RSS-247, ISSUE 4, July 2025

RSS-GEN, ISSUE 5, February 2021 Amendment 2

For

Renesas Design Korea Inc.

7th SiliconPark, 35 Pangyo-ro 255 beon-gil Bundang-gu, Seongnam-si, Gyeonggi-do, 13486

IC: 34654-RRQ61051008

Report Type:	**Product Type:**
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Report Producer : Charlie Li

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Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
0.0	RLK250801004	RLK250801004RF08	2026-01-20	Original Report	Charlie Li

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1 General Information

1.1 Product Description for Equipment under Test (EUT)

Applicant	Renesas Design Korea Inc. 7th SiliconPark, 35 Pangyo-ro 255 beon-gil Bundang-gu, Seongnam-si, Gyeonggi-do, 13486
Manufacturer	Renesas Design Korea Inc. 7th SiliconPark, 35 Pangyo-ro 255 beon-gil Bundang-gu, Seongnam-si, Gyeonggi-do, 13486
Brand(Trade) Name	Renesas
Product (Equipment)	RRQ61051 Module
Main Model Name	RRQ61051-008
Series Model Name	N/A
Model Discrepancy	N/A
Frequency Range	IEEE 802.11b/g/n HT20/ax HE20 Mode: 2412 ~ 2462 MHz BLE(1M): 2402 ~ 2480 MHz
Maximum Conducted Peak Output Power	IEEE 802.11b Mode: 19.97 dBm (0.099W) IEEE 802.11g Mode: 19.80 dBm (0.095W) IEEE 802.11n HT20 Mode: 19.96 dBm (0.099W) IEEE 802.11ax HE20 Mode: 19.81 dBm (0.096W) BLE(1M) Mode : 1.63 dBm (0.0015W)
Modulation Technique	IEEE 802.11b Mode: DSSS IEEE 802.11g Mode: OFDM IEEE 802.11n HT20 Mode: OFDM IEEE 802.11ax HE20 Mode: OFDMA BLE(1M) Mode: GFSK
Power Operation (Voltage Range)	☐ AC 120V/60Hz ☐ Adapter ☐ By AC Power Cord ☐ PoE
	☐ DC Type ☐ Battery ☐ DC Power Supply ☐ External from USB Cable ☐ External DC Adapter
	☒ 3.3Vdc
Received Date	Aug 01, 2025
Date of Test	Sep 25, 2025 ~ Nov 01, 2025

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

RLK250801004-01 (Assigned by BACL, Linkou Laboratory).

**This device cannot run both WIFI 2.4G and WIFI 5G simultaneously.

***802.11ax mode only support full RU

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1.2 Objective

This report is prepared on behalf of Renesas Design Korea Inc. in accordance with RSS-247, Issue 4, July 2025, RSS-Gen, Issue 5, February 2021 Amendment 2 of the Innovation, Science and Economic Development Canada.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

KDB 558074 D01 DTS Meas Guidance v05r02 and RSS-247, Issue 4, July 2025, RSS-Gen, Issue 5, February 2021 Amendment 2 of the Innovation, Science and Economic Development Canada.

1.4 Statement of Compliance

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. (Linkou 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. (Linkou 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		±2.98 (dB)
RF output power, conducted		±3.73 (dB)
Power Spectral Density, conducted		±0.65 (dBm)
Occupied Bandwidth		±0.09 (%)
Unwanted Emissions, conducted		±1.03 (dB)
Emissions, radiated	9kHz~30MHz	+/- 3.13 dB
	30 MHz~1GHz	+/- 3.09 dB
	1 GHz~18 GHz	+/- 5.22 dB
	18 GHz~40 GHz	+/- 4.72 dB
Temperature		±0.04 (%)
Humidity		±0.78 (℃)

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 Data	Temperature (℃)	Relative Humidity (%)	Test Engineer
AC Line Conducted Emissions	2025/10/21	25.5	53	Cedric Xu
Radiation Spurious Emissions	2025/10/30~2025/11/01	20~24.5	45~51	Yue Zheng
Conducted Spurious Emissions	2025/09/25	24.1	46	Alan Huang
6 dB Emission Bandwidth & Occupied Bandwidth	2025/09/25	24.1	46	Alan Huang
Maximum Output Power	2025/09/25	24.1	46	Alan Huang
100 kHz Bandwidth of Frequency Band Edge	2025/09/25	24.1	46	Alan Huang
Power Spectral Density	2025/09/25	24.1	46	Alan Huang
Duty Cycle	2025/09/25	24.1	46	Alan Huang

1.7 Test Facility

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

☒ No.6, Wende 2Rd., Guishan Dist., Taoyuan City 33382, Taiwan (R.O.C.).

Bay Area Compliance Laboratories Corp. (Linkou Laboratory) is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3546) and the lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: TW3546.

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2 System Test Configuration

2.1 Description of Test Configuration

For WIFI mode, there are totally 11 channels.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

For 802.11 b/g/n20/ax20 Modes were tested with channel 1, 6 and 11.

For BLE mode, there are totally 40 channels.

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 BLE Modes were tested with channel 0, 19 and 39.

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

2.2 EUT Exercise Software

WIFI 2.4G Used “TeraTerm5” software.

BLE Used “TeraTerm5” software. & SmartSnippets_Toolbox.exe

Test Frequency		Low	Mid	High
Power Level Setting	b Mode	12	13	11
	g Mode	11	12	11
	n20 Mode	9	12	9
	ax20 Mode	10	13	10
	BLE 1M	Default	Default	Default

The worst case data rates are as follows:

802.11b: 1Mbps

802.11g: 6Mbps

802.11n HT20: MCS0

802.11ax HE20: MCS0

BLE 1M : 1 Mbps

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2.3 Test Mode

Mode 1: Full System (model: RRQ61051-008) for all test item.

2.4 Support Equipment List and Details

No.	Description	Manufacturer	Model Number
1	Notebook (Lab provided)	DELL	E6410
2	Notebook (Lab provided)	Acer	N16Q1
3	Test Development Board (Customer provided)	RENESAS	EK-RQ61 565-11-C-0001 Ver 3.1
4	DaughterBoard (Customer provided)	RENESAS	RRQ61x1 565-16-B

2.5 External Cable List and Details

No.	Description	Manufacturer	Model Number
1	USB-A to C cable (Customer provided)	VENTION	COZ

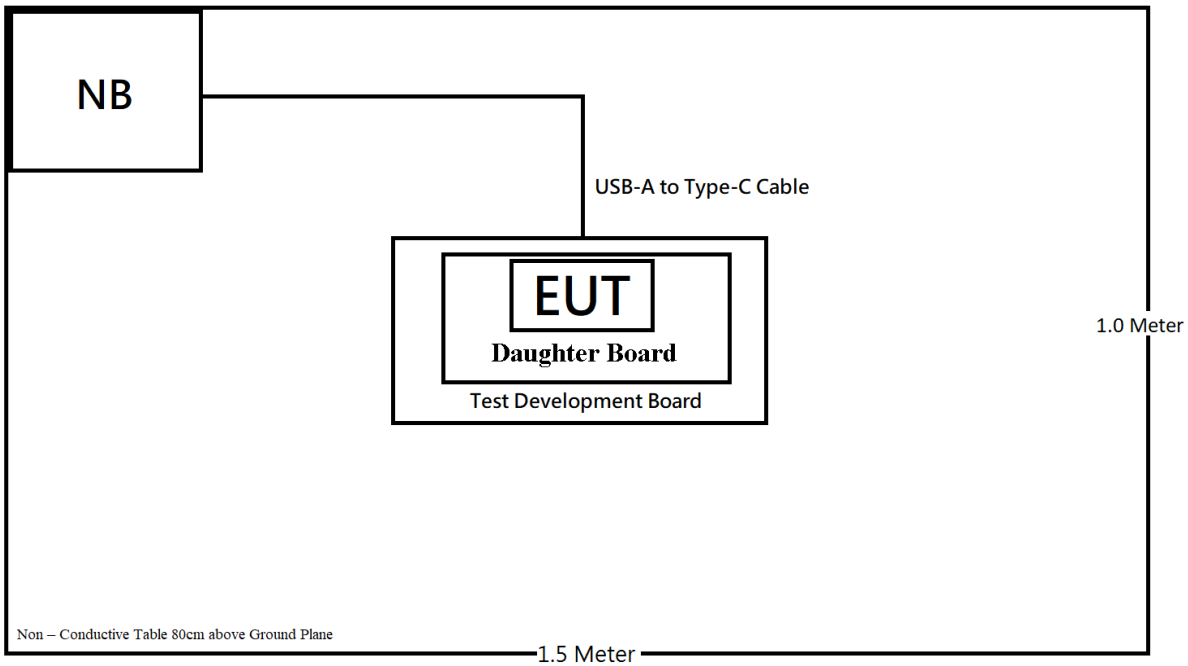
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2.6 Block Diagram of Test Setup

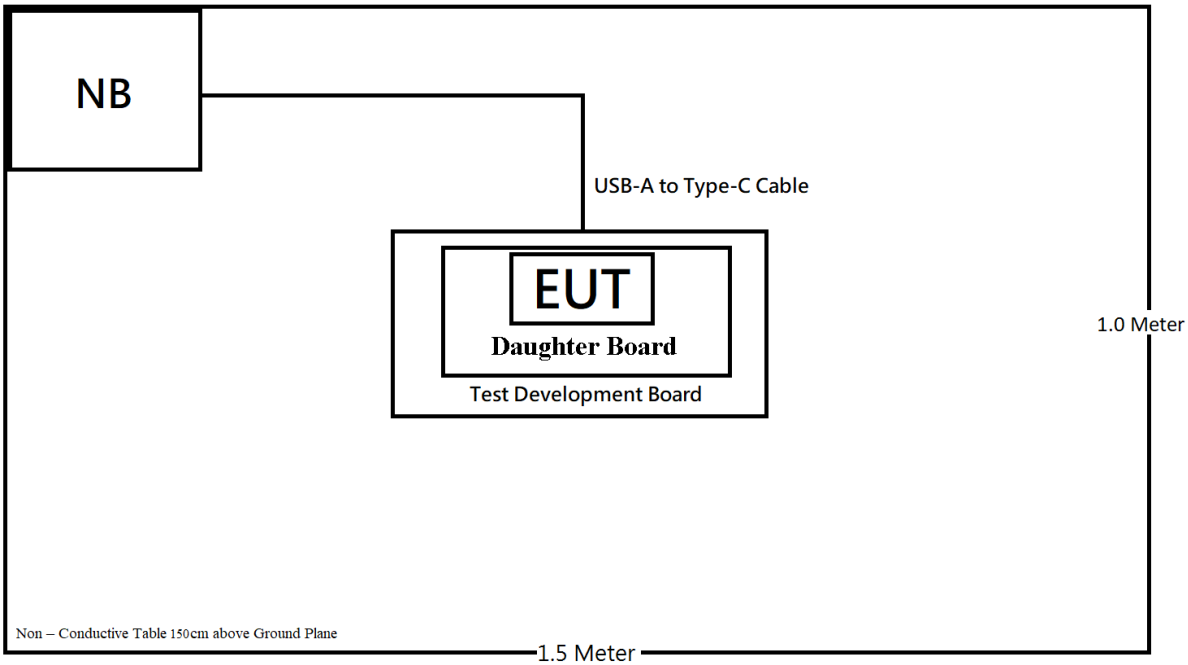
See test photographs attached in setup photos for the actual connections between EUT and support equipment.

Radiation:

Below 1GHz:

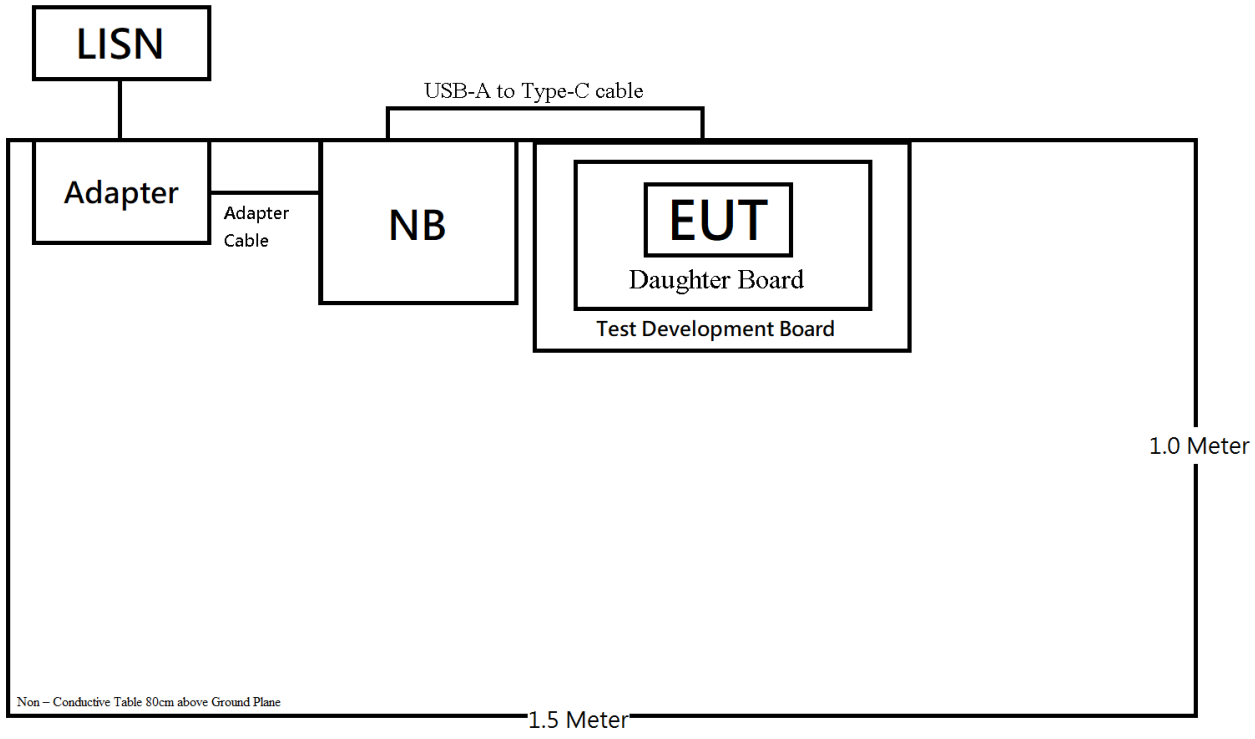


Above 1GHz:

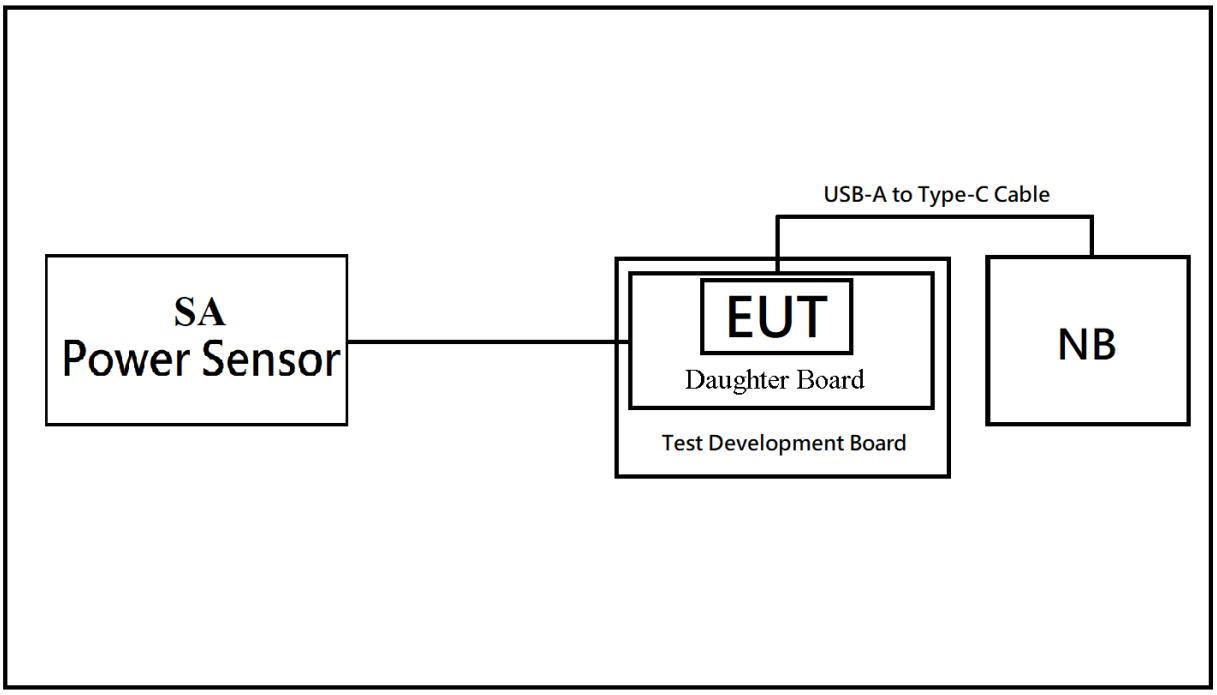


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Conduction:



Conducted:



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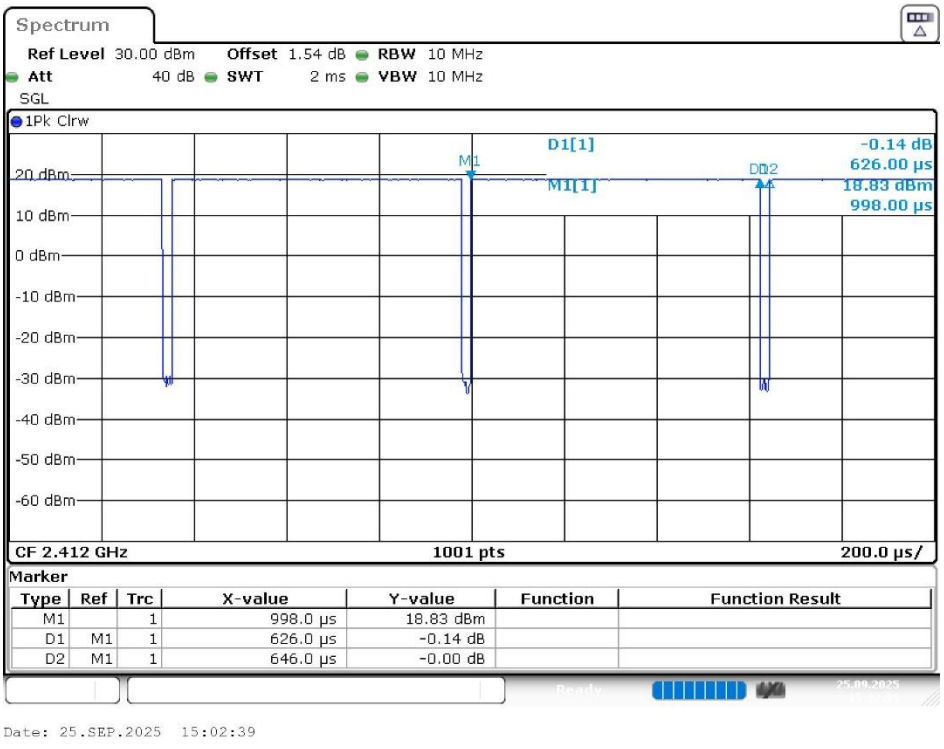
2.7 Duty Cycle

Radio Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T VBW Seting (kHz)	1/T (kHz)
802.11b	0.626	0.646	97	0.13	3	1.60
802.11g	0.696	0.722	96	0.18	3	1.44
802.11 n20	0.292	0.320	91	0.41	5	3.42
802.11 ax20	2.846	2.878	99	0.00	/	0.01
BLE(1M)	9.93	10.035	99	0.00	/	0.01

Note: Duty Cycle Correction Factor = 10*log(1/duty cycle)

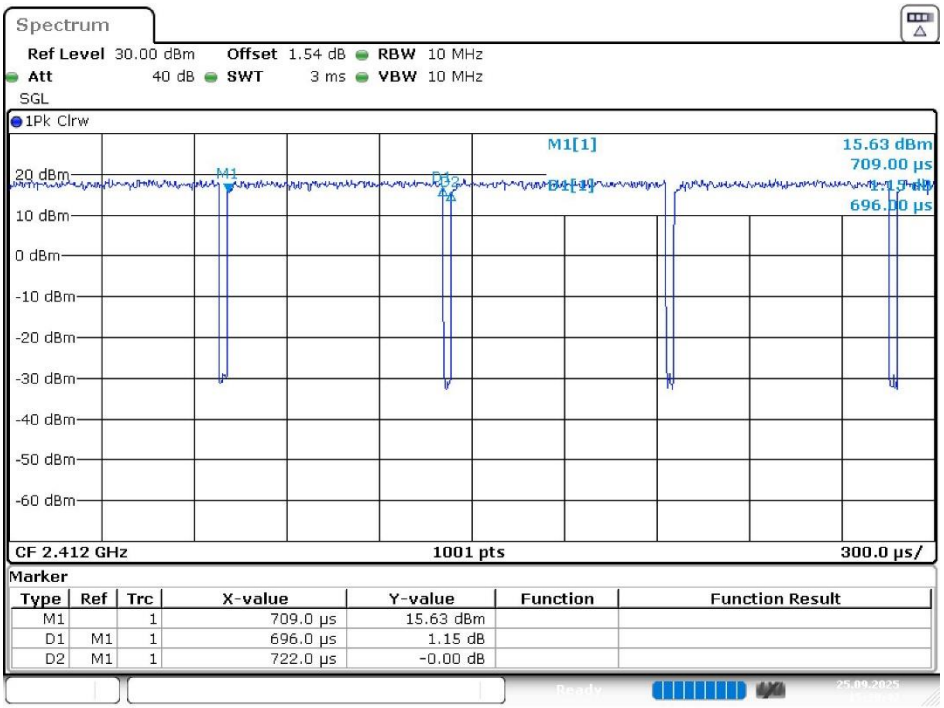
Please refer to the following plots.

b Mode



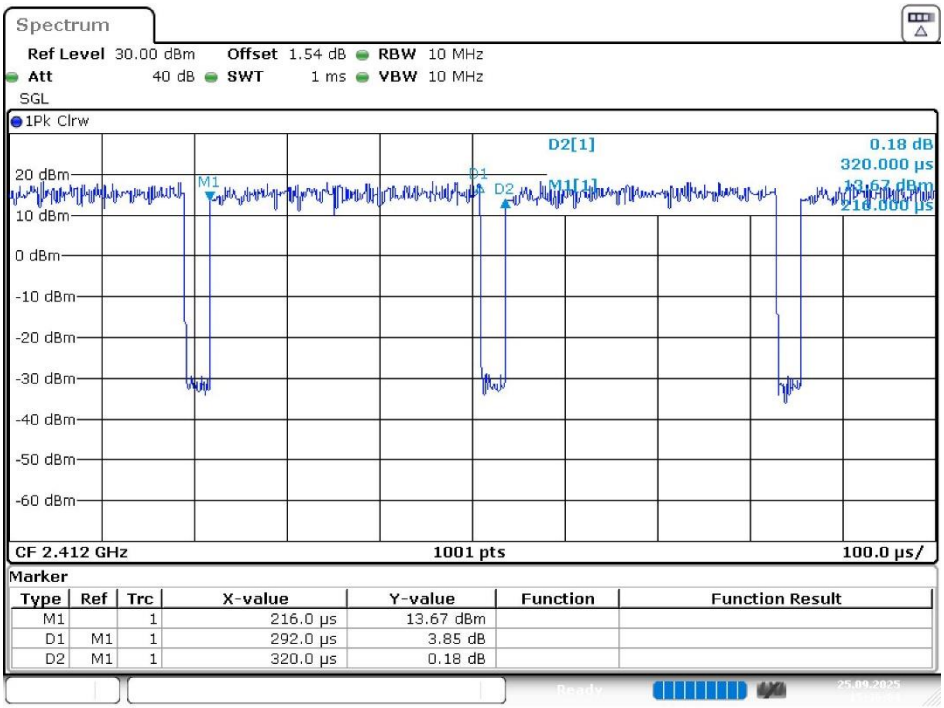
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g Mode



Date: 25.SEP.2025 15:29:42

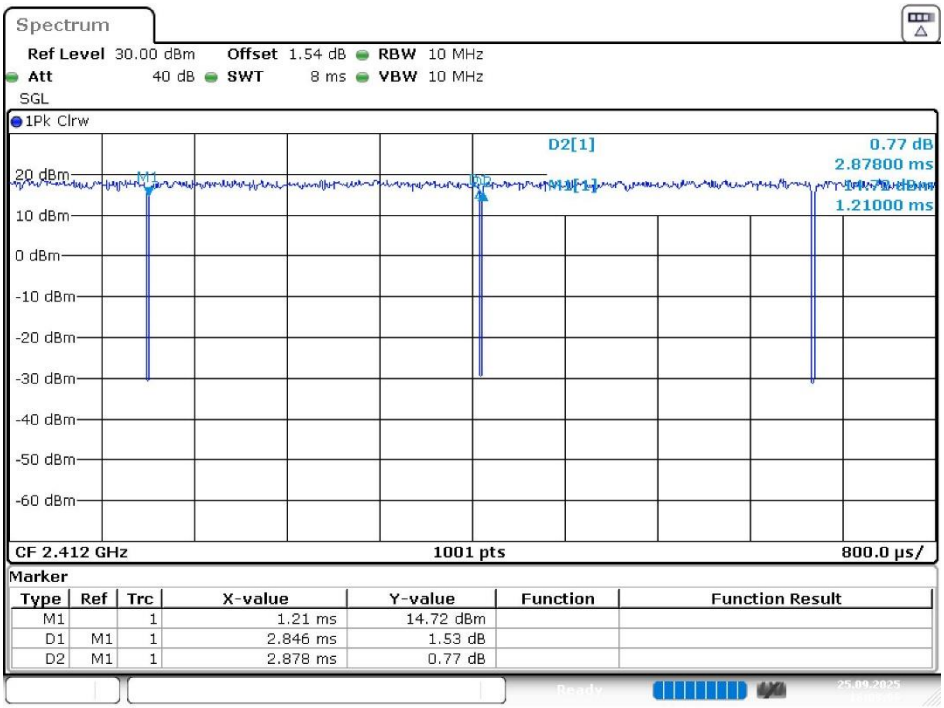
n20 Mode



Date: 25.SEP.2025 15:36:04

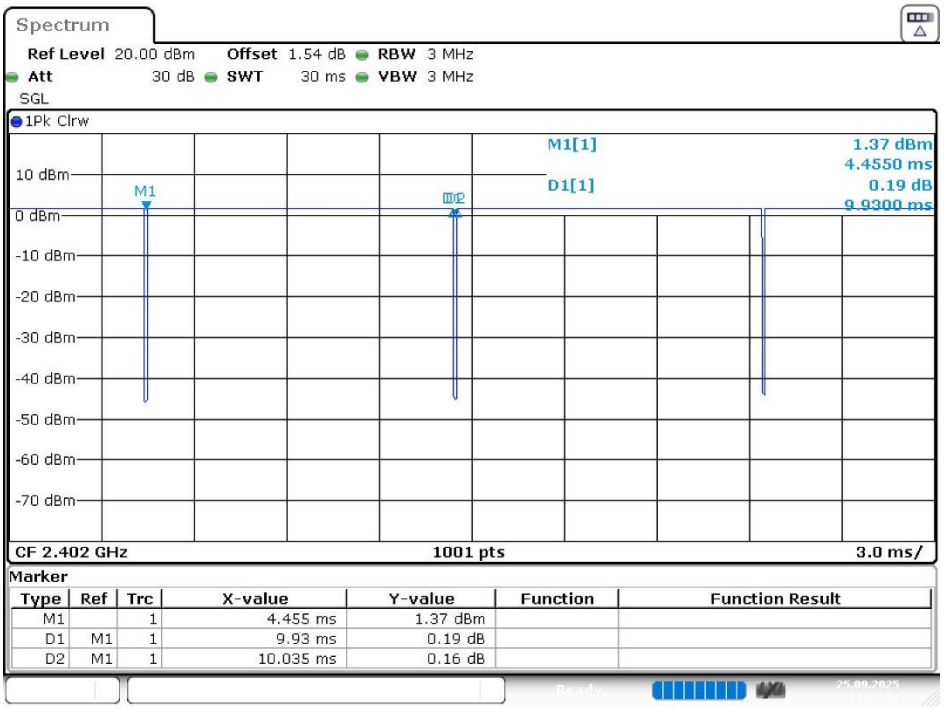
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ax20 Mode



Date: 25.SEP.2025 16:08:06

BLE (1M) Mode



Date: 25.SEP.2025 14:22:58

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3 Summary of Test Results

Rules	Description of Test	Results
RSS-Gen §6.8	Antenna Requirement	Compliance
RSS-Gen §8.8	AC Line Conducted Emissions	Compliance
RSS-247 §6.6 RSS-Gen §8.9 RSS-Gen §8.10	Spurious Emissions	Compliance
RSS-247 §6.3.1(a) RSS-Gen §6.7	6 dB Emission Bandwidth & Occupied Bandwidth	Compliance
RSS-247 §6.3.2	Maximum Peak Output Power	Compliance
RSS-247 §6.6	100 kHz Bandwidth of Frequency Band Edge	Compliance
RSS-247 §6.3.1	Power Spectral Density	Compliance

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4 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conduction Room (CON-A)					
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00432	2025/08/14	2026/08/14
ESR EMI Test Receiver	Rohde & Schwarz	ESCI7	100769	2025/04/02	2026/04/02
RF Cable	EMCI	EMCCFD300-BM-BM-3000	221013	2025/10/16	2026/10/16
Two-Line V-Network	Rohde & Schwarz	ENV216	100037	2025/09/15	2026/09/15
Software	Audix	e3 v9	E3LK-03	N.C.R	N.C.R
Radiation 3M Room (966-A)					
Bilog Antenna & 6 dB Attenuator	SUNOL SCIENCES & EMCI	JB3 & N-6-06	A111513 & AT-N0668	2025/04/11	2026/04/11
Active Loop Antenna	ETS-Lindgren	6502	0001-3322	2025/03/27	2026/03/27
Horn Antenna	ETS-Lindgren	3115	109141	2025/08/22	2026/08/22
Horn Antenna	ETS-Lindgren	3160-09	123852	2025/07/18	2026/07/18
Horn Antenna	ETS-Lindgren	3160-10	123855	2025/07/18	2026/07/18
18-40GHz Preamplifier	GLOBAL	1313-A1840	5031382	2025/04/28	2026/04/28
30M-18GHz Preamplifier	A.H. Systems	PAM-0118P	470	2025/03/25	2026/03/25
ESR EMI Test Receiver	Rohde & Schwarz	ESR3	102448	2025/10/02	2026/10/02
Spectrum Analyzer	Rohde & Schwarz	FSV40	101456	2025/06/05	2026/06/05
Microflex Cable (1m)	UTiFLEX	UFB205A-0-0360-000000	W6103	2025/08/01	2026/08/01
Microflex Cable (2m)	EMCI	EMCI06-SM-SM-2000	180515	2025/08/01	2026/08/01
Microflex Cable (8m)	UTIFLEX	UFA210A-1-3149-300300	MFR 64639 232490-001	2025/08/01	2026/08/01
Software	AUDIX	E3 V9	E3LK-01	N.C.R	N.C.R

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Conducted Room					
Cable	MTJ	MT40S	620620-MT40S-100	2024/12/26	2026/01/05
Signal and Spectrum Analyzer	Rohde & Schwarz	FSV40	101457	2024/12/04	2025/12/04
USB Wideband Power Sensor	AGILENT	U2021XA	MY54080011	2025/08/26	2026/08/26

***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

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5 RSS-GEN §6.8 – Antenna Requirements

5.1 Applicable Standard

According to RSS-Gen 6.8:

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

5.2 Antenna List and Details

Manufacturer	Model	Antenna Type	Antenna Gain
Renesas	RRQ610x1-008	PCB	-0.2 dBi

Please refer to the antenna specification for detailed information.

Unit use of a permanently attached antenna

Result: Compliance

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6 RSS-GEN §8.8 – AC Line Conducted Emissions

6.1 Applicable Standard

According to RSS-GEN §8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μH / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56 Note 1	56 to 46 Note 2
0.5-5	56	46
5-30	60	50

Note 1: Decreases with the logarithm of the frequency.

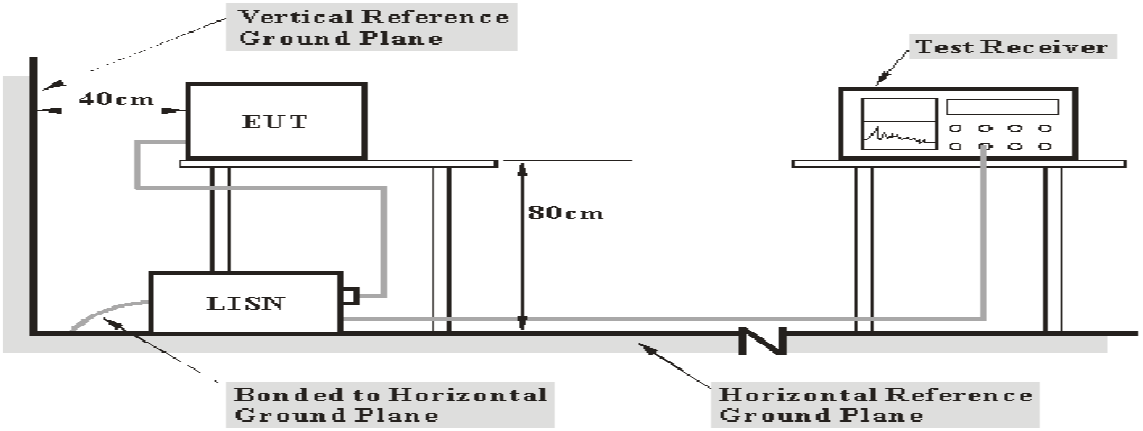
For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

(a)Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.

(b)Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

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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 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 measurement procedure. The specification used was with the RSS-GEN 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 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:

Factor = LISN VDF + Cable Loss + 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:

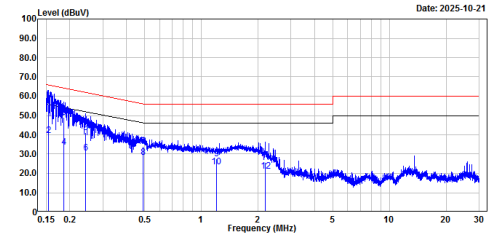
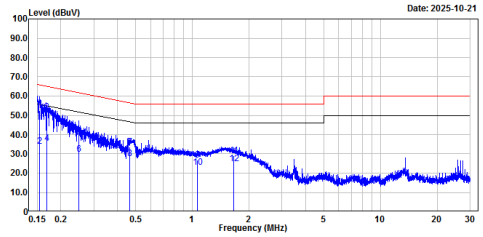
Over Limit = Level – Limit Line

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6.6 Test Results

Test Mode: Transmitting

(Worst case is 802.11b, Middle Channel)

Line	Neutral
	

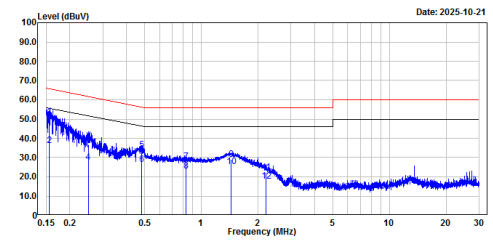
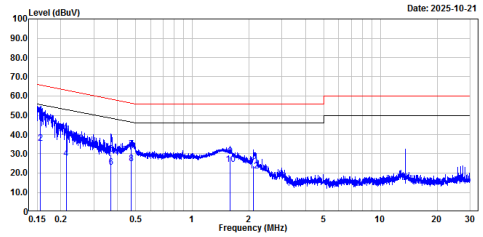
Site : Conduction
Condition: Line
Job No : RLK250801004
Test By : Cedric Xu
Power : AC 120V/60Hz
Temp.(℃)/Hum.(%RH): 23.5℃/53%
Mode : WiFi 2.4G-B-2437

	Freq	Read Level	Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.1544	35.75	55.73	19.98	65.76	-10.03	QP
2	0.1544	19.60	39.58	19.98	55.76	-16.18	Average
3	0.1860	28.96	48.94	19.98	64.22	-15.28	QP
4	0.1860	13.61	33.59	19.98	54.22	-20.63	Average
5	0.2424	21.05	41.05	20.00	62.02	-20.97	QP
6	0.2424	10.67	30.67	20.00	52.02	-21.35	Average
7	0.4913	13.95	33.98	20.03	56.15	-22.17	QP
8	0.4913	8.22	28.25	20.03	46.15	-17.90	Average
9	1.2006	7.51	27.55	20.04	56.00	-28.45	QP
10	1.2006	3.47	23.51	20.04	46.00	-22.49	Average
11	2.1826	5.47	25.53	20.06	56.00	-30.47	QP
12	2.1826	1.17	21.23	20.06	46.00	-24.77	Average

Site : Conduction
Condition: Neutral
Job No : RLK250801004
Test By : Cedric Xu
Power : AC 120V/60Hz
Temp.(℃)/Hum.(%RH): 23.5℃/53%
Mode : WiFi 2.4G-B-2437

	Freq	Read Level	Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.1538	32.28	52.29	20.01	65.79	-13.50	QP
2	0.1538	13.85	33.86	20.01	55.79	-21.93	Average
3	0.1684	31.52	51.52	20.00	65.04	-13.52	QP
4	0.1684	15.40	35.40	20.00	55.04	-19.64	Average
5	0.2492	19.39	39.37	19.98	61.78	-22.41	QP
6	0.2492	9.84	29.82	19.98	51.78	-21.96	Average
7	0.4664	13.62	33.61	19.99	56.58	-22.97	QP
8	0.4664	7.61	27.60	19.99	46.58	-18.98	Average
9	1.0660	6.86	26.87	20.01	56.00	-29.13	QP
10	1.0660	2.92	22.93	20.01	46.00	-23.07	Average
11	1.6564	9.05	29.09	20.04	56.00	-26.91	QP
12	1.6564	4.81	24.85	20.04	46.00	-21.15	Average

(Worst case is BLE 1M, Low Channel)

Line	Neutral
	

Site : Conduction
Condition: Line
Job No : RLK250801004
Test By : Cedric Xu
Power : AC 120V/60Hz
Temp.(℃)/Hum.(%RH): 23.5℃/53%
Mode : BLE 1M-2402

	Freq	Read Level	Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.1552	31.38	51.36	19.98	65.72	-14.36	QP
2	0.1552	16.16	36.14	19.98	55.72	-19.58	Average
3	0.2505	16.73	36.73	20.00	61.74	-25.01	QP
4	0.2505	7.70	27.70	20.00	51.74	-24.04	Average
5	0.4840	13.90	33.93	20.03	56.27	-22.34	QP
6	0.4840	6.25	26.28	20.03	46.27	-19.99	Average
7	0.8286	7.73	27.77	20.04	56.00	-28.23	QP
8	0.8286	3.12	23.16	20.04	46.00	-22.84	Average
9	1.4401	9.15	29.21	20.06	56.00	-26.79	QP
10	1.4401	5.11	25.17	20.06	46.00	-20.83	Average
11	2.2045	2.24	22.30	20.06	56.00	-33.70	QP
12	2.2045	-2.37	17.69	20.06	46.00	-28.31	Average

Site : Conduction
Condition: Neutral
Job No : RLK250801004
Test By : Cedric Xu
Power : AC 120V/60Hz
Temp.(℃)/Hum.(%RH): 23.5℃/53%
Mode : BLE 1M-2402

	Freq	Read Level	Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.1555	30.24	50.24	20.00	65.70	-15.46	QP
2	0.1555	15.31	35.31	20.00	55.70	-20.39	Average
3	0.2135	20.33	40.31	19.98	63.07	-22.76	QP
4	0.2135	7.66	27.64	19.98	53.07	-25.43	Average
5	0.3699	9.66	29.64	19.98	58.50	-28.86	QP
6	0.3699	2.92	22.90	19.98	48.50	-25.60	Average
7	0.4725	12.40	32.39	19.99	56.47	-24.08	QP
8	0.4725	4.90	24.89	19.99	46.47	-21.58	Average
9	1.5947	8.62	28.66	20.04	56.00	-27.34	QP
10	1.5947	4.66	24.70	20.04	46.00	-21.30	Average
11	2.1118	3.69	23.74	20.05	56.00	-32.26	QP
12	2.1118	0.99	21.04	20.05	46.00	-24.96	Average

Note:

Level = Read Level + Factor

Over Limit = Level – Limit Line

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

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

7 RSS-GEN §8.9, §8.10 – Spurious Emissions

7.1 Applicable Standard

As per RSS-Gen 8.10,

Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:

(a)The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD).

(b)Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.

(c)Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

Table 7 – Restricted frequency bands Note 1

MHz	MHz	MHz	GHz
0.090 – 0.110	16.42 – 16.423	608 – 614	4. 5 – 5. 15
0.495 – 0.505	16.69475 – 16.69525	960 – 1240	5. 35 – 5. 46
2.1735 – 2.1905	16.80425 – 16.80475	1300 – 1427	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1435 – 1626.5	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1645.5 – 1646.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1660 – 1710	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1718.8 – 1722.2	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	2200 – 2300	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2310 – 2390	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2483.5 – 2500	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2690 – 2900	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	3260 – 3267	22.01 – 23.12
8.41425 – 8.41475	162.0125 –167.17	3.332 – 3.339	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3 3458 – 3 358	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3.600 – 4.400	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4		Above 38.6
13.36 – 13.41	399.9 – 410		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

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

As per RSS-GEN §8.9: Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 5 – General field strength limits at frequencies above 30 MHz	
Frequency (MHz)	**Field Strength (μV/m at 3 m)**
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency (MHz)	**Field Strength (H-Field) (μA/m)**	**Measurement distance (m)**
9 - 490 kHz[Note 1]	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Note 2: The limit was added 51.5dB to convert the limit from dBuA/m to dBuV/m.

According to ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, 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).

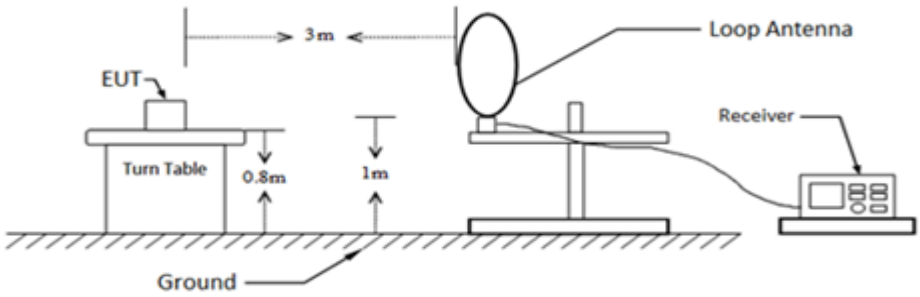
As per RSS-247 6.6,

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum device, digitally modulated device, or hybrid system is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 6.3.2, the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

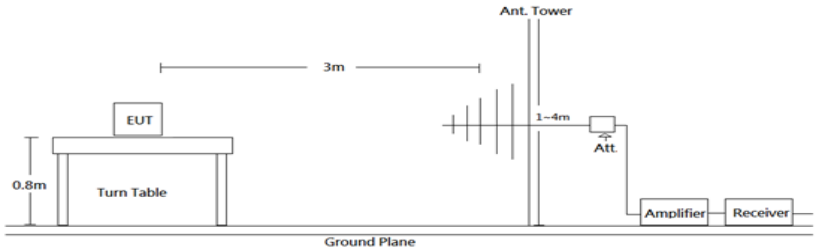
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

7.2 EUT Setup

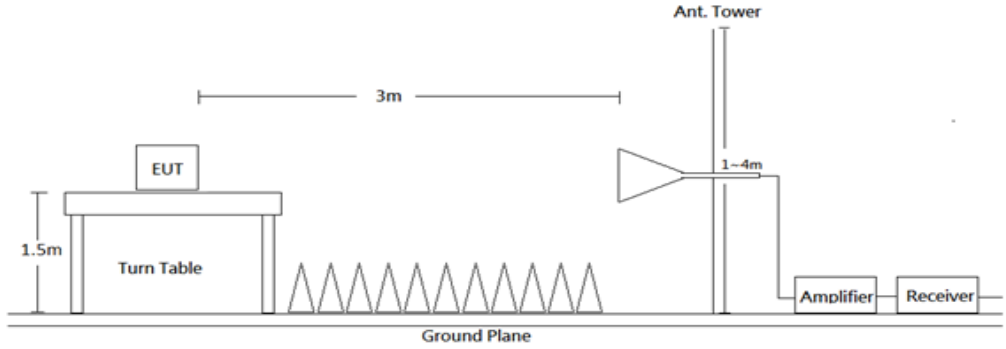
9kHz-30MHz:



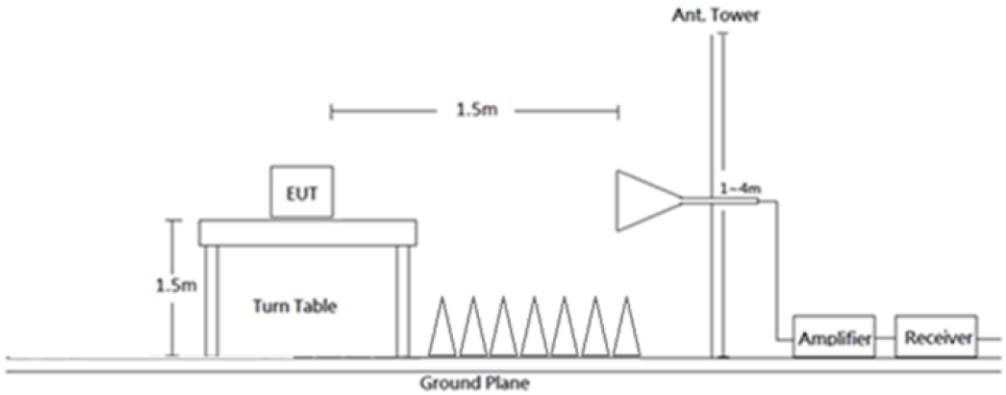
30MHz-1GHz:



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 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024. The specification used was the RSS-247 and RSS-GEN Limits.

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

7.3 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 was set with the following configurations measurement method 6.3 in ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024.

Frequency Range	RBW	VBW	Duty cycle	Measurement method	Detector
9 kHz - 150 kHz	200 Hz/300 Hz	1 kHz	/	QP/AV	QP/AV
150 kHz - 30 MHz	9 kHz/10 kHz	30 kHz	/	QP/AV	QP/AV
30-1000 MHz	120 kHz	500 kHz	/	QP	QP
Above 1 GHz	Pre-scan :				
	1 MHz	3 MHz	/	PK	PK
	1 MHz	1 kHz	>98%	Ave	PK
	1 MHz	≥ 1/Ton, not less than 1 Hz	<98%	Ave	PK
	Final measurement for emission identified during pre-scan :				
	1 MHz	3 MHz	/	PK	PK
	1 MHz	10 Hz	>98%	Ave	PK
	1 MHz	≥ 1/Ton	<98%	Ave	PK

Note: T is minimum transmission duration

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 & Over Limit Calculation

The 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:

Factor = Antenna Factor + Cable Loss – Amplifier Gain

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

Over Limit = Result – Limit

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

7.6 Test Results

Test Mode: Transmitting

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

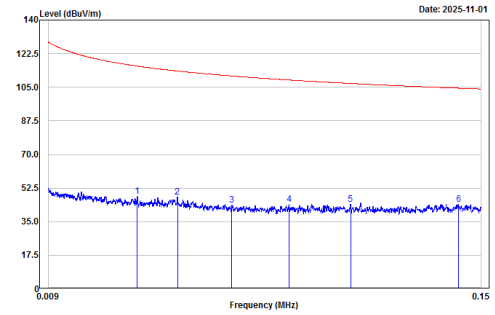
9kHz-30MHz:

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

(Worst case is 802.11b mode)

Middle channel

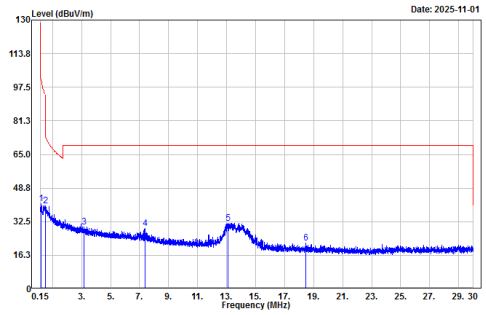
9kHz-150kHz



Site : LK-966A
Condition: 3m
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20℃/ 45%
Memo : 11B-TX-2437
RBW/VBW : QP: 300Hz/1K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.038	35.78	12.48	48.26	116.02	-67.76	QP
2	0.051	34.65	13.14	47.79	113.44	-65.65	QP
3	0.069	31.85	11.71	43.56	110.85	-67.29	QP
4	0.087	32.22	11.62	43.84	108.77	-64.93	QP
5	0.107	32.22	11.64	43.86	106.98	-63.12	QP
6	0.143	32.37	11.81	44.18	104.52	-60.34	QP

150kHz-30MHz



Site : LK-966A
Condition: 3m
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20℃/ 45%
Memo : 11B-TX-2437
RBW/VBW : QP: 10K/30K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.201	29.01	12.10	41.11	101.55	-60.44	QP
2	0.499	28.44	11.70	40.14	73.64	-33.50	QP
3	3.165	19.05	10.84	29.89	69.54	-39.65	QP
4	7.368	17.45	11.89	29.34	69.54	-40.20	QP
5	13.111	20.02	11.72	31.74	69.54	-37.80	QP
6	18.481	10.25	12.00	22.25	69.54	-47.29	QP

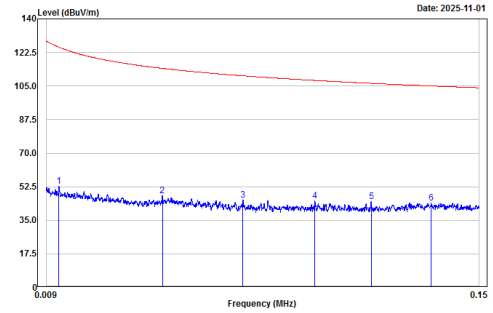
Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

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

(Worst case is BLE(1M) mode)

Low channel

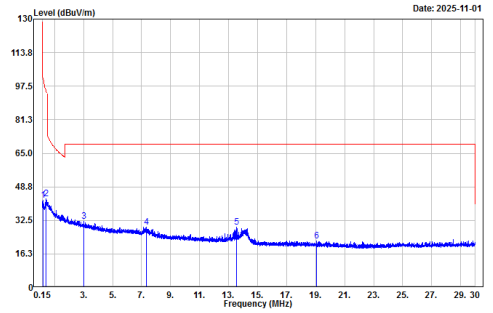
9kHz-150kHz




```
Site     : LK-966A
Condition: 3m
Job No   : RLK250801004
Model    : RRQ61051-008
Power    : From Test Development Board.
Tester   : Yue
Temp./ Hum.: 20℃/ 45%
Memo     : BLE-1M-TX-2402
RBW/VBW  : QP: 300Hz/1K
```

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.013	39.19	13.49	52.68	125.25	-72.57	QP
2	0.047	34.73	13.01	47.74	114.20	-66.46	QP
3	0.073	34.08	11.52	45.60	110.33	-64.73	QP
4	0.096	33.54	11.67	45.21	107.92	-62.71	QP
5	0.115	32.92	11.67	44.59	106.40	-61.81	QP
6	0.134	32.38	11.77	44.15	105.04	-60.89	QP

150kHz-30MHz




```
Site     : LK-966A
Condition: 3m
Job No   : RLK250801004
Model    : RRQ61051-008
Power    : From Test Development Board.
Tester   : Yue
Temp./ Hum.: 20℃/ 45%
Memo     : BLE-1M-TX-2402
RBW/VBW  : QP: 10K/30K
```

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.210	30.09	12.07	42.16	101.17	-59.01	QP
2	0.404	31.25	11.80	43.05	95.48	-52.43	QP
3	3.004	21.36	10.82	32.18	69.54	-37.36	QP
4	7.344	17.42	11.89	29.31	69.54	-40.23	QP
5	13.544	17.60	11.64	29.24	69.54	-40.30	QP
6	19.069	10.60	12.00	22.60	69.54	-46.94	QP

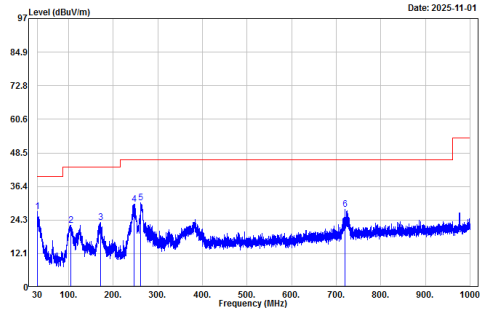
Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

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

30MHz-1GHz:

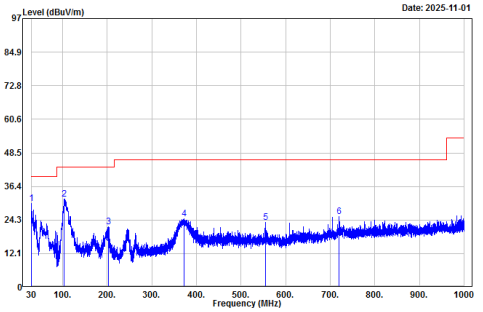
(worst case is 802.11b mode)

Middle channel	
Horizontal	**Vertical**



Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20℃/ 45%
Memo : 11B-TX-2437
RBW/VBW : QP: 120K/500K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	30.291	36.02	-8.67	27.35	40.00	-12.65	QP
2	104.981	42.61	-20.21	22.40	43.50	-21.10	QP
3	172.105	44.14	-20.74	23.40	43.50	-20.10	QP
4	247.571	51.45	-21.37	30.08	46.00	-15.92	QP
5	262.121	51.08	-20.64	30.44	46.00	-15.56	QP
6	720.058	39.59	-11.36	28.23	46.00	-17.77	QP



Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20℃/ 45%
Memo : 11B-TX-2437
RBW/VBW : QP: 120K/500K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	30.679	38.97	-8.77	30.20	40.00	-9.80	QP
2	104.205	52.32	-20.43	31.89	43.50	-11.61	QP
3	202.951	42.94	-21.01	21.93	43.50	-21.57	QP
4	373.089	43.15	-18.35	24.80	46.00	-21.20	QP
5	554.964	37.67	-14.30	23.37	46.00	-22.63	QP
6	720.058	36.73	-11.36	25.37	46.00	-20.63	QP

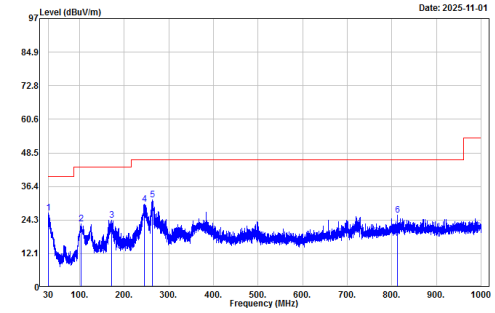
Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

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

(Worst case is BLE(1M) mode)

Low channel

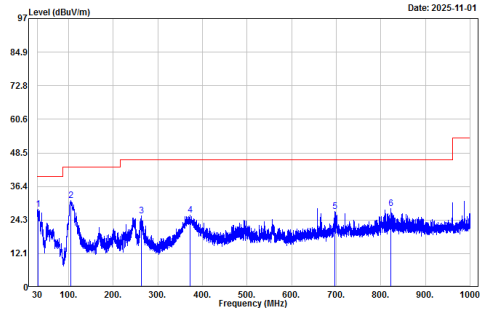
Horizontal




```
Site     : LK-966A
Condition: 3m horizontal
Job No   : RLK250801004
Model    : RRQ61051-008
Power    : From Test Development Board.
Tester   : Yue
Temp./ Hum.: 20℃/ 45%
Memo     : BLE-1M-TX-2402
RBW/VBW  : QP: 120K/500K
```

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	30.679	35.65	-8.77	26.88	40.00	-13.12	QP
2	102.847	43.70	-20.92	22.78	43.50	-20.72	QP
3	171.620	44.85	-20.69	24.16	43.50	-19.34	QP
4	246.019	51.28	-21.33	29.95	46.00	-16.05	QP
5	263.479	51.92	-20.43	31.49	46.00	-14.51	QP
6	812.208	36.08	-10.19	25.89	46.00	-20.11	QP

Vertical




```
Site     : LK-966A
Condition: 3m vertical
Job No   : RLK250801004
Model    : RRQ61051-008
Power    : From Test Development Board.
Tester   : Yue
Temp./ Hum.: 20℃/ 45%
Memo     : BLE-1M-TX-2402
RBW/VBW  : QP: 120K/500K
```

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	31.358	37.42	-9.23	28.19	40.00	-11.81	QP
2	105.369	51.42	-20.15	31.27	43.50	-12.23	QP
3	263.867	46.23	-20.37	25.86	46.00	-20.14	QP
4	371.731	44.45	-18.38	26.07	46.00	-19.93	QP
5	697.069	39.24	-12.01	27.23	46.00	-18.77	QP
6	822.199	38.54	-10.08	28.46	46.00	-17.54	QP

Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

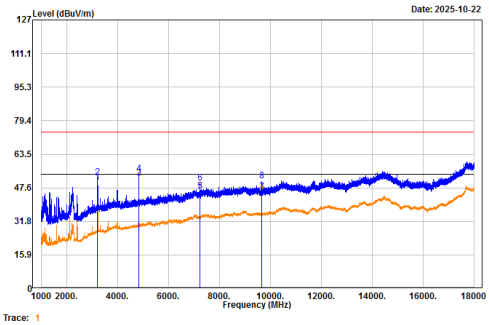
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

802.11b Mode:

1GHz-18GHz:

Low channel

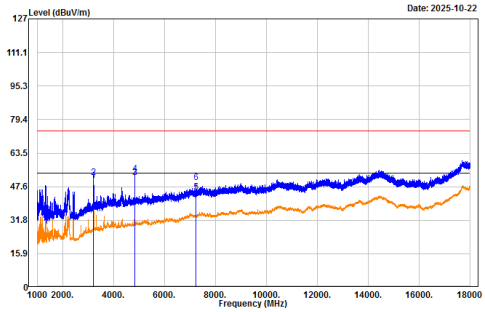
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11B-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3215.667	54.72	-4.36	50.36	54.00	-3.64	Average
2	3215.667	57.06	-4.36	52.70	74.00	-21.30	Peak
3	4824.000	52.87	-0.56	52.31	54.00	-1.69	Average
4	4824.000	55.00	-0.56	54.44	74.00	-19.56	Peak
5	7236.000	40.07	6.03	46.10	54.00	-7.90	Average
6	7236.000	44.04	6.03	50.07	74.00	-23.93	Peak
7	9648.000	37.35	8.36	45.71	54.00	-8.29	Average
8	9648.000	42.53	8.36	50.89	74.00	-23.11	Peak

Vertical

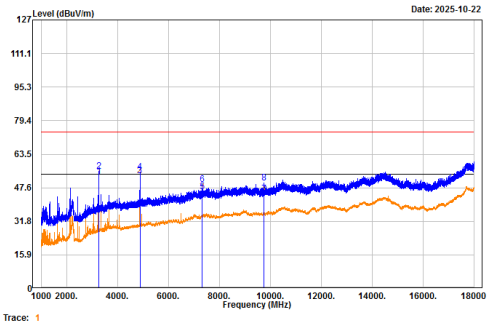


Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11B-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3215.667	54.96	-4.36	50.60	54.00	-3.40	Average
2	3215.667	56.21	-4.36	51.85	74.00	-22.15	Peak
3	4824.000	52.67	-0.56	52.11	54.00	-1.89	Average
4	4824.000	54.39	-0.56	53.83	74.00	-20.17	Peak
5	7236.000	39.06	6.03	45.09	54.00	-8.91	Average
6	7236.000	43.43	6.03	49.46	74.00	-24.54	Peak

Middle channel

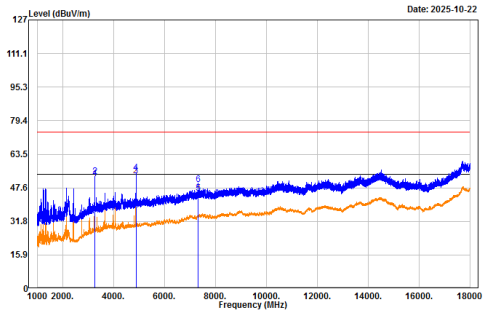
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11B-TX-2437
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3249.100	57.18	-4.15	53.03	54.00	-0.97	Average
2	3249.100	59.39	-4.15	55.24	74.00	-18.76	Peak
3	4874.000	53.61	-0.27	53.34	54.00	-0.66	Average
4	4874.000	55.27	-0.27	55.00	74.00	-19.00	Peak
5	7311.000	39.60	6.27	45.87	54.00	-8.13	Average
6	7311.000	42.88	6.27	49.15	74.00	-24.85	Peak
7	9748.000	35.75	8.82	44.57	54.00	-9.43	Average
8	9748.000	41.10	8.82	49.92	74.00	-24.08	Peak

Vertical

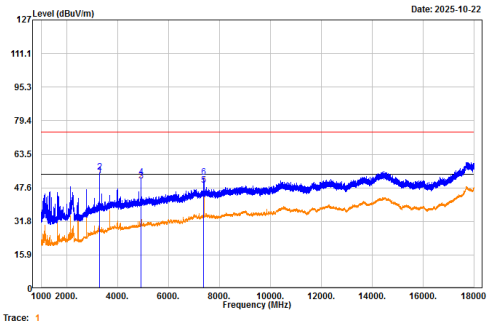


Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11B-TX-2437
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3249.198	56.06	-4.14	51.92	54.00	-2.08	Average
2	3249.198	57.24	-4.14	53.10	74.00	-20.90	Peak
3	4874.000	53.54	-0.27	53.27	54.00	-0.73	Average
4	4874.000	55.10	-0.27	54.83	74.00	-19.17	Peak
5	7311.000	38.77	6.27	45.04	54.00	-8.96	Average
6	7311.000	42.78	6.27	49.05	74.00	-24.95	Peak

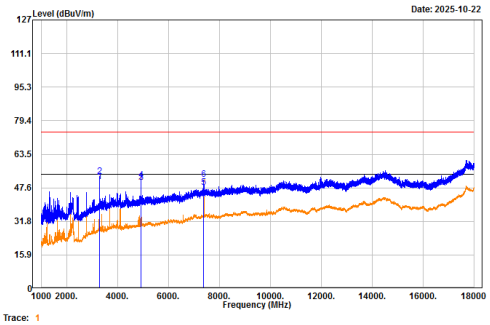
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High channel	
Horizontal	**Vertical**



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11B-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3282.533	57.49	-4.04	53.45	54.00	-0.55	Average
2	3282.533	59.24	-4.04	55.20	74.00	-18.80	Peak
3	4924.000	51.06	-0.08	50.98	54.00	-3.02	Average
4	4924.000	52.70	-0.08	52.62	74.00	-21.38	Peak
5	7386.000	42.41	6.39	48.80	54.00	-5.20	Average
6	7386.000	46.43	6.39	52.82	74.00	-21.18	Peak



Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11B-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3282.533	54.78	-4.04	50.74	54.00	-3.26	Average
2	3282.533	56.96	-4.04	52.92	74.00	-21.08	Peak
3	4924.000	50.42	-0.08	50.34	54.00	-3.66	Average
4	4924.000	51.51	-0.08	51.43	74.00	-22.57	Peak
5	7386.000	41.44	6.39	47.83	54.00	-6.17	Average
6	7386.000	45.28	6.39	51.67	74.00	-22.33	Peak

Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

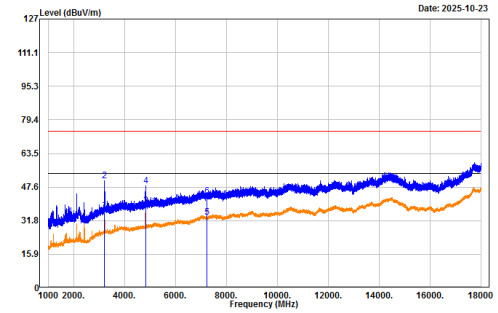
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802.11g Mode:

1GHz-18GHz:

Low channel

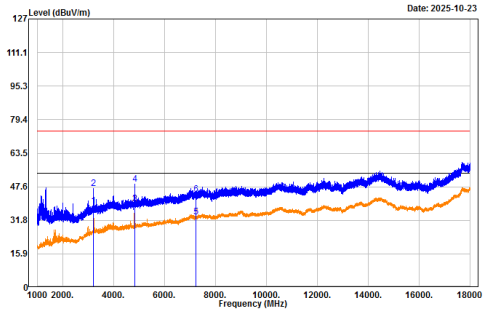
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : 11G-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3215.667	41.04	-4.36	36.68	54.00	-17.32	Average
2	3215.667	55.08	-4.36	50.72	74.00	-23.28	Peak
3	4824.000	39.32	-0.56	38.76	54.00	-15.24	Average
4	4824.000	48.61	-0.56	48.05	74.00	-25.95	Peak
5	7236.000	27.31	6.03	33.34	54.00	-20.66	Average
6	7236.000	37.27	6.03	43.30	74.00	-30.70	Peak

Vertical

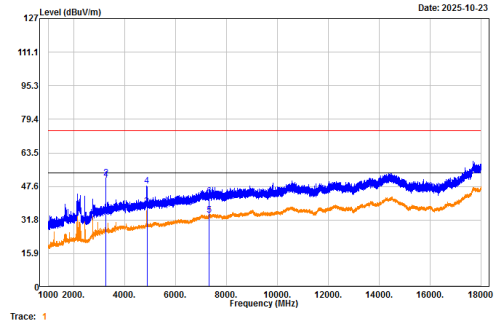


Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : 11G-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3216.233	43.06	-4.35	38.71	54.00	-15.29	Average
2	3216.233	51.10	-4.35	46.75	74.00	-27.25	Peak
3	4824.000	40.12	-0.56	39.56	54.00	-14.44	Average
4	4824.000	49.54	-0.56	48.98	74.00	-25.02	Peak
5	7236.000	27.22	6.03	33.25	54.00	-20.75	Average
6	7236.000	38.00	6.03	44.03	74.00	-29.97	Peak

Middle channel

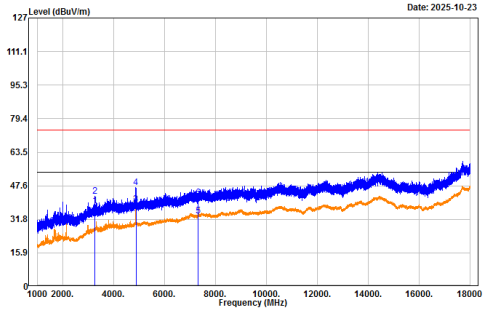
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : 11G-TX-2437
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3249.100	54.78	-4.15	50.63	54.00	-3.37	Average
2	3249.100	55.95	-4.15	51.80	74.00	-22.20	Peak
3	4874.000	38.49	-0.27	38.22	54.00	-15.78	Average
4	4874.000	47.95	-0.27	47.68	74.00	-26.32	Peak
5	7311.000	27.65	6.27	33.92	54.00	-20.08	Average
6	7311.000	36.92	6.27	43.19	74.00	-30.81	Peak

Vertical

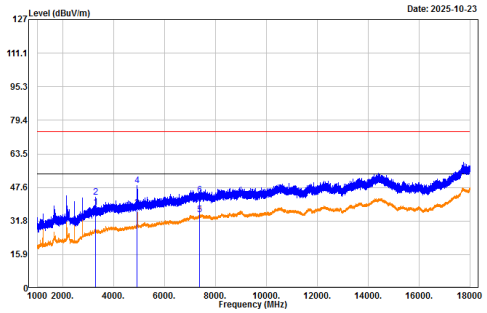


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : 11G-TX-2437
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3249.100	42.28	-4.15	38.13	54.00	-15.87	Average
2	3249.100	46.82	-4.15	42.67	74.00	-31.33	Peak
3	4874.000	39.00	-0.27	38.73	54.00	-15.27	Average
4	4874.000	46.91	-0.27	46.64	74.00	-27.36	Peak
5	7311.000	27.16	6.27	33.43	54.00	-20.57	Average
6	7311.000	35.86	6.27	42.13	74.00	-31.87	Peak

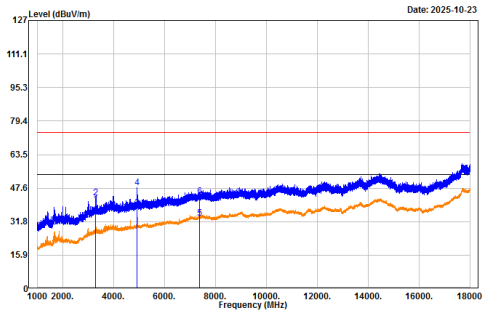
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High channel	
Horizontal	**Vertical**



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : 11G-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3282.533	42.13	-4.04	38.09	54.00	-15.91	Average
2	3282.533	47.06	-4.04	43.02	74.00	-30.98	Peak
3	4924.000	37.96	-0.08	37.88	54.00	-16.12	Average
4	4924.000	48.51	-0.08	48.43	74.00	-25.57	Peak
5	7386.000	28.40	6.39	34.79	54.00	-19.21	Average
6	7386.000	37.71	6.39	44.10	74.00	-29.90	Peak



Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : 11G-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3282.533	44.03	-4.04	39.99	54.00	-14.01	Average
2	3282.533	47.18	-4.04	43.14	74.00	-30.86	Peak
3	4924.000	38.31	-0.08	38.23	54.00	-15.77	Average
4	4924.000	47.92	-0.08	47.84	74.00	-26.16	Peak
5	7386.000	27.02	6.39	33.41	54.00	-20.59	Average
6	7386.000	37.35	6.39	43.74	74.00	-30.26	Peak

Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

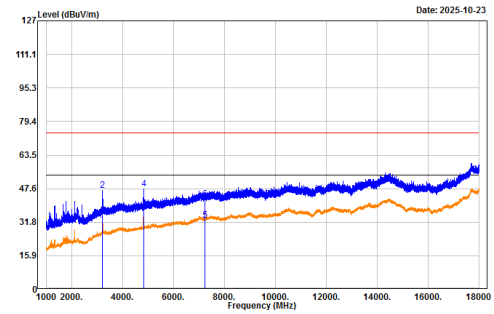
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802.11n HT20 Mode:

1GHz-18GHz:

Low channel

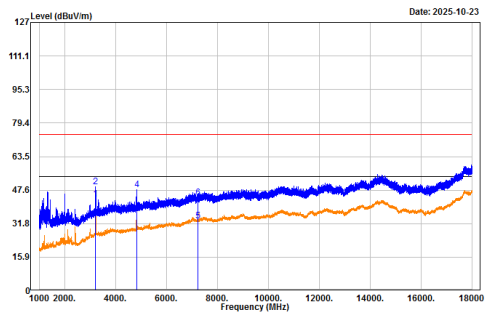
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : N20-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3215.667	39.72	-4.36	35.36	54.00	-18.64	Average
2	3215.667	51.08	-4.36	46.72	74.00	-27.28	Peak
3	4824.000	37.15	-0.56	36.59	54.00	-17.41	Average
4	4824.000	48.13	-0.56	47.57	74.00	-26.43	Peak
5	7236.000	26.77	6.03	32.80	54.00	-21.20	Average
6	7236.000	36.54	6.03	42.57	74.00	-31.43	Peak

Vertical

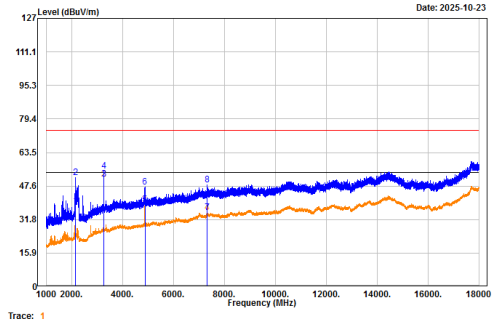


Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : N20-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3215.667	47.62	-4.36	43.26	54.00	-10.74	Average
2	3215.667	53.60	-4.36	49.24	74.00	-24.76	Peak
3	4824.000	37.02	-0.56	36.46	54.00	-17.54	Average
4	4824.000	48.26	-0.56	47.70	74.00	-26.30	Peak
5	7236.000	26.93	6.03	32.96	54.00	-21.04	Average
6	7236.000	38.09	6.03	44.12	74.00	-29.88	Peak

Middle channel

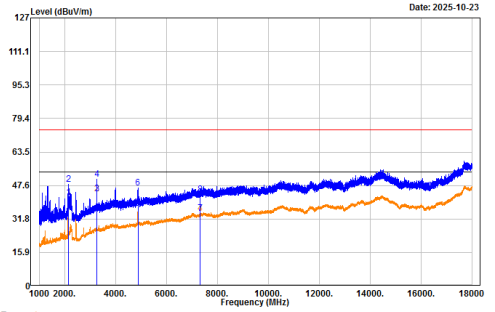
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : N20-TX-2437
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2132.200	47.36	-8.99	38.37	54.00	-15.63	Average
2	2132.200	60.47	-8.99	51.48	74.00	-22.52	Peak
3	3249.100	55.15	-4.15	51.00	54.00	-3.00	Average
4	3249.100	58.73	-4.15	54.58	74.00	-19.42	Peak
5	4874.000	39.31	-0.27	39.04	54.00	-14.96	Average
6	4874.000	47.45	-0.27	47.18	74.00	-26.82	Peak
7	7311.000	28.97	6.27	35.24	54.00	-18.76	Average
8	7311.000	41.76	6.27	48.03	74.00	-25.97	Peak

Vertical

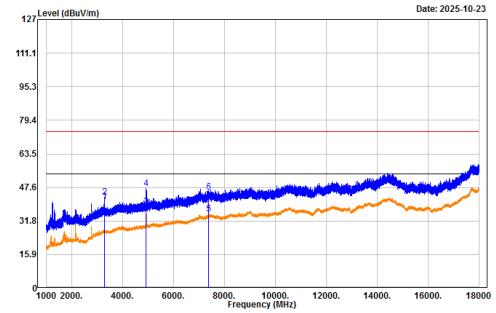


Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : N20-TX-2437
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2132.200	51.13	-8.99	42.14	54.00	-11.86	Average
2	2132.200	57.16	-8.99	48.17	74.00	-25.83	Peak
3	3249.100	48.02	-4.15	43.87	54.00	-10.13	Average
4	3249.100	54.70	-4.15	50.55	74.00	-23.45	Peak
5	4874.000	37.15	-0.27	36.88	54.00	-17.12	Average
6	4874.000	46.84	-0.27	46.57	74.00	-27.43	Peak
7	7311.000	28.06	6.27	34.33	54.00	-19.67	Average
8	7311.000	37.02	6.27	43.29	74.00	-30.71	Peak

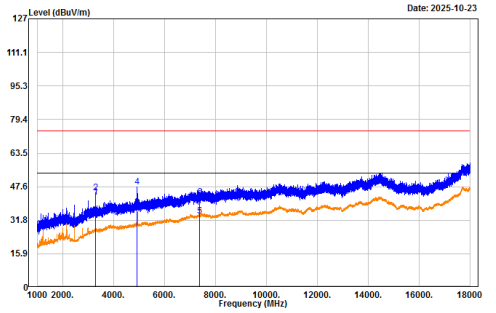
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

High channel	
Horizontal	**Vertical**



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : N20-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3282.533	44.91	-4.04	40.87	54.00	-13.13	Average
2	3282.533	46.93	-4.04	42.89	74.00	-31.11	Peak
3	4924.000	38.48	-0.08	38.40	54.00	-15.60	Average
4	4924.000	47.07	-0.08	46.99	74.00	-27.01	Peak
5	7386.000	28.75	6.39	35.14	54.00	-18.86	Average
6	7386.000	38.89	6.39	45.28	74.00	-28.72	Peak



Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : N20-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3282.533	46.80	-4.04	42.76	54.00	-11.24	Average
2	3282.533	48.71	-4.04	44.67	74.00	-29.33	Peak
3	4924.000	37.86	-0.08	37.78	54.00	-16.22	Average
4	4924.000	47.68	-0.08	47.60	74.00	-26.40	Peak
5	7386.000	27.46	6.39	33.85	54.00	-20.15	Average
6	7386.000	36.44	6.39	42.83	74.00	-31.17	Peak

Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

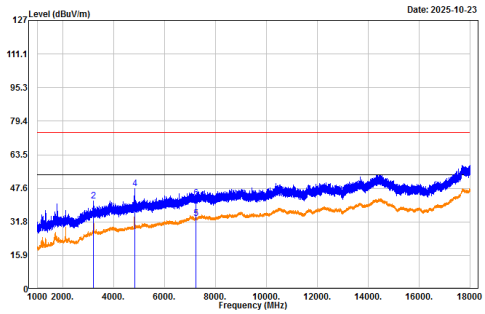
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802.11ax HE20 Mode:

1GHz-18GHz:

Low channel

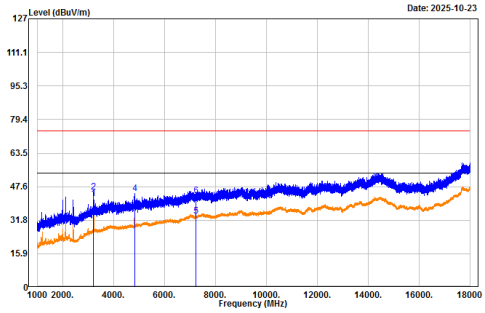
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : AX20-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3215.667	39.01	-4.36	34.65	54.00	-19.35	Average
2	3215.667	45.88	-4.36	41.52	74.00	-32.48	Peak
3	4824.000	37.67	-0.56	37.11	54.00	-16.89	Average
4	4824.000	47.99	-0.56	47.43	74.00	-26.57	Peak
5	7236.000	27.21	6.03	33.24	54.00	-20.76	Average
6	7236.000	36.93	6.03	42.96	74.00	-31.04	Peak

Vertical

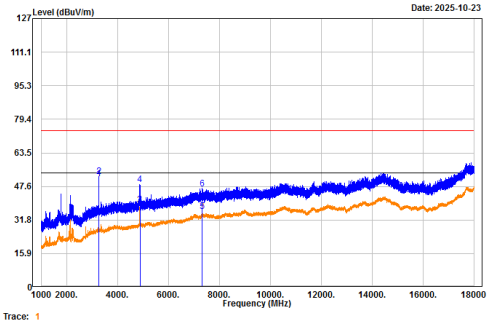


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : AX20-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3215.667	46.39	-4.36	42.03	54.00	-11.97	Average
2	3215.667	49.60	-4.36	45.24	74.00	-28.76	Peak
3	4824.000	36.67	-0.56	36.11	54.00	-17.89	Average
4	4824.000	45.12	-0.56	44.56	74.00	-29.44	Peak
5	7236.000	27.82	6.03	33.85	54.00	-20.15	Average
6	7236.000	37.47	6.03	43.50	74.00	-30.50	Peak

Middle channel

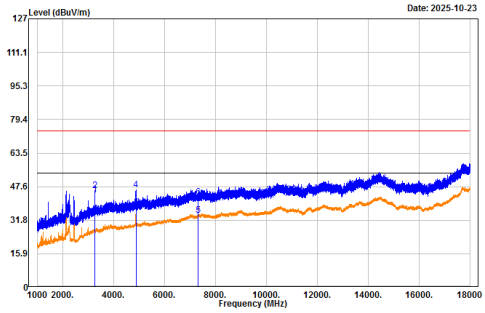
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : AX20-TX-2437
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3249.100	55.45	-4.15	51.30	54.00	-2.70	Average
2	3249.100	56.56	-4.15	52.41	74.00	-21.59	Peak
3	4874.000	39.32	-0.27	39.05	54.00	-14.95	Average
4	4874.000	48.92	-0.27	48.65	74.00	-25.35	Peak
5	7311.000	29.48	6.27	35.75	54.00	-18.25	Average
6	7311.000	40.04	6.27	46.31	74.00	-27.69	Peak

Vertical

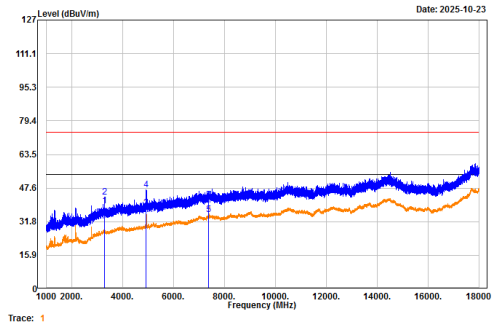


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : AX20-TX-2437
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3249.100	47.72	-4.15	43.57	54.00	-10.43	Average
2	3249.100	49.88	-4.15	45.73	74.00	-28.27	Peak
3	4874.000	36.24	-0.27	35.97	54.00	-18.03	Average
4	4874.000	46.38	-0.27	46.11	74.00	-27.89	Peak
5	7311.000	27.79	6.27	34.06	54.00	-19.94	Average
6	7311.000	36.30	6.27	42.57	74.00	-31.43	Peak

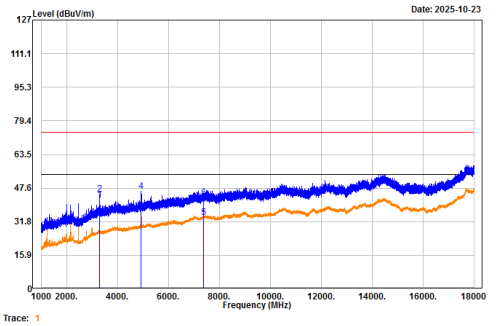
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High channel	
Horizontal	**Vertical**



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : AX20-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3282.533	43.34	-4.04	39.30	54.00	-14.70	Average
2	3282.533	47.24	-4.04	43.20	74.00	-30.80	Peak
3	4924.000	38.43	-0.08	38.35	54.00	-15.65	Average
4	4924.000	46.80	-0.08	46.72	74.00	-27.28	Peak
5	7386.000	28.63	6.39	35.02	54.00	-18.98	Average
6	7386.000	35.63	6.39	42.02	74.00	-31.98	Peak



Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 48%
Memo : AX20-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3282.533	46.12	-4.04	42.08	54.00	-11.92	Average
2	3282.533	48.69	-4.04	44.65	74.00	-29.35	Peak
3	4924.000	37.01	-0.08	36.93	54.00	-17.07	Average
4	4924.000	46.05	-0.08	45.97	74.00	-28.03	Peak
5	7386.000	27.32	6.39	33.71	54.00	-20.29	Average
6	7386.000	36.62	6.39	43.01	74.00	-30.99	Peak

Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

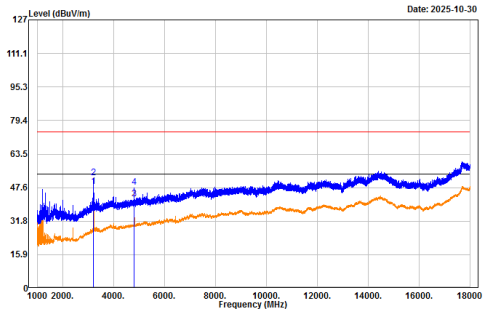
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BLE(1M) Mode

1GHz-18GHz:

Low channel

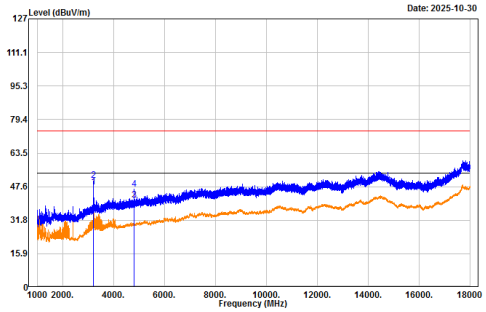
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 21℃/ 58%
Memo : BLE-1M-TX-2402
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3215.667	52.57	-4.36	48.21	54.00	-5.79	Average
2	3215.667	56.56	-4.36	52.20	74.00	-21.80	Peak
3	4804.000	42.86	-0.67	42.19	54.00	-11.81	Average
4	4804.000	48.66	-0.67	47.99	74.00	-26.01	Peak

Vertical

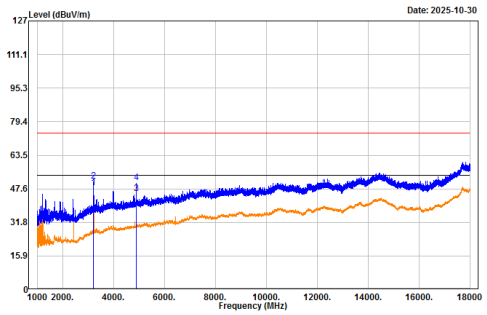


Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 21℃/ 58%
Memo : BLE-1M-TX-2402
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3215.667	51.88	-4.36	47.52	54.00	-6.48	Average
2	3215.667	54.82	-4.36	50.46	74.00	-23.54	Peak
3	4804.000	41.82	-0.67	41.15	54.00	-12.85	Average
4	4804.000	47.20	-0.67	46.53	74.00	-27.47	Peak

Middle channel

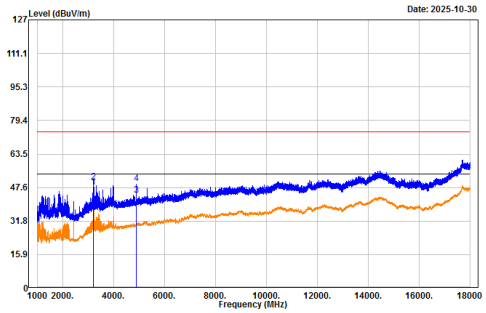
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 21℃/ 58%
Memo : BLE-1M-TX-2440
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3215.667	52.58	-4.36	48.22	54.00	-5.78	Average
2	3215.667	55.48	-4.36	51.12	74.00	-22.88	Peak
3	4880.000	45.69	-0.24	45.45	54.00	-8.55	Average
4	4880.000	50.93	-0.24	50.69	74.00	-23.31	Peak

Vertical

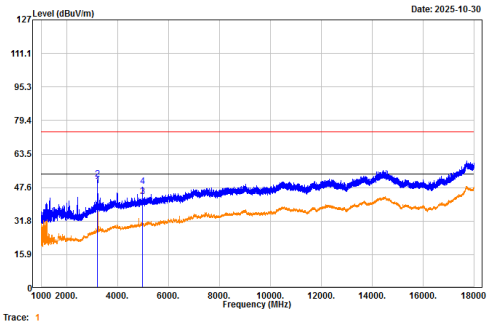


Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 21℃/ 58%
Memo : BLE-1M-TX-2440
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3215.667	52.20	-4.36	47.84	54.00	-6.16	Average
2	3215.667	54.49	-4.36	50.13	74.00	-23.87	Peak
3	4880.000	44.33	-0.24	44.09	54.00	-9.91	Average
4	4880.000	49.71	-0.24	49.47	74.00	-24.53	Peak

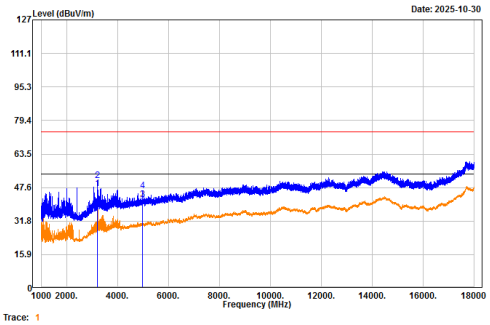
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High channel	
Horizontal	**Vertical**



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 21℃/ 58%
Memo : BLE-1M-TX-2480
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3215.667	52.74	-4.36	48.38	54.00	-5.62	Average
2	3215.667	55.91	-4.36	51.55	74.00	-22.45	Peak
3	4960.000	43.36	-0.02	43.34	54.00	-10.66	Average
4	4960.000	48.31	-0.02	48.29	74.00	-25.71	Peak



Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 21℃/ 58%
Memo : BLE-1M-TX-2480
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3215.667	51.56	-4.36	47.20	54.00	-6.80	Average
2	3215.667	55.30	-4.36	50.94	74.00	-23.06	Peak
3	4960.000	41.88	-0.02	41.86	54.00	-12.14	Average
4	4960.000	46.11	-0.02	46.09	74.00	-27.91	Peak

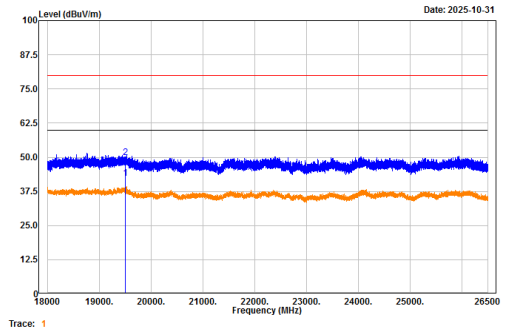
Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

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18GHz-26.5GHz:

WiFi 2.4G Middle channel

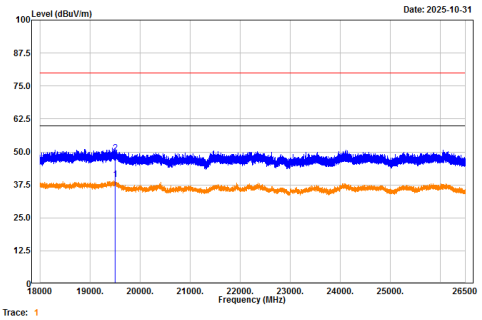
Horizontal



Trace: 1
Site : LK-966A
Condition: 1.5m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20℃/ 48%
Memo : 11B-TX-2437
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	19496.000	43.18	-0.93	42.25	60.00	-17.75	Average
2	19496.000	50.78	-0.93	49.85	80.00	-30.15	Peak

Vertical

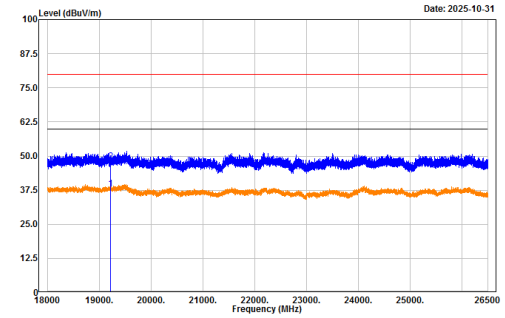


Trace: 1
Site : LK-966A
Condition: 1.5m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20℃/ 48%
Memo : 11B-TX-2437
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	19496.000	40.58	-0.93	39.65	60.00	-20.35	Average
2	19496.000	50.43	-0.93	49.50	80.00	-30.50	Peak

BLE(1M) Low channel

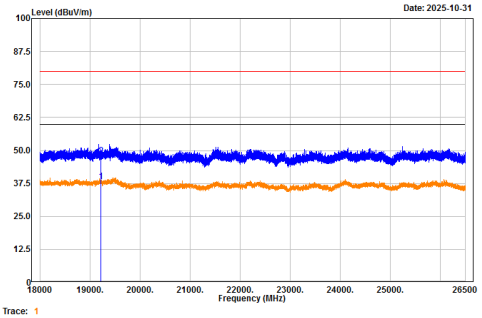
Horizontal



Trace: 1
Site : LK-966A
Condition: 1.5m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20℃/ 48%
Memo : BLE-1M-TX-2402
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	19216.000	39.43	-1.38	38.05	60.00	-21.95	Average
2	19216.000	49.25	-1.38	47.87	80.00	-32.13	Peak

Vertical



Trace: 1
Site : LK-966A
Condition: 1.5m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20℃/ 48%
Memo : BLE-1M-TX-2402
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	19216.000	39.59	-1.38	38.21	60.00	-21.79	Average
2	19216.000	49.29	-1.38	47.91	80.00	-32.09	Peak

Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
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 (1.5m/3m) = 6 dB,
Average Limit = 54+6 = 60 dBuV/m@1.5m , Peak Limit = 60+20 = 80 dBuV/m@1.5m

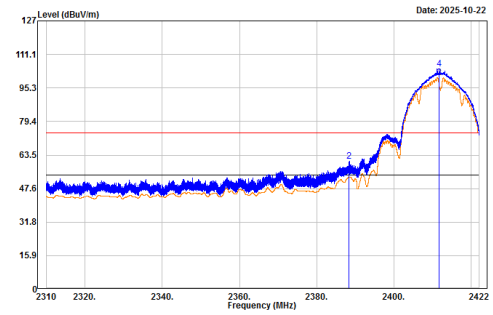
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

Band-Edge:

802.11b Mode

Low channel

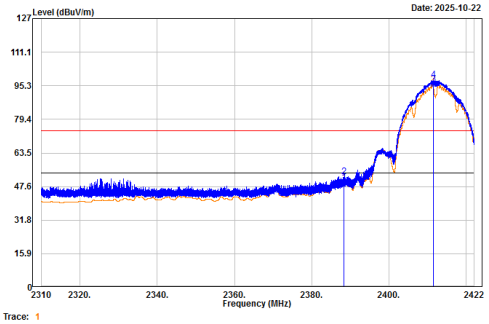
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11B-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2388.254	60.76	-7.65	53.11	54.00	-0.89	Average
2	2388.254	68.22	-7.65	60.57	74.00	-13.43	Peak
3	2411.625	107.80	-7.56	100.24	------	------	Average
4	2411.625	111.74	-7.56	104.18	------	------	Peak

Vertical

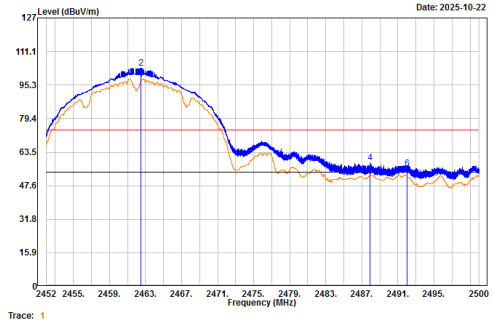


Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11B-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2388.247	57.08	-7.65	49.43	54.00	-4.57	Average
2	2388.247	60.04	-7.65	52.39	74.00	-21.61	Peak
3	2411.446	103.51	-7.56	95.95	------	------	Average
4	2411.446	105.48	-7.56	97.92	------	------	Peak

High channel

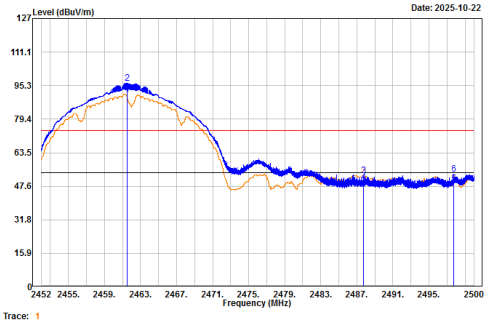
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11B-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2462.475	105.55	-7.43	98.12	------	------	Average
2	2462.475	110.60	-7.43	103.17	------	------	Peak
3	2487.889	59.54	-7.31	52.23	54.00	-1.77	Average
4	2487.889	65.76	-7.31	58.45	74.00	-15.55	Peak
5	2492.010	60.11	-7.30	52.81	54.00	-1.19	Average
6	2492.010	63.02	-7.30	55.72	74.00	-18.28	Peak

Vertical



Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11B-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2461.521	98.78	-7.43	91.35	------	------	Average
2	2461.521	103.75	-7.43	96.32	------	------	Peak
3	2487.749	60.10	-7.31	52.79	54.00	-1.21	Average
4	2487.749	56.87	-7.31	49.56	74.00	-24.44	Peak
5	2497.724	56.30	-7.27	49.03	54.00	-4.97	Average
6	2497.724	60.47	-7.27	53.20	74.00	-20.80	Peak

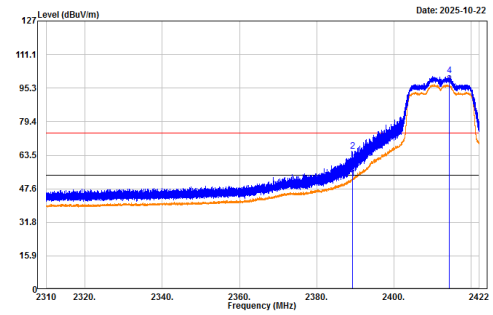
Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

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802.11g Mode

Low channel

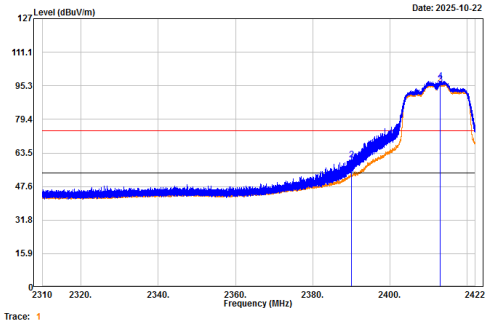
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11G-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2389.262	59.94	-7.63	52.31	54.00	-1.69	Average
2	2389.262	73.17	-7.63	65.54	74.00	-8.46	Peak
3	2414.306	104.51	-7.54	96.97	------	------	Average
4	2414.306	108.65	-7.54	101.11	------	------	Peak

Vertical

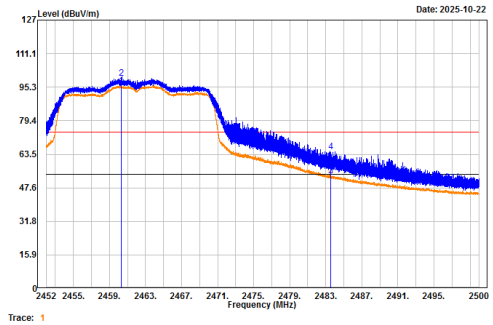


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11G-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2389.953	61.56	-7.63	53.93	54.00	-0.07	Average
2	2389.953	67.74	-7.63	60.11	74.00	-13.89	Peak
3	2413.021	103.56	-7.54	96.02	------	------	Average
4	2413.021	105.03	-7.54	97.49	------	------	Peak

High channel

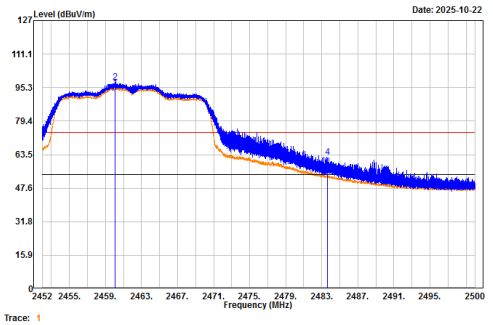
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11G-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2460.339	103.47	-7.44	96.03	------	------	Average
2	2460.339	106.85	-7.44	99.41	------	------	Peak
3	2483.570	60.83	-7.34	53.49	54.00	-0.51	Average
4	2483.570	72.12	-7.34	64.78	74.00	-9.22	Peak

Vertical



Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : 11G-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2460.078	102.56	-7.44	95.12	------	------	Average
2	2460.078	105.31	-7.44	97.87	------	------	Peak
3	2483.602	61.04	-7.34	53.70	54.00	-0.30	Average
4	2483.602	69.53	-7.34	62.19	74.00	-11.81	Peak

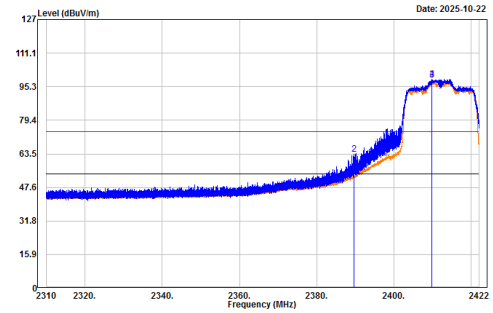
Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

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802.11n HT20 Mode

Low channel

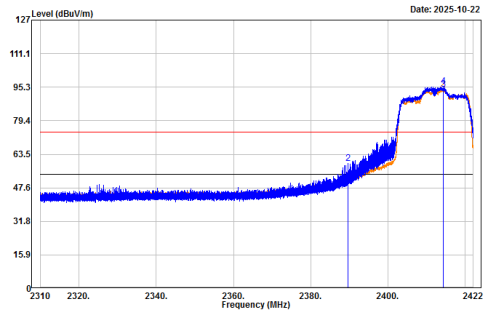
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : N20-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2389.699	60.68	-7.63	53.05	54.00	-0.95	Average
2	2389.699	71.11	-7.63	63.48	74.00	-10.52	Peak
3	2409.669	106.15	-7.56	98.59	------	------	Average
4	2409.669	106.25	-7.56	98.69	------	------	Peak

Vertical

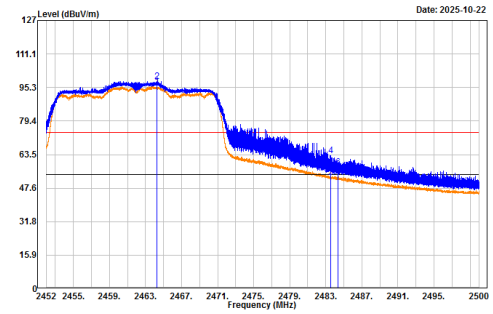


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : N20-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2389.531	58.99	-7.63	51.36	54.00	-2.64	Average
2	2389.531	66.72	-7.63	59.09	74.00	-14.91	Peak
3	2414.212	101.77	-7.54	94.23	------	------	Average
4	2414.212	103.08	-7.54	95.54	------	------	Peak

High channel

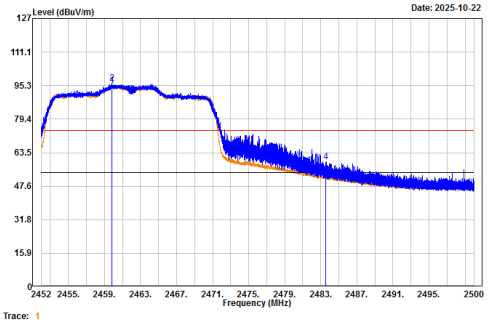
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : N20-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2464.288	103.11	-7.41	95.70	------	------	Average
2	2464.288	105.61	-7.41	98.20	------	------	Peak
3	2483.544	60.03	-7.34	52.69	54.00	-1.31	Average
4	2483.544	70.29	-7.34	62.95	74.00	-11.05	Peak
5	2484.371	60.51	-7.34	53.17	54.00	-0.83	Average
6	2484.371	64.84	-7.34	57.50	74.00	-16.50	Peak

Vertical



Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : N20-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2459.802	102.84	-7.44	95.40	------	------	Average
2	2459.802	103.87	-7.44	96.43	------	------	Peak
3	2483.552	59.60	-7.34	52.26	54.00	-1.74	Average
4	2483.552	66.61	-7.34	59.27	74.00	-14.73	Peak

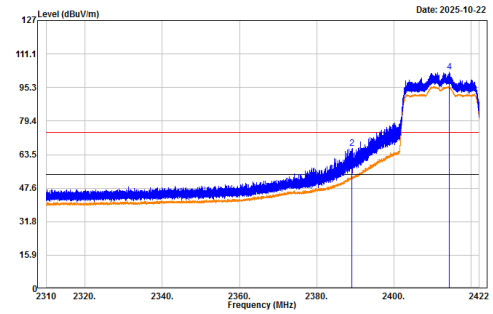
Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

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802.11ax HE20 Mode

Low channel

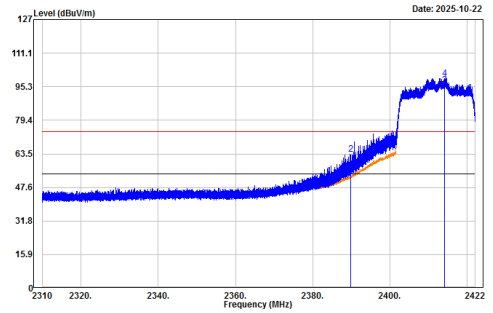
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : AX20-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2389.053	60.83	-7.63	53.20	54.00	-0.80	Average
2	2389.053	74.01	-7.63	66.38	74.00	-7.62	Peak
3	2414.298	103.22	-7.54	95.68	------	------	Average
4	2414.298	109.94	-7.54	102.40	------	------	Peak

Vertical

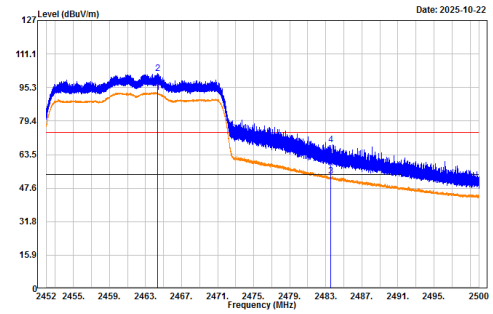


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : AX20-TX-2412
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2389.737	60.44	-7.63	52.81	54.00	-1.19	Average
2	2389.737	70.91	-7.63	63.28	74.00	-10.72	Peak
3	2414.130	103.40	-7.54	95.86	------	------	Average
4	2414.130	106.78	-7.54	99.24	------	------	Peak

High channel

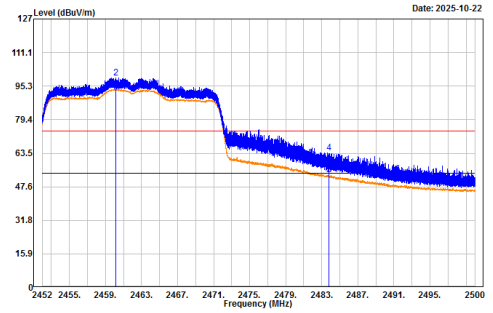
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : AX20-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2464.342	100.36	-7.41	92.95	------	------	Average
2	2464.342	109.15	-7.41	101.74	------	------	Peak
3	2483.546	60.77	-7.34	53.43	54.00	-0.57	Average
4	2483.546	75.41	-7.34	68.07	74.00	-5.93	Peak

Vertical



Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 22℃/ 51%
Memo : AX20-TX-2462
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2460.117	101.42	-7.44	93.98	------	------	Average
2	2460.117	106.53	-7.44	99.09	------	------	Peak
3	2483.797	60.72	-7.34	53.38	54.00	-0.62	Average
4	2483.797	71.05	-7.34	63.71	74.00	-10.29	Peak

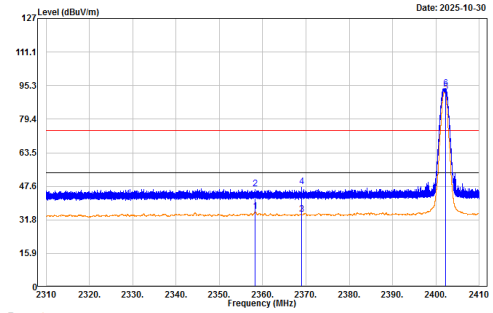
Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

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BLE(1M) Mode

Low channel

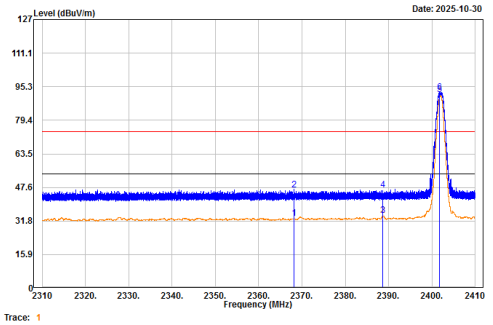
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 21℃/ 58%
Memo : BLE-1M-TX-2402
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2358.310	43.63	-7.84	35.79	54.00	-18.21	Average
2	2358.310	54.41	-7.84	46.57	74.00	-27.43	Peak
3	2369.063	42.24	-7.76	34.48	54.00	-19.52	Average
4	2369.063	55.16	-7.76	47.40	74.00	-26.60	Peak
5	2402.283	99.73	-7.57	92.16	------	------	Average
6	2402.283	101.36	-7.57	93.79	------	------	Peak

Vertical

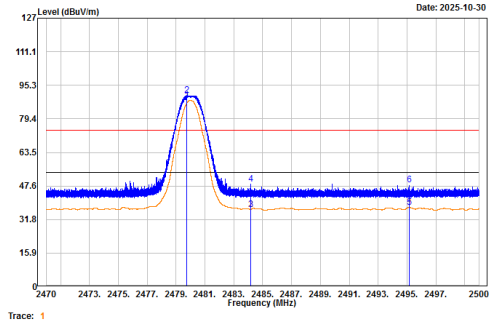


Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 21℃/ 58%
Memo : BLE-1M-TX-2402
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2368.100	40.65	-7.77	32.88	54.00	-21.12	Average
2	2368.100	54.34	-7.77	46.57	74.00	-27.43	Peak
3	2388.723	42.16	-7.64	34.52	54.00	-19.48	Average
4	2388.723	54.15	-7.64	46.51	74.00	-27.49	Peak
5	2401.760	98.96	-7.57	91.39	------	------	Average
6	2401.760	100.13	-7.57	92.56	------	------	Peak

High channel

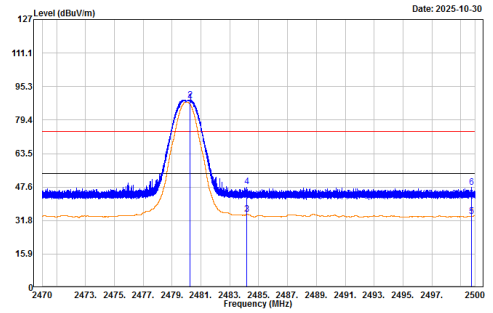
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 21℃/ 58%
Memo : BLE-1M-TX-2480
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2479.730	95.37	-7.35	88.02	------	------	Average
2	2479.730	97.71	-7.35	90.36	------	------	Peak
3	2484.171	43.78	-7.34	36.44	54.00	-17.56	Average
4	2484.171	55.83	-7.34	48.49	74.00	-25.51	Peak
5	2495.153	44.95	-7.29	37.66	54.00	-16.34	Average
6	2495.153	55.59	-7.29	48.30	74.00	-25.70	Peak

Vertical



Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 21℃/ 58%
Memo : BLE-1M-TX-2480
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2480.255	95.28	-7.35	87.93	------	------	Average
2	2480.255	96.17	-7.35	88.82	------	------	Peak
3	2484.188	42.07	-7.34	34.73	54.00	-19.27	Average
4	2484.188	55.05	-7.34	47.71	74.00	-26.29	Peak
5	2499.743	40.99	-7.27	33.72	54.00	-20.28	Average
6	2499.743	54.64	-7.27	47.37	74.00	-26.63	Peak

Note:
Level = Read Level + Factor
Over Limit = Level – Limit Line
Factor = Antenna Factor + Cable Loss – Amplifier Gain

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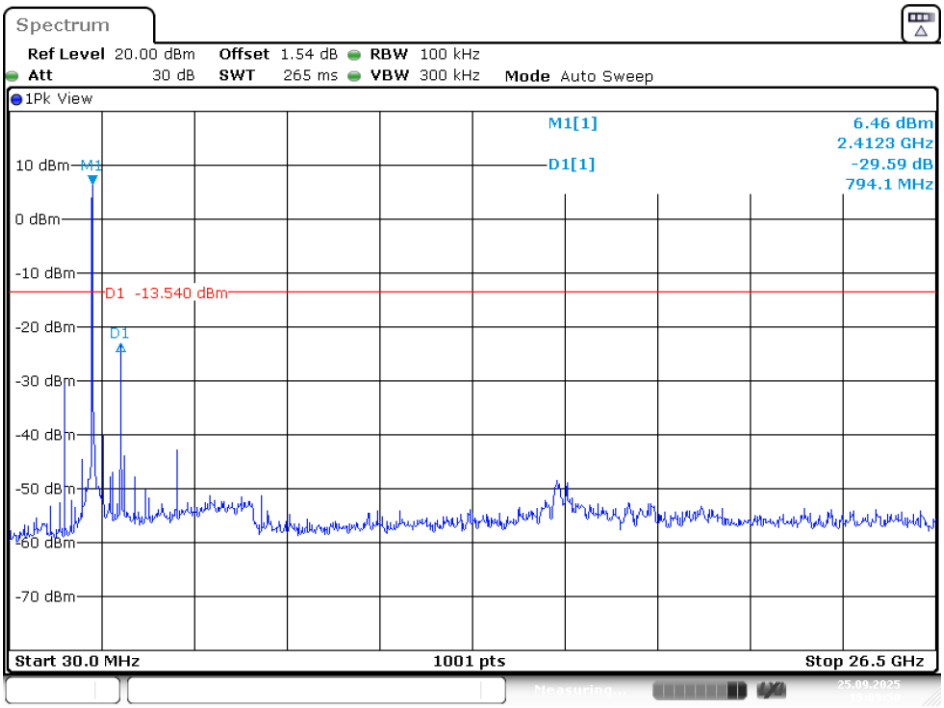
Conducted Spurious Emissions:

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
b Mode				
Low	2412	29.59	≥ 20	PASS
Mid	2437	31.77	≥ 20	PASS
High	2462	29.98	≥ 20	PASS
g Mode				
Low	2412	29.99	≥ 20	PASS
Mid	2437	28.44	≥ 20	PASS
High	2462	31.75	≥ 20	PASS
n20 Mode				
Low	2412	36.18	≥ 20	PASS
Mid	2437	29.51	≥ 20	PASS
High	2462	33.21	≥ 20	PASS
ax20 Mode				
Low	2412	29.28	≥ 20	PASS
Mid	2437	32.16	≥ 20	PASS
High	2462	31.20	≥ 20	PASS
BLE(1M) Mode				
Low	2402	47.13	≥ 20	PASS
Mid	2440	48.35	≥ 20	PASS
High	2480	48.31	≥ 20	PASS

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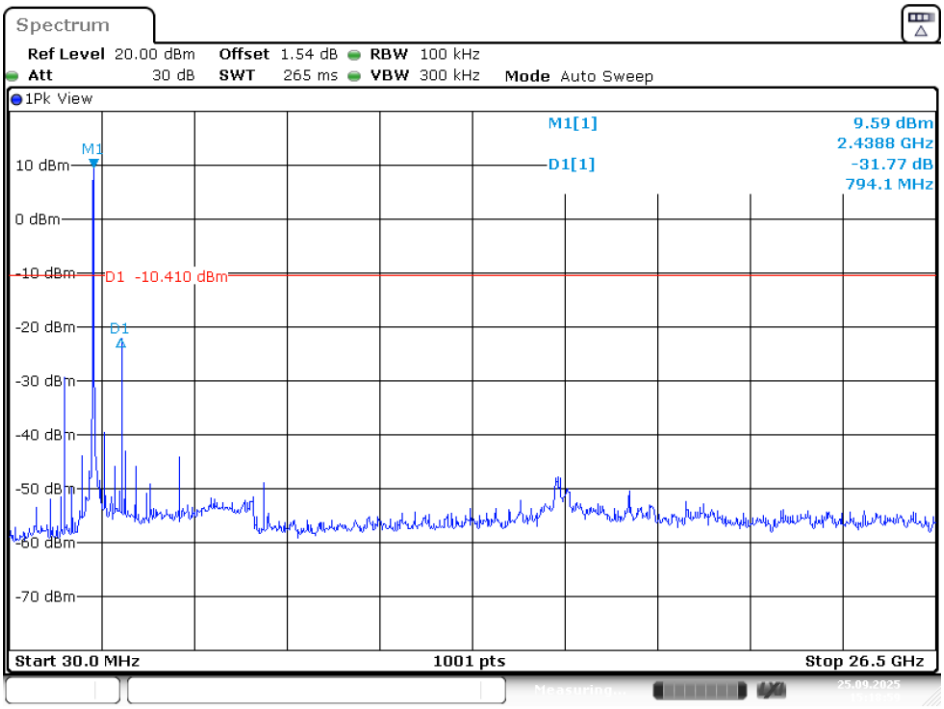
b Mode

Low Channel



Date: 25.SEP.2025 15:09:50

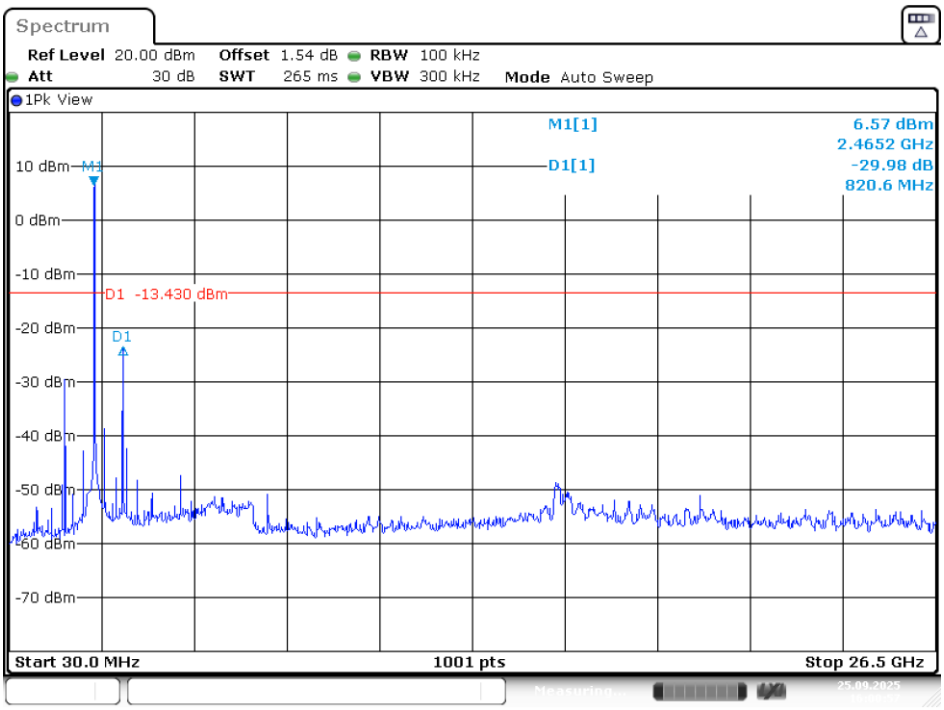
Middle Channel



Date: 25.SEP.2025 15:18:59

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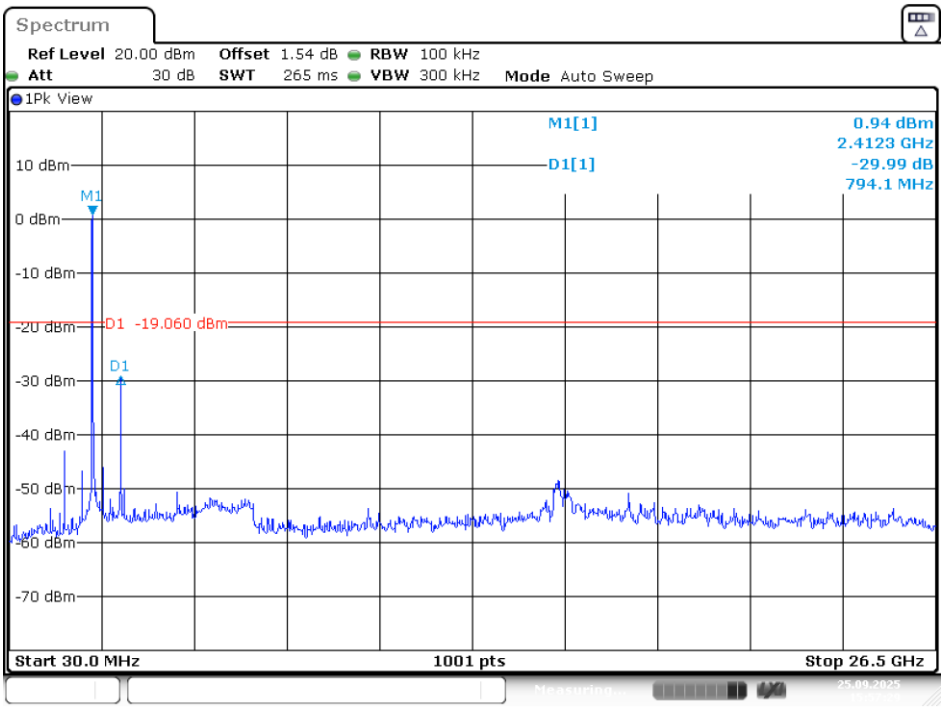
High Channel



Date: 25.SEP.2025 16:00:57

g Mode

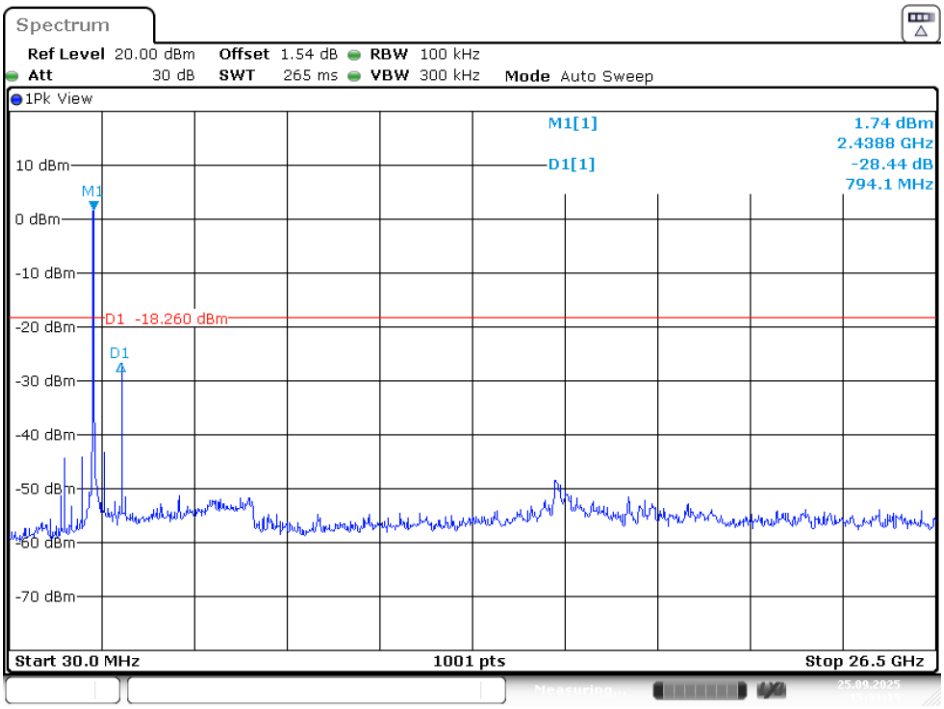
Low Channel



Date: 25.SEP.2025 15:57:29

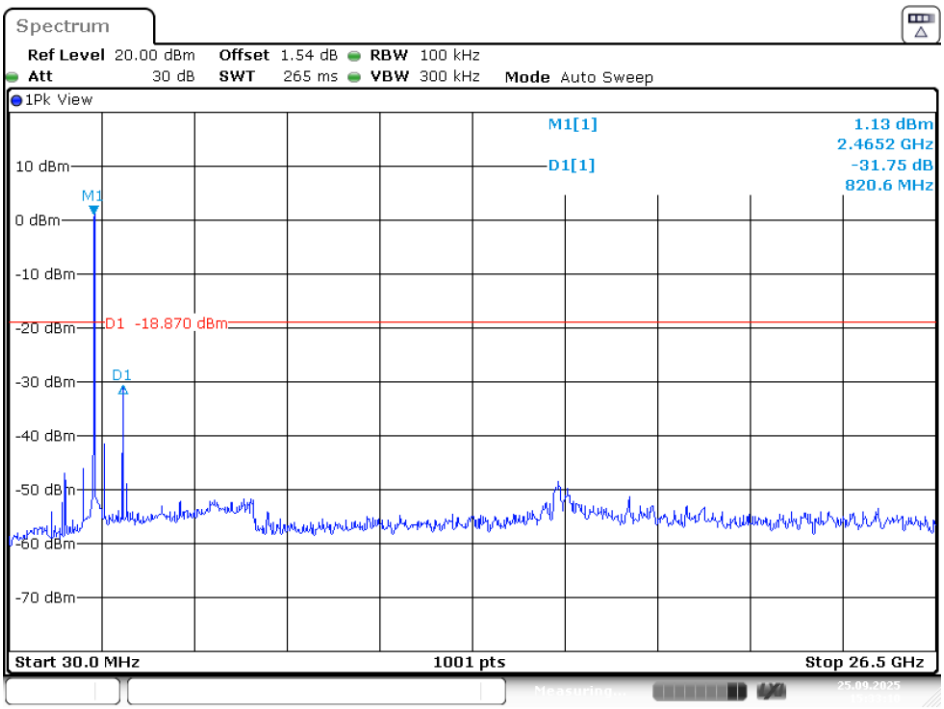
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

Middle Channel



Date: 25.SEP.2025 15:31:15

High Channel

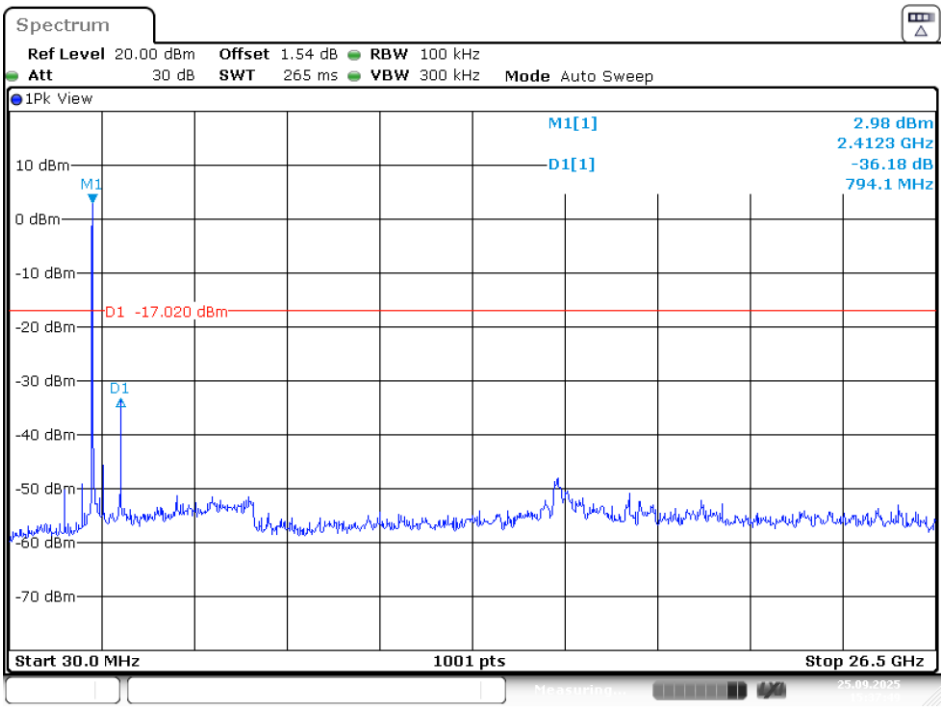


Date: 25.SEP.2025 15:33:10

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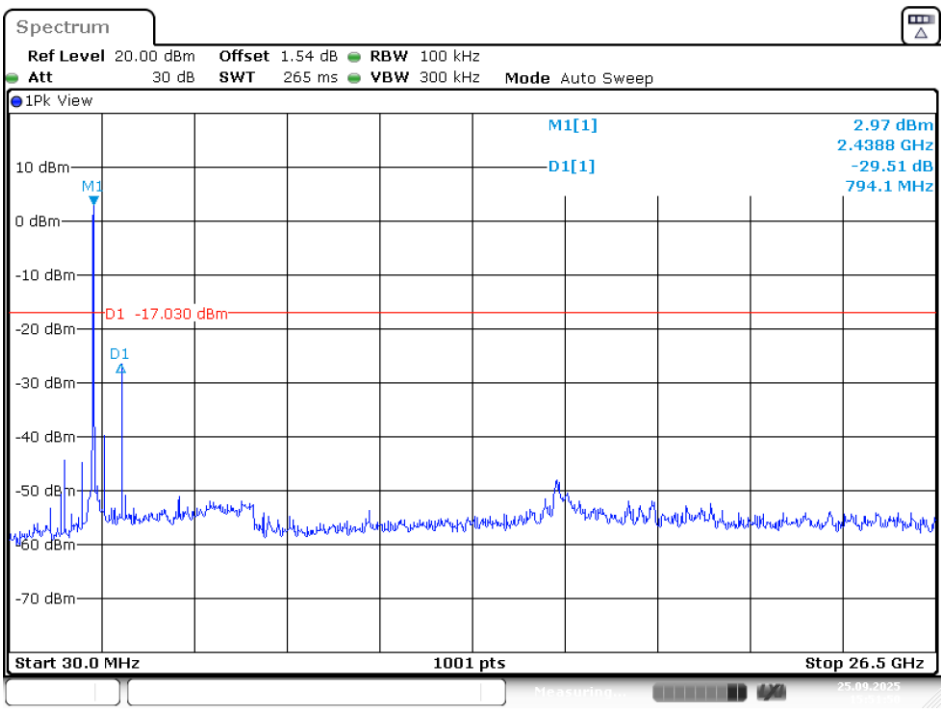
n20 Mode

Low Channel



Date: 25.SEP.2025 15:37:49

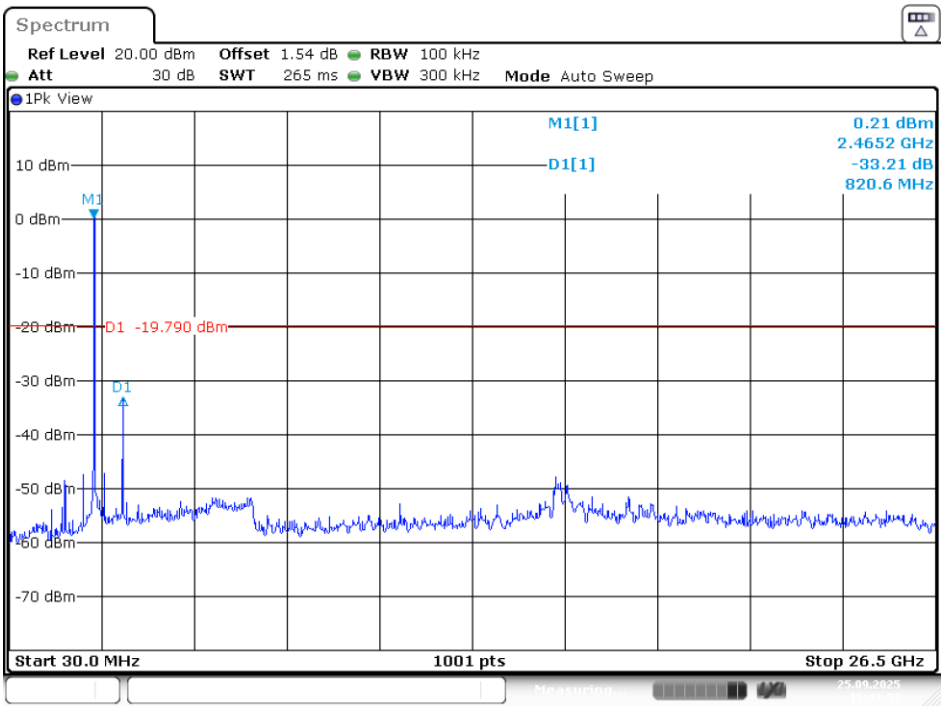
Middle Channel



Date: 25.SEP.2025 15:51:51

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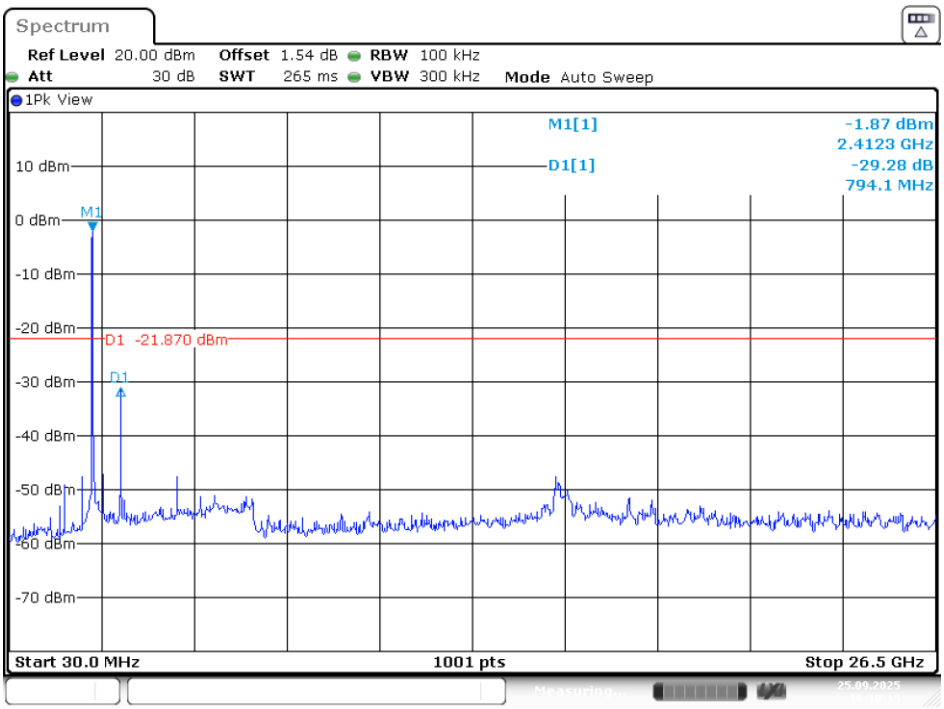
High Channel



Date: 25.SEP.2025 15:41:53

ax20 Mode

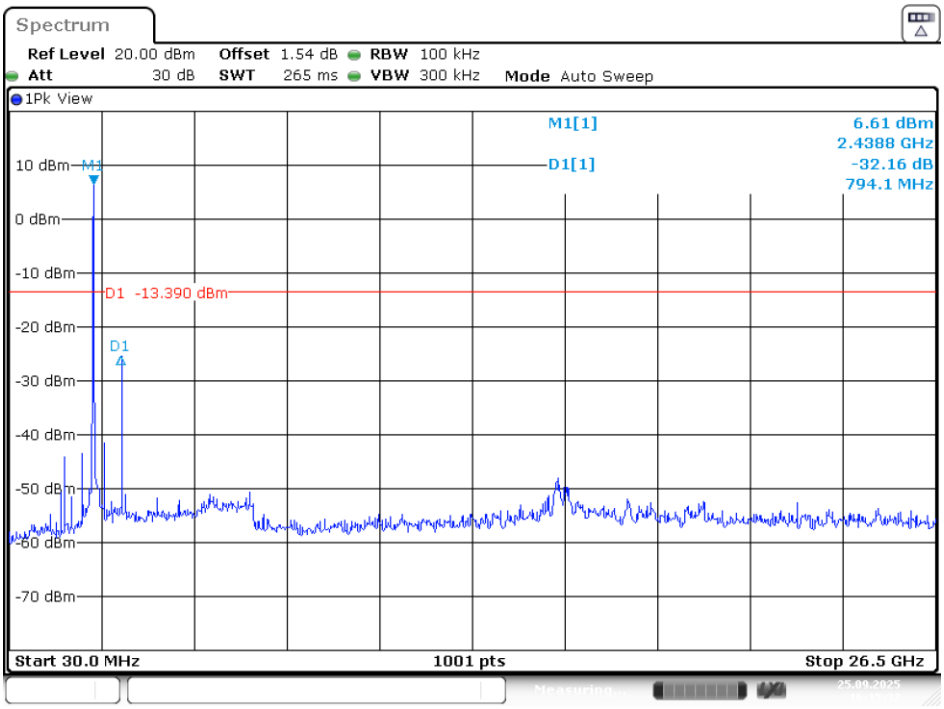
Low Channel



Date: 25.SEP.2025 16:10:15

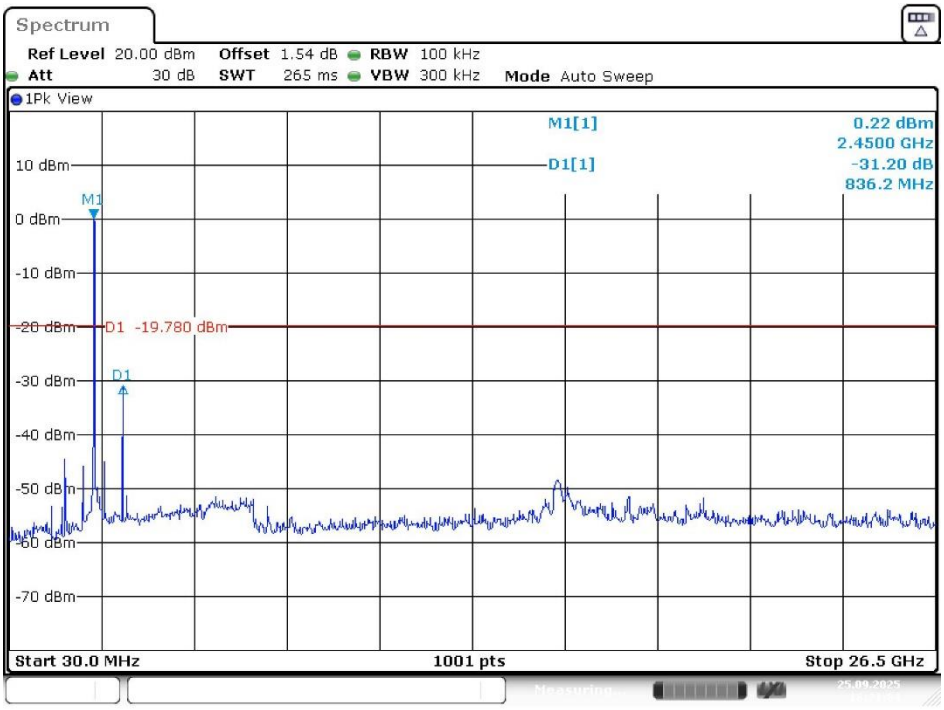
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

Middle Channel



Date: 25.SEP.2025 16:15:32

High Channel

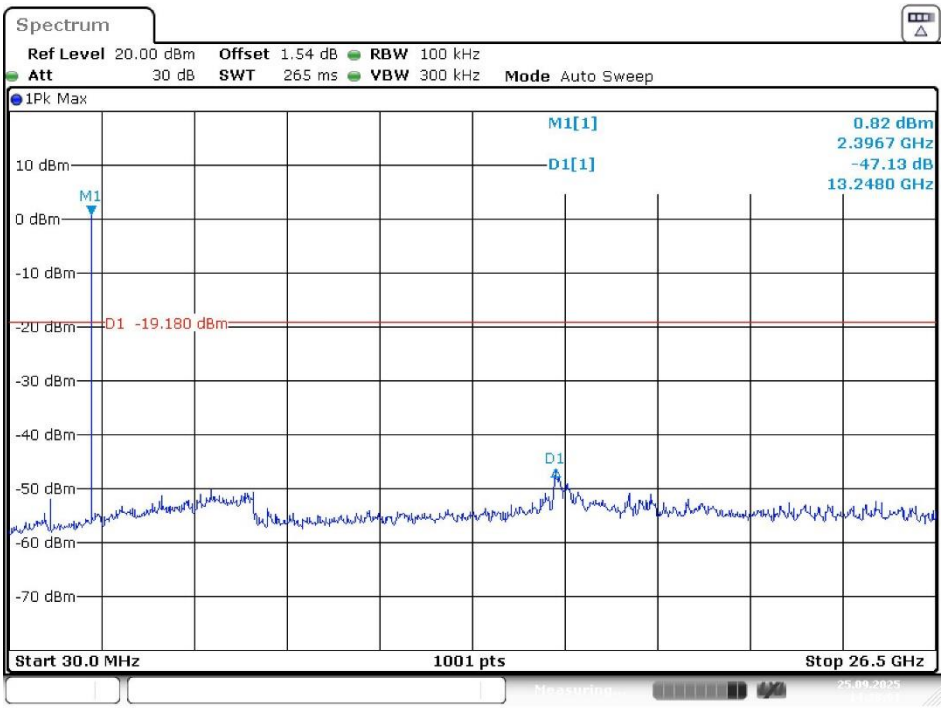


Date: 25.SEP.2025 16:21:04

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

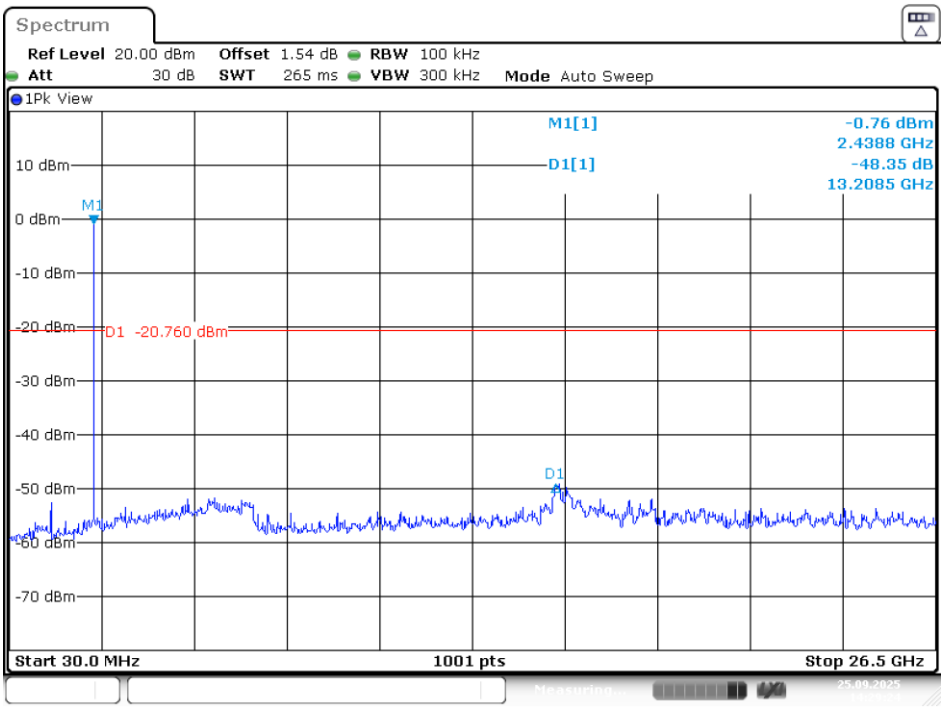
BLE (1M) Mode

Low Channel



Date: 25.SEP.2025 14:28:01

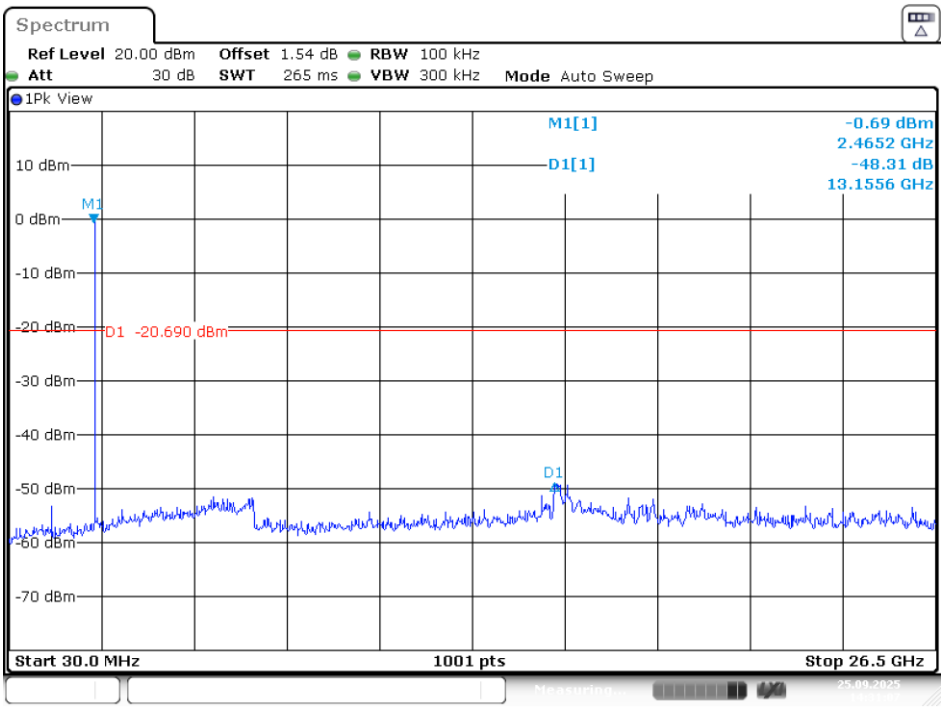
Middle Channel



Date: 25.SEP.2025 14:29:24

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High Channel



Date: 25.SEP.2025 14:31:07

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

8 RSS-247 §6.3.1 (b), RSS-GEN §6.7 – 6 dB Emission Bandwidth & Occupied Bandwidth

8.1 Applicable Standard

According to RSS-GEN §6.7

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

According to RSS-247 §6.3.1 (a)

The minimum 6 dB bandwidth shall be 500 kHz.

8.2 Test Procedure

According to ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, section 11.8

The steps for the first option are as follows:

a) Set RBW = 100 kHz.

b) Set the VBW ≥ [3 × 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.

According to ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 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).

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8.3 Test Results

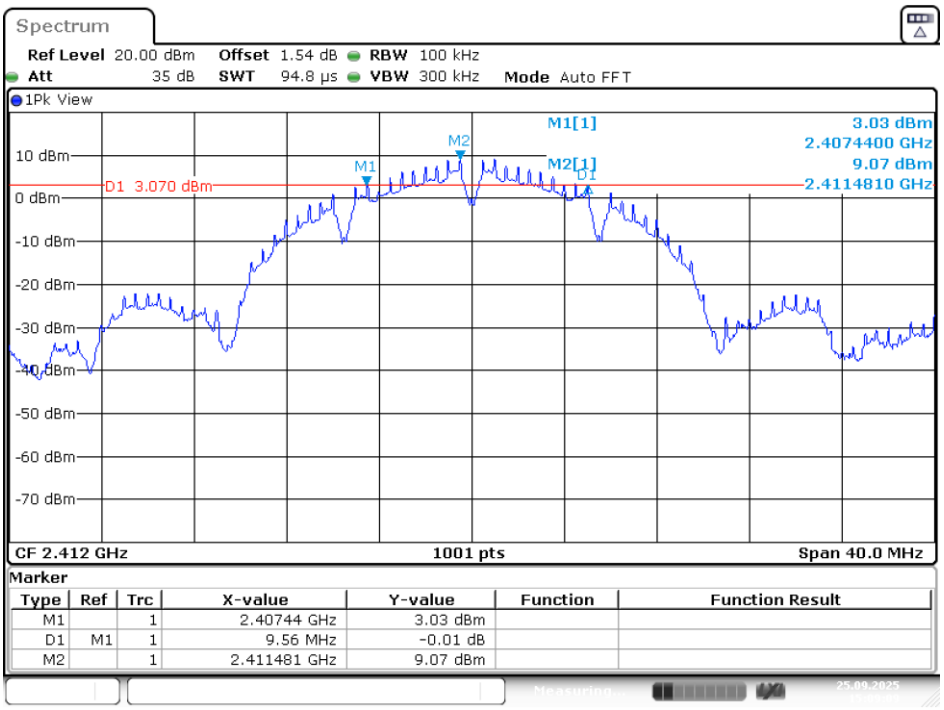
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (kHz)	Result
b Mode					
Low	2412	9.56	15.94	> 500	PASS
Middle	2437	5.04	16.18	> 500	PASS
High	2462	9.00	15.10	> 500	PASS
g Mode					
Low	2412	15.80	16.78	> 500	PASS
Middle	2437	16.08	17.02	> 500	PASS
High	2462	16.20	16.58	> 500	PASS
n20 Mode					
Low	2412	17.08	17.62	> 500	PASS
Middle	2437	17.12	18.10	> 500	PASS
High	2462	17.16	17.66	> 500	PASS
ax20 Mode					
Low	2412	17.88	18.82	> 500	PASS
Middle	2437	17.24	19.22	> 500	PASS
High	2462	18.00	18.90	> 500	PASS
BLE(1M) Mode					
Low	2402	0.84	1.10	> 500	PASS
Middle	2440	0.78	1.08	> 500	PASS
High	2480	0.76	1.07	> 500	PASS

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6 dB Emission Bandwidth

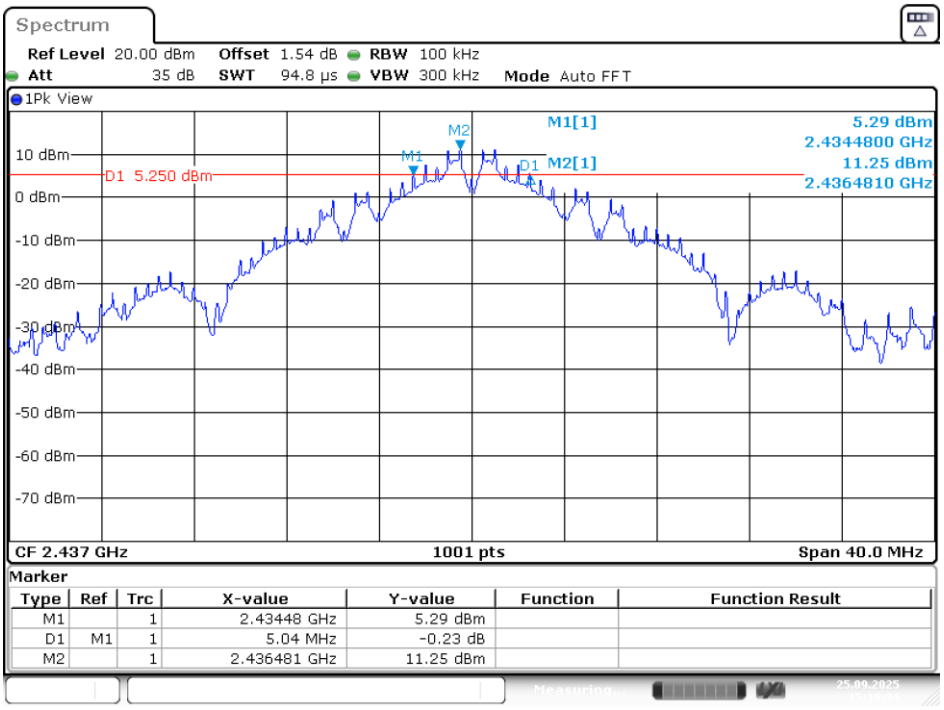
b Mode

Low Channel



Date: 25.SEP.2025 15:09:09

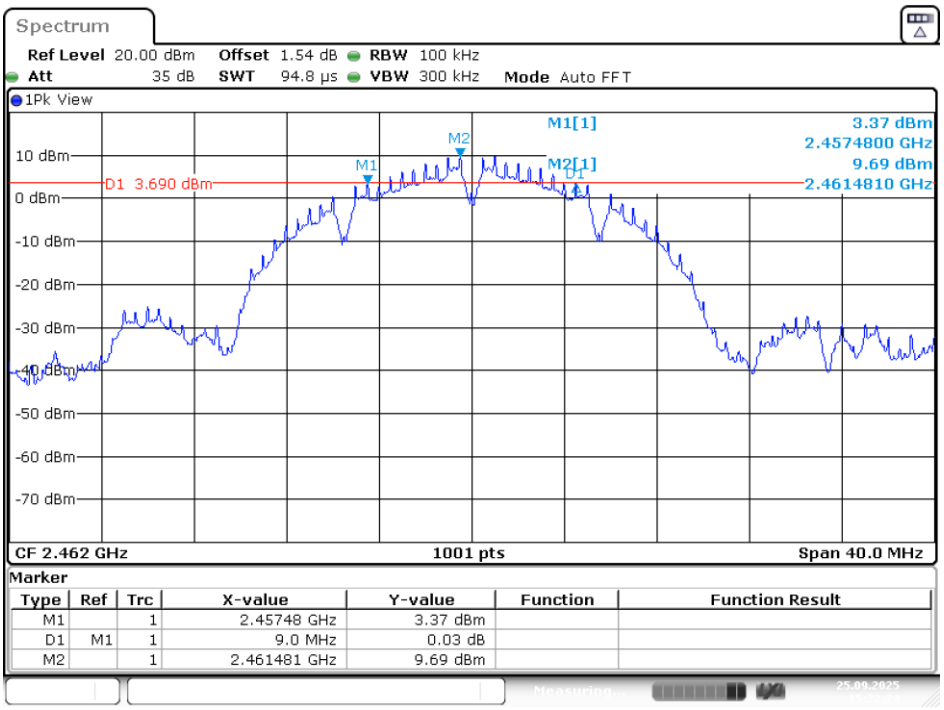
Middle Channel



Date: 25.SEP.2025 15:18:34

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

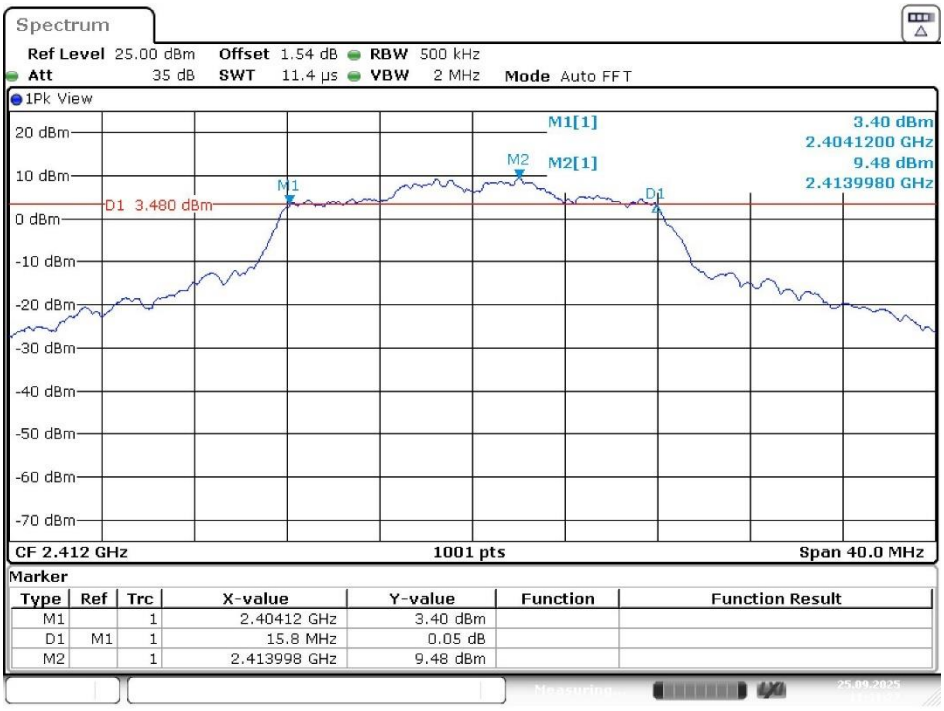
High Channel



Date: 25.SEP.2025 15:22:24

g Mode

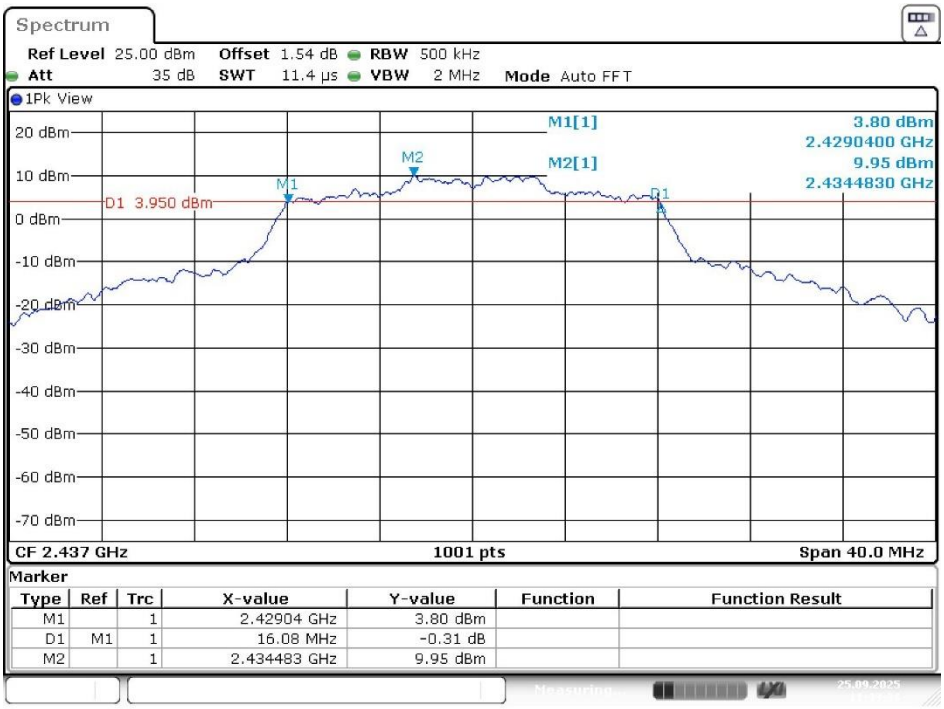
Low Channel



Date: 25.SEP.2025 11:31:27

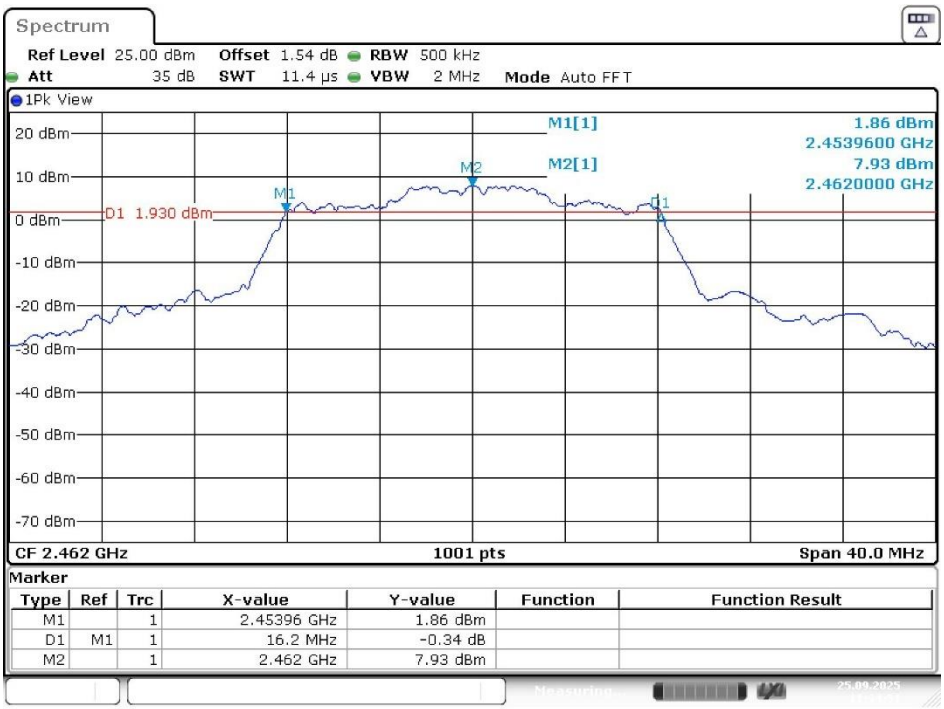
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

Middle Channel



Date: 25.SEP.2025 11:33:38

High Channel

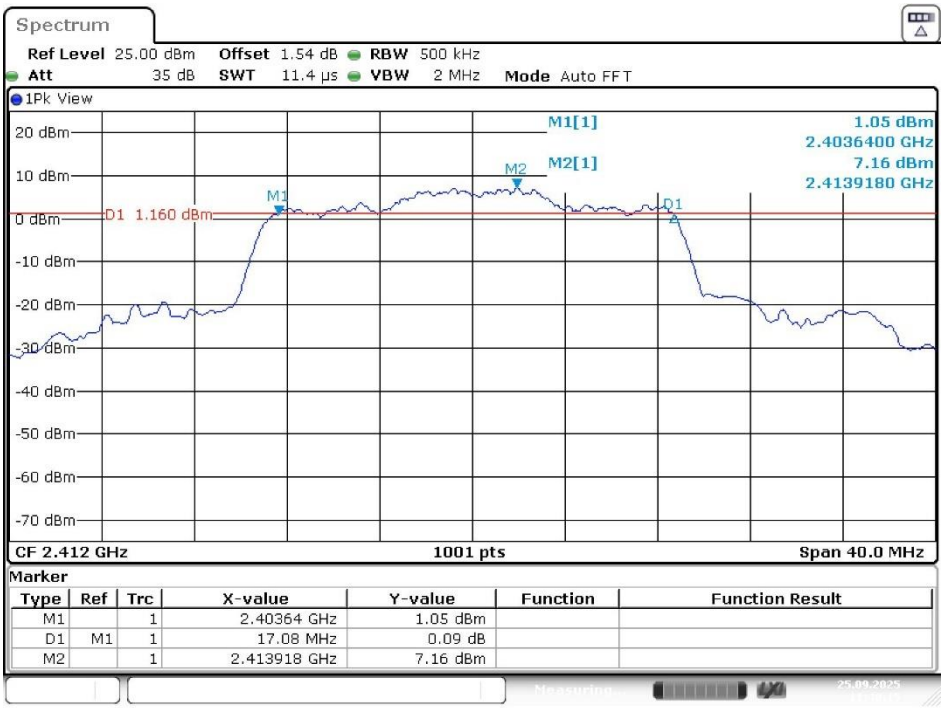


Date: 25.SEP.2025 11:34:51

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

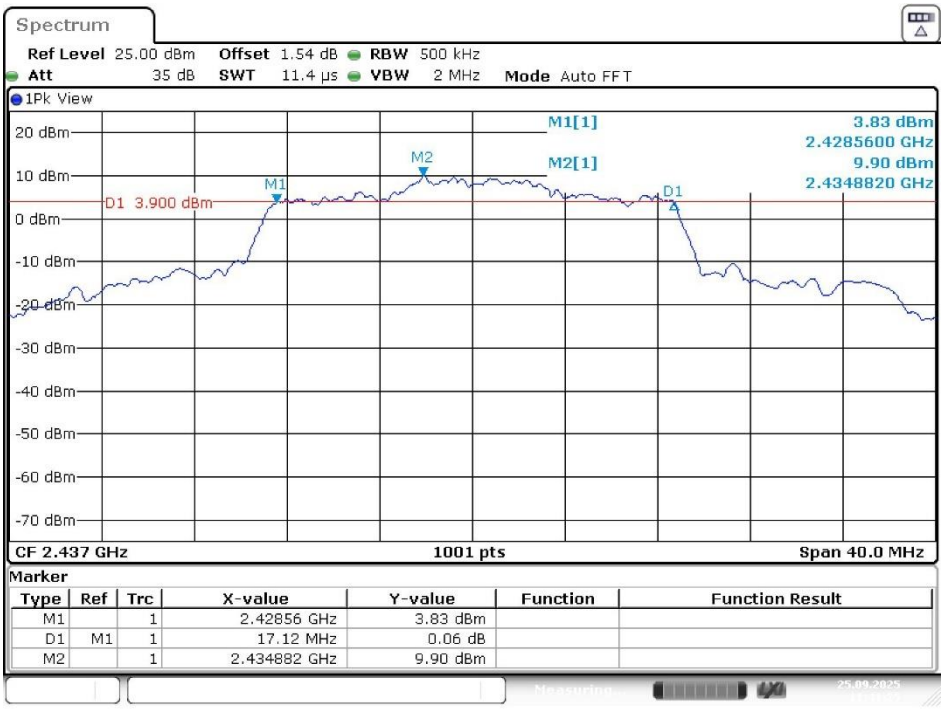
n20 Mode

Low Channel



Date: 25.SEP.2025 11:40:15

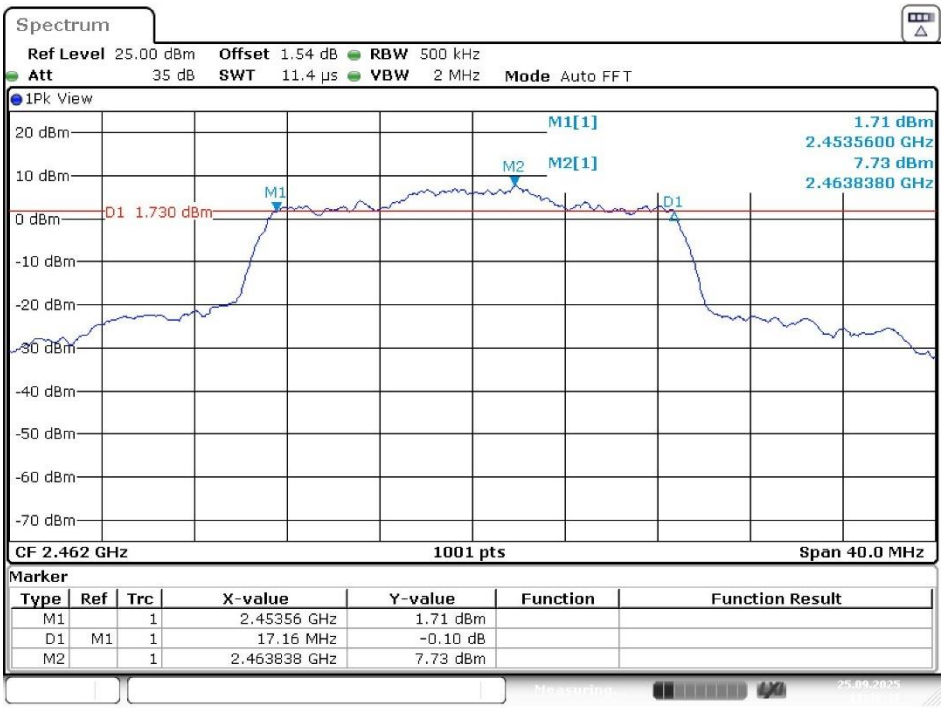
Middle Channel



Date: 25.SEP.2025 11:41:25

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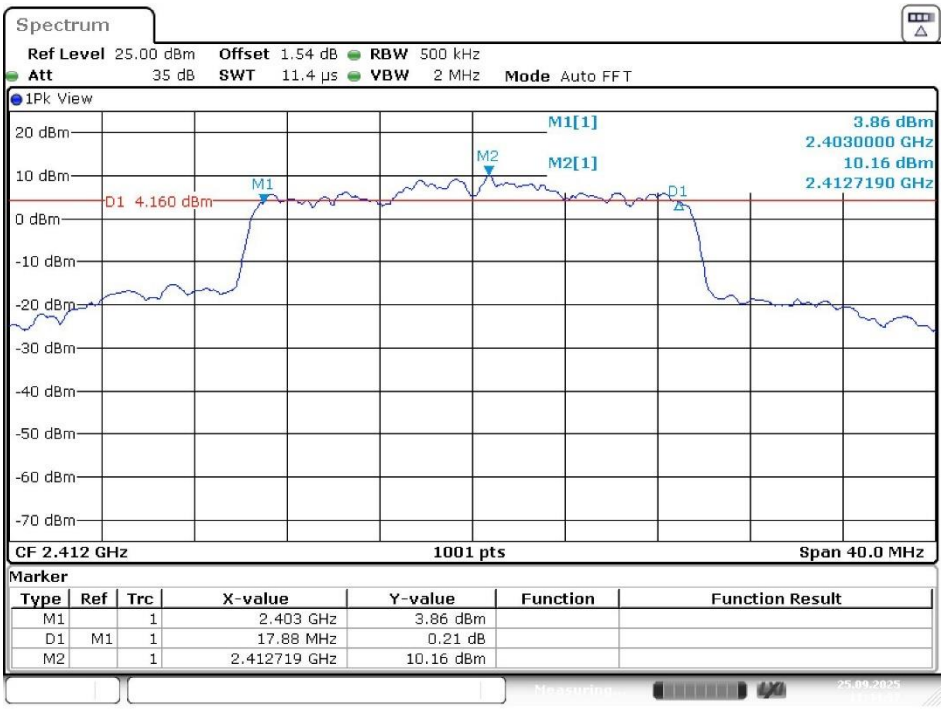
High Channel



Date: 25.SEP.2025 11:42:40

ax20 Mode

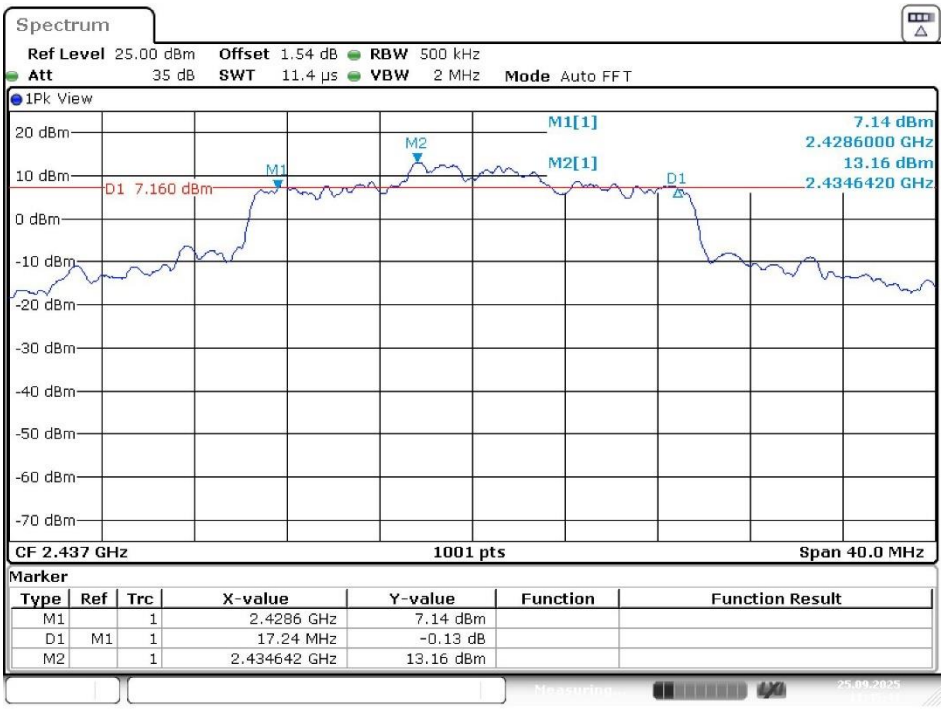
Low Channel



Date: 25.SEP.2025 11:44:37

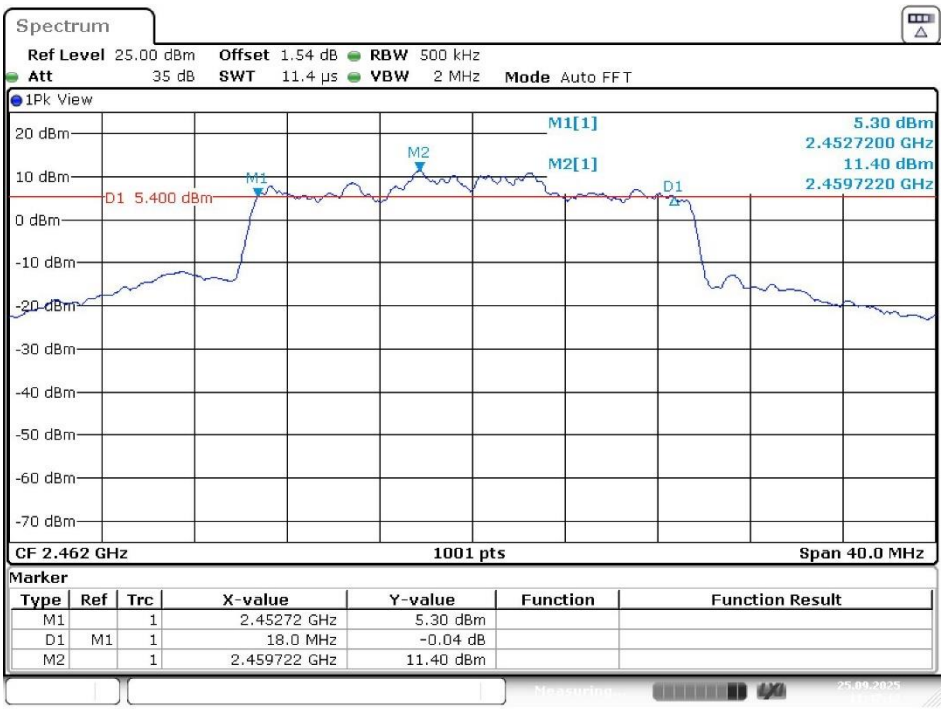
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

Middle Channel



Date: 25.SEP.2025 11:45:41

High Channel

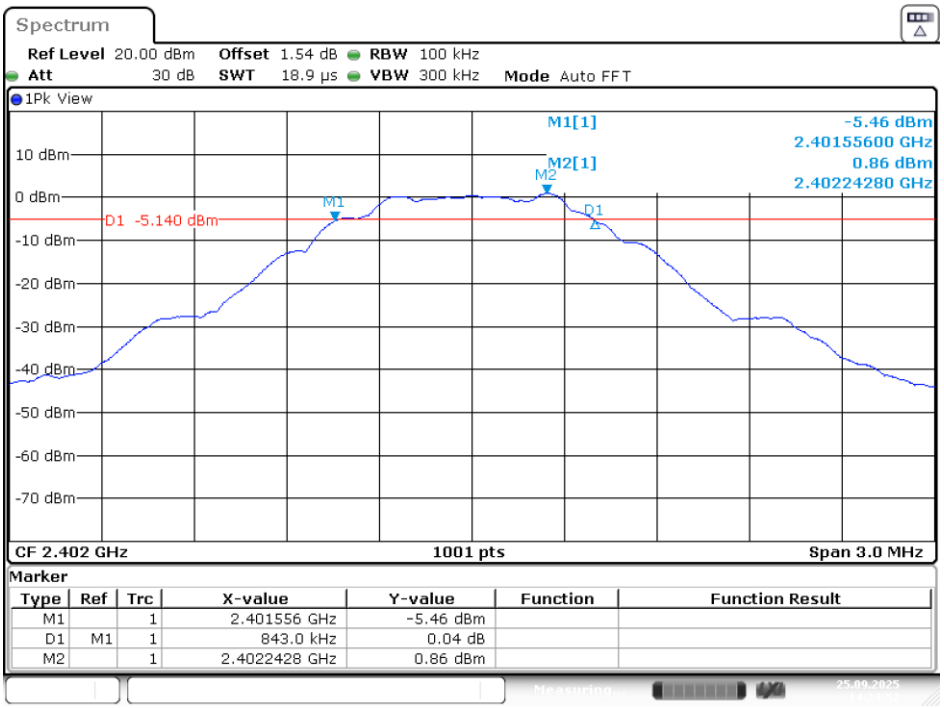


Date: 25.SEP.2025 11:47:12

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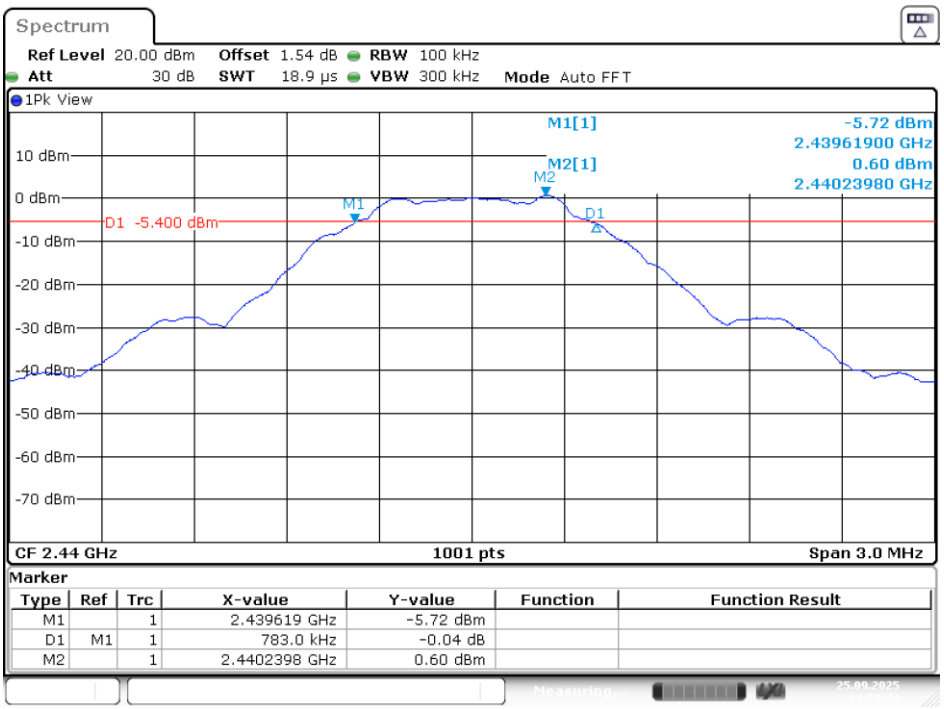
BLE (1M) Mode

Low Channel



Date: 25.SEP.2025 14:24:52

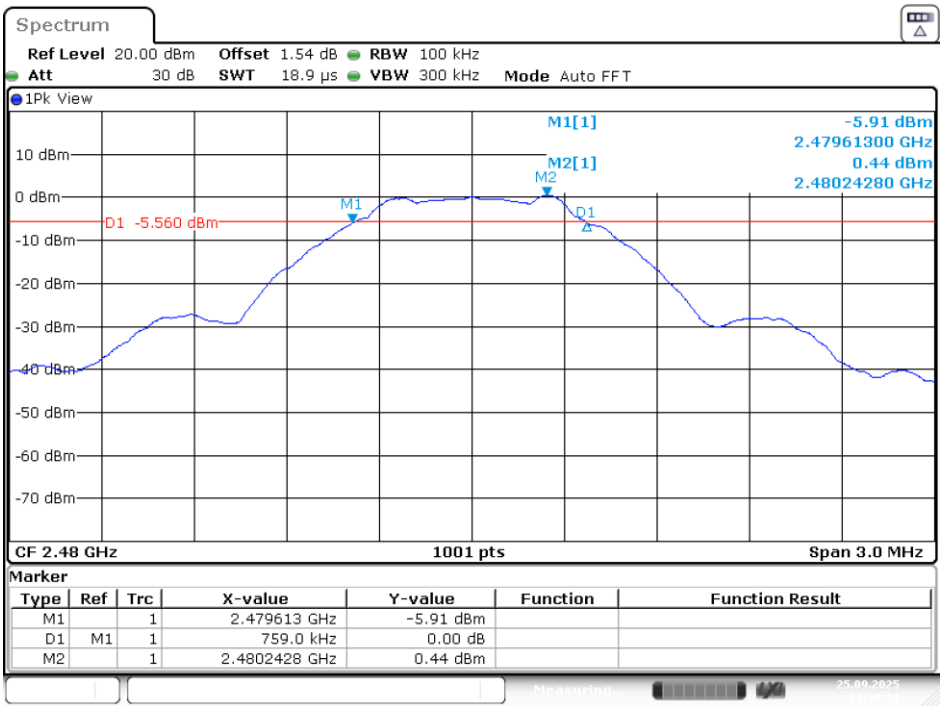
Middle Channel



Date: 25.SEP.2025 14:28:44

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High Channel

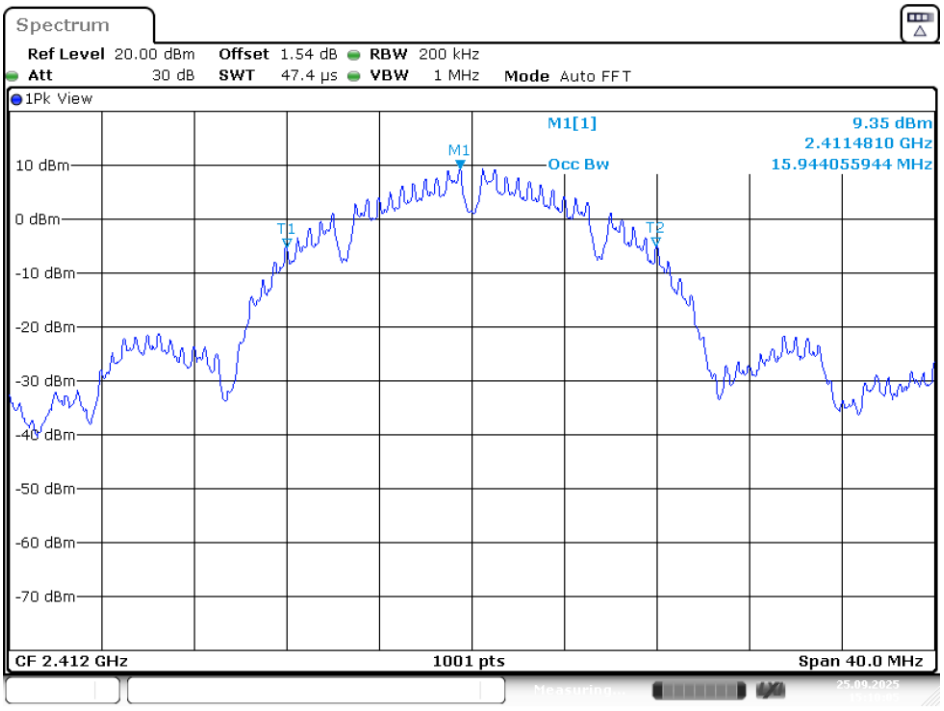


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99% Bandwidth

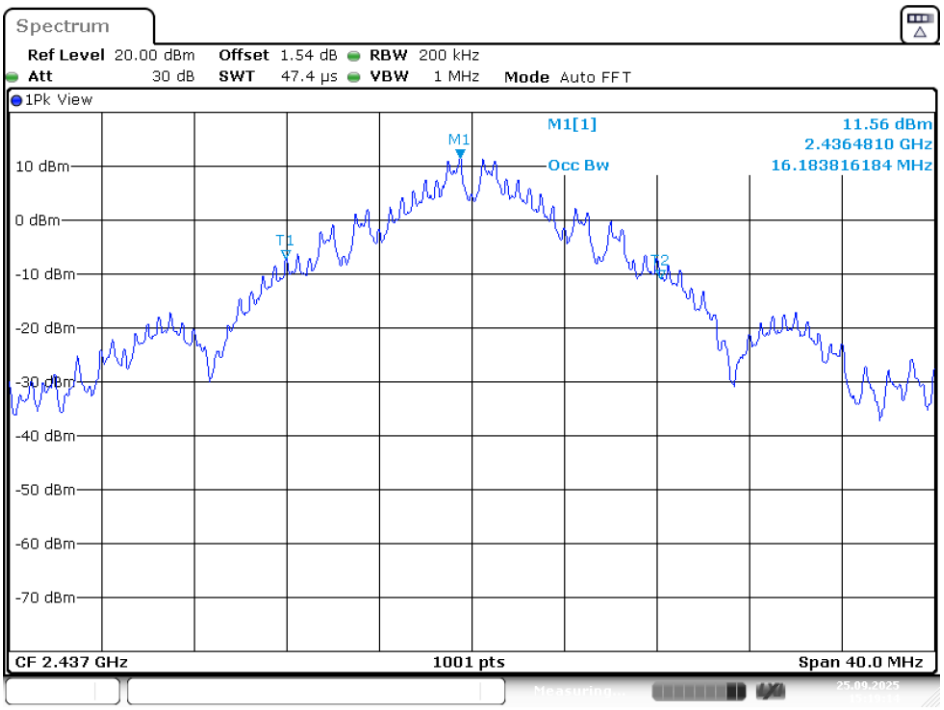
b Mode

Low Channel



Date: 25.SEP.2025 15:10:05

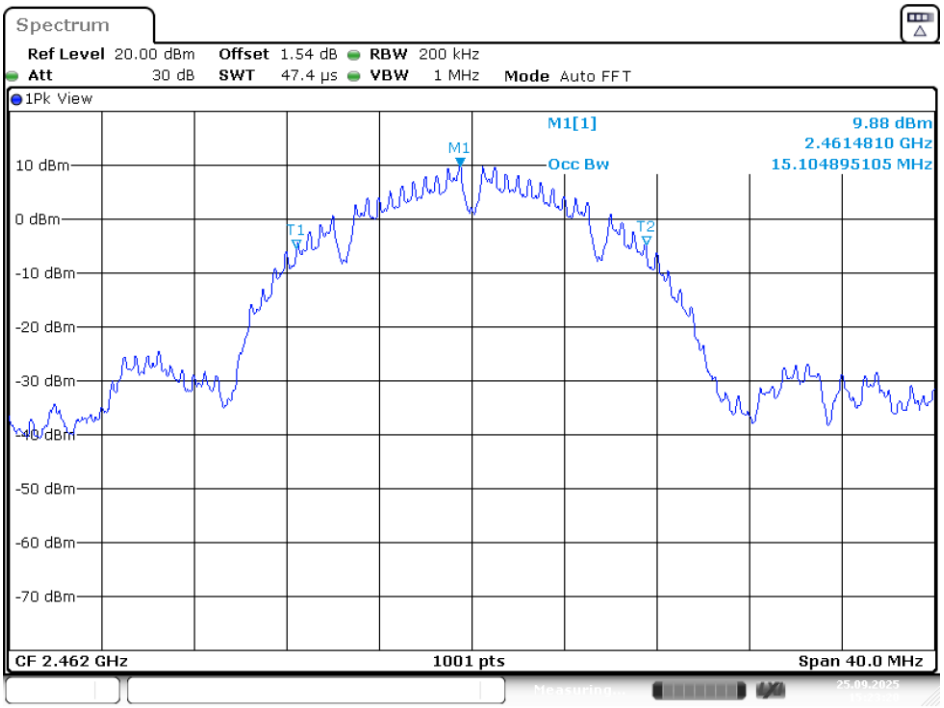
Middle Channel



Date: 25.SEP.2025 15:19:14

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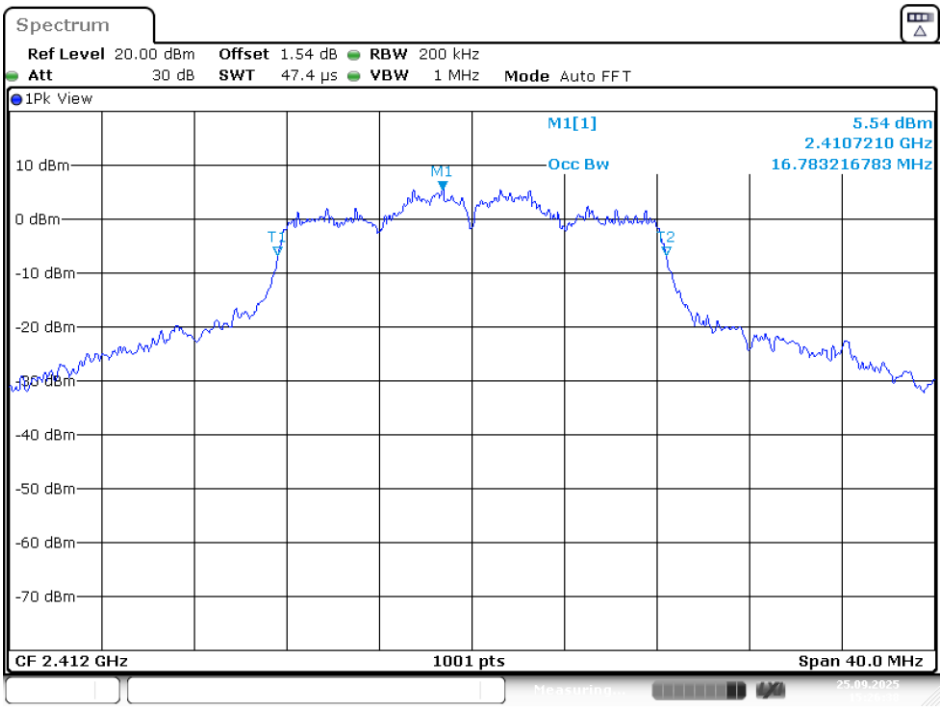
High Channel



Date: 25.SEP.2025 15:23:20

g Mode

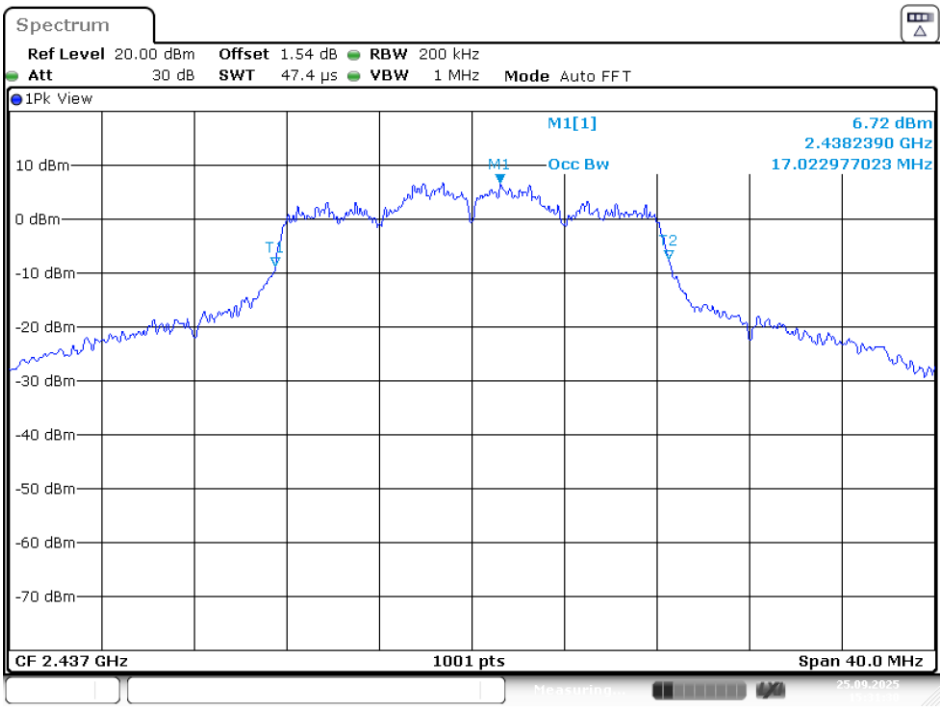
Low Channel



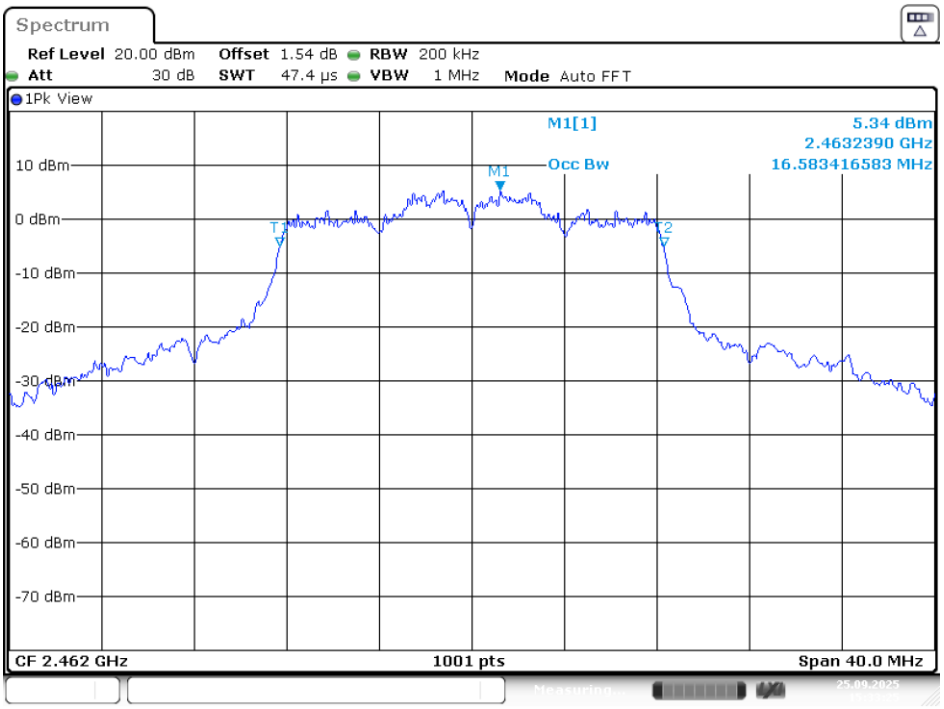
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Middle Channel



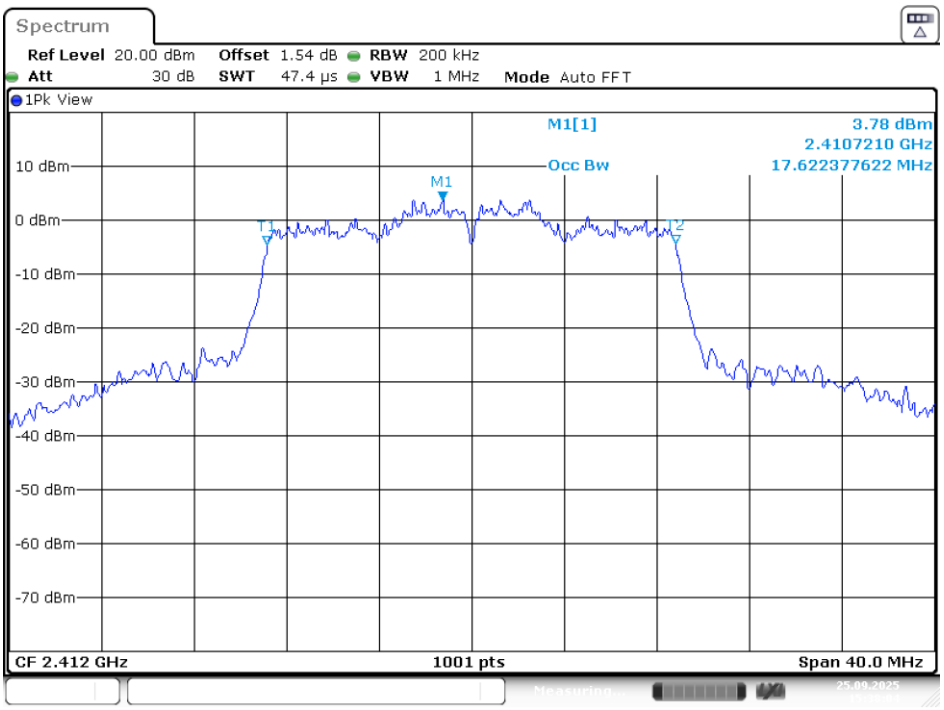
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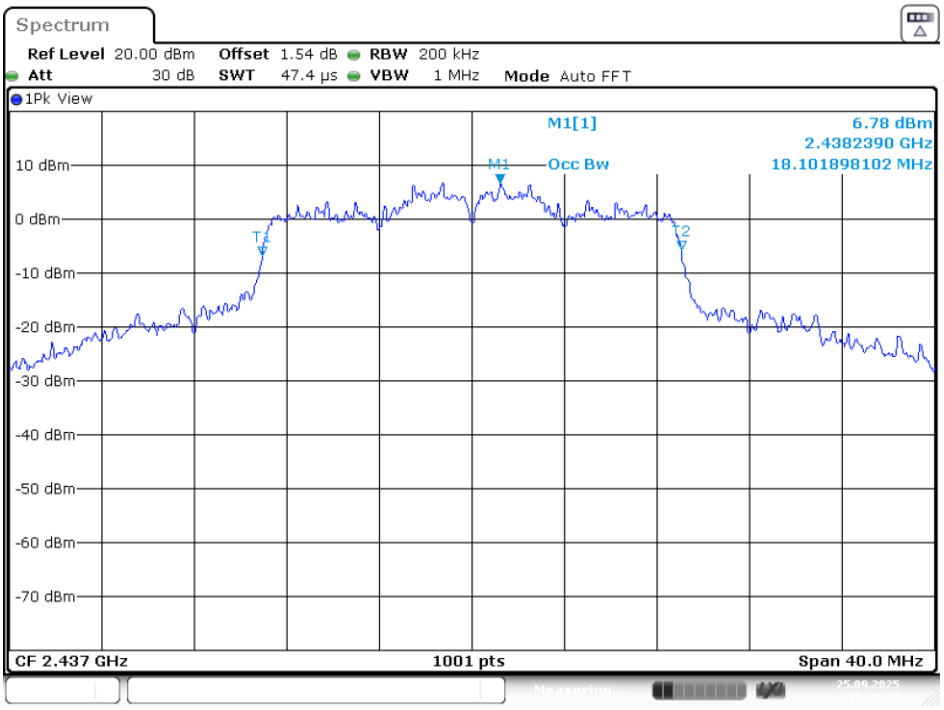
n20 Mode

Low Channel



Date: 25.SEP.2025 15:38:04

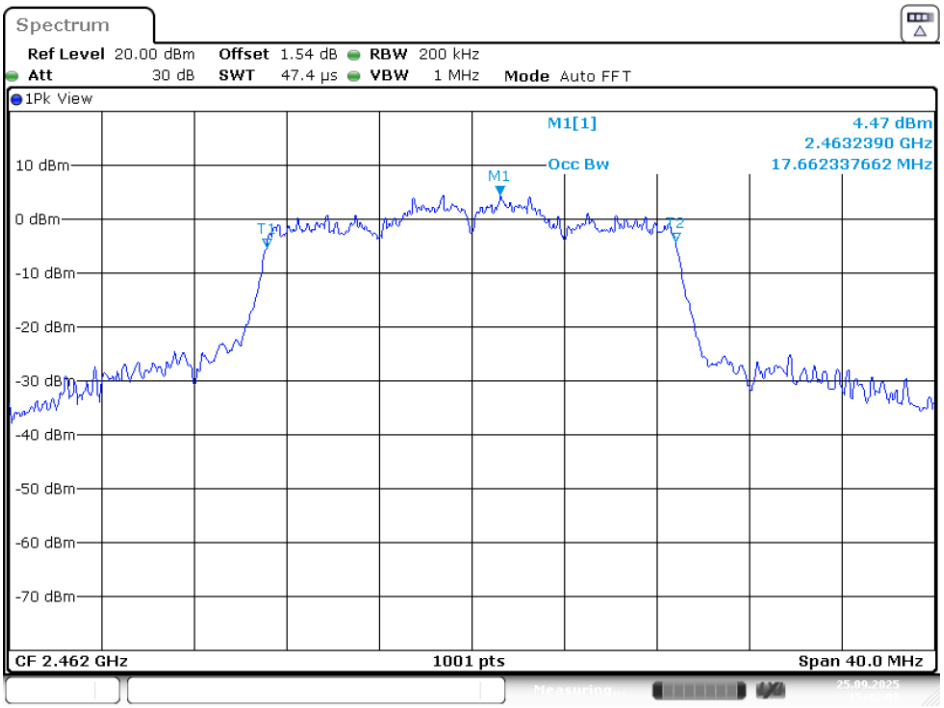
Middle Channel



Date: 25.SEP.2025 15:40:00

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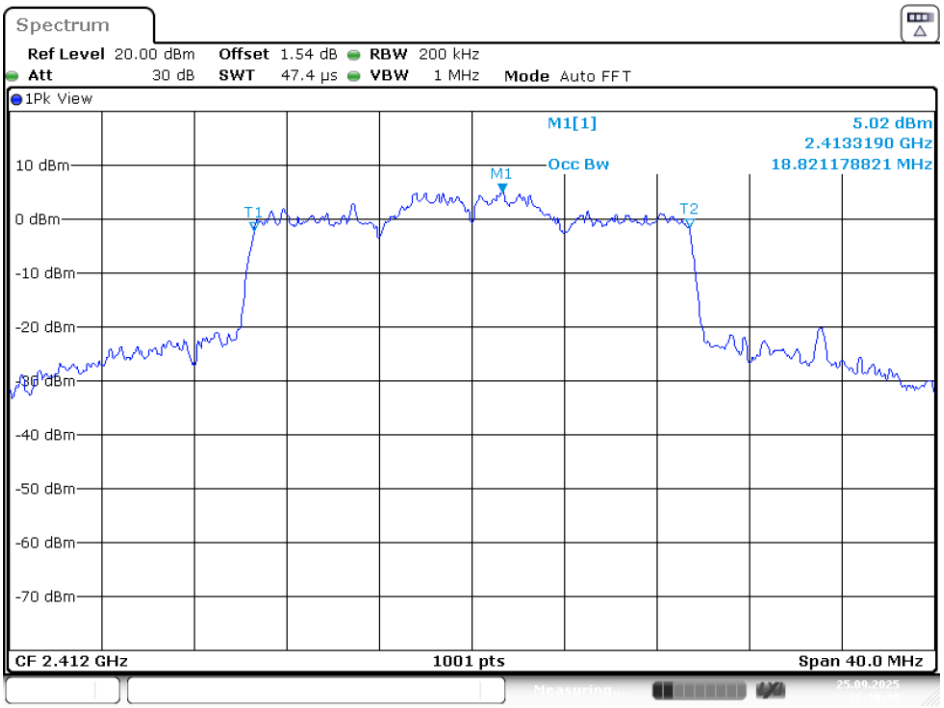
High Channel



Date: 25.SEP.2025 15:42:08

ax20 Mode

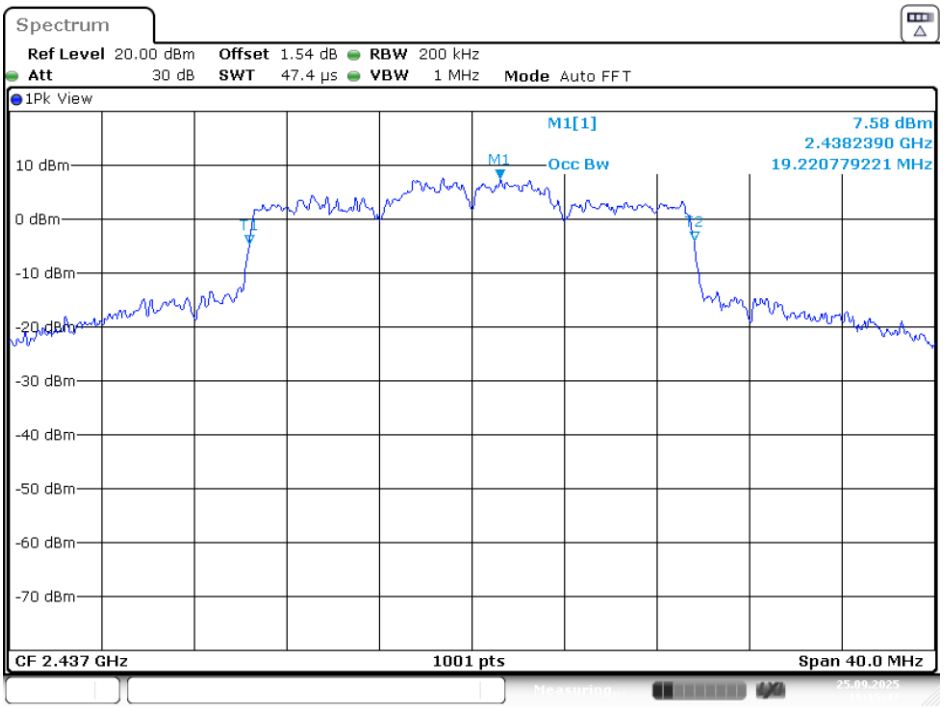
Low Channel



Date: 25.SEP.2025 16:10:30

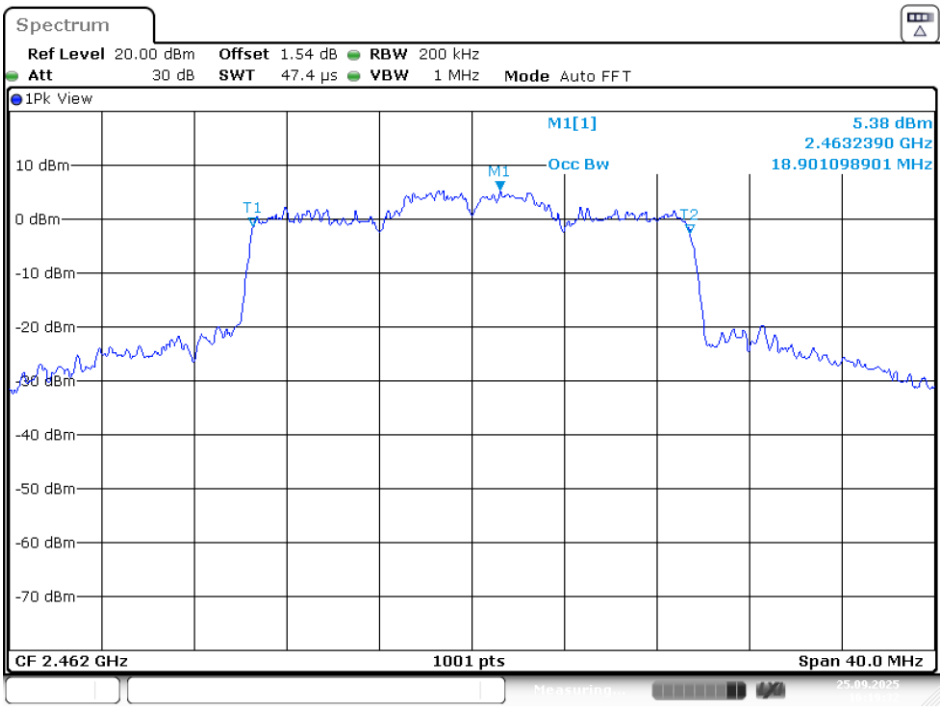
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

Middle Channel



Date: 25.SEP.2025 16:15:47

High Channel

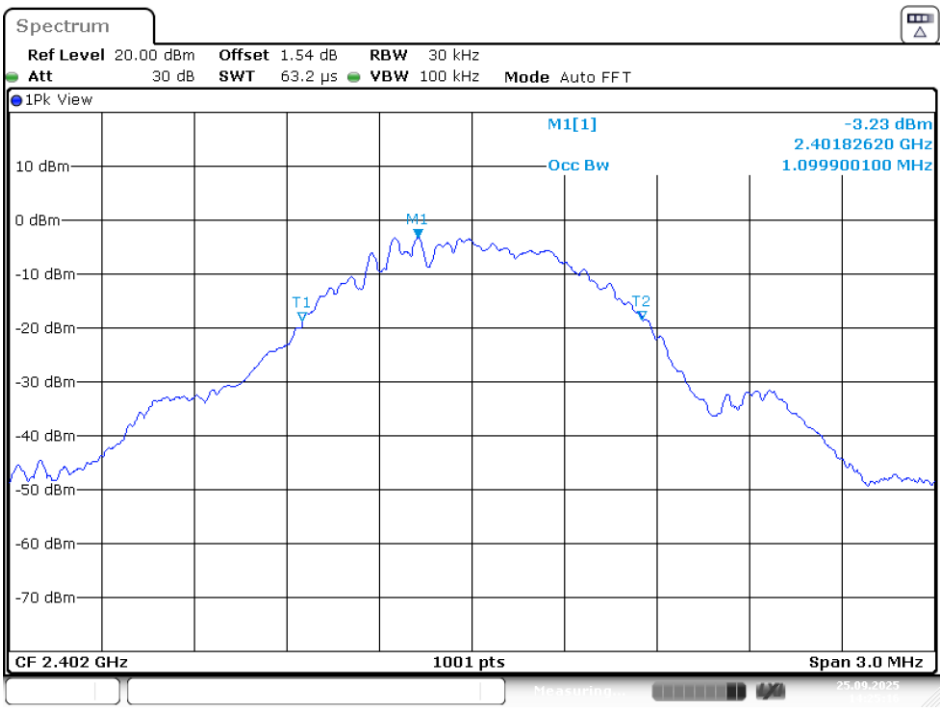


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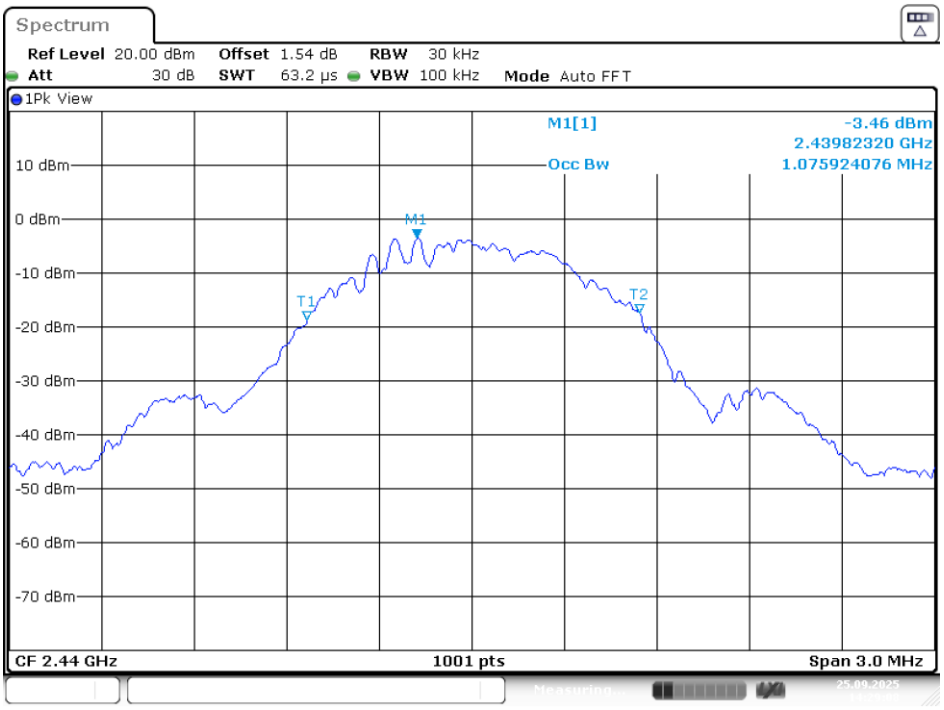
BLE (1M) Mode

Low Channel



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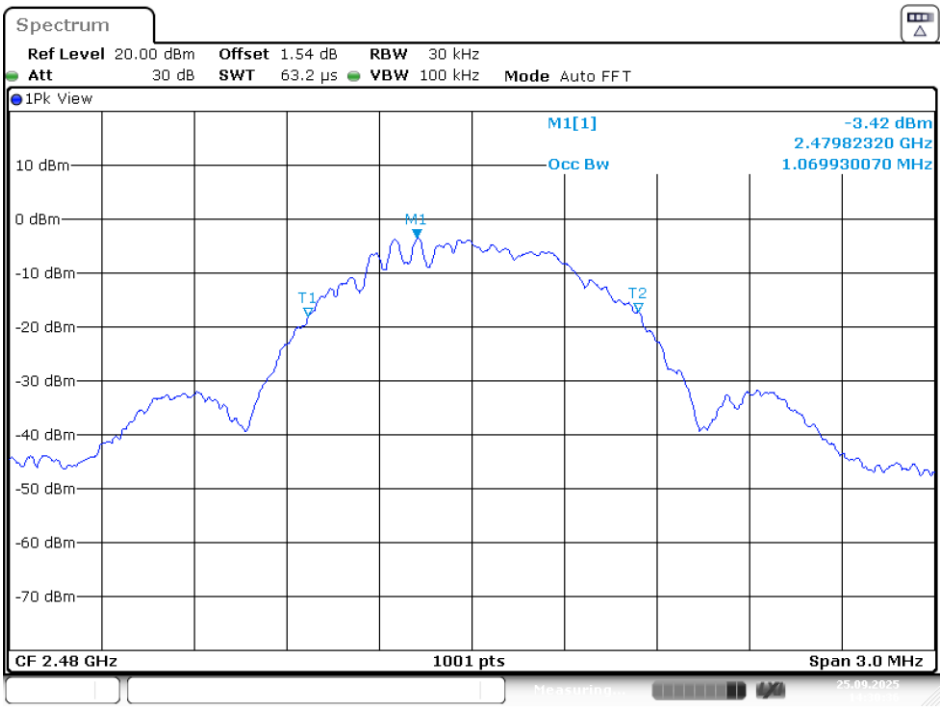
Middle Channel



Date: 25.SEP.2025 14:29:08

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High Channel



9 RSS-247 §6.3.2 – Maximum Output Power

9.1 Applicable Standard

According to RSS-247 §6.3.2

For DTS operating in the band 902-928 MHz, the maximum peak conducted output power shall not exceed 1W, and the e.i.r.p. shall not exceed 4 W.

For DTS operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W, and the e.i.r.p. shall not exceed 4 W, except as provided in section 6.5 a) and b).

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling 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 transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

9.2 Test Procedure

According to ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 ,section 11.9.1.2

According to ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 ,section 11.9.2.3.1

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 measuring equipment.

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9.3 Test Results

Conducted Peak Output Power

Channel	Frequency (MHz)	Average Power (dBm)	Peak Power (dBm)	Limit (dBm)	Antenna Gain (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Result
b Mode								
Low	2412	17.98	19.89	30	-0.2	19.69	36	PASS
Middle	2437	18.04	19.97	30	-0.2	19.77	36	PASS
High	2462	17.95	19.87	30	-0.2	19.67	36	PASS
g Mode								
Low	2412	14.92	19.58	30	-0.2	19.38	36	PASS
Middle	2437	15.19	19.59	30	-0.2	19.39	36	PASS
High	2462	15.25	19.80	30	-0.2	19.6	36	PASS
n20 Mode								
Low	2412	13.54	19.76	30	-0.2	19.56	36	PASS
Middle	2437	14.70	19.77	30	-0.2	19.57	36	PASS
High	2462	14.71	19.96	30	-0.2	19.76	36	PASS
ax20 Mode								
Low	2412	14.00	19.80	30	-0.2	19.6	36	PASS
Middle	2437	15.18	19.65	30	-0.2	19.45	36	PASS
High	2452	15.19	19.81	30	-0.2	19.61	36	PASS
BLE(1M) Mode								
Low	2402	1.58	1.63	30	-0.2	1.43	36	PASS
Middle	2440	1.45	1.51	30	-0.2	1.31	36	PASS
High	2480	1.16	1.23	30	-0.2	1.03	36	PASS

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10 RSS-247 §6.6 – 100 kHz Bandwidth of Frequency Band Edge

10.1 Applicable Standard

According to RSS-247 §6.6.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum device, digitally modulated device, or hybrid system is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 6.3.2, the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

10.2 Test Procedure

According to ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 Section 11.11

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 its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. 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.
4. 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.
5. Repeat above procedures until all measured frequencies were complete.

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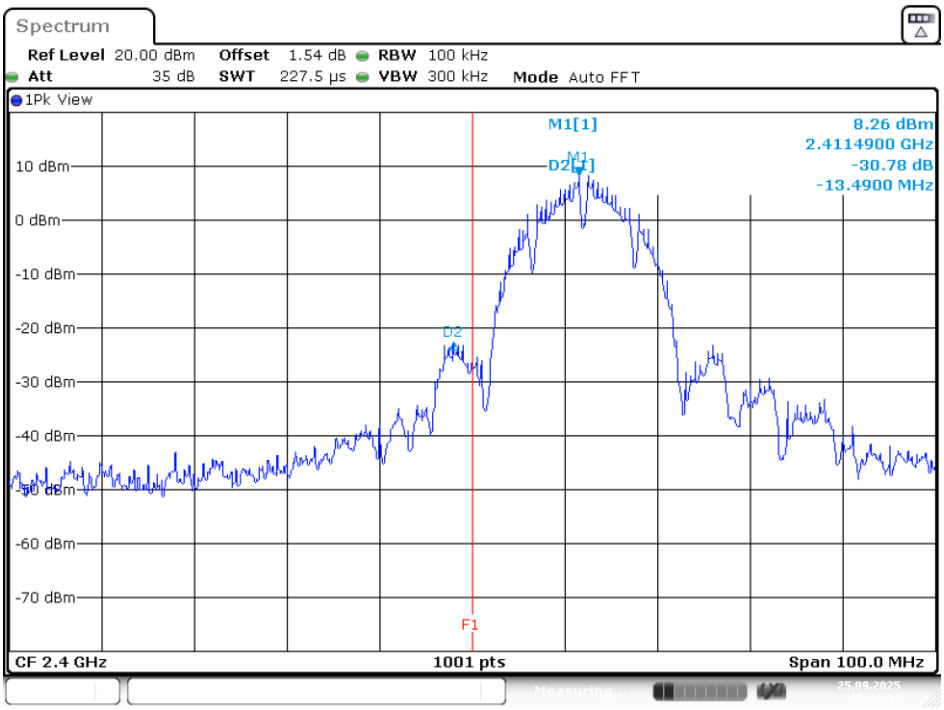
10.3 Test Results

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
b Mode				
Low	2412	30.78	≥ 20	PASS
High	2462	46.17	≥ 20	PASS
g Mode				
Low	2412	26.69	≥ 20	PASS
High	2462	41.09	≥ 20	PASS
n20 Mode				
Low	2412	30.36	≥ 20	PASS
High	2462	42.10	≥ 20	PASS
ax20 Mode				
Low	2412	28.49	≥ 20	PASS
High	2462	38.37	≥ 20	PASS
BLE(1M) Mode				
Low	2402	44.74	≥ 20	PASS
High	2480	47.79	≥ 20	PASS

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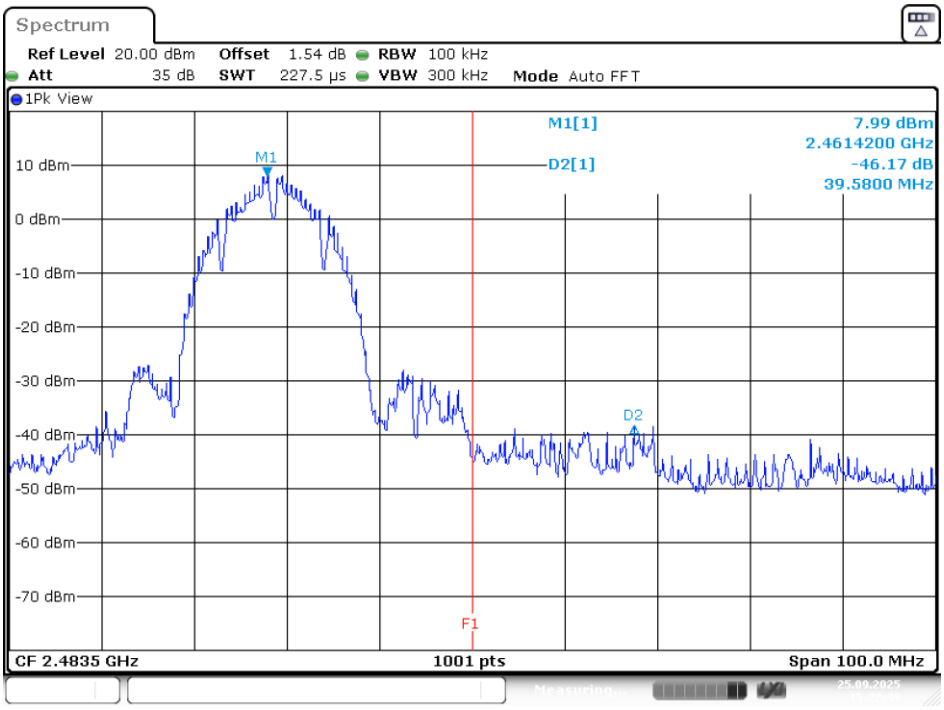
b Mode

Band Edge, Left Side



Date: 25.SEP.2025 15:09:34

Band Edge, Right Side

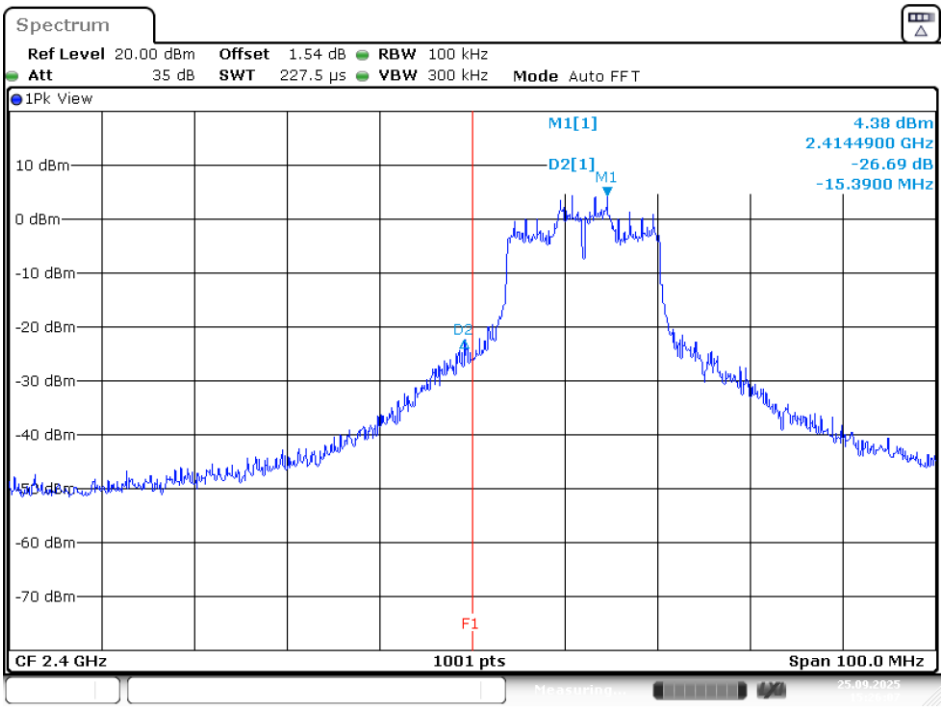


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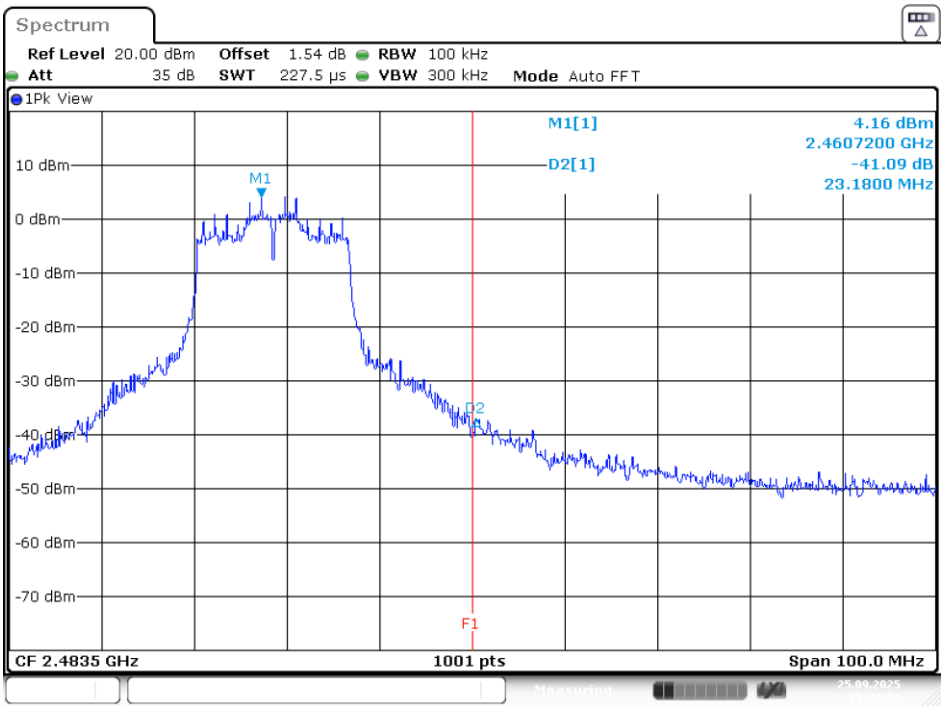
g Mode

Band Edge, Left Side



Date: 25.SEP.2025 15:26:08

Band Edge, Right Side

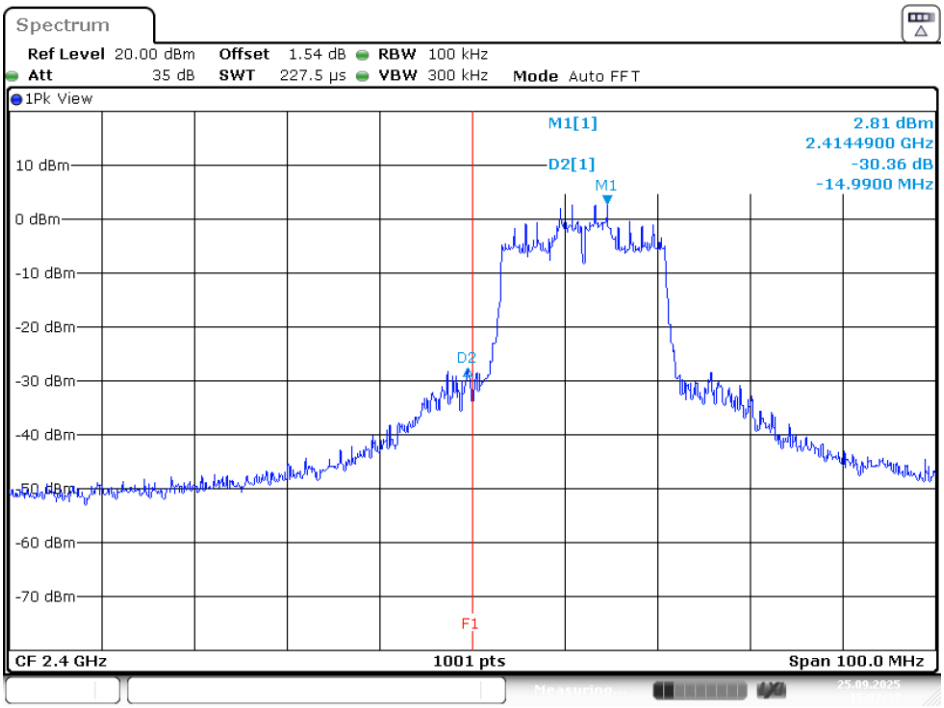


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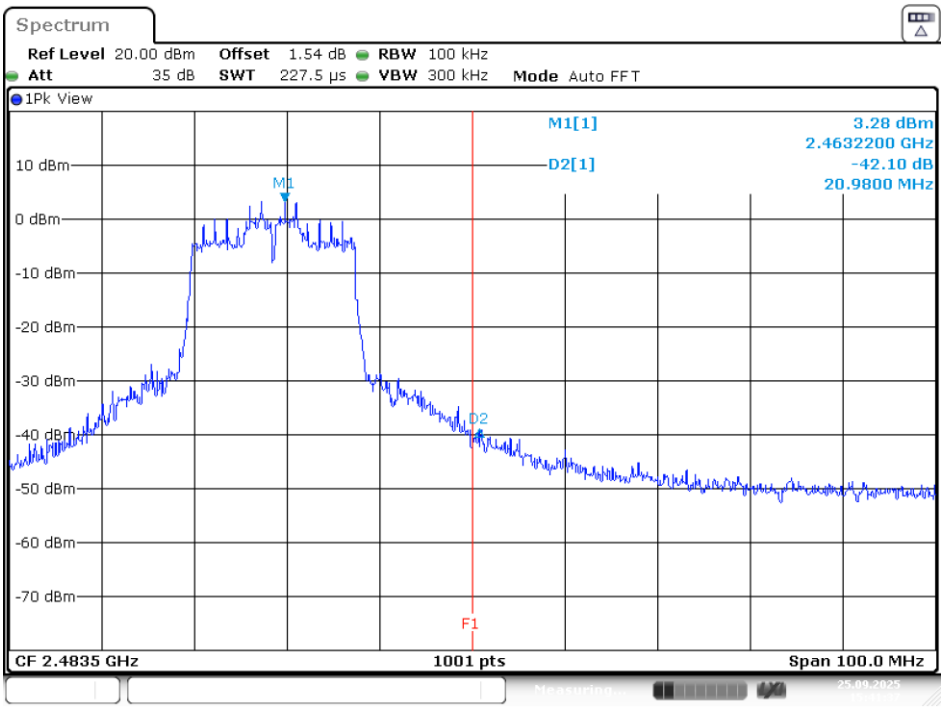
n20 Mode

Band Edge, Left Side



Date: 25.SEP.2025 15:37:33

Band Edge, Right Side

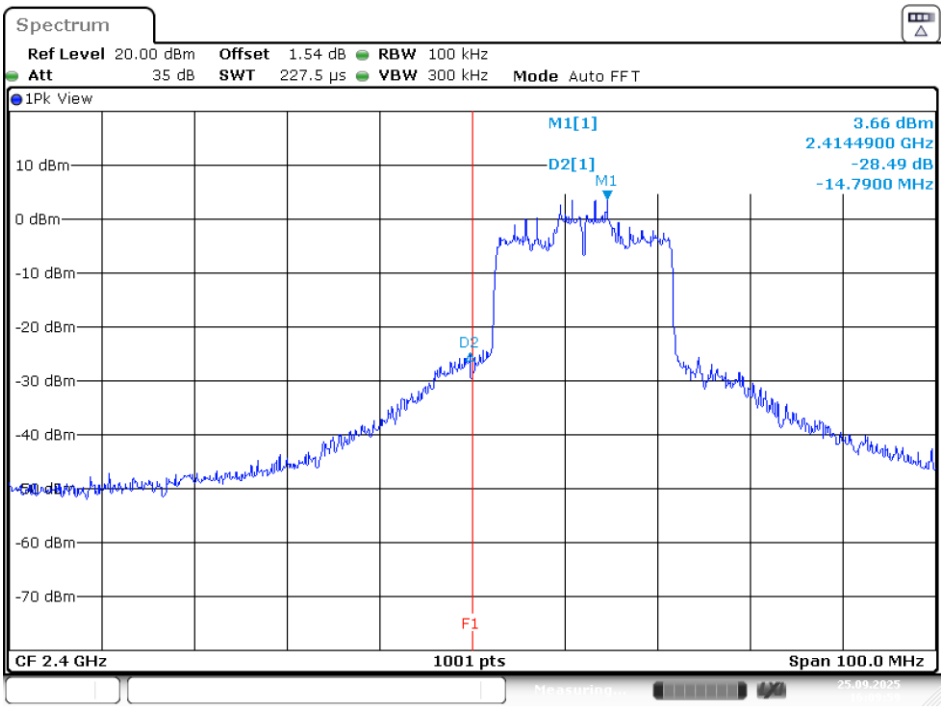


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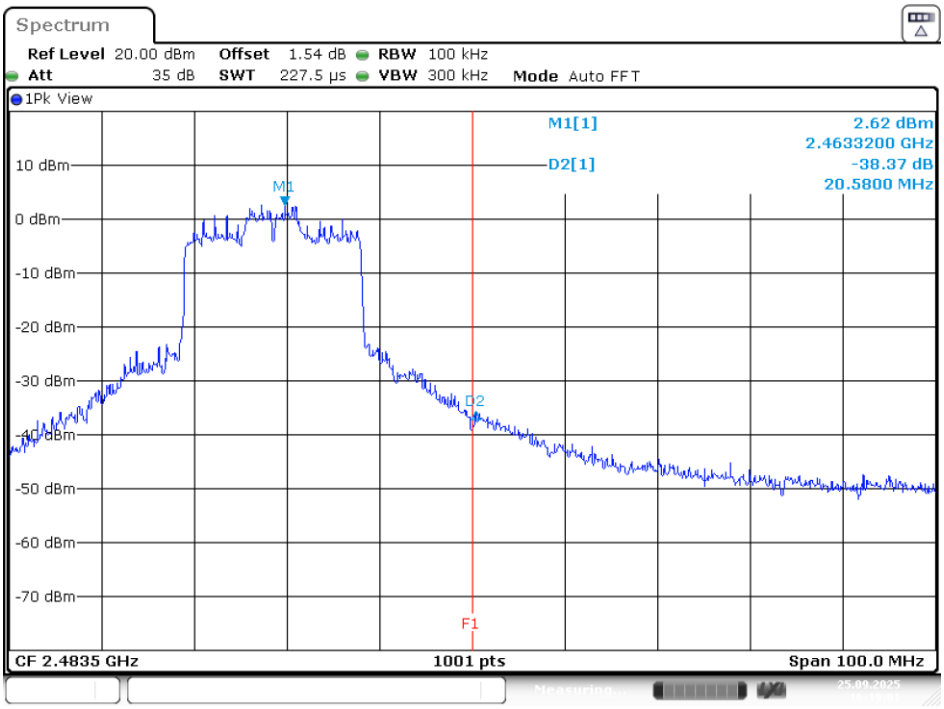
ax20 Mode

Band Edge, Left Side



Date: 25.SEP.2025 16:09:59

Band Edge, Right Side

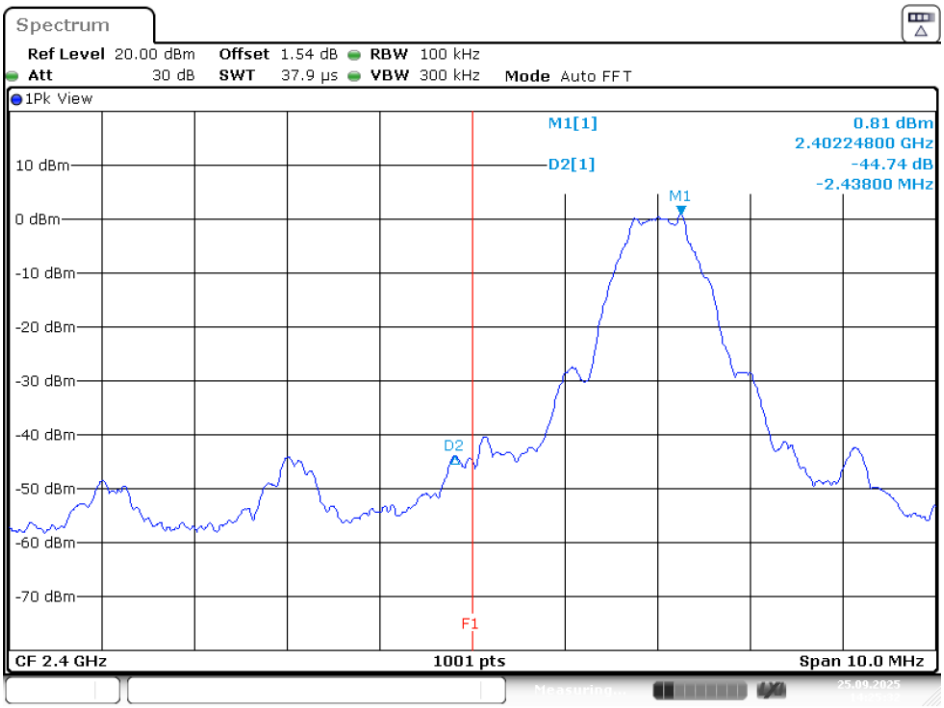


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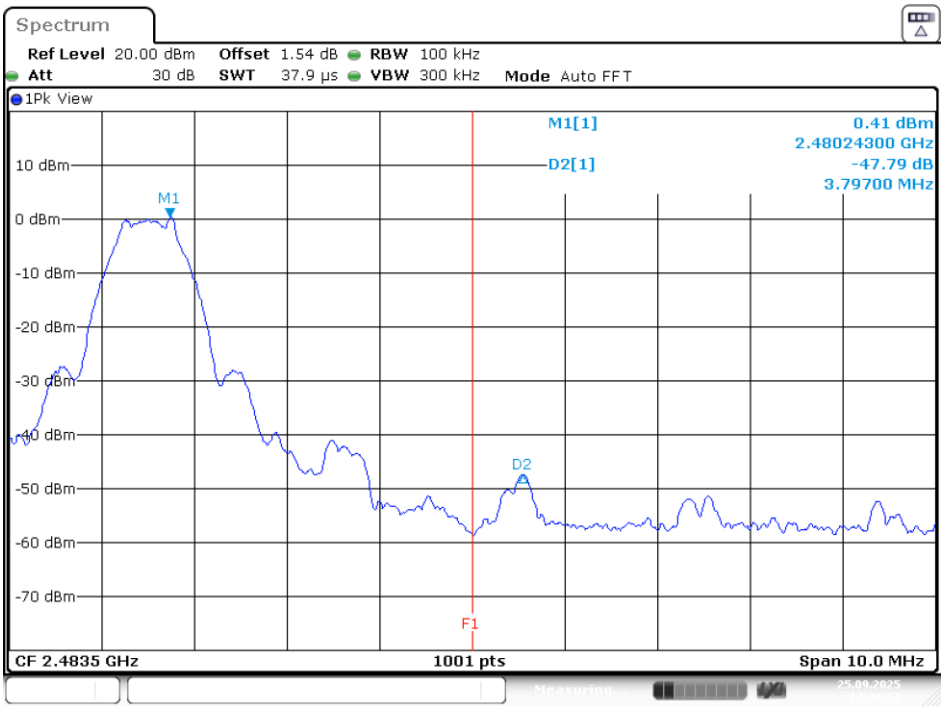
BLE (1M) Mode

Band Edge, Left Side



Date: 25.SEP.2025 14:25:32

Band Edge, Right Side



Date: 25.SEP.2025 14:30:52

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11 RSS-247 §6.3.1(b) – Power Spectral Density

11.1 Applicable Standard

According to RSS-247 §6.3.1(b).

The transmitter power spectral density conducted from the transmitter to the antenna(s) shall not be greater than 8 dBm/3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 6.3.2 The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

11.2 Test Procedure

According to ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span > 1.5 times the DTS bandwidth.

c) Set the RBW to 3 kHz ≤ RBW ≤ 100 kHz.

d) Set the VBW ≥ [3 × 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 requirement, then reduce RBW (but no less than 3 kHz) and repeat

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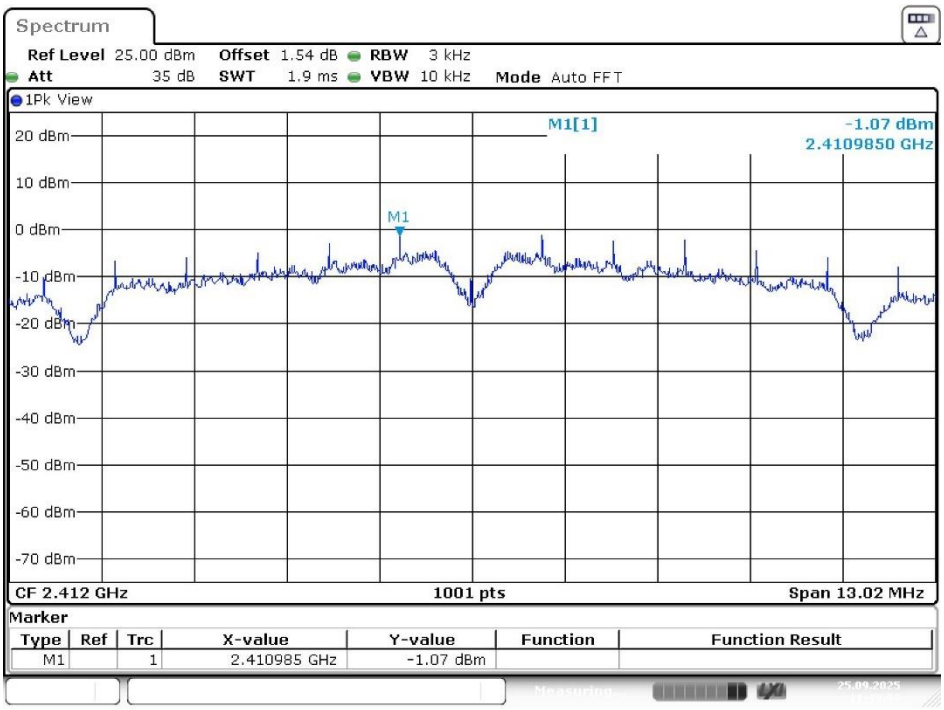
11.3 Test Results

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm/3 kHz)	Result
b Mode				
Low	2412	-1.07	8	PASS
Middle	2437	1.88	8	PASS
High	2462	-0.37	8	PASS
g Mode				
Low	2412	-8.23	8	PASS
Middle	2437	-6.97	8	PASS
High	2462	-9.46	8	PASS
n20 Mode				
Low	2412	-10.10	8	PASS
Middle	2437	-7.22	8	PASS
High	2462	-10.09	8	PASS
ax20 Mode				
Low	2412	-10.03	8	PASS
Middle	2437	-7.92	8	PASS
High	2462	-8.97	8	PASS
BLE(1M) Mode				
Low	2402	-14.94	8	PASS
Middle	2440	-14.99	8	PASS
High	2480	-15.59	8	PASS

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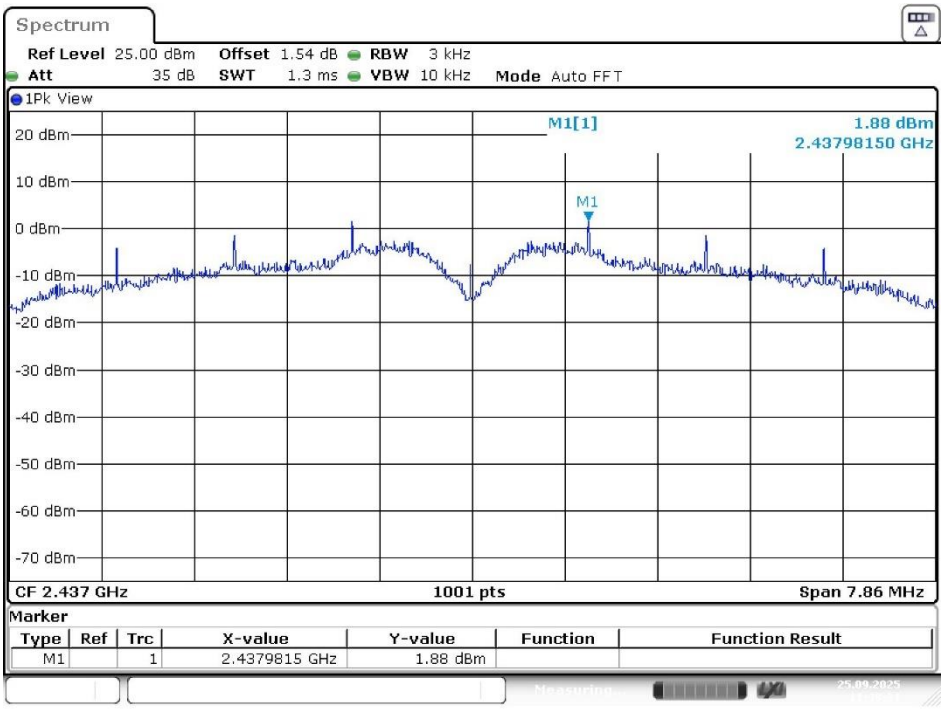
b Mode

Low Channel



Date: 25.SEP.2025 11:39:36

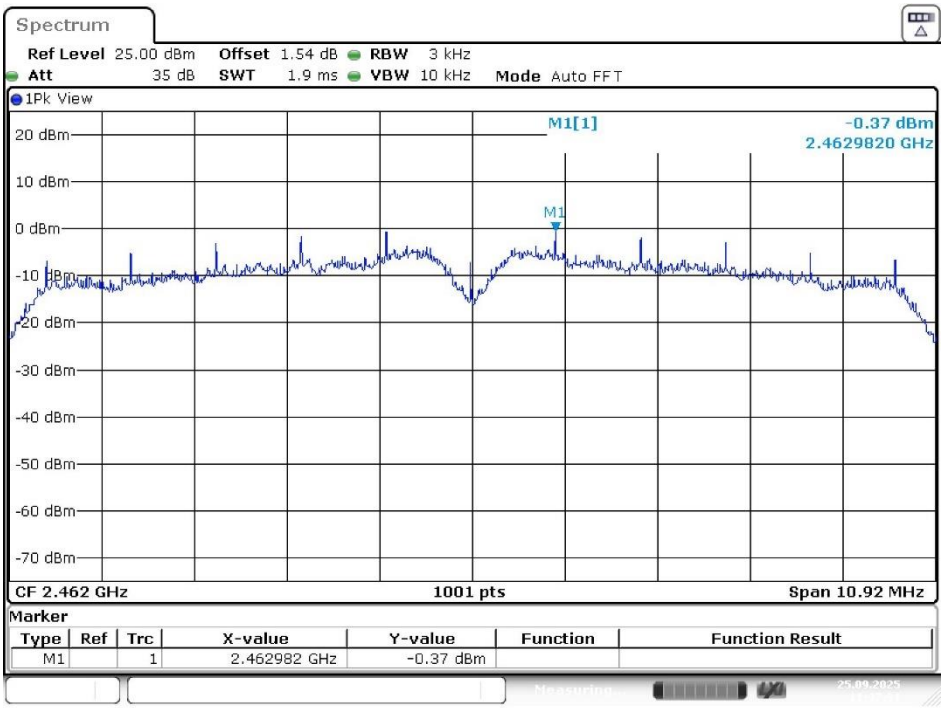
Middle Channel



Date: 25.SEP.2025 11:38:31

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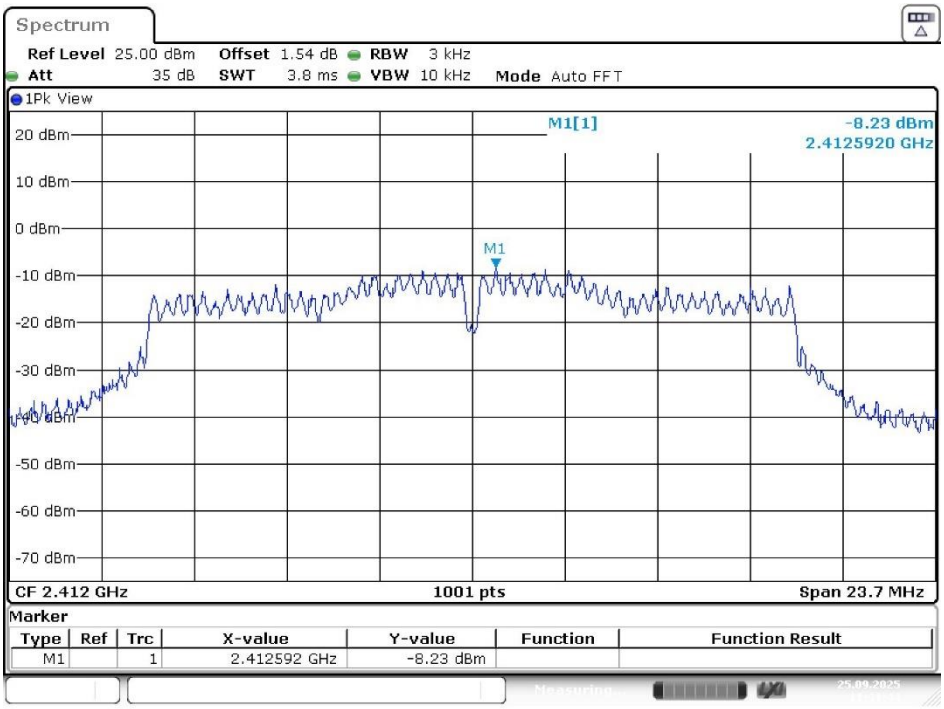
High Channel



Date: 25.SEP.2025 11:37:31

g Mode

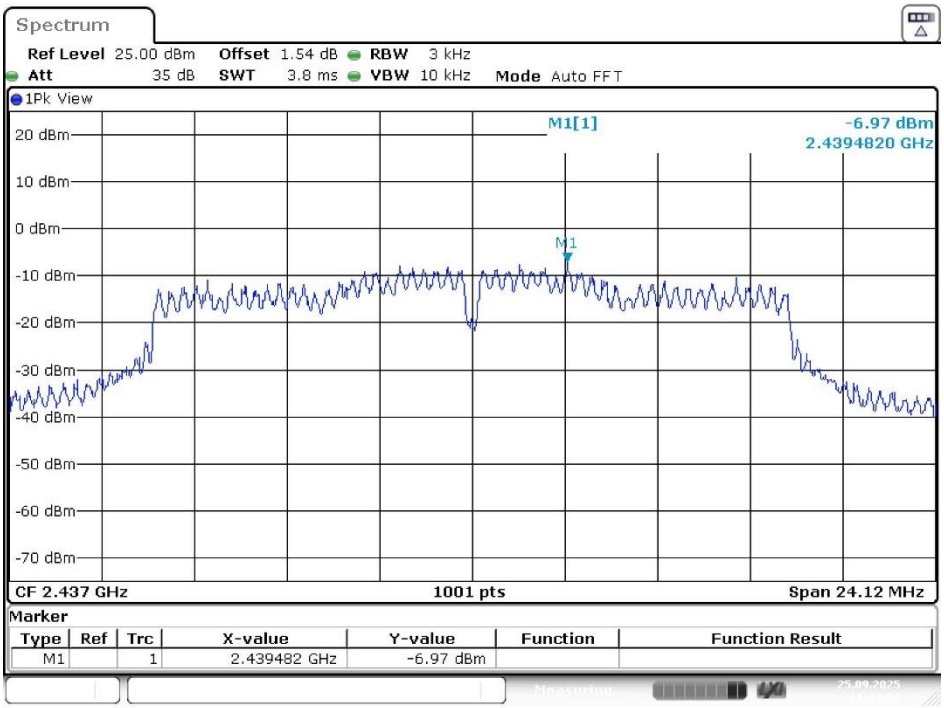
Low Channel



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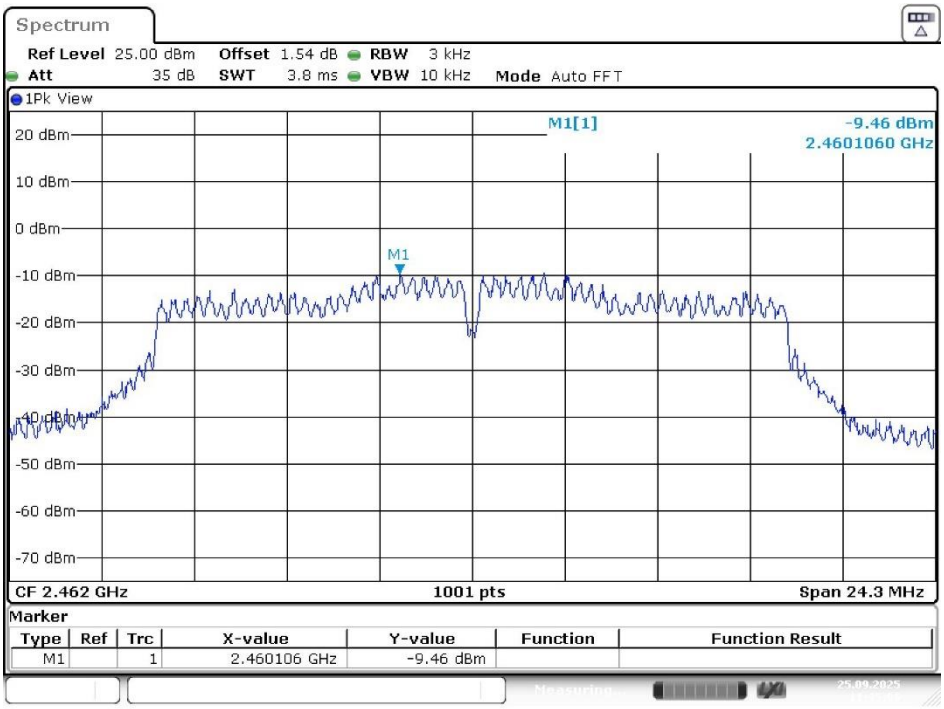
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

Middle Channel



Date: 25.SEP.2025 11:34:00

High Channel

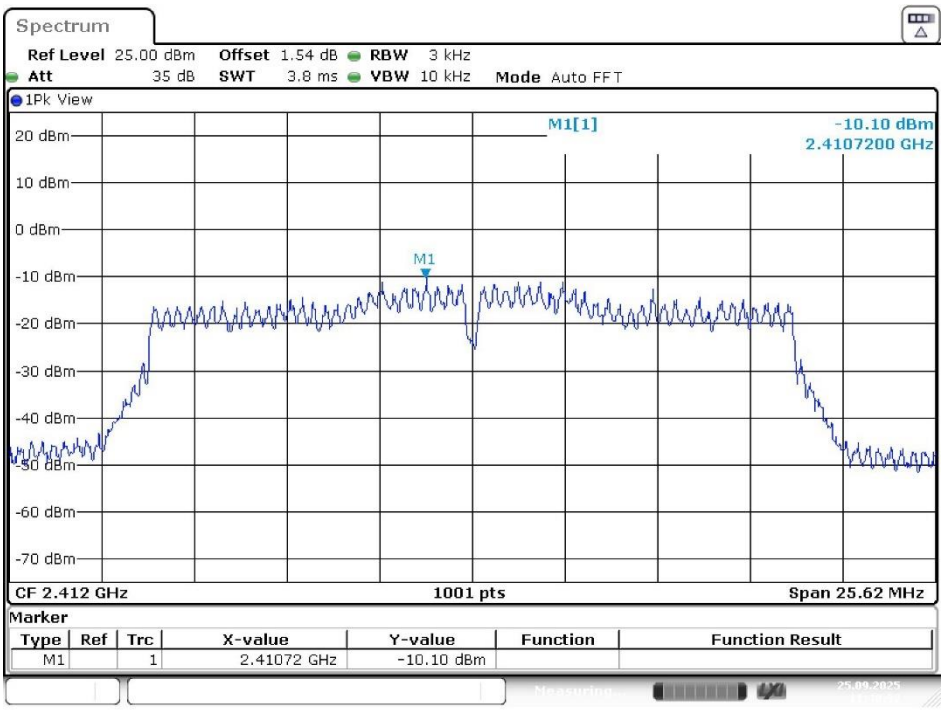


Date: 25.SEP.2025 11:35:07

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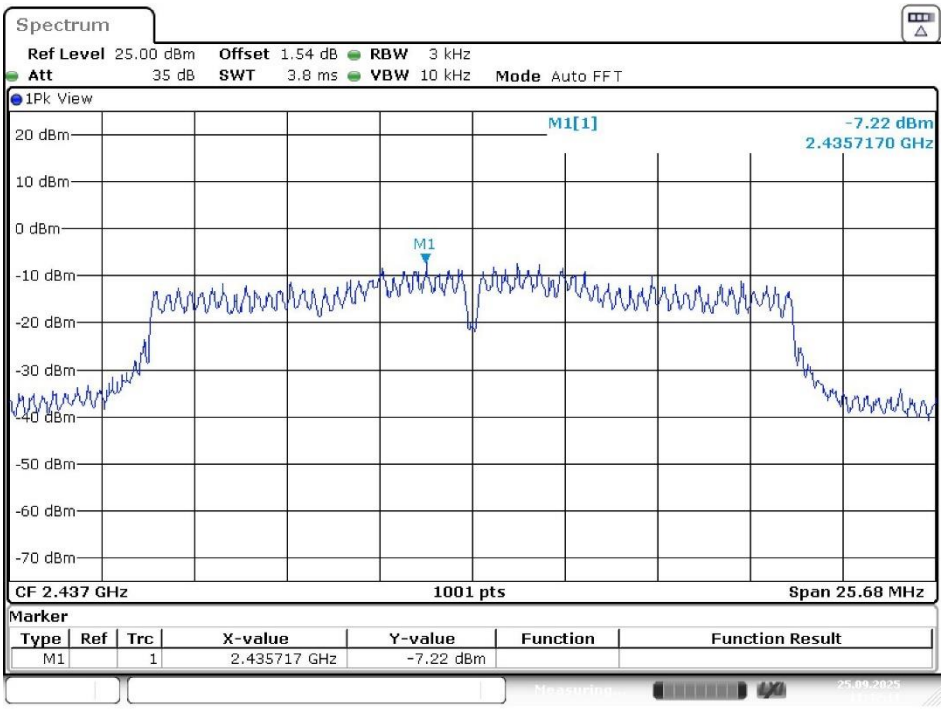
n20 Mode

Low Channel



Date: 25.SEP.2025 11:40:32

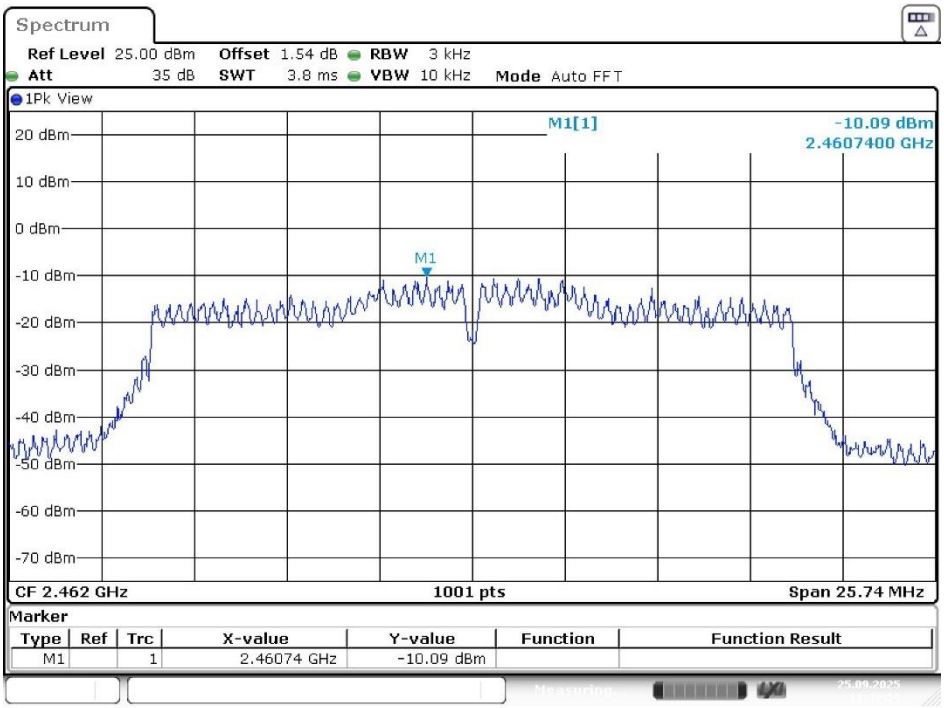
Middle Channel



Date: 25.SEP.2025 11:42:11

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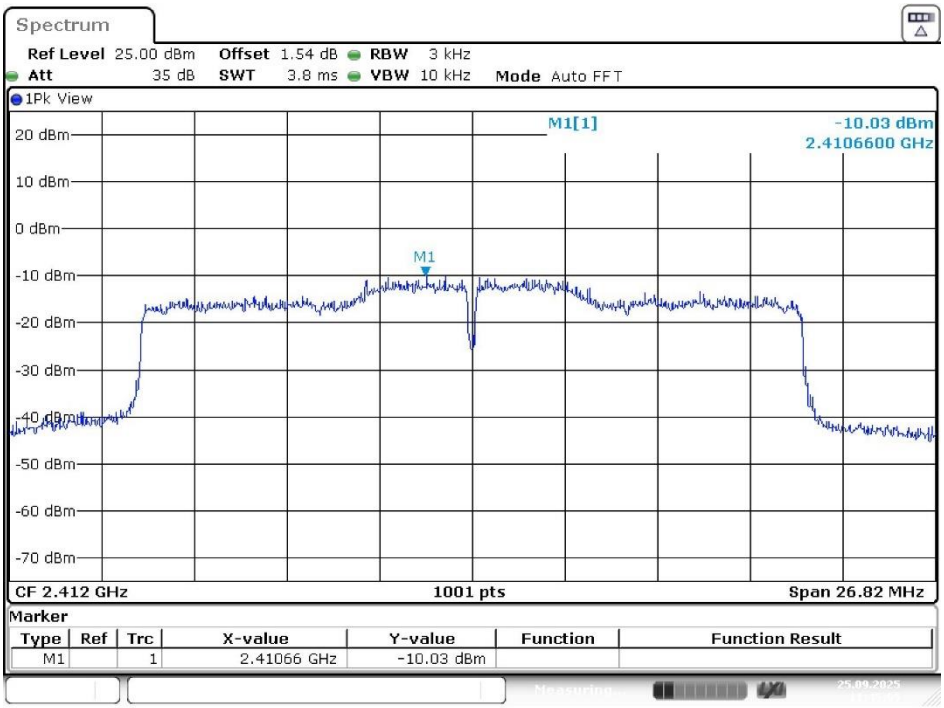
High Channel



Date: 25.SEP.2025 11:42:59

ax20 Mode

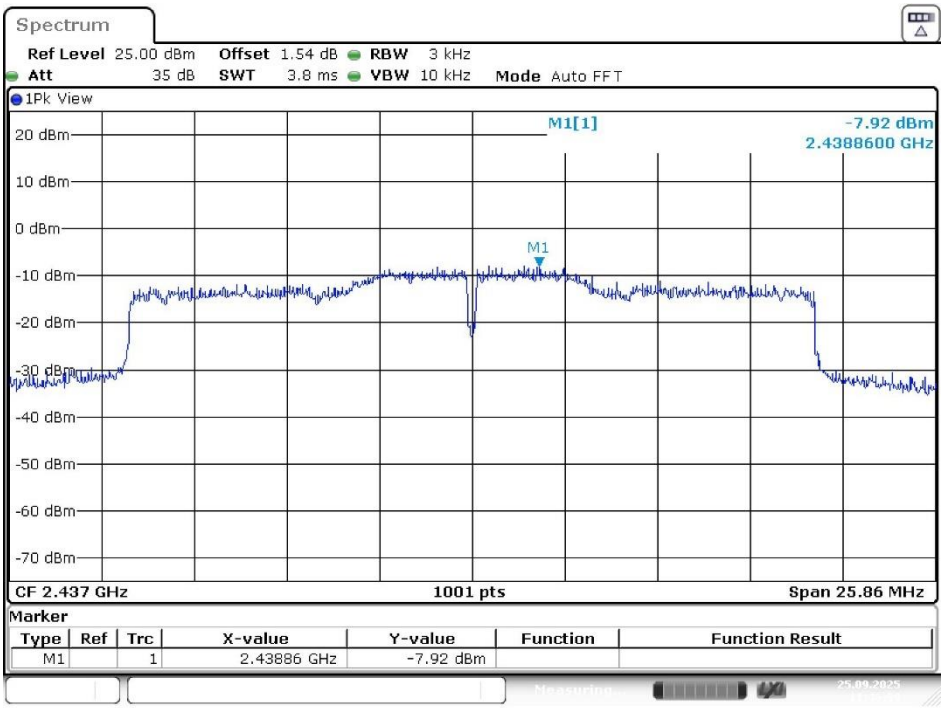
Low Channel



Date: 25.SEP.2025 11:45:05

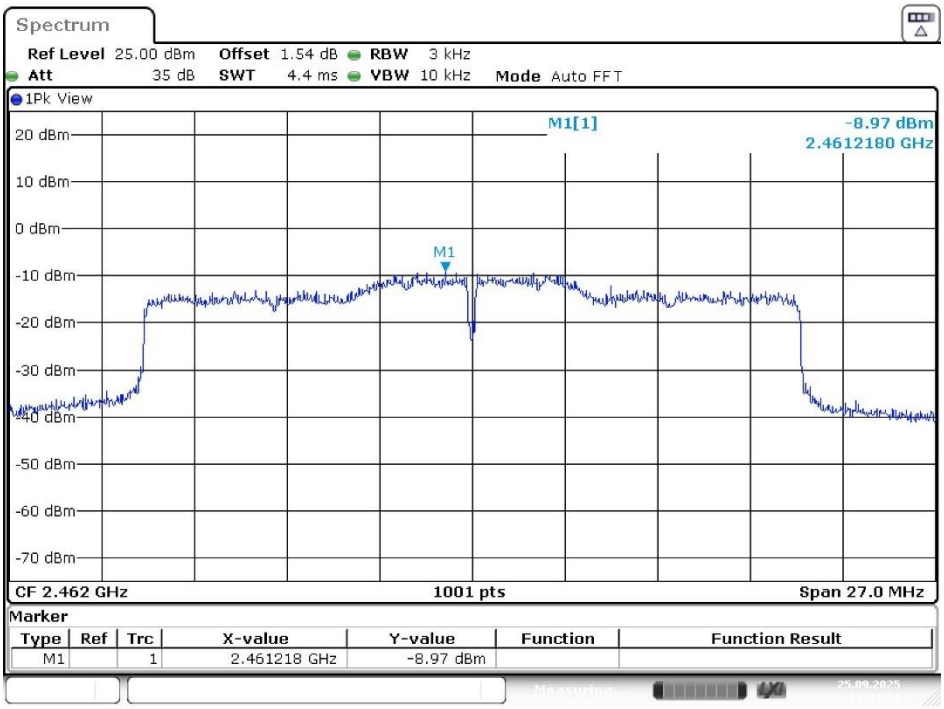
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Middle Channel



Date: 25.SEP.2025 11:46:39

High Channel

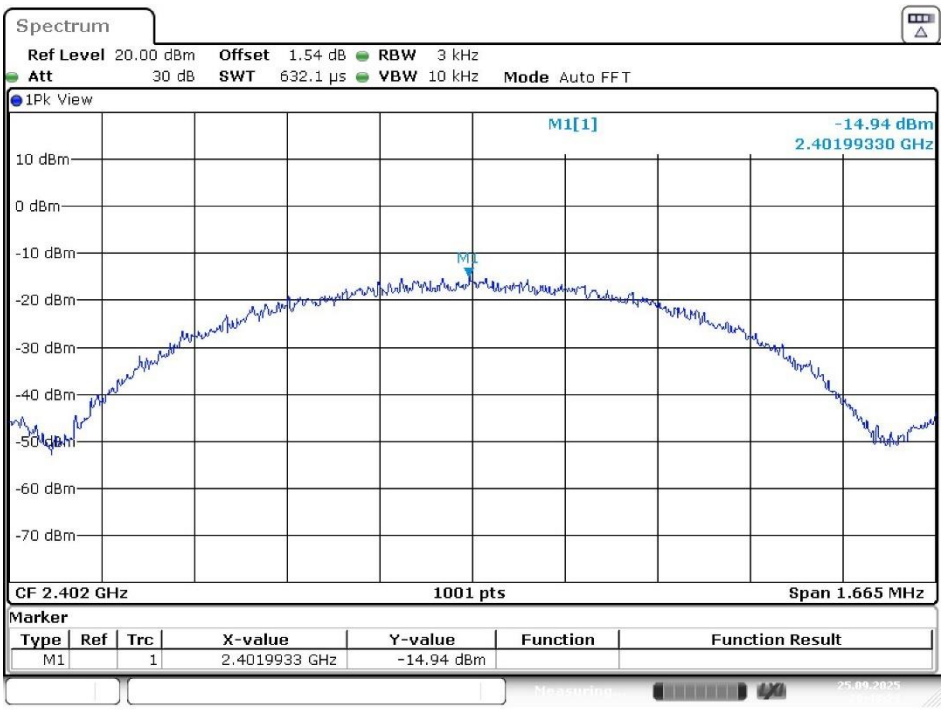


Date: 25.SEP.2025 11:48:01

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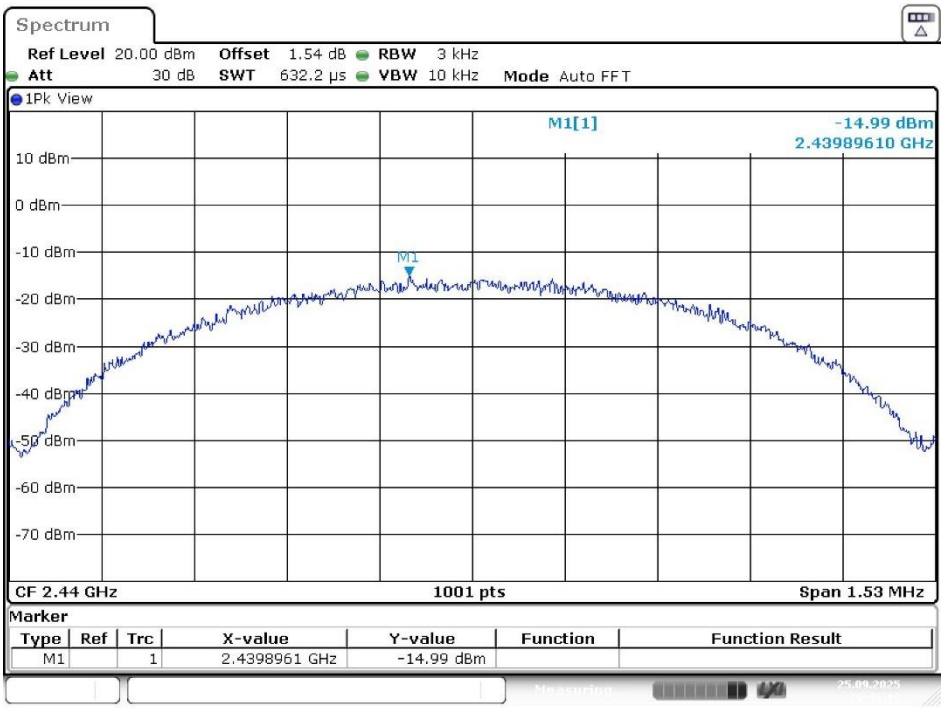
BLE (1M) Mode

Low Channel



Date: 25.SEP.2025 20:48:24

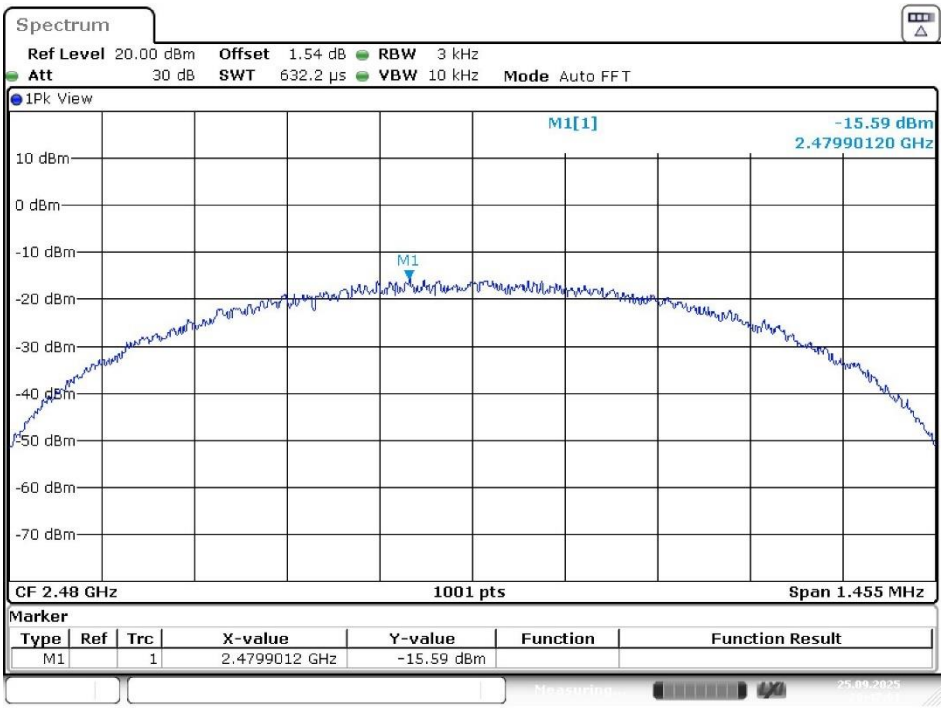
Middle Channel



Date: 25.SEP.2025 20:46:19

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High Channel



Date: 25.SEP.2025 20:47:01

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