

FCC Part 15.247

TEST REPORT

For

M2communication INC.

17F-3, No. 32, Gaotie 2nd Rd., Zhubei City, Hsinchu County, Taiwan (R.O.C.)

FCC ID: 2AFXU-DUO01

Report Type:
Original Report

Product Type:
DUO

Report Producer : Coco Lin

Report Number : RXZ250703013RF02

Report Date : 2025-10-15

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Revision History

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0.0	RXZ250703013	RXZ250703013RF02	2025-10-15	Original Report	Coco Lin

TABLE OF CONTENTS

1	General Information	5
1.1	Product Description for Equipment under Test (EUT)	5
1.2	Objective	6
1.3	Test Methodology.....	6
1.4	Statement of Compliance	6
1.5	Measurement Uncertainty	7
1.6	Environmental Conditions.....	7
1.7	Test Facility.....	7
2	System Test Configuration.....	8
2.1	Description of Test Configuration.....	8
2.2	Equipment Modifications	8
2.3	EUT Exercise Software	9
2.4	Support Equipment List and Details.....	9
2.5	External Cable List and Details.....	9
2.6	Test Mode.....	9
2.7	Block Diagram of Test Setup	10
2.8	Duty Cycle.....	12
3	Summary of Test Results.....	13
4	Test Equipment List and Details	14
5	FCC §15.203 – Antenna Requirements.....	15
5.1	Applicable Standard	15
5.2	Antenna Information	15
6	FCC §15.207(a) – AC Line Conducted Emissions	16
6.1	Applicable Standard.....	16
6.2	EUT Setup	16
6.3	EMI Test Receiver Setup	17
6.4	Test Procedure.....	17
6.5	Corrected Factor & Margin Calculation	17
6.6	Test Results	18
7	FCC §15.209, §15.205 , §15.247(d) – Spurious Emissions	19
7.1	Applicable Standard.....	19
7.2	EUT Setup.....	20
7.3	EMI Test Receiver & Spectrum Analyzer Setup.....	21
7.4	Test Procedure.....	21
7.5	Corrected Factor & Margin Calculation	22
7.6	Test Results	22
8	FCC §15.247(a)(2) – 6 dB Emission Bandwidth.....	37
8.1	Applicable Standard.....	37
8.2	Test Procedure.....	37
8.3	Test Results	37
9	FCC §15.247(b)(3) – Maximum Output Power.....	41
9.1	Applicable Standard.....	41
9.2	Test Procedure.....	41
9.3	Test Results	41
10	FCC§15.247(d) – 100 kHz Bandwidth of Frequency Band Edge	42
10.1	Applicable Standard.....	42

10.2 Test Procedure 42

10.3 Test Results 42

11 FCC §15.247(e) – Power Spectral Density 45

11.1 Applicable Standard..... 45

11.2 Test Procedure..... 45

11.3 Test Results 45

1 General Information

1.1 Product Description for Equipment under Test (EUT)

Applicant	M2communication INC.
	17F-3, No. 32, Gaotie 2nd Rd., Zhubei City, Hsinchu County ,Taiwan (R.O.C.)
Brand(Trade) Name	M2COMM
Product (Equipment)	DUO
Main Model Name	DUO
Series Model Name	N/A
Frequency Range	LoRa Mode: 903 ~ 927 MHz
Maximum Conducted Peak Output Power	LoRa Mode Antenna 1: 16.00 dBm Antenna 2: 15.48 dBm
Modulation Technique	GFSK
Power Operation (Voltage Range)	5Vdc from Adapter , 48Vdc from POE
Received Date	2025/07/22

*All measurement and test data in this report was gathered from production sample serial number: RXZ250703013-1. (Assigned by BACL, New Taipei Laboratory).

1.2 Objective

This report is prepared on behalf of *M2communication INC.* in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communication Commission's rules.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

KDB 558074 D01 15.247 Meas Guidance v05r02

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. (New Taipei Laboratory).
2. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.
3. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
4. The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.
5. Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

1.5 Measurement Uncertainty

Parameter		Uncertainty
AC Mains		+/- 3.02 dB
RF output power, conducted		+/- 0.57 dB
Occupied Bandwidth		+/- 0.09 %
Unwanted Emissions, conducted		+/- 1.09 dB
Emissions, radiated	9 kHz~30 MHz	+/- 3.20 dB
	30 MHz~1 GHz	+/- 3.30 dB
	1 GHz~18 GHz	+/- 5.14 dB
Temperature		+/- 0.76 °C
Humidity		+/- 0.41 %

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

1.6 Environmental Conditions

Test Site	Test Date	Temperature (°C)	Relative Humidity (%)	Test Engineer
AC Line Conducted Emissions	2025/8/5	23.6	51	Jing
Radiation Spurious Emissions	2025/7/31~2025/9/15	23.8~25.6	48~62	Nick
Duty Cycle	2025/9/8	27	48	Sean
Conducted Spurious Emissions	2025/9/8	27	48	Sean
Emission Bandwidth	2025/9/8	27	48	Sean
Maximum Output Power	2025/9/8	27	48	Sean
100 kHz Bandwidth of Frequency Band Edge	2025/9/8	27	48	Sean
Power Spectral Density	2025/9/8	27	48	Sean

1.7 Test Facility

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

☒ 70, Lane 169, Sec. 2, Datong Road, Xizhi Dist., New Taipei City 22183, Taiwan, R.O.C.

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

2 System Test Configuration

2.1 Description of Test Configuration

For LoRa mode, 97 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	903	21	908	41	913	61	918	81	923
2	903.25	22	908.25	42	913.25	62	918.25	82	923.25
3	903.5	23	908.5	43	913.5	63	918.5	83	923.5
4	903.75	24	908.75	44	913.75	64	918.75	84	923.75
5	904	25	909	45	914	65	919	85	924
6	904.25	26	909.25	46	914.25	66	919.25	86	924.25
7	904.5	27	909.5	47	914.5	67	919.5	87	924.5
8	904.75	28	909.75	48	914.75	68	919.75	88	924.75
9	905	29	910	49	915	69	920	89	925
10	905.25	30	910.25	50	915.25	70	920.25	90	925.25
11	905.5	31	910.5	51	915.5	71	920.5	91	925.5
12	905.75	32	910.75	52	915.75	72	920.75	92	925.75
13	906	33	911	53	916	73	921	93	926
14	906.25	34	911.25	54	916.25	74	921.25	94	926.25
15	906.5	35	911.5	55	916.5	75	921.5	95	926.5
16	906.75	36	911.75	56	916.75	76	921.75	96	926.75
17	907	37	912	57	917	77	922	97	927
18	907.25	38	912.25	58	917.25	78	922.25	/	/
19	907.5	39	912.5	59	917.5	79	922.5	/	/
20	907.75	40	912.75	60	917.75	80	922.75	/	/

Were tested with channel 1, 49 and 97.

2.2 Equipment Modifications

No modification was made to the EUT.

2.3 EUT Exercise Software

The test software was used “TeraTerm-4.94.exe”

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

Test Channel		Low	Middle	High
Power Level Setting	Chain 1	23	23	23
	Chain 2	23	23	23

2.4 Support Equipment List and Details

Description	Manufacturer	Model Number	Serial Number
NB	DELL	E6410	8N7PXN1
POE	Tp-link	POE150S	224B623011475
Adapter	DEE VAN ENTERPRISE CO.,LTD.	DSA-12PFU-05 FUS 050200	N/A
Fixture	M2COMM	0C1-0001-02	N/A

2.5 External Cable List and Details

Description	Manufacturer	Model Number	Length(m)
RJ-45 Cable	YIH FONE	SS-0288	1.5

2.6 Test Mode

Pre-scan

Mode 1: model: DUO + Adapter

Mode 2: model: DUO + POE

Worst case is the Mode 2

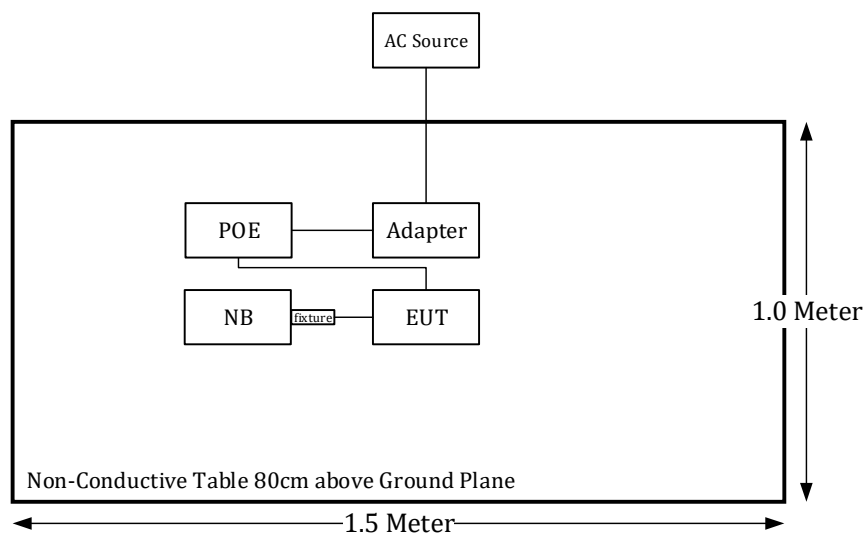
Full System (model: DUO + POE) for all test item.

2.7 Block Diagram of Test Setup

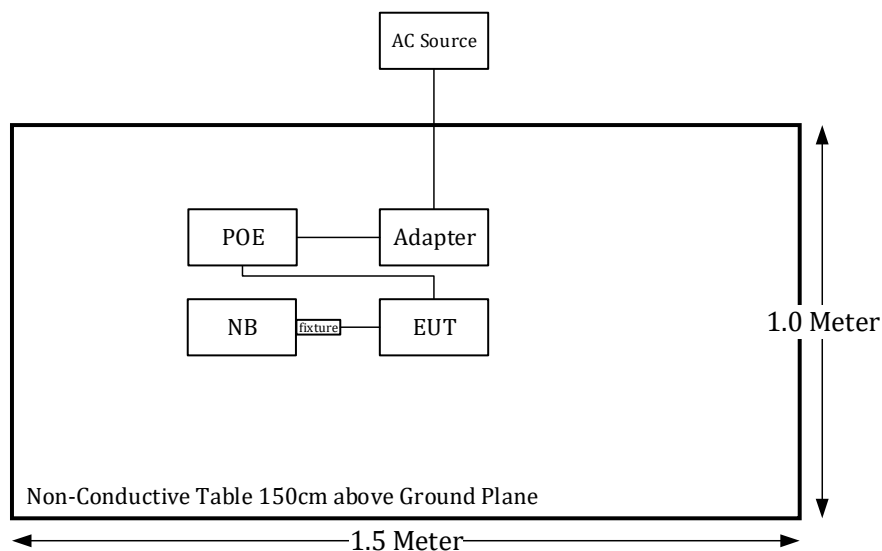
See test photographs attached in setup photos for the actual connections between EUT and support equipment.

Radiation:

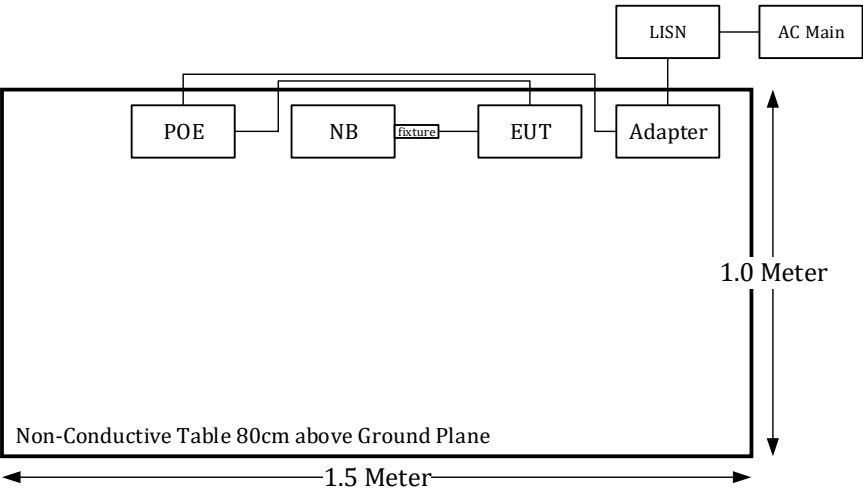
Below 1GHz:



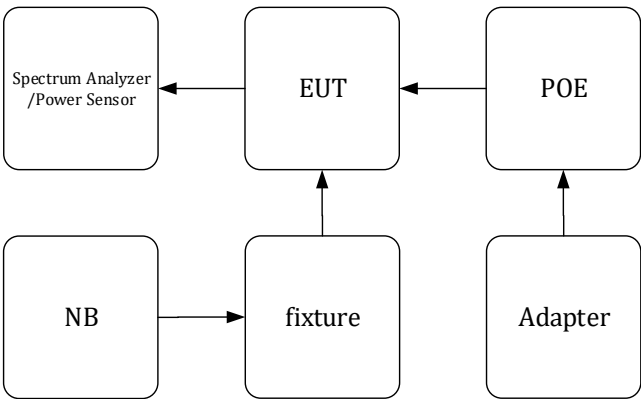
Above 1GHz:



Conduction:



Conducted:



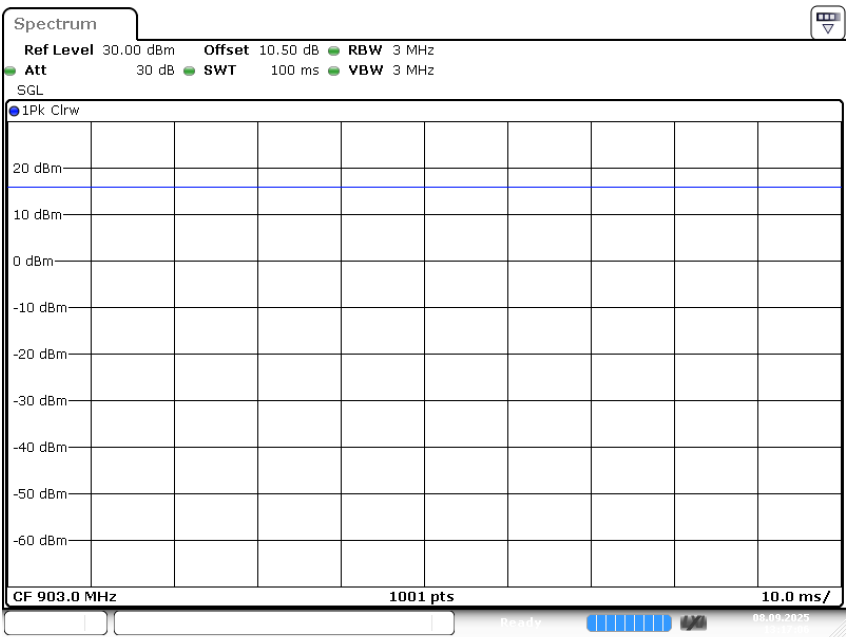
2.8 Duty Cycle

The duty cycle as below:

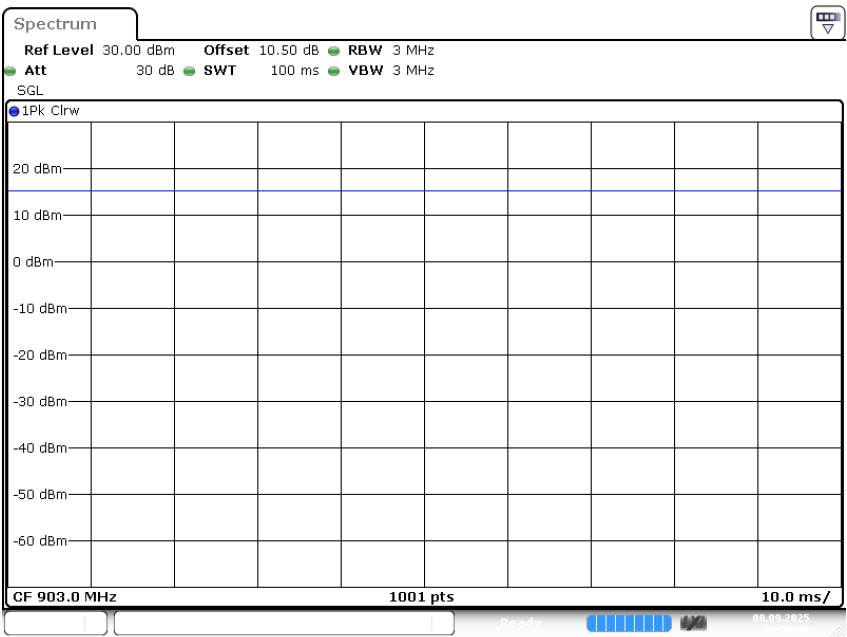
Radio Mode	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	1/T (kHz)	1/T VBW setting (kHz)
Chain 1	100	100	100	/	0.01
Chain 2	100	100	100	/	0.01

Please refer to the following plots.

Chain 1



Chain 2



3 Summary of Test Results

FCC Rules	Description of Test	Results
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247(a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Peak Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

4 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conduction Room (CON-A)					
LISN	Rohde & Schwarz	ENV216	101612	2025/2/17	2026/2/17
EMI Test Receiver	Rohde & Schwarz	ESR	102759	2024/9/19	2025/9/19
RF Cable	EMEC	EM-CB5D	1	2025/6/30	2026/6/30
Software	AUDIX	E3	V9.150826k	N.C.R	N.C.R
Radiation 3M Room - Below 1GHz (966-A)					
Active Loop Antenna	ETS-Lindgren	6502	35796	2025/3/27	2026/3/27
Bilog Antenna with 6 dB Attenuator	SUNOL SCIENCES & MINI-CIRCUITS	JB6/UNAT-6+	A050115/1554_2_01	2025/1/16	2026/1/16
Preamplifier	Sonoma	310N	130602	2025/6/17	2026/6/17
EMI Test Receiver	Rohde & Schwarz(R&S)	ESR3	102759	2024/9/19	2025/9/19
Microflex Cable	UTIFLEX	UFB197C-1-2362-70U-70U	225757-001	2024/12/20	2025/12/20
Coaxial Cable	UTIFLEX	UFB311A-Q-1440-300300	220490-006	2024/12/20	2025/12/20
Coaxial Cable	COMMATE	PEWC	8Dr	2024/12/20	2025/12/20
Cable	EMC	EMC105-SM-SM-10000	201003	2024/12/20	2025/12/20
Coaxial Cable	JUNFLON	J12J102248-00-B-5	AUG-07-15-044	2024/12/20	2025/12/20
Band-reject filter	MICRO-TRONICS	BRC50722	G014	2024/10/2	2025/10/2
Software	AUDIX	E3	18621a	N.C.R	N.C.R
Radiation 3M Room - Above 1GHz (966-A)					
Horn Antenna	ETS-Lindgren	3115	40736	2025/5/6	2026/5/6
Preamplifier	Channel	ERA-100M-18G-01D1748	EC2300051	2025/4/10	2026/4/10
Spectrum Analyzer	Rohde & Schwarz	FSV40	101939	2025/3/27	2026/3/27
Microflex Cable	UTIFLEX	UFB197C-1-2362-70U-70U	225757-001	2024/12/20	2025/12/20
Coaxial Cable	UTIFLEX	UFB311A-Q-1440-300300	220490-006	2024/12/20	2025/12/20
Coaxial Cable	COMMATE	PEWC	8Dr	2024/12/20	2025/12/20
Cable	EMC	EMC105-SM-SM-10000	201003	2024/12/20	2025/12/20
Coaxial Cable	JUNFLON	J12J102248-00-B-5	AUG-07-15-044	2024/12/20	2025/12/20
High-pass filter	XINGBOKEJI	XBLBQ-GTA54	200108-3-2	2024/10/19	2025/10/19
High-pass filter	XINGBOKEJI	XBLBQ-GTA11	200121-3-23	2024/10/19	2025/10/19
Software	AUDIX	E3	18621a	N.C.R	N.C.R
Conducted Room					
Spectrum Analyzer	Rohde & Schwarz(R&S)	FSV40	101204	2025/6/4	2026/6/4
Cable	UTIFLEX	UFA210A	9435	2024/10/1	2025/10/1
Power Sensor	Boonton	RTP5006	11037	2025/5/16	2026/5/16
Attenuator	MCL	BW-S10W5+	1419	2025/3/6	2026/3/6

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

5 FCC §15.203 – Antenna Requirements

5.1 Applicable Standard

According to § 15.203,

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna does not exceed 6dBi.

5.2 Antenna Information

Model	Type	Antenna Gain
RFA-S1-C21-M62-10886	Dipole Antenna	0.52 dBi

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

Result: Compliance

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

6.1 Applicable Standard

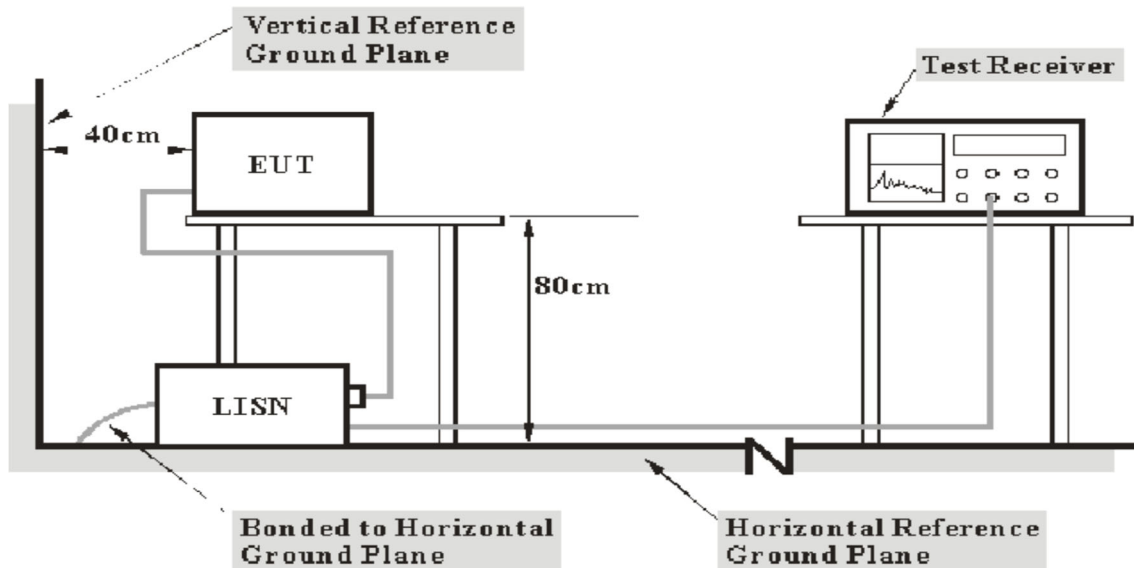
According to §15.207

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

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

Note 1: Decreases with the logarithm of the frequency.

6.2 EUT Setup



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

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

6.3 EMI Test Receiver Setup

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

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

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

6.4 Test Procedure

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

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

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

6.5 Corrected Factor & Margin Calculation

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

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

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

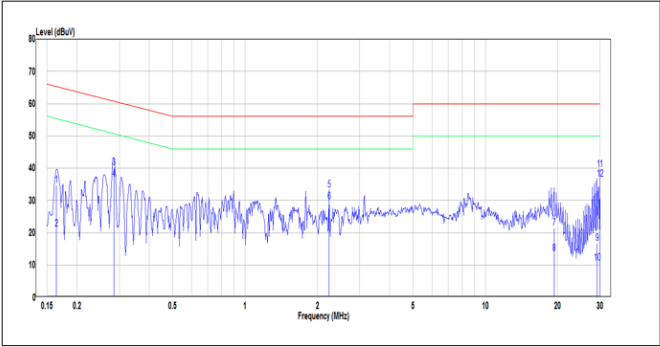
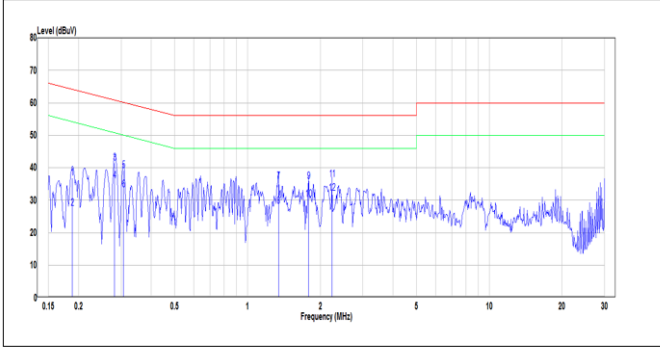
$$\text{Over Limit} = \text{Result} - \text{Limit Line}$$

6.6 Test Results

Test Mode: Transmitting

Main: AC120 V, 60 Hz

(Worst case is Chain 1, low Channel)

Line					Neutral				
Description: RBW:9kHz/VBW:30kHz					Description: RBW:9kHz/VBW:30kHz				
									
No.	Frequency	Reading	Correct Factor	Result	Limit	Over limit	Remark	Phase	
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.164	24.88	9.78	34.66	65.25	-30.59	QP	Line	
2	0.164	11.34	9.78	21.12	55.25	-34.13	Average	Line	
3	0.285	30.47	9.76	40.23	60.68	-20.45	QP	Line	
4	0.285	26.80	9.76	36.56	50.68	-14.12	Average	Line	
5	2.237	23.35	9.81	33.16	56.00	-22.84	QP	Line	
6	2.237	19.85	9.81	29.66	46.00	-16.34	Average	Line	
7	19.326	11.44	9.99	21.43	60.00	-38.57	QP	Line	
8	19.326	3.51	9.99	13.50	50.00	-36.50	Average	Line	
9	29.216	6.58	10.08	16.66	60.00	-43.34	QP	Line	
10	29.216	0.60	10.08	10.68	50.00	-39.32	Average	Line	
11	30.000	29.48	10.09	39.57	60.00	-20.43	QP	Line	
12	30.000	26.56	10.09	36.65	50.00	-13.35	Average	Line	

No.	Frequency	Reading	Correct Factor	Result	Limit	Over limit	Remark	Phase	
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.188	27.18	9.73	36.91	64.11	-27.20	QP	Neutral	
2	0.188	17.71	9.73	27.44	54.11	-26.67	Average	Neutral	
3	0.282	31.86	9.72	41.58	60.76	-19.18	QP	Neutral	
4	0.282	26.22	9.72	35.94	50.76	-14.82	Average	Neutral	
5	0.307	29.44	9.71	39.15	60.06	-20.91	QP	Neutral	
6	0.307	23.55	9.71	33.26	50.06	-16.80	Average	Neutral	
7	1.345	26.00	9.73	35.73	56.00	-20.27	QP	Neutral	
8	1.345	18.35	9.73	28.08	46.00	-17.92	Average	Neutral	
9	1.790	25.99	9.75	35.74	56.00	-20.26	QP	Neutral	
10	1.790	20.56	9.75	30.31	46.00	-15.69	Average	Neutral	
11	2.237	26.61	9.77	36.38	56.00	-19.62	QP	Neutral	
12	2.237	22.51	9.77	32.28	46.00	-13.72	Average	Neutral	

Note:

Result = Reading + Factor

Over Limit = Result – Limit Line

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

7 FCC §15.209, §15.205 , §15.247(d) – Spurious Emissions

7.1 Applicable Standard

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1MHz.

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

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		

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

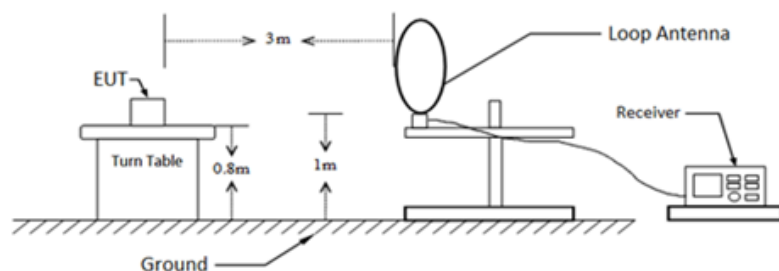
Frequency (MHz)	Field Strength (micro volts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

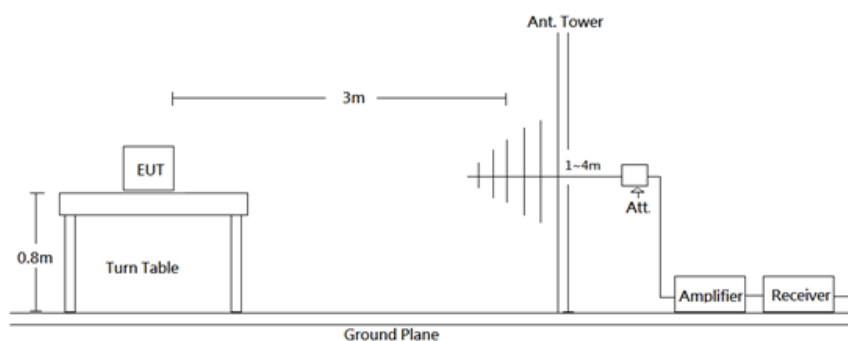
As per FCC §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.2 EUT Setup

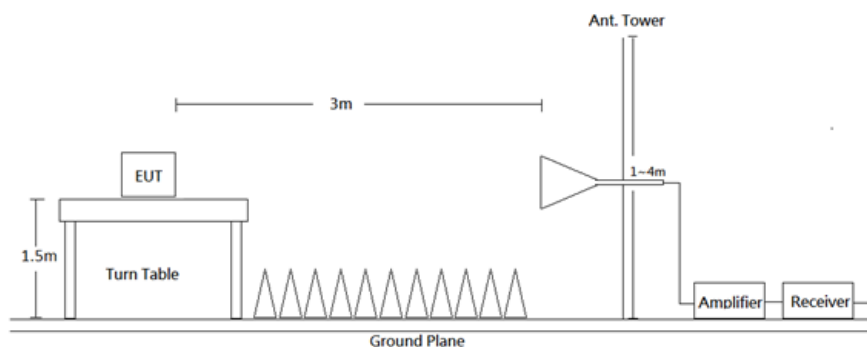
9kHz-30MHz:



30MHz-1GHz:



1-18 GHz:



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

7.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 18 GHz. During the radiated emission test, the EMI test receiver was set with the following configurations measurement method 6.3 in ANSI C63.10.

Frequency Range	RBW	Video B/W	IF B/W	Duty cycle	Measurement method	Detector
9 kHz - 150 kHz	300 Hz	1 kHz	200 Hz	/	QP/AV	QP/AV
150 kHz - 30 MHz	10 kHz	30 kHz	9 kHz	/	QP/AV	QP/AV
30-1000 MHz	100 kHz	300 kHz	/	/	PK	PK
	/	/	120 kHz	/	QP	QP
Above 1 GHz	Pre-scan :					
	1 MHz	3 MHz	/	/	PK	PK
	1 MHz	1 kHz	/	>98%	Ave	PK
	1 MHz	$\geq 1/\text{Ton}$, not less than 1 kHz	/	<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	$\geq 1/\text{Ton}$	/	<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.

For Conducted Spurious Emissions:

According to ANSI C63.10-2020, section 11.11

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

7.5 Corrected Factor & Margin Calculation

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

Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain

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

Margin = Level – Limit

7.6 Test Results

Test Mode: Transmitting

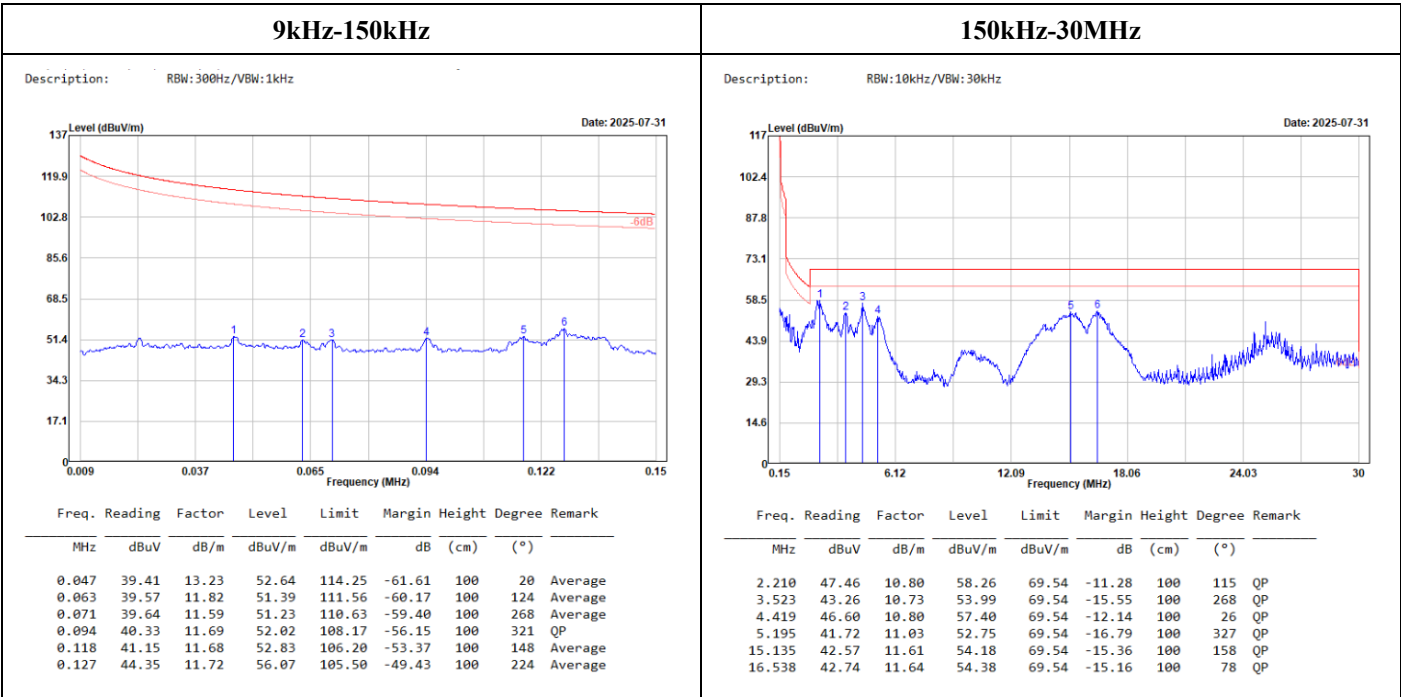
(Pre-scan with three orthogonal axis, and worse case as Z axis.)

Chain 1

9kHz-30MHz:

(worst case is low channel)

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



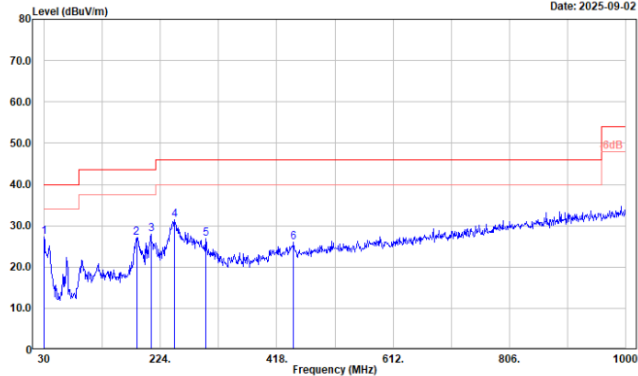
30MHz-1GHz:

Low channel

Horizontal

Description: TX-903M, RBW:100kHz/VBW:300kHz

Date: 2025-09-02

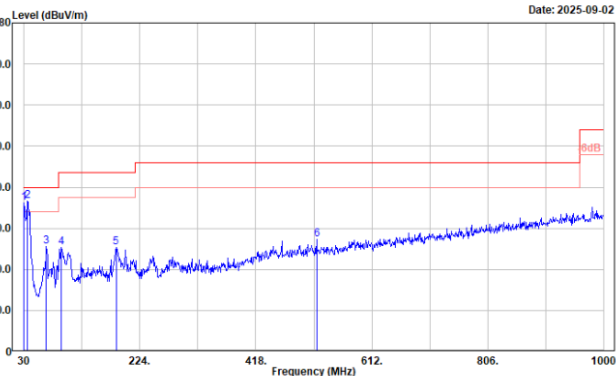


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	31.60	-4.32	27.28	40.00	-12.72	100	72	QP
184.230	40.46	-13.28	27.18	43.50	-16.32	100	7	QP
208.480	41.35	-13.38	27.97	43.50	-15.53	100	19	QP
247.280	43.66	-12.18	31.48	46.00	-14.52	100	142	QP
299.660	36.67	-9.81	26.86	46.00	-19.14	100	104	QP
446.130	31.62	-5.65	25.97	46.00	-20.03	100	180	QP

Vertical

Description: TX-903M, RBW:100kHz/VBW:300kHz

Date: 2025-09-02



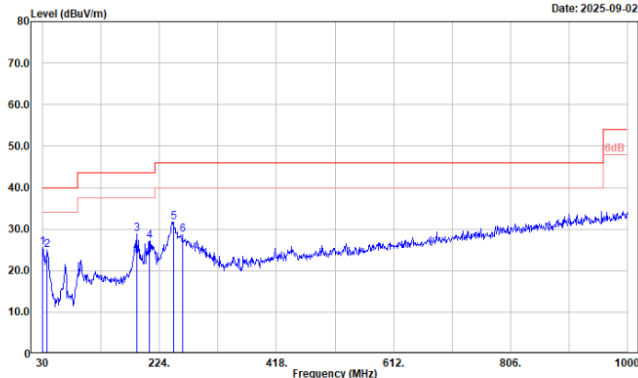
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	40.47	-4.32	36.15	40.00	-3.85	100	48	QP
35.820	45.24	-8.53	36.71	40.00	-3.29	100	332	QP
67.830	42.50	-16.93	25.57	40.00	-14.43	100	111	QP
92.080	42.25	-16.78	25.47	43.50	-18.03	100	245	QP
184.230	38.71	-13.28	25.43	43.50	-18.07	100	86	QP
519.850	31.64	-4.34	27.30	46.00	-18.70	100	119	QP

Middle channel

Horizontal

Description: TX-915M, RBW:100kHz/VBW:300kHz

Date: 2025-09-02

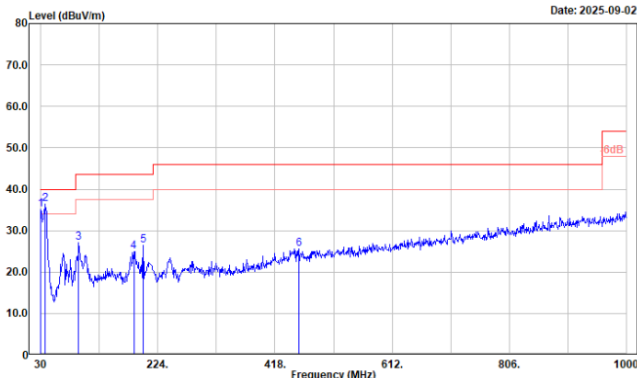


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	29.90	-4.32	25.58	40.00	-14.42	100	230	QP
37.760	34.60	-9.71	24.89	40.00	-15.11	100	19	QP
186.170	42.12	-13.24	28.88	43.50	-14.62	100	212	QP
207.510	40.35	-13.24	27.11	43.50	-16.39	100	35	QP
247.280	43.85	-12.18	31.67	46.00	-14.33	100	116	QP
261.830	39.85	-11.34	28.51	46.00	-17.49	100	166	QP

Vertical

Description: TX-915M, RBW:100kHz/VBW:300kHz

Date: 2025-09-02



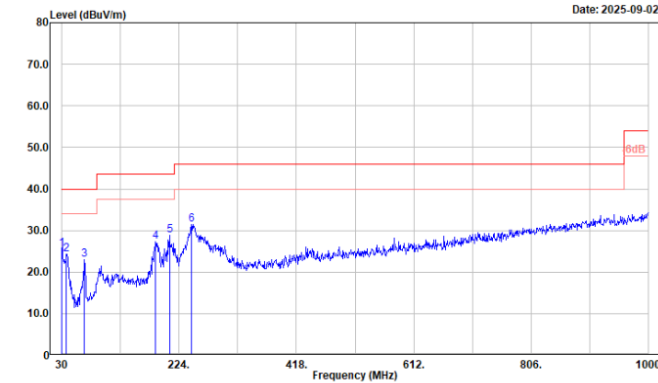
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	39.55	-4.32	35.23	40.00	-4.77	100	239	QP
37.760	46.21	-9.71	36.50	40.00	-3.50	100	231	QP
93.050	43.48	-16.48	27.00	43.50	-16.50	100	216	QP
184.230	38.27	-13.28	24.99	43.50	-18.51	100	84	QP
199.750	37.56	-11.16	26.40	43.50	-17.10	100	80	QP
457.770	31.32	-5.68	25.64	46.00	-20.36	100	358	QP

High channel

Horizontal

Description: TX-927M, RBW:100kHz/VBW:300kHz

Date: 2025-09-02

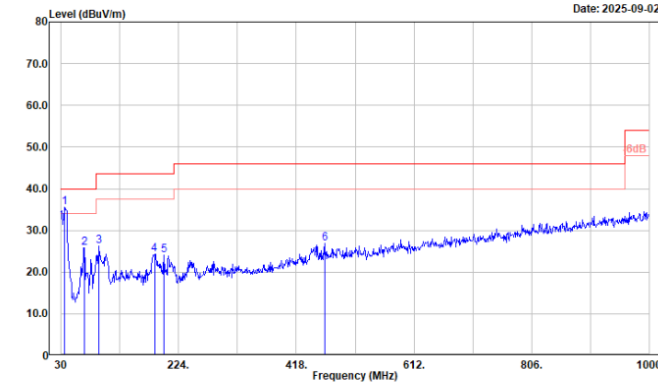


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	29.84	-4.32	25.52	40.00	-14.48	100	165	QP
37.760	33.97	-9.71	24.26	40.00	-15.74	100	137	QP
67.830	39.90	-16.93	22.97	40.00	-17.03	100	48	QP
185.200	40.63	-13.27	27.36	43.50	-16.14	100	17	QP
208.480	42.17	-13.38	28.79	43.50	-14.71	100	21	QP
244.370	43.54	-12.15	31.39	46.00	-14.61	100	133	QP

Vertical

Description: TX-927M, RBW:100kHz/VBW:300kHz

Date: 2025-09-02



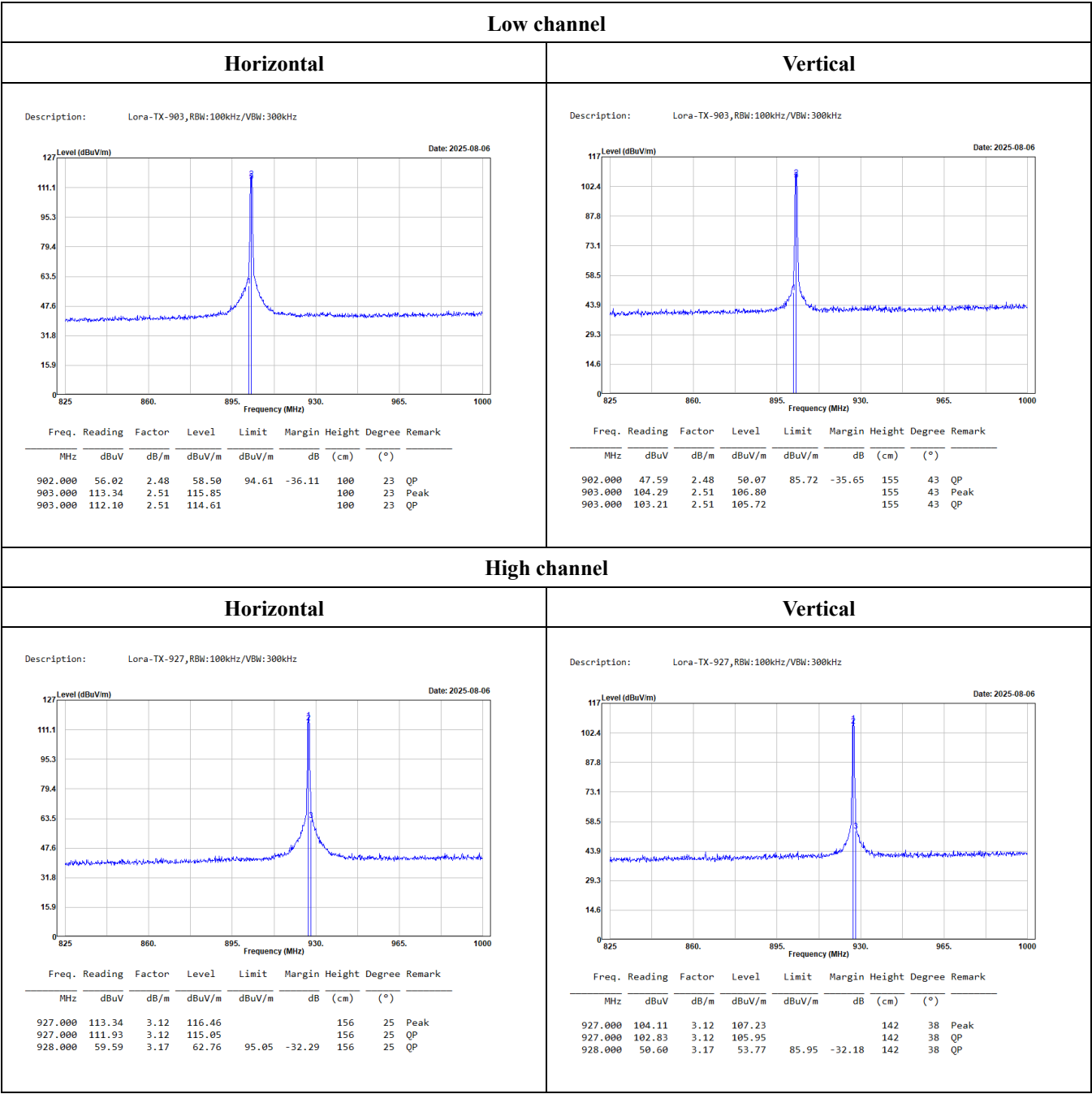
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
35.820	44.02	-8.53	35.49	40.00	-4.51	100	357	QP
68.800	43.02	-17.13	25.89	40.00	-14.11	100	328	QP
93.050	42.82	-16.48	26.34	43.50	-17.16	100	218	QP
184.230	37.64	-13.28	24.36	43.50	-19.14	100	70	QP
199.750	35.29	-11.16	24.13	43.50	-19.37	100	94	QP
464.560	32.35	-5.54	26.81	46.00	-19.19	100	286	QP

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Band-Edge:



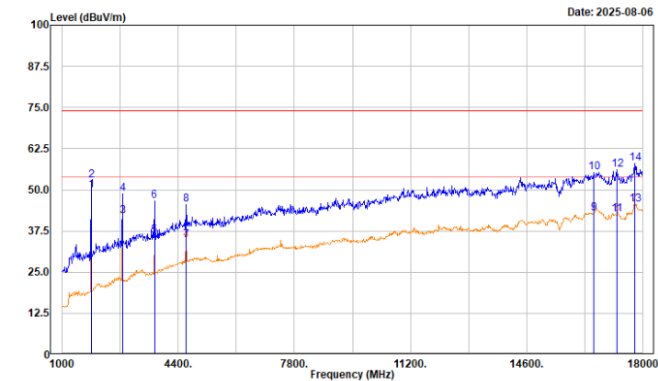
Level = Reading + Factor.
Margin = Level – Limit.
Factor = Antenna Factor + Cable Loss – Amplifier Gain.

1GHz-18GHz:

(worst case is high channel)

Horizontal

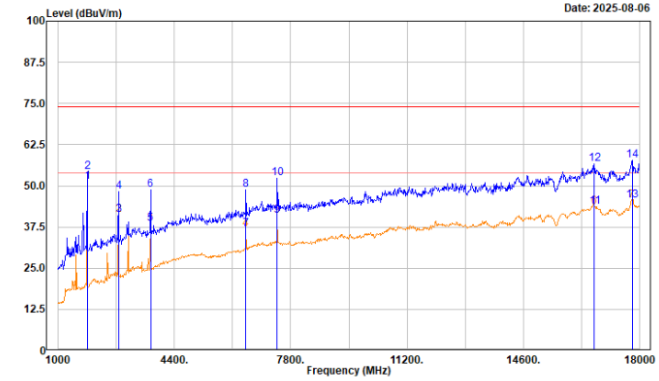
Description: Lora-TX-927,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1854.000	63.24	-13.36	49.88	54.00	-4.12	157	273	Average
1854.000	66.23	-13.36	52.87	74.00	-21.13	157	273	Peak
2781.000	51.48	-9.35	42.13	54.00	-11.87	180	222	Average
2781.000	58.11	-9.35	48.76	74.00	-25.24	180	222	Peak
3703.000	43.78	-7.69	36.09	54.00	-17.91	150	106	Average
3703.000	54.28	-7.69	46.59	74.00	-27.41	150	106	Peak
4638.000	38.25	-3.62	34.63	54.00	-19.37	150	56	Average
4638.000	49.24	-3.62	45.62	74.00	-28.38	150	56	Peak
16555.000	30.30	12.51	42.81	54.00	-11.19	150	123	Average
16555.000	42.82	12.51	55.33	74.00	-18.67	150	123	Peak
17235.000	29.60	12.94	42.54	54.00	-11.46	150	335	Average
17235.000	43.03	12.94	55.97	74.00	-18.03	150	335	Peak
17762.000	32.36	13.17	45.53	54.00	-8.47	150	87	Average
17762.000	44.73	13.17	57.90	74.00	-16.10	150	87	Peak

Vertical

Description: Lora-TX-927,Peak RBW:1MHz/VBW:3MHz,Avg RBW:1MHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1854.000	64.63	-13.36	51.27	54.00	-2.73	100	188	Average
1854.000	67.44	-13.36	54.08	74.00	-19.92	100	188	Peak
2781.000	50.64	-9.35	41.29	54.00	-12.71	145	207	Average
2781.000	57.48	-9.35	48.13	74.00	-25.87	145	207	Peak
3703.000	46.29	-7.69	38.60	54.00	-15.40	150	128	Average
3703.000	56.54	-7.69	48.85	74.00	-25.15	150	128	Peak
6491.000	38.07	-1.30	36.77	54.00	-17.23	150	338	Average
6491.000	50.12	-1.30	48.82	74.00	-25.18	150	338	Peak
7409.000	39.16	1.70	40.86	54.00	-13.14	150	214	Average
7409.000	50.73	1.70	52.43	74.00	-21.57	150	214	Peak
16674.000	31.11	12.58	43.69	54.00	-10.31	150	169	Average
16674.000	43.95	12.58	56.53	74.00	-17.47	150	169	Peak
17779.000	32.16	13.28	45.44	54.00	-8.56	150	29	Average
17779.000	44.42	13.28	57.70	74.00	-16.30	150	29	Peak

Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Above 1GHz

Low channel																			
Horizontal									Vertical										
Freq.		Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.		Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1806.000	63.96	-13.74		50.22	54.00	-3.78	149	312	Average	1806.000	63.05	-13.74		49.31	54.00	-4.69	137	189	Average
1806.000	66.87	-13.74		53.13	74.00	-20.87	149	312	Peak	1806.000	66.09	-13.74		52.35	74.00	-21.65	137	189	Peak
2709.000	49.25	-9.03		40.22	54.00	-13.78	168	257	Average	2709.000	47.78	-9.03		38.75	54.00	-15.25	168	334	Average
2709.000	55.08	-9.03		46.05	74.00	-27.95	168	257	Peak	2709.000	55.18	-9.03		46.15	74.00	-27.85	168	334	Peak
3601.000	43.65	-7.79		35.86	54.00	-18.14	150	66	Average	3601.000	43.70	-7.79		35.91	54.00	-18.09	150	47	Average
3601.000	53.14	-7.79		45.35	74.00	-28.65	150	66	Peak	3601.000	52.56	-7.79		44.77	74.00	-29.23	150	47	Peak
4519.000	38.67	-4.12		34.55	54.00	-19.45	150	104	Average	6321.000	38.55	-1.90		36.65	54.00	-17.35	150	216	Average
4519.000	50.23	-4.12		46.11	74.00	-27.89	150	104	Peak	6321.000	48.98	-1.90		47.08	74.00	-26.92	150	216	Peak
15688.000	32.69	9.00		41.69	54.00	-12.31	150	208	Average	7222.000	38.12	1.45		39.57	54.00	-14.43	150	149	Average
15688.000	45.35	9.00		54.35	74.00	-19.65	150	208	Peak	7222.000	48.14	1.45		49.59	74.00	-24.41	150	149	Peak
15977.000	31.71	10.06		41.77	54.00	-12.23	150	348	Average	9568.000	29.55	4.83		34.38	54.00	-19.62	150	23	Average
15977.000	44.82	10.06		54.88	74.00	-19.12	150	348	Peak	9568.000	45.13	4.83		49.96	74.00	-24.04	150	23	Peak
16674.000	31.40	12.58		43.98	54.00	-10.02	150	74	Average	16691.000	31.15	12.59		43.74	54.00	-10.26	150	304	Average
16674.000	43.49	12.58		56.07	74.00	-17.93	150	74	Peak	16691.000	43.02	12.59		55.61	74.00	-18.39	150	304	Peak
17201.000	29.60	12.90		42.50	54.00	-11.50	150	16	Average	17745.000	32.37	13.08		45.45	54.00	-8.55	150	259	Average
17201.000	42.02	12.90		54.92	74.00	-19.08	150	16	Peak	17745.000	45.43	13.08		58.51	74.00	-15.49	150	259	Peak
17779.000	32.56	13.28		45.84	54.00	-8.16	150	89	Average										
17779.000	43.93	13.28		57.21	74.00	-16.79	150	89	Peak										

Middle channel																			
Horizontal									Vertical										
Freq.		Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.		Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1830.000	63.06	-13.42		49.64	54.00	-4.36	181	316	Average	1830.000	61.36	-13.42		47.94	54.00	-6.06	158	186	Average
1830.000	65.97	-13.42		52.55	74.00	-21.45	181	316	Peak	1830.000	64.38	-13.42		50.96	74.00	-23.04	158	186	Peak
2745.000	43.98	-9.33		34.65	54.00	-19.35	172	222	Average	2745.000	46.98	-9.33		37.65	54.00	-16.35	180	100	Average
2745.000	53.22	-9.33		43.89	74.00	-30.11	172	222	Peak	2745.000	53.84	-9.33		44.51	74.00	-29.49	180	100	Peak
3057.000	44.58	-8.15		36.43	54.00	-17.57	150	109	Average	3652.000	44.78	-7.65		37.13	54.00	-16.87	150	29	Average
3057.000	47.51	-8.15		39.36	74.00	-34.64	150	109	Peak	3652.000	55.12	-7.65		47.47	74.00	-26.53	150	29	Peak
3652.000	42.75	-7.65		35.10	54.00	-18.90	150	58	Average	4570.000	44.24	-3.98		40.26	54.00	-13.74	150	147	Average
3652.000	51.42	-7.65		43.77	74.00	-30.23	150	58	Peak	4570.000	54.95	-3.98		50.97	74.00	-23.03	150	147	Peak
4570.000	37.59	-3.98		33.61	54.00	-20.39	150	159	Average	7324.000	37.62	1.81		39.43	54.00	-14.57	150	269	Average
4570.000	47.14	-3.98		43.16	74.00	-30.84	150	159	Peak	7324.000	47.90	1.81		49.71	74.00	-24.29	150	269	Peak
13444.000	28.69	9.96		38.65	54.00	-15.35	150	247	Average	15756.000	32.15	9.49		41.64	54.00	-12.36	150	326	Average
13444.000	42.07	9.96		52.03	74.00	-21.97	150	247	Peak	15756.000	44.34	9.49		53.83	74.00	-20.17	150	326	Peak
15994.000	31.32	10.15		41.47	54.00	-12.53	150	328	Average	16640.000	31.68	12.55		44.23	54.00	-9.77	150	55	Average
15994.000	44.62	10.15		54.77	74.00	-19.23	150	328	Peak	16640.000	43.74	12.55		56.29	74.00	-17.71	150	55	Peak
16640.000	31.41	12.55		43.96	54.00	-10.04	150	77	Average	17286.000	29.93	12.91		42.84	54.00	-11.16	150	168	Average
16640.000	43.30	12.55		55.85	74.00	-18.15	150	77	Peak	17286.000	42.22	12.91		55.13	74.00	-18.87	150	168	Peak
17762.000	32.42	13.17		45.59	54.00	-8.41	150	20	Average	17762.000	32.73	13.17		45.90	54.00	-8.10	150	67	Average
17762.000	44.21	13.17		57.38	74.00	-16.62	150	20	Peak	17762.000	43.82	13.17		56.99	74.00	-17.01	150	67	Peak

High channel																			
Horizontal									Vertical										
Freq.		Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.		Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz		dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1854.000	63.24	-13.36		49.88	54.00	-4.12	157	273	Average	1854.000	64.63	-13.36		51.27	54.00	-2.73	100	188	Average
1854.000	66.23	-13.36		52.87	74.00	-21.13	157	273	Peak	1854.000	67.44	-13.36		54.08	74.00	-19.92	100	188	Peak
2781.000	51.48	-9.35		42.13	54.00	-11.87	180	222	Average	2781.000	50.64	-9.35		41.29	54.00	-12.71	145	207	Average
2781.000	58.11	-9.35		48.76	74.00	-25.24	180	222	Peak	2781.000	57.48	-9.35		48.13	74.00	-25.87	145	207	Peak
3703.000	43.78	-7.69		36.09	54.00	-17.91	150	106	Average	3703.000	46.29	-7.69		38.60	54.00	-15.40	150	128	Average
3703.000	54.28	-7.69		46.59	74.00	-27.41	150	106	Peak	3703.000	56.54	-7.69		48.85	74.00	-25.15	150	128	Peak
4638.000	38.25	-3.62		34.63	54.00	-19.37	150	56	Average	6491.000	38.07	-1.30		36.77	54.00	-17.23	150	338	Average
4638.000	49.24	-3.62		45.62	74.00	-28.38	150	56	Peak	6491.000	50.12	-1.30		48.82	74.00	-25.18	150	338	Peak
16555.000	30.30	12.51		42.81	54.00	-11.19	150	123	Average	7409.000	39.16	1.70		40.86	54.00	-13.14	150	214	Average
16555.000	42.82	12.51		55.33	74.00	-18.67	150	123	Peak	7409.000	50.73	1.70		52.43	74.00	-21.57	150	214	Peak
17235.000	29.60	12.94		42.54	54.00	-11.46	150	335	Average	16674.000	31.11	12.58		43.69	54.00	-10.31	150	169	Average
17235.000	43.03	12.94		55.97	74.00	-18.03	150	335	Peak	16674.000	43.95	12.58		56.53	74.00	-17.47	150	169	Peak
17762.000	32.36	13.17		45.53	54.00	-8.47	150	87	Average	17779.000	32.16	13.28		45.44	54.00	-8.56	150	29	Average
17762.000	44.73	13.17		57.90	74.00	-16.10	150	87	Peak	17779.000	44.42	13.28		57.70	74.00	-16.30	150	29	Peak

Level = Reading + Factor.
Margin = Level – Limit.
Factor = Antenna Factor + Cable Loss – Amplifier Gain.

Chain 2

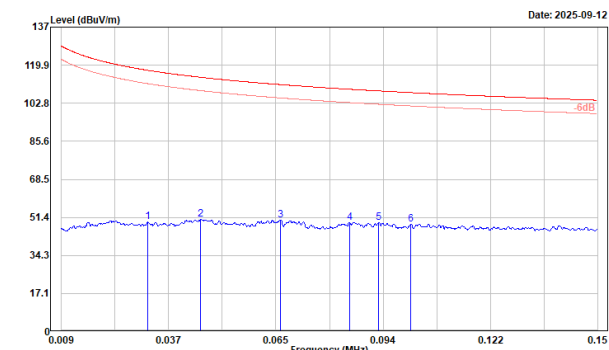
9kHz-30MHz:

(worst case is low channel)

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

9kHz-150kHz

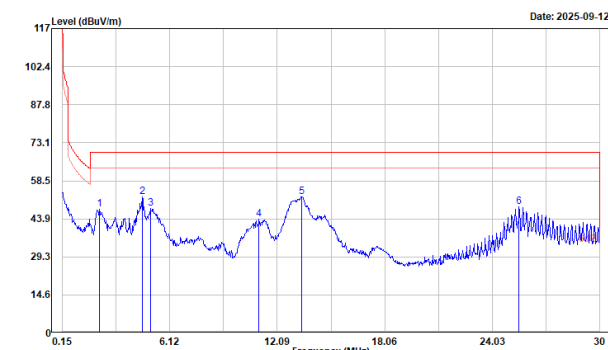
Description: RBW:300kHz/VBW:1kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
0.032	35.84	13.38	49.22	117.58	-68.36	100	200	Average
0.046	37.33	13.16	50.49	114.41	-63.92	100	121	Average
0.067	38.55	11.72	50.27	111.13	-60.86	100	43	Average
0.085	37.70	11.41	49.11	109.04	-59.93	100	304	Average
0.092	37.33	11.71	49.04	108.28	-59.24	100	179	QP
0.101	36.68	11.63	48.31	107.52	-59.21	100	1	QP

150kHz-30MHz

Description: RBW:10kHz/VBW:30kHz

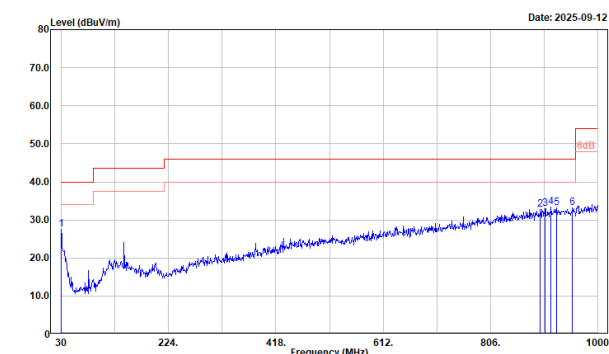


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
2.210	36.91	10.80	47.71	69.54	-21.83	100	158	QP
4.598	41.52	10.81	52.33	69.54	-17.21	100	235	QP
5.045	36.93	10.87	47.80	69.54	-21.74	100	64	QP
11.075	32.33	11.52	43.85	69.54	-25.69	100	101	QP
13.463	40.70	11.57	52.27	69.54	-17.27	100	317	QP
25.523	36.70	11.84	48.54	69.54	-21.00	100	299	QP

30MHz-1GHz:

Low channel**Horizontal**

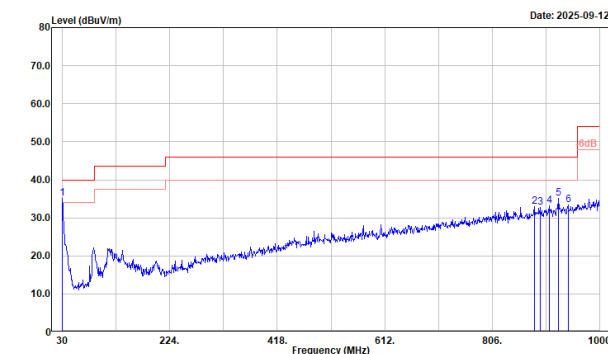
Description: TX-903M, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	31.95	-4.32	27.63	40.00	-12.37	100	189	QP
896.210	30.33	2.45	32.78	46.00	-13.22	100	174	QP
904.940	30.40	2.55	32.95	46.00	-13.05	100	70	QP
915.610	30.62	2.75	33.37	46.00	-12.63	100	212	QP
925.310	30.21	3.04	33.25	46.00	-12.75	100	314	QP
954.410	29.71	3.36	33.07	46.00	-12.93	100	208	QP

Vertical

Description: TX-903M, RBW:100kHz/VBW:300kHz

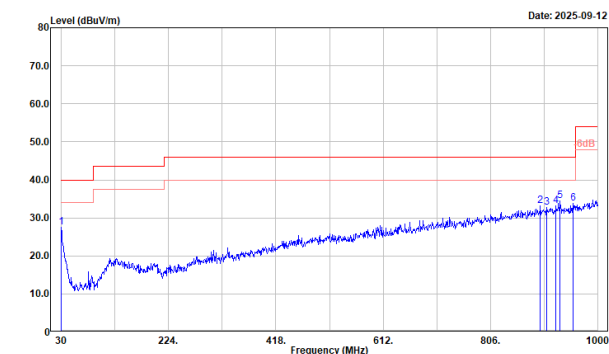


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	39.43	-4.32	35.11	40.00	-4.89	100	316	QP
881.660	30.82	2.07	32.89	46.00	-13.11	100	354	QP
892.330	30.41	2.40	32.81	46.00	-13.19	100	336	QP
908.820	30.58	2.58	33.16	46.00	-12.84	100	174	QP
925.310	32.06	3.04	35.10	46.00	-10.90	100	16	QP
942.770	30.07	3.23	33.30	46.00	-12.70	100	171	QP

Middle channel

Horizontal

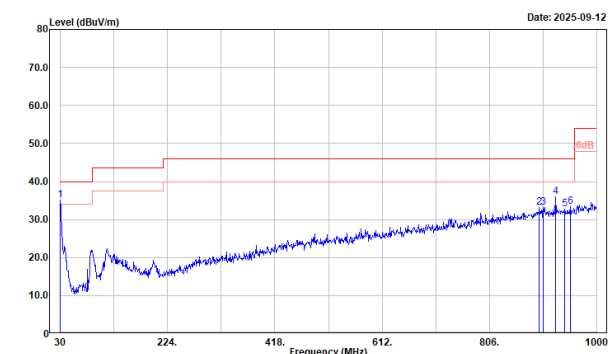
Description: TX-915M, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	31.82	-4.32	27.50	40.00	-12.50	100	0	QP
896.210	30.68	2.45	33.13	46.00	-12.87	100	293	QP
907.850	30.18	2.58	32.76	46.00	-13.24	100	278	QP
924.340	30.19	3.00	33.19	46.00	-12.81	100	231	QP
932.100	31.24	3.31	34.55	46.00	-11.45	100	101	QP
955.380	30.48	3.38	33.86	46.00	-12.14	100	22	QP

Vertical

Description: TX-915M, RBW:100kHz/VBW:300kHz

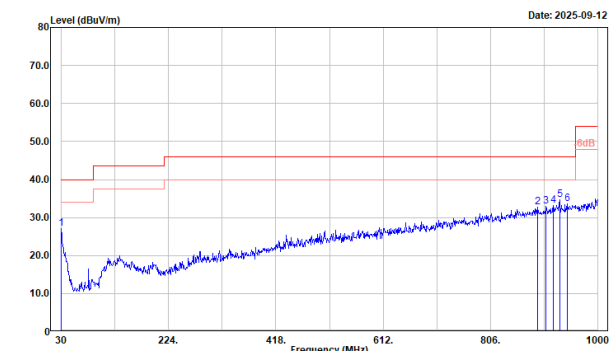


Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	39.40	-4.32	35.08	40.00	-4.92	100	340	QP
896.210	30.75	2.45	33.20	46.00	-12.80	100	25	QP
903.000	30.66	2.51	33.17	46.00	-12.83	100	268	QP
925.310	32.90	3.04	35.94	46.00	-10.06	100	279	QP
941.800	29.52	3.22	32.74	46.00	-13.26	100	78	QP
952.470	30.19	3.28	33.47	46.00	-12.53	100	71	QP

High channel

Horizontal

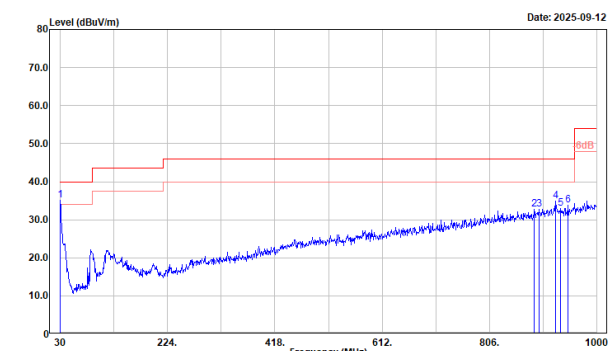
Description: TX-927M, RBW:100kHz/VBW:300kHz



Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	31.38	-4.32	27.06	40.00	-12.94	100	238	QP
891.360	30.26	2.39	32.65	46.00	-13.35	100	360	QP
906.880	30.33	2.57	32.90	46.00	-13.10	100	356	QP
919.490	30.23	2.87	33.10	46.00	-12.90	100	196	QP
931.130	31.48	3.28	34.76	46.00	-11.24	100	352	QP
944.710	30.33	3.24	33.57	46.00	-12.43	100	134	QP

Vertical

Description: TX-927M, RBW:100kHz/VBW:300kHz



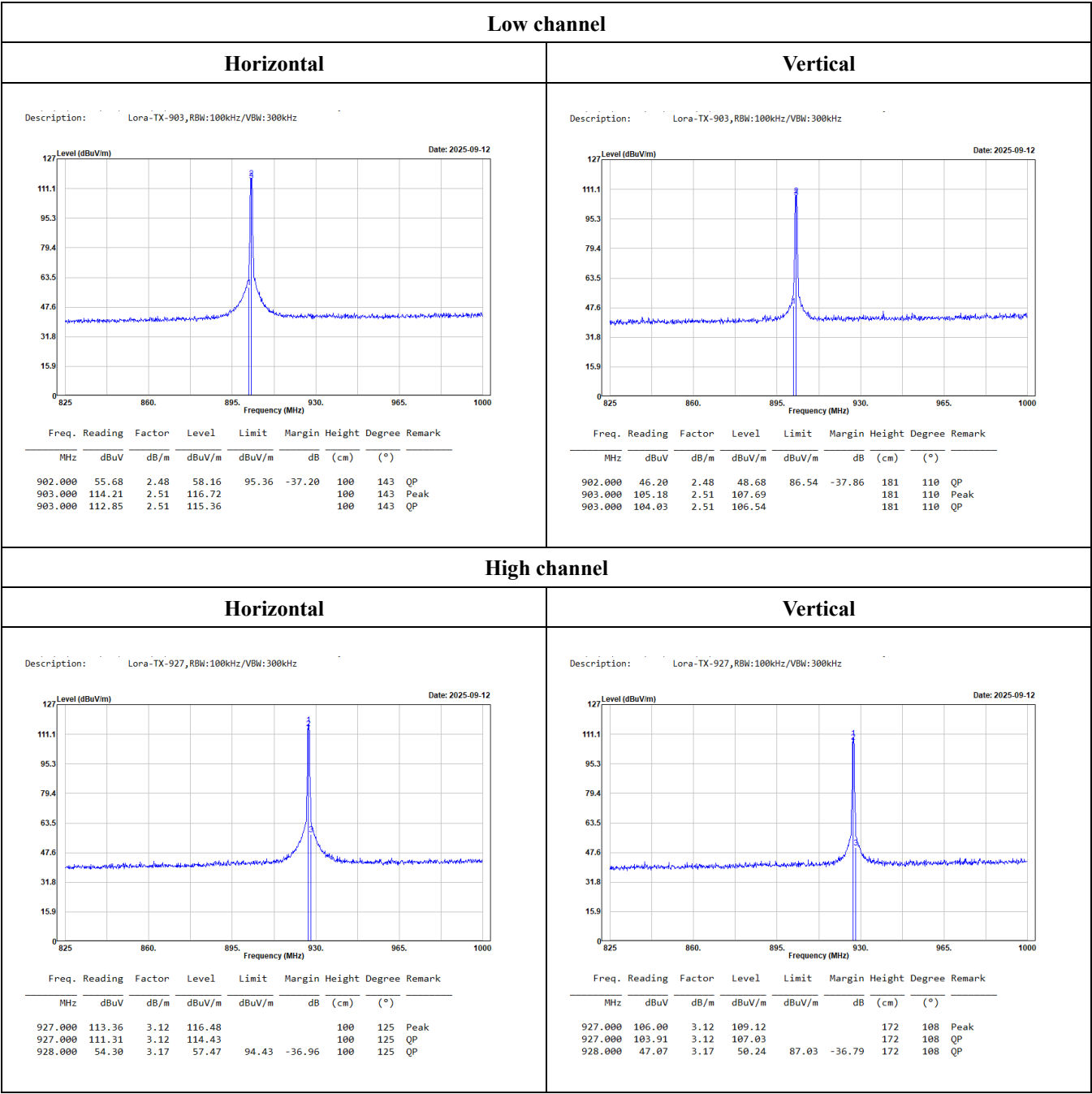
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
30.000	39.47	-4.32	35.15	40.00	-4.85	100	336	QP
887.480	30.44	2.28	32.72	46.00	-13.28	100	317	QP
895.240	30.37	2.45	32.82	46.00	-13.18	100	138	QP
925.310	31.95	3.04	34.99	46.00	-11.01	100	328	QP
935.010	29.64	3.39	33.03	46.00	-12.97	100	218	QP
948.590	30.65	3.21	33.86	46.00	-12.14	100	64	QP

Level = Reading + Factor.

Margin = Level - Limit.

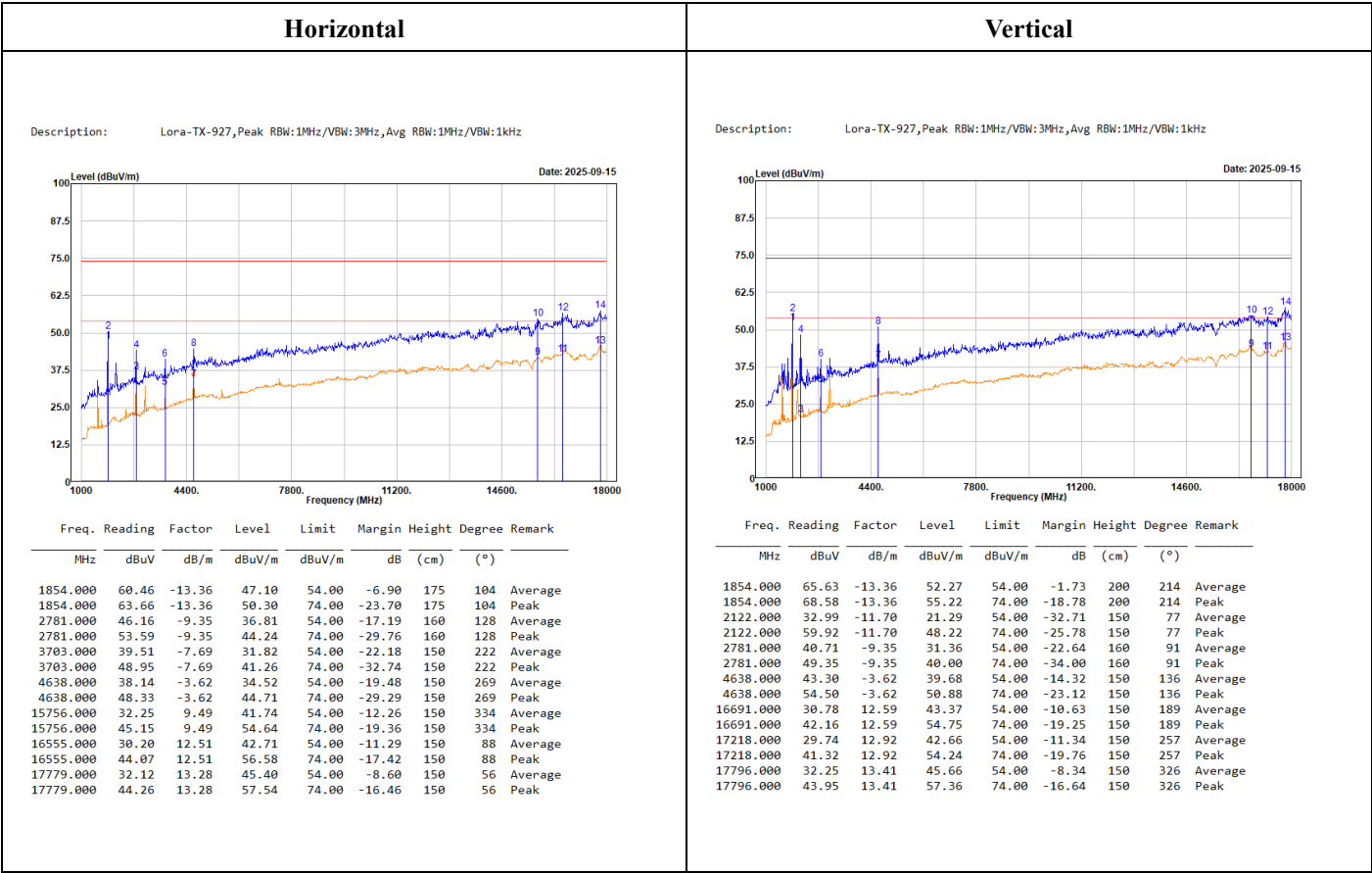
Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Band-Edge:



Level = Reading + Factor.
Margin = Level – Limit.
Factor = Antenna Factor + Cable Loss – Amplifier Gain.

1GHz-18GHz:
(worst case is high channel)



Level = Reading + Factor.
Margin = Level – Limit.
Factor = Antenna Factor + Cable Loss – Amplifier Gain.

Above 1GHz

Low channel																	
Horizontal									Vertical								
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1806.000	57.84	-13.74	44.10	54.00	-9.90	145	101	Average	1806.000	65.31	-13.74	51.57	54.00	-2.43	177	211	Average
1806.000	60.94	-13.74	47.20	74.00	-26.80	145	101	Peak	1806.000	68.38	-13.74	54.64	74.00	-19.36	177	211	Peak
2709.000	47.48	-9.03	38.45	54.00	-15.55	166	88	Average	2709.000	46.91	-9.03	37.88	54.00	-16.12	155	145	Average
2709.000	43.99	-9.03	34.96	74.00	-39.04	166	88	Peak	2709.000	54.09	-9.03	45.06	74.00	-28.94	155	145	Peak
3601.000	37.51	-7.79	29.72	54.00	-24.28	150	169	Average	3074.000	41.74	-8.06	33.68	54.00	-20.32	150	29	Average
3601.000	46.78	-7.79	38.99	74.00	-35.01	150	169	Peak	3074.000	47.35	-8.06	39.29	74.00	-34.71	150	29	Peak
4519.000	39.31	-4.12	35.19	54.00	-18.81	150	237	Average	4502.000	42.82	-4.15	38.67	54.00	-15.33	150	87	Average
4519.000	49.35	-4.12	45.23	74.00	-28.77	150	237	Peak	4502.000	54.13	-4.15	49.98	74.00	-24.02	150	87	Peak
16657.000	31.39	12.56	43.95	54.00	-10.05	150	134	Average	16300.000	31.06	11.23	42.29	54.00	-11.71	150	137	Average
16657.000	43.69	12.56	56.25	74.00	-17.75	150	134	Peak	16300.000	43.37	11.23	54.60	74.00	-19.40	150	137	Peak
17167.000	29.45	12.86	42.31	54.00	-11.69	150	325	Average	16674.000	30.99	12.58	43.57	54.00	-10.43	150	236	Average
17167.000	42.22	12.86	55.08	74.00	-18.92	150	325	Peak	16674.000	43.98	12.58	56.56	74.00	-17.44	150	236	Peak
17745.000	32.25	13.08	45.33	54.00	-8.67	150	288	Average	17201.000	29.23	12.90	42.13	54.00	-11.87	150	341	Average
17745.000	44.77	13.08	57.85	74.00	-16.15	150	288	Peak	17201.000	41.99	12.90	54.89	74.00	-19.11	150	341	Peak
									17711.000	30.26	12.98	43.24	54.00	-10.76	150	188	Average
									17711.000	44.29	12.98	57.27	74.00	-16.73	150	188	Peak

Middle channel																	
Horizontal									Vertical								
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1830.000	59.18	-13.42	45.76	54.00	-8.24	179	181	Average	1830.000	64.95	-13.42	51.53	54.00	-2.47	220	213	Average
1830.000	62.50	-13.42	49.08	74.00	-24.92	179	181	Peak	1830.000	67.73	-13.42	54.31	74.00	-19.69	220	213	Peak
2745.000	43.74	-9.33	34.41	54.00	-19.59	165	151	Average	2745.000	43.57	-9.33	34.24	54.00	-19.76	160	201	Average
2745.000	53.41	-9.33	44.08	74.00	-29.92	165	151	Peak	2745.000	50.73	-9.33	41.40	74.00	-32.60	160	201	Peak
4570.000	39.97	-3.98	35.99	54.00	-18.01	150	37	Average	3074.000	44.43	-8.06	36.37	54.00	-17.63	150	96	Average
4570.000	50.41	-3.98	46.43	74.00	-27.57	150	37	Peak	3074.000	48.59	-8.06	40.53	74.00	-33.47	150	96	Peak
5488.000	37.16	-3.65	33.51	54.00	-20.49	150	209	Average	4570.000	43.90	-3.98	39.92	54.00	-14.08	150	138	Average
5488.000	46.92	-3.65	43.27	74.00	-30.73	150	209	Peak	4570.000	54.31	-3.92	50.33	74.00	-23.67	150	138	Peak
16317.000	31.05	11.26	42.31	54.00	-11.69	150	334	Average	16691.000	30.88	12.59	43.47	54.00	-10.53	150	335	Average
16317.000	43.68	11.26	54.94	74.00	-19.06	150	334	Peak	16691.000	42.31	12.59	54.90	74.00	-19.10	150	335	Peak
16708.000	30.57	12.59	43.16	54.00	-10.84	150	89	Average	17133.000	30.08	12.77	42.85	54.00	-11.15	150	127	Average
16708.000	43.10	12.59	55.69	74.00	-18.31	150	89	Peak	17133.000	41.36	12.77	54.13	74.00	-19.87	150	127	Peak
17813.000	32.08	13.46	45.54	54.00	-8.46	150	174	Average	17745.000	32.05	13.08	45.13	54.00	-8.87	150	209	Average
17813.000	42.83	13.46	56.29	74.00	-17.71	150	174	Peak	17745.000	43.12	13.08	56.20	74.00	-17.80	150	209	Peak

High channel																	
Horizontal									Vertical								
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1854.000	60.46	-13.36	47.10	54.00	-6.90	175	104	Average	1854.000	65.63	-13.36	52.27	54.00	-1.73	200	214	Average
1854.000	63.66	-13.36	50.30	74.00	-23.70	175	104	Peak	1854.000	68.58	-13.36	55.22	74.00	-18.78	200	214	Peak
2781.000	46.16	-9.35	36.81	54.00	-17.19	160	128	Average	2122.000	32.99	-11.70	21.29	54.00	-32.71	150	77	Average
2781.000	53.59	-9.35	44.24	74.00	-29.76	160	128	Peak	2122.000	59.92	-11.70	48.22	74.00	-25.78	150	77	Peak
3703.000	39.51	-7.69	31.82	54.00	-22.18	150	222	Average	2781.000	40.71	-9.35	31.36	54.00	-22.64	160	91	Average
3703.000	48.95	-7.69	41.26	74.00	-32.74	150	222	Peak	2781.000	49.35	-9.35	40.00	74.00	-34.00	160	91	Peak
4638.000	38.14	-3.62	34.52	54.00	-19.48	150	269	Average	4638.000	43.30	-3.62	39.68	54.00	-14.32	150	136	Average
4638.000	48.33	-3.62	44.71	74.00	-29.29	150	269	Peak	4638.000	54.50	-3.62	50.88	74.00	-23.12	150	136	Peak
15756.000	32.25	9.49	41.74	54.00	-12.26	150	334	Average	16691.000	30.78	12.59	43.37	54.00	-10.63	150	189	Average
15756.000	45.15	9.49	54.64	74.00	-19.36	150	334	Peak	16691.000	42.16	12.59	54.75	74.00	-19.25	150	189	Peak
16555.000	30.20	12.51	42.71	54.00	-11.29	150	88	Average	17218.000	29.74	12.92	42.66	54.00	-11.34	150	257	Average
16555.000	44.07	12.51	56.58	74.00	-17.42	150	88	Peak	17218.000	41.32	12.92	54.24	74.00	-19.76	150	257	Peak
17779.000	32.12	13.28	45.40	54.00	-8.60	150	56	Average	17796.000	32.25	13.41	45.66	54.00	-8.34	150	326	Average
17779.000	44.26	13.28	57.54	74.00	-16.46	150	56	Peak	17796.000	43.95	13.41	57.36	74.00	-16.64	150	326	Peak

Middle channel

Horizontal									Vertical								
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1830.000	59.18	-13.42	45.76	54.00	-8.24	179	181	Average	1830.000	64.95	-13.42	51.53	54.00	-2.47	220	213	Average
1830.000	62.50	-13.42	49.08	74.00	-24.92	179	181	Peak	1830.000	67.73	-13.42	54.31	74.00	-19.69	220	213	Peak
2745.000	43.74	-9.33	34.41	54.00	-19.59	165	151	Average	2745.000	43.57	-9.33	34.24	54.00	-19.76	160	201	Average
2745.000	53.41	-9.33	44.08	74.00	-29.92	165	151	Peak	2745.000	50.73	-9.33	41.40	74.00	-32.60	160	201	Peak
4570.000	39.97	-3.98	35.99	54.00	-18.01	150	37	Average	3074.000	44.43	-8.06	36.37	54.00	-17.63	150	96	Average
4570.000	50.41	-3.98	46.43	74.00	-27.57	150	37	Peak	3074.000	48.59	-8.06	40.53	74.00	-33.47	150	96	Peak
5488.000	37.16	-3.65	33.51	54.00	-20.49	150	209	Average	4570.000	43.90	-3.98	39.92	54.00	-14.08	150	138	Average
5488.000	46.92	-3.65	43.27	74.00	-30.73	150	209	Peak	4570.000	54.31	-3.98	50.33	74.00	-23.67	150	138	Peak
16317.000	31.05	11.26	42.31	54.00	-11.69	150	334	Average	16691.000	30.88	12.59	43.47	54.00	-10.53	150	335	Average
16317.000	43.68	11.26	54.94	74.00	-19.06	150	334	Peak	16691.000	42.31	12.59	54.90	74.00	-19.10	150	335	Peak
16708.000	30.57	12.59	43.16	54.00	-10.84	150	89	Average	17133.000	30.08	12.77	42.85	54.00	-11.15	150	127	Average
16708.000	43.10	12.59	55.69	74.00	-18.31	150	89	Peak	17133.000	41.36	12.77	54.13	74.00	-19.87	150	127	Peak
17813.000	32.08	13.46	45.54	54.00	-8.46	150	174	Average	17745.000	32.05	13.08	45.13	54.00	-8.87	150	209	Average
17813.000	42.83	13.46	56.29	74.00	-17.71	150	174	Peak	17745.000	43.12	13.08	56.20	74.00	-17.80	150	209	Peak

High channel

Horizontal									Vertical								
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1854.000	60.46	-13.36	47.10	54.00	-6.90	175	104	Average	1854.000	65.63	-13.36	52.27	54.00	-1.73	200	214	Average
1854.000	63.66	-13.36	50.30	74.00	-23.70	175	104	Peak	1854.000	68.58	-13.36	55.22	74.00	-18.78	200	214	Peak
2781.000	46.16	-9.35	36.81	54.00	-17.19	160	128	Average	2122.000	32.99	-11.70	21.29	54.00	-32.71	150	77	Average
2781.000	53.59	-9.35	44.24	74.00	-29.76	160	128	Peak	2122.000	59.92	-11.70	48.22	74.00	-25.78	150	77	Peak
3703.000	39.51	-7.69	31.82	54.00	-22.18	150	222	Average	2781.000	40.71	-9.35	31.36	54.00	-22.64	160	91	Average
3703.000	48.95	-7.69	41.26	74.00	-32.74	150	222	Peak	2781.000	49.35	-9.35	40.00	74.00	-34.00	160	91	Peak
4638.000	38.14	-3.62	34.52	54.00	-19.48	150	269	Average	4638.000	43.30	-3.62	39.68	54.00	-14.32	150	136	Average
4638.000	48.33	-3.62	44.71	74.00	-29.29	150	269	Peak	4638.000	54.50	-3.62	50.88	74.00	-23.12	150	136	Peak
15756.000	32.25	9.49	41.74	54.00	-12.26	150	334	Average	16691.000	30.78	12.59	43.37	54.00	-10.63	150	189	Average
15756.000	45.15	9.49	54.64	74.00	-19.36	150	334	Peak	16691.000	42.16	12.59	54.75	74.00	-19.25	150	189	Peak
16555.000	30.20	12.51	42.71	54.00	-11.29	150	88	Average	17218.000	29.74	12.92	42.66	54.00	-11.34	150	257	Average
16555.000	44.07	12.51	56.58	74.00	-17.42	150	88	Peak	17218.000	41.32	12.92	54.24	74.00	-19.76	150	257	Peak
17779.000	32.12	13.28	45.40	54.00	-8.60	150	56	Average	17796.000	32.25	13.41	45.66	54.00	-8.34	150	326	Average
17779.000	44.26	13.28	57.54	74.00	-16.46	150	56	Peak	17796.000	43.95	13.41	57.36	74.00	-16.64	150	326	Peak

Level = Reading + Factor.

Margin = Level - Limit.

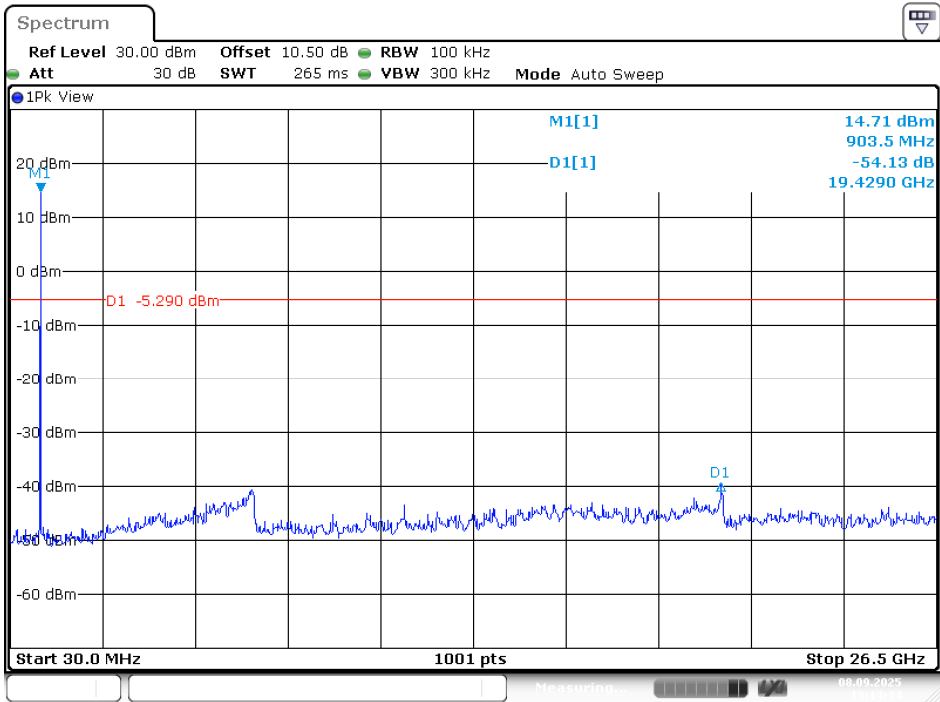
Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Conducted Spurious Emissions:

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
Chain 1				
Low	903	54.13	≥ 20	PASS
Mid	915	55.38	≥ 20	PASS
High	927	54.63	≥ 20	PASS
Chain 2				
Low	903	54.79	≥ 20	PASS
Mid	915	54.74	≥ 20	PASS
High	927	54.46	≥ 20	PASS

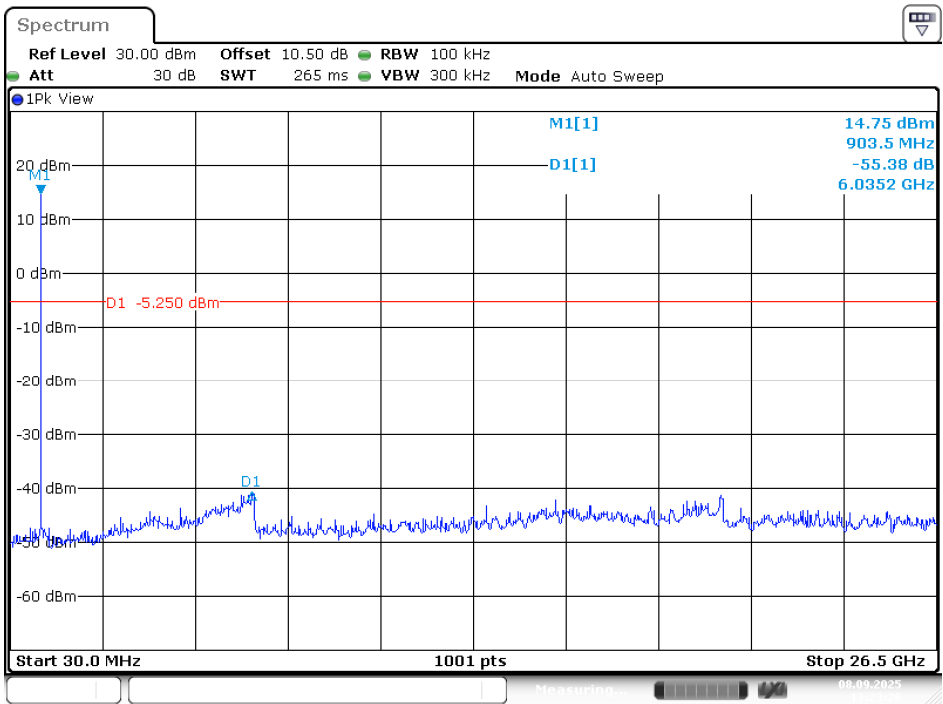
Chain 1

Low Channel



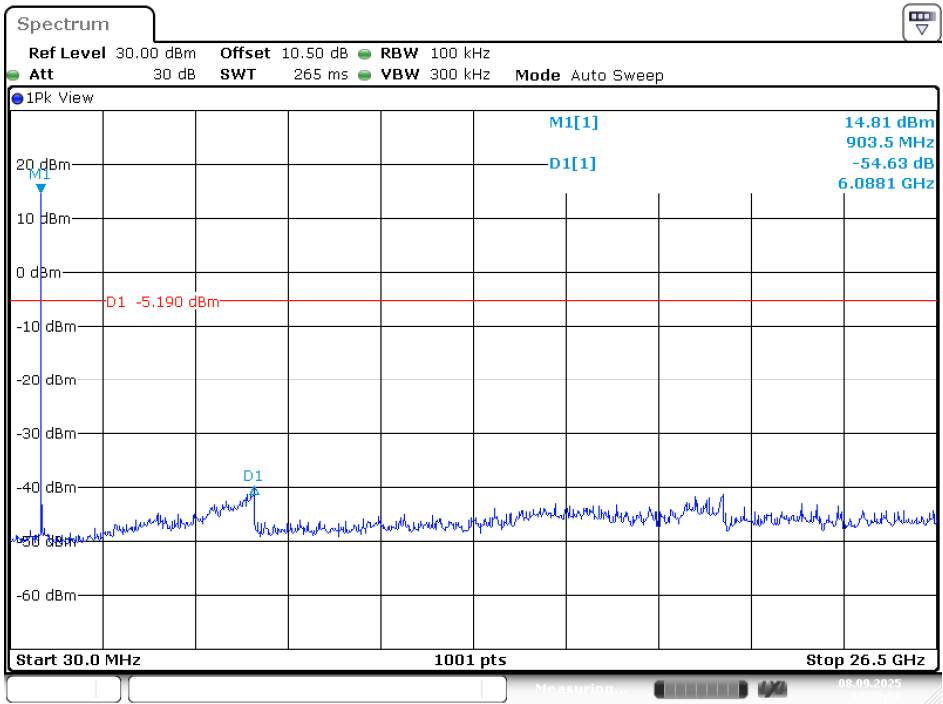
Date: 8.SEP.2025 13:14:35

Middle Channel



Date: 8.SEP.2025 13:23:27

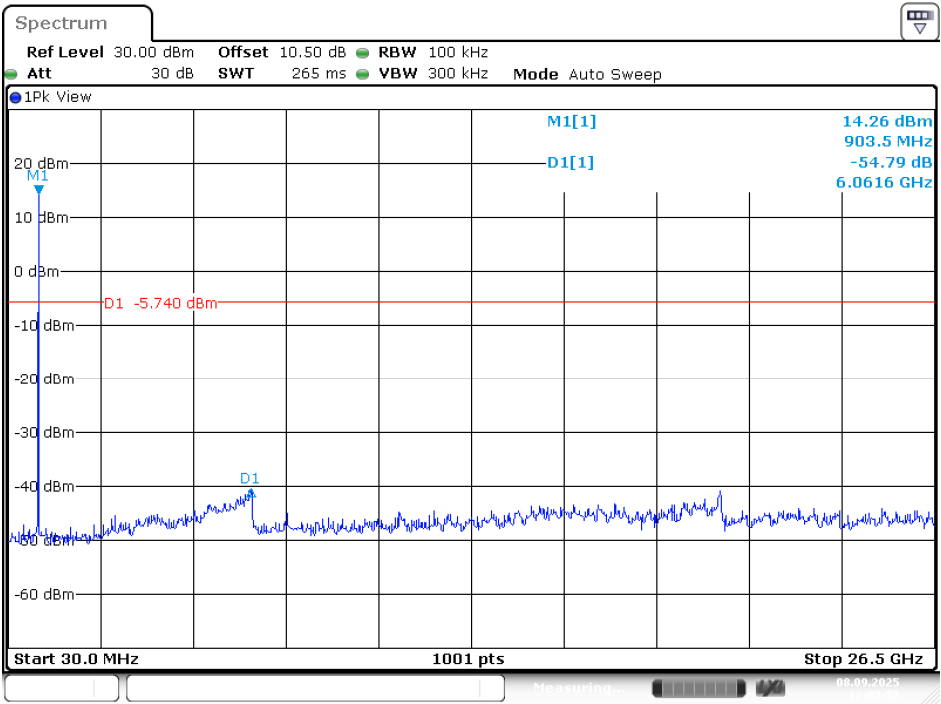
High Channel



Date: 8.SEP.2025 13:28:56

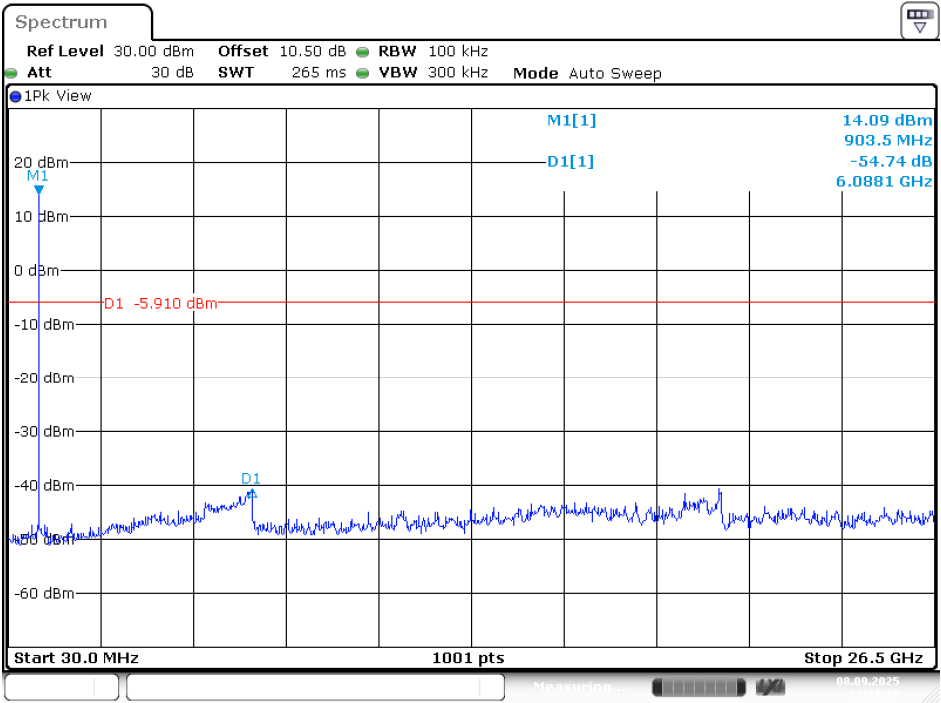
Chain 2

Low Channel



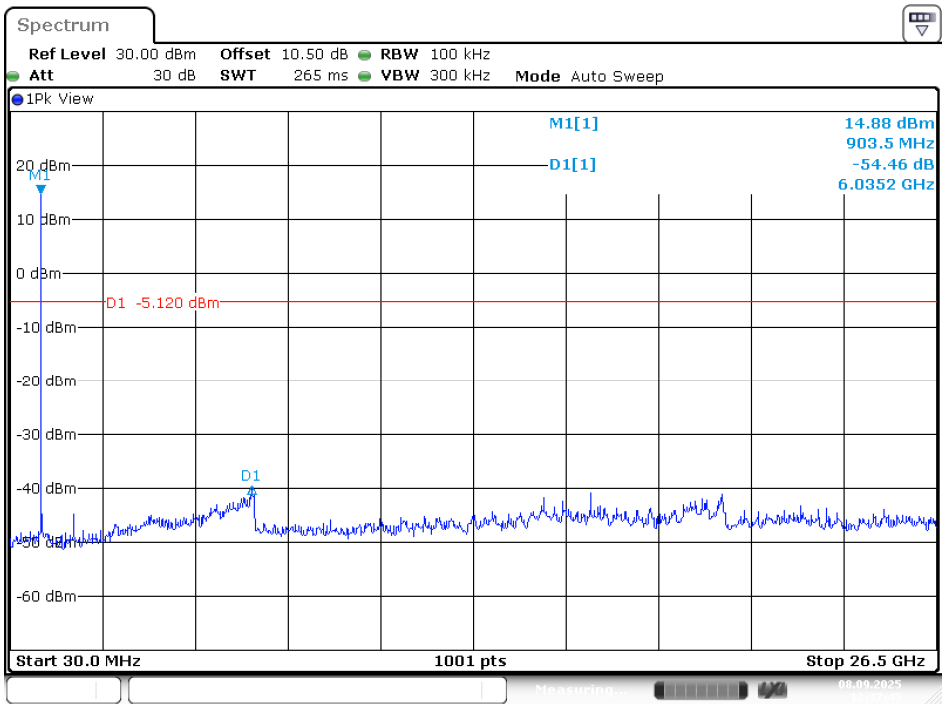
Date: 8.SEP.2025 12:02:58

Middle Channel



Date: 8.SEP.2025 12:31:19

High Channel



Date: 8.SEP.2025 12:37:46

8 FCC §15.247(a)(2) – 6 dB Emission Bandwidth

8.1 Applicable Standard

According to FCC §15.247(a)(2).

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

8.2 Test Procedure

According to ANSI C63.10-2020, section 11.8

The steps for the first option are as follows:

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “–6 dB down amplitude”. If a marker is below this “–6 dB down amplitude” value, then it shall be as close as possible to this value.

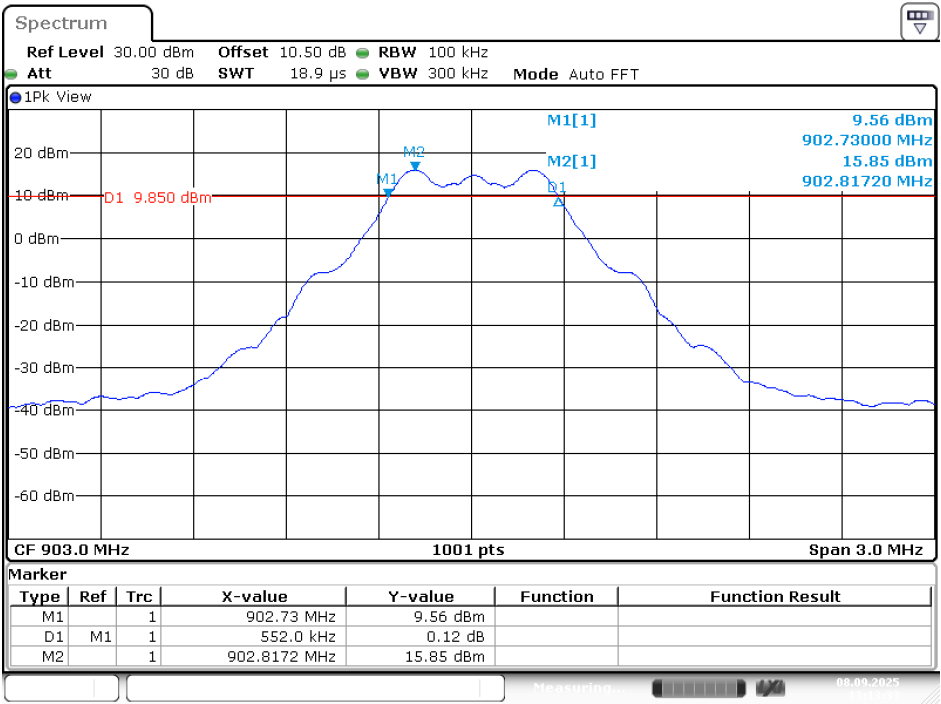
8.3 Test Results

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)	Result
Chain 1				
Low	903	0.55	> 500	Compliance
Middle	915	0.55	> 500	Compliance
High	927	0.55	> 500	Compliance
Chain 2				
Low	903	0.55	> 500	Compliance
Middle	915	0.54	> 500	Compliance
High	927	0.55	> 500	Compliance

Please refer to the following plots

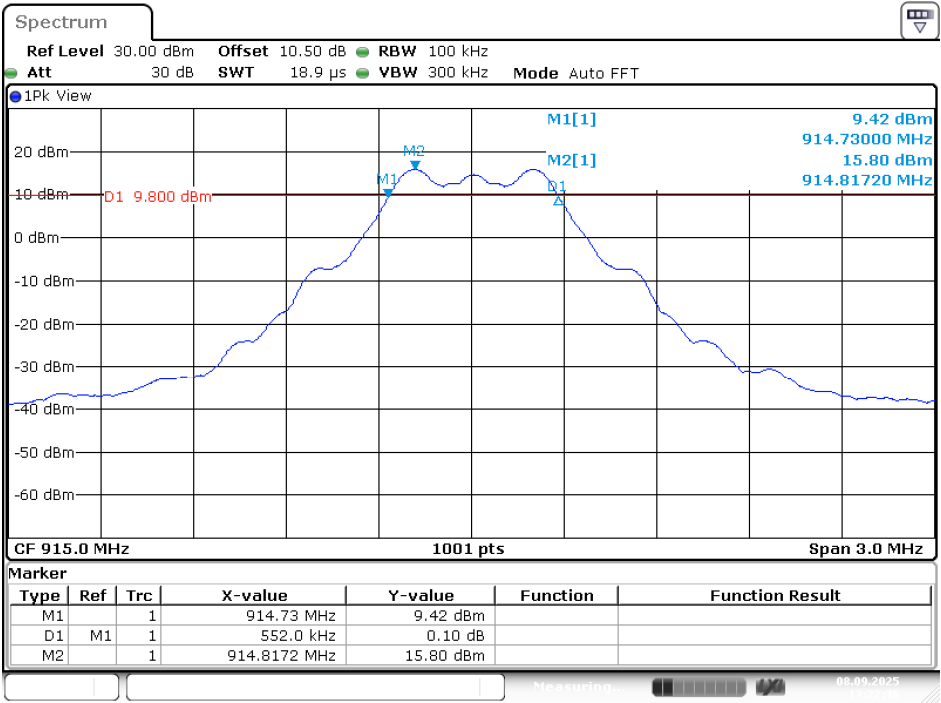
Chain 1

Low Channel



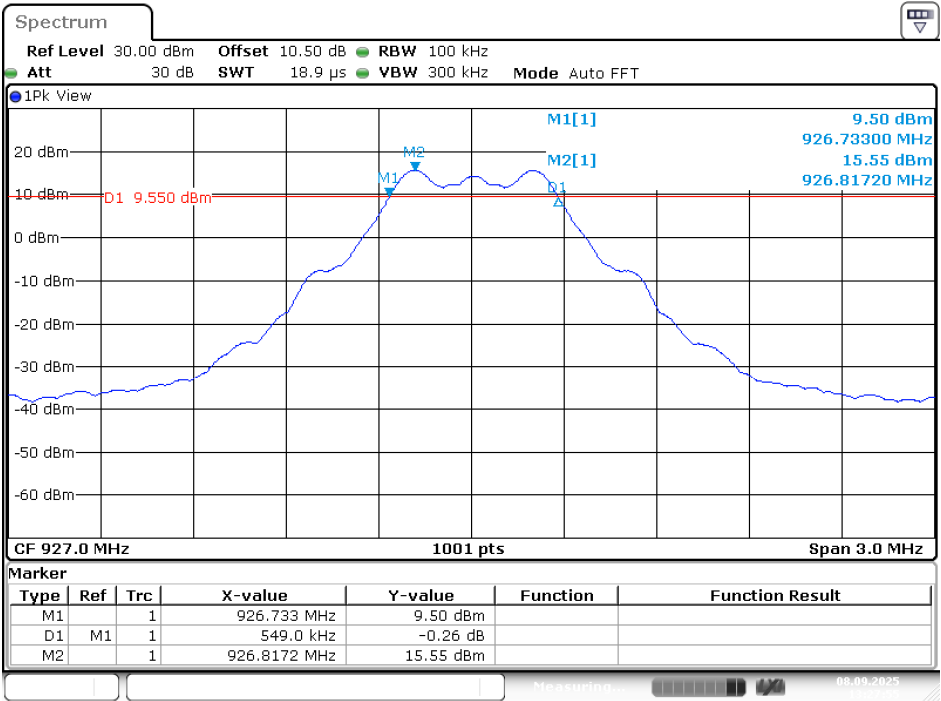
Date: 8.SEP.2025 13:13:33

Middle Channel



Date: 8.SEP.2025 13:22:35

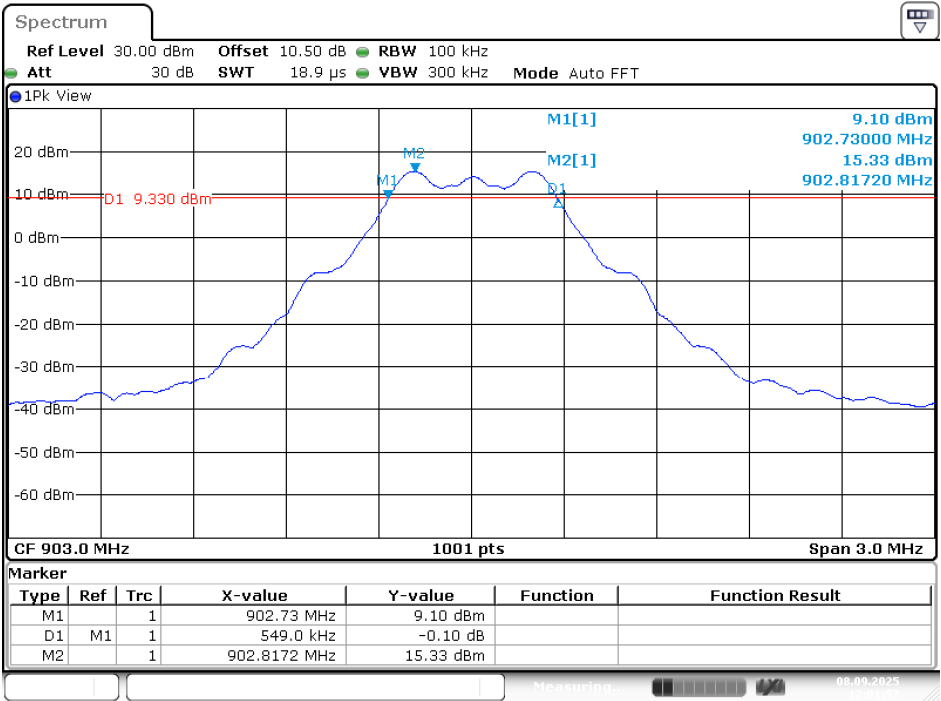
High Channel



Date: 8.SEP.2025 13:27:56

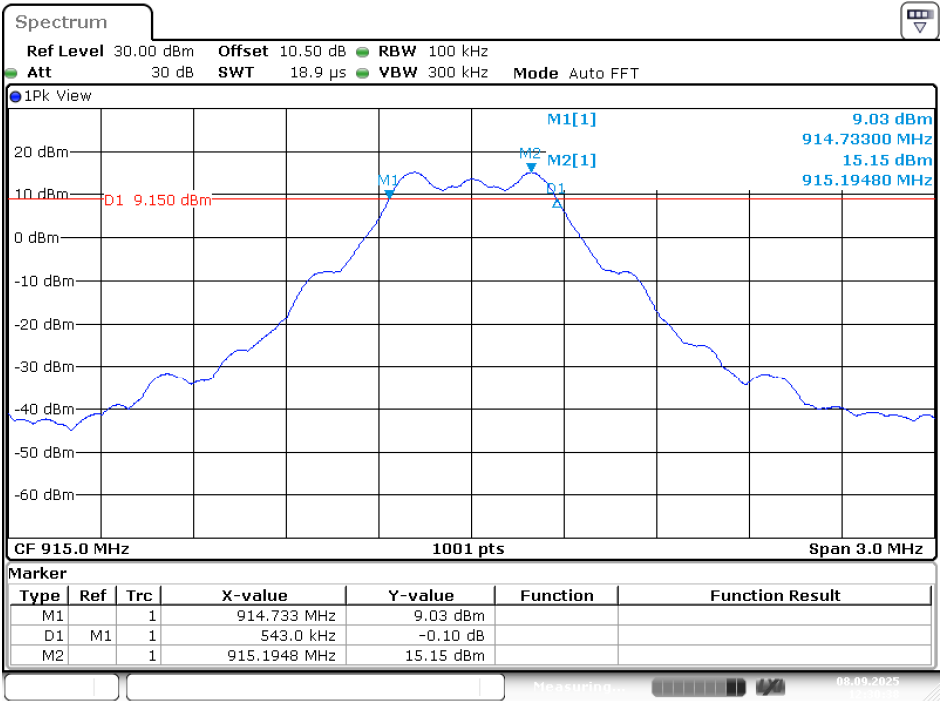
Chain 2

Low Channel



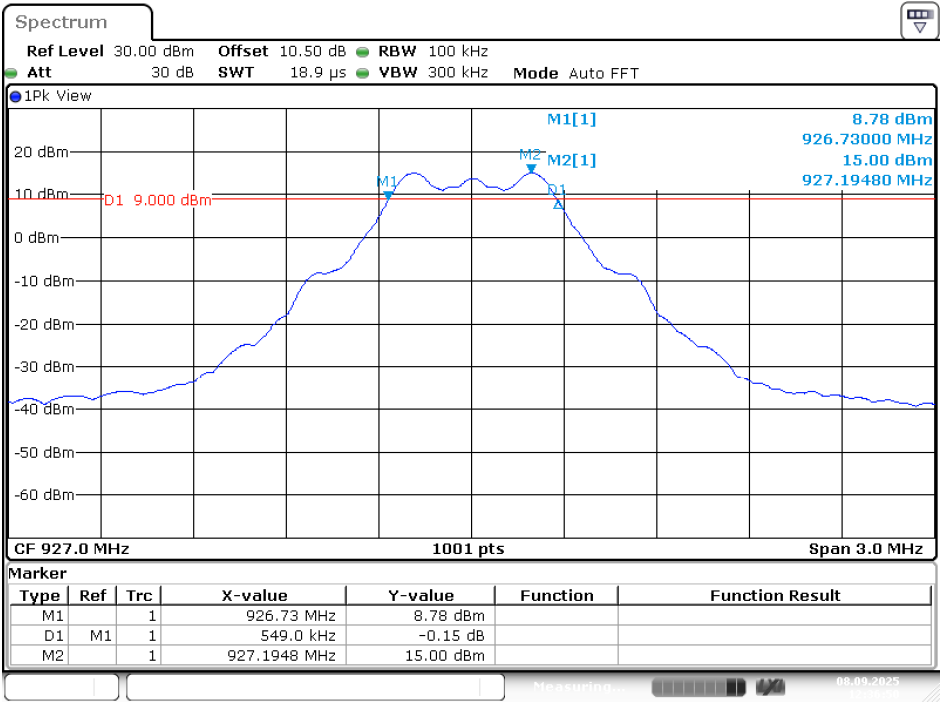
Date: 8.SEP.2025 12:01:57

Middle Channel



Date: 8.SEP.2025 12:30:39

High Channel



Date: 8.SEP.2025 12:36:50

9 FCC §15.247(b)(3) – Maximum Output Power

9.1 Applicable Standard

According to FCC §15.247(b) (3).

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

9.2 Test Procedure

According to ANSI C63.10-2020, section 11.9.1.2

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.

9.3 Test Results

Conducted Peak Output Power

Channel	Frequency (MHz)	Conducted Peak Output Power (dBm)	Limit (dBm)	Result
Chain 1				
Low	903	16.00	30	PASS
Middle	915	15.84	30	PASS
High	927	15.61	30	PASS
Chain 2				
Low	903	15.48	30	PASS
Middle	915	15.33	30	PASS
High	927	15.14	30	PASS

10 FCC§15.247(d) – 100 kHz Bandwidth of Frequency Band Edge

10.1 Applicable Standard

According to FCC §15.247(d).

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

10.2 Test Procedure

According to ANSI C63.10-2020 Section 11.11

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 100 kHz.
3. Set the VBW $\geq [3 \times \text{RBW}]$.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

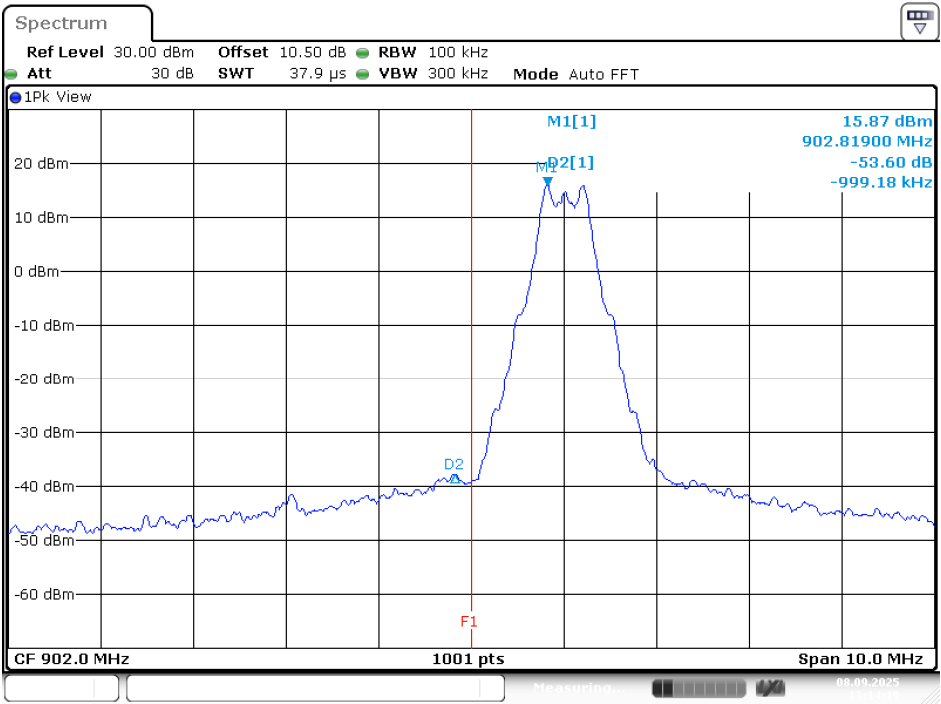
10.3 Test Results

Channel	Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Result
Chain 1				
Low	903	53.60	≥ 20	PASS
High	927	52.44	≥ 20	PASS
Chain 2				
Low	903	53.17	≥ 20	PASS
High	927	52.71	≥ 20	PASS

Please refer to the following plots

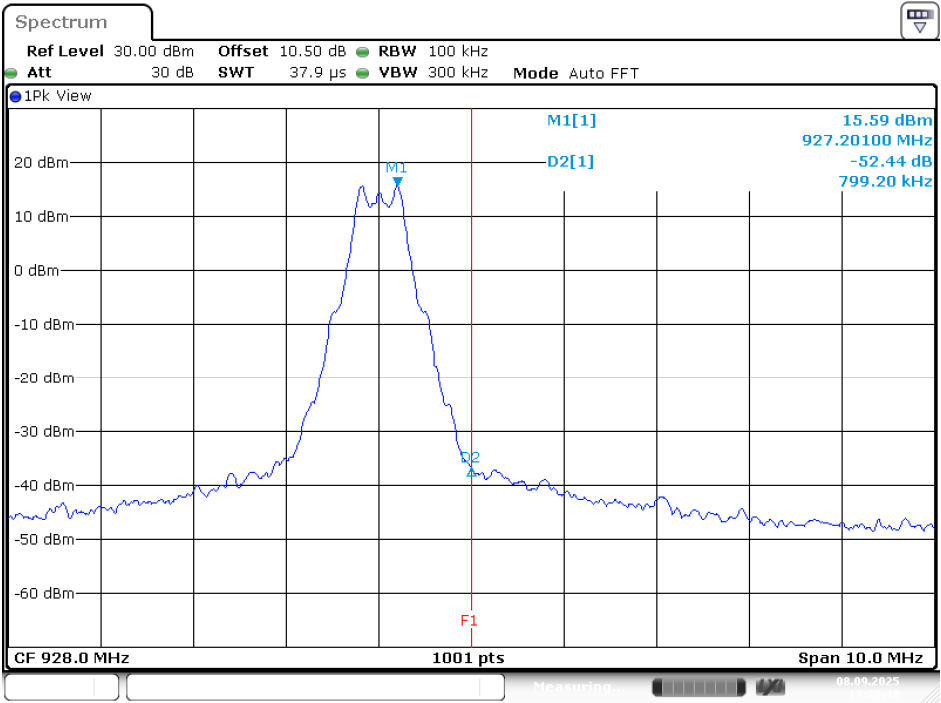
Chain 1

Band Edge, Left Side



Date: 8.SEP.2025 13:14:19

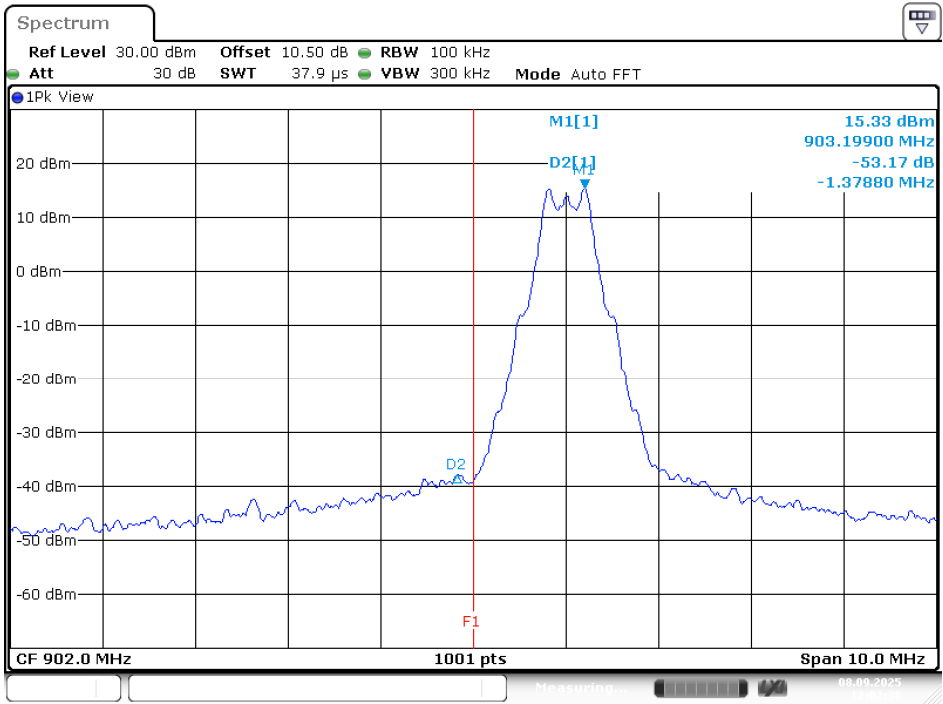
Band Edge, Right Side



Date: 8.SEP.2025 13:28:37

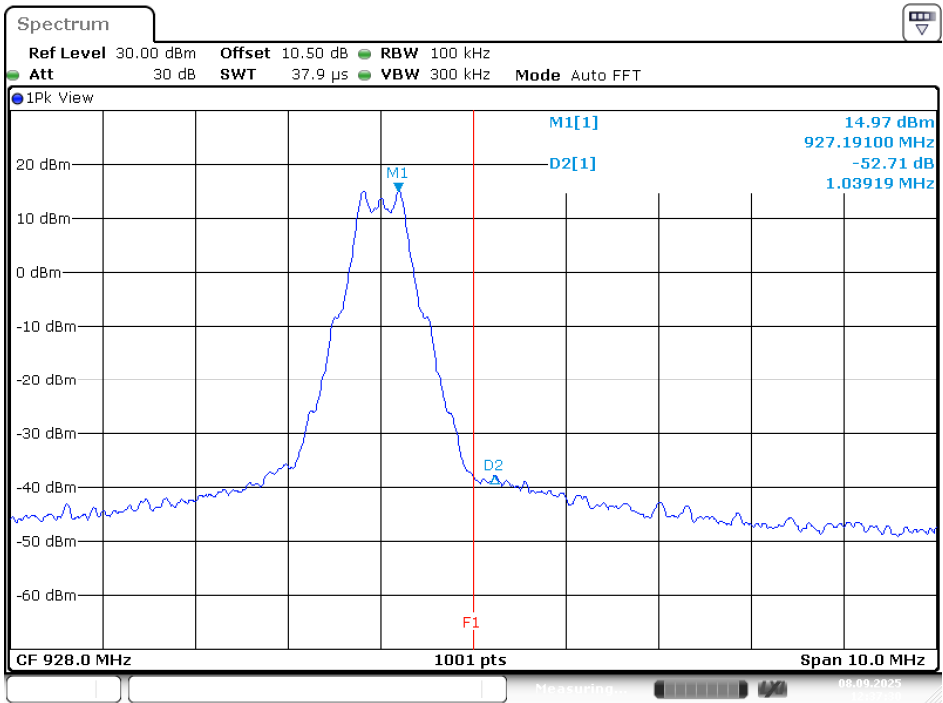
Chain 2

Band Edge, Left Side



Date: 8.SEP.2025 12:02:38

Band Edge, Right Side



Date: 8.SEP.2025 12:37:30

11 FCC §15.247(e) – Power Spectral Density

11.1 Applicable Standard

According to FCC §15.247(e).

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

11.2 Test Procedure

According to ANSI C63.10-2020, section 11.10.2

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span >1.5 times the DTS bandwidth
3. Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat

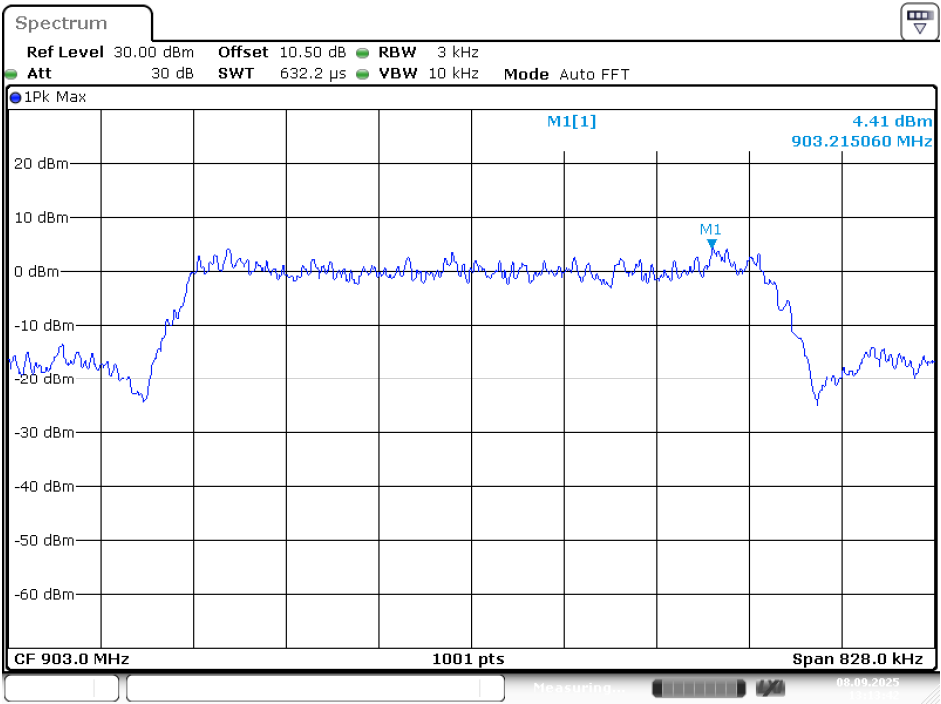
11.3 Test Results

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm/3 kHz)	Result
Chain 1				
Low	903	4.41	8	Compliance
Middle	915	4.32	8	Compliance
High	927	4.16	8	Compliance
Chain 2				
Low	903	3.80	8	Compliance
Middle	915	3.73	8	Compliance
High	927	3.55	8	Compliance

Please refer to the following plots

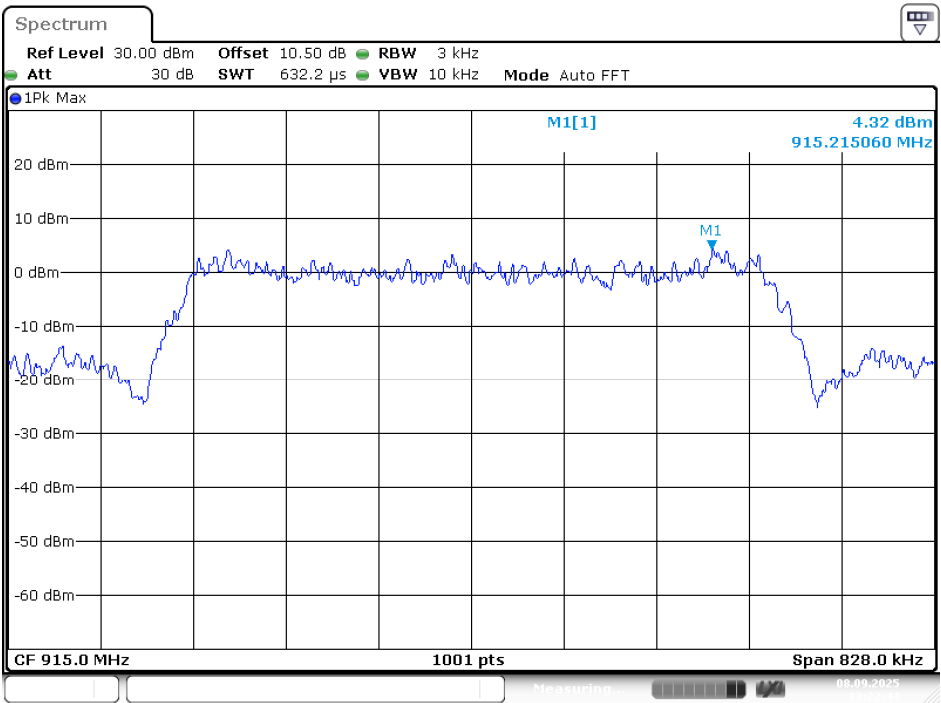
Chain 1

Low Channel



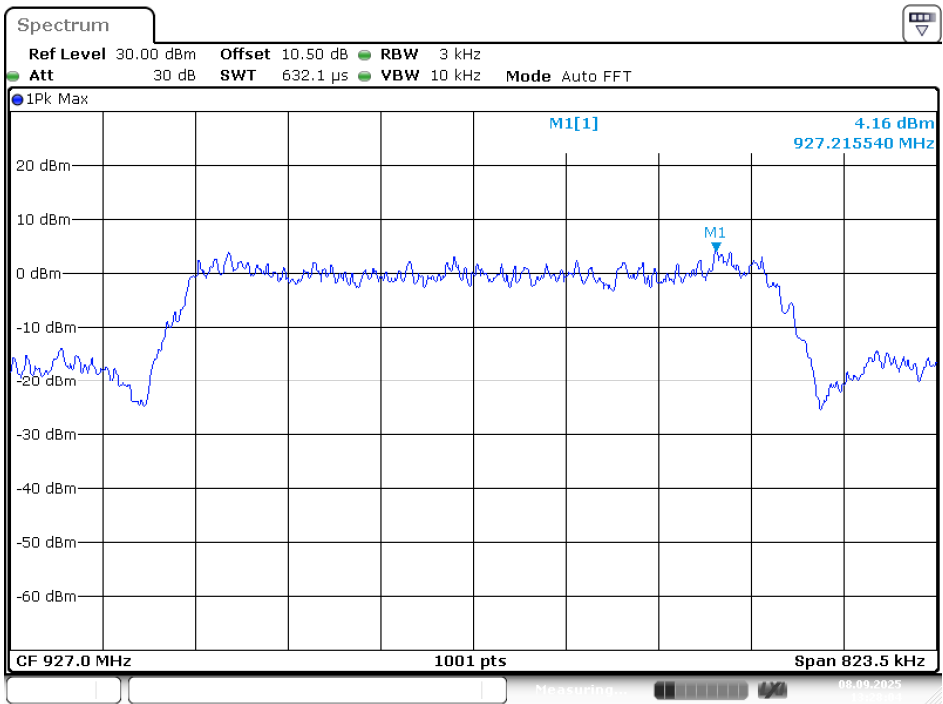
Date: 8.SEP.2025 13:13:42

Middle Channel



Date: 8.SEP.2025 13:22:45

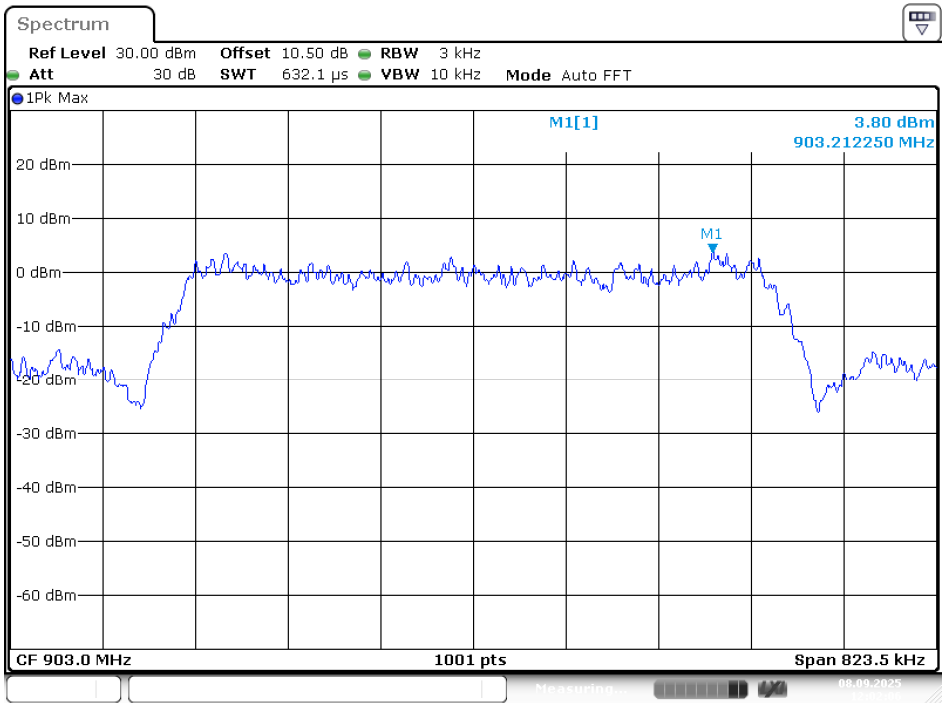
High Channel



Date: 8.SEP.2025 13:28:05

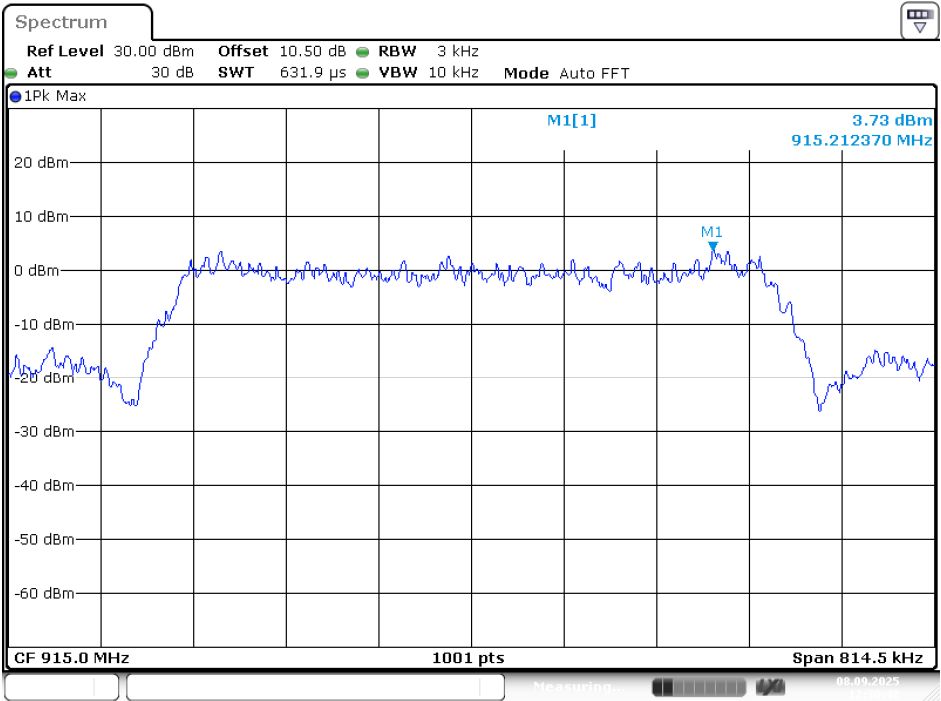
Chain 2

Low Channel



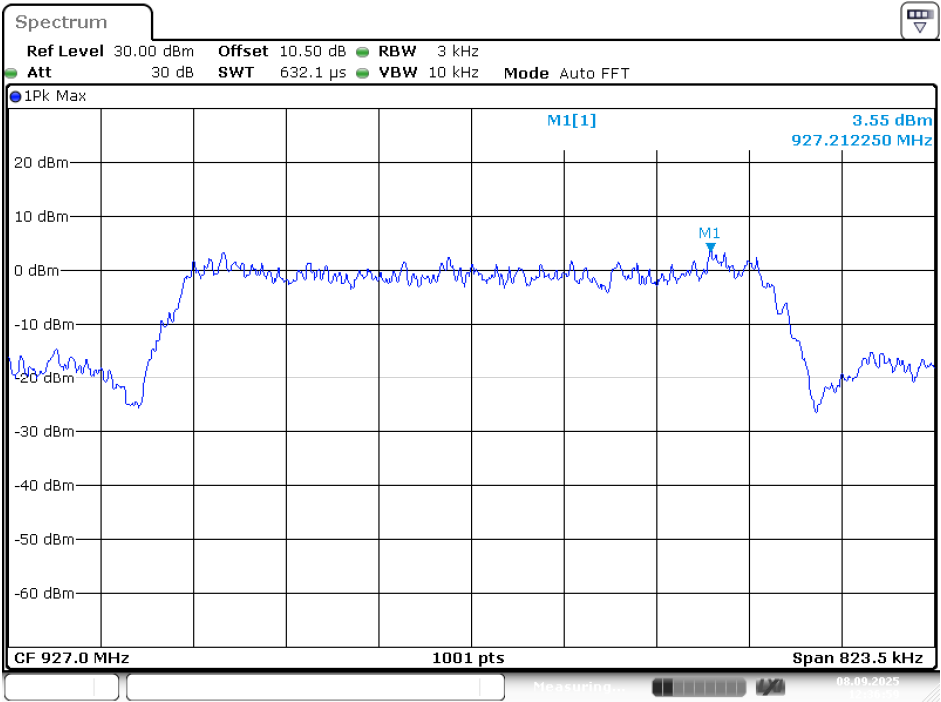
Date: 8.SEP.2025 12:02:07

Middle Channel



Date: 8.SEP.2025 12:30:48

High Channel



Date: 8.SEP.2025 12:36:59

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