

FCC Part 15.249

TEST REPORT

For

CIPHERLAB CO., LTD.

12F, 333, Dunhua S.Rd., Sec.2, Taipei, Taiwan

FCC ID: Q3N-1264CRADLE

Report Type:
Original Report

Product Type:
Cradle

Report Producer : Sandy Luo

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Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
1.0	RXZ260128085	RXZ260128085RF04	2026-03-19	Original Report	Sandy Luo

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1 General Information

1.1 Product Description for Equipment under Test (EUT)

Applicant	CIPHERLAB CO., LTD.
	12F, 333, Dunhua S.Rd., Sec.2, Taipei, Taiwan
Brand(Trade) Name	CIPHERLAB
Product (Equipment)	Cradle
Main Model Name	1264 CRADLE
Series Model Name	N/A
Frequency Range	2402~2480 MHz
Maximum E-Field Strength (Peak)	83.99 dBuV/m@3m
Modulation Technique	GFSK
Power Operation (Voltage Range)	5Vdc
Received Date	2026/01/30

**All measurement and test data in this report was gathered from production sample serial number:*

RXZ260128085-2 (Assigned by BACL, New Taipei Laboratory).

1.2 Objective

This report is prepared on behalf of *CIPHERLAB CO., LTD.* in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communication Commission's rules.

1.3 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.

1.4 Statement

Decision Rule: No, (The test results do not include MU judgment)

1. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.(New Taipei Laboratory).
2. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.
3. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
4. The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.
5. Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

1.5 Measurement Uncertainty

Parameter		Uncertainty
AC Mains		+/- 3.02 dB
Occupied Bandwidth		+/- 0.09 %
Emissions, radiated	9 kHz~30 MHz	+/- 3.20 dB
	30 MHz~1 GHz	+/- 3.30 dB
	1 GHz~18 GHz	+/- 5.14 dB
	18 GHz~40 GHz	+/- 4.75 dB
Temperature		+/- 0.76 °C
Humidity		+/- 0.41 %

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

1.6 Environmental Conditions

Test Site	Test Date	Temperature (°C)	Relative Humidity (%)	Test Engineer
AC Line Conducted Emissions	2026/2/10	17.2	52	Jing
Radiation Spurious Emissions	2026/2/6~2026/2/9	15.7~24.4	67~69	Toney
Emission Bandwidth	2026/2/6	24.2	57	Jet

1.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) to collect test data is located on

☒ 70, Lane 169, Sec. 2, Datong Road, Xizhi Dist., New Taipei City 221, Taiwan, R.O.C.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3732) and the FCC designation No.TW3732 under the Mutual Recognition Agreement (MRA) in FCC Test.

2 System Test Configuration

2.1 Description of Test Configuration

For SRD mode, 40 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	--	--
2	2406	--	--
3	2408	37	2476
--	--	38	2478
19	2440	39	2480

For SRD Modes were tested with channel 0, 19 and 39.

2.2 Equipment Modifications

No modification was made to the EUT.

2.3 EUT Exercise Software

The test software was used “SunLuxRfConfigTool_v101”

The system was configured for testing in engineering mode, which was provided by Applicant.

Test Frequency		Low	Middle	High
Power Level Setting	SRD	-8	-8	-8

2.4 Test Mode

Full System (model: 1264 CRADLE) for all test item.

2.5 Support Equipment List and Details

Description	Manufacturer	Model Number
NB	DELL	E6410

2.6 External Cable List and Details

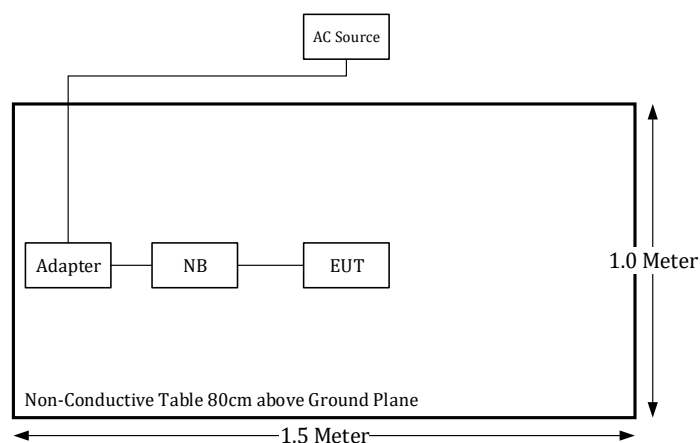
N/A

2.7 Block Diagram of Test Setup

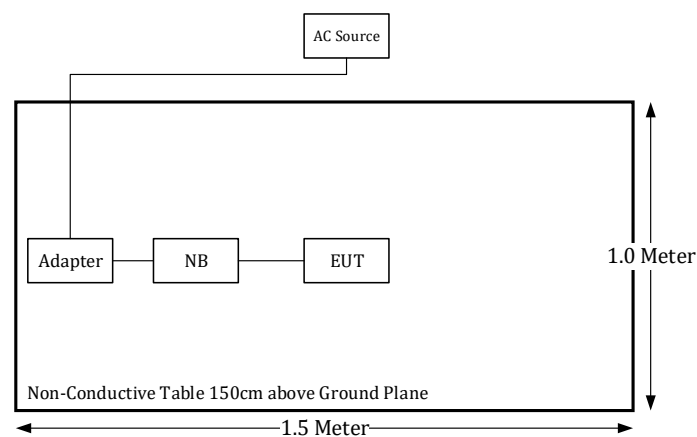
See test photographs attached in setup photos for the actual connections between EUT and support equipment.

Radiation:

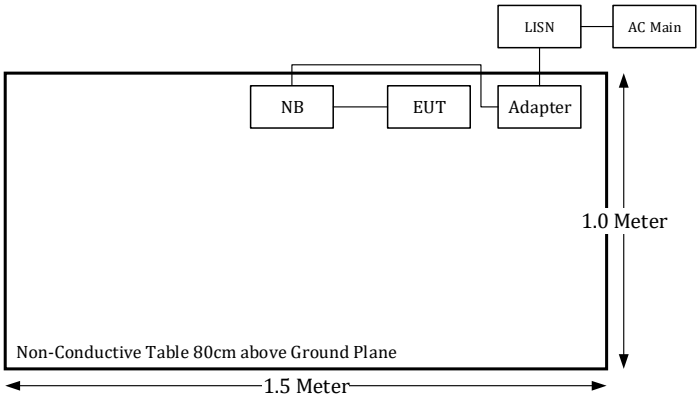
Below 1GHz:



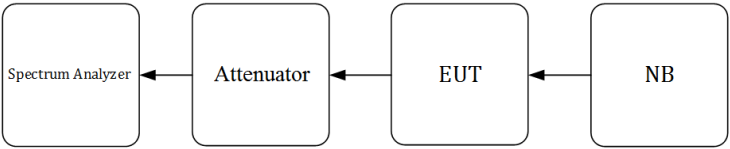
Above 1GHz:



Conduction:



Conducted:



3 Summary of Test Results

FCC Rules	Description of Test	Results
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.249	Radiated Emissions	Compliance
§15.215 (c)	20 dB Emission Bandwidth	Compliance

4 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conduction Room (CON-A)					
LISN	Rohde & Schwarz	ENV216	101612	2025/2/17	2026/2/17
EMI Test Receiver	Rohde & Schwarz	ESW	100947	2025/5/28	2026/5/28
RF Cable	EMEC	EM-CB5D	1	2025/6/30	2026/6/30
Software	AUDIX	E3	V9.150826k	N.C.R	N.C.R
Radiation 3M Room - Below 1GHz (966-A)					
Active Loop Antenna	ETS-Lindgren	6502	35796	2025/3/27	2026/3/27
Bilog Antenna with 6 dB Attenuator	SUNOL SCIENCES & MINI-CIRCUITS	JB6/UNAT-6+	A050115/1554_2_01	2026/1/15	2027/1/15
Preamplifier	Sonoma	310N	130602	2025/6/17	2026/6/17
EMI Test Receiver	Rohde & Schwarz(R&S)	ESR3	102415	2025/3/19	2026/3/19
Microflex Cable	UTIFLEX	UFB197C-1-2362-70U-70U	225757-001	2025/12/19	2026/12/19
Coaxial Cable	UTIFLEX	UFB311A-Q-1440-300300	220490-006	2025/12/19	2026/12/19
Coaxial Cable	COMMATE	PEWC	8Dr	2025/12/19	2026/12/19
Cable	EMC	EMC105-SM-SM-10000	201003	2025/12/19	2026/12/19
Coaxial Cable	JUNFLON	J12J102248-00-B-5	AUG-07-15-044	2025/12/19	2026/12/19
Software	AUDIX	E3	18621a	N.C.R	N.C.R
Radiation 3M Room - Above 1GHz (966-A)					
Horn Antenna	ETS-Lindgren	3115	40736	2025/5/6	2026/5/6
Horn Antenna	ETS-Lindgren	3116	62638	2025/9/4	2026/9/4
Preamplifier	Channel	ERA-100M-18G-01D1748	EC2300051	2025/4/10	2026/4/10
Preamplifier	BACL	BACL-1313-A1840	4011511	2025/2/12	2026/2/12
Spectrum Analyzer	Rohde & Schwarz	FSV40	101939	2025/3/27	2026/3/27
Microflex Cable	UTIFLEX	UFB197C-1-2362-70U-70U	225757-001	2025/12/19	2026/12/19
Coaxial Cable	UTIFLEX	UFB311A-Q-1440-300300	220490-006	2025/12/19	2026/12/19
Coaxial Cable	COMMATE	PEWC	8Dr	2025/12/19	2026/12/19
Cable	EMC	EMC105-SM-SM-10000	201003	2025/12/19	2026/12/19
Coaxial Cable	JUNFLON	J12J102248-00-B-5	AUG-07-15-044	2025/12/19	2026/12/19
Coaxial Cable	ROSNOL	K1K50-UP0264-K1K50-450CM	160309-1	2026/1/21	2027/1/21
Microflex Cable	ROSNOL	K1K50-UP0264-K1K50-80CM	160309-2	2026/1/21	2027/1/21
Band-stop filter	Woken	STI15-9831	STI15-9831-1	2025/10/17	2026/10/17
High-pass filter	XINGBOKEJI	XBLBQ-GTA54	200108-3-2	2025/10/17	2026/10/17
Software	AUDIX	E3	18621a	N.C.R	N.C.R

Conducted Room					
Spectrum Analyzer	Rohde & Schwarz(R&S)	FSV40	101204	2025/6/4	2026/6/4
Cable	UTIFLEX	UFA210A	9435	2025/9/30	2026/9/30
Attenuator	MCL	BW-S10W5+	1419	2025/3/6	2026/3/6

***Statement of Traceability:** BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to the SI System of Units via the R.O.C. Center for Measurement Standards of the Electronics Testing Center, Taiwan (ETC) or to another internationally recognized National Metrology Institute (NMI), and were compliant with the current Taiwan Accreditation Foundation (TAF) requirements.

5 FCC §15.203 – Antenna Requirements

5.1 Applicable Standard

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.

5.2 Antenna Information

Type	Antenna Gain
PCB Antenna	3.7 dBi

Antenna was permanently attached to the unit.

Result: Compliance.

6 FCC §15.207(a) – AC Line Conducted Emissions

6.1 Applicable Standard

According to §15.207

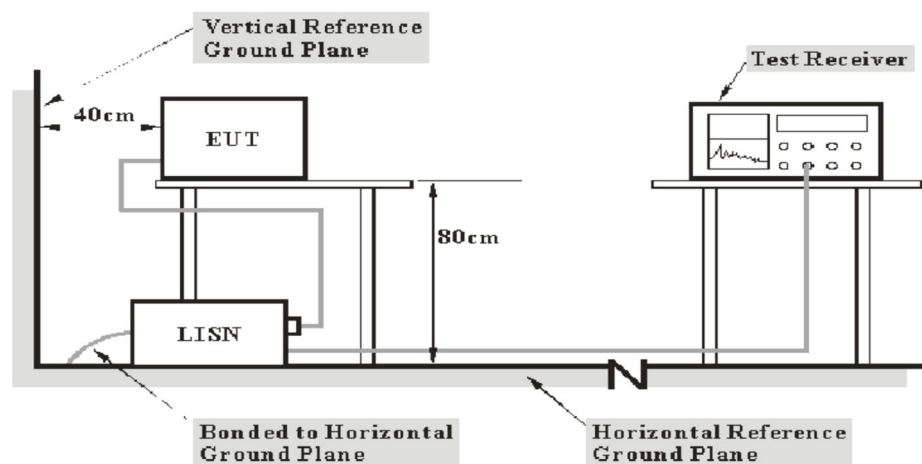
For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}
0.5-5	56	46
5-30	60	50

Note 1: Decreases with the logarithm of the frequency.

6.2 EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

6.3 EMI Test Receiver Setup

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

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

Frequency Range	IF B/W
150kHz – 30MHz	9kHz

6.4 Test Procedure

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

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

All data was recorded in the Quasi-peak and average detection mode.

6.5 Corrected Factor & Over Limit Calculation

The factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

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

$$\text{Over Limit} = \text{Result} - \text{Limit Line}$$

6.6 Test Results

Test Mode: Transmitting

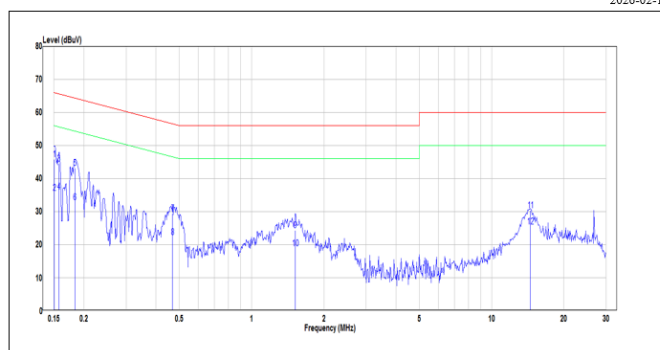
Main: AC120 V, 60 Hz

(Worst case is high channel)

Line

Description: RBW:9kHz/VBW:30kHz

2026-02-10

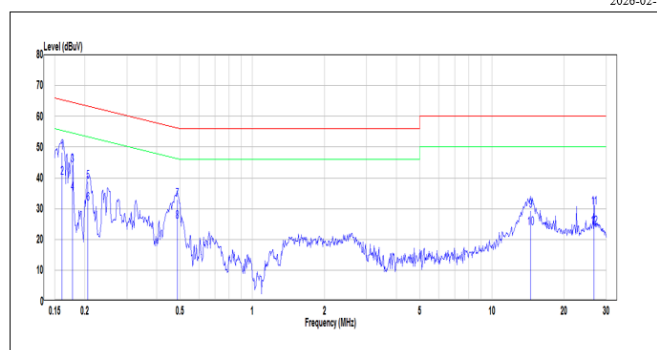


No.	Frequency MHz	Reading dBuV	Correct Factor dB	Result dBuV	Limit dBuV	Over limit dB	Remark	Phase
1	0.151	35.99	9.78	45.77	65.96	-20.19	QP	Line
2	0.151	25.94	9.78	35.72	55.96	-20.24	Average	Line
3	0.157	34.75	9.78	44.53	65.60	-21.07	QP	Line
4	0.157	26.21	9.78	35.99	55.60	-19.61	Average	Line
5	0.183	33.38	9.77	43.15	64.33	-21.18	QP	Line
6	0.183	23.11	9.77	32.88	54.33	-21.45	Average	Line
7	0.469	19.76	9.75	29.51	56.54	-27.03	QP	Line
8	0.469	12.60	9.75	22.35	46.54	-24.19	Average	Line
9	1.519	14.56	9.78	24.34	56.00	-31.66	QP	Line
10	1.519	9.18	9.78	18.96	46.00	-27.04	Average	Line
11	14.517	20.46	9.99	30.45	60.00	-29.55	QP	Line
12	14.517	15.57	9.99	25.56	50.00	-24.44	Average	Line

Neutral

Description: RBW:9kHz/VBW:30kHz

2026-02-10



No.	Frequency MHz	Reading dBuV	Correct Factor dB	Result dBuV	Limit dBuV	Over limit dB	Remark	Phase
1	0.161	38.61	9.74	48.35	65.43	-17.08	QP	Neutral
2	0.161	30.51	9.74	40.25	55.43	-15.18	Average	Neutral
3	0.178	34.52	9.73	44.25	64.59	-20.34	QP	Neutral
4	0.178	25.42	9.73	35.15	54.59	-19.44	Average	Neutral
5	0.206	29.14	9.73	38.87	63.36	-24.49	QP	Neutral
6	0.206	21.91	9.73	31.64	53.36	-21.72	Average	Neutral
7	0.486	23.21	9.70	32.91	56.23	-23.32	QP	Neutral
8	0.486	16.16	9.70	25.86	46.23	-20.37	Average	Neutral
9	14.517	19.46	9.94	29.40	60.00	-30.60	QP	Neutral
10	14.517	13.89	9.94	23.83	50.00	-26.17	Average	Neutral
11	26.699	20.45	10.01	30.46	60.00	-29.54	QP	Neutral
12	26.699	14.08	10.01	24.09	50.00	-25.91	Average	Neutral

Note:

Result = Reading + Factor

Over Limit = Result – Limit Line

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator

7 FCC §15.209, §15.205 , §15.249 - Radiated Emissions

7.1 Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (millivolts/meter)
920-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

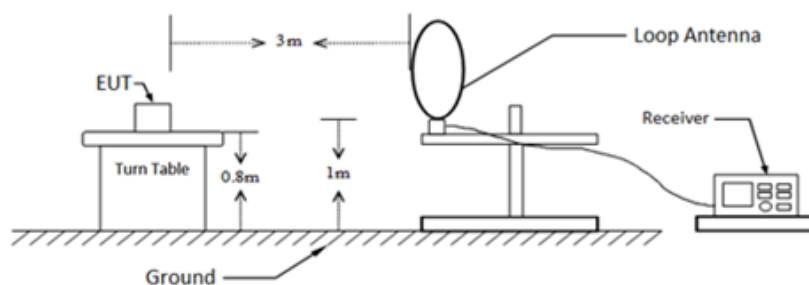
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to ANSI C63.10-2020, section 5.3.3

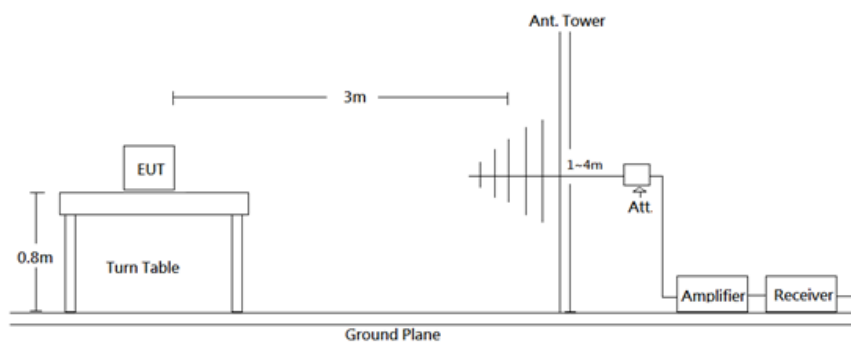
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field, and the emissions to be measured can be detected by the measurement equipment (see 4.3.4). Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. Measurements from 18 GHz to 40 GHz are typically made at distances significantly less than 3 m from the EUT. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade of distance (inverse of linear distance for field-strength measurements or inverse of linear distance-squared for power-density measurements).

7.2 EUT Setup

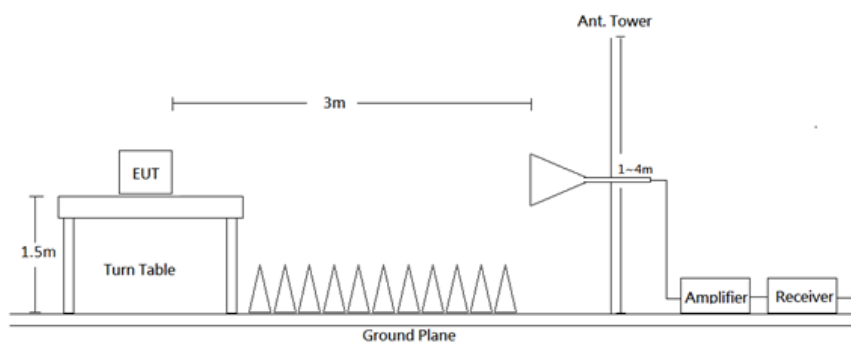
9kHz-30MHz:



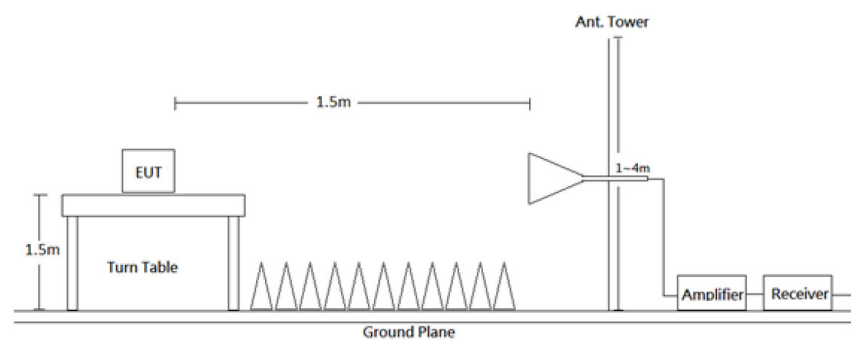
30MHz-1GHz:



1-18 GHz:



18-26.5 GHz:



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 15.249 limits.

7.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 26.5 GHz. During the radiated emission test, the EMI test receiver was set with the following configurations measurement method 6.3 in ANSI C63.10.

Frequency Range	RBW	Video B/W	IF B/W	Measurement method	Detector
9 kHz - 150 kHz	300 Hz	1 kHz	200 Hz	QP/AV	QP/AV
150 kHz - 30 MHz	10 kHz	30 kHz	9 kHz	QP/AV	QP/AV
30-1000 MHz	100 kHz	300 kHz	/	PK	PK
	/	/	120 kHz	QP	QP
Above 1 GHz	Pre-scan :				
	1 MHz	3 MHz	/	PK	PK
	1 MHz	3 MHz	/	Ave	Ave
	Final measurement for emission identified during pre-scan :				
	1 MHz	3 MHz	/	PK	PK
	1 MHz	3 MHz	/	Ave	Ave

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.

7.4 Test Procedure

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

All data was recorded in Quasi-peak and average detector mode from 9 kHz to 30 MHz, Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

7.5 Corrected Factor & Margin Calculation

The Correct Factor 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:

$$\text{Correct Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit.

For example, a margin of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Level} - \text{Limit}$$

7.6 Test Results

Test Mode: Transmitting

(Pre-scan with three orthogonal axis, and worse case as Z axis.)

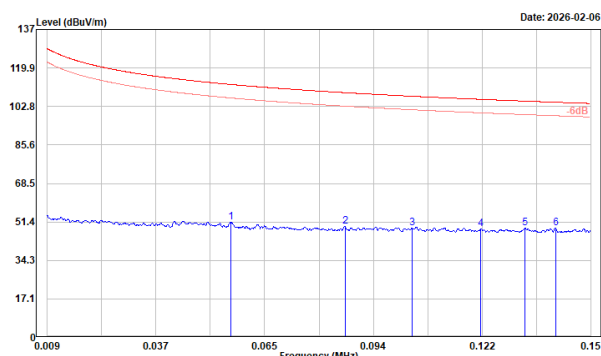
9kHz-30MHz:

(Pre-scan using three directional polarities, parallel, perpendicular, and ground parallel, worst case as parallel.)

(Worst case is SRD mode, high channel)

9kHz-150kHz

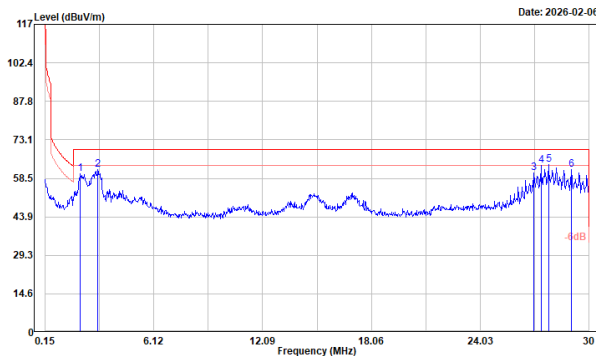
Description: RBW: 300Hz/VBW: 1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
0.057	38.74	12.44	51.18	112.54	-61.36	100	182	Average
0.086	37.81	11.49	49.30	108.89	-59.59	100	67	Average
0.104	37.04	11.62	48.66	107.30	-58.64	100	243	QP
0.122	36.72	11.67	48.39	105.91	-57.52	100	188	Average
0.133	36.88	11.71	48.59	105.13	-56.54	100	317	Average
0.141	36.87	11.73	48.60	104.63	-56.03	100	29	Average

150kHz-30MHz

Description: RBW: 10kHz/VBW: 30kHz



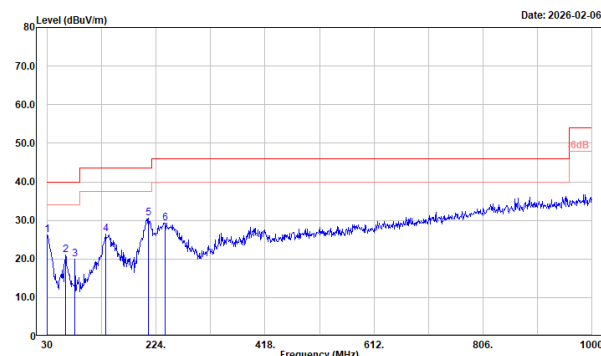
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2.090	49.49	10.71	60.20	69.54	-9.34	100	182	Average
3.045	51.23	10.53	61.76	69.54	-7.78	100	166	Average
26.955	48.86	11.85	60.71	69.54	-8.83	100	333	Average
27.373	51.68	11.86	63.54	69.54	-6.00	100	97	Average
27.791	51.97	11.87	63.84	69.54	-5.70	100	266	Average
29.045	50.02	11.91	61.93	69.54	-7.61	100	317	Average

30MHz-1GHz:

Low channel

Horizontal

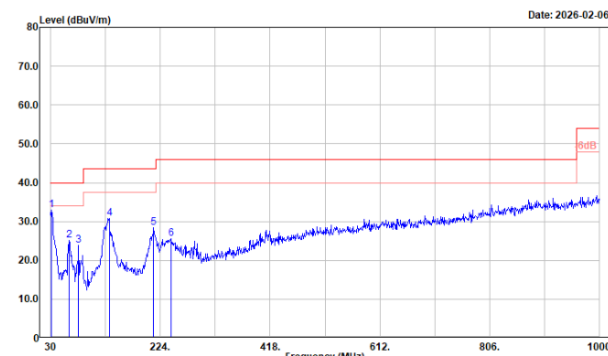
Description: TX-LOW, RBW: 100kHz/VBW: 300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	30.04	-3.71	26.33	40.00	-13.67	100	103	QP
62.980	38.19	-17.15	21.04	40.00	-18.96	100	30	QP
79.470	37.01	-17.17	19.84	40.00	-20.16	100	352	QP
133.790	36.65	-10.20	26.45	43.50	-17.05	100	272	QP
210.420	43.42	-12.94	30.48	43.50	-13.02	100	331	QP
239.520	40.74	-11.53	29.21	46.00	-16.79	100	294	QP

Vertical

Description: TX-LOW, RBW: 100kHz/VBW: 300kHz

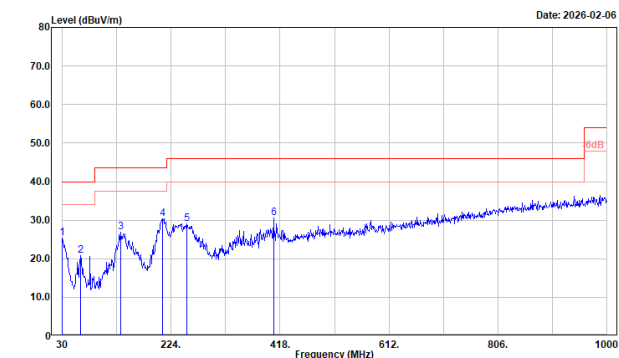


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.970	37.82	-4.97	32.85	40.00	-7.15	100	2	QP
62.980	42.35	-17.15	25.20	40.00	-14.80	100	142	QP
79.470	40.97	-17.17	23.80	40.00	-16.20	100	262	QP
133.790	41.01	-10.20	30.81	43.50	-12.69	100	309	QP
212.360	41.25	-12.86	28.39	43.50	-15.11	100	209	QP
242.430	37.06	-11.49	25.57	46.00	-20.43	100	138	QP

Middle channel

Horizontal

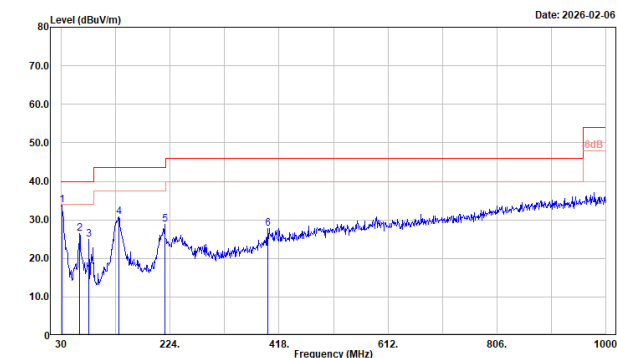
Description: TX-Mid, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	29.09	-3.71	25.38	40.00	-14.62	100	109	QP
62.980	38.00	-17.15	20.85	40.00	-19.15	100	254	QP
134.760	37.05	-10.25	26.80	43.50	-16.70	100	273	QP
208.480	43.24	-12.78	30.46	43.50	-13.04	100	93	QP
252.130	40.48	-11.49	28.99	46.00	-17.01	100	281	QP
406.360	36.27	-5.76	30.51	46.00	-15.49	100	44	QP

Vertical

Description: TX-Mid, RBW:100kHz/VBW:300kHz

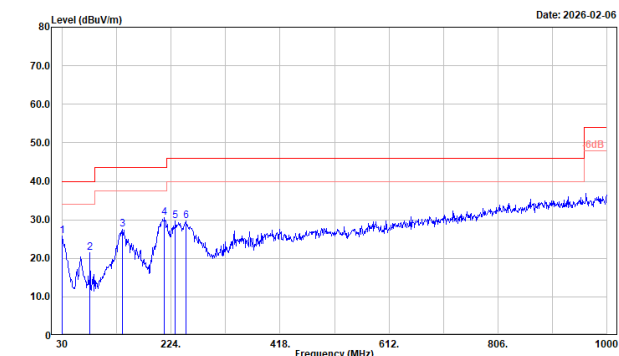


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.970	38.80	-4.97	33.83	40.00	-6.17	100	3	QP
62.980	43.53	-17.15	26.38	40.00	-13.62	100	126	QP
79.470	42.09	-17.17	24.92	40.00	-15.08	100	33	QP
132.820	41.09	-10.28	30.81	43.50	-12.69	100	302	QP
214.300	41.62	-12.76	28.86	43.50	-14.64	100	211	QP
398.600	33.67	-5.85	27.82	46.00	-18.18	100	184	QP

High channel

Horizontal

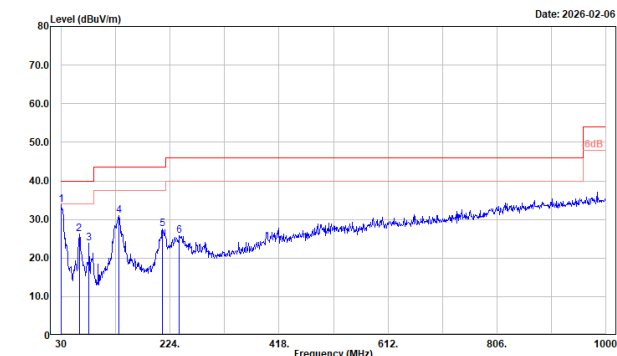
Description: TX-High, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	29.49	-3.71	25.78	40.00	-14.22	100	227	QP
79.470	38.53	-17.17	21.36	40.00	-18.64	100	327	QP
136.700	37.91	-10.43	27.48	43.50	-16.02	100	266	QP
212.360	43.53	-12.86	30.67	43.50	-12.83	100	38	QP
231.760	41.61	-11.97	29.64	46.00	-16.36	100	296	QP
250.190	41.18	-11.56	29.62	46.00	-16.38	100	317	QP

Vertical

Description: TX-High, RBW:100kHz/VBW:300kHz

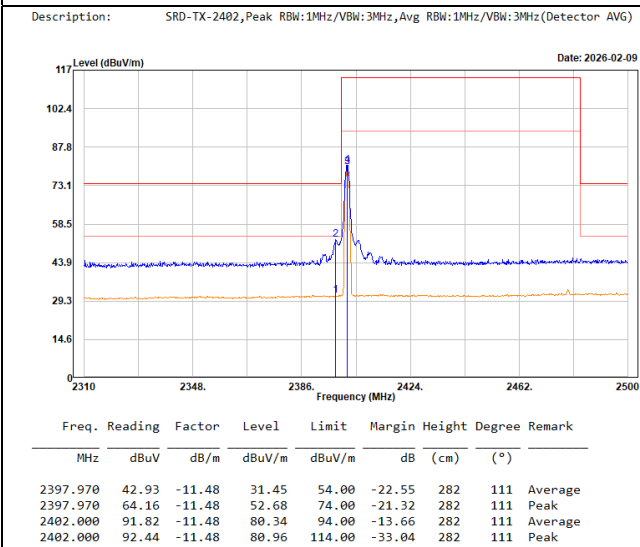


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	37.43	-3.71	33.72	40.00	-6.28	100	128	QP
62.010	43.63	-17.32	26.31	40.00	-13.69	100	102	QP
79.470	41.08	-17.17	23.91	40.00	-16.09	100	198	QP
132.820	41.27	-10.28	30.99	43.50	-12.51	100	328	QP
210.420	40.51	-12.94	27.57	43.50	-15.93	100	206	QP
240.490	37.27	-11.50	25.77	46.00	-20.23	100	27	QP

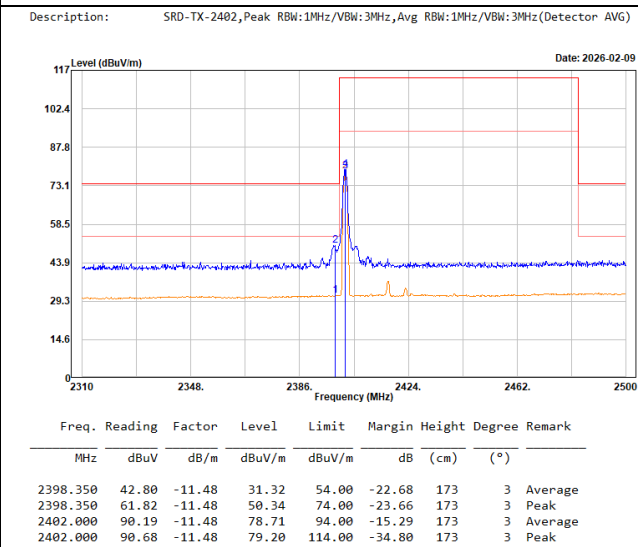
Band-Edge:

Low channel

Horizontal

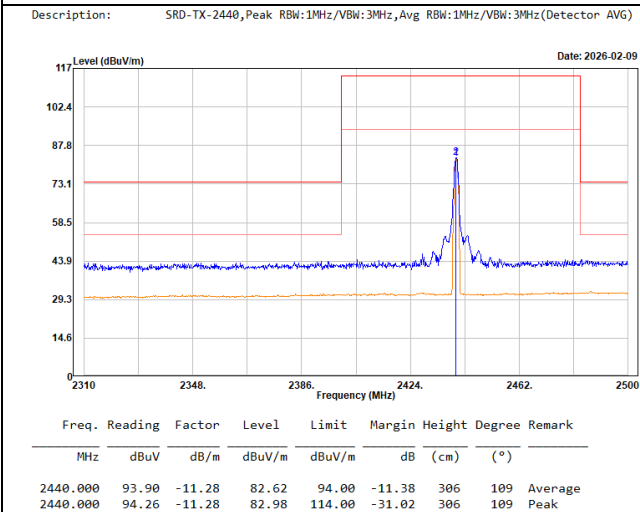


Vertical

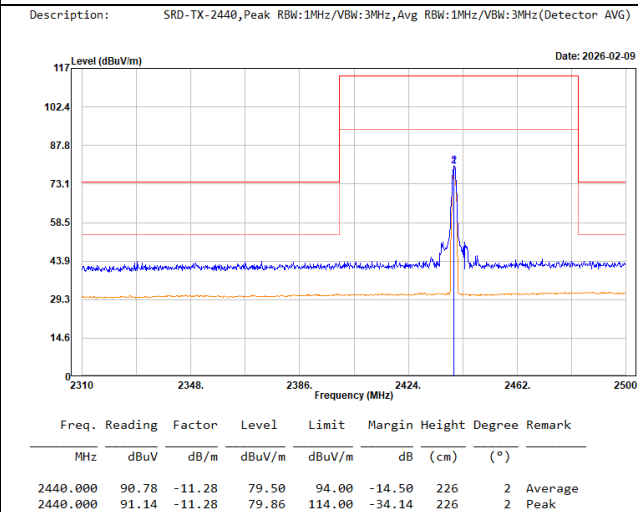


Middle channel

Horizontal

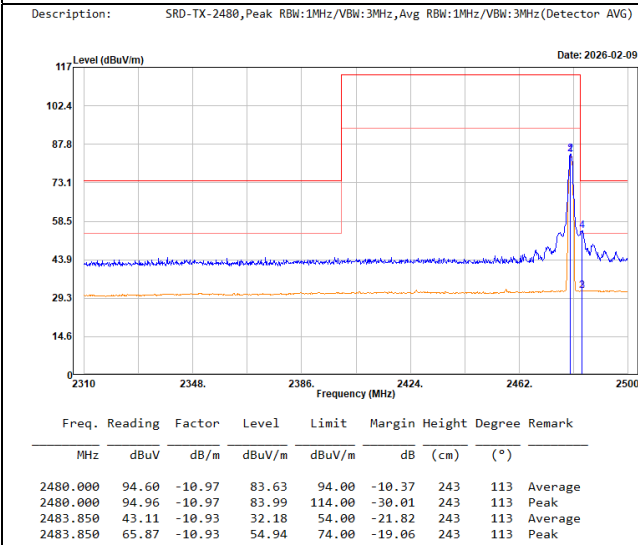


Vertical

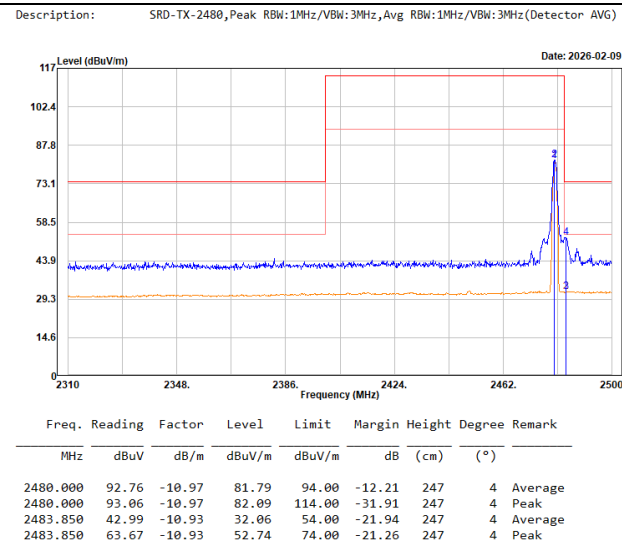


High channel

Horizontal



Vertical

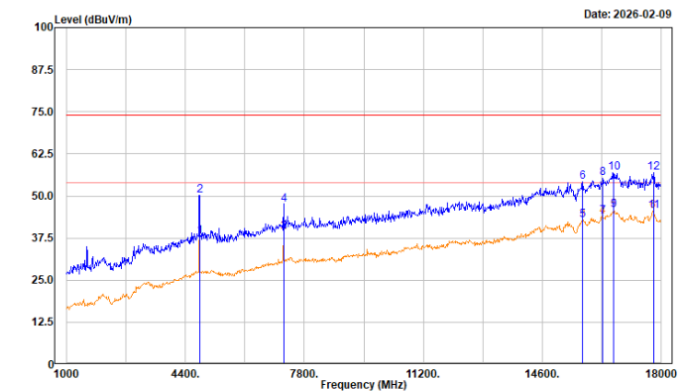


1GHz-18GHz:

(Worst case is low channel)

Horizontal

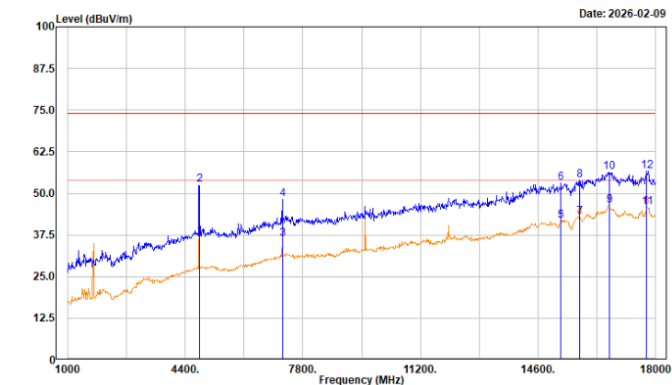
Description: SRD-TX-2402, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:3MHz (Detector AVG)



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	42.97	-4.98	37.99	54.00	-16.01	389	299	Average
4804.000	55.10	-4.98	50.12	74.00	-23.88	389	299	Peak
7206.000	40.08	-0.78	39.30	54.00	-14.70	350	214	Average
7206.000	48.34	-0.78	47.56	74.00	-26.44	350	214	Peak
15756.000	32.81	9.99	42.80	54.00	-11.20	150	281	Average
15756.000	44.29	9.99	54.28	74.00	-19.72	150	281	Peak
16334.000	31.96	11.90	43.86	54.00	-10.14	150	344	Average
16334.000	43.43	11.90	55.33	74.00	-18.67	150	344	Peak
16640.000	31.95	13.73	45.68	54.00	-8.32	150	296	Average
16640.000	43.06	13.73	56.79	74.00	-17.21	150	296	Peak
17779.000	32.58	12.86	45.44	54.00	-8.56	150	37	Average
17779.000	44.16	12.86	57.02	74.00	-16.98	150	37	Peak

Vertical

Description: SRD-TX-2402, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:3MHz (Detector AVG)



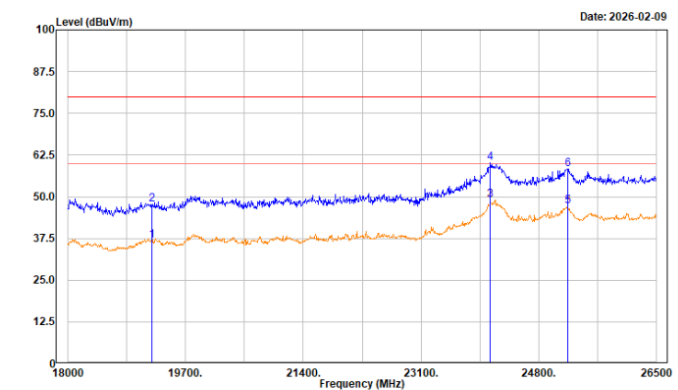
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	41.85	-4.98	36.87	54.00	-17.13	394	26	Average
4804.000	57.42	-4.98	52.44	74.00	-21.56	394	26	Peak
7206.000	37.18	-0.78	36.40	54.00	-17.60	276	27	Average
7206.000	49.07	-0.78	48.29	74.00	-25.71	276	27	Peak
15263.000	31.56	10.14	41.70	54.00	-12.30	150	181	Average
15263.000	42.86	10.14	53.00	74.00	-21.00	150	181	Peak
15807.000	32.74	10.15	42.89	54.00	-11.11	150	93	Average
15807.000	43.89	10.15	54.04	74.00	-19.96	150	93	Peak
16657.000	32.67	13.76	46.43	54.00	-7.57	150	273	Average
16657.000	42.66	13.76	56.42	74.00	-17.58	150	273	Peak
17745.000	32.77	12.96	45.73	54.00	-8.27	150	166	Average
17745.000	43.69	12.96	56.65	74.00	-17.35	150	166	Peak

18GHz-26.5GHz:

(Worst case is low channel)

Horizontal

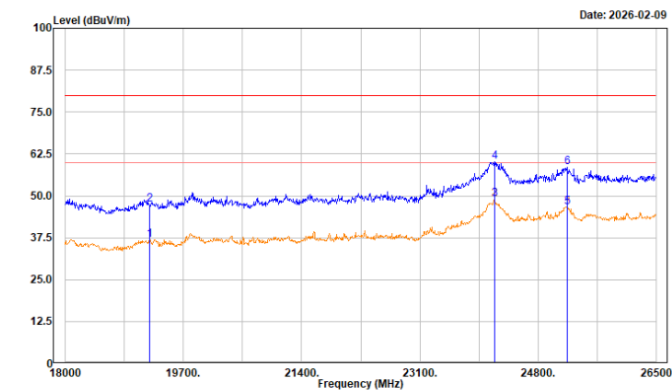
Description: SRD-TX-2402, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:3MHz (Detector AVG)



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19216.000	39.37	-2.58	36.79	60.00	-23.21	150	75	Average
19216.000	50.38	-2.58	47.80	80.00	-32.20	150	75	Peak
24103.000	36.07	13.00	49.07	60.00	-10.93	150	128	Average
24103.000	47.29	13.00	60.29	80.00	-19.71	150	128	Peak
25216.500	37.25	9.80	47.05	60.00	-12.95	150	255	Average
25216.500	48.51	9.80	58.31	80.00	-21.69	150	255	Peak

Vertical

Description: SRD-TX-2402, Peak RBW:1MHz/VBW:3MHz, Avg RBW:1MHz/VBW:3MHz (Detector AVG)



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19216.000	39.39	-2.58	36.81	60.00	-23.19	150	220	Average
19216.000	49.95	-2.58	47.37	80.00	-32.63	150	220	Peak
24171.000	37.22	11.78	49.00	60.00	-11.00	150	146	Average
24171.000	48.28	11.78	60.06	80.00	-19.94	150	146	Peak
25216.500	36.85	9.80	46.65	60.00	-13.35	150	5	Average
25216.500	48.74	9.80	58.54	80.00	-21.46	150	5	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

For 18-26.5GHz Convert the test distance limit of 3 meters to a limit of 1.5 meter:

Conversion factor = $20 \log(1.5\text{m}/3\text{m}) = 6 \text{ dB}$,Average Limit = $54 + 6 = 60 \text{ dBuV/m}@1.5\text{m}$, Peak Limit = $60 + 20 = 80 \text{ dBuV/m}@1.5\text{m}$

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

(New Taipei Laboratory)

Above 1GHz

Low channel																	
Horizontal									Vertical								
Freq. Reading Factor Level Limit Margin Height Degree Remark									Freq. Reading Factor Level Limit Margin Height Degree Remark								
MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)
4804.000	42.97	-4.98	37.99	54.00	-16.01	389	299	Average	4804.000	41.85	-4.98	36.87	54.00	-17.13	394	26	Average
4804.000	55.10	-4.98	50.12	74.00	-23.88	389	299	Peak	4804.000	57.42	-4.98	52.44	74.00	-21.56	394	26	Peak
7206.000	40.08	-0.78	39.30	54.00	-14.70	350	214	Average	7206.000	37.18	-0.78	36.40	54.00	-17.60	276	27	Average
7206.000	48.34	-0.78	47.56	74.00	-26.44	350	214	Peak	7206.000	49.07	-0.78	48.29	74.00	-25.71	276	27	Peak
15756.000	32.81	9.99	42.80	54.00	-11.20	150	281	Average	15263.000	31.56	10.14	41.70	54.00	-12.30	150	181	Average
15756.000	44.29	9.99	54.28	74.00	-19.72	150	281	Peak	15263.000	42.86	10.14	53.00	74.00	-21.00	150	181	Peak
16334.000	31.96	11.90	43.86	54.00	-10.14	150	344	Average	15807.000	32.74	10.15	42.89	54.00	-11.11	150	93	Average
16334.000	43.43	11.90	55.33	74.00	-18.67	150	344	Peak	15807.000	43.89	10.15	54.04	74.00	-19.96	150	93	Peak
16640.000	31.95	13.73	45.68	54.00	-8.32	150	296	Average	16657.000	32.67	13.76	46.43	54.00	-7.57	150	273	Average
16640.000	43.06	13.73	56.79	74.00	-17.21	150	296	Peak	16657.000	42.66	13.76	56.42	74.00	-17.58	150	273	Peak
17779.000	32.58	12.86	45.44	54.00	-8.56	150	37	Average	17745.000	32.77	12.96	45.73	54.00	-8.27	150	166	Average
17779.000	44.16	12.86	57.02	74.00	-16.98	150	37	Peak	17745.000	43.69	12.96	56.65	74.00	-17.35	150	166	Peak

Middle channel																	
Horizontal									Vertical								
Freq. Reading Factor Level Limit Margin Height Degree Remark									Freq. Reading Factor Level Limit Margin Height Degree Remark								
MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)
4880.000	41.52	-4.76	36.76	54.00	-17.24	393	305	Average	4880.000	41.31	-4.76	36.55	54.00	-17.45	394	234	Average
4880.000	54.52	-4.76	49.76	74.00	-24.24	393	305	Peak	4880.000	57.73	-4.76	52.97	74.00	-21.03	394	234	Peak
7320.000	36.05	-0.25	35.80	54.00	-18.20	371	271	Average	7320.000	36.70	-0.25	36.45	54.00	-17.55	120	22	Average
7320.000	49.27	-0.25	49.02	74.00	-24.98	371	271	Peak	7320.000	50.91	-0.25	50.66	74.00	-23.34	120	22	Peak
15331.000	31.97	9.72	41.69	54.00	-12.31	150	342	Average	14753.000	30.10	10.89	40.99	54.00	-13.01	150	271	Average
15331.000	43.19	9.72	52.91	74.00	-21.09	150	342	Peak	14753.000	41.32	10.89	52.21	74.00	-21.79	150	271	Peak
16045.000	31.84	11.36	43.20	54.00	-10.80	150	279	Average	15977.000	32.67	10.72	43.39	54.00	-10.61	150	37	Average
16045.000	42.88	11.36	54.24	74.00	-19.76	150	279	Peak	15977.000	43.71	10.72	54.43	74.00	-19.57	150	37	Peak
16725.000	32.04	13.81	45.85	54.00	-8.15	150	56	Average	16708.000	32.19	13.83	46.02	54.00	-7.98	150	94	Average
16725.000	42.45	13.81	56.26	74.00	-17.74	150	56	Peak	16708.000	42.78	13.83	56.61	74.00	-17.39	150	94	Peak
17592.000	30.74	13.24	43.98	54.00	-10.02	150	16	Average	17813.000	33.28	12.74	46.02	54.00	-7.98	150	162	Average
17592.000	42.59	13.24	55.83	74.00	-18.17	150	16	Peak	17813.000	43.24	12.74	55.98	74.00	-18.02	150	162	Peak

High channel																	
Horizontal									Vertical								
Freq. Reading Factor Level Limit Margin Height Degree Remark									Freq. Reading Factor Level Limit Margin Height Degree Remark								
MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)
4960.000	43.00	-4.78	38.22	54.00	-15.78	311	158	Average	4960.000	43.38	-4.78	38.60	54.00	-15.40	343	233	Average
4960.000	55.50	-4.78	50.72	74.00	-23.28	311	158	Peak	4960.000	57.38	-4.78	52.60	74.00	-21.40	343	233	Peak
7440.000	36.37	-0.27	36.10	54.00	-17.90	391	269	Average	7440.000	37.71	-0.27	37.44	54.00	-16.56	304	23	Average
7440.000	45.11	-0.27	44.84	74.00	-29.16	391	269	Peak	7440.000	51.34	-0.27	51.07	74.00	-22.93	304	23	Peak
15994.000	31.70	10.88	42.58	54.00	-11.42	150	267	Average	15790.000	32.64	10.12	42.76	54.00	-11.24	150	34	Average
15994.000	43.38	10.88	54.26	74.00	-19.74	150	267	Peak	15790.000	44.30	10.12	54.42	74.00	-19.58	150	34	Peak
16487.000	30.55	13.08	43.63	54.00	-10.37	150	311	Average	16572.000	31.27	13.58	44.85	54.00	-9.15	150	316	Average
16487.000	43.26	13.08	56.34	74.00	-17.66	150	311	Peak	16572.000	43.05	13.58	56.63	74.00	-17.37	150	316	Peak
16691.000	30.13	13.82	43.95	54.00	-10.05	150	133	Average	16708.000	31.73	13.83	45.56	54.00	-8.44	150	247	Average
16691.000	42.71	13.82	56.53	74.00	-17.47	150	133	Peak	16708.000	42.96	13.83	56.79	74.00	-17.21	150	247	Peak
17779.000	32.97	12.86	45.83	54.00	-8.17	150	274	Average	17779.000	32.63	12.86	45.49	54.00	-8.51	150	144	Average
17779.000	44.53	12.86	57.39	74.00	-16.61	150	274	Peak	17779.000	43.41	12.86	56.27	74.00	-17.73	150	144	Peak

Note:

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain

8 FCC §15.215(c) – 20 dB Bandwidth Testing

8.1 Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

8.2 Test Procedure

20 dB Emission Bandwidth

According to ANSI C63.10-2020, Section 6.9.2

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

According to ANSI C63.10-2020, Section 6.9.3

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

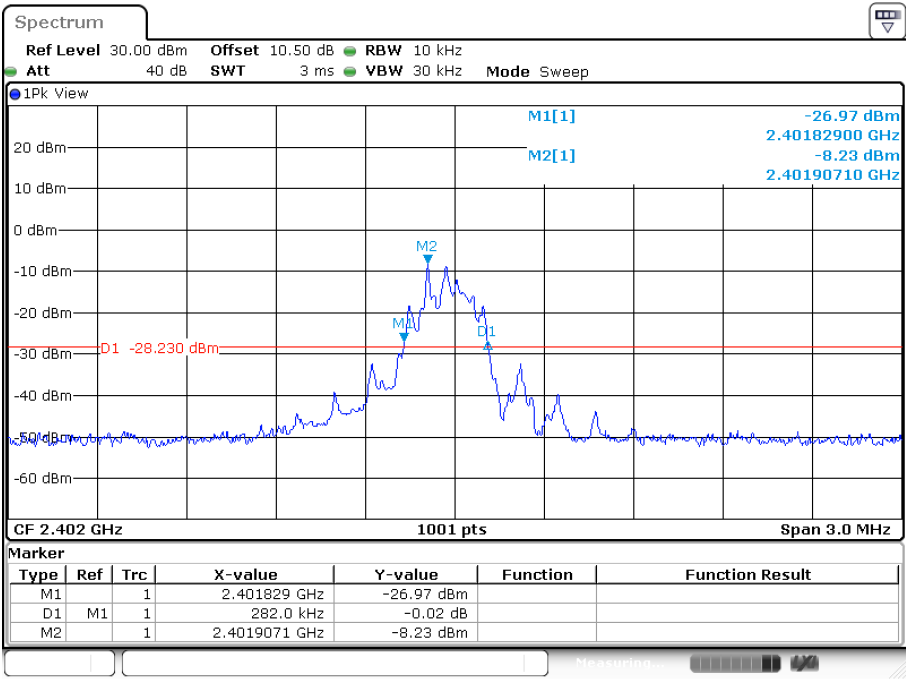
8.3 Test Results

Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)	99% Bandwidth (MHz)
Low	2402	0.28	0.29
Middle	2440	0.28	0.29
High	2480	0.28	0.29

Please refer to the following plots

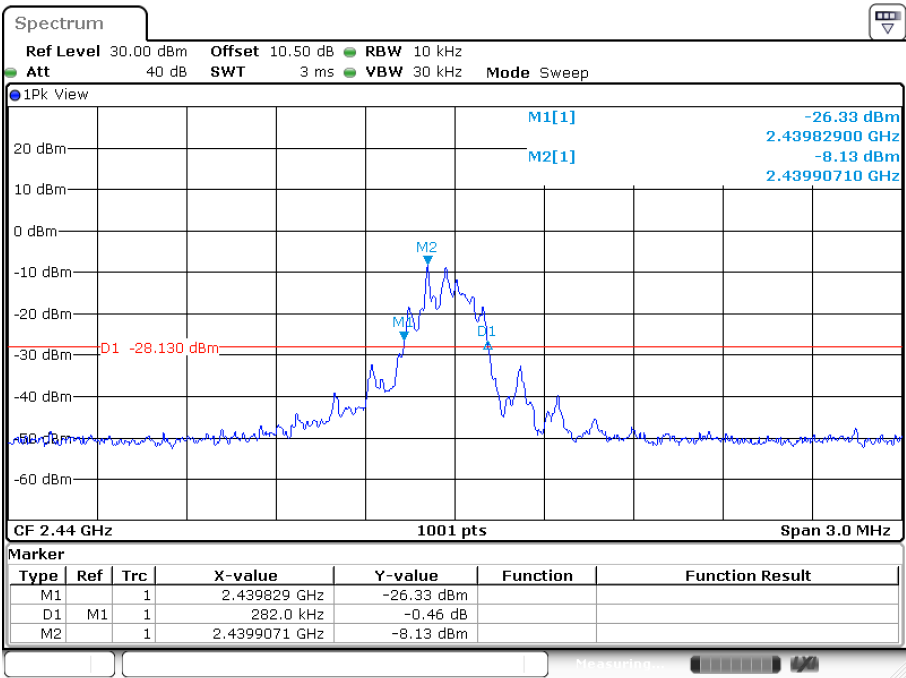
20 dB Emission Bandwidth

Low Channel



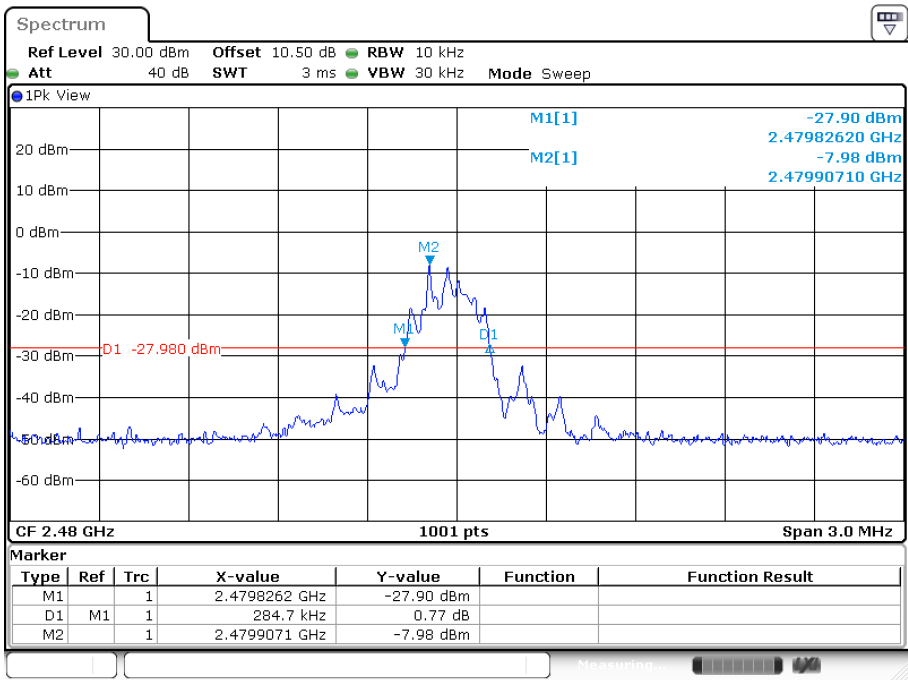
ProjectNo.:RXZ260128085 Tester:Jet
Date: 6.FEB.2026 11:07:49

Middle Channel



ProjectNo.:RXZ260128085 Tester:Jet
Date: 6.FEB.2026 11:10:26

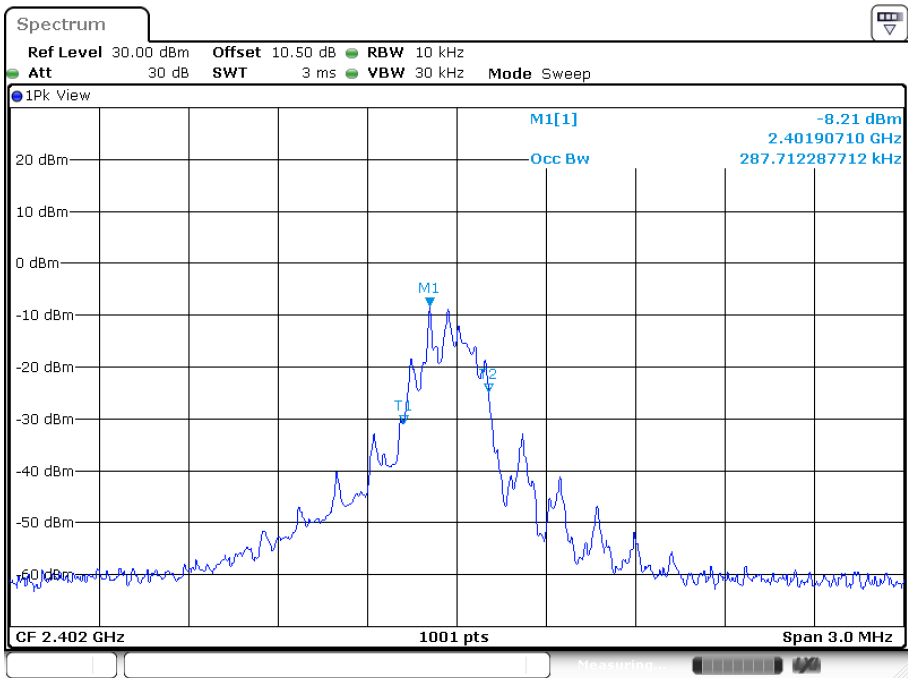
High Channel



ProjectNo.:RXZ260128085 Tester:Jet
Date: 6.FEB.2026 11:58:36

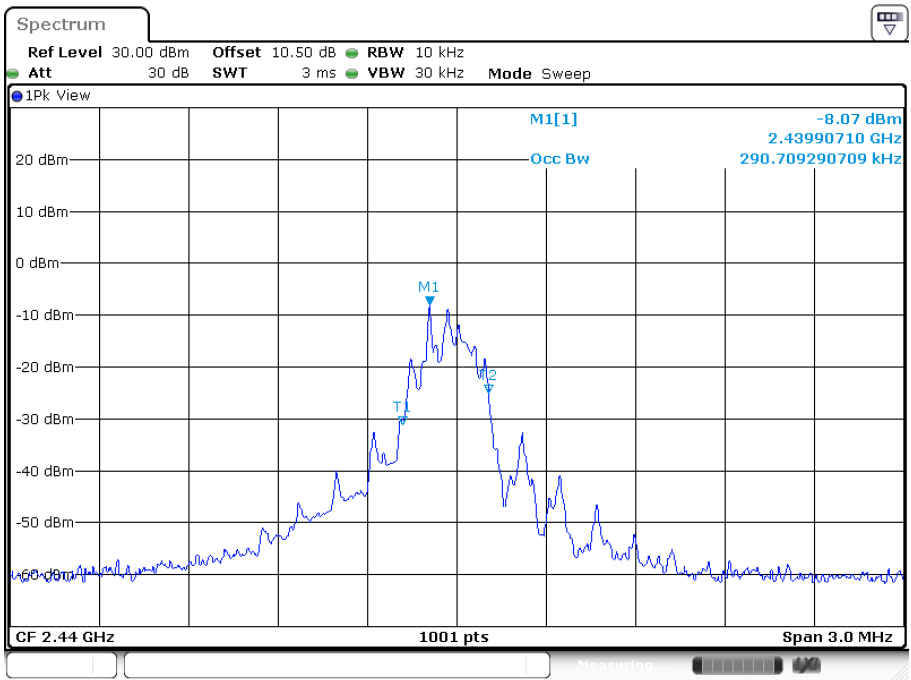
99% Bandwidth

Low Channel



ProjectNo.:RXZ260128085 Tester:Jet
Date: 6.FEB.2026 11:08:07

Middle Channel



ProjectNo.:RXZ260128085 Tester:Jet
Date: 6.FEB.2026 11:51:09

High Channel



ProjectNo.:RXZ260128085 Tester:Jet
Date: 6.FEB.2026 11:54:28

***** END OF REPORT *****