FCC Radio Test Report

FCC ID	:	**TKZMM610X-001**
Equipment	:	**Wi-Fi HaLow Module**
Brand Name	:	**AsiaRF**
Model Name	:	**MM610X-001**
Applicant	:	**AsiaRF Co., Ltd. 1F, 7, Houde Street, Yonghe Dist. New Taipei City Taiwan 23455**
Manufacturer	:	**AsiaRF Co., Ltd. 1F, 7, Houde Street, Yonghe Dist. New Taipei City Taiwan 23455**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on May 23, 2023, and testing was started from Jun. 10, 2023 and completed on Jun. 15, 2023. . 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

Report No.	Version	Description	Issued Date
FR2D1904AF	01	Initial issue of report	Jul. 13, 2023

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	FCC 15.203
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	≥500kHz
3.3	15.247(b)	Maximum Conducted Output Power	PASS	Power [dBm]:30
3.4	15.247(e)	Power Spectral Density	PASS	PSD [dBm/3kHz]:8
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	Non-Restricted Bands: > 30 dBc
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	Restricted Bands: FCC 15.209

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: Amber Chiu

General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Modulation	Ch. Frequency (MHz)	BWch (MHz)	Channel Number
902-928	OFDM	903.5-926.5	1	3-49 [24]
902-928	OFDM	905-925	2	6-46 [11]
902-928	OFDM	906-922	4	8-40 [5]
902-928	OFDM	908-916	8	12-28 [2]

Band	Mode	BWch (MHz)	Nant
902-928MHz	SRD	1	1TX
902-928MHz	SRD	2	1TX
902-928MHz	SRD	4	1TX
902-928MHz	SRD	8	1TX

Bandwidth									
1 MHz									
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
3	903.5	13	908.5	23	913.5	33	918.5	43	923.5
5	904.5	15	909.5	25	914.5	35	919.5	45	924.5
7	905.5	17	910.5	27	915.5	37	920.5	47	925.5
9	906.5	19	911.5	29	916.5	39	921.5	49	926.5
11	907.5	21	912.5	31	917.5	41	922.5	-	-

Bandwidth									
2 MHz						4 MHz		8 MHz	
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
6	905	26	915	46	925	8	906	12	908
10	907	30	917	-	-	16	910	28	916
14	909	34	919	-	-	24	914		
18	911	38	921	-	-	32	918		
22	913	42	923	-	-	40	922		

Note:
- SRD uses a combination of OFDM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	AsiaRF Co., Ltd.	ANTSM900030040001	Dipole antenna	I-PEX	2.5

Note 1: The EUT has one antenna.

Note 2: The antenna mentioned above will not be sold with the EUT in the market.

For SRD function:

For SRD mode (1TX/1RX)

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

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter / Host system			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point
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 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
SRD_1MHz_Nss1_1TX	0.971	0.13	20.244m	100
SRD_2MHz_Nss1_1TX	0.933	0.3	12.684m	100
SRD_4MHz_Nss1_1TX	0.884	0.54	6.242m	300
SRD_8MHz_Nss1_1TX	0.789	1.03	3.042m	1k

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

1.3 Testing Location Information

Test Lab.：Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
(TAF: 3785**)**	**TEL:** 886-3-327-3456		**FAX:** 886-3-327-0973	
Test site Designation No. TW1190 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
AC Conduction	CO04-HY	Lego Lin	23.5~24.6°C / 52~56%	14/Jun/2023
RF Conducted	TH01-HY	Peng Huang	22.5~22.8°C / 51~52%	14/Jun/2023~15/Jun/2023
Radiated	03CH03-HY	Simon Cheng	22.9~23.1°C / 48~53%	10/Jun/2023~12/Jun/2023
☐ Wen 33rd.St.	**ADD:** No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
(TAF: 3785**)**	**TEL:** 886-3-318-0787		**FAX:** 886-3-318-0287	
Test site Designation No. TW0008 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	120V

2.2 Test Channel Mode

Test Software Version	PuTTY Release 0.72

Mode	Power Setting
SRD_1MHz_Nss1_1TX	-
903.5MHz	Default
914.5MHz	Default
926.5MHz	Default
SRD_2MHz_Nss1_1TX	-
905MHz	Default
915MHz	Default
925MHz	Default
SRD_4MHz_Nss1_1TX	-
906MHz	Default
914MHz	Default
922MHz	Default
SRD_8MHz_Nss1_1TX	-
908MHz	Default
916MHz	Default

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
Operating Mode	CTX
1	Fixture Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

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

2.4 Support Equipment

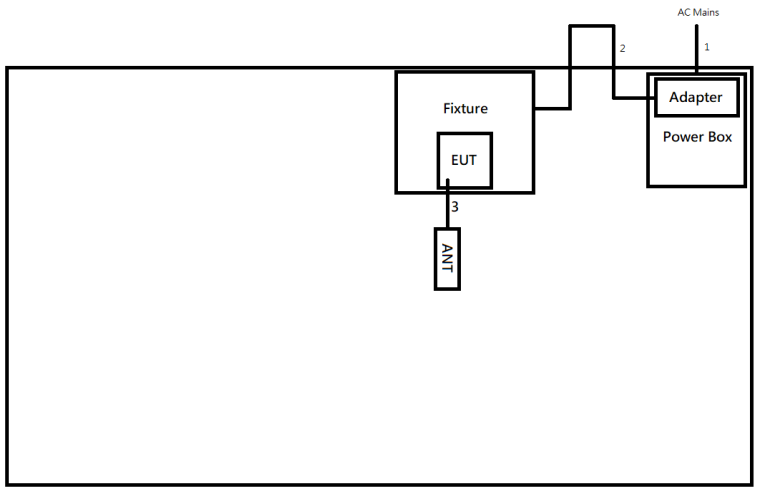
Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Fixture	AsiaRF	AP7688-WHM	-	Provided by Customer
2	Antenna	AsiaRF Co., Ltd.	ANTSM90003004001	-	Provided by Customer
3	Adapter	Idrc	CW1201000	-	Provided by Customer

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Fixture	AsiaRF	AP7688-WHM	-	Provided by Customer
4	Adapter	Idrc	CW1201000	-	Provided by Customer

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Fixture	AsiaRF	AP7688-WHM	-	Provided by Customer
2	Antenna	AsiaRF Co., Ltd.	ANTSM90003004001	-	Provided by Customer
3	Adapter	Idrc	CW1201000	-	Provided by Customer

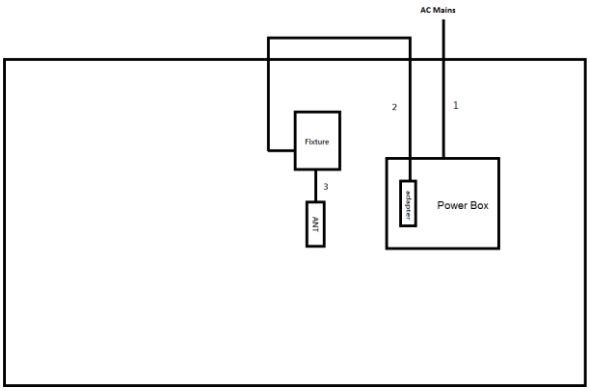
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.5	-
3	Antenna cable	No	0.1	-

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	Antenna cable	No	0.1	-

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

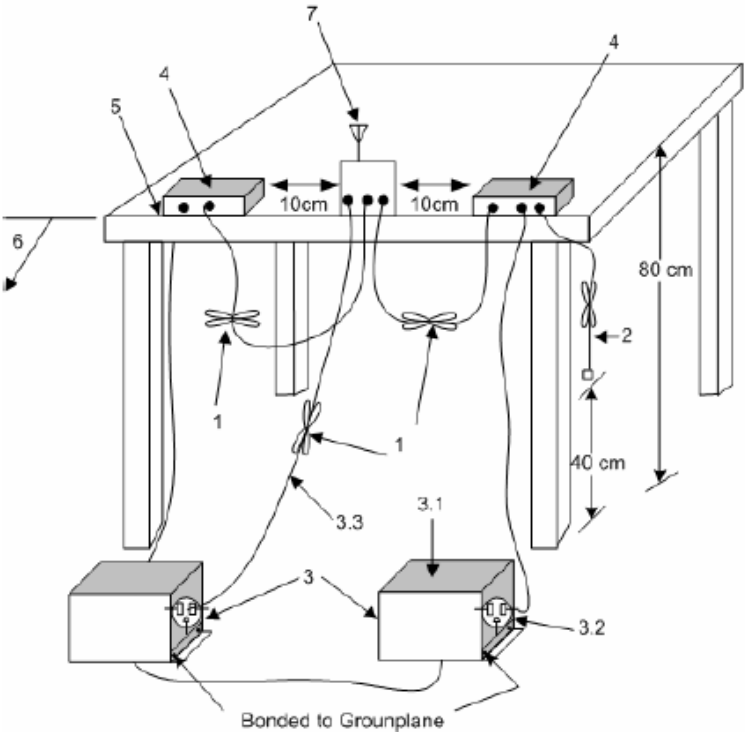
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

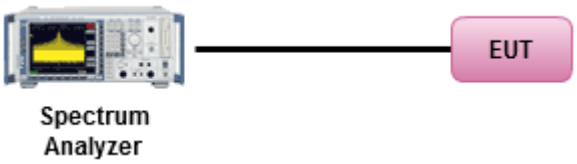
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup

Emission Bandwidth
 Spectrum Analyzer

3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit			
	▪ If G_{TX} ≤ 6 dBi, then P_{Out} ≤ 30 dBm (1 W)		
	▪ Point-to-multipoint systems (P2M): If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6) dBm		
	▪ Point-to-point systems (P2P): If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 dBm		
	▪ Smart antenna system (SAS):		
		- Single beam: If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 dBm	
		- Overlap beam: If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 dBm	
		- Aggregate power on all beams: If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 + 8dB dBm	
e.i.r.p. Power Limit:			
▪ 2400-2483.5 MHz Band			
	▪ Point-to-multipoint systems (P2M): P_{eirp} ≤ 36 dBm (4 W)		
	▪ Point-to-point systems (P2P): P_{eirp} ≤ MAX(36, [P_{Out} + G_{TX}]) dBm		
	▪ Smart antenna system (SAS)		
		- Single beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm	
		- Overlap beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm	
		- Aggregate power on all beams: P_{eirp} ≤ MAX(36, [P_{Out} + G_{TX} + 8]) dBm	
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.			

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 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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (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

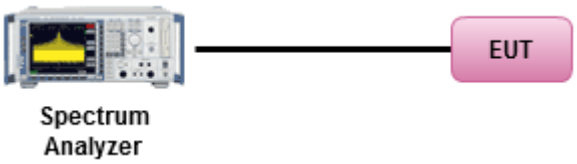
3.4.2 Measuring Instruments

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 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

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 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 PSD 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 PSD level.	

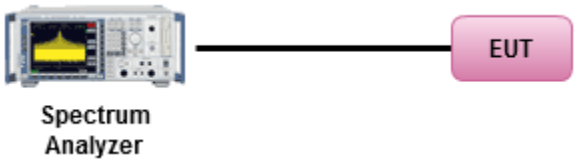
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
▪ Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands


3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 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.

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

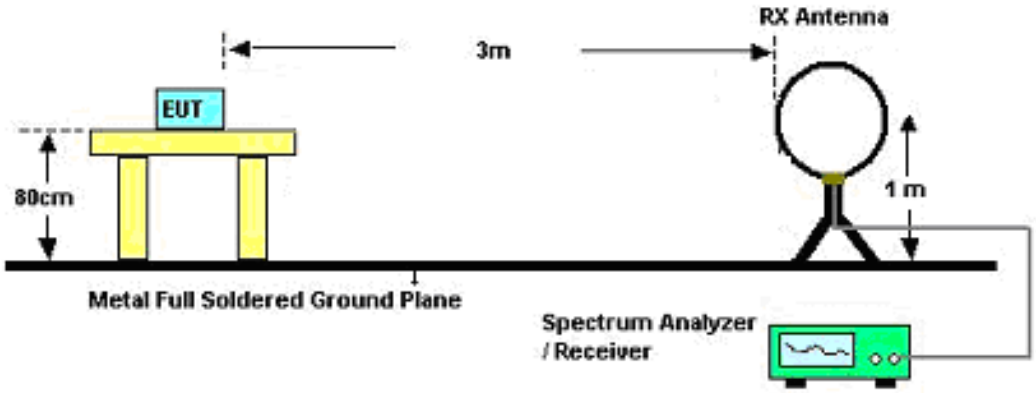
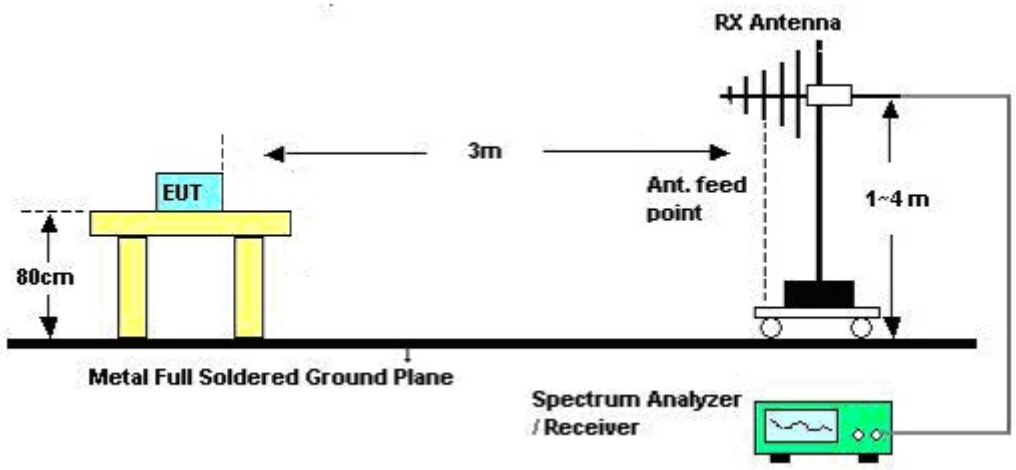
Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).

3.6.4 Measurement Results Calculation

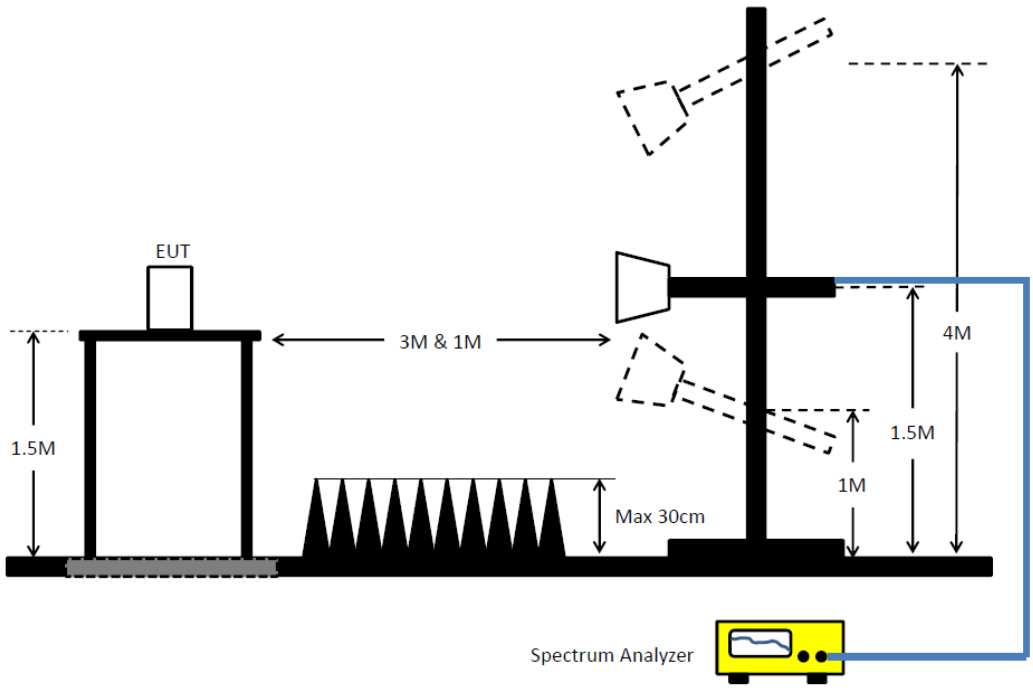
The measured Level is calculated using:

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

3.6.5 Test Setup

Transmitter Radiated Emissions
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



3.6.6 Transmitter Radiated Unwanted Emissions (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.

3.6.7 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer / Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	10/Apr/2023	09/Apr/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	15/Feb/2023	14/Feb/2024
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	15/Feb/2023	14/Feb/2024
SENSE-15247_FS	Sporton	V5.11.1	N/A	N/A	N/A	N/A

Instrument for AC Conduction

Instrument	Manufacturer / Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102318	9kHz ~ 3.6GHz	29/Dec/2022	28/Dec/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	16/Feb/2023	15/Feb/2024
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	28/Feb/2023	27/Feb/2024
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	25/Oct/2022	24/Oct/2023
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required.

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	30MHz~1GHz 3m	01/Aug/2022	31/Jul/2023
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	02/Aug/2022	01/Aug/2023
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	26/Oct/2022	25/Oct/2023
Amplifier	Aglient	8447D	2944A08033	10kHz~1.3GHz	07/Apr/2023	06/Apr/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	16/Oct/2022	15/Oct/2023
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	13/Jun/2022	12/Jun/2023
RF Cable-R03m	Jye Bao	RG142	03CH03-cable-02	30MHz~1GHz	23/Mar/2023	22/Mar/2024
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	03CH03-cable-01	1GHz~40GHz	27/Jul/2022	26/Jul/2023
Microwave Premplifier	HUBER+SUHNER	8449B	3008A02326	1GHz~26.5GHz	14/Jul/2022	13/Jul/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	23/Mar/2023	22/Mar/2024
EMI Test Receiver	R&S	ESR	102318	9kHz~3.6GHz	29/Dec/2022	28/Dec/2023
SENSE-15.247_FS	Sporton	Sporton	v5.11	NA	NA	NA

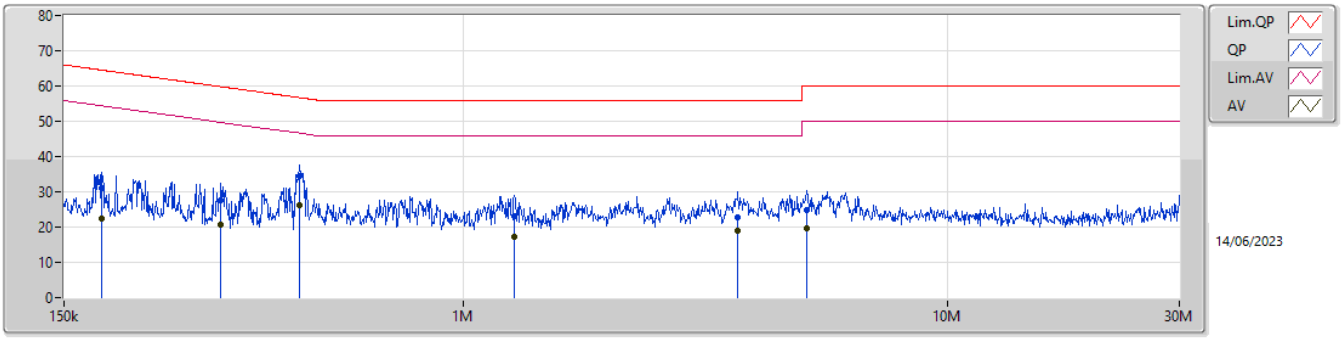
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	458.702k	26.16	46.71	-20.55	Line

Result

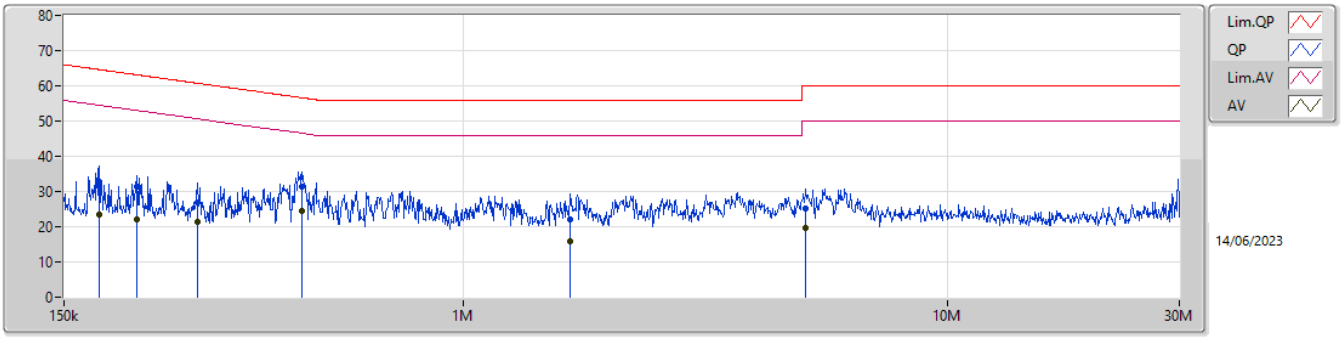
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	179.518k	31.09	64.51	-33.42	Line	-
Mode 1	Pass	AV	179.518k	22.38	54.51	-32.13	Line	-
Mode 1	Pass	QP	316.443k	27.42	59.80	-32.38	Line	-
Mode 1	Pass	AV	316.443k	20.75	49.80	-29.05	Line	-
Mode 1	Pass	QP	458.702k	34.60	56.71	-22.11	Line	-
Mode 1	Pass	AV	458.702k	26.16	46.71	-20.55	Line	-
Mode 1	Pass	QP	1.275M	23.11	56.00	-32.89	Line	-
Mode 1	Pass	AV	1.275M	17.09	46.00	-28.91	Line	-
Mode 1	Pass	QP	3.686M	22.93	56.00	-33.07	Line	-
Mode 1	Pass	AV	3.686M	18.82	46.00	-27.18	Line	-
Mode 1	Pass	QP	5.113M	24.99	60.00	-35.01	Line	-
Mode 1	Pass	AV	5.113M	19.74	50.00	-30.26	Line	-
Mode 1	Pass	QP	177.381k	32.75	64.60	-31.85	Neutral	-
Mode 1	Pass	AV	177.381k	23.30	54.60	-31.30	Neutral	-
Mode 1	Pass	QP	211.442k	31.26	63.15	-31.89	Neutral	-
Mode 1	Pass	AV	211.442k	21.99	53.15	-31.16	Neutral	-
Mode 1	Pass	QP	282.977k	26.78	60.72	-33.94	Neutral	-
Mode 1	Pass	AV	282.977k	21.39	50.72	-29.33	Neutral	-
Mode 1	Pass	QP	464.229k	31.53	56.61	-25.08	Neutral	-
Mode 1	Pass	AV	464.229k	24.42	46.61	-22.19	Neutral	-
Mode 1	Pass	QP	1.659M	22.24	56.00	-33.76	Neutral	-
Mode 1	Pass	AV	1.659M	15.87	46.00	-30.13	Neutral	-
Mode 1	Pass	QP	5.093M	25.01	60.00	-34.99	Neutral	-
Mode 1	Pass	AV	5.093M	19.75	50.00	-30.25	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	179.518k	31.09	64.51	-33.42	19.61	Line	-	11.48	9.65	0.03	9.93
AV	179.518k	22.38	54.51	-32.13	19.61	Line	-	2.77	9.65	0.03	9.93
QP	316.443k	27.42	59.80	-32.38	19.63	Line	-	7.79	9.64	0.04	9.95
AV	316.443k	20.75	49.80	-29.05	19.63	Line	-	1.12	9.64	0.04	9.95
QP	458.702k	34.60	56.71	-22.11	19.64	Line	-	14.96	9.64	0.04	9.96
AV	458.702k	26.16	46.71	-20.55	19.64	Line	-	6.52	9.64	0.04	9.96
QP	1.275M	23.11	56.00	-32.89	19.66	Line	-	3.45	9.66	0.06	9.94
AV	1.275M	17.09	46.00	-28.91	19.66	Line	-	-2.57	9.66	0.06	9.94
QP	3.686M	22.93	56.00	-33.07	19.75	Line	-	3.18	9.70	0.12	9.93
AV	3.686M	18.82	46.00	-27.18	19.75	Line	-	-0.93	9.70	0.12	9.93
QP	5.113M	24.99	60.00	-35.01	19.81	Line	-	5.18	9.73	0.14	9.94
AV	5.113M	19.74	50.00	-30.26	19.81	Line	-	-0.07	9.73	0.14	9.94

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	177.381k	32.75	64.60	-31.85	19.58	Neutral	-	13.17	9.62	0.03	9.93
AV	177.381k	23.30	54.60	-31.30	19.58	Neutral	-	3.72	9.62	0.03	9.93
QP	211.442k	31.26	63.15	-31.89	19.58	Neutral	-	11.68	9.62	0.03	9.93
AV	211.442k	21.99	53.15	-31.16	19.58	Neutral	-	2.41	9.62	0.03	9.93
QP	282.977k	26.78	60.72	-33.94	19.62	Neutral	-	7.16	9.63	0.04	9.95
AV	282.977k	21.39	50.72	-29.33	19.62	Neutral	-	1.77	9.63	0.04	9.95
QP	464.229k	31.53	56.61	-25.08	19.63	Neutral	-	11.90	9.63	0.04	9.96
AV	464.229k	24.42	46.61	-22.19	19.63	Neutral	-	4.79	9.63	0.04	9.96
QP	1.659M	22.24	56.00	-33.76	19.67	Neutral	-	2.57	9.66	0.07	9.94
AV	1.659M	15.87	46.00	-30.13	19.67	Neutral	-	-3.80	9.66	0.07	9.94
QP	5.093M	25.01	60.00	-34.99	19.79	Neutral	-	5.22	9.71	0.14	9.94
AV	5.093M	19.75	50.00	-30.25	19.79	Neutral	-	-0.04	9.71	0.14	9.94

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
SRD_1MHz_Nss1_1TX	832.5k	862.069k	862KF1D	818.75k	840.83k
SRD_2MHz_Nss1_1TX	1.74M	1.817M	1M82F1D	1.708M	1.764M
SRD_4MHz_Nss1_1TX	3.595M	3.683M	3M68F1D	3.555M	3.628M
SRD_8MHz_Nss1_1TX	7.53M	7.626M	7M63F1D	7.49M	7.526M

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

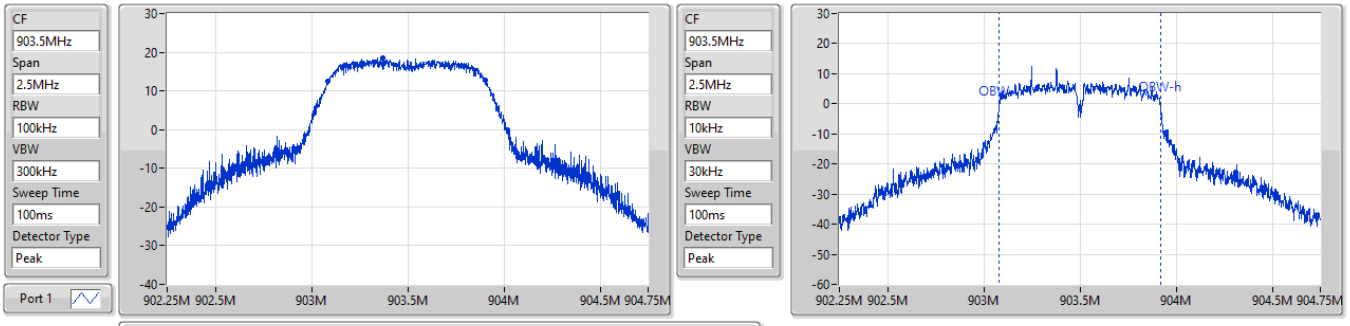
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
SRD_1MHz_Nss1_1TX	-	-	-	-
903.5MHz	Pass	500k	818.75k	840.83k
914.5MHz	Pass	500k	832.5k	862.069k
926.5MHz	Pass	500k	818.75k	847.076k
SRD_2MHz_Nss1_1TX	-	-	-	-
905MHz	Pass	500k	1.708M	1.764M
915MHz	Pass	500k	1.735M	1.817M
925MHz	Pass	500k	1.74M	1.789M
SRD_4MHz_Nss1_1TX	-	-	-	-
906MHz	Pass	500k	3.58M	3.628M
914MHz	Pass	500k	3.555M	3.683M
922MHz	Pass	500k	3.595M	3.643M
SRD_8MHz_Nss1_1TX	-	-	-	-
908MHz	Pass	500k	7.49M	7.526M
916MHz	Pass	500k	7.53M	7.626M

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

902-928MHz_SRD_1MHz_Nss1_1TX **EBW-DTS**

903.5MHz

15/06/2023

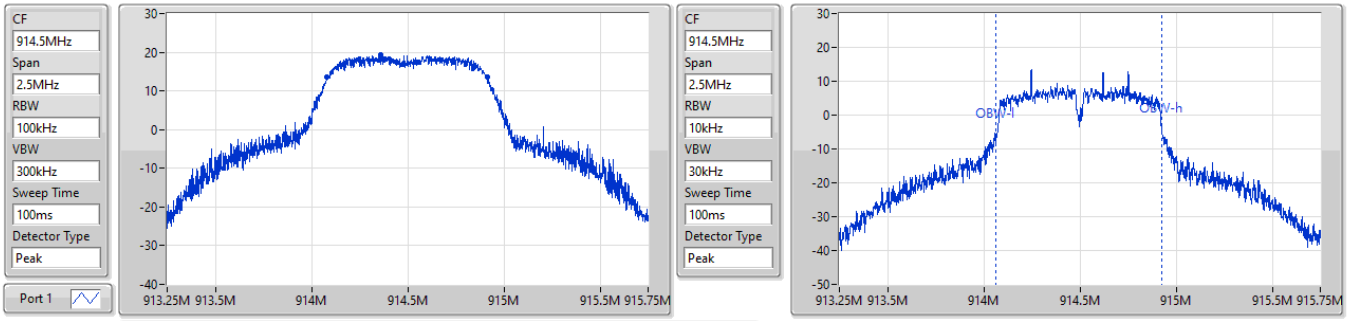


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
818.75k	903.0875M	903.90625M	840.83k	903.077711M	903.918541M	500k	1

902-928MHz_SRD_1MHz_Nss1_1TX **EBW-DTS**

914.5MHz

14/06/2023

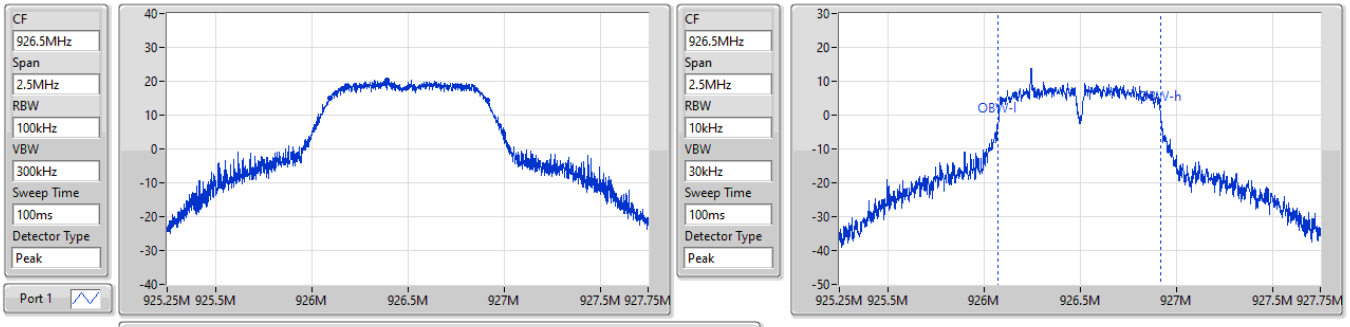


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
832.5k	914.08M	914.9125M	862.069k	914.061469M	914.923538M	500k	1

902-928MHz_SRD_1MHz_Nss1_1TX **EBW-DTS**

926.5MHz

15/06/2023

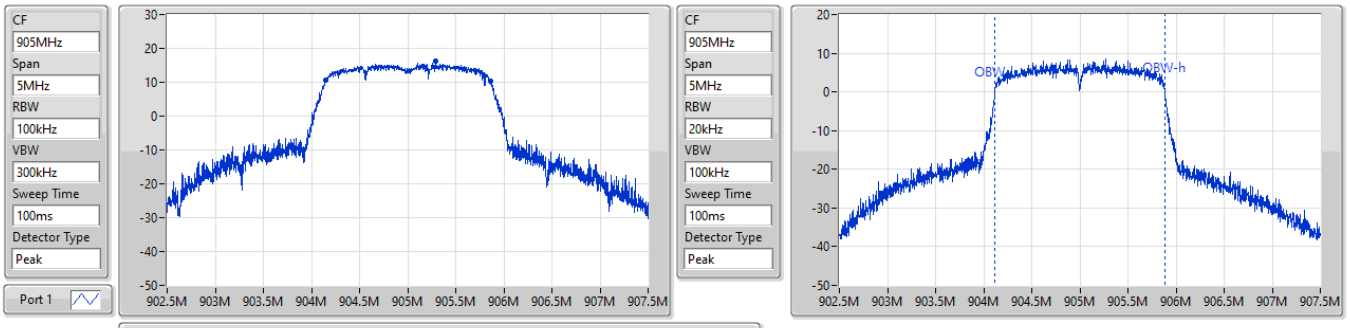


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
818.75k	926.09375M	926.9125M	847.076k	926.073963M	926.921039M	500k	1

902-928MHz_SRD_2MHz_Nss1_1TX **EBW-DTS**

905MHz

15/06/2023

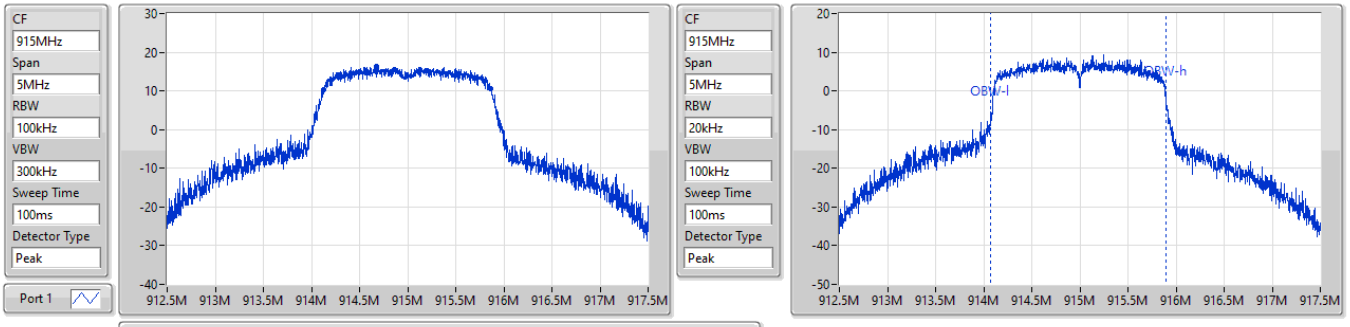


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.708M	904.15M	905.8575M	1.764M	904.115442M	905.87956M	500k	1

902-928MHz_SRD_2MHz_Nss1_1TX **EBW-DTS**

915MHz

14/06/2023

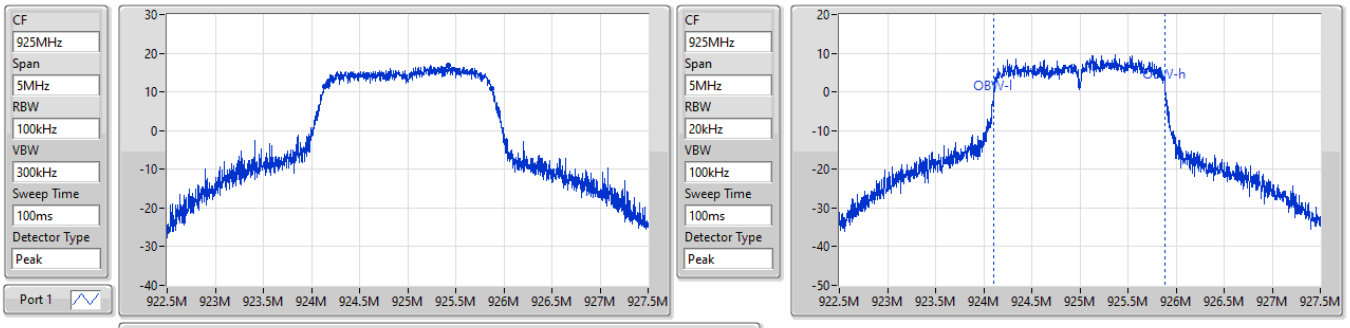


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.735M	914.13M	915.865M	1.817M	914.075462M	915.892054M	500k	1

902-928MHz_SRD_2MHz_Nss1_1TX **EBW-DTS**

925MHz

15/06/2023

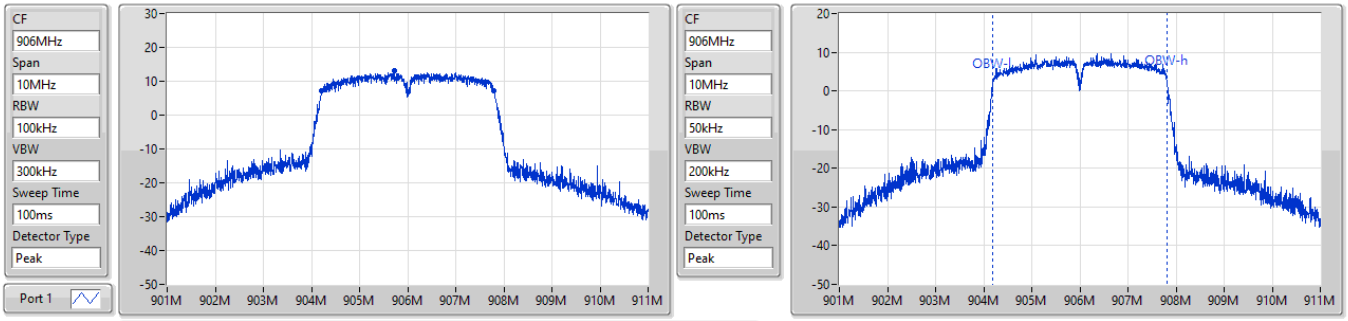


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.74M	924.1325M	925.8725M	1.789M	924.10045M	925.889555M	500k	1

902-928MHz_SRD_4MHz_Nss1_1TX EBW-DTS

906MHz

14/06/2023

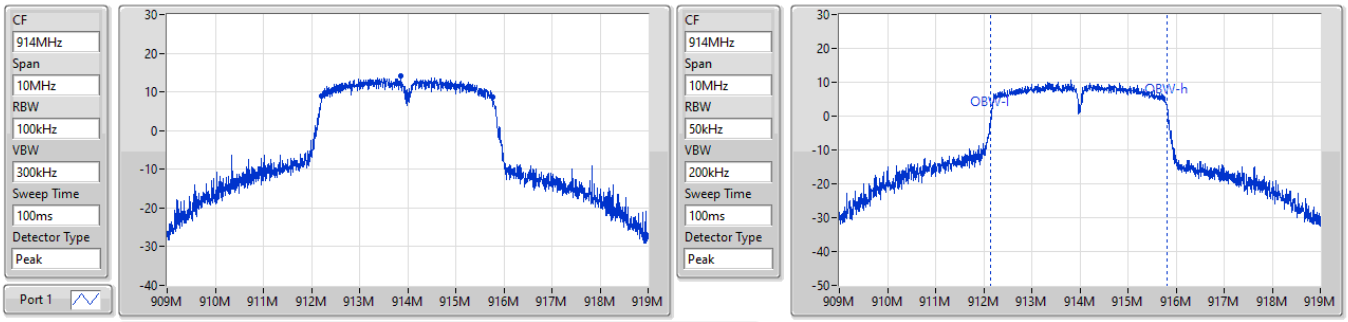


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.58M	904.215M	907.795M	3.628M	904.185907M	907.814093M	500k	1

902-928MHz_SRD_4MHz_Nss1_1TX EBW-DTS

914MHz

14/06/2023

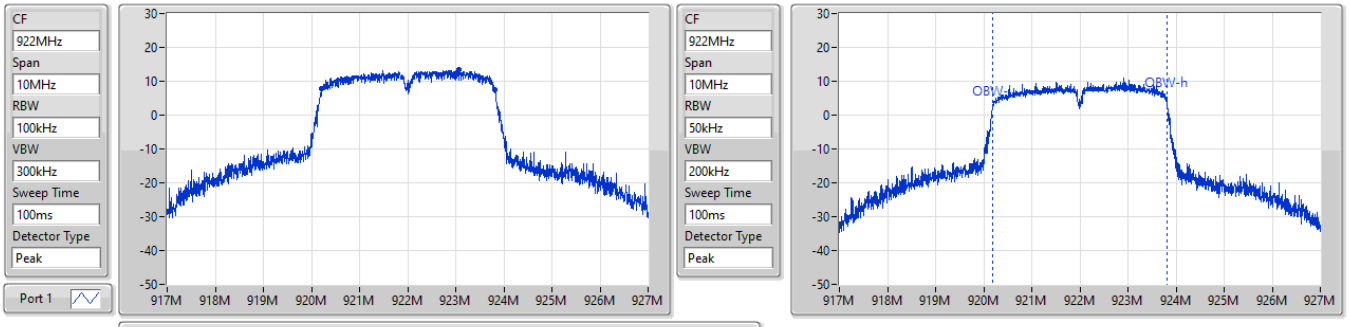


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.555M	912.21M	915.765M	3.683M	912.135932M	915.81909M	500k	1

902-928MHz_SRD_4MHz_Nss1_1TX **EBW-DTS**

922MHz

15/06/2023

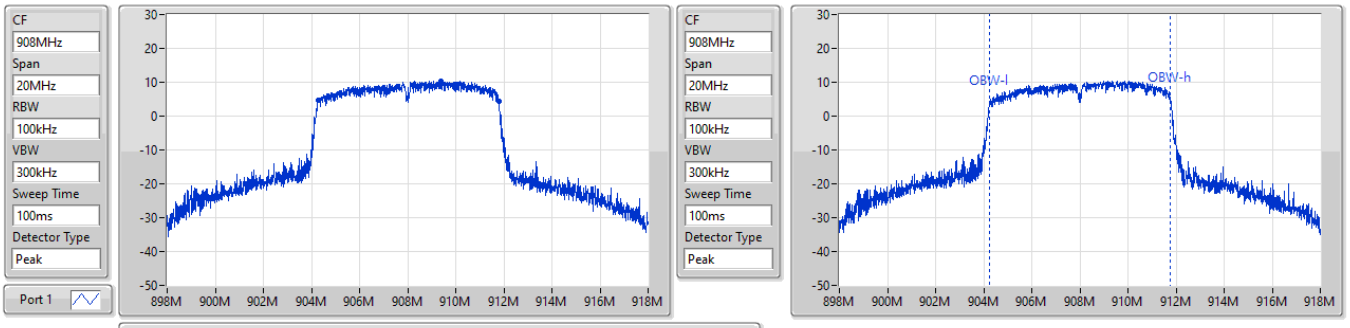


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.595M	920.21M	923.805M	3.643M	920.175912M	923.81909M	500k	1

902-928MHz_SRD_8MHz_Nss1_1TX **EBW-DTS**

908MHz

14/06/2023

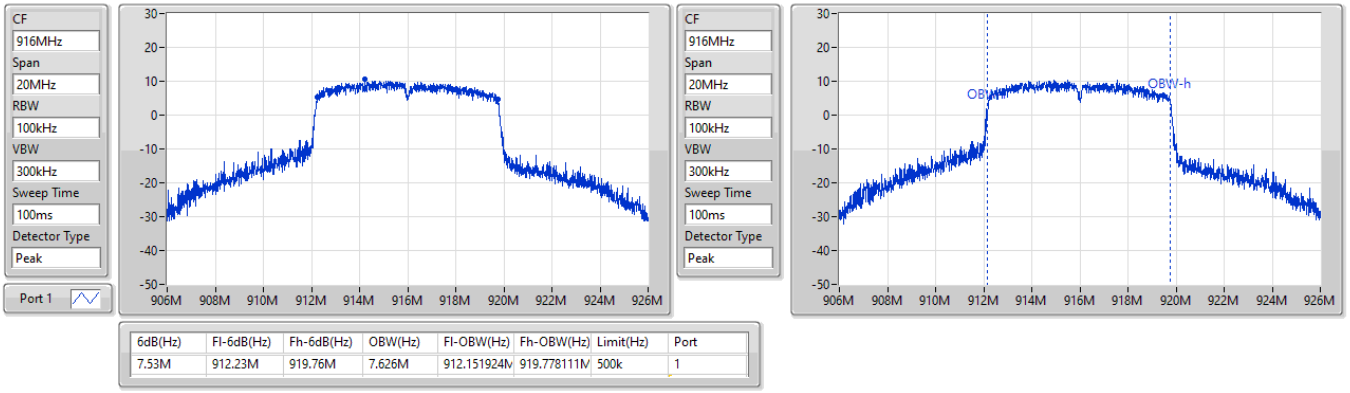


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.49M	904.3M	911.79M	7.526M	904.251874M	911.778111M	500k	1

902-928MHz_SRD_8MHz_Nss1_1TX EBW-DTS

916MHz

14/06/2023



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.53M	912.23M	919.76M	7.626M	912.151924M	919.778111M	500k	1

Summary

Mode	Total Power (dBm)	Power (W)
902-928MHz	-	-
SRD_1MHz_Nss1_1TX	25.66	0.36813
SRD_2MHz_Nss1_1TX	25.62	0.36475
SRD_4MHz_Nss1_1TX	25.81	0.38107
SRD_8MHz_Nss1_1TX	27.01	0.50234

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
SRD_1MHz_Nss1_1TX	-	-	-	-
903.5MHz	Pass	2.50	24.44	30.00
914.5MHz	Pass	2.50	24.60	30.00
926.5MHz	Pass	2.50	25.66	30.00
SRD_2MHz_Nss1_1TX	-	-	-	-
905MHz	Pass	2.50	24.95	30.00
915MHz	Pass	2.50	24.58	30.00
925MHz	Pass	2.50	25.62	30.00
SRD_4MHz_Nss1_1TX	-	-	-	-
906MHz	Pass	2.50	25.75	30.00
914MHz	Pass	2.50	25.06	30.00
922MHz	Pass	2.50	25.81	30.00
SRD_8MHz_Nss1_1TX	-	-	-	-
908MHz	Pass	2.50	27.01	30.00
916MHz	Pass	2.50	25.26	30.00

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

Summary

Mode	Total Power (dBm)	Power (W)
902-928MHz	-	-
SRD_1MHz_Nss1_1TX	20.34	0.10814
SRD_2MHz_Nss1_1TX	19.74	0.09419
SRD_4MHz_Nss1_1TX	19.76	0.09462
SRD_8MHz_Nss1_1TX	19.55	0.09016

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
SRD_1MHz_Nss1_1TX	-	-	-	-
903.5MHz	Pass	2.50	18.52	30.00
914.5MHz	Pass	2.50	19.72	30.00
926.5MHz	Pass	2.50	20.34	30.00
SRD_2MHz_Nss1_1TX	-	-	-	-
905MHz	Pass	2.50	18.53	30.00
915MHz	Pass	2.50	19.49	30.00
925MHz	Pass	2.50	19.74	30.00
SRD_4MHz_Nss1_1TX	-	-	-	-
906MHz	Pass	2.50	18.75	30.00
914MHz	Pass	2.50	19.76	30.00
922MHz	Pass	2.50	19.31	30.00
SRD_8MHz_Nss1_1TX	-	-	-	-
908MHz	Pass	2.50	19.55	30.00
916MHz	Pass	2.50	19.18	30.00

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

Summary

Mode	PD (dBm/RBW)
902-928MHz	-
SRD_1MHz_Nss1_1TX	6.55
SRD_2MHz_Nss1_1TX	3.28
SRD_4MHz_Nss1_1TX	0.06
SRD_8MHz_Nss1_1TX	-2.66

RBW = 3kHz;

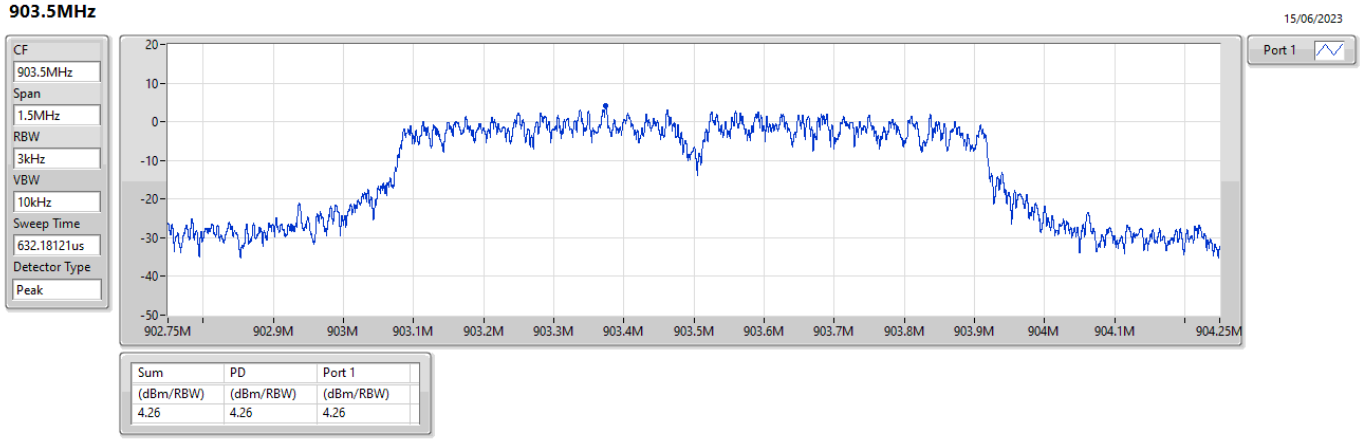
Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
SRD_1MHz_Nss1_1TX	-	-	-	-
903.5MHz	Pass	2.50	4.26	8.00
914.5MHz	Pass	2.50	6.55	8.00
926.5MHz	Pass	2.50	6.37	8.00
SRD_2MHz_Nss1_1TX	-	-	-	-
905MHz	Pass	2.50	1.18	8.00
915MHz	Pass	2.50	3.18	8.00
925MHz	Pass	2.50	3.28	8.00
SRD_4MHz_Nss1_1TX	-	-	-	-
906MHz	Pass	2.50	-2.06	8.00
914MHz	Pass	2.50	0.06	8.00
922MHz	Pass	2.50	-1.04	8.00
SRD_8MHz_Nss1_1TX	-	-	-	-
908MHz	Pass	2.50	-2.66	8.00
916MHz	Pass	2.50	-3.49	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_SRD_1MHz_Nss1_1TX **PSD**

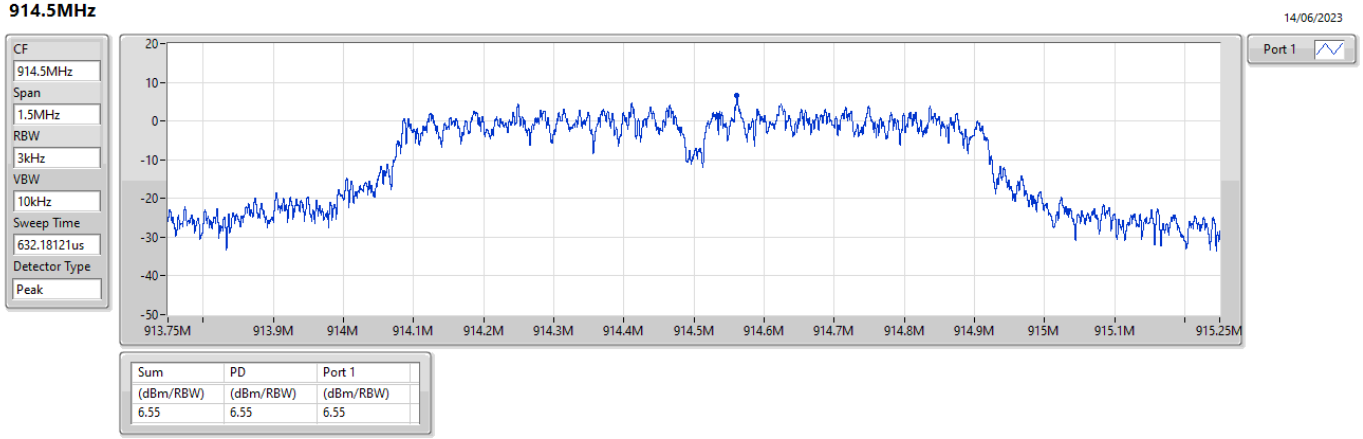
903.5MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.26	4.26	4.26

902-928MHz_SRD_1MHz_Nss1_1TX **PSD**

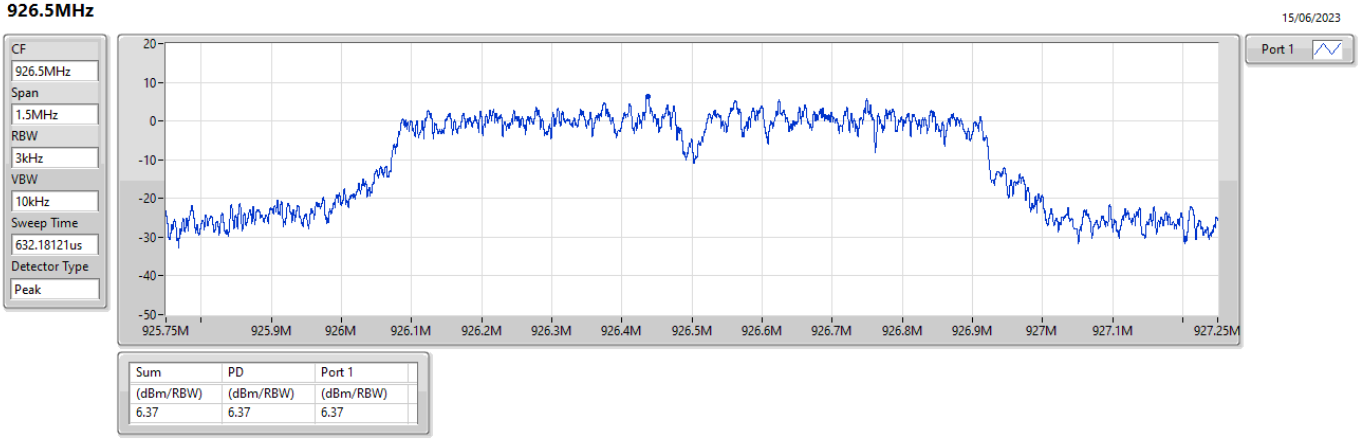
914.5MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.55	6.55	6.55

902-928MHz_SRD_1MHz_Nss1_1TX PSD

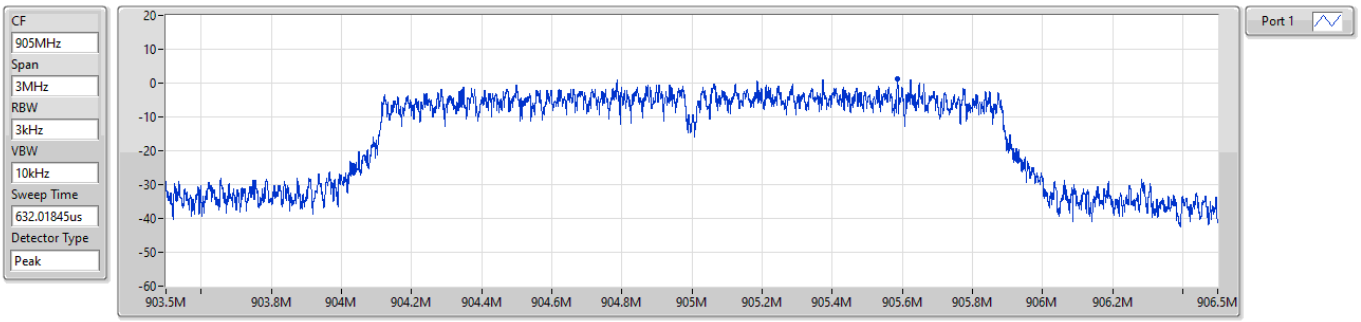
926.5MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.37	6.37	6.37

902-928MHz_SRD_2MHz_Nss1_1TX PSD

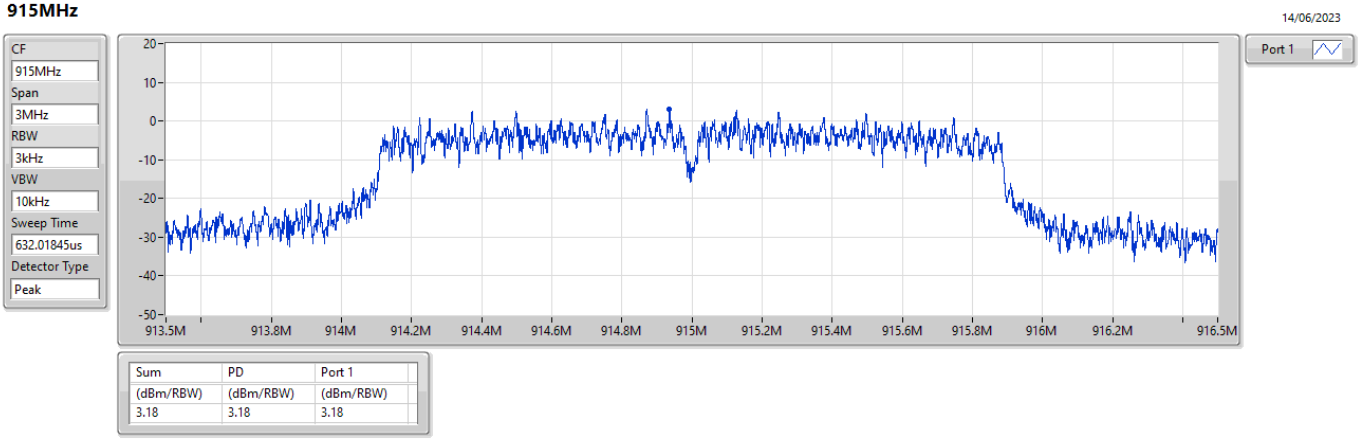
905MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.18	1.18	1.18

902-928MHz_SRD_2MHz_Nss1_1TX PSD

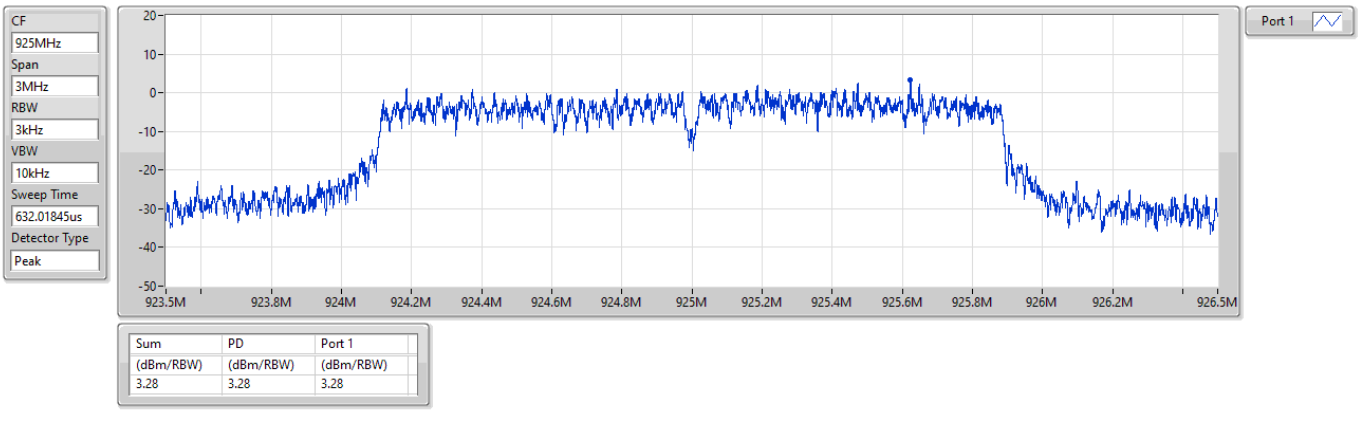
915MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.18	3.18	3.18

902-928MHz_SRD_2MHz_Nss1_1TX PSD

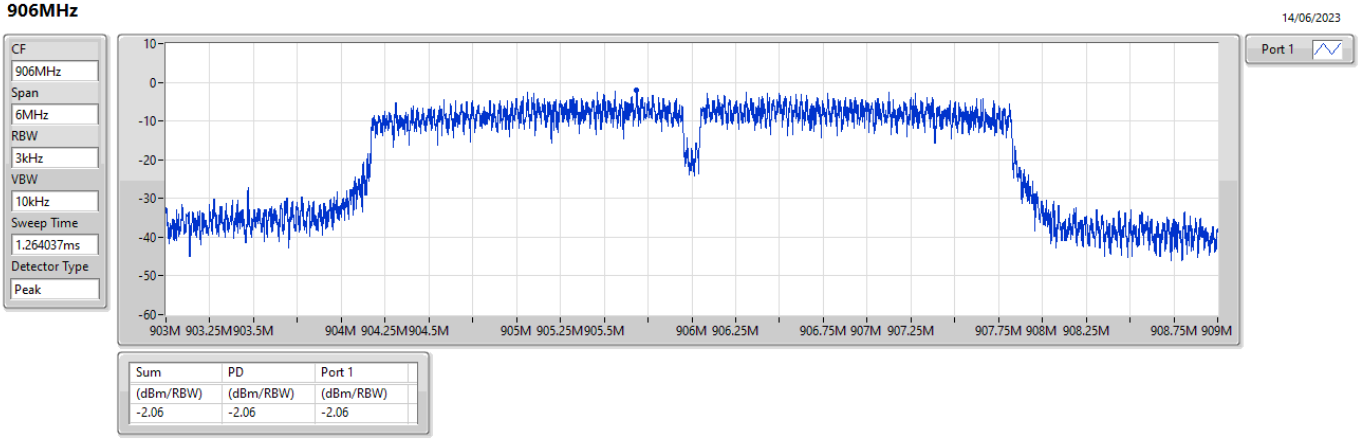
925MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.28	3.28	3.28

902-928MHz_SRD_4MHz_Nss1_1TX PSD

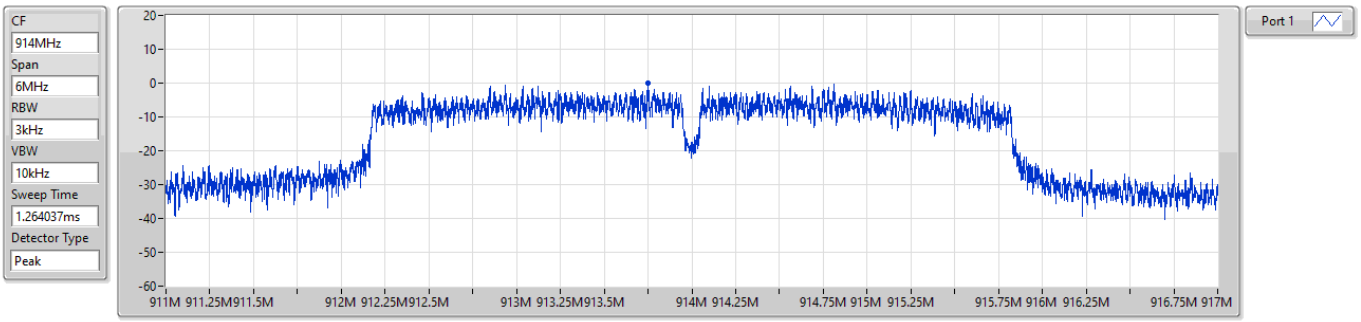
906MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.06	-2.06	-2.06

902-928MHz_SRD_4MHz_Nss1_1TX PSD

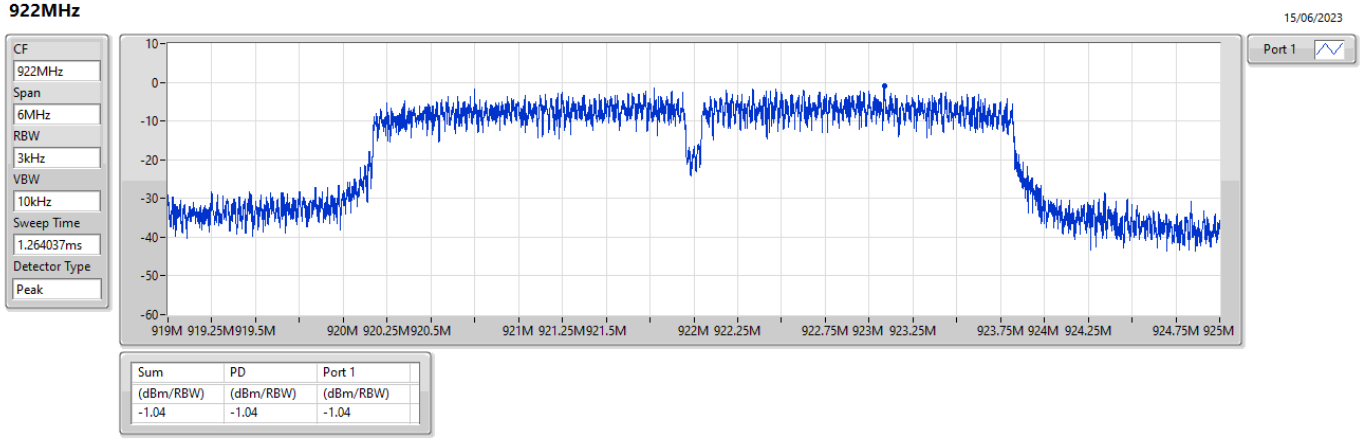
914MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.06	0.06	0.06

902-928MHz_SRD_4MHz_Nss1_1TX **PSD**

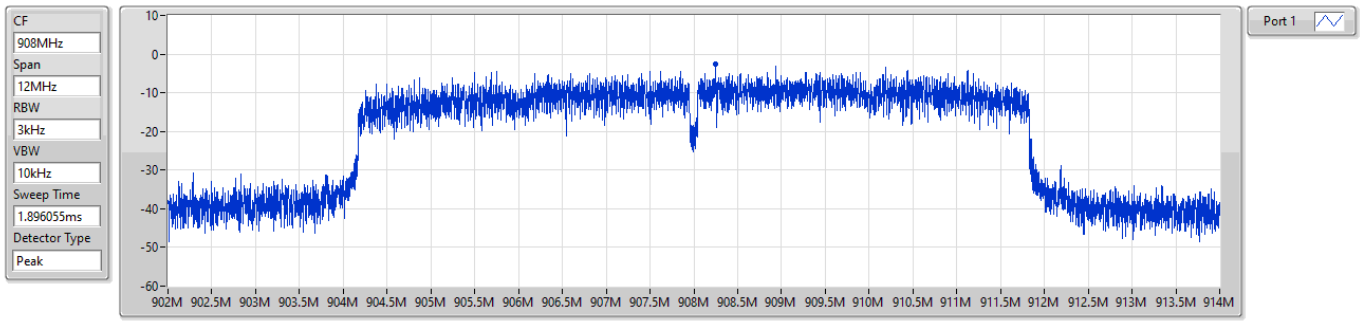
922MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.04	-1.04	-1.04

902-928MHz_SRD_8MHz_Nss1_1TX **PSD**

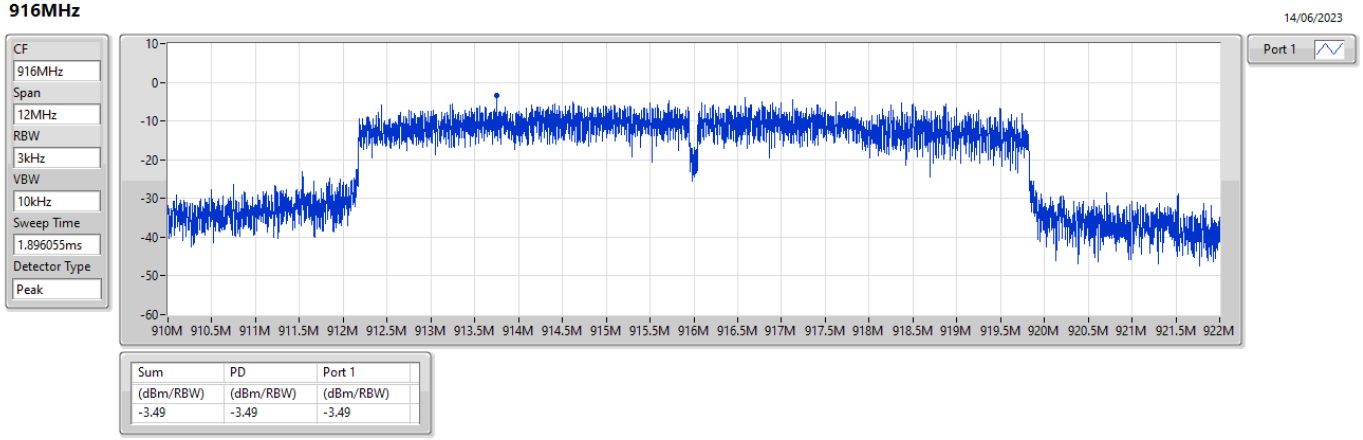
908MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.66	-2.66	-2.66

902-928MHz_SRD_8MHz_Nss1_1TX PSD

916MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.49	-3.49	-3.49

Summary

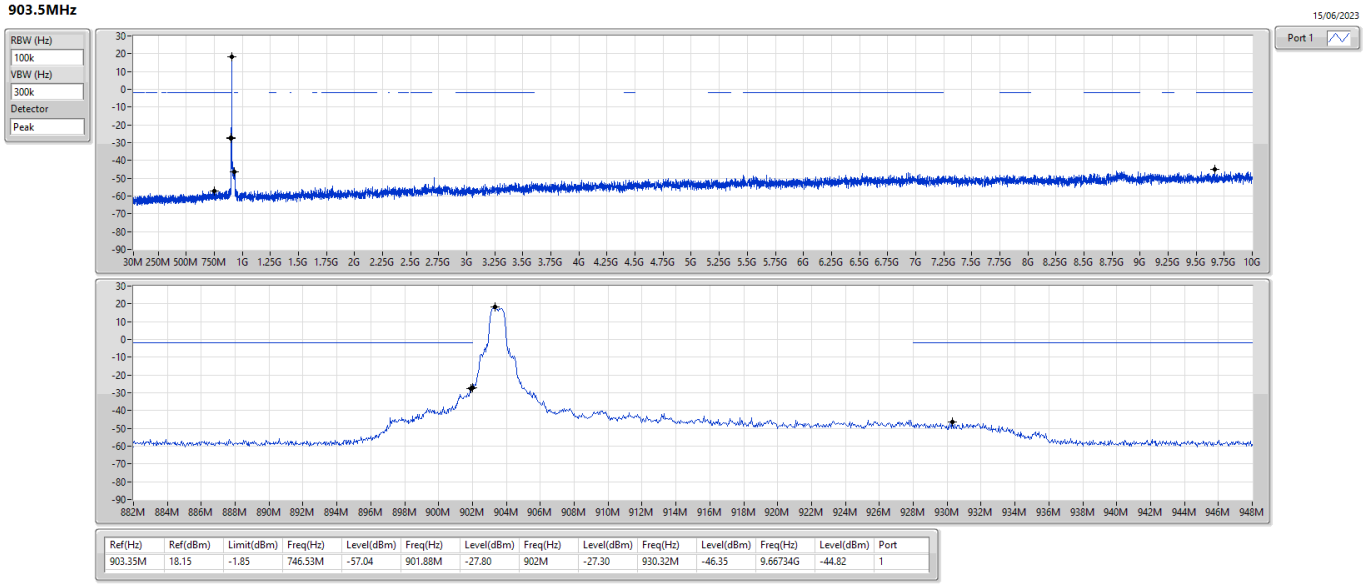
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
902-928MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SRD_1MHz_Nss1_1TX	Pass	926.39M	19.74	-0.26	704.36M	-56.64	902M	-47.59	928M	-21.34	928.2M	-21.77	9.86875G	-45.69	1
SRD_2MHz_Nss1_1TX	Pass	925.3M	16.65	-3.35	772.09M	-56.95	899.96M	-44.43	928M	-27.74	928M	-26.16	9.81217G	-45.97	1
SRD_4MHz_Nss1_1TX	Pass	905.48M	12.87	-7.13	752.5M	-56.65	901.92M	-17.97	902M	-19.12	928.4M	-42.40	9.84159G	-45.23	1
SRD_8MHz_Nss1_1TX	Pass	908.34M	10.57	-9.43	860.7M	-56.52	901.6M	-13.33	902M	-19.75	929.4M	-39.78	9.86196G	-45.53	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
SRD_1MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
903.5MHz	Pass	903.35M	18.15	-1.85	746.53M	-57.04	901.88M	-27.80	902M	-27.30	930.32M	-46.35	9.66734G	-44.82	1
914.5MHz	Pass	914.38M	18.94	-1.06	713.73M	-56.67	900.6M	-44.75	928M	-47.00	928.12M	-44.32	8.83908G	-46.23	1
926.5MHz	Pass	926.39M	19.74	-0.26	704.36M	-56.64	902M	-47.59	928M	-21.34	928.2M	-21.77	9.86875G	-45.69	1
SRD_2MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
905MHz	Pass	905.33M	15.76	-4.24	770.81M	-55.77	901.68M	-29.42	902M	-29.93	928.16M	-43.57	9.51119G	-46.50	1
915MHz	Pass	914.84M	16.53	-3.47	816.82M	-56.27	901.04M	-44.22	928M	-46.06	929.72M	-43.17	9.57229G	-45.64	1
925MHz	Pass	925.3M	16.65	-3.35	772.09M	-56.95	899.96M	-44.43	928M	-27.74	928M	-26.16	9.81217G	-45.97	1
SRD_4MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
906MHz	Pass	905.48M	12.87	-7.13	752.5M	-56.65	901.92M	-17.97	902M	-19.12	928.4M	-42.40	9.84159G	-45.23	1
914MHz	Pass	913.49M	13.60	-6.40	770.39M	-56.41	901.68M	-40.71	902M	-41.41	929.44M	-41.76	9.85064G	-45.84	1
922MHz	Pass	923.16M	13.08	-6.92	862.83M	-56.78	901.04M	-43.93	928M	-32.07	928M	-31.49	9.97511G	-45.93	1
SRD_8MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
908MHz	Pass	908.34M	10.57	-9.43	860.7M	-56.52	901.6M	-13.33	902M	-19.75	929.4M	-39.78	9.86196G	-45.53	1
916MHz	Pass	916.87M	10.69	-9.31	856.87M	-56.44	901.12M	-35.26	928M	-34.11	928M	-34.73	8.8255G	-45.66	1

902-928MHz_SRD_1MHz_Nss1_1TX CSENdB-DTS

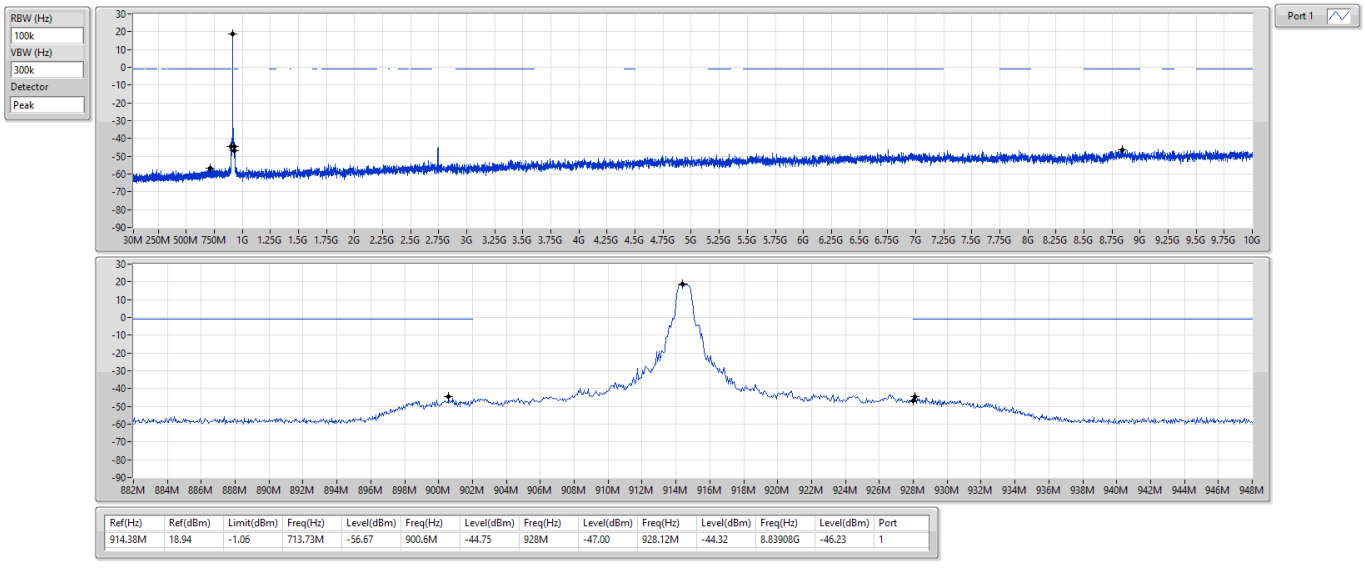
903.5MHz



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
903.35M	18.15	-1.85	746.53M	-57.04	901.88M	-27.80	902M	-27.30	930.32M	-46.35	9.66734G	-44.82	1

902-928MHz_SRD_1MHz_Nss1_1TX CSENdB-DTS

914.5MHz

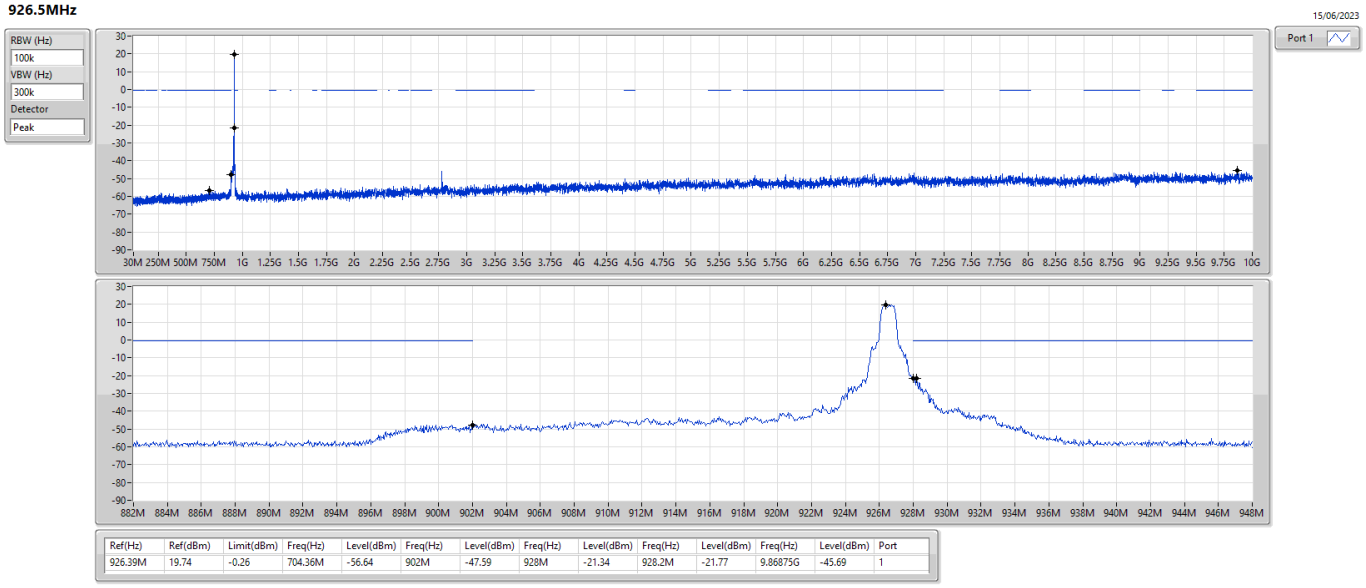


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
914.38M	18.94	-1.06	713.73M	-56.67	900.6M	-44.75	928M	-47.00	928.12M	-44.32	8.83908G	-46.23	1

902-928MHz_SRD_1MHz_Nss1_1TX

CSENdB-DTS

926.5MHz

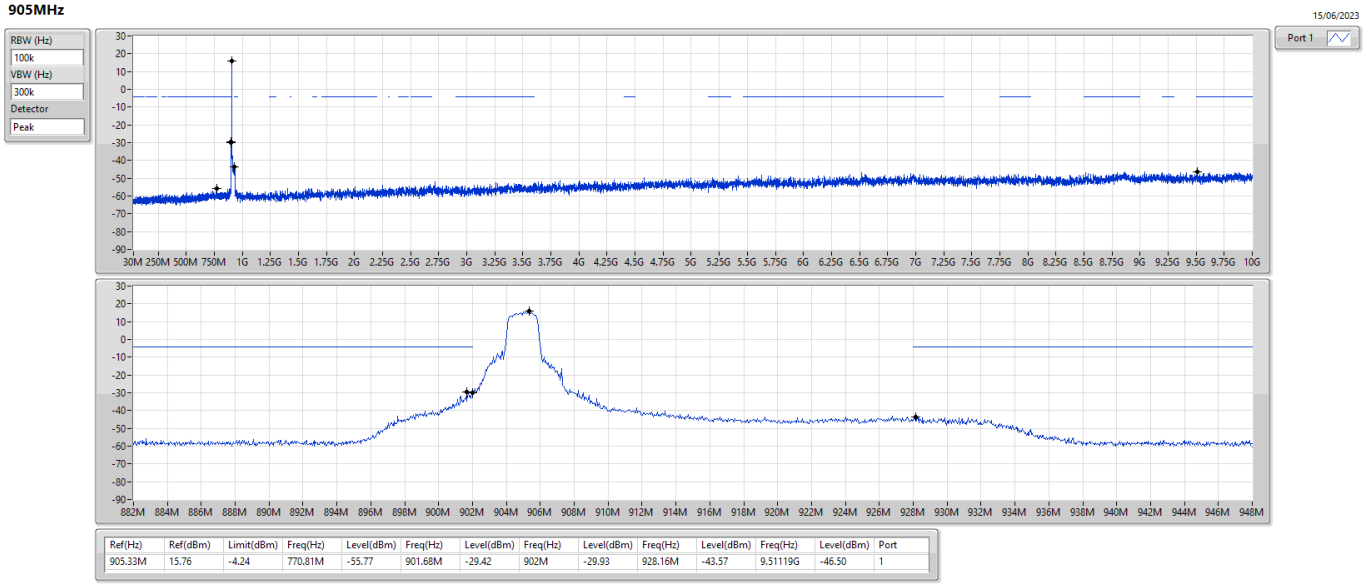


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
926.39M	19.74	-0.26	704.36M	-56.64	902M	-47.59	928M	-21.34	928.2M	-21.77	9.86875G	-45.69	1

902-928MHz_SRD_2MHz_Nss1_1TX

CSENdB-DTS

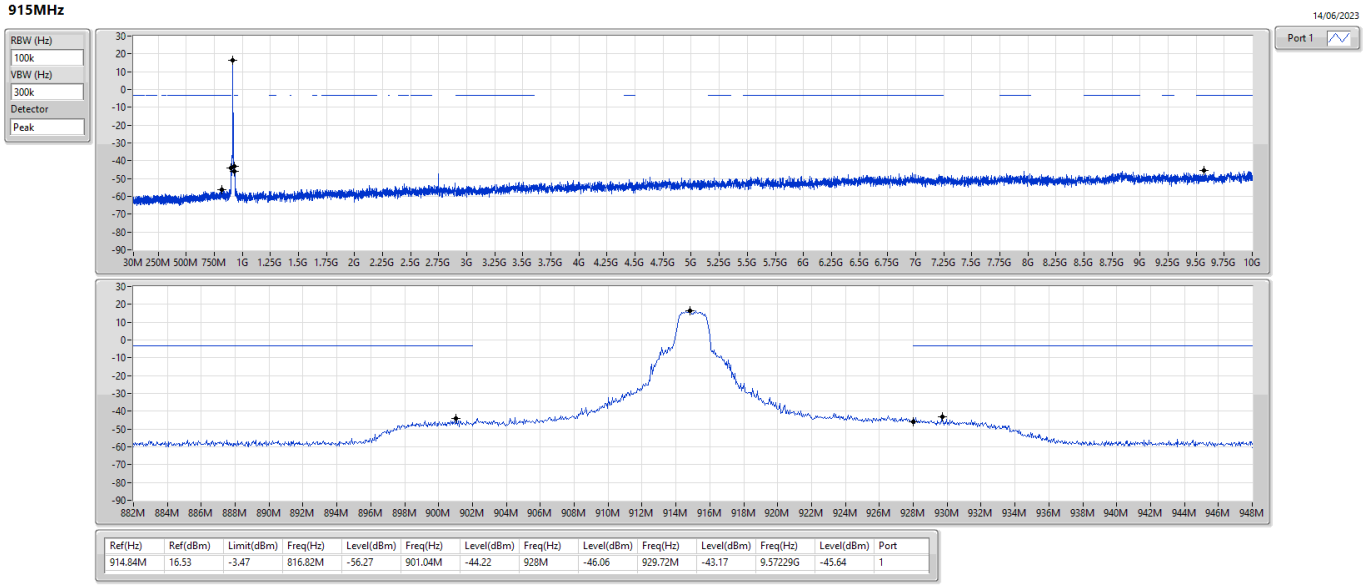
905MHz



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
905.33M	15.76	-4.24	770.81M	-55.77	901.68M	-29.42	902M	-29.93	928.16M	-43.57	9.51119G	-46.50	1

902-928MHz_SRD_2MHz_Nss1_1TX CSENdB-DTS

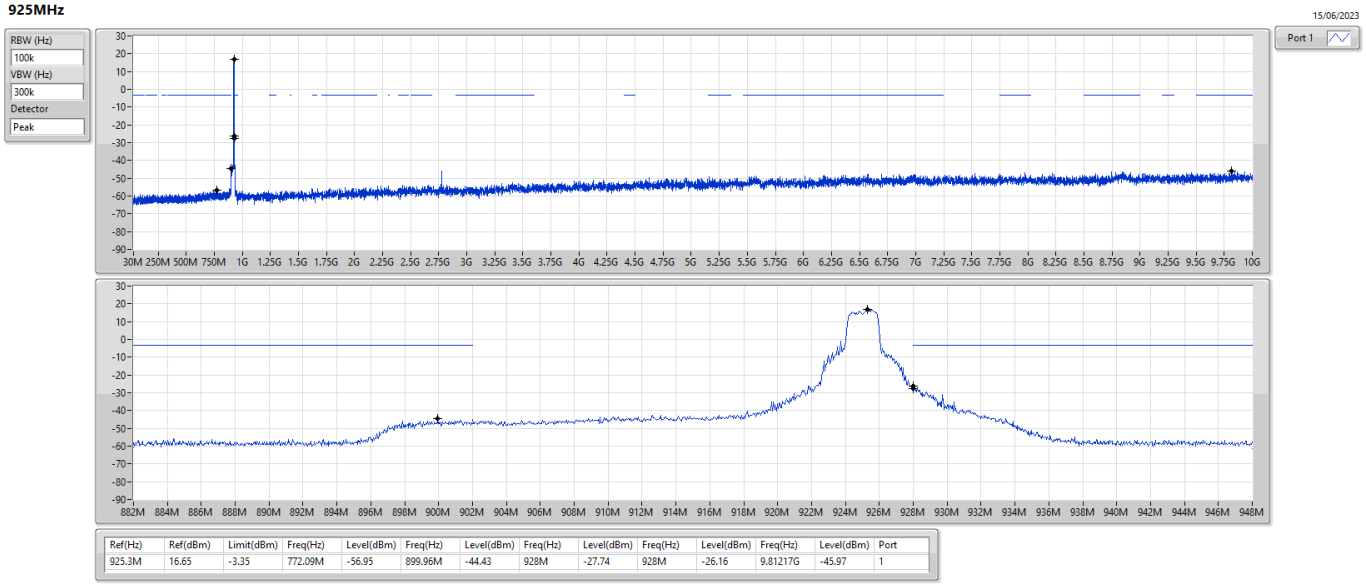
915MHz



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
914.84M	16.53	-3.47	816.82M	-56.27	901.04M	-44.22	928M	-46.06	929.72M	-43.17	9.57229G	-45.64	1

902-928MHz_SRD_2MHz_Nss1_1TX CSENdB-DTS

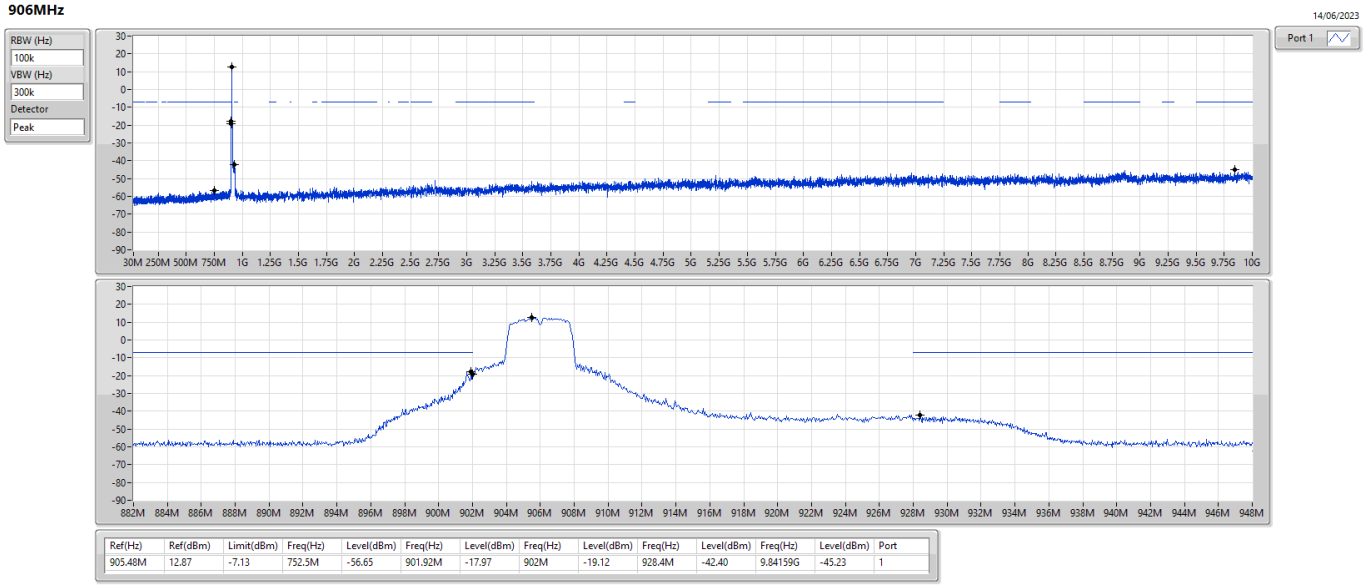
925MHz



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
925.3M	16.65	-3.35	772.09M	-56.95	899.96M	-44.43	928M	-27.74	928M	-26.16	9.81217G	-45.97	1

902-928MHz_SRD_4MHz_Nss1_1TX CSENdB-DTS

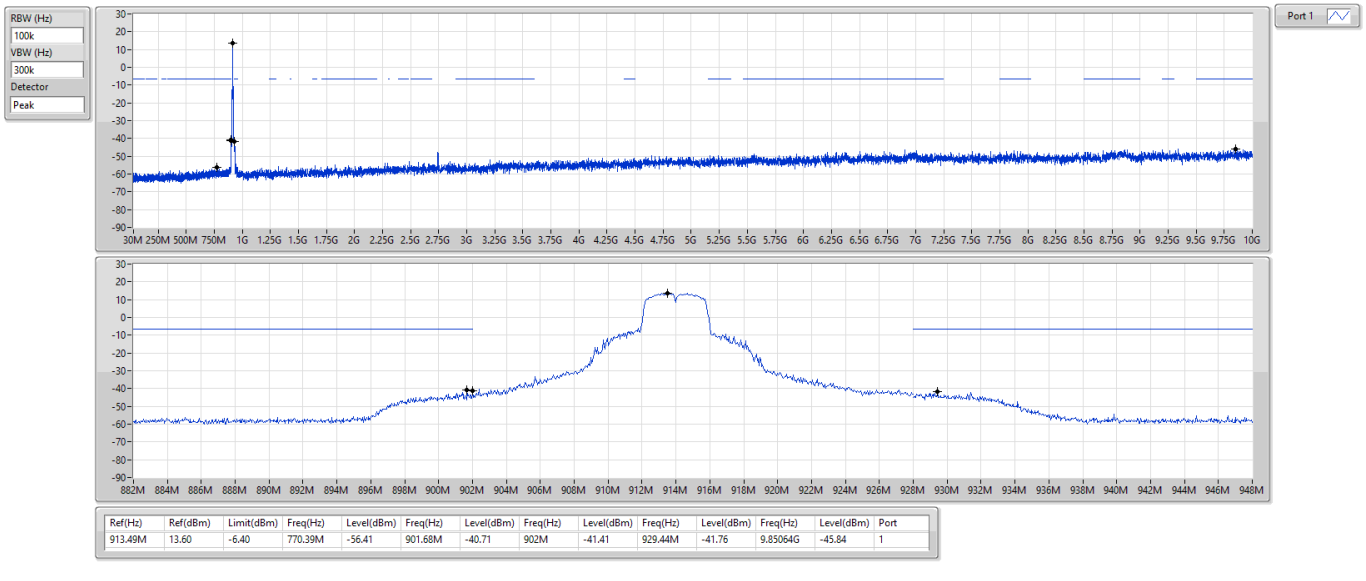
906MHz



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
905.48M	12.87	-7.13	752.5M	-56.65	901.92M	-17.97	902M	-19.12	928.4M	-42.40	9.84159G	-45.23	1

902-928MHz_SRD_4MHz_Nss1_1TX CSENdB-DTS

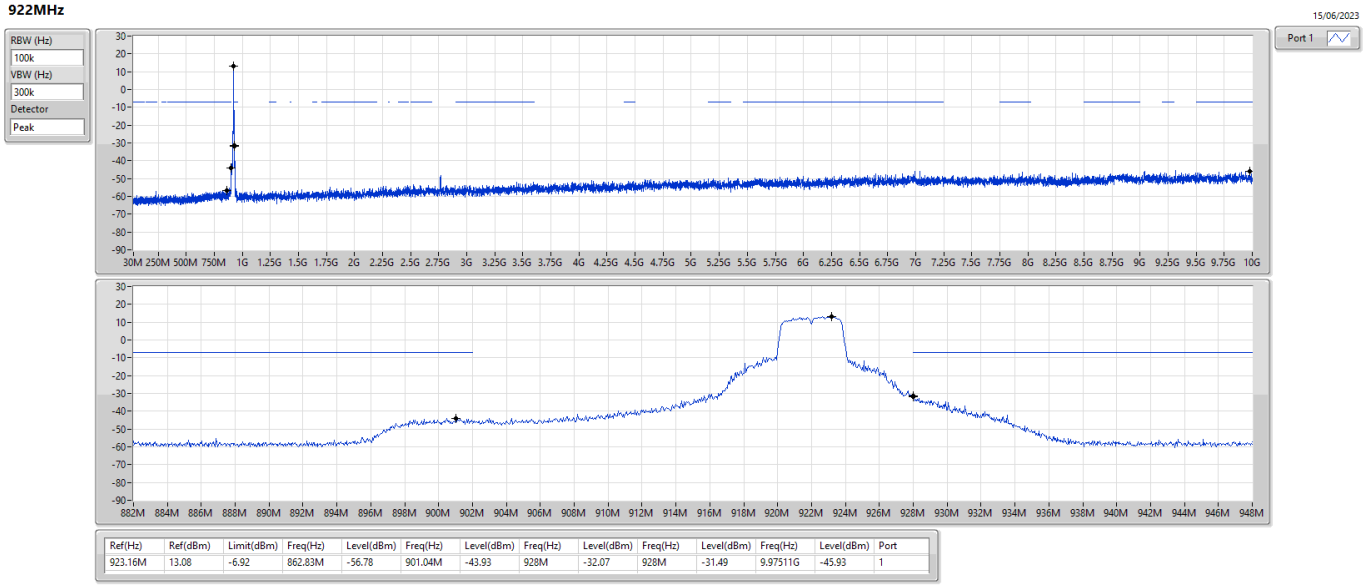
914MHz



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
913.49M	13.60	-6.40	770.39M	-56.41	901.68M	-40.71	902M	-41.41	929.44M	-41.76	9.85064G	-45.84	1

902-928MHz_SRD_4MHz_Nss1_1TX CSENdB-DTS

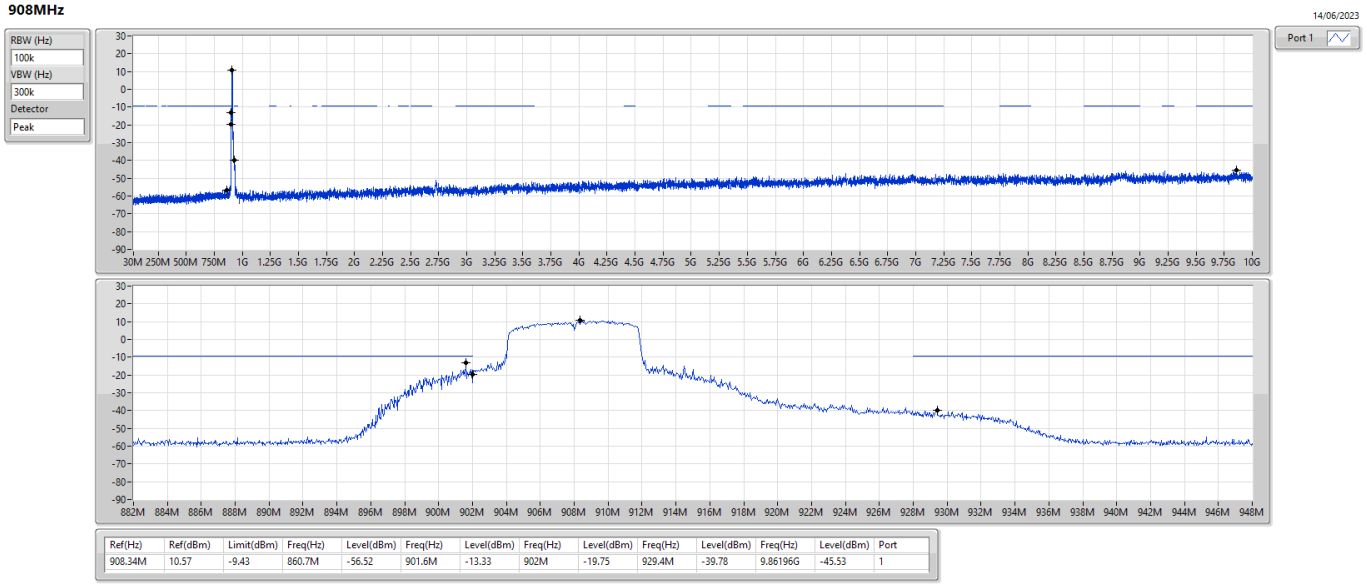
922MHz



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
923.16M	13.08	-6.92	862.83M	-56.78	901.04M	-43.93	928M	-32.07	928M	-31.49	9.97511G	-45.93	1

902-928MHz_SRD_8MHz_Nss1_1TX CSENdB-DTS

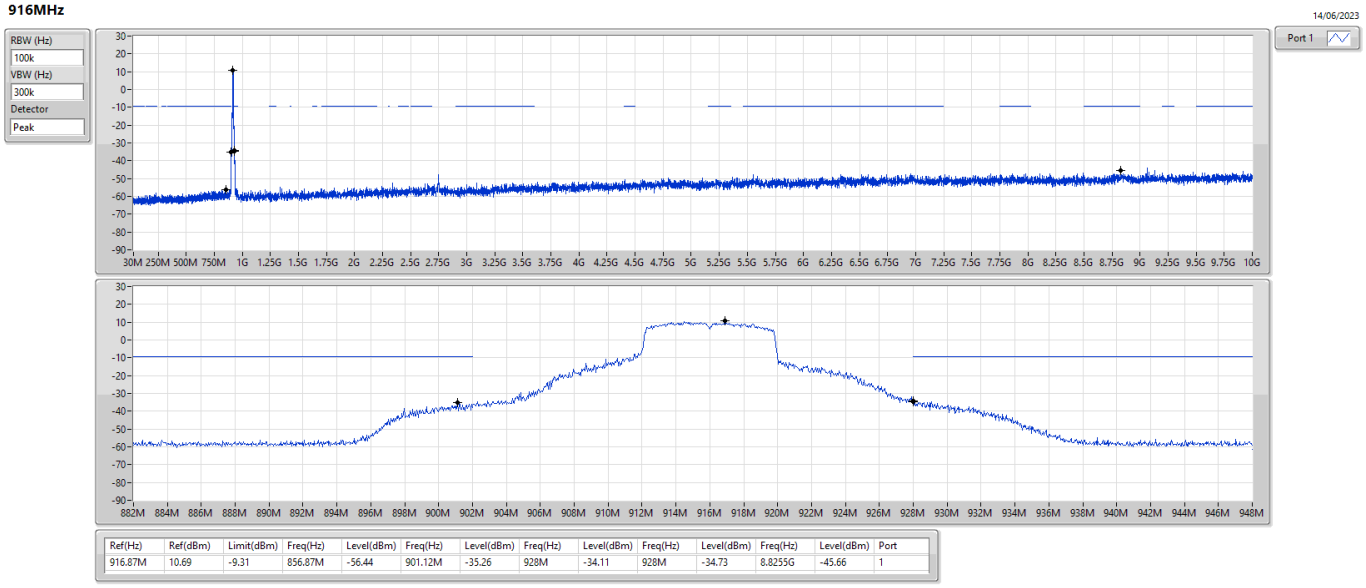
908MHz



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
908.34M	10.57	-9.43	860.7M	-56.52	901.6M	-13.33	902M	-19.75	929.4M	-39.78	9.86196G	-45.53	1

902-928MHz_SRD_8MHz_Nss1_1TX CSENdB-DTS

916MHz



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
916.87M	10.69	-9.31	856.87M	-56.44	901.12M	-35.26	928M	-34.11	928M	-34.73	8.8255G	-45.66	1

Summary

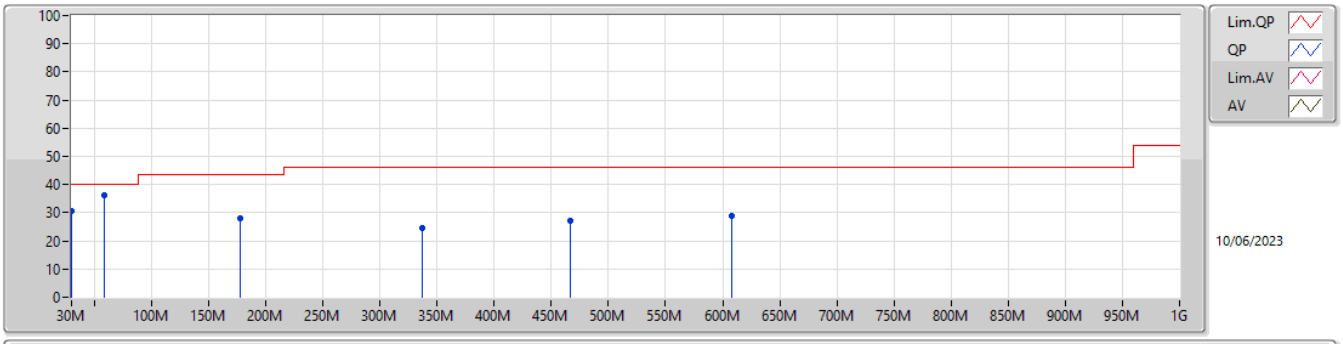
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
902-928MHz	-	-	-	-	-	-	-	-	-	-
SRD_8MHz_Nss1_1TX	Pass	PK	59.1M	36.09	40.00	-3.91	3	Vertical	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
SRD_8MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-
916MHz	Pass	PK	59.1M	36.09	40.00	-3.91	3	Vertical	0	1.00
916MHz	Pass	PK	177.44M	28.06	43.50	-15.44	3	Vertical	0	1.00
916MHz	Pass	PK	336.52M	24.53	46.00	-21.47	3	Vertical	0	1.00
916MHz	Pass	PK	466.5M	27.26	46.00	-18.74	3	Vertical	0	1.00
916MHz	Pass	PK	608.12M	29.02	46.00	-16.98	3	Vertical	0	1.00
916MHz	Pass	QP	30M	30.78	40.00	-9.22	3	Vertical	23	1.00
916MHz	Pass	PK	59.1M	25.82	40.00	-14.18	3	Horizontal	360	1.00
916MHz	Pass	PK	177.44M	32.35	43.50	-11.15	3	Horizontal	360	1.00
916MHz	Pass	PK	249.22M	24.76	46.00	-21.24	3	Horizontal	360	1.00
916MHz	Pass	PK	336.52M	24.53	46.00	-21.47	3	Horizontal	360	1.00
916MHz	Pass	PK	421.88M	26.13	46.00	-19.87	3	Horizontal	360	1.00
916MHz	Pass	PK	670.2M	29.74	46.00	-16.26	3	Horizontal	360	1.00

902-928MHz_SRD_8MHz_Nss1_1TX

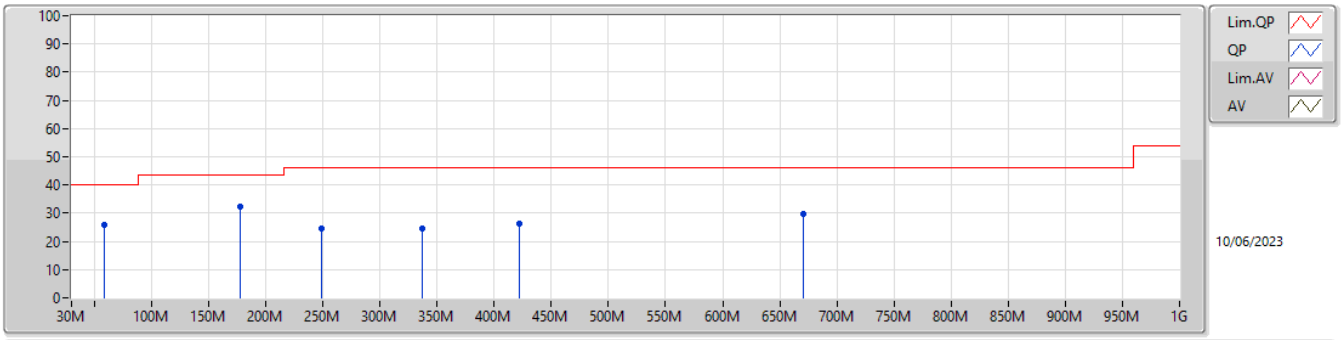
916MHz_fixture



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	59.1M	36.09	40.00	-3.91	-14.58	3	Vertical	0	1.00	50.67	11.63	1.28	27.49
PK	177.44M	28.06	43.50	-15.44	-10.21	3	Vertical	0	1.00	38.27	14.56	2.24	27.01
PK	336.52M	24.53	46.00	-21.47	-4.69	3	Vertical	0	1.00	29.22	18.96	3.14	26.79
PK	466.5M	27.26	46.00	-18.74	-1.33	3	Vertical	0	1.00	28.59	22.58	3.72	27.63
PK	608.12M	29.02	46.00	-16.98	0.46	3	Vertical	0	1.00	28.56	24.05	4.37	27.96
QP	30M	30.78	40.00	-9.22	-3.46	3	Vertical	23	1.00	34.24	23.22	0.90	27.58

902-928MHz_SRD_8MHz_Nss1_1TX

916MHz_fixture



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	59.1M	25.82	40.00	-14.18	-14.58	3	Horizontal	360	1.00	40.40	11.63	1.28	27.49
PK	177.44M	32.35	43.50	-11.15	-10.21	3	Horizontal	360	1.00	42.56	14.56	2.24	27.01
PK	249.22M	24.76	46.00	-21.24	-6.47	3	Horizontal	360	1.00	31.23	17.53	2.68	26.68
PK	336.52M	24.53	46.00	-21.47	-4.69	3	Horizontal	360	1.00	29.22	18.96	3.14	26.79
PK	421.88M	26.13	46.00	-19.87	-2.14	3	Horizontal	360	1.00	28.27	21.69	3.52	27.35
PK	670.2M	29.74	46.00	-16.26	0.97	3	Horizontal	360	1.00	28.77	24.39	4.55	27.97

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
902-928MHz	-	-	-	-	-	-	-	-	-	-
SRD_1MHz_Nss1_1TX	Pass	AV	9.03474G	43.66	54.00	-10.34	3	Horizontal	328	1.10
SRD_2MHz_Nss1_1TX	Pass	AV	9.04972G	43.26	54.00	-10.74	3	Horizontal	325	3.00
SRD_4MHz_Nss1_1TX	Pass	AV	9.14142G	43.24	54.00	-10.76	3	Horizontal	326	2.90
SRD_8MHz_Nss1_1TX	Pass	AV	9.15494G	43.71	54.00	-10.29	3	Horizontal	28	1.04

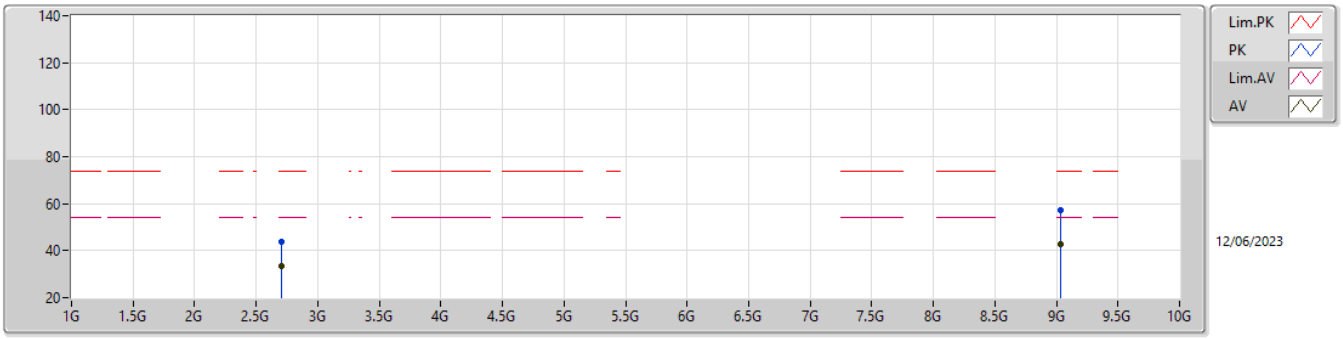
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
SRD_1MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-
903.5MHz	Pass	AV	2.70962G	33.59	54.00	-20.41	3	Vertical	211	1.03
903.5MHz	Pass	AV	9.03444G	42.79	54.00	-11.21	3	Vertical	104	2.37
903.5MHz	Pass	PK	2.70982G	43.65	74.00	-30.35	3	Vertical	211	1.03
903.5MHz	Pass	PK	9.035G	57.32	74.00	-16.68	3	Vertical	104	2.37
903.5MHz	Pass	AV	2.70944G	33.93	54.00	-20.07	3	Horizontal	360	1.03
903.5MHz	Pass	AV	9.03474G	43.66	54.00	-10.34	3	Horizontal	328	1.10
903.5MHz	Pass	PK	2.70956G	47.08	74.00	-26.92	3	Horizontal	360	1.03
903.5MHz	Pass	PK	9.03492G	60.17	74.00	-13.83	3	Horizontal	328	1.10
914.5MHz	Pass	AV	2.74348G	31.27	54.00	-22.73	3	Vertical	108	3.00
914.5MHz	Pass	AV	9.14464G	43.12	54.00	-10.88	3	Vertical	104	2.51
914.5MHz	Pass	PK	2.74396G	44.32	74.00	-29.68	3	Vertical	108	3.00
914.5MHz	Pass	PK	9.14596G	57.58	74.00	-16.42	3	Vertical	104	2.51
914.5MHz	Pass	AV	2.74338G	33.09	54.00	-20.91	3	Horizontal	69	1.00
914.5MHz	Pass	AV	9.14466G	43.39	54.00	-10.61	3	Horizontal	360	1.00
914.5MHz	Pass	PK	2.74354G	47.11	74.00	-26.89	3	Horizontal	69	1.00
914.5MHz	Pass	PK	9.14386G	58.71	74.00	-15.29	3	Horizontal	360	1.00
926.5MHz	Pass	AV	2.77944G	31.03	54.00	-22.97	3	Vertical	277	2.95
926.5MHz	Pass	PK	2.77962G	43.55	74.00	-30.45	3	Vertical	277	2.95
926.5MHz	Pass	AV	2.77944G	32.56	54.00	-21.44	3	Horizontal	68	1.29
926.5MHz	Pass	PK	2.7797G	44.87	74.00	-29.13	3	Horizontal	68	1.29
SRD_2MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-
905MHz	Pass	AV	2.7155G	29.93	54.00	-24.07	3	Vertical	210	1.82
905MHz	Pass	AV	9.0587G	42.10	54.00	-11.90	3	Vertical	42	1.26
905MHz	Pass	PK	2.7143G	43.13	74.00	-30.87	3	Vertical	210	1.82
905MHz	Pass	PK	9.05028G	54.68	74.00	-19.32	3	Vertical	42	1.26
905MHz	Pass	AV	2.71492G	32.70	54.00	-21.30	3	Horizontal	0	1.32
905MHz	Pass	AV	9.04972G	43.26	54.00	-10.74	3	Horizontal	325	3.00
905MHz	Pass	PK	2.71468G	47.29	74.00	-26.71	3	Horizontal	0	1.32
905MHz	Pass	PK	9.0453G	59.22	74.00	-14.78	3	Horizontal	325	3.00
915MHz	Pass	AV	2.7451G	30.86	54.00	-23.14	3	Vertical	227	2.58
915MHz	Pass	AV	9.15214G	42.82	54.00	-11.18	3	Vertical	198	2.11
915MHz	Pass	PK	2.74492G	43.48	74.00	-30.52	3	Vertical	227	2.58
915MHz	Pass	PK	9.1539G	55.77	74.00	-18.23	3	Vertical	198	2.11
915MHz	Pass	AV	2.74496G	32.18	54.00	-21.82	3	Horizontal	63	1.00
915MHz	Pass	AV	9.1511G	43.10	54.00	-10.90	3	Horizontal	0	1.17
915MHz	Pass	PK	2.74518G	45.61	74.00	-28.39	3	Horizontal	63	1.00
915MHz	Pass	PK	9.14894G	56.99	74.00	-17.01	3	Horizontal	0	1.17
925MHz	Pass	AV	2.77492G	31.04	54.00	-22.96	3	Vertical	251	2.59
925MHz	Pass	PK	2.77512G	43.93	74.00	-30.07	3	Vertical	251	2.59
925MHz	Pass	AV	2.77568G	32.16	54.00	-21.84	3	Horizontal	68	1.28
925MHz	Pass	PK	2.77484G	44.71	74.00	-29.29	3	Horizontal	68	1.28
SRD_4MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-
906MHz	Pass	AV	2.71908G	30.55	54.00	-23.45	3	Vertical	25	1.12
906MHz	Pass	AV	9.06004G	42.63	54.00	-11.37	3	Vertical	360	1.12
906MHz	Pass	PK	2.71862G	44.38	74.00	-29.62	3	Vertical	25	1.12
906MHz	Pass	PK	9.05694G	55.04	74.00	-18.96	3	Vertical	360	1.12
906MHz	Pass	AV	2.71852G	32.19	54.00	-21.81	3	Horizontal	360	1.50
906MHz	Pass	AV	9.0615G	42.90	54.00	-11.10	3	Horizontal	360	1.18
906MHz	Pass	PK	2.718G	45.58	74.00	-28.42	3	Horizontal	360	1.50
906MHz	Pass	PK	9.06014G	55.37	74.00	-18.63	3	Horizontal	360	1.18
914MHz	Pass	AV	2.7423G	30.74	54.00	-23.26	3	Vertical	11	2.06
914MHz	Pass	AV	9.14202G	42.82	54.00	-11.18	3	Vertical	132	2.04
914MHz	Pass	PK	2.74144G	42.71	74.00	-31.29	3	Vertical	11	2.06
914MHz	Pass	PK	9.13714G	54.41	74.00	-19.59	3	Vertical	132	2.04
914MHz	Pass	AV	2.74192G	31.67	54.00	-22.33	3	Horizontal	72	1.00
914MHz	Pass	AV	9.14142G	43.24	54.00	-10.76	3	Horizontal	326	2.90
914MHz	Pass	PK	2.74364G	44.20	74.00	-29.80	3	Horizontal	72	1.00
914MHz	Pass	PK	9.14156G	57.92	74.00	-16.08	3	Horizontal	326	2.90
922MHz	Pass	AV	2.76638G	30.90	54.00	-23.10	3	Vertical	254	2.60
922MHz	Pass	PK	2.7659G	43.78	74.00	-30.22	3	Vertical	254	2.60

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
922MHz	Pass	AV	2.7668G	31.88	54.00	-22.12	3	Horizontal	352	2.70
922MHz	Pass	PK	2.7666G	45.15	74.00	-28.85	3	Horizontal	352	2.70
SRD_8MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-
908MHz	Pass	AV	2.7231G	32.15	54.00	-21.85	3	Vertical	360	3.00
908MHz	Pass	AV	9.07827G	43.40	54.00	-10.60	3	Vertical	251	1.50
908MHz	Pass	PK	2.72387G	44.70	74.00	-29.30	3	Vertical	360	3.00
908MHz	Pass	PK	9.0855G	55.42	74.00	-18.58	3	Vertical	251	1.50
908MHz	Pass	AV	2.72424G	31.83	54.00	-22.17	3	Horizontal	346	1.10
908MHz	Pass	AV	9.08394G	43.57	54.00	-10.43	3	Horizontal	314	2.74
908MHz	Pass	PK	2.72046G	43.90	74.00	-30.10	3	Horizontal	346	1.10
908MHz	Pass	PK	9.08704G	55.89	74.00	-18.11	3	Horizontal	314	2.74
916MHz	Pass	AV	2.74714G	31.29	54.00	-22.71	3	Vertical	360	2.57
916MHz	Pass	AV	9.15475G	43.58	54.00	-10.42	3	Vertical	205	2.07
916MHz	Pass	PK	2.74173G	43.05	74.00	-30.95	3	Vertical	360	2.57
916MHz	Pass	PK	9.15501G	54.92	74.00	-19.08	3	Vertical	205	2.07
916MHz	Pass	AV	2.74528G	31.28	54.00	-22.72	3	Horizontal	360	1.50
916MHz	Pass	AV	9.15494G	43.71	54.00	-10.29	3	Horizontal	28	1.04
916MHz	Pass	PK	2.74781G	42.80	74.00	-31.20	3	Horizontal	360	1.50
916MHz	Pass	PK	9.16291G	55.47	74.00	-18.53	3	Horizontal	28	1.04

902-928MHz_SRD_1MHz_Nss1_1TX

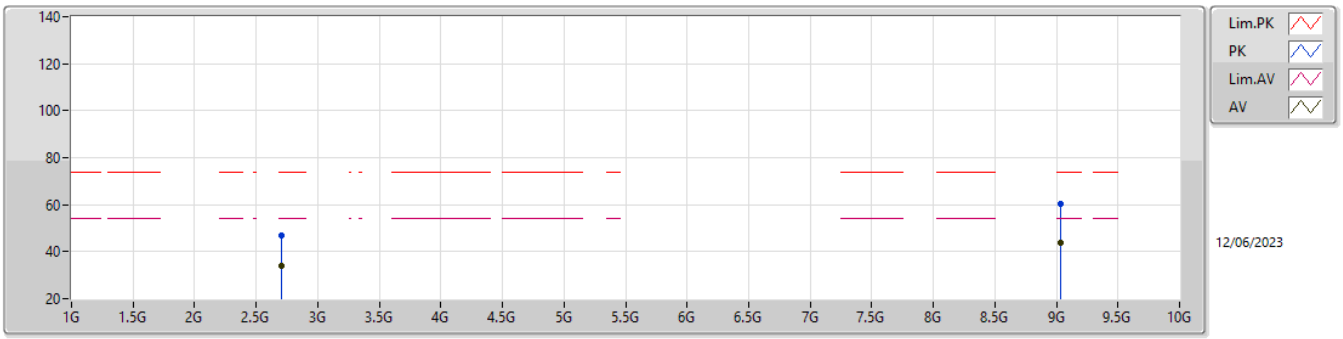
903.5MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.70962G	33.59	54.00	-20.41	-0.81	3	Vertical	211	1.03	34.40	28.30	4.91	34.02
AV	9.03444G	42.79	54.00	-11.21	12.68	3	Vertical	104	2.37	30.11	38.20	9.58	35.10
PK	2.70982G	43.65	74.00	-30.35	-0.81	3	Vertical	211	1.03	44.46	28.30	4.91	34.02
PK	9.035G	57.32	74.00	-16.68	12.68	3	Vertical	104	2.37	44.64	38.20	9.58	35.10

902-928MHz_SRD_1MHz_Nss1_1TX

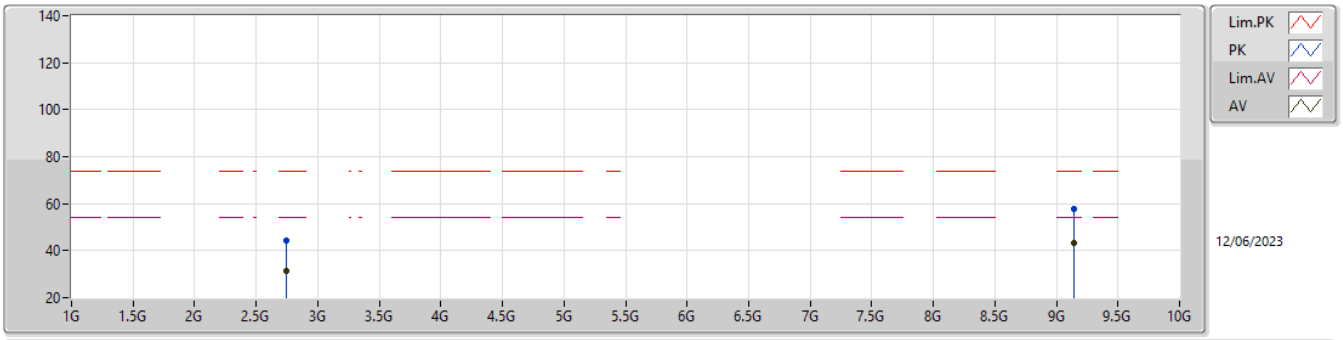
903.5MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.70944G	33.93	54.00	-20.07	-0.82	3	Horizontal	360	1.03	34.75	28.30	4.90	34.02
AV	9.03474G	43.66	54.00	-10.34	12.68	3	Horizontal	328	1.10	30.98	38.20	9.58	35.10
PK	2.70956G	47.08	74.00	-26.92	-0.81	3	Horizontal	360	1.03	47.89	28.30	4.91	34.02
PK	9.03492G	60.17	74.00	-13.83	12.68	3	Horizontal	328	1.10	47.49	38.20	9.58	35.10

902-928MHz_SRD_1MHz_Nss1_1TX

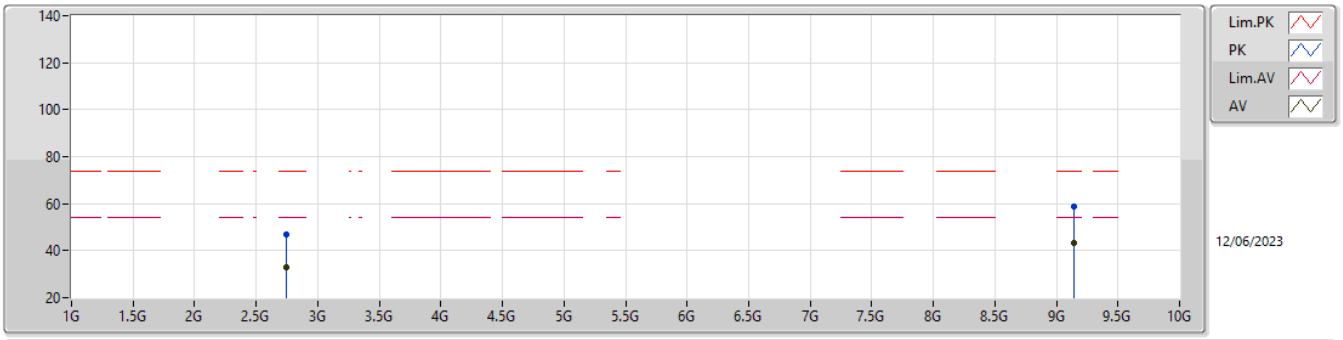
914.5MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.74348G	31.27	54.00	-22.73	-0.70	3	Vertical	108	3.00	31.97	28.30	5.03	34.03
AV	9.14464G	43.12	54.00	-10.88	13.04	3	Vertical	104	2.51	30.08	38.47	9.69	35.12
PK	2.74396G	44.32	74.00	-29.68	-0.70	3	Vertical	108	3.00	45.02	28.30	5.03	34.03
PK	9.14596G	57.58	74.00	-16.42	13.05	3	Vertical	104	2.51	44.53	38.48	9.69	35.12

902-928MHz_SRD_1MHz_Nss1_1TX

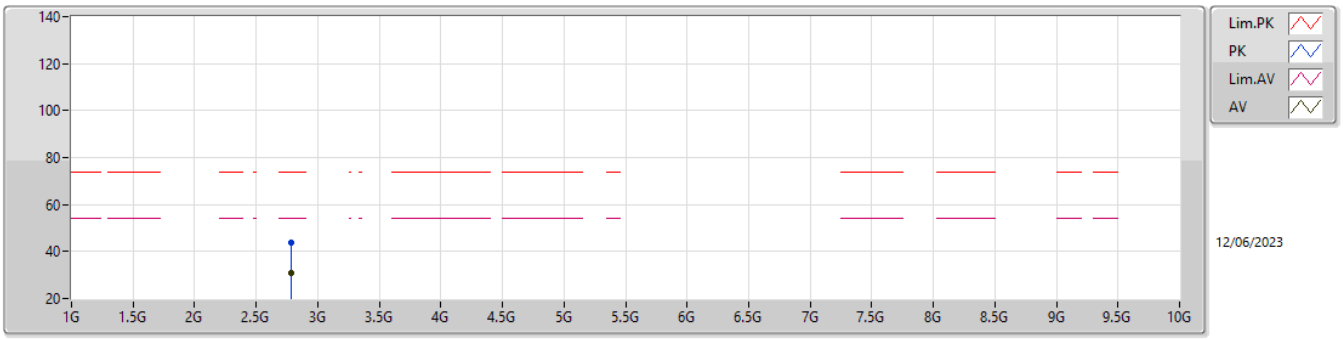
914.5MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.74338G	33.09	54.00	-20.91	-0.70	3	Horizontal	69	1.00	33.79	28.30	5.03	34.03
AV	9.14466G	43.39	54.00	-10.61	13.04	3	Horizontal	360	1.00	30.35	38.47	9.69	35.12
PK	2.74354G	47.11	74.00	-26.89	-0.70	3	Horizontal	69	1.00	47.81	28.30	5.03	34.03
PK	9.14386G	58.71	74.00	-15.29	13.03	3	Horizontal	360	1.00	45.68	38.46	9.69	35.12

902-928MHz_SRD_1MHz_Nss1_1TX

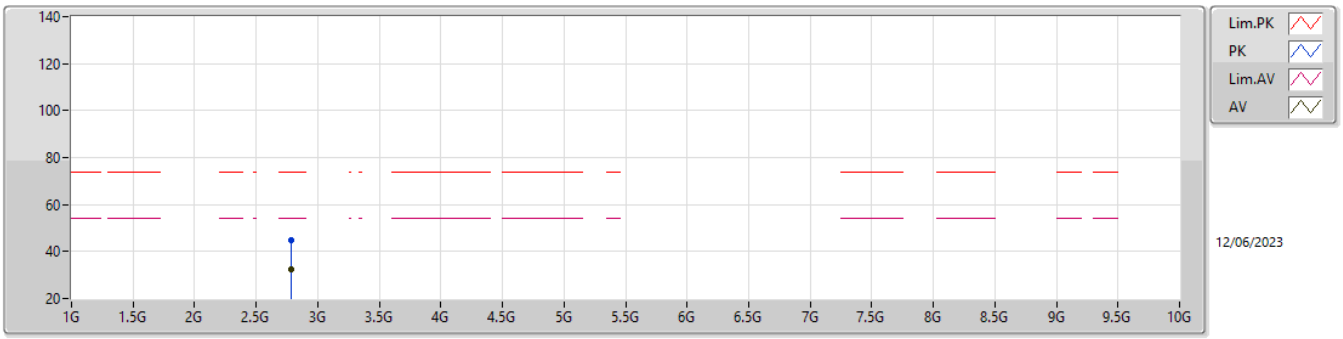
926.5MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.77944G	31.03	54.00	-22.97	-0.47	3	Vertical	277	2.95	31.50	28.42	5.16	34.05
PK	2.77962G	43.55	74.00	-30.45	-0.47	3	Vertical	277	2.95	44.02	28.42	5.16	34.05

902-928MHz_SRD_1MHz_Nss1_1TX

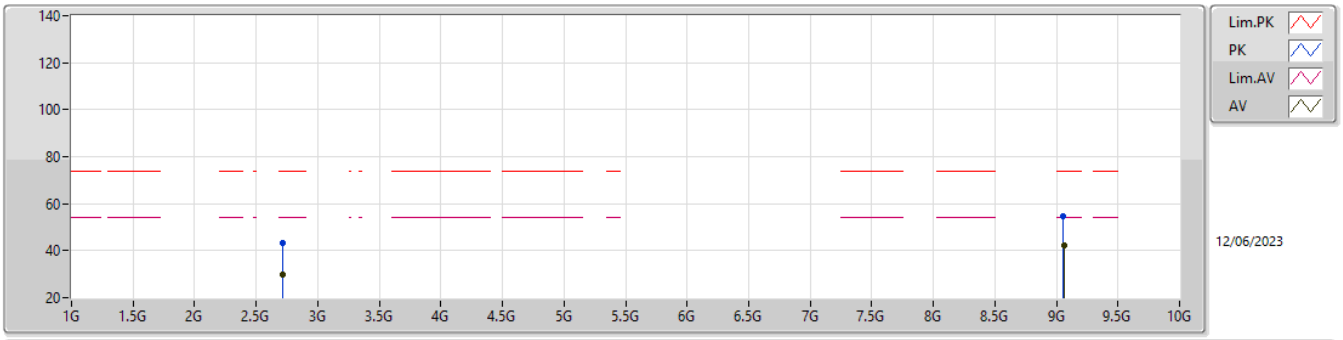
926.5MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.77944G	32.56	54.00	-21.44	-0.47	3	Horizontal	68	1.29	33.03	28.42	5.16	34.05
PK	2.7797G	44.87	74.00	-29.13	-0.47	3	Horizontal	68	1.29	45.34	28.42	5.16	34.05

902-928MHz_SRD_2MHz_Nss1_1TX

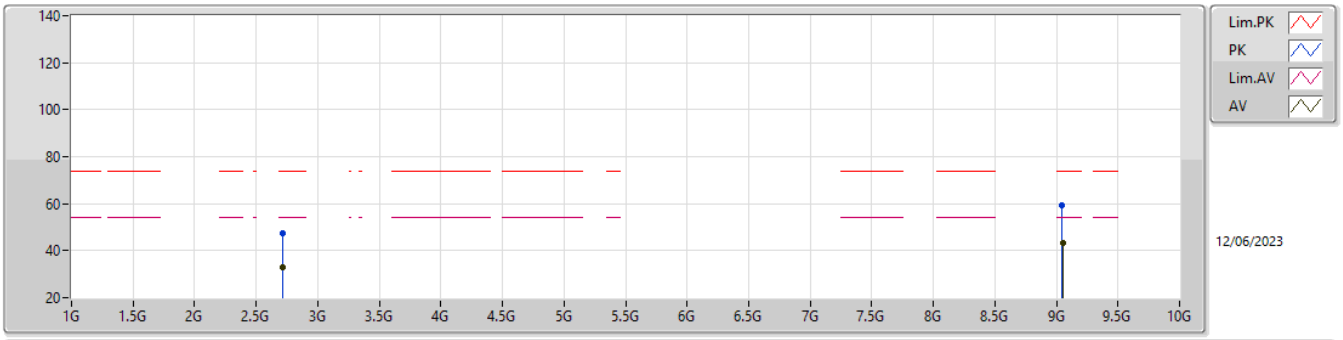
905MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.7155G	29.93	54.00	-24.07	-0.79	3	Vertical	210	1.82	30.72	28.30	4.93	34.02
AV	9.0587G	42.10	54.00	-11.90	12.70	3	Vertical	42	1.26	29.40	38.20	9.60	35.10
PK	2.7143G	43.13	74.00	-30.87	-0.80	3	Vertical	210	1.82	43.93	28.30	4.92	34.02
PK	9.05028G	54.68	74.00	-19.32	12.69	3	Vertical	42	1.26	41.99	38.20	9.59	35.10

902-928MHz_SRD_2MHz_Nss1_1TX

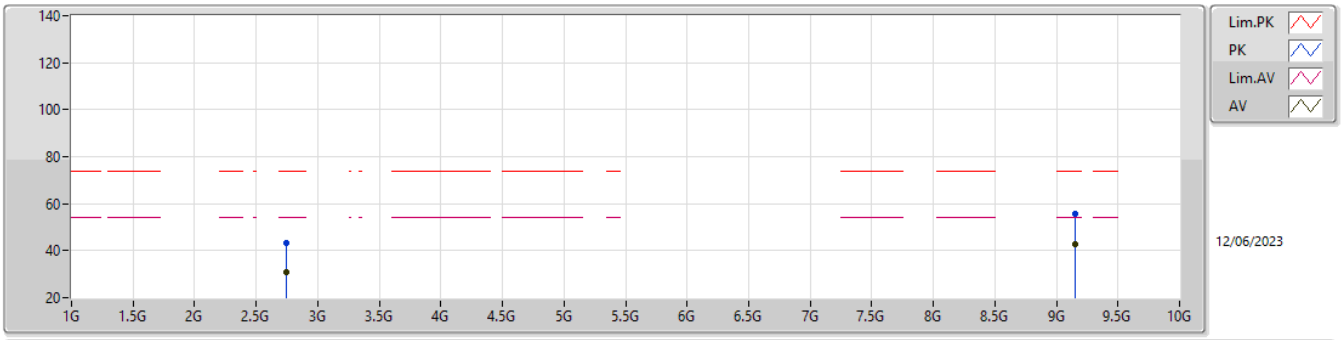
905MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.71492G	32.70	54.00	-21.30	-0.79	3	Horizontal	0	1.32	33.49	28.30	4.93	34.02
AV	9.04972G	43.26	54.00	-10.74	12.69	3	Horizontal	325	3.00	30.57	38.20	9.59	35.10
PK	2.71468G	47.29	74.00	-26.71	-0.80	3	Horizontal	0	1.32	48.09	28.30	4.92	34.02
PK	9.0453G	59.22	74.00	-14.78	12.69	3	Horizontal	325	3.00	46.53	38.20	9.59	35.10

902-928MHz_SRD_2MHz_Nss1_1TX

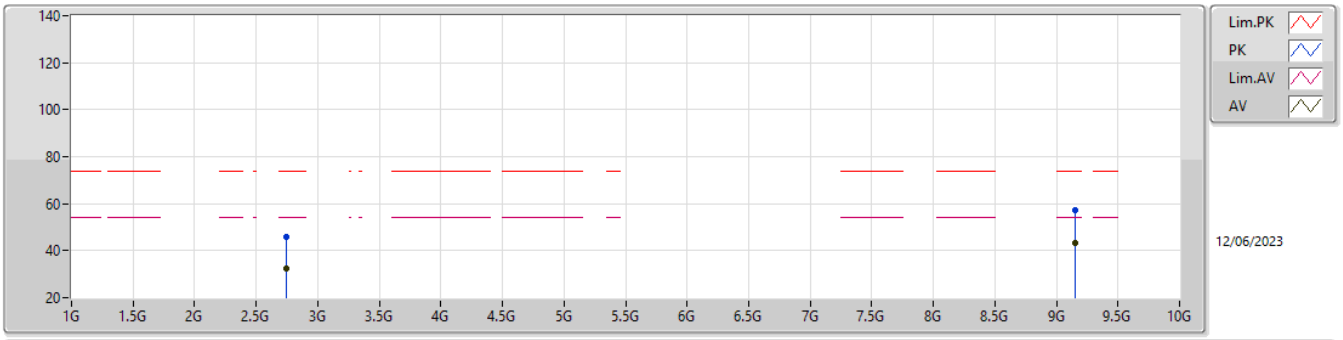
915MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.7451G	30.86	54.00	-23.14	-0.69	3	Vertical	227	2.58	31.55	28.30	5.04	34.03
AV	9.15214G	42.82	54.00	-11.18	13.08	3	Vertical	198	2.11	29.74	38.50	9.70	35.12
PK	2.74492G	43.48	74.00	-30.52	-0.69	3	Vertical	227	2.58	44.17	28.30	5.04	34.03
PK	9.1539G	55.77	74.00	-18.23	13.08	3	Vertical	198	2.11	42.69	38.50	9.70	35.12

902-928MHz_SRD_2MHz_Nss1_1TX

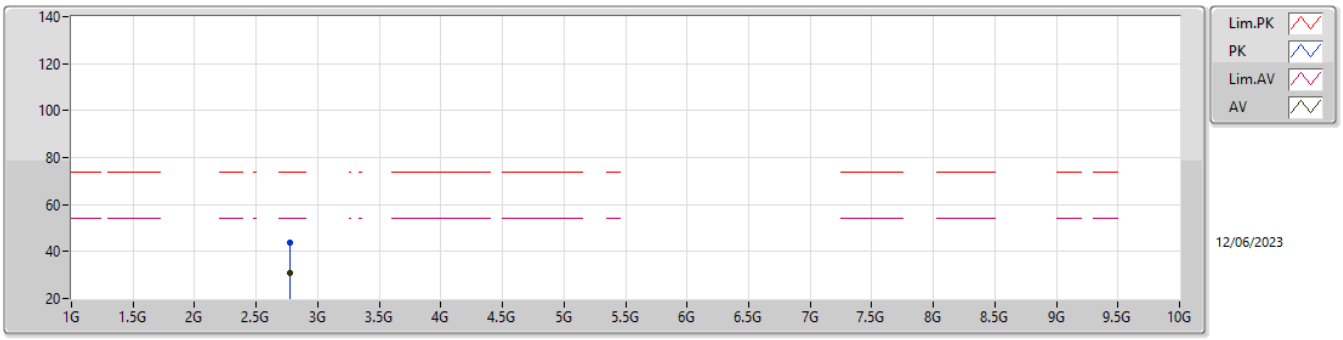
915MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.74496G	32.18	54.00	-21.82	-0.69	3	Horizontal	63	1.00	32.87	28.30	5.04	34.03
AV	9.1511G	43.10	54.00	-10.90	13.08	3	Horizontal	0	1.17	30.02	38.50	9.70	35.12
PK	2.74518G	45.61	74.00	-28.39	-0.69	3	Horizontal	63	1.00	46.30	28.30	5.04	34.03
PK	9.14894G	56.99	74.00	-17.01	13.07	3	Horizontal	0	1.17	43.92	38.49	9.70	35.12

902-928MHz_SRD_2MHz_Nss1_1TX

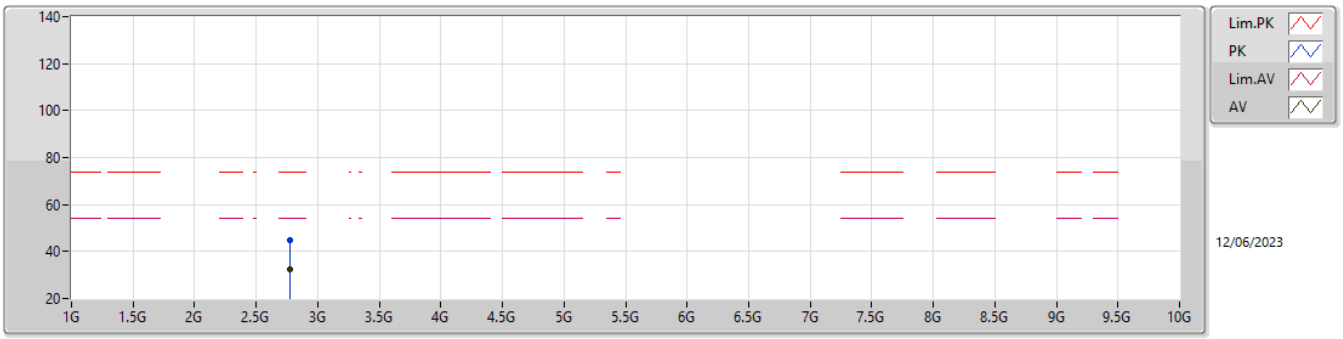
925MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.77492G	31.04	54.00	-22.96	-0.49	3	Vertical	251	2.59	31.53	28.40	5.15	34.04
PK	2.77512G	43.93	74.00	-30.07	-0.49	3	Vertical	251	2.59	44.42	28.40	5.15	34.04

902-928MHz_SRD_2MHz_Nss1_1TX

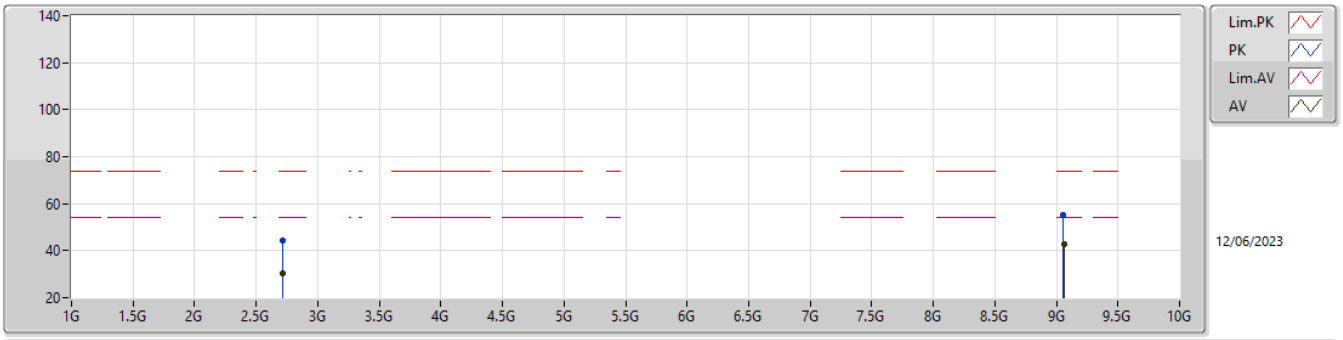
925MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.77568G	32.16	54.00	-21.84	-0.49	3	Horizontal	68	1.28	32.65	28.40	5.15	34.04
PK	2.77484G	44.71	74.00	-29.29	-0.49	3	Horizontal	68	1.28	45.20	28.40	5.15	34.04

902-928MHz_SRD_4MHz_Nss1_1TX

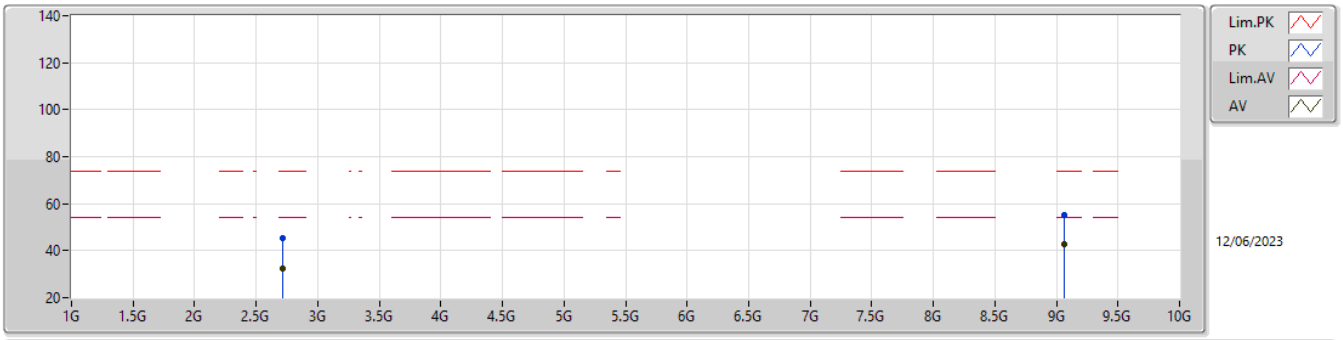
906MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.71908G	30.55	54.00	-23.45	-0.78	3	Vertical	25	1.12	31.33	28.30	4.94	34.02
AV	9.06004G	42.63	54.00	-11.37	12.70	3	Vertical	360	1.12	29.93	38.20	9.60	35.10
PK	2.71862G	44.38	74.00	-29.62	-0.78	3	Vertical	25	1.12	45.16	28.30	4.94	34.02
PK	9.05694G	55.04	74.00	-18.96	12.70	3	Vertical	360	1.12	42.34	38.20	9.60	35.10

902-928MHz_SRD_4MHz_Nss1_1TX

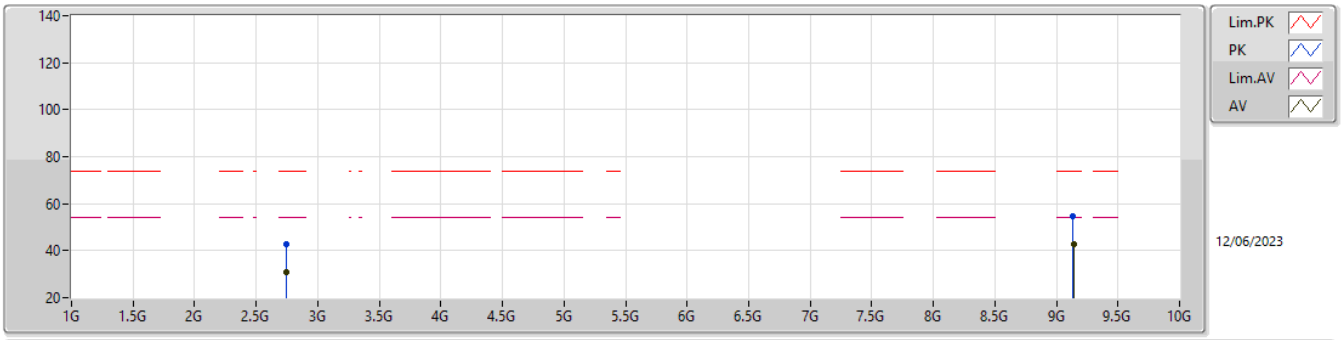
906MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.71852G	32.19	54.00	-21.81	-0.78	3	Horizontal	360	1.50	32.97	28.30	4.94	34.02
AV	9.0615G	42.90	54.00	-11.10	12.70	3	Horizontal	360	1.18	30.20	38.20	9.60	35.10
PK	2.718G	45.58	74.00	-28.42	-0.78	3	Horizontal	360	1.50	46.36	28.30	4.94	34.02
PK	9.06014G	55.37	74.00	-18.63	12.70	3	Horizontal	360	1.18	42.67	38.20	9.60	35.10

902-928MHz_SRD_4MHz_Nss1_1TX

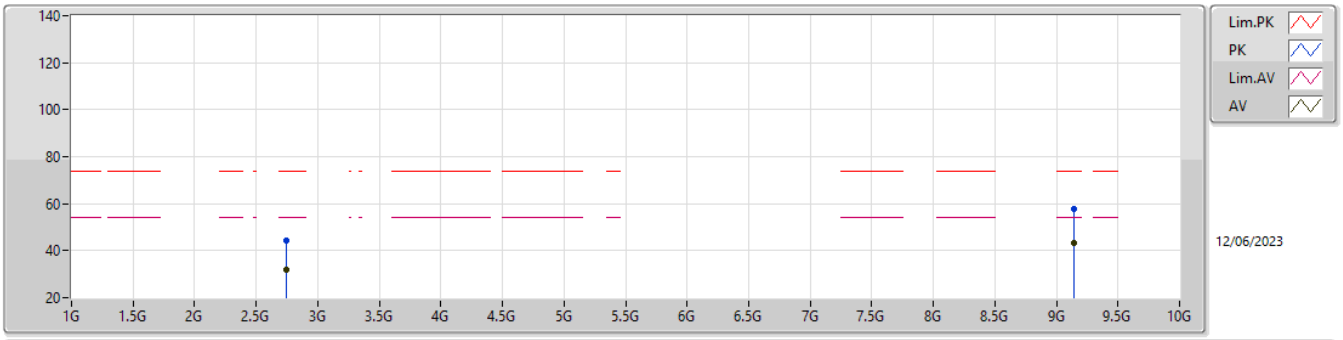
914MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.7423G	30.74	54.00	-23.26	-0.70	3	Vertical	11	2.06	31.44	28.30	5.03	34.03
AV	9.14202G	42.82	54.00	-11.18	13.02	3	Vertical	132	2.04	29.80	38.45	9.69	35.12
PK	2.74144G	42.71	74.00	-31.29	-0.71	3	Vertical	11	2.06	43.42	28.30	5.02	34.03
PK	9.13714G	54.41	74.00	-19.59	12.99	3	Vertical	132	2.04	41.42	38.42	9.68	35.11

902-928MHz_SRD_4MHz_Nss1_1TX

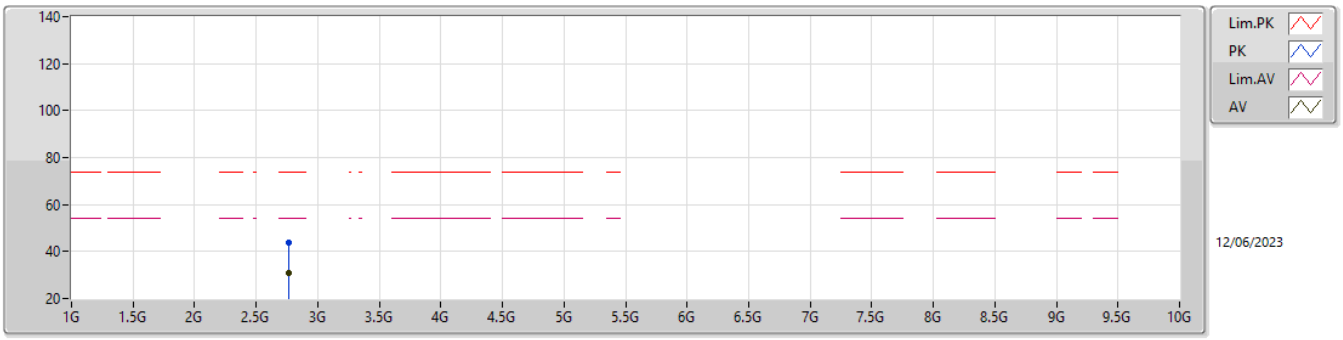
914MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.74192G	31.67	54.00	-22.33	-0.70	3	Horizontal	72	1.00	32.37	28.30	5.03	34.03
AV	9.14142G	43.24	54.00	-10.76	13.02	3	Horizontal	326	2.90	30.22	38.45	9.69	35.12
PK	2.74364G	44.20	74.00	-29.80	-0.70	3	Horizontal	72	1.00	44.90	28.30	5.03	34.03
PK	9.14156G	57.92	74.00	-16.08	13.02	3	Horizontal	326	2.90	44.90	38.45	9.69	35.12

902-928MHz_SRD_4MHz_Nss1_1TX

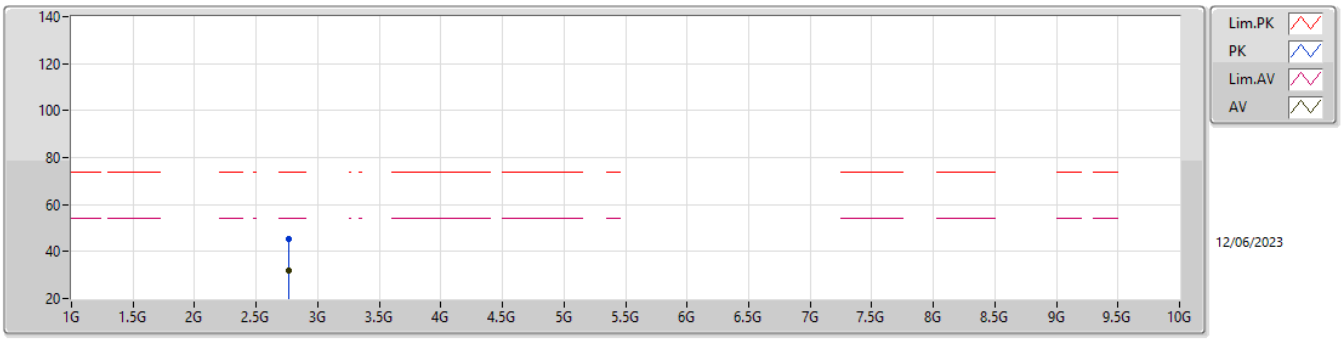
922MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.76638G	30.90	54.00	-23.10	-0.55	3	Vertical	254	2.60	31.45	28.37	5.12	34.04
PK	2.7659G	43.78	74.00	-30.22	-0.57	3	Vertical	254	2.60	44.35	28.36	5.11	34.04

902-928MHz_SRD_4MHz_Nss1_1TX

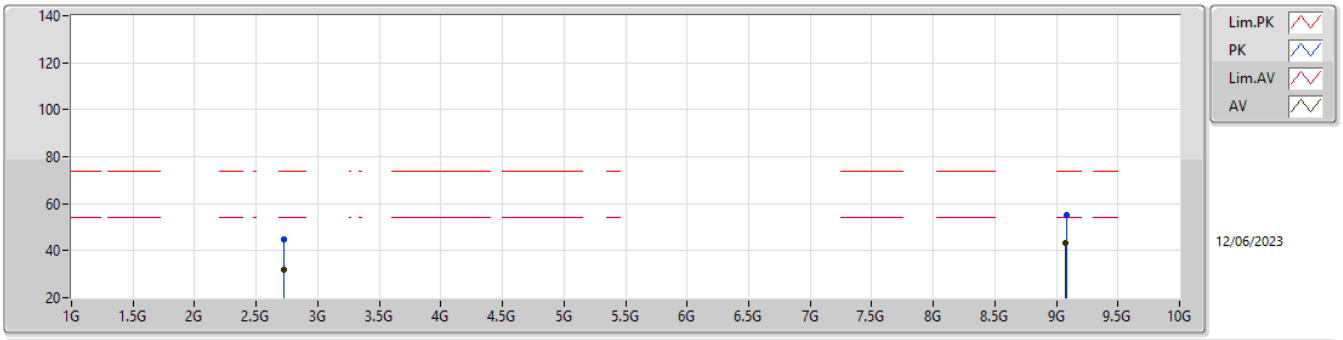
922MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.7668G	31.88	54.00	-22.12	-0.55	3	Horizontal	352	2.70	32.43	28.37	5.12	34.04
PK	2.7666G	45.15	74.00	-28.85	-0.55	3	Horizontal	352	2.70	45.70	28.37	5.12	34.04

902-928MHz_SRD_8MHz_Nss1_1TX

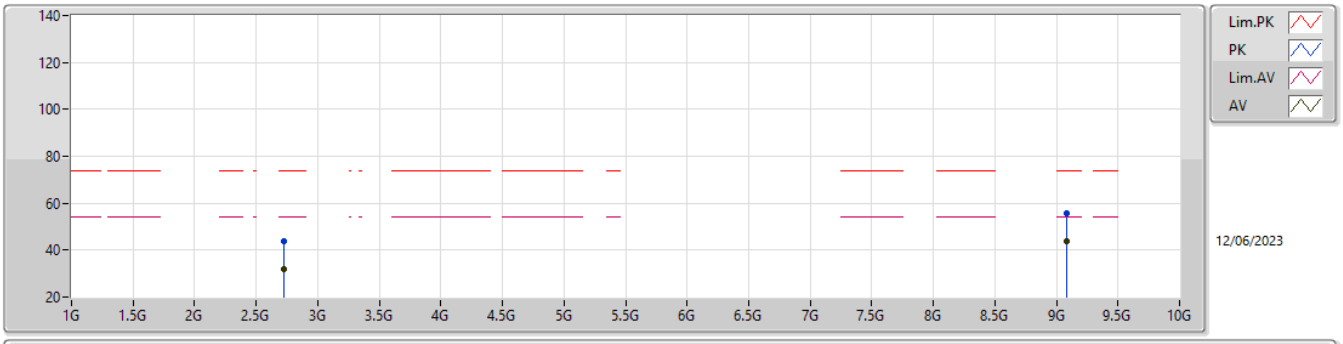
908MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.7231G	32.15	54.00	-21.85	-0.76	3	Vertical	360	3.00	32.91	28.30	4.96	34.02
AV	9.07827G	43.40	54.00	-10.60	12.72	3	Vertical	251	1.50	30.68	38.20	9.62	35.10
PK	2.72387G	44.70	74.00	-29.30	-0.77	3	Vertical	360	3.00	45.47	28.30	4.96	34.03
PK	9.0855G	55.42	74.00	-18.58	12.72	3	Vertical	251	1.50	42.70	38.20	9.63	35.11

902-928MHz_SRD_8MHz_Nss1_1TX

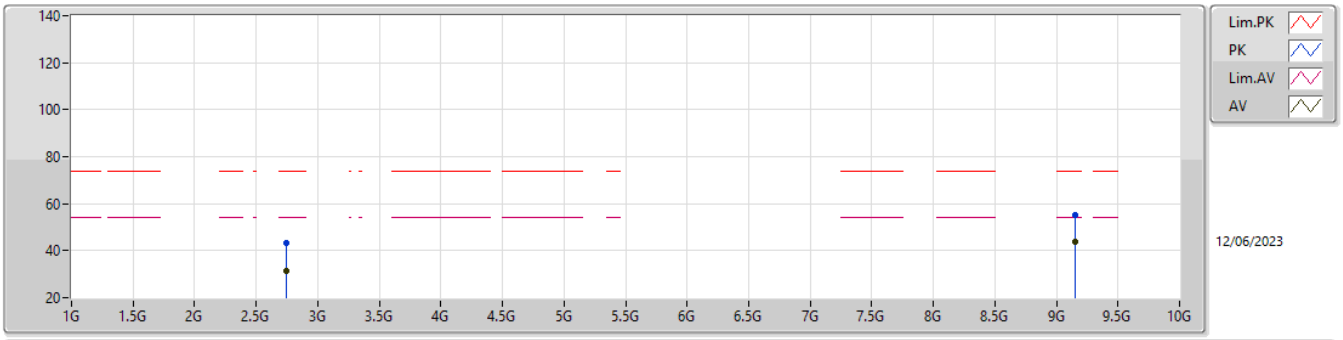
908MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.72424G	31.83	54.00	-22.17	-0.77	3	Horizontal	346	1.10	32.60	28.30	4.96	34.03
AV	9.08394G	43.57	54.00	-10.43	12.72	3	Horizontal	314	2.74	30.85	38.20	9.63	35.11
PK	2.72046G	43.90	74.00	-30.10	-0.77	3	Horizontal	346	1.10	44.67	28.30	4.95	34.02
PK	9.08704G	55.89	74.00	-18.11	12.72	3	Horizontal	314	2.74	43.17	38.20	9.63	35.11

902-928MHz_SRD_8MHz_Nss1_1TX

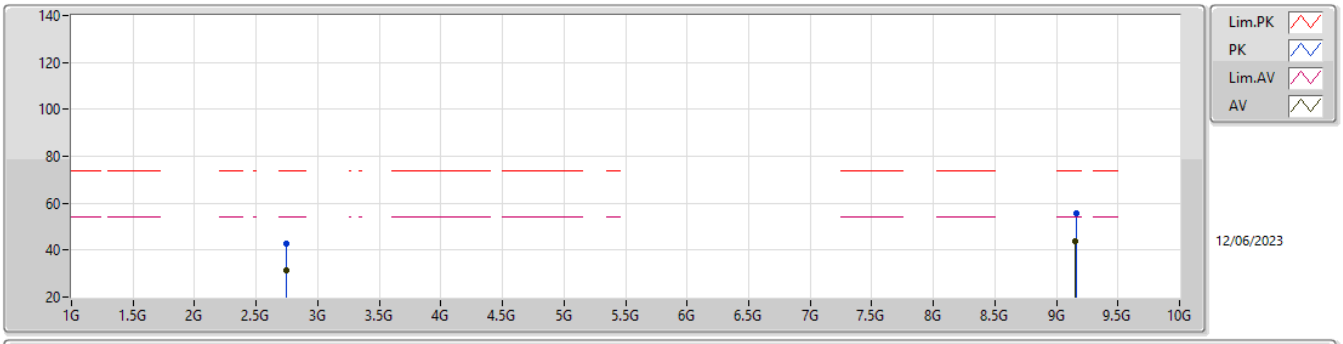
916MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.74714G	31.29	54.00	-22.71	-0.69	3	Vertical	360	2.57	31.98	28.30	5.04	34.03
AV	9.15475G	43.58	54.00	-10.42	13.08	3	Vertical	205	2.07	30.50	38.50	9.70	35.12
PK	2.74173G	43.05	74.00	-30.95	-0.71	3	Vertical	360	2.57	43.76	28.30	5.02	34.03
PK	9.15501G	54.92	74.00	-19.08	13.08	3	Vertical	205	2.07	41.84	38.50	9.70	35.12

902-928MHz_SRD_8MHz_Nss1_1TX

916MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.74528G	31.28	54.00	-22.72	-0.69	3	Horizontal	360	1.50	31.97	28.30	5.04	34.03
AV	9.15494G	43.71	54.00	-10.29	13.08	3	Horizontal	28	1.04	30.63	38.50	9.70	35.12
PK	2.74781G	42.80	74.00	-31.20	-0.68	3	Horizontal	360	1.50	43.48	28.30	5.05	34.03
PK	9.16291G	55.47	74.00	-18.53	13.09	3	Horizontal	28	1.04	42.38	38.50	9.71	35.12