

FCC Radio Test Report

FCC ID : 2BOYO-SSB-10
Equipment : Wireless Smart Button
Brand Name : SKS
Model Name : SSB-10-1
Applicant : TAIWAN SHIN KONG SECURITY CO.,LTD
No. 128, Xing'ai Rd., Neihu Dist., Taipei City 114508, Taiwan
Manufacturer : TAIWAN SHIN KONG SECURITY CO.,LTD
No. 128, Xing'ai Rd., Neihu Dist., Taipei City 114508, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 06, 2026, and testing was started from Jul. 16, 2026 and completed on Aug. 14, 2026. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 and shown 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
-	15.207	AC Power-line Conducted Emissions	Not Required	Only employ battery power.
3.1	15.247(a)	DTS Bandwidth	PASS	-
3.2	15.247(a)	20dB Bandwidth	PASS	-
3.2	15.247(a)	Carrier Frequency Separation	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(a)	Number of Hopping Frequencies and Hopping Bandedge	PASS	-
3.6	15.247(a)	Time of Occupancy (Dwell Time)	PASS	-
3.7	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.8	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None

Reviewed by: Ryan Hsiao

Report Producer: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Modulation	Ch. Frequency (MHz)	Channel Number
902-928 MHz	LoRa (125kHz)	902.3-914.9	64
902-928 MHz	LoRa (500kHz)	923.3-926.9	7

Band	Mode	BWch (MHz)	Nant
902-928MHz	LoRa (125kHz)	0.2	1TX
902-928MHz	LoRa (500kHz)	0.5	1TX

Note:

- ♦ 902-928 MHz Band uses as a DTS & FHSS.
- ♦ LoRa (125kHz) uses FHSS.
- ♦ LoRa (500kHz) uses DTS.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand Name	Model Name	Ant. Type	Connector	RF	Radio
1	Shenzhen Feixin Wireless Communication	FX-DS-923-002	Spring	N/A	Lora	Radio 1
2	DUSUN	DSBC-570	PCB	N/A	BT	Radio 2

Ant.	Port	Gain (dBi)	
		Lora (902-928)	BT
1	1	2.5	-
2	1	-	-2.73

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 2 (port 1) could transmit/receive.

For LoRa function:

For LoRa mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

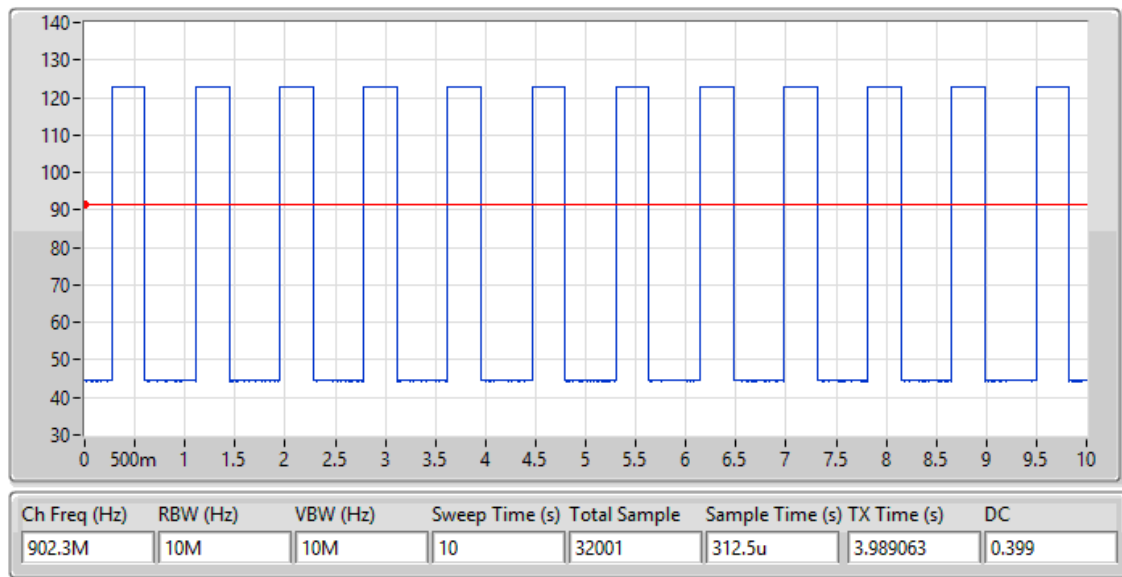
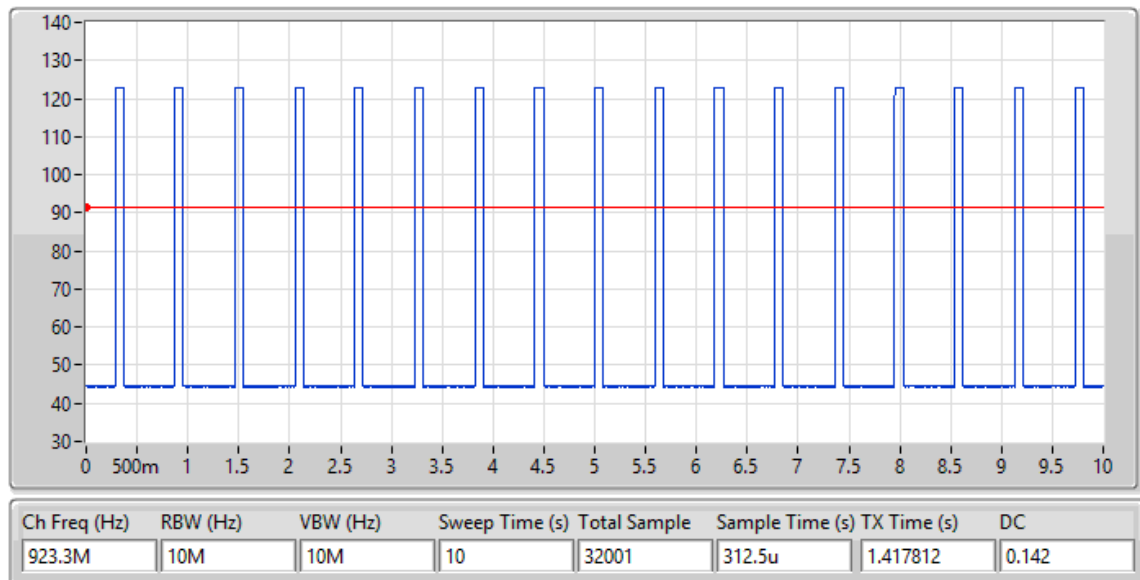
**1.1.3 Type of EUT**

Operational Condition	
EUT Power Type	From Battery
Type of EUT	
☒	Stand-alone
☐	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
☐	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
☐	Other:

**1.1.4 Test Signal Duty Cycle**

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
LoRa (125kHz)	0.399	3.99	332.5m	10
LoRa (500kHz)	0.142	8.48	83.437m	20

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

DC;LoRa-125;BWch:0.2**DC;LoRa-500;BWch:0.5**

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
 - ♦ ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
- The following reference test guidance is not within the scope of accreditation of TAF:
- ♦ KDB 558074 D01 v05r02
 - ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Peng Huang	23.6~24.7°C / 55~60%	23/Jul/2026~11/Aug/2026
Radiated	03CH24-HY	Jack Tang	20.3~23.1°C / 54~60%	16/Jul/2026~11/Aug/2026
Radiated (Co-location)	03CH24-HY	Jack Tang	21.7~22.4°C / 54~60%	14/Aug/2026

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Output Power	1.12 dB	Confidence levels of 95%
Bandwidth	0.07 MHz	Confidence levels of 95%
Conducted Emission	1.12 dB	Confidence levels of 95%
Power Spectral Density	1.22 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	1.76 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.38 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	4.94 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	4.92 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TX-DTS	Tnom	20°C
-	Vnom	3V

2.2 Test Channel Mode

Test Software Version	UartAssist v5.0.1
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Mode	Power Setting
LoRa (500kHz)	-
923.3MHz	22
926.9MHz	22
LoRa (125kHz)	-
902.3MHz	22
908.7MHz	22
914.9MHz	22

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	RF Output Power, 20dB Bandwidth, Carrier Frequency Separation (ChS) Number of Hopping Frequencies (N), Hopping Bandedge Time of Occupancy (Dwell Time) Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
	☒ Non-adaptive frequency hopping systems (Non-AFH) ☐ adaptive frequency hopping systems (AFH)

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Battery Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

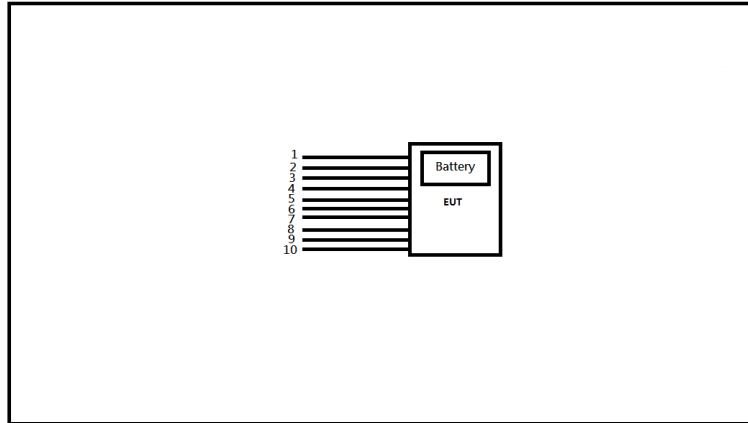
2.4 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Fixture	Sporton	Sporton	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Fixture Cable *10	SKS	SGW-10-1	-	Provided by Customer

2.5 Test Setup Diagram

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	Fixture Cable	No	0.2	-
2	Fixture Cable	No	0.2	-
3	Fixture Cable	No	0.2	-
4	Fixture Cable	No	0.2	-
5	Fixture Cable	No	0.2	-
6	Fixture Cable	No	0.2	-
7	Fixture Cable	No	0.2	-
8	Fixture Cable	No	0.2	-
9	Fixture Cable	No	0.2	-
10	Fixture Cable	No	0.2	-

3 Transmitter Test Result

3.1 DTS Bandwidth

3.1.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

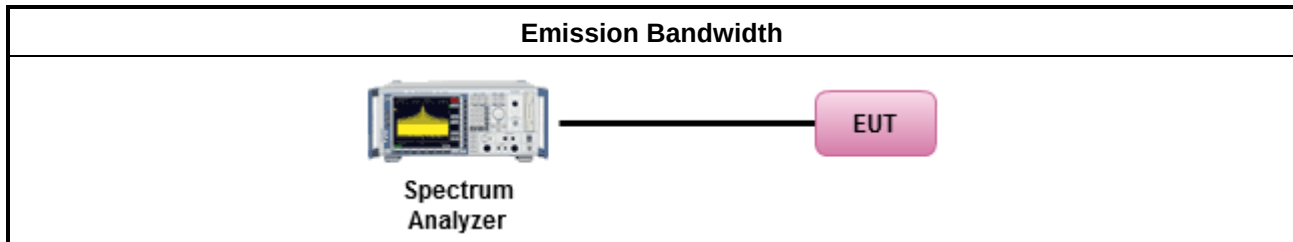
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems
902-928 MHz Band:
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation

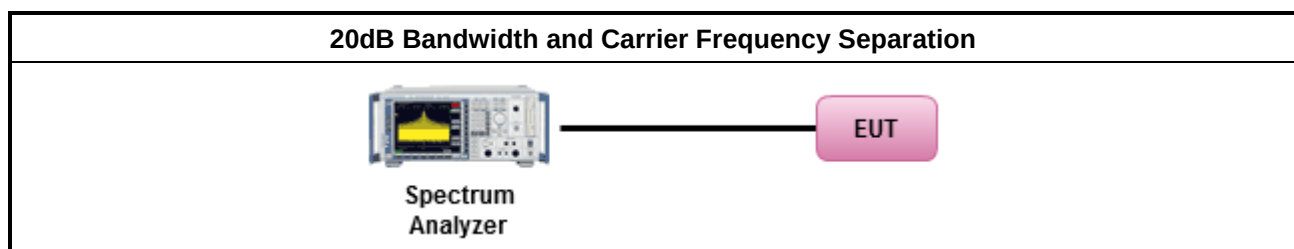
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10, clause 6.9.2 for 20 dB bandwidth measurement.
☒ Refer as ANSI C63.10, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup



3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix A

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix A

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
▪ 902-928 MHz Band:	
▪ DTS system; Power 30dBm	
▪ $N \geq 50$ and hybrid system; Power 30dBm; EIRP 36dBm	
▪ $50 > N \geq 25$; Power 24dBm; EIRP 30dBm	
N: Number of Hopping Frequencies	

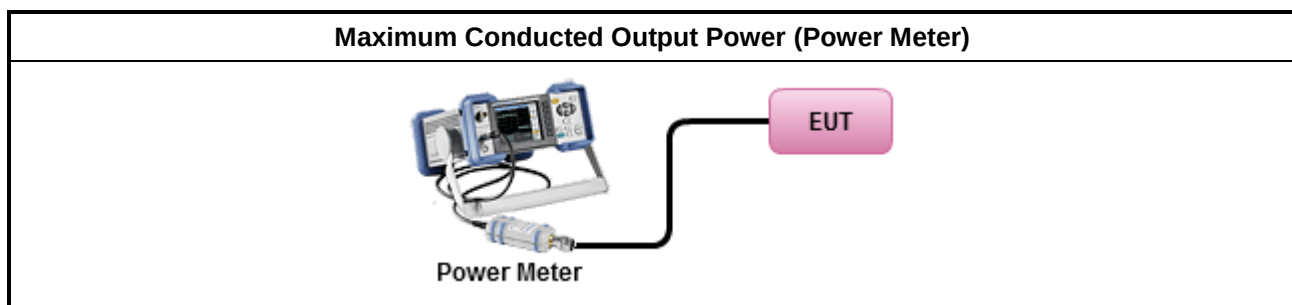
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
☐ Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW $\geq$ EBW method.	
☐ Refer as KDB 558074, clause 8.3.1.2 integrated band power method.	
☒ Refer as KDB 558074, clause 8.3.1.3 (11.9.1.2 of ANSI C63.10) peak power meter.	
▪ Maximum Average Conducted Output Power	
☐ Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.	
☒ Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.	
▪ For conducted measurement.	
▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit	
▪	Power Spectral Density (PSD) ≤ 8 dBm/3kHz

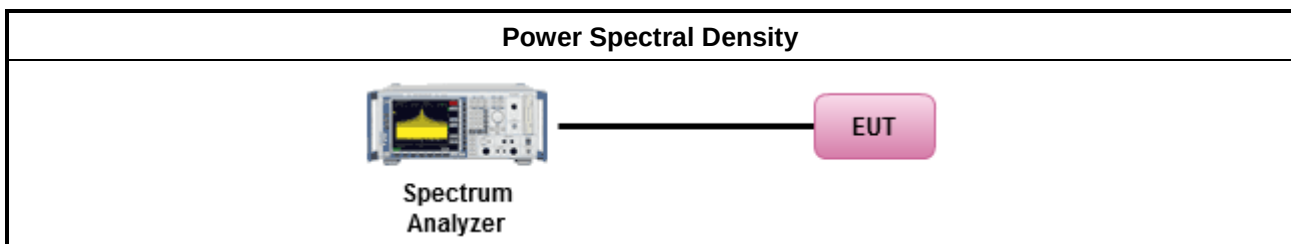
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix C

3.5 Number of Hopping Frequencies and Hopping Bandedge

3.5.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit	
902-928 MHz Band:	
	ChS $\geq$ MAX (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.
	ChS $\geq$ MAX (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
Note : 1. ChS : Hopping Channel Separation 2. There is no minimum number of hopping channels associated with this type of hybrid system.	

3.5.2 Hopping Bandedge Limit

Refer clause 3.7.1 and clause 3.8.1

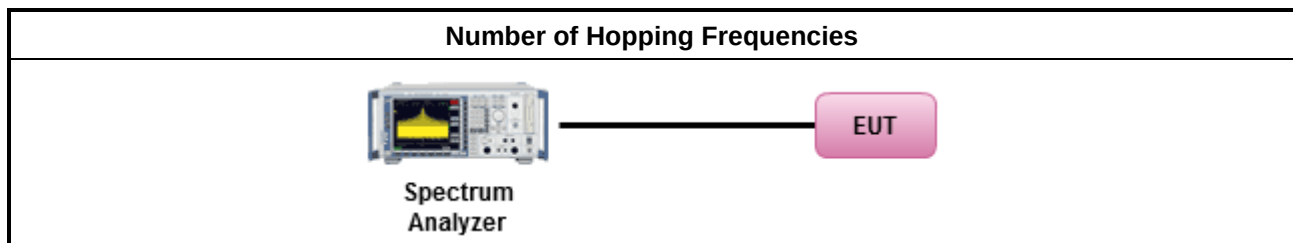
3.5.3 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.4 Test Procedures

Test Method
☒ Refer as ANSI C63.10, clause 7.8.3 for number of hopping frequencies measurement.
☒ Refer as ANSI C63.10, clause 7.8.7.2 for hopping frequencies Bandedge measurement.

3.5.5 Test Setup



3.5.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

3.5.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

3.6 Time of Occupancy (Dwell Time)

3.6.1 Time of Occupancy (Dwell Time) Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
902-928 MHz Band:	
	$N \geq 50$; 0.4s in 20s period
	$50 > N \geq 25$; 0.4s in 10s period
N: Number of Hopping Frequencies	

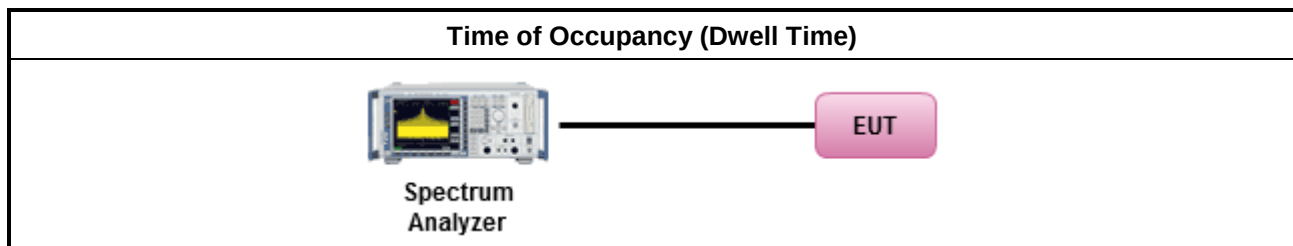
3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method
Refer as ANSI C63.10, clause 7.8.4 for dwell time measurement.

3.6.4 Test Setup



3.6.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

3.7 Emissions in Non-restricted Frequency Bands

3.7.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.	

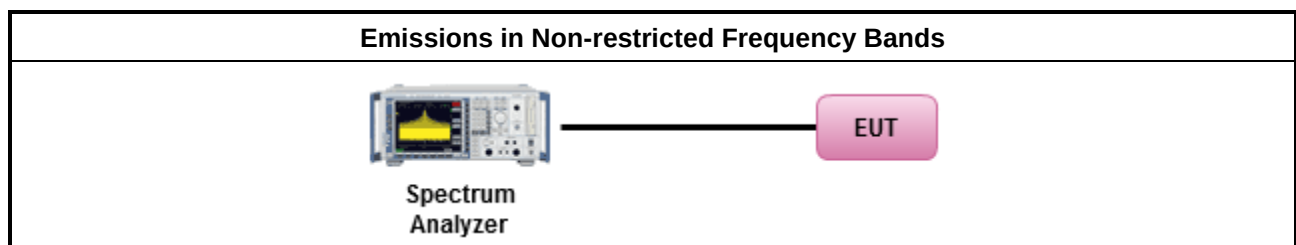
3.7.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method
Refer as ANSI C63.10, clause 7.8.7 for unwanted emissions into non-restricted bands.

3.7.4 Test Setup



3.7.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F

3.8 Emissions in Restricted Frequency Bands

3.8.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.8.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.8.3 Test Procedures

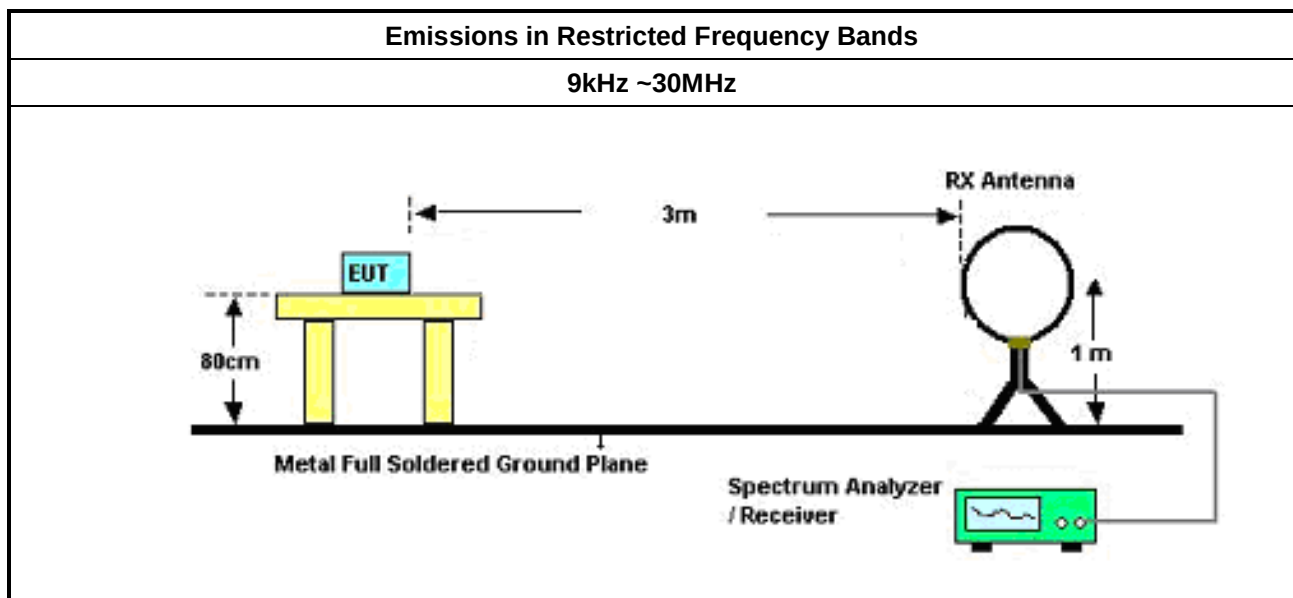
Test Method	
The average emission levels shall be measured in [hopping duty factor].	
Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as ANSI C63.10, clause 4.1.5.2.1 QP value.
	Refer as ANSI C63.10, clause 4.1.5.2.2 measurement procedure peak.
	Refer as ANSI C63.10, clause 4.1.5.2.5 average value of hopping pulsed emissions.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

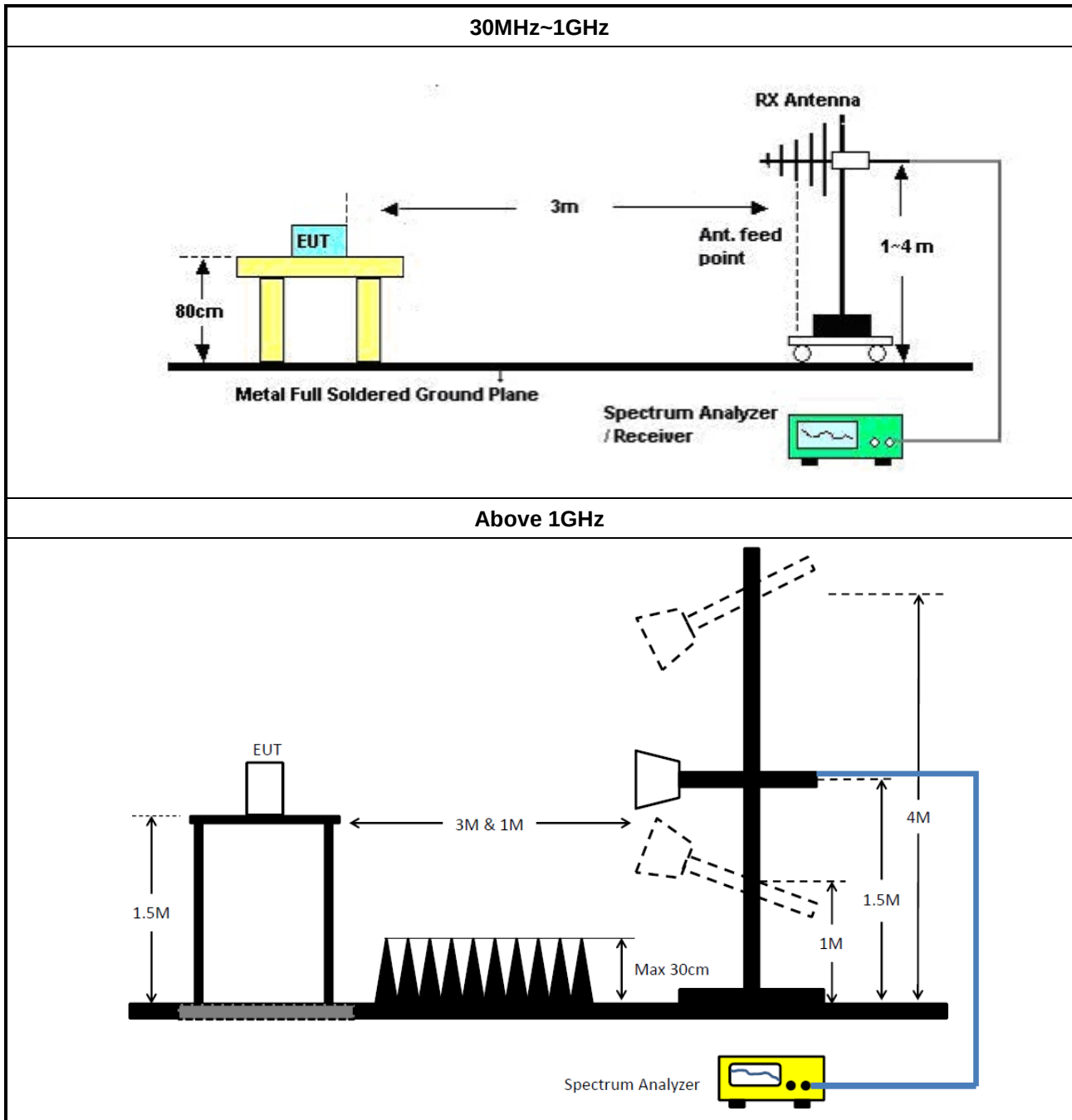
3.8.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.8.5 Test Setup





3.8.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.8.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G



4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer/ Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	05/Jan/2026	04/Jan/2027
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	29/Oct/2025	28/Oct/2026
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	17/Dec/2025	16/Dec/2026
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	17/Dec/2025	16/Dec/2026
SENSE-15247_FS	Sporton	V5.11.28	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer/ Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	30MHz~1GHz 3m	15/Aug/2025	14/Aug/2026
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	29/Jul/2025	28/Jul/2026
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	28/Jul/2026	27/Jul/2027
EMI Test Receiver	ROHDE & SCHWARZ	ESR	10231822	9kHz~3.6GHz	08/Dec/2025	07/Dec/2026
Signal Analyzer	ROHDE&SCHWAR Z	FSV40	101345	10Hz~44GHz	26/Aug/2025	25/Aug/2026
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2026	15/Mar/2027
Bilog Antenna & 6dB Attenuator	TESEQ / Woken	CBL 6112D / 00800N1D01N-06	35376 / 02	30MHz~1GHz	12/Apr/2026	11/Apr/2027
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	07/Aug/2025	06/Aug/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	29/Jul/2026	28/Jul/2027
RF Cable	HUBER+SUHNER	SUOFLEX 104	03CH24-cable-01	9kHz~40GHz	02/Oct/2025	01/Oct/2026
Pre-Amplifier	Aglient	8447D	2944A06292	30MHz~1GHz	07/Apr/2026	06/Apr/2027
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	08/Aug/2025	07/Aug/2026
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	07/Aug/2026	06/Aug/2027
SENSE-15247-FS	Sporton	V5.11.24	NA	NA	NA	NA

**Instrument for Radiated Test Co-location**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	28/Jul/2026	27/Jul/2027
Signal Analyzer	ROHDE& SCHWARZ	FSV3044	101345	10Hz~44GHz	26/Aug/2025	25/Aug/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	29/Jul/2026	28/Jul/2027
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	07/Oct/2025	06/Oct/2026
RF Cable	HUBER+ SUHNER	SUOFLEX 104	03CH24-cable-01	9kHz~40GHz	02/Oct/2025	01/Oct/2026
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	07/Aug/2026	06/Aug/2027
Amplifier	EM	EM18G40GA	060874	18GHz ~40GHz	27/Apr/2026	26/Apr/2027
SENSE-15407-NII	Sporton	V5.11.27	NA	NA	NA	NA



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
LoRa (125kHz)	150.15k	129.489k	129KF1D	139.15k	127.928k

Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
LoRa (125kHz)	-	-	-	-
902.3MHz	Pass	Inf	150.15k	129.489k
908.7MHz	Pass	Inf	144.1k	128.014k
914.9MHz	Pass	Inf	139.15k	127.928k

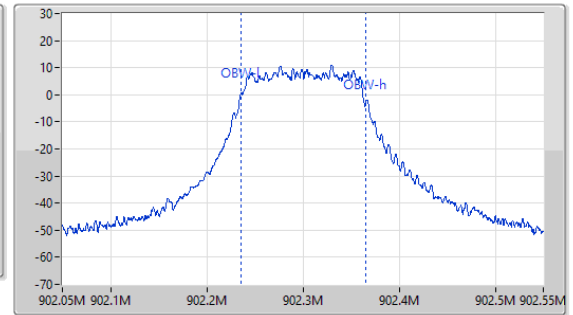
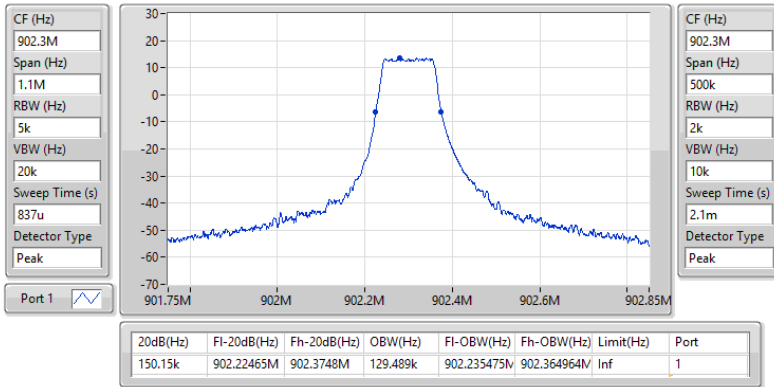
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

902-928MHz_LoRa (125kHz)

EBW-FS

902.3MHz

23/07/2026





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
LoRa (500kHz)	612.5k	504.337k	504KF1D	610k	502.618k

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
LoRa (500kHz)	-	-	-	-
923.3MHz	Pass	500k	612.5k	504.337k
926.9MHz	Pass	500k	610k	502.618k

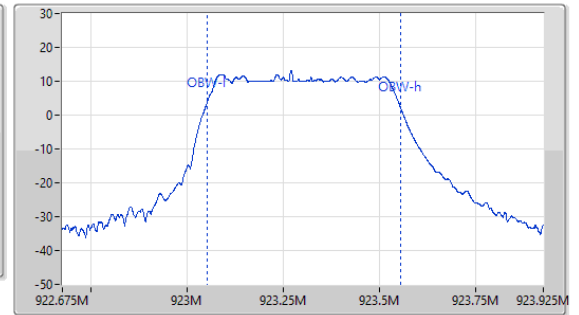
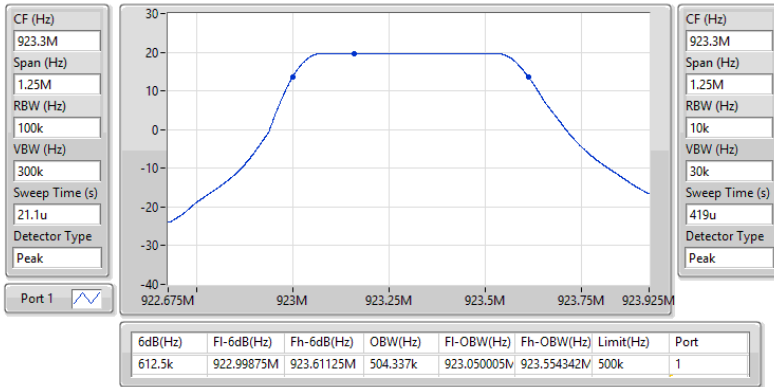
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

902-928MHz_LoRa (500kHz)

EBW-DTS

923.3MHz

23/07/2026





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
902-928MHz	-	-
LoRa (125kHz)	266.4k	197.7k

Result

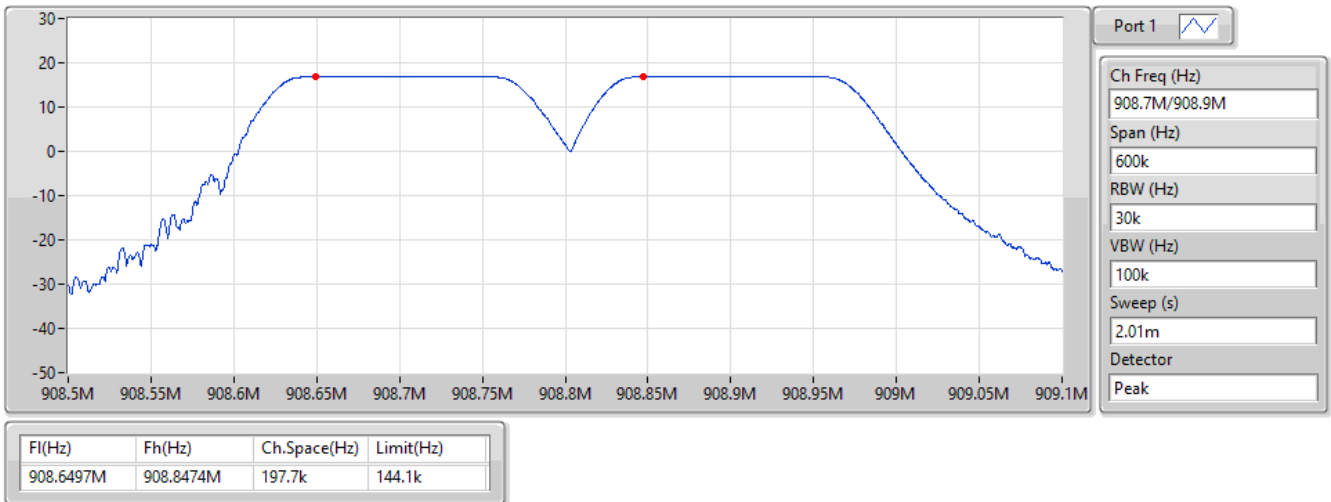
Mode	Result	Fi (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
LoRa (125kHz)	-	-	-	-	-
902.3MHz	Pass	902.3169M	902.5209M	204k	150.15k
908.7MHz	Pass	908.6497M	908.8474M	197.7k	144.1k
914.9MHz	Pass	914.6896M	914.956M	266.4k	139.15k

902-928MHz_LoRa (125kHz)

Channel Separation-FS

908.7M/908.9MHz

23/07/2026





Summary

Mode	Total Power (dBm)	Total Power (W)
902-928MHz	-	-
LoRa (125kHz)	19.58	0.09078



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
LoRa (125kHz)	-	-	-	-
902.3MHz	Pass	2.50	19.22	30.00
908.7MHz	Pass	2.50	19.58	30.00
914.9MHz	Pass	2.50	19.44	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Average Power-FHSS

Appendix B.2

Summary

Mode	Total Power (dBm)	Total Power (W)
902-928MHz	-	-
LoRa (125kHz)	19.47	0.08851



Average Power-FHSS

Appendix B.2

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
LoRa (125kHz)	-	-	-	-
902.3MHz	Pass	2.50	19.17	30.00
908.7MHz	Pass	2.50	19.47	30.00
914.9MHz	Pass	2.50	19.40	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	Total Power (dBm)	Total Power (W)
902-928MHz	-	-
LoRa (500kHz)	19.83	0.09616



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
LoRa (500kHz)	-	-	-	-
923.3MHz	Pass	2.50	19.54	30.00
926.9MHz	Pass	2.50	19.83	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	Total Power (dBm)	Total Power (W)
902-928MHz	-	-
LoRa (500kHz)	19.77	0.09484



Average Power-DTS

Appendix B.4

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
LoRa (500kHz)	-	-	-	-
923.3MHz	Pass	2.50	19.50	30.00
926.9MHz	Pass	2.50	19.77	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	PD (dBm/RBW)
902-928MHz	-
LoRa (500kHz)	7.14

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
LoRa (500kHz)	-	-	-	-
923.3MHz	Pass	2.50	5.85	8.00
926.9MHz	Pass	2.50	7.14	8.00

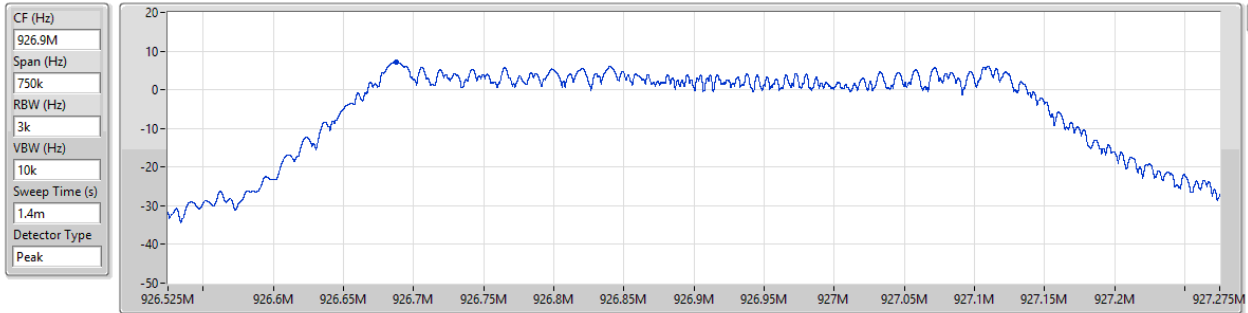
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

902-928MHz_LoRa (500kHz)

PSD

926.9MHz

29/07/2026



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.14	7.14	7.14



Summary

Mode	Max-Hop No
902-928MHz	-
LoRa (125kHz)	64



Result

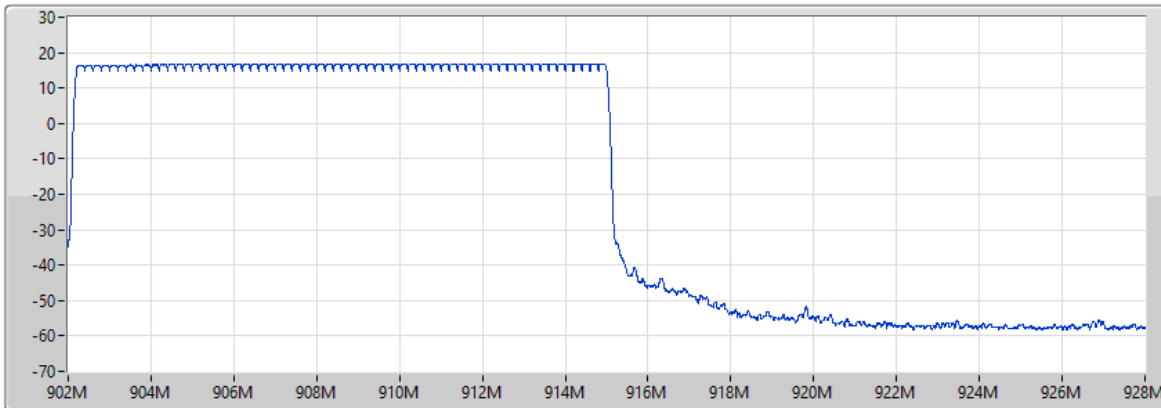
Mode	Result	Hopping No	Limit
LoRa (125kHz)	-	-	-
908.7MHz	Pass	64	50

902-928MHz_LoRa (125kHz)

Hopping-FS

908.7MHz

23/07/2026



Port 1 

Hopping No
64

Span (Hz)
26M

RBW (Hz)
100k

VBW (Hz)
300kHz

Sweep (s)
20.9us

Detector
Peak

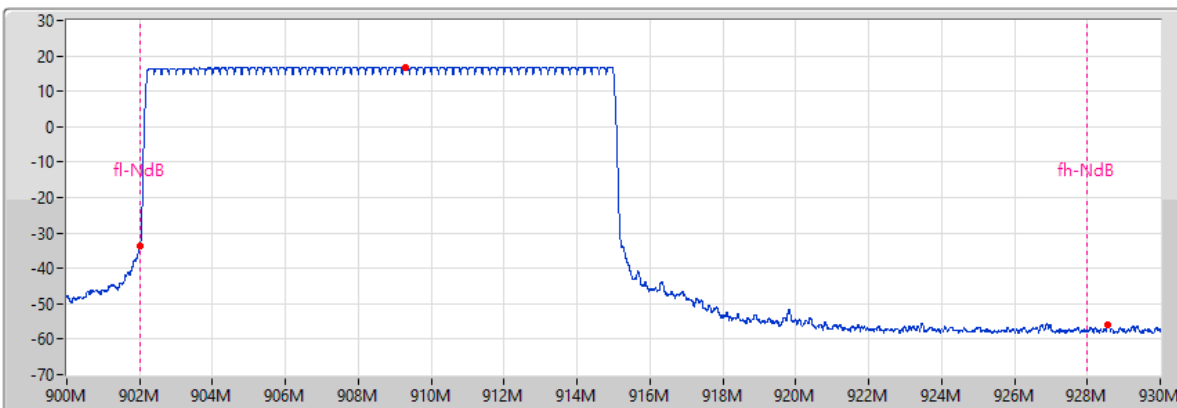
Hopping No	Limit
64	50

902-928MHz_LoRa (125kHz)

908.7MHz

Hopping Ch Bandedge (Non-restricted Band)

23/07/2026



Port 1 

Span (Hz)
30M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep (s)
20.9u

Detector
Peak

Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-3.31	909.27375M	16.69	901.99875M	-33.77	928.575M	-56.1



Summary

Mode 902-928MHz	Dwell (s)
LoRa (125kHz)	332.1875m__(1 Hops in 20 sec [332.1875ms/Hop])



Result

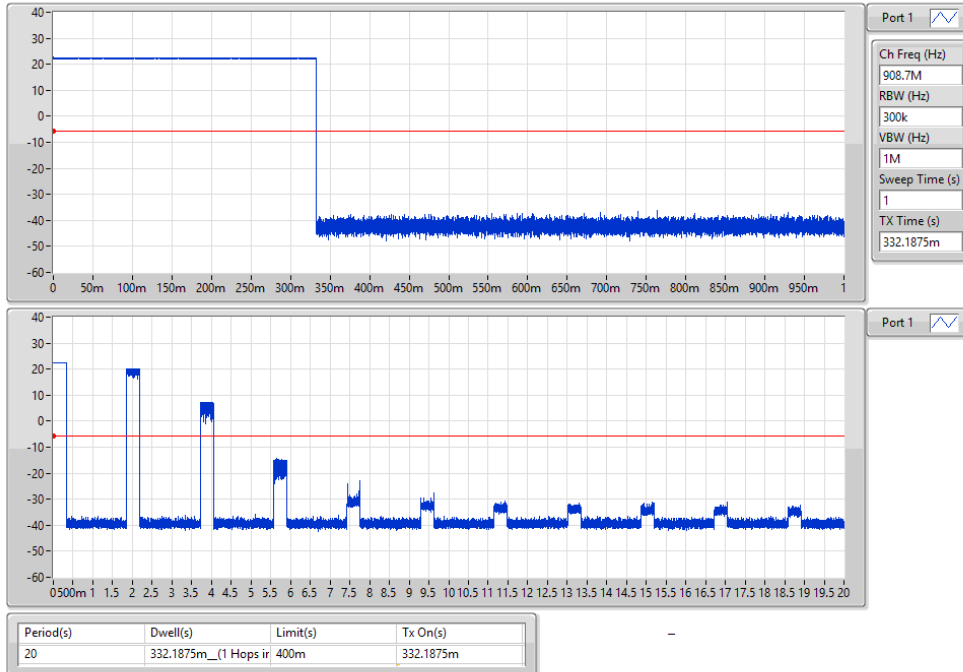
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
LoRa (125kHz)	-	-	-	-	-
908.7MHz	Pass	20	332.1875m__(1 Hops in 20 sec [332.1875ms/Hop])	400m	332.1875m

902-928MHz_LoRa (125kHz)

Dwell-FS

908.7MHz

29/07/2026





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
902-928MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LoRa (125kHz)	Pass	902.26M	16.48	-3.52	308.6M	-47.71	901.56M	-30.72	902M	-17.89	929.36M	-52.32	8.57092G	-48.25	1

Result

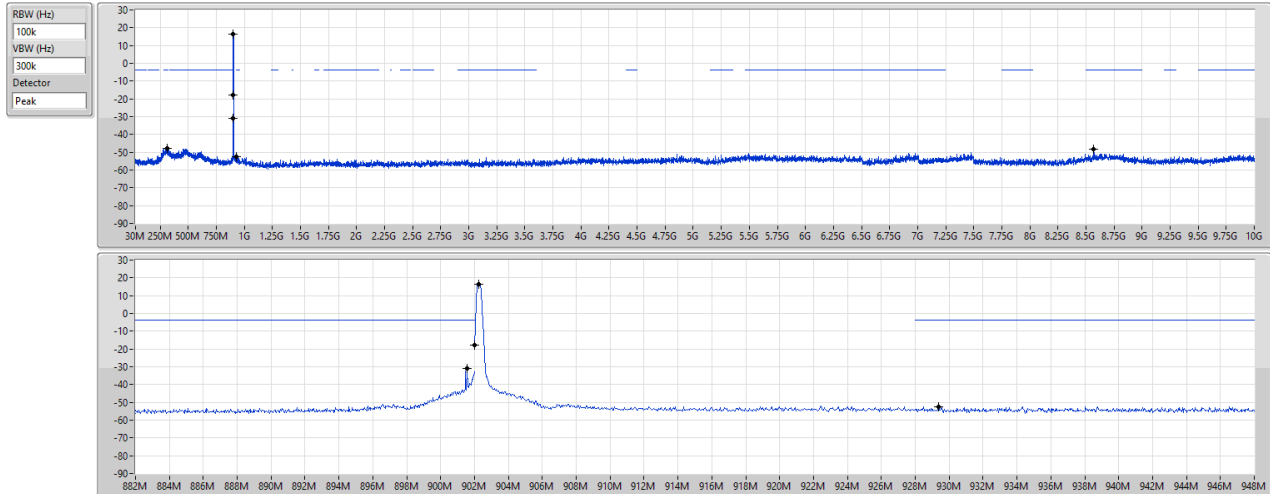
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
LoRa (125kHz)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
902.3MHz	Pass	902.26M	16.48	-3.52	308.6M	-47.71	901.56M	-30.72	902M	-17.89	929.36M	-52.32	8.57092G	-48.25	1
908.7MHz	Pass	908.66M	16.64	-3.36	306.05M	-48.31	900.8M	-52.34	902M	-53.09	945.36M	-52.72	8.73159G	-50.17	1
914.9MHz	Pass	914.9M	16.61	-3.39	351.2M	-48.15	882.36M	-52.67	902M	-54.15	940.96M	-52.65	5.48532G	-50.00	1

902-928MHz LoRa (125kHz)

CSEndB-FS

902.3MHz

23/07/2026



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
902.26M	16.48	-3.52	308.6M	-47.71	901.56M	-30.72	902M	-17.89	929.36M	-52.32	8.57092G	-48.25	1



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
902-928MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LoRa (500kHz)	Pass	926.7M	19.91	-0.09	365.69M	-50.67	894.92M	-52.19	928M	-8.29	928M	-8.54	6.27737G	-50.55	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
LoRa (500kHz)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
923.3MHz	Pass	923.16M	16.47	-3.53	340.55M	-49.30	885.8M	-52.51	928M	-36.94	928M	-37.80	8.81532G	-49.87	1
926.9MHz	Pass	926.7M	19.91	-0.09	365.69M	-50.67	894.92M	-52.19	928M	-8.29	928M	-8.54	6.27737G	-50.55	1

902-928MHz LoRa (500kHz)

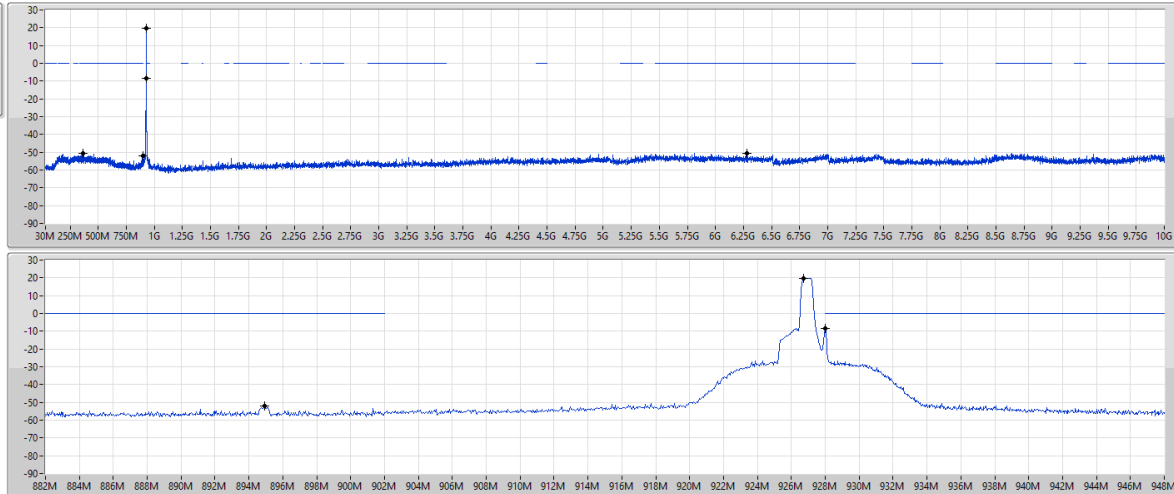
CSEndB-DTS

926.9MHz

29/07/2026

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
926.7M	19.91	-0.09	365.69M	-50.67	894.92M	-52.19	928M	-8.29	928M	-8.54	6.27737G	-50.55	1



Summary

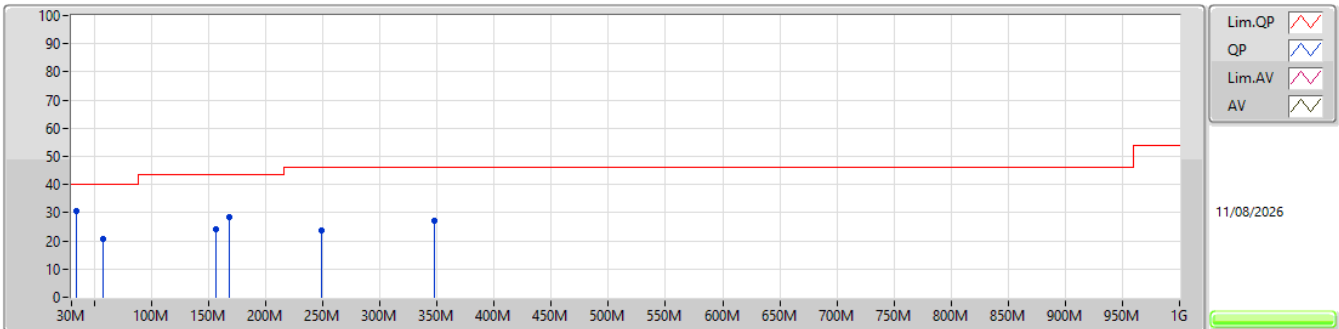
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
902-928MHz	-	-	-	-	-	-	-	-	-	-
LoRa (500kHz)	Pass	PK	154.16M	38.74	43.50	-4.76	3	Horizontal	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
LoRa (500kHz)	-	-	-	-	-	-	-	-	-	-
926.9MHz	Pass	PK	33.88M	30.44	40.00	-9.56	3	Vertical	0	1.00
926.9MHz	Pass	PK	57.16M	20.54	40.00	-19.46	3	Vertical	0	1.00
926.9MHz	Pass	PK	156.1M	24.26	43.50	-19.24	3	Vertical	0	1.00
926.9MHz	Pass	PK	167.74M	28.35	43.50	-15.15	3	Vertical	0	1.00
926.9MHz	Pass	PK	249.22M	23.87	46.00	-22.13	3	Vertical	0	1.00
926.9MHz	Pass	PK	348.16M	27.13	46.00	-18.87	3	Vertical	0	1.00
926.9MHz	Pass	PK	33.88M	21.60	40.00	-18.40	3	Horizontal	360	1.00
926.9MHz	Pass	PK	105.66M	28.40	43.50	-15.10	3	Horizontal	360	1.00
926.9MHz	Pass	PK	142.52M	35.25	43.50	-8.25	3	Horizontal	360	1.00
926.9MHz	Pass	PK	154.16M	38.74	43.50	-4.76	3	Horizontal	360	1.00
926.9MHz	Pass	PK	167.74M	38.33	43.50	-5.17	3	Horizontal	360	1.00
926.9MHz	Pass	PK	309.36M	29.20	46.00	-16.80	3	Horizontal	360	1.00

902-928MHz_LoRa (500kHz)

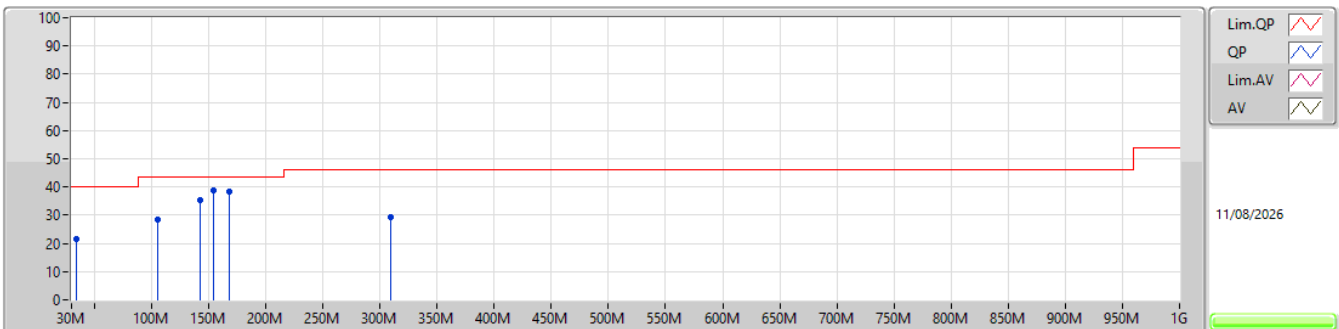
926.9MHz_Battery



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	33.88M	30.44	40.00	-9.56	-5.43	3	Vertical	0	1.00	35.87	21.45	0.47	27.35
PK	57.16M	20.54	40.00	-19.46	-15.35	3	Vertical	0	1.00	35.89	11.28	0.67	27.30
PK	156.1M	24.26	43.50	-19.24	-10.75	3	Vertical	0	1.00	35.01	15.20	1.03	26.98
PK	167.74M	28.35	43.50	-15.15	-10.95	3	Vertical	0	1.00	39.30	14.92	1.07	26.94
PK	249.22M	23.87	46.00	-22.13	-8.03	3	Vertical	0	1.00	31.90	17.24	1.28	26.55
PK	348.16M	27.13	46.00	-18.87	-6.17	3	Vertical	0	1.00	33.30	19.29	1.47	26.93

902-928MHz_LoRa (500kHz)

926.9MHz_Battery



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	33.88M	21.60	40.00	-18.40	-5.43	3	Horizontal	360	1.00	27.03	21.45	0.47	27.35
PK	105.66M	28.40	43.50	-15.10	-10.19	3	Horizontal	360	1.00	38.59	16.13	0.84	27.16
PK	142.52M	35.25	43.50	-8.25	-9.91	3	Horizontal	360	1.00	45.16	16.15	0.99	27.05
PK	154.16M	38.74	43.50	-4.76	-10.62	3	Horizontal	360	1.00	49.36	15.35	1.02	26.99
PK	167.74M	38.33	43.50	-5.17	-10.95	3	Horizontal	360	1.00	49.28	14.92	1.07	26.94
PK	309.36M	29.20	46.00	-16.80	-6.88	3	Horizontal	360	1.00	36.08	18.35	1.38	26.61



Summary

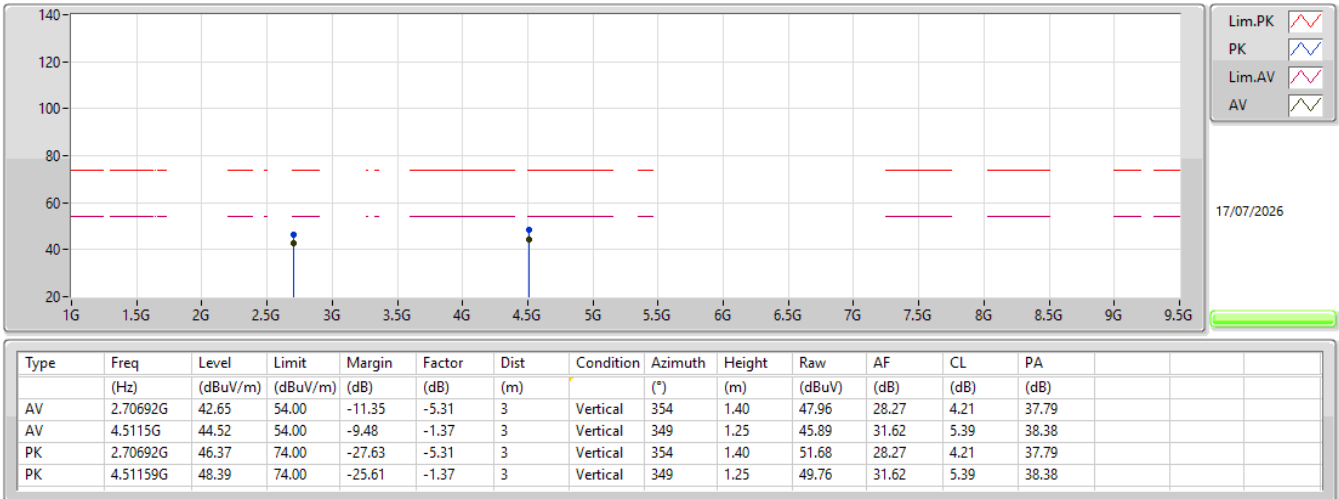
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
902-928MHz	-	-	-	-	-	-	-	-	-	-
LoRa (125kHz)	Pass	AV	4.51149G	50.21	54.00	-3.79	3	Horizontal	35	2.67
LoRa (500kHz)	Pass	AV	2.78069G	47.06	54.00	-6.94	3	Vertical	121	1.21

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
LoRa (125kHz)	-	-	-	-	-	-	-	-	-	-
902.3MHz	Pass	AV	2.70692G	42.65	54.00	-11.35	3	Vertical	354	1.40
902.3MHz	Pass	AV	4.5115G	44.52	54.00	-9.48	3	Vertical	349	1.25
902.3MHz	Pass	PK	2.70692G	46.37	74.00	-27.63	3	Vertical	354	1.40
902.3MHz	Pass	PK	4.51159G	48.39	74.00	-25.61	3	Vertical	349	1.25
902.3MHz	Pass	AV	2.7069G	43.67	54.00	-10.33	3	Horizontal	20	2.77
902.3MHz	Pass	AV	4.51149G	50.21	54.00	-3.79	3	Horizontal	35	2.67
902.3MHz	Pass	PK	2.70688G	46.91	74.00	-27.09	3	Horizontal	20	2.77
902.3MHz	Pass	PK	4.51152G	52.54	74.00	-21.46	3	Horizontal	35	2.67
908.7MHz	Pass	AV	2.72609G	43.71	54.00	-10.29	3	Vertical	131	1.42
908.7MHz	Pass	AV	4.54351G	43.10	54.00	-10.90	3	Vertical	77	3.00
908.7MHz	Pass	PK	2.7261G	47.09	74.00	-26.91	3	Vertical	131	1.42
908.7MHz	Pass	PK	4.54356G	48.00	74.00	-26.00	3	Vertical	77	3.00
908.7MHz	Pass	AV	2.72609G	43.84	54.00	-10.16	3	Horizontal	22	2.49
908.7MHz	Pass	AV	4.54349G	49.74	54.00	-4.26	3	Horizontal	34	2.67
908.7MHz	Pass	PK	2.72606G	46.85	74.00	-27.15	3	Horizontal	22	2.49
908.7MHz	Pass	PK	4.54345G	52.08	74.00	-21.92	3	Horizontal	34	2.67
914.9MHz	Pass	AV	2.74469G	46.56	54.00	-7.44	3	Vertical	360	1.29
914.9MHz	Pass	AV	4.5745G	42.09	54.00	-11.91	3	Vertical	87	1.93
914.9MHz	Pass	PK	2.74471G	48.93	74.00	-25.07	3	Vertical	360	1.29
914.9MHz	Pass	PK	4.57442G	47.00	74.00	-27.00	3	Vertical	87	1.93
914.9MHz	Pass	AV	2.74471G	45.35	54.00	-8.65	3	Horizontal	24	2.96
914.9MHz	Pass	AV	4.5745G	48.46	54.00	-5.54	3	Horizontal	34	2.41
914.9MHz	Pass	PK	2.74468G	47.97	74.00	-26.03	3	Horizontal	24	2.96
914.9MHz	Pass	PK	4.57451G	51.08	74.00	-22.92	3	Horizontal	34	2.41
LoRa (500kHz)	-	-	-	-	-	-	-	-	-	-
923.3MHz	Pass	AV	2.76998G	44.38	54.00	-9.62	3	Vertical	148	1.45
923.3MHz	Pass	AV	4.61661G	36.92	54.00	-17.08	3	Vertical	350	1.57
923.3MHz	Pass	PK	2.7705G	48.54	74.00	-25.46	3	Vertical	148	1.45
923.3MHz	Pass	PK	4.61746G	45.79	74.00	-28.21	3	Vertical	350	1.57
923.3MHz	Pass	AV	2.7699G	42.10	54.00	-11.90	3	Horizontal	174	1.61
923.3MHz	Pass	AV	4.61634G	42.09	54.00	-11.91	3	Horizontal	36	2.52
923.3MHz	Pass	PK	2.76962G	46.73	74.00	-27.27	3	Horizontal	174	1.61
923.3MHz	Pass	PK	4.61648G	49.41	74.00	-24.59	3	Horizontal	36	2.52
926.9MHz	Pass	AV	2.78069G	47.06	54.00	-6.94	3	Vertical	121	1.21
926.9MHz	Pass	AV	4.6345G	42.44	54.00	-11.56	3	Vertical	87	1.48
926.9MHz	Pass	PK	2.78064G	49.21	74.00	-24.79	3	Vertical	121	1.21
926.9MHz	Pass	PK	4.63442G	47.15	74.00	-26.85	3	Vertical	87	1.48
926.9MHz	Pass	AV	2.78069G	41.41	54.00	-12.59	3	Horizontal	204	1.46
926.9MHz	Pass	AV	4.63449G	46.25	54.00	-7.75	3	Horizontal	217	2.80
926.9MHz	Pass	PK	2.78064G	45.42	74.00	-28.58	3	Horizontal	204	1.46
926.9MHz	Pass	PK	4.63448G	49.65	74.00	-24.35	3	Horizontal	217	2.80

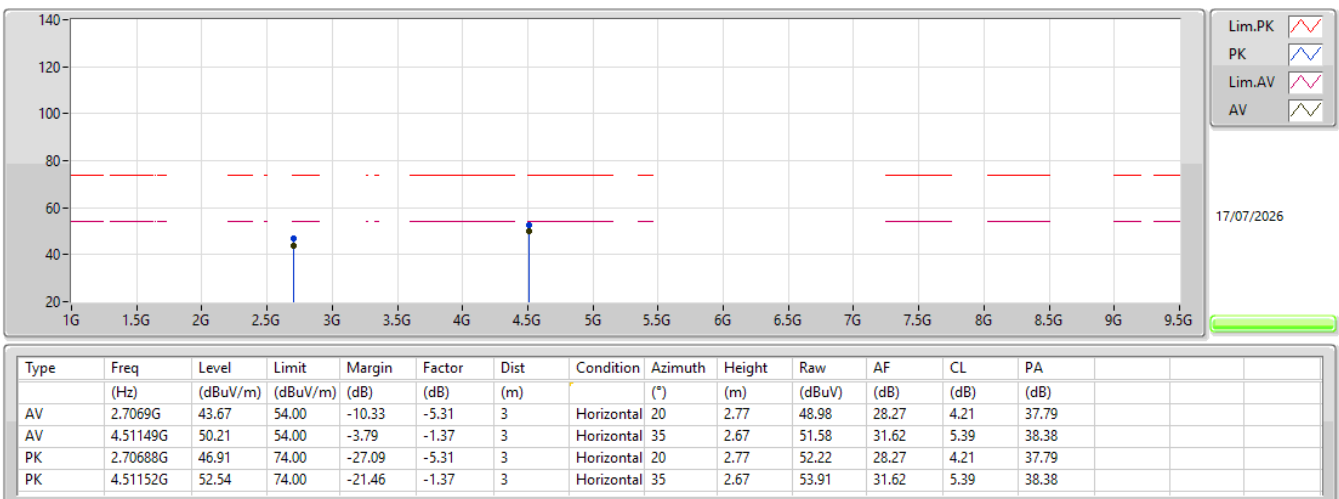
902-928MHz_LoRa (125kHz)

902.3MHz_TX



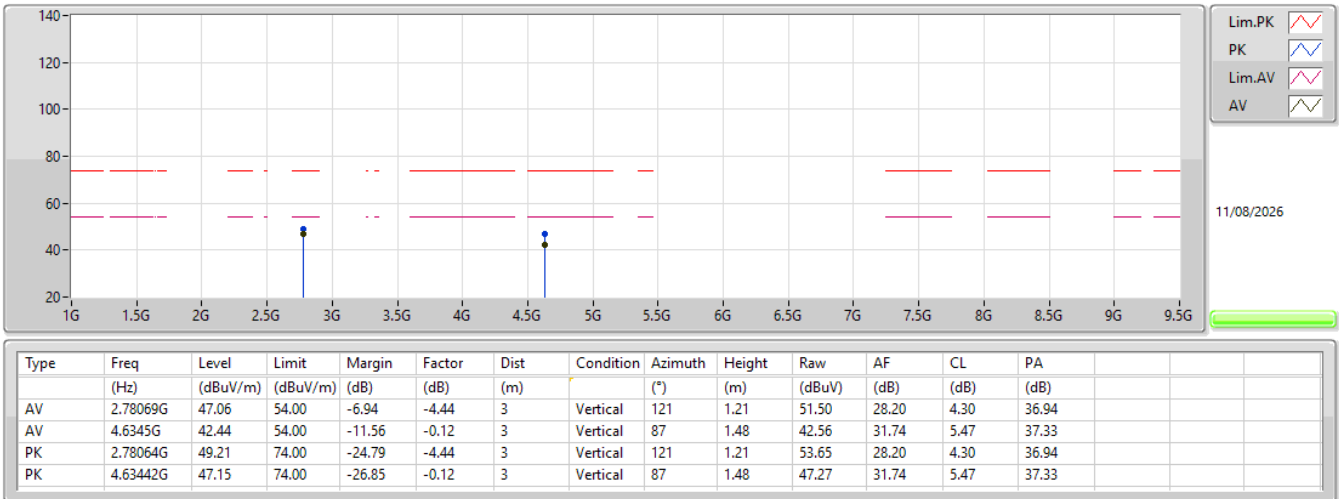
902-928MHz_LoRa (125kHz)

902.3MHz_TX



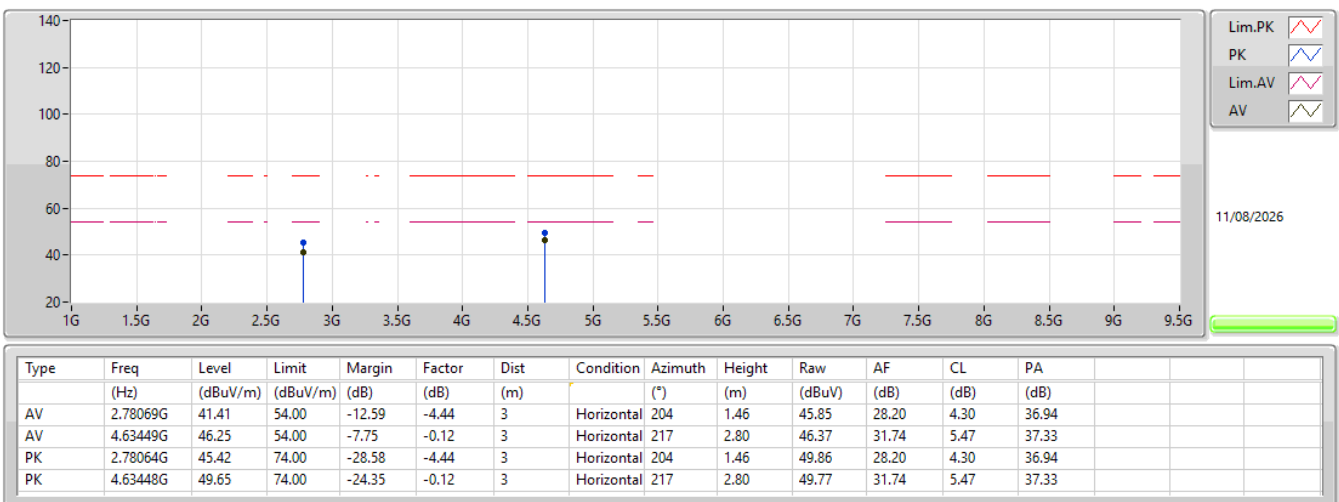
902-928MHz_LoRa (500kHz)

926.9MHz_TX



902-928MHz_LoRa (500kHz)

926.9MHz_TX





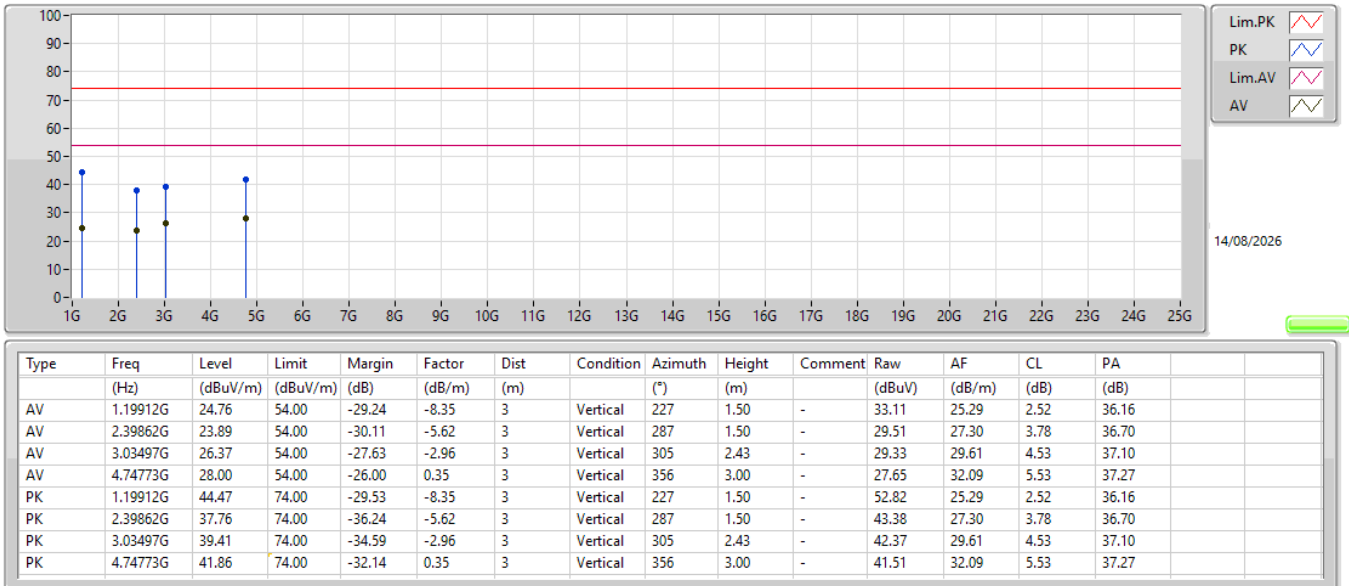
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	5.04508G	28.59	54.00	-25.41	Horizontal

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	1.19912G	24.76	54.00	-29.24	3	Vertical	227	1.50
Mode 1	Pass	AV	2.39862G	23.89	54.00	-30.11	3	Vertical	287	1.50
Mode 1	Pass	AV	3.03497G	26.37	54.00	-27.63	3	Vertical	305	2.43
Mode 1	Pass	AV	4.74773G	28.00	54.00	-26.00	3	Vertical	356	3.00
Mode 1	Pass	PK	1.19912G	44.47	74.00	-29.53	3	Vertical	227	1.50
Mode 1	Pass	PK	2.39862G	37.76	74.00	-36.24	3	Vertical	287	1.50
Mode 1	Pass	PK	3.03497G	39.41	74.00	-34.59	3	Vertical	305	2.43
Mode 1	Pass	PK	4.74773G	41.86	74.00	-32.14	3	Vertical	356	3.00
Mode 1	Pass	AV	1.35295G	23.09	54.00	-30.91	3	Horizontal	339	2.68
Mode 1	Pass	AV	2.19868G	24.99	54.00	-29.01	3	Horizontal	68	2.44
Mode 1	Pass	AV	3.45464G	26.20	54.00	-27.80	3	Horizontal	31	2.91
Mode 1	Pass	AV	5.04508G	28.59	54.00	-25.41	3	Horizontal	146	2.51
Mode 1	Pass	PK	1.35295G	37.29	74.00	-36.71	3	Horizontal	339	2.68
Mode 1	Pass	PK	2.19868G	39.10	74.00	-34.90	3	Horizontal	68	2.44
Mode 1	Pass	PK	3.45464G	39.96	74.00	-34.04	3	Horizontal	31	2.91
Mode 1	Pass	PK	5.04508G	41.94	74.00	-32.06	3	Horizontal	146	2.51

Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 1

