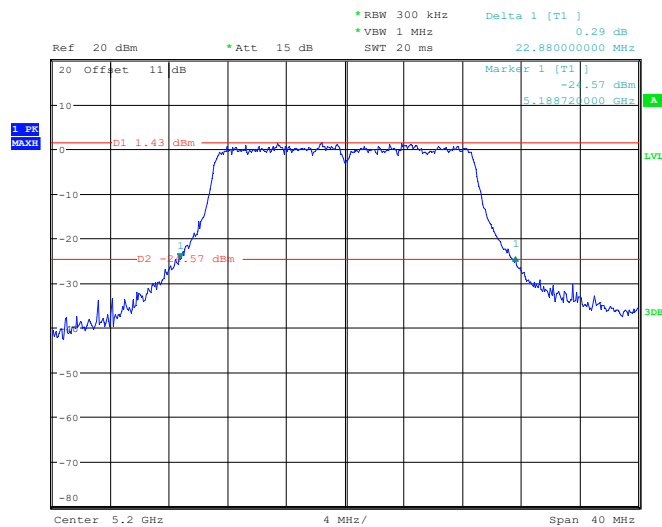
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 18.MAR.2024 11:26:52

802.11n-HT20 mode, 5180MHz



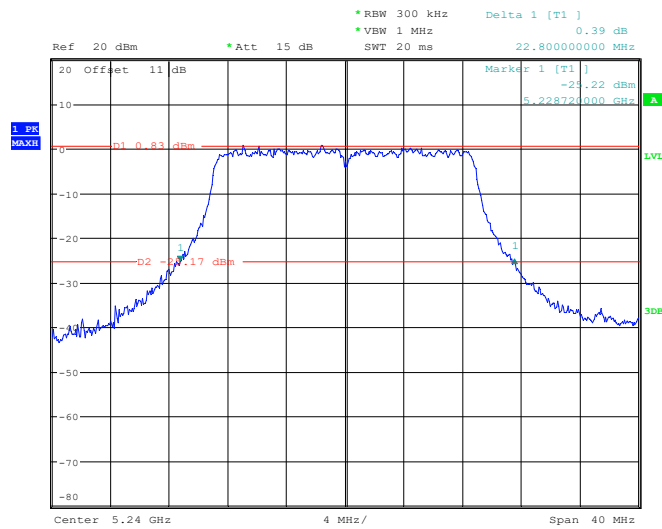
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 Date: 18.MAR.2024 11:17:30

802.11n-HT20 mode, 5200MHz



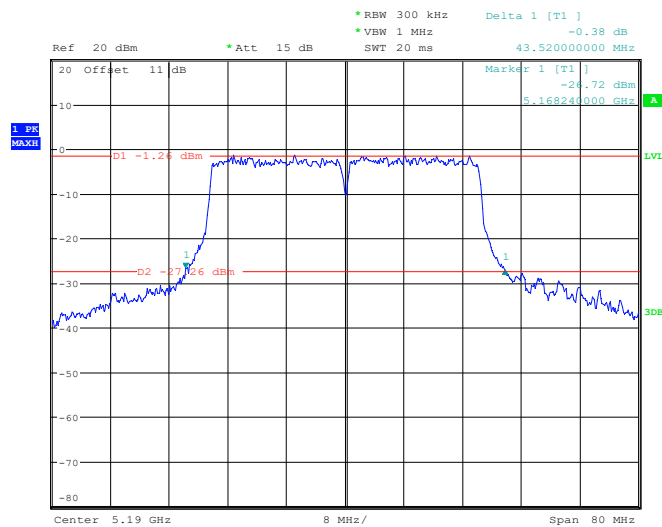
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802.11n-HT20 mode, 5240MHz



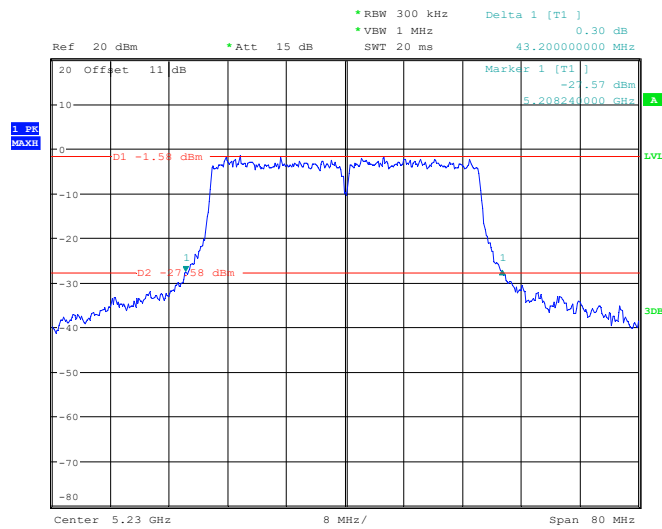
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 18.MAR.2024 11:19:43

802.11ac40 mode, 5190MHz



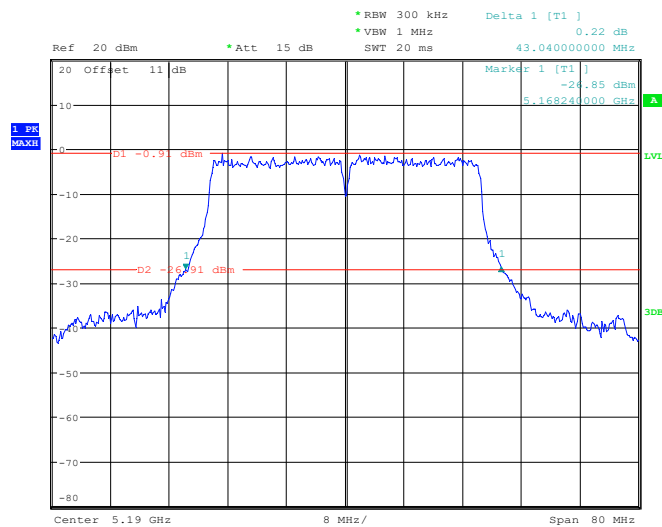
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 18.MAR.2024 11:27:57

802.11 ac40 mode, 5230MHz



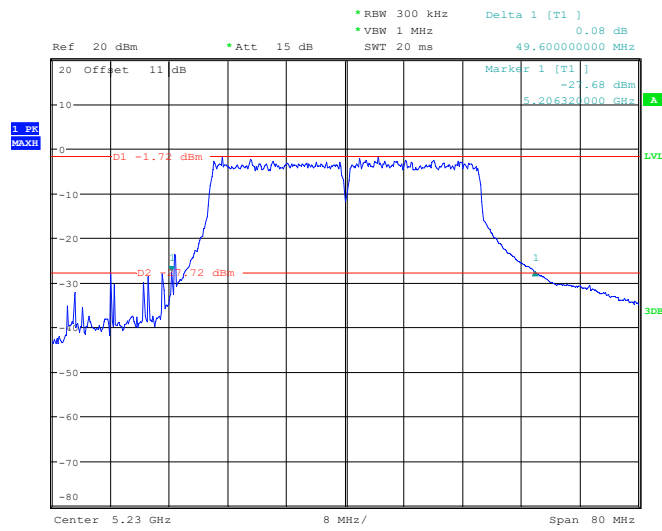
ProjectNo.:RKSA240112001 Tester:Jenny Yang
Date: 18.MAR.2024 11:29:03

802.11n-HT40 mode, 5190MHz



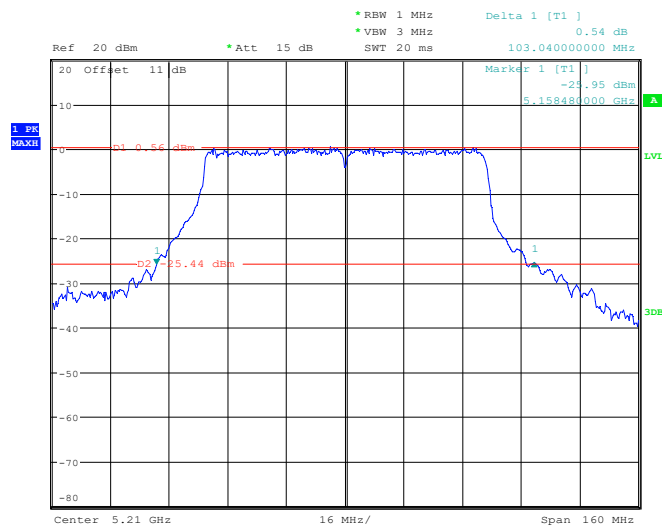
ProjectNo.:RKSA240112001 Tester:Jenny Yang
Date: 18.MAR.2024 11:21:38

802.11n-HT40 mode, 5230MHz



ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 18.MAR.2024 11:22:57

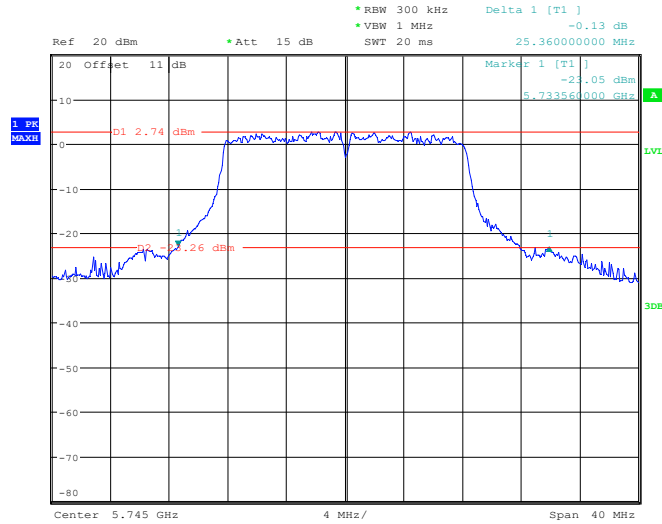
802.11ac80 mode, 5210MHz



ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 18.MAR.2024 11:30:30

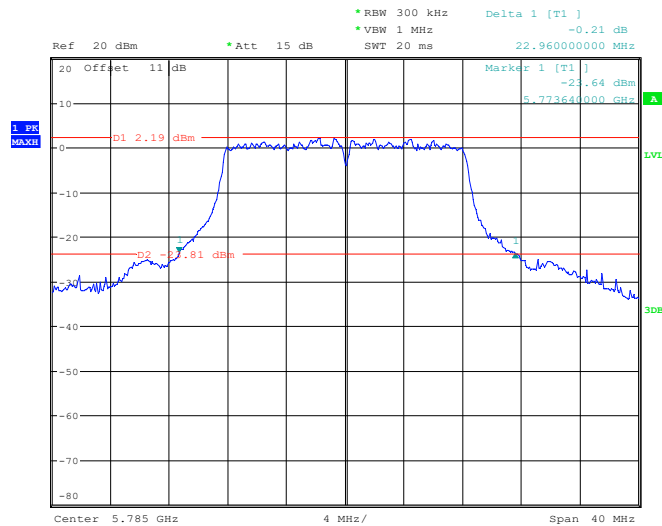
5725-5850 MHz Band

802.11a mode, 5745MHz



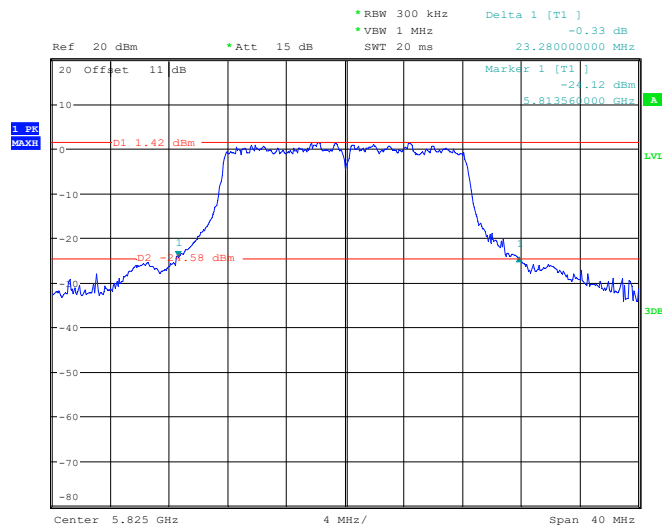
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 20.MAR.2024 10:53:29

802.11a mode, 5785MHz



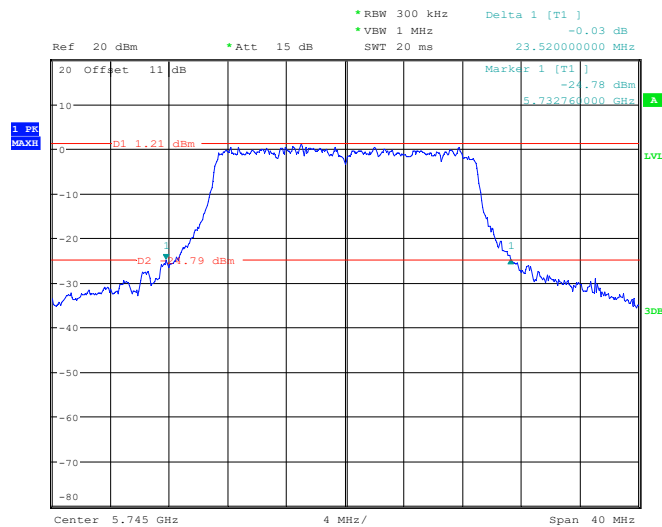
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 20.MAR.2024 10:54:38

802.11a mode, 5825MHz



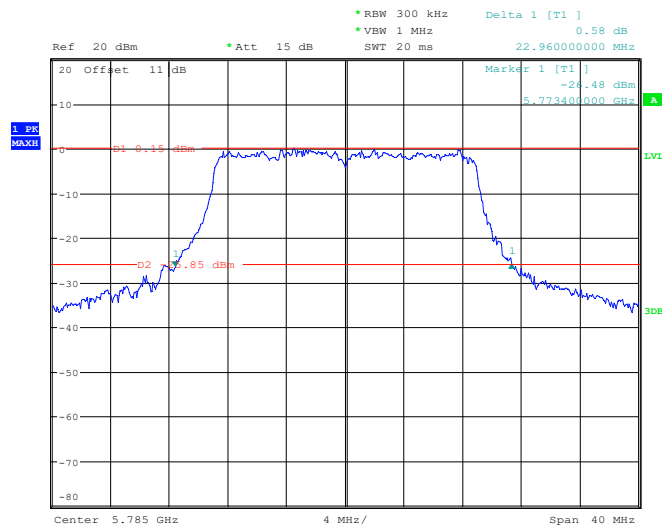
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 20.MAR.2024 10:55:40

802.11ac20 mode, 5745MHz



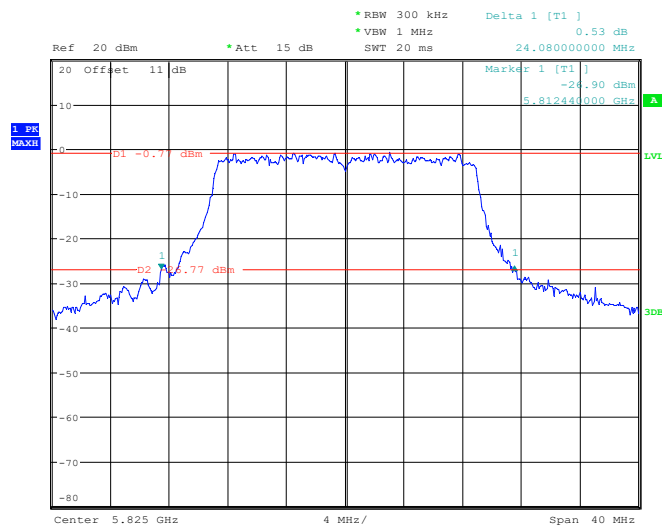
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 20.MAR.2024 11:13:38

802.11 ac20 mode, 5785MHz



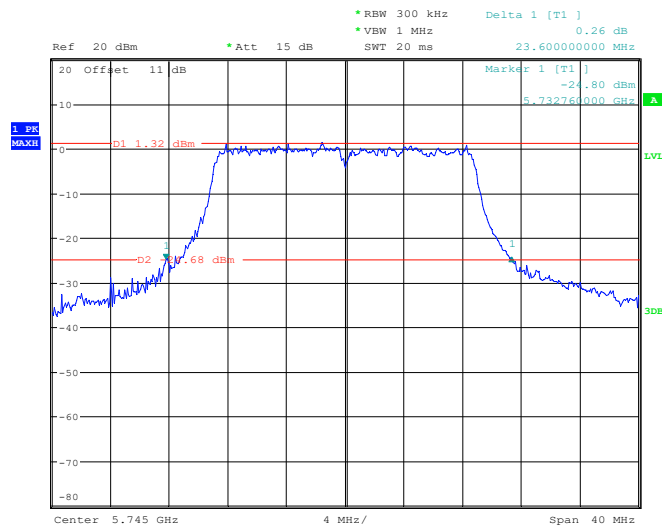
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 20.MAR.2024 11:16:14

802.11 ac20 mode, 5825MHz



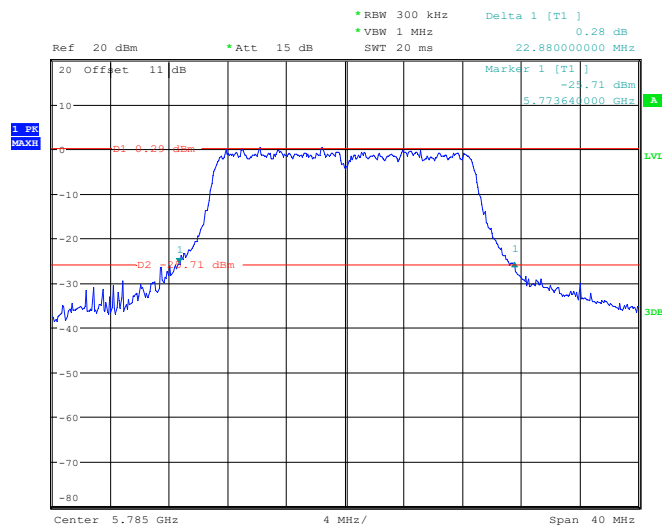
ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 20.MAR.2024 11:17:30

802.11n-HT20 mode, 5745MHz



ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 20.MAR.2024 10:57:17

802.11n-HT20 mode, 5785MHz



ProjectNo.:RKSA240112001 Tester:Jenny Yang
 Date: 20.MAR.2024 11:01:08