

FCC Radio Test Report

Contains FCC ID : RI7ME910G1WW
FCC ID : 2BAH4SBG-2
Equipment : Silvanet Border Gateway, Silvanet Mesh Gateway
Brand Name :  **Dryad** 
Model Name : SBG-2, SMG-2
Applicant : Dryad Networks GmbH
Eisenbahnstr. 37, 16225 Eberswalde, Germany
Manufacturer : Dryad Networks GmbH
Eisenbahnstr. 37, 16225 Eberswalde, Germany
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 19, 2024, and testing was started from Mar. 30, 2024 and completed on Jun. 03, 2024. 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 C63.10-2013 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

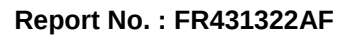
SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	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: Terry Chang

Report Producer: Michelle Tsai

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)	903-914.2	8
902-928 MHz	LoRa (500kHz)	923.3-927.5	8

Band	Mode	BWch (MHz)	Nant
902-928MHz	LoRa (125kHz)	0.125	1TX
902-928MHz	LoRa (500kHz)	0.5	1TX
902-928MHz	LoRa (500kHz)	0.5	1TX

Note:

- ♦ 902-928 MHz Band uses as a hybrid system using DTS & FHSS.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	ALFA	AOA-868-5ACM	Dipole	N male	5

1.1.3 Type of EUT

Operational Condition	
EUT Power Type	From PoE
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)	0.709	1.49	3.449	10
LoRa (500kHz)	0.378	4.23	739.688m	10

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



1.1.5 Table for Multiple Listing

Equipment Name	Model Name	PoE Layout component	Cellular (WWAN) Chip	Satellite Communications Chip
Silvanet Border Gateway	SBG-2	With	With	With
Silvanet Mesh Gateway	SMG-2	Without	Without	Without

Note: The model SBG-2 was measured during the test.

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 C63.10-2013

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

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Ivan Chung	22.2~23.4°C / 54~57%	19/Apr/2024
RF Conducted	TH07-HY	Yuna Lin	22.7~23.6°C / 52~60%	19/Apr/2024~23/Apr/2024
Radiated	03CH03-HY	Darren Cho	21.3~22.6°C / 51~53%	30/Mar/2024~08/Apr/2024
Radiated (Co-Location)	03CH02-HY	Simon Cheng	21.7~22.3°C / 50~52%	03/Jun/2024
☐ 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.				

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
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TX-DTS	Tnom	20°C
-	Vnom	3.3V

2.2 Test Channel Mode

Test Software Version	Tera Term Version 4.76
-----------------------	------------------------

Mode	Power Setting
LoRa (500kHz)	-
903MHz	14
909.4MHz	13
914.2MHz	14
LoRa (500kHz)	
923.3MHz	14
927.5MHz	15
LoRa (125kHz)	-
902.3MHz	12
908.7MHz	11
914.9MHz	11

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	PoE Mode

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)
Non-AFH Mode configuration was found to be the worst case and measured during the test.	

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	PoE Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WWAN Cat M1 + Lora
2	WWAN NB-IoT + Lora
3	WWAN 2G + Lora
Refer to Sporton Test Report No.: FA431322 for Co-location RF Exposure Evaluation and Appendix H for Radiated Emission Co-location.	



2.4 Support Equipment

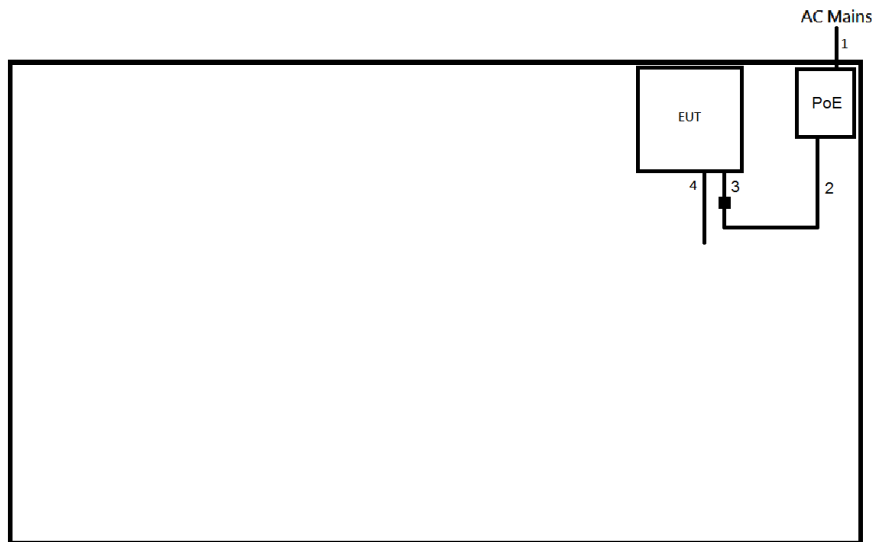
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PoE	PHIHONG	POE20U-560	-	-
2	AC power cable	Power Sync	PW-GPC180-3	-	-

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

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PoE	PHIHONG	POE20U-560	-	-
2	AC power cable	Power Sync	PW-GPC180-3	-	-

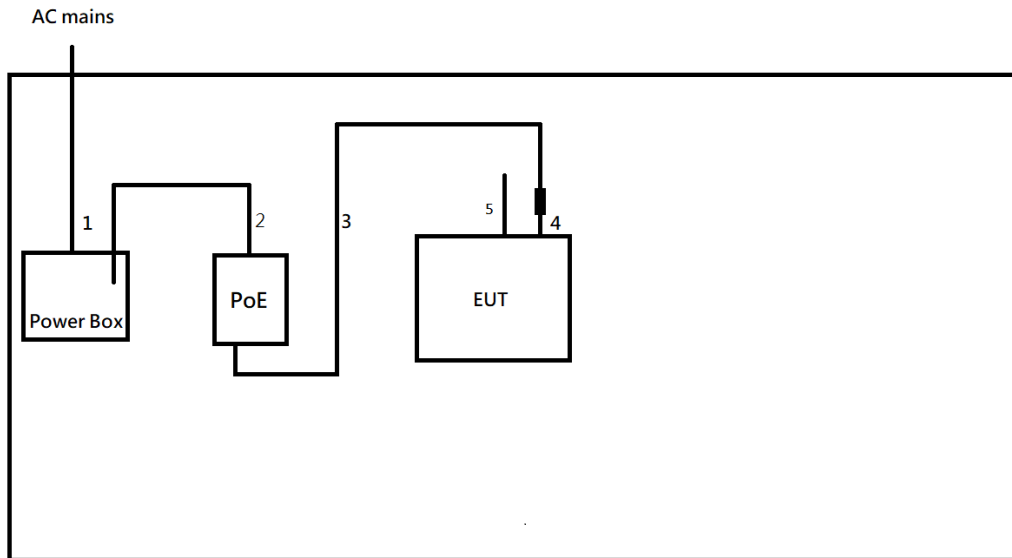
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	RJ45 Cable	Yes	0.5	-
3	RJ45 Cable	Yes	0.2	-
4	DC Power Cable	No	0.4	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC power cable	No	1.8	-
2	AC power cable	No	1.8	-
3	RJ45 cable	Yes	0.5	-
4	RJ45 cable	Yes	0.2	
5	DC power cable	No	0.4	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

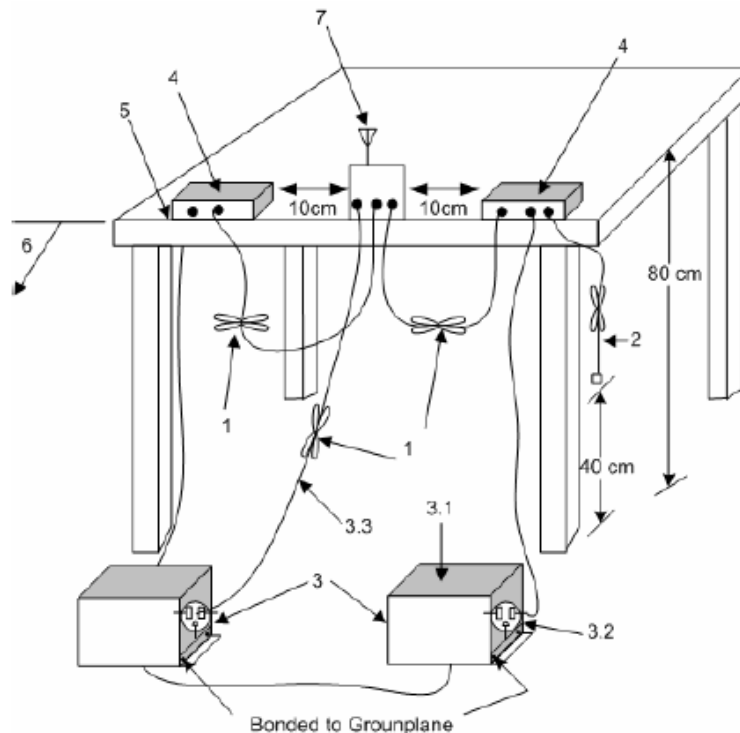
3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup

AC Power-line Conducted Emissions



- 1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
- 2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
- 3.1—All other equipment powered from additional LISN(s).
- 3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
- 3.3—LISN at least 80 cm from nearest part of EUT chassis.
- 4—Non-EUT components of EUT system being tested.
- 5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
- 6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
- 7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.6 Test Result of AC Power-line Conducted Emissions

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

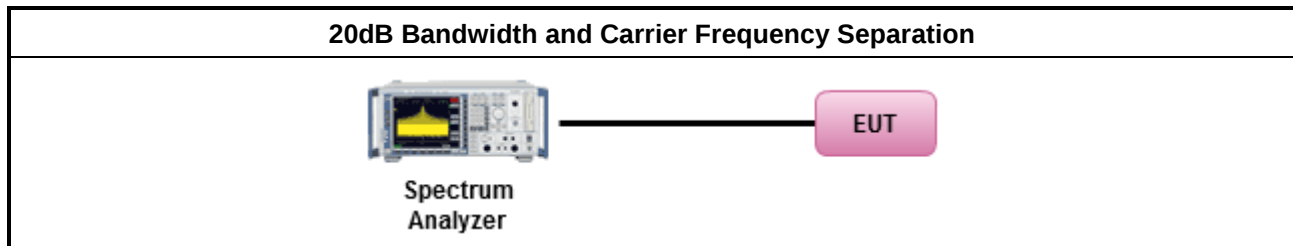
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.
☒ Refer as ANSI C63.10-2013, 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 B

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

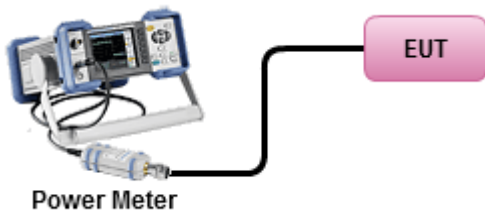
3.3.2 Measuring Instruments

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 ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☒	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 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: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

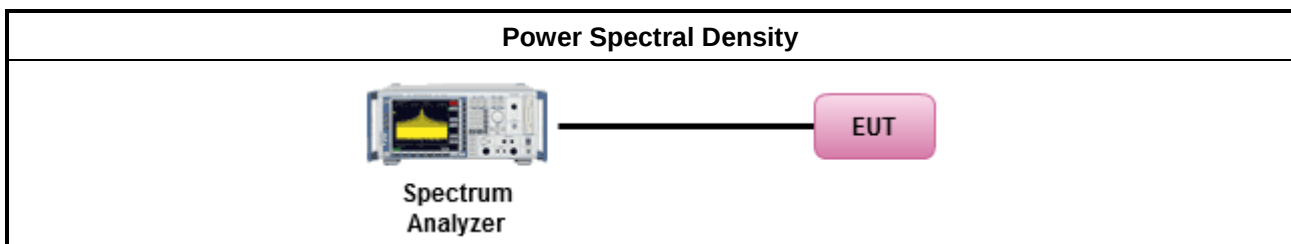
3.4.2 Measuring Instruments

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 D

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

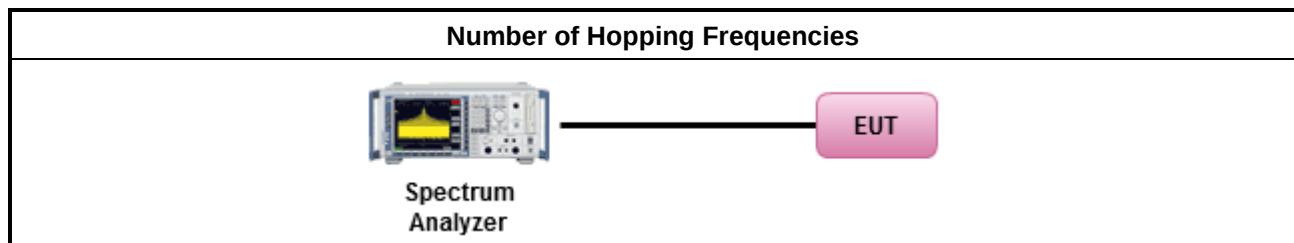
3.5.3 Measuring Instruments

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

3.5.4 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
☒ Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement.

3.5.5 Test Setup



3.5.6 Test Result of Number of Hopping Frequencies

Refer as Appendix E

3.5.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix E

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	

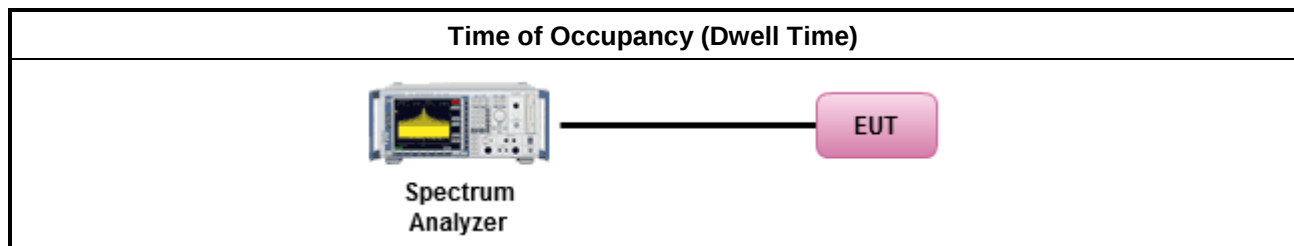
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, 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 F

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.	

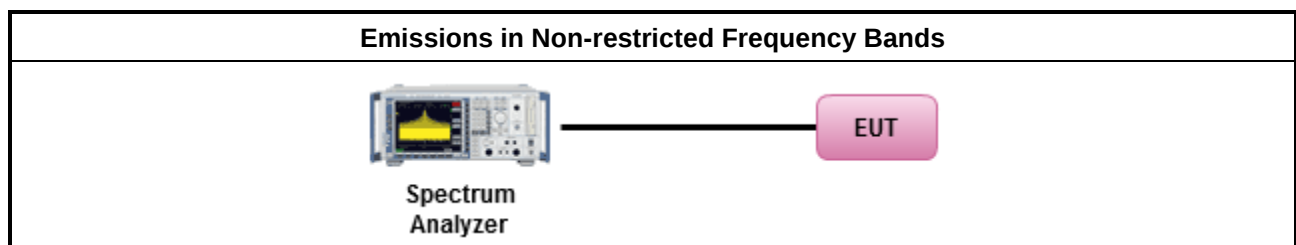
3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 7.8.8 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 G

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

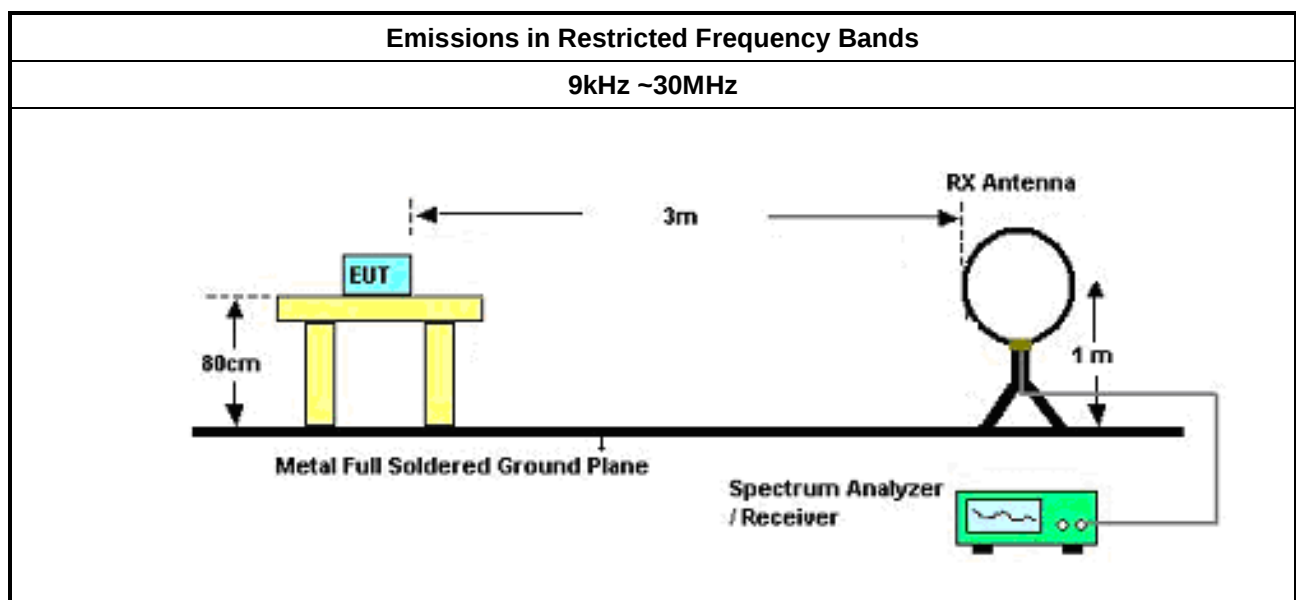
Test Method	
- The average emission levels shall be measured in [hopping duty factor]. - Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	For the transmitter unwanted emissions shall be measured using following options below:
	- Refer as ANSI C63.10, clause 4.1.4.2.1 QP value. - Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak. - Refer as ANSI C63.10, clause 4.1.4.2.4 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.

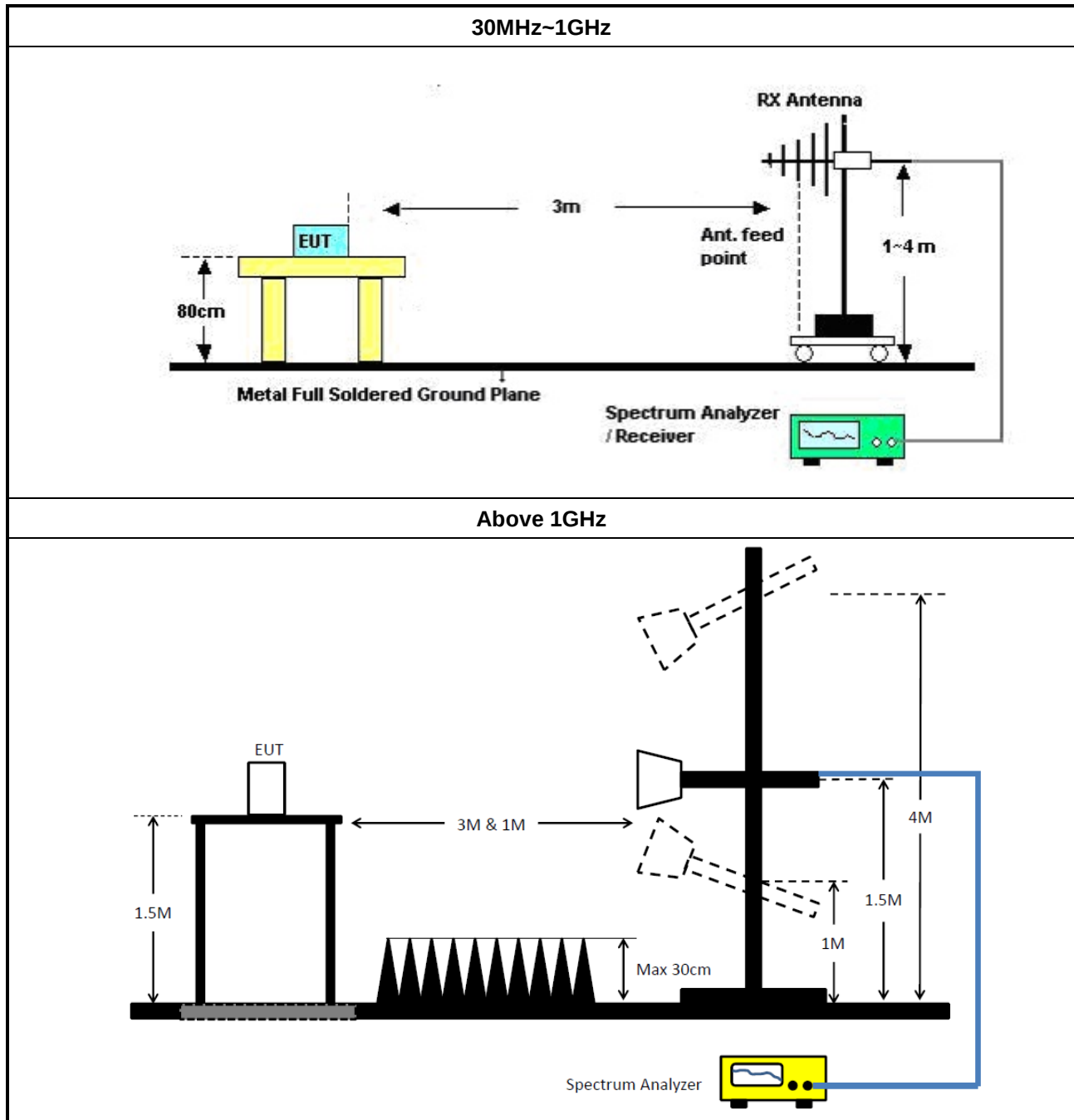
3.8.4 Measurement Results Calculation

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 H



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer/ Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102051	9kHz ~ 3.6GHz	16/May/2023	15/May/2024
Two-Line V-Network	R&S	ENV 216	101295	9kHz ~ 30MHz	05/Feb/2024	04/Feb/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	27/Feb/2024	26/Feb/2025
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	18/Oct/2023	17/Oct/2024
Sporton	SENSE-EMI	V5.11.3	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH03-HY)

Instrument	Manufacturer/ Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	28/Jul/2023	27/Jul/2024
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	30/Jul/2023	29/Jul/2024
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	26/May/2023	25/May/2024
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	26/Oct/2023	25/Oct/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	15/Oct/2023	14/Oct/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	04/Oct/2023	03/Oct/2024
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	13/Jun/2023	12/Jun/2024
RF Cable-R03m	Jye Bao	RG142	03CH03-cable-0 2	30MHz~1GHz	13/Jun/2023	12/Jun/2024
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	03CH03-cable-0 3	1GHz~40GHz	20/Feb/2024	19/Feb/2025
Amplifier	Aglient	8447D	2944A08033	10kHz~1.3GHz	14/Sep/2023	13/Sep/2024
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	26/Jul/2023	25/Jul/2024
Sporton	SENSE-15247_FS	V5.11.16	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (03CH02-HY)**

Instrument	Manufacturer/ Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	28/Jul/2023	27/Jul/2024
Signal Analyzer	R&S	FSP 40	100593	9kHz~40GHz	11/Mar/2024	10/Mar/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2023	22/Sep/2024
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-01	1GHz~40GHz	15/Feb/2024	14/Feb/2025
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	24/Oct/2023	23/Oct/2024
SENSE-EMI	Sporton	V5.11.8	NA	NA	NA	NA

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	9kHz~40GHz	02/Feb/2024	01/Feb/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	20/Oct/2023	19/Oct/2024
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	15/Dec/2023	14/Dec/2024
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	15/Dec/2023	14/Dec/2024
SENSE-15247_ FS	Sporton	V5.11.17	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline

Appendix A

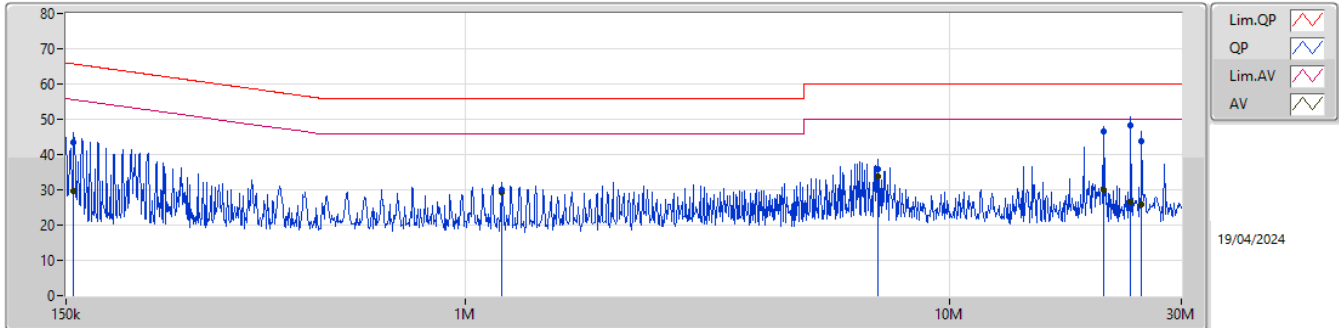
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	23.589M	48.27	60.00	-11.73	Line

Result

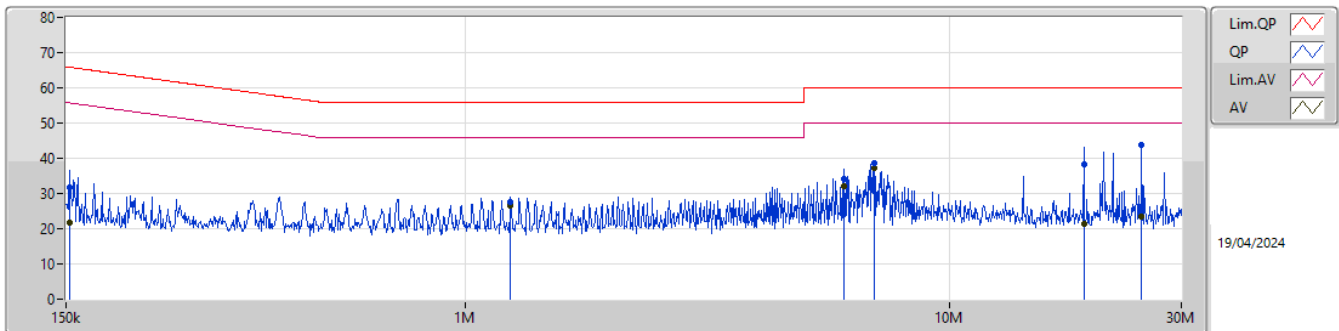
Mode	Result	Type	Freq (Hz)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	155.487k	43.32	65.69	-22.37	Line	-
Mode 1	Pass	AV	155.487k	29.82	55.69	-25.87	Line	-
Mode 1	Pass	QP	1.191M	30.09	56.00	-25.91	Line	-
Mode 1	Pass	AV	1.191M	29.34	46.00	-16.66	Line	-
Mode 1	Pass	QP	7.093M	36.02	60.00	-23.98	Line	-
Mode 1	Pass	AV	7.093M	33.73	50.00	-16.27	Line	-
Mode 1	Pass	QP	20.76M	46.70	60.00	-13.30	Line	-
Mode 1	Pass	AV	20.76M	29.91	50.00	-20.09	Line	-
Mode 1	Pass	QP	23.589M	48.27	60.00	-11.73	Line	-
Mode 1	Pass	AV	23.589M	26.70	50.00	-23.30	Line	-
Mode 1	Pass	QP	24.845M	43.65	60.00	-16.35	Line	-
Mode 1	Pass	AV	24.845M	25.70	50.00	-24.30	Line	-
Mode 1	Pass	QP	152.414k	31.73	65.87	-34.14	Neutral	-
Mode 1	Pass	AV	152.414k	21.72	55.87	-34.15	Neutral	-
Mode 1	Pass	QP	1.239M	27.55	56.00	-28.45	Neutral	-
Mode 1	Pass	AV	1.239M	26.52	46.00	-19.48	Neutral	-
Mode 1	Pass	QP	6.047M	34.18	60.00	-25.82	Neutral	-
Mode 1	Pass	AV	6.047M	32.14	50.00	-17.86	Neutral	-
Mode 1	Pass	QP	6.981M	38.56	60.00	-21.44	Neutral	-
Mode 1	Pass	AV	6.981M	37.26	50.00	-12.74	Neutral	-
Mode 1	Pass	QP	18.863M	38.20	60.00	-21.80	Neutral	-
Mode 1	Pass	AV	18.863M	21.34	50.00	-28.66	Neutral	-
Mode 1	Pass	QP	24.845M	43.94	60.00	-16.06	Neutral	-
Mode 1	Pass	AV	24.845M	23.39	50.00	-26.61	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	155.487k	43.32	65.69	-22.37	19.43	Line	-	23.89	9.61	0.07	9.75						
AV	155.487k	29.82	55.69	-25.87	19.43	Line	-	10.39	9.61	0.07	9.75						
QP	1.191M	30.09	56.00	-25.91	19.51	Line	-	10.58	9.61	0.10	9.80						
AV	1.191M	29.34	46.00	-16.66	19.51	Line	-	9.83	9.61	0.10	9.80						
QP	7.093M	36.02	60.00	-23.98	19.50	Line	-	16.52	9.65	0.06	9.79						
AV	7.093M	33.73	50.00	-16.27	19.50	Line	-	14.23	9.65	0.06	9.79						
QP	20.76M	46.70	60.00	-13.30	19.54	Line	-	27.16	9.59	0.12	9.83						
AV	20.76M	29.91	50.00	-20.09	19.54	Line	-	10.37	9.59	0.12	9.83						
QP	23.589M	48.27	60.00	-11.73	19.51	Line	-	28.76	9.54	0.13	9.84						
AV	23.589M	26.70	50.00	-23.30	19.51	Line	-	7.19	9.54	0.13	9.84						
QP	24.845M	43.65	60.00	-16.35	19.50	Line	-	24.15	9.52	0.13	9.85						
AV	24.845M	25.70	50.00	-24.30	19.50	Line	-	6.20	9.52	0.13	9.85						

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	152.414k	31.73	65.87	-34.14	19.44	Neutral	-	12.29	9.62	0.07	9.75						
AV	152.414k	21.72	55.87	-34.15	19.44	Neutral	-	2.28	9.62	0.07	9.75						
QP	1.239M	27.55	56.00	-28.45	19.51	Neutral	-	8.04	9.61	0.10	9.80						
AV	1.239M	26.52	46.00	-19.48	19.51	Neutral	-	7.01	9.61	0.10	9.80						
QP	6.047M	34.18	60.00	-25.82	19.51	Neutral	-	14.67	9.66	0.06	9.79						
AV	6.047M	32.14	50.00	-17.86	19.51	Neutral	-	12.63	9.66	0.06	9.79						
QP	6.981M	38.56	60.00	-21.44	19.52	Neutral	-	19.04	9.67	0.06	9.79						
AV	6.981M	37.26	50.00	-12.74	19.52	Neutral	-	17.74	9.67	0.06	9.79						
QP	18.863M	38.20	60.00	-21.80	19.64	Neutral	-	18.56	9.70	0.11	9.83						
AV	18.863M	21.34	50.00	-28.66	19.64	Neutral	-	1.70	9.70	0.11	9.83						
QP	24.845M	43.94	60.00	-16.06	19.66	Neutral	-	24.28	9.68	0.13	9.85						
AV	24.845M	23.39	50.00	-26.61	19.66	Neutral	-	3.73	9.68	0.13	9.85						



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
LoRa (125kHz)	151.25k	127.84k	128KF1D	131.45k	127.055k

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	151.25k	127.84k
908.7MHz	Pass	Inf	134.2k	127.165k
914.9MHz	Pass	Inf	131.45k	127.055k

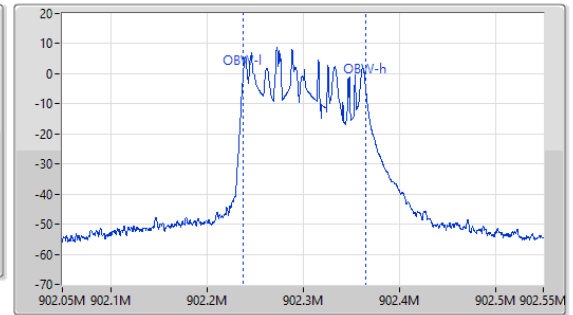
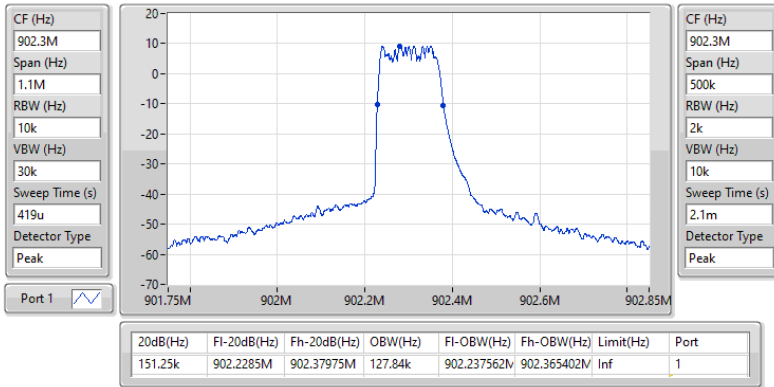
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

902-928MHz_LoRa (125kHz)

EBW-FS

902.3MHz

19/04/2024





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
902-928MHz	-	-
LoRa (125kHz)	224.4k	199.2k



Result

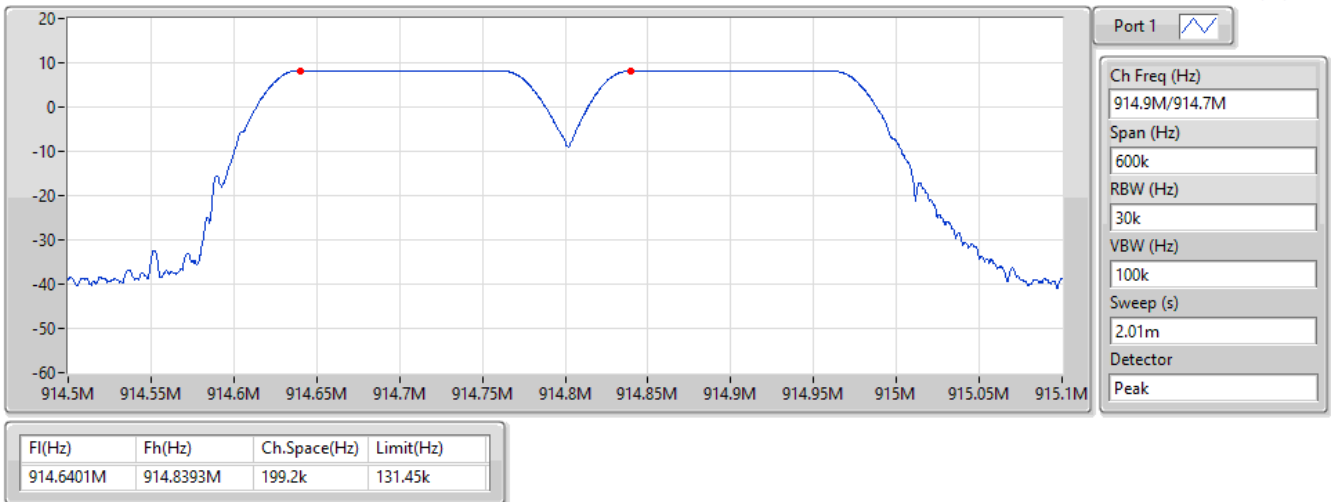
Mode	Result	Fi (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
LoRa (125kHz)	-	-	-	-	-
902.3MHz	Pass	902.2383M	902.439M	200.7k	151.25k
908.7MHz	Pass	908.7217M	908.9461M	224.4k	130.35k
914.9MHz	Pass	914.6401M	914.8393M	199.2k	131.45k

902-928MHz_LoRa (125kHz)

Channel Separation-FS

914.9M/914.7MHz

19/04/2024



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
LoRa (500kHz)	633.125k	496.29k	496KF1D	630k	495.487k
902-928MHz	-	-	-	-	-
LoRa (500kHz)	633.75k	497.231k	497KF1D	626.25k	496.972k

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

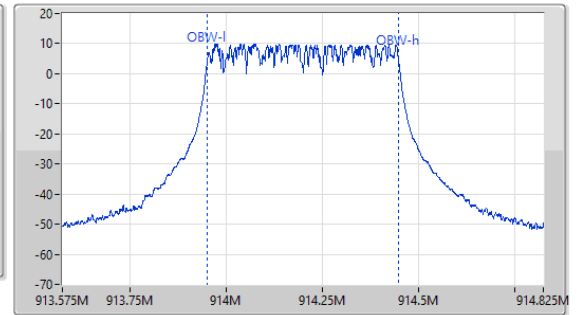
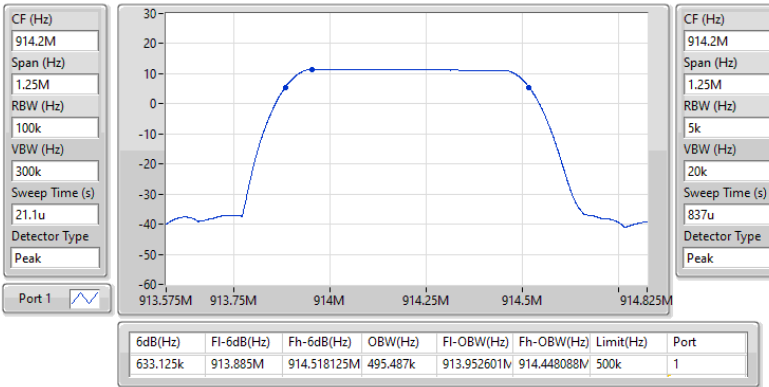
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
LoRa (500kHz)	-	-	-	-
903MHz	Pass	500k	630k	495.956k
909.4MHz	Pass	500k	630.625k	496.29k
914.2MHz	Pass	500k	633.125k	495.487k
LoRa (500kHz)				
923.3MHz	Pass	500k	626.25k	496.972k
927.5MHz	Pass	500k	633.75k	497.231k

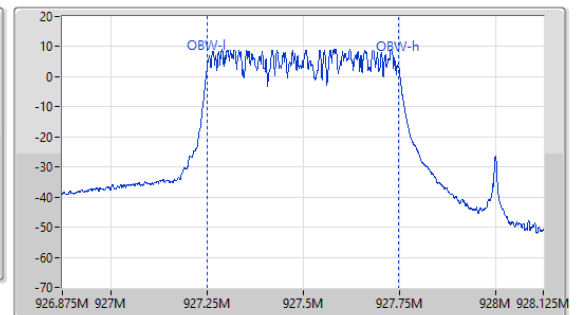
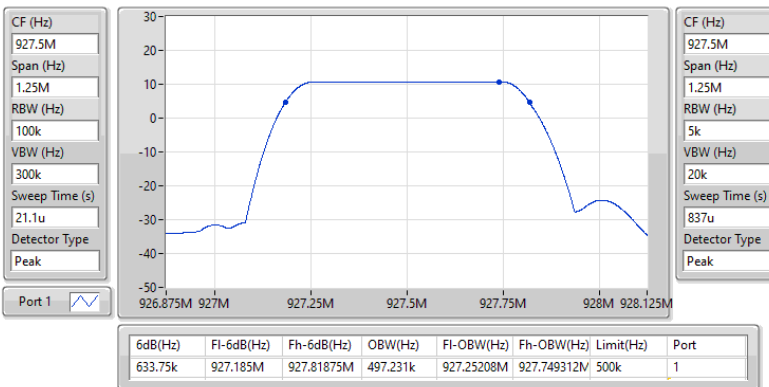
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

902-928MHz_LoRa (500kHz)
EBW-DTS
914.2MHz

23/04/2024


902-928MHz_LoRa (500kHz)
EBW-DTS
927.5MHz

23/04/2024





Summary

Mode	Total Power (dBm)	Total Power (W)
902-928MHz	-	-
LoRa (125kHz)	9.40	0.00871



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
LoRa (125kHz)	-	-	-	-
902.3MHz	Pass	5.00	9.38	30.00
908.7MHz	Pass	5.00	9.40	30.00
914.9MHz	Pass	5.00	8.22	30.00

DG = Directional Gain; Port X = Port X output power



Summary

Mode	Total Power (dBm)	Total Power (W)
902-928MHz	-	-
LoRa (125kHz)	9.27	0.00845



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
LoRa (125kHz)	-	-	-	-
902.3MHz	Pass	5.00	9.24	30.00
908.7MHz	Pass	5.00	9.27	30.00
914.9MHz	Pass	5.00	8.03	30.00

DG = Directional Gain; Port X = Port X output power



Summary

Mode	Total Power (dBm)	Total Power (W)
902-928MHz	-	-
LoRa (500kHz)	11.66	0.01466
902-928MHz	-	-
LoRa (500kHz)	11.85	0.01531



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
LoRa (500kHz)	-	-	-	-
903MHz	Pass	5.00	11.30	30.00
909.4MHz	Pass	5.00	11.39	30.00
914.2MHz	Pass	5.00	11.66	30.00
LoRa (500kHz)				
923.3MHz	Pass	5.00	11.85	30.00
927.5MHz	Pass	5.00	10.82	30.00

DG = Directional Gain; Port X = Port X output power



Summary

Mode	Total Power (dBm)	Total Power (W)
902-928MHz	-	-
LoRa (500kHz)	11.39	0.01377
902-928MHz	-	-
LoRa (500kHz)	11.66	0.01466



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
LoRa (500kHz)	-	-	-	-
903MHz	Pass	5.00	11.16	30.00
909.4MHz	Pass	5.00	11.31	30.00
914.2MHz	Pass	5.00	11.39	30.00
LoRa (500kHz)				
923.3MHz	Pass	5.00	11.66	30.00
927.5MHz	Pass	5.00	10.71	30.00

DG = Directional Gain; Port X = Port X output power



Summary

Mode	PD (dBm/RBW)
902-928MHz	-
LoRa (500kHz)	7.55
902-928MHz	-
LoRa (500kHz)	7.81

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
LoRa (500kHz)	-	-	-	-
903MHz	Pass	5.00	7.55	8.00
909.4MHz	Pass	5.00	7.25	8.00
914.2MHz	Pass	5.00	7.53	8.00
LoRa (500kHz)				
923.3MHz	Pass	5.00	7.81	8.00
927.5MHz	Pass	5.00	7.58	8.00

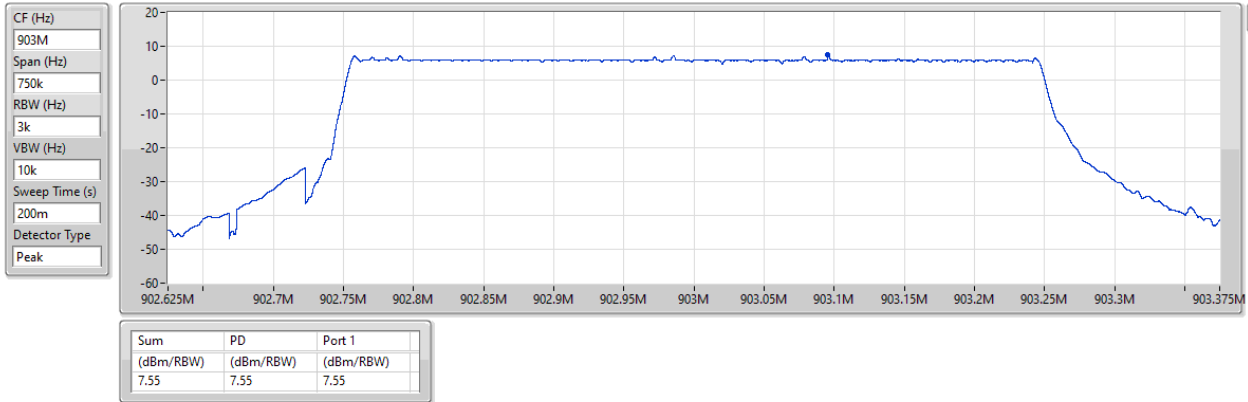
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

902-928MHz_LoRa (500kHz)

PSD

903MHz

23/04/2024

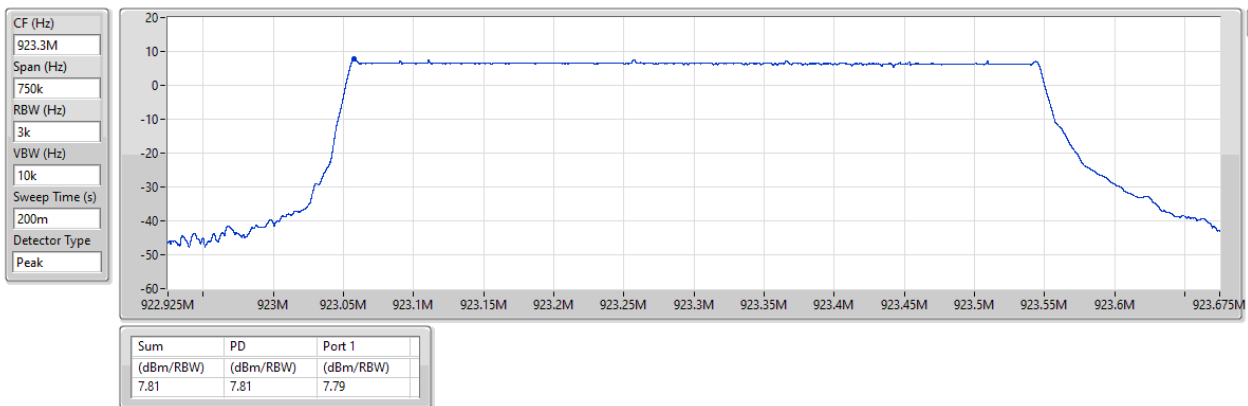


902-928MHz_LoRa (500kHz)

PSD

923.3MHz

23/04/2024





Summary

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



Result

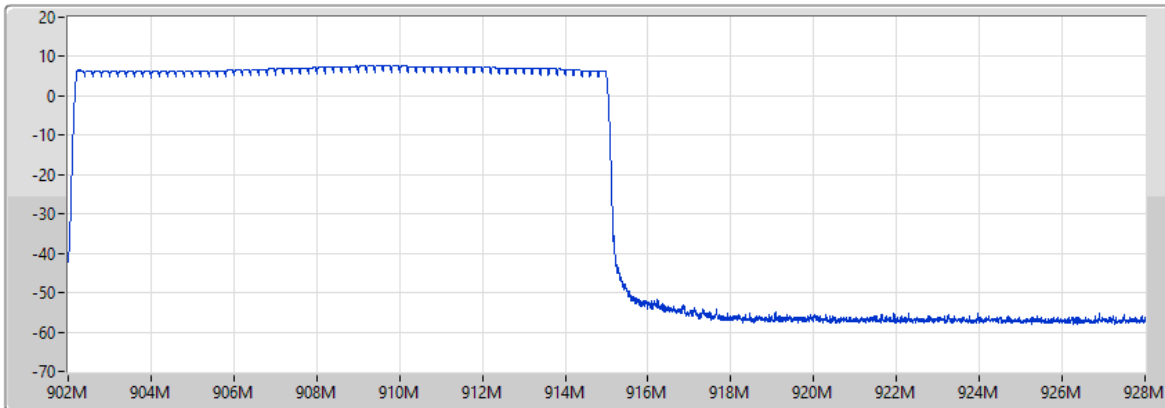
Mode	Result	Hopping No	Limit
LoRa (125kHz)	-	-	-
908.7MHz	Pass	64	15

902-928MHz_LoRa (125kHz)

Hopping-FS

908.7MHz

19/04/2024



Port 1 

Hopping No
33

Span (Hz)
26M

RBW (Hz)
100k

VBW (Hz)
300kHz

Sweep (s)
8.01ms

Detector
Peak

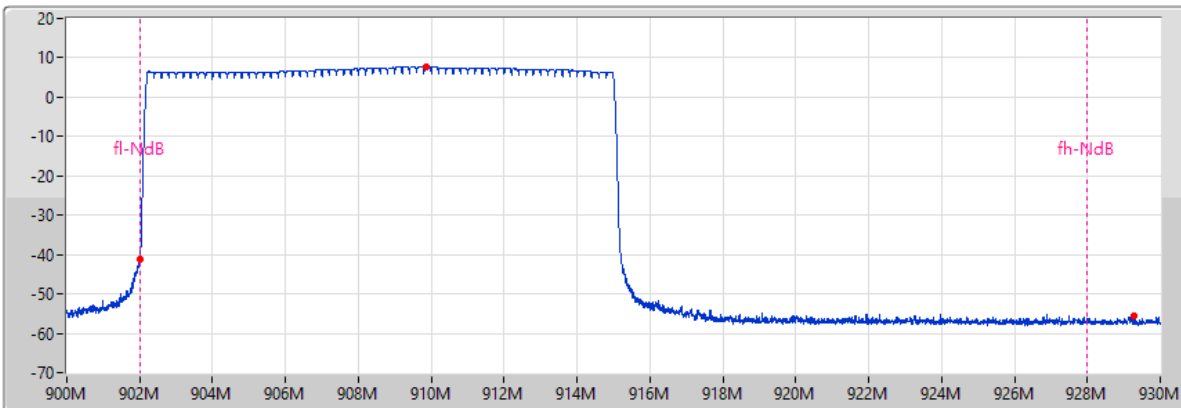
Hopping No	Limit
64	15

902-928MHz_LoRa (125kHz)

908.7MHz

Hopping Ch Bandedge (Non-restricted Band)

19/04/2024



Port 1 

Span (Hz)
30M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep (s)
8.01m

Detector
Peak

Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-12.37	909.8775M	7.63	901.995M	-41.29	929.29125M	-55.62



Summary

Mode	Dwell
902-928MHz	(s)
LoRa (125kHz)	395.09375m



Result

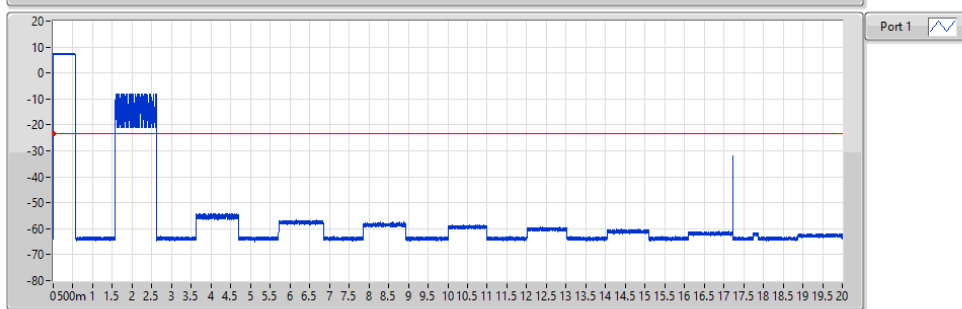
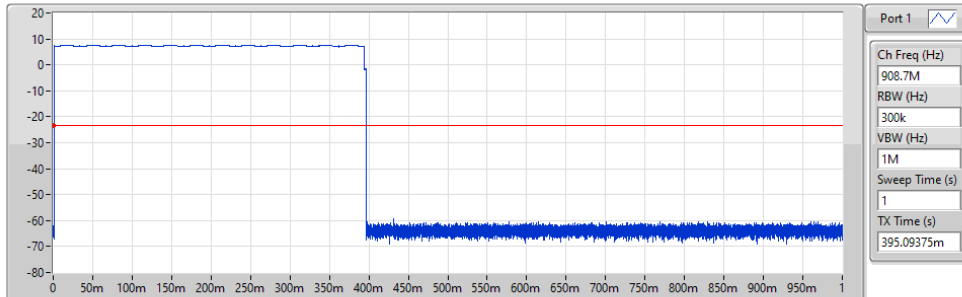
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
LoRa (125kHz)	-	-	-	-	-
908.7MHz	Pass	20	395.09375m	400m	395.09375m

902-928MHz_LoRa (125kHz)

908.7MHz

Dwell-FS

22/04/2024



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
20	395.09375m	400m	395.09375m



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	902.31M	9.23	-10.77	860.7M	-56.74	902M	-41.17	902M	-38.88	929.48M	-54.01	7.10223G	-46.48	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	902.31M	9.23	-10.77	860.7M	-56.74	902M	-41.17	902M	-38.88	929.48M	-54.01	7.10223G	-46.48	1
908.7MHz	Pass	908.76M	9.29	-10.71	729.07M	-56.87	899.72M	-54.12	902M	-56.83	944.84M	-53.72	8.79722G	-45.48	1
914.9MHz	Pass	914.9M	8.05	-11.95	40.22M	-56.44	884M	-53.51	902M	-56.22	928.6M	-54.45	9.94795G	-46.43	1

902-928MHz LoRa (125kHz)

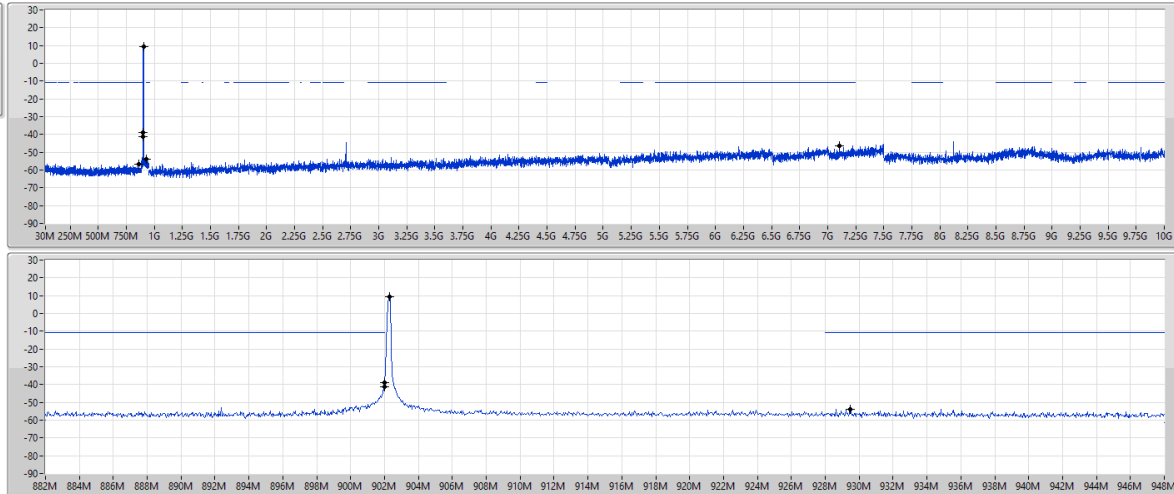
CSEndB-FS

902.3MHz

19/04/2024

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
902.31M	9.23	-10.77	860.7M	-56.74	902M	-41.17	902M	-38.88	929.48M	-54.01	7.10223G	-46.48	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	902.73M	11.07	-18.93	801.91M	-56.33	901.92M	-44.41	902M	-44.90	930.84M	-53.96	6.93929G	-46.37	1
902-928MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LoRa (500kHz)	Pass	927.69M	10.62	-19.38	300.94M	-56.05	882.72M	-53.77	928M	-20.29	928M	-21.24	9.27584G	-43.29	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)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
903MHz	Pass	902.73M	11.07	-18.93	801.91M	-56.33	901.92M	-44.41	902M	-44.90	930.84M	-53.96	6.93929G	-46.37	1
909.4MHz	Pass	909.59M	11.22	-18.78	44.06M	-54.39	896.68M	-53.00	902M	-54.94	929.2M	-53.90	8.76553G	-45.25	1
914.2MHz	Pass	913.96M	11.47	-18.53	755.48M	-56.13	889.64M	-53.59	902M	-54.98	931.72M	-53.44	8.85832G	-45.39	1
LoRa (500kHz)															
923.3MHz	Pass	923.11M	11.63	-18.37	41.08M	-55.80	901.92M	-53.49	902M	-54.30	928.12M	-52.27	8.7893G	-45.09	1
927.5MHz	Pass	927.69M	10.62	-19.38	300.94M	-56.05	882.72M	-53.77	928M	-20.29	928M	-21.24	9.27584G	-43.29	1

902-928MHz LoRa (500kHz)

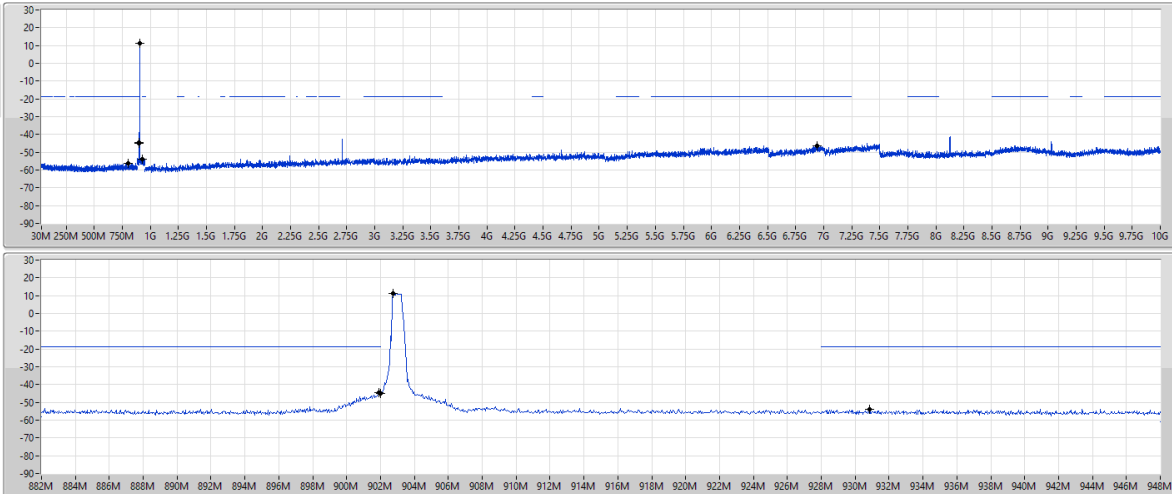
CSEndB-DTS

903MHz

23/04/2024

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
902.73M	11.07	-18.93	801.91M	-56.33	901.92M	-44.41	902M	-44.90	930.84M	-53.96	6.93929G	-46.37	1

902-928MHz LoRa (500kHz)

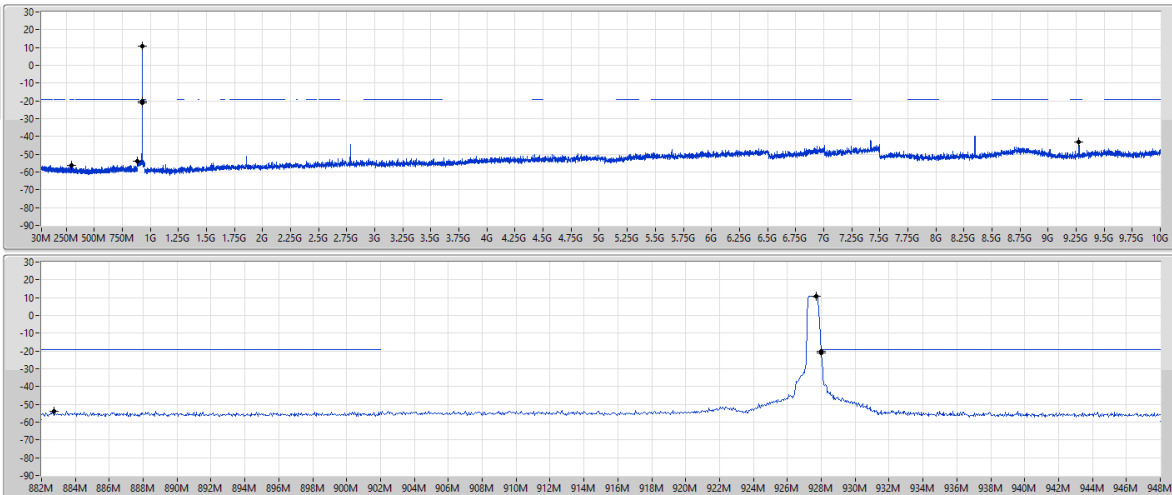
CSEndB-DTS

927.5MHz

23/04/2024

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
927.69M	10.62	-19.38	300.94M	-56.05	882.72M	-53.77	928M	-20.29	928M	-21.24	9.27584G	-43.29	1



Summary

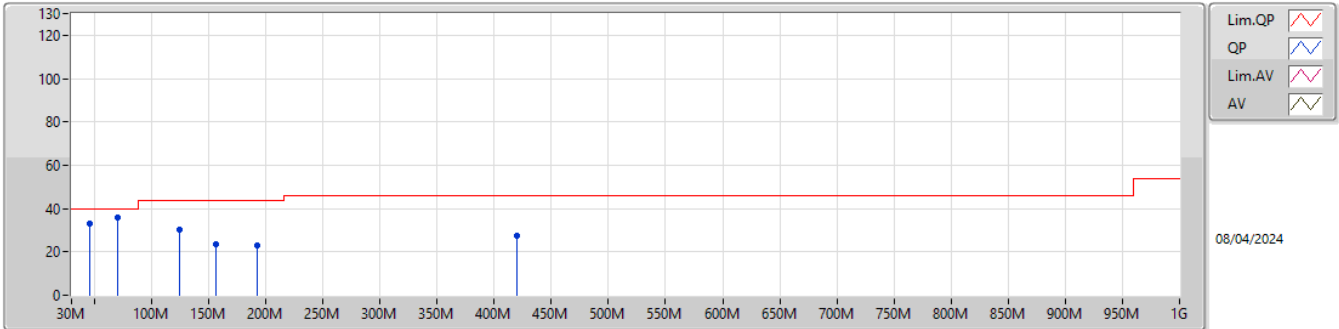
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
902-928MHz	-	-	-	-	-	-	-	-	-	-
LoRa (500kHz)	Pass	PK	72.68M	36.50	40.00	-3.50	3	Horizontal	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
LoRa (500kHz)	-	-	-	-	-	-	-	-	-	-
923.3MHz	Pass	PK	70.74M	35.93	40.00	-4.07	3	Vertical	0	1.00
923.3MHz	Pass	PK	125.06M	30.19	43.50	-13.31	3	Vertical	0	1.00
923.3MHz	Pass	PK	156.1M	23.54	43.50	-19.96	3	Vertical	0	1.00
923.3MHz	Pass	PK	192.96M	22.90	43.50	-20.60	3	Vertical	0	1.00
923.3MHz	Pass	PK	419.94M	27.64	46.00	-18.36	3	Vertical	0	1.00
923.3MHz	Pass	QP	45.52M	33.20	40.00	-6.80	3	Vertical	150	1.00
923.3MHz	Pass	PK	49.4M	35.09	40.00	-4.91	3	Horizontal	360	1.00
923.3MHz	Pass	PK	72.68M	36.50	40.00	-3.50	3	Horizontal	360	1.00
923.3MHz	Pass	PK	125.06M	38.49	43.50	-5.01	3	Horizontal	360	1.00
923.3MHz	Pass	PK	156.1M	28.49	43.50	-15.01	3	Horizontal	360	1.00
923.3MHz	Pass	PK	200.72M	28.59	43.50	-14.91	3	Horizontal	360	1.00
923.3MHz	Pass	PK	235.64M	28.32	46.00	-17.68	3	Horizontal	360	1.00

902-928MHz_LoRa (500kHz)

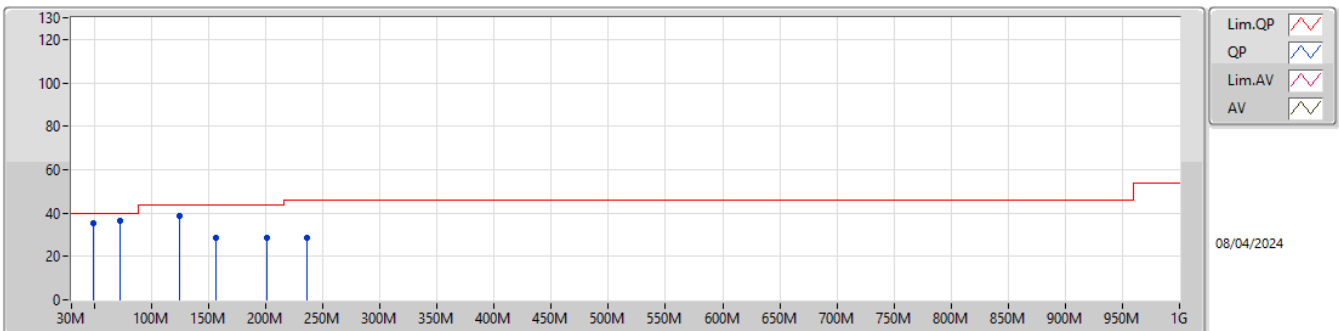
923.3MHz_TX



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	70.74M	35.93	40.00	-4.07	-14.69	3	Vertical	0	1.00	50.62	11.50	1.35	27.54
PK	125.06M	30.19	43.50	-13.31	-8.06	3	Vertical	0	1.00	38.25	17.43	1.85	27.34
PK	156.1M	23.54	43.50	-19.96	-10.05	3	Vertical	0	1.00	33.59	15.13	2.06	27.24
PK	192.96M	22.90	43.50	-20.60	-10.53	3	Vertical	0	1.00	33.43	14.28	2.31	27.12
PK	419.94M	27.64	46.00	-18.36	-2.25	3	Vertical	0	1.00	29.89	21.84	3.47	27.56
QP	45.52M	33.20	40.00	-6.80	-11.20	3	Vertical	150	1.00	44.40	15.26	1.10	27.56

902-928MHz_LoRa (500kHz)

923.3MHz_TX



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	49.4M	35.09	40.00	-4.91	-12.97	3	Horizontal	360	1.00	48.06	13.47	1.13	27.57
PK	72.68M	36.50	40.00	-3.50	-14.66	3	Horizontal	360	1.00	51.16	11.49	1.37	27.52
PK	125.06M	38.49	43.50	-5.01	-8.06	3	Horizontal	360	1.00	46.55	17.43	1.85	27.34
PK	156.1M	28.49	43.50	-15.01	-10.05	3	Horizontal	360	1.00	38.54	15.13	2.06	27.24
PK	200.72M	28.59	43.50	-14.91	-10.31	3	Horizontal	360	1.00	38.90	14.43	2.36	27.10
PK	235.64M	28.32	46.00	-17.68	-8.58	3	Horizontal	360	1.00	36.90	15.93	2.55	27.06



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
902-928MHz	-	-	-	-	-	-	-	-	-	-	-
LoRa (125kHz)	Pass	AV	2.7447G	53.92	54.00	-0.08	3	Horizontal	221	2.45	-
LoRa (500kHz)	Pass	AV	2.78264G	53.51	54.00	-0.49	3	Vertical	158	1.96	-
LoRa (500kHz)	Pass	AV	2.72821G	53.89	54.00	-0.11	3	Vertical	144	2.30	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
LoRa (125kHz)	-	-	-	-	-	-	-	-	-	-	-
902.3MHz	Pass	AV	2.70698G	53.84	54.00	-0.16	3	Vertical	146	2.55	-
902.3MHz	Pass	AV	3.60925G	47.96	54.00	-6.04	3	Vertical	209	1.55	-
902.3MHz	Pass	AV	4.51162G	48.71	54.00	-5.29	3	Vertical	143	1.49	-
902.3MHz	Pass	AV	5.41387G	45.10	54.00	-8.90	3	Vertical	176	1.40	-
902.3MHz	Pass	AV	8.1208G	50.15	54.00	-3.85	3	Vertical	153	2.14	-
902.3MHz	Pass	AV	9.02312G	44.37	54.00	-9.63	3	Vertical	184	2.45	-
902.3MHz	Pass	PK	2.70676G	55.40	74.00	-18.60	3	Vertical	146	2.55	-
902.3MHz	Pass	PK	3.60907G	51.36	74.00	-22.64	3	Vertical	209	1.55	-
902.3MHz	Pass	PK	4.51132G	52.58	74.00	-21.42	3	Vertical	143	1.49	-
902.3MHz	Pass	PK	5.41384G	51.40	74.00	-22.60	3	Vertical	176	1.40	-
902.3MHz	Pass	PK	8.12073G	56.48	74.00	-17.52	3	Vertical	153	2.14	-
902.3MHz	Pass	PK	9.02338G	54.86	74.00	-19.14	3	Vertical	184	2.45	-
902.3MHz	Pass	AV	2.70696G	52.58	54.00	-1.42	3	Horizontal	295	1.02	-
902.3MHz	Pass	AV	3.60932G	46.67	54.00	-7.33	3	Horizontal	175	2.16	-
902.3MHz	Pass	AV	4.51159G	41.86	54.00	-12.14	3	Horizontal	198	1.74	-
902.3MHz	Pass	AV	5.41388G	38.01	54.00	-15.99	3	Horizontal	31	1.14	-
902.3MHz	Pass	AV	8.12097G	52.20	54.00	-1.80	3	Horizontal	339	1.00	-
902.3MHz	Pass	AV	9.02312G	43.77	54.00	-10.23	3	Horizontal	342	1.59	-
902.3MHz	Pass	PK	2.7067G	54.24	74.00	-19.76	3	Horizontal	295	1.02	-
902.3MHz	Pass	PK	3.60931G	50.26	74.00	-23.74	3	Horizontal	175	2.16	-
902.3MHz	Pass	PK	4.51186G	48.80	74.00	-25.20	3	Horizontal	198	1.74	-
902.3MHz	Pass	PK	5.41372G	47.96	74.00	-26.04	3	Horizontal	31	1.14	-
902.3MHz	Pass	PK	8.12122G	57.78	74.00	-16.22	3	Horizontal	339	1.00	-
902.3MHz	Pass	PK	9.02315G	55.72	74.00	-18.28	3	Horizontal	342	1.59	-
908.7MHz	Pass	AV	2.72617G	51.97	54.00	-2.03	3	Vertical	143	2.32	-
908.7MHz	Pass	AV	3.63485G	48.91	54.00	-5.09	3	Vertical	202	1.50	-
908.7MHz	Pass	AV	4.54356G	48.51	54.00	-5.49	3	Vertical	143	1.37	-
908.7MHz	Pass	AV	5.45225G	44.84	54.00	-9.16	3	Vertical	171	1.50	-
908.7MHz	Pass	AV	7.26967G	47.49	54.00	-6.51	3	Vertical	149	2.39	-
908.7MHz	Pass	AV	8.17834G	50.51	54.00	-3.49	3	Vertical	201	2.92	-
908.7MHz	Pass	AV	9.08705G	46.54	54.00	-7.46	3	Vertical	187	1.50	-
908.7MHz	Pass	PK	2.7261G	54.02	74.00	-19.98	3	Vertical	143	2.32	-
908.7MHz	Pass	PK	3.63488G	51.62	74.00	-22.38	3	Vertical	202	1.50	-
908.7MHz	Pass	PK	4.54332G	52.73	74.00	-21.27	3	Vertical	143	1.37	-
908.7MHz	Pass	PK	5.45223G	51.06	74.00	-22.94	3	Vertical	171	1.50	-
908.7MHz	Pass	PK	7.26957G	55.47	74.00	-18.53	3	Vertical	149	2.39	-
908.7MHz	Pass	PK	8.17889G	56.48	74.00	-17.52	3	Vertical	201	2.92	-
908.7MHz	Pass	PK	9.08729G	56.36	74.00	-17.64	3	Vertical	187	1.50	-
908.7MHz	Pass	AV	2.72611G	53.46	54.00	-0.54	3	Horizontal	222	2.27	-
908.7MHz	Pass	AV	3.63486G	47.25	54.00	-6.75	3	Horizontal	184	1.78	-
908.7MHz	Pass	AV	4.54358G	44.69	54.00	-9.31	3	Horizontal	195	2.09	-
908.7MHz	Pass	AV	5.45222G	38.64	54.00	-15.36	3	Horizontal	30	1.05	-
908.7MHz	Pass	AV	7.26951G	45.23	54.00	-8.77	3	Horizontal	330	1.00	-
908.7MHz	Pass	AV	8.17835G	48.36	54.00	-5.64	3	Horizontal	332	1.39	-
908.7MHz	Pass	AV	9.08676G	44.60	54.00	-9.40	3	Horizontal	19	1.45	-
908.7MHz	Pass	PK	2.7262G	55.20	74.00	-18.80	3	Horizontal	222	2.27	-
908.7MHz	Pass	PK	3.63491G	50.73	74.00	-23.27	3	Horizontal	184	1.78	-
908.7MHz	Pass	PK	4.54333G	50.57	74.00	-23.43	3	Horizontal	195	2.09	-
908.7MHz	Pass	PK	5.45227G	48.18	74.00	-25.82	3	Horizontal	30	1.05	-
908.7MHz	Pass	PK	7.27024G	54.12	74.00	-19.88	3	Horizontal	330	1.00	-
908.7MHz	Pass	PK	8.17837G	55.72	74.00	-18.28	3	Horizontal	332	1.39	-
908.7MHz	Pass	PK	9.08783G	55.44	74.00	-18.56	3	Horizontal	19	1.45	-
914.9MHz	Pass	AV	2.74476G	51.65	54.00	-2.35	3	Vertical	131	2.68	-
914.9MHz	Pass	AV	3.65971G	49.34	54.00	-4.66	3	Vertical	208	1.47	-
914.9MHz	Pass	AV	4.57457G	48.58	54.00	-5.42	3	Vertical	149	1.37	-
914.9MHz	Pass	AV	7.31944G	46.47	54.00	-7.53	3	Vertical	278	2.25	-
914.9MHz	Pass	AV	8.23402G	48.71	54.00	-5.29	3	Vertical	187	1.74	-
914.9MHz	Pass	AV	9.1493G	45.99	54.00	-8.01	3	Vertical	184	1.69	-
914.9MHz	Pass	PK	2.74455G	53.56	74.00	-20.44	3	Vertical	131	2.68	-
914.9MHz	Pass	PK	3.65945G	52.19	74.00	-21.81	3	Vertical	208	1.47	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
914.9MHz	Pass	PK	4.57444G	52.82	74.00	-21.18	3	Vertical	149	1.37	-
914.9MHz	Pass	PK	7.31956G	54.80	74.00	-19.20	3	Vertical	278	2.25	-
914.9MHz	Pass	PK	8.23406G	55.50	74.00	-18.50	3	Vertical	187	1.74	-
914.9MHz	Pass	PK	9.14821G	56.31	74.00	-17.69	3	Vertical	184	1.69	-
914.9MHz	Pass	AV	2.7447G	53.92	54.00	-0.08	3	Horizontal	221	2.45	-
914.9MHz	Pass	AV	3.65971G	47.45	54.00	-6.55	3	Horizontal	174	1.92	-
914.9MHz	Pass	AV	4.57458G	41.48	54.00	-12.52	3	Horizontal	132	1.14	-
914.9MHz	Pass	AV	7.31934G	45.56	54.00	-8.44	3	Horizontal	345	1.66	-
914.9MHz	Pass	AV	8.23431G	46.97	54.00	-7.03	3	Horizontal	332	1.20	-
914.9MHz	Pass	AV	9.14927G	45.52	54.00	-8.48	3	Horizontal	18	1.50	-
914.9MHz	Pass	PK	2.74475G	55.47	74.00	-18.53	3	Horizontal	221	2.45	-
914.9MHz	Pass	PK	3.65964G	51.11	74.00	-22.89	3	Horizontal	174	1.92	-
914.9MHz	Pass	PK	4.5744G	49.02	74.00	-24.98	3	Horizontal	132	1.14	-
914.9MHz	Pass	PK	7.31896G	54.25	74.00	-19.75	3	Horizontal	345	1.66	-
914.9MHz	Pass	PK	8.23389G	55.12	74.00	-18.88	3	Horizontal	332	1.20	-
914.9MHz	Pass	PK	9.14846G	55.92	74.00	-18.08	3	Horizontal	18	1.50	-
LoRa (500kHz)	-	-	-	-	-	-	-	-	-	-	-
903MHz	Pass	AV	2.70899G	53.80	54.00	-0.20	3	Vertical	145	2.53	-
903MHz	Pass	AV	3.61205G	43.66	54.00	-10.34	3	Vertical	187	1.11	-
903MHz	Pass	AV	4.51498G	41.92	54.00	-12.08	3	Vertical	149	1.40	-
903MHz	Pass	AV	5.4205G	33.46	54.00	-20.54	3	Vertical	280	2.57	-
903MHz	Pass	AV	8.12848G	53.70	54.00	-0.30	3	Vertical	230	2.14	-
903MHz	Pass	AV	9.03167G	45.07	54.00	-8.93	3	Vertical	188	2.36	-
903MHz	Pass	PK	2.70857G	57.52	74.00	-16.48	3	Vertical	145	2.53	-
903MHz	Pass	PK	3.61218G	50.90	74.00	-23.10	3	Vertical	187	1.11	-
903MHz	Pass	PK	4.51606G	51.25	74.00	-22.75	3	Vertical	149	1.40	-
903MHz	Pass	PK	5.41953G	46.82	74.00	-27.18	3	Vertical	280	2.57	-
903MHz	Pass	PK	8.12735G	64.04	74.00	-9.96	3	Vertical	230	2.14	-
903MHz	Pass	PK	9.03232G	57.42	74.00	-16.58	3	Vertical	188	2.36	-
903MHz	Pass	AV	2.70904G	52.33	54.00	-1.67	3	Horizontal	296	1.01	-
903MHz	Pass	AV	3.61195G	46.42	54.00	-7.58	3	Horizontal	176	2.15	-
903MHz	Pass	AV	4.51481G	37.02	54.00	-16.98	3	Horizontal	315	2.42	-
903MHz	Pass	AV	5.41875G	35.07	54.00	-18.93	3	Horizontal	204	2.20	-
903MHz	Pass	AV	8.12851G	52.77	54.00	-1.23	3	Horizontal	339	1.00	-
903MHz	Pass	AV	9.03133G	45.31	54.00	-8.69	3	Horizontal	18	1.46	-
903MHz	Pass	PK	2.70838G	56.26	74.00	-17.74	3	Horizontal	296	1.01	-
903MHz	Pass	PK	3.6111G	52.96	74.00	-21.04	3	Horizontal	176	2.15	-
903MHz	Pass	PK	4.51607G	48.32	74.00	-25.68	3	Horizontal	315	2.42	-
903MHz	Pass	PK	5.41836G	47.72	74.00	-26.28	3	Horizontal	204	2.20	-
903MHz	Pass	PK	8.12757G	63.14	74.00	-10.86	3	Horizontal	339	1.00	-
903MHz	Pass	PK	9.03009G	57.75	74.00	-16.25	3	Horizontal	18	1.46	-
909.4MHz	Pass	AV	2.72821G	53.89	54.00	-0.11	3	Vertical	144	2.30	-
909.4MHz	Pass	AV	3.63764G	48.61	54.00	-5.39	3	Vertical	208	1.50	-
909.4MHz	Pass	AV	4.54764G	46.68	54.00	-7.32	3	Vertical	149	1.49	-
909.4MHz	Pass	AV	5.45653G	44.45	54.00	-9.55	3	Vertical	170	1.41	-
909.4MHz	Pass	AV	7.27648G	49.36	54.00	-4.64	3	Vertical	151	2.53	-
909.4MHz	Pass	AV	8.18595G	53.88	54.00	-0.12	3	Vertical	230	2.11	-
909.4MHz	Pass	AV	9.09538G	47.94	54.00	-6.06	3	Vertical	199	2.70	-
909.4MHz	Pass	PK	2.72868G	57.75	74.00	-16.25	3	Vertical	144	2.30	-
909.4MHz	Pass	PK	3.63821G	54.78	74.00	-19.22	3	Vertical	208	1.50	-
909.4MHz	Pass	PK	4.54661G	54.88	74.00	-19.12	3	Vertical	149	1.49	-
909.4MHz	Pass	PK	5.45535G	54.01	74.00	-19.99	3	Vertical	170	1.41	-
909.4MHz	Pass	PK	7.27529G	59.62	74.00	-14.38	3	Vertical	151	2.53	-
909.4MHz	Pass	PK	8.18595G	64.56	74.00	-9.44	3	Vertical	230	2.11	-
909.4MHz	Pass	PK	9.09265G	60.00	74.00	-14.00	3	Vertical	199	2.70	-
909.4MHz	Pass	AV	2.7281G	53.62	54.00	-0.38	3	Horizontal	220	2.27	-
909.4MHz	Pass	AV	3.63748G	46.45	54.00	-7.55	3	Horizontal	185	1.79	-
909.4MHz	Pass	AV	4.54702G	41.43	54.00	-12.57	3	Horizontal	314	3.00	-
909.4MHz	Pass	AV	5.45725G	37.58	54.00	-16.42	3	Horizontal	325	2.29	-
909.4MHz	Pass	AV	7.27642G	47.94	54.00	-6.06	3	Horizontal	338	1.00	-
909.4MHz	Pass	AV	8.18613G	51.22	54.00	-2.78	3	Horizontal	332	1.50	-
909.4MHz	Pass	AV	9.09549G	47.72	54.00	-6.28	3	Horizontal	19	1.35	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
909.4MHz	Pass	PK	2.72858G	58.33	74.00	-15.67	3	Horizontal	220	2.27	-
909.4MHz	Pass	PK	3.63803G	53.07	74.00	-20.93	3	Horizontal	185	1.79	-
909.4MHz	Pass	PK	4.54695G	51.06	74.00	-22.94	3	Horizontal	314	3.00	-
909.4MHz	Pass	PK	5.45701G	49.41	74.00	-24.59	3	Horizontal	325	2.29	-
909.4MHz	Pass	PK	7.27593G	58.55	74.00	-15.45	3	Horizontal	338	1.00	-
909.4MHz	Pass	PK	8.18301G	61.67	74.00	-12.33	3	Horizontal	332	1.50	-
909.4MHz	Pass	PK	9.09291G	60.07	74.00	-13.93	3	Horizontal	19	1.35	-
914.2MHz	Pass	AV	2.74276G	50.98	54.00	-3.02	3	Vertical	157	1.90	-
914.2MHz	Pass	AV	3.65694G	45.96	54.00	-8.04	3	Vertical	209	1.49	-
914.2MHz	Pass	AV	4.57095G	43.49	54.00	-10.51	3	Vertical	149	1.25	-
914.2MHz	Pass	AV	7.31362G	43.83	54.00	-10.17	3	Vertical	225	1.03	-
914.2MHz	Pass	AV	8.22924G	48.11	54.00	-5.89	3	Vertical	201	3.00	-
914.2MHz	Pass	AV	9.14017G	45.14	54.00	-8.86	3	Vertical	184	1.75	-
914.2MHz	Pass	PK	2.74197G	55.18	74.00	-18.82	3	Vertical	157	1.90	-
914.2MHz	Pass	PK	3.65656G	52.59	74.00	-21.41	3	Vertical	209	1.49	-
914.2MHz	Pass	PK	4.5702G	52.39	74.00	-21.61	3	Vertical	149	1.25	-
914.2MHz	Pass	PK	7.31299G	55.52	74.00	-18.48	3	Vertical	225	1.03	-
914.2MHz	Pass	PK	8.22598G	59.48	74.00	-14.52	3	Vertical	201	3.00	-
914.2MHz	Pass	PK	9.14156G	58.11	74.00	-15.89	3	Vertical	184	1.75	-
914.2MHz	Pass	AV	2.74253G	53.11	54.00	-0.89	3	Horizontal	221	2.42	-
914.2MHz	Pass	AV	3.65684G	44.55	54.00	-9.45	3	Horizontal	175	1.92	-
914.2MHz	Pass	AV	4.57174G	37.62	54.00	-16.38	3	Horizontal	132	1.14	-
914.2MHz	Pass	AV	7.31356G	43.55	54.00	-10.45	3	Horizontal	330	1.46	-
914.2MHz	Pass	AV	8.22659G	44.98	54.00	-9.02	3	Horizontal	333	1.50	-
914.2MHz	Pass	AV	9.14368G	44.46	54.00	-9.54	3	Horizontal	21	1.50	-
914.2MHz	Pass	PK	2.74188G	57.10	74.00	-16.90	3	Horizontal	221	2.42	-
914.2MHz	Pass	PK	3.65669G	51.42	74.00	-22.58	3	Horizontal	175	1.92	-
914.2MHz	Pass	PK	4.57098G	48.95	74.00	-25.05	3	Horizontal	132	1.14	-
914.2MHz	Pass	PK	7.3127G	55.23	74.00	-18.77	3	Horizontal	330	1.46	-
914.2MHz	Pass	PK	8.22687G	57.34	74.00	-16.66	3	Horizontal	333	1.50	-
914.2MHz	Pass	PK	9.14073G	57.29	74.00	-16.71	3	Horizontal	21	1.50	-
LoRa (500kHz)	-	-	-	-	-	-	-	-	-	-	-
923.3MHz	Pass	AV	2.76987G	52.80	54.00	-1.20	3	Vertical	159	2.20	-
923.3MHz	Pass	AV	3.69315G	50.36	54.00	-3.64	3	Vertical	208	1.34	-
923.3MHz	Pass	AV	4.61567G	35.63	54.00	-18.37	3	Vertical	138	1.34	-
923.3MHz	Pass	AV	7.38762G	44.64	54.00	-9.36	3	Vertical	222	2.20	-
923.3MHz	Pass	AV	8.31108G	49.24	54.00	-4.76	3	Vertical	223	2.26	-
923.3MHz	Pass	PK	2.77034G	56.92	74.00	-17.08	3	Vertical	159	2.20	-
923.3MHz	Pass	PK	3.69383G	56.25	74.00	-17.75	3	Vertical	208	1.34	-
923.3MHz	Pass	PK	4.61624G	49.25	74.00	-24.75	3	Vertical	138	1.34	-
923.3MHz	Pass	PK	7.38799G	56.32	74.00	-17.68	3	Vertical	222	2.20	-
923.3MHz	Pass	PK	8.30992G	61.04	74.00	-12.96	3	Vertical	223	2.26	-
923.3MHz	Pass	AV	2.76996G	49.56	54.00	-4.44	3	Horizontal	287	2.95	-
923.3MHz	Pass	AV	3.69334G	46.84	54.00	-7.16	3	Horizontal	168	1.50	-
923.3MHz	Pass	AV	4.61545G	32.93	54.00	-21.07	3	Horizontal	290	2.73	-
923.3MHz	Pass	AV	7.38648G	43.95	54.00	-10.05	3	Horizontal	332	1.50	-
923.3MHz	Pass	AV	8.3114G	47.95	54.00	-6.05	3	Horizontal	334	1.50	-
923.3MHz	Pass	PK	2.77051G	54.24	74.00	-19.76	3	Horizontal	287	2.95	-
923.3MHz	Pass	PK	3.69391G	53.22	74.00	-20.78	3	Horizontal	168	1.50	-
923.3MHz	Pass	PK	4.61748G	46.41	74.00	-27.59	3	Horizontal	290	2.73	-
923.3MHz	Pass	PK	7.38837G	55.82	74.00	-18.18	3	Horizontal	332	1.50	-
923.3MHz	Pass	PK	8.30933G	59.41	74.00	-14.59	3	Horizontal	334	1.50	-
927.5MHz	Pass	AV	2.78264G	53.51	54.00	-0.49	3	Vertical	158	1.96	-
927.5MHz	Pass	AV	3.70995G	51.65	54.00	-2.35	3	Vertical	207	1.50	-
927.5MHz	Pass	AV	4.63683G	36.50	54.00	-17.50	3	Vertical	136	1.48	-
927.5MHz	Pass	AV	7.42005G	48.02	54.00	-5.98	3	Vertical	159	2.70	-
927.5MHz	Pass	AV	8.34622G	53.12	54.00	-0.88	3	Vertical	215	2.93	-
927.5MHz	Pass	PK	2.78224G	57.49	74.00	-16.51	3	Vertical	158	1.96	-
927.5MHz	Pass	PK	3.70906G	57.35	74.00	-16.65	3	Vertical	207	1.50	-
927.5MHz	Pass	PK	4.63738G	49.61	74.00	-24.39	3	Vertical	136	1.48	-
927.5MHz	Pass	PK	7.41833G	58.90	74.00	-15.10	3	Vertical	159	2.70	-
927.5MHz	Pass	PK	8.34663G	64.19	74.00	-9.81	3	Vertical	215	2.93	-



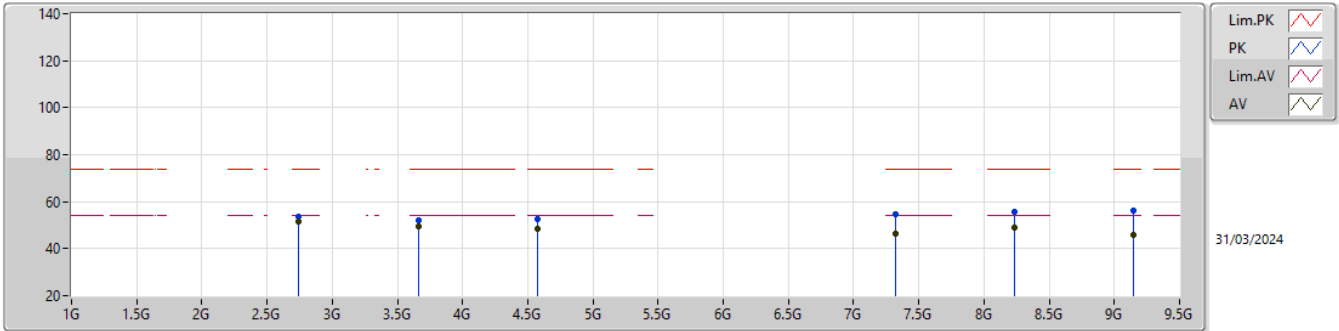
RSE TX above 1GHz

Appendix H.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
927.5MHz	Pass	AV	2.78243G	52.27	54.00	-1.73	3	Horizontal	284	1.20	-
927.5MHz	Pass	AV	3.71002G	47.66	54.00	-6.34	3	Horizontal	185	1.95	-
927.5MHz	Pass	AV	4.63704G	33.93	54.00	-20.07	3	Horizontal	276	1.01	-
927.5MHz	Pass	AV	7.42119G	47.47	54.00	-6.53	3	Horizontal	332	1.02	-
927.5MHz	Pass	AV	8.34878G	52.54	54.00	-1.46	3	Horizontal	342	1.09	-
927.5MHz	Pass	PK	2.78201G	56.22	74.00	-17.78	3	Horizontal	284	1.20	-
927.5MHz	Pass	PK	3.70937G	54.13	74.00	-19.87	3	Horizontal	185	1.95	-
927.5MHz	Pass	PK	4.63656G	46.57	74.00	-27.43	3	Horizontal	276	1.01	-
927.5MHz	Pass	PK	7.42008G	58.76	74.00	-15.24	3	Horizontal	332	1.02	-
927.5MHz	Pass	PK	8.34658G	63.54	74.00	-10.46	3	Horizontal	342	1.09	-

902-928MHz_LoRa (125kHz)

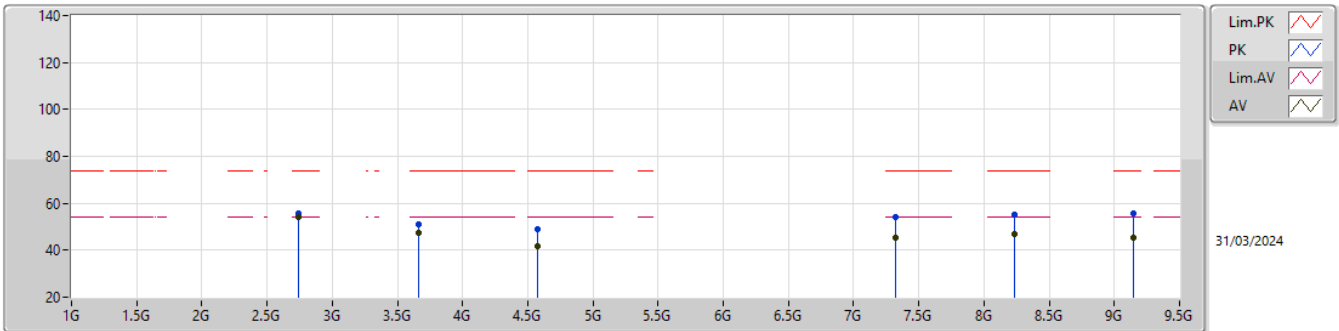
914.9MHz_TX



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)
AV	2.74476G	51.65	54.00	-2.35	0.16	3	Vertical	131	2.68	51.49	28.15	5.85	33.84
AV	3.65971G	49.34	54.00	-4.66	2.37	3	Vertical	208	1.47	46.97	29.56	6.87	34.06
AV	4.57457G	48.58	54.00	-5.42	5.12	3	Vertical	149	1.37	43.46	31.50	7.66	34.04
AV	7.31944G	46.47	54.00	-7.53	11.86	3	Vertical	278	2.25	34.61	36.66	9.54	34.34
AV	8.23402G	48.71	54.00	-5.29	12.47	3	Vertical	187	1.74	36.24	36.87	10.16	34.56
AV	9.1493G	45.99	54.00	-8.01	14.19	3	Vertical	184	1.69	31.80	38.00	10.81	34.62
PK	2.74455G	53.56	74.00	-20.44	0.16	3	Vertical	131	2.68	53.40	28.15	5.85	33.84
PK	3.65945G	52.19	74.00	-21.81	2.37	3	Vertical	208	1.47	49.82	29.56	6.87	34.06
PK	4.57444G	52.82	74.00	-21.18	5.12	3	Vertical	149	1.37	47.70	31.50	7.66	34.04
PK	7.31956G	54.80	74.00	-19.20	11.86	3	Vertical	278	2.25	42.94	36.66	9.54	34.34
PK	8.23406G	55.50	74.00	-18.50	12.47	3	Vertical	187	1.74	43.03	36.87	10.16	34.56
PK	9.14821G	56.31	74.00	-17.69	14.19	3	Vertical	184	1.69	42.12	38.00	10.81	34.62

902-928MHz_LoRa (125kHz)

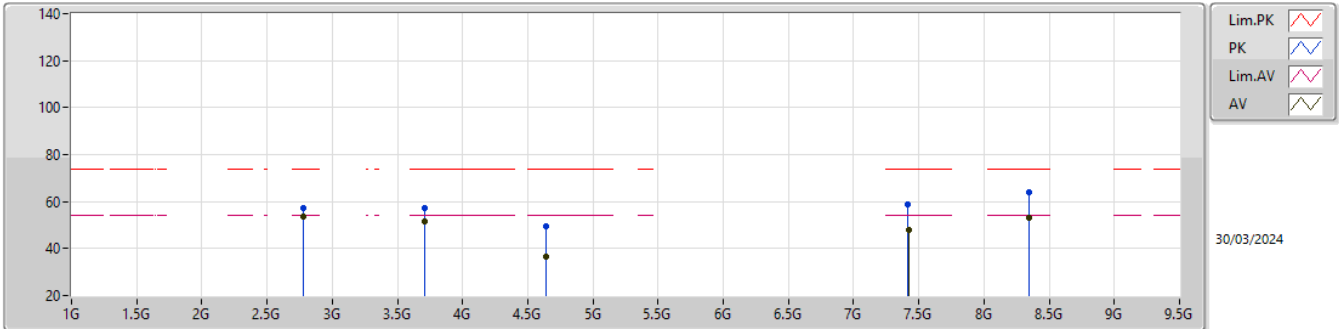
914.9MHz_TX



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)
AV	2.7447G	53.92	54.00	-0.08	0.16	3	Horizontal	221	2.45	53.76	28.15	5.85	33.84
AV	3.65971G	47.45	54.00	-6.55	2.37	3	Horizontal	174	1.92	45.08	29.56	6.87	34.06
AV	4.57458G	41.48	54.00	-12.52	5.12	3	Horizontal	132	1.14	36.36	31.50	7.66	34.04
AV	7.31934G	45.56	54.00	-8.44	11.86	3	Horizontal	345	1.66	33.70	36.66	9.54	34.34
AV	8.23431G	46.97	54.00	-7.03	12.47	3	Horizontal	332	1.20	34.50	36.87	10.16	34.56
AV	9.14927G	45.52	54.00	-8.48	14.19	3	Horizontal	18	1.50	31.33	38.00	10.81	34.62
PK	2.74475G	55.47	74.00	-18.53	0.16	3	Horizontal	221	2.45	55.31	28.15	5.85	33.84
PK	3.65964G	51.11	74.00	-22.89	2.37	3	Horizontal	174	1.92	48.74	29.56	6.87	34.06
PK	4.5744G	49.02	74.00	-24.98	5.12	3	Horizontal	132	1.14	43.90	31.50	7.66	34.04
PK	7.31896G	54.25	74.00	-19.75	11.86	3	Horizontal	345	1.66	42.39	36.66	9.54	34.34
PK	8.23389G	55.12	74.00	-18.88	12.47	3	Horizontal	332	1.20	42.65	36.87	10.16	34.56
PK	9.14846G	55.92	74.00	-18.08	14.19	3	Horizontal	18	1.50	41.73	38.00	10.81	34.62

902-928MHz_LoRa (500kHz)

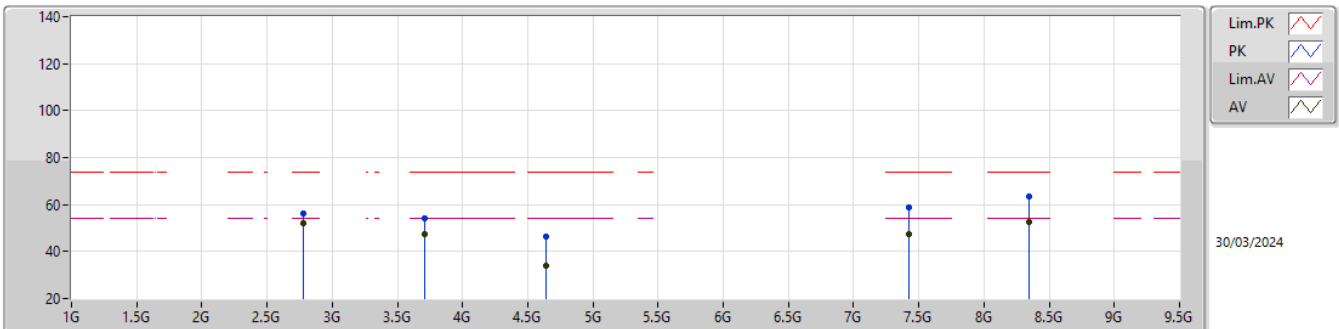
927.5MHz_TX



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)
AV	2.78264G	53.51	54.00	-0.49	0.34	3	Vertical	158	1.96	53.17	28.30	5.90	33.86
AV	3.70995G	51.65	54.00	-2.35	2.69	3	Vertical	207	1.50	48.96	29.86	6.88	34.05
AV	4.63683G	36.50	54.00	-17.50	5.26	3	Vertical	136	1.48	31.24	31.57	7.72	34.03
AV	7.42005G	48.02	54.00	-5.98	11.56	3	Vertical	159	2.70	36.46	36.36	9.55	34.35
AV	8.34622G	53.12	54.00	-0.88	12.69	3	Vertical	215	2.93	40.43	36.90	10.34	34.55
PK	2.78224G	57.49	74.00	-16.51	0.34	3	Vertical	158	1.96	57.15	28.30	5.90	33.86
PK	3.70906G	57.35	74.00	-16.65	2.68	3	Vertical	207	1.50	54.67	29.85	6.88	34.05
PK	4.63738G	49.61	74.00	-24.39	5.26	3	Vertical	136	1.48	44.35	31.57	7.72	34.03
PK	7.41833G	58.90	74.00	-15.10	11.56	3	Vertical	159	2.70	47.34	36.36	9.55	34.35
PK	8.34663G	64.19	74.00	-9.81	12.69	3	Vertical	215	2.93	51.50	36.90	10.34	34.55

902-928MHz_LoRa (500kHz)

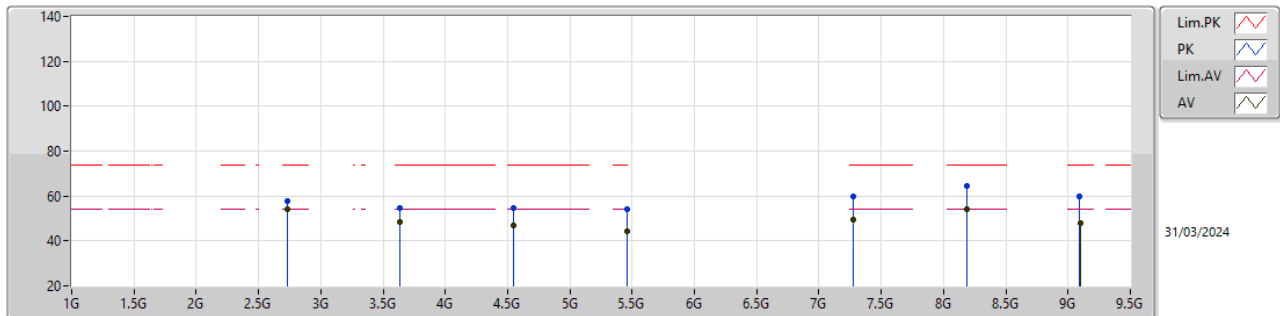
927.5MHz_TX



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)
AV	2.78243G	52.27	54.00	-1.73	0.34	3	Horizontal	284	1.20	51.93	28.30	5.90	33.86
AV	3.71002G	47.66	54.00	-6.34	2.69	3	Horizontal	185	1.95	44.97	29.86	6.88	34.05
AV	4.63704G	33.93	54.00	-20.07	5.26	3	Horizontal	276	1.01	28.67	31.57	7.72	34.03
AV	7.42119G	47.47	54.00	-6.53	11.56	3	Horizontal	332	1.02	35.91	36.36	9.55	34.35
AV	8.34878G	52.54	54.00	-1.46	12.70	3	Horizontal	342	1.09	39.84	36.90	10.35	34.55
PK	2.78201G	56.22	74.00	-17.78	0.34	3	Horizontal	284	1.20	55.88	28.30	5.90	33.86
PK	3.70937G	54.13	74.00	-19.87	2.69	3	Horizontal	185	1.95	51.44	29.86	6.88	34.05
PK	4.63656G	46.57	74.00	-27.43	5.26	3	Horizontal	276	1.01	41.31	31.57	7.72	34.03
PK	7.42008G	58.76	74.00	-15.24	11.56	3	Horizontal	332	1.02	47.20	36.36	9.55	34.35
PK	8.34658G	63.54	74.00	-10.46	12.69	3	Horizontal	342	1.09	50.85	36.90	10.34	34.55

902-928MHz_LoRa (500kHz)

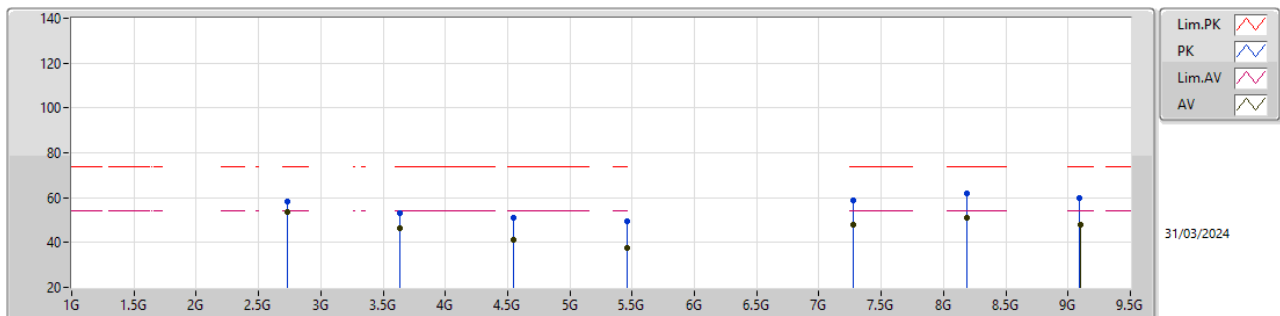
909.4MHz_TX



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)		
AV	2.72821G	53.89	54.00	-0.11	0.23	3	Vertical	144	2.30	53.66	28.22	5.83	33.82		
AV	3.63764G	48.61	54.00	-5.39	2.28	3	Vertical	208	1.50	46.33	29.48	6.87	34.07		
AV	4.54764G	46.68	54.00	-7.32	5.11	3	Vertical	149	1.49	41.57	31.50	7.65	34.04		
AV	5.45653G	44.45	54.00	-9.55	7.07	3	Vertical	170	1.41	37.38	32.70	8.27	33.90		
AV	7.27648G	49.36	54.00	-4.64	11.91	3	Vertical	151	2.53	37.45	36.70	9.55	34.34		
AV	8.18595G	53.88	54.00	-0.12	12.38	3	Vertical	230	2.11	41.50	36.83	10.11	34.56		
AV	9.09538G	47.94	54.00	-6.06	14.04	3	Vertical	199	2.70	33.90	37.91	10.74	34.61		
PK	2.72868G	57.75	74.00	-16.25	0.22	3	Vertical	144	2.30	57.53	28.21	5.83	33.82		
PK	3.63821G	54.78	74.00	-19.22	2.28	3	Vertical	208	1.50	52.50	29.48	6.87	34.07		
PK	4.54661G	54.88	74.00	-19.12	5.10	3	Vertical	149	1.49	49.78	31.49	7.65	34.04		
PK	5.45535G	54.01	74.00	-19.99	7.07	3	Vertical	170	1.41	46.94	32.70	8.27	33.90		
PK	7.27529G	59.62	74.00	-14.38	11.91	3	Vertical	151	2.53	47.71	36.70	9.55	34.34		
PK	8.18595G	64.56	74.00	-9.44	12.38	3	Vertical	230	2.11	52.18	36.83	10.11	34.56		
PK	9.09265G	60.00	74.00	-14.00	14.04	3	Vertical	199	2.70	45.96	37.91	10.74	34.61		

902-928MHz_LoRa (500kHz)

909.4MHz_TX



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)		
AV	2.7281G	53.62	54.00	-0.38	0.23	3	Horizontal	220	2.27	53.39	28.22	5.83	33.82		
AV	3.63748G	46.45	54.00	-7.55	2.27	3	Horizontal	185	1.79	44.18	29.47	6.87	34.07		
AV	4.54702G	41.43	54.00	-12.57	5.10	3	Horizontal	314	3.00	36.33	31.49	7.65	34.04		
AV	5.45725G	37.58	54.00	-16.42	7.07	3	Horizontal	325	2.29	30.51	32.70	8.27	33.90		
AV	7.27642G	47.94	54.00	-6.06	11.91	3	Horizontal	338	1.00	36.03	36.70	9.55	34.34		
AV	8.18613G	51.22	54.00	-2.78	12.38	3	Horizontal	332	1.50	38.84	36.83	10.11	34.56		
AV	9.09549G	47.72	54.00	-6.28	14.04	3	Horizontal	19	1.35	33.68	37.91	10.74	34.61		
PK	2.72858G	58.33	74.00	-15.67	0.22	3	Horizontal	220	2.27	58.11	28.21	5.83	33.82		
PK	3.63803G	53.07	74.00	-20.93	2.28	3	Horizontal	185	1.79	50.79	29.48	6.87	34.07		
PK	4.54695G	51.06	74.00	-22.94	5.10	3	Horizontal	314	3.00	45.96	31.49	7.65	34.04		
PK	5.45701G	49.41	74.00	-24.59	7.07	3	Horizontal	325	2.29	42.34	32.70	8.27	33.90		
PK	7.27593G	58.55	74.00	-15.45	11.91	3	Horizontal	338	1.00	46.64	36.70	9.55	34.34		
PK	8.18301G	61.67	74.00	-12.33	12.38	3	Horizontal	332	1.50	49.29	36.83	10.11	34.56		
PK	9.09291G	60.07	74.00	-13.93	14.04	3	Horizontal	19	1.35	46.03	37.91	10.74	34.61		



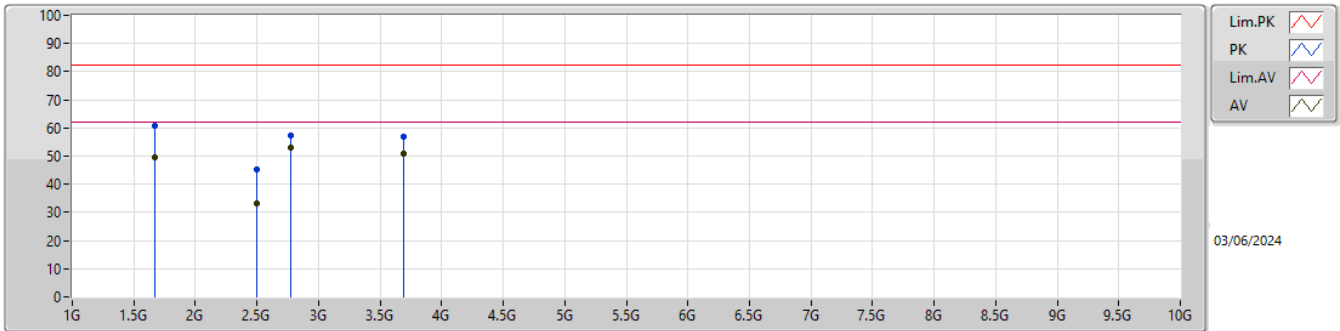
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	2.76995G	53.12	62.20	-9.08	Vertical
Mode 2	Pass	AV	2.76981G	53.06	62.20	-9.14	Vertical
Mode 3	Pass	AV	2.77189G	53.91	62.20	-8.29	Vertical

Result

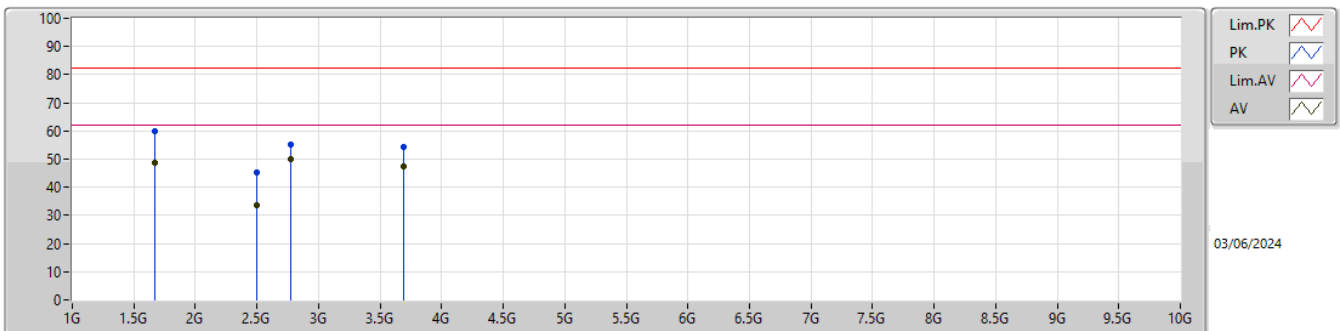
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	1.66833G	49.55	62.20	-12.65	3	Vertical	352	1.52
Mode 1	Pass	AV	2.50303G	33.24	62.20	-28.96	3	Vertical	263	1.61
Mode 1	Pass	AV	2.76995G	53.12	62.20	-9.08	3	Vertical	46	1.58
Mode 1	Pass	AV	3.69323G	51.03	62.20	-11.17	3	Vertical	277	1.05
Mode 1	Pass	PK	1.66847G	60.83	82.20	-21.37	3	Vertical	352	1.52
Mode 1	Pass	PK	2.50312G	45.11	82.20	-37.09	3	Vertical	263	1.61
Mode 1	Pass	PK	2.77002G	57.47	82.20	-24.73	3	Vertical	46	1.58
Mode 1	Pass	PK	3.69371G	56.77	82.20	-25.43	3	Vertical	277	1.05
Mode 1	Pass	AV	1.66829G	48.65	62.20	-13.55	3	Horizontal	317	2.47
Mode 1	Pass	AV	2.50314G	33.72	62.20	-28.48	3	Horizontal	234	2.28
Mode 1	Pass	AV	2.76983G	50.03	62.20	-12.17	3	Horizontal	112	1.28
Mode 1	Pass	AV	3.69328G	47.23	62.20	-14.97	3	Horizontal	149	1.91
Mode 1	Pass	PK	1.66811G	59.96	82.20	-22.24	3	Horizontal	317	2.47
Mode 1	Pass	PK	2.50307G	45.39	82.20	-36.81	3	Horizontal	234	2.28
Mode 1	Pass	PK	2.77029G	55.01	82.20	-27.19	3	Horizontal	112	1.28
Mode 1	Pass	PK	3.69387G	54.17	82.20	-28.03	3	Horizontal	149	1.91
Mode 2	Pass	AV	1.67288G	40.94	62.20	-21.26	3	Vertical	305	1.16
Mode 2	Pass	AV	2.50814G	29.79	62.20	-32.41	3	Vertical	120	1.96
Mode 2	Pass	AV	2.76981G	53.06	62.20	-9.14	3	Vertical	343	2.48
Mode 2	Pass	AV	3.69374G	51.23	62.20	-10.97	3	Vertical	265	1.03
Mode 2	Pass	PK	1.67261G	53.03	82.20	-29.17	3	Vertical	305	1.16
Mode 2	Pass	PK	2.50871G	41.63	82.20	-40.57	3	Vertical	120	1.96
Mode 2	Pass	PK	2.76988G	57.59	82.20	-24.61	3	Vertical	343	2.48
Mode 2	Pass	PK	3.69313G	56.21	82.20	-25.99	3	Vertical	265	1.03
Mode 2	Pass	AV	1.67267G	43.25	62.20	-18.95	3	Horizontal	73	1.55
Mode 2	Pass	AV	2.50849G	29.88	62.20	-32.32	3	Horizontal	233	2.21
Mode 2	Pass	AV	2.76943G	50.24	62.20	-11.96	3	Horizontal	5	1.01
Mode 2	Pass	AV	3.69302G	47.02	62.20	-15.18	3	Horizontal	93	1.46
Mode 2	Pass	PK	1.67237G	55.91	82.20	-26.29	3	Horizontal	73	1.55
Mode 2	Pass	PK	2.50888G	40.99	82.20	-41.21	3	Horizontal	233	2.21
Mode 2	Pass	PK	2.77003G	55.19	82.20	-27.01	3	Horizontal	5	1.01
Mode 2	Pass	PK	3.69356G	54.12	82.20	-28.08	3	Horizontal	93	1.46
Mode 3	Pass	AV	1.67018G	41.15	62.20	-21.05	3	Vertical	217	1.74
Mode 3	Pass	AV	2.5054G	27.81	62.20	-34.39	3	Vertical	178	2.41
Mode 3	Pass	AV	2.77189G	53.91	62.20	-8.29	3	Vertical	258	1.64
Mode 3	Pass	AV	3.69187G	50.04	62.20	-12.16	3	Vertical	140	1.09
Mode 3	Pass	PK	1.67211G	51.18	82.20	-31.02	3	Vertical	217	1.74
Mode 3	Pass	PK	2.50111G	40.41	82.20	-41.79	3	Vertical	178	2.41
Mode 3	Pass	PK	2.77348G	58.72	82.20	-23.48	3	Vertical	258	1.64
Mode 3	Pass	PK	3.69131G	56.71	82.20	-25.49	3	Vertical	140	1.09
Mode 3	Pass	AV	1.67187G	44.19	62.20	-18.01	3	Horizontal	188	2.11
Mode 3	Pass	AV	2.50429G	30.75	62.20	-31.45	3	Horizontal	24	1.71
Mode 3	Pass	AV	2.77043G	51.65	62.20	-10.55	3	Horizontal	66	1.35
Mode 3	Pass	AV	3.69362G	48.65	62.20	-13.55	3	Horizontal	341	1.52
Mode 3	Pass	PK	1.6713G	55.77	82.20	-26.43	3	Horizontal	188	2.11
Mode 3	Pass	PK	2.50488G	41.49	82.20	-40.71	3	Horizontal	24	1.71
Mode 3	Pass	PK	2.7717G	57.41	82.20	-24.79	3	Horizontal	66	1.35
Mode 3	Pass	PK	3.69367G	56.43	82.20	-25.77	3	Horizontal	341	1.52

Radiated Emissions above 1GHz_Mode 1



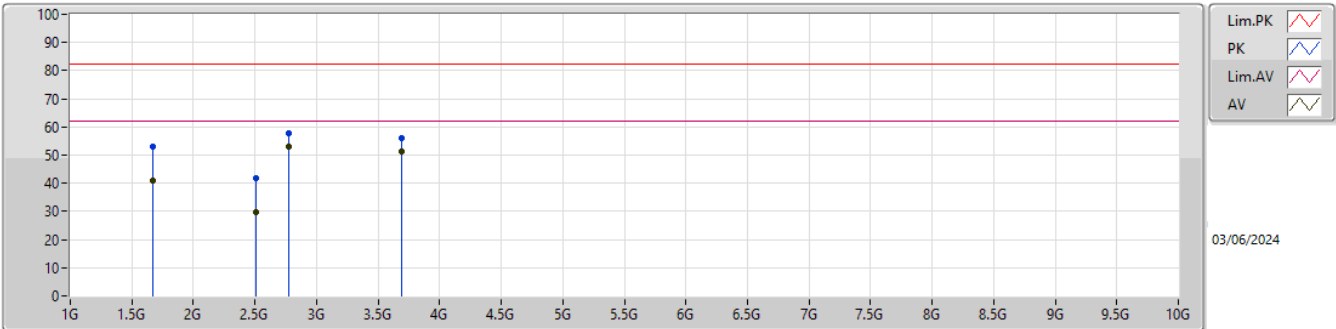
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)				
AV	1.66833G	49.55	62.20	-12.65	-6.00	3	Vertical	352	1.52	55.55	25.18	3.74	34.92				
AV	2.50303G	33.24	62.20	-28.96	-2.69	3	Vertical	263	1.61	35.93	27.63	4.66	34.98				
AV	2.76995G	53.12	62.20	-9.08	-1.76	3	Vertical	46	1.58	54.88	28.30	4.95	35.01				
AV	3.69323G	51.03	62.20	-11.17	0.55	3	Vertical	277	1.05	50.48	29.69	5.79	34.93				
PK	1.66847G	60.83	82.20	-21.37	-6.00	3	Vertical	352	1.52	66.83	25.18	3.74	34.92				
PK	2.50312G	45.11	82.20	-37.09	-2.69	3	Vertical	263	1.61	47.80	27.63	4.66	34.98				
PK	2.77002G	57.47	82.20	-24.73	-1.76	3	Vertical	46	1.58	59.23	28.30	4.95	35.01				
PK	3.69371G	56.77	82.20	-25.43	0.55	3	Vertical	277	1.05	56.22	29.69	5.79	34.93				

Radiated Emissions above 1GHz_Mode 1

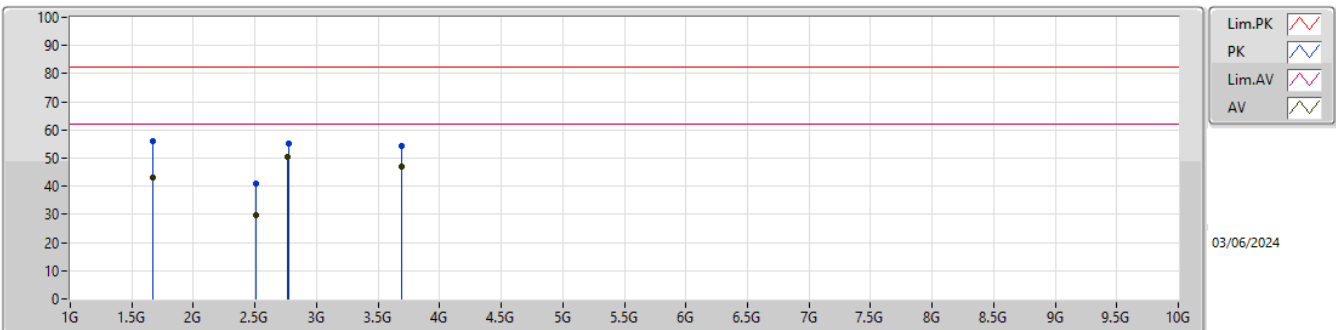


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)				
AV	1.66829G	48.65	62.20	-13.55	-6.00	3	Horizontal	317	2.47	54.65	25.18	3.74	34.92				
AV	2.50314G	33.72	62.20	-28.48	-2.69	3	Horizontal	234	2.28	36.41	27.63	4.66	34.98				
AV	2.76983G	50.03	62.20	-12.17	-1.76	3	Horizontal	112	1.28	51.79	28.30	4.95	35.01				
AV	3.69328G	47.23	62.20	-14.97	0.55	3	Horizontal	149	1.91	46.68	29.69	5.79	34.93				
PK	1.66811G	59.96	82.20	-22.24	-6.00	3	Horizontal	317	2.47	65.96	25.18	3.74	34.92				
PK	2.50307G	45.39	82.20	-36.81	-2.69	3	Horizontal	234	2.28	48.08	27.63	4.66	34.98				
PK	2.77029G	55.01	82.20	-27.19	-1.76	3	Horizontal	112	1.28	56.77	28.30	4.95	35.01				
PK	3.69387G	54.17	82.20	-28.03	0.55	3	Horizontal	149	1.91	53.62	29.69	5.79	34.93				

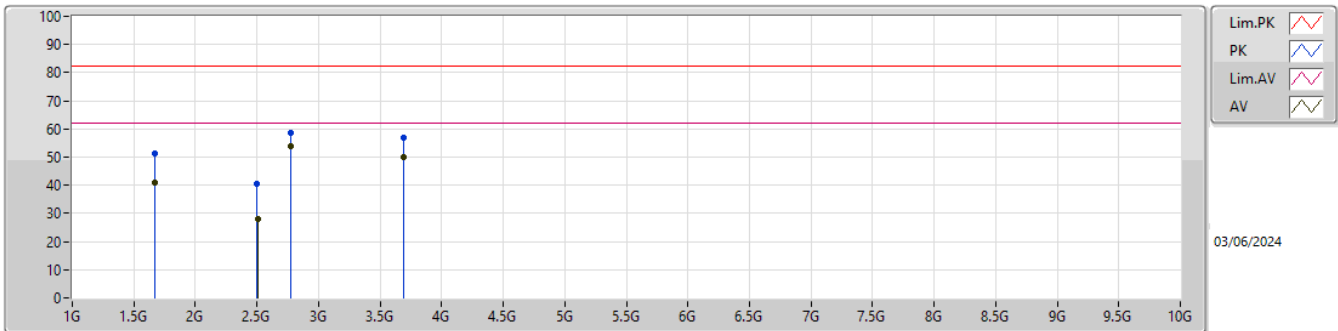
Radiated Emissions above 1GHz_Mode 2



Radiated Emissions above 1GHz_Mode 2

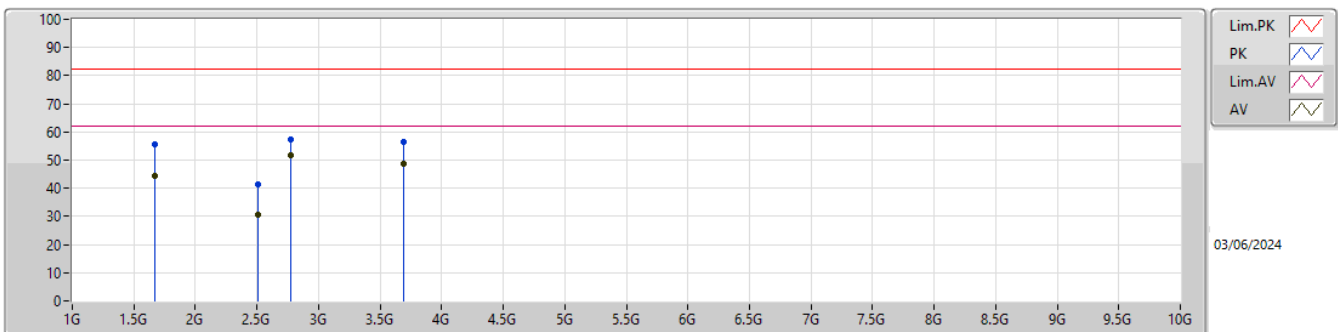


Radiated Emissions above 1GHz_Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.67018G	41.15	62.20	-21.05	-5.98	3	Vertical	217	1.74	47.13	25.20	3.74	34.92
AV	2.5054G	27.81	62.20	-34.39	-2.67	3	Vertical	178	2.41	30.48	27.65	4.66	34.98
AV	2.77189G	53.91	62.20	-8.29	-1.76	3	Vertical	258	1.64	55.67	28.30	4.95	35.01
AV	3.69187G	50.04	62.20	-12.16	0.53	3	Vertical	140	1.09	49.51	29.68	5.78	34.93
PK	1.67211G	51.18	82.20	-31.02	-5.95	3	Vertical	217	1.74	57.13	25.22	3.75	34.92
PK	2.50111G	40.41	82.20	-41.79	-2.71	3	Vertical	178	2.41	43.12	27.61	4.66	34.98
PK	2.77348G	58.72	82.20	-23.48	-1.76	3	Vertical	258	1.64	60.48	28.30	4.95	35.01
PK	3.69131G	56.71	82.20	-25.49	0.53	3	Vertical	140	1.09	56.18	29.68	5.78	34.93

Radiated Emissions above 1GHz_Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.67187G	44.19	62.20	-18.01	-5.95	3	Horizontal	188	2.11	50.14	25.22	3.75	34.92
AV	2.50429G	30.75	62.20	-31.45	-2.68	3	Horizontal	24	1.71	33.43	27.64	4.66	34.98
AV	2.77043G	51.65	62.20	-10.55	-1.76	3	Horizontal	66	1.35	53.41	28.30	4.95	35.01
AV	3.69362G	48.65	62.20	-13.55	0.55	3	Horizontal	341	1.52	48.10	29.69	5.79	34.93
PK	1.6713G	55.77	82.20	-26.43	-5.97	3	Horizontal	188	2.11	61.74	25.21	3.74	34.92
PK	2.50488G	41.49	82.20	-40.71	-2.67	3	Horizontal	24	1.71	44.16	27.65	4.66	34.98
PK	2.7717G	57.41	82.20	-24.79	-1.76	3	Horizontal	66	1.35	59.17	28.30	4.95	35.01
PK	3.69367G	56.43	82.20	-25.77	0.55	3	Horizontal	341	1.52	55.88	29.69	5.79	34.93