



FCC Test Report

FCC ID : U4G-Q10W
Equipment : PDA
Brand Name : DATALOGIC
Model Name : MEMOR 20
Applicant : Datalogic S.r.l.
Via S. Vitalino, 13 40012, Lippo di
Calderara di Reno (BO) ITALY
Manufacturer : Datalogic S.r.l.
Via S. Vitalino, 13 40012, Lippo di
Calderara di Reno (BO) ITALY
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 17, 2018, and testing was started from Dec. 25, 2018 and completed on May 14, 2019. 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



History of this test report



Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Jackson Tsai

Report Producer: Ann Hou



1 General Description

1.1 Information

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/2TX
2.4-2.4835GHz	802.11g	20	1TX/2TX
2.4-2.4835GHz	802.11n HT20	20	2TX

Note:

- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 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	-	-	PIFA	N/A
2	-	-	Monopole with couple	I-PEX

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	1	2.93	4.16	2.93
2	2	2.93	4.16	-

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

Support diversity function and pre-tested on each single chain, the worst case was Ant. 1(port 1) and it was record in this test report.

For IEEE 802.11 b/g/n mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/HT20(Band1) mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was Ant. 1(port 1) and it was record in this test report.

For IEEE 802.11 a/n/ac mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

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

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



1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter			
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	0.992	0.035	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.954	0.205	2.03m	1k
802.11n HT20	0.952	0.214	1.89m	1k

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

1.1.5 Table for Multiple Listing

The brand/model names in the following table are all refer to the identical product.

Brand Name	Model Name	Cover	Description
DATALOGIC	MEMOR 20	White	There are two enclosures for EUT. All samples are identical, only the color is different.
		Black	



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
- ◆ KDB 558074 D01 v05r02
- ◆ KDB 662911 D01 v02r01
- ◆ 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.				

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO01-HY	Jeff	23.2~25.8°C / 51.2~56.1%	14/May/2019
RF Conducted	TH01-HY	Barry	23.1~24.1°C / 61~69%	29/Dec/2018~22/Apr/2019
Radiated (Below 1G)	03CH09-HY	Daniel	21.5~24.3°C / 52.5~55.9%	28/Dec/2018
Radiated (Above 1G)	03CH09-HY	Daniel	21.6~23.2°C / 52.7~54.8%	25/Dec/2018~24/Apr/2019

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)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
T _{nom} V _{nom}	T _{nom}	20°C
-	V _{nom}	120V

2.2 Test Channel Mode

Test Software Version	QDART_WIN_4_8	

Mode	Power Setting	
	Radiated Setting	Conducted Setting
802.11b_Nss1,(1Mbps)_1TX	-	-
2412MHz	22.5	17
2417MHz	23	17
2437MHz	24.5	17
2457MHz	22	17
2462MHz	21	17
802.11b_Nss1,(1Mbps)_2TX	-	-
2412MHz	21.5	18
2417MHz	22	18
2437MHz	23.5	18
2457MHz	21	18
2462MHz	19.5	18
802.11g_Nss1,(6Mbps)_1TX	-	-
2412MHz	18	14
2417MHz	21	14
2437MHz	23.5	14
2457MHz	20	14
2462MHz	17	14
802.11g_Nss1,(6Mbps)_2TX	-	-
2412MHz	17.5	15
2417MHz	19	15
2437MHz	22	15.5
2457MHz	17	15
2462MHz	17	18.5



Mode	Power Setting	
	Radiated Setting	Conducted Setting
802.11n HT20_Nss1,(MCS0)_2TX	-	-
2412MHz	17.5	14.5
2417MHz	19.5	14.5
2437MHz	22.5	14.5
2457MHz	19	14.5
2462MHz	15.5	14.5

Note: The Radiated setting and Conducted setting mentioned above is the worst configuration for each other, and the worst configuration and result of that was recorded as the final power setting parameter.

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

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



2.4 Accessories and Support Equipment

Accessories				
Battery	Brand Name	DATALOGIC	Model Name	Memor 20
	Power Rating	3.85Vdc, 4100mAh	Type	Li-ion
USB Cable	Power Cord	1.2 meter, shielded cable, w/o ferrite core		

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

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	AC adapter	Channel Well	2ACP0183	N/A

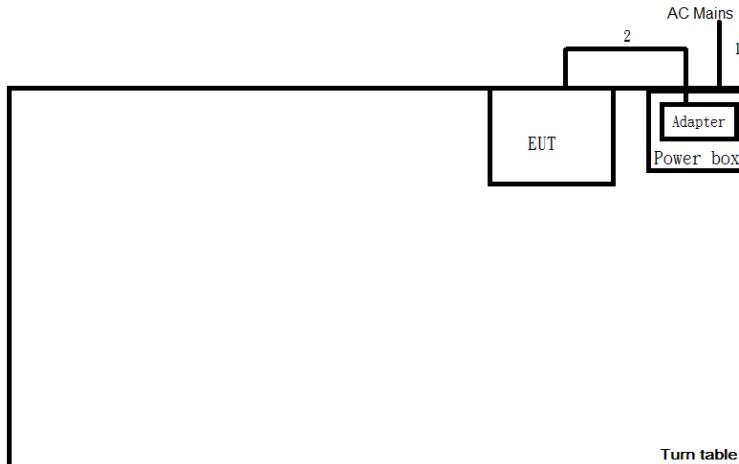
Note: Support equipment No.1 was provided by customer.

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

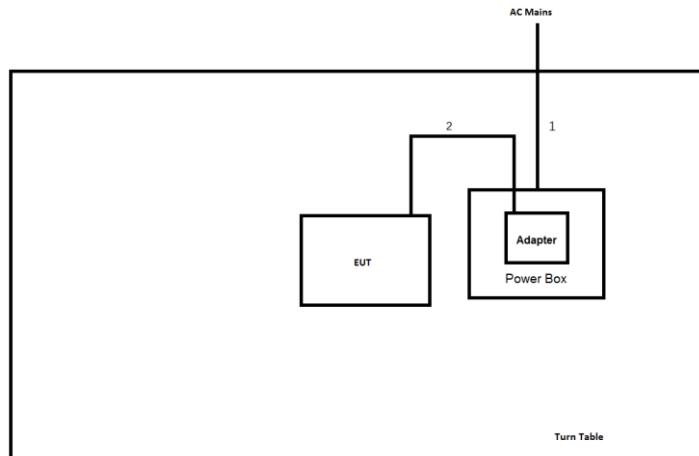
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	AC adapter	Channel Well	2ACP0183	N/A

Note: Support equipment No.1 was provided by customer.

2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test

Item	Connection	Shielded	Length
1	AC Power line	No	1.5m
2	USB Cable	No	1.2m

Test Setup Diagram - Radiated Test

Item	Connection	Shielded	Length
1	AC Power line	No	1.8m
2	USB Cable	No	1.2m

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.

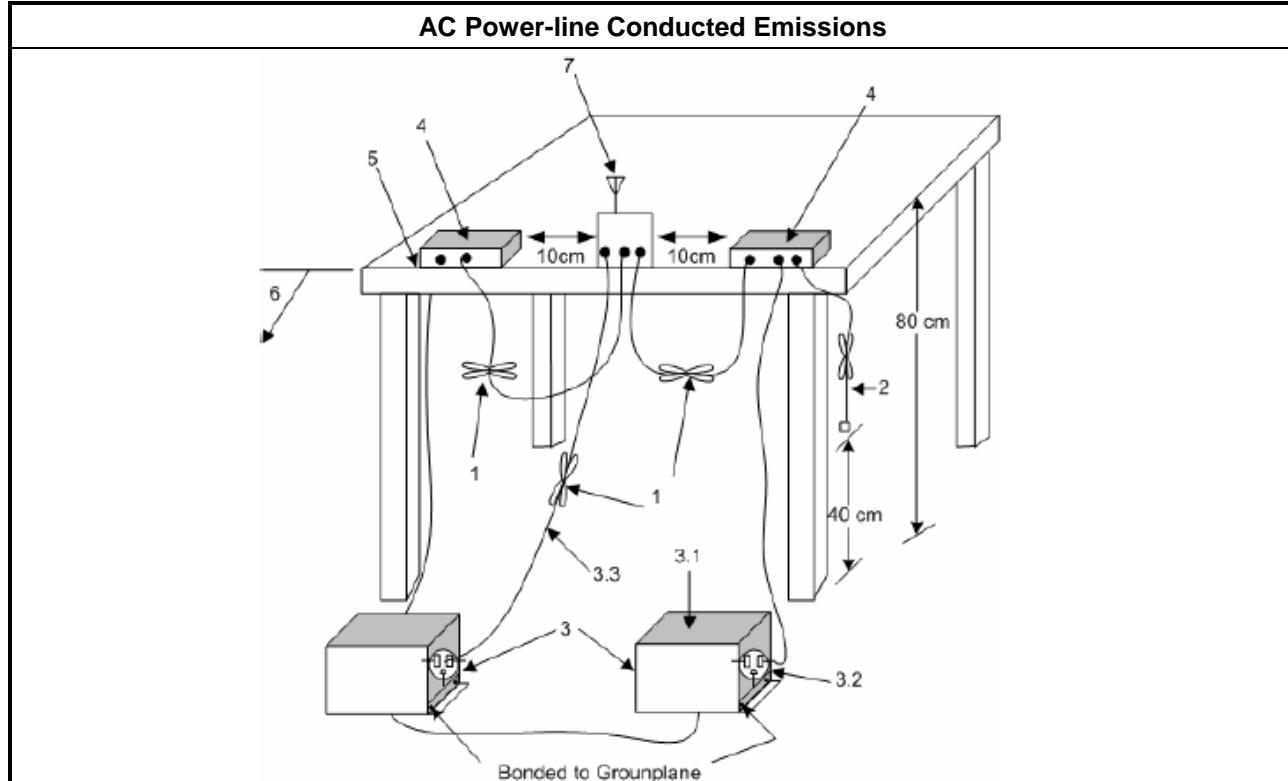
3.1.2 Measuring Instruments

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:
▪ 6 dB bandwidth \geq 500 kHz.

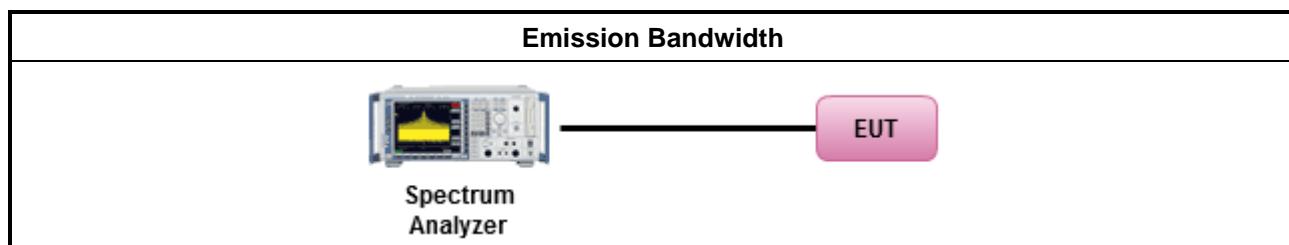
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
▪ 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 $G_{TX} \leq 6 \text{ dBi}$, then $P_{Out} \leq 30 \text{ dBm}$ (1 W)
	<ul style="list-style-type: none">▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 30 - (G_{TX} - 6) \text{ dBm}$
	<ul style="list-style-type: none">▪ Point-to-point systems (P2P): If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 30 - (G_{TX} - 6)/3 \text{ dBm}$
	<ul style="list-style-type: none">▪ Smart antenna system (SAS):<ul style="list-style-type: none">- Single beam: If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 30 - (G_{TX} - 6)/3 \text{ dBm}$- Overlap beam: If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 30 - (G_{TX} - 6)/3 \text{ dBm}$- Aggregate power on all beams: If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8 \text{ dB dBm}$
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): $P_{eirp} \leq 36 \text{ dBm}$ (4 W)
	<ul style="list-style-type: none">▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}]) \text{ dBm}$
	<ul style="list-style-type: none">▪ Smart antenna system (SAS)<ul style="list-style-type: none">- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX}) \text{ dBm}$- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX}) \text{ dBm}$- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8]) \text{ dBm}$

P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm,
 G_{TX} = the maximum transmitting antenna directional gain in dBi.

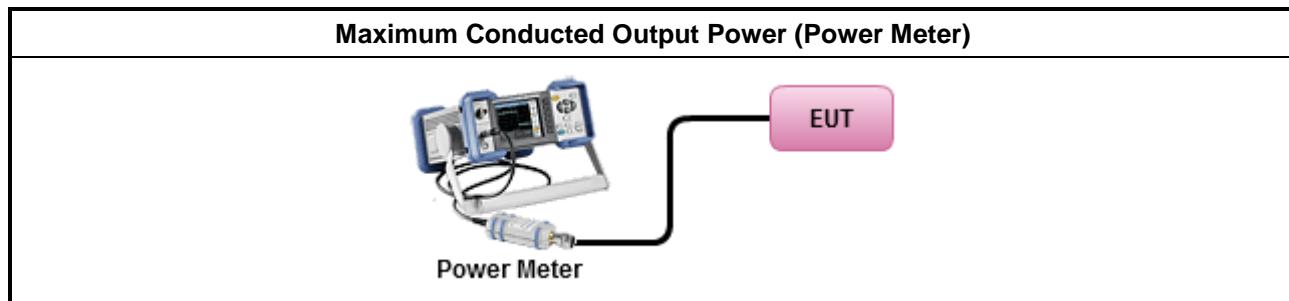
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
▪ Maximum Peak Conducted Output Power
<input type="checkbox"/> Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW \geq 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.
▪ 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.
▪ 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.▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

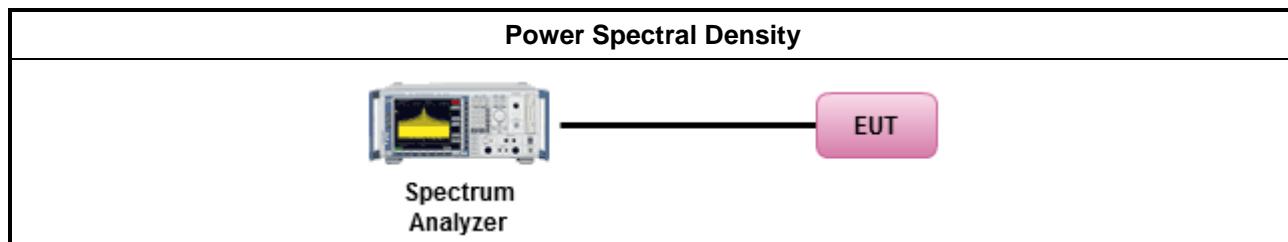
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
▪ 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) Method PKPSD.
▪ For conducted measurement.
▪ If The EUT supports multiple transmit chains using options given below:
▪ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

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

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

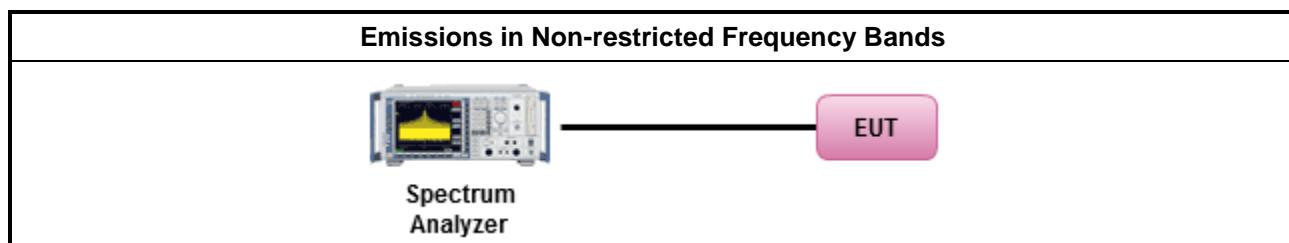
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



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.

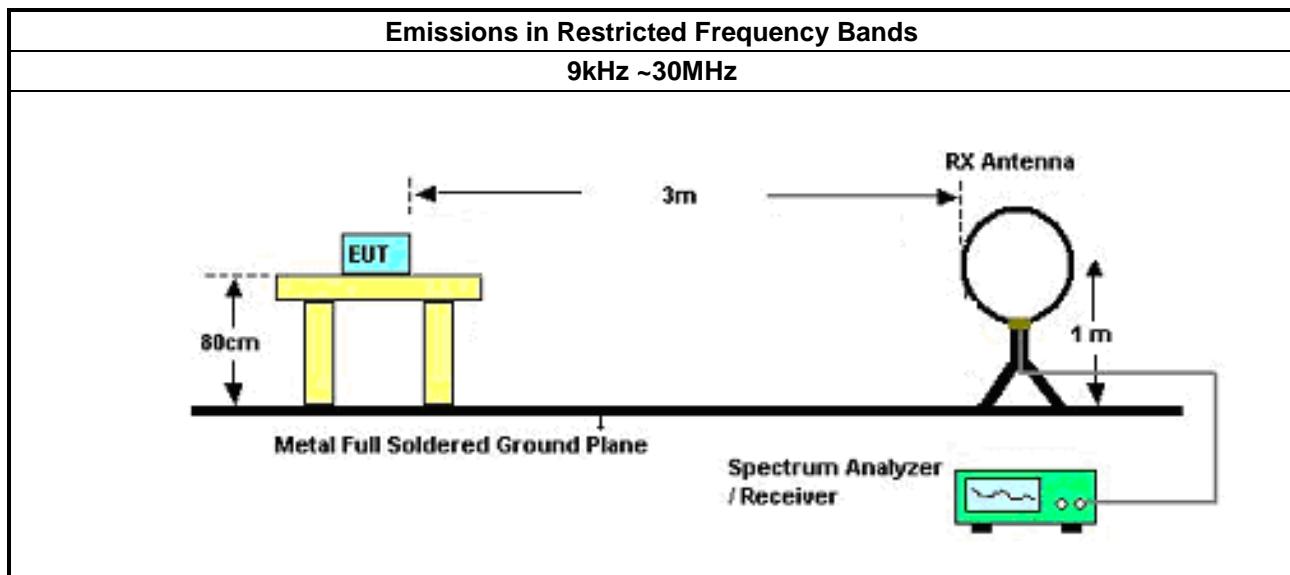
3.6.2 Measuring Instruments

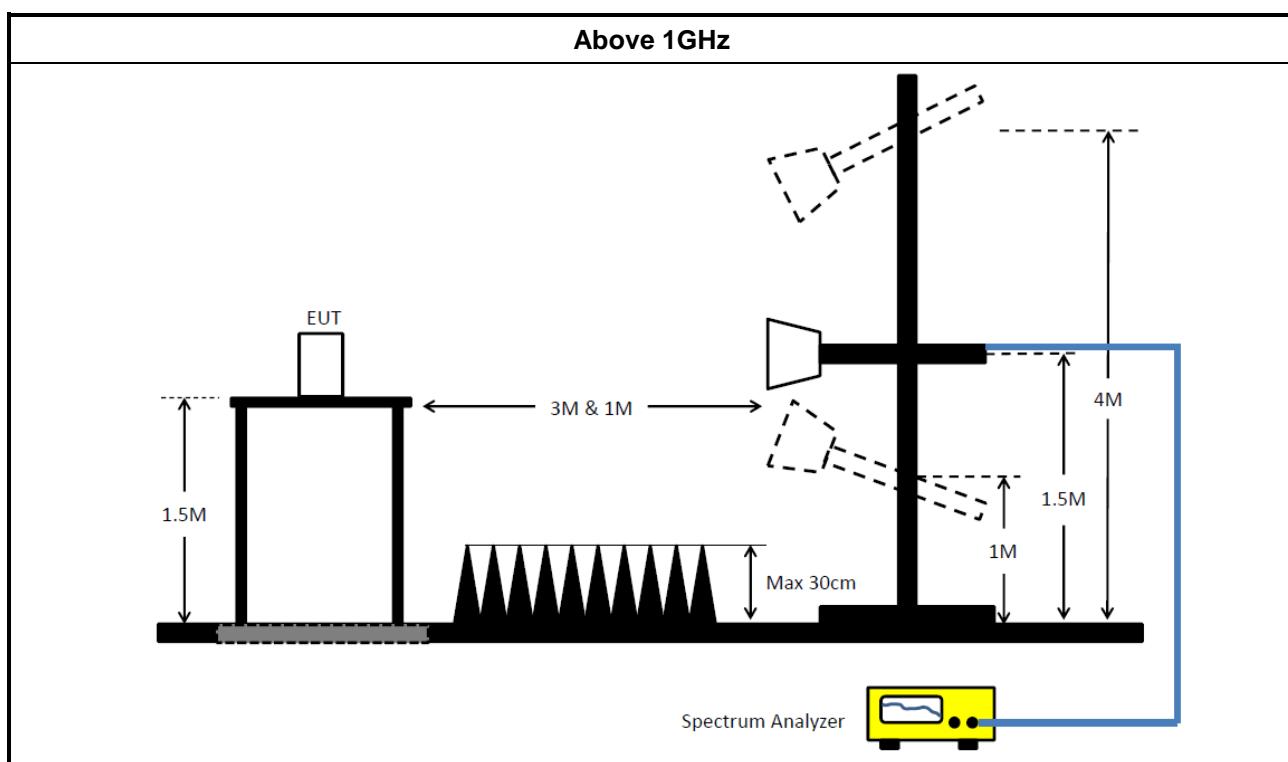
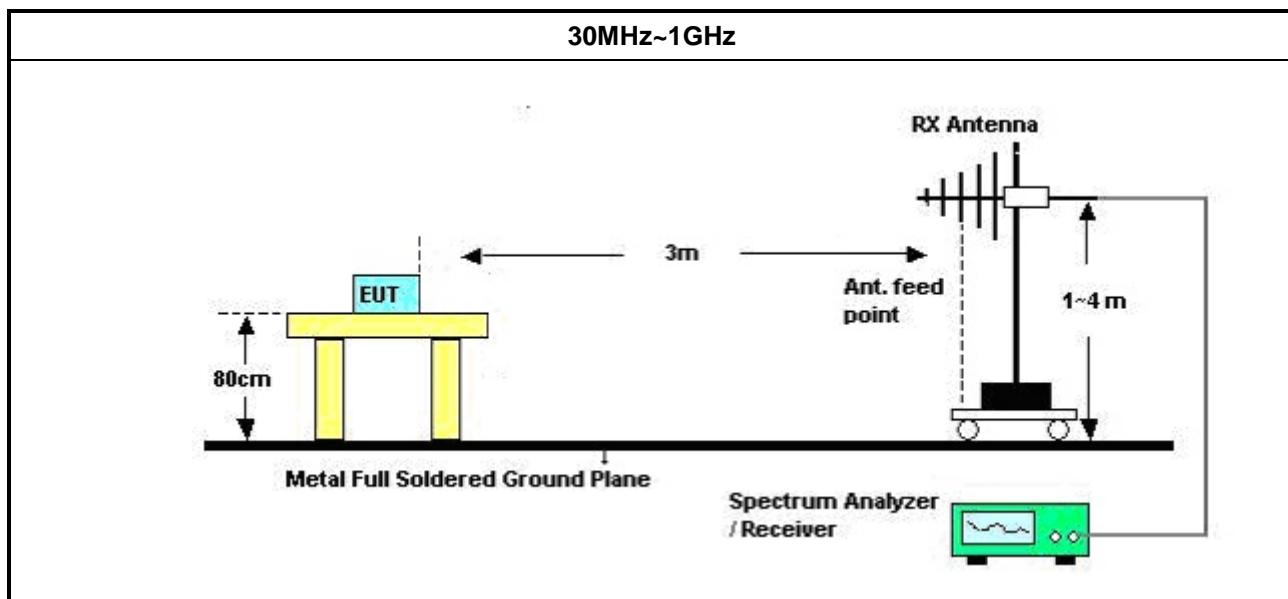
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method
<ul style="list-style-type: none">The average emission levels shall be measured in [duty cycle \geq 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.Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
<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.Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ 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.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	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
LISN	R&S	ENV 216	101274	9kHz ~ 30MHz	12/Jun/2018	11/Jun/2019
RF Cable-CON	MTJ	RG142	CB001-CO	9kHz ~ 30MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11003G	F308010045	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561F	9495	9kHz ~ 30MHz	11/Oct/2018	10/Oct/2019

NCR : Non-Calibration Require

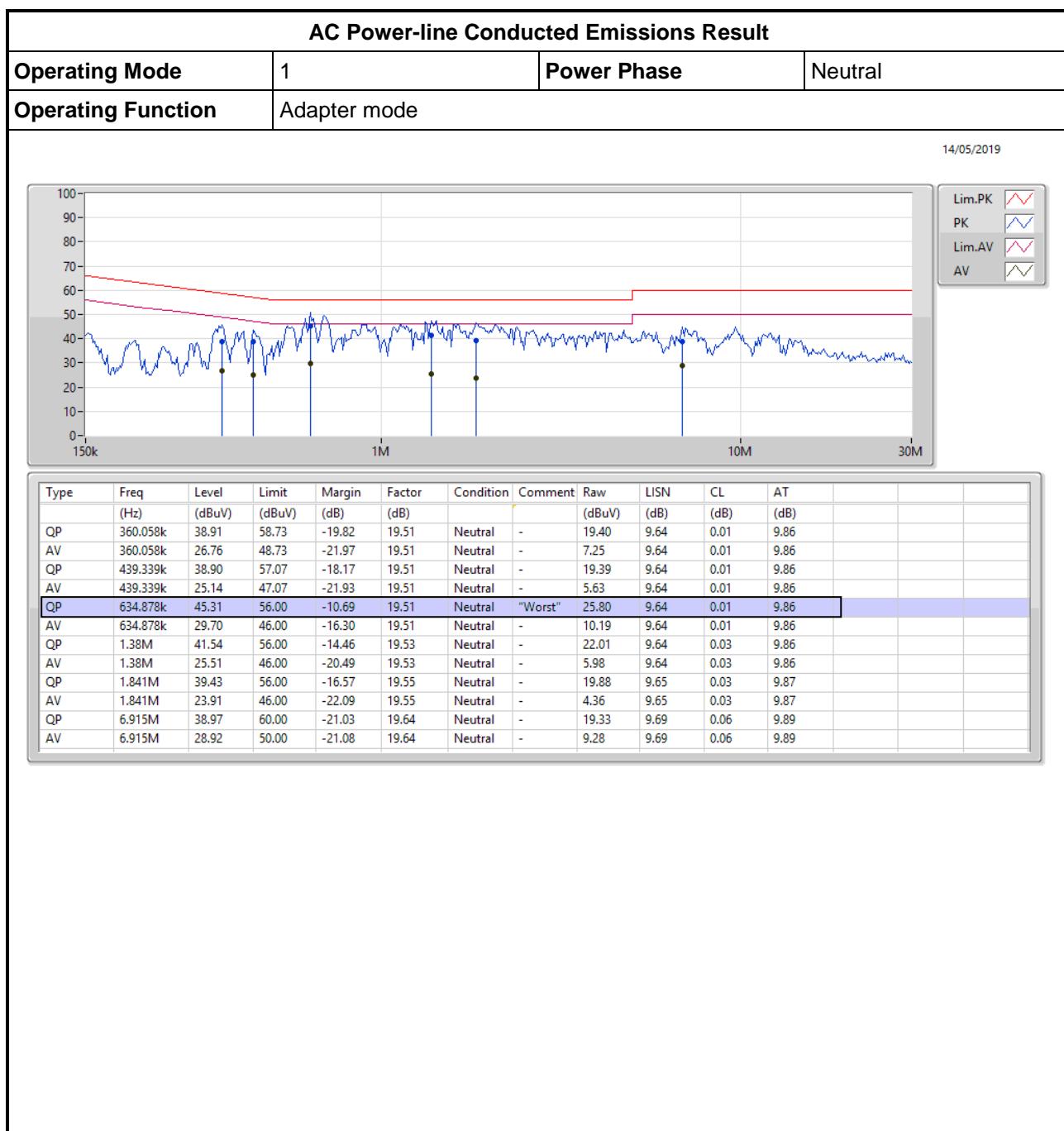
Instrument for Conducted Test

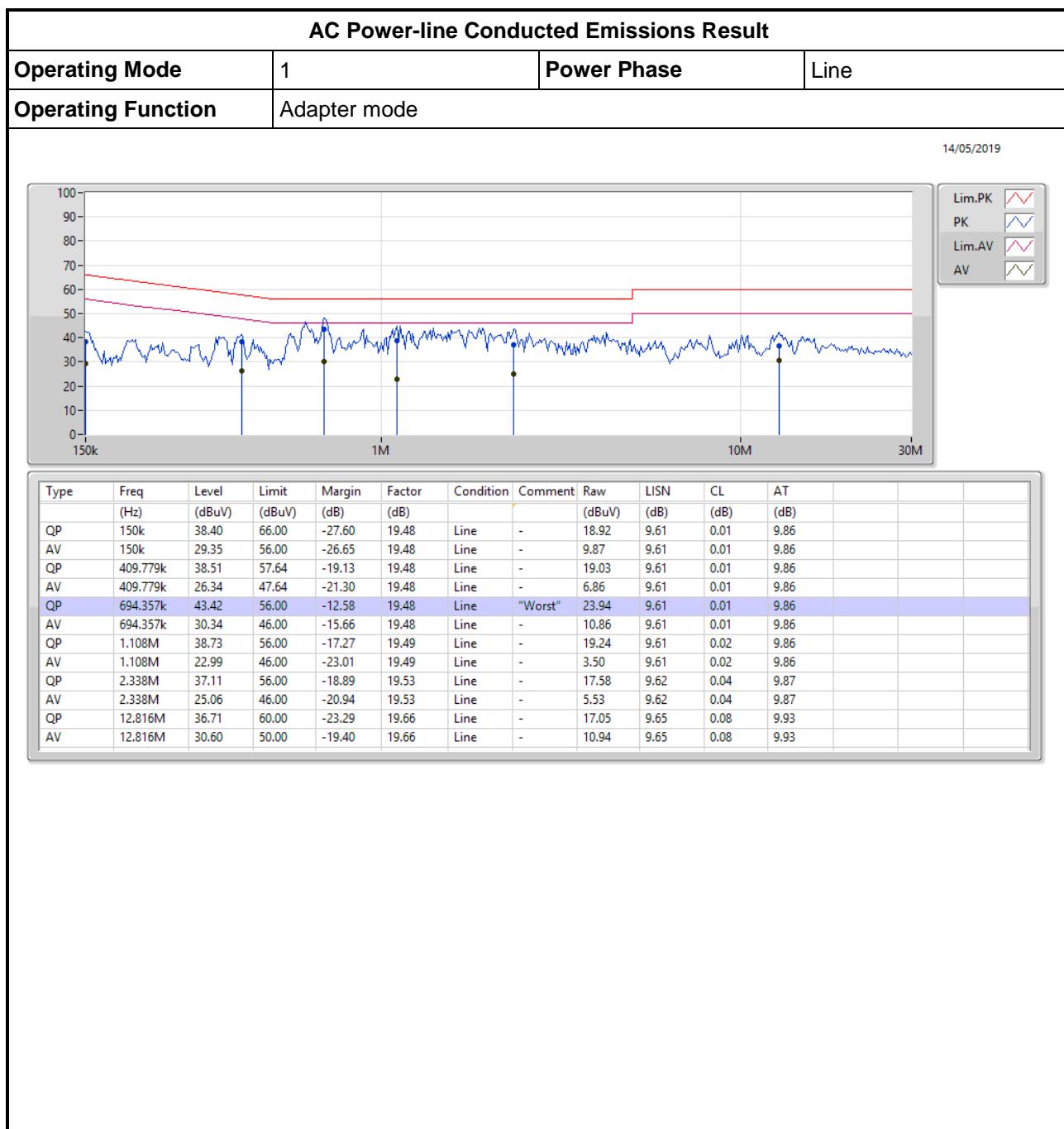
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101029	10Hz~40GHz	11/Sep/2018	10/Sep/2019
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~18G	11/Jan/2018	10/Jan/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	11/Jan/2018	10/Jan/2019
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.5m	HUBER	MY10714/4	RF Cable – 05	1G~18G	11/Jan/2018	10/Jan/2019
Cable 0.5m	HUBER	MY10714/4	RF Cable – 05	1G~18G	10/Jan/2019	09/Jan/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020



Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	23/Apr/2018	22/Apr/2019
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	14/Jun/2018	13/Jun/2019
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	10/May/2018	09/May/2019
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	27/Apr/2018	26/Apr/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	10/Apr/2018	09/Apr/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	31/Jul/2018	30/Jul/2019
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	02/Oct/2018	03/Oct/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	30/Apr/2018	29/Apr/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	22/Mar/2019	21/Mar/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	12/Mar/2018	11/Mar/2019
Preamplifier	MITEQ	TTA1840-35-H G	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020
RF Cable-R03m	Jye Bao	RG142	CB031	9kHz ~ 1GHz	01/Feb/2018	31/Jan/2019
RF Cable-R03m	Jye Bao	RG142	CB031	9kHz ~ 1GHz	18/Feb/2019	17/Jan/2020
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	14/Mar/2018	13/Mar/2019
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	13/Mar/2019	12/Mar/2020





**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	7.525M	12.994M	13M0G1D	7.025M	12.744M
802.11b_Nss1,(1Mbps)_2TX	7.55M	13.343M	13M3G1D	7.05M	12.469M
802.11g_Nss1,(6Mbps)_1TX	15.725M	16.517M	16M5D1D	15.1M	16.442M
802.11g_Nss1,(6Mbps)_2TX	15.725M	16.567M	16M6D1D	15.25M	16.492M
802.11n HT20_Nss1,(MCS0)_2TX	16.9M	17.791M	17M8D1D	15.1M	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;



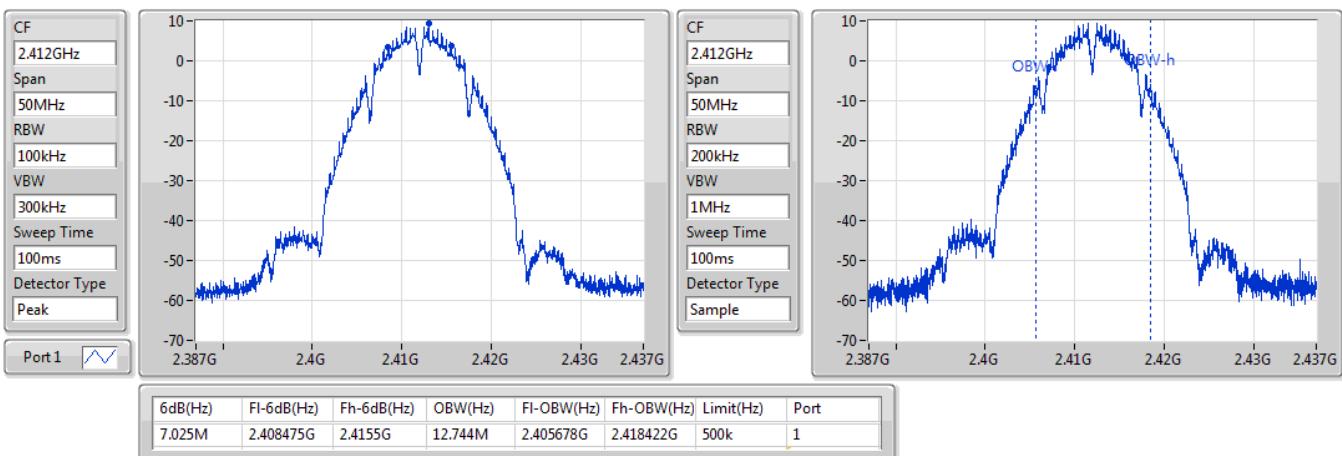
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.025M	12.744M		
2437MHz	Pass	500k	7.05M	12.894M		
2462MHz	Pass	500k	7.525M	12.994M		
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.525M	12.994M	7.5M	12.519M
2437MHz	Pass	500k	7.525M	13.093M	7.05M	12.544M
2462MHz	Pass	500k	7.55M	13.343M	7.05M	12.469M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.1M	16.442M		
2437MHz	Pass	500k	15.625M	16.517M		
2462MHz	Pass	500k	15.725M	16.517M		
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.25M	16.492M	15.725M	16.492M
2437MHz	Pass	500k	15.7M	16.492M	15.3M	16.542M
2462MHz	Pass	500k	15.7M	16.492M	15.725M	16.567M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.1M	17.691M	16.9M	17.691M
2437MHz	Pass	500k	16.025M	17.766M	15.275M	17.766M
2462MHz	Pass	500k	16.525M	17.716M	16.3M	17.791M

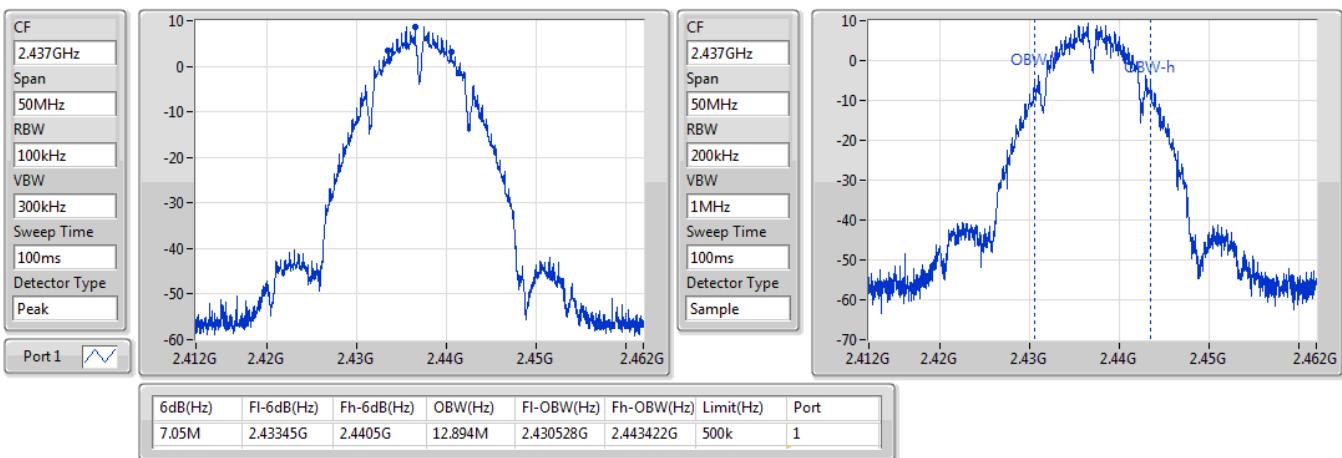
Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

24/01/2019

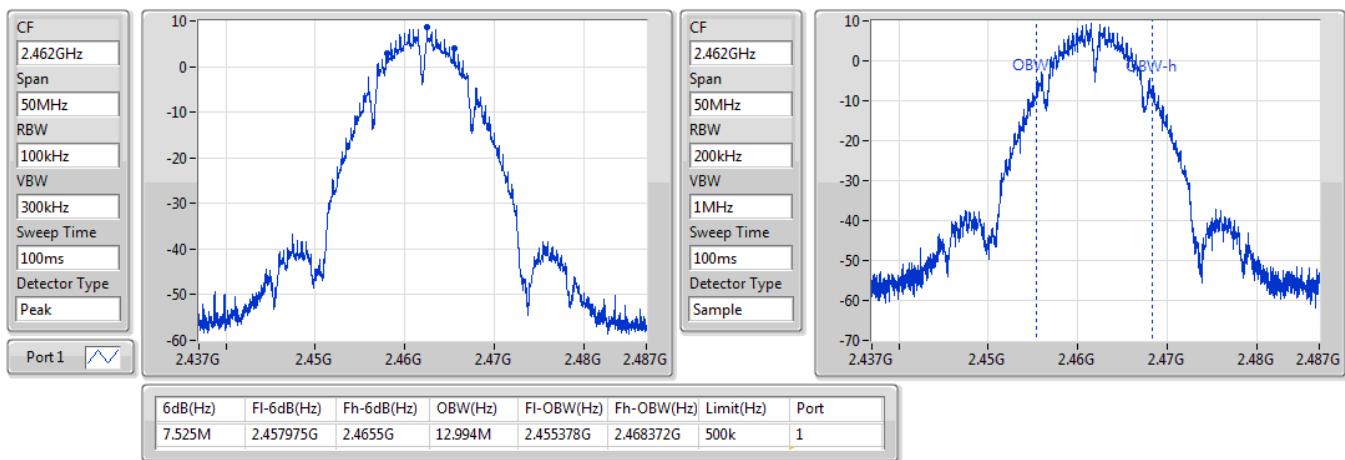

802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

24/01/2019

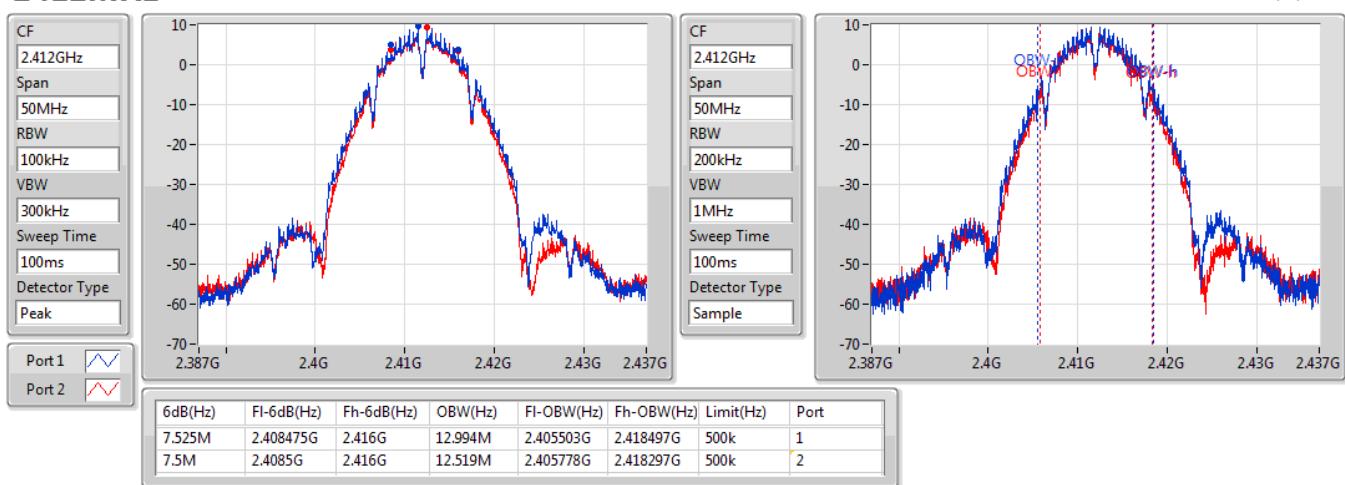


802.11b_Nss1,(1Mbps)_1TX
EBW
2462MHz

24/01/2019


802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

18/04/2019

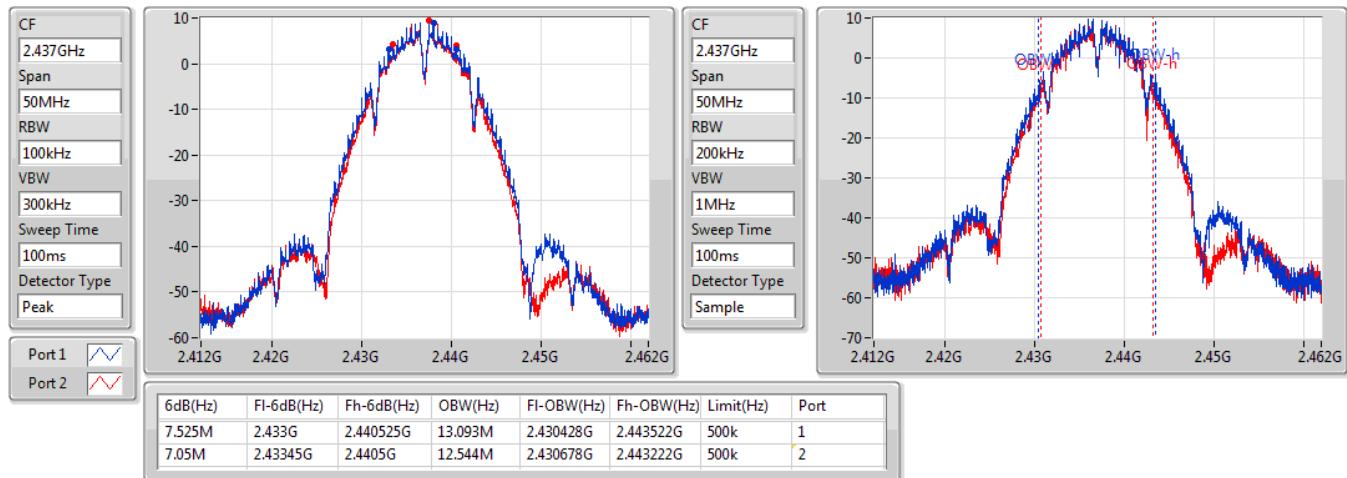


802.11b_Nss1,(1Mbps)_2TX

EBW

2437MHz

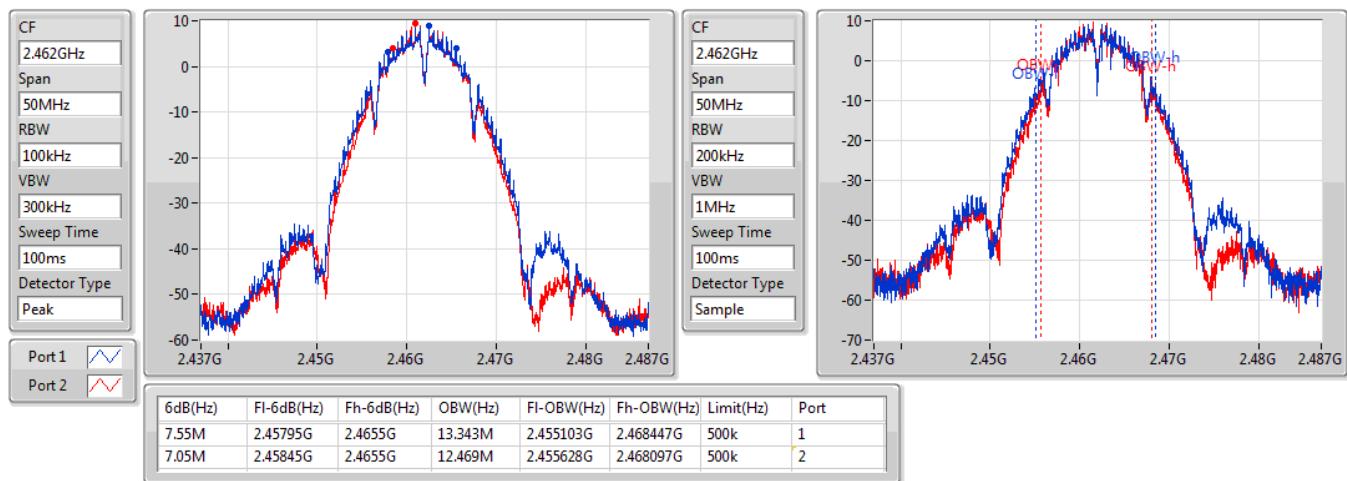
18/04/2019


802.11b_Nss1,(1Mbps)_2TX

EBW

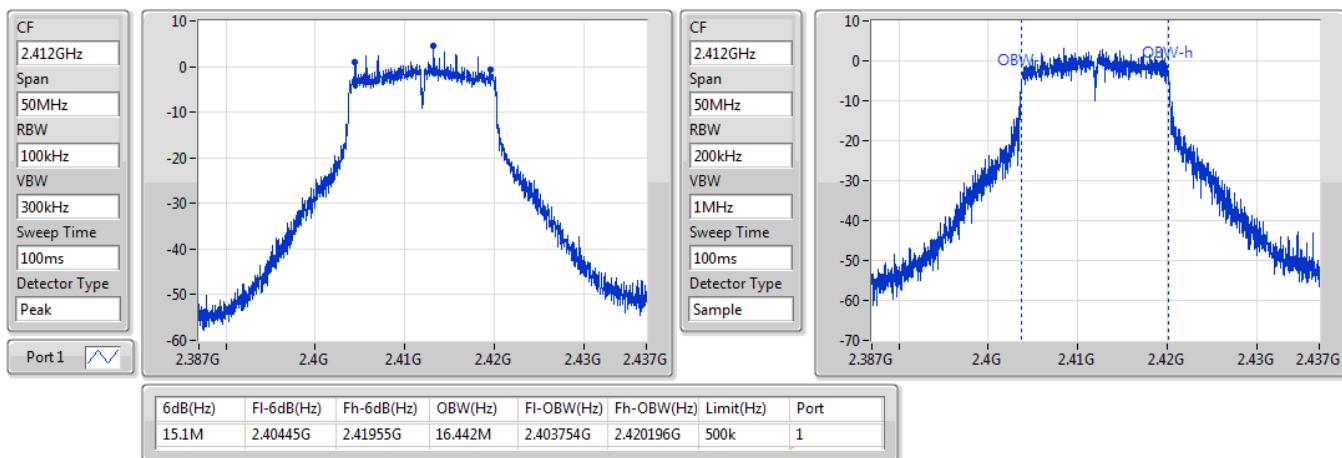
2462MHz

18/04/2019

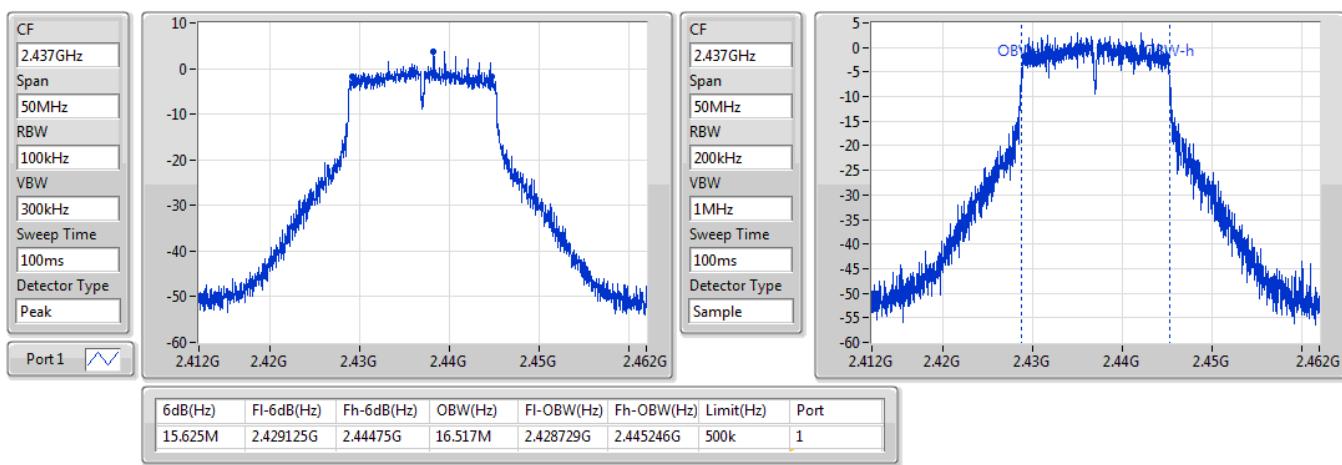


802.11g_Nss1,(6Mbps)_1TX
EBW
2412MHz

24/01/2019

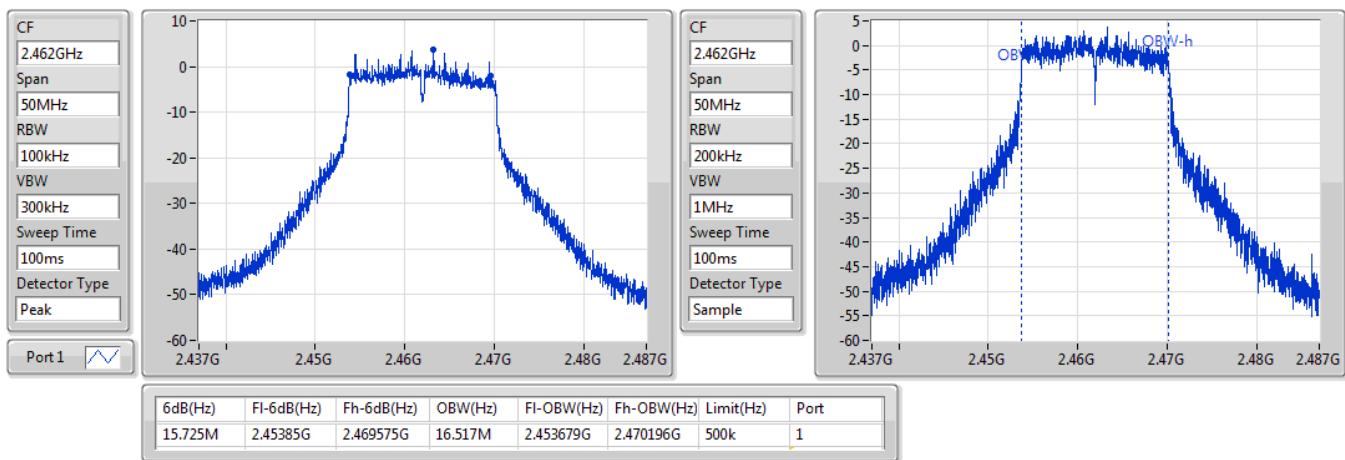

802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

24/01/2019

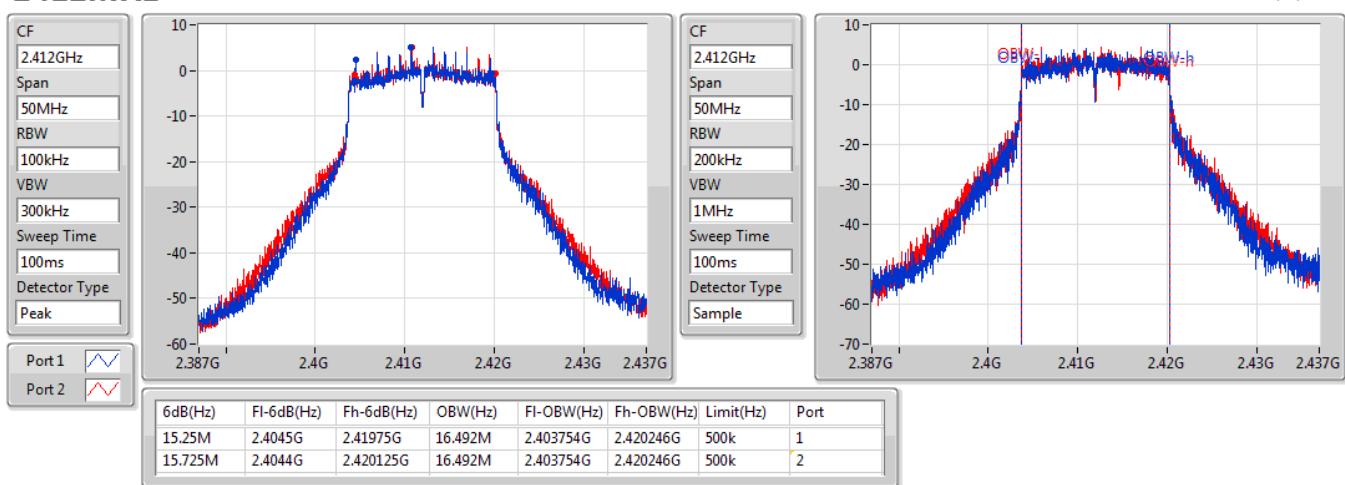


802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

24/01/2019

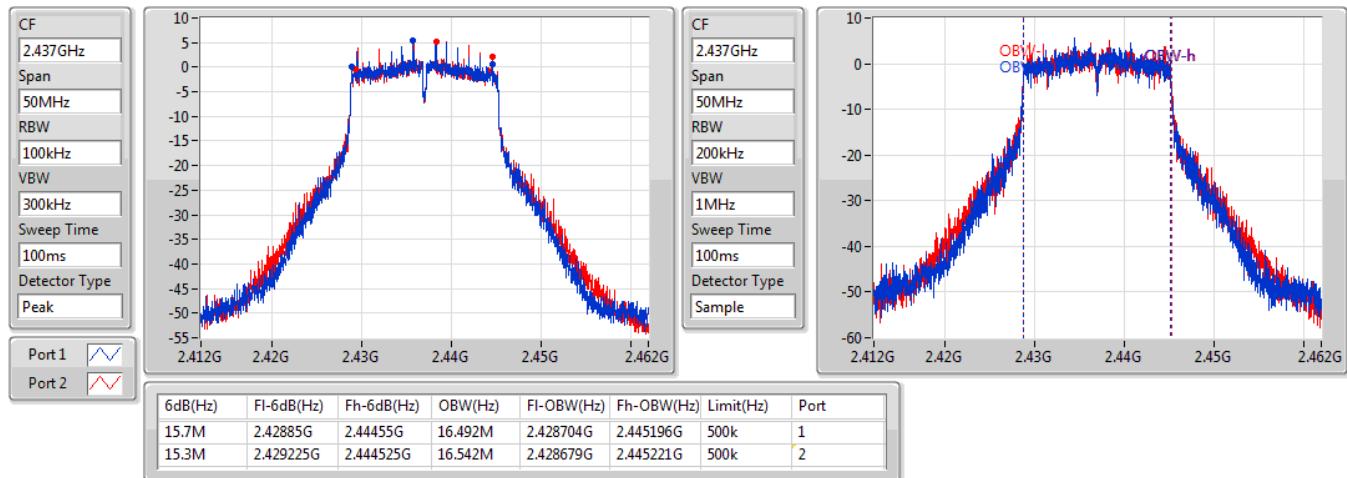

802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

22/04/2019

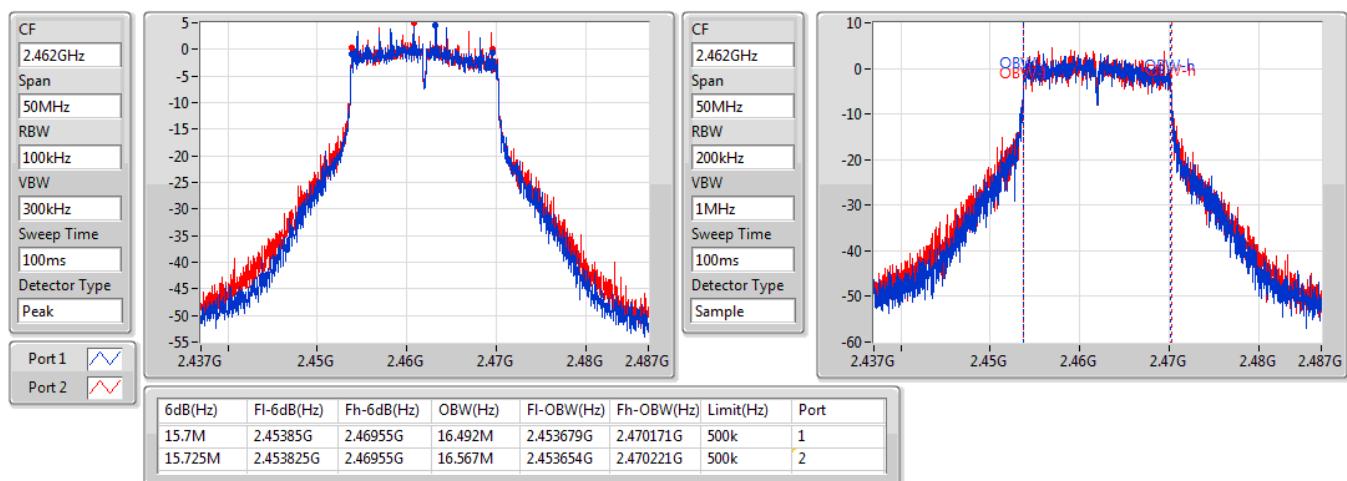


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

22/04/2019

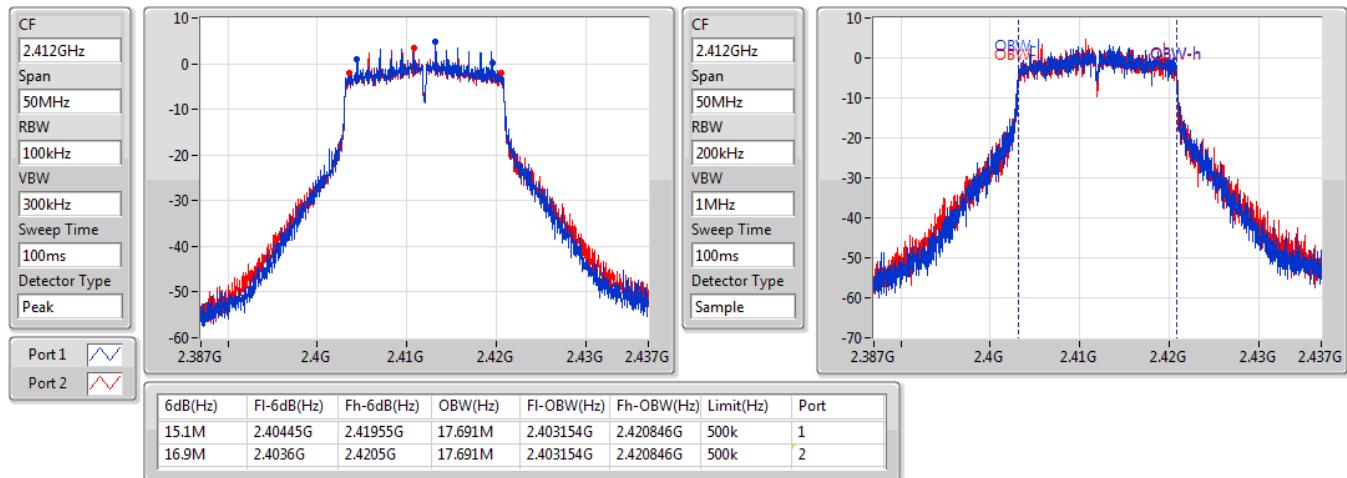

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

22/04/2019

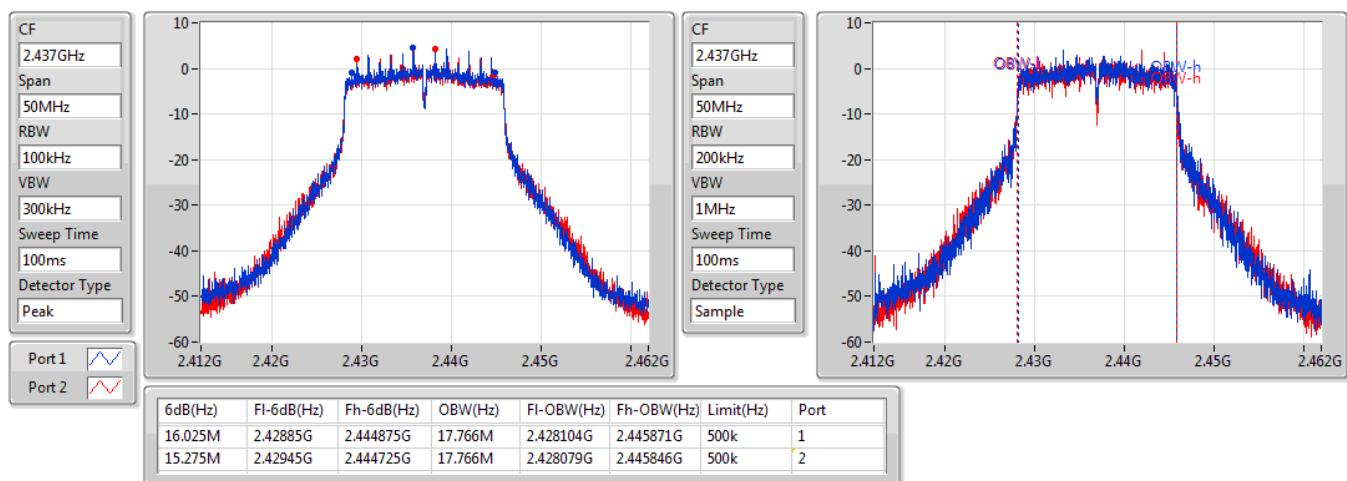


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2412MHz

24/01/2019


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2437MHz

24/01/2019

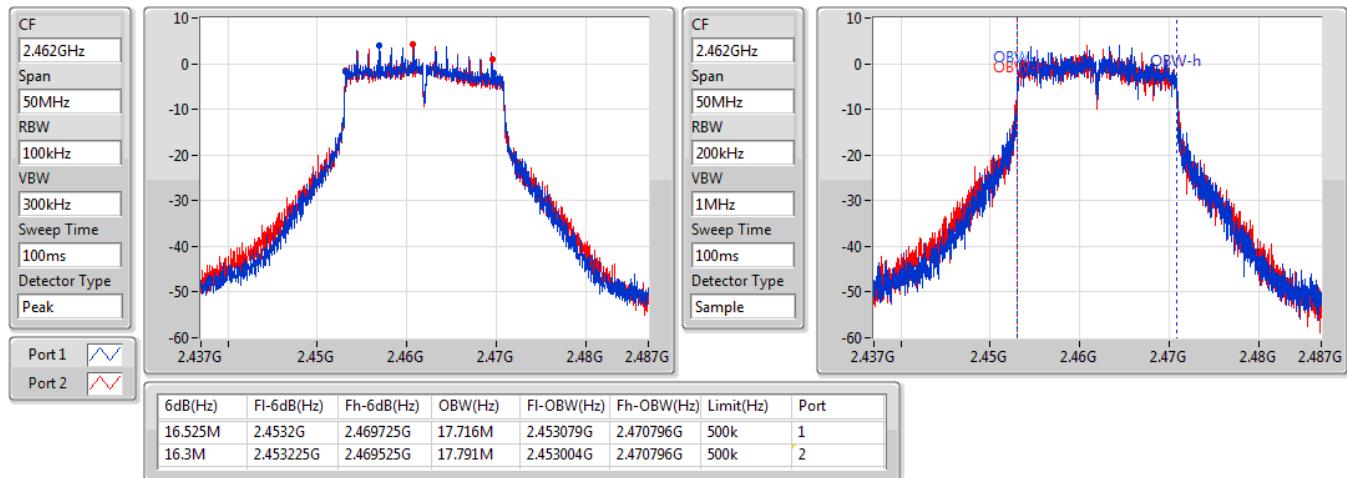


802.11n HT20_Nss1,(MCS0)_2TX

EBW

2462MHz

24/01/2019



**Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	18.49	0.07063
802.11b_Nss1,(1Mbps)_2TX	21.46	0.13996
802.11g_Nss1,(6Mbps)_1TX	15.18	0.03296
802.11g_Nss1,(6Mbps)_2TX	18.46	0.07015
802.11n HT20_Nss1,(MCS0)_2TX	18.39	0.06902



Average Power

Appendix C

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-
2412MHz	Pass	2.93	18.49		18.49	30.00
2417MHz	Pass	2.93	18.49		18.49	30.00
2437MHz	Pass	2.93	18.24		18.24	30.00
2457MHz	Pass	2.93	18.36		18.36	30.00
2462MHz	Pass	2.93	18.23		18.23	30.00
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.93	18.48	18.41	21.46	30.00
2417MHz	Pass	2.93	18.45	18.35	21.41	30.00
2437MHz	Pass	2.93	18.47	18.02	21.26	30.00
2457MHz	Pass	2.93	18.49	18.11	21.31	30.00
2462MHz	Pass	2.93	18.22	18.14	21.19	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
2412MHz	Pass	2.93	15.18		15.18	30.00
2417MHz	Pass	2.93	15.15		15.15	30.00
2437MHz	Pass	2.93	15.11		15.11	30.00
2457MHz	Pass	2.93	15.12		15.12	30.00
2462MHz	Pass	2.93	15.02		15.02	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.93	14.96	15.11	18.05	30.00
2417MHz	Pass	2.93	14.95	15.08	18.03	30.00
2437MHz	Pass	2.93	15.47	15.42	18.46	30.00
2457MHz	Pass	2.93	14.74	15.10	17.93	30.00
2462MHz	Pass	2.93	14.81	15.06	17.95	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.93	15.43	15.33	18.39	30.00
2417MHz	Pass	2.93	15.39	15.33	18.37	30.00
2437MHz	Pass	2.93	15.49	15.21	18.36	30.00
2457MHz	Pass	2.93	15.39	15.15	18.28	30.00
2462MHz	Pass	2.93	15.46	15.12	18.30	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	-5.37
802.11b_Nss1,(1Mbps)_2TX	-3.53
802.11g_Nss1,(6Mbps)_1TX	-10.62
802.11g_Nss1,(6Mbps)_2TX	-8.53
802.11n HT20_Nss1,(MCS0)_2TX	-9.77

RBW=3 kHz.



Result

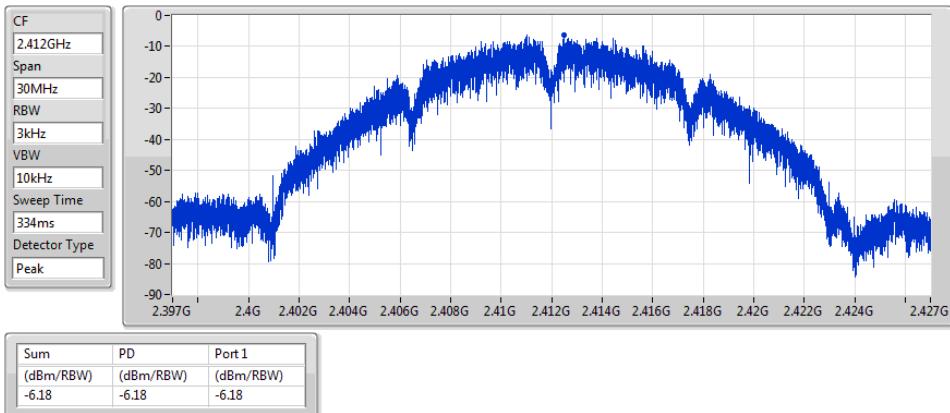
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-
2412MHz	Pass	2.93	-6.18		-6.18	8.00
2437MHz	Pass	2.93	-5.37		-5.37	8.00
2462MHz	Pass	2.93	-5.90		-5.90	8.00
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.94	-4.71	-4.96	-3.56	8.00
2437MHz	Pass	5.94	-5.90	-5.59	-3.53	8.00
2462MHz	Pass	5.94	-5.66	-5.65	-3.92	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
2412MHz	Pass	2.93	-10.62		-10.62	8.00
2437MHz	Pass	2.93	-11.30		-11.30	8.00
2462MHz	Pass	2.93	-10.93		-10.93	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.94	-10.02	-9.82	-9.12	8.00
2437MHz	Pass	5.94	-9.87	-10.57	-8.53	8.00
2462MHz	Pass	5.94	-10.33	-10.73	-8.71	8.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.94	-11.19	-11.08	-9.77	8.00
2437MHz	Pass	5.94	-11.39	-11.90	-9.93	8.00
2462MHz	Pass	5.94	-12.25	-12.42	-10.94	8.00

DG = Directional Gain; RBW=3 kHz;

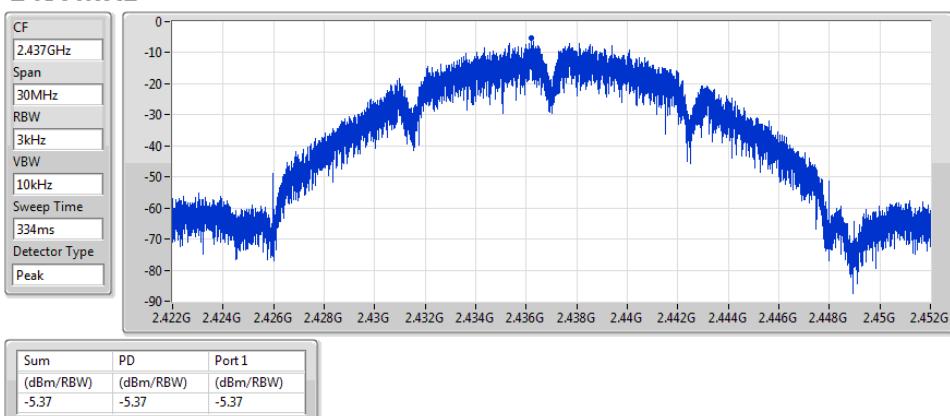
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_1TX
PSD
2412MHz

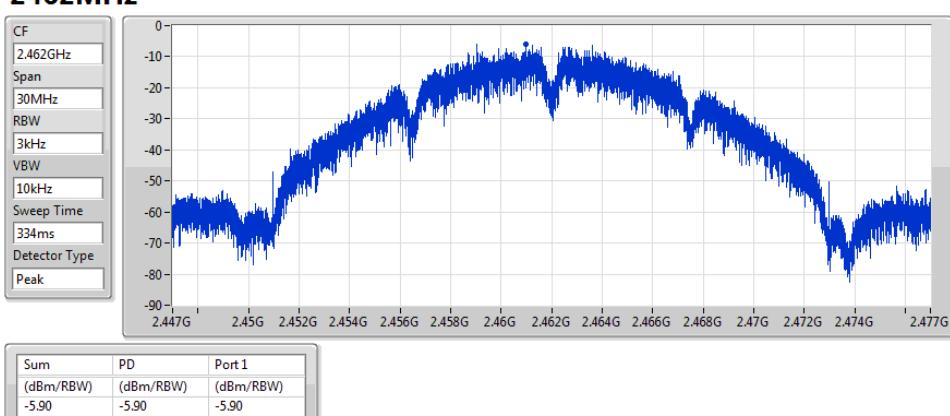
24/01/2019

Port 1

802.11b_Nss1,(1Mbps)_1TX
PSD
2437MHz

24/01/2019

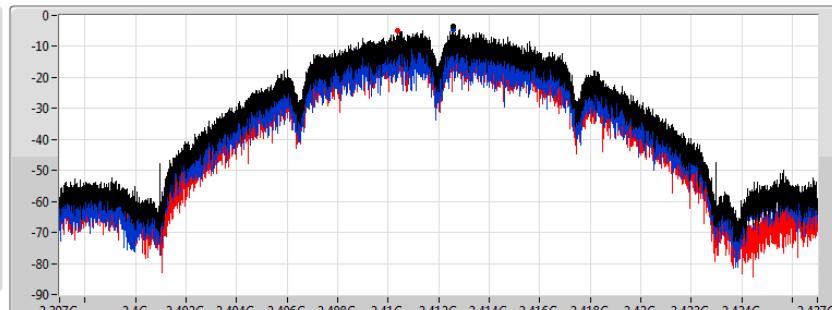
Port 1

802.11b_Nss1,(1Mbps)_1TX
PSD
2462MHz

24/01/2019

Port 1


802.11b_Nss1,(1Mbps)_2TX
PSD
2412MHz

CF	2.412GHz
Span	30MHz
RBW	3kHz
VBW	10kHz
Sweep Time	334ms
Detector Type	Peak

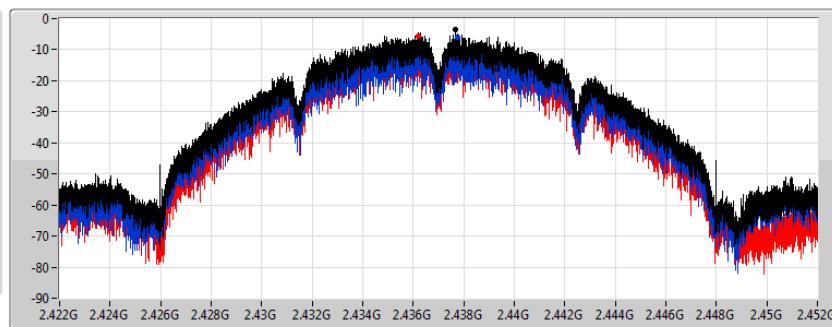


18/04/2019

Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

802.11b_Nss1,(1Mbps)_2TX
PSD
2437MHz

CF	2.437GHz
Span	30MHz
RBW	3kHz
VBW	10kHz
Sweep Time	334ms
Detector Type	Peak

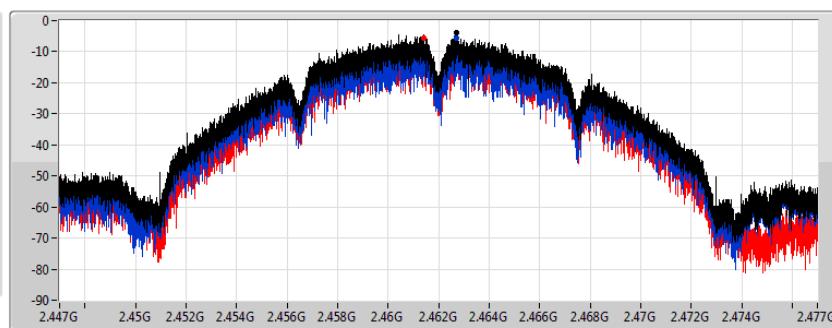


18/04/2019

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Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

802.11b_Nss1,(1Mbps)_2TX
PSD
2462MHz

CF	2.462GHz
Span	30MHz
RBW	3kHz
VBW	10kHz
Sweep Time	334ms
Detector Type	Peak

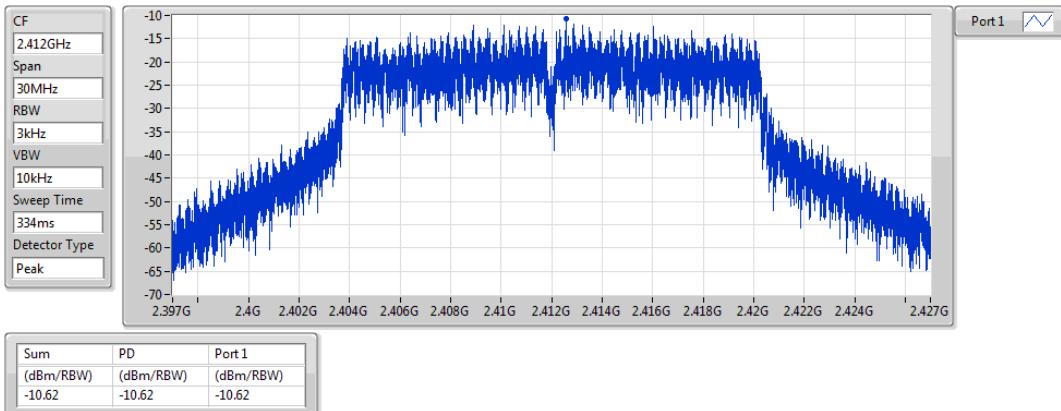


18/04/2019

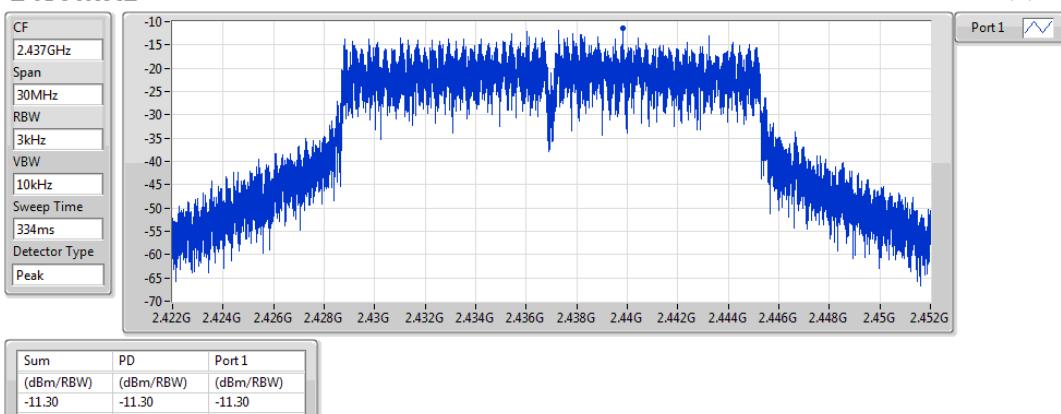
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Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

802.11g_Nss1,(6Mbps)_1TX
PSD
2412MHz

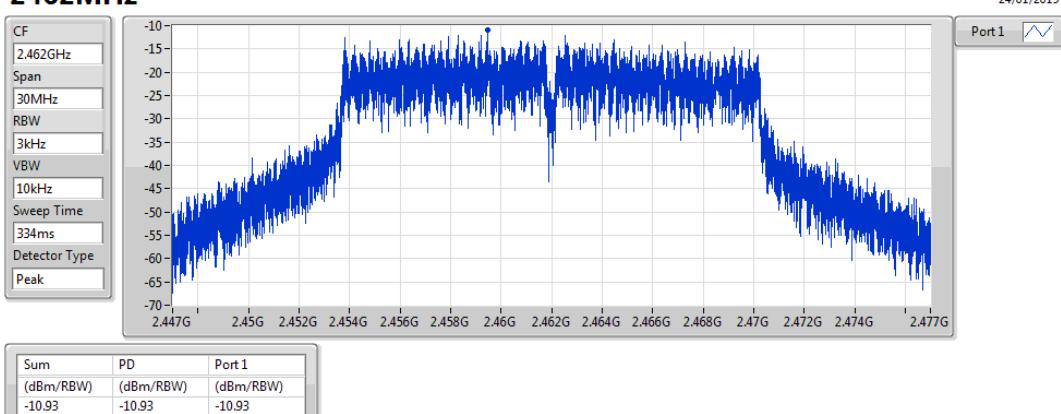
24/01/2019


802.11g_Nss1,(6Mbps)_1TX
PSD
2437MHz

24/01/2019

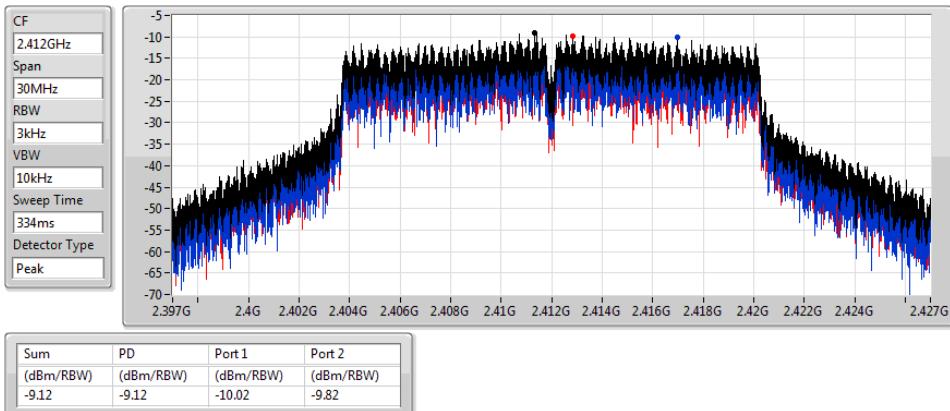

802.11g_Nss1,(6Mbps)_1TX
PSD
2462MHz

24/01/2019

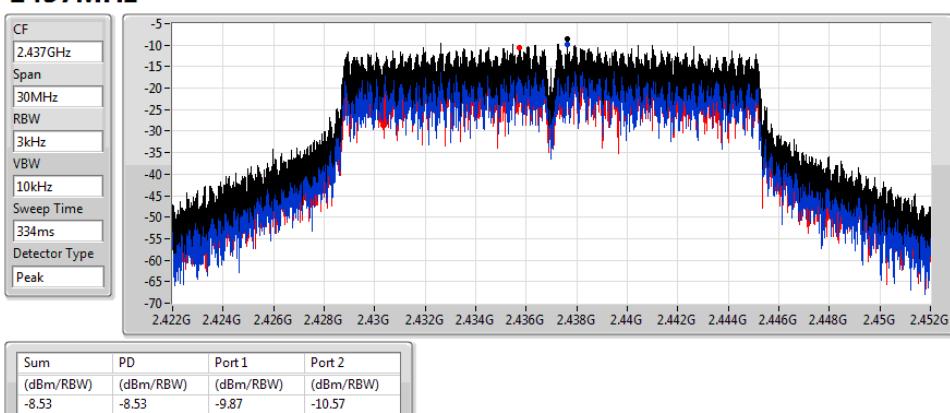


802.11g_Nss1,(6Mbps)_2TX
PSD
2412MHz

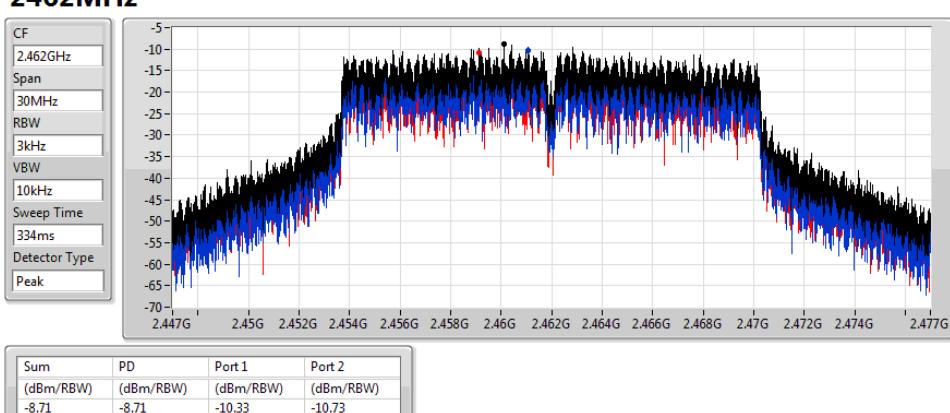
22/04/2019


802.11g_Nss1,(6Mbps)_2TX
PSD
2437MHz

22/04/2019


802.11g_Nss1,(6Mbps)_2TX
PSD
2462MHz

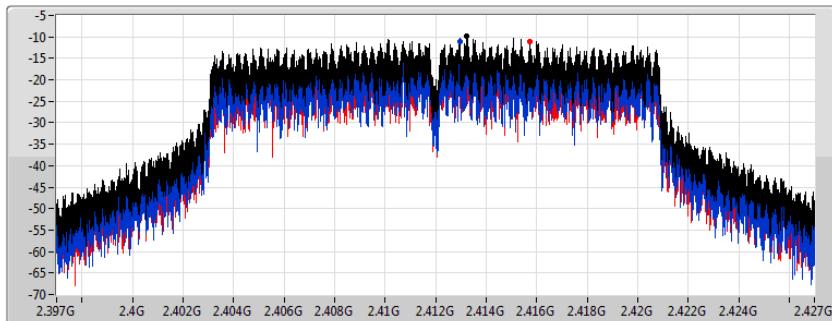
22/04/2019



802.11n HT20_Nss1,(MCS0)_2TX
PSD
2412MHz

24/01/2019

CF	2.412GHz
Span	30MHz
RBW	3kHz
VBW	10kHz
Sweep Time	334ms
Detector Type	Peak

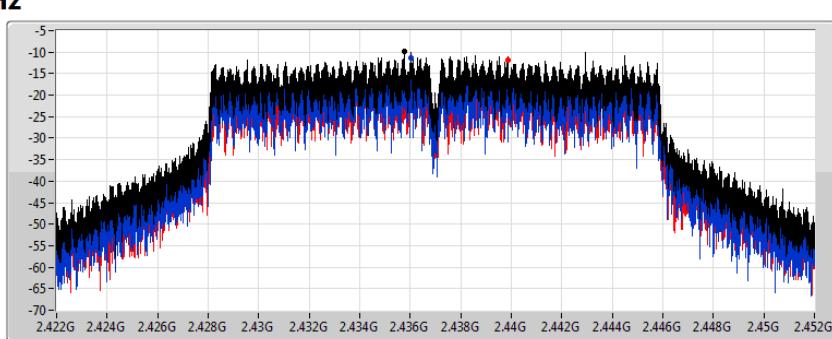


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Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

802.11n HT20_Nss1,(MCS0)_2TX
PSD
2437MHz

24/01/2019

CF	2.437GHz
Span	30MHz
RBW	3kHz
VBW	10kHz
Sweep Time	334ms
Detector Type	Peak

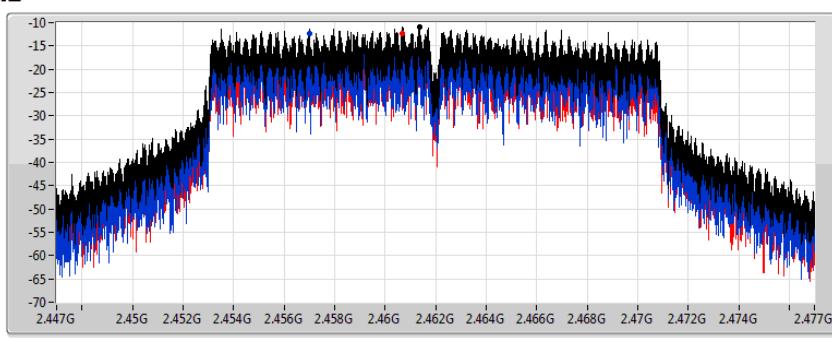


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Port 2	<input type="checkbox"/>

802.11n HT20_Nss1,(MCS0)_2TX
PSD
2462MHz

24/01/2019

CF	2.462GHz
Span	30MHz
RBW	3kHz
VBW	10kHz
Sweep Time	334ms
Detector Type	Peak



Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.94	-10.94	-12.25	-12.42



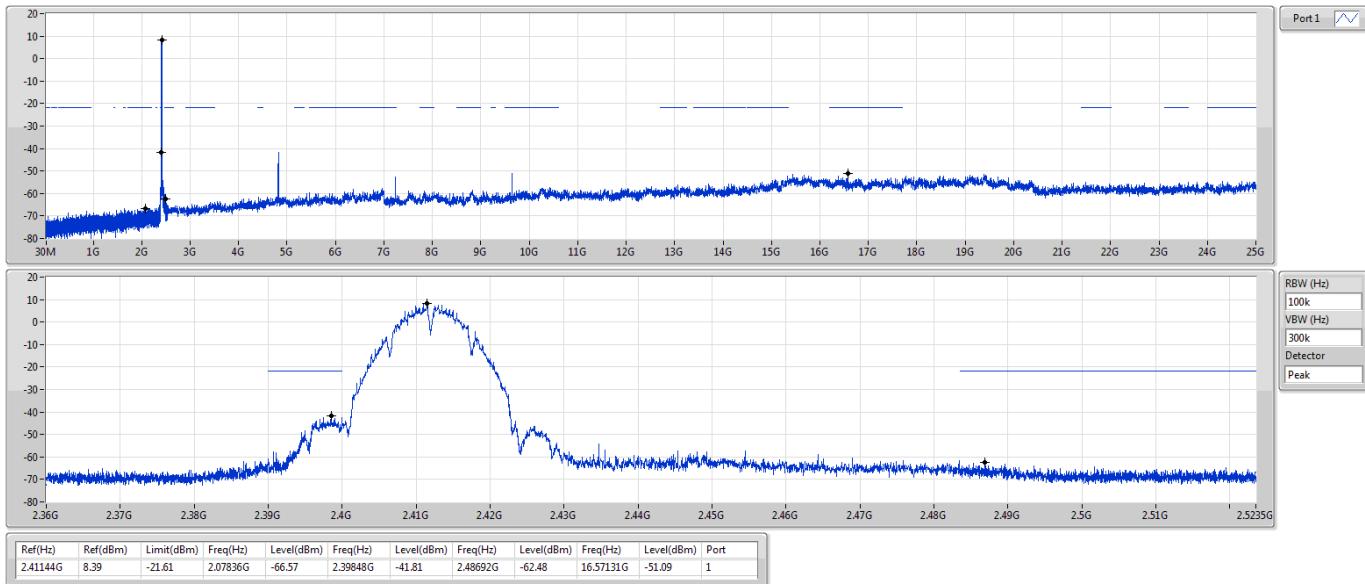
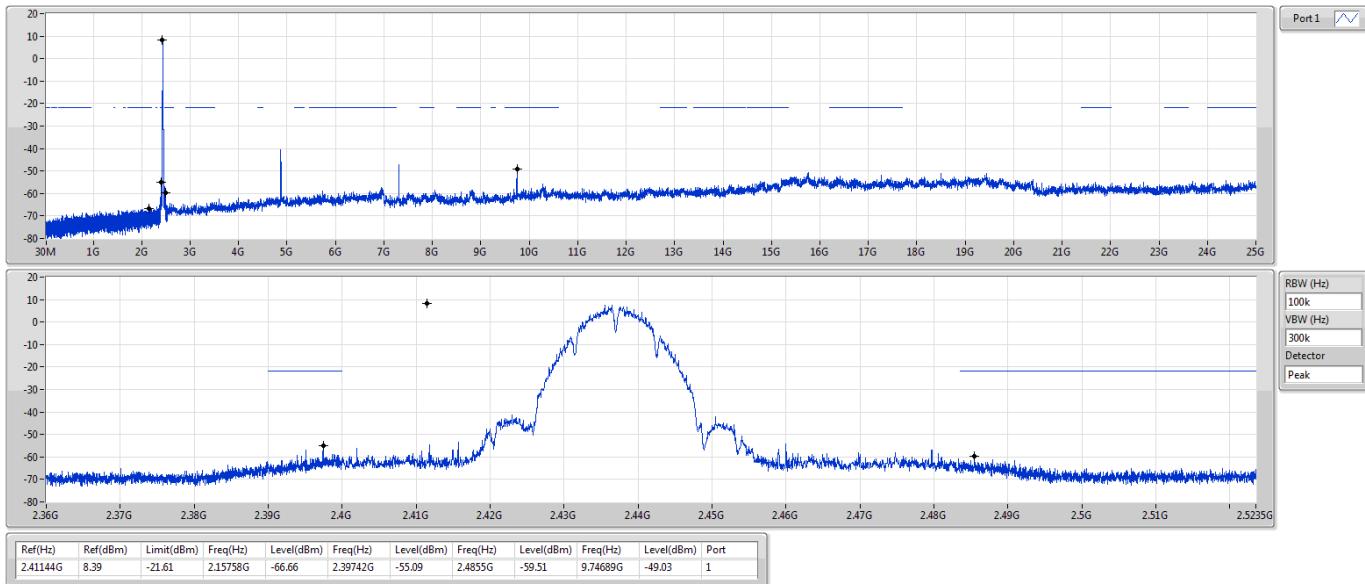
Summary

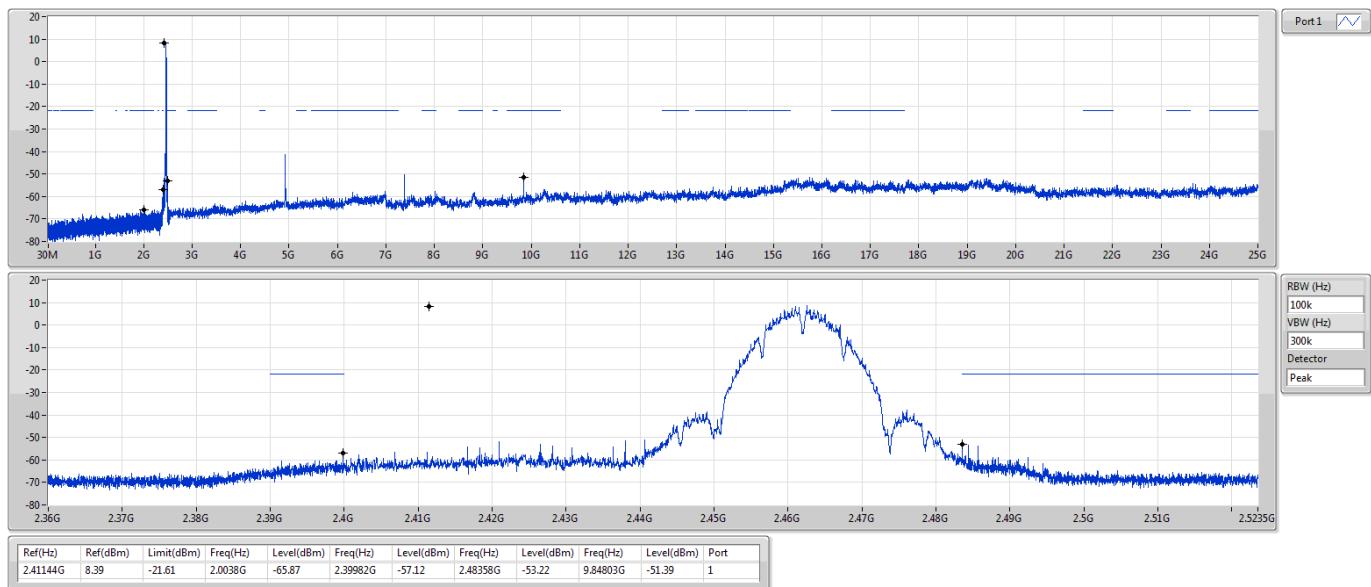
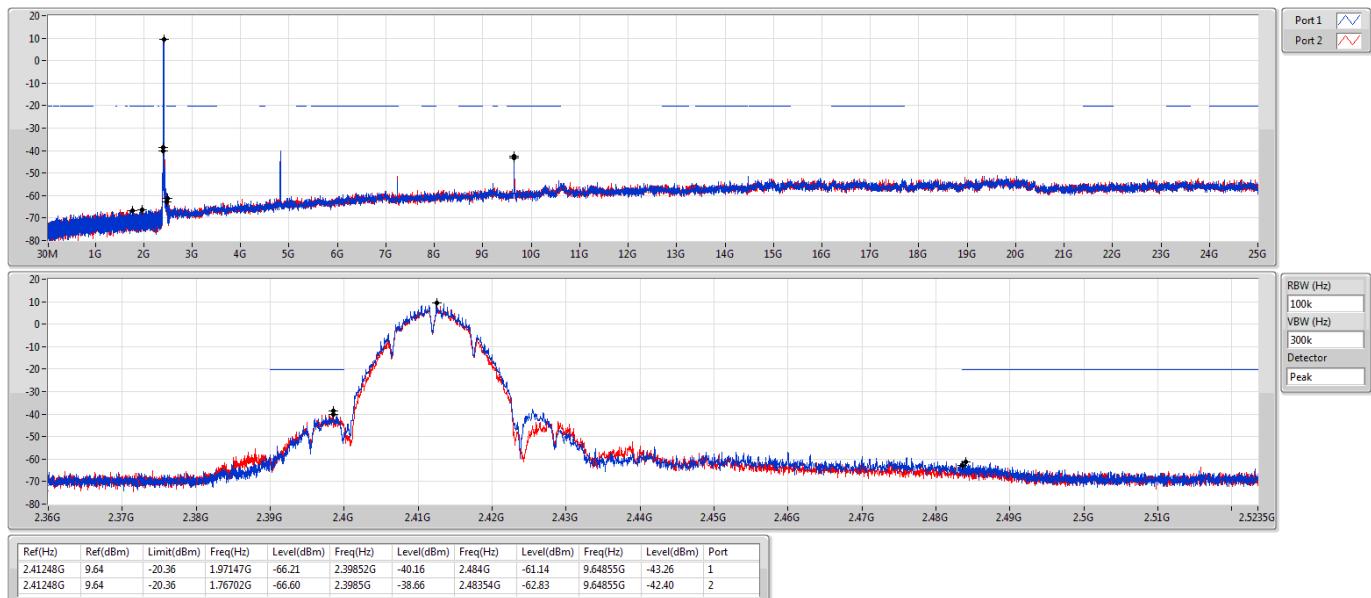
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.41144G	8.39	-21.61	2.07836G	-66.57	2.39848G	-41.81	2.48692G	-62.48	16.57131G	-51.09	1
802.11b_Nss1,(1Mbps)_2TX	Pass	2.41248G	9.64	-20.36	1.76702G	-66.60	2.3985G	-38.66	2.48354G	-62.83	9.64855G	-42.40	2
802.11g_Nss1,(6Mbps)_1TX	Pass	2.40697G	2.90	-27.10	1.89779G	-65.76	2.39974G	-27.22	2.48392G	-57.16	9.64855G	-48.94	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.4357G	5.57	-24.43	1.95575G	-65.02	2.39946G	-25.96	2.48396G	-59.47	9.64855G	-41.54	2
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.41449G	4.28	-25.72	2.30641G	-66.54	2.3998G	-26.18	2.48754G	-58.45	9.64855G	-42.64	2

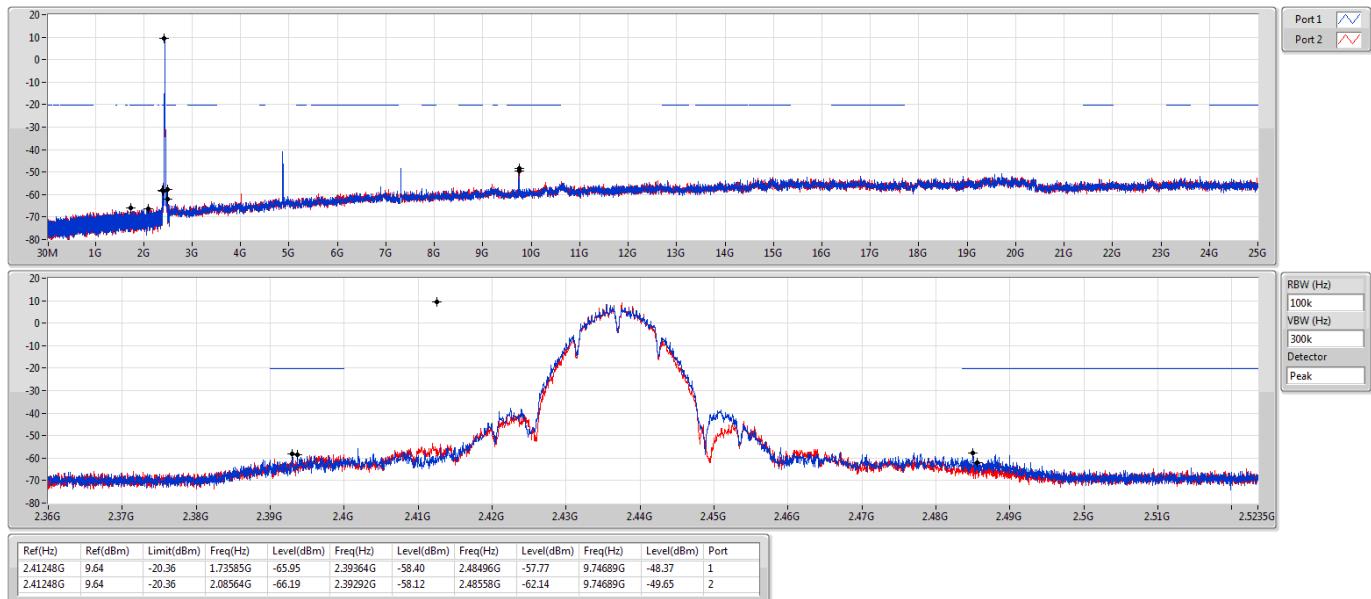
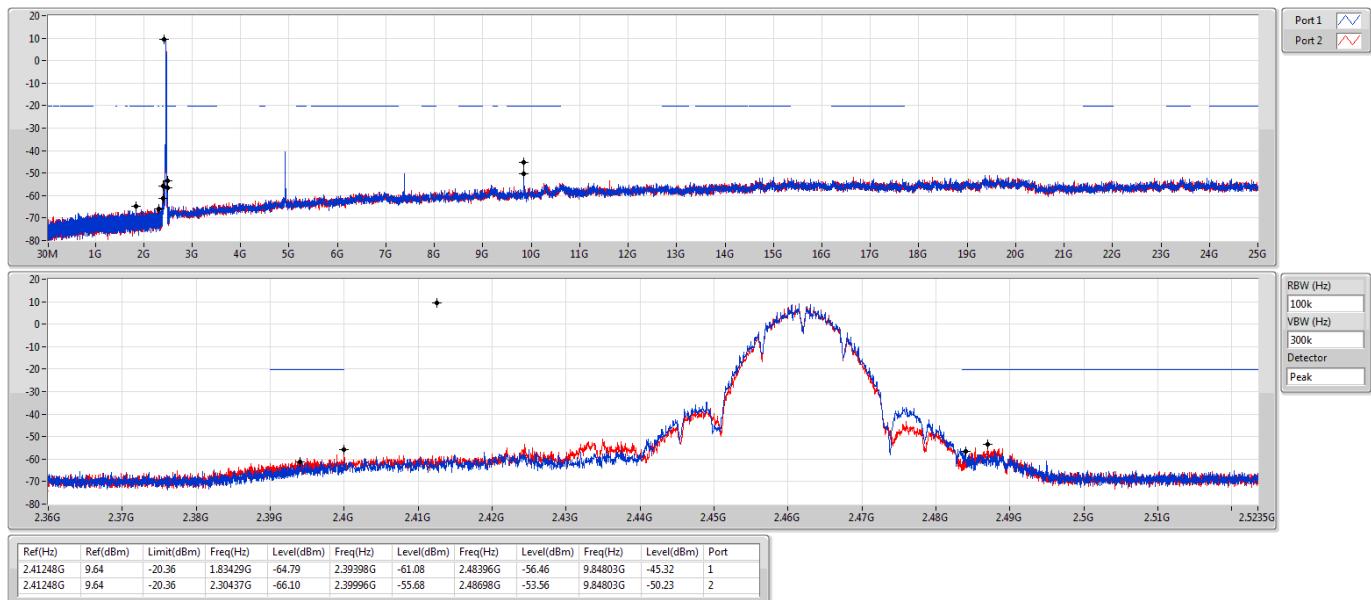


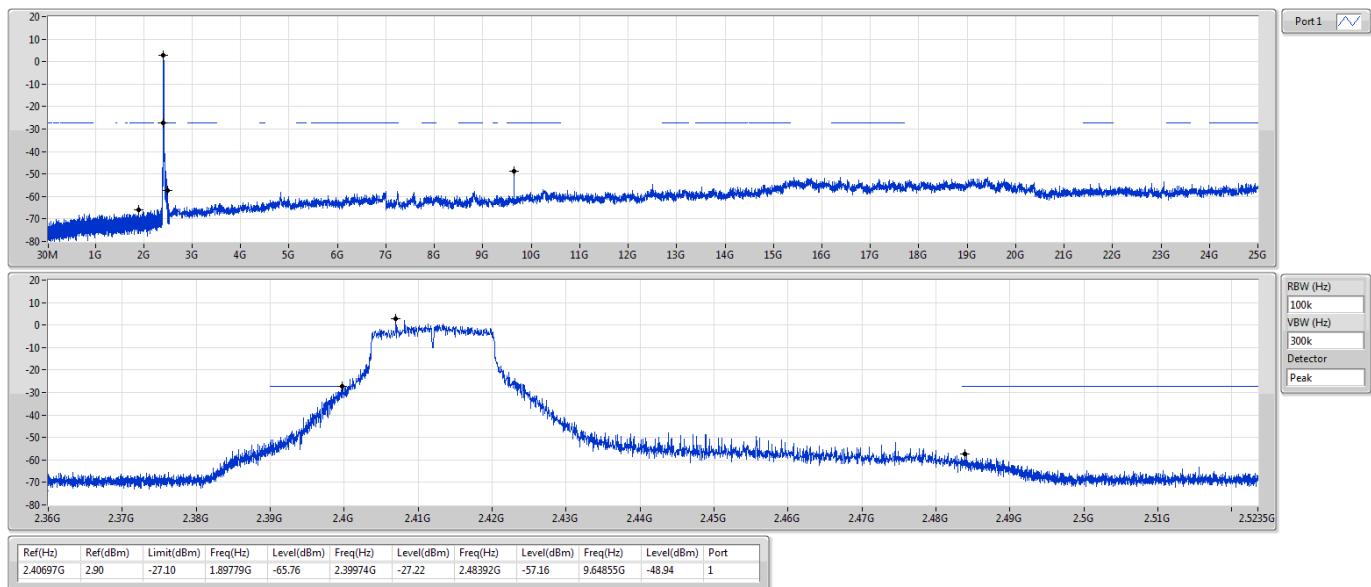
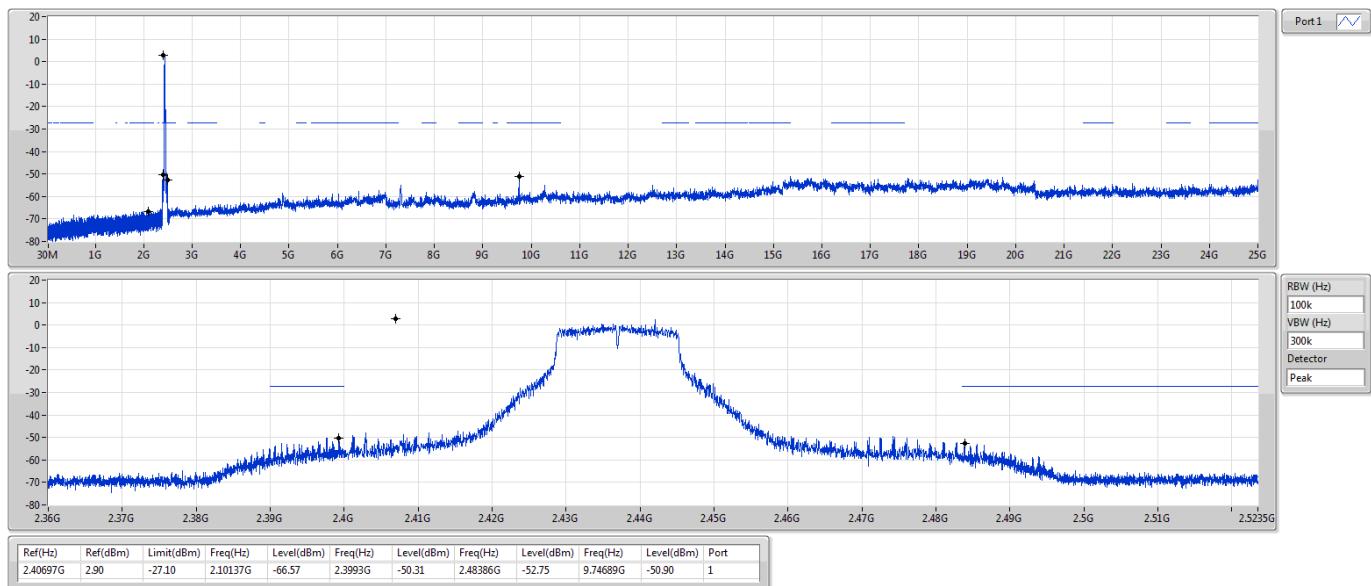
Result

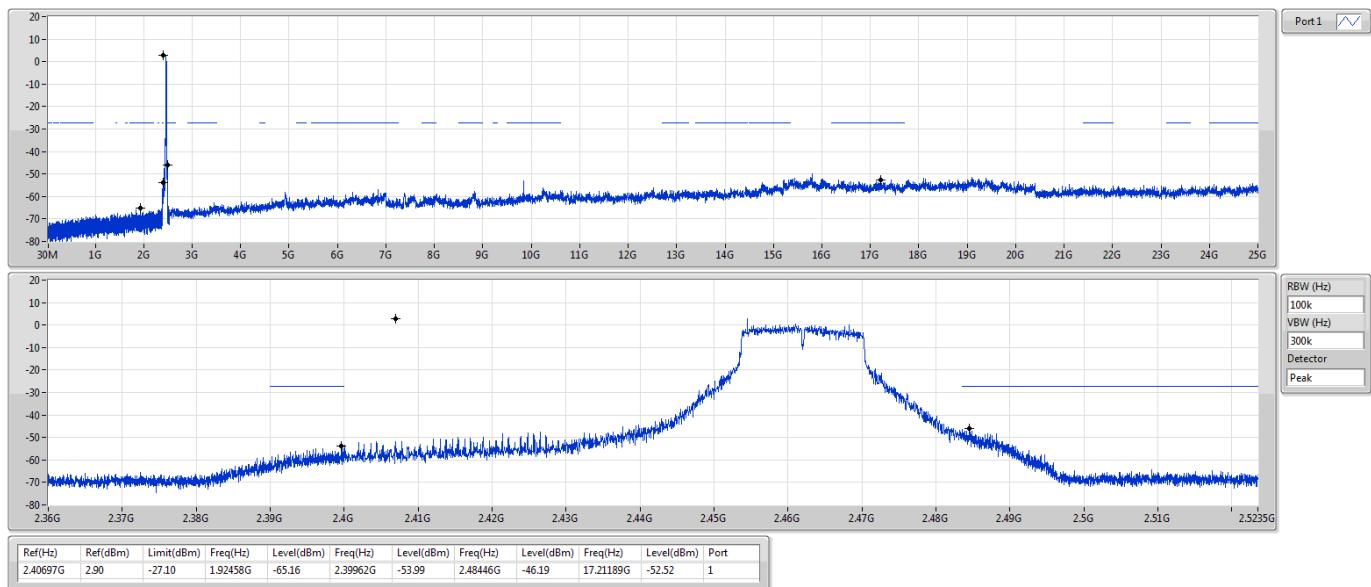
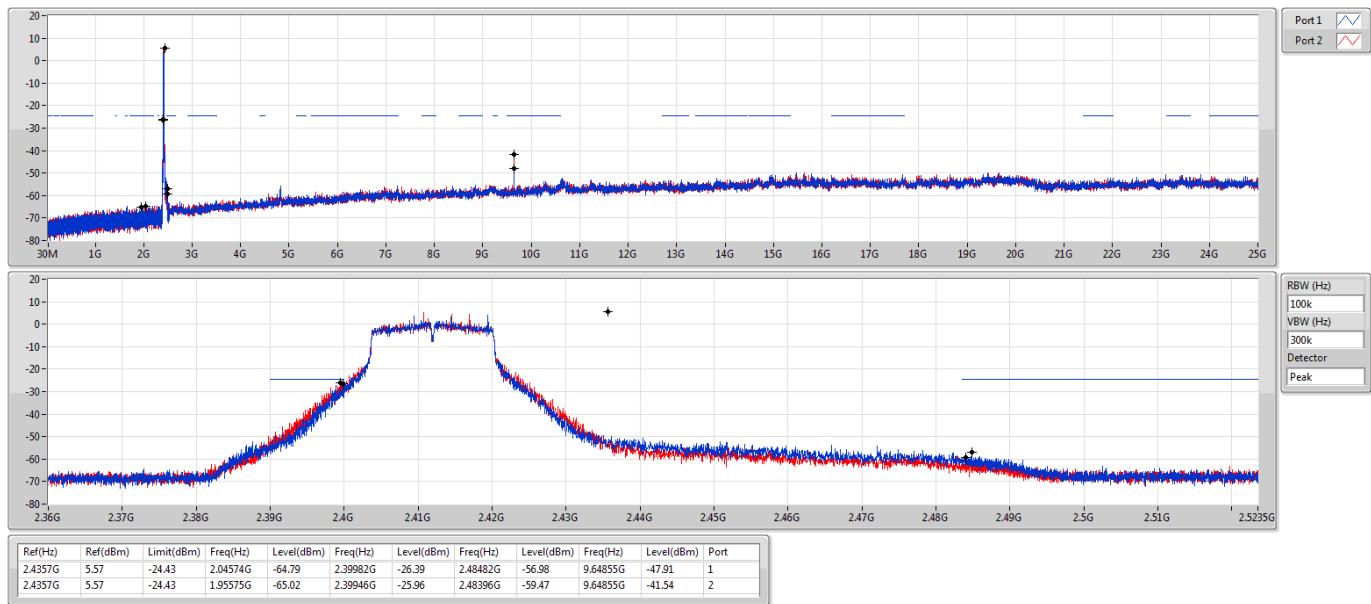
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41144G	8.39	-21.61	2.07836G	-66.57	2.39848G	-41.81	2.48692G	-62.48	16.57131G	-51.09	1
2437MHz	Pass	2.41144G	8.39	-21.61	2.15758G	-66.66	2.39742G	-55.09	2.4855G	-59.51	9.74689G	-49.03	1
2462MHz	Pass	2.41144G	8.39	-21.61	2.0038G	-65.87	2.39982G	-57.12	2.48358G	-53.22	9.84803G	-51.39	1
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41248G	9.64	-20.36	1.97147G	-66.21	2.39852G	-40.16	2.484G	-61.14	9.64855G	-43.26	1
2412MHz	Pass	2.41248G	9.64	-20.36	1.76702G	-66.60	2.3985G	-38.66	2.48354G	-62.83	9.64855G	-42.40	2
2437MHz	Pass	2.41248G	9.64	-20.36	1.73585G	-65.95	2.39364G	-58.40	2.48496G	-57.77	9.74689G	-48.37	1
2437MHz	Pass	2.41248G	9.64	-20.36	2.08564G	-66.19	2.39292G	-58.12	2.48558G	-62.14	9.74689G	-49.65	2
2462MHz	Pass	2.41248G	9.64	-20.36	1.83429G	-64.79	2.39398G	-61.08	2.48396G	-56.46	9.84803G	-45.32	1
2462MHz	Pass	2.41248G	9.64	-20.36	2.30437G	-66.10	2.39996G	-55.68	2.48698G	-53.56	9.84803G	-50.23	2
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.40697G	2.90	-27.10	1.89779G	-65.76	2.39974G	-27.22	2.48392G	-57.16	9.64855G	-48.94	1
2437MHz	Pass	2.40697G	2.90	-27.10	2.10137G	-66.57	2.3993G	-50.31	2.48386G	-52.75	9.74689G	-50.90	1
2462MHz	Pass	2.40697G	2.90	-27.10	1.92458G	-65.16	2.39962G	-53.99	2.48446G	-46.19	17.21189G	-52.52	1
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4357G	5.57	-24.43	2.04574G	-64.79	2.39982G	-26.39	2.48482G	-56.98	9.64855G	-47.91	1
2412MHz	Pass	2.4357G	5.57	-24.43	1.95575G	-65.02	2.39946G	-25.96	2.48396G	-59.47	9.64855G	-41.54	2
2437MHz	Pass	2.4357G	5.57	-24.43	2.30874G	-64.54	2.39608G	-53.82	2.48634G	-55.51	9.74689G	-48.85	1
2437MHz	Pass	2.4357G	5.57	-24.43	2.0038G	-65.67	2.39322G	-52.41	2.48658G	-56.81	9.74689G	-44.32	2
2462MHz	Pass	2.4357G	5.57	-24.43	2.02419G	-64.60	2.39696G	-54.61	2.48382G	-47.76	9.84803G	-51.01	1
2462MHz	Pass	2.4357G	5.57	-24.43	2.30758G	-64.68	2.39998G	-54.87	2.48382G	-44.22	9.84803G	-46.60	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41449G	4.28	-25.72	2.3035G	-64.91	2.39984G	-26.88	2.4855G	-56.68	9.64855G	-49.07	1
2412MHz	Pass	2.41449G	4.28	-25.72	2.30641G	-66.54	2.3998G	-26.18	2.48754G	-58.45	9.64855G	-42.64	2
2437MHz	Pass	2.41449G	4.28	-25.72	1.87332G	-65.98	2.39444G	-49.83	2.48544G	-52.43	9.74689G	-51.34	1
2437MHz	Pass	2.41449G	4.28	-25.72	1.71779G	-66.28	2.39538G	-48.50	2.48608G	-53.23	9.74689G	-45.63	2
2462MHz	Pass	2.41449G	4.28	-25.72	2.18845G	-66.18	2.39848G	-53.74	2.48354G	-48.82	16.35779G	-51.66	1
2462MHz	Pass	2.41449G	4.28	-25.72	2.13894G	-66.06	2.39888G	-51.57	2.48386G	-45.77	9.84803G	-48.80	2

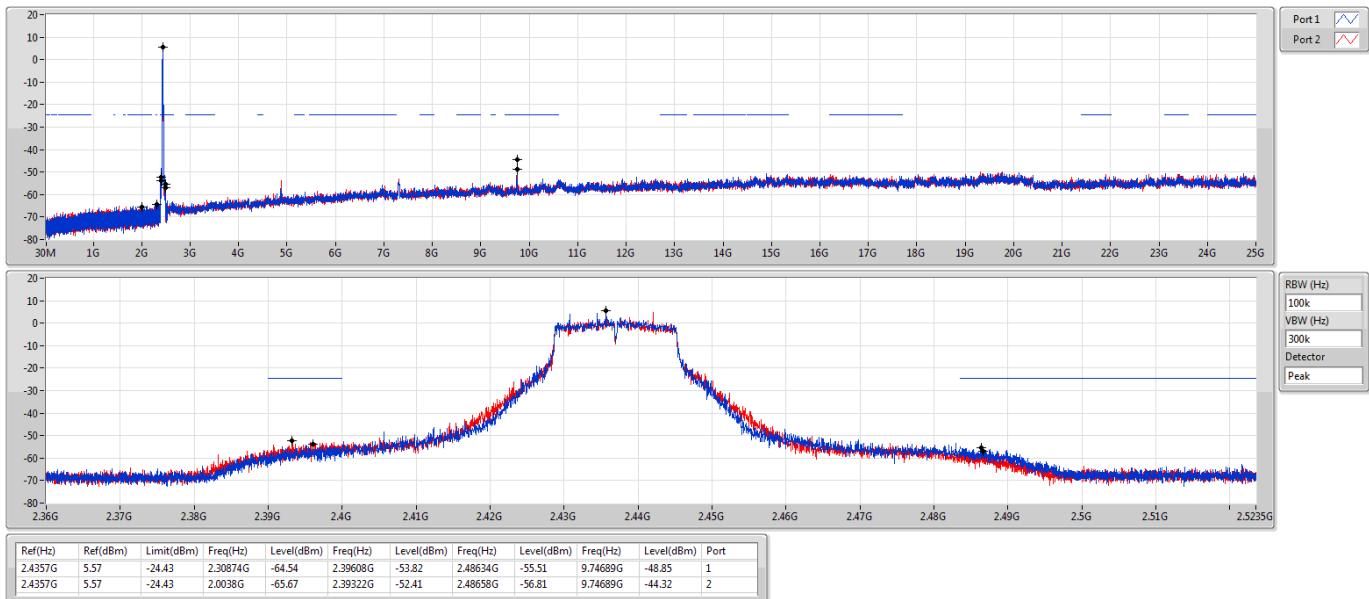
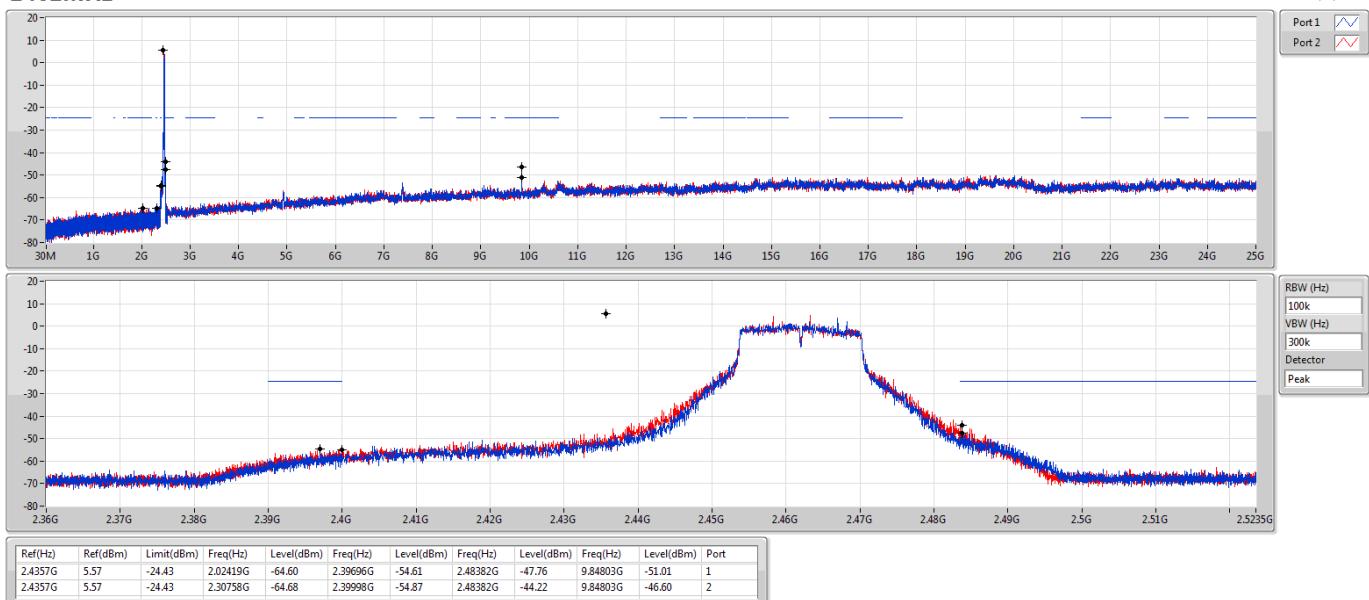
802.11b_Nss1,(1Mbps)_1TX
2412MHz

802.11b_Nss1,(1Mbps)_1TX
2437MHz


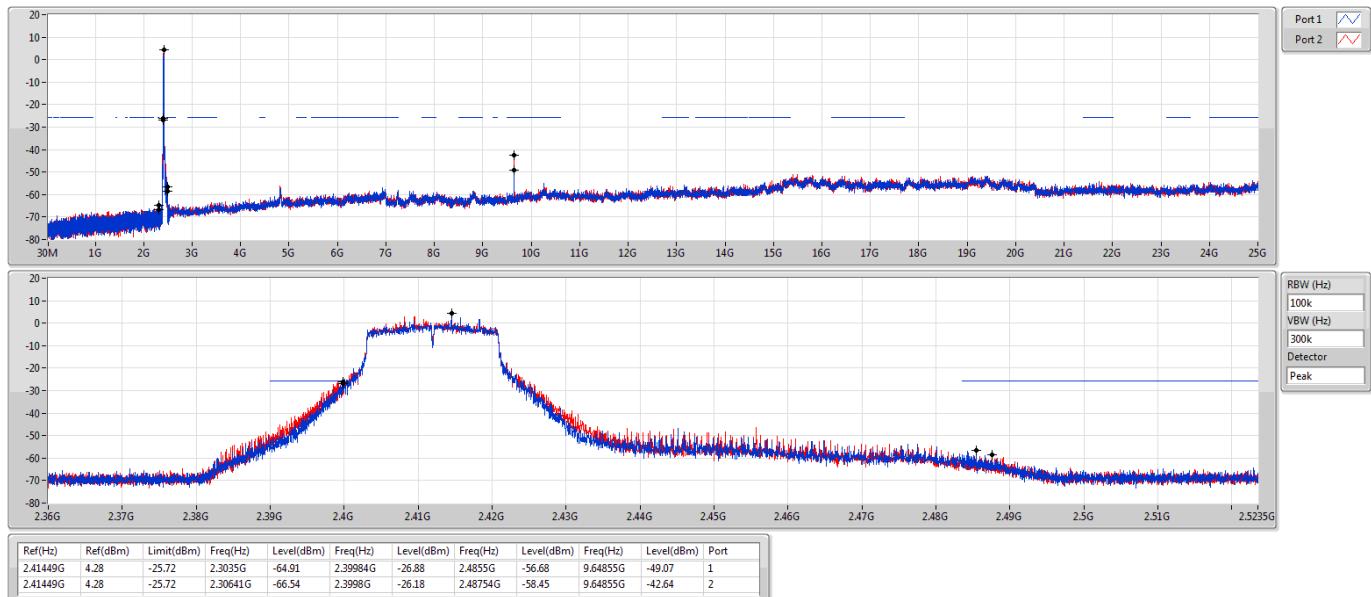
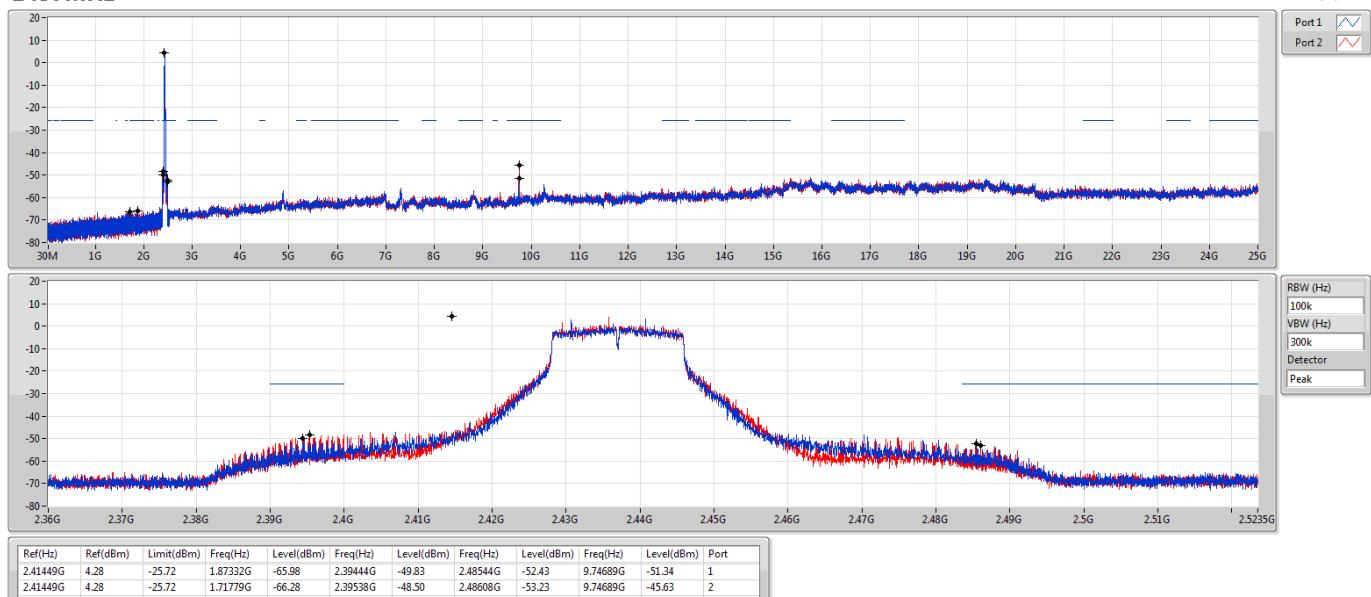
802.11b_Nss1,(1Mbps)_1TX
CSE NdB
2462MHz

802.11b_Nss1,(1Mbps)_2TX
CSE NdB
2412MHz


802.11b_Nss1,(1Mbps)_2TX
CSE NdB
2437MHz

802.11b_Nss1,(1Mbps)_2TX
CSE NdB
2462MHz


802.11g_Nss1,(6Mbps)_1TX
2412MHz

802.11g_Nss1,(6Mbps)_1TX
2437MHz


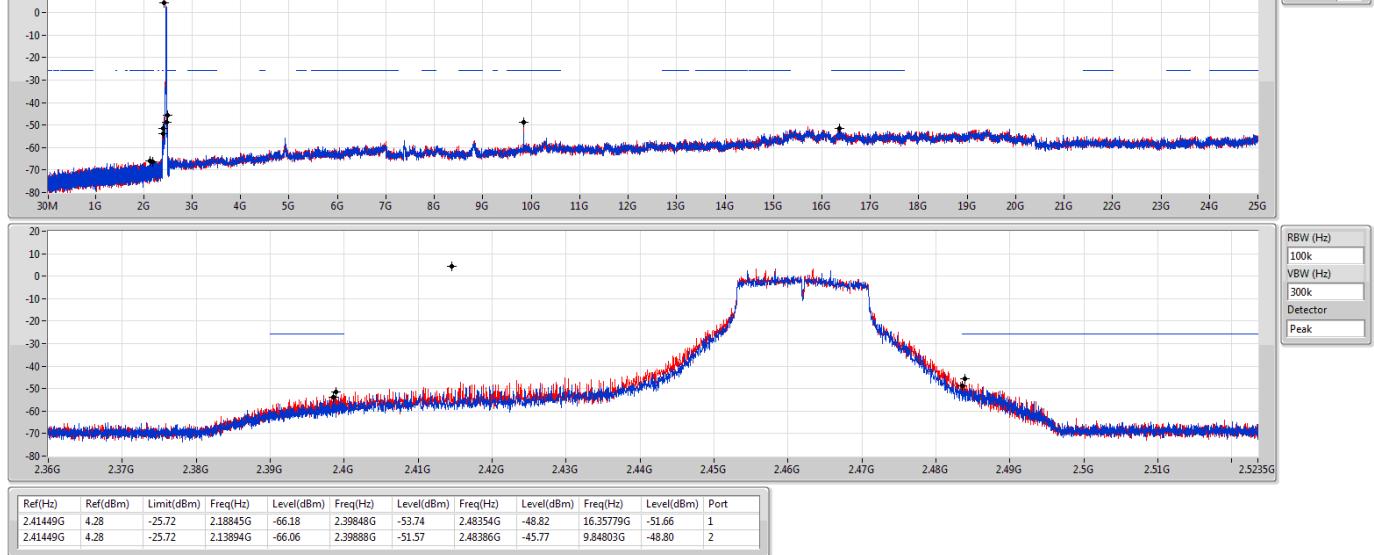
802.11g_Nss1,(6Mbps)_1TX
CSE NdB
2462MHz

802.11g_Nss1,(6Mbps)_2TX
CSE NdB
2412MHz


802.11g_Nss1,(6Mbps)_2TX
CSE NdB
2437MHz

802.11g_Nss1,(6Mbps)_2TX
CSE NdB
2462MHz


802.11n HT20_Nss1,(MCS0)_2TX
CSE NdB
2412MHz

802.11n HT20_Nss1,(MCS0)_2TX
CSE NdB
2437MHz


802.11n HT20_Nss1,(MCS0)_2TX
CSE NdB
2462MHz

24/01/2019

 Port 1
 Port 2


**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	PK	173.56M	40.45	43.50	-3.05	-20.92	3	Horizontal	0	3.00	-

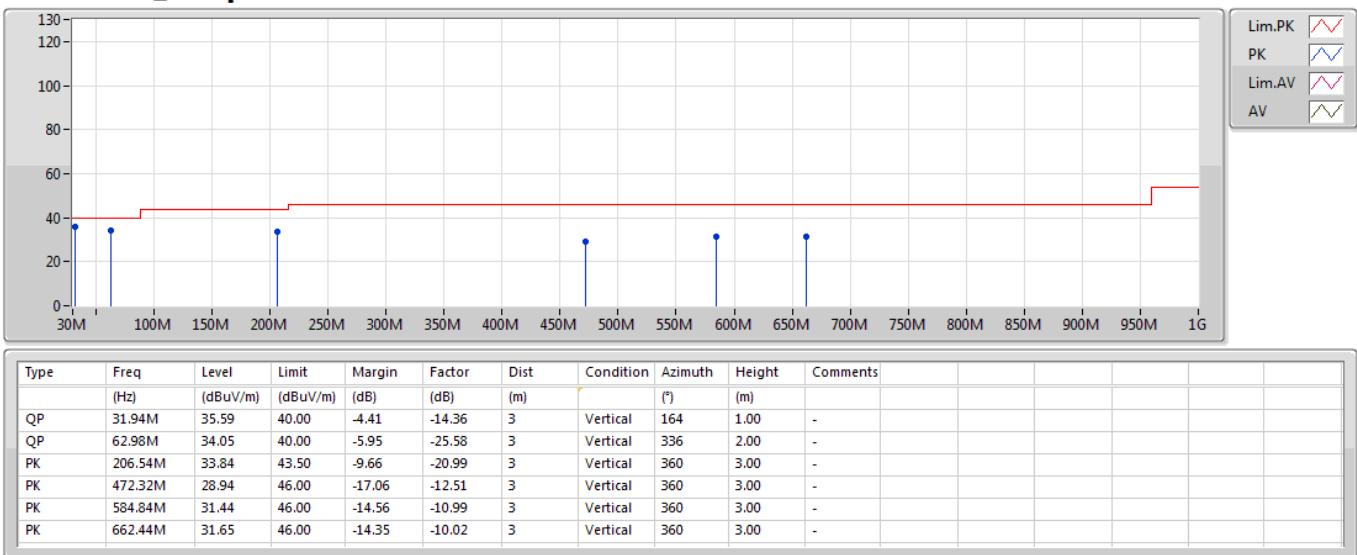


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	QP	31.94M	35.59	40.00	-4.41	-14.36	3	Vertical	164	1.00	-
2437MHz	Pass	QP	62.98M	34.05	40.00	-5.95	-25.58	3	Vertical	336	2.00	-
2437MHz	Pass	PK	206.54M	33.84	43.50	-9.66	-20.99	3	Vertical	360	3.00	-
2437MHz	Pass	PK	472.32M	28.94	46.00	-17.06	-12.51	3	Vertical	360	3.00	-
2437MHz	Pass	PK	584.84M	31.44	46.00	-14.56	-10.99	3	Vertical	360	3.00	-
2437MHz	Pass	PK	662.44M	31.65	46.00	-14.35	-10.02	3	Vertical	360	3.00	-
2437MHz	Pass	PK	30M	36.68	40.00	-3.32	-13.40	3	Horizontal	0	3.00	-
2437MHz	Pass	PK	62.98M	36.83	40.00	-3.17	-25.58	3	Horizontal	0	3.00	-
2437MHz	Pass	PK	173.56M	40.45	43.50	-3.05	-20.92	3	Horizontal	0	3.00	-
2437MHz	Pass	PK	367.56M	32.70	46.00	-13.30	-15.04	3	Horizontal	0	3.00	-
2437MHz	Pass	PK	466.5M	32.20	46.00	-13.80	-12.60	3	Horizontal	0	3.00	-
2437MHz	Pass	PK	648.86M	34.60	46.00	-11.40	-9.94	3	Horizontal	0	3.00	-

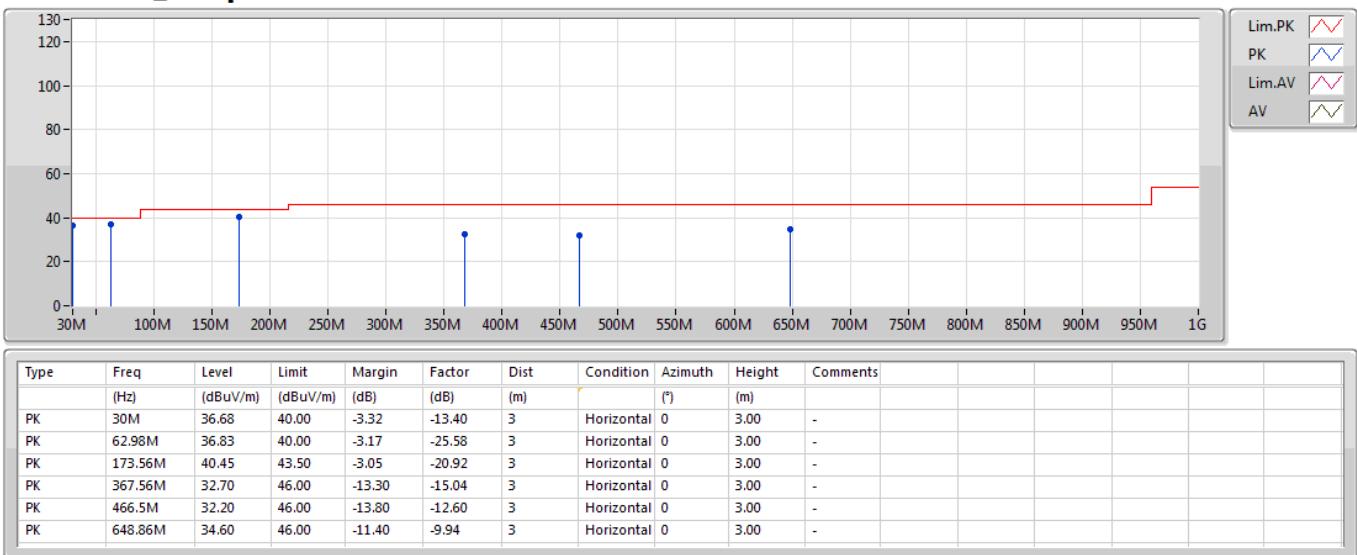
**802.11n HT20_Nss1,(MCS0)_2TX**

28/12/2018

2437MHz_Adapter

**802.11n HT20_Nss1,(MCS0)_2TX**

28/12/2018

2437MHz_Adapter

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX(Port1)	Pass	AV	2.39G	53.35	54.00	-0.65	30.77	3	Vertical	288	1.00	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.3876G	53.18	54.00	-0.82	31.11	3	Horizontal	116	1.01	-
802.11g_Nss1,(6Mbps)_1TX(Port1)	Pass	AV	2.39G	53.79	54.00	-0.21	30.77	3	Vertical	291	1.08	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.39G	53.84	54.00	-0.16	31.11	3	Horizontal	117	1.00	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.39G	53.73	54.00	-0.27	30.77	3	Horizontal	130	1.01	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3882G	52.54	54.00	-1.46	30.77	3	Vertical	299	1.16	-
2412MHz	Pass	AV	2.4112G	108.44	Inf	-Inf	30.85	3	Vertical	299	1.16	-
2412MHz	Pass	PK	2.3878G	59.83	74.00	-14.17	30.77	3	Vertical	299	1.16	-
2412MHz	Pass	PK	2.4128G	111.11	Inf	-Inf	30.86	3	Vertical	299	1.16	-
2412MHz	Pass	AV	2.3882G	51.53	54.00	-2.47	30.77	3	Horizontal	115	2.77	-
2412MHz	Pass	AV	2.4128G	108.62	Inf	-Inf	30.86	3	Horizontal	115	2.77	-
2412MHz	Pass	PK	2.3882G	59.56	74.00	-14.44	30.77	3	Horizontal	115	2.77	-
2412MHz	Pass	PK	2.4128G	111.29	Inf	-Inf	30.86	3	Horizontal	115	2.77	-
2412MHz	Pass	AV	4.824G	36.45	54.00	-17.55	2.13	3	Vertical	266	2.15	-
2412MHz	Pass	PK	4.824G	44.23	74.00	-29.77	2.13	3	Vertical	266	2.15	-
2412MHz	Pass	AV	4.82394G	39.40	54.00	-14.60	2.13	3	Horizontal	202	2.13	-
2412MHz	Pass	PK	4.82406G	44.48	74.00	-29.52	2.13	3	Horizontal	202	2.13	-
2417MHz	Pass	AV	2.39G	53.35	54.00	-0.65	30.77	3	Vertical	288	1.00	-
2417MHz	Pass	AV	2.4162G	109.89	Inf	-Inf	30.87	3	Vertical	288	1.00	-
2417MHz	Pass	PK	2.39G	59.98	74.00	-14.02	30.77	3	Vertical	288	1.00	-
2417MHz	Pass	PK	2.4162G	112.57	Inf	-Inf	30.87	3	Vertical	288	1.00	-
2417MHz	Pass	AV	2.39G	52.73	54.00	-1.27	30.77	3	Horizontal	125	1.02	-
2417MHz	Pass	AV	2.4162G	108.09	Inf	-Inf	30.87	3	Horizontal	125	1.02	-
2417MHz	Pass	PK	2.39G	59.09	74.00	-14.91	30.77	3	Horizontal	125	1.02	-
2417MHz	Pass	PK	2.4178G	110.64	Inf	-Inf	30.87	3	Horizontal	125	1.02	-
2437MHz	Pass	AV	2.3882G	47.81	54.00	-6.19	30.77	3	Vertical	292	1.00	-
2437MHz	Pass	AV	2.4362G	110.67	Inf	-Inf	30.94	3	Vertical	292	1.00	-
2437MHz	Pass	AV	2.4858G	53.06	54.00	-0.94	31.12	3	Vertical	292	1.00	-
2437MHz	Pass	PK	2.3878G	57.45	74.00	-16.55	30.77	3	Vertical	292	1.00	-
2437MHz	Pass	PK	2.4362G	112.90	Inf	-Inf	30.94	3	Vertical	292	1.00	-
2437MHz	Pass	PK	2.487G	61.00	74.00	-13.00	31.12	3	Vertical	292	1.00	-
2437MHz	Pass	AV	2.3898G	45.61	54.00	-8.39	30.77	3	Horizontal	134	1.14	-
2437MHz	Pass	AV	2.4362G	109.55	Inf	-Inf	30.94	3	Horizontal	134	1.14	-
2437MHz	Pass	AV	2.4858G	52.56	54.00	-1.44	31.12	3	Horizontal	134	1.14	-
2437MHz	Pass	PK	2.3882G	57.26	74.00	-16.74	30.77	3	Horizontal	134	1.14	-
2437MHz	Pass	PK	2.4362G	111.68	Inf	-Inf	30.94	3	Horizontal	134	1.14	-
2437MHz	Pass	PK	2.487G	60.42	74.00	-13.58	31.12	3	Horizontal	134	1.14	-
2437MHz	Pass	AV	4.874G	38.13	54.00	-15.87	2.25	3	Vertical	276	1.50	-
2437MHz	Pass	PK	4.87406G	44.68	74.00	-29.32	2.25	3	Vertical	276	1.50	-
2437MHz	Pass	AV	4.874G	39.53	54.00	-14.47	2.25	3	Horizontal	141	1.00	-
2437MHz	Pass	PK	4.87418G	45.81	74.00	-28.19	2.25	3	Horizontal	141	1.00	-
2437MHz	Pass	AV	2.4562G	107.97	Inf	-Inf	31.01	3	Vertical	286	1.11	-
2437MHz	Pass	AV	2.4852G	53.22	54.00	-0.78	31.12	3	Vertical	286	1.11	-
2437MHz	Pass	PK	2.4578G	110.51	Inf	-Inf	31.02	3	Vertical	286	1.11	-
2437MHz	Pass	PK	2.4852G	60.73	74.00	-13.27	31.12	3	Vertical	286	1.11	-
2437MHz	Pass	AV	2.4562G	107.00	Inf	-Inf	31.01	3	Horizontal	116	1.27	-
2437MHz	Pass	AV	2.4838G	52.07	54.00	-1.93	31.11	3	Horizontal	116	1.27	-
2437MHz	Pass	PK	2.456G	109.50	Inf	-Inf	31.01	3	Horizontal	116	1.27	-
2437MHz	Pass	PK	2.4842G	60.27	74.00	-13.73	31.12	3	Horizontal	116	1.27	-
2462MHz	Pass	AV	2.4612G	106.33	Inf	-Inf	31.03	3	Vertical	291	1.09	-
2462MHz	Pass	AV	2.4835G	52.32	54.00	-1.68	31.11	3	Vertical	291	1.09	-
2462MHz	Pass	PK	2.4628G	108.95	Inf	-Inf	31.04	3	Vertical	291	1.09	-



RSE TX above 1GHz

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	2.4846G	60.01	74.00	-13.99	31.12	3	Vertical	291	1.09	-
2462MHz	Pass	AV	2.4628G	106.15	Inf	-Inf	31.04	3	Horizontal	132	1.09	-
2462MHz	Pass	AV	2.4835G	52.26	54.00	-1.74	31.11	3	Horizontal	132	1.09	-
2462MHz	Pass	PK	2.4628G	108.82	Inf	-Inf	31.04	3	Horizontal	132	1.09	-
2462MHz	Pass	PK	2.486G	60.41	74.00	-13.59	31.12	3	Horizontal	132	1.09	-
2462MHz	Pass	AV	4.924G	37.43	54.00	-16.57	2.38	3	Vertical	170	2.73	-
2462MHz	Pass	PK	4.92376G	44.98	74.00	-29.02	2.38	3	Vertical	170	2.73	-
2462MHz	Pass	AV	4.924G	35.32	54.00	-18.68	2.38	3	Horizontal	149	2.20	-
2462MHz	Pass	PK	4.92382G	44.79	74.00	-29.21	2.38	3	Horizontal	149	2.20	-
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3882G	51.20	54.00	-2.80	31.11	3	Vertical	70	2.26	-
2412MHz	Pass	AV	2.4112G	105.94	Inf	-Inf	31.20	3	Vertical	70	2.26	-
2412MHz	Pass	PK	2.3876G	59.32	74.00	-14.68	31.11	3	Vertical	70	2.26	-
2412MHz	Pass	PK	2.411G	108.08	Inf	-Inf	31.20	3	Vertical	70	2.26	-
2412MHz	Pass	AV	2.3876G	53.18	54.00	-0.82	31.11	3	Horizontal	116	1.01	-
2412MHz	Pass	AV	2.4128G	111.89	Inf	-Inf	31.21	3	Horizontal	116	1.01	-
2412MHz	Pass	PK	2.3898G	64.95	74.00	-9.05	31.11	3	Horizontal	116	1.01	-
2412MHz	Pass	PK	2.4128G	114.73	Inf	-Inf	31.21	3	Horizontal	116	1.01	-
2412MHz	Pass	AV	4.824G	44.93	54.00	-9.07	3.46	3	Vertical	90	1.50	-
2412MHz	Pass	PK	4.82382G	50.35	74.00	-23.65	3.46	3	Vertical	90	1.50	-
2412MHz	Pass	AV	4.824G	48.73	54.00	-5.27	3.46	3	Horizontal	151	2.94	-
2412MHz	Pass	PK	4.82404G	52.29	74.00	-21.71	3.46	3	Horizontal	151	2.94	-
2417MHz	Pass	AV	2.3882G	51.65	54.00	-2.35	31.11	3	Vertical	103	2.80	-
2417MHz	Pass	AV	2.4162G	110.27	Inf	-Inf	31.23	3	Vertical	103	2.80	-
2417MHz	Pass	PK	2.3898G	62.59	74.00	-11.41	31.11	3	Vertical	103	2.80	-
2417MHz	Pass	PK	2.4178G	112.64	Inf	-Inf	31.23	3	Vertical	103	2.80	-
2417MHz	Pass	AV	2.39G	52.86	54.00	-1.14	31.11	3	Horizontal	115	1.01	-
2417MHz	Pass	AV	2.4178G	112.09	Inf	-Inf	31.23	3	Horizontal	115	1.01	-
2417MHz	Pass	PK	2.3898G	64.49	74.00	-9.51	31.11	3	Horizontal	115	1.01	-
2417MHz	Pass	PK	2.4178G	114.92	Inf	-Inf	31.23	3	Horizontal	115	1.01	-
2437MHz	Pass	AV	2.3882G	49.85	54.00	-4.15	31.11	3	Vertical	102	2.78	-
2437MHz	Pass	AV	2.4362G	111.42	Inf	-Inf	31.31	3	Vertical	102	2.78	-
2437MHz	Pass	AV	2.4835G	49.68	54.00	-4.32	31.51	3	Vertical	102	2.78	-
2437MHz	Pass	PK	2.3878G	59.00	74.00	-15.00	31.11	3	Vertical	102	2.78	-
2437MHz	Pass	PK	2.4362G	113.77	Inf	-Inf	31.31	3	Vertical	102	2.78	-
2437MHz	Pass	PK	2.4835G	59.60	74.00	-14.40	31.51	3	Vertical	102	2.78	-
2437MHz	Pass	AV	2.3882G	50.72	54.00	-3.28	31.11	3	Horizontal	113	1.20	-
2437MHz	Pass	AV	2.4378G	112.37	Inf	-Inf	31.32	3	Horizontal	113	1.20	-
2437MHz	Pass	AV	2.4835G	52.39	54.00	-1.61	31.51	3	Horizontal	113	1.20	-
2437MHz	Pass	PK	2.3882G	58.67	74.00	-15.33	31.11	3	Horizontal	113	1.20	-
2437MHz	Pass	PK	2.4378G	115.27	Inf	-Inf	31.32	3	Horizontal	113	1.20	-
2437MHz	Pass	PK	2.4842G	60.80	74.00	-13.20	31.52	3	Horizontal	113	1.20	-
2437MHz	Pass	AV	4.87397G	45.93	54.00	-8.07	3.58	3	Vertical	142	1.02	-
2437MHz	Pass	PK	4.87396G	50.85	74.00	-23.15	3.58	3	Vertical	142	1.02	-
2437MHz	Pass	AV	4.874G	34.81	54.00	-19.19	3.58	3	Horizontal	149	1.50	-
2437MHz	Pass	PK	4.87385G	45.11	74.00	-28.89	3.58	3	Horizontal	149	1.50	-
2457MHz	Pass	AV	2.4562G	109.91	Inf	-Inf	31.40	3	Vertical	106	2.43	-
2457MHz	Pass	AV	2.4838G	51.20	54.00	-2.80	31.51	3	Vertical	106	2.43	-
2457MHz	Pass	PK	2.4562G	112.28	Inf	-Inf	31.40	3	Vertical	106	2.43	-

**RSE TX above 1GHz****Appendix F.2**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2457MHz	Pass	PK	2.4836G	65.88	74.00	-8.12	31.51	3	Vertical	106	2.43	-
2457MHz	Pass	AV	2.4578G	112.27	Inf	-Inf	31.40	3	Horizontal	118	1.00	-
2457MHz	Pass	AV	2.4838G	51.46	54.00	-2.54	31.51	3	Horizontal	118	1.00	-
2457MHz	Pass	PK	2.4578G	114.98	Inf	-Inf	31.40	3	Horizontal	118	1.00	-
2457MHz	Pass	PK	2.4835G	67.81	74.00	-6.19	31.51	3	Horizontal	118	1.00	-
2462MHz	Pass	AV	2.4612G	109.16	Inf	-Inf	31.41	3	Vertical	95	2.43	-
2462MHz	Pass	AV	2.4848G	49.47	54.00	-4.53	31.52	3	Vertical	95	2.43	-
2462MHz	Pass	PK	2.4628G	111.38	Inf	-Inf	31.43	3	Vertical	95	2.43	-
2462MHz	Pass	PK	2.4835G	60.25	74.00	-13.75	31.51	3	Vertical	95	2.43	-
2462MHz	Pass	AV	2.4628G	111.62	Inf	-Inf	31.43	3	Horizontal	116	1.00	-
2462MHz	Pass	AV	2.4848G	52.35	54.00	-1.65	31.52	3	Horizontal	116	1.00	-
2462MHz	Pass	PK	2.4628G	114.05	Inf	-Inf	31.43	3	Horizontal	116	1.00	-
2462MHz	Pass	PK	2.4844G	61.90	74.00	-12.10	31.52	3	Horizontal	116	1.00	-
2462MHz	Pass	AV	4.92396G	39.28	54.00	-14.72	3.71	3	Vertical	284	1.31	-
2462MHz	Pass	PK	4.92391G	48.05	74.00	-25.95	3.71	3	Vertical	284	1.31	-
2462MHz	Pass	AV	4.92397G	40.06	54.00	-13.94	3.71	3	Horizontal	214	2.18	-
2462MHz	Pass	PK	4.92399G	48.38	74.00	-25.62	3.71	3	Horizontal	214	2.18	-
802.11g_Nss1,(6Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	53.79	54.00	-0.21	30.77	3	Vertical	291	1.08	-
2412MHz	Pass	AV	2.4112G	100.24	Inf	-Inf	30.85	3	Vertical	291	1.08	-
2412MHz	Pass	PK	2.3894G	66.52	74.00	-7.48	30.77	3	Vertical	291	1.08	-
2412MHz	Pass	PK	2.4114G	109.60	Inf	-Inf	30.85	3	Vertical	291	1.08	-
2412MHz	Pass	AV	2.39G	51.56	54.00	-2.44	30.77	3	Horizontal	131	1.01	-
2412MHz	Pass	AV	2.4112G	98.14	Inf	-Inf	30.85	3	Horizontal	131	1.01	-
2412MHz	Pass	PK	2.3894G	65.48	74.00	-8.52	30.77	3	Horizontal	131	1.01	-
2412MHz	Pass	PK	2.411G	108.51	Inf	-Inf	30.85	3	Horizontal	131	1.01	-
2412MHz	Pass	PK	4.80996G	43.40	74.00	-30.60	2.10	3	Vertical	232	1.06	-
2412MHz	Pass	AV	4.81008G	30.23	54.00	-23.77	2.10	3	Vertical	232	1.06	-
2412MHz	Pass	AV	4.83144G	30.33	54.00	-23.67	2.15	3	Horizontal	71	1.50	-
2412MHz	Pass	PK	4.81098G	42.55	74.00	-31.45	2.10	3	Horizontal	71	1.50	-
2417MHz	Pass	AV	2.39G	53.10	54.00	-0.90	30.77	3	Vertical	278	1.01	-
2417MHz	Pass	AV	2.416G	103.79	Inf	-Inf	30.86	3	Vertical	278	1.01	-
2417MHz	Pass	PK	2.3894G	64.52	74.00	-9.48	30.77	3	Vertical	278	1.01	-
2417MHz	Pass	PK	2.4204G	113.23	Inf	-Inf	30.89	3	Vertical	278	1.01	-
2417MHz	Pass	AV	2.39G	49.87	54.00	-4.13	30.77	3	Horizontal	103	2.77	-
2417MHz	Pass	AV	2.418G	101.78	Inf	-Inf	30.87	3	Horizontal	103	2.77	-
2417MHz	Pass	PK	2.39G	61.23	74.00	-12.77	30.77	3	Horizontal	103	2.77	-
2417MHz	Pass	PK	2.4188G	110.95	Inf	-Inf	30.88	3	Horizontal	103	2.77	-
2437MHz	Pass	AV	2.3898G	49.12	54.00	-4.88	30.77	3	Vertical	289	1.00	-
2437MHz	Pass	AV	2.4362G	105.24	Inf	-Inf	30.94	3	Vertical	289	1.00	-
2437MHz	Pass	AV	2.4842G	52.49	54.00	-1.51	31.12	3	Vertical	289	1.00	-
2437MHz	Pass	PK	2.3898G	61.09	74.00	-12.91	30.77	3	Vertical	289	1.00	-
2437MHz	Pass	PK	2.4354G	115.24	Inf	-Inf	30.94	3	Vertical	289	1.00	-
2437MHz	Pass	PK	2.4846G	66.89	74.00	-7.11	31.12	3	Vertical	289	1.00	-
2437MHz	Pass	AV	2.3898G	47.67	54.00	-6.33	30.77	3	Horizontal	120	2.47	-
2437MHz	Pass	AV	2.4358G	104.76	Inf	-Inf	30.94	3	Horizontal	120	2.47	-
2437MHz	Pass	AV	2.4835G	50.03	54.00	-3.97	31.11	3	Horizontal	120	2.47	-
2437MHz	Pass	PK	2.3898G	59.61	74.00	-14.39	30.77	3	Horizontal	120	2.47	-
2437MHz	Pass	PK	2.4358G	114.23	Inf	-Inf	30.94	3	Horizontal	120	2.47	-

**RSE TX above 1GHz****Appendix F.2**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.4835G	64.24	74.00	-9.76	31.11	3	Horizontal	120	2.47	-
2437MHz	Pass	AV	4.87952G	30.53	54.00	-23.47	2.27	3	Vertical	269	1.08	-
2437MHz	Pass	PK	4.87964G	43.71	74.00	-30.29	2.27	3	Vertical	269	1.08	-
2437MHz	Pass	AV	4.88606G	30.32	54.00	-23.68	2.29	3	Horizontal	295	1.35	-
2437MHz	Pass	PK	4.86188G	43.25	74.00	-30.75	2.23	3	Horizontal	295	1.35	-
2457MHz	Pass	AV	2.456G	101.78	Inf	-Inf	31.01	3	Vertical	280	1.12	-
2457MHz	Pass	AV	2.4835G	53.76	54.00	-0.24	31.11	3	Vertical	280	1.12	-
2457MHz	Pass	PK	2.455G	111.77	Inf	-Inf	31.00	3	Vertical	280	1.12	-
2457MHz	Pass	PK	2.4836G	65.92	74.00	-8.08	31.11	3	Vertical	280	1.12	-
2457MHz	Pass	AV	2.4564G	99.38	Inf	-Inf	31.02	3	Horizontal	122	1.00	-
2457MHz	Pass	AV	2.4835G	51.22	54.00	-2.78	31.11	3	Horizontal	122	1.00	-
2457MHz	Pass	PK	2.4562G	109.69	Inf	-Inf	31.01	3	Horizontal	122	1.00	-
2457MHz	Pass	PK	2.4862G	63.99	74.00	-10.01	31.12	3	Horizontal	122	1.00	-
2462MHz	Pass	AV	2.4632G	98.58	Inf	-Inf	31.04	3	Vertical	290	1.10	-
2462MHz	Pass	AV	2.4835G	53.79	54.00	-0.21	31.11	3	Vertical	290	1.10	-
2462MHz	Pass	PK	2.4612G	108.44	Inf	-Inf	31.03	3	Vertical	290	1.10	-
2462MHz	Pass	PK	2.4835G	66.22	74.00	-7.78	31.11	3	Vertical	290	1.10	-
2462MHz	Pass	AV	2.463G	97.81	Inf	-Inf	31.04	3	Horizontal	127	1.03	-
2462MHz	Pass	AV	2.4835G	53.03	54.00	-0.97	31.11	3	Horizontal	127	1.03	-
2462MHz	Pass	PK	2.462G	107.23	Inf	-Inf	31.03	3	Horizontal	127	1.03	-
2462MHz	Pass	PK	2.4836G	65.84	74.00	-8.16	31.11	3	Horizontal	127	1.03	-
2462MHz	Pass	AV	4.92814G	30.38	54.00	-23.62	2.40	3	Vertical	205	1.37	-
2462MHz	Pass	PK	4.91308G	42.82	74.00	-31.18	2.35	3	Vertical	205	1.37	-
2462MHz	Pass	AV	4.9333G	30.41	54.00	-23.59	2.40	3	Horizontal	121	1.62	-
2462MHz	Pass	PK	4.91668G	42.61	74.00	-31.39	2.36	3	Horizontal	121	1.62	-
802.11g_Nss1(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	50.83	54.00	-3.17	31.11	3	Vertical	254	1.45	-
2412MHz	Pass	AV	2.4126G	102.64	Inf	-Inf	31.21	3	Vertical	254	1.45	-
2412MHz	Pass	PK	2.3892G	67.26	74.00	-6.74	31.11	3	Vertical	254	1.45	-
2412MHz	Pass	PK	2.417G	111.82	Inf	-Inf	31.23	3	Vertical	254	1.45	-
2412MHz	Pass	AV	2.39G	53.84	54.00	-0.16	31.11	3	Horizontal	117	1.00	-
2412MHz	Pass	AV	2.415G	103.71	Inf	-Inf	31.22	3	Horizontal	117	1.00	-
2412MHz	Pass	PK	2.39G	67.53	74.00	-6.47	31.11	3	Horizontal	117	1.00	-
2412MHz	Pass	PK	2.4154G	113.04	Inf	-Inf	31.22	3	Horizontal	117	1.00	-
2412MHz	Pass	AV	4.82267G	32.72	54.00	-21.28	3.46	3	Vertical	276	1.49	-
2412MHz	Pass	PK	4.82253G	45.55	74.00	-28.45	3.46	3	Vertical	276	1.49	-
2412MHz	Pass	AV	4.82173G	32.14	54.00	-21.86	3.44	3	Horizontal	360	1.50	-
2412MHz	Pass	PK	4.82332G	45.10	74.00	-28.90	3.46	3	Horizontal	360	1.50	-
2417MHz	Pass	AV	2.39G	49.81	54.00	-4.19	31.11	3	Vertical	249	1.25	-
2417MHz	Pass	AV	2.4174G	103.52	Inf	-Inf	31.23	3	Vertical	249	1.25	-
2417MHz	Pass	PK	2.3898G	65.88	74.00	-8.12	31.11	3	Vertical	249	1.25	-
2417MHz	Pass	PK	2.4224G	113.04	Inf	-Inf	31.25	3	Vertical	249	1.25	-
2417MHz	Pass	AV	2.3898G	53.17	54.00	-0.83	31.11	3	Horizontal	119	1.12	-
2417MHz	Pass	AV	2.4202G	104.93	Inf	-Inf	31.24	3	Horizontal	119	1.12	-
2417MHz	Pass	PK	2.39G	65.64	74.00	-8.36	31.11	3	Horizontal	119	1.12	-
2417MHz	Pass	PK	2.4198G	113.99	Inf	-Inf	31.24	3	Horizontal	119	1.12	-
2437MHz	Pass	AV	2.3898G	48.96	54.00	-5.04	31.11	3	Vertical	253	1.43	-
2437MHz	Pass	AV	2.4374G	106.42	Inf	-Inf	31.31	3	Vertical	253	1.43	-
2437MHz	Pass	AV	2.4854G	50.95	54.00	-3.05	31.52	3	Vertical	253	1.43	-



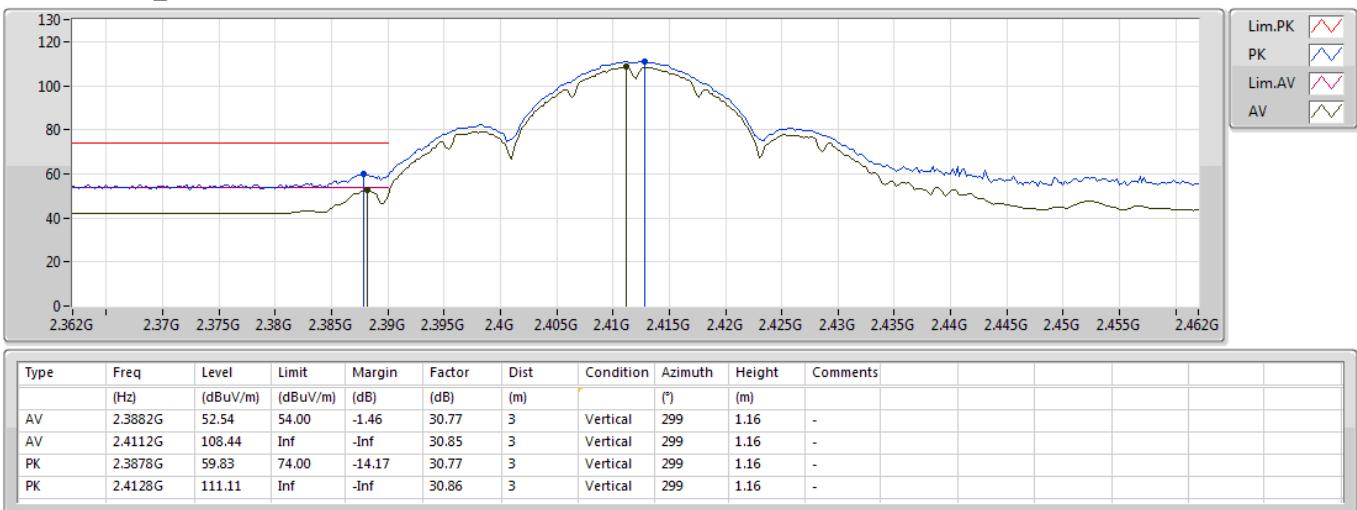
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.3898G	63.21	74.00	-10.79	31.11	3	Vertical	253	1.43	-
2437MHz	Pass	PK	2.4378G	115.71	Inf	-Inf	31.32	3	Vertical	253	1.43	-
2437MHz	Pass	PK	2.4842G	65.05	74.00	-8.95	31.52	3	Vertical	253	1.43	-
2437MHz	Pass	AV	2.3894G	48.49	54.00	-5.51	31.11	3	Horizontal	114	1.35	-
2437MHz	Pass	AV	2.4358G	107.79	Inf	-Inf	31.31	3	Horizontal	114	1.35	-
2437MHz	Pass	AV	2.4835G	53.78	54.00	-0.22	31.51	3	Horizontal	114	1.35	-
2437MHz	Pass	PK	2.3886G	63.22	74.00	-10.78	31.11	3	Horizontal	114	1.35	-
2437MHz	Pass	PK	2.4358G	117.17	Inf	-Inf	31.31	3	Horizontal	114	1.35	-
2437MHz	Pass	PK	2.4842G	67.15	74.00	-6.85	31.52	3	Horizontal	114	1.35	-
2437MHz	Pass	AV	4.87158G	33.44	54.00	-20.56	3.57	3	Vertical	186	1.68	-
2437MHz	Pass	PK	4.87208G	46.16	74.00	-27.84	3.58	3	Vertical	186	1.68	-
2437MHz	Pass	AV	4.87443G	34.33	54.00	-19.67	3.58	3	Horizontal	238	1.02	-
2437MHz	Pass	PK	4.87567G	47.72	74.00	-26.28	3.59	3	Horizontal	238	1.02	-
2457MHz	Pass	AV	2.4576G	102.47	Inf	-Inf	31.40	3	Vertical	251	1.49	-
2457MHz	Pass	AV	2.4858G	49.40	54.00	-4.60	31.52	3	Vertical	251	1.49	-
2457MHz	Pass	PK	2.4576G	111.48	Inf	-Inf	31.40	3	Vertical	251	1.49	-
2457MHz	Pass	PK	2.4854G	65.83	74.00	-8.17	31.52	3	Vertical	251	1.49	-
2457MHz	Pass	AV	2.46G	104.04	Inf	-Inf	31.41	3	Horizontal	118	1.01	-
2457MHz	Pass	AV	2.484G	52.43	54.00	-1.57	31.52	3	Horizontal	118	1.01	-
2457MHz	Pass	PK	2.4562G	113.52	Inf	-Inf	31.40	3	Horizontal	118	1.01	-
2457MHz	Pass	PK	2.4838G	65.94	74.00	-8.06	31.51	3	Horizontal	118	1.01	-
2462MHz	Pass	AV	2.4626G	102.66	Inf	-Inf	31.43	3	Vertical	250	1.11	-
2462MHz	Pass	AV	2.4835G	51.56	54.00	-2.44	31.51	3	Vertical	250	1.11	-
2462MHz	Pass	PK	2.4626G	112.34	Inf	-Inf	31.43	3	Vertical	250	1.11	-
2462MHz	Pass	PK	2.4854G	66.97	74.00	-7.03	31.52	3	Vertical	250	1.11	-
2462MHz	Pass	AV	2.4602G	104.09	Inf	-Inf	31.41	3	Horizontal	119	1.01	-
2462MHz	Pass	AV	2.4835G	53.27	54.00	-0.73	31.51	3	Horizontal	119	1.01	-
2462MHz	Pass	PK	2.46G	114.12	Inf	-Inf	31.41	3	Horizontal	119	1.01	-
2462MHz	Pass	PK	2.4835G	66.37	74.00	-7.63	31.51	3	Horizontal	119	1.01	-
2462MHz	Pass	AV	4.92531G	32.28	54.00	-21.72	3.72	3	Vertical	193	1.04	-
2462MHz	Pass	PK	4.9225G	45.43	74.00	-28.57	3.71	3	Vertical	193	1.04	-
2462MHz	Pass	AV	4.92582G	31.91	54.00	-22.09	3.72	3	Horizontal	153	1.06	-
2462MHz	Pass	PK	4.92443G	44.63	74.00	-29.37	3.71	3	Horizontal	153	1.06	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3896G	50.48	54.00	-3.52	30.77	3	Vertical	91	1.05	-
2412MHz	Pass	AV	2.4046G	100.26	Inf	-Inf	30.82	3	Vertical	91	1.05	-
2412MHz	Pass	PK	2.3898G	64.03	74.00	-9.97	30.77	3	Vertical	91	1.05	-
2412MHz	Pass	PK	2.4096G	110.66	Inf	-Inf	30.85	3	Vertical	91	1.05	-
2412MHz	Pass	AV	2.39G	53.73	54.00	-0.27	30.77	3	Horizontal	130	1.01	-
2412MHz	Pass	AV	2.4108G	103.63	Inf	-Inf	30.85	3	Horizontal	130	1.01	-
2412MHz	Pass	PK	2.3898G	66.85	74.00	-7.15	30.77	3	Horizontal	130	1.01	-
2412MHz	Pass	PK	2.4138G	113.21	Inf	-Inf	30.86	3	Horizontal	130	1.01	-
2412MHz	Pass	AV	4.8297G	30.13	54.00	-23.87	2.15	3	Vertical	265	1.50	-
2412MHz	Pass	PK	4.81236G	42.56	74.00	-31.44	2.10	3	Vertical	265	1.50	-
2412MHz	Pass	AV	4.83594G	30.11	54.00	-23.89	2.16	3	Horizontal	45	1.10	-
2412MHz	Pass	PK	4.83138G	42.71	74.00	-31.29	2.15	3	Horizontal	45	1.10	-
2417MHz	Pass	AV	2.39G	50.69	54.00	-3.31	30.77	3	Vertical	280	1.39	-
2417MHz	Pass	AV	2.4094G	101.66	Inf	-Inf	30.85	3	Vertical	280	1.39	-
2417MHz	Pass	PK	2.3888G	62.15	74.00	-11.85	30.77	3	Vertical	280	1.39	-

**RSE TX above 1GHz****Appendix F.2**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2417MHz	Pass	PK	2.4146G	112.08	Inf	-Inf	30.86	3	Vertical	280	1.39	-
2417MHz	Pass	AV	2.39G	52.83	54.00	-1.17	30.77	3	Horizontal	126	1.00	-
2417MHz	Pass	AV	2.4178G	104.47	Inf	-Inf	30.87	3	Horizontal	126	1.00	-
2417MHz	Pass	PK	2.39G	64.62	74.00	-9.38	30.77	3	Horizontal	126	1.00	-
2417MHz	Pass	PK	2.4188G	113.93	Inf	-Inf	30.88	3	Horizontal	126	1.00	-
2437MHz	Pass	AV	2.3898G	49.72	54.00	-4.28	30.77	3	Vertical	295	1.42	-
2437MHz	Pass	AV	2.4382G	105.43	Inf	-Inf	30.95	3	Vertical	295	1.42	-
2437MHz	Pass	AV	2.485G	51.97	54.00	-2.03	31.12	3	Vertical	295	1.42	-
2437MHz	Pass	PK	2.3898G	61.95	74.00	-12.05	30.77	3	Vertical	295	1.42	-
2437MHz	Pass	PK	2.4382G	114.99	Inf	-Inf	30.95	3	Vertical	295	1.42	-
2437MHz	Pass	PK	2.4862G	64.26	74.00	-9.74	31.12	3	Vertical	295	1.42	-
2437MHz	Pass	AV	2.3898G	49.49	54.00	-4.51	30.77	3	Horizontal	137	1.16	-
2437MHz	Pass	AV	2.4294G	105.73	Inf	-Inf	30.91	3	Horizontal	137	1.16	-
2437MHz	Pass	AV	2.4835G	53.12	54.00	-0.88	31.11	3	Horizontal	137	1.16	-
2437MHz	Pass	PK	2.3898G	60.91	74.00	-13.09	30.77	3	Horizontal	137	1.16	-
2437MHz	Pass	PK	2.4346G	116.43	Inf	-Inf	30.94	3	Horizontal	137	1.16	-
2437MHz	Pass	PK	2.4842G	64.74	74.00	-9.26	31.12	3	Horizontal	137	1.16	-
2437MHz	Pass	AV	4.8773G	32.14	54.00	-21.86	2.26	3	Vertical	261	2.94	-
2437MHz	Pass	PK	4.88042G	44.17	74.00	-29.83	2.27	3	Vertical	261	2.94	-
2437MHz	Pass	AV	4.86914G	32.52	54.00	-21.48	2.24	3	Horizontal	229	2.08	-
2437MHz	Pass	PK	4.86782G	45.91	74.00	-28.09	2.24	3	Horizontal	229	2.08	-
2457MHz	Pass	AV	2.4542G	101.23	Inf	-Inf	31.00	3	Vertical	259	1.01	-
2457MHz	Pass	AV	2.4846G	52.76	54.00	-1.24	31.12	3	Vertical	259	1.01	-
2457MHz	Pass	PK	2.4558G	111.25	Inf	-Inf	31.01	3	Vertical	259	1.01	-
2457MHz	Pass	PK	2.4842G	65.32	74.00	-8.68	31.12	3	Vertical	259	1.01	-
2457MHz	Pass	AV	2.4582G	104.00	Inf	-Inf	31.02	3	Horizontal	124	1.00	-
2457MHz	Pass	AV	2.4835G	51.04	54.00	-2.96	31.11	3	Horizontal	124	1.00	-
2457MHz	Pass	PK	2.4604G	113.52	Inf	-Inf	31.03	3	Horizontal	124	1.00	-
2457MHz	Pass	PK	2.4835G	67.31	74.00	-6.69	31.11	3	Horizontal	124	1.00	-
2462MHz	Pass	AV	2.4546G	97.55	Inf	-Inf	31.00	3	Vertical	115	1.18	-
2462MHz	Pass	AV	2.4835G	49.84	54.00	-4.16	31.11	3	Vertical	115	1.18	-
2462MHz	Pass	PK	2.4594G	107.63	Inf	-Inf	31.03	3	Vertical	115	1.18	-
2462MHz	Pass	PK	2.484G	63.25	74.00	-10.75	31.12	3	Vertical	115	1.18	-
2462MHz	Pass	AV	2.4632G	101.58	Inf	-Inf	31.04	3	Horizontal	133	1.11	-
2462MHz	Pass	AV	2.4836G	53.30	54.00	-0.70	31.11	3	Horizontal	133	1.11	-
2462MHz	Pass	PK	2.4634G	110.80	Inf	-Inf	31.04	3	Horizontal	133	1.11	-
2462MHz	Pass	PK	2.4852G	67.00	74.00	-7.00	31.12	3	Horizontal	133	1.11	-
2462MHz	Pass	AV	4.93078G	30.52	54.00	-23.48	2.40	3	Vertical	280	1.50	-
2462MHz	Pass	PK	4.93078G	43.86	74.00	-30.14	2.40	3	Vertical	280	1.50	-
2462MHz	Pass	AV	4.9294G	32.43	54.00	-21.57	2.40	3	Horizontal	136	2.14	-
2462MHz	Pass	PK	4.93618G	45.13	74.00	-28.87	2.42	3	Horizontal	136	2.14	-

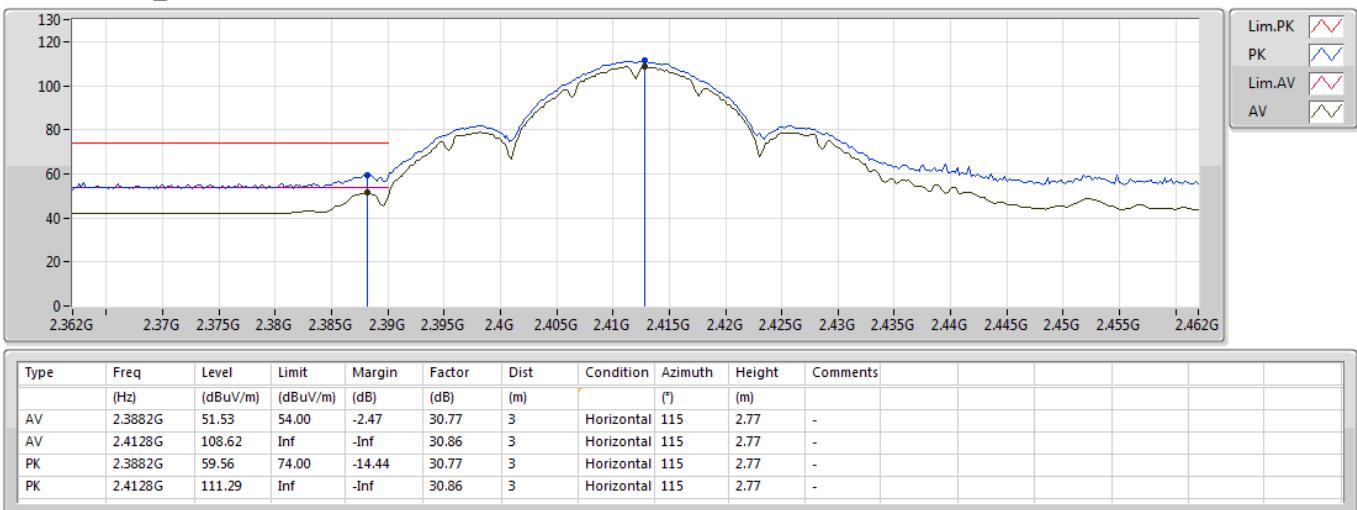
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26/12/2018

2412MHz_TX


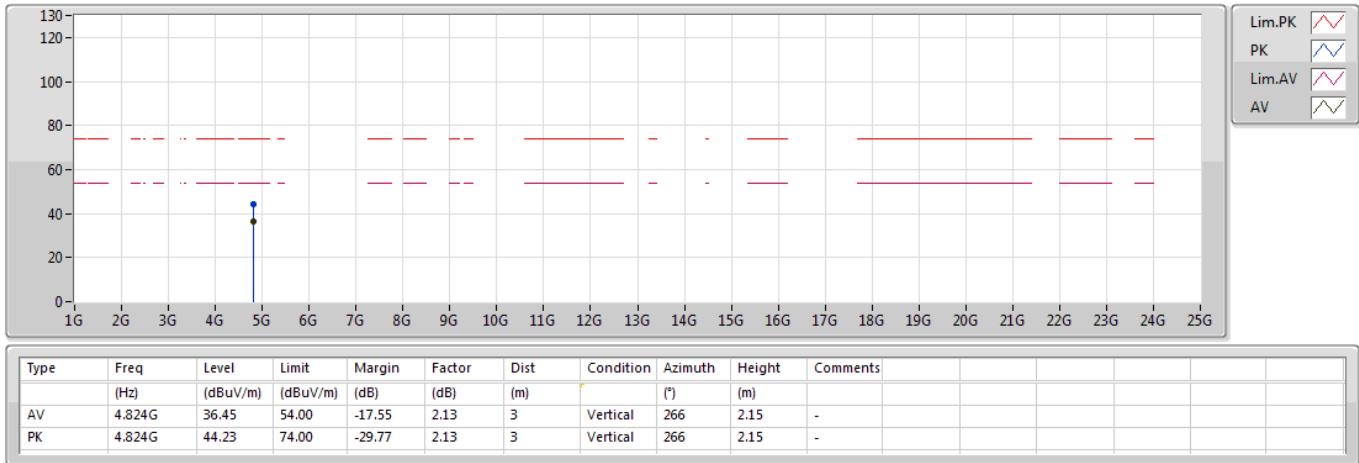
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26/12/2018

2412MHz_TX


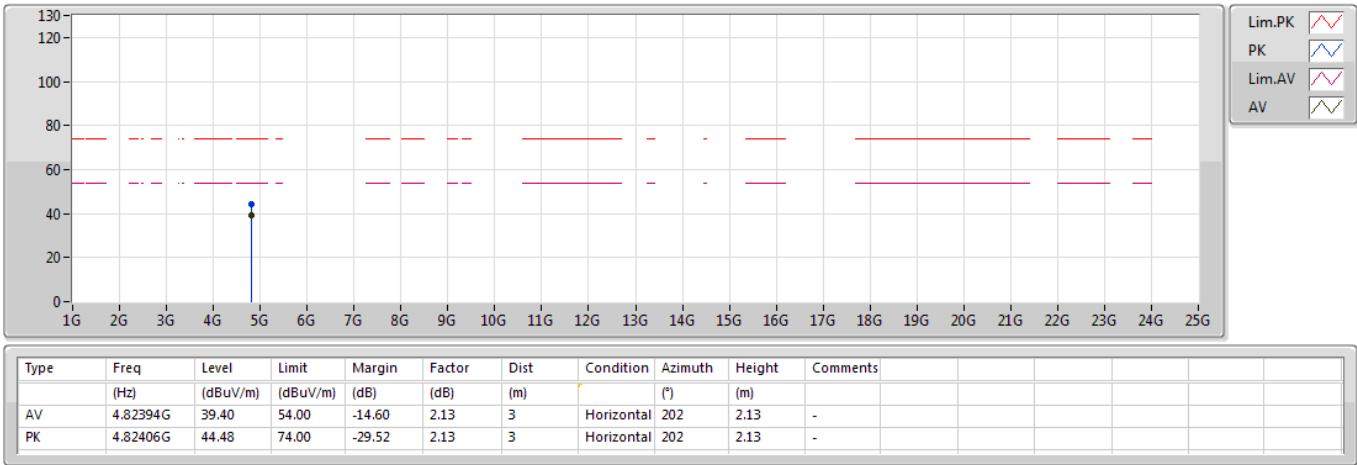
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26/12/2018

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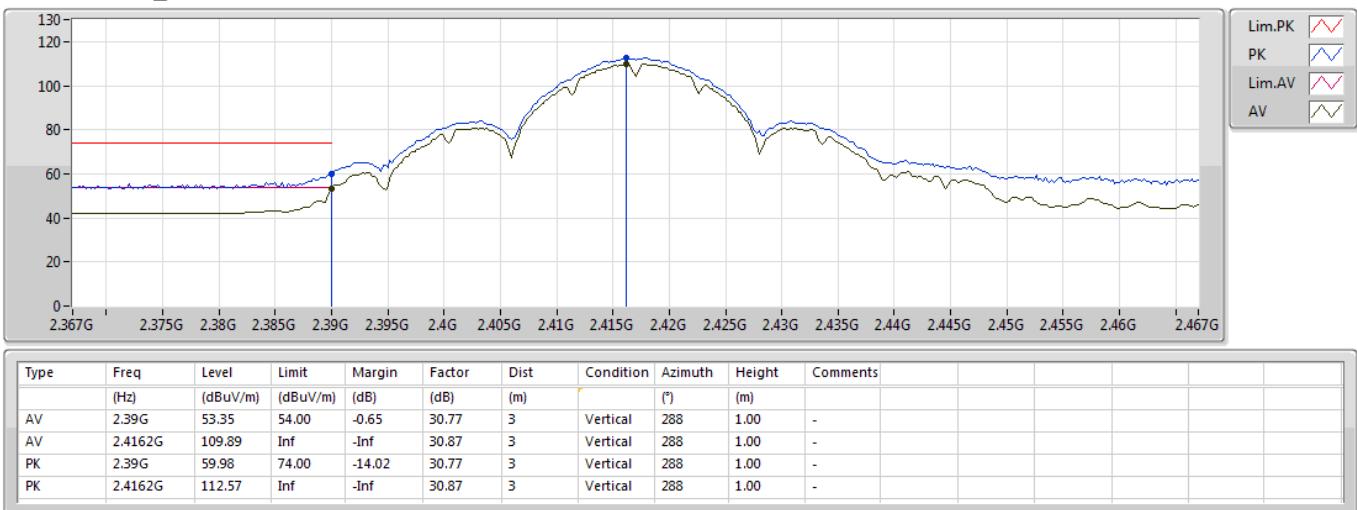
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26/12/2018

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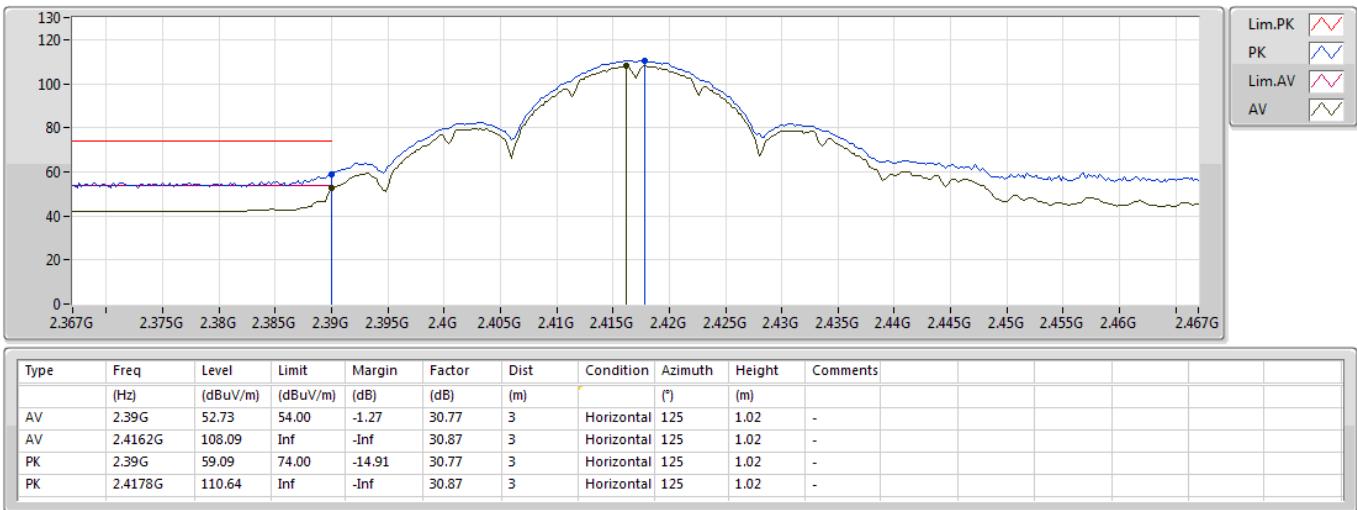
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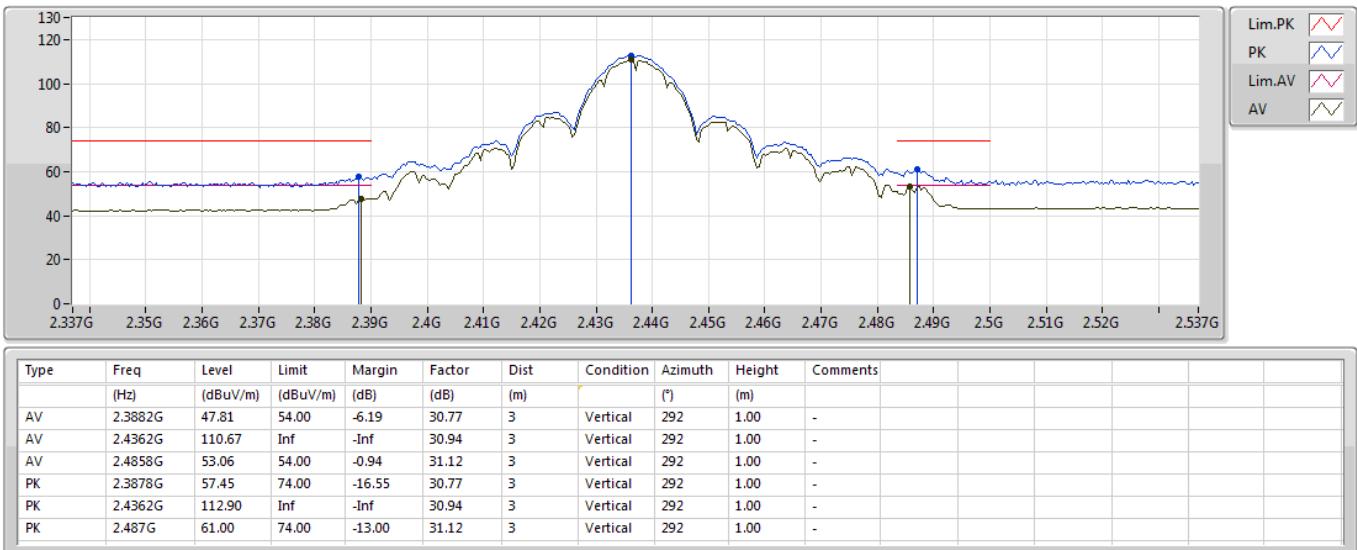
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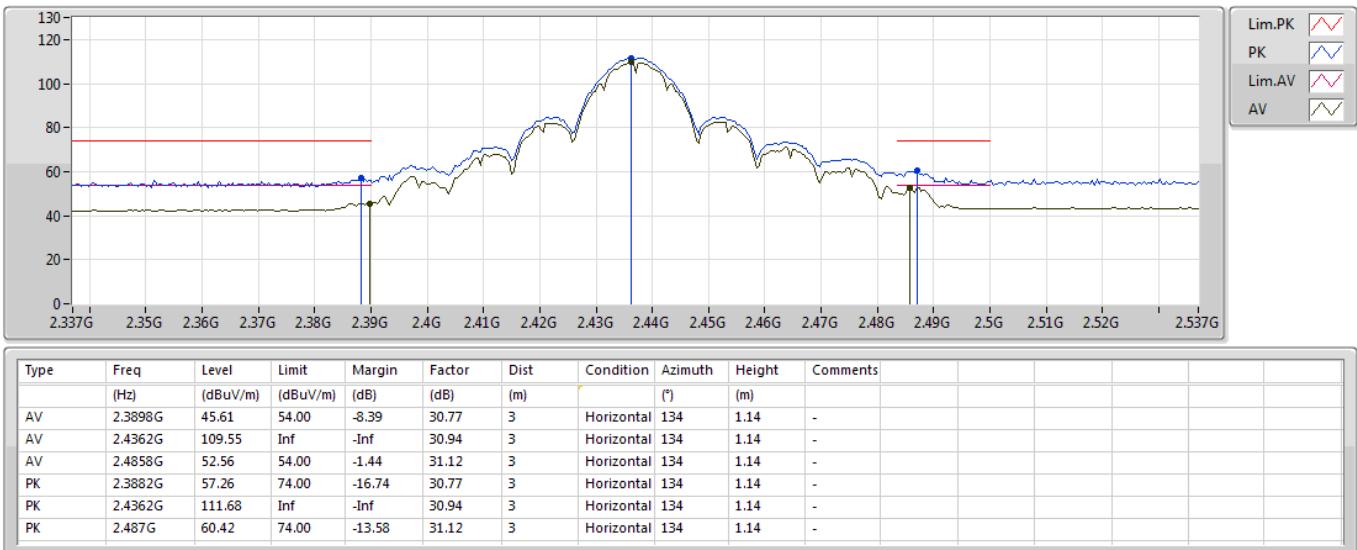
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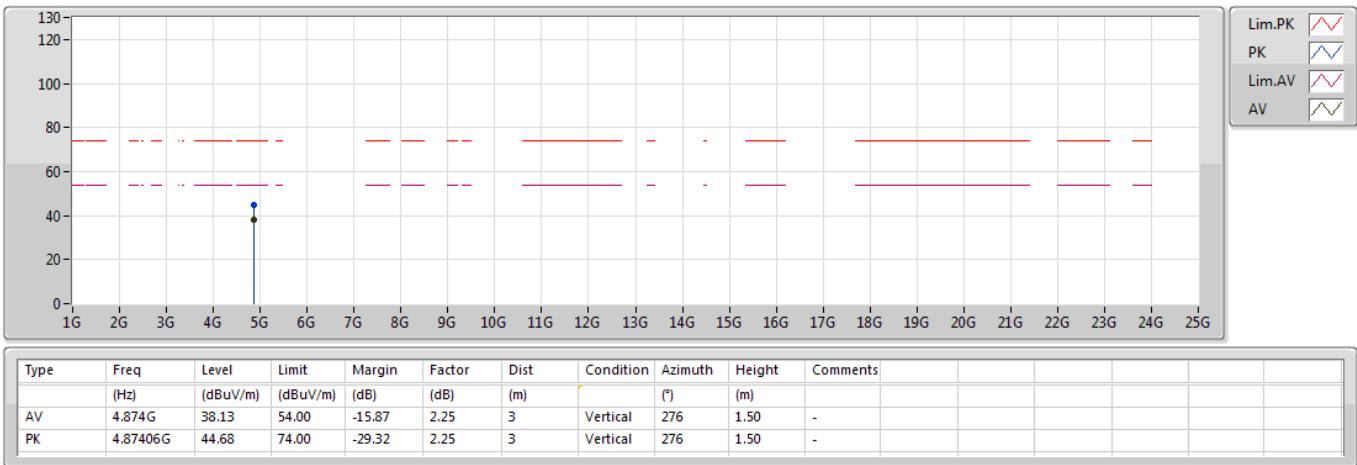
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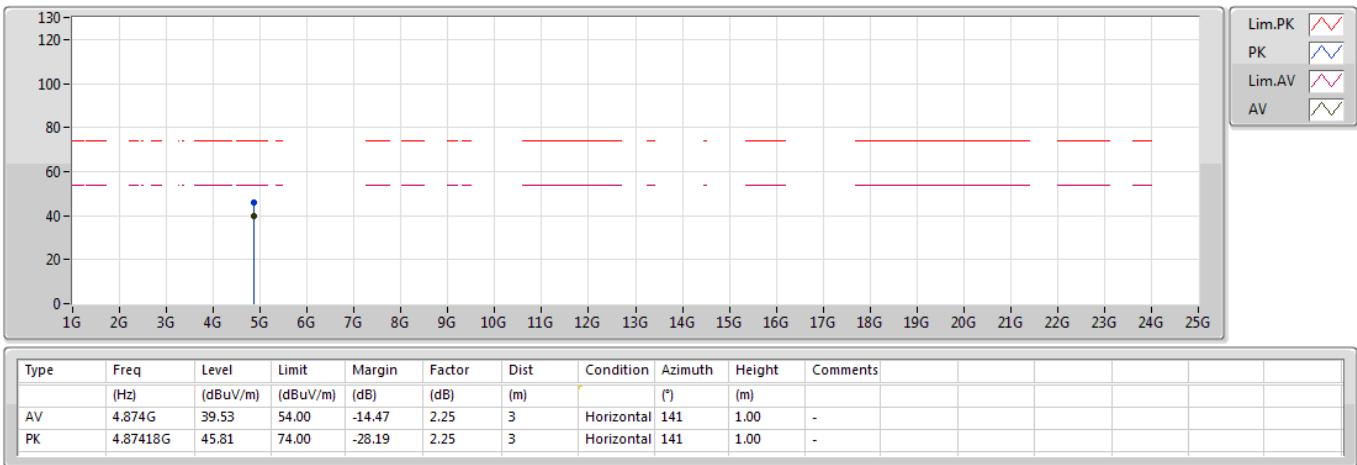
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2437MHz_TX


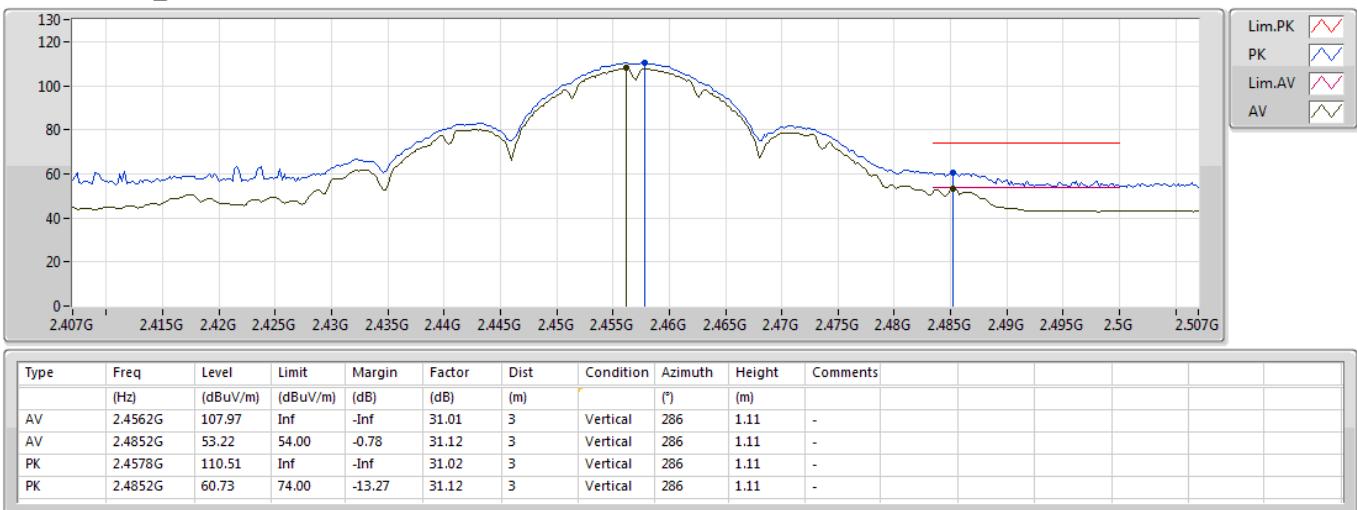
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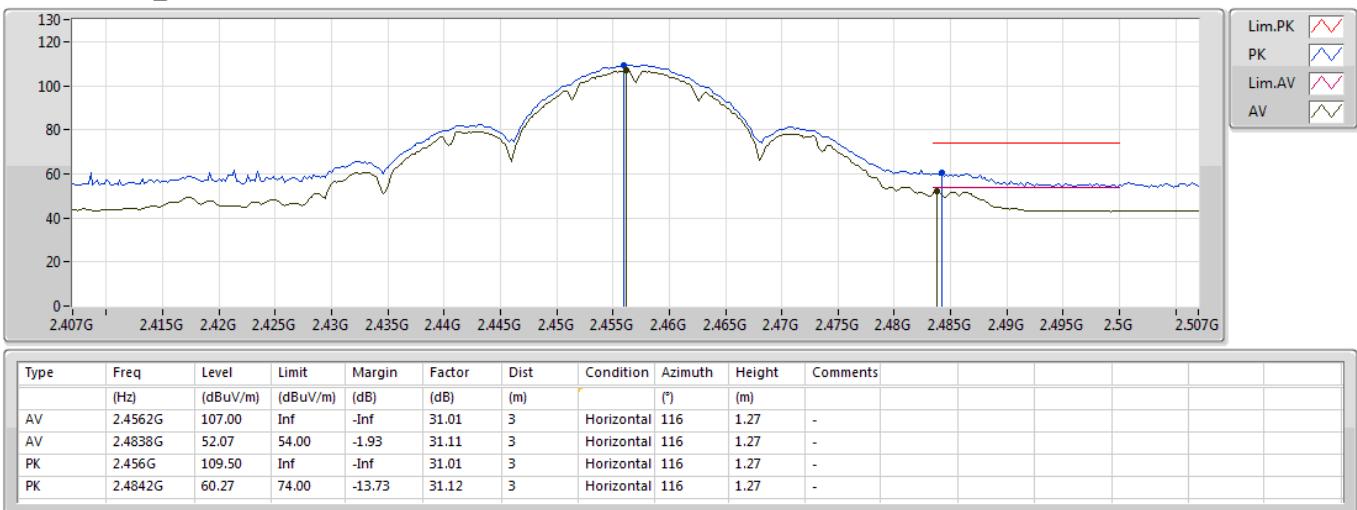
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26/12/2018

2457MHz_TX


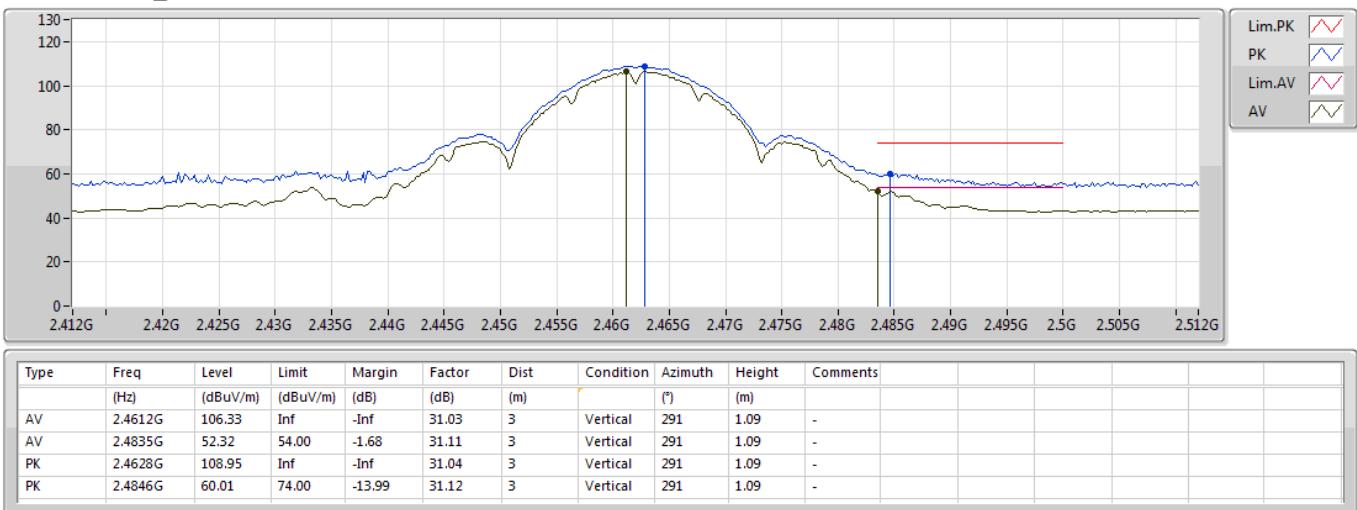
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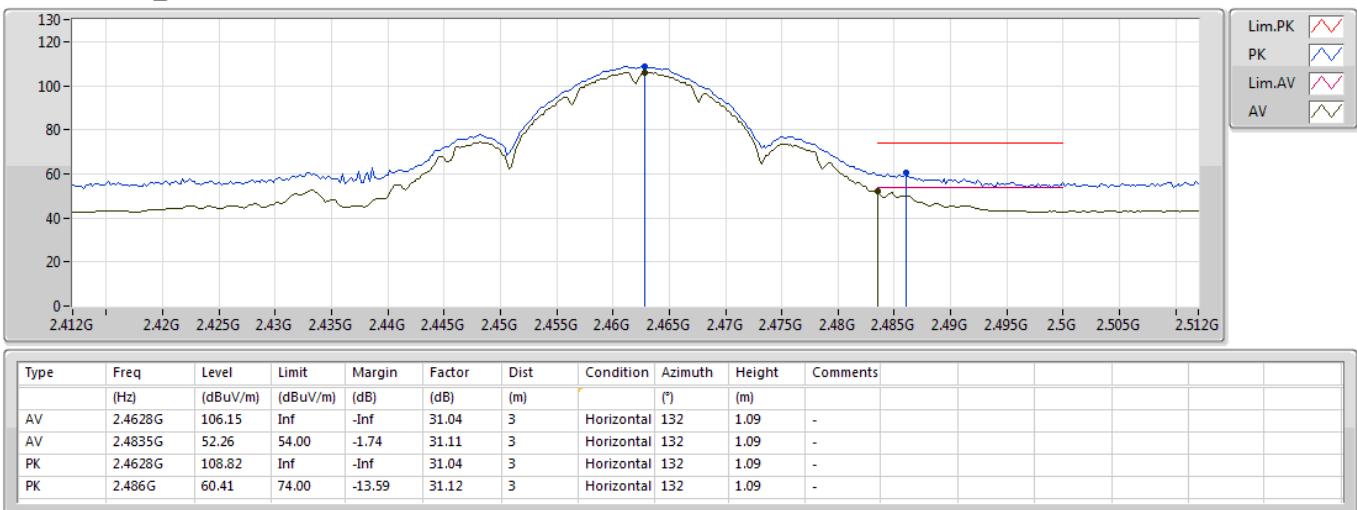
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26/12/2018

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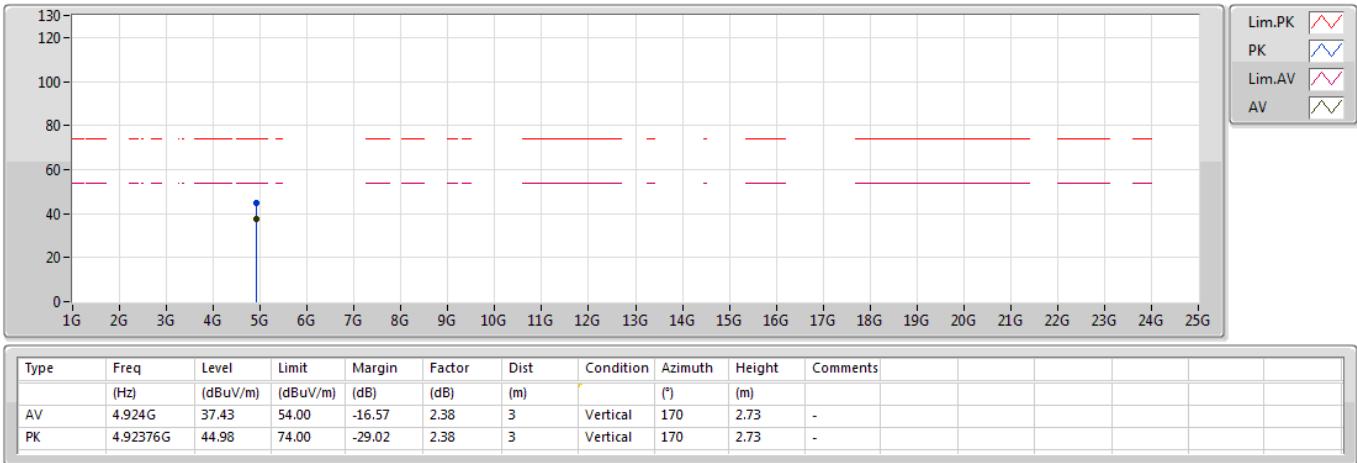
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26/12/2018

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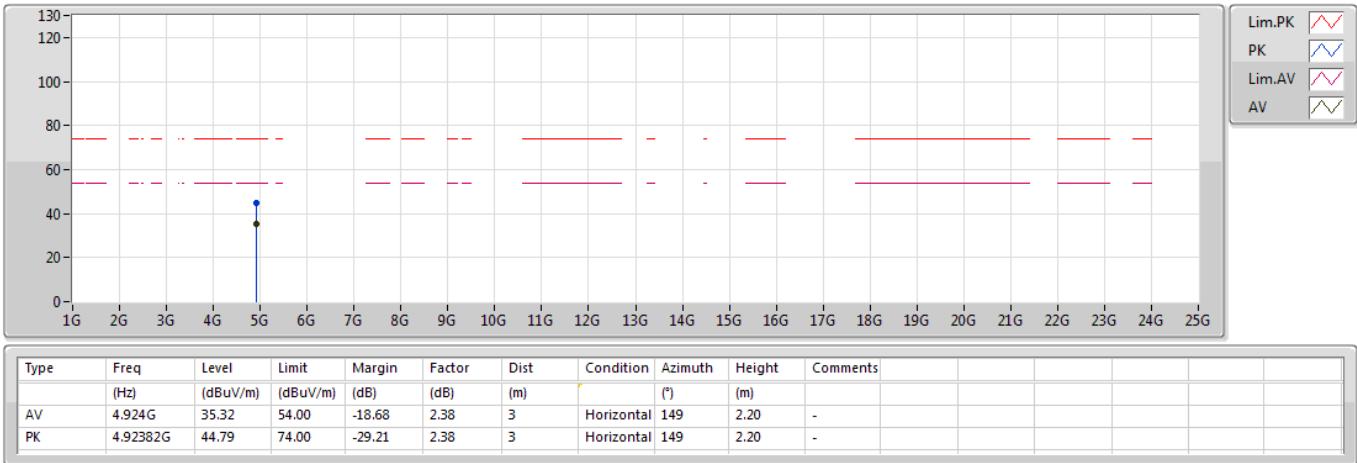
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26/12/2018

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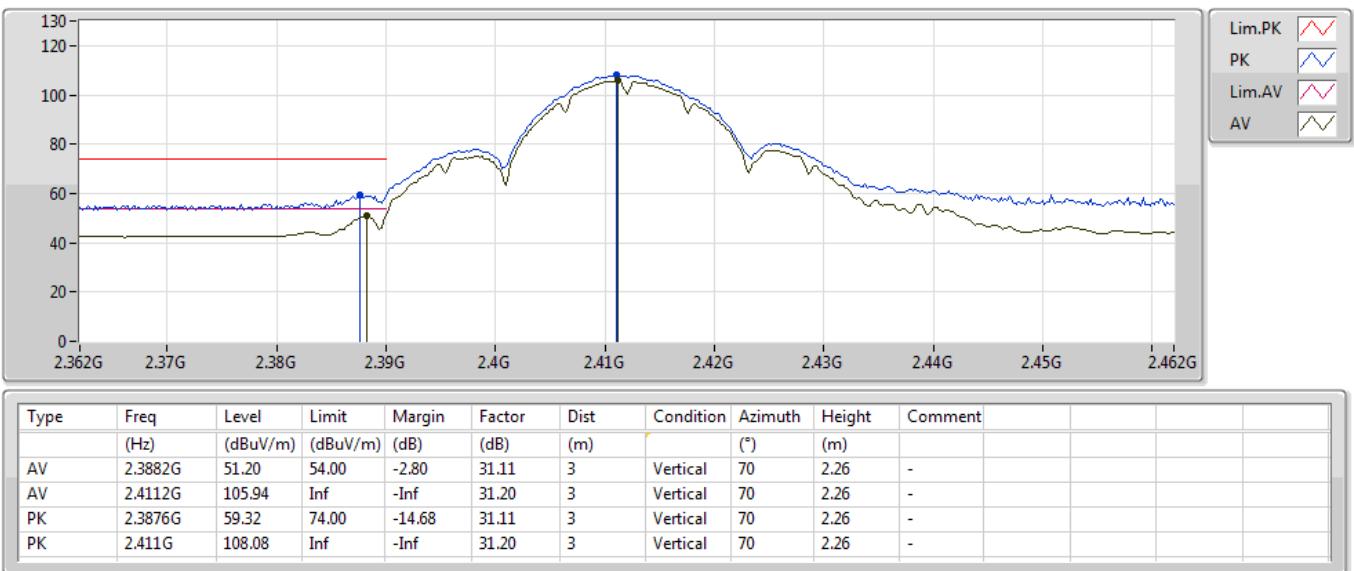
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26/12/2018

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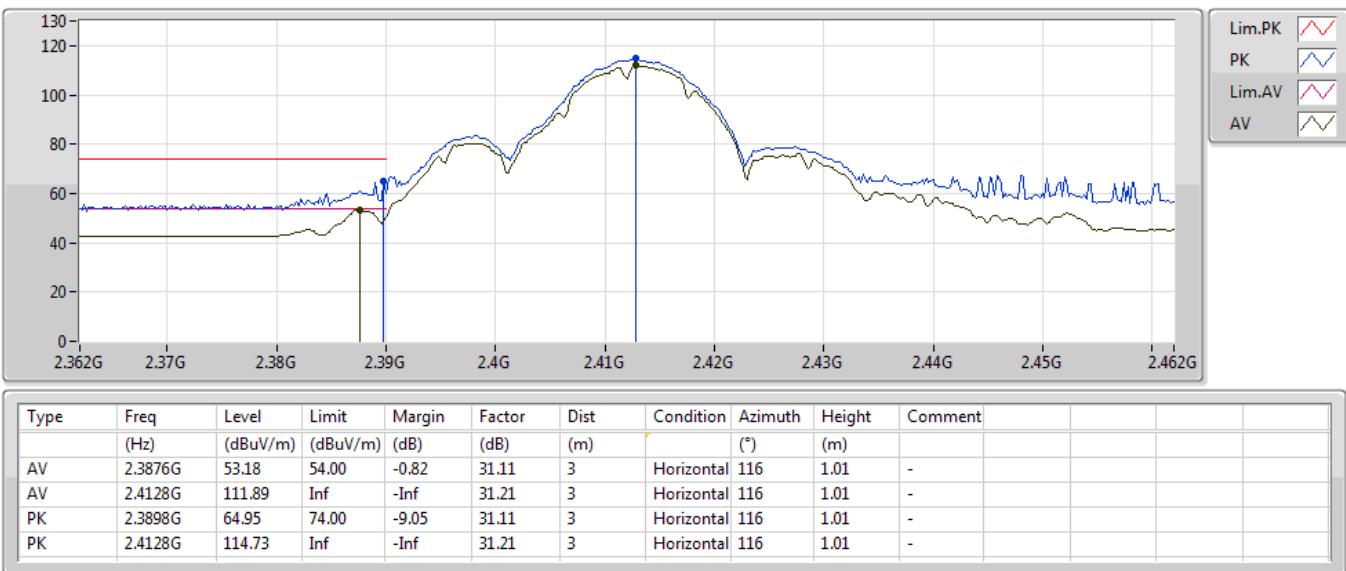
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16/04/2019

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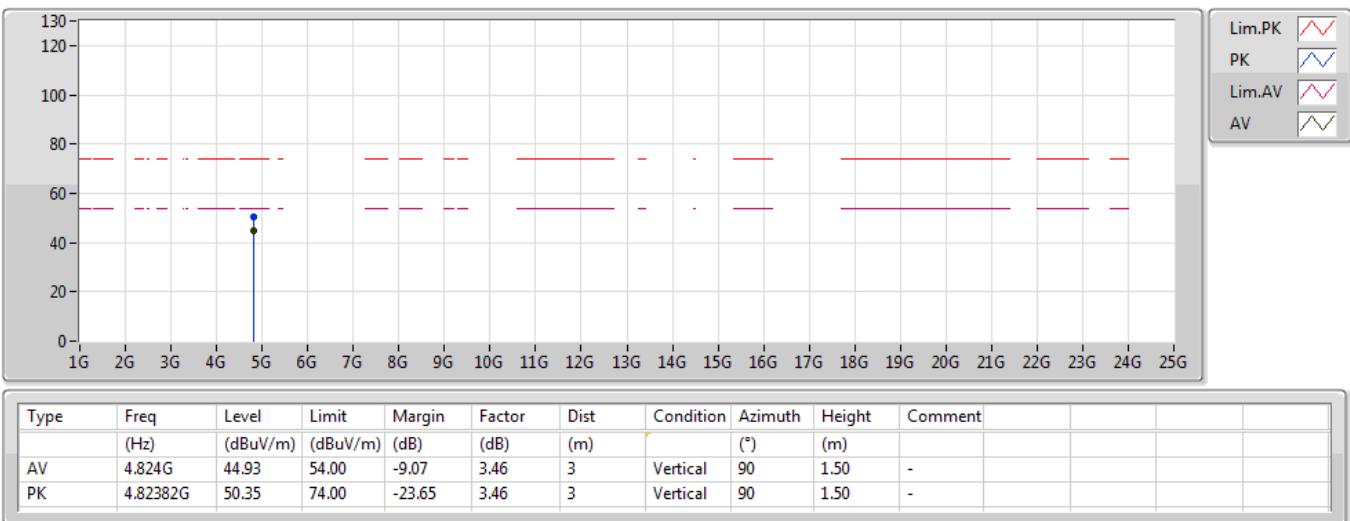
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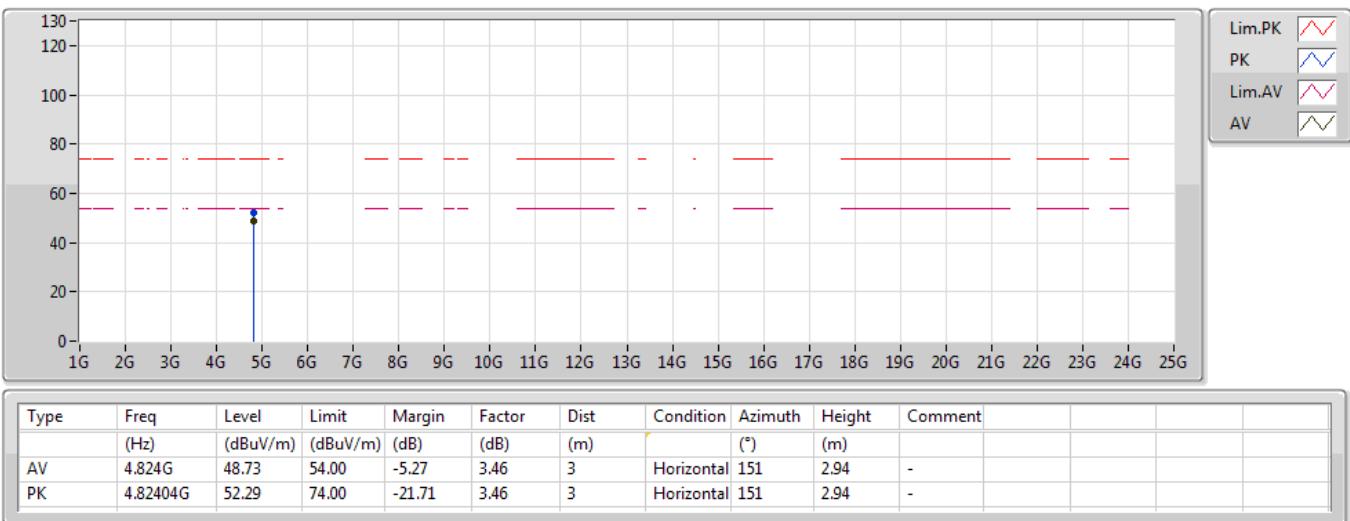
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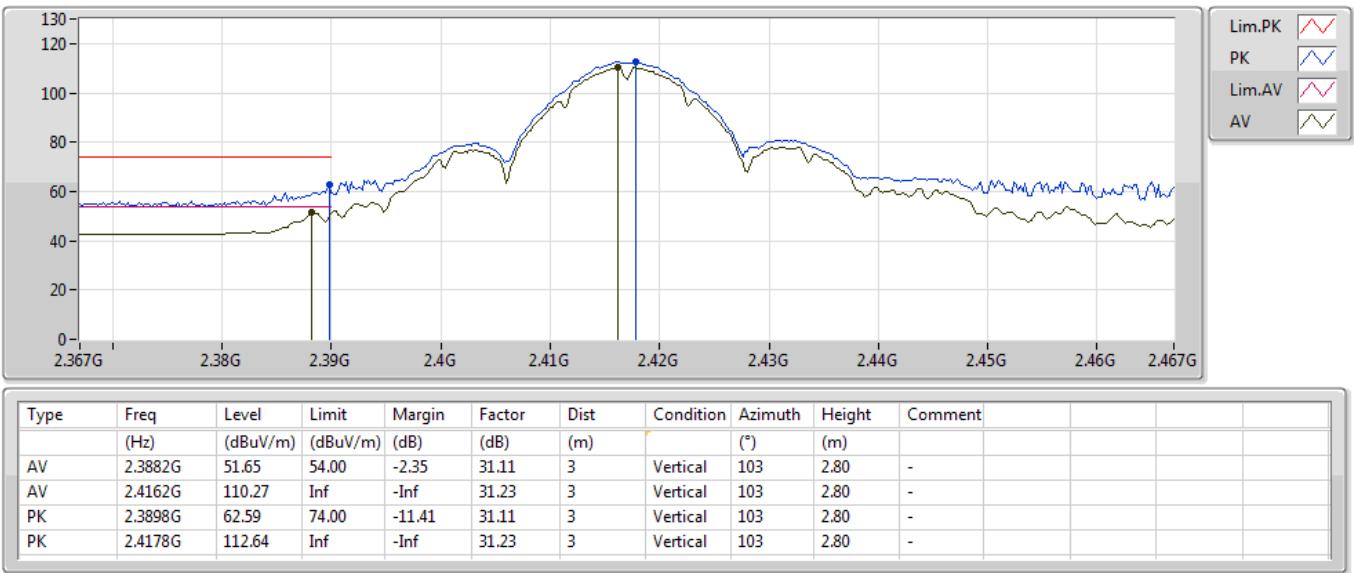
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17/04/2019

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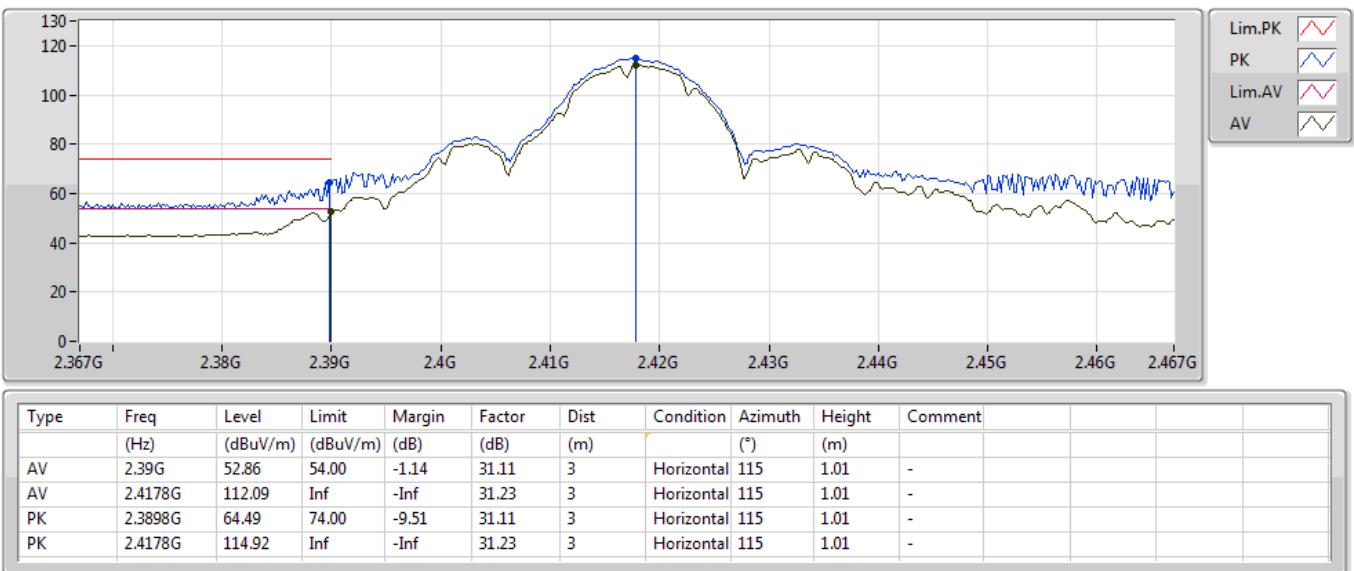
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17/04/2019

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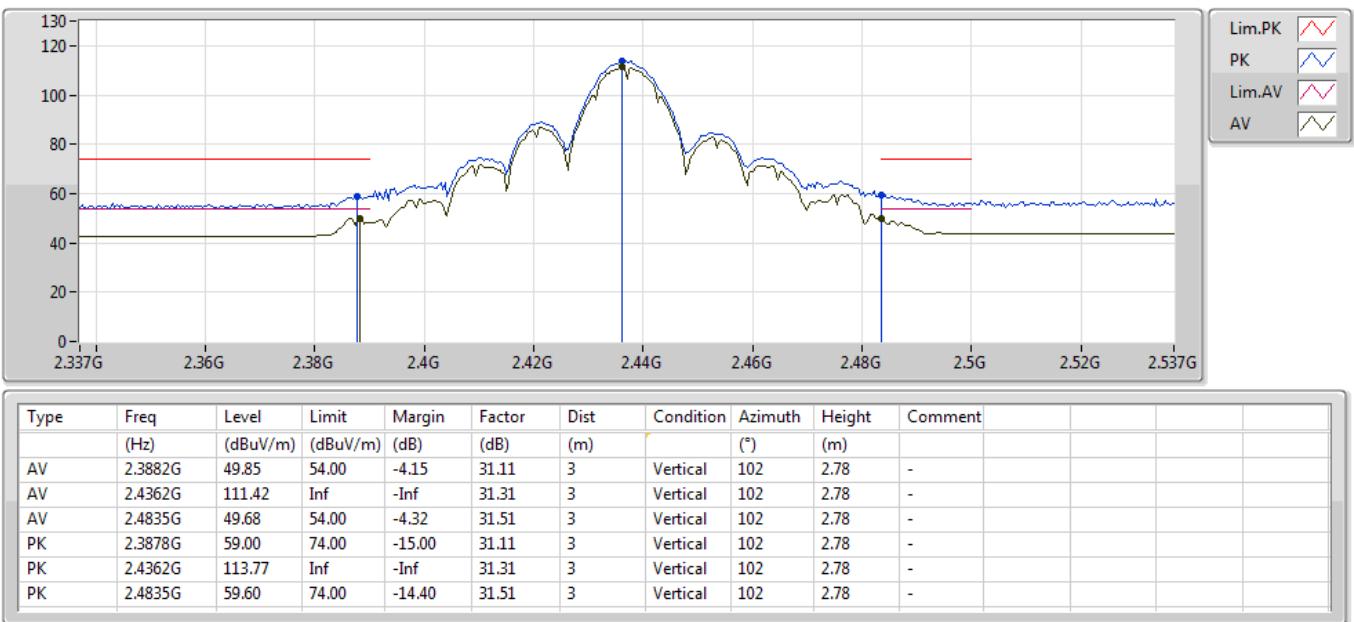
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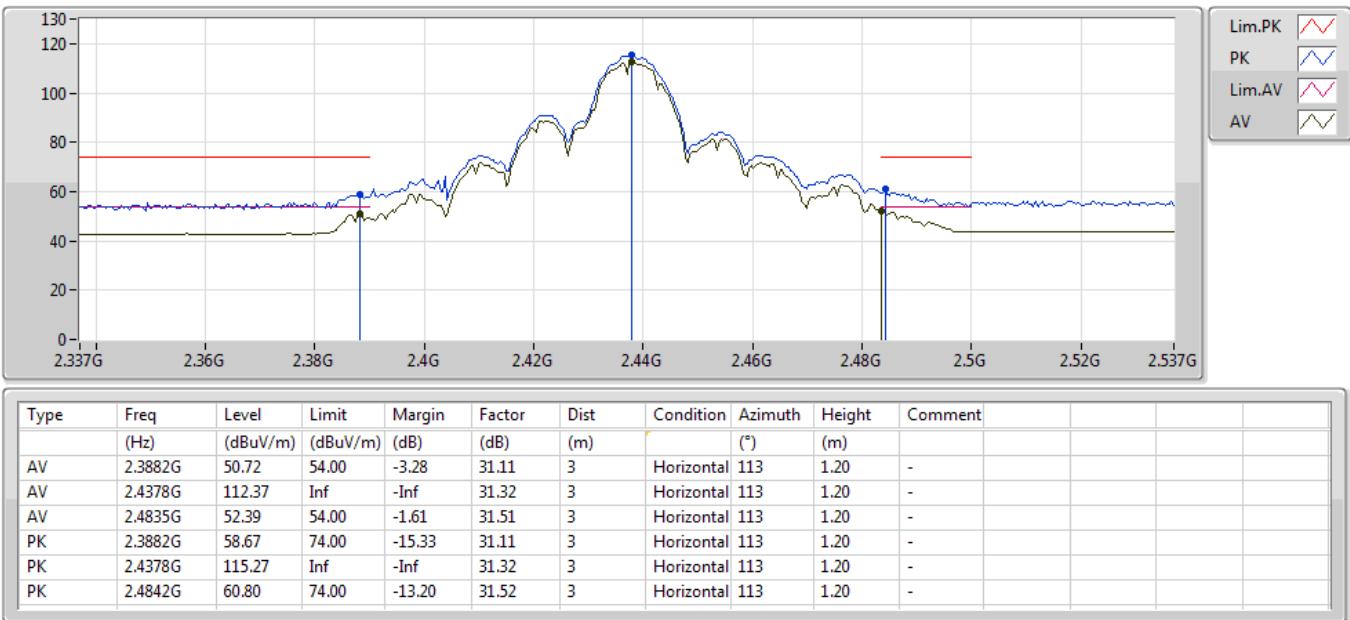
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16/04/2019

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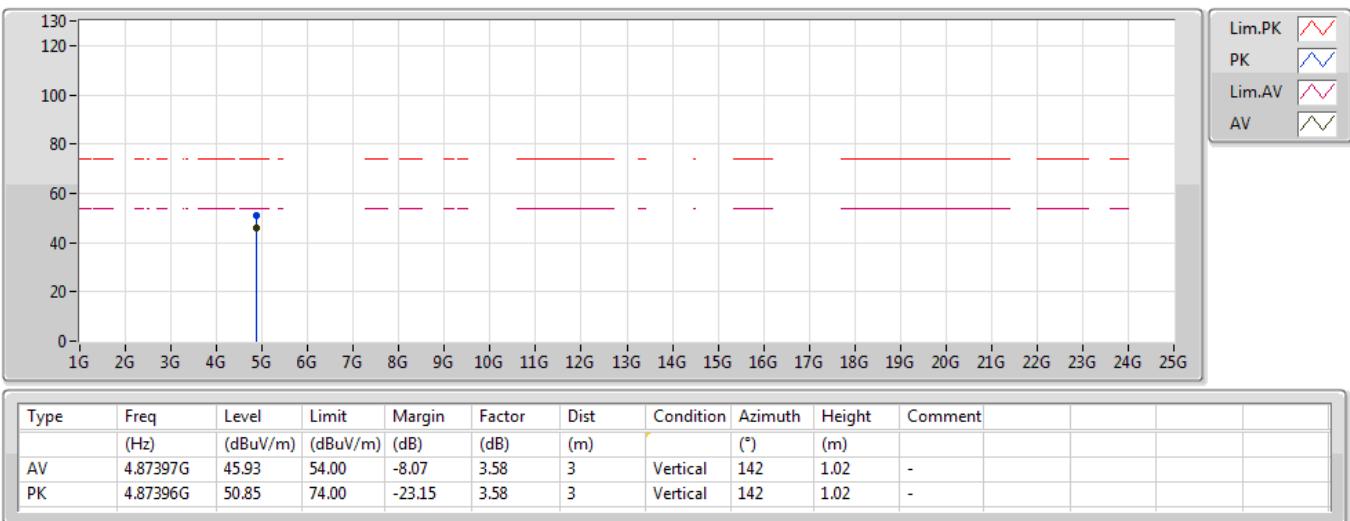
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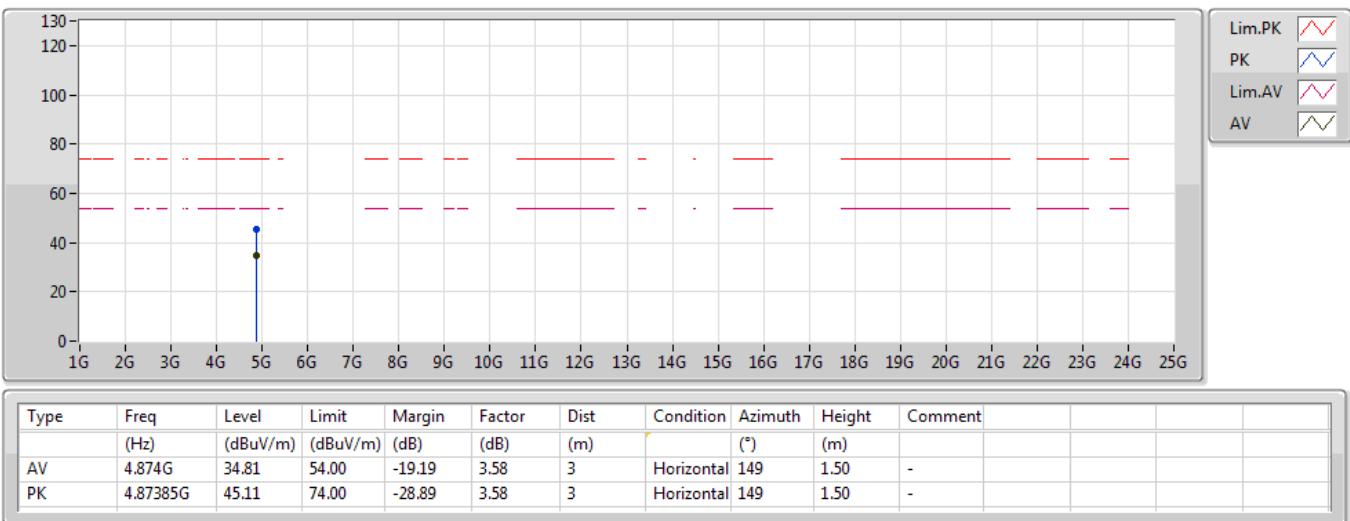
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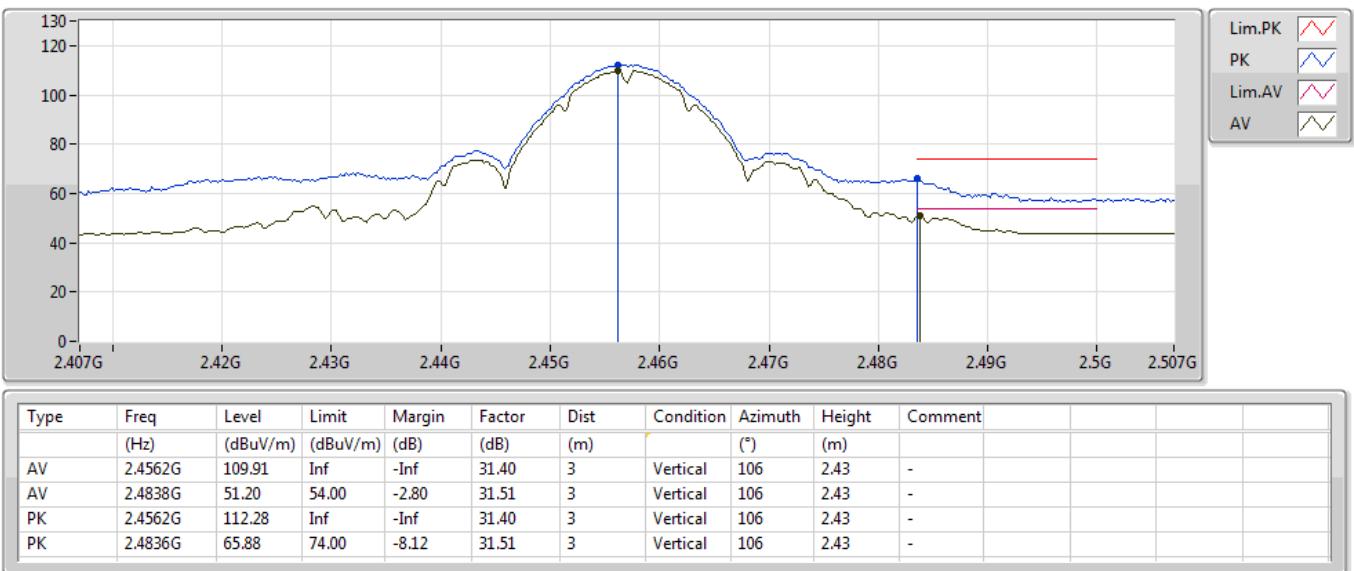
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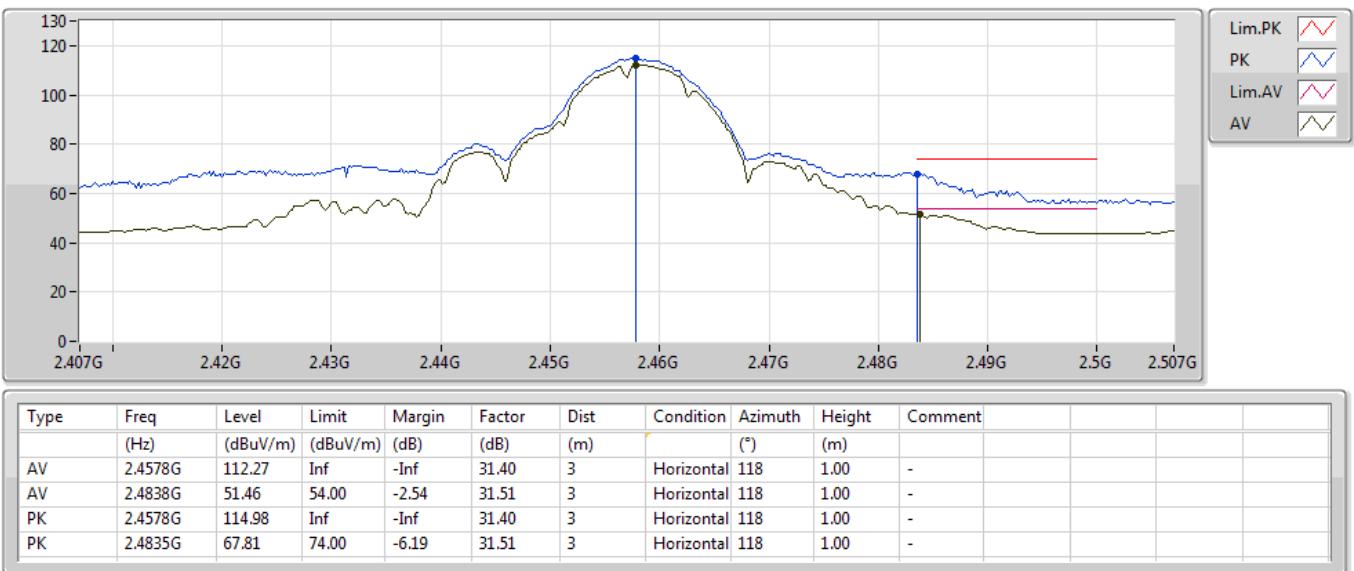
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17/04/2019

2457MHz_TX


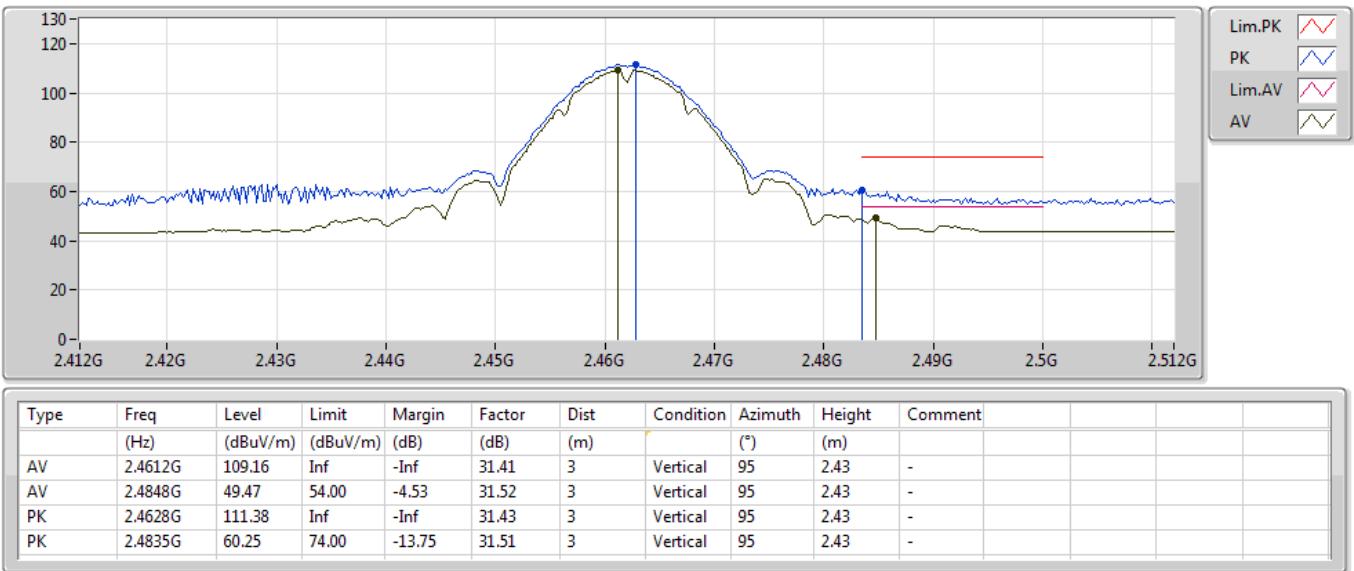
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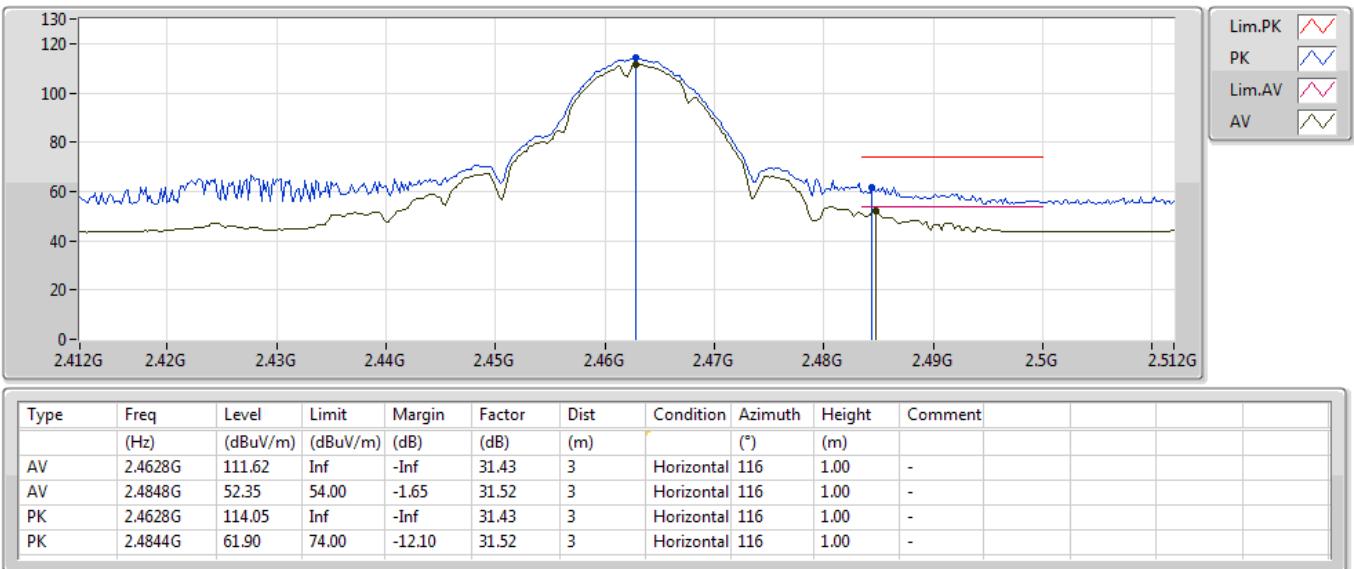
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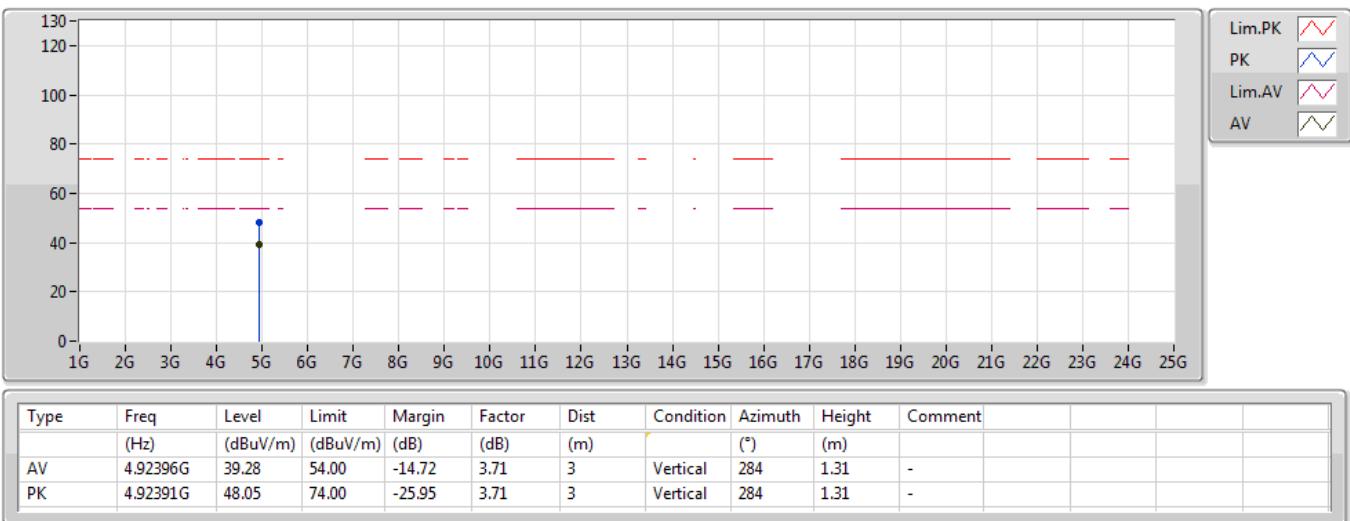
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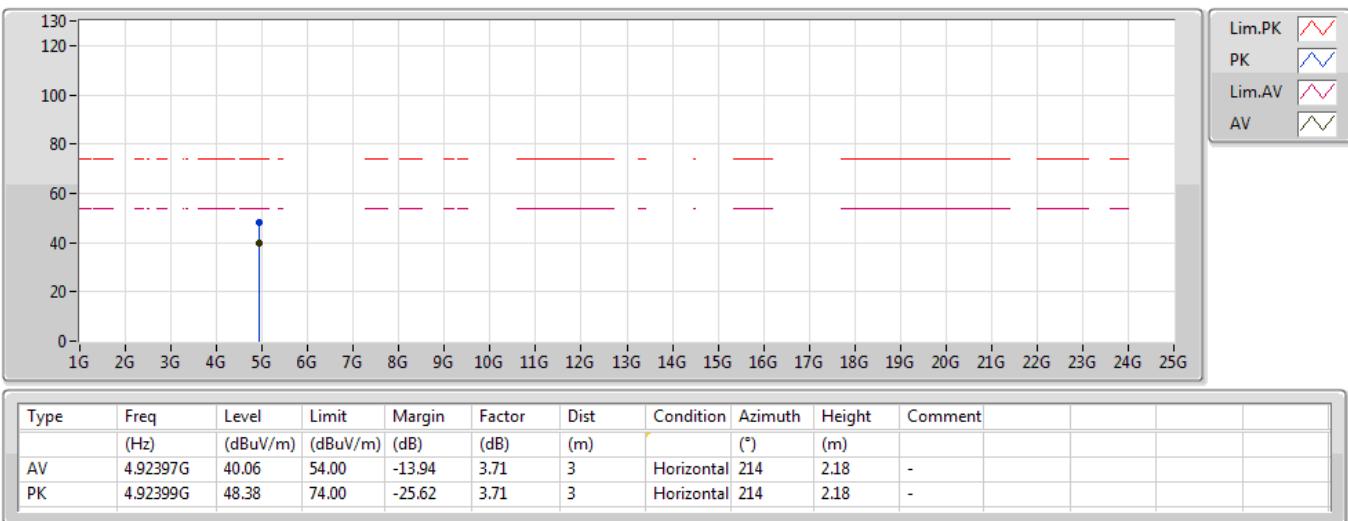
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17/04/2019

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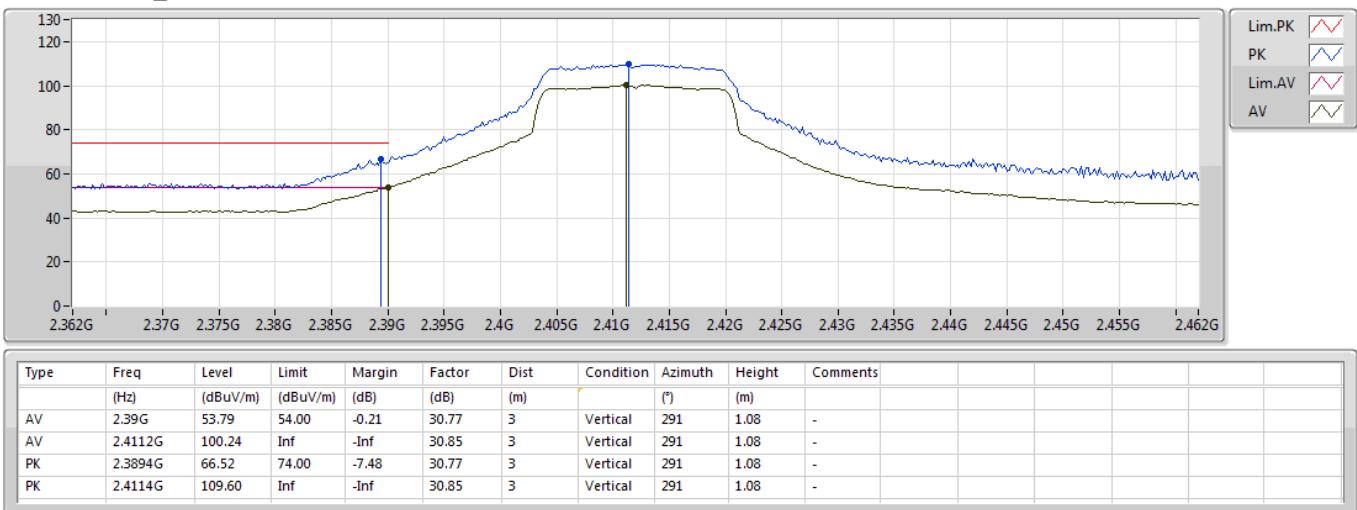
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17/04/2019

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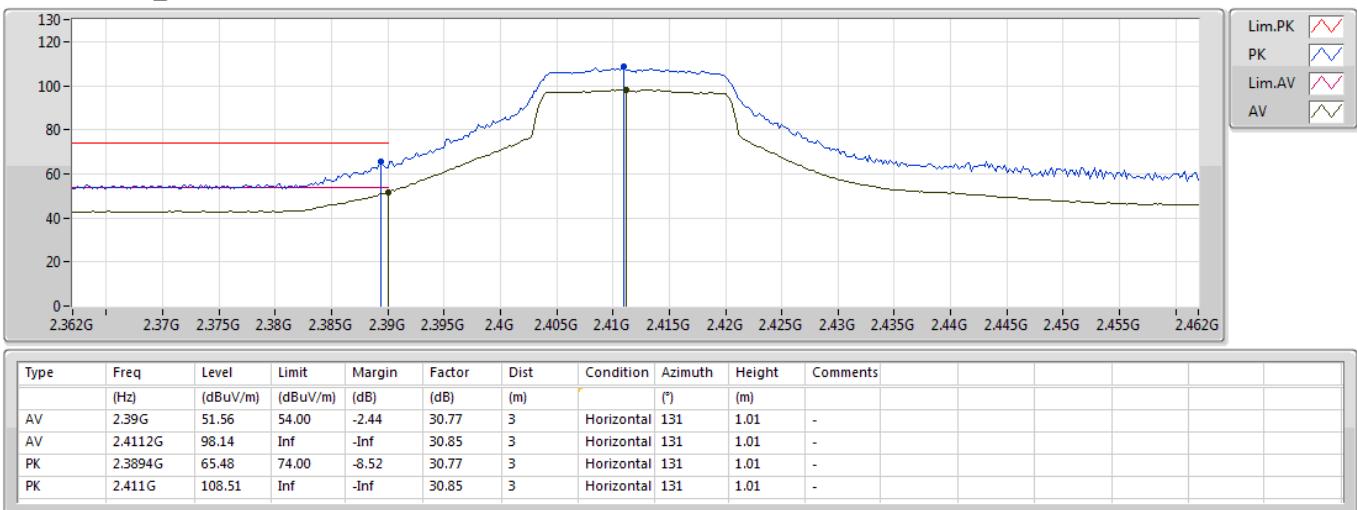
802.11g_Nss1,(6Mbps)_1TX(Port1)

26/12/2018

2412MHz_TX


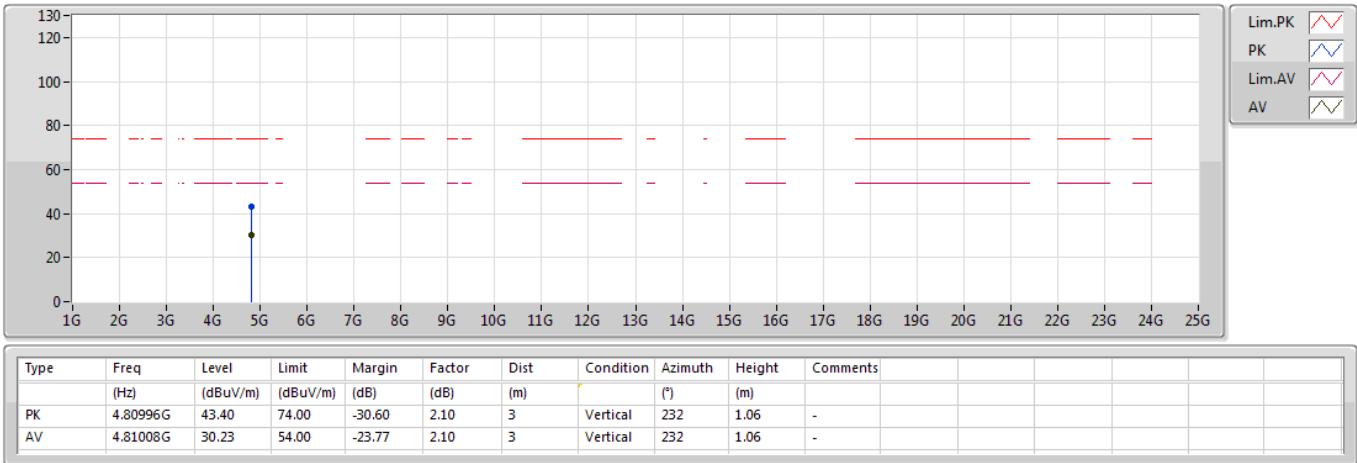
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26/12/2018

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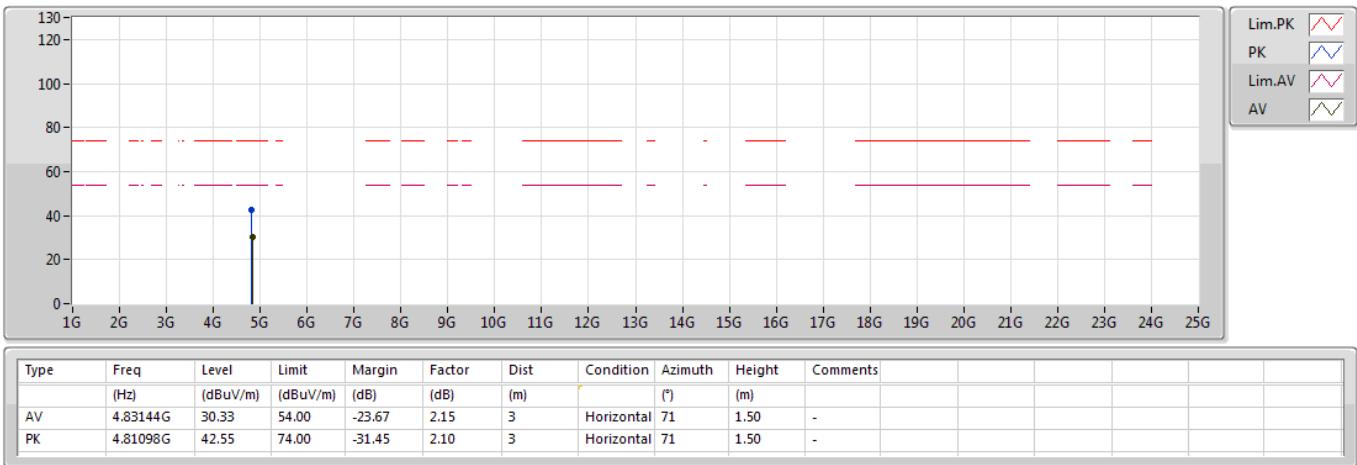
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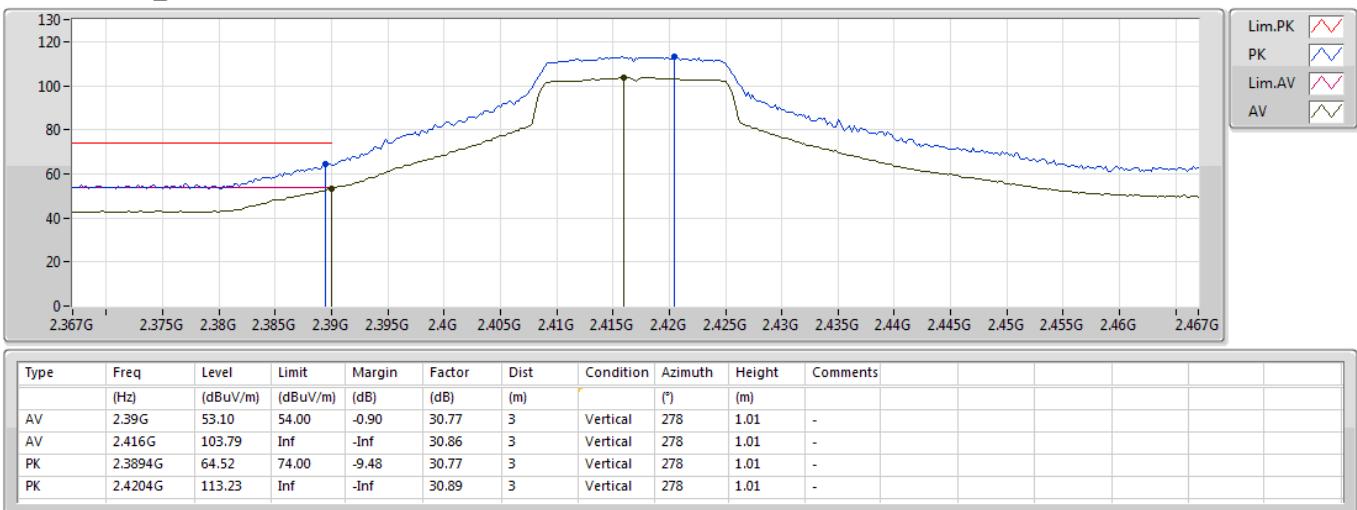
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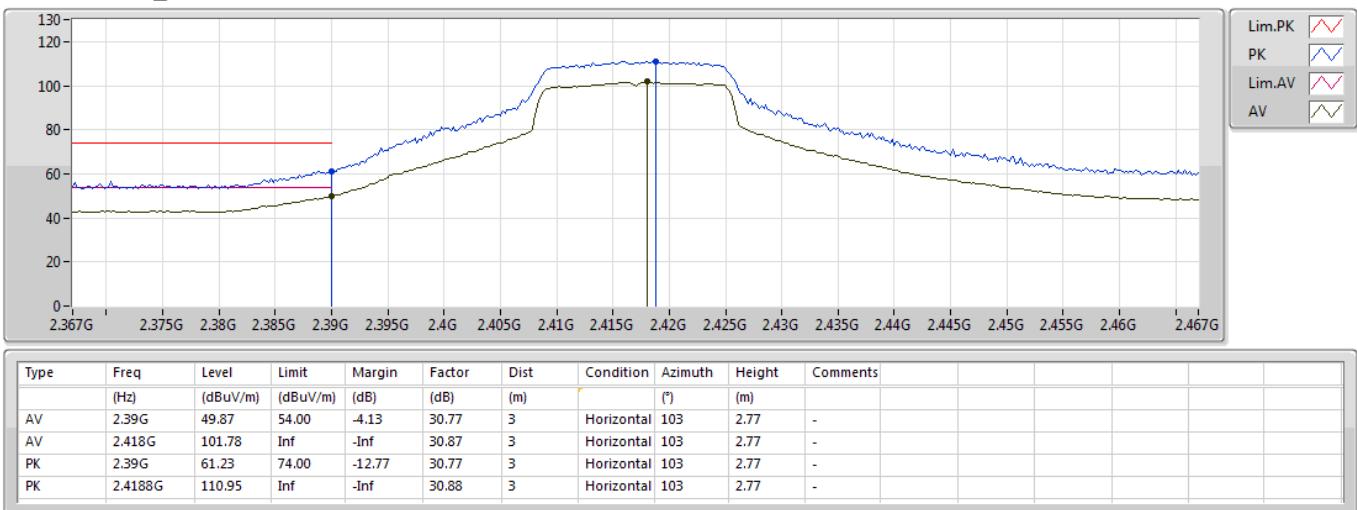
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26/12/2018

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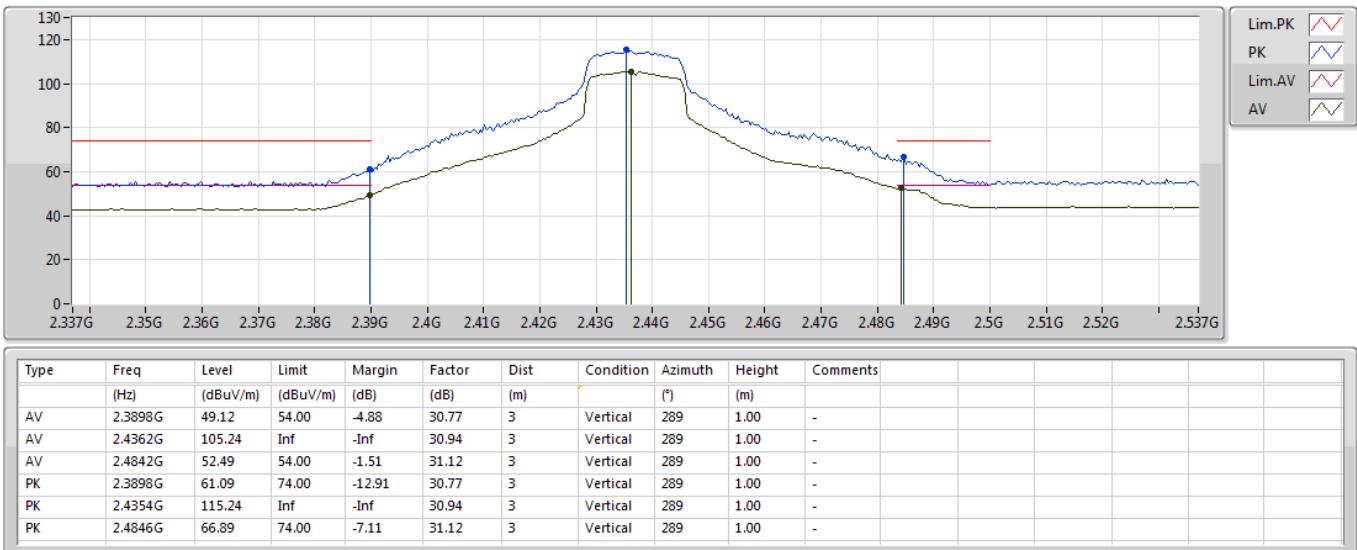
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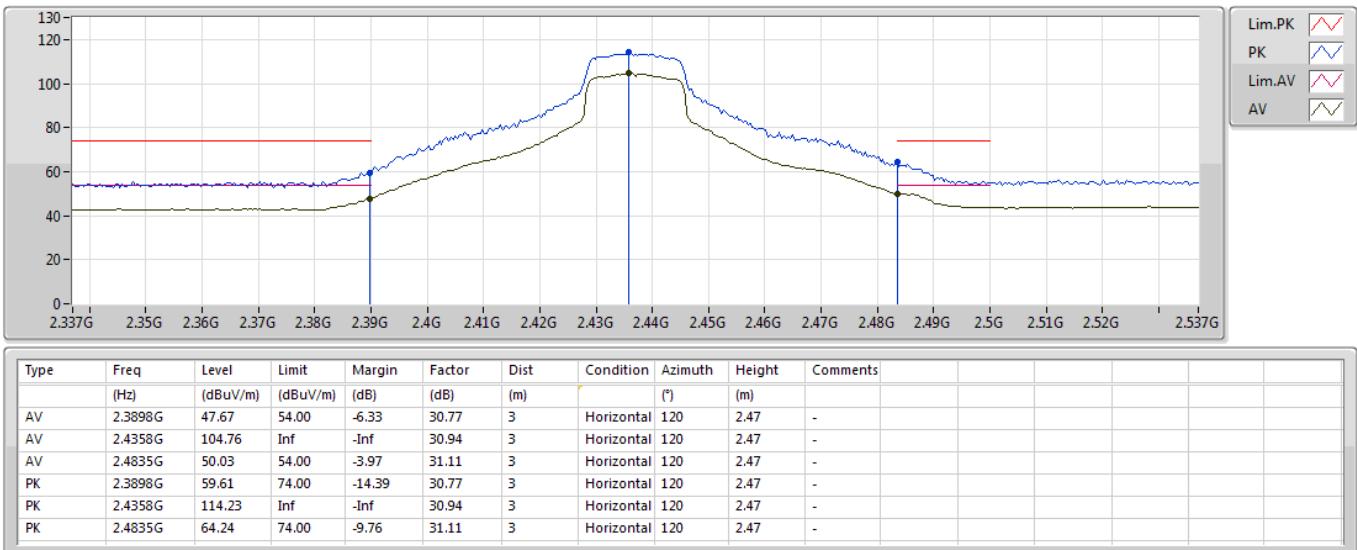
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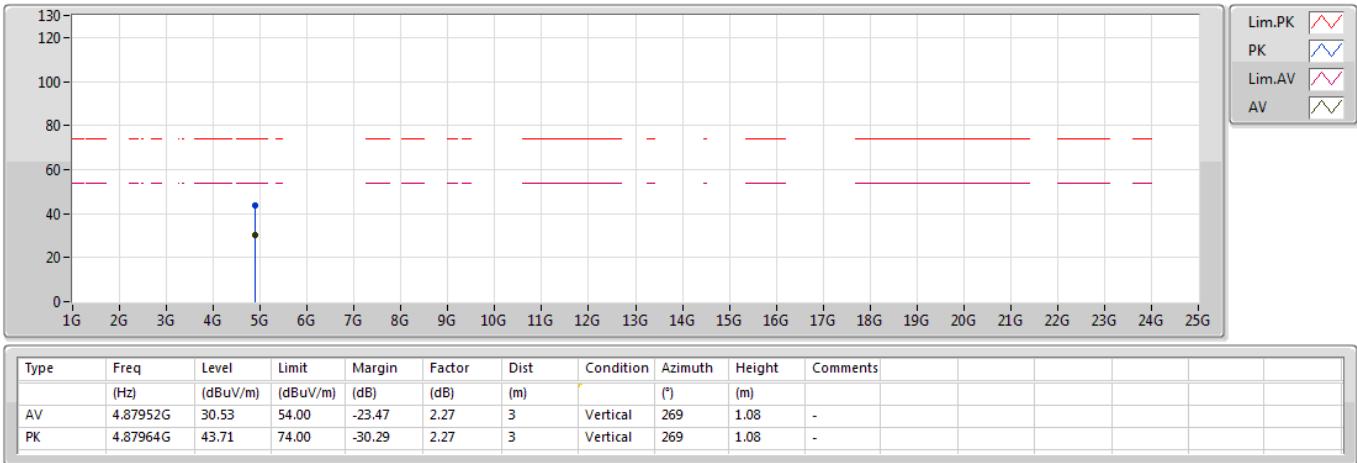
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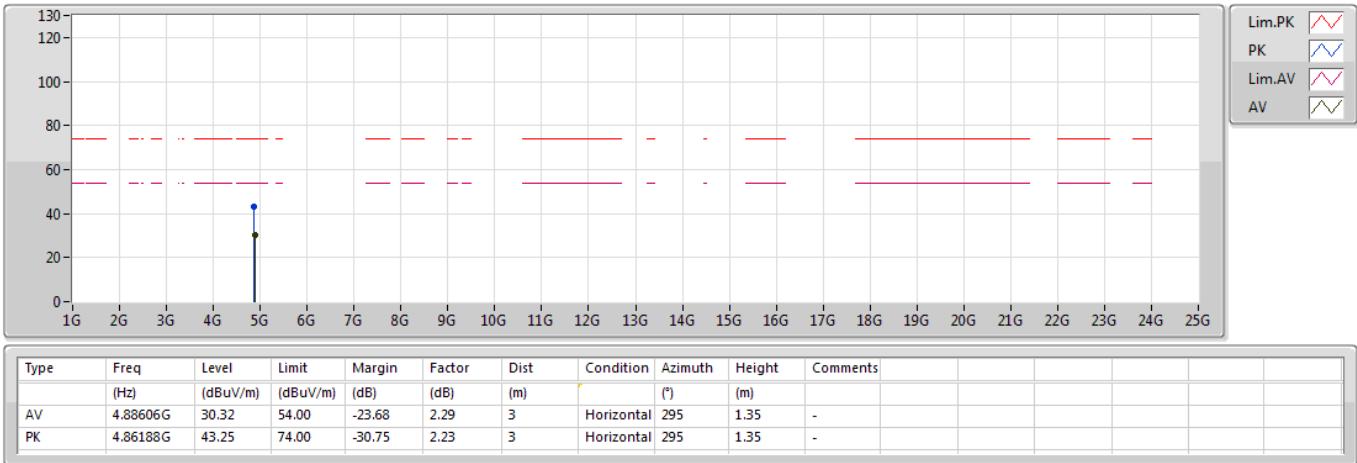
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26/12/2018

2437MHz_TX


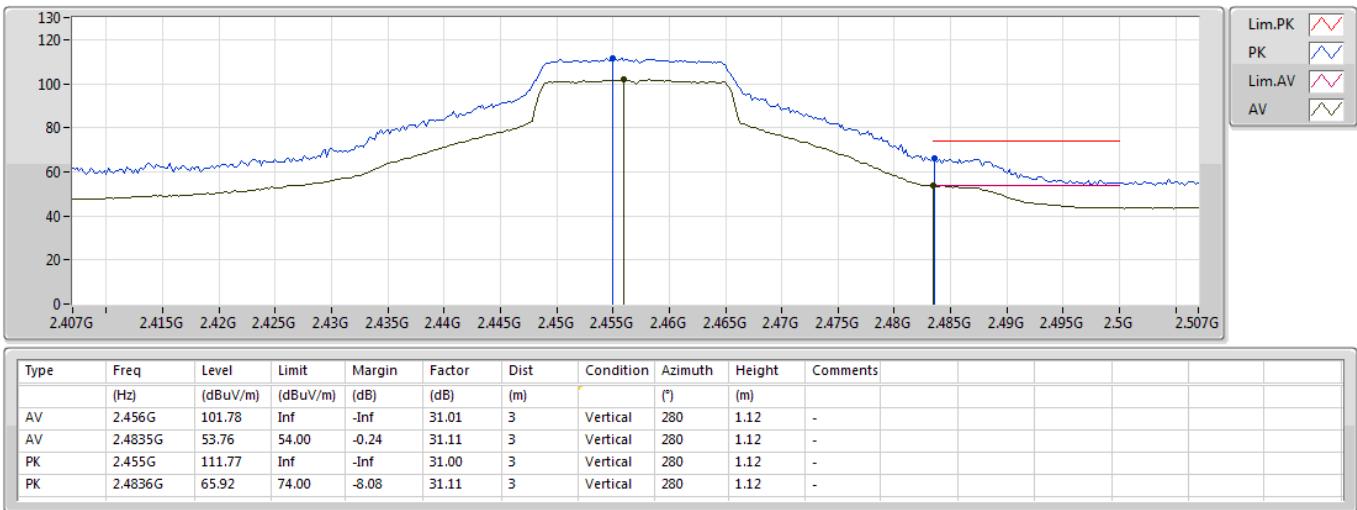
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26/12/2018

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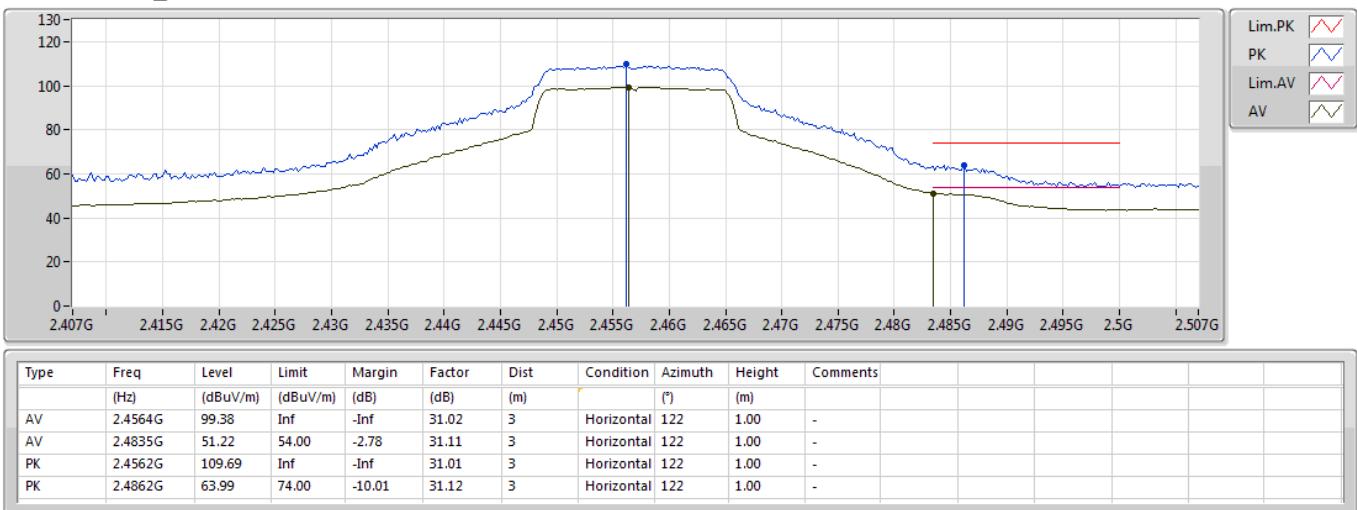
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26/12/2018

2457MHz_TX


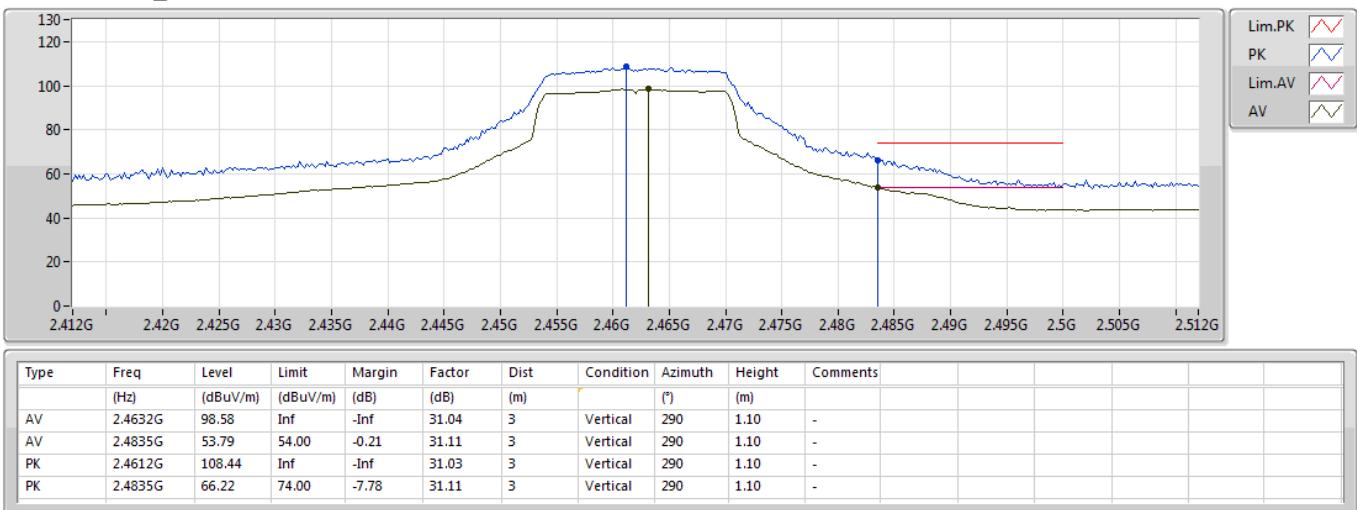
802.11g_Nss1,(6Mbps)_1TX(Port1)

26/12/2018

2457MHz_TX


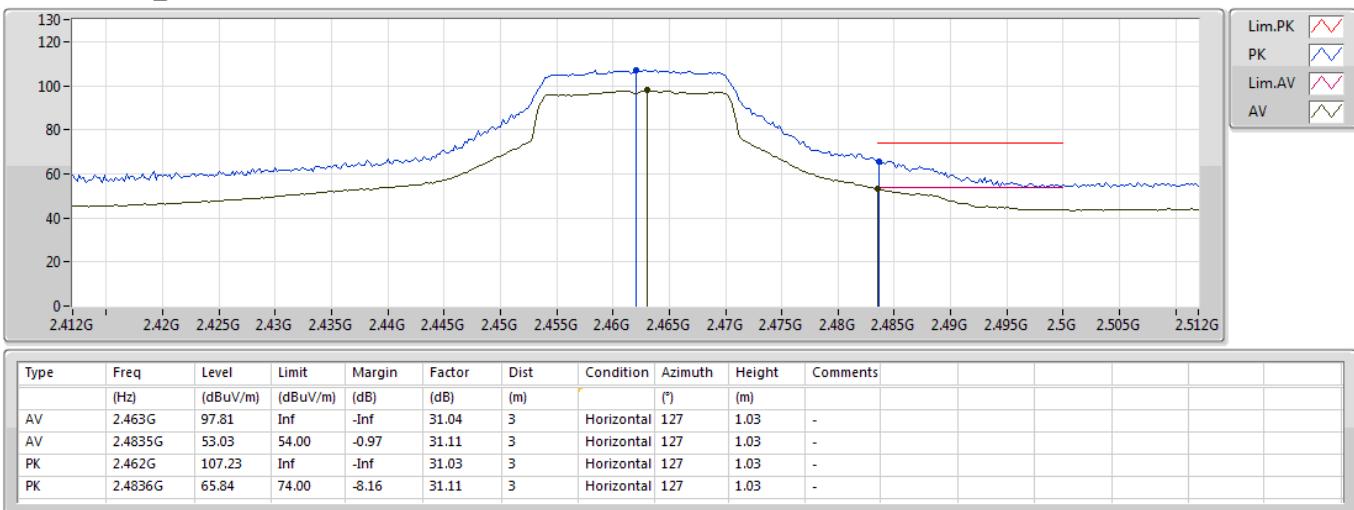
802.11g_Nss1,(6Mbps)_1TX(Port1)

26/12/2018

2462MHz_TX


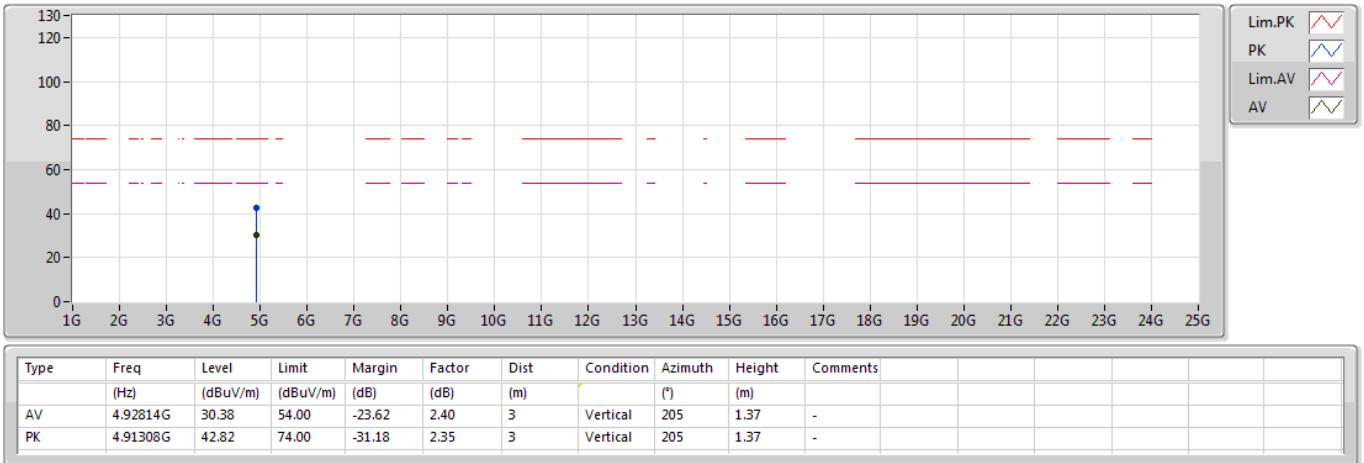
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26/12/2018

2462MHz_TX


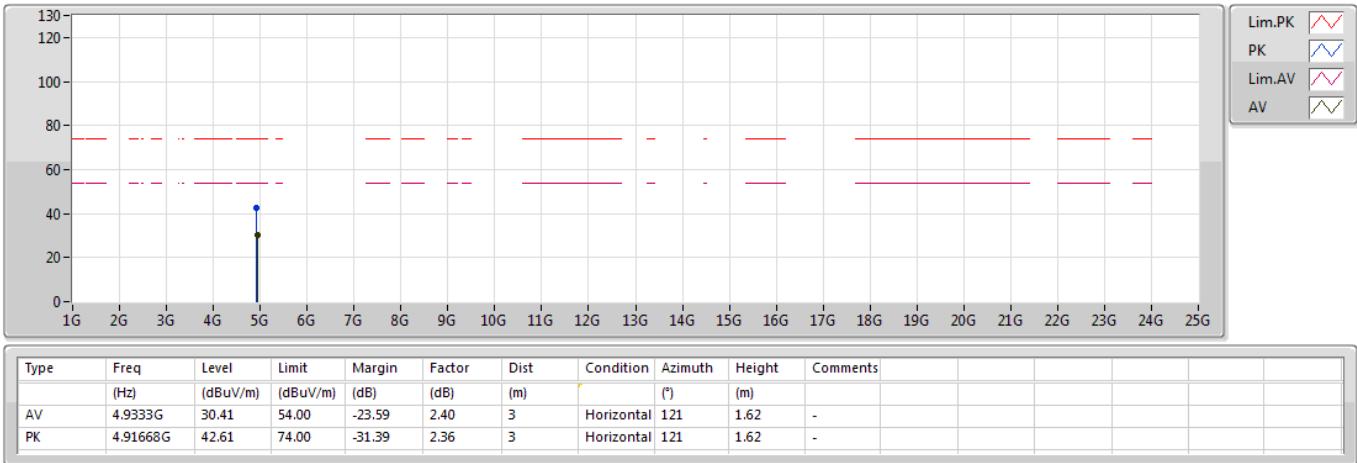
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26/12/2018

2462MHz_TX


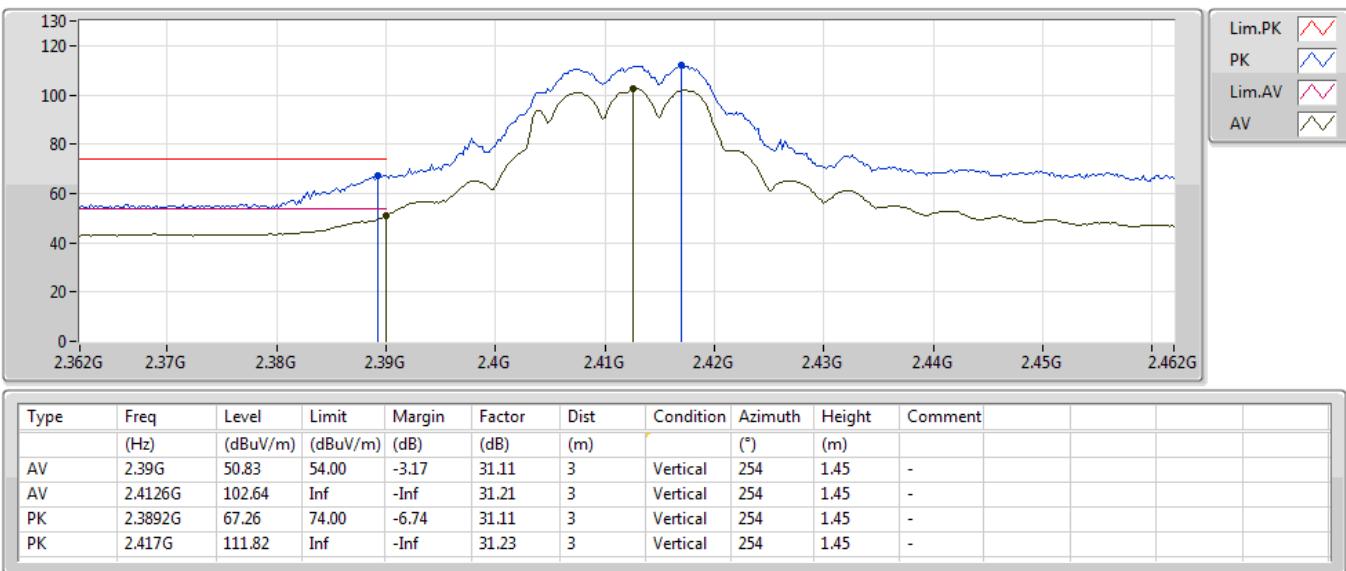
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26/12/2018

2462MHz_TX


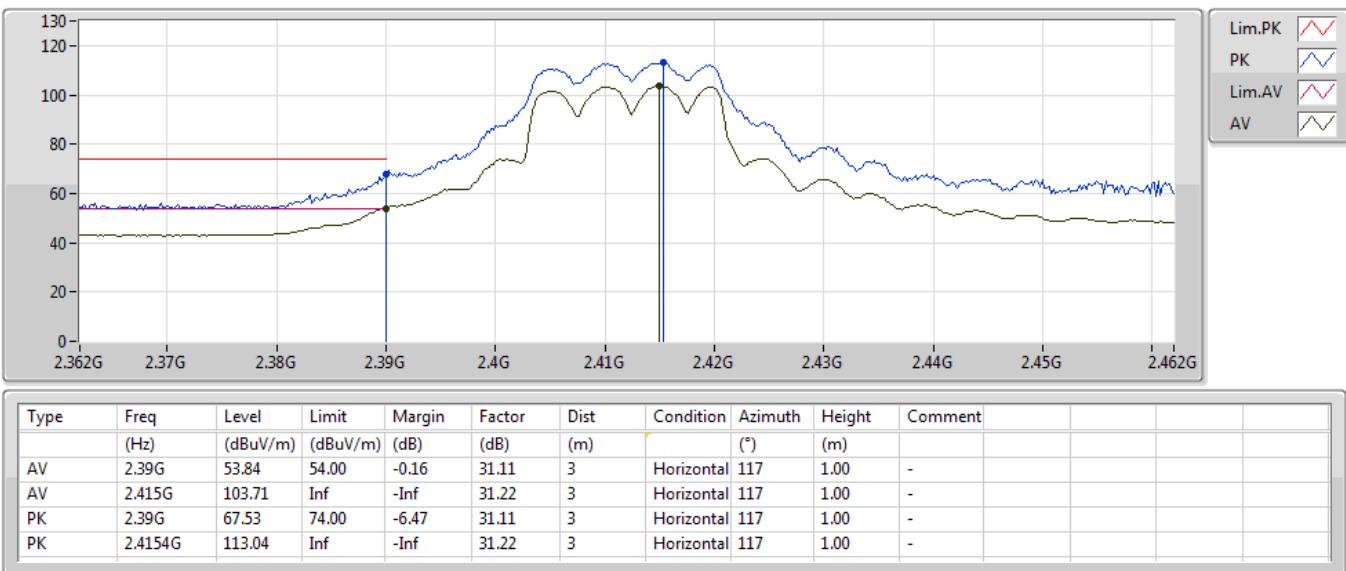
802.11g_Nss1,(6Mbps)_2TX

16/04/2019

2412MHz_TX


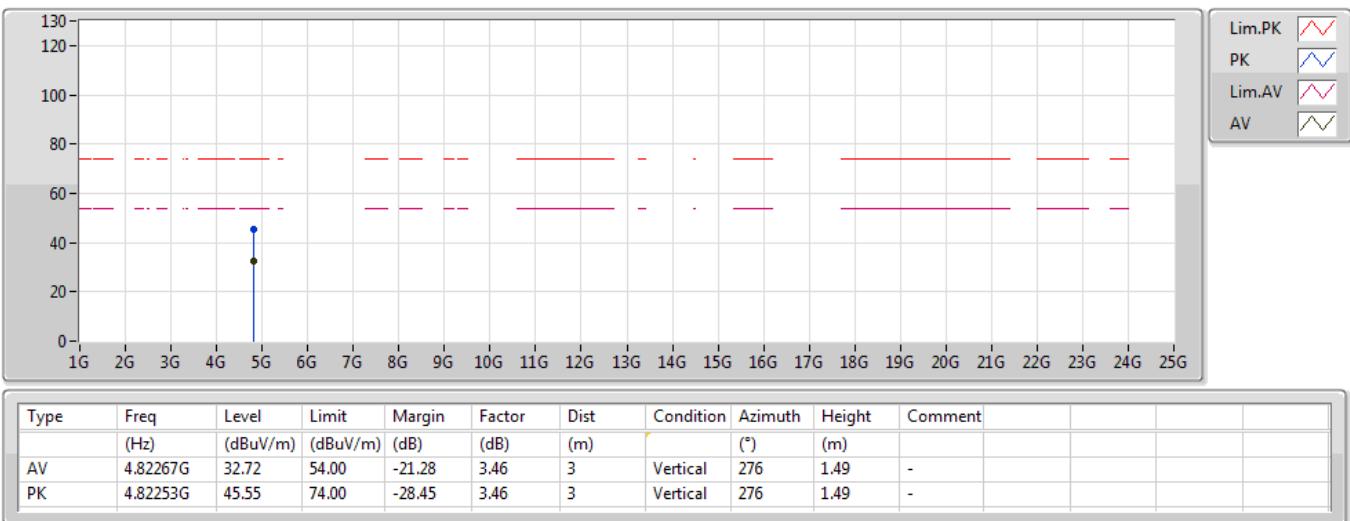
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16/04/2019

2412MHz_TX


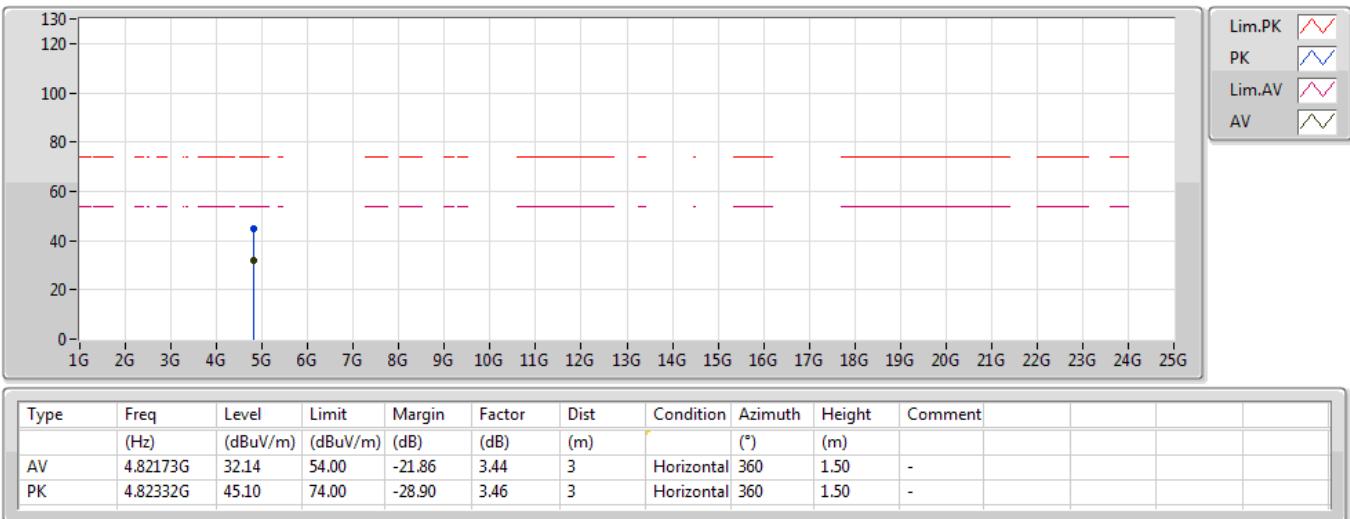
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17/04/2019

2412MHz_TX

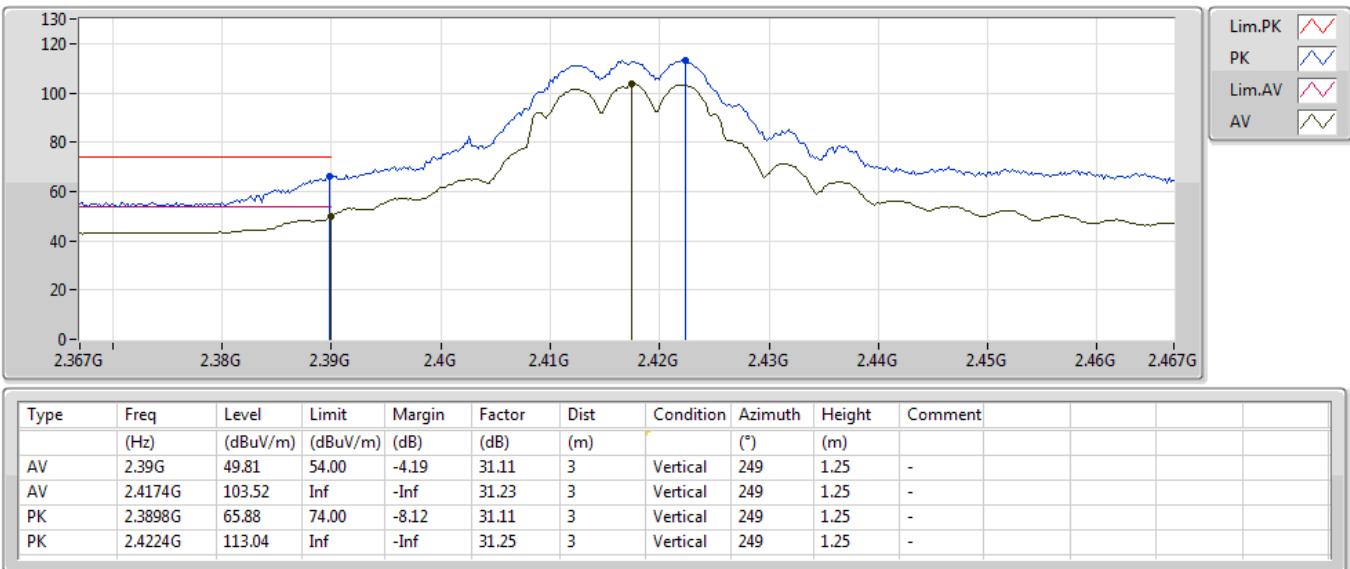
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17/04/2019

2412MHz_TX


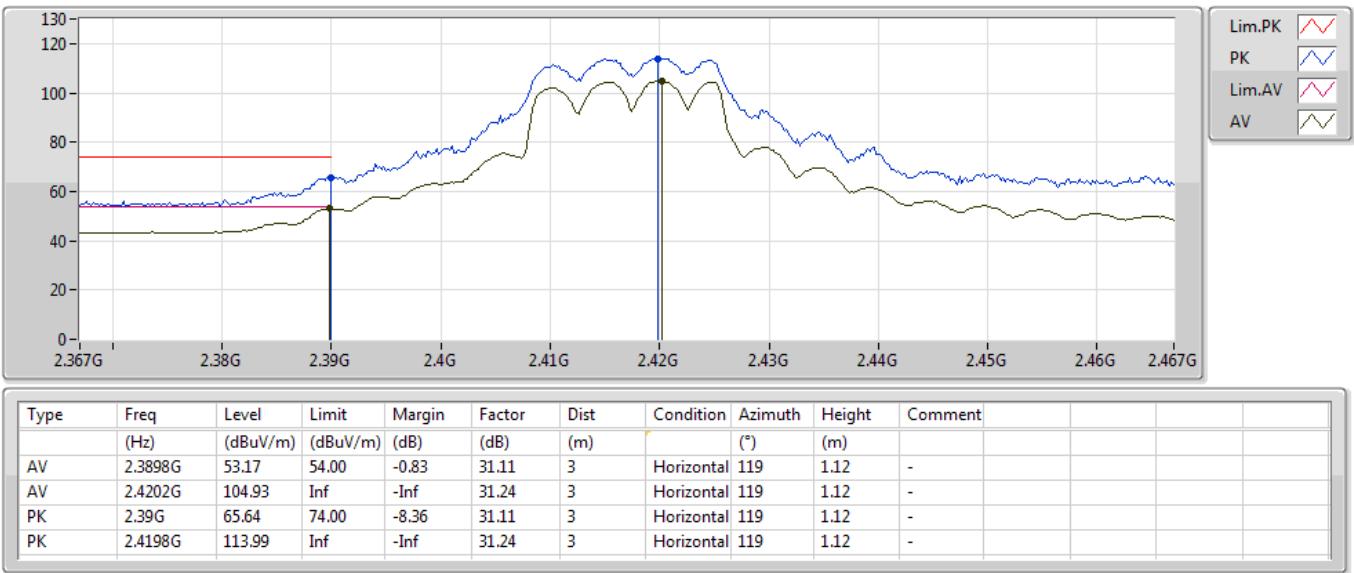
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17/04/2019

2417MHz_TX


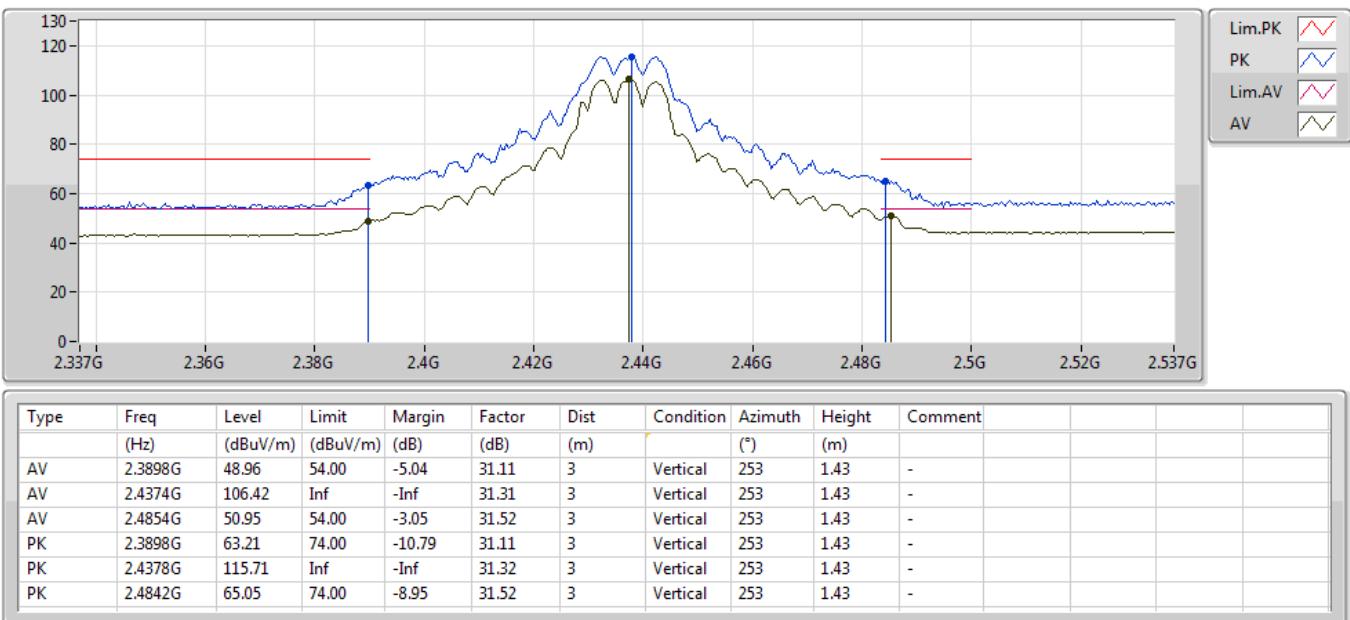
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17/04/2019

2417MHz_TX


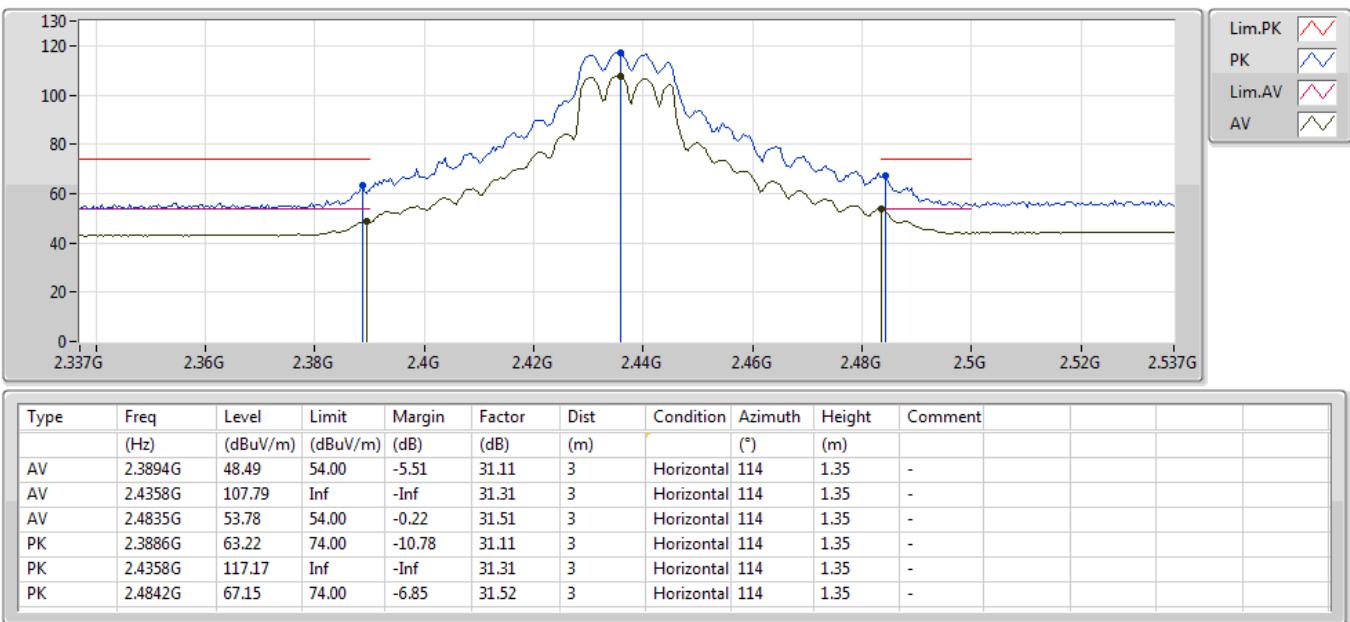
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16/04/2019

2437MHz_TX


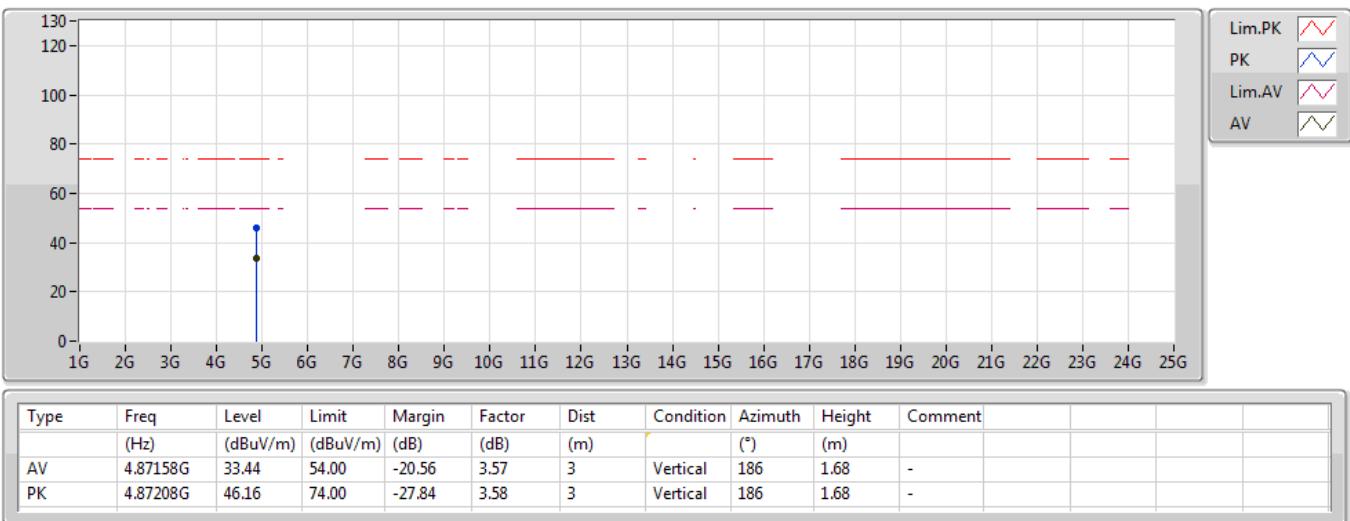
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16/04/2019

2437MHz_TX


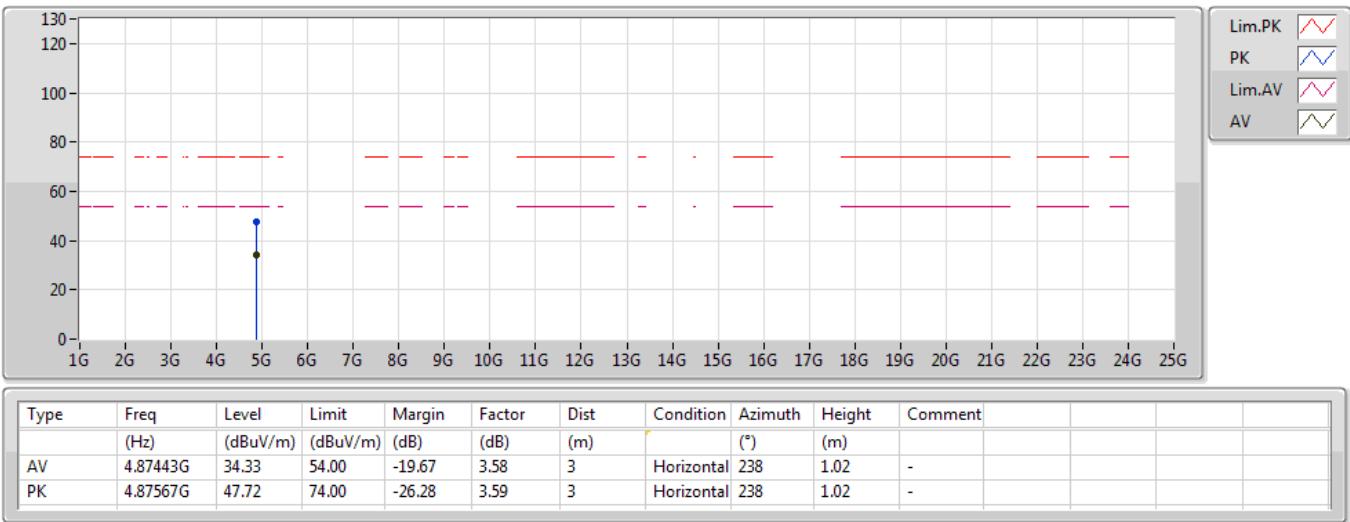
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17/04/2019

2437MHz_TX


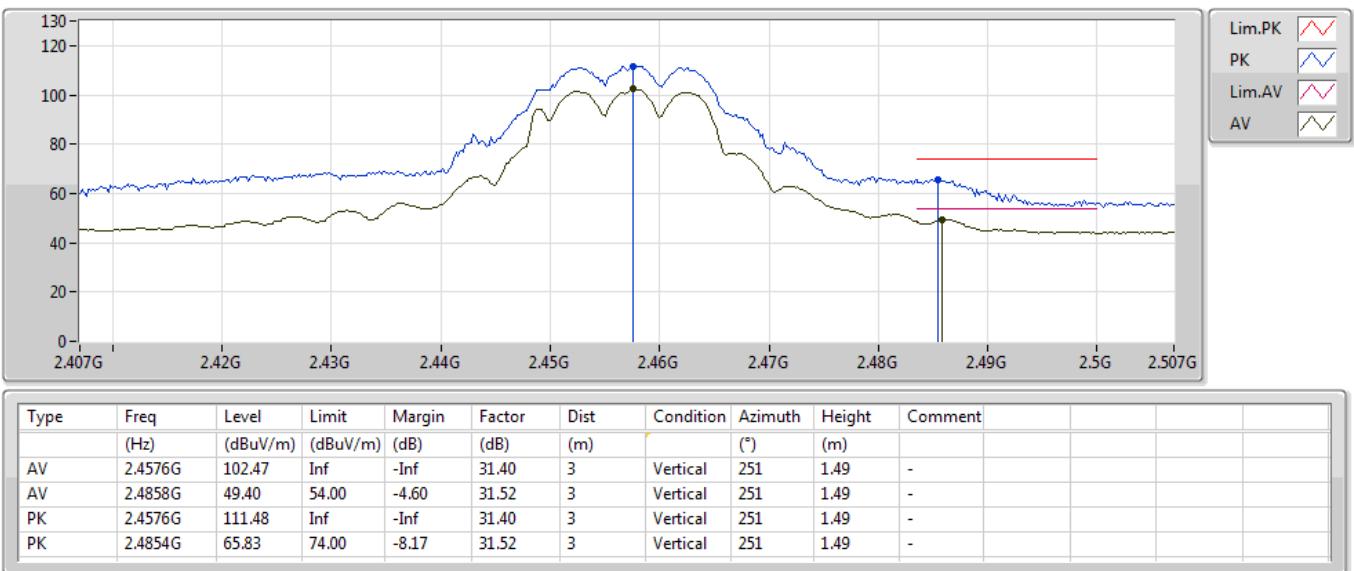
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17/04/2019

2437MHz_TX


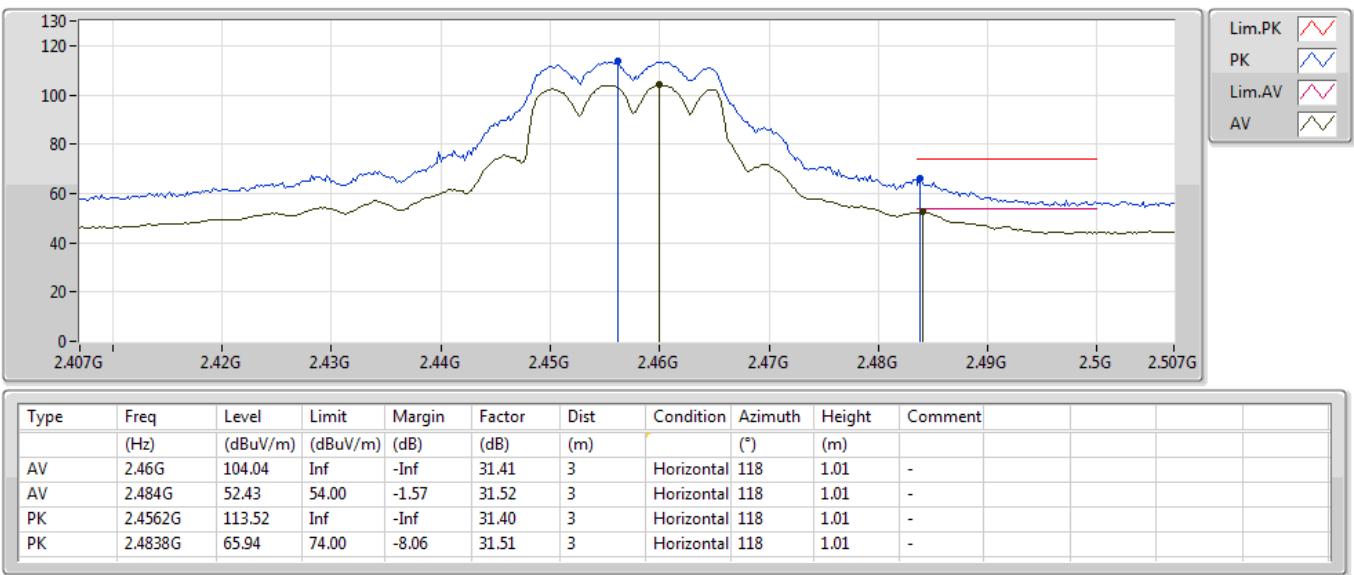
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17/04/2019

2457MHz_TX


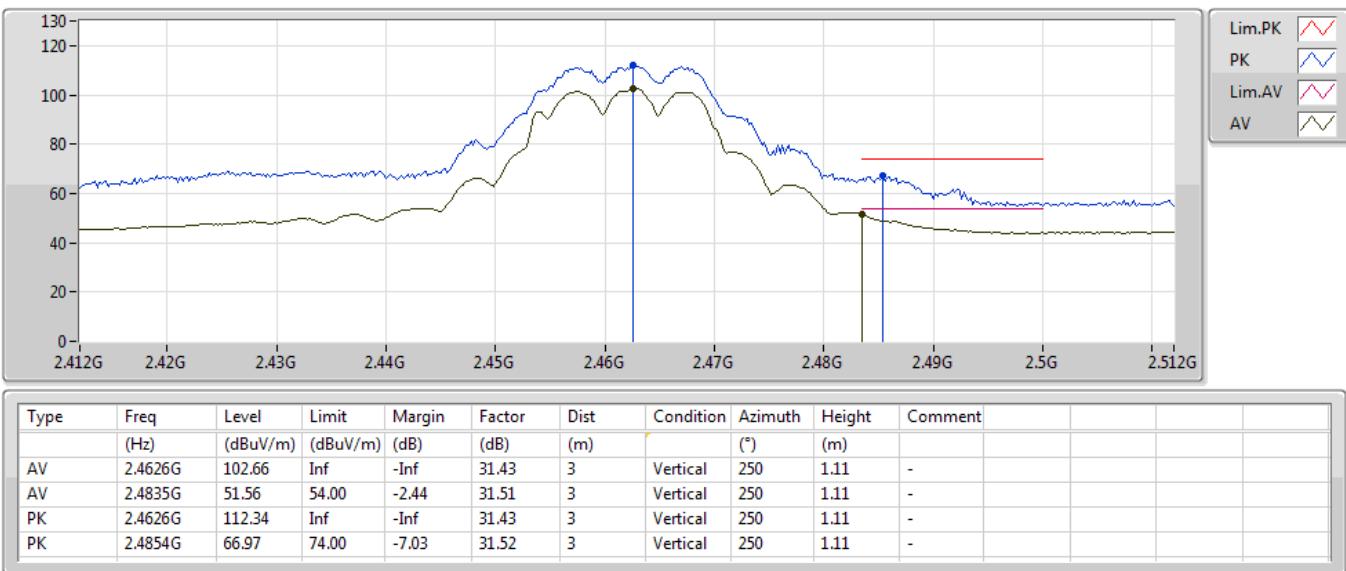
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17/04/2019

2457MHz_TX


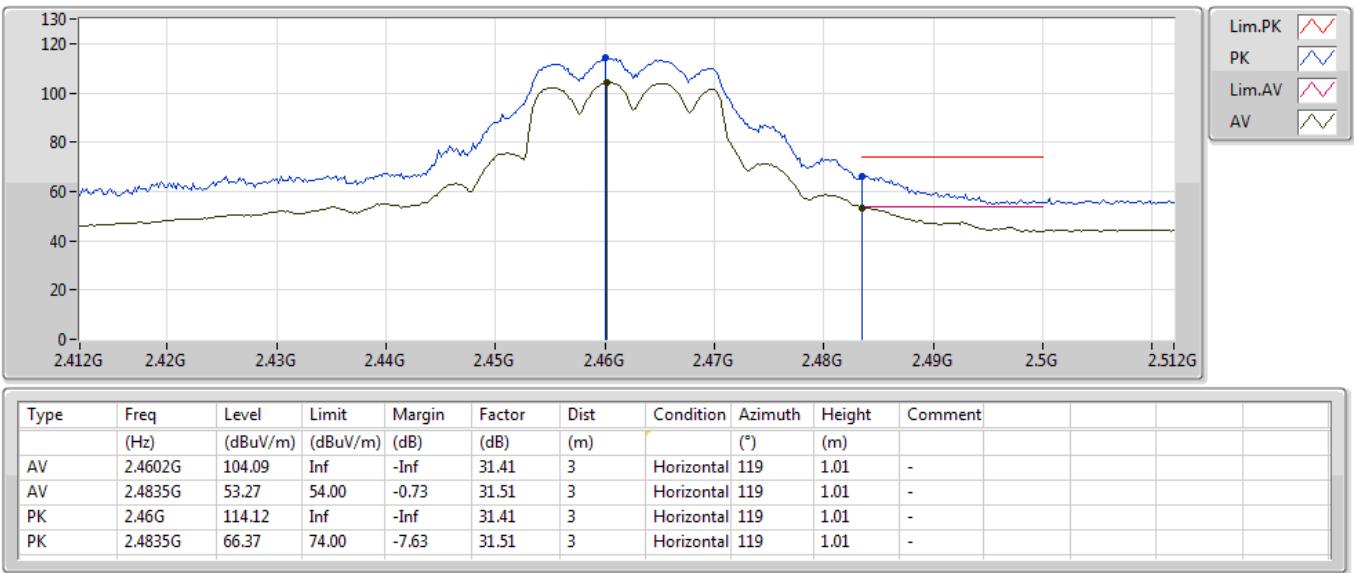
802.11g_Nss1,(6Mbps)_2TX

16/04/2019

2462MHz_TX


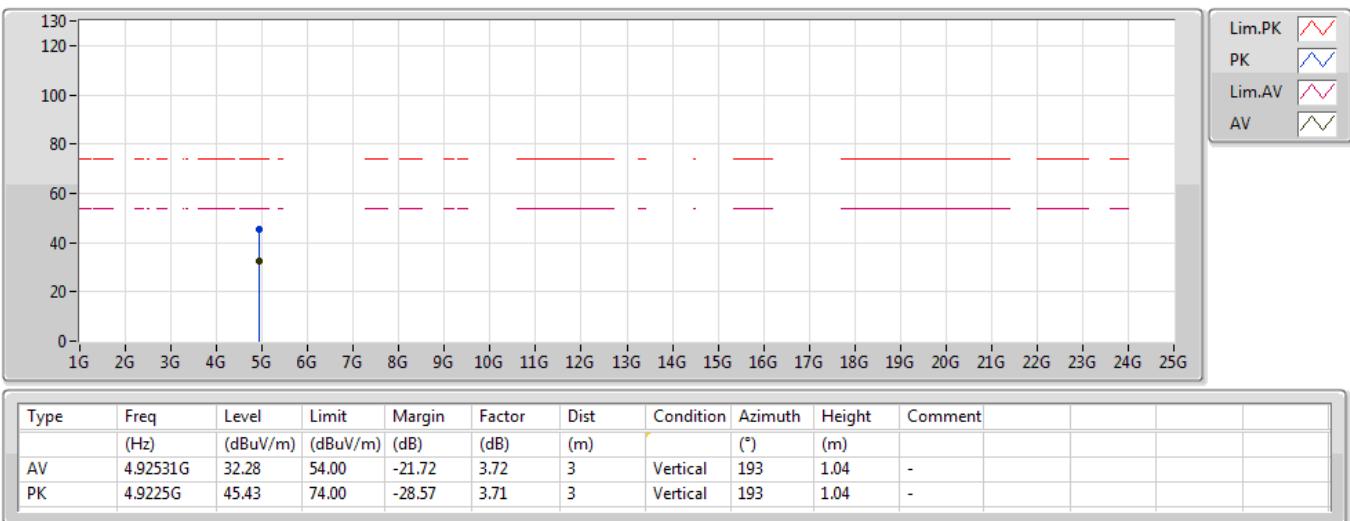
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16/04/2019

2462MHz_TX


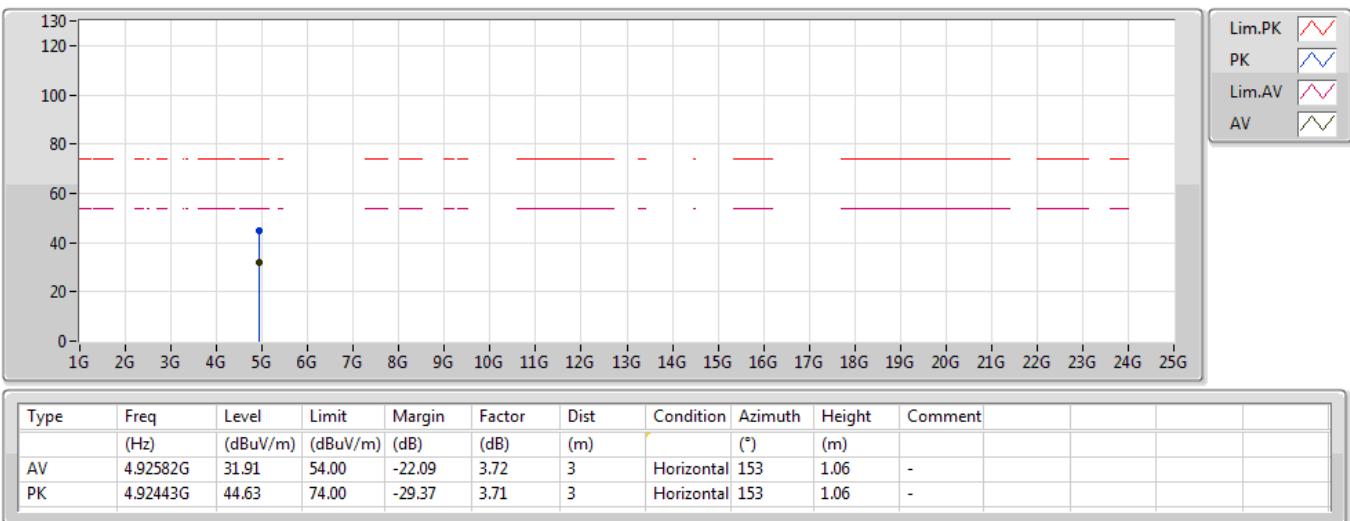
802.11g_Nss1,(6Mbps)_2TX

17/04/2019

2462MHz_TX


802.11g_Nss1,(6Mbps)_2TX

17/04/2019

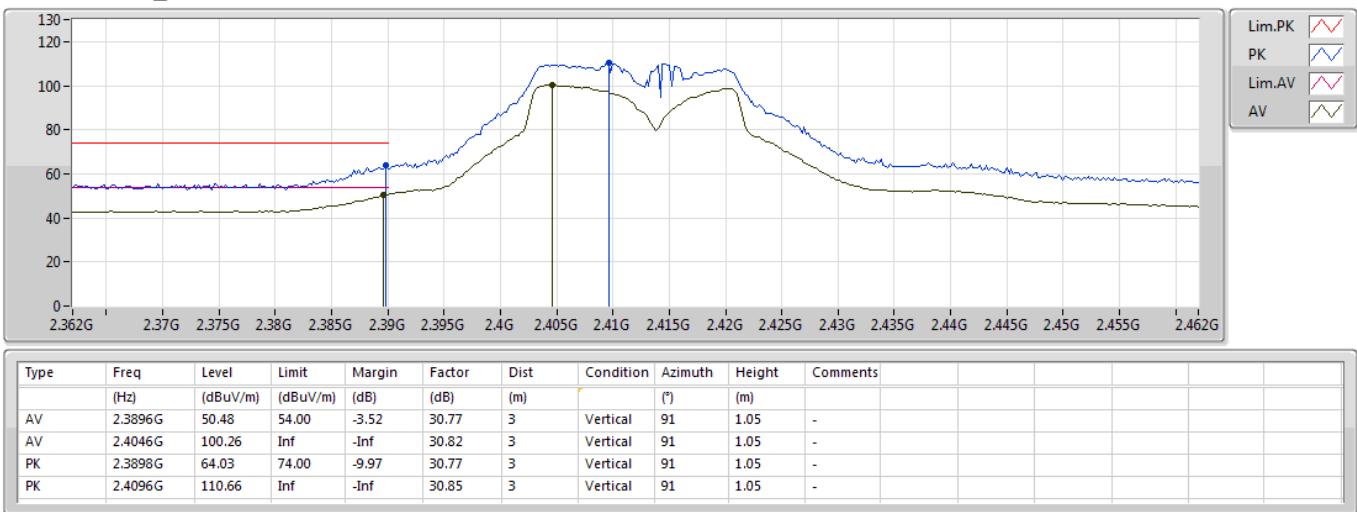
2462MHz_TX




802.11n HT20_Nss1,(MCS0)_2TX

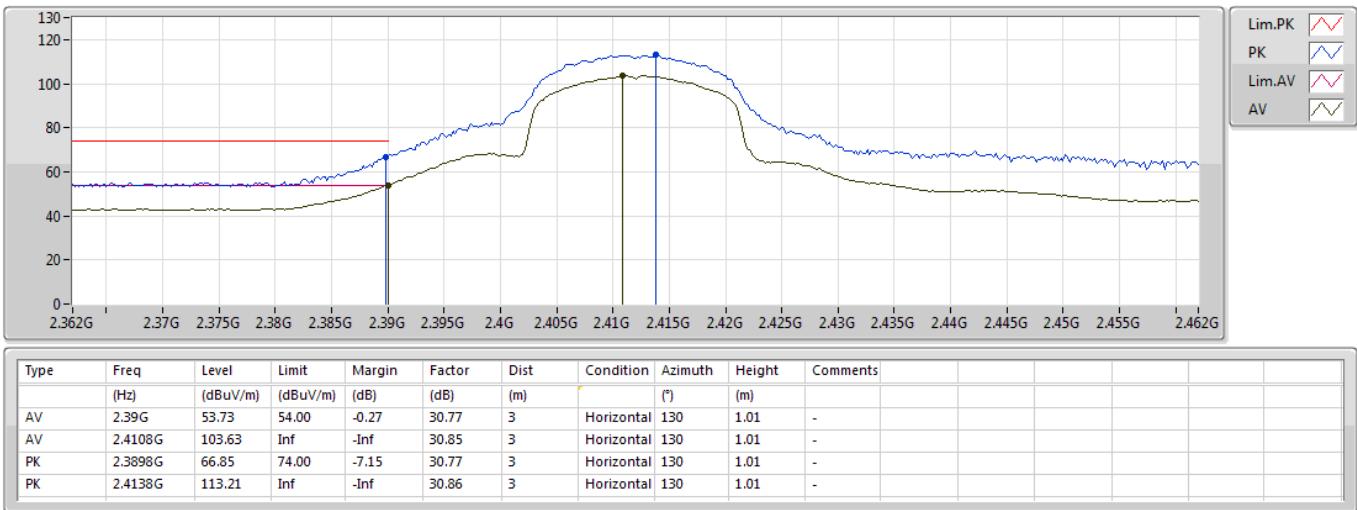
26/12/2018

2412MHz_TX



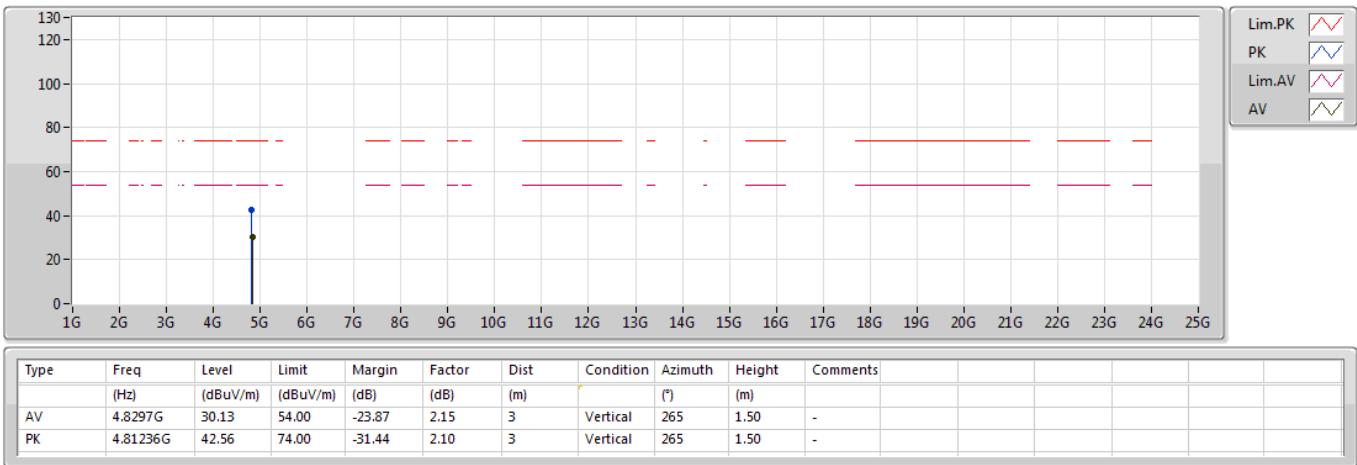
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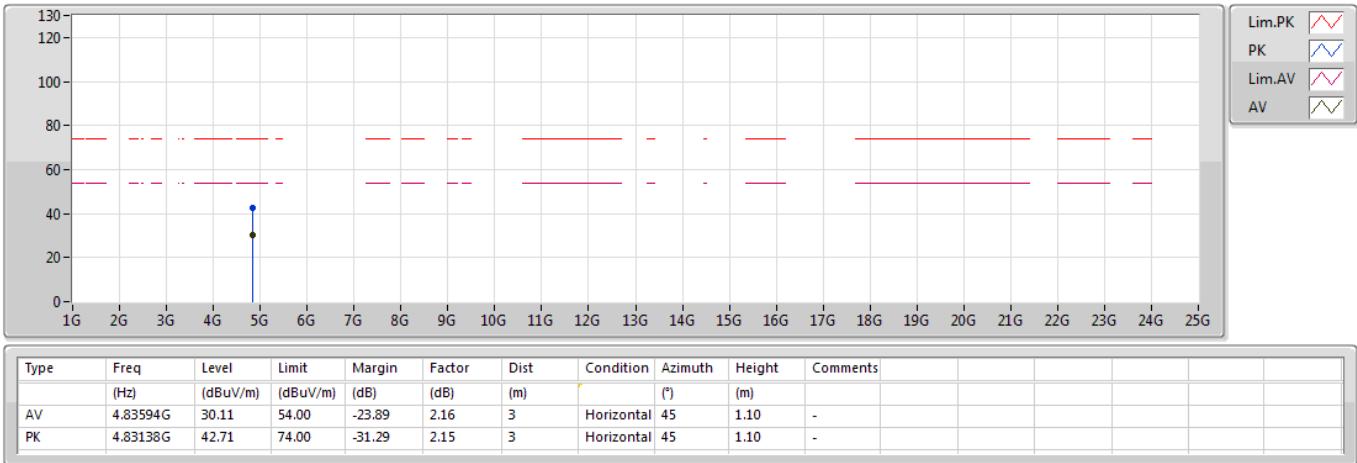
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26/12/2018

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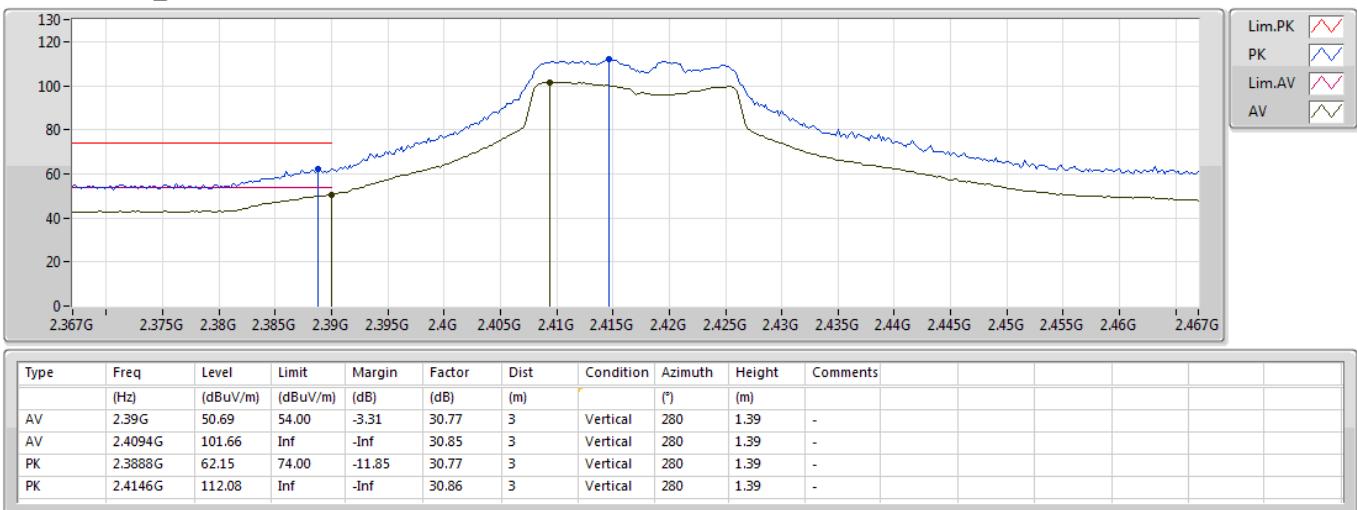
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26/12/2018

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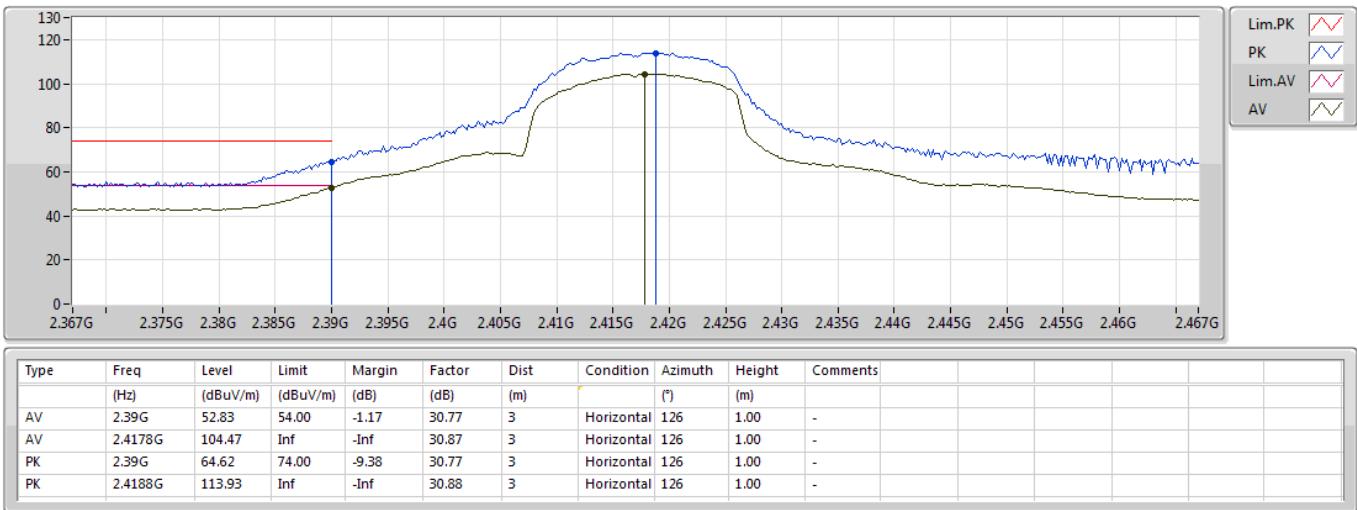
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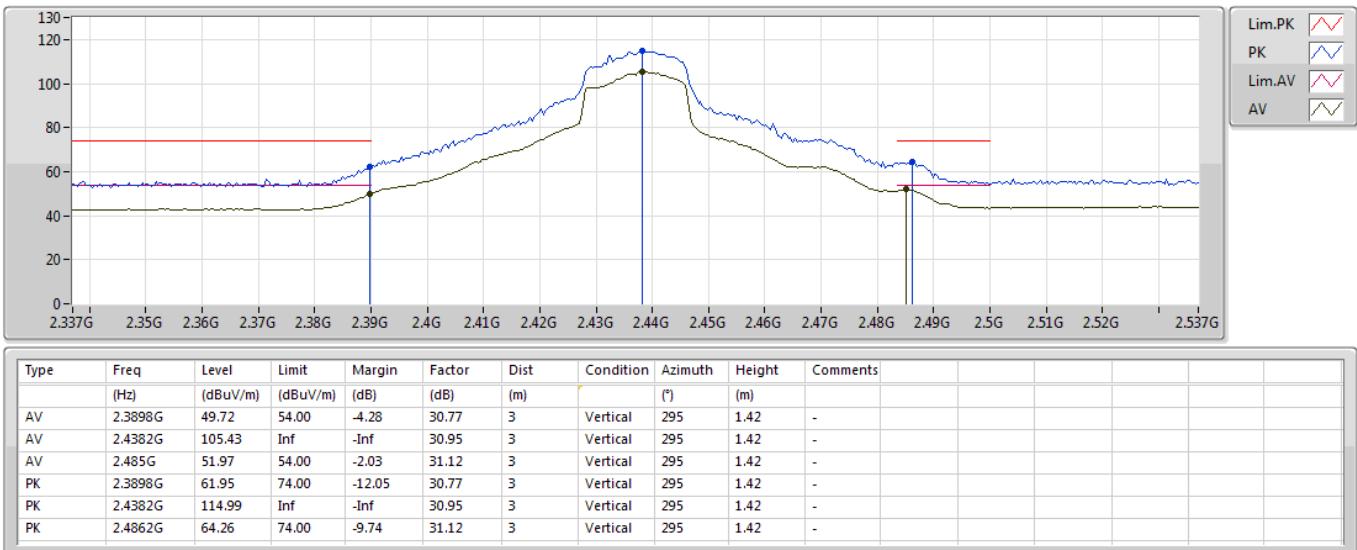
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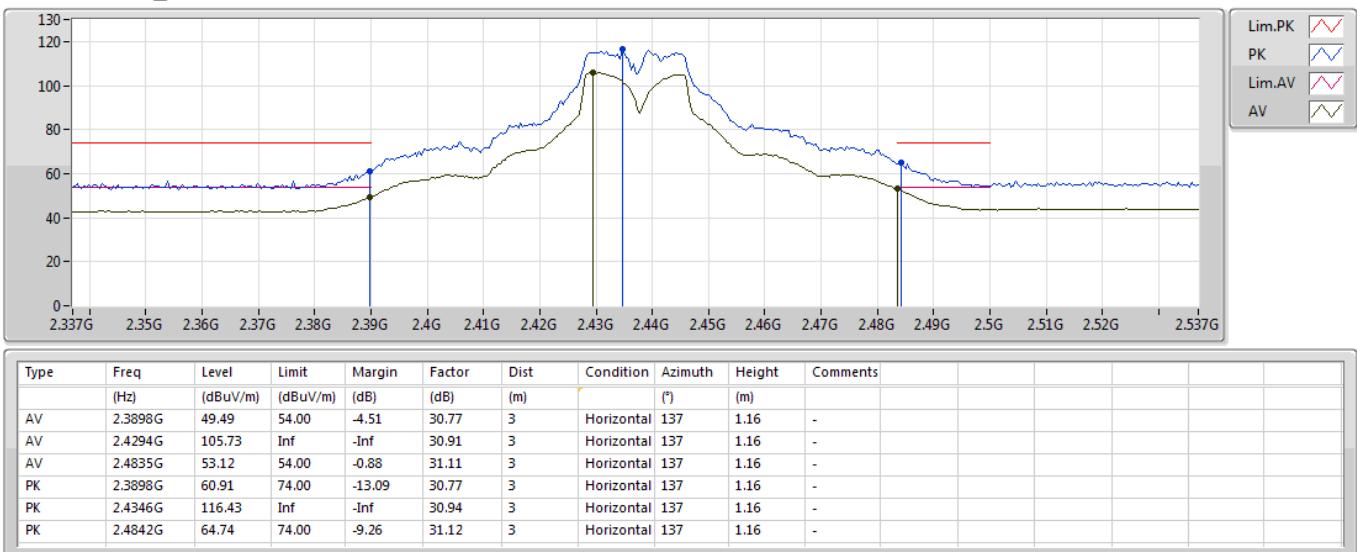
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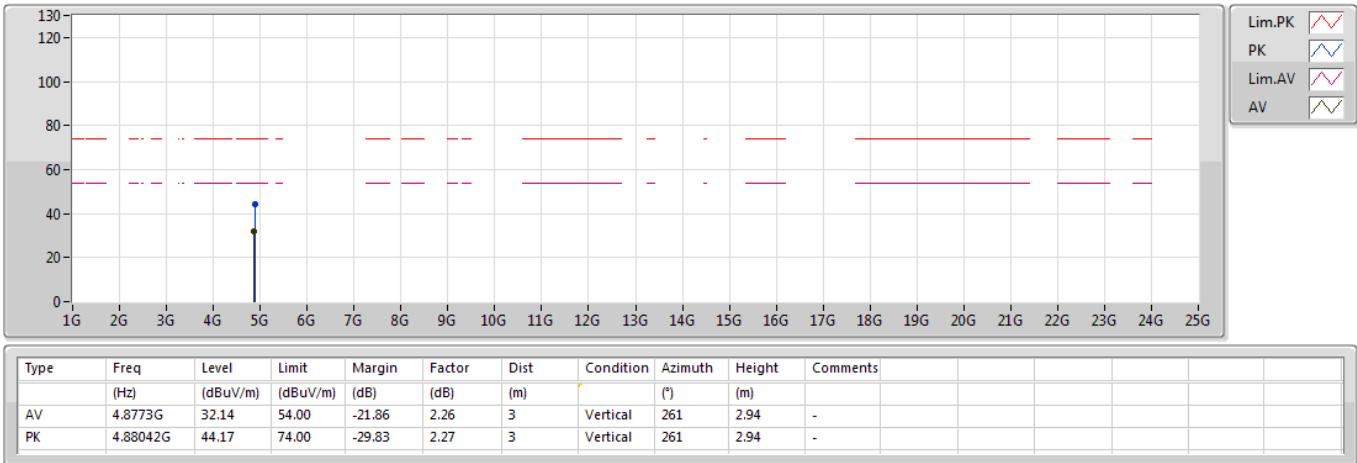
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2437MHz_TX


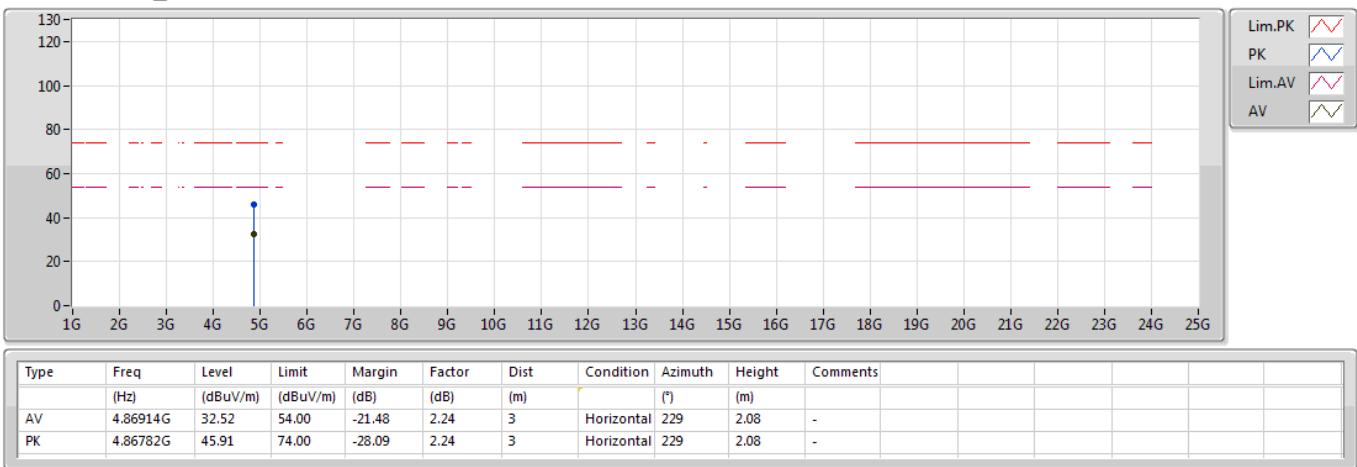
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26/12/2018

2437MHz_TX


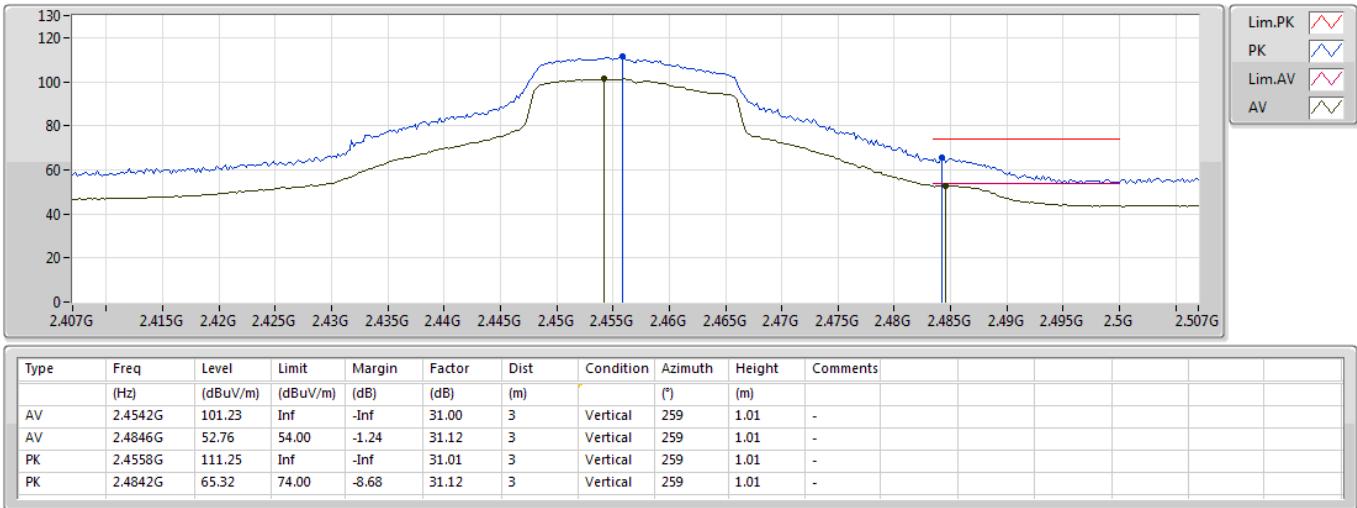
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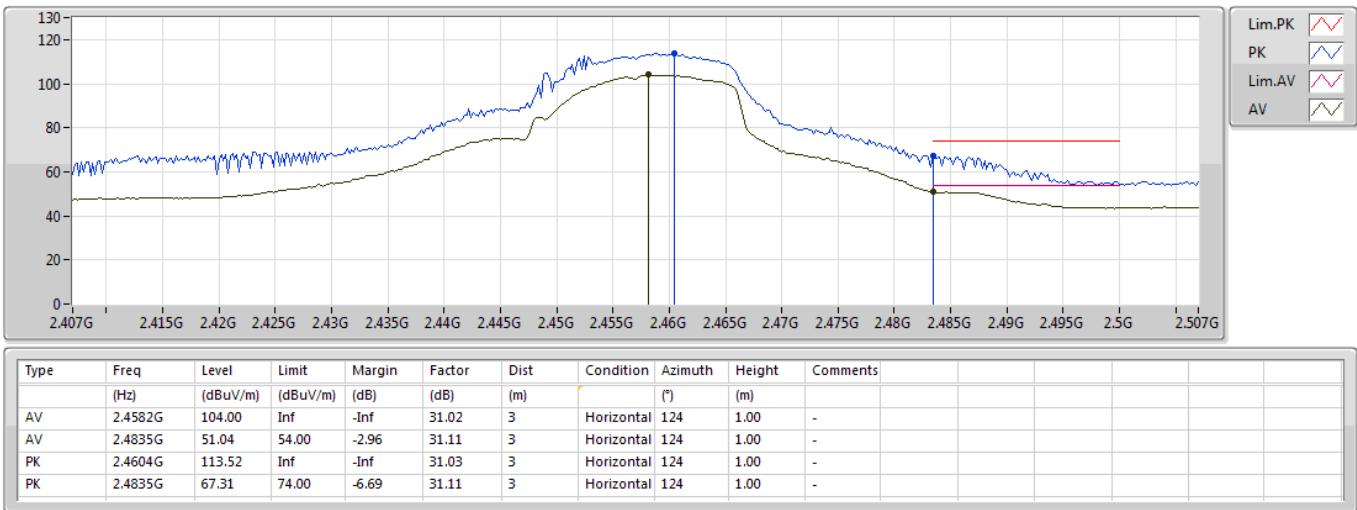
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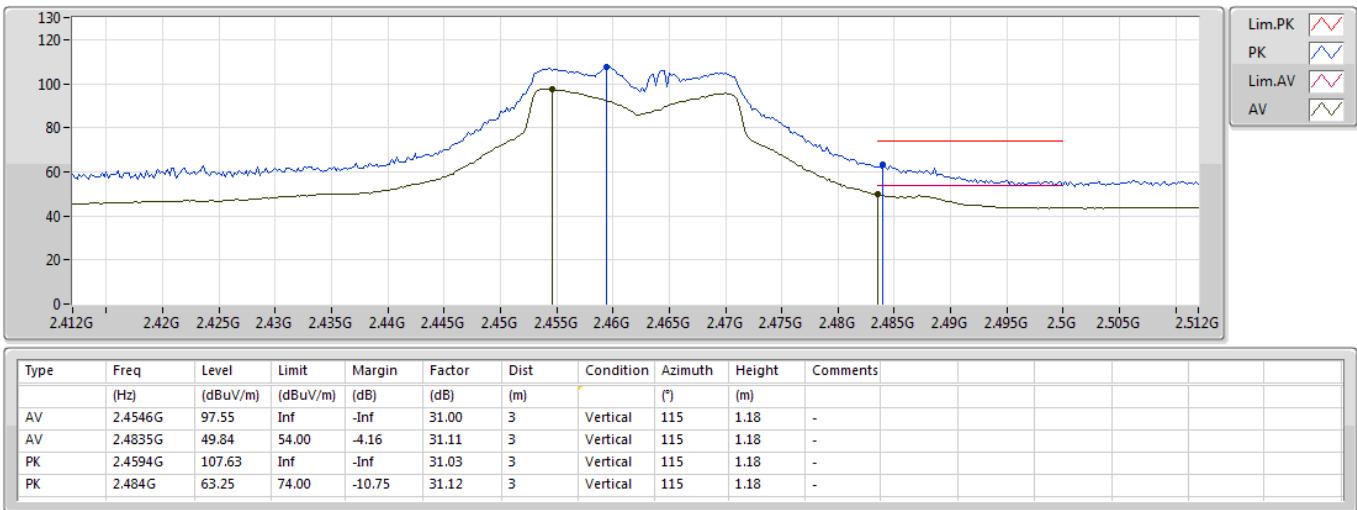
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27/12/2018

2457MHz_TX


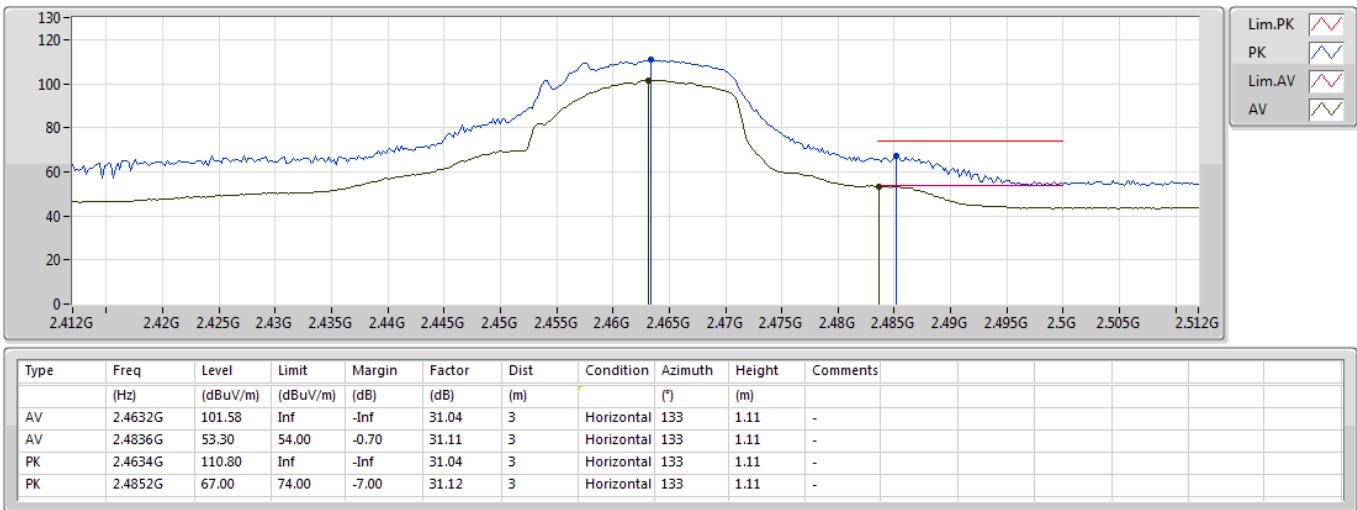
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26/12/2018

2462MHz_TX


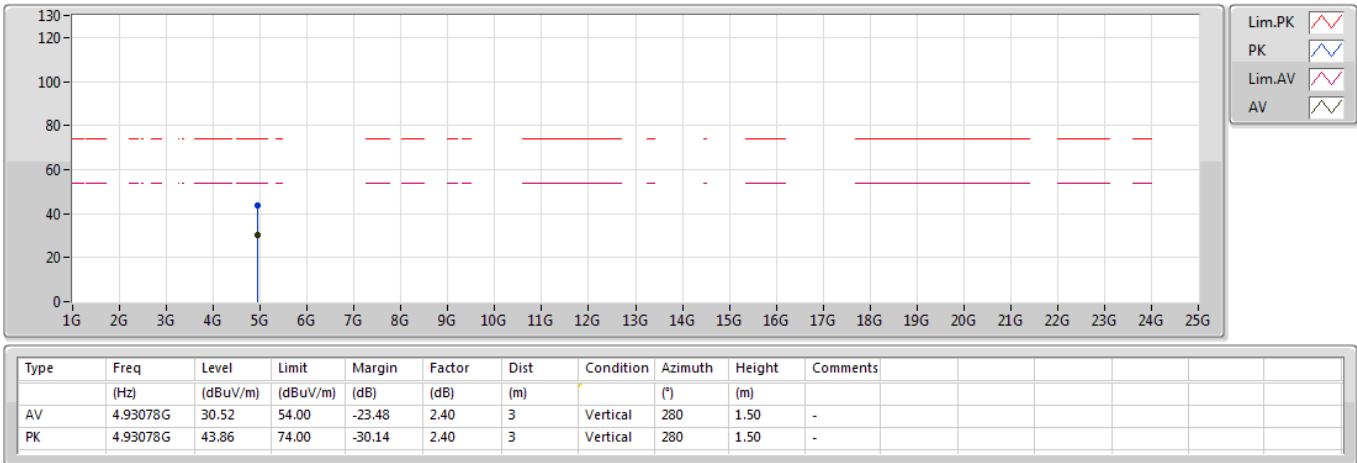
802.11n HT20_Nss1,(MCS0)_2TX

26/12/2018

2462MHz_TX


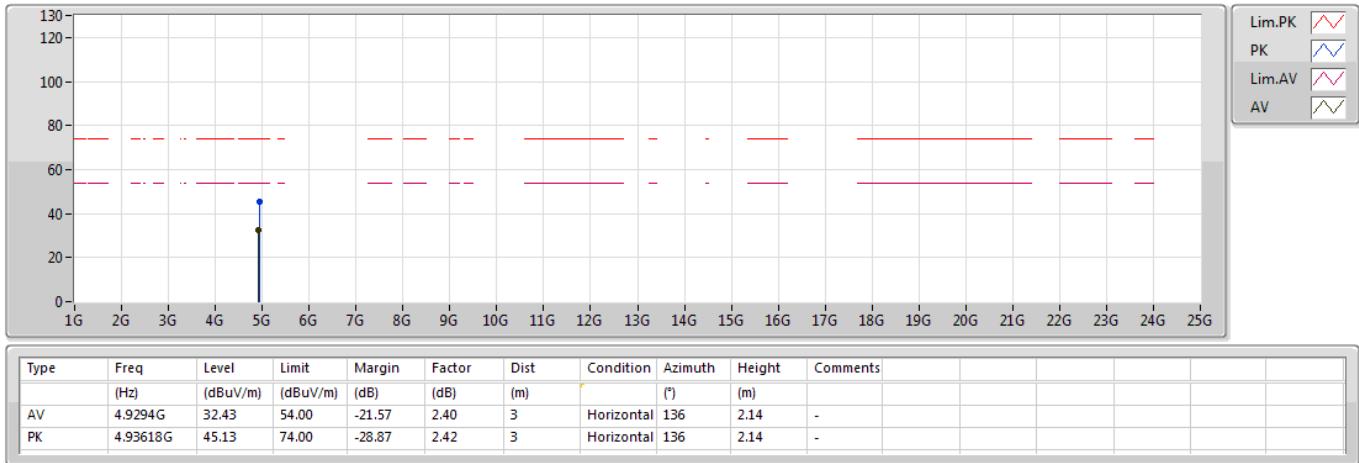
802.11n HT20_Nss1,(MCS0)_2TX

26/12/2018

2462MHz_TX


802.11n HT20_Nss1,(MCS0)_2TX

26/12/2018

2462MHz_TX


Production Setting_SISO				Production Setting_SISO				Production Setting_MIMO				
			Chain 0				Chain 1				Chain 0	Chain 1
2.4G	11b	CH1	17	2.4G	11b	CH1	17	2.4G	11b	CH1	16.5	
		CH6	17			CH6	17			CH6	16.5	
		CH11	17			CH11	17			CH11	16.5	
	11g	CH1	14		11g	CH1	14		11g	CH1	13.5	
		CH6	14			CH6	14			CH6	13.5	
		CH11	14			CH11	14			CH11	13.5	
	HT20	CH1	14		HT20	CH1	14		HT20	CH1	13.5	
		CH6	14			CH6	14			CH6	13.5	
		CH11	14			CH11	14			CH11	13.5	
5G	11a	B1	14.5	5G	11a	B1	14.5	5G	11a	B1	11.5	
		B2	14.5			B2	14.5			B2	14.5	
		B3	14.5			B3	14.5			B4	14.5	
		B4	14.5			B4	14.5			B3	14.5	
	HT20 / VHT20	B1	13.5		HT20 / VHT20	B1	13.5		HT20 / VHT20	B1	10.5	
		B2	13.5			B2	13.5			B2	13.5	
		B3	13.5			B3	13.5			B4	13.5	
		B4	13.5			B4	13.5			B3	13.5	
	HT40 / VHT40	B1	13.5		HT40 / VHT40	B1	13.5		HT40 / VHT40	B1	13.5	
		B2	13.5			B2	13.5			B2	13.5	
		B3	13.5			B3	13.5			B3	13.5	
		B4	13.5			B4	13.5			B4	13.5	
	VHT80	B1	13		VHT80	B1	13		VHT80	B1	13	
		B2	12			B2	12			B2	12	
		B3	13			B3	13			B3	13	
		B4	13			B4	13			B4	13	