

FCC Radio Test Report

FCC ID : 2BOYO-SCR-10
Equipment : Wireless Card Reader
Brand Name : SKS
Model Name : SCR-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 Mar. 25, 2025, and testing was started from Apr. 15, 2025 and completed on Apr. 23, 2025. 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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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	-
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: Sam Tsai

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)	923.3-927.5	8

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 hybrid system using DTS & FHSS.
- ♦ LoRa (125kHz) uses FHSS.
- ♦ LoRa (500kHz) uses DTS.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Support	Gain (dBi)
1	1	FeiXin	FX-ZF-923M-TH-253	spring	N/A	Lora	1.5
2	2	JESONcom	6B003A-36	NFC	N/A	NFC	0

For LoRa function:

For LoRa mode (1TX/1RX)

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

For NFC function:

For NFC mode (1TX/1RX)

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

1.1.3 Type of EUT

Operational Condition	
EUT Power Type	From Adapter
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 (500kHz)	0.24	6.2	157.188m	10
LoRa (125kHz)	0.546	2.63	627.5m	10

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

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 Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH07-HY	Yuna Lin	22.8~23.3°C / 46~49%	17/Apr/2025~18/Apr/2025
AC Conduction	CO04-HY	Daniel Lin	21.5~23.9°C / 52~55%	23/Apr/2025
Radiated	03CH03-HY	Simon Cheng	22.2~23.4°C / 50~52%	15/Apr/2025
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	

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-DTS	Abbreviation	Remark
TX-DTS	Tnom	20°C
	Vnom	5V
TX-FHSS	Tnom	20°C
	Vnom	5V

2.2 Test Channel Mode

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

Mode	Power Setting
LoRa (500kHz)	-
923.3MHz	21
927.5MHz	17
LoRa (125kHz)	-
902.3MHz	20
908.5MHz	20
914.9MHz	20

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	Adapter 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)

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



2.4 Accessories

Accessories				
AC Adapter 1 (TAIWAN Plug)	Brand Name	Sunun	Model Name	SA182V-050300U
	Manufacturer	Dongguan Sunun Power Co., Ltd	SN	-
	Power Rating	I/P: 100 - 240Vac, 0.4A, O/P: 90-264Vdc, 3A		
	Power Cord	1.5meter, non-shielded cable, w/o ferrite core		
Battery	Brand Name	EVE	Model Name	ICR18650/26V
	Manufacturer	EVE Energy CO., LTD	SN	-
	Power Rating	3.6Vdc, 2550mAh	Type	Li-ion, Yes

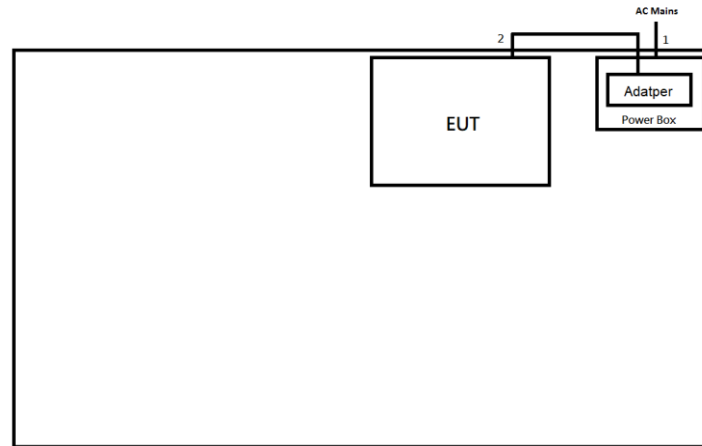
Reminder: Regarding to more detail and other information, please refer to user manual.

2.5 Support Equipment

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

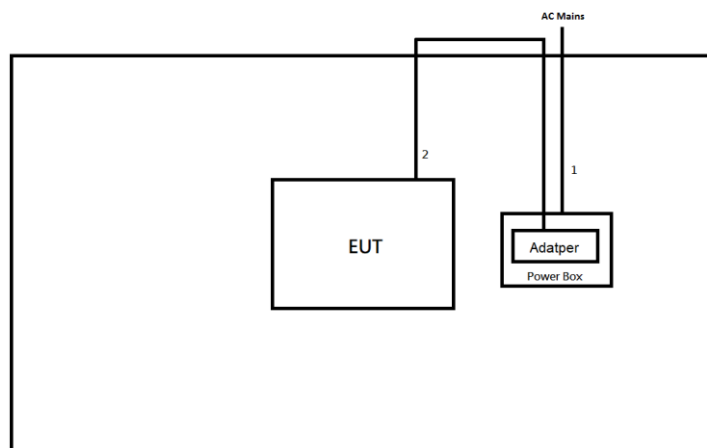
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power Cable	No	1.5	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power Cable	No	1.5	-

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

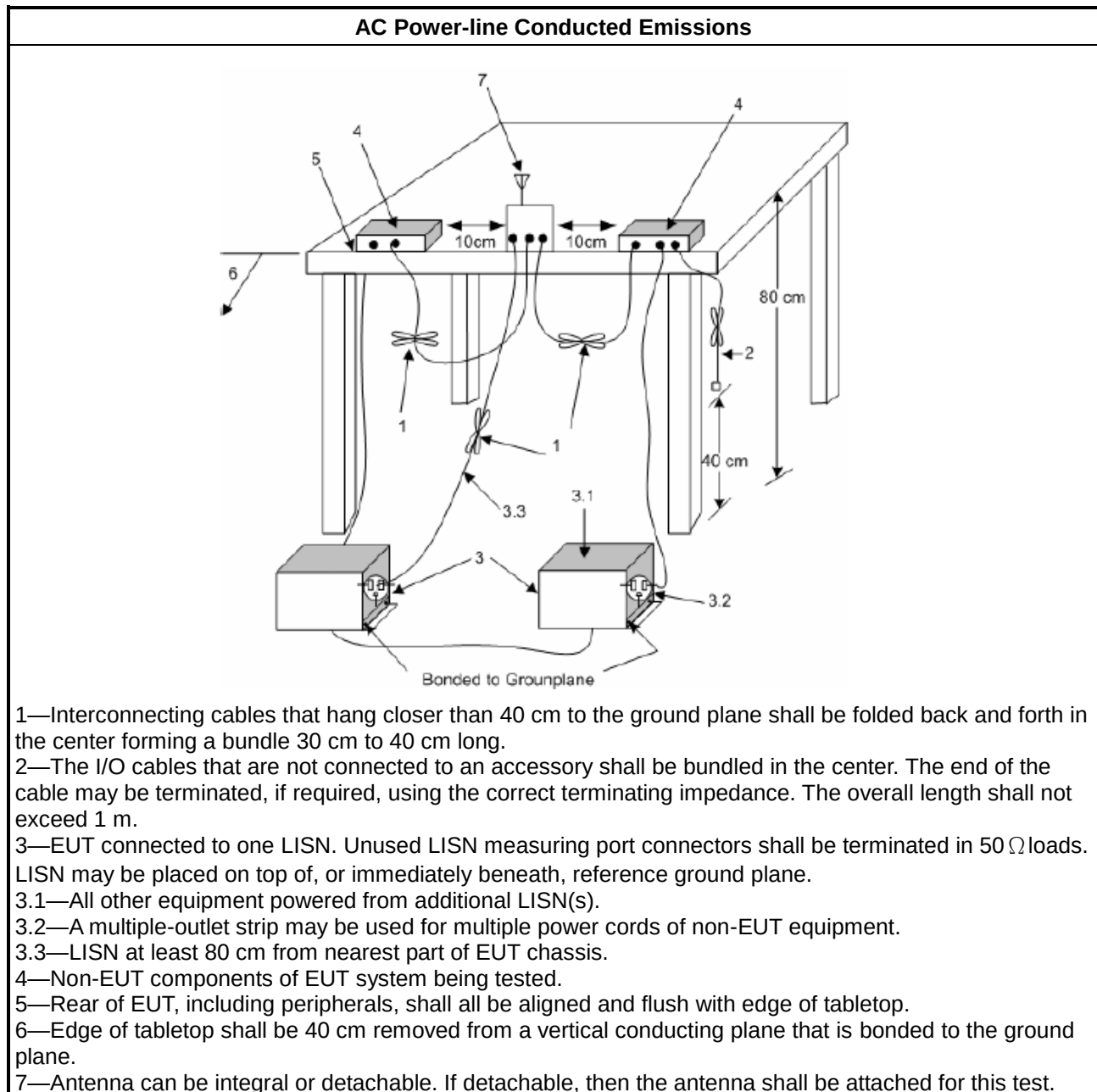
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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



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

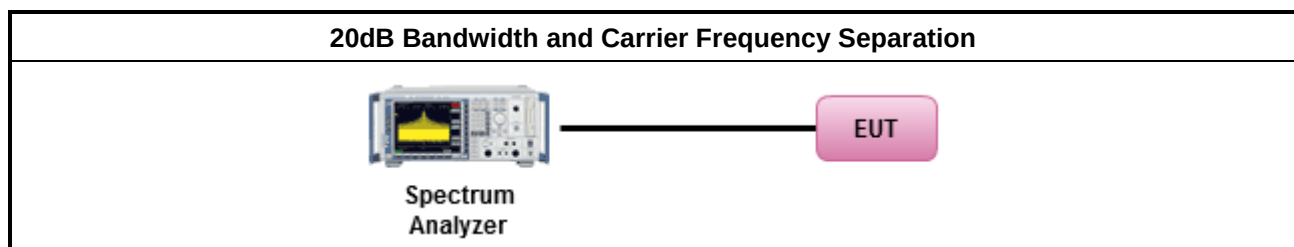
3.2.2 Measuring Instruments

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	

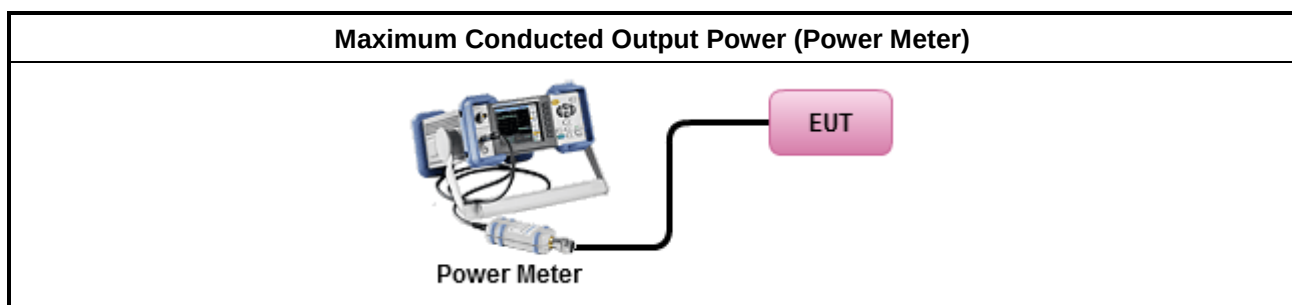
3.3.2 Measuring Instruments

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



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

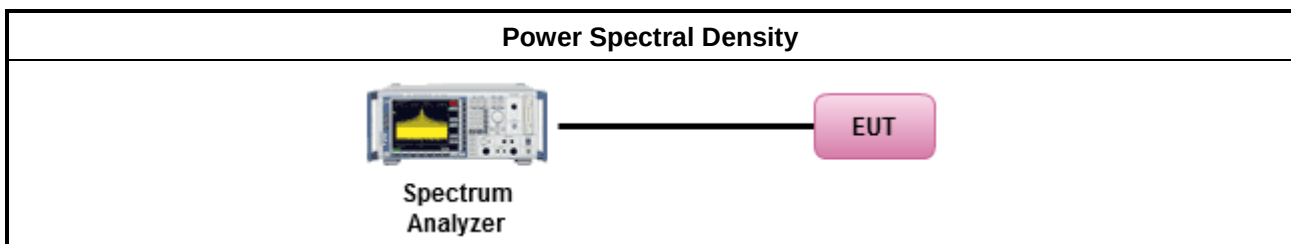
3.4.2 Measuring Instruments

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

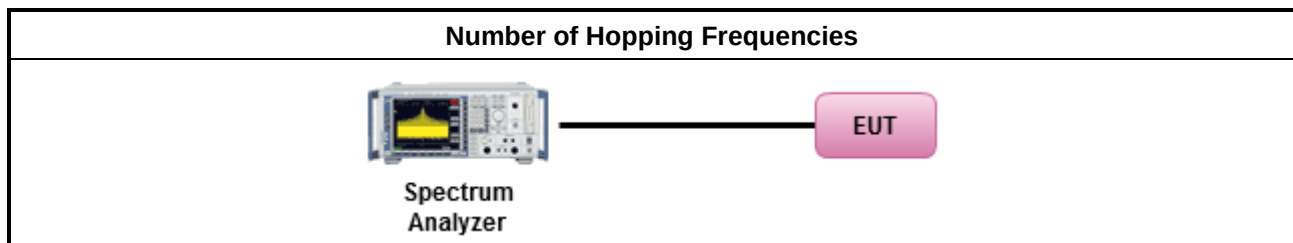
3.5.3 Measuring Instruments

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	

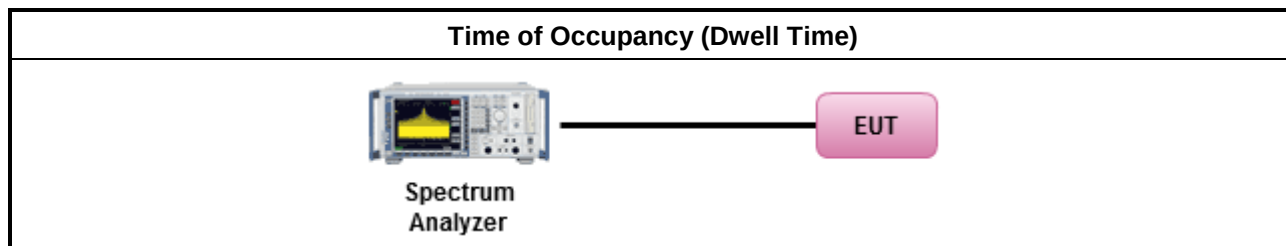
3.6.2 Measuring Instruments

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.	

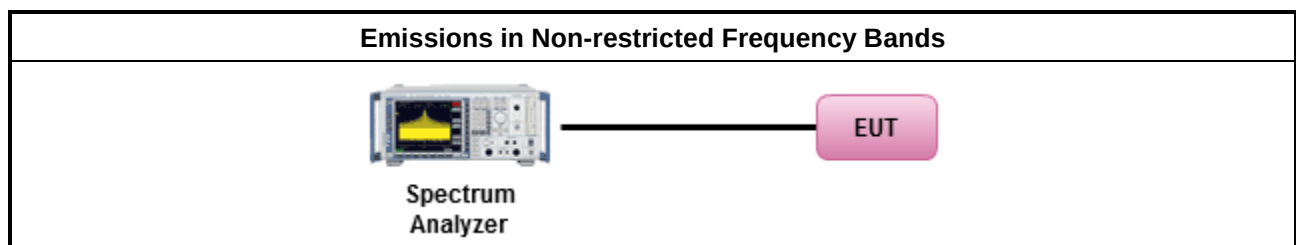
3.7.2 Measuring Instruments

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

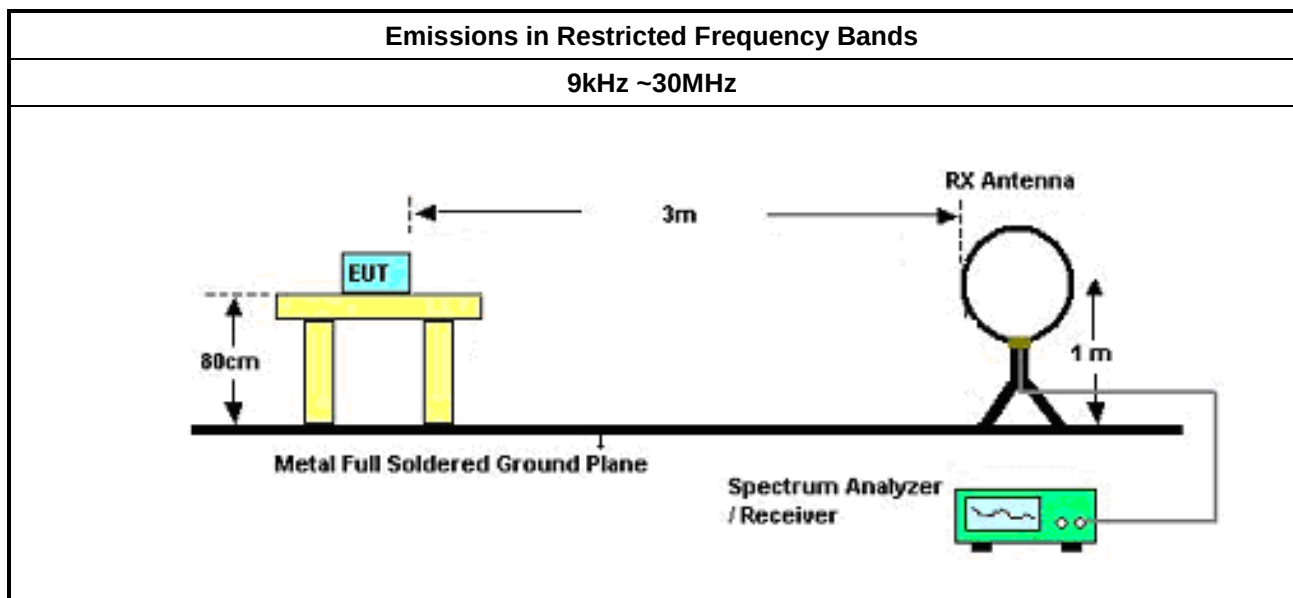
Test Method	
The average emission levels shall be measured in [hopping duty factor].	
Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall 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.

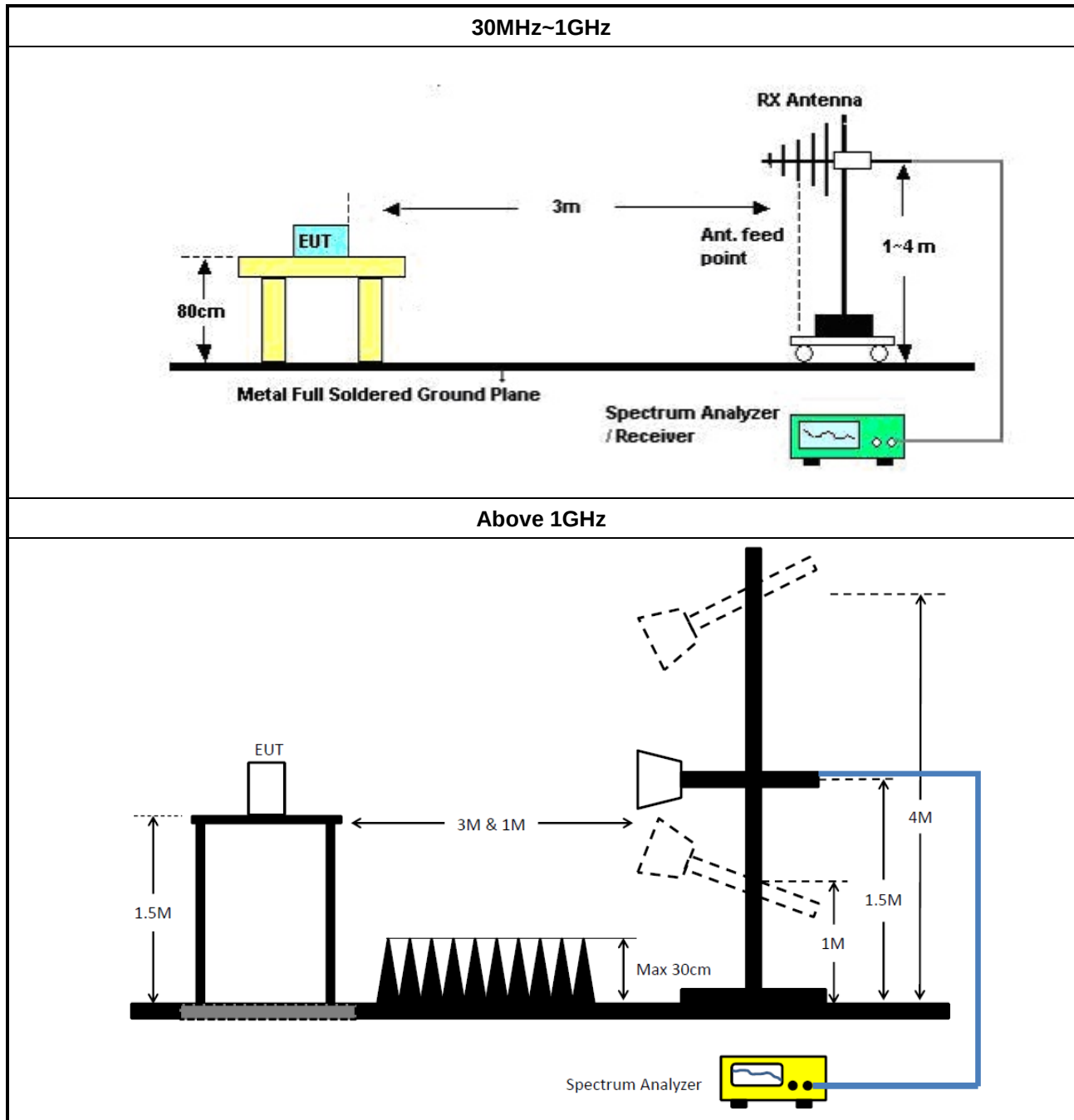
3.8.4 Measurement Results Calculation

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	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	17/May/2024	16/May/2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101578	9kHz ~ 30MHz	11/Oct/2024	10/Oct/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
Software	Sporton	SENSE-EMI	V5.11.3	-	NCR	NCR

NCR: No Calibration Required.

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	23/Jan/2025	22/Jan/2026
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	18/Dec/2024	17/Dec/2025
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	18/Dec/2024	17/Dec/2025
SENSE-15247_FS	Sporton	V5.11.23	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	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	14/Jul/2024	13/Jul/2025
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	14/Jul/2024	13/Jul/2025
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	03/May/2024	02/May/2025
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	01/Nov/2024	31/Oct/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	14/Oct/2024	13/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	18/Oct/2024	17/Oct/2025
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	12/Jun/2024	11/Jun/2025
RF Cable-R03m	Jye Bao	RG142	03CH03-cable-02	30MHz~1GHz	12/Jun/2024	11/Jun/2025
RF CABLE 5+8m	HUBER+SUHNER	SUOFLEX_104	03CH03-cable-03	1GHz~40GHz	11/Apr/2025	10/Apr/2026
Amplifier	Aglient	8447D	2944A08033	100kHz~1.3GHz	13/Sep/2024	12/Sep/2025
Microwave Prempplier	Agilent	8449B	3008A02326	1GHz~26.5GHz	25/Jul/2024	24/Jul/2025
SENSE-15407_FS	Sporton	V5.11.23	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

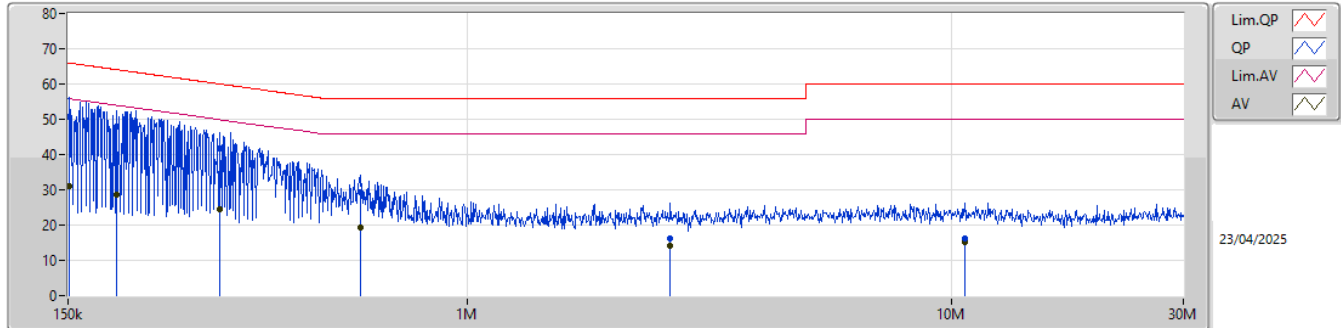
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150.6k	50.59	65.96	-15.37	Line

Result

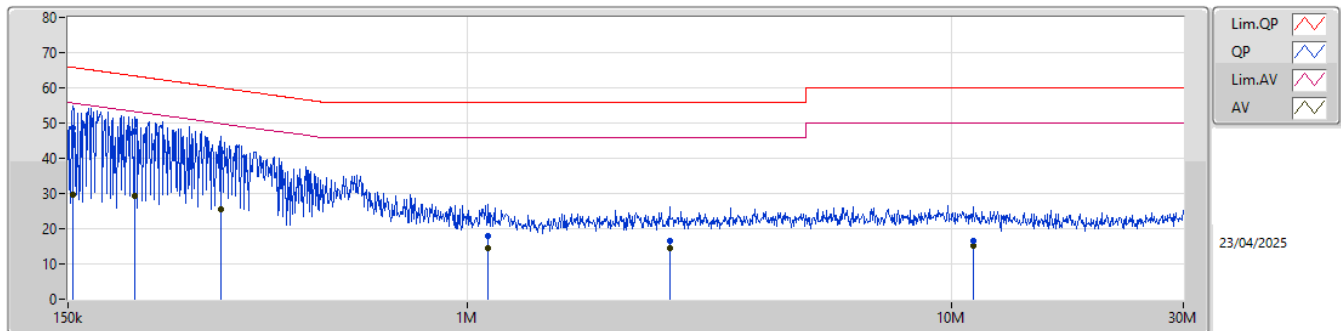
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150.6k	50.59	65.96	-15.37	Line
Mode 1	Pass	AV	150.6k	30.98	55.96	-24.98	Line
Mode 1	Pass	QP	189.08k	47.77	64.07	-16.30	Line
Mode 1	Pass	AV	189.08k	28.48	54.07	-25.59	Line
Mode 1	Pass	QP	308.954k	41.58	60.00	-18.42	Line
Mode 1	Pass	AV	308.954k	24.38	50.00	-25.62	Line
Mode 1	Pass	QP	601.76k	29.18	56.00	-26.82	Line
Mode 1	Pass	AV	601.76k	19.38	46.00	-26.62	Line
Mode 1	Pass	QP	2.625M	16.31	56.00	-39.69	Line
Mode 1	Pass	AV	2.625M	14.12	46.00	-31.88	Line
Mode 1	Pass	QP	10.616M	16.35	60.00	-43.65	Line
Mode 1	Pass	AV	10.616M	15.04	50.00	-34.96	Line
Mode 1	Pass	QP	153.636k	48.64	65.81	-17.17	Neutral
Mode 1	Pass	AV	153.636k	29.77	55.81	-26.04	Neutral
Mode 1	Pass	QP	205.615k	47.65	63.38	-15.73	Neutral
Mode 1	Pass	AV	205.615k	29.17	53.38	-24.21	Neutral
Mode 1	Pass	QP	310.189k	41.56	59.96	-18.40	Neutral
Mode 1	Pass	AV	310.189k	25.47	49.96	-24.49	Neutral
Mode 1	Pass	QP	1.104M	17.84	56.00	-38.16	Neutral
Mode 1	Pass	AV	1.104M	14.36	46.00	-31.64	Neutral
Mode 1	Pass	QP	2.615M	16.38	56.00	-39.62	Neutral
Mode 1	Pass	AV	2.615M	14.44	46.00	-31.56	Neutral
Mode 1	Pass	QP	11.048M	16.43	60.00	-43.57	Neutral
Mode 1	Pass	AV	11.048M	15.06	50.00	-34.94	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	150.6k	50.59	65.96	-15.37	19.89	Line	-	30.70	9.91	0.01	9.97						
AV	150.6k	30.98	55.96	-24.98	19.89	Line	-	11.09	9.91	0.01	9.97						
QP	189.08k	47.77	64.07	-16.30	20.05	Line	-	27.72	10.07	0.01	9.97						
AV	189.08k	28.48	54.07	-25.59	20.05	Line	-	8.43	10.07	0.01	9.97						
QP	308.954k	41.58	60.00	-18.42	19.84	Line	-	21.74	9.84	0.02	9.98						
AV	308.954k	24.38	50.00	-25.62	19.84	Line	-	4.54	9.84	0.02	9.98						
QP	601.76k	29.18	56.00	-26.82	20.03	Line	-	9.15	10.01	0.04	9.98						
AV	601.76k	19.38	46.00	-26.62	20.03	Line	-	-0.65	10.01	0.04	9.98						
QP	2.625M	16.31	56.00	-39.69	19.71	Line	-	-3.40	9.70	0.04	9.97						
AV	2.625M	14.12	46.00	-31.88	19.71	Line	-	-5.59	9.70	0.04	9.97						
QP	10.616M	16.35	60.00	-43.65	19.92	Line	-	-3.57	9.69	0.25	9.98						
AV	10.616M	15.04	50.00	-34.96	19.92	Line	-	-4.88	9.69	0.25	9.98						

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	153.636k	48.64	65.81	-17.17	19.96	Neutral	-	28.68	9.98	0.01	9.97						
AV	153.636k	29.77	55.81	-26.04	19.96	Neutral	-	9.81	9.98	0.01	9.97						
QP	205.615k	47.65	63.38	-15.73	19.91	Neutral	-	27.74	9.93	0.01	9.97						
AV	205.615k	29.17	53.38	-24.21	19.91	Neutral	-	9.26	9.93	0.01	9.97						
QP	310.189k	41.56	59.96	-18.40	19.84	Neutral	-	21.72	9.84	0.02	9.98						
AV	310.189k	25.47	49.96	-24.49	19.84	Neutral	-	5.63	9.84	0.02	9.98						
QP	1.104M	17.84	56.00	-38.16	19.84	Neutral	-	-2.00	9.81	0.05	9.98						
AV	1.104M	14.36	46.00	-31.64	19.84	Neutral	-	-5.48	9.81	0.05	9.98						
QP	2.615M	16.38	56.00	-39.62	19.71	Neutral	-	-3.33	9.70	0.04	9.97						
AV	2.615M	14.44	46.00	-31.56	19.71	Neutral	-	-5.27	9.70	0.04	9.97						
QP	11.048M	16.43	60.00	-43.57	19.96	Neutral	-	-3.53	9.73	0.25	9.98						
AV	11.048M	15.06	50.00	-34.94	19.96	Neutral	-	-4.90	9.73	0.25	9.98						

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
LoRa (125kHz)	147.4k	125.187k	125KF1D	143k	124.938k

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	147.4k	125.187k
908.5MHz	Pass	Inf	146.85k	125.187k
914.9MHz	Pass	Inf	143k	124.938k

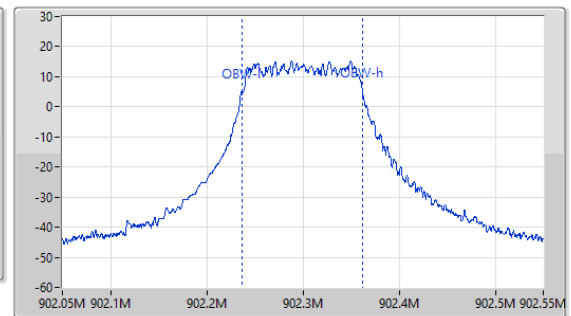
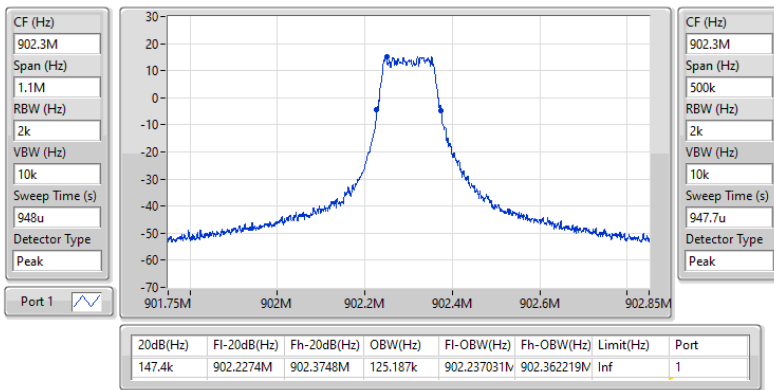
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

902-928MHz_LoRa (125kHz)

EBW-FS

902.3MHz

17/04/2025





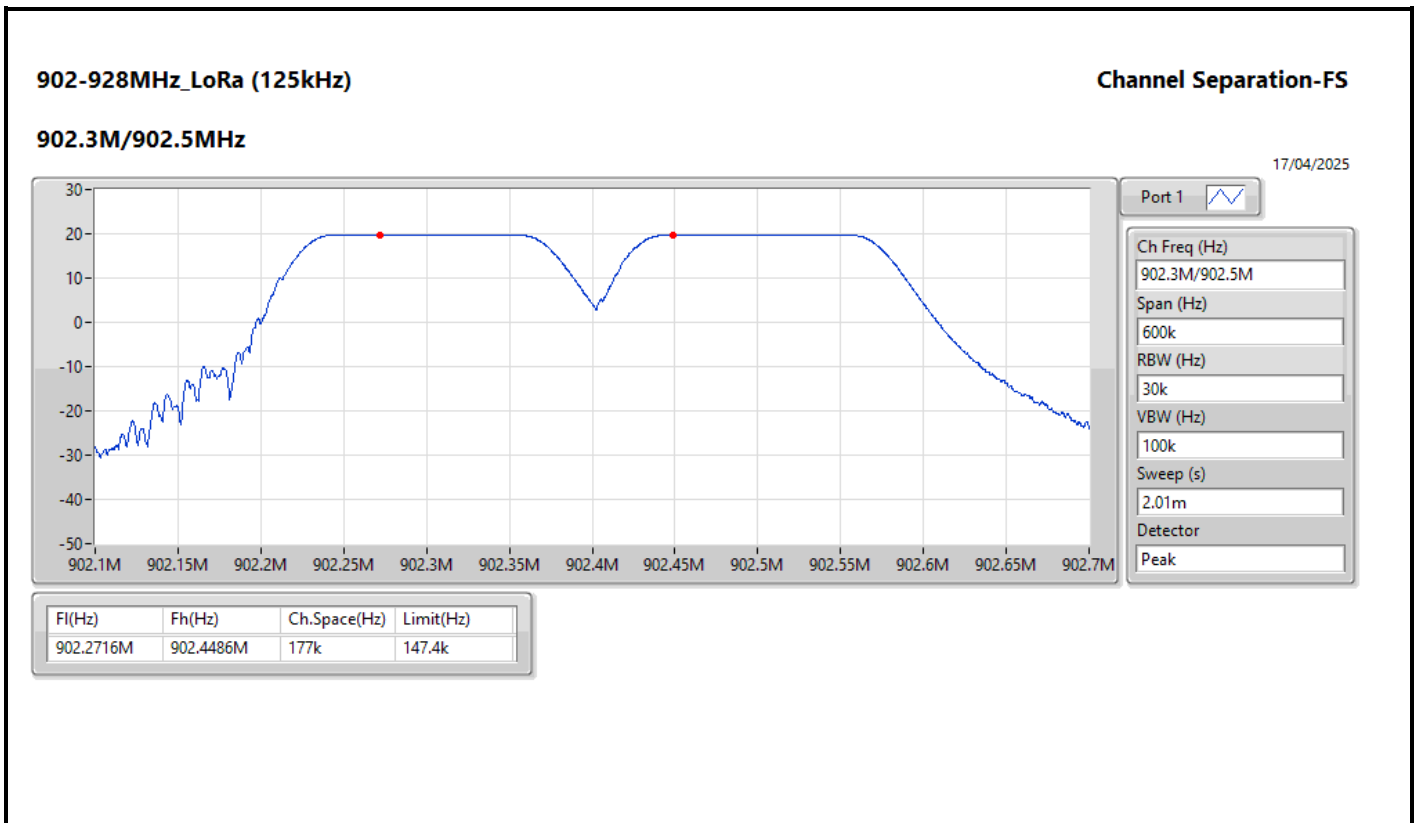
Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
902-928MHz	-	-
LoRa (125kHz)	199.2k	177k



Result

Mode	Result	Fi (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
LoRa (125kHz)	-	-	-	-	-
902.3MHz	Pass	902.2716M	902.4486M	177k	147.4k
908.5MHz	Pass	908.534M	908.7119M	177.9k	146.85k
914.9MHz	Pass	914.6743M	914.8735M	199.2k	143k





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
LoRa (500kHz)	624.375k	512.244k	512KF1D	611.25k	507.871k

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	624.375k	507.871k
927.5MHz	Pass	500k	611.25k	512.244k

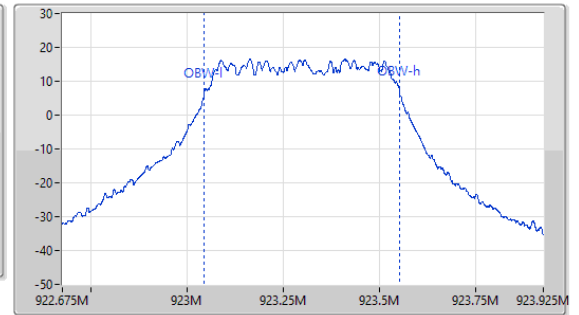
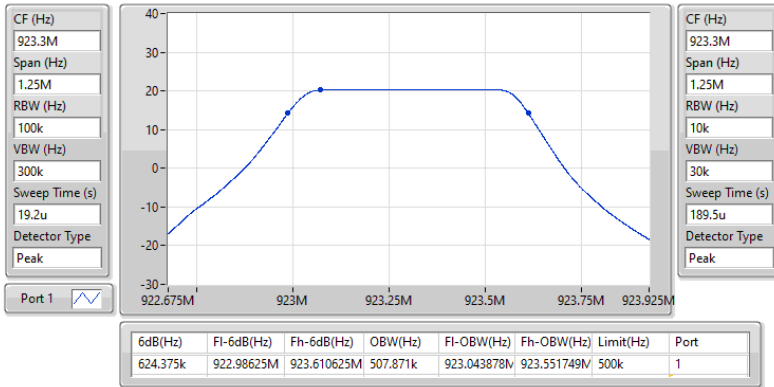
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

902-928MHz_LoRa (500kHz)

EBW-DTS

923.3MHz

17/04/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
902-928MHz	-	-
LoRa (125kHz)	19.87	0.09705



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
LoRa (125kHz)	-	-	-	-
902.3MHz	Pass	1.50	19.87	30.00
908.5MHz	Pass	1.50	19.75	30.00
914.9MHz	Pass	1.50	19.66	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 (125kHz)	19.75	0.09441



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
LoRa (125kHz)	-	-	-	-
902.3MHz	Pass	1.50	19.75	30.00
908.5MHz	Pass	1.50	19.71	30.00
914.9MHz	Pass	1.50	19.61	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)	20.50	0.11220



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
LoRa (500kHz)	-	-	-	-
923.3MHz	Pass	1.50	20.50	30.00
927.5MHz	Pass	1.50	16.22	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)	20.38	0.10914



Average Power-DTS

Appendix C.4

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
LoRa (500kHz)	-	-	-	-
923.3MHz	Pass	1.50	20.38	30.00
927.5MHz	Pass	1.50	16.08	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)	7.08

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
LoRa (500kHz)	-	-	-	-
923.3MHz	Pass	1.50	7.08	8.00
927.5MHz	Pass	1.50	3.25	8.00

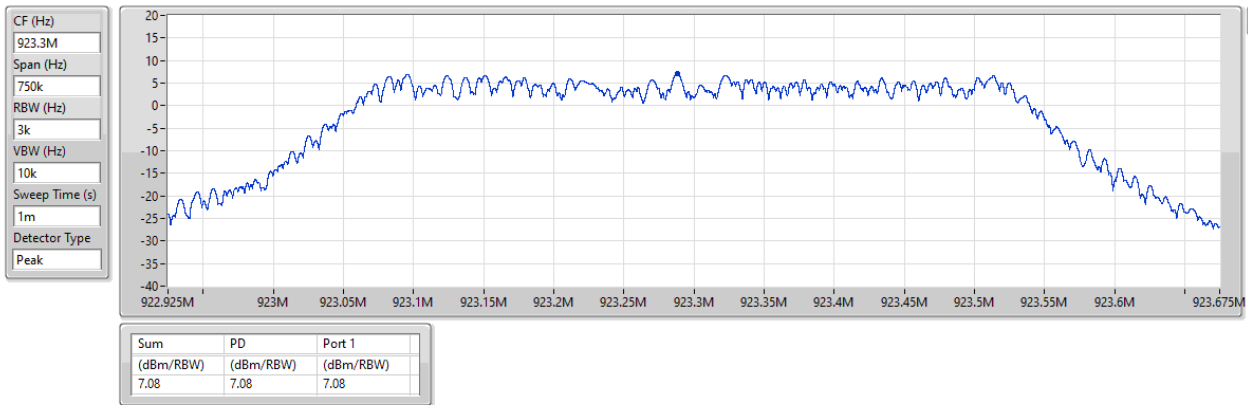
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

902-928MHz_LoRa (500kHz)

PSD

923.3MHz

17/04/2025





Summary

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



Result

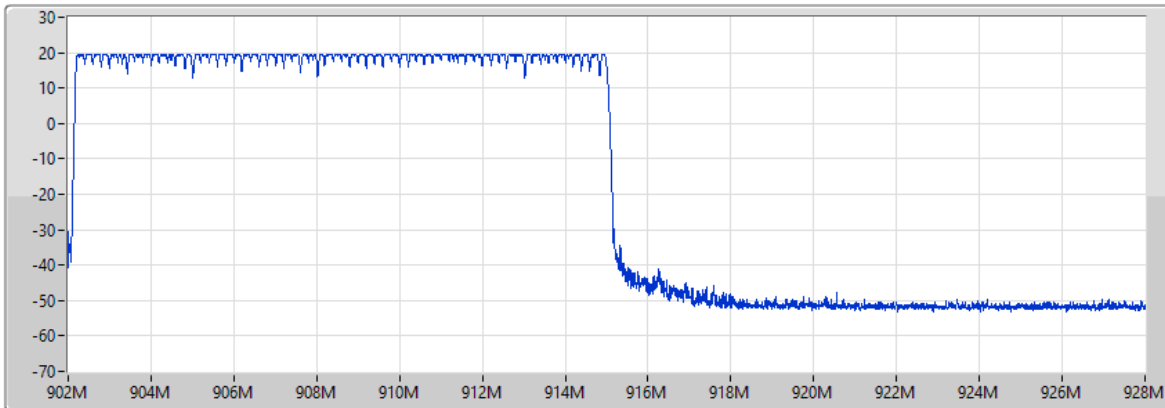
Mode	Result	Hopping No	Limit
LoRa (125kHz)	-	-	-
908.5MHz	Pass	64	50

902-928MHz_LoRa (125kHz)

Hopping-FS

908.5MHz

18/04/2025



Port 1 

Hopping No
64

Span (Hz)
26M

RBW (Hz)
100k

VBW (Hz)
300kHz

Sweep (s)
8.01ms

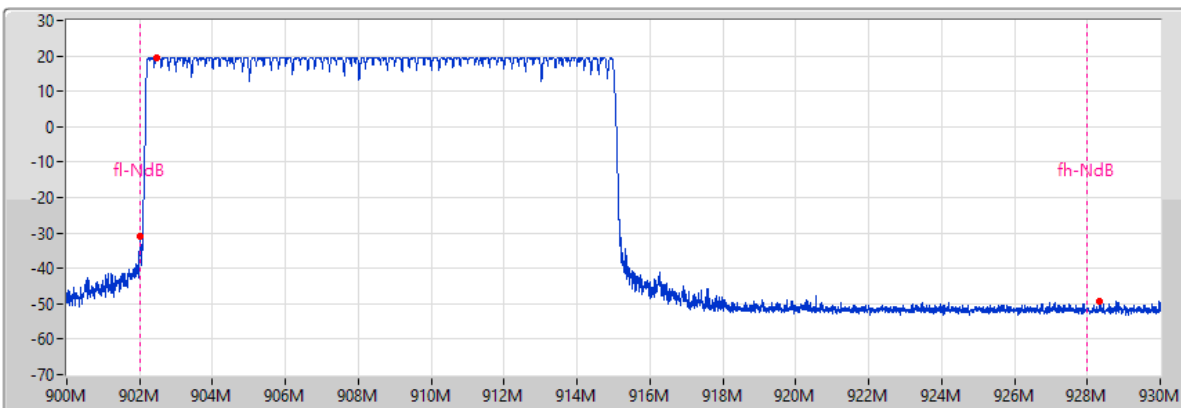
Detector
Peak

902-928MHz_LoRa (125kHz)

908.5MHz

Hopping Ch Bandedge (Non-restricted Band)

18/04/2025



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)
-0.44	902.4525M	19.56	901.99875M	-31.05	928.34625M	-49.48



Summary

Mode	Dwell (s)
902-928MHz	
LoRa (125kHz)	53.595m



Result

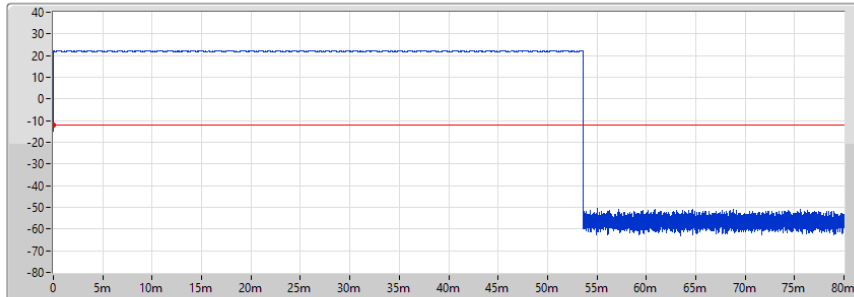
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
LoRa (125kHz)	-	-	-	-	-
908.5MHz	Pass	20	53.595m	400m	53.595m

902-928MHz_LoRa (125kHz)

Dwell-FS

908.5MHz

18/04/2025



Port 1 

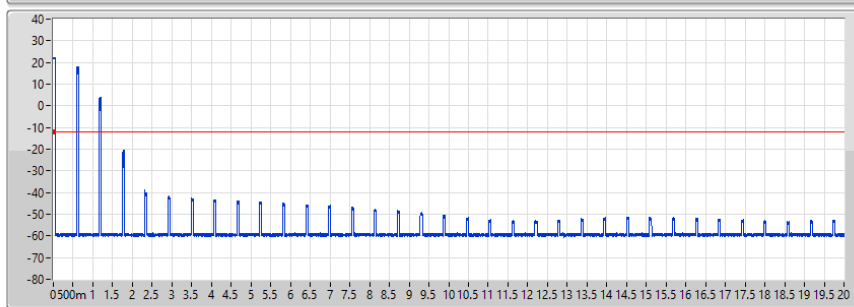
Ch Freq (Hz)
908.5M

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
80m

TX Time (s)
53.595m



Port 1 

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
20	53.595m	400m	53.595m

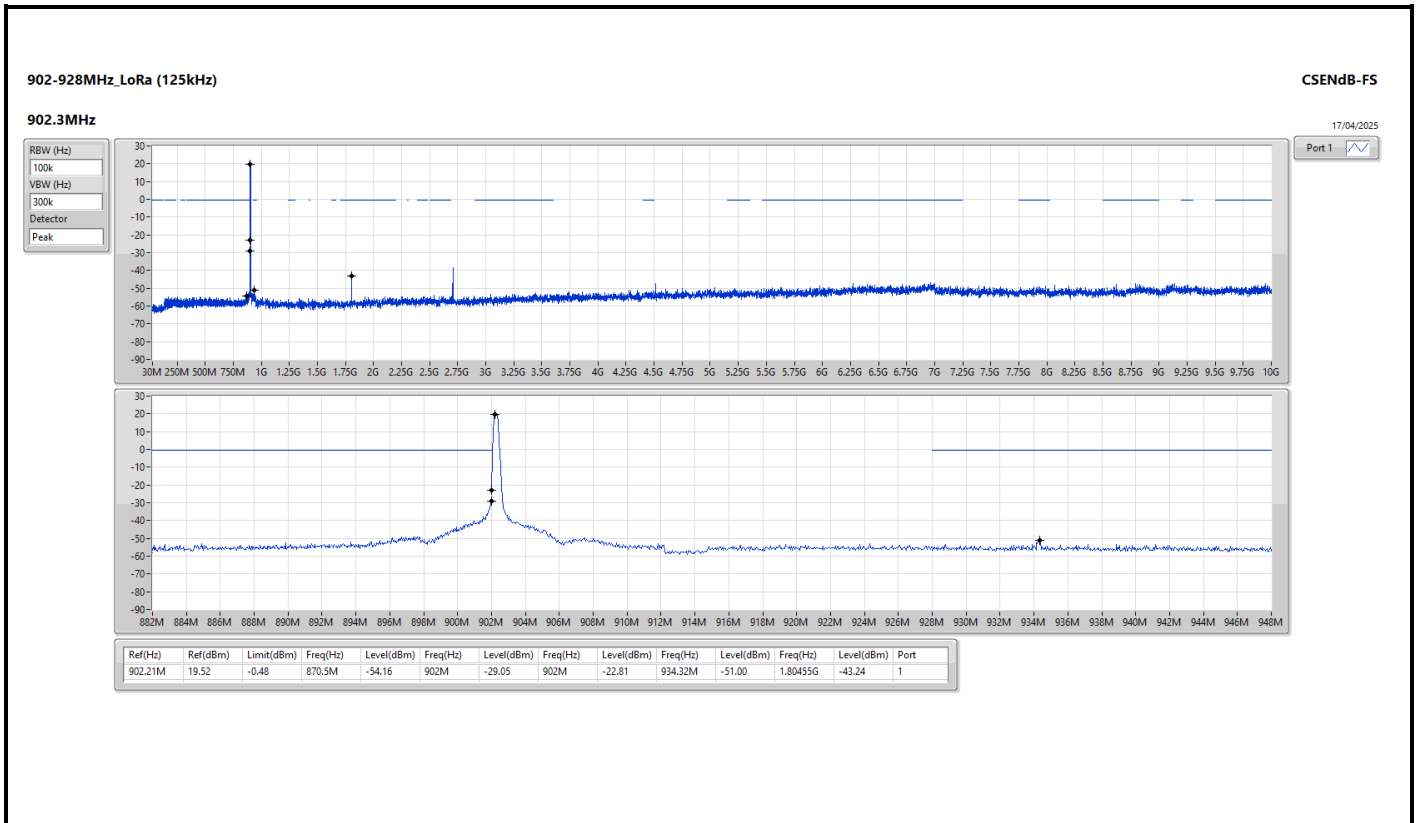


Summary

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	902.21M	19.52	-0.48	870.5M	-54.16	902M	-29.05	902M	-22.81	934.32M	-51.00	1.80455G	-43.24	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	902.21M	19.52	-0.48	870.5M	-54.16	902M	-29.05	902M	-22.81	934.32M	-51.00	1.80455G	-43.24	1
908.5MHz	Pass	908.45M	19.51	-0.49	546.74M	-53.60	901.8M	-51.07	902M	-51.67	940.52M	-51.70	1.81699G	-39.55	1
914.9MHz	Pass	914.84M	19.40	-0.60	188.47M	-54.63	882.88M	-50.92	902M	-53.73	946.96M	-51.80	1.82944G	-38.32	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	927.27M	15.86	-4.14	865.81M	-55.63	895.64M	-52.41	928M	-4.38	928M	-4.75	1.85433G	-44.60	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	923.06M	20.25	0.25	288.16M	-52.85	891.28M	-49.39	928M	-44.22	928M	-43.28	1.84641G	-32.38	1
927.5MHz	Pass	927.27M	15.86	-4.14	865.81M	-55.63	895.64M	-52.41	928M	-4.38	928M	-4.75	1.85433G	-44.60	1

902-928MHz LoRa (500kHz)

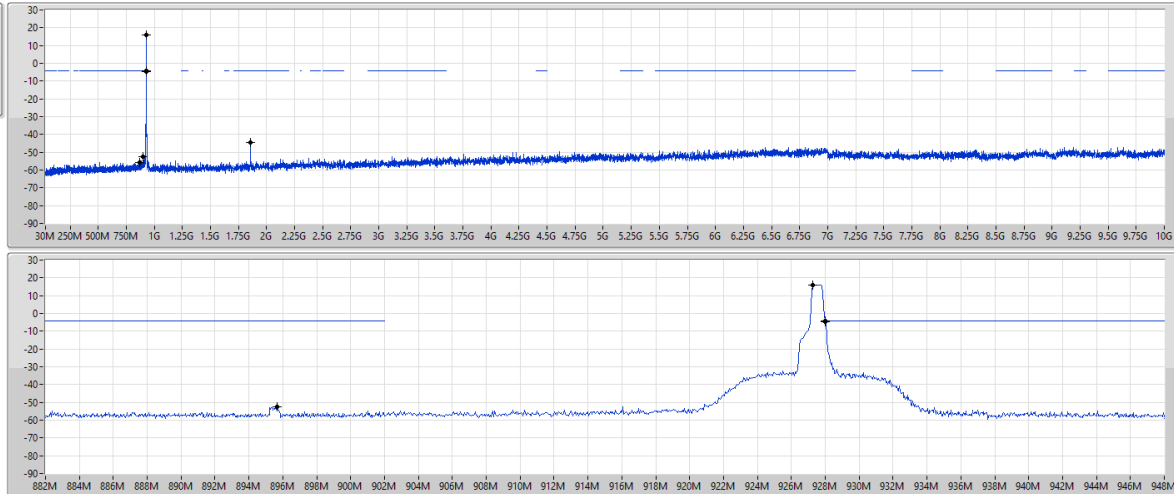
CSEndB-DTS

927.5MHz

17/04/2025

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
927.27M	15.86	-4.14	865.81M	-55.63	895.64M	-52.41	928M	-4.38	928M	-4.75	1.85433G	-44.60	1



Summary

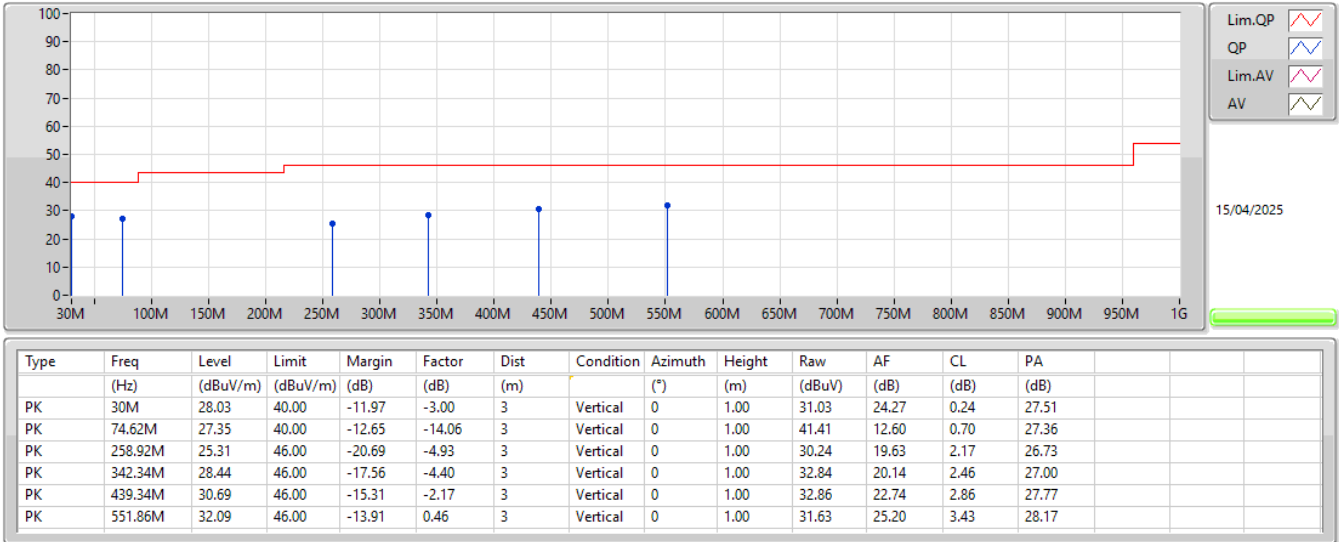
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
902-928MHz	-	-	-	-	-	-	-	-	-	-
LoRa (125kHz)	Pass	PK	30M	28.03	40.00	-11.97	3	Vertical	0	1.00

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	PK	30M	28.03	40.00	-11.97	3	Vertical	0	1.00
902.3MHz	Pass	PK	74.62M	27.35	40.00	-12.65	3	Vertical	0	1.00
902.3MHz	Pass	PK	258.92M	25.31	46.00	-20.69	3	Vertical	0	1.00
902.3MHz	Pass	PK	342.34M	28.44	46.00	-17.56	3	Vertical	0	1.00
902.3MHz	Pass	PK	439.34M	30.69	46.00	-15.31	3	Vertical	0	1.00
902.3MHz	Pass	PK	551.86M	32.09	46.00	-13.91	3	Vertical	0	1.00
902.3MHz	Pass	PK	30M	26.21	40.00	-13.79	3	Horizontal	360	1.00
902.3MHz	Pass	PK	107.6M	25.98	43.50	-17.52	3	Horizontal	360	1.00
902.3MHz	Pass	PK	163.86M	24.84	43.50	-18.66	3	Horizontal	360	1.00
902.3MHz	Pass	PK	286.08M	26.78	46.00	-19.22	3	Horizontal	360	1.00
902.3MHz	Pass	PK	392.78M	28.16	46.00	-17.84	3	Horizontal	360	1.00
902.3MHz	Pass	PK	540.22M	31.81	46.00	-14.19	3	Horizontal	360	1.00

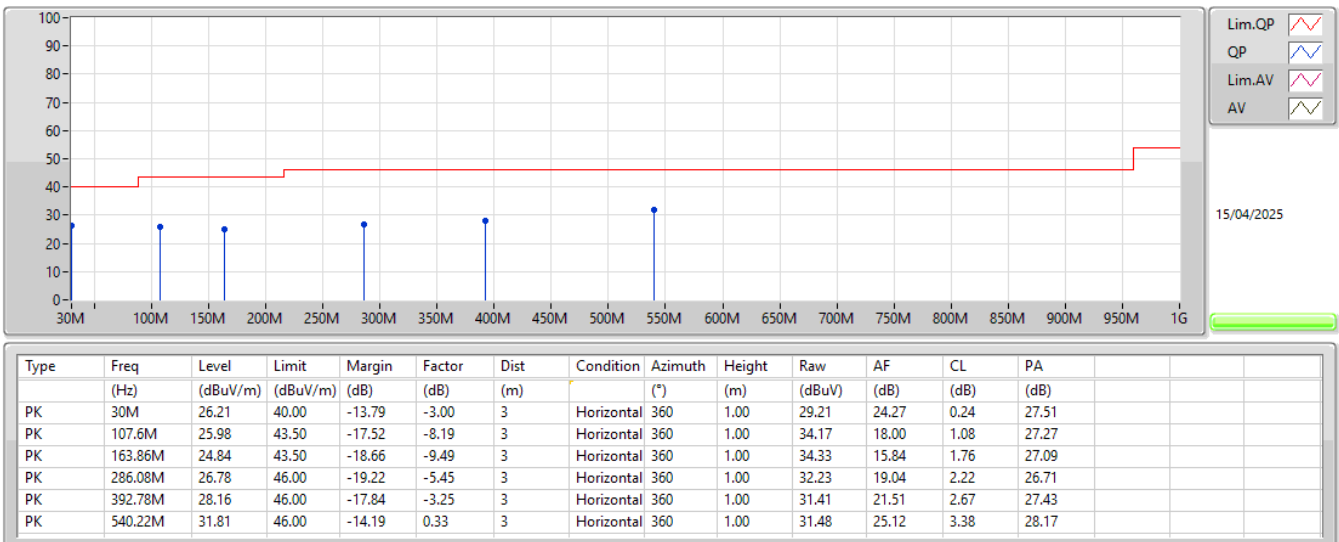
902-928MHz_LoRa (125kHz)

902.3MHz_Adapter



902-928MHz_LoRa (125kHz)

902.3MHz_Adapter





Summary

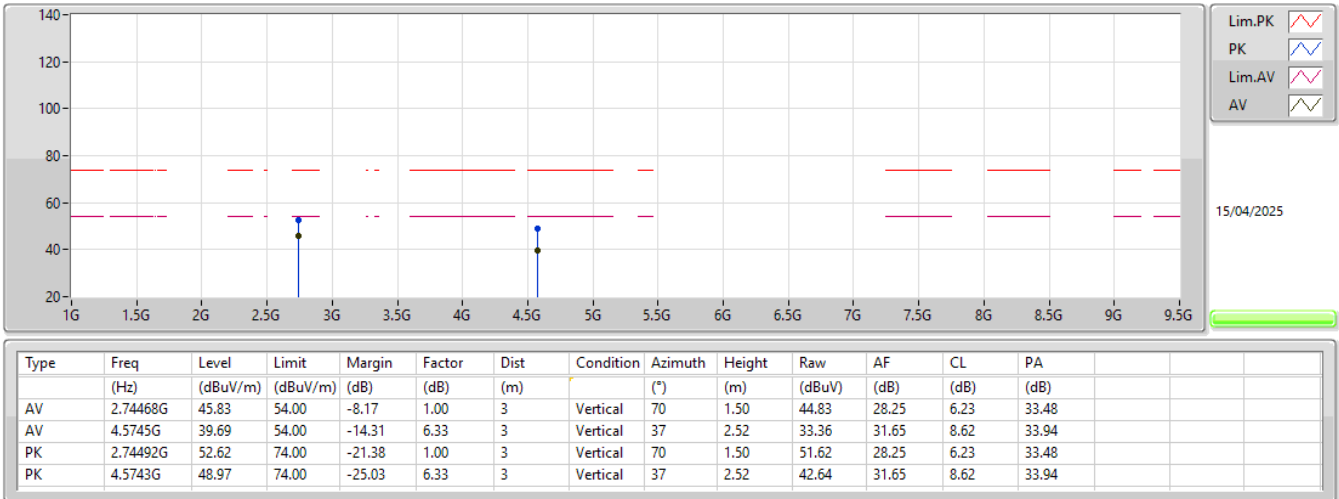
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
902-928MHz	-	-	-	-	-	-	-	-	-	-
LoRa (125kHz)	Pass	AV	2.74468G	45.83	54.00	-8.17	3	Vertical	70	1.50
LoRa (500kHz)	Pass	AV	2.78252G	44.13	54.00	-9.87	3	Vertical	182	1.46

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	2.7071G	45.18	54.00	-8.82	3	Vertical	194	1.64
902.3MHz	Pass	AV	4.51168G	39.94	54.00	-14.06	3	Vertical	33	2.62
902.3MHz	Pass	PK	2.70698G	52.18	74.00	-21.82	3	Vertical	194	1.64
902.3MHz	Pass	PK	4.51152G	51.37	74.00	-22.63	3	Vertical	33	2.62
902.3MHz	Pass	AV	2.7071G	43.84	54.00	-10.16	3	Horizontal	306	1.10
902.3MHz	Pass	AV	4.51142G	39.88	54.00	-14.12	3	Horizontal	164	2.87
902.3MHz	Pass	PK	2.70686G	51.06	74.00	-22.94	3	Horizontal	306	1.10
902.3MHz	Pass	PK	4.5118G	50.92	74.00	-23.08	3	Horizontal	164	2.87
908.5MHz	Pass	AV	2.72548G	42.47	54.00	-11.53	3	Vertical	74	2.44
908.5MHz	Pass	AV	4.54248G	44.44	54.00	-9.56	3	Vertical	33	2.47
908.5MHz	Pass	PK	2.72566G	52.03	74.00	-21.97	3	Vertical	74	2.44
908.5MHz	Pass	PK	4.54272G	51.09	74.00	-22.91	3	Vertical	33	2.47
908.5MHz	Pass	AV	2.72548G	42.68	54.00	-11.32	3	Horizontal	307	1.00
908.5MHz	Pass	AV	4.5425G	42.71	54.00	-11.29	3	Horizontal	164	2.80
908.5MHz	Pass	PK	2.72554G	51.56	74.00	-22.44	3	Horizontal	307	1.00
908.5MHz	Pass	PK	4.54226G	49.75	74.00	-24.25	3	Horizontal	164	2.80
914.9MHz	Pass	AV	2.74468G	45.83	54.00	-8.17	3	Vertical	70	1.50
914.9MHz	Pass	AV	4.5745G	39.69	54.00	-14.31	3	Vertical	37	2.52
914.9MHz	Pass	PK	2.74492G	52.62	74.00	-21.38	3	Vertical	70	1.50
914.9MHz	Pass	PK	4.5743G	48.97	74.00	-25.03	3	Vertical	37	2.52
914.9MHz	Pass	AV	2.7447G	42.93	54.00	-11.07	3	Horizontal	307	1.00
914.9MHz	Pass	AV	4.57448G	40.17	54.00	-13.83	3	Horizontal	156	2.70
914.9MHz	Pass	PK	2.7447G	51.75	74.00	-22.25	3	Horizontal	307	1.00
914.9MHz	Pass	PK	4.5749G	48.09	74.00	-25.91	3	Horizontal	156	2.70
LoRa (500kHz)	-	-	-	-	-	-	-	-	-	-
923.3MHz	Pass	AV	2.77026G	42.58	54.00	-11.42	3	Vertical	183	1.57
923.3MHz	Pass	AV	4.61654G	37.00	54.00	-17.00	3	Vertical	38	2.79
923.3MHz	Pass	PK	2.76928G	51.77	74.00	-22.23	3	Vertical	183	1.57
923.3MHz	Pass	PK	4.6165G	49.76	74.00	-24.24	3	Vertical	38	2.79
923.3MHz	Pass	AV	2.76962G	43.18	54.00	-10.82	3	Horizontal	67	1.33
923.3MHz	Pass	AV	4.61654G	34.17	54.00	-19.83	3	Horizontal	160	1.50
923.3MHz	Pass	PK	2.77034G	51.48	74.00	-22.52	3	Horizontal	67	1.33
923.3MHz	Pass	PK	4.61632G	47.29	74.00	-26.71	3	Horizontal	160	1.50
927.5MHz	Pass	AV	2.78252G	44.13	54.00	-9.87	3	Vertical	182	1.46
927.5MHz	Pass	AV	4.63742G	36.92	54.00	-17.08	3	Vertical	37	2.82
927.5MHz	Pass	PK	2.7819G	51.55	74.00	-22.45	3	Vertical	182	1.46
927.5MHz	Pass	PK	4.63846G	49.82	74.00	-24.18	3	Vertical	37	2.82
927.5MHz	Pass	AV	2.78248G	44.12	54.00	-9.88	3	Horizontal	68	1.22
927.5MHz	Pass	AV	4.64218G	31.43	54.00	-22.57	3	Horizontal	302	2.75
927.5MHz	Pass	PK	2.78282G	51.46	74.00	-22.54	3	Horizontal	68	1.22
927.5MHz	Pass	PK	4.63684G	48.81	74.00	-25.19	3	Horizontal	302	2.75

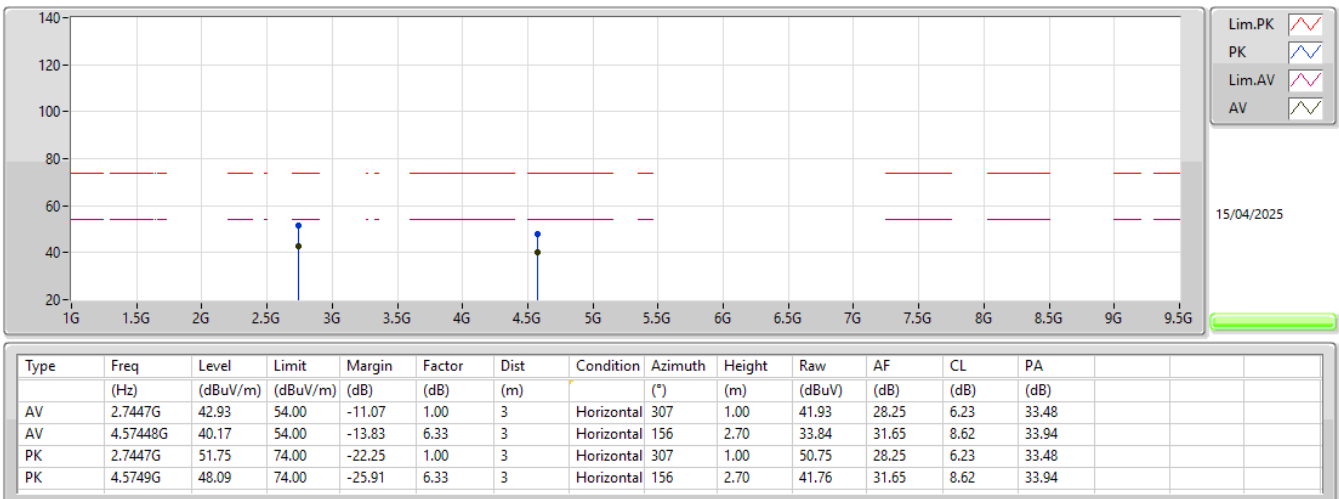
902-928MHz_LoRa (125kHz)

914.9MHz_TX



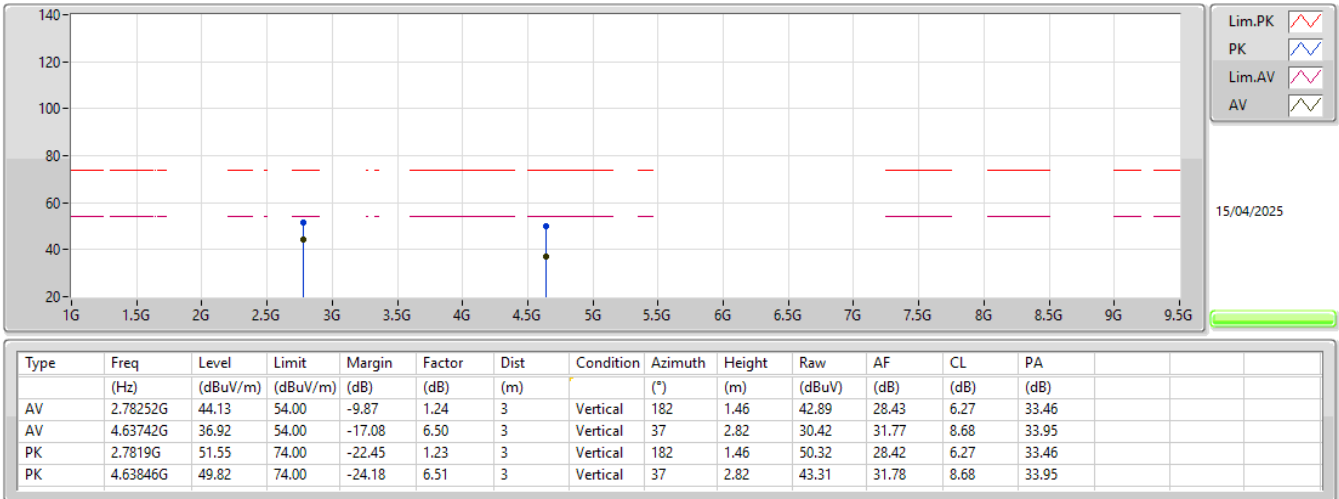
902-928MHz_LoRa (125kHz)

914.9MHz_TX



902-928MHz_LoRa (500kHz)

927.5MHz_TX



902-928MHz_LoRa (500kHz)

927.5MHz_TX

