FCC RADIO TEST REPORT

FCC ID	:	**2AEUPBHARC021**
Equipment	:	**Security Camera**
Brand Name	:	**ring**
Model Name	:	**5CCEA4**
Applicant	:	**Ring LLC** **12515 Cerise Ave, Hawthorne, CA 90250, USA**
Manufacturer	:	**Ring LLC** **12515 Cerise Ave, Hawthorne, CA 90250, USA**
Standard	:	**FCC Part 15 Subpart C §15.247**

The product was received on Aug. 01, 2025 and testing was performed from Aug. 19, 2025 to Sep. 04, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR561807-01F	01	Initial issue of report	Sep. 22, 2025
FR561807-01F	02	Corrected antenna information. This report is an updated version, replacing the report issued on Sep. 22, 2025.	Sep. 25, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.247(b)(3)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	-
3.6	15.207	AC Conducted Emission	Pass	-
3.7	15.203 15.247(b)	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng

Report Producer: Yuri Huang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth-LE, LoRa, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax and 24GHz Radar. **Antenna Type** LoRa: PIFA Antenna

Antenna information		
902 MHz ~ 928 MHz	Peak Gain (dBi)	1.7

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, CO07-HY, 03CH22-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC Part 15 Subpart C §15.247
- ANSI C63.10-2020

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

b. AC power line Conducted Emission was tested under maximum output power.

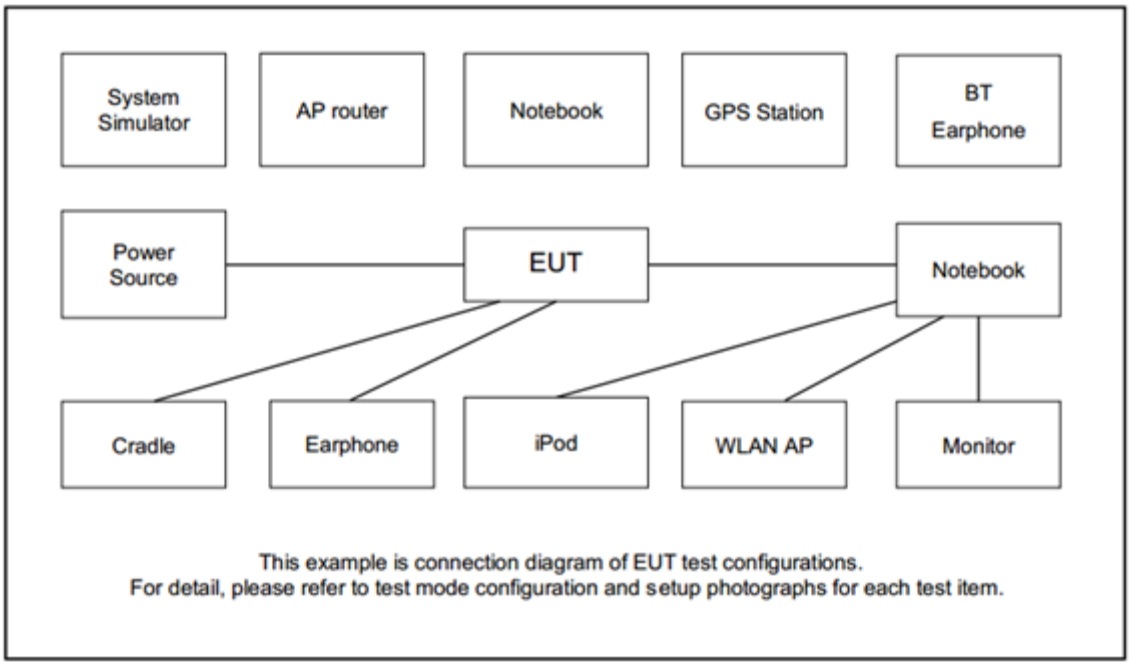
2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
902 – 928 MHz	0	902.5	16	915.3
	1	903.3	17	916.1
	2	904.1	18	916.9
	3	904.9	19	917.7
	4	905.7	20	918.5
	5	906.5	21	919.3
	6	907.3	22	920.1
	7	908.1	23	920.9
	8	908.9	24	921.7
	9	909.7	25	922.5
	10	910.5	26	923.3
	11	911.3	27	924.1
	12	912.1	28	924.9
	13	912.9	29	925.7
	14	913.7	30	926.5
	15	914.5		

2.2 Test Mode

Summary table of Test Cases		
Test Item	**Feature**	**LoRa**
Conducted Test Cases	**LoRa 500 KHz DTS**	Mode 1: CH00 Tx_902.50 MHz Mode 2: CH15 Tx_914.50 MHz Mode 3: CH30 Tx_926.50 MHz
AC Conducted Emission	Mode 1: Lora TX + adapter	
Remark: The detailed Radiated test modes are shown in Appendix C.		

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

The RF test items, utility “Tera Term Version 4.89” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.
Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

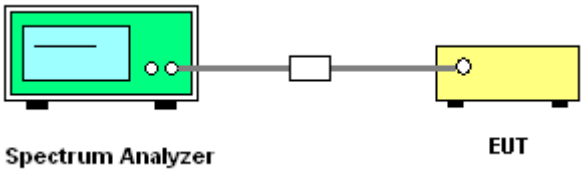
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth VBW ≥ 3 * RBW. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
   For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth, and set the Video bandwidth (VBW) ≥ 3 * RBW.
5. Measure and record the results in the test report.

3.1.4 Test Setup



3.2 Output Power Measurement

3.2.1 Limit of Output Power

Section 15.247(b)(3) For systems using digital modulation in the 902-928 MHz, the limit for peak output power is 1 watt.

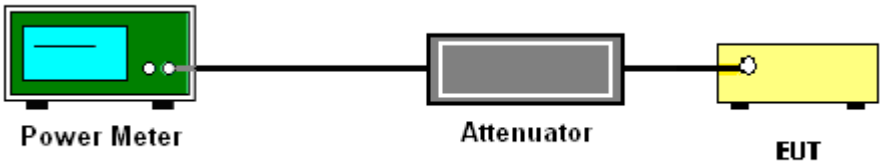
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

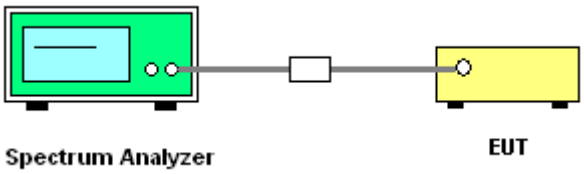
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.3 Method AVG PSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. 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 power level.
6. Measure and record the results in the test report.

3.3.4 Test Setup



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

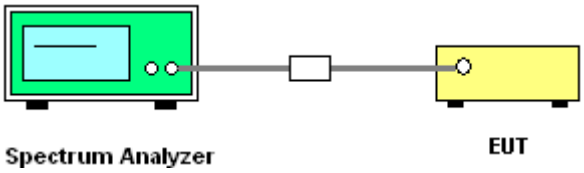
3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/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

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

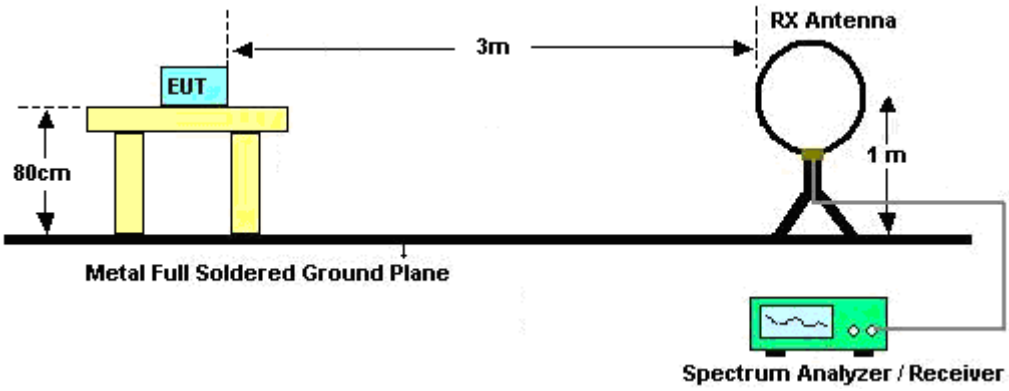
3.5.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.

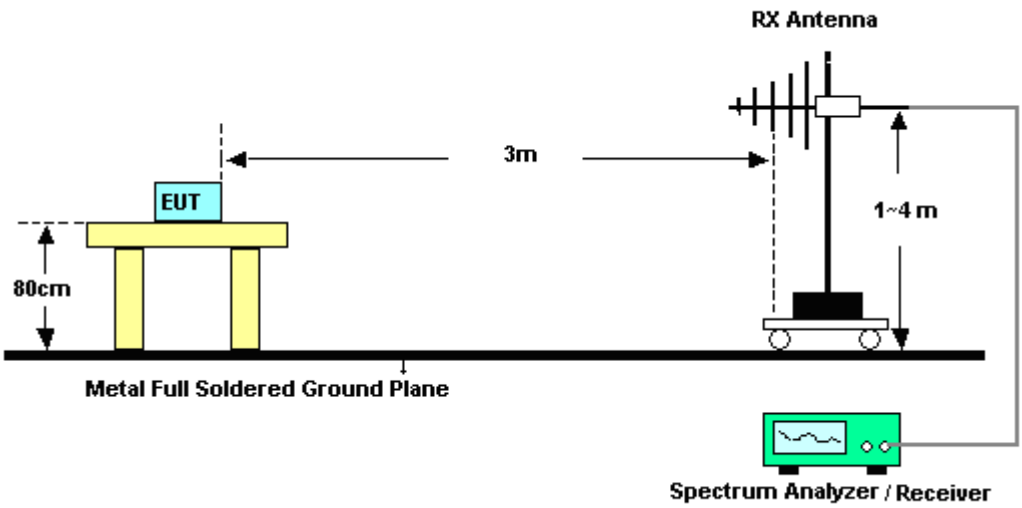
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".
8. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW = 100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3 MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

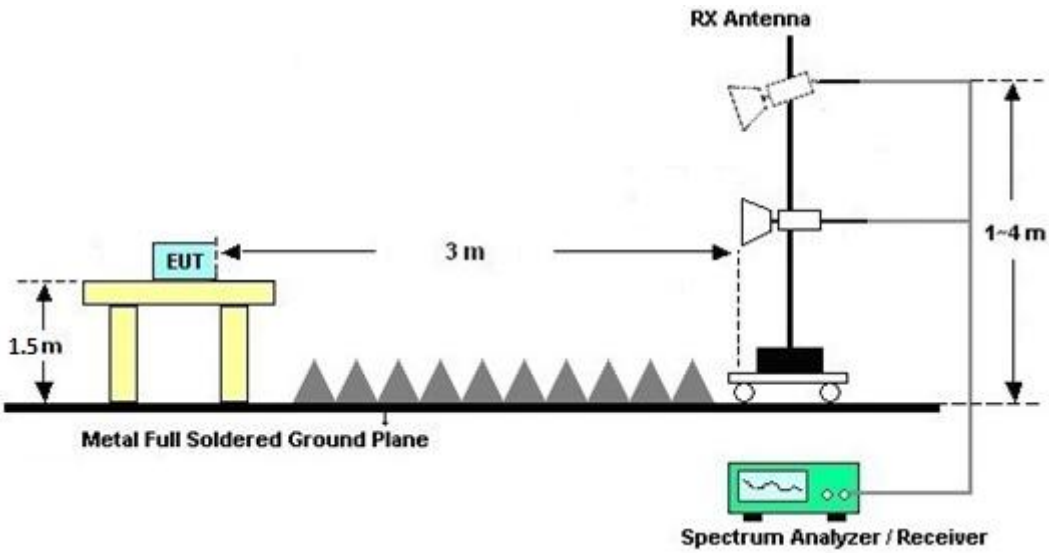
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated test above 1GHz



3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site **v01r01**, and the result comes out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment 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.

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

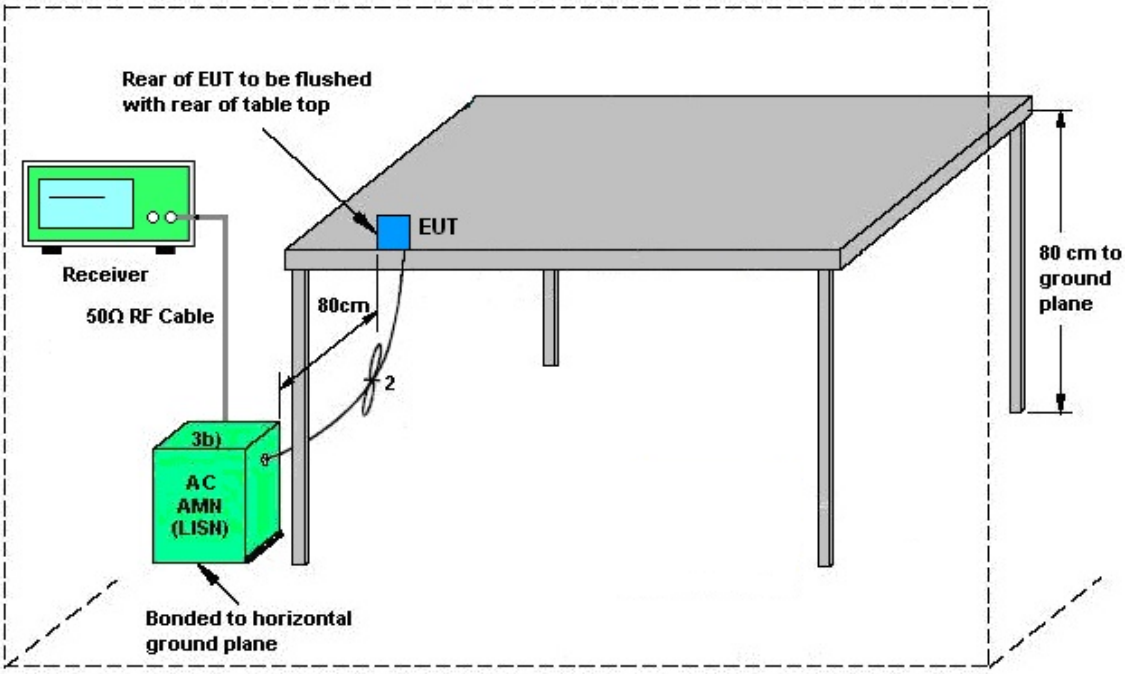
3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Aug.25,2025~ Aug.28,2025	Oct. 30, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Aug.25,2025~ Aug.28,2025	Jan. 08, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Jan. 14, 2025	Aug.25,2025~ Aug.28,2025	Jan. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Aug.25,2025~ Aug.28,2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_24051 3	N/A	Conducted Other Test Item	N/A	Aug.25,2025~ Aug.28,2025	N/A	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Aug. 29, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 29, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 23, 2024	Aug. 29, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 3, 2025	Aug. 29, 2025	Mar. 2, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Aug. 29, 2025	Mar. 23, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Aug. 29, 2025	Sep. 22, 2025	Conduction (CO07-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9kHz~30MHz	Mar. 06, 2025	Aug. 19, 2025~ Sep. 04, 2025	Mar. 05, 2026	Radiation (03CH22-HY)
Bilog Antenna with 6dB	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63304 & 002	30MHz~1GHz	Dec. 17, 2024	Aug. 19, 2025~ Sep. 04, 2025	Dec. 16, 2025	Radiation (03CH22-HY)
Amplifier	SONOMA	310N	421581	N/A	Jul. 13, 2025	Aug. 19, 2025~ Sep. 04, 2025	Jul. 12, 2026	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C04A18E N	1GHz~18GHz	May. 20, 2025	Aug. 19, 2025~ Sep. 04, 2025	May. 19, 2026	Radiation (03CH22-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1230	18GHz-40GHz	Oct. 25, 2024	Aug. 19, 2025~ Sep. 04, 2025	Oct. 24, 2025	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 27, 2024	Aug. 19, 2025~ Sep. 04, 2025	Sep. 26, 2025	Radiation (03CH22-HY)
Preamplifier	EMEC	EM18G40G	060872	18-40GHz	Nov. 29, 2024	Aug. 19, 2025~ Sep. 04, 2025	Nov. 28, 2025	Radiation (03CH22-HY)
Signal Analyzer	Keysight	N9010B	MY62170278	10Hz~44GHz	Sep. 24, 2024	Aug. 19, 2025~ Sep. 04, 2025	Sep. 23, 2025	Radiation (03CH22-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290045	20Hz~8.4GHz	Apr. 21, 2025	Aug. 19, 2025~ Sep. 04, 2025	Apr. 20, 2026	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP211469	N/A	Dec. 24, 2024	Aug. 19, 2025~ Sep. 04, 2025	Dec. 23, 2025	Radiation (03CH22-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 19, 2025~ Sep. 04, 2025	N/A	Radiation (03CH22-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 19, 2025~ Sep. 04, 2025	N/A	Radiation (03CH22-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 19, 2025~ Sep. 04, 2025	N/A	Radiation (03CH22-HY)
Software	Audix	E3	RK-002347	N/A	N/A	Aug. 19, 2025~ Sep. 04, 2025	N/A	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	Aug. 19, 2025~ Sep. 04, 2025	Mar. 04, 2026	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER/EMC I	SUCOFLEX 102/EMCI01Y-KM-KM-500/EMCI01Y-KM-KM-9000	804611/2,240914, 25043351,25043350	30MHz~ 40GHz	May. 19, 2025	Aug. 19, 2025~ Sep. 04, 2025	May. 18, 2026	Radiation (03CH22-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.7 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.5 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Derek Hsu	Temperature:	23~25	°C
Test Date:	2025/8/25~2025/8/28	Relative Humidity:	54~58	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
Lora	SF7	1	0	902.5	0.462	0.598	0.50	Pass
Lora	SF7	1	15	914.5	0.508	0.621	0.50	Pass
Lora	SF7	1	30	926.5	0.500	0.615	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
Lora	SF7	1	0	902.5	25.58	27.00	1.70	27.28	36.00	Pass
Lora	SF7	1	15	914.5	25.57	27.00	1.70	27.27	36.00	Pass
Lora	SF7	1	30	926.5	25.08	30.00	1.70	26.78	36.00	Pass

TEST RESULTS DATA
Average Power Density

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Average PSD (dBm /3kHz)	DG (dBi)	Average PSD Limit (dBm /3kHz)	Pass/Fail
Lora	SF7	1	0	902.5	25.74	7.84	1.70	8.00	Pass
Lora	SF7	1	15	914.5	25.57	5.92	1.70	8.00	Pass
Lora	SF7	1	30	926.5	24.94	5.52	1.70	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

Report Number : FR561807-01F

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
Lora	SF8	1	0	902.5	0.470	0.605	0.50	Pass
Lora	SF8	1	15	914.5	0.504	0.631	0.50	Pass
Lora	SF8	1	30	926.5	0.499	0.627	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
Lora	SF8	1	0	902.5	25.58	27.00	1.70	27.28	36.00	Pass
Lora	SF8	1	15	914.5	25.57	27.00	1.70	27.27	36.00	Pass
Lora	SF8	1	30	926.5	25.07	30.00	1.70	26.77	36.00	Pass

TEST RESULTS DATA
Average Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Average PSD (dBm /3kHz)	DG (dBi)	Average PSD Limit (dBm /3kHz)	Pass/Fail
Lora	SF8	1	0	902.5	25.74	7.78	1.70	8.00	Pass
Lora	SF8	1	15	914.5	25.57	5.97	1.70	8.00	Pass
Lora	SF8	1	30	926.5	24.95	5.90	1.70	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

Report Number : FR561807-01F

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
Lora	SF9	1	0	902.5	0.486	0.629	0.50	Pass
Lora	SF9	1	15	914.5	0.498	0.633	0.50	Pass
Lora	SF9	1	30	926.5	0.499	0.630	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
Lora	SF9	1	0	902.5	25.61	27.00	1.70	27.31	36.00	Pass
Lora	SF9	1	15	914.5	25.60	27.00	1.70	27.30	36.00	Pass
Lora	SF9	1	30	926.5	25.05	30.00	1.70	26.75	36.00	Pass

TEST RESULTS DATA
Average Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Average PSD (dBm /3kHz)	DG (dBi)	Average PSD Limit (dBm /3kHz)	Pass/Fail
Lora	SF9	1	0	902.5	25.71	7.13	1.70	8.00	Pass
Lora	SF9	1	15	914.5	25.54	6.21	1.70	8.00	Pass
Lora	SF9	1	30	926.5	24.89	5.29	1.70	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

Report Number : FR561807-01F

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
Lora	SF10	1	0	902.5	0.490	0.626	0.50	Pass
Lora	SF10	1	15	914.5	0.496	0.637	0.50	Pass
Lora	SF10	1	30	926.5	0.496	0.635	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
Lora	SF10	1	0	902.5	25.64	27.00	1.70	27.34	36.00	Pass
Lora	SF10	1	15	914.5	25.61	27.00	1.70	27.31	36.00	Pass
Lora	SF10	1	30	926.5	25.06	30.00	1.70	26.76	36.00	Pass

TEST RESULTS DATA
Average Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Average PSD (dBm /3kHz)	DG (dBi)	Average PSD Limit (dBm /3kHz)	Pass/Fail
Lora	SF10	1	0	902.5	25.76	6.76	1.70	8.00	Pass
Lora	SF10	1	15	914.5	25.57	5.90	1.70	8.00	Pass
Lora	SF10	1	30	926.5	24.93	6.35	1.70	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

Report Number : FR561807-01F

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
Lora	SF11	1	0	902.5	0.495	0.633	0.50	Pass
Lora	SF11	1	15	914.5	0.500	0.631	0.50	Pass
Lora	SF11	1	30	926.5	0.499	0.639	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
Lora	SF11	1	0	902.5	25.59	27.00	1.70	27.29	36.00	Pass
Lora	SF11	1	15	914.5	25.56	27.00	1.70	27.26	36.00	Pass
Lora	SF11	1	30	926.5	25.09	30.00	1.70	26.79	36.00	Pass

TEST RESULTS DATA
Average Power Density

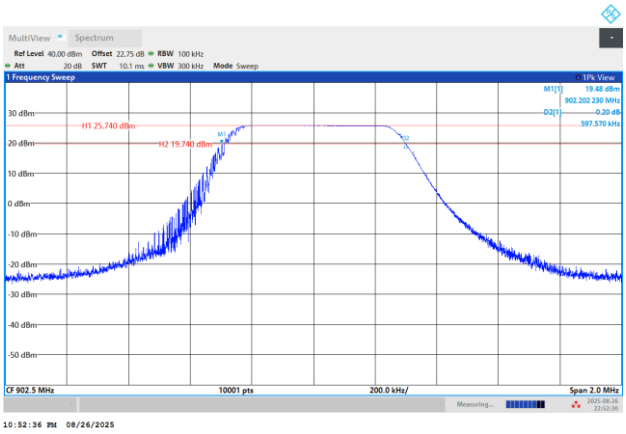
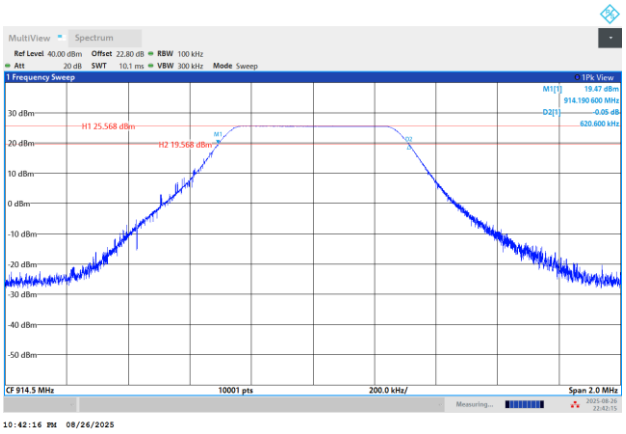
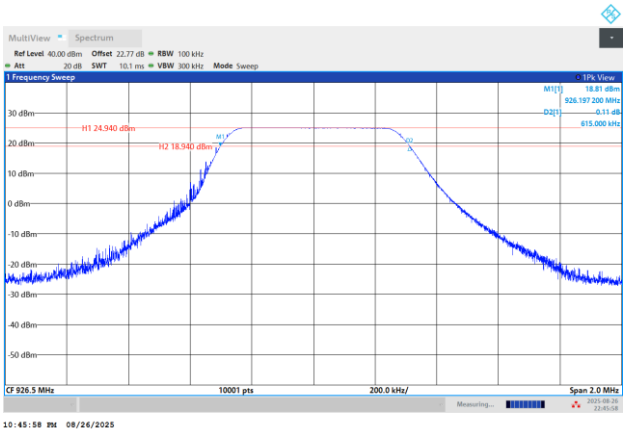
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Average PSD (dBm /3kHz)	DG (dBi)	Average PSD Limit (dBm /3kHz)	Pass/Fail
Lora	SF11	1	0	902.5	25.73	7.17	1.70	8.00	Pass
Lora	SF11	1	15	914.5	25.57	5.90	1.70	8.00	Pass
Lora	SF11	1	30	926.5	24.92	6.58	1.70	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

Number of TX = 1, Ant. 0 (Measured)

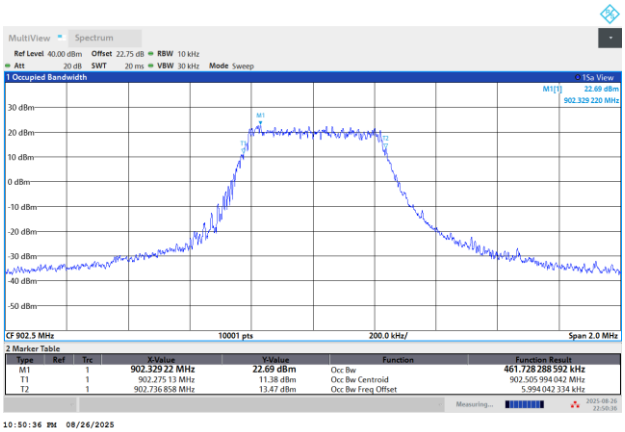
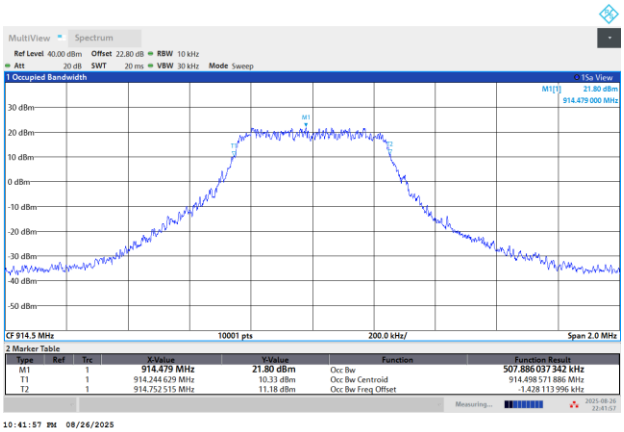
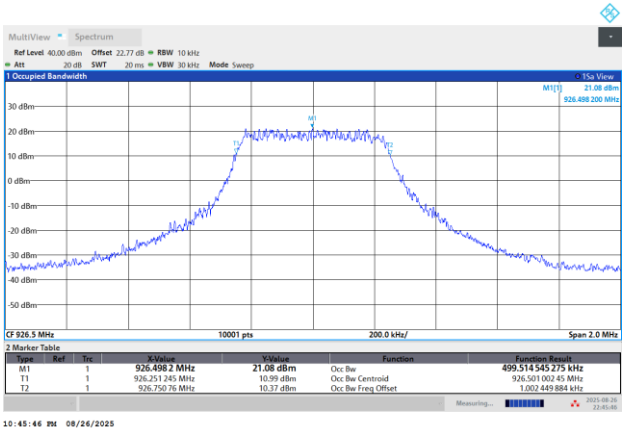
6dB Bandwidth

<SF7>

6 dB Bandwidth Plot on Channel 0	6 dB Bandwidth Plot on Channel 15
	
6 dB Bandwidth Plot on Channel 30	
	

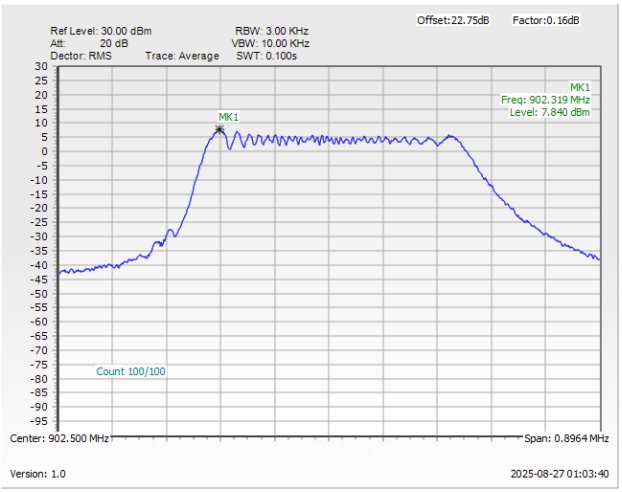
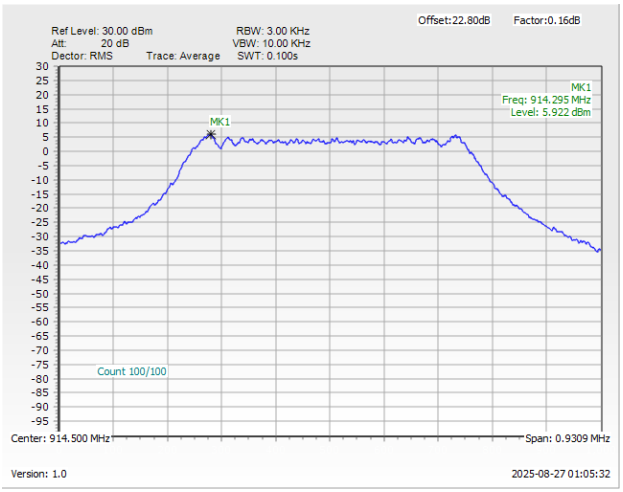
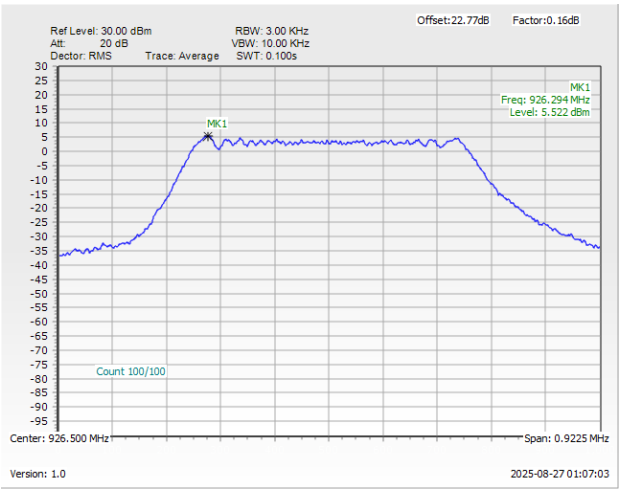
99% Occupied Bandwidth

<SF7>

99% Occupied Bandwidth Plot on Channel 0	99% Occupied Bandwidth Plot on Channel 15
	
99% Occupied Bandwidth Plot on Channel 30	
	

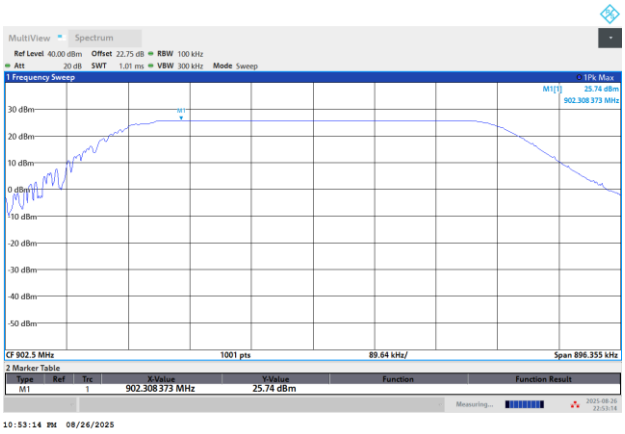
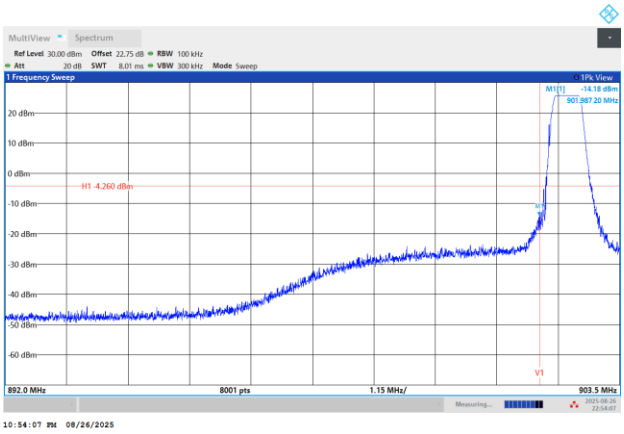
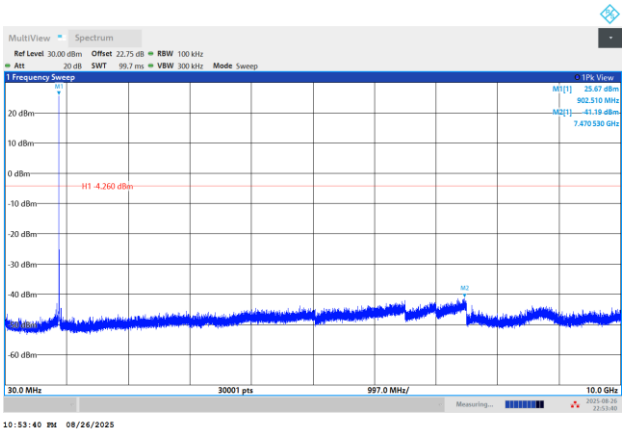
Power Spectral Density (dBm/3kHz)

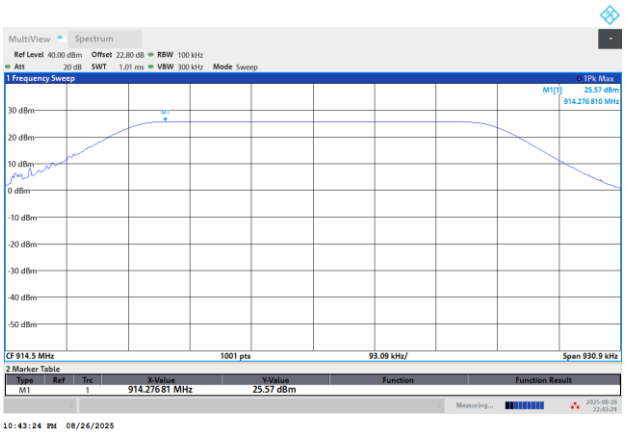
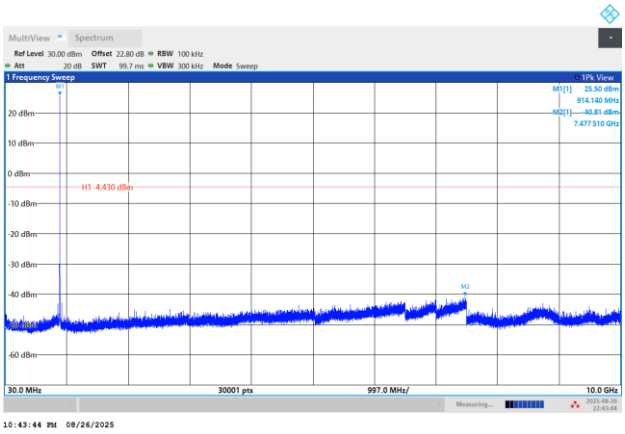
<SF7>

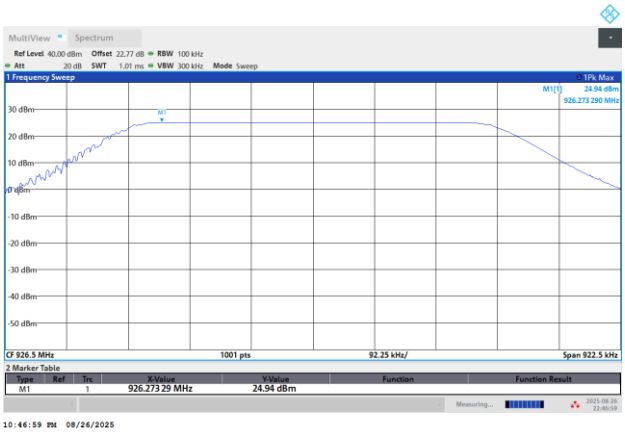
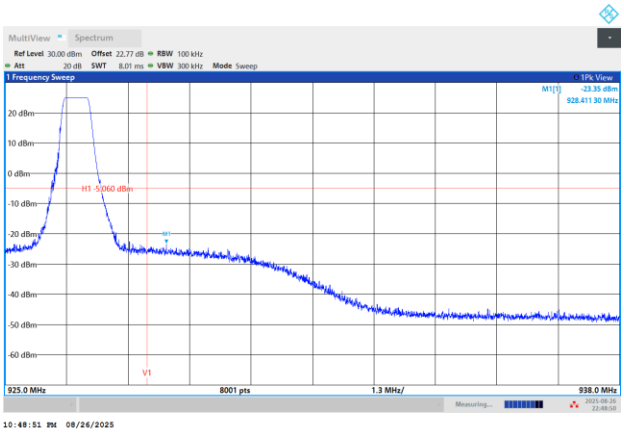
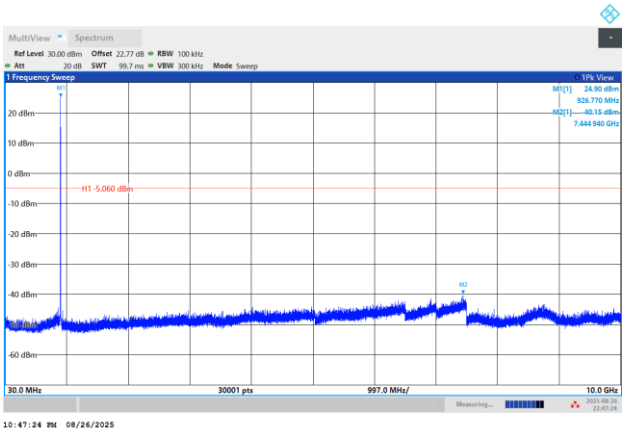
Power Density (dBm/3kHz) Plot Channel 0	Power Density (dBm/3kHz) Plot Channel 15
	
Power Density (dBm/3kHz) Plot Channel 30	
	

Band Edge and Conducted Spurious Emission

<SF7>

Channel 0	
100kHz PSD reference Level Plot	**Plot on Channel 0**
	
Spurious Emission 30MHz~10GHz Plot	
	

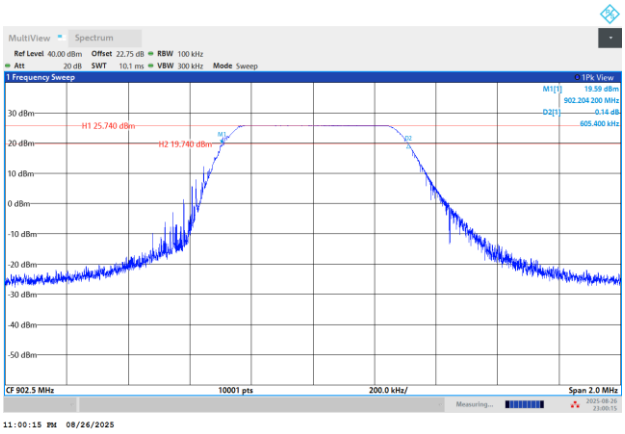
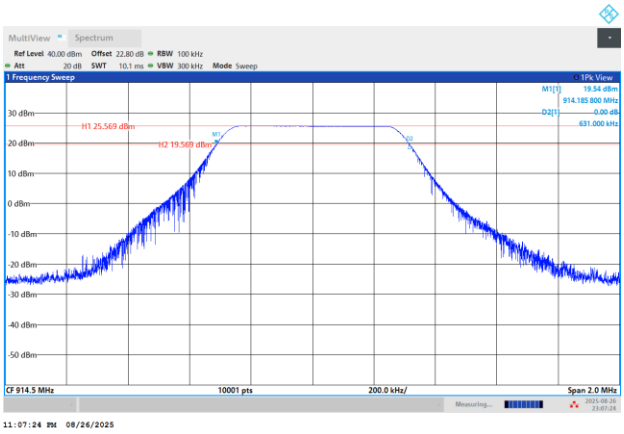
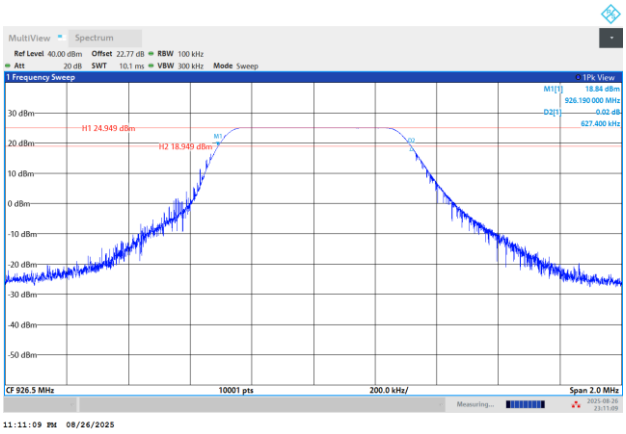
Channel 15	
100kHz PSD reference Level Plot	
	
Spurious Emission 30MHz~10GHz Plot	
	

Channel 30	
100kHz PSD reference Level Plot	**Plot on Channel 30**
	
Spurious Emission 30MHz~10GHz Plot	
	

Number of TX = 1, Ant. 0 (Measured)

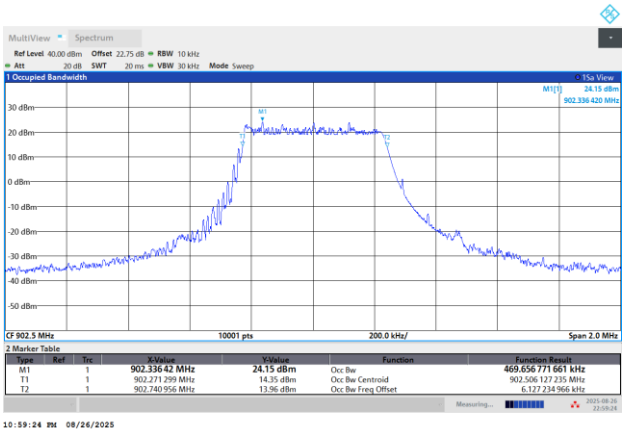
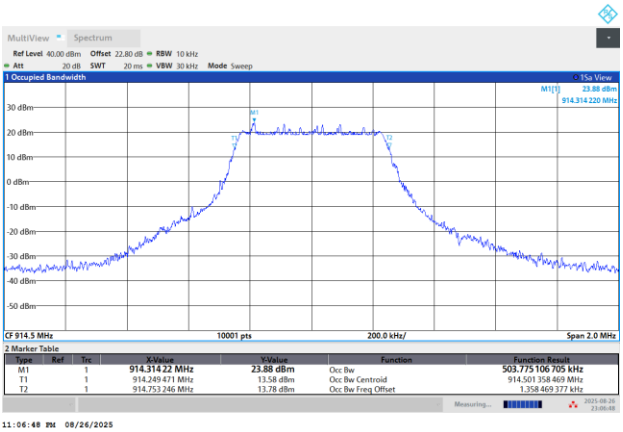
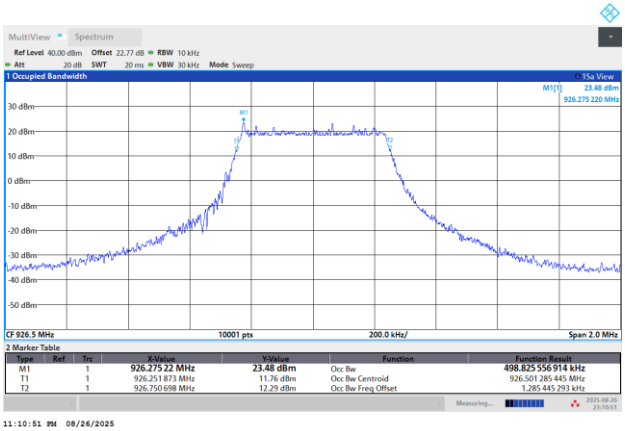
6dB Bandwidth

<SF8>

6 dB Bandwidth Plot on Channel 0	6 dB Bandwidth Plot on Channel 15
	
6 dB Bandwidth Plot on Channel 30	
	

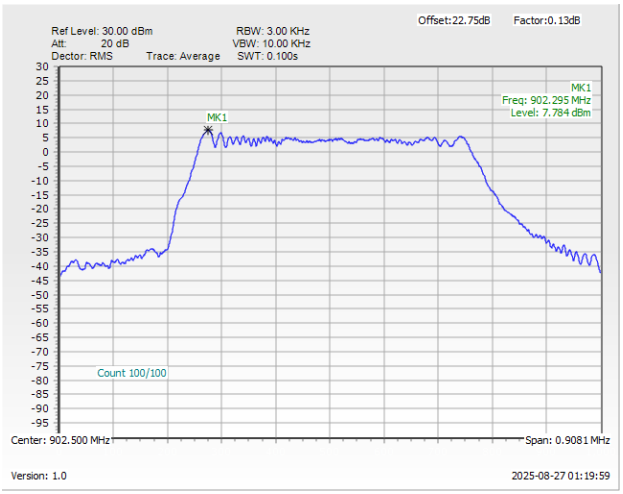
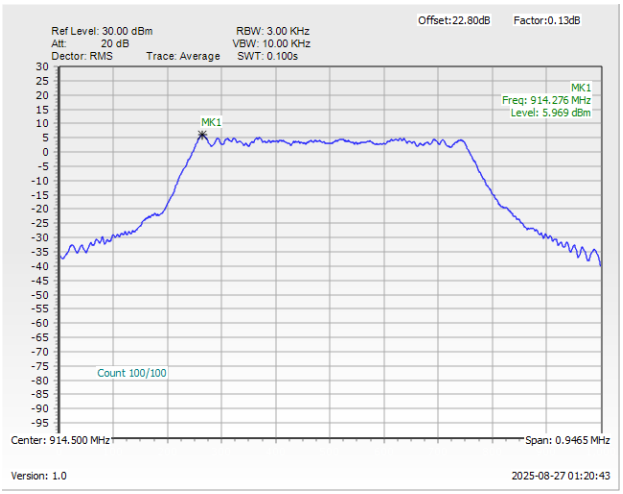
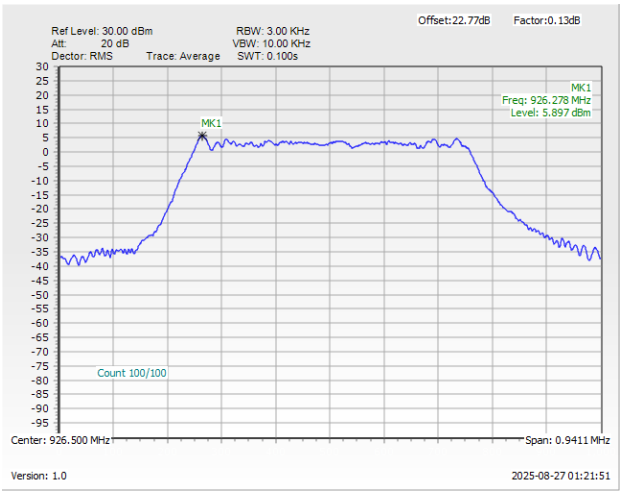
99% Occupied Bandwidth

<SF8>

99% Occupied Bandwidth Plot on Channel 0	99% Occupied Bandwidth Plot on Channel 15
	
99% Occupied Bandwidth Plot on Channel 30	
	

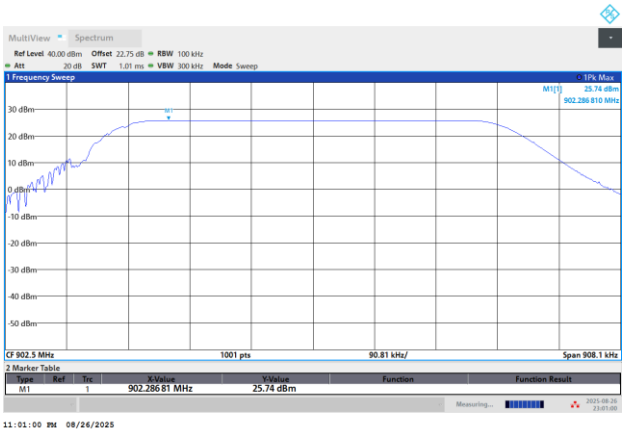
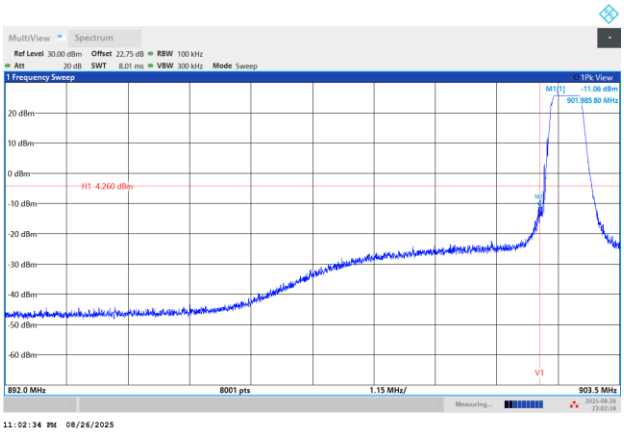
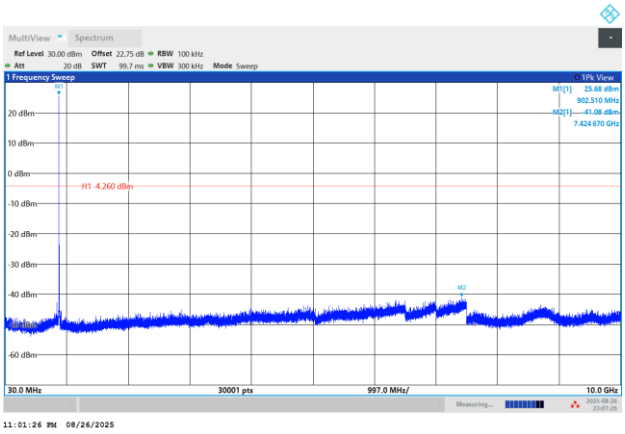
Power Spectral Density (dBm/3kHz)

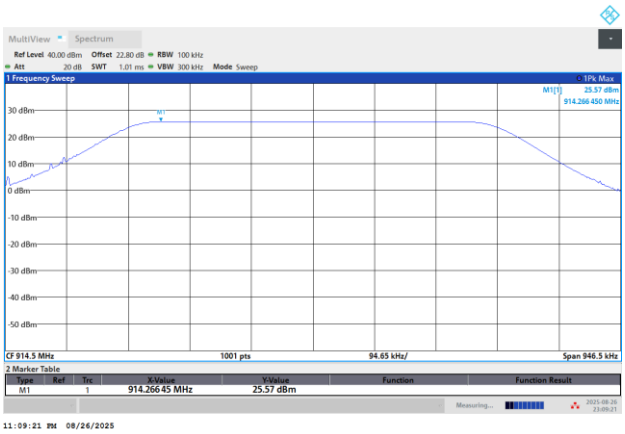
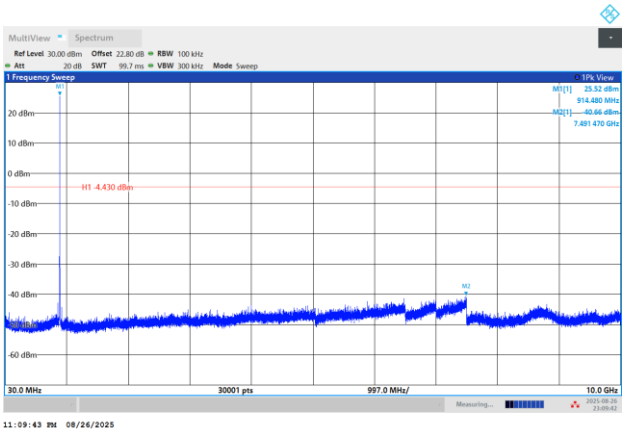
<SF8>

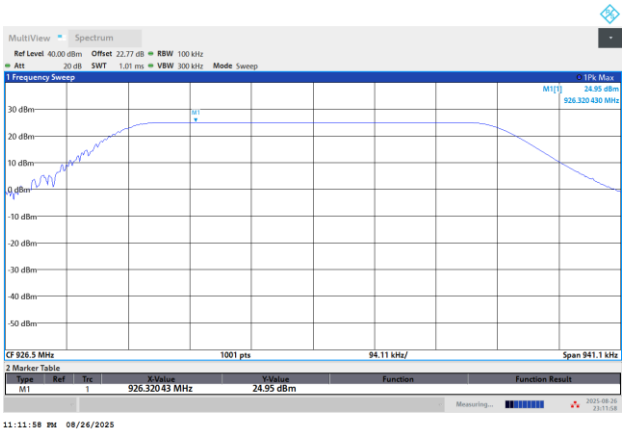
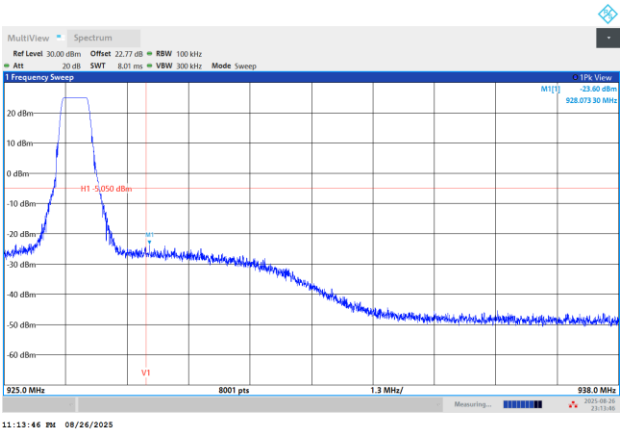
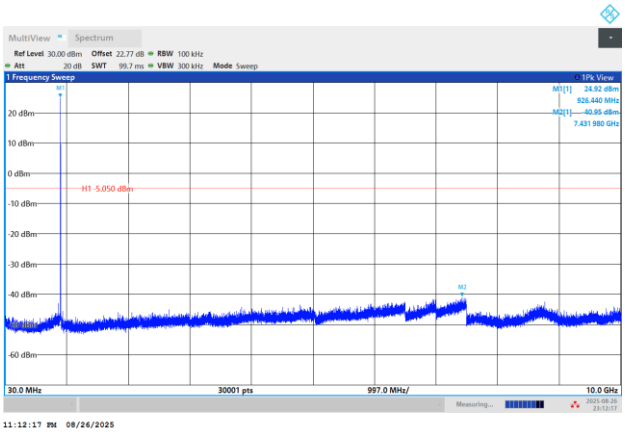
Power Density (dBm/3kHz) Plot Channel 0	Power Density (dBm/3kHz) Plot Channel 15
	
Power Density (dBm/3kHz) Plot Channel 30	
	

Band Edge and Conducted Spurious Emission

<SF8>

Channel 0	
100kHz PSD reference Level Plot	**Plot on Channel 0**
	
Spurious Emission 30MHz~10GHz Plot	
	

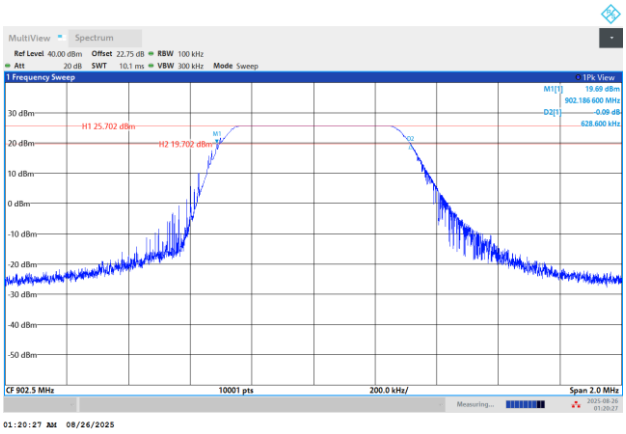
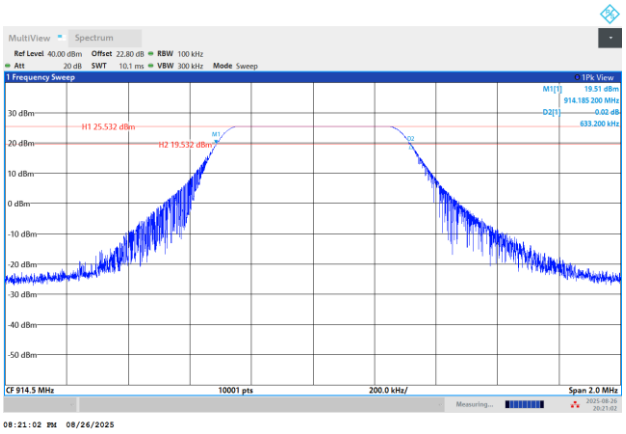
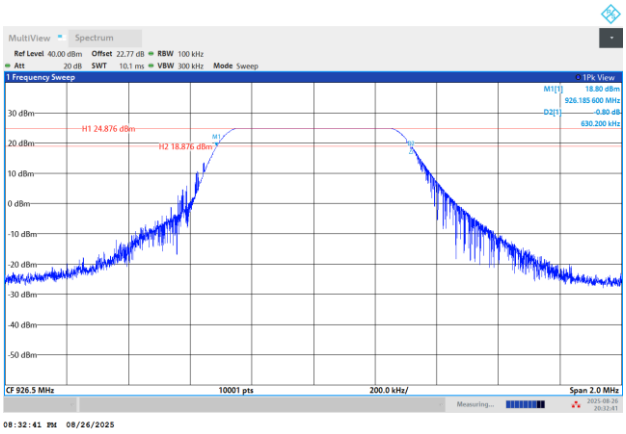
Channel 15	
100kHz PSD reference Level Plot	
	
Spurious Emission 30MHz~10GHz Plot	
	

Channel 30	
100kHz PSD reference Level Plot	**Plot on Channel 30**
	
Spurious Emission 30MHz~10GHz Plot	
	

Number of TX = 1, Ant. 0 (Measured)

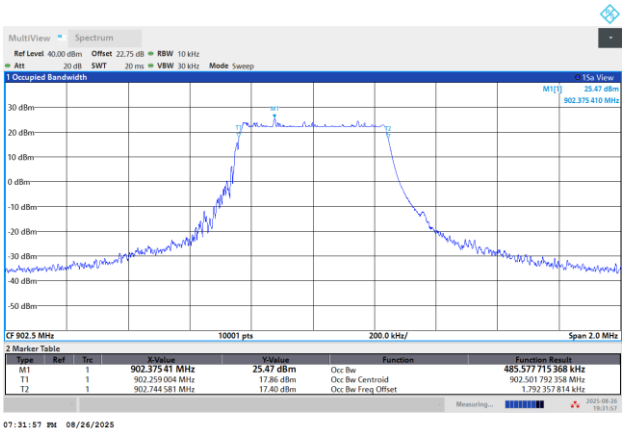
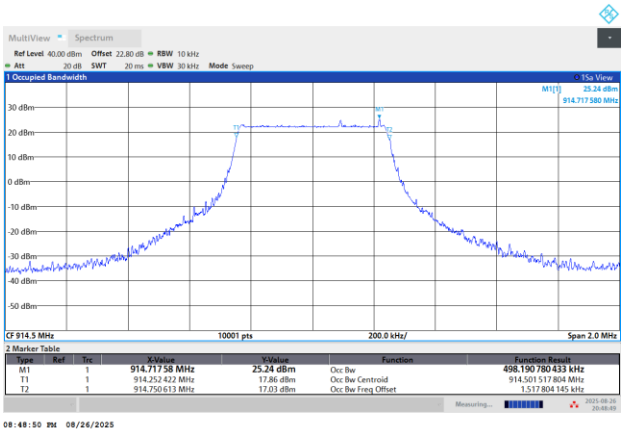
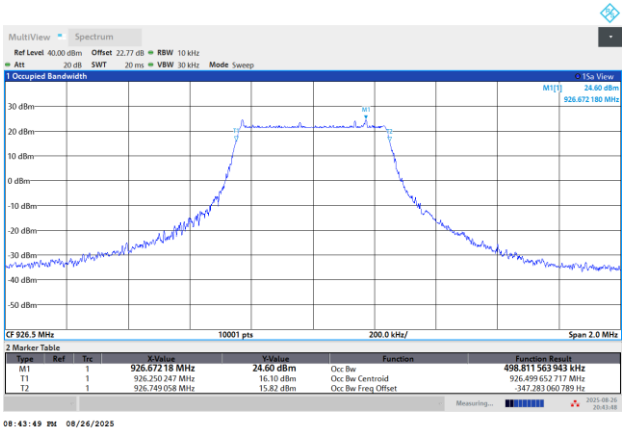
6dB Bandwidth

<SF9>

6 dB Bandwidth Plot on Channel 0	6 dB Bandwidth Plot on Channel 15
	
6 dB Bandwidth Plot on Channel 30	
	

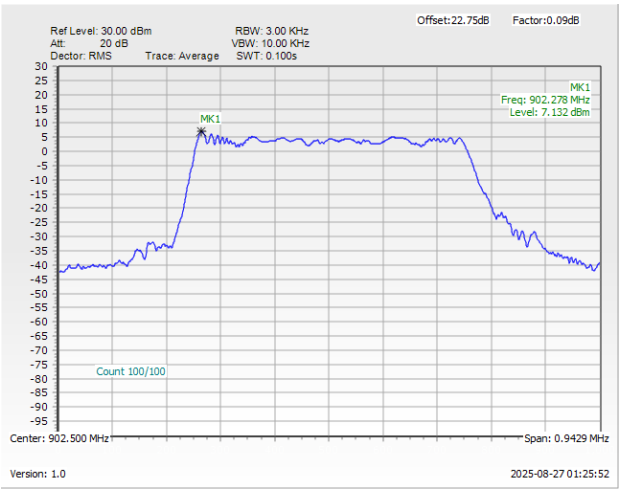
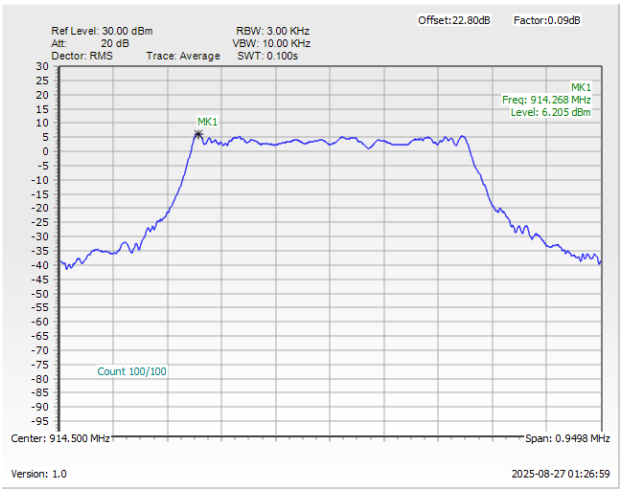
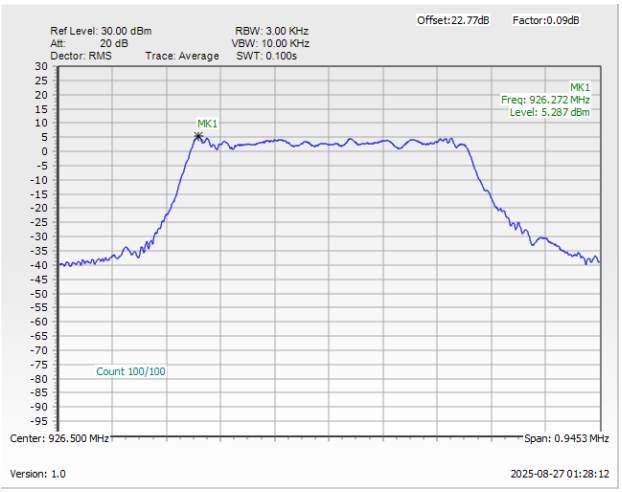
99% Occupied Bandwidth

<SF9>

99% Occupied Bandwidth Plot on Channel 0	99% Occupied Bandwidth Plot on Channel 15
	
99% Occupied Bandwidth Plot on Channel 30	
	

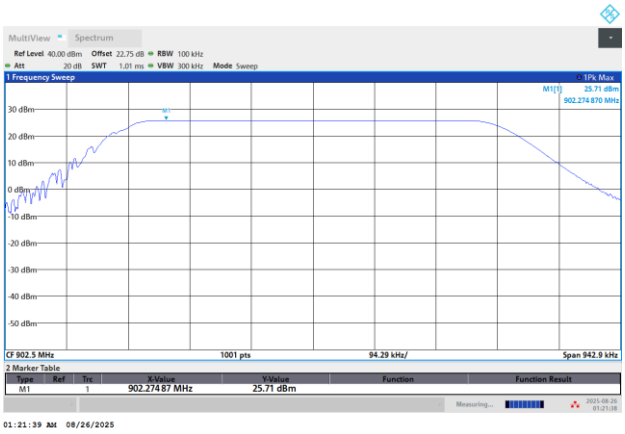
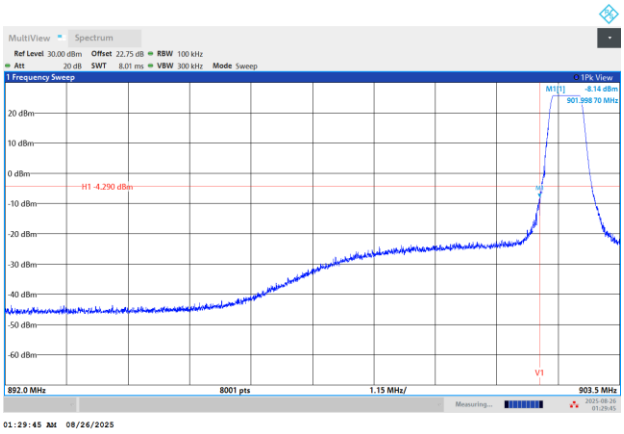
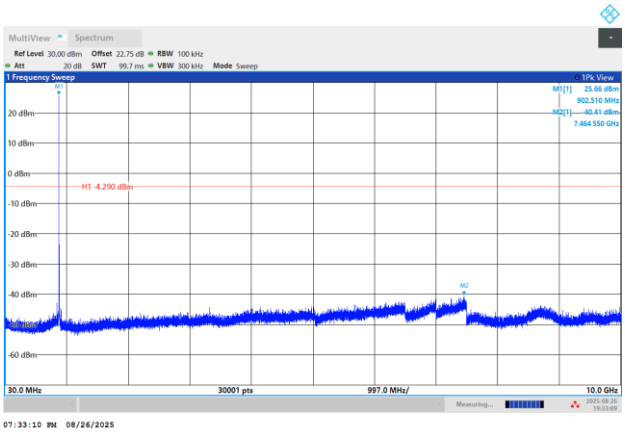
Power Spectral Density (dBm/3kHz)

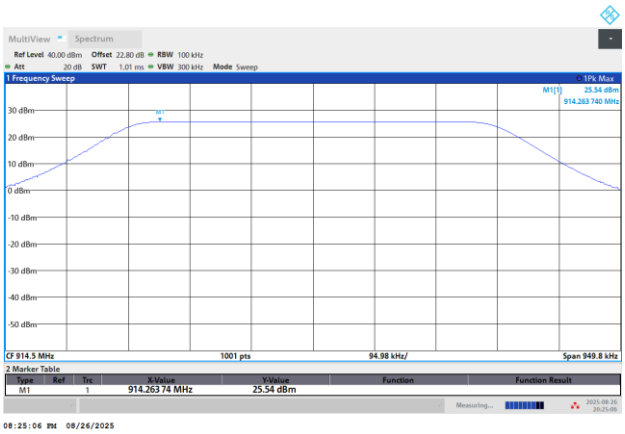
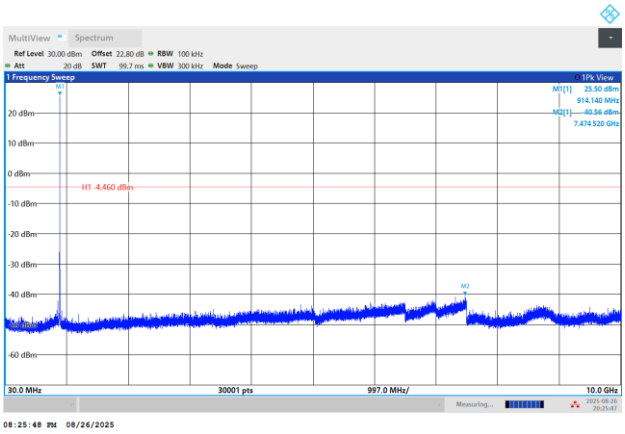
<SF9>

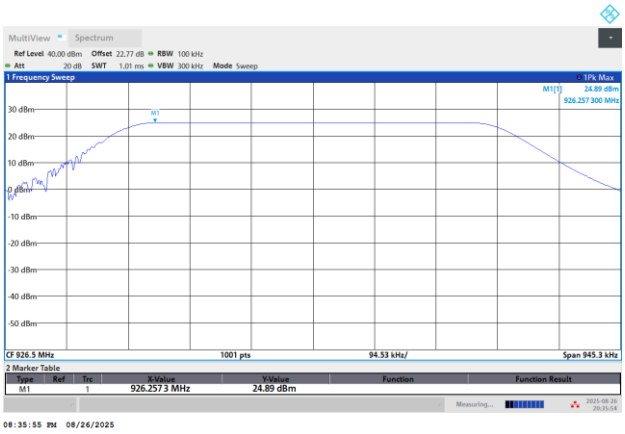
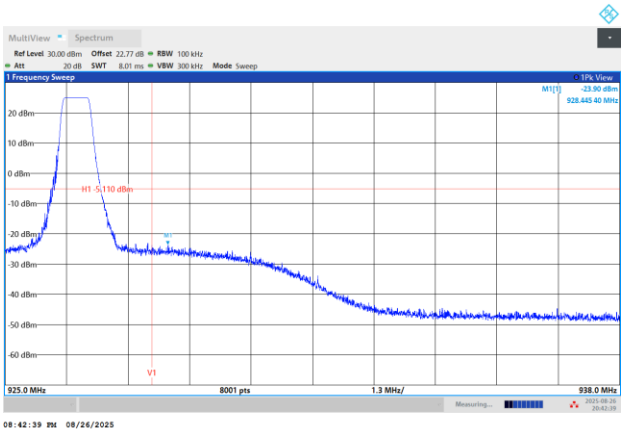
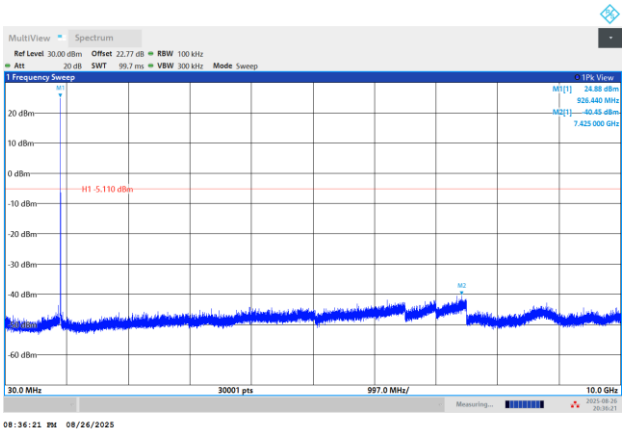
Power Density (dBm/3kHz) Plot Channel 0	Power Density (dBm/3kHz) Plot Channel 15
	
Power Density (dBm/3kHz) Plot Channel 30	
	

Band Edge and Conducted Spurious Emission

<SF9>

Channel 0	
100kHz PSD reference Level Plot	**Plot on Channel 0**
	
Spurious Emission 30MHz~10GHz Plot	
	

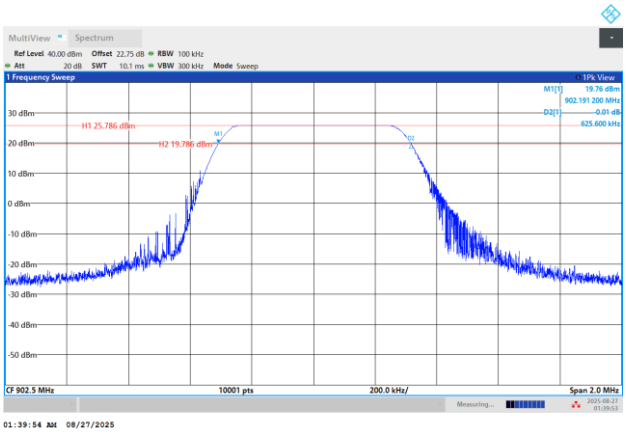
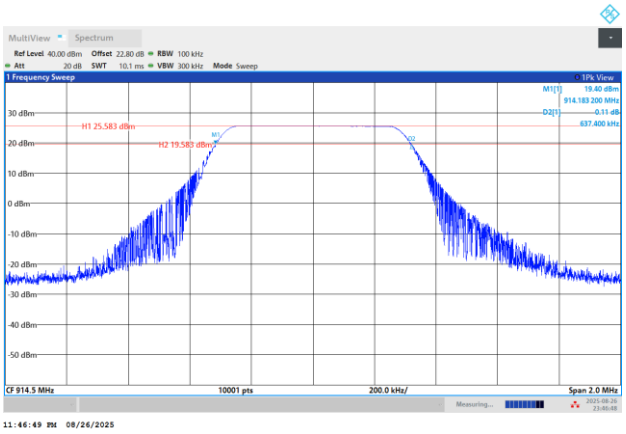
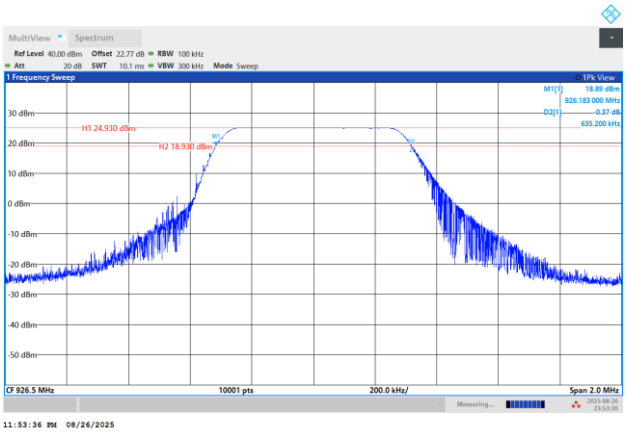
Channel 15	
100kHz PSD reference Level Plot	
	
Spurious Emission 30MHz~10GHz Plot	
	

Channel 30	
100kHz PSD reference Level Plot	**Plot on Channel 30**
	
Spurious Emission 30MHz~10GHz Plot	
	

Number of TX = 1, Ant. 0 (Measured)

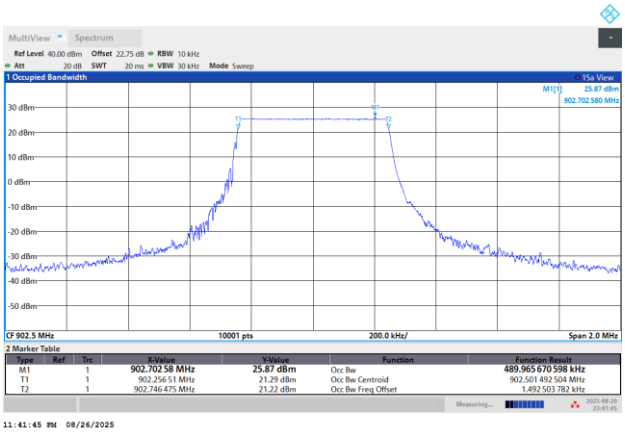
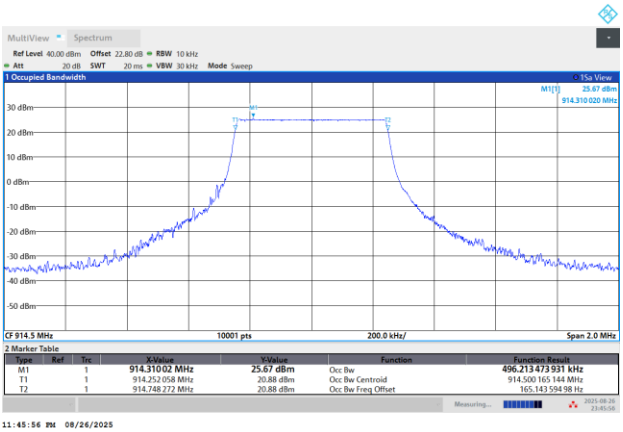
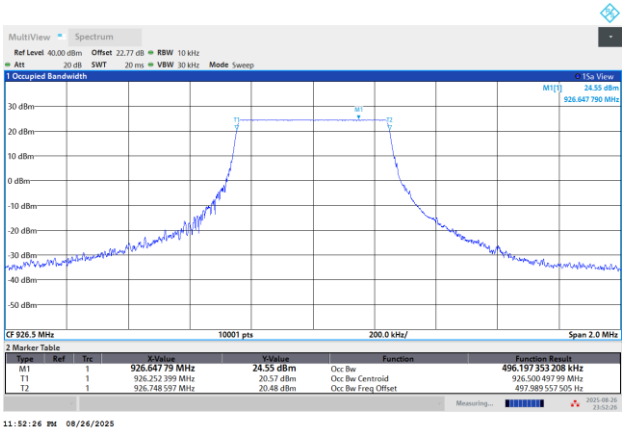
6dB Bandwidth

<SF10>

6 dB Bandwidth Plot on Channel 0	6 dB Bandwidth Plot on Channel 15
	
6 dB Bandwidth Plot on Channel 30	
	

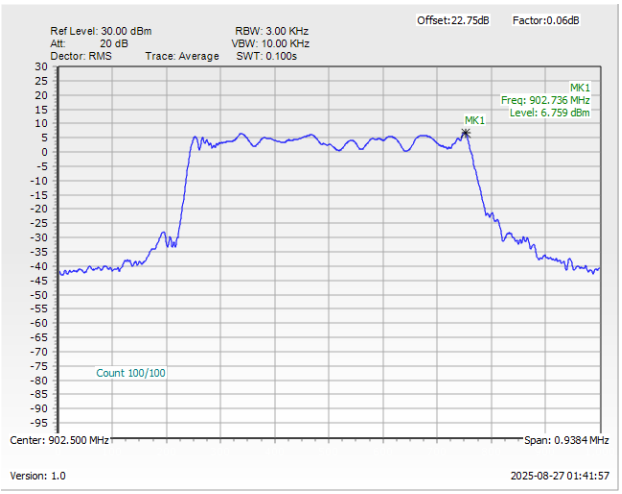
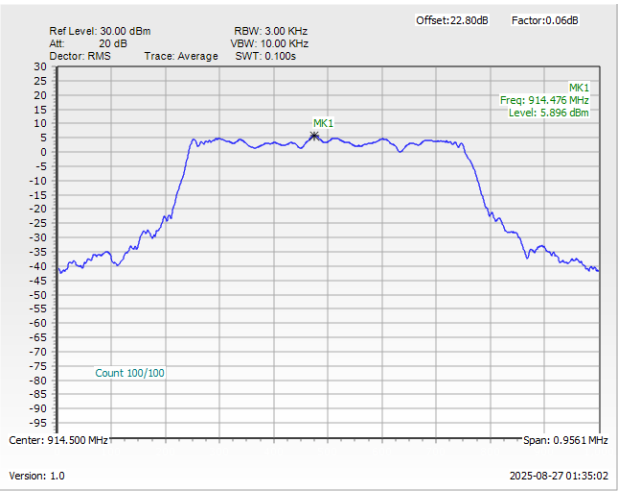
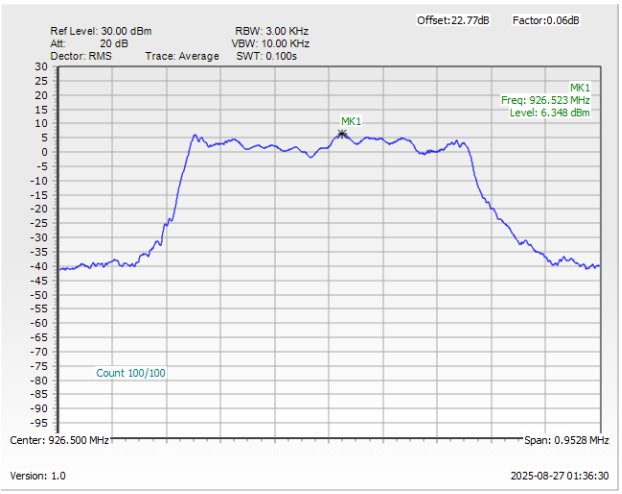
99% Occupied Bandwidth

<SF10>

99% Occupied Bandwidth Plot on Channel 0	99% Occupied Bandwidth Plot on Channel 15
	
99% Occupied Bandwidth Plot on Channel 30	
	

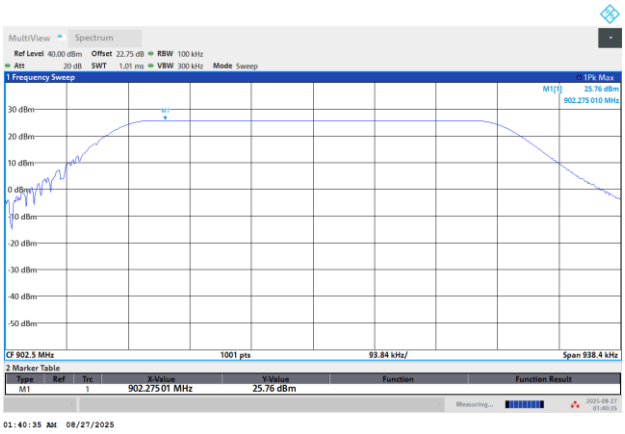
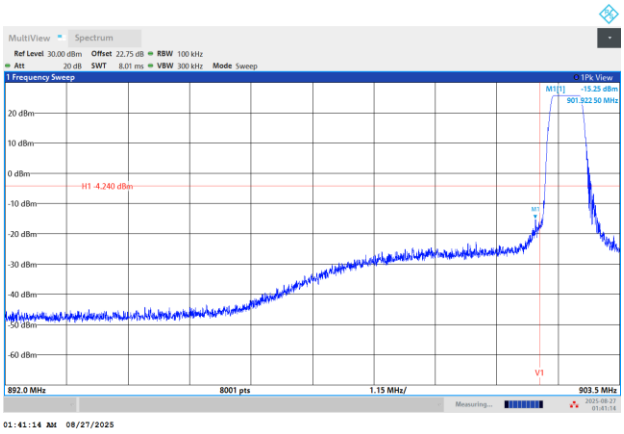
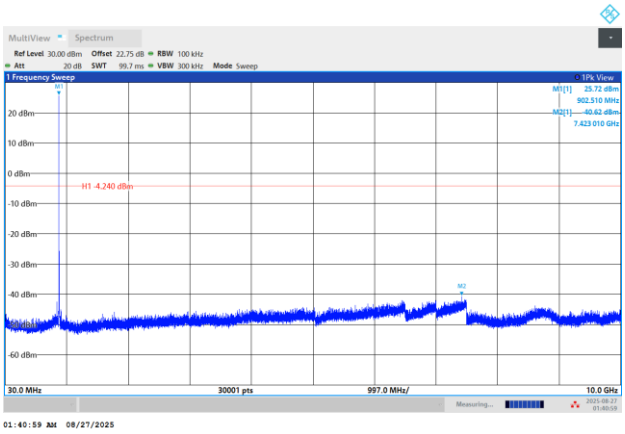
Power Spectral Density (dBm/3kHz)

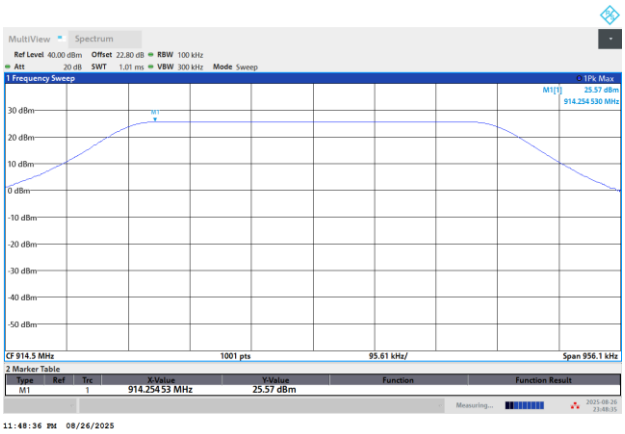
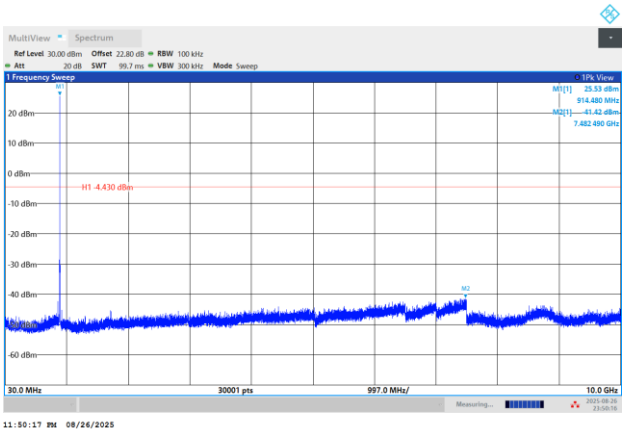
<SF10>

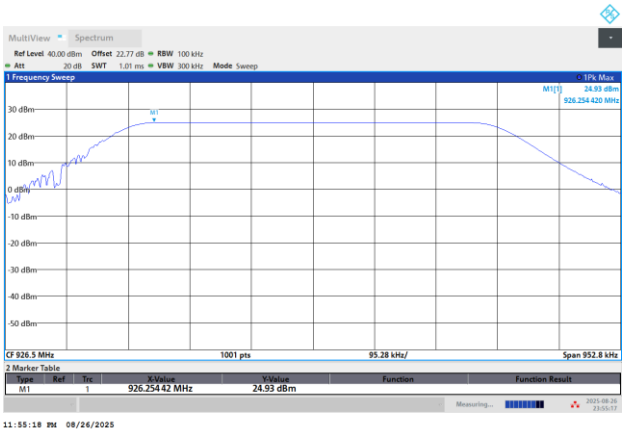
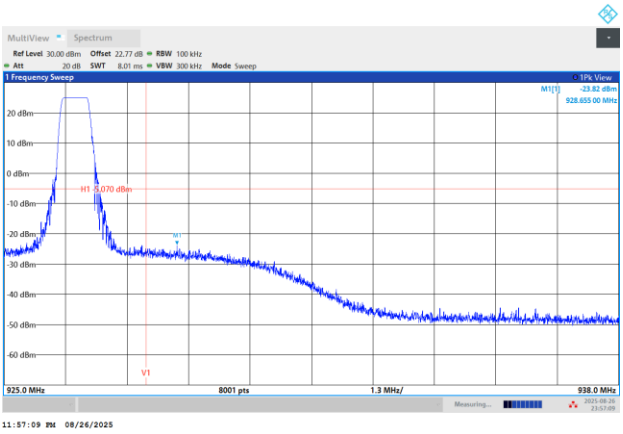
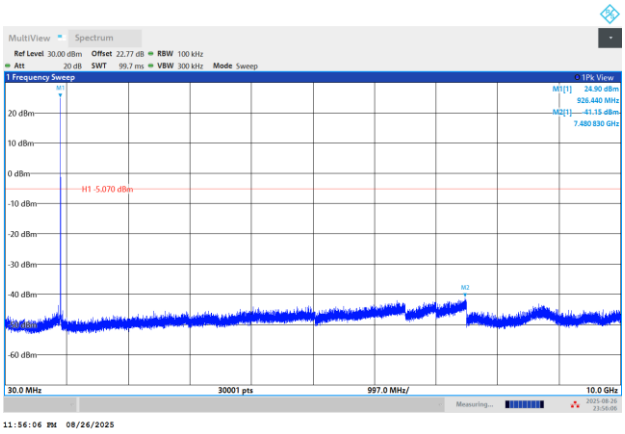
Power Density (dBm/3kHz) Plot Channel 0	Power Density (dBm/3kHz) Plot Channel 15
	
Power Density (dBm/3kHz) Plot Channel 30	
	

Band Edge and Conducted Spurious Emission

<SF10>

Channel 0	
100kHz PSD reference Level Plot	**Plot on Channel 0**
	
Spurious Emission 30MHz~10GHz Plot	
	

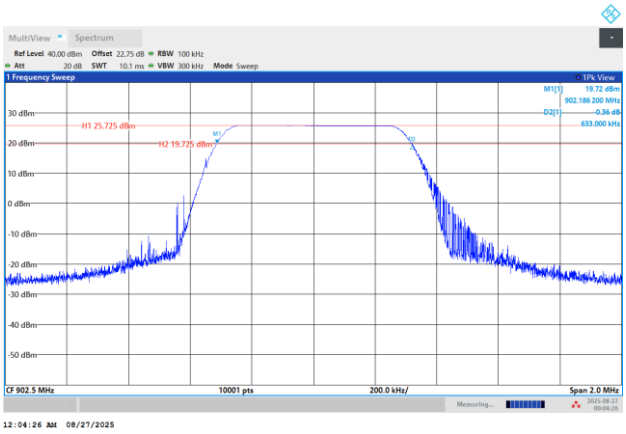
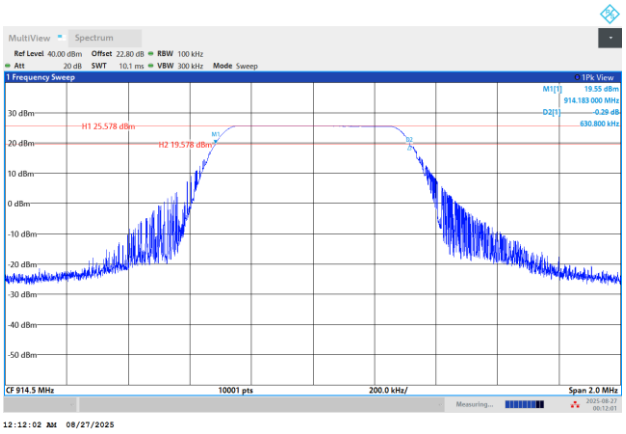
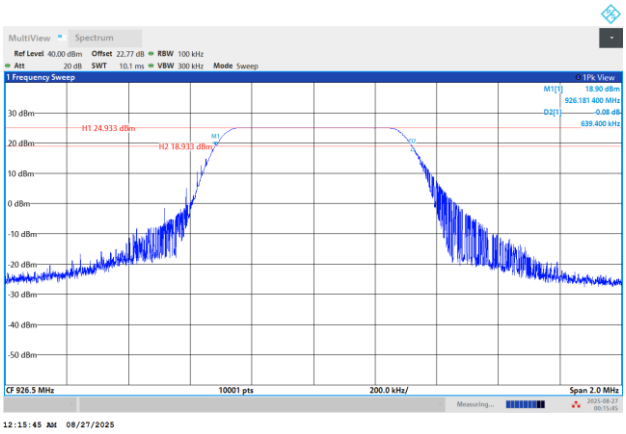
Channel 15	
100kHz PSD reference Level Plot	
	
Spurious Emission 30MHz~10GHz Plot	
	

Channel 30	
100kHz PSD reference Level Plot	**Plot on Channel 30**
	
Spurious Emission 30MHz~10GHz Plot	
	

Number of TX = 1, Ant. 0 (Measured)

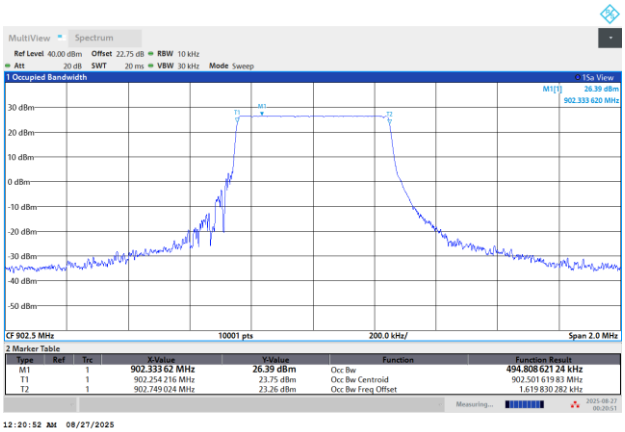
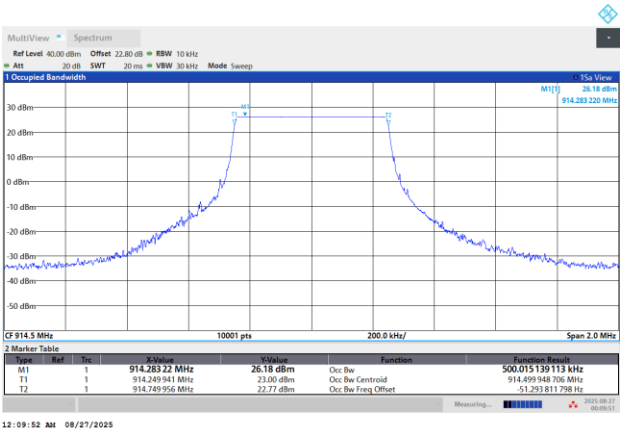
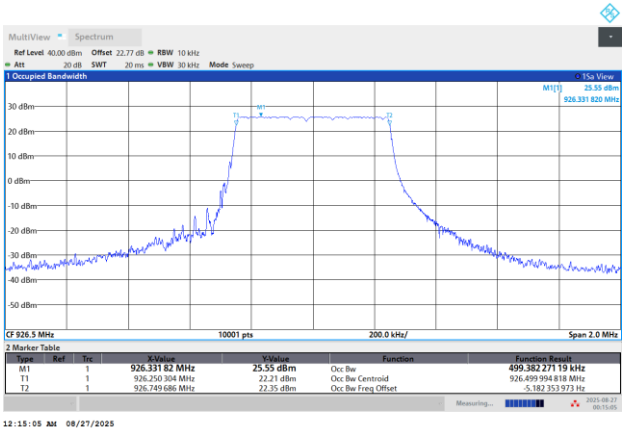
6dB Bandwidth

<SF11>

6 dB Bandwidth Plot on Channel 0	6 dB Bandwidth Plot on Channel 15
	
6 dB Bandwidth Plot on Channel 30	
	

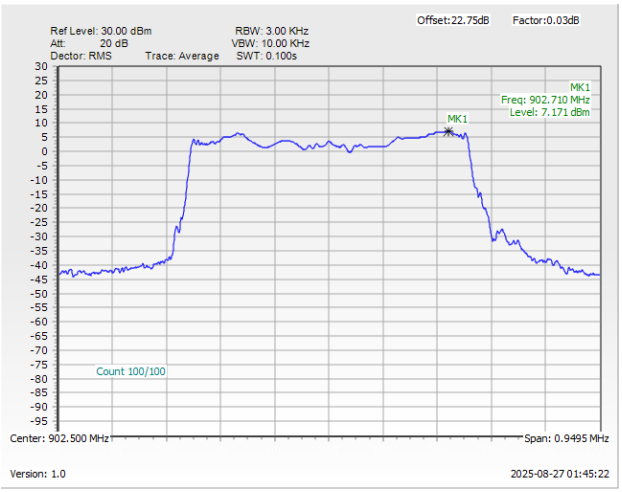
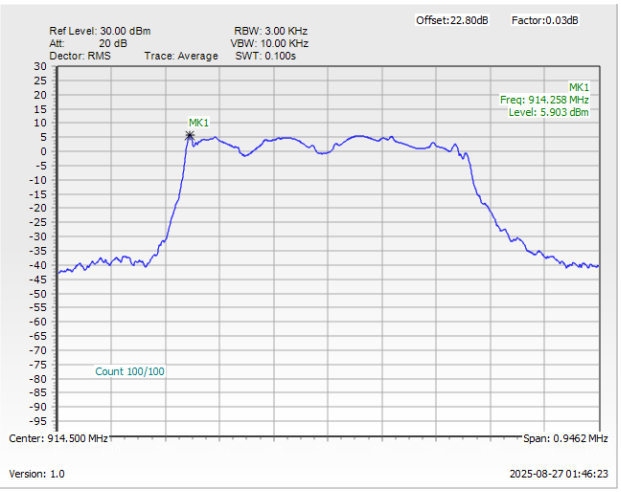
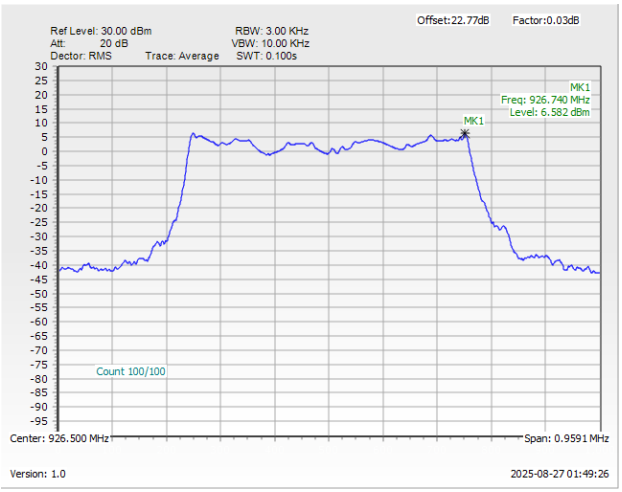
99% Occupied Bandwidth

<SF11>

99% Occupied Bandwidth Plot on Channel 0	99% Occupied Bandwidth Plot on Channel 15
	
99% Occupied Bandwidth Plot on Channel 30	
	

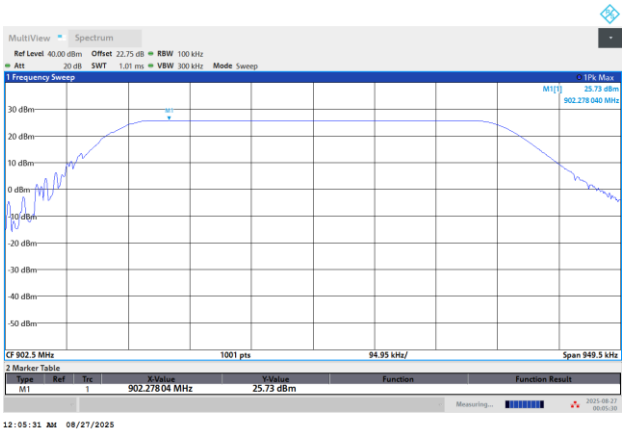
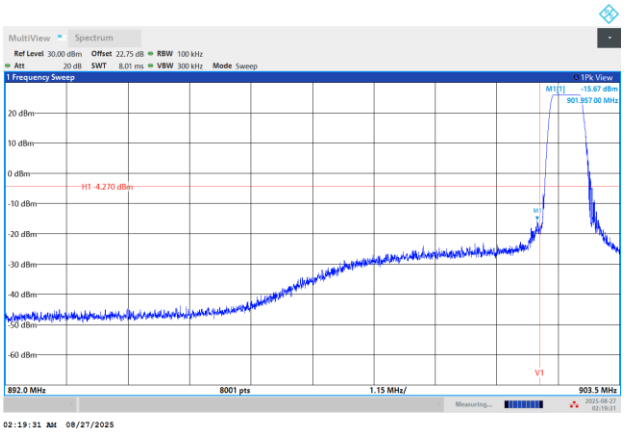
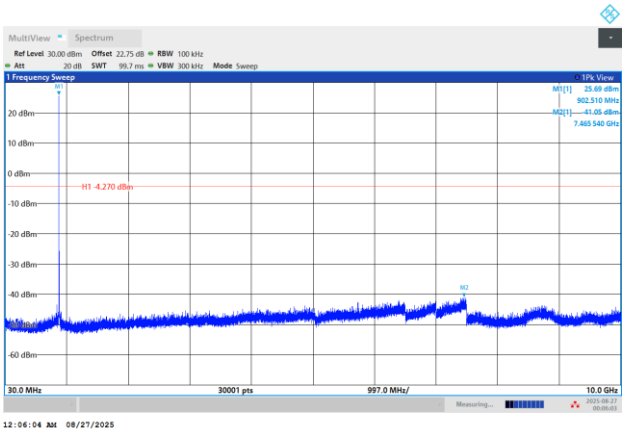
Power Spectral Density (dBm/3kHz)

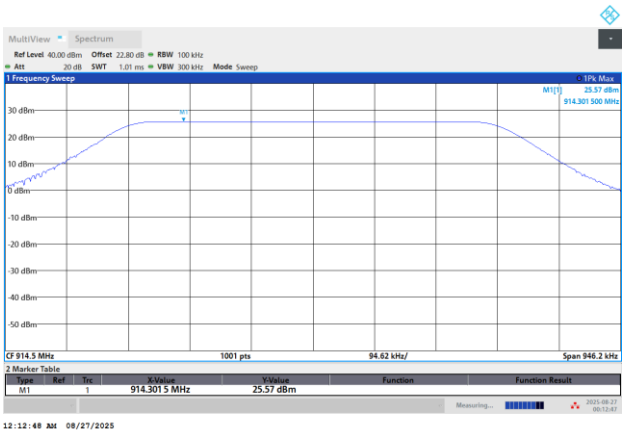
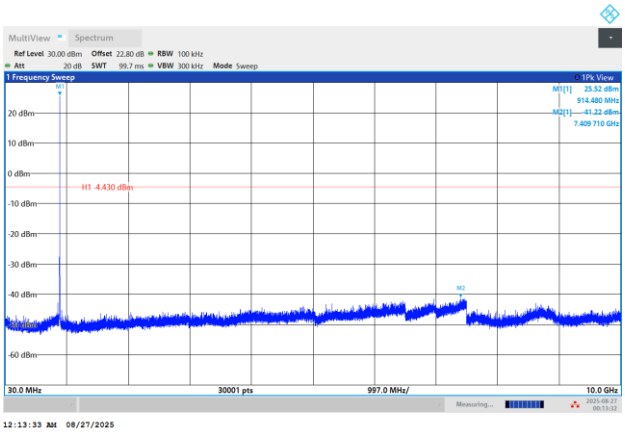
<SF11>

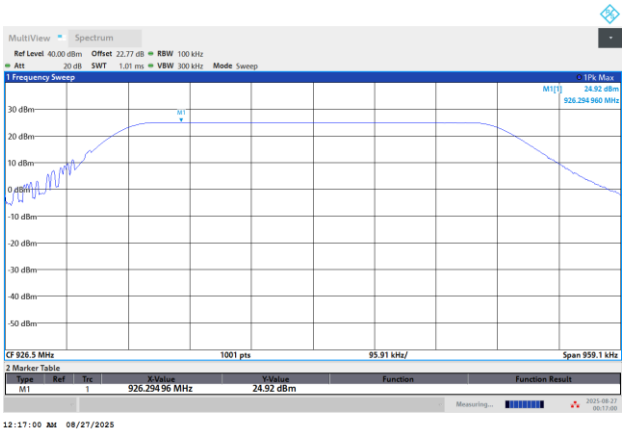
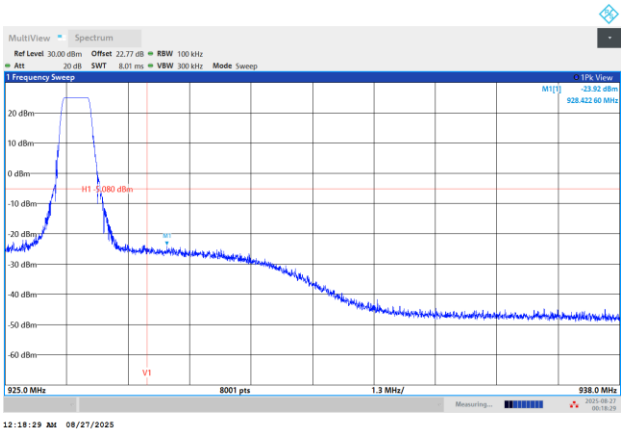
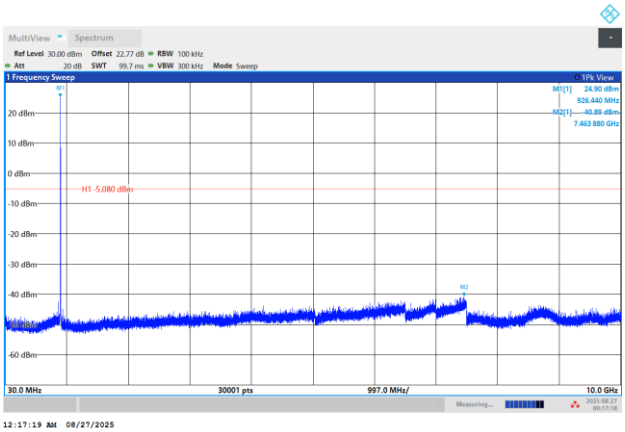
Power Density (dBm/3kHz) Plot Channel 0	Power Density (dBm/3kHz) Plot Channel 15
	
Power Density (dBm/3kHz) Plot Channel 30	
	

Band Edge and Conducted Spurious Emission

<SF11>

Channel 0	
100kHz PSD reference Level Plot	**Plot on Channel 0**
	
Spurious Emission 30MHz~10GHz Plot	
	

Channel 15	
100kHz PSD reference Level Plot	
	
Spurious Emission 30MHz~10GHz Plot	
	

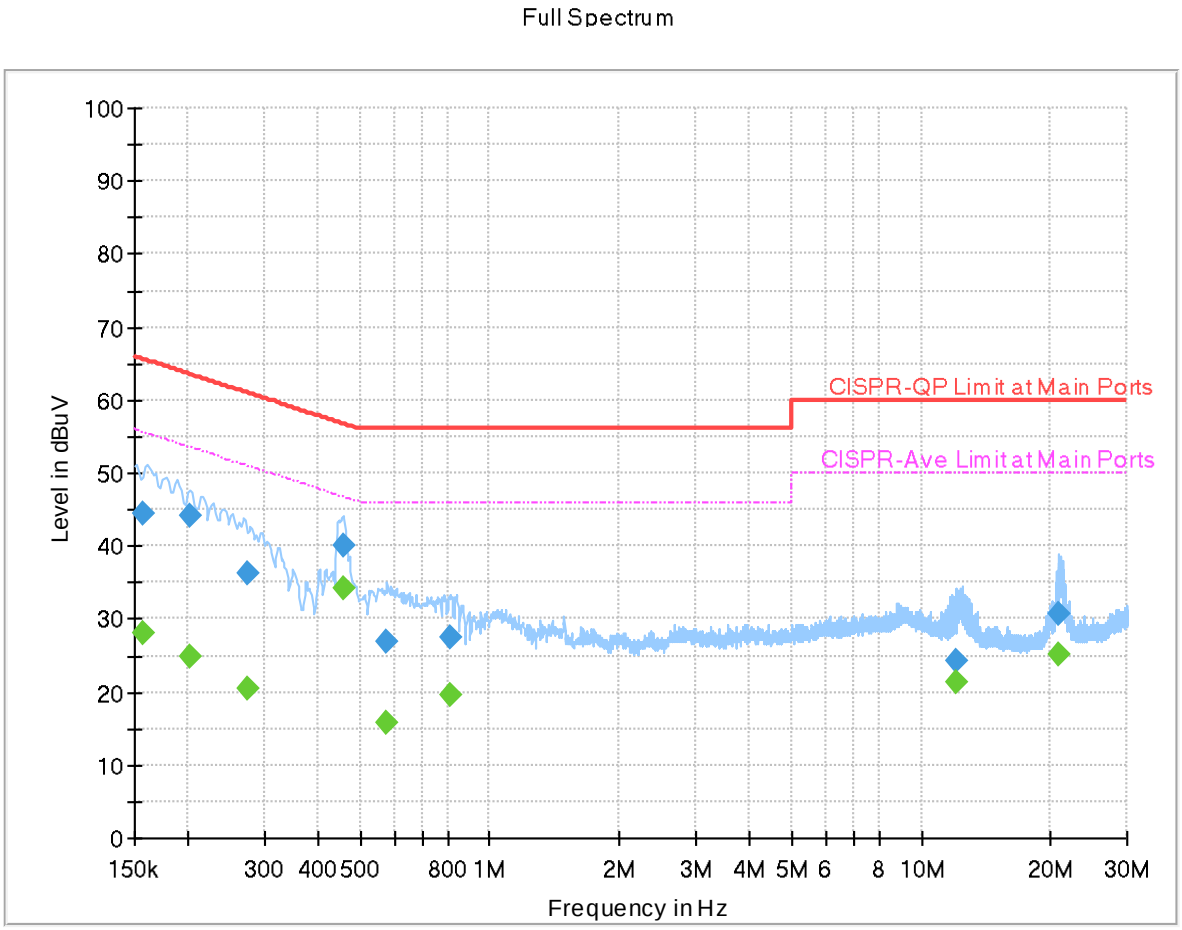
Channel 30	
100kHz PSD reference Level Plot	**Plot on Channel 30**
	
Spurious Emission 30MHz~10GHz Plot	
	

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	23.5~26.6℃
		Relative Humidity :	45.5~57%

EUT Information

Report NO :	561807-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

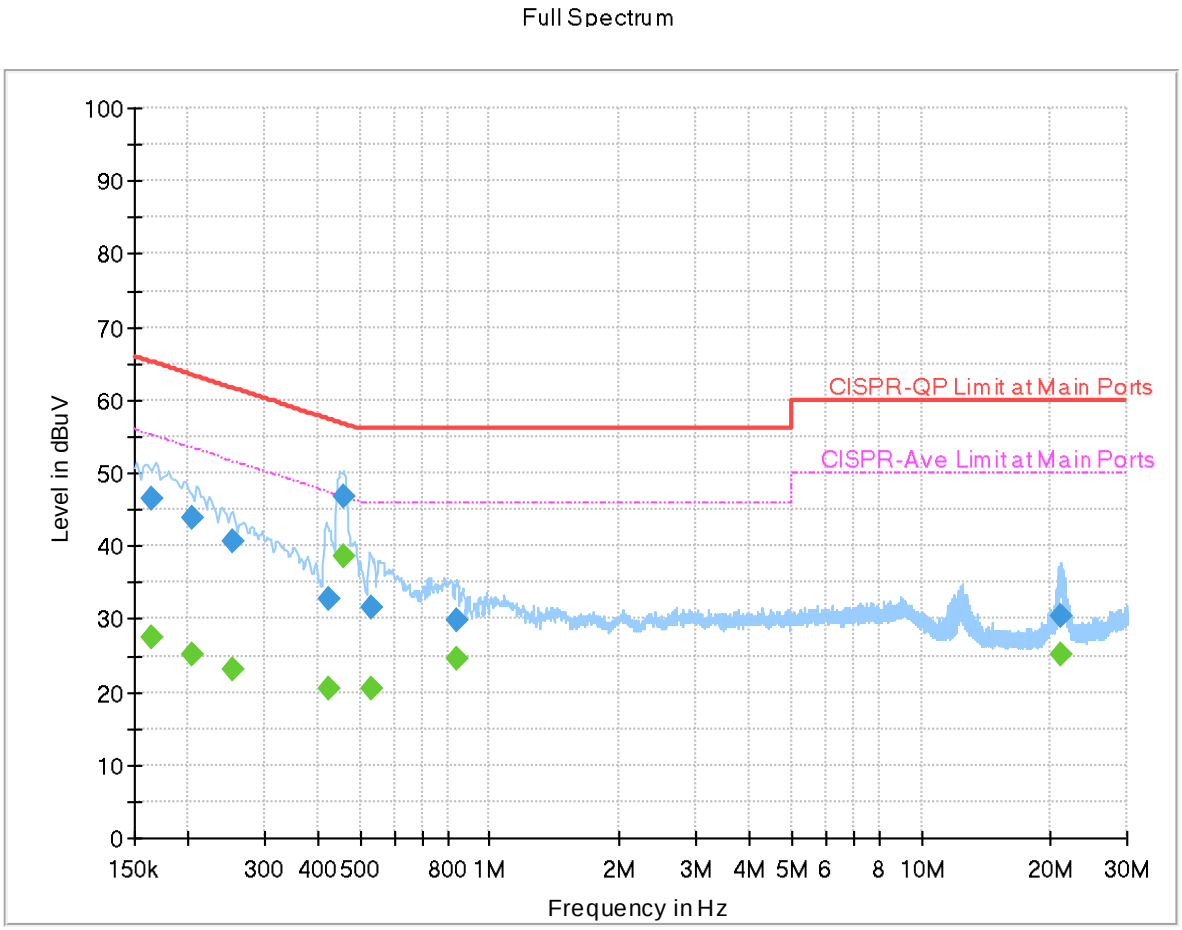


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.157020	---	28.00	55.62	27.62	L1	FLO	20.0
0.157020	44.55	---	65.62	21.07	L1	FLO	20.0
0.202560	---	24.92	53.51	28.59	L1	FLO	20.0
0.202560	44.29	---	63.51	19.22	L1	FLO	20.0
0.273750	---	20.50	51.00	30.50	L1	FLO	20.0
0.273750	36.33	---	61.00	24.67	L1	FLO	20.0
0.459870	---	34.18	46.70	12.52	L1	FLO	20.0
0.459870	40.17	---	56.70	16.53	L1	FLO	20.0
0.574350	---	15.90	46.00	30.10	L1	FLO	20.0
0.574350	26.90	---	56.00	29.10	L1	FLO	20.0
0.813750	---	19.68	46.00	26.32	L1	FLO	20.0
0.813750	27.56	---	56.00	28.44	L1	FLO	20.0
12.039630	---	21.33	50.00	28.67	L1	FLO	20.5
12.039630	24.40	---	60.00	35.60	L1	FLO	20.5
20.951250	---	25.09	50.00	24.91	L1	FLO	20.8
20.951250	30.82	---	60.00	29.18	L1	FLO	20.8

EUT Information

Report NO :	561807-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.163500	---	27.35	55.28	27.93	N	FLO	20.0
0.163500	46.48	---	65.28	18.80	N	FLO	20.0
0.204000	---	25.10	53.45	28.35	N	FLO	20.0
0.204000	43.92	---	63.45	19.53	N	FLO	20.0
0.253500	---	23.18	51.64	28.46	N	FLO	20.0
0.253500	40.71	---	61.64	20.93	N	FLO	20.0
0.424500	---	20.56	47.36	26.80	N	FLO	20.0
0.424500	32.67	---	57.36	24.69	N	FLO	20.0
0.458430	---	38.60	46.72	8.12	N	FLO	20.0
0.458430	46.83	---	56.72	9.89	N	FLO	20.0
0.532500	---	20.52	46.00	25.48	N	FLO	20.0
0.532500	31.49	---	56.00	24.51	N	FLO	20.0
0.837960	---	24.53	46.00	21.47	N	FLO	20.0
0.837960	29.77	---	56.00	26.23	N	FLO	20.0
21.153030	---	25.29	50.00	24.71	N	FLO	20.9
21.153030	30.31	---	60.00	29.69	N	FLO	20.9

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Ken Kuo and York Huang	**Temperature :**	21.2~24.4°C
		Relative Humidity :	54.8~60.2%

Note symbol

-L	**Low channel location**
-R	**High channel location**

C1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	902-928	0	Lora DTS	0	902.5	SF7	-	-
Mode 2	902-928	0	Lora DTS	15	914.5	SF7	-	-
Mode 3	902-928	0	Lora DTS	30	926.5	SF7	-	-
Mode 4	902-928	0	Lora DTS	0	902.5	SF8	-	-
Mode 5	902-928	0	Lora DTS	15	914.5	SF8	-	-
Mode 6	902-928	0	Lora DTS	30	926.5	SF8	-	-
Mode 7	902-928	0	Lora DTS	0	902.5	SF9	-	-
Mode 8	902-928	0	Lora DTS	15	914.5	SF9	-	-
Mode 9	902-928	0	Lora DTS	30	926.5	SF9	-	-
Mode 10	902-928	0	Lora DTS	0	902.5	SF10	-	-
Mode 11	902-928	0	Lora DTS	15	914.5	SF10	-	-

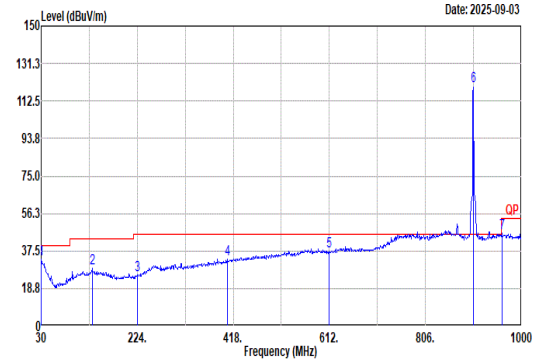
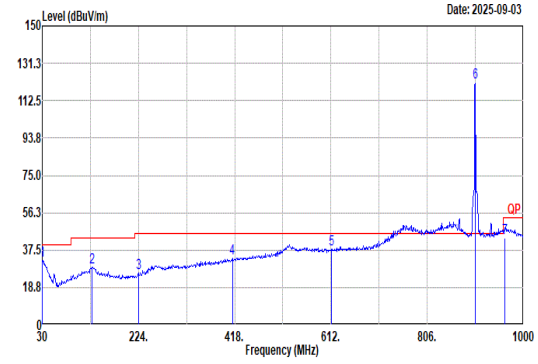
Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 12	902-928	0	Lora DTS	30	926.5	SF10	-	-
Mode 13	902-928	0	Lora DTS	0	902.5	SF11	-	-
Mode 14	902-928	0	Lora DTS	15	914.5	SF11	-	-
Mode 15	902-928	0	Lora DTS	30	926.5	SF11	-	-

C2. Summary of each worse mode

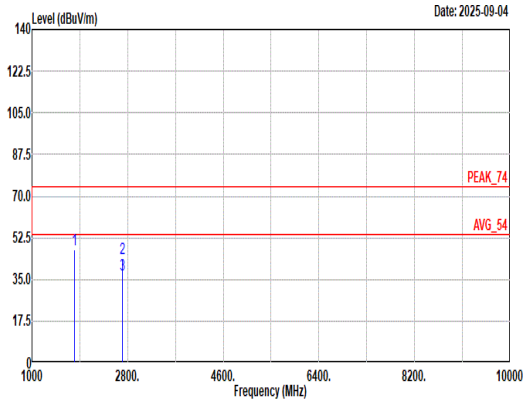
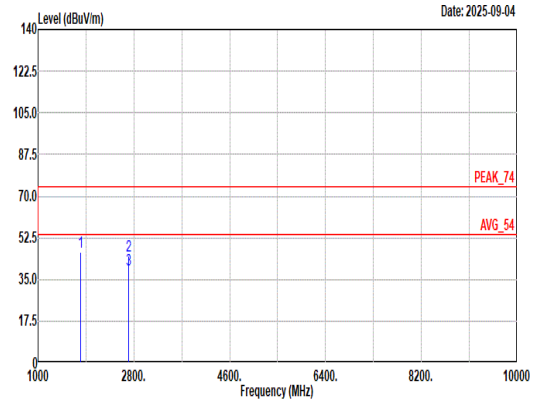
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	Lora DTS	0	30.00	33.65	40.00	-6.35	H	Peak	Pass	-	LF
	Lora DTS	0	2707.50	38.89	54.00	-15.11	V	Avg.	Pass	-	Harmonic
2	Lora DTS	15	30.00	33.38	40.00	-6.62	V	Peak	Pass	-	LF
	Lora DTS	15	2743.50	42.12	54.00	-11.88	V	Avg.	Pass	-	Harmonic
3	Lora DTS	30	30.00	33.79	40.00	-6.21	V	Peak	Pass	-	LF
	Lora DTS	30	8338.50	39.81	54.00	-14.19	H	Avg.	Pass	-	Harmonic
4	Lora DTS	0	534.40	39.72	46.00	-6.28	V	Peak	Pass	-	LF
	Lora DTS	0	2707.50	39.56	54.00	-14.44	V	Avg.	Pass	-	Harmonic
5	Lora DTS	15	30.00	33.07	40.00	-6.93	H	Peak	Pass	-	LF
	Lora DTS	15	2743.50	36.62	54.00	-17.38	V	Avg.	Pass	-	Harmonic
6	Lora DTS	30	30.00	32.83	40.00	-7.17	V	Peak	Pass	-	LF

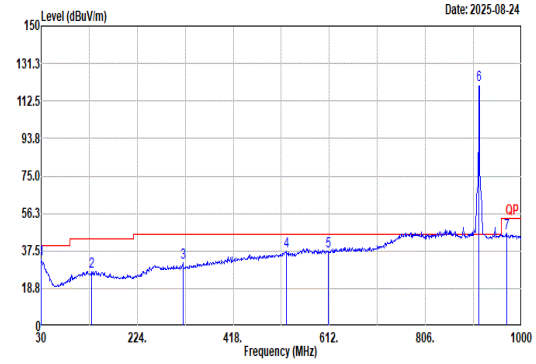
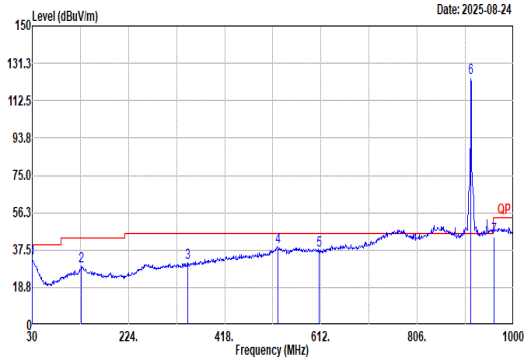
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
6	Lora DTS	30	2779.50	33.60	54.00	-20.40	V	Avg.	Pass	-	Harmonic
7	Lora DTS	0	530.52	39.96	46.00	-6.04	V	Peak	Pass	-	LF
	Lora DTS	0	2707.50	38.11	54.00	-15.89	V	Avg.	Pass	-	Harmonic
8	Lora DTS	15	30.00	33.32	40.00	-6.68	H	Peak	Pass	-	LF
	Lora DTS	15	1829.00	43.23	74.00	-30.77	H	Peak	Pass	-	Harmonic
9	Lora DTS	30	30.00	33.54	40.00	-6.46	V	Peak	Pass	-	LF
	Lora DTS	30	2779.50	38.82	54.00	-15.18	V	Avg.	Pass	-	Harmonic
10	Lora DTS	0	523.73	39.93	46.00	-6.07	V	Peak	Pass	-	LF
	Lora DTS	0	2707.50	37.02	54.00	-16.98	V	Avg.	Pass	-	Harmonic
11	Lora DTS	15	30.00	33.07	40.00	-6.93	V	Peak	Pass	-	LF
	Lora DTS	15	2743.50	45.50	54.00	-8.50	V	Avg.	Pass	-	Harmonic

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
12	Lora DTS	30	30.00	33.35	40.00	-6.65	V	Peak	Pass	-	LF
	Lora DTS	30	2779.50	46.07	54.00	-7.93	V	Avg.	Pass	-	Harmonic
13	Lora DTS	0	527.61	39.99	46.00	-6.01	V	Peak	Pass	-	LF
	Lora DTS	0	2707.50	43.50	54.00	-10.50	V	Avg.	Pass	-	Harmonic
14	Lora DTS	15	30.00	32.78	40.00	-7.22	V	Peak	Pass	-	LF
	Lora DTS	15	9145.00	43.31	54.00	-10.69	H	Avg.	Pass	-	Harmonic
15	Lora DTS	30	30.00	33.91	40.00	-6.09	H	Peak	Pass	-	LF
	Lora DTS	30	1853.00	52.01	74.00	-21.99	V	Peak	Pass	-	Harmonic

Mode	1	
	LF	
	902-928_Lora DTS_CH0_902.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 HORIZONTAL Mode : 1 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 33.65 40.00 -6.35 30.49 25.30 0.85 32.57 9.58 -- -- Peak 2 132.82 28.63 43.50 -14.87 32.29 17.40 1.87 32.52 9.59 -- -- Peak 3 224.00 25.38 46.00 -20.62 30.22 15.62 2.42 32.49 9.61 -- -- Peak 4 405.39 33.48 46.00 -12.52 30.99 22.02 3.40 32.57 9.64 -- -- Peak 5 611.03 37.12 46.00 -8.88 30.29 25.78 4.11 32.69 9.63 -- -- Peak 6 902.50 120.25 ------ ------ 108.16 29.20 4.95 31.69 9.63 160 173 Peak 7 960.23 46.65 54.00 -7.35 31.54 31.50 5.09 31.11 9.63 -- -- Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 VERTICAL Mode : 1 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 32.51 40.00 -7.49 29.35 25.30 0.85 32.57 9.58 -- -- Peak 2 129.91 28.70 43.50 -14.80 32.30 17.50 1.84 32.52 9.58 -- -- Peak 3 224.00 25.81 46.00 -20.19 30.65 15.62 2.42 32.49 9.61 -- -- Peak 4 413.15 33.12 46.00 -12.88 30.23 22.39 3.44 32.57 9.63 -- -- Peak 5 612.97 37.69 46.00 -8.31 30.88 25.74 4.12 32.68 9.63 -- -- Peak 6 902.50 121.81 ------ ------ 109.72 29.20 4.95 31.69 9.63 109 250 Peak 7 962.17 43.67 54.00 -10.33 28.58 31.46 5.09 31.09 9.63 100 261 QP	

Remark: The unwanted signal falls within the non-restricted band and meet the requirements of 15.247 (d).

Mode	1	
	Harmonic	
	902-928_Lora DTS_CH0_902.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1805.00 47.35 74.00 -26.65 46.75 24.75 6.99 32.17 0.30 296 63 Peak 2 2707.50 43.82 74.00 -30.18 39.54 27.50 8.43 32.69 0.55 396 142 Peak 3 2707.50 37.06 54.00 -16.94 32.78 27.50 8.43 32.69 0.55 396 142 Average	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1805.00 46.69 74.00 -27.31 46.09 24.75 6.99 32.17 0.30 382 10 Peak 2 2707.50 44.84 74.00 -29.16 40.56 27.50 8.43 32.69 0.55 100 346 Peak 3 2707.50 38.89 54.00 -15.11 34.61 27.50 8.43 32.69 0.55 100 346 Average

Mode	2	
	LF	
	902-928_Lora DTS_CH15_914.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak		

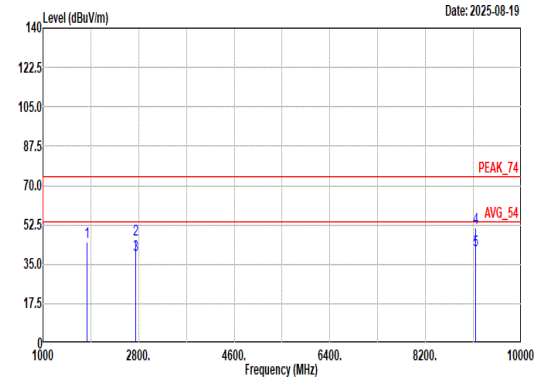
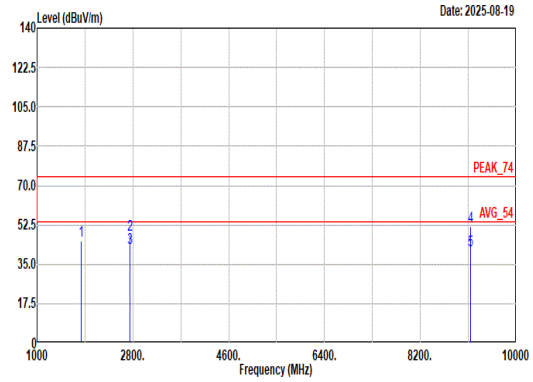
Site : 03CH22-HY
Condition: QP 3m Bilog_63304_241217 HORIZONTAL
Mode : 2

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	30.00	33.16	40.00	-6.84	30.00	25.30	0.85	32.57	9.58	--	--	Peak
2	131.85	27.24	43.50	-16.26	30.90	17.41	1.86	32.52	9.59	--	--	Peak
3	316.15	31.72	46.00	-14.28	32.31	19.40	2.92	32.53	9.62	--	--	Peak
4	525.67	37.46	46.00	-8.54	32.76	24.00	3.74	32.67	9.63	--	--	Peak
5	610.06	37.50	46.00	-8.50	30.65	25.80	4.11	32.69	9.63	--	--	Peak
6	914.50	120.45	------	------	108.04	29.38	4.97	31.57	9.63	154	165	Peak
7	969.93	46.23	54.00	-7.77	31.20	31.30	5.11	31.01	9.63	--	--	Peak

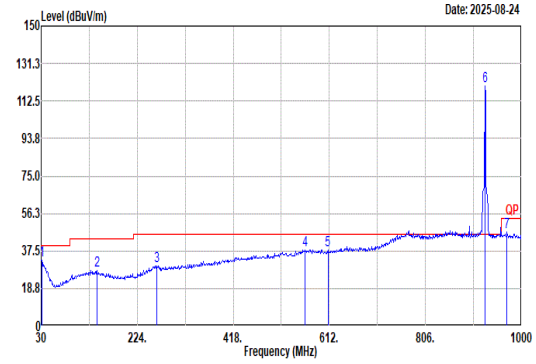
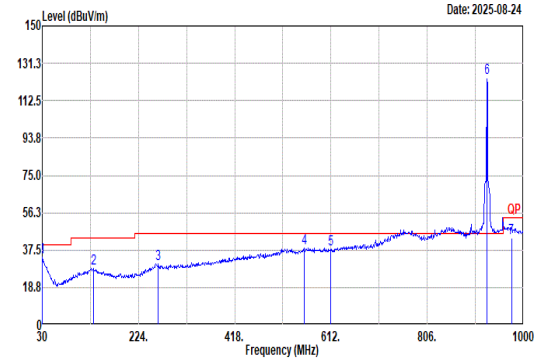
Site : 03CH22-HY
Condition: QP 3m Bilog_63304_241217 VERTICAL
Mode : 2

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	30.00	33.38	40.00	-6.62	30.22	25.30	0.85	32.57	9.58	--	--	Peak
2	128.94	29.27	43.50	-14.23	32.89	17.49	1.83	32.52	9.58	--	--	Peak
3	343.31	30.86	46.00	-15.14	30.52	20.23	3.03	32.54	9.62	--	--	Peak
4	524.70	39.05	46.00	-6.95	34.34	24.01	3.73	32.67	9.64	--	--	Peak
5	608.12	37.30	46.00	-8.70	30.45	25.80	4.10	32.69	9.64	--	--	Peak
6	914.50	123.71	------	------	111.30	29.38	4.97	31.57	9.63	112	225	Peak
7	960.23	43.87	54.00	-10.13	28.76	31.50	5.09	31.11	9.63	106	261	QP

Remark: The unwanted signal falls within the non-restricted band and meet the requirements of 15.247 (d).

Mode	2	
	Harmonic	
	902-928_Lora DTS_CH15_914.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1829.00 44.92 74.00 -29.08 44.05 24.99 7.04 32.19 0.32 292 360 Peak 2 2743.50 46.03 74.00 -27.97 41.72 27.50 8.48 32.69 0.54 264 169 Peak 3 2743.50 39.24 54.00 -14.76 34.93 27.50 8.48 32.69 0.54 264 169 Average 4 9145.00 51.43 74.00 -22.57 34.98 37.31 16.01 38.35 0.97 191 1 Peak 5 9145.00 41.23 54.00 -12.77 24.78 37.31 16.01 38.35 0.97 191 1 Average	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1829.00 45.28 74.00 -28.72 44.41 24.99 7.04 32.19 0.32 185 73 Peak 2 2743.50 48.09 74.00 -25.91 43.78 27.50 8.48 32.69 0.54 200 160 Peak 3 2743.50 42.12 54.00 -11.88 37.81 27.50 8.48 32.69 0.54 200 160 Average 4 9145.00 51.72 74.00 -22.28 35.27 37.31 16.01 38.35 0.97 292 141 Peak 5 9145.00 41.14 54.00 -12.86 24.69 37.31 16.01 38.35 0.97 292 141 Average

Mode	3
	LF
	902-928_Lora DTS_CH30_926.5MHz
ANT	0

Pol.	Horizontal	Vertical
Peak		

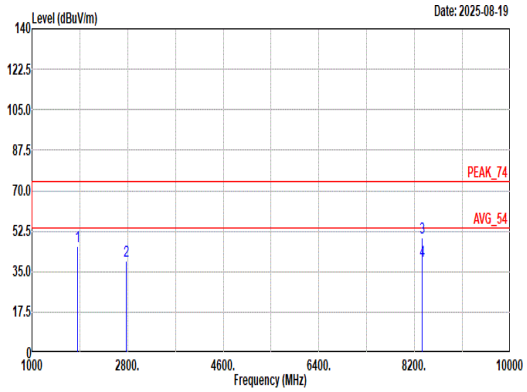
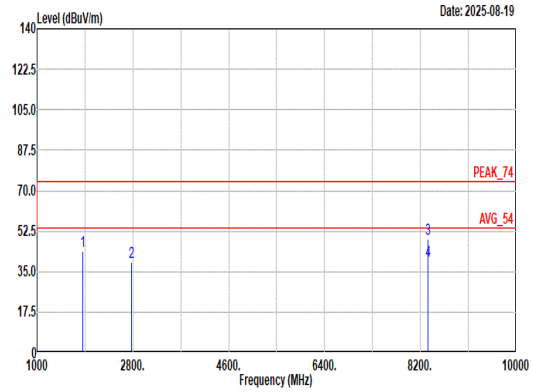
Site : 03CH22-HY
Condition: QP 3m Bilog_63304_241217 HORIZONTAL
Mode : 3

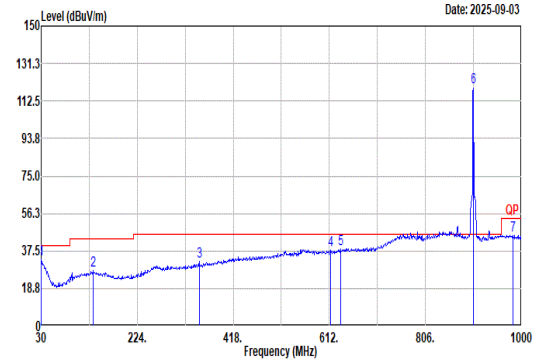
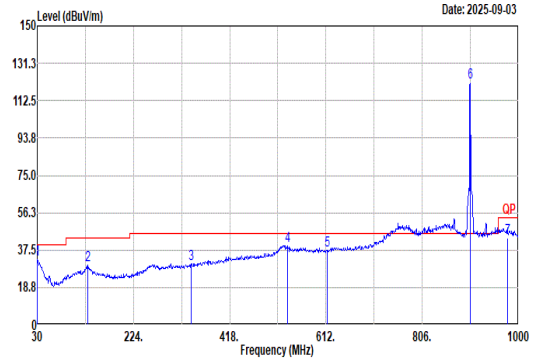
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	31.94	32.95	40.00	-7.05	31.05	24.02	0.87	32.57	9.58	--	--	Peak
2	142.52	27.48	43.50	-16.02	31.12	17.35	1.95	32.53	9.59	--	--	Peak
3	262.80	30.22	46.00	-15.78	30.33	20.14	2.65	32.51	9.61	--	--	Peak
4	562.53	37.83	46.00	-8.17	30.66	26.35	3.87	32.68	9.63	--	--	Peak
5	609.09	37.89	46.00	-8.11	31.05	25.80	4.10	32.69	9.63	--	--	Peak
6	926.50	120.27	------	------	107.26	29.83	5.00	31.45	9.63	146	170	Peak
7	970.90	46.75	54.00	-7.25	31.76	31.25	5.11	31.00	9.63	--	--	Peak

Site : 03CH22-HY
Condition: QP 3m Bilog_63304_241217 VERTICAL
Mode : 3

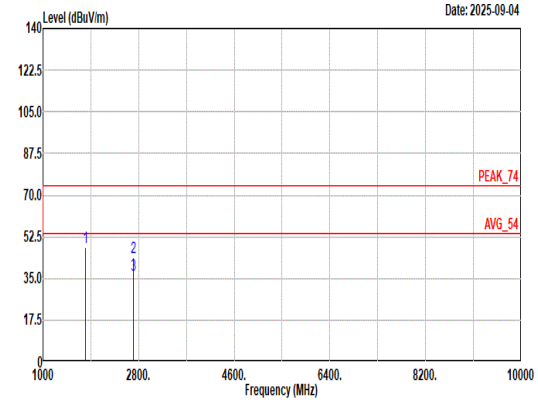
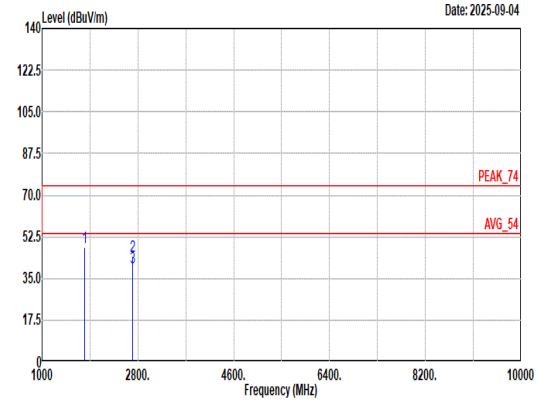
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	30.00	33.79	40.00	-6.21	30.63	25.30	0.85	32.57	9.58	--	--	Peak
2	132.82	28.08	43.50	-15.42	31.74	17.40	1.87	32.52	9.59	--	--	Peak
3	263.77	30.64	46.00	-15.36	30.76	20.12	2.66	32.51	9.61	--	--	Peak
4	557.68	38.52	46.00	-7.48	31.66	26.07	3.84	32.68	9.63	--	--	Peak
5	612.00	37.81	46.00	-8.19	31.00	25.76	4.11	32.69	9.63	--	--	Peak
6	926.50	124.01	------	------	111.00	29.83	5.00	31.45	9.63	111	236	Peak
7	975.75	43.75	54.00	-10.25	28.94	30.99	5.13	30.95	9.64	100	261	QP

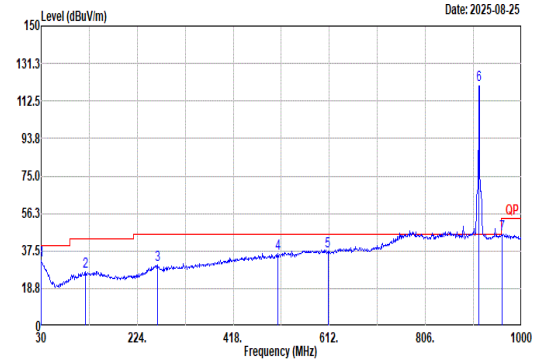
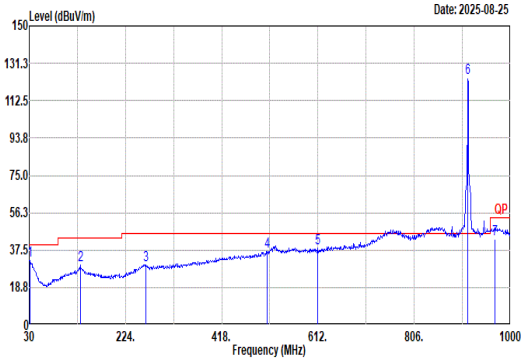
Remark: The unwanted signal falls within the non-restricted band and meet the requirements of 15.247 (d).

Mode	3	
	Harmonic	
	902-928_Lora DTS_CH30_926.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1853.00 45.71 74.00 -28.29 44.75 25.03 7.09 32.21 0.35 232 360 Peak 2 2779.50 39.48 74.00 -34.52 35.05 27.60 8.53 32.70 0.53 -- -- Peak 3 8338.50 49.70 74.00 -24.30 33.32 37.08 15.20 37.25 0.92 -- -- Peak 4 8338.50 39.81 54.00 -14.19 23.43 37.08 15.20 37.25 0.92 -- -- Average	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1853.00 44.11 74.00 -29.89 43.15 25.03 7.09 32.21 0.35 247 348 Peak 2 2779.50 39.22 74.00 -34.78 34.79 27.60 8.53 32.70 0.53 -- -- Peak 3 8338.50 49.18 74.00 -24.82 32.80 37.08 15.20 37.25 0.92 -- -- Peak 4 8338.50 39.60 54.00 -14.40 23.22 37.08 15.20 37.25 0.92 -- -- Average

Mode	4	
	LF	
	902-928_Lora DTS_CH0_902.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 HORIZONTAL Mode : 4 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 33.22 40.00 -6.78 30.06 25.30 0.85 32.57 9.58 -- -- Peak 2 134.76 27.71 43.50 -15.79 31.34 17.42 1.88 32.52 9.59 -- -- Peak 3 349.13 32.34 46.00 -13.66 31.73 20.47 3.06 32.54 9.62 -- -- Peak 4 613.94 37.82 46.00 -8.18 31.03 25.72 4.12 32.68 9.63 -- -- Peak 5 634.31 38.69 46.00 -7.31 31.07 26.49 4.19 32.68 9.62 -- -- Peak 6 902.50 119.43 ------ ------ 107.34 29.20 4.95 31.69 9.63 151 220 Peak 7 983.51 45.42 54.00 -8.58 30.68 30.83 5.15 30.88 9.64 -- -- Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 VERTICAL Mode : 4 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 32.74 40.00 -7.26 29.58 25.30 0.85 32.57 9.58 -- -- Peak 2 131.85 30.11 43.50 -13.39 33.77 17.41 1.86 32.52 9.59 -- -- Peak 3 340.40 30.84 46.00 -15.16 30.62 20.12 3.02 32.54 9.62 -- -- Peak 4 534.40 39.72 46.00 -6.28 35.09 23.91 3.76 32.67 9.63 -- -- Peak 5 613.94 37.60 46.00 -8.40 30.81 25.72 4.12 32.68 9.63 -- -- Peak 6 902.50 121.64 46.00 75.64 109.55 29.20 4.95 31.69 9.63 113 250 Peak 7 977.69 43.41 54.00 -10.59 28.63 30.95 5.13 30.94 9.64 101 264 QP

Remark: The unwanted signal falls within the non-restricted band and meet the requirements of 15.247 (d).

Mode	4	
	Harmonic	
	902-928_Lora DTS_CH0_902.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1805.00 48.25 74.00 -25.75 47.65 24.75 6.99 32.17 0.30 296 64 Peak 2 2707.50 43.99 74.00 -30.01 39.71 27.50 8.43 32.69 0.55 393 141 Peak 3 2707.50 36.69 54.00 -17.31 32.41 27.50 8.43 32.69 0.55 393 141 Average	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1805.00 48.13 74.00 -25.87 47.53 24.75 6.99 32.17 0.30 280 10 Peak 2 2707.50 44.44 74.00 -29.56 40.16 27.50 8.43 32.69 0.55 100 349 Peak 3 2707.50 39.56 54.00 -14.44 35.28 27.50 8.43 32.69 0.55 100 349 Average

Mode	5	
	LF	
	902-928_Lora DTS_CH15_914.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 HORIZONTAL Mode : 5	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 VERTICAL Mode : 5

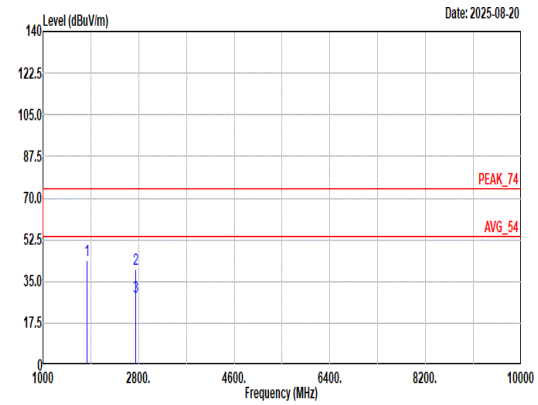
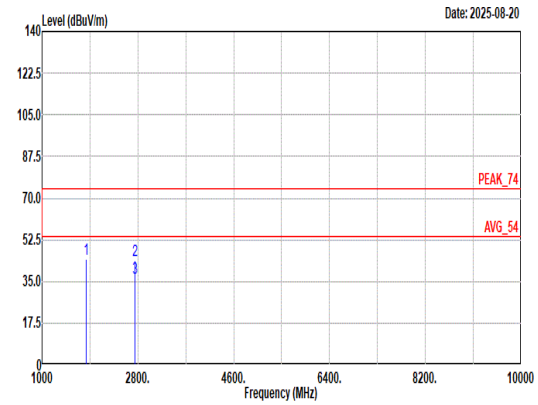
Horizontal:

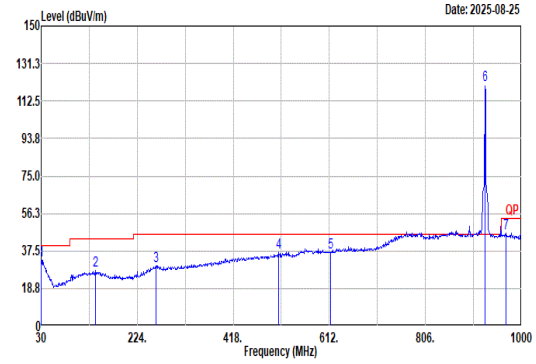
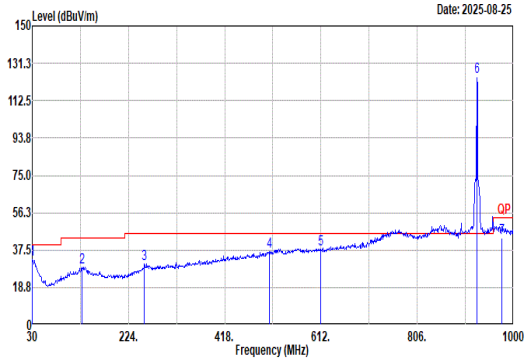
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	30.00	33.07	40.00	-6.93	29.91	25.30	0.85	32.57	9.58	--	--	Peak
2	119.24	27.28	43.50	-16.22	31.15	17.32	1.75	32.52	9.58	--	--	Peak
3	265.71	30.30	46.00	-15.70	30.57	19.96	2.67	32.51	9.61	--	--	Peak
4	507.24	36.05	46.00	-9.95	31.28	24.10	3.69	32.66	9.64	--	--	Peak
5	609.09	37.25	46.00	-8.75	30.41	25.80	4.10	32.69	9.63	--	--	Peak
6	914.50	120.80	------	------	108.39	29.38	4.97	31.57	9.63	160	119	Peak
7	961.20	45.89	54.00	-8.11	30.79	31.48	5.09	31.10	9.63	--	--	Peak

Vertical:

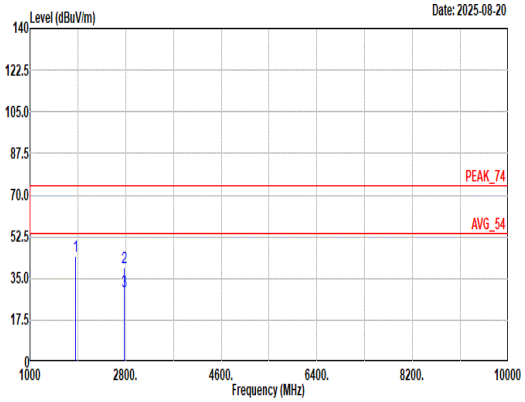
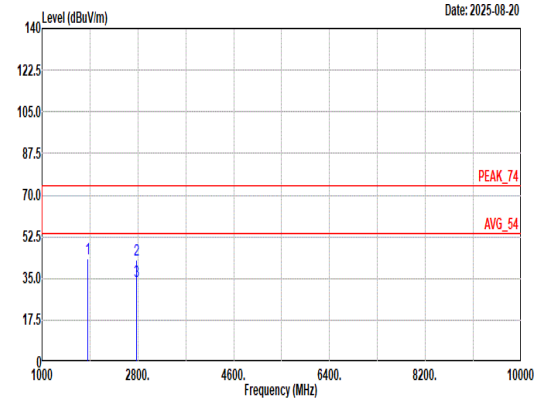
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	30.97	32.37	40.00	-7.63	30.07	24.43	0.86	32.57	9.58	--	--	Peak
2	132.82	29.76	43.50	-13.74	33.42	17.40	1.87	32.52	9.59	--	--	Peak
3	264.74	30.18	46.00	-15.82	30.31	20.11	2.66	32.51	9.61	--	--	Peak
4	510.15	36.95	46.00	-9.05	32.17	24.10	3.70	32.66	9.64	--	--	Peak
5	612.00	38.77	46.00	-7.23	31.96	25.76	4.11	32.69	9.63	--	--	Peak
6	914.50	123.95	------	------	111.54	29.38	4.97	31.57	9.63	114	224	Peak
7	968.96	42.87	54.00	-11.13	27.83	31.32	5.11	31.02	9.63	100	298	QP

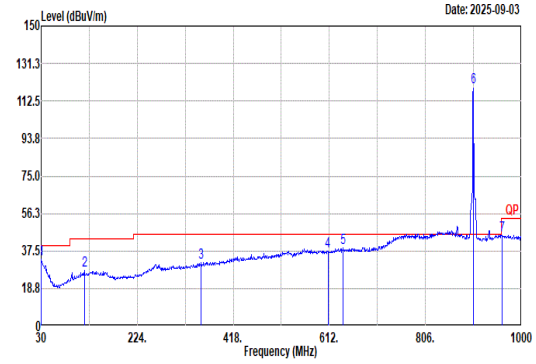
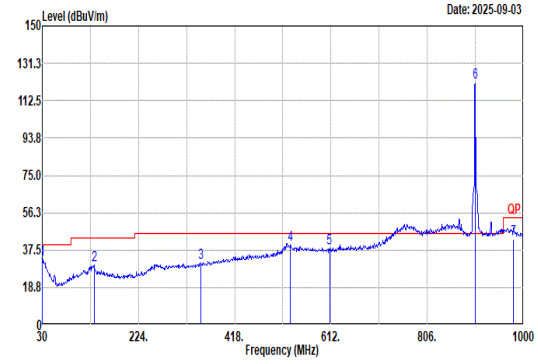
Remark: The unwanted signal falls within the non-restricted band and meet the requirements of 15.247 (d).

Mode	5	
	Harmonic	
	902-928_Lora DTS_CH15_914.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1829.00 44.00 74.00 -30.00 43.13 24.99 7.04 32.19 0.32 285 0 Peak 2 2743.50 40.31 74.00 -33.69 36.00 27.50 8.48 32.69 0.54 209 67 Peak 3 2743.50 28.73 54.00 -25.27 24.42 27.50 8.48 32.69 0.54 209 67 Average	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1829.00 44.36 74.00 -29.64 43.49 24.99 7.04 32.19 0.32 182 41 Peak 2 2743.50 43.64 74.00 -30.36 39.33 27.50 8.48 32.69 0.54 291 218 Peak 3 2743.50 36.62 54.00 -17.38 32.31 27.50 8.48 32.69 0.54 291 218 Average

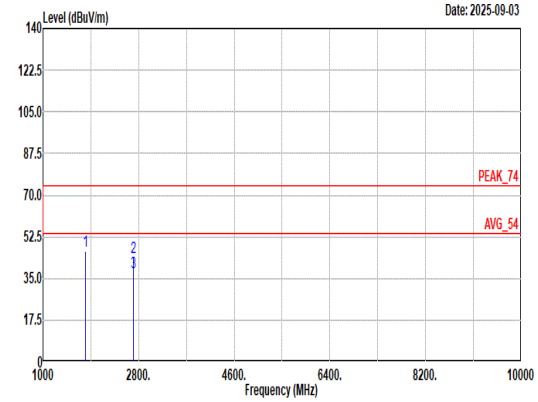
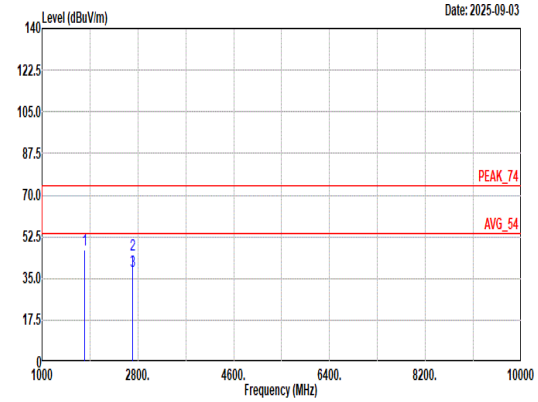
Mode	6	
	LF	
	902-928_Lora DTS_CH30_926.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 HORIZONTAL Mode : 6 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 32.75 40.00 -7.25 29.59 25.30 0.85 32.57 9.58 -- -- Peak 2 139.61 27.46 43.50 -16.04 31.08 17.38 1.93 32.52 9.59 -- -- Peak 3 261.83 30.11 46.00 -15.89 30.19 20.16 2.65 32.50 9.61 -- -- Peak 4 510.15 36.71 46.00 -9.29 31.93 24.10 3.70 32.66 9.64 -- -- Peak 5 613.94 37.07 46.00 -8.93 30.28 25.72 4.12 32.68 9.63 -- -- Peak 6 926.50 120.83 ------ ------ 107.82 29.83 5.00 31.45 9.63 148 165 Peak 7 967.99 46.34 54.00 -7.66 31.29 31.34 5.11 31.03 9.63 -- -- Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 VERTICAL Mode : 6 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 32.83 40.00 -7.17 29.67 25.30 0.85 32.57 9.58 -- -- Peak 2 129.91 29.02 43.50 -14.48 32.62 17.50 1.84 32.52 9.58 -- -- Peak 3 256.01 30.47 46.00 -15.53 31.27 19.48 2.61 32.50 9.61 -- -- Peak 4 507.24 36.66 46.00 -9.34 31.89 24.10 3.69 32.66 9.64 -- -- Peak 5 611.03 37.92 46.00 -8.08 31.09 25.78 4.11 32.69 9.63 -- -- Peak 6 926.50 124.33 ------ ------ 111.32 29.83 5.00 31.45 9.63 112 224 Peak 7 976.72 43.77 54.00 -10.23 28.98 30.97 5.13 30.95 9.64 100 248 QP

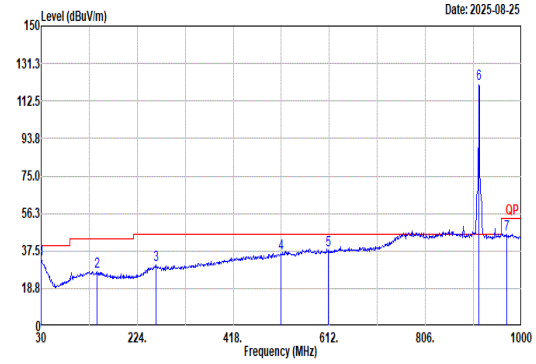
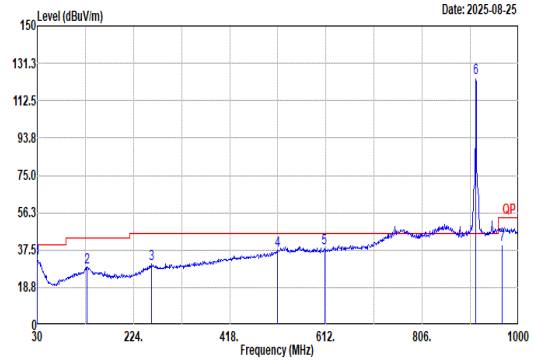
Remark: The unwanted signal falls within the non-restricted band and meet the requirements of 15.247 (d).

Mode	6	
	Harmonic	
	902-928_Lora DTS_CH30_926.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1853.00 44.55 74.00 -29.45 43.59 25.03 7.09 32.21 0.35 277 360 Peak 2 2779.50 39.76 74.00 -34.24 35.33 27.60 8.53 32.70 0.53 205 179 Peak 3 2779.50 29.50 54.00 -24.50 25.07 27.60 8.53 32.70 0.53 205 179 Average	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1853.00 43.14 74.00 -30.86 42.18 25.03 7.09 32.21 0.35 272 360 Peak 2 2779.50 42.87 74.00 -31.13 38.44 27.60 8.53 32.70 0.53 210 160 Peak 3 2779.50 33.60 54.00 -20.40 29.17 27.60 8.53 32.70 0.53 210 160 Average

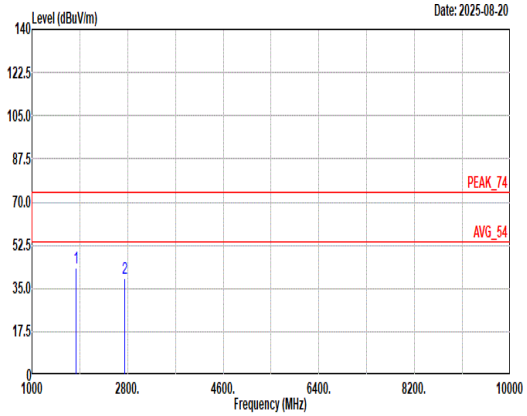
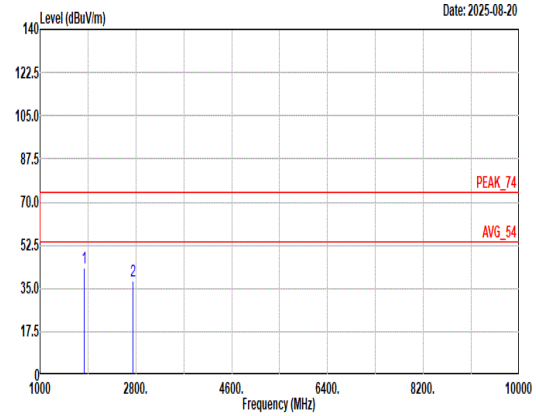
Mode	7	
	LF	
	902-928_Lora DTS_CH0_902.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 HORIZONTAL Mode : 7 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 33.32 40.00 -6.68 30.16 25.30 0.85 32.57 9.58 -- -- Peak 2 117.30 27.57 43.50 -15.93 31.47 17.30 1.74 32.52 9.58 -- -- Peak 3 353.01 31.46 46.00 -14.54 30.74 20.56 3.08 32.54 9.62 -- -- Peak 4 609.09 37.55 46.00 -8.45 30.71 25.80 4.10 32.69 9.63 -- -- Peak 5 640.13 39.27 46.00 -6.73 31.51 26.60 4.21 32.67 9.62 -- -- Peak 6 902.50 119.48 ------ ------ 107.39 29.20 4.95 31.69 9.63 145 268 Peak 7 961.20 45.27 54.00 -8.73 30.17 31.48 5.09 31.10 9.63 -- -- Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 VERTICAL Mode : 7 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 32.64 40.00 -7.36 29.48 25.30 0.85 32.57 9.58 -- -- Peak 2 134.76 29.75 43.50 -13.75 33.38 17.42 1.88 32.52 9.59 -- -- Peak 3 350.10 30.94 46.00 -15.06 30.30 20.50 3.06 32.54 9.62 -- -- Peak 4 530.52 39.96 46.00 -6.04 35.26 23.99 3.75 32.67 9.63 -- -- Peak 5 609.09 38.74 46.00 -7.26 31.90 25.80 4.10 32.69 9.63 -- -- Peak 6 902.50 121.88 ------ ------ 109.79 29.20 4.95 31.69 9.63 112 215 Peak 7 979.63 43.26 54.00 -10.74 28.49 30.91 5.14 30.92 9.64 105 261 QP

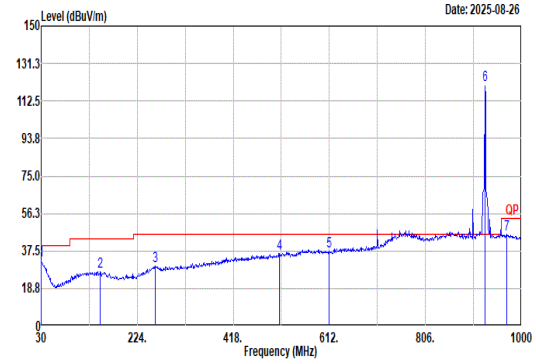
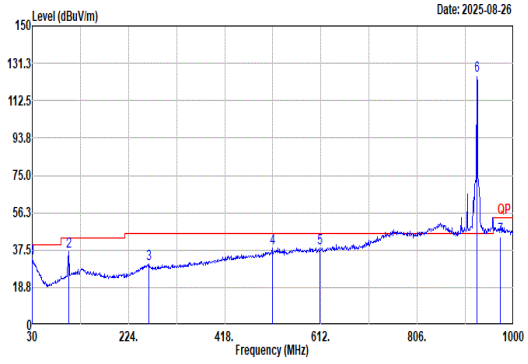
Remark: The unwanted signal falls within the non-restricted band and meet the requirements of 15.247 (d).

Mode	7	
	Harmonic	
	902-928_Lora DTS_CH0_902.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1805.00 46.73 74.00 -27.27 46.13 24.75 6.99 32.17 0.30 300 61 Peak 2 2707.50 43.71 74.00 -30.29 39.43 27.50 8.43 32.69 0.55 386 142 Peak 3 2707.50 37.71 54.00 -16.29 33.43 27.50 8.43 32.69 0.55 386 142 Average	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1805.00 47.06 74.00 -26.94 46.46 24.75 6.99 32.17 0.30 282 8 Peak 2 2707.50 44.91 74.00 -29.09 40.63 27.50 8.43 32.69 0.55 100 349 Peak 3 2707.50 38.11 54.00 -15.89 33.83 27.50 8.43 32.69 0.55 100 349 Average

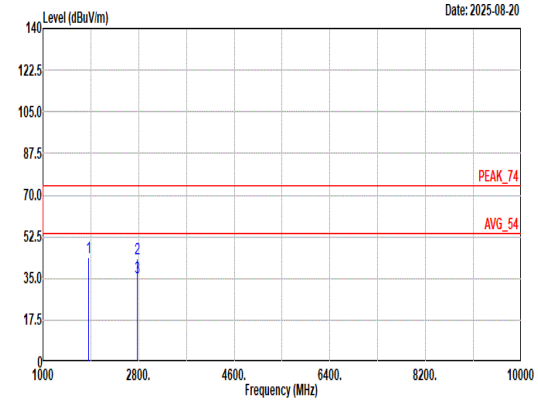
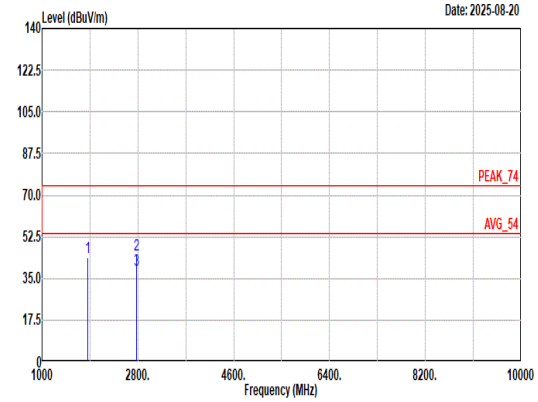
Mode	8	
	LF	
	902-928_Lora DTS_CH15_914.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 HORIZONTAL Mode : 8 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 33.32 40.00 -6.68 30.16 25.30 0.85 32.57 9.58 -- -- Peak 2 143.49 27.25 43.50 -16.25 30.93 17.30 1.96 32.53 9.59 -- -- Peak 3 261.83 30.84 46.00 -15.16 30.92 20.16 2.65 32.50 9.61 -- -- Peak 4 515.00 36.34 46.00 -9.66 31.45 24.20 3.71 32.66 9.64 -- -- Peak 5 610.06 37.94 46.00 -8.06 31.09 25.80 4.11 32.69 9.63 -- -- Peak 6 914.50 121.08 ------ ------ 108.67 29.38 4.97 31.57 9.63 163 119 Peak 7 970.90 45.86 54.00 -8.14 30.87 31.25 5.11 31.00 9.63 -- -- Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 VERTICAL Mode : 8 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 33.20 40.00 -6.80 30.04 25.30 0.85 32.57 9.58 -- -- Peak 2 129.91 29.11 43.50 -14.39 32.71 17.50 1.84 32.52 9.58 -- -- Peak 3 260.86 30.44 46.00 -15.56 30.51 20.18 2.64 32.50 9.61 -- -- Peak 4 514.03 37.12 46.00 -8.88 32.25 24.18 3.71 32.66 9.64 -- -- Peak 5 609.09 38.71 46.00 -7.29 31.87 25.80 4.10 32.69 9.63 -- -- Peak 6 914.50 124.18 ------ ------ 111.77 29.38 4.97 31.57 9.63 111 224 Peak 7 967.02 40.10 54.00 -13.90 25.05 31.36 5.10 31.04 9.63 100 121 QP

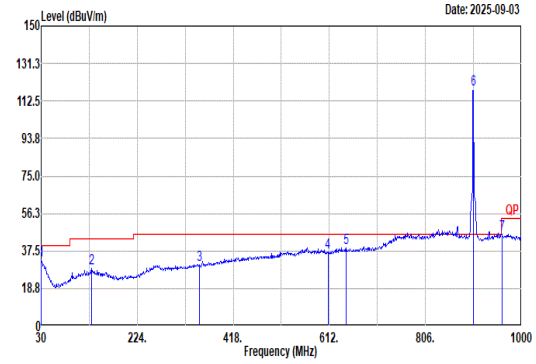
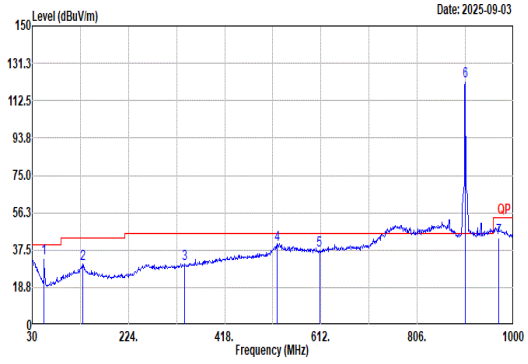
Remark: The unwanted signal falls within the non-restricted band and meet the requirements of 15.247 (d).

Mode	8	
	Harmonic	
	902-928_Lora DTS_CH15_914.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1829.00 43.23 74.00 -30.77 42.36 24.99 7.04 32.19 0.32 280 0 Peak 2 2743.50 39.18 74.00 -34.82 34.87 27.50 8.48 32.69 0.54 353 360 Peak	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1829.00 43.13 74.00 -30.87 42.26 24.99 7.04 32.19 0.32 191 35 Peak 2 2743.50 38.11 74.00 -35.89 33.80 27.50 8.48 32.69 0.54 -- -- Peak

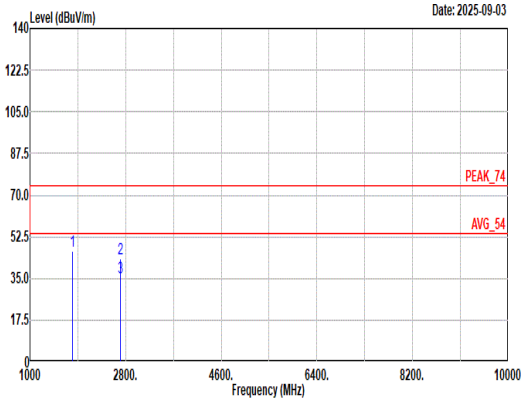
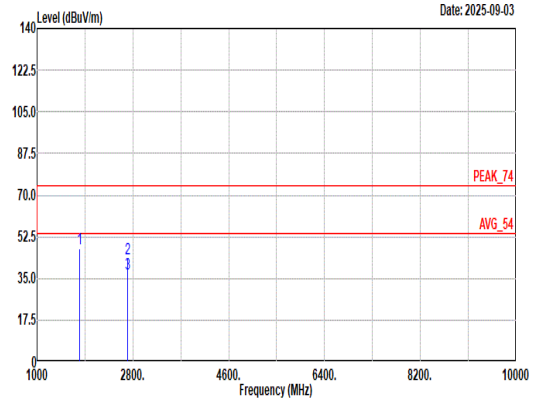
Mode	9	
	LF	
	902-928_Lora DTS_CH30_926.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 HORIZONTAL Mode : 9 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 33.06 40.00 -6.94 29.90 25.30 0.85 32.57 9.58 -- -- Peak 2 149.31 27.10 43.50 -16.40 31.00 17.03 2.02 32.54 9.59 -- -- Peak 3 260.86 29.96 46.00 -16.04 30.03 20.18 2.64 32.50 9.61 -- -- Peak 4 511.12 36.00 46.00 -10.00 31.20 24.12 3.70 32.66 9.64 -- -- Peak 5 611.03 37.33 46.00 -8.67 30.50 25.78 4.11 32.69 9.63 -- -- Peak 6 926.50 120.33 ------ ------ 107.32 29.83 5.00 31.45 9.63 149 164 Peak 7 969.93 45.92 54.00 -8.08 30.89 31.30 5.11 31.01 9.63 -- -- Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 VERTICAL Mode : 9 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 33.54 40.00 -6.46 30.38 25.30 0.85 32.57 9.58 -- -- Peak 2 103.72 36.61 43.50 -6.89 41.56 16.32 1.67 32.52 9.58 -- -- Peak 3 265.71 30.82 46.00 -15.18 31.09 19.96 2.67 32.51 9.61 -- -- Peak 4 514.03 38.41 46.00 -7.59 33.54 24.18 3.71 32.66 9.64 -- -- Peak 5 610.06 38.65 46.00 -7.35 31.80 25.80 4.11 32.69 9.63 -- -- Peak 6 926.50 125.02 ------ ------ 112.01 29.83 5.00 31.45 9.63 111 240 Peak 7 972.84 44.11 54.00 -9.89 29.21 31.13 5.12 30.98 9.63 100 264 QP

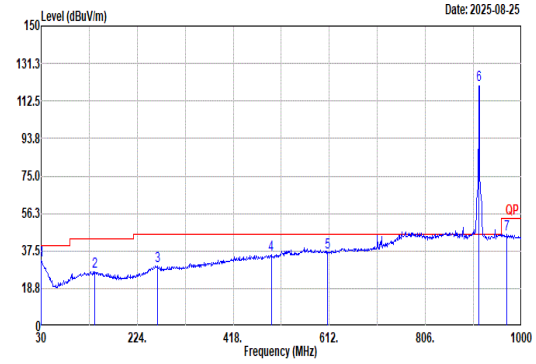
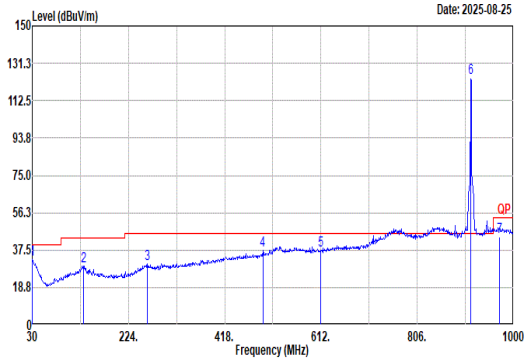
Remark: The unwanted signal falls within the non-restricted band and meet the requirements of 15.247 (d).

Mode	9	
	Harmonic	
	902-928_Lora DTS_CH30_926.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1853.00 43.72 74.00 -30.28 42.76 25.03 7.09 32.21 0.35 278 0 Peak 2 2779.50 43.39 74.00 -30.61 38.96 27.60 8.53 32.70 0.53 294 166 Peak 3 2779.50 35.59 54.00 -18.41 31.16 27.60 8.53 32.70 0.53 294 166 Average	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1853.00 43.72 74.00 -30.28 42.76 25.03 7.09 32.21 0.35 267 0 Peak 2 2779.50 45.06 74.00 -28.94 40.63 27.60 8.53 32.70 0.53 214 158 Peak 3 2779.50 38.82 54.00 -15.18 34.39 27.60 8.53 32.70 0.53 214 158 Average

Mode	10	
	LF	
	902-928_Lora DTS_CH0_902.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 HORIZONTAL Mode : 10 | | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark | | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | | 1 | 30.00 | 32.89 | 40.00 | -7.11 | 29.73 | 25.30 | 0.85 | 32.57 | 9.58 | -- | -- | Peak | 2 | 131.85 | 28.69 | 43.50 | -14.81 | 32.35 | 17.41 | 1.86 | 32.52 | 9.59 | -- | -- | Peak | 3 | 350.10 | 30.83 | 46.00 | -15.17 | 30.19 | 20.50 | 3.06 | 32.54 | 9.62 | -- | -- | Peak | 4 | 609.09 | 36.99 | 46.00 | -9.01 | 30.15 | 25.80 | 4.10 | 32.69 | 9.63 | -- | -- | Peak | 5 | 645.95 | 39.27 | 46.00 | -6.73 | 31.49 | 26.60 | 4.24 | 32.67 | 9.61 | -- | -- | Peak | 6 | 902.50 | 118.40 | ------ | ------ | 106.31 | 29.20 | 4.95 | 31.69 | 9.63 | 144 | 223 | Peak | 7 | 960.23 | 45.99 | 54.00 | -8.01 | 30.88 | 31.50 | 5.09 | 31.11 | 9.63 | -- | -- | Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 VERTICAL Mode : 10 | | Freq | Level | Limit Line | Margin | Read Level | Ant Factor | Cable Loss | Preamp Factor | Aux Factor | APos | TPos | Remark | | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | | 1 | 54.25 | 33.18 | 40.00 | -6.82 | 42.41 | 12.60 | 1.17 | 32.59 | 9.59 | -- | -- | Peak | 2 | 131.85 | 30.60 | 43.50 | -12.90 | 34.26 | 17.41 | 1.86 | 32.52 | 9.59 | -- | -- | Peak | 3 | 337.49 | 30.76 | 46.00 | -15.24 | 30.66 | 20.00 | 3.01 | 32.53 | 9.62 | -- | -- | Peak | 4 | 523.73 | 39.93 | 46.00 | -6.07 | 35.20 | 24.03 | 3.73 | 32.67 | 9.64 | -- | -- | Peak | 5 | 609.09 | 37.38 | 46.00 | -8.62 | 30.54 | 25.80 | 4.10 | 32.69 | 9.63 | -- | -- | Peak | 6 | 902.50 | 122.20 | ------ | ------ | 110.11 | 29.20 | 4.95 | 31.69 | 9.63 | 110 | 211 | Peak | 7 | 969.93 | 43.48 | 54.00 | -10.52 | 28.45 | 31.30 | 5.11 | 31.01 | 9.63 | 100 | 263 | QP

Remark: The unwanted signal falls within the non-restricted band and meet the requirements of 15.247 (d).

Mode	10	
	Harmonic	
	902-928_Lora DTS_CH0_902.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1805.00 46.62 74.00 -27.38 46.02 24.75 6.99 32.17 0.30 256 65 Peak 2 2707.50 43.21 74.00 -30.79 38.93 27.50 8.43 32.69 0.55 384 137 Peak 3 2707.50 35.22 54.00 -18.78 30.94 27.50 8.43 32.69 0.55 384 137 Average	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 1805.00 47.47 74.00 -26.53 46.87 24.75 6.99 32.17 0.30 276 11 Peak 2 2707.50 43.47 74.00 -30.53 39.19 27.50 8.43 32.69 0.55 100 350 Peak 3 2707.50 37.02 54.00 -16.98 32.74 27.50 8.43 32.69 0.55 100 350 Average

Mode	11	
	LF	
	902-928_Lora DTS_CH15_914.5MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 HORIZONTAL Mode : 11 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 32.85 40.00 -7.15 29.69 25.30 0.85 32.57 9.58 -- -- Peak 2 137.67 27.37 43.50 -16.13 31.02 17.37 1.91 32.52 9.59 -- -- Peak 3 264.74 29.83 46.00 -16.17 29.96 20.11 2.66 32.51 9.61 -- -- Peak 4 494.63 35.57 46.00 -10.43 31.03 23.89 3.66 32.65 9.64 -- -- Peak 5 608.12 37.06 46.00 -8.94 30.21 25.80 4.10 32.69 9.64 -- -- Peak 6 914.50 120.78 ------ ------ 108.37 29.38 4.97 31.57 9.63 160 119 Peak 7 970.90 45.99 54.00 -8.01 31.00 31.25 5.11 31.00 9.63 -- -- Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 VERTICAL Mode : 11 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.00 33.07 40.00 -6.93 29.91 25.30 0.85 32.57 9.58 -- -- Peak 2 132.82 29.48 43.50 -14.02 33.14 17.40 1.87 32.52 9.59 -- -- Peak 3 261.83 30.34 46.00 -15.66 30.42 20.16 2.65 32.50 9.61 -- -- Peak 4 494.63 37.16 46.00 -8.84 32.62 23.89 3.66 32.65 9.64 -- -- Peak 5 611.03 37.61 46.00 -8.39 30.78 25.78 4.11 32.69 9.63 -- -- Peak 6 914.50 124.02 ------ ------ 111.61 29.38 4.97 31.57 9.63 113 226 Peak 7 971.87 44.19 54.00 -9.81 29.24 31.19 5.12 30.99 9.63 100 220 QP

Remark: The unwanted signal falls within the non-restricted band and meet the requirements of 15.247 (d).