



FCC RF Test Report

APPLICANT : Relay, Inc.
EQUIPMENT : Relay
BRAND NAME : Relay
MODEL NAME : RY2268
FCC ID : 2AMBHRY2268
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Jan. 31, 2026 ~ Mar. 13, 2026

We, Sporton International Inc. (Kunshan), 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 of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR631209	Rev. 01	Initial issue of report	Mar. 18, 2026

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)(3)	Output Power	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	$\leq 30\text{dBc}$	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 11.02 dB at 2746.00 MHz
3.6	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Note: This is a variant report. The change note could be referred to the Product Equality Declaration which is exhibit separately. Differences between original and changed model is the RF filter and FEM in LoRa radio and replace the non-pin-to-pin compatible RF Power Amplifier & associated Bandpass Filter. According to the change, only the related test cases were verified from original report FR250507E.

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/manufacture 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.



1 General Description

1.1 Applicant

Relay, Inc.

2230 Bandmate Way, Suite 500, Raleigh, NC 27607, USA

1.2 Manufacturer

Relay, Inc.

2230 Bandmate Way, Suite 500, Raleigh, NC 27607, USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Relay
Brand Name	Relay
Model Name	RY2268
FCC ID	2AMBHRY2268
IMEI Code	Conducted: 990007571421665/990007571421673 Radiation: 990007571421889/990007571421897
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	904 MHz ~ 926 MHz
Number of Channels	23
Bandwidth / Spread Factor	500kHz / SF7
Maximum Average Power to Antenna	LoRa DTS SF7 : 22.75 dBm (0.1884 W)
99% Occupied Bandwidth	LoRa DTS SF7 : 0.54 MHz
Antenna Type / Gain	PIFA Antenna with gain -1.0 dBi
Type of Modulation	LoRa

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH06-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH06-KS	AUDIX	E3	210616

1.8 Applicable Standards

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

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ ANSI C63.10-2020+Cor.1-2023

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. 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

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
904-926 MHz	1	904	13	916
	2	905	14	917
	3	906	15	918
	4	907	16	919
	5	908	17	920
	6	909	18	921
	7	910	19	922
	8	911	20	923
	9	912	21	924
	10	913	22	925
	11	914	23	926
	12	915	-	-

Note: The above EUT's information was declared by manufacturer.

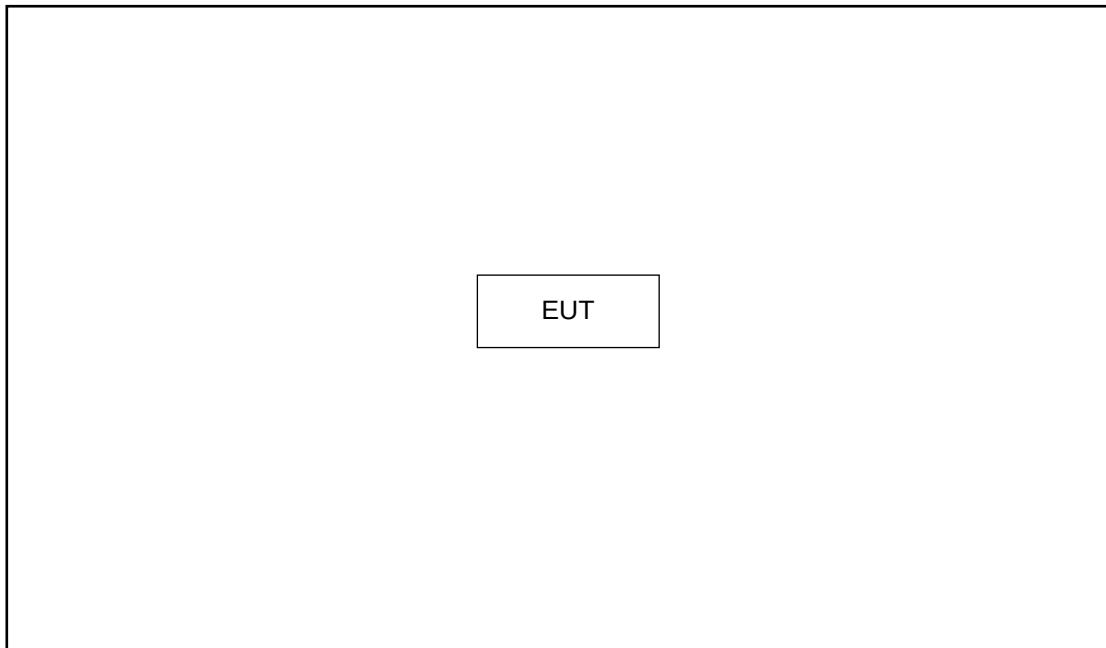
2.2 Test Mode

- 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, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases	
Test Item	Modulation
	Lora 500kHz DTS
Conducted TCs	Mode 1: LoRa Tx CH01_904 MHz Mode 2: LoRa Tx CH12_915 MHz Mode 3: LoRa Tx CH23_926 MHz
Radiated TCs	Mode 1: LoRa Tx CH01_904 MHz Mode 2: LoRa Tx CH12_915 MHz Mode 3: LoRa Tx CH23_926 MHz

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

For LoRa function, the engineering test program was provided and enabled to make EUT continuous transmit.

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 0.8 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 0.8 + 10 = 10.8 \text{ (dB)}\end{aligned}$$

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.

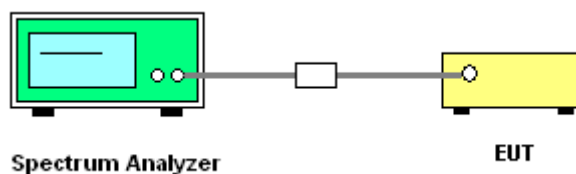
3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 11.8.1 for 6dB BW and 6.9.3 for 99% occupied bandwidth measurements
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth (VBW) $\geq 3 \times \text{RBW}$. Detector = Peak. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 20kHz and set the Video bandwidth (VBW) = 100kHz.
6. Measure and record the results in the test report.

3.1.4 Test Setup



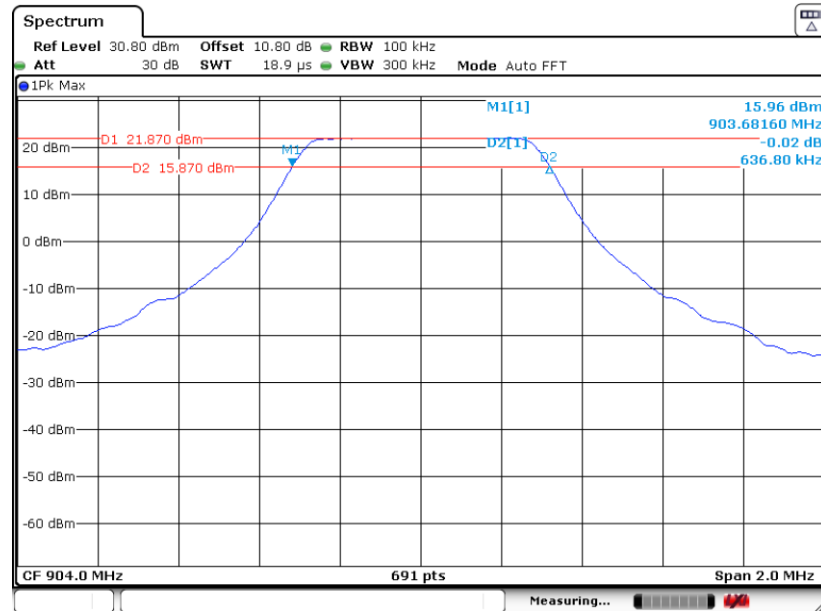


3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

For SF7:

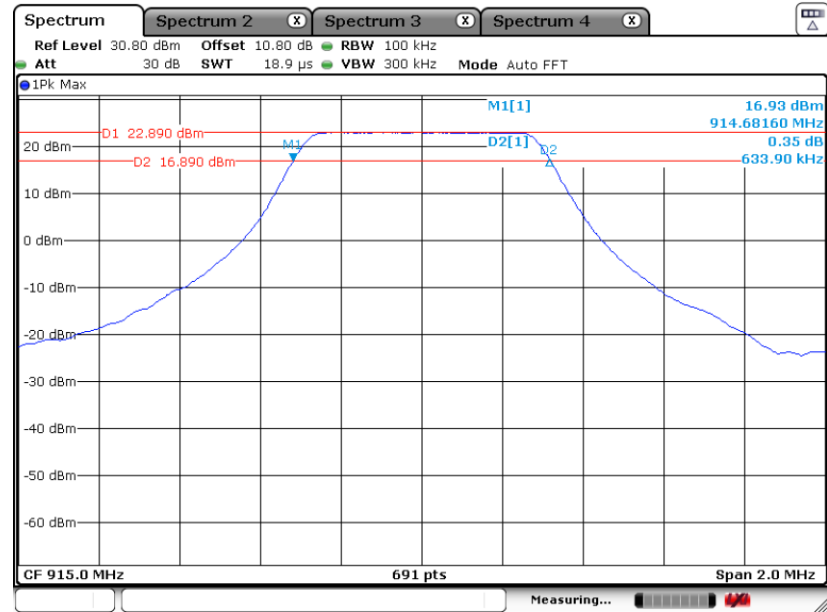
6 dB Bandwidth Plot on 904 MHz



Date: 12.MAR.2026 15:41:27

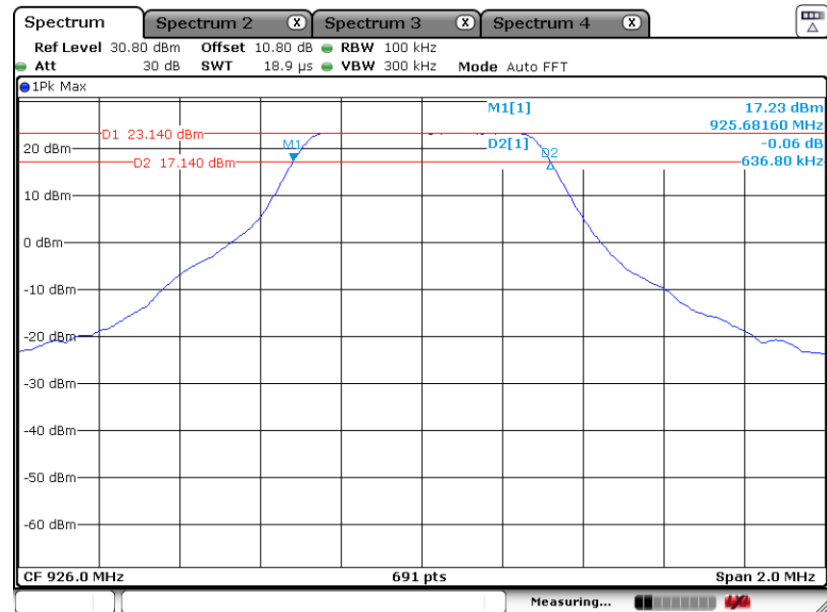


6 dB Bandwidth Plot on 915 MHz



Date: 12.MAR.2026 15:50:06

6 dB Bandwidth Plot on 926 MHz



Date: 12.MAR.2026 15:53:47

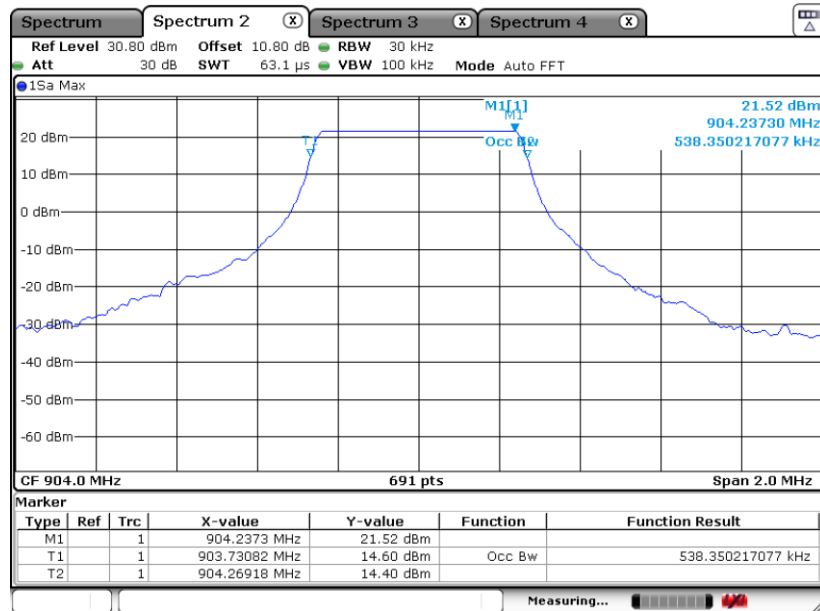


3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

For SF7:

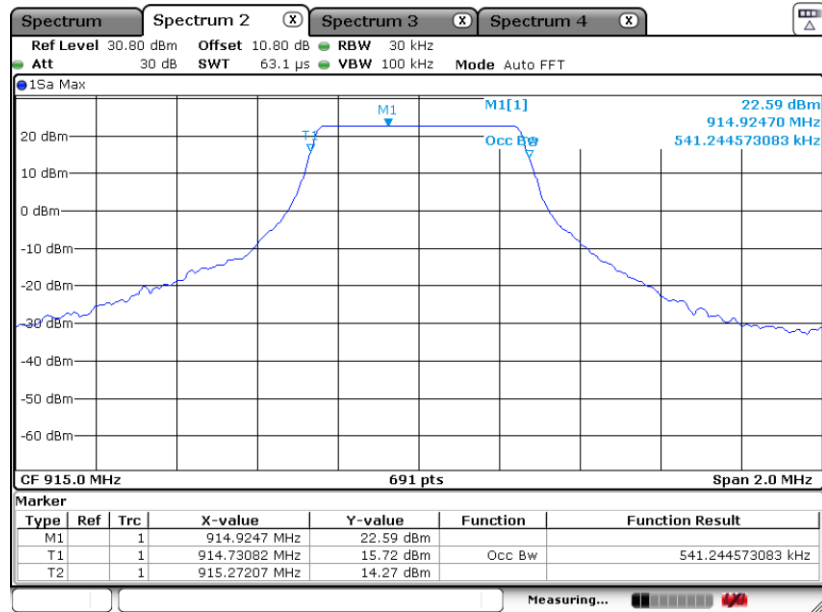
99% Bandwidth Plot on 904 MHz



Date: 12.MAR.2026 15:56:29

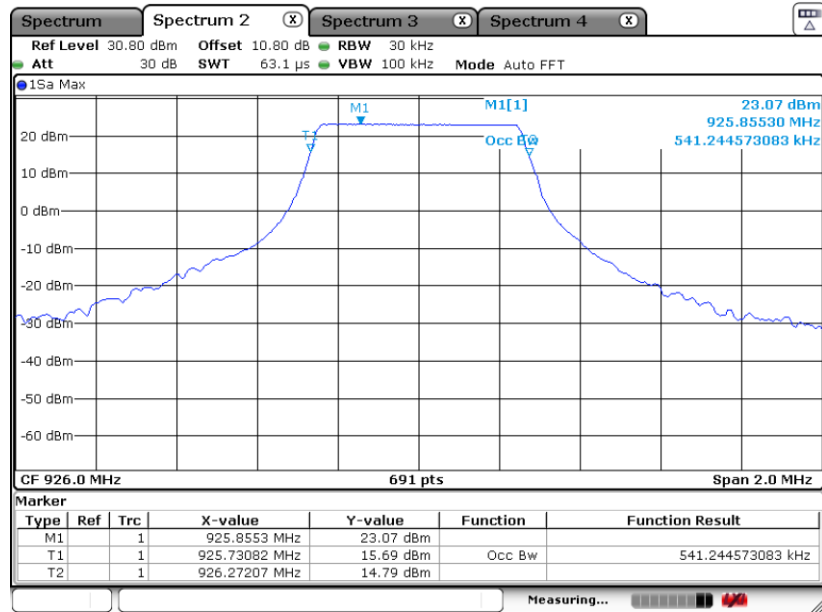


99% Occupied Bandwidth Plot on 915 MHz



Date: 12.MAR.2026 15:55:51

99% Occupied Bandwidth Plot on 926 MHz



Date: 12.MAR.2026 15:52:51

Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 902-928MHz, the limit for output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

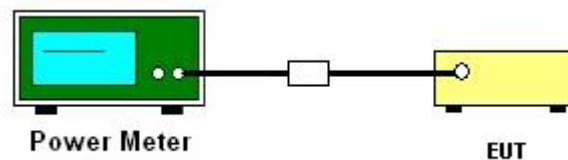
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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 Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

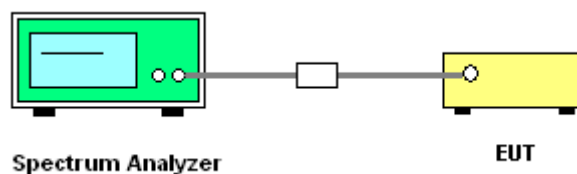
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2020 clause 11.10.5 Method AVGPSD-2.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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 = power averaging (rms), Sweep time = auto couple. Use the peak marker function to determine the maximum power level.
6. Employ trace averaging (rms) mode over a minimum of 100 traces.
7. Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
8. Measure and record the results in the test report.
9. Add $[10 \log (1 / D)]$, where D is the duty cycle.
10. The Measured power density (dBm)/ 100kHz is a reference level and used as 30dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

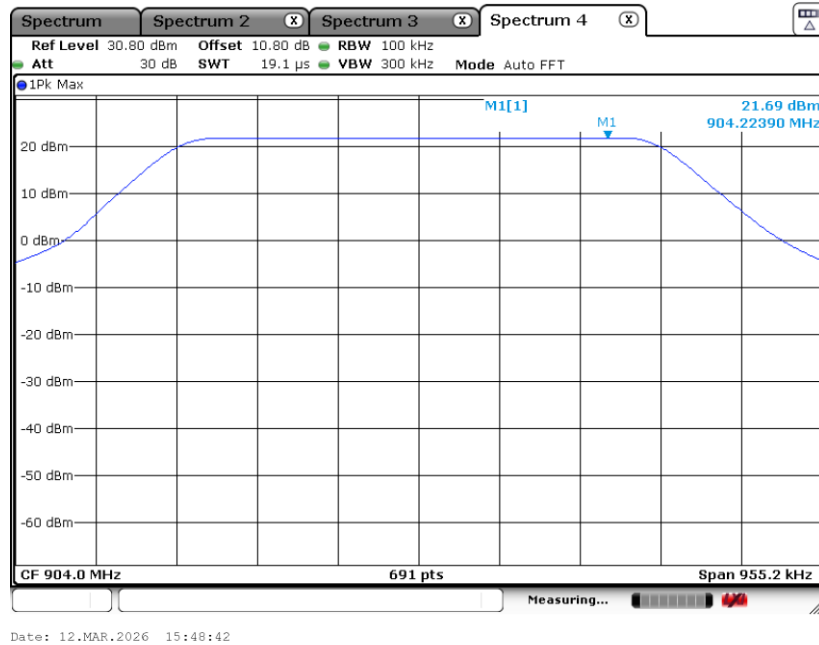
Please refer to Appendix A.



3.3.6 Test Result of Power Spectral Density Plots (100kHz)

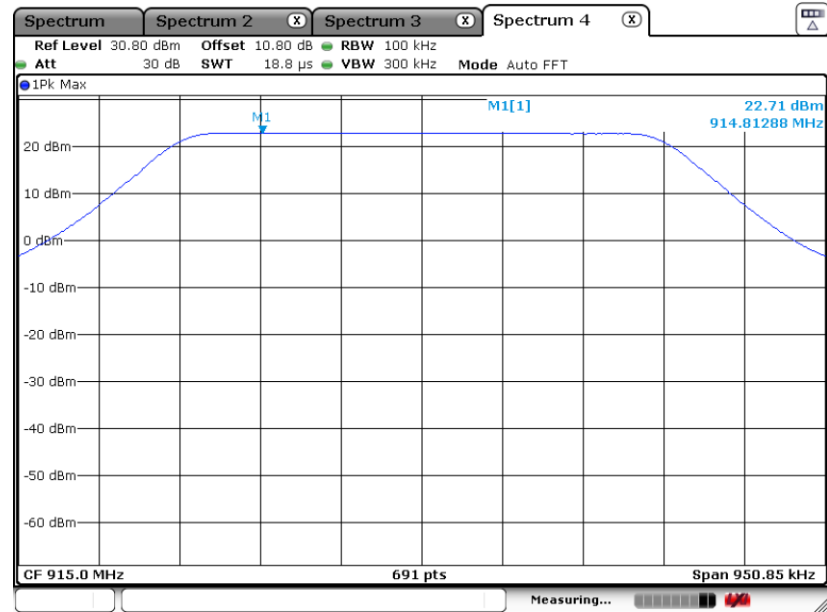
For SF7:

PSD 100kHz Plot on 904 MHz



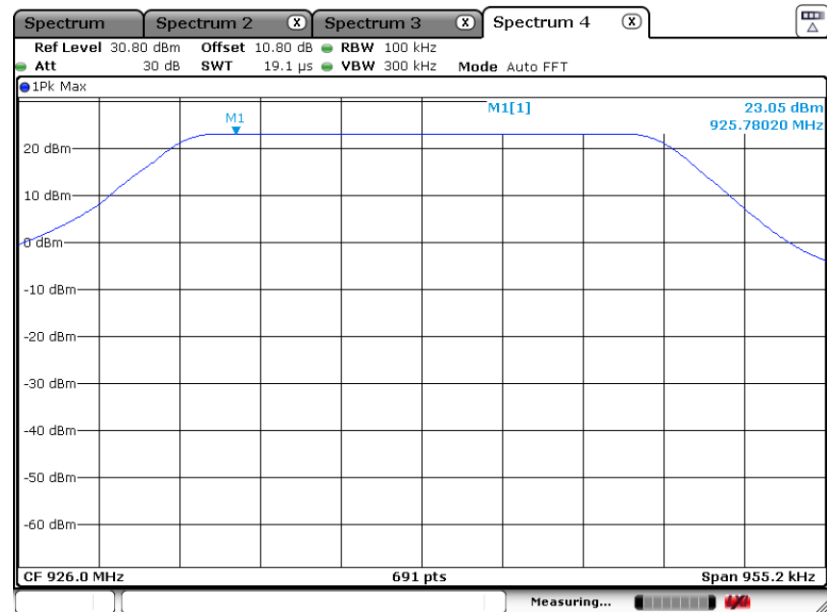


PSD 100kHz Plot on 915 MHz



Date: 12.MAR.2026 15:51:28

PSD 100kHz Plot on 926MHz



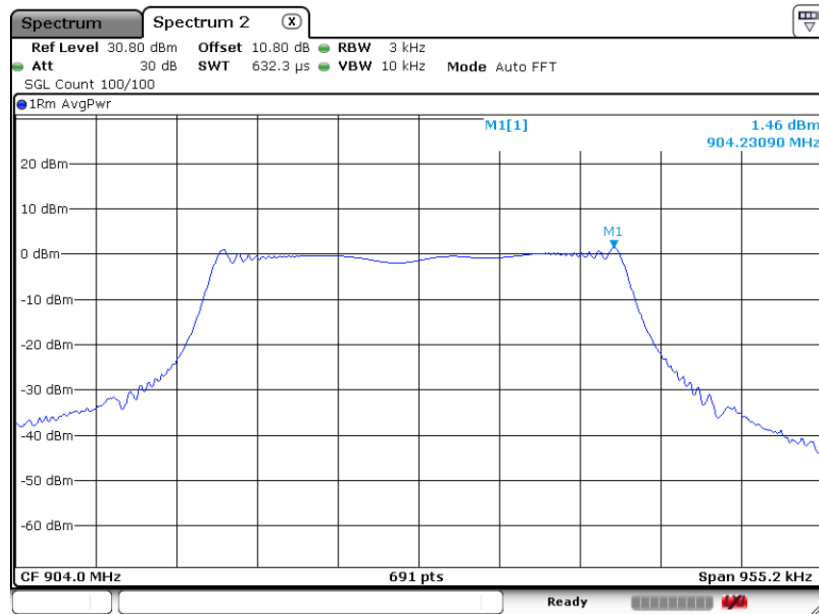
Date: 12.MAR.2026 15:55:03



3.3.7 Test Result of Power Spectral Density Plots (3kHz)

For SF7:

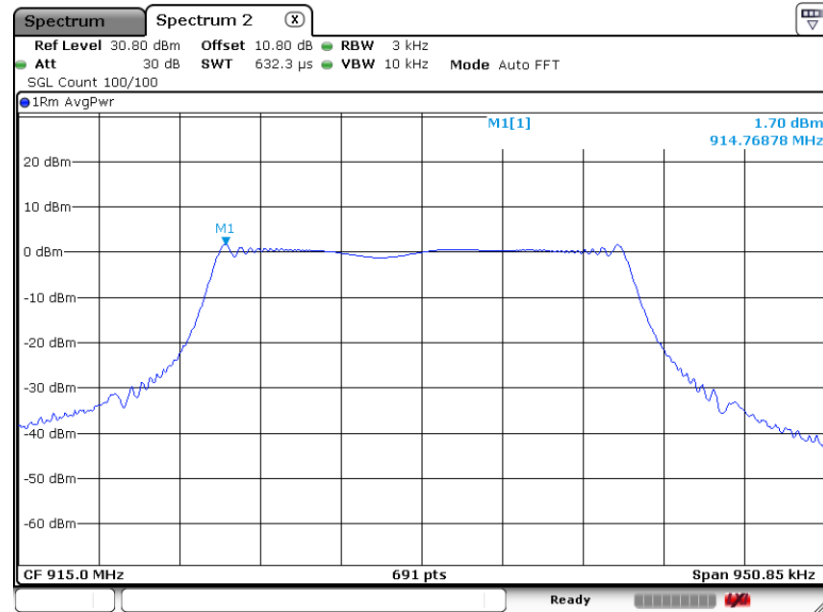
PSD 3kHz Plot on 904 MHz



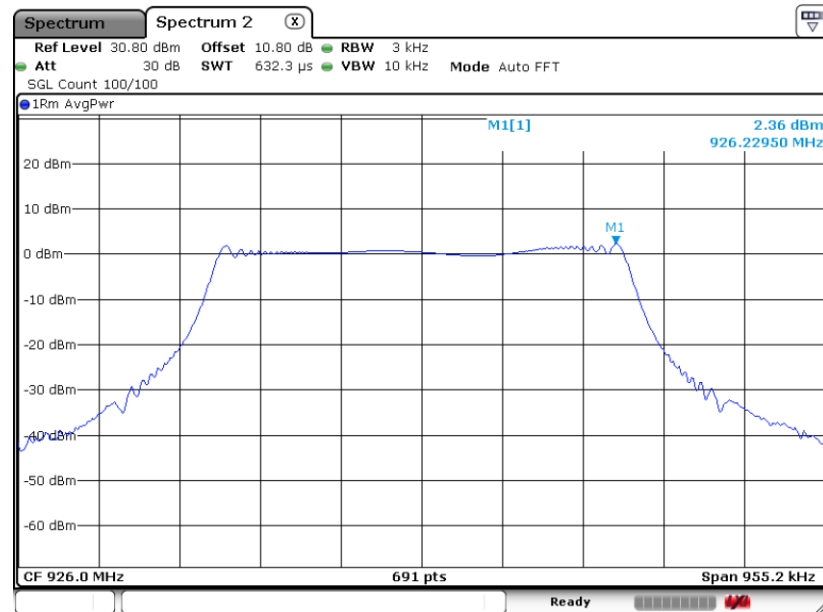
Date: 13.MAR.2026 16:06:01



PSD 3kHz Plot on 915 MHz



PSD 3kHz Plot on 926MHz



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 30 dB down from the highest emission level within the authorized band.

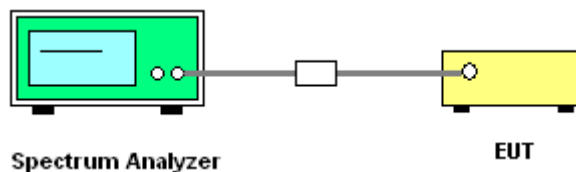
3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

1. The testing follows ANSI C63.10-2020 clause 11.13
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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 30 dB relative to the maximum in-band peak PSD level in 100 kHz when the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval.
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

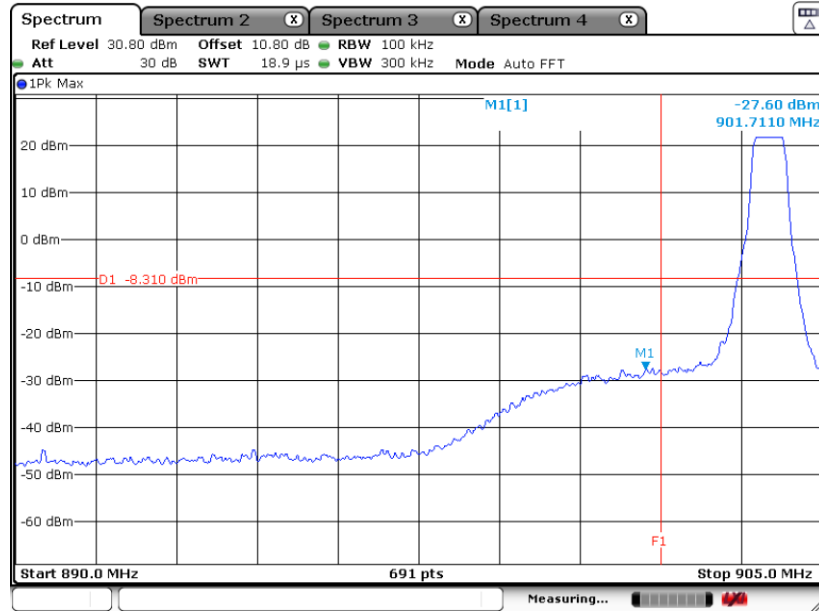




3.4.5 Test Result of Conducted Band Edges Plots

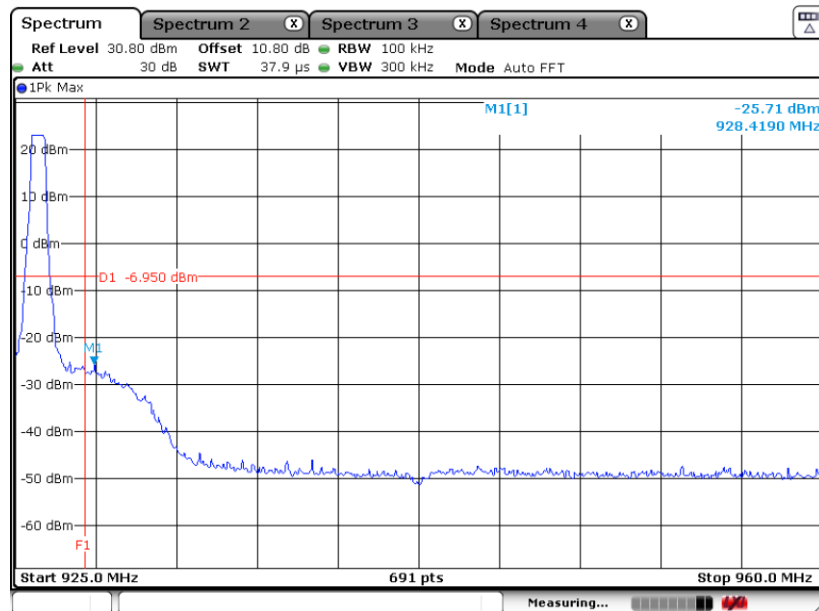
For SF7:

Low Band Edge Plot on 904MHz



Date: 12.MAR.2026 15:58:37

High Band Edge Plot on 926 MHz



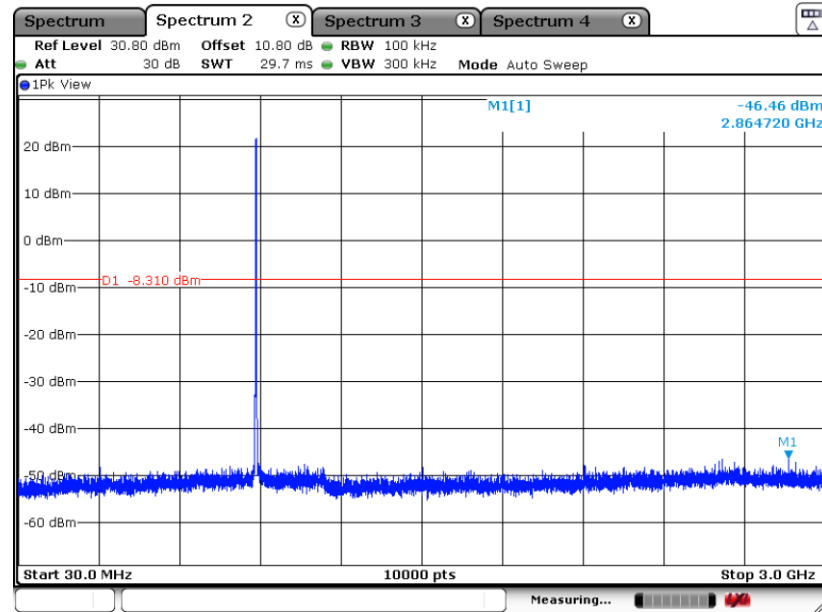
Date: 12.MAR.2026 16:07:27



3.4.6 Test Result of Conducted Spurious Emission Plots

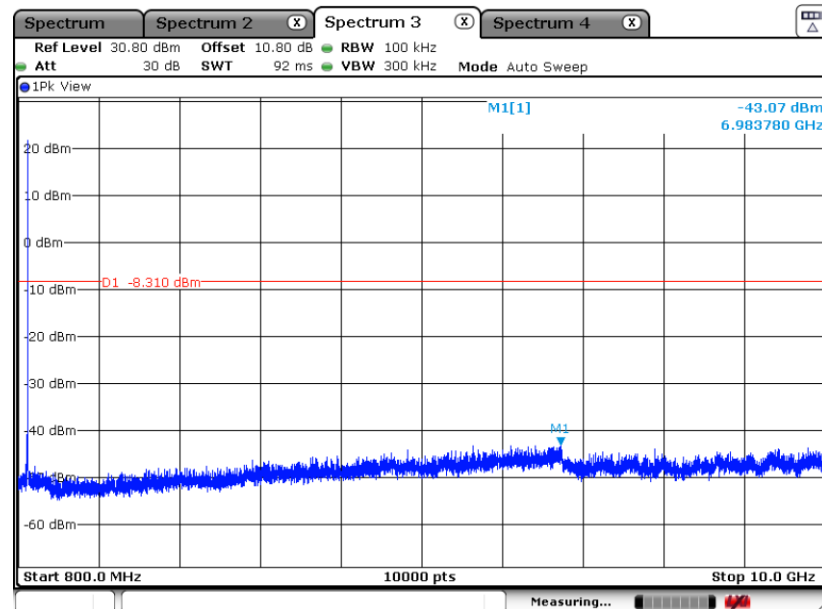
For SF7:

Conducted Spurious Emission Plot on 904 MHz



Date: 12.MAR.2026 16:00:25

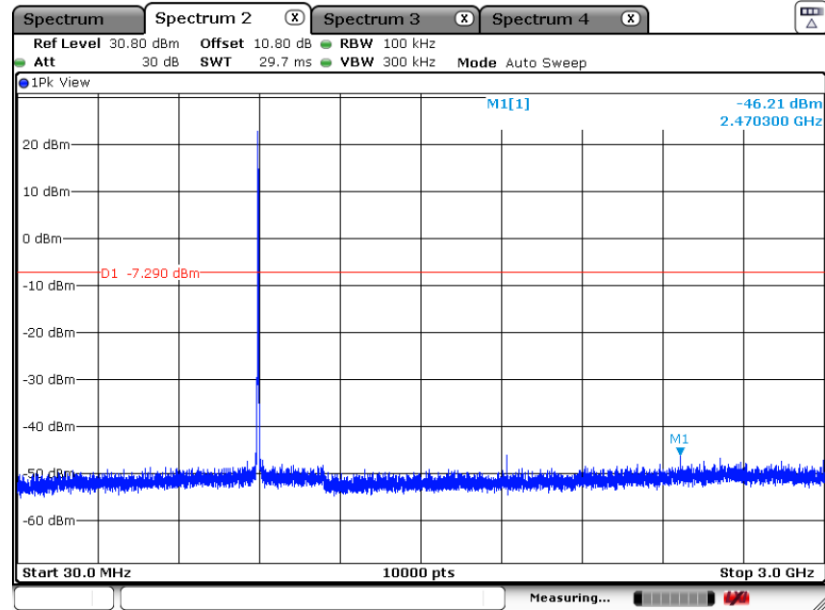
Conducted Spurious Emission Plot on 904 MHz



Date: 12.MAR.2026 16:01:29

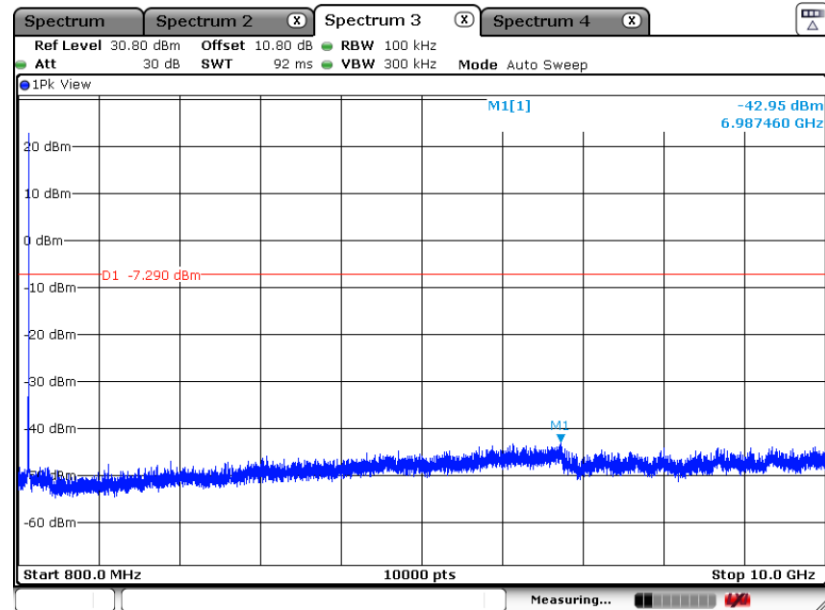


Conducted Spurious Emission Plot on 915 MHz



Date: 12.MAR.2026 16:02:52

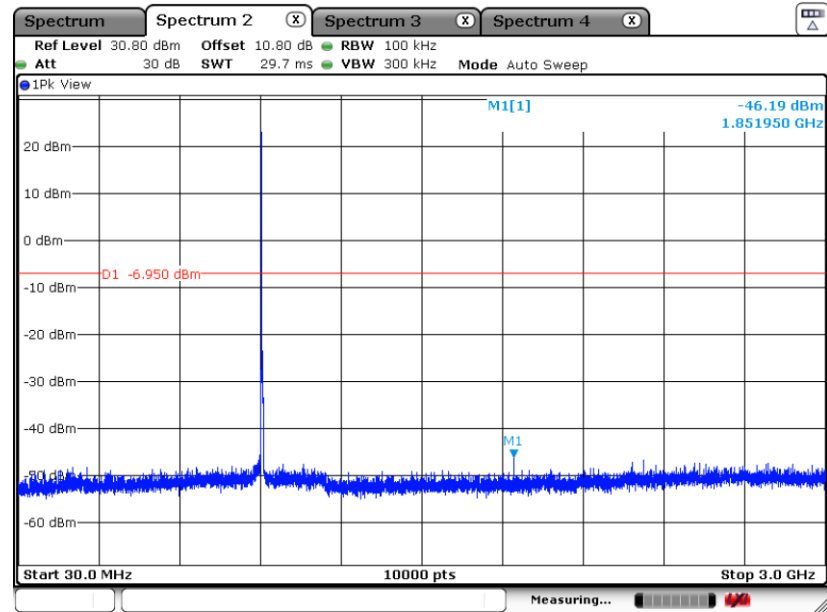
Conducted Spurious Emission Plot on 915 MHz



Date: 12.MAR.2026 16:03:25

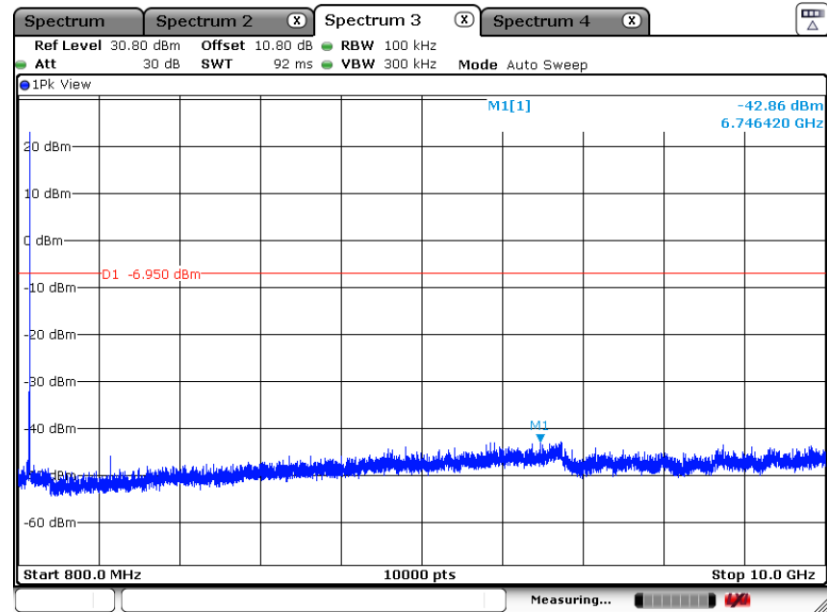


Conducted Spurious Emission Plot on 926MHz



Date: 12.MAR.2026 16:05:40

Conducted Spurious Emission Plot on 926MHz



Date: 12.MAR.2026 16:06:16

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

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 was 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

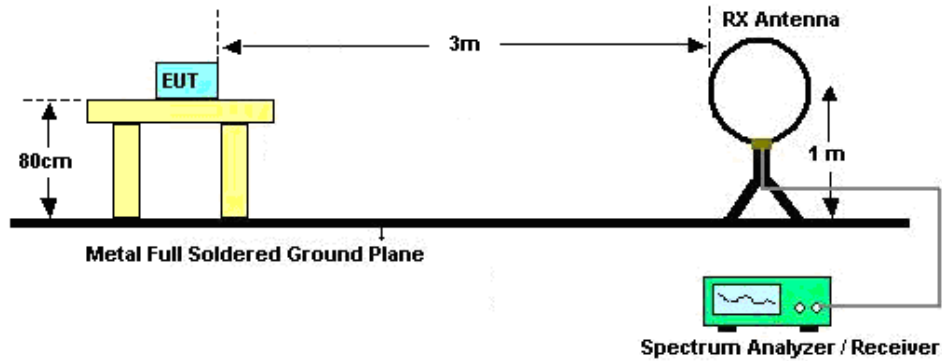
The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.5.3 Test Procedures

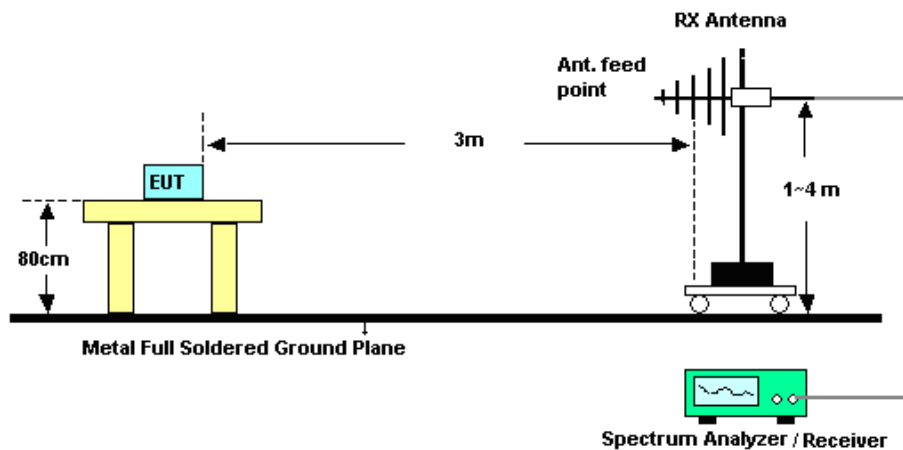
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5, 6.6, 11.11 and 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
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 $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, 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

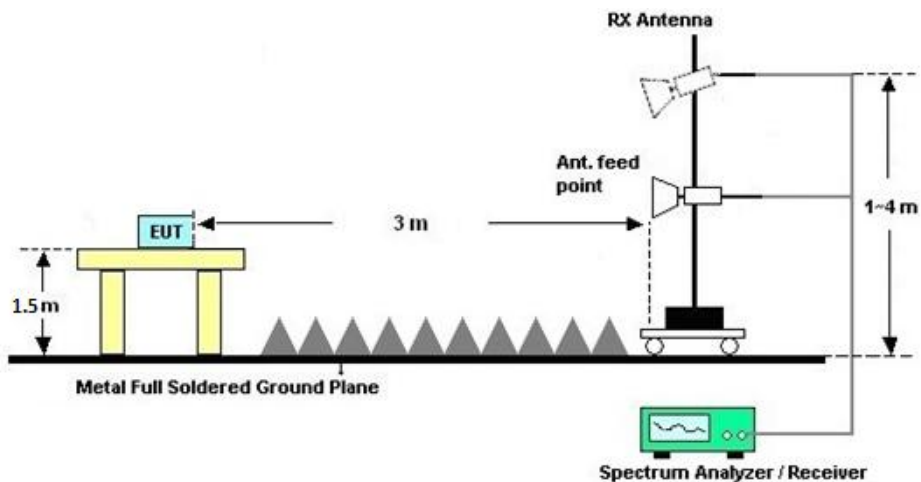
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

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

Please refer to Appendix B.

3.5.8 Duty cycle

Please refer to Appendix C.



3.6 Antenna Requirements

3.6.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY57290157	3Hz~8.5GHz;Max 30dBm	Feb. 22, 2025	Jan. 31, 2026	Feb. 21, 2026	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471084	10Hz~44GHz	Jul. 03, 2025	Jan. 31, 2026	Jul. 02, 2026	Radiation (03CH06-KS)
Active loop antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Aug. 10, 2025	Jan. 31, 2026	Aug. 09, 2026	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	Mar. 24, 2025	Jan. 31, 2026	Mar. 23, 2026	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 14, 2025	Jan. 31, 2026	Apr. 13, 2026	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 18, 2025	Jan. 31, 2026	Oct. 17, 2026	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 03, 2025	Jan. 31, 2026	Jul. 02, 2026	Radiation (03CH06-KS)
Amplifier	EM	EM18G40GA	060728	18~40GHz	Dec. 26, 2025	Jan. 31, 2026	Dec. 25, 2026	Radiation (03CH06-KS)
high gain Amplifier	EM	EM01G18GA	060845	1Ghz~18Ghz	Dec. 25, 2025	Jan. 31, 2026	Dec. 24, 2026	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY57280119	500MHz~26.5GHz	Oct. 10, 2025	Jan. 31, 2026	Oct. 09, 2026	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 31, 2026	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 31, 2026	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 31, 2026	NCR	Radiation (03CH06-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Jul. 07, 2025	Mar. 12, 2026~Mar. 13, 2026	Jul. 06, 2026	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Dec. 25, 2025	Mar. 12, 2026~Mar. 13, 2026	Dec. 24, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Dec. 25, 2025	Mar. 12, 2026~Mar. 13, 2026	Dec. 24, 2026	Conducted (TH01-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.00 dB
Occupied Channel Bandwidth	±0.384%
Conducted Power	±0.90 dB
Conducted Power Spectral Density	±0.90 dB
Frequency	±0.38 Hz

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.18dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.88dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.36dB
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----- THE END -----



Appendix A. Conducted Test Results

LoRa-DTS-Spreading Factor 7

Test Engineer:	Smile Wang	Temperature:	20~26	°C
Test Date:	2026/3/12-2026/3/13	Relative Humidity:	40~51	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Channel	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
SF7	L	904Mhz	0.54	0.64	0.50	Pass
SF7	M	915Mhz	0.54	0.63	0.50	Pass
SF7	H	926Mhz	0.54	0.64	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Channel	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting
SF7	L	904Mhz	0.00	22.08	30.00	-1.00	21.08	36.00	Pass	P1
SF7	M	915Mhz	0.00	22.69	30.00	-1.00	21.69	36.00	Pass	P1
SF7	H	926Mhz	0.00	22.75	30.00	-1.00	21.75	36.00	Pass	P1

TEST RESULTS DATA
Power Density

Mod.	Channel	Freq. (MHz)	PSD (dBm /100kHz)	PSD (dBm /3kHz)	DG (dBi)	PSD Limit (dBm /3kHz)	Pass/Fail
SF7	L	904Mhz	21.69	1.46	-1.00	8.00	Pass
SF7	M	915Mhz	22.71	1.70	-1.00	8.00	Pass
SF7	H	926Mhz	23.05	2.36	-1.00	8.00	Pass

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



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Levi zhao	Relative Humidity :	41~ 42 %
		Temperature :	22 ~ 23 °C

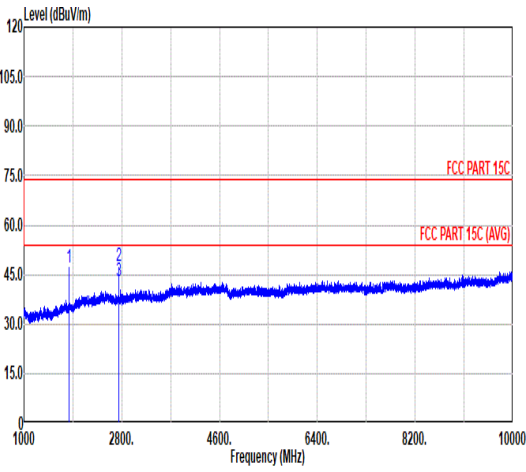
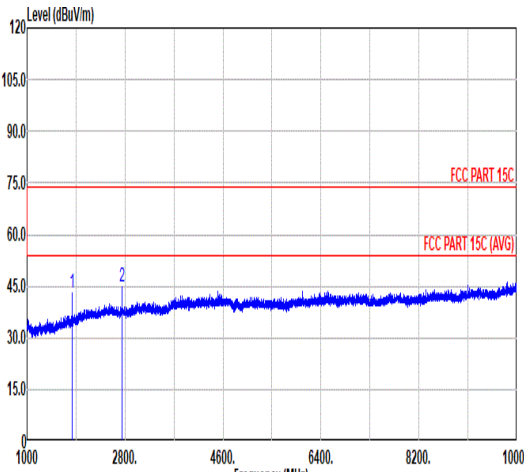
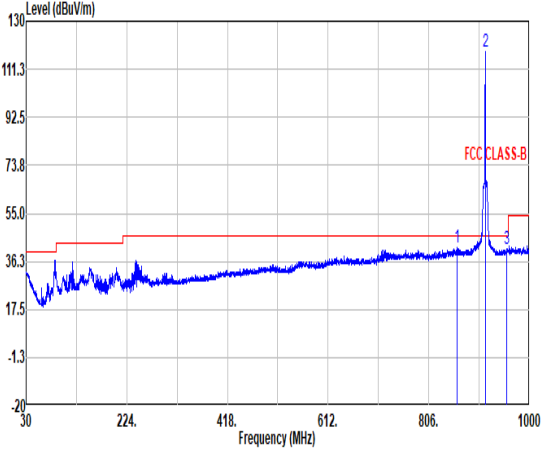
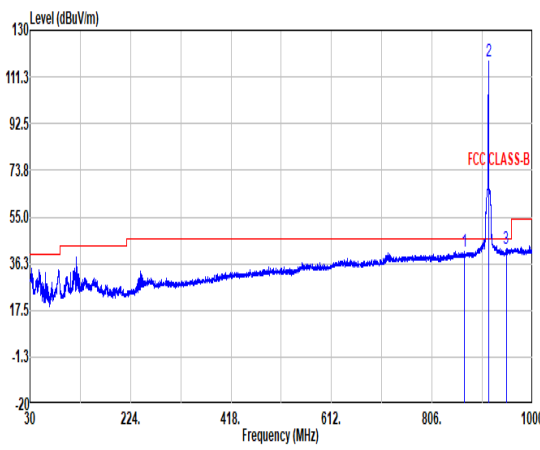
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	904~926	SISO	LoRa DTS	12	915	500kHz/SF7	-	-
Mode 2	904~926	SISO	LoRa DTS	1	904	500kHz/SF7	-	-
Mode 3	904~926	SISO	LoRa DTS	23	926	500kHz/SF7	-	-

Summary of each worse mode

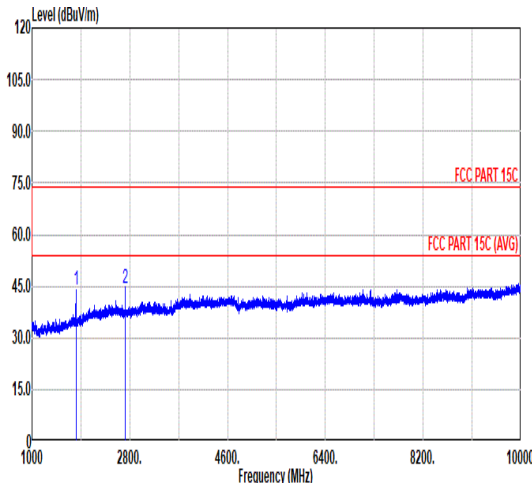
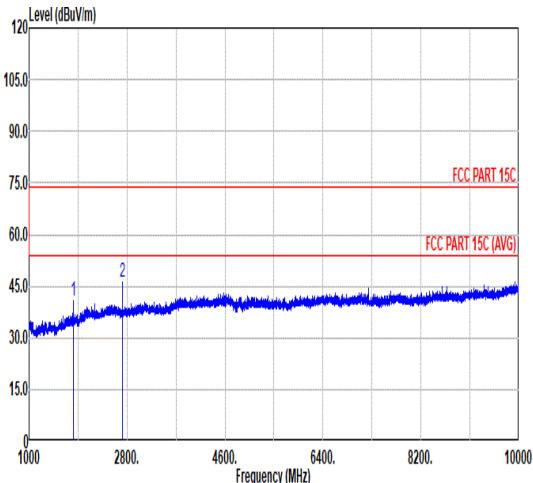
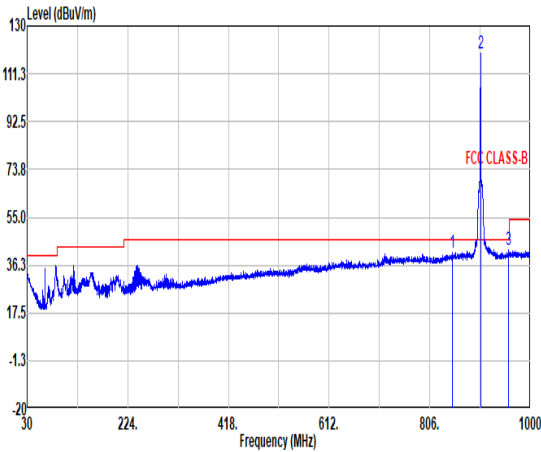
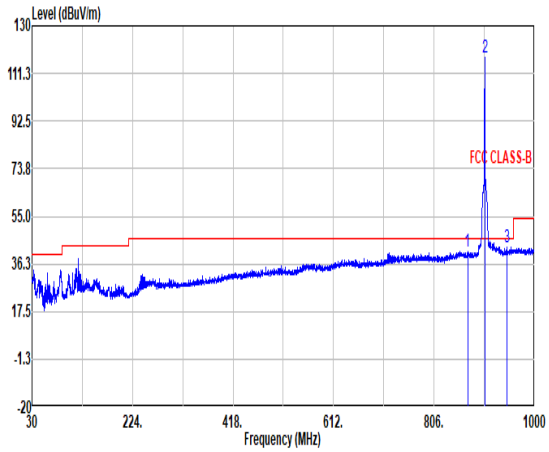
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	LoRa DTS	12	956.11	42.10	97.57	-55.47	V	Peak	Pass	Band Edge
	LoRa DTS	12	2746.00	42.98	54.00	-11.02	H	Average	Pass	Harmonic
2	LoRa DTS	1	947.38	42.56	97.66	-55.10	V	Peak	Pass	Band Edge
	LoRa DTS	1	2712.70	46.08	74.00	-27.92	V	Peak	Pass	Harmonic
3	LoRa DTS	23	894.27	42.18	97.53	-55.35	V	Peak	Pass	Band Edge
	LoRa DTS	23	2778.00	46.15	74.00	-27.85	H	Peak	Pass	Harmonic



Mode	1																																																																																																																																																													
	BE/Harmonic																																																																																																																																																													
	904~926_ LoRa DTS _CH12_915MHz																																																																																																																																																													
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Pol.	Horizontal						Vertical																																																																																																																																																							
Peak Avg																																																																																																																																																														
	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>1830.70</td><td>47.01</td><td>98.34</td><td>-51.33</td><td>76.18</td><td>30.06</td><td>5.06</td><td>65.09</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2746.00</td><td>47.58</td><td>74.00</td><td>-26.42</td><td>73.78</td><td>31.99</td><td>7.18</td><td>65.37</td><td>0.00</td><td>173</td><td>353</td><td>Peak</td></tr><tr><td>3</td><td>2746.00</td><td>42.98</td><td>54.00</td><td>-11.02</td><td>69.18</td><td>31.99</td><td>7.18</td><td>65.37</td><td>0.00</td><td>173</td><td>353</td><td>Average</td></tr></table>							Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	1830.70	47.01	98.34	-51.33	76.18	30.06	5.06	65.09	0.00	---	---	Peak	2	2746.00	47.58	74.00	-26.42	73.78	31.99	7.18	65.37	0.00	173	353	Peak	3	2746.00	42.98	54.00	-11.02	69.18	31.99	7.18	65.37	0.00	173	353	Average	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>1829.00</td><td>42.85</td><td>97.57</td><td>-54.72</td><td>72.02</td><td>30.06</td><td>5.06</td><td>65.09</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2745.10</td><td>44.93</td><td>74.00</td><td>-29.07</td><td>71.13</td><td>31.99</td><td>7.18</td><td>65.37</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr></table>							Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	1829.00	42.85	97.57	-54.72	72.02	30.06	5.06	65.09	0.00	---	---	Peak	2	2745.10	44.93	74.00	-29.07	71.13	31.99	7.18	65.37	0.00	---	---	Peak													
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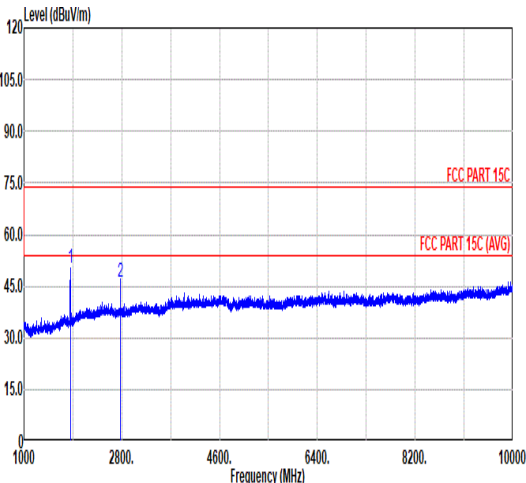
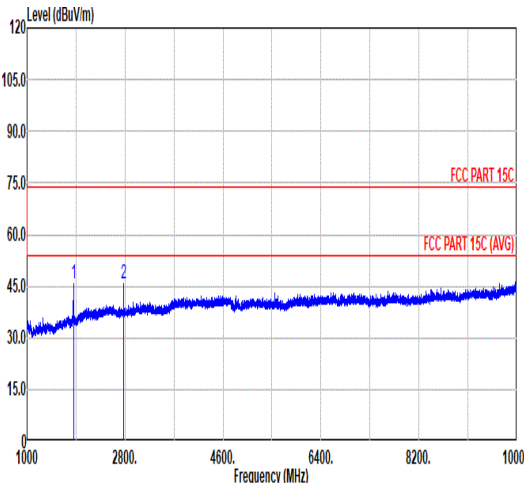
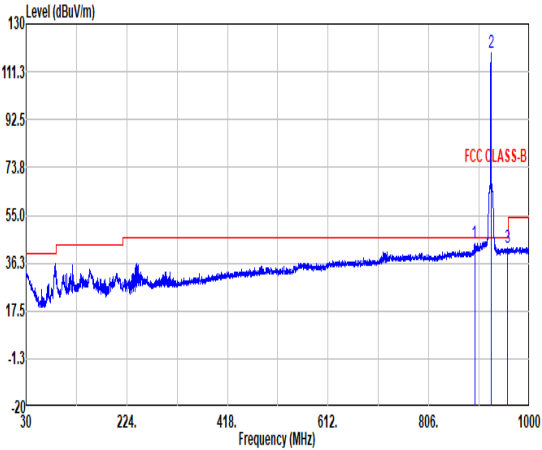
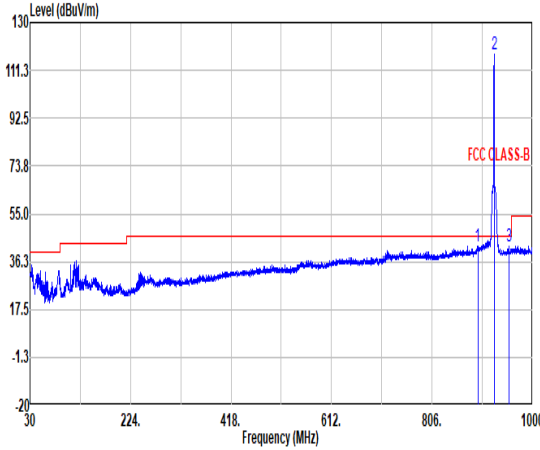
Note: The non-restricted frequency which limit is 100kHz-PSD down 20dB



Mode	2																																																																																																																																																					
	BE/Harmonic																																																																																																																																																					
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Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
LoRa	100	-	-	10Hz

LoRa(DTS)SF 7

