

Prüfbericht-Nr.: <i>Test report no.:</i>	CN26J4E3 003	Auftrags-Nr.: <i>Order no.:</i>	168584456	Seite 1 von 20 Page 1 of 20
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-11-17	
Auftraggeber: <i>Client:</i>	Moga Technology Co., Ltd. 6-201 Room, business street, Huashan Road, Longshan district, Economic and Technological Development Area, Wuhu 241000 Anhui, P.R. China			
Prüfgegenstand: <i>Test item:</i>	AiMOGA Mornine			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	M1			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR Title 47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 4 July 2025 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2026-02-12	Please refer to photo documents		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004209761-001~009			
Prüfzeitraum: <i>Testing period:</i>	2026-03-19 - 2026-04-01			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>			genehmigt von: <i>authorized by:</i>	
Datum: <i>Date:</i>	2026-06-05	Ausstellungsdatum: <i>Issue date:</i>		2026-06-05
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:		Sachverständige(r)/Expert
Sonstiges / <i>Other:</i>	FCC ID: 2BTJ8MORNINEM1 IC: 34938-MORNINEM1 HVIN: M1 This report is for Lora.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Lora

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

FCC Accreditation Designation No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
Wireless Connectivity Tester	R&S	CMW270	102505	2025-09-23	2026-09-22
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2025-09-23	2026-09-22
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2025-09-23	2026-09-22
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2025-09-23	2026-09-22
DC power supply	Keysight	E3642A	MY61276100	2025-09-23	2026-09-22
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2025-09-23	2026-09-22
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2025-09-23	2026-09-22
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2025-09-22	2026-09-21
Signal Analyzer	R&S	FSV 40	101439	2025-09-22	2026-09-21
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2025-09-22	2026-09-21
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2025-09-22	2026-09-21
Amplifier	R&S	SCU-18F	180070	2025-09-22	2026-09-21
Amplifier	R&S	SCU40A	100475	2025-09-22	2026-09-21
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2026-09-27
Double-Ridged	ETS-LINDGREN	3117	00218717	2024-09-28	2026-09-27

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Antenna (1-18 GHz)					
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2026-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2026-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The Product is an AiMOGA Mornine which support 2.4GHz Wi-Fi, 5GHz Wi-Fi and Lora wireless technologies.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	AiMOGA Mornine
Type Designation:	M1
FCC ID:	2BTJ8MORNINEM1
IC:	34938-MORNINEM1
HVIN:	M1
Operating Voltage:	46.8Vdc Battery Powered
Test Voltage:	46.8Vdc Battery Powered
Radiofrequency operating mode:	1) 2.4GHz Wi-Fi: operating within 2400-2483.5MHz 2) 5GHz Wi-Fi: operating within 5150-5250MHz, 5745-5825MHz 3) Lora: 902-928MHz
Technical Specification of Lora transmitters 1 and 2*	
Operating Frequency:	903-914.2 MHz, 923.3-927.5 MHz
Type of Modulation:	CSS
Channel Number:	903-914.2MHz, 8CHs 923.3-927.5MHz, 8CHs
Channel Separation:	800kHz
Antenna Type:	Internal Antennas (The internal antennas with SMA connector are within the transmitter's enclosure and cannot be accessed.)
Antenna Number:	1Tx1Rx
Antenna Gain:	2.0 dBi (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

*This device has two same Lora transmitters, only SISO mode supported. They are tested respectively, only the worst cases reported.

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Lora DTS transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Lora with 5GHz Wi-Fi co-location mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- User Manual
- Operation Description
- FCC/IC Label and Location Info

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024.

According to clause 3.1, all tests were performed in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8
DC Power Supply	KIKUSUI	PAN35-5A	YM002997

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

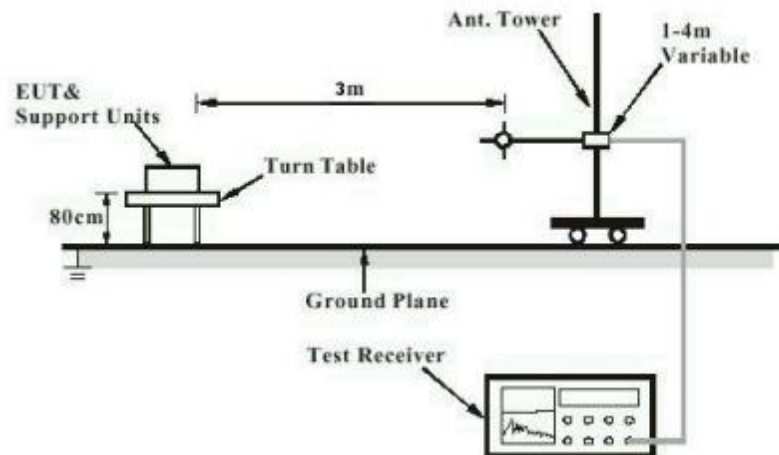


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

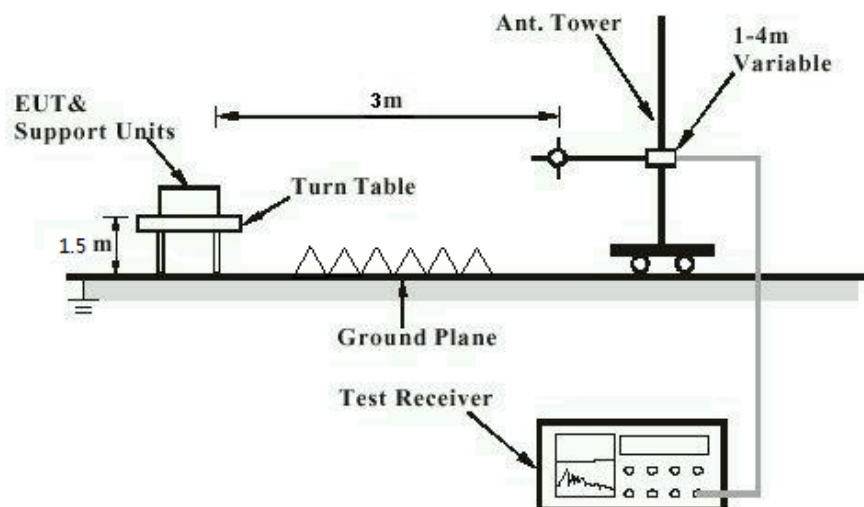
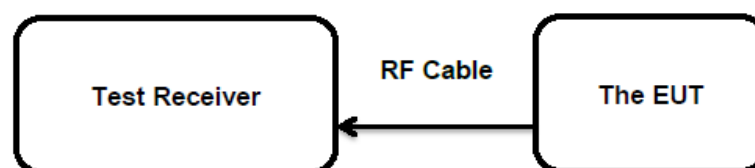


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

The EUT has Internal Antennas, within the transmitter's enclosure and cannot be accessed, no consideration of replacement, refer to section 3.2 for details.

Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(b)(3)
RSS-247 Clause 6.3.2

Basic standard : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+
C63.10a:2024

Limits : < 1.0 W

Kind of test site : Shielded Room

Test Setup

Date of testing : 2026-03-19 to 2026-03-27

Input voltage : Fully charged battery

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 25 °C

Relative humidity : 45 %

Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 5: Test Result of Maximum Peak Conducted Output Power
LoRa transmitter 1#:

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
LORA_DTS_SF7	Ant1	903	15.78	≤30	17.78	≤36	PASS
LORA_DTS_SF12	Ant1	903	10.04	≤30	12.04	≤36	PASS
LORA_DTS_SF7	Ant1	907.8	14.88	≤30	16.88	≤36	PASS
LORA_DTS_SF12	Ant1	907.8	9.95	≤30	11.95	≤36	PASS
LORA_DTS_SF7	Ant1	914.2	15.59	≤30	17.59	≤36	PASS
LORA_DTS_SF12	Ant1	914.2	9.72	≤30	11.72	≤36	PASS
LORA_DTS_SF7	Ant1	923.3	19.40	≤30	21.4	≤36	PASS
LORA_DTS_SF12	Ant1	923.3	11.26	≤30	13.26	≤36	PASS
LORA_DTS_SF7	Ant1	925.1	19.32	≤30	21.32	≤36	PASS
LORA_DTS_SF12	Ant1	925.1	11.15	≤30	13.15	≤36	PASS
LORA_DTS_SF7	Ant1	927.5	16.74	≤30	18.74	≤36	PASS
LORA_DTS_SF12	Ant1	927.5	11.03	≤30	13.03	≤36	PASS

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LoRa transmitter 2#:

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
LORA_DTS_SF7	Ant1	903	15.77	≤30	17.77	≤36	PASS
LORA_DTS_SF12	Ant1	903	10.04	≤30	12.04	≤36	PASS
LORA_DTS_SF7	Ant1	907.8	14.85	≤30	16.85	≤36	PASS
LORA_DTS_SF12	Ant1	907.8	9.97	≤30	11.97	≤36	PASS
LORA_DTS_SF7	Ant1	914.2	15.61	≤30	17.61	≤36	PASS
LORA_DTS_SF12	Ant1	914.2	9.73	≤30	11.73	≤36	PASS
LORA_DTS_SF7	Ant1	923.3	19.44	≤30	21.44	≤36	PASS
LORA_DTS_SF12	Ant1	923.3	11.31	≤30	13.31	≤36	PASS
LORA_DTS_SF7	Ant1	925.1	19.35	≤30	21.35	≤36	PASS
LORA_DTS_SF12	Ant1	925.1	11.13	≤30	13.13	≤36	PASS
LORA_DTS_SF7	Ant1	927.5	16.72	≤30	18.72	≤36	PASS
LORA_DTS_SF12	Ant1	927.5	11.05	≤30	13.05	≤36	PASS

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna Gain: 2.02 dBi

$$e.i.r.p. = P_{(Peak\ power)} + G$$
 which is far below the 4 W

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5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(e) RSS-247 Clause 6.3.1
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-03-19 to 2026-03-27
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)(2) RSS-247 Clause 6.3.1
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: > 500 kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-03-19 to 2026-03-27
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a) RSS-Gen Clause 6.7
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: Within assigned band 2400-2483.5MHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-03-19 to 2026-03-27
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d) RSS-247 Clause 6.6
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-03-19 to 2026-03-27
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A.

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5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 2.4
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2026-03-31 to 2026-04-01
Input voltage	: Fully charged battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test results
Relative humidity	: Refer to test results
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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Appendix A.1: Test Results of 6dB Bandwidth

Test Result

Both LoRa transmitters 1 and 2 tested, only the worst-case reported.

TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
LORA_DTS_SF7	Ant1	903	0.621	902.690	903.311	0.5	PASS
LORA_DTS_SF12	Ant1	903	0.629	902.689	903.318	0.5	PASS
LORA_DTS_SF7	Ant1	907.8	0.608	907.499	908.107	0.5	PASS
LORA_DTS_SF12	Ant1	907.8	0.634	907.483	908.117	0.5	PASS
LORA_DTS_SF7	Ant1	914.2	0.611	913.892	914.503	0.5	PASS
LORA_DTS_SF12	Ant1	914.2	0.631	913.886	914.517	0.5	PASS
LORA_DTS_SF7	Ant1	923.3	0.613	922.997	923.610	0.5	PASS
LORA_DTS_SF12	Ant1	923.3	0.631	922.984	923.615	0.5	PASS
LORA_DTS_SF7	Ant1	925.1	0.611	924.798	925.409	0.5	PASS
LORA_DTS_SF12	Ant1	925.1	0.636	924.781	925.417	0.5	PASS
LORA_DTS_SF7	Ant1	927.5	0.617	927.190	927.807	0.5	PASS
LORA_DTS_SF12	Ant1	927.5	0.635	927.180	927.815	0.5	PASS

Test Graphs



LORA_DTS_SF7-Ant1-903-PASS



LORA_DTS_SF12-Ant1-903-PASS



LORA_DTS_SF7-Ant1-907.8-PASS



LORA_DTS_SF12-Ant1-907.8-PASS



LORA_DTS_SF7-Ant1-914.2-PASS



LORA_DTS_SF12-Ant1-914.2-PASS



LORA DTS SF7-Ant1-923.3-PASS



LORA DTS SF12-Ant1-923.3-PASS



LORA DTS SF7-Ant1-925.1-PASS



LORA DTS SF12-Ant1-925.1-PASS



LORA_DTS_SF7-Ant1-927.5-PASS



LORA_DTS_SF12-Ant1-927.5-PASS

Appendix A.2: Test Results of 99% Bandwidth

Test Result

Both LoRa transmitters 1 and 2 tested, only the worst-case reported.

TestMode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
LORA_DTS_SF7	Ant1	903	0.51624	902.7447	903.2609	---	PASS
LORA_DTS_SF12	Ant1	903	0.50416	902.7487	903.2529	---	PASS
LORA_DTS_SF7	Ant1	907.8	0.50851	907.5484	908.0569	---	PASS
LORA_DTS_SF12	Ant1	907.8	0.50538	907.5479	908.0533	---	PASS
LORA_DTS_SF7	Ant1	914.2	0.51678	913.9442	914.4610	---	PASS
LORA_DTS_SF12	Ant1	914.2	0.49775	913.9564	914.4541	---	PASS
LORA_DTS_SF7	Ant1	923.3	0.50603	923.0510	923.5570	---	PASS
LORA_DTS_SF12	Ant1	923.3	0.50563	923.0483	923.5540	---	PASS
LORA_DTS_SF7	Ant1	925.1	0.50975	924.8508	925.3606	---	PASS
LORA_DTS_SF12	Ant1	925.1	0.50464	924.8490	925.3536	---	PASS
LORA_DTS_SF7	Ant1	927.5	0.52170	927.2407	927.7624	---	PASS
LORA_DTS_SF12	Ant1	927.5	0.50545	927.2471	927.7525	---	PASS

Test Graphs



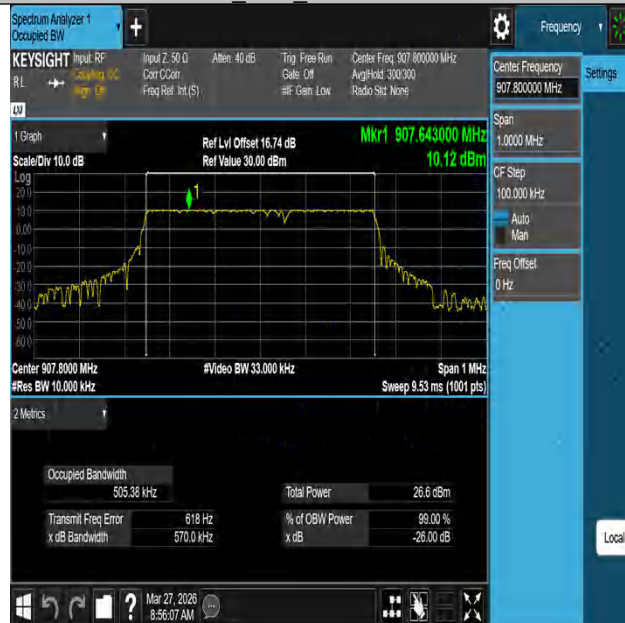
LORA DTS SF7-Ant1-903



LORA DTS SF12-Ant1-903



LORA_DTS_SF7-Ant1-907.8

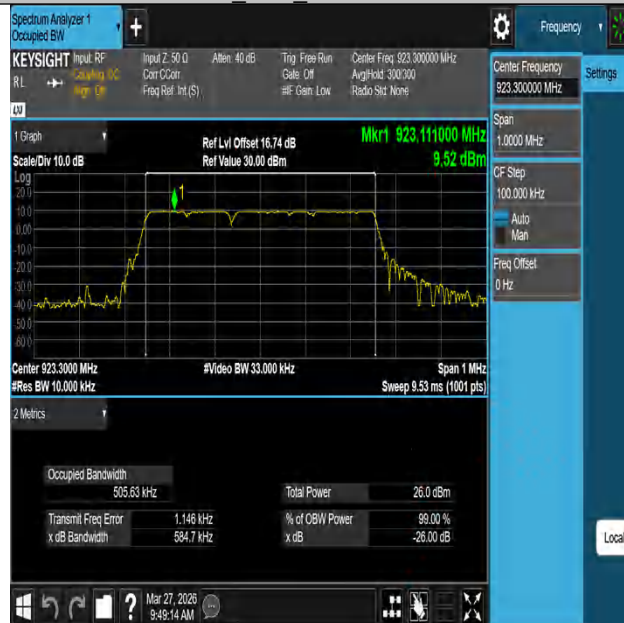


LORA_DTS_SF12-Ant1-907.8





LORA_DTS_SF7-Ant1-923.3



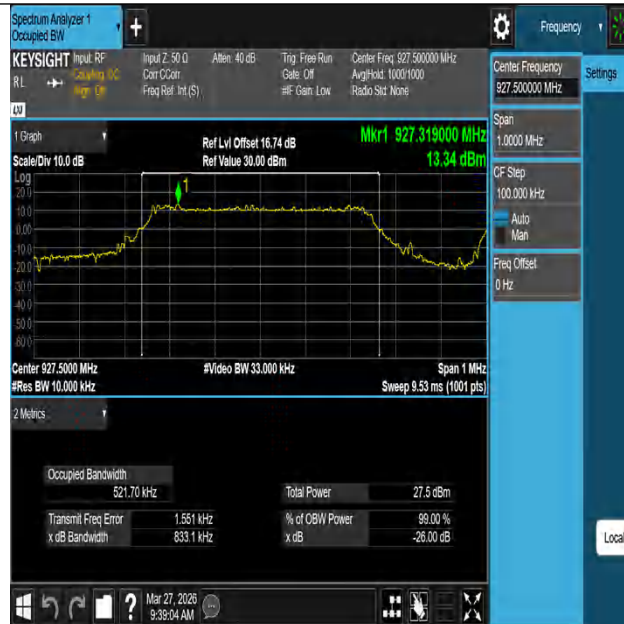
LORA_DTS_SF12-Ant1-923.3



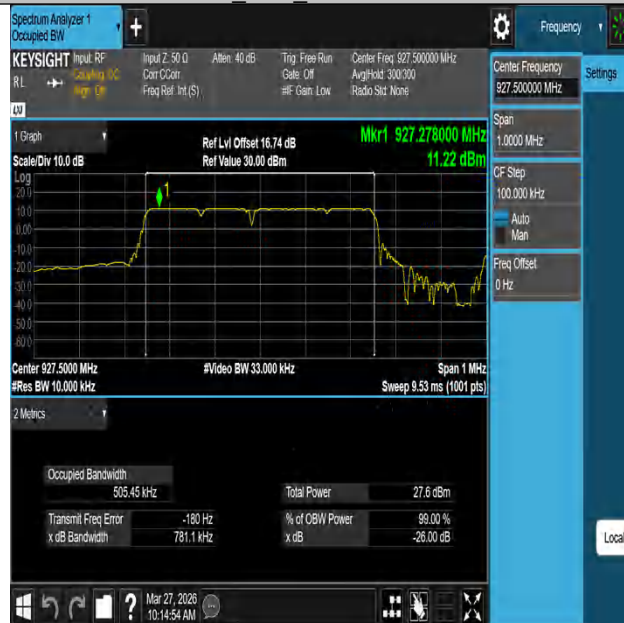
LORA_DTS_SF7-Ant1-925.1



LORA_DTS_SF12-Ant1-925.1



LORA_DTS_SF7-Ant1-927.5



LORA_DTS_SF12-Ant1-927.5

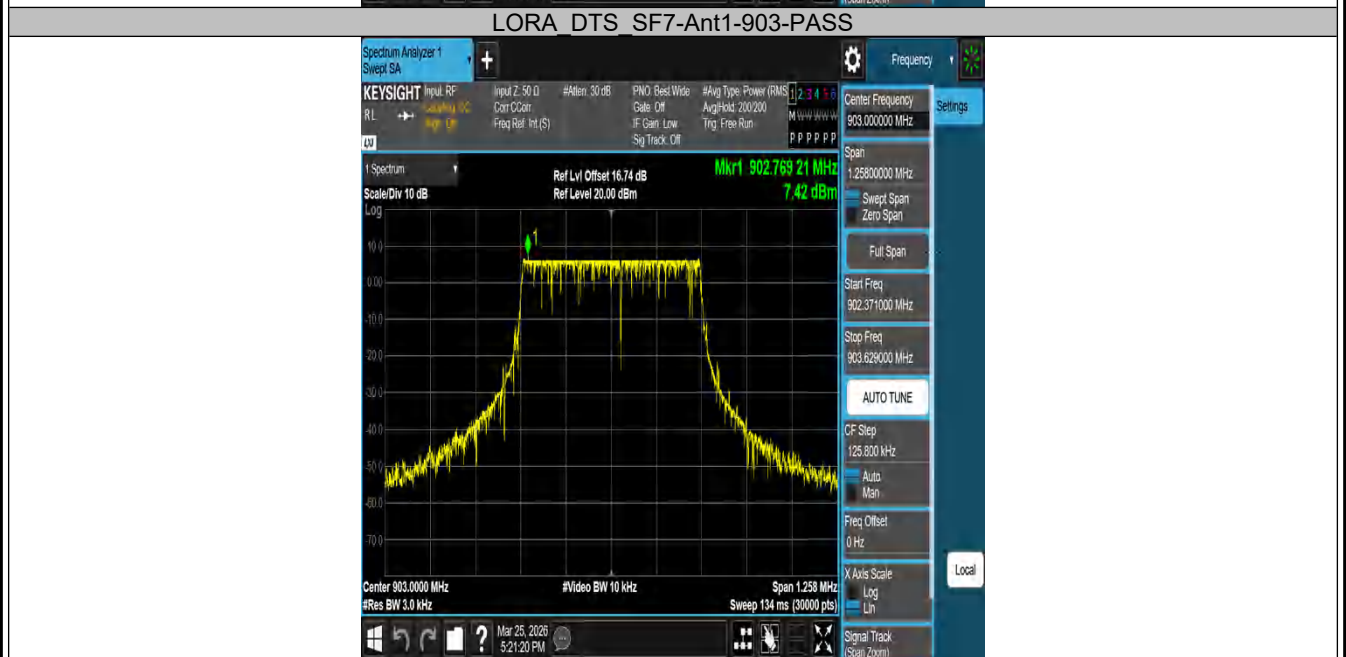
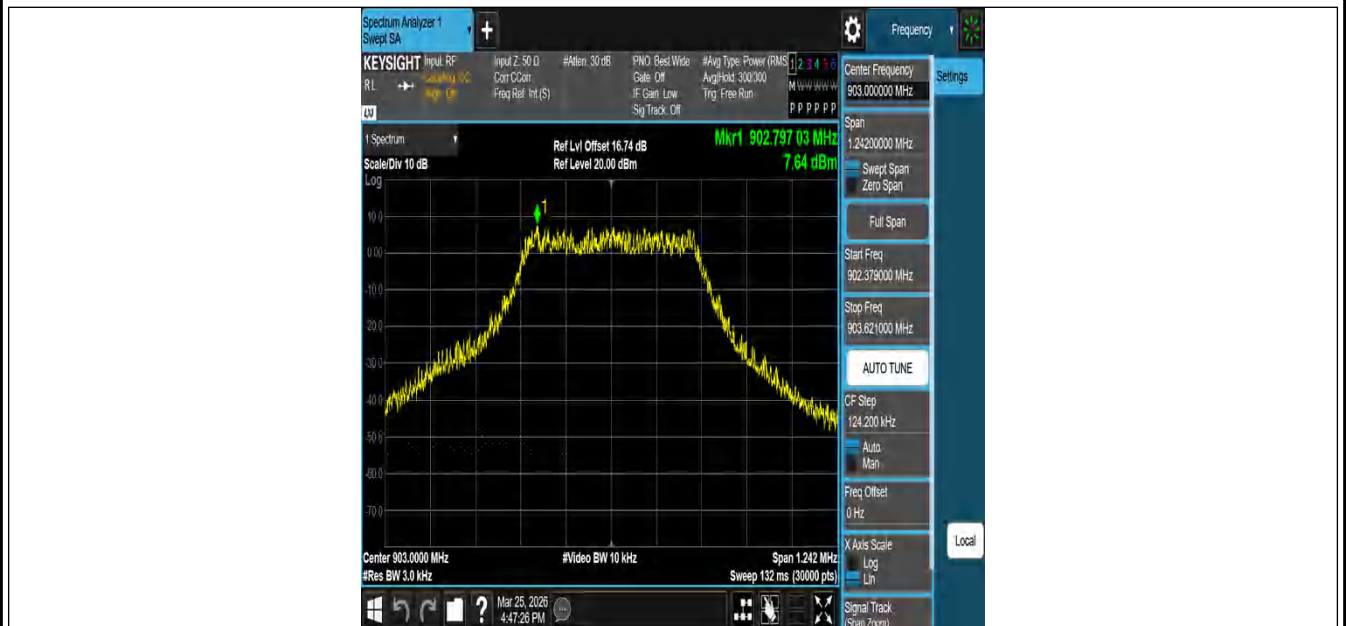
Appendix A.3: Test Results of Conducted Power Spectral Density

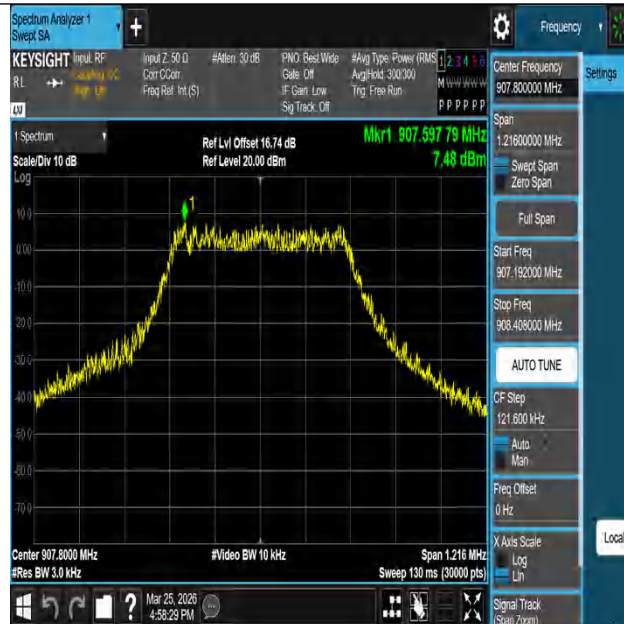
Test Result

Both LoRa transmitters 1 and 2 tested, only the worst-case reported.

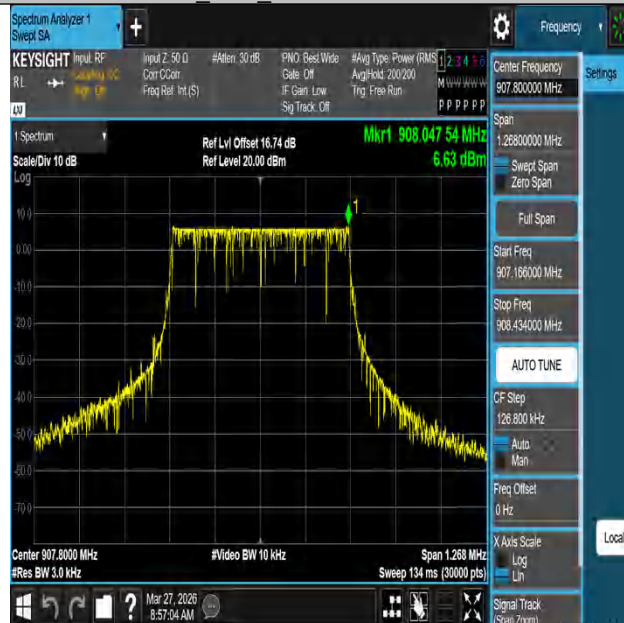
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
LORA_DTS_SF7	Ant1	903	7.64	≤8.00	PASS
LORA_DTS_SF12	Ant1	903	7.43	≤8.00	PASS
LORA_DTS_SF7	Ant1	907.8	7.48	≤8.00	PASS
LORA_DTS_SF12	Ant1	907.8	6.63	≤8.00	PASS
LORA_DTS_SF7	Ant1	914.2	7.64	≤8.00	PASS
LORA_DTS_SF12	Ant1	914.2	7.00	≤8.00	PASS
LORA_DTS_SF7	Ant1	923.3	7.32	≤8.00	PASS
LORA_DTS_SF12	Ant1	923.3	7.89	≤8.00	PASS
LORA_DTS_SF7	Ant1	925.1	7.19	≤8.00	PASS
LORA_DTS_SF12	Ant1	925.1	7.82	≤8.00	PASS
LORA_DTS_SF7	Ant1	927.5	4.54	≤8.00	PASS
LORA_DTS_SF12	Ant1	927.5	7.69	≤8.00	PASS

Test Graphs

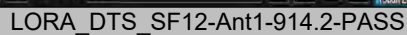
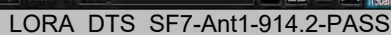


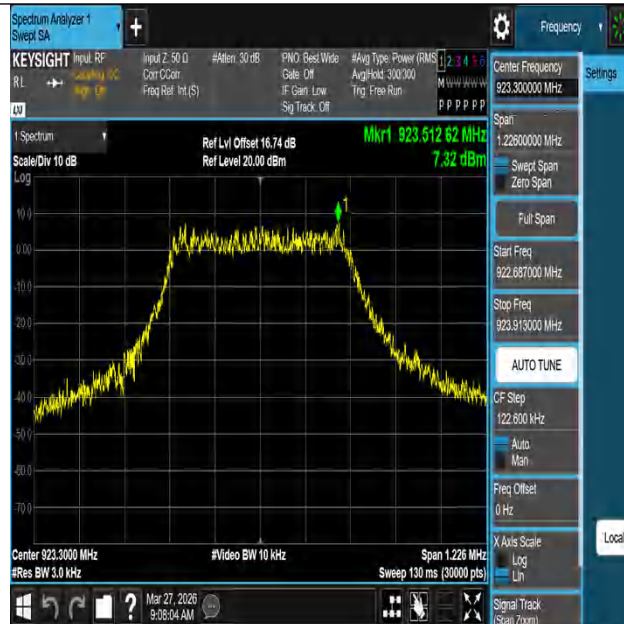


LORA DTS_SF7-Ant1-907.8-PASS

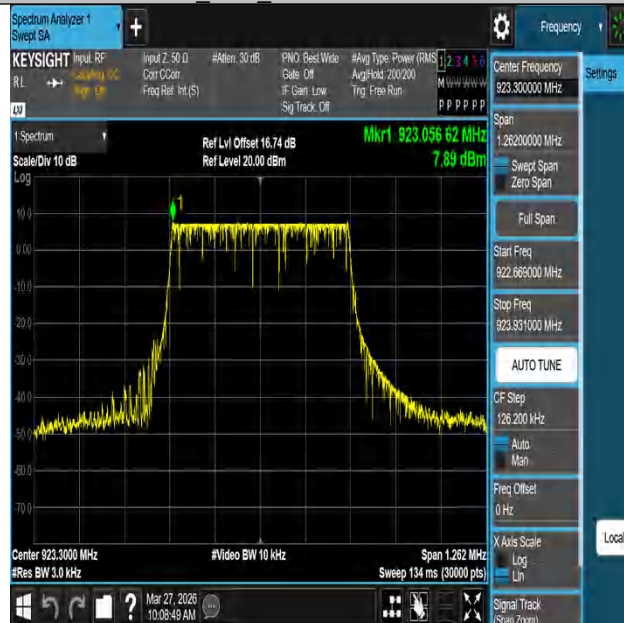


LORA DTS_SF12-Ant1-907.8-PASS

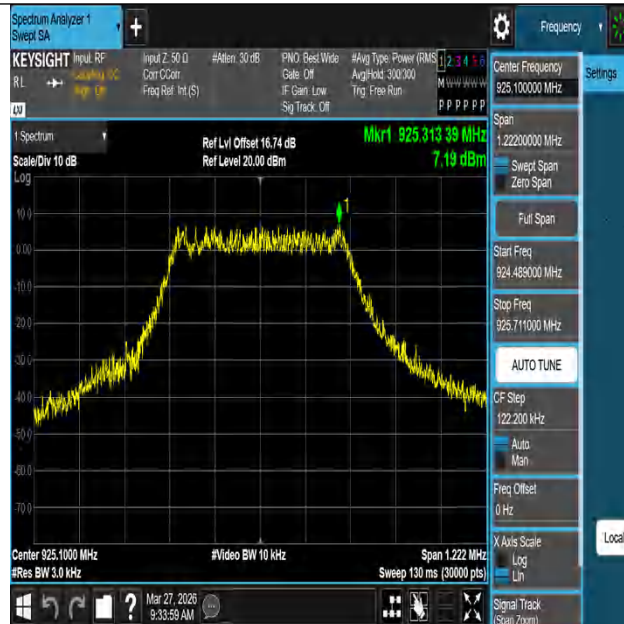




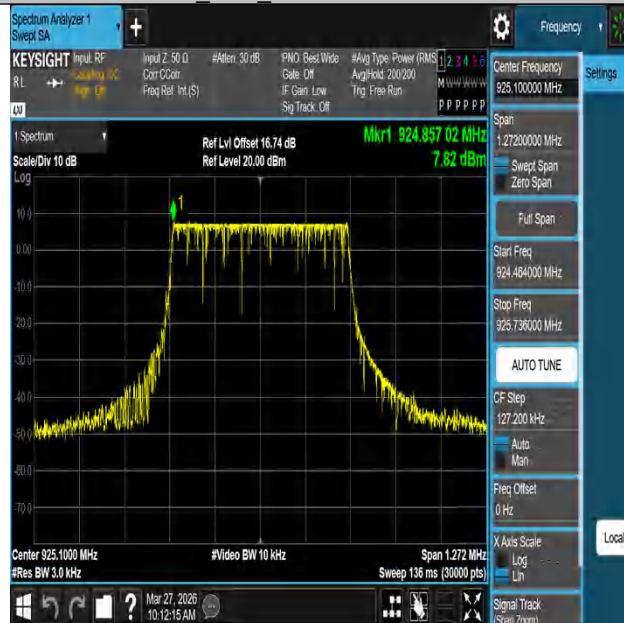
LORA_DTS_SF7-Ant1-923.3-PASS



LORA_DTS_SF12-Ant1-923.3-PASS



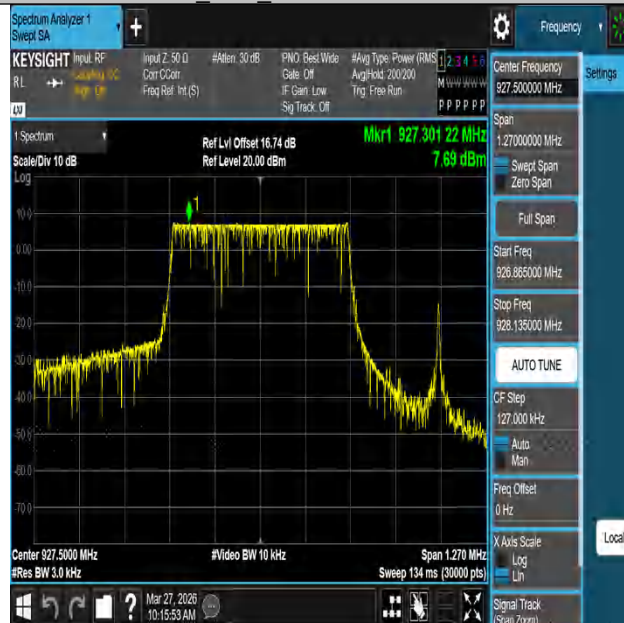
LORA_DTS_SF7-Ant1-925.1-PASS



LORA_DTS_SF12-Ant1-925.1-PASS



LORA_DTS_SF7-Ant1-927.5-PASS



LORA_DTS_SF12-Ant1-927.5-PASS

Appendix A.4: Test Results of Band Edge Measurements

Test Result

Both LoRa transmitters 1 and 2 tested, only the worst-case reported.

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
LORA_DTS_SF7	Ant1	Low	903	20.10	-29.95	≤0.1	PASS
LORA_DTS_SF12	Ant1	Low	903	9.98	-32.08	≤-10.02	PASS
LORA_DTS_SF7	Ant1	High	914.2	19.80	-31.17	≤-0.2	PASS
LORA_DTS_SF12	Ant1	High	914.2	9.58	-32.97	≤-10.42	PASS
LORA_DTS_SF7	Ant1	Low	923.3	19.47	-31.71	≤-0.53	PASS
LORA_DTS_SF12	Ant1	Low	923.3	11.12	-31.46	≤-8.88	PASS
LORA_DTS_SF7	Ant1	High	927.5	16.78	-4.04	≤-3.22	PASS
LORA_DTS_SF12	Ant1	High	927.5	10.91	-13.49	≤-9.09	PASS

Test Graphs



LORA DTS_SF7-Ant1-903-PASS



LORA DTS_SF12-Ant1-903-PASS



LORA DTS SF7-Ant1-914.2-PASS



LORA DTS SF12-Ant1-914.2-PASS



LORA DTS SF7-Ant1-923.3-PASS



LORA DTS SF12-Ant1-923.3-PASS



LORA_DTS_SF7-Ant1-927.5-PASS



LORA_DTS_SF12-Ant1-927.5-PASS

Appendix A.5: Test Results of Conducted Spurious Emission

Test Result

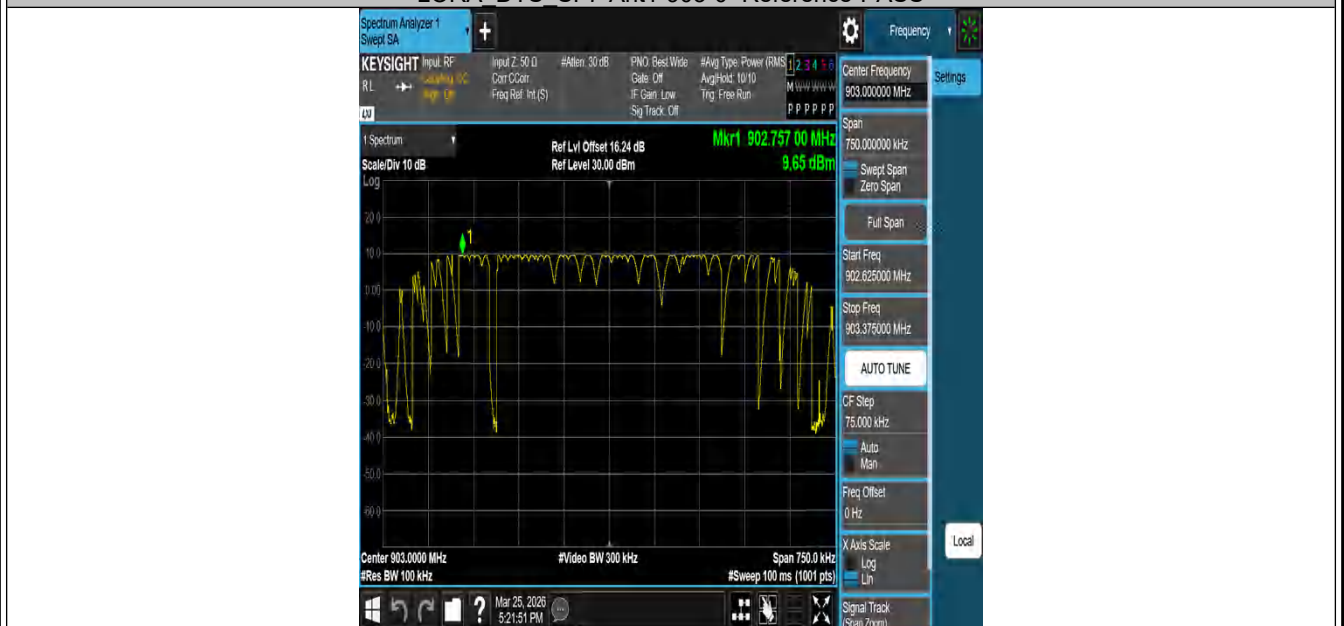
Both LoRa transmitters 1 and 2 tested, only the worst-case reported.

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
LORA_DTS_SF7	Ant1	903	0~Reference	19.68	19.68	---	PASS
LORA_DTS_SF12	Ant1	903	0~Reference	9.65	9.65	---	PASS
LORA_DTS_SF7	Ant1	903	30~1000	19.68	-32.67	≤-0.32	PASS
LORA_DTS_SF12	Ant1	903	30~1000	9.65	-33.93	≤-10.35	PASS
LORA_DTS_SF7	Ant1	903	1000~26500	19.68	-35.8	≤-0.32	PASS
LORA_DTS_SF12	Ant1	903	1000~26500	9.65	-36.73	≤-10.35	PASS
LORA_DTS_SF7	Ant1	907.8	0~Reference	19.56	19.56	---	PASS
LORA_DTS_SF12	Ant1	907.8	0~Reference	9.41	9.41	---	PASS
LORA_DTS_SF7	Ant1	907.8	30~1000	19.56	-33.06	≤-0.44	PASS
LORA_DTS_SF12	Ant1	907.8	30~1000	9.41	-33.73	≤-10.59	PASS
LORA_DTS_SF7	Ant1	907.8	1000~26500	19.56	-35.78	≤-0.44	PASS
LORA_DTS_SF12	Ant1	907.8	1000~26500	9.41	-35.96	≤-10.59	PASS
LORA_DTS_SF7	Ant1	914.2	0~Reference	19.33	19.33	---	PASS
LORA_DTS_SF12	Ant1	914.2	0~Reference	9.19	9.19	---	PASS
LORA_DTS_SF7	Ant1	914.2	30~1000	19.33	-33.21	≤-0.67	PASS
LORA_DTS_SF12	Ant1	914.2	30~1000	9.19	-34.3	≤-10.81	PASS
LORA_DTS_SF7	Ant1	914.2	1000~26500	19.33	-36.6	≤-0.67	PASS
LORA_DTS_SF12	Ant1	914.2	1000~26500	9.19	-36.05	≤-10.81	PASS
LORA_DTS_SF7	Ant1	923.3	0~Reference	18.97	18.97	---	PASS
LORA_DTS_SF12	Ant1	923.3	0~Reference	10.73	10.73	---	PASS
LORA_DTS_SF7	Ant1	923.3	30~1000	18.97	-34.01	≤-1.03	PASS
LORA_DTS_SF12	Ant1	923.3	30~1000	10.73	-33.52	≤-9.27	PASS
LORA_DTS_SF7	Ant1	923.3	1000~26500	18.97	-36.41	≤-1.03	PASS
LORA_DTS_SF12	Ant1	923.3	1000~26500	10.73	-37.01	≤-9.27	PASS
LORA_DTS_SF7	Ant1	925.1	0~Reference	18.88	18.88	---	PASS
LORA_DTS_SF12	Ant1	925.1	0~Reference	10.65	10.65	---	PASS
LORA_DTS_SF7	Ant1	925.1	30~1000	18.88	-33.16	≤-1.12	PASS
LORA_DTS_SF12	Ant1	925.1	30~1000	10.65	-33.49	≤-9.35	PASS
LORA_DTS_SF7	Ant1	925.1	1000~26500	18.88	-35.95	≤-1.12	PASS
LORA_DTS_SF12	Ant1	925.1	1000~26500	10.65	-35.89	≤-9.35	PASS
LORA_DTS_SF7	Ant1	927.5	0~Reference	16.30	16.30	---	PASS
LORA_DTS_SF12	Ant1	927.5	0~Reference	10.51	10.51	---	PASS
LORA_DTS_SF7	Ant1	927.5	30~1000	16.30	-33.2	≤-3.7	PASS
LORA_DTS_SF12	Ant1	927.5	30~1000	10.51	-33.7	≤-9.49	PASS
LORA_DTS_SF7	Ant1	927.5	1000~26500	16.30	-36.02	≤-3.7	PASS
LORA_DTS_SF12	Ant1	927.5	1000~26500	10.51	-35.97	≤-9.49	PASS

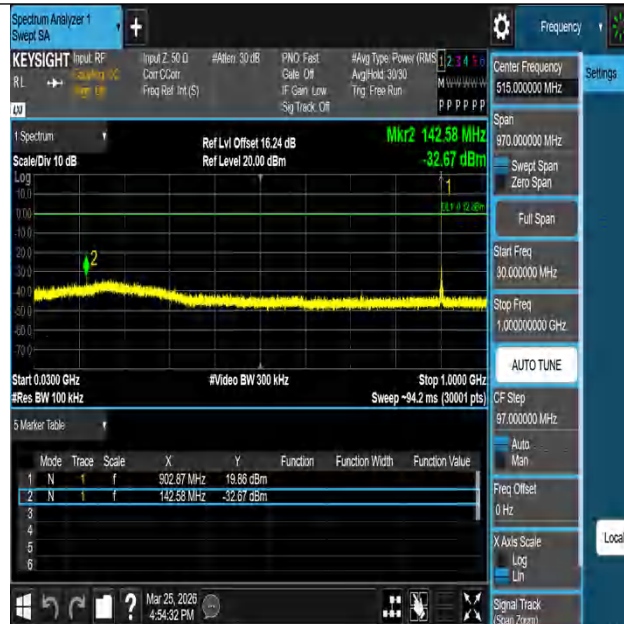
Test Graphs



LORA DTS SF7-Ant1-903-0~Reference-PASS



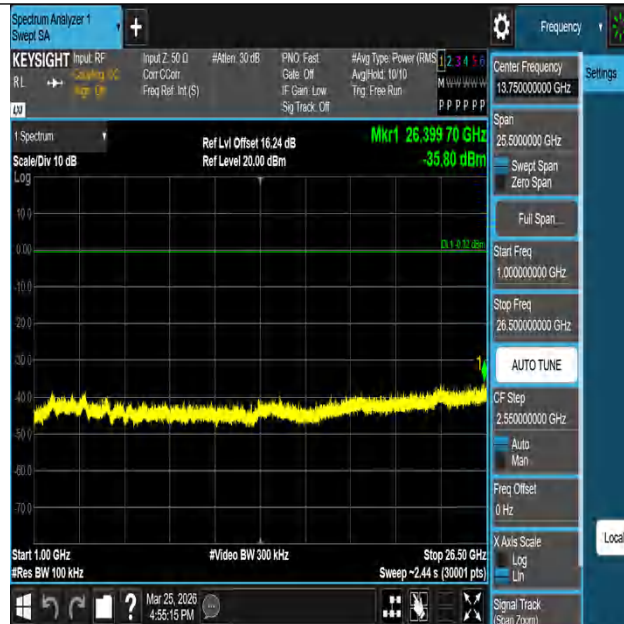
LORA DTS SF12-Ant1-903-0~Reference-PASS



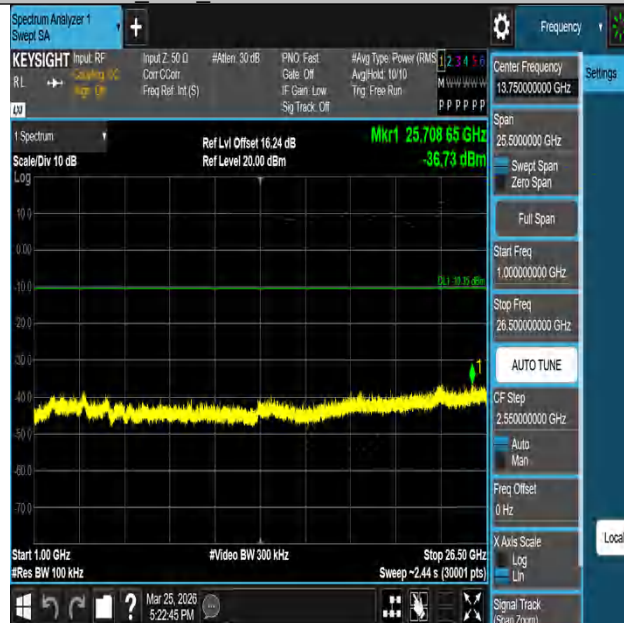
LORA_DTS_SF7-Ant1-903-30~1000-PASS



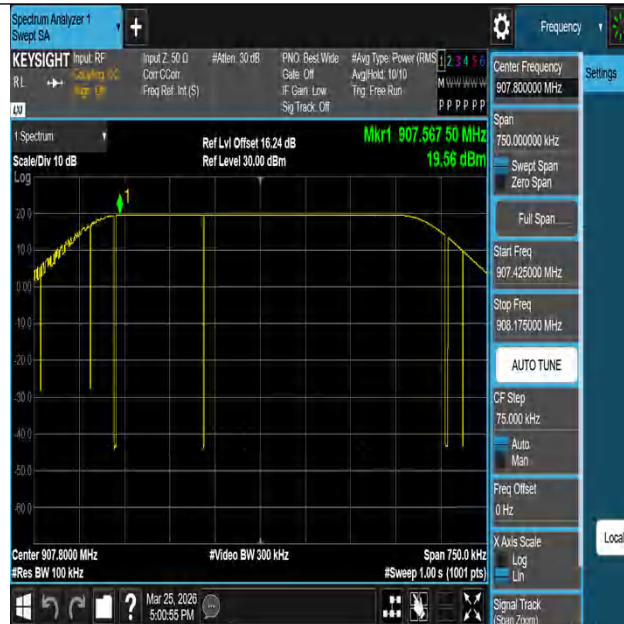
LORA_DTS_SF12-Ant1-903-30~1000-PASS



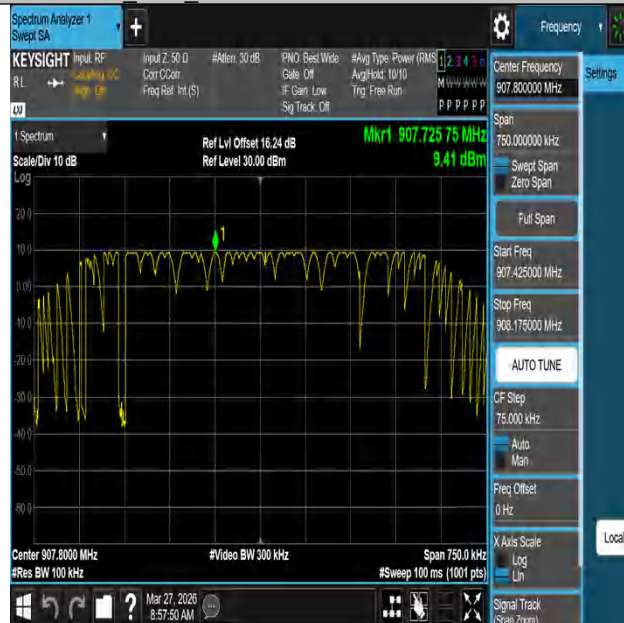
LORA_DTS_SF7-Ant1-903-1000~26500-PASS



LORA_DTS_SF12-Ant1-903-1000~26500-PASS



LORA_DTS_SF7-Ant1-907.8-0~Reference-PASS



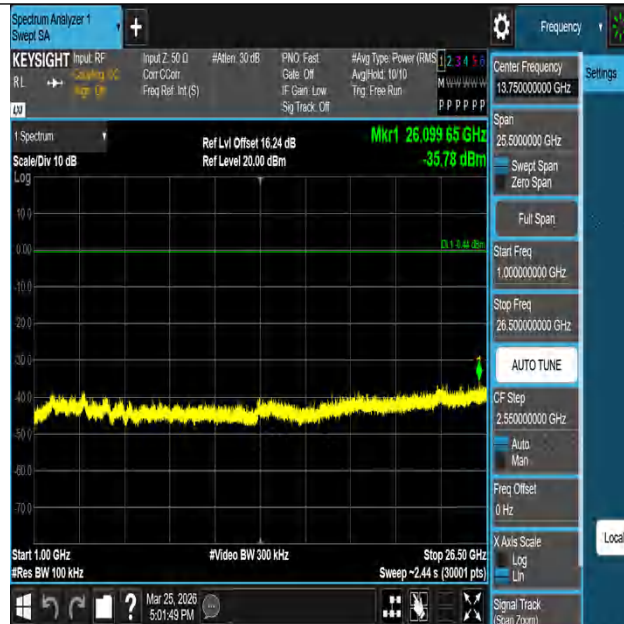
LORA_DTS_SF12-Ant1-907.8-0~Reference-PASS



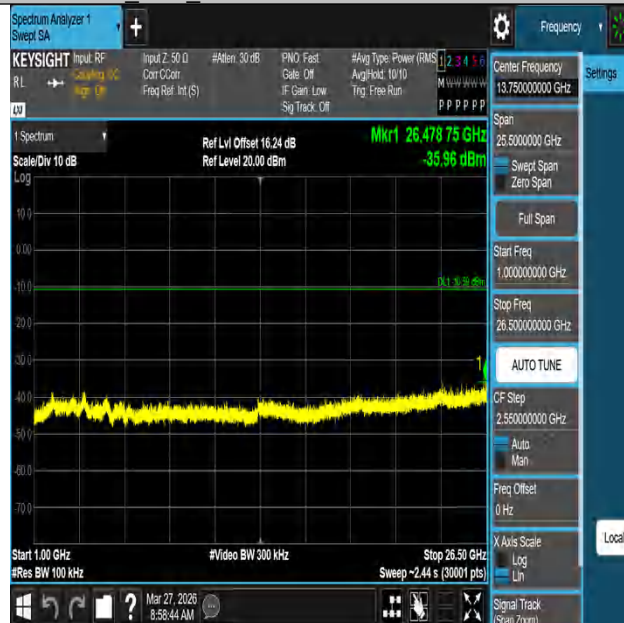
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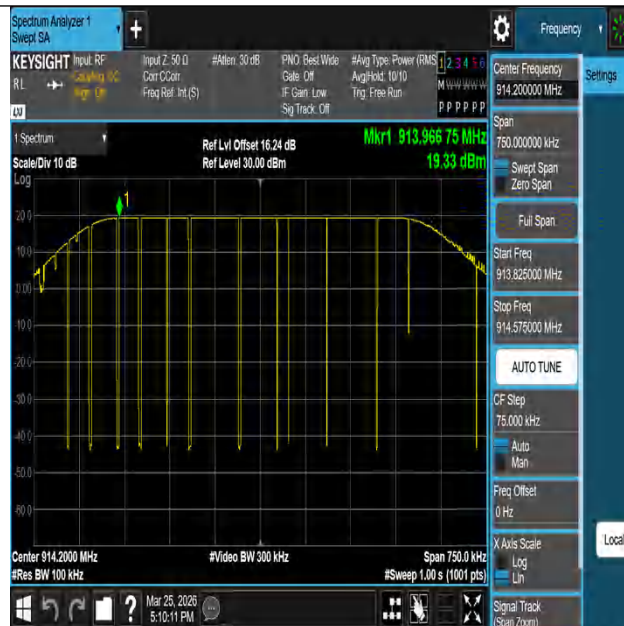
LORA_DTS_SF12-Ant1-907.8-30~1000-PASS



LORA_DTS_SF7-Ant1-907.8-1000~26500-PASS



LORA_DTS_SF12-Ant1-907.8-1000~26500-PASS



LORA_DTS_SF7-Ant1-914.2-0~Reference-PASS



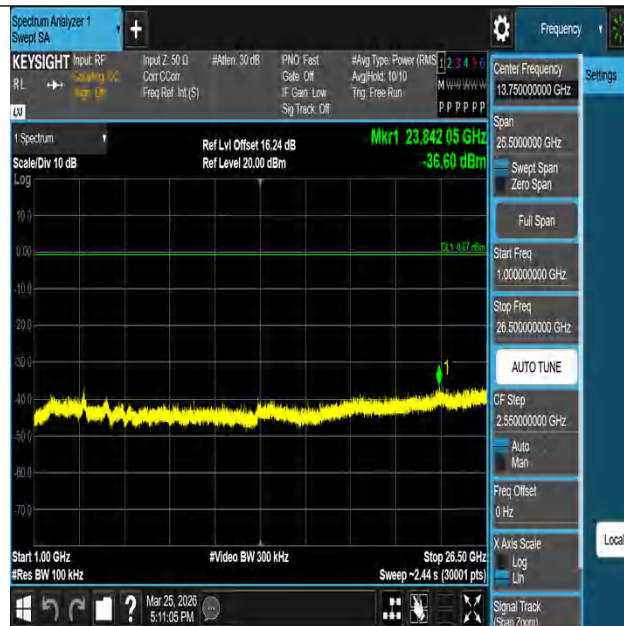
LORA_DTS_SF12-Ant1-914.2-0~Reference-PASS



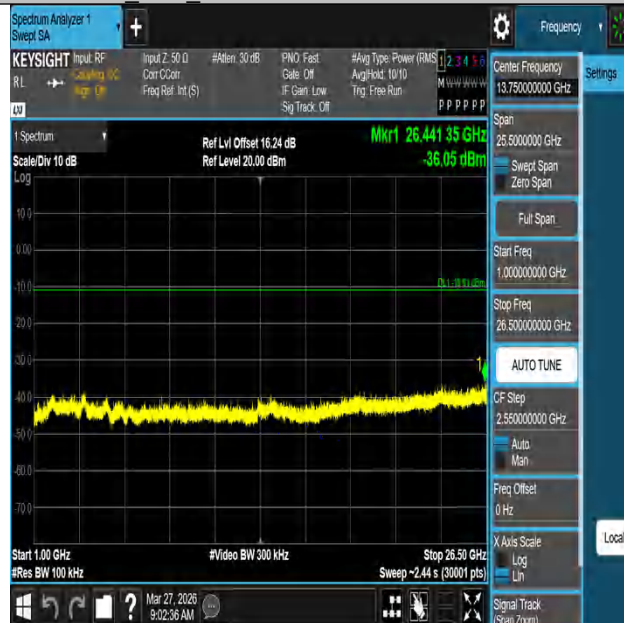
LORA_DTS_SF7-Ant1-914.2-30~1000-PASS



LORA_DTS_SF12-Ant1-914.2-30~1000-PASS



LORA_DTS_SF7-Ant1-914.2-1000~26500-PASS



LORA_DTS_SF12-Ant1-914.2-1000~26500-PASS



LORA_DTS_SF7-Ant1-923.3-0~Reference-PASS



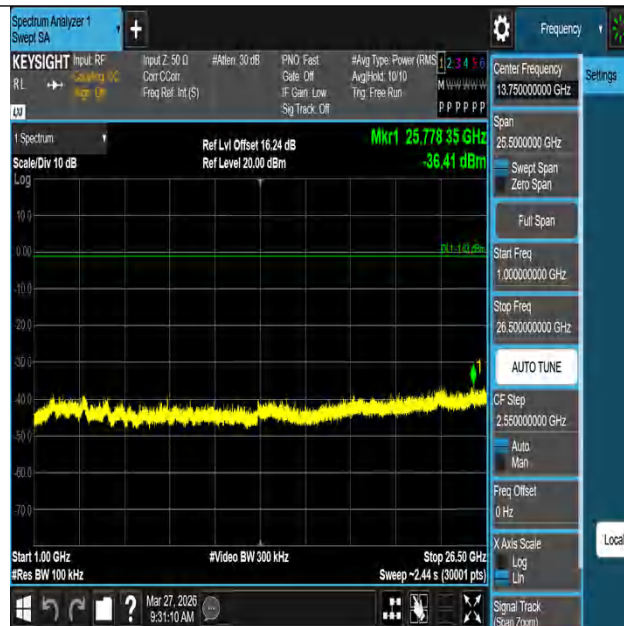
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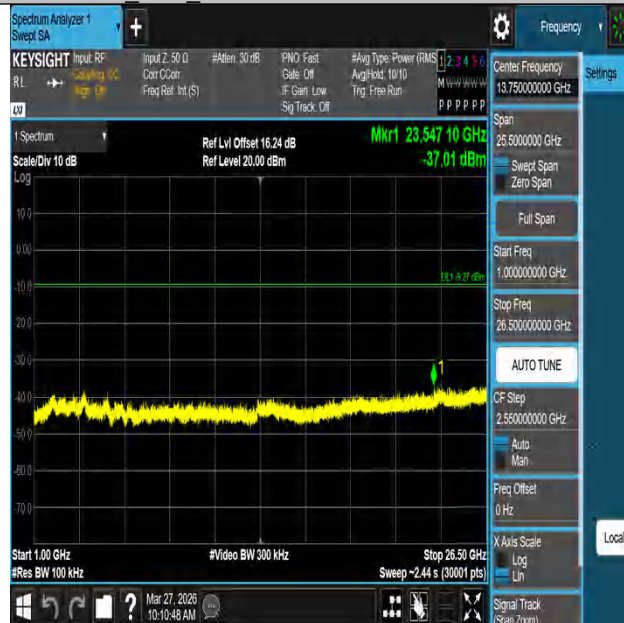
LORA_DTS_SF7-Ant1-923.3-30~1000-PASS



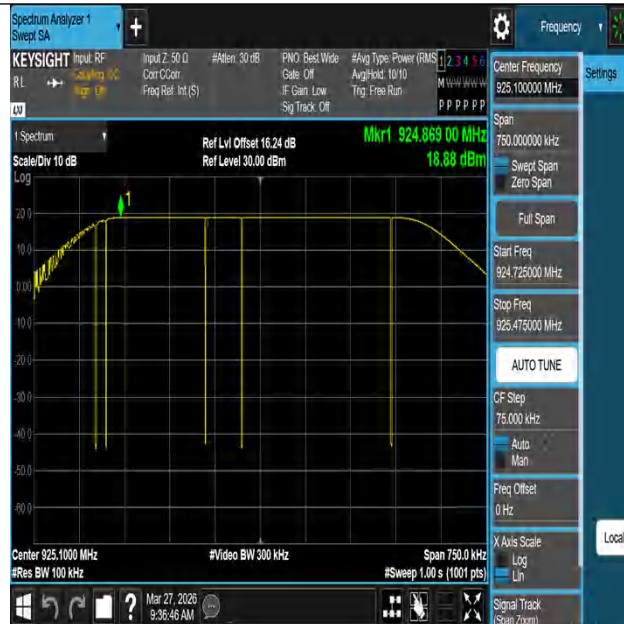
LORA_DTS_SF12-Ant1-923.3-30~1000-PASS



LORA_DTS_SF7-Ant1-923.3-1000~26500-PASS



LORA_DTS_SF12-Ant1-923.3-1000~26500-PASS



LORA_DTS_SF7-Ant1-925.1-0~Reference-PASS



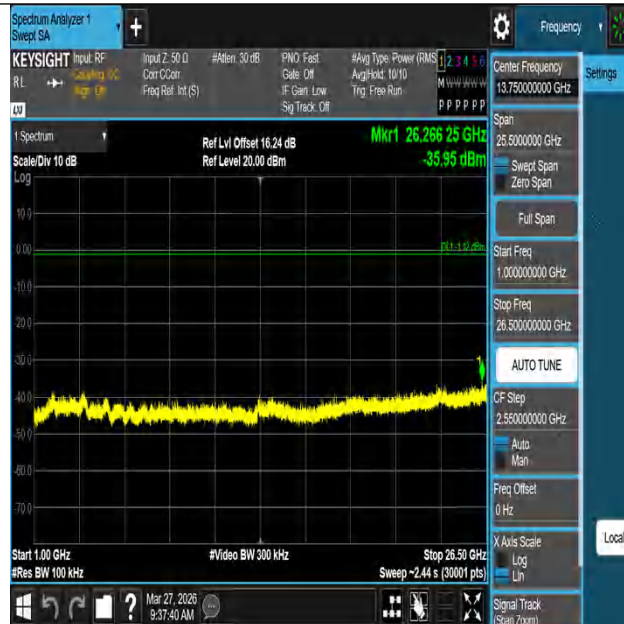
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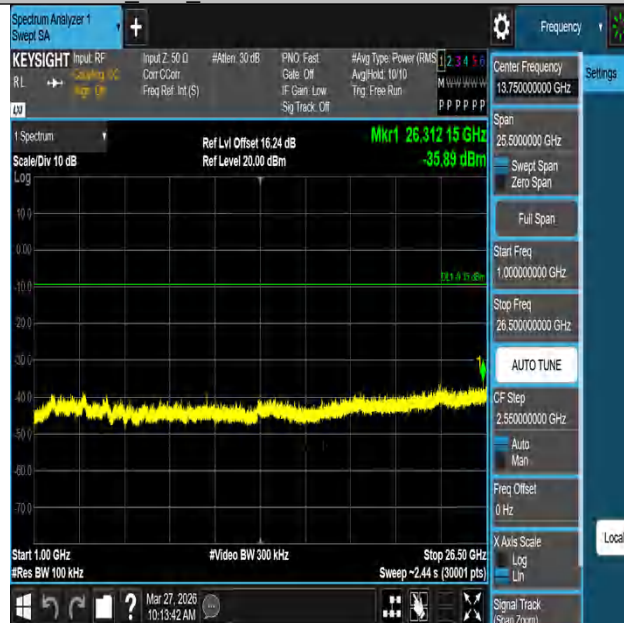
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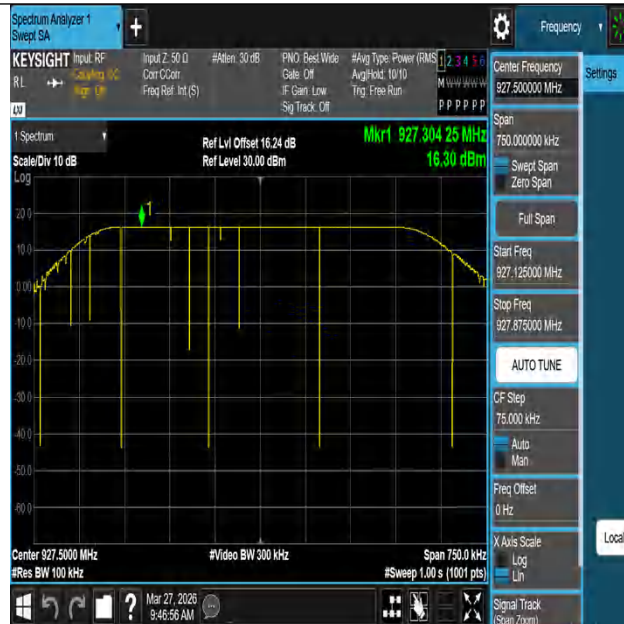
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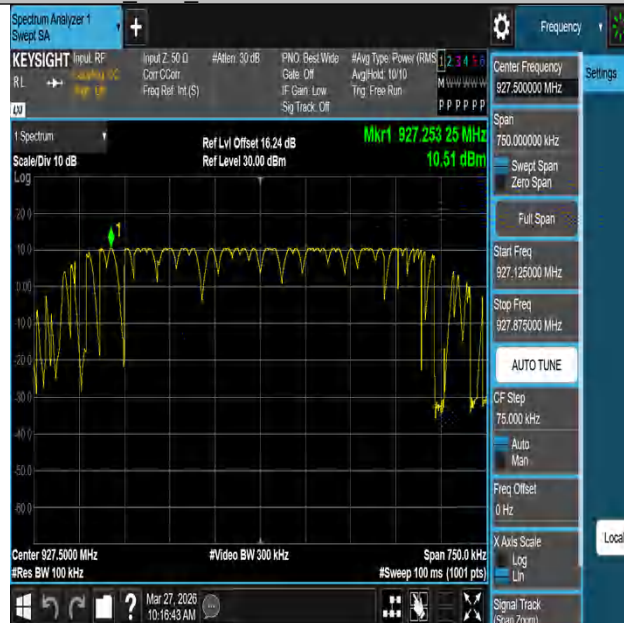
LORA_DTS_SF7-Ant1-925.1-1000~26500-PASS



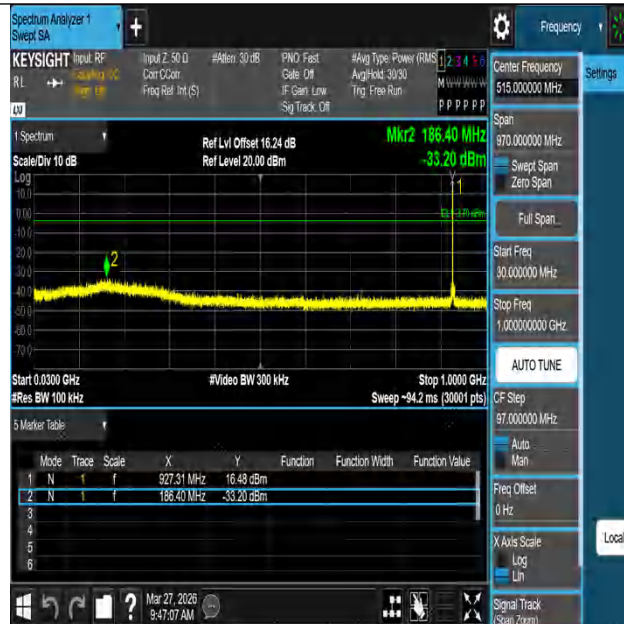
LORA_DTS_SF12-Ant1-925.1-1000~26500-PASS



LORA_DTS_SF7-Ant1-927.5-0~Reference-PASS



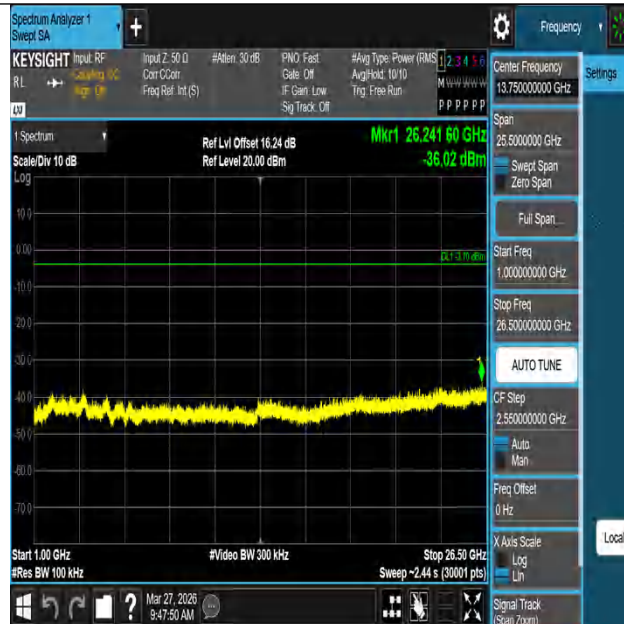
LORA_DTS_SF12-Ant1-927.5-0~Reference-PASS



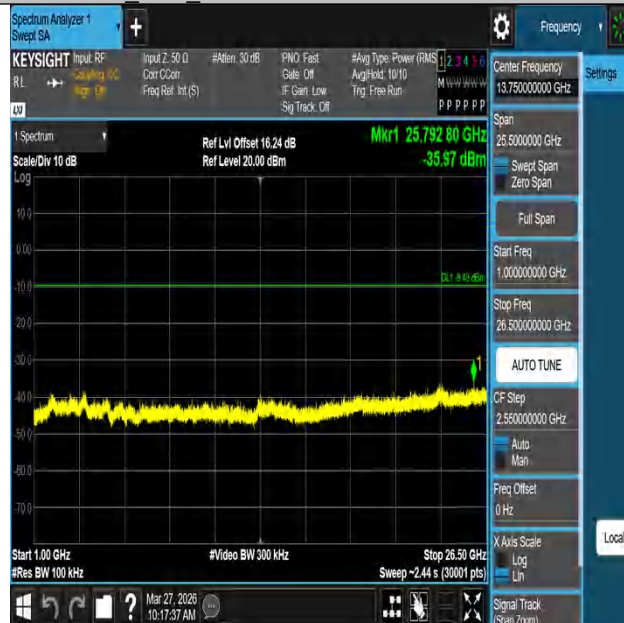
LORA_DTS_SF7-Ant1-927.5-30~1000-PASS



LORA_DTS_SF12-Ant1-927.5-30~1000-PASS



LORA_DTS_SF7-Ant1-927.5-1000~26500-PASS



LORA_DTS_SF12-Ant1-927.5-1000~26500-PASS

Appendix A.6: Test Results of Radiated Spurious Emissions

Note:

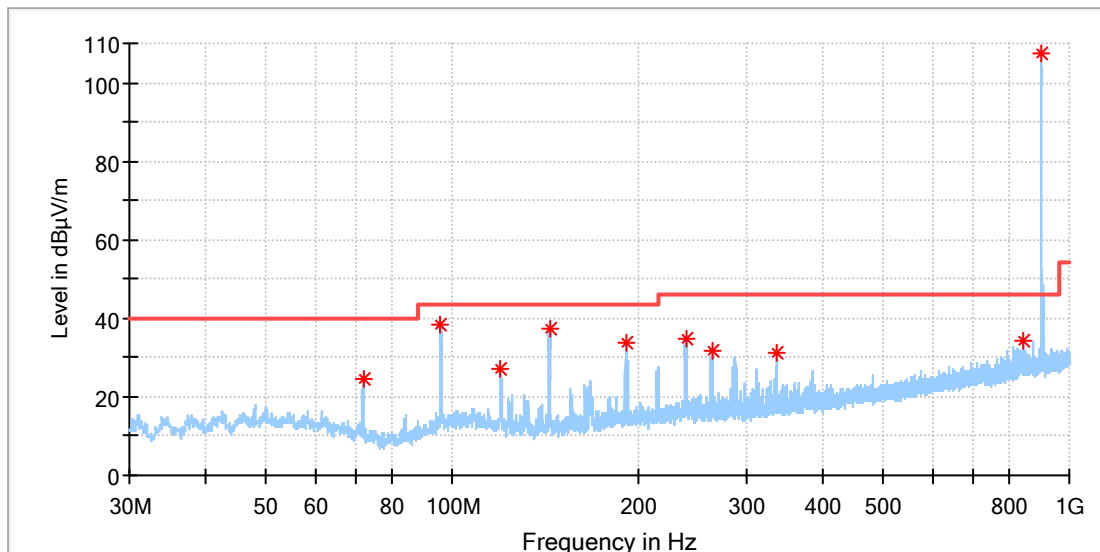
- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.
- 3) Both LoRa transmitters 1 and 2 tested, only the worst-case reported.

30 MHz - 1GHz

Note: The highest waveform in the figure is Lora Fundamental.

EUT Information

EUT Name:	AiMOGA Mornine
Model:	M1
Test Mode:	Lora DTS 500K_SF7_903MHz
Order No/Sample No:	168584456/A004209761-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

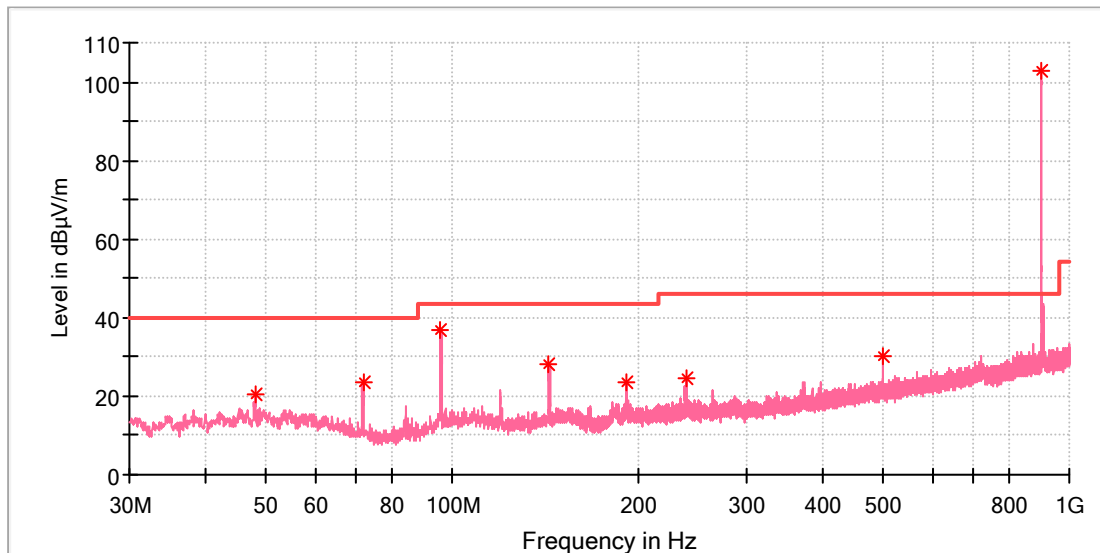


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
71.763889	24.68	40.00	15.32	100.0	H	37.0	-22.5
95.906111	38.16	43.50	5.34	100.0	H	29.0	-19.7
119.671111	27.24	43.50	16.26	100.0	H	6.0	-20.8
143.975000	37.40	43.50	6.10	100.0	H	190.0	-22.4
191.936111	33.58	43.50	9.92	100.0	H	21.0	-19.5
239.951111	34.94	46.00	11.06	100.0	H	37.0	-17.7
263.931667	31.91	46.00	14.09	100.0	H	42.0	-17.1
335.927222	31.03	46.00	14.97	100.0	H	49.0	-15.2
842.806111	34.20	46.00	11.80	100.0	H	323.0	-5.5
903.000000	107.34	---	---	100.0	H	265.0	-4.8

EUT Information

EUT Name: AiMOGA Mornine
Model: M1
Test Mode: Lora DTS 500K_SF7_903MHz
Order No/Sample No: 168584456/A004209761-008
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

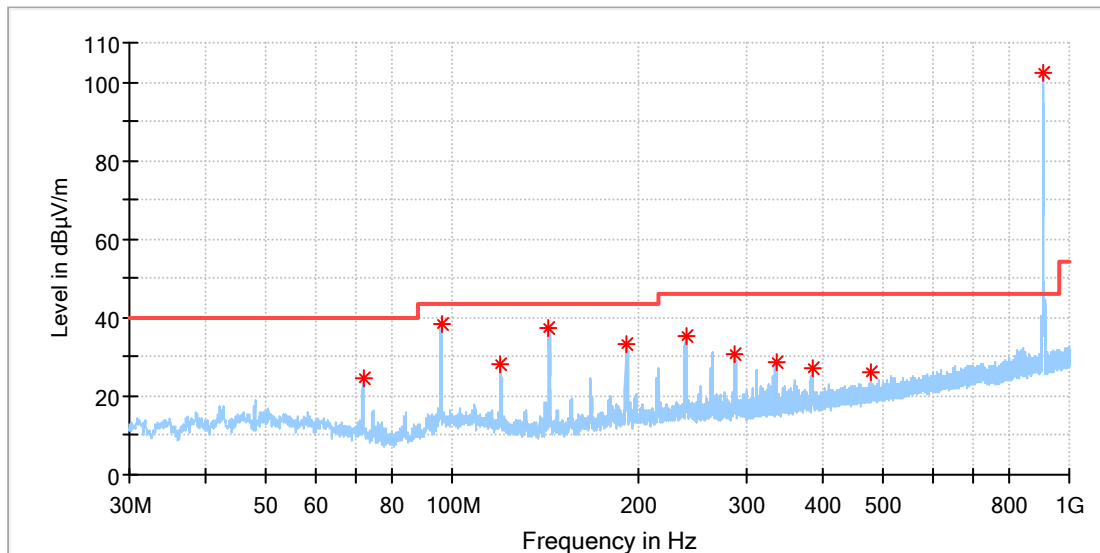
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.945000	20.57	40.00	19.43	100.0	V	79.0	-18.5
71.763889	23.69	40.00	16.31	100.0	V	92.0	-22.5
95.528889	36.69	43.50	6.81	100.0	V	114.0	-19.8
143.490000	28.25	43.50	15.25	100.0	V	324.0	-22.4
191.127778	23.36	43.50	20.14	100.0	V	61.0	-19.6
239.951111	24.46	46.00	21.54	100.0	V	336.0	-17.7
498.671667	29.96	46.00	16.04	100.0	V	188.0	-11.9
903.053889	102.91	---	---	100.0	V	191.0	-4.8

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: AiMOGA Mornine
Model: M1
Test Mode: Lora DTS 500K_SF7_907.8MHz
Order No/Sample No: 168584456/A004209761-008
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

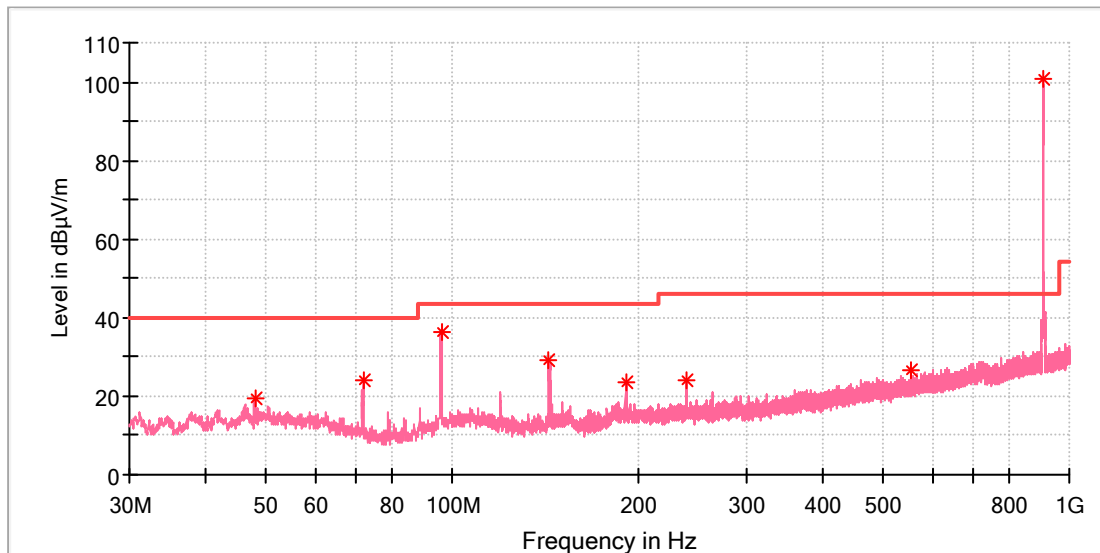
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
71.763889	24.75	40.00	15.25	100.0	H	49.0	-22.5
96.013889	38.13	43.50	5.37	100.0	H	30.0	-19.7
119.994444	28.03	43.50	15.47	100.0	H	23.0	-20.9
143.490000	37.42	43.50	6.08	100.0	H	187.0	-22.4
190.966111	33.33	43.50	10.17	100.0	H	38.0	-19.6
240.005000	35.53	46.00	10.47	100.0	H	42.0	-17.7
287.750556	30.78	46.00	15.22	100.0	H	30.0	-16.6
335.118889	28.65	46.00	17.35	100.0	H	53.0	-15.2
382.756667	26.98	46.00	19.02	100.0	H	53.0	-14.2
478.355556	26.02	46.00	19.98	100.0	H	312.0	-12.2
908.011667	102.51	---	---	100.0	H	308.0	-4.7

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: AiMOGA Mornine
Model: M1
Test Mode: Lora DTS 500K_SF7_907.8MHz
Order No/Sample No: 168584456/A004209761-008
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

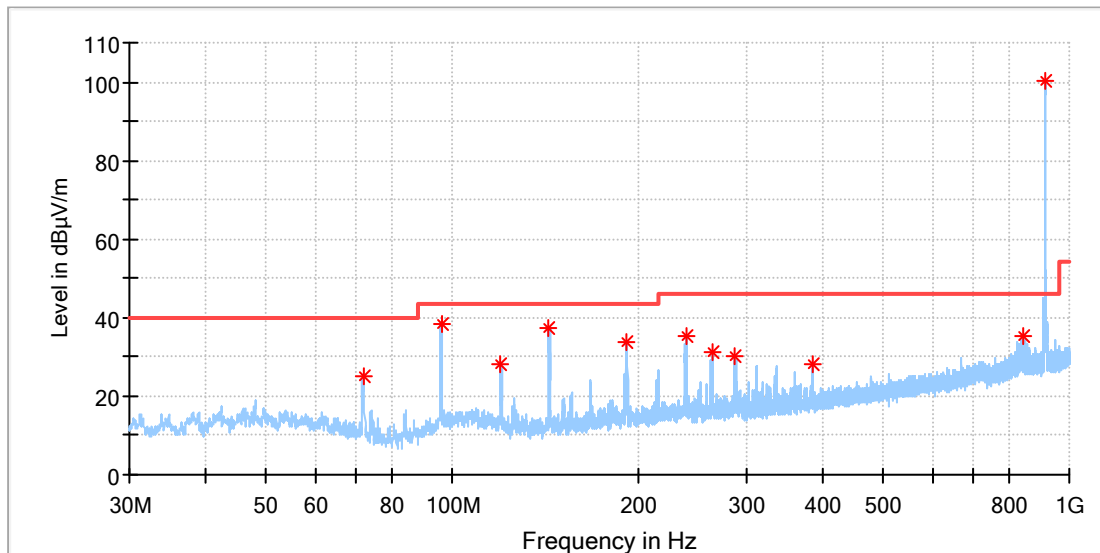
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.945000	19.69	40.00	20.31	100.0	V	13.0	-18.5
71.763889	23.90	40.00	16.10	100.0	V	85.0	-22.5
96.013889	36.19	43.50	7.31	100.0	V	134.0	-19.7
143.651667	29.10	43.50	14.40	100.0	V	334.0	-22.4
191.505000	23.73	43.50	19.77	100.0	V	137.0	-19.5
239.142778	23.97	46.00	22.03	100.0	V	9.0	-17.8
552.506667	26.42	46.00	19.58	100.0	V	339.0	-10.7
907.634444	101.05	---	---	100.0	V	170.0	-4.7

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: AiMOGA Mornine
Model: M1
Test Mode: Lora DTS 500K_SF7_914.2MHz
Order No/Sample No: 168584456/A004209761-008
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

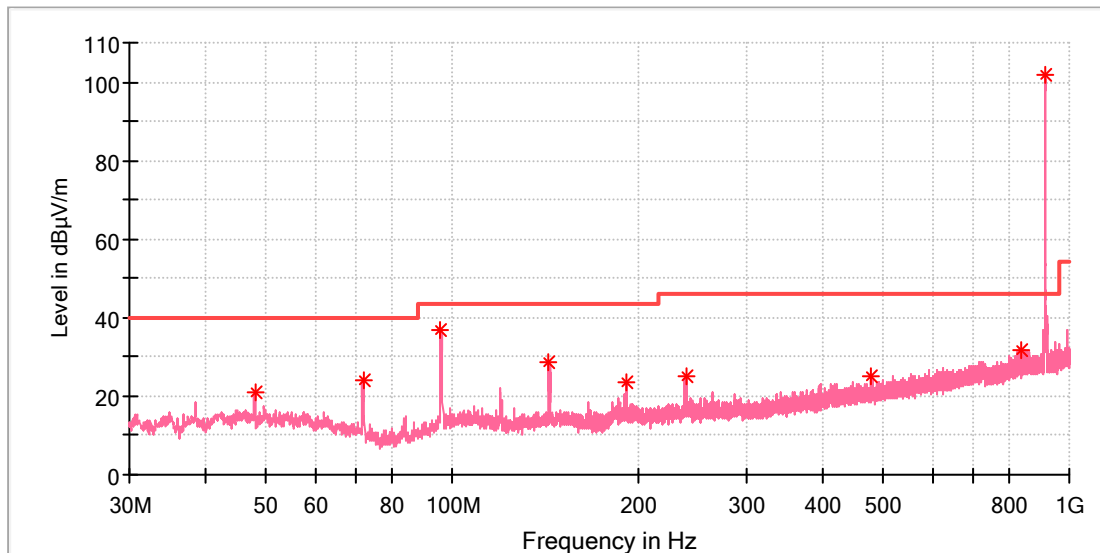
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
71.763889	24.87	40.00	15.13	100.0	H	53.0	-22.5
96.013889	38.16	43.50	5.34	100.0	H	37.0	-19.7
119.994444	27.90	43.50	15.60	100.0	H	21.0	-20.9
143.490000	37.36	43.50	6.14	100.0	H	198.0	-22.4
191.990000	33.55	43.50	9.95	100.0	H	29.0	-19.5
239.789444	35.07	46.00	10.93	100.0	H	33.0	-17.7
263.985556	31.16	46.00	14.84	100.0	H	33.0	-17.1
287.804444	30.32	46.00	15.68	100.0	H	33.0	-16.6
383.618889	27.91	46.00	18.09	100.0	H	33.0	-14.2
842.105556	35.12	46.00	10.88	100.0	H	264.0	-5.5
914.262778	100.51	---	---	100.0	H	122.0	-4.6

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: AiMOGA Mornine
Model: M1
Test Mode: Lora DTS 500K_SF7_914.2MHz
Order No/Sample No: 168584456/A004209761-008
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

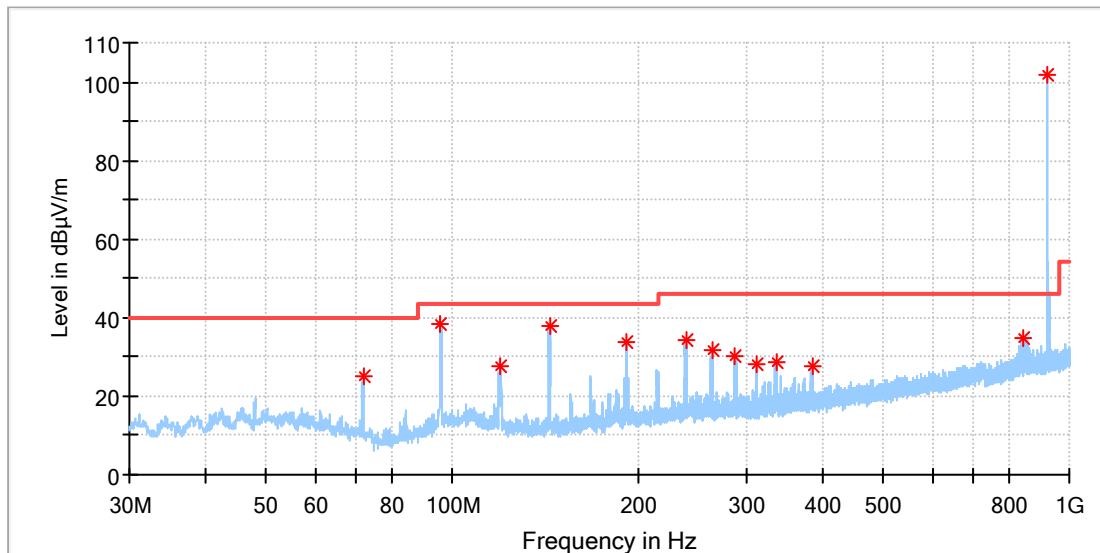
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.945000	20.96	40.00	19.04	100.0	V	97.0	-18.5
71.925556	24.14	40.00	15.86	100.0	V	125.0	-22.5
95.690556	36.60	43.50	6.90	100.0	V	139.0	-19.7
143.651667	28.50	43.50	15.00	100.0	V	0.0	-22.4
191.990000	23.70	43.50	19.80	100.0	V	109.0	-19.5
240.005000	25.15	46.00	20.85	100.0	V	337.0	-17.7
478.409444	24.92	46.00	21.08	100.0	V	255.0	-12.2
833.375556	31.77	46.00	14.23	100.0	V	219.0	-5.6
914.047222	101.77	---	---	100.0	V	289.0	-4.6

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: AiMOGA Mornine
Model: M1
Test Mode: Lora DTS 500K_SF7_923.3MHz
Order No/Sample No: 168584456/A004209761-008
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

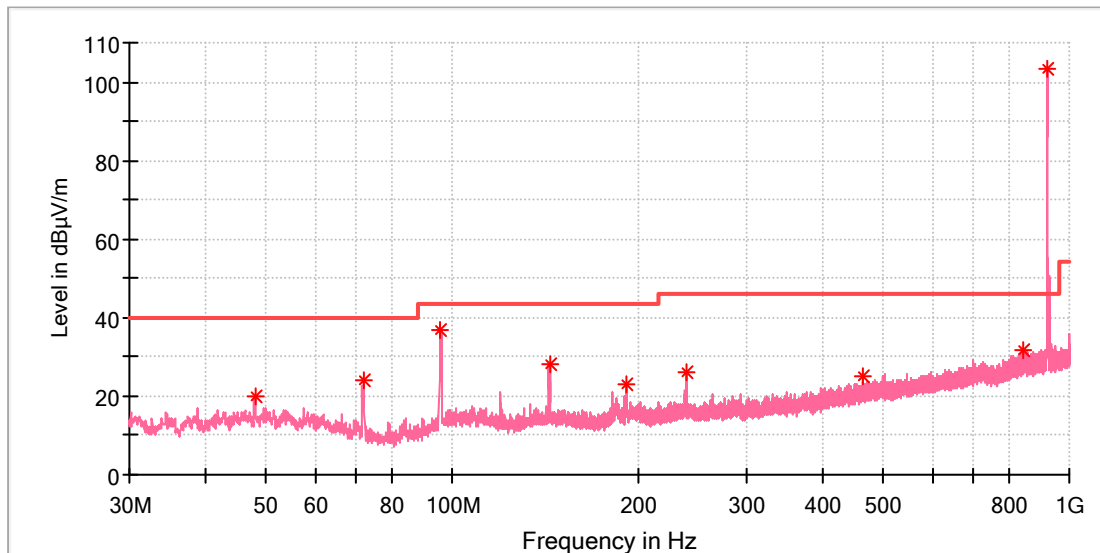
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
71.925556	24.89	40.00	15.11	100.0	H	40.0	-22.5
95.582778	38.30	43.50	5.20	100.0	H	32.0	-19.8
119.994444	27.84	43.50	15.66	100.0	H	187.0	-20.9
144.028889	37.68	43.50	5.82	100.0	H	206.0	-22.4
191.828333	33.59	43.50	9.91	100.0	H	44.0	-19.5
238.927222	34.52	46.00	11.48	100.0	H	190.0	-17.8
263.985556	31.68	46.00	14.32	100.0	H	32.0	-17.1
287.804444	29.96	46.00	16.04	100.0	H	25.0	-16.6
312.000556	28.37	46.00	17.63	100.0	H	47.0	-16.0
336.035000	28.76	46.00	17.24	100.0	H	44.0	-15.1
384.050000	27.70	46.00	18.30	100.0	H	37.0	-14.1
843.075556	34.89	46.00	11.11	100.0	H	153.0	-5.5
923.316111	101.87	---	---	100.0	H	146.0	-4.6

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: AiMOGA Mornine
Model: M1
Test Mode: Lora DTS 500K_SF7_923.3MHz
Order No/Sample No: 168584456/A004209761-008
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

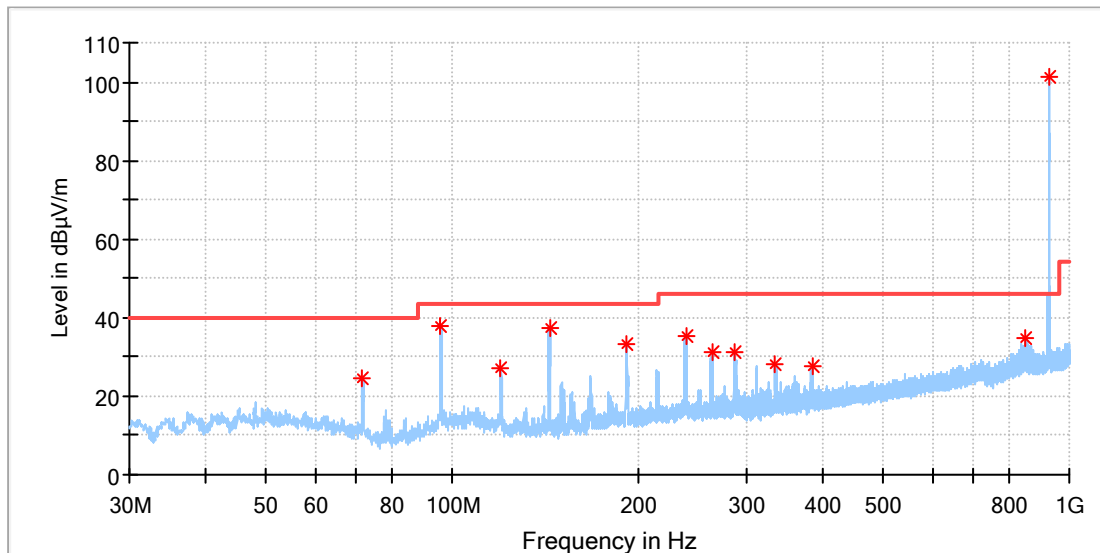
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.998889	20.17	40.00	19.83	100.0	V	338.0	-18.5
71.925556	23.94	40.00	16.06	100.0	V	107.0	-22.5
95.582778	36.76	43.50	6.74	100.0	V	149.0	-19.8
143.867222	28.10	43.50	15.40	100.0	V	324.0	-22.4
191.505000	22.80	43.50	20.70	100.0	V	118.0	-19.5
239.358333	25.89	46.00	20.11	100.0	V	6.0	-17.7
461.434444	24.92	46.00	21.08	100.0	V	6.0	-12.5
841.458889	31.79	46.00	14.21	100.0	V	321.0	-5.5
923.100556	103.57	---	---	100.0	V	185.0	-4.6

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: AiMOGA Mornine
Model: M1
Test Mode: Lora DTS 500K_SF7_925.1MHz
Order No/Sample No: 168584456/A004209761-008
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

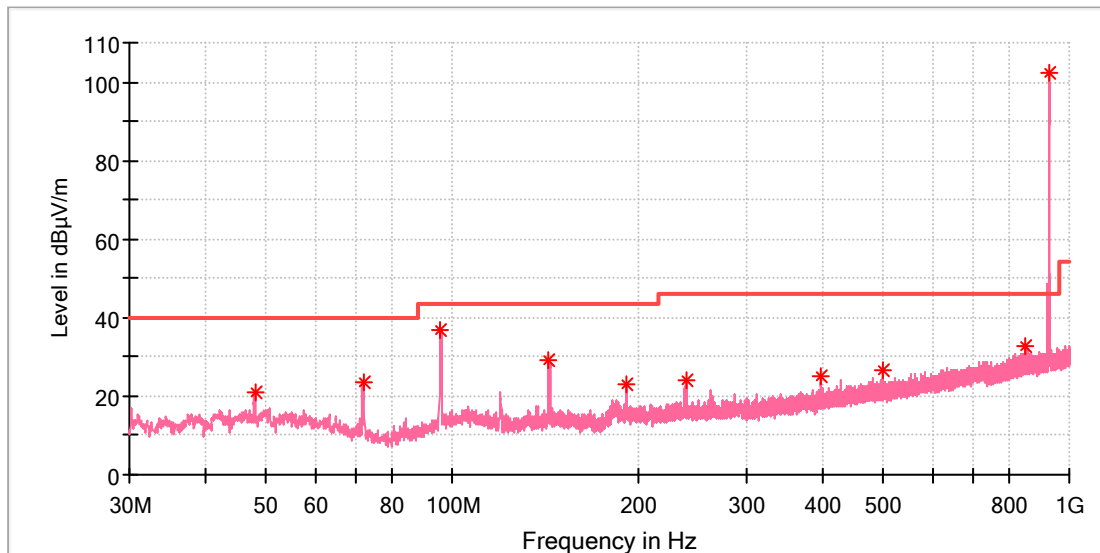
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
71.602222	24.38	40.00	15.62	100.0	H	33.0	-22.4
95.906111	38.08	43.50	5.42	100.0	H	37.0	-19.7
119.994444	27.26	43.50	16.24	100.0	H	33.0	-20.9
144.028889	37.51	43.50	5.99	100.0	H	193.0	-22.4
191.882222	33.35	43.50	10.15	100.0	H	29.0	-19.5
239.466111	35.19	46.00	10.81	100.0	H	33.0	-17.7
264.039444	31.13	46.00	14.87	100.0	H	48.0	-17.0
287.804444	31.21	46.00	14.79	100.0	H	37.0	-16.6
334.310556	28.01	46.00	17.99	100.0	H	40.0	-15.2
383.133889	27.67	46.00	18.33	100.0	H	45.0	-14.2
851.212778	34.61	46.00	11.39	100.0	H	176.0	-5.4
925.256111	101.10	---	---	100.0	H	140.0	-4.5

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: AiMOGA Mornine
Model: M1
Test Mode: Lora DTS 500K_SF7_925.1MHz
Order No/Sample No: 168584456/A004209761-008
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

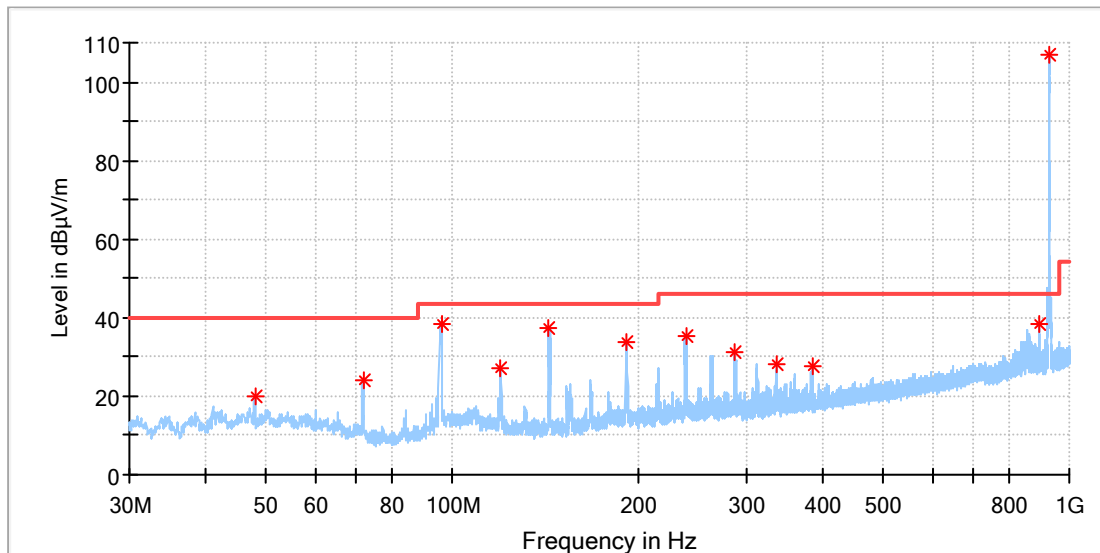
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
48.052778	20.93	40.00	19.07	100.0	V	66.0	-18.5
71.925556	23.60	40.00	16.40	100.0	V	84.0	-22.5
95.744444	36.61	43.50	6.89	100.0	V	108.0	-19.7
143.382222	29.06	43.50	14.44	100.0	V	340.0	-22.4
191.882222	23.11	43.50	20.39	100.0	V	88.0	-19.5
239.789444	24.25	46.00	21.75	100.0	V	0.0	-17.7
394.558333	25.02	46.00	20.98	100.0	V	185.0	-13.9
499.318333	26.65	46.00	19.35	100.0	V	188.0	-11.9
849.326667	32.79	46.00	13.21	100.0	V	188.0	-5.4
924.986667	102.14	---	---	100.0	V	162.0	-4.5

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: AiMOGA Mornine
Model: M1
Test Mode: Lora DTS 500K_SF7_927.5MHz
Order No/Sample No: 168584456/A004209761-008
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

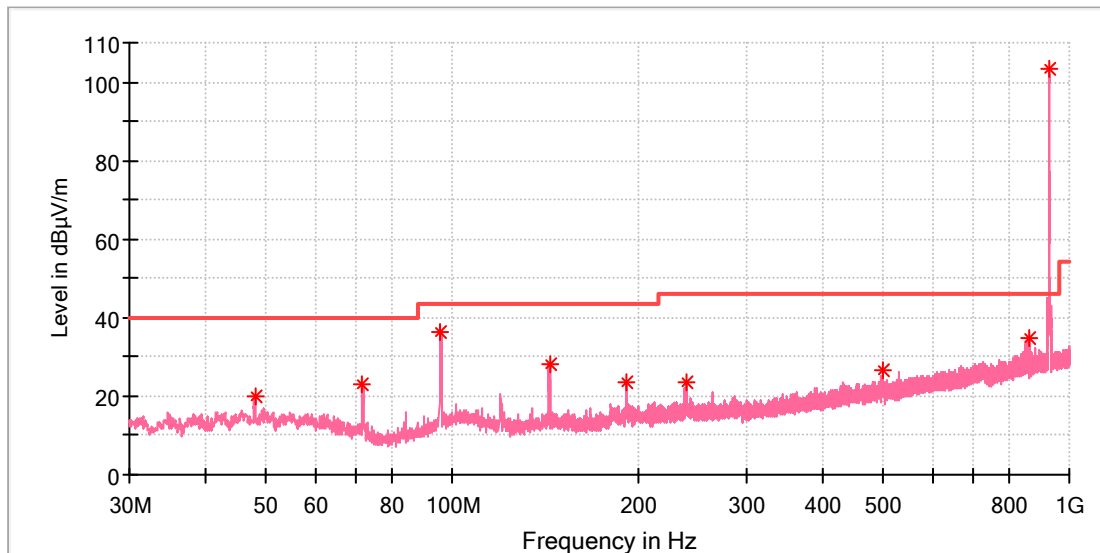
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.891111	19.79	40.00	20.21	100.0	H	54.0	-18.5
71.979444	23.98	40.00	16.02	100.0	H	40.0	-22.6
96.013889	38.32	43.50	5.18	100.0	H	33.0	-19.7
119.994444	27.34	43.50	16.16	100.0	H	36.0	-20.9
143.328333	37.49	43.50	6.01	100.0	H	203.0	-22.4
191.505000	33.77	43.50	9.73	100.0	H	33.0	-19.5
240.005000	35.45	46.00	10.55	100.0	H	25.0	-17.7
287.319444	30.98	46.00	15.02	100.0	H	17.0	-16.6
334.903333	28.24	46.00	17.76	100.0	H	65.0	-15.2
383.026111	27.63	46.00	18.37	100.0	H	25.0	-14.2
895.401667	38.20	46.00	7.80	100.0	H	277.0	-4.9
927.681111	107.05	---	---	100.0	H	277.0	-4.5

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: AiMOGA Mornine
Model: M1
Test Mode: Lora DTS 500K_SF7_927.5MHz
Order No/Sample No: 168584456/A004209761-008
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.945000	19.97	40.00	20.03	100.0	V	64.0	-18.5
71.602222	22.85	40.00	17.15	100.0	V	101.0	-22.4
95.690556	36.53	43.50	6.97	100.0	V	124.0	-19.7
143.867222	28.29	43.50	15.21	100.0	V	347.0	-22.4
191.990000	23.59	43.50	19.91	100.0	V	138.0	-19.5
240.005000	23.53	46.00	22.48	100.0	V	343.0	-17.7
497.863333	26.78	46.00	19.22	100.0	V	200.0	-11.9
861.451667	34.66	46.00	11.34	100.0	V	242.0	-5.2
927.303889	103.24	---	---	100.0	V	160.0	-4.5

Final_Result

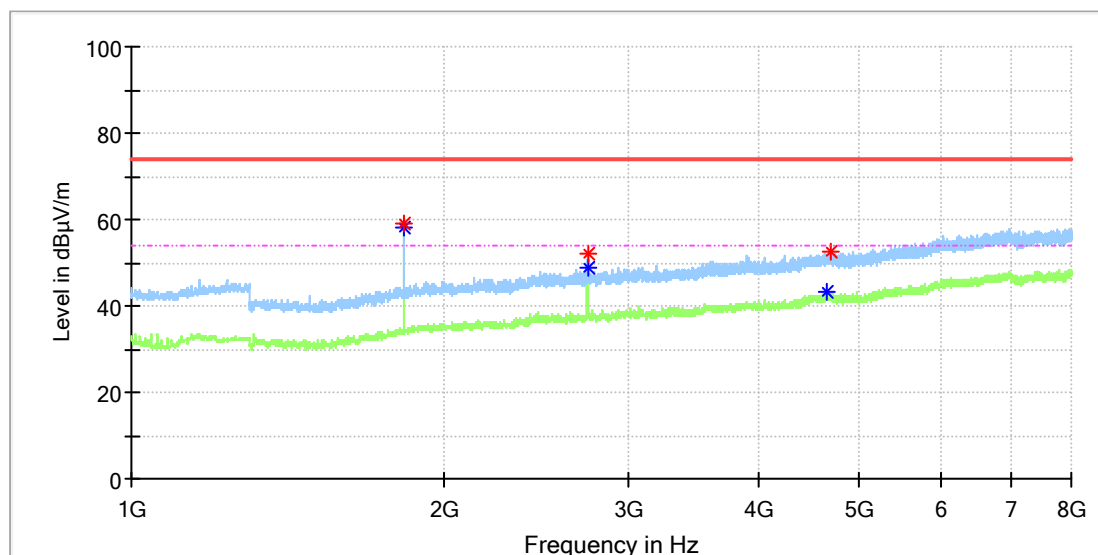
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	

EUT Information

EUT Name:	AiMOGA Mornine
Model:	M1
Test Mode:	Lora DTS 500K_SF7_914.2MHz
Order No/Sample No:	168584456/A004209761-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1827.625000	---	58.08	70.51	12.43	150.0	H	71.0	6.4
1827.625000	58.89	---	80.51	21.62	150.0	H	71.0	6.4
2742.175000	---	48.71	54.00	5.29	150.0	H	106.0	9.3
2742.733333	52.28	---	74.00	21.72	150.0	H	106.0	9.3
4648.883333	---	43.19	54.00	10.81	150.0	H	224.0	13.5
4706.950000	52.52	---	74.00	21.48	150.0	H	351.0	13.5

Final Result

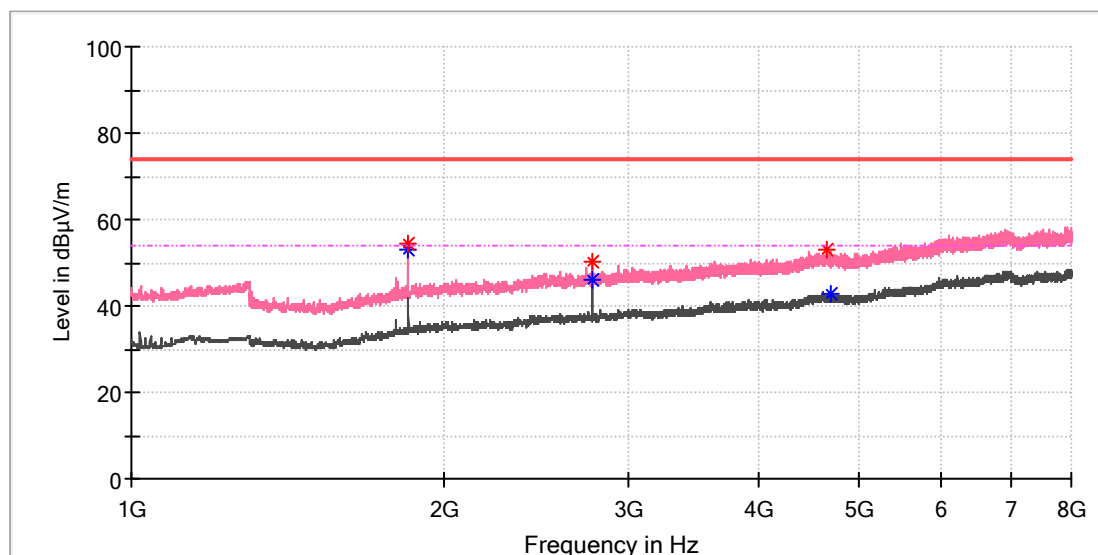
Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	AiMOGA Mornine
Model:	M1
Test Mode:	Lora DTS 500K_SF7_923.3MHz
Order No/Sample No:	168584456/A004209761-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

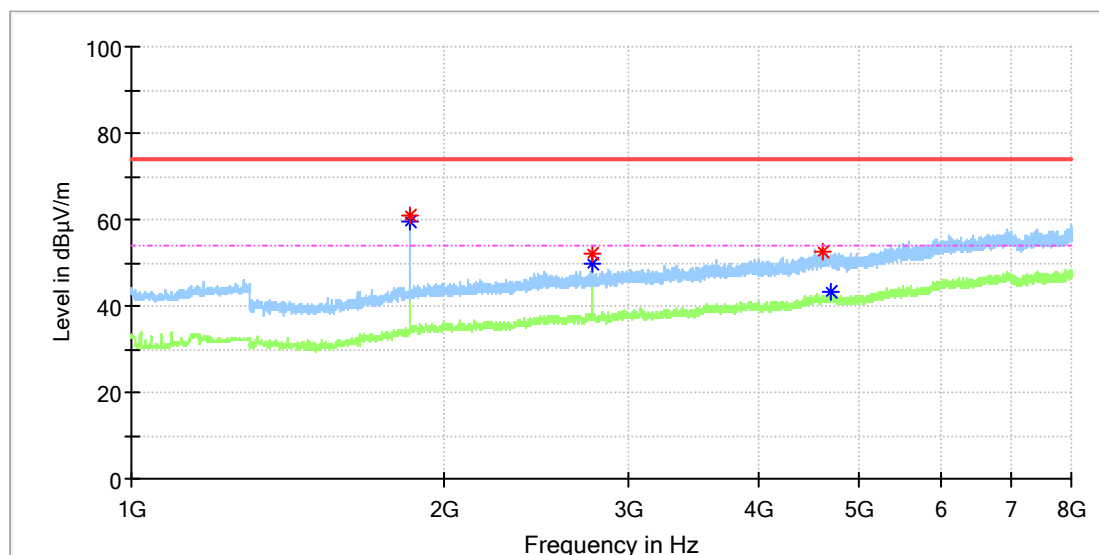
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
1846.608333	54.58	---	83.57	28.99	150.0	V	351.0	6.5
1846.608333	---	53.18	73.57	20.39	150.0	V	351.0	6.5
2770.091667	50.14	---	74.00	23.86	150.0	V	212.0	9.4
2770.091667	---	46.20	54.00	7.80	150.0	V	212.0	9.4
4655.583333	52.80	---	74.00	21.20	150.0	V	125.0	13.5
4692.991667	---	42.94	54.00	11.06	150.0	V	13.0	13.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	

EUT Information

EUT Name:	AiMOGA Mornine
Model:	M1
Test Mode:	Lora DTS 500K_SF7_925.1MHz
Order No/Sample No:	168584456/A004209761-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

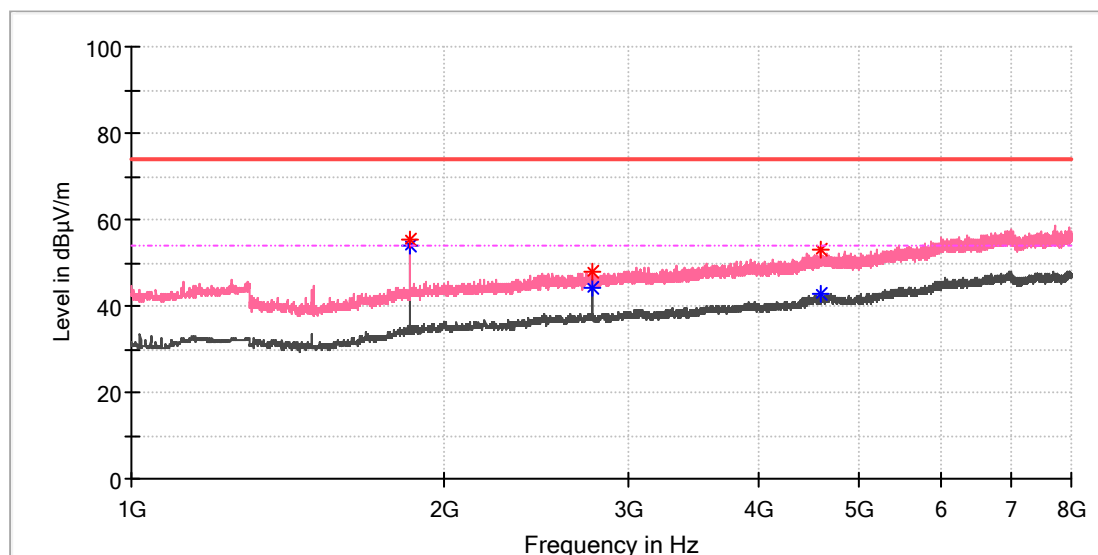
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1849.958333	61.01	---	81.10	20.09	150.0	H	137.0	6.5
1850.516667	---	59.64	71.10	11.46	150.0	H	137.0	6.5
2775.116667	52.03	---	74.00	21.97	150.0	H	314.0	9.4
2775.675000	---	49.73	54.00	4.27	150.0	H	314.0	9.4
4607.008333	52.68	---	74.00	21.32	150.0	H	36.0	13.5
4691.875000	---	43.14	54.00	10.86	150.0	H	28.0	13.5

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	AiMOGA Mornine
Model:	M1
Test Mode:	Lora DTS 500K_SF7_925.1MHz
Order No/Sample No:	168584456/A004209761-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1849.958333	---	53.88	72.14	18.26	150.0	V	47.0	6.5
1849.958333	55.57	---	82.14	26.57	150.0	V	47.0	6.5
2775.675000	---	44.41	54.00	9.59	150.0	V	230.0	9.4
2776.233333	47.85	---	74.00	26.15	150.0	V	230.0	9.4
4586.350000	53.17	---	74.00	20.83	150.0	V	35.0	13.5
4594.725000	---	42.60	54.00	11.40	150.0	V	148.0	13.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	

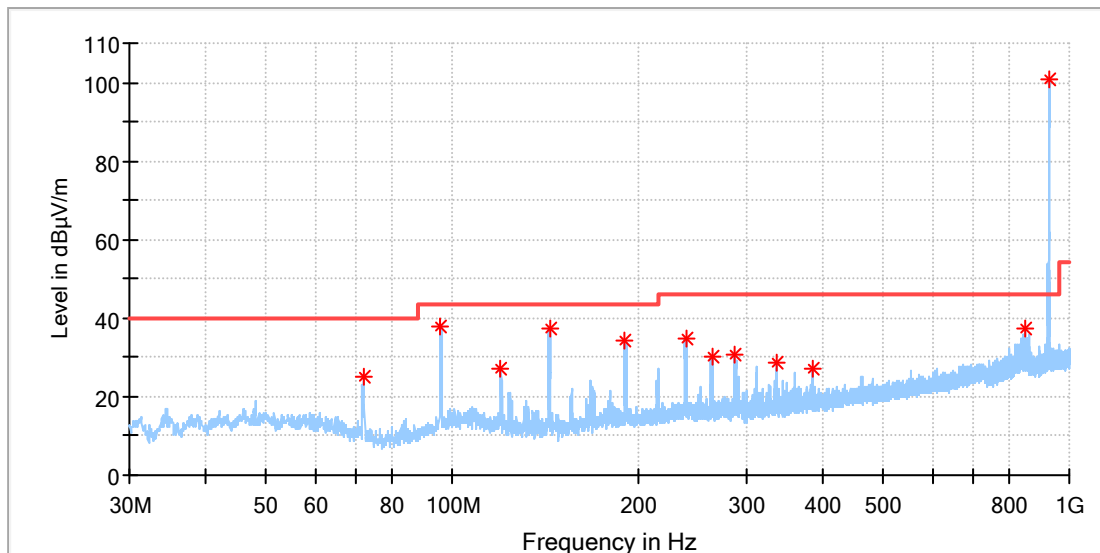
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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30MHz - 1GHz for co-location

Note: The highest waveform in the figure is Lora Fundamental.

EUT Information

EUT Name:	AiMOGA Mornine
Model:	M1
Test Mode:	Lora+WIFI 5G
Order No/Sample No:	168584456/A004209761-008
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

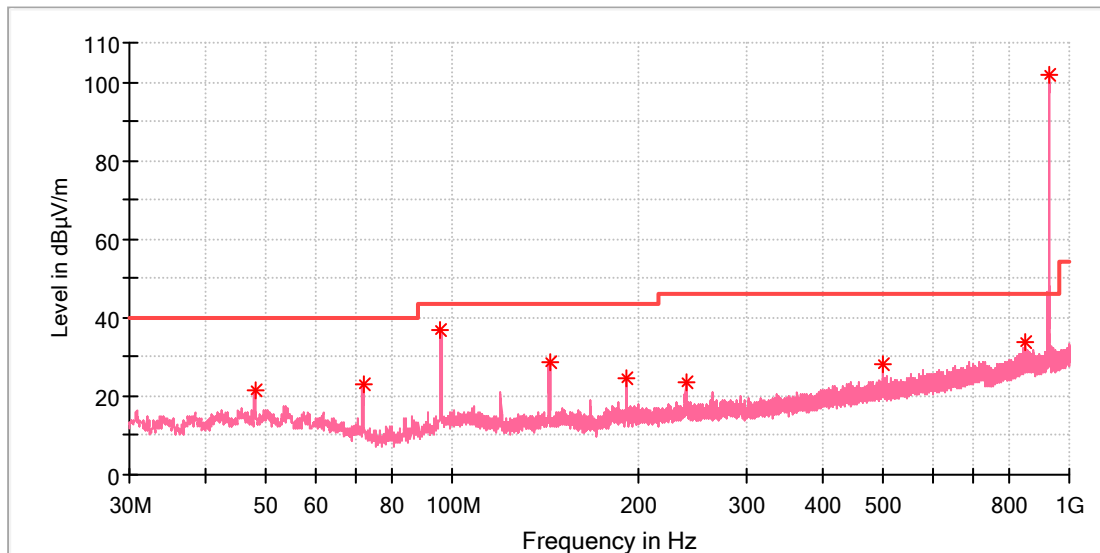
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
71.925556	25.20	40.00	14.80	100.0	H	21.0	-22.5
95.906111	38.08	43.50	5.42	100.0	H	37.0	-19.7
119.455556	27.36	43.50	16.14	100.0	H	17.0	-20.8
144.028889	37.29	43.50	6.21	100.0	H	186.0	-22.4
190.696667	34.18	43.50	9.32	100.0	H	40.0	-19.6
239.843333	35.02	46.00	10.98	100.0	H	37.0	-17.7
264.039444	30.09	46.00	15.91	100.0	H	48.0	-17.0
287.804444	30.72	46.00	15.28	100.0	H	21.0	-16.6
335.226667	28.76	46.00	17.24	100.0	H	59.0	-15.2
383.133889	27.13	46.00	18.87	100.0	H	28.0	-14.2
847.871667	37.14	46.00	8.86	100.0	H	282.0	-5.4
925.363889	100.92	---	---	100.0	H	253.0	-4.5

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: AiMOGA Mornine
Model: M1
Test Mode: Lora+WIFI 5G
Order No/Sample No: 168584456/A004209761-008
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.891111	21.32	40.00	18.68	100.0	V	28.0	-18.5
71.925556	23.22	40.00	16.78	100.0	V	64.0	-22.5
95.582778	36.87	43.50	6.63	100.0	V	121.0	-19.8
143.921111	28.68	43.50	14.82	100.0	V	333.0	-22.4
191.127778	24.49	43.50	19.01	100.0	V	88.0	-19.6
239.250556	23.68	46.00	22.32	100.0	V	333.0	-17.8
499.210556	28.17	46.00	17.83	100.0	V	163.0	-11.9
850.781667	33.57	46.00	12.43	100.0	V	241.0	-5.4
925.094444	101.68	---	---	100.0	V	245.0	-4.5

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	

