

FCC PART 15.407

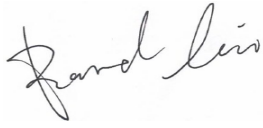
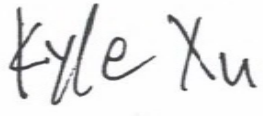
TEST REPORT

For

Tersus GNSS Inc.

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

FCC ID: 2AMDJ-GC30

Report Type: Original Report	Product Name: Guidance Controller
Report Number:	<u>RSHA250211002-00C</u>
Report Date:	<u>2025-09-26</u>
Reviewed By:	<u>Bard Liu</u> 
Approved By:	<u>Kyle Xu</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	RSHA250211002-00C	R1V1	2025-09-26	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Tersus GNSS Inc.	
Tested Model:	GC30	
Product Name:	Guidance Controller	
Power Supply:	DC 12 V	
Maximum Average Output Power	5G Wi-Fi B1:	5G Wi-Fi B4:
	802.11a: 11.55dBm	10.30 dBm
	802.11ac20: 9.58 dBm	9.37 dBm
	802.11ac40: 8.90 dBm	8.30 dBm
	802.11ac80: 5.96dBm	5.76 dBm
Operating Frequency	B1: 5180-5240 MHz, B4: 5745-5825 MHz	
Channel Number	B1: 7; B4: 8	
Channel Separation	802.11 a/ac20/n20: 20 MHz, 802.11ac40/n40: 40 MHz, 802.11ac80: 80 MHz	
Modulation Type	OFDM	
Antenna Type	PCB Antenna	
★Maximum Antenna Gain	B1: -0.12 dBi B4: -0.12 dBi	

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

All measurement and test data in this report was gathered from production sample serial number: RSHA250211002-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-02-11.)

Objective

This type approval report is prepared for *Tersus GNSS Inc.* 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, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, 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/n40/ac20/ac40/ ac80, the 802.11 n20/n40 were reduced since the identical parameters with 802.11ac20 and ac40.

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

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

802.11ac40 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 mode Channel 149, 157, 165 were tested.

802.11ac40 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

SecureCRT

The worst case was performed under:

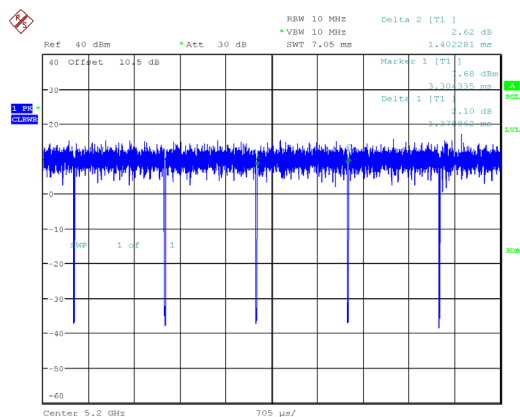
U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5150~5250MHz	802.11a	6Mbps	15	15	15
	802.11ac-VHT20	MCS0	14	14	14
	802.11ac-VHT40	MCS0	13	/	13
	802.11ac-VHT80	MCS0	/	10	/

U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5725~5850MHz	802.11a	6Mbps	15	15	15
	802.11ac-VHT20	MCS0	14	14	14
	802.11ac-VHT40	MCS0	13	/	13
	802.11ac-VHT80	MCS0	/	10	/

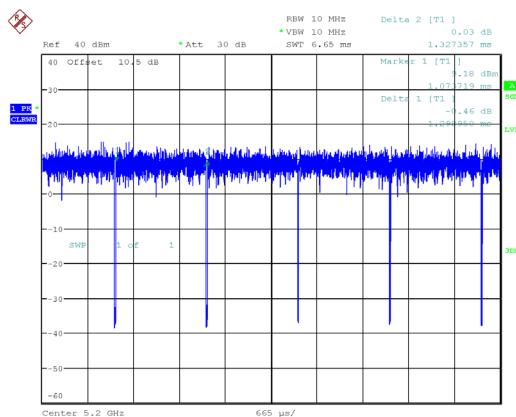
Note: The power level was declared by the applicant.

Duty Cycle**Environmental Conditions**

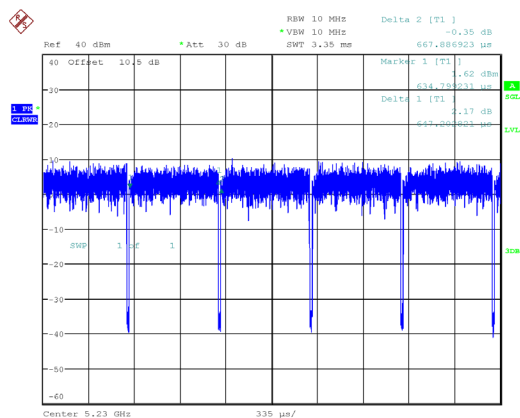
Test Date:	2025-04-11
Temperature:	21.5 °C
Relative Humidity:	49 %
ATM Pressure:	100.9 kPa
Test Engineer:	Neil Zhou

**5150MHz-5250MHz Band:
802.11a mode**

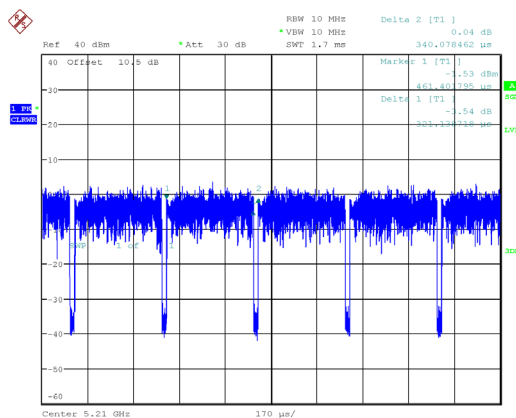
ProjectNo.:RSHA250211002 Tester:Neil Zhou
Date: 11.APR.2025 10:17:34

802.11ac20 mode

ProjectNo.:RSHA250211002 Tester:Neil Zhou
Date: 11.APR.2025 10:34:37

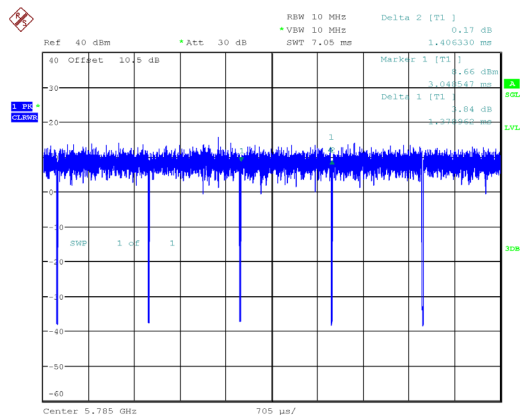
802.11ac40 mode

ProjectNo.:RSHA250211002 Tester:Neil Zhou
Date: 11.APR.2025 10:51:01

802.11ac80 mode

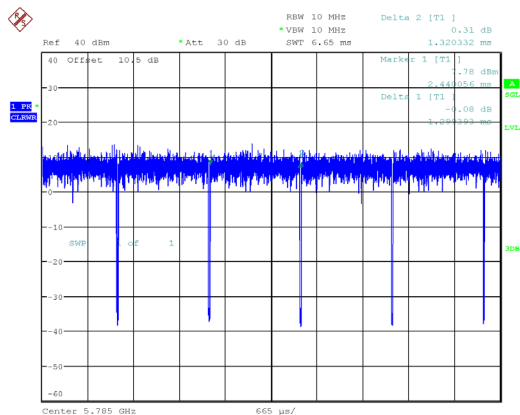
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Date: 11.APR.2025 10:56:36

5725MHz-5850MHz Band:
802.11a mode



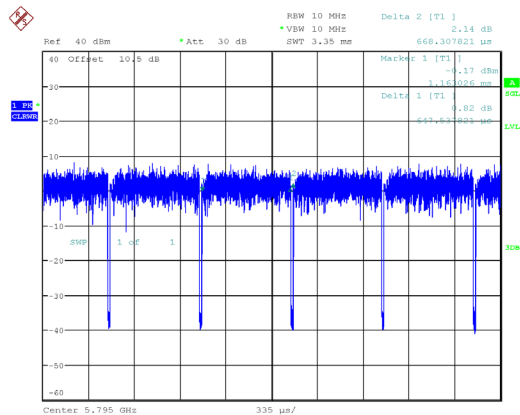
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Date: 11.APR.2025 11:07:56

802.11ac20 mode



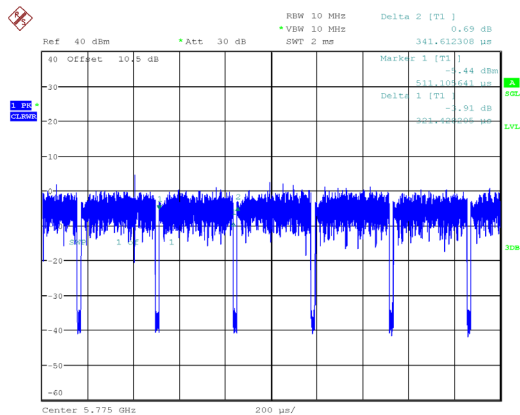
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Date: 11.APR.2025 11:29:32

802.11ac40 mode



ProjectNo.:RSHA250211002 Tester:Neil Zhou
Date: 11.APR.2025 11:48:43

802.11ac80 mode



ProjectNo.:RSHA250211002 Tester:Neil Zhou
Date: 11.APR.2025 11:57:40

5.2G

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)
802.11a	5200	1.379	1.402	98.36	/
802.11ac20	5200	1.299	1.327	97.89	0.09
802.11ac40	5230	0.647	0.668	96.86	0.14
802.11ac80	5210	0.321	0.340	94.41	0.25

5.8G

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)
802.11a	5785	1.379	1.406	98.08	/
802.11ac20	5785	1.299	1.320	98.41	/
802.11ac40	5795	0.648	0.668	97.01	0.13
802.11ac80	5775	0.321	0.342	93.86	0.28

Duty Cycle = Ton/(Ton+Toff)*100%

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

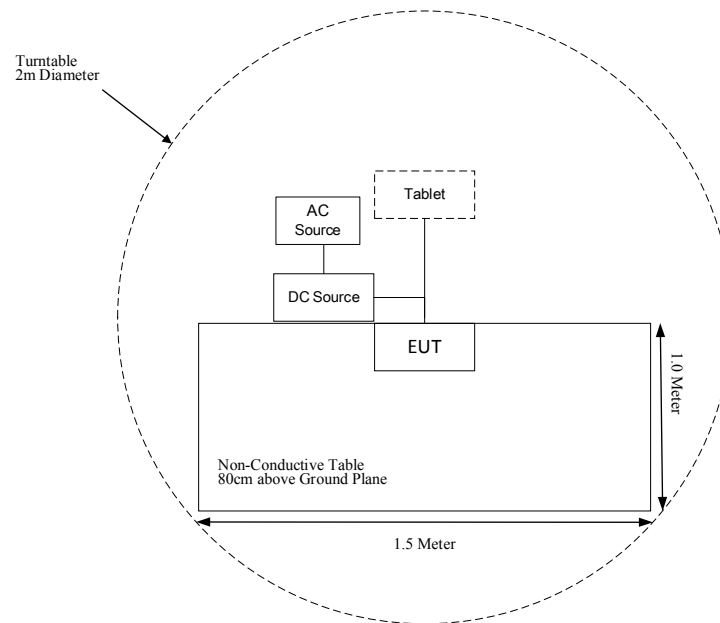
Manufacturer	Description	Model	Serial Number
ZHAOXIN	DC Source	RXN-605D	21R605D08132677
Tersus GNSS Inc.	Tablet	TC120	/

External I/O Cable

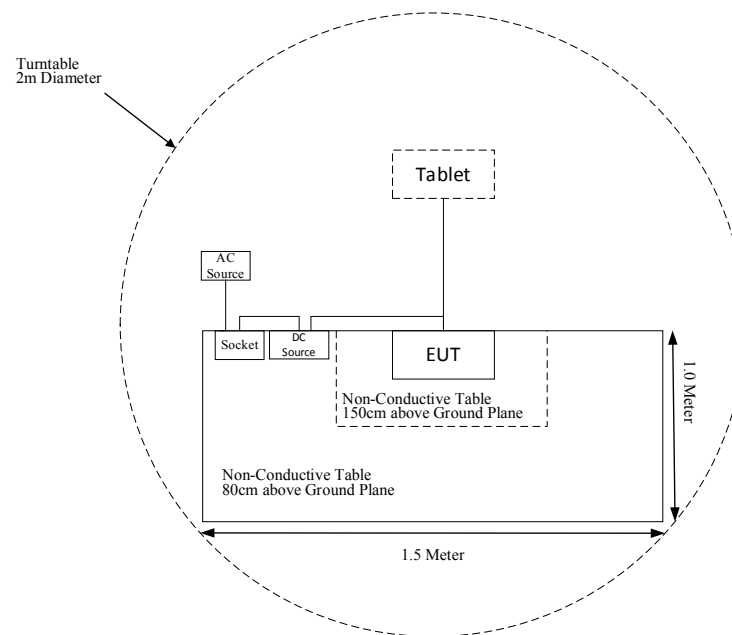
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.0	EUT	DC Source
Power Cable 2	1.0	DC Source	AC Source/ Socket
Data Cable	3.0	EUT	Tablet

Block Diagram of Test Setup

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1 GHz):



TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2024-04-23	2025-04-22
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Narda	6dB Attenuator	773-6	10690812-2-1	2024-10-29	2027-10-28
BACL	Active Loop Antenna	1313-1A	4041511	2024-11-22	2027-11-21
Sonoma Instrument	Pre-amplifier	310N	171205	2024-04-23	2025-04-22
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-9	009	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-10	010	2024-04-23	2025-04-22
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2024-04-25	2025-04-24
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2024-11-03	2027-11-02
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
A.H.Systems, inc	Amplifier	PAM-0118P	512	2024-04-25	2025-04-24
SELECTOR	Amplifier	EM18G40G	060726	2024-04-25	2025-04-24
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2024-04-25	2025-04-24
Narda	Attenuator	10dB	010	2024-04-25	2025-04-24
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-11	011	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-12	012	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-13	013	2024-04-25	2025-04-24
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2024-04-24	2025-04-23
Narda	Attenuator	10dB	010	2024-04-23	2025-04-22
Anritsu	Power Sensor	MA24418A	12621	2024-04-23	2025-04-22
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A

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

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 & §15.407(b) (9)	AC Power Line Conducted Emissions	Not Applicable (See Note)
§ 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

Note: The eut is used in the vehicular environment.

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	0.32	1.08	20.5	112.20	20	0.0241	1.0	0.0241
	2422-2452	0.32	1.08	20.5	112.20	20	0.0241	1.0	0.0241
BLE	2402-2480	0.32	1.08	1.5	1.41	20	0.0003	1.0	0.0003
5G Wi-Fi	5150-5250	-0.12	0.97	12.0	15.85	20	0.0031	1.0	0.0031
	5725-5850	-0.12	0.97	10.5	11.22	20	0.0022	1.0	0.0022
Classic BT	2402-2480	0.32	1.08	4.0	2.51	20	0.0005	1.0	0.0005
LTE Band 2	1850-1910	1.79	1.51	25	316.23	20	0.0950	1.0	0.0950
LTE Band 4	1710-1755	1.79	1.51	25	316.23	20	0.0950	1.0	0.0950
LTE Band 5	824-849	-0.78	0.84	25	316.23	20	0.0526	0.5493	0.0958
LTE Band 7	2500-2570	3.37	2.17	25	316.23	20	0.1365	1.0	0.1365
LTE Band 12	699-716	-3.24	0.47	25	316.23	20	0.0298	0.466	0.0639
LTE Band 13	777-787	-3.24	0.47	25	316.23	20	0.0298	0.518	0.0575
LTE Band 25	1850-1915	1.79	1.51	25	316.23	20	0.0950	1.0	0.0950
LTE Band 26	814-824	-0.78	0.84	25	316.23	20	0.0526	0.5427	0.0969
	824-849	-0.78	0.84	25	316.23	20	0.0526	0.5493	0.0958
LTE Band38	2570-2620	3.37	2.17	25	316.23	20	0.1365	1.0	0.1365
LTE Band41	2496-2690	3.37	2.17	25	316.23	20	0.1365	1.0	0.1365

Note:

1. For the above tune up power were declared by the manufacturer.
2. This device contains module (model No.: EG25-G) is the same with the certified device (Product Name: LTE Module, model: EG25-G, FCC ID: XMR201903EG25G, Grant: 03/29/2019).
3. LTE and 2.4G Wi-Fi/5G WIFI/ BLE/ Classic BT can transmit simultaneously.

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

$$= S_{LTE}/S_{limitLTE} + S_{2.4G Wi-Fi}/S_{limit2.4G Wi-Fi}$$

$$= 0.1365 + 0.0241$$

$$= 0.1606$$

$$< 1.0$$

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

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine 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	-0.12 dBi	50Ω
	5725~5850 MHz	-0.12 dBi	50Ω

Result: Compliant.

FCC §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:

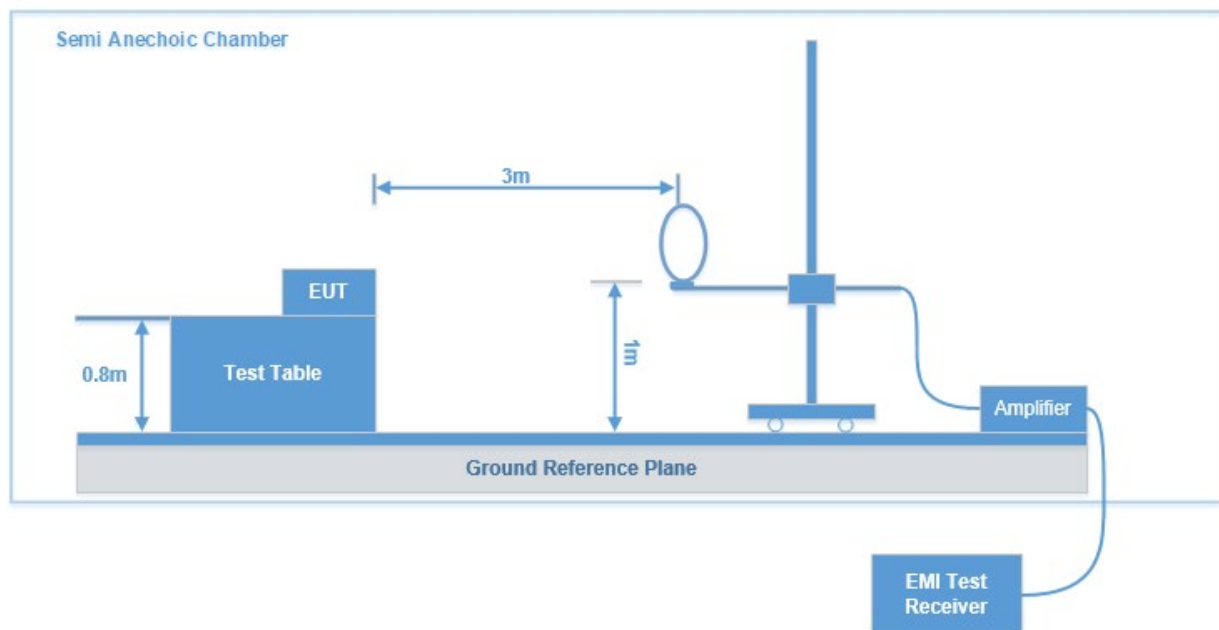
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the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

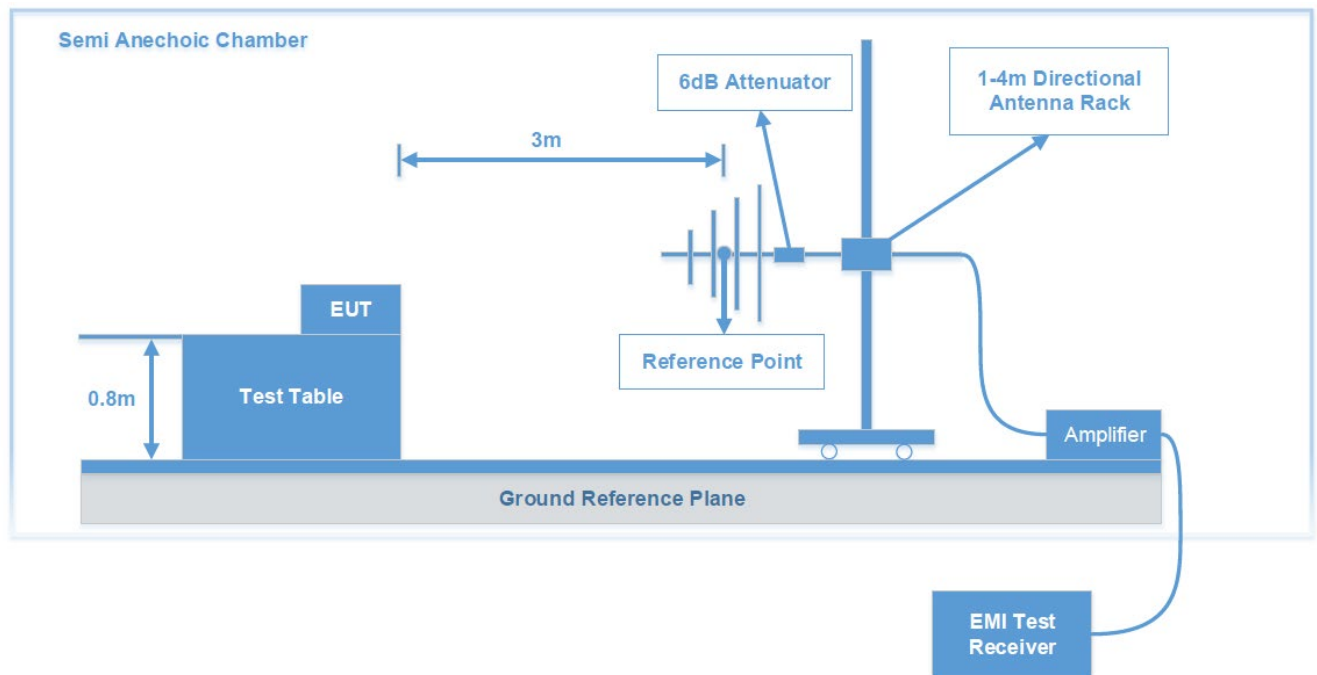
According to 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E [dB\mu V/m] = EIRP [dBm] + 95.2$, for $d = 3$ meters.

Test System Setup

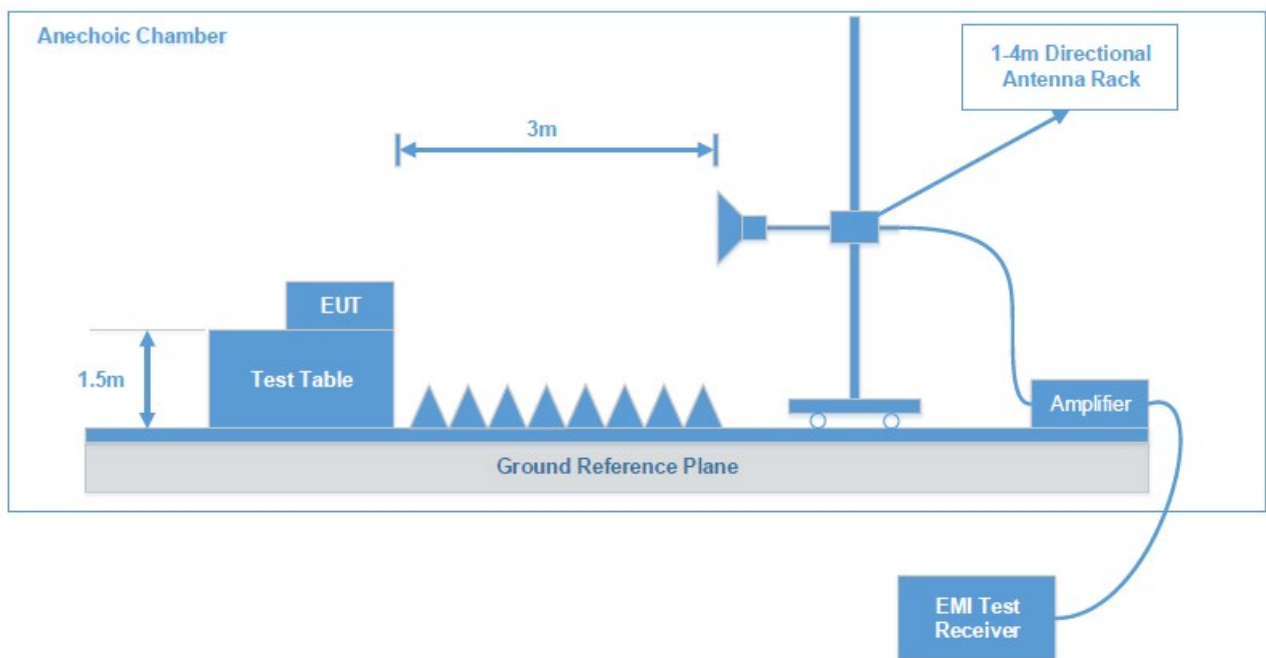
9kHz–30 MHz:



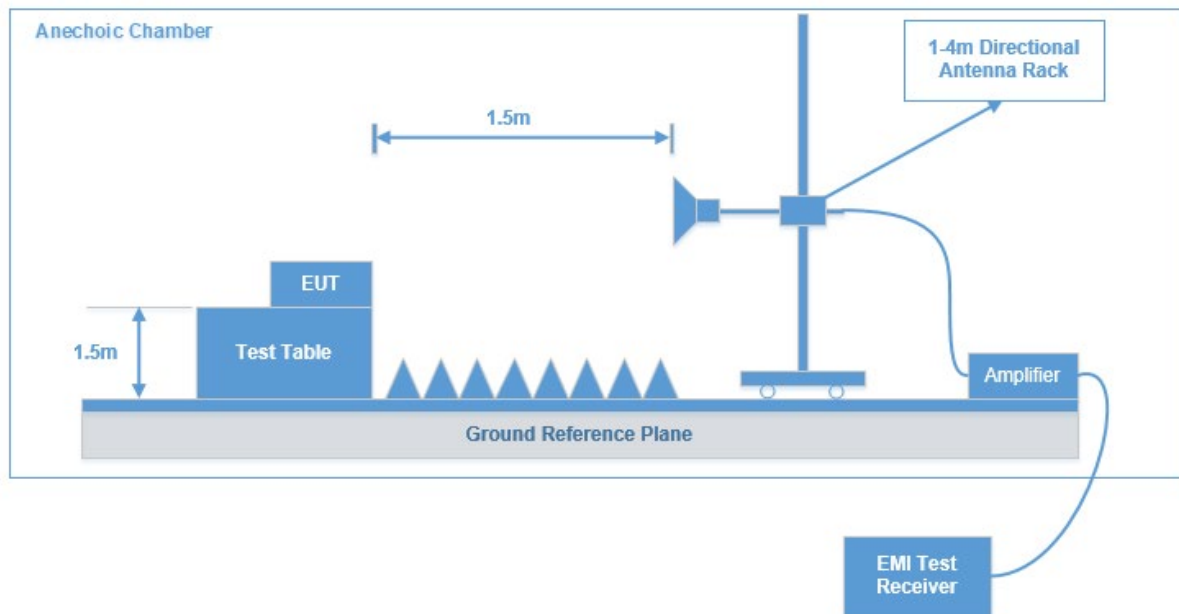
30MHz-1GHz:



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
9 kHz - 150 kHz	200 Hz	1 kHz	200 Hz	QP/Average
150 kHz - 30 MHz	9 kHz	30 kHz	9 kHz	QP/ Average
30 MHz - 1000 MHz	100 kHz	300 kHz	/	Peak
	/	/	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	Peak
	1MHz	3 MHz	/	Average

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

Test Procedure

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:

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

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

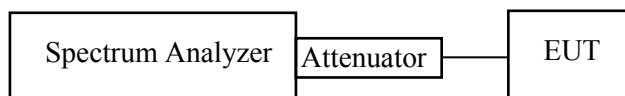
1. Emission Bandwidth (EBW)

- 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

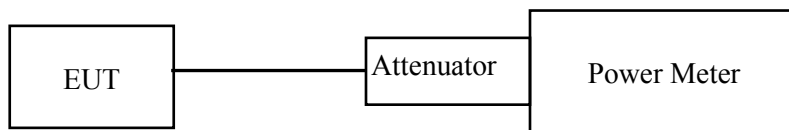
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting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



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 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.

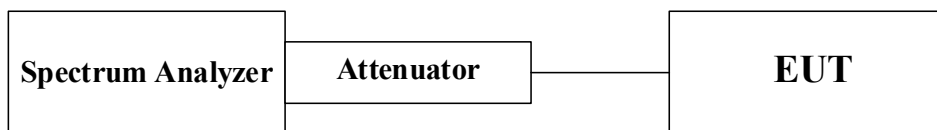
Test Procedure

The measurements are base on 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

EUT PHOTOGRAPHS

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

TEST SETUP PHOTOGRAPHS

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

APPENDIX - TEST DATA

TRANSMITTER UNWANTED EMISSIONS & RESTRICTED FREQUENCY BANDS

Environmental Conditions & Test Information

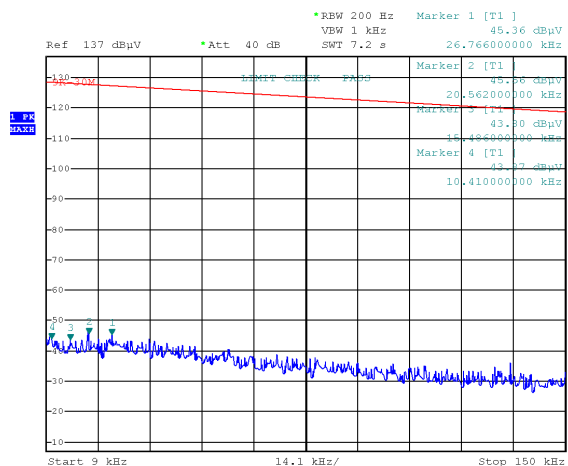
Frequency Range:	9 kHz - 30 MHz	30 MHz - 1 GHz	1 GHz - 18 GHz	18 GHz - 40 GHz
Test Date:	2025-04-07	2025-03-31	2025-04-02	2025-04-24
Temperature:	19.7 °C	17.2 °C	19.3 °C	20.6 °C
Relative Humidity:	47 %	44 %	48 %	49 %
ATM Pressure:	102.7.kPa	102.9 kPa	102.4 kPa	101.3 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Jerry Yan	Jerry Yan	Destine Hu	Hugh Wu

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

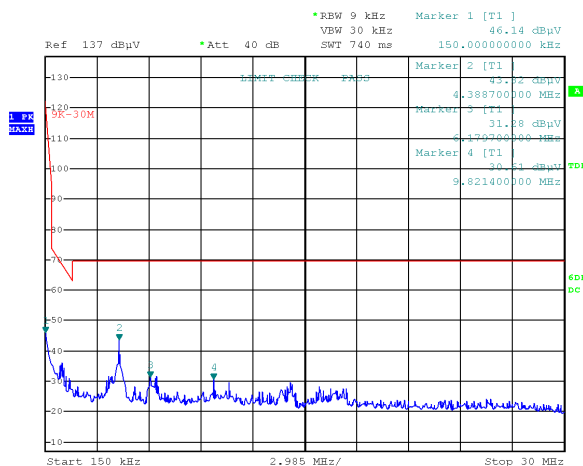
9 kHz-30 MHz: Transmitting in 802.11a mode 5240MHz (maximum output power)

Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



Project No.RSHA250211002
Date: 7.APR.2025 17:36:30

Tester:Jerry Yan

Project No.RSHA250211002
Date: 7.APR.2025 17:39:28

Tester:Jerry Yan

9kHz-150kHz

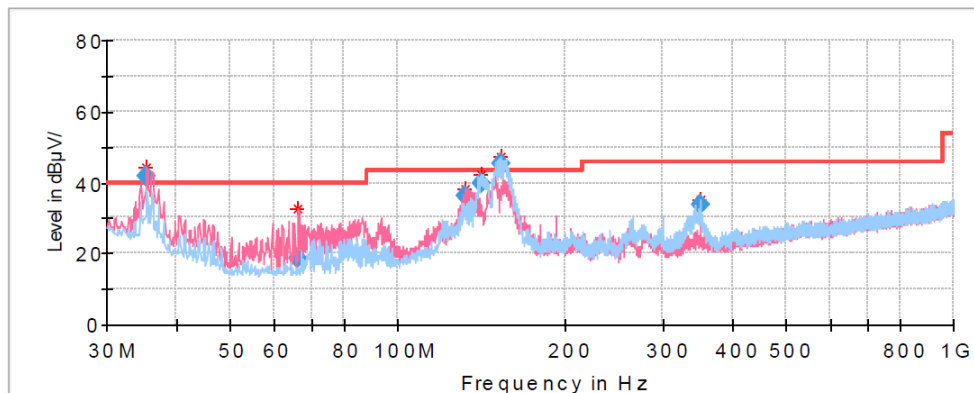
Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
10.41	43.87	PK	-0.51	127.26	83.39
15.49	43.80	PK	-0.54	123.80	80.00
20.56	45.56	PK	-0.56	121.34	75.78
26.77	45.36	PK	-0.59	119.05	73.69

150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15	46.14	PK	-11.34	104.08	57.94
4.39	43.82	PK	-31.97	69.54	25.72
6.18	31.28	PK	-32.24	69.54	38.26
9.82	30.61	PK	-32.78	69.54	38.93

30MHz-1GHz: Transmitting in 802.11a mode 5240MHz (maximum output power)**Common Information**

Project No: RSHA250211002
 EUT Model: GC30
 Test Mode: Transmitting in 802.11a mode high channel
 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: 17.2°C
 Humidity: 44%
 Barometric Pressure: 102.9kPa
 Test Engineer: Jerry Yan
 Test Date: 2025/3/31

**Final Result**

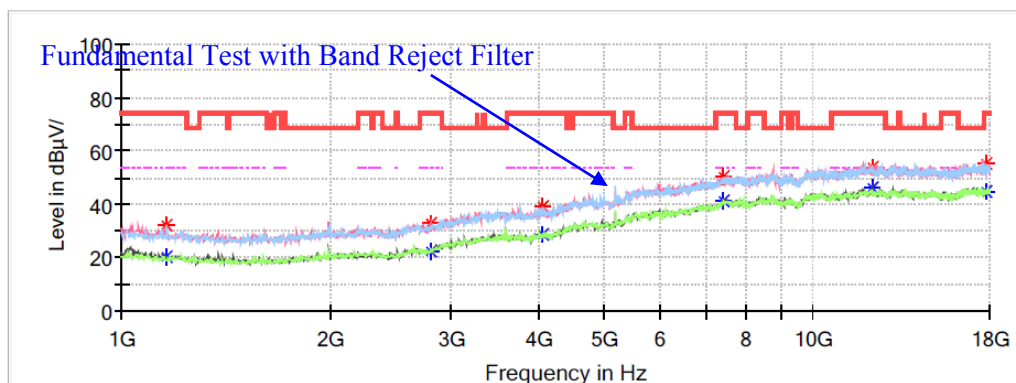
Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
35.390200▲	41.63	40.00	-1.63	V	-8.3
66.254450	18.37	40.00	21.63	V	-16.8
132.296500	36.15	43.50	7.35	V	-11.1
140.861800	39.66	43.50	3.84	H	-11.3
153.678300▲	45.21	43.50	-1.71	H	-11.9
350.010850	33.46	46.00	12.54	H	-9.2

Note ▲: The data recorded above represents the worst case for all supported operating modes, there were no spurious emission in the range 30MHz -1GHz over the limit in FCC part 15.209 caused by radio, the emission list at above table was investigated and was not caused by the radio, the emission was present when the radio was disabled. Those emissions comply with the FCC Part 15.109 limit set for Class A digital device as the EUT is a Class A equipment according to the user manual.

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

Project No.:	RSHA250211002
EUT Model:	GC30
Test Mode:	5G WIFI 802.11a mode 5180 MHz
Standard:	FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

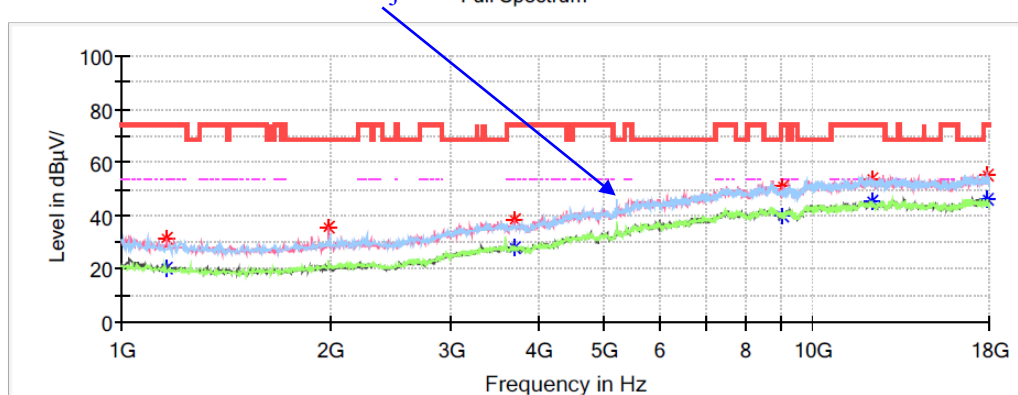
Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1163.200000	32.14	---	74.00	41.86	H	-15.2
1163.200000	---	20.44	54.00	33.56	V	-15.2
2791.800000	---	22.27	54.00	31.73	H	-9.2
2791.800000	33.02	---	74.00	40.98	V	-9.2
4070.200000	39.37	---	74.00	34.63	V	-5.7
4070.200000	---	28.52	54.00	25.48	H	-5.7
7429.400000	---	41.27	54.00	12.73	H	3.7
7429.400000	50.37	---	74.00	23.63	V	3.7
12141.800000	---	46.17	54.00	7.83	V	9.2
12141.800000	54.12	---	74.00	19.88	V	9.2
17816.400000	55.00	---	74.00	19.00	V	11.8
17816.400000	---	44.97	54.00	9.03	V	11.8

Middle Channel: 5200MHz**Common Information**

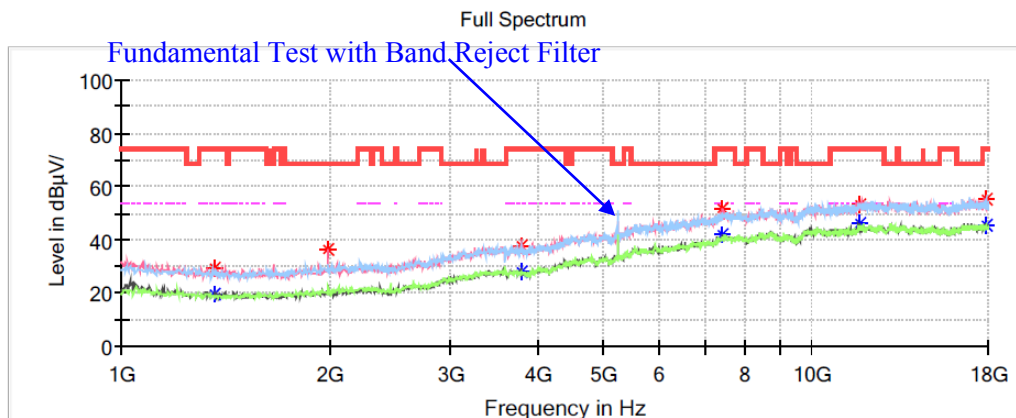
Project No.:	RSHA250211002
EUT Model:	GC30
Test Mode:	5G WIFI 802.11a mode 5200 MHz
Standard:	FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

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

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1163.200000	---	20.18	54.00	33.82	V	-15.2
1163.200000	31.74	---	74.00	42.26	V	-15.2
1992.800000	35.77	---	68.20	32.43	V	-11.8
3699.600000	38.26	---	74.00	35.74	V	-6.2
3699.600000	---	27.85	54.00	26.15	V	-6.2
9037.600000	---	40.07	54.00	13.93	H	5.4
9037.600000	50.90	---	74.00	23.10	V	5.4
12155.400000	---	45.65	54.00	8.35	H	9.2
12155.400000	53.78	---	74.00	20.22	H	9.2
17884.400000	---	46.09	54.00	7.91	H	11.9
17884.400000	55.54	---	74.00	18.46	H	11.9

High Channel: 5240MHz**Common Information**

Project No.: RSHA250211002
 EUT Model: GC30
 Test Mode: 5G WIFI 802.11a mode 5240MHz
 Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

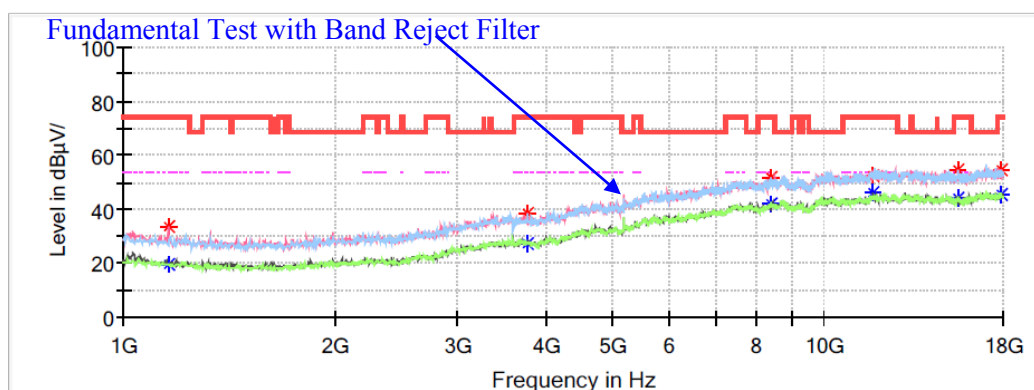
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1363.800000	---	19.47	54.00	34.53	V	-14.9
1363.800000	29.72	---	74.00	44.28	V	-14.9
1989.400000	36.19	---	68.20	32.01	V	-11.8
3784.600000	---	27.88	54.00	26.12	H	-6.1
3784.600000	37.94	---	74.00	36.06	H	-6.1
7405.600000	---	41.77	54.00	12.23	V	3.7
7405.600000	51.63	---	74.00	22.37	V	3.7
11733.800000	---	46.49	54.00	7.51	V	8.9
11733.800000	53.17	---	74.00	20.83	V	8.9
17833.400000	55.36	---	74.00	18.64	H	11.8
17833.400000	---	45.26	54.00	8.74	H	11.8

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

Project No.: RSHA250211002
 EUT Model: GC30
 Test Mode: 5G WIFI 802.11ac20 mode 5180MHz
 Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

Full Spectrum

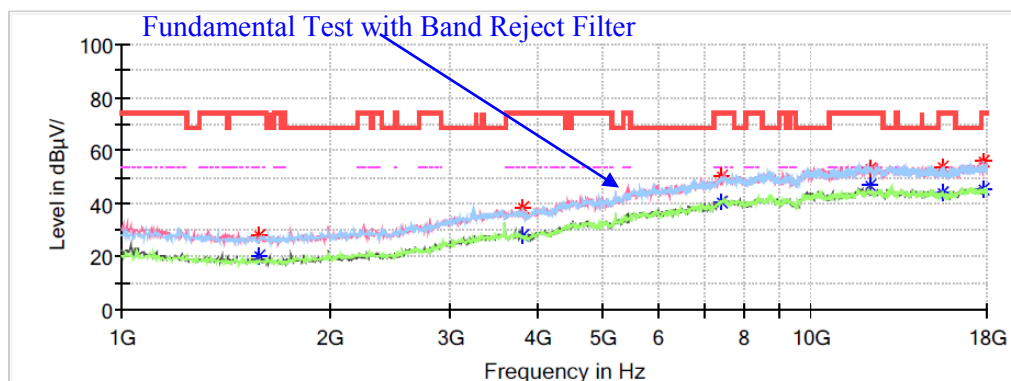
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1159.800000	33.57	---	74.00	40.43	V	-15.2
1159.800000	---	19.52	54.00	34.48	H	-15.2
3767.600000	38.12	---	74.00	35.88	H	-6.1
3767.600000	---	27.47	54.00	26.53	H	-6.1
8405.200000	---	42.21	54.00	11.79	H	5.1
8405.200000	51.94	---	74.00	22.06	H	5.1
11723.600000	---	46.13	54.00	7.87	V	8.9
11723.600000	52.70	---	74.00	21.30	V	8.9
15524.800000	---	44.00	54.00	10.00	H	9.8
15524.800000	54.27	---	74.00	19.73	H	9.8
17864.000000	54.86	---	74.00	19.14	H	11.8

Middle Channel: 5200MHz**Common Information**

Project No.: RSHA250211002
 EUT Model: GC30
 Test Mode: 5G WIFI 802.11ac20 mode 5200MHz
 Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

Full Spectrum

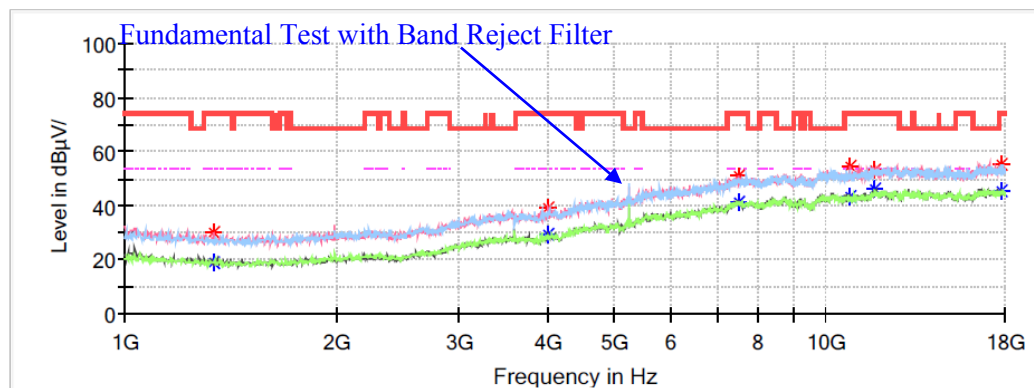
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1581.400000	---	20.53	54.00	33.47	V	-14.2
1581.400000	28.24	---	74.00	45.76	V	-14.2
3815.200000	---	27.66	54.00	26.34	H	-6.1
3815.200000	38.28	---	74.00	35.72	H	-6.1
7402.200000	---	40.72	54.00	13.28	H	3.6
7402.200000	50.45	---	74.00	23.55	V	3.6
12169.000000	---	46.80	54.00	7.20	V	9.2
12169.000000	52.97	---	74.00	21.03	V	9.2
15524.800000	---	43.86	54.00	10.14	H	9.8
15524.800000	53.99	---	74.00	20.01	H	9.8
17809.600000	55.83	---	74.00	18.17	H	11.8
17809.600000	---	45.20	54.00	8.80	H	11.8

High Channel: 5240MHz**Common Information**

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac20 mode 5240MHz
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

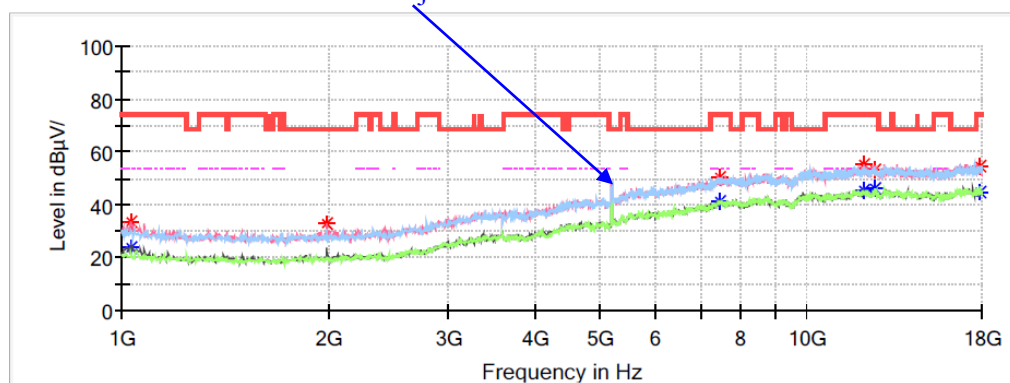
Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1340.000000	29.74	---	74.00	44.26	V	-15.0
1340.000000	---	18.93	54.00	35.07	V	-15.0
4022.600000	39.09	---	74.00	34.91	V	-5.8
4022.600000	---	29.12	54.00	24.88	V	-5.8
7524.600000	---	40.98	54.00	13.02	V	3.9
7524.600000	51.12	---	74.00	22.88	V	3.9
10809.000000	---	43.16	54.00	10.84	V	7.2
10809.000000	54.24	---	74.00	19.76	V	7.2
11723.600000	53.15	---	74.00	20.85	V	8.9
11723.600000	---	45.92	54.00	8.08	V	8.9
17765.400000	---	45.63	54.00	8.37	H	11.8
17765.400000	55.35	---	74.00	18.65	H	11.8

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

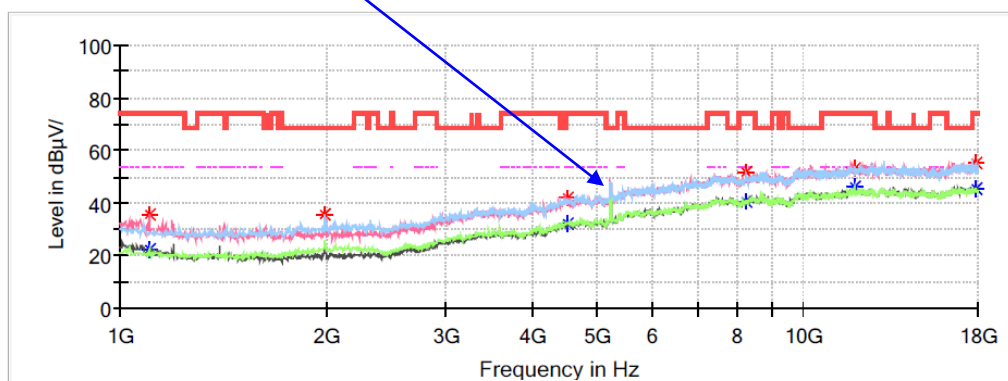
Project No.: RSHA250211002
 EUT Model: GC30
 Test Mode: 5G WIFI 802.11ac40 mode 5190MHz
 Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

Fundamental Test with Band Reject Filter**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1030.600000	---	24.09	54.00	29.91	V	-15.4
1030.600000	33.85	---	74.00	40.15	V	-15.4
1989.400000	33.01	---	68.20	35.19	V	-11.8
7446.400000	---	41.44	54.00	12.56	H	3.8
7446.400000	50.55	---	74.00	23.45	V	3.8
12124.800000	---	45.12	54.00	8.88	V	9.1
12124.800000	55.05	---	74.00	18.95	V	9.1
12580.400000	---	45.81	54.00	8.19	H	9.7
12580.400000	53.21	---	74.00	20.79	H	9.7
17860.600000	54.84	---	74.00	19.16	H	11.8
17860.600000	---	44.69	54.00	9.31	H	11.8

Channel: 5230MHz**Common Information**

Project No.:	RSHA250211002
EUT Model:	GC30
Test Mode:	5G WIFI 802.11ac40 mode 5230MHz
Standard:	FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

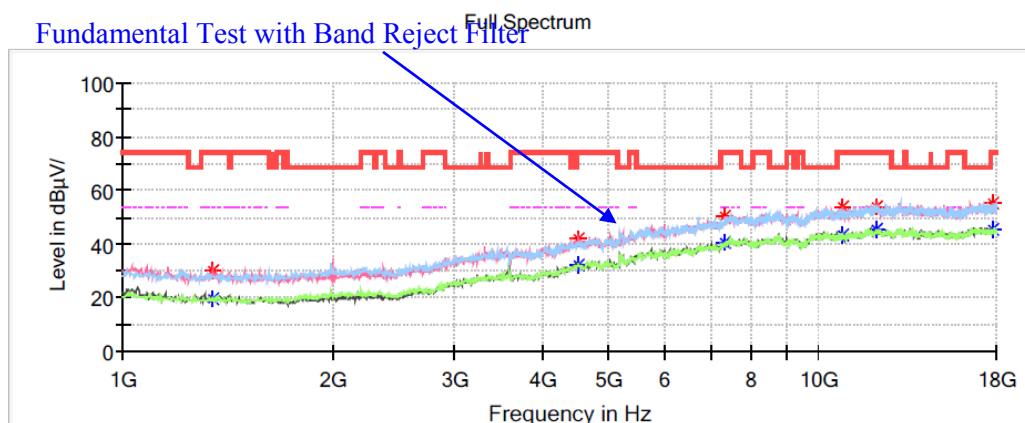
Fundamental Test with Band Reject Filter Full Spectrum**Critical Freqs**

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	---	22.68	54.00	31.32	H	-15.3
1102.000000	35.35	---	74.00	38.65	V	-15.3
1992.800000	35.61	---	68.20	32.59	H	-11.8
4522.400000	---	32.46	54.00	21.54	H	-4.2
4522.400000	42.27	---	74.00	31.73	V	-4.2
8228.400000	---	40.79	54.00	13.21	V	4.6
8228.400000	51.68	---	74.00	22.32	V	4.6
11842.600000	---	45.82	54.00	8.18	H	8.9
11842.600000	53.02	---	74.00	20.98	V	8.9
17847.000000	55.20	---	74.00	18.80	H	11.8
17847.000000	---	45.45	54.00	8.55	V	11.8

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

Project No.: RSHA250211002
 EUT Model: GC30
 Test Mode: 5G WIFI 802.11ac80 mode 5210MHz
 Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

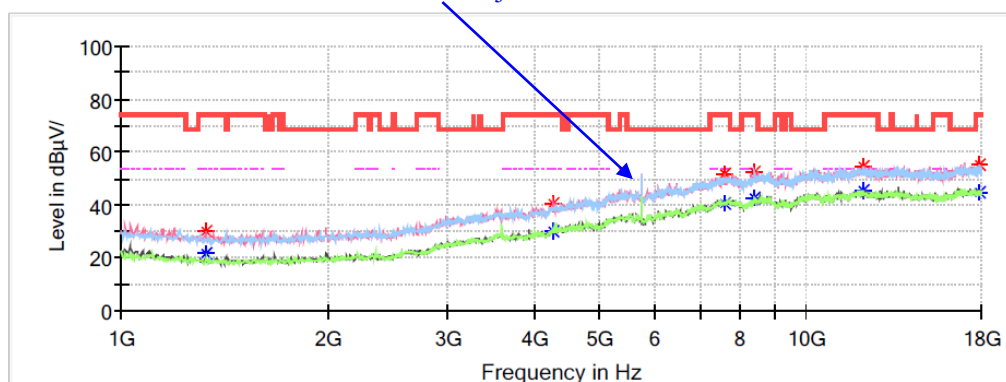
Fundamental Test with Band Reject Filter

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1343.400000	---	19.75	54.00	34.25	H	-15.0
1343.400000	29.97	---	74.00	44.03	V	-15.0
4525.800000	---	32.29	54.00	21.71	V	-4.2
4525.800000	42.10	---	74.00	31.90	V	-4.2
7341.000000	---	40.34	54.00	13.66	V	3.5
7341.000000	50.17	---	74.00	23.83	V	3.5
10819.200000	---	43.11	54.00	10.89	H	7.2
10819.200000	53.54	---	74.00	20.46	V	7.2
12121.400000	---	45.78	54.00	8.22	V	9.1
12121.400000	53.57	---	74.00	20.43	V	9.1
17799.400000	55.12	---	74.00	18.88	V	11.8
17799.400000	---	45.14	54.00	8.86	H	11.8

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

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11a mode 5745MHz
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

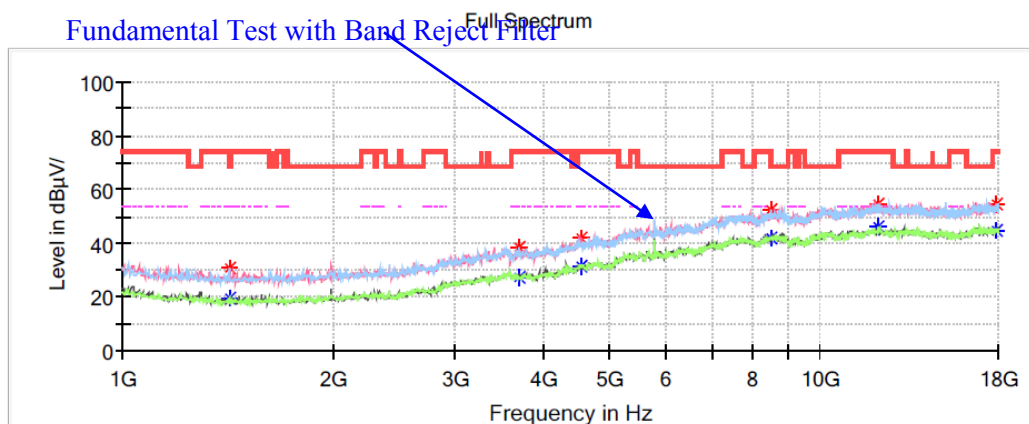
Fundamental Test with Band Reject Filter**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1329.800000	---	21.92	54.00	32.08	V	-15.0
1329.800000	29.83	---	74.00	44.17	V	-15.0
4281.000000	---	29.79	54.00	24.21	H	-5.0
4281.000000	40.90	---	74.00	33.10	V	-5.0
7619.800000	---	40.23	54.00	13.77	H	3.9
7619.800000	51.40	---	74.00	22.60	V	3.9
8418.800000	---	42.71	54.00	11.29	H	5.2
8418.800000	52.64	---	74.00	21.36	H	5.2
12087.400000	54.55	---	74.00	19.45	H	9.1
12087.400000	---	45.44	54.00	8.56	H	9.1
17891.200000	---	44.88	54.00	9.12	V	11.9
17891.200000	55.49	---	74.00	18.51	H	11.9

Middle Channel: 5785MHz**Common Information**

Project No.: RSHA250211002
 EUT Model: GC30
 Test Mode: 5G WIFI 802.11a mode 5785MHz
 Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

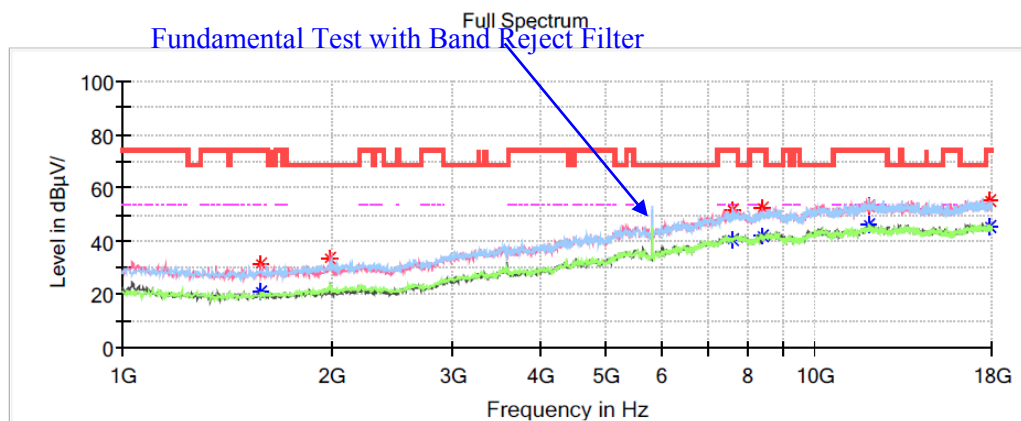
Fundamental Test with Band Reject Filter

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1421.600000	---	19.36	54.00	34.64	V	-14.8
1421.600000	30.73	---	74.00	43.27	H	-14.8
3706.400000	---	27.59	54.00	26.41	V	-6.2
3706.400000	38.19	---	74.00	35.81	H	-6.2
4542.800000	---	31.22	54.00	22.78	H	-4.1
4542.800000	42.30	---	74.00	31.70	V	-4.1
8486.800000	---	41.62	54.00	12.38	H	5.4
8486.800000	52.11	---	74.00	21.89	H	5.4
12121.400000	54.60	---	74.00	19.40	H	9.1
12121.400000	---	45.89	54.00	8.11	H	9.1
17942.200000	---	44.67	54.00	9.33	H	11.9
17942.200000	54.89	---	74.00	19.11	V	11.9

High Channel: 5825MHz**Common Information**

Project No.: RSHA250211002
 EUT Model: GC30
 Test Mode: 5G WIFI 802.11a mode 5825MHz
 Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

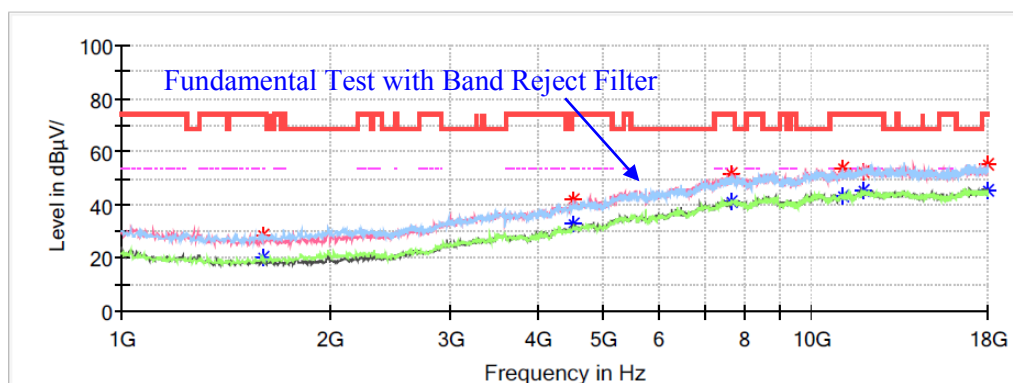
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1581.400000	---	20.76	54.00	33.24	H	-14.2
1581.400000	31.46	---	74.00	42.54	V	-14.2
1996.200000	33.51	---	68.20	34.69	V	-11.8
7623.200000	---	40.79	54.00	13.21	V	3.9
7623.200000	51.72	---	74.00	22.28	H	3.9
8391.600000	---	42.21	54.00	11.79	V	5.1
8391.600000	52.60	---	74.00	21.40	V	5.1
11988.800000	---	45.87	54.00	8.13	H	9.0
11988.800000	52.80	---	74.00	21.20	H	9.0
17911.600000	55.57	---	74.00	18.43	V	11.9
17911.600000	---	45.22	54.00	8.78	V	11.9

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

Project No.:	RSHA250211002
EUT Model:	GC30
Test Mode:	5G WIFI 802.11ac20 mode 5745MHz
Standard:	FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

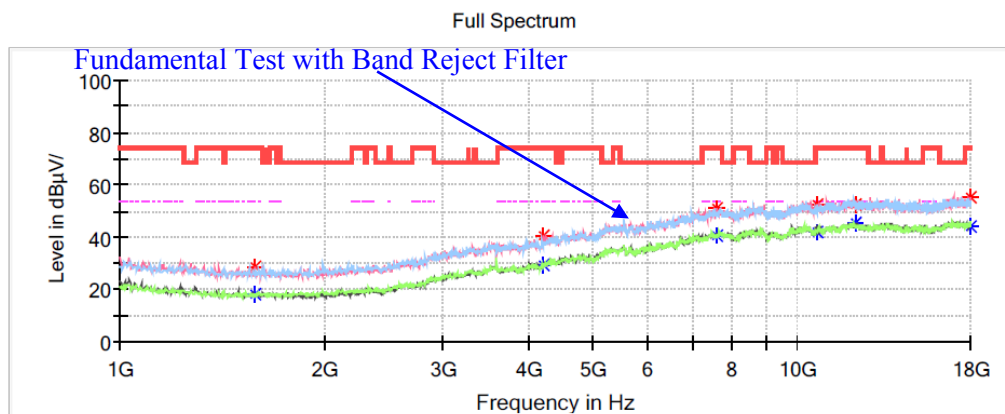
Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1605.200000	29.00	---	74.00	45.00	H	-14.1
1605.200000	---	20.33	54.00	33.67	H	-14.1
4522.400000	42.20	---	74.00	31.80	V	-4.2
4522.400000	---	32.68	54.00	21.32	V	-4.2
7643.600000	51.43	---	74.00	22.57	V	3.9
7643.600000	---	40.95	54.00	13.05	V	3.9
11125.200000	---	43.28	54.00	10.72	H	7.7
11125.200000	53.70	---	74.00	20.30	H	7.7
11910.600000	---	45.37	54.00	8.63	V	9.0
11910.600000	52.57	---	74.00	21.43	V	9.0
17966.000000	55.30	---	74.00	18.70	H	11.9
17966.000000	---	45.48	54.00	8.52	V	11.9

Middle Channel: 5785MHz**Common Information**

Project No.: RSHA250211002
 EUT Model: GC30
 Test Mode: 5G WIFI 802.11ac20 mode 5785MHz
 Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

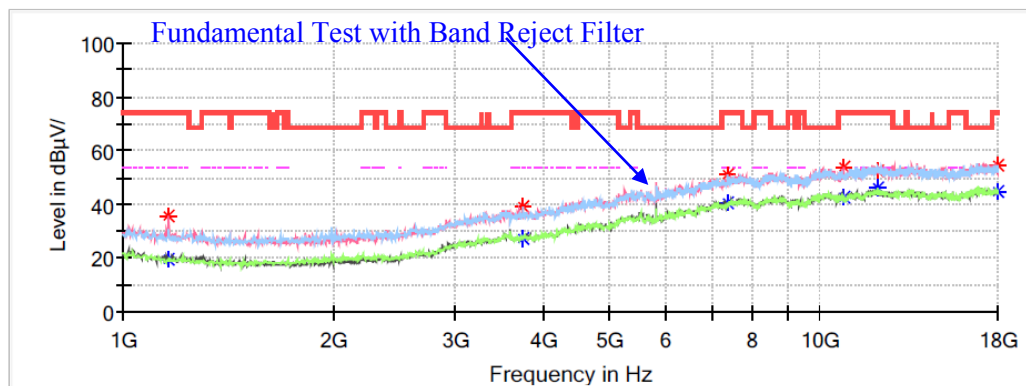
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1581.400000	28.74	---	74.00	45.26	V	-14.2
1581.400000	---	18.42	54.00	35.58	V	-14.2
4216.400000	40.66	---	74.00	33.34	V	-5.2
4216.400000	---	29.09	54.00	24.91	V	-5.2
7613.000000	---	40.27	54.00	13.73	H	3.9
7613.000000	50.91	---	74.00	23.09	V	3.9
10679.800000	---	42.01	54.00	11.99	H	7.2
10679.800000	52.68	---	74.00	21.32	V	7.2
12182.600000	---	45.55	54.00	8.45	V	9.2
12182.600000	52.50	---	74.00	21.50	H	9.2
17959.200000	55.26	---	74.00	18.74	V	11.9
17959.200000	---	44.31	54.00	9.69	V	11.9

High Channel: 5825MHz**Common Information**

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac20 mode 5825MHz
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

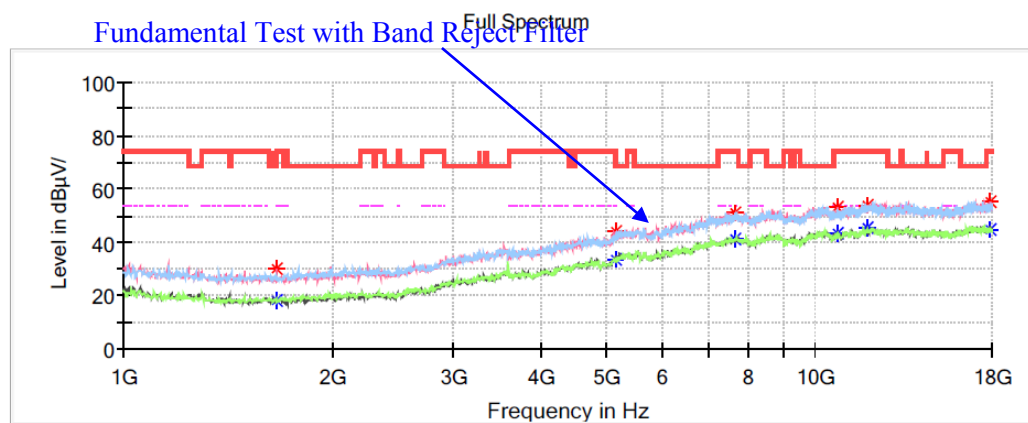
Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1163.200000	---	19.77	54.00	34.23	V	-15.2
1163.200000	35.37	---	74.00	38.63	V	-15.2
3750.600000	---	27.56	54.00	26.44	V	-6.1
3750.600000	38.89	---	74.00	35.11	H	-6.1
7364.800000	---	40.85	54.00	13.15	H	3.5
7364.800000	51.14	---	74.00	22.86	H	3.5
10832.800000	---	42.97	54.00	11.03	V	7.2
10832.800000	53.62	---	74.00	20.38	V	7.2
12087.400000	52.55	---	74.00	21.45	V	9.1
12087.400000	---	45.95	54.00	8.05	H	9.1
17983.000000	---	44.97	54.00	9.03	H	11.9
17983.000000	54.72	---	74.00	19.28	H	11.9

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

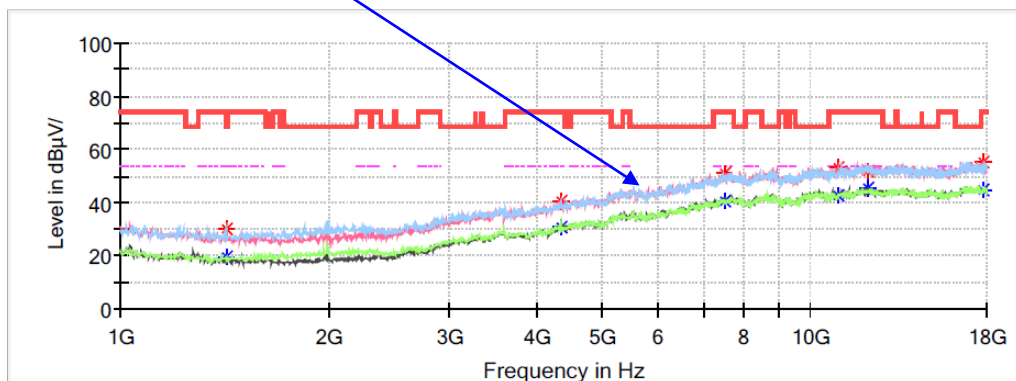
Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac40 mode 5755MHz
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1663.000000	---	18.14	54.00	35.86	H	-13.8
1663.000000	30.01	---	74.00	43.99	V	-13.8
5131.000000	---	33.79	54.00	20.21	V	-1.9
5131.000000	44.31	---	74.00	29.69	V	-1.9
7667.400000	---	41.29	54.00	12.71	V	3.9
7667.400000	51.34	---	74.00	22.66	H	3.9
10730.800000	---	43.60	54.00	10.40	H	7.2
10730.800000	53.26	---	74.00	20.74	V	7.2
11890.200000	53.54	---	74.00	20.46	V	8.9
11890.200000	---	45.63	54.00	8.37	V	8.9
17901.400000	---	44.69	54.00	9.31	H	11.9
17901.400000	55.04	---	74.00	18.96	V	11.9

Channel: 5795MHz**Common Information**

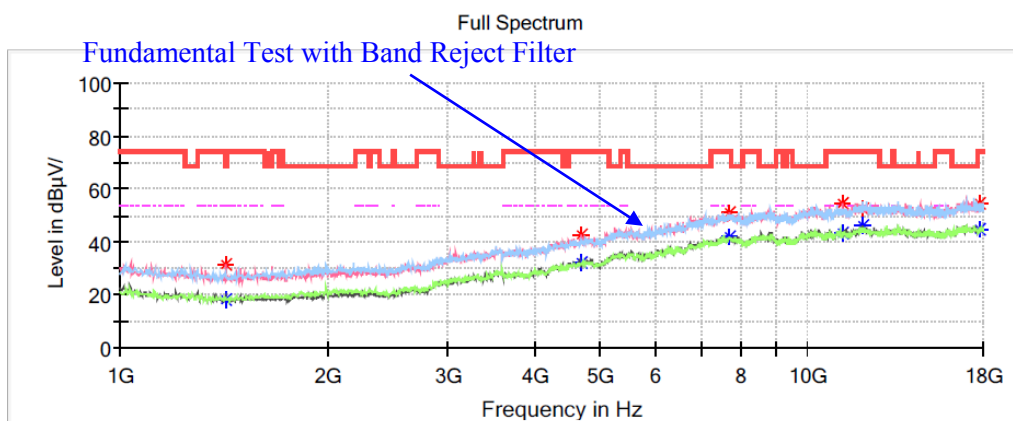
Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac40 mode 5795MHz
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Fundamental Test with Band Reject Filter 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)
1421.600000	30.10	---	74.00	43.90	H	-14.8
1421.600000	---	19.91	54.00	34.09	V	-14.8
4342.200000	40.90	---	74.00	33.10	V	-4.8
4342.200000	---	31.02	54.00	22.98	V	-4.8
7500.800000	50.94	---	74.00	23.06	V	3.9
7500.800000	---	40.59	54.00	13.41	V	3.9
10928.000000	---	42.34	54.00	11.66	H	7.3
10928.000000	53.24	---	74.00	20.76	V	7.3
12135.000000	---	45.66	54.00	8.34	V	9.2
12135.000000	52.08	---	74.00	21.92	V	9.2
17789.200000	55.50	---	74.00	18.50	V	11.8
17789.200000	---	44.87	54.00	9.13	V	11.8

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

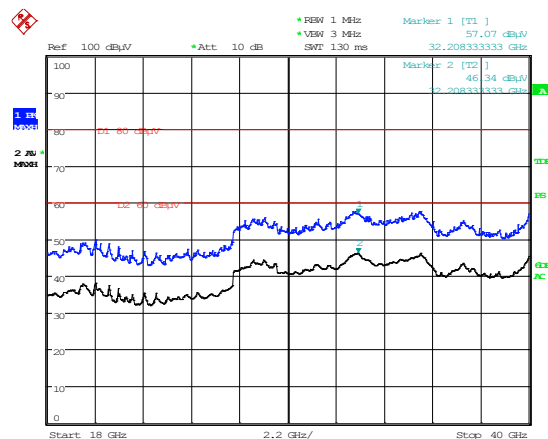
Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac80 mode 5775MHz
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1425.000000	---	18.37	54.00	35.63	H	-14.8
1425.000000	31.16	---	74.00	42.84	V	-14.8
4685.600000	---	32.08	54.00	21.92	V	-3.6
4685.600000	42.58	---	74.00	31.42	V	-3.6
7691.200000	---	41.68	54.00	12.32	V	3.9
7691.200000	51.26	---	74.00	22.74	V	3.9
11247.600000	---	43.48	54.00	10.52	V	8.1
11247.600000	54.30	---	74.00	19.70	V	8.1
11995.600000	52.21	---	74.00	21.79	V	9.0
11995.600000	---	46.02	54.00	7.98	V	9.0
17768.800000	---	44.44	54.00	9.56	H	11.8
17768.800000	54.69	---	74.00	19.31	H	11.8

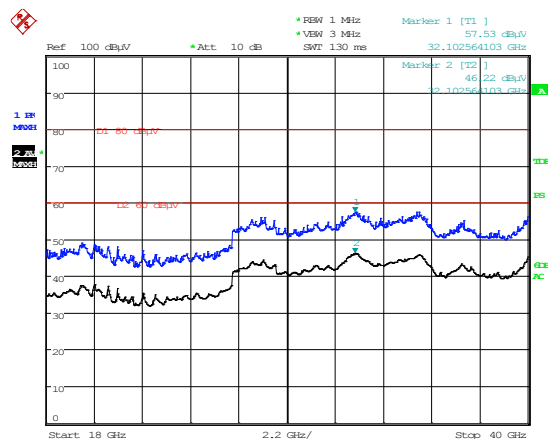
18GHz-40GHz:

Pre-scan with 802.11a, 802.11ac20, 802.11ac40, 802.11ac80 modes of operation in the X,Y and Z axes of orientation, the worst case **802.11a mode (5240MHz)** was recorded

Horizontal

Project No :RSHA250211002
Date: 24.APR.2025 04:23:37

Tester :Hugh Wu

Vertical

Project No :RSHA250211002
Date: 24.APR.2025 04:56:48

Tester :Hugh Wu

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

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
32.10	---	46.22	60	13.78	V	23.24
32.10	57.53	---	80	22.47	V	23.24
32.21	---	46.34	60	13.66	H	23.35
32.21	57.07	---	80	22.93	H	23.35

Restricted Bands Emissions Test (5150-5250MHz Band):

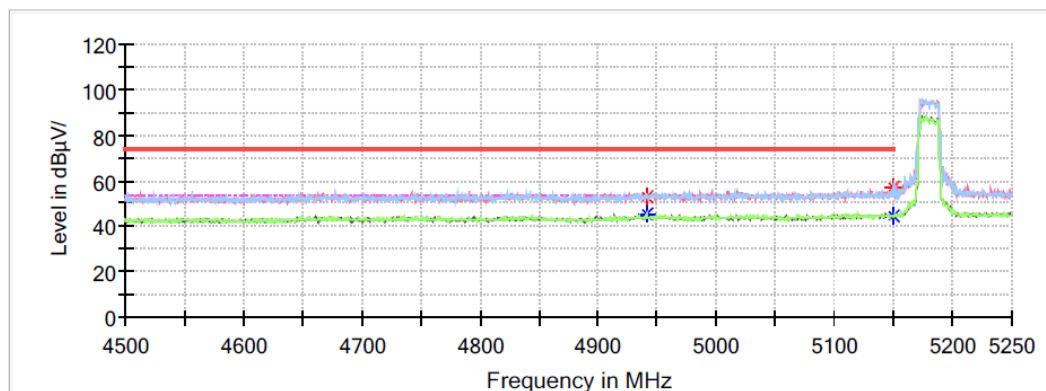
Note:

1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
2. Corrected Amplitude = Corrected Factor + Reading
3. Margin = Limit - Corrected. Amplitude

802.11a Mode:**Common Information**

Project No.: RSHA250211002
 EUT Model: GC30
 Test Mode: 5G WIFI 802.11a mode 5180MHz
 Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Test Engineer: Destine Hu

Full Spectrum

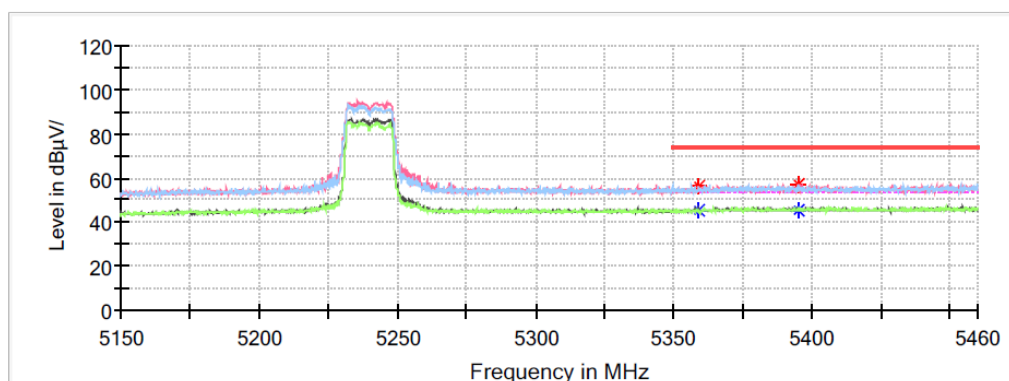
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
4940.700000	---	45.23	54.00	8.77	H	7.6
4940.700000	53.05	---	74.00	20.95	H	7.6
5149.200000	---	44.61	54.00	9.39	V	8.2
5149.200000	57.40	---	74.00	16.60	H	8.2

Common Information

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11a mode 5240 channel
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum



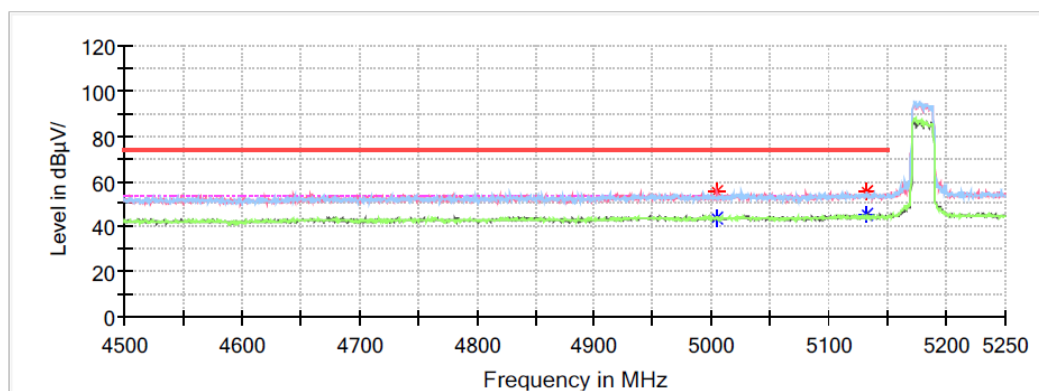
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5359.312000	56.31	---	74.00	17.69	V	8.8
5359.312000	---	45.00	54.00	9.00	H	8.8
5395.024000	---	45.43	54.00	8.57	V	8.8
5395.024000	57.19	---	74.00	16.81	H	8.8

802.11ac20 Mode:**Common Information**

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac20 mode 5180 channel
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum

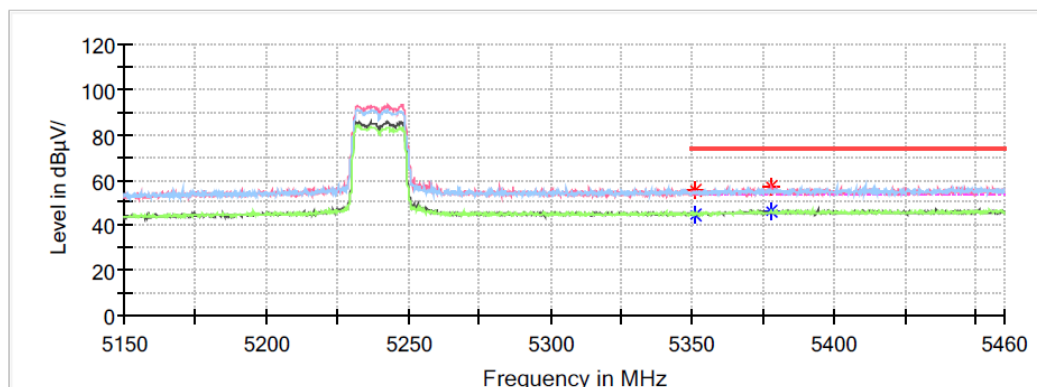
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5004.900000	55.77	---	74.00	18.23	V	7.9
5004.900000	---	43.63	54.00	10.37	V	7.9
5132.400000	55.38	---	74.00	18.62	H	8.2
5132.400000	---	45.16	54.00	8.84	H	8.2

Common Information

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac20 mode 5240 channel
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum



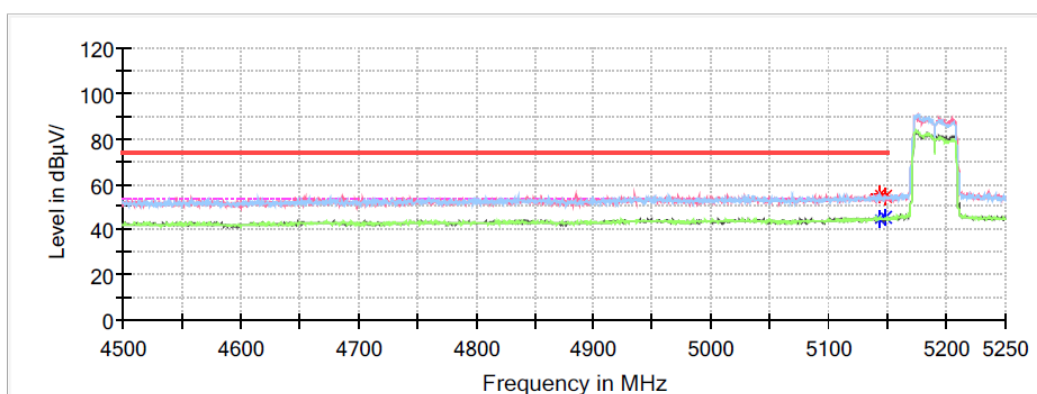
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5351.128000	---	44.89	54.00	9.11	H	8.7
5351.128000	55.69	---	74.00	18.31	V	8.7
5378.036000	---	46.00	54.00	8.00	H	8.8
5378.036000	56.69	---	74.00	17.31	V	8.8

802.11ac40 Mode:**Common Information**

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac40 mode 5190 channel
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum

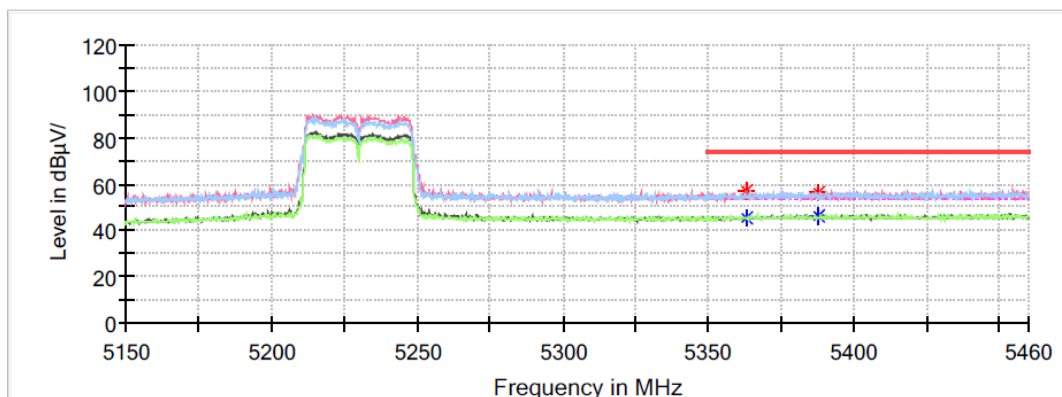
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5144.100000	55.24	---	74.00	18.76	H	8.2
5144.100000	---	44.56	54.00	9.44	V	8.2
5148.000000	54.27	---	74.00	19.73	H	8.2
5148.000000	---	45.60	54.00	8.40	H	8.2

Common Information

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac40 mode 5230 channel
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum



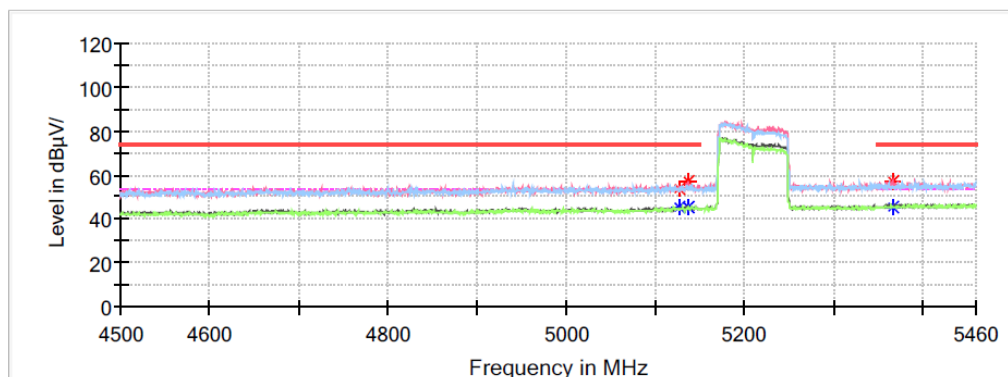
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5363.032000	---	45.43	54.00	8.57	H	8.8
5363.032000	56.73	---	74.00	17.27	V	8.8
5387.956000	---	45.82	54.00	8.18	V	8.8
5387.956000	56.33	---	74.00	17.67	V	8.8

802.11ac80 Mode:**Common Information**

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac80 mode 5210 channel
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5127.456000	---	45.69	54.00	8.31	V	8.2
5127.456000	53.51	---	74.00	20.49	H	8.2
5137.056000	---	45.07	54.00	8.93	V	8.2
5137.056000	56.71	---	74.00	17.29	V	8.2
5365.920000	---	45.35	54.00	8.65	V	8.8
5365.920000	57.08	---	74.00	16.92	V	8.8

Bandedge Emissions Test (5725-5850MHz Band):

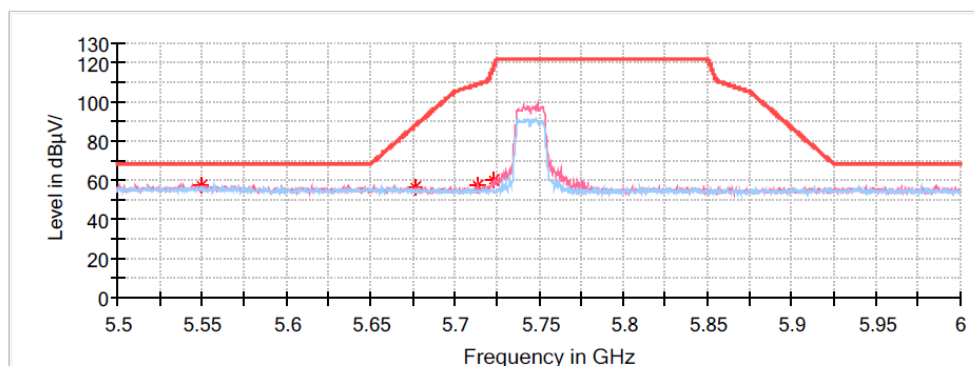
Note:

1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
2. Corrected Amplitude = Corrected Factor + Reading
3. Margin = Limit - Corrected. Amplitude

802.11a Mode:**Common Information**

Project No.:	RSHA250211002
EUT Model:	GC30
Test Mode:	5G WIFI 802.11a mode 5745MHz
Standard:	FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum

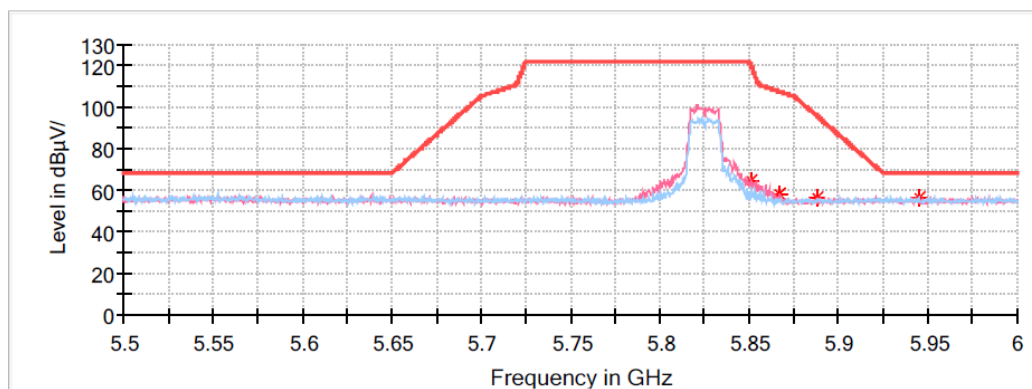
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5549.800000	57.55	---	68.20	10.65	V	9.1
5676.600000	56.55	---	87.88	31.34	V	8.9
5714.000000	56.95	---	109.12	52.17	V	8.9
5723.200000	59.56	---	118.10	58.54	V	8.9

Common Information

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11a mode 5825MHz
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum



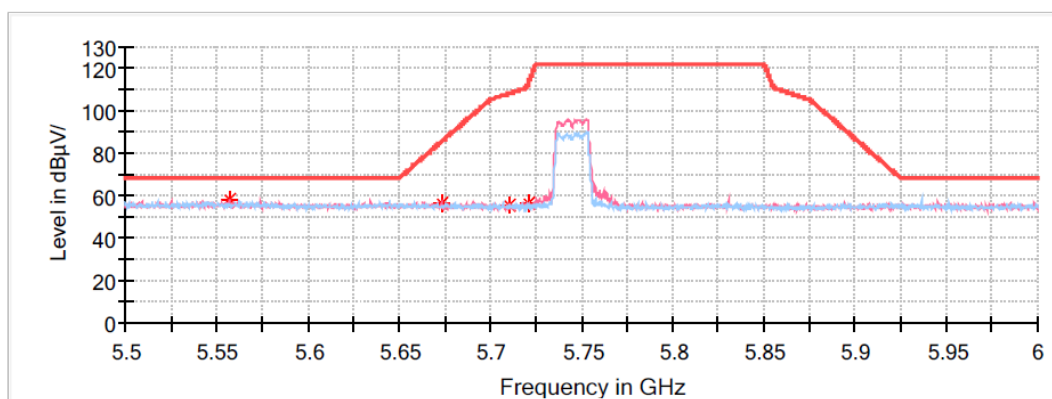
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5851.400000	64.33	---	119.01	54.68	V	8.7
5866.600000	57.85	---	107.55	49.70	V	8.7
5888.200000	56.49	---	95.43	38.94	V	8.7
5945.200000	56.40	---	68.20	11.80	V	8.6

802.11ac20 Mode:**Common Information**

Project No.:	RSHA250211002
EUT Model:	GC30
Test Mode:	5G WIFI 802.11ac20 mode 5745MHz
Standard:	FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

Full Spectrum

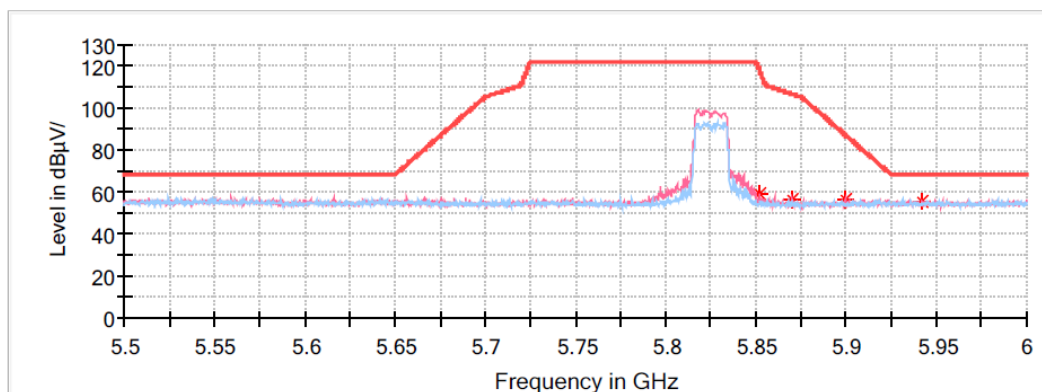
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5556.800000	58.09	---	68.20	10.11	V	9.0
5673.400000	56.53	---	85.52	28.99	V	8.9
5710.000000	55.40	---	108.00	52.60	H	8.9
5721.200000	56.11	---	113.54	57.42	V	8.9

Common Information

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac20 mode 5825MHz
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum



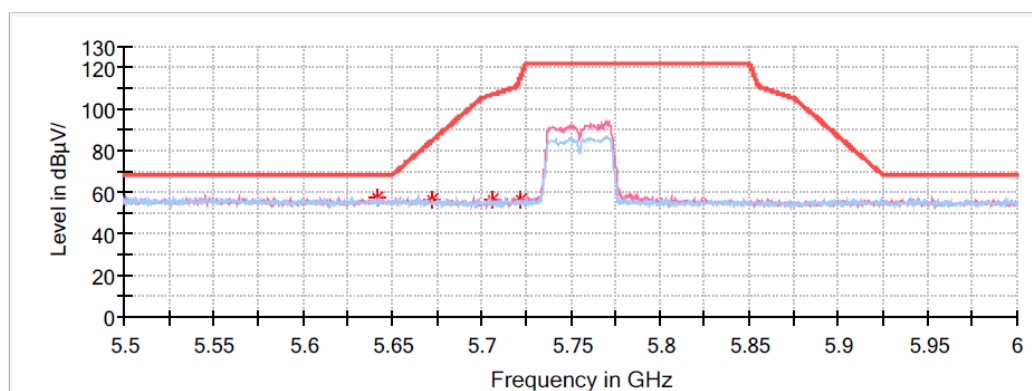
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5852.200000	58.73	---	117.18	58.45	V	8.7
5870.400000	56.03	---	106.49	50.46	V	8.7
5899.200000	56.00	---	87.29	31.29	V	8.7
5942.200000	55.76	---	68.20	12.44	V	8.6

802.11ac40 Mode:**Common Information**

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac40 mode 5755MHz
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum

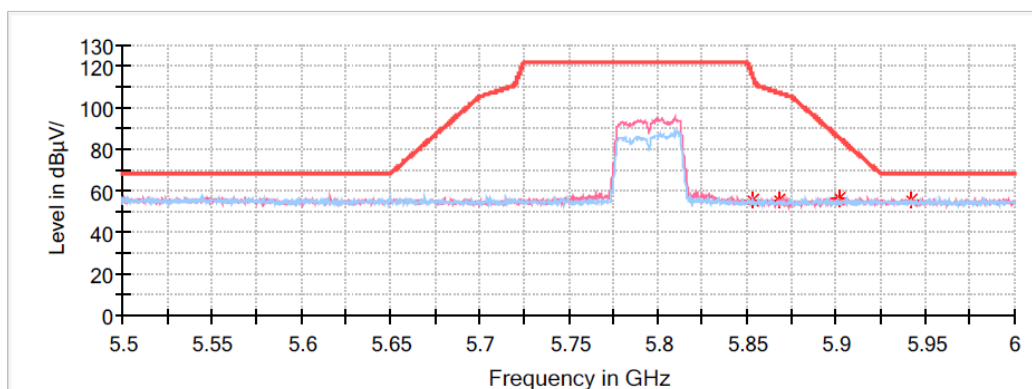
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5641.600000	57.16	---	68.20	11.04	V	9.0
5672.000000	56.55	---	84.48	27.93	V	8.9
5706.200000	56.13	---	106.94	50.81	V	8.9
5722.200000	56.60	---	115.82	59.21	V	8.9

Common Information

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac40 mode 5795MHz
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum



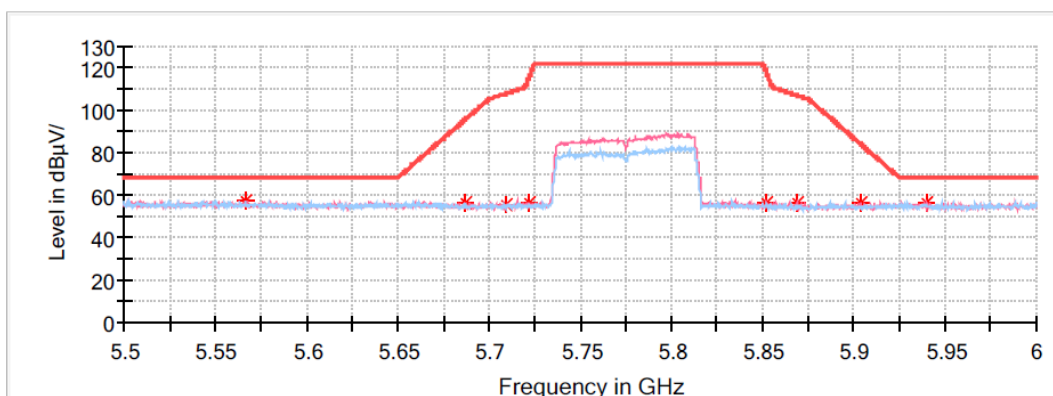
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5852.600000	55.67	---	116.27	60.61	V	8.7
5867.400000	55.08	---	107.33	52.25	V	8.7
5902.000000	56.62	---	85.22	28.60	V	8.7
5941.800000	55.26	---	68.20	12.94	V	8.6

802.11ac80 Mode:**Common Information**

Project No.: RSHA250211002
EUT Model: GC30
Test Mode: 5G WIFI 802.11ac80 mode 5775MHz
Standard: FCC Part 15.407& FCC Part 15.205&FCC Part 15.209
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer: Destine Hu

Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5566.600000	57.58	---	68.20	10.62	H	9.0
5687.200000	56.01	---	95.73	39.71	V	8.9
5709.000000	55.76	---	107.72	51.96	V	8.9
5721.800000	55.92	---	114.90	58.99	V	8.9
5852.400000	55.97	---	116.73	60.75	V	8.7
5868.400000	55.99	---	107.05	51.06	V	8.7
5903.600000	56.19	---	84.04	27.85	V	8.7
5940.200000	56.13	---	68.20	12.07	V	8.6

EMISSION BANDWIDTH**Environmental Conditions & Test Information**

Test Date:	2025-04-11
Temperature:	21.5 °C
Relative Humidity:	49 %
ATM Pressure:	100.9 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant*5150-5250 MHz:*

Test mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11 a	Low	5180	21.166	16.700
	Middle	5200	20.854	16.700
	High	5240	21.012	16.700
802.11 ac20	Low	5180	20.954	17.700
	Middle	5200	21.011	17.700
	High	5240	21.218	17.700
802.11 ac40	Low	5190	44.200	36.500
	High	5230	43.800	36.500
802.11 ac80	Middle	5210	85.200	76.600

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

5725-5850MHz:

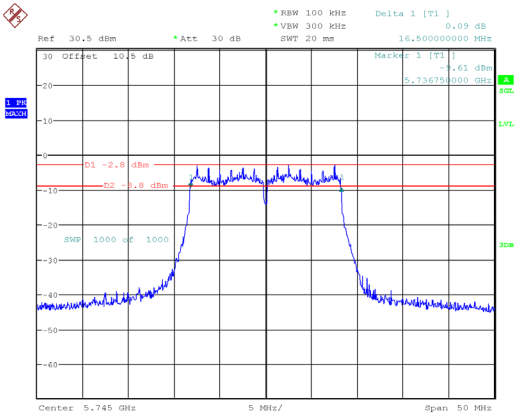
Test mode	Channel	Frequency (MHz)	99% Bandwidth (MHz)
802.11 a	Low	5745	16.70
	Middle	5785	16.70
	High	5825	16.70
802.11 ac20	Low	5745	17.70
	Middle	5785	17.70
	High	5825	17.70
802.11 ac40	Low	5755	36.50
	High	5795	36.60
802.11 ac80	Middle	5775	76.80

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	16.50	0.5
	Middle	5785	16.50	
	High	5825	16.45	
802.11 ac20	Low	5745	17.70	
	Middle	5785	17.70	
	High	5825	17.70	
802.11 ac40	Low	5755	36.30	
	High	5795	36.20	
802.11 ac80	Middle	5775	76.80	

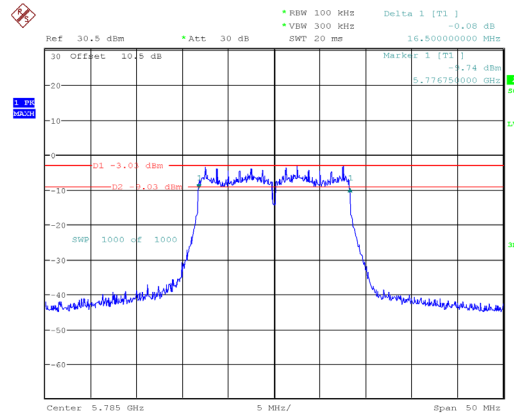
6dB Bandwidth
5725-5850 MHz Band

802.11a mode, 5745MHz



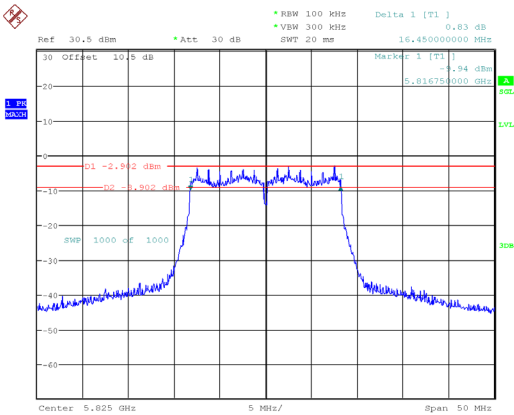
ProjectNo.:RSHA250211002 Tester:Neil Zhou
Date: 11.APR.2025 11:03:48

802.11a mode, 5785MHz



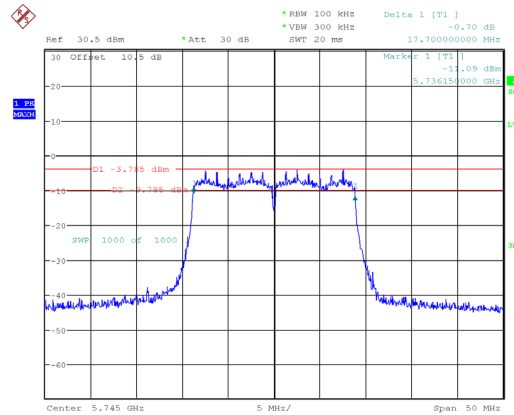
ProjectNo.:RSHA250211002 Tester:Neil Zhou
Date: 11.APR.2025 11:09:00

802.11a mode, 5825MHz



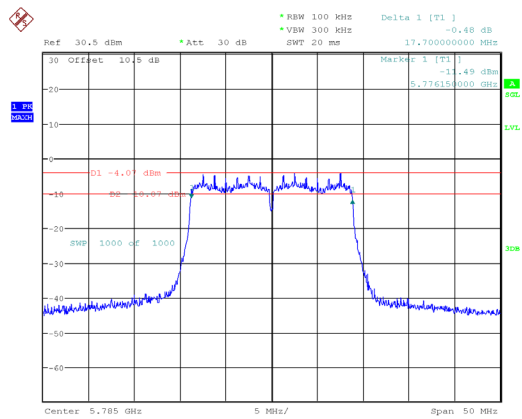
ProjectNo.:RSHA250211002 Tester:Neil Zhou
Date: 11.APR.2025 11:17:31

802.11ac20 mode, 5745MHz



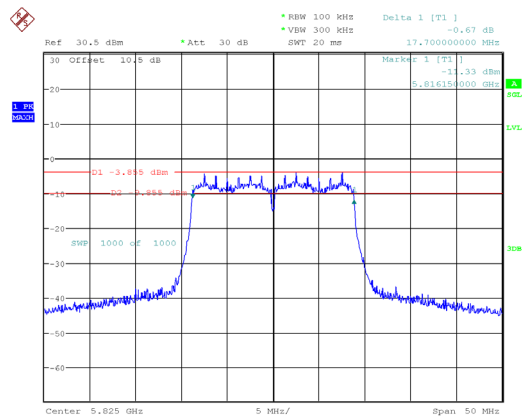
ProjectNo.:RSHA250211002 Tester:Neil Zhou
Date: 11.APR.2025 11:22:09

802.11 ac20 mode, 5785MHz



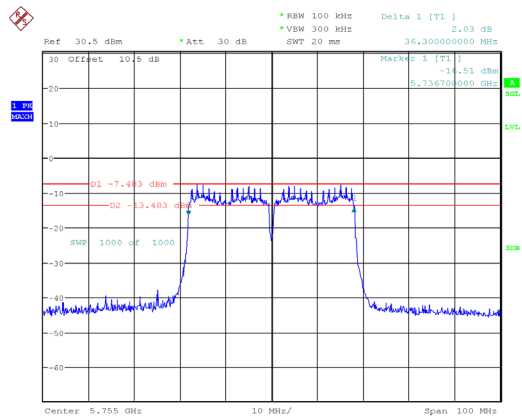
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Date: 11.APR.2025 11:30:48

802.11 ac20 mode, 5825MHz



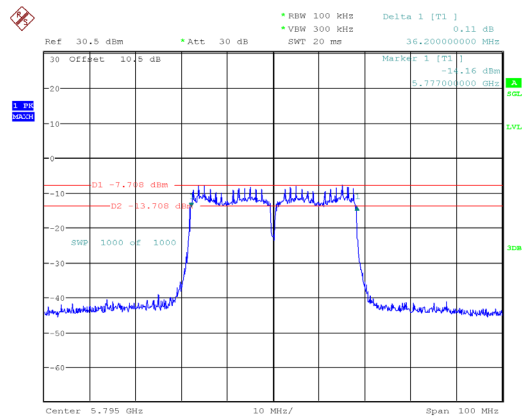
ProjectNo.:RSHA250211002 Tester:Neil Zhou
Date: 11.APR.2025 11:35:02

802.11ac40 mode, 5755MHz



ProjectNo.:RSHA250211002 Tester:Neil Zhou
Date: 11.APR.2025 11:43:20

802.11 ac40 mode, 5795MHz



ProjectNo.:RSHA250211002 Tester:Neil Zhou
Date: 11.APR.2025 11:51:04

Ref 30.5 dBm Att 30 dB SWT 20 ms 76.800000000 MHz

• BW 100 MHz
• VM 300 kHz
• Delta 1 [T1] -1.45 dB

30 Offset 10.5 dB Markers 1 [T1]
-20.76 dBm
5.733600000 GHz

1 1000

D1 -12.001 dBm
D2 -18.881 dBm
SWP 1000 of 1000

Center 5.775 GHz 20 MHz/ Span 200 MHz

ProjectNo.:RSHA250211002 Tester:Neil Zhou
Date: 11.APR.2025 11:59:43