

FCC PART 15.407

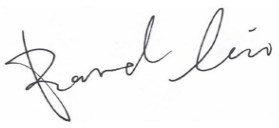
TEST REPORT

For

Signify (China) Investment Co., Ltd.

Building no.9, Lane 888, Tianlin Road, Minhang District, Shanghai 200233, China

FCC ID: 2AGBWMCGW

Report Type: Original Report	Product Name: Gateway Product
Report Number:	<u>RKSB250928004-00E</u>
Report Date:	<u>2025-12-17</u>
Reviewed By:	<u>Bard Liu</u> 
Approved By:	<u>Oscar Ye</u> 
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu Province, China Tel: +86-512-86175000 Fax: +86-512-88934268 www.baclcorp.com.cn

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	RKSB250928004-00E	R1V1	2025-12-17	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Signify (China) Investment Co., Ltd.	
Model:	MC Gateway, GatewayFL	
Model Difference:	Model name	
Product Name:	Gateway Product	
Power Supply:	DC 5V from adapter	
Maximum Average Output Power	5G Wi-Fi B1:	5G Wi-Fi B4:
	802.11a: 10.05 dBm	11.88 dBm
	802.11ac20: 9.2 dBm	12.06 dBm
	802.11ax20 RU26: 4.21 dBm	10.38 dBm
	802.11 ax20 RU52: 5.25 dBm	11.53 dBm
	802.11 ax20 RU106: 8.3 dBm	10.93 dBm
	802.11 ax20 RU242: 7.7 dBm	10.87 dBm
Operating Frequency	5G Wi-Fi: B1: 5150-5250 MHz; B4: 5745-5825 MHz	
Channel Number	5G Wi-Fi B1: 4; B4: 5	
Channel Separation	802.11 a/ac20/n20/ax20: 20 MHz	
Modulation Type	OFDM, OFDMA	
Antenna Type	PCB Antenna	
★Maximum Antenna Gain	Band 1: 6.05 dBi Band 4: 4.45 dBi	

Adapter information

Model: S005BMM0500100

Input: 100-240 V, 50/60 Hz, 0.3 A, (8.0-18.0VA)

Output: 5.0 V, 1.0 A, 5.0 W

Note:

1. The maximum antenna gain was declared by the manufacturer.

2. The differences between the models are explained as below:

The HW and FW of MC Gateway and GatewayFL are identical with each other. The GatewayFL is only used in the FL emergency lighting system of United States and make the data available in the cloud for the user, and MC gateway is more widely used in all connected lighting system in the world and make the data available in the cloud for the user. MC Gateway is tested as representative.

All measurement and test data in this report was gathered from production sample serial number: RKSB250928004-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-09-28.)

Objective

This type approval report is prepared for *Signify (China) Investment 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 C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024[▲], 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℃
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.

The system support 802.11a/n20/ac20/ax20, the 802.11 n20 were reduced since the identical parameters with 802.11ac20.

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

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

Channel	Frequency (MHz)
36	5180
40	5200
44	5220
48	5240

For **5725~5850 MHz** band,

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

Channel	Frequency (MHz)
149	5745
153	5765
157	5785
161	5805
165	5825

EUT Exercise Software

Engineering Mode

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
	802.11ac-VHT20	MCS0	14	14	14
	802.11ax20 RU26	MCS0	8	8	8
	802.11ax20 RU52	MCS0	9	9	9
	802.11ax20 RU106	MCS0	13	13	13
	802.11ax20 RU242	MCS0	13	13	13

U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5725~5850MHz	802.11a	6Mbps	16	16	16
	802.11ac-VHT20	MCS0	16	16	16
	802.11ax20 RU26	MCS0	14	14	14
	802.11ax20 RU52	MCS0	14	14	14
	802.11ax20 RU106	MCS0	14	14	14
	802.11ax20 RU242	MCS0	14	14	14

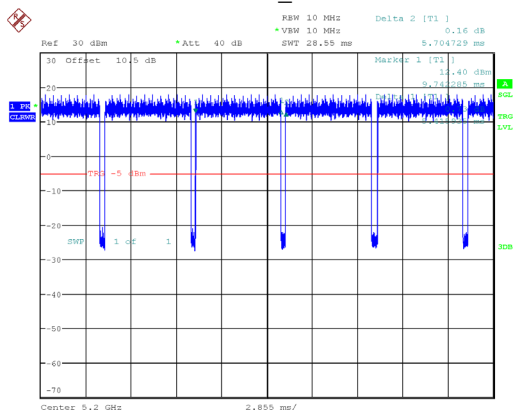
Note: The power level was declared by the applicant.

Duty Cycle:**Environmental Conditions & Test Information**

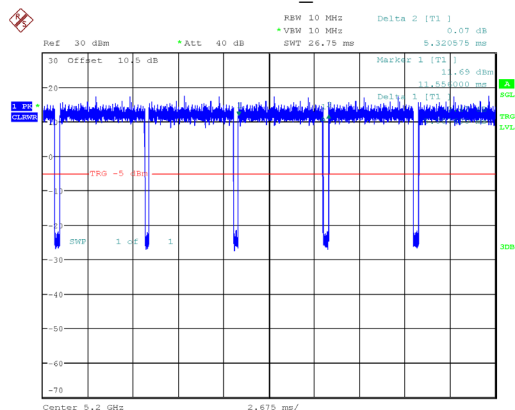
Test Date:	2025-11-13 to 2025-11-27
Temperature:	24.1-25.2°C
Relative Humidity:	51-55 %
ATM Pressure:	101.2-102.8kPa
Test Engineer:	Neil Zhou

5150-5250MHz

802.11a_5200MHz



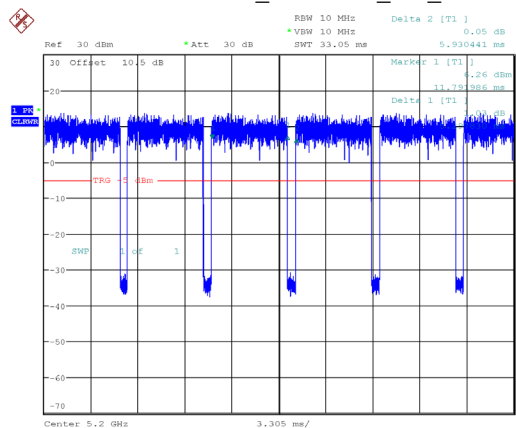
802.11ac20_5200MHz



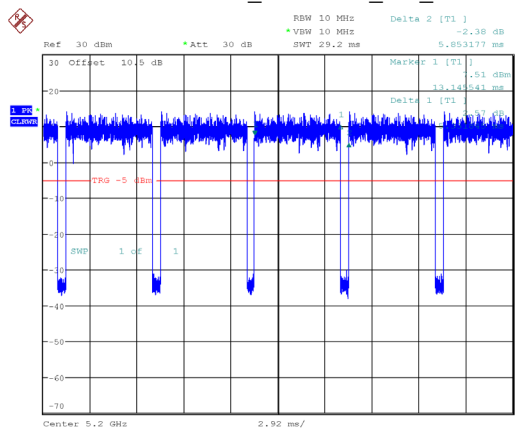
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802.11ax20_5200MHz_RU_26/0



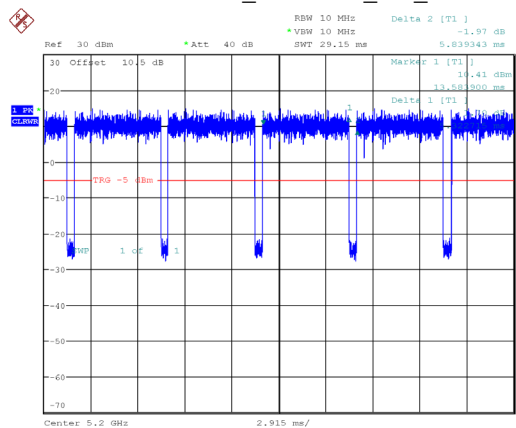
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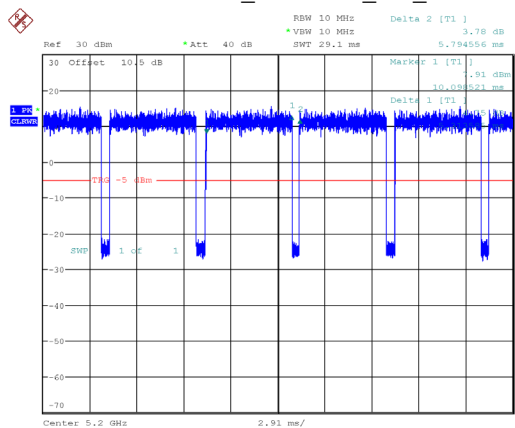
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802.11ax20_5200MHz_RU_106/53



802.11ax20_5200MHz_RU_242/61

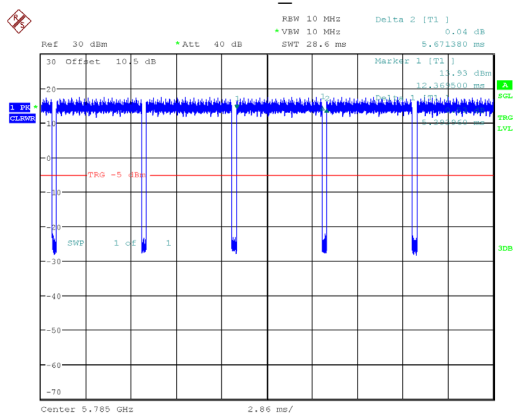


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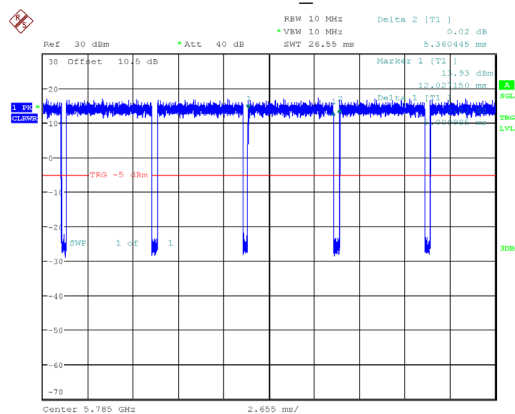
5725-5850MHz

802.11a_5785MHz



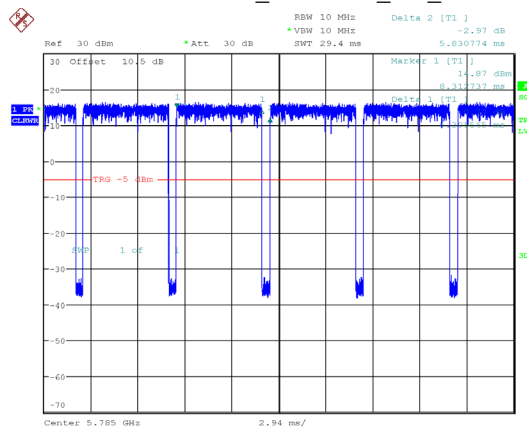
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802.11ac20_5785MHz



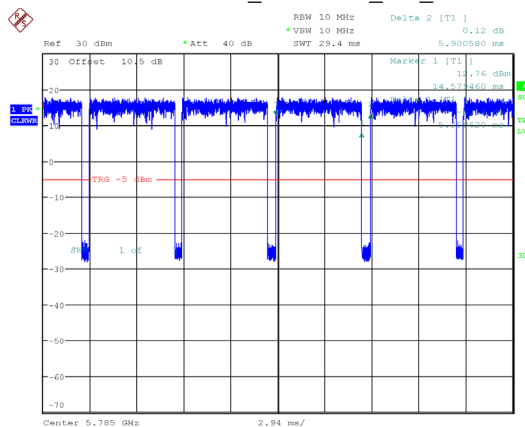
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802.11ax20_5785MHz_RU_26/0



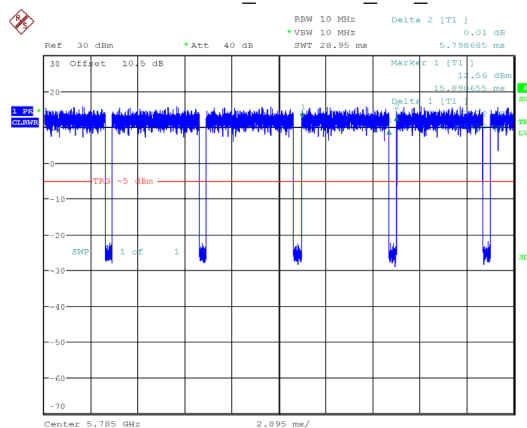
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802.11ax20_5785MHz_RU_52/37



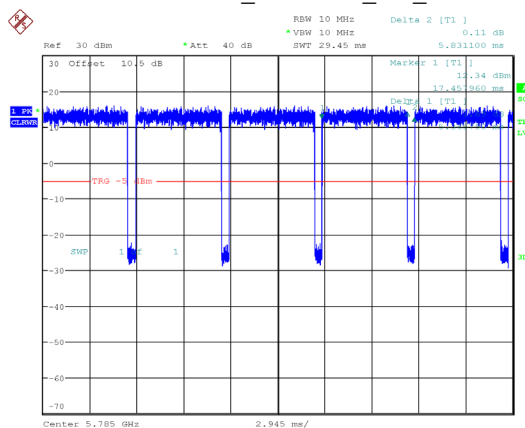
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802.11ax20_5785MHz_RU_106/53



ProjectNo.:RKSB250928004 Tester:Neil Zhou
Date: 14.NOV.2025 15:08:03

802.11ax20_5785MHz_RU_242/61



ProjectNo.:RKSB250928004 Tester:Neil Zhou
Date: 13.NOV.2025 15:47:02

5150MHz-5250Hz:

Mode	Duty Cycle (%)	Ton(ms)	Ton+off(ms)	Duty Cycle Factor(dB)
802.11a	94.93	5.416	5.705	0.23
802.11ac20	94.12	5.008	5.321	0.26
802.11ax20_RU_26	89.34	5.298	5.930	0.49
802.11ax20_RU_52	91.10	5.332	5.853	0.40
802.11ax20_RU_106	91.16	5.323	5.839	0.40
802.11ax20_RU_242	91.70	5.314	5.795	0.38

5725MHz-5850MHz:

Mode	Duty Cycle (%)	Ton(ms)	Ton+off(ms)	Duty Cycle Factor(dB)
802.11a	95.12	5.394	5.671	0.22
802.11ac20	93.47	5.010	5.360	0.29
802.11ax20_RU_26	91.06	5.310	5.831	0.41
802.11ax20_RU_52	90.83	5.360	5.901	0.42
802.11ax20_RU_106	92.36	5.356	5.799	0.35
802.11ax20_RU_242	92.03	5.366	5.831	0.36

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

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

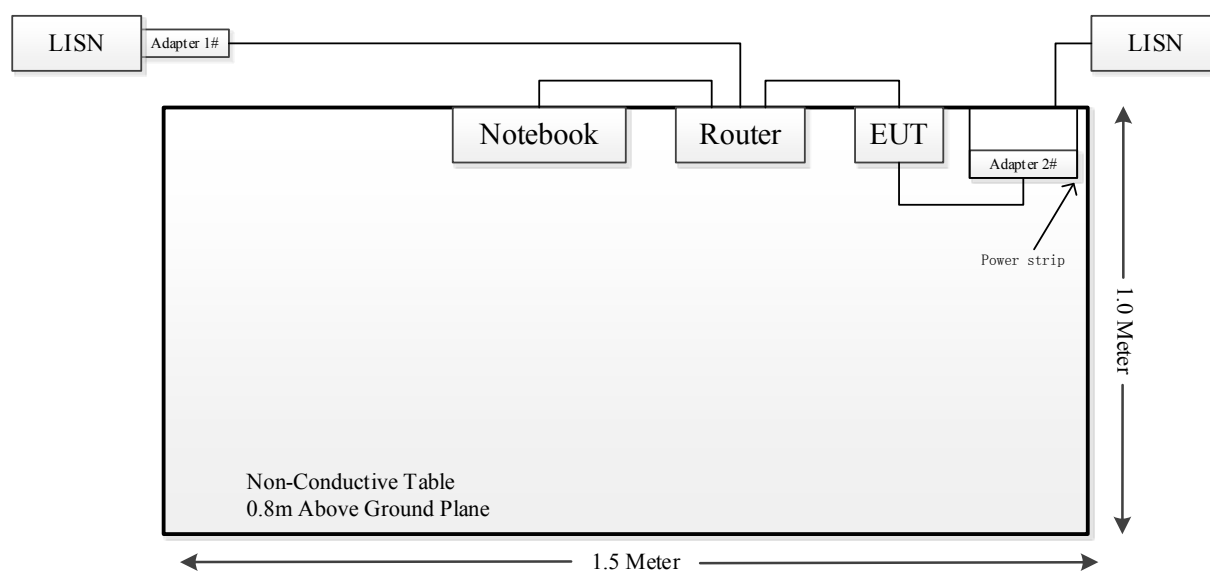
Manufacturer	Description	Model	Serial Number
/	Power strip	/	/
/	Adapter 1#	/	/
TP-LINK	Router	TL-XDR3010	12373X0002080
Lenovo	Notebook	Y700P	PF2B7PL5

External I/O Cable

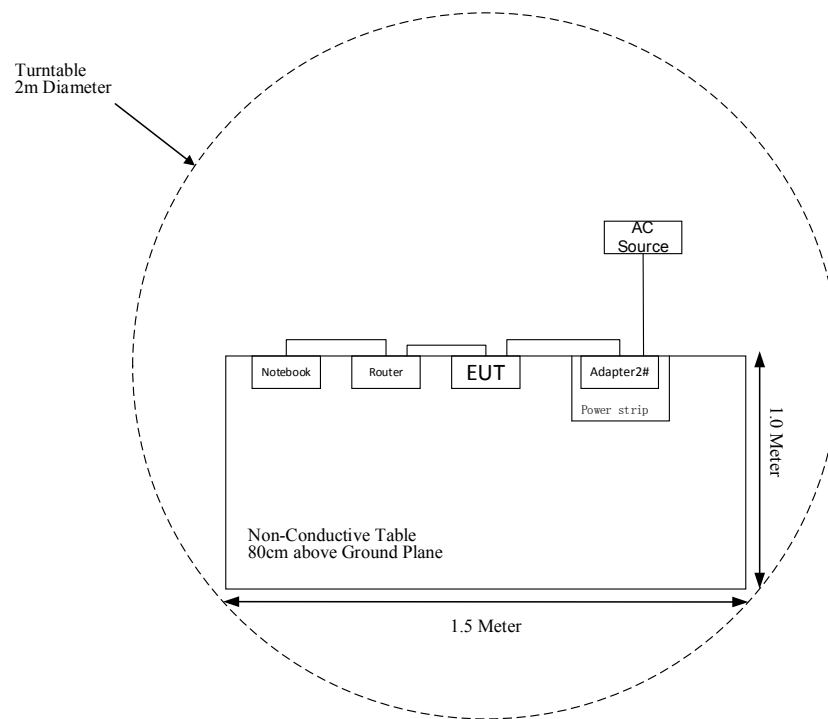
Cable Description	Length (m)	From Port	To
Power Cable 1	1.5	EUT	Adapter 2#
Power Cable 2	1.0	Power strip	AC Source
RJ45 Cable	3.0	EUT	Router
Data Cable	1.0	Router	Notebook

Block Diagram of Test Setup

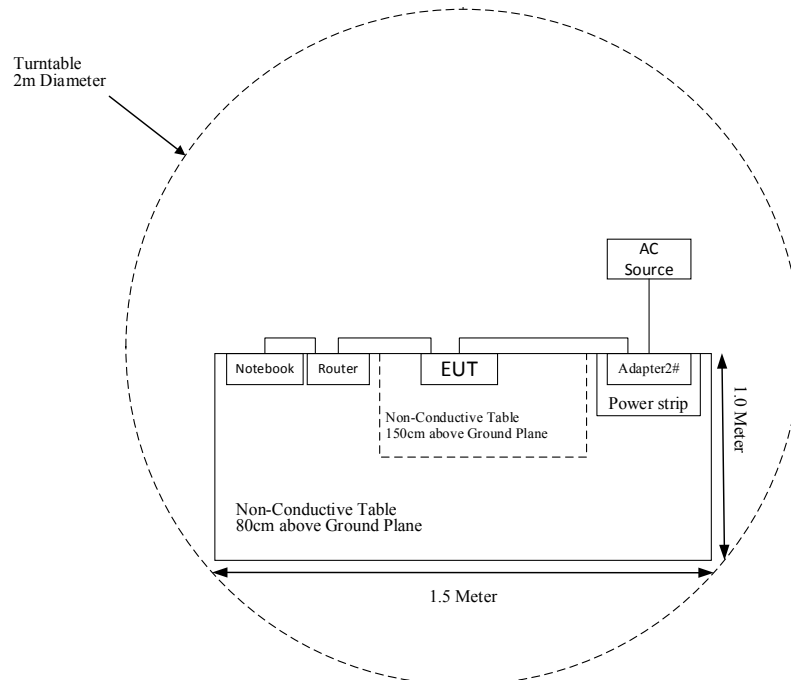
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1 GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§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
§1.1307(b)(1)& §2.1091	RF EXPOSURE	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	2025-04-09	2026-04-08
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
BACL	Active Loop Antenna	1313-1A	4041511	2024-11-22	2027-11-21
Sonoma Instrument	Pre-amplifier	310N	171205	2025-04-09	2026-04-08
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-9	009	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-10	010	2025-04-09	2026-04-08
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2025-04-09	2026-04-08
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2024-12-02	2025-12-01
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
A.H.Systems, inc	Amplifier	PAM-0118P	512	2025-04-09	2026-04-08
SELECTOR	Amplifier	EM18G40G	060726	2025-04-09	2026-04-08
MICRO-TRONICS	Band Reject Filter	BRM50716	G059	2025-04-08	2026-04-07
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-11	011	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-12	012	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-13	013	2025-04-09	2026-04-08
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2025-04-09	2026-04-08
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
Anritsu	Power Sensor	MA24418A	12621	2025-04-09	2026-04-08
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A

Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	101746	2025-04-08	2026-04-07
Rohde & Schwarz	LISN	ENV216	101115	2025-04-08	2026-04-07
Rohde & Schwarz	LISN	ENV216	101130	2025-04-08	2026-04-07
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	100552	2025-04-08	2026-04-07
MICRO-COAX	Coaxial Cable	Cable-15	015	2025-04-08	2026-04-07

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

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

Applicable Standard

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

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

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

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

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

Calculated Formulary

Predication of MPE limit at a given distance

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

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

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

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

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

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

Calculated Data:

Mode	Frequency Range (MHz)	Antenna Gain		★Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)	MPE ratio
		(dBi)	(numeric)	(dBm)	(mW)				
2.4G Wi-Fi	2412~2462	3.55	2.26	21.50	141.25	20	0.0635	1.0	0.0635
BLE	2402-2480	3.75	2.37	15.00	31.62	20	0.0149	1.0	0.0149
Zigbee	2405-2480	3.75	2.37	7.50	5.62	20	0.0026	1.0	0.0026
5G Wi-Fi	5150~5250	6.05	4.03	10.50	11.22	20	0.0090	1.0	0.0090
	5745~5825	4.45	2.79	12.50	17.78	20	0.0099	1.0	0.0099

Note:

1. For the above tune up power were declared by the manufacturer.
2. Zigbee or BLE and 2.4G Wi-Fi/5G WIFI can transmit simultaneously.

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

$$= S_{BLE}/S_{limitBLE} + S_{2.4G Wi-Fi}/S_{limit2.4G Wi-Fi}$$

$$= 0.0149 + 0.0635$$

$$= 0.0784$$

$$< 1.0$$

Result: The device meets MPE at distance 20cm.

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
PCB	5150~5250 MHz	6.05 dBi	50Ω
	5725~5850 MHz	4.45 dBi	50Ω

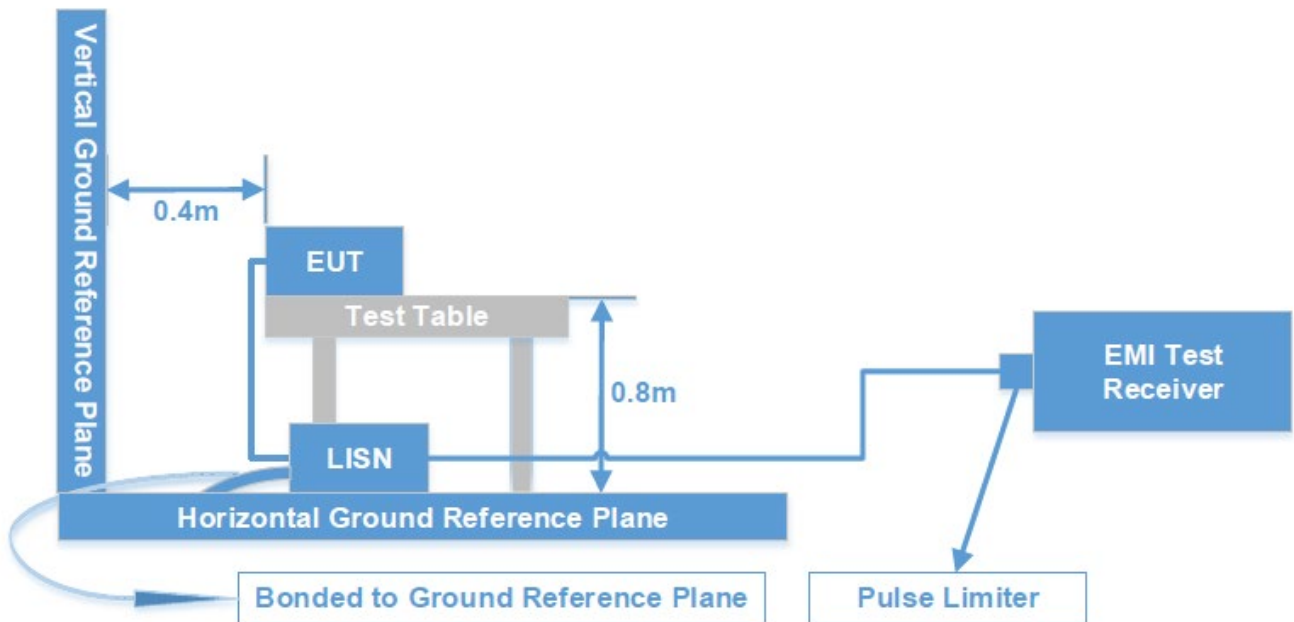
Result: Compliant.

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 C63.10-2020 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

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:

$$\begin{aligned}\text{Factor (dB)} &= \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)} \\ \text{Level (dB}\mu\text{V)} &= \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)}\end{aligned}$$

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:

$$\text{Over Limit (dB)} = \text{Level (dB}\mu\text{V)} - \text{Limit (dB}\mu\text{V)}$$

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 5.25-5.35 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.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

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

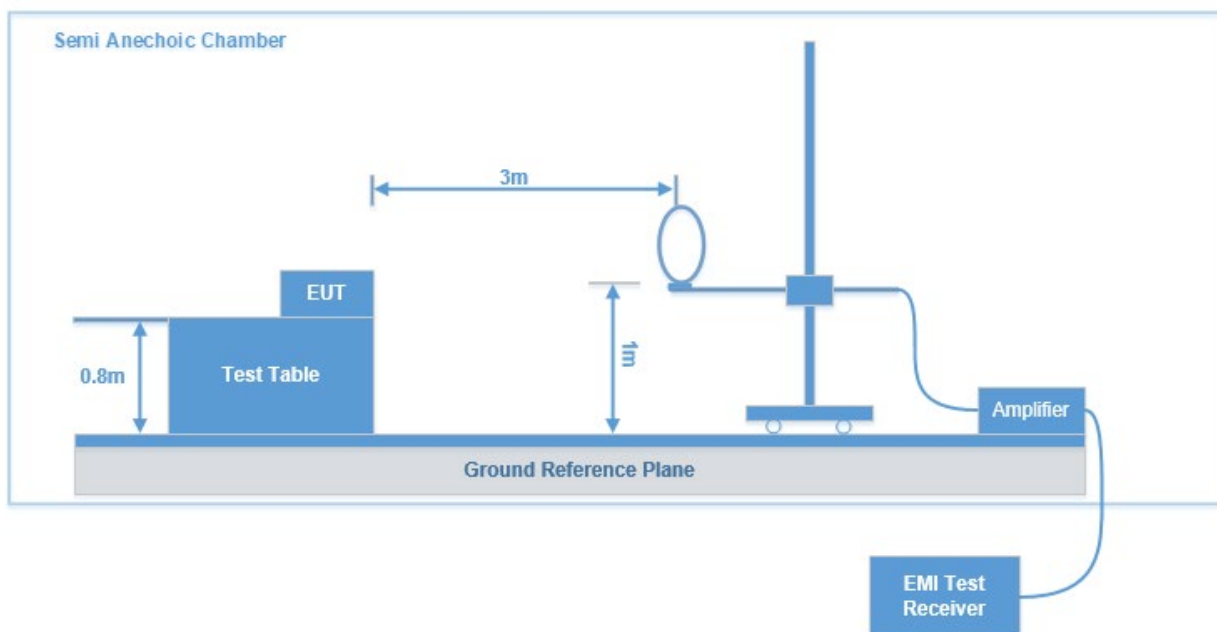
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the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

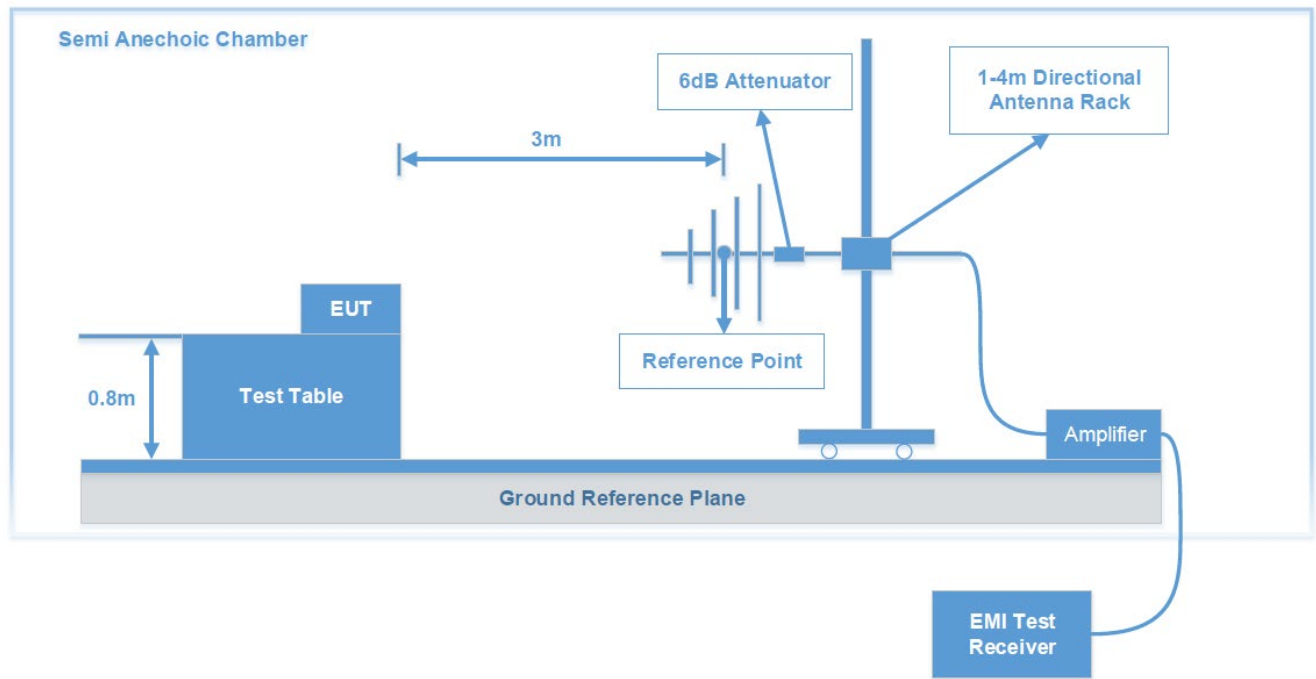
According to 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E [dB\mu V/m] = EIRP [dBm] + 95.2$, for $d = 3$ meters.

Test System Setup

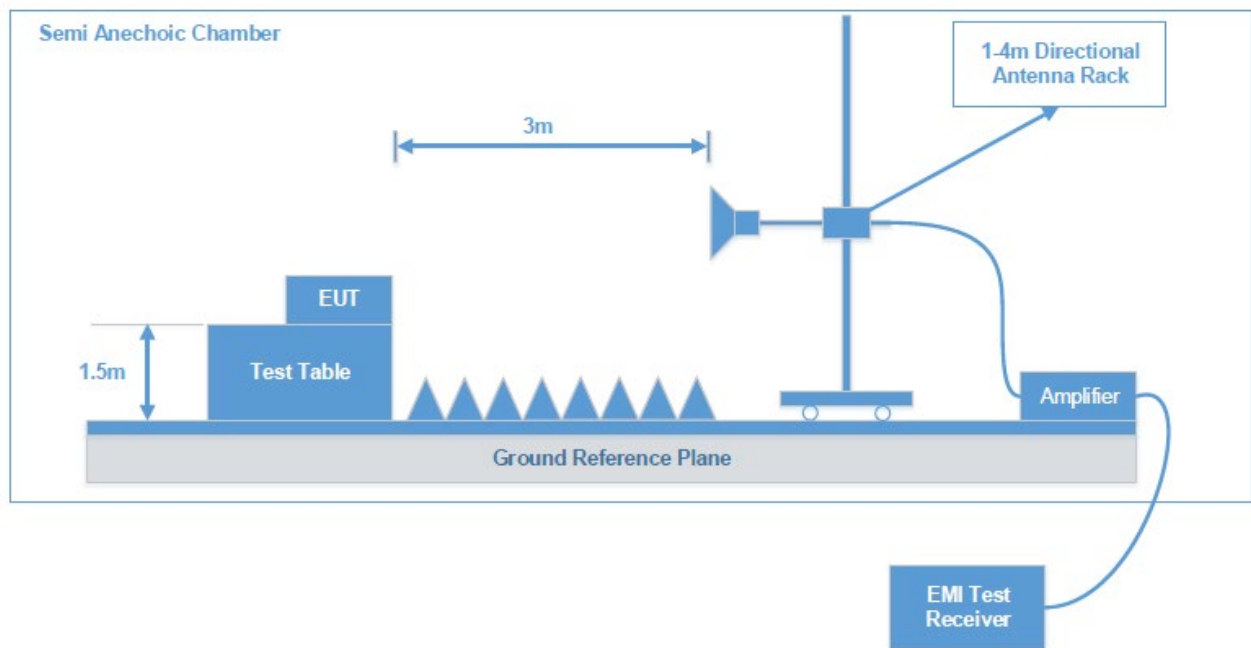
9kHz-30 MHz:



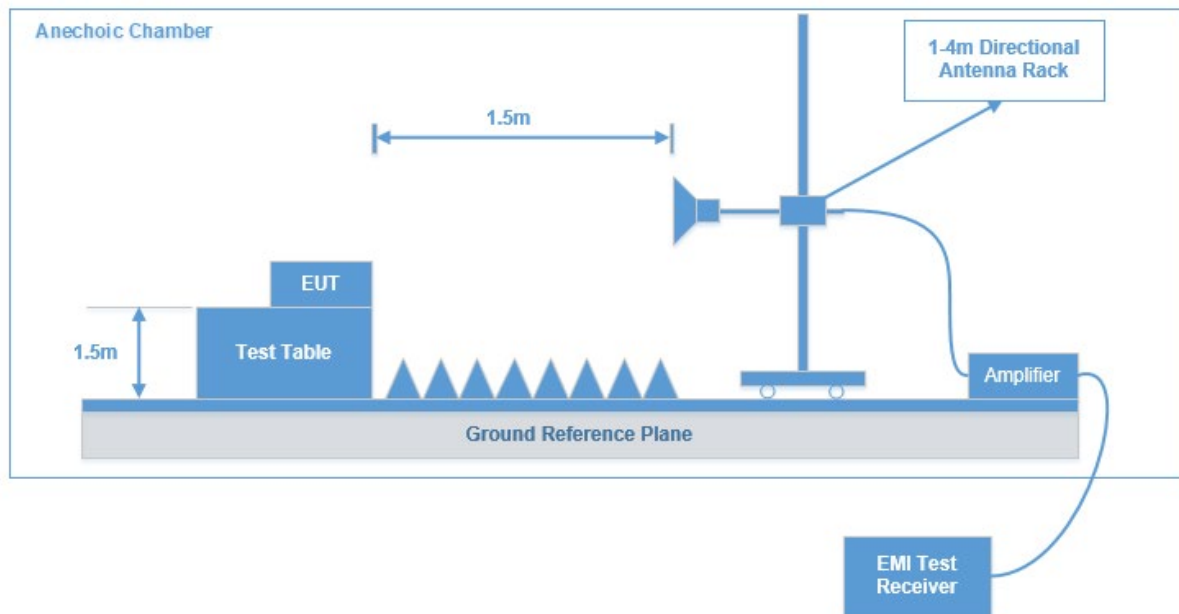
30MHz-1GHz:



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 C63.10-2020. 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 C63.10-2020. 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

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

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

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.

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:

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

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

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

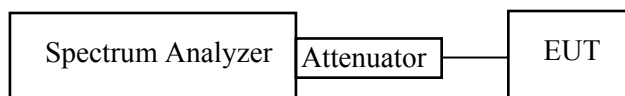
1. Emission Bandwidth (EBW)

- Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = peak.
- Trace mode = max-hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

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:

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- 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 §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER

Applicable Standard

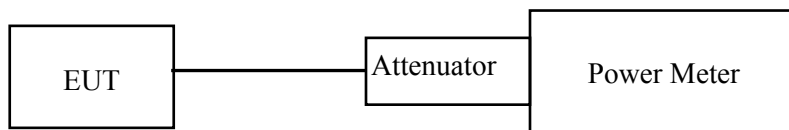
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting 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 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 colocated 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.



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

Test Data: See Appendix

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 colocated 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.

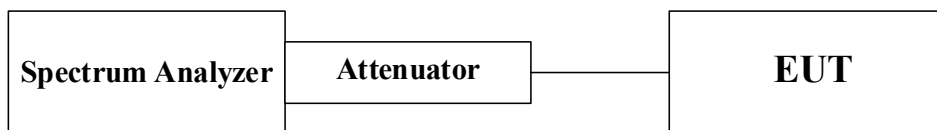
Test Procedure

The measurements are base on C63.10:2020

Duty cycle $\geq 98\%$,Method SA-1 should be applied.

Duty cycle $< 98\%$, duty cycle variations are less than $\pm 2\%$,Method SA-2 should be applied.

Duty cycle $< 98\%$, duty cycle variations exceed $\pm 2\%$,Method SA-3 should be applied.



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

Test Data: See Appendix

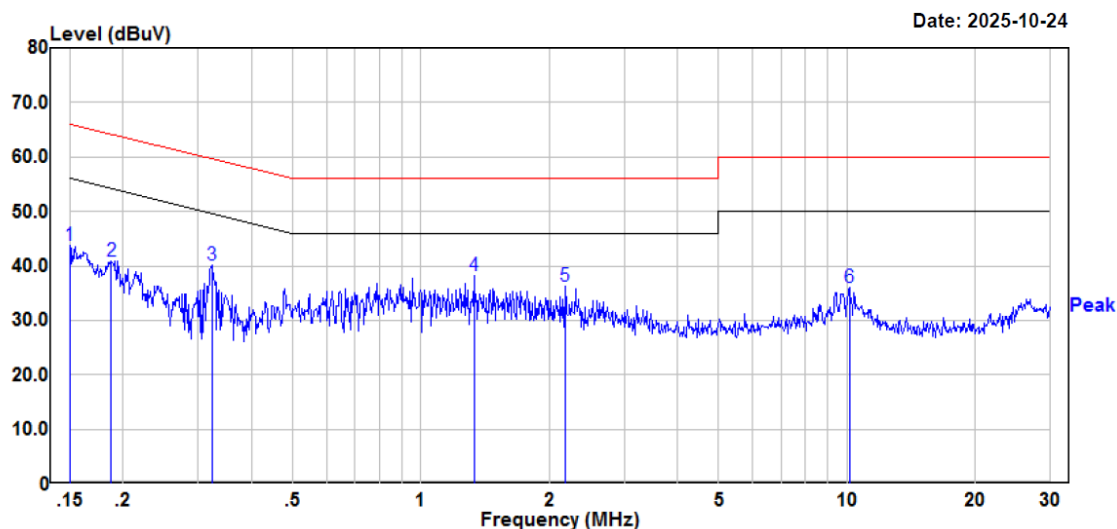
APPENDIX - TEST DATA

CONDUCTED EMISSIONS**Environmental Conditions & Test Information**

Test Date:	2025-10-24
Temperature:	22.2 °C
Relative Humidity:	54 %
ATM Pressure:	102.8 kPa
Test Result:	Pass
Test Engineer:	Jack He

EUT operation mode: Transmitting in 802.11ac20 mode 5745MHz (maximum output power)

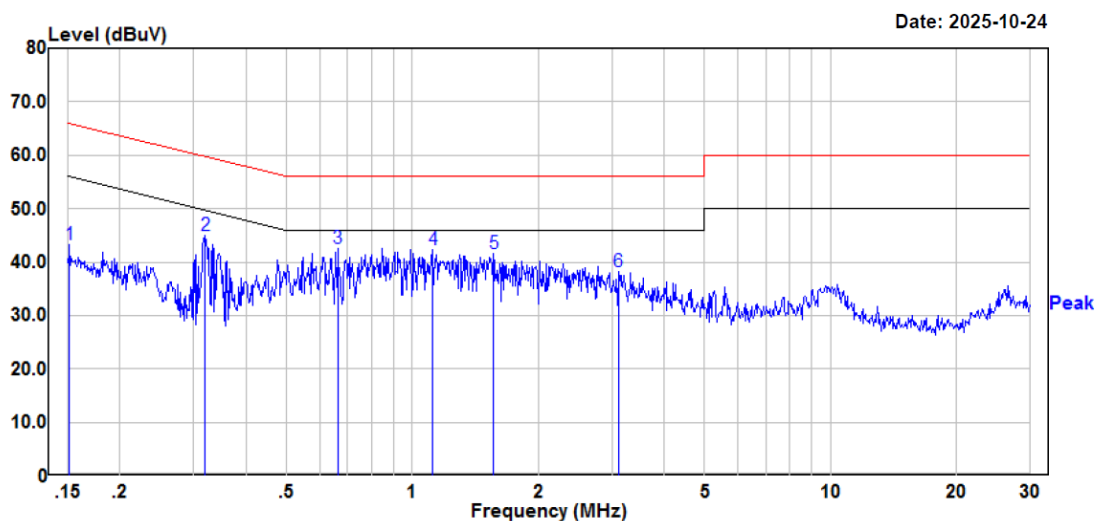
AC 120V/60 Hz, Line



Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSB250928004
Model : MC Gateway
Phase : L
Voltage : 120V/60Hz
Mode : 5G WIFI
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature : 22.2℃
Humidity : 54%
Atmospheric pressure: 102.8kPa
Test Engineer : Jack He

	Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBUV	dB	dBUV	dBUV	dB
1	0.150	23.44	20.41	43.85	66.00	-22.15 Peak
2	0.188	20.33	20.47	40.80	64.14	-23.34 Peak
3	0.323	19.78	20.36	40.14	59.62	-19.48 Peak
4	1.331	18.01	20.22	38.23	56.00	-17.77 Peak
5	2.180	16.07	20.29	36.36	56.00	-19.64 Peak
6	10.121	15.90	20.17	36.07	60.00	-23.93 Peak

AC 120V/60 Hz, Neutral



Site : CE
Condition : limit\FCC PART 15.207
Project No. : RKSB250928004
Model : MC Gateway
Phase : N
Voltage : 120V/60Hz
Mode : 5G WIFI
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature : 22.2°C
Humidity : 54%
Atmospheric pressure: 102.8kPa
Test Engineer : Jack He

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.152	22.79	20.39	43.18	65.92	-22.74	Peak
2	0.320	24.56	20.35	44.91	59.71	-14.80	Peak
3	0.662	22.25	20.23	42.48	56.00	-13.52	Peak
4	1.118	22.04	20.19	42.23	56.00	-13.77	Peak
5	1.561	21.42	20.23	41.65	56.00	-14.35	Peak
6	3.106	17.88	20.24	38.12	56.00	-17.88	Peak

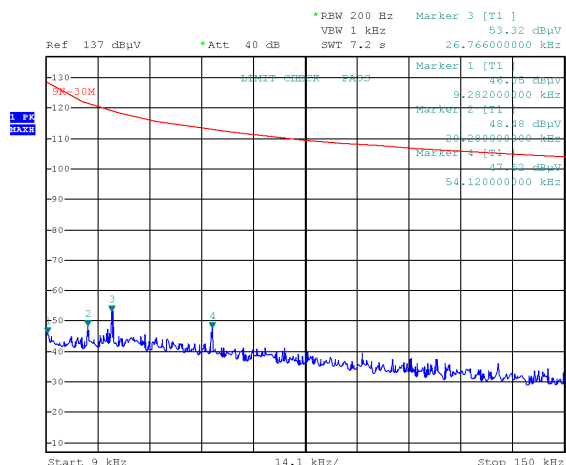
TRANSMITTER UNWANTED EMISSIONS & RESTRICTED FREQUENCY BANDS**Environmental Conditions & Test Information**

Test Item:	SPURIOUS EMISSIONS			
	9kHz – 30MHz	30MHz - 1GHz	1 GHz - 18 GHz	18 GHz - 40 GHz
Test Date:	2025-10-18	2025-10-25	2025-11-13 to 2025-11-25	2025-10-15
Temperature:	23.4℃	23.7℃	17.8-20.6℃	25.1 ℃
Relative Humidity:	45 %	54%	45-52%	49 %
ATM Pressure:	101.1 kPa	102.8 kPa	102.4-102.9 kPa	101.5 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Scarf Yang	Scarf Yang	Destine Hu	Hugh Wu

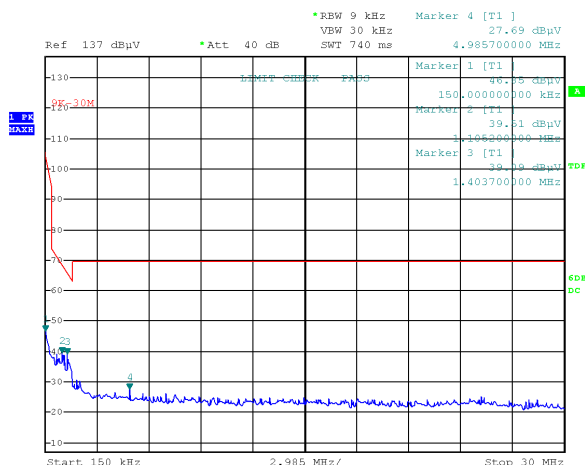
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

**9 kHz-30 MHz: Transmitting in 802.11ac20 mode 5745MHz (maximum output power)
Parallel(worst case)**

9kHz-150kHz



150kHz-30MHz



Project No.RKSB250928004
Date: 18.OCT.2025 10:31:45

Tester:Scarfe Yang

Project No.RKSB250928004
Date: 18.OCT.2025 10:45:32

Tester:Scarfe Yang

9kHz-150kHz

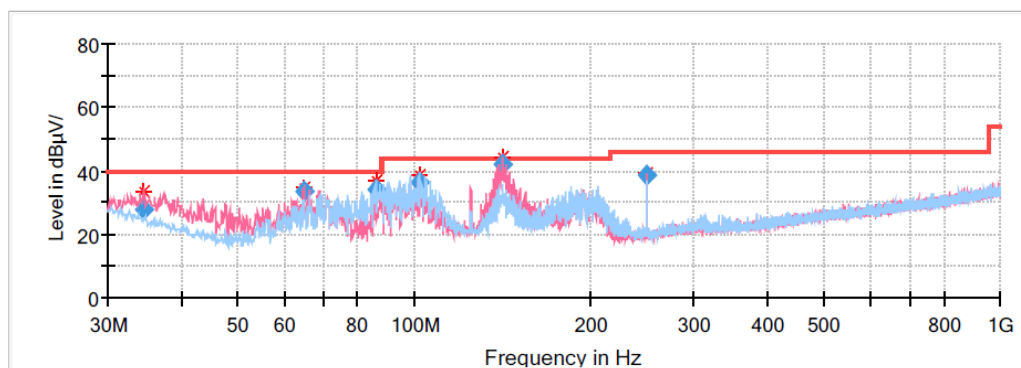
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.009282	46.05	PK	-0.37	128.25	82.20
0.020280	48.48	PK	-0.56	121.46	72.98
0.026766	53.32	PK	-0.59	119.05	65.73
0.054120	47.62	PK	-4.29	112.94	65.32

150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.150000	46.85	PK	-11.34	104.08	57.23
1.105200	39.51	PK	-27.96	66.74	27.23
1.403700	39.09	PK	-28.94	64.66	25.57
4.985700	27.69	PK	-32.06	69.54	41.85

30MHz-1GHz: Transmitting in 802.11ac20 mode 5745MHz (maximum output power)**Common Information**

Project No: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 23.7°C
Humidity: 54%
Barometric Pressure: 102.8kPa
Test Engineer: Scarf Yang
Test Date: 2025/10/25

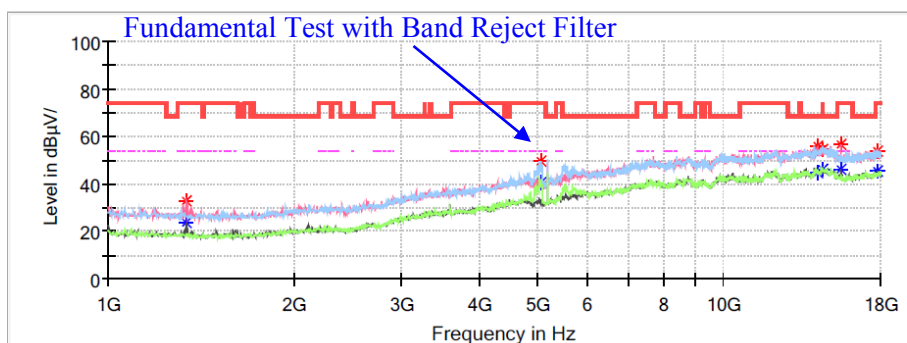
**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
34.607500	27.79	40.00	12.21	V	-7.0
64.798750	33.33	40.00	6.67	V	-16.9
86.017500	33.93	40.00	6.07	H	-17.0
101.901250	36.31	43.50	7.19	H	-14.0
141.186250	41.84	43.50	1.66	V	-11.3
249.947500	38.43	46.00	7.57	V	-12.2

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

Project No.: RKSB250928004
 EUT Model: MC Gateway
 Test Mode: 5G WIFI 802.11a mode Low Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.5℃
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/13

Full Spectrum

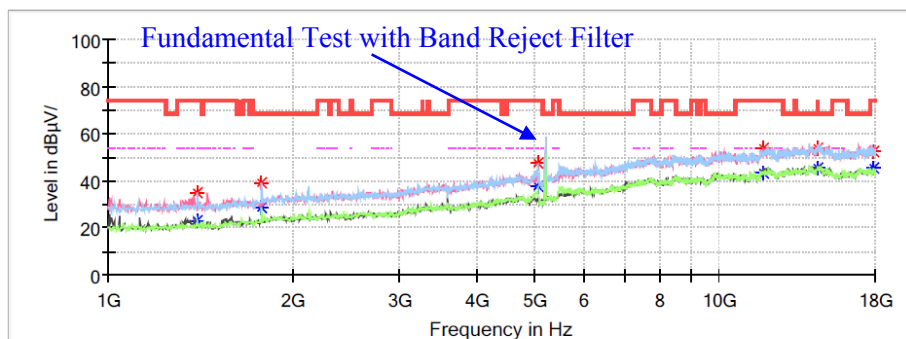
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1340.000000	---	23.47	54.00	30.53	V	-14.0
1340.000000	32.74	---	74.00	41.26	V	-14.0
5052.800000	---	40.72	54.00	13.28	H	-2.8
5052.800000	49.94	---	74.00	24.06	H	-2.8
14198.800000	56.09	---	68.20	12.11	H	11.4
14198.800000	---	44.95	---	---	H	11.4
14491.200000	54.70	---	74.00	19.30	H	12.0
14491.200000	---	46.37	54.00	7.63	H	12.0
15538.400000	56.71	---	74.00	17.29	V	8.8
15538.400000	---	46.42	54.00	7.58	V	8.8
17816.400000	53.71	---	74.00	20.29	V	11.3
17816.400000	---	45.17	54.00	8.83	V	11.3

Middle Channel: 5200MHz**Common Information**

Project No.: RKSB250928004
 EUT Model: MC Gateway
 Test Mode: 5G WIFI 802.11a mode Middle Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.5℃
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/13

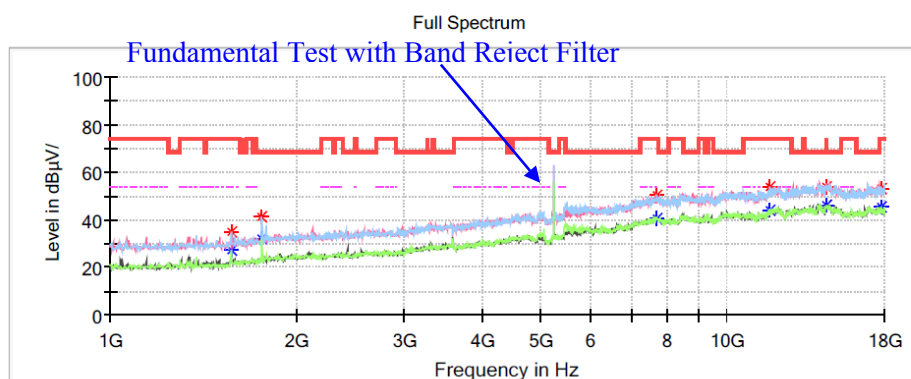
Full Spectrum

**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)
1401.200000	---	23.35	54.00	30.65	H	-13.8
1401.200000	35.03	---	74.00	38.97	H	-13.8
1785.400000	---	28.64	---	---	H	-11.5
1785.400000	39.17	---	68.20	29.03	H	-11.5
5039.200000	---	37.42	54.00	16.58	H	-2.8
5039.200000	47.58	---	74.00	26.42	H	-2.8
11812.000000	---	43.27	54.00	10.73	V	8.7
11812.000000	54.16	---	74.00	19.84	V	8.7
14498.000000	53.60	---	74.00	20.40	V	12.0
14498.000000	---	45.60	54.00	8.40	V	12.0
17864.000000	52.18	---	74.00	21.82	H	11.4
17864.000000	---	45.45	54.00	8.55	H	11.4

High Channel: 5240MHz**Common Information**

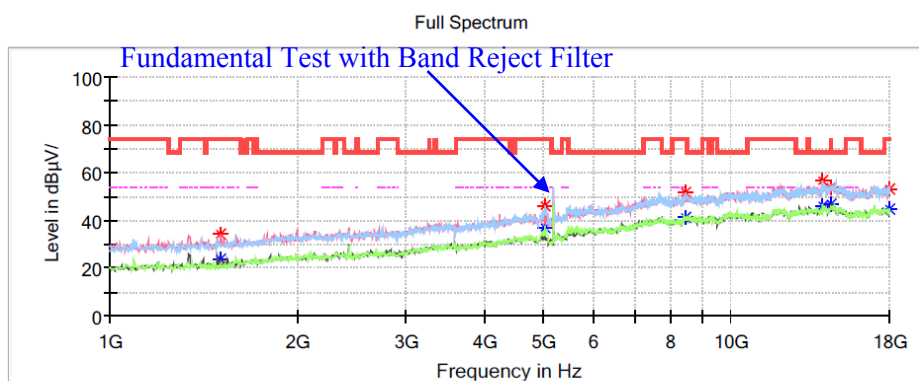
Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11a mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5℃
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1571.200000	---	27.46	54.00	26.54	H	-12.9
1571.200000	35.07	---	74.00	38.93	H	-12.9
1761.600000	---	32.28	---	---	H	-11.6
1761.600000	41.30	---	68.20	26.90	H	-11.6
7701.400000	---	40.78	54.00	13.22	V	3.1
7701.400000	50.54	---	74.00	23.46	V	3.1
11703.200000	---	44.11	54.00	9.89	V	8.5
11703.200000	54.04	---	74.00	19.96	V	8.5
14494.600000	---	46.08	54.00	7.92	V	12.0
14494.600000	54.06	---	74.00	19.94	V	12.0
17738.200000	---	45.44	54.00	8.56	H	11.1
17738.200000	53.04	---	74.00	20.96	H	11.1

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

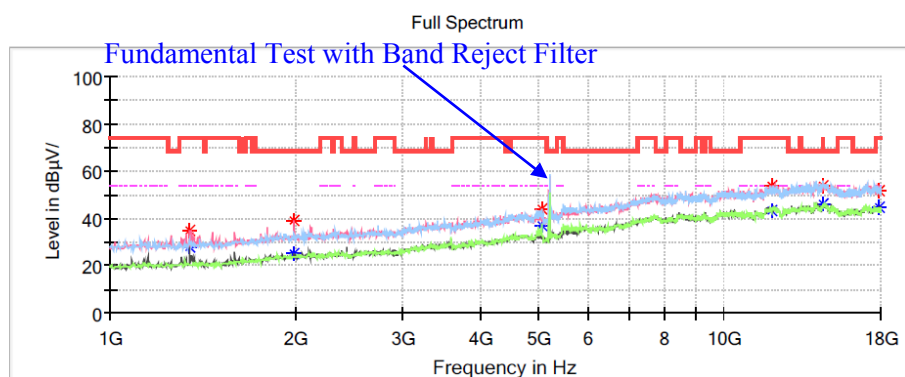
Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ac20 mode Low Channel
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

**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)
1510.000000	---	23.95	54.00	30.05	V	-13.4
1510.000000	34.46	---	74.00	39.54	V	-13.4
5015.400000	---	36.75	54.00	17.25	H	-2.9
5015.400000	46.49	---	74.00	27.51	H	-2.9
8425.600000	---	41.07	54.00	12.93	V	4.5
8425.600000	51.48	---	74.00	22.52	V	4.5
14049.200000	56.53	---	68.20	11.67	H	11.2
14049.200000	---	45.95	---	---	H	11.2
14477.600000	53.92	---	74.00	20.08	V	11.9
14477.600000	---	46.58	54.00	7.42	V	11.9
17989.800000	52.92	---	74.00	21.08	V	11.7
17989.800000	---	44.94	54.00	9.06	V	11.7

Middle Channel: 5200MHz**Common Information**

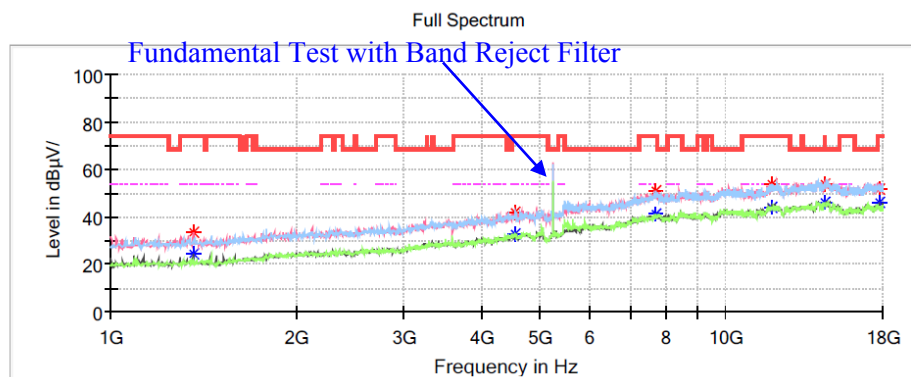
Project No.: RKSB250928004
 EUT Model: MC Gateway
 Test Mode: 5G WIFI 802.11ac20 mode Middle Channel
 Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.5°C
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/13

**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)
1346.800000	---	27.95	54.00	26.05	V	-14.0
1346.800000	35.03	---	74.00	38.97	V	-14.0
1992.800000	---	24.85	---	---	V	-10.1
1992.800000	39.11	---	68.20	29.09	V	-10.1
5035.800000	44.02	---	74.00	29.98	H	-2.8
5035.800000	---	37.37	54.00	16.63	H	-2.8
11968.400000	---	43.63	54.00	10.37	V	9.0
11968.400000	53.67	---	74.00	20.33	V	9.0
14494.600000	53.78	---	74.00	20.22	H	12.0
14494.600000	---	46.20	54.00	7.80	H	12.0
17853.800000	51.60	---	74.00	22.40	V	11.4
17853.800000	---	45.00	54.00	9.00	V	11.4

High Channel: 5240MHz**Common Information**

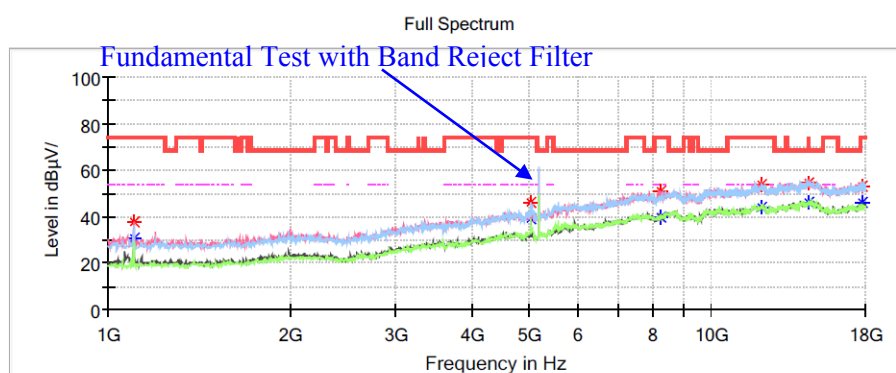
Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ac20 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

**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)
1360.400000	---	24.34	54.00	29.66	V	-13.9
1360.400000	33.25	---	74.00	40.75	V	-13.9
4553.000000	---	32.59	54.00	21.41	H	-4.1
4553.000000	42.30	---	74.00	31.70	H	-4.1
7698.000000	---	40.97	54.00	13.03	V	3.1
7698.000000	51.00	---	74.00	23.00	V	3.1
11869.800000	---	44.36	54.00	9.64	V	8.8
11869.800000	53.85	---	74.00	20.15	V	8.8
14477.600000	53.60	---	74.00	20.40	H	11.9
14477.600000	---	45.84	54.00	8.16	H	11.9
17738.200000	51.88	---	74.00	22.12	H	11.1
17738.200000	---	46.08	54.00	7.92	H	11.1

802.11ax20 RU26 Mode:**Channel: 5180MHz****Common Information**

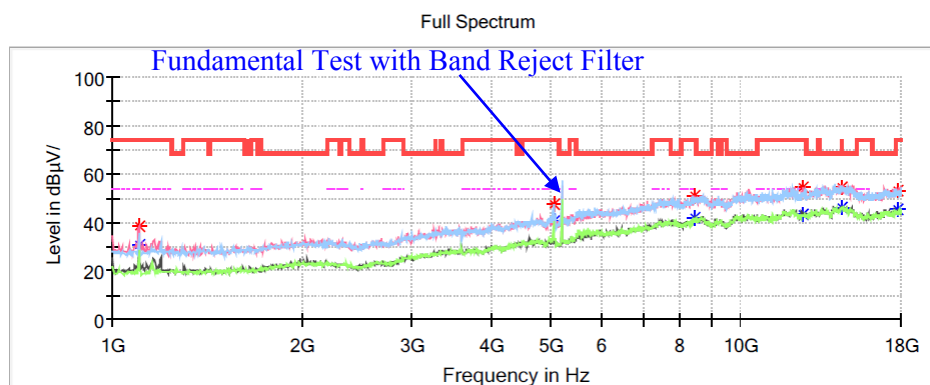
Project No.: RKSB250928004
 EUT Model: MC Gateway
 Test Mode: 5G WIFI 802.11ax20-RU26 mode Low Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.5°C
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/13

**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)
1102.000000	37.73	---	74.00	36.27	V	-14.8
1102.000000	---	30.50	54.00	23.50	V	-14.8
5012.000000	46.05	---	74.00	27.95	H	-2.9
5012.000000	---	39.02	54.00	14.98	H	-2.9
8218.200000	---	40.21	54.00	13.79	H	3.9
8218.200000	50.87	---	74.00	23.13	H	3.9
12138.400000	54.19	---	74.00	19.81	H	9.0
12138.400000	---	44.17	54.00	9.83	H	9.0
14494.600000	---	46.40	54.00	7.60	H	12.0
14494.600000	54.60	---	74.00	19.40	H	12.0
17772.200000	---	45.87	54.00	8.13	V	11.2
17772.200000	53.18	---	74.00	20.82	V	11.2

Channel: 5200MHz**Common Information**

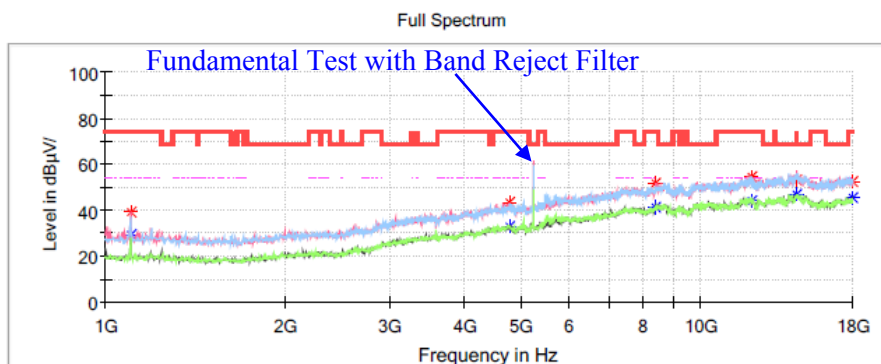
Project No.: RKSB250928004
 EUT Model: MC Gateway
 Test Mode: 5G WIFI 802.11ax20-RU26 mode Middle Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.5°C
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/13

**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)
1102.000000	---	30.82	54.00	23.18	V	-14.8
1102.000000	38.47	---	74.00	35.53	V	-14.8
5032.400000	---	40.40	54.00	13.60	H	-2.8
5032.400000	47.59	---	74.00	26.41	H	-2.8
8439.200000	---	41.77	54.00	12.23	V	4.5
8439.200000	51.13	---	74.00	22.87	V	4.5
12546.400000	---	43.28	54.00	10.72	V	8.8
12546.400000	54.42	---	74.00	19.58	V	8.8
14498.000000	54.54	---	74.00	19.46	H	12.0
14498.000000	---	46.14	54.00	7.86	H	12.0
17809.600000	53.03	---	74.00	20.97	V	11.3
17809.600000	---	45.32	54.00	8.68	V	11.3

Channel: 5240MHz**Common Information**

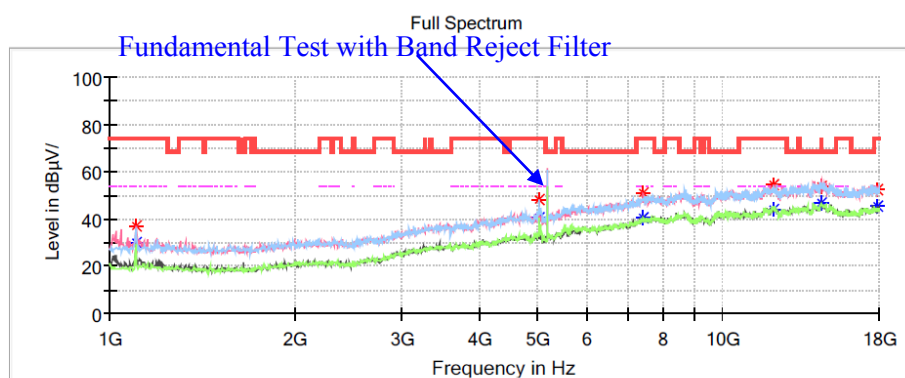
Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU26 mode High Channel
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
1102.000000	38.99	---	74.00	35.01	V	-14.8
1102.000000	---	29.06	54.00	24.94	V	-14.8
4777.400000	---	32.53	54.00	21.47	V	-3.5
4777.400000	43.04	---	74.00	30.96	V	-3.5
8405.200000	51.46	---	74.00	22.54	H	4.4
8405.200000	---	41.55	54.00	12.45	H	4.4
12179.200000	54.66	---	74.00	19.34	H	9.0
12179.200000	---	44.04	54.00	9.96	H	9.0
14491.200000	---	46.58	54.00	7.42	V	12.0
14491.200000	53.38	---	74.00	20.62	V	12.0
17989.800000	---	45.41	54.00	8.59	V	11.7
17989.800000	52.14	---	74.00	21.86	V	11.7

802.11ax20 RU52Mode:**Channel: 5180MHz****Common Information**

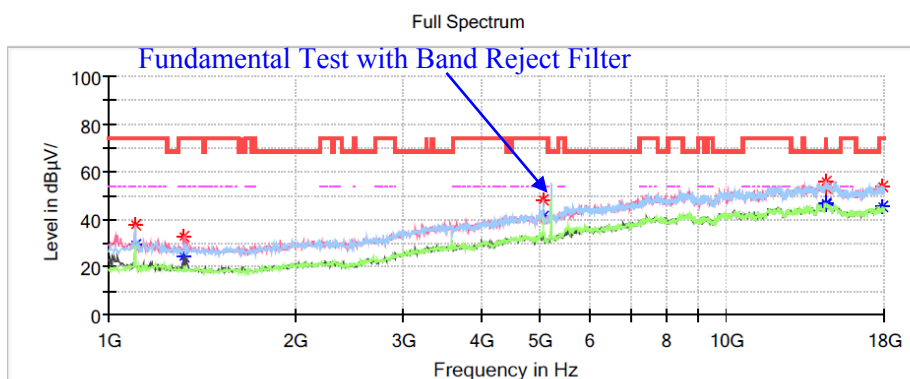
Project No.: RKSB250928004
 EUT Model: MC Gateway
 Test Mode: 5G WIFI 802.11ax20-RU52 mode Low Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.5°C
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/13

**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)
1102.000000	---	30.18	54.00	23.82	V	-14.8
1102.000000	36.72	---	74.00	37.28	V	-14.8
5015.400000	---	40.36	54.00	13.64	H	-2.9
5015.400000	48.43	---	74.00	25.57	H	-2.9
7412.400000	---	40.33	54.00	13.67	V	2.7
7412.400000	50.73	---	74.00	23.27	V	2.7
12084.000000	---	43.95	54.00	10.05	V	9.0
12084.000000	54.20	---	74.00	19.80	V	9.0
14494.600000	53.73	---	74.00	20.27	H	12.0
14494.600000	---	46.94	54.00	7.06	H	12.0
17928.600000	52.48	---	74.00	21.52	V	11.6
17928.600000	---	45.12	54.00	8.88	V	11.6

Channel: 5200MHz**Common Information**

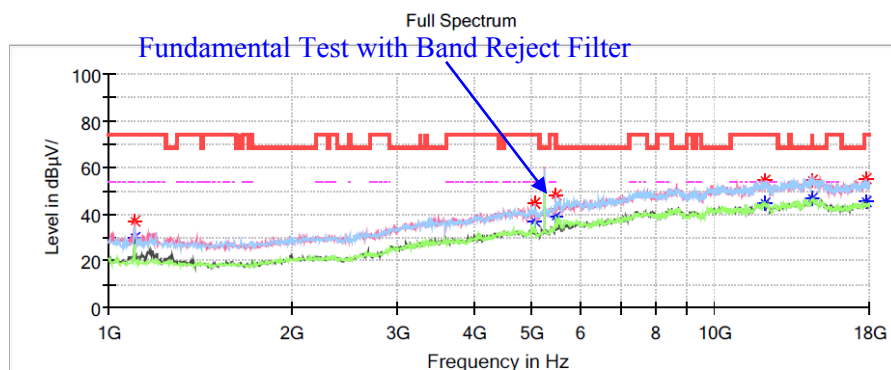
Project No.: RKS250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU52 mode Middle Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5℃
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

**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)
1102.000000	---	29.29	54.00	24.71	V	-14.8
1102.000000	37.58	---	74.00	36.42	V	-14.8
1323.000000	---	24.81	54.00	29.19	V	-14.1
1323.000000	32.73	---	74.00	41.27	V	-14.1
5035.800000	48.30	---	74.00	25.70	H	-2.8
5035.800000	---	40.93	54.00	13.07	H	-2.8
14477.600000	56.12	---	74.00	17.88	H	11.9
14477.600000	---	46.61	54.00	7.39	H	11.9
14532.000000	---	46.15	---	---	V	11.9
14532.000000	53.05	---	68.20	15.15	V	11.9
17911.600000	---	45.50	54.00	8.50	H	11.5
17911.600000	53.67	---	74.00	20.33	H	11.5

Channel: 5240MHz**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU52 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

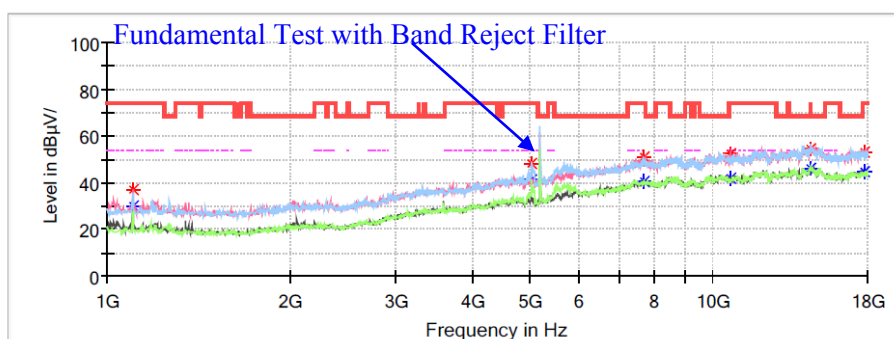
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1102.000000	---	29.76	54.00	24.24	V	-14.8
1102.000000	37.38	---	74.00	36.62	V	-14.8
5035.800000	---	37.17	54.00	16.83	H	-2.8
5035.800000	44.45	---	74.00	29.55	H	-2.8
5474.400000	---	38.90	---	---	H	-1.8
5474.400000	47.99	---	68.20	20.21	H	-1.8
12084.000000	---	44.45	54.00	9.55	V	9.0
12084.000000	54.85	---	74.00	19.15	V	9.0
14484.400000	54.47	---	74.00	19.53	H	11.9
14484.400000	---	46.68	54.00	7.32	H	11.9
17809.600000	55.01	---	74.00	18.99	V	11.3
17809.600000	---	45.27	54.00	8.73	V	11.3

802.11ax20 RU106 Mode:**Channel: 5180MHz****Common Information**

Project No.: RKSB250928004
 EUT Model: MC Gateway
 Test Mode: 5G WIFI 802.11ax20-RU106 mode Low Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.5°C
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/13

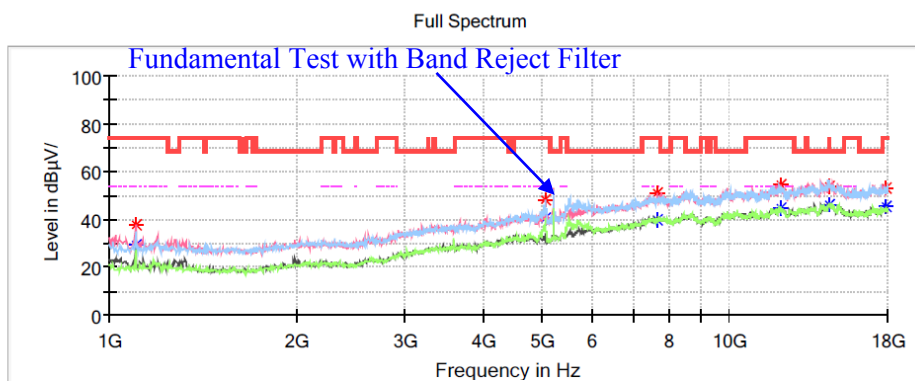
Full Spectrum

**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)
1102.000000	---	29.80	54.00	24.20	V	-14.8
1102.000000	37.41	---	74.00	36.59	V	-14.8
5022.200000	---	41.13	54.00	12.87	H	-2.8
5022.200000	48.35	---	74.00	25.65	H	-2.8
7711.600000	---	40.85	54.00	13.15	H	3.1
7711.600000	50.74	---	74.00	23.26	H	3.1
10659.400000	---	42.11	54.00	11.89	V	6.7
10659.400000	52.62	---	74.00	21.38	V	6.7
14494.600000	54.38	---	74.00	19.62	H	12.0
14494.600000	---	46.37	54.00	7.63	H	12.0
17796.000000	53.31	---	74.00	20.69	V	11.2
17796.000000	---	44.89	54.00	9.11	V	11.2

Channel: 5200MHz**Common Information**

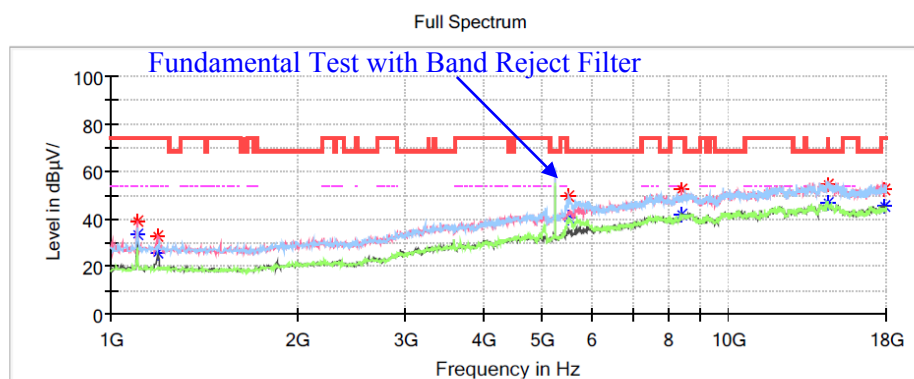
Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU106 mode Middle Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

**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)
1102.000000	37.85	---	74.00	36.15	V	-14.8
1102.000000	---	29.53	54.00	24.47	V	-14.8
5042.600000	48.02	---	74.00	25.98	H	-2.8
5042.600000	---	40.60	54.00	13.40	H	-2.8
7643.600000	---	40.19	54.00	13.81	V	3.1
7643.600000	51.16	---	74.00	22.84	V	3.1
12104.400000	54.40	---	74.00	19.60	V	9.0
12104.400000	---	44.43	54.00	9.57	V	9.0
14481.000000	54.19	---	74.00	19.81	H	11.9
14481.000000	---	46.15	54.00	7.85	H	11.9
17932.000000	---	45.80	54.00	8.20	V	11.6
17932.000000	53.17	---	74.00	20.83	V	11.6

Channel: 5240MHz**Common Information**

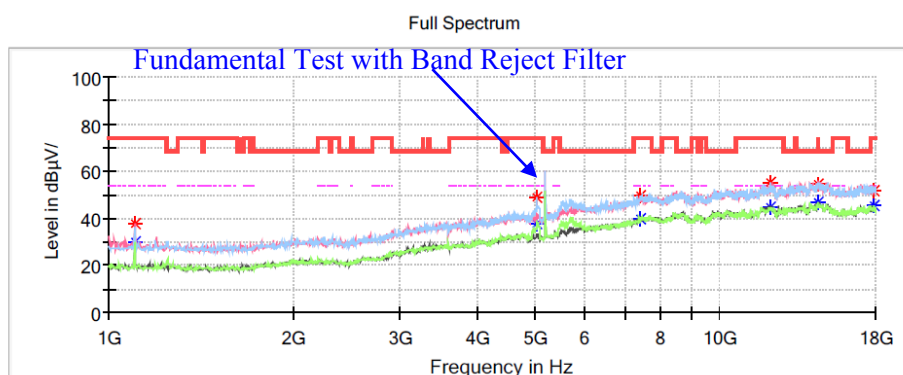
Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU106 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

**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)
1102.000000	38.94	---	74.00	35.06	V	-14.8
1102.000000	---	33.61	54.00	20.39	V	-14.8
1190.400000	---	25.85	54.00	28.15	V	-14.5
1190.400000	32.74	---	74.00	41.26	V	-14.5
5522.000000	---	40.29	---	---	H	-1.7
5522.000000	49.73	---	68.20	18.47	H	-1.7
8408.600000	---	41.91	54.00	12.09	V	4.4
8408.600000	52.11	---	74.00	21.89	V	4.4
14481.000000	---	46.80	54.00	7.20	H	11.9
14481.000000	54.24	---	74.00	19.76	H	11.9
17918.400000	52.15	---	74.00	21.85	V	11.5
17918.400000	---	45.40	54.00	8.60	V	11.5

802.11ax20 RU242 Mode:**Channel: 5180MHz****Common Information**

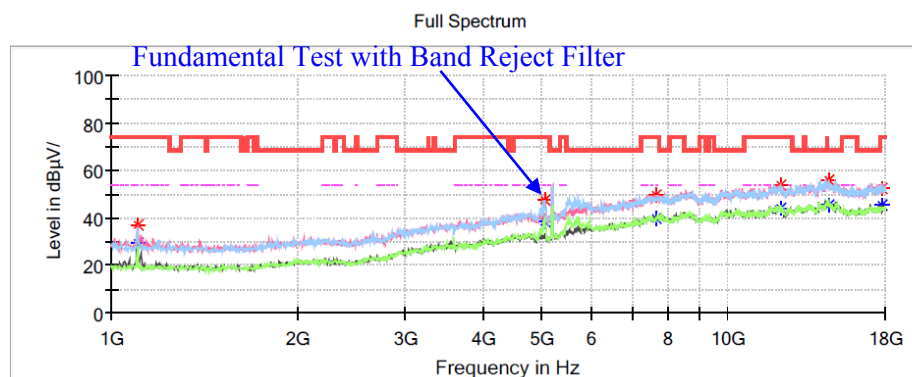
Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU242 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

**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)
1102.000000	37.49	---	74.00	36.51	H	-14.8
1102.000000	---	29.79	54.00	24.21	H	-14.8
5018.800000	48.81	---	74.00	25.19	H	-2.9
5018.800000	---	37.73	54.00	16.27	H	-2.9
7432.800000	---	40.06	54.00	13.94	H	2.8
7432.800000	49.95	---	74.00	24.05	H	2.8
12135.000000	54.98	---	74.00	19.02	V	9.0
12135.000000	---	44.46	54.00	9.54	V	9.0
14484.400000	---	46.63	54.00	7.37	V	11.9
14484.400000	54.65	---	74.00	19.35	V	11.9
17840.200000	---	45.13	54.00	8.87	H	11.3
17840.200000	51.98	---	74.00	22.02	H	11.3

Channel: 5200MHz**Common Information**

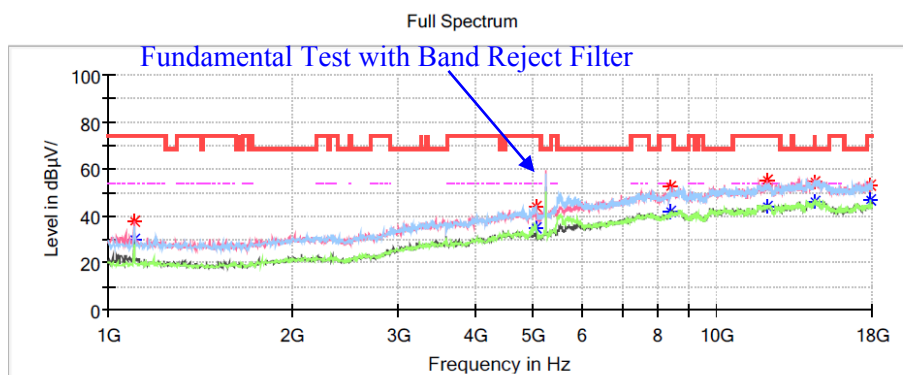
Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU242 mode Middle Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

**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)
1102.000000	---	29.05	54.00	24.95	V	-14.8
1102.000000	37.40	---	74.00	36.60	V	-14.8
5046.000000	---	38.59	54.00	15.41	H	-2.8
5046.000000	47.43	---	74.00	26.57	H	-2.8
7667.400000	---	39.77	54.00	14.23	V	3.1
7667.400000	49.82	---	74.00	24.18	V	3.1
12152.000000	---	44.17	54.00	9.83	V	9.0
12152.000000	54.08	---	74.00	19.92	V	9.0
14545.600000	---	45.35	---	---	H	11.8
14545.600000	55.94	---	68.20	12.26	H	11.8
17768.800000	52.39	---	74.00	21.61	V	11.1
17768.800000	---	45.15	54.00	8.85	V	11.1

Channel: 5240MHz**Common Information**

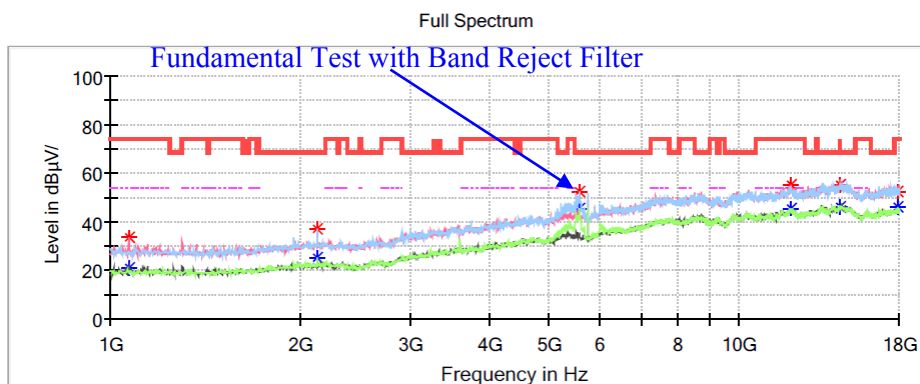
Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU242 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.5℃
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Test Date: 2025/11/13

**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)
1102.000000	---	29.90	54.00	24.10	V	-14.8
1102.000000	37.81	---	74.00	36.19	V	-14.8
5032.400000	---	35.03	54.00	18.97	H	-2.8
5032.400000	44.24	---	74.00	29.76	H	-2.8
8401.800000	---	41.70	54.00	12.30	H	4.4
8401.800000	52.32	---	74.00	21.68	H	4.4
12107.800000	---	44.23	54.00	9.77	V	9.0
12107.800000	55.03	---	74.00	18.97	V	9.0
14487.800000	54.52	---	74.00	19.48	H	11.9
14487.800000	---	46.37	54.00	7.63	H	11.9
17918.400000	53.36	---	74.00	20.64	H	11.5
17918.400000	---	46.79	54.00	7.21	H	11.5

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

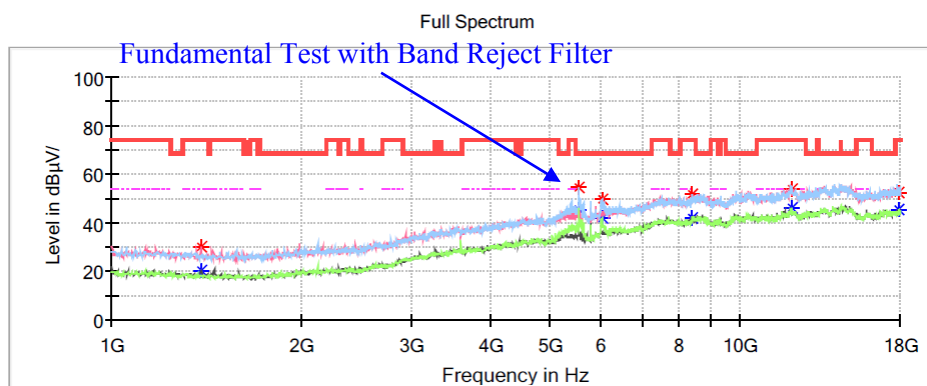
Project No.:	RKSB250928004
EUT Model:	MC Gateway
Test Mode:	5G WIFI 802.11a mode Low Channel
Standard:	FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.6°C
Humidity:	52%
Atmospheric Pressure:	102.6kPa
Test Engineer:	Destine Hu
Test Date:	2025/11/14

**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)
1068.000000	33.44	---	74.00	40.56	V	-15.0
1068.000000	---	20.97	54.00	33.03	V	-15.0
2132.200000	---	25.03	---	---	H	-9.9
2132.200000	37.10	---	68.20	31.10	H	-9.9
5579.800000	52.42	---	68.20	15.78	H	-1.5
5579.800000	---	45.12	---	---	H	-1.5
12073.800000	---	45.79	54.00	8.21	V	9.0
12073.800000	54.90	---	74.00	19.10	V	9.0
14481.000000	---	46.17	54.00	7.83	H	11.9
14481.000000	55.28	---	74.00	18.72	H	11.9
17884.400000	52.62	---	74.00	21.38	V	11.5
17884.400000	---	45.86	54.00	8.14	V	11.5

Middle Channel: 5785MHz**Common Information**

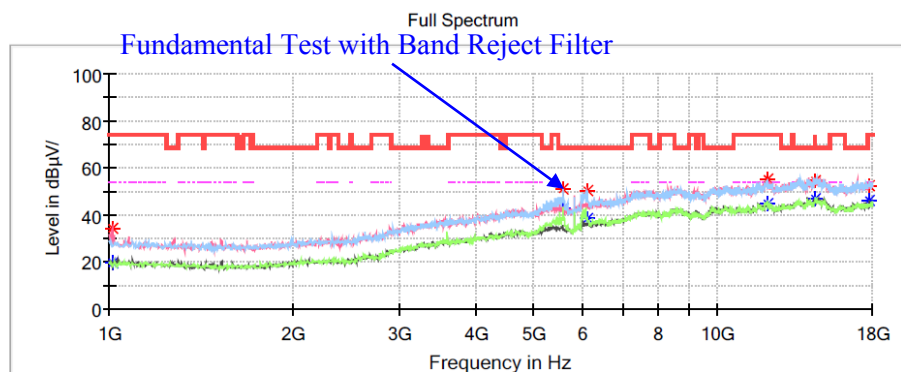
Project No.: RKSB250928004
 EUT Model: MC Gateway
 Test Mode: 5G WIFI 802.11a mode Middle Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.6°C
 Humidity: 52%
 Atmospheric Pressure: 102.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/14

**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)
1387.600000	---	20.00	54.00	34.00	V	-13.8
1387.600000	29.85	---	74.00	44.15	V	-13.8
5542.400000	54.70	---	68.20	13.50	H	-1.6
5542.400000	---	45.78	---	---	H	-1.6
6025.200000	49.68	---	68.20	18.52	H	-0.6
6025.200000	---	41.64	---	---	H	-0.6
8405.200000	51.87	---	74.00	22.13	V	4.4
8405.200000	---	42.21	54.00	11.79	V	4.4
12077.200000	---	45.87	54.00	8.13	H	9.0
12077.200000	53.81	---	74.00	20.19	H	9.0
17918.400000	---	45.80	54.00	8.20	H	11.5
17918.400000	52.74	---	74.00	21.26	H	11.5

High Channel: 5825MHz**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11a mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.6°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/11/14

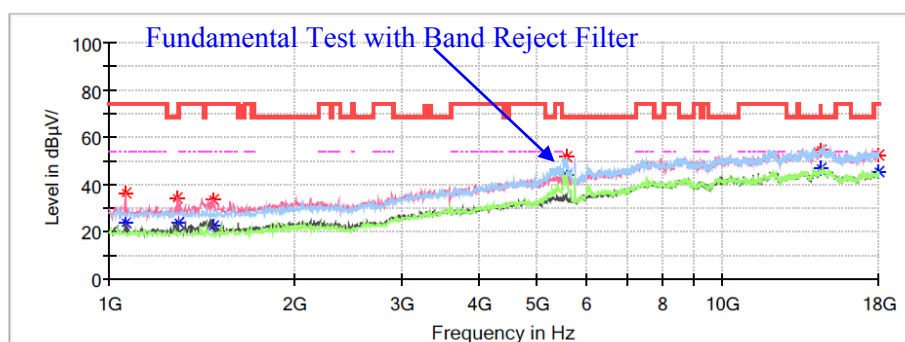
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1010.200000	---	19.41	54.00	34.59	V	-15.2
1010.200000	33.98	---	74.00	40.02	V	-15.2
5586.600000	50.93	---	68.20	17.27	H	-1.5
5586.600000	---	42.35	---	---	H	-1.5
6106.800000	50.46	---	68.20	17.74	H	-0.7
6106.800000	---	38.20	---	---	H	-0.7
12090.800000	55.24	---	74.00	18.76	H	9.0
12090.800000	---	44.88	54.00	9.12	H	9.0
14498.000000	---	46.79	54.00	7.21	V	12.0
14498.000000	54.44	---	74.00	19.56	V	12.0
17813.000000	---	45.92	54.00	8.08	H	11.3
17813.000000	52.72	---	74.00	21.28	H	11.3

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

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ac20 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.6℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/11/14

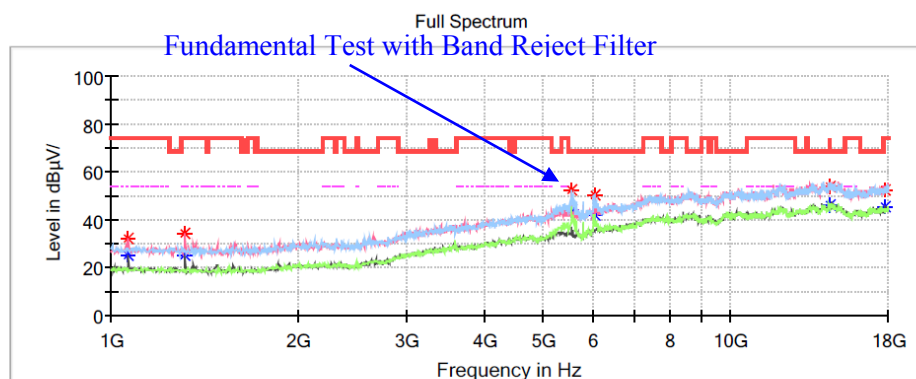
Full Spectrum

**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)
1061.200000	36.65	---	74.00	37.35	V	-15.0
1061.200000	---	23.74	54.00	30.26	V	-15.0
1295.800000	34.38	---	68.20	33.82	V	-14.2
1295.800000	---	23.50	---	---	V	-14.2
1479.400000	33.61	---	74.00	40.39	V	-13.5
1479.400000	---	22.63	54.00	31.37	V	-13.5
5576.400000	52.05	---	68.20	16.15	H	-1.5
5576.400000	---	43.86	---	---	H	-1.5
14484.400000	---	46.66	54.00	7.34	V	11.9
14484.400000	54.76	---	74.00	19.24	V	11.9
17962.600000	52.12	---	74.00	21.88	H	11.7
17962.600000	---	45.13	54.00	8.87	H	11.7

Middle Channel: 5785MHz**Common Information**

Project No.: RKSB250928004
 EUT Model: MC Gateway
 Test Mode: 5G WIFI 802.11ac20 mode Middle Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.6°C
 Humidity: 52%
 Atmospheric Pressure: 102.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/14

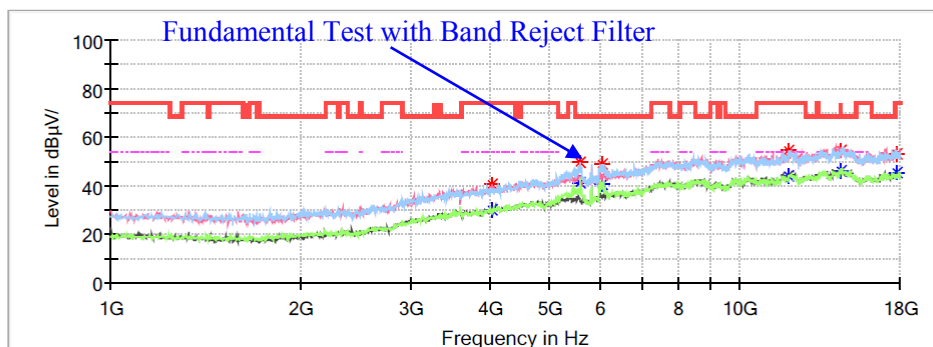
**Critical_Freqs**

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	---	25.14	54.00	28.86	V	-15.0
1064.600000	31.87	---	74.00	42.13	V	-15.0
1316.200000	---	25.15	54.00	28.85	V	-14.1
1316.200000	34.59	---	74.00	39.41	V	-14.1
5549.200000	---	44.31	---	---	H	-1.6
5549.200000	52.17	---	68.20	16.03	H	-1.6
6025.200000	---	41.85	---	---	H	-0.6
6025.200000	50.14	---	68.20	18.06	H	-0.6
14491.200000	53.52	---	74.00	20.48	V	12.0
14491.200000	---	46.19	54.00	7.81	V	12.0
17830.000000	52.70	---	74.00	21.30	H	11.3
17830.000000	---	45.19	54.00	8.81	H	11.3

High Channel: 5825MHz**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ac20 mode High Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.6°C
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/11/14

Full Spectrum

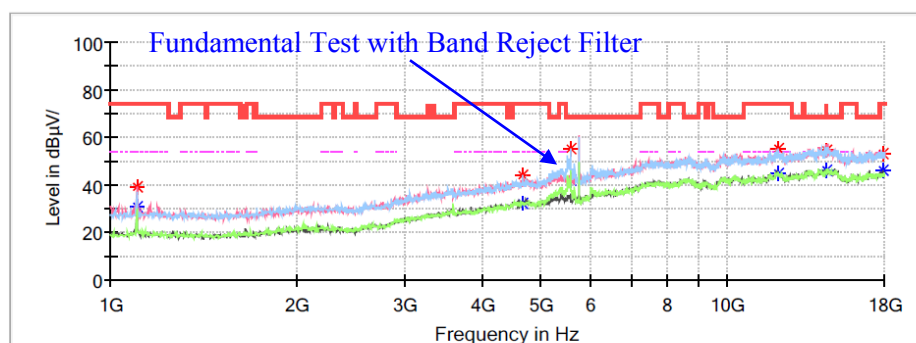
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
4029.400000	---	30.11	54.00	23.89	V	-4.9
4029.400000	40.41	---	74.00	33.59	V	-4.9
5576.400000	49.34	---	68.20	18.86	H	-1.5
5576.400000	---	41.44	---	---	H	-1.5
6055.800000	49.26	---	68.20	18.94	H	-0.6
6055.800000	---	40.40	---	---	H	-0.6
11982.000000	---	43.92	54.00	10.08	V	9.0
11982.000000	54.62	---	74.00	19.38	V	9.0
14498.000000	54.51	---	74.00	19.49	V	12.0
14498.000000	---	46.15	54.00	7.85	V	12.0
17782.400000	---	45.29	54.00	8.71	H	11.2
17782.400000	53.20	---	74.00	20.80	H	11.2

802.11ax20 RU26 Mode:**Channel: 5745MHz****Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU26 mode Low Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.6℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/11/14

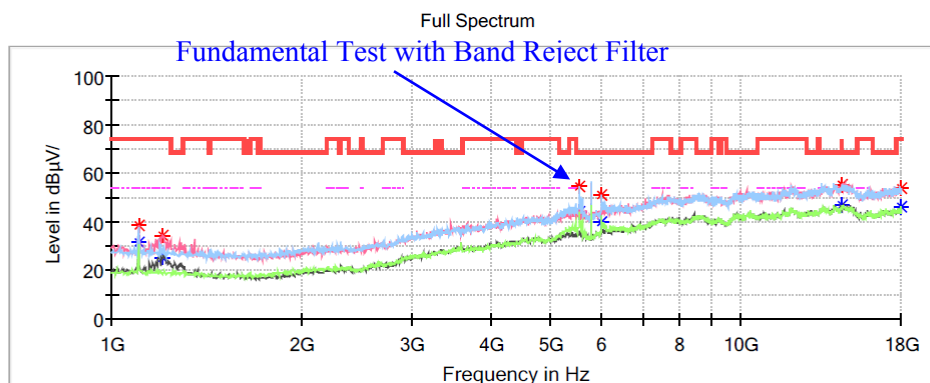
Full Spectrum

**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)
1102.000000	---	31.08	54.00	22.92	V	-14.8
1102.000000	39.33	---	74.00	34.67	V	-14.8
4658.400000	---	32.35	54.00	21.65	H	-3.8
4658.400000	44.17	---	74.00	29.83	H	-3.8
5579.800000	---	41.85	---	---	H	-1.5
5579.800000	55.14	---	68.20	13.06	H	-1.5
12097.600000	---	44.51	54.00	9.49	V	9.0
12097.600000	54.92	---	74.00	19.08	V	9.0
14494.600000	---	46.04	54.00	7.96	V	12.0
14494.600000	54.87	---	74.00	19.13	V	12.0
17857.200000	53.01	---	74.00	20.99	V	11.4
17857.200000	---	45.91	54.00	8.09	V	11.4

Channel: 5785MHz**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU26 mode Middle Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.6℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/11/14

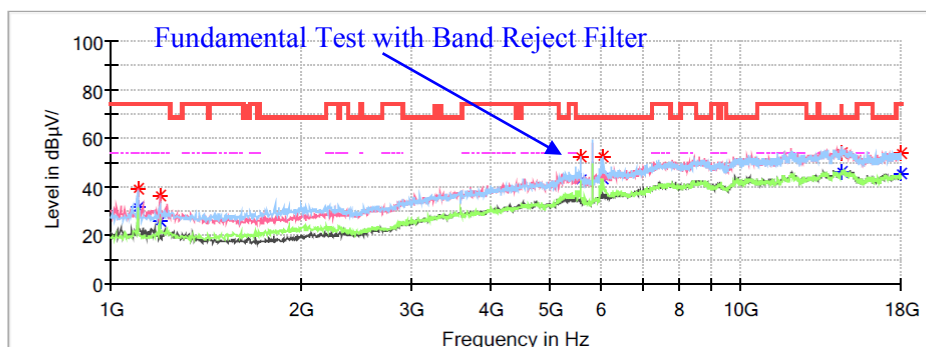
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1102.000000	38.30	---	74.00	35.70	V	-14.8
1102.000000	---	31.19	54.00	22.81	V	-14.8
1207.400000	---	25.35	54.00	28.65	V	-14.5
1207.400000	33.99	---	74.00	40.01	V	-14.5
5539.000000	---	44.03	---	---	H	-1.6
5539.000000	54.58	---	68.20	13.62	H	-1.6
6015.000000	---	40.06	---	---	H	-0.6
6015.000000	51.22	---	68.20	16.98	H	-0.6
14494.600000	54.92	---	74.00	19.08	H	12.0
14494.600000	---	47.09	54.00	6.91	H	12.0
17996.600000	---	45.96	54.00	8.04	H	11.8
17996.600000	53.73	---	74.00	20.27	H	11.8

High Channel: 5825MHz**Common Information**

Project No.: RKSB250928004
 EUT Model: MC Gateway
 Test Mode: 5G WIFI 802.11ax20-RU26 mode High Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.6℃
 Humidity: 52%
 Atmospheric Pressure: 102.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/14

Full Spectrum

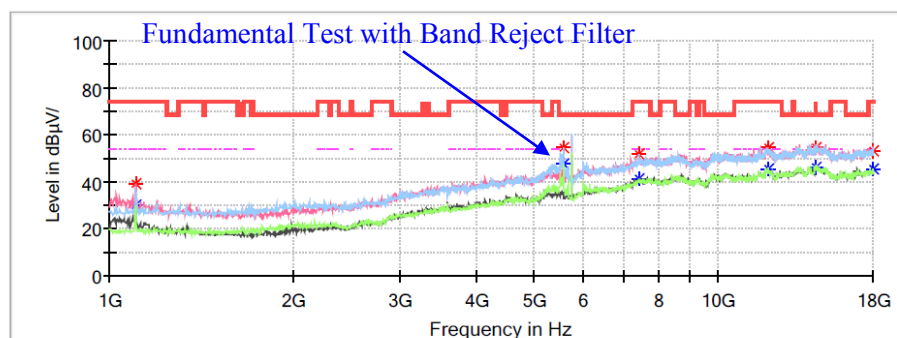
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1102.000000	38.84	---	74.00	35.16	V	-14.8
1102.000000	---	31.51	54.00	22.49	V	-14.8
1193.800000	36.32	---	74.00	37.68	V	-14.5
1193.800000	---	25.84	54.00	28.16	V	-14.5
5576.400000	52.64	---	68.20	15.56	H	-1.5
5576.400000	---	42.40	---	---	H	-1.5
6055.800000	52.47	---	68.20	15.73	H	-0.6
6055.800000	---	43.32	---	---	H	-0.6
14494.600000	54.17	---	74.00	19.83	H	12.0
14494.600000	---	46.02	54.00	7.98	H	12.0
17949.000000	---	45.18	54.00	8.82	V	11.6
17949.000000	54.00	---	74.00	20.00	V	11.6

802.11ax20 RU52 Mode:**Channel: 5745MHz****Common Information**

Project No.: RKSB250928004
 EUT Model: MC Gateway
 Test Mode: 5G WIFI 802.11ax20-RU52 mode Low Channel
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 20.6°C
 Humidity: 52%
 Atmospheric Pressure: 102.6kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/14

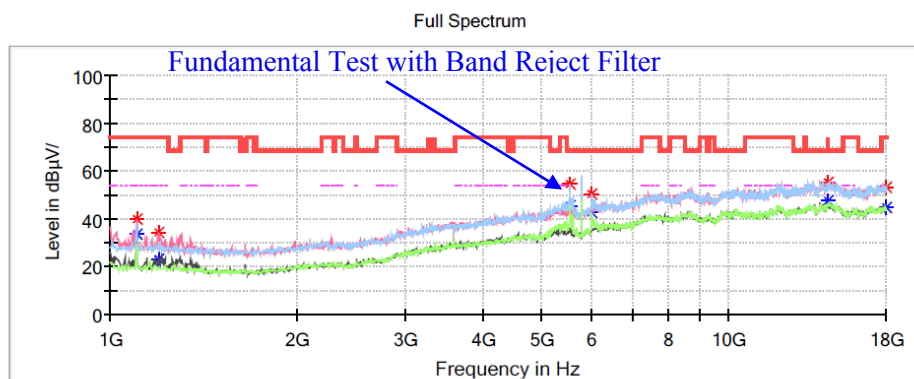
Full Spectrum

**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)
1102.000000	38.88	---	74.00	35.12	H	-14.8
1102.000000	---	30.41	54.00	23.59	H	-14.8
5579.800000	54.63	---	68.20	13.57	H	-1.5
5579.800000	---	47.47	---	---	H	-1.5
7412.400000	51.44	---	74.00	22.56	H	2.7
7412.400000	---	40.98	54.00	13.02	H	2.7
12124.800000	---	45.45	54.00	8.55	V	9.0
12124.800000	54.53	---	74.00	19.47	V	9.0
14494.600000	54.56	---	74.00	19.44	H	12.0
14494.600000	---	46.17	54.00	7.83	H	12.0
17976.200000	---	45.75	54.00	8.25	V	11.7
17976.200000	53.01	---	74.00	20.99	V	11.7

Channel: 5785MHz**Common Information**

Project No.: RKSB250928004
EUT Model: MC Gateway
Test Mode: 5G WIFI 802.11ax20-RU52 mode Middle Channel
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 20.6℃
Humidity: 52%
Atmospheric Pressure: 102.6kPa
Test Engineer: Destine Hu
Test Date: 2025/11/14

**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)
1102.000000	---	33.87	54.00	20.13	V	-14.8
1102.000000	39.91	---	74.00	34.09	V	-14.8
1193.800000	---	23.41	54.00	30.59	V	-14.5
1193.800000	34.13	---	74.00	39.87	V	-14.5
5542.400000	---	45.22	---	---	H	-1.6
5542.400000	54.71	---	68.20	13.49	H	-1.6
6021.800000	---	42.64	---	---	H	-0.6
6021.800000	50.52	---	68.20	17.68	H	-0.6
14498.000000	55.27	---	74.00	18.73	V	12.0
14498.000000	---	47.29	54.00	6.71	V	12.0
17969.400000	53.31	---	74.00	20.69	V	11.7
17969.400000	---	45.07	54.00	8.93	V	11.7