

FCC Test Report

FCC ID : ANSBP35C5
Equipment : Wi-Sun Module
Brand Name : ROHM
Model Name : BP35C5
Applicant : ROHM Co., Ltd.
21 Saiin, Mizozaki-cho, Ukyo-ku, Kyoto 615-8585 Japan
Manufacturer : ASKEY COMPUTER CORPORATION
10F, No. 119, Jiankang Road, Zhonghe Dist., New Taipei
City, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on May 13, 2020, and testing was started from May 18, 2020 and completed on May 27, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	20dB Bandwidth	PASS	-
3.2	15.247(a)	Carrier Frequency Separation	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(a)	Number of Hopping Frequencies and Hopping Bandedge	PASS	-
3.6	15.247(a)	Time of Occupancy (Dwell Time)	PASS	-
3.7	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.8	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

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

Comments and Explanations:

None.

Reviewed by: Sam Tsai

Report Producer: Yunha Liou

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Modulation	Ch. Frequency (MHz)	Channel Number	Data rate (kbps)
902-928	2GFSK	902.2-927.8	0-128 [129]	50
	2GFSK	902.4-927.6	0-63 [64]	150
	2GFSK	902.6-927.2	0-41 [42]	300
	2GFSK	903-927	0-24 [25]	600

Band	Mode	BWch (MHz)	Nant
902-928MHz	Wi-Sun-50	0.2	1TX(Port1)
902-928MHz	Wi-Sun-50	0.2	1TX(Port2)
902-928MHz	Wi-Sun-150	0.4	1TX(Port1)
902-928MHz	Wi-Sun-150	0.4	1TX(Port2)
902-928MHz	Wi-Sun-300	0.6	1TX(Port1)
902-928MHz	Wi-Sun-300	0.6	1TX(Port2)
902-928MHz	Wi-Sun-600	1	1TX(Port1)
902-928MHz	Wi-Sun-600	1	1TX(Port2)

Note:

- ♦ Wi-SUN-50kbps, Wi-SUN-150kbps, Wi-SUN-300kbps uses as a FHSS system.
- ♦ Wi-SUN-600kbps uses as a Hybrid system using DTS & FHSS.
- ♦ Wi-SUN uses 2GFSK modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ The EUT has two transmission modes for data transmission as described below:
 1. Wi-SUN-50kbps, Wi-SUN-150kbps, Wi-SUN-300kbps(FHSS)
 2. Wi-SUN-600kbps DTS(FHSS+DTS)
- ♦ Testing was performed in accordance with the applicable FCC requirement for each of two transmission modes.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	STAF corporation	T13-047-1039	monopole	SMA-P (Reverse)	3

Note 1: The EUT has one antenna.

For Wi-SUN function:

For Wi-SUN mode (1TX/1RX)

Support diversity function, port 1 or port 2 could transmit/receive.

1.1.3 Type of EUT

Operational Condition	
EUT Power Type	From Host system
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) $\geq 1/T$
Wi-Sun-50	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
Wi-Sun-150	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
Wi-Sun-300	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
Wi-Sun-600	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

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

1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- KDB 558074 D01 v05r02
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			
☒	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
		TEL : 886-3-318-0787	FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward	21.2~24.5°C / 64~69%	20/May/2020
RF Conducted	TH01-HY	Vivi	21.1~26.9°C/ 55~65%	22/May/2020~ 27/May/2020
Radiated	03CH09-HY	Lego	23.2~23.5°C / 62~66%	18/May/2020~ 19/May/2020

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	Tnom	20°C
-	Vnom	3.6V

2.2 Test Channel Mode

Test Software	Dos
---------------	-----

Mode	Power Setting
Wi-Sun-50_Nss1_1TX(Port1)	-
902.2MHz	default
915.0MHz	default
927.8MHz	default
Wi-Sun-50_Nss1_1TX(Port2)	-
902.2MHz	default
915.0MHz	default
927.8MHz	default
Wi-Sun-150_Nss1_1TX(Port1)	-
902.4MHz	default
915.2MHz	default
927.6MHz	default
Wi-Sun-150_Nss1_1TX(Port2)	-
902.4MHz	default
915.2MHz	default
927.6MHz	default
Wi-Sun-300_Nss1_1TX(Port1)	-
902.6MHz	default
915.2MHz	default
927.2MHz	default
Wi-Sun-300_Nss1_1TX(Port2)	-
902.6MHz	default
915.2MHz	default
927.2MHz	default
Wi-Sun-600_Nss1_1TX(Port1)	-
903.0MHz	default



Mode	Power Setting
915.0MHz	default
927.0MHz	default
Wi-Sun-600_Nss1_1TX(Port2)	-
903.0MHz	default
915.0MHz	default
927.0MHz	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	Test Fixture mode ;Wi-Sun 50kbps TX (ANT1)
2	Test Fixture mode ;Wi-Sun 150kbps TX (ANT1)
3	Test Fixture mode ;Wi-Sun 300kbps TX (ANT1)
4	Test Fixture mode ;Wi-Sun 600kbps TX (ANT1)
5	Test Fixture mode ;Wi-Sun 50kbps TX (ANT2)
6	Test Fixture mode ;Wi-Sun 150kbps TX (ANT2)
7	Test Fixture mode ;Wi-Sun 300kbps TX (ANT2)
8	Test Fixture mode ;Wi-Sun 600kbps TX (ANT2)

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

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	Test 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 / Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	PP13S	-	-
2	Adapter	DELL	LA90PS0-00	-	-
3	Test fixture	-	-	-	Note 1
4	Mini USB Cable	-	-	-	Note 1
5	AC Power Cable	Power sync	PW-GPC180-3	-	-

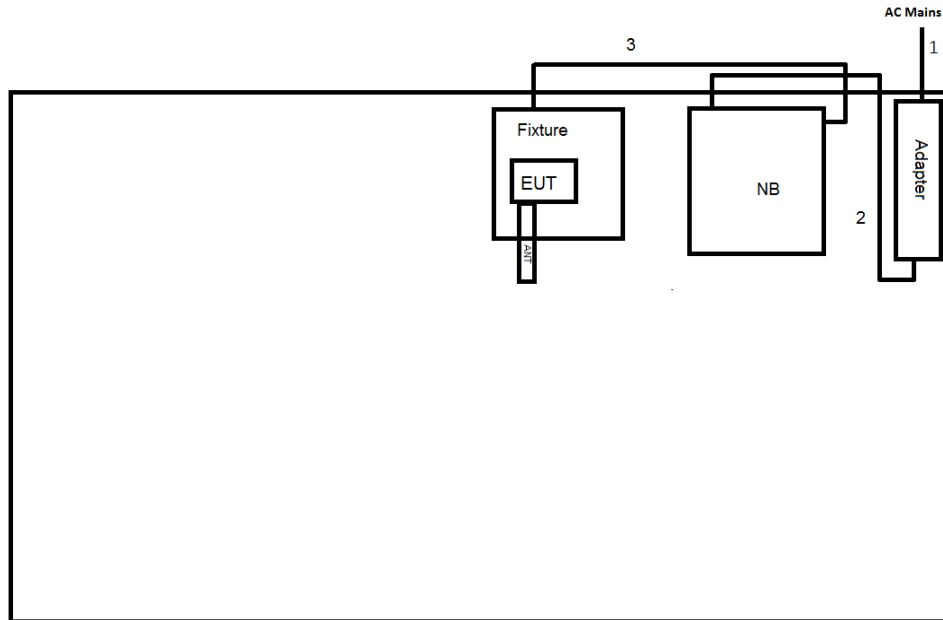
Note: No.3,4 were provided by customer.

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

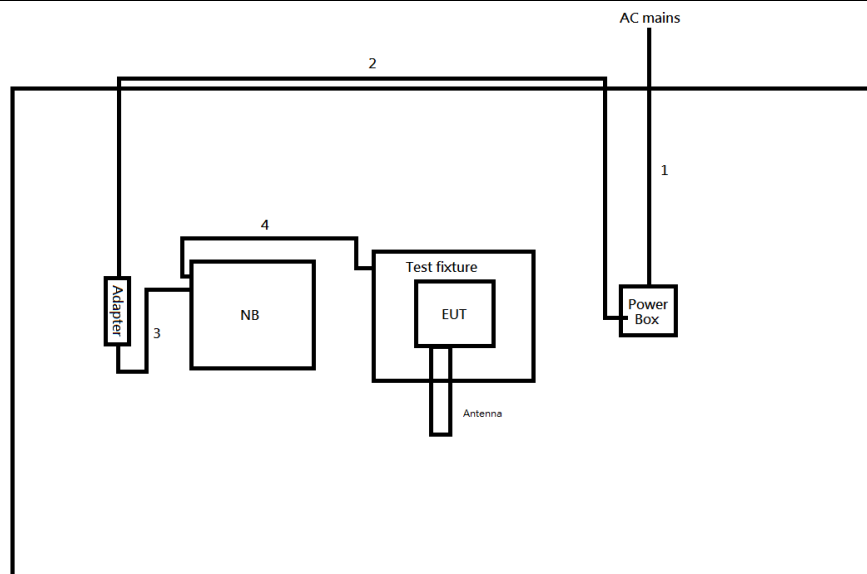
Note: No.3 was provided by customer.

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	-
3	Mini USB cable	No	1.5	-

Test Setup Diagram - Radiated Test


Item	Connection	Shielded-	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	1.8	-
3	DC Power cable	No	1	-
4	Mini USB cable	No	1.5	

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

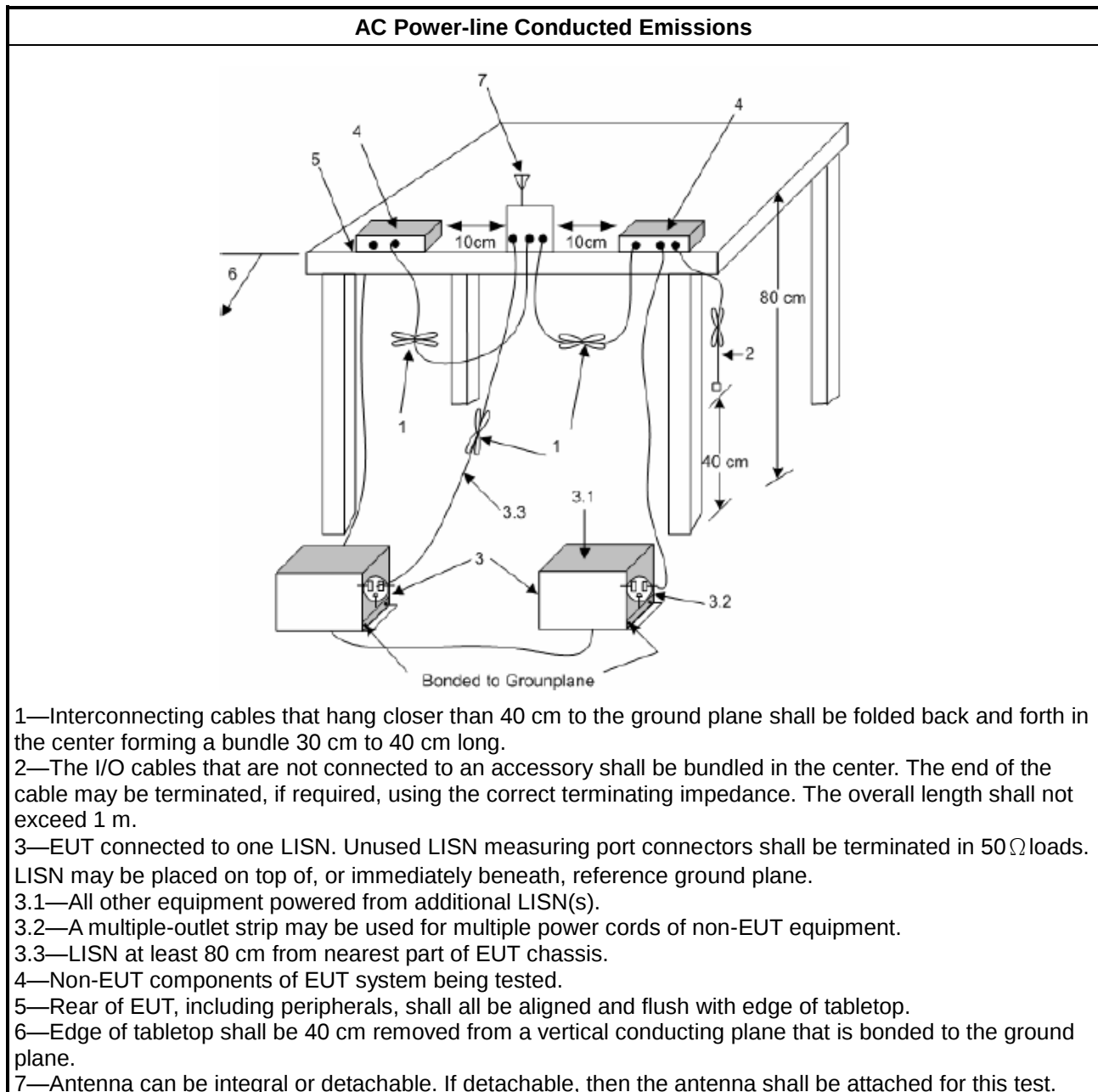
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

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

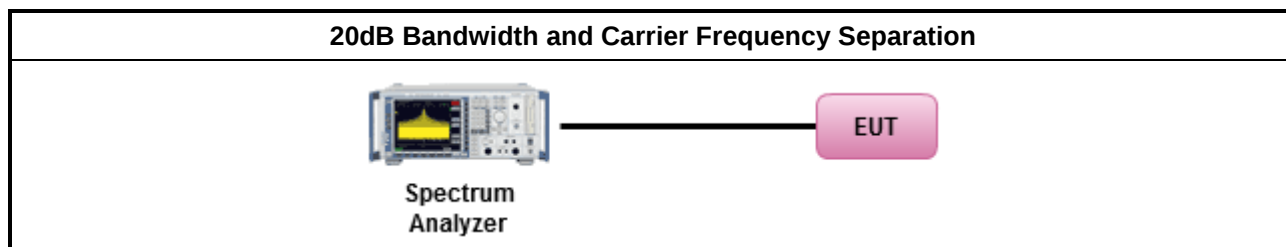
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.
☒ Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup



3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

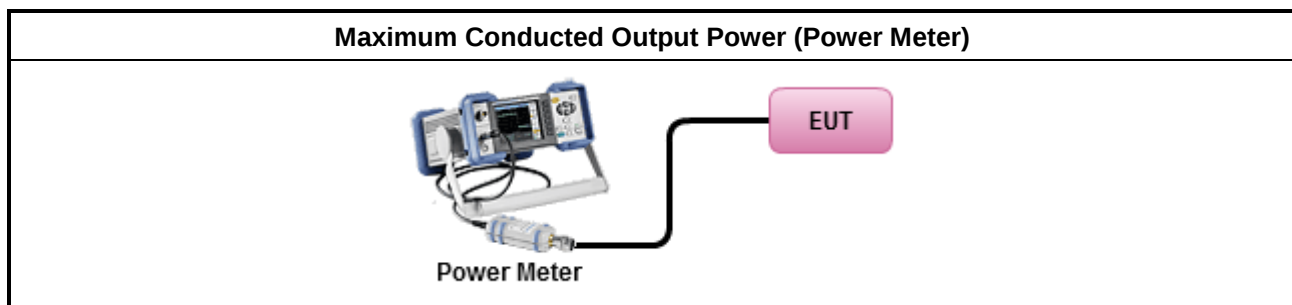
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW $\geq$ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☒	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
▪ Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
▪ For conducted measurement.	
▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

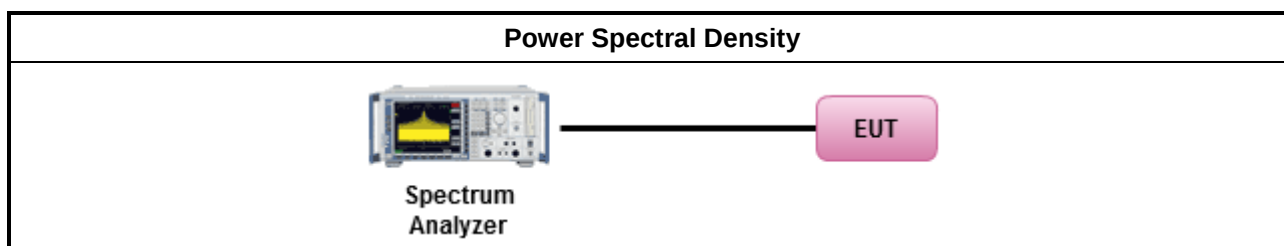
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Number of Hopping Frequencies and Hopping Bandedge

3.5.1 Number of Hopping Frequencies Limit

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

3.5.2 Hopping Bandedge Limit

Refer clause 3.7.1 and clause 3.8.1

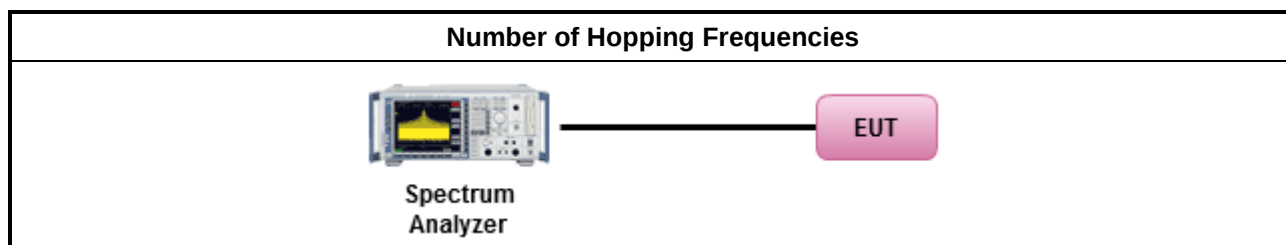
3.5.3 Measuring Instruments

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

3.5.4 Test Procedures

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

3.5.5 Test Setup



3.5.6 Test Result of Number of Hopping Frequencies

Refer as Appendix E

3.5.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix E

3.6 Time of Occupancy (Dwell Time)

3.6.1 Time of Occupancy (Dwell Time) Limit

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

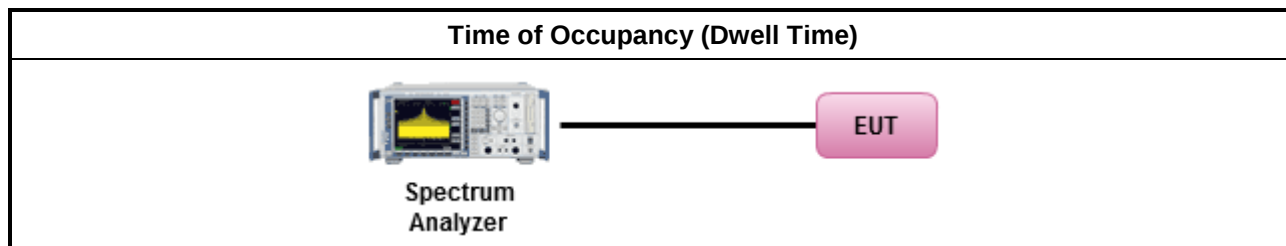
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.

3.6.4 Test Setup



3.6.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix F

3.7 Emissions in Non-restricted Frequency Bands

3.7.1 Emissions in Non-restricted Frequency Bands Limit

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

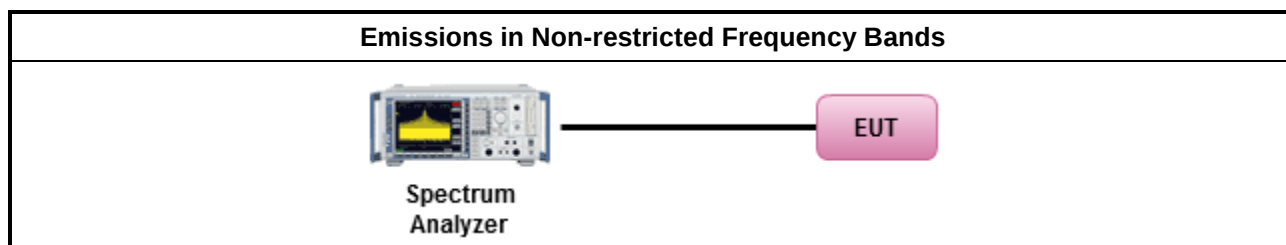
3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands.

3.7.4 Test Setup



3.7.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix G

3.8 Emissions in Restricted Frequency Bands

3.8.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

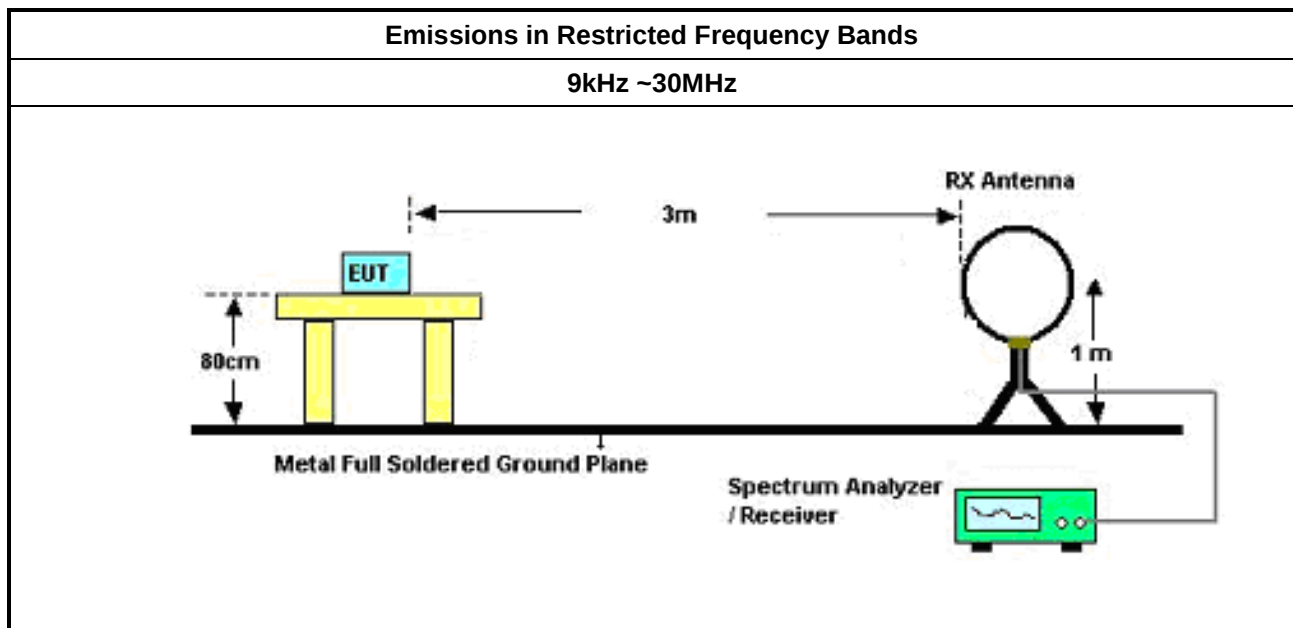
3.8.2 Measuring Instruments

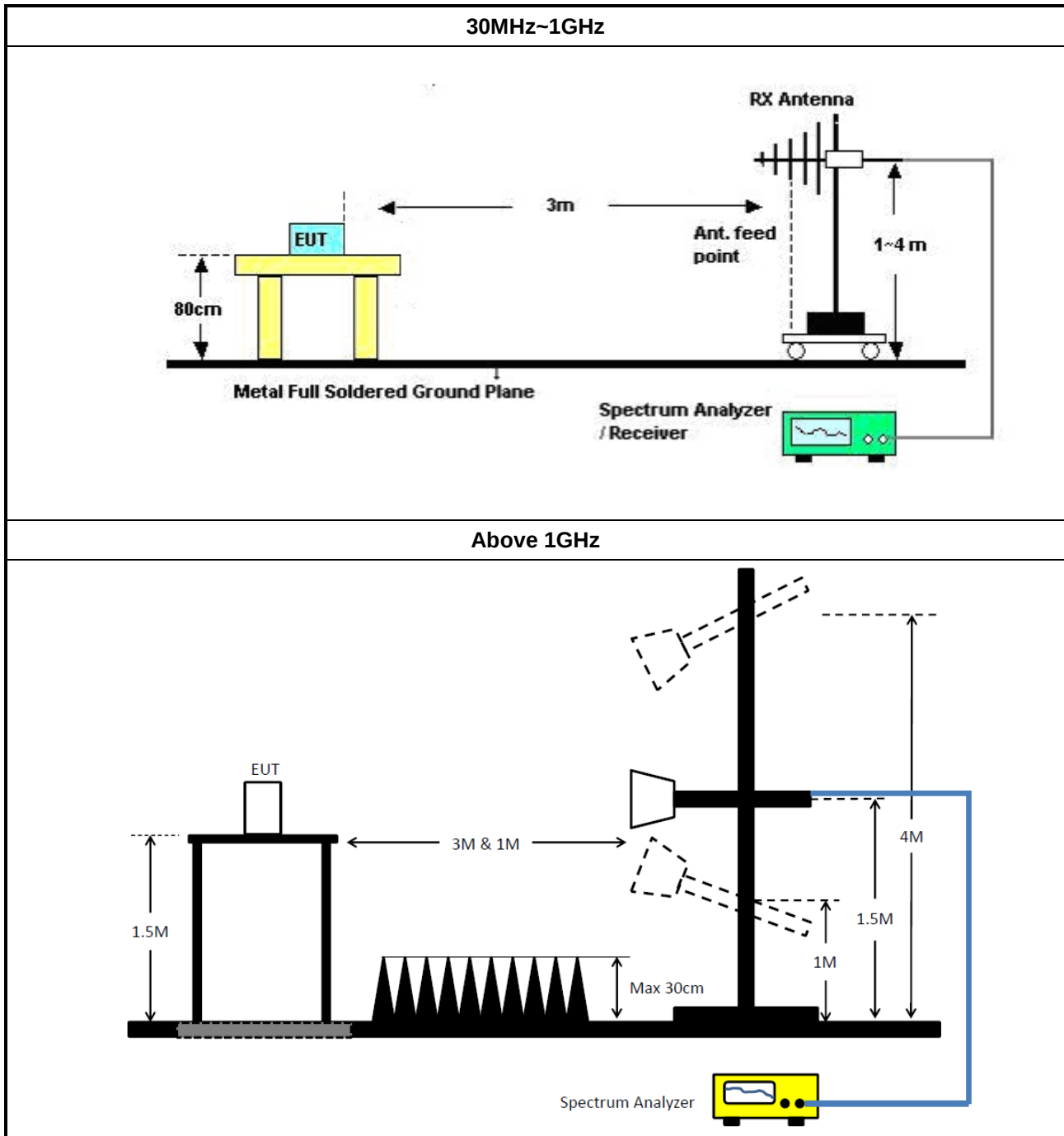
Refer a test equipment and calibration data table in this test report.

3.8.3 Test Procedures

Test Method	
▪	The average emission levels shall be measured in [hopping duty factor].
	Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted emissions shall be measured using following options below:
	Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.
▪	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
▪	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.8.4 Test Setup





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

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

3.8.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix H

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	28/May/2019	27/May/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	04/Nov/2019	05/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	12/Sep/2019	11/Sep/2020
AC POWER	APC	AFC-11005G	F310050055	47Hz ~ 63Hz 5 ~ 300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	24/Sep/2019	23/Sep/2020

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	27/Mar/2020	26/Mar/2021
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	19/Mar/2020	18/Mar/2021
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	04/Sep/2019	03/Sep/2020
Amplifier	EMC	EMC9135	980232	9kHz ~ 1GHz	14/Apr/2020	13/Apr/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	27/May/2020	28/May/2021
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	07/Aug/2019	06/Aug/2020
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz ~ 1GHz	11/Oct/2019	10/Oct/2020
Double Ridged Guide Horn Antenna	COM-POWER	AH-118	10094	1GHz ~ 18GHz	17/Jul/2019	16/Jul/2020
Loop Antenna	TESEQ	HLA 6120	31244	9kHz ~ 30MHz	16/Mar/2020	15/Mar/2021
RF Cable-R03m	Jye Bao	RG142	CB031+324530/4	30MHz ~ 1GHz	12/Feb/2020	11/Feb/2021
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	12/Feb/2020	11/Feb/2021

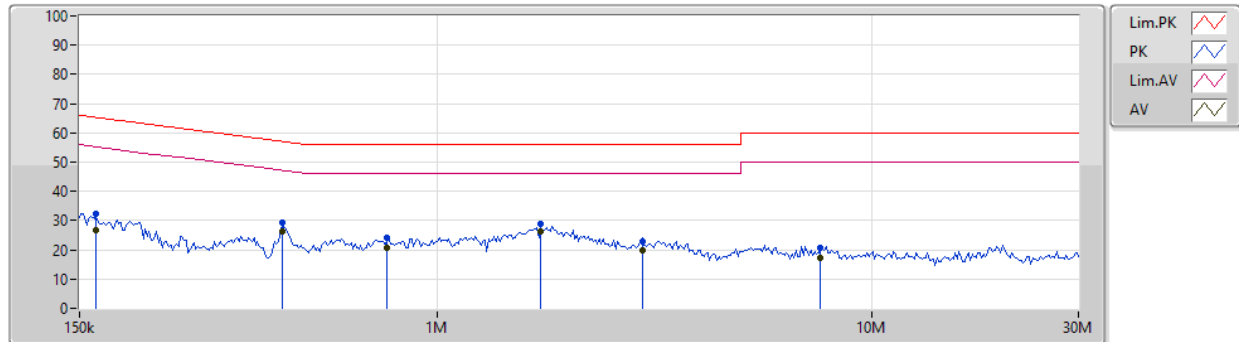
Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz ~ 40GHz	19/Mar/2020	18/Mar/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz ~ 40GHz	12/Nov/2018	10/Nov/2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	17/Feb/2020	16/Feb/2021
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	17/Feb/2020	16/Feb/2021

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Test Fixture mode Wi-Sun 50kbps TX (ANT1)		

20/05/2020

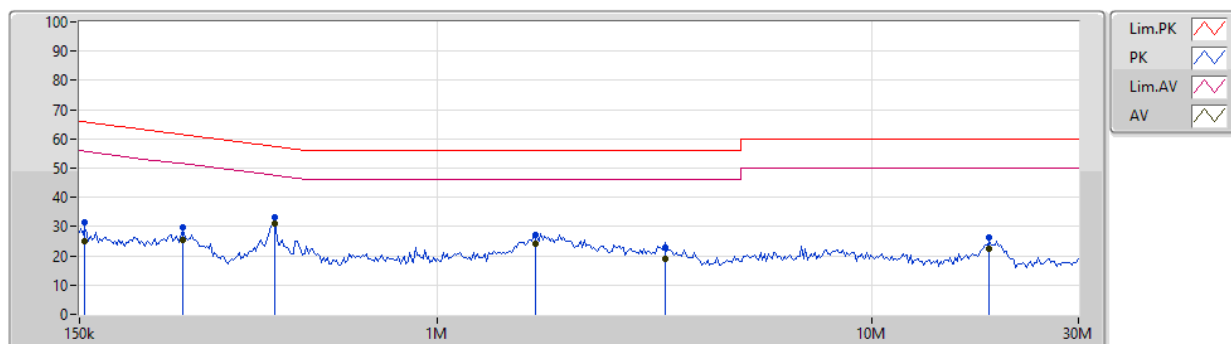


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	164.053k	32.37	65.25	-32.88	19.63	Neutral	-	12.74	9.65	0.11	9.87			
AV	164.053k	26.66	55.25	-28.59	19.63	Neutral	-	7.03	9.65	0.11	9.87			
QP	439.339k	29.31	57.07	-27.76	19.63	Neutral	-	9.68	9.63	0.13	9.87			
AV	439.339k	26.37	47.07	-20.70	19.63	Neutral	-	6.74	9.63	0.13	9.87			
QP	767.002k	24.28	56.00	-31.72	19.62	Neutral	-	4.66	9.63	0.12	9.87			
AV	767.002k	20.73	46.00	-25.27	19.62	Neutral	-	1.11	9.63	0.12	9.87			
QP	1.734M	28.98	56.00	-27.02	19.66	Neutral	-	9.32	9.65	0.14	9.87			
AV	1.734M	26.32	46.00	-19.68	19.66	Neutral	"Worst"	6.66	9.65	0.14	9.87			
QP	2.968M	22.70	56.00	-33.30	19.71	Neutral	-	2.99	9.66	0.17	9.88			
AV	2.968M	19.68	46.00	-26.32	19.71	Neutral	-	-0.03	9.66	0.17	9.88			
QP	7.639M	20.74	60.00	-39.26	19.81	Neutral	-	0.93	9.69	0.24	9.88			
AV	7.639M	17.43	50.00	-32.57	19.81	Neutral	-	-2.38	9.69	0.24	9.88			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Test Fixture mode Wi-Sun 50kbps TX (ANT1)		

20/05/2020

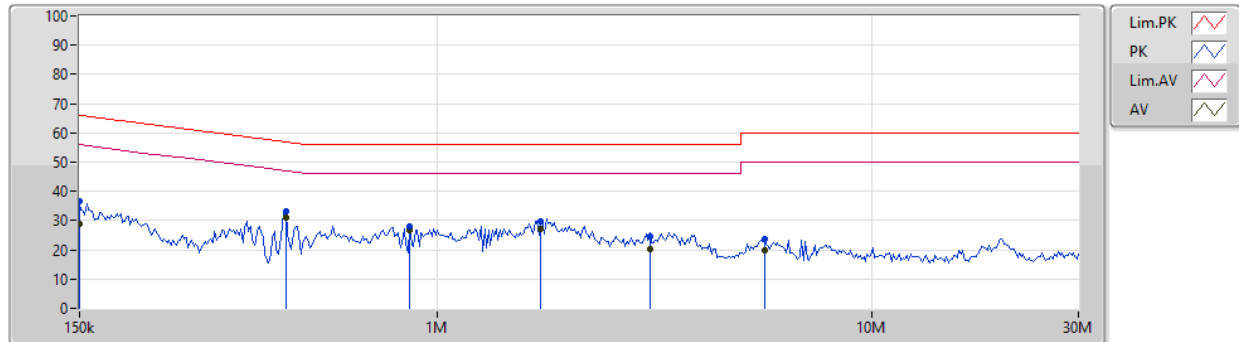


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.545k	31.28	65.75	-34.47	19.64	Line	-	11.64	9.66	0.11	9.87			
AV	154.545k	25.14	55.75	-30.61	19.64	Line	-	5.50	9.66	0.11	9.87			
QP	259.279k	29.59	61.45	-31.86	19.64	Line	-	9.95	9.65	0.12	9.87			
AV	259.279k	25.25	51.45	-26.20	19.64	Line	-	5.61	9.65	0.12	9.87			
QP	422.196k	33.32	57.40	-24.08	19.64	Line	-	13.68	9.64	0.13	9.87			
AV	422.196k	30.90	47.40	-16.50	19.64	Line	"Worst"	11.26	9.64	0.13	9.87			
QP	1.683M	27.22	56.00	-28.78	19.66	Line	-	7.56	9.65	0.14	9.87			
AV	1.683M	24.26	46.00	-21.74	19.66	Line	-	4.60	9.65	0.14	9.87			
QP	3.345M	22.82	56.00	-33.18	19.72	Line	-	3.10	9.66	0.18	9.88			
AV	3.345M	19.03	46.00	-26.97	19.72	Line	-	-0.69	9.66	0.18	9.88			
QP	18.705M	26.44	60.00	-33.56	19.88	Line	-	6.56	9.64	0.35	9.89			
AV	18.705M	22.39	50.00	-27.61	19.88	Line	-	2.51	9.64	0.35	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Neutral
Operating Function	Test Fixture mode Wi-Sun 150kbps TX (ANT1)		

20/05/2020

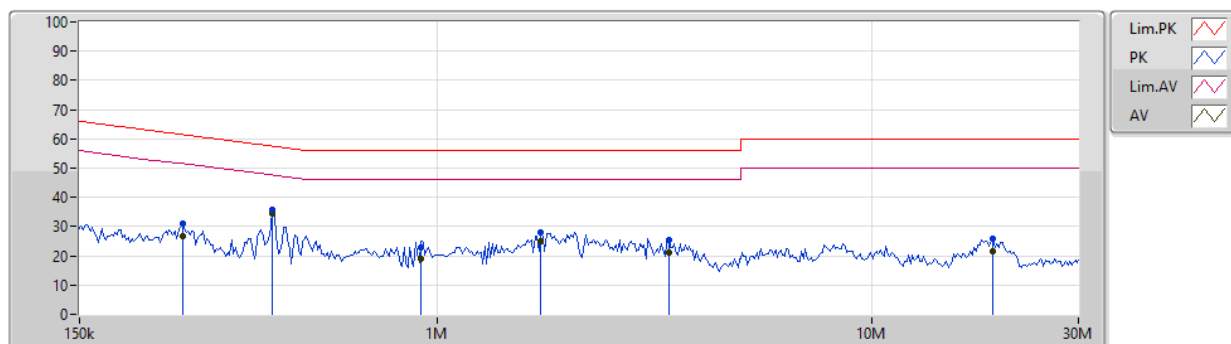


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	36.68	66.00	-29.32	19.63	Neutral	-	17.05	9.65	0.11	9.87			
AV	150k	28.97	56.00	-27.03	19.63	Neutral	-	9.34	9.65	0.11	9.87			
QP	448.17k	32.99	56.92	-23.93	19.63	Neutral	-	13.36	9.63	0.13	9.87			
AV	448.17k	30.95	46.92	-15.97	19.63	Neutral	"Worst"	11.32	9.63	0.13	9.87			
QP	864.277k	27.93	56.00	-28.07	19.61	Neutral	-	8.32	9.63	0.11	9.87			
AV	864.277k	26.53	46.00	-19.47	19.61	Neutral	-	6.92	9.63	0.11	9.87			
QP	1.734M	29.80	56.00	-26.20	19.66	Neutral	-	10.14	9.65	0.14	9.87			
AV	1.734M	27.30	46.00	-18.70	19.66	Neutral	-	7.64	9.65	0.14	9.87			
QP	3.089M	24.46	56.00	-31.54	19.71	Neutral	-	4.75	9.66	0.17	9.88			
AV	3.089M	20.15	46.00	-25.85	19.71	Neutral	-	0.44	9.66	0.17	9.88			
QP	5.668M	23.60	60.00	-36.40	19.77	Neutral	-	3.83	9.68	0.21	9.88			
AV	5.668M	19.69	50.00	-30.31	19.77	Neutral	-	-0.08	9.68	0.21	9.88			

AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Line
Operating Function	Test Fixture mode Wi-Sun 150kbps TX (ANT1)		

20/05/2020

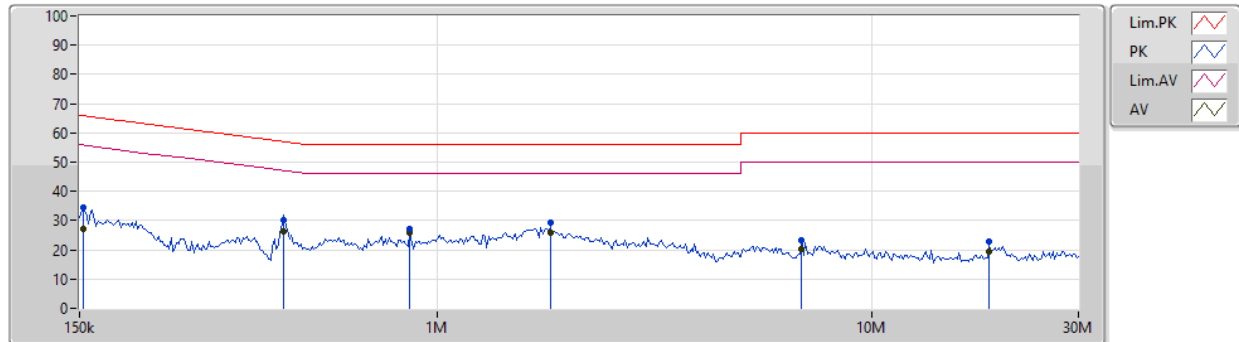


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	259.279k	31.10	61.45	-30.35	19.64	Line	-	11.46	9.65	0.12	9.87			
AV	259.279k	26.71	51.45	-24.74	19.64	Line	-	7.07	9.65	0.12	9.87			
QP	418.016k	35.59	57.49	-21.90	19.64	Line	-	15.95	9.64	0.13	9.87			
AV	418.016k	34.55	47.49	-12.94	19.64	Line	"Worst"	14.91	9.64	0.13	9.87			
QP	917.448k	22.89	56.00	-33.11	19.63	Line	-	3.26	9.64	0.11	9.88			
AV	917.448k	19.02	46.00	-26.98	19.63	Line	-	-0.61	9.64	0.11	9.88			
QP	1.734M	28.13	56.00	-27.87	19.66	Line	-	8.47	9.65	0.14	9.87			
AV	1.734M	25.02	46.00	-20.98	19.66	Line	-	5.36	9.65	0.14	9.87			
QP	3.412M	25.46	56.00	-30.54	19.72	Line	-	5.74	9.66	0.18	9.88			
AV	3.412M	21.00	46.00	-25.00	19.72	Line	-	1.28	9.66	0.18	9.88			
QP	19.081M	25.82	60.00	-34.18	19.88	Line	-	5.94	9.64	0.35	9.89			
AV	19.081M	21.63	50.00	-28.37	19.88	Line	-	1.75	9.64	0.35	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	3	Power Phase	Neutral
Operating Function	Test Fixture mode Wi-Sun 300kbps TX (ANT1)		

20/05/2020

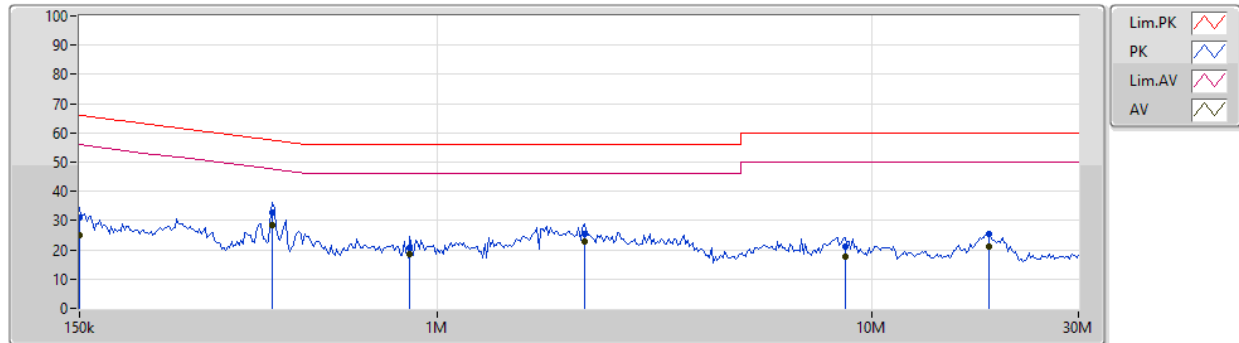


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	34.33	65.83	-31.50	19.63	Neutral	-	14.70	9.65	0.11	9.87			
AV	153.015k	27.29	55.83	-28.54	19.63	Neutral	-	7.66	9.65	0.11	9.87			
QP	443.732k	30.08	56.99	-26.91	19.63	Neutral	-	10.45	9.63	0.13	9.87			
AV	443.732k	26.42	46.99	-20.57	19.63	Neutral	-	6.79	9.63	0.13	9.87			
QP	864.277k	27.06	56.00	-28.94	19.61	Neutral	-	7.45	9.63	0.11	9.87			
AV	864.277k	25.70	46.00	-20.30	19.61	Neutral	-	6.09	9.63	0.11	9.87			
QP	1.823M	29.48	56.00	-26.52	19.66	Neutral	-	9.82	9.65	0.14	9.87			
AV	1.823M	25.83	46.00	-20.17	19.66	Neutral	"Worst"	6.17	9.65	0.14	9.87			
QP	6.915M	23.16	60.00	-36.84	19.79	Neutral	-	3.37	9.68	0.23	9.88			
AV	6.915M	20.46	50.00	-29.54	19.79	Neutral	-	0.67	9.68	0.23	9.88			
QP	18.705M	22.96	60.00	-37.04	19.96	Neutral	-	3.00	9.72	0.35	9.89			
AV	18.705M	19.41	50.00	-30.59	19.96	Neutral	-	-0.55	9.72	0.35	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	3	Power Phase	Line
Operating Function	Test Fixture mode Wi-Sun 300kbps TX (ANT1)		

20/05/2020

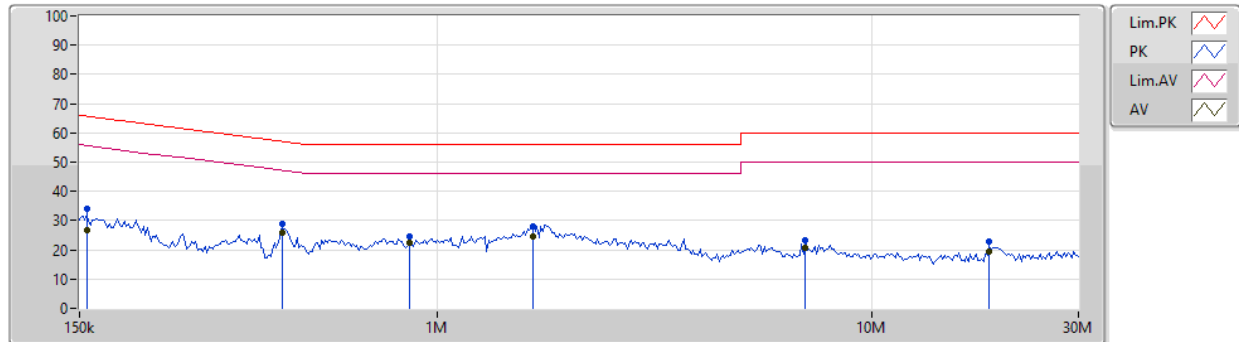


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	31.11	66.00	-34.89	19.64	Line	-	11.47	9.66	0.11	9.87			
AV	150k	24.93	56.00	-31.07	19.64	Line	-	5.29	9.66	0.11	9.87			
QP	418.016k	32.97	57.49	-24.52	19.64	Line	-	13.33	9.64	0.13	9.87			
AV	418.016k	28.34	47.49	-19.15	19.64	Line	"Worst"	8.70	9.64	0.13	9.87			
QP	864.277k	20.64	56.00	-35.36	19.62	Line	-	1.02	9.64	0.11	9.87			
AV	864.277k	18.37	46.00	-27.63	19.62	Line	-	-1.25	9.64	0.11	9.87			
QP	2.18M	25.52	56.00	-30.48	19.67	Line	-	5.85	9.65	0.15	9.87			
AV	2.18M	22.64	46.00	-23.36	19.67	Line	-	2.97	9.65	0.15	9.87			
QP	8.694M	21.03	60.00	-38.97	19.83	Line	-	1.20	9.69	0.26	9.88			
AV	8.694M	17.79	50.00	-32.21	19.83	Line	-	-2.04	9.69	0.26	9.88			
QP	18.705M	25.34	60.00	-34.66	19.88	Line	-	5.46	9.64	0.35	9.89			
AV	18.705M	21.28	50.00	-28.72	19.88	Line	-	1.40	9.64	0.35	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	4	Power Phase	Neutral
Operating Function	Test Fixture mode Wi-Sun 600kbps TX (ANT1)		

20/05/2020

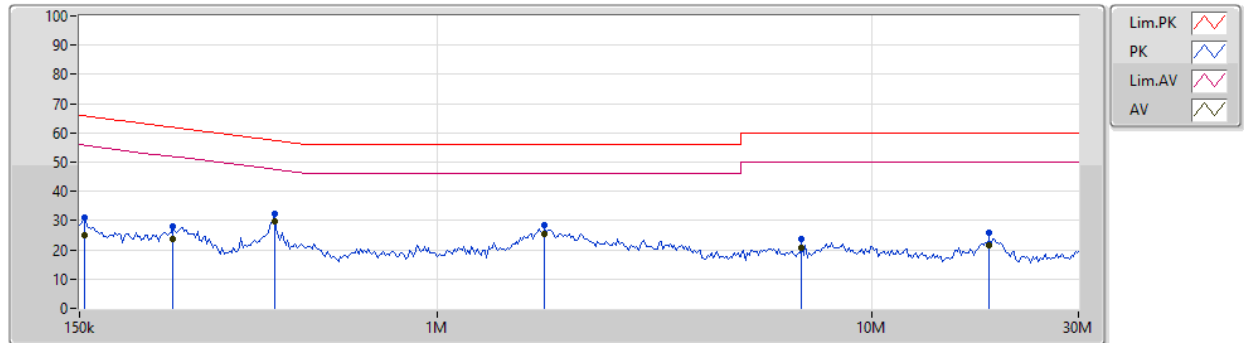


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.091k	34.11	65.67	-31.56	19.63	Neutral	-	14.48	9.65	0.11	9.87			
AV	156.091k	26.59	55.67	-29.08	19.63	Neutral	-	6.96	9.65	0.11	9.87			
QP	439.339k	28.89	57.07	-28.18	19.63	Neutral	-	9.26	9.63	0.13	9.87			
AV	439.339k	25.80	47.07	-21.27	19.63	Neutral	"Worst"	6.17	9.63	0.13	9.87			
QP	864.277k	24.72	56.00	-31.28	19.61	Neutral	-	5.11	9.63	0.11	9.87			
AV	864.277k	22.25	46.00	-23.75	19.61	Neutral	-	2.64	9.63	0.11	9.87			
QP	1.667M	28.07	56.00	-27.93	19.65	Neutral	-	8.42	9.64	0.14	9.87			
AV	1.667M	24.57	46.00	-21.43	19.65	Neutral	-	4.92	9.64	0.14	9.87			
QP	7.054M	23.42	60.00	-36.58	19.79	Neutral	-	3.63	9.68	0.23	9.88			
AV	7.054M	20.59	50.00	-29.41	19.79	Neutral	-	0.80	9.68	0.23	9.88			
QP	18.705M	22.73	60.00	-37.27	19.96	Neutral	-	2.77	9.72	0.35	9.89			
AV	18.705M	19.23	50.00	-30.77	19.96	Neutral	-	-0.73	9.72	0.35	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	4	Power Phase	Line
Operating Function	Test Fixture mode Wi-Sun 300kbps TX (ANT1)		

20/05/2020

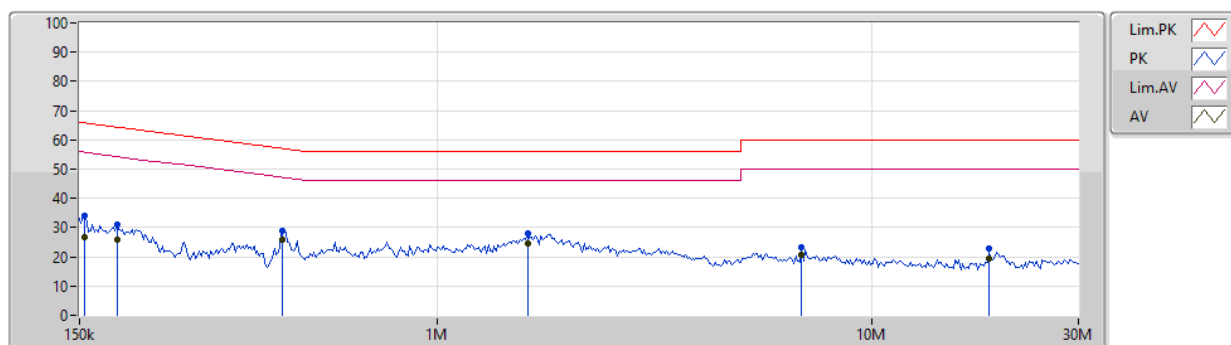


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.545k	31.19	65.75	-34.56	19.64	Line	-	11.55	9.66	0.11	9.87			
AV	154.545k	24.89	55.75	-30.86	19.64	Line	-	5.25	9.66	0.11	9.87			
QP	246.695k	27.88	61.87	-33.99	19.64	Line	-	8.24	9.65	0.12	9.87			
AV	246.695k	23.50	51.87	-28.37	19.64	Line	-	3.86	9.65	0.12	9.87			
QP	422.196k	32.41	57.40	-24.99	19.64	Line	-	12.77	9.64	0.13	9.87			
AV	422.196k	29.69	47.40	-17.71	19.64	Line	"Worst"	10.05	9.64	0.13	9.87			
QP	1.769M	28.46	56.00	-27.54	19.66	Line	-	8.80	9.65	0.14	9.87			
AV	1.769M	25.55	46.00	-20.45	19.66	Line	-	5.89	9.65	0.14	9.87			
QP	6.915M	23.59	60.00	-36.41	19.79	Line	-	3.80	9.68	0.23	9.88			
AV	6.915M	20.81	50.00	-29.19	19.79	Line	-	1.02	9.68	0.23	9.88			
QP	18.705M	25.68	60.00	-34.32	19.88	Line	-	5.80	9.64	0.35	9.89			
AV	18.705M	21.67	50.00	-28.33	19.88	Line	-	1.79	9.64	0.35	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	5	Power Phase	Neutral
Operating Function	Test Fixture mode Wi-Sun 50kbps TX (ANT2)		

20/05/2020

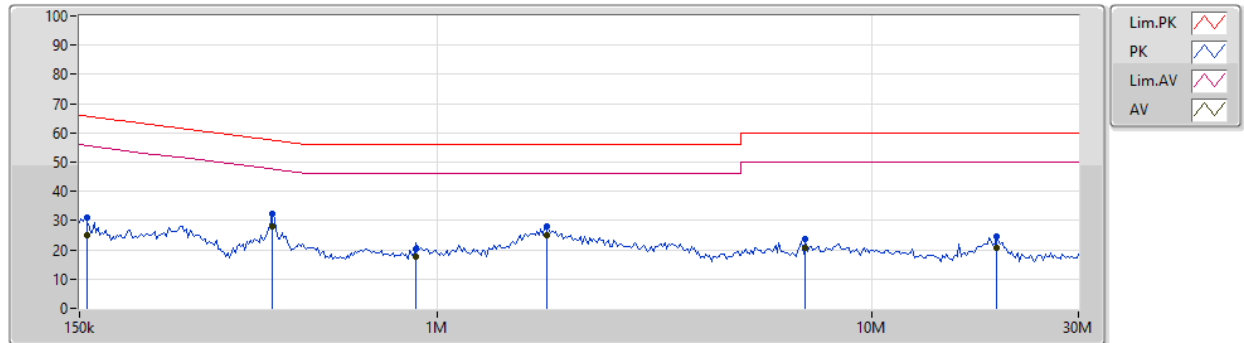


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.545k	34.04	65.75	-31.71	19.63	Neutral	-	14.41	9.65	0.11	9.87			
AV	154.545k	26.76	55.75	-28.99	19.63	Neutral	-	7.13	9.65	0.11	9.87			
QP	183.029k	30.87	64.34	-33.47	19.62	Neutral	-	11.25	9.64	0.11	9.87			
AV	183.029k	26.01	54.34	-28.33	19.62	Neutral	-	6.39	9.64	0.11	9.87			
QP	439.339k	28.77	57.07	-28.30	19.63	Neutral	-	9.14	9.63	0.13	9.87			
AV	439.339k	25.75	47.07	-21.32	19.63	Neutral	-	6.12	9.63	0.13	9.87			
QP	1.618M	28.07	56.00	-27.93	19.65	Neutral	-	8.42	9.64	0.14	9.87			
AV	1.618M	24.73	46.00	-21.27	19.65	Neutral	"Worst"	5.08	9.64	0.14	9.87			
QP	6.915M	23.23	60.00	-36.77	19.79	Neutral	-	3.44	9.68	0.23	9.88			
AV	6.915M	20.55	50.00	-29.45	19.79	Neutral	-	0.76	9.68	0.23	9.88			
QP	18.705M	22.80	60.00	-37.20	19.96	Neutral	-	2.84	9.72	0.35	9.89			
AV	18.705M	19.25	50.00	-30.75	19.96	Neutral	-	-0.71	9.72	0.35	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	5	Power Phase	Line
Operating Function	Test Fixture mode Wi-Sun 50kbps TX (ANT2)		

20/05/2020

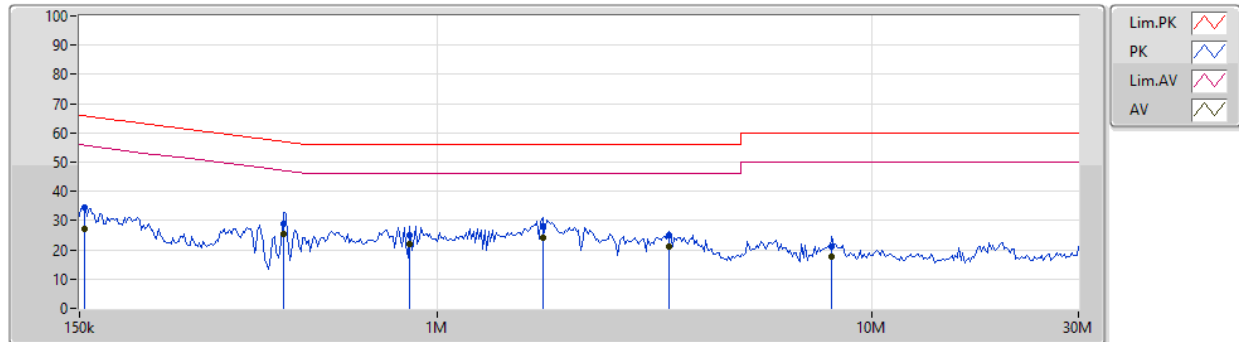


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.091k	31.16	65.67	-34.51	19.64	Line	-	11.52	9.66	0.11	9.87			
AV	156.091k	24.80	55.67	-30.87	19.64	Line	-	5.16	9.66	0.11	9.87			
QP	418.016k	32.33	57.49	-25.16	19.64	Line	-	12.69	9.64	0.13	9.87			
AV	418.016k	28.02	47.49	-19.47	19.64	Line	"Worst"	8.38	9.64	0.13	9.87			
QP	890.466k	20.42	56.00	-35.58	19.62	Line	-	0.80	9.64	0.11	9.87			
AV	890.466k	17.77	46.00	-28.23	19.62	Line	-	-1.85	9.64	0.11	9.87			
QP	1.787M	28.15	56.00	-27.85	19.66	Line	-	8.49	9.65	0.14	9.87			
AV	1.787M	24.93	46.00	-21.07	19.66	Line	-	5.27	9.65	0.14	9.87			
QP	7.054M	23.58	60.00	-36.42	19.79	Line	-	3.79	9.68	0.23	9.88			
AV	7.054M	20.68	50.00	-29.32	19.79	Line	-	0.89	9.68	0.23	9.88			
QP	19.464M	24.36	60.00	-35.64	19.89	Line	-	4.47	9.64	0.36	9.89			
AV	19.464M	20.68	50.00	-29.32	19.89	Line	-	0.79	9.64	0.36	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	6	Power Phase	Neutral
Operating Function	Test Fixture mode Wi-Sun 150kbps TX (ANT2)		

20/05/2020

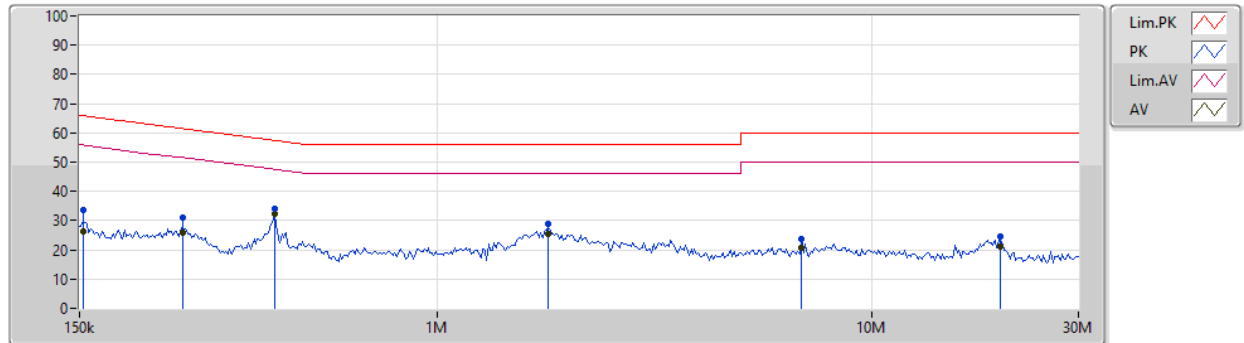


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.545k	34.40	65.75	-31.35	19.63	Neutral	-	14.77	9.65	0.11	9.87			
AV	154.545k	27.35	55.75	-28.40	19.63	Neutral	-	7.72	9.65	0.11	9.87			
QP	443.732k	28.99	56.99	-28.00	19.63	Neutral	-	9.36	9.63	0.13	9.87			
AV	443.732k	25.61	46.99	-21.38	19.63	Neutral	"Worst"	5.98	9.63	0.13	9.87			
QP	864.277k	25.02	56.00	-30.98	19.61	Neutral	-	5.41	9.63	0.11	9.87			
AV	864.277k	22.08	46.00	-23.92	19.61	Neutral	-	2.47	9.63	0.11	9.87			
QP	1.752M	27.81	56.00	-28.19	19.66	Neutral	-	8.15	9.65	0.14	9.87			
AV	1.752M	23.96	46.00	-22.04	19.66	Neutral	-	4.30	9.65	0.14	9.87			
QP	3.412M	25.13	56.00	-30.87	19.72	Neutral	-	5.41	9.66	0.18	9.88			
AV	3.412M	21.17	46.00	-24.83	19.72	Neutral	-	1.45	9.66	0.18	9.88			
QP	8.109M	20.97	60.00	-39.03	19.82	Neutral	-	1.15	9.69	0.25	9.88			
AV	8.109M	17.70	50.00	-32.30	19.82	Neutral	-	-2.12	9.69	0.25	9.88			

AC Power-line Conducted Emissions Result

Operating Mode	6	Power Phase	Line
Operating Function	Test Fixture mode Wi-Sun 150kbps TX (ANT2)		

20/05/2020

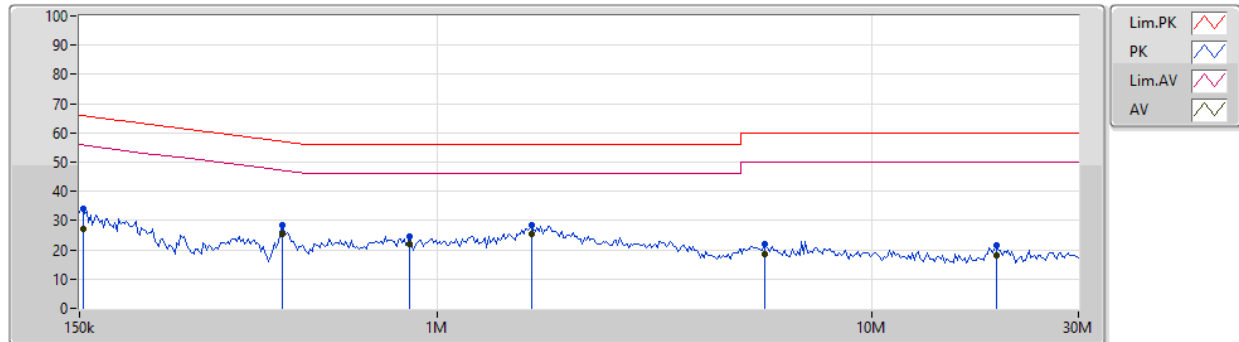


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	33.66	65.83	-32.17	19.64	Line	-	14.02	9.66	0.11	9.87			
AV	153.015k	26.45	55.83	-29.38	19.64	Line	-	6.81	9.66	0.11	9.87			
QP	259.279k	30.88	61.45	-30.57	19.64	Line	-	11.24	9.65	0.12	9.87			
AV	259.279k	25.96	51.45	-25.49	19.64	Line	-	6.32	9.65	0.12	9.87			
QP	422.196k	33.97	57.40	-23.43	19.64	Line	-	14.33	9.64	0.13	9.87			
AV	422.196k	32.39	47.40	-15.01	19.64	Line	"Worst"	12.75	9.64	0.13	9.87			
QP	1.805M	28.67	56.00	-27.33	19.66	Line	-	9.01	9.65	0.14	9.87			
AV	1.805M	25.37	46.00	-20.63	19.66	Line	-	5.71	9.65	0.14	9.87			
QP	6.915M	23.73	60.00	-36.27	19.79	Line	-	3.94	9.68	0.23	9.88			
AV	6.915M	20.63	50.00	-29.37	19.79	Line	-	0.84	9.68	0.23	9.88			
QP	19.856M	24.78	60.00	-35.22	19.89	Line	-	4.89	9.64	0.36	9.89			
AV	19.856M	21.12	50.00	-28.88	19.89	Line	-	1.23	9.64	0.36	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	7	Power Phase	Neutral
Operating Function	Test Fixture mode Wi-Sun 300kbps TX (ANT2)		

20/05/2020

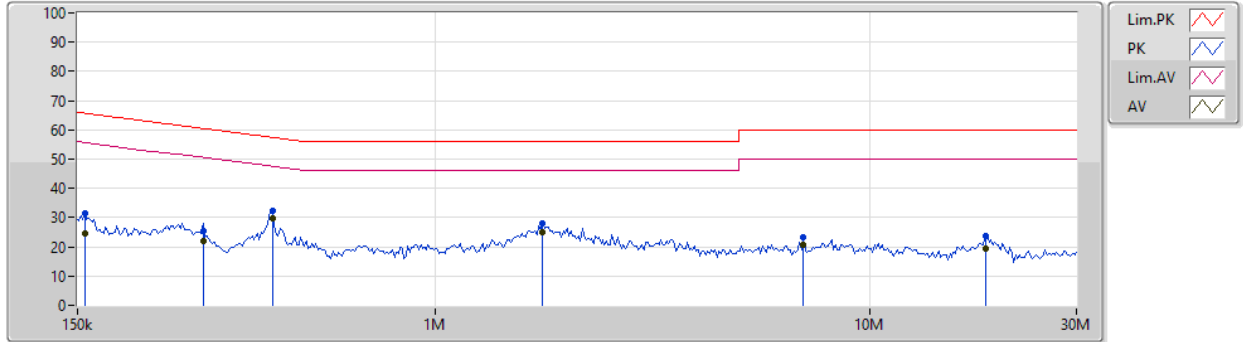


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	34.23	65.83	-31.60	19.63	Neutral	-	14.60	9.65	0.11	9.87			
AV	153.015k	27.02	55.83	-28.81	19.63	Neutral	-	7.39	9.65	0.11	9.87			
QP	439.339k	28.61	57.07	-28.46	19.63	Neutral	-	8.98	9.63	0.13	9.87			
AV	439.339k	25.41	47.07	-21.66	19.63	Neutral	-	5.78	9.63	0.13	9.87			
QP	864.277k	24.78	56.00	-31.22	19.61	Neutral	-	5.17	9.63	0.11	9.87			
AV	864.277k	21.91	46.00	-24.09	19.61	Neutral	-	2.30	9.63	0.11	9.87			
QP	1.65M	28.61	56.00	-27.39	19.65	Neutral	-	8.96	9.64	0.14	9.87			
AV	1.65M	25.41	46.00	-20.59	19.65	Neutral	"Worst"	5.76	9.64	0.14	9.87			
QP	5.668M	21.96	60.00	-38.04	19.77	Neutral	-	2.19	9.68	0.21	9.88			
AV	5.668M	18.66	50.00	-31.34	19.77	Neutral	-	-1.11	9.68	0.21	9.88			
QP	19.464M	21.67	60.00	-38.33	19.97	Neutral	-	1.70	9.72	0.36	9.89			
AV	19.464M	18.15	50.00	-31.85	19.97	Neutral	-	-1.82	9.72	0.36	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	7	Power Phase	Line
Operating Function	Test Fixture mode Wi-Sun 300kbps TX (ANT2)		

20/05/2020

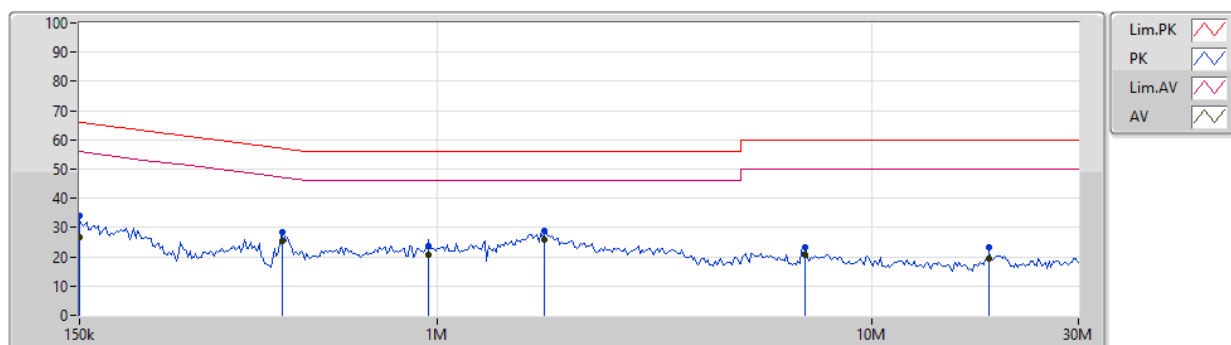


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.091k	31.32	65.67	-34.35	19.64	Line	-	11.68	9.66	0.11	9.87			
AV	156.091k	24.61	55.67	-31.06	19.64	Line	-	4.97	9.66	0.11	9.87			
QP	292.162k	25.49	60.46	-34.97	19.63	Line	-	5.86	9.64	0.12	9.87			
AV	292.162k	21.80	50.46	-28.66	19.63	Line	-	2.17	9.64	0.12	9.87			
QP	422.196k	32.36	57.40	-25.04	19.64	Line	-	12.72	9.64	0.13	9.87			
AV	422.196k	29.74	47.40	-17.66	19.64	Line	"Worst"	10.10	9.64	0.13	9.87			
QP	1.769M	28.11	56.00	-27.89	19.66	Line	-	8.45	9.65	0.14	9.87			
AV	1.769M	24.94	46.00	-21.06	19.66	Line	-	5.28	9.65	0.14	9.87			
QP	7.054M	23.41	60.00	-36.59	19.79	Line	-	3.62	9.68	0.23	9.88			
AV	7.054M	20.61	50.00	-29.39	19.79	Line	-	0.82	9.68	0.23	9.88			
QP	18.52M	23.51	60.00	-36.49	19.89	Line	-	3.62	9.65	0.35	9.89			
AV	18.52M	19.61	50.00	-30.39	19.89	Line	-	-0.28	9.65	0.35	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	8	Power Phase	Neutral
Operating Function	Test Fixture mode Wi-Sun 600kbps TX (ANT2)		

20/05/2020

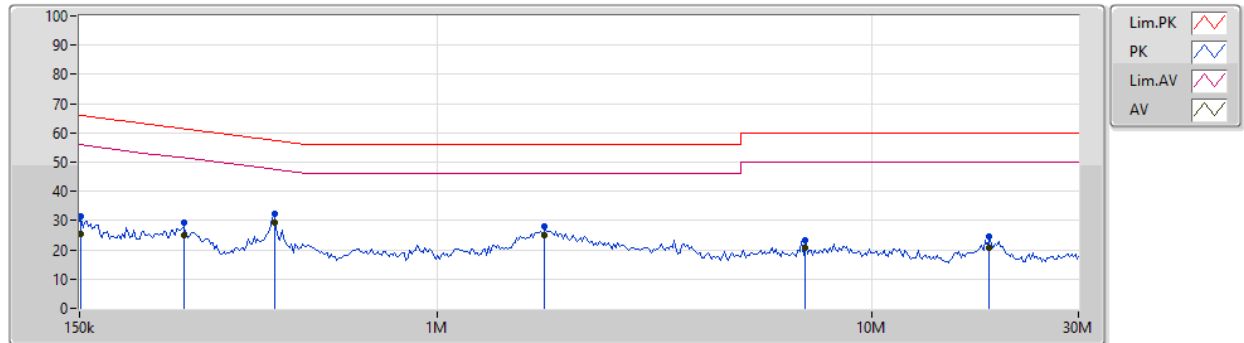


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	33.99	66.00	-32.01	19.63	Neutral	-	14.36	9.65	0.11	9.87			
AV	150k	26.84	56.00	-29.16	19.63	Neutral	-	7.21	9.65	0.11	9.87			
QP	439.339k	28.46	57.07	-28.61	19.63	Neutral	-	8.83	9.63	0.13	9.87			
AV	439.339k	25.37	47.07	-21.70	19.63	Neutral	-	5.74	9.63	0.13	9.87			
QP	954.7k	23.89	56.00	-32.11	19.62	Neutral	-	4.27	9.63	0.11	9.88			
AV	954.7k	20.85	46.00	-25.15	19.62	Neutral	-	1.23	9.63	0.11	9.88			
QP	1.769M	28.83	56.00	-27.17	19.66	Neutral	-	9.17	9.65	0.14	9.87			
AV	1.769M	25.72	46.00	-20.28	19.66	Neutral	"Worst"	6.06	9.65	0.14	9.87			
QP	7.054M	23.26	60.00	-36.74	19.79	Neutral	-	3.47	9.68	0.23	9.88			
AV	7.054M	20.65	50.00	-29.35	19.79	Neutral	-	0.86	9.68	0.23	9.88			
QP	18.705M	23.07	60.00	-36.93	19.96	Neutral	-	3.11	9.72	0.35	9.89			
AV	18.705M	19.27	50.00	-30.73	19.96	Neutral	-	-0.69	9.72	0.35	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	8	Power Phase	Line
Operating Function	Test Fixture mode Wi-Sun 600kbps TX (ANT2)		

20/05/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.5k	31.41	65.92	-34.51	19.64	Line	-	11.77	9.66	0.11	9.87			
AV	151.5k	25.57	55.92	-30.35	19.64	Line	-	5.93	9.66	0.11	9.87			
QP	261.871k	29.25	61.37	-32.12	19.64	Line	-	9.61	9.65	0.12	9.87			
AV	261.871k	24.84	51.37	-26.53	19.64	Line	-	5.20	9.65	0.12	9.87			
QP	422.196k	32.16	57.40	-25.24	19.64	Line	-	12.52	9.64	0.13	9.87			
AV	422.196k	29.47	47.40	-17.93	19.64	Line	"Worst"	9.83	9.64	0.13	9.87			
QP	1.769M	28.11	56.00	-27.89	19.66	Line	-	8.45	9.65	0.14	9.87			
AV	1.769M	24.98	46.00	-21.02	19.66	Line	-	5.32	9.65	0.14	9.87			
QP	7.054M	23.40	60.00	-36.60	19.79	Line	-	3.61	9.68	0.23	9.88			
AV	7.054M	20.64	50.00	-29.36	19.79	Line	-	0.85	9.68	0.23	9.88			
QP	18.705M	24.71	60.00	-35.29	19.88	Line	-	4.83	9.64	0.35	9.89			
AV	18.705M	20.83	50.00	-29.17	19.88	Line	-	0.95	9.64	0.35	9.89			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
Wi-Sun-50_Nss1_1TX(Port1)	99.5k	92.354k	92K4D1D	97k	91.354k
Wi-Sun-50_Nss1_1TX(Port2)	101k	92.754k	92K8D1D	96.75k	91.554k
Wi-Sun-150_Nss1_1TX(Port1)	185.5k	168.316k	168KD1D	184.5k	166.717k
Wi-Sun-150_Nss1_1TX(Port2)	185.5k	167.516k	168KD1D	184.5k	167.516k
Wi-Sun-300_Nss1_1TX(Port1)	375k	355.022k	355KD1D	374.25k	353.823k
Wi-Sun-300_Nss1_1TX(Port2)	375.75k	359.22k	359KD1D	373.5k	353.223k
Wi-Sun-600_Nss1_1TX(Port1)	756.25k	659.67k	660KD1D	753.75k	658.671k
Wi-Sun-600_Nss1_1TX(Port2)	755k	660.67k	661KD1D	748.75k	657.671k

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;

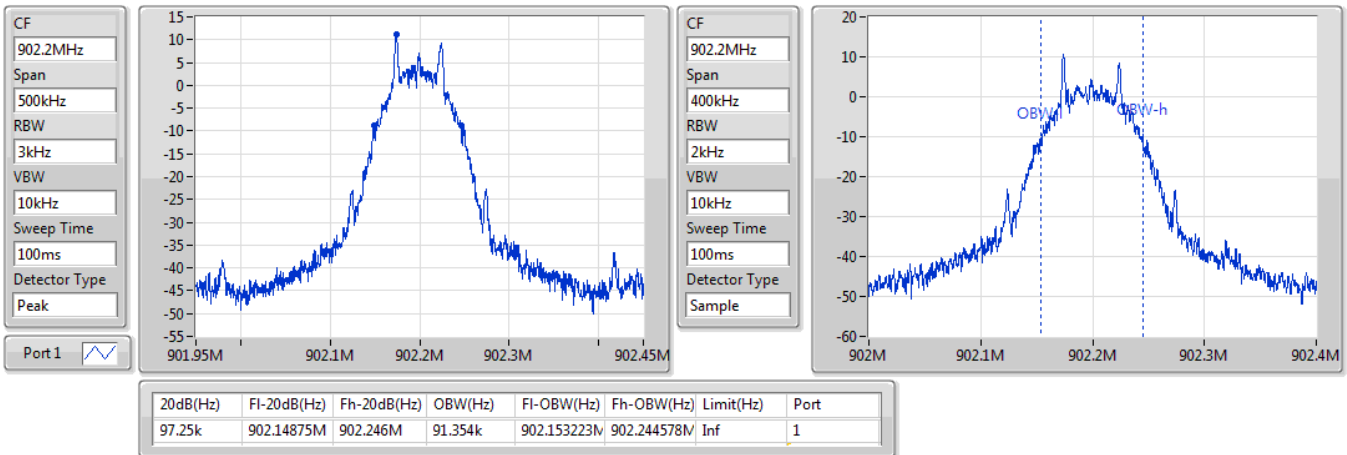
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
Wi-Sun-50_Nss1_1TX(Port1)	-	-	-	-	-	-
902.2MHz	Pass	Inf	97.25k	91.354k		
915.0MHz	Pass	Inf	99.5k	92.354k		
927.8MHz	Pass	Inf	97k	91.954k		
Wi-Sun-50_Nss1_1TX(Port2)	-	-	-	-	-	-
902.2MHz	Pass	Inf			99.5k	92.754k
915.0MHz	Pass	Inf			101k	91.554k
927.8MHz	Pass	Inf			96.75k	91.554k
Wi-Sun-150_Nss1_1TX(Port1)	-	-	-	-	-	-
902.4MHz	Pass	Inf	185.5k	167.516k		
915.2MHz	Pass	Inf	185k	166.717k		
927.6MHz	Pass	Inf	184.5k	168.316k		
Wi-Sun-150_Nss1_1TX(Port2)	-	-	-	-	-	-
902.4MHz	Pass	Inf			184.5k	167.516k
915.2MHz	Pass	Inf			185.5k	167.516k
927.6MHz	Pass	Inf			185k	167.516k
Wi-Sun-300_Nss1_1TX(Port1)	-	-	-	-	-	-
902.6MHz	Pass	Inf	375k	355.022k		
915.2MHz	Pass	Inf	375k	355.022k		
927.2MHz	Pass	Inf	374.25k	353.823k		
Wi-Sun-300_Nss1_1TX(Port2)	-	-	-	-	-	-
902.6MHz	Pass	Inf			373.5k	359.22k
915.2MHz	Pass	Inf			375.75k	354.423k
927.2MHz	Pass	Inf			375k	353.223k
Wi-Sun-600_Nss1_1TX(Port1)	-	-	-	-	-	-
903.0MHz	Pass	Inf	755k	659.67k		
915.0MHz	Pass	Inf	756.25k	659.67k		
927.0MHz	Pass	Inf	753.75k	658.671k		
Wi-Sun-600_Nss1_1TX(Port2)	-	-	-	-	-	-
903.0MHz	Pass	Inf			755k	660.67k
915.0MHz	Pass	Inf			751.25k	659.67k
927.0MHz	Pass	Inf			748.75k	657.671k

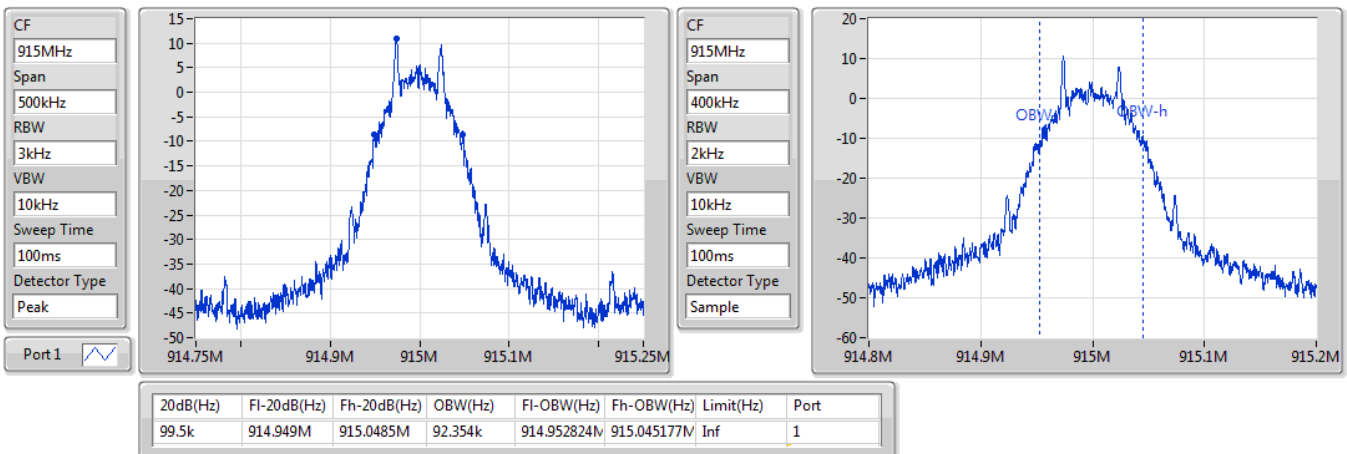
Port X-N dB = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

Wi-Sun-50_Nss1_1TX(Port1)
EBW
902.2MHz

22/05/2020

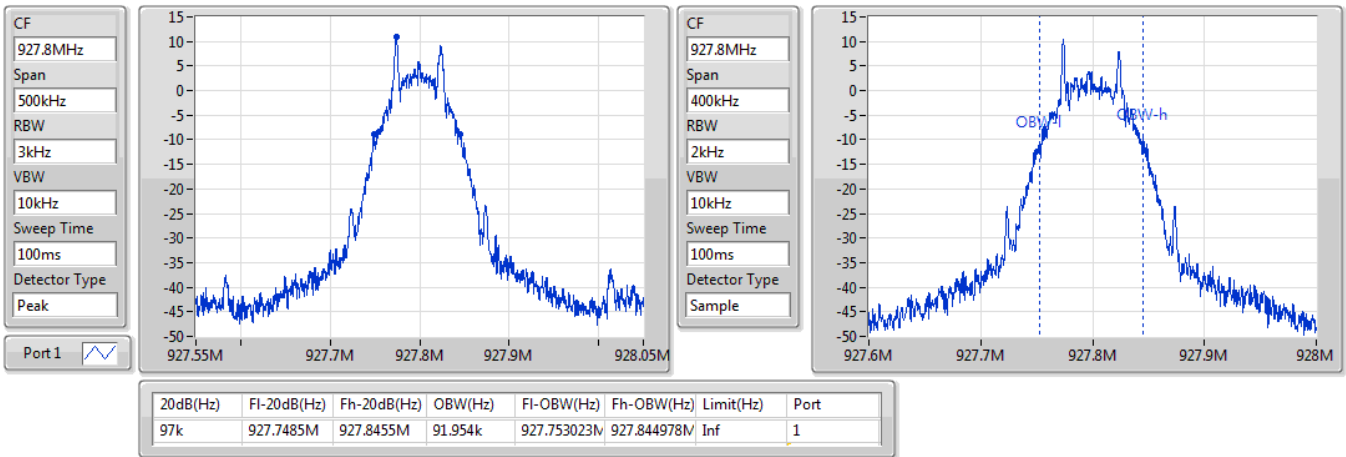

Wi-Sun-50_Nss1_1TX(Port1)
EBW
915.0MHz

22/05/2020

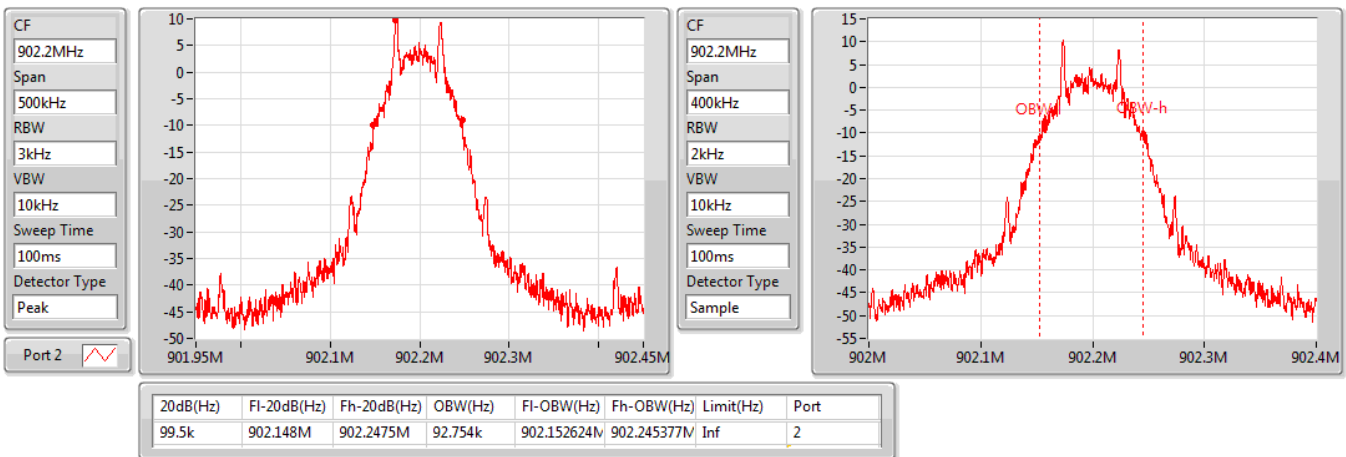


Wi-Sun-50_Nss1_1TX(Port1)
EBW
927.8MHz

22/05/2020

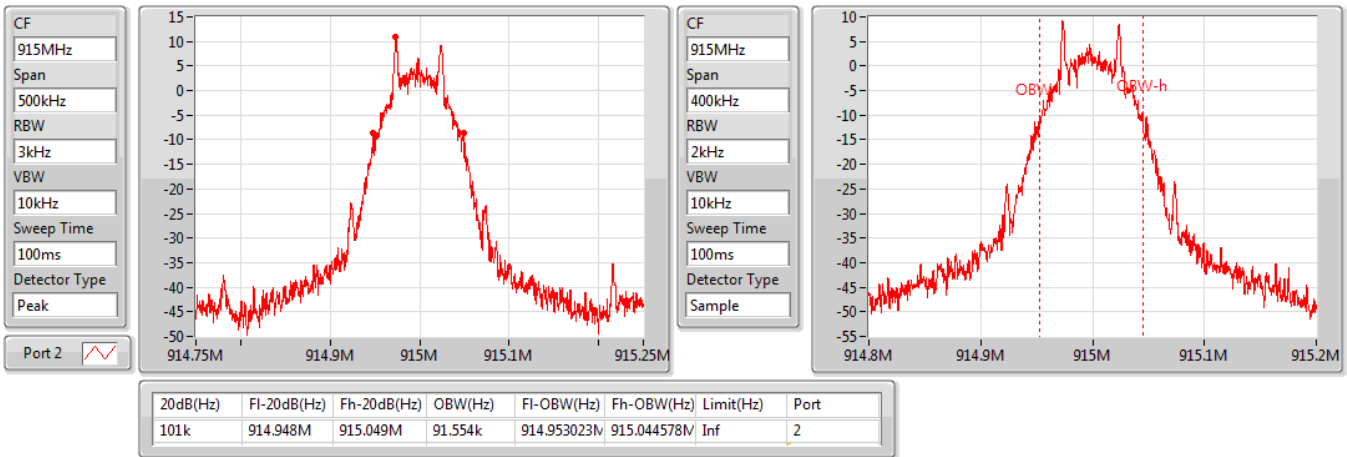

Wi-Sun-50_Nss1_1TX(Port2)
EBW
902.2MHz

22/05/2020

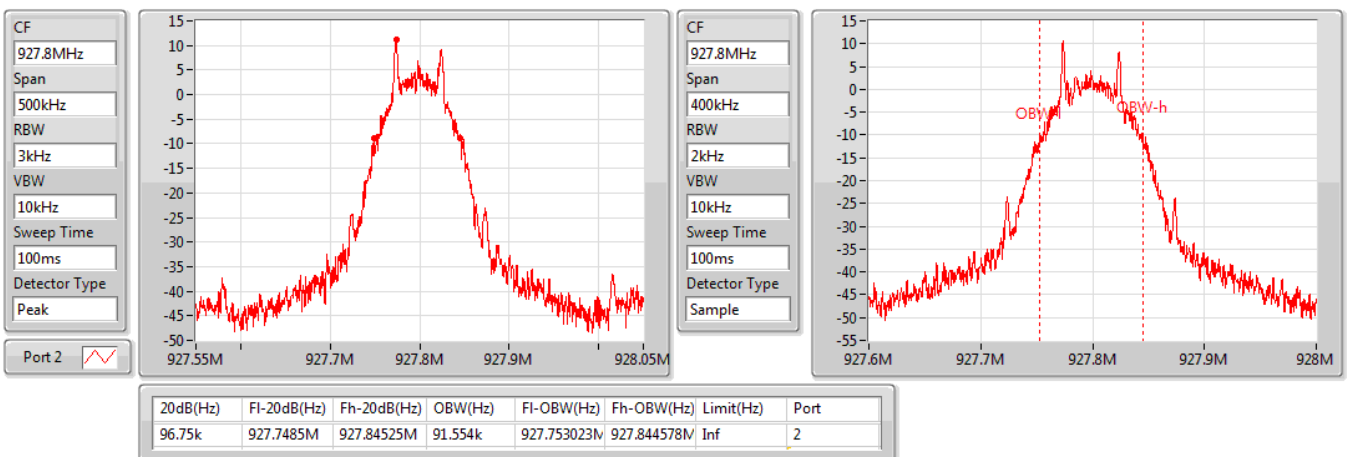


Wi-Sun-50_Nss1_1TX(Port2)
EBW
915.0MHz

22/05/2020

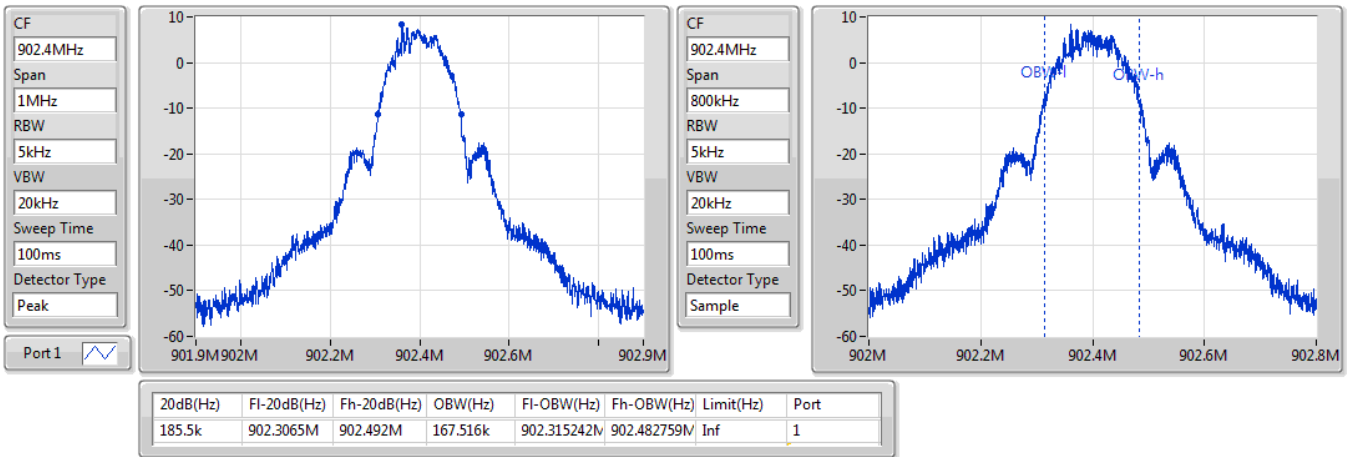

Wi-Sun-50_Nss1_1TX(Port2)
EBW
927.8MHz

22/05/2020

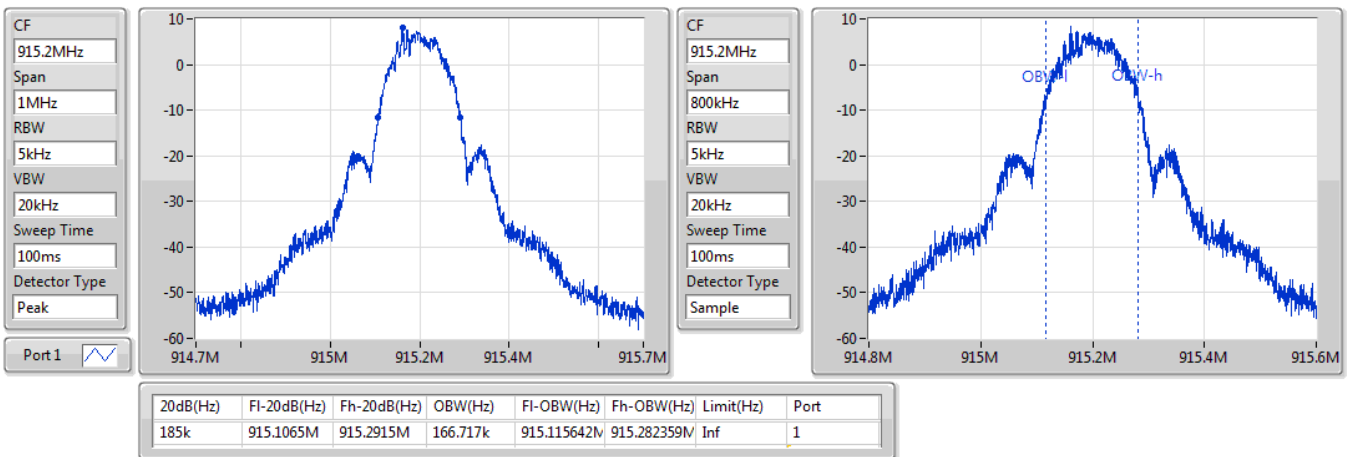


Wi-Sun-150_Nss1_1TX(Port1)
EBW
902.4MHz

22/05/2020

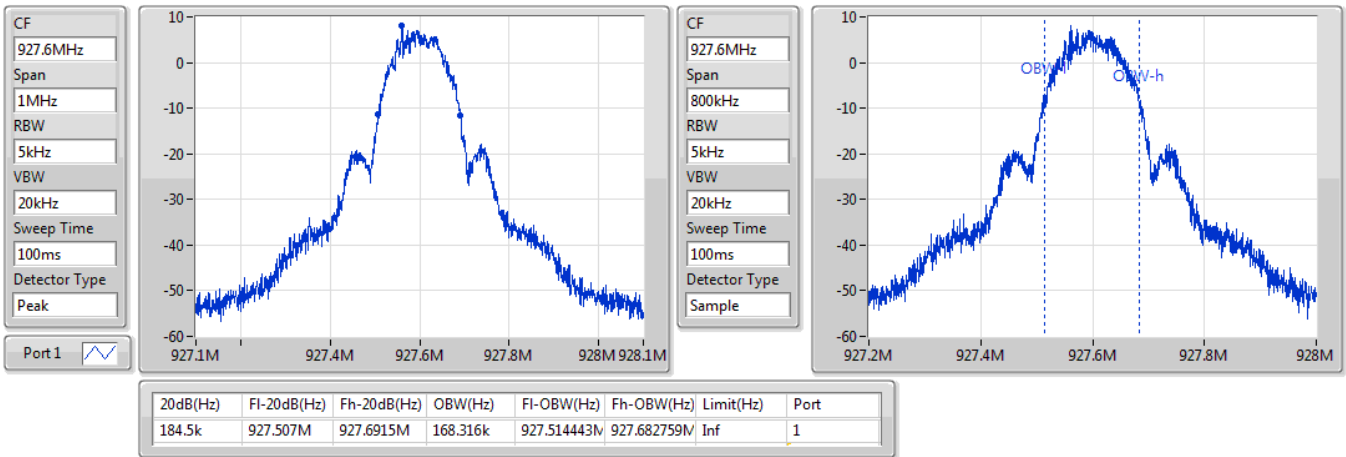

Wi-Sun-150_Nss1_1TX(Port1)
EBW
915.2MHz

22/05/2020

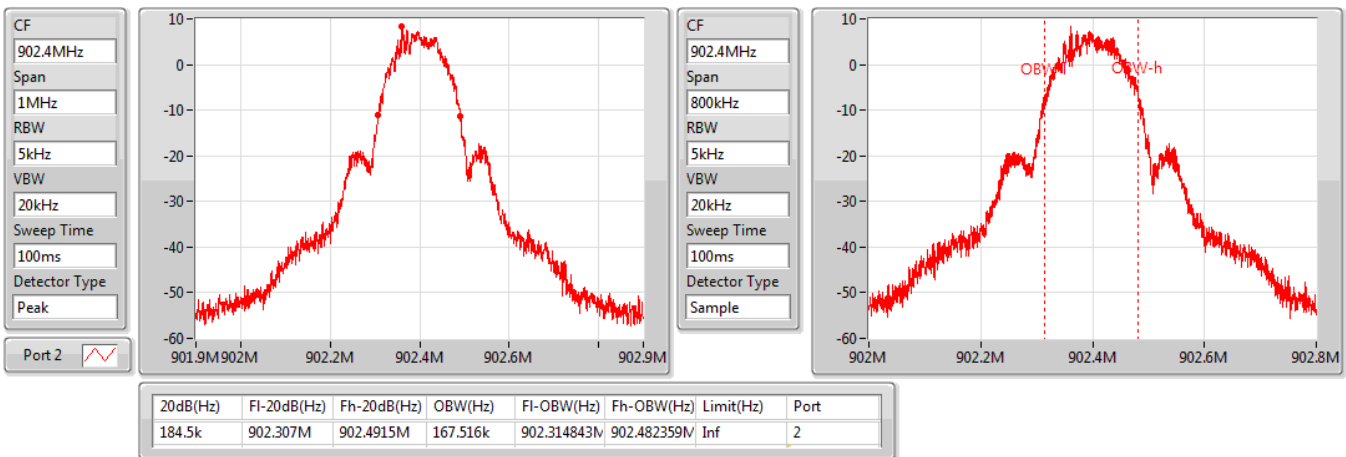


Wi-Sun-150_Nss1_1TX(Port1)
EBW
927.6MHz

22/05/2020

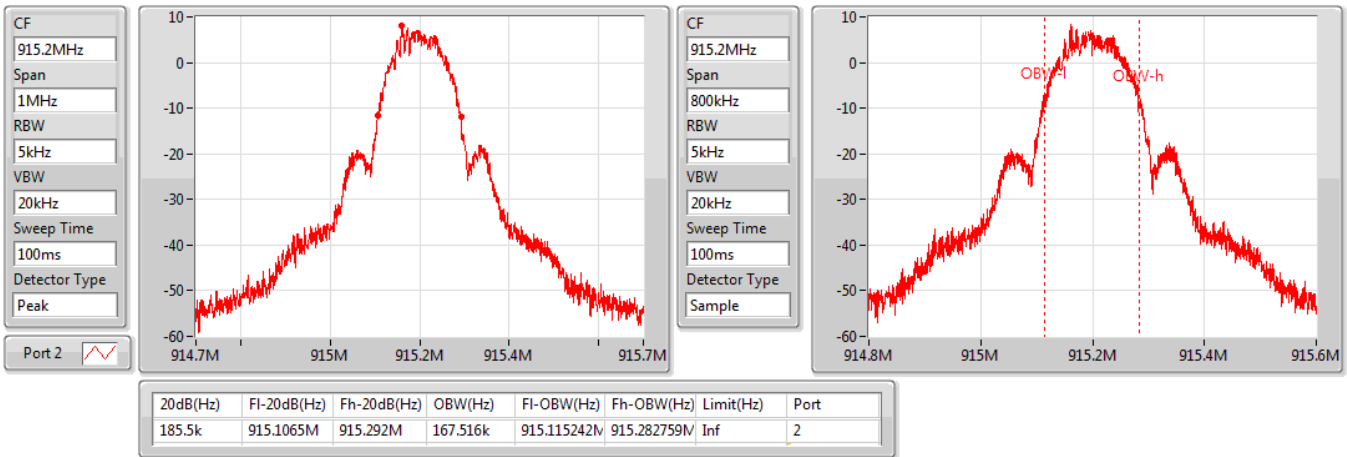

Wi-Sun-150_Nss1_1TX(Port2)
EBW
902.4MHz

22/05/2020

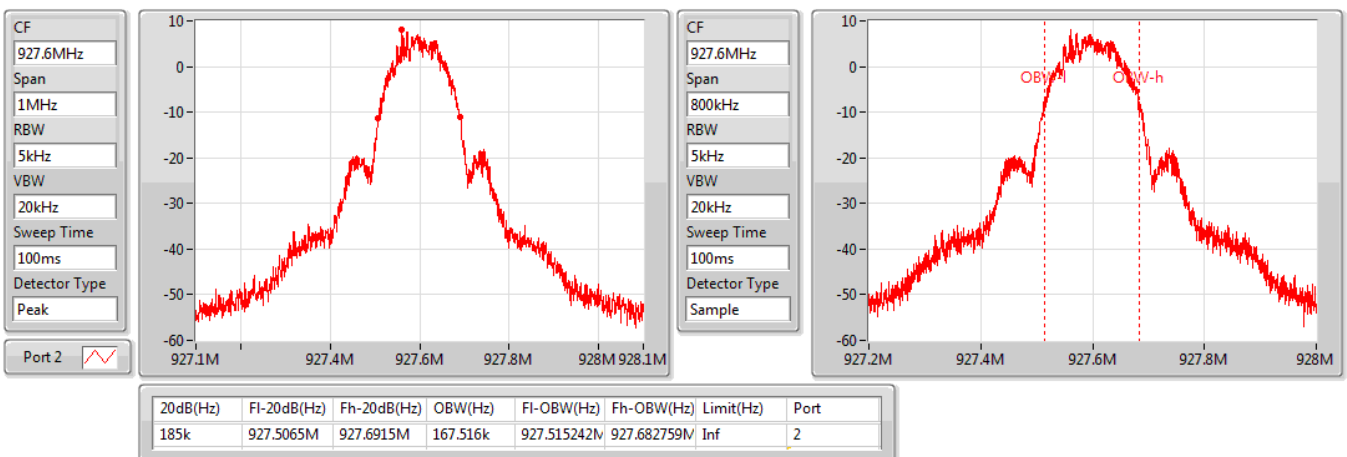


Wi-Sun-150_Nss1_1TX(Port2)
EBW
915.2MHz

22/05/2020

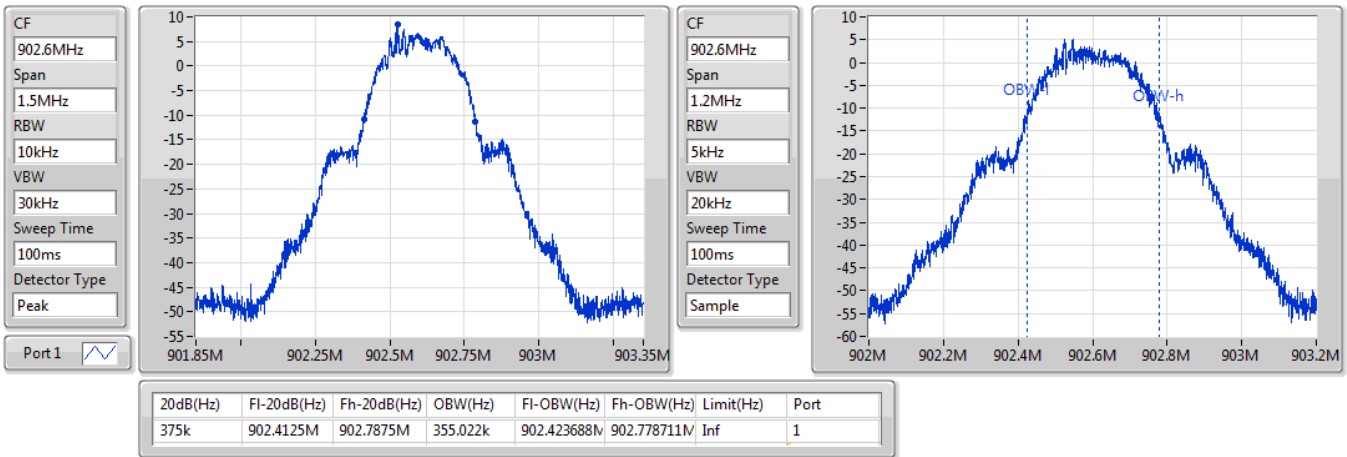

Wi-Sun-150_Nss1_1TX(Port2)
EBW
927.6MHz

22/05/2020

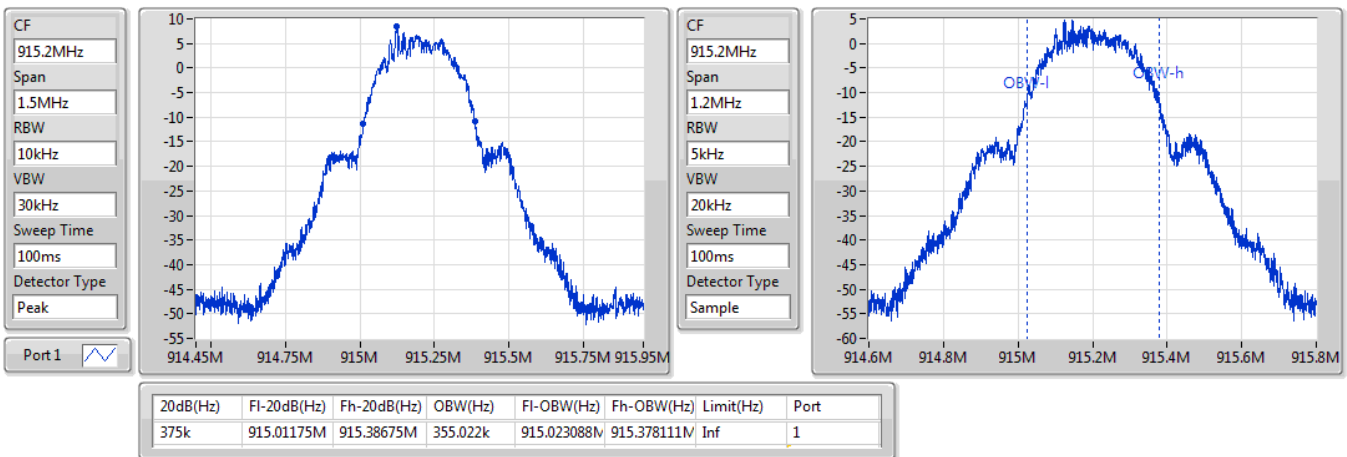


Wi-Sun-300_Nss1_1TX(Port1)
EBW
902.6MHz

22/05/2020

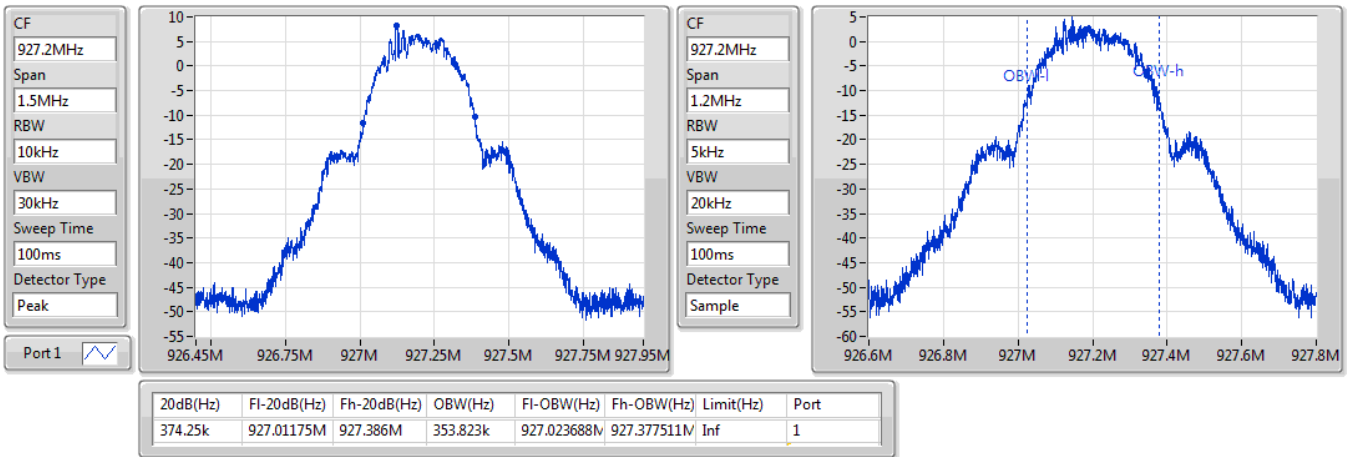

Wi-Sun-300_Nss1_1TX(Port1)
EBW
915.2MHz

22/05/2020

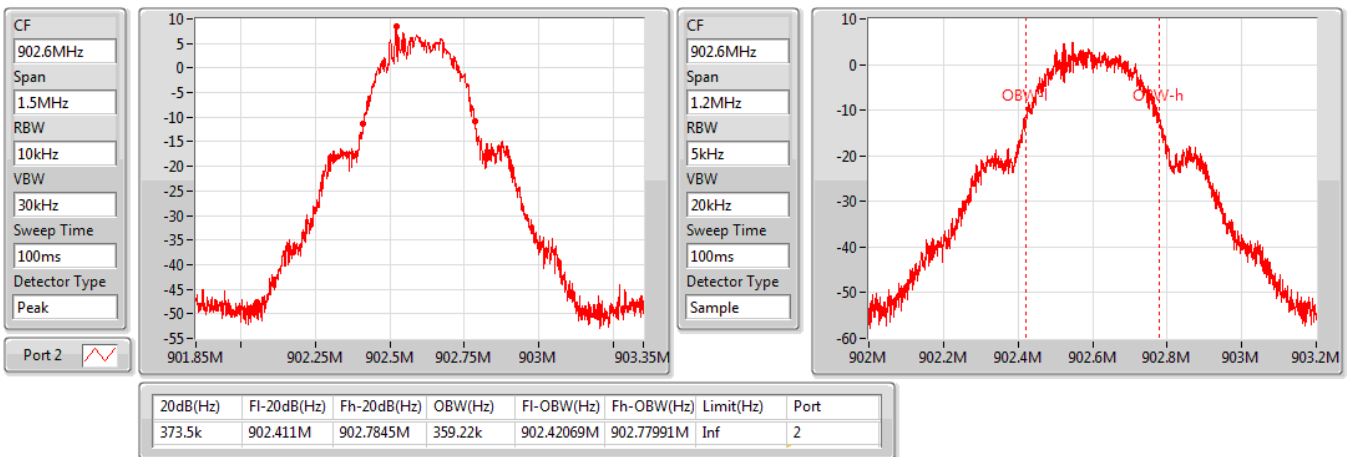


Wi-Sun-300_Nss1_1TX(Port1)
EBW
927.2MHz

22/05/2020

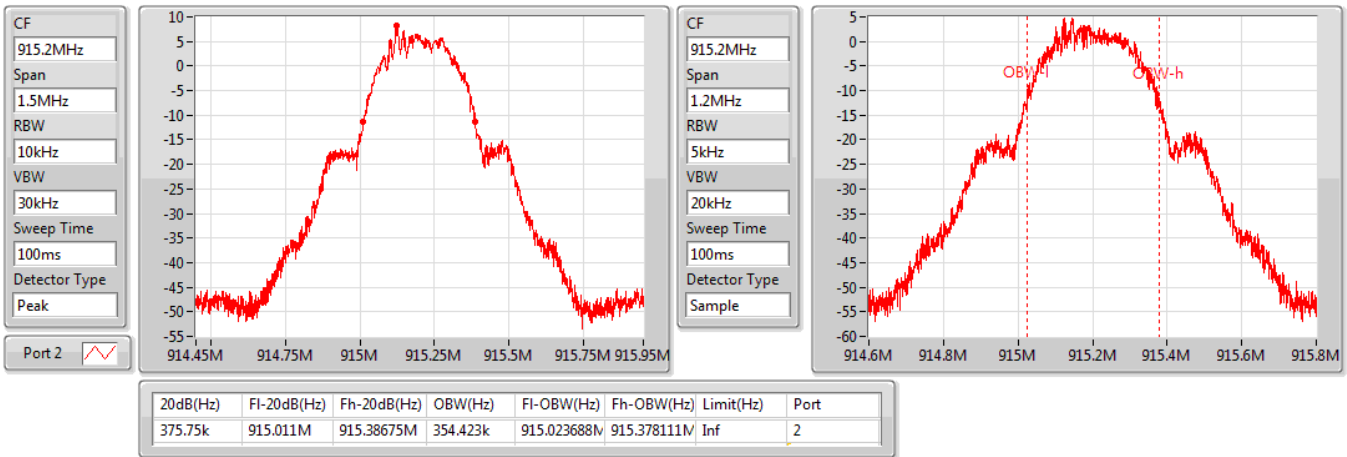

Wi-Sun-300_Nss1_1TX(Port2)
EBW
902.6MHz

22/05/2020

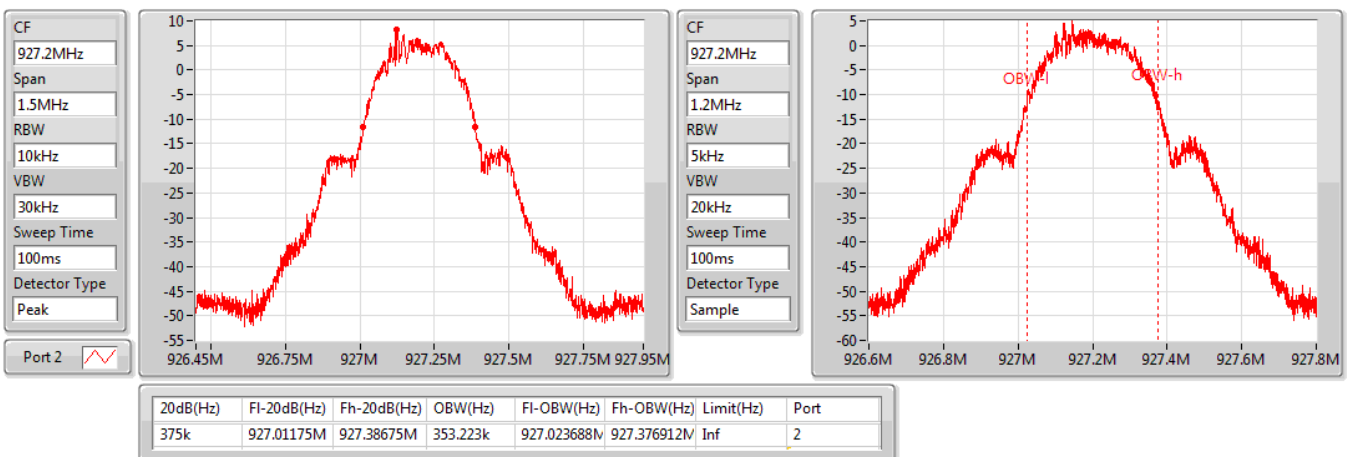


Wi-Sun-300_Nss1_1TX(Port2)
EBW
915.2MHz

22/05/2020

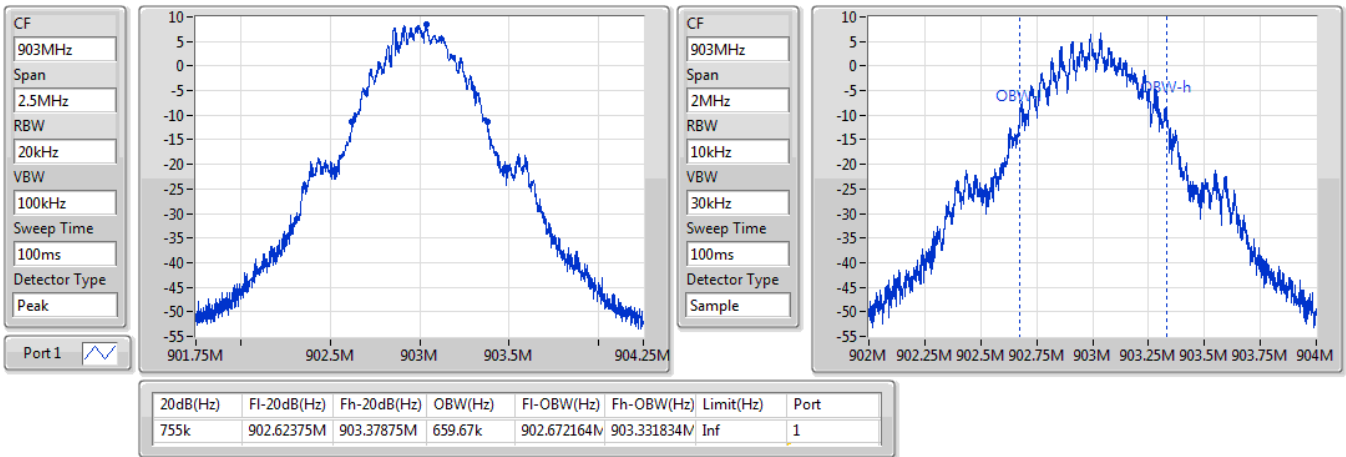

Wi-Sun-300_Nss1_1TX(Port2)
EBW
927.2MHz

22/05/2020

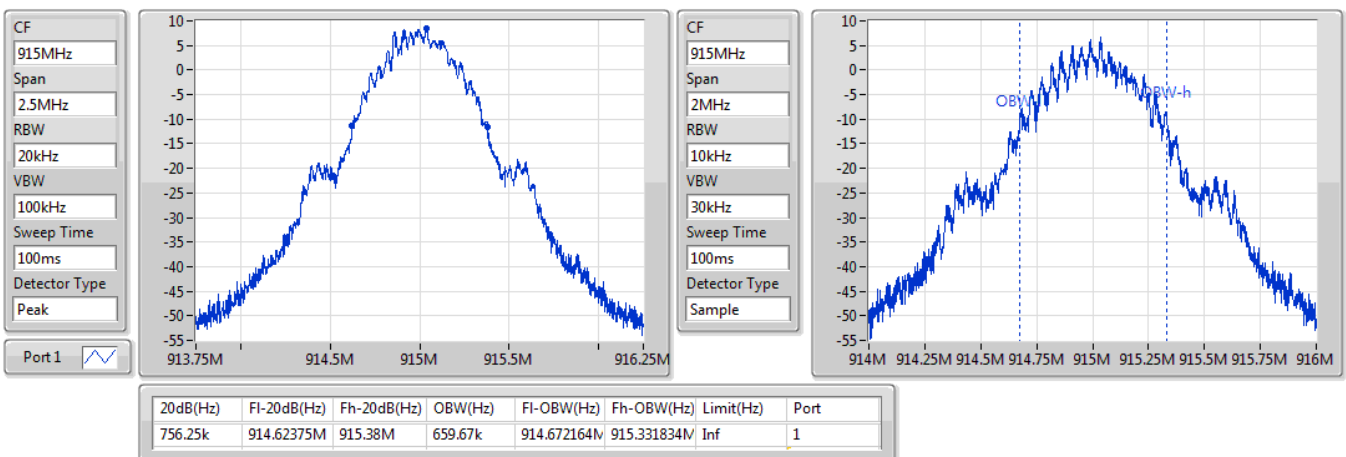


Wi-Sun-600_Nss1_1TX(Port1)
EBW
903.0MHz

22/05/2020

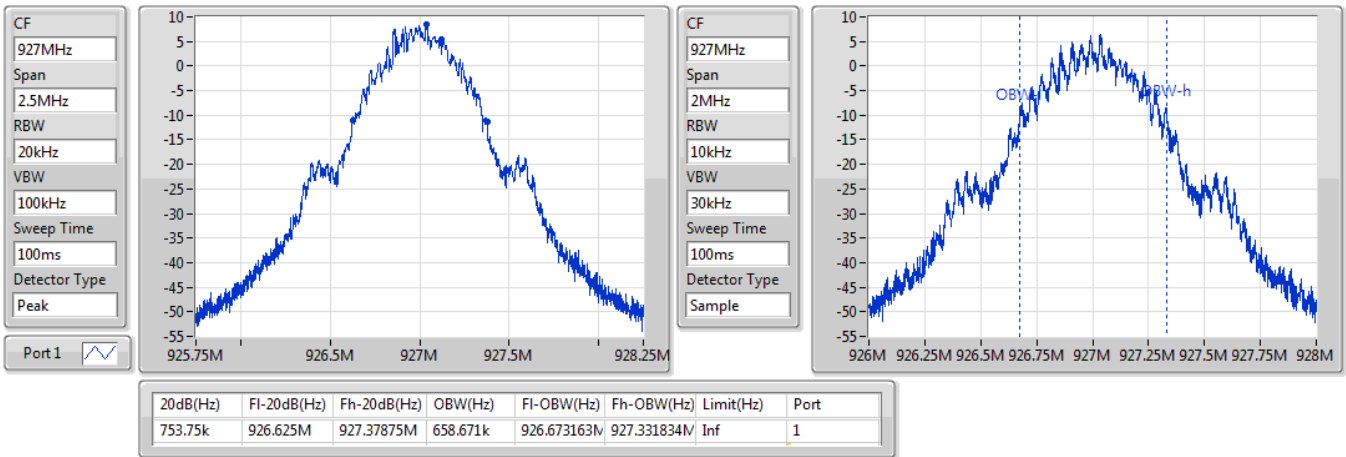

Wi-Sun-600_Nss1_1TX(Port1)
EBW
915.0MHz

22/05/2020

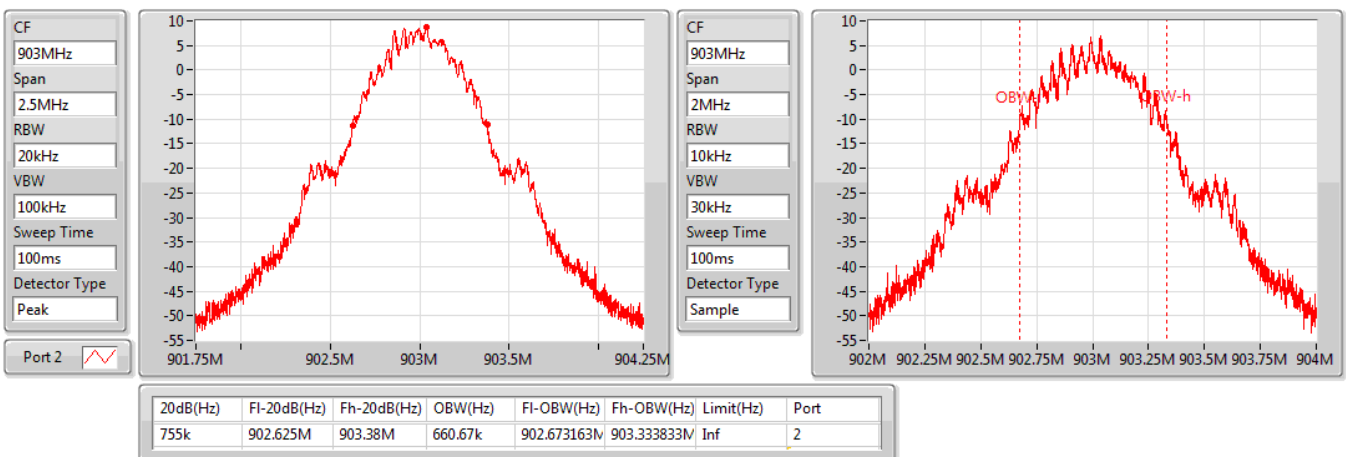


Wi-Sun-600_Nss1_1TX(Port1)
EBW
927.0MHz

22/05/2020

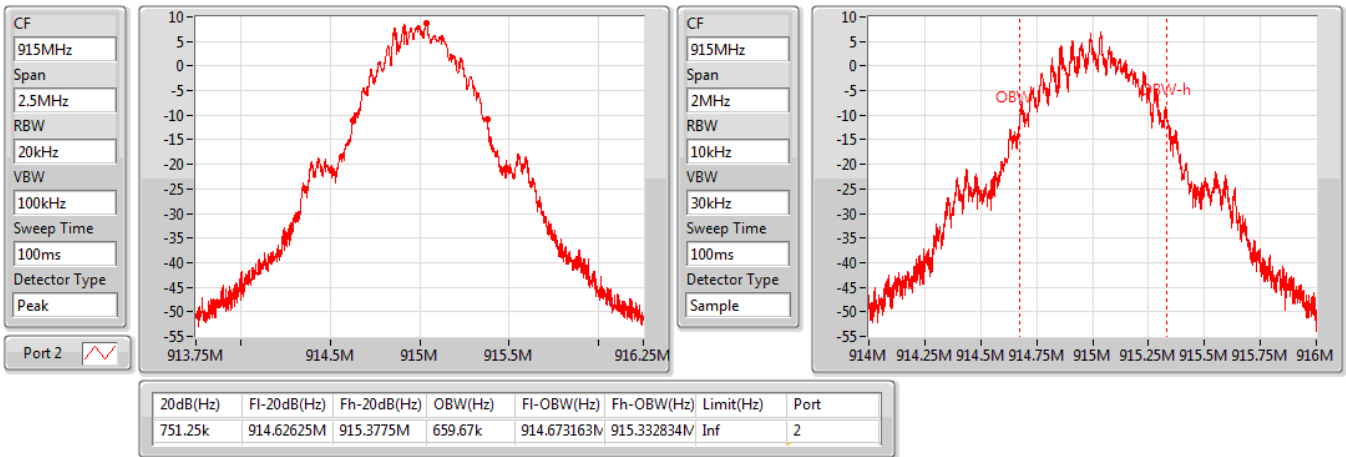

Wi-Sun-600_Nss1_1TX(Port2)
EBW
903.0MHz

22/05/2020

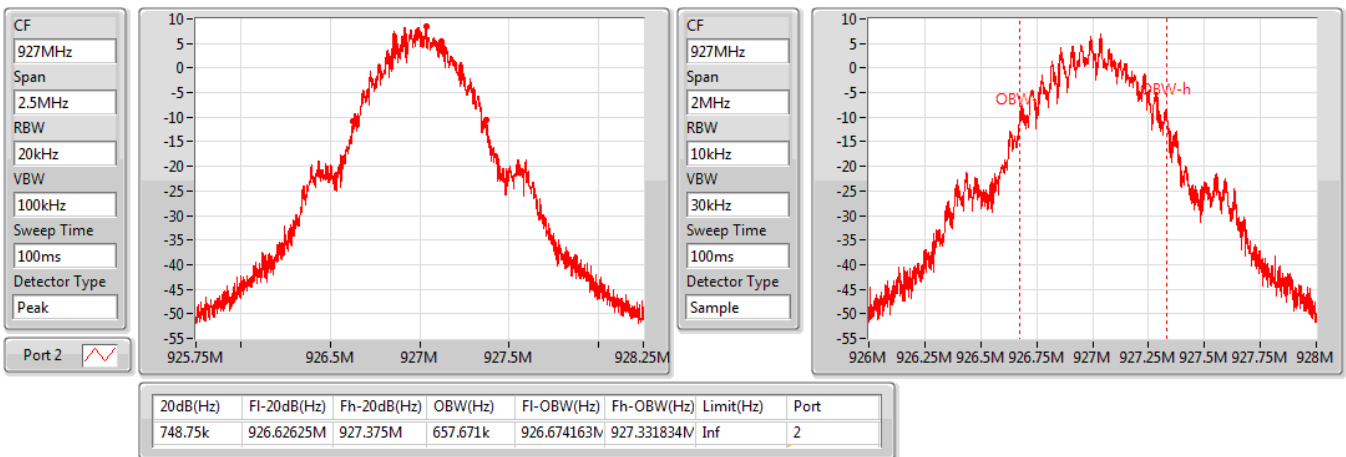


Wi-Sun-600_Nss1_1TX(Port2)
EBW
915.0MHz

22/05/2020


Wi-Sun-600_Nss1_1TX(Port2)
EBW
927.0MHz

22/05/2020





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
902-928MHz	-	-
Wi-Sun-50_Nss1_1TX(Port1)	201.3k	198.3k
Wi-Sun-50_Nss1_1TX(Port2)	201k	200.1k
Wi-Sun-150_Nss1_1TX(Port1)	400.2k	399k
Wi-Sun-150_Nss1_1TX(Port2)	400.2k	399.6k
Wi-Sun-300_Nss1_1TX(Port1)	601.2k	600.3k
Wi-Sun-300_Nss1_1TX(Port2)	601.2k	600.3k
Wi-Sun-600_Nss1_1TX(Port1)	1.002M	997.5k
Wi-Sun-600_Nss1_1TX(Port2)	1.0005M	999k

Result

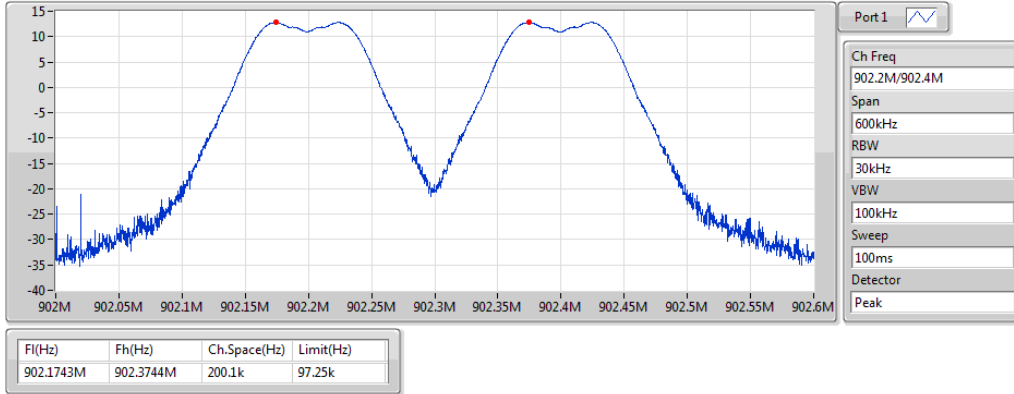
Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
Wi-Sun-50_Nss1_1TX(Port1)	-	-	-	-	-
902.2MHz	Pass	902.1743M	902.3744M	200.1k	97.25k
915.0MHz	Pass	914.9746M	915.1729M	198.3k	99.5k
927.8MHz	Pass	927.5731M	927.7744M	201.3k	97k
Wi-Sun-50_Nss1_1TX(Port2)	-	-	-	-	-
902.2MHz	Pass	902.2232M	902.4239M	200.7k	99.5k
915.0MHz	Pass	914.974M	915.175M	201k	101k
927.8MHz	Pass	927.5737M	927.7738M	200.1k	96.75k
Wi-Sun-150_Nss1_1TX(Port1)	-	-	-	-	-
902.4MHz	Pass	902.4368M	902.8364M	399.6k	185.5k
915.2MHz	Pass	915.2356M	915.6358M	400.2k	185k
927.6MHz	Pass	927.2362M	927.6352M	399k	184.5k
Wi-Sun-150_Nss1_1TX(Port2)	-	-	-	-	-
902.4MHz	Pass	902.4362M	902.8364M	400.2k	184.5k
915.2MHz	Pass	915.1606M	915.5602M	399.6k	185.5k
927.6MHz	Pass	927.2368M	927.6364M	399.6k	185k
Wi-Sun-300_Nss1_1TX(Port1)	-	-	-	-	-
902.6MHz	Pass	902.6741M	903.2744M	600.3k	375k
915.2MHz	Pass	915.2741M	915.8753M	601.2k	375k
927.2MHz	Pass	926.6732M	927.2735M	600.3k	374.25k
Wi-Sun-300_Nss1_1TX(Port2)	-	-	-	-	-
902.6MHz	Pass	902.6723M	903.2735M	601.2k	373.5k
915.2MHz	Pass	915.2732M	915.8735M	600.3k	375.75k
927.2MHz	Pass	926.6732M	927.2735M	600.3k	375k
Wi-Sun-600_Nss1_1TX(Port1)	-	-	-	-	-
903.0MHz	Pass	903.0395M	904.04M	1.0005M	755k
915.0MHz	Pass	915.041M	916.0385M	997.5k	756.25k
927.0MHz	Pass	926.0395M	927.0415M	1.002M	753.75k
Wi-Sun-600_Nss1_1TX(Port2)	-	-	-	-	-
903.0MHz	Pass	903.0395M	904.04M	1.0005M	755k
915.0MHz	Pass	915.041M	916.04M	999k	751.25k
927.0MHz	Pass	926.0395M	927.04M	1.0005M	748.75k

Wi-Sun-50_Nss1_1TX(Port1)

Channel Separation

902.2M/902.4MHz

22/05/2020

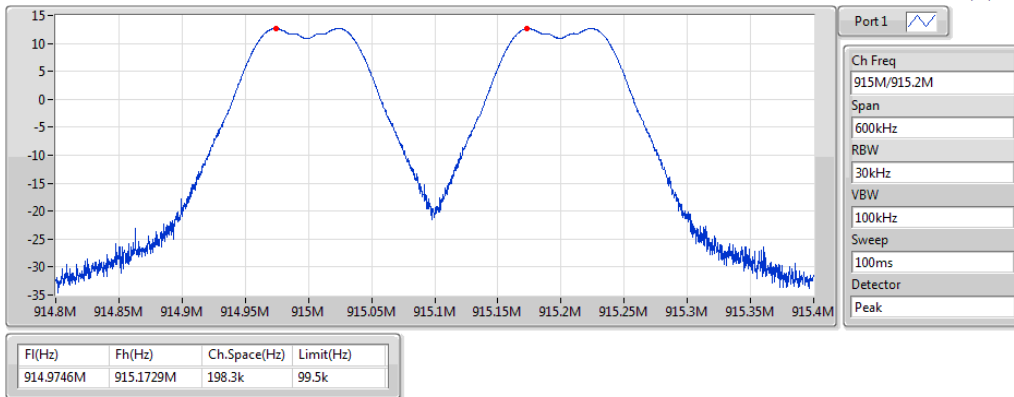


Wi-Sun-50_Nss1_1TX(Port1)

Channel Separation

915M/915.2MHz

22/05/2020

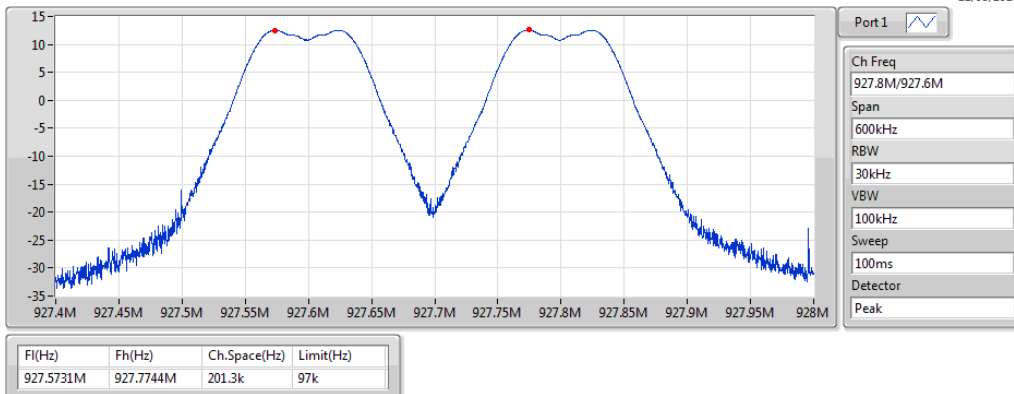


Wi-Sun-50_Nss1_1TX(Port1)

Channel Separation

927.8M/927.6MHz

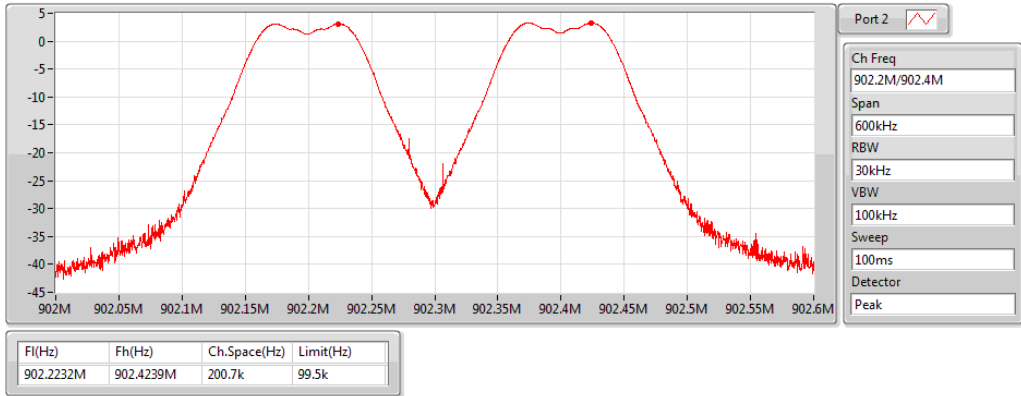
22/05/2020



Wi-Sun-50_Nss1_1TX(Port2)

Channel Separation

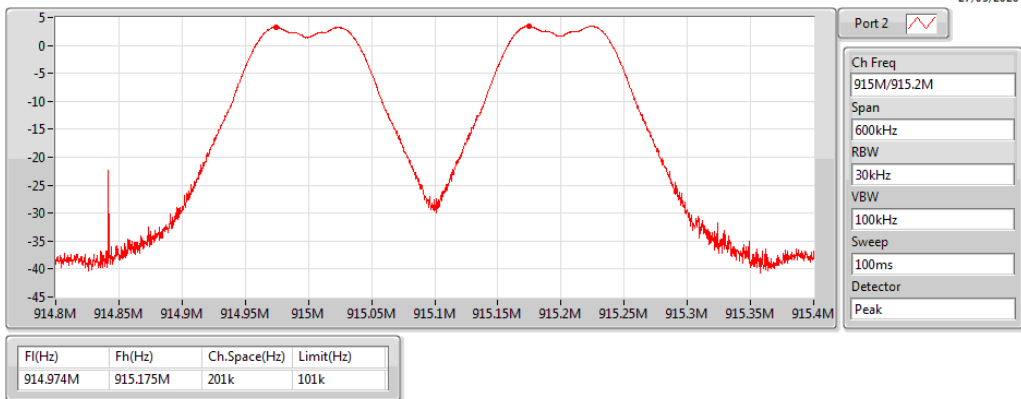
902.2M/902.4MHz



Wi-Sun-50_Nss1_1TX(Port2)

Channel Separation

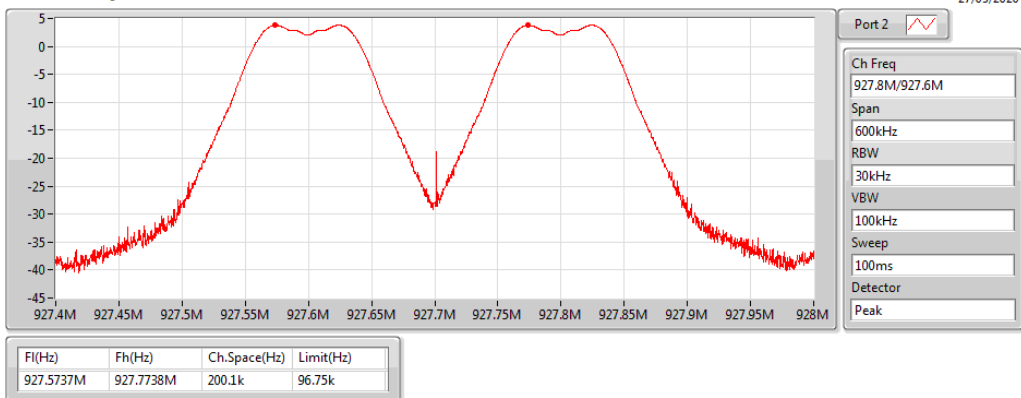
915M/915.2MHz



Wi-Sun-50_Nss1_1TX(Port2)

Channel Separation

927.8M/927.6MHz

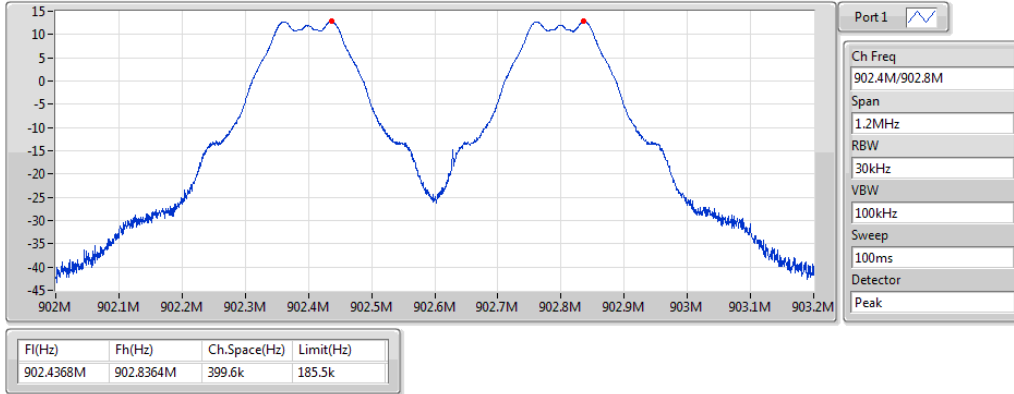


Wi-Sun-150_Nss1_1TX(Port1)

Channel Separation

902.4M/902.8MHz

22/05/2020

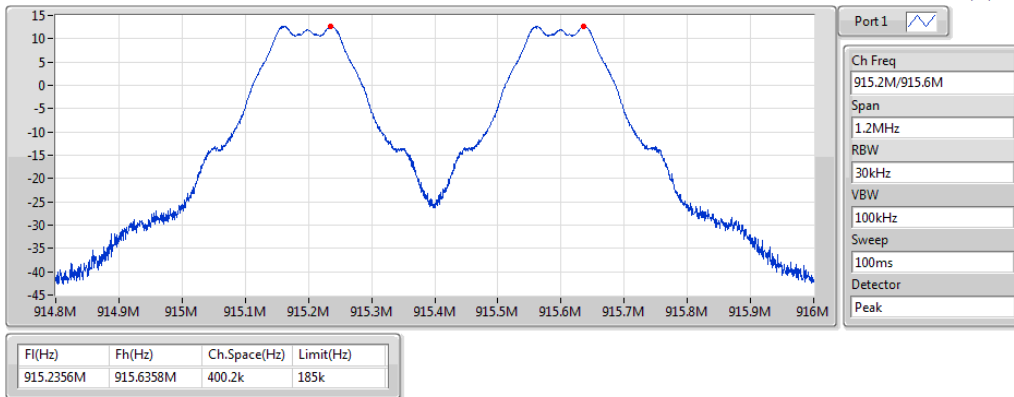


Wi-Sun-150_Nss1_1TX(Port1)

Channel Separation

915.2M/915.6MHz

22/05/2020

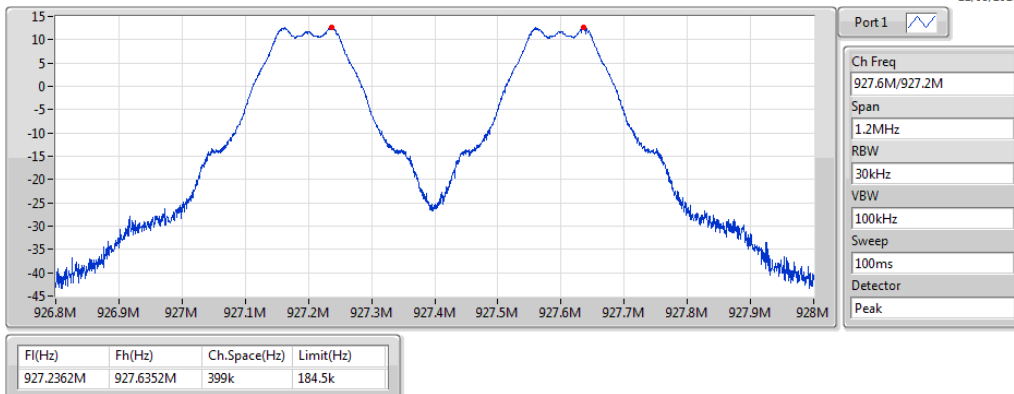


Wi-Sun-150_Nss1_1TX(Port1)

Channel Separation

927.6M/927.2MHz

22/05/2020

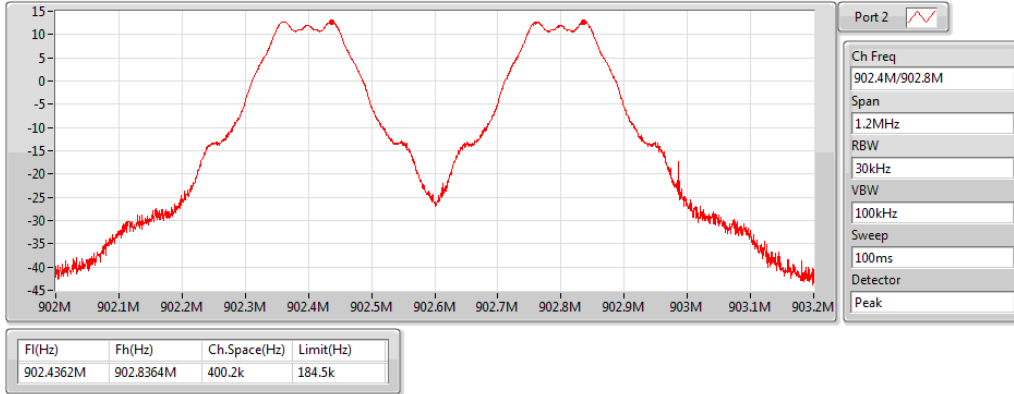


Wi-Sun-150_Nss1_1TX(Port2)

Channel Separation

902.4M/902.8MHz

22/05/2020

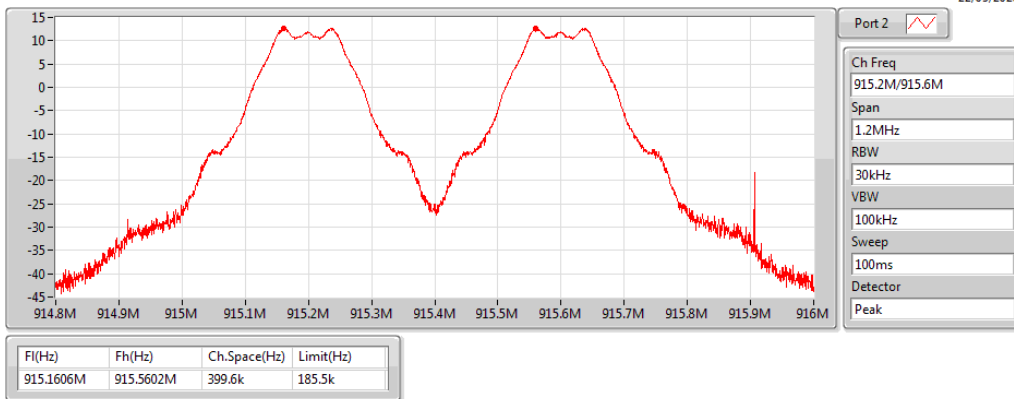


Wi-Sun-150_Nss1_1TX(Port2)

Channel Separation

915.2M/915.6MHz

22/05/2020

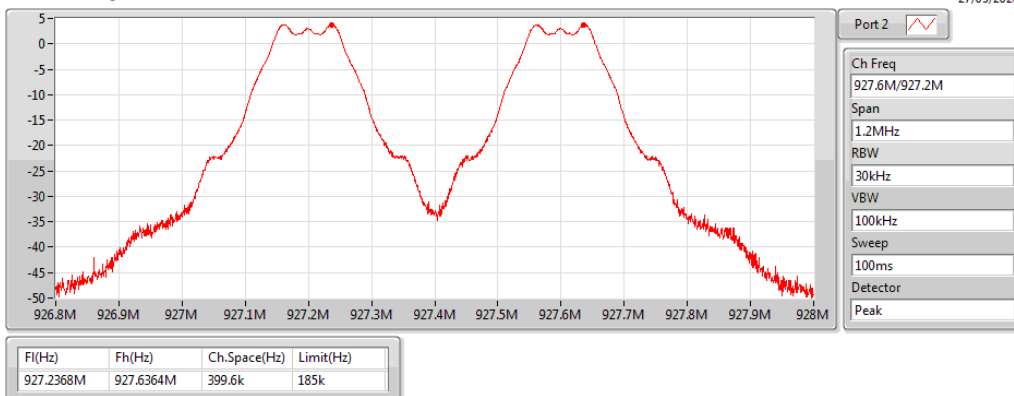


Wi-Sun-150_Nss1_1TX(Port2)

Channel Separation

927.6M/927.2MHz

27/05/2020

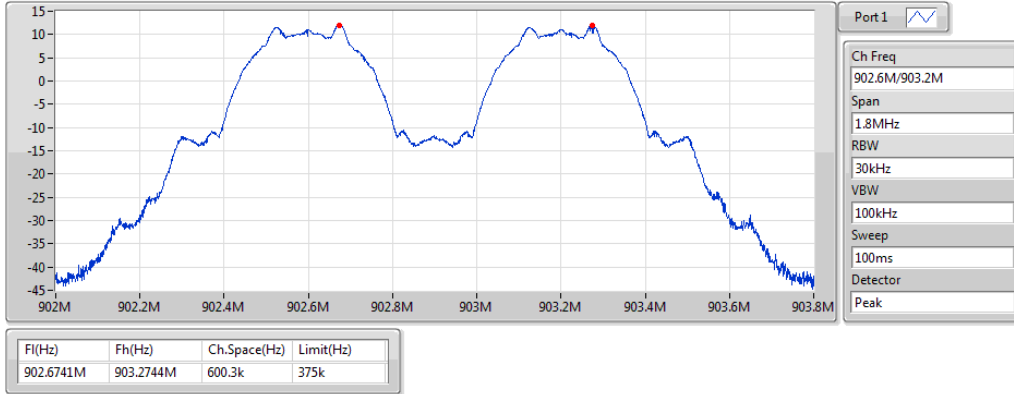


Wi-Sun-300_Nss1_1TX(Port1)

Channel Separation

902.6M/903.2MHz

22/05/2020

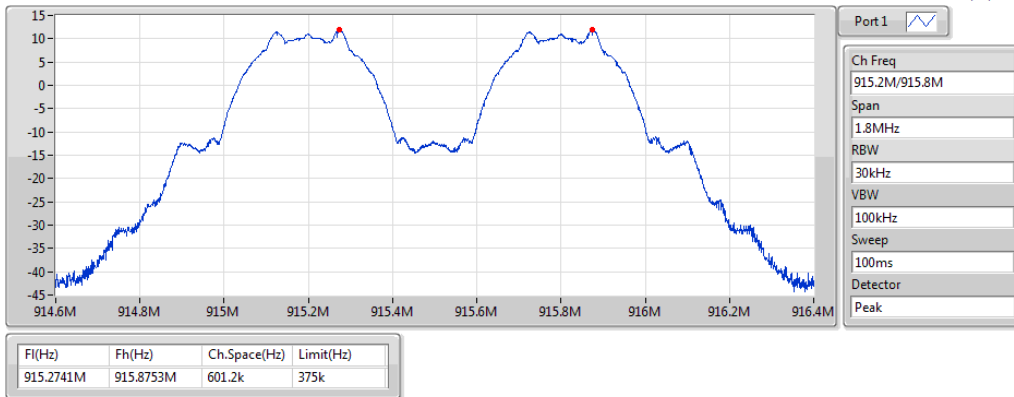


Wi-Sun-300_Nss1_1TX(Port1)

Channel Separation

915.2M/915.8MHz

22/05/2020

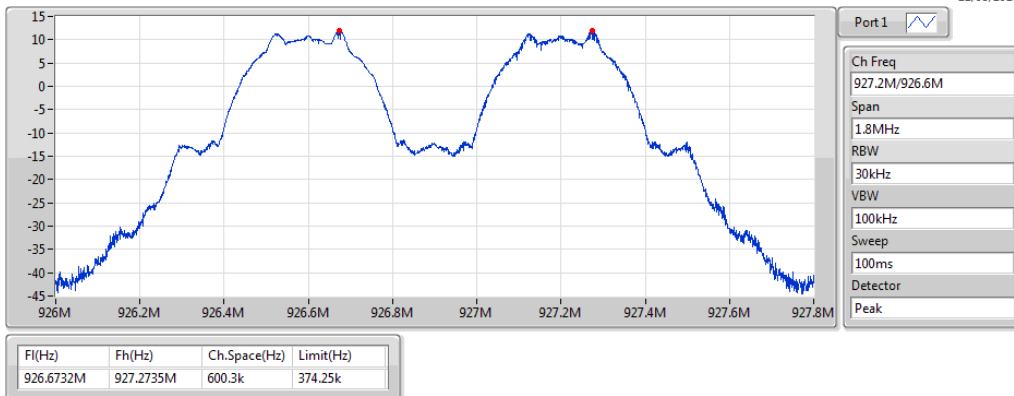


Wi-Sun-300_Nss1_1TX(Port1)

Channel Separation

927.2M/926.6MHz

22/05/2020

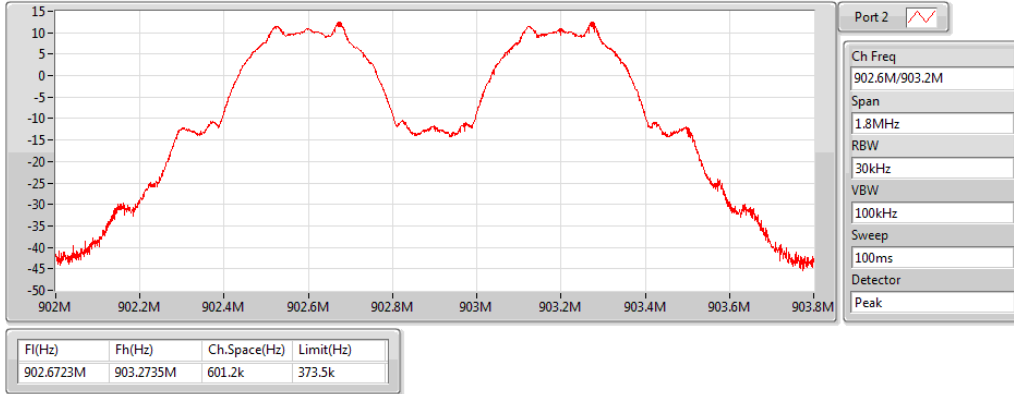


Wi-Sun-300_Nss1_1TX(Port2)

Channel Separation

902.6M/903.2MHz

22/05/2020

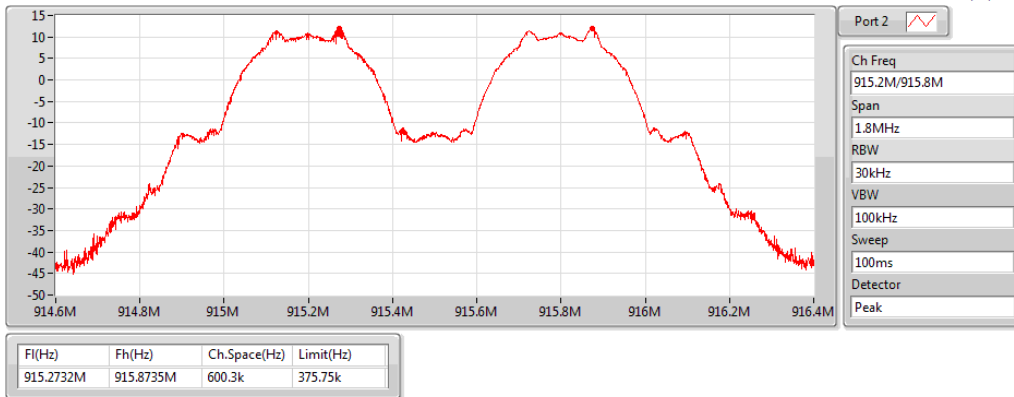


Wi-Sun-300_Nss1_1TX(Port2)

Channel Separation

915.2M/915.8MHz

22/05/2020

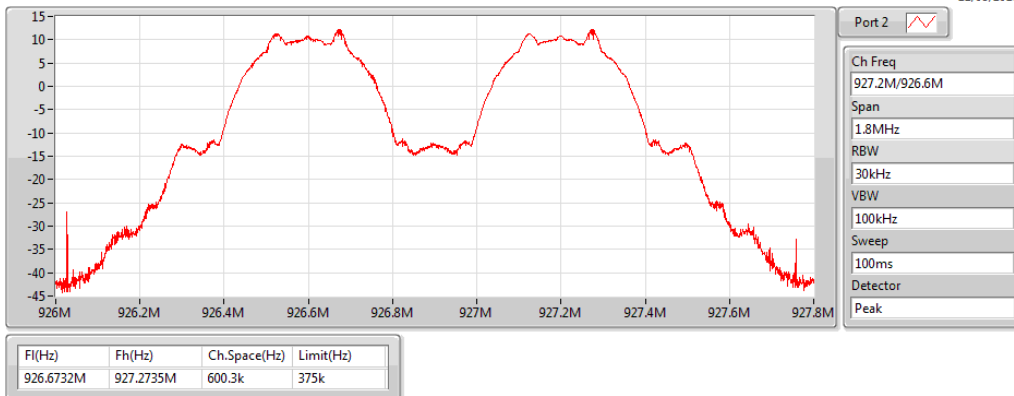


Wi-Sun-300_Nss1_1TX(Port2)

Channel Separation

927.2M/926.6MHz

22/05/2020

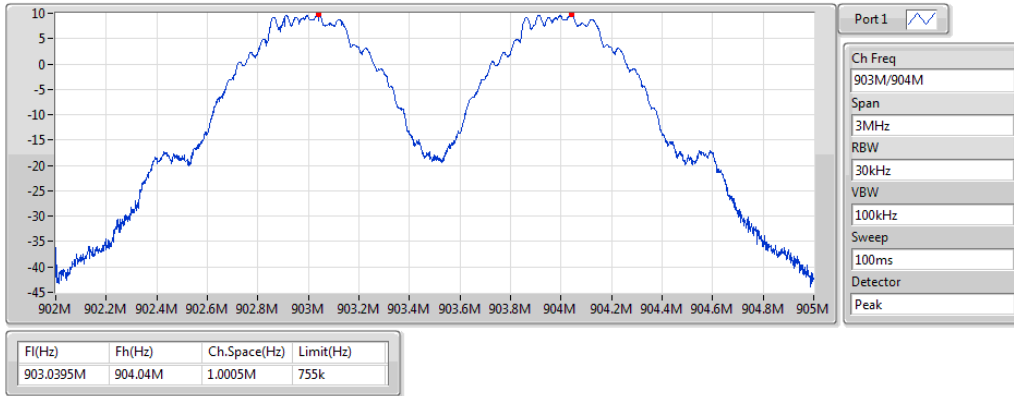


Wi-Sun-600_Nss1_1TX(Port1)

Channel Separation

903M/904MHz

22/05/2020

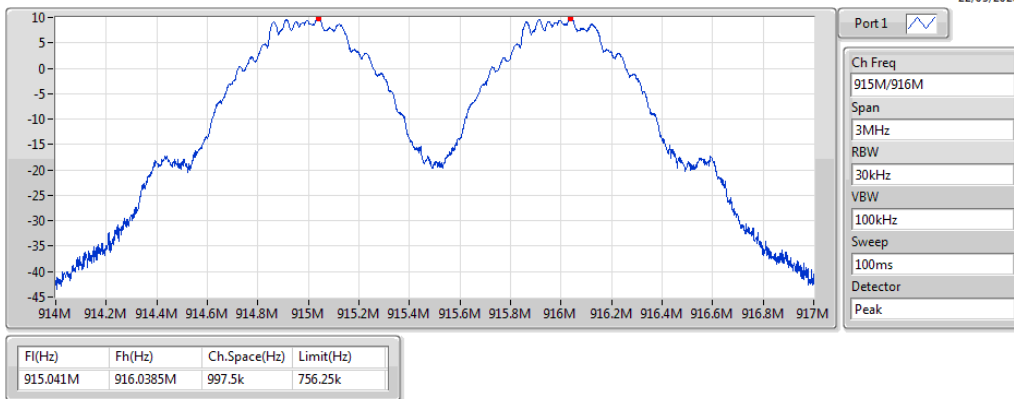


Wi-Sun-600_Nss1_1TX(Port1)

Channel Separation

915M/916MHz

22/05/2020

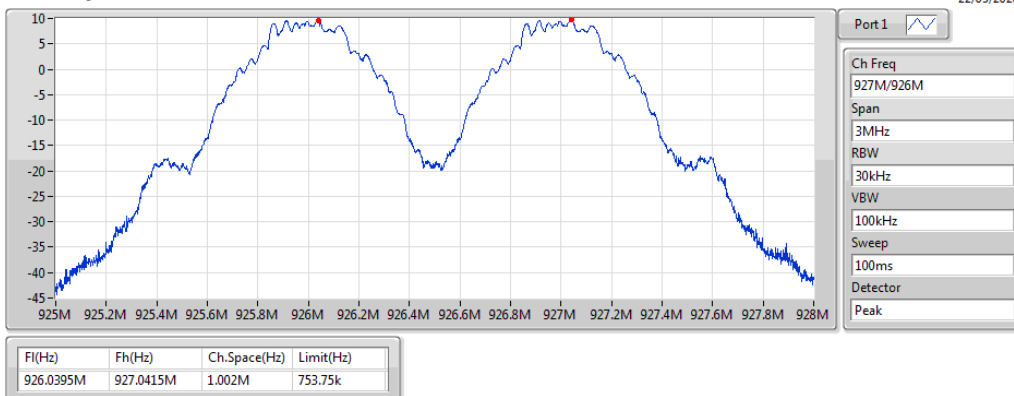


Wi-Sun-600_Nss1_1TX(Port1)

Channel Separation

927M/926MHz

22/05/2020

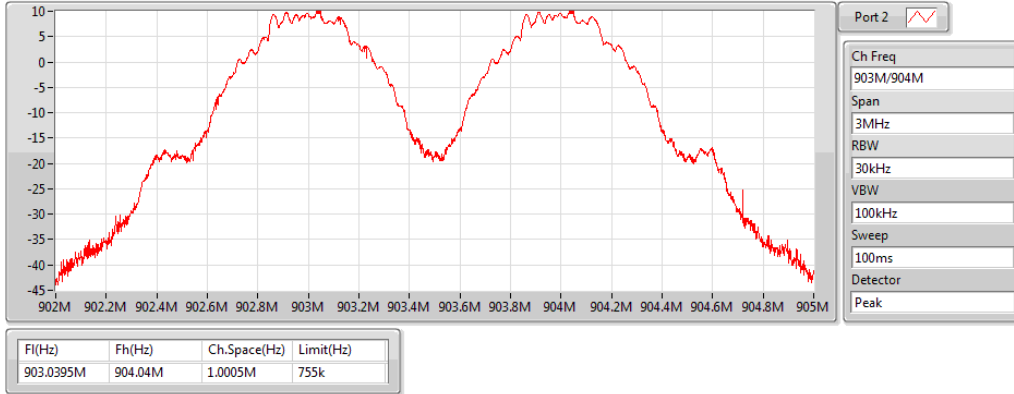


Wi-Sun-600_Nss1_1TX(Port2)

Channel Separation

903M/904MHz

22/05/2020

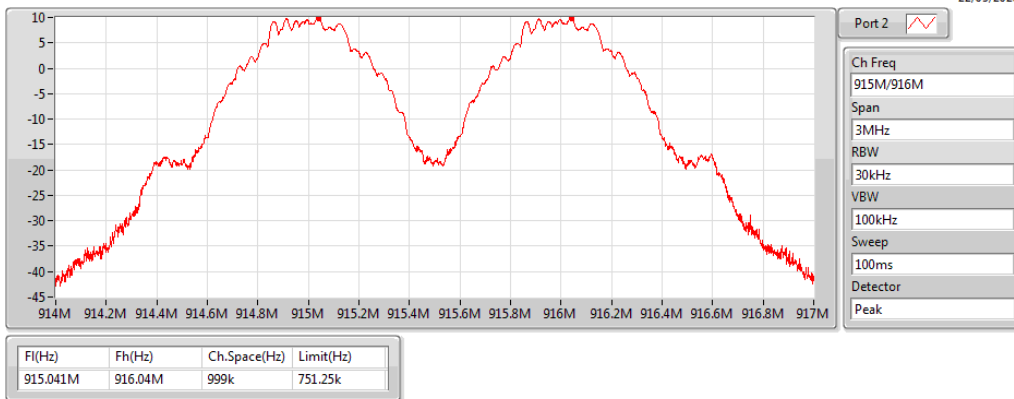


Wi-Sun-600_Nss1_1TX(Port2)

Channel Separation

915M/916MHz

22/05/2020

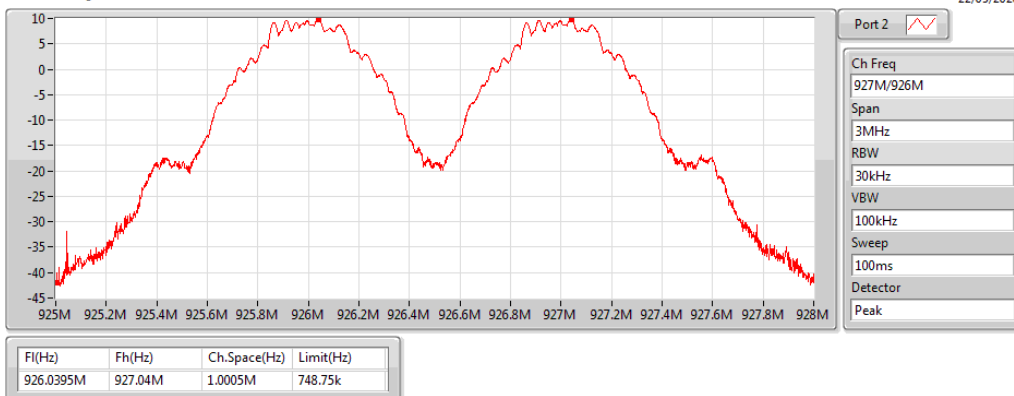


Wi-Sun-600_Nss1_1TX(Port2)

Channel Separation

927M/926MHz

22/05/2020



Summary

Mode	Power (dBm)	Power (W)
902-928MHz	-	-
Wi-Sun-50_Nss1_1TX(Port1)	13.05	0.02018
Wi-Sun-50_Nss1_1TX(Port2)	13.05	0.02018
Wi-Sun-150_Nss1_1TX(Port1)	13.04	0.02014
Wi-Sun-150_Nss1_1TX(Port2)	13.06	0.02023
Wi-Sun-300_Nss1_1TX(Port1)	13.06	0.02023
Wi-Sun-300_Nss1_1TX(Port2)	13.07	0.02028
Wi-Sun-600_Nss1_1TX(Port1)	13.06	0.02023
Wi-Sun-600_Nss1_1TX(Port2)	13.10	0.02042

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
Wi-Sun-50_Nss1_1TX(Port1)	-	-	-	-
902.2MHz	Pass	3.00	13.05	30.00
915.0MHz	Pass	3.00	12.90	30.00
927.8MHz	Pass	3.00	12.80	30.00
Wi-Sun-50_Nss1_1TX(Port2)	-	-	-	-
902.2MHz	Pass	3.00	13.05	30.00
915.0MHz	Pass	3.00	12.96	30.00
927.8MHz	Pass	3.00	12.86	30.00
Wi-Sun-150_Nss1_1TX(Port1)	-	-	-	-
902.4MHz	Pass	3.00	13.04	30.00
915.2MHz	Pass	3.00	12.90	30.00
927.6MHz	Pass	3.00	12.82	30.00
Wi-Sun-150_Nss1_1TX(Port2)	-	-	-	-
902.4MHz	Pass	3.00	13.06	30.00
915.2MHz	Pass	3.00	12.93	30.00
927.6MHz	Pass	3.00	12.83	30.00
Wi-Sun-300_Nss1_1TX(Port1)	-	-	-	-
902.6MHz	Pass	3.00	13.06	24.00
915.2MHz	Pass	3.00	12.95	24.00
927.2MHz	Pass	3.00	12.85	24.00
Wi-Sun-300_Nss1_1TX(Port2)	-	-	-	-
902.6MHz	Pass	3.00	13.07	24.00
915.2MHz	Pass	3.00	12.93	24.00
927.2MHz	Pass	3.00	12.85	24.00
Wi-Sun-600_Nss1_1TX(Port1)	-	-	-	-
903.0MHz	Pass	3.00	13.06	30.00
915.0MHz	Pass	3.00	12.98	30.00
927.0MHz	Pass	3.00	12.87	30.00
Wi-Sun-600_Nss1_1TX(Port2)	-	-	-	-
903.0MHz	Pass	3.00	13.10	30.00
915.0MHz	Pass	3.00	12.98	30.00
927.0MHz	Pass	3.00	12.90	30.00

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

Summary

Mode	Power (dBm)	Power (W)
902-928MHz	-	-
Wi-Sun-50_Nss1_1TX(Port1)	12.82	0.01914
Wi-Sun-50_Nss1_1TX(Port2)	12.98	0.01986
Wi-Sun-150_Nss1_1TX(Port1)	12.81	0.01910
Wi-Sun-150_Nss1_1TX(Port2)	12.97	0.01982
Wi-Sun-300_Nss1_1TX(Port1)	12.85	0.01928
Wi-Sun-300_Nss1_1TX(Port2)	12.98	0.01986
Wi-Sun-600_Nss1_1TX(Port1)	12.98	0.01986
Wi-Sun-600_Nss1_1TX(Port2)	13.01	0.02000

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
Wi-Sun-50_Nss1_1TX(Port1)	-	-	-	-
902.2MHz	Pass	3.00	12.69	30.00
915.0MHz	Pass	3.00	12.82	30.00
927.8MHz	Pass	3.00	12.71	30.00
Wi-Sun-50_Nss1_1TX(Port2)	-	-	-	-
902.2MHz	Pass	3.00	12.98	30.00
915.0MHz	Pass	3.00	12.83	30.00
927.8MHz	Pass	3.00	12.76	30.00
Wi-Sun-150_Nss1_1TX(Port1)	-	-	-	-
902.4MHz	Pass	3.00	12.72	30.00
915.2MHz	Pass	3.00	12.81	30.00
927.6MHz	Pass	3.00	12.72	30.00
Wi-Sun-150_Nss1_1TX(Port2)	-	-	-	-
902.4MHz	Pass	3.00	12.97	30.00
915.2MHz	Pass	3.00	12.84	30.00
927.6MHz	Pass	3.00	12.74	30.00
Wi-Sun-300_Nss1_1TX(Port1)	-	-	-	-
902.6MHz	Pass	3.00	12.72	24.00
915.2MHz	Pass	3.00	12.85	24.00
927.2MHz	Pass	3.00	12.77	24.00
Wi-Sun-300_Nss1_1TX(Port2)	-	-	-	-
902.6MHz	Pass	3.00	12.98	24.00
915.2MHz	Pass	3.00	12.84	24.00
927.2MHz	Pass	3.00	12.73	24.00
Wi-Sun-600_Nss1_1TX(Port1)	-	-	-	-
903.0MHz	Pass	3.00	12.98	30.00
915.0MHz	Pass	3.00	12.87	30.00
927.0MHz	Pass	3.00	12.56	30.00
Wi-Sun-600_Nss1_1TX(Port2)	-	-	-	-
903.0MHz	Pass	3.00	13.01	30.00
915.0MHz	Pass	3.00	12.91	30.00
927.0MHz	Pass	3.00	12.81	30.00

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



Summary

Mode	PD (dBm/RBW)
902-928MHz	-
Wi-Sun-600_Nss1_1TX(Port1)	1.65
Wi-Sun-600_Nss1_1TX(Port2)	1.97

RBW=3 kHz.

Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
Wi-Sun-600_Nss1_1TX(Port1)	-	-	-	-
903.0MHz	Pass	3.00	1.00	8.00
915.0MHz	Pass	3.00	1.12	8.00
927.0MHz	Pass	3.00	1.65	8.00
Wi-Sun-600_Nss1_1TX(Port2)	-	-	-	-
903.0MHz	Pass	3.00	1.97	8.00
915.0MHz	Pass	3.00	1.90	8.00
927.0MHz	Pass	3.00	1.87	8.00

DG = Directional Gain; RBW=3 kHz;

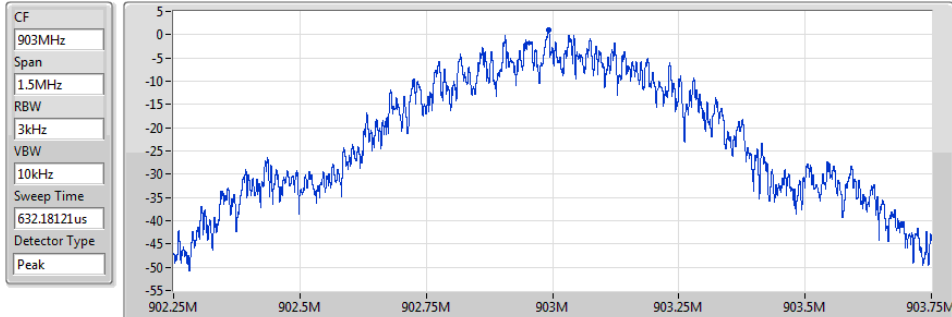
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

Wi-Sun-600_Nss1_1TX(Port1)

PSD

903.0MHz

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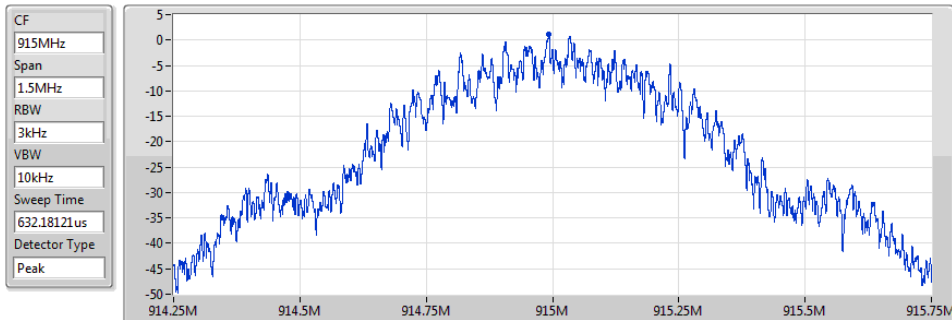
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.00	1.00	1.00

Wi-Sun-600_Nss1_1TX(Port1)

PSD

915.0MHz

22/05/2020



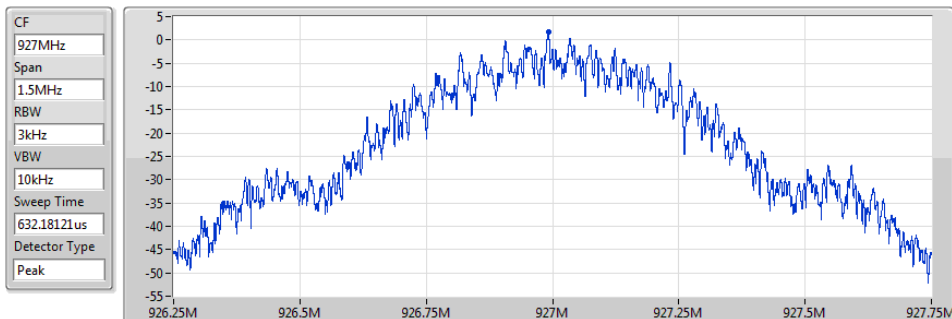
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.12	1.12	1.12

Wi-Sun-600_Nss1_1TX(Port1)

PSD

927.0MHz

22/05/2020



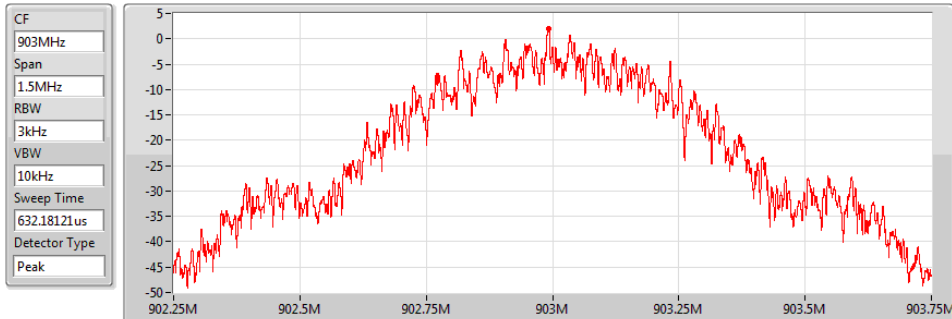
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.65	1.65	1.65

Wi-Sun-600_Nss1_1TX(Port2)

PSD

903.0MHz

22/05/2020



Port 2

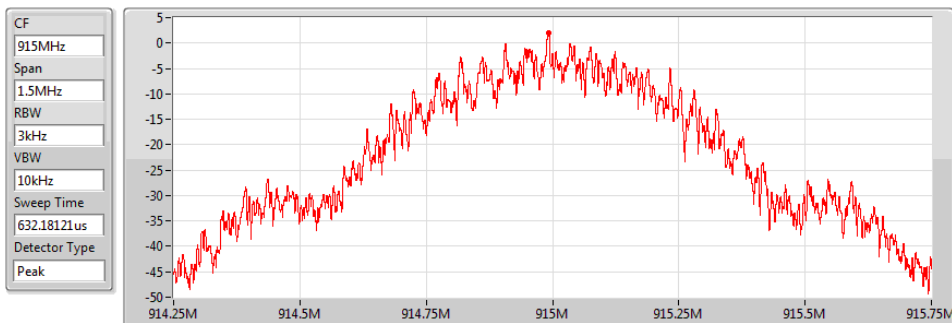
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.97	1.97	-	1.97

Wi-Sun-600_Nss1_1TX(Port2)

PSD

915.0MHz

22/05/2020



Port 2

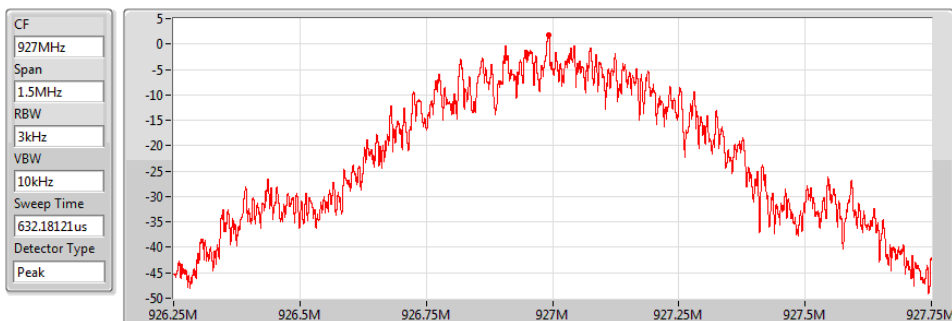
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.90	1.90	-	1.90

Wi-Sun-600_Nss1_1TX(Port2)

PSD

927.0MHz

22/05/2020



Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.87	1.87	-	1.87



Summary

Mode	Max-Hop No
902-928MHz	-
Wi-Sun-50_Nss1_1TX(Port1)	129
Wi-Sun-50_Nss1_1TX(Port2)	129
Wi-Sun-150_Nss1_1TX(Port1)	64
Wi-Sun-150_Nss1_1TX(Port2)	64
Wi-Sun-300_Nss1_1TX(Port1)	42
Wi-Sun-300_Nss1_1TX(Port2)	42
Wi-Sun-600_Nss1_1TX(Port1)	25
Wi-Sun-600_Nss1_1TX(Port2)	25

Result

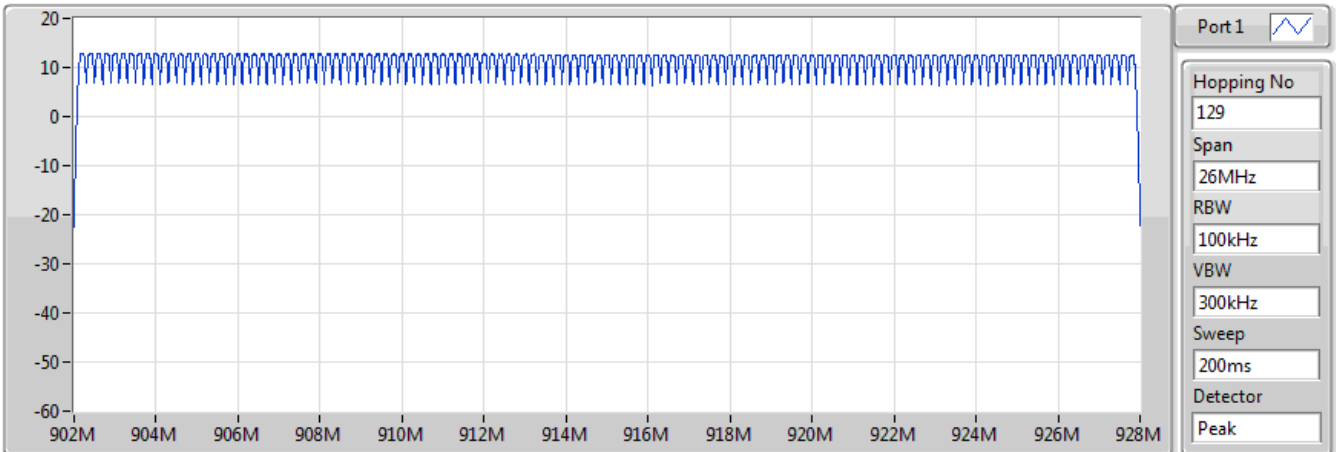
Mode	Result	Hopping No	Limit
Wi-Sun-50_Nss1_1TX(Port1)	-	-	-
915.0MHz	Pass	129	50
Wi-Sun-50_Nss1_1TX(Port2)	-	-	-
915.0MHz	Pass	129	50
Wi-Sun-150_Nss1_1TX(Port1)	-	-	-
915.2MHz	Pass	64	50
Wi-Sun-150_Nss1_1TX(Port2)	-	-	-
915.2MHz	Pass	64	50
Wi-Sun-300_Nss1_1TX(Port1)	-	-	-
915.2MHz	Pass	42	25
Wi-Sun-300_Nss1_1TX(Port2)	-	-	-
915.2MHz	Pass	42	25
Wi-Sun-600_Nss1_1TX(Port1)	-	-	-
915.0MHz	Pass	25	Inf
Wi-Sun-600_Nss1_1TX(Port2)	-	-	-
915.0MHz	Pass	25	Inf

Wi-Sun-50_Nss1_1TX(Port1)

Hopping Ch

915.0MHz

22/05/2020



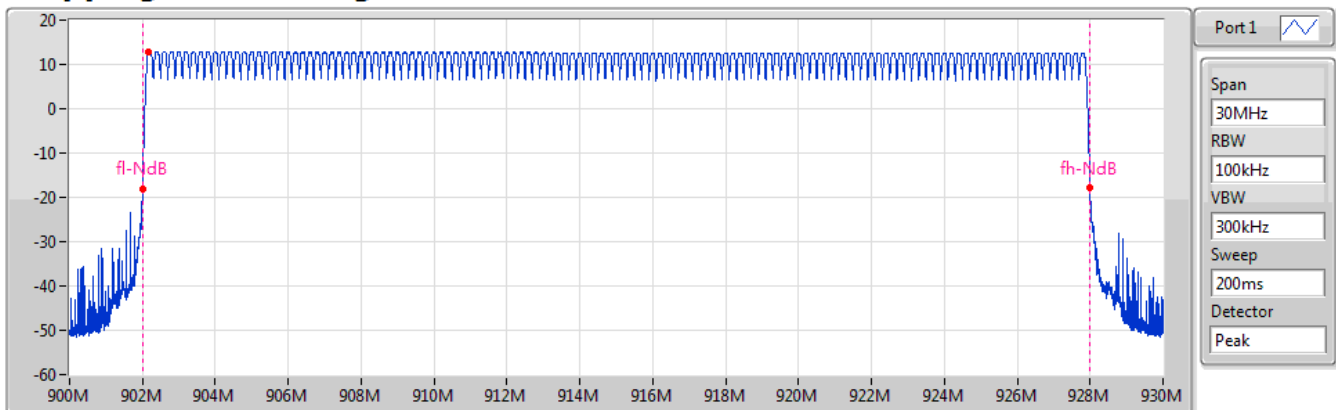
Hopping No	Limit
129	50

Wi-Sun-50_Nss1_1TX(Port1)

915.0MHz

Hopping Ch Bandedge (Non-restricted Band)

22/05/2020



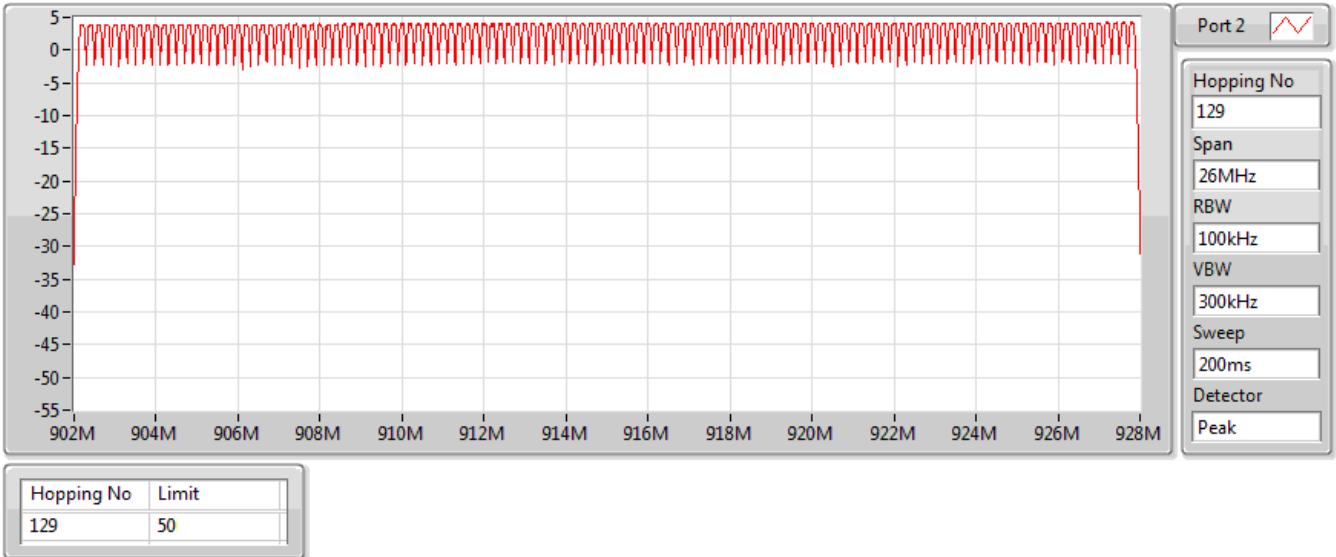
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-7.25	902.17125M	12.75	901.99875M	-18.08	928.00125M	-17.95

Wi-Sun-50_Nss1_1TX(Port2)

Hopping Ch

915.0MHz

26/05/2020

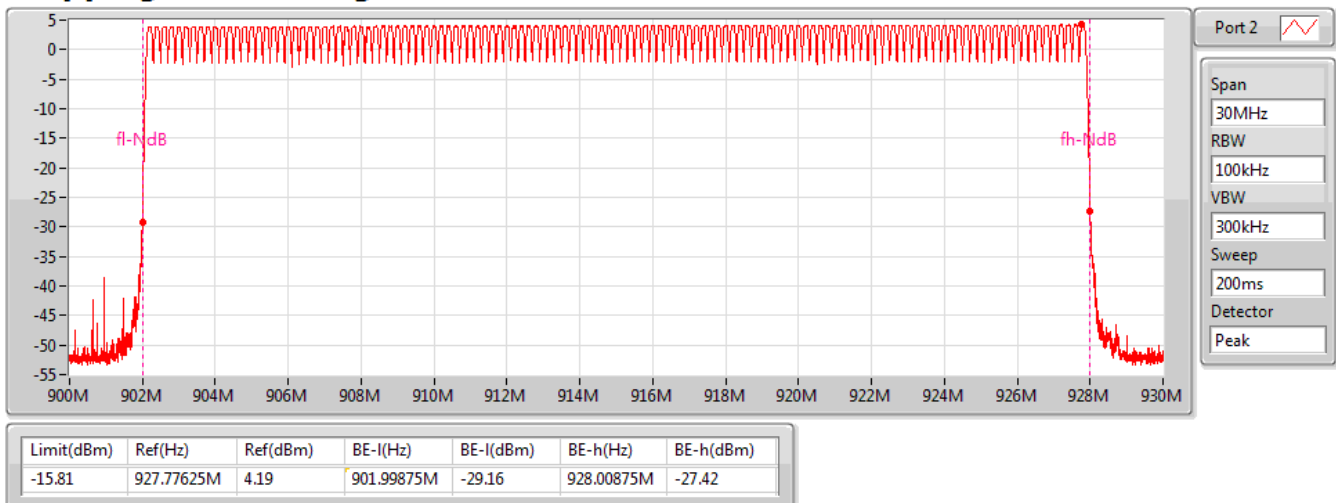


Wi-Sun-50_Nss1_1TX(Port2)

915.0MHz

Hopping Ch Bandedge (Non-restricted Band)

26/05/2020

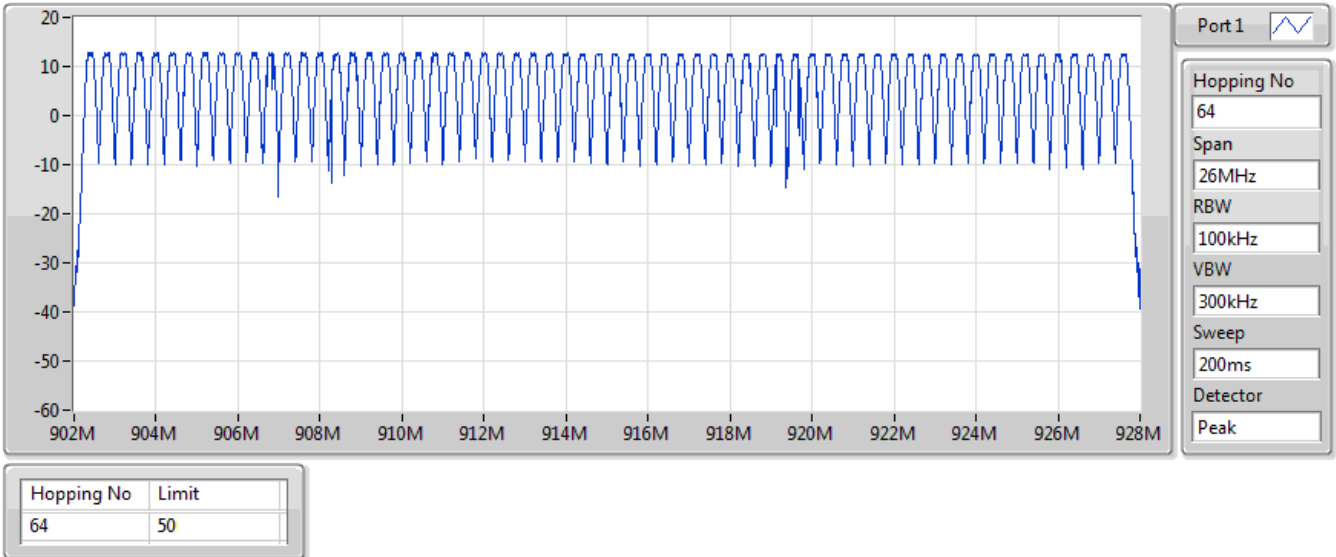


Wi-Sun-150_Nss1_1TX(Port1)

Hopping Ch

915.2MHz

22/05/2020

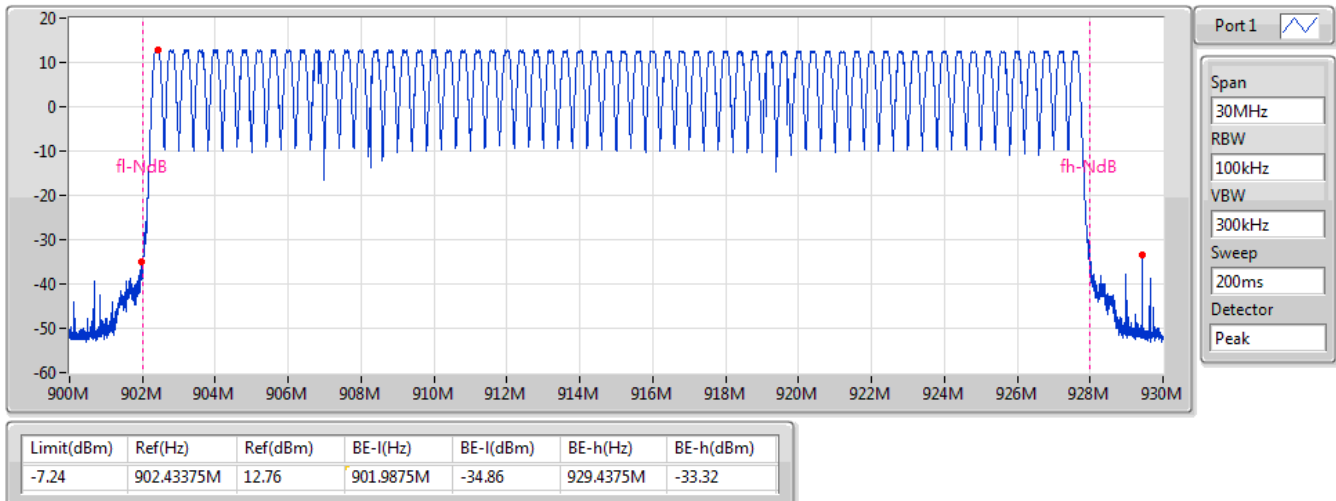


Wi-Sun-150_Nss1_1TX(Port1)

915.2MHz

Hopping Ch Bandedge (Non-restricted Band)

22/05/2020

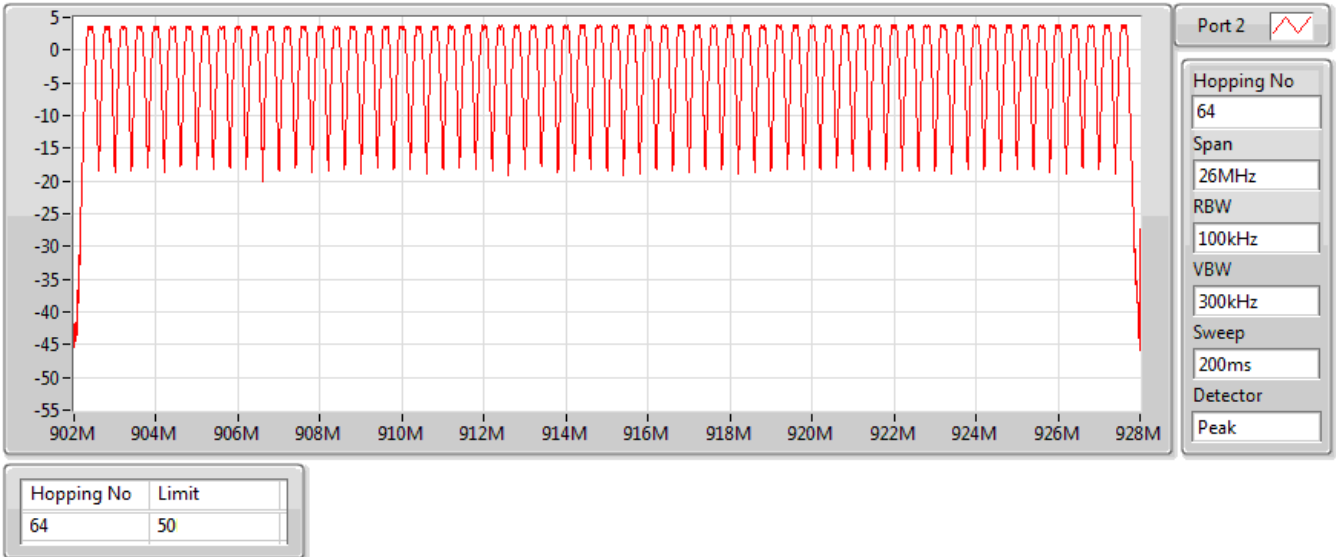


Wi-Sun-150_Nss1_1TX(Port2)

Hopping Ch

915.2MHz

26/05/2020

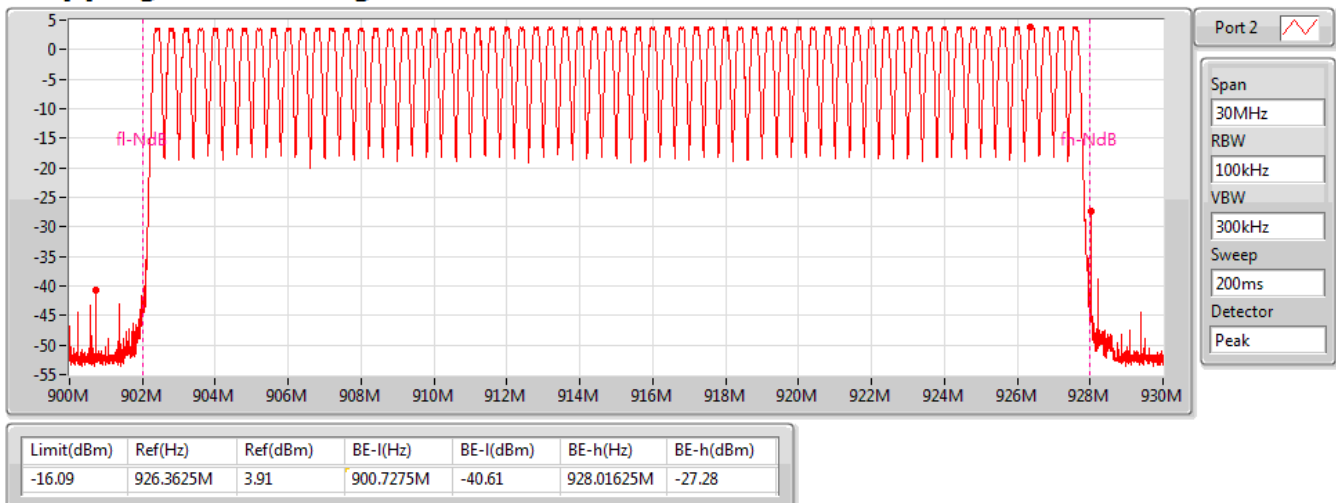


Wi-Sun-150_Nss1_1TX(Port2)

915.2MHz

Hopping Ch Bandedge (Non-restricted Band)

26/05/2020

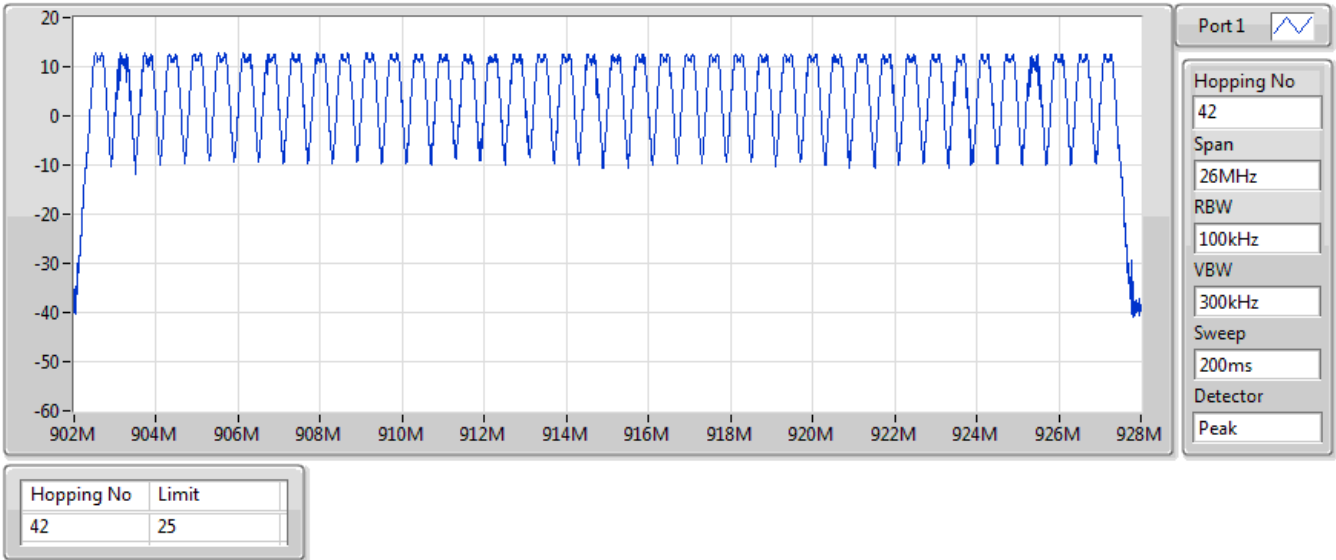


Wi-Sun-300_Nss1_1TX(Port1)

Hopping Ch

915.2MHz

22/05/2020

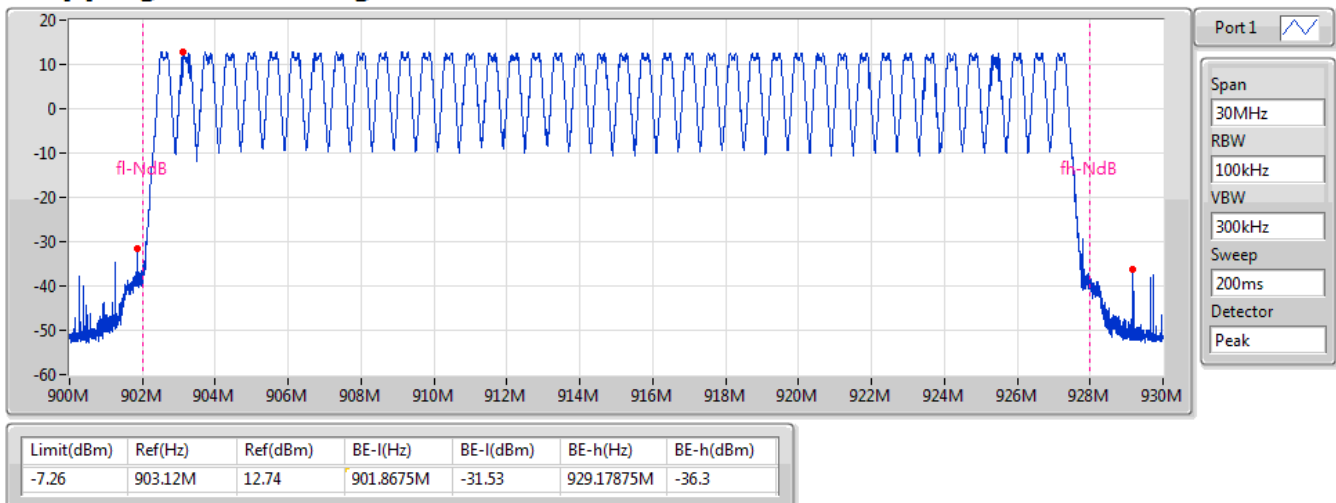


Wi-Sun-300_Nss1_1TX(Port1)

915.2MHz

Hopping Ch Bandedge (Non-restricted Band)

22/05/2020

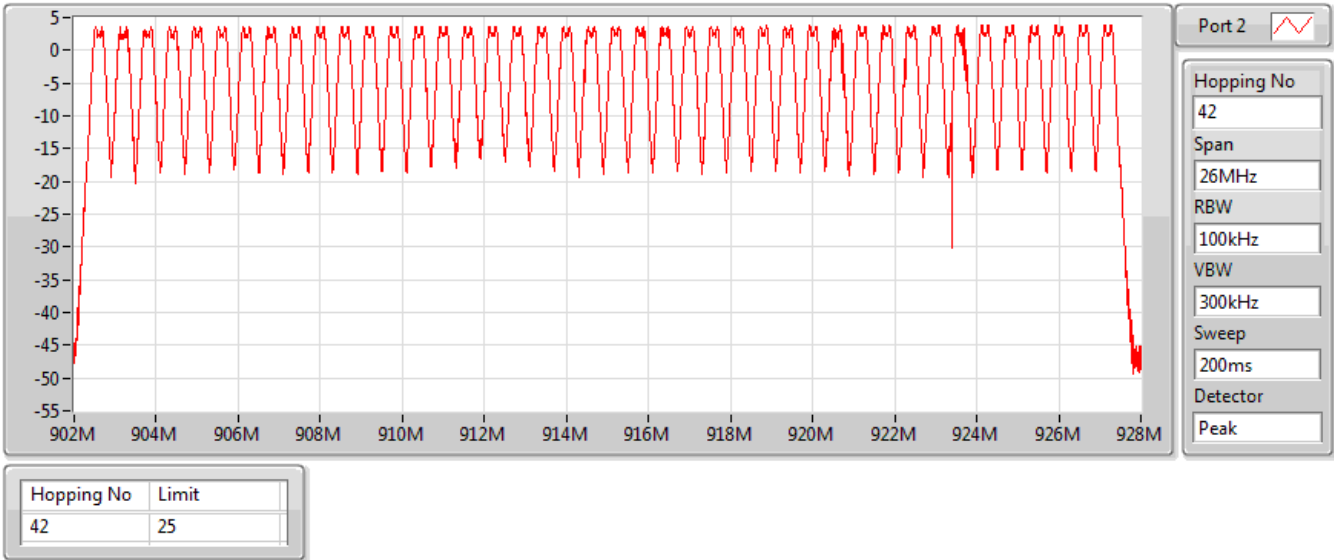


Wi-Sun-300_Nss1_1TX(Port2)

Hopping Ch

915.2MHz

26/05/2020

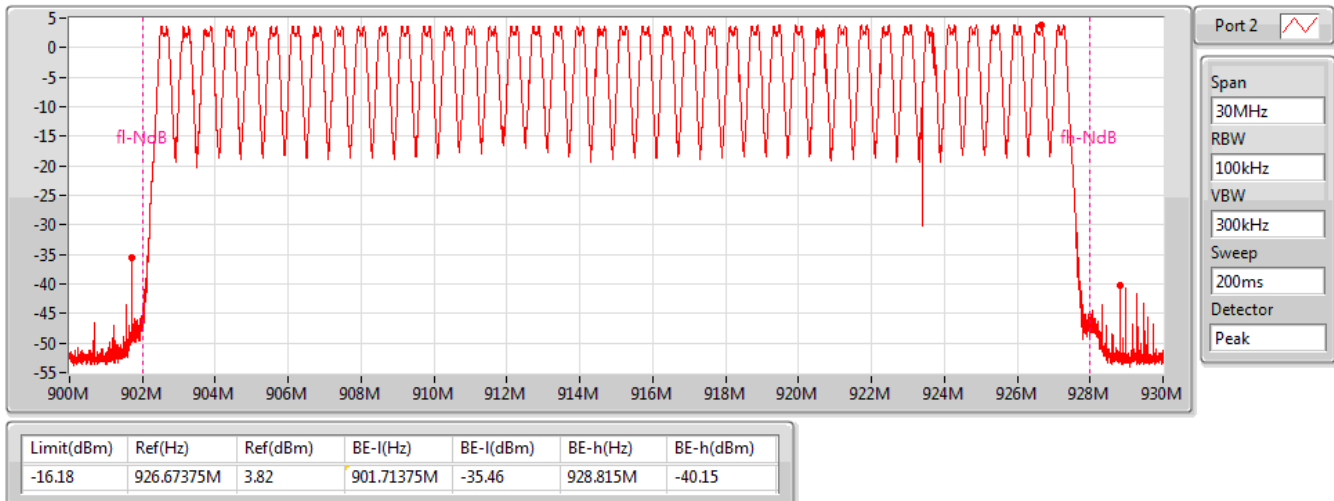


Wi-Sun-300_Nss1_1TX(Port2)

915.2MHz

Hopping Ch Bandedge (Non-restricted Band)

26/05/2020

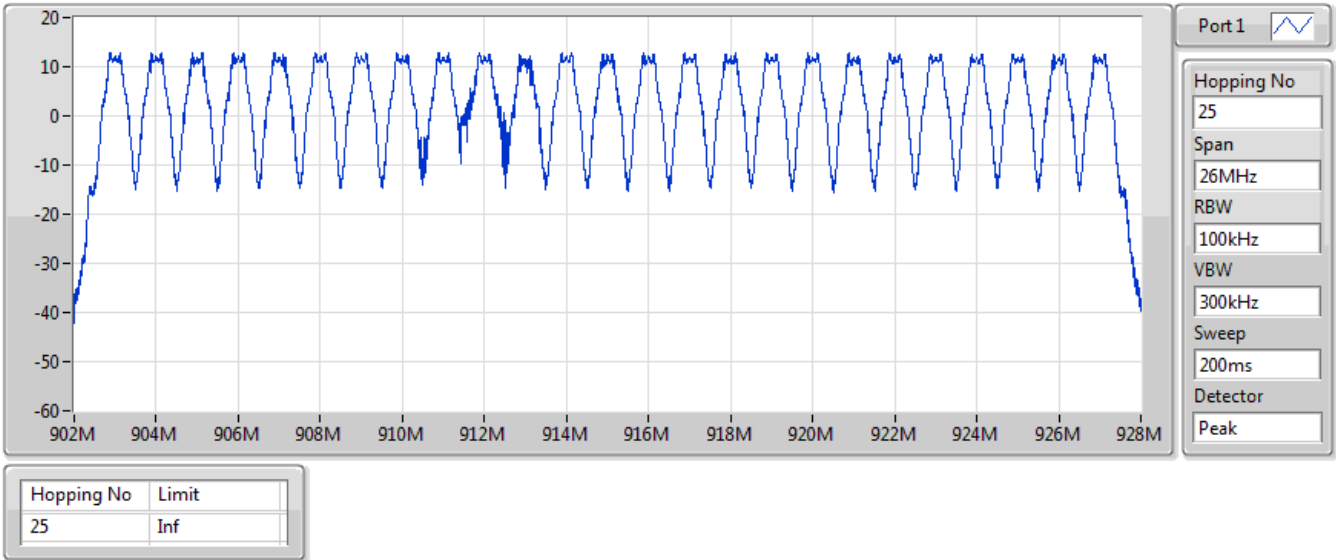


Wi-Sun-600_Nss1_1TX(Port1)

Hopping Ch

915.0MHz

22/05/2020

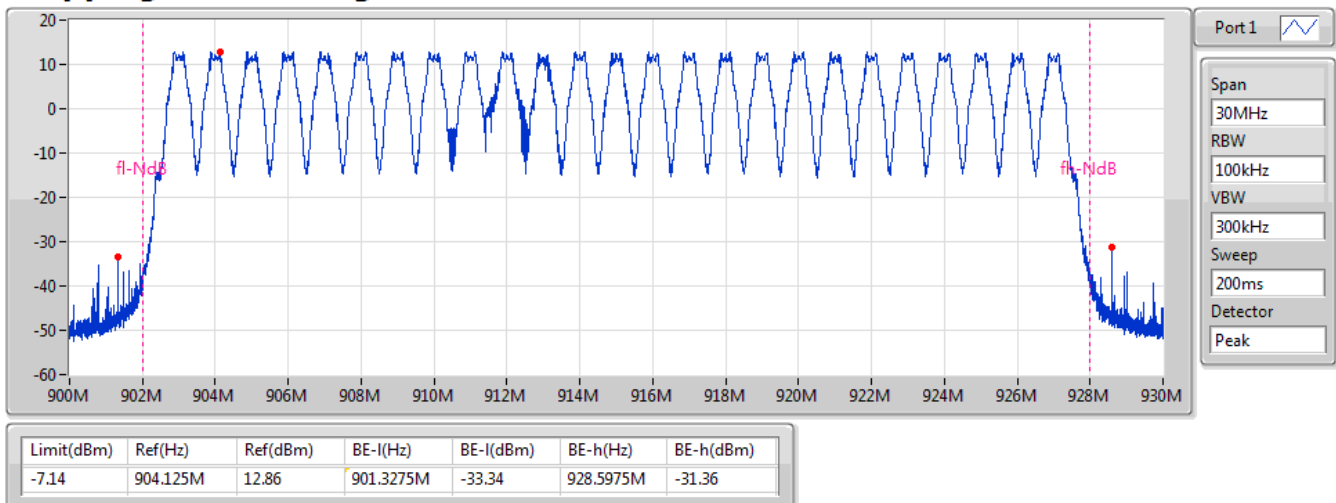


Wi-Sun-600_Nss1_1TX(Port1)

915.0MHz

Hopping Ch Bandedge (Non-restricted Band)

22/05/2020

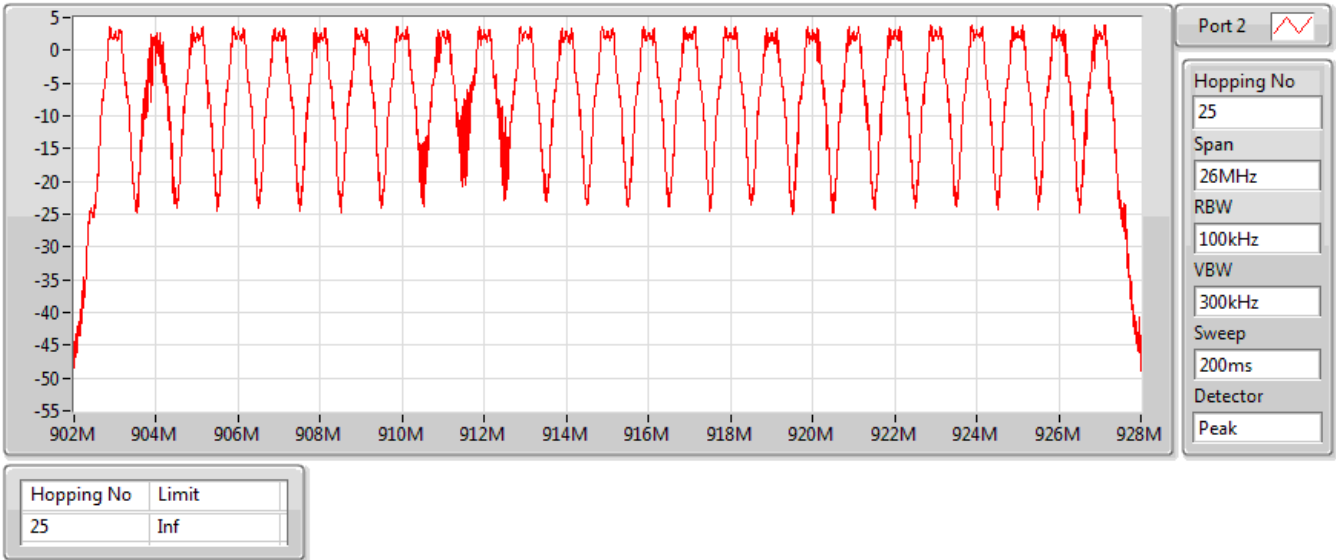


Wi-Sun-600_Nss1_1TX(Port2)

Hopping Ch

915.0MHz

26/05/2020

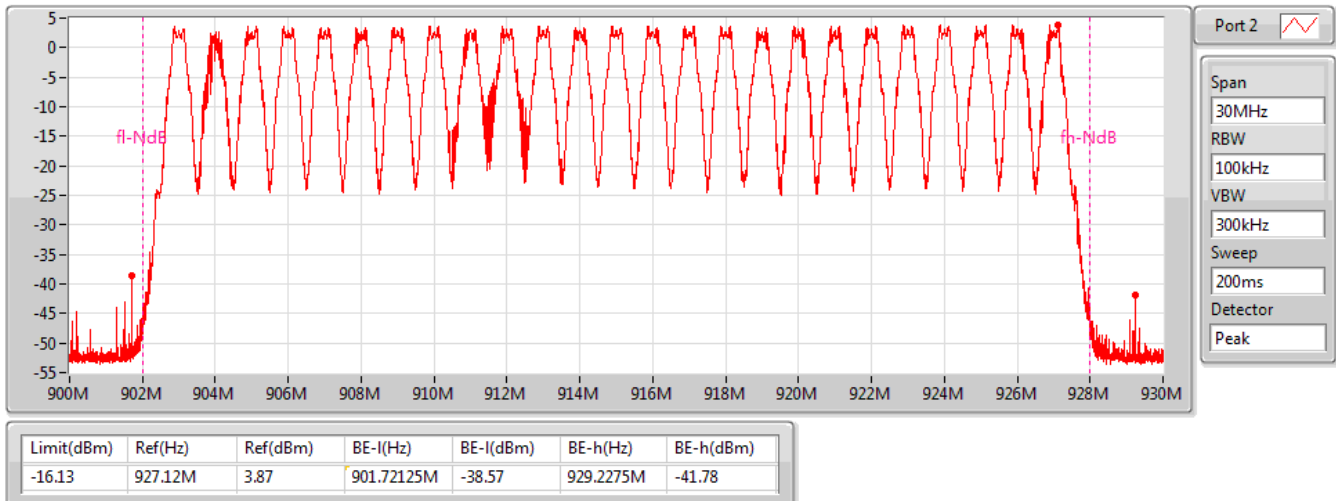


Wi-Sun-600_Nss1_1TX(Port2)

915.0MHz

Hopping Ch Bandedge (Non-restricted Band)

26/05/2020



Summary

Mode	Max-Dwell (s)
902-928MHz	-
Wi-Sun-50_Nss1_1TX(Port1)	153.299418m
Wi-Sun-50_Nss1_1TX(Port2)	153.306686m
Wi-Sun-150_Nss1_1TX(Port1)	275.34375m
Wi-Sun-150_Nss1_1TX(Port2)	275.34375m
Wi-Sun-300_Nss1_1TX(Port1)	138.5625m
Wi-Sun-300_Nss1_1TX(Port2)	138.5625m
Wi-Sun-600_Nss1_1TX(Port1)	140.375m
Wi-Sun-600_Nss1_1TX(Port2)	140.375m

Result

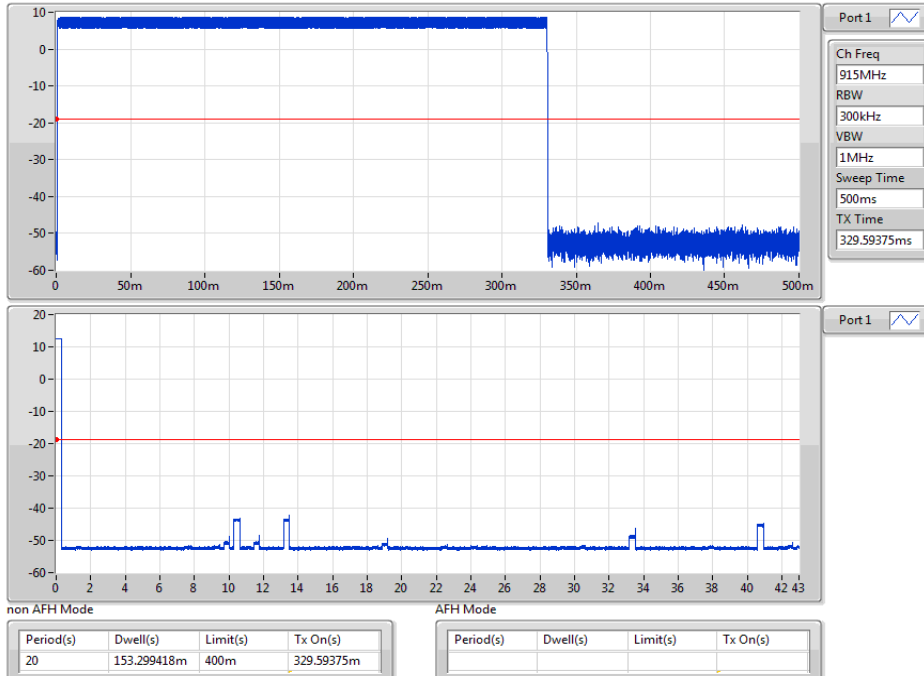
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
Wi-Sun-50_Nss1_1TX(Port1)	-	-	-	-	-
915.0MHz	Pass	20	153.299418m	400m	329.59375m
Wi-Sun-50_Nss1_1TX(Port2)	-	-	-	-	-
915.0MHz	Pass	20	153.306686m	400m	329.609375m
Wi-Sun-150_Nss1_1TX(Port1)	-	-	-	-	-
915.2MHz	Pass	20	275.34375m	400m	110.1375m
Wi-Sun-150_Nss1_1TX(Port2)	-	-	-	-	-
915.2MHz	Pass	20	275.34375m	400m	110.1375m
Wi-Sun-300_Nss1_1TX(Port1)	-	-	-	-	-
915.2MHz	Pass	10	138.5625m	400m	55.425m
Wi-Sun-300_Nss1_1TX(Port2)	-	-	-	-	-
915.2MHz	Pass	10	138.5625m	400m	55.425m
Wi-Sun-600_Nss1_1TX(Port1)	-	-	-	-	-
915.0MHz	Pass	10	140.375m	400m	28.075m
Wi-Sun-600_Nss1_1TX(Port2)	-	-	-	-	-
915.0MHz	Pass	10	140.375m	400m	28.075m

Wi-Sun-50_Nss1_1TX(Port1)

915.0MHz

Dwell

22/05/2020

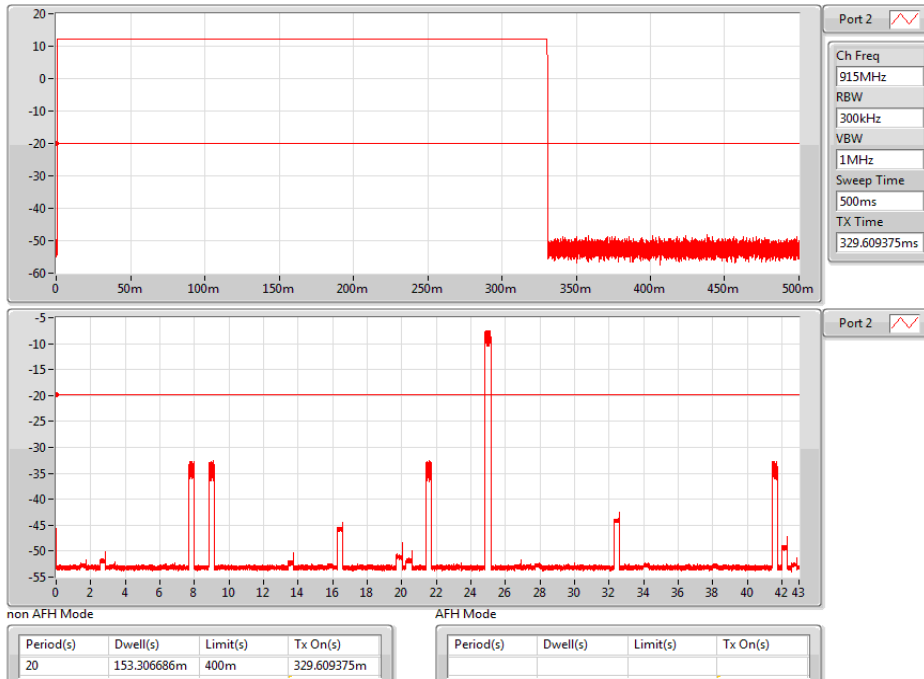


Wi-Sun-50_Nss1_1TX(Port2)

915.0MHz

Dwell

27/05/2020

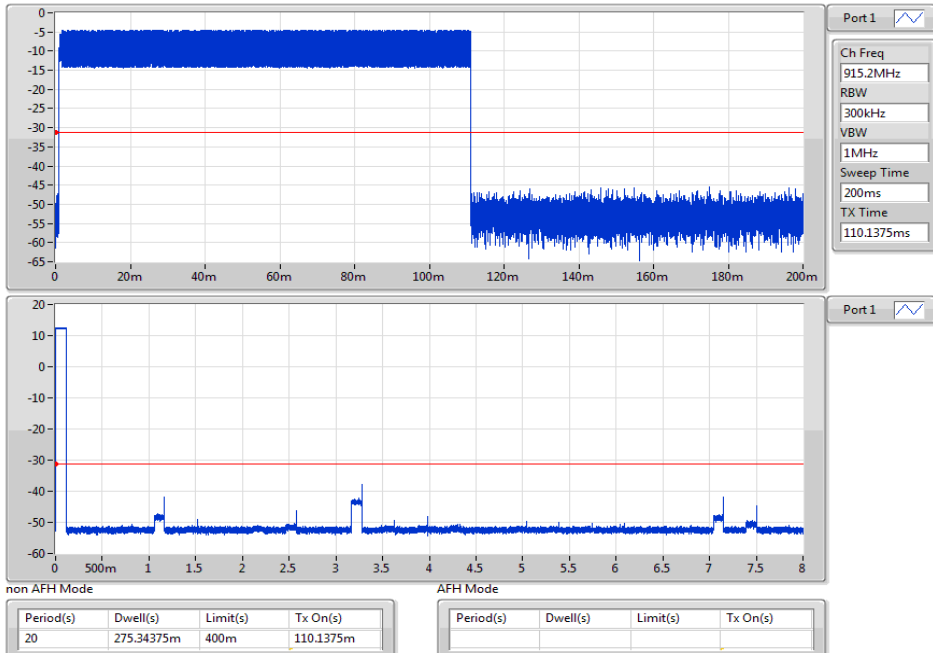


Wi-Sun-150_Nss1_1TX(Port1)

915.2MHz

Dwell

22/05/2020

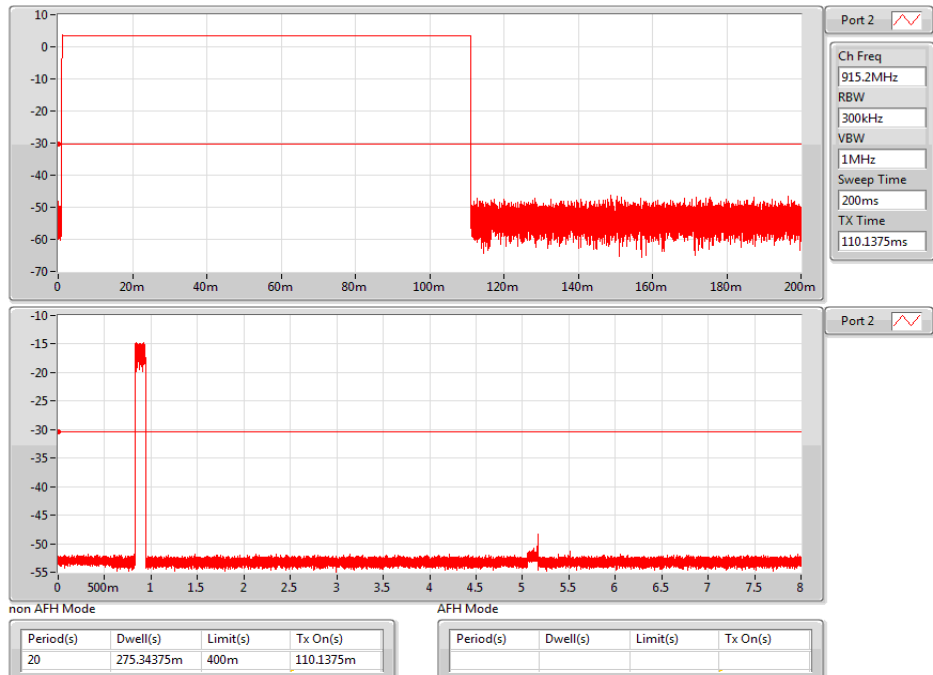


Wi-Sun-150_Nss1_1TX(Port2)

915.2MHz

Dwell

26/05/2020

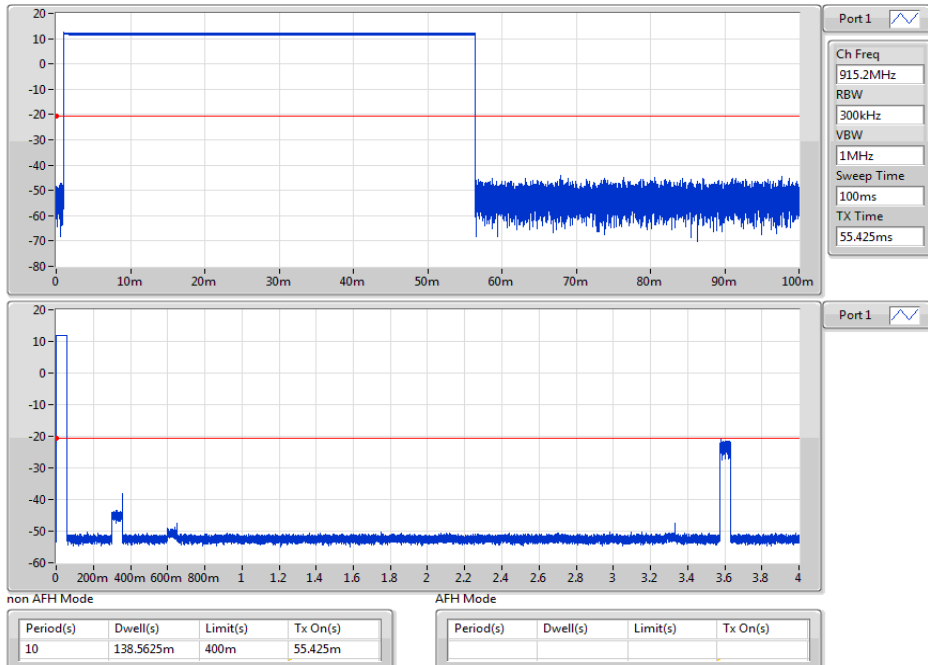


Wi-Sun-300_Nss1_1TX(Port1)

Dwell

915.2MHz

22/05/2020

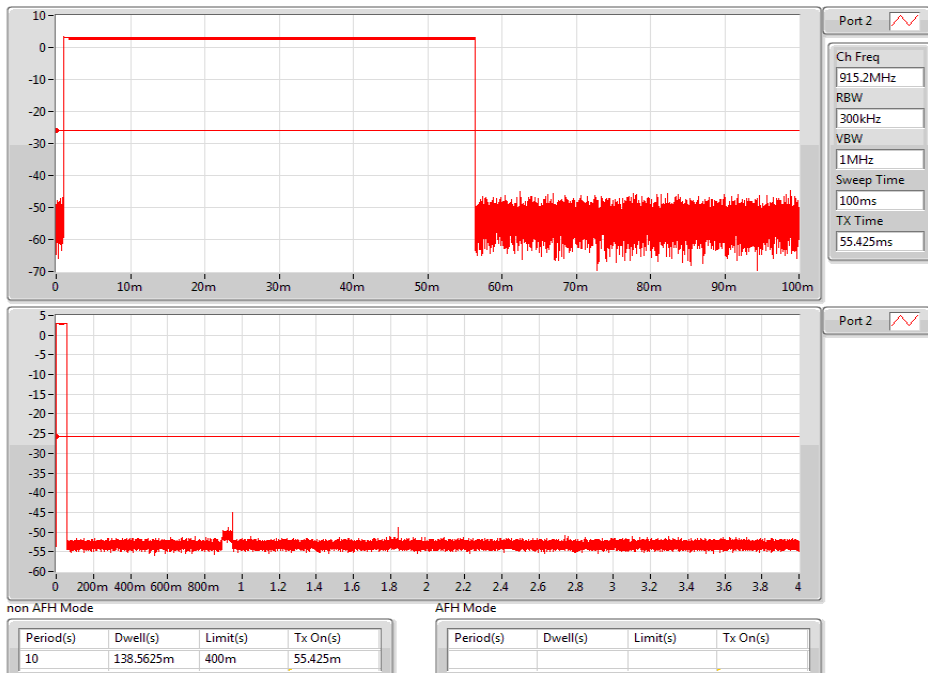


Wi-Sun-300_Nss1_1TX(Port2)

Dwell

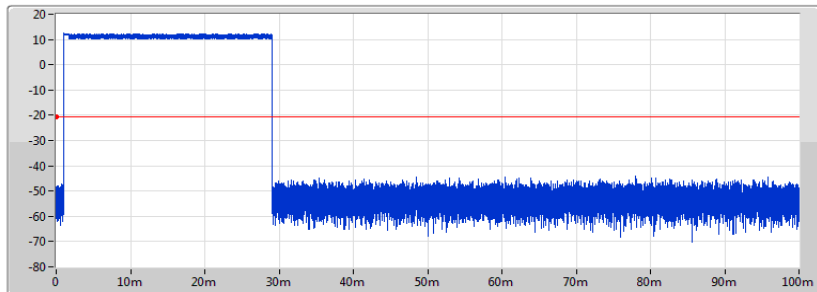
915.2MHz

26/05/2020



Wi-Sun-600_Nss1_1TX(Port1)

915.0MHz



Dwell

22/05/2020

Port 1 

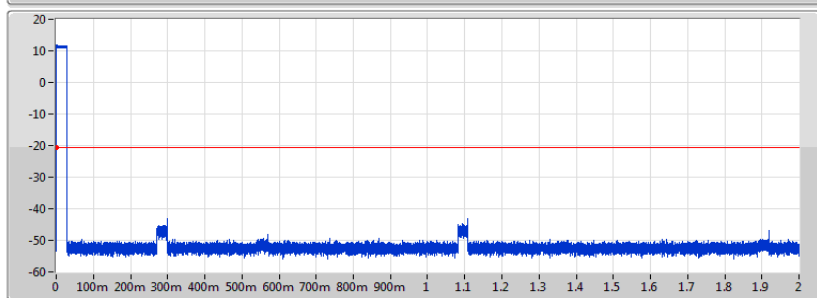
Ch Freq
915MHz

RBW
300kHz

VBW
1MHz

Sweep Time
100ms

TX Time
28.075ms



Port 1 

non AFH Mode

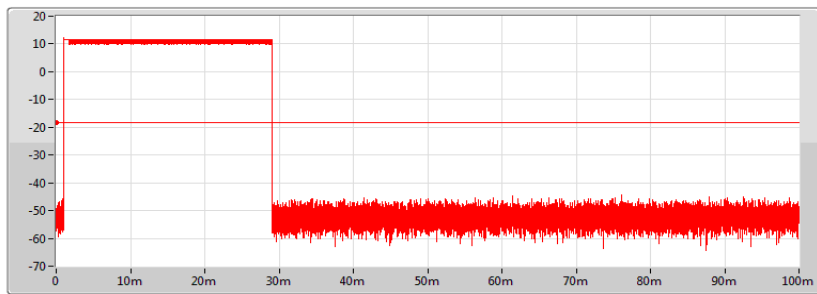
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
10	140.375m	400m	28.075m

AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)

Wi-Sun-600_Nss1_1TX(Port2)

915.0MHz



Dwell

27/05/2020

Port 2 

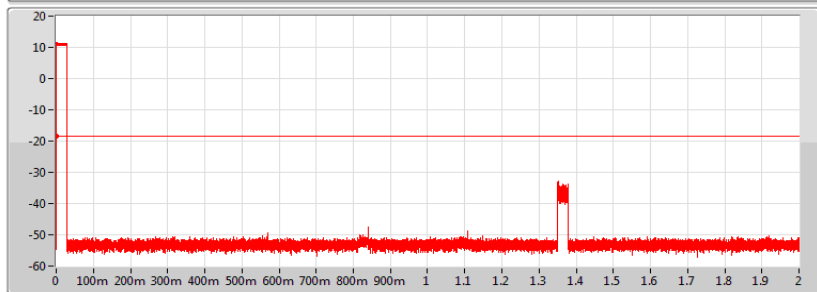
Ch Freq
915MHz

RBW
300kHz

VBW
1MHz

Sweep Time
100ms

TX Time
28.075ms



Port 2 

non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
10	140.375m	400m	28.075m

AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wi-Sun-50_Nss1_1TX(Port1)	Pass	902.17M	12.65	-7.35	663.57M	-56.99	902M	-21.13	902M	-15.66	941.66M	-56.14	1.80341G	-38.99	1
Wi-Sun-50_Nss1_1TX(Port2)	Pass	902.17M	12.71	-7.29	719.69M	-56.85	902M	-20.58	902M	-15.82	936.54M	-56.14	1.80341G	-38.54	2
Wi-Sun-150_Nss1_1TX(Port1)	Pass	902.35M	12.66	-7.34	712.35M	-57.35	901.97M	-34.20	902M	-33.11	940.74M	-56.30	1.80455G	-39.71	1
Wi-Sun-150_Nss1_1TX(Port2)	Pass	927.56M	12.46	-7.54	368.56M	-56.62	892.67M	-56.38	928M	-32.69	928M	-34.26	1.85433G	-42.87	2
Wi-Sun-300_Nss1_1TX(Port1)	Pass	927.13M	12.49	-7.51	690.83M	-57.35	894.85M	-56.22	928M	-38.09	928.01M	-36.31	8.98052G	-45.01	1
Wi-Sun-300_Nss1_1TX(Port2)	Pass	902.52M	12.65	-7.35	816.08M	-56.99	901.92M	-36.10	902M	-39.66	929.22M	-55.91	1.80455G	-38.95	2
Wi-Sun-600_Nss1_1TX(Port1)	Pass	927.12M	12.49	-7.51	878.49M	-56.78	899.93M	-56.31	928M	-35.29	928.02M	-35.48	9.24982G	-46.06	1
Wi-Sun-600_Nss1_1TX(Port2)	Pass	927.13M	12.62	-7.38	782.96M	-56.69	884.41M	-55.87	928M	-36.00	928.04M	-36.00	1.8532G	-44.13	2

Result

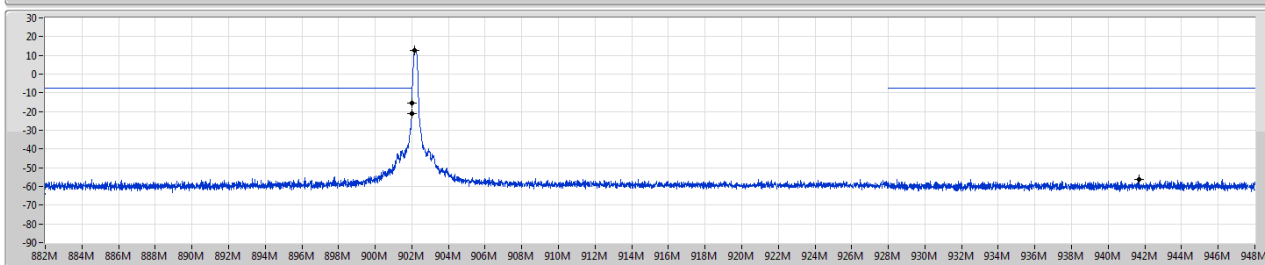
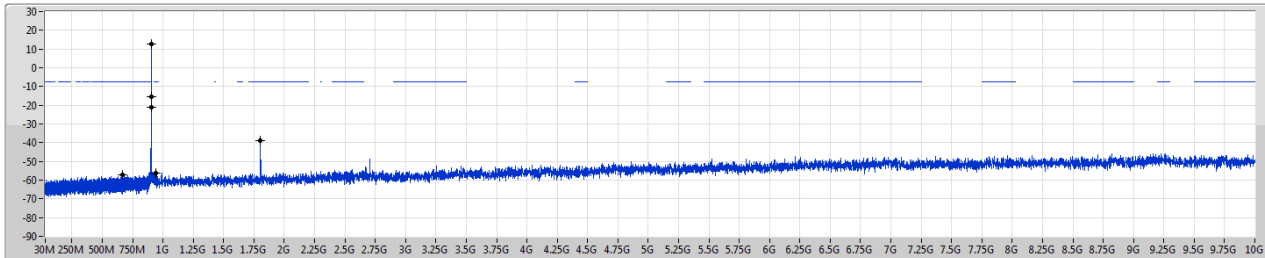
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
Wi-Sun-50_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
902.2MHz	Pass	902.17M	12.65	-7.35	663.57M	-56.99	902M	-21.13	902M	-15.66	941.66M	-56.14	1.80341G	-38.99	1
915.0MHz	Pass	914.97M	12.53	-7.47	816.29M	-56.99	893.98M	-56.17	928M	-57.26	932.13M	-56.38	1.82944G	-42.40	1
927.8MHz	Pass	927.78M	12.45	-7.55	831.09M	-56.26	892.51M	-56.13	928M	-16.67	928M	-21.20	1.85546G	-43.25	1
Wi-Sun-50_Nss1_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
902.2MHz	Pass	902.17M	12.71	-7.29	719.69M	-56.85	902M	-20.58	902M	-15.82	936.54M	-56.14	1.80341G	-38.54	2
915.0MHz	Pass	914.97M	12.59	-7.41	591.15M	-57.46	892.16M	-56.13	902M	-59.90	943.3M	-54.96	1.82944G	-42.28	2
927.8MHz	Pass	927.78M	12.50	-7.50	485.93M	-57.19	894.91M	-56.27	928M	-16.86	928M	-20.41	1.85546G	-42.63	2
Wi-Sun-150_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
902.4MHz	Pass	902.35M	12.66	-7.34	712.35M	-57.35	901.97M	-34.20	902M	-33.11	940.74M	-56.30	1.80455G	-39.71	1
915.2MHz	Pass	915.16M	12.57	-7.43	861.02M	-57.21	885.46M	-55.82	928M	-59.50	932.28M	-54.75	1.82944G	-43.22	1
927.6MHz	Pass	927.64M	12.48	-7.52	570.49M	-56.64	900.22M	-55.84	928M	-34.70	928.03M	-35.94	1.85433G	-44.93	1
Wi-Sun-150_Nss1_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
902.4MHz	Pass	902.35M	12.66	-7.34	677.73M	-57.30	901.99M	-35.24	902M	-33.80	932.23M	-56.13	1.80455G	-38.45	2
915.2MHz	Pass	915.16M	12.55	-7.45	713.09M	-57.19	899.69M	-56.35	928M	-59.18	940.5M	-55.89	1.82944G	-42.70	2
927.6MHz	Pass	927.56M	12.46	-7.54	368.56M	-56.62	892.67M	-56.38	928M	-32.69	928M	-34.26	1.85433G	-42.87	2
Wi-Sun-300_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
902.6MHz	Pass	902.52M	12.70	-7.30	735.67M	-57.08	901.93M	-36.40	902M	-38.36	937.89M	-55.88	1.80455G	-40.82	1
915.2MHz	Pass	915.13M	12.60	-7.40	765.92M	-56.94	892.68M	-55.94	902M	-59.27	930.01M	-55.80	1.82944G	-44.59	1
927.2MHz	Pass	927.13M	12.49	-7.51	690.83M	-57.35	894.85M	-56.22	928M	-38.09	928.01M	-36.31	8.98052G	-45.01	1
Wi-Sun-300_Nss1_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
902.6MHz	Pass	902.52M	12.65	-7.35	816.08M	-56.99	901.92M	-36.10	902M	-39.66	929.22M	-55.91	1.80455G	-38.95	2
915.2MHz	Pass	915.13M	12.54	-7.46	536.94M	-56.83	900.31M	-55.59	902M	-57.49	942.6M	-56.17	1.83057G	-42.50	2
927.2MHz	Pass	927.27M	12.46	-7.54	716.82M	-56.89	899.8M	-55.54	928M	-38.34	928.03M	-38.39	9.22153G	-45.45	2
Wi-Sun-600_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
903.0MHz	Pass	903.12M	12.66	-7.34	802.13M	-56.49	901.98M	-37.54	902M	-36.67	945.99M	-54.83	1.80568G	-41.43	1
915.0MHz	Pass	915.12M	12.58	-7.42	727.47M	-57.22	899.02M	-55.65	928M	-58.73	929.24M	-55.86	1.82944G	-43.15	1
927.0MHz	Pass	927.12M	12.49	-7.51	878.49M	-56.78	899.93M	-56.31	928M	-35.29	928.02M	-35.48	9.24982G	-46.06	1
Wi-Sun-600_Nss1_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
903.0MHz	Pass	903.12M	12.77	-7.23	846.54M	-57.16	901.98M	-36.95	902M	-35.97	931.24M	-55.53	1.80568G	-41.20	2
915.0MHz	Pass	915.12M	12.72	-7.28	706.81M	-57.26	900.03M	-55.70	902M	-59.51	929.27M	-55.04	1.82944G	-44.44	2
927.0MHz	Pass	927.13M	12.62	-7.38	782.96M	-56.69	884.41M	-55.87	928M	-36.00	928.04M	-36.00	1.8532G	-44.13	2

Wi-Sun-50_Nss1_1TX(Port1)

902.2MHz

CSE NdB

22/05/2020



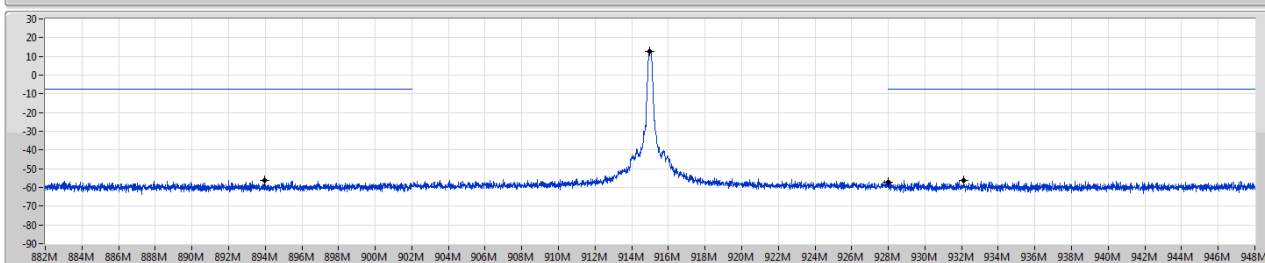
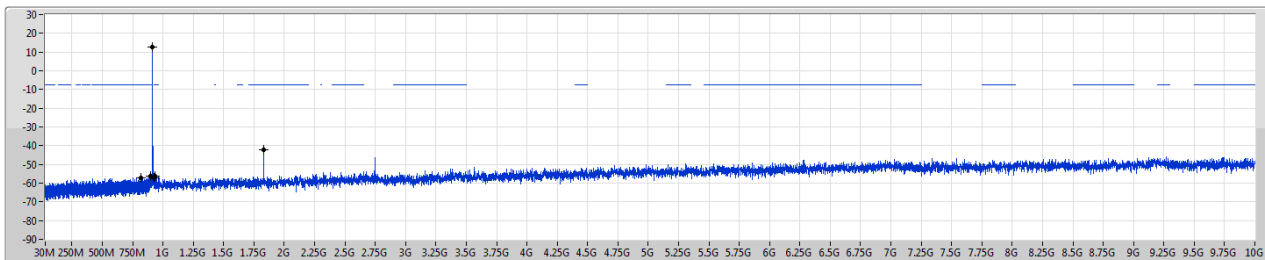
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902.17M	12.65	-7.35	663.57M	-56.99	902M	-21.13	902M	-15.66	941.66M	-56.14	1.80341G	-38.99	1

Wi-Sun-50_Nss1_1TX(Port1)

915.0MHz

CSE NdB

22/05/2020



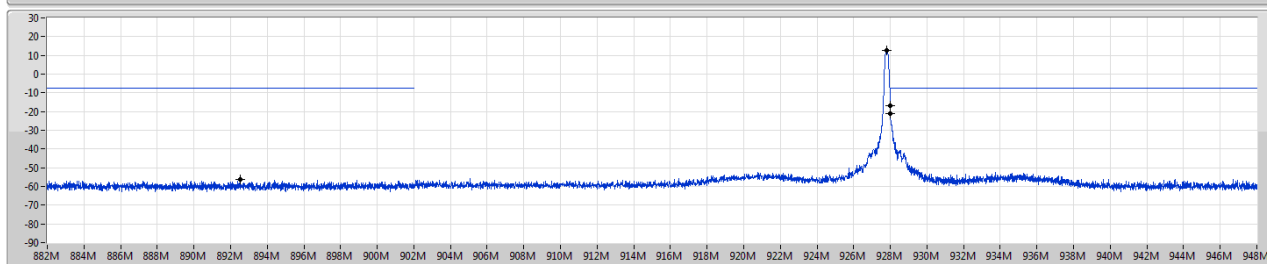
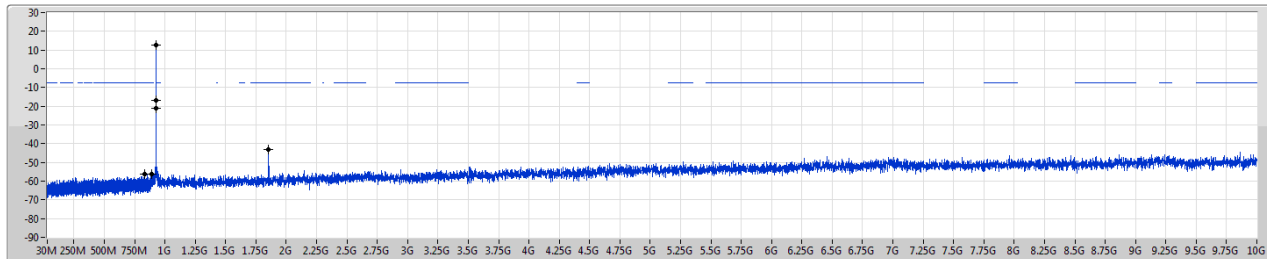
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
914.97M	12.53	-7.47	816.29M	-56.99	893.98M	-56.17	928M	-57.26	932.13M	-56.38	1.82944G	-42.40	1

Wi-Sun-50_Nss1_1TX(Port1)

927.8MHz

CSE NdB

22/05/2020



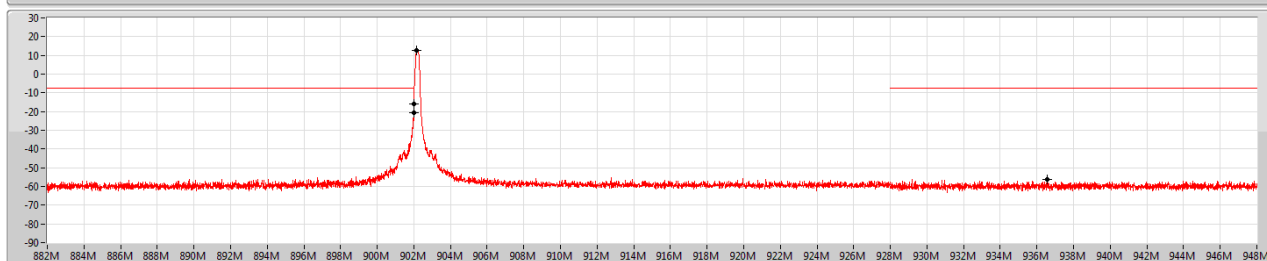
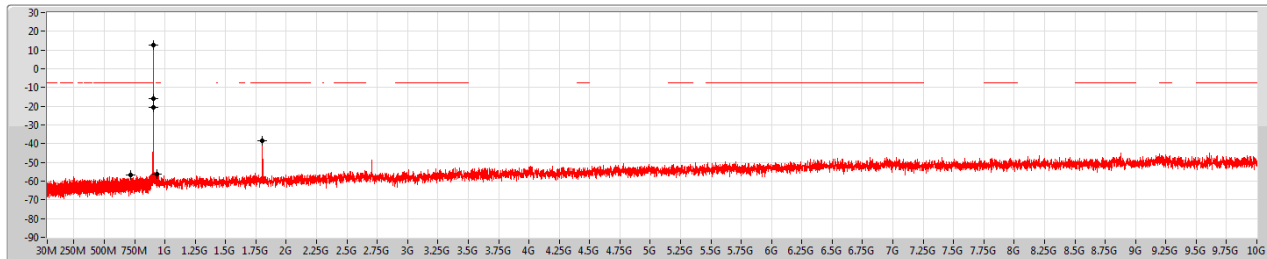
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
927.78M	12.45	-7.55	831.09M	-56.26	892.51M	-56.13	928M	-16.67	928M	-21.20	1.85546G	-43.25	1

Wi-Sun-50_Nss1_1TX(Port2)

902.2MHz

CSE NdB

22/05/2020



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
902.17M	12.71	-7.29	719.69M	-56.85	902M	-20.58	902M	-15.82	936.54M	-56.14	1.80341G	-38.54	2

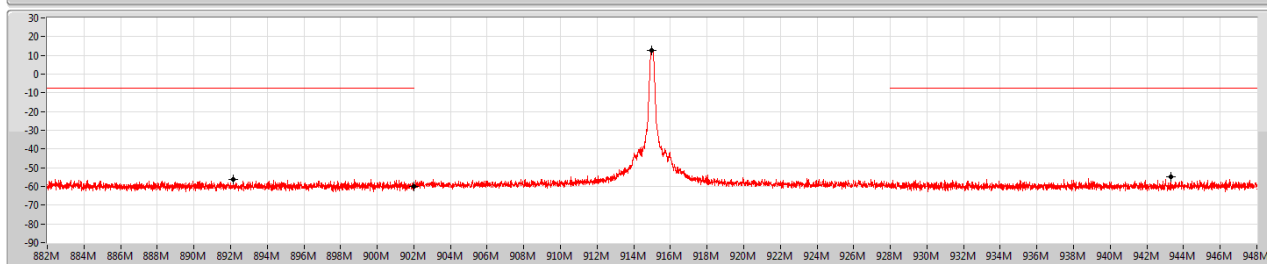
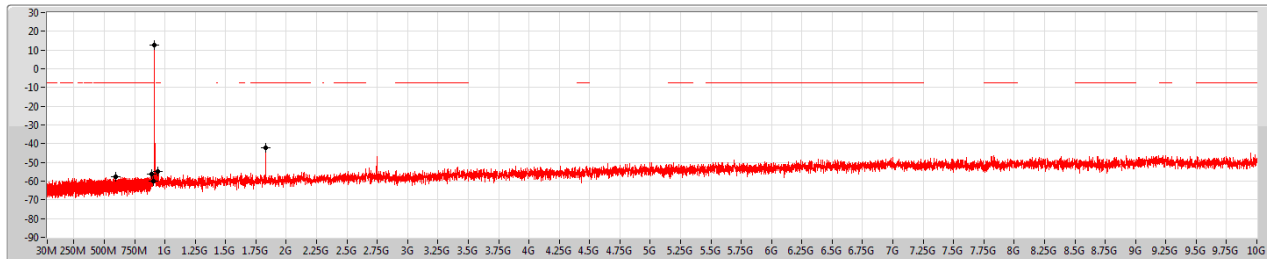
Wi-Sun-50_Nss1_1TX(Port2)

915.0MHz

CSE NdB

22/05/2020

Port 2



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

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
914.97M	12.59	-7.41	591.15M	-57.46	892.16M	-56.13	902M	-59.90	943.3M	-54.96	1.82944G	-42.28	2

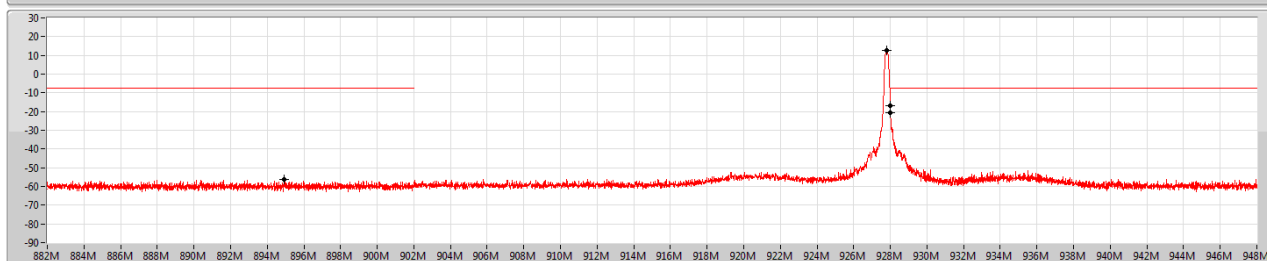
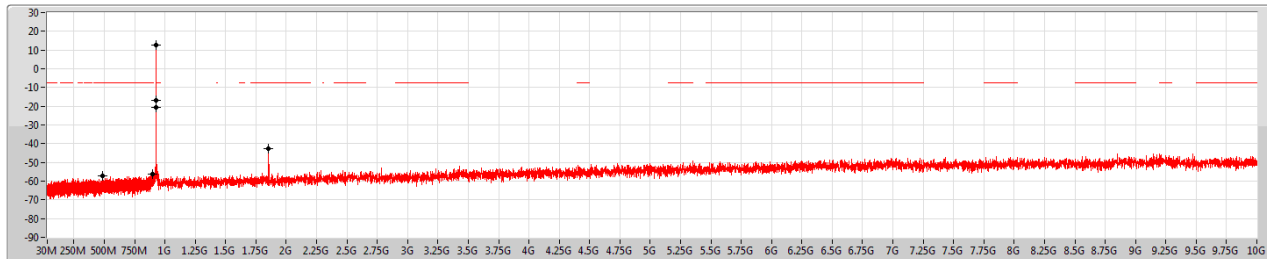
Wi-Sun-50_Nss1_1TX(Port2)

927.8MHz

CSE NdB

22/05/2020

Port 2



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

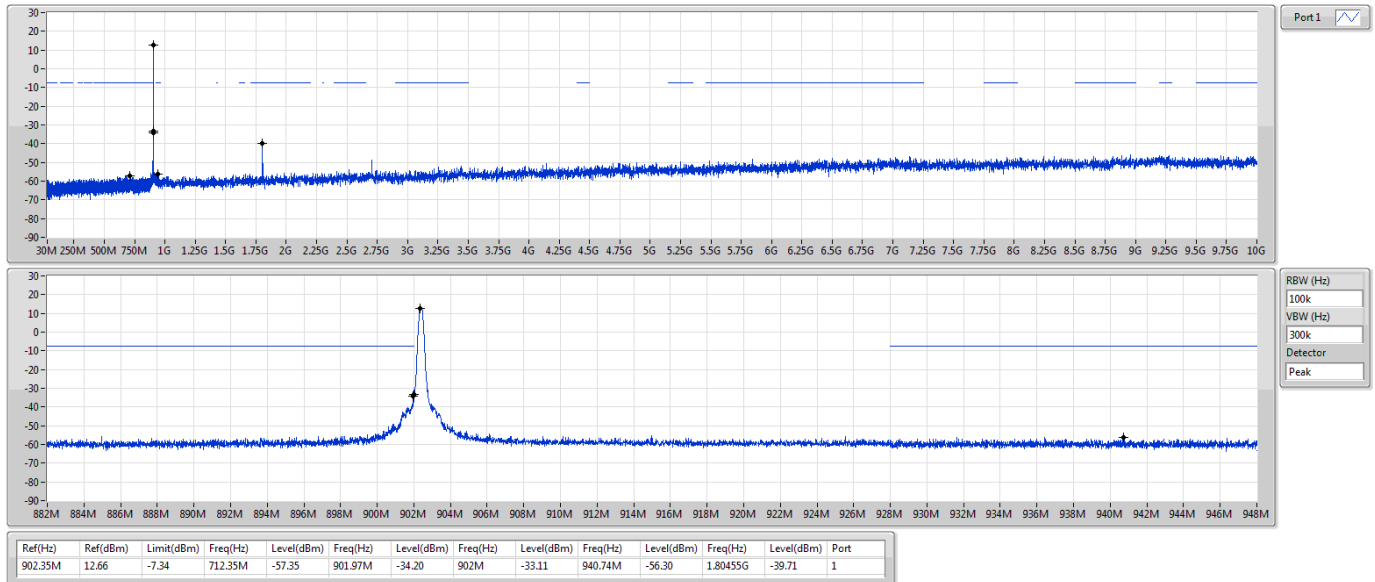
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
927.78M	12.50	-7.50	485.93M	-57.19	894.91M	-56.27	928M	-16.86	928M	-20.41	1.85546G	-42.63	2

Wi-Sun-150_Nss1_1TX(Port1)

902.4MHz

CSE NdB

22/05/2020

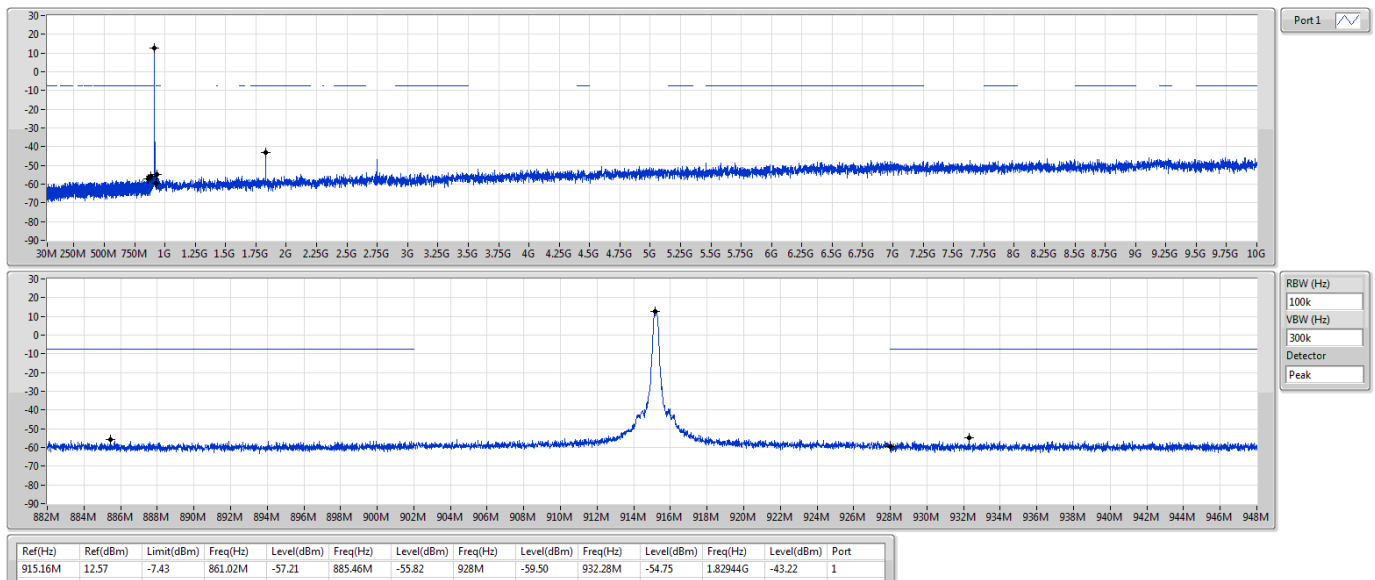


Wi-Sun-150_Nss1_1TX(Port1)

915.2MHz

CSE NdB

22/05/2020

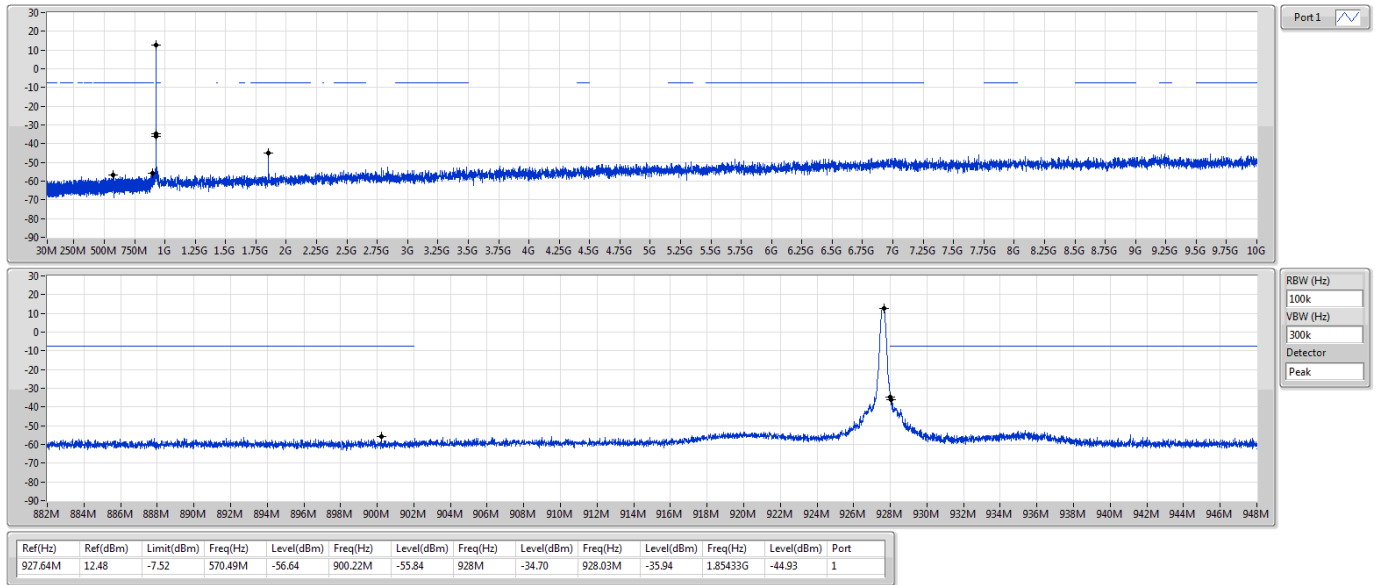


Wi-Sun-150_Nss1_1TX(Port1)

927.6MHz

CSE NdB

22/05/2020

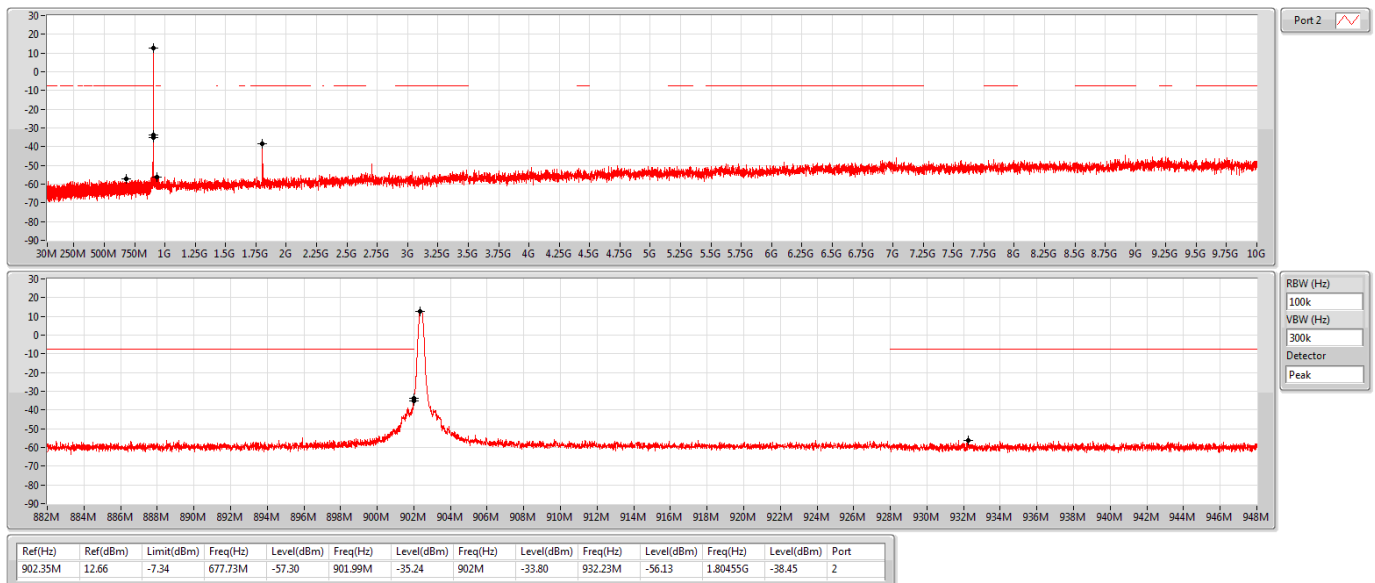


Wi-Sun-150_Nss1_1TX(Port2)

902.4MHz

CSE NdB

22/05/2020



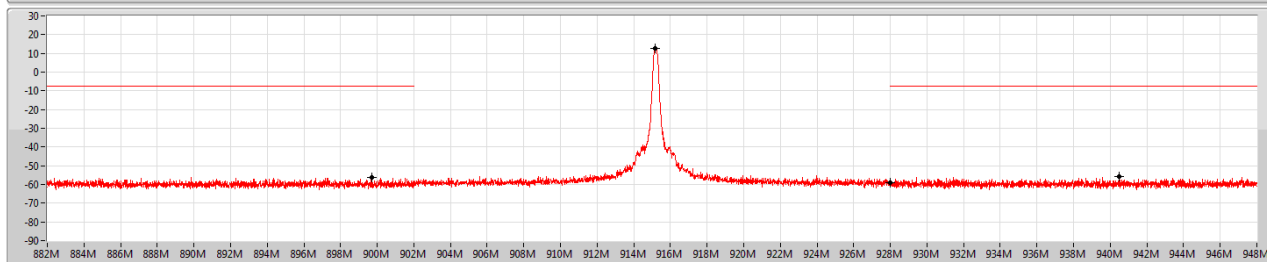
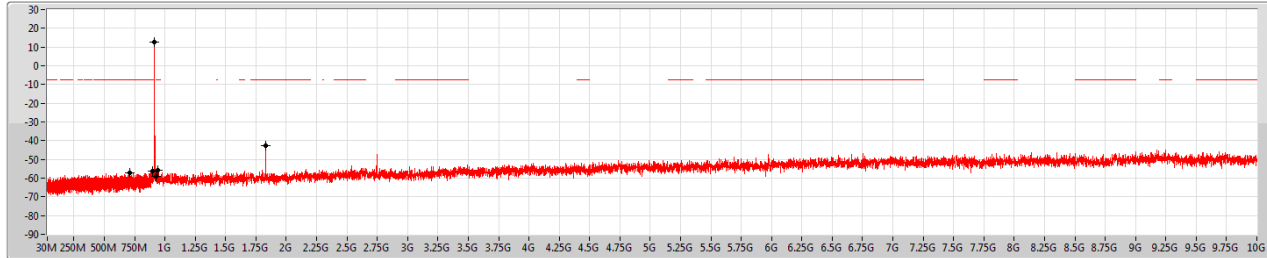
Wi-Sun-150_Nss1_1TX(Port2)

915.2MHz

CSE NdB

22/05/2020

Port 2



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

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
915.16M	12.55	-7.45	713.09M	-57.19	899.69M	-56.35	928M	-59.18	940.5M	-55.89	1.82944G	-42.70	2

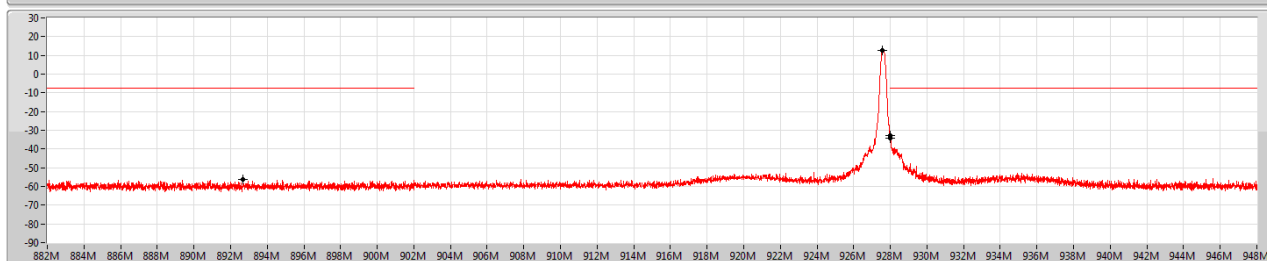
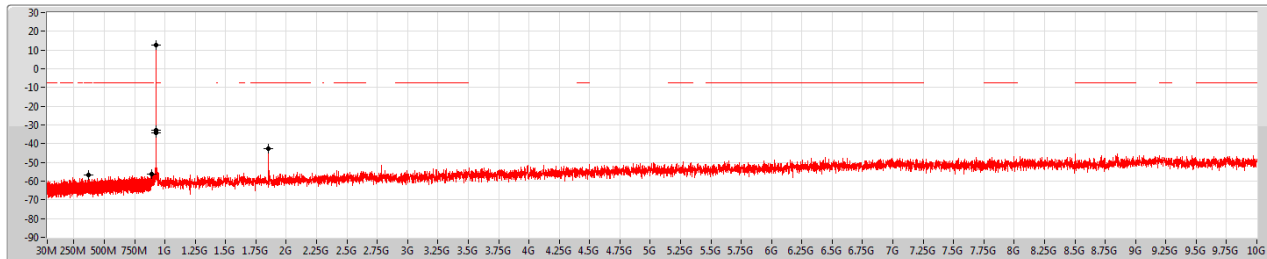
Wi-Sun-150_Nss1_1TX(Port2)

927.6MHz

CSE NdB

22/05/2020

Port 2



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

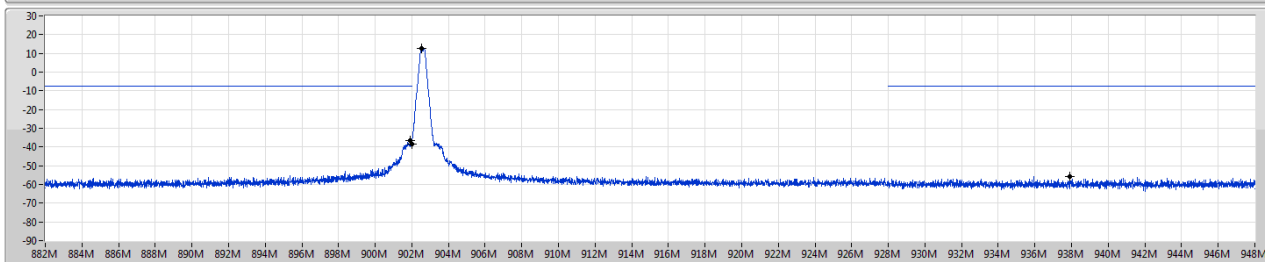
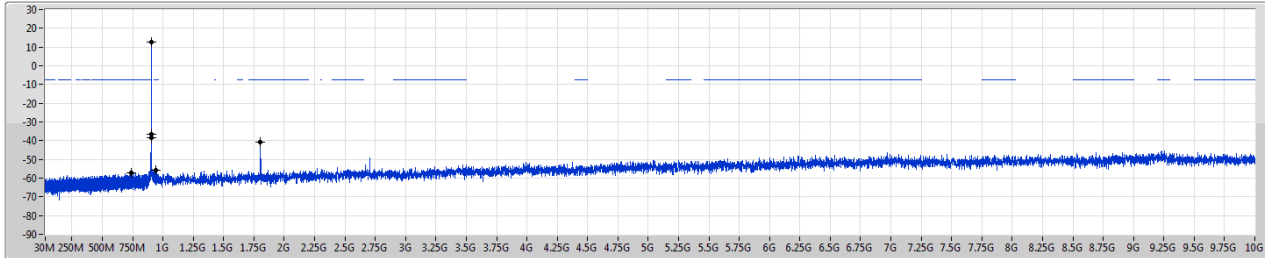
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
927.56M	12.46	-7.54	368.56M	-56.62	892.67M	-56.38	928M	-32.69	928M	-34.26	1.85433G	-42.87	2

Wi-Sun-300_Nss1_1TX(Port1)

902.6MHz

CSE NdB

22/05/2020



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

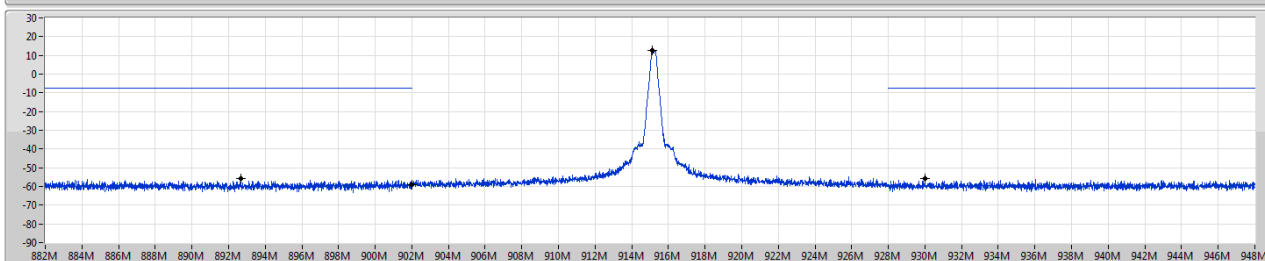
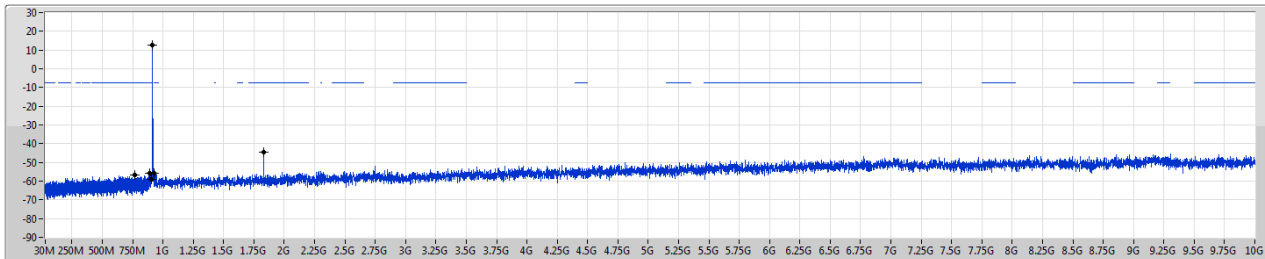
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
902.52M	12.70	-7.30	735.67M	-57.08	901.93M	-36.40	902M	-38.36	937.89M	-55.88	1.80455G	-40.82	1

Wi-Sun-300_Nss1_1TX(Port1)

915.2MHz

CSE NdB

22/05/2020



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

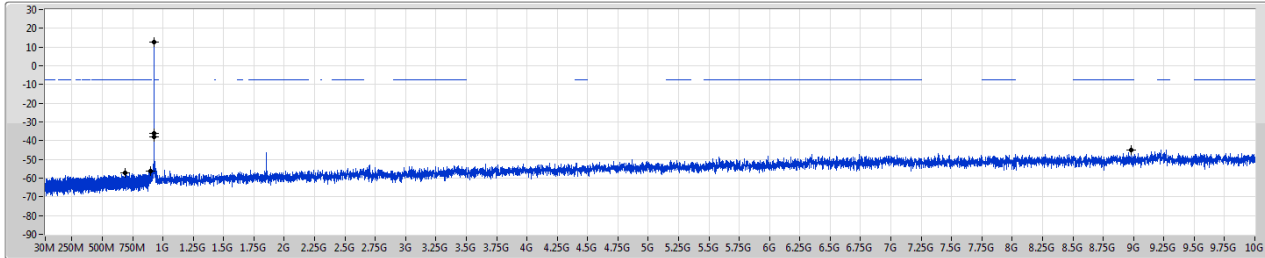
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
915.13M	12.60	-7.40	765.92M	-56.94	892.68M	-55.94	902M	-59.27	930.01M	-55.80	1.82944G	-44.59	1

Wi-Sun-300_Nss1_1TX(Port1)

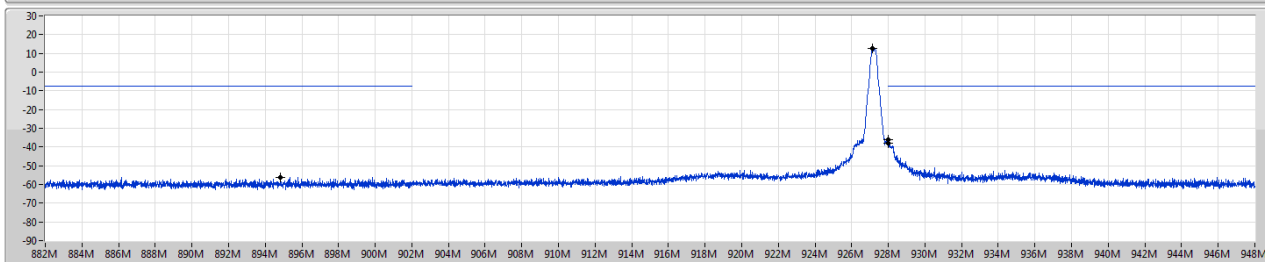
927.2MHz

CSE NdB

22/05/2020



Port 1



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

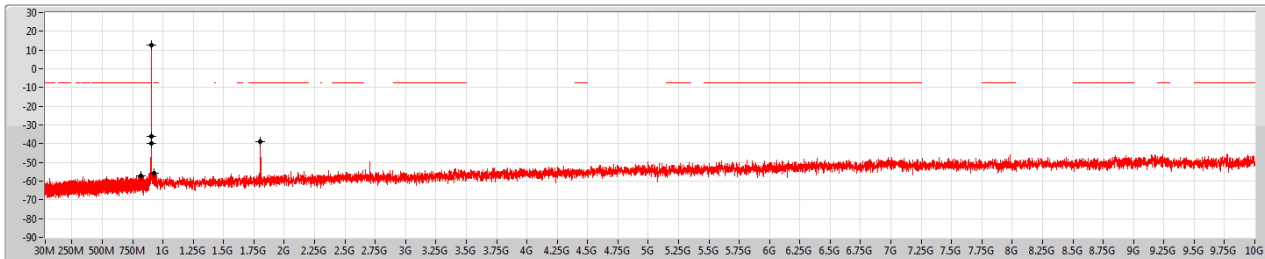
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
927.13M	12.49	-7.51	690.83M	-57.35	894.85M	-56.22	928M	-38.09	928.01M	-36.31	8.98052G	-45.01	1

Wi-Sun-300_Nss1_1TX(Port2)

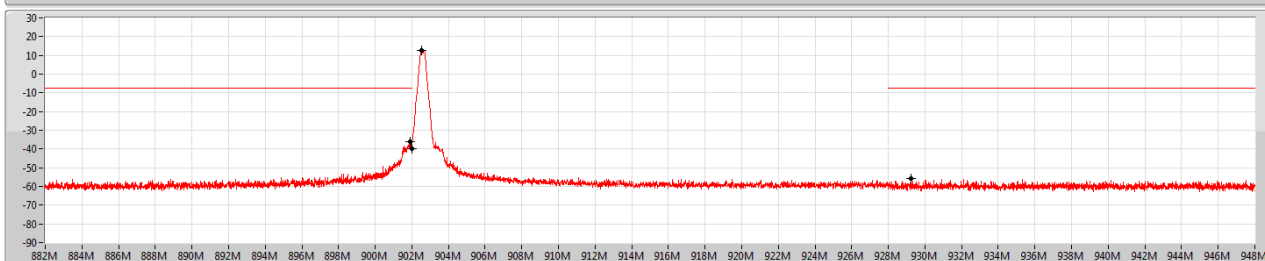
902.6MHz

CSE NdB

22/05/2020



Port 2



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

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
902.52M	12.65	-7.35	816.08M	-56.99	901.92M	-36.10	902M	-39.66	929.22M	-55.91	1.80455G	-38.95	2

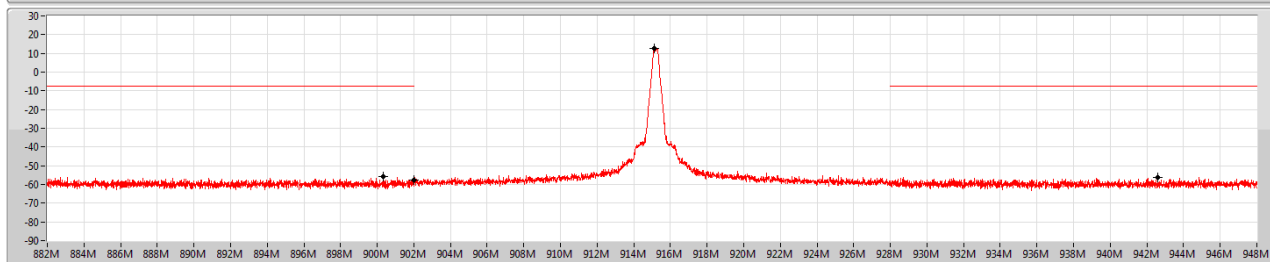
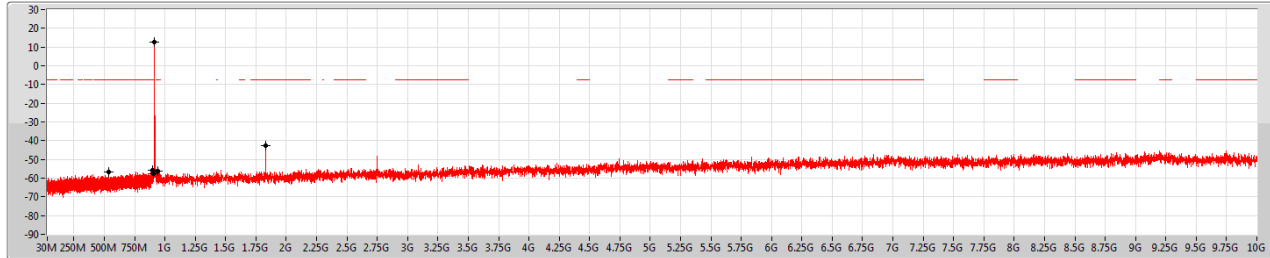
Wi-Sun-300_Nss1_1TX(Port2)

915.2MHz

CSE NdB

22/05/2020

Port 2



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

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
915.13M	12.54	-7.46	536.94M	-56.83	900.31M	-55.59	902M	-57.49	942.6M	-56.17	1.83057G	-42.50	2

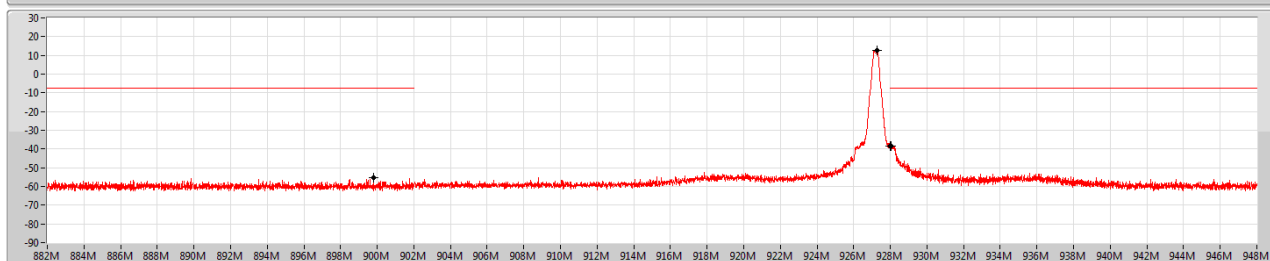
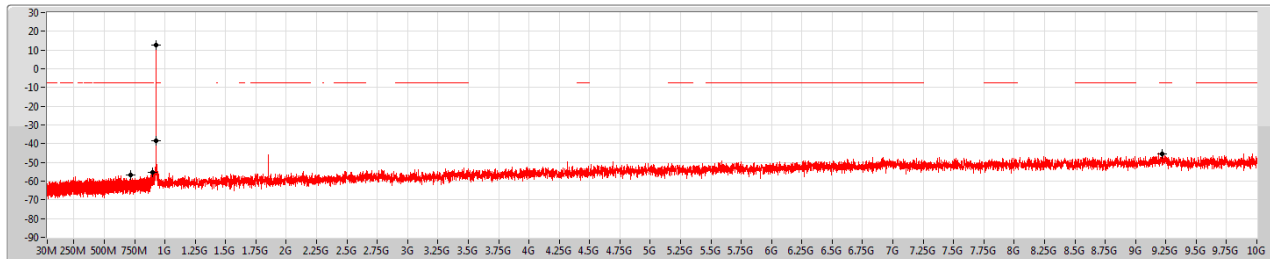
Wi-Sun-300_Nss1_1TX(Port2)

927.2MHz

CSE NdB

22/05/2020

Port 2



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

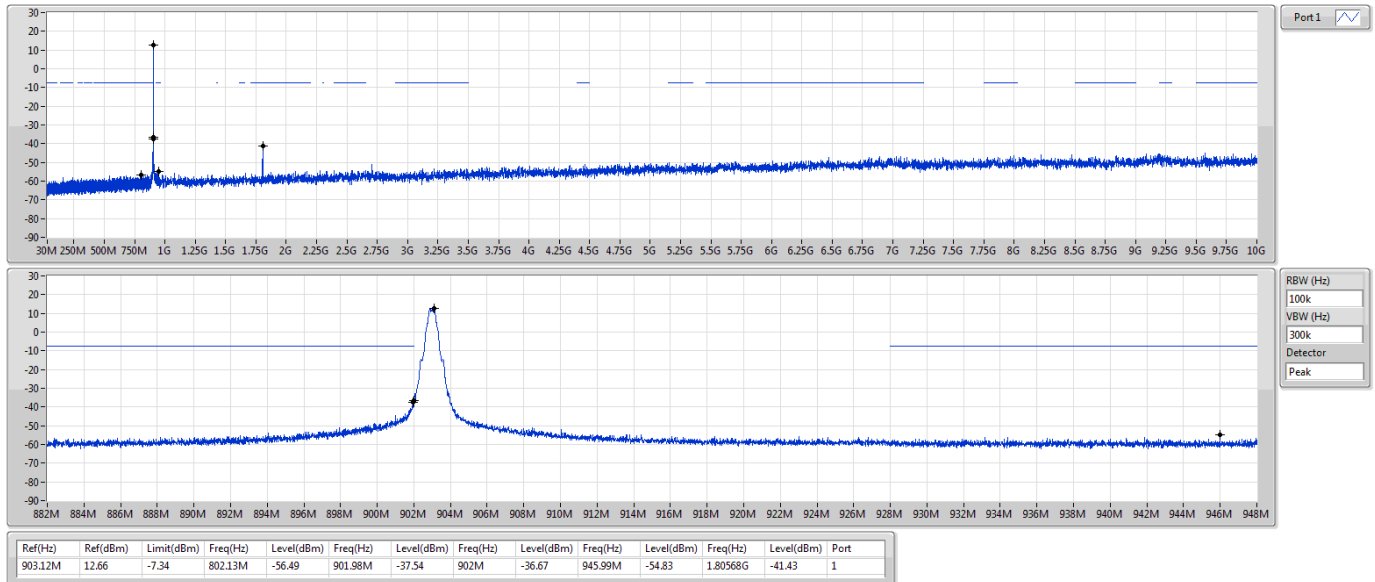
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
927.27M	12.46	-7.54	716.82M	-56.89	899.8M	-55.54	928M	-38.34	928.03M	-38.39	9.22153G	-45.45	2

Wi-Sun-600_Nss1_1TX(Port1)

903.0MHz

CSE NdB

22/05/2020

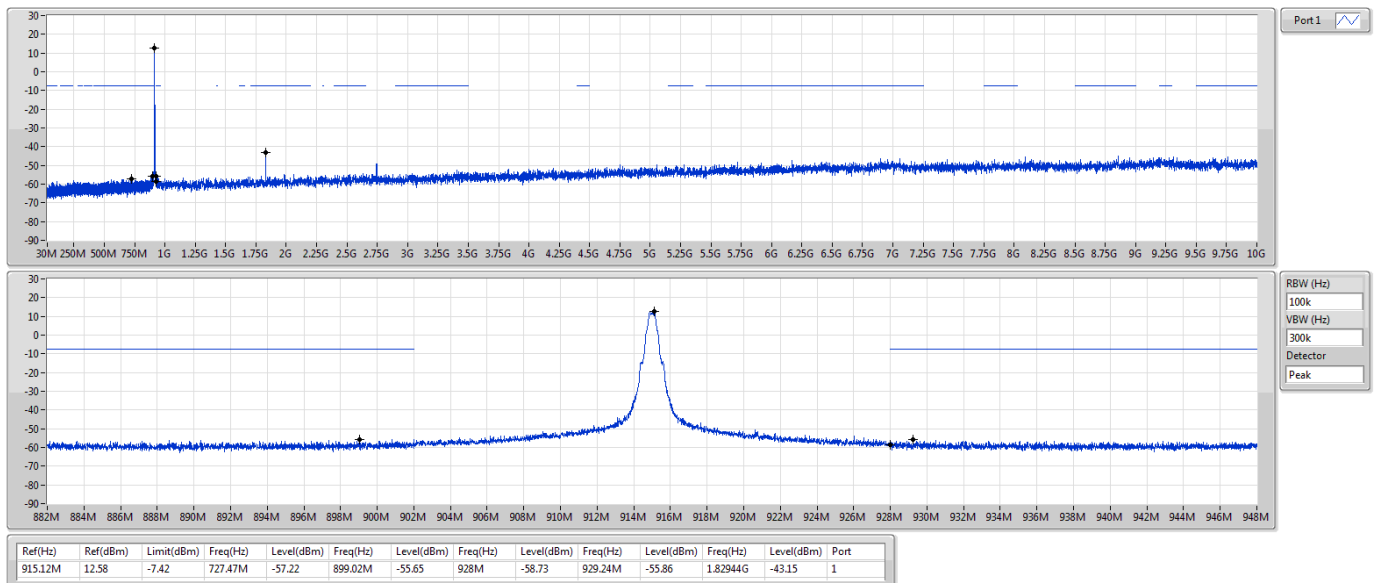


Wi-Sun-600_Nss1_1TX(Port1)

915.0MHz

CSE NdB

22/05/2020

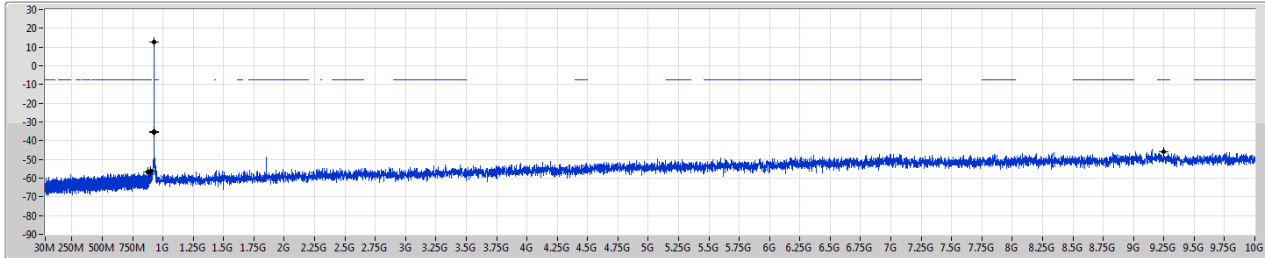


Wi-Sun-600_Nss1_1TX(Port1)

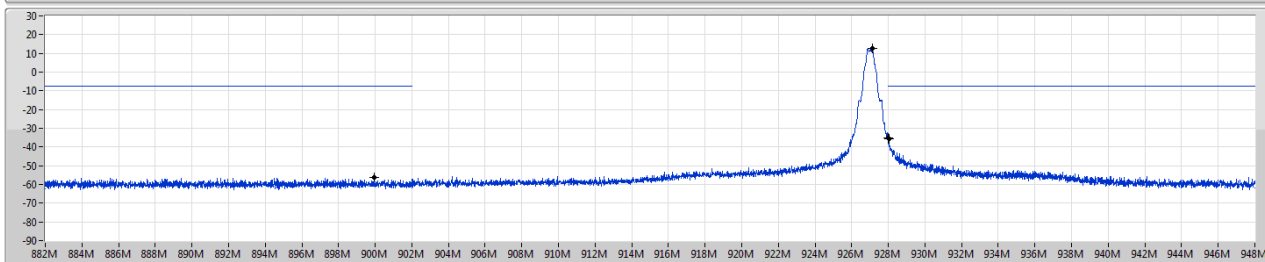
927.0MHz

CSE NdB

22/05/2020



Port 1



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

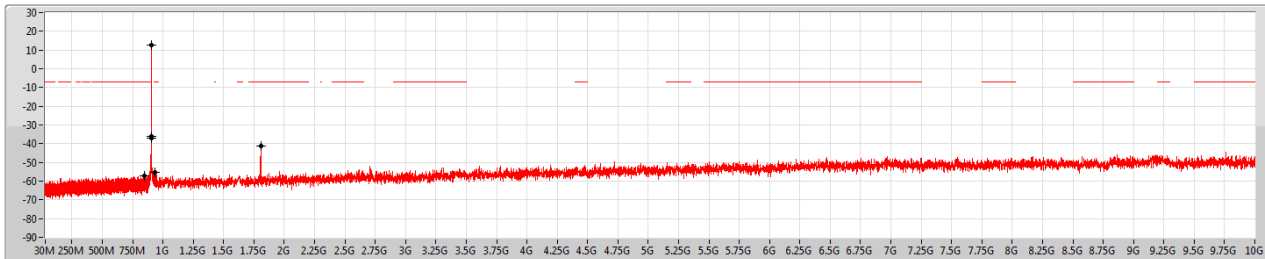
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
927.12M	12.49	-7.51	878.49M	-56.78	899.93M	-56.31	928M	-35.29	928.02M	-35.48	9.24982G	-46.06	1

Wi-Sun-600_Nss1_1TX(Port2)

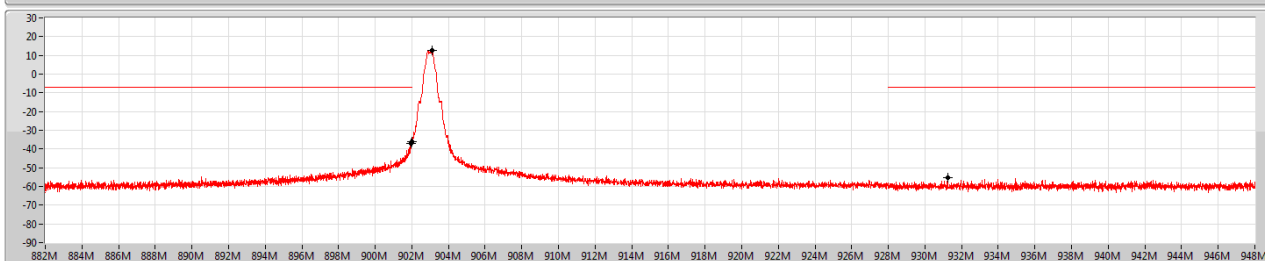
903.0MHz

CSE NdB

22/05/2020



Port 2



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

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
903.12M	12.77	-7.23	846.54M	-57.16	901.98M	-36.95	902M	-35.97	931.24M	-55.53	1.80568G	-41.20	2

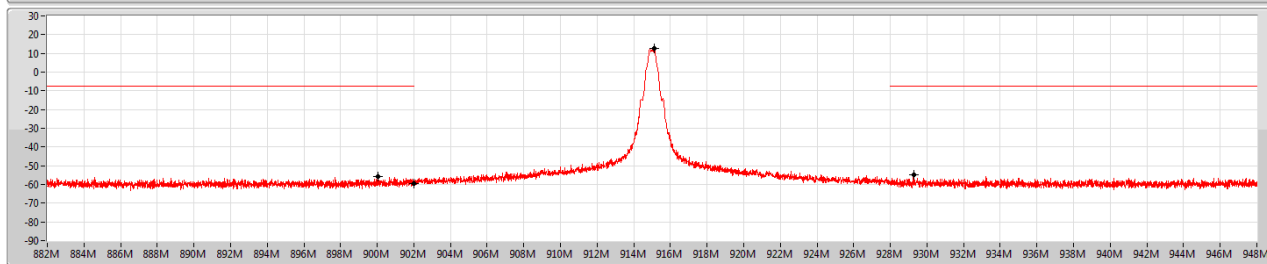
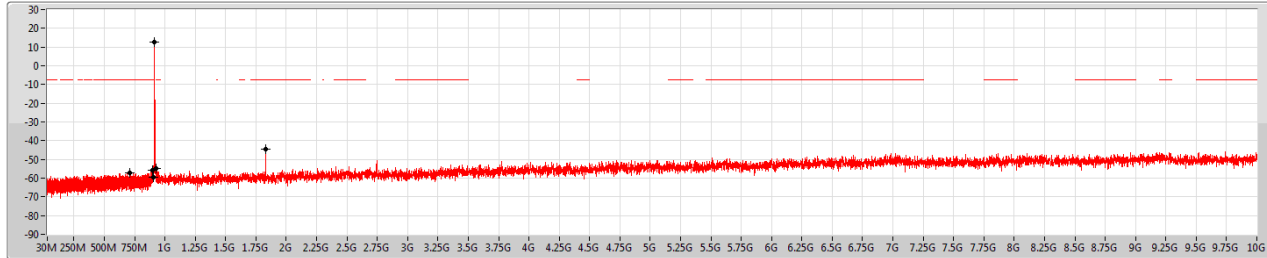
Wi-Sun-600_Nss1_1TX(Port2)

915.0MHz

CSE NdB

22/05/2020

Port 2



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

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
915.12M	12.72	-7.28	706.81M	-57.26	900.03M	-55.70	902M	-59.51	929.27M	-55.04	1.82944G	-44.44	2

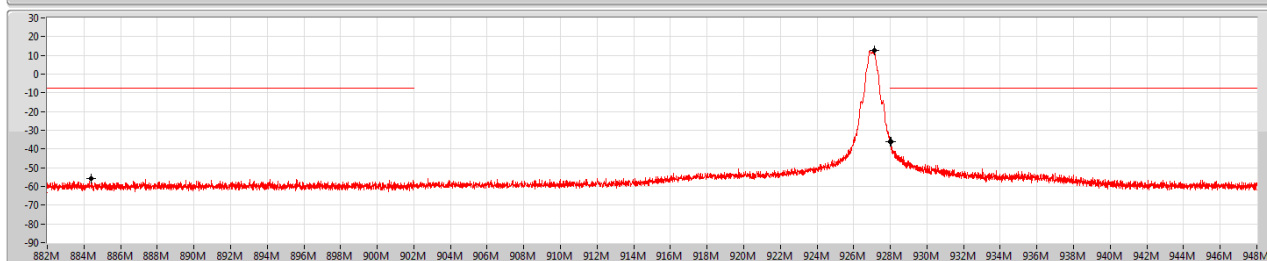
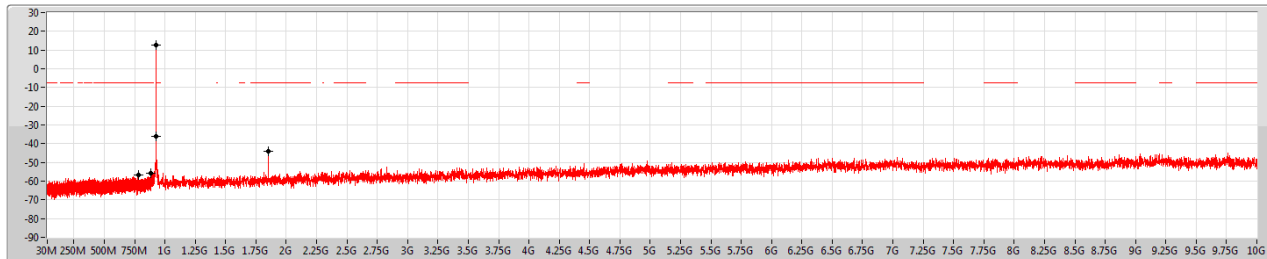
Wi-Sun-600_Nss1_1TX(Port2)

927.0MHz

CSE NdB

22/05/2020

Port 2



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

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
927.13M	12.62	-7.38	782.96M	-56.69	884.41M	-55.87	928M	-36.00	928.04M	-36.00	1.8532G	-44.13	2



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
902-928MHz	-	-	-	-	-	-	-	-	-	-	-
Wi-Sun-600_Nss1_1TX(Port1)	Pass	PK	45.52M	34.53	40.00	-5.47	3	Horizontal	0	1.00	-
Wi-Sun-600_Nss1_1TX(Port2)	Pass	PK	256.98M	38.37	46.00	-7.63	3	Horizontal	360	1.00	-

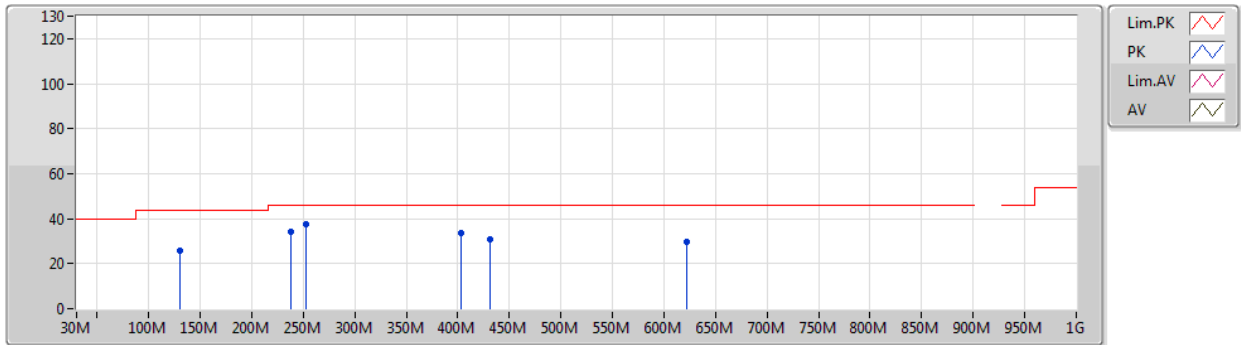
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Wi-Sun-600_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-
915.0MHz	Pass	PK	130.88M	25.70	43.50	-17.80	3	Vertical	360	1.00	-
915.0MHz	Pass	PK	237.58M	34.18	46.00	-11.82	3	Vertical	360	1.00	-
915.0MHz	Pass	PK	253.1M	37.57	46.00	-8.43	3	Vertical	360	1.00	-
915.0MHz	Pass	PK	402.48M	33.37	46.00	-12.63	3	Vertical	360	1.00	-
915.0MHz	Pass	PK	431.58M	30.90	46.00	-15.10	3	Vertical	360	1.00	-
915.0MHz	Pass	PK	621.7M	29.77	46.00	-16.23	3	Vertical	360	1.00	-
915.0MHz	Pass	PK	45.52M	34.53	40.00	-5.47	3	Horizontal	0	1.00	-
915.0MHz	Pass	PK	132.82M	30.22	43.50	-13.28	3	Horizontal	0	1.00	-
915.0MHz	Pass	PK	249.22M	37.38	46.00	-8.62	3	Horizontal	0	1.00	-
915.0MHz	Pass	PK	286.08M	39.86	46.00	-6.14	3	Horizontal	0	1.00	-
915.0MHz	Pass	PK	534.4M	32.43	46.00	-13.57	3	Horizontal	0	1.00	-
915.0MHz	Pass	PK	666.32M	33.75	46.00	-12.25	3	Horizontal	0	1.00	-
Wi-Sun-600_Nss1_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-
915.0MHz	Pass	PK	136.7M	26.05	43.50	-17.45	3	Vertical	0	1.00	-
915.0MHz	Pass	PK	222.06M	30.16	46.00	-15.84	3	Vertical	0	1.00	-
915.0MHz	Pass	PK	369.5M	32.51	46.00	-13.49	3	Vertical	0	1.00	-
915.0MHz	Pass	PK	431.58M	30.66	46.00	-15.34	3	Vertical	0	1.00	-
915.0MHz	Pass	PK	602.3M	29.02	46.00	-16.98	3	Vertical	0	1.00	-
915.0MHz	Pass	PK	666.32M	33.65	46.00	-12.35	3	Vertical	0	1.00	-
915.0MHz	Pass	PK	136.7M	31.05	43.50	-12.45	3	Horizontal	360	1.00	-
915.0MHz	Pass	PK	256.98M	38.37	46.00	-7.63	3	Horizontal	360	1.00	-
915.0MHz	Pass	PK	319.06M	34.52	46.00	-11.48	3	Horizontal	360	1.00	-
915.0MHz	Pass	PK	383.08M	31.06	46.00	-14.94	3	Horizontal	360	1.00	-
915.0MHz	Pass	PK	480.08M	28.00	46.00	-18.00	3	Horizontal	360	1.00	-
915.0MHz	Pass	PK	557.68M	32.81	46.00	-13.19	3	Horizontal	360	1.00	-

Wi-Sun-600_Nss1_1TX(Port1)

19/05/2020

915.0MHz_Test fixture

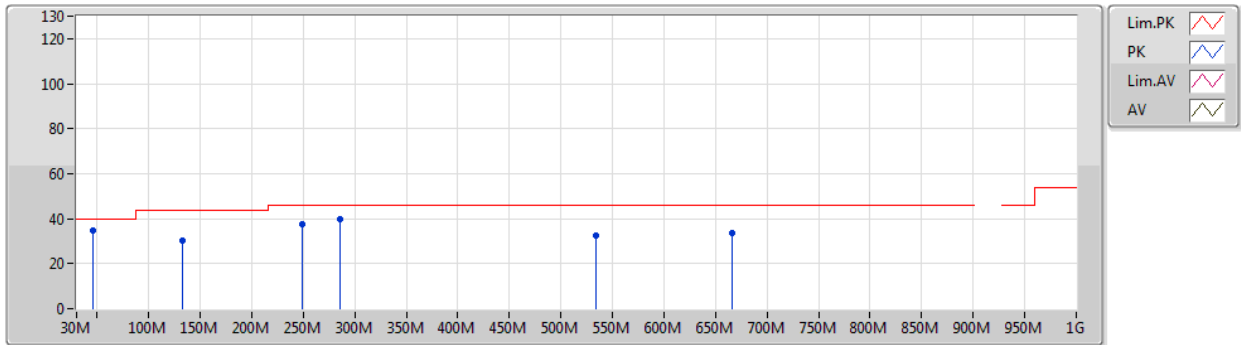


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	130.88M	25.70	43.50	-17.80	-19.07	3	Vertical	360	1.00	-	44.77	16.70	0.85	36.62
PK	237.58M	34.18	46.00	-11.82	-19.09	3	Vertical	360	1.00	-	53.27	16.07	1.25	36.41
PK	253.1M	37.57	46.00	-8.43	-17.00	3	Vertical	360	1.00	-	54.57	18.12	1.31	36.43
PK	402.48M	33.37	46.00	-12.63	-13.76	3	Vertical	360	1.00	-	47.13	21.02	1.70	36.48
PK	431.58M	30.90	46.00	-15.10	-13.11	3	Vertical	360	1.00	-	44.01	21.85	1.76	36.72
PK	621.7M	29.77	46.00	-16.23	-10.07	3	Vertical	360	1.00	-	39.84	24.98	2.20	37.25

Wi-Sun-600_Nss1_1TX(Port1)

19/05/2020

915.0MHz_Test fixture

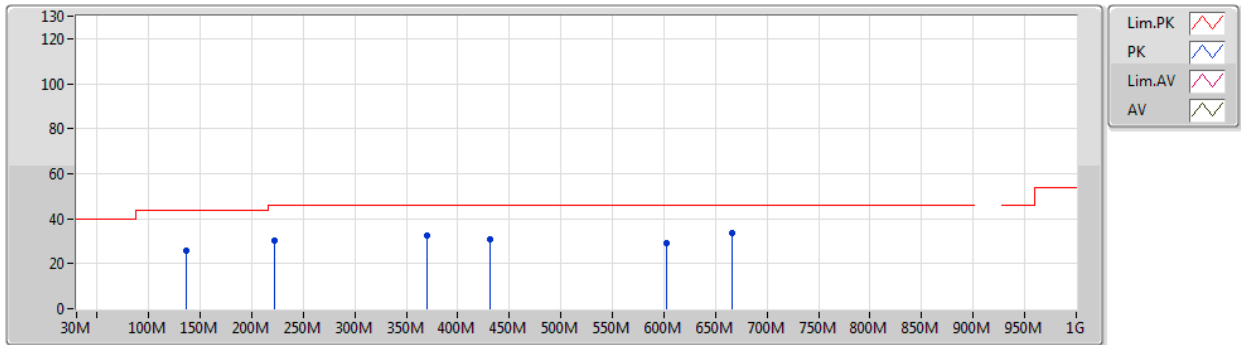


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	45.52M	34.53	40.00	-5.47	-20.84	3	Horizontal	0	1.00	-	55.37	15.76	0.50	37.10
PK	132.82M	30.22	43.50	-13.28	-19.04	3	Horizontal	0	1.00	-	49.26	16.67	0.86	36.57
PK	249.22M	37.38	46.00	-8.62	-17.62	3	Horizontal	0	1.00	-	55.00	17.51	1.30	36.43
PK	286.08M	39.86	46.00	-6.14	-17.07	3	Horizontal	0	1.00	-	56.93	18.03	1.37	36.47
PK	534.4M	32.43	46.00	-13.57	-11.98	3	Horizontal	0	1.00	-	44.41	23.07	1.97	37.02
PK	666.32M	33.75	46.00	-12.25	-9.71	3	Horizontal	0	1.00	-	43.46	25.33	2.27	37.31

Wi-Sun-600_Nss1_1TX(Port2)

19/05/2020

915.0MHz_Test fixture

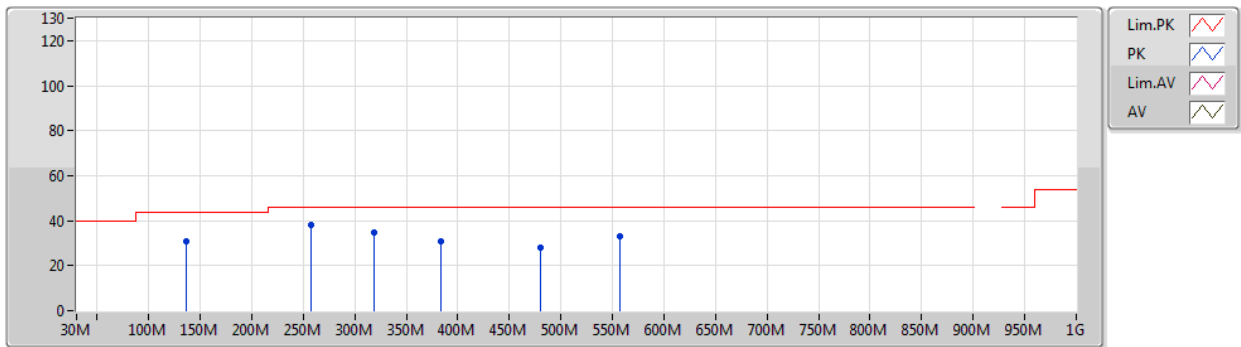


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	136.7M	26.05	43.50	-17.45	-18.97	3	Vertical	0	1.00	-	45.02	16.60	0.88	36.45
PK	222.06M	30.16	46.00	-15.84	-20.76	3	Vertical	0	1.00	-	50.92	14.43	1.19	36.38
PK	369.5M	32.51	46.00	-13.49	-15.20	3	Vertical	0	1.00	-	47.71	19.81	1.58	36.59
PK	431.58M	30.66	46.00	-15.34	-13.11	3	Vertical	0	1.00	-	43.77	21.85	1.76	36.72
PK	602.3M	29.02	46.00	-16.98	-10.31	3	Vertical	0	1.00	-	39.33	24.67	2.20	37.18
PK	666.32M	33.65	46.00	-12.35	-9.71	3	Vertical	0	1.00	-	43.36	25.33	2.27	37.31

Wi-Sun-600_Nss1_1TX(Port2)

19/05/2020

915.0MHz_Test fixture



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	136.7M	31.05	43.50	-12.45	-18.97	3	Horizontal	360	1.00	-	50.02	16.60	0.88	36.45
PK	256.98M	38.37	46.00	-7.63	-16.37	3	Horizontal	360	1.00	-	54.74	18.75	1.31	36.43
PK	319.06M	34.52	46.00	-11.48	-16.59	3	Horizontal	360	1.00	-	51.11	18.48	1.44	36.51
PK	383.08M	31.06	46.00	-14.94	-14.74	3	Horizontal	360	1.00	-	45.80	20.24	1.63	36.61
PK	480.08M	28.00	46.00	-18.00	-12.30	3	Horizontal	360	1.00	-	40.30	22.70	1.86	36.86
PK	557.68M	32.81	46.00	-13.19	-10.08	3	Horizontal	360	1.00	-	42.89	24.99	2.03	37.10

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
902-928MHz	-	-	-	-	-	-	-	-	-	-	-
Wi-Sun-50_Nss1_1TX(Port1)	Pass	AV	2.7066G	53.60	54.00	-0.40	3	Horizontal	38	1.86	-
Wi-Sun-50_Nss1_1TX(Port2)	Pass	AV	2.70661G	52.15	54.00	-1.85	3	Horizontal	6	1.01	-
Wi-Sun-150_Nss1_1TX(Port1)	Pass	AV	2.70721G	53.46	54.00	-0.54	3	Horizontal	16	1.00	-
Wi-Sun-150_Nss1_1TX(Port2)	Pass	AV	2.78282G	53.89	54.00	-0.11	3	Vertical	347	1.06	-
Wi-Sun-300_Nss1_1TX(Port1)	Pass	AV	2.7078G	52.13	54.00	-1.87	3	Horizontal	14	1.01	-
Wi-Sun-300_Nss1_1TX(Port2)	Pass	AV	2.70781G	53.01	54.00	-0.99	3	Horizontal	360	1.00	-
Wi-Sun-600_Nss1_1TX(Port1)	Pass	AV	2.70901G	49.26	54.00	-4.74	3	Horizontal	13	1.01	-
Wi-Sun-600_Nss1_1TX(Port2)	Pass	AV	2.70901G	49.69	54.00	-4.31	3	Horizontal	7	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Wi-Sun-50_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-
902.2MHz	Pass	AV	2.70658G	53.15	54.00	-0.85	3	Vertical	320	1.00	-
902.2MHz	Pass	PK	2.70669G	54.71	74.00	-19.29	3	Vertical	320	1.00	-
902.2MHz	Pass	AV	2.7066G	53.60	54.00	-0.40	3	Horizontal	38	1.86	-
902.2MHz	Pass	PK	2.70651G	55.12	74.00	-18.88	3	Horizontal	38	1.86	-
915.0MHz	Pass	AV	2.745G	53.39	54.00	-0.61	3	Vertical	330	1.00	-
915.0MHz	Pass	PK	2.74511G	54.85	74.00	-19.15	3	Vertical	330	1.00	-
915.0MHz	Pass	AV	2.74499G	50.13	54.00	-3.87	3	Horizontal	37	1.42	-
915.0MHz	Pass	PK	2.74511G	52.07	74.00	-21.93	3	Horizontal	37	1.42	-
927.8MHz	Pass	AV	2.78341G	53.50	54.00	-0.50	3	Vertical	348	1.06	-
927.8MHz	Pass	PK	2.78345G	55.85	74.00	-18.15	3	Vertical	348	1.06	-
927.8MHz	Pass	AV	2.78341G	45.09	54.00	-8.91	3	Horizontal	13	1.00	-
927.8MHz	Pass	PK	2.78337G	50.65	74.00	-23.35	3	Horizontal	13	1.00	-
927.8MHz	Pass	PK	2.782G	55.44	74.00	-18.56	3	Vertical	0	2.00	-
Wi-Sun-50_Nss1_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-
902.2MHz	Pass	AV	2.70662G	51.73	54.00	-2.27	3	Vertical	150	1.13	-
902.2MHz	Pass	PK	2.7065G	54.61	74.00	-19.39	3	Vertical	150	1.13	-
902.2MHz	Pass	AV	2.70661G	52.15	54.00	-1.85	3	Horizontal	6	1.01	-
902.2MHz	Pass	PK	2.70658G	54.97	74.00	-19.03	3	Horizontal	6	1.01	-
915.0MHz	Pass	AV	2.74501G	49.82	54.00	-4.18	3	Vertical	174	1.49	-
915.0MHz	Pass	PK	2.74503G	53.50	74.00	-20.50	3	Vertical	174	1.49	-
915.0MHz	Pass	AV	2.74502G	50.76	54.00	-3.24	3	Horizontal	349	1.19	-
915.0MHz	Pass	PK	2.74501G	53.60	74.00	-20.40	3	Horizontal	349	1.19	-
927.8MHz	Pass	AV	2.78341G	51.93	54.00	-2.07	3	Vertical	2	1.05	-
927.8MHz	Pass	PK	2.78352G	54.45	74.00	-19.55	3	Vertical	2	1.05	-
927.8MHz	Pass	AV	2.78343G	48.35	54.00	-5.65	3	Horizontal	357	1.00	-
927.8MHz	Pass	PK	2.78348G	52.13	74.00	-21.87	3	Horizontal	357	1.00	-
Wi-Sun-150_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-
902.4MHz	Pass	AV	2.70722G	50.86	54.00	-3.14	3	Vertical	142	1.16	-
902.4MHz	Pass	PK	2.70723G	54.05	74.00	-19.95	3	Vertical	142	1.16	-
902.4MHz	Pass	AV	2.70721G	53.46	54.00	-0.54	3	Horizontal	16	1.00	-
902.4MHz	Pass	PK	2.70733G	55.96	74.00	-18.04	3	Horizontal	16	1.00	-
915.2MHz	Pass	AV	2.7456G	49.74	54.00	-4.26	3	Vertical	142	1.36	-
915.2MHz	Pass	PK	2.74567G	53.29	74.00	-20.71	3	Vertical	142	1.36	-
915.2MHz	Pass	AV	2.74562G	50.32	54.00	-3.68	3	Horizontal	12	1.00	-
915.2MHz	Pass	PK	2.74568G	53.55	74.00	-20.45	3	Horizontal	12	1.00	-
927.6MHz	Pass	AV	2.78281G	52.20	54.00	-1.80	3	Vertical	348	1.06	-
927.6MHz	Pass	PK	2.78282G	54.91	74.00	-19.09	3	Vertical	348	1.06	-
927.6MHz	Pass	AV	2.78281G	44.90	54.00	-9.10	3	Horizontal	129	1.00	-
927.6MHz	Pass	PK	2.78277G	50.23	74.00	-23.77	3	Horizontal	129	1.00	-
Wi-Sun-150_Nss1_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-
902.4MHz	Pass	AV	2.70722G	52.91	54.00	-1.09	3	Vertical	150	1.15	-
902.4MHz	Pass	PK	2.70713G	55.73	74.00	-18.27	3	Vertical	150	1.15	-
902.4MHz	Pass	AV	2.70722G	53.59	54.00	-0.41	3	Horizontal	7	1.00	-
902.4MHz	Pass	PK	2.7071G	56.41	74.00	-17.59	3	Horizontal	7	1.00	-
915.2MHz	Pass	AV	2.74561G	51.21	54.00	-2.79	3	Vertical	176	1.00	-
915.2MHz	Pass	PK	2.74545G	54.43	74.00	-19.57	3	Vertical	176	1.00	-
915.2MHz	Pass	AV	2.74561G	52.27	54.00	-1.73	3	Horizontal	357	1.18	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
915.2MHz	Pass	PK	2.74581G	55.43	74.00	-18.57	3	Horizontal	357	1.18	-
927.6MHz	Pass	AV	2.78282G	53.89	54.00	-0.11	3	Vertical	347	1.06	-
927.6MHz	Pass	PK	2.78288G	55.90	74.00	-18.10	3	Vertical	347	1.06	-
927.6MHz	Pass	AV	2.78282G	49.18	54.00	-4.82	3	Horizontal	33	1.00	-
927.6MHz	Pass	PK	2.78263G	53.11	74.00	-20.89	3	Horizontal	33	1.00	-
Wi-Sun-300_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-
902.6MHz	Pass	AV	2.70781G	49.17	54.00	-4.83	3	Vertical	140	1.14	-
902.6MHz	Pass	PK	2.70754G	53.56	74.00	-20.44	3	Vertical	140	1.14	-
902.6MHz	Pass	AV	2.7078G	52.13	54.00	-1.87	3	Horizontal	14	1.01	-
902.6MHz	Pass	PK	2.70804G	55.81	74.00	-18.19	3	Horizontal	14	1.01	-
915.2MHz	Pass	AV	2.74561G	48.54	54.00	-5.46	3	Vertical	314	1.33	-
915.2MHz	Pass	PK	2.74586G	53.20	74.00	-20.80	3	Vertical	314	1.33	-
915.2MHz	Pass	AV	2.74561G	48.70	54.00	-5.30	3	Horizontal	14	1.00	-
915.2MHz	Pass	PK	2.74591G	53.12	74.00	-20.88	3	Horizontal	14	1.00	-
927.2MHz	Pass	AV	2.7816G	51.07	54.00	-2.93	3	Vertical	347	1.06	-
927.2MHz	Pass	PK	2.78182G	54.82	74.00	-19.18	3	Vertical	347	1.06	-
927.2MHz	Pass	AV	2.7816G	43.56	54.00	-10.44	3	Horizontal	170	1.22	-
927.2MHz	Pass	PK	2.78137G	50.26	74.00	-23.74	3	Horizontal	170	1.22	-
Wi-Sun-300_Nss1_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-
902.6MHz	Pass	AV	2.7078G	52.01	54.00	-1.99	3	Vertical	152	1.14	-
902.6MHz	Pass	PK	2.70755G	55.87	74.00	-18.13	3	Vertical	152	1.14	-
902.6MHz	Pass	AV	2.70781G	53.01	54.00	-0.99	3	Horizontal	360	1.00	-
902.6MHz	Pass	PK	2.70803G	56.45	74.00	-17.55	3	Horizontal	360	1.00	-
915.2MHz	Pass	AV	2.74562G	49.83	54.00	-4.17	3	Vertical	177	1.50	-
915.2MHz	Pass	PK	2.74583G	54.25	74.00	-19.75	3	Vertical	177	1.50	-
915.2MHz	Pass	AV	2.74561G	51.59	54.00	-2.41	3	Horizontal	356	1.19	-
915.2MHz	Pass	PK	2.74529G	55.30	74.00	-18.70	3	Horizontal	356	1.19	-
927.2MHz	Pass	AV	2.78161G	52.97	54.00	-1.03	3	Vertical	347	1.05	-
927.2MHz	Pass	PK	2.78144G	56.33	74.00	-17.67	3	Vertical	347	1.05	-
927.2MHz	Pass	AV	2.78161G	50.07	54.00	-3.93	3	Horizontal	346	1.94	-
927.2MHz	Pass	PK	2.78151G	53.96	74.00	-20.04	3	Horizontal	346	1.94	-
Wi-Sun-600_Nss1_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-
903.0MHz	Pass	AV	2.70902G	46.43	54.00	-7.57	3	Vertical	141	1.39	-
903.0MHz	Pass	PK	2.70924G	52.92	74.00	-21.08	3	Vertical	141	1.39	-
903.0MHz	Pass	AV	2.70901G	49.26	54.00	-4.74	3	Horizontal	13	1.01	-
903.0MHz	Pass	PK	2.70876G	55.02	74.00	-18.98	3	Horizontal	13	1.01	-
915.0MHz	Pass	AV	2.74502G	45.43	54.00	-8.57	3	Vertical	141	1.37	-
915.0MHz	Pass	PK	2.74469G	51.59	74.00	-22.41	3	Vertical	141	1.46	-
915.0MHz	Pass	AV	2.745G	46.67	54.00	-7.33	3	Horizontal	13	1.00	-
915.0MHz	Pass	PK	2.74527G	53.02	74.00	-20.98	3	Horizontal	13	1.00	-
927.0MHz	Pass	AV	2.781G	48.56	54.00	-5.44	3	Vertical	349	1.05	-
927.0MHz	Pass	PK	2.78071G	54.51	74.00	-19.49	3	Vertical	349	1.05	-
927.0MHz	Pass	AV	2.781G	40.93	54.00	-13.07	3	Horizontal	11	1.00	-
927.0MHz	Pass	PK	2.78062G	49.42	74.00	-24.58	3	Horizontal	11	1.00	-
Wi-Sun-600_Nss1_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-
903.0MHz	Pass	AV	2.709G	48.11	54.00	-5.89	3	Vertical	150	1.13	-
903.0MHz	Pass	PK	2.70946G	54.27	74.00	-19.73	3	Vertical	150	1.13	-
903.0MHz	Pass	AV	2.70901G	49.69	54.00	-4.31	3	Horizontal	7	1.00	-
903.0MHz	Pass	PK	2.70862G	55.48	74.00	-18.52	3	Horizontal	7	1.00	-

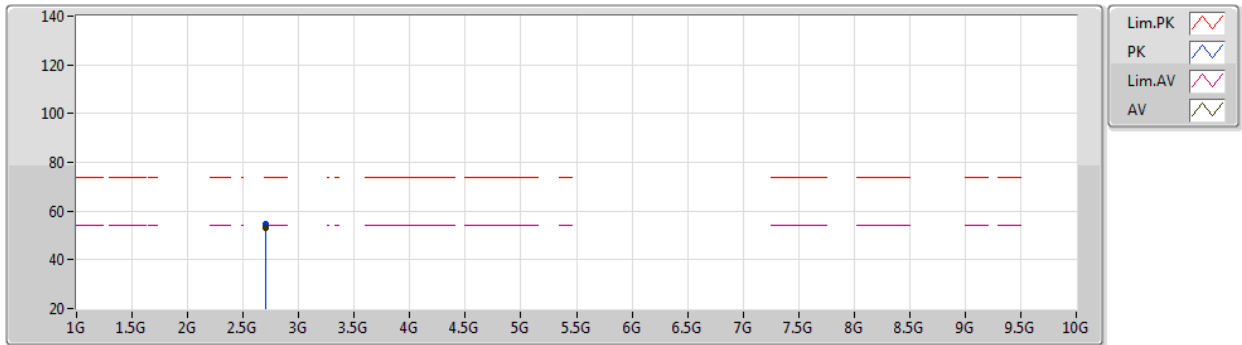


Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
915.0MHz	Pass	AV	2.74502G	46.23	54.00	-7.77	3	Vertical	178	1.00	-
915.0MHz	Pass	PK	2.74474G	52.78	74.00	-21.22	3	Vertical	178	1.00	-
915.0MHz	Pass	AV	2.74499G	47.57	54.00	-6.43	3	Horizontal	1	1.20	-
915.0MHz	Pass	PK	2.74537G	53.96	74.00	-20.04	3	Horizontal	1	1.20	-
927.0MHz	Pass	AV	2.78102G	48.94	54.00	-5.06	3	Vertical	348	1.09	-
927.0MHz	Pass	PK	2.7806G	55.07	74.00	-18.93	3	Vertical	348	1.09	-
927.0MHz	Pass	AV	2.78099G	44.04	54.00	-9.96	3	Horizontal	21	1.00	-
927.0MHz	Pass	PK	2.78047G	51.39	74.00	-22.61	3	Horizontal	21	1.00	-

Wi-Sun-50_Nss1_1TX(Port1)

18/05/2020

902.2MHz_TX

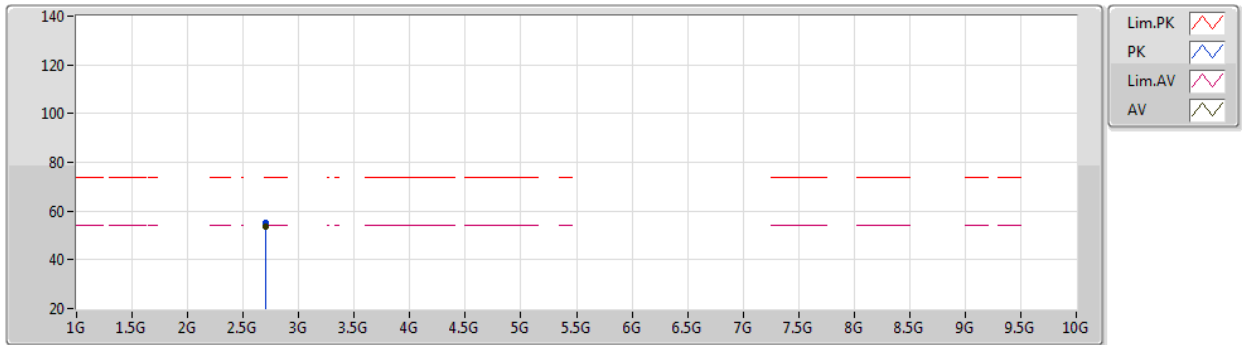


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.70658G	53.15	54.00	-0.85	0.05	3	Vertical	320	1.00	-	53.10	28.03	6.30	34.28
PK	2.70669G	54.71	74.00	-19.29	0.05	3	Vertical	320	1.00	-	54.66	28.03	6.30	34.28

Wi-Sun-50_Nss1_1TX(Port1)

18/05/2020

902.2MHz_TX

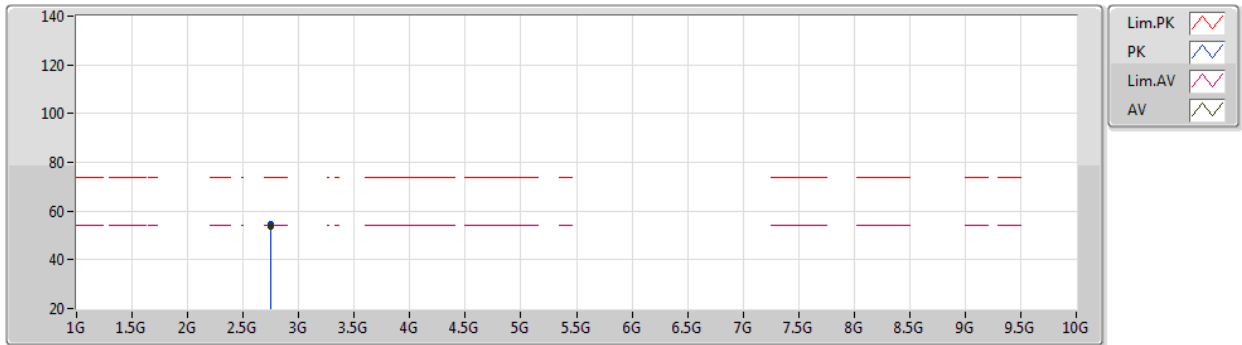


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.7066G	53.60	54.00	-0.40	0.05	3	Horizontal	38	1.86	-	53.55	28.03	6.30	34.28
PK	2.70651G	55.12	74.00	-18.88	0.05	3	Horizontal	38	1.86	-	55.07	28.03	6.30	34.28

Wi-Sun-50_Nss1_1TX(Port1)

18/05/2020

915.0MHz_TX

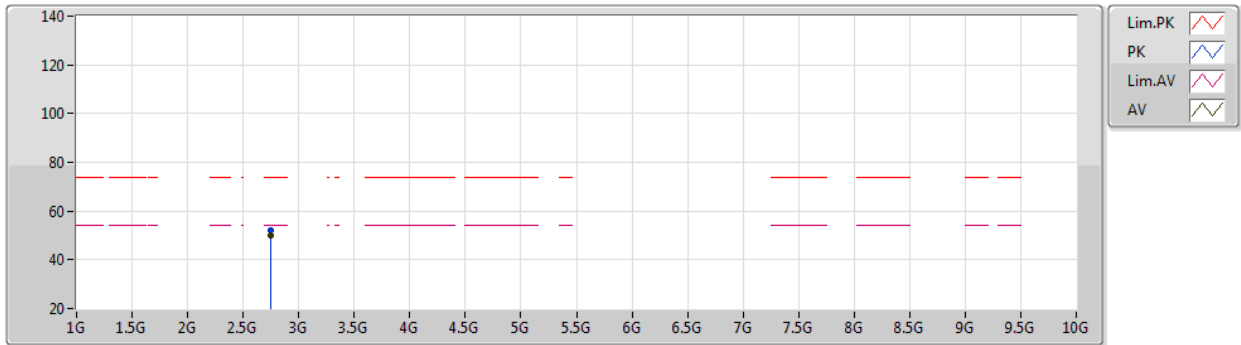


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.745G	53.39	54.00	-0.61	0.17	3	Vertical	330	1.00	-	53.22	28.09	6.34	34.26
PK	2.74511G	54.85	74.00	-19.15	0.17	3	Vertical	330	1.00	-	54.68	28.09	6.34	34.26

Wi-Sun-50_Nss1_1TX(Port1)

18/05/2020

915.0MHz_TX

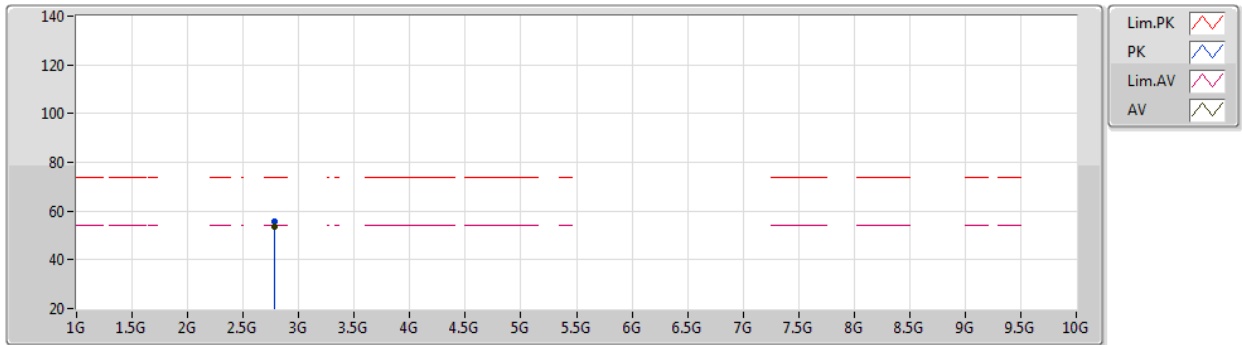


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74499G	50.13	54.00	-3.87	0.17	3	Horizontal	37	1.42	-	49.96	28.09	6.34	34.26
PK	2.74511G	52.07	74.00	-21.93	0.17	3	Horizontal	37	1.42	-	51.90	28.09	6.34	34.26

Wi-Sun-50_Nss1_1TX(Port1)

18/05/2020

927.8MHz_TX

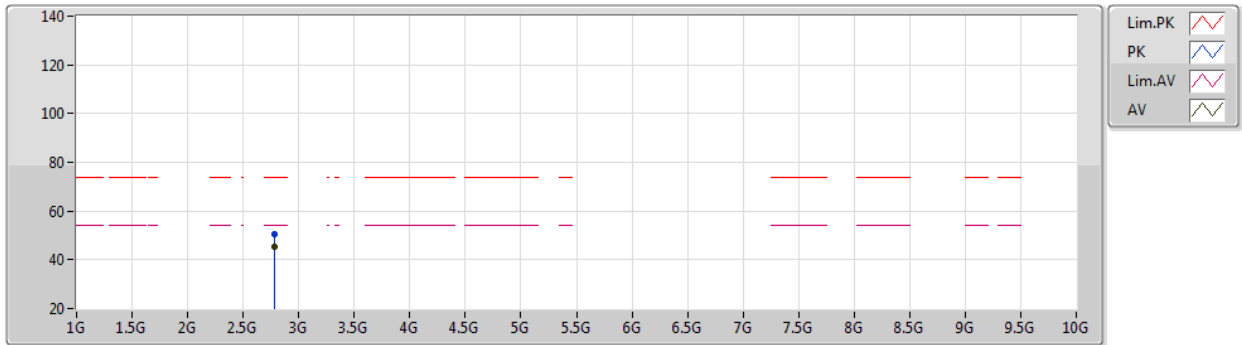


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.78341G	53.50	54.00	-0.50	1.99	3	Vertical	348	1.06	-	51.51	30.33	5.68	34.02
PK	2.78345G	55.85	74.00	-18.15	1.99	3	Vertical	348	1.06	-	53.86	30.33	5.68	34.02

Wi-Sun-50_Nss1_1TX(Port1)

18/05/2020

927.8MHz_TX

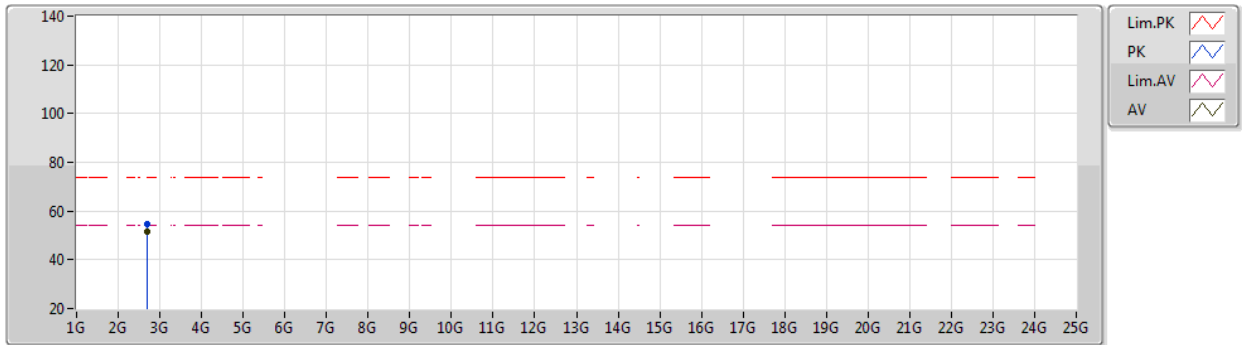


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.78341G	45.09	54.00	-8.91	1.99	3	Horizontal	13	1.00	-	43.10	30.33	5.68	34.02
PK	2.78337G	50.65	74.00	-23.35	1.99	3	Horizontal	13	1.00	-	48.66	30.33	5.68	34.02

Wi-Sun-50_Nss1_1TX(Port2)

19/05/2020

902.2MHz_TX

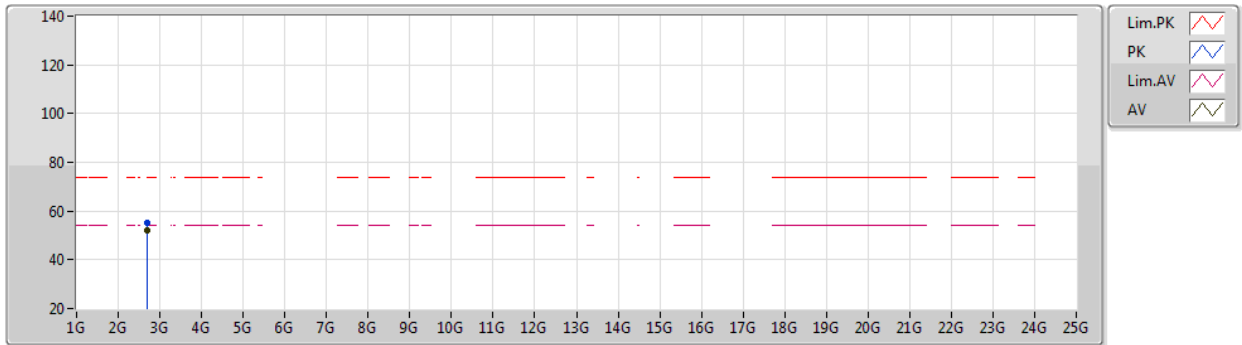


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.70662G	51.73	54.00	-2.27	2.31	3	Vertical	150	1.13	-	49.42	30.75	5.56	34.00
PK	2.7065G	54.61	74.00	-19.39	2.31	3	Vertical	150	1.13	-	52.30	30.75	5.56	34.00

Wi-Sun-50_Nss1_1TX(Port2)

19/05/2020

902.2MHz_TX

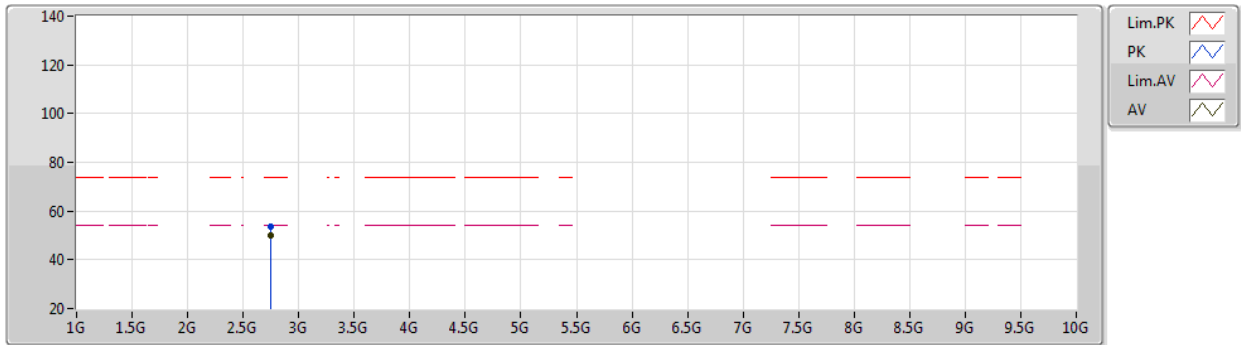


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.70661G	52.15	54.00	-1.85	2.31	3	Horizontal	6	1.01	-	49.84	30.75	5.56	34.00
PK	2.70658G	54.97	74.00	-19.03	2.31	3	Horizontal	6	1.01	-	52.66	30.75	5.56	34.00

Wi-Sun-50_Nss1_1TX(Port2)

19/05/2020

915.0MHz_TX

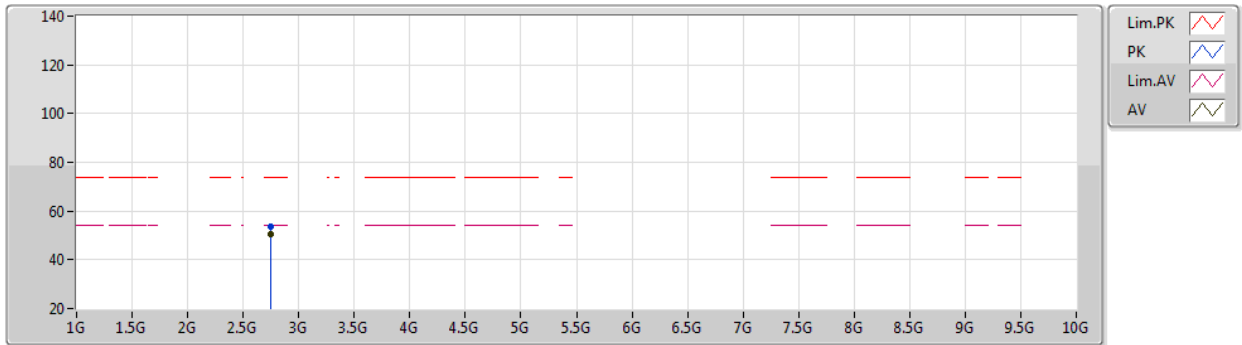


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74501G	49.82	54.00	-4.18	2.05	3	Vertical	174	1.49	-	47.77	30.44	5.62	34.01
PK	2.74503G	53.50	74.00	-20.50	2.05	3	Vertical	174	1.49	-	51.45	30.44	5.62	34.01

Wi-Sun-50_Nss1_1TX(Port2)

19/05/2020

915.0MHz_TX

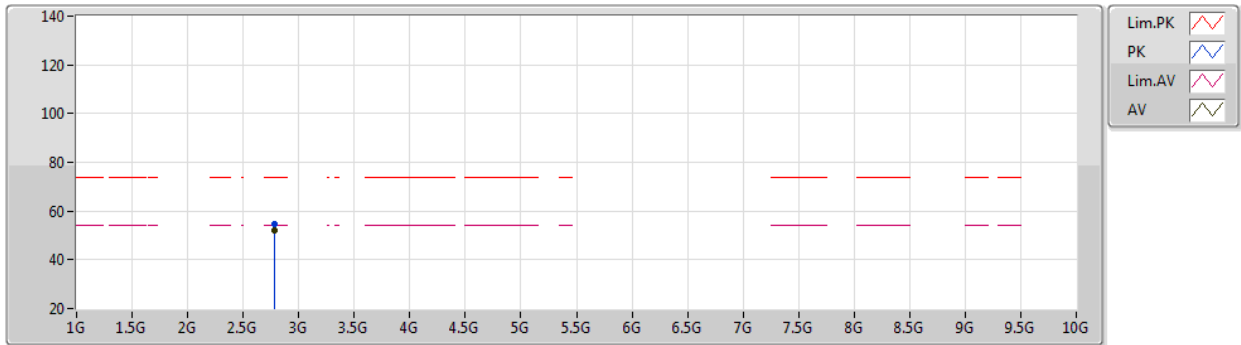


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74502G	50.76	54.00	-3.24	2.05	3	Horizontal	349	1.19	-	48.71	30.44	5.62	34.01
PK	2.74501G	53.60	74.00	-20.40	2.05	3	Horizontal	349	1.19	-	51.55	30.44	5.62	34.01

Wi-Sun-50_Nss1_1TX(Port2)

19/05/2020

927.8MHz_TX

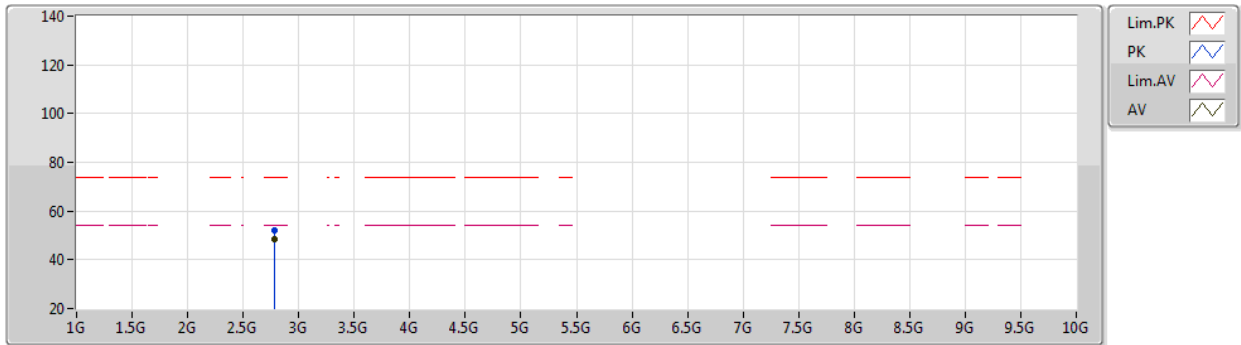


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.78341G	51.93	54.00	-2.07	1.99	3	Vertical	2	1.05	-	49.94	30.33	5.68	34.02
PK	2.78352G	54.45	74.00	-19.55	1.99	3	Vertical	2	1.05	-	52.46	30.33	5.68	34.02

Wi-Sun-50_Nss1_1TX(Port2)

19/05/2020

927.8MHz_TX

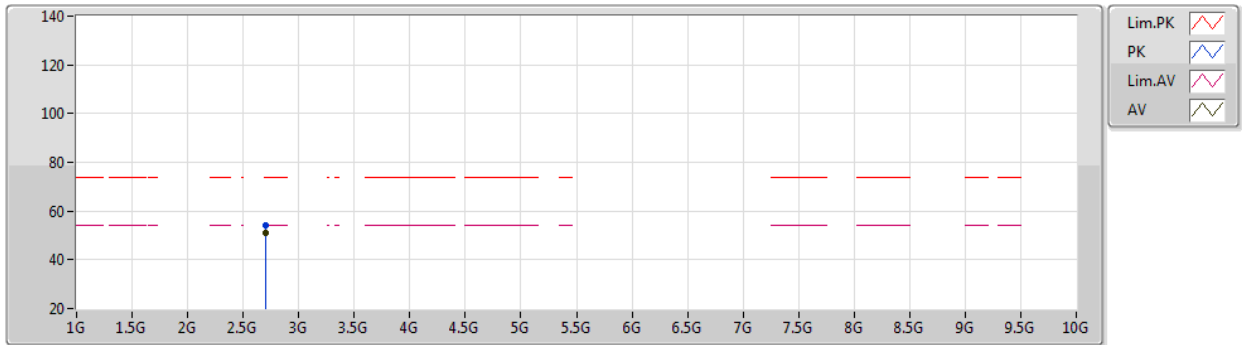


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.78343G	48.35	54.00	-5.65	1.99	3	Horizontal	357	1.00	-	46.36	30.33	5.68	34.02
PK	2.78348G	52.13	74.00	-21.87	1.99	3	Horizontal	357	1.00	-	50.14	30.33	5.68	34.02

Wi-Sun-150_Nss1_1TX(Port1)

18/05/2020

902.4MHz_TX

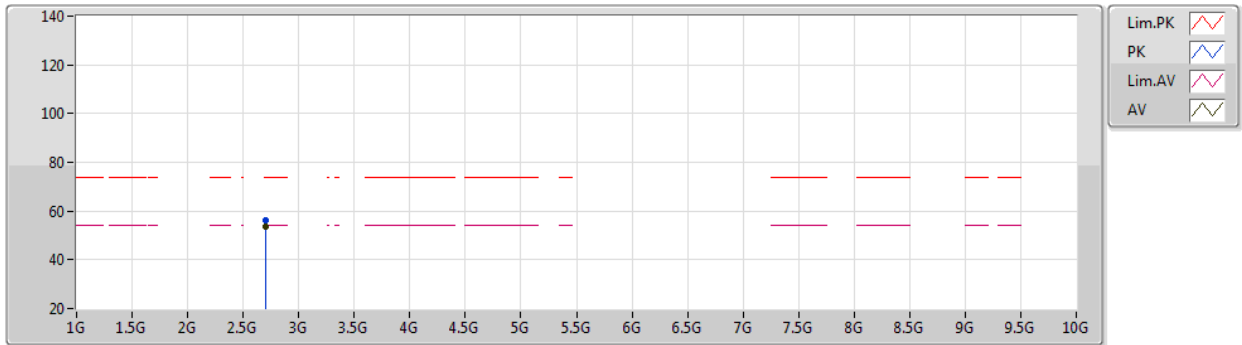


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.70722G	50.86	54.00	-3.14	2.30	3	Vertical	142	1.16	-	48.56	30.74	5.56	34.00
PK	2.70723G	54.05	74.00	-19.95	2.30	3	Vertical	142	1.16	-	51.75	30.74	5.56	34.00

Wi-Sun-150_Nss1_1TX(Port1)

18/05/2020

902.4MHz_TX

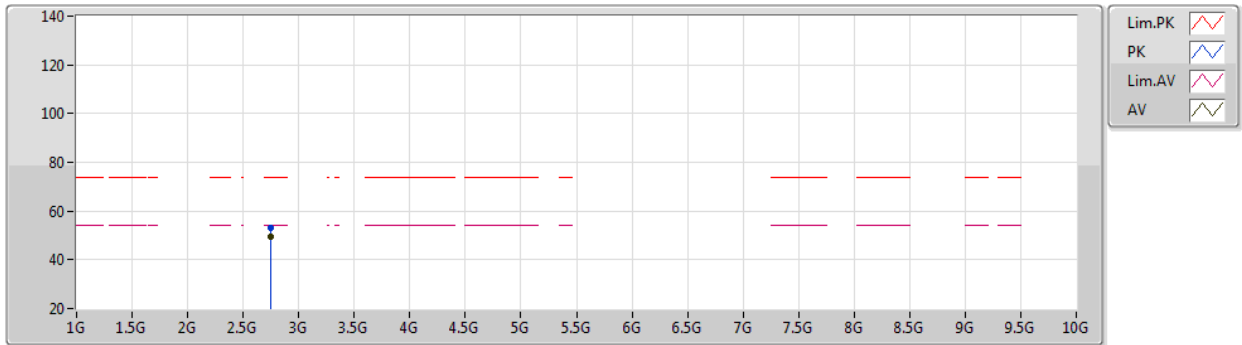


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.70721G	53.46	54.00	-0.54	2.30	3	Horizontal	16	1.00	-	51.16	30.74	5.56	34.00
PK	2.70733G	55.96	74.00	-18.04	2.30	3	Horizontal	16	1.00	-	53.66	30.74	5.56	34.00

Wi-Sun-150_Nss1_1TX(Port1)

18/05/2020

915.2MHz_TX

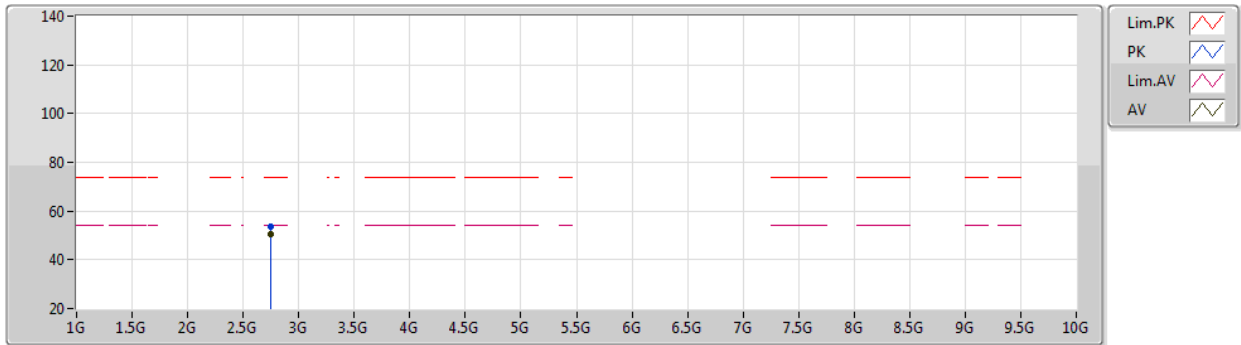


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.7456G	49.74	54.00	-4.26	2.05	3	Vertical	142	1.36	-	47.69	30.44	5.62	34.01
PK	2.74567G	53.29	74.00	-20.71	2.04	3	Vertical	142	1.36	-	51.25	30.43	5.62	34.01

Wi-Sun-150_Nss1_1TX(Port1)

18/05/2020

915.2MHz_TX

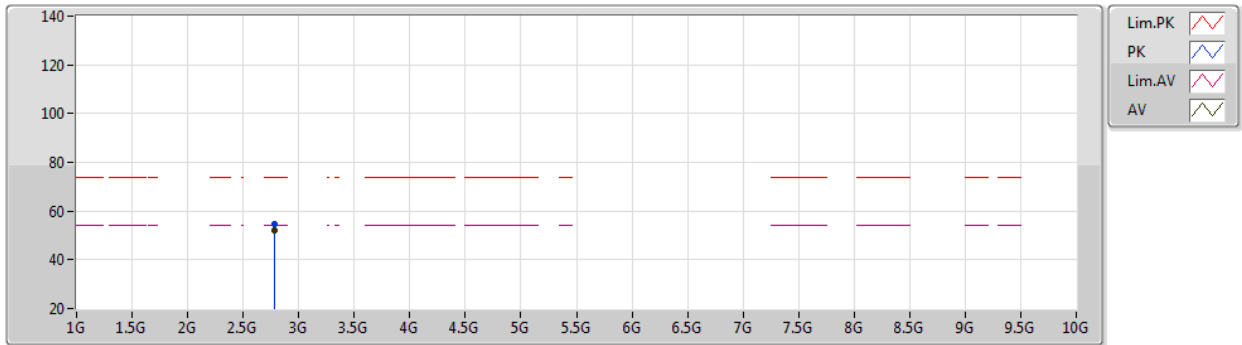


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74562G	50.32	54.00	-3.68	2.05	3	Horizontal	12	1.00	-	48.27	30.44	5.62	34.01
PK	2.74568G	53.55	74.00	-20.45	2.04	3	Horizontal	12	1.00	-	51.51	30.43	5.62	34.01

Wi-Sun-150_Nss1_1TX(Port1)

18/05/2020

927.6MHz_TX

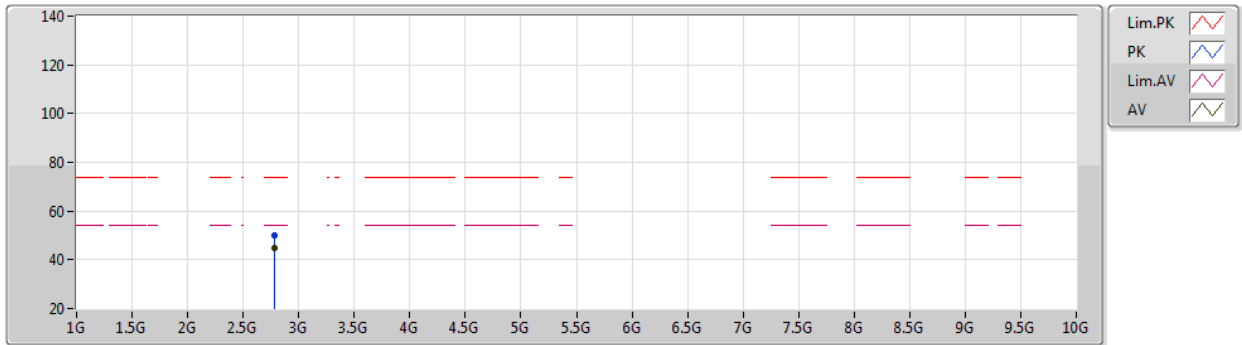


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.78281G	52.20	54.00	-1.80	1.98	3	Vertical	348	1.06	-	50.22	30.33	5.67	34.02
PK	2.78282G	54.91	74.00	-19.09	1.98	3	Vertical	348	1.06	-	52.93	30.33	5.67	34.02

Wi-Sun-150_Nss1_1TX(Port1)

18/05/2020

927.6MHz_TX

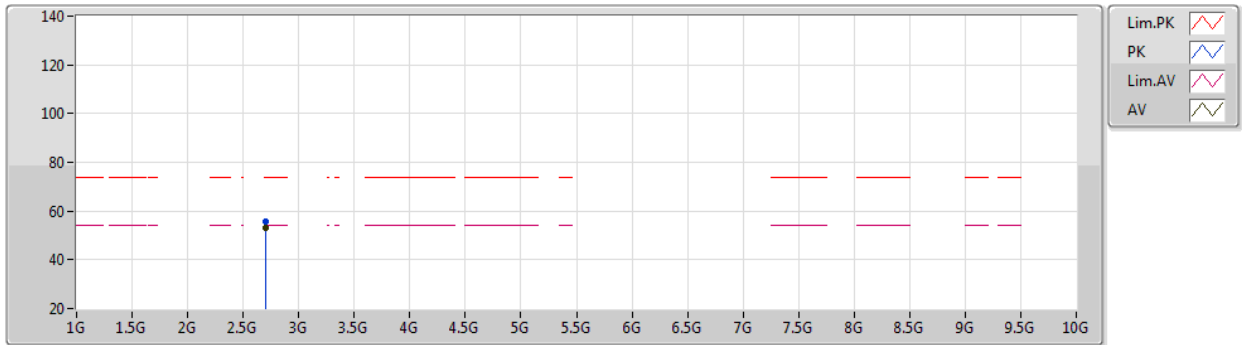


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.78281G	44.90	54.00	-9.10	1.98	3	Horizontal	129	1.00	-	42.92	30.33	5.67	34.02
PK	2.78277G	50.23	74.00	-23.77	1.98	3	Horizontal	129	1.00	-	48.25	30.33	5.67	34.02

Wi-Sun-150_Nss1_1TX(Port2)

19/05/2020

902.4MHz_TX

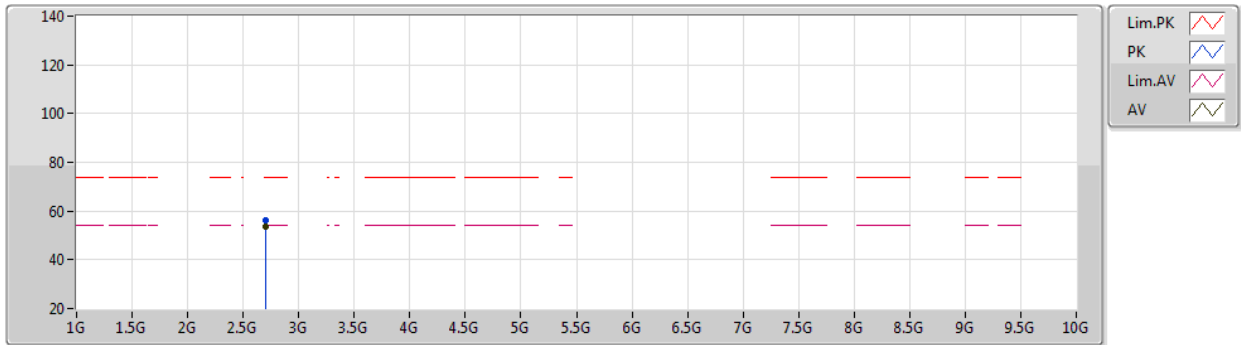


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.70722G	52.91	54.00	-1.09	2.30	3	Vertical	150	1.15	-	50.61	30.74	5.56	34.00
PK	2.70713G	55.73	74.00	-18.27	2.30	3	Vertical	150	1.15	-	53.43	30.74	5.56	34.00

Wi-Sun-150_Nss1_1TX(Port2)

19/05/2020

902.4MHz_TX

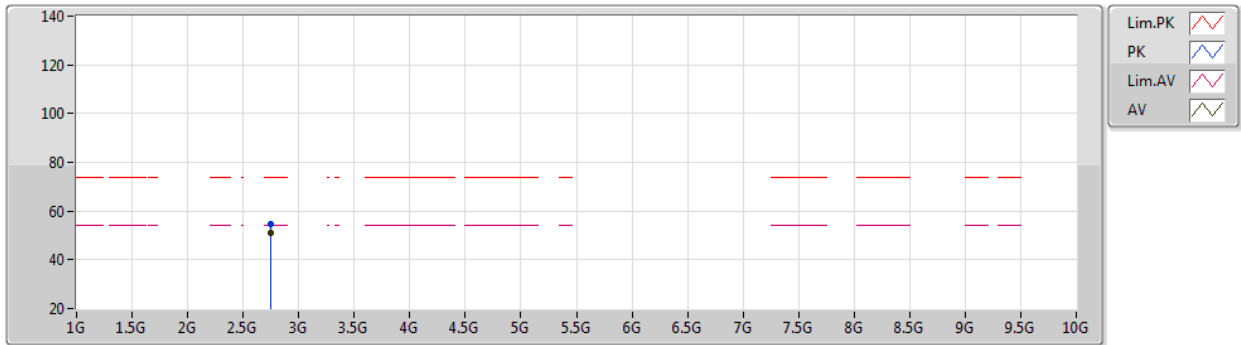


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.70722G	53.59	54.00	-0.41	2.30	3	Horizontal	7	1.00	-	51.29	30.74	5.56	34.00
PK	2.7071G	56.41	74.00	-17.59	2.30	3	Horizontal	7	1.00	-	54.11	30.74	5.56	34.00

Wi-Sun-150_Nss1_1TX(Port2)

19/05/2020

915.2MHz_TX

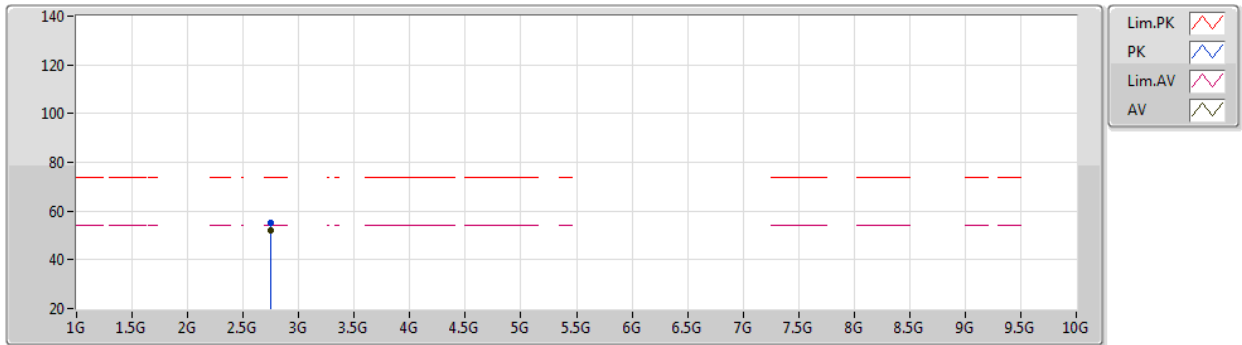


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74561G	51.21	54.00	-2.79	2.05	3	Vertical	176	1.00	-	49.16	30.44	5.62	34.01
PK	2.74545G	54.43	74.00	-19.57	2.05	3	Vertical	176	1.00	-	52.38	30.44	5.62	34.01

Wi-Sun-150_Nss1_1TX(Port2)

19/05/2020

915.2MHz_TX

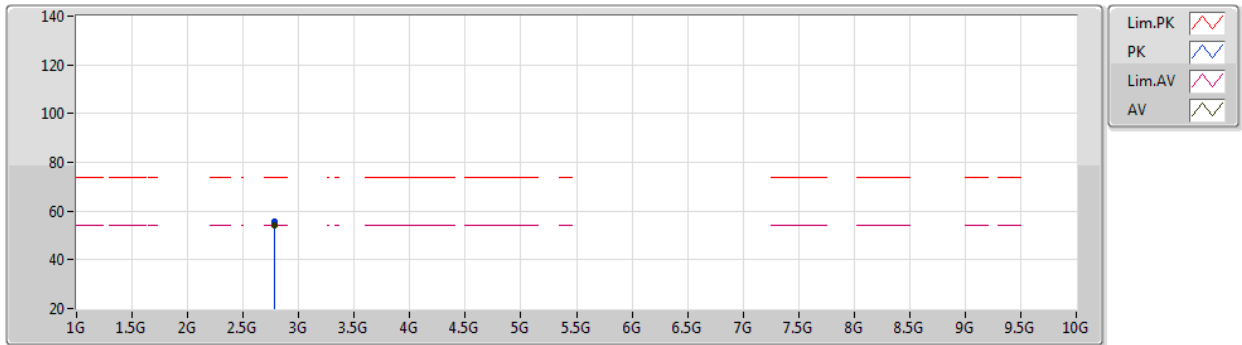


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74561G	52.27	54.00	-1.73	2.05	3	Horizontal	357	1.18	-	50.22	30.44	5.62	34.01
PK	2.74581G	55.43	74.00	-18.57	2.04	3	Horizontal	357	1.18	-	53.39	30.43	5.62	34.01

Wi-Sun-150_Nss1_1TX(Port2)

19/05/2020

927.6MHz_TX

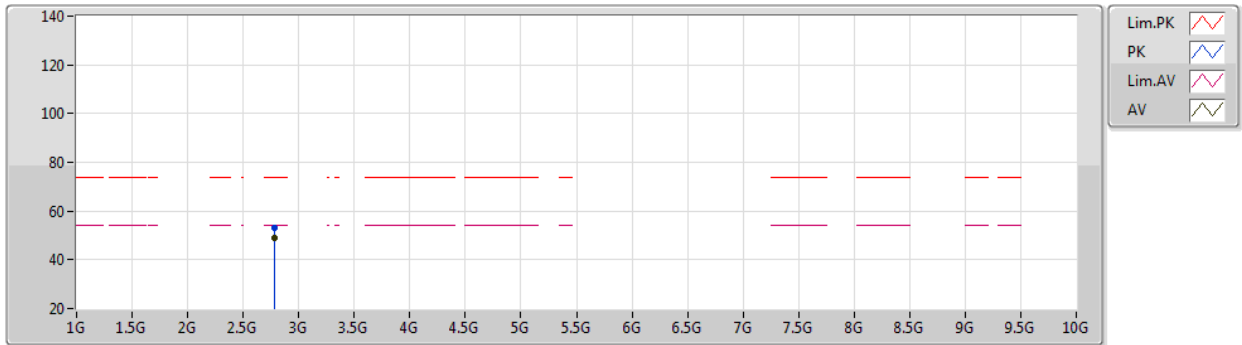


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.78282G	53.89	54.00	-0.11	1.98	3	Vertical	347	1.06	-	51.91	30.33	5.67	34.02
PK	2.78288G	55.90	74.00	-18.10	1.98	3	Vertical	347	1.06	-	53.92	30.33	5.67	34.02

Wi-Sun-150_Nss1_1TX(Port2)

19/05/2020

927.6MHz_TX

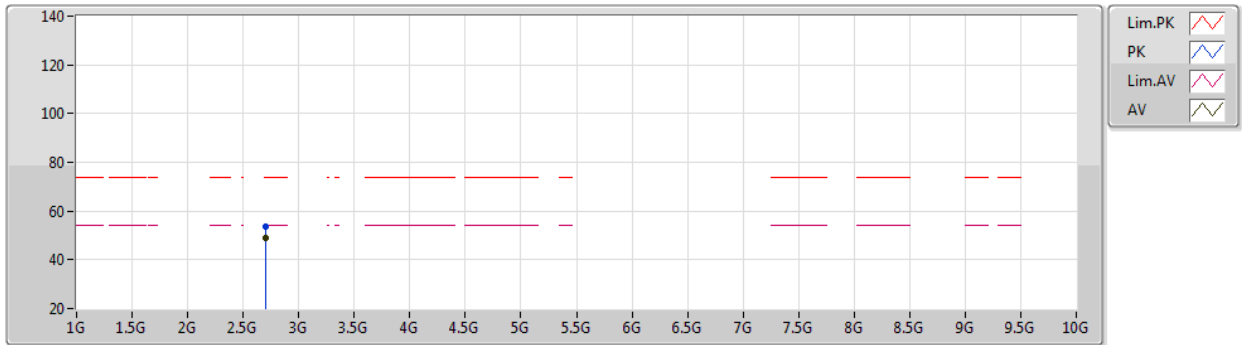


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.78282G	49.18	54.00	-4.82	1.98	3	Horizontal	33	1.00	-	47.20	30.33	5.67	34.02
PK	2.78263G	53.11	74.00	-20.89	1.98	3	Horizontal	33	1.00	-	51.13	30.33	5.67	34.02

Wi-Sun-300_Nss1_1TX(Port1)

18/05/2020

902.6MHz_TX

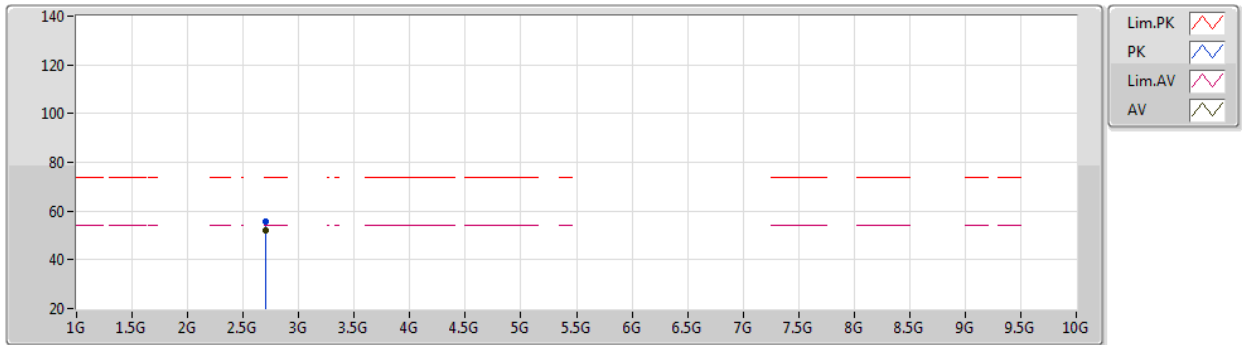


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.70781G	49.17	54.00	-4.83	2.30	3	Vertical	140	1.14	-	46.87	30.74	5.56	34.00
PK	2.70754G	53.56	74.00	-20.44	2.30	3	Vertical	140	1.14	-	51.26	30.74	5.56	34.00

Wi-Sun-300_Nss1_1TX(Port1)

18/05/2020

902.6MHz_TX

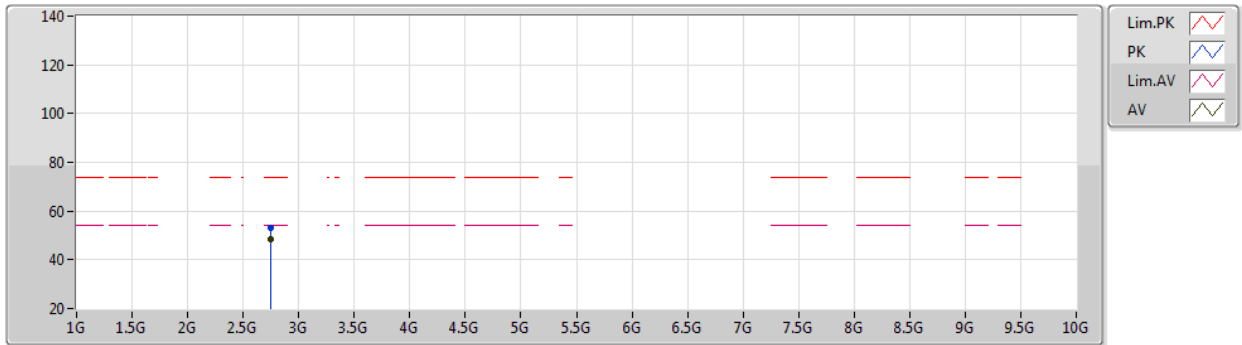


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.7078G	52.13	54.00	-1.87	2.30	3	Horizontal	14	1.01	-	49.83	30.74	5.56	34.00
PK	2.70804G	55.81	74.00	-18.19	2.30	3	Horizontal	14	1.01	-	53.51	30.74	5.56	34.00

Wi-Sun-300_Nss1_1TX(Port1)

18/05/2020

915.2MHz_TX

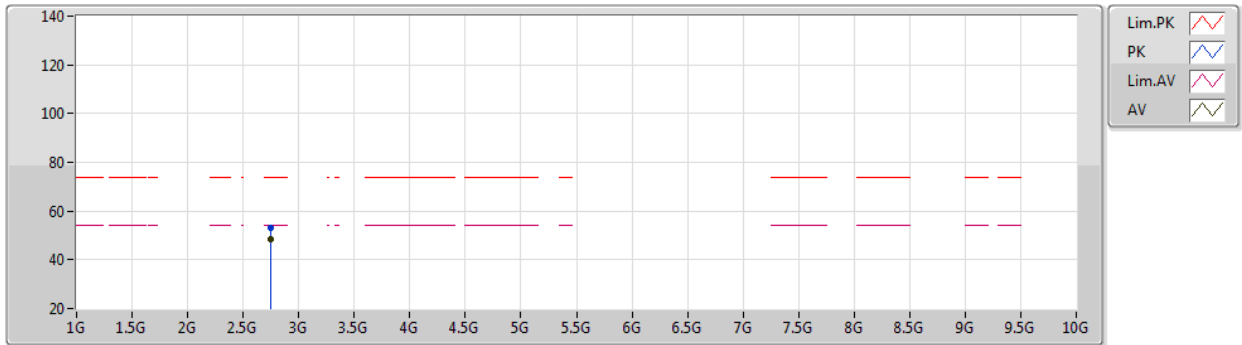


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74561G	48.54	54.00	-5.46	2.05	3	Vertical	314	1.33	-	46.49	30.44	5.62	34.01
PK	2.74586G	53.20	74.00	-20.80	2.04	3	Vertical	314	1.33	-	51.16	30.43	5.62	34.01

Wi-Sun-300_Nss1_1TX(Port1)

18/05/2020

915.2MHz_TX

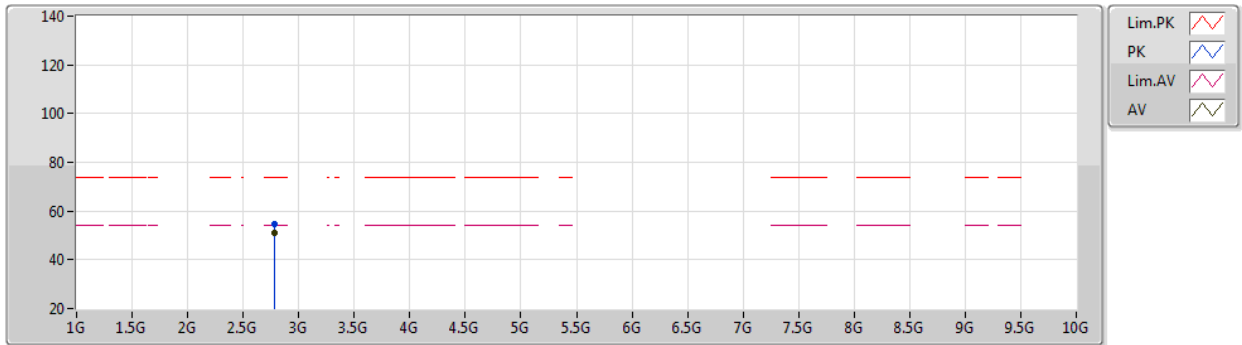


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74561G	48.70	54.00	-5.30	2.05	3	Horizontal	14	1.00	-	46.65	30.44	5.62	34.01
PK	2.74591G	53.12	74.00	-20.88	2.04	3	Horizontal	14	1.00	-	51.08	30.43	5.62	34.01

Wi-Sun-300_Nss1_1TX(Port1)

18/05/2020

927.2MHz_TX

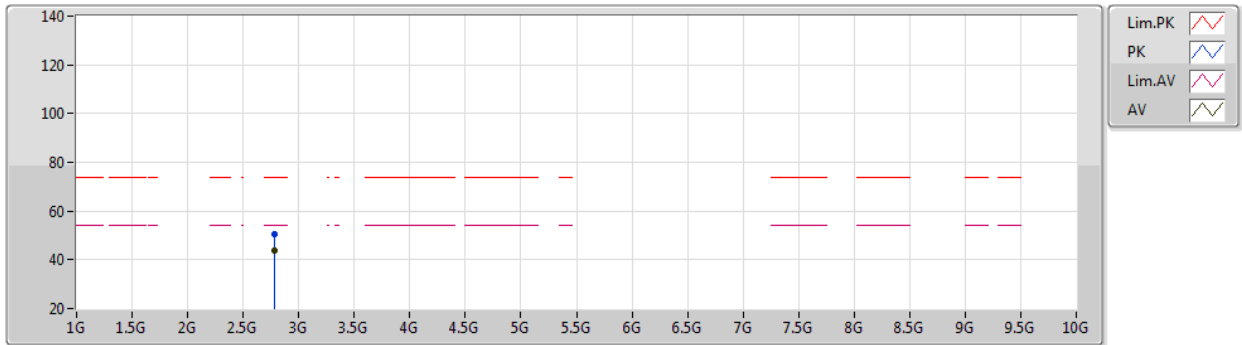


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.7816G	51.07	54.00	-2.93	1.99	3	Vertical	347	1.06	-	49.08	30.34	5.67	34.02
PK	2.78182G	54.82	74.00	-19.18	1.99	3	Vertical	347	1.06	-	52.83	30.34	5.67	34.02

Wi-Sun-300_Nss1_1TX(Port1)

18/05/2020

927.2MHz_TX

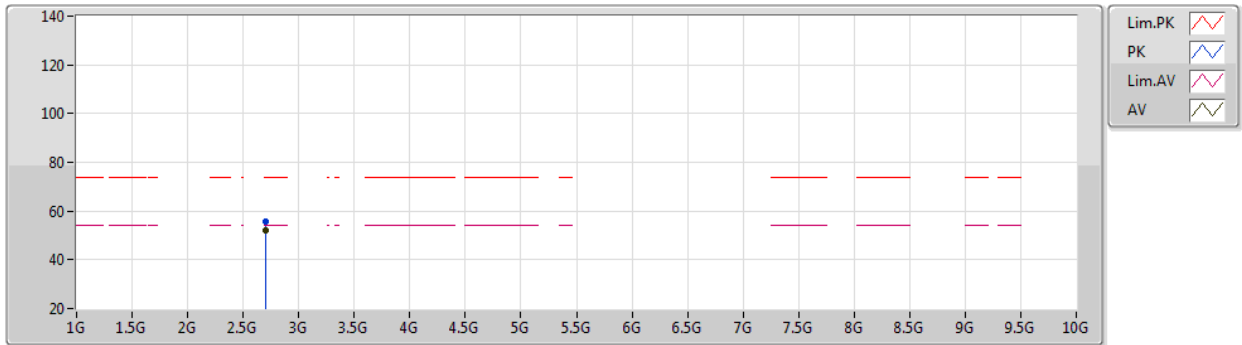


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.7816G	43.56	54.00	-10.44	1.99	3	Horizontal	170	1.22	-	41.57	30.34	5.67	34.02
PK	2.78137G	50.26	74.00	-23.74	1.99	3	Horizontal	170	1.22	-	48.27	30.34	5.67	34.02

Wi-Sun-300_Nss1_1TX(Port2)

19/05/2020

902.6MHz_TX

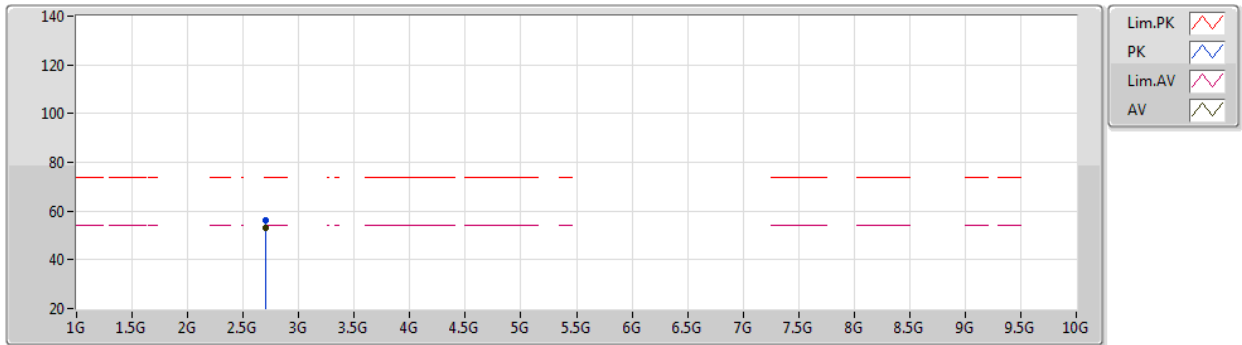


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.7078G	52.01	54.00	-1.99	2.30	3	Vertical	152	1.14	-	49.71	30.74	5.56	34.00
PK	2.70755G	55.87	74.00	-18.13	2.30	3	Vertical	152	1.14	-	53.57	30.74	5.56	34.00

Wi-Sun-300_Nss1_1TX(Port2)

19/05/2020

902.6MHz_TX

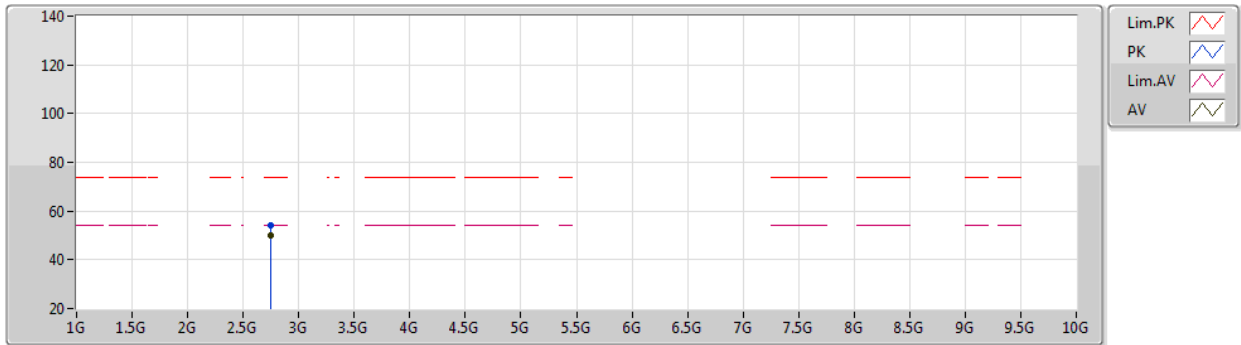


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.70781G	53.01	54.00	-0.99	2.30	3	Horizontal	360	1.00	-	50.71	30.74	5.56	34.00
PK	2.70803G	56.45	74.00	-17.55	2.30	3	Horizontal	360	1.00	-	54.15	30.74	5.56	34.00

Wi-Sun-300_Nss1_1TX(Port2)

19/05/2020

915.2MHz_TX

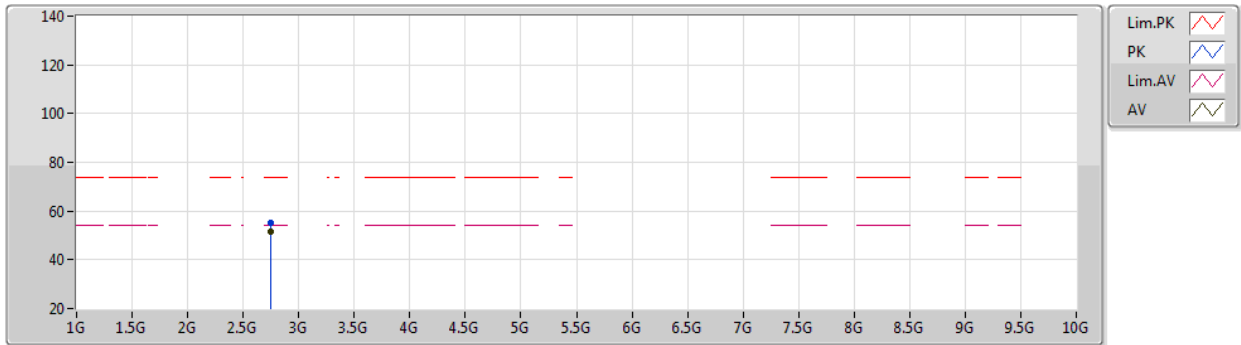


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74562G	49.83	54.00	-4.17	2.05	3	Vertical	177	1.50	-	47.78	30.44	5.62	34.01
PK	2.74583G	54.25	74.00	-19.75	2.04	3	Vertical	177	1.50	-	52.21	30.43	5.62	34.01

Wi-Sun-300_Nss1_1TX(Port2)

19/05/2020

915.2MHz_TX

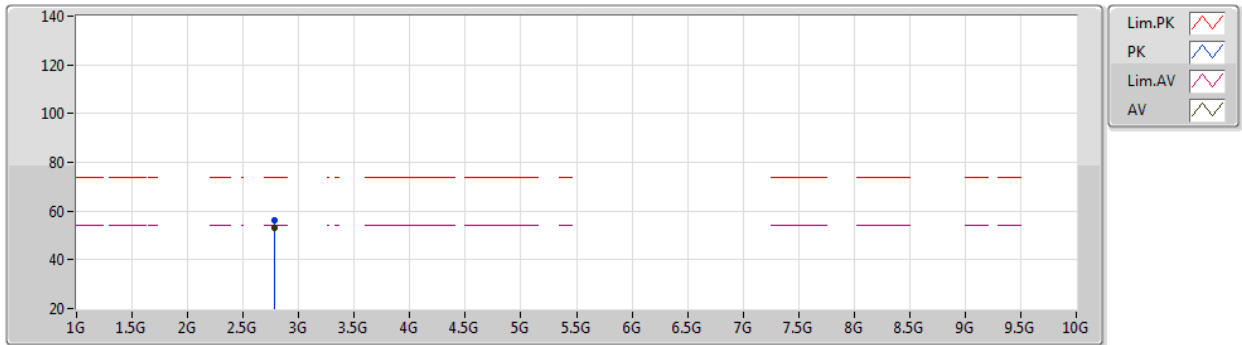


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74561G	51.59	54.00	-2.41	2.05	3	Horizontal	356	1.19	-	49.54	30.44	5.62	34.01
PK	2.74529G	55.30	74.00	-18.70	2.05	3	Horizontal	356	1.19	-	53.25	30.44	5.62	34.01

Wi-Sun-300_Nss1_1TX(Port2)

19/05/2020

927.2MHz_TX

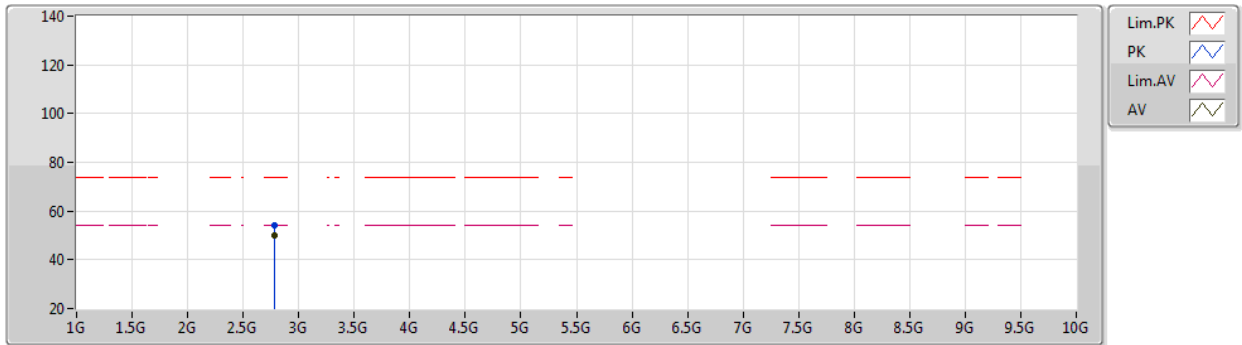


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.78161G	52.97	54.00	-1.03	1.99	3	Vertical	347	1.05	-	50.98	30.34	5.67	34.02
PK	2.78144G	56.33	74.00	-17.67	1.99	3	Vertical	347	1.05	-	54.34	30.34	5.67	34.02

Wi-Sun-300_Nss1_1TX(Port2)

19/05/2020

927.2MHz_TX

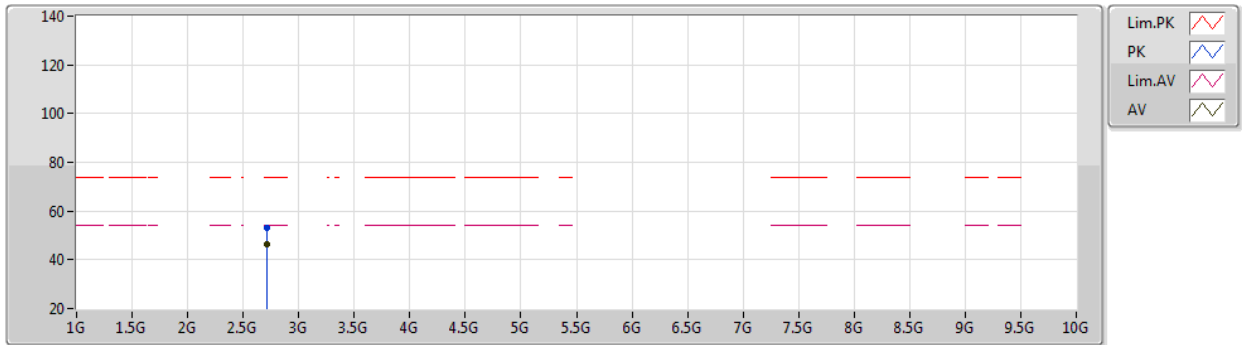


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.78161G	50.07	54.00	-3.93	1.99	3	Horizontal	346	1.94	-	48.08	30.34	5.67	34.02
PK	2.78151G	53.96	74.00	-20.04	1.99	3	Horizontal	346	1.94	-	51.97	30.34	5.67	34.02

Wi-Sun-600_Nss1_1TX(Port1)

18/05/2020

903.0MHz_TX

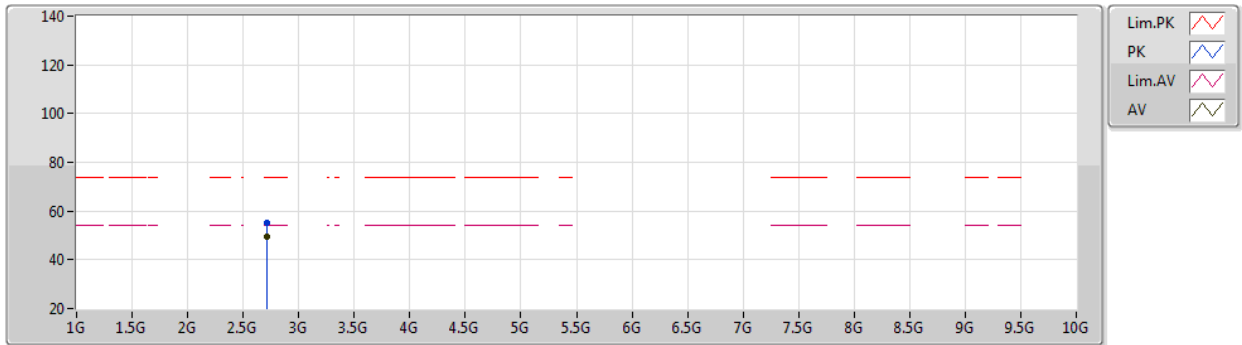


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.70902G	46.43	54.00	-7.57	2.29	3	Vertical	141	1.39	-	44.14	30.73	5.56	34.00
PK	2.70924G	52.92	74.00	-21.08	2.29	3	Vertical	141	1.39	-	50.63	30.73	5.56	34.00

Wi-Sun-600_Nss1_1TX(Port1)

18/05/2020

903.0MHz_TX

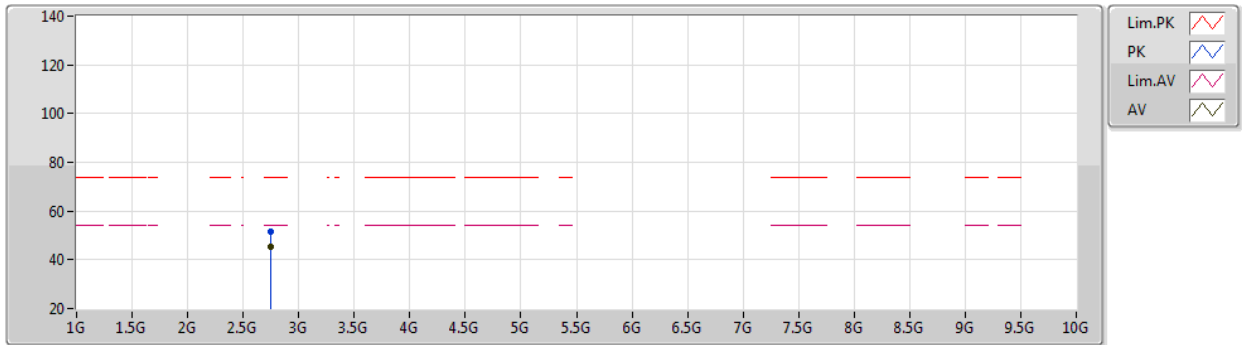


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.70901G	49.26	54.00	-4.74	2.29	3	Horizontal	13	1.01	-	46.97	30.73	5.56	34.00
PK	2.70876G	55.02	74.00	-18.98	2.29	3	Horizontal	13	1.01	-	52.73	30.73	5.56	34.00

Wi-Sun-600_Nss1_1TX(Port1)

18/05/2020

915.0MHz_TX

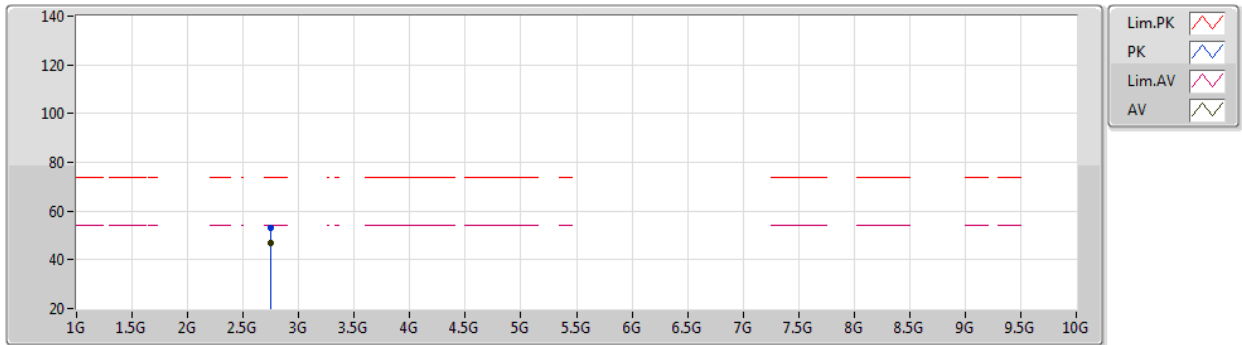


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74502G	45.43	54.00	-8.57	2.05	3	Vertical	141	1.37	-	43.38	30.44	5.62	34.01
PK	2.74469G	51.59	74.00	-22.41	2.05	3	Vertical	141	1.46	-	49.54	30.44	5.62	34.01

Wi-Sun-600_Nss1_1TX(Port1)

18/05/2020

915.0MHz_TX

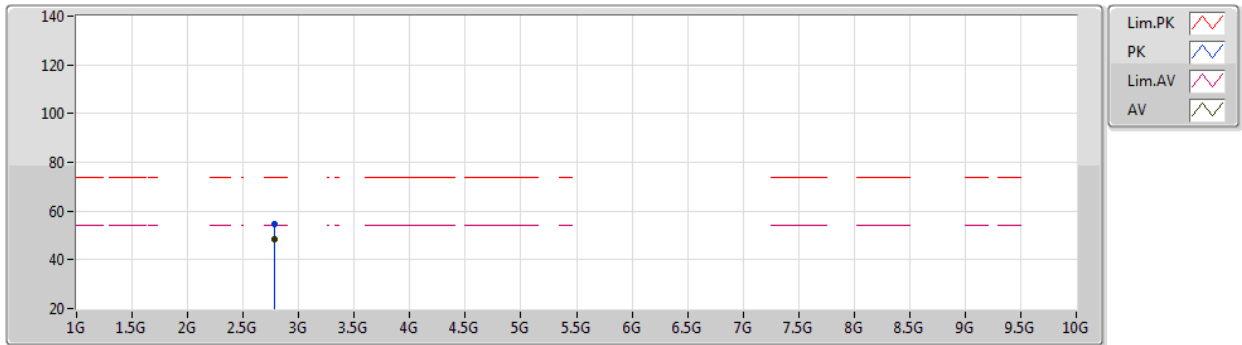


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.745G	46.67	54.00	-7.33	2.05	3	Horizontal	13	1.00	-	44.62	30.44	5.62	34.01
PK	2.74527G	53.02	74.00	-20.98	2.05	3	Horizontal	13	1.00	-	50.97	30.44	5.62	34.01

Wi-Sun-600_Nss1_1TX(Port1)

18/05/2020

927.0MHz_TX

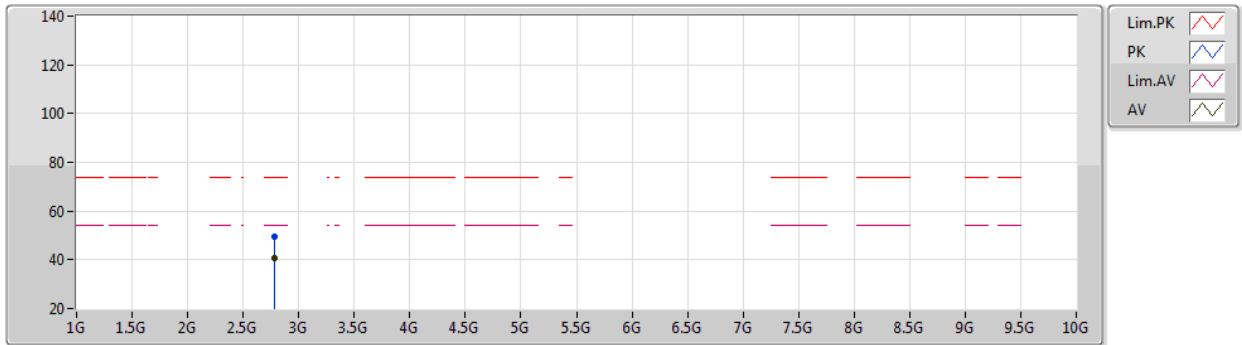


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.781G	48.56	54.00	-5.44	1.99	3	Vertical	349	1.05	-	46.57	30.34	5.67	34.02
PK	2.78071G	54.51	74.00	-19.49	1.99	3	Vertical	349	1.05	-	52.52	30.34	5.67	34.02

Wi-Sun-600_Nss1_1TX(Port1)

18/05/2020

927.0MHz_TX

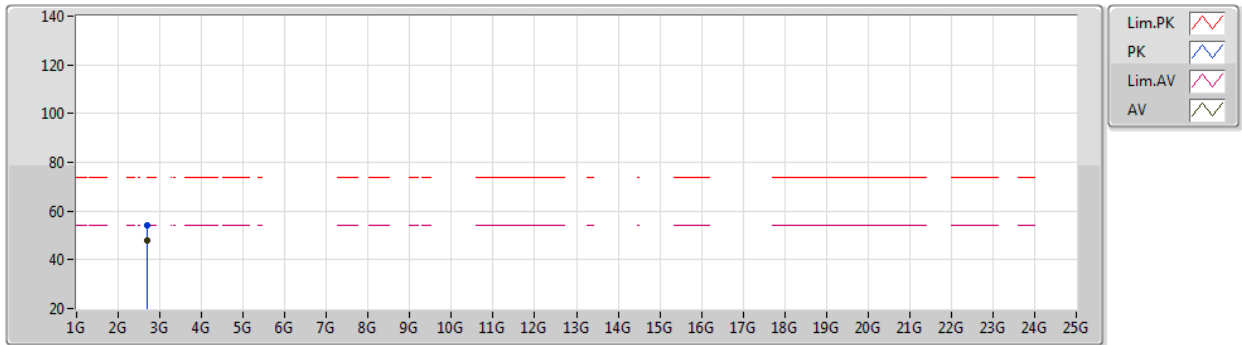


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.781G	40.93	54.00	-13.07	1.99	3	Horizontal	11	1.00	-	38.94	30.34	5.67	34.02
PK	2.78062G	49.42	74.00	-24.58	1.99	3	Horizontal	11	1.00	-	47.43	30.34	5.67	34.02

Wi-Sun-600_Nss1_1TX(Port2)

19/05/2020

903.0MHz_TX

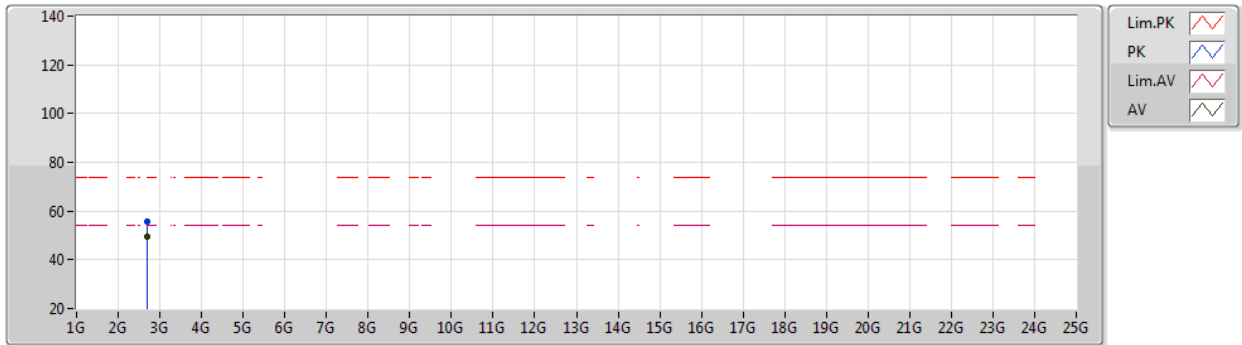


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.709G	48.11	54.00	-5.89	2.29	3	Vertical	150	1.13	-	45.82	30.73	5.56	34.00
PK	2.70946G	54.27	74.00	-19.73	2.28	3	Vertical	150	1.13	-	51.99	30.72	5.56	34.00

Wi-Sun-600_Nss1_1TX(Port2)

19/05/2020

903.0MHz_TX

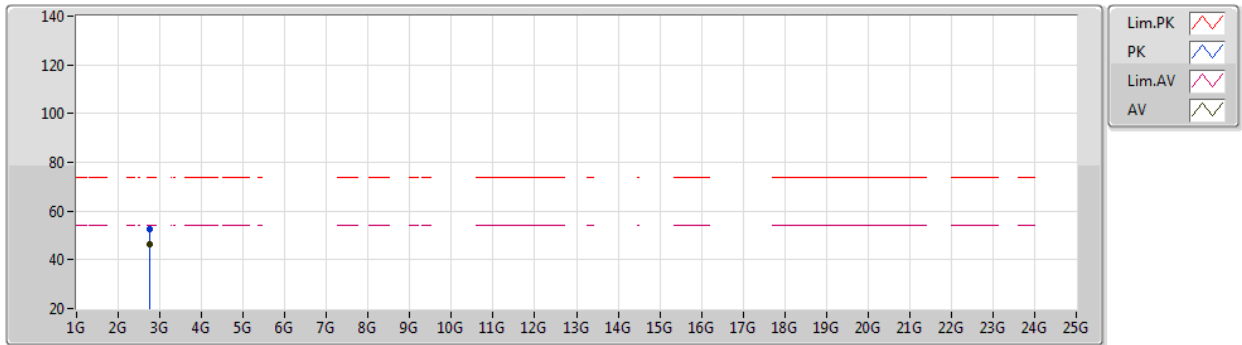


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.70901G	49.69	54.00	-4.31	2.29	3	Horizontal	7	1.00	-	47.40	30.73	5.56	34.00
PK	2.70862G	55.48	74.00	-18.52	2.29	3	Horizontal	7	1.00	-	53.19	30.73	5.56	34.00

Wi-Sun-600_Nss1_1TX(Port2)

19/05/2020

915.0MHz_TX

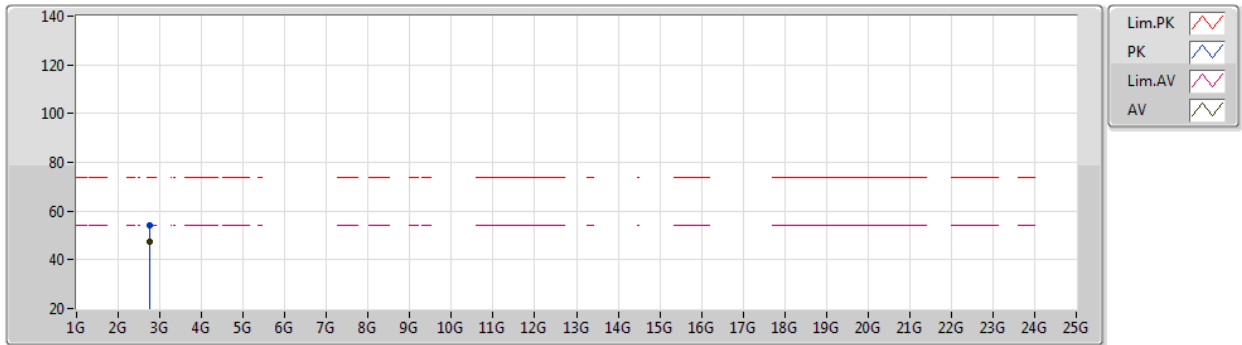


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74502G	46.23	54.00	-7.77	2.05	3	Vertical	178	1.00	-	44.18	30.44	5.62	34.01
PK	2.74474G	52.78	74.00	-21.22	2.05	3	Vertical	178	1.00	-	50.73	30.44	5.62	34.01

Wi-Sun-600_Nss1_1TX(Port2)

19/05/2020

915.0MHz_TX

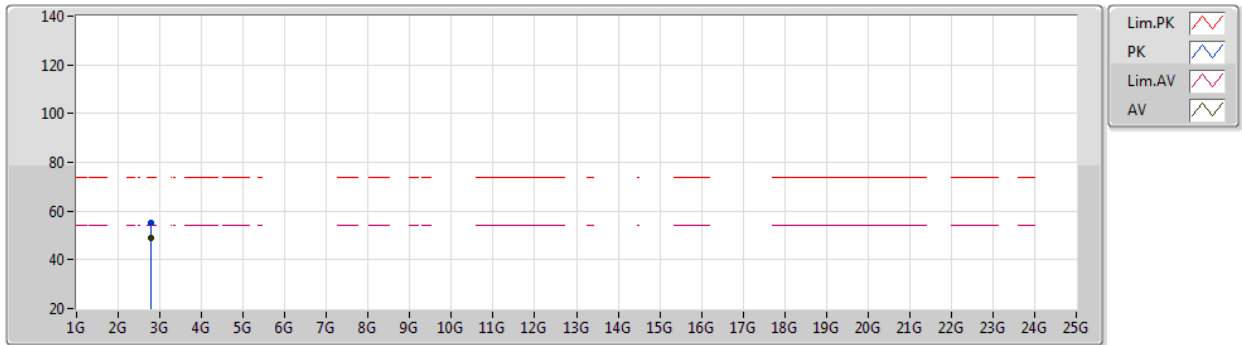


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74499G	47.57	54.00	-6.43	2.05	3	Horizontal	1	1.20	-	45.52	30.44	5.62	34.01
PK	2.74537G	53.96	74.00	-20.04	2.05	3	Horizontal	1	1.20	-	51.91	30.44	5.62	34.01

Wi-Sun-600_Nss1_1TX(Port2)

19/05/2020

927.0MHz_TX

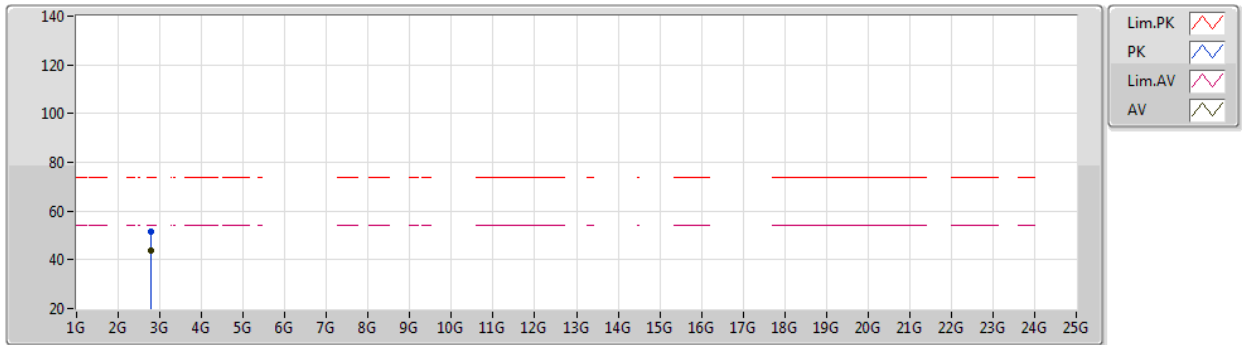


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.78102G	48.94	54.00	-5.06	1.99	3	Vertical	348	1.09	-	46.95	30.34	5.67	34.02
PK	2.7806G	55.07	74.00	-18.93	1.99	3	Vertical	348	1.09	-	53.08	30.34	5.67	34.02

Wi-Sun-600_Nss1_1TX(Port2)

19/05/2020

927.0MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.78099G	44.04	54.00	-9.96	1.99	3	Horizontal	21	1.00	-	42.05	30.34	5.67	34.02
PK	2.78047G	51.39	74.00	-22.61	1.99	3	Horizontal	21	1.00	-	49.40	30.34	5.67	34.02