

FCC PART 15.247

TEST REPORT

For

STEINER-Optik GmbH

Dr.-Hans-Frisch-Str. 9 95448 Bayreuth Germany

Tested Model: eRanger LRF 10x42
FCC ID: 2BDTF-ELRF

Report Type: Original Report		Product Name: Laser Range Finder	
Report Number:		RSC240304002-0B	
Date of Report Issue:		2024-04-19	
Reviewed By:		Sula Huang	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	STEINER-Optik GmbH
Address	Dr.-Hans-Frisch-Str. 9 95448 Bayreuth Germany
Email	a.ruf@steiner.de
Product	Laser Range Finder
Tested Model	eRanger LRF 10x42
Multiple Models	ePredator LRF 10x42 (Note: The Multiple models are electrically identical with the test model except for model number. Please refer to the declaration letter for more detail, which was provided by manufacturer.)
FCC ID	2BDTF-ELRF
Frequency	Bluetooth LE (1M): 2402-2480MHz
Modulation Type	Bluetooth LE (1M): GFSK
RF output power	4.27 dBm
Voltage	DC 3.0V Lithium battery
Measure approximately	200 mm (L) x 140 mm (W) x 50 mm (H)
Sample serial number	240304002/01 (RF Radiated Test), 240304002/02 (RF Conducted Test) (assigned by the BACL, Chengdu)
Sample/EUT Status	The test sample was in good condition and received: 2024-03-04

Note: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Objective

This report is prepared on behalf of **STEINER-Optik GmbH** in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communications Commission's rules.

The tests were performed in order to determine the compliance of the EUT with FCC Part 15-Subpart C, section 15.203, 15.205, 15.209 and 15.247 rules.

Measurement Uncertainty

Item		Measurement Uncertainty	U_{cispr}
Radiated Emission	9kHz-30MHz	4.48dB	-
	30MHz-200MHz	H	4.34dB
	30MHz-200MHz	V	4.59dB
	200MHz-1GHz	H	4.69dB
	200MHz-1GHz	V	5.79dB
	1GHz-6GHz	4.58dB	5.2dB
	6GHz-18GHz	4.58dB	5.5dB
	18GHz-40GHz	5.50dB	-

Item	Measurement Uncertainty
RF output power, conducted	$\pm 0.61\text{dB}$
Occupied Bandwidth	$\pm 1.69\%$
Power Spectrum Density, conducted	$\pm 2.52\text{dB}$
Humidity	$\pm 5\%$
Temperature	$\pm 1^\circ\text{C}$
Voltage(DC)	$\pm 0.4\%$
Time	1%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the corresponding inclusion factor K when the inclusion probability is about 95%.

Test Methodology

All measurements contained in this report were conducted with:

1. ANSI C63.10-2020 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.
2. KDB558074 D01 15.247 Meas Guidance v05r02.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Chengdu) to collect test data is located No.5040, Huilongwan Plaza, No. 1, Shawan Road, Jinniu District, Chengdu, Sichuan, China.

Bay Area Compliance Laboratories Corp. (Chengdu) lab is accredited to ISO/IEC 17025 by NVLAP (Lab code: 600346-0) and the FCC designation No.: CN5056. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Description of Test Configuration*

The system was configured in testing mode, which was provided by manufacturer.

For Bluetooth LE mode, 40 channels are provided for testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	...	...
...	...	...	...
...	...	...	...
..	...	38	2478
19	2440	39	2480

EUT was tested with channel 0, 19 and 39.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software*

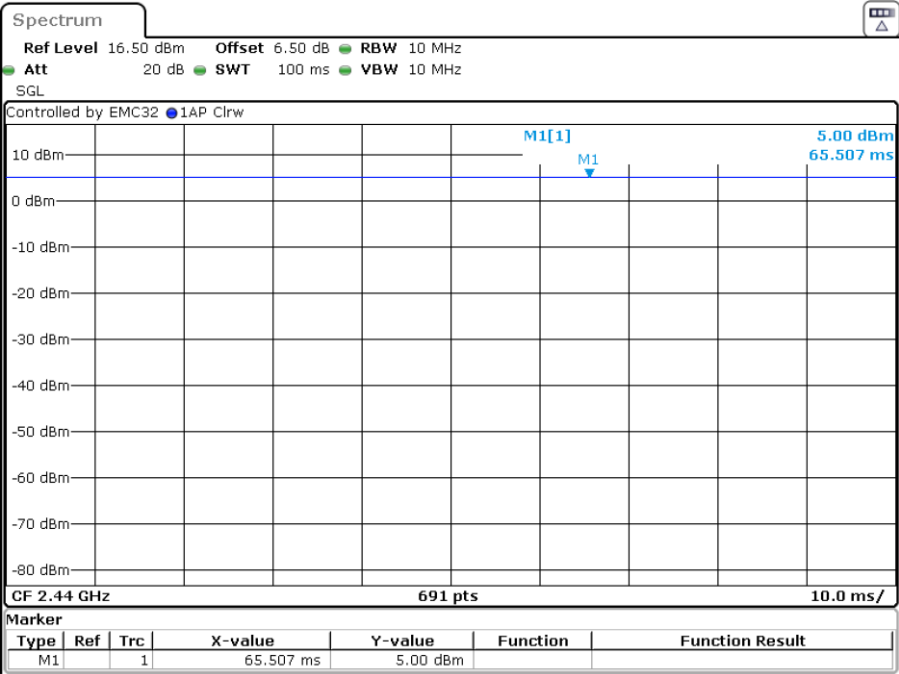
The setting by the software as following table:

Test Mode	Test Software	SmartRF_Studio_7		
LE 1M	Test Frequency	2402MHz	2440MHz	2480MHz
	Data Rate	1Mbps	1Mbps	1Mbps
	Power Level	5	5	5

Duty Cycle information is below:

Mode	T _{on}	T _p	Duty Cycle
	(ms)	(ms)	(%)
LE 1M	100	100	100

Duty Cycle



Project:RSC240304002-0B Tester:Colin Jiang
Date: 18.MAR.2024 16:08:28

Support Test Devices Description

Manufacturer	Device Name	Model	Serial Number
-	-	-	-

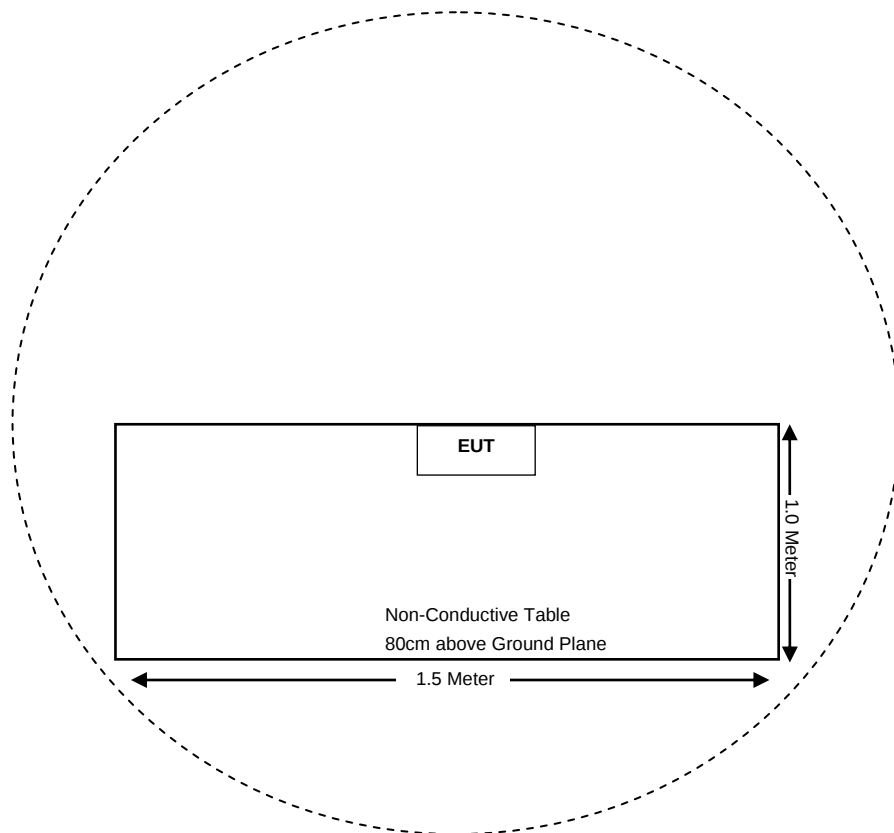
Support Test Cable Description

Cable Description	Length (m)	From / Port	To
-	-	-	-

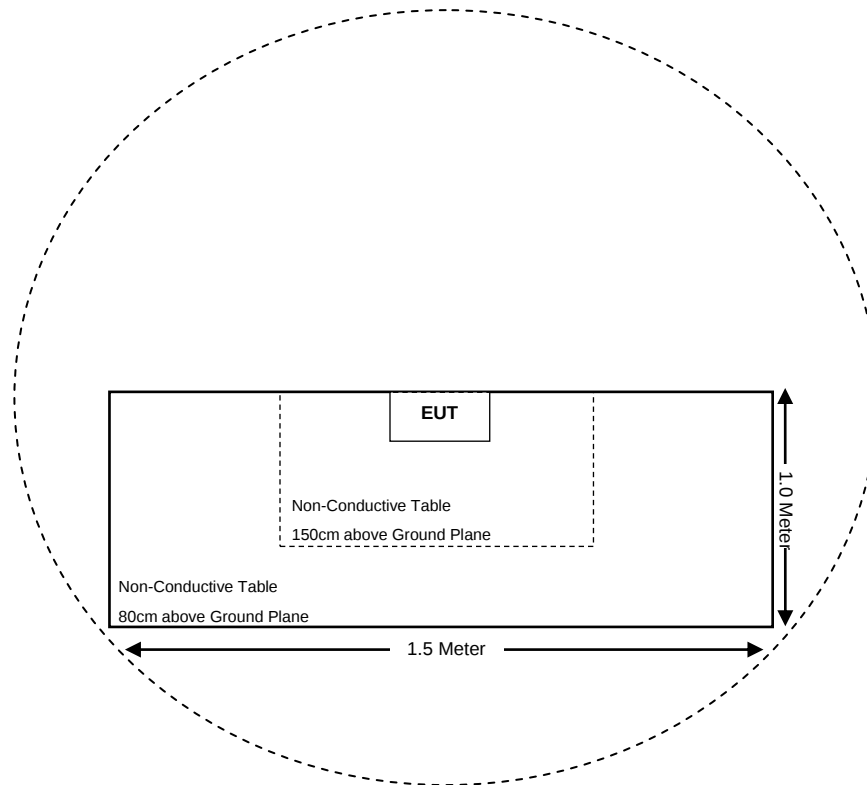
Block Diagram of Test Setup

Spurious Emissions

Below 1GHz:



Above 1GHz:



Note: When it was setup ok. The device can continuously transmitting after remove the fixture and the laptop.

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 & §1.1310 & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Not Applicable
§15.205, §15.209, §15.247(d)	Raidated Spurious Emissions	Compliant
§15.247(d)	Conducted Spurious Emissions at Antenna Terminal	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum conducted output power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

Not Applicable: The device is battery operated equipment.

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

TEST EQUIPMENTS LIST

Manufacturer	Description	Model Number	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions (9kHz-30MHz)					
EMCT	Semi-Anechoic Chamber	966	001	2023-04-15	2028-04-14
Rohde & Schwarz	EMI Test Receiver	ESR3	102456	2024-04-11	2025-04-10
EMCO	Active Loop Antenna	6507	T-E236	2023-08-15	2024-08-14
Xin Hang Xun Wei Bo	RF Cable (Below 1GHz)	XH500A-N/J-N/J-2M-A	T-E271	2023-11-30	2024-11-29
Xin Hang Xun Wei Bo	RF Cable (Below 1GHz)	XH500A-N/J-N/J-7M-A	T-E268	2023-11-30	2024-11-29
Rohde & Schwarz	EMC32	EMC32	V9.10.00	NCR	NCR
Radiated Emissions (30MHz-1GHz)					
EMCT	Semi-Anechoic Chamber	966	001	2023-04-15	2028-04-14
SONOMA INSTRUMENT	Pre-Amplifier	310 N	186684	2023-08-08	2024-08-07
SUNOL SCIENCES	Broadband Antenna	JB3	A121808	2024-01-24	2025-01-23
INMET	Attenuator	18N-6dB	64671	2024-01-24	2025-01-23
Rohde & Schwarz	EMI Test Receiver	ESR3	102456	2024-04-11	2025-04-10
HUBER+SUHENER	RF Cable (Below 1GHz)	L-E-015	MY4345/EA	2023-11-30	2024-11-29
Xin Hang Xun Wei Bo	RF Cable (Below 1GHz)	XH500A-N/J-N/J-2M-A	T-E271	2023-11-30	2024-11-29
Xin Hang Xun Wei Bo	RF Cable (Below 1GHz)	XH500A-N/J-N/J-7M-A	T-E268	2023-11-30	2024-11-29
Rohde & Schwarz	EMC32	EMC32	V9.10.00	NCR	NCR
Radiated Emissions (1GHz-18GHz)					
EMCT	Semi-Anechoic Chamber	966	001	2023-04-15	2028-04-14
Rohde & Schwarz	Spectrum Analyzer	FSU26	200835	2024-04-11	2025-04-10
ETS	Horn Antenna	3115	003-6076	2023-08-16	2024-08-15
A.H. Systems, inc.	Pre-Amplifier	PAM-0118P	509	2023-11-11	2024-11-10
MICRO-TRONICS	2.4GHz Notch Filter	BRM50702	G396	2023-05-19	2024-05-18
Xin Hang Xun Wei Bo	RF Cable (Above 1GHz)	XH500A-SMA/J-N/J-2M-A	L-E-016	2024-01-05	2025-01-04
Xin Hang Xun Wei Bo	RF Cable (Above 1GHz)	XH500A-SMA/J-N/J-5M-A	L-E-017	2024-01-05	2025-01-04
Rohde & Schwarz	EMC32	EMC32	V9.10.00	NCR	NCR

Manufacturer	Description	Model Number	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions (18GHz-26.5GHz)					
EMCT	Semi-Anechoic Chamber	966	001	2023-04-15	2028-04-14
Rohde & Schwarz	Signal Analyzer	FSV40	101943	2024-04-10	2025-04-09
A.H.Systems,inc	Horn Antenna	SAS-574	505	2023-08-14	2024-08-13
A.H.Systems,inc.	Pre-Amplifier	PAM-1840	199	2023-10-16	2024-10-15
HUBER+SUHNER	RF Cable (Above 18GHz)	T-E222	25551/2	2023-10-16	2024-10-15
Rohde & Schwarz	EMC32	EMC32	V9.10.00	NCR	NCR
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSV40	101943	2023-05-12	2024-05-11
MIDWEST	6dB Attenuator	219	AA4305	2024-03-01	2025-03-01
Astrolab	RF Coaxial Cable	MINIREND-5	1206	2023-10-18	2024-10-17
FLUKE	Multimeter	FLUKE 1587	27870099	2023-04-12	2024-04-11

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

FCC §15.247 & §1.1310 & §2.1093 - RF EXPOSURE

Applicable Standard

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

According to KDB447498 D01 General RF Exposure Guidance v06:

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

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

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

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

Measurement Result

The max conducted power including tune-up tolerance is 5.0 dBm (3.16mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 3.16/5 \cdot (\sqrt{2.48}) = 1.0 < 3.0$

So the stand-alone SAR evaluation is not necessary.

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.
- Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Antenna Information*

The EUT has one integral PCB antenna and the maximum antenna gain is 2.31dBi, which fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance

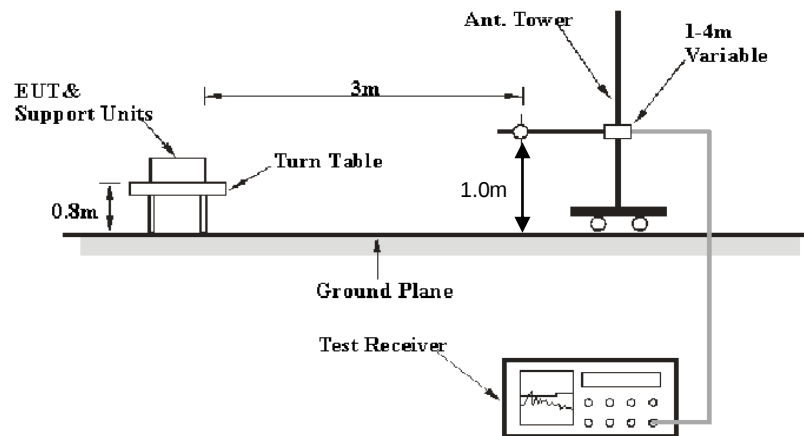
FCC §15.209, §15.205 & §15.247(d) - RADIATED SPURIOUS EMISSIONS & BAND EDGE

Applicable Standard

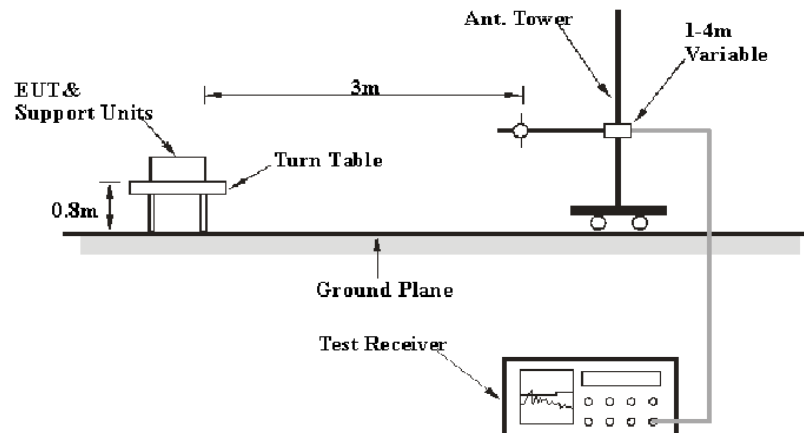
FCC §15.247 (d); §15.209; §15.205;

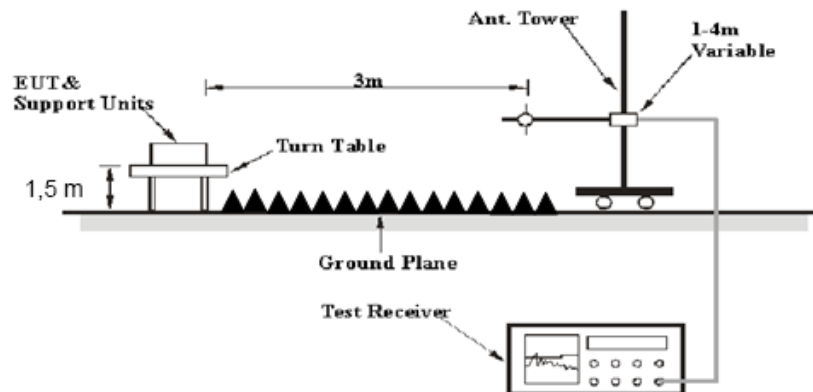
EUT Setup

9kHz - 30MHz:



30MHz - 1GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

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

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 26.5 GHz.

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

Frequency Range	RBW	Video B/W	Duty Cycle	Measurement
9 kHz – 90 kHz	200 Hz	1 kHz	/	AV
90 kHz –110 kHz	200 Hz	1 kHz	/	QP
110 kHz – 150 kHz	200 Hz	1 kHz	/	AV
150 kHz – 490 kHz	9 kHz	30 kHz	/	AV
490 kHz – 30 MHz	9 kHz	30 kHz	/	QP
30 MHz – 1000 MHz	120 kHz	300 kHz	/	QP
Above 1 GHz	1 MHz	3 MHz	Any	PK
	1 MHz	10 Hz	>98%	AV
	1 MHz	1/T	<98%	AV

Note: T is minimum transmission duration.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

The test software EMC 32 setting is as below:

Frequency Range	RBW	Video B/W	Measurement
9 kHz – 150 kHz	200 Hz	1 kHz	PK
150 kHz – 30 MHz	9 kHz	30 kHz	PK
30 MHz – 1000 MHz	120 kHz	300 kHz	PK
Above 1 GHz	1 MHz	3 MHz	PK
	1 MHz	3 MHz	AV

Test Procedure

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

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude (MaxPeak or QuasiPeak)= Meter Reading + Antenna Loss + Cable Loss
- Amplifier Gain

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:

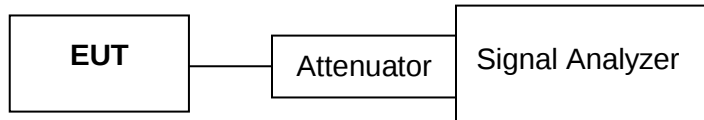
$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Conducted Spurious Emission At Antenna Port:

Connect the antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector.

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum unwanted emissions amplitude level.

Test Setup Block



Test Data

Test Environment Conditions

Test Measurement:	Conducted	Radiated
Test Date:	2024-03-18	2024-04-12
Temperature:	19 °C	21 °C
Relative Humidity:	69 %	56 %
ATM Pressure:	95.8 kPa	96.2 kPa

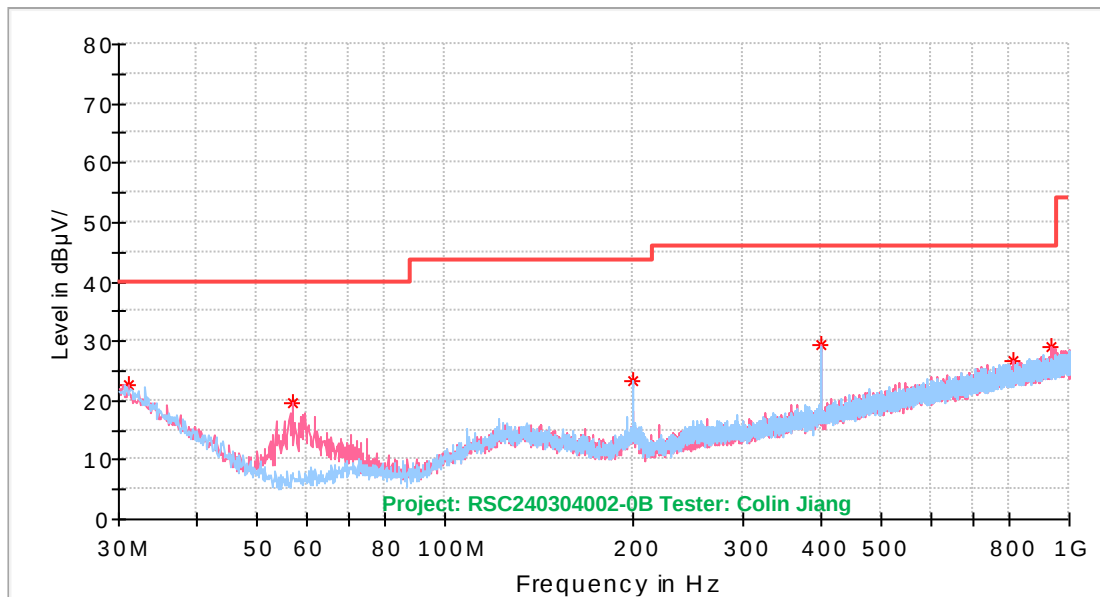
The testing was performed by Colin Jiang.

Test Mode: Transmitting

Note: Pre-scan and configuration EUT with X, Y, Z-axis, the Y-axis is the worst case.

Radiated Spurious Emissions:**1) 9 kHz-30 MHz**

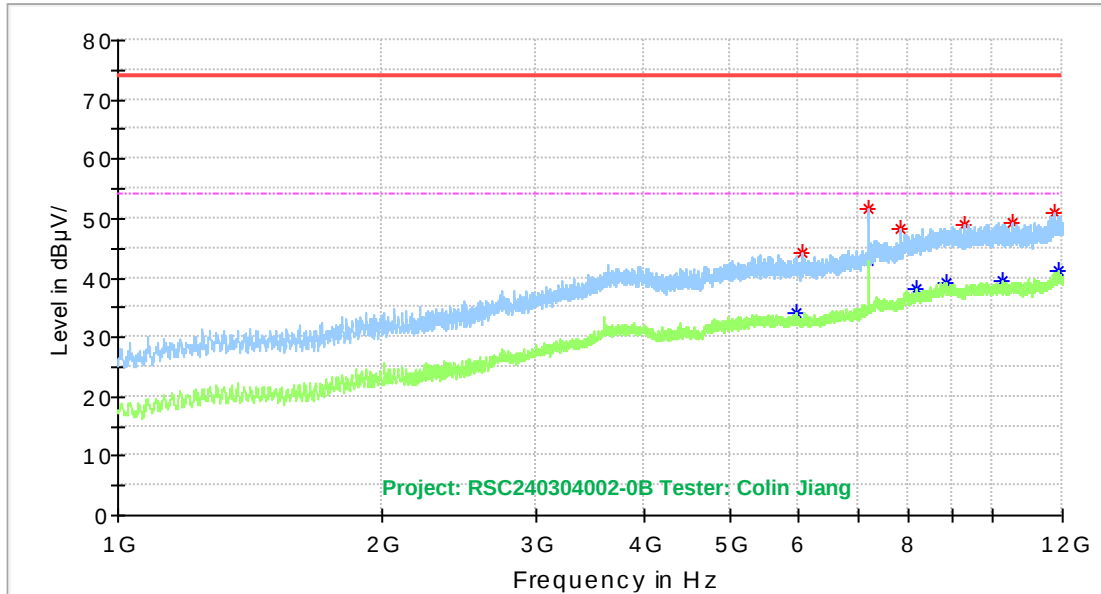
Low channel was tested. The amplitude of spurious emissions attenuated more than 20dB below the permissible value is not required to be report.

2) 30 MHz to 1 GHz_low channel_worst case

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.091250	22.77	40.00	17.23	100.0	V	256.0	-3.9
57.038750	19.44	40.00	20.56	100.0	V	190.0	-18.2
199.992500	23.35	43.50	20.15	100.0	H	201.0	-11.2
400.055000	29.21	46.00	16.79	100.0	V	184.0	-7.7
814.487500	26.77	46.00	19.23	100.0	V	251.0	-0.9
937.435000	28.95	46.00	17.05	100.0	V	246.0	0.9

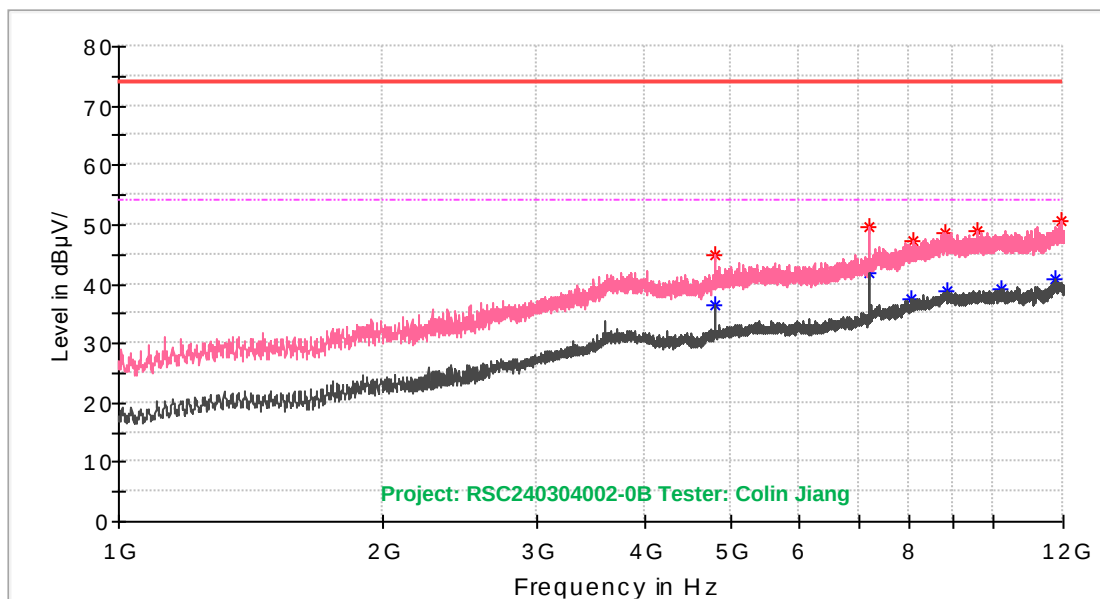
3) 1GHz-12GHz

Low Channel_Horizontal



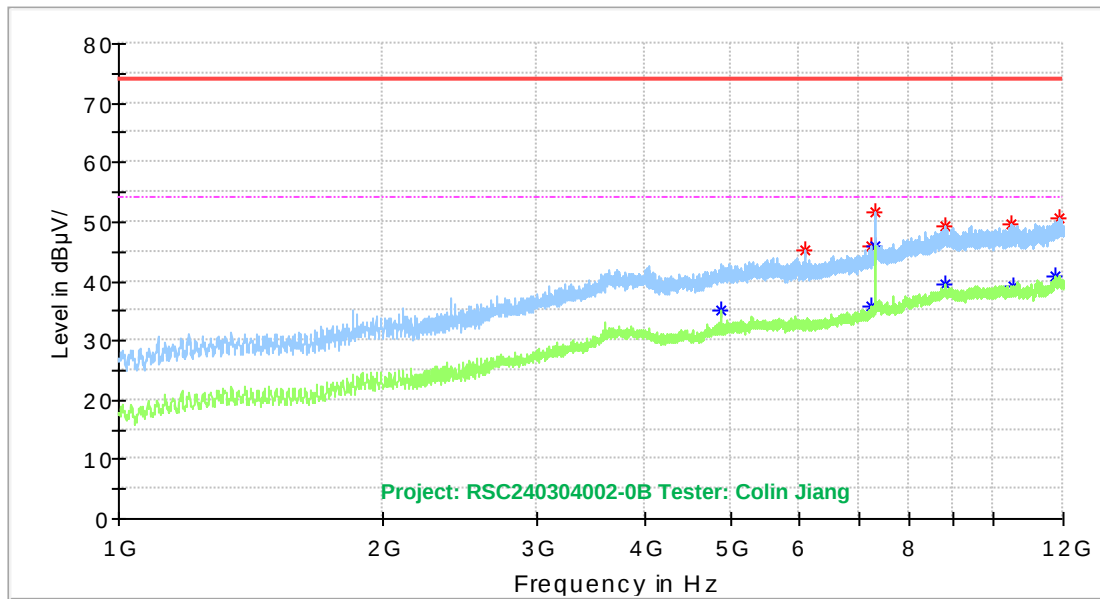
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
5967.600000	---	34.18	54.00	19.82	150.0	H	34.0	-3.8
6042.400000	44.33	---	74.00	29.67	150.0	H	2.0	-3.9
7205.100000	51.75	---	74.00	22.25	150.0	H	135.0	-2.2
7206.200000	---	43.00	54.00	11.00	150.0	H	135.0	-2.2
7818.900000	48.34	---	74.00	25.66	150.0	H	26.0	-0.9
8190.700000	---	38.07	54.00	15.93	150.0	H	6.0	0.3
8825.400000	---	39.16	54.00	14.84	150.0	H	62.0	1.6
9288.500000	48.93	---	74.00	25.07	150.0	H	265.0	1.4
10263.100000	---	39.60	54.00	14.40	150.0	H	251.0	1.9
10529.300000	49.39	---	74.00	24.61	150.0	H	317.0	1.9
11744.800000	50.83	---	74.00	23.17	150.0	H	186.0	3.7
11855.900000	---	41.21	54.00	12.79	150.0	H	215.0	4.3

Low Channel_Vertical



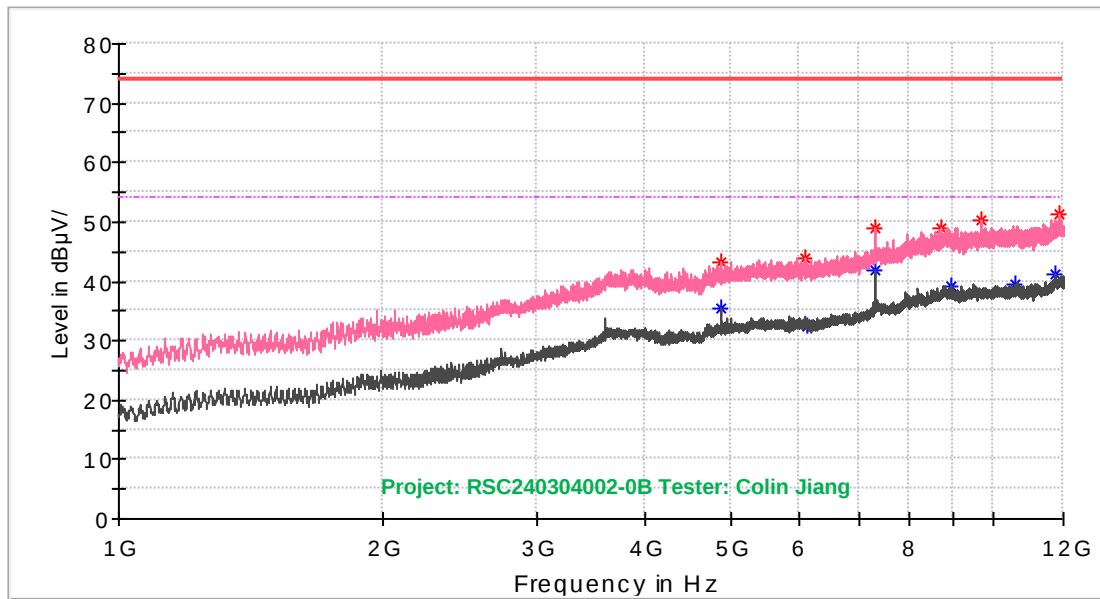
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4803.800000	44.81	---	74.00	29.19	150.0	V	195.0	-5.2
4803.800000	---	36.30	54.00	17.70	150.0	V	195.0	-5.2
7206.200000	---	41.71	54.00	12.29	150.0	V	216.0	-2.2
7207.300000	49.55	---	74.00	24.45	150.0	V	224.0	-2.2
8043.300000	---	37.56	54.00	16.44	150.0	V	101.0	0.1
8087.300000	47.21	---	74.00	26.79	150.0	V	130.0	0.1
8796.800000	48.70	---	74.00	25.30	150.0	V	244.0	1.7
8861.700000	---	38.96	54.00	15.04	150.0	V	137.0	1.5
9554.700000	49.03	---	74.00	24.97	150.0	V	237.0	1.6
10210.300000	---	39.17	54.00	14.83	150.0	V	294.0	1.8
11777.800000	---	40.68	54.00	13.32	150.0	V	332.0	3.7
11941.700000	50.80	---	74.00	23.20	150.0	V	265.0	4.5

Middle Channel_Horizontal



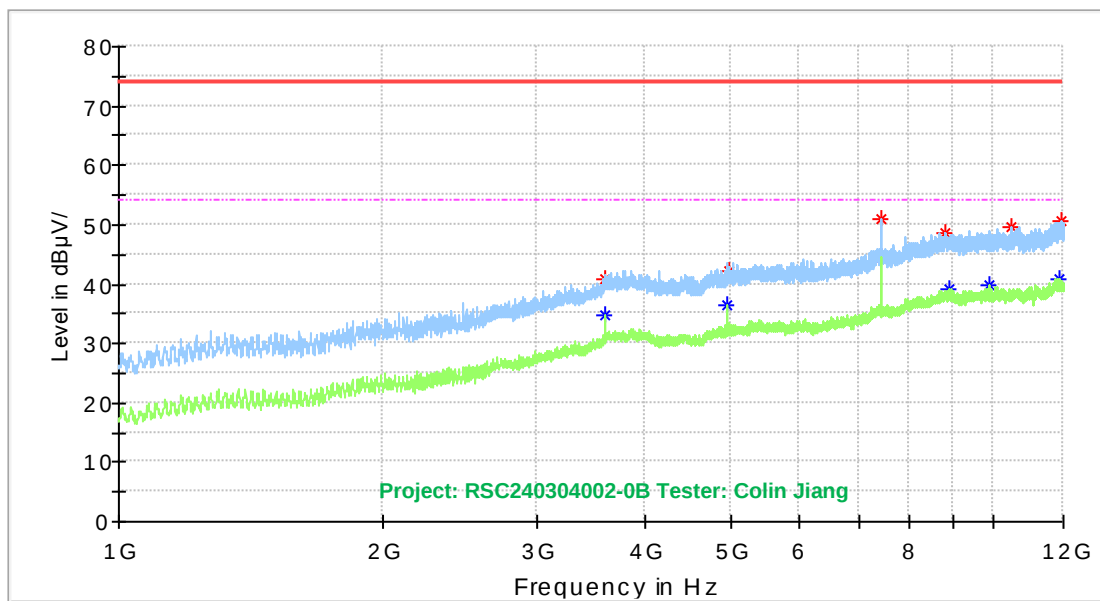
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4879.700000	---	34.98	54.00	19.02	150.0	H	140.0	-5.1
6089.700000	45.32	---	74.00	28.68	150.0	H	120.0	-3.9
7221.600000	46.05	---	74.00	27.95	150.0	H	345.0	-2.1
7241.400000	---	35.70	54.00	18.30	150.0	H	304.0	-2.0
7319.500000	51.64	---	74.00	22.36	150.0	H	126.0	-1.5
7320.600000	---	45.78	54.00	8.22	150.0	H	126.0	-1.5
8785.800000	49.36	---	74.00	24.64	150.0	H	310.0	1.7
8796.800000	---	39.33	54.00	14.67	200.0	H	64.0	1.7
10469.900000	49.69	---	74.00	24.31	150.0	H	233.0	2.0
10524.900000	---	39.27	54.00	14.73	200.0	H	24.0	1.9
11738.200000	---	40.89	54.00	13.11	200.0	H	121.0	3.6
11901.000000	50.61	---	74.00	23.39	200.0	H	144.0	4.1

Middle Channel_Vertical



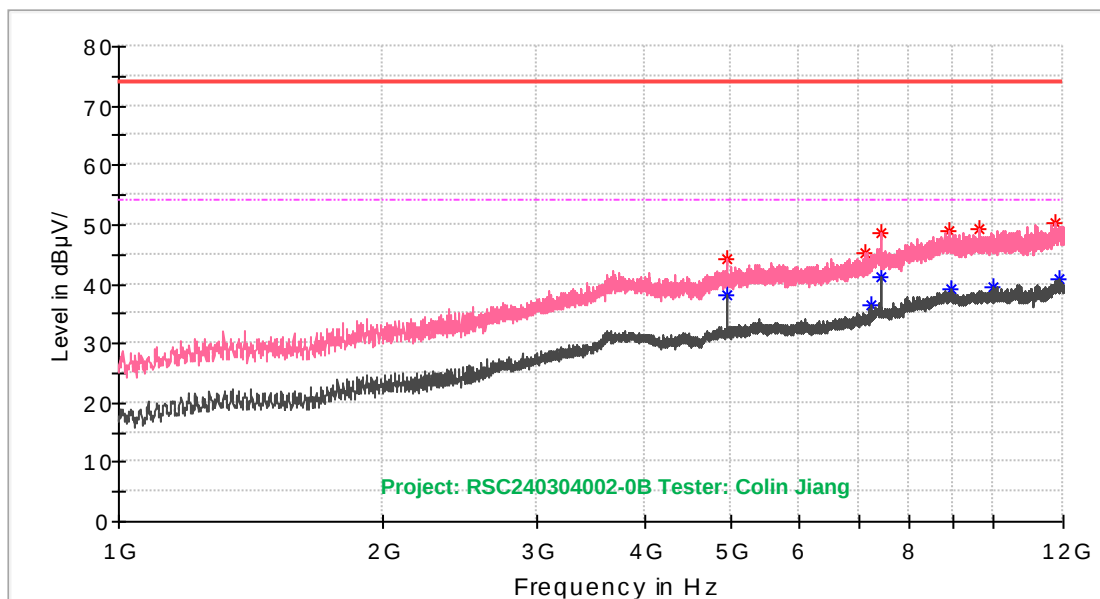
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4879.700000	---	35.55	54.00	18.45	150.0	V	176.0	-5.1
4880.800000	43.35	---	74.00	30.65	150.0	V	206.0	-5.1
6087.500000	43.97	---	74.00	30.03	150.0	V	77.0	-3.9
6116.100000	---	32.43	54.00	21.57	150.0	V	70.0	-3.9
7319.500000	48.94	---	74.00	25.06	100.0	V	213.0	-1.5
7319.500000	---	41.75	54.00	12.25	100.0	V	213.0	-1.5
8698.900000	49.09	---	74.00	24.91	100.0	V	346.0	1.4
8942.000000	---	39.25	54.00	14.75	150.0	V	112.0	1.2
9666.900000	50.37	---	74.00	23.63	150.0	V	119.0	1.6
10553.500000	---	39.48	54.00	14.52	150.0	V	105.0	2.1
11742.600000	---	41.11	54.00	12.89	150.0	V	56.0	3.7
11864.700000	51.16	---	74.00	22.84	100.0	V	269.0	4.3

High Channel_Horizontal



Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3591.600000	40.93	---	74.00	33.07	200.0	H	197.0	-6.3
3599.300000	---	34.89	54.00	19.11	200.0	H	0.0	-6.1
4960.000000	---	36.55	54.00	17.45	150.0	H	132.0	-4.7
4977.600000	42.35	---	74.00	31.65	150.0	H	239.0	-4.8
7439.400000	---	44.56	54.00	9.44	150.0	H	124.0	-1.3
7439.400000	50.97	---	74.00	23.03	150.0	H	124.0	-1.3
8808.900000	48.71	---	74.00	25.29	150.0	H	224.0	1.7
8903.500000	---	39.32	54.00	14.68	200.0	H	6.0	1.6
9859.400000	---	39.68	54.00	14.32	150.0	H	224.0	1.6
10475.400000	49.71	---	74.00	24.29	150.0	H	224.0	1.9
11862.500000	---	41.00	54.00	13.00	150.0	H	319.0	4.3
11931.800000	50.47	---	74.00	23.53	150.0	H	50.0	4.4

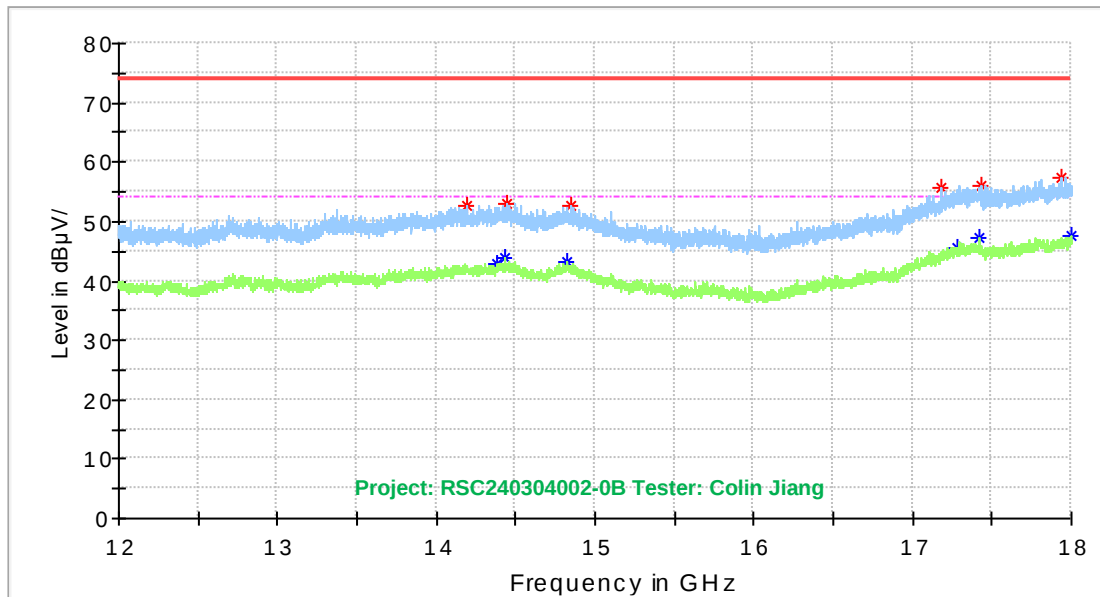
High Channel_Vertical



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4960.000000	---	37.98	54.00	16.02	150.0	V	186.0	-4.7
4960.000000	44.35	---	74.00	29.65	150.0	V	186.0	-4.7
7125.900000	45.23	---	74.00	28.77	150.0	V	172.0	-2.4
7240.300000	---	36.53	54.00	17.47	150.0	V	157.0	-2.0
7440.500000	---	41.11	54.00	12.89	150.0	V	334.0	-1.3
7440.500000	48.59	---	74.00	25.41	150.0	V	334.0	-1.3
8906.800000	49.00	---	74.00	25.00	150.0	V	81.0	1.6
8918.900000	---	39.08	54.00	14.92	150.0	V	39.0	1.4
9628.400000	49.28	---	74.00	24.72	150.0	V	110.0	1.5
9978.200000	---	39.44	54.00	14.56	150.0	V	0.0	1.5
11720.600000	50.34	---	74.00	23.66	150.0	V	110.0	3.3
11847.100000	---	40.71	54.00	13.29	150.0	V	81.0	4.3

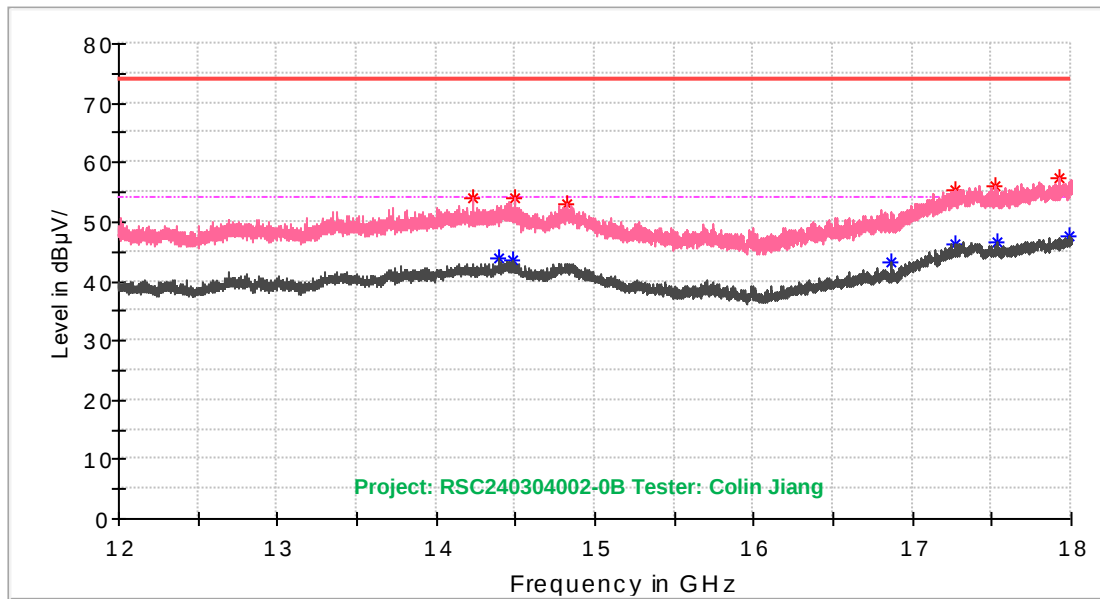
4) 12GHz-18GHz

Low Channel_Horizontal



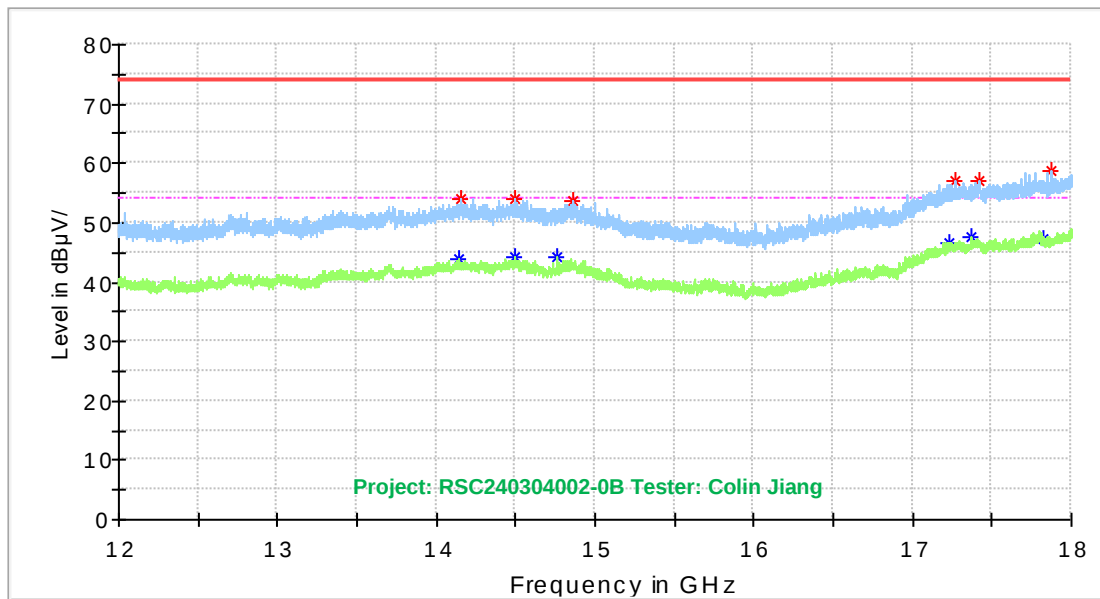
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
14194.200000	52.61	---	74.00	21.39	150.0	H	38.0	7.2
14388.600000	---	43.02	54.00	10.98	150.0	H	183.0	7.0
14436.000000	---	43.93	54.00	10.07	150.0	H	0.0	7.1
14448.600000	53.11	---	74.00	20.89	150.0	H	295.0	7.1
14826.000000	---	43.06	54.00	10.94	150.0	H	211.0	7.1
14849.400000	52.53	---	74.00	21.47	150.0	H	66.0	7.1
17184.600000	55.57	---	74.00	18.43	150.0	H	0.0	9.7
17281.200000	---	45.64	54.00	8.36	150.0	H	266.0	10.5
17418.000000	---	47.11	54.00	6.89	150.0	H	100.0	10.4
17434.800000	56.09	---	74.00	17.91	150.0	H	245.0	10.0
17937.600000	57.52	---	74.00	16.48	150.0	H	80.0	11.2
17994.000000	---	47.71	54.00	6.29	150.0	H	232.0	11.7

Low Channel_Vertical



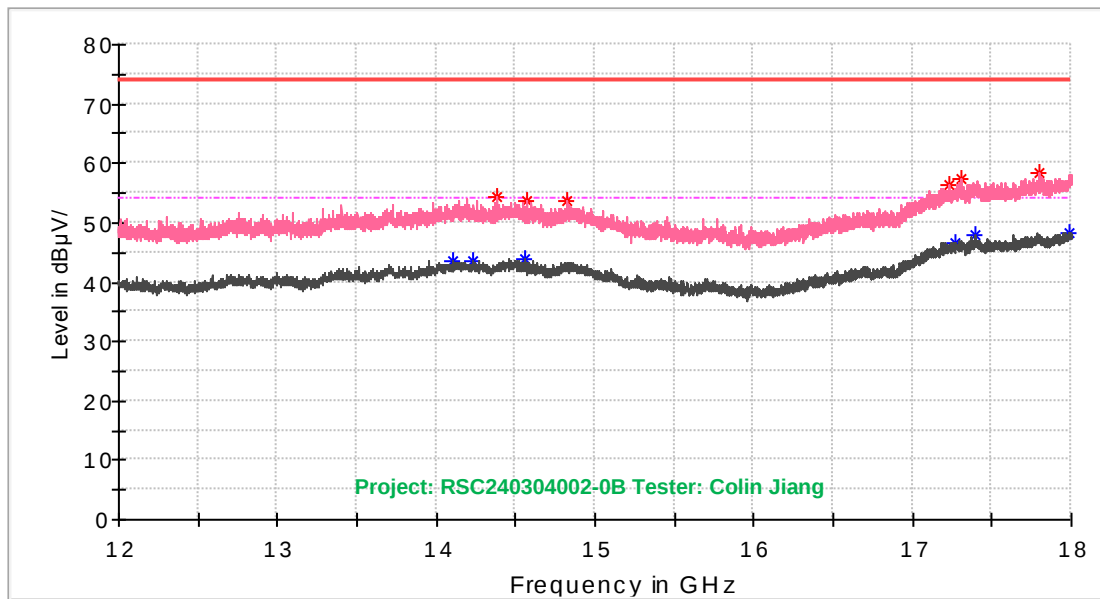
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
14233.800000	53.91	---	74.00	20.09	150.0	V	321.0	7.1
14398.800000	---	43.92	54.00	10.08	150.0	V	221.0	7.1
14489.400000	---	43.45	54.00	10.55	150.0	V	159.0	7.4
14491.200000	54.04	---	74.00	19.96	150.0	V	113.0	7.4
14826.000000	53.15	---	74.00	20.85	150.0	V	341.0	7.1
16866.600000	---	43.31	54.00	10.69	150.0	V	88.0	5.8
17272.200000	---	46.37	54.00	7.63	150.0	V	98.0	10.4
17274.000000	55.41	---	74.00	18.59	150.0	V	341.0	10.5
17526.600000	56.11	---	74.00	17.89	150.0	V	88.0	9.9
17535.600000	---	46.69	54.00	7.31	150.0	V	186.0	9.9
17920.200000	57.23	---	74.00	16.77	150.0	V	172.0	11.3
17990.400000	---	47.74	54.00	6.26	150.0	V	265.0	11.7

Middle Channel_Horizontal



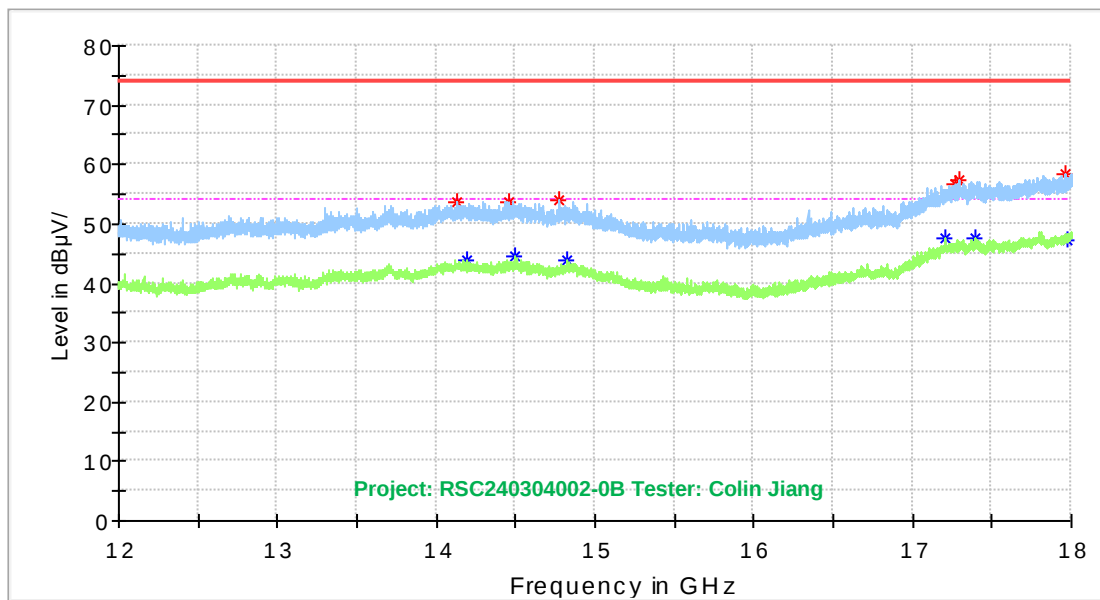
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
14146.800000	---	43.82	54.00	10.18	150.0	H	359.0	7.2
14159.400000	53.93	---	74.00	20.07	150.0	H	114.0	7.2
14493.600000	---	44.14	54.00	9.86	200.0	H	8.0	7.4
14500.800000	54.02	---	74.00	19.98	150.0	H	128.0	7.4
14755.800000	---	44.09	54.00	9.91	150.0	H	280.0	7.3
14862.600000	53.72	---	74.00	20.28	150.0	H	128.0	7.0
17226.000000	---	46.66	54.00	7.34	150.0	H	78.0	10.1
17265.600000	56.91	---	74.00	17.09	150.0	H	99.0	10.4
17370.000000	---	47.50	54.00	6.50	150.0	H	177.0	10.4
17422.800000	56.91	---	74.00	17.09	200.0	H	15.0	10.3
17823.600000	---	47.27	54.00	6.73	150.0	H	232.0	11.0
17879.400000	58.74	---	74.00	15.26	150.0	H	0.0	11.0

Middle Channel_Vertical



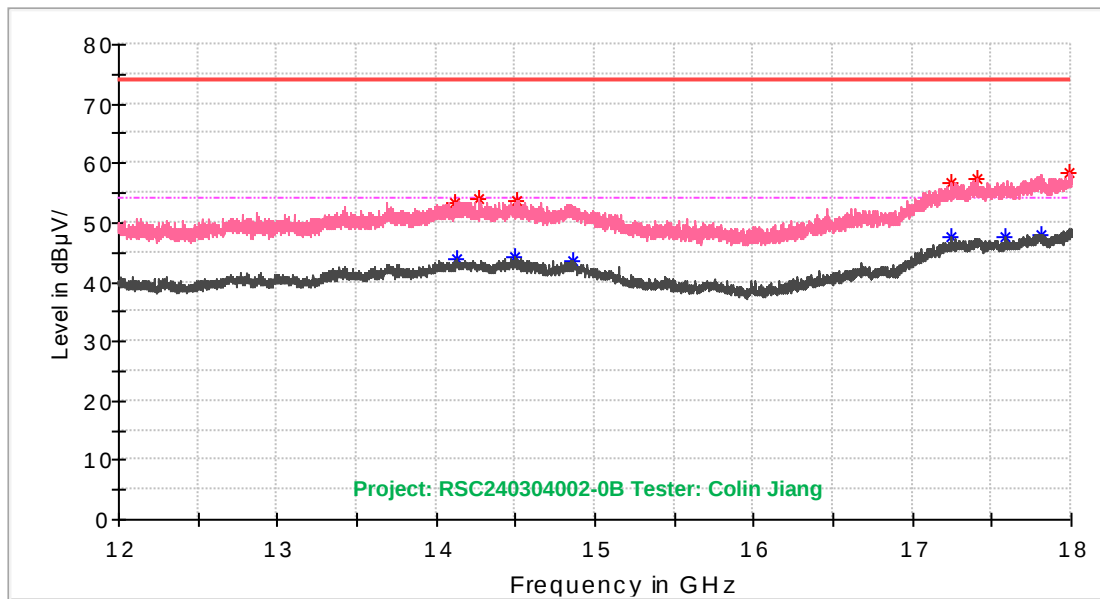
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
14109.000000	---	43.68	54.00	10.32	200.0	V	275.0	7.2
14236.200000	---	43.48	54.00	10.52	150.0	V	292.0	7.1
14383.200000	54.47	---	74.00	19.53	150.0	V	0.0	7.0
14562.600000	---	43.84	54.00	10.16	200.0	V	82.0	7.3
14568.600000	53.68	---	74.00	20.32	200.0	V	110.0	7.4
14824.800000	53.62	---	74.00	20.38	200.0	V	104.0	7.1
17226.600000	56.23	---	74.00	17.77	150.0	V	0.0	10.1
17269.200000	---	46.70	54.00	7.30	200.0	V	17.0	10.4
17307.600000	57.26	---	74.00	16.74	150.0	V	354.0	10.6
17394.600000	---	47.94	54.00	6.06	200.0	V	68.0	10.7
17802.000000	58.35	---	74.00	15.65	200.0	V	0.0	11.3
17989.800000	---	48.00	54.00	6.00	150.0	V	0.0	11.7

High Channel_Horizontal



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
14135.400000	53.78	---	74.00	20.22	150.0	H	215.0	7.2
14187.600000	---	43.90	54.00	10.10	150.0	H	229.0	7.2
14452.200000	53.77	---	74.00	20.23	150.0	H	0.0	7.1
14494.800000	---	44.52	54.00	9.48	150.0	H	1.0	7.4
14772.000000	53.89	---	74.00	20.11	150.0	H	50.0	7.3
14827.200000	---	43.97	54.00	10.03	200.0	H	110.0	7.1
17205.600000	---	47.66	54.00	6.34	200.0	H	286.0	10.0
17275.200000	56.69	---	74.00	17.31	150.0	H	79.0	10.5
17296.200000	57.50	---	74.00	16.50	150.0	H	331.0	10.6
17397.000000	---	47.75	54.00	6.25	150.0	H	338.0	10.7
17959.200000	58.45	---	74.00	15.55	150.0	H	208.0	11.3
17970.600000	---	47.24	54.00	6.76	150.0	H	193.0	11.4

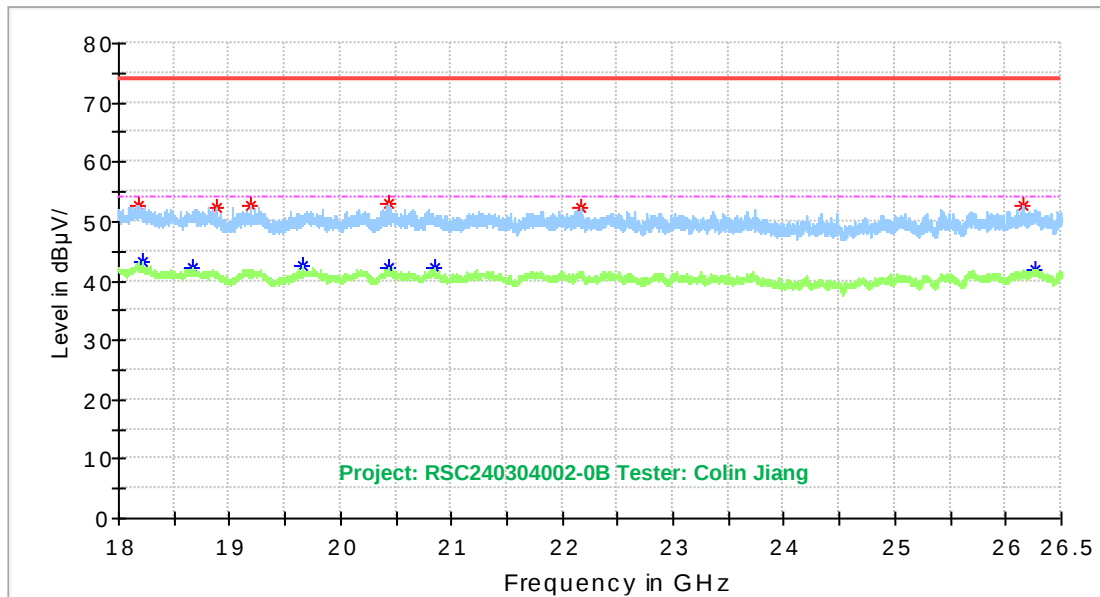
High Channel_Vertical



Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
14112.000000	53.42	---	74.00	20.58	200.0	V	0.0	7.2
14130.000000	---	43.85	54.00	10.15	150.0	V	84.0	7.2
14272.800000	54.01	---	74.00	19.99	150.0	V	247.0	7.1
14497.200000	---	44.08	54.00	9.92	200.0	V	37.0	7.4
14511.000000	53.60	---	74.00	20.40	150.0	V	350.0	7.4
14857.200000	---	43.59	54.00	10.41	150.0	V	120.0	7.1
17238.600000	---	47.46	54.00	6.54	150.0	V	200.0	10.2
17244.000000	56.82	---	74.00	17.18	200.0	V	1.0	10.2
17406.600000	57.23	---	74.00	16.77	200.0	V	1.0	10.6
17579.400000	---	47.62	54.00	6.38	200.0	V	159.0	9.9
17808.600000	---	47.87	54.00	6.13	200.0	V	23.0	11.2
17992.200000	58.35	---	74.00	15.65	150.0	V	0.0	11.7

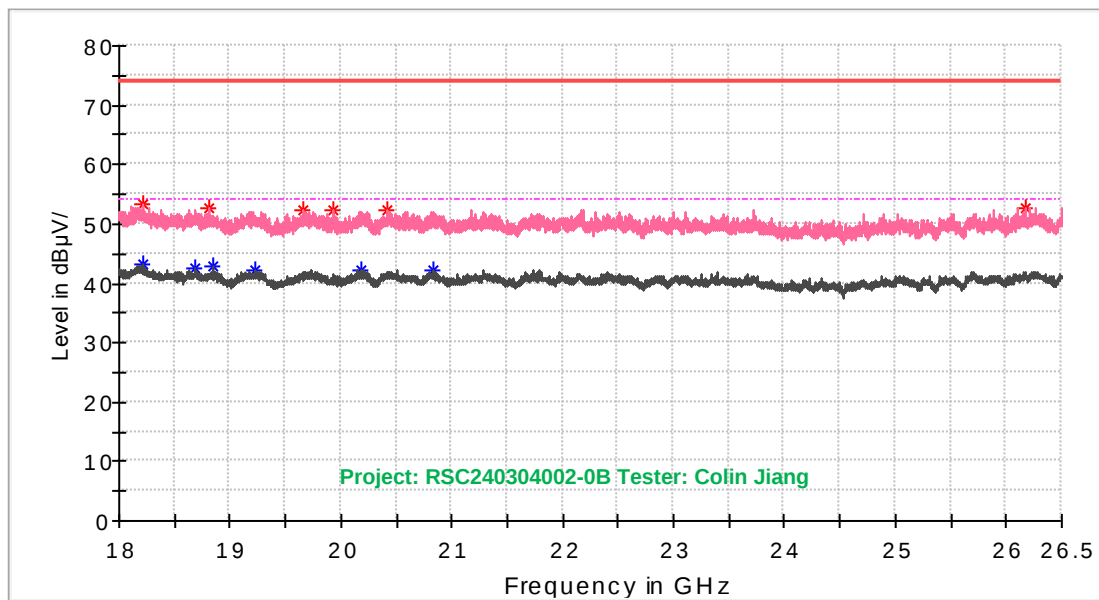
5) 18GHz-26.5GHz_Low Channel

Horizontal

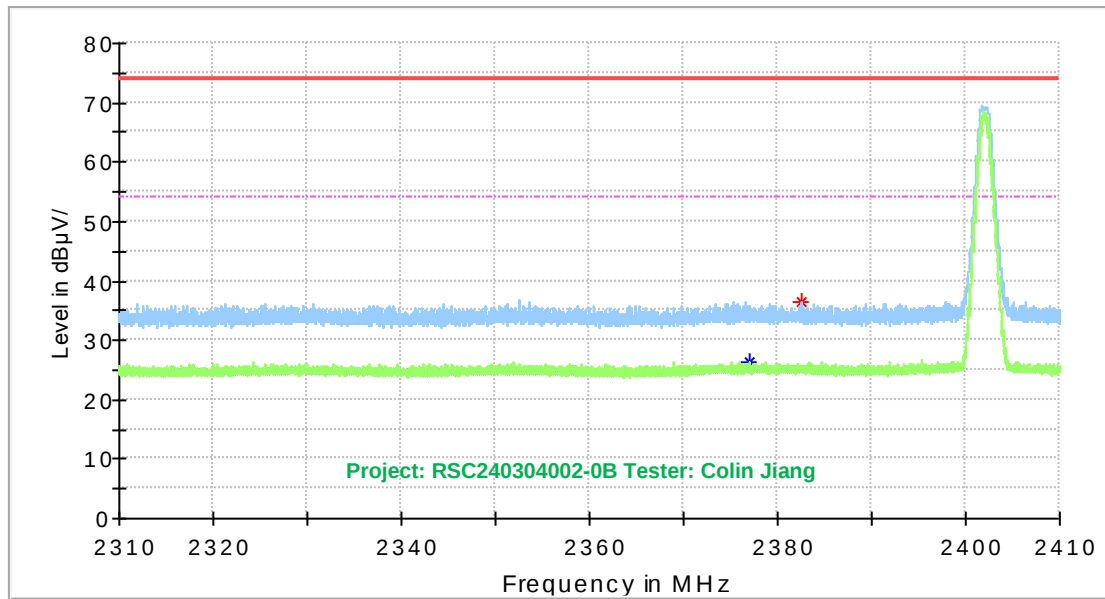


Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
18175.312500	52.79	---	74.00	21.21	100.0	H	275.0	6.2
18217.812500	---	43.25	54.00	10.75	100.0	H	283.0	6.2
18673.625000	---	42.12	54.00	11.88	100.0	H	358.0	5.7
18875.500000	52.41	---	74.00	21.59	100.0	H	244.0	6.1
19192.125000	52.72	---	74.00	21.28	100.0	H	264.0	5.7
19662.812500	---	42.61	54.00	11.39	100.0	H	114.0	6.5
20439.500000	53.11	---	74.00	20.89	100.0	H	264.0	6.3
20442.687500	---	42.14	54.00	11.86	100.0	H	33.0	6.3
20843.250000	---	42.07	54.00	11.93	100.0	H	126.0	6.4
22167.125000	52.21	---	74.00	21.79	100.0	H	180.0	6.7
26153.625000	52.62	---	74.00	21.38	100.0	H	287.0	8.0
26256.687500	---	42.00	54.00	12.00	100.0	H	130.0	8.2

Vertical

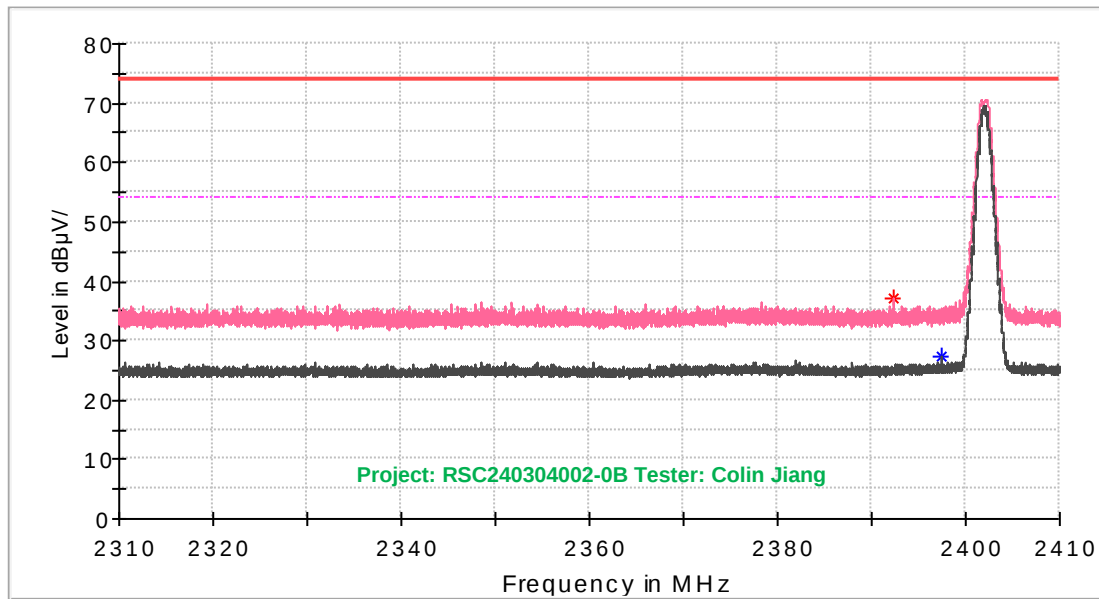


Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
18208.250000	53.33	---	74.00	20.67	100.0	V	205.0	6.2
18221.000000	---	43.06	54.00	10.94	100.0	V	82.0	6.2
18680.000000	---	42.38	54.00	11.62	100.0	V	100.0	5.7
18818.125000	52.53	---	74.00	21.47	100.0	V	52.0	5.8
18848.937500	---	42.71	54.00	11.29	100.0	V	283.0	6.0
19232.500000	---	42.28	54.00	11.72	100.0	V	156.0	5.9
19653.250000	52.34	---	74.00	21.66	100.0	V	145.0	6.5
19924.187500	52.40	---	74.00	21.60	100.0	V	197.0	6.5
20191.937500	---	42.32	54.00	11.68	100.0	V	160.0	6.8
20417.187500	52.35	---	74.00	21.65	100.0	V	52.0	6.3
20831.562500	---	42.31	54.00	11.69	100.0	V	201.0	6.4
26169.562500	52.75	---	74.00	21.25	100.0	V	209.0	8.1

Band Edge:**Left_Horizontal**

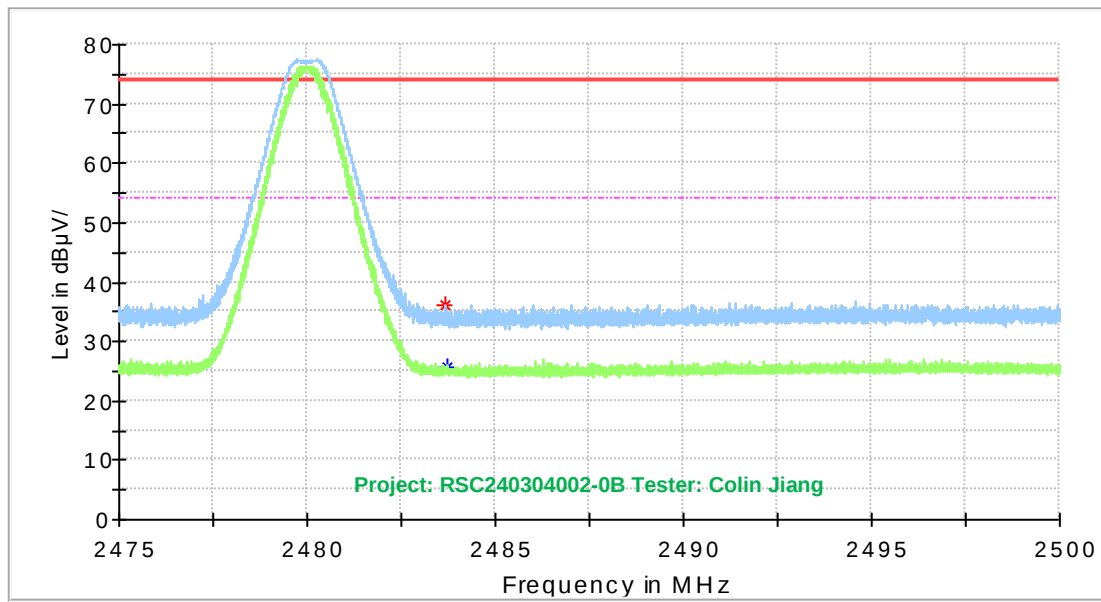
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2376.960000	---	26.49	54.00	27.51	150.0	H	275.0	-12.5
2382.630000	36.41	---	74.00	37.59	150.0	H	56.0	-12.4

Left_Vertical



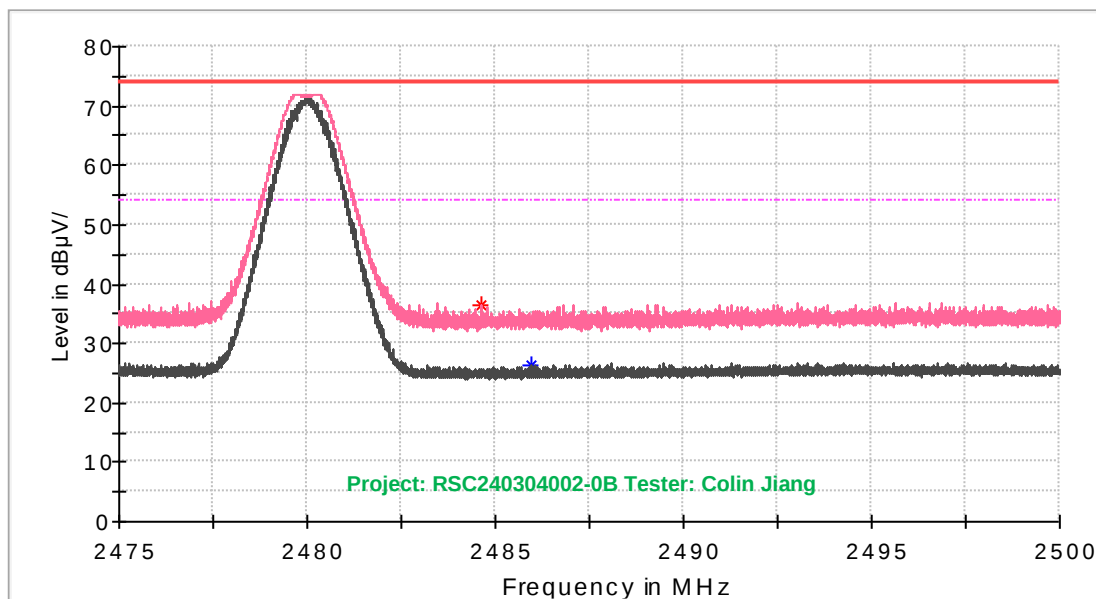
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2392.320000	37.18	---	74.00	36.82	108.0	V	292.0	-12.4
2397.360000	---	27.18	54.00	26.82	108.0	V	216.0	-12.3

Right_Horizontal



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2483.692500	36.24	---	74.00	37.76	136.0	H	230.0	-12.4
2483.697500	---	25.69	54.00	28.31	136.0	H	194.0	-12.4

Right_Vertical



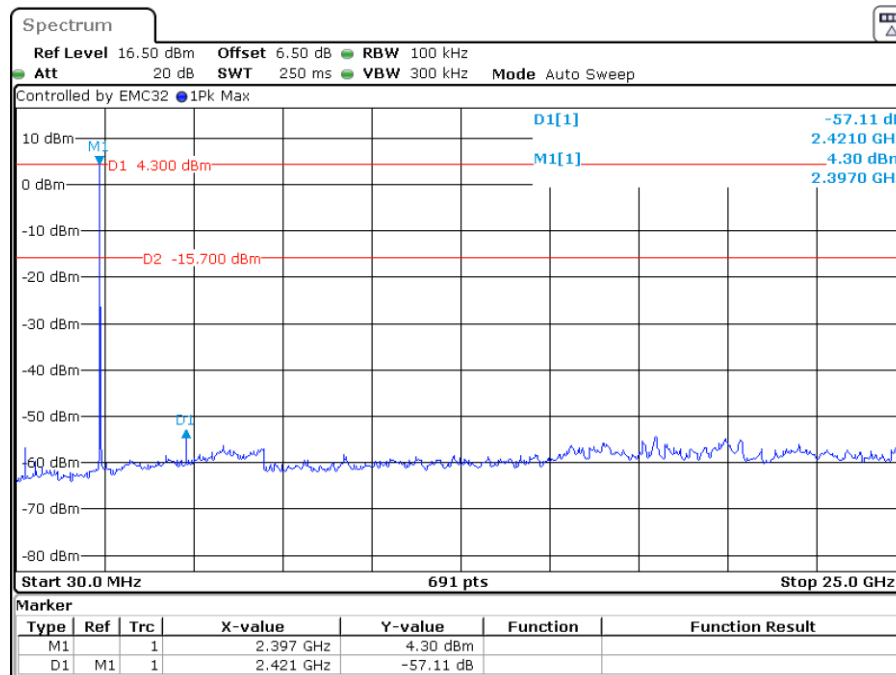
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2484.647500	36.49	---	74.00	37.51	163.0	V	161.0	-12.4
2485.945000	---	26.48	54.00	27.52	163.0	V	96.0	-12.4

Note:

Corrected Amplitude (MaxPeak or QuasiPeak) = Corrected Factor + Reading

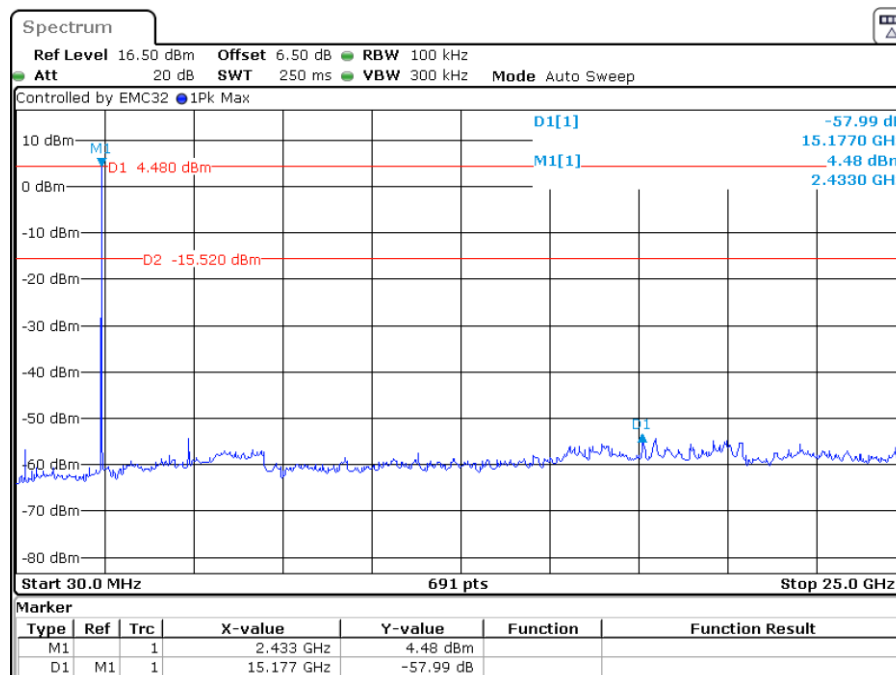
Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor or Antenna factor (RX) + Cable Loss

Margin = Limit- Corr. Amplitude

Conducted Spurious Emission At Antenna Port:**Low Channel**

Project:RSC240304002-0B Tester:Colin Jiang

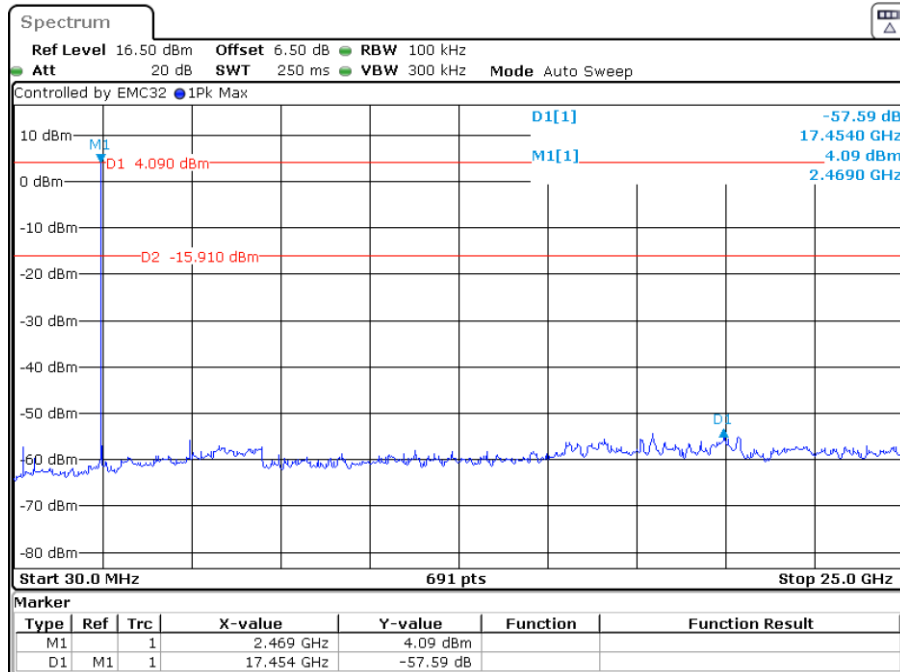
Date: 18.MAR.2024 16:01:06

Middle Channel

Project:RSC240304002-0B Tester:Colin Jiang

Date: 18.MAR.2024 15:58:23

High Channel



Project:RSC240304002-0B Tester:Colin Jiang

Date: 18.MAR.2024 16:03:53

FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, 5725–5850 MHz bands.

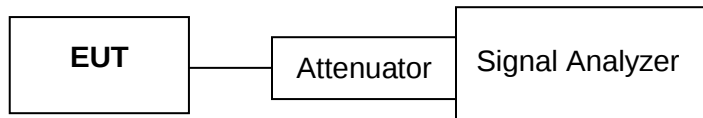
The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

ANSI C63.10-2020 Clause 11.8.1 Option 1

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

Test Setup Block



Note: Offset (6.5dB) = 6dB Attenuator(6dB) + RF cable loss(0.5dB)

Test Data

Environmental Conditions

Temperature:	19 °C
Relative Humidity:	69 %
ATM Pressure:	95.8 kPa

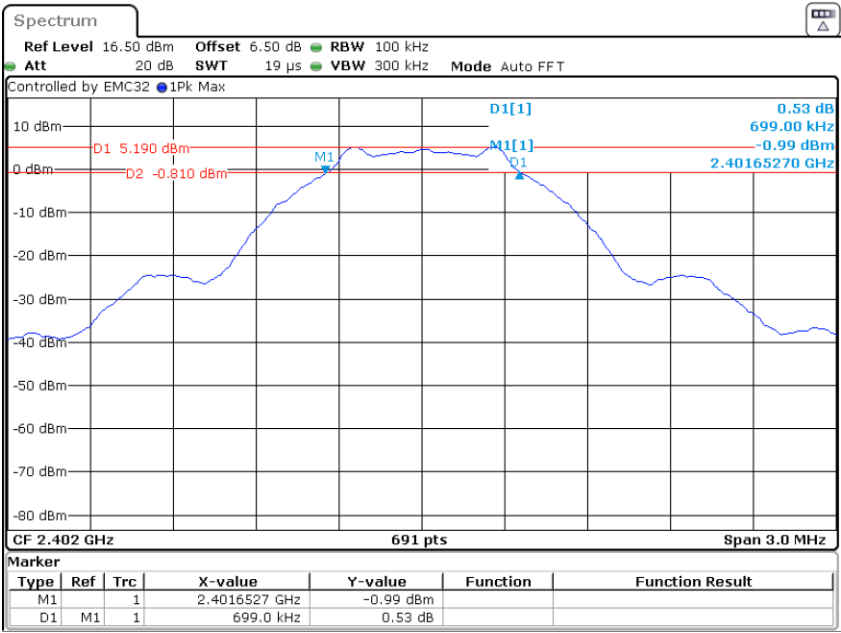
The testing was performed by Colin Jiang on 2024-03-18.

Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table and plots.

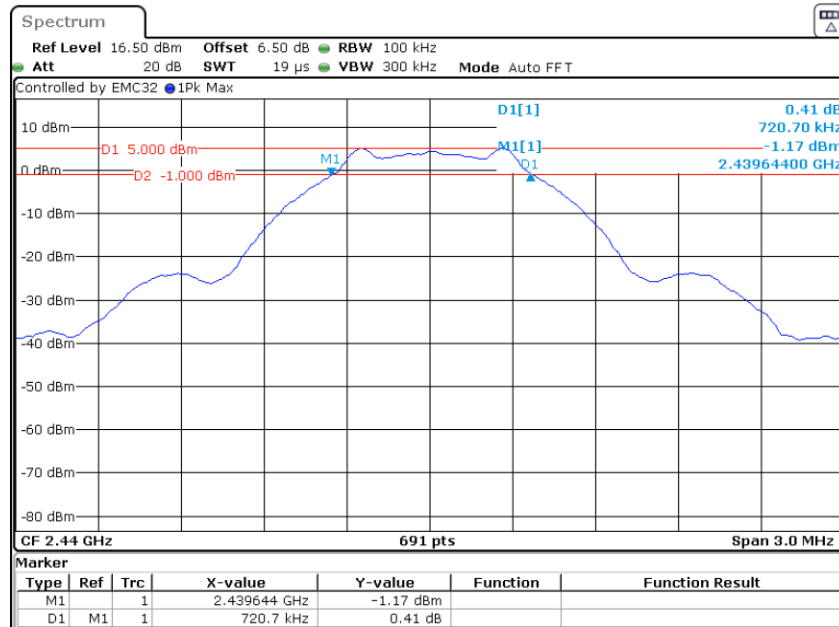
Mode	Channel	Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)
LE 1M	Low	2402	699.00	≥ 500
	Middle	2440	720.70	≥ 500
	High	2480	742.40	≥ 500

Low Channel



Project:RSC240304002-0B Tester:Colin Jiang
Date: 18.MAR.2024 15:08:11

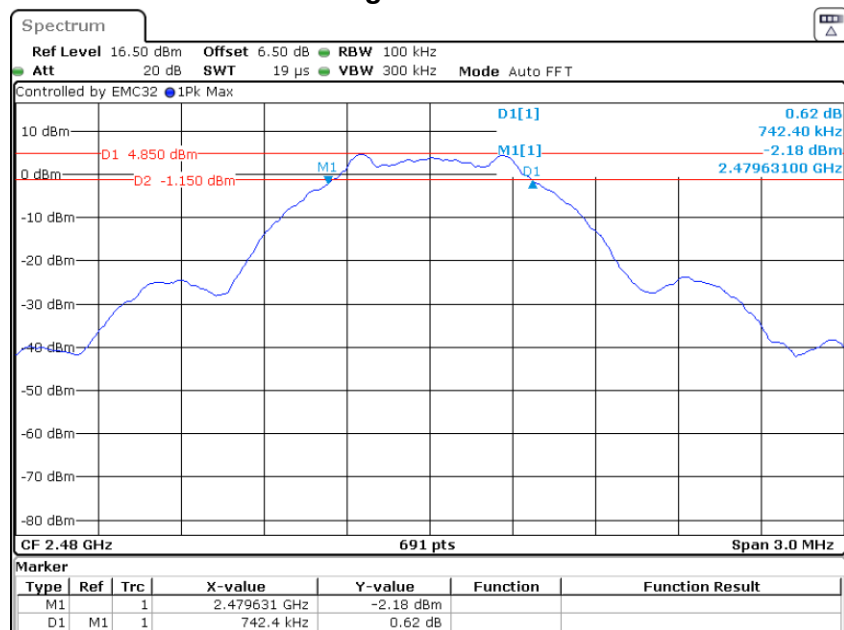
Middle Channel



Project:RSC240304002-0B Tester:Colin Jiang

Date: 18.MAR.2024 15:16:17

High Channel



Project:RSC240304002-0B Tester:Colin Jiang

Date: 18.MAR.2024 15:18:58

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

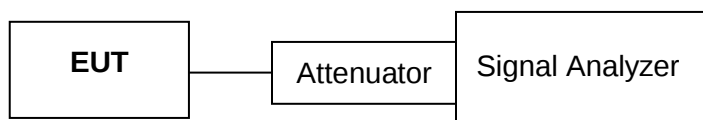
Test Procedure

ANSI C63.10-2020 Clause 11.9.1.1 $RBW \geq DTS$ bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the $RBW \geq DTS$ bandwidth.
- b) Set $VBW \geq [3 \times RBW]$.
- c) Set span $\geq [3 \times RBW]$.
- d) Sweep time = No faster than coupled (auto) time.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

Test Setup Block



Test Data

Environmental Conditions

Temperature:	19 °C
Relative Humidity:	69 %
ATM Pressure:	95.8 kPa

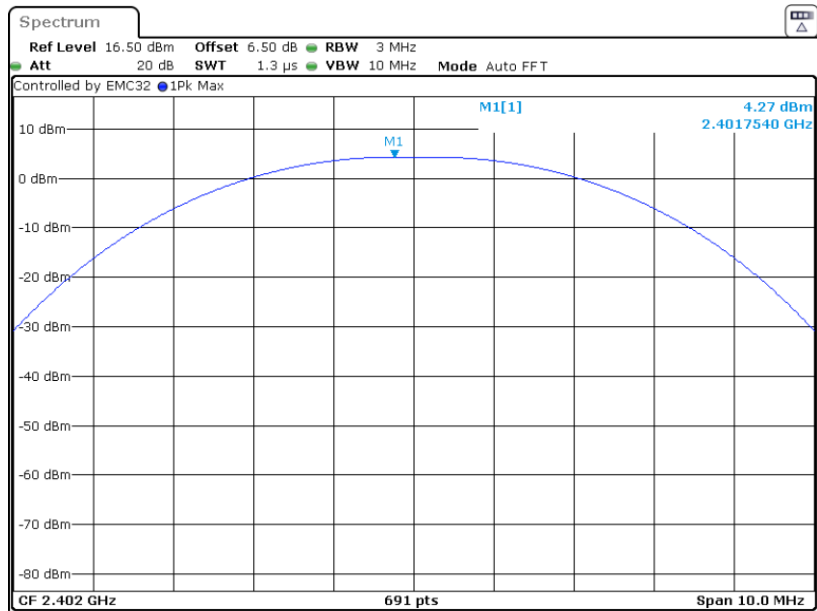
The testing was performed by Colin Jiang on 2024-03-18.

Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table and plots.

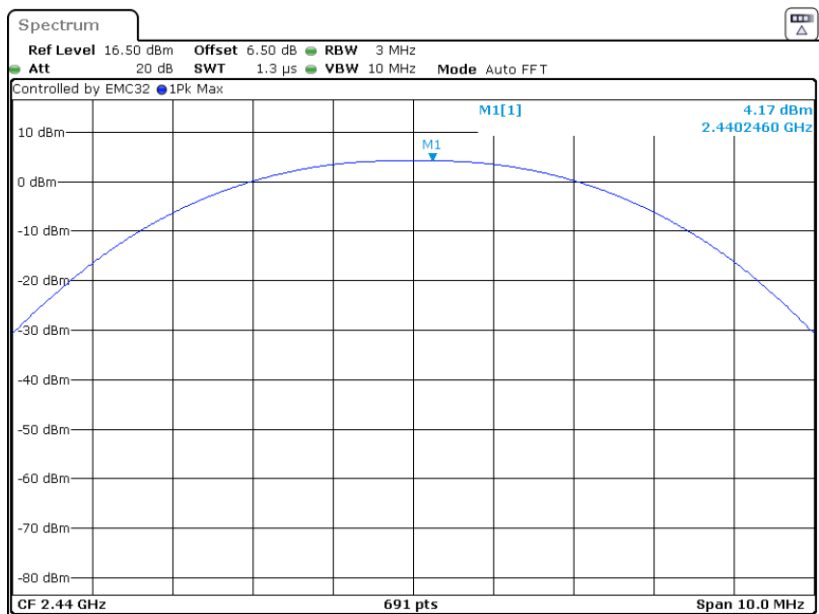
Mode	Channel	Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)
LE 1M	Low	2402	4.27	≤30
	Middle	2440	4.17	≤30
	High	2480	3.87	≤30

Low Channel



Project:RSC240304002-0B Tester:ColinJiang
Date: 18.MAR.2024 09:57:45

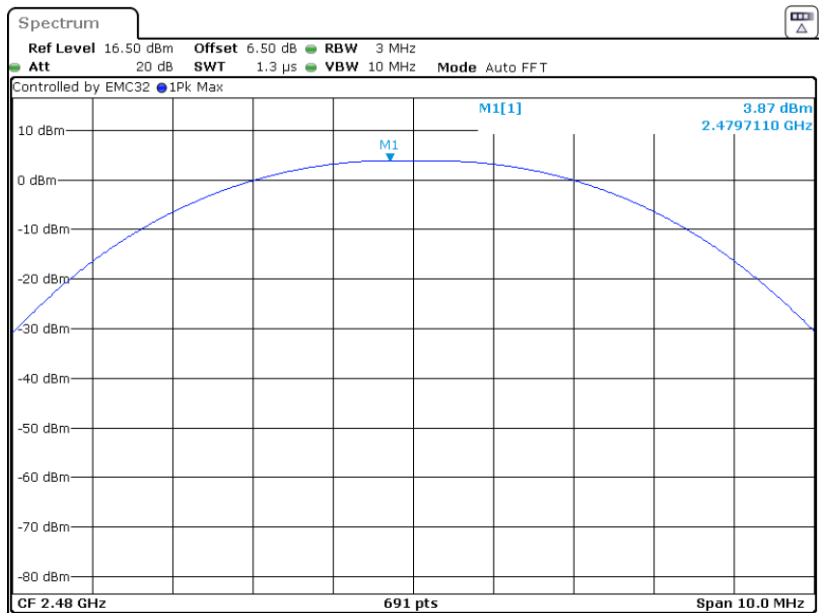
Middle Channel



Project:RSC240304002-0B Tester:ColinJiang

Date: 18.MAR.2024 09:59:19

High Channel



Project:RSC240304002-0B Tester:ColinJiang

Date: 18.MAR.2024 10:03:00

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

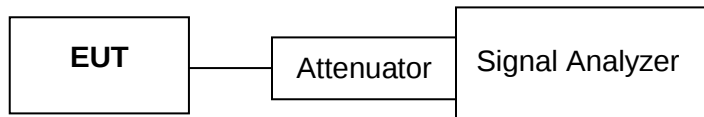
Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

1. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
2. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
3. Repeat above procedures until all measured frequencies were complete.

Test Setup Block



Test Data

Environmental Conditions

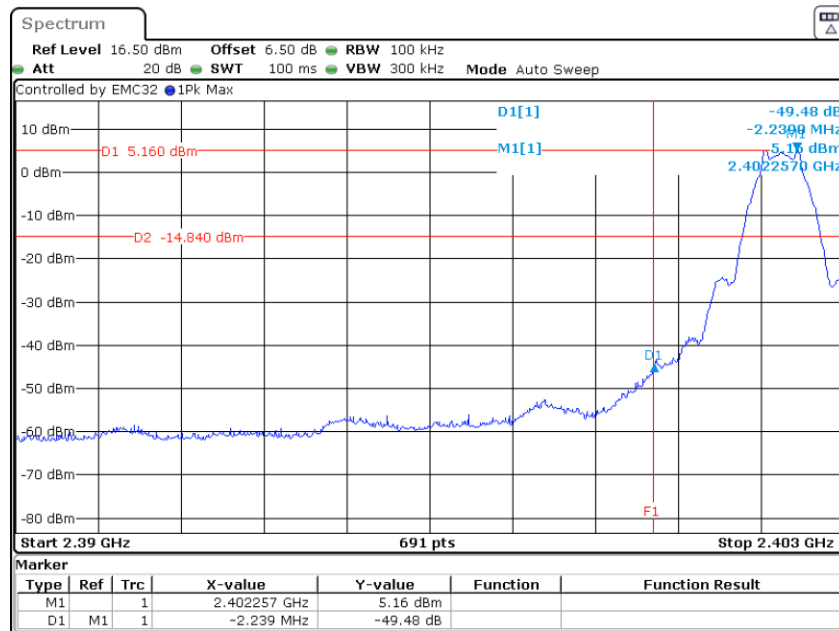
Temperature:	19 °C
Relative Humidity:	69 %
ATM Pressure:	95.8 kPa

The testing was performed by Colin Jiang on 2024-03-18.

Test mode: Transmitting

Test Result: Compliance. Please refer to following plots.

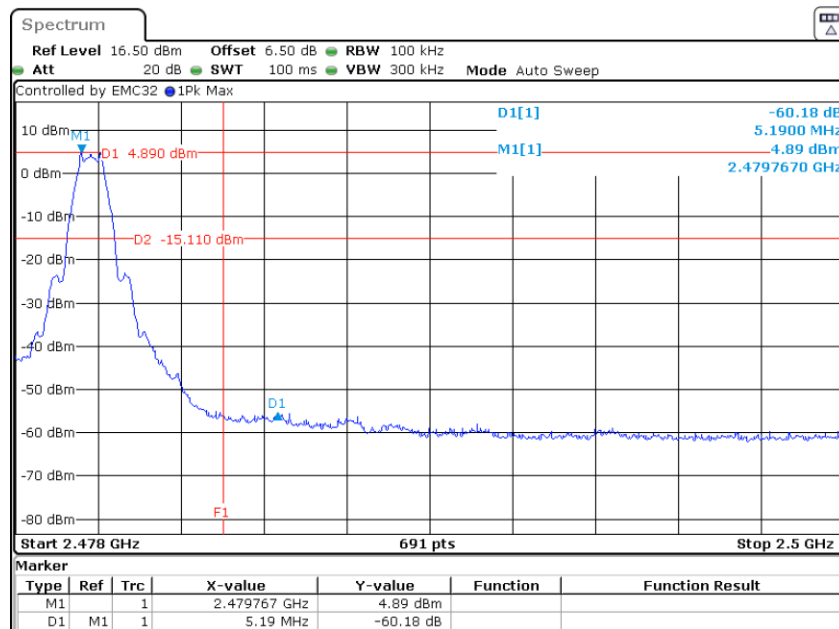
Band Edge, Left Side



Project:RSC240304002-0B Tester:Colin Jiang

Date: 18.MAR.2024 16:31:32

Band Edge, Right Side



Project:RSC240304002-0B Tester:Colin Jiang

Date: 18.MAR.2024 16:26:04

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

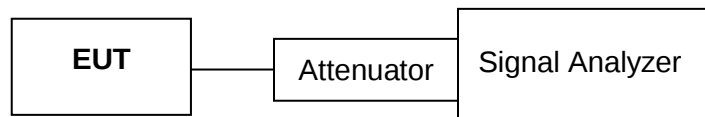
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

ANSI C63.10-2020 Clause 11.10.2(PKPSD)

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

Test Setup Block



Test Data

Environmental Conditions

Temperature:	19 °C
Relative Humidity:	69 %
ATM Pressure:	95.8 kPa

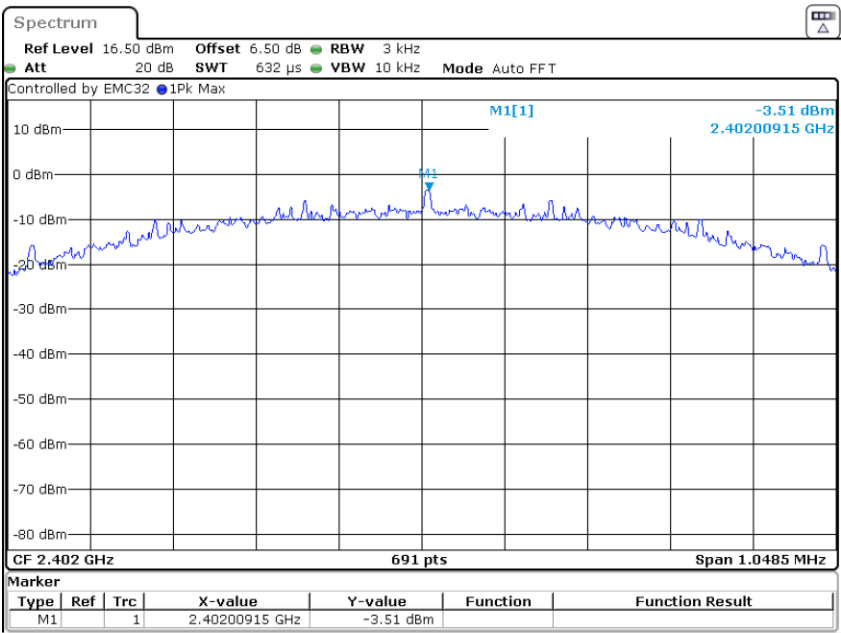
The testing was performed by Colin Jiang on 2024-03-18.

Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table and plots

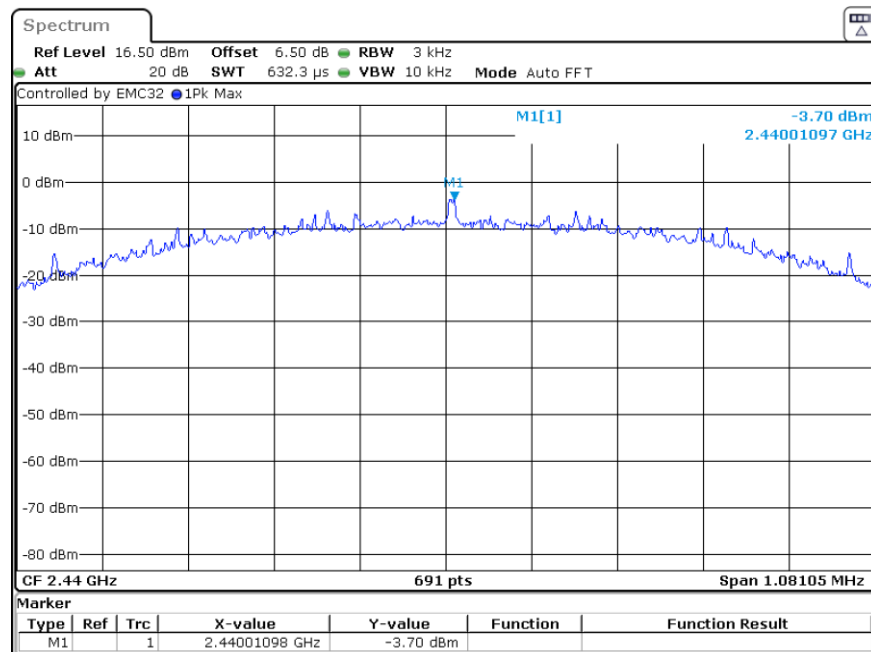
Mode	Channel	Frequency (MHz)	PKPSD (dBm/3kHz)	Limit (dBm/3kHz)
LE 1M	Low	2402	-3.51	≤8
	Middle	2440	-3.70	≤8
	High	2480	-3.47	≤8

Power Spectral Density, Low Channel



Project:RSC240304002-0B Tester:Colin Jiang
Date: 18.MAR.2024 15:45:39

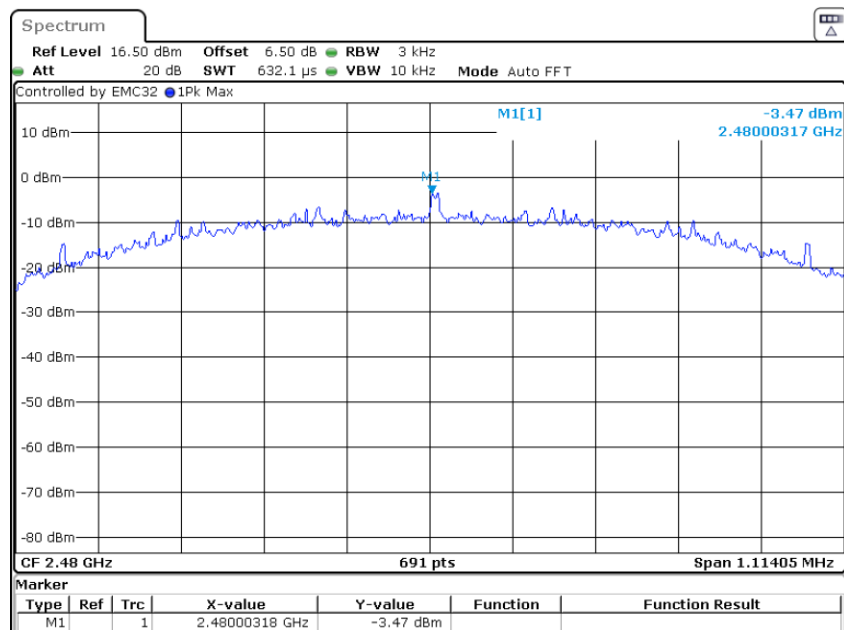
Power Spectral Density, Middle Channel



Project:RSC240304002-0B Tester:Colin Jiang

Date: 18.MAR.2024 15:50:43

Power Spectral Density, High Channel



Project:RSC240304002-0B Tester:Colin Jiang

Date: 18.MAR.2024 15:38:29

END OF REPORT