

FCC Test Report

FCC ID : VUI-DPCP700X
Equipment : IP Desktop Phone
Brand Name : Unify
Model Name : OpenScape Desk Phone CP700X
Applicant : PEGATRON CORPORATION
5F., NO. 76, LIGONG ST., BEITOU
DISTRICT, TAIPEI CITY 11259 Taiwan
Manufacturer : PEGATRON CORPORATION
5F., NO. 76, LIGONG ST., BEITOU
DISTRICT, TAIPEI CITY 11259 Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 12, 2020, and testing was started from Mar. 22, 2020 and completed on Apr. 18, 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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PHOTOGRAPHS OF EUT V01



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)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and explanations:
None

Reviewed by: Sam Tsai

Report Producer: Michelle Tsai

1 General Description

1.1 Information

The EUT in the client mode it can support full band, in the master mode it can support band 1 & 4.

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g and HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	-	-	Printed	N/A

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	1	3.37	2.59	3.37

Note 1: The EUT has one antenna.

For 2.4GHz function:

For IEEE 802.11 b/g/n mode (1TX/1RX)

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

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

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

For 5GHz function:

For IEEE 802.11 a/n/ac mode (1TX/1RX)

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



1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter / PoE			
EUT Function	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Beamforming Function	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/>	Without beamforming
Type of EUT				
<input checked="" type="checkbox"/>	Stand-alone			
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.:		...	
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.:		...	
<input type="checkbox"/>	Other:			

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b_Nss1,(1Mbps)_1TX	0.991	0.04	8.418m	10
802.11g_Nss1,(6Mbps)_1TX	0.932	0.31	1.398m	1k
802.11n HT20_Nss1,(MCS0)_1TX	0.929	0.32	1.309m	1k

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

1.2 Testing Applied Standards

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

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

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

- ◆ KDB 558074 D01 v05r02
- ◆ KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location		
<input checked="" type="checkbox"/>	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.		
<input type="checkbox"/>	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.		
<input type="checkbox"/>	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 Wang	21.4~22.5°C / 58~62%	23/Mar/2020~18/Apr/2020
RF Conducted	TH06-HY	Edward Wang	20.1~24.2°C / 57~63%	23/Mar/2020~25/Mar/2020
Radiated	03CH03-HY	Jeff Lin	21.4~25.5°C / 51~61%	22/Mar/2020~16/Apr/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	120V

2.2 Test Channel Mode




Test Software	DoS
---------------	-----

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	16
2437MHz	15
2462MHz	15
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	12
2417MHz	13
2437MHz	16
2457MHz	14
2462MHz	12
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	13
2417MHz	14
2437MHz	16
2457MHz	15
2462MHz	13

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	Adapter Mode
2	PoE Mode

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Adapter Mode		
2	PoE Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V



2.4 Accessories

Accessories		
4P4C Cable	Power Cord	4.0 meter, Non-shielded cable

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

2.5 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PoE	CERIO	POE-S48G2	DoC	Note 1
2	Adapter for PoE	L.T.E	LTE36ES-S5-1	DoC	
3	AC Adapter	Salom Electric	S30122-H7726-X	DoC	

Note 1: Support equipment was provided by customer.

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PoE (Remote)	CERIO	POE-S48G2	DoC	Note 1
2	Adapter for PoE (Remote)	L.T.E	LTE36ES-S5-1	DoC	
3	AC Adapter	Salom Electric	S30122-H7726-X	DoC	

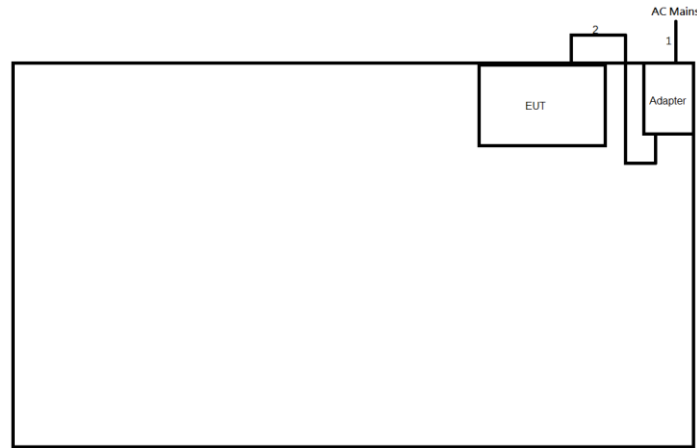
Note 1: Support equipment was provided by customer.

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

Note 1: Support equipment was provided by customer.

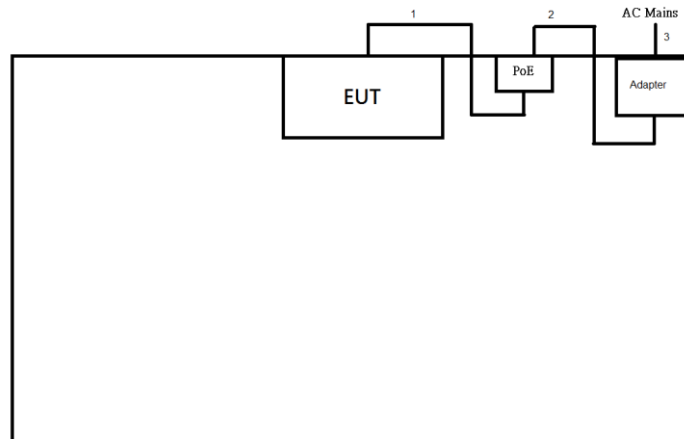
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (Adapter Mode)



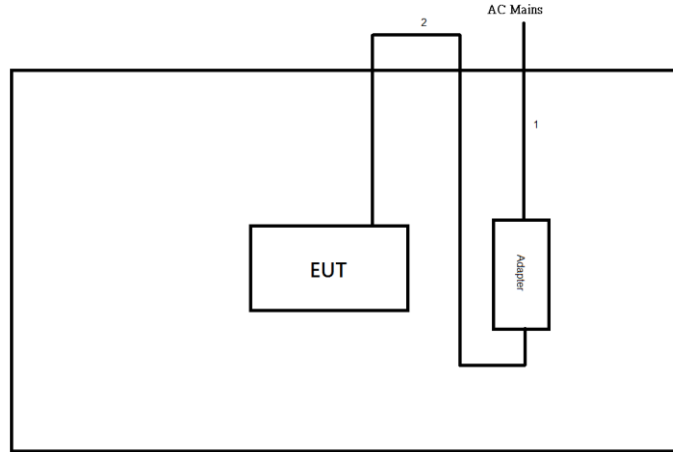
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.5	-
2	RJ-11 Cable	No	2.0	-

Test Setup Diagram – AC Line Conducted Emission Test (PoE Mode)



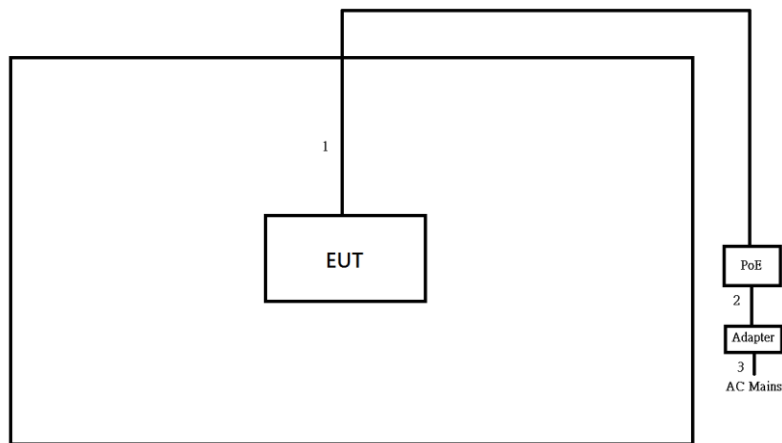
Item	Connection	Shielded	Length(m)	Remark
1	RJ45 cable	No	1.0	-
2	DC Power cable	No	1.8	-
3	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (Adapter Mode)



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.5	-
2	RJ-11 Cable	No	2.0	-

Test Setup Diagram - Radiated Test (PoE Mode)



Item	Connection	Shielded	Length(m)	Remark
1	RJ45 cable	No	1.0	-
2	DC Power cable	No	1.8	-
3	AC Power cable	No	1.8	-



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.

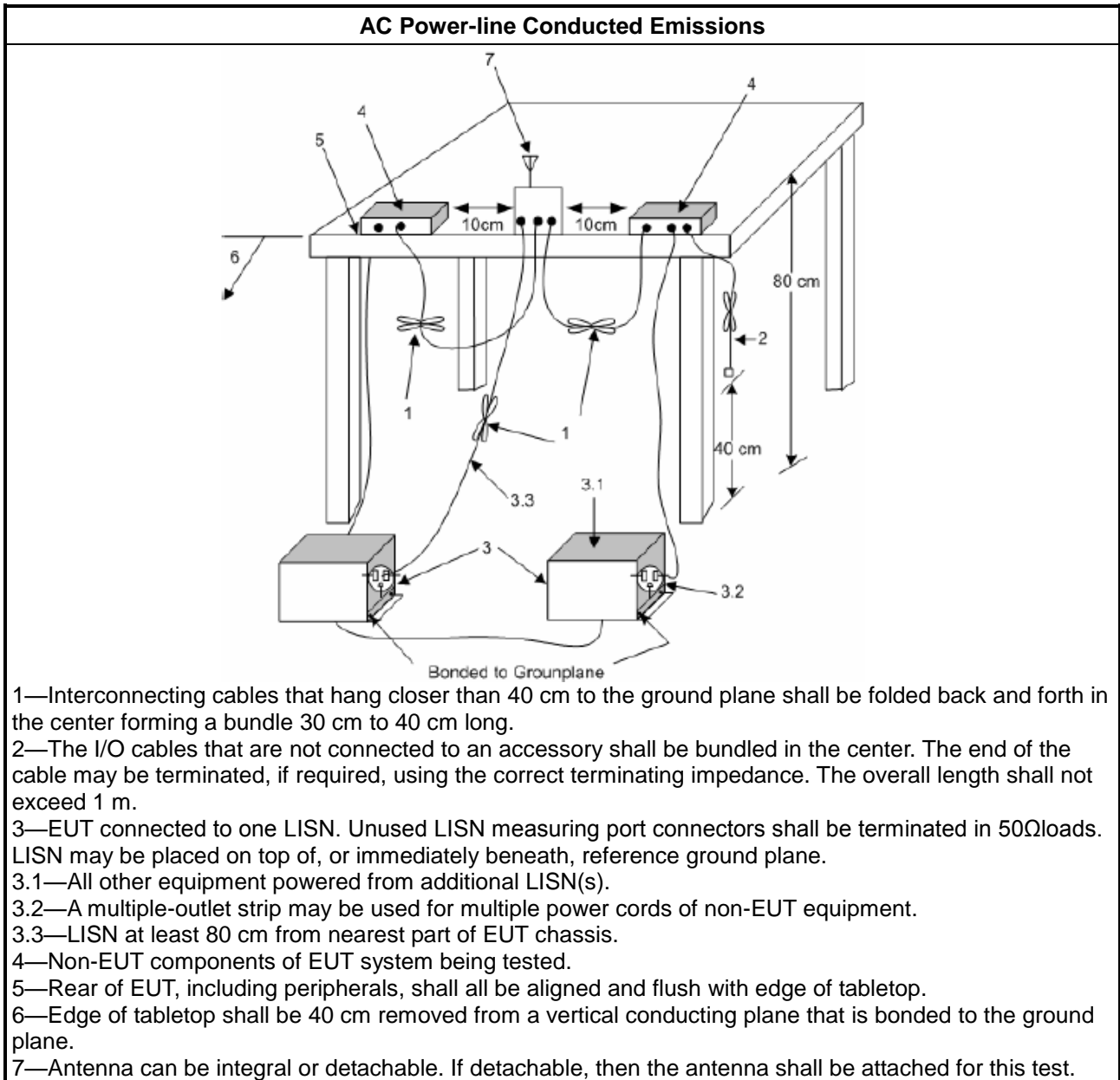
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> 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 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

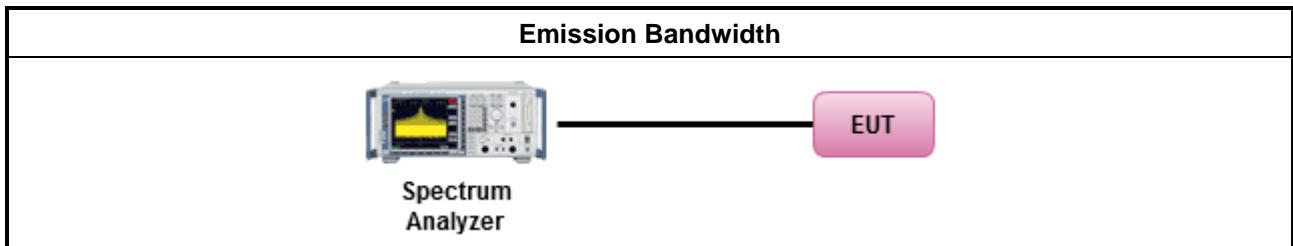
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
<input type="checkbox"/> Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS)
	<ul style="list-style-type: none"> - Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
<p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

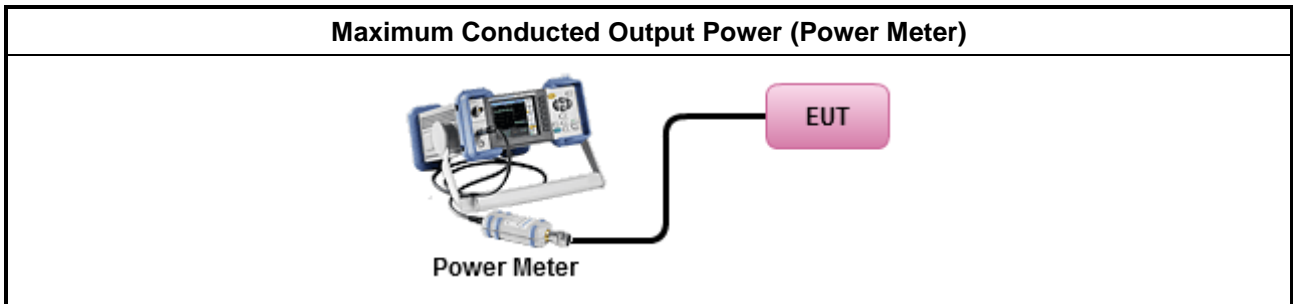
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> ▪ Maximum Average Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> Power Spectral Density (PSD) \leq 8 dBm/3kHz

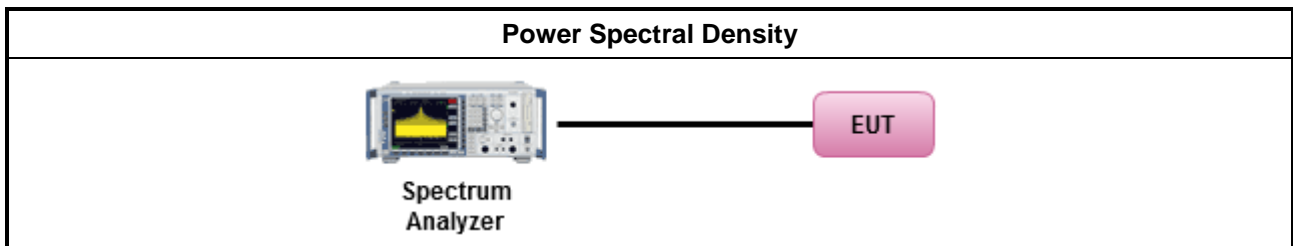
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> 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).
<input checked="" type="checkbox"/> Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
<ul style="list-style-type: none"> For conducted measurement. <ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak 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.

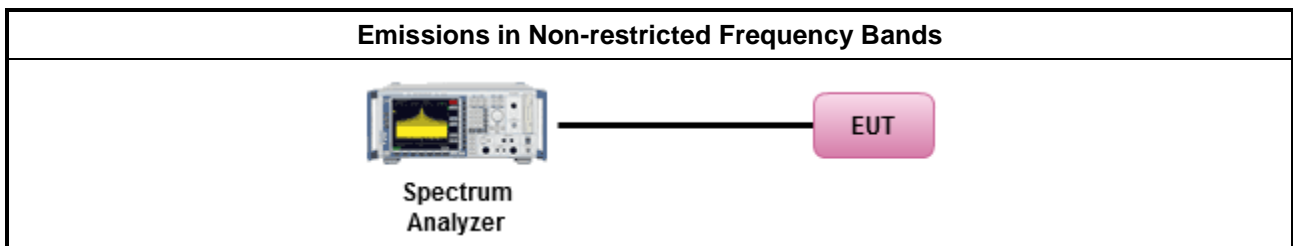
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

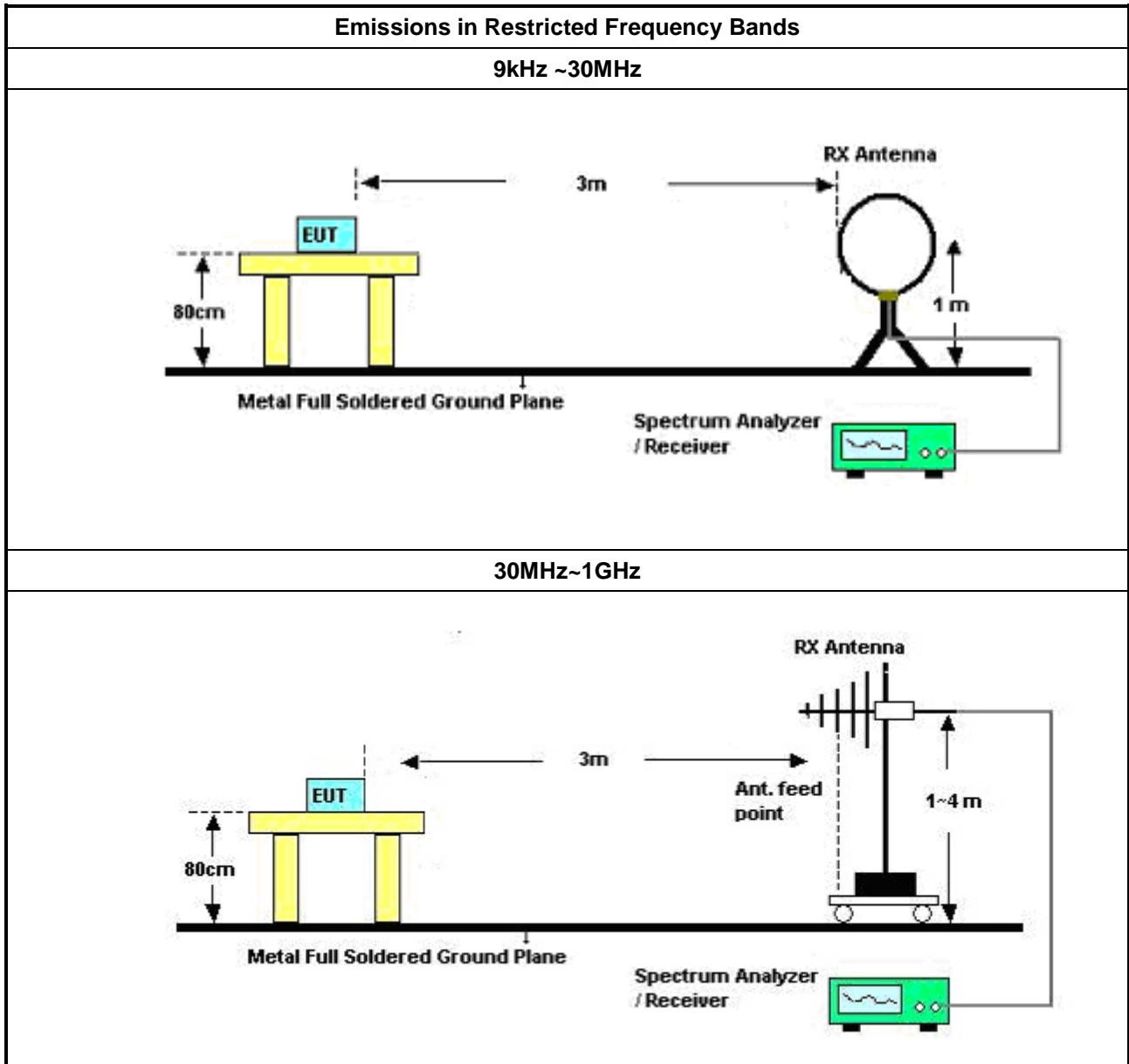
Refer a test equipment and calibration data table in this test report.

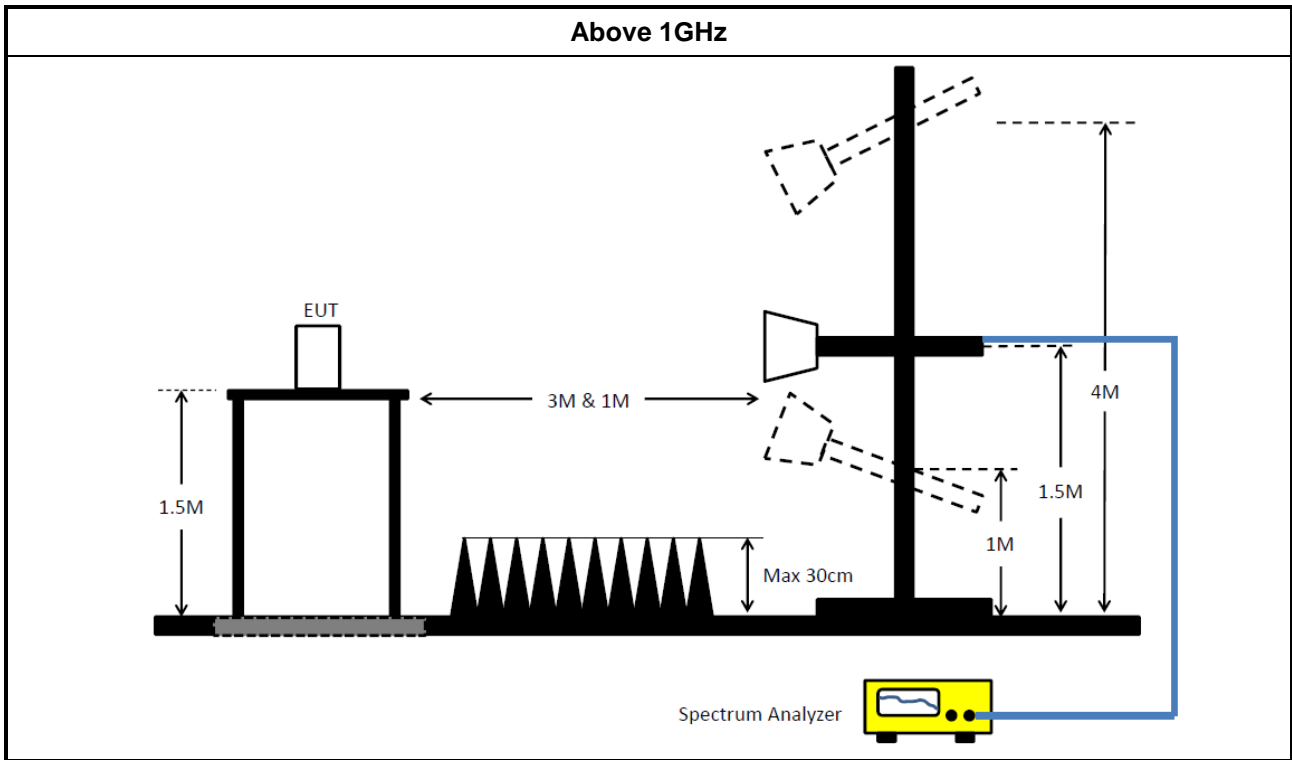


3.6.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
	<ul style="list-style-type: none"> 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.
	<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below:
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	<ul style="list-style-type: none"> For the transmitter band-edge emissions shall be measured using following options below:
	<ul style="list-style-type: none"> Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
	<ul style="list-style-type: none"> Use the following spectrum analyzer settings:
	<ul style="list-style-type: none"> Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	<ul style="list-style-type: none"> Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.
	<ul style="list-style-type: none"> KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	<ul style="list-style-type: none"> 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.
	<ul style="list-style-type: none"> Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.6.4 Test Setup





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

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

3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



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	9 kHz ~ 30 MHz	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	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	30/Aug/2019	29/Aug/2020
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz 3m	30/Aug/2019	29/Aug/2020
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	14/Apr/2020	13/Apr/2021
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	22/Apr/2019	21/Apr/2020
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	28/May/2019	27/May/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112D / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	28/Feb/2020	27/Feb/2021
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz ~ 26.5GHz	09/Sep/2019	08/Sep/2020
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	15/Aug/2019	14/Aug/2020
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	18/Mar/2020	17/Mar/2021
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	SN 805801/4+SN 804300/4	1GHz ~ 40GHz	18/Mar/2020	17/Mar/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18GHz~40GHz	22/May/2019	21/May/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1543	1GHz ~ 18GHz	02/Jun/2019	01/Jun/2020
Preamplifier	MITEQ	TTA1840-35-H G	1864481	18GHz ~ 40GHz	10/Mar/2020	09/Mar/2021
Loop Antenna	TESEQ	HLA 6120	31244	9kHz ~ 30MHz	16/Mar/2020	15/Mar/2021



Instrument for Conducted Test

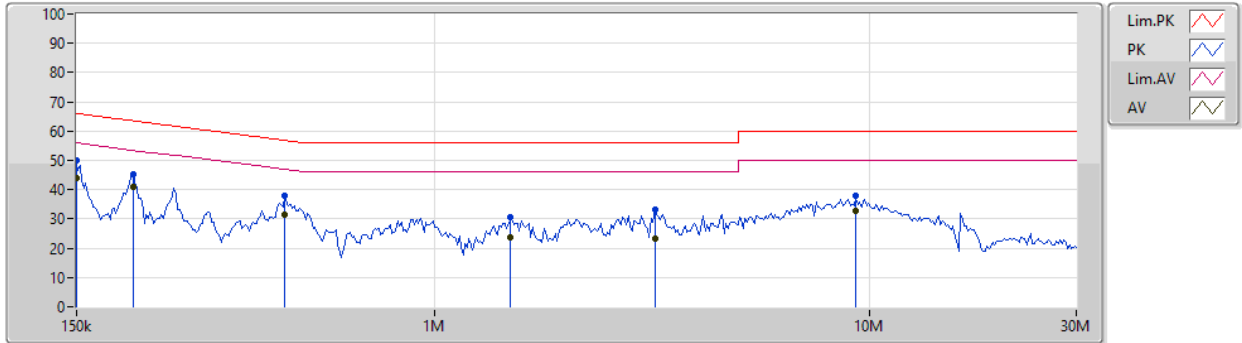
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101029	10kHz ~ 40GHz	01/Oct/2019	30/Sep/2020
Pulse Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	18/Mar/2020	17/Mar/2021
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	18/Mar/2020	17/Mar/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter Mode		

23/03/2020



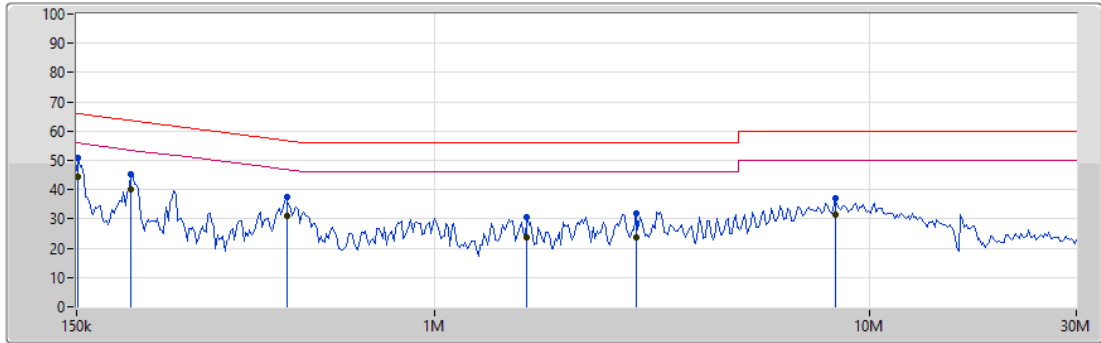
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	150k	50.03	66.00	-15.97	19.63	Neutral	-	30.40	9.65	0.11	9.87
AV	150k	44.13	56.00	-11.87	19.63	Neutral	"Worst"	24.50	9.65	0.11	9.87
QP	202.177k	45.31	63.51	-18.20	19.62	Neutral	-	25.69	9.64	0.11	9.87
AV	202.177k	40.99	53.51	-12.52	19.62	Neutral	-	21.37	9.64	0.11	9.87
QP	452.651k	38.06	56.82	-18.76	19.63	Neutral	-	18.43	9.63	0.13	9.87
AV	452.651k	31.63	46.82	-15.19	19.63	Neutral	-	12.00	9.63	0.13	9.87
QP	1.494M	30.70	56.00	-25.30	19.64	Neutral	-	11.06	9.64	0.13	9.87
AV	1.494M	23.63	46.00	-22.37	19.64	Neutral	-	3.99	9.64	0.13	9.87
QP	3.214M	33.11	56.00	-22.89	19.72	Neutral	-	13.39	9.66	0.18	9.88
AV	3.214M	23.45	46.00	-22.55	19.72	Neutral	-	3.73	9.66	0.18	9.88
QP	9.321M	38.01	60.00	-21.99	19.84	Neutral	-	18.17	9.70	0.26	9.88
AV	9.321M	32.71	50.00	-17.29	19.84	Neutral	-	12.87	9.70	0.26	9.88



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter Mode		

23/03/2020



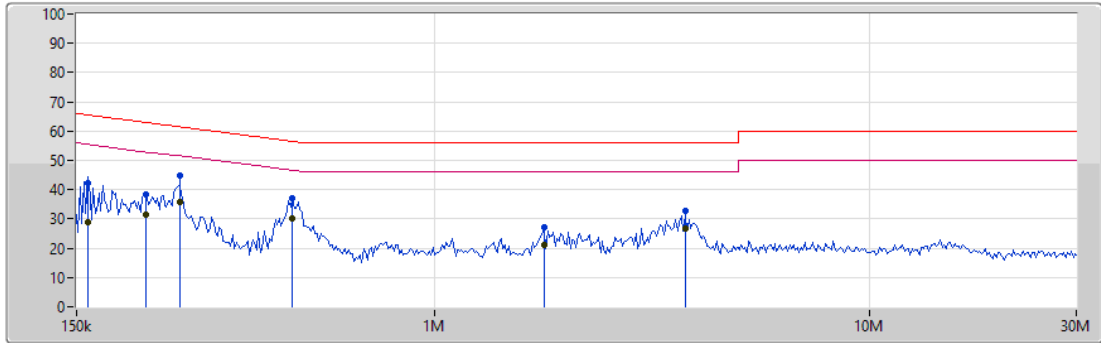
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	151.5k	50.99	65.92	-14.93	19.64	Line	-	31.35	9.66	0.11	9.87
AV	151.5k	44.37	55.92	-11.55	19.64	Line	-	24.73	9.66	0.11	9.87
QP	200.176k	45.47	63.61	-18.14	19.63	Line	-	25.84	9.65	0.11	9.87
AV	200.176k	40.21	53.61	-13.40	19.63	Line	-	20.58	9.65	0.11	9.87
QP	457.178k	37.43	56.75	-19.32	19.64	Line	-	17.79	9.64	0.13	9.87
AV	457.178k	30.82	46.75	-15.93	19.64	Line	-	11.18	9.64	0.13	9.87
QP	1.634M	30.77	56.00	-25.23	19.66	Line	-	11.11	9.65	0.14	9.87
AV	1.634M	23.92	46.00	-22.08	19.66	Line	-	4.26	9.65	0.14	9.87
QP	2.91M	31.70	56.00	-24.30	19.71	Line	-	11.99	9.66	0.17	9.88
AV	2.91M	23.70	46.00	-22.30	19.71	Line	-	3.99	9.66	0.17	9.88
QP	8.355M	37.01	60.00	-22.99	19.81	Line	-	17.20	9.68	0.25	9.88
AV	8.355M	31.32	50.00	-18.68	19.81	Line	-	11.51	9.68	0.25	9.88



AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Neutral
Operating Function	PoE Mode		

18/04/2020



Legend for the graph:

- Lim.PK (Red line)
- PK (Blue line)
- Lim.AV (Pink line)
- AV (Grey line)

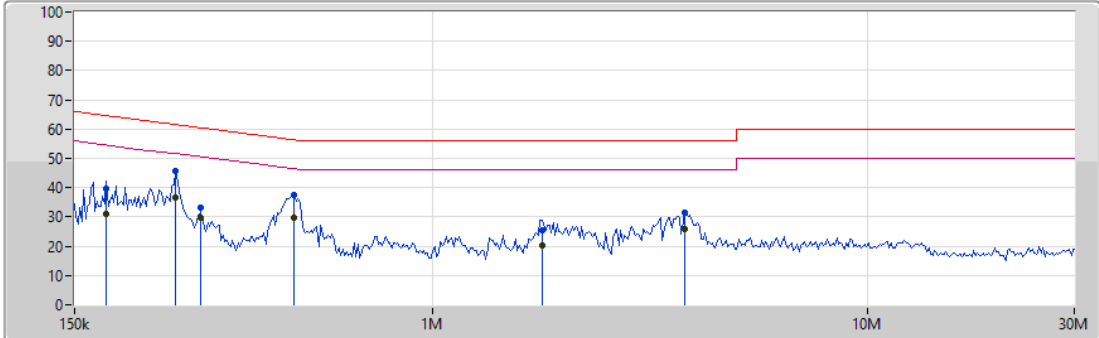
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	159.228k	42.44	65.50	-23.06	19.63	Neutral	-	22.81	9.65	0.11	9.87
AV	159.228k	29.04	55.50	-26.46	19.63	Neutral	-	9.41	9.65	0.11	9.87
QP	216.761k	38.36	62.94	-24.58	19.62	Neutral	-	18.74	9.64	0.11	9.87
AV	216.761k	31.67	52.94	-21.27	19.62	Neutral	-	12.05	9.64	0.11	9.87
QP	259.279k	44.95	61.45	-16.50	19.63	Neutral	-	25.32	9.64	0.12	9.87
AV	259.279k	35.61	51.45	-15.84	19.63	Neutral	"Worst"	15.98	9.64	0.12	9.87
QP	471.031k	37.13	56.50	-19.37	19.63	Neutral	-	17.50	9.63	0.13	9.87
AV	471.031k	29.99	46.50	-16.51	19.63	Neutral	-	10.36	9.63	0.13	9.87
QP	1.787M	27.23	56.00	-28.77	19.66	Neutral	-	7.57	9.65	0.14	9.87
AV	1.787M	20.91	46.00	-25.09	19.66	Neutral	-	1.25	9.65	0.14	9.87
QP	3.769M	32.68	56.00	-23.32	19.72	Neutral	-	12.96	9.66	0.18	9.88
AV	3.769M	26.87	46.00	-19.13	19.72	Neutral	-	7.15	9.66	0.18	9.88



AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Line
Operating Function	PoE Mode		

18/04/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	177.646k	39.78	64.59	-24.81	19.63	Line	-	20.15	9.65	0.11	9.87
AV	177.646k	31.02	54.59	-23.57	19.63	Line	-	11.39	9.65	0.11	9.87
QP	256.712k	45.72	61.54	-15.82	19.64	Line	-	26.08	9.65	0.12	9.87
AV	256.712k	36.77	51.54	-14.77	19.64	Line	"Worst"	17.13	9.65	0.12	9.87
QP	292.162k	32.98	60.46	-27.48	19.63	Line	-	13.35	9.64	0.12	9.87
AV	292.162k	29.55	50.46	-20.91	19.63	Line	-	9.92	9.64	0.12	9.87
QP	480.498k	37.54	56.33	-18.79	19.64	Line	-	17.90	9.64	0.13	9.87
AV	480.498k	29.92	46.33	-16.41	19.64	Line	-	10.28	9.64	0.13	9.87
QP	1.787M	25.34	56.00	-30.66	19.66	Line	-	5.68	9.65	0.14	9.87
AV	1.787M	20.39	46.00	-25.61	19.66	Line	-	0.73	9.65	0.14	9.87
QP	3.807M	31.32	56.00	-24.68	19.72	Line	-	11.60	9.66	0.18	9.88
AV	3.807M	25.66	46.00	-20.34	19.72	Line	-	5.94	9.66	0.18	9.88

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	7.55M	12.019M	12M0G1D	7M	11.694M
802.11g_Nss1,(6Mbps)_1TX	16.3M	16.842M	16M8D1D	16.25M	16.517M
802.11n HT20_Nss1,(MCS0)_1TX	17.05M	17.916M	17M9D1D	16.525M	17.691M

Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	7M	12.019M
2437MHz	Pass	500k	7.05M	11.694M
2462MHz	Pass	500k	7.55M	11.744M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.3M	16.617M
2437MHz	Pass	500k	16.275M	16.842M
2462MHz	Pass	500k	16.25M	16.517M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.05M	17.766M
2437MHz	Pass	500k	16.9M	17.916M
2462MHz	Pass	500k	16.525M	17.691M

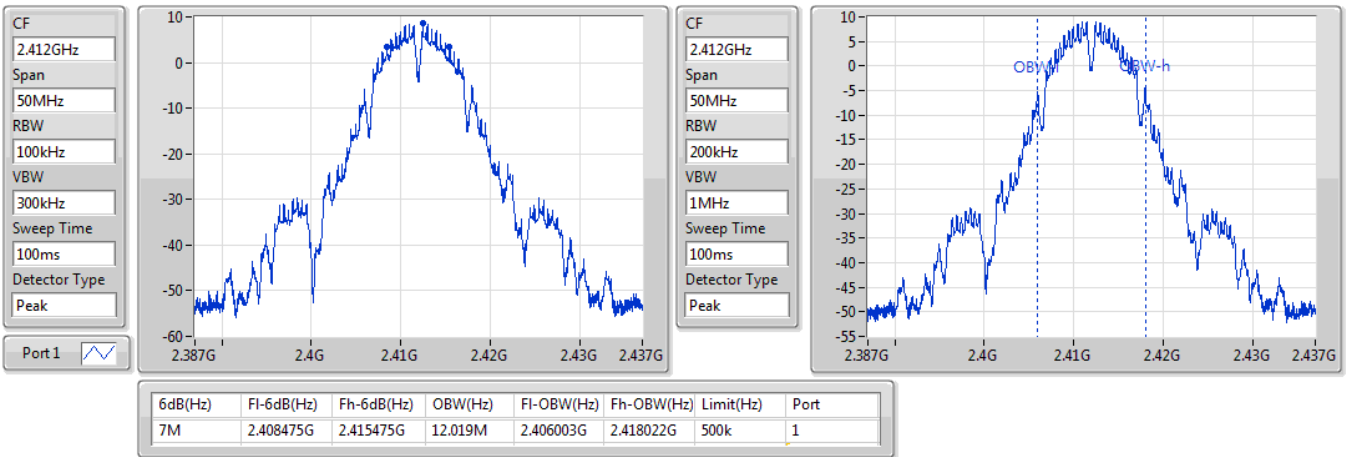
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX

EBW

2412MHz

23/03/2020

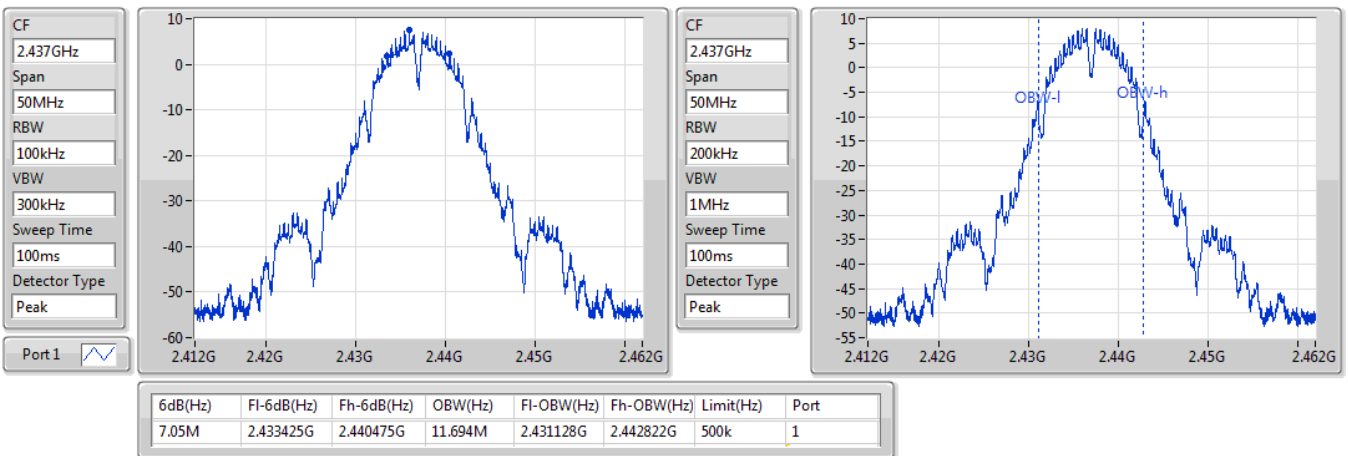


802.11b_Nss1,(1Mbps)_1TX

EBW

2437MHz

23/03/2020



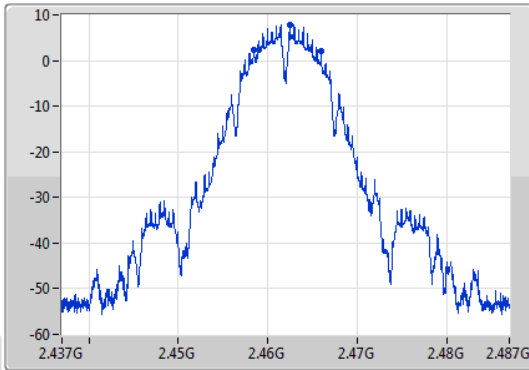
802.11b_Nss1,(1Mbps)_1TX

EBW

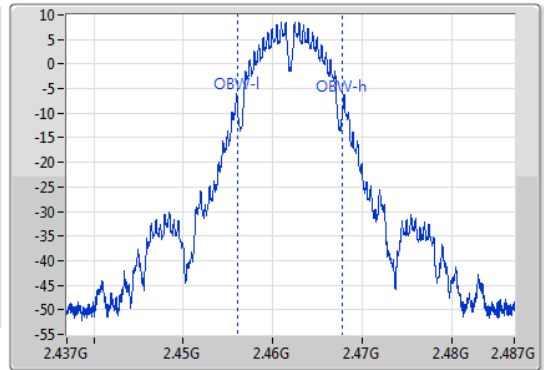
2462MHz

23/03/2020

CF
2.462GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
2.462GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.55M	2.458425G	2.465975G	11.744M	2.456078G	2.467822G	500k	1

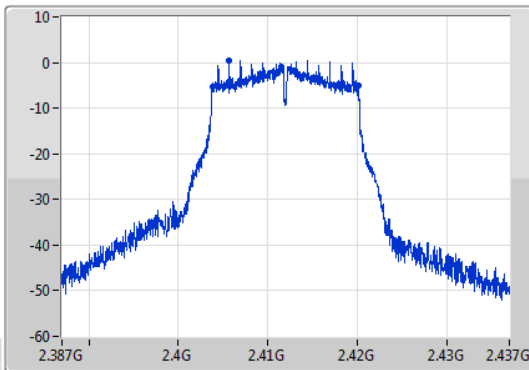
802.11g_Nss1,(6Mbps)_1TX

EBW

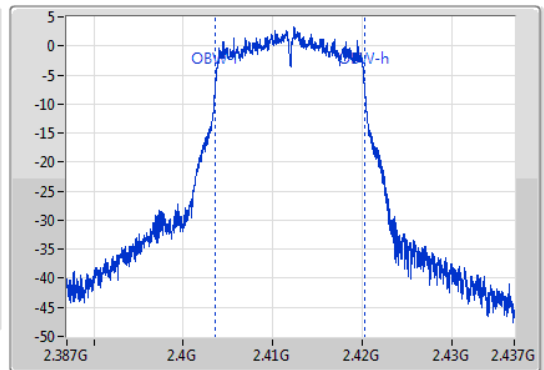
2412MHz

23/03/2020

CF
2.412GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
2.412GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



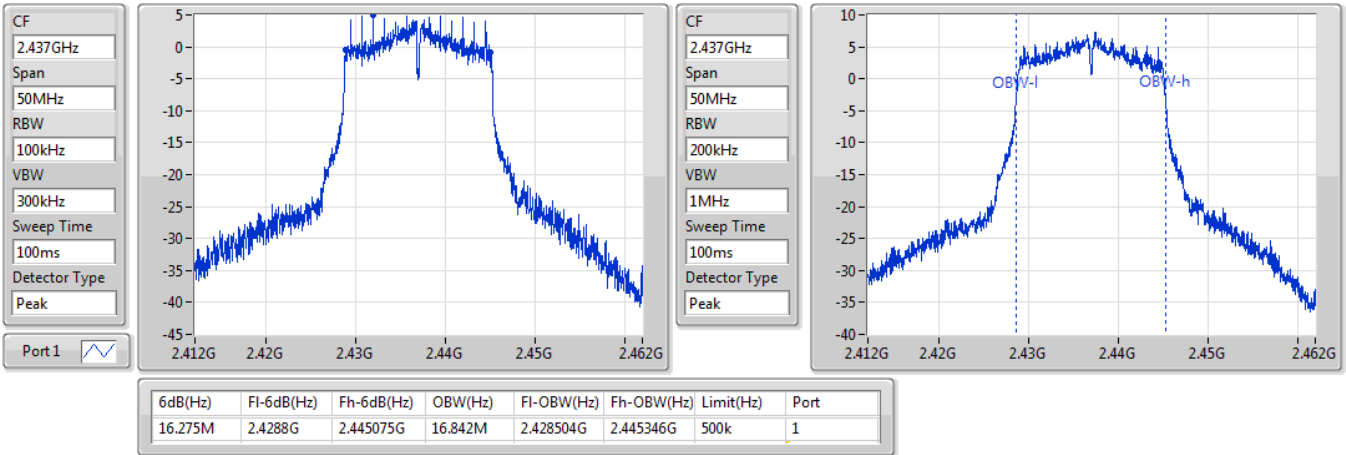
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	2.4038G	2.4201G	16.617M	2.403604G	2.420221G	500k	1

802.11g_Nss1,(6Mbps)_1TX

EBW

2437MHz

25/03/2020

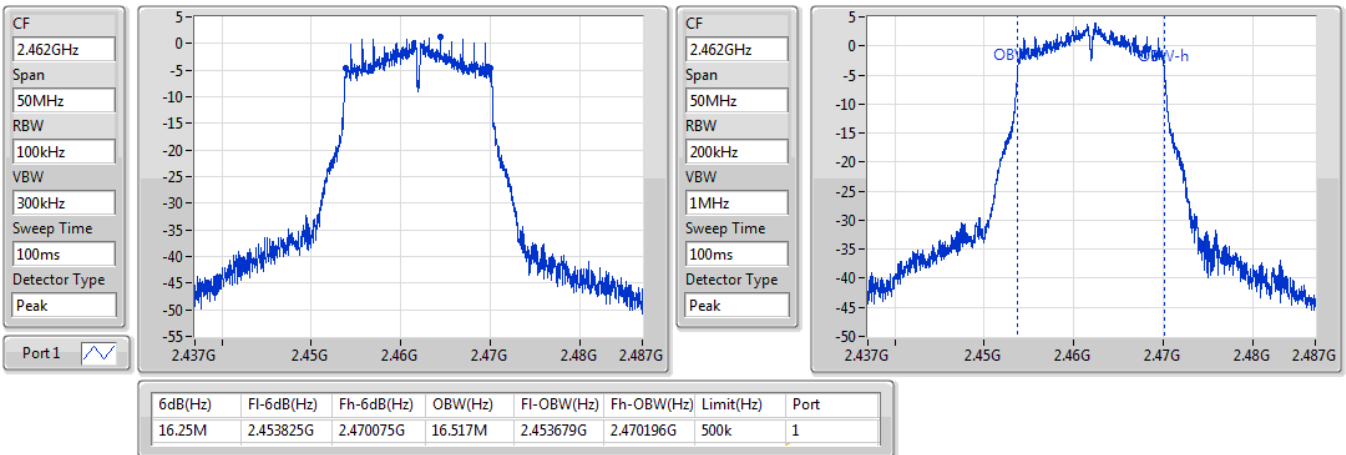


802.11g_Nss1,(6Mbps)_1TX

EBW

2462MHz

23/03/2020

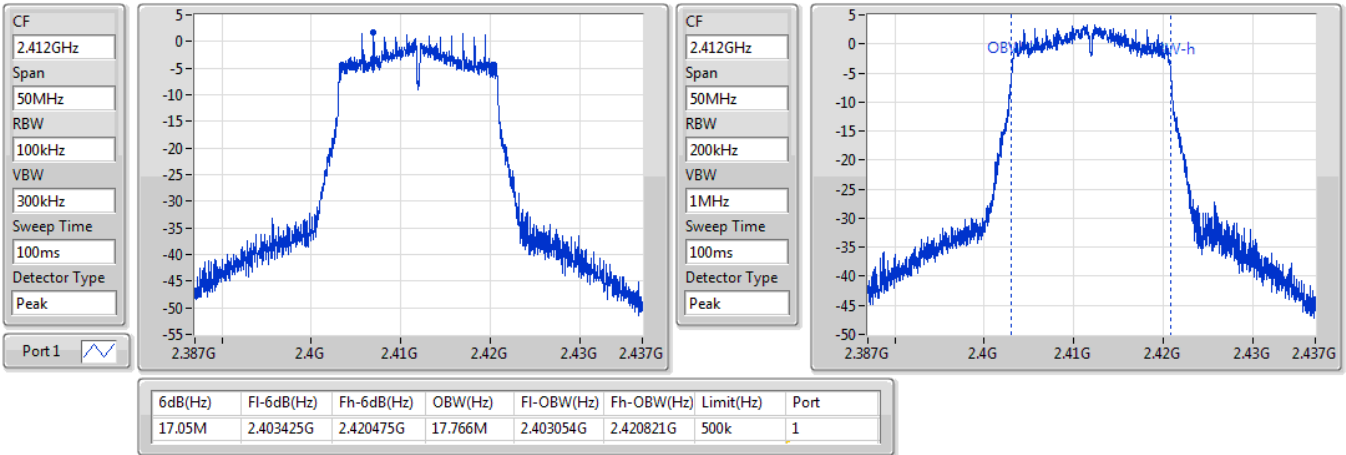


802.11n HT20_Nss1,(MCS0)_1TX

EBW

2412MHz

23/03/2020

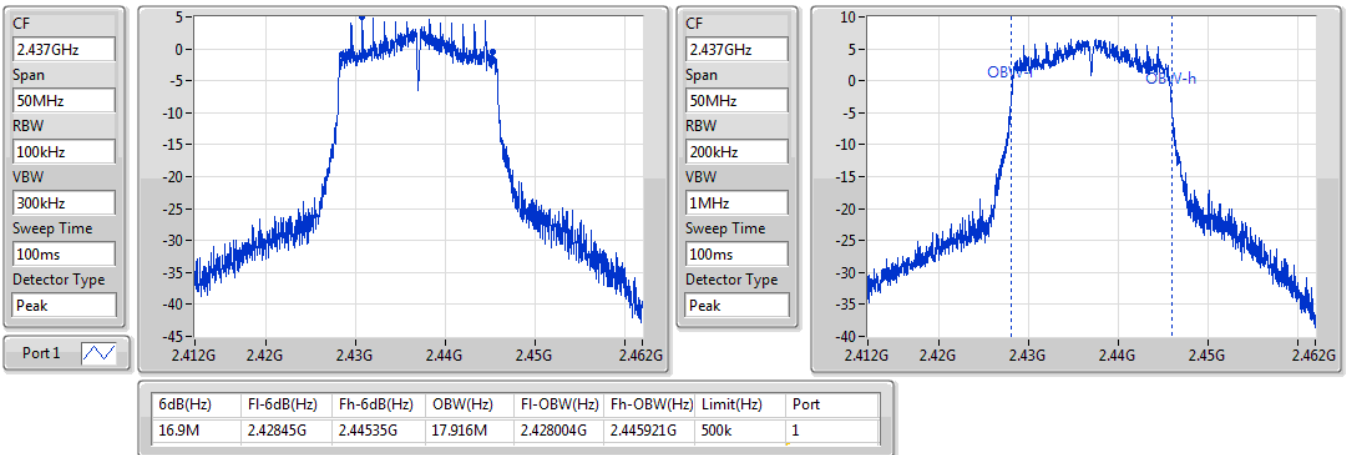


802.11n HT20_Nss1,(MCS0)_1TX

EBW

2437MHz

25/03/2020



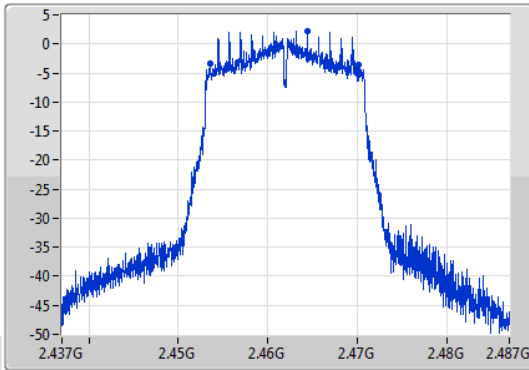
802.11n HT20_Nss1,(MCS0)_1TX

EBW

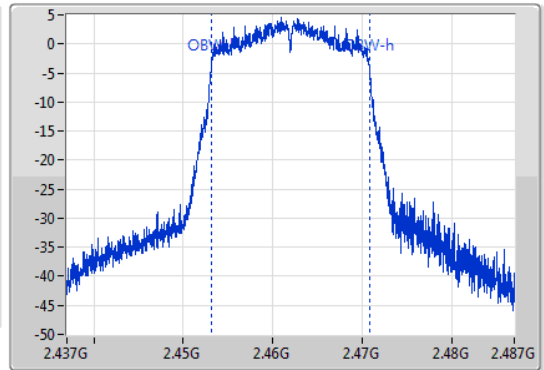
2462MHz

23/03/2020

CF
2.462GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
2.462GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.525M	2.453575G	2.4701G	17.691M	2.453104G	2.470796G	500k	1



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	17.42	0.05521
802.11g_Nss1,(6Mbps)_1TX	17.39	0.05483
802.11n HT20_Nss1,(MCS0)_1TX	16.95	0.04955



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.37	17.42	17.42	30.00
2437MHz	Pass	3.37	16.67	16.67	30.00
2462MHz	Pass	3.37	16.92	16.92	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.37	13.01	13.01	30.00
2417MHz	Pass	3.37	14.33	14.33	30.00
2437MHz	Pass	3.37	17.39	17.39	30.00
2457MHz	Pass	3.37	15.84	15.84	30.00
2462MHz	Pass	3.37	13.66	13.66	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.37	13.57	13.57	30.00
2417MHz	Pass	3.37	14.74	14.74	30.00
2437MHz	Pass	3.37	16.95	16.95	30.00
2457MHz	Pass	3.37	16.22	16.22	30.00
2462MHz	Pass	3.37	14.42	14.42	30.00

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



Summary

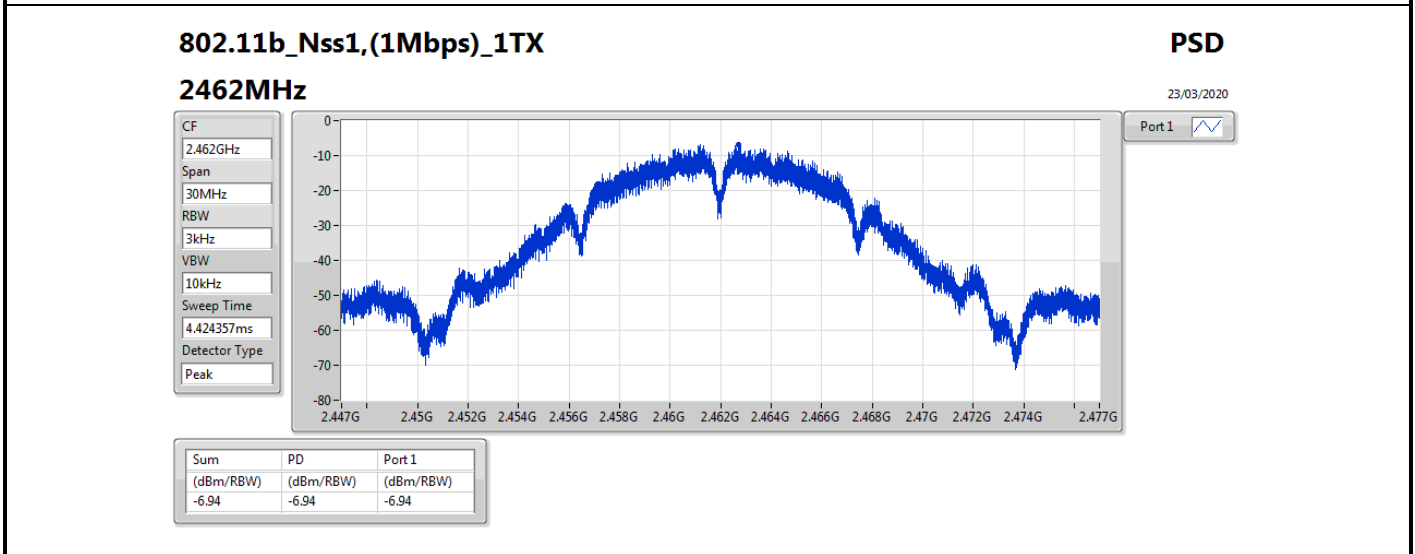
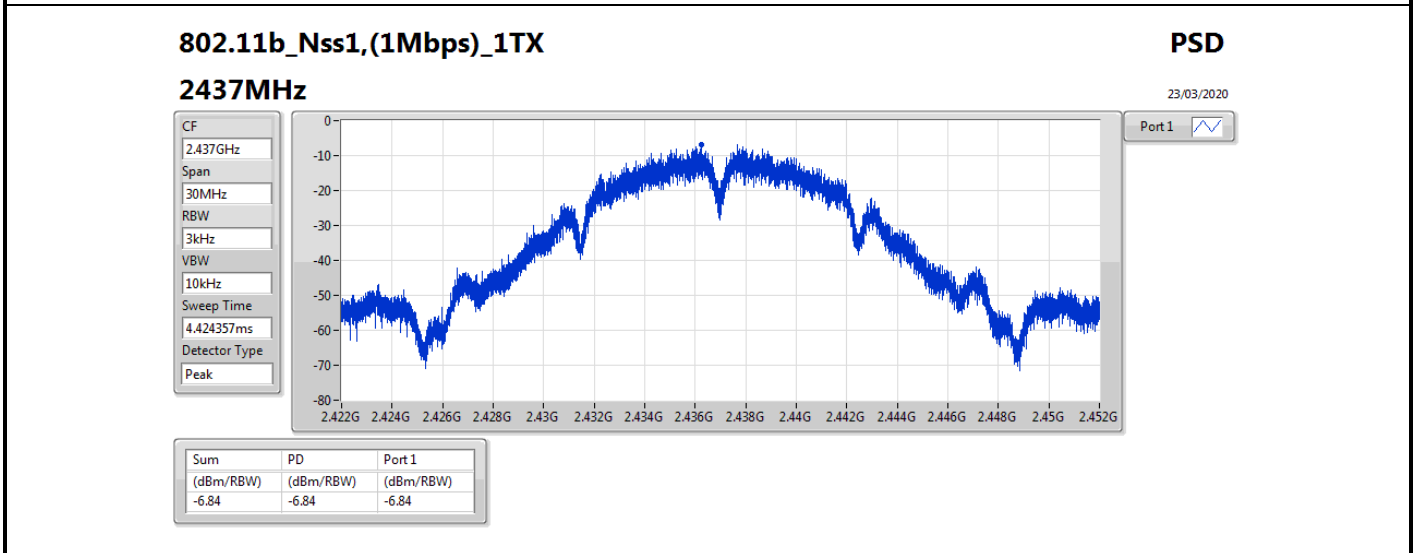
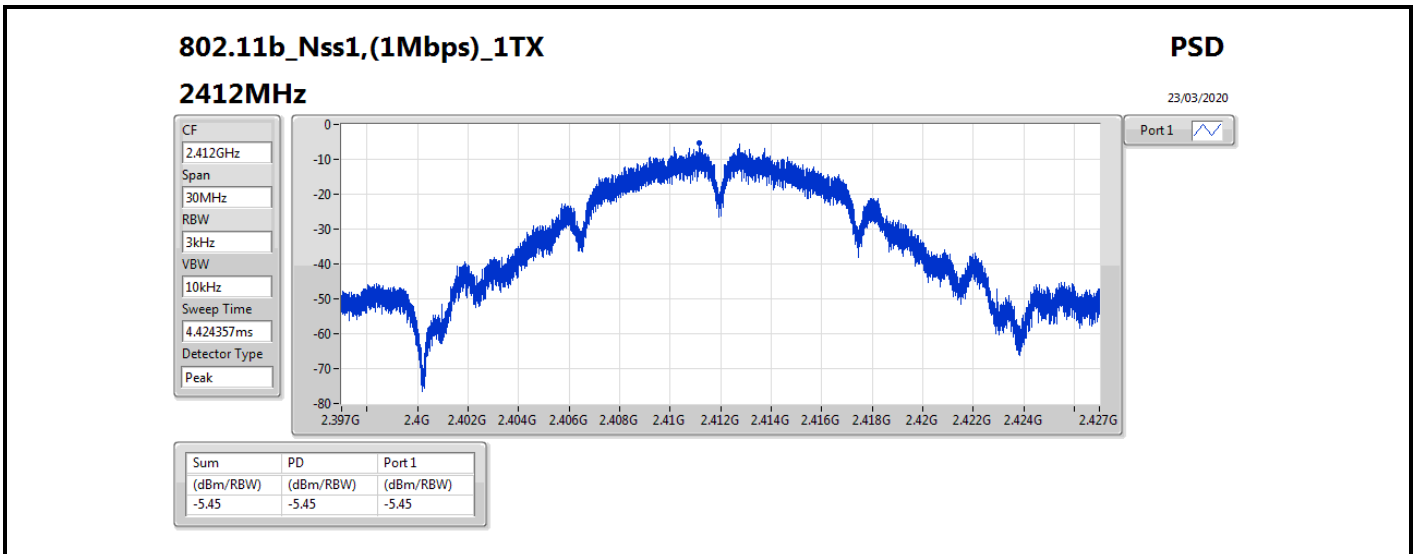
Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-5.45
802.11g_Nss1,(6Mbps)_1TX	-6.78
802.11n HT20_Nss1,(MCS0)_1TX	-6.64

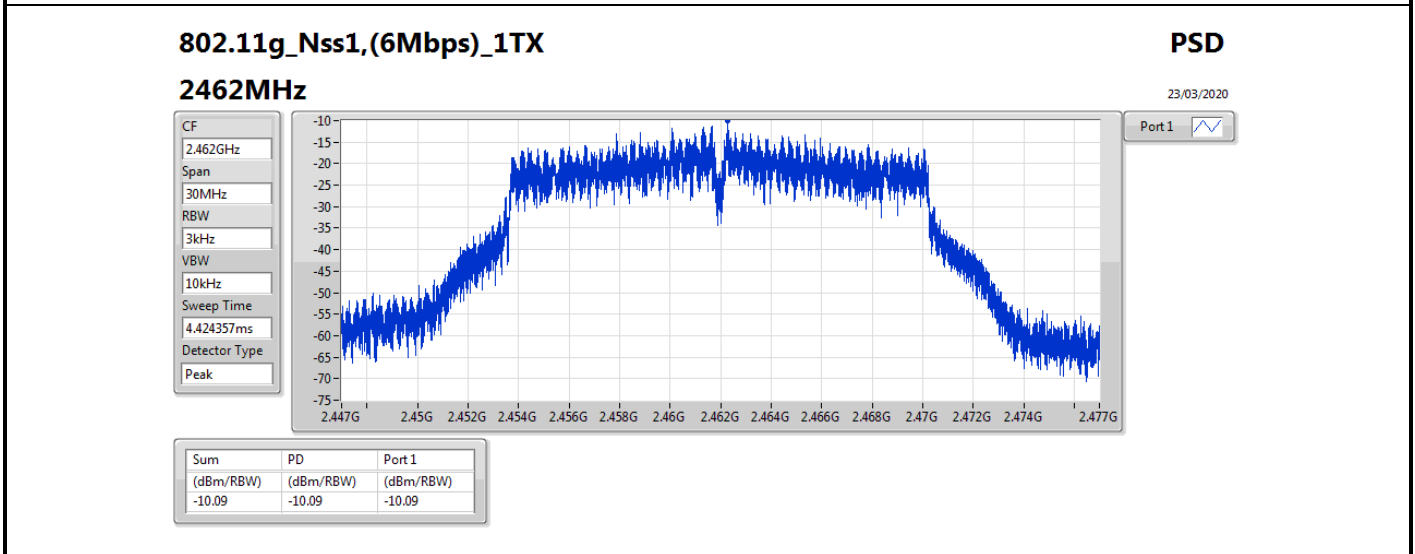
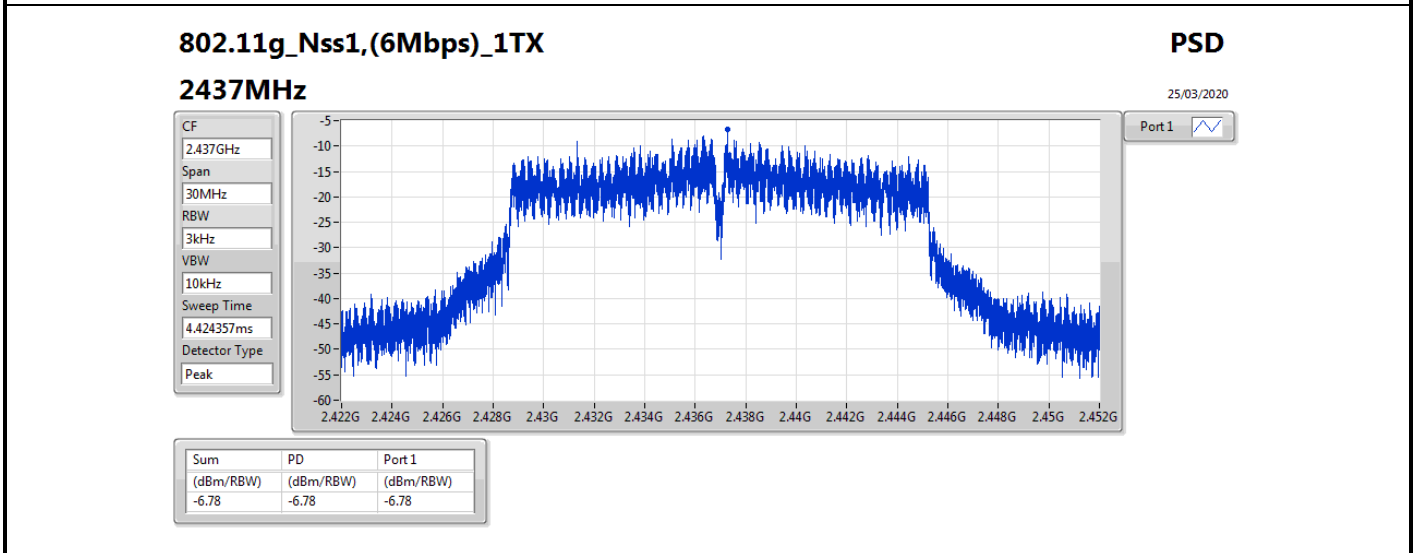
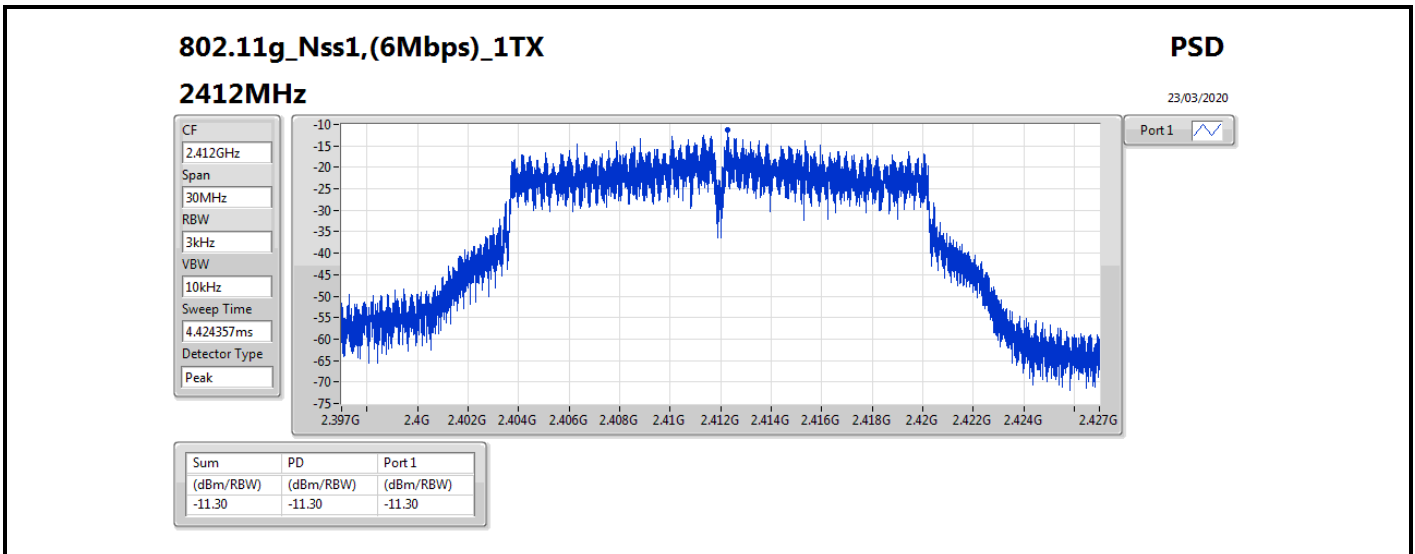
Result

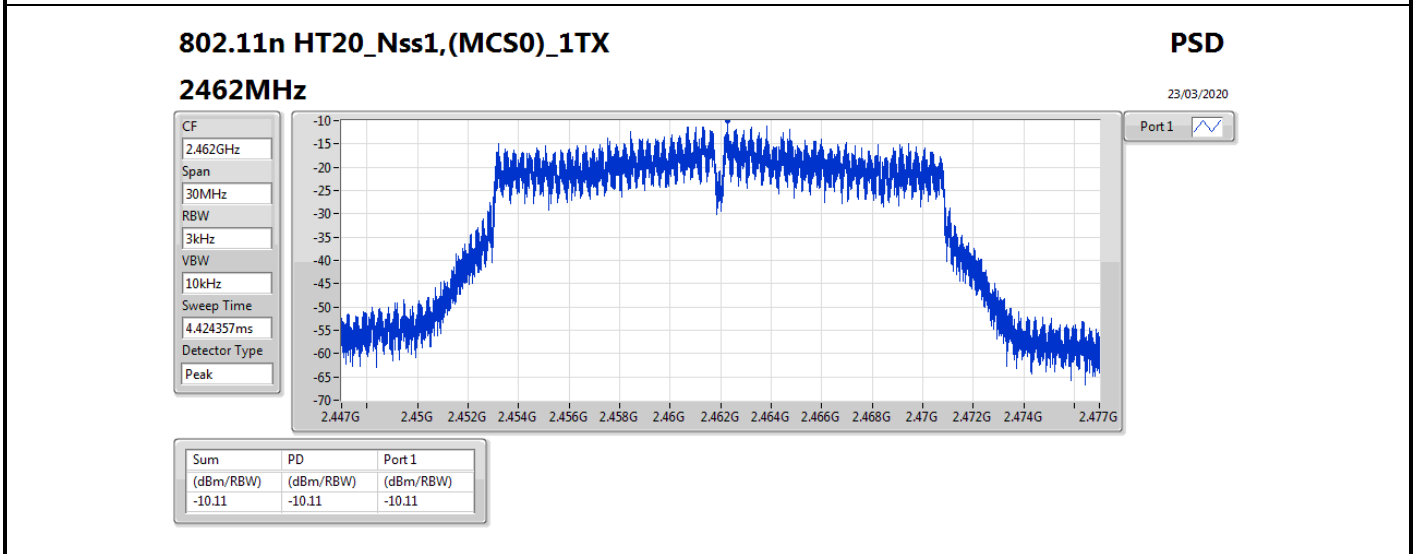
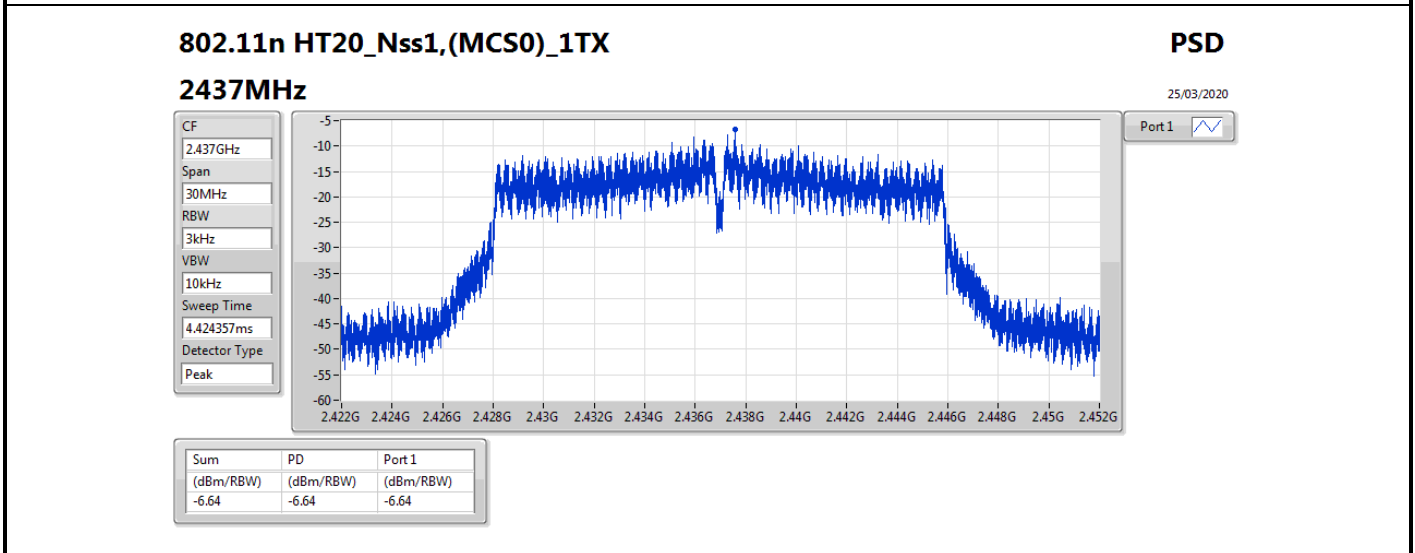
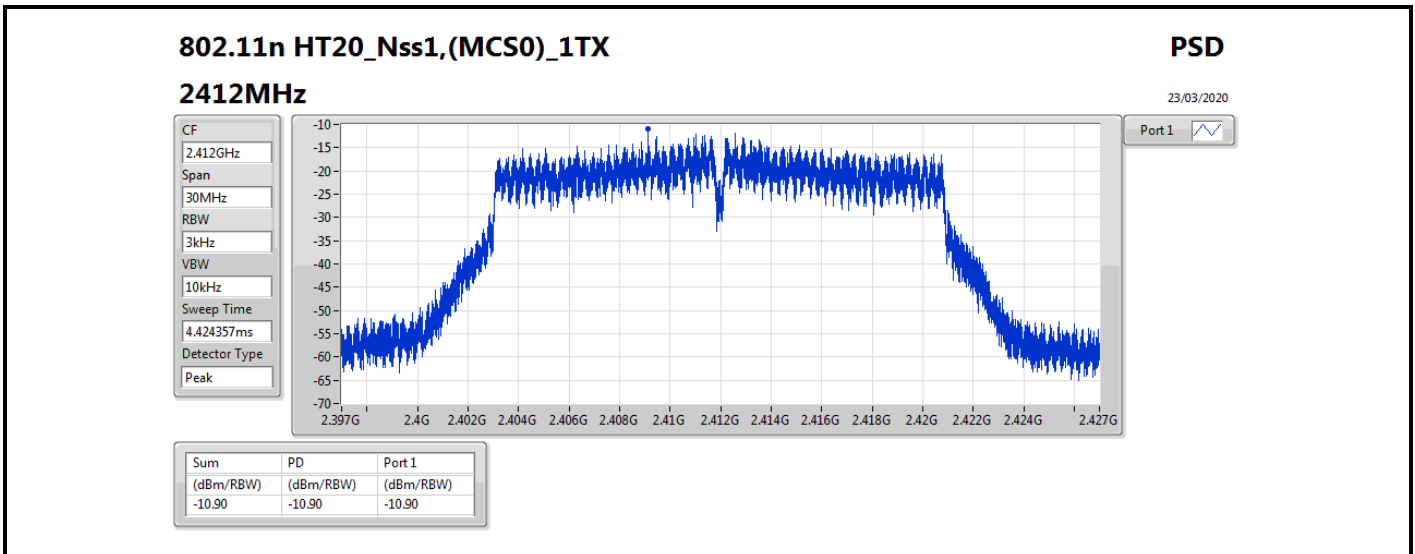
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.37	-5.45	-5.45	8.00
2437MHz	Pass	3.37	-6.84	-6.84	8.00
2462MHz	Pass	3.37	-6.94	-6.94	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.37	-11.30	-11.30	8.00
2437MHz	Pass	3.37	-6.78	-6.78	8.00
2462MHz	Pass	3.37	-10.09	-10.09	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.37	-10.90	-10.90	8.00
2437MHz	Pass	3.37	-6.64	-6.64	8.00
2462MHz	Pass	3.37	-10.11	-10.11	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;







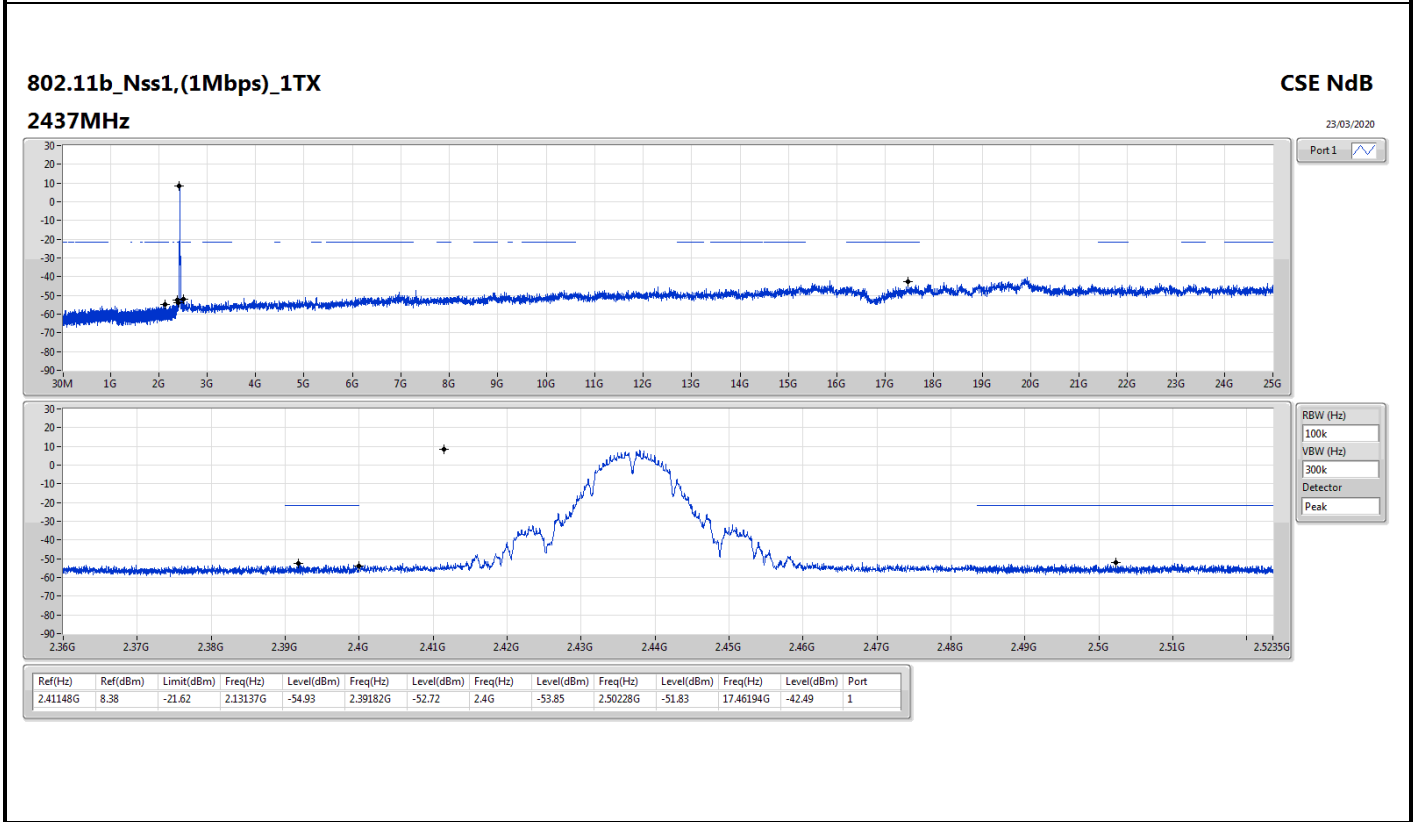
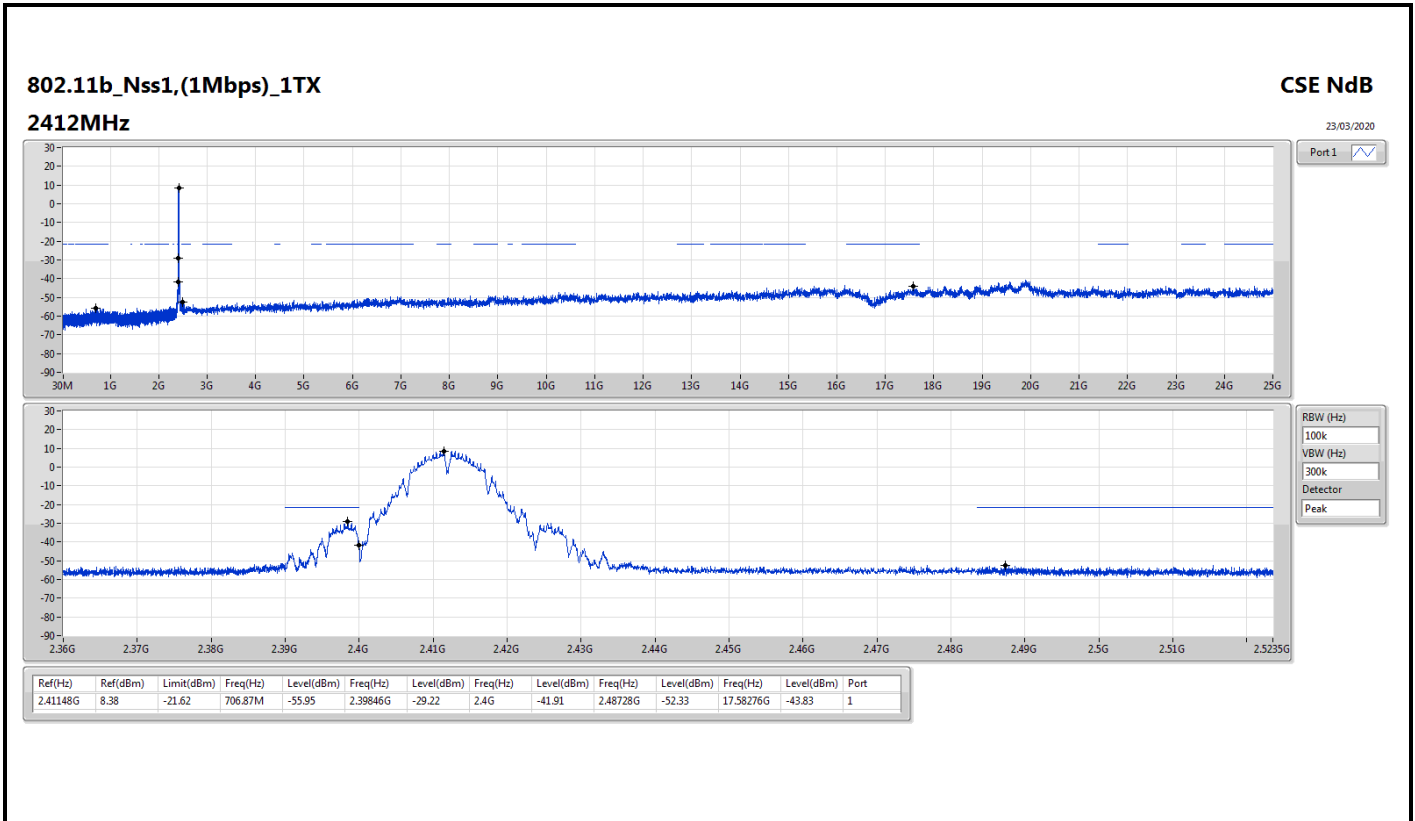


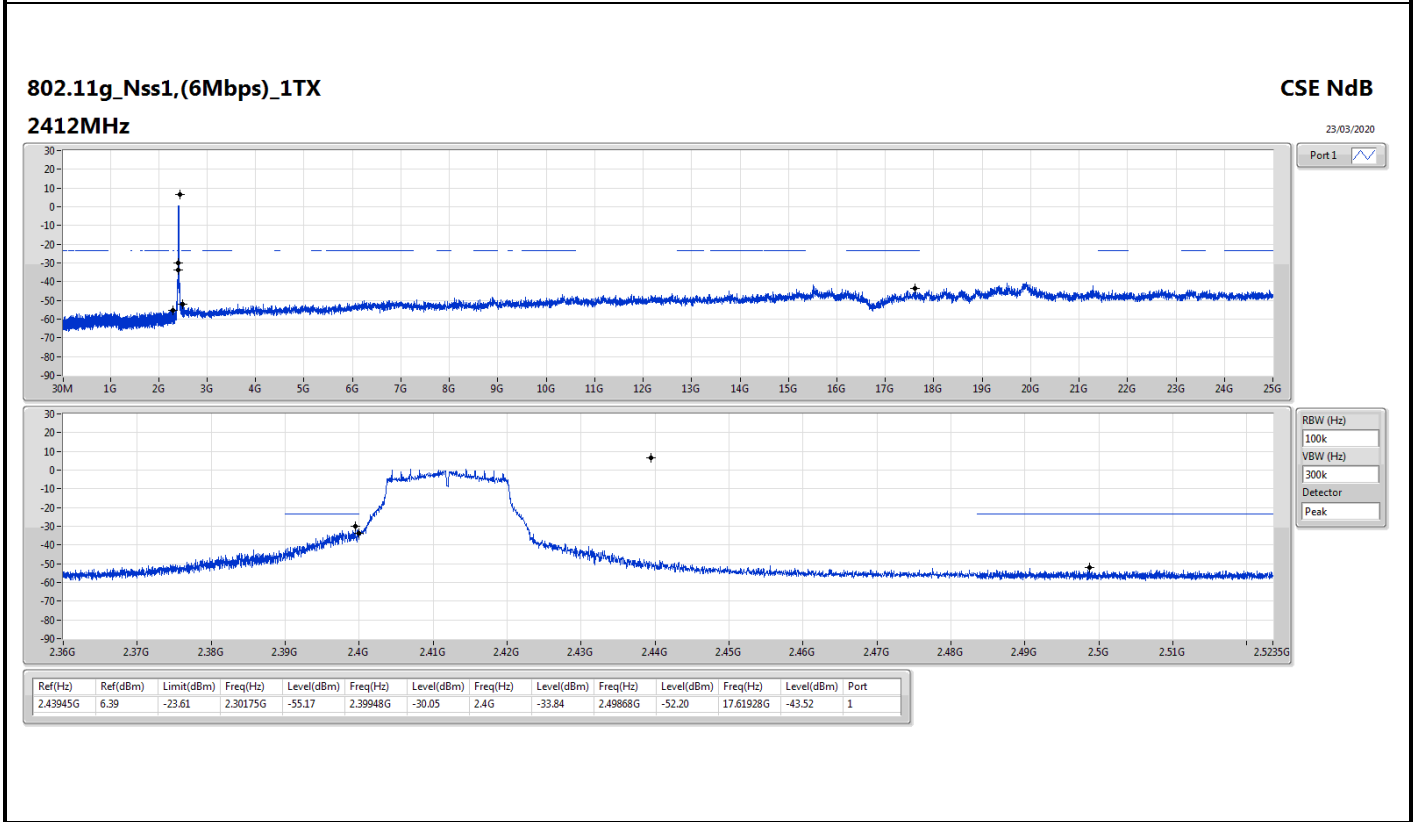
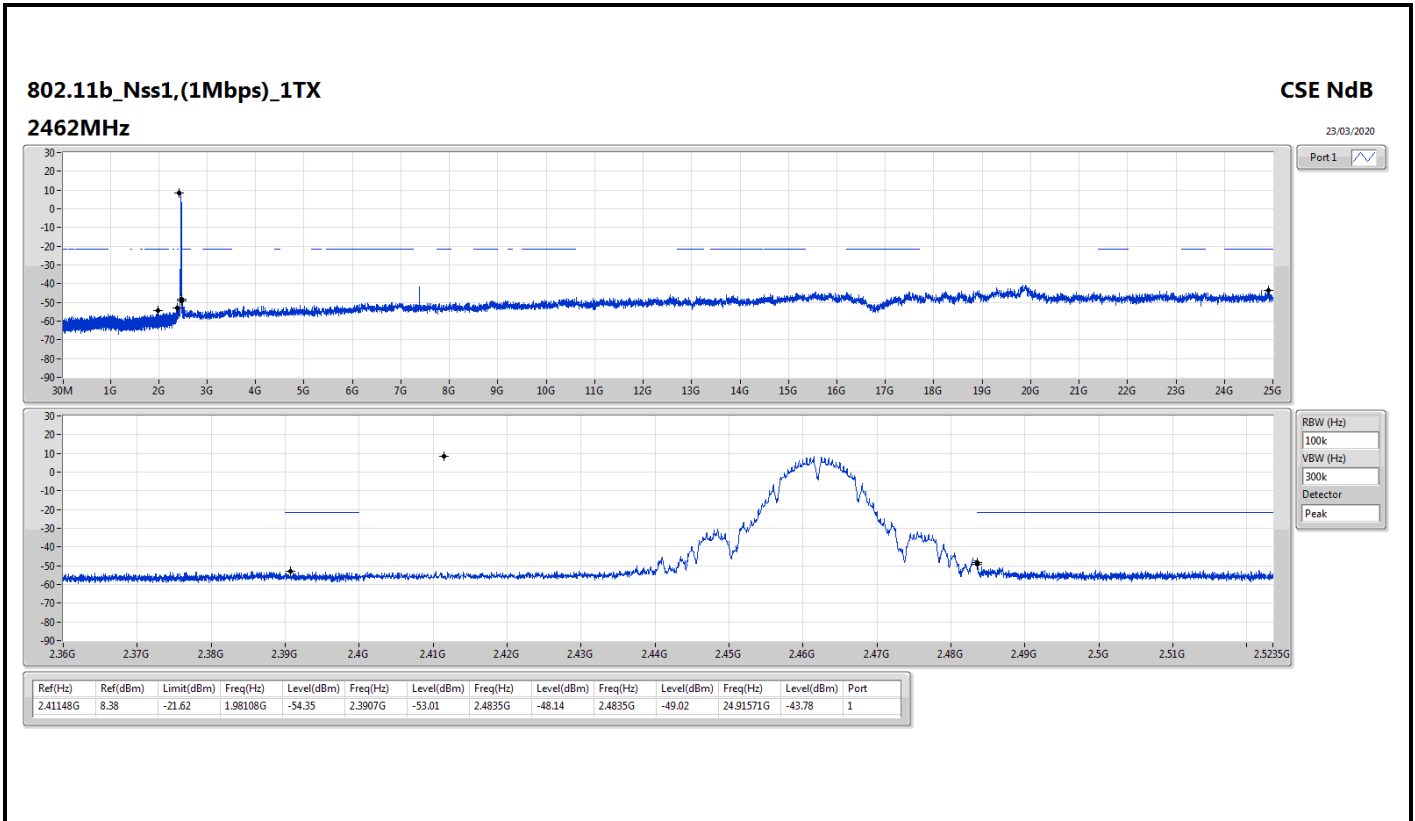
Summary

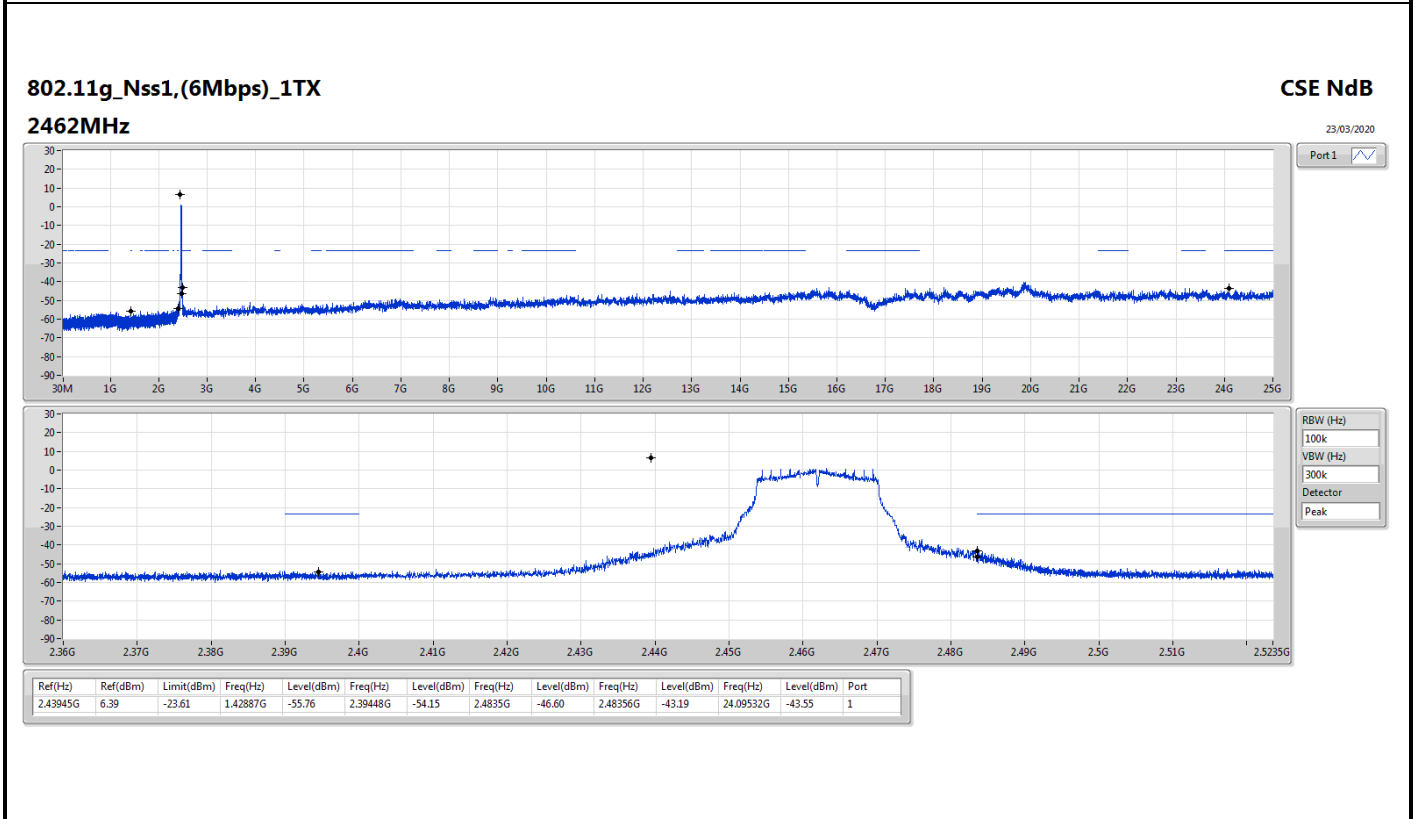
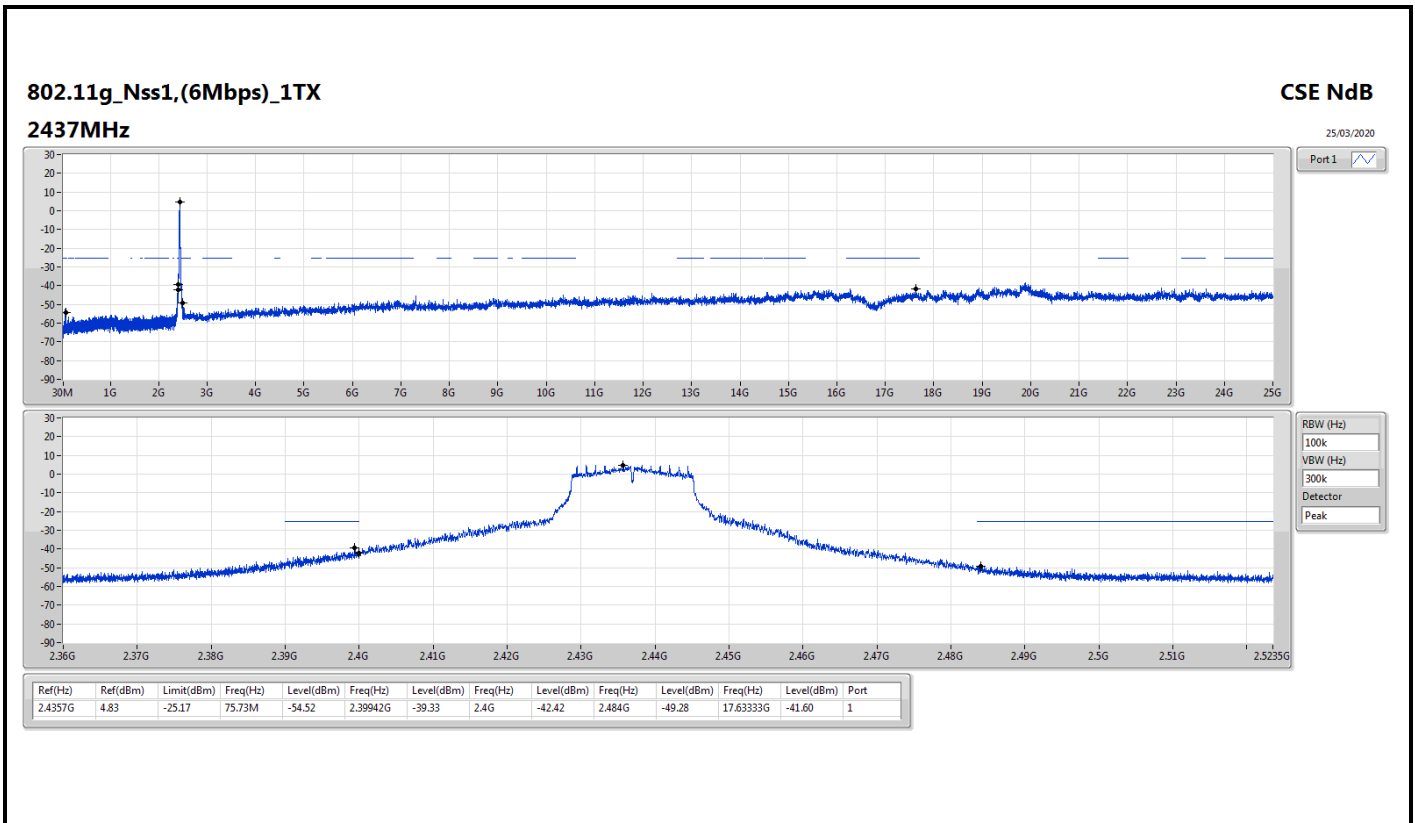
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.41148G	8.38	-21.62	706.87M	-55.95	2.39846G	-29.22	2.4G	-41.91	2.48728G	-52.33	17.58276G	-43.83	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43945G	6.39	-23.61	2.30175G	-55.17	2.39948G	-30.05	2.4G	-33.84	2.49868G	-52.20	17.61928G	-43.52	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.43945G	6.09	-23.91	1.92691G	-55.40	2.39822G	-32.70	2.4G	-34.55	2.4896G	-52.35	17.49285G	-43.59	1

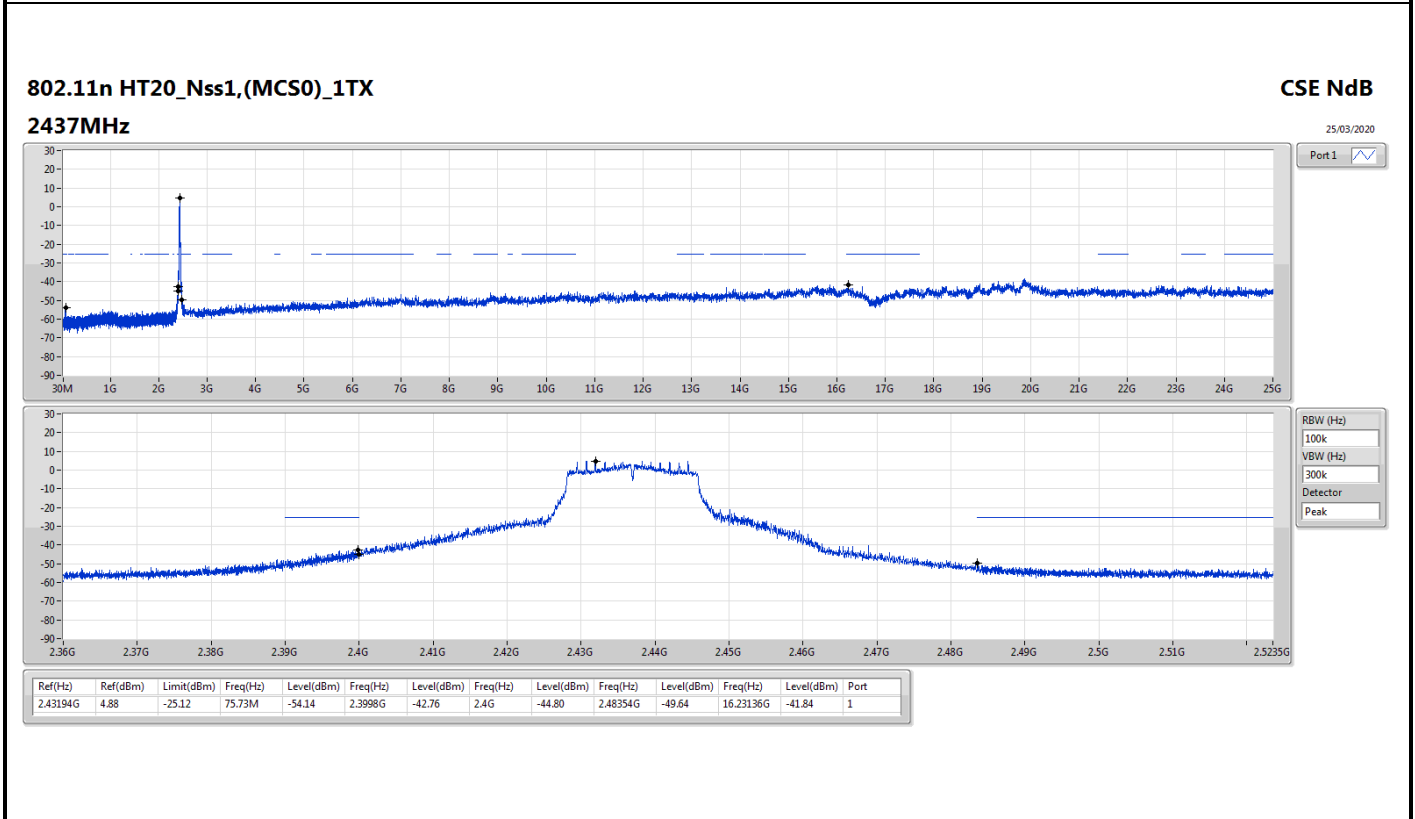
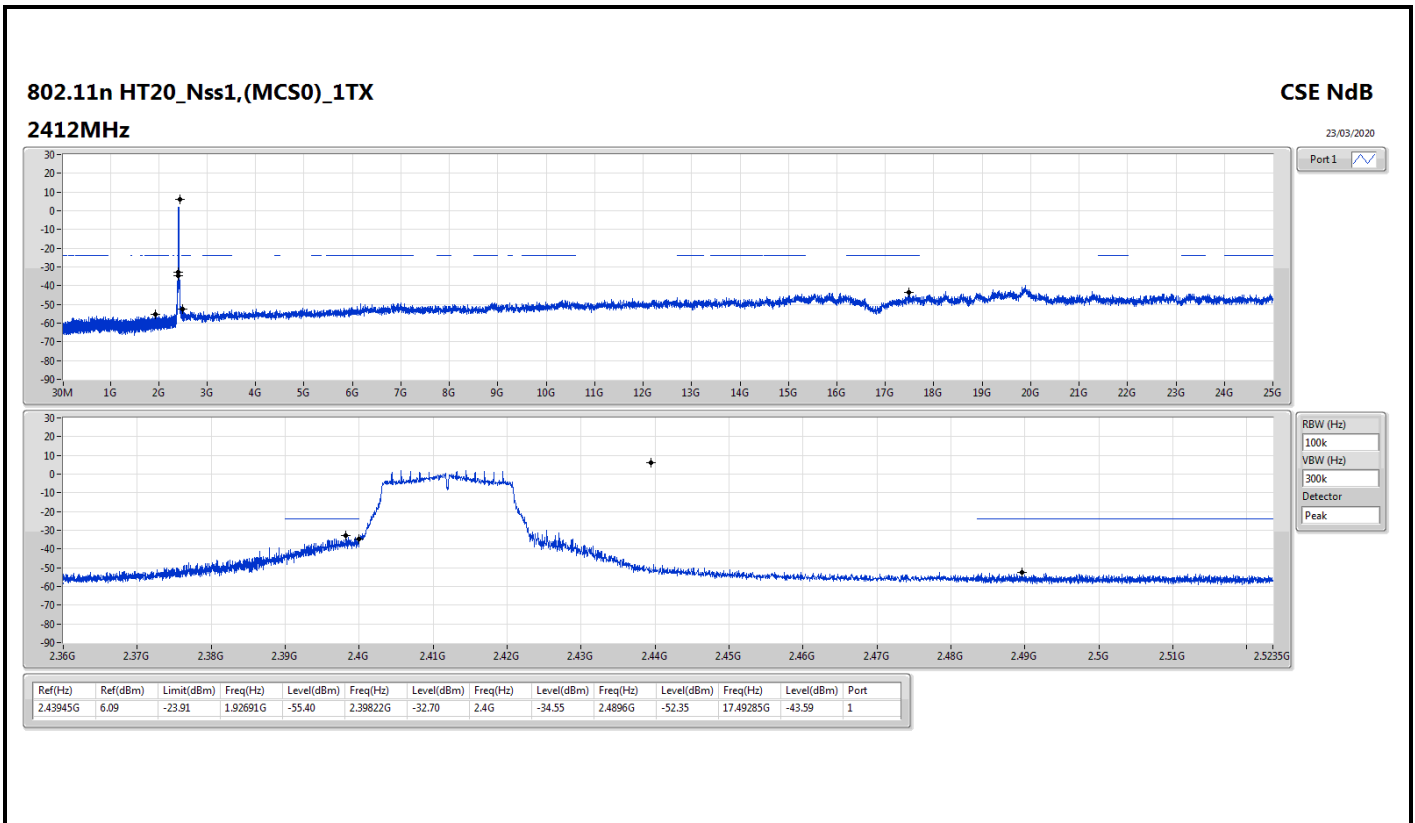
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41148G	8.38	-21.62	706.87M	-55.95	2.39846G	-29.22	2.4G	-41.91	2.48728G	-52.33	17.58276G	-43.83	1
2437MHz	Pass	2.41148G	8.38	-21.62	2.13137G	-54.93	2.39182G	-52.72	2.4G	-53.85	2.50228G	-51.83	17.46194G	-42.49	1
2462MHz	Pass	2.41148G	8.38	-21.62	1.98108G	-54.35	2.3907G	-53.01	2.4835G	-48.14	2.4835G	-49.02	24.91571G	-43.78	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43945G	6.39	-23.61	2.30175G	-55.17	2.39948G	-30.05	2.4G	-33.84	2.49868G	-52.20	17.61928G	-43.52	1
2437MHz	Pass	2.4357G	4.83	-25.17	75.73M	-54.52	2.39942G	-39.33	2.4G	-42.42	2.484G	-49.28	17.63333G	-41.60	1
2462MHz	Pass	2.43945G	6.39	-23.61	1.42887G	-55.76	2.39448G	-54.15	2.4835G	-46.60	2.48356G	-43.19	24.09532G	-43.55	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43945G	6.09	-23.91	1.92691G	-55.40	2.39822G	-32.70	2.4G	-34.55	2.4896G	-52.35	17.49285G	-43.59	1
2437MHz	Pass	2.43194G	4.88	-25.12	75.73M	-54.14	2.3998G	-42.76	2.4G	-44.80	2.48354G	-49.64	16.23136G	-41.84	1
2462MHz	Pass	2.43945G	6.09	-23.91	2.15234G	-55.66	2.39746G	-53.57	2.4835G	-42.43	2.48414G	-39.78	17.48723G	-43.21	1







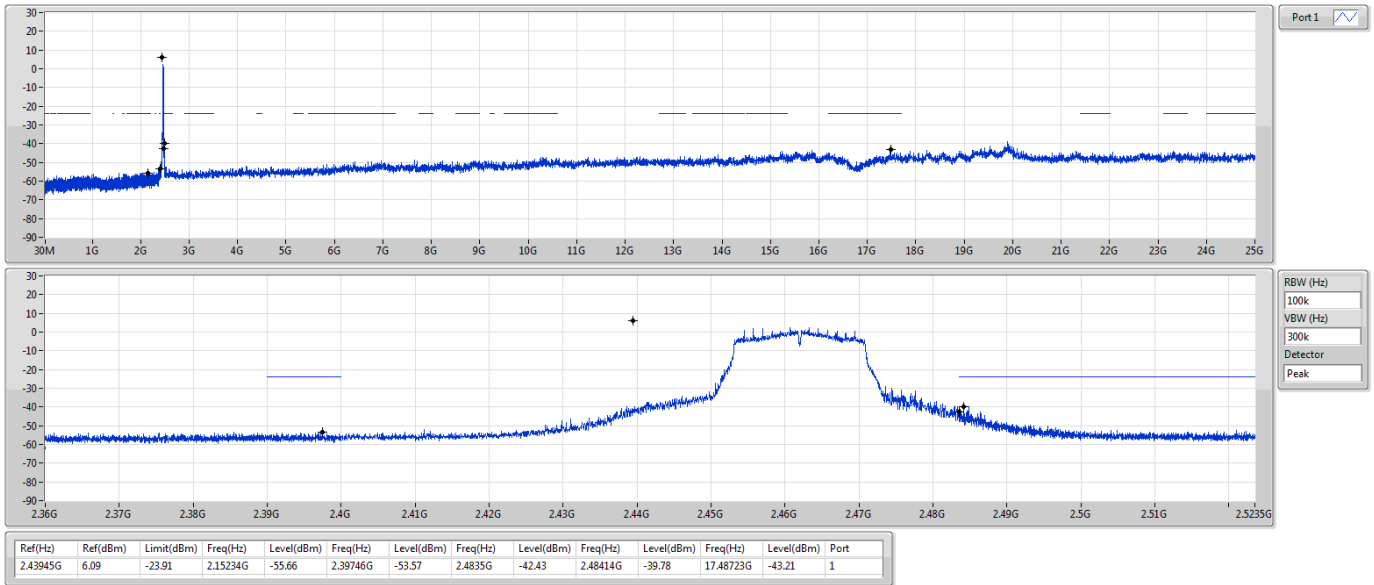


802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

2462MHz

23/03/2020





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	QP	299.66M	43.87	46.00	-2.13	3	Horizontal	42	1.00	-



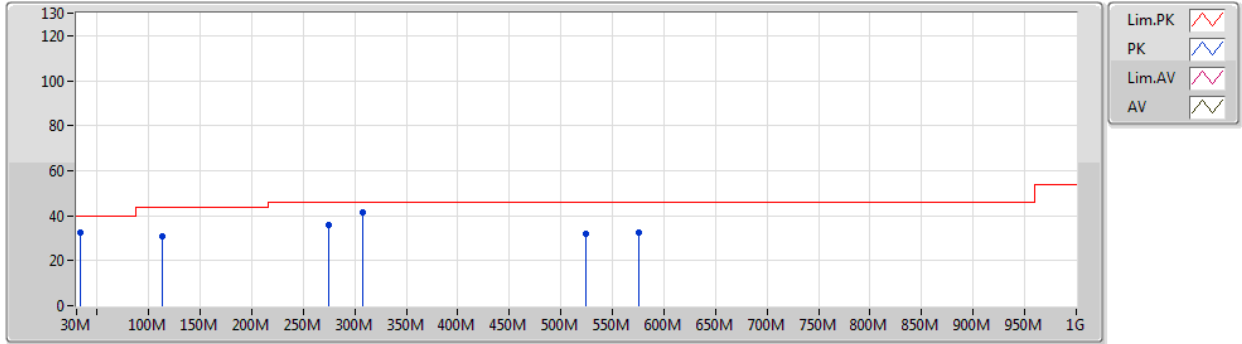
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	33.88M	32.65	40.00	-7.35	3	Vertical	0	1.00	-
2437MHz	Pass	PK	113.42M	30.60	43.50	-12.90	3	Vertical	0	1.00	-
2437MHz	Pass	PK	274.44M	35.73	46.00	-10.27	3	Vertical	0	1.00	-
2437MHz	Pass	PK	307.42M	41.72	46.00	-4.28	3	Vertical	0	1.00	-
2437MHz	Pass	PK	524.7M	31.73	46.00	-14.27	3	Vertical	0	1.00	-
2437MHz	Pass	PK	575.14M	32.75	46.00	-13.25	3	Vertical	0	1.00	-
2437MHz	Pass	PK	113.42M	34.11	43.50	-9.39	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	125.06M	35.07	43.50	-8.43	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	600.36M	36.25	46.00	-9.75	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	722.58M	40.06	46.00	-5.94	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	897.18M	41.95	46.00	-4.05	3	Horizontal	360	1.00	-
2437MHz	Pass	QP	299.66M	39.69	46.00	-6.31	3	Horizontal	209	1.01	-
2437MHz	Pass	PK	76.56M	22.97	40.00	-17.03	3	Vertical	0	1.00	-
2437MHz	Pass	PK	224M	24.25	46.00	-21.75	3	Vertical	0	1.00	-
2437MHz	Pass	PK	274.44M	33.36	46.00	-12.64	3	Vertical	0	1.00	-
2437MHz	Pass	PK	299.66M	38.87	46.00	-7.13	3	Vertical	0	1.00	-
2437MHz	Pass	PK	375.32M	28.08	46.00	-17.92	3	Vertical	0	1.00	-
2437MHz	Pass	PK	524.7M	30.29	46.00	-15.71	3	Vertical	0	1.00	-
2437MHz	Pass	PK	600.36M	32.62	46.00	-13.38	3	Vertical	0	1.00	-
2437MHz	Pass	PK	30M	17.82	40.00	-22.18	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	125.06M	27.80	43.50	-15.70	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	369.5M	35.81	46.00	-10.19	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	524.7M	33.08	46.00	-12.92	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	749.74M	38.09	46.00	-7.91	3	Horizontal	0	1.00	-
2437MHz	Pass	QP	299.66M	43.87	46.00	-2.13	3	Horizontal	42	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

16/04/2020

2437MHz_PoE

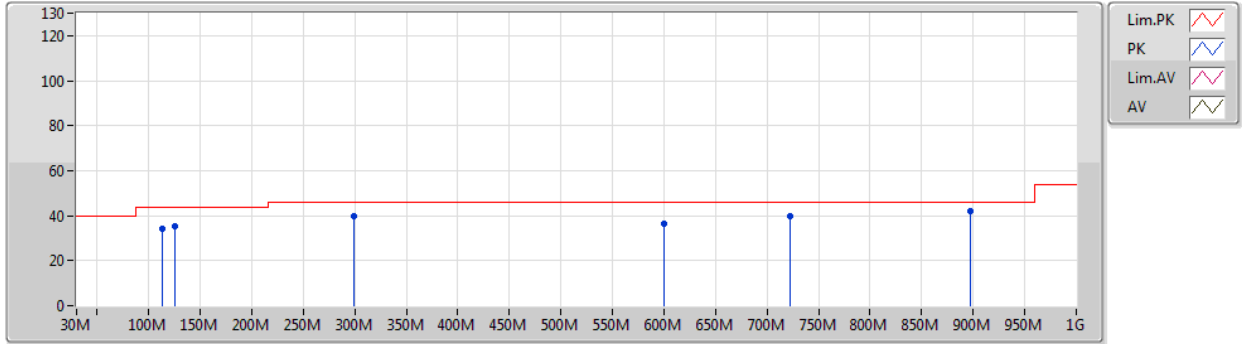


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	33.88M	32.65	40.00	-7.35	-5.33	3	Vertical	0	1.00	-	37.98	21.37	0.86	27.56
PK	113.42M	30.60	43.50	-12.90	-8.56	3	Vertical	0	1.00	-	39.16	17.14	1.63	27.33
PK	274.44M	35.73	46.00	-10.27	-6.09	3	Vertical	0	1.00	-	41.82	18.02	2.61	26.72
PK	307.42M	41.72	46.00	-4.28	-5.35	3	Vertical	0	1.00	-	47.07	18.61	2.78	26.74
PK	524.7M	31.73	46.00	-14.27	-1.45	3	Vertical	0	1.00	-	33.18	22.79	3.69	27.93
PK	575.14M	32.75	46.00	-13.25	-0.02	3	Vertical	0	1.00	-	32.77	24.10	3.93	28.05

802.11n HT20_Nss1,(MCS0)_1TX

16/04/2020

2437MHz_PoE

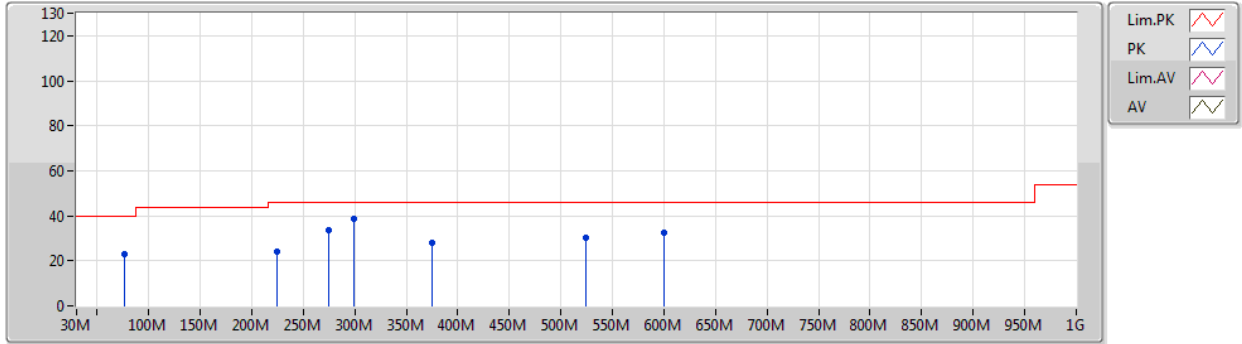


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	113.42M	34.11	43.50	-9.39	-8.56	3	Horizontal	360	1.00	-	42.67	17.14	1.63	27.33
PK	125.06M	35.07	43.50	-8.43	-8.37	3	Horizontal	360	1.00	-	43.44	17.20	1.72	27.29
PK	600.36M	36.25	46.00	-9.75	-0.20	3	Horizontal	360	1.00	-	36.45	23.77	4.08	28.05
PK	722.58M	40.06	46.00	-5.94	0.81	3	Horizontal	360	1.00	-	39.25	24.42	4.43	28.04
PK	897.18M	41.95	46.00	-4.05	3.02	3	Horizontal	360	1.00	-	38.93	25.56	4.97	27.51
QP	299.66M	39.69	46.00	-6.31	-5.54	3	Horizontal	209	1.01	-	45.23	18.41	2.75	26.70

802.11n HT20_Nss1,(MCS0)_1TX

23/03/2020

2437MHz_Adapter

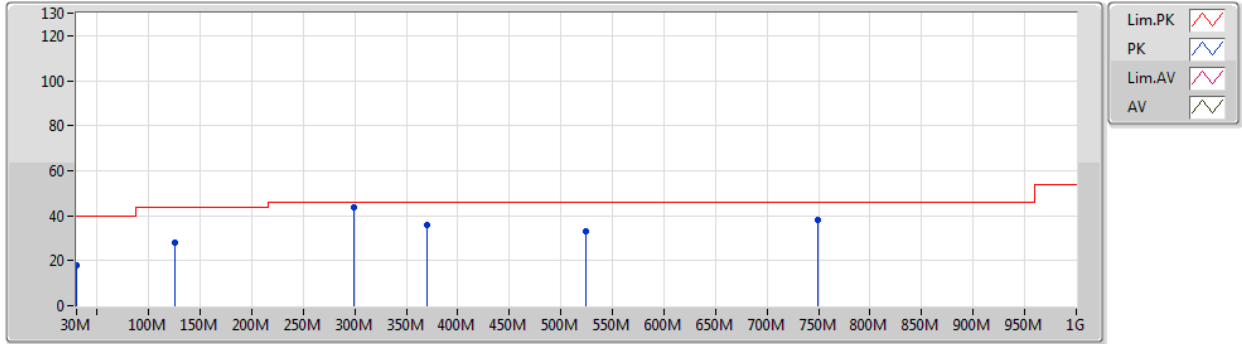


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	76.56M	22.97	40.00	-17.03	-14.48	3	Vertical	0	1.00	-	37.45	11.64	1.32	27.44
PK	224M	24.25	46.00	-21.75	-9.82	3	Vertical	0	1.00	-	34.07	14.68	2.34	26.84
PK	274.44M	33.36	46.00	-12.64	-6.09	3	Vertical	0	1.00	-	39.45	18.02	2.61	26.72
PK	299.66M	38.87	46.00	-7.13	-5.54	3	Vertical	0	1.00	-	44.41	18.41	2.75	26.70
PK	375.32M	28.08	46.00	-17.92	-3.96	3	Vertical	0	1.00	-	32.04	20.10	3.08	27.14
PK	524.7M	30.29	46.00	-15.71	-1.45	3	Vertical	0	1.00	-	31.74	22.79	3.69	27.93
PK	600.36M	32.62	46.00	-13.38	-0.20	3	Vertical	0	1.00	-	32.82	23.77	4.08	28.05

802.11n HT20_Nss1,(MCS0)_1TX

23/03/2020

2437MHz_Adapter



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	30M	17.82	40.00	-22.18	-3.29	3	Horizontal	0	1.00	-	21.11	23.48	0.80	27.57
PK	125.06M	27.80	43.50	-15.70	-8.37	3	Horizontal	0	1.00	-	36.17	17.20	1.72	27.29
PK	369.5M	35.81	46.00	-10.19	-4.01	3	Horizontal	0	1.00	-	39.82	20.04	3.05	27.10
PK	524.7M	33.08	46.00	-12.92	-1.45	3	Horizontal	0	1.00	-	34.53	22.79	3.69	27.93
PK	749.74M	38.09	46.00	-7.91	1.25	3	Horizontal	0	1.00	-	36.84	24.78	4.51	28.04
QP	299.66M	43.87	46.00	-2.13	-5.54	3	Horizontal	42	1.00	-	49.41	18.41	2.75	26.70



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	4.8239G	52.75	54.00	-1.25	3	Vertical	357	2.36	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4836G	53.72	54.00	-0.28	3	Vertical	360	2.81	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.39G	53.20	54.00	-0.80	3	Vertical	0	2.84	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.25	54.00	-1.75	3	Vertical	0	2.83	-
2412MHz	Pass	AV	2.411G	106.67	Inf	-Inf	3	Vertical	0	2.83	-
2412MHz	Pass	PK	2.3892G	62.02	74.00	-11.98	3	Vertical	0	2.83	-
2412MHz	Pass	PK	2.411G	109.02	Inf	-Inf	3	Vertical	0	2.83	-
2412MHz	Pass	AV	2.39G	51.09	54.00	-2.91	3	Horizontal	314	1.50	-
2412MHz	Pass	AV	2.4112G	102.86	Inf	-Inf	3	Horizontal	314	1.50	-
2412MHz	Pass	PK	2.39G	60.95	74.00	-13.05	3	Horizontal	314	1.50	-
2412MHz	Pass	PK	2.411G	105.21	Inf	-Inf	3	Horizontal	314	1.50	-
2412MHz	Pass	AV	4.8239G	52.75	54.00	-1.25	3	Vertical	357	2.36	-
2412MHz	Pass	PK	4.8239G	56.35	74.00	-17.65	3	Vertical	357	2.36	-
2412MHz	Pass	AV	4.82388G	49.68	54.00	-4.32	3	Horizontal	317	1.23	-
2412MHz	Pass	PK	4.8239G	54.59	74.00	-19.41	3	Horizontal	317	1.23	-
2437MHz	Pass	AV	2.3894G	48.57	54.00	-5.43	3	Vertical	0	2.78	-
2437MHz	Pass	AV	2.4362G	105.29	Inf	-Inf	3	Vertical	0	2.78	-
2437MHz	Pass	AV	2.4998G	49.98	54.00	-4.02	3	Vertical	0	2.78	-
2437MHz	Pass	PK	2.3826G	60.58	74.00	-13.42	3	Vertical	0	2.78	-
2437MHz	Pass	PK	2.4362G	107.69	Inf	-Inf	3	Vertical	0	2.78	-
2437MHz	Pass	PK	2.4906G	62.38	74.00	-11.62	3	Vertical	0	2.78	-
2437MHz	Pass	AV	2.389G	48.57	54.00	-5.43	3	Horizontal	39	2.72	-
2437MHz	Pass	AV	2.4362G	102.67	Inf	-Inf	3	Horizontal	39	2.72	-
2437MHz	Pass	AV	2.4986G	49.97	54.00	-4.03	3	Horizontal	39	2.72	-
2437MHz	Pass	PK	2.3802G	60.62	74.00	-13.38	3	Horizontal	39	2.72	-
2437MHz	Pass	PK	2.4362G	105.09	Inf	-Inf	3	Horizontal	39	2.72	-
2437MHz	Pass	PK	2.4854G	62.34	74.00	-11.66	3	Horizontal	39	2.72	-
2437MHz	Pass	AV	4.87388G	52.23	54.00	-1.77	3	Vertical	360	2.44	-
2437MHz	Pass	AV	7.30988G	45.31	54.00	-8.69	3	Vertical	180	1.94	-
2437MHz	Pass	PK	4.87388G	55.48	74.00	-18.52	3	Vertical	360	2.44	-
2437MHz	Pass	PK	7.30976G	55.43	74.00	-18.57	3	Vertical	180	1.94	-
2437MHz	Pass	AV	4.87392G	48.76	54.00	-5.24	3	Horizontal	113	2.22	-
2437MHz	Pass	AV	7.31G	45.86	54.00	-8.14	3	Horizontal	11	1.00	-
2437MHz	Pass	PK	4.87392G	53.15	74.00	-20.85	3	Horizontal	113	2.22	-
2437MHz	Pass	PK	7.3106G	55.95	74.00	-18.05	3	Horizontal	11	1.00	-
2462MHz	Pass	AV	2.4628G	105.27	Inf	-Inf	3	Vertical	359	2.80	-
2462MHz	Pass	AV	2.4835G	51.64	54.00	-2.36	3	Vertical	359	2.80	-
2462MHz	Pass	PK	2.4628G	107.60	Inf	-Inf	3	Vertical	359	2.80	-
2462MHz	Pass	PK	2.496G	62.38	74.00	-11.62	3	Vertical	359	2.80	-
2462MHz	Pass	AV	2.4628G	100.72	Inf	-Inf	3	Horizontal	343	1.01	-
2462MHz	Pass	AV	2.4835G	50.65	54.00	-3.35	3	Horizontal	343	1.01	-
2462MHz	Pass	PK	2.4628G	103.07	Inf	-Inf	3	Horizontal	343	1.01	-
2462MHz	Pass	PK	2.49G	62.24	74.00	-11.76	3	Horizontal	343	1.01	-
2462MHz	Pass	AV	4.92384G	52.03	54.00	-1.97	3	Vertical	354	2.10	-
2462MHz	Pass	AV	7.38484G	46.04	54.00	-7.96	3	Vertical	284	1.04	-
2462MHz	Pass	PK	4.92388G	55.64	74.00	-18.36	3	Vertical	354	2.10	-
2462MHz	Pass	PK	7.38636G	55.32	74.00	-18.68	3	Vertical	284	1.04	-
2462MHz	Pass	AV	4.92392G	47.34	54.00	-6.66	3	Horizontal	283	1.01	-
2462MHz	Pass	AV	7.385G	44.11	54.00	-9.89	3	Horizontal	0	1.02	-
2462MHz	Pass	PK	4.92388G	52.58	74.00	-21.42	3	Horizontal	283	1.01	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	7.38664G	55.29	74.00	-18.71	3	Horizontal	0	1.02	-
802.11g_Nss1_(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	53.20	54.00	-0.80	3	Vertical	0	2.82	-
2412MHz	Pass	AV	2.4114G	98.10	Inf	-Inf	3	Vertical	0	2.82	-
2412MHz	Pass	PK	2.39G	68.10	74.00	-5.90	3	Vertical	0	2.82	-
2412MHz	Pass	PK	2.4126G	106.45	Inf	-Inf	3	Vertical	0	2.82	-
2412MHz	Pass	AV	2.39G	51.09	54.00	-2.91	3	Horizontal	312	1.66	-
2412MHz	Pass	AV	2.4112G	94.04	Inf	-Inf	3	Horizontal	312	1.66	-
2412MHz	Pass	PK	2.3872G	64.87	74.00	-9.13	3	Horizontal	312	1.66	-
2412MHz	Pass	PK	2.4102G	102.29	Inf	-Inf	3	Horizontal	312	1.66	-
2412MHz	Pass	AV	4.8275G	37.42	54.00	-16.58	3	Vertical	357	2.10	-
2412MHz	Pass	PK	4.8276G	49.84	74.00	-24.16	3	Vertical	357	2.10	-
2412MHz	Pass	AV	4.82396G	36.87	54.00	-17.13	3	Horizontal	349	2.19	-
2412MHz	Pass	PK	4.82632G	50.18	74.00	-23.82	3	Horizontal	349	2.19	-
2417MHz	Pass	AV	2.39G	52.67	54.00	-1.33	3	Vertical	246	1.02	-
2417MHz	Pass	AV	2.4162G	97.01	Inf	-Inf	3	Vertical	246	1.02	-
2417MHz	Pass	PK	2.3892G	68.21	74.00	-5.79	3	Vertical	246	1.02	-
2417MHz	Pass	PK	2.4176G	105.38	Inf	-Inf	3	Vertical	246	1.02	-
2417MHz	Pass	AV	2.3898G	51.30	54.00	-2.70	3	Horizontal	314	1.50	-
2417MHz	Pass	AV	2.4162G	94.88	Inf	-Inf	3	Horizontal	314	1.50	-
2417MHz	Pass	PK	2.3894G	66.56	74.00	-7.44	3	Horizontal	314	1.50	-
2417MHz	Pass	PK	2.4176G	103.11	Inf	-Inf	3	Horizontal	314	1.50	-
2437MHz	Pass	AV	2.3898G	51.08	54.00	-2.92	3	Vertical	0	2.77	-
2437MHz	Pass	AV	2.4362G	103.97	Inf	-Inf	3	Vertical	0	2.77	-
2437MHz	Pass	AV	2.4842G	51.65	54.00	-2.35	3	Vertical	0	2.77	-
2437MHz	Pass	PK	2.389G	63.07	74.00	-10.93	3	Vertical	0	2.77	-
2437MHz	Pass	PK	2.4354G	112.07	Inf	-Inf	3	Vertical	0	2.77	-
2437MHz	Pass	PK	2.4842G	62.86	74.00	-11.14	3	Vertical	0	2.77	-
2437MHz	Pass	AV	2.3898G	49.93	54.00	-4.07	3	Horizontal	40	2.73	-
2437MHz	Pass	AV	2.4362G	101.14	Inf	-Inf	3	Horizontal	40	2.73	-
2437MHz	Pass	AV	2.4838G	50.65	54.00	-3.35	3	Horizontal	40	2.73	-
2437MHz	Pass	PK	2.3894G	61.40	74.00	-12.60	3	Horizontal	40	2.73	-
2437MHz	Pass	PK	2.4354G	109.32	Inf	-Inf	3	Horizontal	40	2.73	-
2437MHz	Pass	PK	2.4978G	61.96	74.00	-12.04	3	Horizontal	40	2.73	-
2437MHz	Pass	AV	4.8738G	44.50	54.00	-9.50	3	Vertical	359	2.44	-
2437MHz	Pass	AV	7.312G	44.08	54.00	-9.92	3	Vertical	177	2.04	-
2437MHz	Pass	PK	4.8732G	57.00	74.00	-17.00	3	Vertical	359	2.44	-
2437MHz	Pass	PK	7.3139G	56.73	74.00	-17.27	3	Vertical	177	2.04	-
2437MHz	Pass	AV	4.8731G	40.98	54.00	-13.02	3	Horizontal	321	1.00	-
2437MHz	Pass	AV	7.313G	44.41	54.00	-9.59	3	Horizontal	10	1.00	-
2437MHz	Pass	PK	4.8729G	53.34	74.00	-20.66	3	Horizontal	321	1.00	-
2437MHz	Pass	PK	7.3133G	56.84	74.00	-17.16	3	Horizontal	10	1.00	-
2457MHz	Pass	AV	2.4562G	101.26	Inf	-Inf	3	Vertical	360	2.81	-
2457MHz	Pass	AV	2.4836G	53.72	54.00	-0.28	3	Vertical	360	2.81	-
2457MHz	Pass	PK	2.4552G	109.41	Inf	-Inf	3	Vertical	360	2.81	-
2457MHz	Pass	PK	2.4835G	66.30	74.00	-7.70	3	Vertical	360	2.81	-
2457MHz	Pass	AV	2.4562G	96.24	Inf	-Inf	3	Horizontal	311	1.37	-
2457MHz	Pass	AV	2.486G	51.43	54.00	-2.57	3	Horizontal	311	1.37	-
2457MHz	Pass	PK	2.4576G	104.43	Inf	-Inf	3	Horizontal	311	1.37	-

Remark :

Page No. : F3 of F49

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2457MHz	Pass	PK	2.4854G	64.01	74.00	-9.99	3	Horizontal	311	1.37	-
2462MHz	Pass	AV	2.4612G	98.89	Inf	-Inf	3	Vertical	360	2.80	-
2462MHz	Pass	AV	2.4846G	52.12	54.00	-1.88	3	Vertical	360	2.80	-
2462MHz	Pass	PK	2.4626G	107.41	Inf	-Inf	3	Vertical	360	2.80	-
2462MHz	Pass	PK	2.4836G	69.78	74.00	-4.22	3	Vertical	360	2.80	-
2462MHz	Pass	AV	2.4626G	94.45	Inf	-Inf	3	Horizontal	312	1.40	-
2462MHz	Pass	AV	2.4846G	50.67	54.00	-3.33	3	Horizontal	312	1.40	-
2462MHz	Pass	PK	2.4626G	103.08	Inf	-Inf	3	Horizontal	312	1.40	-
2462MHz	Pass	PK	2.4835G	64.53	74.00	-9.47	3	Horizontal	312	1.40	-
2462MHz	Pass	AV	4.92578G	37.55	54.00	-16.45	3	Vertical	297	1.32	-
2462MHz	Pass	PK	4.92318G	49.52	74.00	-24.48	3	Vertical	297	1.32	-
2462MHz	Pass	AV	4.92662G	36.43	54.00	-17.57	3	Horizontal	138	2.06	-
2462MHz	Pass	PK	4.92672G	48.60	74.00	-25.40	3	Horizontal	138	2.06	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	53.20	54.00	-0.80	3	Vertical	0	2.84	-
2412MHz	Pass	AV	2.4114G	98.25	Inf	-Inf	3	Vertical	0	2.84	-
2412MHz	Pass	PK	2.3888G	70.32	74.00	-3.68	3	Vertical	0	2.84	-
2412MHz	Pass	PK	2.4098G	106.89	Inf	-Inf	3	Vertical	0	2.84	-
2412MHz	Pass	AV	2.39G	51.51	54.00	-2.49	3	Horizontal	314	1.50	-
2412MHz	Pass	AV	2.4114G	93.94	Inf	-Inf	3	Horizontal	314	1.50	-
2412MHz	Pass	PK	2.3896G	66.71	74.00	-7.29	3	Horizontal	314	1.50	-
2412MHz	Pass	PK	2.4128G	102.65	Inf	-Inf	3	Horizontal	314	1.50	-
2412MHz	Pass	AV	4.8236G	37.64	54.00	-16.36	3	Vertical	360	2.35	-
2412MHz	Pass	PK	4.8206G	50.19	74.00	-23.81	3	Vertical	360	2.35	-
2412MHz	Pass	AV	4.8248G	36.53	54.00	-17.47	3	Horizontal	133	1.02	-
2412MHz	Pass	PK	4.82268G	49.55	74.00	-24.45	3	Horizontal	133	1.02	-
2417MHz	Pass	AV	2.39G	51.51	54.00	-2.49	3	Vertical	247	1.02	-
2417MHz	Pass	AV	2.4164G	97.03	Inf	-Inf	3	Vertical	247	1.02	-
2417MHz	Pass	PK	2.3894G	68.09	74.00	-5.91	3	Vertical	247	1.02	-
2417MHz	Pass	PK	2.417G	105.71	Inf	-Inf	3	Vertical	247	1.02	-
2417MHz	Pass	AV	2.3898G	50.86	54.00	-3.14	3	Horizontal	313	1.50	-
2417MHz	Pass	AV	2.4162G	95.15	Inf	-Inf	3	Horizontal	313	1.50	-
2417MHz	Pass	PK	2.39G	65.93	74.00	-8.07	3	Horizontal	313	1.50	-
2417MHz	Pass	PK	2.416G	104.39	Inf	-Inf	3	Horizontal	313	1.50	-
2437MHz	Pass	AV	2.3898G	50.64	54.00	-3.36	3	Vertical	10	2.78	-
2437MHz	Pass	AV	2.4358G	103.25	Inf	-Inf	3	Vertical	10	2.78	-
2437MHz	Pass	AV	2.4842G	51.41	54.00	-2.59	3	Vertical	10	2.78	-
2437MHz	Pass	PK	2.3882G	61.69	74.00	-12.31	3	Vertical	10	2.78	-
2437MHz	Pass	PK	2.4354G	112.14	Inf	-Inf	3	Vertical	10	2.78	-
2437MHz	Pass	PK	2.4838G	62.85	74.00	-11.15	3	Vertical	10	2.78	-
2437MHz	Pass	AV	2.3886G	49.90	54.00	-4.10	3	Horizontal	40	2.72	-
2437MHz	Pass	AV	2.4362G	100.76	Inf	-Inf	3	Horizontal	40	2.72	-
2437MHz	Pass	AV	2.491G	50.46	54.00	-3.54	3	Horizontal	40	2.72	-
2437MHz	Pass	PK	2.3822G	61.12	74.00	-12.88	3	Horizontal	40	2.72	-
2437MHz	Pass	PK	2.437G	109.43	Inf	-Inf	3	Horizontal	40	2.72	-
2437MHz	Pass	PK	2.4846G	62.34	74.00	-11.66	3	Horizontal	40	2.72	-
2437MHz	Pass	AV	4.8713G	43.83	54.00	-10.17	3	Vertical	360	2.18	-
2437MHz	Pass	AV	7.3091G	44.40	54.00	-9.60	3	Vertical	284	1.09	-
2437MHz	Pass	PK	4.8741G	57.20	74.00	-16.80	3	Vertical	360	2.18	-

Remark :

Page No. : F4 of F49

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

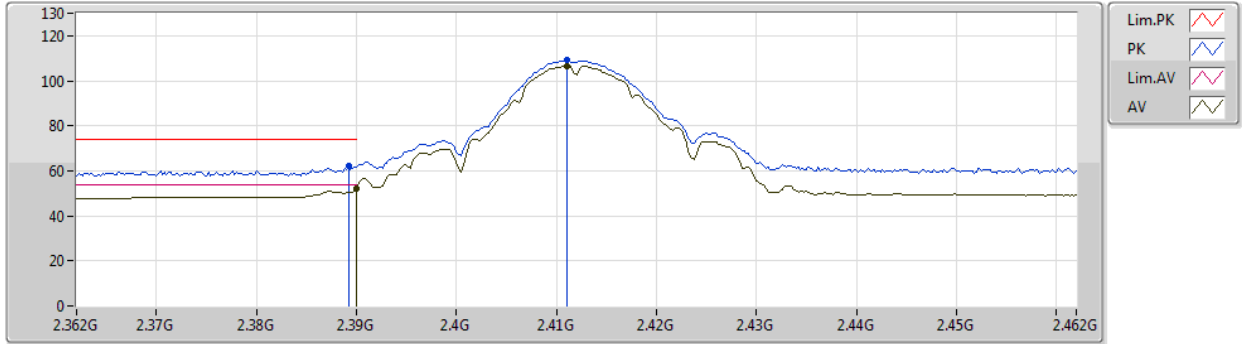


Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	7.3086G	56.46	74.00	-17.54	3	Vertical	284	1.09	-
2437MHz	Pass	AV	4.87372G	41.62	54.00	-12.38	3	Horizontal	57	1.90	-
2437MHz	Pass	AV	7.31128G	44.93	54.00	-9.07	3	Horizontal	232	1.48	-
2437MHz	Pass	PK	4.8716G	55.21	74.00	-18.79	3	Horizontal	57	1.90	-
2437MHz	Pass	PK	7.30682G	56.09	74.00	-17.91	3	Horizontal	232	1.48	-
2457MHz	Pass	AV	2.4564G	101.51	Inf	-Inf	3	Vertical	0	2.81	-
2457MHz	Pass	AV	2.4842G	53.16	54.00	-0.84	3	Vertical	0	2.81	-
2457MHz	Pass	PK	2.4554G	110.29	Inf	-Inf	3	Vertical	0	2.81	-
2457MHz	Pass	PK	2.4836G	67.51	74.00	-6.49	3	Vertical	0	2.81	-
2457MHz	Pass	AV	2.4562G	96.69	Inf	-Inf	3	Horizontal	311	1.53	-
2457MHz	Pass	AV	2.4844G	51.18	54.00	-2.82	3	Horizontal	311	1.53	-
2457MHz	Pass	PK	2.4552G	106.66	Inf	-Inf	3	Horizontal	311	1.53	-
2457MHz	Pass	PK	2.4836G	63.22	74.00	-10.78	3	Horizontal	311	1.53	-
2462MHz	Pass	AV	2.4626G	99.68	Inf	-Inf	3	Vertical	360	2.80	-
2462MHz	Pass	AV	2.4838G	53.15	54.00	-0.85	3	Vertical	360	2.80	-
2462MHz	Pass	PK	2.4598G	107.97	Inf	-Inf	3	Vertical	360	2.80	-
2462MHz	Pass	PK	2.4852G	71.39	74.00	-2.61	3	Vertical	360	2.80	-
2462MHz	Pass	AV	2.4626G	94.96	Inf	-Inf	3	Horizontal	311	1.39	-
2462MHz	Pass	AV	2.4848G	50.93	54.00	-3.07	3	Horizontal	311	1.39	-
2462MHz	Pass	PK	2.4596G	103.86	Inf	-Inf	3	Horizontal	311	1.39	-
2462MHz	Pass	PK	2.4856G	65.51	74.00	-8.49	3	Horizontal	311	1.39	-
2462MHz	Pass	AV	4.92622G	36.29	54.00	-17.71	3	Vertical	80	2.15	-
2462MHz	Pass	PK	4.9227G	48.19	74.00	-25.81	3	Vertical	80	2.15	-
2462MHz	Pass	AV	4.92436G	35.26	54.00	-18.74	3	Horizontal	223	2.39	-
2462MHz	Pass	PK	4.92858G	47.20	74.00	-26.80	3	Horizontal	223	2.39	-

802.11b_Nss1,(1Mbps)_1TX

22/03/2020

2412MHz_TX

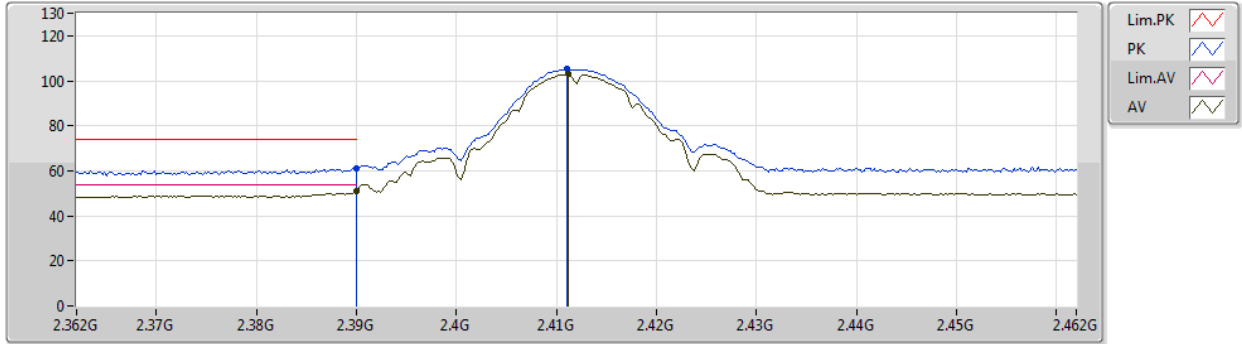


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.25	54.00	-1.75	33.60	3	Vertical	0	2.83	-	18.65	29.60	4.00	-
AV	2.411G	106.67	Inf	-Inf	33.74	3	Vertical	0	2.83	-	72.93	29.72	4.02	-
PK	2.3892G	62.02	74.00	-11.98	33.59	3	Vertical	0	2.83	-	28.43	29.59	4.00	-
PK	2.411G	109.02	Inf	-Inf	33.74	3	Vertical	0	2.83	-	75.28	29.72	4.02	-

802.11b_Nss1,(1Mbps)_1TX

22/03/2020

2412MHz_TX



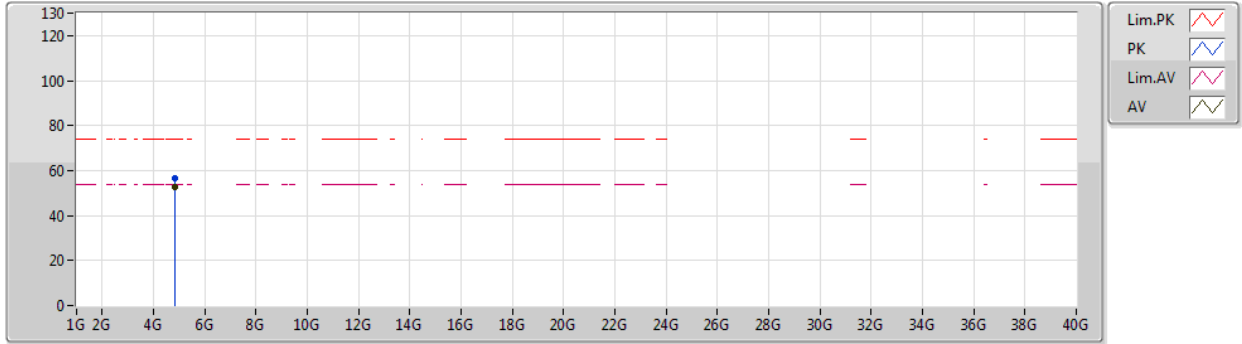
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.09	54.00	-2.91	33.60	3	Horizontal	314	1.50	-	17.49	29.60	4.00	-
AV	2.4112G	102.86	Inf	-Inf	33.74	3	Horizontal	314	1.50	-	69.12	29.72	4.02	-
PK	2.39G	60.95	74.00	-13.05	33.60	3	Horizontal	314	1.50	-	27.35	29.60	4.00	-
PK	2.411G	105.21	Inf	-Inf	33.74	3	Horizontal	314	1.50	-	71.47	29.72	4.02	-



802.11b_Nss1,(1Mbps)_1TX

22/03/2020

2412MHz_TX



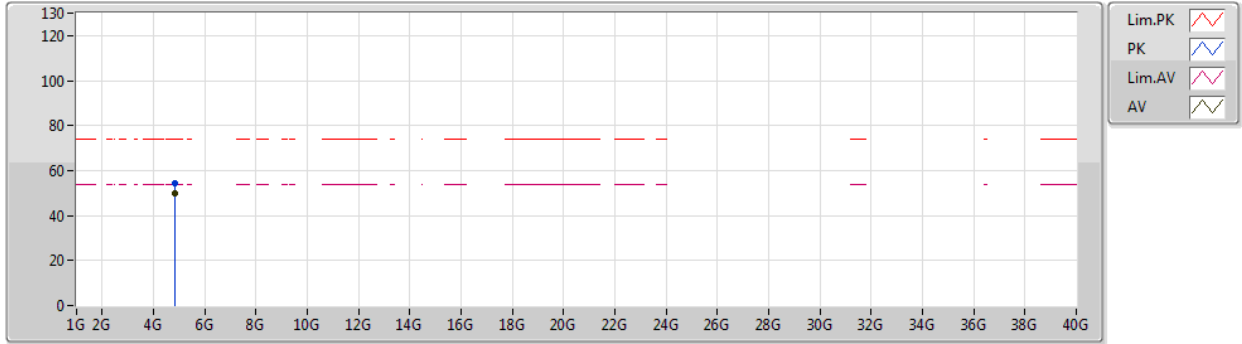
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8239G	52.75	54.00	-1.25	10.04	3	Vertical	357	2.36	-	42.71	33.65	5.79	29.40
PK	4.8239G	56.35	74.00	-17.65	10.04	3	Vertical	357	2.36	-	46.31	33.65	5.79	29.40



802.11b_Nss1,(1Mbps)_1TX

22/03/2020

2412MHz_TX

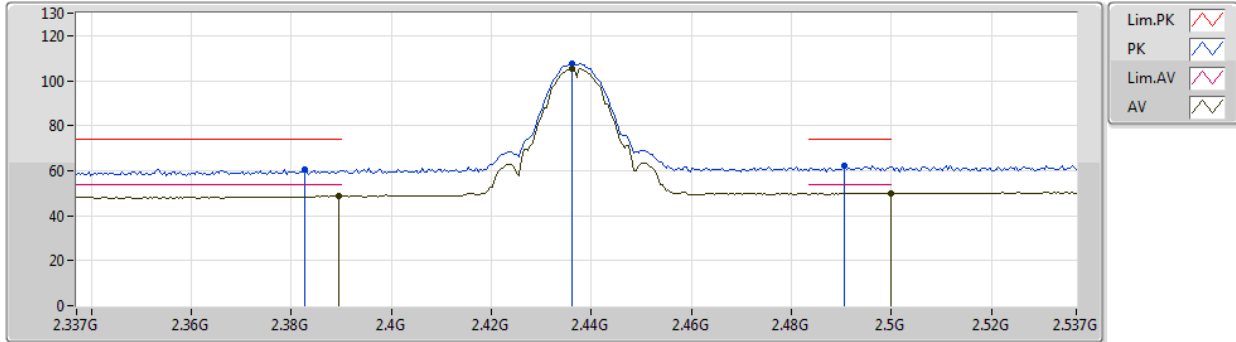


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82388G	49.68	54.00	-4.32	10.04	3	Horizontal	317	1.23	-	39.64	33.65	5.79	29.40
PK	4.8239G	54.59	74.00	-19.41	10.04	3	Horizontal	317	1.23	-	44.55	33.65	5.79	29.40

802.11b_Nss1,(1Mbps)_1TX

22/03/2020

2437MHz_TX

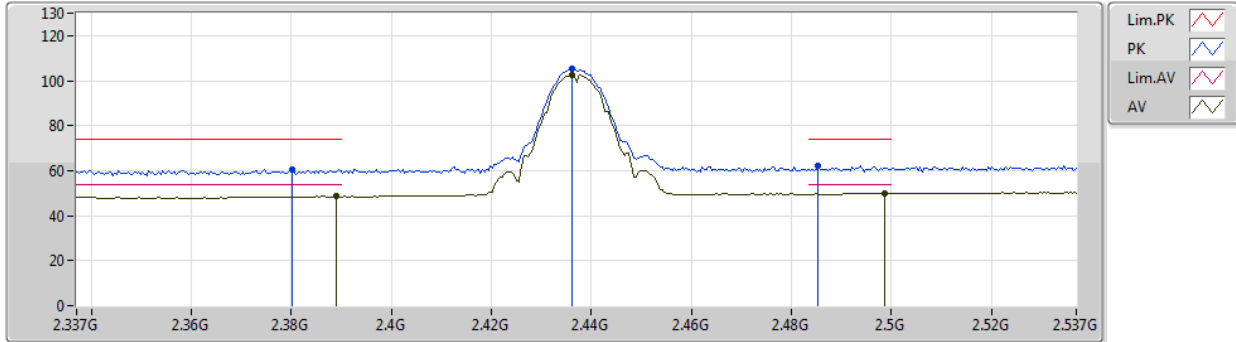


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	48.57	54.00	-5.43	33.59	3	Vertical	0	2.78	-	14.98	29.59	4.00	-
AV	2.4362G	105.29	Inf	-Inf	33.81	3	Vertical	0	2.78	-	71.48	29.77	4.04	-
AV	2.4998G	49.98	54.00	-4.02	34.30	3	Vertical	0	2.78	-	15.68	30.20	4.10	-
PK	2.3826G	60.58	74.00	-13.42	33.52	3	Vertical	0	2.78	-	27.06	29.53	3.99	-
PK	2.4362G	107.69	Inf	-Inf	33.81	3	Vertical	0	2.78	-	73.88	29.77	4.04	-
PK	2.4906G	62.38	74.00	-11.62	34.21	3	Vertical	0	2.78	-	28.17	30.12	4.09	-

802.11b_Nss1,(1Mbps)_1TX

22/03/2020

2437MHz_TX

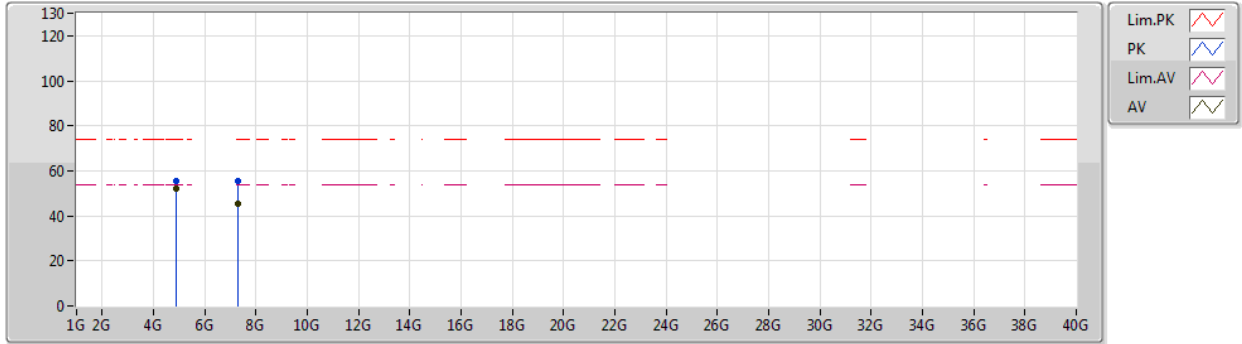


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.389G	48.57	54.00	-5.43	33.59	3	Horizontal	39	2.72	-	14.98	29.59	4.00	-
AV	2.4362G	102.67	Inf	-Inf	33.81	3	Horizontal	39	2.72	-	68.86	29.77	4.04	-
AV	2.4986G	49.97	54.00	-4.03	34.29	3	Horizontal	39	2.72	-	15.68	30.19	4.10	-
PK	2.3802G	60.62	74.00	-13.38	33.49	3	Horizontal	39	2.72	-	27.13	29.50	3.99	-
PK	2.4362G	105.09	Inf	-Inf	33.81	3	Horizontal	39	2.72	-	71.28	29.77	4.04	-
PK	2.4854G	62.34	74.00	-11.66	34.17	3	Horizontal	39	2.72	-	28.17	30.08	4.09	-

802.11b_Nss1,(1Mbps)_1TX

22/03/2020

2437MHz_TX



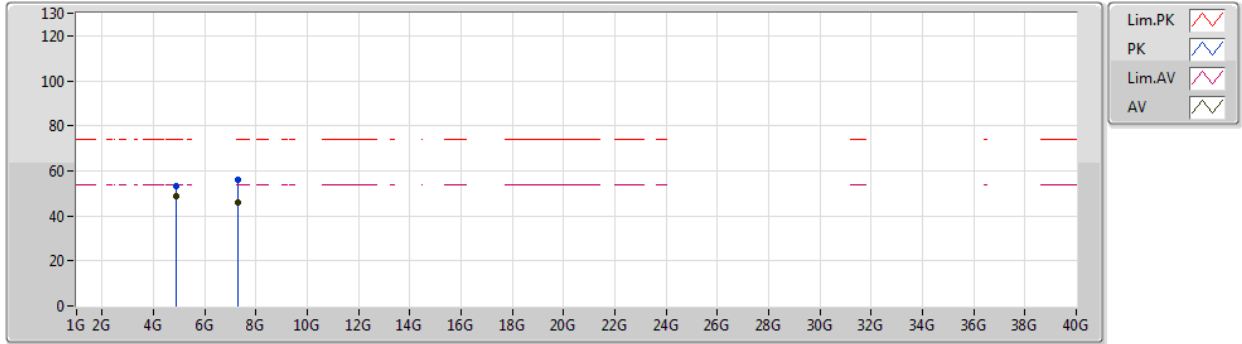
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87388G	52.23	54.00	-1.77	10.20	3	Vertical	360	2.44	-	42.03	33.75	5.83	29.38
AV	7.30988G	45.31	54.00	-8.69	16.04	3	Vertical	180	1.94	-	29.27	38.92	7.48	30.36
PK	4.87388G	55.48	74.00	-18.52	10.20	3	Vertical	360	2.44	-	45.28	33.75	5.83	29.38
PK	7.30976G	55.43	74.00	-18.57	16.04	3	Vertical	180	1.94	-	39.39	38.92	7.48	30.36



802.11b_Nss1,(1Mbps)_1TX

22/03/2020

2437MHz_TX

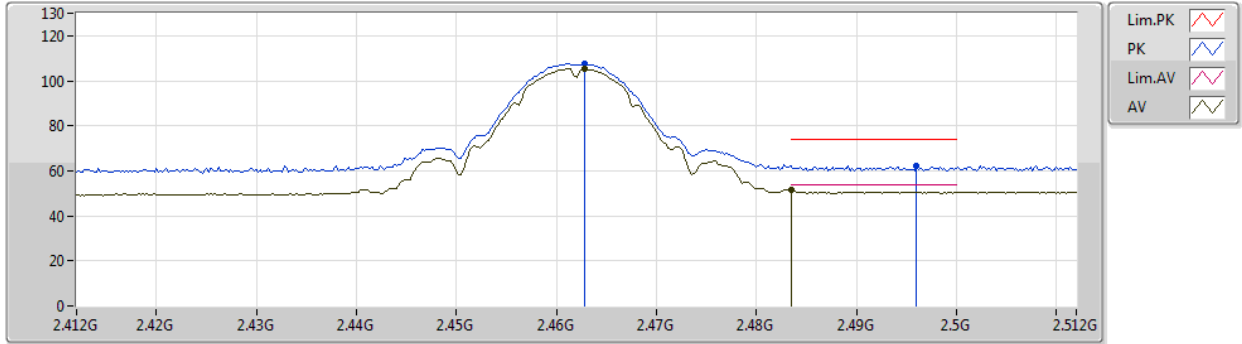


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87392G	48.76	54.00	-5.24	10.20	3	Horizontal	113	2.22	-	38.56	33.75	5.83	29.38
AV	7.31G	45.86	54.00	-8.14	16.04	3	Horizontal	11	1.00	-	29.82	38.92	7.48	30.36
PK	4.87392G	53.15	74.00	-20.85	10.20	3	Horizontal	113	2.22	-	42.95	33.75	5.83	29.38
PK	7.3106G	55.95	74.00	-18.05	16.04	3	Horizontal	11	1.00	-	39.91	38.92	7.48	30.36

802.11b_Nss1,(1Mbps)_1TX

22/03/2020

2462MHz_TX

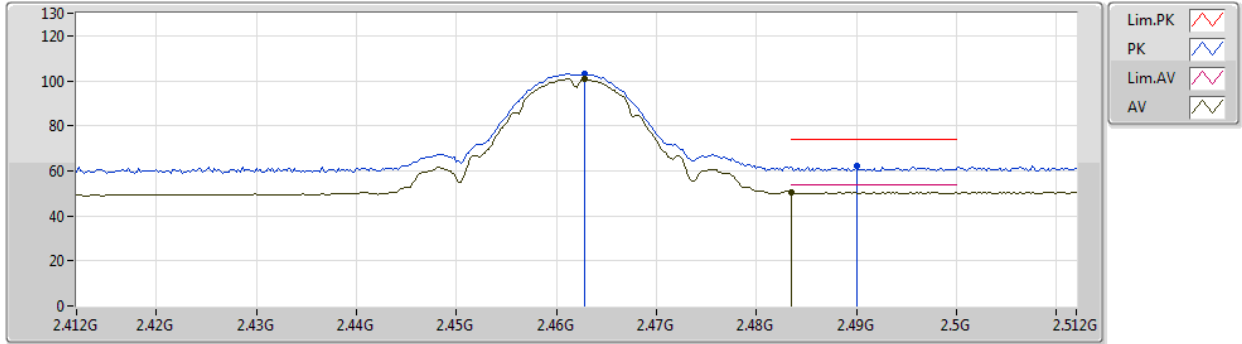


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4628G	105.27	Inf	-Inf	33.97	3	Vertical	359	2.80	-	71.30	29.90	4.07	-
AV	2.4835G	51.64	54.00	-2.36	34.15	3	Vertical	359	2.80	-	17.49	30.07	4.08	-
PK	2.4628G	107.60	Inf	-Inf	33.97	3	Vertical	359	2.80	-	73.63	29.90	4.07	-
PK	2.496G	62.38	74.00	-11.62	34.27	3	Vertical	359	2.80	-	28.11	30.17	4.10	-

802.11b_Nss1,(1Mbps)_1TX

22/03/2020

2462MHz_TX



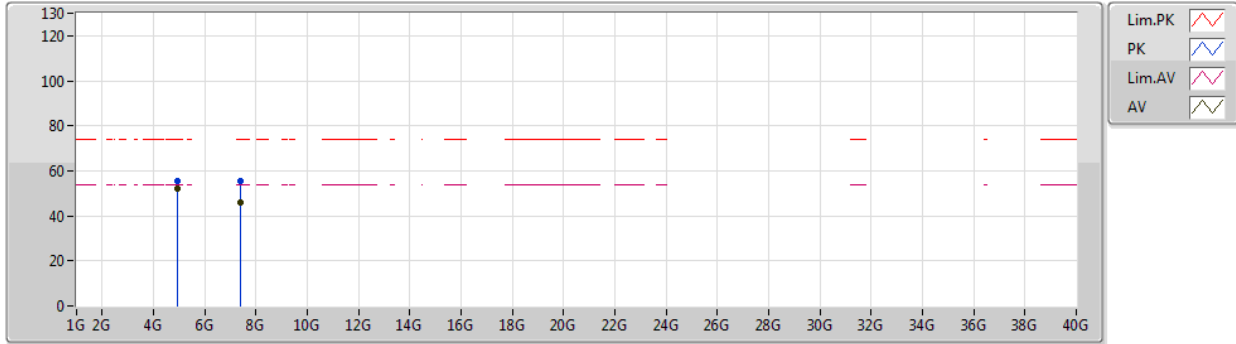
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AV	2.4628G	100.72	Inf	-Inf	33.97	3	Horizontal	343	1.01	-	66.75	29.90	4.07	-
AV	2.4835G	50.65	54.00	-3.35	34.15	3	Horizontal	343	1.01	-	16.50	30.07	4.08	-
PK	2.4628G	103.07	Inf	-Inf	33.97	3	Horizontal	343	1.01	-	69.10	29.90	4.07	-
PK	2.49G	62.24	74.00	-11.76	34.21	3	Horizontal	343	1.01	-	28.03	30.12	4.09	-



802.11b_Nss1,(1Mbps)_1TX

22/03/2020

2462MHz_TX

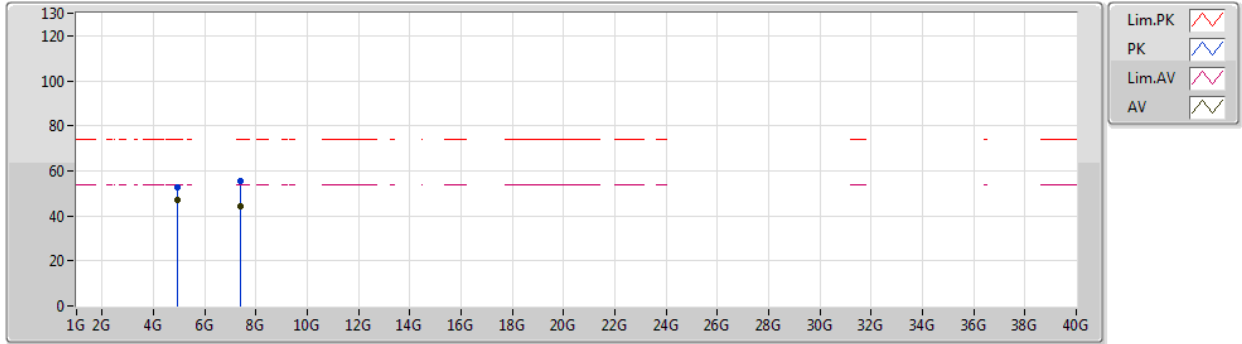


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92384G	52.03	54.00	-1.97	10.36	3	Vertical	354	2.10	-	41.67	33.85	5.87	29.36
AV	7.38484G	46.04	54.00	-7.96	15.85	3	Vertical	284	1.04	-	30.19	38.93	7.34	30.42
PK	4.92388G	55.64	74.00	-18.36	10.36	3	Vertical	354	2.10	-	45.28	33.85	5.87	29.36
PK	7.38636G	55.32	74.00	-18.68	15.85	3	Vertical	284	1.04	-	39.47	38.93	7.34	30.42

802.11b_Nss1,(1Mbps)_1TX

22/03/2020

2462MHz_TX



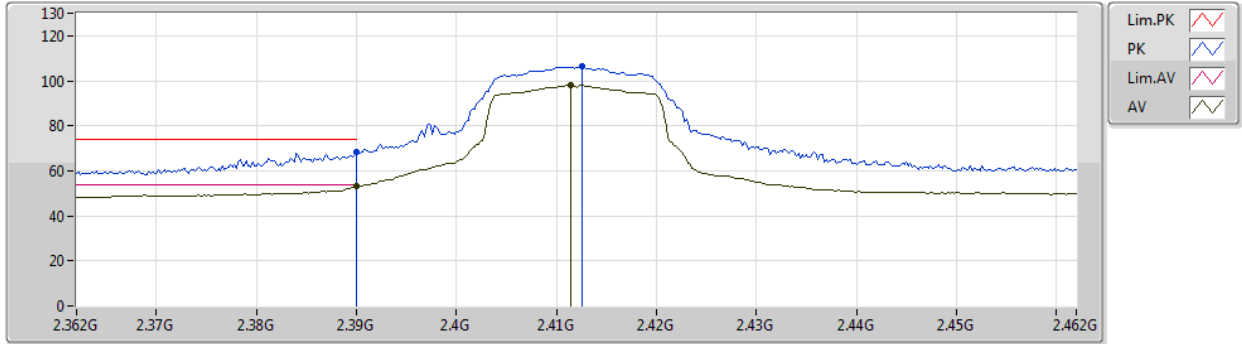
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AV	4.92392G	47.34	54.00	-6.66	10.37	3	Horizontal	283	1.01	-	36.97	33.85	5.87	29.35
AV	7.385G	44.11	54.00	-9.89	15.85	3	Horizontal	0	1.02	-	28.26	38.93	7.34	30.42
PK	4.92388G	52.58	74.00	-21.42	10.36	3	Horizontal	283	1.01	-	42.22	33.85	5.87	29.36
PK	7.38664G	55.29	74.00	-18.71	15.85	3	Horizontal	0	1.02	-	39.44	38.93	7.34	30.42



802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2412MHz_TX

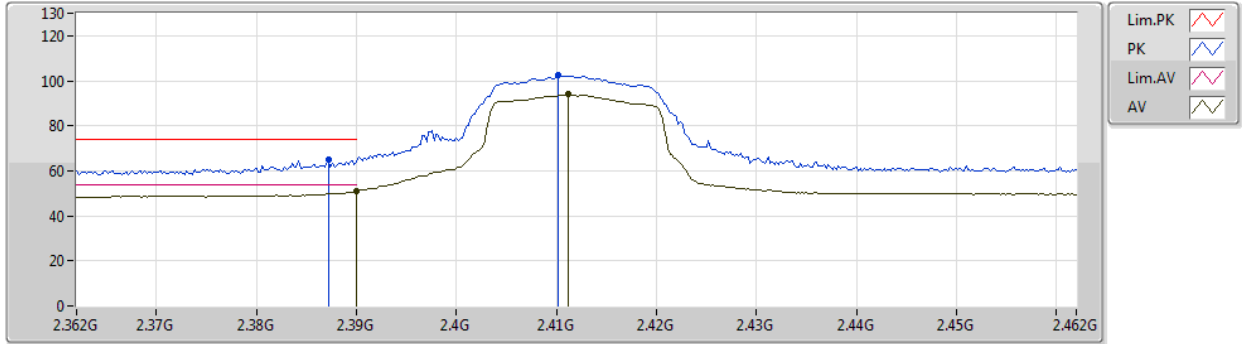


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.20	54.00	-0.80	33.60	3	Vertical	0	2.82	-	19.60	29.60	4.00	-
AV	2.4114G	98.10	Inf	-Inf	33.74	3	Vertical	0	2.82	-	64.36	29.72	4.02	-
PK	2.39G	68.10	74.00	-5.90	33.60	3	Vertical	0	2.82	-	34.50	29.60	4.00	-
PK	2.4126G	106.45	Inf	-Inf	33.75	3	Vertical	0	2.82	-	72.70	29.73	4.02	-

802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2412MHz_TX



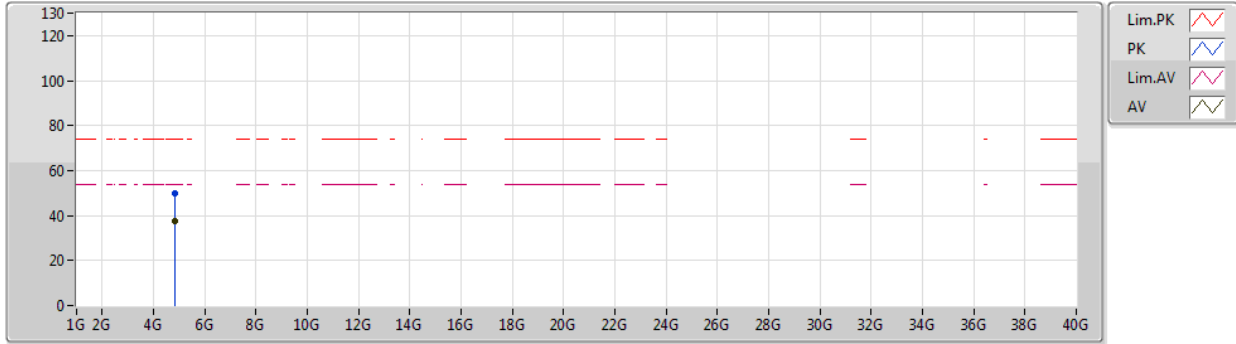
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AV	2.39G	51.09	54.00	-2.91	33.60	3	Horizontal	312	1.66	-	17.49	29.60	4.00	-
AV	2.4112G	94.04	Inf	-Inf	33.74	3	Horizontal	312	1.66	-	60.30	29.72	4.02	-
PK	2.3872G	64.87	74.00	-9.13	33.56	3	Horizontal	312	1.66	-	31.31	29.57	3.99	-
PK	2.4102G	102.29	Inf	-Inf	33.74	3	Horizontal	312	1.66	-	68.55	29.72	4.02	-



802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2412MHz_TX



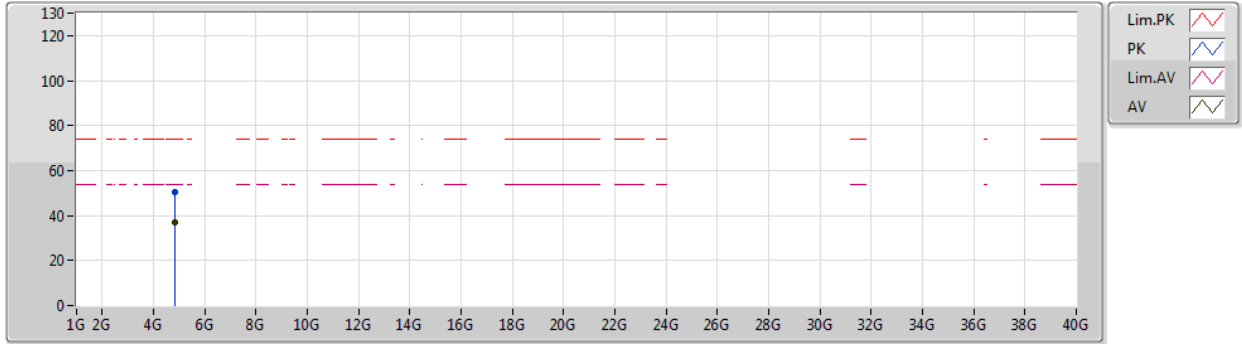
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AV	4.8275G	37.42	54.00	-16.58	10.06	3	Vertical	357	2.10	-	27.36	33.66	5.80	29.40
PK	4.8276G	49.84	74.00	-24.16	10.06	3	Vertical	357	2.10	-	39.78	33.66	5.80	29.40



802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2412MHz_TX



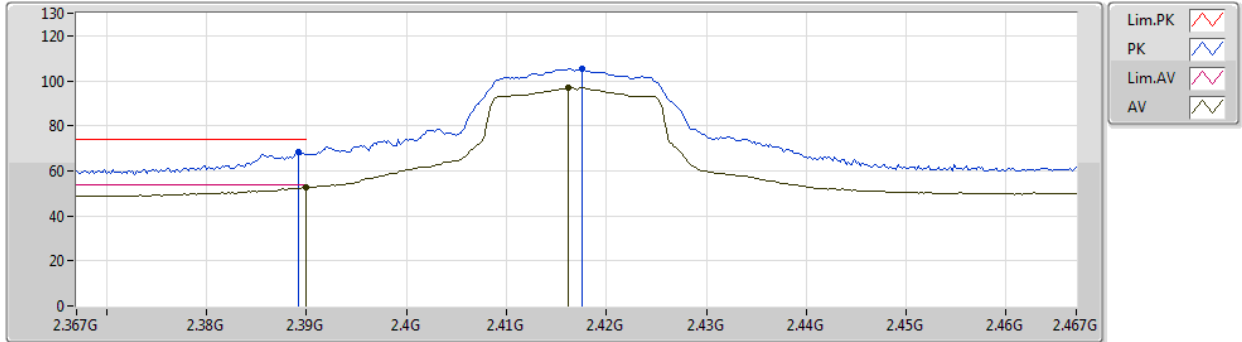
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AV	4.82396G	36.87	54.00	-17.13	10.04	3	Horizontal	349	2.19	-	26.83	33.65	5.79	29.40
PK	4.82632G	50.18	74.00	-23.82	10.04	3	Horizontal	349	2.19	-	40.14	33.65	5.79	29.40



802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2417MHz_TX

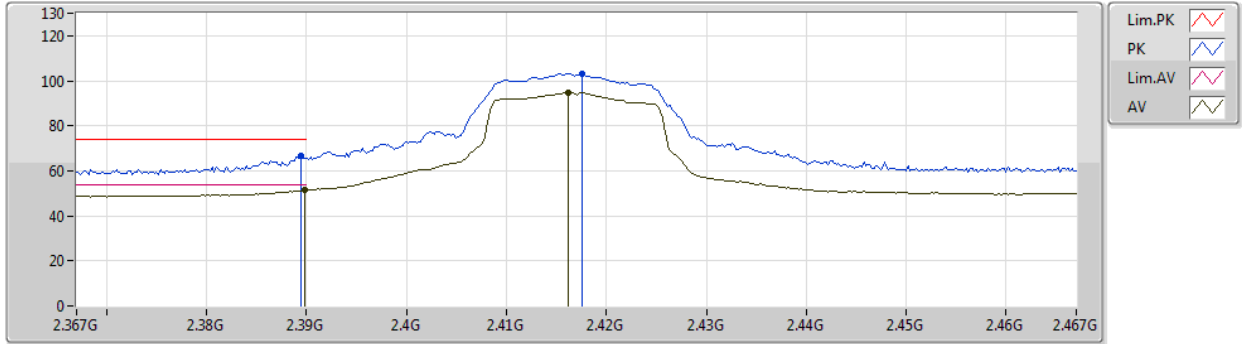


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.67	54.00	-1.33	33.60	3	Vertical	246	1.02	-	19.07	29.60	4.00	-
AV	2.4162G	97.01	Inf	-Inf	33.75	3	Vertical	246	1.02	-	63.26	29.73	4.02	-
PK	2.3892G	68.21	74.00	-5.79	33.59	3	Vertical	246	1.02	-	34.62	29.59	4.00	-
PK	2.4176G	105.38	Inf	-Inf	33.76	3	Vertical	246	1.02	-	71.62	29.74	4.02	-

802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2417MHz_TX

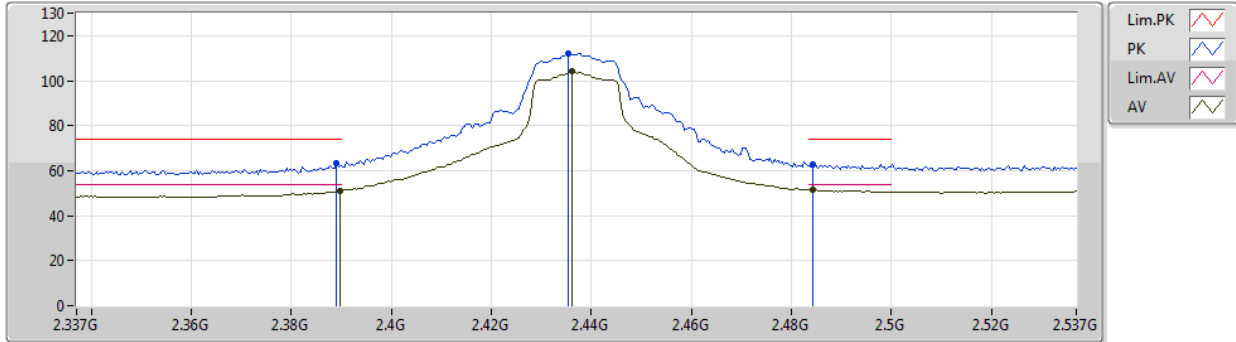


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	51.30	54.00	-2.70	33.60	3	Horizontal	314	1.50	-	17.70	29.60	4.00	-
AV	2.4162G	94.88	Inf	-Inf	33.75	3	Horizontal	314	1.50	-	61.13	29.73	4.02	-
PK	2.3894G	66.56	74.00	-7.44	33.59	3	Horizontal	314	1.50	-	32.97	29.59	4.00	-
PK	2.4176G	103.11	Inf	-Inf	33.76	3	Horizontal	314	1.50	-	69.35	29.74	4.02	-

802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2437MHz_TX

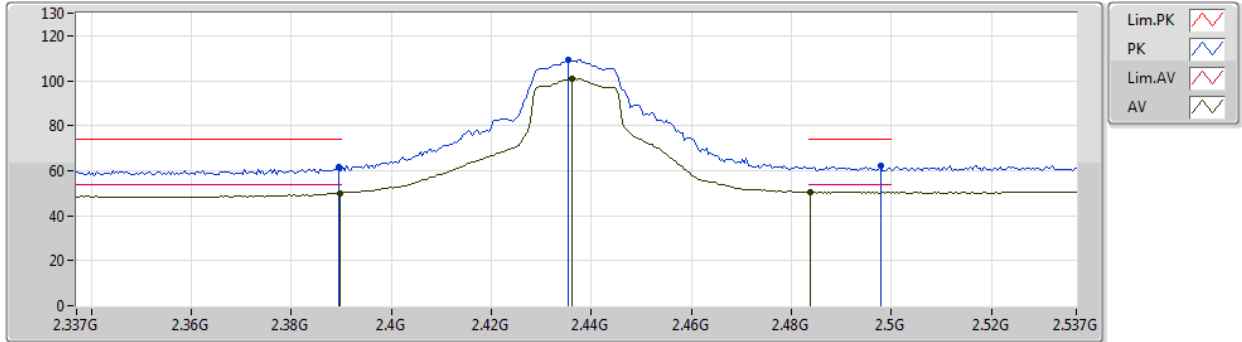


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	51.08	54.00	-2.92	33.60	3	Vertical	0	2.77	-	17.48	29.60	4.00	-
AV	2.4362G	103.97	Inf	-Inf	33.81	3	Vertical	0	2.77	-	70.16	29.77	4.04	-
AV	2.4842G	51.65	54.00	-2.35	34.16	3	Vertical	0	2.77	-	17.49	30.07	4.09	-
PK	2.389G	63.07	74.00	-10.93	33.59	3	Vertical	0	2.77	-	29.48	29.59	4.00	-
PK	2.4354G	112.07	Inf	-Inf	33.81	3	Vertical	0	2.77	-	78.26	29.77	4.04	-
PK	2.4842G	62.86	74.00	-11.14	34.16	3	Vertical	0	2.77	-	28.70	30.07	4.09	-

802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2437MHz_TX

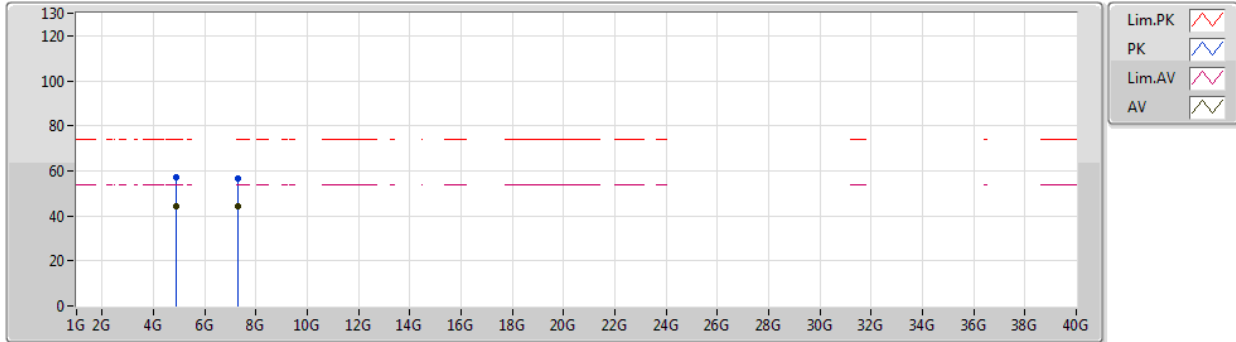


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	49.93	54.00	-4.07	33.60	3	Horizontal	40	2.73	-	16.33	29.60	4.00	-
AV	2.4362G	101.14	Inf	-Inf	33.81	3	Horizontal	40	2.73	-	67.33	29.77	4.04	-
AV	2.4838G	50.65	54.00	-3.35	34.15	3	Horizontal	40	2.73	-	16.50	30.07	4.08	-
PK	2.3894G	61.40	74.00	-12.60	33.59	3	Horizontal	40	2.73	-	27.81	29.59	4.00	-
PK	2.4354G	109.32	Inf	-Inf	33.81	3	Horizontal	40	2.73	-	75.51	29.77	4.04	-
PK	2.4978G	61.96	74.00	-12.04	34.28	3	Horizontal	40	2.73	-	27.68	30.18	4.10	-

802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2437MHz_TX



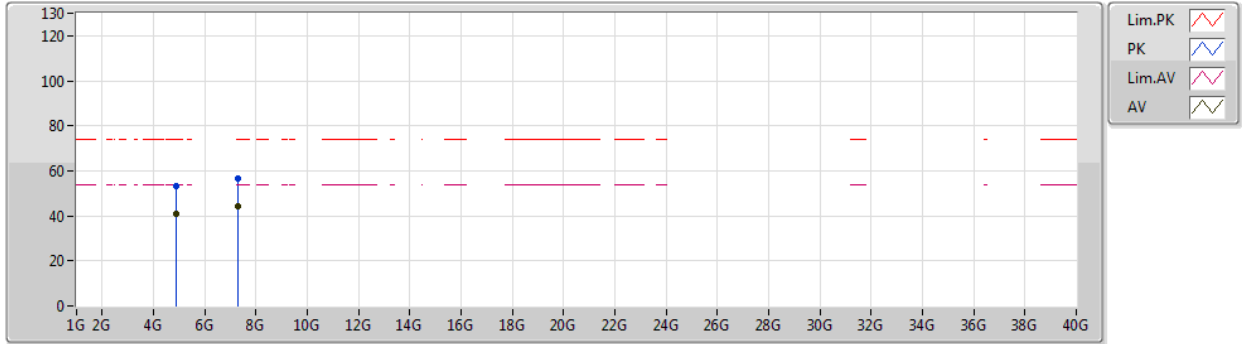
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8738G	44.50	54.00	-9.50	10.20	3	Vertical	359	2.44	-	34.30	33.75	5.83	29.38
AV	7.312G	44.08	54.00	-9.92	16.04	3	Vertical	177	2.04	-	28.04	38.92	7.48	30.36
PK	4.8732G	57.00	74.00	-17.00	10.20	3	Vertical	359	2.44	-	46.80	33.75	5.83	29.38
PK	7.3139G	56.73	74.00	-17.27	16.04	3	Vertical	177	2.04	-	40.69	38.93	7.47	30.36



802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2437MHz_TX

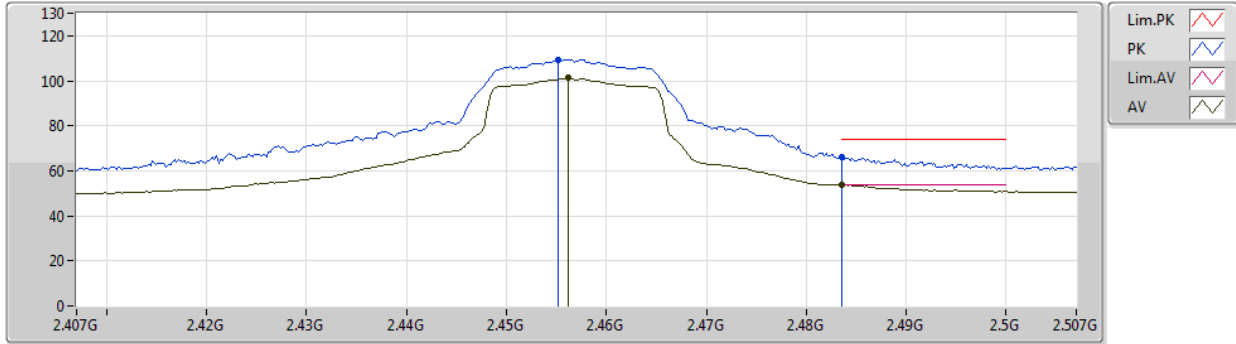


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8731G	40.98	54.00	-13.02	10.20	3	Horizontal	321	1.00	-	30.78	33.75	5.83	29.38
AV	7.313G	44.41	54.00	-9.59	16.04	3	Horizontal	10	1.00	-	28.37	38.93	7.47	30.36
PK	4.8729G	53.34	74.00	-20.66	10.20	3	Horizontal	321	1.00	-	43.14	33.75	5.83	29.38
PK	7.3133G	56.84	74.00	-17.16	16.04	3	Horizontal	10	1.00	-	40.80	38.93	7.47	30.36

802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2457MHz_TX

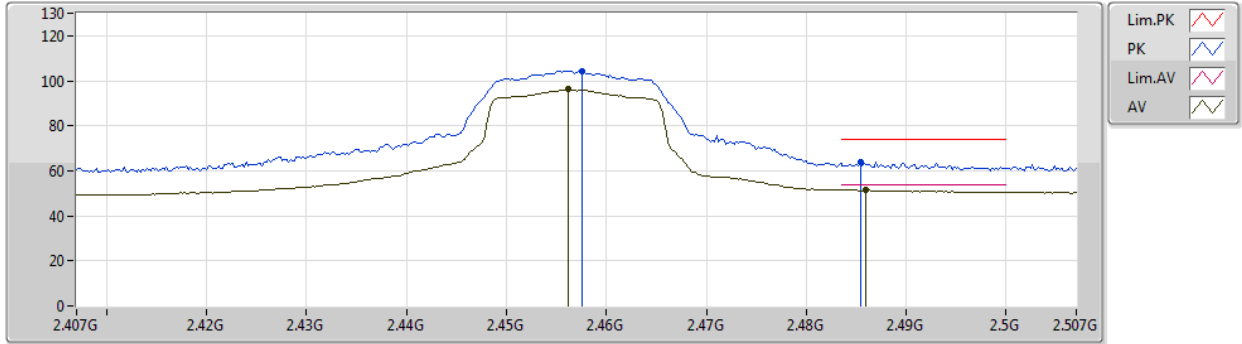


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4562G	101.26	Inf	-Inf	33.91	3	Vertical	360	2.81	-	67.35	29.85	4.06	-
AV	2.4836G	53.72	54.00	-0.28	34.15	3	Vertical	360	2.81	-	19.57	30.07	4.08	-
PK	2.4552G	109.41	Inf	-Inf	33.90	3	Vertical	360	2.81	-	75.51	29.84	4.06	-
PK	2.4835G	66.30	74.00	-7.70	34.15	3	Vertical	360	2.81	-	32.15	30.07	4.08	-

802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2457MHz_TX

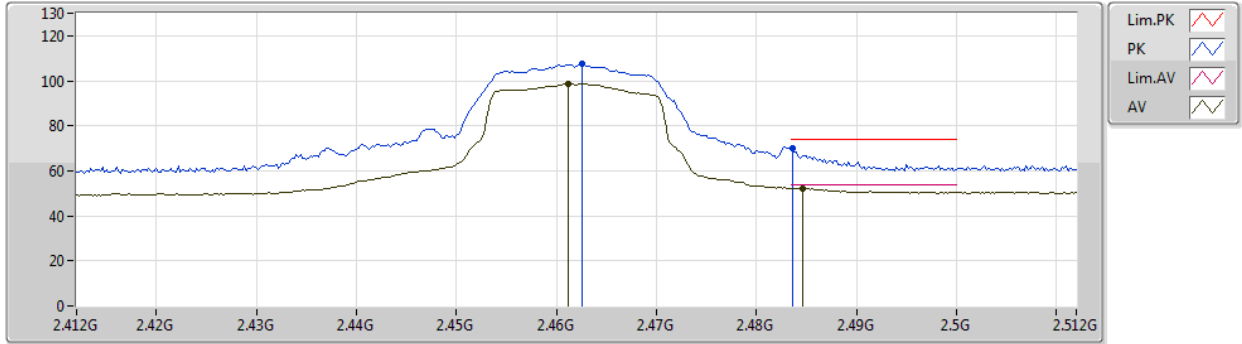


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4562G	96.24	Inf	-Inf	33.91	3	Horizontal	311	1.37	-	62.33	29.85	4.06	-
AV	2.486G	51.43	54.00	-2.57	34.18	3	Horizontal	311	1.37	-	17.25	30.09	4.09	-
PK	2.4576G	104.43	Inf	-Inf	33.92	3	Horizontal	311	1.37	-	70.51	29.86	4.06	-
PK	2.4854G	64.01	74.00	-9.99	34.17	3	Horizontal	311	1.37	-	29.84	30.08	4.09	-

802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2462MHz_TX

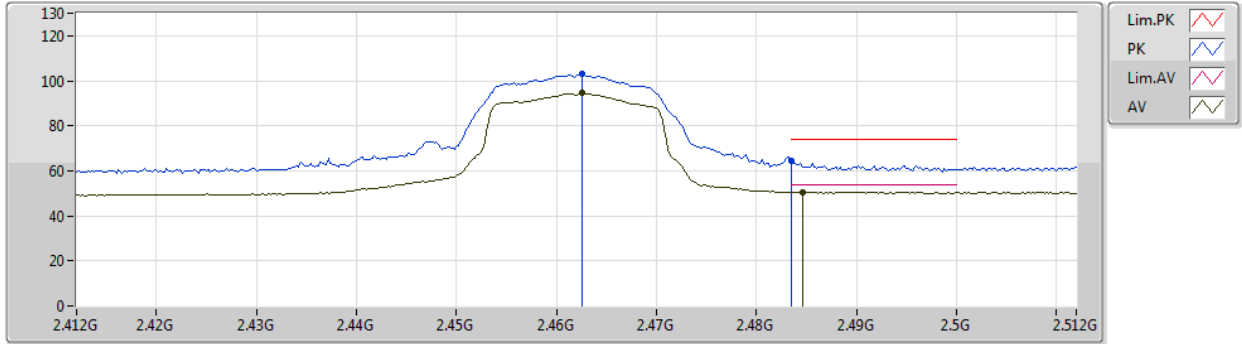


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4612G	98.89	Inf	-Inf	33.95	3	Vertical	360	2.80	-	64.94	29.89	4.06	-
AV	2.4846G	52.12	54.00	-1.88	34.17	3	Vertical	360	2.80	-	17.95	30.08	4.09	-
PK	2.4626G	107.41	Inf	-Inf	33.96	3	Vertical	360	2.80	-	73.45	29.90	4.06	-
PK	2.4836G	69.78	74.00	-4.22	34.15	3	Vertical	360	2.80	-	35.63	30.07	4.08	-

802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2462MHz_TX



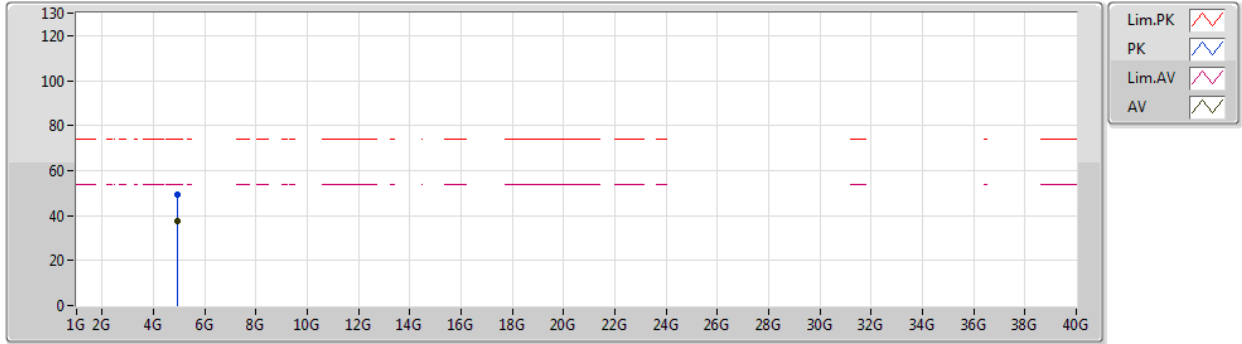
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4626G	94.45	Inf	-Inf	33.96	3	Horizontal	312	1.40	-	60.49	29.90	4.06	-
AV	2.4846G	50.67	54.00	-3.33	34.17	3	Horizontal	312	1.40	-	16.50	30.08	4.09	-
PK	2.4626G	103.08	Inf	-Inf	33.96	3	Horizontal	312	1.40	-	69.12	29.90	4.06	-
PK	2.4835G	64.53	74.00	-9.47	34.15	3	Horizontal	312	1.40	-	30.38	30.07	4.08	-



802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2462MHz_TX



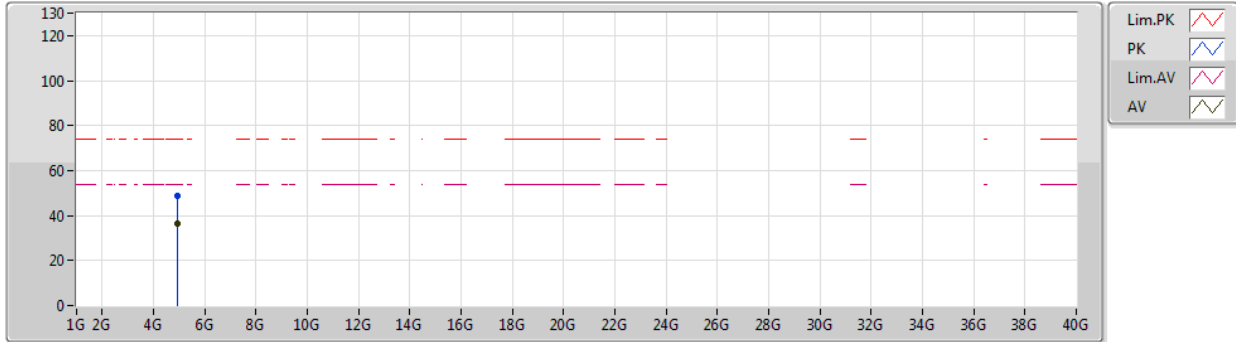
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AV	4.92578G	37.55	54.00	-16.45	10.37	3	Vertical	297	1.32	-	27.18	33.85	5.87	29.35
PK	4.92318G	49.52	74.00	-24.48	10.35	3	Vertical	297	1.32	-	39.17	33.85	5.86	29.36



802.11g_Nss1,(6Mbps)_1TX

22/03/2020

2462MHz_TX

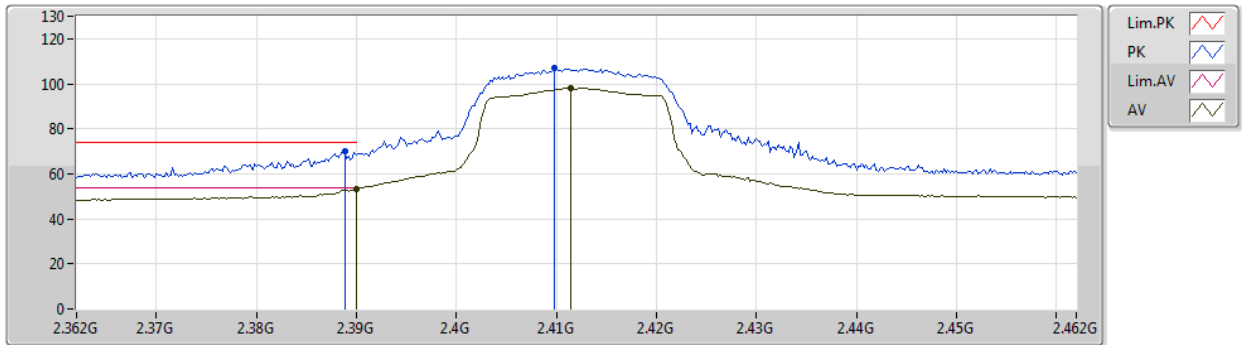


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92662G	36.43	54.00	-17.57	10.37	3	Horizontal	138	2.06	-	26.06	33.85	5.87	29.35
PK	4.92672G	48.60	74.00	-25.40	10.37	3	Horizontal	138	2.06	-	38.23	33.85	5.87	29.35

802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2412MHz_TX

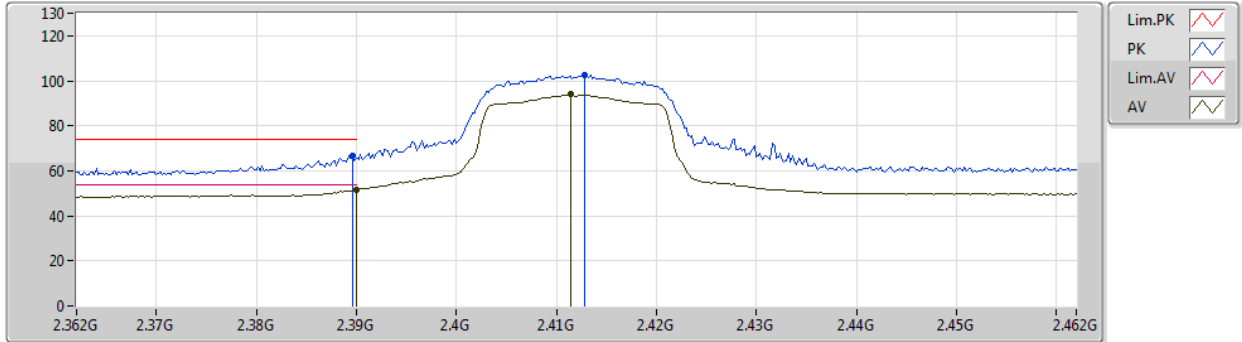


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.20	54.00	-0.80	33.60	3	Vertical	0	2.84	-	19.60	29.60	4.00	-
AV	2.4114G	98.25	Inf	-Inf	33.74	3	Vertical	0	2.84	-	64.51	29.72	4.02	-
PK	2.3888G	70.32	74.00	-3.68	33.59	3	Vertical	0	2.84	-	36.73	29.59	4.00	-
PK	2.4098G	106.89	Inf	-Inf	33.74	3	Vertical	0	2.84	-	73.15	29.72	4.02	-

802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2412MHz_TX



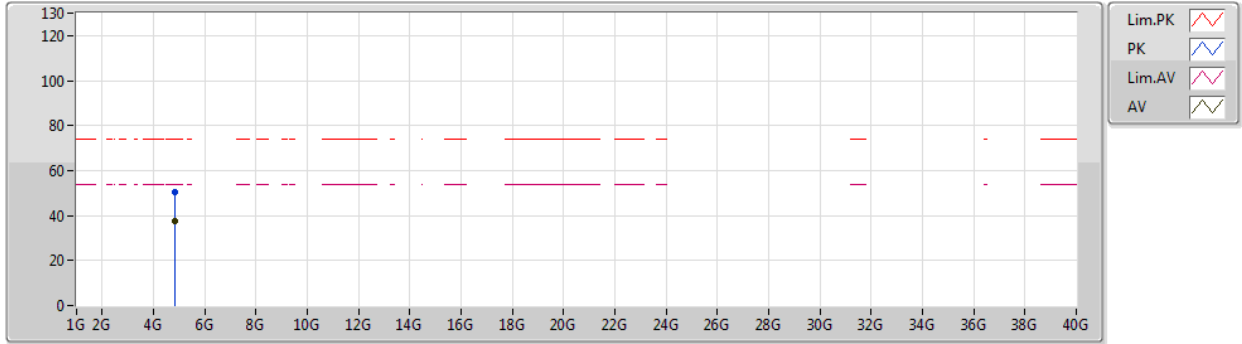
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.51	54.00	-2.49	33.60	3	Horizontal	314	1.50	-	17.91	29.60	4.00	-
AV	2.4114G	93.94	Inf	-Inf	33.74	3	Horizontal	314	1.50	-	60.20	29.72	4.02	-
PK	2.3896G	66.71	74.00	-7.29	33.60	3	Horizontal	314	1.50	-	33.11	29.60	4.00	-
PK	2.4128G	102.65	Inf	-Inf	33.75	3	Horizontal	314	1.50	-	68.90	29.73	4.02	-



802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2412MHz_TX



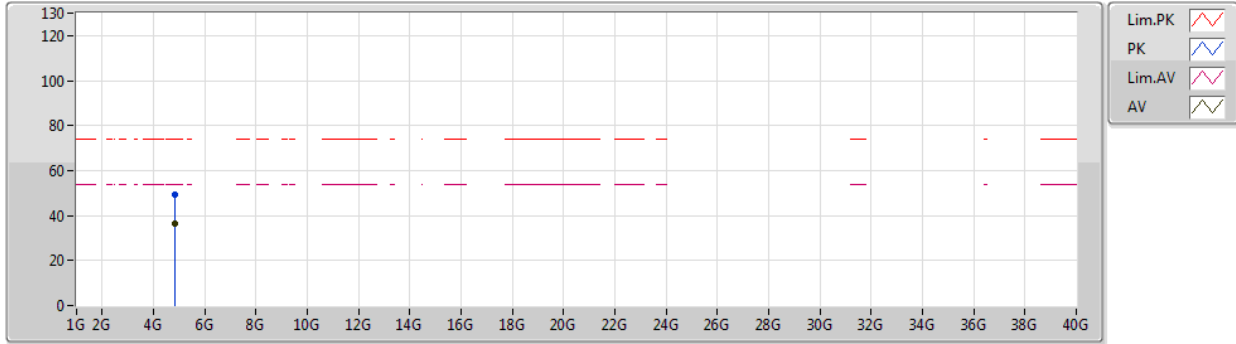
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AV	4.8236G	37.64	54.00	-16.36	10.04	3	Vertical	360	2.35	-	27.60	33.65	5.79	29.40
PK	4.8206G	50.19	74.00	-23.81	10.03	3	Vertical	360	2.35	-	40.16	33.64	5.79	29.40



802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2412MHz_TX

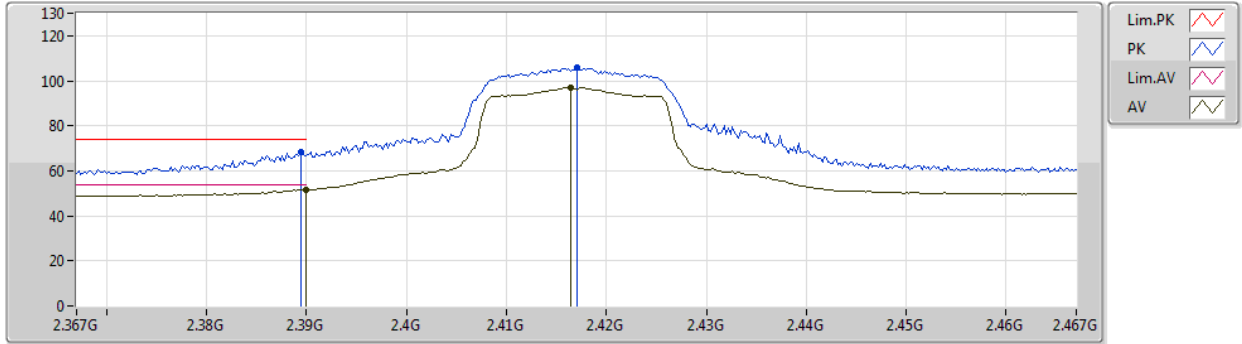


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8248G	36.53	54.00	-17.47	10.04	3	Horizontal	133	1.02	-	26.49	33.65	5.79	29.40
PK	4.82268G	49.55	74.00	-24.45	10.04	3	Horizontal	133	1.02	-	39.51	33.65	5.79	29.40

802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2417MHz_TX

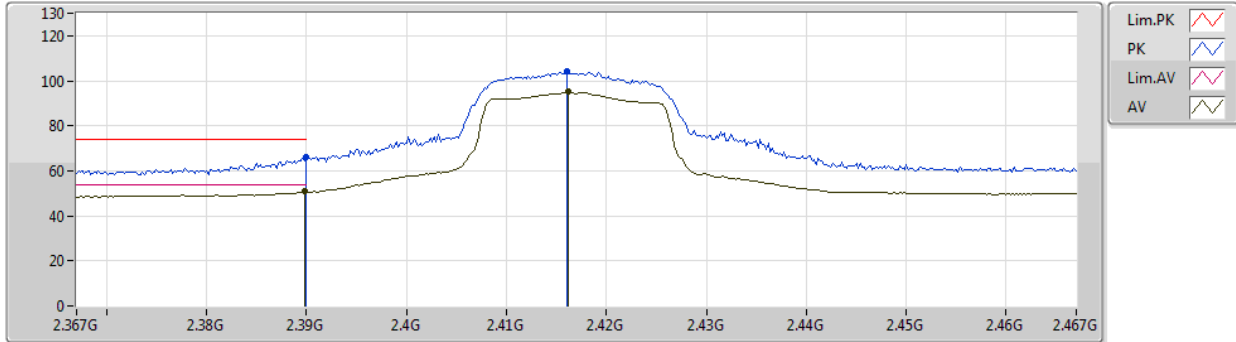


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.51	54.00	-2.49	33.60	3	Vertical	247	1.02	-	17.91	29.60	4.00	-
AV	2.4164G	97.03	Inf	-Inf	33.75	3	Vertical	247	1.02	-	63.28	29.73	4.02	-
PK	2.3894G	68.09	74.00	-5.91	33.59	3	Vertical	247	1.02	-	34.50	29.59	4.00	-
PK	2.417G	105.71	Inf	-Inf	33.75	3	Vertical	247	1.02	-	71.96	29.73	4.02	-

802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2417MHz_TX

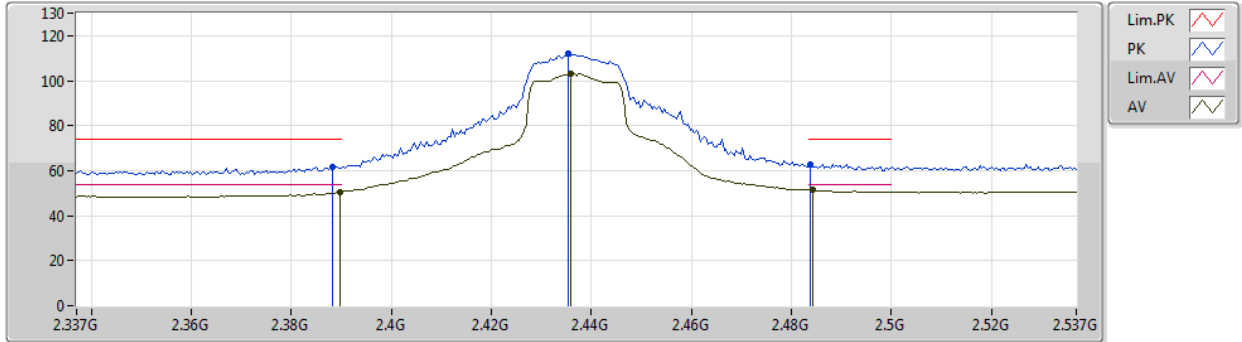


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	50.86	54.00	-3.14	33.60	3	Horizontal	313	1.50	-	17.26	29.60	4.00	-
AV	2.4162G	95.15	Inf	-Inf	33.75	3	Horizontal	313	1.50	-	61.40	29.73	4.02	-
PK	2.39G	65.93	74.00	-8.07	33.60	3	Horizontal	313	1.50	-	32.33	29.60	4.00	-
PK	2.416G	104.39	Inf	-Inf	33.75	3	Horizontal	313	1.50	-	70.64	29.73	4.02	-

802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2437MHz_TX

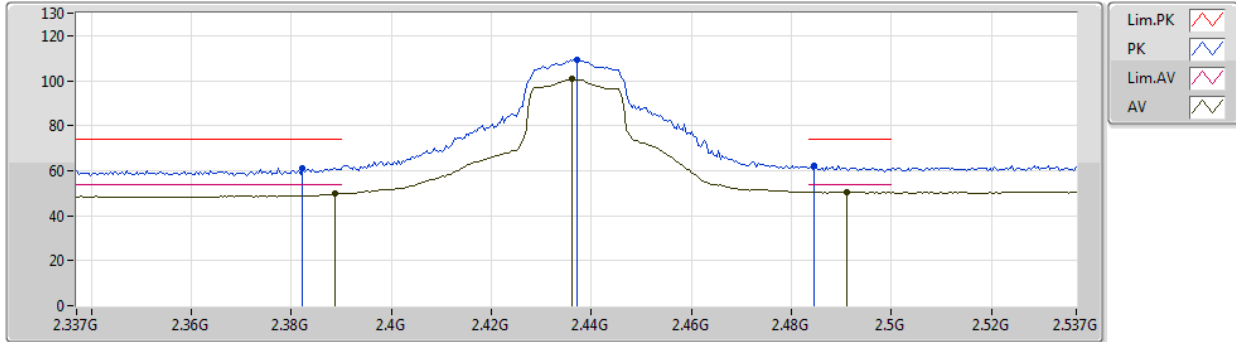


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	50.64	54.00	-3.36	33.60	3	Vertical	10	2.78	-	17.04	29.60	4.00	-
AV	2.4358G	103.25	Inf	-Inf	33.81	3	Vertical	10	2.78	-	69.44	29.77	4.04	-
AV	2.4842G	51.41	54.00	-2.59	34.16	3	Vertical	10	2.78	-	17.25	30.07	4.09	-
PK	2.3882G	61.69	74.00	-12.31	33.57	3	Vertical	10	2.78	-	28.12	29.58	3.99	-
PK	2.4354G	112.14	Inf	-Inf	33.81	3	Vertical	10	2.78	-	78.33	29.77	4.04	-
PK	2.4838G	62.85	74.00	-11.15	34.15	3	Vertical	10	2.78	-	28.70	30.07	4.08	-

802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2437MHz_TX

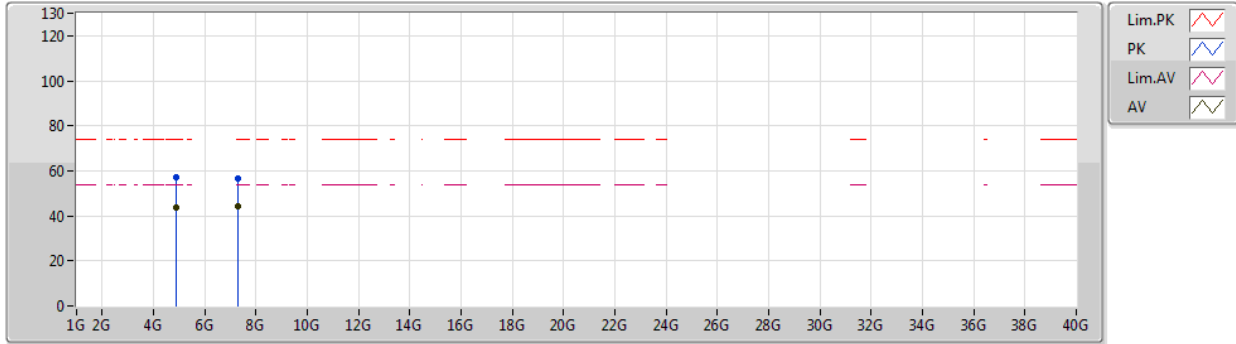


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3886G	49.90	54.00	-4.10	33.59	3	Horizontal	40	2.72	-	16.31	29.59	4.00	-
AV	2.4362G	100.76	Inf	-Inf	33.81	3	Horizontal	40	2.72	-	66.95	29.77	4.04	-
AV	2.491G	50.46	54.00	-3.54	34.22	3	Horizontal	40	2.72	-	16.24	30.13	4.09	-
PK	2.3822G	61.12	74.00	-12.88	33.51	3	Horizontal	40	2.72	-	27.61	29.52	3.99	-
PK	2.437G	109.43	Inf	-Inf	33.81	3	Horizontal	40	2.72	-	75.62	29.77	4.04	-
PK	2.4846G	62.34	74.00	-11.66	34.17	3	Horizontal	40	2.72	-	28.17	30.08	4.09	-

802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2437MHz_TX

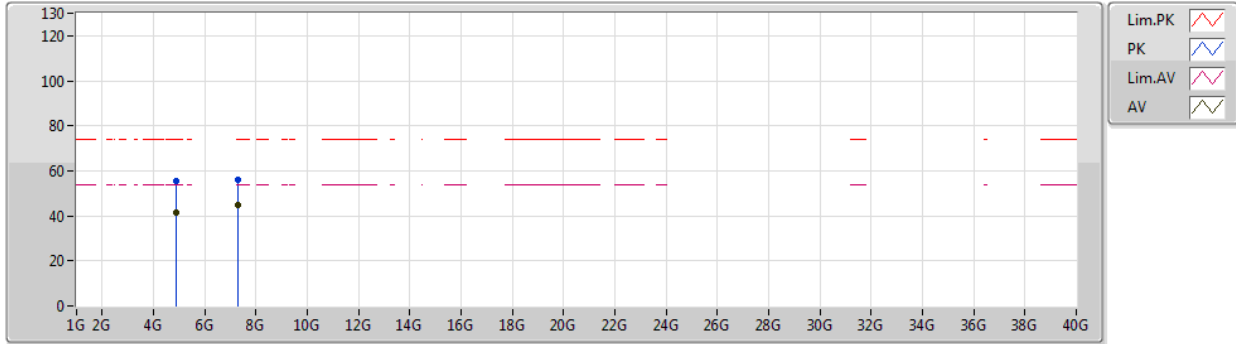


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8713G	43.83	54.00	-10.17	10.19	3	Vertical	360	2.18	-	33.64	33.74	5.83	29.38
AV	7.3091G	44.40	54.00	-9.60	16.04	3	Vertical	284	1.09	-	28.36	38.92	7.48	30.36
PK	4.8741G	57.20	74.00	-16.80	10.20	3	Vertical	360	2.18	-	47.00	33.75	5.83	29.38
PK	7.3086G	56.46	74.00	-17.54	16.04	3	Vertical	284	1.09	-	40.42	38.92	7.48	30.36

802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2437MHz_TX

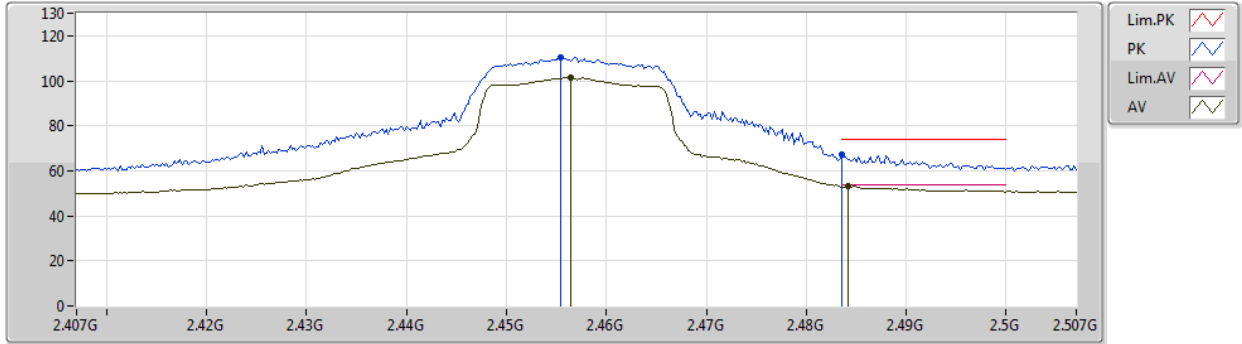


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87372G	41.62	54.00	-12.38	10.20	3	Horizontal	57	1.90	-	31.42	33.75	5.83	29.38
AV	7.31128G	44.93	54.00	-9.07	16.04	3	Horizontal	232	1.48	-	28.89	38.92	7.48	30.36
PK	4.8716G	55.21	74.00	-18.79	10.19	3	Horizontal	57	1.90	-	45.02	33.74	5.83	29.38
PK	7.30682G	56.09	74.00	-17.91	16.05	3	Horizontal	232	1.48	-	40.04	38.91	7.49	30.35

802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2457MHz_TX

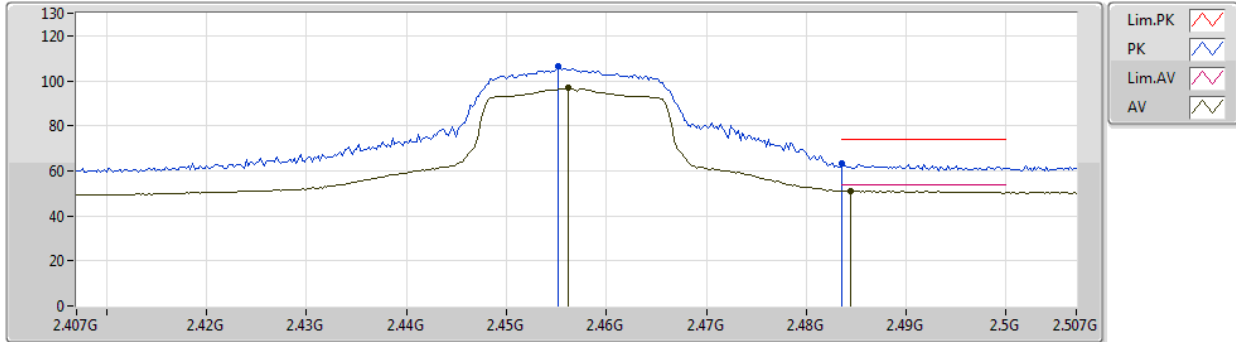


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4564G	101.51	Inf	-Inf	33.91	3	Vertical	0	2.81	-	67.60	29.85	4.06	-
AV	2.4842G	53.16	54.00	-0.84	34.16	3	Vertical	0	2.81	-	19.00	30.07	4.09	-
PK	2.4554G	110.29	Inf	-Inf	33.90	3	Vertical	0	2.81	-	76.39	29.84	4.06	-
PK	2.4836G	67.51	74.00	-6.49	34.15	3	Vertical	0	2.81	-	33.36	30.07	4.08	-

802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2457MHz_TX

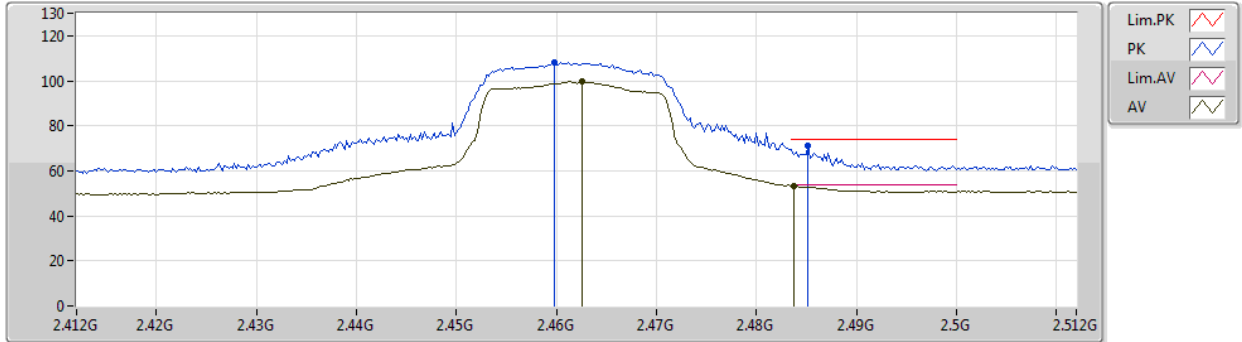


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4562G	96.69	Inf	-Inf	33.91	3	Horizontal	311	1.53	-	62.78	29.85	4.06	-
AV	2.4844G	51.18	54.00	-2.82	34.17	3	Horizontal	311	1.53	-	17.01	30.08	4.09	-
PK	2.4552G	106.66	Inf	-Inf	33.90	3	Horizontal	311	1.53	-	72.76	29.84	4.06	-
PK	2.4836G	63.22	74.00	-10.78	34.15	3	Horizontal	311	1.53	-	29.07	30.07	4.08	-

802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2462MHz_TX

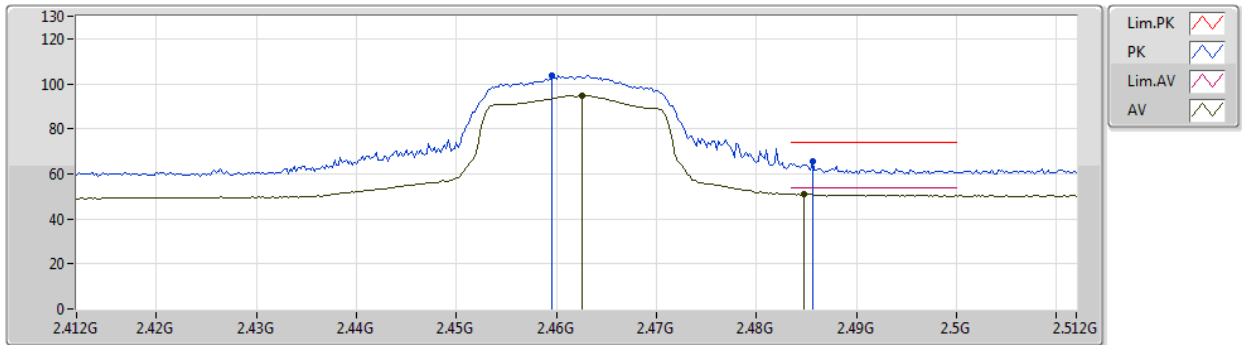


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4626G	99.68	Inf	-Inf	33.96	3	Vertical	360	2.80	-	65.72	29.90	4.06	-
AV	2.4838G	53.15	54.00	-0.85	34.15	3	Vertical	360	2.80	-	19.00	30.07	4.08	-
PK	2.4598G	107.97	Inf	-Inf	33.94	3	Vertical	360	2.80	-	74.03	29.88	4.06	-
PK	2.4852G	71.39	74.00	-2.61	34.17	3	Vertical	360	2.80	-	37.22	30.08	4.09	-

802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2462MHz_TX



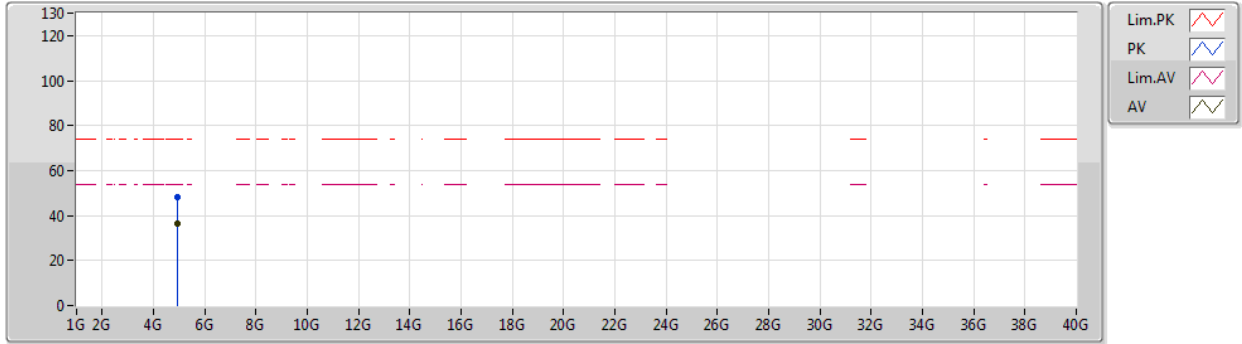
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AV	2.4626G	94.96	Inf	-Inf	33.96	3	Horizontal	311	1.39	-	61.00	29.90	4.06	-
AV	2.4848G	50.93	54.00	-3.07	34.17	3	Horizontal	311	1.39	-	16.76	30.08	4.09	-
PK	2.4596G	103.86	Inf	-Inf	33.94	3	Horizontal	311	1.39	-	69.92	29.88	4.06	-
PK	2.4856G	65.51	74.00	-8.49	34.17	3	Horizontal	311	1.39	-	31.34	30.08	4.09	-



802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2462MHz_TX



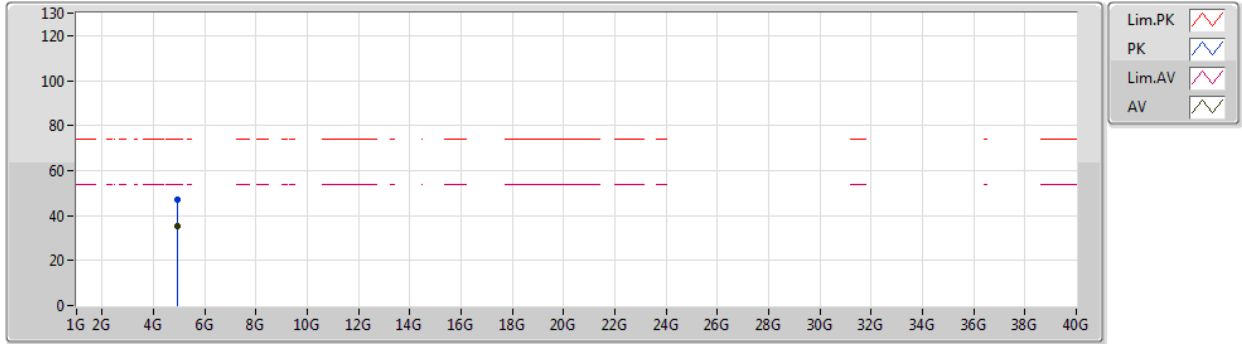
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AV	4.92622G	36.29	54.00	-17.71	10.37	3	Vertical	80	2.15	-	25.92	33.85	5.87	29.35
PK	4.9227G	48.19	74.00	-25.81	10.35	3	Vertical	80	2.15	-	37.84	33.85	5.86	29.36



802.11n HT20_Nss1,(MCS0)_1TX

22/03/2020

2462MHz_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	4.92436G	35.26	54.00	-18.74	10.37	3	Horizontal	223	2.39	-	24.89	33.85	5.87	29.35
PK	4.92858G	47.20	74.00	-26.80	10.38	3	Horizontal	223	2.39	-	36.82	33.86	5.87	29.35