FCC Radio Test Report

FCC ID	:	**2AZT5-481100627**
Equipment	:	**Semi Passive LED Tag**
Brand Name	:	**SAG**
Model Name	:	**481100627**
Applicant	:	**Securitag Assembly Group** **No.1, Gongye 9th Rd., Dali Industrial District Taichung 412, Taiwan**
Manufacturer	:	**Securitag Assembly Group** **No.1, Gongye 9th Rd., Dali Industrial District Taichung 412, Taiwan**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Mar. 09, 2021, and testing was started from Apr. 30, 2021 and completed on May 11, 2021. 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: Allen Lin

SPORTON INTERNATIONA

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

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PHOTOGRAPHS OF EUT V01

History of this test report

Report No.	Version	Description	Issued Date
FR0N0601-02	01	Initial issue of report	May 25, 2021

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
-	15.207	AC Power-line Conducted Emissions	Not Required	Only employ battery power.
3.1	15.247(a)	20dB Bandwidth	PASS	-
3.1	15.247(a)	Carrier Frequency Separation	PASS	-
3.2	15.247(b)	Maximum Conducted Output Power	PASS	-
3.3	15.247(a)	Number of Hopping Frequencies and Hopping Bandedge	PASS	-
3.4	15.247(a)	Time of Occupancy (Dwell Time)	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	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:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Tsai

Report Producer: Amber Chiu

1 General Description

1.1 Information

After the Tag (EUT) receives the signal that transmitted by the reader, the battery will assist the Tag (EUT) to provide a response (signal) to the reader.

1.1.1 RF General Information

Frequency Range (MHz)	Modulation	Ch. Frequency (MHz)	Channel Spacing (MHz)	Channel Number
902 ~ 928 MHz	ASK	902.75-927.25	0.5	50

Band	Mode	BWch (MHz)	Nant
902-928MHz	ASK	0.5	1TX

Note:
- 902 ~ 928 MHz Band uses as a system using ASK modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	SAG	340707195	PCB antenna	-	-10.55

1.1.3 Type of EUT

Operational Condition				
EUT Power Type	From Battery			
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 Test Signal Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
ASK_Nss1_1TX	0.155	8.1	11.7m	100

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 (**TAF:** 3785)	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		**FAX:** 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
RF Conducted	TH06-HY	Johnny Yu	20.1~26.9°C / 50~60%	03/May/2021~11/May/2021
Radiated	03CH02-HY	Daniel Lin	20.8~26.1°C / 51~57%	30/Apr/2021~01/May/2021
☐ 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	
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**
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 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
TnomVnom-FS	Tnom	20°C
-	Vnom	3V

2.2 Test Channel Mode

Test Software Version	Active UHF RFID Plus coding program V2

Mode	Power Setting
ASK_Nss1_1TX	-
902.75MHz	-9
915.25MHz	-9
927.25MHz	-9

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	RF Output Power, 20dB Bandwidth, Carrier Frequency Separation (ChS) Number of Hopping Frequencies (N), Hopping Bandedge Time of Occupancy (Dwell Time)
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	Battery mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
Worst Planes of EUT	V		

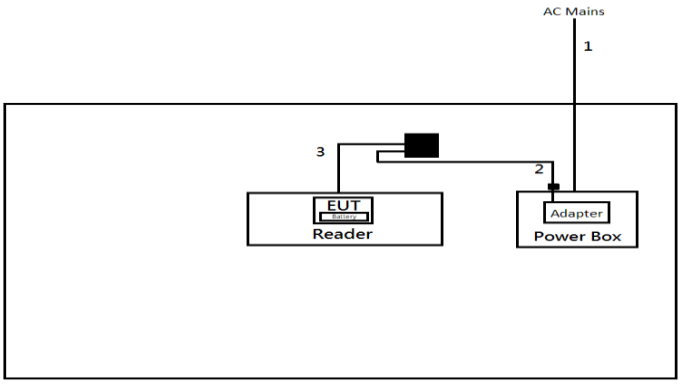
2.4 Support Equipment

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	UHF RFID Smart Reader	GIGA-TMS	GIGA-TMS	-	Provided by Customer
4	Adapter for Reader	MEAN WELL	GSM06U05	-	-
5	Battery	Panasonic	CR-2032TW	-	-
6	RS232 to USB cable	-	-	-	Provided by Customer

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	UHF RFID Smart Reader	GIGA-TMS	RF385R-10	-	Provided by Customer
2	Adapter for Reader	MEAN WELL	GSM06U05	-	-
3	Battery	Panasonic	CR-2032TW	-	-
4	RS232 to USB cable	-	-	-	Provided by Customer

2.5 Test Setup Diagram

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.0	-
3	RS232 to USB Cable	No	0.3	-

3 Transmitter Test Result

3.1 20dB Bandwidth and Carrier Frequency Separation

3.1.1 20dB Bandwidth and Carrier Frequency Separation Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪ 902-928 MHz Band:	
	▪ N ≥50 and ChS ≥ MAX (20 dB bandwidth, 25 kHz); 20 dB bandwidth≤ 250 kHz.
	▪ 50 >N≥25 and ChS ≥ MAX (20 dB bandwidth, 25 kHz); 20 dB bandwidth>250 kHz.
N: Number of Hopping Frequencies; **ChS**: Hopping Channel Separation	

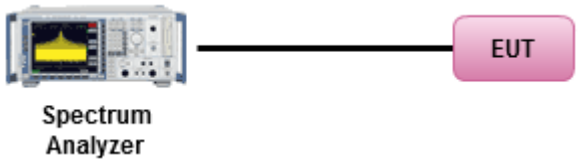
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup

20dB Bandwidth and Carrier Frequency Separation


3.1.5 Test Result of 20dB Bandwidth

Refer as Appendix A

3.1.6 Test Result of Carrier Frequency Separation

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10, clause 7.8.5 for output power measurement.

3.2.4 Test Setup

Maximum Conducted Output Power (Peak Power Meter)

3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Number of Hopping Frequencies and Hopping Bandedge

3.3.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit for Frequency Hopping Systems	
▪ 902-928 MHz Band:	
	▪ N ≥50 and ChS ≥ MAX (20 dB bandwidth, 25 kHz); 20 dB bandwidth≤ 250 kHz.
	▪ 50 >N≥ 25 and ChS ≥ MAX (20 dB bandwidth, 25 kHz); 20 dB bandwidth>250 kHz.
N: Number of Hopping Frequencies; **ChS**: Hopping Channel Separation	

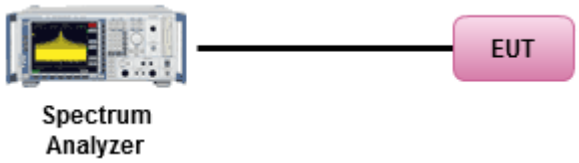
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup

Number of Hopping Frequencies


3.3.5 Test Result of Number of Hopping Frequencies

Refer as Appendix C

3.3.6 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix C

3.4 Time of Occupancy (Dwell Time)

3.4.1 Time of Occupancy (Dwell Time) Limit

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
▪ 902-928 MHz Band:	
	▪ N ≥50; 0.4s in 20s period
	▪ 50 >N≥ 25; 0.4s in 10s period
N:Number of Hopping Frequencies	

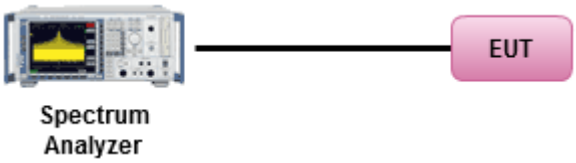
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup

Time of Occupancy (Dwell Time)


3.4.5 Test Result of Time of Occupancy (Dwell Time)

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
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.	

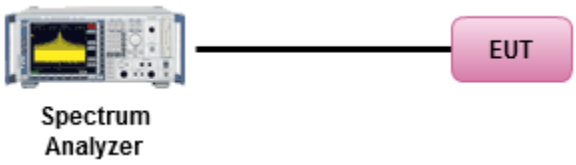
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10, clause 7.8.8 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands


3.5.5 Transmitter Radiated Bandedge Emissions

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 [hopping duty factor].	
▪ Refer as ANSI C63.10; clause 6.9.2.2 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.

3.6.4 Measurement Results Calculation

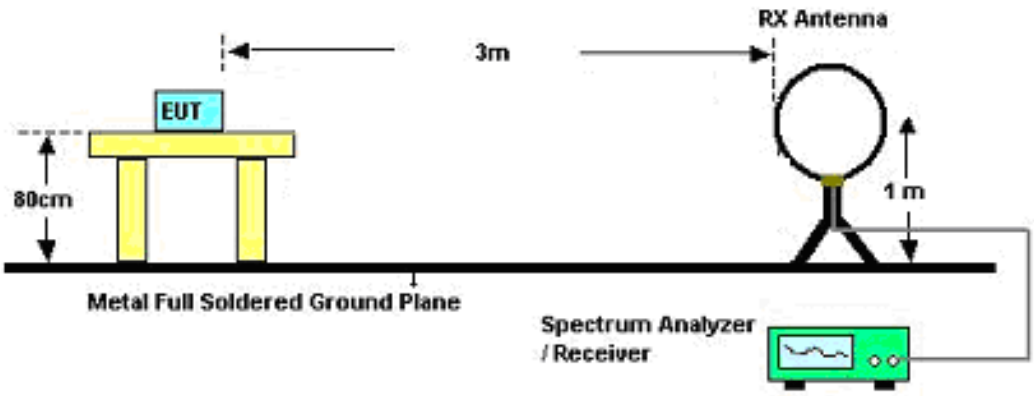
The measured Level is calculated using:

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

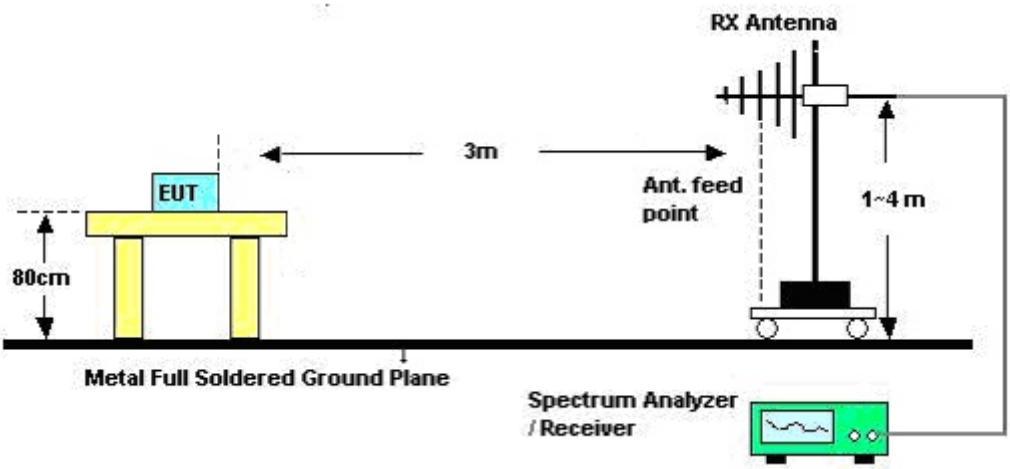
3.6.5 Test Setup

Emissions in Restricted Frequency Bands

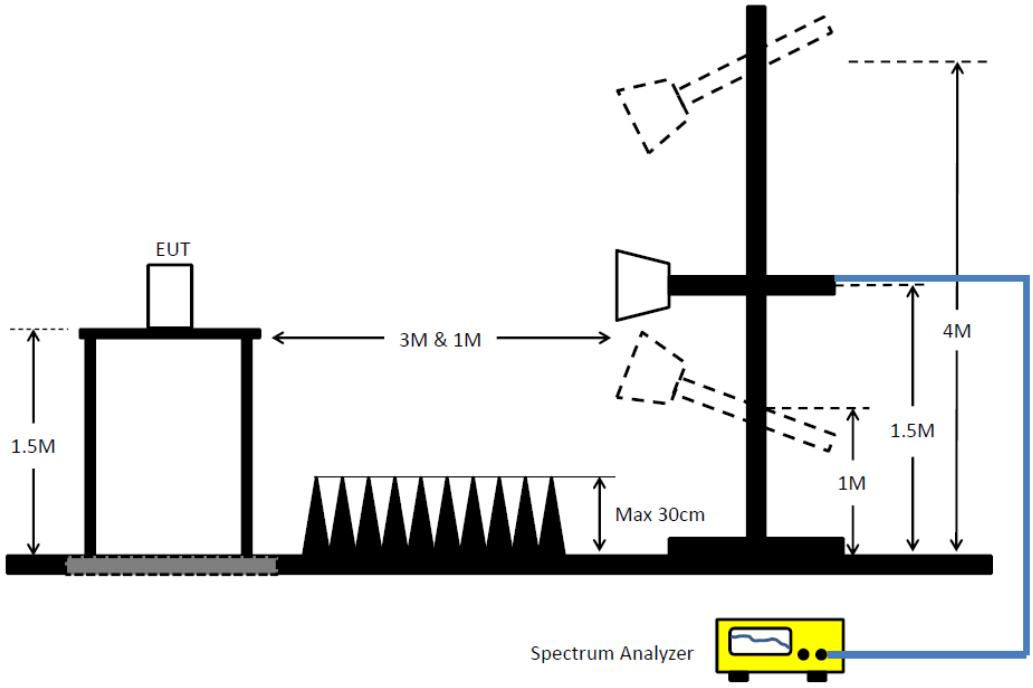
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.6 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.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

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	03CH02-HY	30MHz~1GHz 3m	04/Aug/2020	03/Aug/2021
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	02/Aug/2020	01/Aug/2021
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	12/Mar/2021	11/Mar/2022
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	30/Jun/2020	29/Jun/2021
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~18GHz	23/Oct/2020	22/Oct/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	09/Jun/2020	08/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz~30MHz	20/Jun/2020	19/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB017	30MHz~1GHz	23/Mar/2021	22/Mar/2022
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192/4	1GHz~40GHz	06/Apr/2021	05/Apr/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	09/Mar/2021	08/Mar/2022
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	18/Mar/2021	17/Mar/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021

Instrument for Conducted Test

Instrument	Manufacturer / Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	19/Oct/2020	18/Oct/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	25/Mar/2021	24/Mar/2022
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	25/Mar/2021	24/Mar/2022

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
ASK_Nss1_1TX	352.5k	346.875k	347KD1D	348.125k	346.25k

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

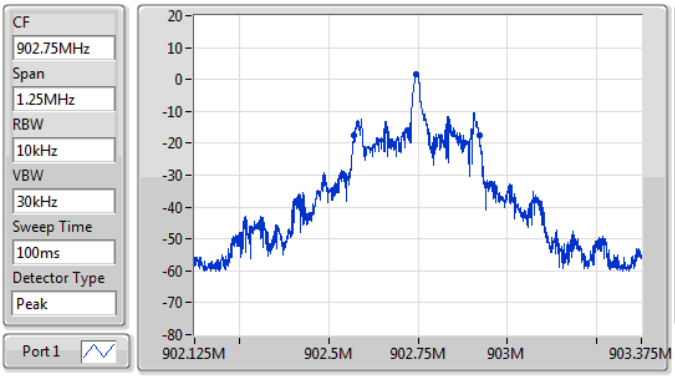
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
ASK_Nss1_1TX	-	-	-	-
902.75MHz	Pass	Inf	352.5k	346.25k
915.25MHz	Pass	Inf	348.75k	346.875k
927.25MHz	Pass	Inf	348.125k	346.875k

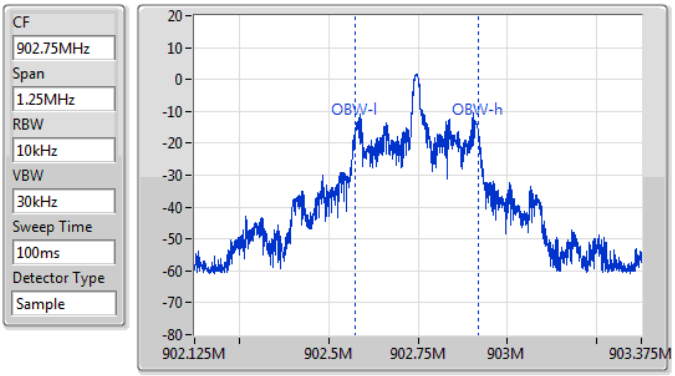
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

ASK_Nss1_1TX EBW-FS

902.75MHz

03/05/2021



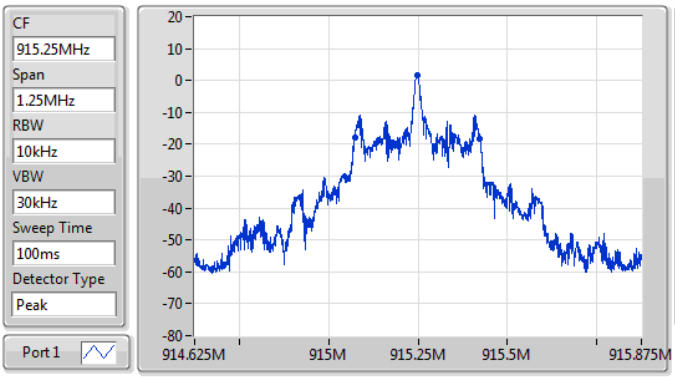


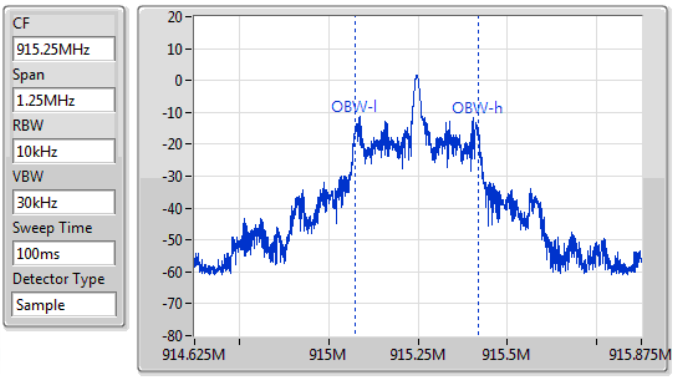
20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
352.5k	902.569375M	902.921875M	346.25k	902.5725M	902.91875M	Inf	1

ASK_Nss1_1TX EBW-FS

915.25MHz

03/05/2021



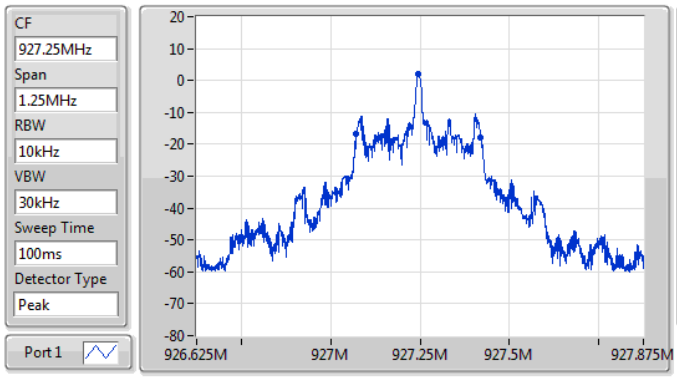


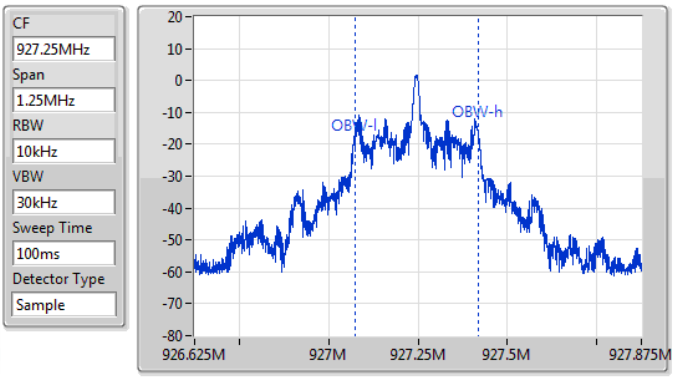
20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
348.75k	915.073125M	915.421875M	346.875k	915.0725M	915.419375M	Inf	1

ASK_Nss1_1TX **EBW-FS**

927.25MHz

03/05/2021





20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
348.125k	927.071875M	927.42M	346.875k	927.0725M	927.419375M	Inf	1

Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
902-928MHz	-	-
SRD_Nss1_1TX	501k	500.25k

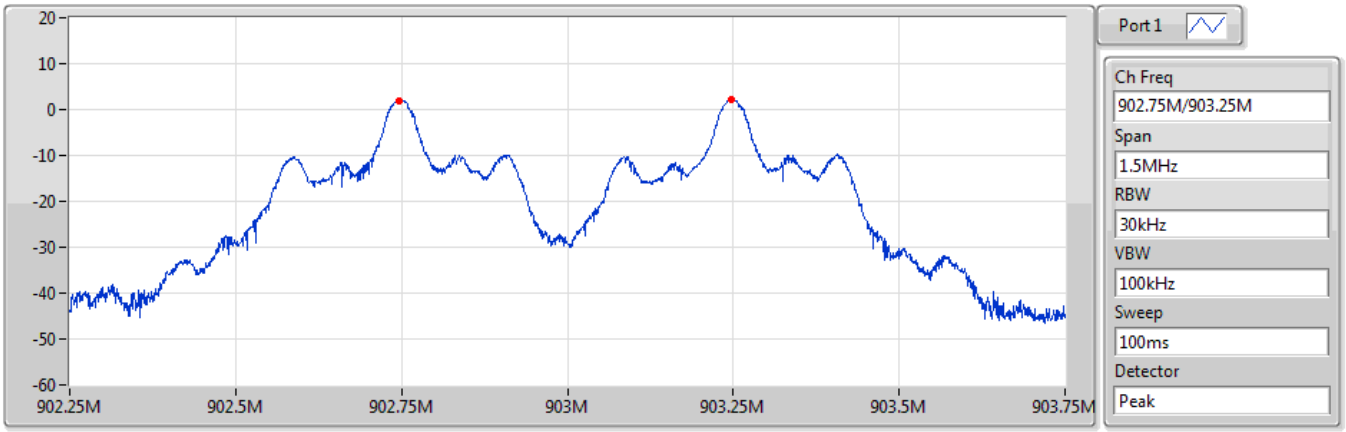
Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
SRD_Nss1_1TX	-	-	-	-	-
902.75MHz	Pass	902.74725M	903.2475M	500.25k	352.5k
915.25MHz	Pass	915.245M	915.74525M	500.25k	348.75k
927.25MHz	Pass	926.745M	927.246M	501k	348.125k

SRD_Nss1_1TX Channel Separation-FS

902.75M/903.25MHz

03/05/2021

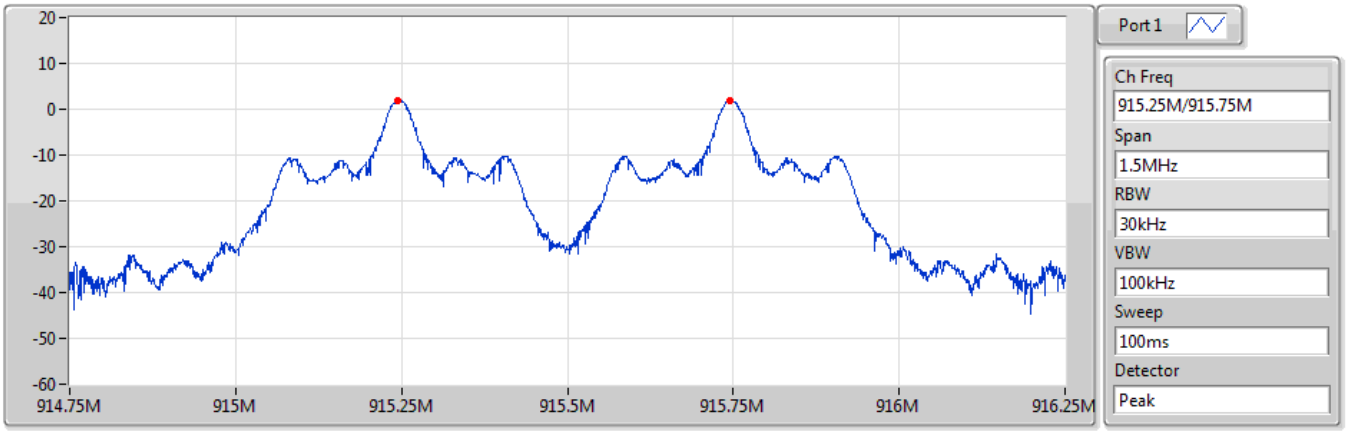


Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
902.74725M	903.2475M	500.25k	352.5k

SRD_Nss1_1TX Channel Separation-FS

915.25M/915.75MHz

03/05/2021

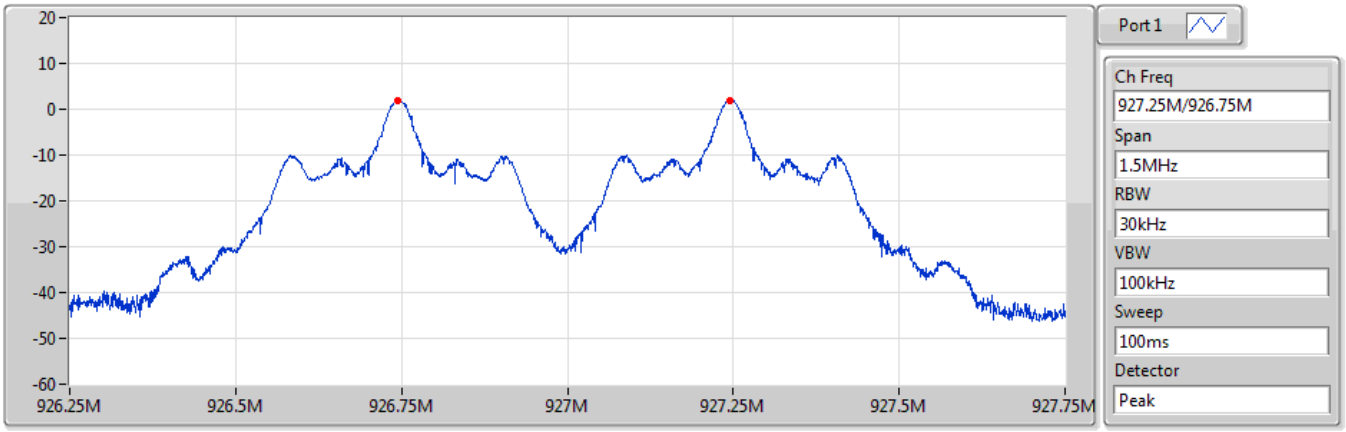


Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
915.245M	915.74525M	500.25k	348.75k

SRD_Nss1_1TX **Channel Separation-FS**

927.25M/926.75MHz

03/05/2021



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
926.745M	927.246M	501k	348.125k

Summary

Mode	Power (dBm)	Power (W)
902-928MHz	-	-
ASK_Nss1_1TX	1.78	0.00151

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
ASK_Nss1_1TX	-	-	-	-
902.75MHz	Pass	-10.55	1.78	24.00
915.25MHz	Pass	-10.55	1.38	24.00
927.25MHz	Pass	-10.55	1.75	24.00

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

Summary

Mode	Power (dBm)	Power (W)
902-928MHz	-	-
ASK_Nss1_1TX	-2.59	0.00055

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
ASK_Nss1_1TX	-	-	-	-
902.75MHz	Pass	-10.55	-2.59	24.00
915.25MHz	Pass	-10.55	-3.75	24.00
927.25MHz	Pass	-10.55	-3.47	24.00

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

Summary

Mode	Max-Hop No
902-928MHz	-
ASK_Nss1_1TX	50

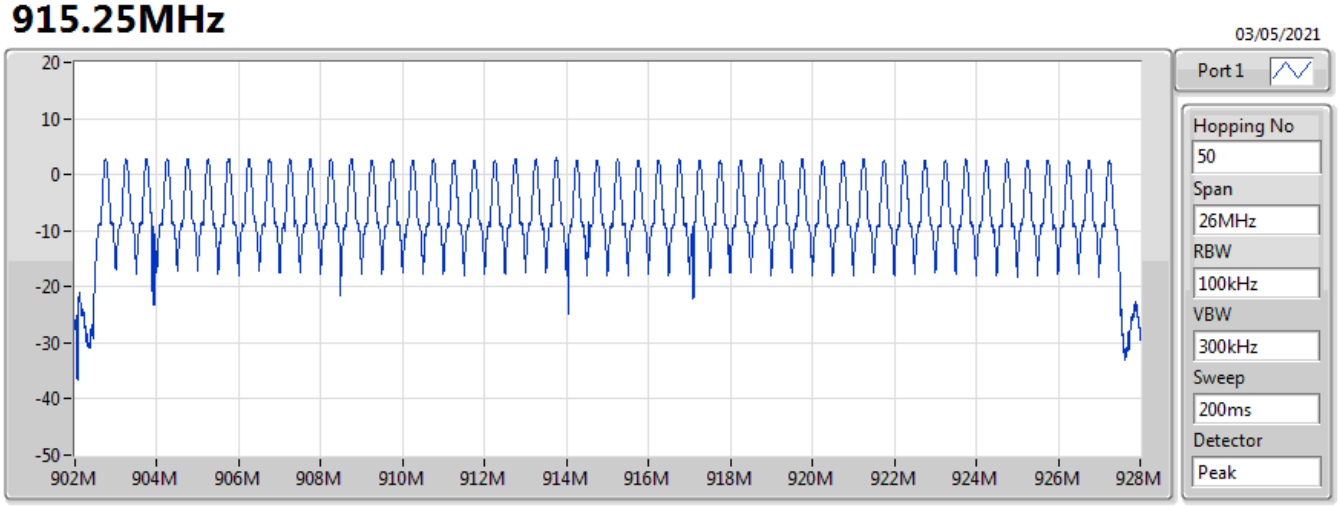
Result

Mode	Result	Hopping No	Limit
ASK_Nss1_1TX	-	-	-
915.25MHz	Pass	50	25

ASK_Nss1_1TX

915.25MHz

Hopping-FS

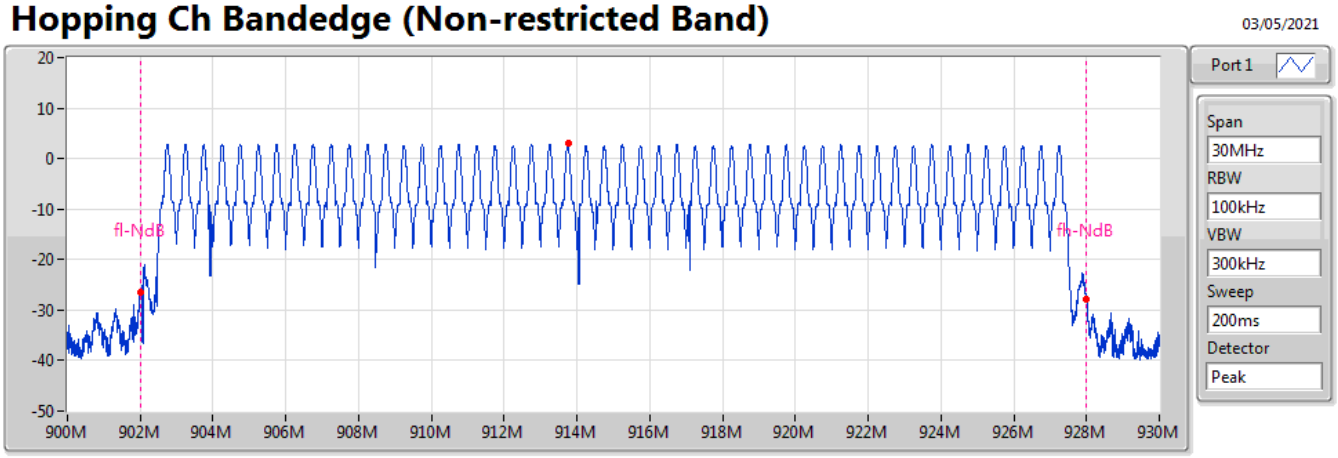


Hopping No	Limit
50	25

ASK_Nss1_1TX

915.25MHz

Hopping Ch Bandedge (Non-restricted Band)



Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-17.08	913.75125M	2.92	901.995M	-26.47	928.00125M	-27.89

Summary

Mode	Max-Dwell (s)
902-928MHz	-
SRD_Nss1_1TX	159.4m__

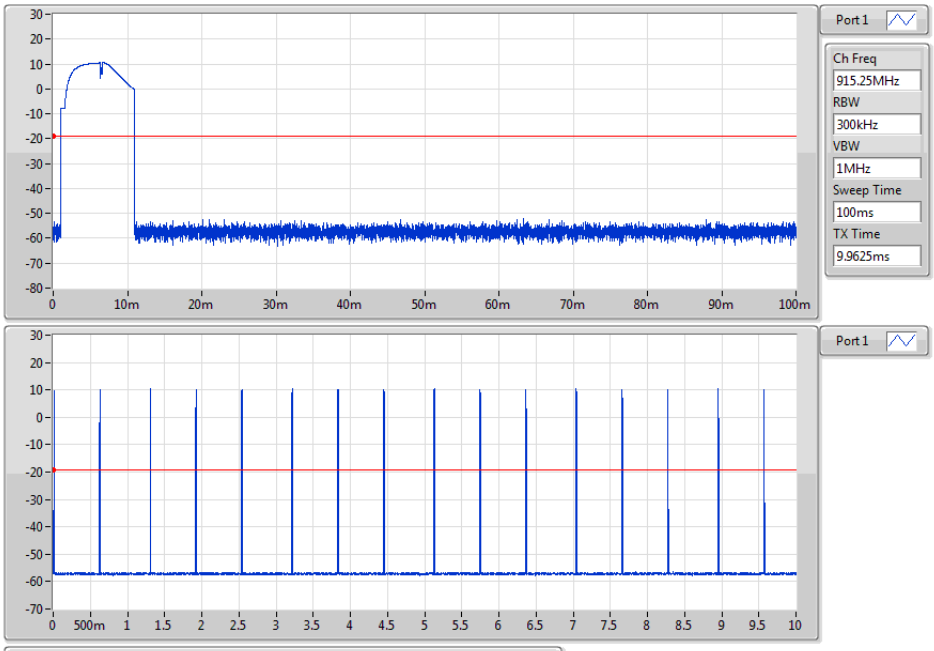
Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
SRD_Nss1_1TX	-	-	-	-	-
915.25MHz	Pass	10	159.4m__	400m	9.9625m

SRD_Nss1_1TX **Dwell-FS**

915.25MHz

11/05/2021



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
10	159.4m_	400m	9.9625m

Summary

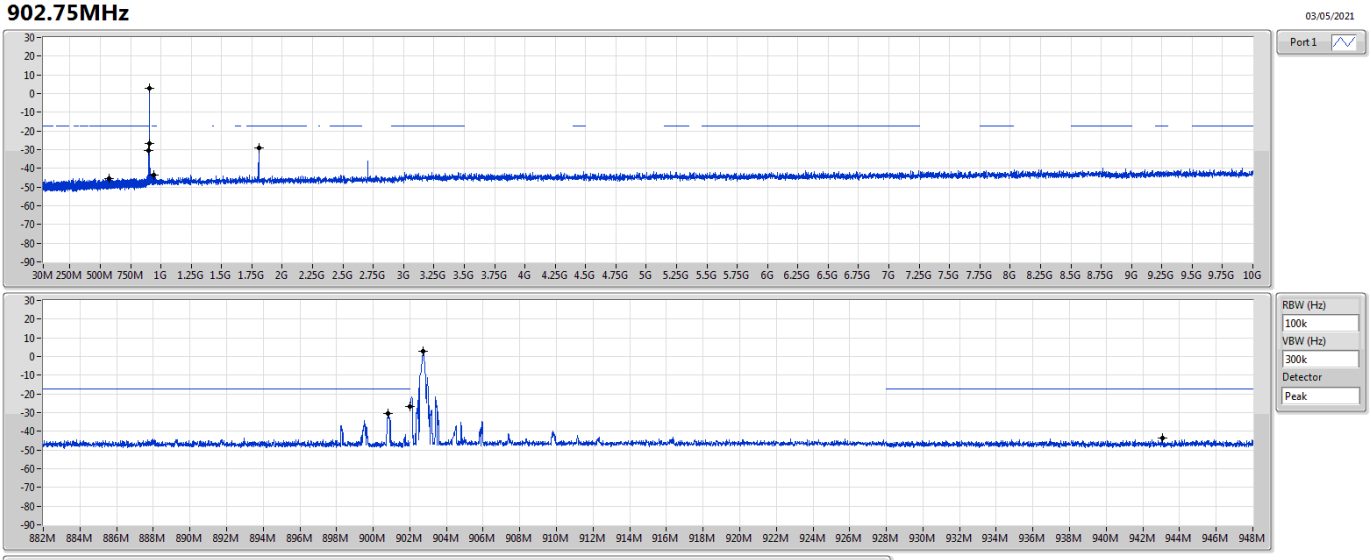
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
902-928MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ASK_Nss1_1TX	Pass	902.74M	2.72	-17.28	569.85M	-45.39	900.83M	-30.61	902M	-26.56	943.08M	-43.80	1.80568G	-29.16	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
ASK_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
902.75MHz	Pass	902.74M	2.72	-17.28	569.85M	-45.39	900.83M	-30.61	902M	-26.56	943.08M	-43.80	1.80568G	-29.16	1
915.25MHz	Pass	915.25M	2.36	-17.64	625.97M	-43.71	890.9M	-43.99	902M	-45.31	928.17M	-43.62	1.83057G	-32.11	1
927.25MHz	Pass	927.25M	2.20	-17.80	775.29M	-45.08	900.03M	-43.99	928M	-46.37	945.21M	-44.19	1.85433G	-32.24	1

ASK_Nss1_1TX **CSENdB-FS**

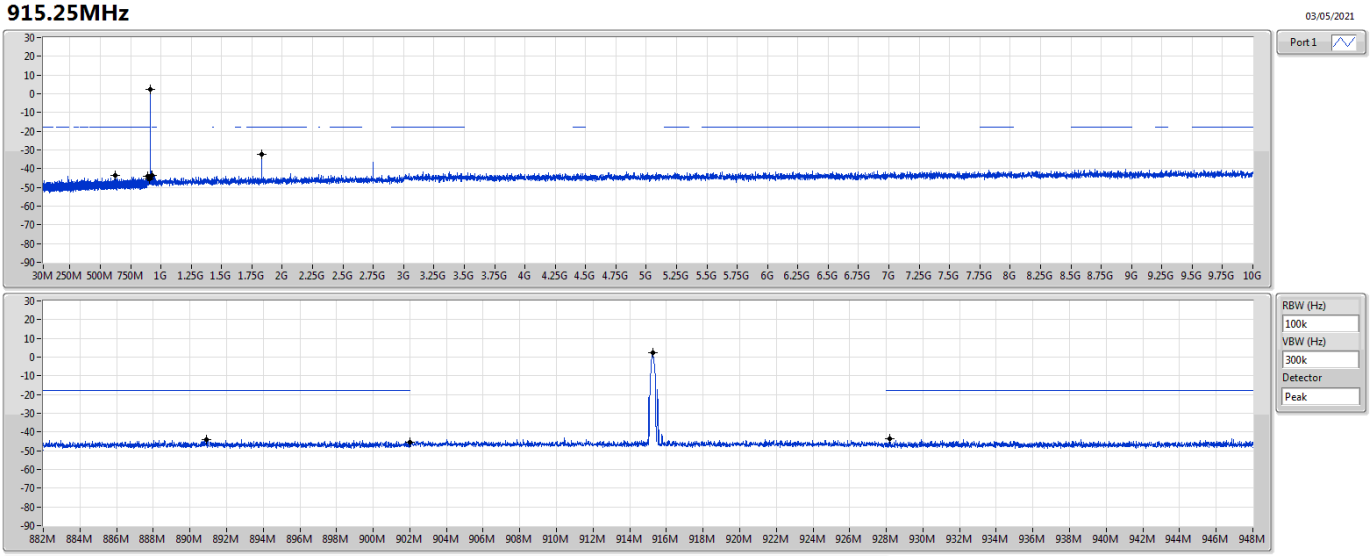
902.75MHz



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
902.74M	2.72	-17.28	569.85M	-45.39	900.83M	-30.61	902M	-26.56	943.08M	-43.80	1.80568G	-29.16	1

ASK_Nss1_1TX **CSENdB-FS**

915.25MHz

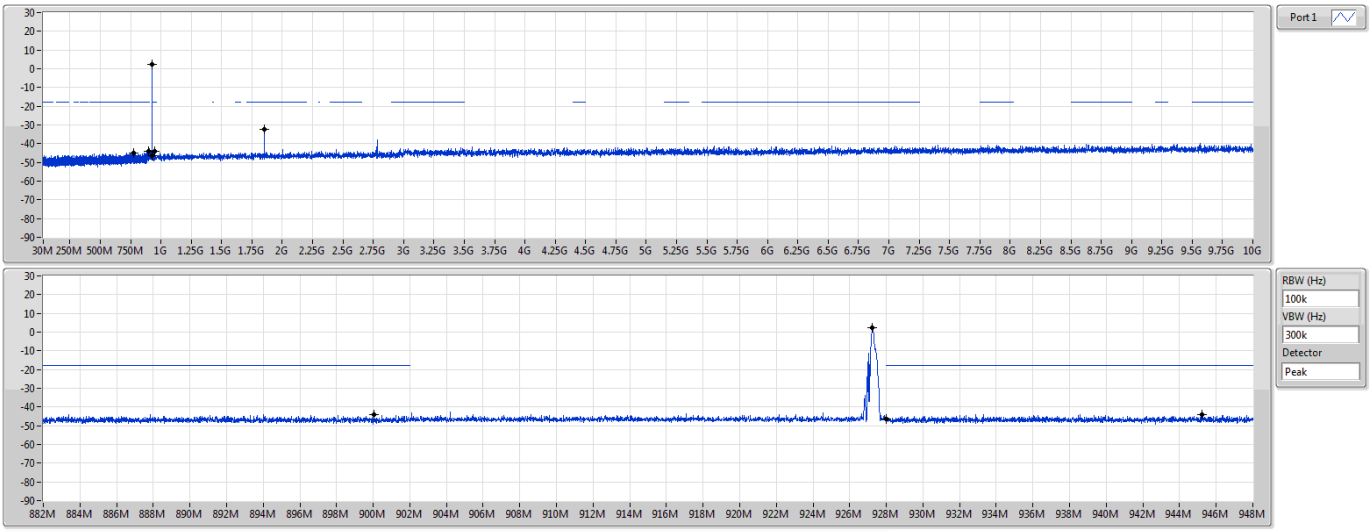


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
915.25M	2.36	-17.64	625.97M	-43.71	890.9M	-43.99	902M	-45.31	928.17M	-43.62	1.83057G	-32.11	1

ASK_Nss1_1TX **CSENdB-FS**

927.25MHz

03/05/2021



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
927.25M	2.20	-17.80	775.29M	-45.08	900.03M	-43.99	928M	-46.37	945.21M	-44.19	1.85433G	-32.24	1

Summary

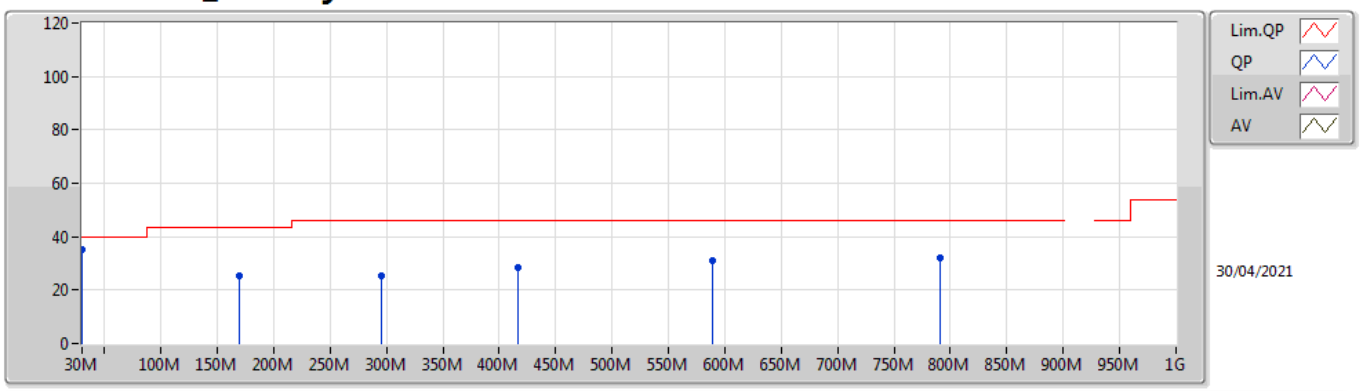
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
902-928MHz	-	-	-	-	-	-	-	-	-	-	-
ASK_Nss1_1TX	Pass	PK	30M	35.19	40.00	-4.81	3	Vertical	360	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
ASK_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-
915.25MHz	Pass	PK	30M	35.19	40.00	-4.81	3	Vertical	360	1.00	-
915.25MHz	Pass	PK	169.68M	25.40	43.50	-18.10	3	Vertical	360	1.00	-
915.25MHz	Pass	PK	295.78M	25.30	46.00	-20.70	3	Vertical	360	1.00	-
915.25MHz	Pass	PK	416.06M	28.23	46.00	-17.77	3	Vertical	360	1.00	-
915.25MHz	Pass	PK	588.72M	30.86	46.00	-15.14	3	Vertical	360	1.00	-
915.25MHz	Pass	PK	790.48M	32.30	46.00	-13.70	3	Vertical	360	1.00	-
915.25MHz	Pass	PK	49.4M	31.86	40.00	-8.14	3	Horizontal	0	1.00	-
915.25MHz	Pass	PK	140.58M	22.51	43.50	-20.99	3	Horizontal	0	1.00	-
915.25MHz	Pass	PK	262.8M	24.18	46.00	-21.82	3	Horizontal	0	1.00	-
915.25MHz	Pass	PK	392.78M	27.19	46.00	-18.81	3	Horizontal	0	1.00	-
915.25MHz	Pass	PK	497.54M	29.50	46.00	-16.50	3	Horizontal	0	1.00	-
915.25MHz	Pass	PK	745.86M	31.82	46.00	-14.18	3	Horizontal	0	1.00	-

ASK_Nss1_1TX

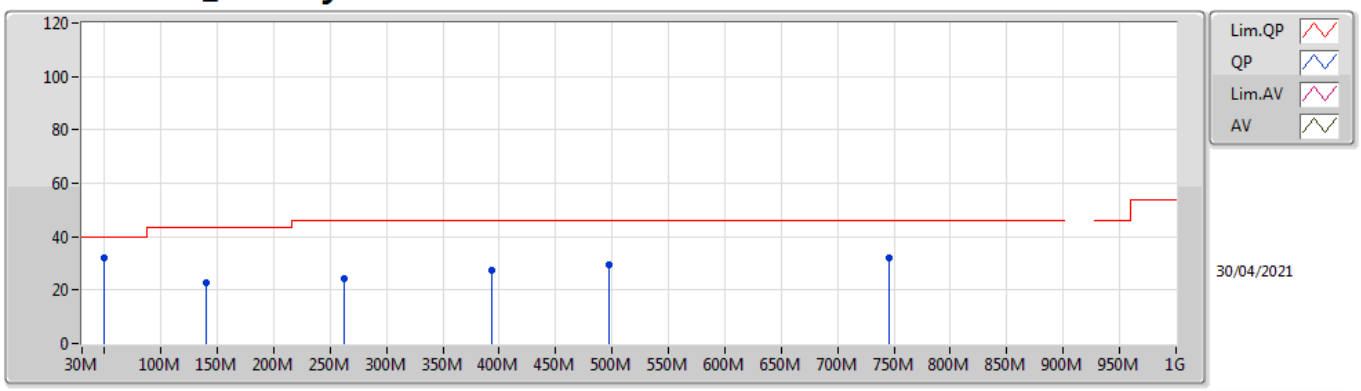
915.25MHz_Battery



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	30M	35.19	40.00	-4.81	-2.99	3	Vertical	360	1.00	-	38.18	23.32	0.90	27.21
PK	169.68M	25.40	43.50	-18.10	-10.58	3	Vertical	360	1.00	-	35.98	14.85	2.06	27.49
PK	295.78M	25.30	46.00	-20.70	-5.95	3	Vertical	360	1.00	-	31.25	18.32	2.77	27.04
PK	416.06M	28.23	46.00	-17.77	-2.67	3	Vertical	360	1.00	-	30.90	21.84	3.33	27.84
PK	588.72M	30.86	46.00	-15.14	-0.45	3	Vertical	360	1.00	-	31.31	23.88	4.00	28.33
PK	790.48M	32.30	46.00	-13.70	2.03	3	Vertical	360	1.00	-	30.27	25.10	4.75	27.82

ASK_Nss1_1TX

915.25MHz_Battery



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	49.4M	31.86	40.00	-8.14	-13.13	3	Horizontal	0	1.00	-	44.99	13.40	1.16	27.69
PK	140.58M	22.51	43.50	-20.99	-9.56	3	Horizontal	0	1.00	-	32.07	16.20	1.86	27.62
PK	262.8M	24.18	46.00	-21.82	-5.76	3	Horizontal	0	1.00	-	29.94	18.67	2.62	27.05
PK	392.78M	27.19	46.00	-18.81	-3.74	3	Horizontal	0	1.00	-	30.93	20.69	3.24	27.67
PK	497.54M	29.50	46.00	-16.50	-1.82	3	Horizontal	0	1.00	-	31.32	22.78	3.67	28.27
PK	745.86M	31.82	46.00	-14.18	1.43	3	Horizontal	0	1.00	-	30.39	24.90	4.54	28.01

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
902-928MHz	-	-	-	-	-	-	-	-	-	-	-
ASK_Nss1_1TX	Pass	AV	2.74573G	52.94	54.00	-1.06	3	Horizontal	339	1.17	-

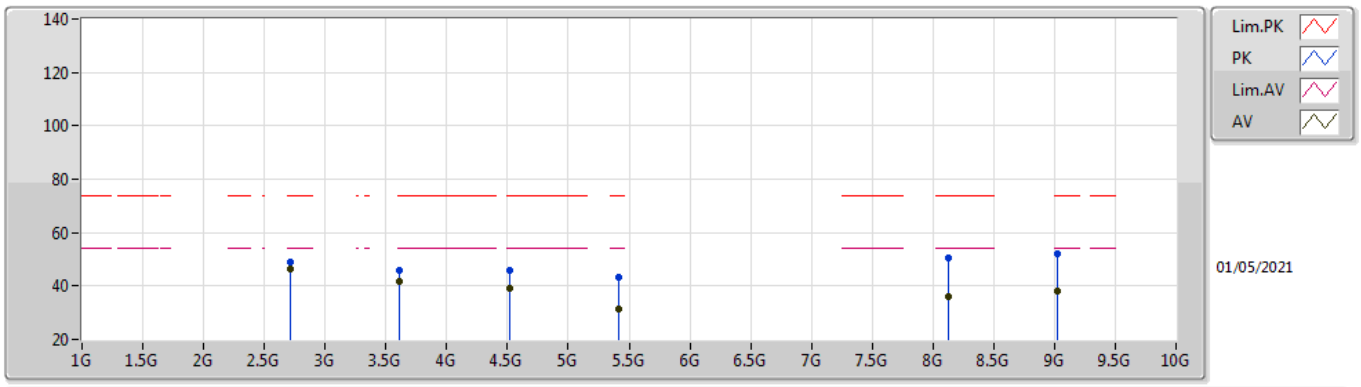
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
ASK_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-
902.75MHz	Pass	AV	2.70833G	46.29	54.00	-7.71	3	Vertical	62	1.00	-
902.75MHz	Pass	AV	3.61097G	41.52	54.00	-12.48	3	Vertical	221	1.19	-
902.75MHz	Pass	AV	4.5137G	38.98	54.00	-15.02	3	Vertical	320	1.01	-
902.75MHz	Pass	AV	5.41647G	31.62	54.00	-22.38	3	Vertical	235	1.45	-
902.75MHz	Pass	AV	8.12378G	36.29	54.00	-17.71	3	Vertical	223	1.28	-
902.75MHz	Pass	AV	9.02751G	38.06	54.00	-15.94	3	Vertical	287	1.89	-
902.75MHz	Pass	PK	2.70825G	49.17	74.00	-24.83	3	Vertical	62	1.00	-
902.75MHz	Pass	PK	3.61097G	45.67	74.00	-28.33	3	Vertical	221	1.19	-
902.75MHz	Pass	PK	4.51358G	45.82	74.00	-28.18	3	Vertical	320	1.01	-
902.75MHz	Pass	PK	5.4169G	43.50	74.00	-30.50	3	Vertical	235	1.45	-
902.75MHz	Pass	PK	8.12542G	50.67	74.00	-23.33	3	Vertical	223	1.28	-
902.75MHz	Pass	PK	9.02757G	52.21	74.00	-21.79	3	Vertical	287	1.89	-
902.75MHz	Pass	AV	2.70824G	52.34	54.00	-1.66	3	Horizontal	360	1.50	-
902.75MHz	Pass	AV	3.61097G	50.47	54.00	-3.53	3	Horizontal	40	2.69	-
902.75MHz	Pass	AV	4.51371G	44.00	54.00	-10.00	3	Horizontal	12	2.87	-
902.75MHz	Pass	AV	5.4165G	32.85	54.00	-21.15	3	Horizontal	360	1.27	-
902.75MHz	Pass	AV	8.12383G	36.04	54.00	-17.96	3	Horizontal	86	1.06	-
902.75MHz	Pass	AV	9.02805G	37.98	54.00	-16.02	3	Horizontal	137	2.29	-
902.75MHz	Pass	PK	2.70819G	53.67	74.00	-20.33	3	Horizontal	360	1.50	-
902.75MHz	Pass	PK	3.61101G	52.43	74.00	-21.57	3	Horizontal	40	2.69	-
902.75MHz	Pass	PK	4.51373G	48.86	74.00	-25.14	3	Horizontal	12	2.87	-
902.75MHz	Pass	PK	5.41647G	44.06	74.00	-29.94	3	Horizontal	360	1.27	-
902.75MHz	Pass	PK	8.12527G	49.90	74.00	-24.10	3	Horizontal	86	1.06	-
902.75MHz	Pass	PK	9.02808G	51.68	74.00	-22.32	3	Horizontal	137	2.29	-
915.25MHz	Pass	AV	2.74572G	46.11	54.00	-7.89	3	Vertical	257	1.46	-
915.25MHz	Pass	AV	3.66095G	43.37	54.00	-10.63	3	Vertical	220	1.23	-
915.25MHz	Pass	AV	4.5762G	38.39	54.00	-15.61	3	Vertical	331	1.40	-
915.25MHz	Pass	AV	7.32172G	35.81	54.00	-18.19	3	Vertical	274	1.12	-
915.25MHz	Pass	AV	8.2363G	36.81	54.00	-17.19	3	Vertical	322	1.72	-
915.25MHz	Pass	AV	9.15158G	39.20	54.00	-14.80	3	Vertical	227	1.20	-
915.25MHz	Pass	PK	2.74571G	48.91	74.00	-25.09	3	Vertical	257	1.46	-
915.25MHz	Pass	PK	3.66087G	46.78	74.00	-27.22	3	Vertical	220	1.23	-
915.25MHz	Pass	PK	4.57626G	46.40	74.00	-27.60	3	Vertical	331	1.40	-
915.25MHz	Pass	PK	7.32243G	49.34	74.00	-24.66	3	Vertical	274	1.12	-
915.25MHz	Pass	PK	8.23732G	50.96	74.00	-23.04	3	Vertical	322	1.72	-
915.25MHz	Pass	PK	9.15347G	54.26	74.00	-19.74	3	Vertical	227	1.20	-
915.25MHz	Pass	AV	2.74573G	52.94	54.00	-1.06	3	Horizontal	339	1.17	-
915.25MHz	Pass	AV	3.66081G	47.13	54.00	-6.87	3	Horizontal	35	1.49	-
915.25MHz	Pass	AV	4.57621G	46.96	54.00	-7.04	3	Horizontal	4	2.46	-
915.25MHz	Pass	AV	7.32222G	35.73	54.00	-18.27	3	Horizontal	94	1.83	-
915.25MHz	Pass	AV	8.23641G	36.99	54.00	-17.01	3	Horizontal	182	1.11	-
915.25MHz	Pass	AV	9.15154G	39.13	54.00	-14.87	3	Horizontal	245	1.36	-
915.25MHz	Pass	PK	2.74574G	54.17	74.00	-19.83	3	Horizontal	339	1.17	-
915.25MHz	Pass	PK	3.66095G	50.91	74.00	-23.09	3	Horizontal	35	1.49	-
915.25MHz	Pass	PK	4.57611G	50.56	74.00	-23.44	3	Horizontal	4	2.46	-
915.25MHz	Pass	PK	7.32296G	50.10	74.00	-23.90	3	Horizontal	94	1.83	-
915.25MHz	Pass	PK	8.23667G	50.89	74.00	-23.11	3	Horizontal	182	1.11	-
915.25MHz	Pass	PK	9.15266G	52.96	74.00	-21.04	3	Horizontal	245	1.36	-
927.25MHz	Pass	AV	2.78172G	47.75	54.00	-6.25	3	Vertical	262	1.46	-
927.25MHz	Pass	AV	3.70897G	42.50	54.00	-11.50	3	Vertical	231	1.16	-
927.25MHz	Pass	AV	4.63621G	38.32	54.00	-15.68	3	Vertical	114	1.00	-
927.25MHz	Pass	AV	7.41751G	35.50	54.00	-18.50	3	Vertical	185	1.61	-
927.25MHz	Pass	AV	8.34471G	35.94	54.00	-18.06	3	Vertical	256	1.34	-
927.25MHz	Pass	PK	2.78172G	49.71	74.00	-24.29	3	Vertical	262	1.46	-
927.25MHz	Pass	PK	3.70902G	45.93	74.00	-28.07	3	Vertical	231	1.16	-
927.25MHz	Pass	PK	4.63616G	45.56	74.00	-28.44	3	Vertical	114	1.00	-
927.25MHz	Pass	PK	7.41735G	50.19	74.00	-23.81	3	Vertical	185	1.61	-
927.25MHz	Pass	PK	8.34468G	49.78	74.00	-24.22	3	Vertical	256	1.34	-
927.25MHz	Pass	AV	2.78173G	51.29	54.00	-2.71	3	Horizontal	324	1.50	-
927.25MHz	Pass	AV	3.70898G	47.25	54.00	-6.75	3	Horizontal	30	2.58	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
927.25MHz	Pass	AV	4.63622G	41.08	54.00	-12.92	3	Horizontal	9	2.75	-
927.25MHz	Pass	AV	7.41788G	35.54	54.00	-18.46	3	Horizontal	6	1.05	-
927.25MHz	Pass	AV	8.34499G	35.91	54.00	-18.09	3	Horizontal	205	1.70	-
927.25MHz	Pass	PK	2.78171G	52.60	74.00	-21.40	3	Horizontal	324	1.50	-
927.25MHz	Pass	PK	3.70903G	49.27	74.00	-24.73	3	Horizontal	30	2.58	-
927.25MHz	Pass	PK	4.63626G	46.44	74.00	-27.56	3	Horizontal	9	2.75	-
927.25MHz	Pass	PK	7.41784G	50.26	74.00	-23.74	3	Horizontal	6	1.05	-
927.25MHz	Pass	PK	8.3454G	49.88	74.00	-24.12	3	Horizontal	205	1.70	-

ASK_Nss1_1TX

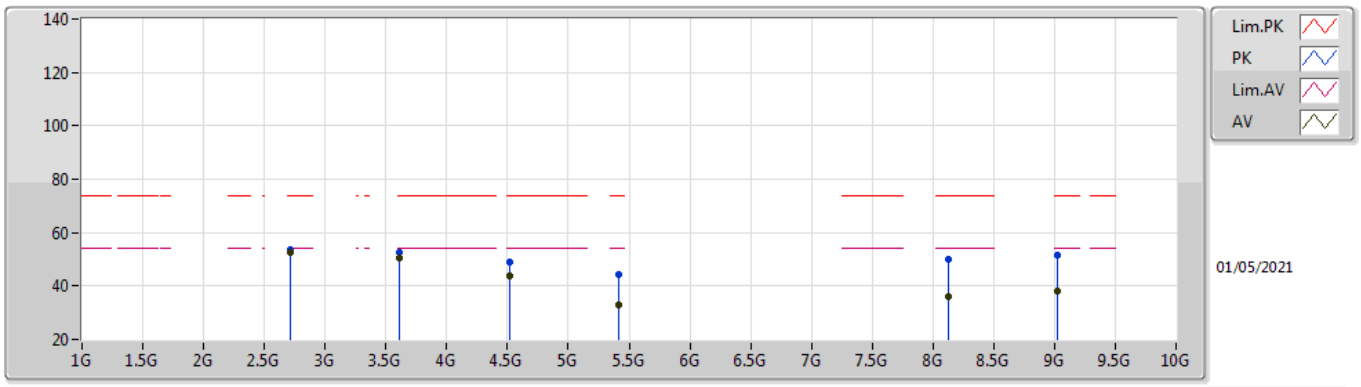
902.75MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.70833G	46.29	54.00	-7.71	1.02	3	Vertical	62	1.00	-	45.27	27.90	7.50	34.38
AV	3.61097G	41.52	54.00	-12.48	1.97	3	Vertical	221	1.19	-	39.55	28.90	7.48	34.41
AV	4.5137G	38.98	54.00	-15.02	4.76	3	Vertical	320	1.01	-	34.22	30.53	8.62	34.39
AV	5.41647G	31.62	54.00	-22.38	6.46	3	Vertical	235	1.45	-	25.16	31.40	9.31	34.25
AV	8.12378G	36.29	54.00	-17.71	13.14	3	Vertical	223	1.28	-	23.15	36.95	10.93	34.74
AV	9.02751G	38.06	54.00	-15.94	14.46	3	Vertical	287	1.89	-	23.60	37.56	11.70	34.80
PK	2.70825G	49.17	74.00	-24.83	1.02	3	Vertical	62	1.00	-	48.15	27.90	7.50	34.38
PK	3.61097G	45.67	74.00	-28.33	1.97	3	Vertical	221	1.19	-	43.70	28.90	7.48	34.41
PK	4.51358G	45.82	74.00	-28.18	4.76	3	Vertical	320	1.01	-	41.06	30.53	8.62	34.39
PK	5.4169G	43.50	74.00	-30.50	6.46	3	Vertical	235	1.45	-	37.04	31.40	9.31	34.25
PK	8.12542G	50.67	74.00	-23.33	13.14	3	Vertical	223	1.28	-	37.53	36.95	10.93	34.74
PK	9.02757G	52.21	74.00	-21.79	14.46	3	Vertical	287	1.89	-	37.75	37.56	11.70	34.80

ASK_Nss1_1TX

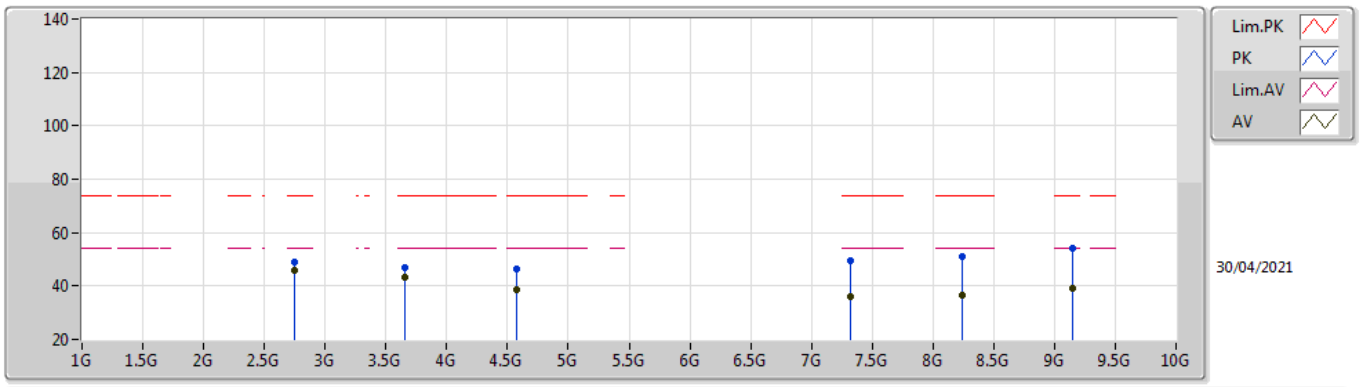
902.75MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.70824G	52.34	54.00	-1.66	1.02	3	Horizontal	360	1.50	-	51.32	27.90	7.50	34.38
AV	3.61097G	50.47	54.00	-3.53	1.97	3	Horizontal	40	2.69	-	48.50	28.90	7.48	34.41
AV	4.51371G	44.00	54.00	-10.00	4.76	3	Horizontal	12	2.87	-	39.24	30.53	8.62	34.39
AV	5.4165G	32.85	54.00	-21.15	6.46	3	Horizontal	360	1.27	-	26.39	31.40	9.31	34.25
AV	8.12383G	36.04	54.00	-17.96	13.14	3	Horizontal	86	1.06	-	22.90	36.95	10.93	34.74
AV	9.02805G	37.98	54.00	-16.02	14.46	3	Horizontal	137	2.29	-	23.52	37.56	11.70	34.80
PK	2.70819G	53.67	74.00	-20.33	1.02	3	Horizontal	360	1.50	-	52.65	27.90	7.50	34.38
PK	3.61101G	52.43	74.00	-21.57	1.97	3	Horizontal	40	2.69	-	50.46	28.90	7.48	34.41
PK	4.51373G	48.86	74.00	-25.14	4.76	3	Horizontal	12	2.87	-	44.10	30.53	8.62	34.39
PK	5.41647G	44.06	74.00	-29.94	6.46	3	Horizontal	360	1.27	-	37.60	31.40	9.31	34.25
PK	8.12527G	49.90	74.00	-24.10	13.14	3	Horizontal	86	1.06	-	36.76	36.95	10.93	34.74
PK	9.02808G	51.68	74.00	-22.32	14.46	3	Horizontal	137	2.29	-	37.22	37.56	11.70	34.80

ASK_Nss1_1TX

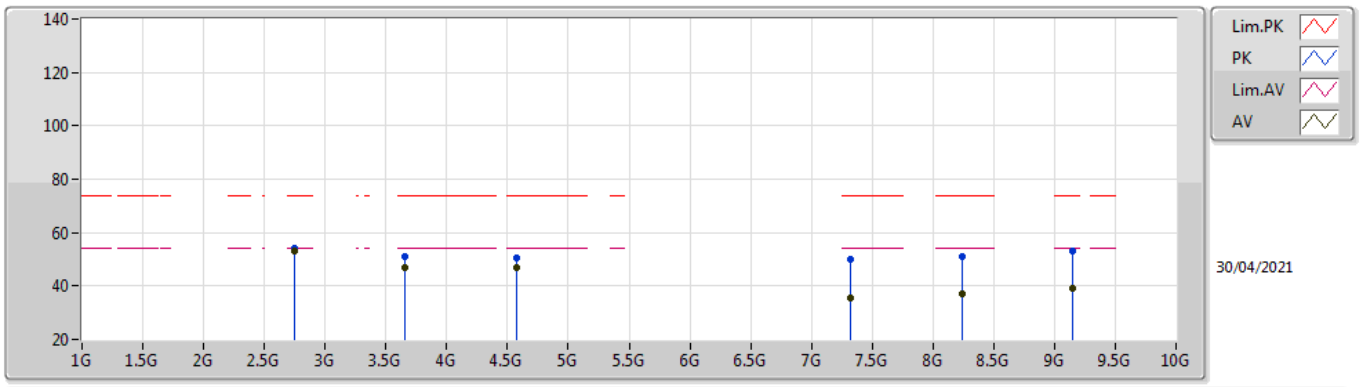
915.25MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.74572G	46.11	54.00	-7.89	1.03	3	Vertical	257	1.46	-	45.08	27.90	7.52	34.39
AV	3.66095G	43.37	54.00	-10.63	2.15	3	Vertical	220	1.23	-	41.22	28.92	7.64	34.41
AV	4.5762G	38.39	54.00	-15.61	5.00	3	Vertical	331	1.40	-	33.39	30.70	8.66	34.36
AV	7.32172G	35.81	54.00	-18.19	12.36	3	Vertical	274	1.12	-	23.45	36.31	10.63	34.58
AV	8.2363G	36.81	54.00	-17.19	12.88	3	Vertical	322	1.72	-	23.93	36.63	10.98	34.73
AV	9.15158G	39.20	54.00	-14.80	14.87	3	Vertical	227	1.20	-	24.33	38.11	11.61	34.85
PK	2.74571G	48.91	74.00	-25.09	1.03	3	Vertical	257	1.46	-	47.88	27.90	7.52	34.39
PK	3.66087G	46.78	74.00	-27.22	2.15	3	Vertical	220	1.23	-	44.63	28.92	7.64	34.41
PK	4.57626G	46.40	74.00	-27.60	5.01	3	Vertical	331	1.40	-	41.39	30.71	8.66	34.36
PK	7.32243G	49.34	74.00	-24.66	12.36	3	Vertical	274	1.12	-	36.98	36.31	10.63	34.58
PK	8.23732G	50.96	74.00	-23.04	12.89	3	Vertical	322	1.72	-	38.07	36.63	10.99	34.73
PK	9.15347G	54.26	74.00	-19.74	14.87	3	Vertical	227	1.20	-	39.39	38.11	11.61	34.85

ASK_Nss1_1TX

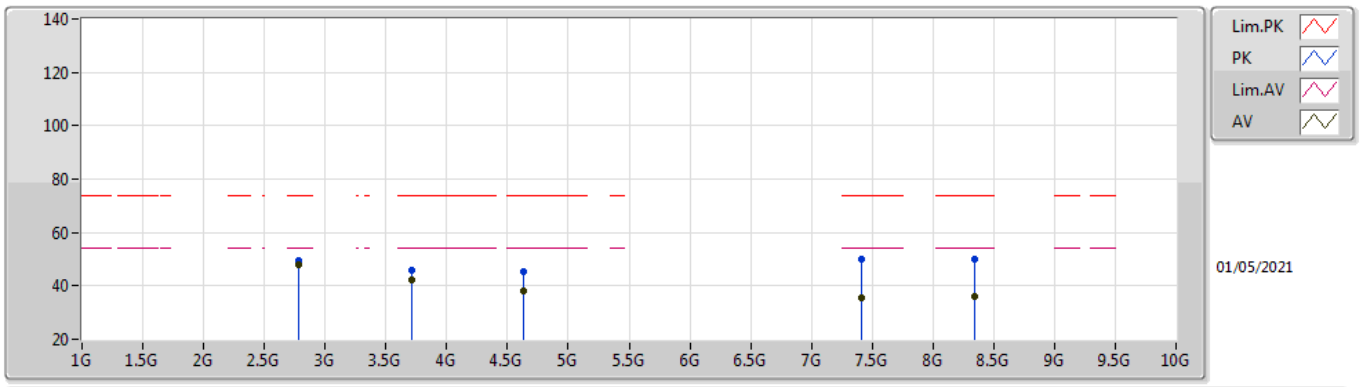
915.25MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.74573G	52.94	54.00	-1.06	1.03	3	Horizontal	339	1.17	-	51.91	27.90	7.52	34.39
AV	3.66081G	47.13	54.00	-6.87	2.15	3	Horizontal	35	1.49	-	44.98	28.92	7.64	34.41
AV	4.57621G	46.96	54.00	-7.04	5.00	3	Horizontal	4	2.46	-	41.96	30.70	8.66	34.36
AV	7.32222G	35.73	54.00	-18.27	12.36	3	Horizontal	94	1.83	-	23.37	36.31	10.63	34.58
AV	8.23641G	36.99	54.00	-17.01	12.88	3	Horizontal	182	1.11	-	24.11	36.63	10.98	34.73
AV	9.15154G	39.13	54.00	-14.87	14.87	3	Horizontal	245	1.36	-	24.26	38.11	11.61	34.85
PK	2.74574G	54.17	74.00	-19.83	1.03	3	Horizontal	339	1.17	-	53.14	27.90	7.52	34.39
PK	3.66095G	50.91	74.00	-23.09	2.15	3	Horizontal	35	1.49	-	48.76	28.92	7.64	34.41
PK	4.57611G	50.56	74.00	-23.44	5.00	3	Horizontal	4	2.46	-	45.56	30.70	8.66	34.36
PK	7.32296G	50.10	74.00	-23.90	12.36	3	Horizontal	94	1.83	-	37.74	36.31	10.63	34.58
PK	8.23667G	50.89	74.00	-23.11	12.88	3	Horizontal	182	1.11	-	38.01	36.63	10.98	34.73
PK	9.15266G	52.96	74.00	-21.04	14.87	3	Horizontal	245	1.36	-	38.09	38.11	11.61	34.85

ASK_Nss1_1TX

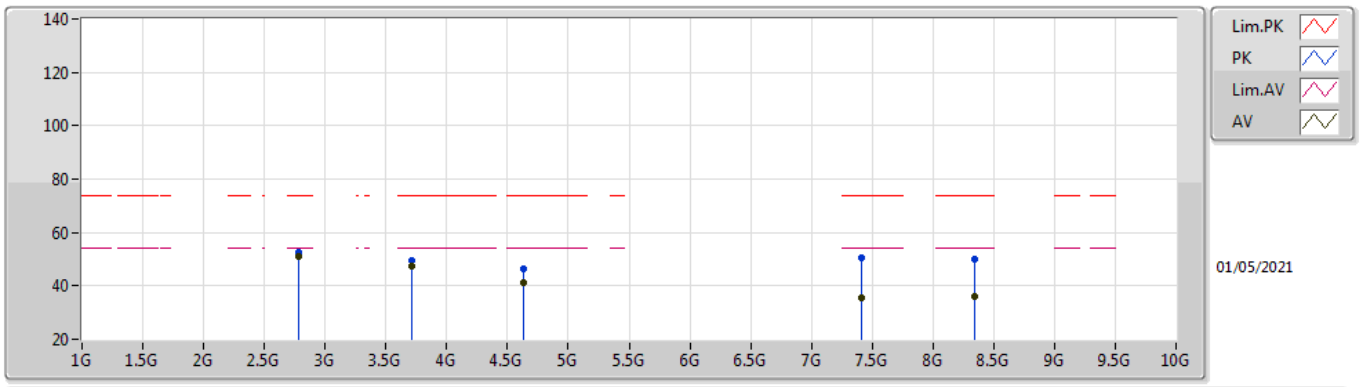
927.25MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.78172G	47.75	54.00	-6.25	1.18	3	Vertical	262	1.46	-	46.57	28.03	7.55	34.40
AV	3.70897G	42.50	54.00	-11.50	2.41	3	Vertical	231	1.16	-	40.09	29.04	7.79	34.42
AV	4.63621G	38.32	54.00	-15.68	5.32	3	Vertical	114	1.00	-	33.00	30.94	8.72	34.34
AV	7.41751G	35.50	54.00	-18.50	12.26	3	Vertical	185	1.61	-	23.24	36.14	10.71	34.59
AV	8.34471G	35.94	54.00	-18.06	12.88	3	Vertical	256	1.34	-	23.06	36.31	11.29	34.72
PK	2.78172G	49.71	74.00	-24.29	1.18	3	Vertical	262	1.46	-	48.53	28.03	7.55	34.40
PK	3.70902G	45.93	74.00	-28.07	2.41	3	Vertical	231	1.16	-	43.52	29.04	7.79	34.42
PK	4.63616G	45.56	74.00	-28.44	5.32	3	Vertical	114	1.00	-	40.24	30.94	8.72	34.34
PK	7.41735G	50.19	74.00	-23.81	12.25	3	Vertical	185	1.61	-	37.94	36.13	10.71	34.59
PK	8.34468G	49.78	74.00	-24.22	12.88	3	Vertical	256	1.34	-	36.90	36.31	11.29	34.72

ASK_Nss1_1TX

927.25MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.78173G	51.29	54.00	-2.71	1.18	3	Horizontal	324	1.50	-	50.11	28.03	7.55	34.40
AV	3.70898G	47.25	54.00	-6.75	2.41	3	Horizontal	30	2.58	-	44.84	29.04	7.79	34.42
AV	4.63622G	41.08	54.00	-12.92	5.32	3	Horizontal	9	2.75	-	35.76	30.94	8.72	34.34
AV	7.41788G	35.54	54.00	-18.46	12.26	3	Horizontal	6	1.05	-	23.28	36.14	10.71	34.59
AV	8.34499G	35.91	54.00	-18.09	12.88	3	Horizontal	205	1.70	-	23.03	36.31	11.29	34.72
PK	2.78171G	52.60	74.00	-21.40	1.18	3	Horizontal	324	1.50	-	51.42	28.03	7.55	34.40
PK	3.70903G	49.27	74.00	-24.73	2.41	3	Horizontal	30	2.58	-	46.86	29.04	7.79	34.42
PK	4.63626G	46.44	74.00	-27.56	5.33	3	Horizontal	9	2.75	-	41.11	30.95	8.72	34.34
PK	7.41784G	50.26	74.00	-23.74	12.26	3	Horizontal	6	1.05	-	38.00	36.14	10.71	34.59
PK	8.3454G	49.88	74.00	-24.12	12.88	3	Horizontal	205	1.70	-	37.00	36.31	11.29	34.72