



FCC Test Report

FCC ID : H8NGRYPHONAX
Equipment : WIFI Tri-band Mesh
Brand Name : Gryphon
Model Name : GRYPHON AX
Applicant : ASKEY COMPUTER CORPORATION
10F, No. 119, Jiankang Road, Zhonghe
Dist., New Taipei City, Taiwan
Manufacturer : ASKEY COMPUTER CORPORATION
10F, No. 119, Jiankang Road, Zhonghe
Dist., New Taipei City, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Sep. 16, 2020, and testing was started from Dec. 14, 2020 and completed on Dec. 25, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this partial 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

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
-	15.207	AC Power-line Conducted Emissions	Not Required	-
-	15.247(a)	DTS Bandwidth	Not Required	-
3.1	15.247(b)	Maximum Conducted Output Power	PASS	-
-	15.247(e)	Power Spectral Density	Not Required	-
-	15.247(d)	Emissions in Non-restricted Frequency Bands	Not Required	-
3.2	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Remark:

1. Not required means after assessing, test items are not necessary to carry out.
2. This is a variant report by adding BT module. All the test cases were performed on original report which can be referred to Sporton Report Number FR091014AC as appendix D. Based on the original report, the test cases were verified.

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: Debby Hung

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), VHT20, ax(HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax(HEW40)	2422-2452	3-9 [7]

<Non-Beamforming>

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX

<Beamforming>

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	VHT20-BF	20	2TX
2.4-2.4835GHz	VHT40-BF	40	2TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	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.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1-7	Askey	AP5660W	PCB antenna	I-PEX

Ant.	Peak Gain (dBi)							
	2.4G			5G		BT		
	2400MHz	2450MHz	2500MHz	U-NII-1	U-NII-3	2400MHz	2450MHz	2500MHz
1	4.13	4.05	3.94	-	4.10	-	-	-
2	4.13	4.05	3.94	-	4.10	-	-	-
3	-	-	-	3.46	-			
4	-	-	-	3.46	-			
5	-	-	-	3.46	-			
6	-	-	-	3.46	-			
7	-	-	-	-	-	3.25	3.40	2.52

Ant.	Gain (dBi)				
	2.4G			5G	
	2400MHz	2450MHz	2500MHz	U-NII-1	U-NII-3
1	3.36	4.46	4.85	-	5.56
2	3.36	4.46	4.85	-	5.56
3	-	-	-	6.05	-
4	-	-	-	6.05	-
5	-	-	-	6.05	-
6	-	-	-	6.05	-

Note 1: The EUT has seven antennas.

For 2.4GHz function:

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

Ant. 1 and Ant. 2 could transmit/receive simultaneously.

For BT function:

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

Ant. 7 could transmit/receive.

For 5GHz function:

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

Only Ant. 1~2 can be used as transmitting/receiving antenna.

For IEEE 802.11 a/n/ac/ax mode (4TX/4RX)

Only Ant. 3~6 can be used as transmitting/receiving antenna.

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

<Non-Beamforming>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW40_Nss1,(MCS0)_2TX	0.929	0.32	5.446m	300

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

< Beamforming>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.944	0.25	1.986m	1k

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

1.1.5 Spot Check channel list

Mode	2.4G	5G
CDD	AX40 CH2452	AX80 CH5210
TXBF	AX20 CH2412	AX40 CH5190

1.2 Testing Applied Standards

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

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

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

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 662911 D01 v02r01
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Alan Chien	22.8~25.1°C / 56~67%	14/Dec/2020~25/Dec/2020
Radiated	03CH02-HY	Streak Liao	20.2~22.9°C / 52~60%	21/Dec/2020

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Test Software Version	QSPR
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<Non-Beamforming>

Mode	Power Setting
2452MHz	18

Test Software Version	DOS 6.1
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<Non-Beamforming>

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	20

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Maximum Conducted Output Power
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	Y Plane
	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz + WLAN 5GHz Band+Bluetooth
Refer to Sporton Test Report No.: FA091021 for Co-location RF Exposure Evaluation .	

2.4 Accessories

Accessories				
AC Adapter 1 (US Plug)	Brand Name	FLYPOWER	Model Name	PS24L120K2000UD
	Power Rating	I/P: 100-240 Vac, 0.8 A, O/P: 12.0 Vdc, 2.0A		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		
AC Adapter 2 (US Plug)	Brand Name	APD	Model Name	WB-24J12FU
	Power Rating	I/P: 100-240 Vac, 0.7A, O/P: 12 Vdc, 2.0A		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		
RJ45 Cable	Signal Line	1.8 meter, non-shielded cable, w/o ferrite core		

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

2.5 Support Equipment

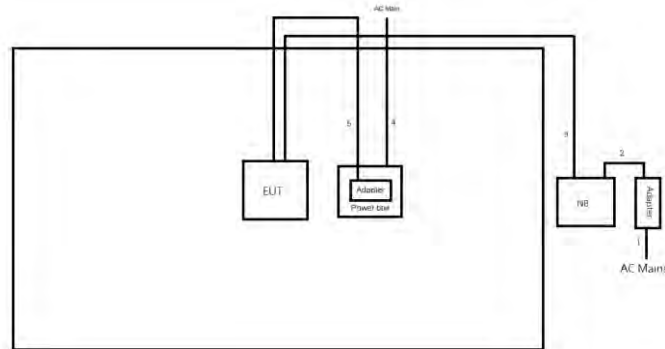
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power Sync	CAT-6E-10	-	-
2	Notebook (Remote)	Dell	PP13S	-	-
3	Adapter for NB (Remote)	Dell	AA90PM111	-	-
4	RJ45 Cable (Remote)	Power Sync	CAT-6E-01	-	-
5	Adapter (Remote)	Sunny	SYS1620-3012-W2	-	-

Note: Support equipment No.5 was provided by customer.

2.6 Test Setup Diagram

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	DC Power Cable	No	1.5	-
2	AC Power Cable	No	1.8	-
3	RJ45 cable	No	10.0	-
4	AC Power cable	No	1.8	-
5	DC Power cable	No	1.5	-

3 Transmitter Test Result

3.1 Maximum Conducted Output Power

3.1.1 Maximum Conducted Output Power Limit

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

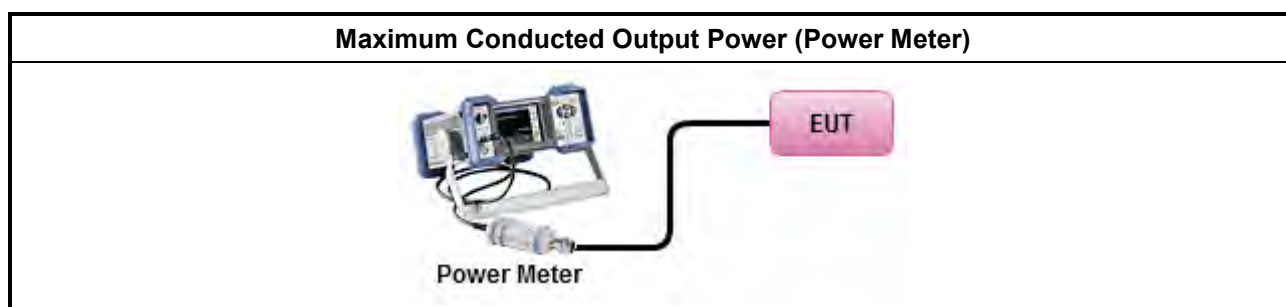
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Refer as Appendix A

3.2 Emissions in Restricted Frequency Bands

3.2.1 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.

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

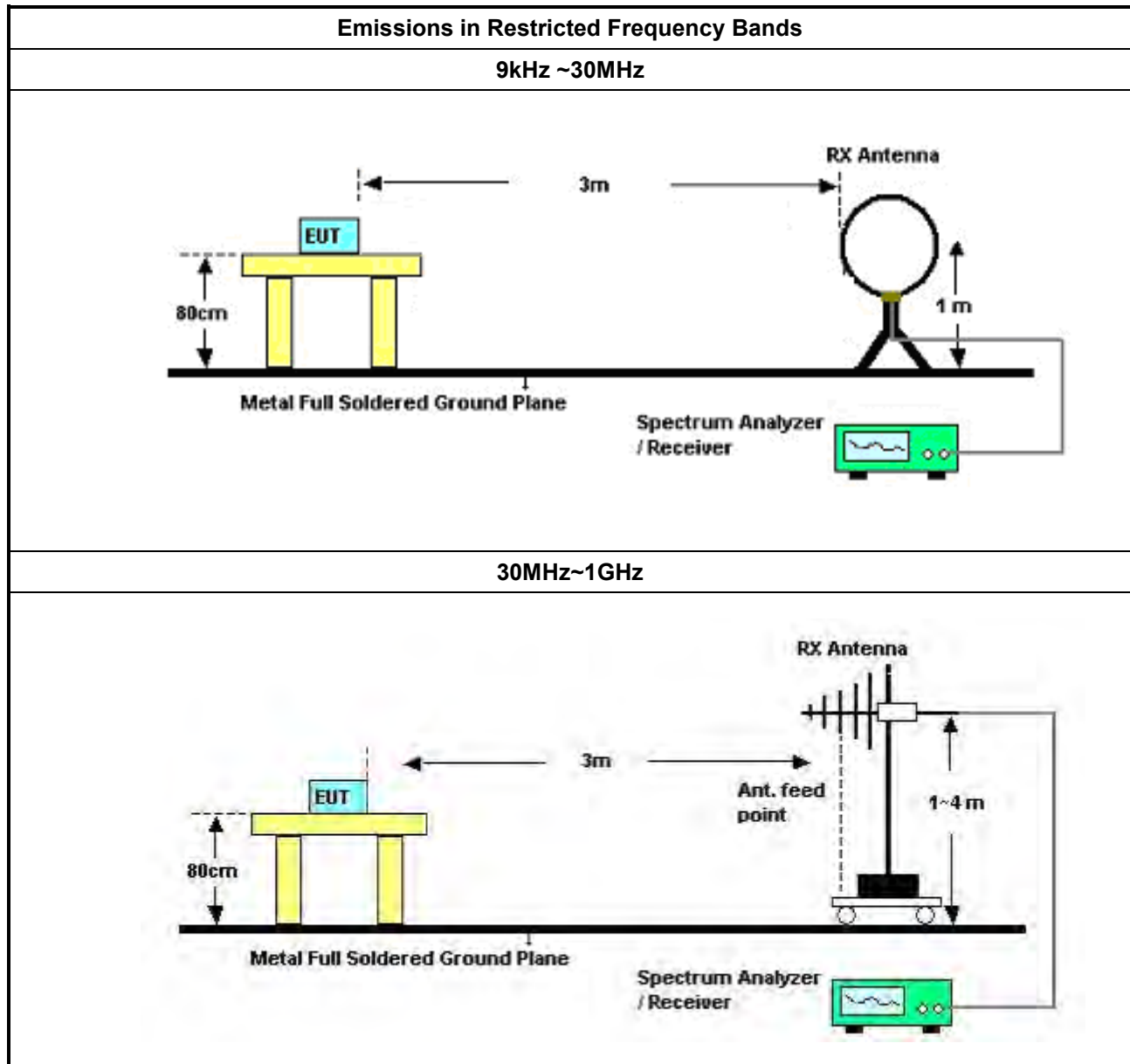
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	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.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

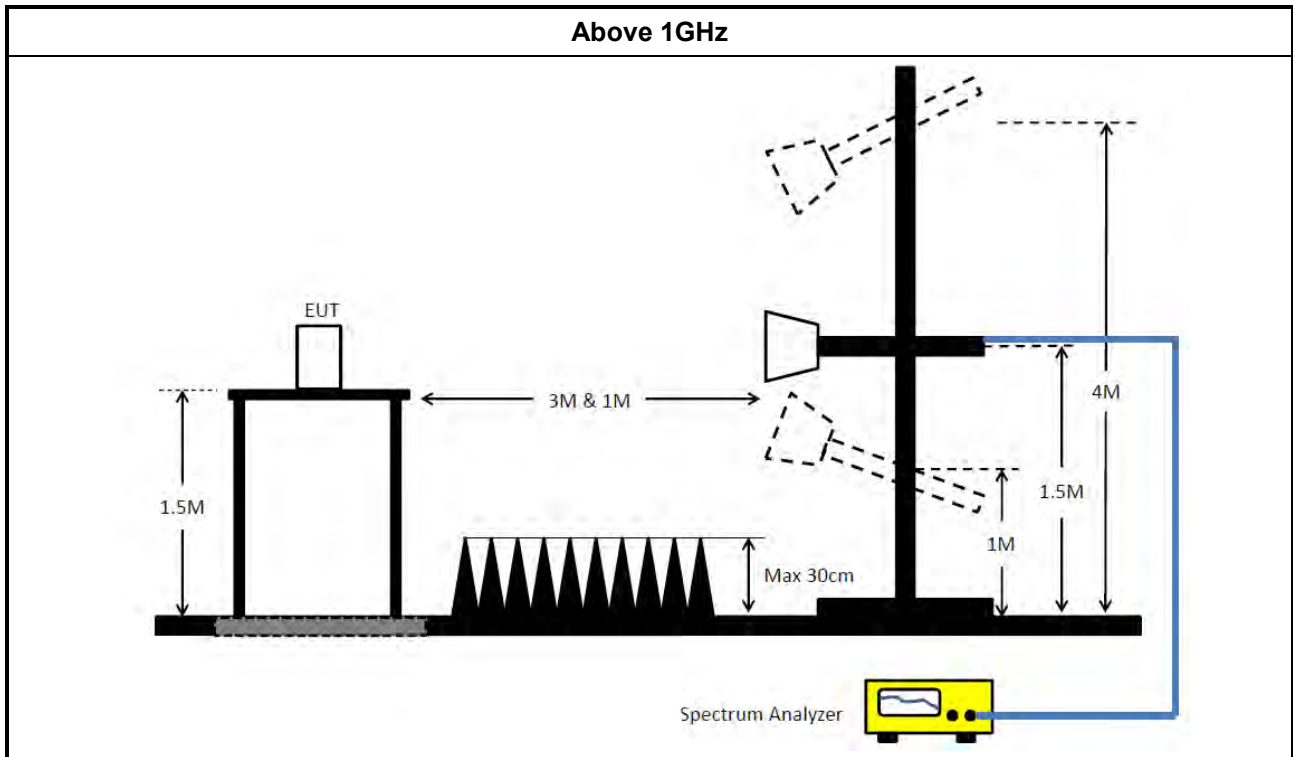
3.2.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.2.5 Test Setup





3.2.6 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.

3.2.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix B

4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	19/Oct/2020	18/Oct/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2022
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	18/Mar/2020	17/Mar/2021
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	18/Mar/2020	17/Mar/2021

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	02/Aug/2020	01/Aug/2021
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	27/Feb/2020	26/Feb/2021
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~18GHz	23/Oct/2020	22/Oct/2021
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	09/Jun/2020	08/Jun/2021
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+80 5192/4	1GHz~40GHz	08/Apr/2020	07/Apr/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW40_Nss1,(MCS0)_2TX	20.95	0.12445



Average Power_Non-Beamforming_spot check

Appendix A.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2452MHz	Pass	4.05	18.24	17.62	20.95	30.00

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



Average Power_ Beamforming_spot check

Appendix A.2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.57	0.11402



Average Power_ Beamforming_spot check

Appendix A.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.52	17.78	17.33	20.57	30.00

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



Summary

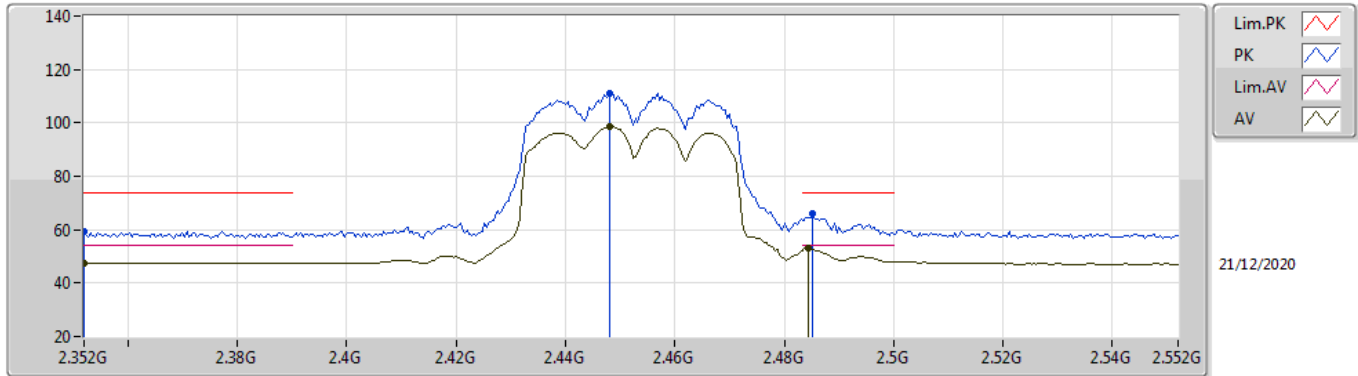
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	2.4836G	53.70	54.00	-0.30	3	Horizontal	151	1.35	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2452MHz	Pass	AV	2.352G	47.57	54.00	-6.43	3	Vertical	199	2.91	-
2452MHz	Pass	AV	2.448G	98.68	Inf	-Inf	3	Vertical	199	2.91	-
2452MHz	Pass	AV	2.4844G	53.36	54.00	-0.64	3	Vertical	199	2.91	-
2452MHz	Pass	PK	2.352G	59.15	74.00	-14.85	3	Vertical	199	2.91	-
2452MHz	Pass	PK	2.448G	110.82	Inf	-Inf	3	Vertical	199	2.91	-
2452MHz	Pass	PK	2.4852G	65.83	74.00	-8.17	3	Vertical	199	2.91	-
2452MHz	Pass	AV	2.3536G	47.54	54.00	-6.46	3	Horizontal	151	1.35	-
2452MHz	Pass	AV	2.4424G	98.94	Inf	-Inf	3	Horizontal	151	1.35	-
2452MHz	Pass	AV	2.4836G	53.70	54.00	-0.30	3	Horizontal	151	1.35	-
2452MHz	Pass	PK	2.3892G	59.89	74.00	-14.11	3	Horizontal	151	1.35	-
2452MHz	Pass	PK	2.442G	112.30	Inf	-Inf	3	Horizontal	151	1.35	-
2452MHz	Pass	PK	2.4864G	67.26	74.00	-6.74	3	Horizontal	151	1.35	-
2452MHz	Pass	AV	4.90157G	29.56	54.00	-24.44	3	Vertical	49	1.00	-
2452MHz	Pass	AV	7.35564G	35.63	54.00	-18.37	3	Vertical	259	2.06	-
2452MHz	Pass	PK	4.90297G	44.09	74.00	-29.91	3	Vertical	49	1.00	-
2452MHz	Pass	PK	7.34238G	49.06	74.00	-24.94	3	Vertical	259	2.06	-
2452MHz	Pass	AV	4.90394G	29.78	54.00	-24.22	3	Horizontal	196	1.22	-
2452MHz	Pass	AV	7.35432G	35.63	54.00	-18.37	3	Horizontal	302	1.90	-
2452MHz	Pass	PK	4.90406G	42.53	74.00	-31.47	3	Horizontal	196	1.22	-
2452MHz	Pass	PK	7.36548G	49.06	74.00	-24.94	3	Horizontal	302	1.90	-

802.11ax HEW40_Nss1,(MCS0)_2TX

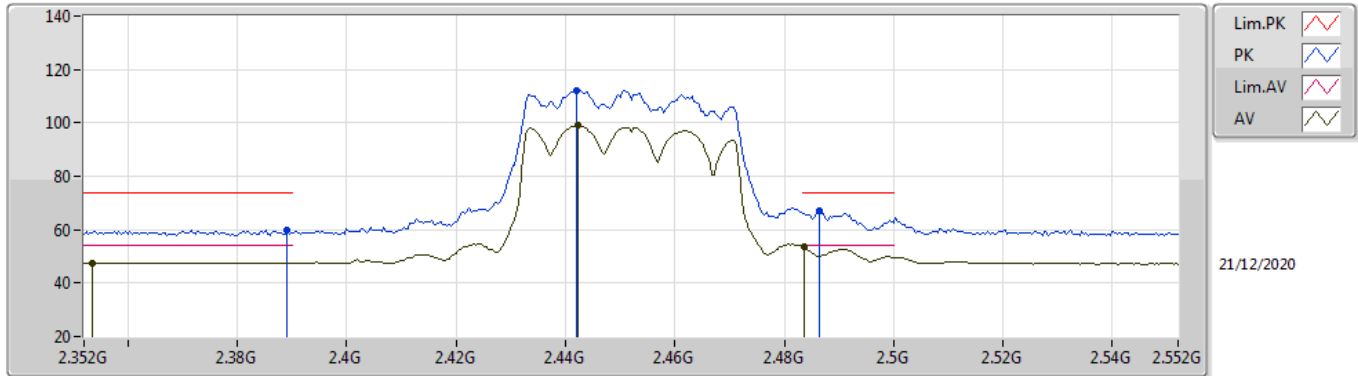
2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.352G	47.57	54.00	-6.43	33.62	3	Vertical	199	2.91	-	13.95	27.70	5.92	-
AV	2.448G	98.68	Inf	-Inf	33.43	3	Vertical	199	2.91	-	65.25	27.41	6.02	-
AV	2.4844G	53.36	54.00	-0.64	33.46	3	Vertical	199	2.91	-	19.90	27.40	6.06	-
PK	2.352G	59.15	74.00	-14.85	33.62	3	Vertical	199	2.91	-	25.53	27.70	5.92	-
PK	2.448G	110.82	Inf	-Inf	33.43	3	Vertical	199	2.91	-	77.39	27.41	6.02	-
PK	2.4852G	65.83	74.00	-8.17	33.46	3	Vertical	199	2.91	-	32.37	27.40	6.06	-

802.11ax HEW40_Nss1,(MCS0)_2TX

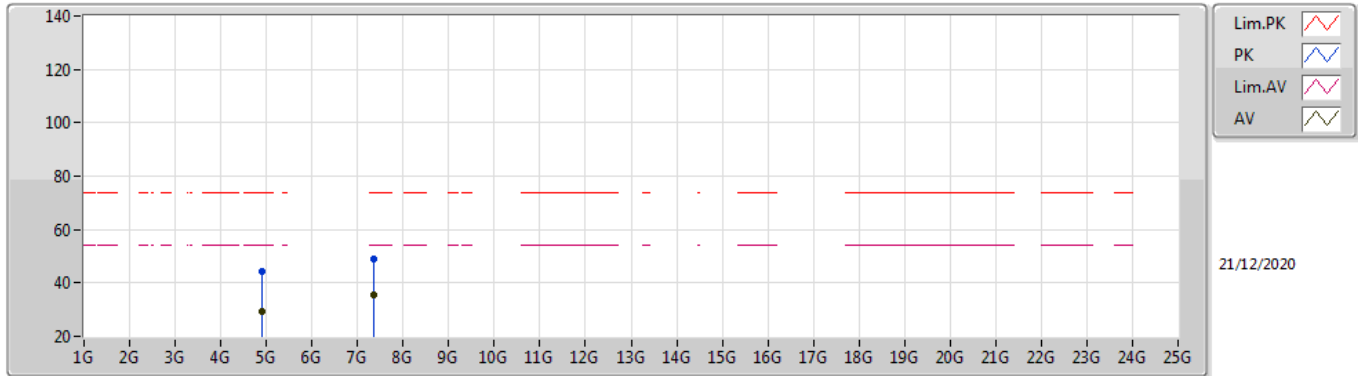
2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3536G	47.54	54.00	-6.46	33.62	3	Horizontal	151	1.35	-	13.92	27.69	5.93	-
AV	2.4424G	98.94	Inf	-Inf	33.44	3	Horizontal	151	1.35	-	65.50	27.43	6.01	-
AV	2.4836G	53.70	54.00	-0.30	33.46	3	Horizontal	151	1.35	-	20.24	27.40	6.06	-
PK	2.3892G	59.89	74.00	-14.11	33.57	3	Horizontal	151	1.35	-	26.32	27.62	5.95	-
PK	2.442G	112.30	Inf	-Inf	33.44	3	Horizontal	151	1.35	-	78.86	27.43	6.01	-
PK	2.4864G	67.26	74.00	-6.74	33.46	3	Horizontal	151	1.35	-	33.80	27.40	6.06	-

802.11ax HEW40_Nss1,(MCS0)_2TX

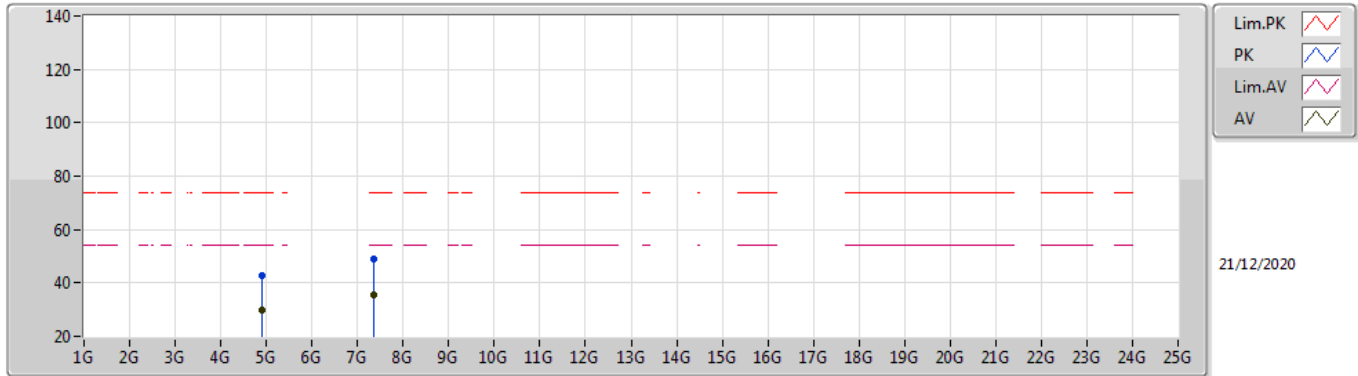
2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.90157G	29.56	54.00	-24.44	5.08	3	Vertical	49	1.00	-	24.48	31.01	8.32	34.25
AV	7.35564G	35.63	54.00	-18.37	11.65	3	Vertical	259	2.06	-	23.98	36.19	10.04	34.58
PK	4.90297G	44.09	74.00	-29.91	5.08	3	Vertical	49	1.00	-	39.01	31.01	8.32	34.25
PK	7.34238G	49.06	74.00	-24.94	11.69	3	Vertical	259	2.06	-	38.20	36.23	10.04	34.58

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.90394G	29.78	54.00	-24.22	5.09	3	Horizontal	196	1.22	-	25.69	31.02	8.32	34.25
AV	7.35432G	35.63	54.00	-18.37	11.65	3	Horizontal	302	1.90	-	23.98	36.19	10.04	34.58
PK	4.90406G	42.53	74.00	-31.47	5.09	3	Horizontal	196	1.22	-	38.13	31.02	8.32	34.25
PK	7.36548G	49.06	74.00	-24.94	11.63	3	Horizontal	302	1.90	-	38.43	36.17	10.04	34.58



Summary

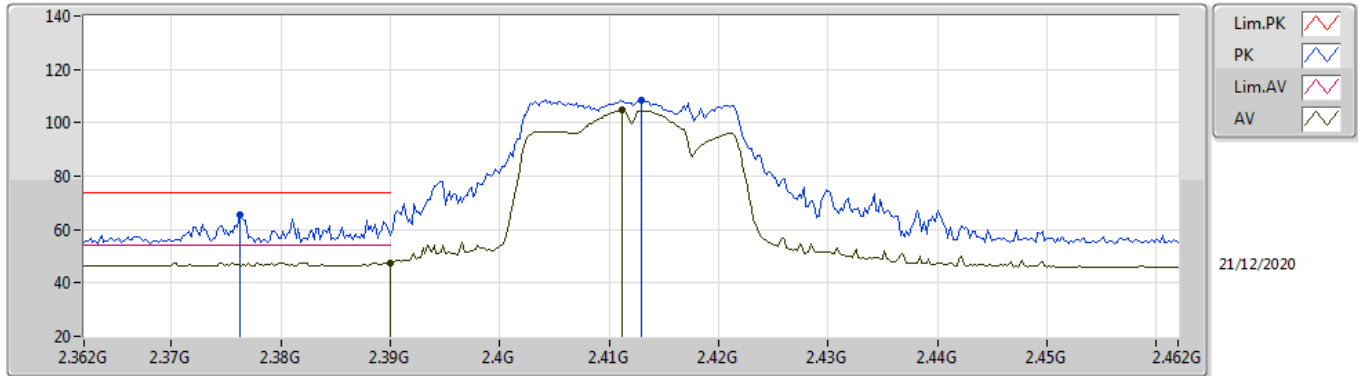
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	PK	2.3884G	71.65	74.00	-2.35	3	Horizontal	51	2.25	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	47.65	54.00	-6.35	3	Vertical	344	3.00	-
2412MHz	Pass	AV	2.4112G	104.71	Inf	-Inf	3	Vertical	344	3.00	-
2412MHz	Pass	PK	2.3762G	65.41	74.00	-8.59	3	Vertical	344	3.00	-
2412MHz	Pass	PK	2.413G	108.50	Inf	-Inf	3	Vertical	344	3.00	-
2412MHz	Pass	AV	2.39G	49.94	54.00	-4.06	3	Horizontal	51	2.25	-
2412MHz	Pass	AV	2.4112G	106.92	Inf	-Inf	3	Horizontal	51	2.25	-
2412MHz	Pass	PK	2.3884G	71.65	74.00	-2.35	3	Horizontal	51	2.25	-
2412MHz	Pass	PK	2.4148G	113.63	Inf	-Inf	3	Horizontal	51	2.25	-
2412MHz	Pass	AV	4.824G	33.03	54.00	-20.97	3	Vertical	115	2.55	-
2412MHz	Pass	PK	4.81758G	42.60	74.00	-31.40	3	Vertical	115	2.55	-
2412MHz	Pass	AV	4.82382G	30.30	54.00	-23.70	3	Horizontal	27	1.57	-
2412MHz	Pass	PK	4.82808G	42.08	74.00	-31.92	3	Horizontal	27	1.57	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

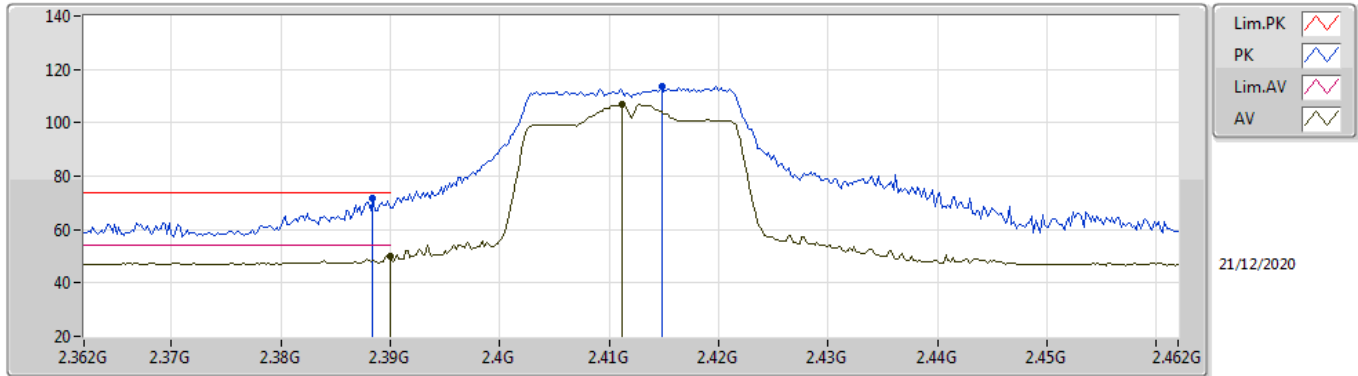
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	47.65	54.00	-6.35	33.57	3	Vertical	344	3.00	-	14.08	27.62	5.95	-
AV	2.4112G	104.71	Inf	-Inf	33.53	3	Vertical	344	3.00	-	71.18	27.56	5.97	-
PK	2.3762G	65.41	74.00	-8.59	33.59	3	Vertical	344	3.00	-	31.82	27.65	5.94	-
PK	2.413G	108.50	Inf	-Inf	33.53	3	Vertical	344	3.00	-	74.97	27.55	5.98	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

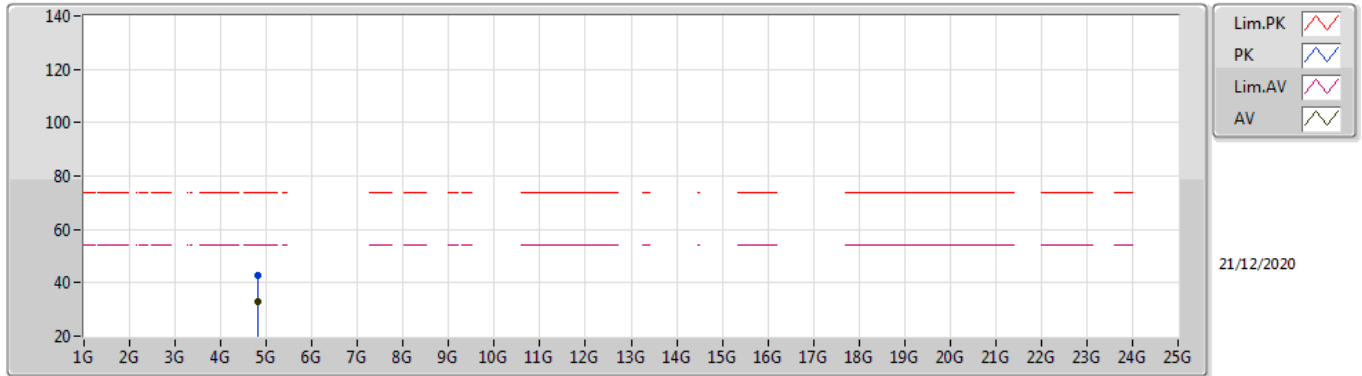
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	49.94	54.00	-4.06	33.57	3	Horizontal	51	2.25	-	16.37	27.62	5.95	-
AV	2.4112G	106.92	Inf	-Inf	33.53	3	Horizontal	51	2.25	-	73.39	27.56	5.97	-
PK	2.3884G	71.65	74.00	-2.35	33.57	3	Horizontal	51	2.25	-	38.08	27.62	5.95	-
PK	2.4148G	113.63	Inf	-Inf	33.52	3	Horizontal	51	2.25	-	80.11	27.54	5.98	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

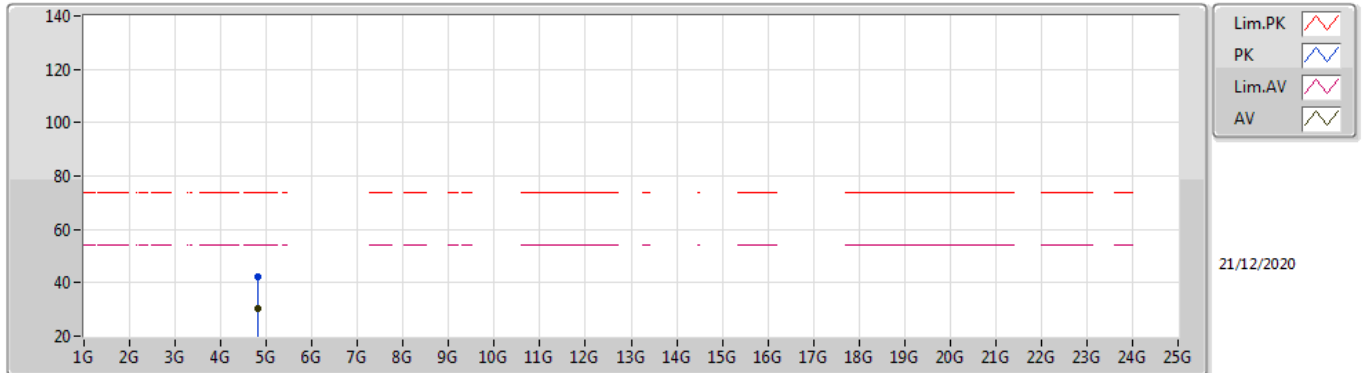
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.824G	33.03	54.00	-20.97	4.99	3	Vertical	115	2.55	-	28.04	31.00	8.27	34.28
PK	4.81758G	42.60	74.00	-31.40	4.95	3	Vertical	115	2.55	-	37.65	30.97	8.26	34.28

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82382G	30.30	54.00	-23.70	4.99	3	Horizontal	27	1.57	-	25.31	31.00	8.27	34.28
PK	4.82808G	42.08	74.00	-31.92	5.00	3	Horizontal	27	1.57	-	37.08	31.01	8.27	34.28

APPENDIX D. ORIGINAL REPORT - FR091014AC



FCC Test Report

FCC ID : H8NAP5660W
Equipment : WiFi Mesh
Brand Name : ASKEY
Model Name : AP5660W-RoHS
Applicant : ASKEY COMPUTER CORPORATION
10F, No. 119, Jiankang Road, Zhonghe Dist.,
New Taipei City, Taiwan
Manufacturer : ASKEY COMPUTER CORPORATION
10F, No. 119, Jiankang Road, Zhonghe Dist.,
New Taipei City, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 21, 2020, and testing was started from Aug. 21, 2020 and completed on Dec. 21, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: Amber Chiu

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), VHT20, ax(HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax(HEW40)	2422-2452	3-9 [7]

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX

Beamforming

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	VHT20-BF	20	2TX
2.4-2.4835GHz	VHT40-BF	40	2TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	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.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1~6	Askey	AP5660W	PCB antenna	I-PEX

Ant.	Peak Gain (dBi)				
	2.4G			5G	
	2400MHz	2450MHz	2500MHz	U-NII-1	U-NII-3
1	4.13	4.05	3.94	-	4.10
2	4.13	4.05	3.94	-	4.10
3	-	-	-	3.46	-
4	-	-	-	3.46	-
5	-	-	-	3.46	-
6	-	-	-	3.46	-

Ant.	Directional Gain (dBi)				
	2.4G			5G	
	2400MHz	2450MHz	2500MHz	U-NII-1	U-NII-3
1	4.52	4.74	3.37	-	5.56
2	4.52	4.74	3.37	-	5.56
3	-	-	-	6.05	-
4	-	-	-	6.05	-
5	-	-	-	6.05	-
6	-	-	-	6.05	-

Note 1: The EUT has six antennas.

For 2.4GHz function:

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

Only Ant. 1~2 can be used as transmitting/receiving antenna.

For 5GHz function:.

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

Only Ant. 1~2 can be used as transmitting/receiving antenna.

For IEEE 802.11 a/n/ac/ax mode (4TX/4RX)

Only Ant. 3~6 can be used as transmitting/receiving antenna.

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11b_Nss1,(1Mbps)_2TX	0.654	1.84	688.75u	3k
802.11g_Nss1,(6Mbps)_2TX	0.951	0.22	1.978m	1k
VHT20_Nss1,(MCS0)_2TX	0.926	0.33	5.429m	300
VHT40_Nss1,(MCS0)_2TX	0.955	0.2	5.429m	300
802.11ax HEW20_Nss1,(MCS0)_2TX	0.964	0.16	5.446m	300
802.11ax HEW40_Nss1,(MCS0)_2TX	0.929	0.32	5.446m	300

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

Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
VHT20-BF_Nss1,(MCS0)_2TX	0.929	0.32	1.758m	1k
VHT40-BF_Nss1,(MCS0)_2TX	0.912	0.4	1.694m	1k
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.944	0.25	1.986m	1k
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.846	0.73	1.96m	1k

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

1.2 Testing Applied Standards

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

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

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

- ◆ KDB 558074 D01 v05r02
- ◆ KDB 662911 D01 v02r01
- ◆ KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	24.6~ 24.9°C / 54~60%	13/Oct/2020
RF Conducted	TH06-HY	Alan Chien	22.8~25.1°C / 56~67%	14/Dec/2020~ 21/Dec/2020
Radiated (Below 1GHz)	03CH02-HY	Daniel Lin	20.8~26.1°C / 53~64%	21/Aug/2020, 12/Oct/2020
Radiated (Above 1GHz)			20.4~27.3°C / 54~64%	10/Dec/2020~ 18/Dec/2020

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Non-Beamforming

Test Software Version	QSPR
-----------------------	------

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	26
2417MHz	26.5
2437MHz	29.5
2457MHz	24.5
2462MHz	25
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	21.5
2417MHz	23
2437MHz	27
2457MHz	23
2462MHz	20.5
VHT20_Nss1,(MCS0)_2TX	-
2412MHz	21
2417MHz	22.5
2437MHz	26
2457MHz	23
2462MHz	19.5
VHT40_Nss1,(MCS0)_2TX	-
2422MHz	20
2427MHz	20.5
2437MHz	21.5
2447MHz	19.5
2452MHz	18
802.11ax HEW20_Nss1,(MCS0)_2TX	-



Mode	Power Setting
2412MHz	21
2417MHz	22.5
2437MHz	26
2457MHz	23
2462MHz	19.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	20
2427MHz	20.5
2437MHz	21.5
2447MHz	19.5
2452MHz	18

Beamforming

Test Software Version	DOS 6.1
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Mode	Power Setting
VHT20-BF_Nss1,(MCS0)_2TX	-
2412MHz	20
2417MHz	22
2437MHz	24
2457MHz	23
2462MHz	21
VHT40-BF_Nss1,(MCS0)_2TX	-
2422MHz	21
2427MHz	21
2437MHz	22
2447MHz	21
2452MHz	21
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	20
2417MHz	22
2437MHz	24
2457MHz	23
2462MHz	21
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	21



Mode	Power Setting
2427MHz	21
2437MHz	22
2447MHz	21
2452MHz	21

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	AC 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	Y Plane
	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz + WLAN 5GHz Band 4
Refer to Sporton Test Report No.: FA091014 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.4 Accessories

Accessories				
AC Adapter 1 (US Plug)	Brand Name	FLYPOWER	Model Name	PS24L120K2000UD
	Power Rating	I/P: 100-240 Vac, 0.8 A, O/P: 12.0 Vdc, 2.0A		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		
AC Adapter 2 (US Plug)	Brand Name	APD	Model Name	WB-24J12FU
	Power Rating	I/P: 100-240 Vac, 0.7A, O/P: 12 Vdc, 2.0A		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		
RJ45 Cable	Signal Line	1.8 meter, non-shielded cable, w/o ferrite core		

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

2.5 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook (Remote)	Dell	PP13S	-	-
2	Adapter for NB (Remote)	Dell	AA90PM111	-	-
3	AC Power Cable (Remote)	Power Sync	TPCMRN0018	-	-
4	Client (Remote)	-	-	-	-
5	RJ-45 Cable (Remote)	Power sync	CAT-6E-10	-	-

Note: Support equipment No.4 was provided by customer.

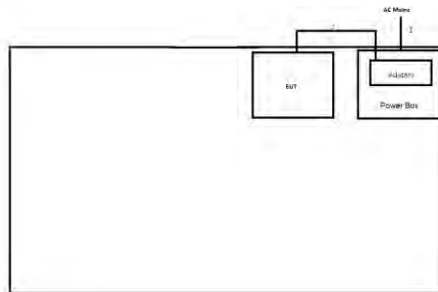
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power Sync	CAT-6E-10	-	-
2	Notebook (Remote)	Dell	PP13S	-	-
3	Adapter for NB (Remote)	Dell	AA90PM111	-	-
4	RJ45 Cable (Remote)	Power Sync	CAT-6E-01	-	-
5	Adapter (Remote)	Sunny	SYS1620-3012-W2	-	-
6	Client (Remote)	-	-	-	-

Note: Support equipment No.5 & 6 was provided by customer.

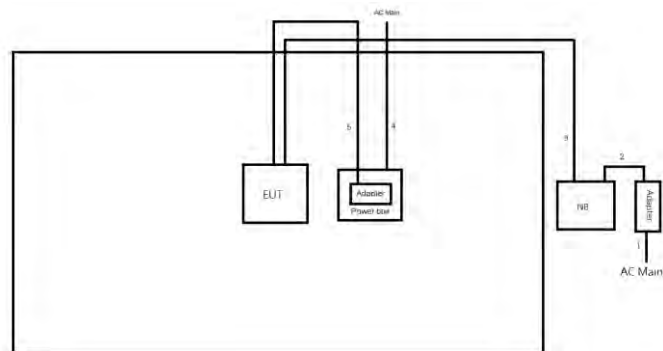
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	RJ45 Cable	No	10.0	-
4	AC Power Cable	No	1.8	-
5	DC Power Cable	No	1.5	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

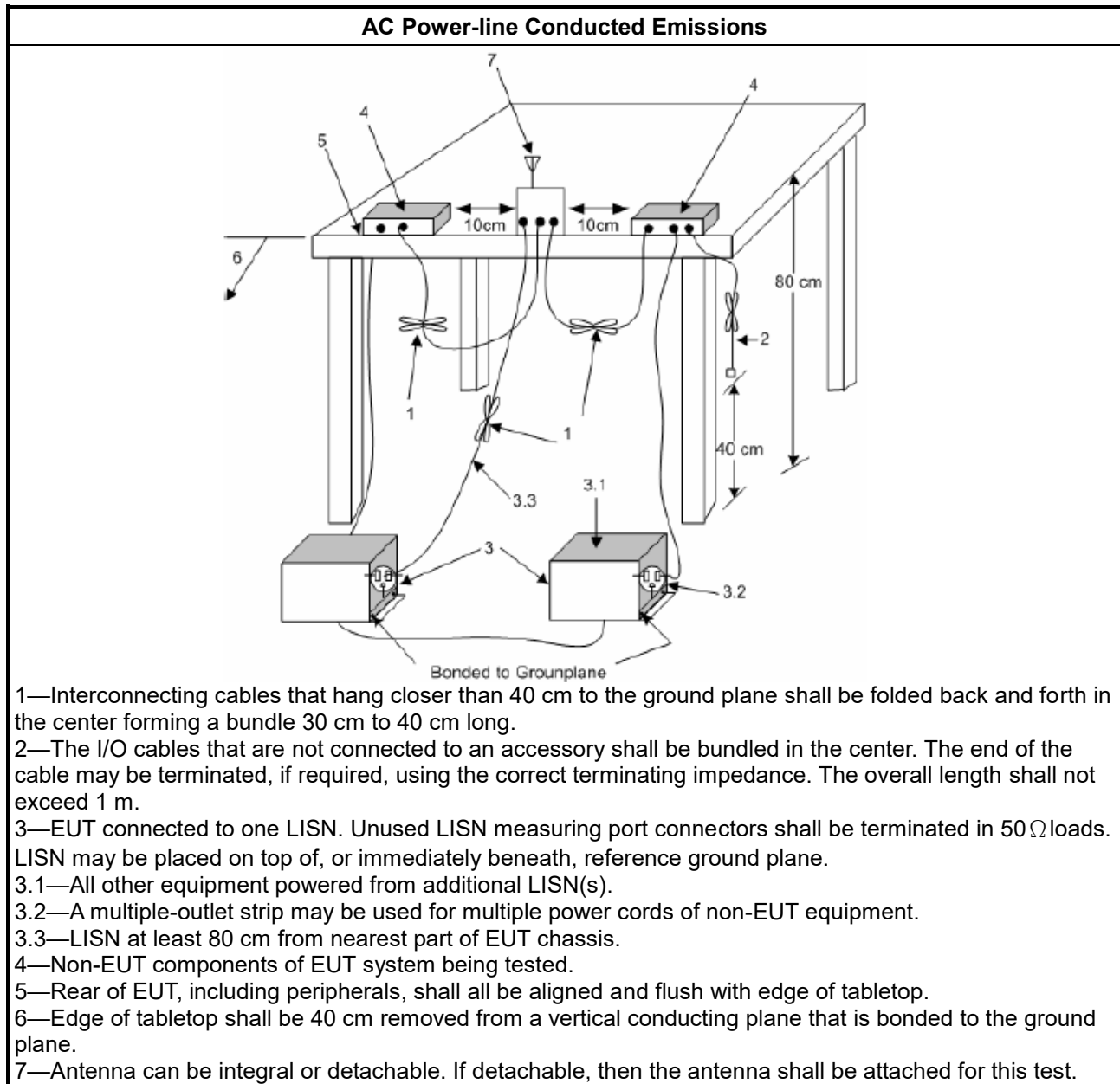
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

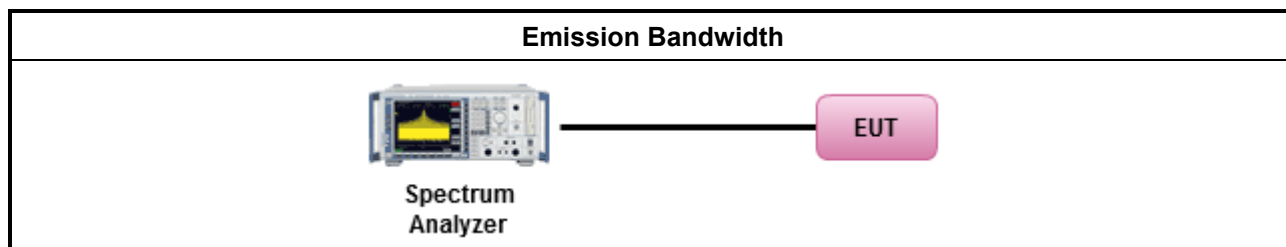
3.2.2 Measuring Instruments

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:
☒	Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	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		
	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)	
	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm	
	Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm	
	Smart antenna system (SAS):	
	- Single beam:	If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam:	If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams:	If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:		
	2400-2483.5 MHz Band	
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)	
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm	
	Smart antenna system (SAS)	
	- Single beam:	$P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam:	$P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams:	$P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.		

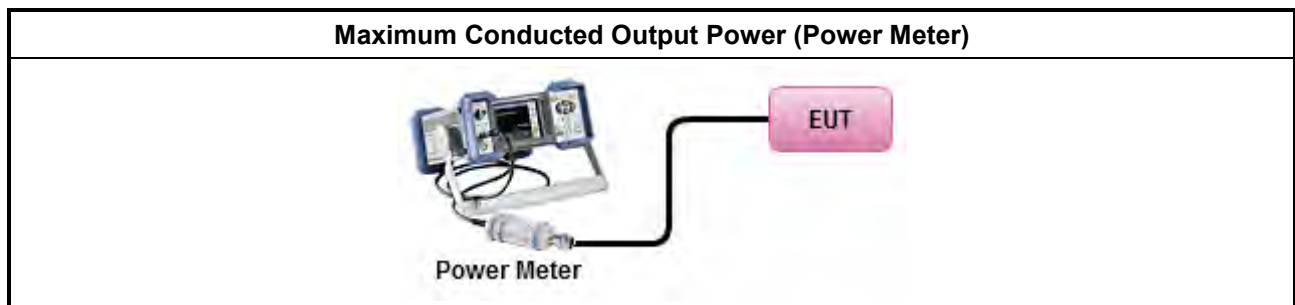
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

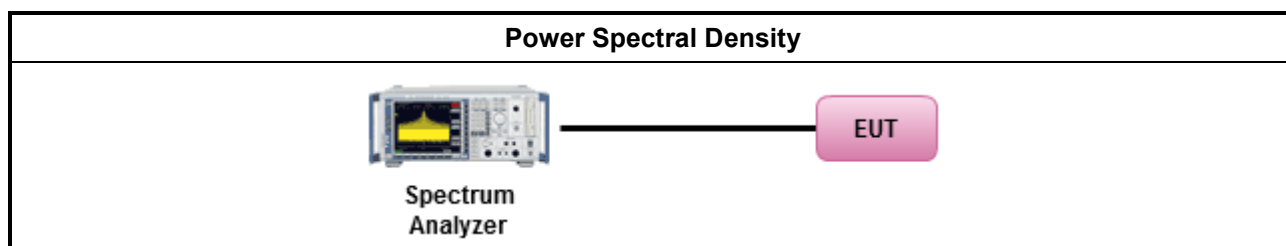
3.4.2 Measuring Instruments

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).
☒	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

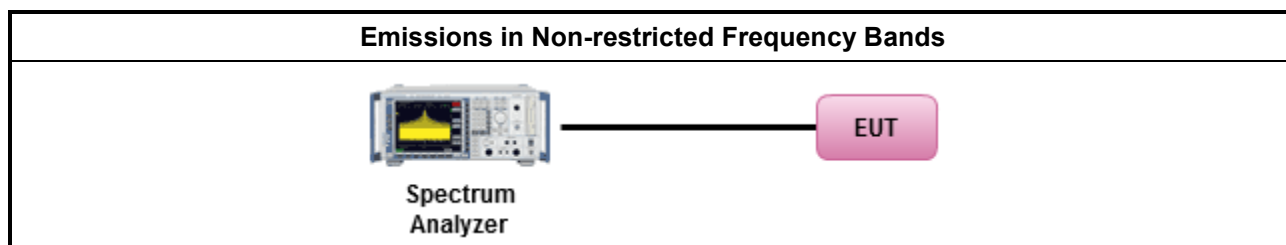
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
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

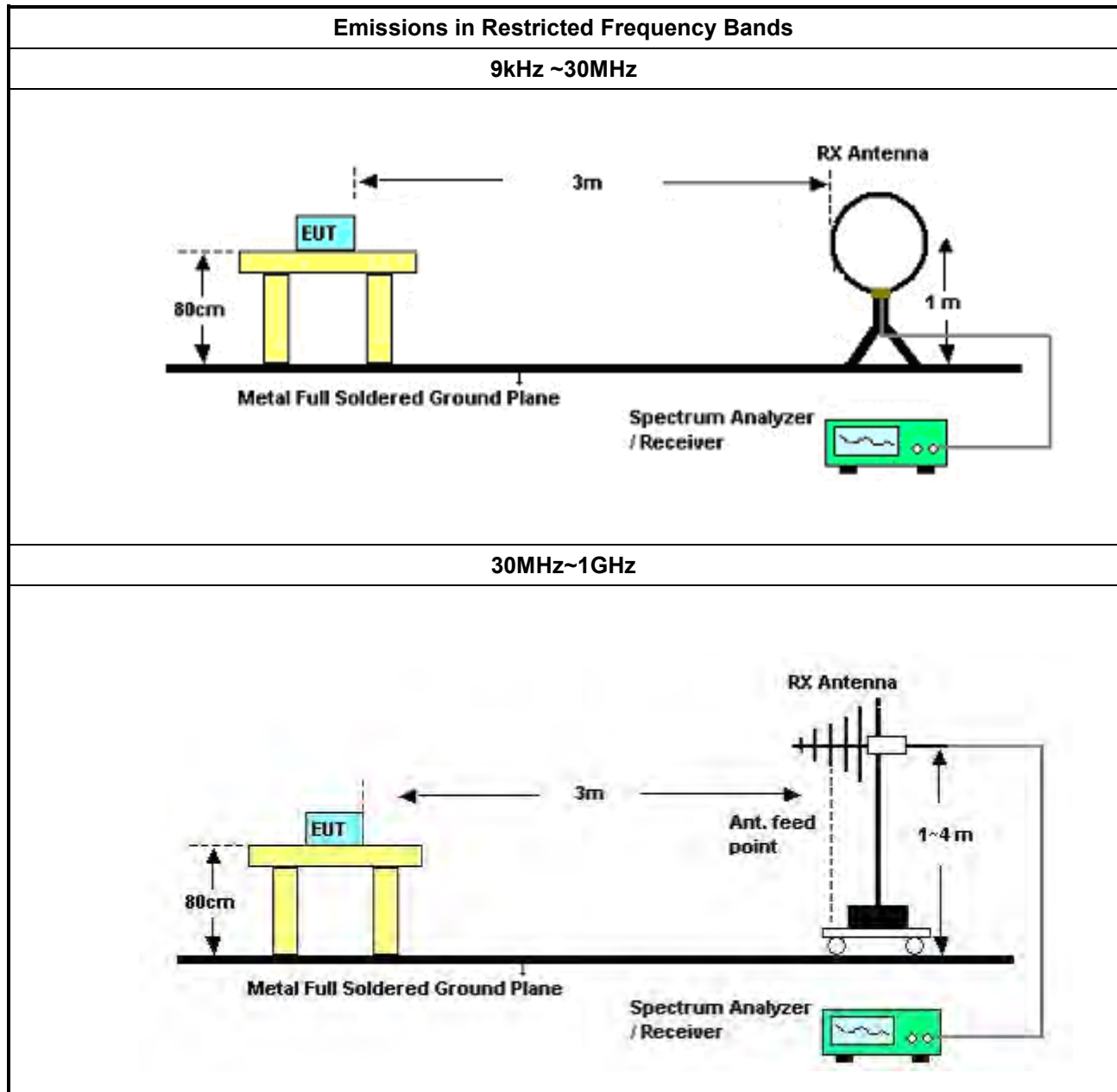
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	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.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

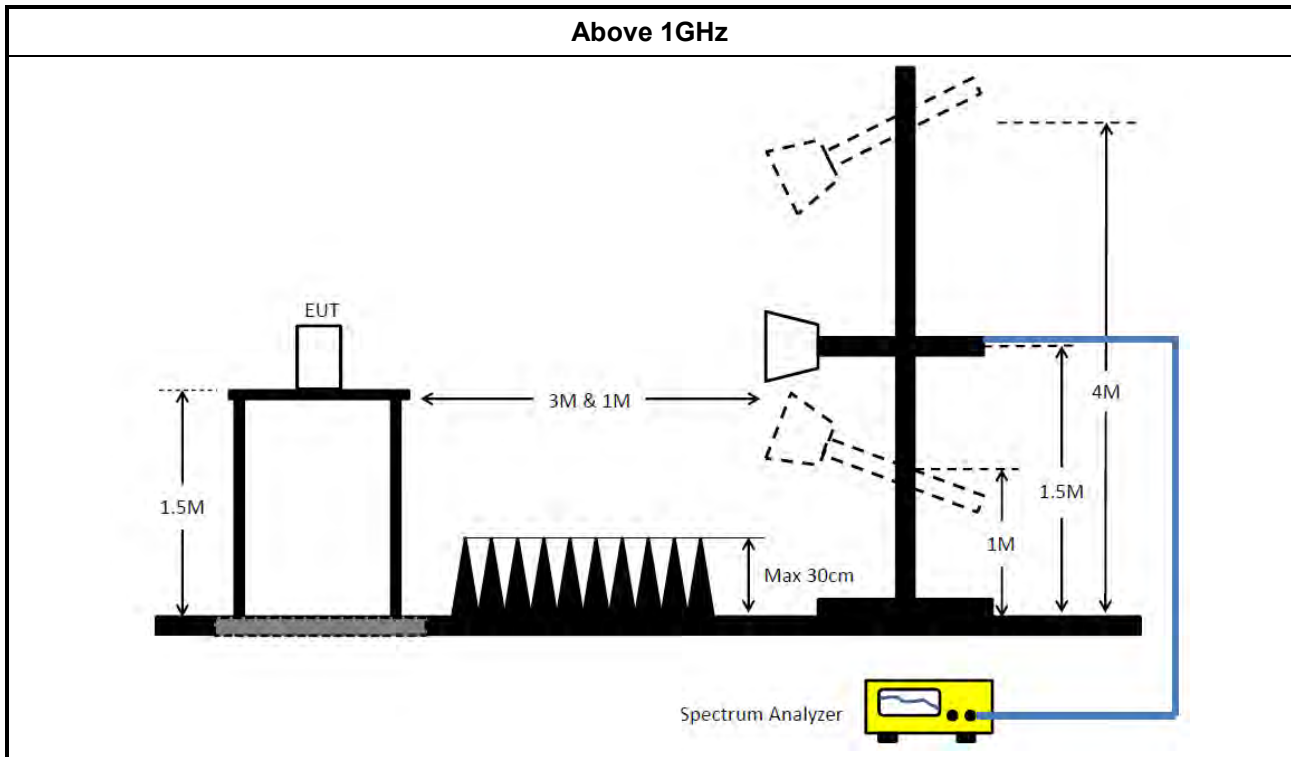
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 Test Setup





3.6.6 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.

3.6.7 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
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	05/Nov/2019	04/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	31/Aug/2020	30/Aug/2021
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	19/Oct/2020	18/Oct/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2022
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	18/Mar/2020	17/Mar/2021
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	18/Mar/2020	17/Mar/2021

**Instrument for Radiated Test**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	04/Aug/2020	03/Aug/2021
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	02/Aug/2020	01/Aug/2021
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	27/Feb/2020	26/Feb/2021
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	30/Jun/2020	29/Jun/2021
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~18GHz	23/Oct/2020	22/Oct/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	28/Feb/2020	27/Feb/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	09/Jun/2020	08/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz~30MHz	20/Jun/2020	19/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB017	30MHz~1GHz	25/Mar/2020	24/Mar/2021
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+80 5192/4	1GHz~40GHz	08/Apr/2020	07/Apr/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2020	15/Mar/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021



Conducted Emissions at Powerline_Non-Beamforming

Appendix A.1

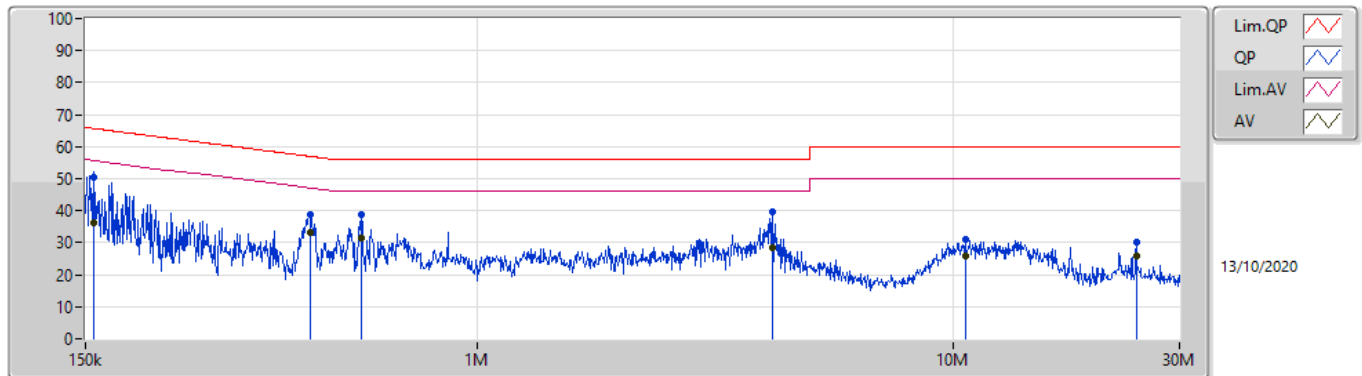
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	446.062k	33.12	46.96	-13.84	Line

Mode Configure

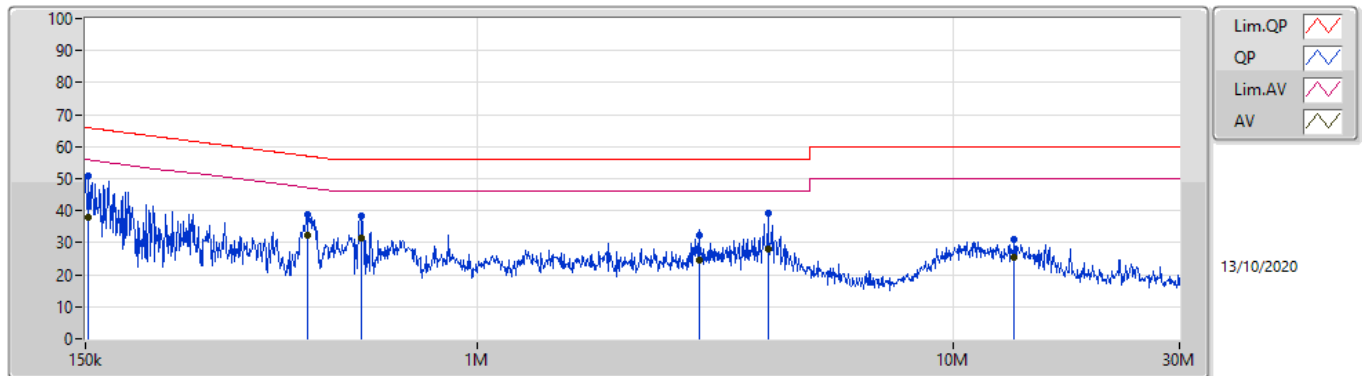
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	156.109k	50.36	65.67	-15.31	Line	-
Mode 1	Pass	AV	156.109k	36.27	55.67	-19.40	Line	-
Mode 1	Pass	QP	446.062k	38.75	56.96	-18.21	Line	-
Mode 1	Pass	AV	446.062k	33.12	46.96	-13.84	Line	"Worst"
Mode 1	Pass	QP	569.051k	38.70	56.00	-17.30	Line	-
Mode 1	Pass	AV	569.051k	31.56	46.00	-14.44	Line	-
Mode 1	Pass	QP	4.171M	39.48	56.00	-16.52	Line	-
Mode 1	Pass	AV	4.171M	28.48	46.00	-17.52	Line	-
Mode 1	Pass	QP	10.616M	31.12	60.00	-28.88	Line	-
Mode 1	Pass	AV	10.616M	26.02	50.00	-23.98	Line	-
Mode 1	Pass	QP	24.354M	30.37	60.00	-29.63	Line	-
Mode 1	Pass	AV	24.354M	25.98	50.00	-24.02	Line	-
Mode 1	Pass	QP	152.414k	50.99	65.87	-14.88	Neutral	-
Mode 1	Pass	AV	152.414k	38.08	55.87	-17.79	Neutral	-
Mode 1	Pass	QP	440.751k	38.74	57.05	-18.31	Neutral	-
Mode 1	Pass	AV	440.751k	32.45	47.05	-14.60	Neutral	"Worst"
Mode 1	Pass	QP	571.327k	38.46	56.00	-17.54	Neutral	-
Mode 1	Pass	AV	571.327k	31.30	46.00	-14.70	Neutral	-
Mode 1	Pass	QP	2.924M	32.34	56.00	-23.66	Neutral	-
Mode 1	Pass	AV	2.924M	24.41	46.00	-21.59	Neutral	-
Mode 1	Pass	QP	4.089M	39.08	56.00	-16.92	Neutral	-
Mode 1	Pass	AV	4.089M	28.13	46.00	-17.87	Neutral	-
Mode 1	Pass	QP	13.489M	31.05	60.00	-28.95	Neutral	-
Mode 1	Pass	AV	13.489M	25.37	50.00	-24.63	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.109k	50.36	65.67	-15.31	19.57	Line	-	30.79	9.66	0.01	9.90			
AV	156.109k	36.27	55.67	-19.40	19.57	Line	-	16.70	9.66	0.01	9.90			
QP	446.062k	38.75	56.96	-18.21	19.55	Line	-	19.20	9.64	0.02	9.89			
AV	446.062k	33.12	46.96	-13.84	19.55	Line	"Worst"	13.57	9.64	0.02	9.89			
QP	569.051k	38.70	56.00	-17.30	19.53	Line	-	19.17	9.64	0.03	9.86			
AV	569.051k	31.56	46.00	-14.44	19.53	Line	-	12.03	9.64	0.03	9.86			
QP	4.171M	39.48	56.00	-16.52	19.68	Line	-	19.80	9.66	0.12	9.90			
AV	4.171M	28.48	46.00	-17.52	19.68	Line	-	8.80	9.66	0.12	9.90			
QP	10.616M	31.12	60.00	-28.88	19.81	Line	-	11.31	9.69	0.22	9.90			
AV	10.616M	26.02	50.00	-23.98	19.81	Line	-	6.21	9.69	0.22	9.90			
QP	24.354M	30.37	60.00	-29.63	19.81	Line	-	10.56	9.57	0.34	9.90			
AV	24.354M	25.98	50.00	-24.02	19.81	Line	-	6.17	9.57	0.34	9.90			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	152.414k	50.99	65.87	-14.88	19.56	Neutral	-	31.43	9.65	0.01	9.90			
AV	152.414k	38.08	55.87	-17.79	19.56	Neutral	-	18.52	9.65	0.01	9.90			
QP	440.751k	38.74	57.05	-18.31	19.54	Neutral	-	19.20	9.63	0.02	9.89			
AV	440.751k	32.45	47.05	-14.60	19.54	Neutral	"Worst"	12.91	9.63	0.02	9.89			
QP	571.327k	38.46	56.00	-17.54	19.52	Neutral	-	18.94	9.63	0.03	9.86			
AV	571.327k	31.30	46.00	-14.70	19.52	Neutral	-	11.78	9.63	0.03	9.86			
QP	2.924M	32.34	56.00	-23.66	19.61	Neutral	-	12.73	9.66	0.10	9.85			
AV	2.924M	24.41	46.00	-21.59	19.61	Neutral	-	4.80	9.66	0.10	9.85			
QP	4.089M	39.08	56.00	-16.92	19.68	Neutral	-	19.40	9.66	0.12	9.90			
AV	4.089M	28.13	46.00	-17.87	19.68	Neutral	-	8.45	9.66	0.12	9.90			
QP	13.489M	31.05	60.00	-28.95	19.85	Neutral	-	11.20	9.71	0.24	9.90			
AV	13.489M	25.37	50.00	-24.63	19.85	Neutral	-	5.52	9.71	0.24	9.90			



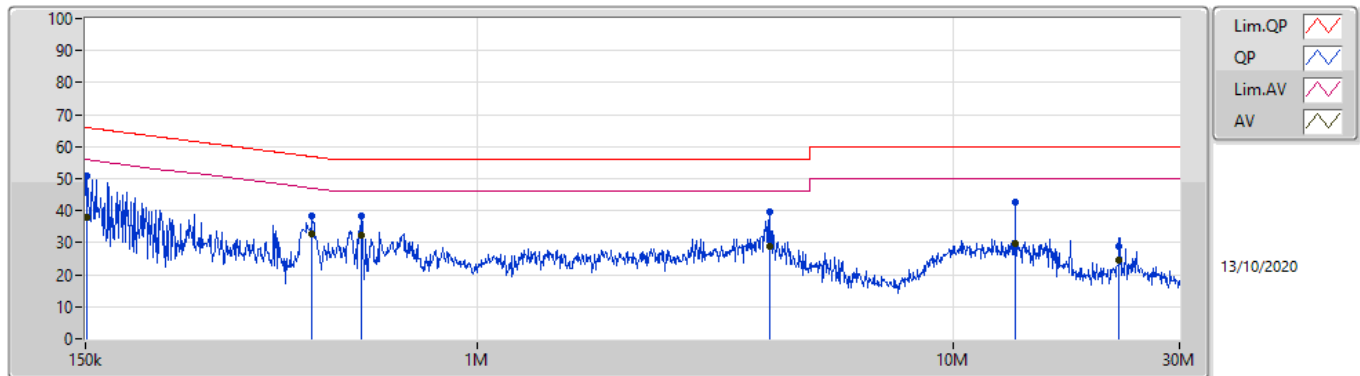
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	449.637k	33.63	46.88	-13.25	Neutral

Mode Configure

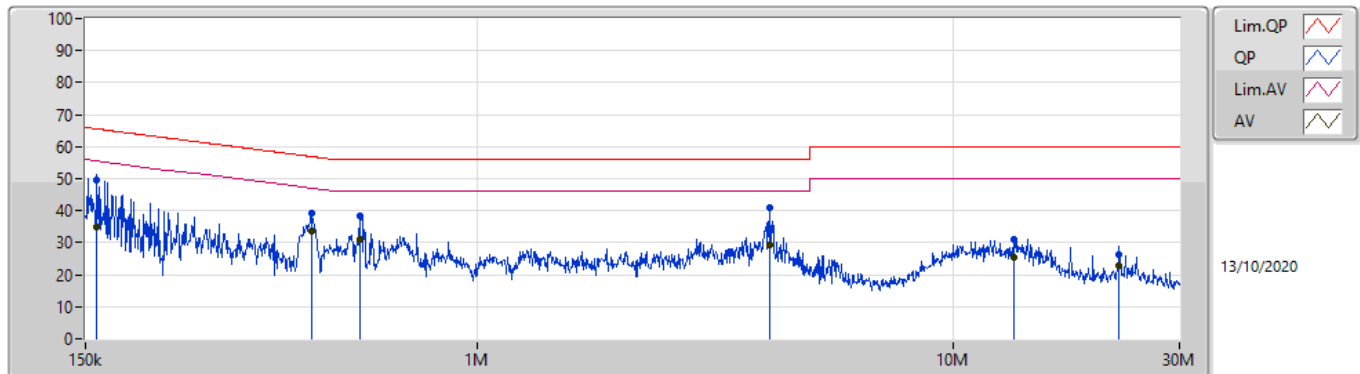
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	151.202k	50.81	65.92	-15.11	Line	-
Mode 1	Pass	AV	151.202k	38.13	55.92	-17.79	Line	-
Mode 1	Pass	QP	449.637k	38.37	56.88	-18.51	Line	-
Mode 1	Pass	AV	449.637k	32.90	46.88	-13.98	Line	-
Mode 1	Pass	QP	571.327k	38.43	56.00	-17.57	Line	-
Mode 1	Pass	AV	571.327k	32.18	46.00	-13.82	Line	"Worst"
Mode 1	Pass	QP	4.122M	39.63	56.00	-16.37	Line	-
Mode 1	Pass	AV	4.122M	29.04	46.00	-16.96	Line	-
Mode 1	Pass	QP	13.543M	42.74	60.00	-17.26	Line	-
Mode 1	Pass	AV	13.543M	29.65	50.00	-20.35	Line	-
Mode 1	Pass	QP	22.396M	28.67	60.00	-31.33	Line	-
Mode 1	Pass	AV	22.396M	24.65	50.00	-25.35	Line	-
Mode 1	Pass	QP	158.622k	49.52	65.54	-16.02	Neutral	-
Mode 1	Pass	AV	158.622k	34.87	55.54	-20.67	Neutral	-
Mode 1	Pass	QP	449.637k	39.29	56.88	-17.59	Neutral	-
Mode 1	Pass	AV	449.637k	33.63	46.88	-13.25	Neutral	"Worst"
Mode 1	Pass	QP	566.784k	38.46	56.00	-17.54	Neutral	-
Mode 1	Pass	AV	566.784k	31.13	46.00	-14.87	Neutral	-
Mode 1	Pass	QP	4.122M	41.13	56.00	-14.87	Neutral	-
Mode 1	Pass	AV	4.122M	29.19	46.00	-16.81	Neutral	-
Mode 1	Pass	QP	13.489M	30.91	60.00	-29.09	Neutral	-
Mode 1	Pass	AV	13.489M	25.46	50.00	-24.54	Neutral	-
Mode 1	Pass	QP	22.396M	26.36	60.00	-33.64	Neutral	-
Mode 1	Pass	AV	22.396M	23.03	50.00	-26.97	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.202k	50.81	65.92	-15.11	19.57	Line	-	31.24	9.66	0.01	9.90			
AV	151.202k	38.13	55.92	-17.79	19.57	Line	-	18.56	9.66	0.01	9.90			
QP	449.637k	38.37	56.88	-18.51	19.55	Line	-	18.82	9.64	0.02	9.89			
AV	449.637k	32.90	46.88	-13.98	19.55	Line	-	13.35	9.64	0.02	9.89			
QP	571.327k	38.43	56.00	-17.57	19.53	Line	-	18.90	9.64	0.03	9.86			
AV	571.327k	32.18	46.00	-13.82	19.53	Line	"Worst"	12.65	9.64	0.03	9.86			
QP	4.122M	39.63	56.00	-16.37	19.68	Line	-	19.95	9.66	0.12	9.90			
AV	4.122M	29.04	46.00	-16.96	19.68	Line	-	9.36	9.66	0.12	9.90			
QP	13.543M	42.74	60.00	-17.26	19.81	Line	-	22.93	9.67	0.24	9.90			
AV	13.543M	29.65	50.00	-20.35	19.81	Line	-	9.84	9.67	0.24	9.90			
QP	22.396M	28.67	60.00	-31.33	19.82	Line	-	8.85	9.60	0.32	9.90			
AV	22.396M	24.65	50.00	-25.35	19.82	Line	-	4.83	9.60	0.32	9.90			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	158.622k	49.52	65.54	-16.02	19.56	Neutral	-	29.96	9.65	0.01	9.90			
AV	158.622k	34.87	55.54	-20.67	19.56	Neutral	-	15.31	9.65	0.01	9.90			
QP	449.637k	39.29	56.88	-17.59	19.54	Neutral	-	19.75	9.63	0.02	9.89			
AV	449.637k	33.63	46.88	-13.25	19.54	Neutral	"Worst"	14.09	9.63	0.02	9.89			
QP	566.784k	38.46	56.00	-17.54	19.52	Neutral	-	18.94	9.63	0.03	9.86			
AV	566.784k	31.13	46.00	-14.87	19.52	Neutral	-	11.61	9.63	0.03	9.86			
QP	4.122M	41.13	56.00	-14.87	19.68	Neutral	-	21.45	9.66	0.12	9.90			
AV	4.122M	29.19	46.00	-16.81	19.68	Neutral	-	9.51	9.66	0.12	9.90			
QP	13.489M	30.91	60.00	-29.09	19.85	Neutral	-	11.06	9.71	0.24	9.90			
AV	13.489M	25.46	50.00	-24.54	19.85	Neutral	-	5.61	9.71	0.24	9.90			
QP	22.396M	26.36	60.00	-33.64	19.92	Neutral	-	6.44	9.70	0.32	9.90			
AV	22.396M	23.03	50.00	-26.97	19.92	Neutral	-	3.11	9.70	0.32	9.90			

**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)_2TX	8.525M	14.618M	14M6G1D	7.525M	13.068M
802.11g_Nss1,(6Mbps)_2TX	16.325M	23.688M	23M7D1D	15.875M	16.442M
VHT20_Nss1,(MCS0)_2TX	17.575M	18.491M	18M5D1D	16.925M	17.616M
VHT40_Nss1,(MCS0)_2TX	36.35M	36.382M	36M4D1D	35.65M	36.282M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.825M	19.44M	19M4D1D	18.5M	18.916M
802.11ax HEW40_Nss1,(MCS0)_2TX	38M	38.031M	38M0D1D	37.45M	37.881M

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

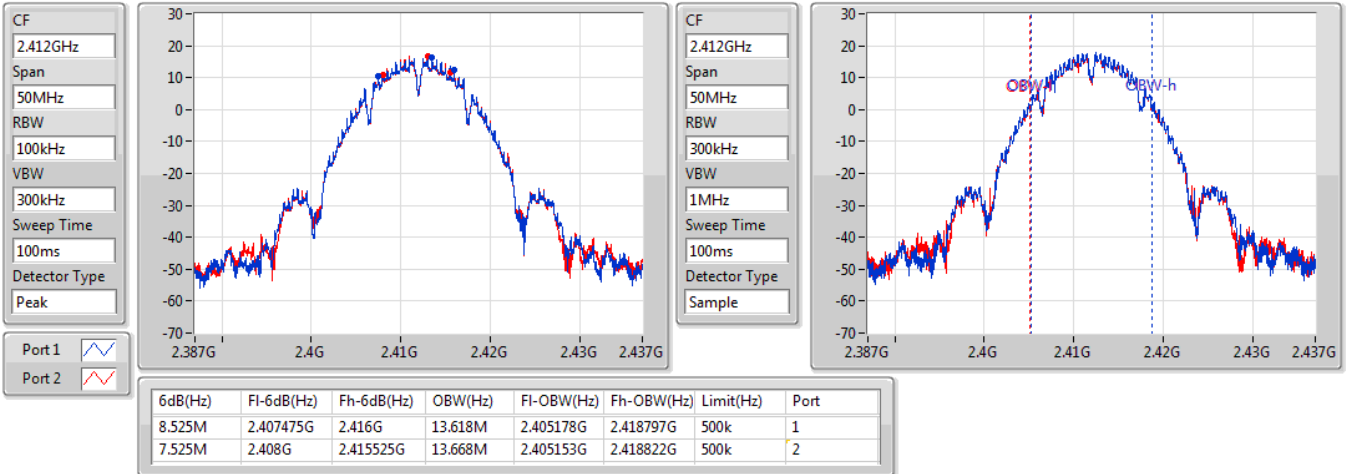
Result

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)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.525M	13.618M	7.525M	13.668M
2437MHz	Pass	500k	8.5M	14.618M	7.525M	13.918M
2462MHz	Pass	500k	8.025M	13.168M	7.525M	13.068M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.442M	16.3M	16.442M
2437MHz	Pass	500k	16.3M	23.688M	15.875M	19.515M
2462MHz	Pass	500k	16.3M	16.442M	16.3M	16.442M
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.55M	17.616M	17.525M	17.641M
2437MHz	Pass	500k	16.925M	18.491M	17.55M	17.941M
2462MHz	Pass	500k	17.15M	17.641M	17.575M	17.641M
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.95M	36.332M	36.05M	36.282M
2437MHz	Pass	500k	35.65M	36.332M	35.95M	36.382M
2452MHz	Pass	500k	35.65M	36.332M	36.35M	36.332M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.725M	18.916M	18.825M	18.941M
2437MHz	Pass	500k	18.825M	19.44M	18.5M	19.165M
2462MHz	Pass	500k	18.775M	18.966M	18.825M	18.941M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.8M	37.881M	37.85M	38.031M
2437MHz	Pass	500k	37.9M	37.981M	38M	37.881M
2452MHz	Pass	500k	37.85M	37.931M	37.45M	37.981M

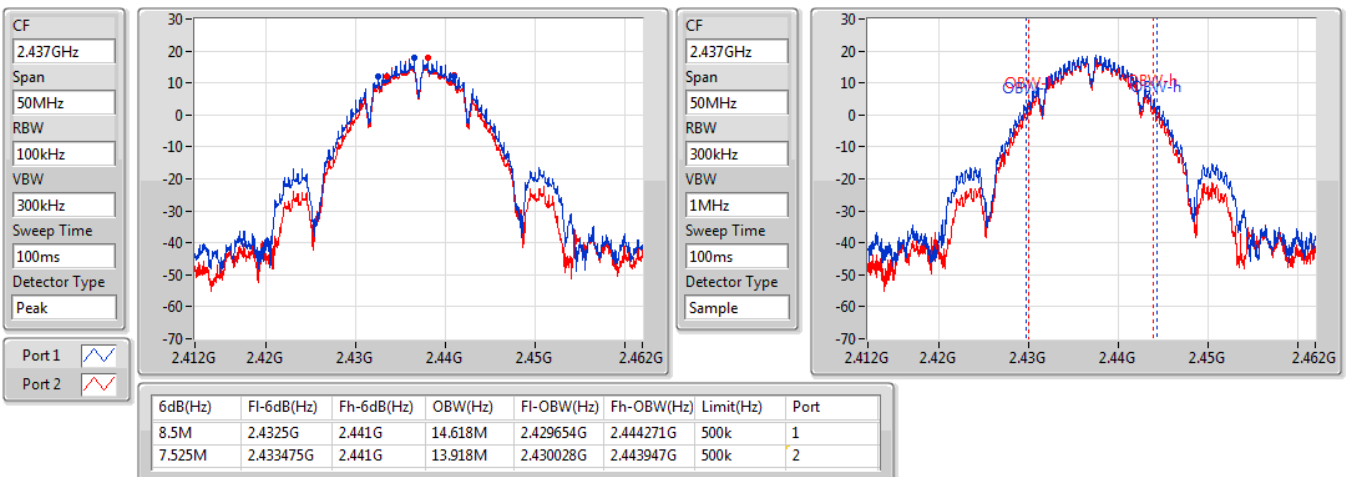
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

14/12/2020

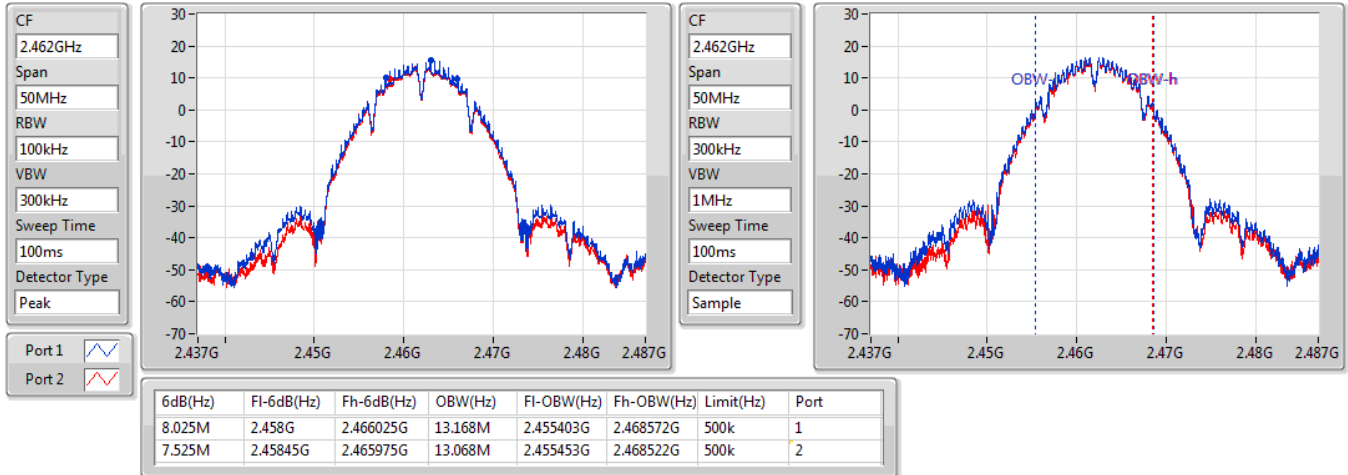

802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

14/12/2020

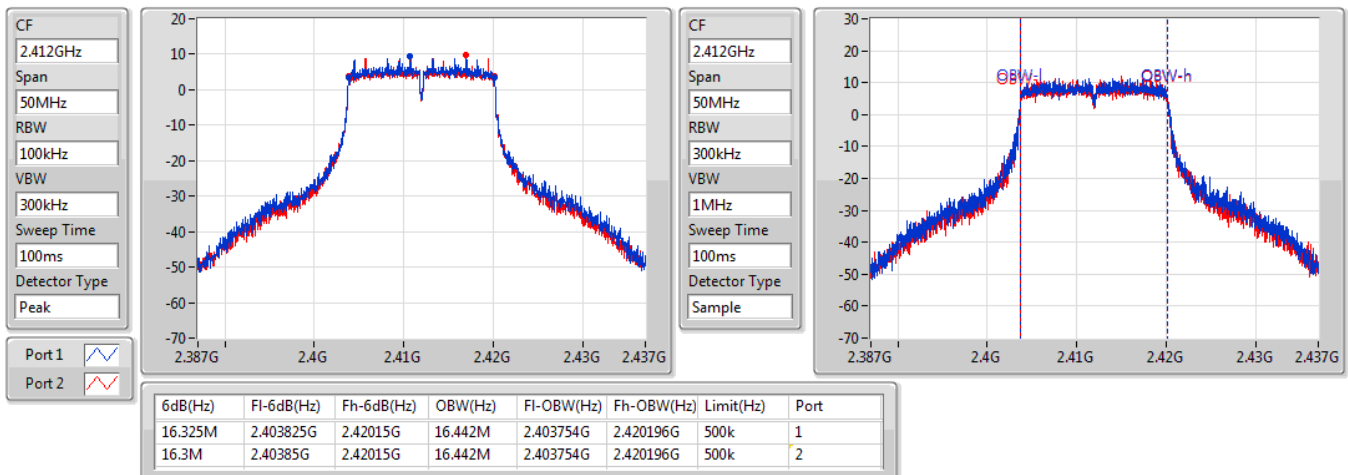


802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

14/12/2020

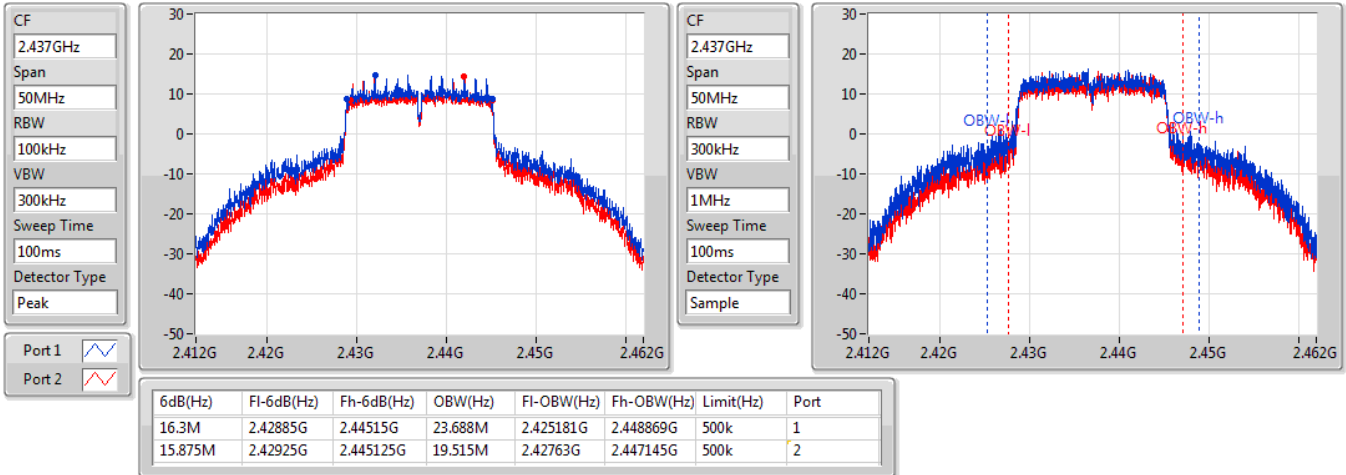

802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

14/12/2020

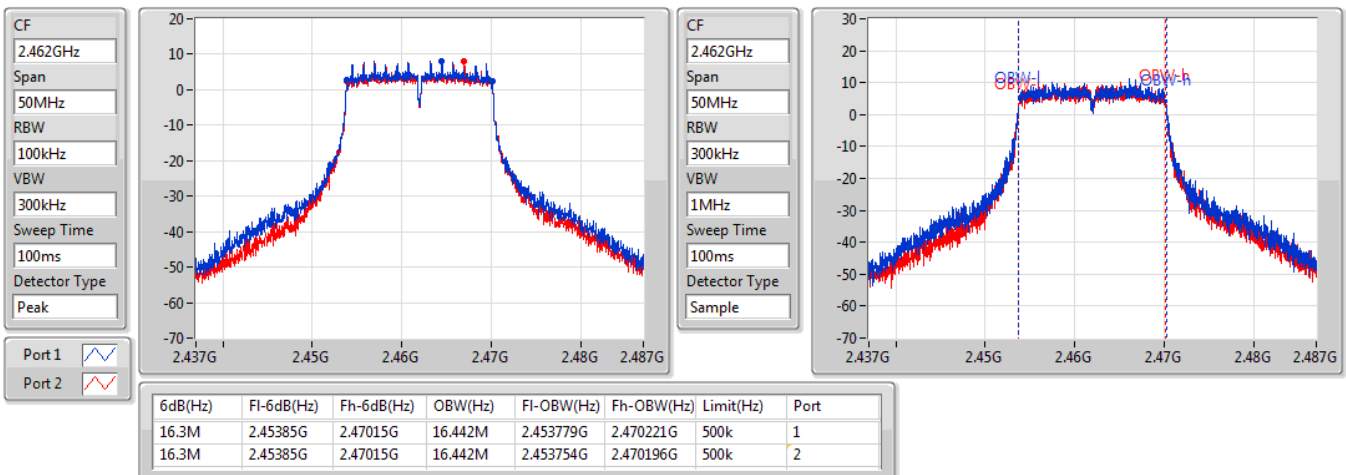


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

14/12/2020

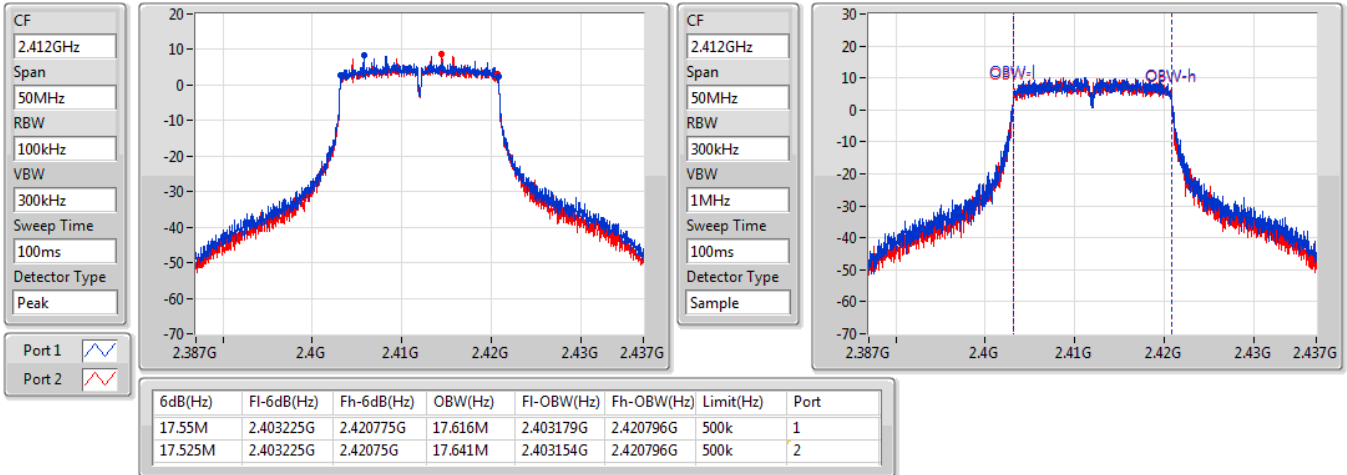

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

14/12/2020

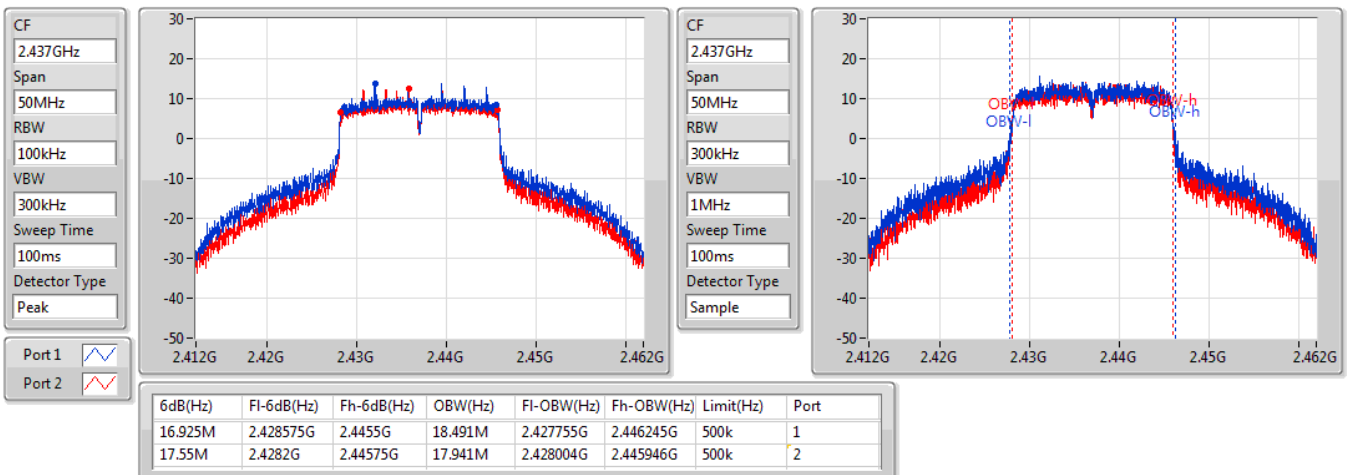


VHT20_Nss1,(MCS0)_2TX
EBW
2412MHz

14/12/2020

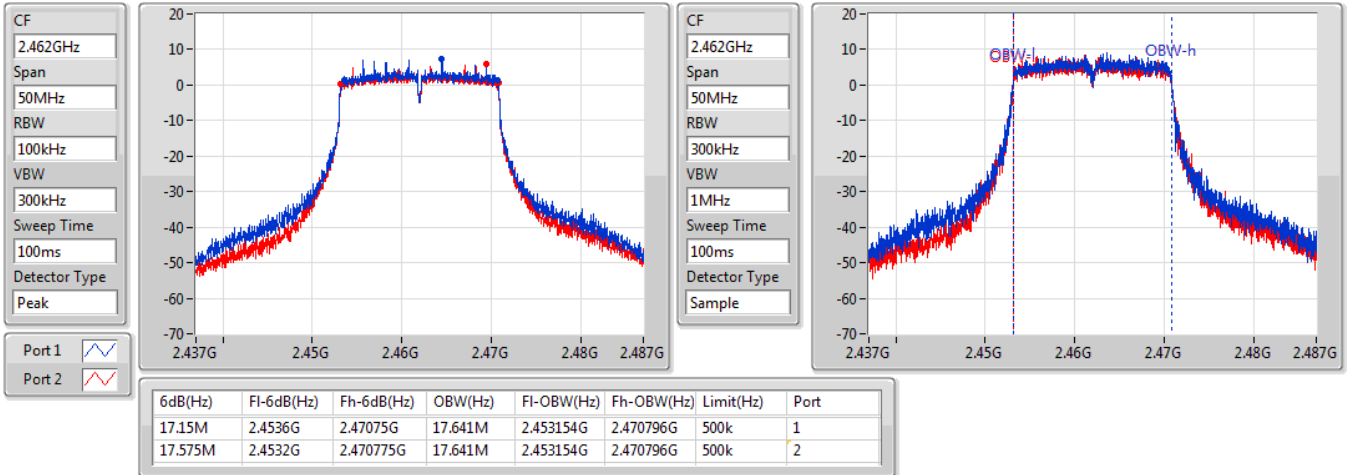

VHT20_Nss1,(MCS0)_2TX
EBW
2437MHz

14/12/2020

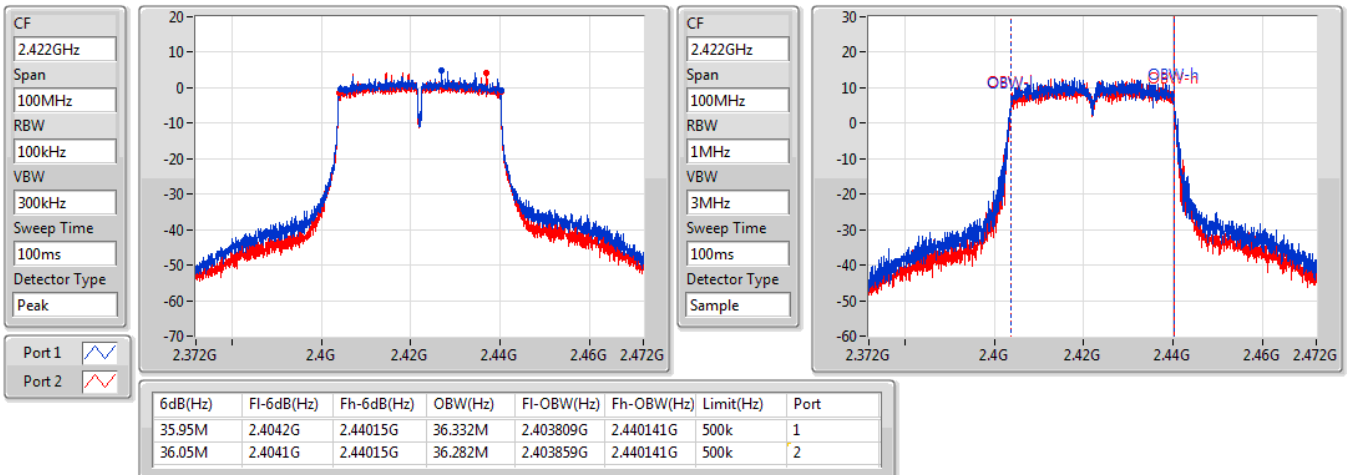


VHT20_Nss1,(MCS0)_2TX
EBW
2462MHz

14/12/2020

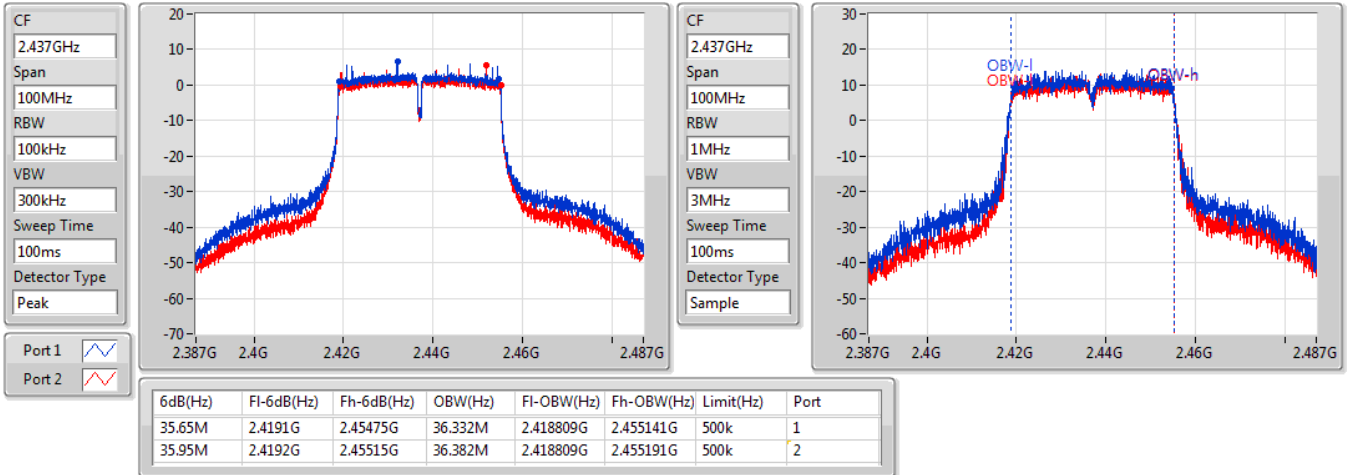

VHT40_Nss1,(MCS0)_2TX
EBW
2422MHz

14/12/2020

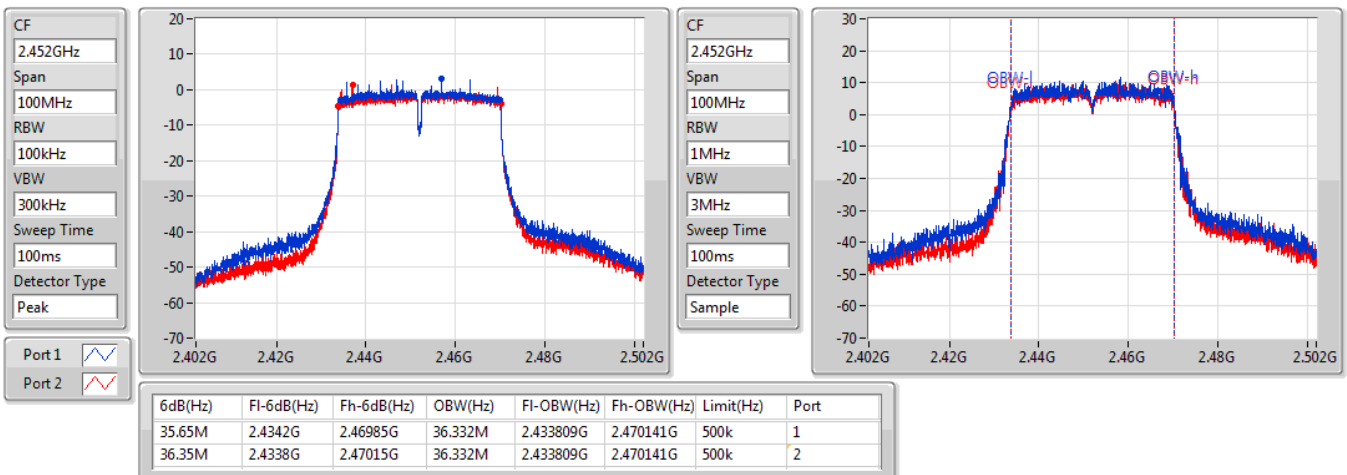


VHT40_Nss1,(MCS0)_2TX
EBW
2437MHz

14/12/2020

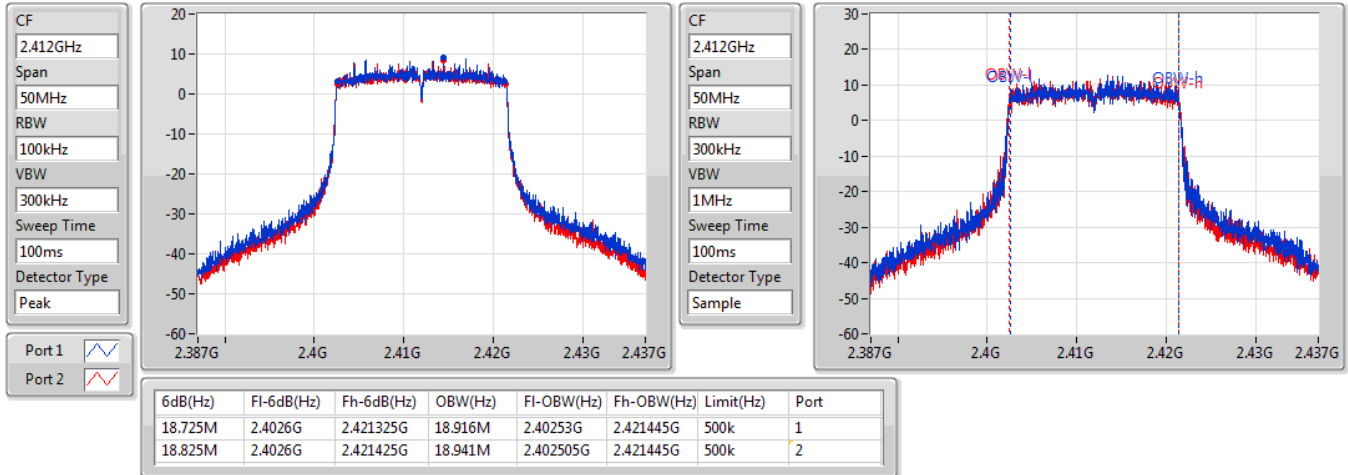

VHT40_Nss1,(MCS0)_2TX
EBW
2452MHz

14/12/2020

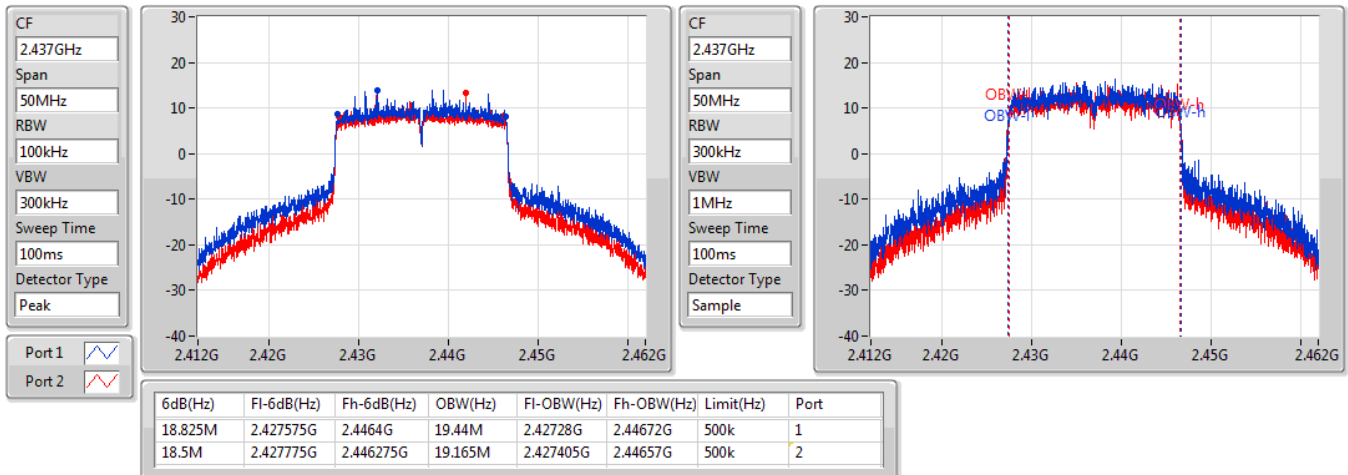


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2412MHz

14/12/2020

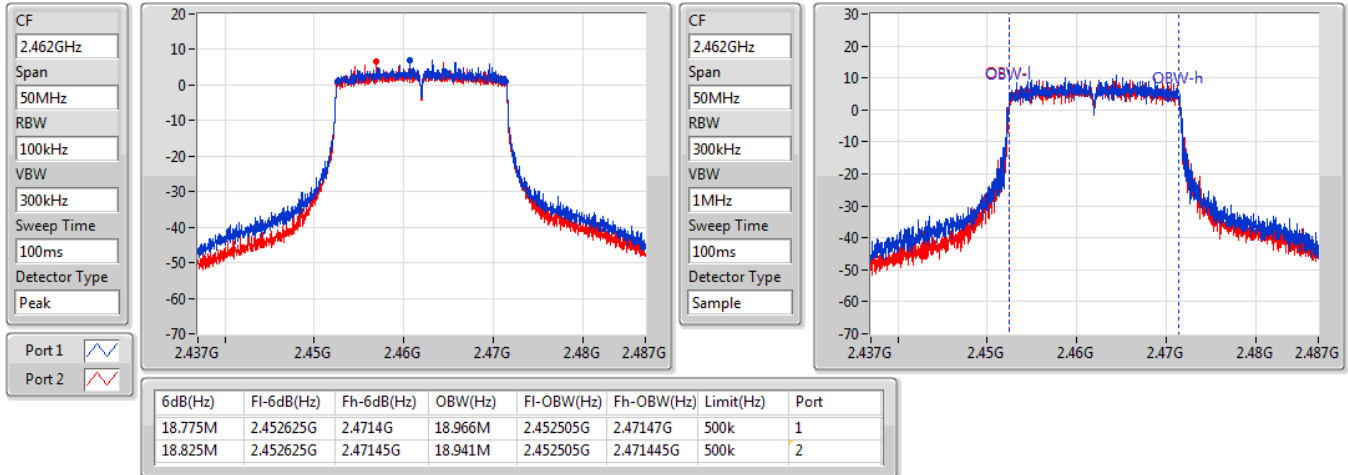

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2437MHz

14/12/2020

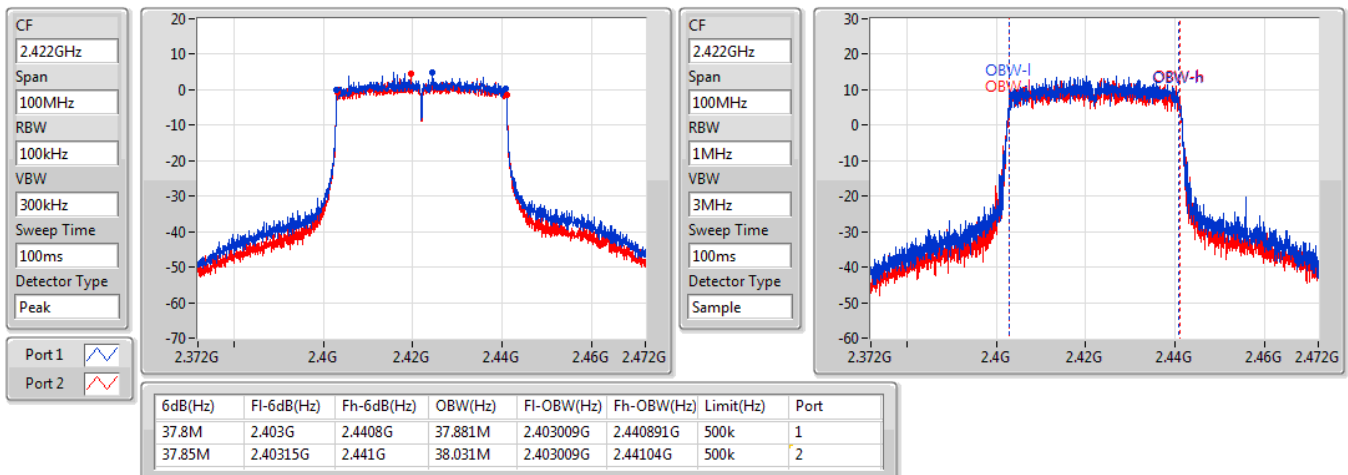


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2462MHz

14/12/2020

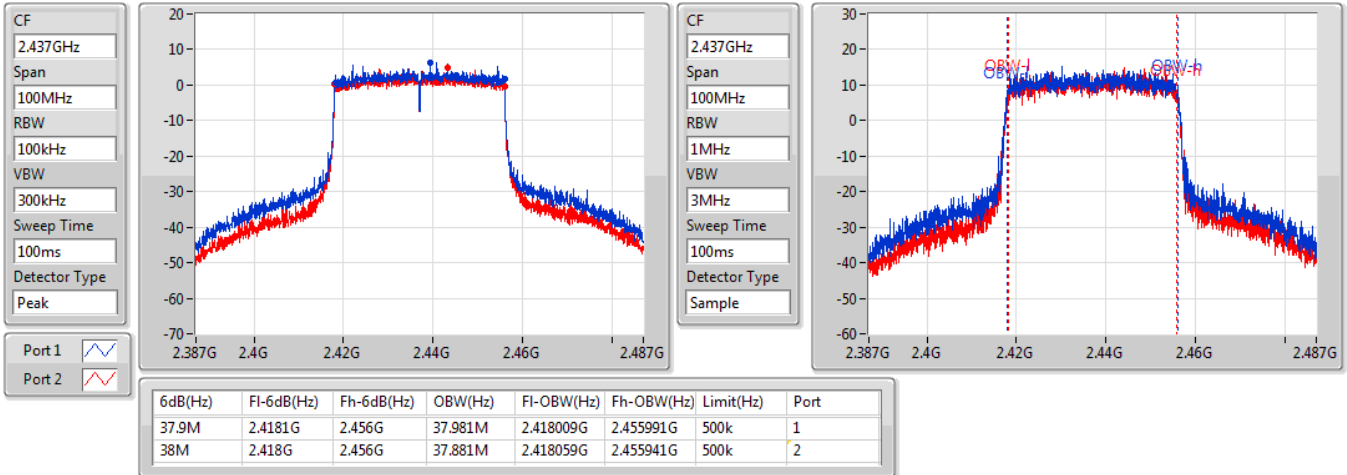

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2422MHz

14/12/2020

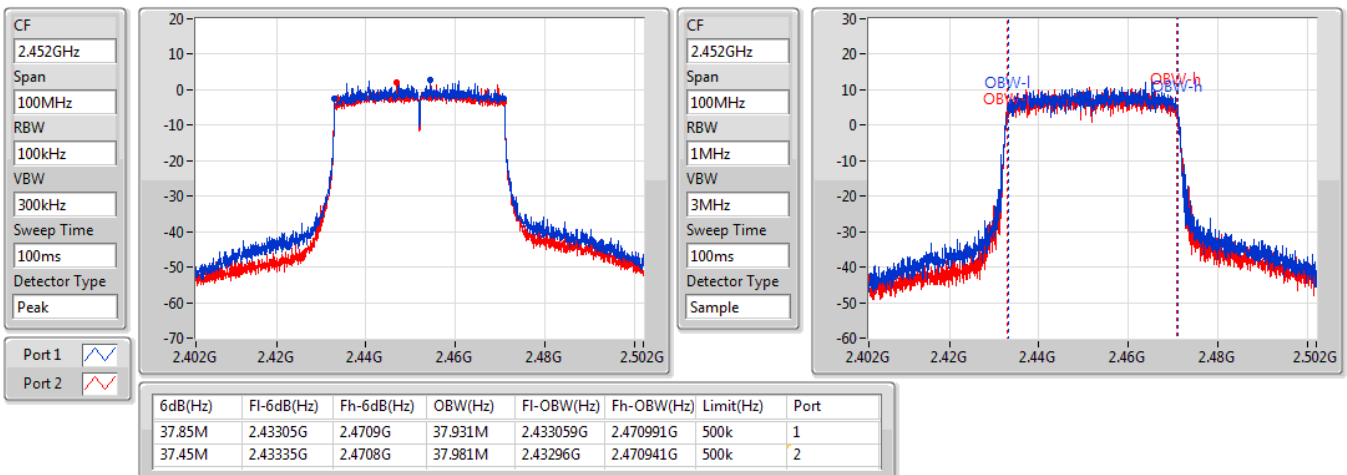


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2437MHz

14/12/2020


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2452MHz

14/12/2020





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
VHT20-BF_Nss1,(MCS0)_2TX	17.525M	17.664M	17M7D1D	14.975M	17.642M
VHT40-BF_Nss1,(MCS0)_2TX	36.05M	36.3M	36M3D1D	25.65M	36.222M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	19.05M	19.115M	19M1D1D	18.875M	18.991M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.95M	38.331M	38M3D1D	28.9M	38.131M

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

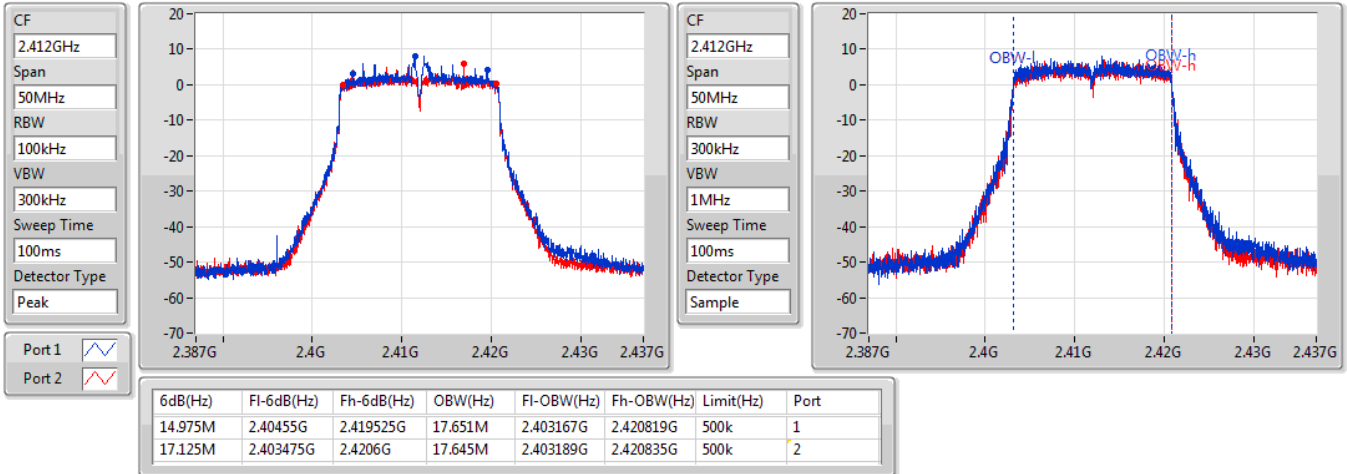
**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	14.975M	17.651M	17.125M	17.645M
2437MHz_TnomVnom	Pass	500k	16.95M	17.647M	17.525M	17.65M
2462MHz_TnomVnom	Pass	500k	17.25M	17.664M	17.25M	17.642M
VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	500k	36.05M	36.285M	35M	36.299M
2437MHz_TnomVnom	Pass	500k	25.65M	36.3M	25.95M	36.265M
2452MHz_TnomVnom	Pass	500k	35.65M	36.299M	26.25M	36.222M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	19.025M	18.991M	18.95M	18.991M
2437MHz_TnomVnom	Pass	500k	18.925M	19.065M	18.875M	19.065M
2462MHz_TnomVnom	Pass	500k	19.05M	19.04M	19M	19.115M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	500k	37.95M	38.331M	32.5M	38.131M
2437MHz_TnomVnom	Pass	500k	28.9M	38.131M	36.9M	38.231M
2452MHz_TnomVnom	Pass	500k	34.4M	38.181M	36.25M	38.281M

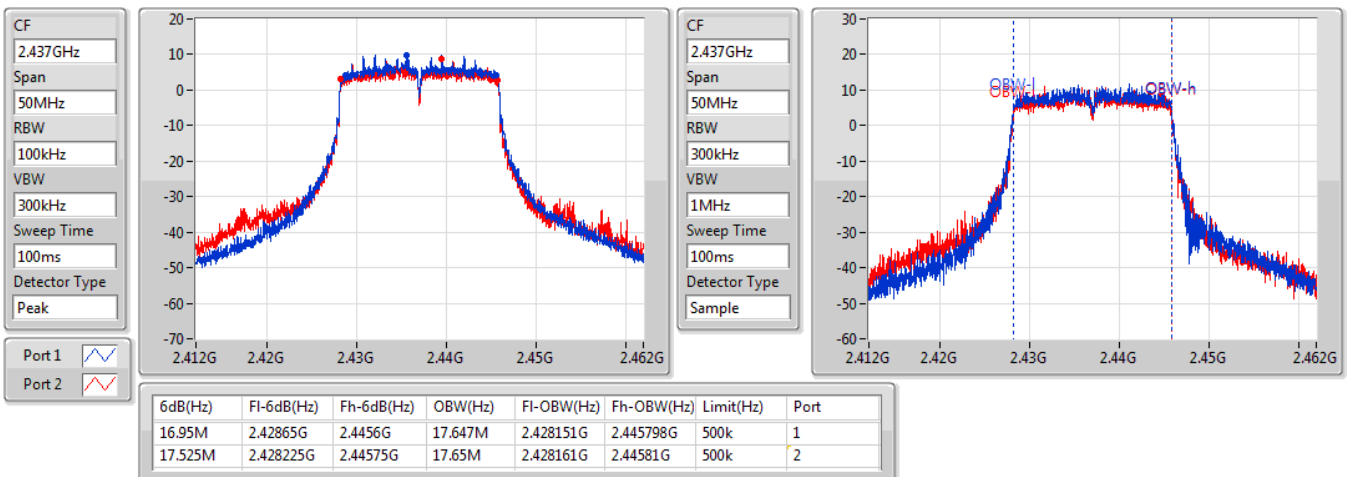
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

VHT20-BF_Nss1,(MCS0)_2TX
EBW
2412MHz

16/12/2020

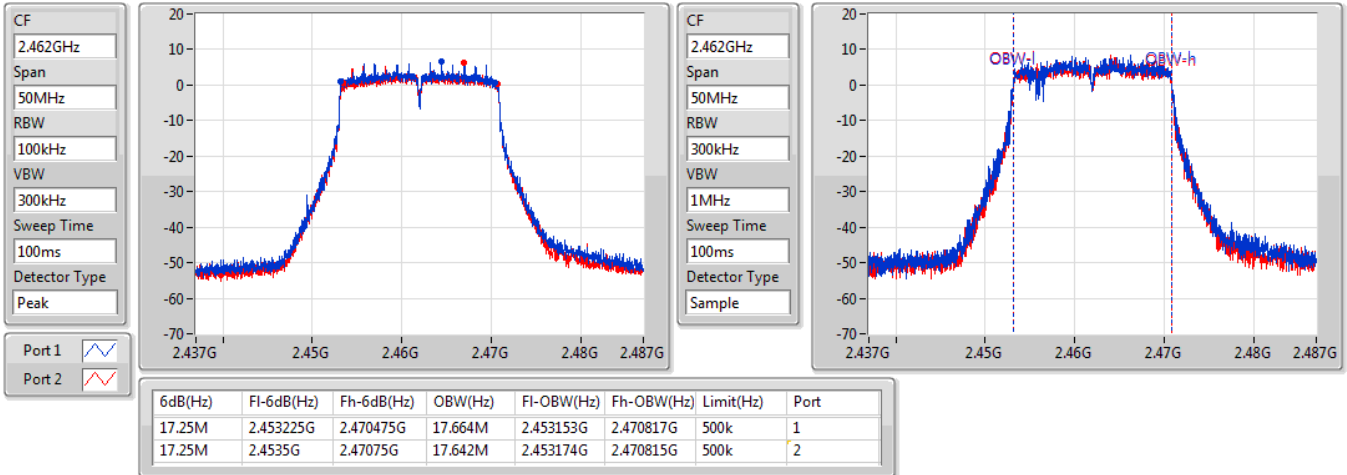

VHT20-BF_Nss1,(MCS0)_2TX
EBW
2437MHz

16/12/2020

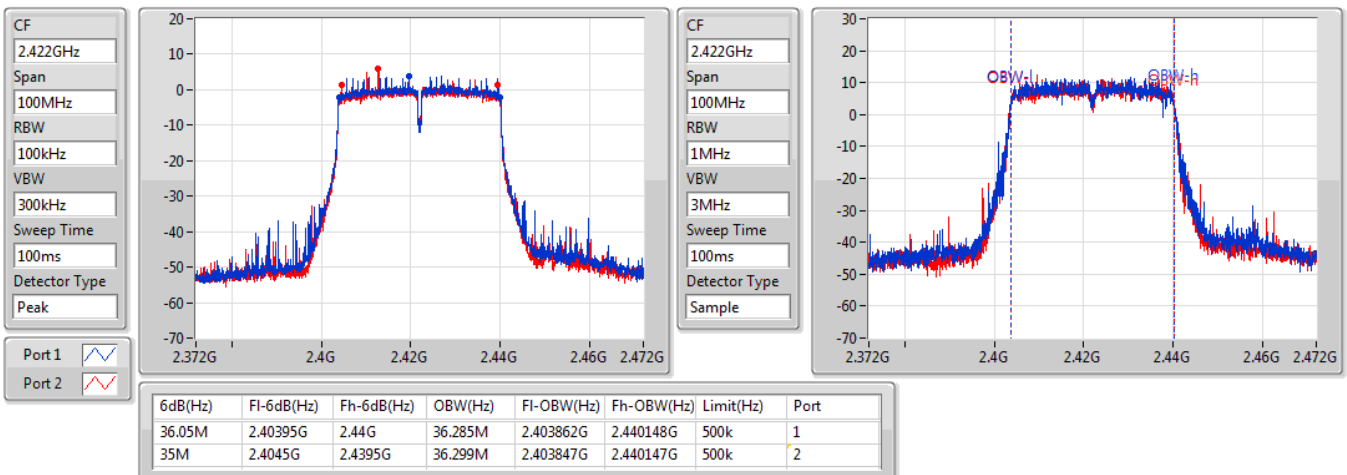


VHT20-BF_Nss1,(MCS0)_2TX
EBW
2462MHz

16/12/2020

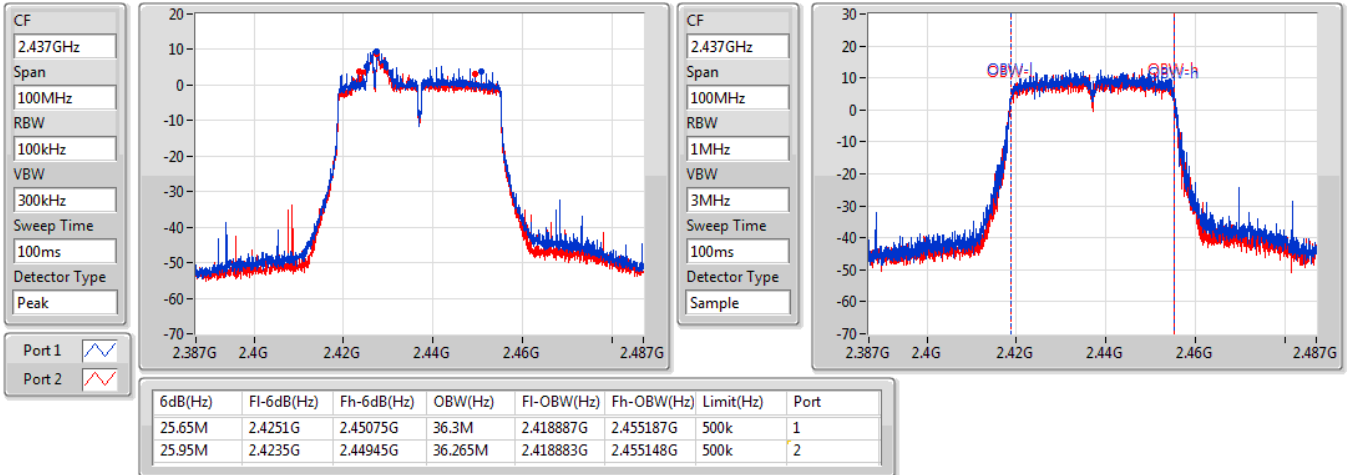

VHT40-BF_Nss1,(MCS0)_2TX
EBW
2422MHz

16/12/2020

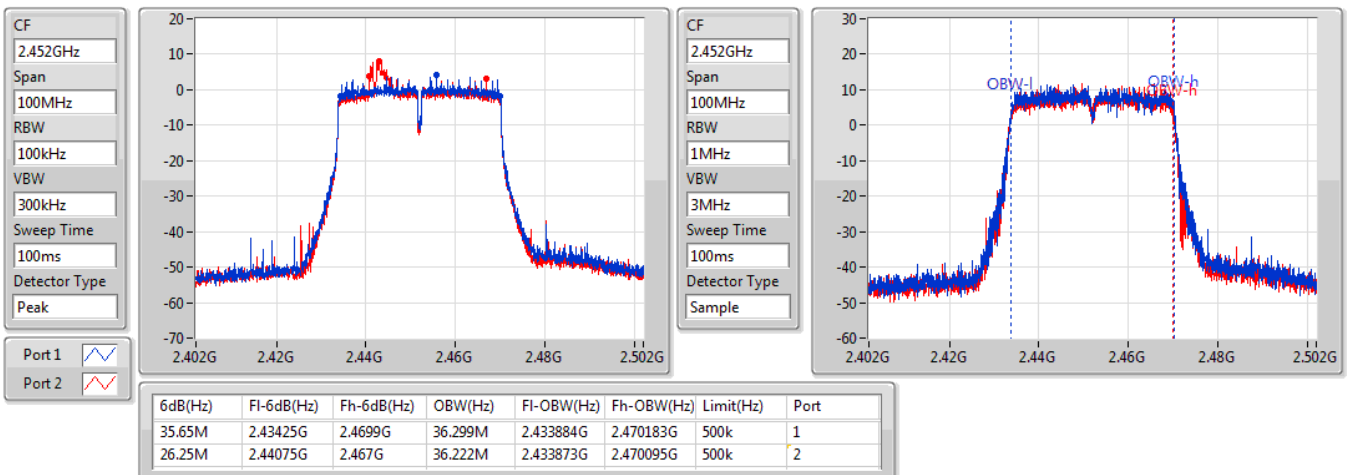


VHT40-BF_Nss1,(MCS0)_2TX
EBW
2437MHz

16/12/2020

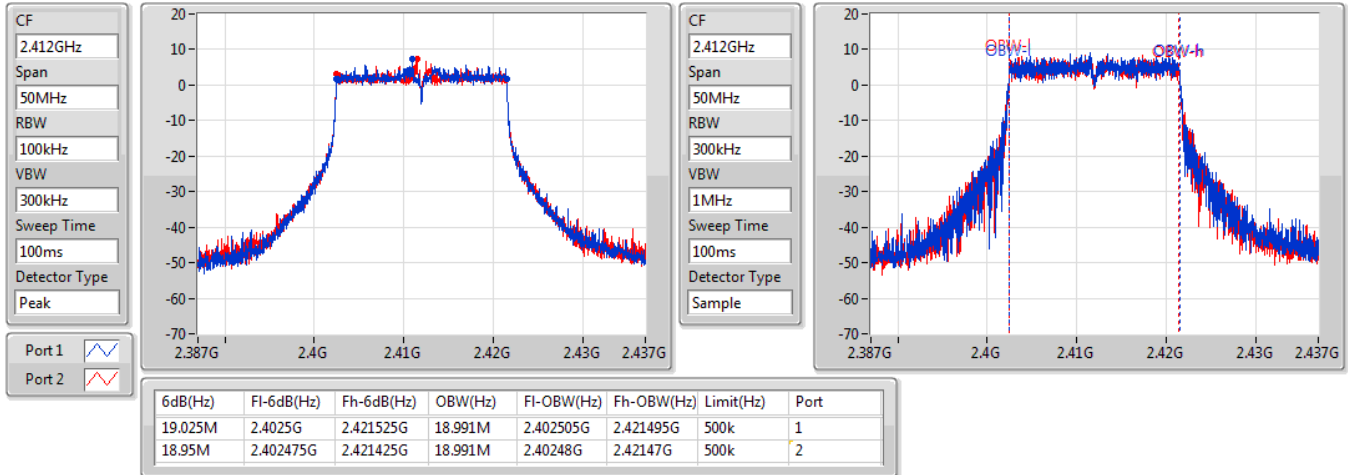

VHT40-BF_Nss1,(MCS0)_2TX
EBW
2452MHz

16/12/2020

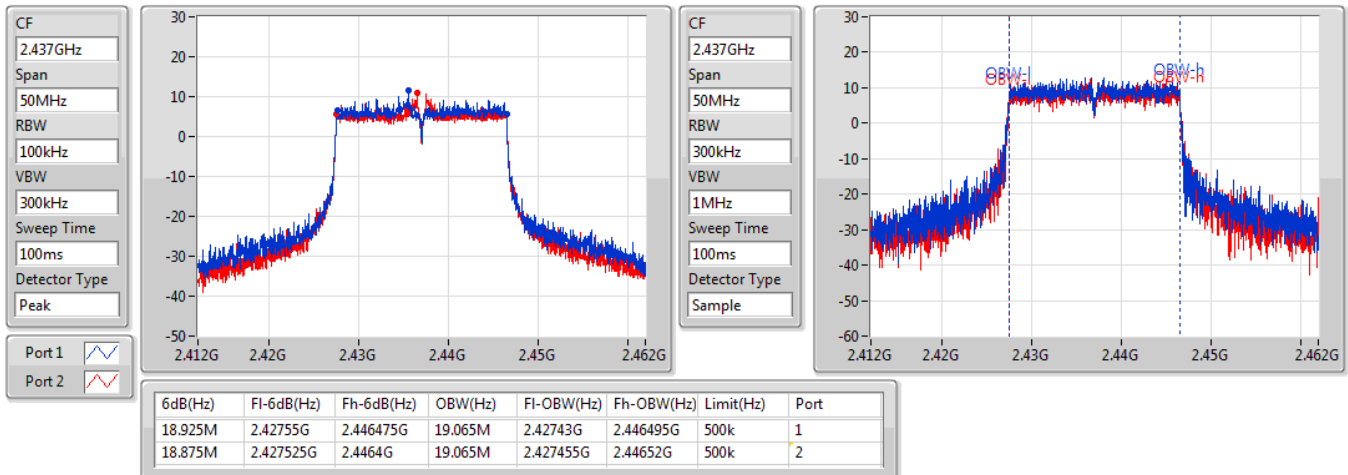


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2412MHz

15/12/2020

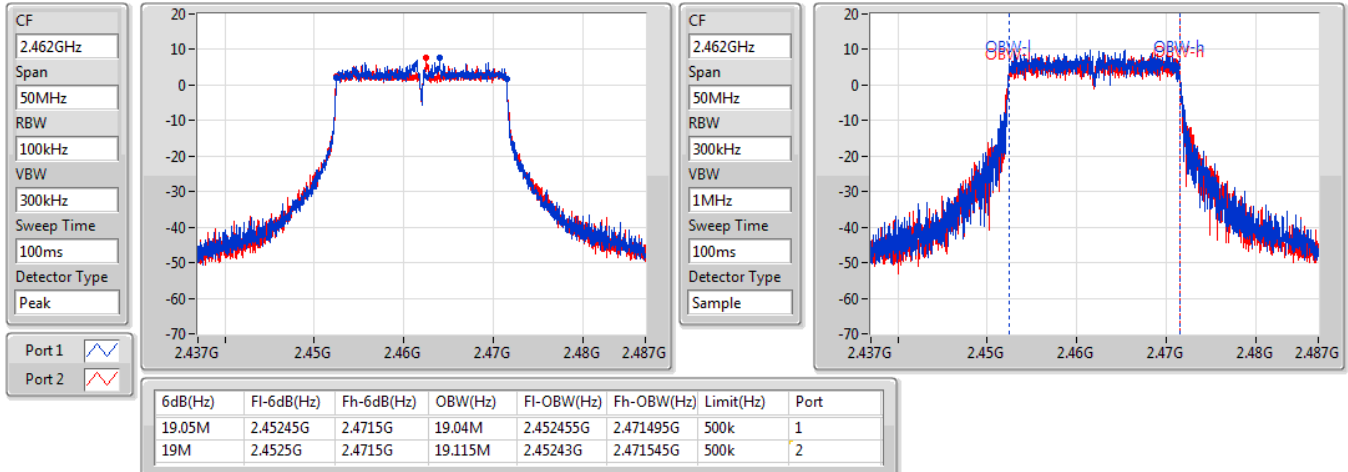

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2437MHz

15/12/2020

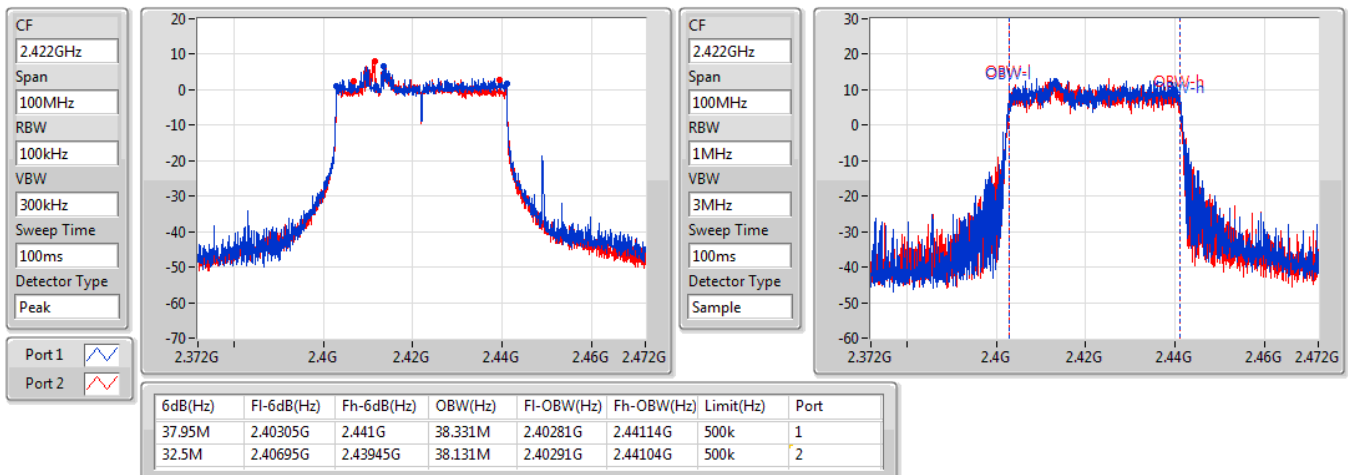


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2462MHz

15/12/2020

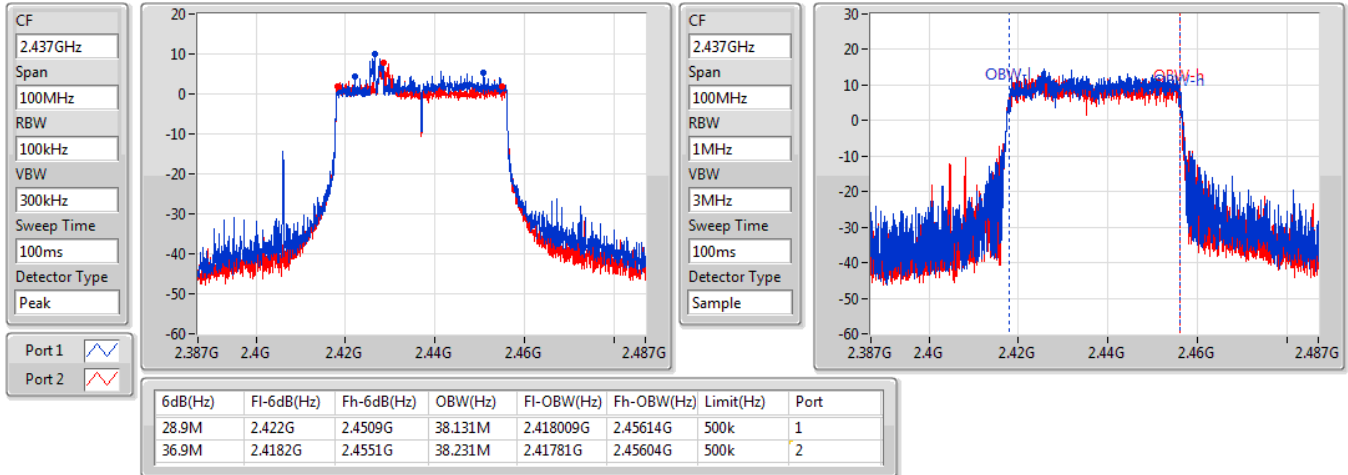

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
2422MHz

15/12/2020

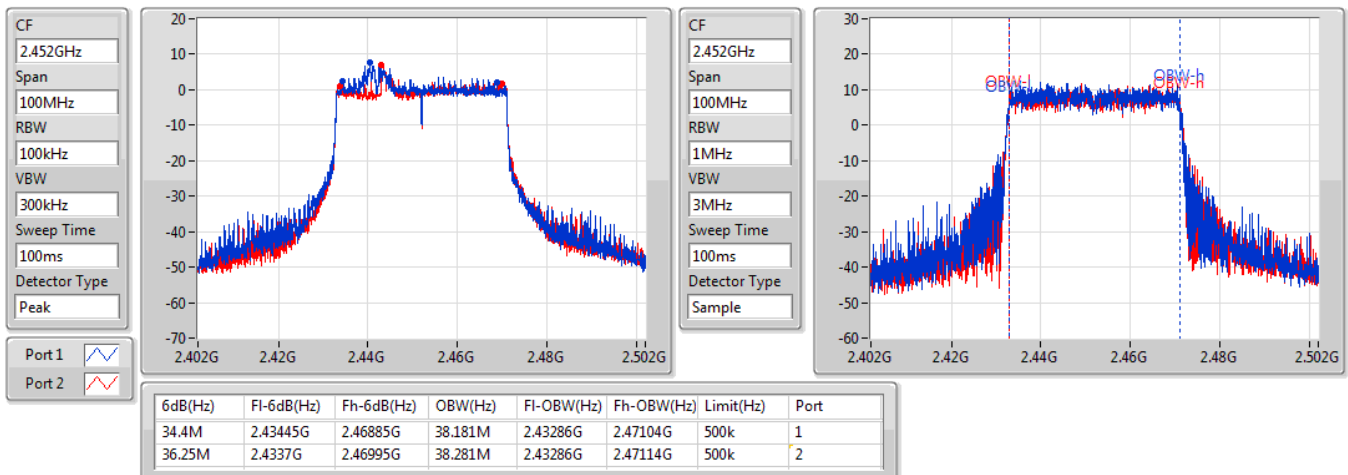


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
2437MHz

15/12/2020


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
2452MHz

15/12/2020





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	29.53	0.89743
802.11g_Nss1,(6Mbps)_2TX	28.66	0.73451
VHT20_Nss1,(MCS0)_2TX	27.87	0.61235
VHT40_Nss1,(MCS0)_2TX	24.11	0.25763
802.11ax HEW20_Nss1,(MCS0)_2TX	28.10	0.64565
802.11ax HEW40_Nss1,(MCS0)_2TX	24.29	0.26853



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.13	26.07	25.77	28.93	30.00
2417MHz	Pass	4.13	26.57	26.16	29.38	30.00
2437MHz	Pass	4.05	26.95	26.04	29.53	30.00
2457MHz	Pass	4.05	23.91	23.32	26.64	30.00
2462MHz	Pass	4.05	24.86	24.31	27.60	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.13	21.61	21.14	24.39	30.00
2417MHz	Pass	4.13	22.93	22.33	25.65	30.00
2437MHz	Pass	4.05	26.11	25.13	28.66	30.00
2457MHz	Pass	4.05	22.76	22.02	25.42	30.00
2462MHz	Pass	4.05	20.37	19.75	23.08	30.00
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.13	21.02	20.57	23.81	30.00
2417MHz	Pass	4.13	22.35	21.90	25.14	30.00
2437MHz	Pass	4.05	25.25	24.42	27.87	30.00
2457MHz	Pass	4.05	22.67	21.97	25.34	30.00
2462MHz	Pass	4.05	19.26	18.67	21.99	30.00
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.13	20.34	19.55	22.97	30.00
2427MHz	Pass	4.13	20.80	20.05	23.45	30.00
2437MHz	Pass	4.05	21.59	20.54	24.11	30.00
2447MHz	Pass	4.05	19.61	18.71	22.19	30.00
2452MHz	Pass	4.05	18.20	17.37	20.82	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.13	21.19	20.84	24.03	30.00
2417MHz	Pass	4.13	22.53	22.10	25.33	30.00
2437MHz	Pass	4.05	25.53	24.60	28.10	30.00
2457MHz	Pass	4.05	22.85	22.23	25.56	30.00
2462MHz	Pass	4.05	19.46	18.98	22.24	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.13	20.46	19.81	23.16	30.00
2427MHz	Pass	4.13	20.83	20.19	23.53	30.00
2437MHz	Pass	4.05	21.76	20.74	24.29	30.00
2447MHz	Pass	4.05	19.78	18.82	22.34	30.00
2452MHz	Pass	4.05	18.30	17.57	20.96	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
VHT20-BF_Nss1,(MCS0)_2TX	23.59	0.22856
VHT40-BF_Nss1,(MCS0)_2TX	21.72	0.14859
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	24.31	0.26977
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	22.33	0.17100

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.52	17.26	16.69	19.99	30.00
2417MHz	Pass	4.52	18.96	18.41	21.70	30.00
2437MHz	Pass	4.74	21.03	20.07	23.59	30.00
2457MHz	Pass	4.74	19.81	19.33	22.59	30.00
2462MHz	Pass	4.74	17.97	17.26	20.64	30.00
VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.52	17.82	17.68	20.76	30.00
2427MHz	Pass	4.52	18.06	17.19	20.66	30.00
2437MHz	Pass	4.74	19.21	18.15	21.72	30.00
2447MHz	Pass	4.74	18.06	17.17	20.65	30.00
2452MHz	Pass	4.74	17.93	17.12	20.55	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.52	17.85	17.28	20.58	30.00
2417MHz	Pass	4.52	19.78	19.51	22.66	30.00
2437MHz	Pass	4.74	21.64	20.94	24.31	30.00
2457MHz	Pass	4.74	20.62	20.05	23.35	30.00
2462MHz	Pass	4.74	18.63	17.85	21.27	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.52	18.89	18.65	21.78	30.00
2427MHz	Pass	4.52	19.05	18.25	21.68	30.00
2437MHz	Pass	4.74	19.58	19.04	22.33	30.00
2447MHz	Pass	4.74	18.72	18.22	21.49	30.00
2452MHz	Pass	4.74	18.73	17.87	21.33	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	5.30
802.11g_Nss1,(6Mbps)_2TX	1.34
VHT20_Nss1,(MCS0)_2TX	0.17
VHT40_Nss1,(MCS0)_2TX	-6.58
802.11ax HEW20_Nss1,(MCS0)_2TX	-1.10
802.11ax HEW40_Nss1,(MCS0)_2TX	-6.66

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.52	2.38	1.64	4.65	8.00
2437MHz	Pass	4.74	2.85	1.64	5.30	8.00
2462MHz	Pass	4.74	0.97	-0.48	1.86	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.52	-7.30	-7.54	-5.32	8.00
2437MHz	Pass	4.74	-0.19	-2.41	1.34	8.00
2462MHz	Pass	4.74	-8.49	-7.36	-5.52	8.00
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.52	-5.97	-5.71	-4.00	8.00
2437MHz	Pass	4.74	-2.16	-2.02	0.17	8.00
2462MHz	Pass	4.74	-7.13	-8.99	-5.38	8.00
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.52	-9.55	-10.00	-7.75	8.00
2437MHz	Pass	4.74	-8.20	-8.67	-6.58	8.00
2452MHz	Pass	4.74	-11.64	-11.85	-10.03	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.52	-6.36	-6.63	-5.08	8.00
2437MHz	Pass	4.74	-2.54	-3.26	-1.10	8.00
2462MHz	Pass	4.74	-8.56	-9.59	-6.71	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.52	-8.73	-9.81	-7.09	8.00
2437MHz	Pass	4.74	-8.61	-8.38	-6.66	8.00
2452MHz	Pass	4.74	-11.38	-12.87	-10.25	8.00

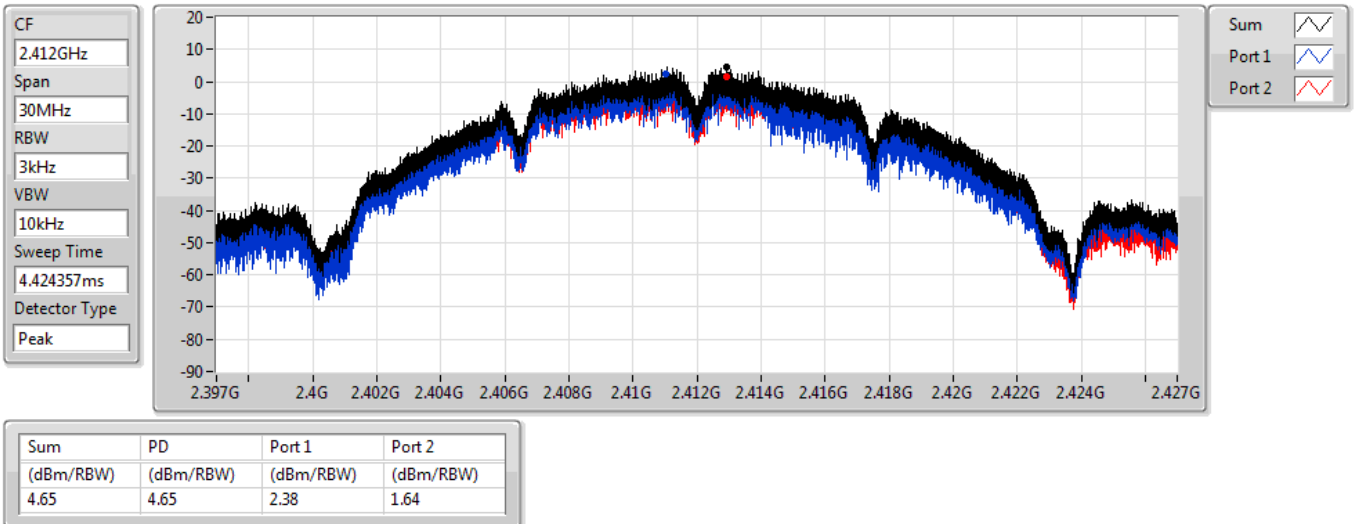
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_2TX

2412MHz

PSD

14/12/2020

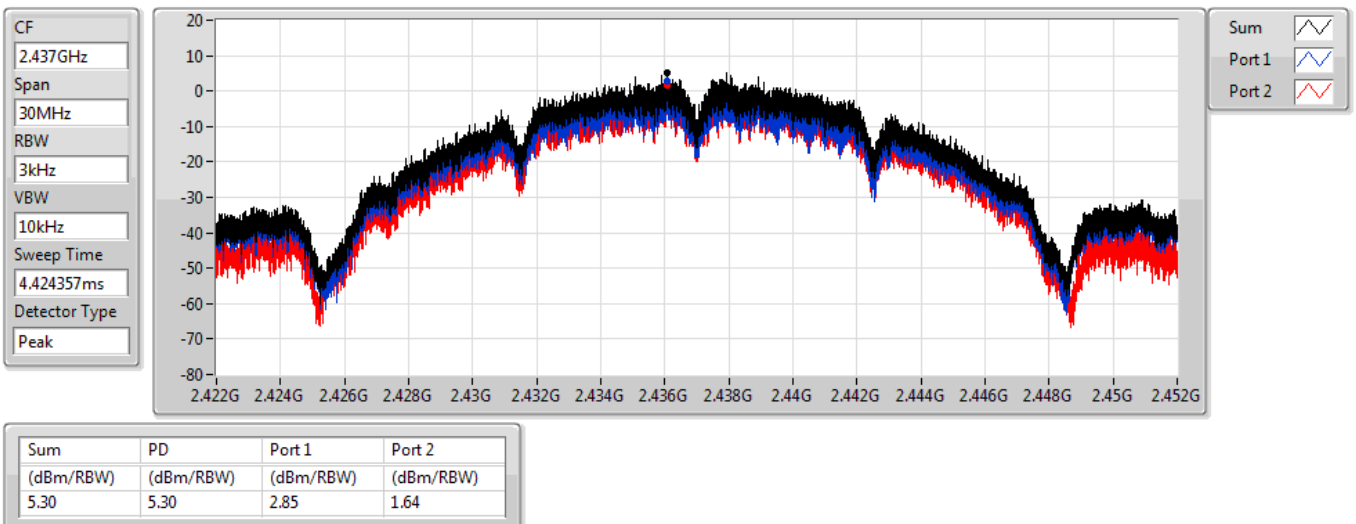


802.11b_Nss1,(1Mbps)_2TX

2437MHz

PSD

14/12/2020

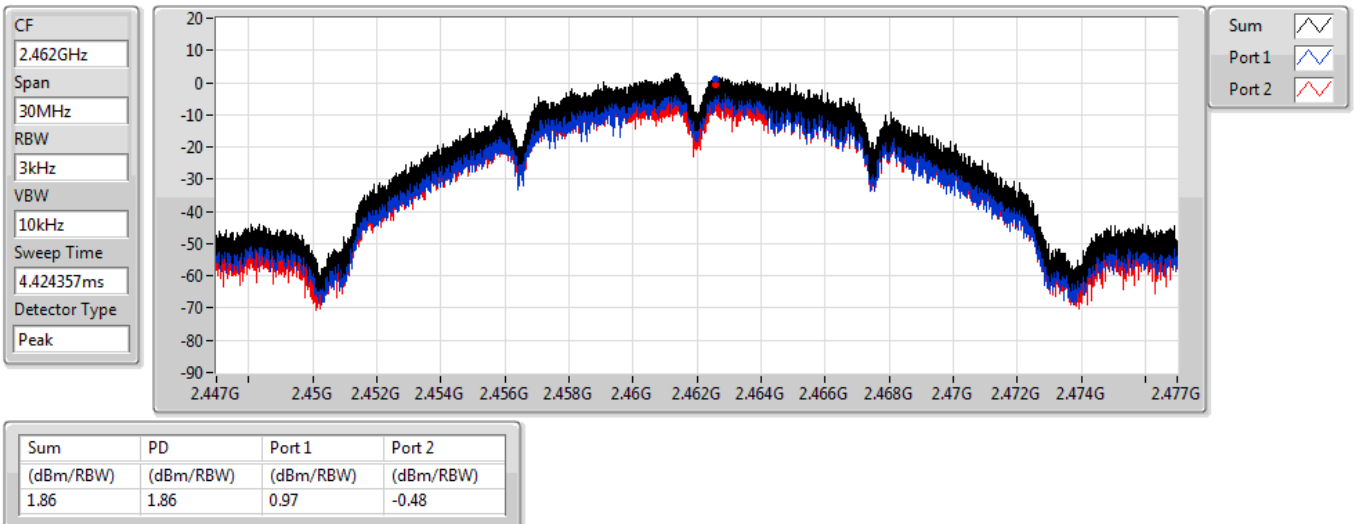


802.11b_Nss1,(1Mbps)_2TX

2462MHz

PSD

14/12/2020

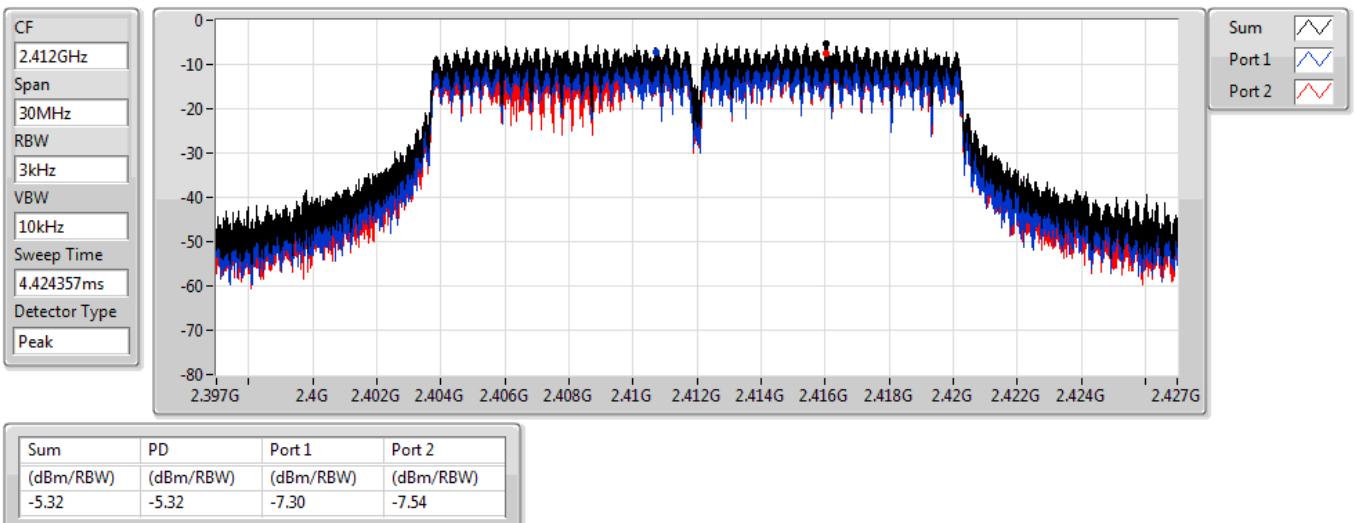


802.11g_Nss1,(6Mbps)_2TX

2412MHz

PSD

14/12/2020

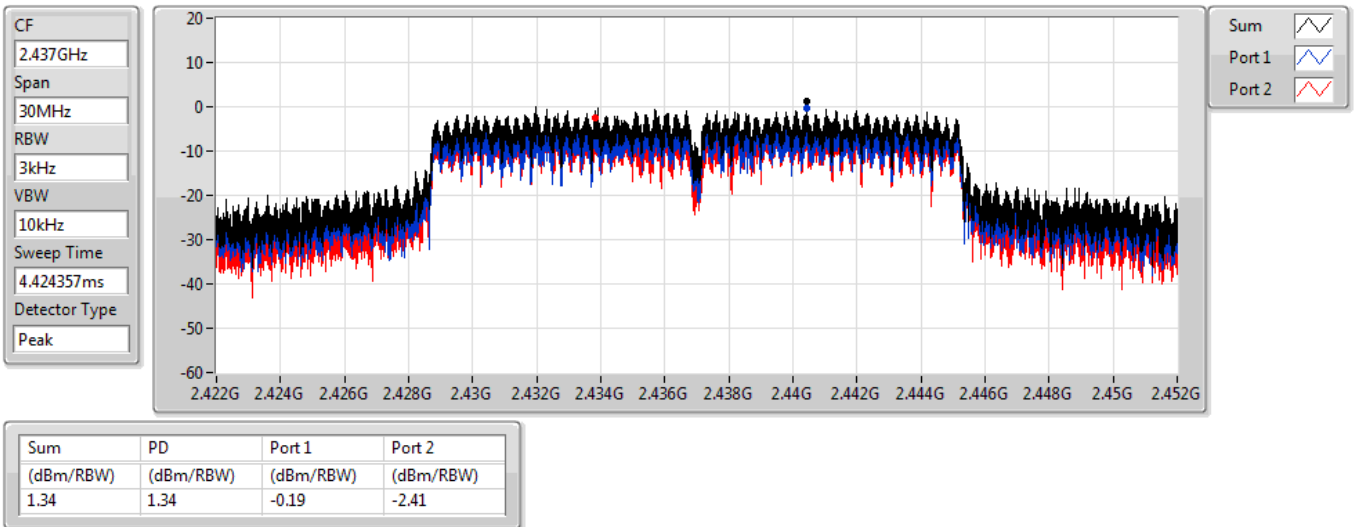


802.11g_Nss1,(6Mbps)_2TX

2437MHz

PSD

14/12/2020

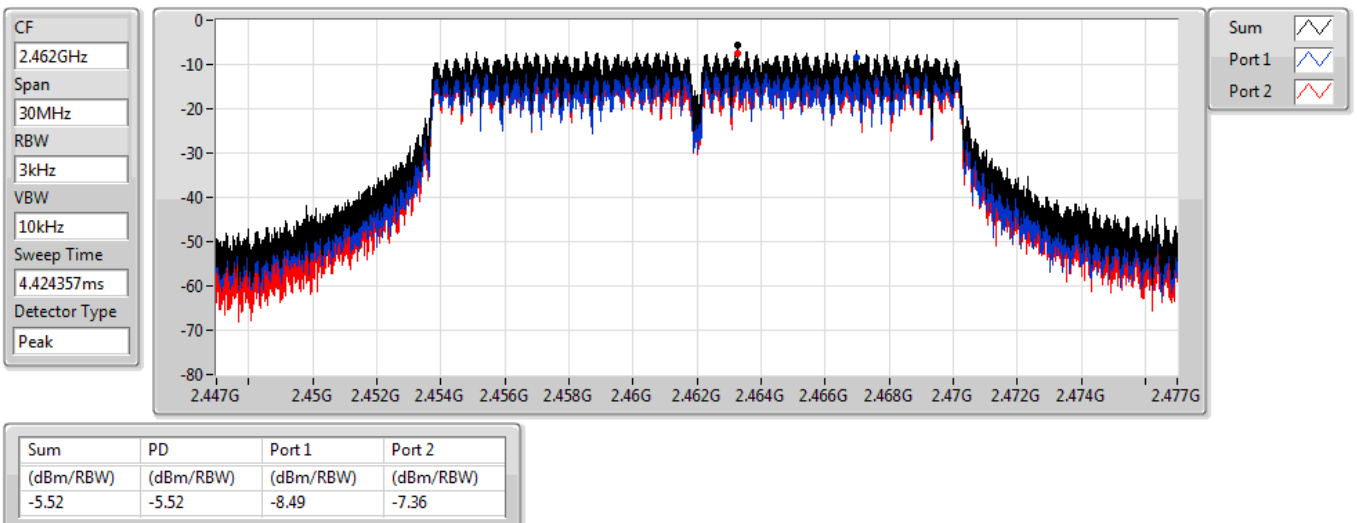


802.11g_Nss1,(6Mbps)_2TX

2462MHz

PSD

14/12/2020

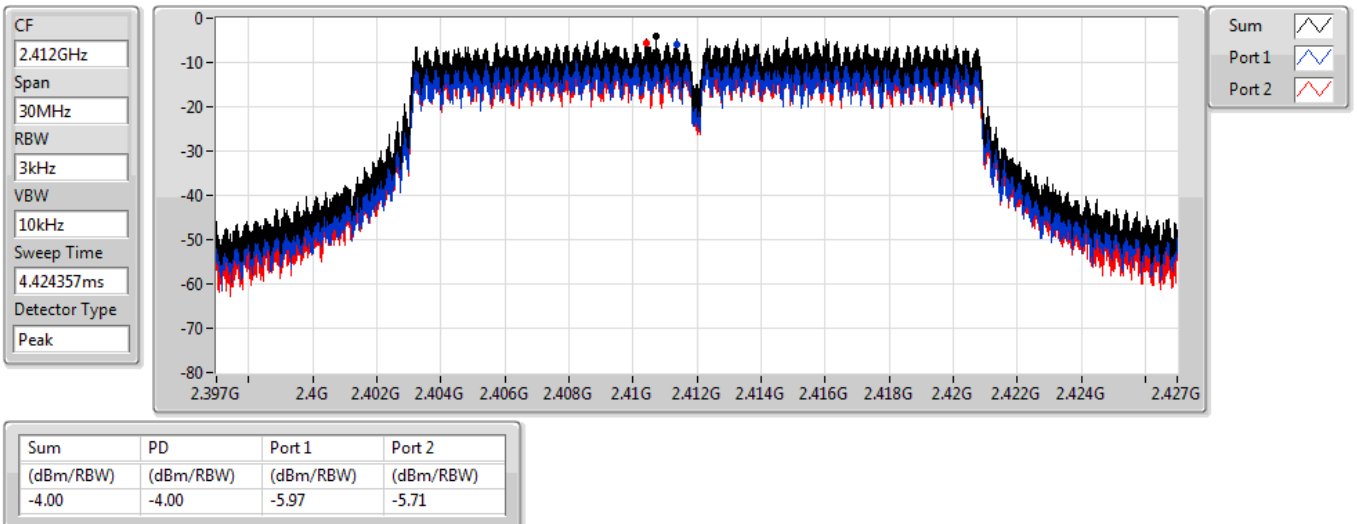


VHT20_Nss1,(MCS0)_2TX

PSD

2412MHz

14/12/2020

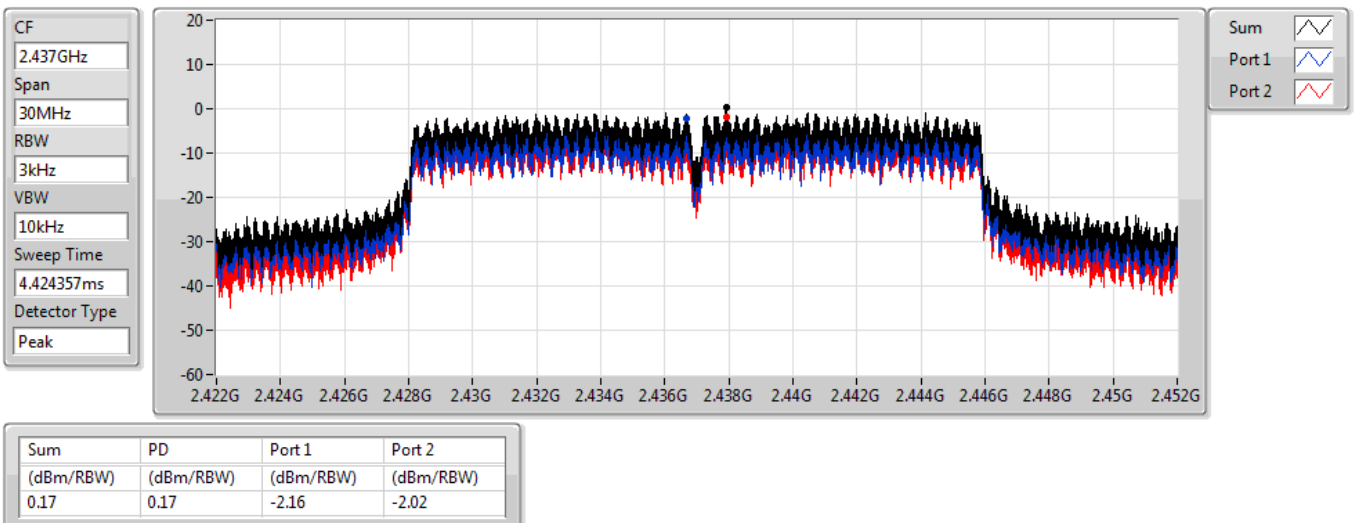


VHT20_Nss1,(MCS0)_2TX

PSD

2437MHz

14/12/2020

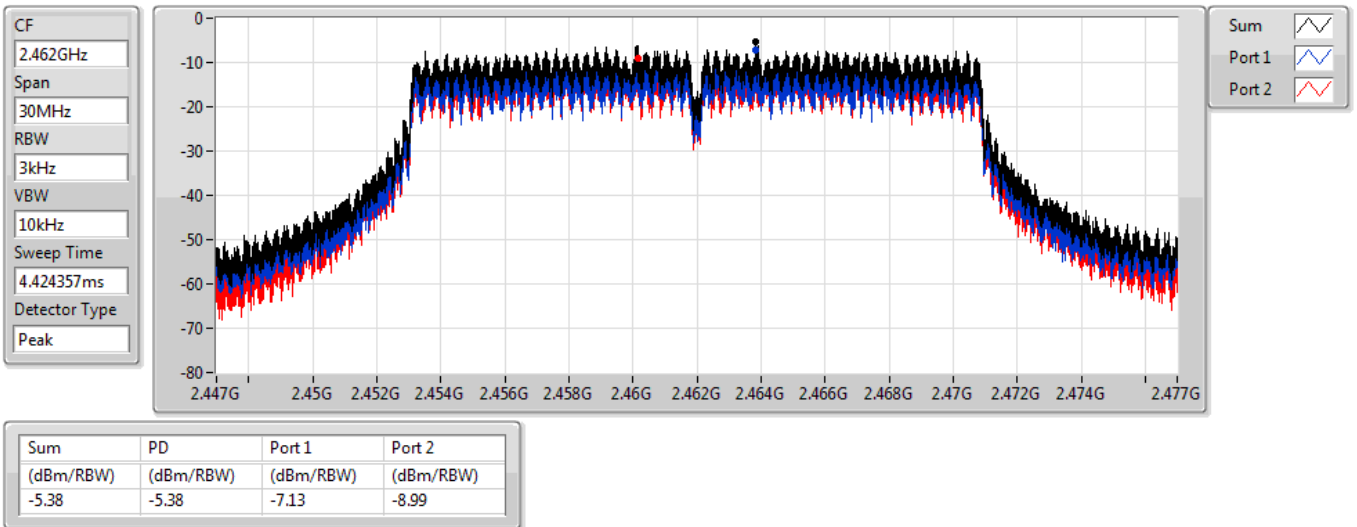


VHT20_Nss1,(MCS0)_2TX

2462MHz

PSD

14/12/2020

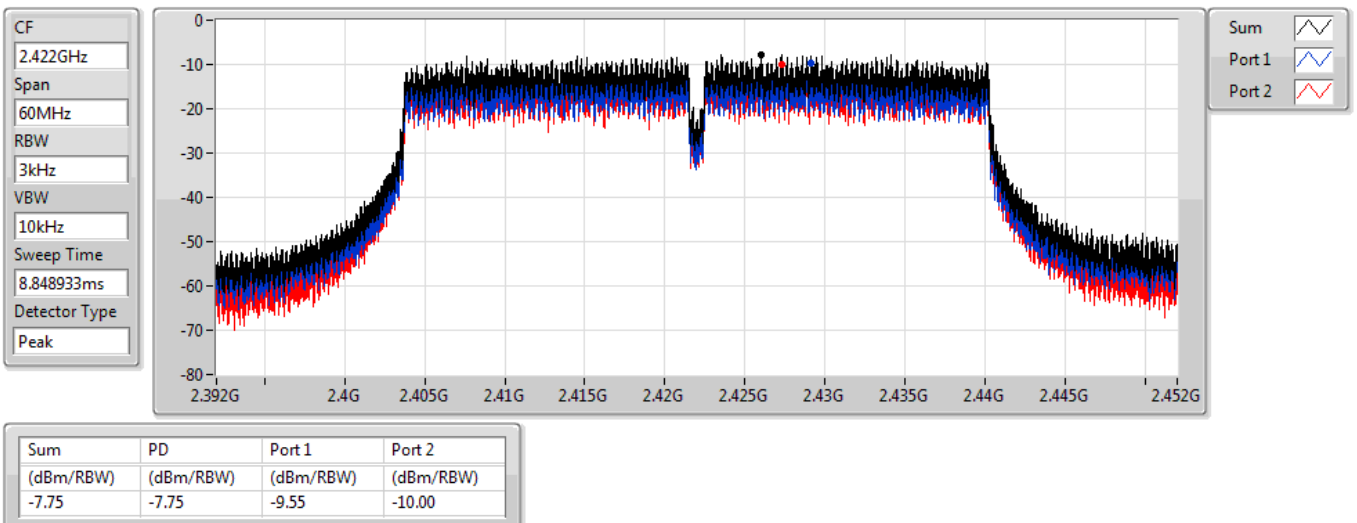


VHT40_Nss1,(MCS0)_2TX

2422MHz

PSD

14/12/2020

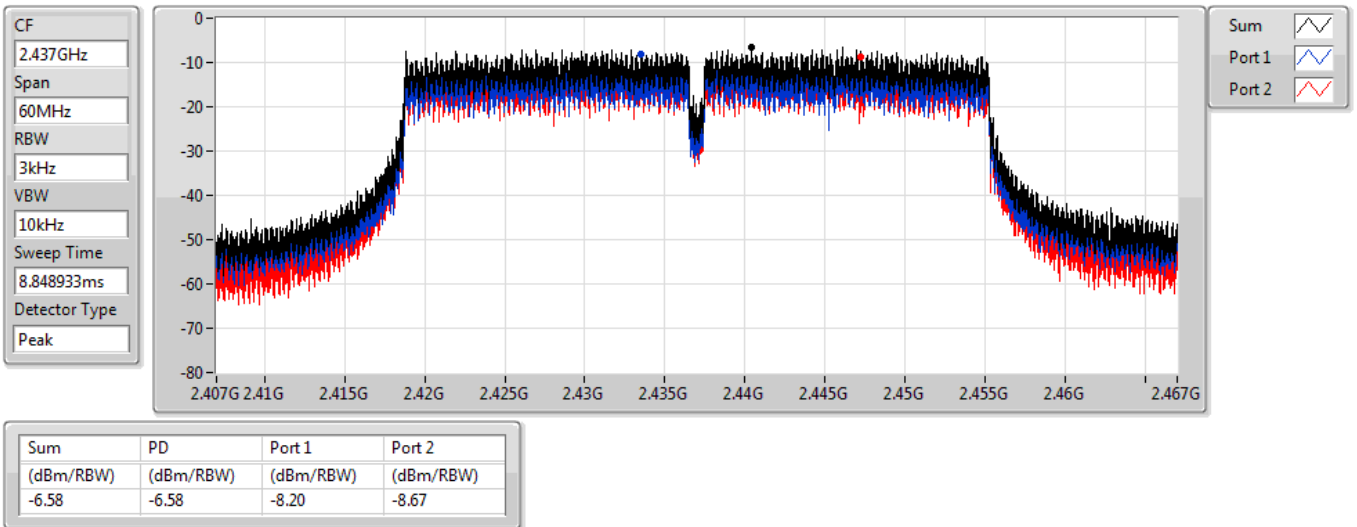


VHT40_Nss1,(MCS0)_2TX

PSD

2437MHz

14/12/2020

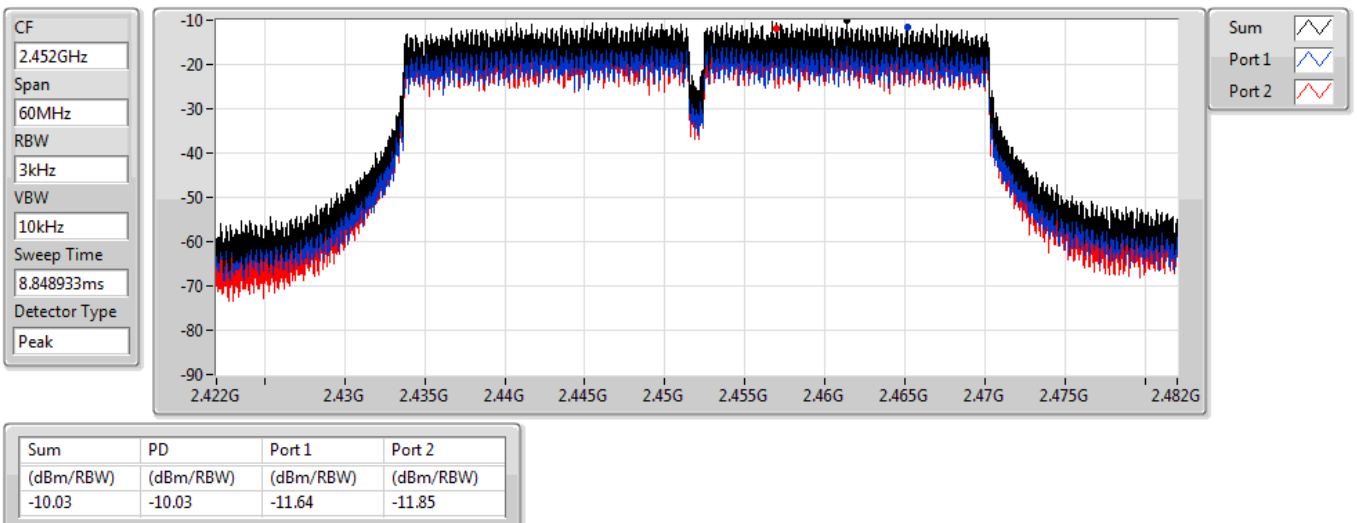


VHT40_Nss1,(MCS0)_2TX

PSD

2452MHz

14/12/2020

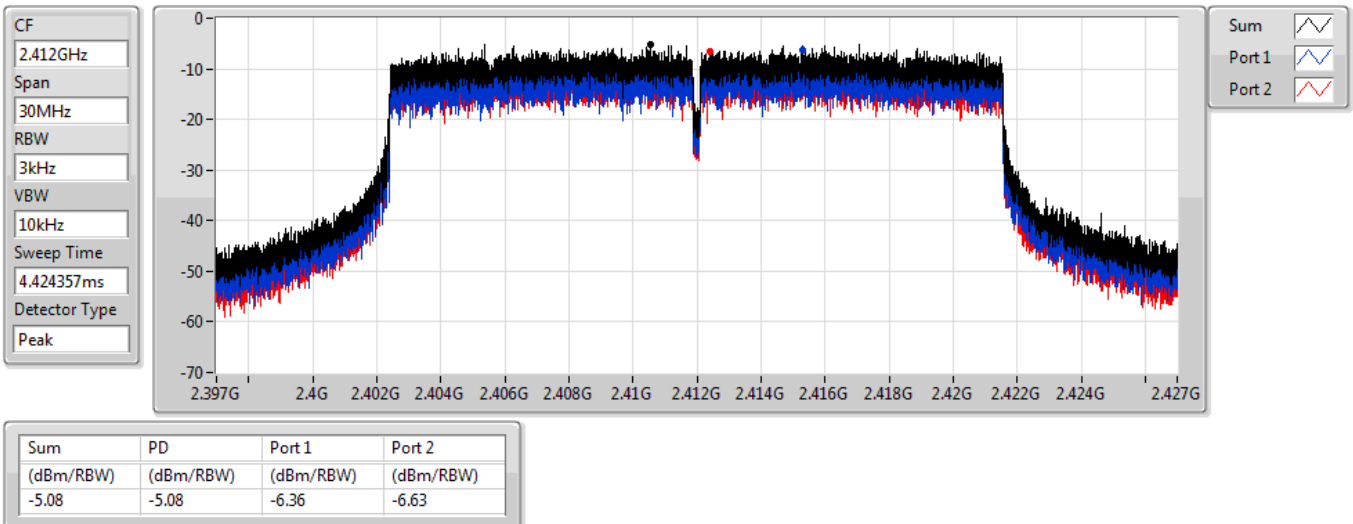


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

14/12/2020

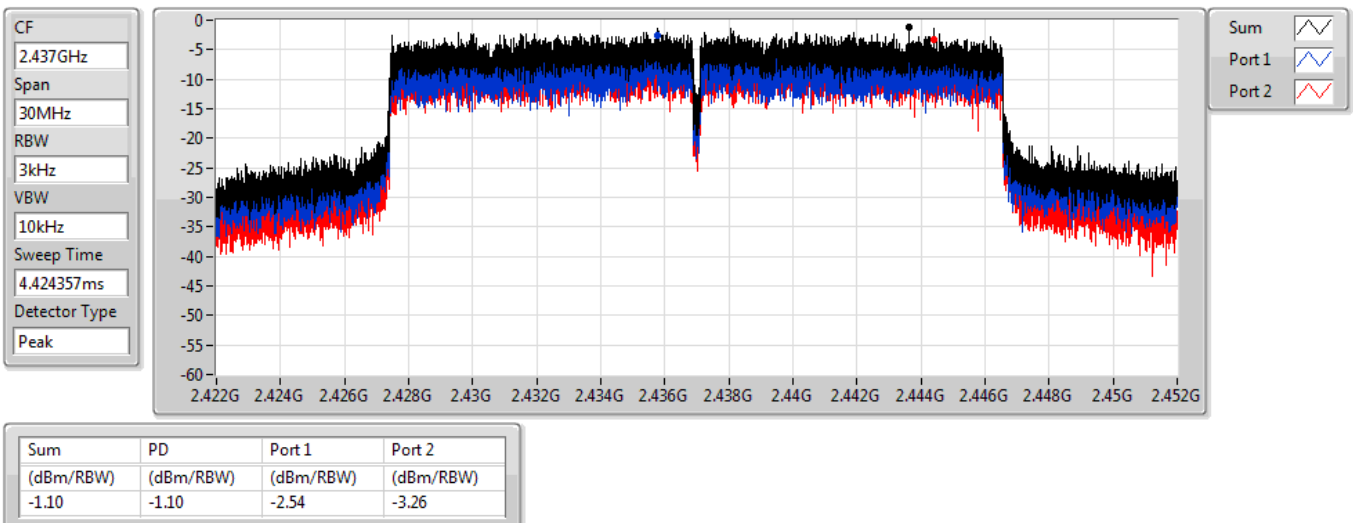


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

14/12/2020

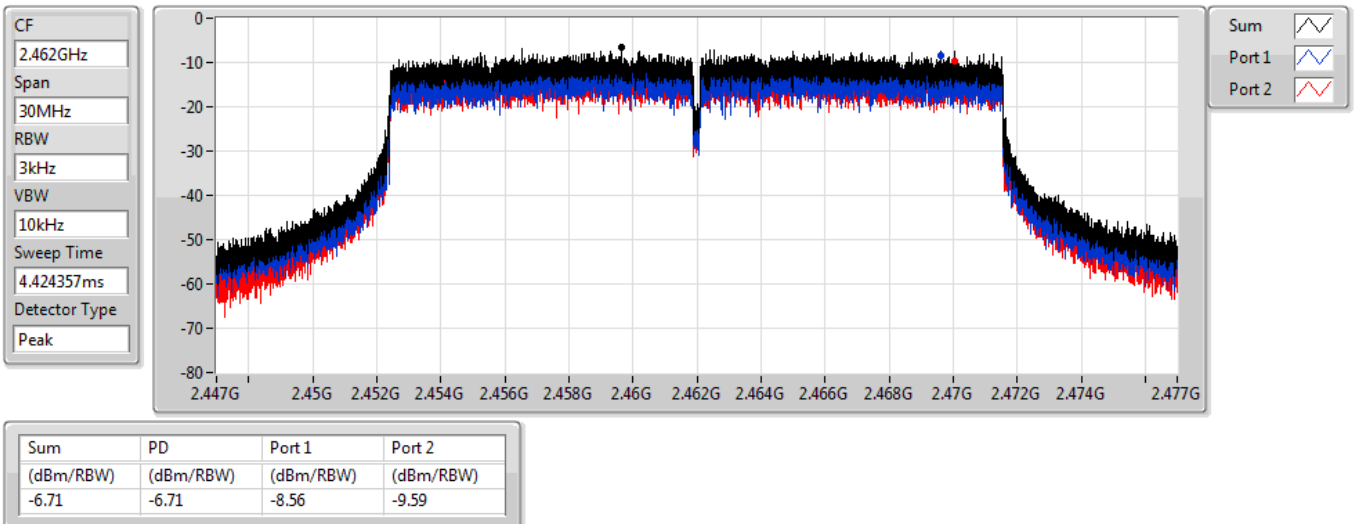


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

14/12/2020

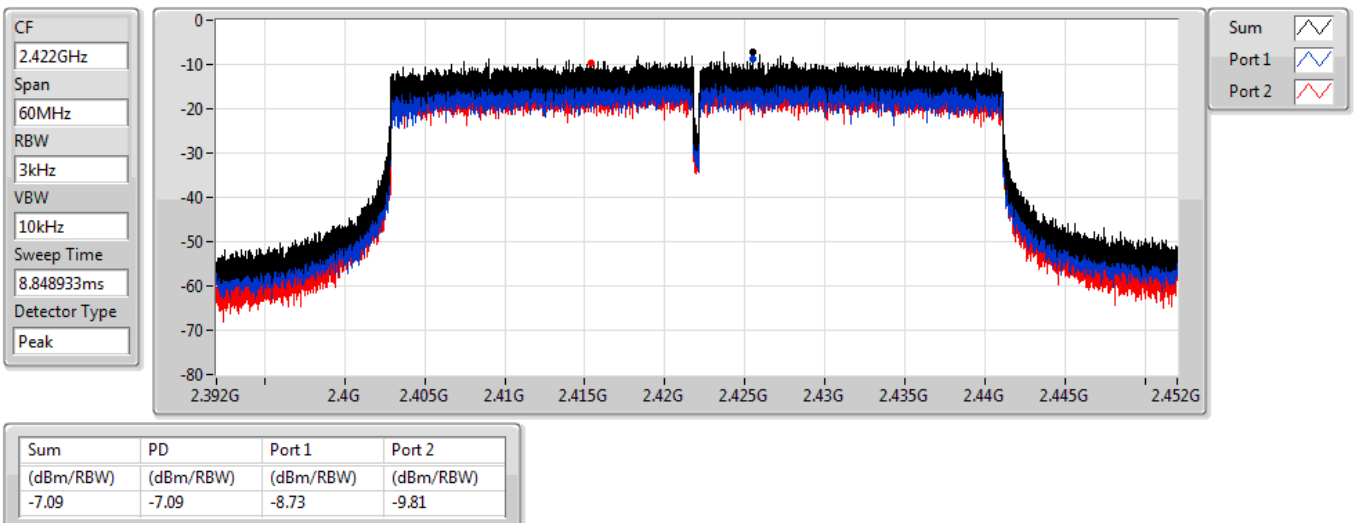


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2422MHz

14/12/2020

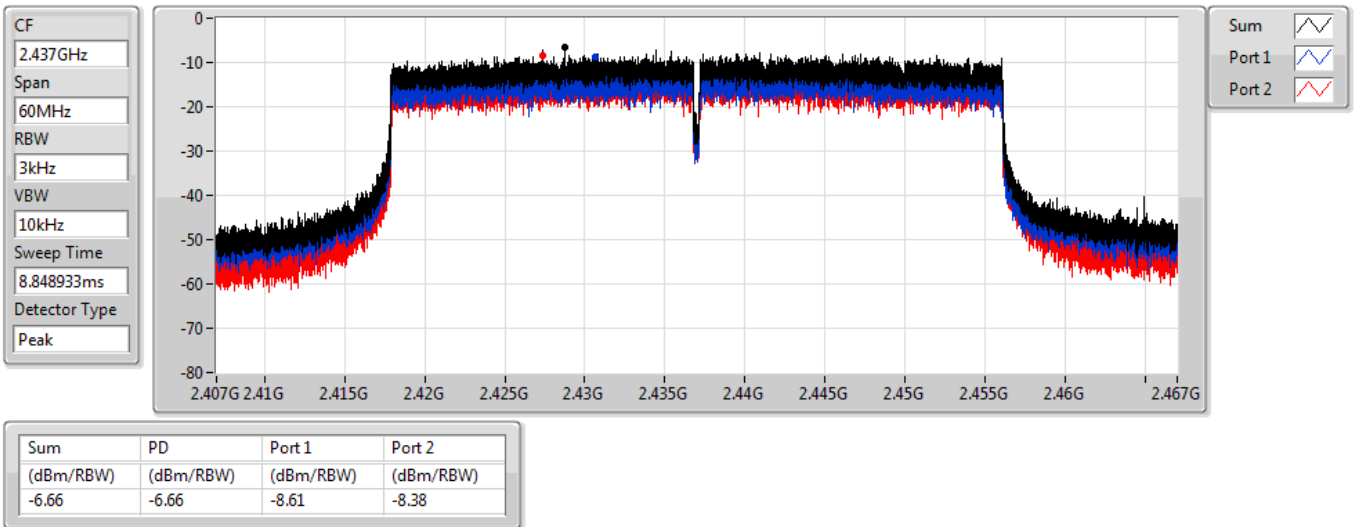


802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz

PSD

14/12/2020

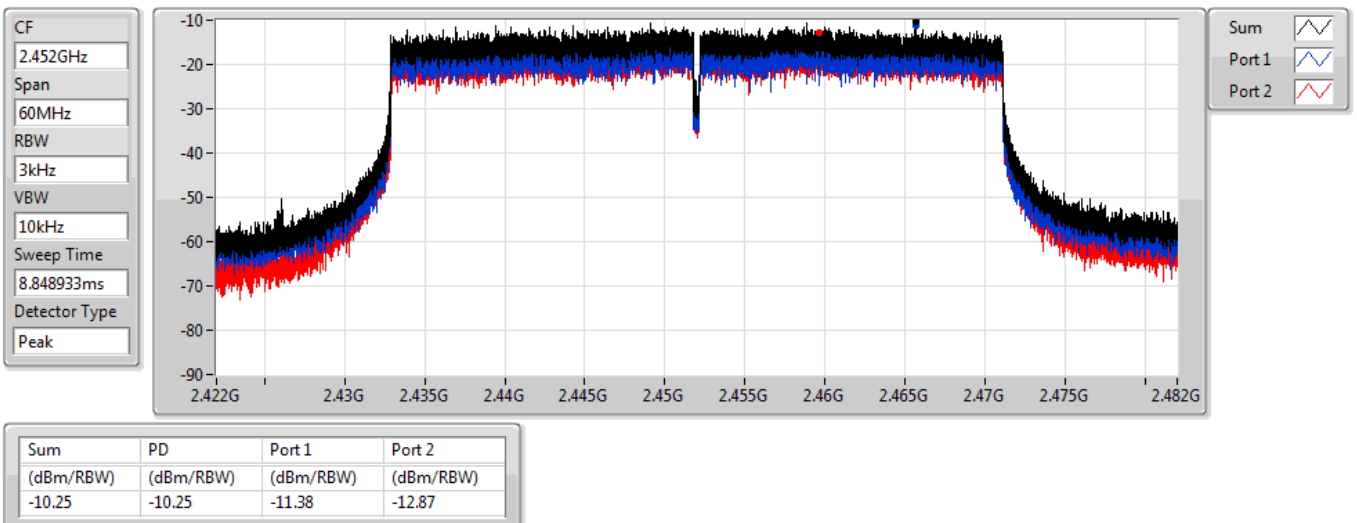


802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz

PSD

14/12/2020





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
VHT20-BF_Nss1,(MCS0)_2TX	-2.71
VHT40-BF_Nss1,(MCS0)_2TX	-3.59
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-3.62
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-6.21

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.52	-7.63	-8.21	-6.95	8.00
2437MHz_TnomVnom	Pass	4.74	-3.06	-5.27	-2.71	8.00
2462MHz_TnomVnom	Pass	4.74	-6.71	-7.24	-5.53	8.00
VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	4.52	-6.33	-8.28	-4.76	8.00
2437MHz_TnomVnom	Pass	4.74	-3.86	-5.43	-3.59	8.00
2452MHz_TnomVnom	Pass	4.74	-7.50	-8.42	-6.24	8.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.52	-9.50	-9.93	-8.10	8.00
2437MHz_TnomVnom	Pass	4.74	-5.34	-4.64	-3.62	8.00
2462MHz_TnomVnom	Pass	4.74	-8.80	-7.44	-6.57	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	4.52	-7.27	-7.92	-7.11	8.00
2437MHz_TnomVnom	Pass	4.74	-9.55	-6.62	-6.21	8.00
2452MHz_TnomVnom	Pass	4.74	-7.27	-10.89	-6.96	8.00

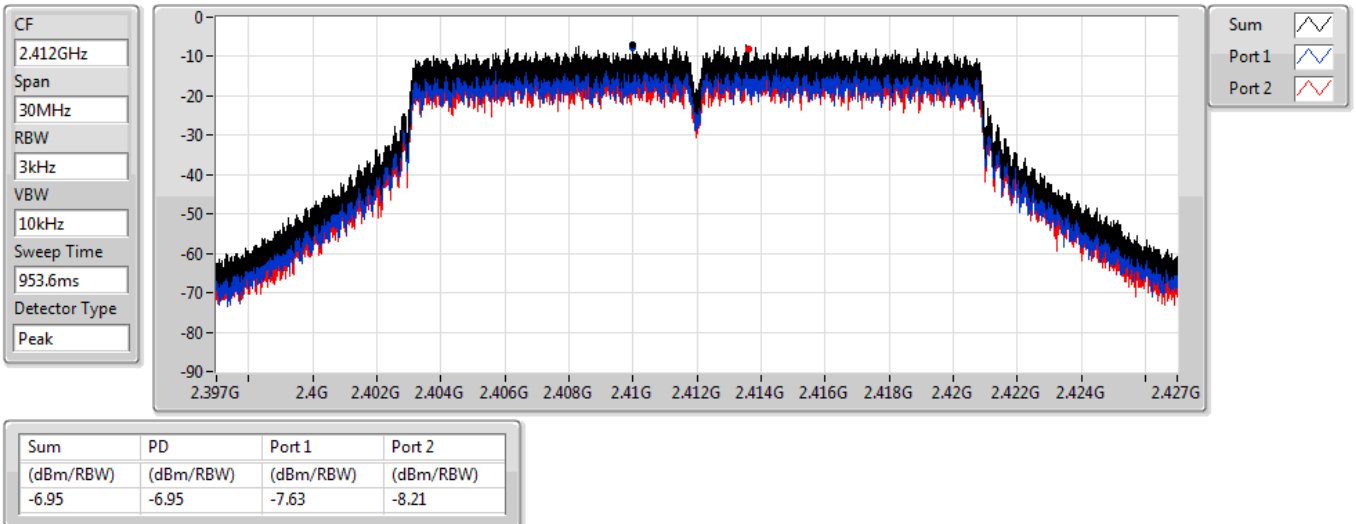
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

VHT20-BF_Nss1,(MCS0)_2TX

2412MHz

PSD

16/12/2020

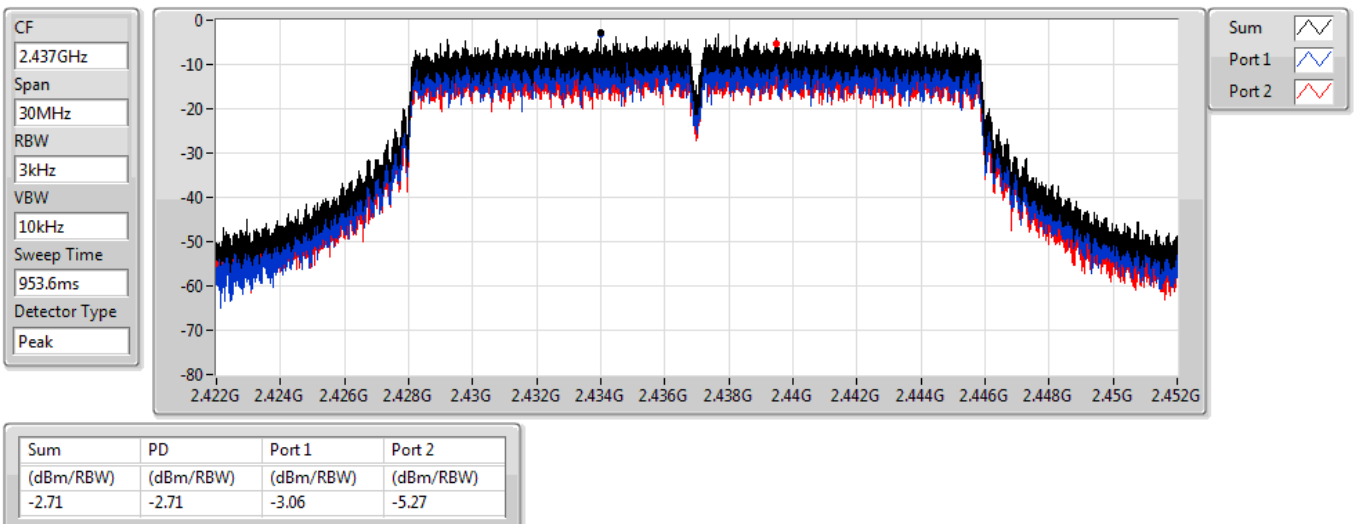


VHT20-BF_Nss1,(MCS0)_2TX

2437MHz

PSD

16/12/2020

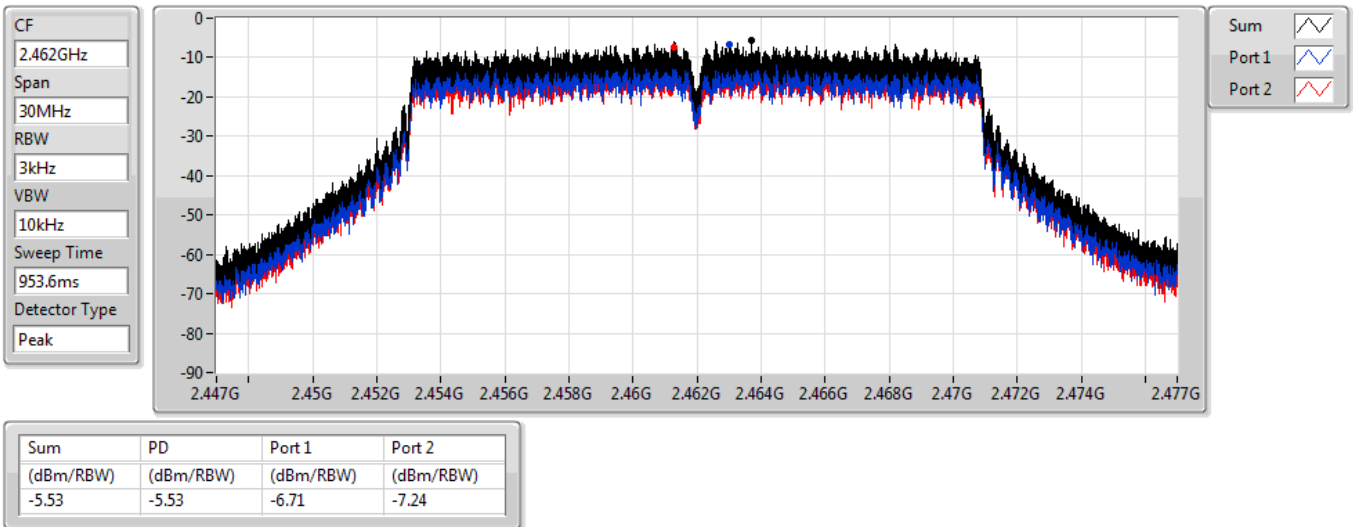


VHT20-BF_Nss1,(MCS0)_2TX

PSD

2462MHz

16/12/2020

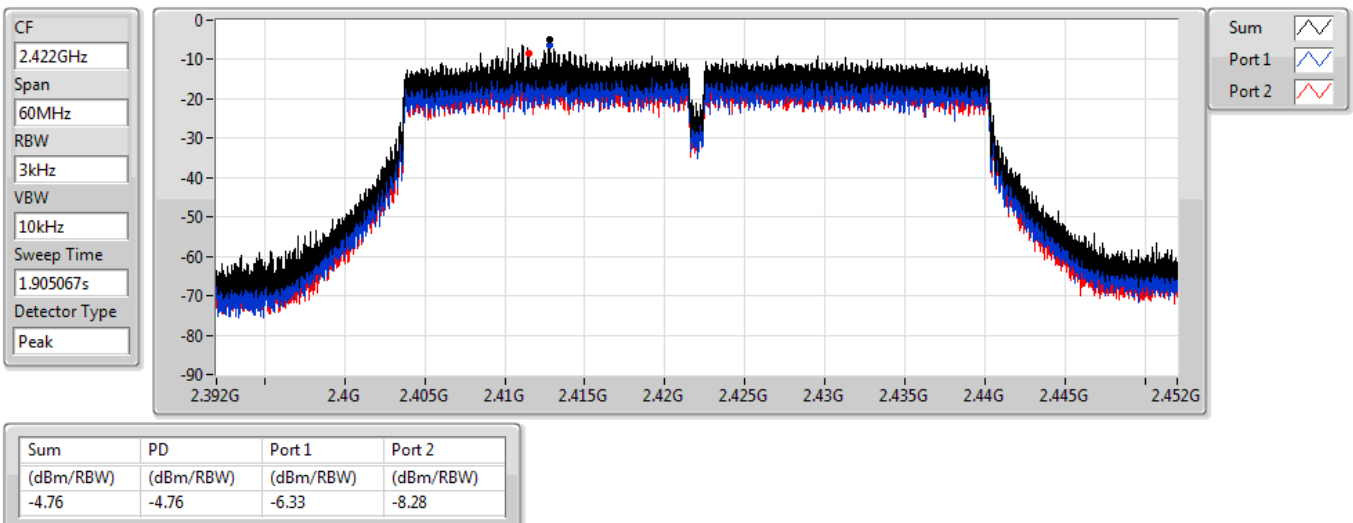


VHT40-BF_Nss1,(MCS0)_2TX

PSD

2422MHz

16/12/2020

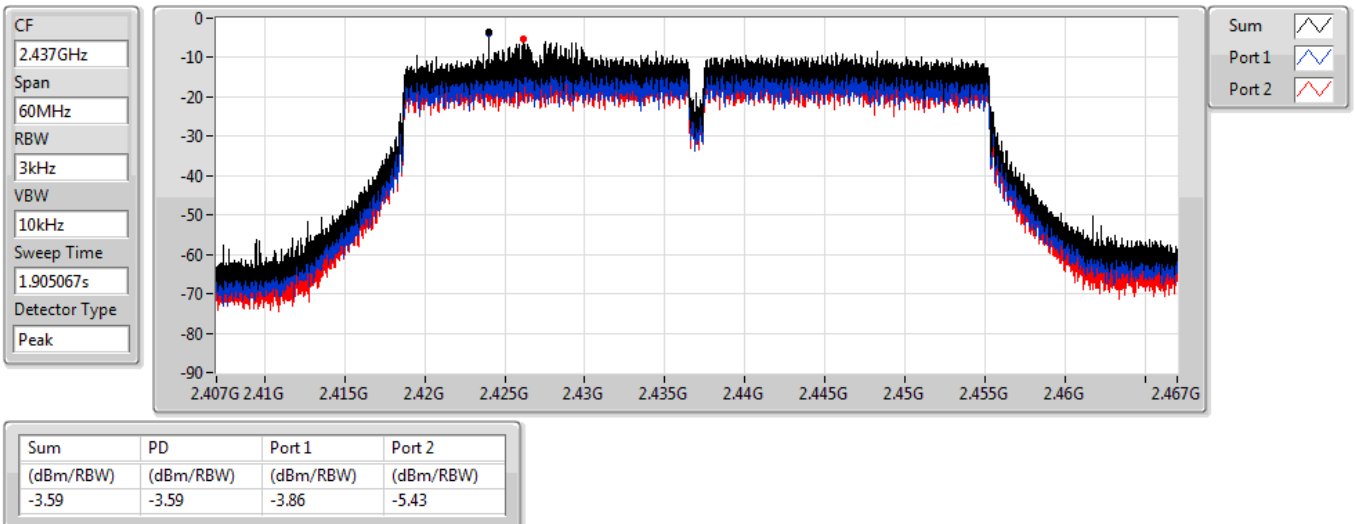


VHT40-BF_Nss1,(MCS0)_2TX

2437MHz

PSD

16/12/2020

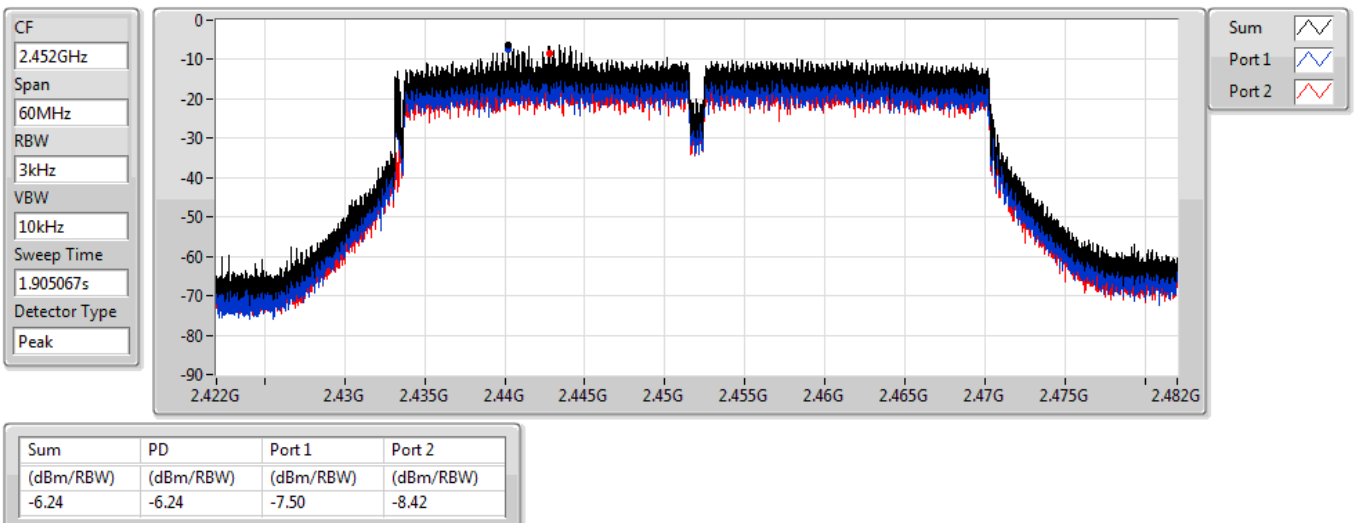


VHT40-BF_Nss1,(MCS0)_2TX

2452MHz

PSD

16/12/2020

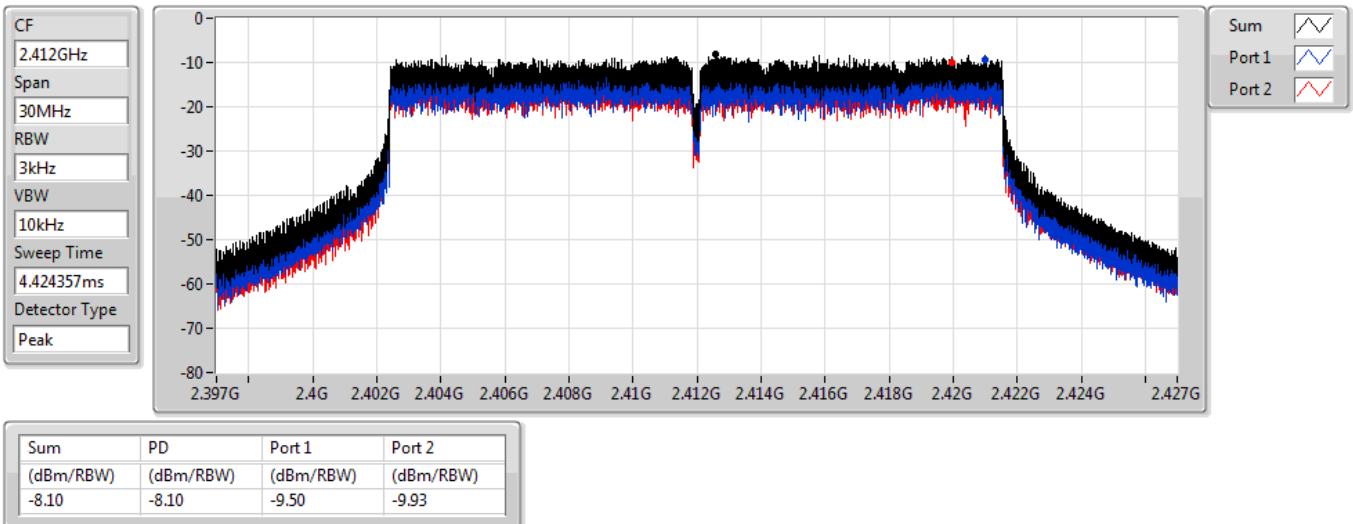


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2412MHz

15/12/2020

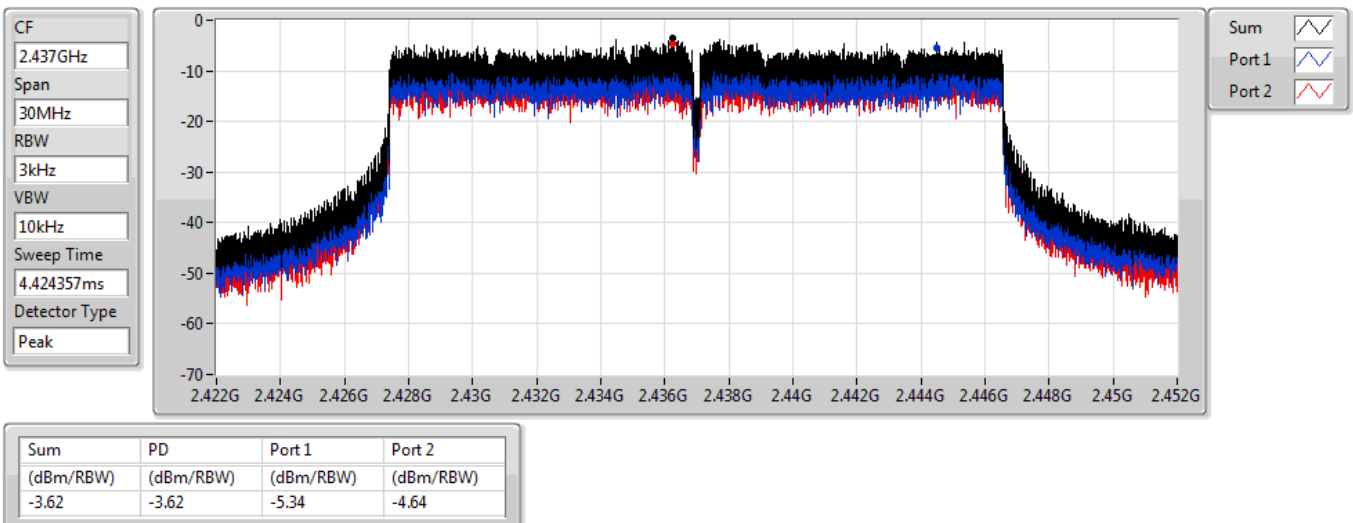


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

15/12/2020

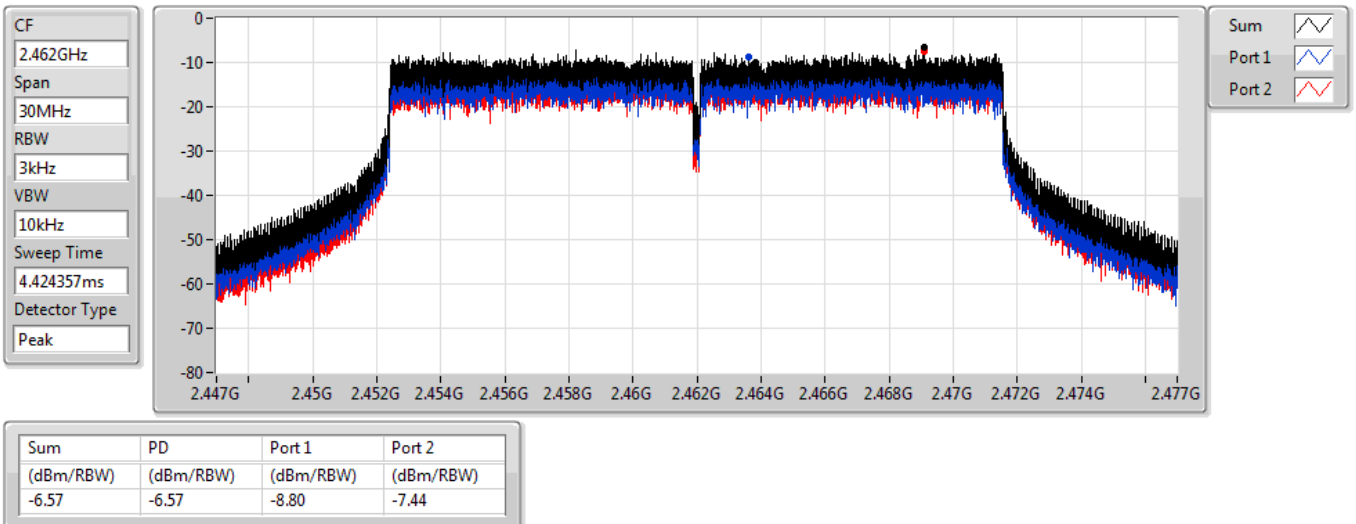


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2462MHz

15/12/2020

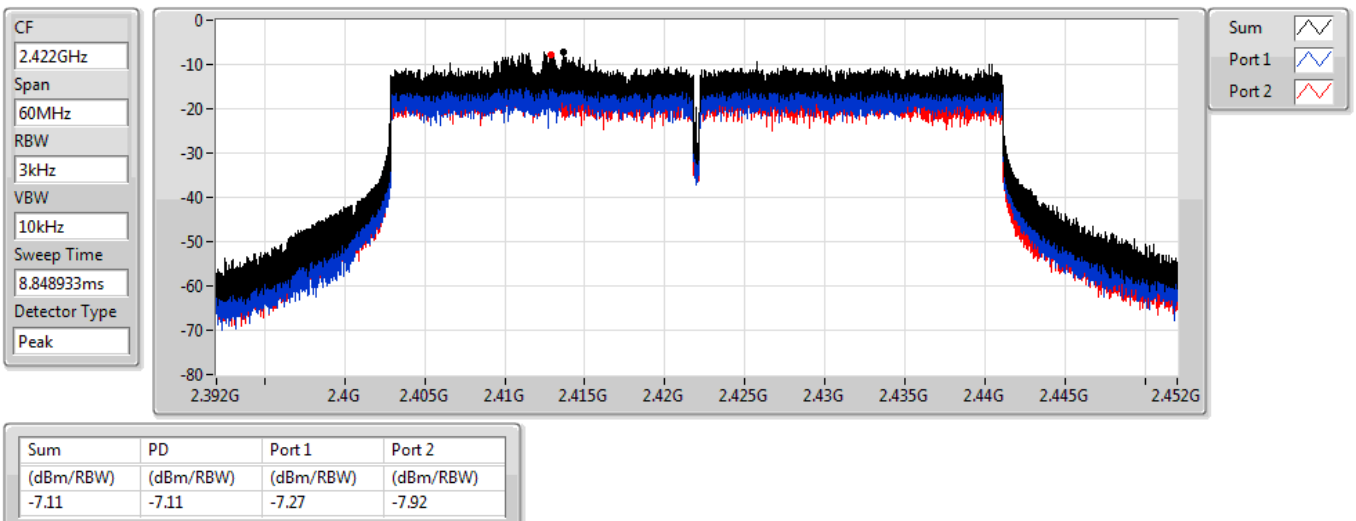


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2422MHz

15/12/2020

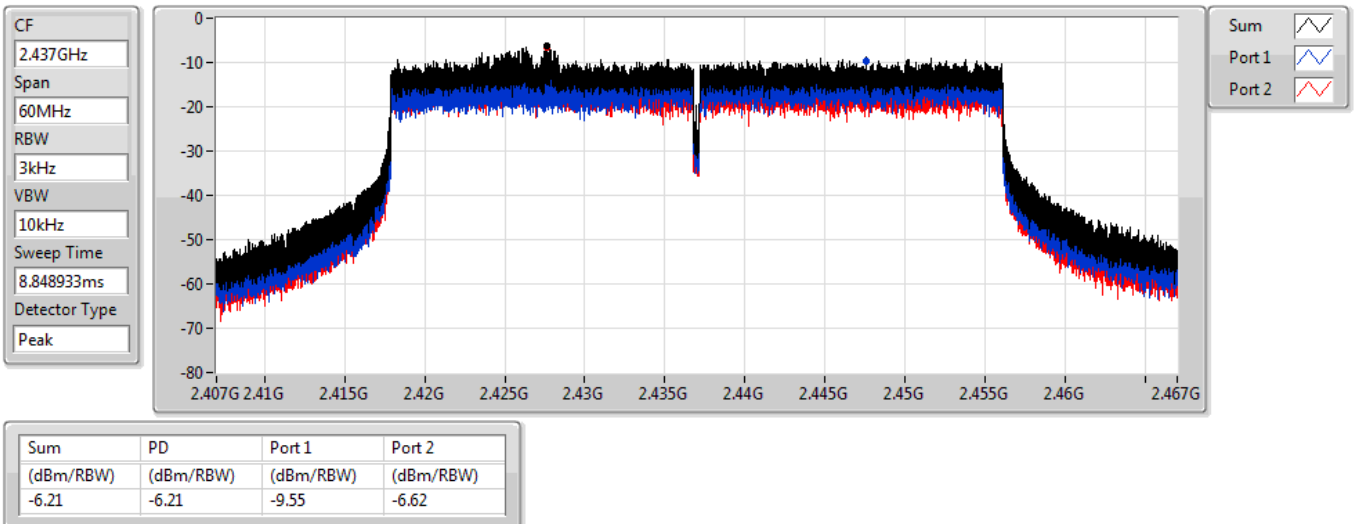


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

15/12/2020

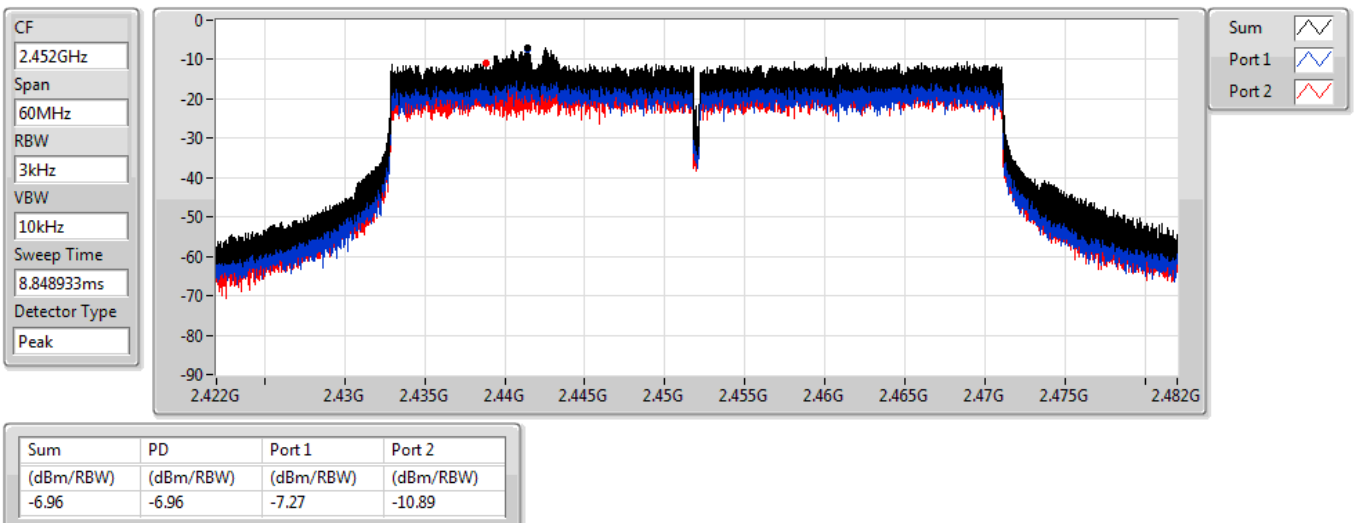


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2452MHz

15/12/2020





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43649G	17.32	-12.68	2.30903G	-52.96	2.398G	-24.14	2.4G	-33.11	2.48534G	-50.16	17.45071G	-42.06	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43202G	14.02	-15.98	2.30466G	-54.39	2.39986G	-26.15	2.4G	-25.49	2.49042G	-51.03	16.48984G	-42.65	1
VHT20_Nss1,(MCS0)_2TX	Pass	2.43574G	13.68	-16.32	2.30088G	-53.61	2.39984G	-27.53	2.4G	-29.07	2.4936G	-51.16	17.45071G	-43.09	1
VHT40_Nss1,(MCS0)_2TX	Pass	2.44075G	6.63	-23.37	2.12478G	-54.32	2.39984G	-32.12	2.4G	-32.92	2.54182G	-48.11	16.38999G	-43.31	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.442G	13.85	-16.15	2.30583G	-53.47	2.39948G	-24.36	2.4G	-25.56	2.48642G	-51.84	16.55446G	-43.15	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.4395G	6.29	-23.71	2.30082G	-50.64	2.4G	-31.01	2.4G	-33.04	2.54226G	-48.04	16.56388G	-42.24	1

Result

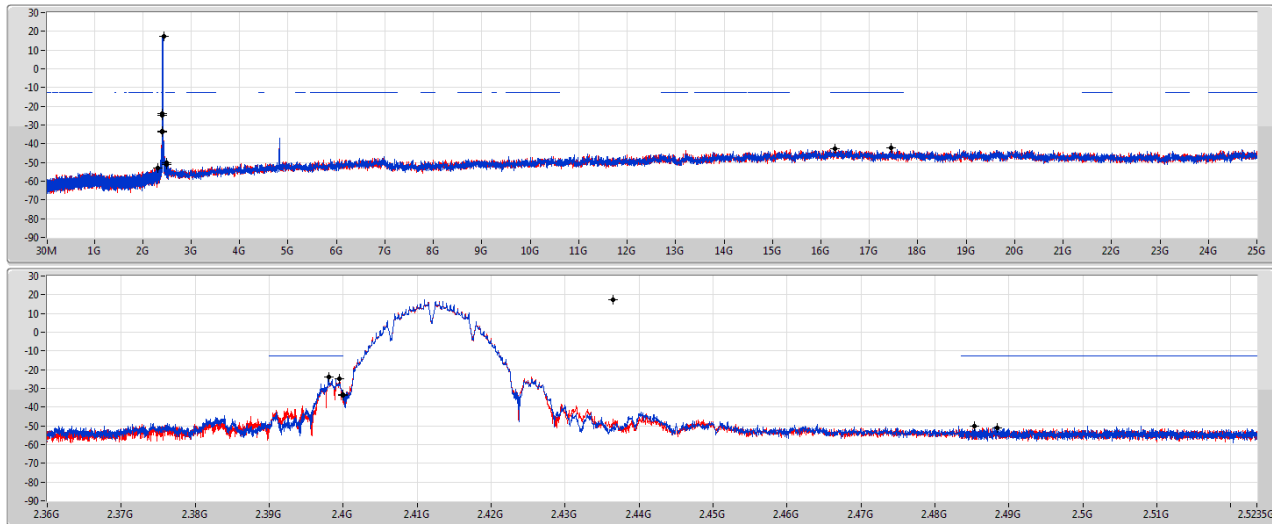
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43649G	17.32	-12.68	2.30903G	-52.96	2.398G	-24.14	2.4G	-33.11	2.48534G	-50.16	17.45071G	-42.06	1
2412MHz	Pass	2.43649G	17.32	-12.68	2.30379G	-53.11	2.39954G	-25.01	2.4G	-33.73	2.48836G	-50.96	16.28755G	-42.64	2
2437MHz	Pass	2.43649G	17.32	-12.68	2.30991G	-54.16	2.39752G	-44.39	2.4G	-49.16	2.48598G	-47.85	24.60385G	-41.70	1
2437MHz	Pass	2.43649G	17.32	-12.68	2.30466G	-53.05	2.39902G	-48.47	2.4G	-50.80	2.4837G	-49.56	16.52636G	-43.29	2
2462MHz	Pass	2.43649G	17.32	-12.68	2.12817G	-53.57	2.39494G	-53.04	2.4835G	-51.03	2.48994G	-43.85	16.92251G	-42.87	1
2462MHz	Pass	2.43649G	17.32	-12.68	2.30961G	-54.87	2.393G	-52.23	2.4835G	-53.72	2.48896G	-43.52	16.88317G	-42.76	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43202G	14.02	-15.98	2.30466G	-54.39	2.39986G	-26.15	2.4G	-25.49	2.49042G	-51.03	16.48984G	-42.65	1
2412MHz	Pass	2.43202G	14.02	-15.98	2.15991G	-54.55	2.39964G	-26.84	2.4G	-28.03	2.51848G	-50.85	16.96746G	-43.41	2
2437MHz	Pass	2.43202G	14.02	-15.98	2.30408G	-53.74	2.39948G	-31.56	2.4G	-34.67	2.4845G	-39.55	16.38588G	-42.47	1
2437MHz	Pass	2.43202G	14.02	-15.98	2.30088G	-53.51	2.39988G	-35.76	2.4G	-38.56	2.48414G	-42.90	24.60104G	-43.46	2
2462MHz	Pass	2.43202G	14.02	-15.98	2.12846G	-54.99	2.39574G	-52.06	2.4835G	-41.67	2.48352G	-41.29	16.5685G	-41.93	1
2462MHz	Pass	2.43202G	14.02	-15.98	2.1937G	-53.78	2.3926G	-52.58	2.4835G	-43.64	2.48392G	-43.73	16.93375G	-42.41	2
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	13.68	-16.32	2.30088G	-53.61	2.39984G	-27.53	2.4G	-29.07	2.4936G	-51.16	17.45071G	-43.09	1
2412MHz	Pass	2.43574G	13.68	-16.32	1.98691G	-54.44	2.3999G	-27.61	2.4G	-29.42	2.50318G	-51.39	16.86913G	-42.94	2
2437MHz	Pass	2.43574G	13.68	-16.32	2.3035G	-54.36	2.39884G	-38.21	2.4G	-40.14	2.48354G	-43.20	16.41398G	-42.34	1
2437MHz	Pass	2.43574G	13.68	-16.32	2.30437G	-54.11	2.39916G	-40.48	2.4G	-42.59	2.4857G	-46.31	16.53198G	-42.65	2
2462MHz	Pass	2.43574G	13.68	-16.32	2.30408G	-54.85	2.3986G	-52.98	2.4835G	-41.51	2.4842G	-40.77	14.39671G	-43.20	1
2462MHz	Pass	2.43574G	13.68	-16.32	2.09962G	-53.95	2.39572G	-52.39	2.4835G	-43.54	2.4835G	-43.16	24.65442G	-42.85	2
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44075G	6.63	-23.37	2.12478G	-54.32	2.39984G	-32.12	2.4G	-32.92	2.54182G	-48.11	16.38999G	-43.31	1
2422MHz	Pass	2.44075G	6.63	-23.37	2.30197G	-54.16	2.3998G	-32.86	2.4G	-35.85	2.52694G	-51.47	16.54144G	-42.78	2
2437MHz	Pass	2.44075G	6.63	-23.37	2.30597G	-53.29	2.3998G	-35.95	2.4G	-38.18	2.48382G	-40.79	16.5807G	-42.15	1
2437MHz	Pass	2.44075G	6.63	-23.37	746.77M	-54.05	2.39948G	-39.84	2.4G	-40.66	2.48386G	-42.85	16.30866G	-42.10	2
2452MHz	Pass	2.44075G	6.63	-23.37	2.07612G	-53.90	2.3978G	-51.67	2.4835G	-39.60	2.48442G	-38.58	16.42084G	-41.92	1
2452MHz	Pass	2.44075G	6.63	-23.37	2.30368G	-53.65	2.39904G	-52.42	2.4835G	-42.52	2.48758G	-41.13	16.61436G	-42.38	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	13.85	-16.15	2.30583G	-53.47	2.39948G	-24.36	2.4G	-25.56	2.48642G	-51.84	16.55446G	-43.15	1
2412MHz	Pass	2.442G	13.85	-16.15	2.30408G	-54.23	2.39916G	-26.75	2.4G	-27.37	2.5087G	-51.55	16.60503G	-42.64	2
2437MHz	Pass	2.442G	13.85	-16.15	2.30204G	-53.89	2.39844G	-34.82	2.4G	-38.91	2.4864G	-43.05	15.20587G	-42.85	1
2437MHz	Pass	2.442G	13.85	-16.15	2.30495G	-52.30	2.39846G	-37.34	2.4G	-40.98	2.48436G	-44.81	16.29317G	-43.05	2
2462MHz	Pass	2.442G	13.85	-16.15	2.08768G	-53.72	2.39252G	-52.65	2.4835G	-42.83	2.48372G	-40.04	16.31564G	-42.99	1
2462MHz	Pass	2.442G	13.85	-16.15	2.30321G	-53.97	2.39328G	-52.83	2.4835G	-42.41	2.48378G	-41.09	16.29317G	-42.72	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.4395G	6.29	-23.71	2.30082G	-50.64	2.4G	-31.01	2.4G	-33.04	2.54226G	-48.04	16.56388G	-42.24	1
2422MHz	Pass	2.4395G	6.29	-23.71	2.30168G	-54.49	2.39968G	-32.25	2.4G	-32.79	2.5201G	-50.73	17.59596G	-42.78	2
2437MHz	Pass	2.4395G	6.29	-23.71	2.30397G	-52.32	2.39896G	-33.10	2.4G	-36.78	2.48386G	-39.00	24.58773G	-42.44	1
2437MHz	Pass	2.4395G	6.29	-23.71	2.30397G	-53.38	2.39928G	-38.80	2.4G	-40.89	2.48502G	-41.83	16.54985G	-42.85	2
2452MHz	Pass	2.4395G	6.29	-23.71	2.30826G	-54.42	2.39852G	-51.72	2.4835G	-42.37	2.4857G	-38.47	16.53863G	-42.71	1
2452MHz	Pass	2.4395G	6.29	-23.71	2.30884G	-53.33	2.39972G	-51.97	2.4835G	-43.65	2.4857G	-40.58	16.52181G	-41.86	2

802.11b_Nss1,(1Mbps)_2TX

2412MHz

CSENdB

14/12/2020



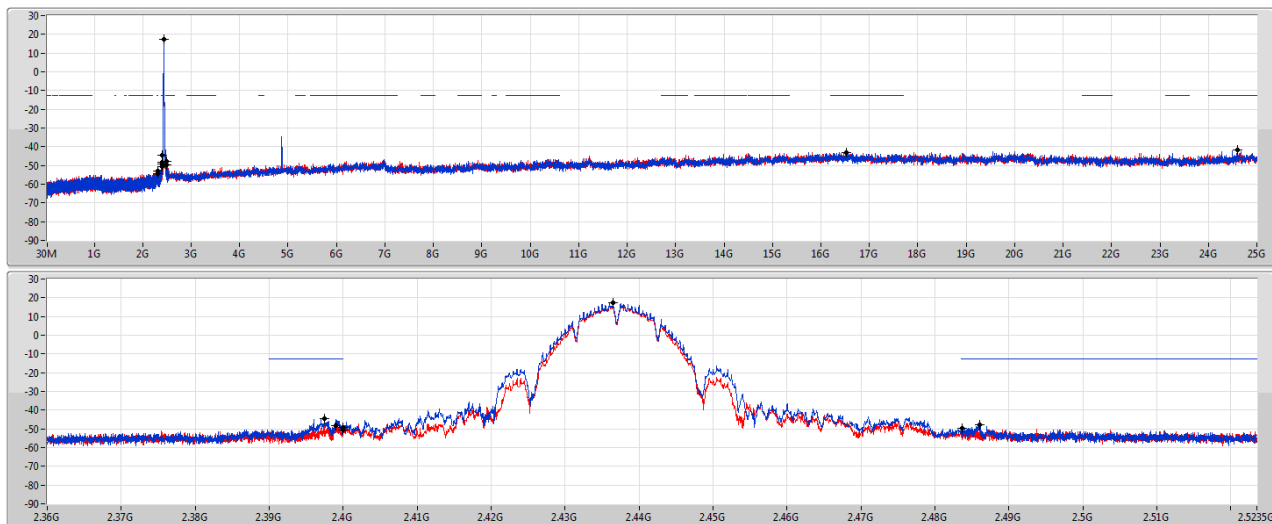
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2.43649G	17.32	-12.68	2.30903G	-52.96	2.398G	-24.14	2.4G	-33.11	2.48534G	-50.16	17.45071G	-42.06	1
2.43649G	17.32	-12.68	2.30379G	-53.11	2.39954G	-25.01	2.4G	-33.73	2.48836G	-50.96	16.28755G	-42.64	2

802.11b_Nss1,(1Mbps)_2TX

2437MHz

CSENdB

14/12/2020

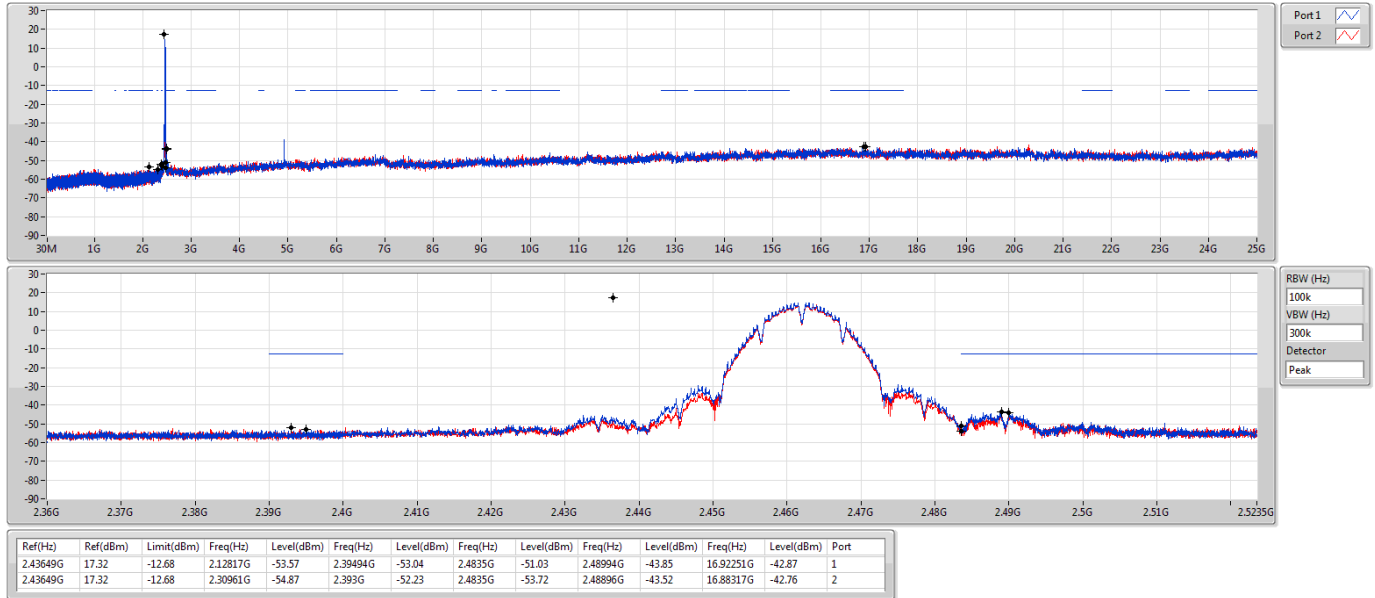


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43649G	17.32	-12.68	2.30991G	-54.16	2.39752G	-44.39	2.4G	-49.16	2.48598G	-47.85	24.60385G	-41.70	1
2.43649G	17.32	-12.68	2.30466G	-53.05	2.39902G	-48.47	2.4G	-50.80	2.4837G	-49.56	16.52636G	-43.29	2

802.11b_Nss1,(1Mbps)_2TX

2462MHz

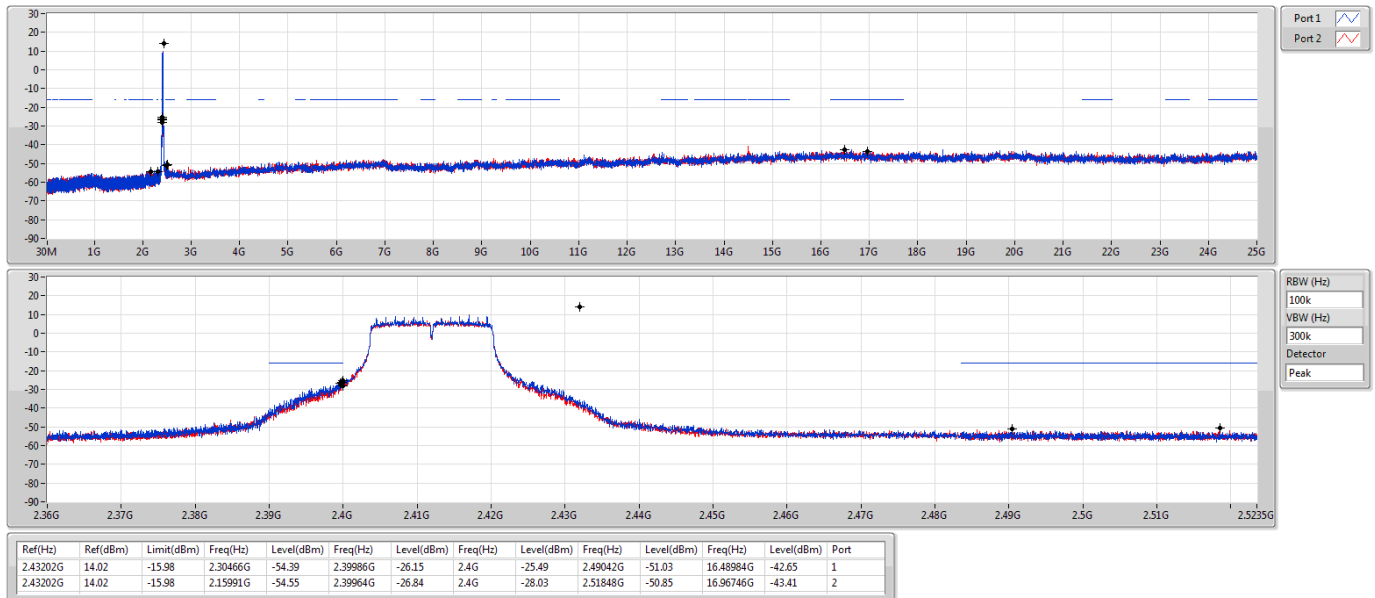
CSENdB



802.11g_Nss1,(6Mbps)_2TX

2412MHz

CSENdB

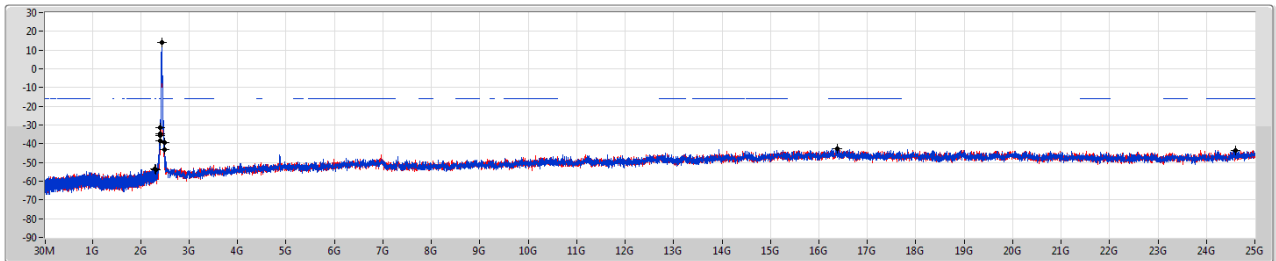


802.11g_Nss1,(6Mbps)_2TX

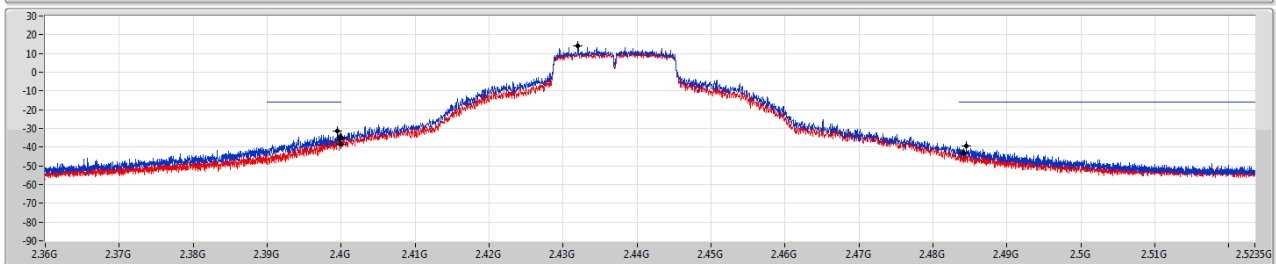
2437MHz

CSENdB

14/12/2020



Port 1
Port 2



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

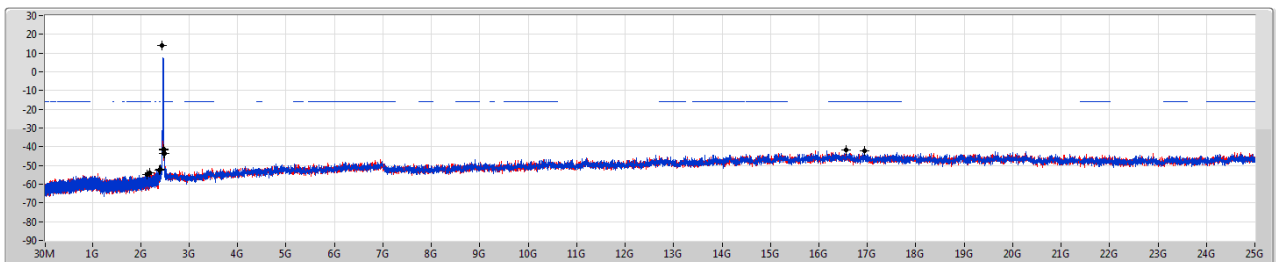
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2.43202G	14.02	-15.98	2.30408G	-53.74	2.39948G	-31.56	2.4G	-34.67	2.4845G	-39.55	16.38588G	-42.47	1
2.43202G	14.02	-15.98	2.30088G	-53.51	2.39988G	-35.76	2.4G	-38.56	2.48414G	-42.90	24.60104G	-43.46	2

802.11g_Nss1,(6Mbps)_2TX

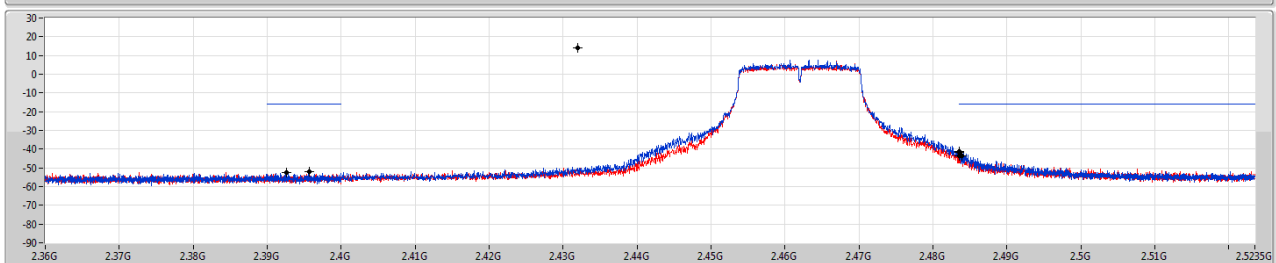
2462MHz

CSENdB

14/12/2020



Port 1
Port 2



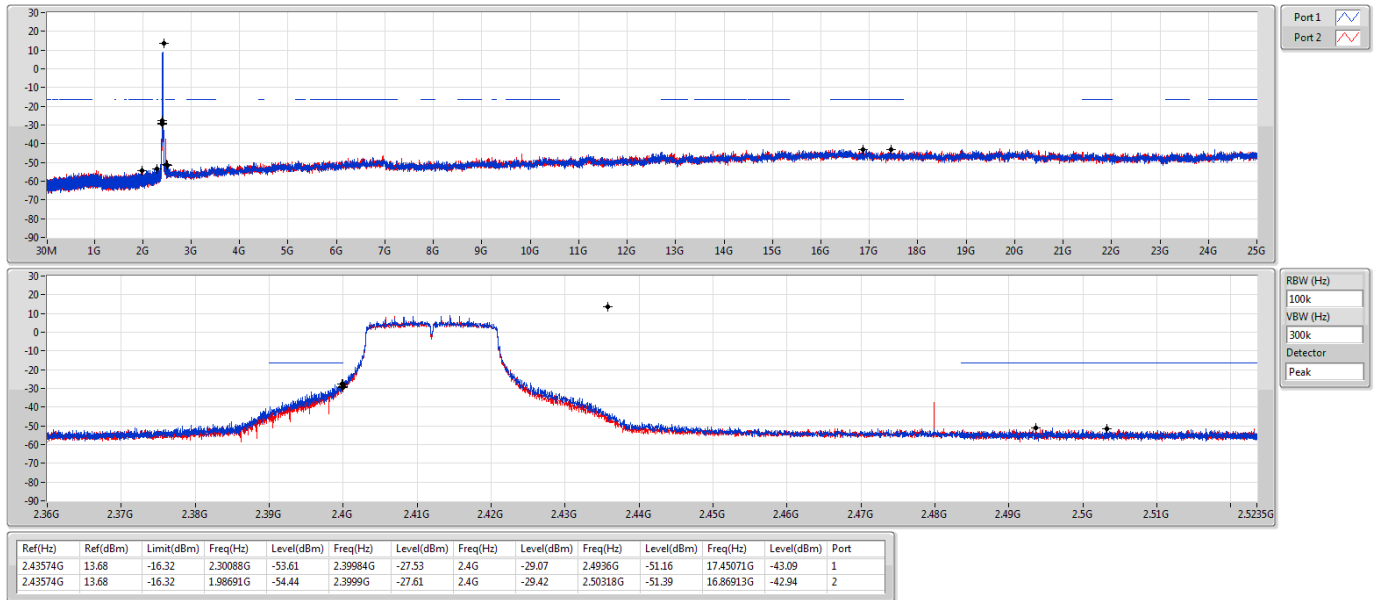
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	14.02	-15.98	2.12846G	-54.99	2.39574G	-52.06	2.4835G	-41.67	2.48352G	-41.29	16.5685G	-41.93	1
2.43202G	14.02	-15.98	2.1937G	-53.78	2.3926G	-52.58	2.4835G	-43.64	2.48392G	-43.73	16.93375G	-42.41	2

VHT20_Nss1,(MCS0)_2TX

2412MHz

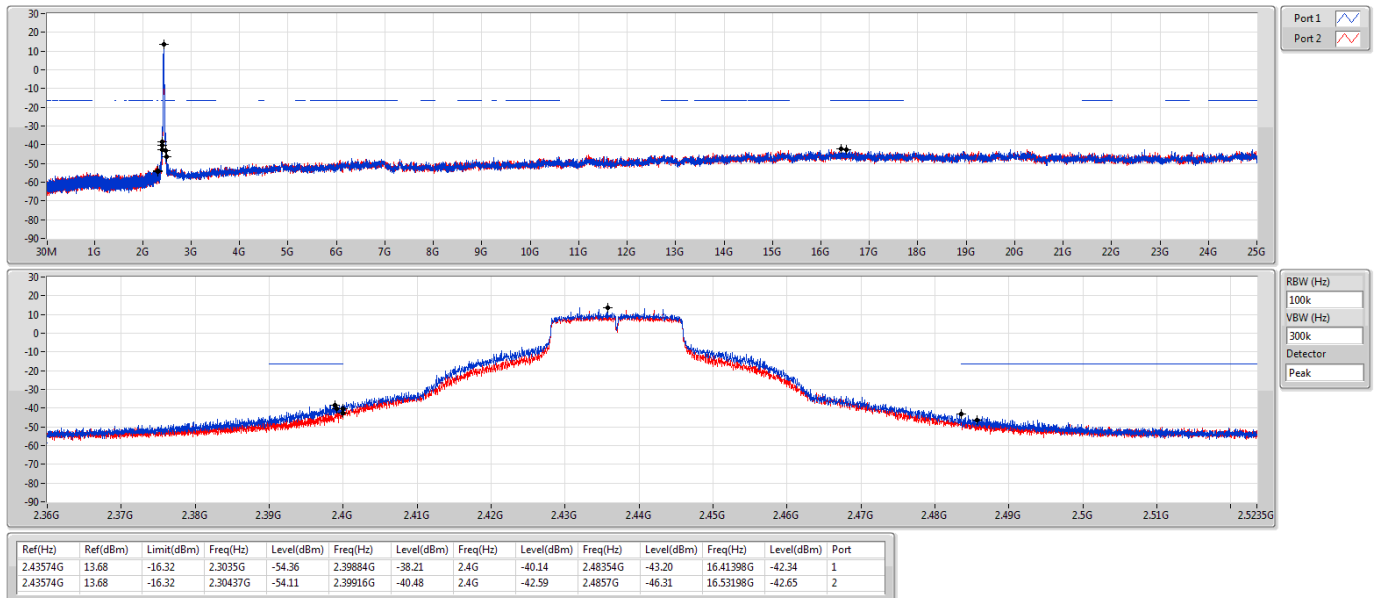
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VHT20_Nss1,(MCS0)_2TX

2437MHz

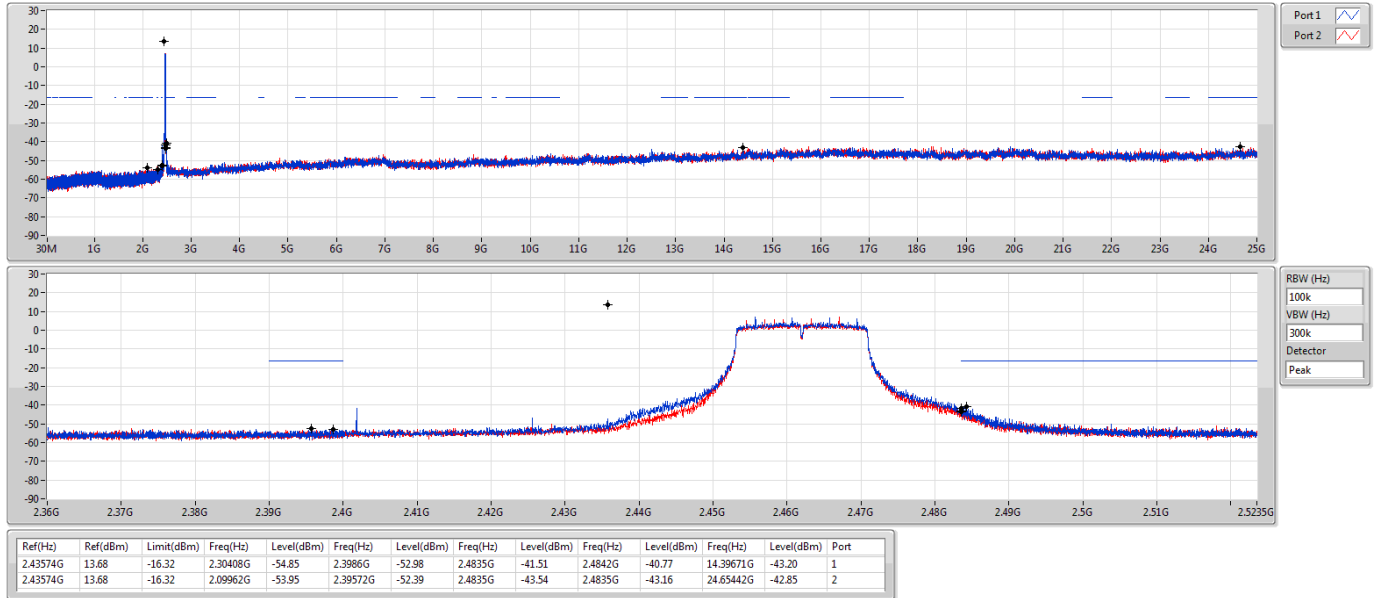
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VHT20_Nss1,(MCS0)_2TX

2462MHz

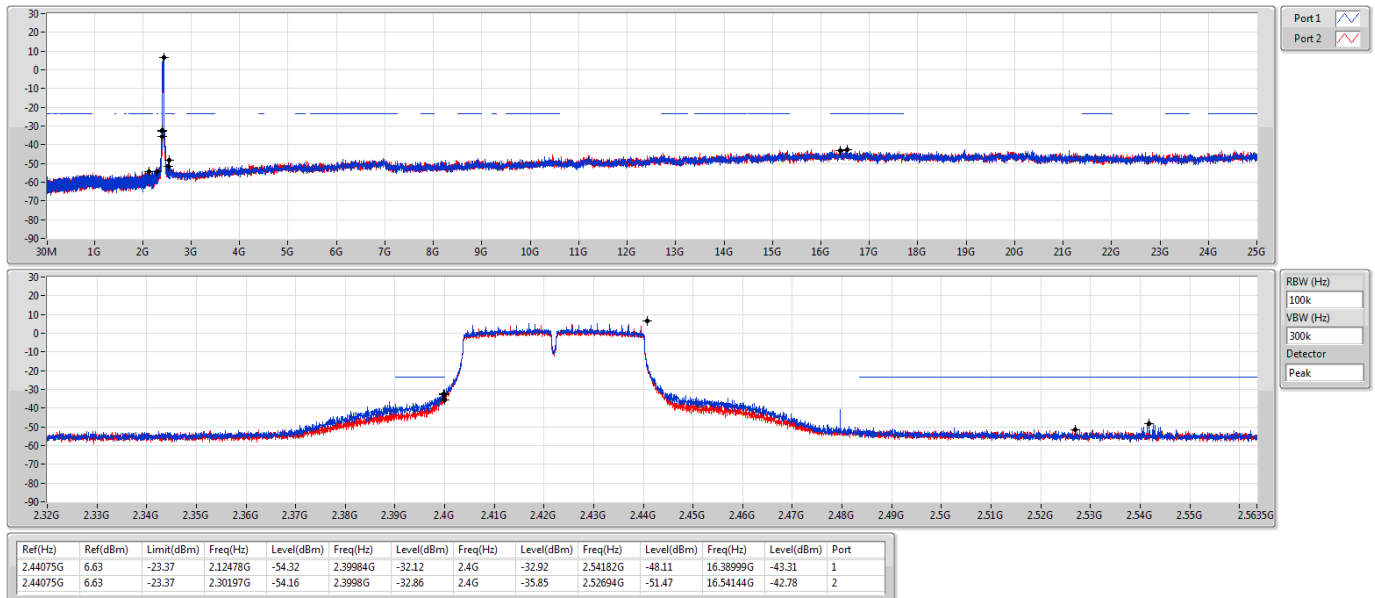
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VHT40_Nss1,(MCS0)_2TX

2422MHz

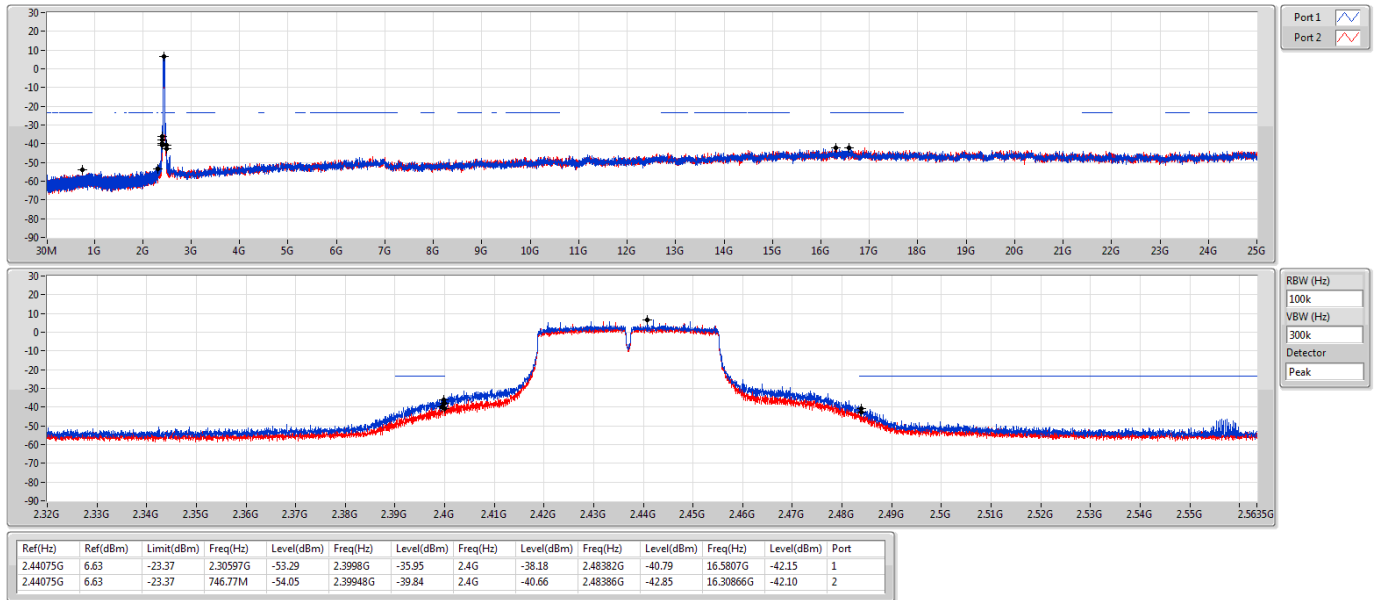
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VHT40_Nss1,(MCS0)_2TX

2437MHz

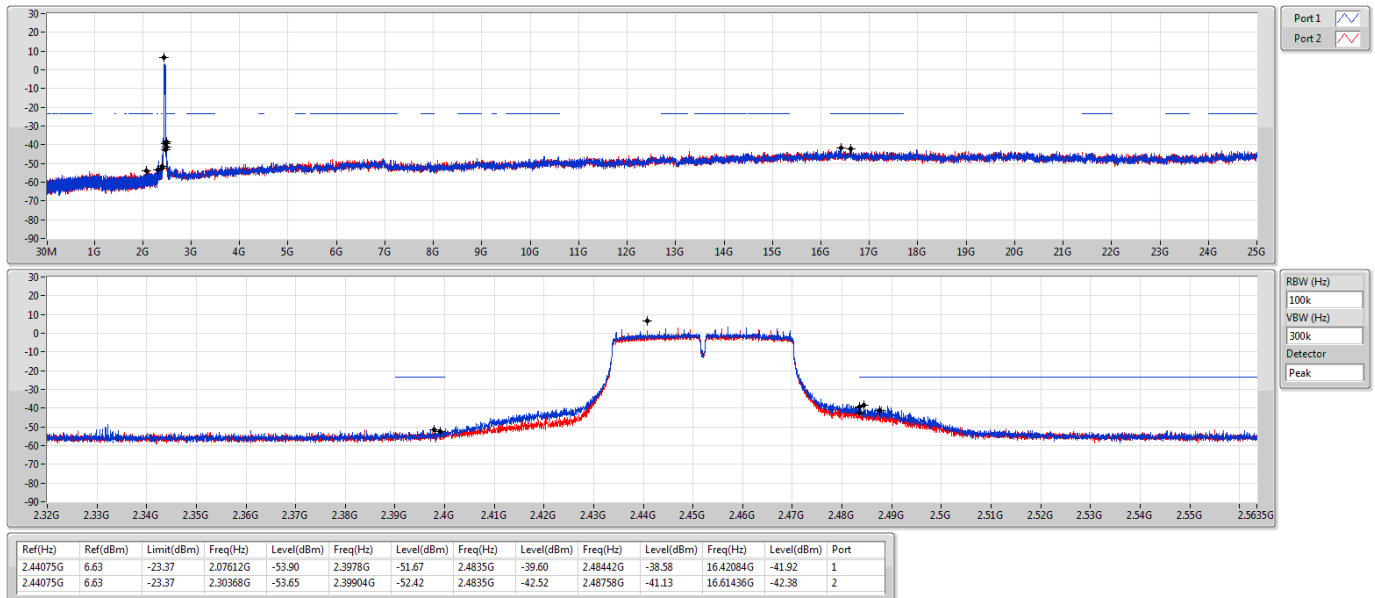
CSENdB



VHT40_Nss1,(MCS0)_2TX

2452MHz

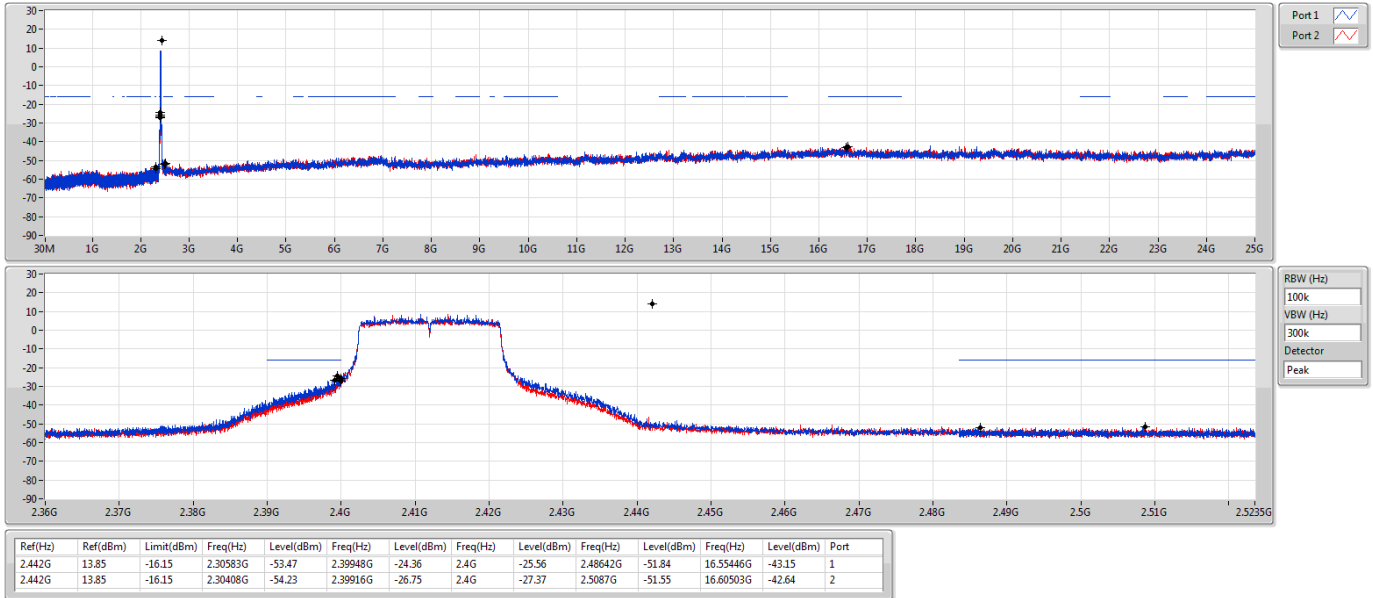
CSENdB



802.11ax HEW20_Nss1,(MCS0)_2TX

CSENdB

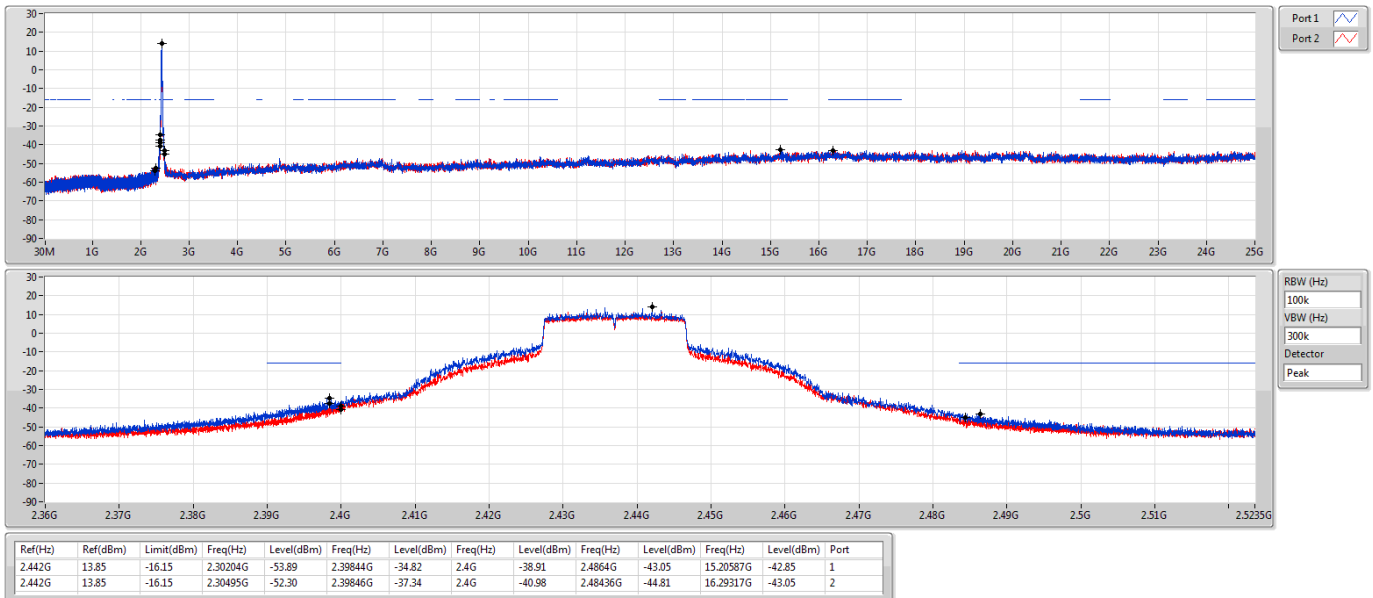
2412MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

CSENdB

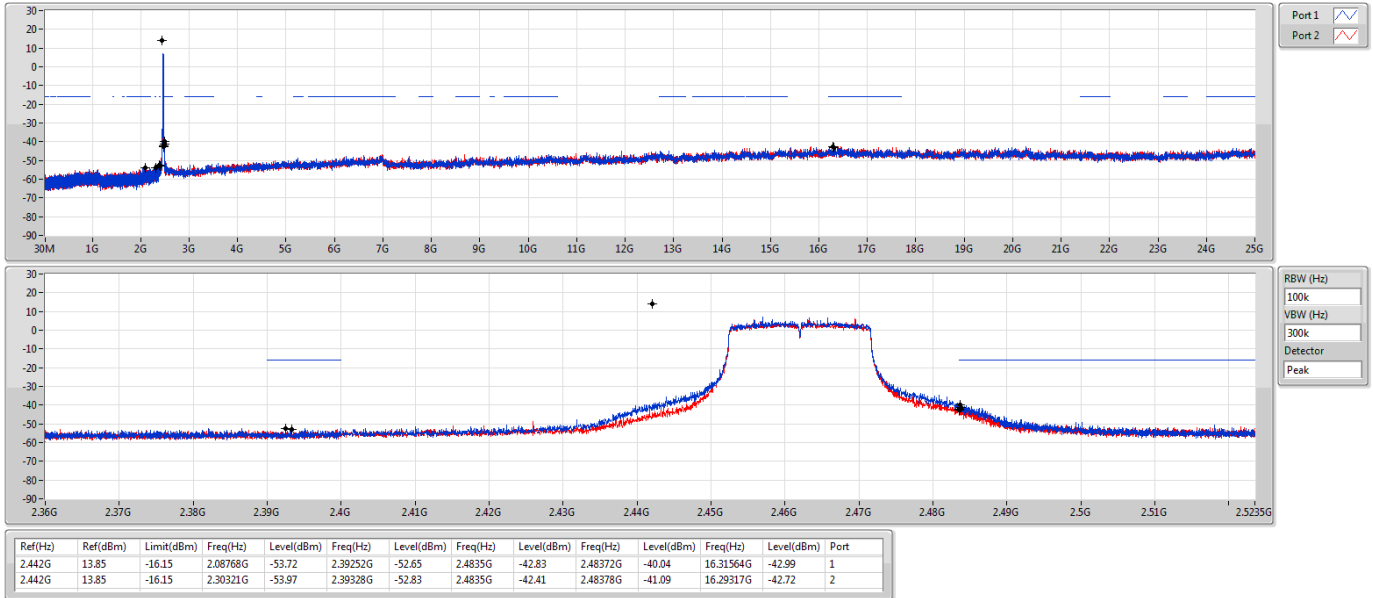
2437MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz

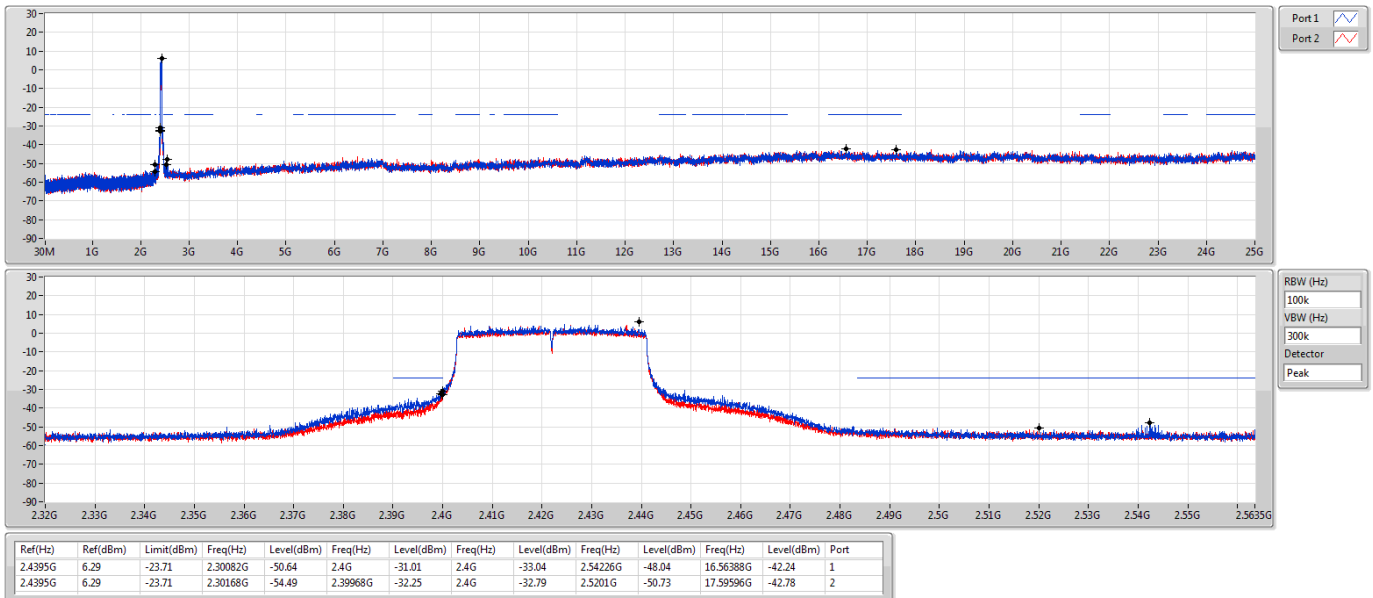
CSENdB



802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz

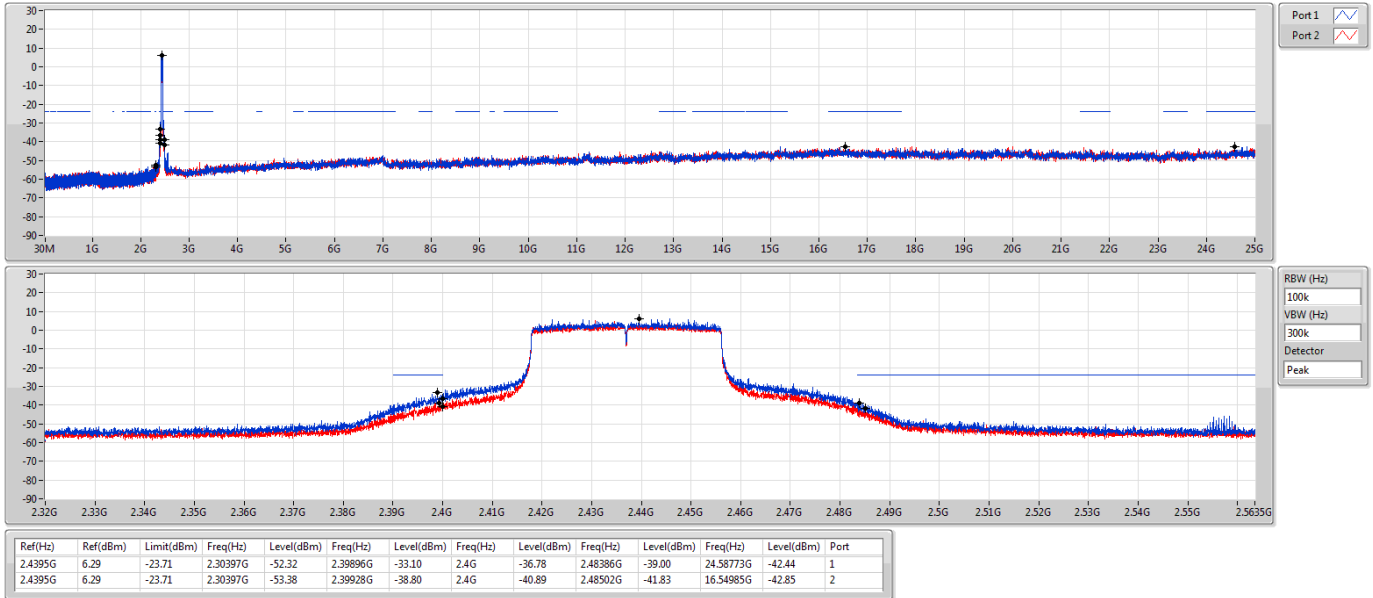
CSENdB



802.11ax HEW40_Nss1,(MCS0)_2TX

CSENdB

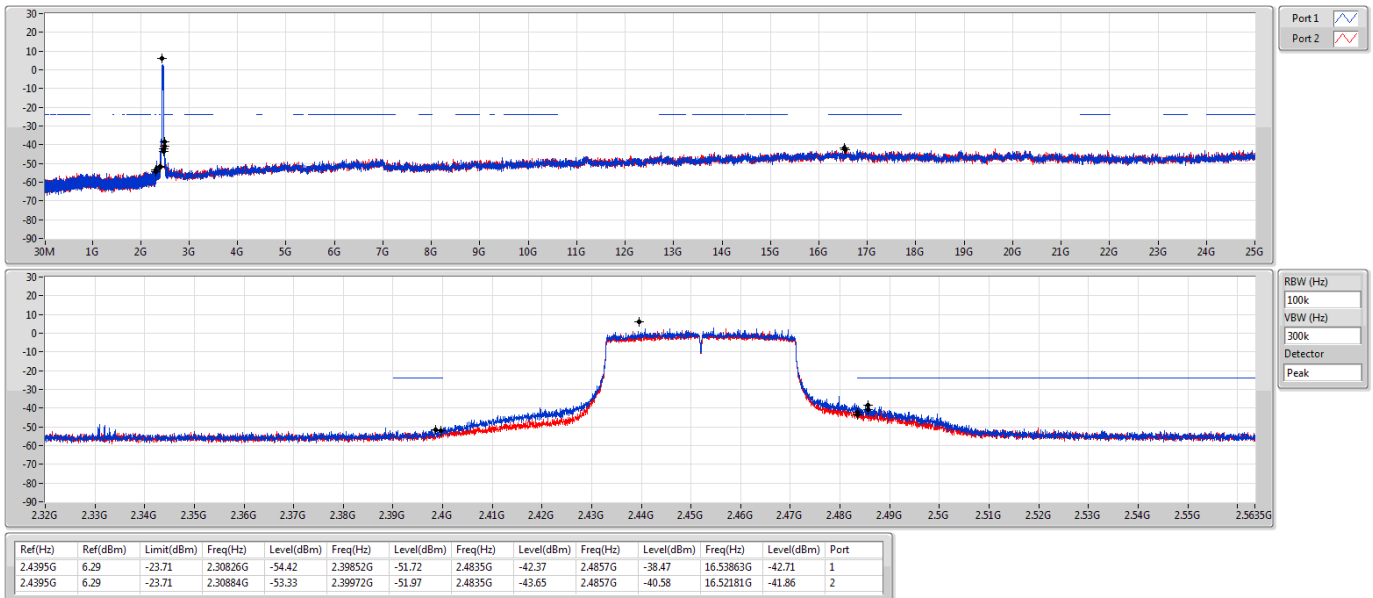
2437MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

CSENdB

2452MHz





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VHT20-BF_Nss1,(MCS0)_2TX	Pass	2.442G	8.74	-21.26	2.19486G	-54.52	2.39984G	-35.35	2.4G	-36.39	2.50414G	-52.59	24.67409G	-45.19	1
VHT40-BF_Nss1,(MCS0)_2TX	Pass	2.42852G	4.83	-25.17	2.12879G	-54.26	2.39992G	-37.70	2.4G	-40.33	2.53186G	-51.94	24.55968G	-44.87	1
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.43499G	10.27	-19.73	2.30961G	-50.67	2.39988G	-26.97	2.4G	-26.55	2.50322G	-48.02	24.81176G	-39.14	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.42797G	9.03	-20.97	2.30082G	-49.44	2.39964G	-27.28	2.4G	-31.15	2.4853G	-43.69	15.22049G	-39.89	1

**Result**

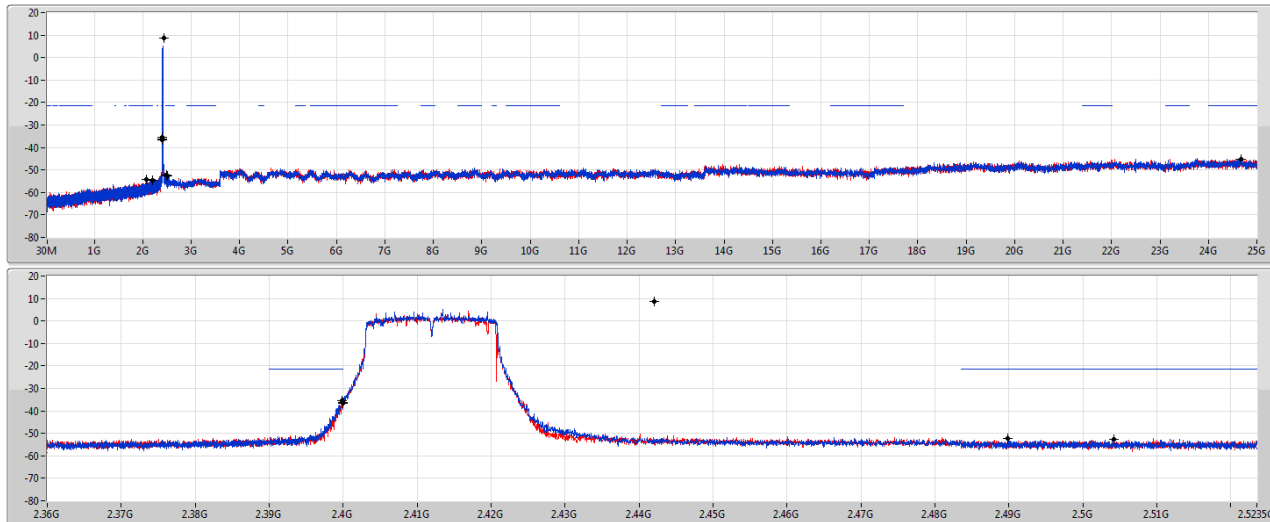
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.442G	8.74	-21.26	2.19486G	-54.52	2.39984G	-35.35	2.4G	-36.39	2.50414G	-52.59	24.67409G	-45.19	1
2412MHz_TnomVnom	Pass	2.442G	8.74	-21.26	2.07283G	-54.14	2.39988G	-35.53	2.4G	-36.52	2.48982G	-52.24	24.6769G	-45.13	2
2437MHz_TnomVnom	Pass	2.442G	8.74	-21.26	2.30961G	-53.87	2.39642G	-51.54	2.4835G	-53.98	2.49724G	-52.59	24.49709G	-44.59	1
2437MHz_TnomVnom	Pass	2.442G	8.74	-21.26	2.30932G	-54.09	2.39942G	-52.65	2.4G	-52.94	2.48362G	-52.18	24.99438G	-45.12	2
2462MHz_TnomVnom	Pass	2.442G	8.74	-21.26	2.30641G	-55.25	2.39532G	-52.77	2.4835G	-50.41	2.49262G	-47.61	24.96067G	-44.77	1
2462MHz_TnomVnom	Pass	2.442G	8.74	-21.26	2.30699G	-54.78	2.3912G	-53.24	2.4835G	-52.04	2.48362G	-50.60	24.95224G	-44.09	2
VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.42852G	4.83	-25.17	2.12879G	-54.26	2.39992G	-37.70	2.4G	-40.33	2.53186G	-51.94	24.55968G	-44.87	1
2422MHz_TnomVnom	Pass	2.42852G	4.83	-25.17	2.30941G	-53.80	2.39988G	-38.88	2.4G	-39.89	2.50382G	-51.45	24.42226G	-44.92	2
2437MHz_TnomVnom	Pass	2.42852G	4.83	-25.17	2.19605G	-54.56	2.397G	-41.34	2.4835G	-50.97	2.48406G	-49.73	24.86819G	-44.76	1
2437MHz_TnomVnom	Pass	2.42852G	4.83	-25.17	2.16772G	-54.68	2.39928G	-44.21	2.4835G	-52.14	2.48462G	-51.45	24.84575G	-45.08	2
2452MHz_TnomVnom	Pass	2.42852G	4.83	-25.17	2.30769G	-53.20	2.39852G	-51.86	2.4835G	-46.55	2.48582G	-43.87	24.18387G	-44.39	1
2452MHz_TnomVnom	Pass	2.42852G	4.83	-25.17	2.13995G	-54.14	2.39636G	-52.77	2.4835G	-49.14	2.48418G	-43.57	24.16144G	-44.12	2
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43499G	10.27	-19.73	2.12671G	-51.30	2.39978G	-26.57	2.4G	-27.92	2.4971G	-48.38	15.21429G	-38.49	1
2412MHz_TnomVnom	Pass	2.43499G	10.27	-19.73	2.30961G	-50.67	2.39988G	-26.97	2.4G	-26.55	2.50322G	-48.02	24.81176G	-39.14	2
2437MHz_TnomVnom	Pass	2.43499G	10.27	-19.73	2.097G	-50.07	2.39856G	-37.29	2.4G	-37.84	2.48436G	-41.93	15.21429G	-39.55	1
2437MHz_TnomVnom	Pass	2.43499G	10.27	-19.73	2.30233G	-50.36	2.3952G	-40.50	2.4G	-43.56	2.48832G	-44.30	24.71623G	-39.73	2
2462MHz_TnomVnom	Pass	2.43499G	10.27	-19.73	2.30379G	-50.31	2.3966G	-49.63	2.4835G	-43.84	2.4837G	-38.95	24.61228G	-38.81	1
2462MHz_TnomVnom	Pass	2.43499G	10.27	-19.73	2.17273G	-51.25	2.39712G	-49.42	2.4835G	-45.43	2.48398G	-39.05	24.29761G	-39.64	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.42797G	9.03	-20.97	2.30082G	-49.44	2.39964G	-27.28	2.4G	-31.15	2.4853G	-43.69	15.22049G	-39.89	1
2422MHz_TnomVnom	Pass	2.42797G	9.03	-20.97	942.28M	-50.79	2.4G	-28.96	2.4G	-30.17	2.48362G	-46.67	24.87099G	-39.71	2
2437MHz_TnomVnom	Pass	2.42797G	9.03	-20.97	2.30884G	-50.73	2.3976G	-33.43	2.4G	-39.82	2.48458G	-38.89	15.20366G	-37.85	1
2437MHz_TnomVnom	Pass	2.42797G	9.03	-20.97	2.30941G	-50.95	2.39612G	-36.86	2.4G	-41.88	2.48446G	-38.84	24.80368G	-39.56	2
2452MHz_TnomVnom	Pass	2.42797G	9.03	-20.97	2.30111G	-50.11	2.3998G	-44.22	2.4835G	-37.84	2.48754G	-33.36	24.80649G	-38.69	1
2452MHz_TnomVnom	Pass	2.42797G	9.03	-20.97	2.30139G	-50.22	2.39772G	-46.35	2.4835G	-40.40	2.4855G	-33.71	16.93127G	-39.92	2

VHT20-BF_Nss1,(MCS0)_2TX

CSENdB

2412MHz

16/12/2020



Port 1
Port 2

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

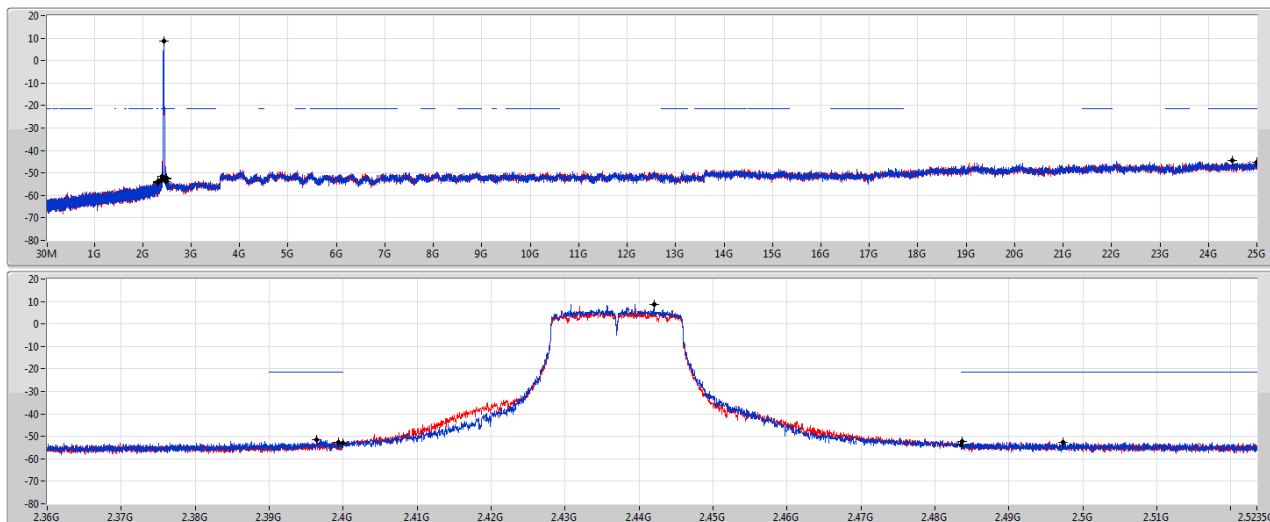
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2.442G	8.74	-21.26	2.19486G	-54.52	2.39984G	-35.35	2.4G	-36.39	2.50414G	-52.59	24.67409G	-45.19	1
2.442G	8.74	-21.26	2.07283G	-54.14	2.39988G	-35.53	2.4G	-36.52	2.48982G	-52.24	24.6769G	-45.13	2

VHT20-BF_Nss1,(MCS0)_2TX

CSENdB

2437MHz

16/12/2020



Port 1
Port 2

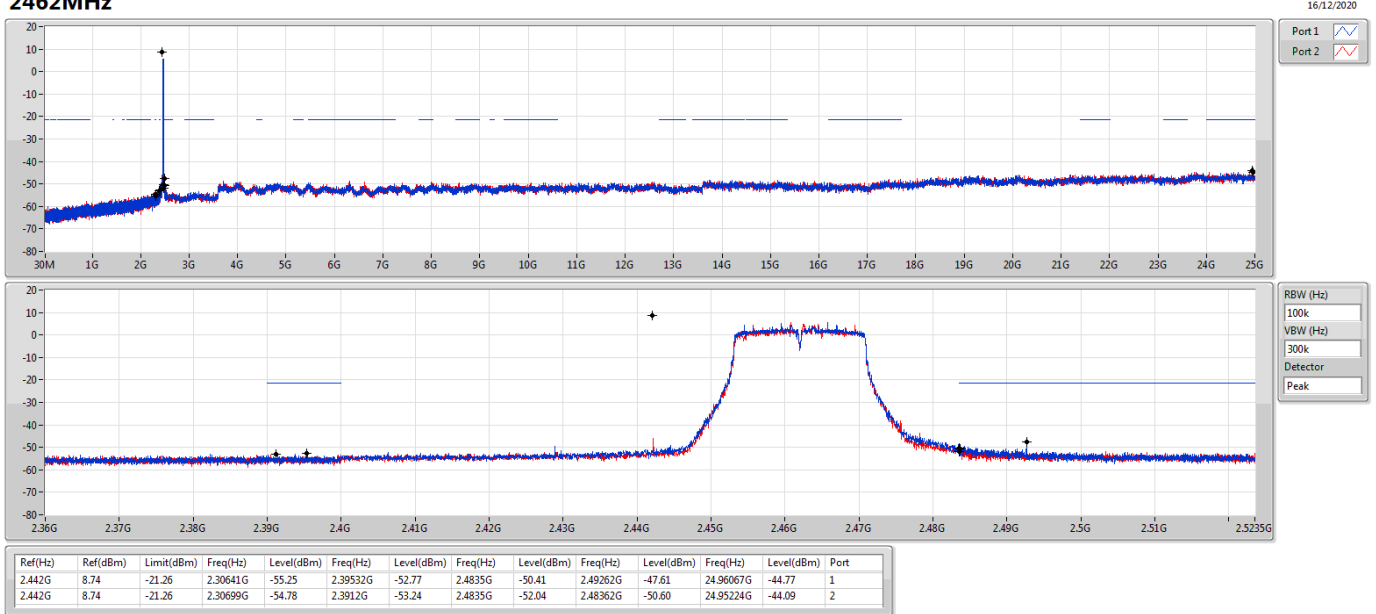
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	8.74	-21.26	2.30961G	-53.87	2.39642G	-51.54	2.4835G	-53.98	2.49724G	-52.59	24.9709G	-44.59	1
2.442G	8.74	-21.26	2.30932G	-54.09	2.39942G	-52.65	2.4G	-52.94	2.48362G	-52.18	24.99438G	-45.12	2

VHT20-BF_Nss1,(MCS0)_2TX

2462MHz

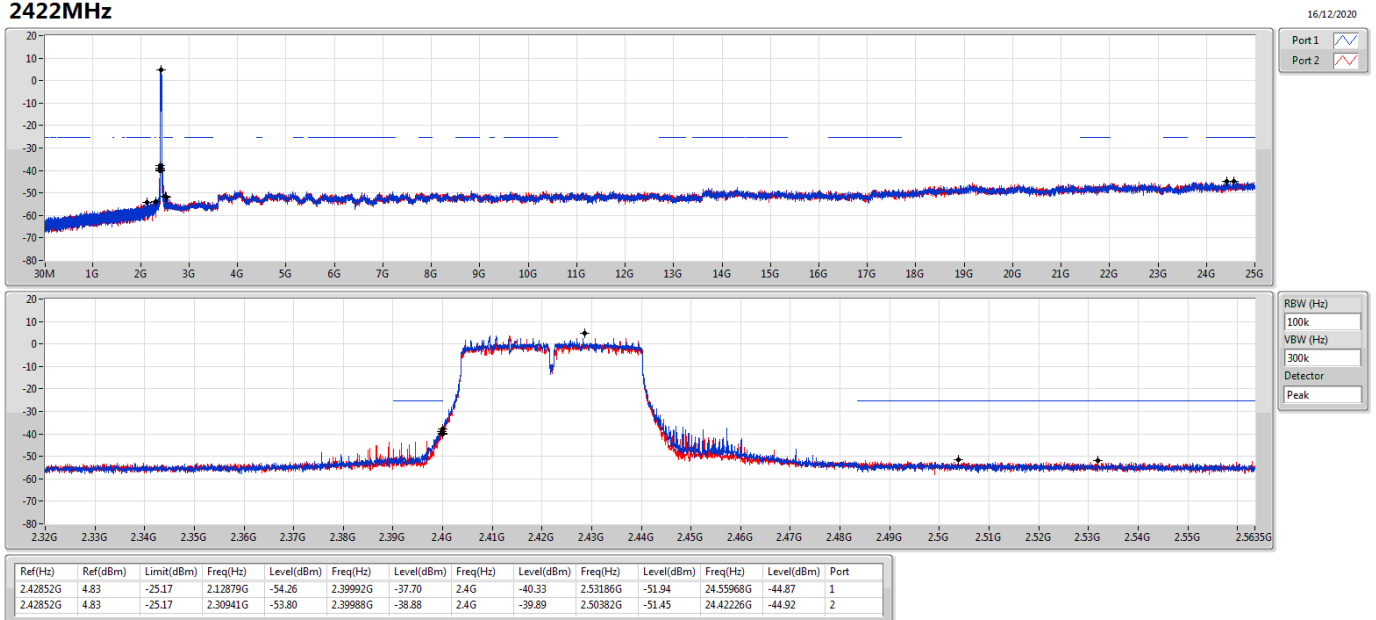
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VHT40-BF_Nss1,(MCS0)_2TX

2422MHz

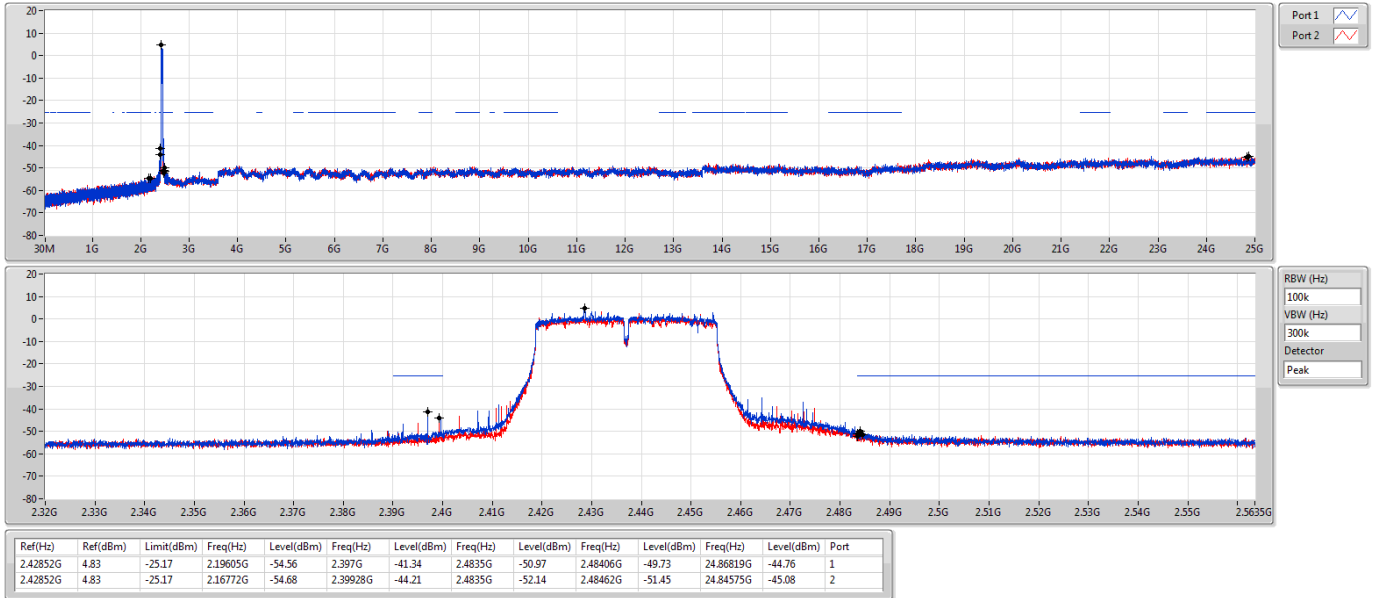
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VHT40-BF_Nss1,(MCS0)_2TX

2437MHz

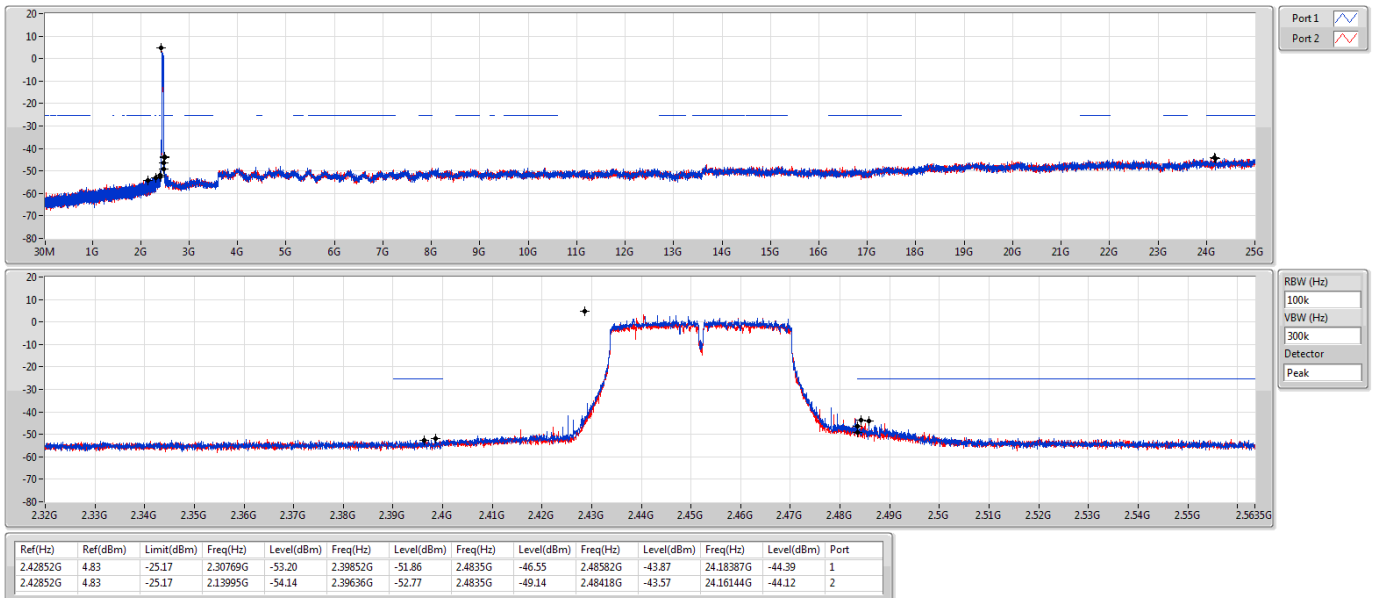
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VHT40-BF_Nss1,(MCS0)_2TX

2452MHz

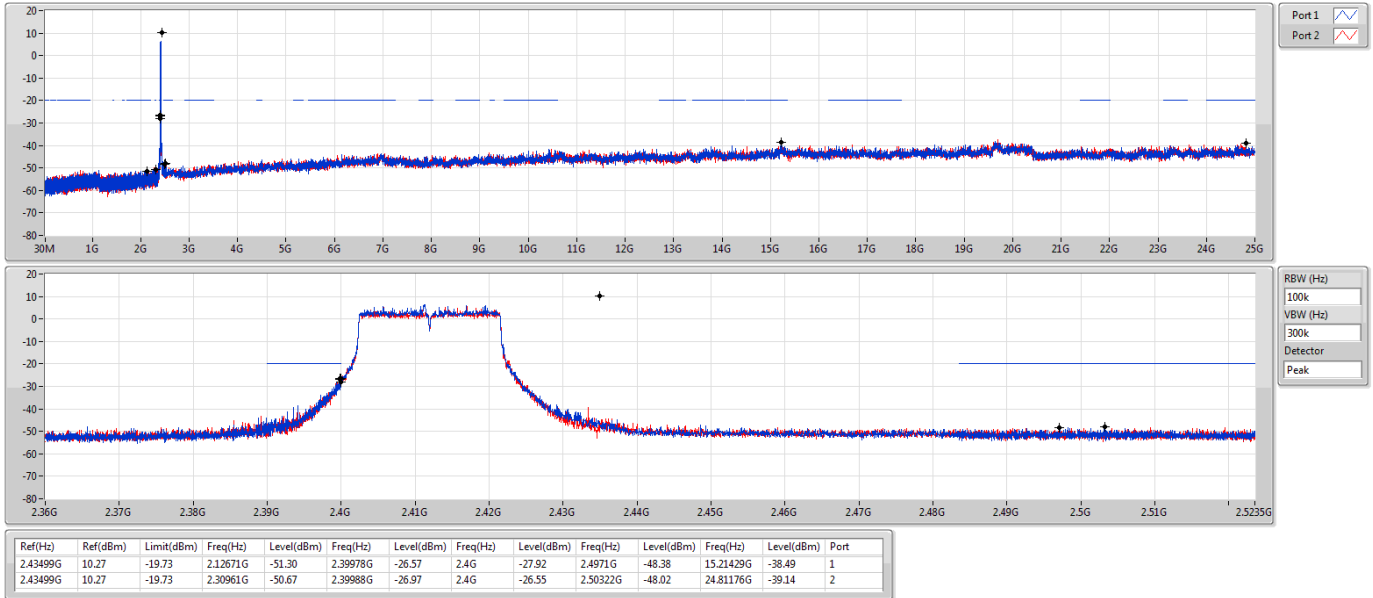
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802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz

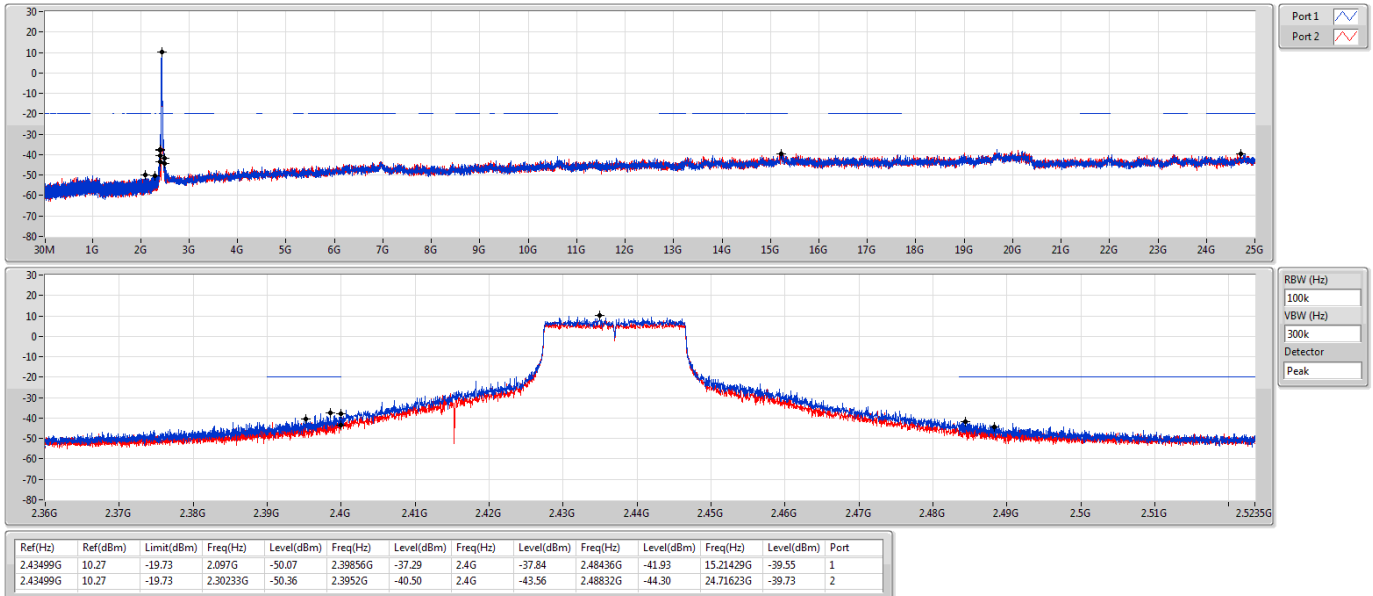
CSENdB



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz

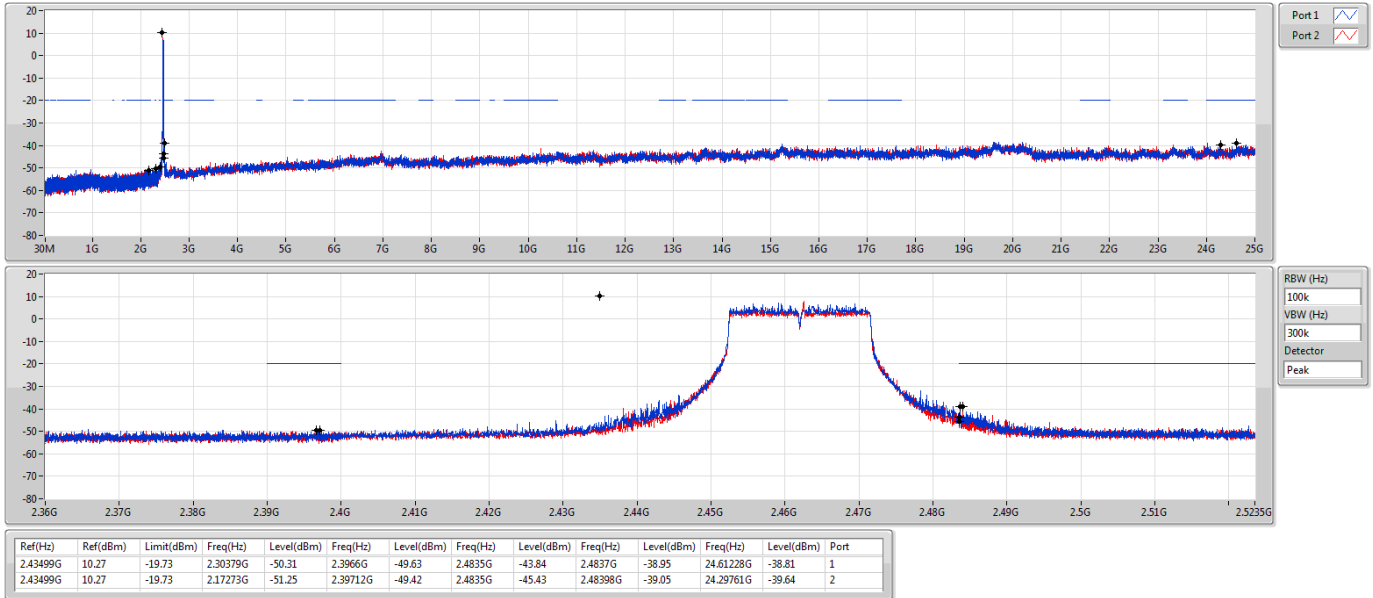
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802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz

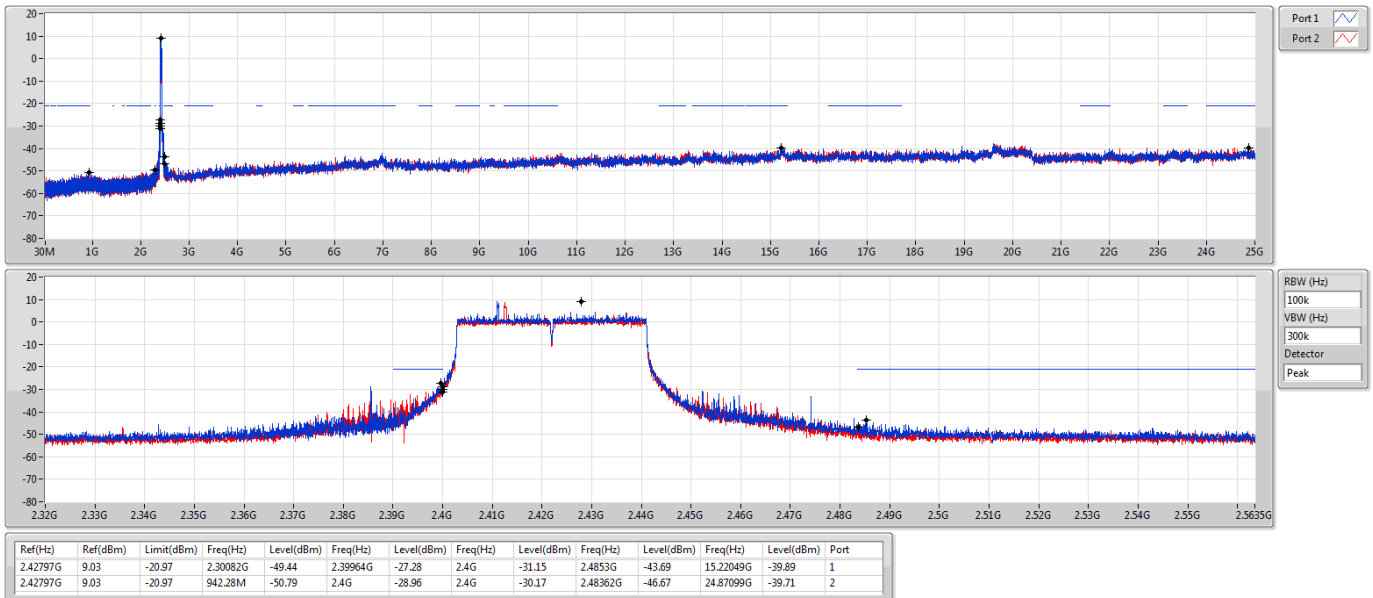
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802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz

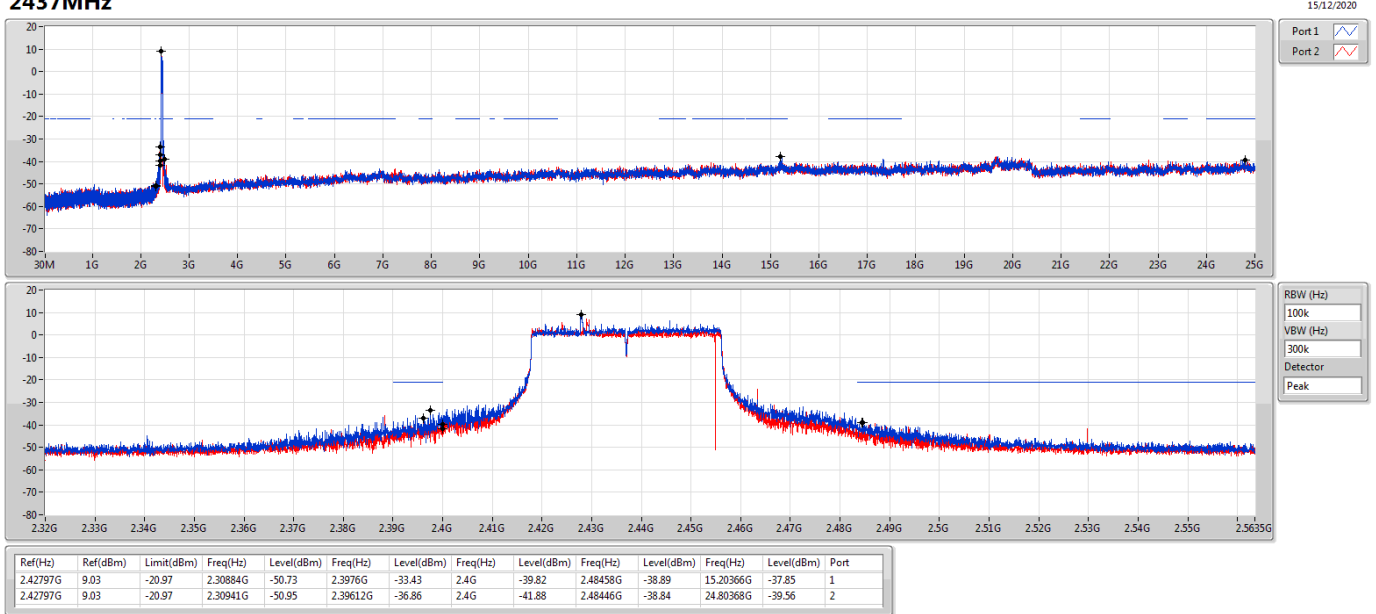
CSENdB



802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz

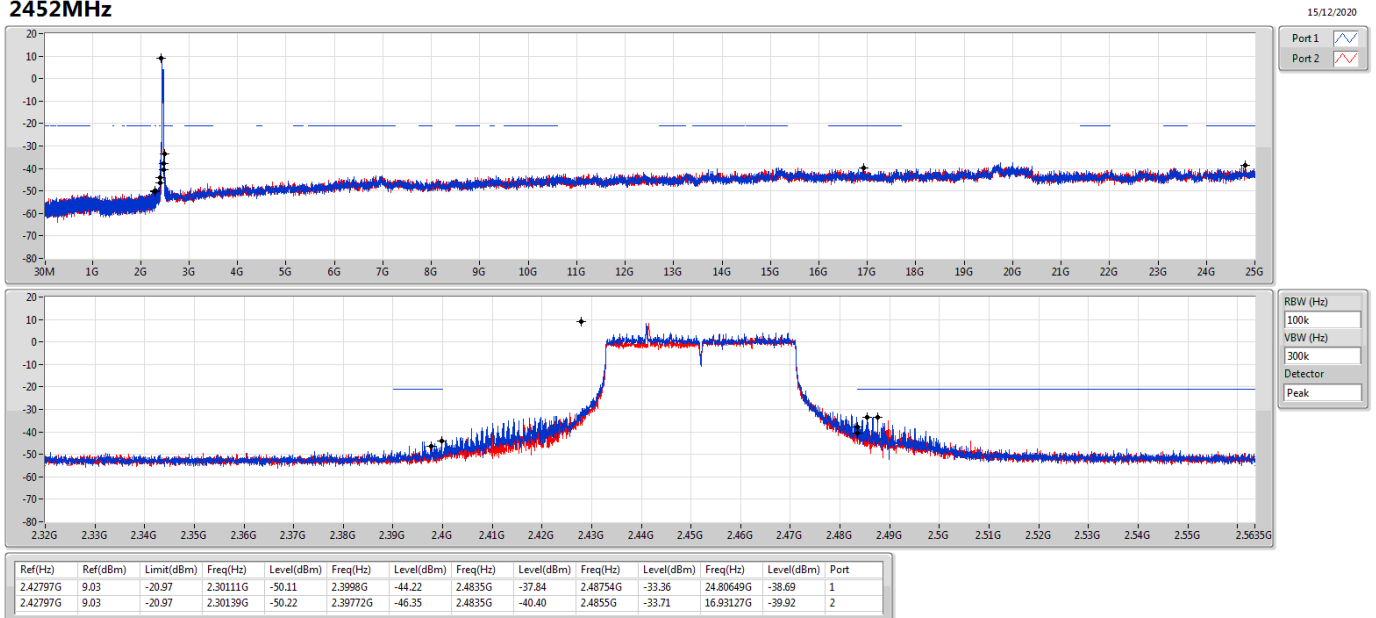
CSENdB



802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz

CSENdB





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	PK	30M	29.98	40.00	-10.02	3	Horizontal	0	1.00	-



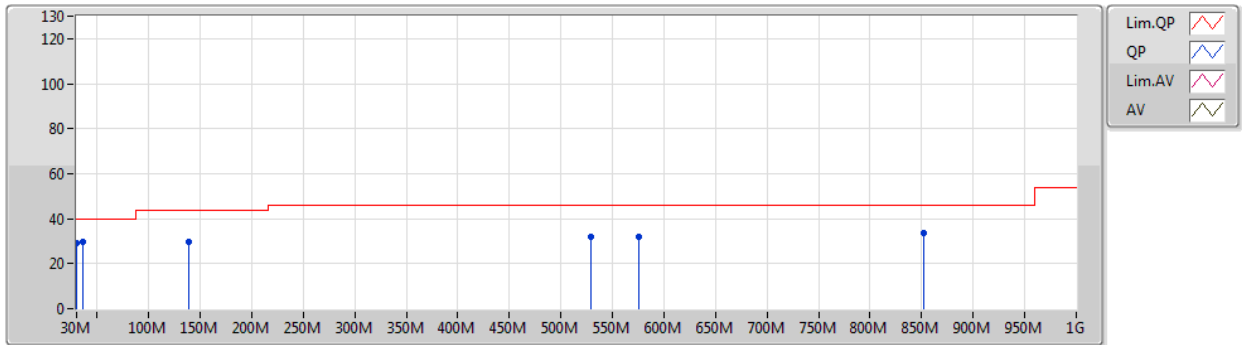
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	30M	29.25	40.00	-10.75	3	Vertical	360	1.00	-
2437MHz	Pass	PK	35.82M	29.80	40.00	-10.20	3	Vertical	360	1.00	-
2437MHz	Pass	PK	138.64M	29.95	43.50	-13.55	3	Vertical	360	1.00	-
2437MHz	Pass	PK	528.58M	31.76	46.00	-14.24	3	Vertical	360	1.00	-
2437MHz	Pass	PK	575.14M	31.98	46.00	-14.02	3	Vertical	360	1.00	-
2437MHz	Pass	PK	852.56M	33.40	46.00	-12.60	3	Vertical	360	1.00	-
2437MHz	Pass	PK	30M	29.98	40.00	-10.02	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	140.58M	27.42	43.50	-16.08	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	210.42M	30.15	43.50	-13.35	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	679.9M	31.85	46.00	-14.15	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	788.54M	33.40	46.00	-12.60	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	974.78M	34.77	54.00	-19.23	3	Horizontal	0	1.00	-

802.11ax HEW40_Nss1,(MCS0)_2TX

21/08/2020

2437MHz_Adapter

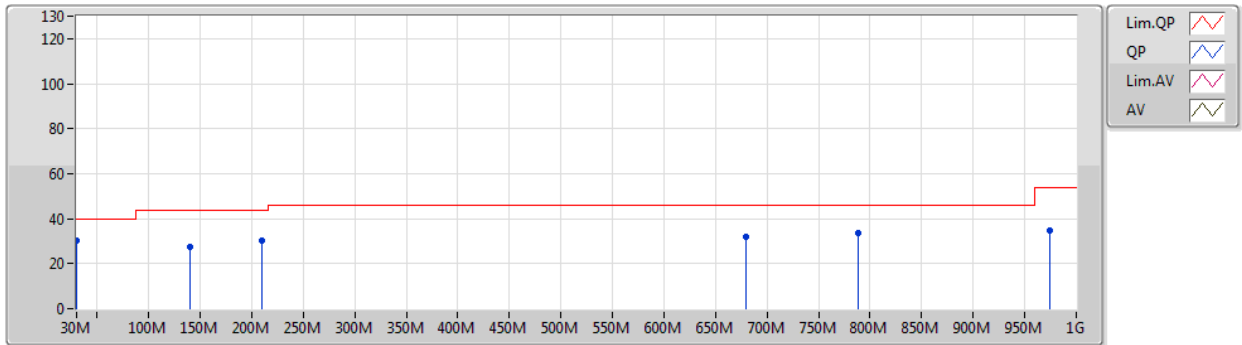


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	29.25	40.00	-10.75	-3.03	3	Vertical	360	1.00	-	32.28	23.48	0.70	27.21
PK	35.82M	29.80	40.00	-10.20	-6.05	3	Vertical	360	1.00	-	35.85	20.10	0.82	26.97
PK	138.64M	29.95	43.50	-13.55	-9.62	3	Vertical	360	1.00	-	39.57	16.32	1.69	27.63
PK	528.58M	31.76	46.00	-14.24	-1.90	3	Vertical	360	1.00	-	33.66	22.87	3.56	28.33
PK	575.14M	31.98	46.00	-14.02	-0.54	3	Vertical	360	1.00	-	32.52	24.10	3.70	28.34
PK	852.56M	33.40	46.00	-12.60	2.47	3	Vertical	360	1.00	-	30.93	25.46	4.61	27.60

802.11ax HEW40_Nss1,(MCS0)_2TX

21/08/2020

2437MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	29.98	40.00	-10.02	-3.03	3	Horizontal	0	1.00	-	33.01	23.48	0.70	27.21
PK	140.58M	27.42	43.50	-16.08	-9.78	3	Horizontal	0	1.00	-	37.20	16.14	1.70	27.62
PK	210.42M	30.15	43.50	-13.35	-10.90	3	Horizontal	0	1.00	-	41.05	14.18	2.16	27.24
PK	679.9M	31.85	46.00	-14.15	0.03	3	Horizontal	0	1.00	-	31.82	24.09	4.12	28.18
PK	788.54M	33.40	46.00	-12.60	1.57	3	Horizontal	0	1.00	-	31.83	24.95	4.45	27.83
PK	974.78M	34.77	54.00	-19.23	3.96	3	Horizontal	0	1.00	-	30.81	26.17	4.95	27.16

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.4838G	53.85	54.00	-0.15	3	Horizontal	127	2.10	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.3884G	53.55	54.00	-0.45	3	Horizontal	132	2.41	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	2.4836G	53.83	54.00	-0.17	3	Horizontal	132	2.12	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	2.3878G	53.87	54.00	-0.13	3	Horizontal	36	2.72	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	49.05	54.00	-4.95	3	Vertical	339	2.58	-
2412MHz	Pass	AV	2.4112G	113.14	Inf	-Inf	3	Vertical	339	2.58	-
2412MHz	Pass	PK	2.3884G	59.68	74.00	-14.32	3	Vertical	339	2.58	-
2412MHz	Pass	PK	2.411G	116.67	Inf	-Inf	3	Vertical	339	2.58	-
2412MHz	Pass	AV	2.3878G	51.32	54.00	-2.68	3	Horizontal	127	2.69	-
2412MHz	Pass	AV	2.4128G	115.54	Inf	-Inf	3	Horizontal	127	2.69	-
2412MHz	Pass	PK	2.3866G	60.41	74.00	-13.59	3	Horizontal	127	2.69	-
2412MHz	Pass	PK	2.413G	119.09	Inf	-Inf	3	Horizontal	127	2.69	-
2412MHz	Pass	AV	4.82397G	41.60	54.00	-12.40	3	Vertical	67	1.23	-
2412MHz	Pass	PK	4.82385G	46.90	74.00	-27.10	3	Vertical	67	1.23	-
2412MHz	Pass	AV	4.82395G	37.37	54.00	-16.63	3	Horizontal	45	1.11	-
2412MHz	Pass	PK	4.824G	44.85	74.00	-29.15	3	Horizontal	45	1.11	-
2417MHz	Pass	AV	2.39G	50.90	54.00	-3.10	3	Vertical	202	1.00	-
2417MHz	Pass	AV	2.4162G	110.87	Inf	-Inf	3	Vertical	202	1.00	-
2417MHz	Pass	PK	2.3898G	59.19	74.00	-14.81	3	Vertical	202	1.00	-
2417MHz	Pass	PK	2.416G	114.38	Inf	-Inf	3	Vertical	202	1.00	-
2417MHz	Pass	AV	2.39G	52.99	54.00	-1.01	3	Horizontal	54	2.27	-
2417MHz	Pass	AV	2.418G	115.58	Inf	-Inf	3	Horizontal	54	2.27	-
2417MHz	Pass	PK	2.39G	61.14	74.00	-12.86	3	Horizontal	54	2.27	-
2417MHz	Pass	PK	2.416G	118.76	Inf	-Inf	3	Horizontal	54	2.27	-
2437MHz	Pass	AV	2.3882G	50.62	54.00	-3.38	3	Vertical	331	2.13	-
2437MHz	Pass	AV	2.4362G	112.30	Inf	-Inf	3	Vertical	331	2.13	-
2437MHz	Pass	AV	2.4842G	48.15	54.00	-5.85	3	Vertical	331	2.13	-
2437MHz	Pass	PK	2.3878G	59.46	74.00	-14.54	3	Vertical	331	2.13	-
2437MHz	Pass	PK	2.4378G	115.98	Inf	-Inf	3	Vertical	331	2.13	-
2437MHz	Pass	PK	2.4858G	58.34	74.00	-15.66	3	Vertical	331	2.13	-
2437MHz	Pass	AV	2.3882G	50.14	54.00	-3.86	3	Horizontal	41	1.77	-
2437MHz	Pass	AV	2.4378G	115.31	Inf	-Inf	3	Horizontal	41	1.77	-
2437MHz	Pass	AV	2.4858G	52.71	54.00	-1.29	3	Horizontal	41	1.77	-
2437MHz	Pass	PK	2.3894G	59.52	74.00	-14.48	3	Horizontal	41	1.77	-
2437MHz	Pass	PK	2.4378G	119.06	Inf	-Inf	3	Horizontal	41	1.77	-
2437MHz	Pass	PK	2.4874G	61.57	74.00	-12.43	3	Horizontal	41	1.77	-
2437MHz	Pass	AV	4.87402G	45.32	54.00	-8.68	3	Vertical	71	1.15	-
2437MHz	Pass	AV	7.31174G	38.45	54.00	-15.55	3	Vertical	32	1.41	-
2437MHz	Pass	PK	4.87392G	49.26	74.00	-24.74	3	Vertical	71	1.15	-
2437MHz	Pass	PK	7.31187G	50.24	74.00	-23.76	3	Vertical	32	1.41	-
2437MHz	Pass	AV	4.87394G	40.60	54.00	-13.40	3	Horizontal	44	1.39	-
2437MHz	Pass	AV	7.31182G	40.75	54.00	-13.25	3	Horizontal	293	1.79	-
2437MHz	Pass	PK	4.87404G	46.72	74.00	-27.28	3	Horizontal	44	1.39	-
2437MHz	Pass	PK	7.3105G	50.62	74.00	-23.38	3	Horizontal	293	1.79	-
2457MHz	Pass	AV	2.458G	108.38	Inf	-Inf	3	Vertical	358	2.84	-
2457MHz	Pass	AV	2.4838G	50.72	54.00	-3.28	3	Vertical	358	2.84	-
2457MHz	Pass	PK	2.456G	111.86	Inf	-Inf	3	Vertical	358	2.84	-
2457MHz	Pass	PK	2.4842G	59.97	74.00	-14.03	3	Vertical	358	2.84	-
2457MHz	Pass	AV	2.4562G	114.00	Inf	-Inf	3	Horizontal	127	2.10	-
2457MHz	Pass	AV	2.4838G	53.85	54.00	-0.15	3	Horizontal	127	2.10	-
2457MHz	Pass	PK	2.456G	117.59	Inf	-Inf	3	Horizontal	127	2.10	-
2457MHz	Pass	PK	2.4854G	61.40	74.00	-12.60	3	Horizontal	127	2.10	-
2462MHz	Pass	AV	2.4614G	108.67	Inf	-Inf	3	Vertical	189	1.23	-
2462MHz	Pass	AV	2.4902G	48.78	54.00	-5.22	3	Vertical	189	1.23	-
2462MHz	Pass	PK	2.461G	112.06	Inf	-Inf	3	Vertical	189	1.23	-
2462MHz	Pass	PK	2.4888G	58.44	74.00	-15.56	3	Vertical	189	1.23	-
2462MHz	Pass	PK	2.463G	117.00	Inf	-Inf	3	Horizontal	31	1.14	-
2462MHz	Pass	AV	2.4612G	113.31	Inf	-Inf	3	Horizontal	31	1.14	-
2462MHz	Pass	PK	2.491G	61.52	74.00	-12.48	3	Horizontal	31	1.14	-
2462MHz	Pass	AV	2.489G	53.55	54.00	-0.45	3	Horizontal	31	1.14	-
2462MHz	Pass	AV	4.92393G	47.82	54.00	-6.18	3	Vertical	73	1.24	-
2462MHz	Pass	AV	7.38535G	36.83	54.00	-17.17	3	Vertical	356	1.50	-
2462MHz	Pass	PK	4.924G	51.15	74.00	-22.85	3	Vertical	73	1.24	-
2462MHz	Pass	PK	7.38594G	49.04	74.00	-24.96	3	Vertical	356	1.50	-



RSE TX above 1GHz_Non-Beamforming

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	AV	4.924G	45.51	54.00	-8.49	3	Horizontal	33	1.49	-
2462MHz	Pass	AV	7.38671G	38.25	54.00	-15.75	3	Horizontal	68	1.97	-
2462MHz	Pass	PK	4.924G	49.42	74.00	-24.58	3	Horizontal	33	1.49	-
2462MHz	Pass	PK	7.38626G	49.67	74.00	-24.33	3	Horizontal	68	1.97	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.80	54.00	-1.20	3	Vertical	146	2.55	-
2412MHz	Pass	AV	2.4146G	103.55	Inf	-Inf	3	Vertical	146	2.55	-
2412MHz	Pass	PK	2.39G	65.97	74.00	-8.03	3	Vertical	146	2.55	-
2412MHz	Pass	PK	2.4094G	113.19	Inf	-Inf	3	Vertical	146	2.55	-
2412MHz	Pass	AV	2.3894G	52.06	54.00	-1.94	3	Horizontal	117	2.68	-
2412MHz	Pass	AV	2.413G	106.30	Inf	-Inf	3	Horizontal	117	2.68	-
2412MHz	Pass	PK	2.3898G	66.01	74.00	-7.99	3	Horizontal	117	2.68	-
2412MHz	Pass	PK	2.4128G	115.95	Inf	-Inf	3	Horizontal	117	2.68	-
2412MHz	Pass	AV	4.82408G	29.94	54.00	-24.06	3	Vertical	72	2.85	-
2412MHz	Pass	PK	4.82477G	42.73	74.00	-31.27	3	Vertical	72	2.85	-
2412MHz	Pass	AV	4.82389G	29.54	54.00	-24.46	3	Horizontal	113	1.61	-
2412MHz	Pass	PK	4.82363G	42.63	74.00	-31.37	3	Horizontal	113	1.61	-
2417MHz	Pass	AV	2.3898G	52.98	54.00	-1.02	3	Vertical	148	2.60	-
2417MHz	Pass	AV	2.4194G	105.02	Inf	-Inf	3	Vertical	148	2.60	-
2417MHz	Pass	PK	2.39G	69.13	74.00	-4.87	3	Vertical	148	2.60	-
2417MHz	Pass	PK	2.4146G	114.84	Inf	-Inf	3	Vertical	148	2.60	-
2417MHz	Pass	AV	2.3884G	53.55	54.00	-0.45	3	Horizontal	132	2.41	-
2417MHz	Pass	AV	2.418G	107.93	Inf	-Inf	3	Horizontal	132	2.41	-
2417MHz	Pass	PK	2.3884G	68.91	74.00	-5.09	3	Horizontal	132	2.41	-
2417MHz	Pass	PK	2.4132G	117.68	Inf	-Inf	3	Horizontal	132	2.41	-
2437MHz	Pass	AV	2.3878G	51.26	54.00	-2.74	3	Vertical	358	2.29	-
2437MHz	Pass	AV	2.4358G	107.09	Inf	-Inf	3	Vertical	358	2.29	-
2437MHz	Pass	AV	2.4835G	51.56	54.00	-2.44	3	Vertical	358	2.29	-
2437MHz	Pass	PK	2.387G	64.82	74.00	-9.18	3	Vertical	358	2.29	-
2437MHz	Pass	PK	2.441G	116.78	Inf	-Inf	3	Vertical	358	2.29	-
2437MHz	Pass	PK	2.485G	65.94	74.00	-8.06	3	Vertical	358	2.29	-
2437MHz	Pass	AV	2.3882G	53.01	54.00	-0.99	3	Horizontal	34	2.43	-
2437MHz	Pass	AV	2.4318G	109.40	Inf	-Inf	3	Horizontal	34	2.43	-
2437MHz	Pass	AV	2.4835G	53.44	54.00	-0.56	3	Horizontal	34	2.43	-
2437MHz	Pass	PK	2.3874G	67.77	74.00	-6.23	3	Horizontal	34	2.43	-
2437MHz	Pass	PK	2.4318G	118.89	Inf	-Inf	3	Horizontal	34	2.43	-
2437MHz	Pass	PK	2.489G	66.28	74.00	-7.72	3	Horizontal	34	2.43	-
2437MHz	Pass	AV	4.87375G	32.86	54.00	-21.14	3	Vertical	68	1.00	-
2437MHz	Pass	AV	7.3116G	36.19	54.00	-17.81	3	Vertical	136	2.13	-
2437MHz	Pass	PK	4.87326G	45.80	74.00	-28.20	3	Vertical	68	1.00	-
2437MHz	Pass	PK	7.31085G	49.82	74.00	-24.18	3	Vertical	136	2.13	-
2437MHz	Pass	AV	4.87392G	31.46	54.00	-22.54	3	Horizontal	35	1.63	-
2437MHz	Pass	AV	7.31041G	35.99	54.00	-18.01	3	Horizontal	245	1.57	-
2437MHz	Pass	PK	4.87466G	43.65	74.00	-30.35	3	Horizontal	35	1.63	-
2437MHz	Pass	PK	7.3116G	49.60	74.00	-24.40	3	Horizontal	245	1.57	-
2457MHz	Pass	AV	2.4542G	105.74	Inf	-Inf	3	Vertical	155	2.88	-
2457MHz	Pass	AV	2.4844G	52.93	54.00	-1.07	3	Vertical	155	2.88	-
2457MHz	Pass	PK	2.4544G	115.41	Inf	-Inf	3	Vertical	155	2.88	-
2457MHz	Pass	PK	2.4835G	69.23	74.00	-4.77	3	Vertical	155	2.88	-
2457MHz	Pass	AV	2.4524G	106.95	Inf	-Inf	3	Horizontal	130	2.36	-
2457MHz	Pass	AV	2.4835G	53.15	54.00	-0.85	3	Horizontal	130	2.36	-
2457MHz	Pass	PK	2.453G	116.25	Inf	-Inf	3	Horizontal	130	2.36	-
2457MHz	Pass	PK	2.4835G	69.34	74.00	-4.66	3	Horizontal	130	2.36	-
2462MHz	Pass	AV	2.4588G	103.42	Inf	-Inf	3	Vertical	146	2.81	-
2462MHz	Pass	AV	2.4836G	53.38	54.00	-0.62	3	Vertical	146	2.81	-
2462MHz	Pass	PK	2.4642G	112.90	Inf	-Inf	3	Vertical	146	2.81	-
2462MHz	Pass	PK	2.4835G	69.22	74.00	-4.78	3	Vertical	146	2.81	-
2462MHz	Pass	AV	2.4574G	104.22	Inf	-Inf	3	Horizontal	133	2.10	-
2462MHz	Pass	AV	2.4835G	52.16	54.00	-1.84	3	Horizontal	133	2.10	-
2462MHz	Pass	PK	2.458G	113.49	Inf	-Inf	3	Horizontal	133	2.10	-
2462MHz	Pass	PK	2.4835G	64.02	74.00	-9.98	3	Horizontal	133	2.10	-
2462MHz	Pass	AV	4.9235G	32.35	54.00	-21.65	3	Vertical	64	1.00	-



RSE TX above 1GHz_Non-Beamforming

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	AV	7.38654G	35.95	54.00	-18.05	3	Vertical	46	1.75	-
2462MHz	Pass	PK	4.92388G	45.05	74.00	-28.95	3	Vertical	64	1.00	-
2462MHz	Pass	PK	7.38522G	49.60	74.00	-24.40	3	Vertical	46	1.75	-
2462MHz	Pass	AV	4.92393G	32.69	54.00	-21.31	3	Horizontal	28	1.48	-
2462MHz	Pass	AV	7.38555G	35.96	54.00	-18.04	3	Horizontal	352	1.81	-
2462MHz	Pass	PK	4.92391G	44.36	74.00	-29.64	3	Horizontal	28	1.48	-
2462MHz	Pass	PK	7.38652G	49.37	74.00	-24.63	3	Horizontal	352	1.81	-
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3898G	52.79	54.00	-1.21	3	Vertical	336	1.93	-
2412MHz	Pass	AV	2.411G	100.38	Inf	-Inf	3	Vertical	336	1.93	-
2412MHz	Pass	PK	2.3898G	65.90	74.00	-8.10	3	Vertical	336	1.93	-
2412MHz	Pass	PK	2.411G	113.31	Inf	-Inf	3	Vertical	336	1.93	-
2412MHz	Pass	AV	2.39G	52.01	54.00	-1.99	3	Horizontal	127	2.70	-
2412MHz	Pass	AV	2.4134G	104.07	Inf	-Inf	3	Horizontal	127	2.70	-
2412MHz	Pass	PK	2.39G	64.25	74.00	-9.75	3	Horizontal	127	2.70	-
2412MHz	Pass	PK	2.4132G	116.83	Inf	-Inf	3	Horizontal	127	2.70	-
2412MHz	Pass	AV	4.82409G	28.60	54.00	-25.40	3	Vertical	238	2.21	-
2412MHz	Pass	PK	4.82388G	42.43	74.00	-31.57	3	Vertical	238	2.21	-
2412MHz	Pass	AV	4.824G	28.82	54.00	-25.18	3	Horizontal	129	1.43	-
2412MHz	Pass	PK	4.8242G	42.90	74.00	-31.10	3	Horizontal	129	1.43	-
2417MHz	Pass	AV	2.3864G	48.57	54.00	-5.43	3	Vertical	0	2.06	-
2417MHz	Pass	AV	2.4148G	102.02	Inf	-Inf	3	Vertical	0	2.06	-
2417MHz	Pass	PK	2.3868G	62.42	74.00	-11.58	3	Vertical	0	2.06	-
2417MHz	Pass	PK	2.4162G	114.86	Inf	-Inf	3	Vertical	0	2.06	-
2417MHz	Pass	AV	2.39G	53.77	54.00	-0.23	3	Horizontal	131	2.39	-
2417MHz	Pass	AV	2.4186G	106.41	Inf	-Inf	3	Horizontal	131	2.39	-
2417MHz	Pass	PK	2.3896G	67.46	74.00	-6.54	3	Horizontal	131	2.39	-
2417MHz	Pass	PK	2.4178G	119.28	Inf	-Inf	3	Horizontal	131	2.39	-
2437MHz	Pass	AV	2.385G	48.61	54.00	-5.39	3	Vertical	151	2.86	-
2437MHz	Pass	AV	2.4414G	106.97	Inf	-Inf	3	Vertical	151	2.86	-
2437MHz	Pass	AV	2.4835G	52.31	54.00	-1.69	3	Vertical	151	2.86	-
2437MHz	Pass	PK	2.3866G	62.96	74.00	-11.04	3	Vertical	151	2.86	-
2437MHz	Pass	PK	2.441G	119.82	Inf	-Inf	3	Vertical	151	2.86	-
2437MHz	Pass	PK	2.4838G	65.47	74.00	-8.53	3	Vertical	151	2.86	-
2437MHz	Pass	AV	2.389G	51.10	54.00	-2.90	3	Horizontal	42	1.79	-
2437MHz	Pass	AV	2.4362G	107.69	Inf	-Inf	3	Horizontal	42	1.79	-
2437MHz	Pass	AV	2.4866G	51.36	54.00	-2.64	3	Horizontal	42	1.79	-
2437MHz	Pass	PK	2.3898G	65.50	74.00	-8.50	3	Horizontal	42	1.79	-
2437MHz	Pass	PK	2.4362G	121.33	Inf	-Inf	3	Horizontal	42	1.79	-
2437MHz	Pass	PK	2.4842G	68.42	74.00	-5.58	3	Horizontal	42	1.79	-
2437MHz	Pass	AV	4.87305G	31.47	54.00	-22.53	3	Vertical	74	1.31	-
2437MHz	Pass	AV	7.31119G	35.42	54.00	-18.58	3	Vertical	17	1.34	-
2437MHz	Pass	PK	4.87336G	44.92	74.00	-29.08	3	Vertical	74	1.31	-
2437MHz	Pass	PK	7.31169G	50.44	74.00	-23.56	3	Vertical	17	1.34	-
2437MHz	Pass	AV	4.87395G	30.85	54.00	-23.15	3	Horizontal	29	1.37	-
2437MHz	Pass	AV	7.31082G	35.44	54.00	-18.56	3	Horizontal	347	2.14	-
2437MHz	Pass	PK	4.87398G	44.38	74.00	-29.62	3	Horizontal	29	1.37	-
2437MHz	Pass	PK	7.31125G	49.44	74.00	-24.56	3	Horizontal	347	2.14	-
2457MHz	Pass	AV	2.4512G	105.51	Inf	-Inf	3	Vertical	149	2.90	-
2457MHz	Pass	AV	2.4835G	53.49	54.00	-0.51	3	Vertical	149	2.90	-
2457MHz	Pass	PK	2.4516G	119.08	Inf	-Inf	3	Vertical	149	2.90	-
2457MHz	Pass	PK	2.4838G	66.78	74.00	-7.22	3	Vertical	149	2.90	-
2457MHz	Pass	AV	2.458G	105.91	Inf	-Inf	3	Horizontal	133	2.09	-
2457MHz	Pass	AV	2.4866G	52.54	54.00	-1.46	3	Horizontal	133	2.09	-
2457MHz	Pass	PK	2.4578G	119.26	Inf	-Inf	3	Horizontal	133	2.09	-
2457MHz	Pass	PK	2.487G	67.57	74.00	-6.43	3	Horizontal	133	2.09	-
2462MHz	Pass	AV	2.4652G	100.87	Inf	-Inf	3	Vertical	140	2.91	-
2462MHz	Pass	AV	2.4842G	52.90	54.00	-1.10	3	Vertical	140	2.91	-
2462MHz	Pass	PK	2.4572G	113.97	Inf	-Inf	3	Vertical	140	2.91	-
2462MHz	Pass	PK	2.4846G	68.57	74.00	-5.43	3	Vertical	140	2.91	-
2462MHz	Pass	AV	2.4628G	102.20	Inf	-Inf	3	Horizontal	132	2.12	-
2462MHz	Pass	AV	2.4836G	53.83	54.00	-0.17	3	Horizontal	132	2.12	-



RSE TX above 1GHz_Non-Beamforming

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	2.463G	115.80	Inf	-Inf	3	Horizontal	132	2.12	-
2462MHz	Pass	PK	2.4835G	66.37	74.00	-7.63	3	Horizontal	132	2.12	-
2462MHz	Pass	AV	4.92393G	31.13	54.00	-22.87	3	Vertical	71	0.99	-
2462MHz	Pass	AV	7.3858G	35.47	54.00	-18.53	3	Vertical	214	1.38	-
2462MHz	Pass	PK	4.92436G	44.88	74.00	-29.12	3	Vertical	71	0.99	-
2462MHz	Pass	PK	7.38571G	49.37	74.00	-24.63	3	Vertical	214	1.38	-
2462MHz	Pass	AV	4.924G	31.77	54.00	-22.23	3	Horizontal	23	1.42	-
2462MHz	Pass	AV	7.38548G	35.56	54.00	-18.44	3	Horizontal	126	1.86	-
2462MHz	Pass	PK	4.92366G	43.95	74.00	-30.05	3	Horizontal	23	1.42	-
2462MHz	Pass	PK	7.38538G	49.26	74.00	-24.74	3	Horizontal	126	1.86	-
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	53.18	54.00	-0.82	3	Vertical	323	1.48	-
2422MHz	Pass	AV	2.4108G	95.74	Inf	-Inf	3	Vertical	323	1.48	-
2422MHz	Pass	AV	2.492G	45.72	54.00	-8.28	3	Vertical	323	1.48	-
2422MHz	Pass	PK	2.39G	66.80	74.00	-7.20	3	Vertical	323	1.48	-
2422MHz	Pass	PK	2.4112G	108.25	Inf	-Inf	3	Vertical	323	1.48	-
2422MHz	Pass	PK	2.4932G	56.95	74.00	-17.05	3	Vertical	323	1.48	-
2422MHz	Pass	AV	2.3844G	52.92	54.00	-1.08	3	Horizontal	130	2.41	-
2422MHz	Pass	AV	2.4232G	100.31	Inf	-Inf	3	Horizontal	130	2.41	-
2422MHz	Pass	AV	2.484G	46.19	54.00	-7.81	3	Horizontal	130	2.41	-
2422MHz	Pass	PK	2.3856G	66.28	74.00	-7.72	3	Horizontal	130	2.41	-
2422MHz	Pass	PK	2.4236G	113.10	Inf	-Inf	3	Horizontal	130	2.41	-
2422MHz	Pass	PK	2.4888G	57.22	74.00	-16.78	3	Horizontal	130	2.41	-
2422MHz	Pass	AV	4.84377G	29.12	54.00	-24.88	3	Vertical	140	1.48	-
2422MHz	Pass	PK	4.84328G	42.21	74.00	-31.79	3	Vertical	140	1.48	-
2422MHz	Pass	AV	4.84388G	29.32	54.00	-24.68	3	Horizontal	238	1.62	-
2422MHz	Pass	PK	4.8443G	43.03	74.00	-30.97	3	Horizontal	238	1.62	-
2427MHz	Pass	AV	2.3898G	53.42	54.00	-0.58	3	Vertical	155	2.58	-
2427MHz	Pass	AV	2.441G	99.19	Inf	-Inf	3	Vertical	155	2.58	-
2427MHz	Pass	AV	2.4835G	46.40	54.00	-7.60	3	Vertical	155	2.58	-
2427MHz	Pass	PK	2.381G	65.68	74.00	-8.32	3	Vertical	155	2.58	-
2427MHz	Pass	PK	2.4406G	112.88	Inf	-Inf	3	Vertical	155	2.58	-
2427MHz	Pass	PK	2.4838G	57.82	74.00	-16.18	3	Vertical	155	2.58	-
2427MHz	Pass	AV	2.3878G	53.87	54.00	-0.13	3	Horizontal	36	2.72	-
2427MHz	Pass	AV	2.4258G	100.95	Inf	-Inf	3	Horizontal	36	2.72	-
2427MHz	Pass	AV	2.4854G	46.62	54.00	-7.38	3	Horizontal	36	2.72	-
2427MHz	Pass	PK	2.3882G	66.94	74.00	-7.06	3	Horizontal	36	2.72	-
2427MHz	Pass	PK	2.4358G	112.99	Inf	-Inf	3	Horizontal	36	2.72	-
2427MHz	Pass	PK	2.4854G	58.66	74.00	-15.34	3	Horizontal	36	2.72	-
2437MHz	Pass	AV	2.3898G	50.25	54.00	-3.75	3	Vertical	148	2.56	-
2437MHz	Pass	AV	2.4414G	100.63	Inf	-Inf	3	Vertical	148	2.56	-
2437MHz	Pass	AV	2.4835G	53.08	54.00	-0.92	3	Vertical	148	2.56	-
2437MHz	Pass	PK	2.3854G	62.53	74.00	-11.47	3	Vertical	148	2.56	-
2437MHz	Pass	PK	2.4418G	113.43	Inf	-Inf	3	Vertical	148	2.56	-
2437MHz	Pass	PK	2.4835G	65.27	74.00	-8.73	3	Vertical	148	2.56	-
2437MHz	Pass	AV	2.387G	49.17	54.00	-4.83	3	Horizontal	53	1.79	-
2437MHz	Pass	AV	2.4362G	101.15	Inf	-Inf	3	Horizontal	53	1.79	-
2437MHz	Pass	AV	2.4854G	53.80	54.00	-0.20	3	Horizontal	53	1.79	-
2437MHz	Pass	PK	2.387G	62.45	74.00	-11.55	3	Horizontal	53	1.79	-
2437MHz	Pass	PK	2.4454G	114.03	Inf	-Inf	3	Horizontal	53	1.79	-
2437MHz	Pass	PK	2.485G	67.92	74.00	-6.08	3	Horizontal	53	1.79	-
2437MHz	Pass	AV	4.8737G	29.56	54.00	-24.44	3	Vertical	331	2.11	-
2437MHz	Pass	AV	7.31107G	35.64	54.00	-18.36	3	Vertical	264	1.60	-
2437MHz	Pass	PK	4.87388G	43.44	74.00	-30.56	3	Vertical	331	2.11	-
2437MHz	Pass	PK	7.3114G	49.71	74.00	-24.29	3	Vertical	264	1.60	-
2437MHz	Pass	AV	4.874G	30.56	54.00	-23.44	3	Horizontal	36	1.36	-
2437MHz	Pass	AV	7.31166G	35.66	54.00	-18.34	3	Horizontal	17	1.92	-
2437MHz	Pass	PK	4.87392G	43.54	74.00	-30.46	3	Horizontal	36	1.36	-
2437MHz	Pass	PK	7.31195G	49.61	74.00	-24.39	3	Horizontal	17	1.92	-
2447MHz	Pass	AV	2.3634G	46.18	54.00	-7.82	3	Vertical	148	2.29	-
2447MHz	Pass	AV	2.451G	99.25	Inf	-Inf	3	Vertical	148	2.29	-
2447MHz	Pass	AV	2.4894G	51.80	54.00	-2.20	3	Vertical	148	2.29	-



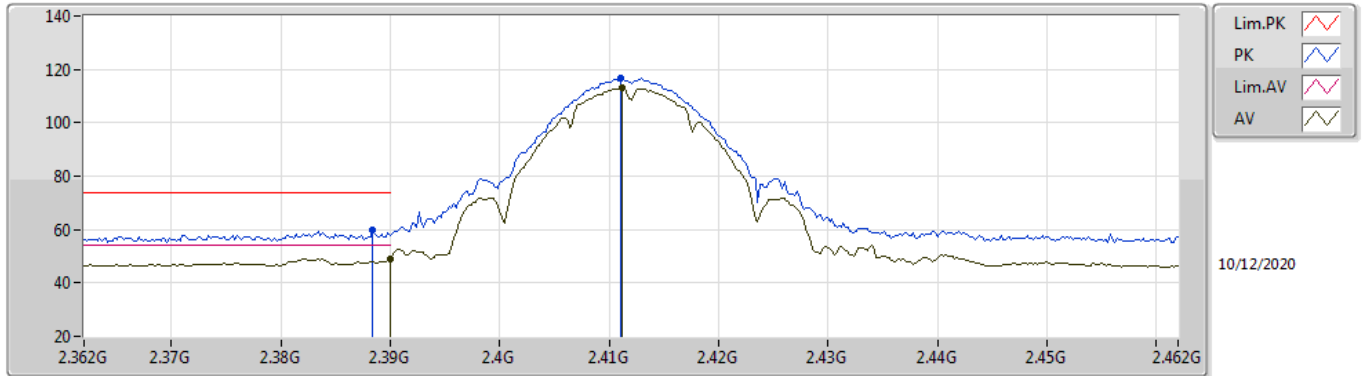
RSE TX above 1GHz _Non-Beamforming

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2447MHz	Pass	PK	2.3778G	58.16	74.00	-15.84	3	Vertical	148	2.29	-
2447MHz	Pass	PK	2.4602G	111.69	Inf	-Inf	3	Vertical	148	2.29	-
2447MHz	Pass	PK	2.491G	64.76	74.00	-9.24	3	Vertical	148	2.29	-
2447MHz	Pass	AV	2.389G	46.25	54.00	-7.75	3	Horizontal	117	2.60	-
2447MHz	Pass	AV	2.4482G	100.86	Inf	-Inf	3	Horizontal	117	2.60	-
2447MHz	Pass	AV	2.4866G	53.50	54.00	-0.50	3	Horizontal	117	2.60	-
2447MHz	Pass	PK	2.3758G	58.73	74.00	-15.27	3	Horizontal	117	2.60	-
2447MHz	Pass	PK	2.4378G	113.26	Inf	-Inf	3	Horizontal	117	2.60	-
2447MHz	Pass	PK	2.485G	66.08	74.00	-7.92	3	Horizontal	117	2.60	-
2452MHz	Pass	AV	2.3576G	46.06	54.00	-7.94	3	Vertical	150	2.31	-
2452MHz	Pass	AV	2.456G	97.30	Inf	-Inf	3	Vertical	150	2.31	-
2452MHz	Pass	AV	2.4848G	53.27	54.00	-0.73	3	Vertical	150	2.31	-
2452MHz	Pass	PK	2.388G	57.41	74.00	-16.59	3	Vertical	150	2.31	-
2452MHz	Pass	PK	2.4552G	110.25	Inf	-Inf	3	Vertical	150	2.31	-
2452MHz	Pass	PK	2.484G	65.23	74.00	-8.77	3	Vertical	150	2.31	-
2452MHz	Pass	AV	2.3844G	46.15	54.00	-7.85	3	Horizontal	129	2.09	-
2452MHz	Pass	AV	2.4532G	98.53	Inf	-Inf	3	Horizontal	129	2.09	-
2452MHz	Pass	AV	2.4835G	53.68	54.00	-0.32	3	Horizontal	129	2.09	-
2452MHz	Pass	PK	2.3712G	58.36	74.00	-15.64	3	Horizontal	129	2.09	-
2452MHz	Pass	PK	2.4428G	112.33	Inf	-Inf	3	Horizontal	129	2.09	-
2452MHz	Pass	PK	2.4872G	66.88	74.00	-7.12	3	Horizontal	129	2.09	-
2452MHz	Pass	AV	4.90442G	29.16	54.00	-24.84	3	Vertical	31	2.00	-
2452MHz	Pass	AV	7.35678G	35.72	54.00	-18.28	3	Vertical	353	1.73	-
2452MHz	Pass	PK	4.90412G	43.29	74.00	-30.71	3	Vertical	31	2.00	-
2452MHz	Pass	PK	7.35663G	49.83	74.00	-24.17	3	Vertical	353	1.73	-
2452MHz	Pass	AV	4.90393G	30.98	54.00	-23.02	3	Horizontal	32	1.46	-
2452MHz	Pass	AV	7.3565G	35.73	54.00	-18.27	3	Horizontal	19	1.24	-
2452MHz	Pass	PK	4.90399G	43.31	74.00	-30.69	3	Horizontal	32	1.46	-
2452MHz	Pass	PK	7.35595G	50.14	74.00	-23.86	3	Horizontal	19	1.24	-

802.11b_Nss1,(1Mbps)_2TX

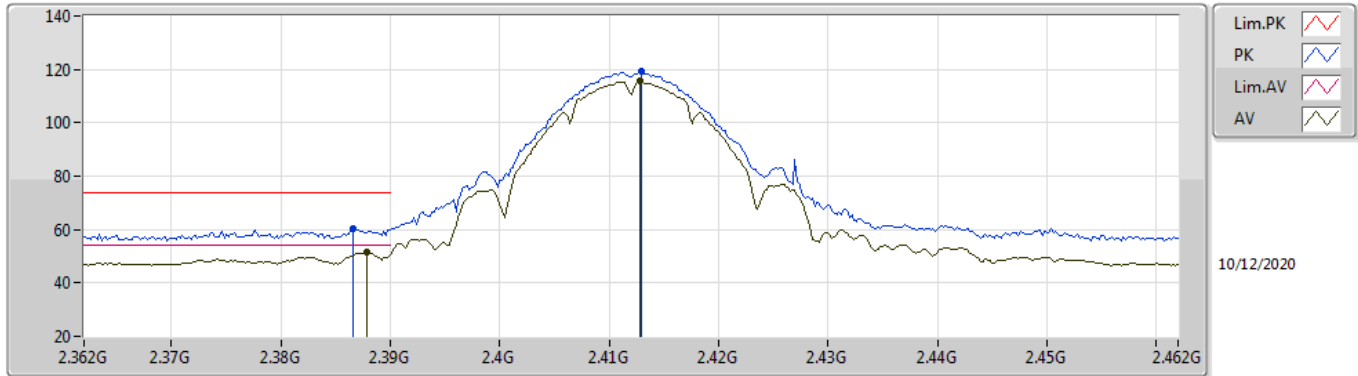
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	49.05	54.00	-4.95	33.57	3	Vertical	339	2.58	-	15.48	27.62	5.95	-
AV	2.4112G	113.14	Inf	-Inf	33.53	3	Vertical	339	2.58	-	79.61	27.56	5.97	-
PK	2.3884G	59.68	74.00	-14.32	33.57	3	Vertical	339	2.58	-	26.11	27.62	5.95	-
PK	2.411G	116.67	Inf	-Inf	33.53	3	Vertical	339	2.58	-	83.14	27.56	5.97	-

802.11b_Nss1,(1Mbps)_2TX

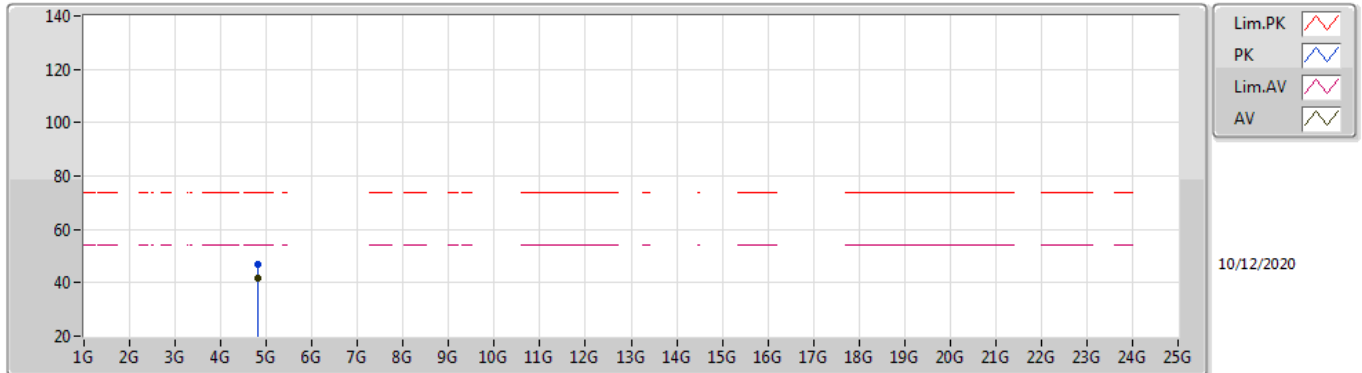
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3878G	51.32	54.00	-2.68	33.57	3	Horizontal	127	2.69	-	17.75	27.62	5.95	-
AV	2.4128G	115.54	Inf	-Inf	33.53	3	Horizontal	127	2.69	-	82.01	27.55	5.98	-
PK	2.3866G	60.41	74.00	-13.59	33.58	3	Horizontal	127	2.69	-	26.83	27.63	5.95	-
PK	2.413G	119.09	Inf	-Inf	33.53	3	Horizontal	127	2.69	-	85.56	27.55	5.98	-

802.11b_Nss1,(1Mbps)_2TX

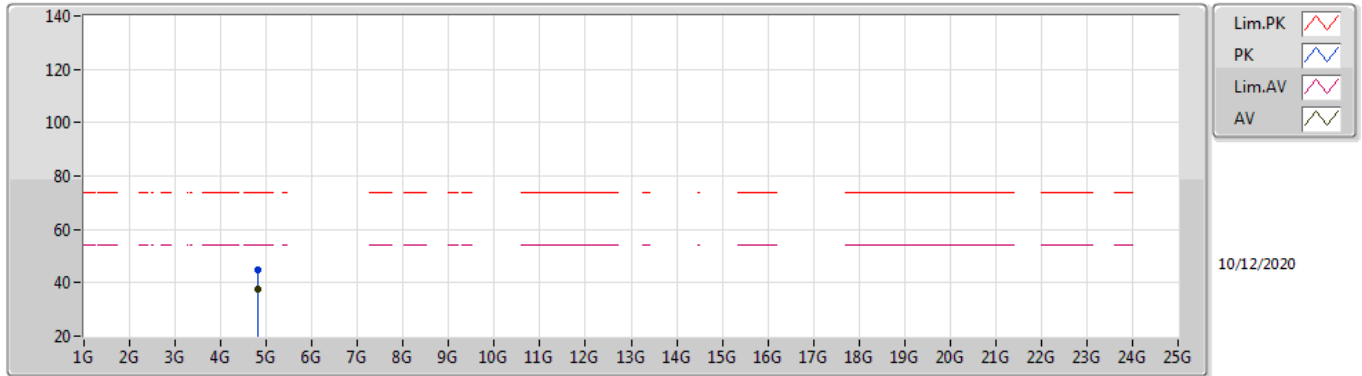
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82397G	41.60	54.00	-12.40	4.99	3	Vertical	67	1.23	-	36.61	31.00	8.27	34.28
PK	4.82385G	46.90	74.00	-27.10	4.99	3	Vertical	67	1.23	-	41.91	31.00	8.27	34.28

802.11b_Nss1,(1Mbps)_2TX

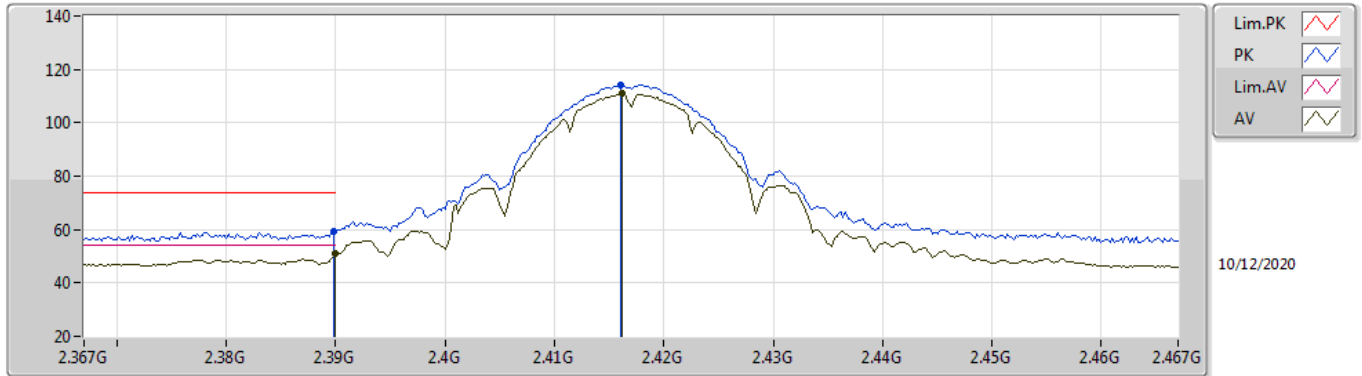
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82395G	37.37	54.00	-16.63	4.99	3	Horizontal	45	1.11	-	32.38	31.00	8.27	34.28
PK	4.824G	44.85	74.00	-29.15	4.99	3	Horizontal	45	1.11	-	39.86	31.00	8.27	34.28

802.11b_Nss1,(1Mbps)_2TX

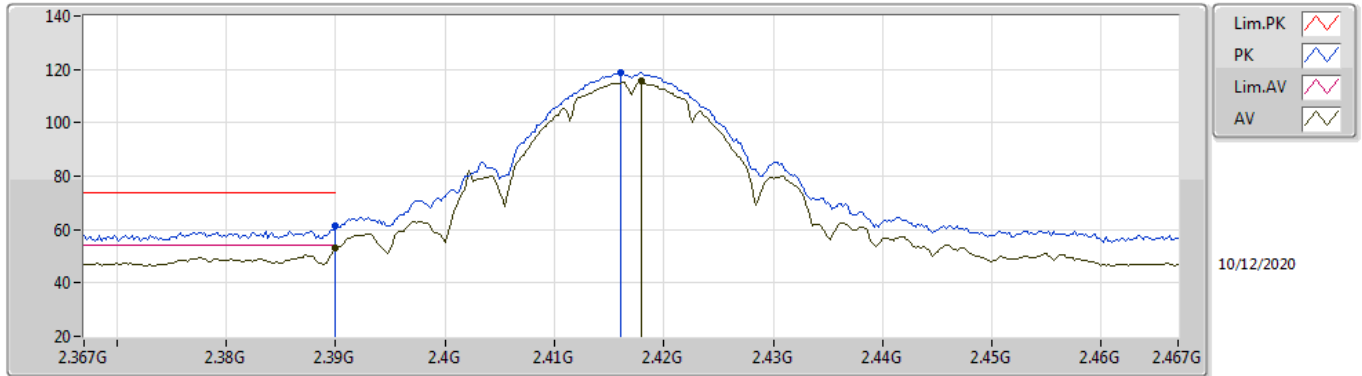
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	50.90	54.00	-3.10	33.57	3	Vertical	202	1.00	-	17.33	27.62	5.95	-
AV	2.4162G	110.87	Inf	-Inf	33.52	3	Vertical	202	1.00	-	77.35	27.54	5.98	-
PK	2.3898G	59.19	74.00	-14.81	33.57	3	Vertical	202	1.00	-	25.62	27.62	5.95	-
PK	2.416G	114.38	Inf	-Inf	33.52	3	Vertical	202	1.00	-	80.86	27.54	5.98	-

802.11b_Nss1,(1Mbps)_2TX

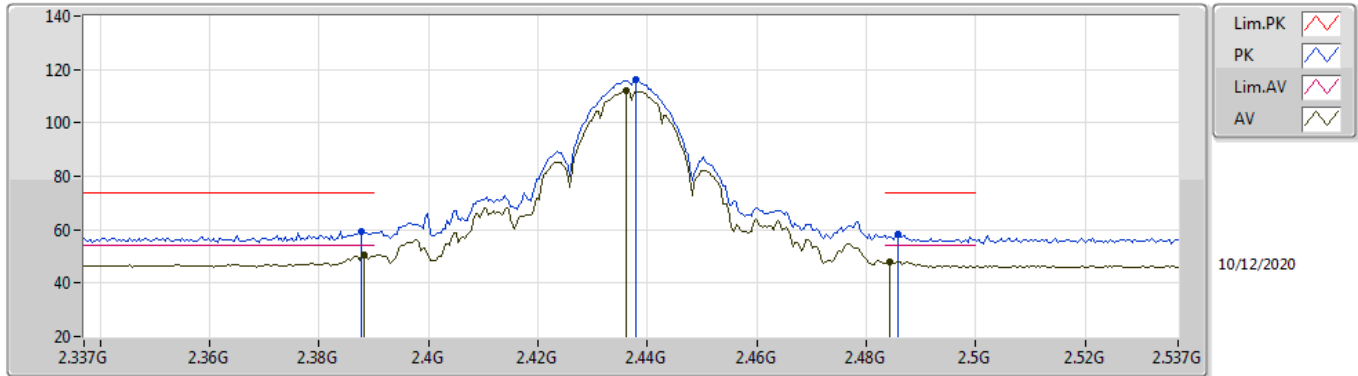
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	52.99	54.00	-1.01	33.57	3	Horizontal	54	2.27	-	19.42	27.62	5.95	-
AV	2.418G	115.58	Inf	-Inf	33.51	3	Horizontal	54	2.27	-	82.07	27.53	5.98	-
PK	2.39G	61.14	74.00	-12.86	33.57	3	Horizontal	54	2.27	-	27.57	27.62	5.95	-
PK	2.416G	118.76	Inf	-Inf	33.52	3	Horizontal	54	2.27	-	85.24	27.54	5.98	-

802.11b_Nss1,(1Mbps)_2TX

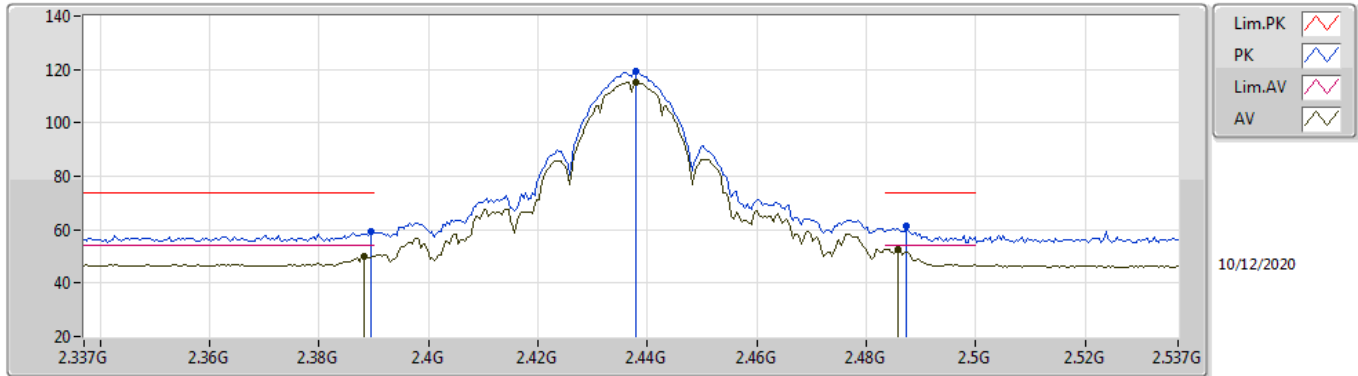
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3882G	50.62	54.00	-3.38	33.57	3	Vertical	331	2.13	-	17.05	27.62	5.95	-
AV	2.4362G	112.30	Inf	-Inf	33.46	3	Vertical	331	2.13	-	78.84	27.46	6.00	-
AV	2.4842G	48.15	54.00	-5.85	33.46	3	Vertical	331	2.13	-	14.69	27.40	6.06	-
PK	2.3878G	59.46	74.00	-14.54	33.57	3	Vertical	331	2.13	-	25.89	27.62	5.95	-
PK	2.4378G	115.98	Inf	-Inf	33.46	3	Vertical	331	2.13	-	82.52	27.45	6.01	-
PK	2.4858G	58.34	74.00	-15.66	33.46	3	Vertical	331	2.13	-	24.88	27.40	6.06	-

802.11b_Nss1,(1Mbps)_2TX

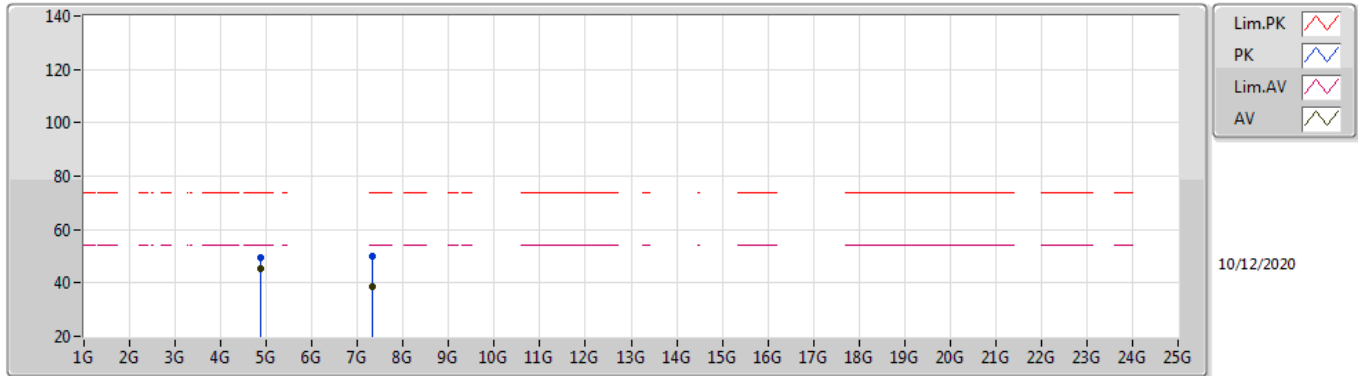
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3882G	50.14	54.00	-3.86	33.57	3	Horizontal	41	1.77	-	16.57	27.62	5.95	-
AV	2.4378G	115.31	Inf	-Inf	33.46	3	Horizontal	41	1.77	-	81.85	27.45	6.01	-
AV	2.4858G	52.71	54.00	-1.29	33.46	3	Horizontal	41	1.77	-	19.25	27.40	6.06	-
PK	2.3894G	59.52	74.00	-14.48	33.57	3	Horizontal	41	1.77	-	25.95	27.62	5.95	-
PK	2.4378G	119.06	Inf	-Inf	33.46	3	Horizontal	41	1.77	-	85.60	27.45	6.01	-
PK	2.4874G	61.57	74.00	-12.43	33.46	3	Horizontal	41	1.77	-	28.11	27.40	6.06	-

802.11b_Nss1,(1Mbps)_2TX

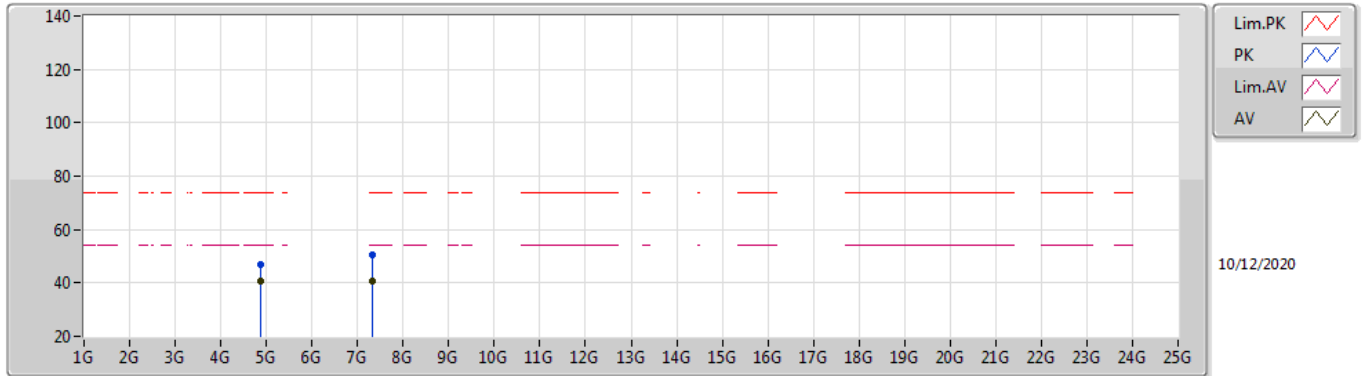
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87402G	45.32	54.00	-8.68	5.09	3	Vertical	71	1.15	-	40.23	31.05	8.30	34.26
AV	7.31174G	38.45	54.00	-15.55	11.81	3	Vertical	32	1.41	-	26.64	36.35	10.03	34.57
PK	4.87392G	49.26	74.00	-24.74	5.09	3	Vertical	71	1.15	-	44.17	31.05	8.30	34.26
PK	7.31187G	50.24	74.00	-23.76	11.81	3	Vertical	32	1.41	-	38.43	36.35	10.03	34.57

802.11b_Nss1,(1Mbps)_2TX

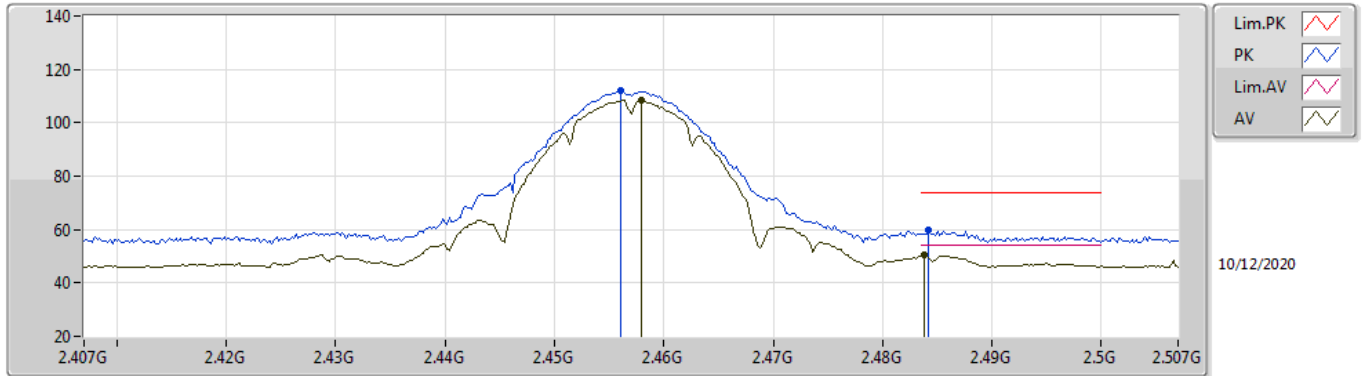
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87394G	40.60	54.00	-13.40	5.09	3	Horizontal	44	1.39	-	35.51	31.05	8.30	34.26
AV	7.31182G	40.75	54.00	-13.25	11.81	3	Horizontal	293	1.79	-	28.94	36.35	10.03	34.57
PK	4.87404G	46.72	74.00	-27.28	5.09	3	Horizontal	44	1.39	-	41.63	31.05	8.30	34.26
PK	7.3105G	50.62	74.00	-23.38	11.82	3	Horizontal	293	1.79	-	38.80	36.36	10.03	34.57

802.11b_Nss1,(1Mbps)_2TX

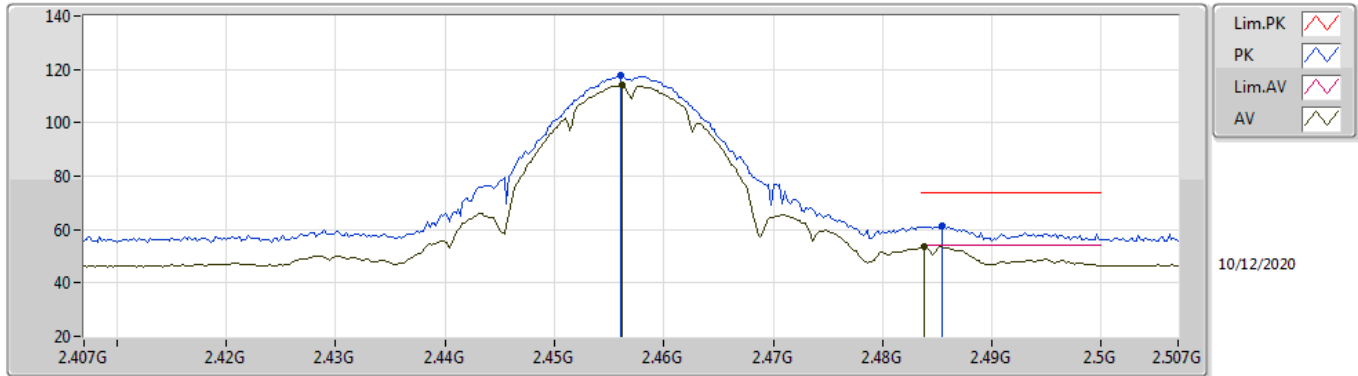
2457MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.458G	108.38	Inf	-Inf	33.43	3	Vertical	358	2.84	-	74.95	27.40	6.03	-
AV	2.4838G	50.72	54.00	-3.28	33.46	3	Vertical	358	2.84	-	17.26	27.40	6.06	-
PK	2.456G	111.86	Inf	-Inf	33.43	3	Vertical	358	2.84	-	78.43	27.40	6.03	-
PK	2.4842G	59.97	74.00	-14.03	33.46	3	Vertical	358	2.84	-	26.51	27.40	6.06	-

802.11b_Nss1,(1Mbps)_2TX

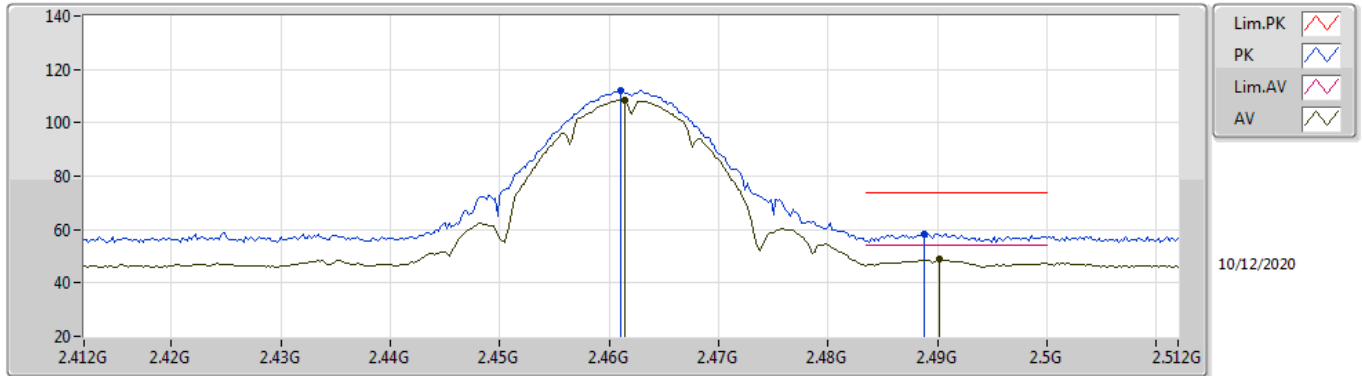
2457MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4562G	114.00	Inf	-Inf	33.43	3	Horizontal	127	2.10	-	80.57	27.40	6.03	-
AV	2.4838G	53.85	54.00	-0.15	33.46	3	Horizontal	127	2.10	-	20.39	27.40	6.06	-
PK	2.456G	117.59	Inf	-Inf	33.43	3	Horizontal	127	2.10	-	84.16	27.40	6.03	-
PK	2.4854G	61.40	74.00	-12.60	33.46	3	Horizontal	127	2.10	-	27.94	27.40	6.06	-

802.11b_Nss1,(1Mbps)_2TX

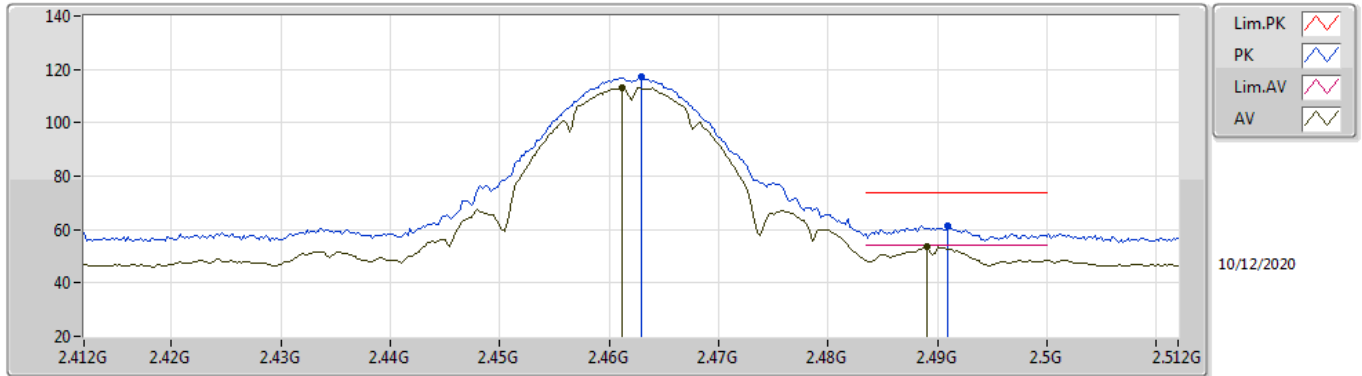
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4614G	108.67	Inf	-Inf	33.43	3	Vertical	189	1.23	-	75.24	27.40	6.03	-
AV	2.4902G	48.78	54.00	-5.22	33.47	3	Vertical	189	1.23	-	15.31	27.40	6.07	-
PK	2.461G	112.06	Inf	-Inf	33.43	3	Vertical	189	1.23	-	78.63	27.40	6.03	-
PK	2.4888G	58.44	74.00	-15.56	33.47	3	Vertical	189	1.23	-	24.97	27.40	6.07	-

802.11b_Nss1,(1Mbps)_2TX

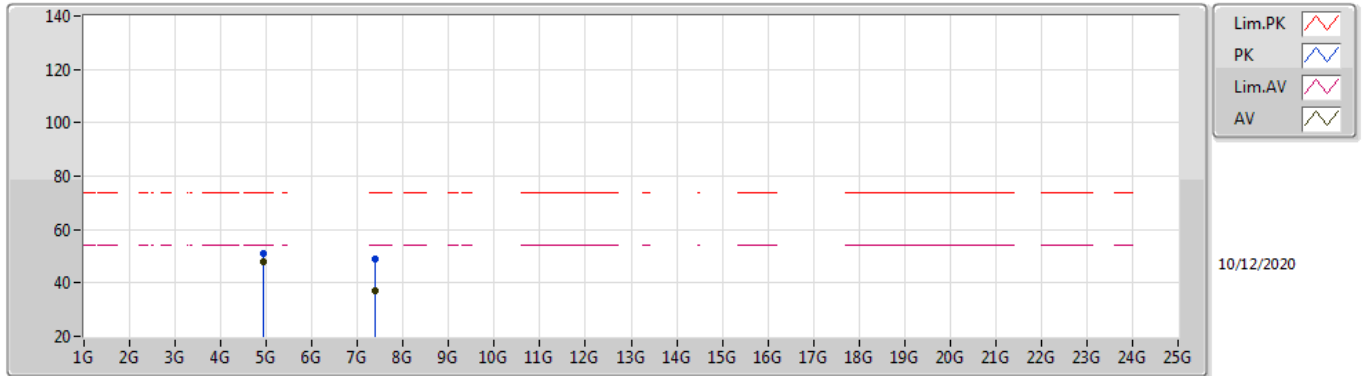
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	117.00	Inf	-Inf	33.44	3	Horizontal	31	1.14	-	83.56	27.40	6.04	-
AV	2.4612G	113.31	Inf	-Inf	33.43	3	Horizontal	31	1.14	-	79.88	27.40	6.03	-
PK	2.491G	61.52	74.00	-12.48	33.47	3	Horizontal	31	1.14	-	28.05	27.40	6.07	-
AV	2.489G	53.55	54.00	-0.45	33.47	3	Horizontal	31	1.14	-	20.08	27.40	6.07	-

802.11b_Nss1,(1Mbps)_2TX

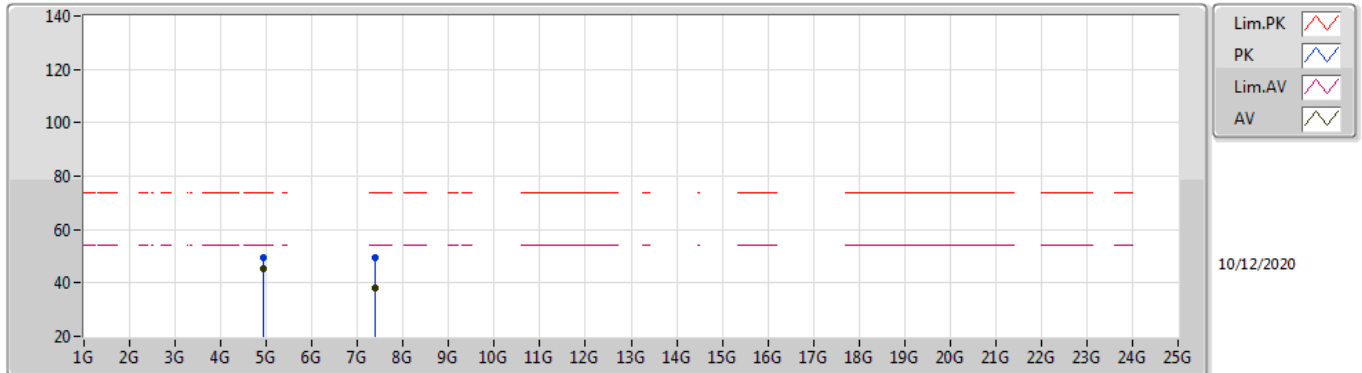
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92393G	47.82	54.00	-6.18	5.18	3	Vertical	73	1.24	-	42.64	31.10	8.33	34.25
AV	7.38535G	36.83	54.00	-17.17	11.60	3	Vertical	356	1.50	-	25.23	36.13	10.05	34.58
PK	4.924G	51.15	74.00	-22.85	5.18	3	Vertical	73	1.24	-	45.97	31.10	8.33	34.25
PK	7.38594G	49.04	74.00	-24.96	11.60	3	Vertical	356	1.50	-	37.44	36.13	10.05	34.58

802.11b_Nss1,(1Mbps)_2TX

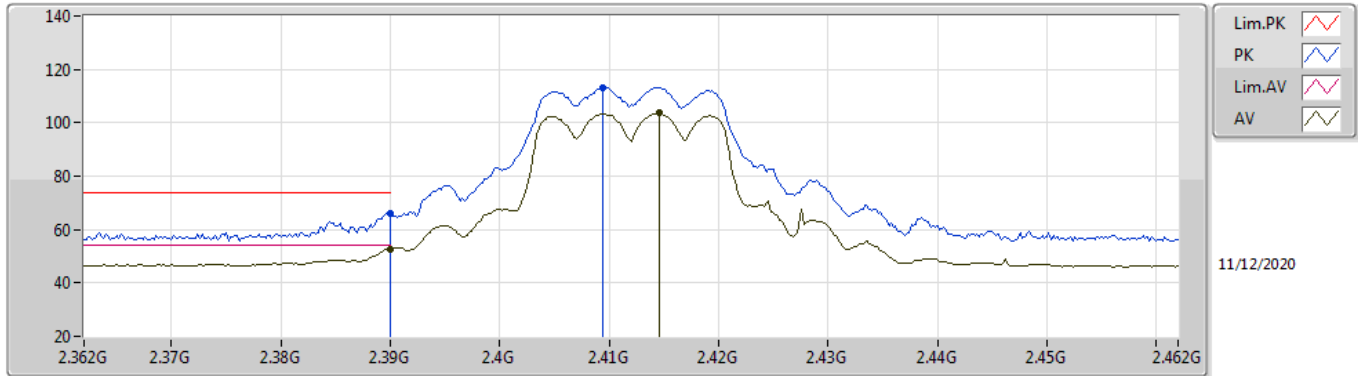
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.924G	45.51	54.00	-8.49	5.18	3	Horizontal	33	1.49	-	40.33	31.10	8.33	34.25
AV	7.38671G	38.25	54.00	-15.75	11.60	3	Horizontal	68	1.97	-	26.65	36.13	10.05	34.58
PK	4.924G	49.42	74.00	-24.58	5.18	3	Horizontal	33	1.49	-	44.24	31.10	8.33	34.25
PK	7.38626G	49.67	74.00	-24.33	11.60	3	Horizontal	68	1.97	-	38.07	36.13	10.05	34.58

802.11g_Nss1,(6Mbps)_2TX

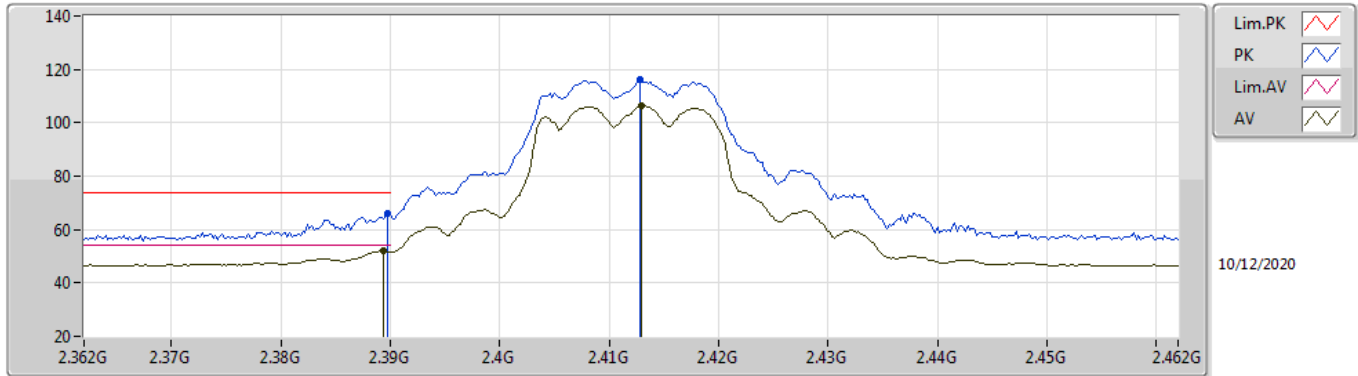
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	52.80	54.00	-1.20	33.57	3	Vertical	146	2.55	-	19.23	27.62	5.95	-
AV	2.4146G	103.55	Inf	-Inf	33.52	3	Vertical	146	2.55	-	70.03	27.54	5.98	-
PK	2.39G	65.97	74.00	-8.03	33.57	3	Vertical	146	2.55	-	32.40	27.62	5.95	-
PK	2.4094G	113.19	Inf	-Inf	33.53	3	Vertical	146	2.55	-	79.66	27.56	5.97	-

802.11g_Nss1,(6Mbps)_2TX

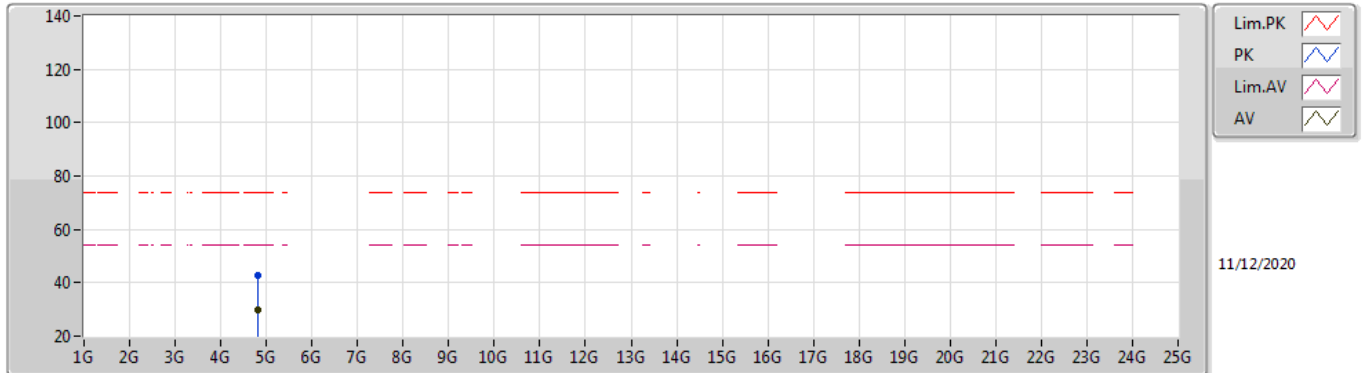
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	52.06	54.00	-1.94	33.57	3	Horizontal	117	2.68	-	18.49	27.62	5.95	-
AV	2.413G	106.30	Inf	-Inf	33.53	3	Horizontal	117	2.68	-	72.77	27.55	5.98	-
PK	2.3898G	66.01	74.00	-7.99	33.57	3	Horizontal	117	2.68	-	32.44	27.62	5.95	-
PK	2.4128G	115.95	Inf	-Inf	33.53	3	Horizontal	117	2.68	-	82.42	27.55	5.98	-

802.11g_Nss1,(6Mbps)_2TX

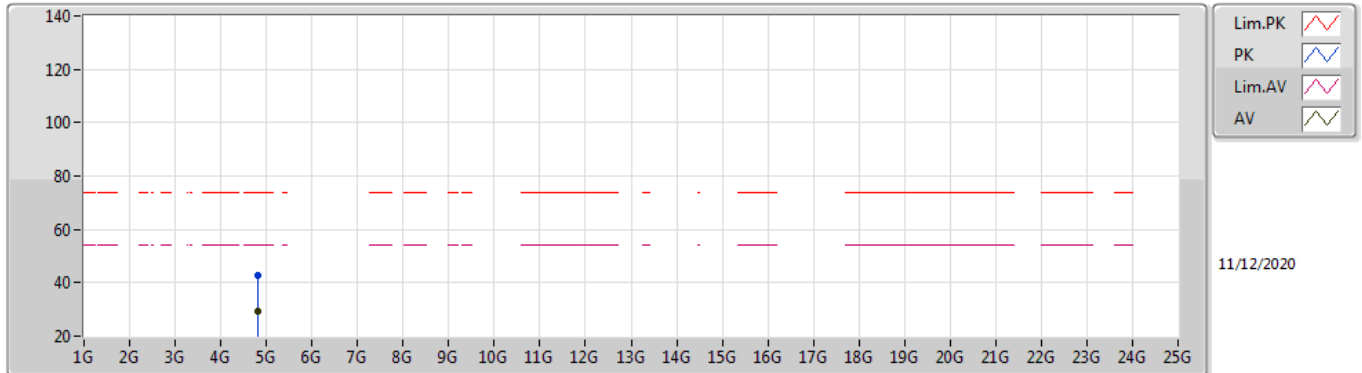
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82408G	29.94	54.00	-24.06	4.99	3	Vertical	72	2.85	-	24.95	31.00	8.27	34.28
PK	4.82477G	42.73	74.00	-31.27	4.99	3	Vertical	72	2.85	-	37.74	31.00	8.27	34.28

802.11g_Nss1,(6Mbps)_2TX

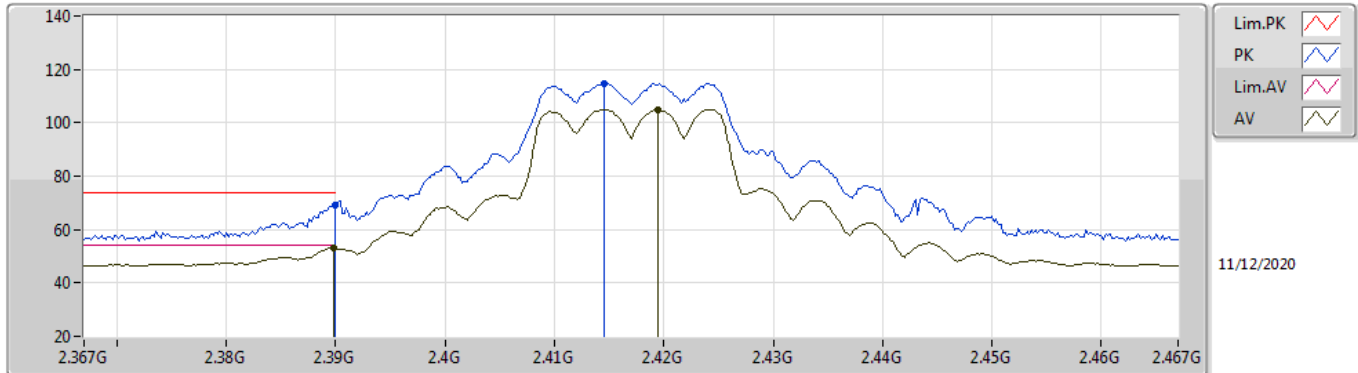
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82389G	29.54	54.00	-24.46	4.99	3	Horizontal	113	1.61	-	24.55	31.00	8.27	34.28
PK	4.82363G	42.63	74.00	-31.37	4.98	3	Horizontal	113	1.61	-	37.65	30.99	8.27	34.28

802.11g_Nss1,(6Mbps)_2TX

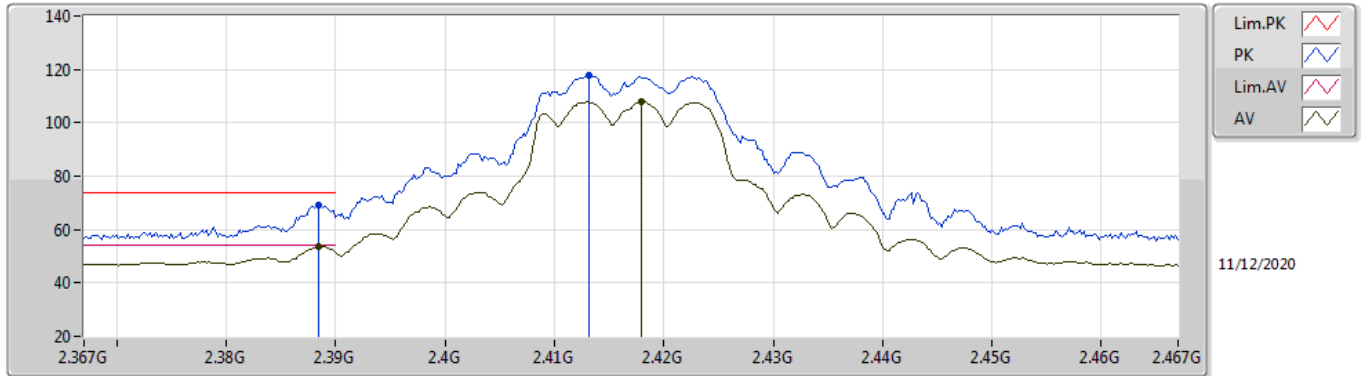
2417MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	52.98	54.00	-1.02	33.57	3	Vertical	148	2.60	-	19.41	27.62	5.95	-
AV	2.4194G	105.02	Inf	-Inf	33.50	3	Vertical	148	2.60	-	71.52	27.52	5.98	-
PK	2.39G	69.13	74.00	-4.87	33.57	3	Vertical	148	2.60	-	35.56	27.62	5.95	-
PK	2.4146G	114.84	Inf	-Inf	33.52	3	Vertical	148	2.60	-	81.32	27.54	5.98	-

802.11g_Nss1,(6Mbps)_2TX

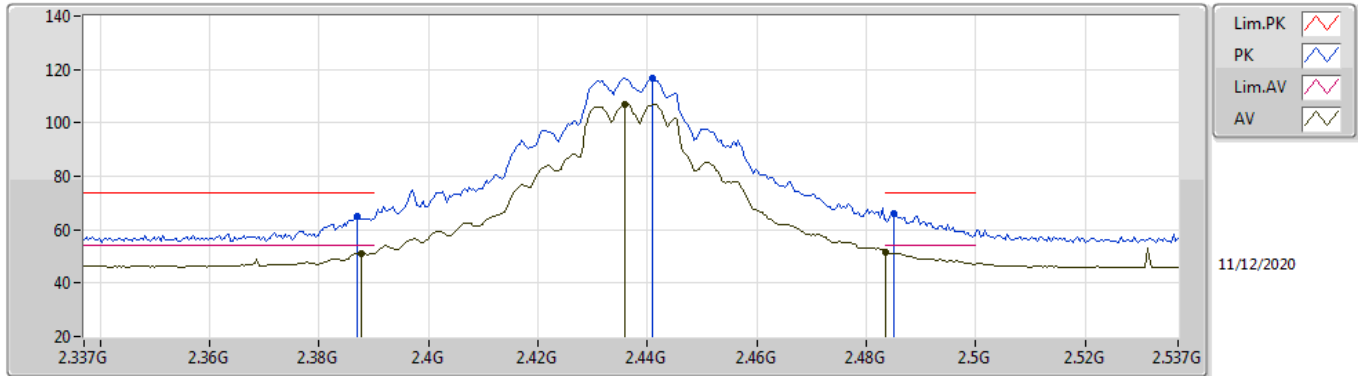
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3884G	53.55	54.00	-0.45	33.57	3	Horizontal	132	2.41	-	19.98	27.62	5.95	-
AV	2.418G	107.93	Inf	-Inf	33.51	3	Horizontal	132	2.41	-	74.42	27.53	5.98	-
PK	2.3884G	68.91	74.00	-5.09	33.57	3	Horizontal	132	2.41	-	35.34	27.62	5.95	-
PK	2.4132G	117.68	Inf	-Inf	33.53	3	Horizontal	132	2.41	-	84.15	27.55	5.98	-

802.11g_Nss1,(6Mbps)_2TX

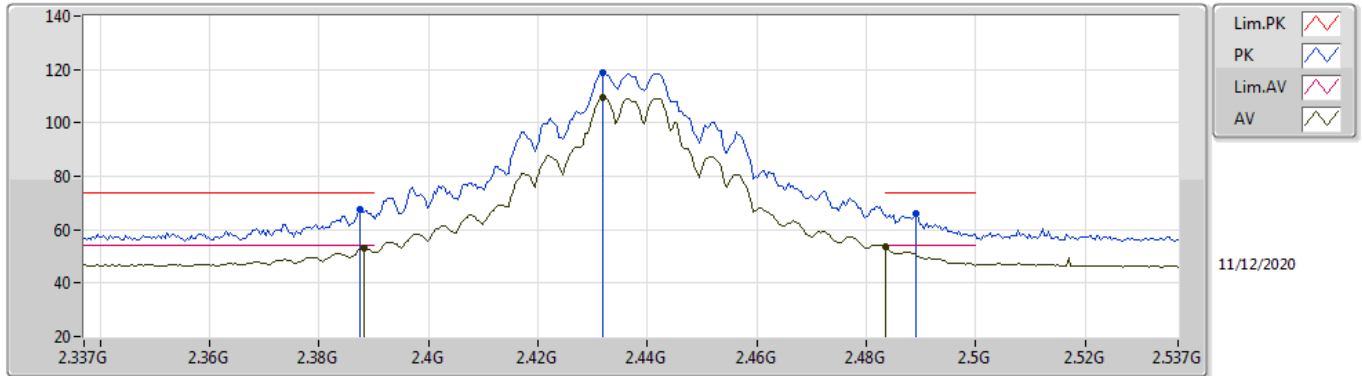
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3878G	51.26	54.00	-2.74	33.57	3	Vertical	358	2.29	-	17.69	27.62	5.95	-
AV	2.4358G	107.09	Inf	-Inf	33.46	3	Vertical	358	2.29	-	73.63	27.46	6.00	-
AV	2.4835G	51.56	54.00	-2.44	33.46	3	Vertical	358	2.29	-	18.10	27.40	6.06	-
PK	2.387G	64.82	74.00	-9.18	33.58	3	Vertical	358	2.29	-	31.24	27.63	5.95	-
PK	2.441G	116.78	Inf	-Inf	33.45	3	Vertical	358	2.29	-	83.33	27.44	6.01	-
PK	2.485G	65.94	74.00	-8.06	33.46	3	Vertical	358	2.29	-	32.48	27.40	6.06	-

802.11g_Nss1,(6Mbps)_2TX

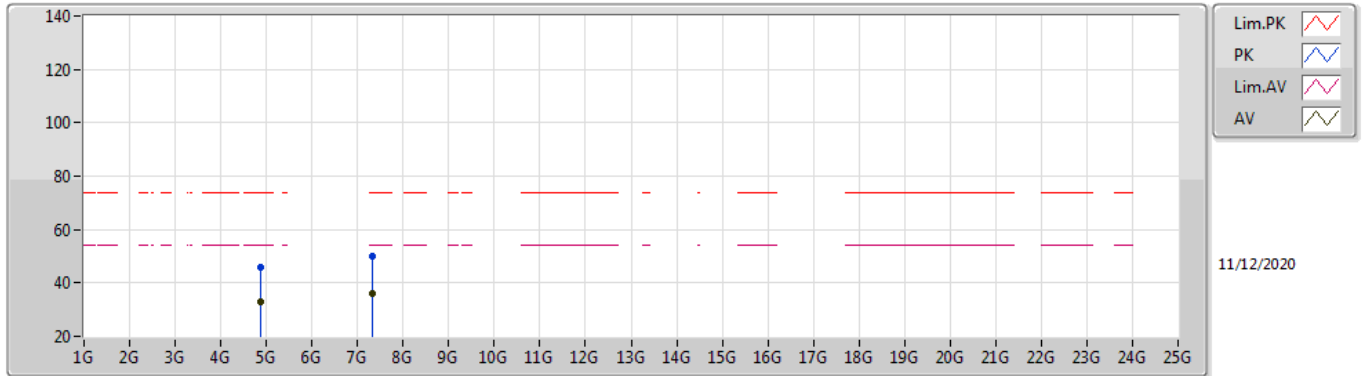
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3882G	53.01	54.00	-0.99	33.57	3	Horizontal	34	2.43	-	19.44	27.62	5.95	-
AV	2.4318G	109.40	Inf	-Inf	33.47	3	Horizontal	34	2.43	-	75.93	27.47	6.00	-
AV	2.4835G	53.44	54.00	-0.56	33.46	3	Horizontal	34	2.43	-	19.98	27.40	6.06	-
PK	2.3874G	67.77	74.00	-6.23	33.58	3	Horizontal	34	2.43	-	34.19	27.63	5.95	-
PK	2.4318G	118.89	Inf	-Inf	33.47	3	Horizontal	34	2.43	-	85.42	27.47	6.00	-
PK	2.489G	66.28	74.00	-7.72	33.47	3	Horizontal	34	2.43	-	32.81	27.40	6.07	-

802.11g_Nss1,(6Mbps)_2TX

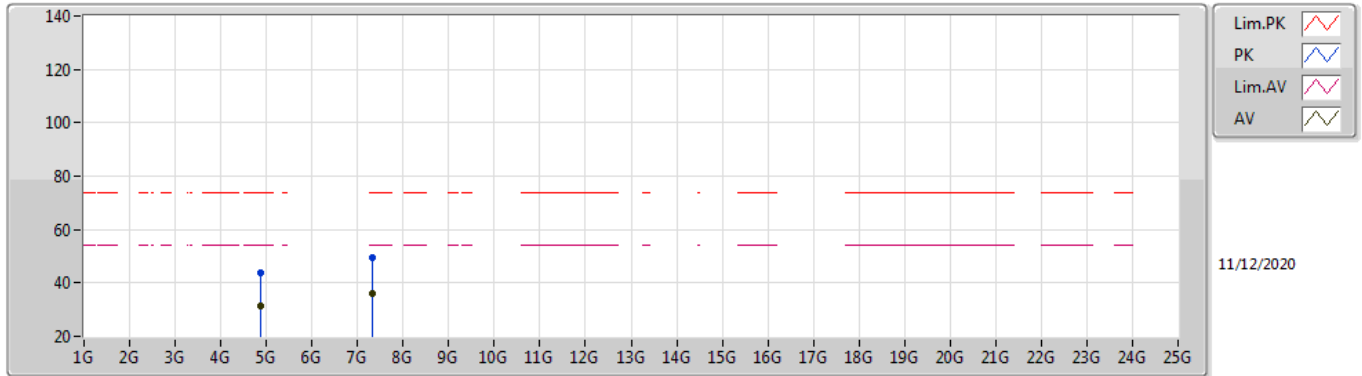
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87375G	32.86	54.00	-21.14	5.09	3	Vertical	68	1.00	-	27.77	31.05	8.30	34.26
AV	7.3116G	36.19	54.00	-17.81	11.81	3	Vertical	136	2.13	-	24.38	36.35	10.03	34.57
PK	4.87326G	45.80	74.00	-28.20	5.09	3	Vertical	68	1.00	-	40.71	31.05	8.30	34.26
PK	7.31085G	49.82	74.00	-24.18	11.82	3	Vertical	136	2.13	-	38.00	36.36	10.03	34.57

802.11g_Nss1,(6Mbps)_2TX

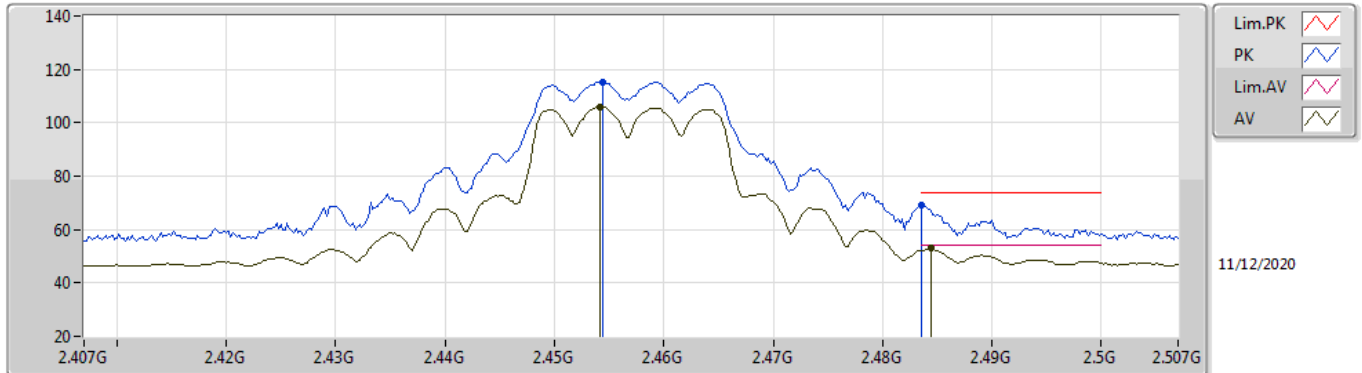
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87392G	31.46	54.00	-22.54	5.09	3	Horizontal	35	1.63	-	26.37	31.05	8.30	34.26
AV	7.31041G	35.99	54.00	-18.01	11.82	3	Horizontal	245	1.57	-	24.17	36.36	10.03	34.57
PK	4.87466G	43.65	74.00	-30.35	5.09	3	Horizontal	35	1.63	-	38.56	31.05	8.30	34.26
PK	7.3116G	49.60	74.00	-24.40	11.81	3	Horizontal	245	1.57	-	37.79	36.35	10.03	34.57

802.11g_Nss1,(6Mbps)_2TX

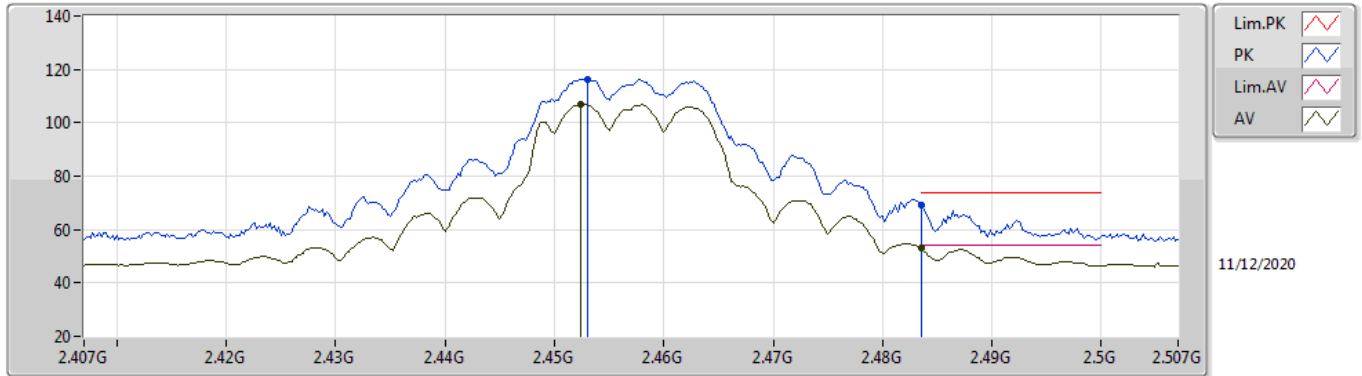
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4542G	105.74	Inf	-Inf	33.43	3	Vertical	155	2.88	-	72.31	27.40	6.03	-
AV	2.4844G	52.93	54.00	-1.07	33.46	3	Vertical	155	2.88	-	19.47	27.40	6.06	-
PK	2.4544G	115.41	Inf	-Inf	33.43	3	Vertical	155	2.88	-	81.98	27.40	6.03	-
PK	2.4835G	69.23	74.00	-4.77	33.46	3	Vertical	155	2.88	-	35.77	27.40	6.06	-

802.11g_Nss1,(6Mbps)_2TX

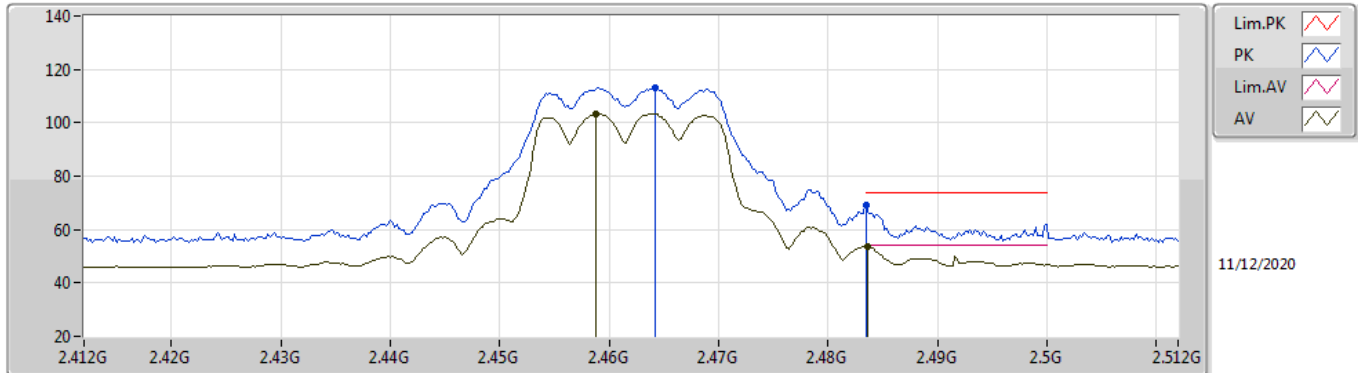
2457MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4524G	106.95	Inf	-Inf	33.42	3	Horizontal	130	2.36	-	73.53	27.40	6.02	-
AV	2.4835G	53.15	54.00	-0.85	33.46	3	Horizontal	130	2.36	-	19.69	27.40	6.06	-
PK	2.453G	116.25	Inf	-Inf	33.42	3	Horizontal	130	2.36	-	82.83	27.40	6.02	-
PK	2.4835G	69.34	74.00	-4.66	33.46	3	Horizontal	130	2.36	-	35.88	27.40	6.06	-

802.11g_Nss1,(6Mbps)_2TX

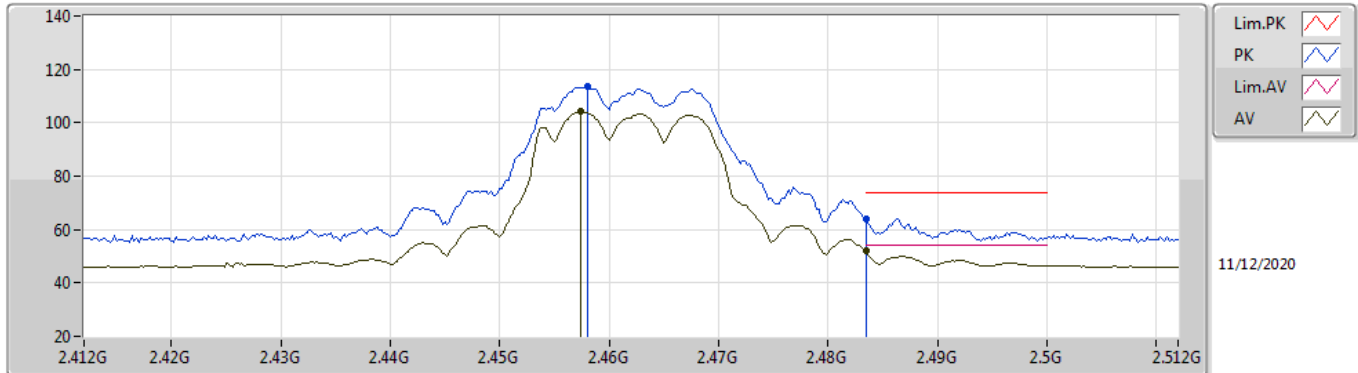
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4588G	103.42	Inf	-Inf	33.43	3	Vertical	146	2.81	-	69.99	27.40	6.03	-
AV	2.4836G	53.38	54.00	-0.62	33.46	3	Vertical	146	2.81	-	19.92	27.40	6.06	-
PK	2.4642G	112.90	Inf	-Inf	33.44	3	Vertical	146	2.81	-	79.46	27.40	6.04	-
PK	2.4835G	69.22	74.00	-4.78	33.46	3	Vertical	146	2.81	-	35.76	27.40	6.06	-

802.11g_Nss1,(6Mbps)_2TX

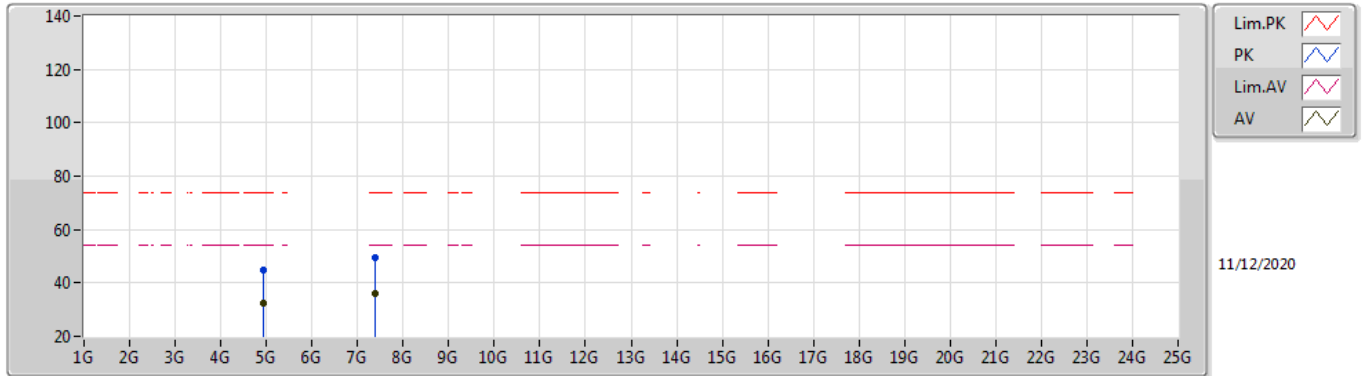
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4574G	104.22	Inf	-Inf	33.43	3	Horizontal	133	2.10	-	70.79	27.40	6.03	-
AV	2.4835G	52.16	54.00	-1.84	33.46	3	Horizontal	133	2.10	-	18.70	27.40	6.06	-
PK	2.458G	113.49	Inf	-Inf	33.43	3	Horizontal	133	2.10	-	80.06	27.40	6.03	-
PK	2.4835G	64.02	74.00	-9.98	33.46	3	Horizontal	133	2.10	-	30.56	27.40	6.06	-

802.11g_Nss1,(6Mbps)_2TX

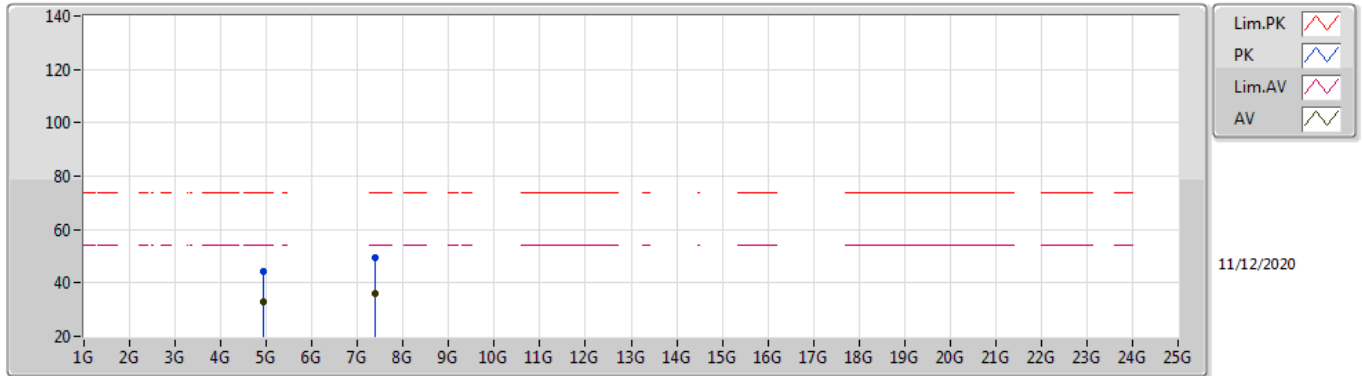
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9235G	32.35	54.00	-21.65	5.17	3	Vertical	64	1.00	-	27.18	31.09	8.33	34.25
AV	7.38654G	35.95	54.00	-18.05	11.60	3	Vertical	46	1.75	-	24.35	36.13	10.05	34.58
PK	4.92388G	45.05	74.00	-28.95	5.18	3	Vertical	64	1.00	-	39.87	31.10	8.33	34.25
PK	7.38522G	49.60	74.00	-24.40	11.60	3	Vertical	46	1.75	-	38.00	36.13	10.05	34.58

802.11g_Nss1,(6Mbps)_2TX

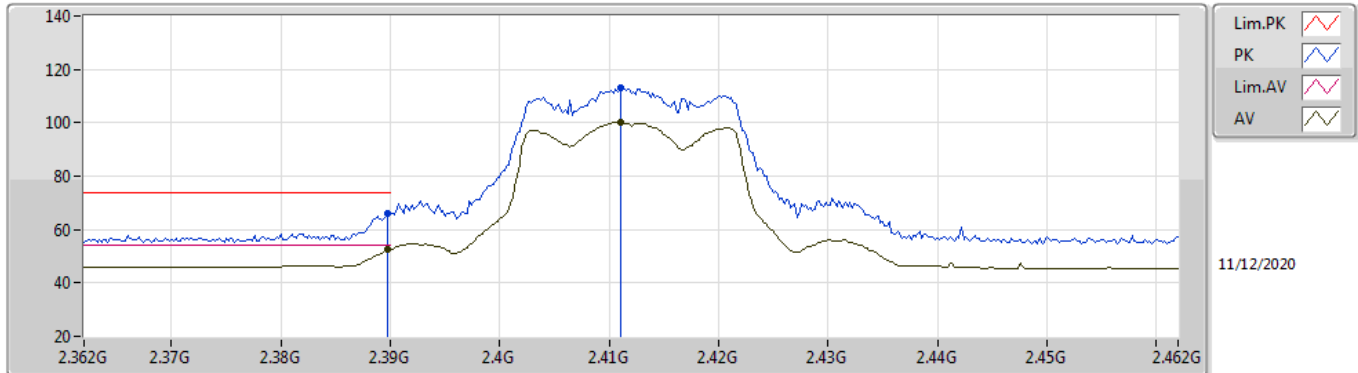
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92393G	32.69	54.00	-21.31	5.18	3	Horizontal	28	1.48	-	27.51	31.10	8.33	34.25
AV	7.38555G	35.96	54.00	-18.04	11.60	3	Horizontal	352	1.81	-	24.36	36.13	10.05	34.58
PK	4.92391G	44.36	74.00	-29.64	5.18	3	Horizontal	28	1.48	-	39.18	31.10	8.33	34.25
PK	7.38652G	49.37	74.00	-24.63	11.60	3	Horizontal	352	1.81	-	37.77	36.13	10.05	34.58

802.11ax HEW20_Nss1,(MCS0)_2TX

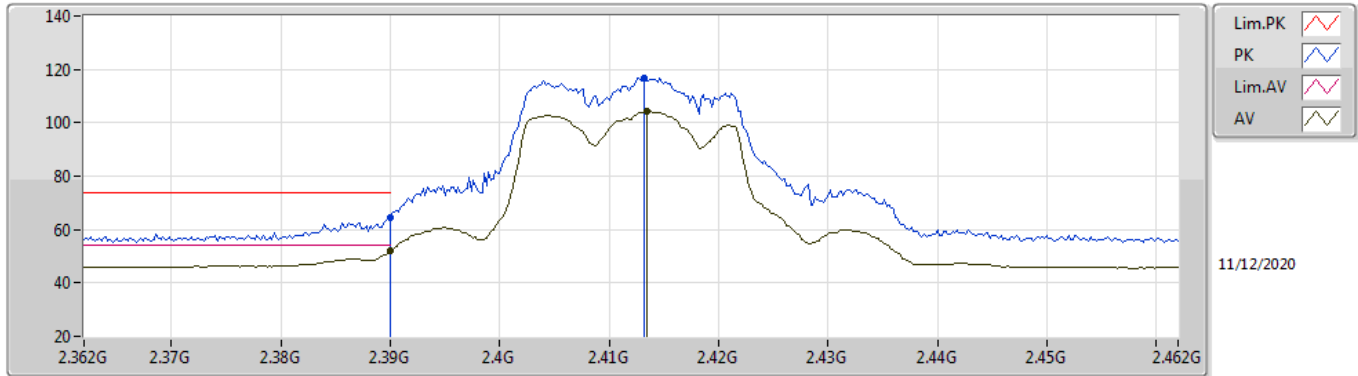
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	52.79	54.00	-1.21	33.57	3	Vertical	336	1.93	-	19.22	27.62	5.95	-
AV	2.411G	100.38	Inf	-Inf	33.53	3	Vertical	336	1.93	-	66.85	27.56	5.97	-
PK	2.3898G	65.90	74.00	-8.10	33.57	3	Vertical	336	1.93	-	32.33	27.62	5.95	-
PK	2.411G	113.31	Inf	-Inf	33.53	3	Vertical	336	1.93	-	79.78	27.56	5.97	-

802.11ax HEW20_Nss1,(MCS0)_2TX

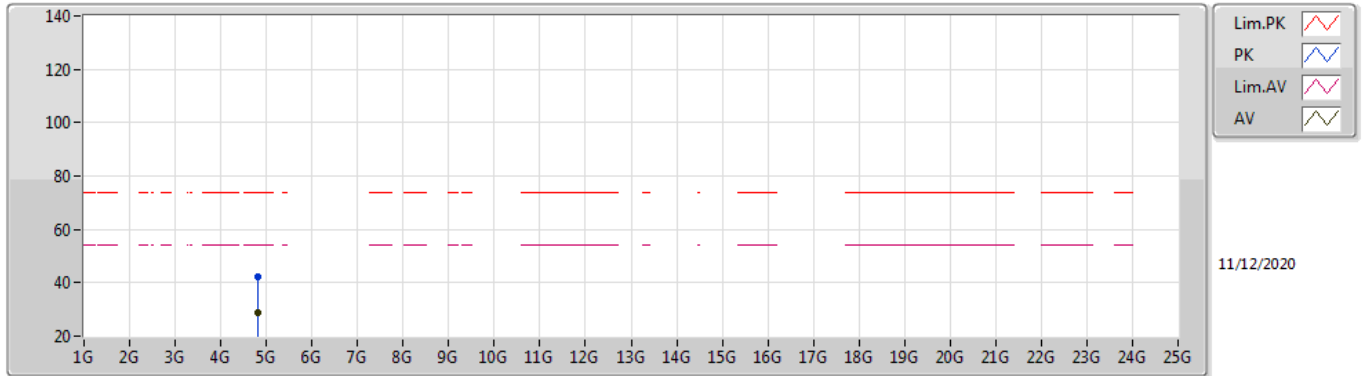
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	52.01	54.00	-1.99	33.57	3	Horizontal	127	2.70	-	18.44	27.62	5.95	-
AV	2.4134G	104.07	Inf	-Inf	33.53	3	Horizontal	127	2.70	-	70.54	27.55	5.98	-
PK	2.39G	64.25	74.00	-9.75	33.57	3	Horizontal	127	2.70	-	30.68	27.62	5.95	-
PK	2.4132G	116.83	Inf	-Inf	33.53	3	Horizontal	127	2.70	-	83.30	27.55	5.98	-

802.11ax HEW20_Nss1,(MCS0)_2TX

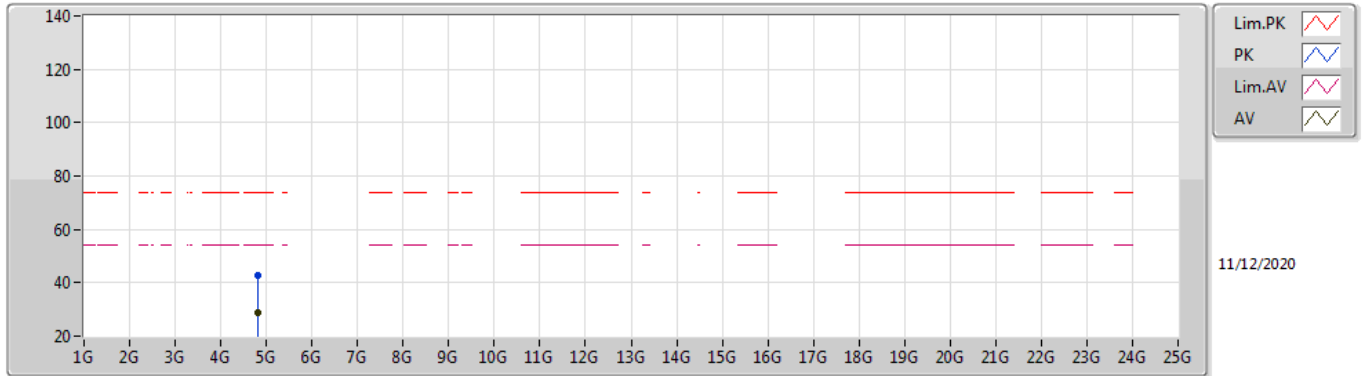
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82409G	28.60	54.00	-25.40	4.99	3	Vertical	238	2.21	-	23.61	31.00	8.27	34.28
PK	4.82388G	42.43	74.00	-31.57	4.99	3	Vertical	238	2.21	-	37.44	31.00	8.27	34.28

802.11ax HEW20_Nss1,(MCS0)_2TX

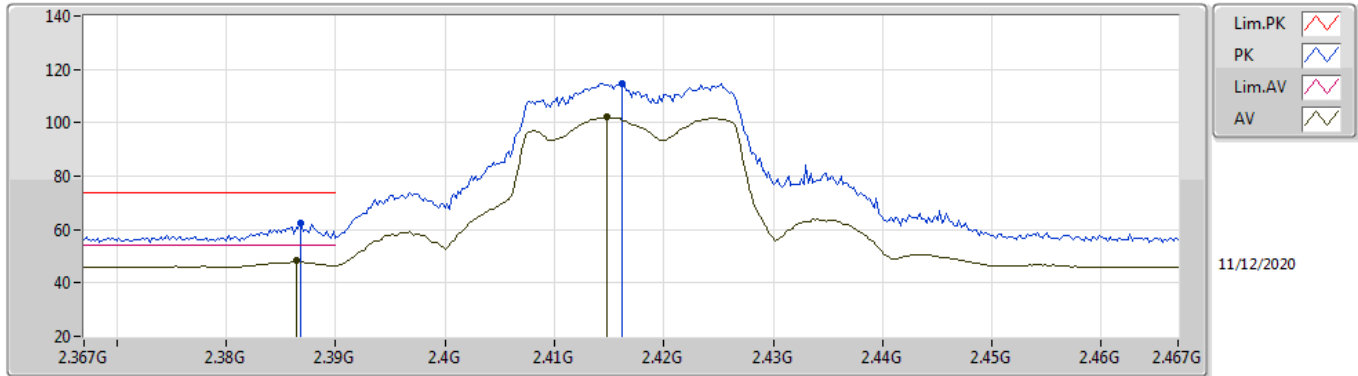
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.824G	28.82	54.00	-25.18	4.99	3	Horizontal	129	1.43	-	23.83	31.00	8.27	34.28
PK	4.8242G	42.90	74.00	-31.10	4.99	3	Horizontal	129	1.43	-	37.91	31.00	8.27	34.28

802.11ax HEW20_Nss1,(MCS0)_2TX

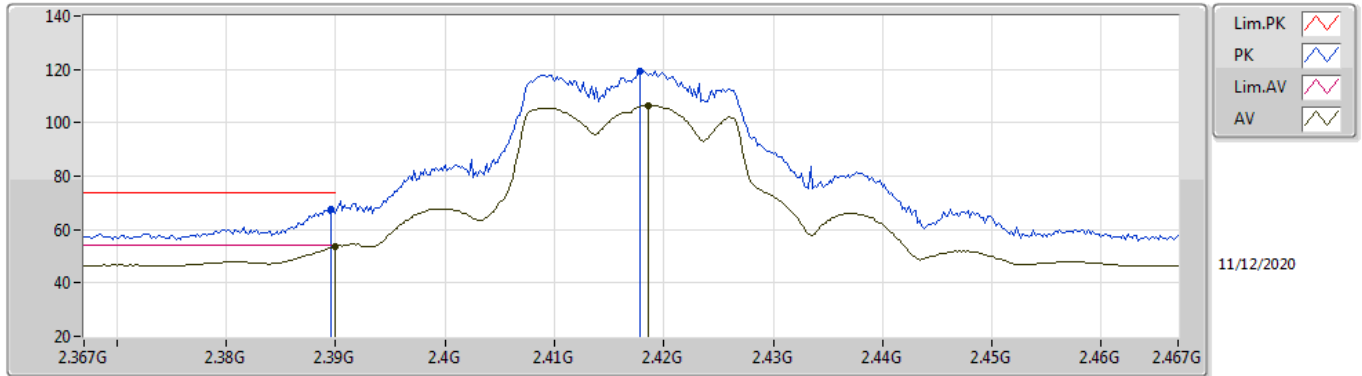
2417MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3864G	48.57	54.00	-5.43	33.58	3	Vertical	0	2.06	-	14.99	27.63	5.95	-
AV	2.4148G	102.02	Inf	-Inf	33.52	3	Vertical	0	2.06	-	68.50	27.54	5.98	-
PK	2.3868G	62.42	74.00	-11.58	33.58	3	Vertical	0	2.06	-	28.84	27.63	5.95	-
PK	2.4162G	114.86	Inf	-Inf	33.52	3	Vertical	0	2.06	-	81.34	27.54	5.98	-

802.11ax HEW20_Nss1,(MCS0)_2TX

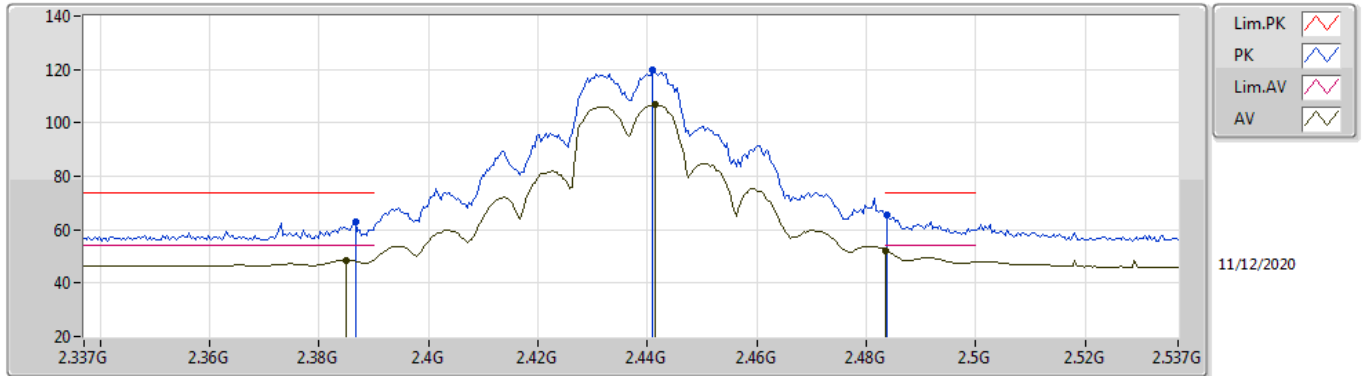
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	53.77	54.00	-0.23	33.57	3	Horizontal	131	2.39	-	20.20	27.62	5.95	-
AV	2.4186G	106.41	Inf	-Inf	33.51	3	Horizontal	131	2.39	-	72.90	27.53	5.98	-
PK	2.3896G	67.46	74.00	-6.54	33.57	3	Horizontal	131	2.39	-	33.89	27.62	5.95	-
PK	2.4178G	119.28	Inf	-Inf	33.51	3	Horizontal	131	2.39	-	85.77	27.53	5.98	-

802.11ax HEW20_Nss1,(MCS0)_2TX

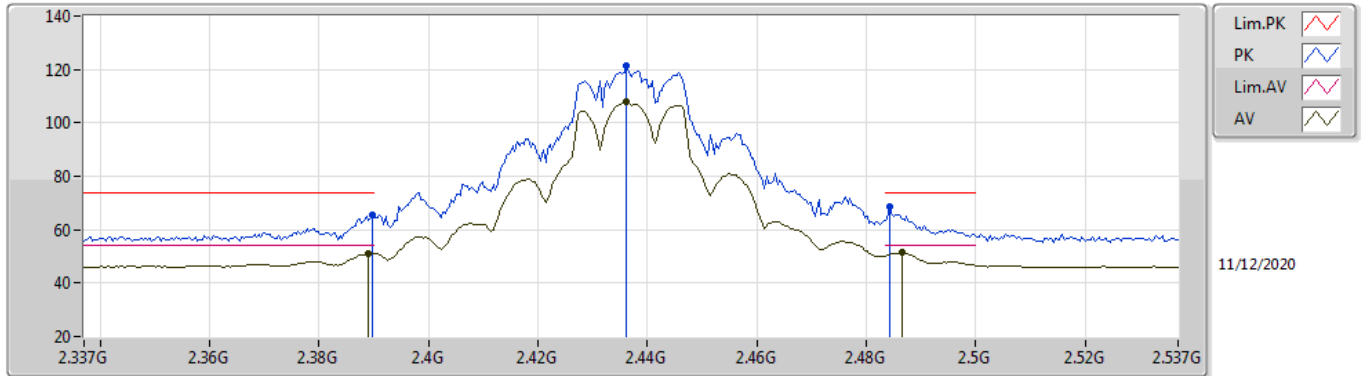
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.385G	48.61	54.00	-5.39	33.58	3	Vertical	151	2.86	-	15.03	27.63	5.95	-
AV	2.4414G	106.97	Inf	-Inf	33.44	3	Vertical	151	2.86	-	73.53	27.43	6.01	-
AV	2.4835G	52.31	54.00	-1.69	33.46	3	Vertical	151	2.86	-	18.85	27.40	6.06	-
PK	2.3866G	62.96	74.00	-11.04	33.58	3	Vertical	151	2.86	-	29.38	27.63	5.95	-
PK	2.441G	119.82	Inf	-Inf	33.45	3	Vertical	151	2.86	-	86.37	27.44	6.01	-
PK	2.4838G	65.47	74.00	-8.53	33.46	3	Vertical	151	2.86	-	32.01	27.40	6.06	-

802.11ax HEW20_Nss1,(MCS0)_2TX

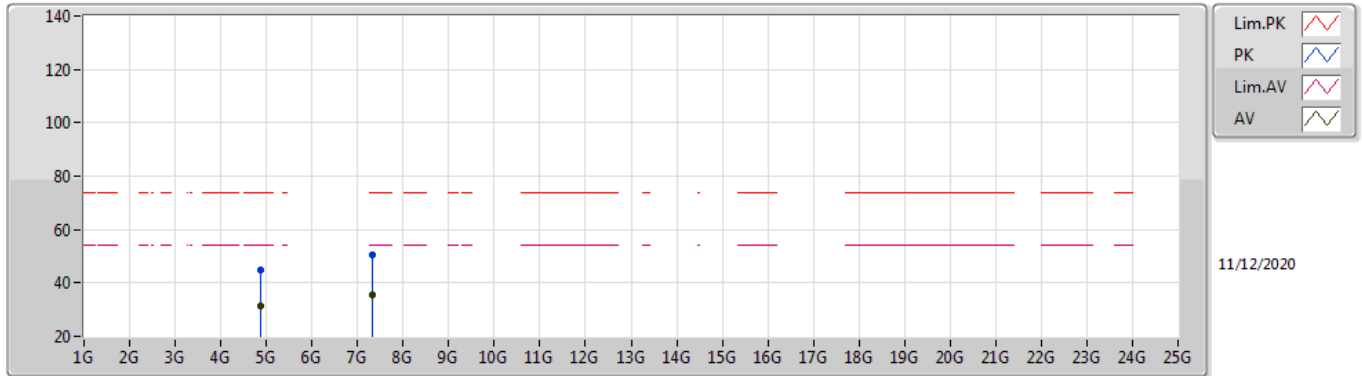
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.389G	51.10	54.00	-2.90	33.57	3	Horizontal	42	1.79	-	17.53	27.62	5.95	-
AV	2.4362G	107.69	Inf	-Inf	33.46	3	Horizontal	42	1.79	-	74.23	27.46	6.00	-
AV	2.4866G	51.36	54.00	-2.64	33.46	3	Horizontal	42	1.79	-	17.90	27.40	6.06	-
PK	2.3898G	65.50	74.00	-8.50	33.57	3	Horizontal	42	1.79	-	31.93	27.62	5.95	-
PK	2.4362G	121.33	Inf	-Inf	33.46	3	Horizontal	42	1.79	-	87.87	27.46	6.00	-
PK	2.4842G	68.42	74.00	-5.58	33.46	3	Horizontal	42	1.79	-	34.96	27.40	6.06	-

802.11ax HEW20_Nss1,(MCS0)_2TX

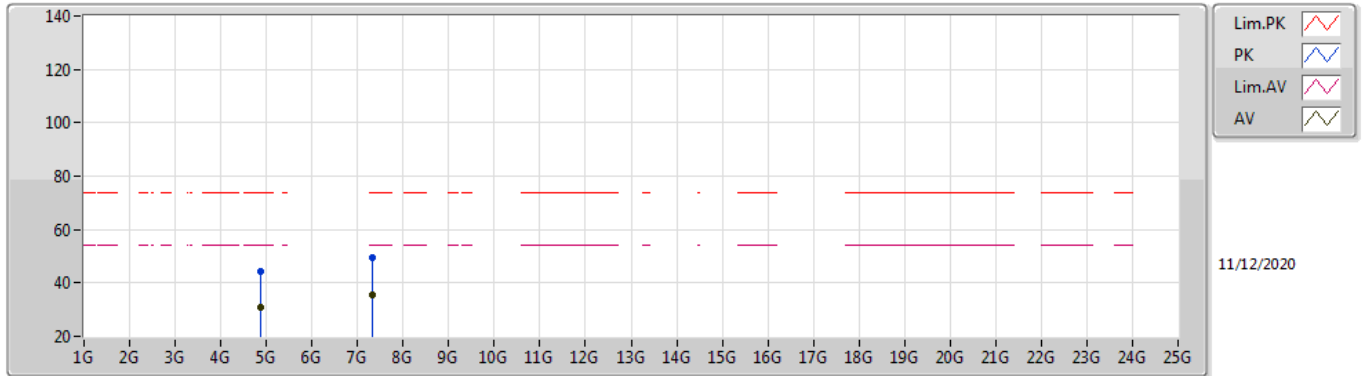
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87305G	31.47	54.00	-22.53	5.09	3	Vertical	74	1.31	-	26.38	31.05	8.30	34.26
AV	7.31119G	35.42	54.00	-18.58	11.82	3	Vertical	17	1.34	-	23.60	36.36	10.03	34.57
PK	4.87336G	44.92	74.00	-29.08	5.09	3	Vertical	74	1.31	-	39.83	31.05	8.30	34.26
PK	7.31169G	50.44	74.00	-23.56	11.81	3	Vertical	17	1.34	-	38.63	36.35	10.03	34.57

802.11ax HEW20_Nss1,(MCS0)_2TX

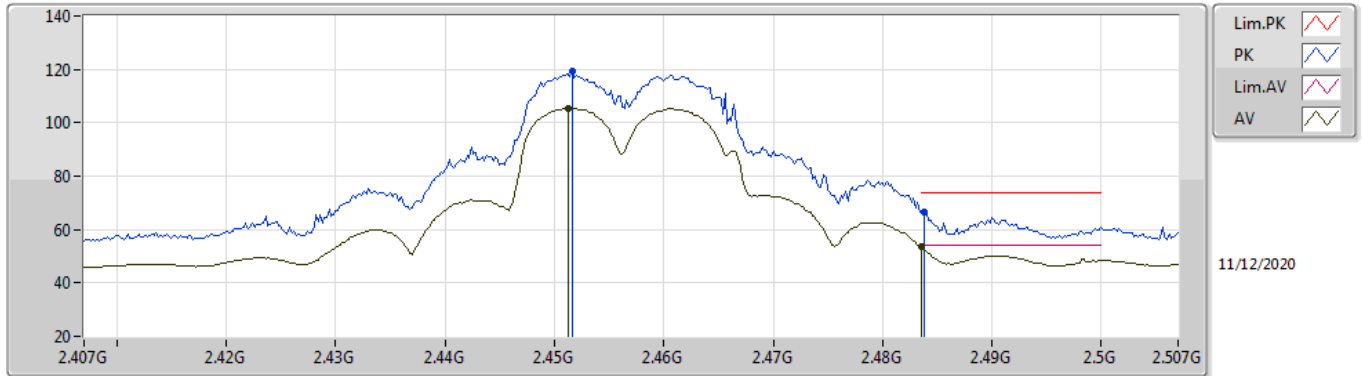
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87395G	30.85	54.00	-23.15	5.09	3	Horizontal	29	1.37	-	25.76	31.05	8.30	34.26
AV	7.31082G	35.44	54.00	-18.56	11.82	3	Horizontal	347	2.14	-	23.62	36.36	10.03	34.57
PK	4.87398G	44.38	74.00	-29.62	5.09	3	Horizontal	29	1.37	-	39.29	31.05	8.30	34.26
PK	7.31125G	49.44	74.00	-24.56	11.82	3	Horizontal	347	2.14	-	37.62	36.36	10.03	34.57

802.11ax HEW20_Nss1,(MCS0)_2TX

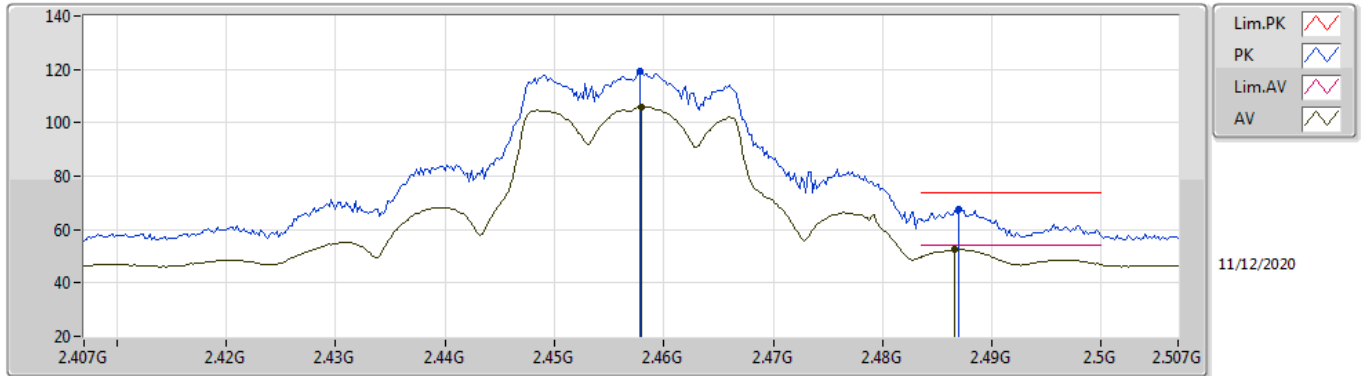
2457MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4512G	105.51	Inf	-Inf	33.42	3	Vertical	149	2.90	-	72.09	27.40	6.02	-
AV	2.4835G	53.49	54.00	-0.51	33.46	3	Vertical	149	2.90	-	20.03	27.40	6.06	-
PK	2.4516G	119.08	Inf	-Inf	33.42	3	Vertical	149	2.90	-	85.66	27.40	6.02	-
PK	2.4838G	66.78	74.00	-7.22	33.46	3	Vertical	149	2.90	-	33.32	27.40	6.06	-

802.11ax HEW20_Nss1,(MCS0)_2TX

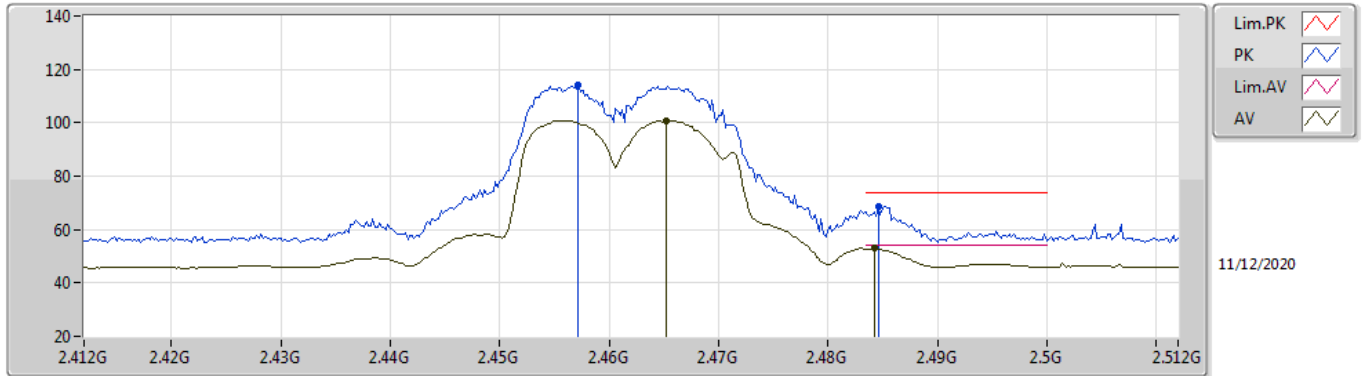
2457MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.458G	105.91	Inf	-Inf	33.43	3	Horizontal	133	2.09	-	72.48	27.40	6.03	-
AV	2.4866G	52.54	54.00	-1.46	33.46	3	Horizontal	133	2.09	-	19.08	27.40	6.06	-
PK	2.4578G	119.26	Inf	-Inf	33.43	3	Horizontal	133	2.09	-	85.83	27.40	6.03	-
PK	2.487G	67.57	74.00	-6.43	33.46	3	Horizontal	133	2.09	-	34.11	27.40	6.06	-

802.11ax HEW20_Nss1,(MCS0)_2TX

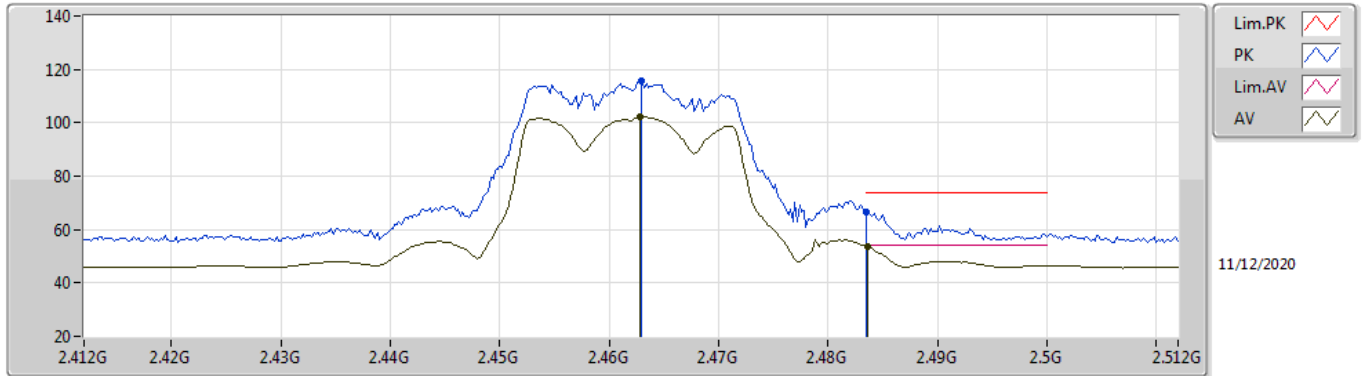
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4652G	100.87	Inf	-Inf	33.44	3	Vertical	140	2.91	-	67.43	27.40	6.04	-
AV	2.4842G	52.90	54.00	-1.10	33.46	3	Vertical	140	2.91	-	19.44	27.40	6.06	-
PK	2.4572G	113.97	Inf	-Inf	33.43	3	Vertical	140	2.91	-	80.54	27.40	6.03	-
PK	2.4846G	68.57	74.00	-5.43	33.46	3	Vertical	140	2.91	-	35.11	27.40	6.06	-

802.11ax HEW20_Nss1,(MCS0)_2TX

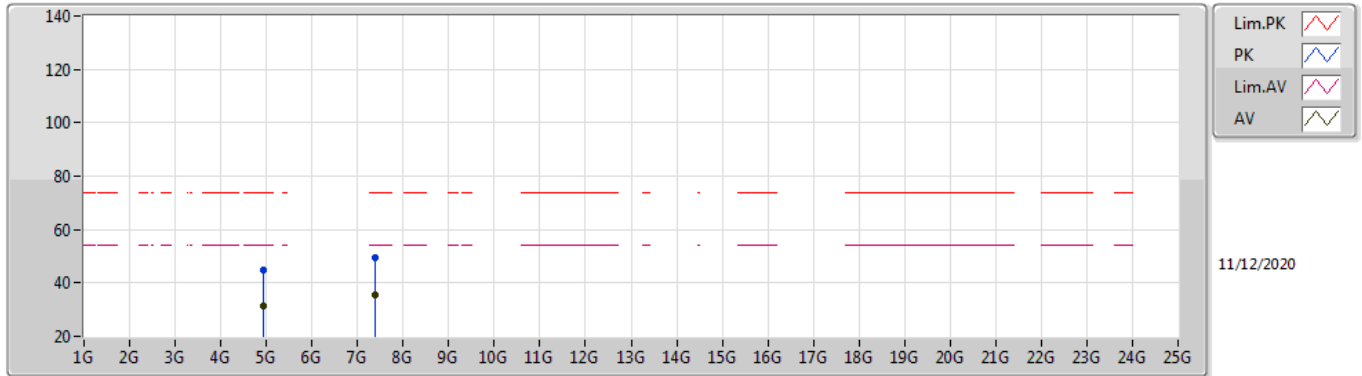
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4628G	102.20	Inf	-Inf	33.44	3	Horizontal	132	2.12	-	68.76	27.40	6.04	-
AV	2.4836G	53.83	54.00	-0.17	33.46	3	Horizontal	132	2.12	-	20.37	27.40	6.06	-
PK	2.463G	115.80	Inf	-Inf	33.44	3	Horizontal	132	2.12	-	82.36	27.40	6.04	-
PK	2.4835G	66.37	74.00	-7.63	33.46	3	Horizontal	132	2.12	-	32.91	27.40	6.06	-

802.11ax HEW20_Nss1,(MCS0)_2TX

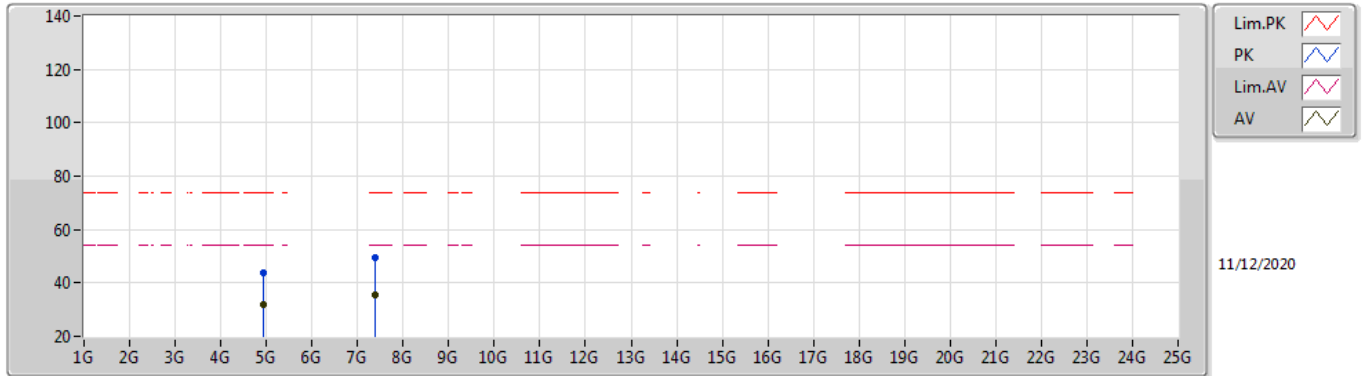
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92393G	31.13	54.00	-22.87	5.18	3	Vertical	71	0.99	-	25.95	31.10	8.33	34.25
AV	7.3858G	35.47	54.00	-18.53	11.60	3	Vertical	214	1.38	-	23.87	36.13	10.05	34.58
PK	4.92436G	44.88	74.00	-29.12	5.18	3	Vertical	71	0.99	-	39.70	31.10	8.33	34.25
PK	7.38571G	49.37	74.00	-24.63	11.60	3	Vertical	214	1.38	-	37.77	36.13	10.05	34.58

802.11ax HEW20_Nss1,(MCS0)_2TX

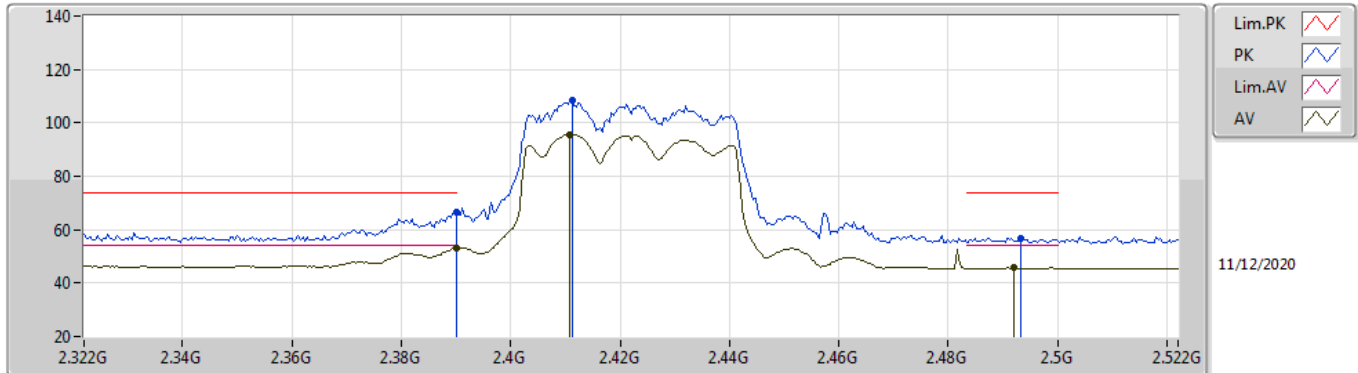
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.924G	31.77	54.00	-22.23	5.18	3	Horizontal	23	1.42	-	26.59	31.10	8.33	34.25
AV	7.38548G	35.56	54.00	-18.44	11.60	3	Horizontal	126	1.86	-	23.96	36.13	10.05	34.58
PK	4.92366G	43.95	74.00	-30.05	5.17	3	Horizontal	23	1.42	-	38.78	31.09	8.33	34.25
PK	7.38538G	49.26	74.00	-24.74	11.60	3	Horizontal	126	1.86	-	37.66	36.13	10.05	34.58

802.11ax HEW40_Nss1,(MCS0)_2TX

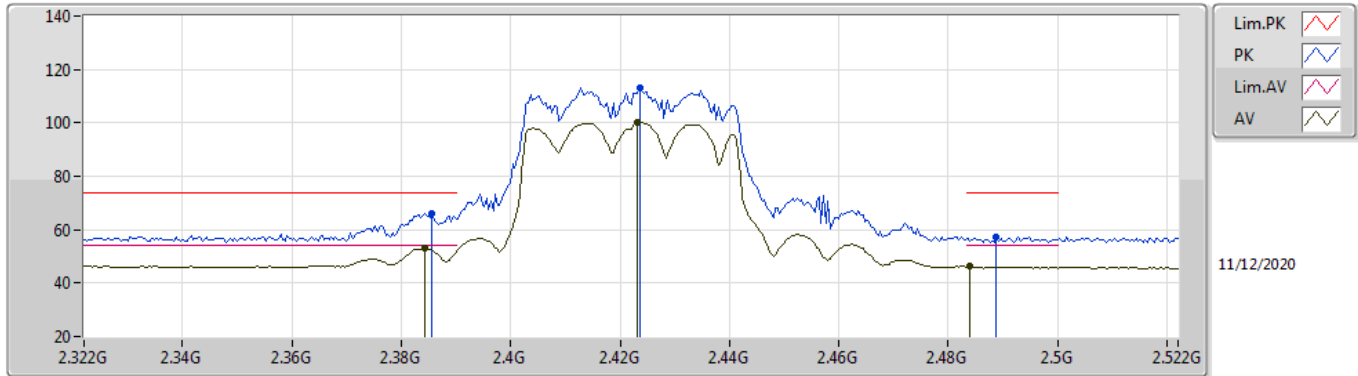
2422MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	53.18	54.00	-0.82	33.57	3	Vertical	323	1.48	-	19.61	27.62	5.95	-
AV	2.4108G	95.74	Inf	-Inf	33.53	3	Vertical	323	1.48	-	62.21	27.56	5.97	-
AV	2.492G	45.72	54.00	-8.28	33.47	3	Vertical	323	1.48	-	12.25	27.40	6.07	-
PK	2.39G	66.80	74.00	-7.20	33.57	3	Vertical	323	1.48	-	33.23	27.62	5.95	-
PK	2.4112G	108.25	Inf	-Inf	33.53	3	Vertical	323	1.48	-	74.72	27.56	5.97	-
PK	2.4932G	56.95	74.00	-17.05	33.47	3	Vertical	323	1.48	-	23.48	27.40	6.07	-

802.11ax HEW40_Nss1,(MCS0)_2TX

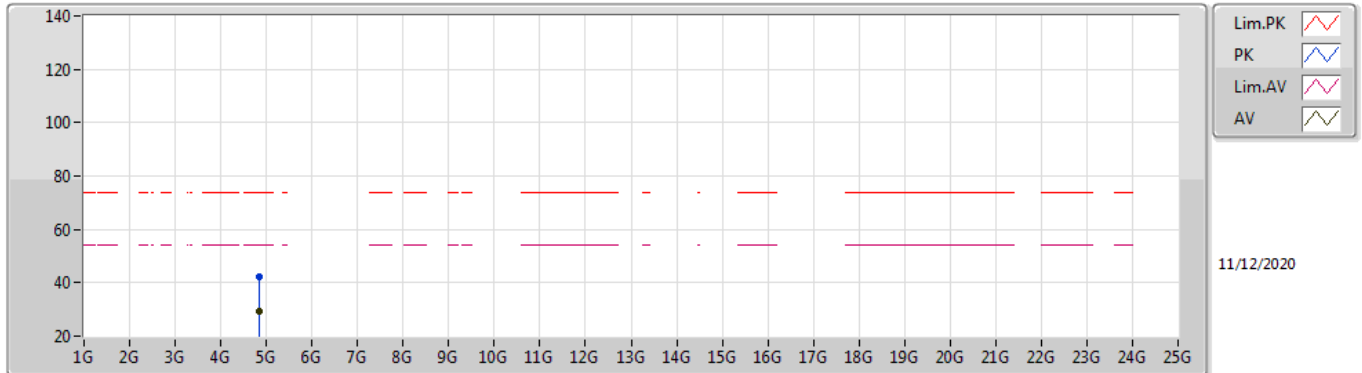
2422MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3844G	52.92	54.00	-1.08	33.58	3	Horizontal	130	2.41	-	19.34	27.63	5.95	-
AV	2.4232G	100.31	Inf	-Inf	33.50	3	Horizontal	130	2.41	-	66.81	27.51	5.99	-
AV	2.484G	46.19	54.00	-7.81	33.46	3	Horizontal	130	2.41	-	12.73	27.40	6.06	-
PK	2.3856G	66.28	74.00	-7.72	33.58	3	Horizontal	130	2.41	-	32.70	27.63	5.95	-
PK	2.4236G	113.10	Inf	-Inf	33.50	3	Horizontal	130	2.41	-	79.60	27.51	5.99	-
PK	2.4888G	57.22	74.00	-16.78	33.47	3	Horizontal	130	2.41	-	23.75	27.40	6.07	-

802.11ax HEW40_Nss1,(MCS0)_2TX

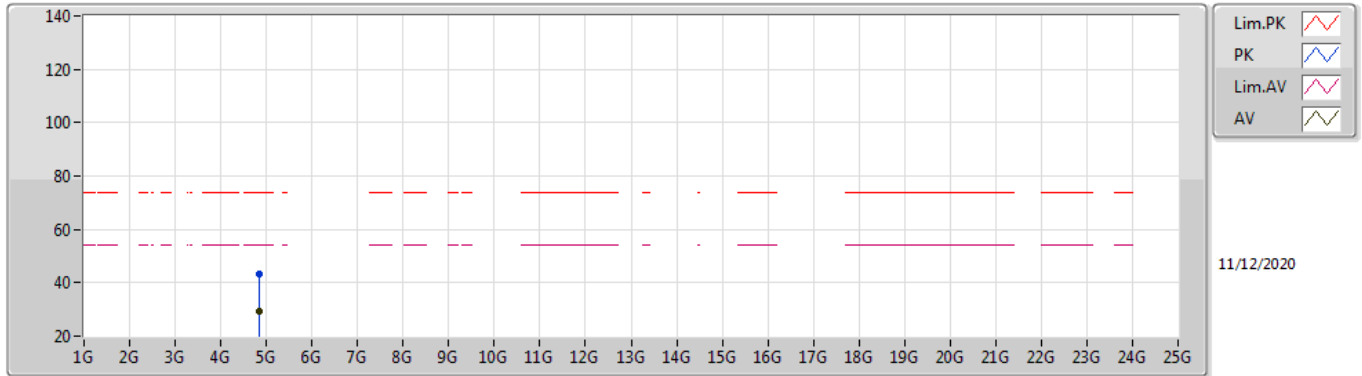
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.84377G	29.12	54.00	-24.88	5.09	3	Vertical	140	1.48	-	24.03	31.08	8.28	34.27
PK	4.84328G	42.21	74.00	-31.79	5.08	3	Vertical	140	1.48	-	37.13	31.07	8.28	34.27

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.84388G	29.32	54.00	-24.68	5.09	3	Horizontal	238	1.62	-	24.23	31.08	8.28	34.27
PK	4.8443G	43.03	74.00	-30.97	5.09	3	Horizontal	238	1.62	-	37.94	31.08	8.28	34.27