



FCC RADIO TEST REPORT

FCC ID : NKRRXAM-JD1
Equipment : 802.11 abgn/ac/ax Access Point
Brand Name : WNC
Model Name : RXAM-JD1
Applicant : Wistron NeWeb Corporation
20 Park Avenue II, Hsinchu Science Park, Hsinchu 308 Taiwan
Manufacturer : Wistron NeWeb Corporation
20 Park Avenue II, Hsinchu Science Park, Hsinchu 308 Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on May 26, 2020, and testing was started from May 26, 2020 and completed on Jul. 08, 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: Sam Chen

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

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_10 Ver1.2

Page Number : 3 of 33
Issued Date : Jul. 30, 2020
Report Version : 01



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:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Cindy Peng



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]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	4TX
2.4-2.4835GHz	802.11g	20	4TX
2.4-2.4835GHz	802.11n HT20	20	4TX
2.4-2.4835GHz	802.11n HT20-BF	20	4TX
2.4-2.4835GHz	VHT20	20	4TX
2.4-2.4835GHz	VHT20-BF	20	4TX
2.4-2.4835GHz	802.11ax HEW20	20	4TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	4TX
2.4-2.4835GHz	802.11n HT40	40	4TX
2.4-2.4835GHz	802.11n HT40-BF	40	4TX
2.4-2.4835GHz	VHT40	40	4TX
2.4-2.4835GHz	VHT40-BF	40	4TX
2.4-2.4835GHz	802.11ax HEW40	40	4TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	4TX

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.	Port		Brand	Model Name	Type	Connector	Gain (dBi)	
	WLAN 2.4GHz	WLAN 5GHz					WLAN 2.4GHz	WLAN 5GHz
1	2	3	WNC	95XKAM15.G20	PIFA	I-PEX	3.0	6.9
2	4	1	WNC	95XKAM15.G19	PIFA	I-PEX	3.0	6.2
3	3	2	WNC	95XKAM15.G18	PIFA	I-PEX	2.9	4.7
4	1	4	WNC	95XKAM15.G21	PIFA	I-PEX	4.4	6.7
Ant.	Port		Brand	Model Name	Type	Connector	Gain (dBi)	
	Bluetooth							
5	1		WNC	95XKAM15.G22	PIFA	I-PEX	6.8	

Note1: The above information was declared by manufacturer.

Note2: The EUT has five antennas.

For 2.4GHz WLAN function, 802.11b/g/n/VHT/ax mode (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For 5GHz WLAN function, 802.11a/n/ac/ax mode (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For Bluetooth function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.



1.1.3 Mode Test Duty Cycle

For non-beamforming function:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW20	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

For beamforming function:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20-BF	0.97	0.13	4.365m	300
802.11ax HEW40-BF	0.947	0.24	4.301m	300

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	For 802.11n/ax/VHT in 2.4GHz and 802.11n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	DutApiMimoApApp V0.0.1.39			

Note: The above information was declared by manufacturer.



1.2 Applicable 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.

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC 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
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Serway Li	25.4~26.6°C / 54~57%	Jun. 13, 2020~Jun. 23, 2020
Radiated Below 1GHz	03CH04-CB	Eason Chen	23.7~25.6°C / 63~70%	May 26, 2020
Radiated Above 1GHz (Co-location)	03CH05-CB	Eason Chen	24.8~25.9°C / 61~64%	Jul. 08, 2020
Radiated Above 1GHz (Other)	03CH01-CB	Eason Chen	24.8~26°C / 54~57%	Jun. 11, 2020~Jun. 19, 2020
AC Conduction	CO01-CB	Wei Li	24~25°C / 60~63%	May 27, 2020

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

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)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For non-beamforming function:

Mode	Power Setting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	20
2437MHz	20
2462MHz	20
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	16
2417MHz	20
2437MHz	20
2457MHz	17
2462MHz	16
802.11ax HEW20_Nss1,(MCS0)_4TX	-
2412MHz	15
2417MHz	19
2437MHz	20
2457MHz	16
2462MHz	15
802.11ax HEW40_Nss1,(MCS0)_4TX	-
2422MHz	14
2437MHz	15
2452MHz	14



For beamforming function:

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
2412MHz	13
2417MHz	16
2437MHz	20
2457MHz	14
2462MHz	13
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
2422MHz	09
2427MHz	11
2437MHz	13
2447MHz	11
2452MHz	08

Note:

- ♦ There are two modes of EUT for 802.11n/ax/VHT in 2.4GHz and 802.11n/ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode. Both modes have been tested and recorded in this test report.

2.2 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	Normal Link (WLAN), CTX (Bluetooth)
1	WLAN 2.4GHz + WLAN 5GHz (Normal Link) + Bluetooth (CTX)

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	Normal Link (WLAN), CTX (Bluetooth)
1	WLAN 2.4GHz + WLAN 5GHz (Normal Link) + Bluetooth (CTX) - EUT in Z axis
2	WLAN 2.4GHz + WLAN 5GHz (Normal Link) + Bluetooth (CTX) - EUT in Y axis
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
1	EUT in Z axis
2	EUT in Y axis
Mode 2 has been evaluated to be the worst case after evaluating. Consequently, measurement will follow this same test mode.	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
The EUT was performed at Y axis and Z axis position "EUT in Y axis" generated the worst test result for Emissions in Restricted Frequency Bands Above 1GHz test, thus the measurement for Radiated Emission Co-location test will follow this same test configuration.	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA052068 for Co-location RF Exposure Evaluation.	

Note: The PoE are for measurement only, would not be marketed.

PoE information as below:

Equipment	Brand Name	Model Name	FCC ID
PoE	Microsemi	PD-9001GR/AT/AC	N/A
PoE	PHOHING	POEA30U-1ATE	N/A

2.3 EUT Operation during Test

For CTX Mode:

For non-beamforming function:

The EUT was programmed to be in continuously transmitting mode.

For beamforming function:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under ttermpro.exe.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Bracket*1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Microsemi	PD-9001GR/AT/AC	N/A
B	ETH0/PoE PC	DELL	T3400	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	ETH1/PoE PC	DELL	T3400	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Microsemi	PD-9001GR/AT/AC	N/A
B	PC	DELL	T3400	N/A
C	2.4G NB	DELL	E4300	N/A
D	5G NB	DELL	E4300	N/A

For Radiated (above 1GHz):

For non-beamforming function:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	PHOHING	POEA30U-1ATE	N/A
B	NB	DELL	E4300	N/A

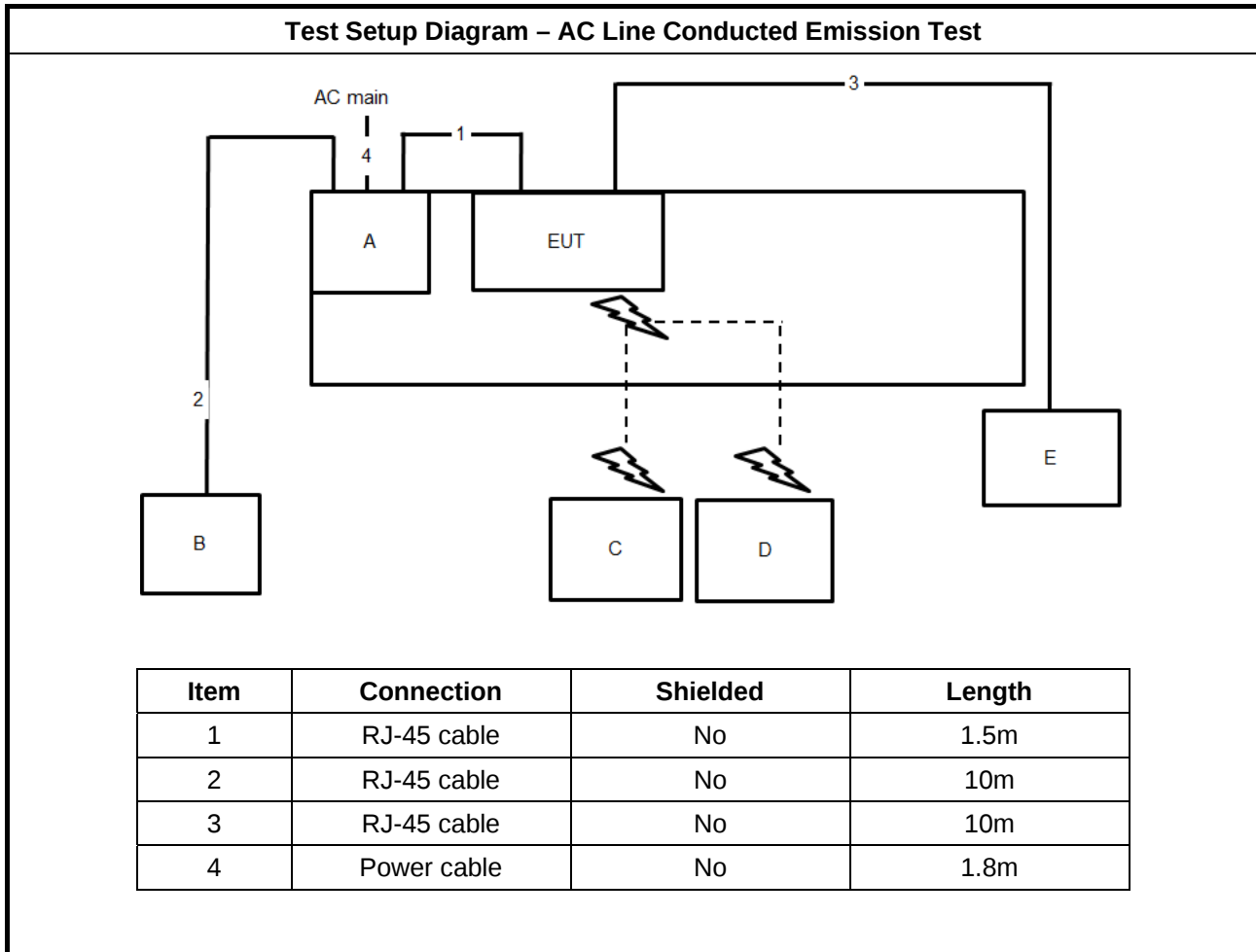
For beamforming function:

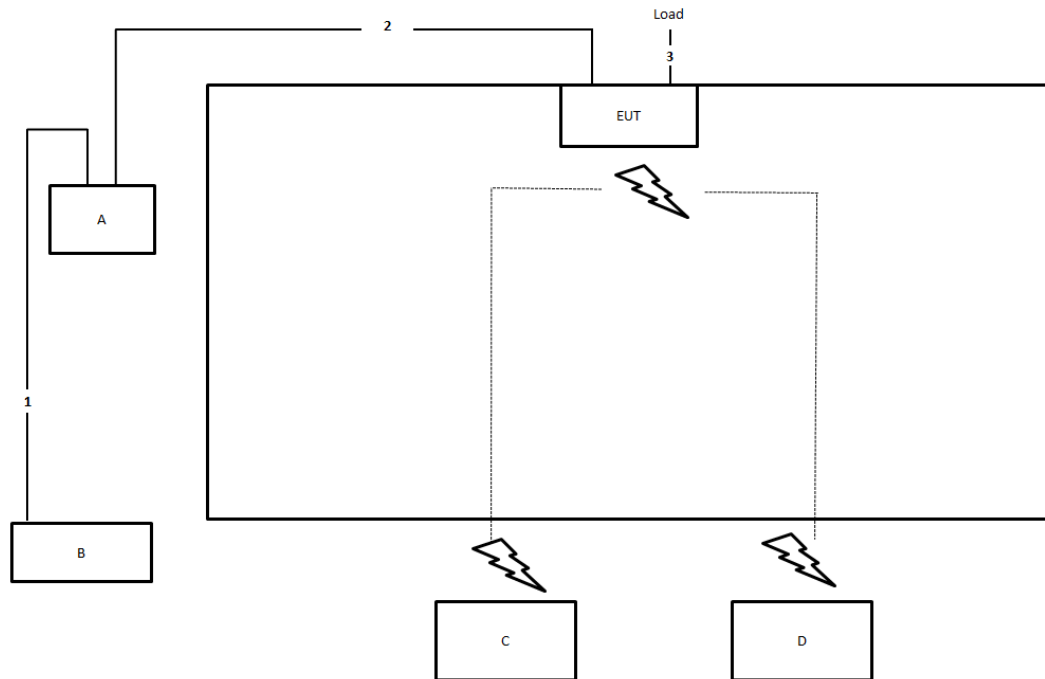
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	PHOHING	POEA30U-1ATE	N/A
B	NB	DELL	E4300	N/A
C	RX Device	WNC	RXAM-JD1	N/A
D	NB	DELL	E4300	N/A
E	PoE	PHOHING	POEA30U-1ATE	N/A

**For RF Conducted:**

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE	Microsemi	PD-9001GR/AT/AC	N/A

2.6 Test Setup Diagram

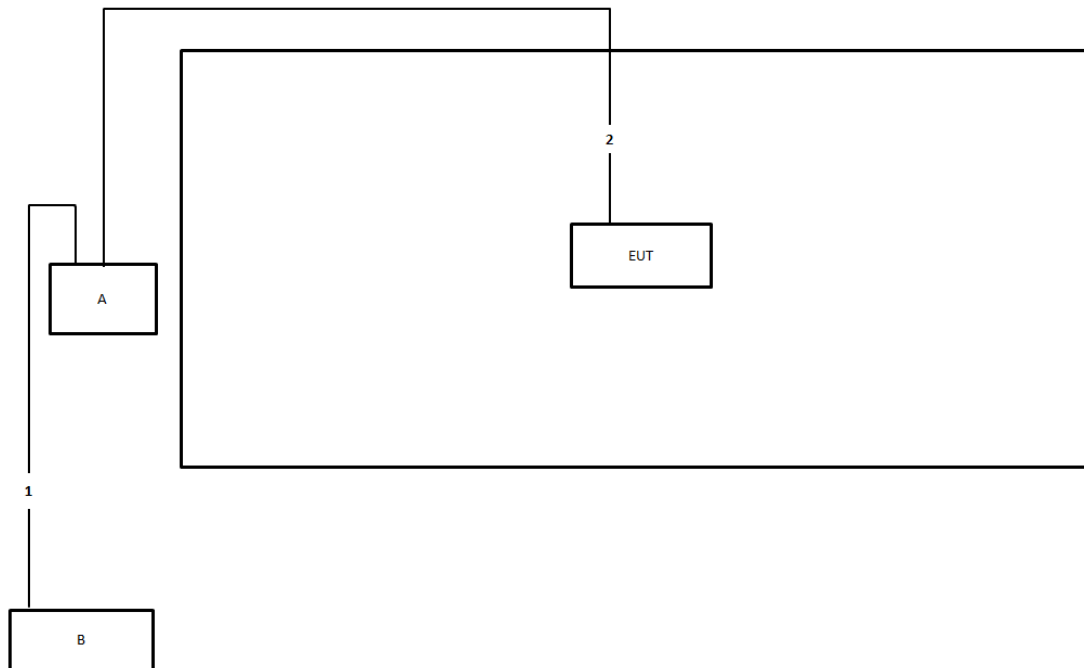


Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz

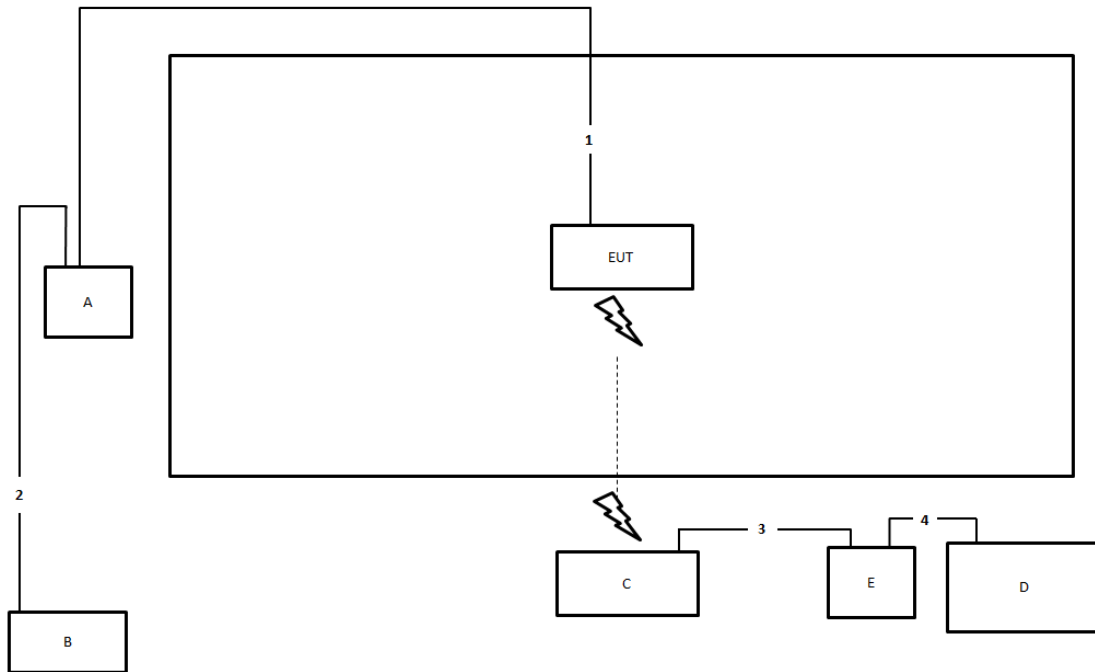
For non-beamforming function:



Item	Connection	Shielded	Length
1	RJ-45 cable	No	1.5m
2	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz

For beamforming function:



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	1.5m
4	RJ-45 cable	No	1.5m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

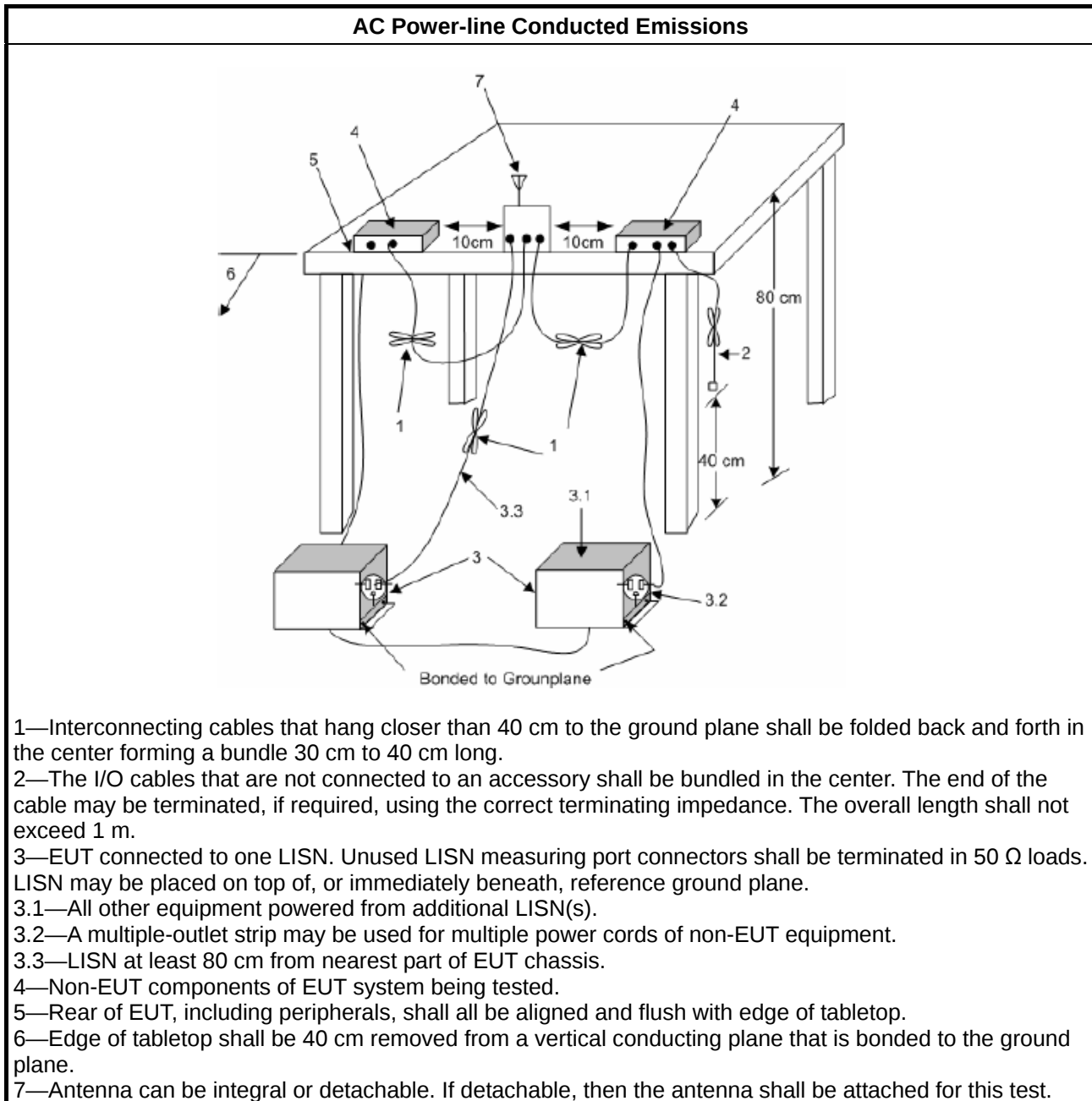
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level
- Margin = - Limit + (Read Level + LISN Factor + Cable Loss)

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.

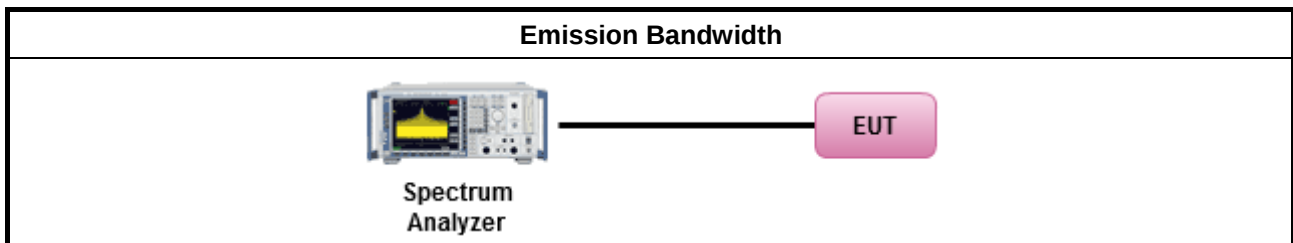
3.2.2 Measuring Instruments

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 FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐	Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 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
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

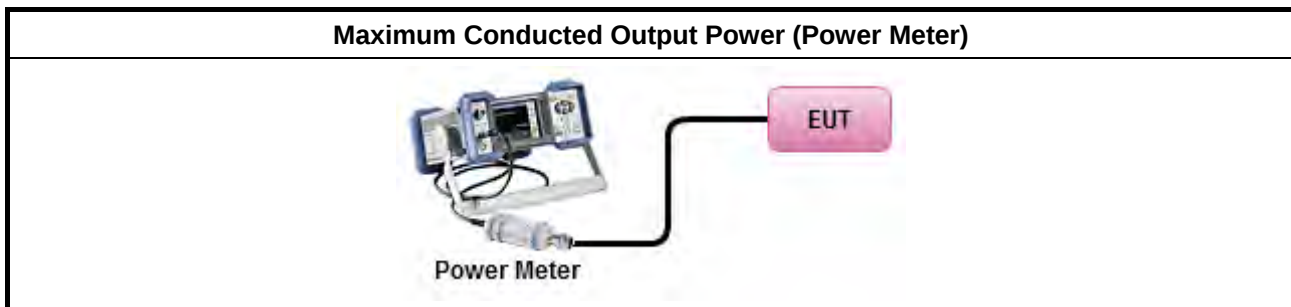
3.3.2 Measuring Instruments

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 FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter). 若
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (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) ≤ 8 dBm/3kHz

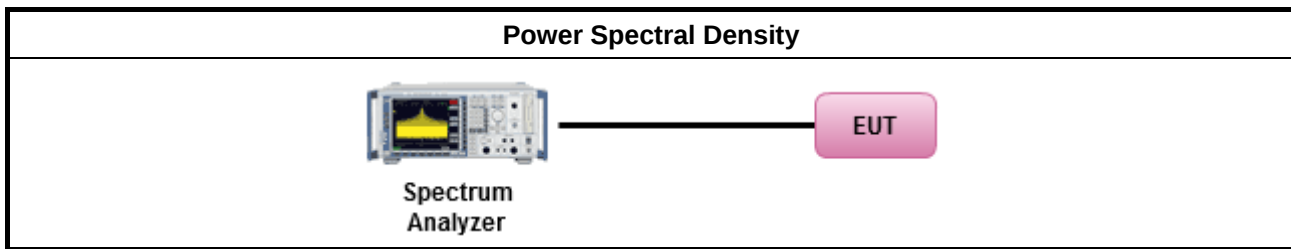
3.4.2 Measuring Instruments

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 FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

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

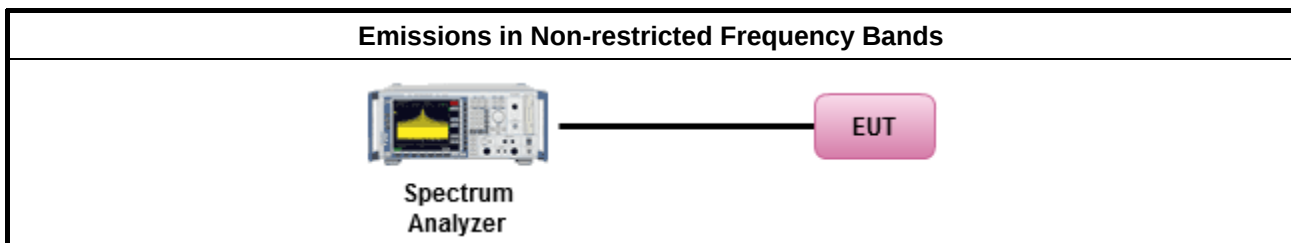
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor (if applicable) = Level.

3.5.6 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.

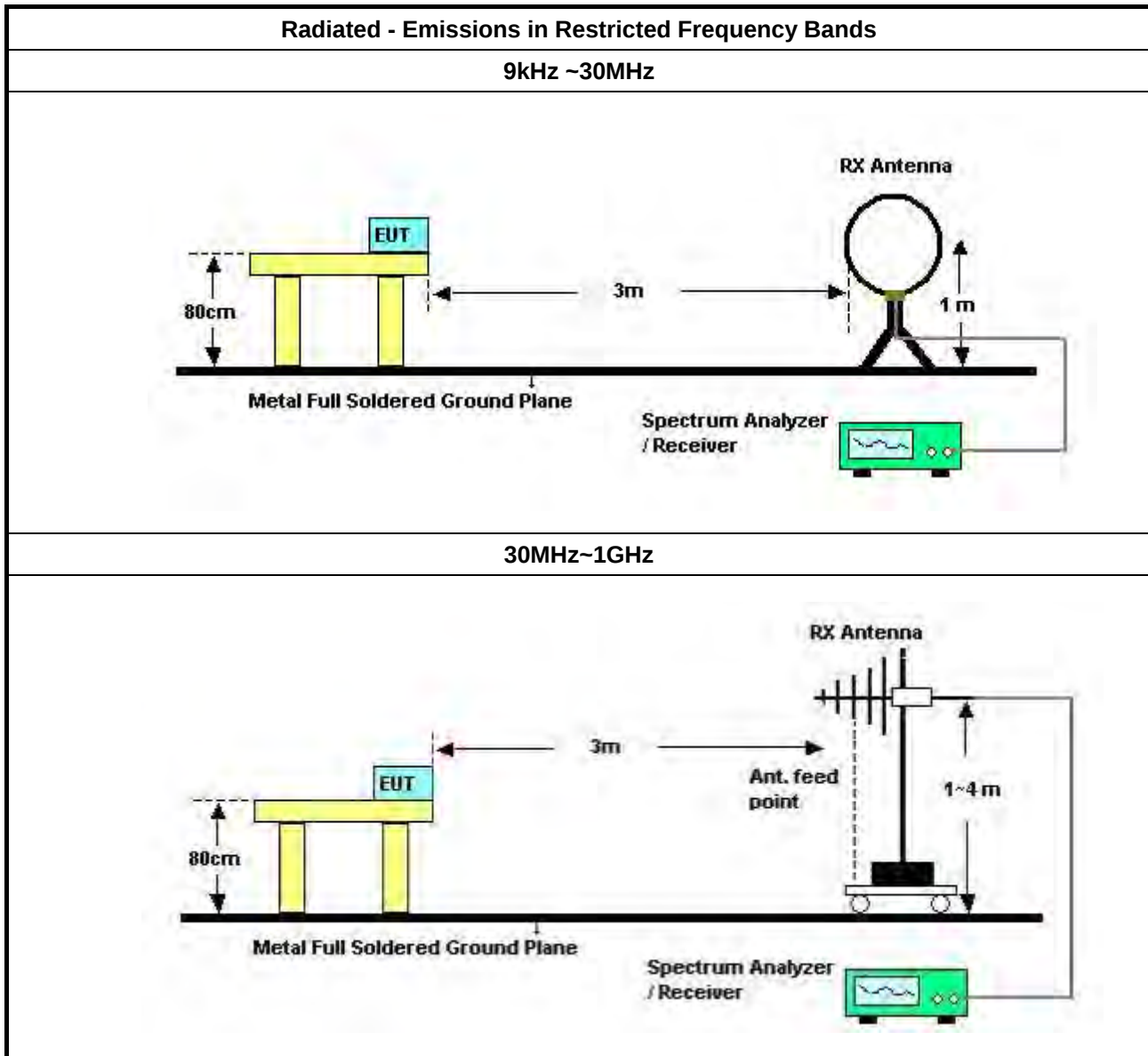
3.6.2 Measuring Instruments

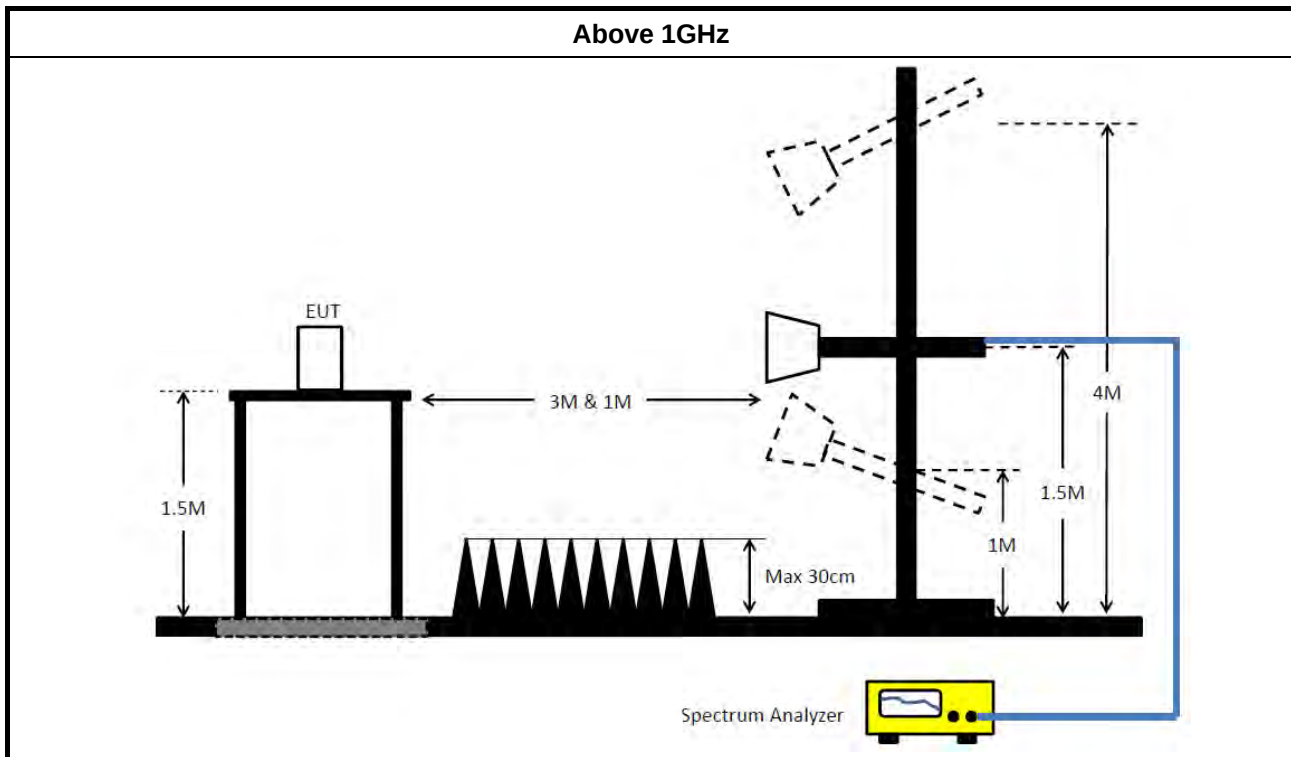
Refer a test equipment and calibration data table in this test report.

**3.6.3 Test Procedures**

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 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 FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, 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 FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor (if applicable) = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 25, 2019	Dec. 24, 2020	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 31, 2020	Jan. 30, 2021	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 20, 2020	May 19, 2021	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	22021&AT-N0 607	30MHz ~ 1GHz	Oct. 12, 2019	Oct. 11, 2020	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	310N	187291	0.1MHz ~ 1GHz	Mar. 19, 2020	Mar. 18, 2021	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Dec. 18, 2019	Dec. 17, 2020	Radiation (03CH04-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+22	30MHz ~ 1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH04-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 04, 2019	Nov. 03, 2020	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 11, 2020	Jun. 10, 2021	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2020	Jan. 07, 2021	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Apr. 16, 2020	Apr. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1291	1GHz~18GHz	Oct. 05, 2019	Oct. 04, 2020	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Apr. 15, 2020	Apr. 14, 2021	Radiation (03CH05-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 19, 2020	Jun. 18, 2021	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Feb. 01, 2020	Jan. 31, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 05, 2020	May 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~ 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~ 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz ~ 26.5 GHz	Nov. 18, 2019	Nov. 17, 2020	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.



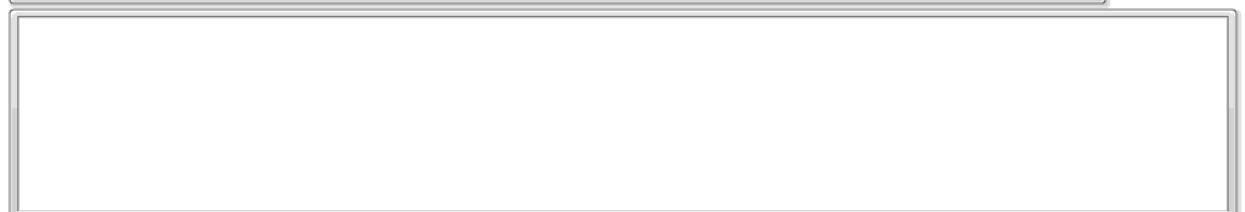
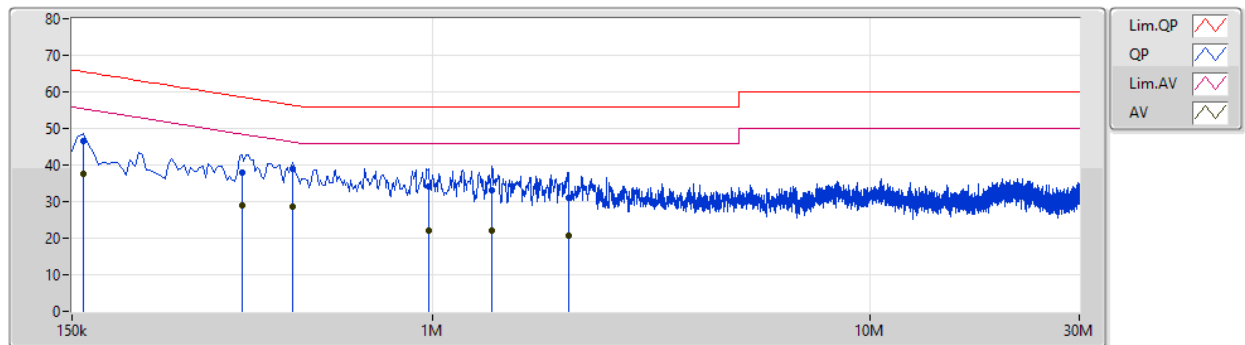
AC Power Port Conducted Emission Result

Appendix A

Summary

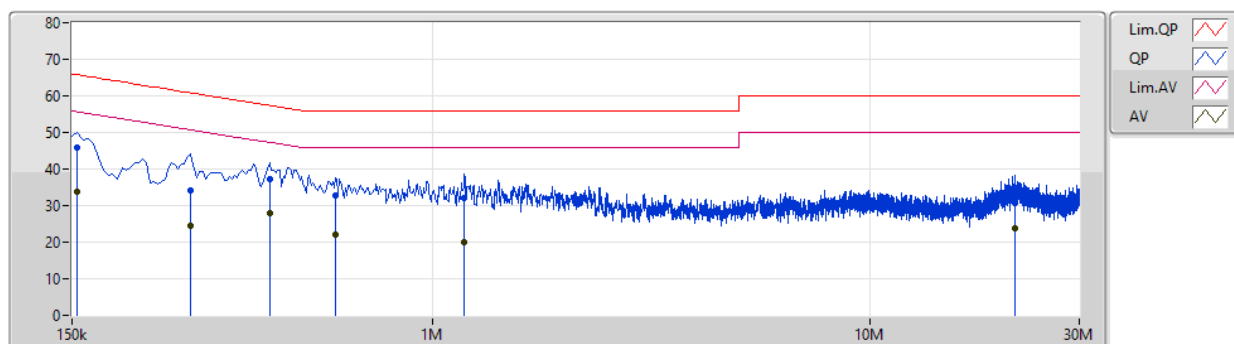
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition
Mode 1	Pass	QP	478.5k	39.01	56.36	-17.35	9.88	Line

27/05/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	AF (dB)	CL (dB)	AT (dB)			
QP	159k	46.43	65.52	-19.09	9.87	Line	-	36.56	0.05	0.03	9.79			
AV	159k	37.64	55.52	-17.88	9.87	Line	-	27.77	0.05	0.03	9.79			
QP	366k	37.96	58.60	-20.64	9.88	Line	-	28.08	0.04	0.03	9.81			
AV	366k	28.82	48.60	-19.78	9.88	Line	-	18.94	0.04	0.03	9.81			
QP	478.5k	39.01	56.36	-17.35	9.88	Line	"Worst"	29.13	0.04	0.03	9.81			
AV	478.5k	28.67	46.36	-17.69	9.88	Line	-	18.79	0.04	0.03	9.81			
QP	982.5k	33.97	56.00	-22.03	9.91	Line	-	24.06	0.05	0.04	9.82			
AV	982.5k	21.99	46.00	-24.01	9.91	Line	-	12.08	0.05	0.04	9.82			
QP	1.365M	33.17	56.00	-22.83	9.92	Line	-	23.25	0.05	0.05	9.82			
AV	1.365M	22.05	46.00	-23.95	9.92	Line	-	12.13	0.05	0.05	9.82			
QP	2.04M	31.06	56.00	-24.94	9.96	Line	-	21.10	0.06	0.07	9.83			
AV	2.04M	20.67	46.00	-25.33	9.96	Line	-	10.71	0.06	0.07	9.83			

27/05/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	AF (dB)	CL (dB)	AT (dB)			
QP	154.5k	45.91	65.75	-19.84	9.86	Neutral	-	36.05	0.04	0.03	9.79			
AV	154.5k	33.74	55.75	-22.01	9.86	Neutral	-	23.88	0.04	0.03	9.79			
QP	280.5k	34.14	60.80	-26.66	9.87	Neutral	-	24.27	0.04	0.03	9.80			
AV	280.5k	24.40	50.80	-26.40	9.87	Neutral	-	14.53	0.04	0.03	9.80			
QP	424.5k	37.22	57.36	-20.14	9.88	Neutral	-	27.34	0.04	0.03	9.81			
AV	424.5k	27.77	47.36	-19.59	9.88	Neutral	"Worst"	17.89	0.04	0.03	9.81			
QP	600k	32.80	56.00	-23.20	9.89	Neutral	-	22.91	0.05	0.03	9.81			
AV	600k	22.07	46.00	-23.93	9.89	Neutral	-	12.18	0.05	0.03	9.81			
QP	1.181M	32.10	56.00	-23.90	9.93	Neutral	-	22.17	0.06	0.05	9.82			
AV	1.181M	19.84	46.00	-26.16	9.93	Neutral	-	9.91	0.06	0.05	9.82			
QP	21.422M	30.53	60.00	-29.47	10.56	Neutral	-	19.97	0.23	0.33	10.00			
AV	21.422M	23.78	50.00	-26.22	10.56	Neutral	-	13.22	0.23	0.33	10.00			

For non-beamforming function:

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)_4TX	10.075M	13.643M	13M6G1D	10M	13.543M
802.11g_Nss1,(6Mbps)_4TX	16.55M	16.992M	17M0D1D	16.475M	16.542M
802.11ax HEW20_Nss1,(MCS0)_4TX	19.05M	19.04M	19M0D1D	18.775M	18.841M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.9M	37.581M	37M6D1D	36.55M	37.481M

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;

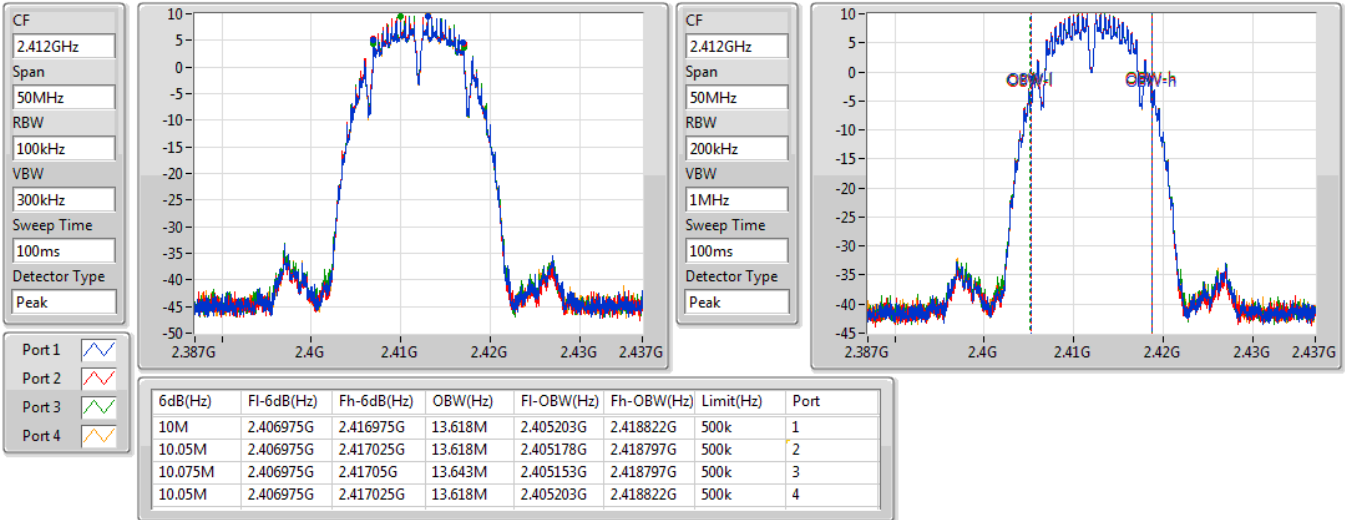
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	10M	13.618M	10.05M	13.618M	10.075M	13.643M	10.05M	13.618M
2437MHz	Pass	500k	10.075M	13.593M	10.05M	13.568M	10.025M	13.568M	10.05M	13.568M
2462MHz	Pass	500k	10.05M	13.593M	10M	13.543M	10.05M	13.543M	10.05M	13.568M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.525M	16.617M	16.55M	16.592M	16.55M	16.642M	16.55M	16.592M
2437MHz	Pass	500k	16.525M	16.992M	16.525M	16.842M	16.475M	16.942M	16.525M	16.917M
2462MHz	Pass	500k	16.55M	16.617M	16.55M	16.542M	16.475M	16.617M	16.55M	16.592M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.9M	18.866M	19.05M	18.916M	19.05M	18.916M	18.775M	18.841M
2437MHz	Pass	500k	18.9M	19.015M	18.85M	19.04M	18.925M	19.04M	18.825M	18.966M
2462MHz	Pass	500k	18.825M	18.841M	19.05M	18.891M	19.05M	18.891M	18.9M	18.841M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	36.55M	37.531M	36.95M	37.531M	36.65M	37.581M	37.3M	37.531M
2437MHz	Pass	500k	37.3M	37.531M	37.9M	37.531M	37.5M	37.531M	37.25M	37.531M
2452MHz	Pass	500k	37.5M	37.531M	37.6M	37.531M	37.15M	37.581M	37.05M	37.481M

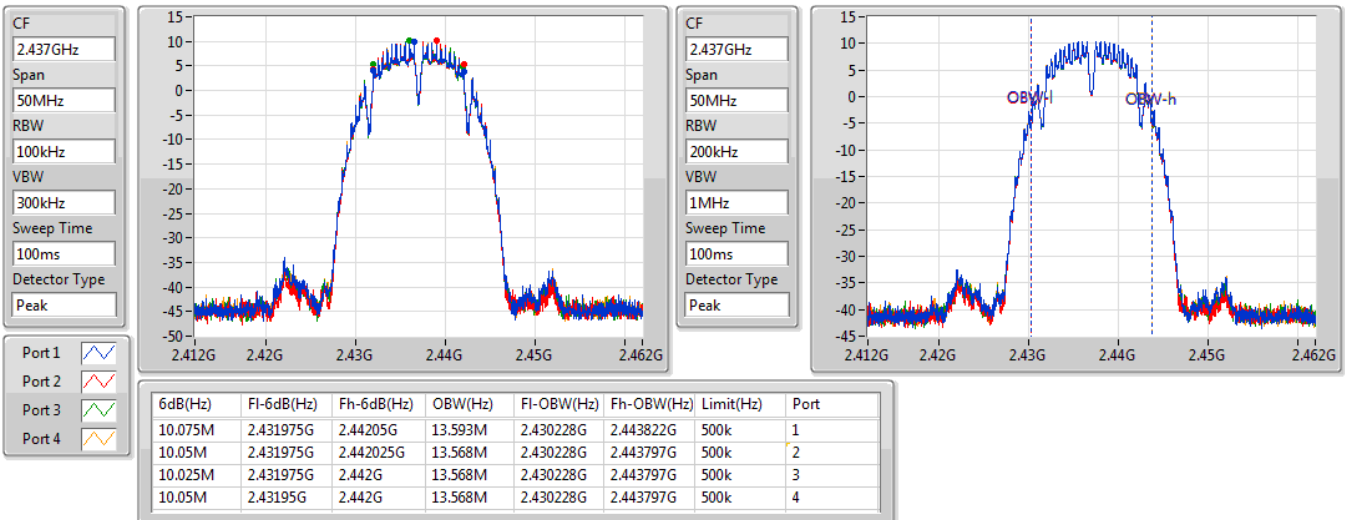
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_4TX
EBW
2412MHz

13/06/2020

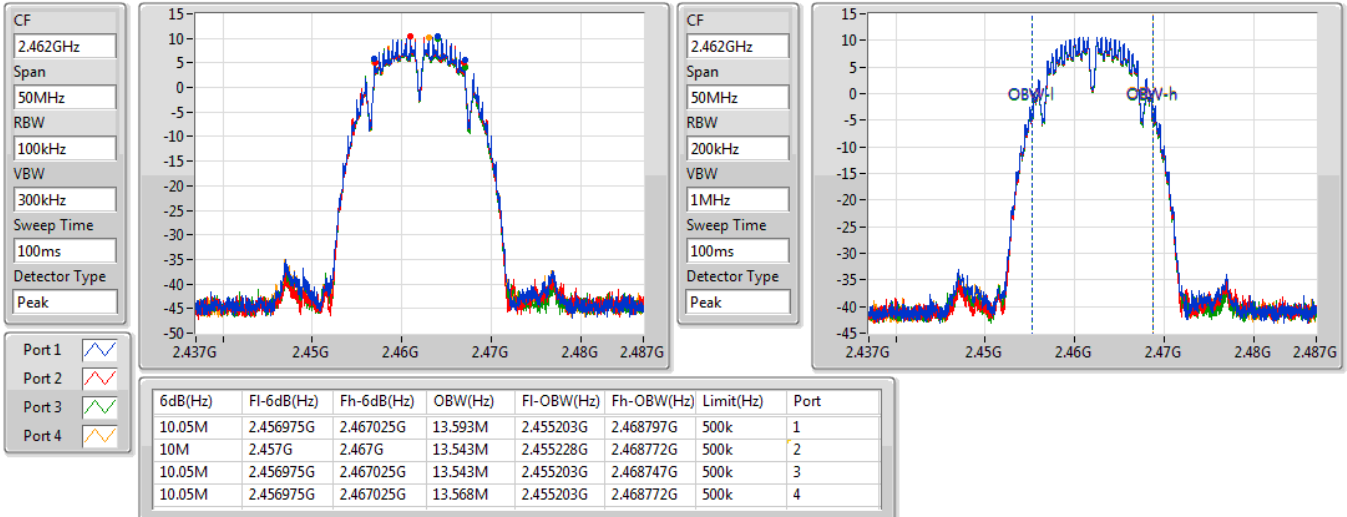

802.11b_Nss1,(1Mbps)_4TX
EBW
2437MHz

13/06/2020

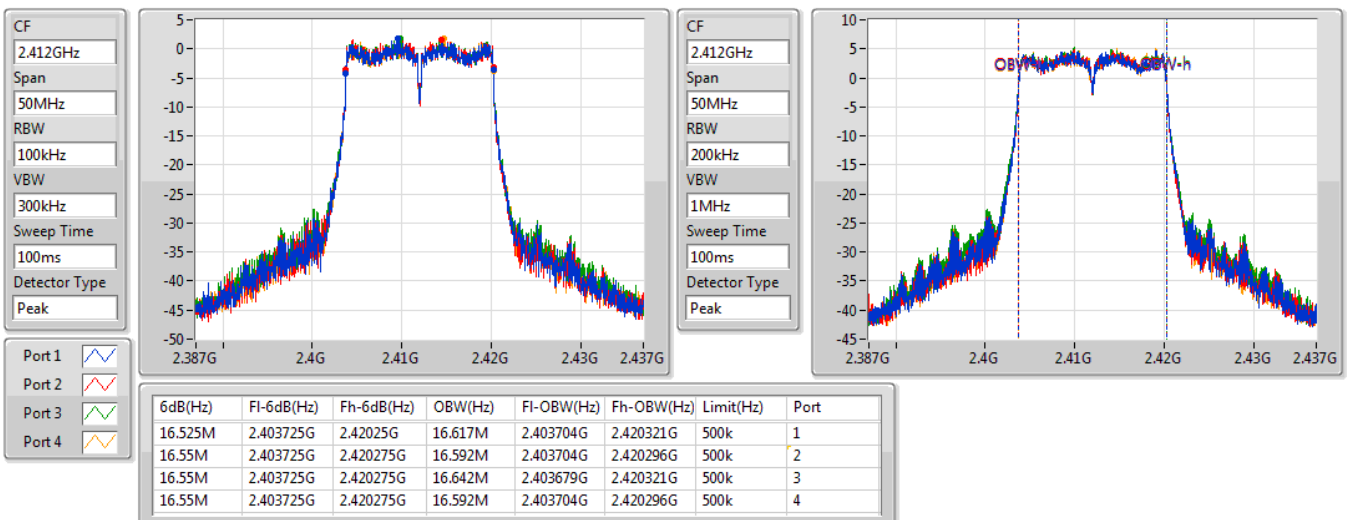


802.11b_Nss1,(1Mbps)_4TX
EBW
2462MHz

13/06/2020

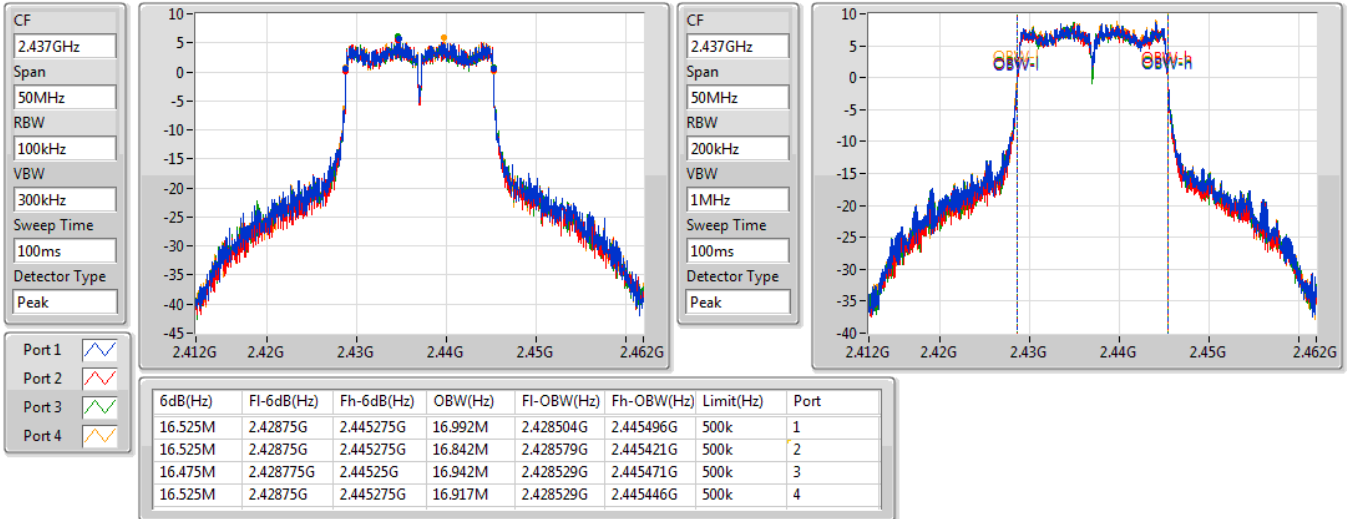

802.11g_Nss1,(6Mbps)_4TX
EBW
2412MHz

13/06/2020

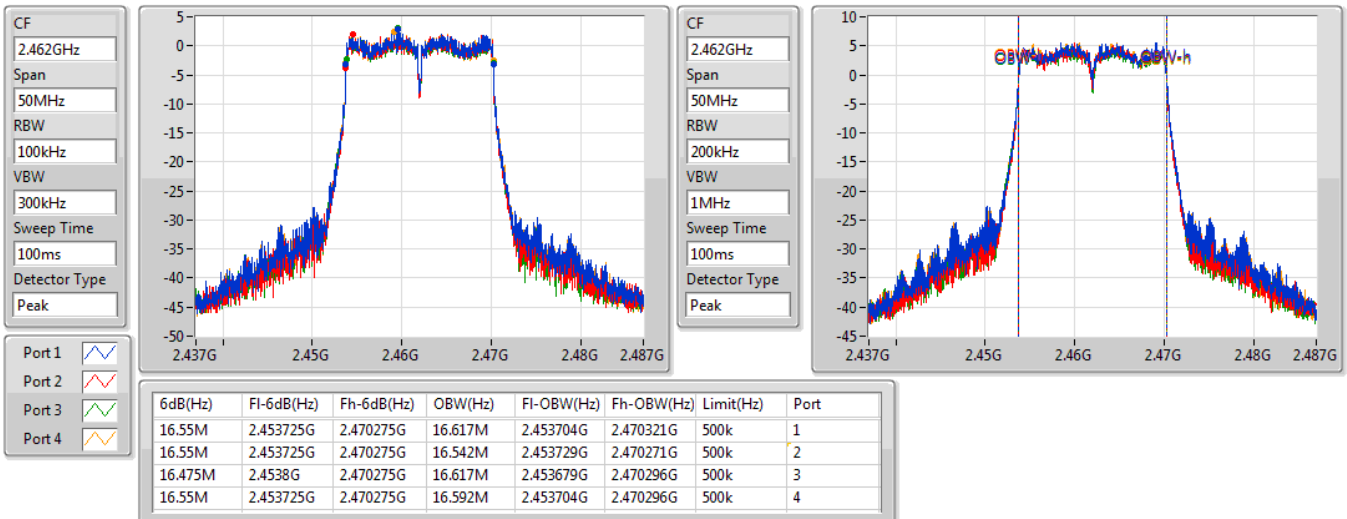


802.11g_Nss1,(6Mbps)_4TX
EBW
2437MHz

13/06/2020

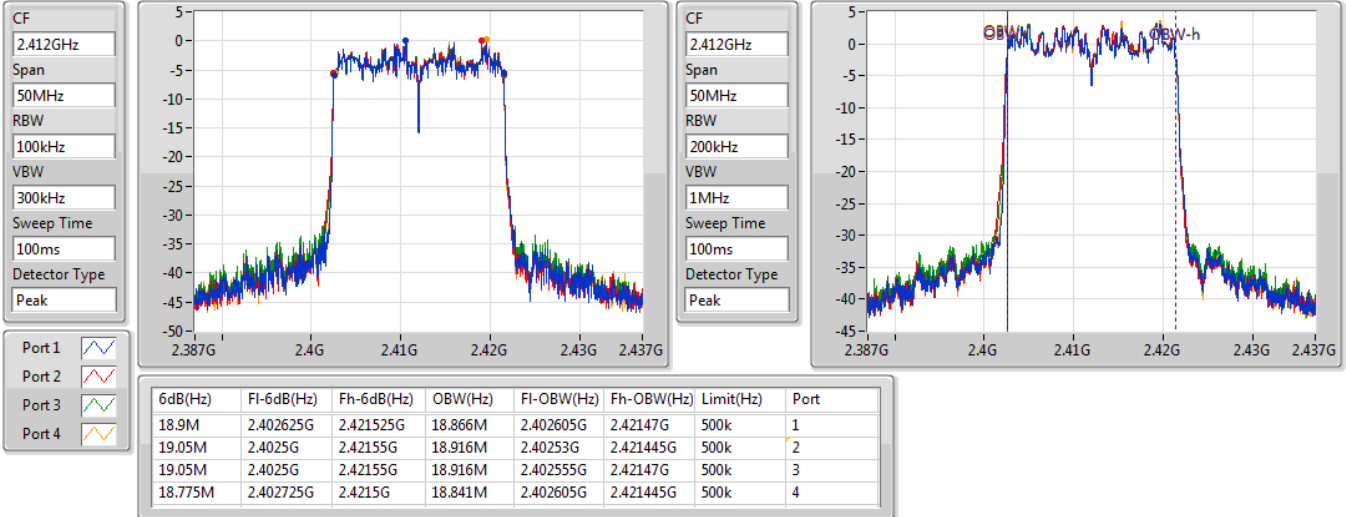

802.11g_Nss1,(6Mbps)_4TX
EBW
2462MHz

13/06/2020

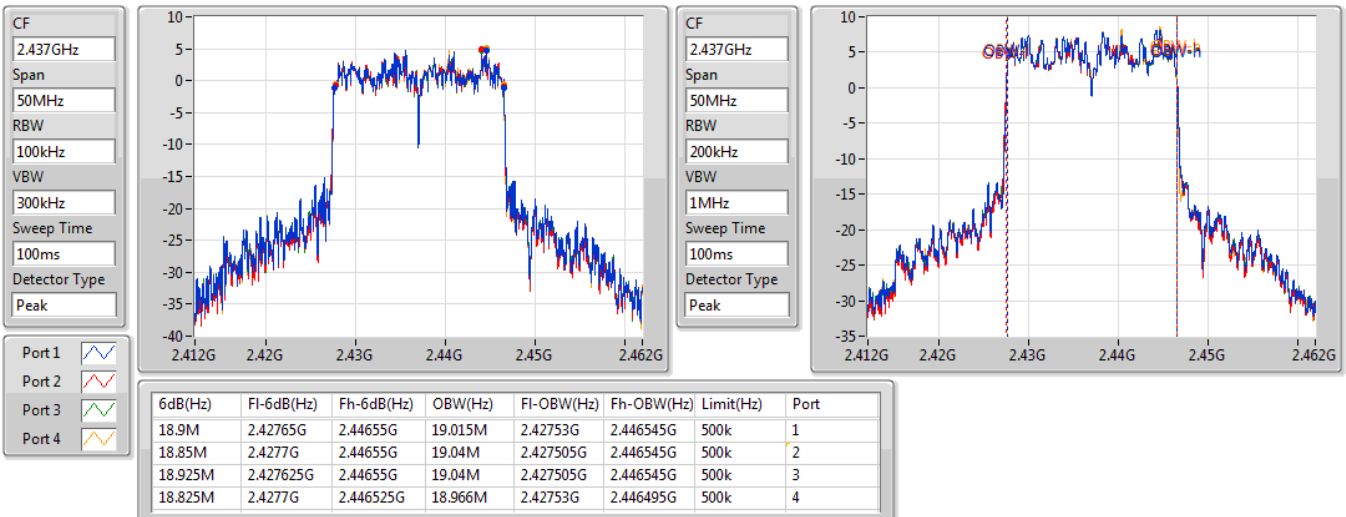


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
2412MHz

13/06/2020

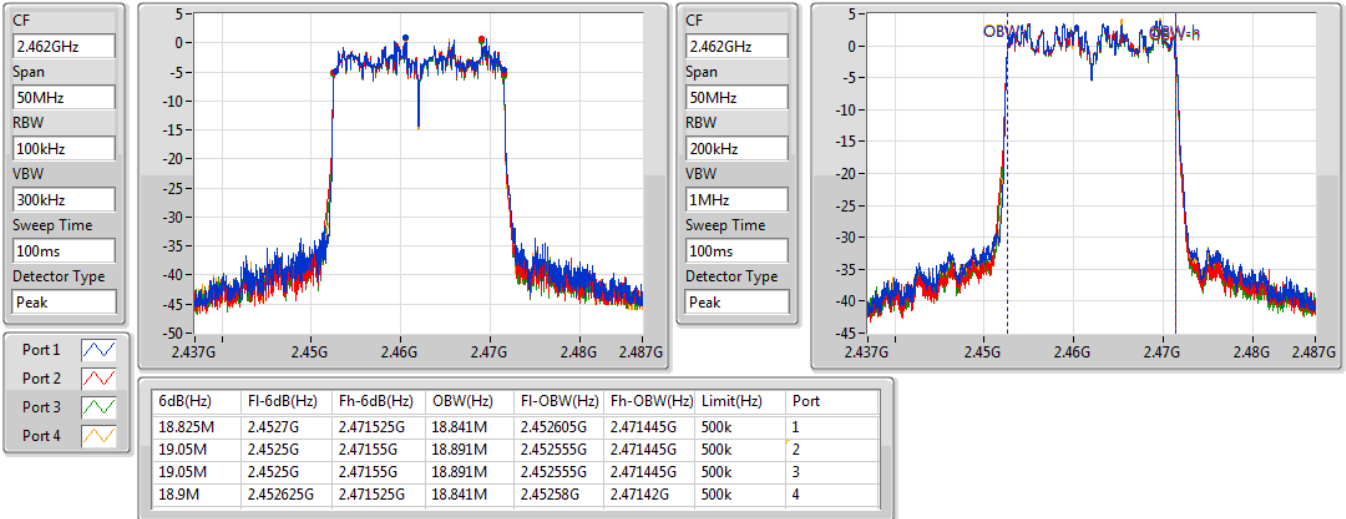

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
2437MHz

13/06/2020

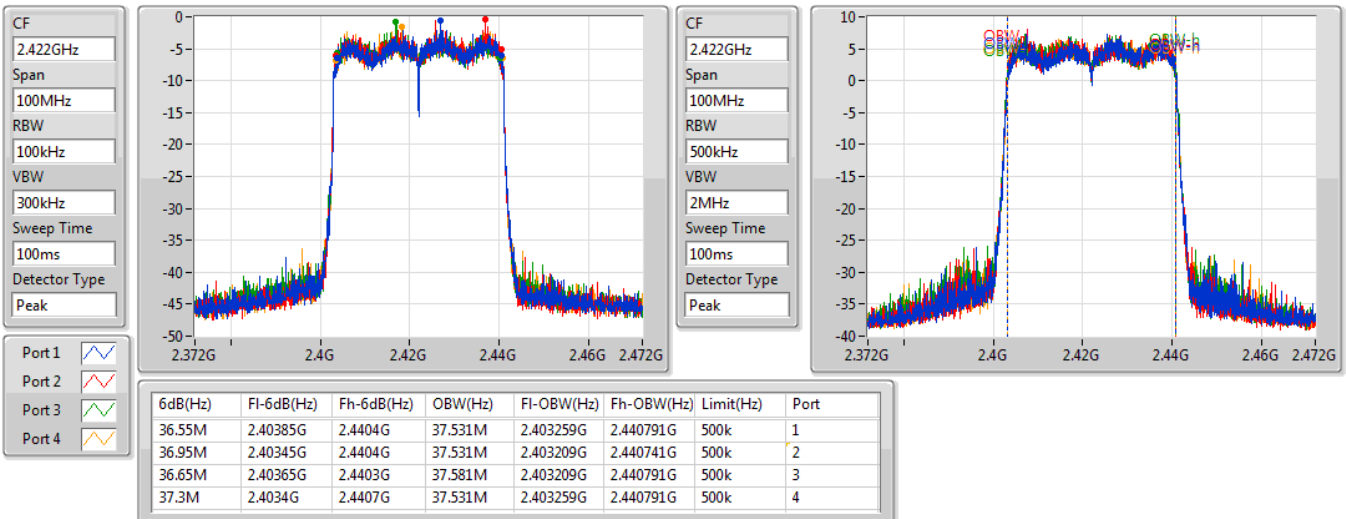


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
2462MHz

13/06/2020

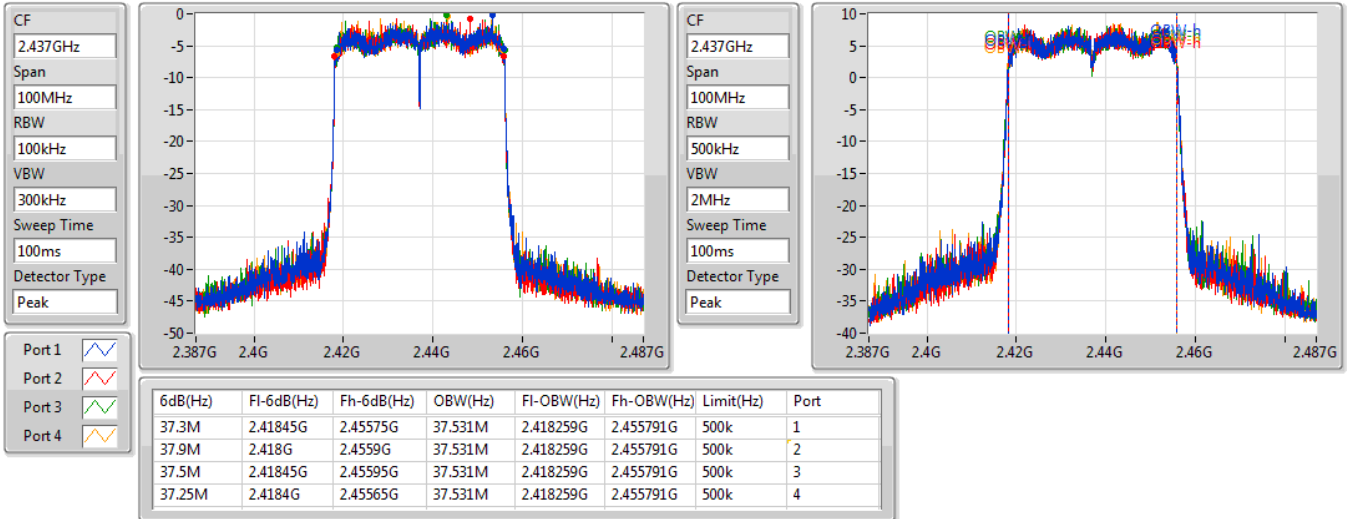

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
2422MHz

13/06/2020

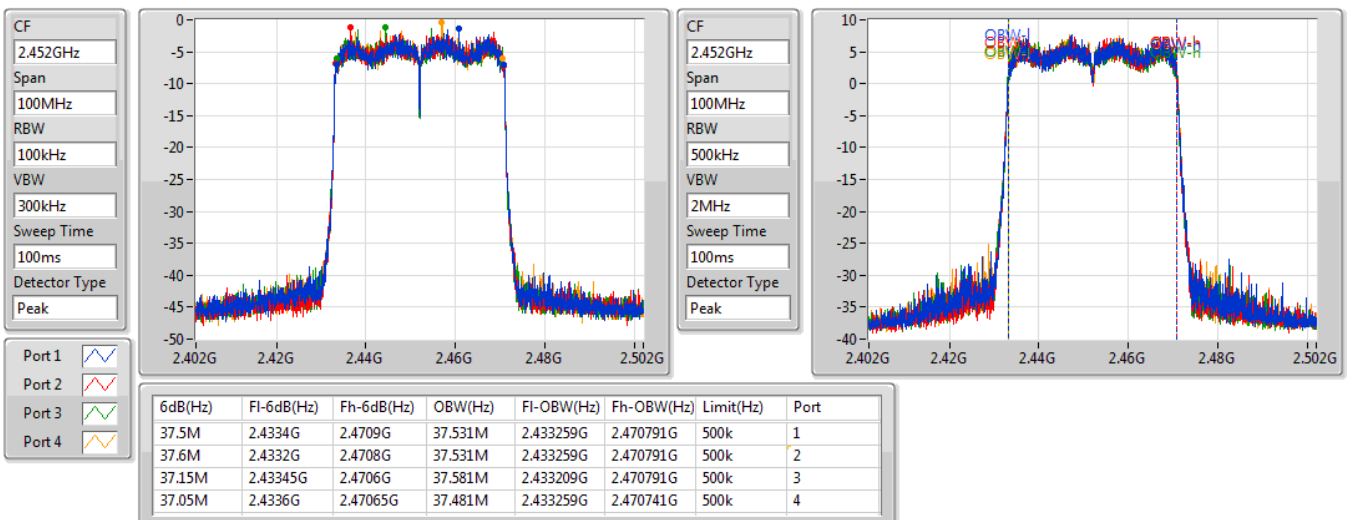


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
2437MHz

13/06/2020


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
2452MHz

13/06/2020





For beamforming function:

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.6M	19.14M	19M1D1D	17.6M	18.741M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	35.45M	37.581M	37M6D1D	31.5M	37.431M

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;

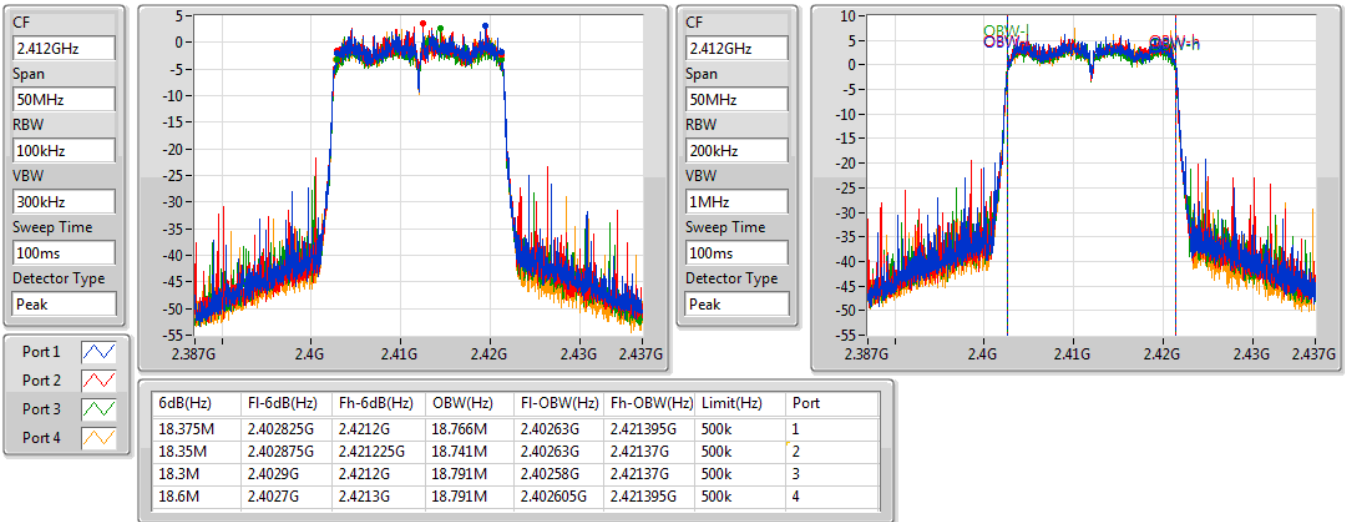
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.375M	18.766M	18.35M	18.741M	18.3M	18.791M	18.6M	18.791M
2437MHz	Pass	500k	18.3M	19.115M	18.125M	19.09M	17.6M	19.14M	18.05M	19.015M
2462MHz	Pass	500k	18.175M	18.791M	18.375M	18.791M	18.3M	18.766M	18.375M	18.791M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	33.9M	37.531M	35.05M	37.581M	35M	37.481M	34.2M	37.431M
2437MHz	Pass	500k	34.1M	37.531M	35.45M	37.481M	33.9M	37.531M	35.05M	37.531M
2452MHz	Pass	500k	34.15M	37.481M	33.5M	37.531M	31.5M	37.531M	32.8M	37.481M

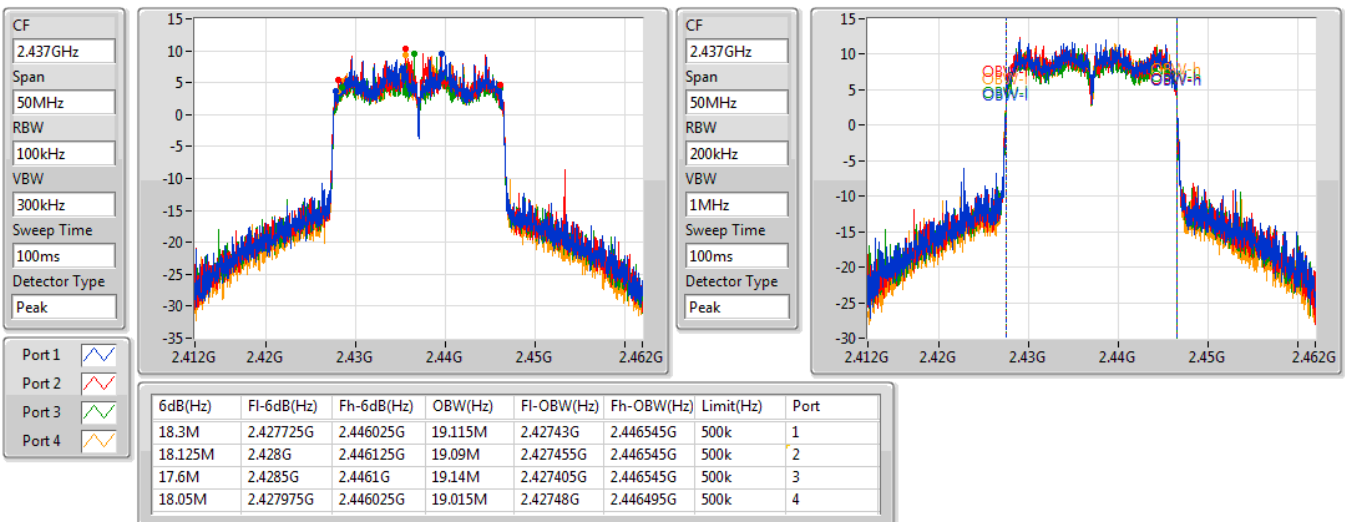
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
2412MHz

20/06/2020

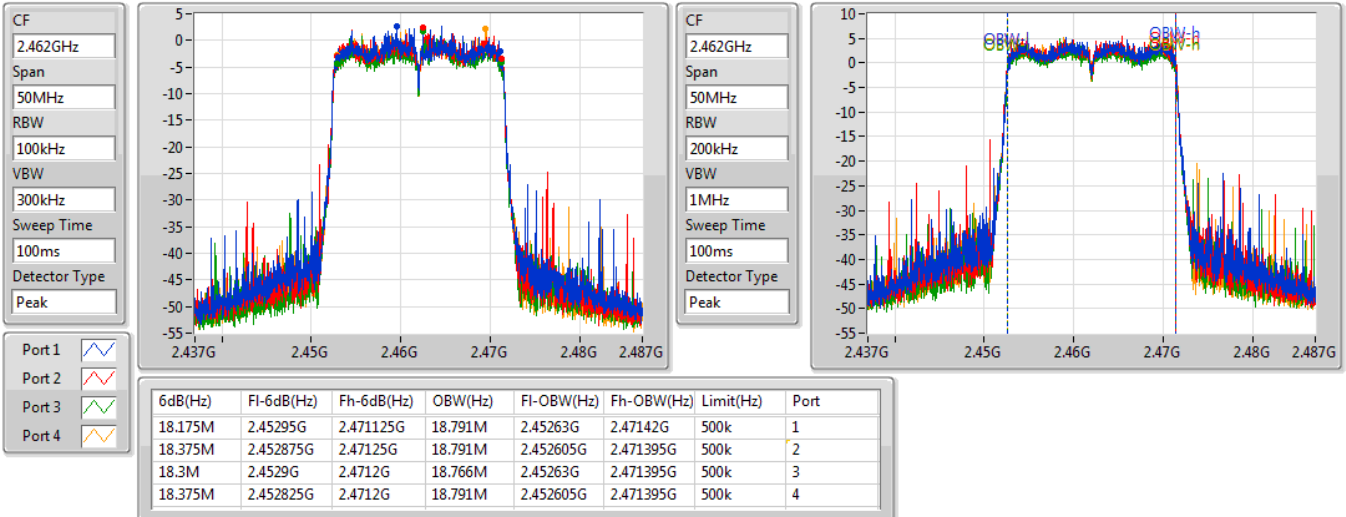

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
2437MHz

20/06/2020

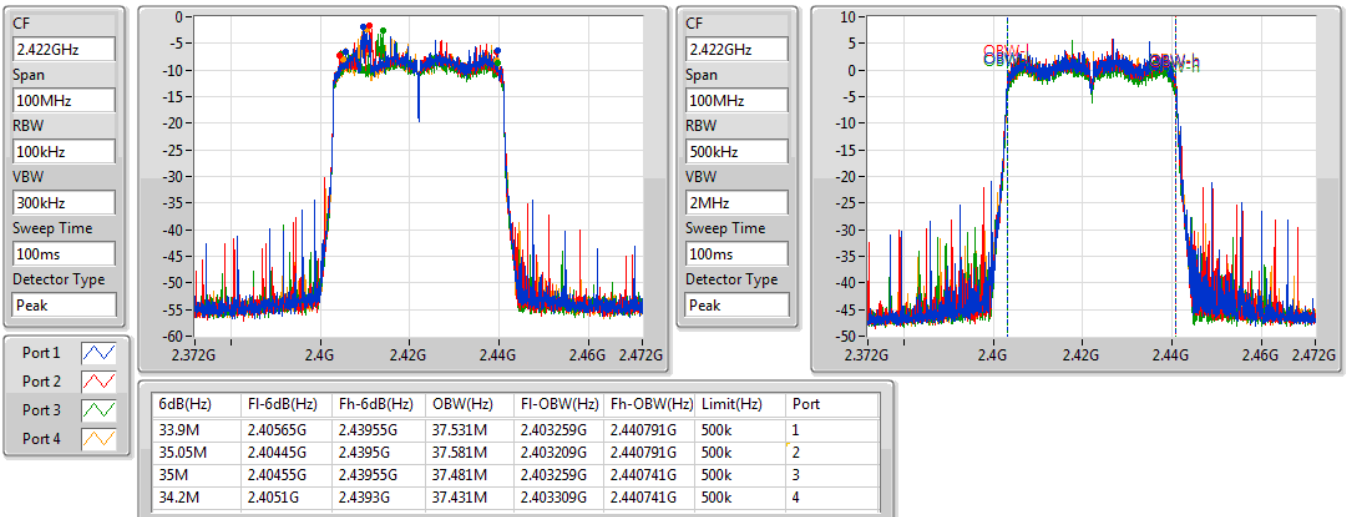


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
2462MHz

20/06/2020

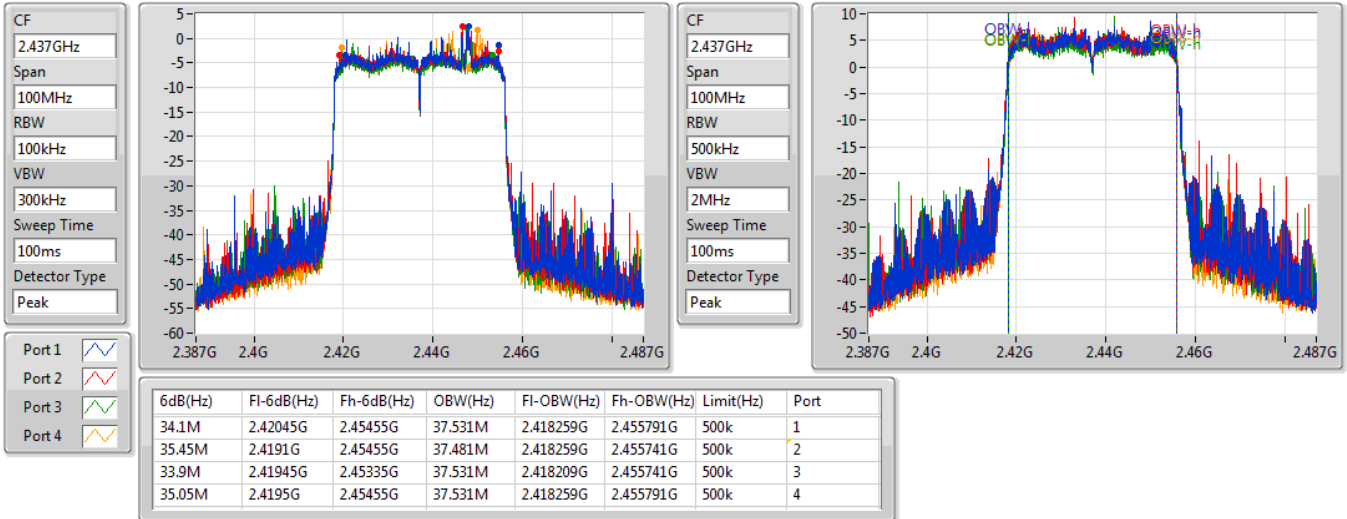

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
2422MHz

20/06/2020

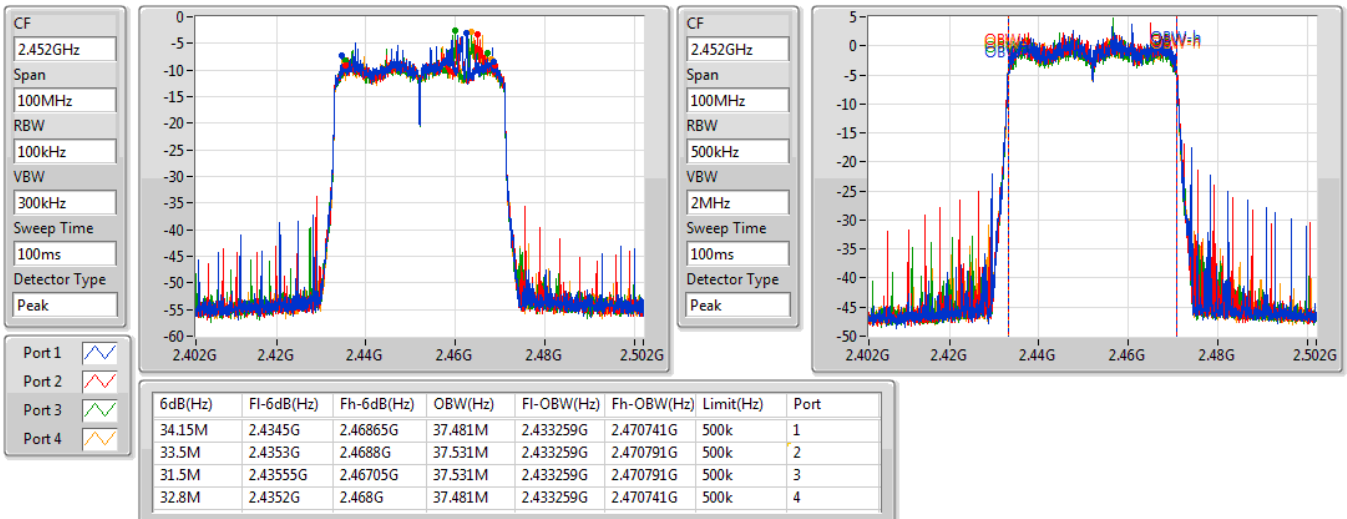


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
2437MHz

20/06/2020


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
2452MHz

20/06/2020





Average Power Result

Appendix C

For non-beamforming function:

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	25.62	0.36475
802.11g_Nss1,(6Mbps)_4TX	25.08	0.32211
802.11ax HEW20_Nss1,(MCS0)_4TX	25.22	0.33266
802.11ax HEW40_Nss1,(MCS0)_4TX	21.05	0.12735

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.40	19.02	19.21	19.17	19.12	25.15	30.00
2437MHz	Pass	4.40	19.57	19.50	19.44	19.59	25.55	30.00
2462MHz	Pass	4.40	19.78	19.62	19.33	19.67	25.62	30.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.40	15.24	15.42	15.54	15.39	21.42	30.00
2417MHz	Pass	4.40	18.57	18.69	18.76	18.71	24.70	30.00
2437MHz	Pass	4.40	19.05	19.03	19.01	19.16	25.08	30.00
2457MHz	Pass	4.40	16.90	16.58	16.66	16.96	22.80	30.00
2462MHz	Pass	4.40	15.98	15.87	15.66	16.02	21.91	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.40	14.51	14.65	14.75	14.61	20.65	30.00
2417MHz	Pass	4.40	17.88	17.92	17.94	18.02	23.96	30.00
2437MHz	Pass	4.40	19.19	19.16	19.12	19.31	25.22	30.00
2457MHz	Pass	4.40	16.20	16.06	15.89	16.26	22.13	30.00
2462MHz	Pass	4.40	15.26	15.09	14.93	15.28	21.16	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.40	13.64	13.83	13.89	13.82	19.82	30.00
2437MHz	Pass	4.40	15.03	15.01	14.98	15.10	21.05	30.00
2452MHz	Pass	4.40	14.16	14.12	13.98	14.19	20.13	30.00

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



Average Power Result

Appendix C

For beamforming function:

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	25.24	0.33420
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	19.50	0.08913

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.37	14.08	13.86	13.22	13.82	19.78	26.63
2417MHz	Pass	9.37	16.73	16.89	15.82	16.26	22.47	26.63
2437MHz	Pass	9.37	19.45	19.37	18.92	19.10	25.24	26.63
2457MHz	Pass	9.37	14.77	14.85	13.77	14.69	20.56	26.63
2462MHz	Pass	9.37	12.79	13.81	12.43	13.61	19.22	26.63
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	9.37	9.95	9.87	9.14	9.84	15.73	26.63
2427MHz	Pass	9.37	11.68	11.71	11.15	11.59	17.56	26.63
2437MHz	Pass	9.37	13.30	13.84	13.03	13.70	19.50	26.63
2447MHz	Pass	9.37	11.75	11.92	11.03	11.56	17.60	26.63
2452MHz	Pass	9.37	8.77	8.91	8.21	8.62	14.66	26.63

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

For non-beamforming function:

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_4TX	0.49
802.11g_Nss1,(6Mbps)_4TX	-1.93
802.11ax HEW20_Nss1,(MCS0)_4TX	4.48
802.11ax HEW40_Nss1,(MCS0)_4TX	-10.59

RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.37	-5.50	-5.22	-4.41	-4.38	0.08	4.63
2437MHz	Pass	9.37	-3.76	-4.85	-4.54	-5.33	0.39	4.63
2462MHz	Pass	9.37	-4.70	-4.64	-5.00	-4.24	0.49	4.63
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.37	-11.86	-11.41	-11.46	-11.53	-5.93	4.63
2437MHz	Pass	9.37	-7.93	-7.58	-7.93	-7.75	-1.93	4.63
2462MHz	Pass	9.37	-11.21	-10.87	-11.15	-10.81	-5.20	4.63
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.37	-5.68	-6.10	-6.07	-6.21	0.01	4.63
2437MHz	Pass	9.37	-1.11	-1.73	-1.84	-1.52	4.48	4.63
2462MHz	Pass	9.37	-4.84	-5.63	-5.91	-5.33	0.61	4.63
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	9.37	-15.32	-14.39	-15.31	-15.27	-11.92	4.63
2437MHz	Pass	9.37	-14.36	-14.05	-13.84	-14.21	-10.59	4.63
2452MHz	Pass	9.37	-15.00	-13.99	-15.26	-14.94	-11.50	4.63

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

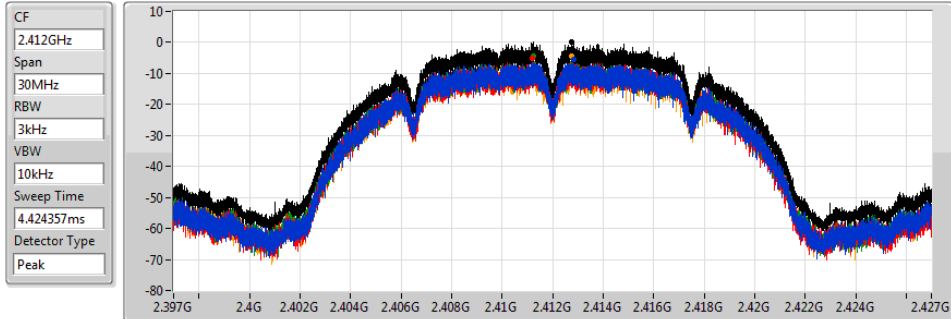
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_4TX

PSD

2412MHz

13/06/2020



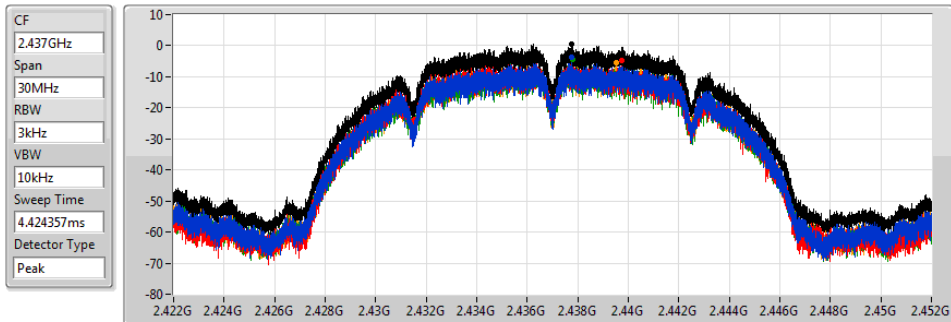
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.08	0.08	-5.50	-5.22	-4.41	-4.38

802.11b_Nss1,(1Mbps)_4TX

PSD

2437MHz

13/06/2020



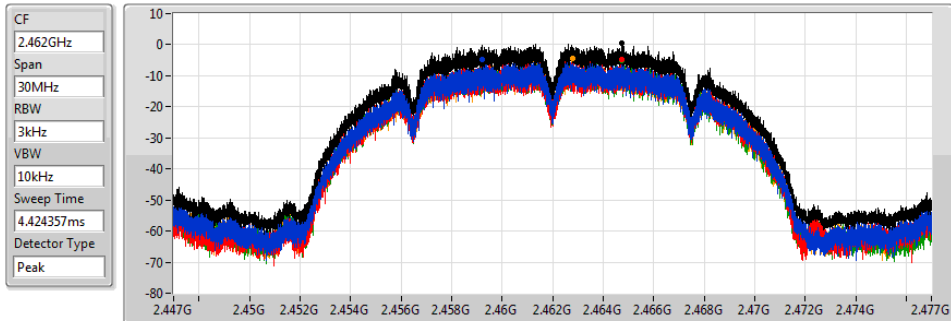
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.39	0.39	-3.76	-4.85	-4.54	-5.33

802.11b_Nss1,(1Mbps)_4TX

PSD

2462MHz

13/06/2020



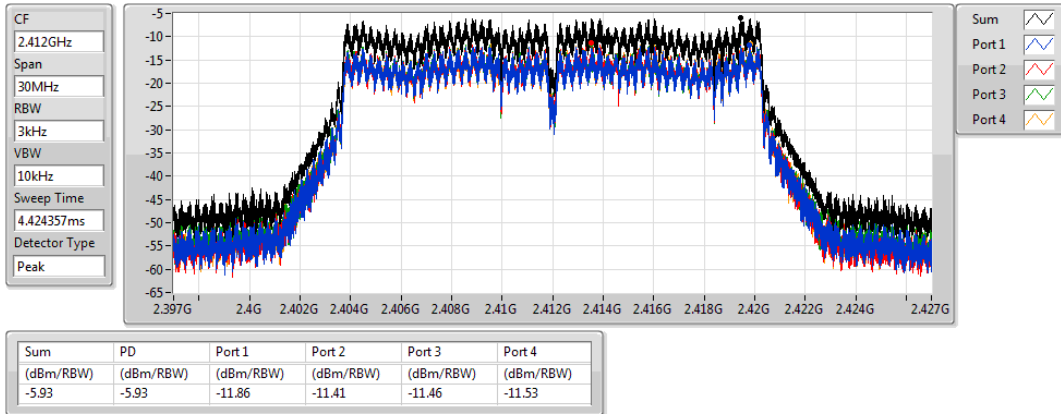
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.49	0.49	-4.70	-4.64	-5.00	-4.24

802.11g_Nss1,(6Mbps)_4TX

2412MHz

PSD

13/06/2020

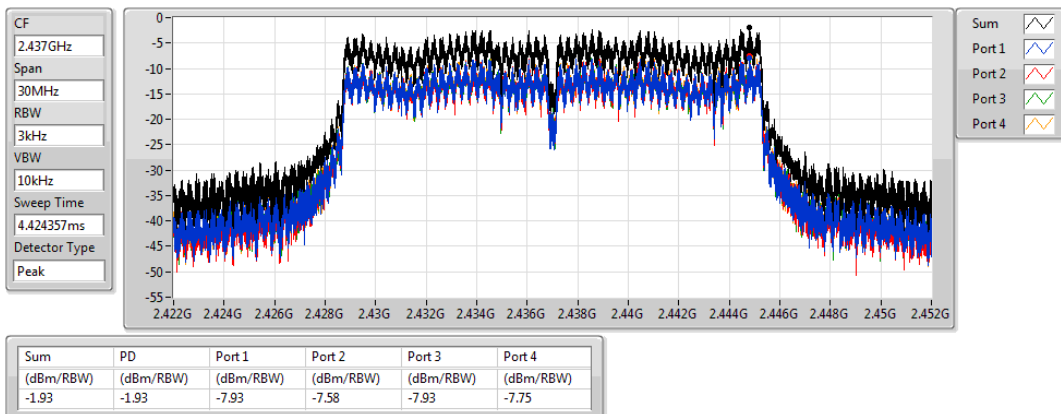


802.11g_Nss1,(6Mbps)_4TX

2437MHz

PSD

13/06/2020

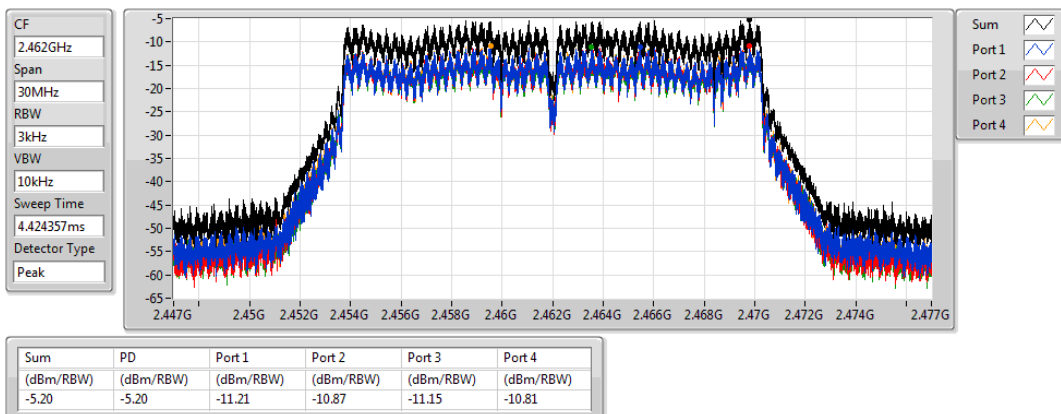


802.11g_Nss1,(6Mbps)_4TX

2462MHz

PSD

13/06/2020

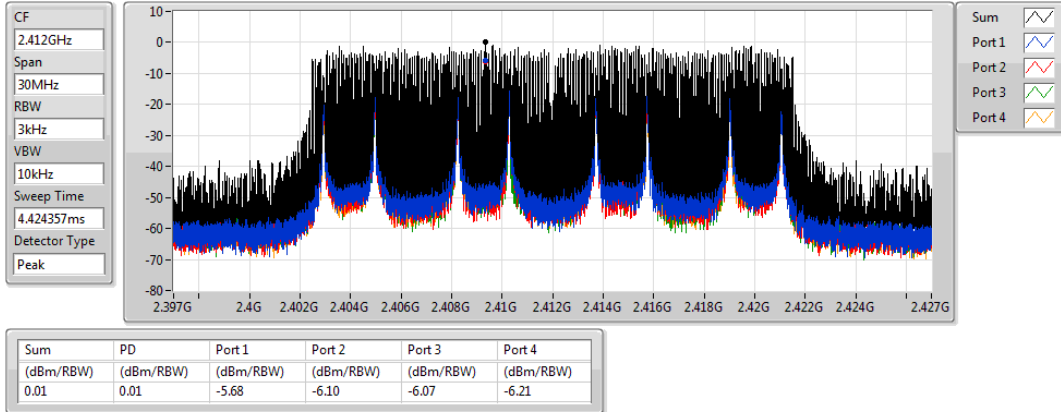


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

2412MHz

13/06/2020

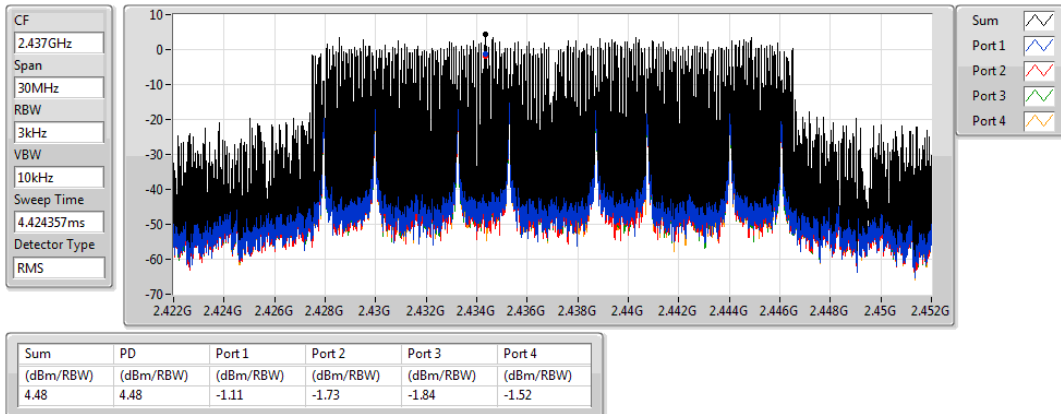


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

2437MHz

13/06/2020

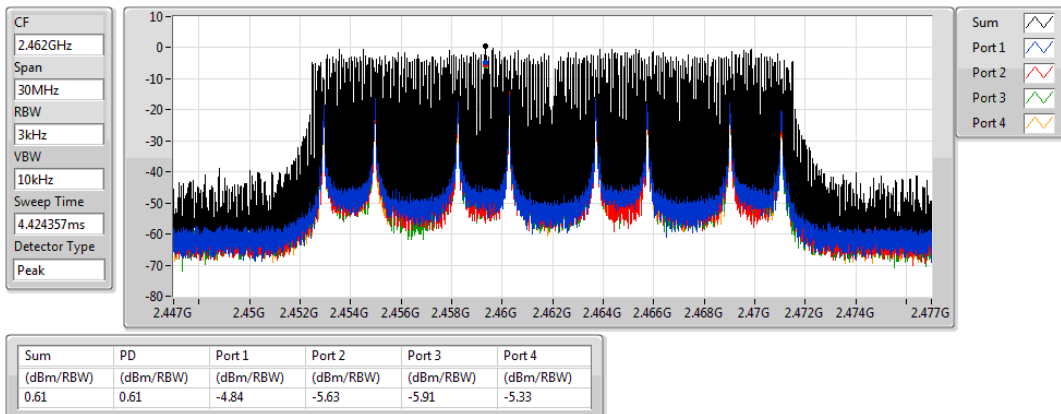


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

2462MHz

13/06/2020

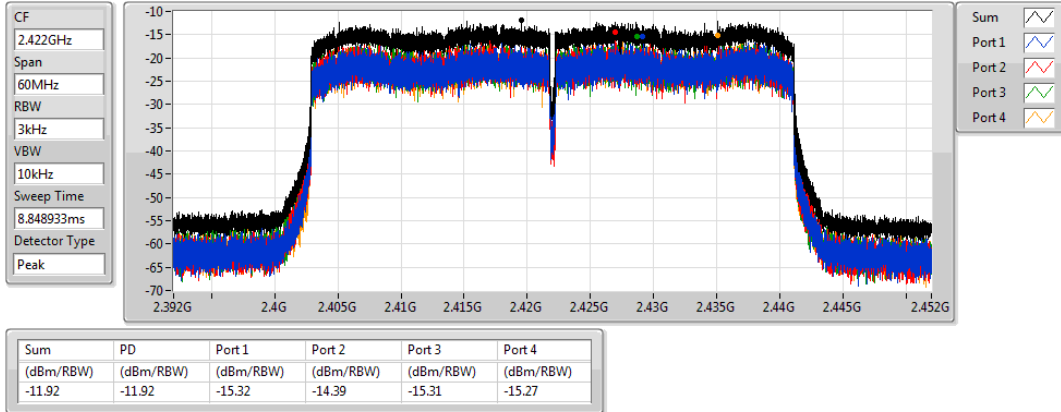


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

2422MHz

13/06/2020

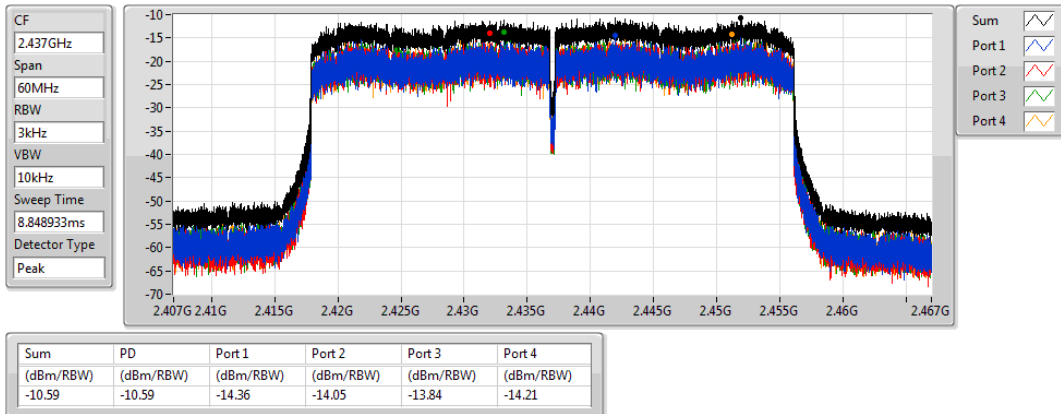


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

2437MHz

13/06/2020

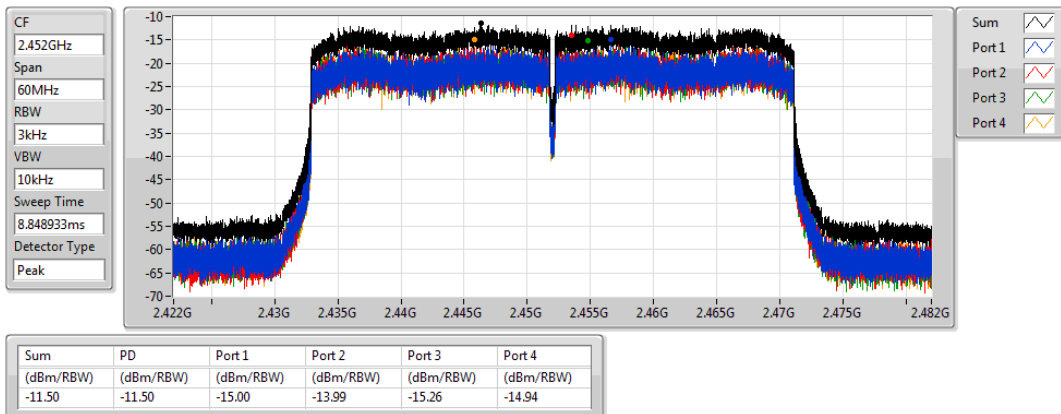


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

2452MHz

13/06/2020





For beamforming function:

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-2.22
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-10.95

RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.37	-10.62	-13.01	-14.31	-11.98	-8.66	4.63
2437MHz	Pass	9.37	-6.33	-5.47	-5.75	-6.22	-2.22	4.63
2462MHz	Pass	9.37	-12.64	-12.74	-13.44	-12.31	-9.23	4.63
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	9.37	-16.68	-17.48	-19.55	-18.53	-13.52	4.63
2437MHz	Pass	9.37	-15.71	-14.64	-14.10	-14.69	-10.95	4.63
2452MHz	Pass	9.37	-17.99	-17.63	-18.55	-20.34	-14.71	4.63

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

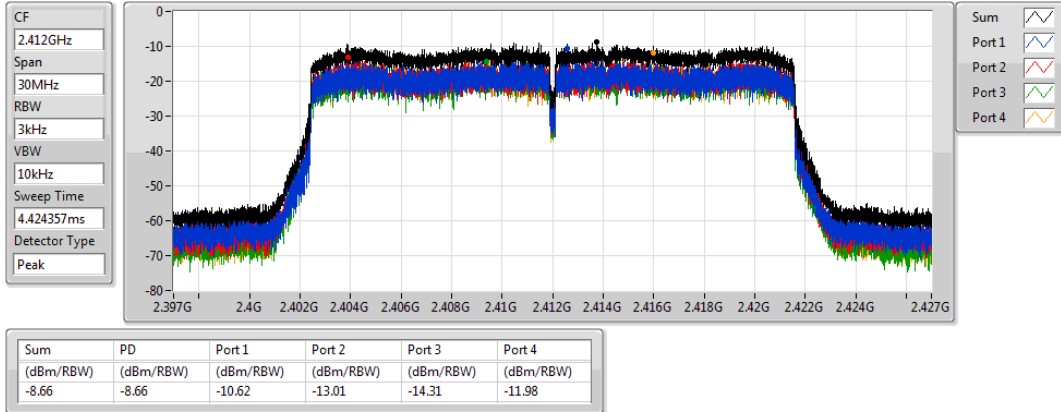
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

2412MHz

20/06/2020

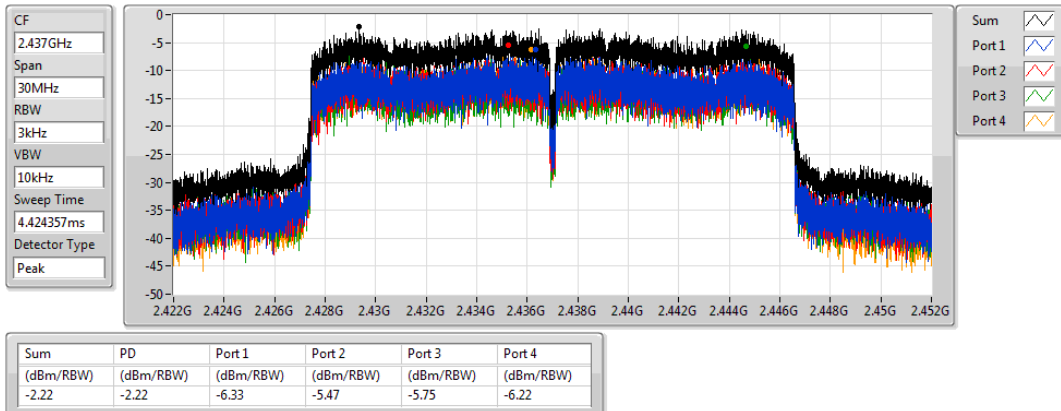


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

2437MHz

20/06/2020

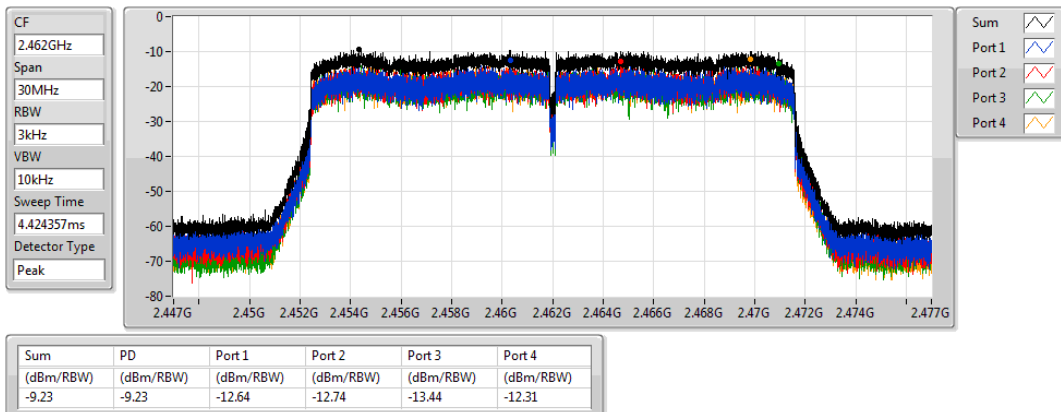


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

2462MHz

20/06/2020

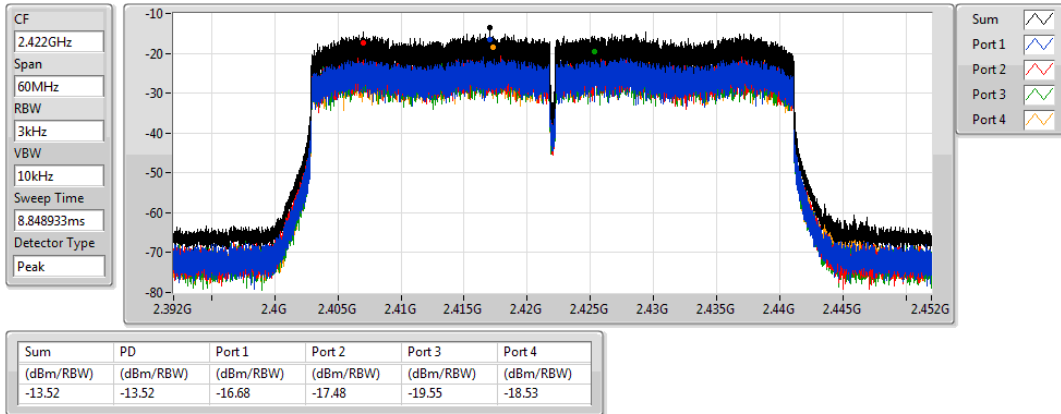


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

2422MHz

20/06/2020

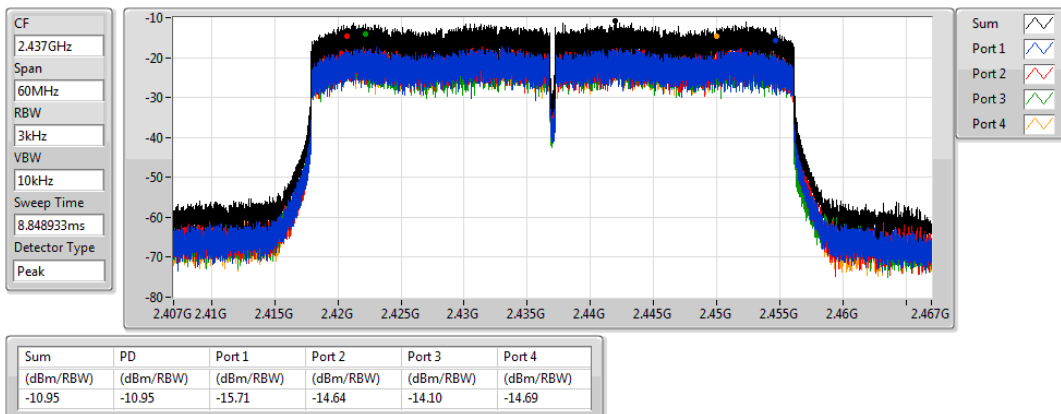


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

2437MHz

20/06/2020

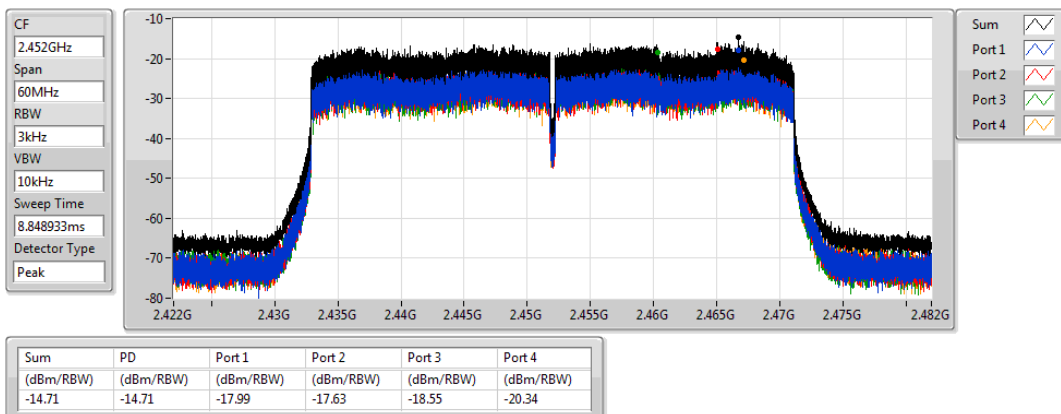


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

2452MHz

20/06/2020





For non-beamforming function:

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)_4TX	Pass	2.461G	10.51	-19.49	952.39M	-52.62	2.39702G	-35.18	2.4G	-47.31	2.48536G	-50.56	16.76236G	-45.19	4
802.11g_Nss1,(6Mbps)_4TX	Pass	2.43449G	6.05	-23.95	2.12147G	-51.96	2.39984G	-29.13	2.4G	-35.94	2.50162G	-51.35	16.49264G	-46.19	3
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	2.44455G	5.01	-24.99	791.91M	-52.23	2.39882G	-34.54	2.4G	-36.72	2.50034G	-51.19	15.07101G	-46.97	3
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	2.45198G	0.51	-29.49	1.88376G	-52.61	2.3998G	-37.66	2.4G	-42.99	2.48474G	-50.00	23.12655G	-46.27	4

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)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.461G	10.51	-19.49	933.46M	-52.19	2.397G	-35.36	2.4G	-45.93	2.50312G	-50.77	16.93937G	-46.54	1
2412MHz	Pass	2.461G	10.51	-19.49	1.85556G	-52.72	2.39704G	-35.88	2.4G	-45.62	2.50898G	-51.26	16.79608G	-46.67	2
2412MHz	Pass	2.461G	10.51	-19.49	1.72653G	-52.26	2.3975G	-35.49	2.4G	-45.68	2.49248G	-51.20	6.9317G	-45.42	3
2412MHz	Pass	2.461G	10.51	-19.49	952.39M	-52.62	2.39702G	-35.18	2.4G	-47.31	2.48536G	-50.56	16.76236G	-45.19	4
2437MHz	Pass	2.461G	10.51	-19.49	738.03M	-52.76	2.3978G	-51.39	2.4G	-53.55	2.49328G	-50.34	16.61908G	-45.90	1
2437MHz	Pass	2.461G	10.51	-19.49	933.17M	-52.53	2.39284G	-51.79	2.4835G	-53.17	2.51156G	-50.97	15.29015G	-46.50	2
2437MHz	Pass	2.461G	10.51	-19.49	907.54M	-52.92	2.39136G	-51.14	2.4835G	-53.04	2.52084G	-49.72	24.61509G	-46.23	3
2437MHz	Pass	2.461G	10.51	-19.49	925.89M	-52.72	2.39478G	-51.34	2.4G	-53.14	2.48488G	-50.71	15.30139G	-46.54	4
2462MHz	Pass	2.461G	10.51	-19.49	2.11098G	-52.37	2.39298G	-51.20	2.4835G	-50.63	2.48444G	-48.05	15.20025G	-46.02	1
2462MHz	Pass	2.461G	10.51	-19.49	907.83M	-52.33	2.3979G	-51.80	2.4835G	-47.68	2.48496G	-46.63	16.39431G	-46.39	2
2462MHz	Pass	2.461G	10.51	-19.49	1.99623G	-52.80	2.3905G	-51.23	2.4835G	-50.80	2.48448G	-49.02	24.49428G	-46.51	3
2462MHz	Pass	2.461G	10.51	-19.49	575.22M	-52.69	2.39114G	-52.12	2.4835G	-51.37	2.485G	-48.54	17.09951G	-46.20	4
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43449G	6.05	-23.95	957.05M	-52.16	2.39978G	-30.44	2.4G	-33.97	2.49196G	-50.27	17.49566G	-46.53	1
2412MHz	Pass	2.43449G	6.05	-23.95	949.77M	-50.56	2.3995G	-30.42	2.4G	-38.08	2.48886G	-50.98	16.42802G	-46.18	2
2412MHz	Pass	2.43449G	6.05	-23.95	2.12147G	-51.96	2.39984G	-29.13	2.4G	-35.94	2.50162G	-51.35	16.49264G	-46.19	3
2412MHz	Pass	2.43449G	6.05	-23.95	911.32M	-52.28	2.39664G	-32.13	2.4G	-32.45	2.49836G	-49.31	24.11218G	-46.05	4
2437MHz	Pass	2.43449G	6.05	-23.95	2.11448G	-50.47	2.3949G	-45.60	2.4G	-49.66	2.48384G	-47.72	6.9907G	-46.47	1
2437MHz	Pass	2.43449G	6.05	-23.95	821.91M	-52.46	2.39952G	-44.17	2.4G	-49.56	2.48448G	-48.70	23.13164G	-46.87	2
2437MHz	Pass	2.43449G	6.05	-23.95	2.18612G	-52.39	2.3995G	-43.77	2.4G	-47.61	2.49274G	-49.01	16.84946G	-46.38	3
2437MHz	Pass	2.43449G	6.05	-23.95	2.09205G	-52.81	2.39484G	-45.49	2.4G	-49.26	2.49468G	-48.73	24.80614G	-46.56	4
2462MHz	Pass	2.43449G	6.05	-23.95	1.79381G	-52.15	2.39048G	-51.82	2.4835G	-44.35	2.48384G	-41.37	16.77641G	-46.57	1
2462MHz	Pass	2.43449G	6.05	-23.95	944.82M	-52.77	2.39936G	-51.95	2.4835G	-43.30	2.48368G	-43.50	6.9008G	-46.18	2
2462MHz	Pass	2.43449G	6.05	-23.95	186.98M	-52.06	2.39576G	-51.44	2.4835G	-47.04	2.48472G	-43.11	16.55446G	-45.94	3
2462MHz	Pass	2.43449G	6.05	-23.95	2.30146G	-52.78	2.39652G	-51.62	2.4835G	-43.95	2.48362G	-42.65	24.11218G	-46.49	4
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44455G	5.01	-24.99	2.12758G	-52.52	2.39882G	-36.29	2.4G	-38.33	2.51856G	-50.60	17.04894G	-46.52	1
2412MHz	Pass	2.44455G	5.01	-24.99	574.35M	-52.50	2.3988G	-36.32	2.4G	-38.25	2.4986G	-51.25	24.15994G	-46.44	2
2412MHz	Pass	2.44455G	5.01	-24.99	791.91M	-52.23	2.39882G	-34.54	2.4G	-36.72	2.50034G	-51.19	15.07101G	-46.97	3
2412MHz	Pass	2.44455G	5.01	-24.99	959.09M	-52.11	2.3988G	-35.85	2.4G	-38.79	2.51472G	-49.90	24.15432G	-46.89	4
2437MHz	Pass	2.44455G	5.01	-24.99	876.37M	-52.90	2.39686G	-44.63	2.4G	-44.40	2.48354G	-47.80	16.41117G	-46.19	1
2437MHz	Pass	2.44455G	5.01	-24.99	2.19049G	-51.99	2.39996G	-44.13	2.4G	-45.30	2.48424G	-47.44	24.78928G	-46.59	2
2437MHz	Pass	2.44455G	5.01	-24.99	2.127G	-52.16	2.39722G	-42.82	2.4G	-42.51	2.48736G	-47.89	16.82136G	-45.83	3
2437MHz	Pass	2.44455G	5.01	-24.99	1.95254G	-52.91	2.39998G	-44.39	2.4G	-45.73	2.48426G	-47.12	16.43364G	-46.71	4
2462MHz	Pass	2.44455G	5.01	-24.99	1.83895G	-52.68	2.39798G	-52.03	2.4835G	-43.82	2.48376G	-42.26	16.81013G	-46.42	1
2462MHz	Pass	2.44455G	5.01	-24.99	828.9M	-52.08	2.39246G	-51.75	2.4835G	-44.48	2.48376G	-44.36	6.82494G	-46.82	2
2462MHz	Pass	2.44455G	5.01	-24.99	892.1M	-52.41	2.39052G	-51.48	2.4835G	-45.54	2.48374G	-44.74	16.45893G	-46.84	3
2462MHz	Pass	2.44455G	5.01	-24.99	2.14127G	-53.20	2.39364G	-51.55	2.4835G	-45.00	2.48374G	-43.22	16.37745G	-46.28	4
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.45198G	0.51	-29.49	696.1M	-52.94	2.39776G	-37.89	2.4G	-42.23	2.5493G	-51.55	15.06624G	-46.81	1
2422MHz	Pass	2.45198G	0.51	-29.49	2.1368G	-53.03	2.39952G	-39.86	2.4G	-44.37	2.55506G	-51.45	16.21331G	-47.05	2
2422MHz	Pass	2.45198G	0.51	-29.49	941.13M	-51.88	2.39628G	-40.15	2.4G	-41.87	2.49422G	-51.47	16.79385G	-46.45	3
2422MHz	Pass	2.45198G	0.51	-29.49	1.88376G	-52.61	2.3998G	-37.66	2.4G	-42.99	2.48474G	-50.00	23.12655G	-46.27	4
2437MHz	Pass	2.45198G	0.51	-29.49	2.15941G	-53.06	2.39744G	-40.83	2.4G	-42.38	2.48382G	-46.33	24.47274G	-46.17	1
2437MHz	Pass	2.45198G	0.51	-29.49	2.11905G	-52.82	2.3994G	-42.09	2.4G	-46.66	2.4841G	-47.90	16.72093G	-46.19	2
2437MHz	Pass	2.45198G	0.51	-29.49	1.82708G	-51.14	2.39956G	-40.74	2.4G	-45.14	2.4857G	-46.16	17.42207G	-45.43	3
2437MHz	Pass	2.45198G	0.51	-29.49	1.88834G	-52.93	2.39876G	-40.74	2.4G	-44.48	2.48494G	-45.91	17.47816G	-47.00	4



CSE(Non-restricted Band) Result

Appendix E

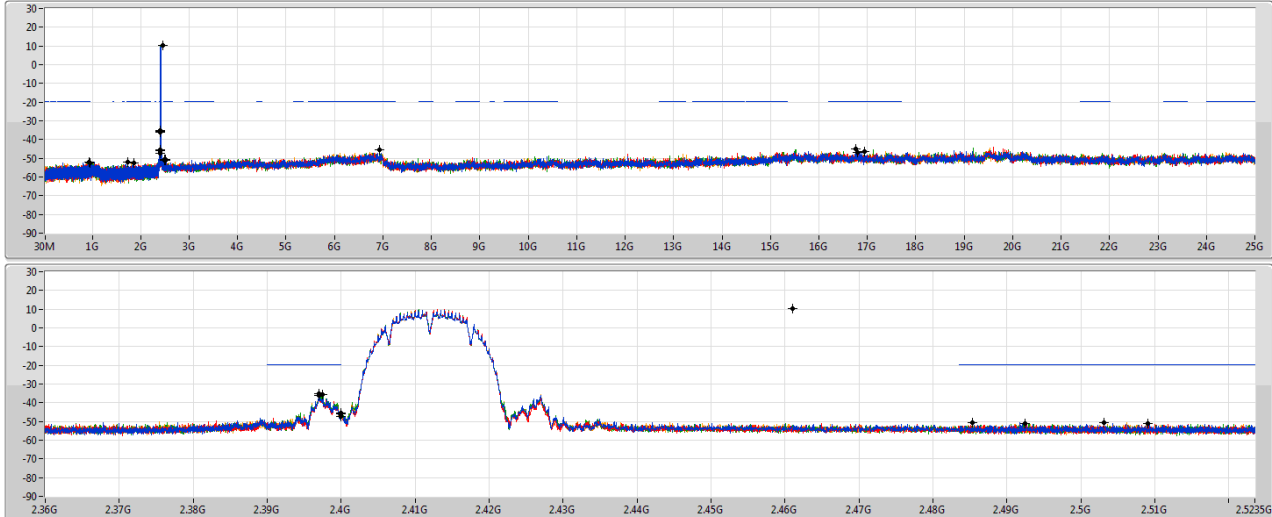
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2452MHz	Pass	2.45198G	0.51	-29.49	2.16915G	-52.14	2.39944G	-51.82	2.4835G	-47.61	2.49134G	-43.82	16.66204G	-46.51	1
2452MHz	Pass	2.45198G	0.51	-29.49	2.00427G	-52.04	2.39856G	-52.58	2.4835G	-48.96	2.48818G	-44.55	6.94142G	-46.52	2
2452MHz	Pass	2.45198G	0.51	-29.49	1.64159G	-52.07	2.39948G	-51.88	2.4835G	-43.54	2.4835G	-42.90	24.12778G	-46.53	3
2452MHz	Pass	2.45198G	0.51	-29.49	2.09472G	-52.68	2.39932G	-51.53	2.4835G	-45.66	2.48874G	-45.25	6.97508G	-46.27	4

802.11b_Nss1,(1Mbps)_4TX

2412MHz

CSE NdB

13/06/2020



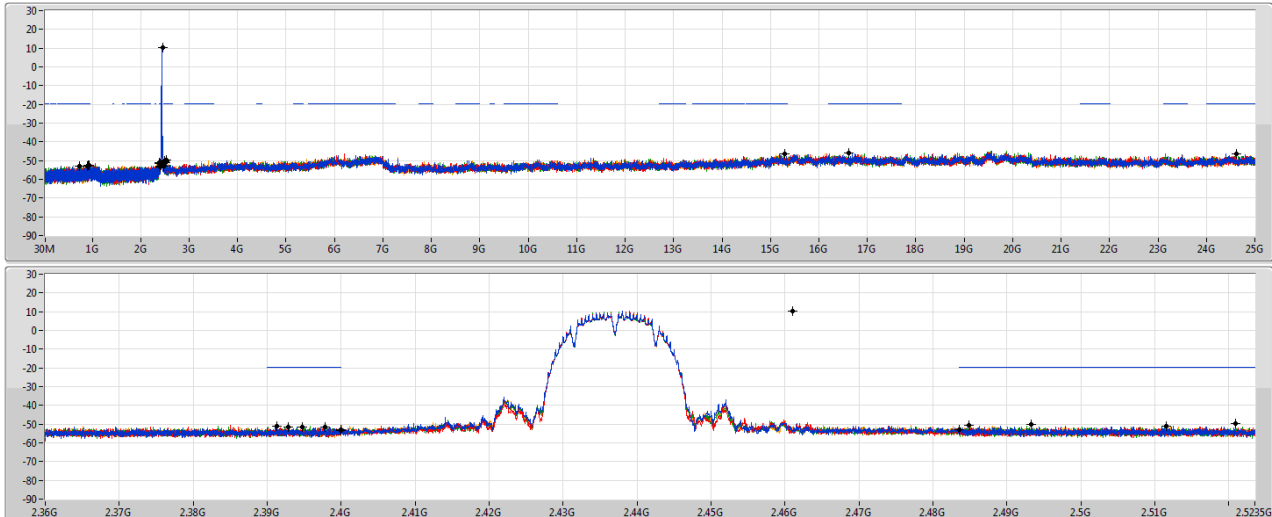
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2.461G	10.51	-19.49	933.46M	-52.19	2.397G	-35.36	2.4G	-45.93	2.50312G	-50.77	16.93937G	-46.54	1
2.461G	10.51	-19.49	1.85556G	-52.72	2.39704G	-35.88	2.4G	-45.62	2.50898G	-51.26	16.79608G	-46.67	2
2.461G	10.51	-19.49	1.72653G	-52.26	2.3975G	-35.49	2.4G	-45.68	2.49248G	-51.20	6.9317G	-45.42	3
2.461G	10.51	-19.49	952.39M	-52.62	2.39702G	-35.18	2.4G	-47.31	2.48536G	-50.56	16.76236G	-45.19	4

802.11b_Nss1,(1Mbps)_4TX

2437MHz

CSE NdB

13/06/2020



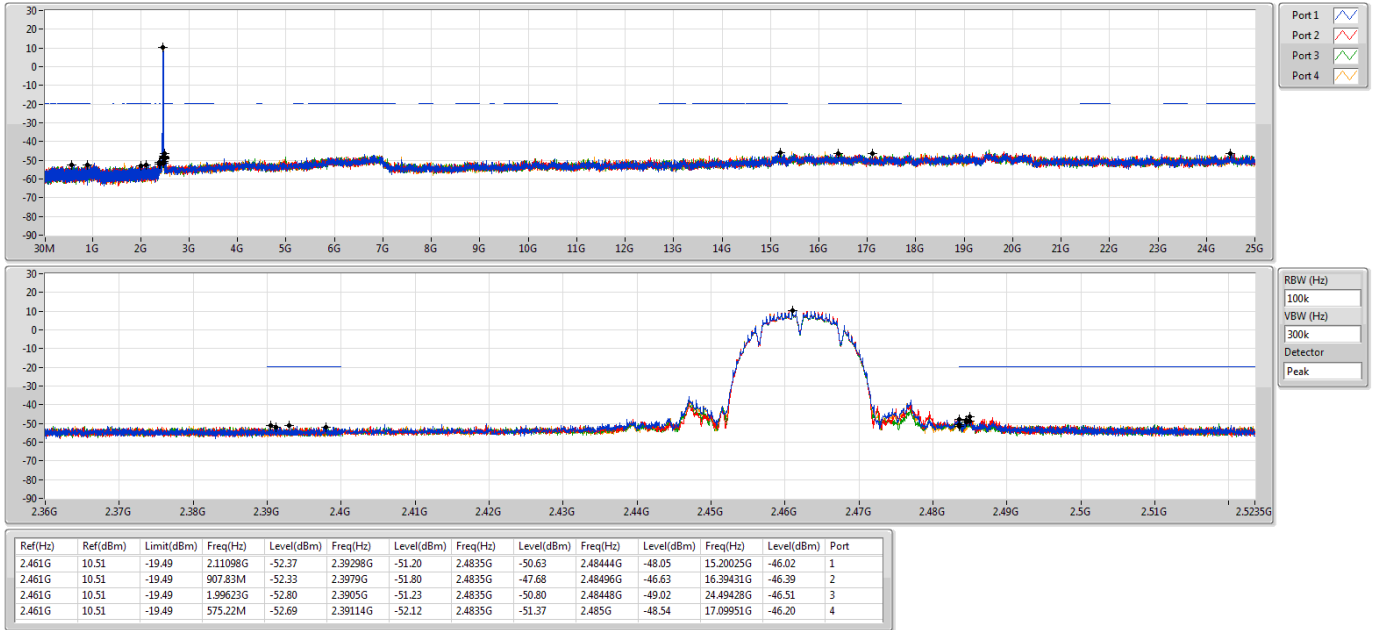
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.461G	10.51	-19.49	738.03M	-52.76	2.3978G	-51.39	2.4G	-53.55	2.49328G	-50.34	16.61908G	-45.90	1
2.461G	10.51	-19.49	933.17M	-52.53	2.39284G	-51.79	2.4835G	-53.17	2.51156G	-50.97	15.29015G	-46.50	2
2.461G	10.51	-19.49	907.54M	-52.92	2.39136G	-51.14	2.4835G	-53.04	2.52084G	-49.72	24.61509G	-46.23	3
2.461G	10.51	-19.49	925.89M	-52.72	2.39478G	-51.34	2.4G	-53.14	2.48488G	-50.71	15.30139G	-46.54	4

802.11b_Nss1,(1Mbps)_4TX

2462MHz

CSE NdB

13/06/2020

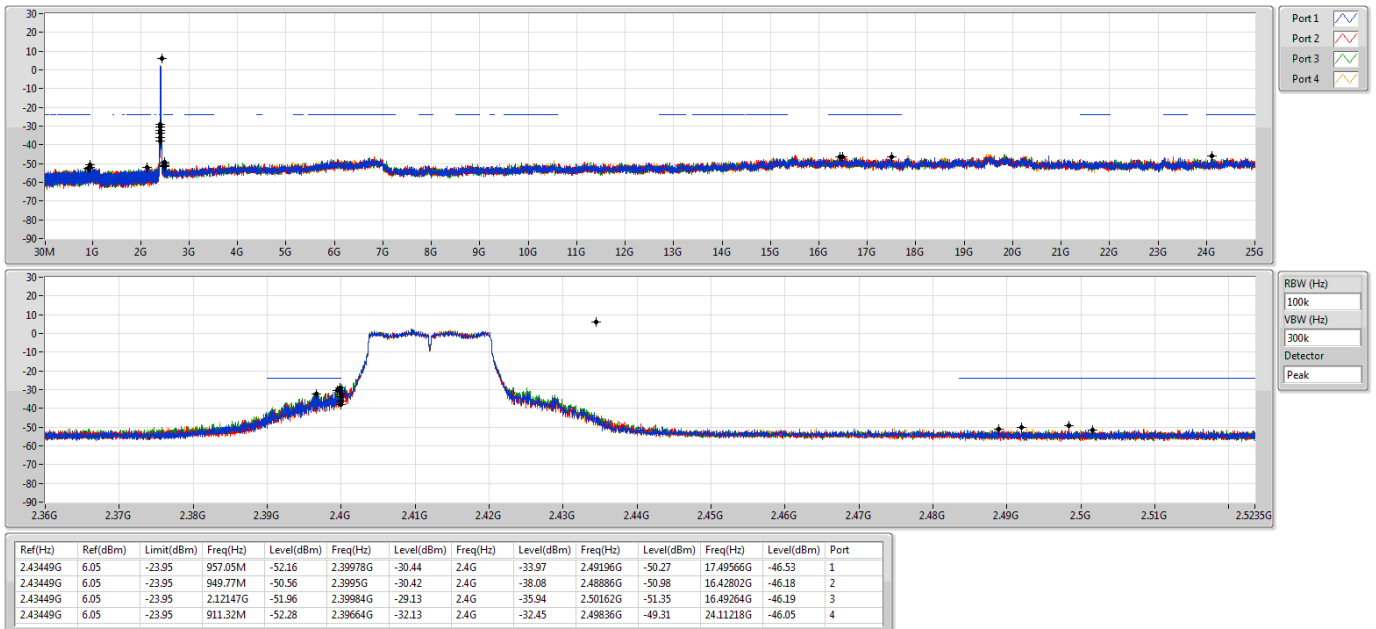


802.11g_Nss1,(6Mbps)_4TX

2412MHz

CSE NdB

13/06/2020

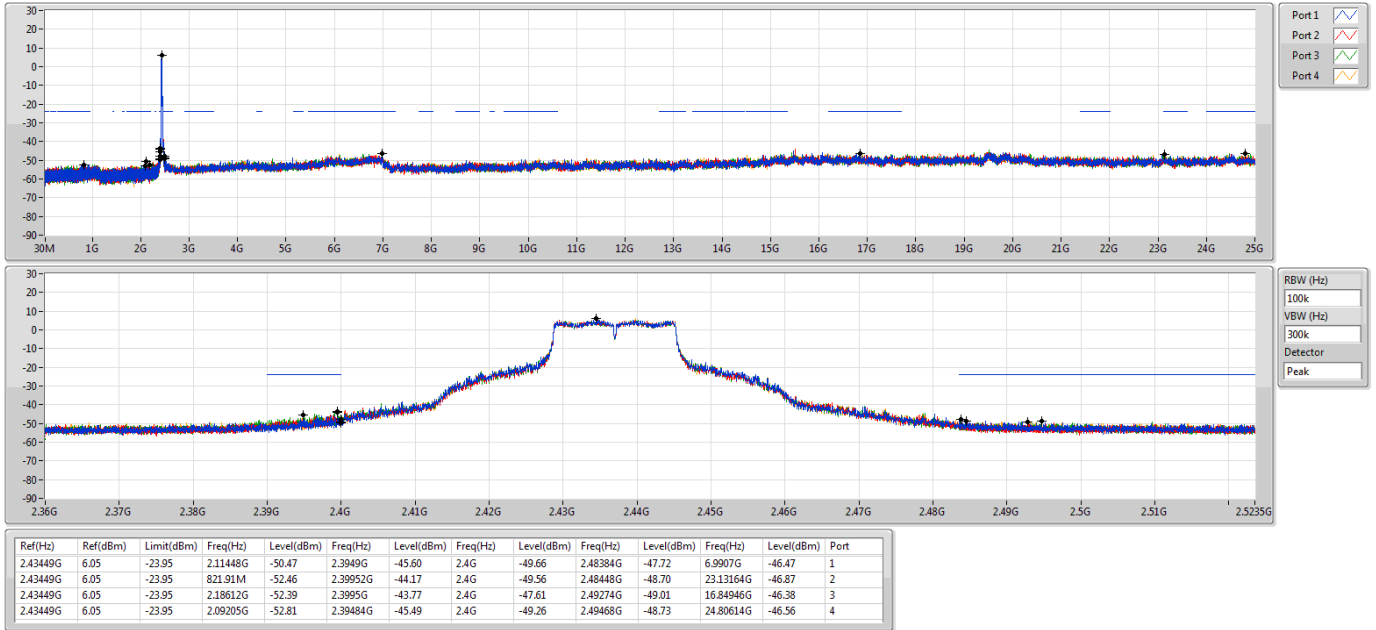


802.11g_Nss1,(6Mbps)_4TX

CSE NdB

2437MHz

13/06/2020

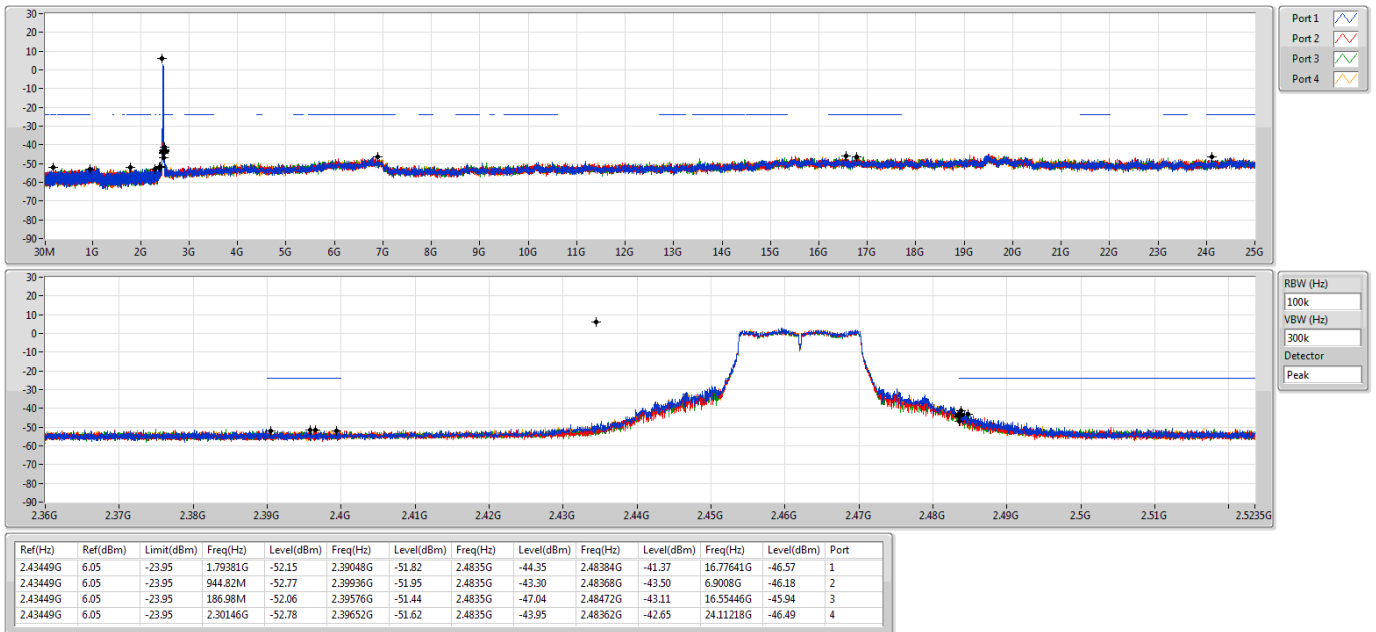


802.11g_Nss1,(6Mbps)_4TX

CSE NdB

2462MHz

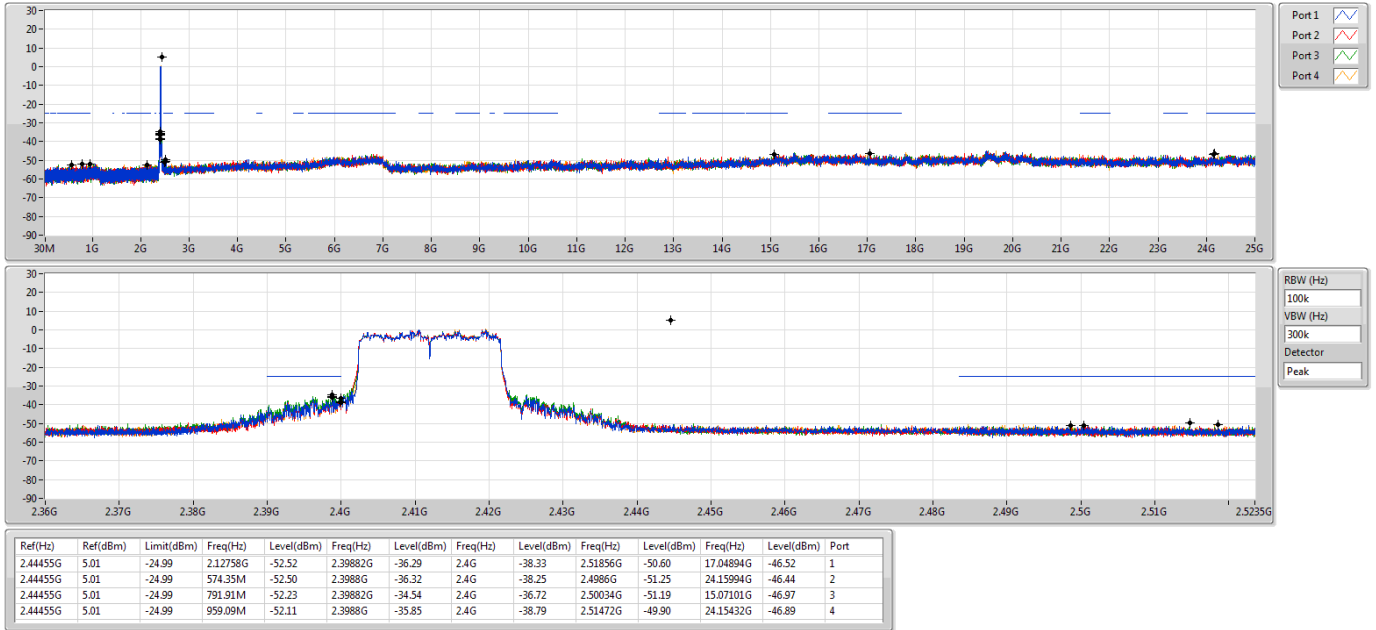
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802.11ax HEW20_Nss1,(MCS0)_4TX

CSE NdB

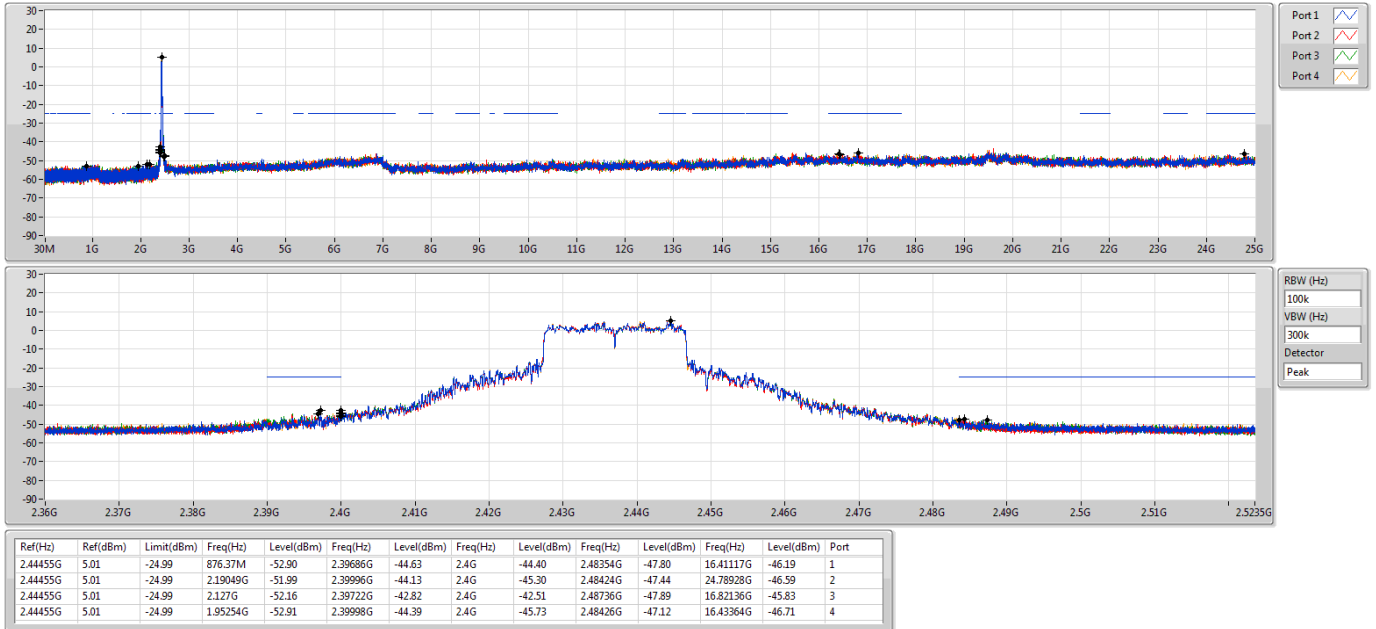
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802.11ax HEW20_Nss1,(MCS0)_4TX

CSE NdB

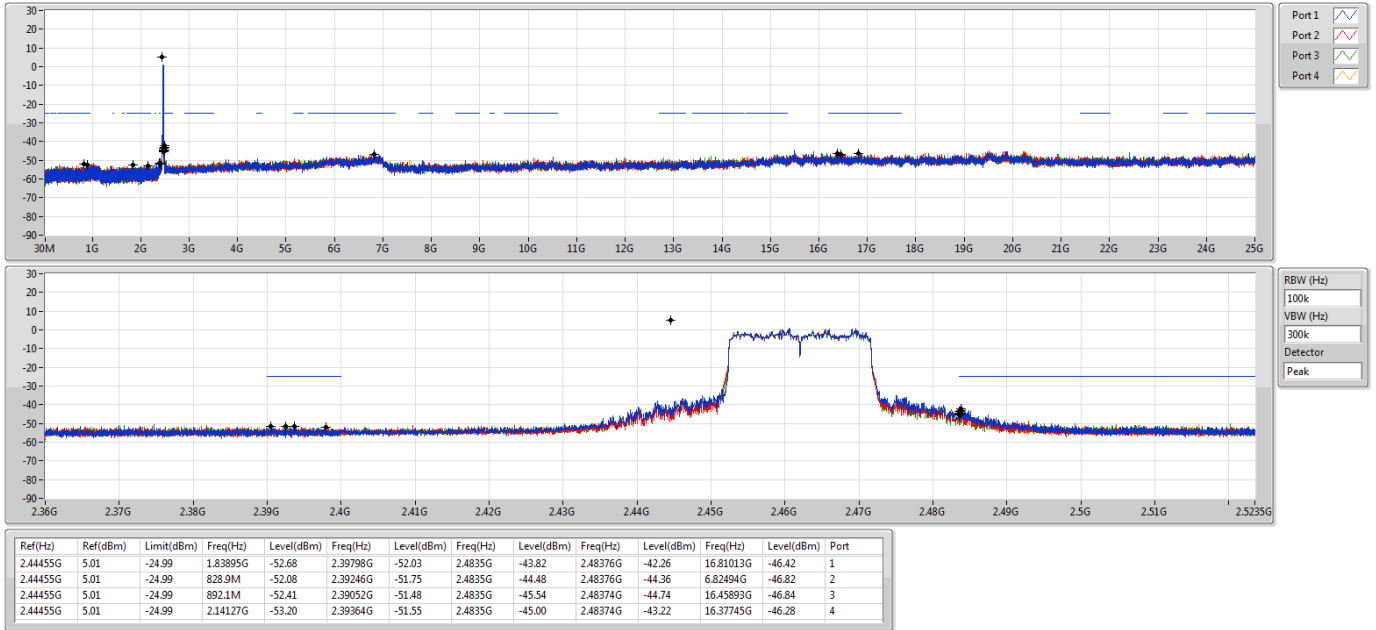
2437MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

CSE NdB

2462MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

CSE NdB

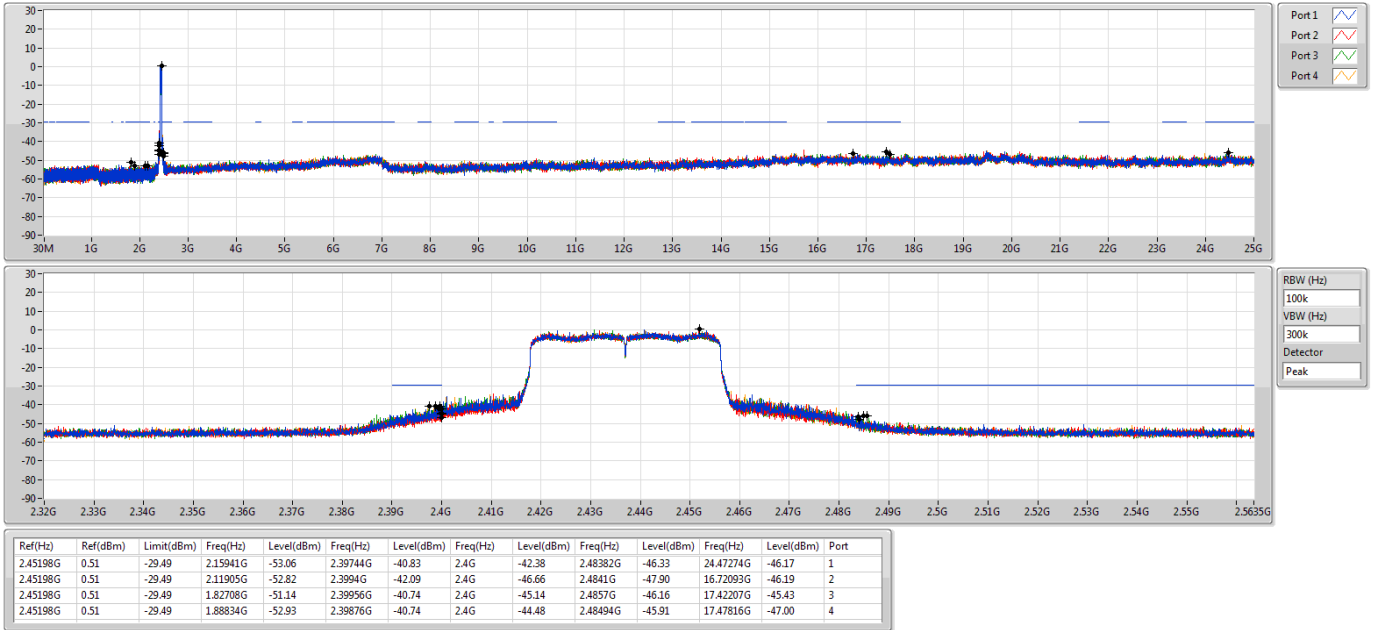
2422MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

CSE NdB

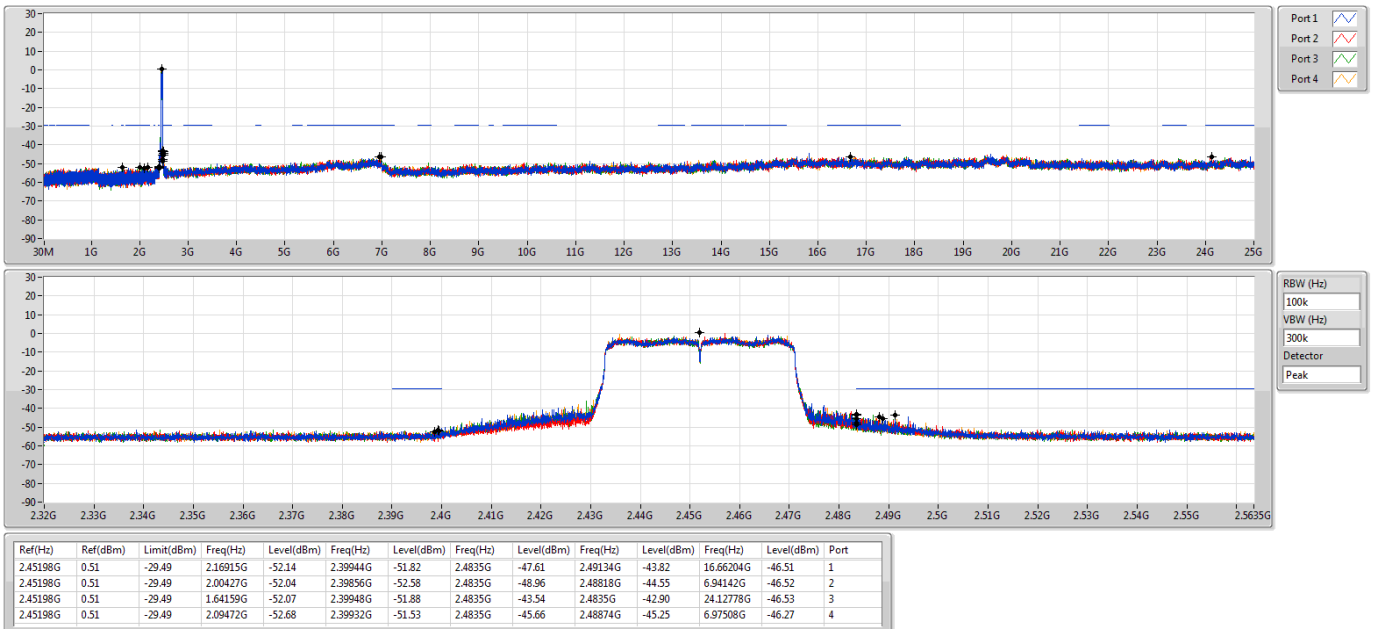
2437MHz



802.11ax HEW40_Nss1,(MCS0)_4TX

CSE NdB

2452MHz





For beamforming function:

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	Pass	2.4395G	9.66	-20.34	874.33M	-48.11	2.3944G	-28.39	2.4G	-42.47	2.4891G	-46.53	16.78765G	-41.33	2
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	2.44751G	4.45	-25.55	2.17201G	-48.19	2.39952G	-35.99	2.4G	-45.03	2.49306G	-41.13	24.25399G	-41.42	1

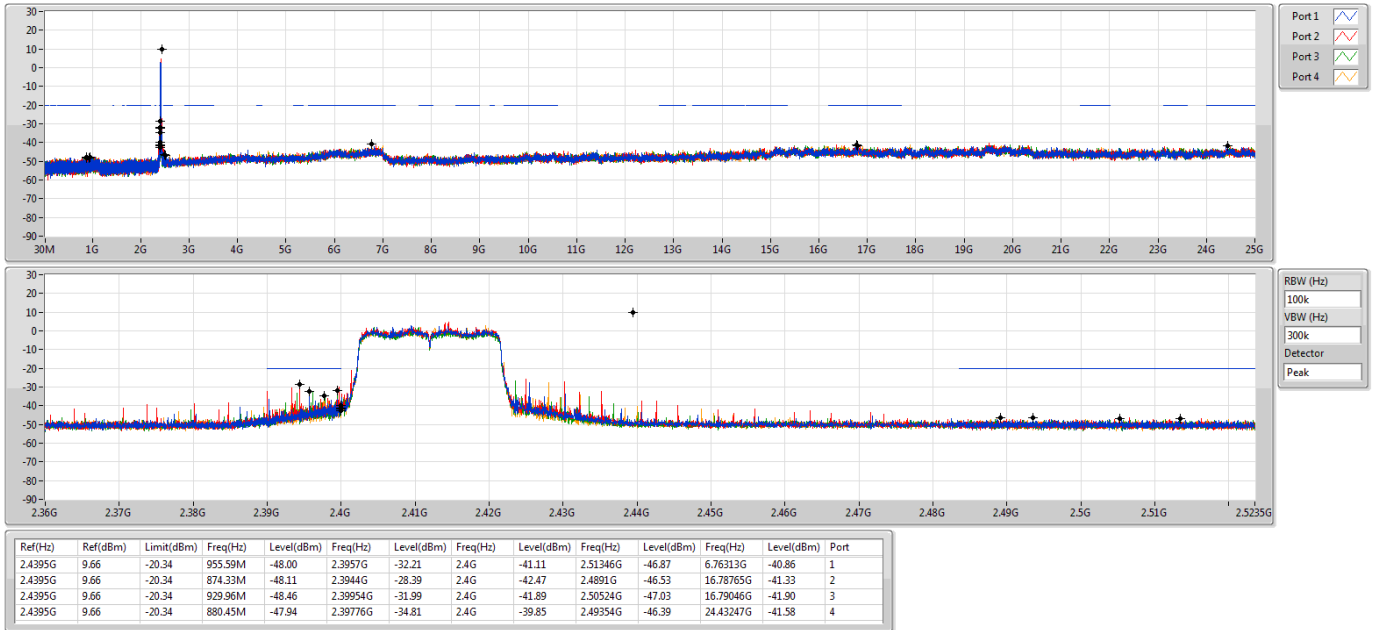
Result

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
802.11ax HEW20-BF_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4395G	9.66	-20.34	955.59M	-48.00	2.3957G	-32.21	2.4G	-41.11	2.51346G	-46.87	6.76313G	-40.86	1
2412MHz	Pass	2.4395G	9.66	-20.34	874.33M	-48.11	2.3944G	-28.39	2.4G	-42.47	2.4891G	-46.53	16.78765G	-41.33	2
2412MHz	Pass	2.4395G	9.66	-20.34	929.96M	-48.46	2.39954G	-31.99	2.4G	-41.89	2.50524G	-47.03	16.79046G	-41.90	3
2412MHz	Pass	2.4395G	9.66	-20.34	880.45M	-47.94	2.39776G	-34.81	2.4G	-39.85	2.49354G	-46.39	24.43247G	-41.58	4
2437MHz	Pass	2.4395G	9.66	-20.34	2.15001G	-47.50	2.39814G	-40.06	2.4G	-38.82	2.48532G	-39.12	24.56452G	-40.52	1
2437MHz	Pass	2.4395G	9.66	-20.34	2.18088G	-48.17	2.39522G	-37.30	2.4G	-43.62	2.49696G	-38.74	16.84103G	-41.09	2
2437MHz	Pass	2.4395G	9.66	-20.34	537.94M	-47.85	2.39828G	-39.86	2.4G	-44.70	2.49294G	-40.88	16.21169G	-41.51	3
2437MHz	Pass	2.4395G	9.66	-20.34	1.98429G	-48.00	2.39396G	-38.82	2.4G	-44.14	2.48438G	-39.98	17.51533G	-41.67	4
2462MHz	Pass	2.4395G	9.66	-20.34	1.71692G	-48.26	2.3943G	-47.11	2.4835G	-48.87	2.49104G	-41.63	16.51231G	-41.17	1
2462MHz	Pass	2.4395G	9.66	-20.34	851.91M	-47.74	2.39552G	-45.59	2.4835G	-48.52	2.48656G	-35.79	24.44371G	-41.31	2
2462MHz	Pass	2.4395G	9.66	-20.34	2.10836G	-47.94	2.39646G	-47.83	2.4835G	-41.67	2.4851G	-36.40	24.78928G	-40.66	3
2462MHz	Pass	2.4395G	9.66	-20.34	2.14273G	-47.23	2.39098G	-47.83	2.4835G	-49.19	2.4844G	-35.67	17.46194G	-41.24	4
802.11ax HEW40-BF_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44751G	4.45	-25.55	1.79988G	-47.35	2.39812G	-45.98	2.4G	-46.26	2.48546G	-44.84	16.77422G	-39.60	1
2422MHz	Pass	2.44751G	4.45	-25.55	2.09501G	-48.52	2.39164G	-40.63	2.4G	-49.20	2.50202G	-47.75	16.8247G	-40.84	2
2422MHz	Pass	2.44751G	4.45	-25.55	2.18346G	-48.47	2.39924G	-45.65	2.4G	-49.74	2.49738G	-47.71	16.73495G	-41.47	3
2422MHz	Pass	2.44751G	4.45	-25.55	1.94301G	-48.10	2.39888G	-39.24	2.4835G	-49.88	2.5523G	-47.09	15.12233G	-40.79	4
2437MHz	Pass	2.44751G	4.45	-25.55	2.17201G	-48.19	2.39952G	-35.99	2.4G	-45.03	2.49306G	-41.13	24.25399G	-41.42	1
2437MHz	Pass	2.44751G	4.45	-25.55	959.45M	-47.84	2.39148G	-36.46	2.4G	-47.03	2.48998G	-40.40	16.49937G	-41.30	2
2437MHz	Pass	2.44751G	4.45	-25.55	2.11734G	-47.90	2.3976G	-37.97	2.4G	-43.03	2.4851G	-42.03	16.80226G	-40.98	3
2437MHz	Pass	2.44751G	4.45	-25.55	2.14338G	-48.02	2.39752G	-38.42	2.4G	-48.23	2.48442G	-44.35	24.49237G	-41.74	4
2452MHz	Pass	2.44751G	4.45	-25.55	937.41M	-47.98	2.39296G	-47.54	2.4G	-46.92	2.49102G	-41.20	24.31849G	-41.08	1
2452MHz	Pass	2.44751G	4.45	-25.55	2.14567G	-47.44	2.39528G	-48.56	2.4835G	-49.58	2.48486G	-39.78	16.45169G	-42.34	2
2452MHz	Pass	2.44751G	4.45	-25.55	2.1597G	-47.30	2.3916G	-48.18	2.4835G	-50.27	2.49234G	-46.32	16.8247G	-41.53	3
2452MHz	Pass	2.44751G	4.45	-25.55	915.37M	-47.92	2.3902G	-49.20	2.4G	-51.71	2.48402G	-47.12	16.83031G	-41.53	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

CSE NdB

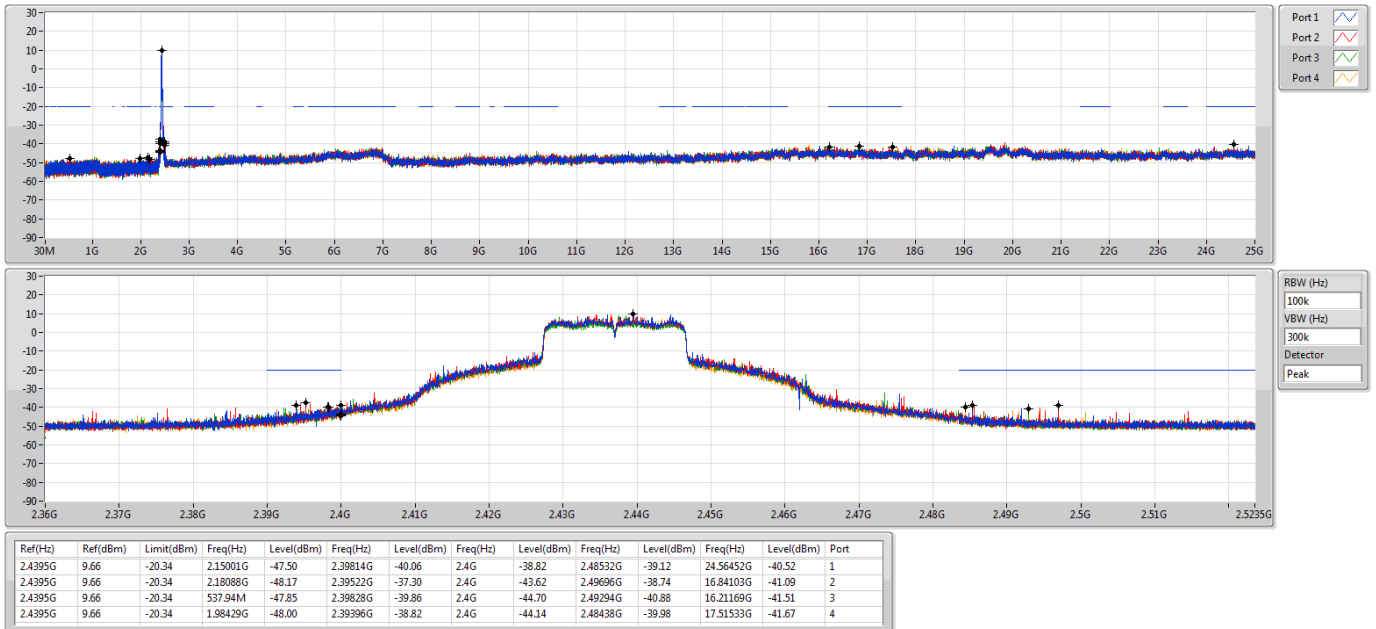
2412MHz



802.11ax HEW20-BF_Nss1,(MCS0)_4TX

CSE NdB

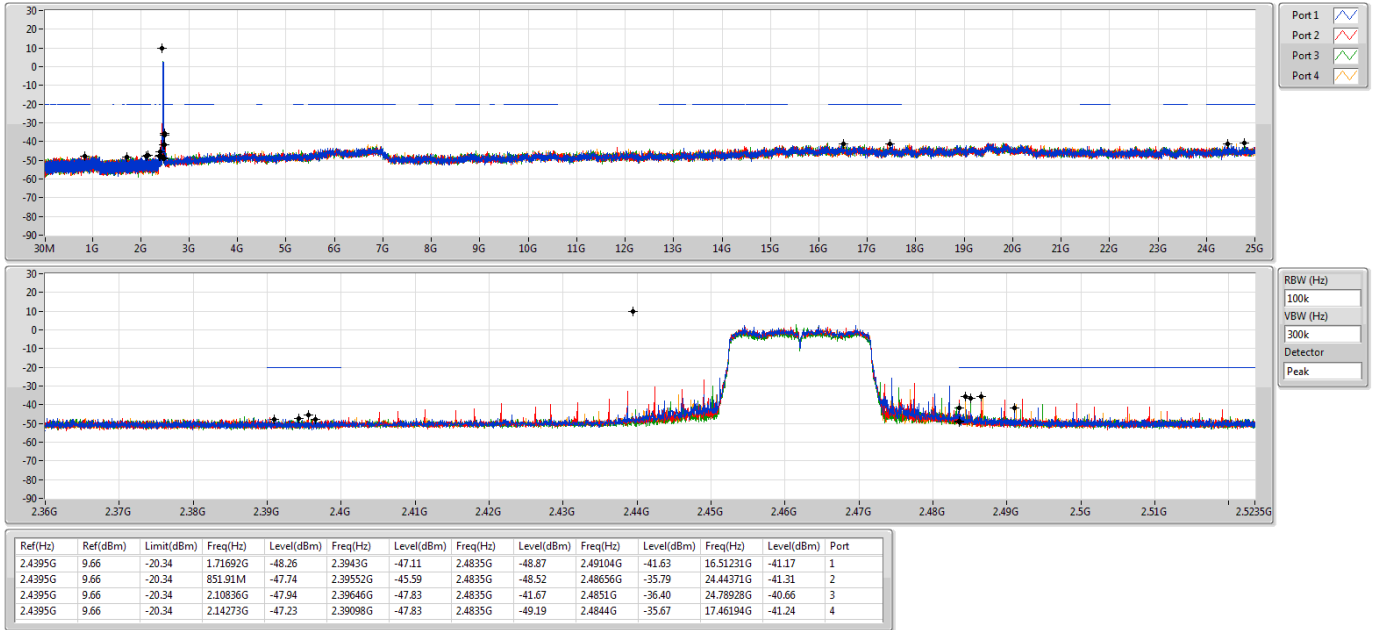
2437MHz



802.11ax HEW20-BF_Nss1,(MCS0)_4TX

CSE NdB

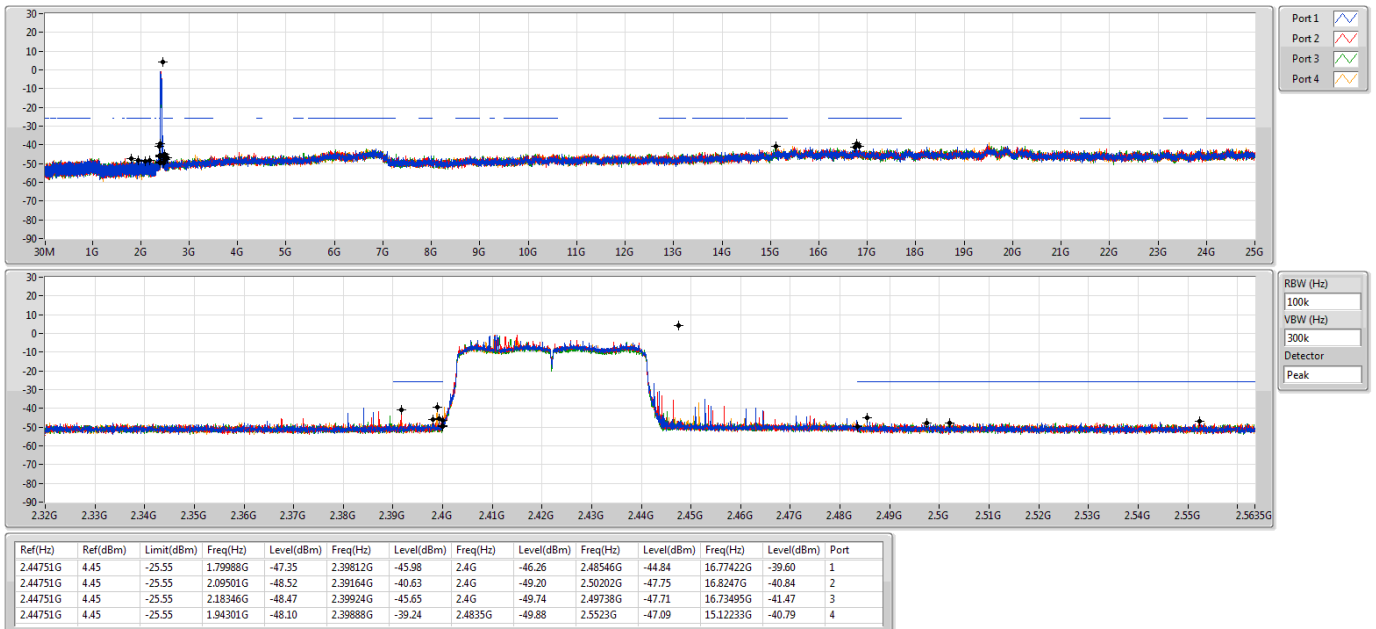
2462MHz



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

CSE NdB

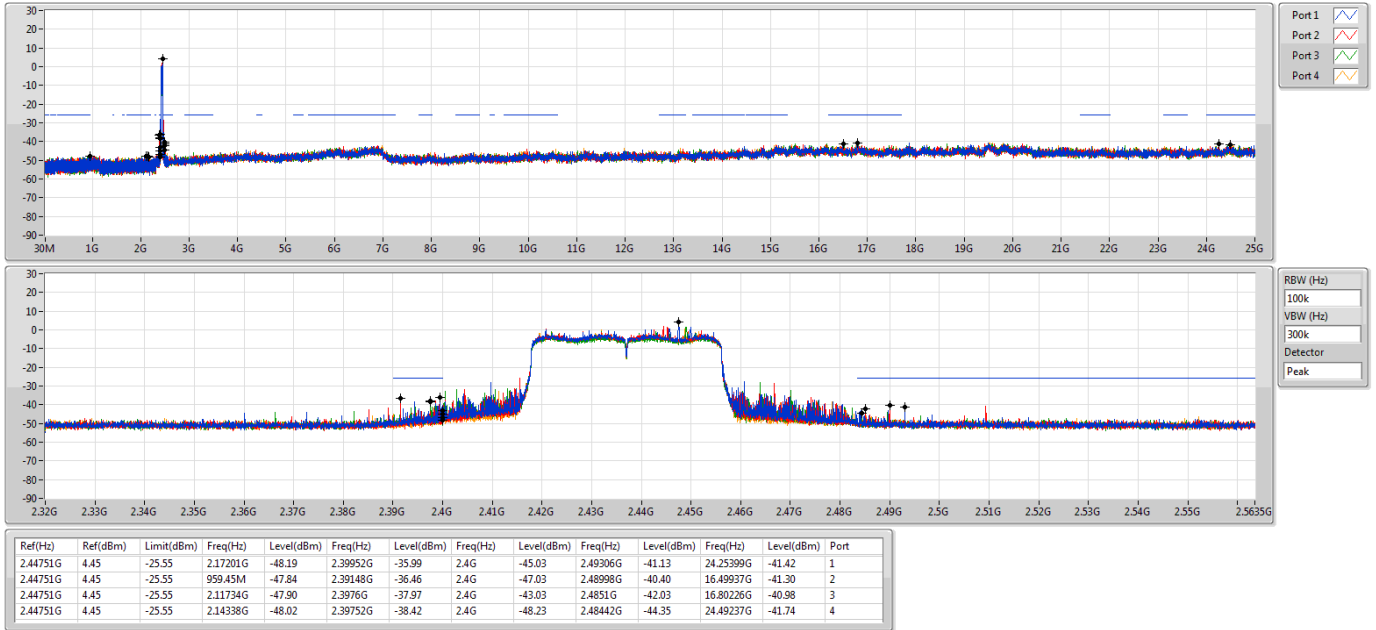
2422MHz



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

CSE NdB

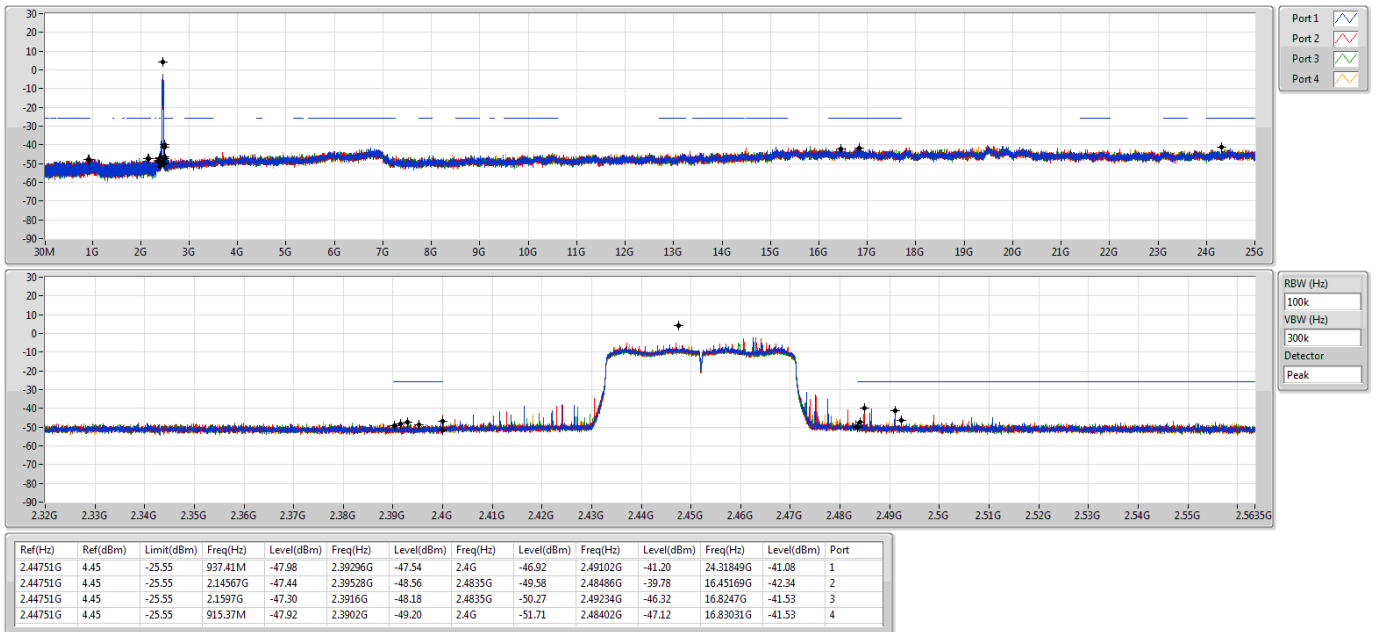
2437MHz



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

CSE NdB

2452MHz





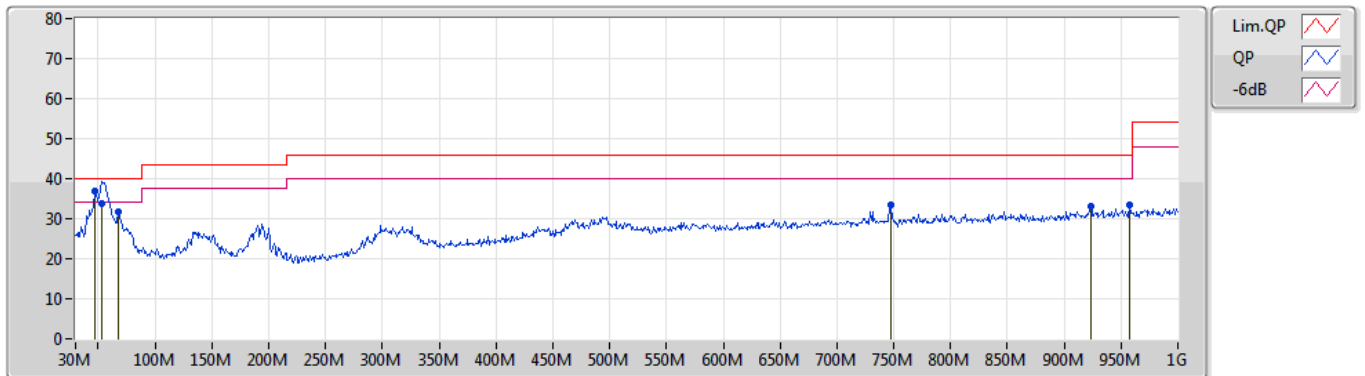
Radiated Emissions below 1GHz Result

Appendix F.1

Summary

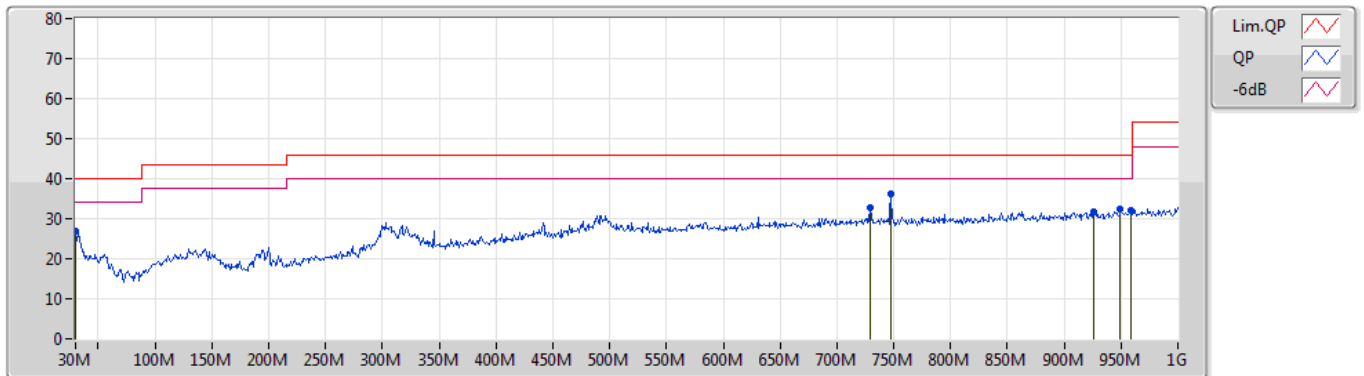
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	46.49M	36.94	40.00	-3.06	Vertical

26/05/2020



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	46.49M	36.94	40.00	-3.06	-16.55	3	Vertical	147	1.00	"Worst"	53.49	15.13	0.83	32.51
QP	53.28M	33.92	40.00	-6.08	-18.58	3	Vertical	147	1.00	-	52.50	13.00	0.90	32.48
PK	67.83M	31.64	40.00	-8.36	-19.18	3	Vertical	204	1.50	-	50.82	12.27	0.96	32.41
PK	747.8M	33.57	46.00	-12.43	-3.18	3	Vertical	332	2.00	-	36.75	25.75	3.30	32.23
PK	923.37M	33.19	46.00	-12.81	-1.11	3	Vertical	127	2.00	-	34.30	26.78	3.69	31.58
PK	957.32M	33.42	46.00	-12.58	-0.58	3	Vertical	356	3.00	-	34.00	26.96	3.80	31.34

27/05/2020



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	30M	27.06	40.00	-12.94	-7.55	3	Horizontal	261	1.50	-	34.61	24.10	0.70	32.35
PK	729.37M	32.78	46.00	-13.22	-3.39	3	Horizontal	203	1.25	-	36.17	25.66	3.26	32.31
PK	747.8M	36.13	46.00	-9.87	-3.18	3	Horizontal	360	1.50	"Worst"	39.31	25.75	3.30	32.23
PK	926.28M	31.87	46.00	-14.13	-1.06	3	Horizontal	201	1.50	-	32.93	26.80	3.71	31.57
PK	949.56M	32.45	46.00	-13.55	-0.73	3	Horizontal	42	1.50	-	33.18	26.91	3.80	31.44
PK	959.26M	31.98	46.00	-14.02	-0.55	3	Horizontal	308	2.00	-	32.53	26.97	3.80	31.32



For non-beamforming function:

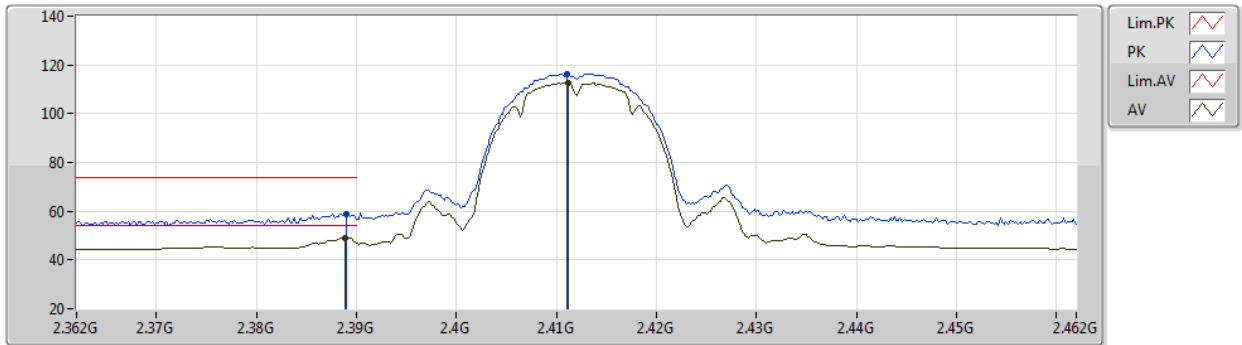
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1_(6Mbps)_4TX	Pass	AV	2.39G	53.95	54.00	-0.05	3	Vertical	24	2.49	-

802.11b_Nss1,(1Mbps)_4TX

11/06/2020

2412MHz_TX



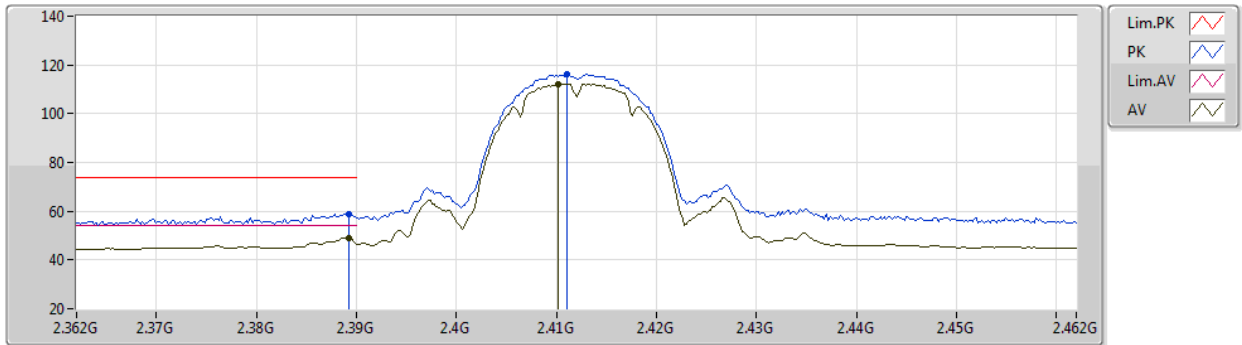
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	58.91	74.00	-15.09	27.29	3	Vertical	160	2.48	-	27.63	3.99	-
AV	2.3888G	49.18	54.00	-4.82	17.56	3	Vertical	160	2.48	-	27.63	3.99	-
PK	2.411G	116.42	Inf	-Inf	84.84	3	Vertical	160	2.48	-	27.57	4.01	-
AV	2.4112G	112.51	Inf	-Inf	80.93	3	Vertical	160	2.48	-	27.57	4.01	-

802.11b_Nss1,(1Mbps)_4TX

11/06/2020

2412MHz_TX



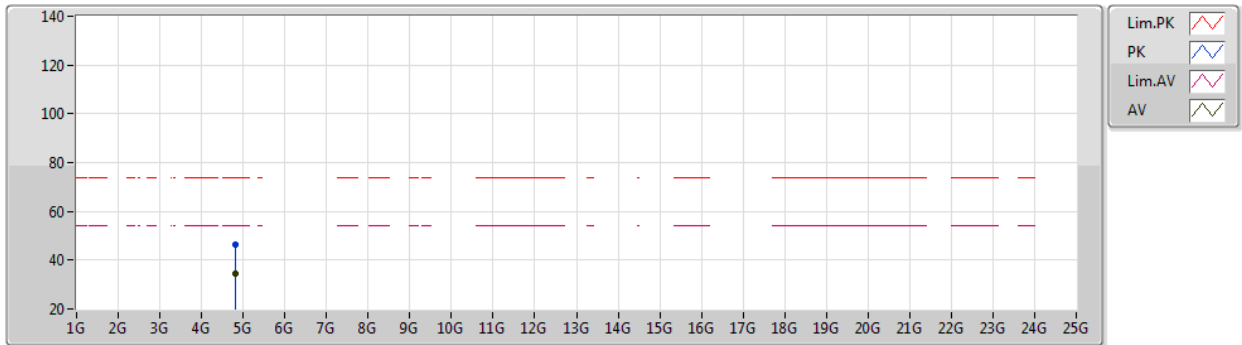
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	59.04	74.00	-14.96	27.42	3	Horizontal	198	1.29	-	27.63	3.99	-
AV	2.3892G	49.05	54.00	-4.95	17.43	3	Horizontal	198	1.29	-	27.63	3.99	-
PK	2.411G	116.11	Inf	-Inf	84.53	3	Horizontal	198	1.29	-	27.57	4.01	-
AV	2.4102G	112.20	Inf	-Inf	80.62	3	Horizontal	198	1.29	-	27.57	4.01	-

802.11b_Nss1,(1Mbps)_4TX

11/06/2020

2412MHz_TX



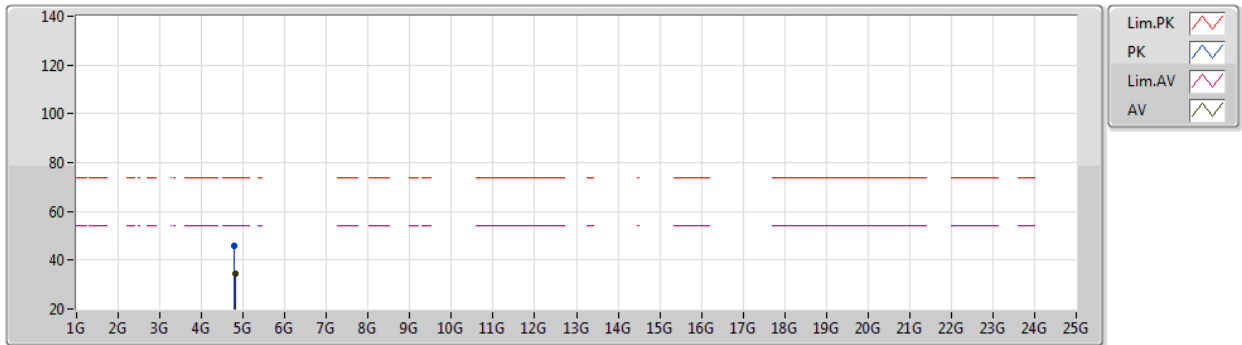
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82368G	46.28	74.00	-27.72	41.60	3	Vertical	171	2.92	-	31.02	5.33	31.67
AV	4.82402G	34.38	54.00	-19.62	29.70	3	Vertical	171	2.92	-	31.02	5.33	31.67

802.11b_Nss1,(1Mbps)_4TX

11/06/2020

2412MHz_TX



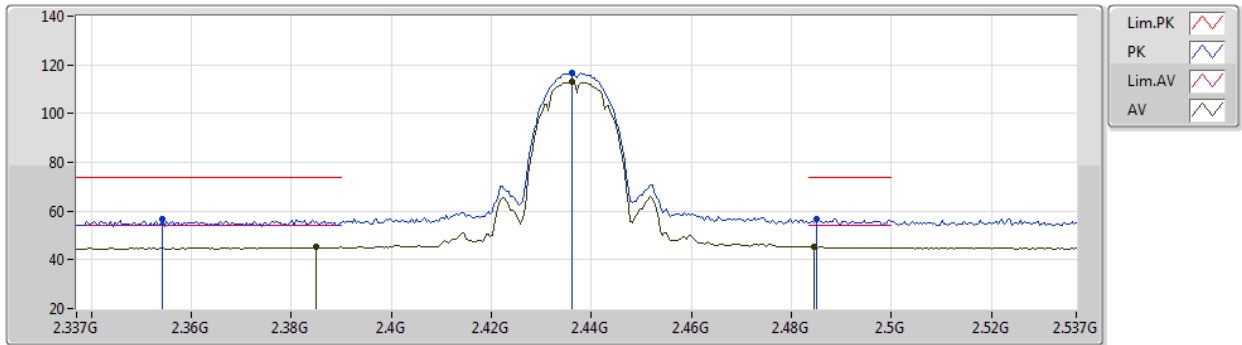
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Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.7866G	45.86	74.00	-28.14	41.24	3	Horizontal	204	1.58	-	31.00	5.31	31.69
AV	4.824G	34.46	54.00	-19.54	29.78	3	Horizontal	204	1.58	-	31.02	5.33	31.67

802.11b_Nss1,(1Mbps)_4TX

11/06/2020

2437MHz_TX



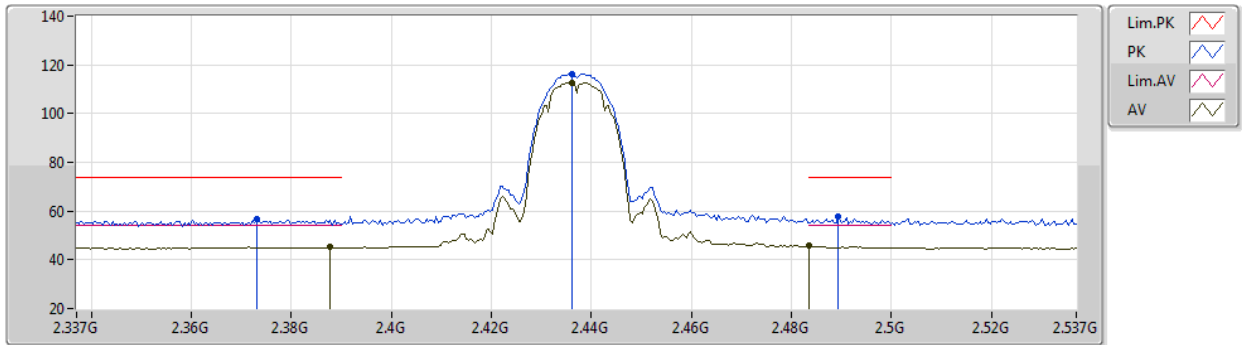
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3542G	56.54	74.00	-17.46	24.82	3	Vertical	157	2.21	-	27.74	3.98	-
AV	2.385G	45.14	54.00	-8.86	13.51	3	Vertical	157	2.21	-	27.64	3.99	-
PK	2.4362G	116.61	Inf	-Inf	85.10	3	Vertical	157	2.21	-	27.49	4.02	-
AV	2.4362G	112.90	Inf	-Inf	81.39	3	Vertical	157	2.21	-	27.49	4.02	-
PK	2.485G	56.84	74.00	-17.16	25.46	3	Vertical	157	2.21	-	27.34	4.04	-
AV	2.4846G	45.48	54.00	-8.52	14.09	3	Vertical	157	2.21	-	27.35	4.04	-

802.11b_Nss1,(1Mbps)_4TX

11/06/2020

2437MHz_TX



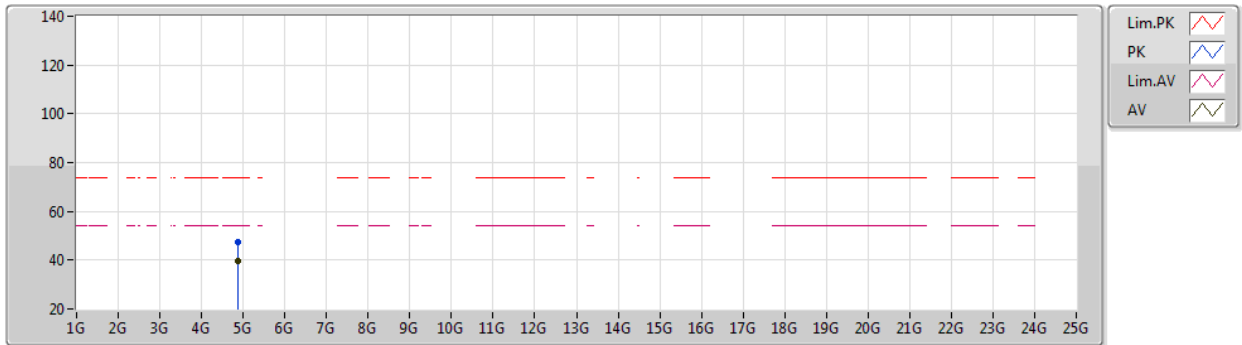
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.373G	56.86	74.00	-17.14	25.19	3	Horizontal	197	1.25	-	27.68	3.99	-
AV	2.3878G	45.11	54.00	-8.89	13.48	3	Horizontal	197	1.25	-	27.64	3.99	-
PK	2.4362G	116.29	Inf	-Inf	84.78	3	Horizontal	197	1.25	-	27.49	4.02	-
AV	2.4362G	112.53	Inf	-Inf	81.02	3	Horizontal	197	1.25	-	27.49	4.02	-
PK	2.4894G	57.57	74.00	-16.43	26.20	3	Horizontal	197	1.25	-	27.33	4.04	-
AV	2.4835G	45.67	54.00	-8.33	14.28	3	Horizontal	197	1.25	-	27.35	4.04	-

802.11b_Nss1,(1Mbps)_4TX

11/06/2020

2437MHz_TX



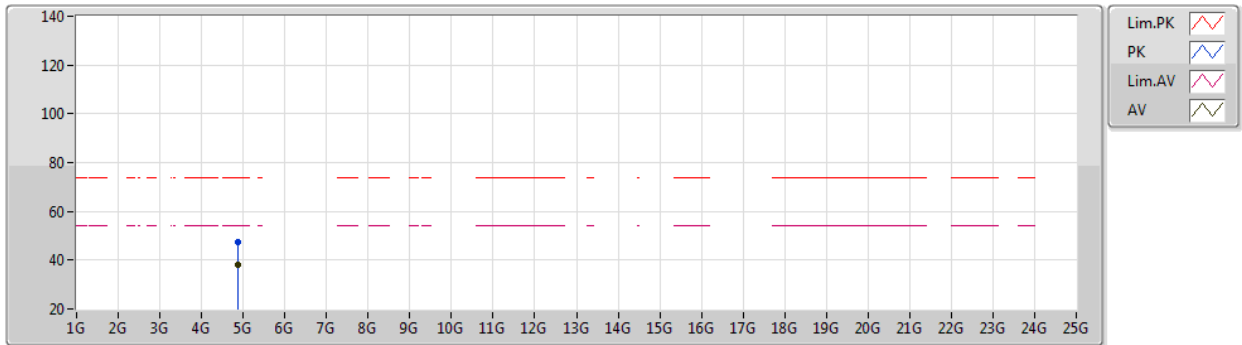
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87396G	47.19	74.00	-26.81	42.36	3	Vertical	171	1.63	-	31.07	5.40	31.64
AV	4.87406G	39.58	54.00	-14.42	34.75	3	Vertical	171	1.63	-	31.07	5.40	31.64

802.11b_Nss1,(1Mbps)_4TX

11/06/2020

2437MHz_TX



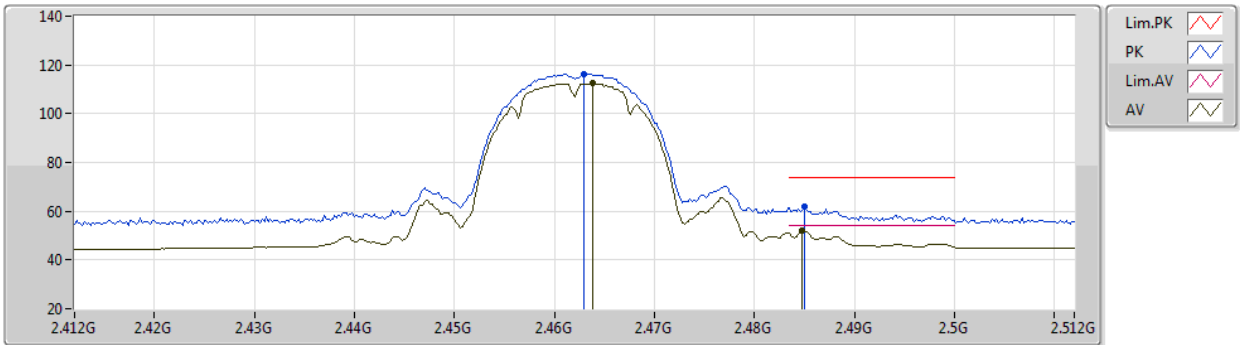
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Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8741G	47.45	74.00	-26.55	42.62	3	Horizontal	202	1.39	-	31.07	5.40	31.64
AV	4.87408G	38.32	54.00	-15.68	33.49	3	Horizontal	202	1.39	-	31.07	5.40	31.64

802.11b_Nss1,(1Mbps)_4TX

11/06/2020

2462MHz_TX



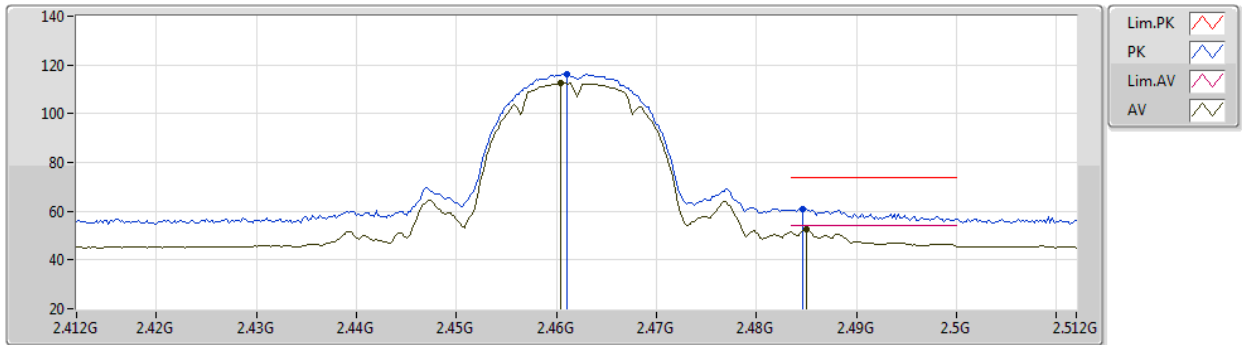
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Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	116.37	Inf	-Inf	84.93	3	Vertical	160	1.51	-	27.41	4.03	-
AV	2.4638G	112.50	Inf	-Inf	81.06	3	Vertical	160	1.51	-	27.41	4.03	-
PK	2.485G	61.67	74.00	-12.33	30.29	3	Vertical	160	1.51	-	27.34	4.04	-
AV	2.4848G	51.93	54.00	-2.07	20.54	3	Vertical	160	1.51	-	27.35	4.04	-

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

11/06/2020



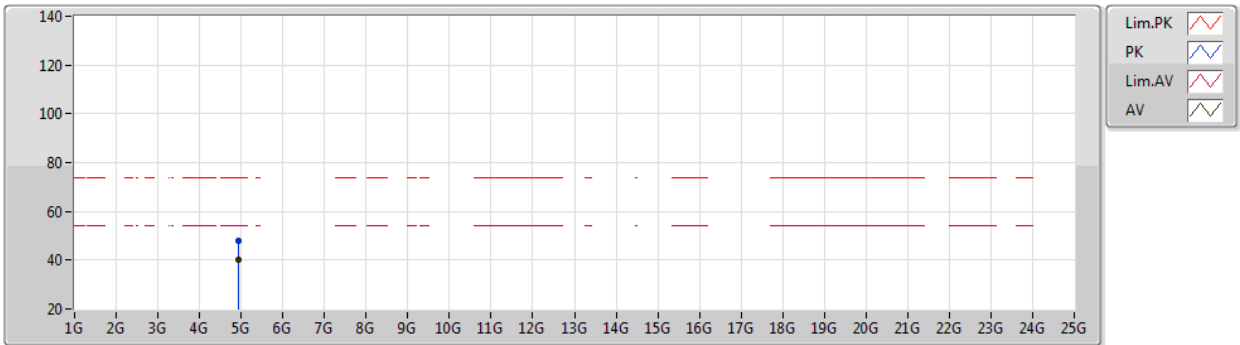
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Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.461G	116.17	Inf	-Inf	84.72	3	Horizontal	194	1.07	-	27.42	4.03	-
AV	2.4604G	112.46	Inf	-Inf	81.01	3	Horizontal	194	1.07	-	27.42	4.03	-
PK	2.4846G	60.96	74.00	-13.04	29.57	3	Horizontal	194	1.07	-	27.35	4.04	-
AV	2.485G	52.53	54.00	-1.47	21.15	3	Horizontal	194	1.07	-	27.34	4.04	-

802.11b_Nss1,(1Mbps)_4TX

11/06/2020

2462MHz_TX



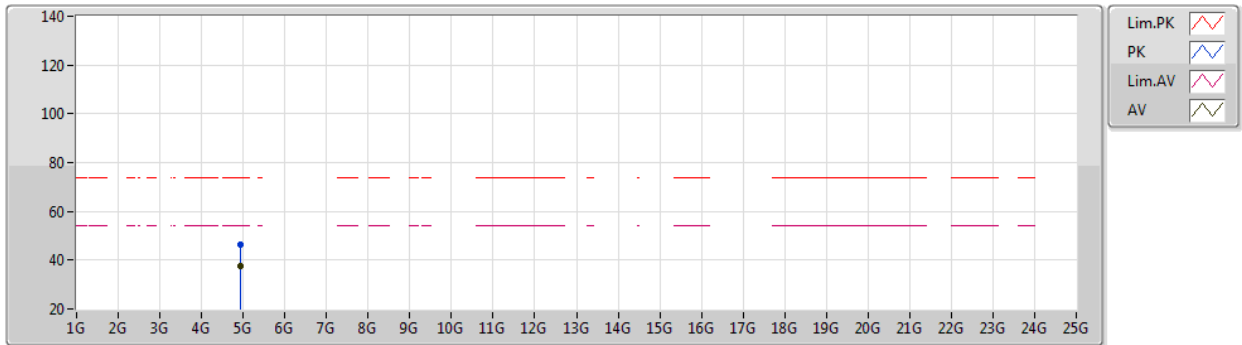
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Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92394G	47.96	74.00	-26.04	42.89	3	Vertical	175	1.70	-	31.20	5.48	31.61
AV	4.924G	40.22	54.00	-13.78	35.15	3	Vertical	175	1.70	-	31.20	5.48	31.61

802.11b_Nss1,(1Mbps)_4TX

11/06/2020

2462MHz_TX



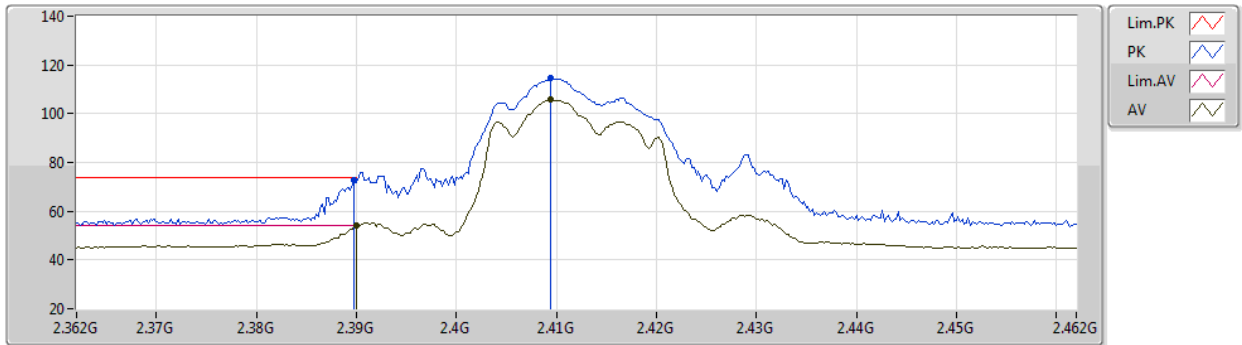
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9239G	46.52	74.00	-27.48	41.45	3	Horizontal	200	2.88	-	31.20	5.48	31.61
AV	4.92402G	37.71	54.00	-16.29	32.64	3	Horizontal	200	2.88	-	31.20	5.48	31.61

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2412MHz_TX



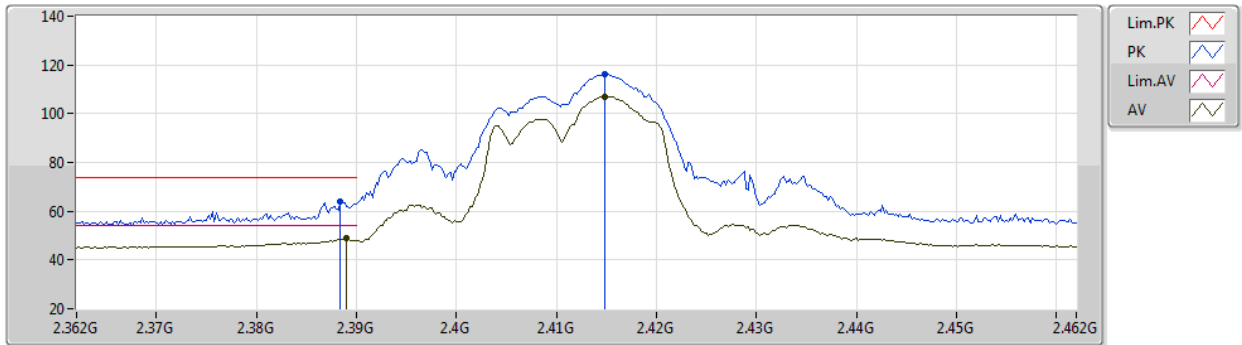
EUT Y_4TX
Setting 16
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	72.75	74.00	-1.25	41.13	3	Vertical	24	2.49	-	27.63	3.99	-
AV	2.39G	53.95	54.00	-0.05	22.32	3	Vertical	24	2.49	-	27.63	4.00	-
PK	2.4094G	114.42	Inf	-Inf	82.85	3	Vertical	24	2.49	-	27.57	4.00	-
AV	2.4094G	105.63	Inf	-Inf	74.06	3	Vertical	24	2.49	-	27.57	4.00	-

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2412MHz_TX



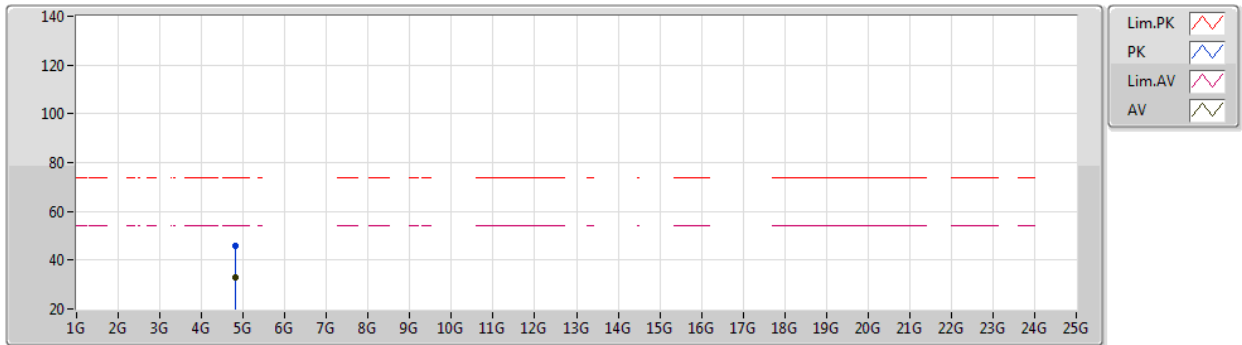
EUT Y_4TX
Setting 16
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	63.72	74.00	-10.28	32.10	3	Horizontal	297	1.40	-	27.63	3.99	-
AV	2.389G	48.80	54.00	-5.20	17.18	3	Horizontal	297	1.40	-	27.63	3.99	-
PK	2.4148G	116.11	Inf	-Inf	84.54	3	Horizontal	297	1.40	-	27.56	4.01	-
AV	2.4148G	107.15	Inf	-Inf	75.58	3	Horizontal	297	1.40	-	27.56	4.01	-

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2412MHz_TX



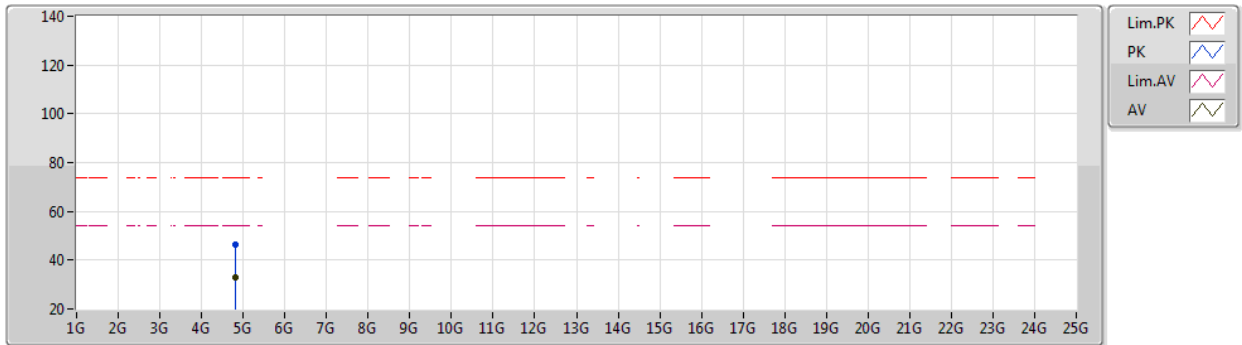
EUT Y_4TX
Setting 16
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.81946G	45.96	74.00	-28.04	41.28	3	Vertical	310	1.80	-	31.02	5.33	31.67	
AV	4.82326G	32.99	54.00	-21.01	28.31	3	Vertical	310	1.80	-	31.02	5.33	31.67	

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2412MHz_TX



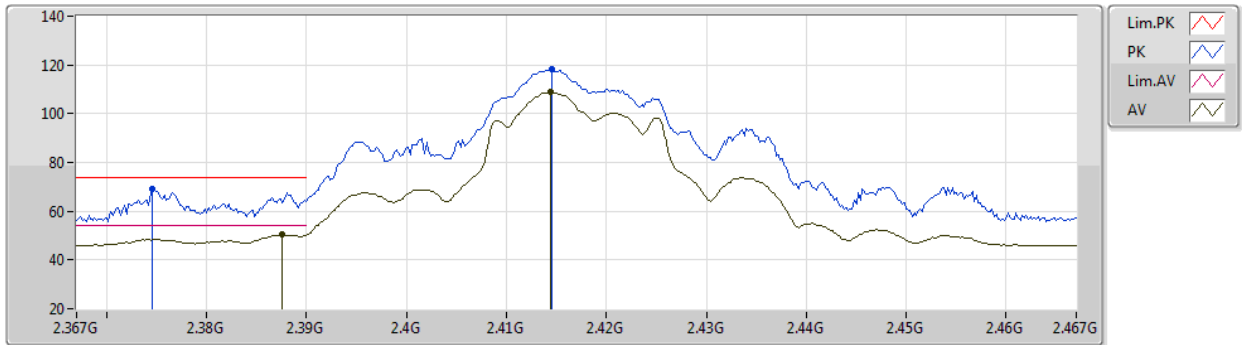
EUT Y_4TX
Setting 16
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82002G	46.54	74.00	-27.46	41.86	3	Horizontal	121	2.06	-	31.02	5.33	31.67
AV	4.81984G	32.88	54.00	-21.12	28.20	3	Horizontal	121	2.06	-	31.02	5.33	31.67

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2417MHz_TX



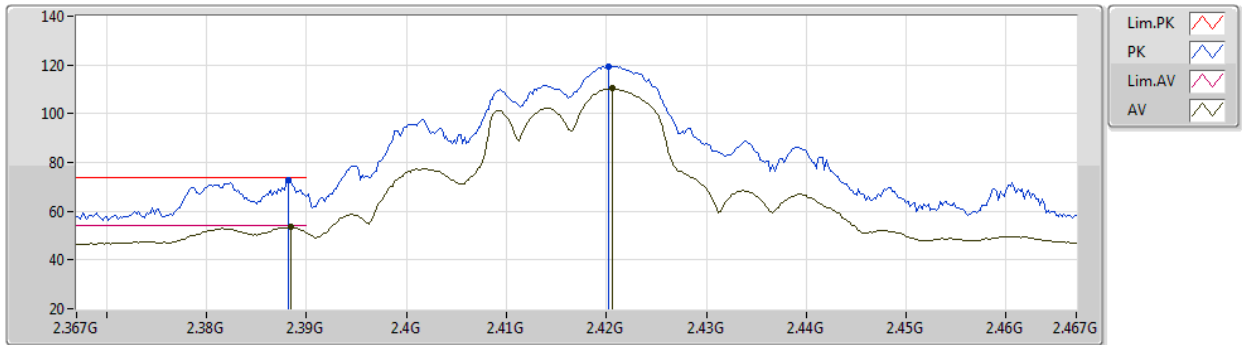
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3746G	69.18	74.00	-4.82	37.51	3	Vertical	198	2.42	-	27.68	3.99	-
AV	2.3876G	50.29	54.00	-3.71	18.66	3	Vertical	198	2.42	-	27.64	3.99	-
PK	2.4146G	118.34	Inf	-Inf	86.77	3	Vertical	198	2.42	-	27.56	4.01	-
AV	2.4144G	108.85	Inf	-Inf	77.28	3	Vertical	198	2.42	-	27.56	4.01	-

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2417MHz_TX



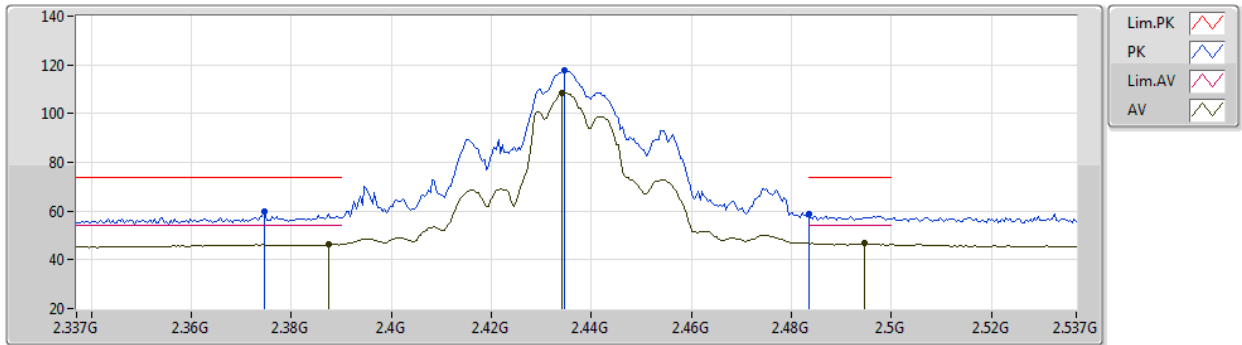
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	72.75	74.00	-1.25	41.12	3	Horizontal	119	1.44	-	27.64	3.99	-
AV	2.3884G	53.45	54.00	-0.55	21.83	3	Horizontal	119	1.44	-	27.63	3.99	-
PK	2.4202G	119.46	Inf	-Inf	87.91	3	Horizontal	119	1.44	-	27.54	4.01	-
AV	2.4206G	110.44	Inf	-Inf	78.89	3	Horizontal	119	1.44	-	27.54	4.01	-

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2437MHz_TX



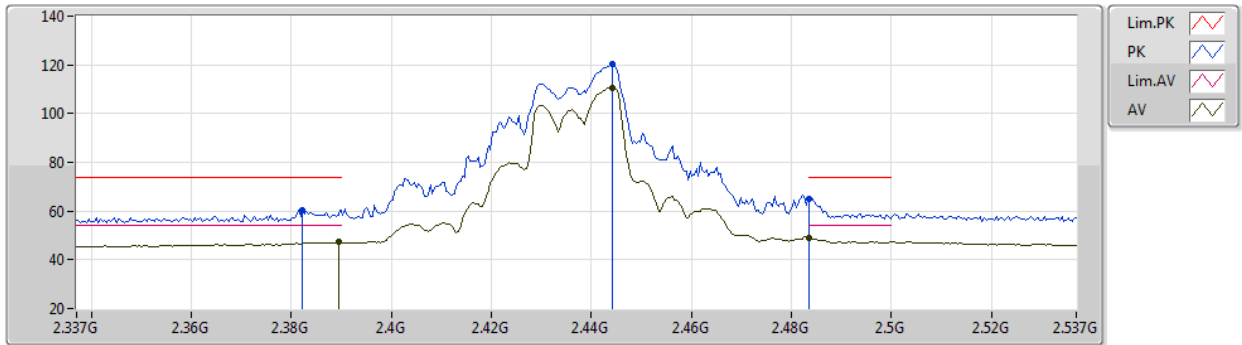
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Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3746G	59.83	74.00	-14.17	28.16	3	Vertical	199	2.27	-	27.68	3.99	-
AV	2.3874G	46.41	54.00	-7.59	14.78	3	Vertical	199	2.27	-	27.64	3.99	-
PK	2.4346G	117.55	Inf	-Inf	86.03	3	Vertical	199	2.27	-	27.50	4.02	-
AV	2.4342G	108.54	Inf	-Inf	77.02	3	Vertical	199	2.27	-	27.50	4.02	-
PK	2.4835G	58.87	74.00	-15.13	27.48	3	Vertical	199	2.27	-	27.35	4.04	-
AV	2.4946G	46.78	54.00	-7.22	15.41	3	Vertical	199	2.27	-	27.32	4.05	-

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2437MHz_TX



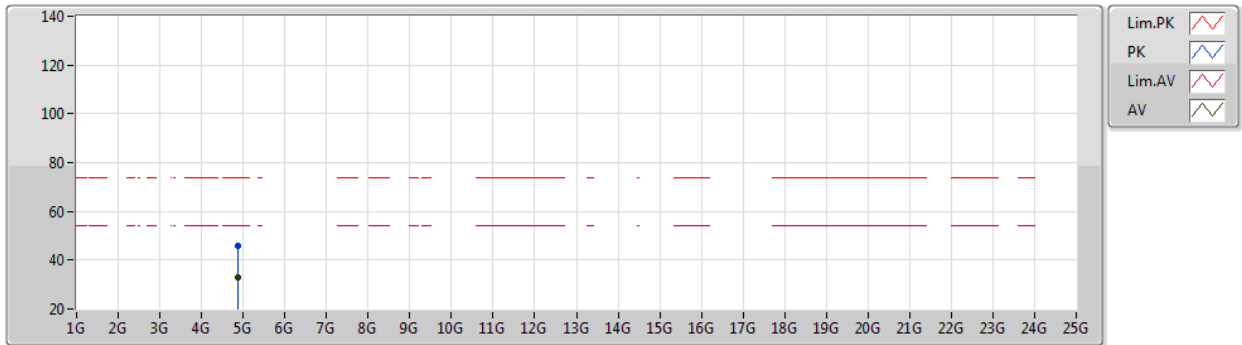
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3822G	60.46	74.00	-13.54	28.82	3	Horizontal	125	2.05	-	27.65	3.99	-
AV	2.3894G	47.16	54.00	-6.84	15.54	3	Horizontal	125	2.05	-	27.63	3.99	-
PK	2.4442G	120.38	Inf	-Inf	88.89	3	Horizontal	125	2.05	-	27.47	4.02	-
AV	2.4442G	110.77	Inf	-Inf	79.28	3	Horizontal	125	2.05	-	27.47	4.02	-
PK	2.4835G	65.04	74.00	-8.96	33.65	3	Horizontal	125	2.05	-	27.35	4.04	-
AV	2.4835G	48.74	54.00	-5.26	17.35	3	Horizontal	125	2.05	-	27.35	4.04	-

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2437MHz_TX



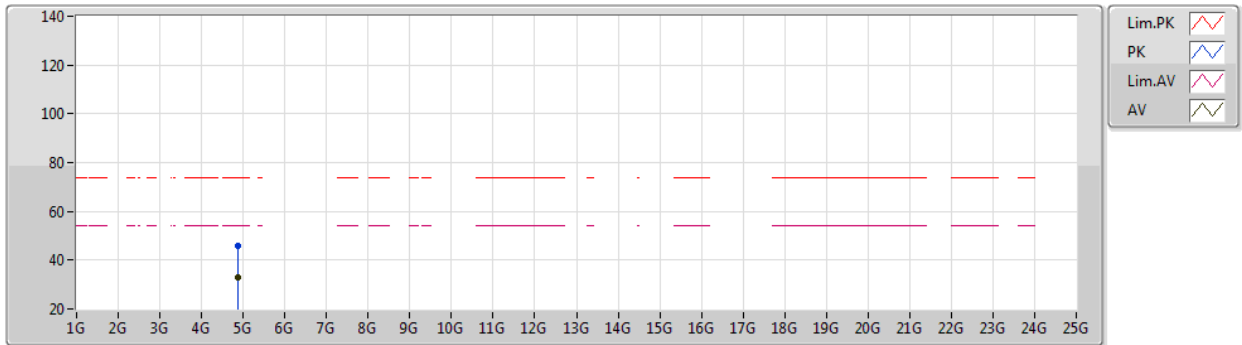
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Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8698G	45.76	74.00	-28.24	40.93	3	Vertical	172	3.00	-	31.07	5.40	31.64
AV	4.86914G	32.73	54.00	-21.27	27.90	3	Vertical	172	3.00	-	31.07	5.40	31.64

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2437MHz_TX



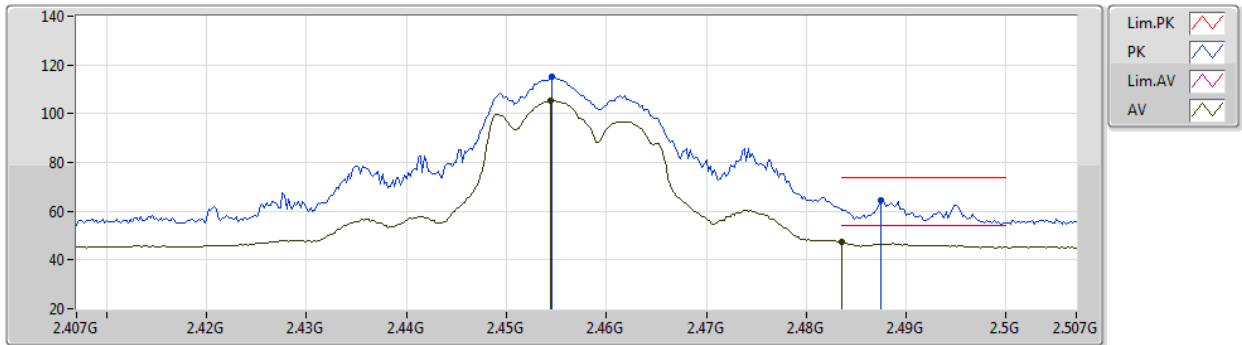
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Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8697G	45.83	74.00	-28.17	41.00	3	Horizontal	185	1.80	-	31.07	5.40	31.64
AV	4.86934G	33.06	54.00	-20.94	28.23	3	Horizontal	185	1.80	-	31.07	5.40	31.64

802.11g_Nss1,(6Mbps)_4TX

2457MHz_TX

11/06/2020



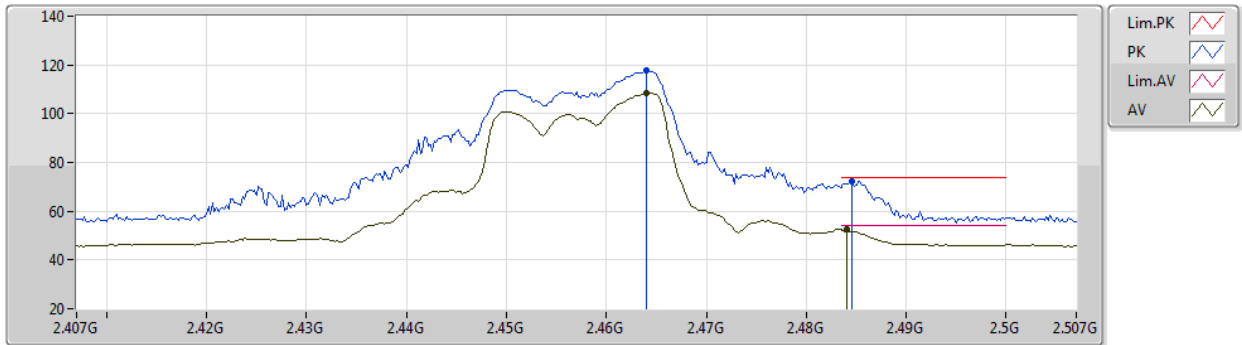
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Setting 17
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4546G	114.92	Inf	-Inf	83.45	3	Vertical	197	1.99	-	27.44	4.03	-
AV	2.4544G	105.47	Inf	-Inf	74.00	3	Vertical	197	1.99	-	27.44	4.03	-
PK	2.4874G	64.56	74.00	-9.44	33.18	3	Vertical	197	1.99	-	27.34	4.04	-
AV	2.4835G	47.57	54.00	-6.43	16.18	3	Vertical	197	1.99	-	27.35	4.04	-

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2457MHz_TX



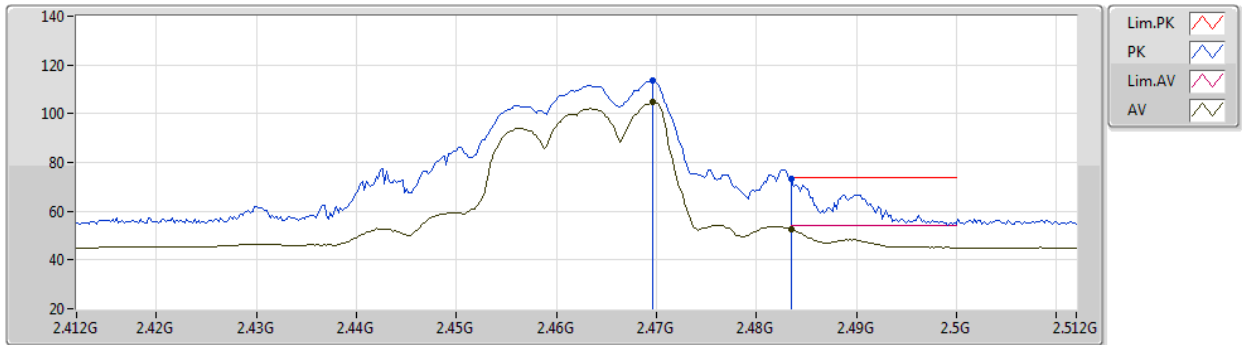
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Setting 17
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.464G	117.81	Inf	-Inf	86.37	3	Horizontal	122	2.03	-	27.41	4.03	-
AV	2.464G	108.40	Inf	-Inf	76.96	3	Horizontal	122	2.03	-	27.41	4.03	-
PK	2.484G	72.38	74.00	-1.62	40.99	3	Horizontal	122	2.03	-	27.35	4.04	-
AV	2.484G	52.53	54.00	-1.47	21.14	3	Horizontal	122	2.03	-	27.35	4.04	-

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2462MHz_TX



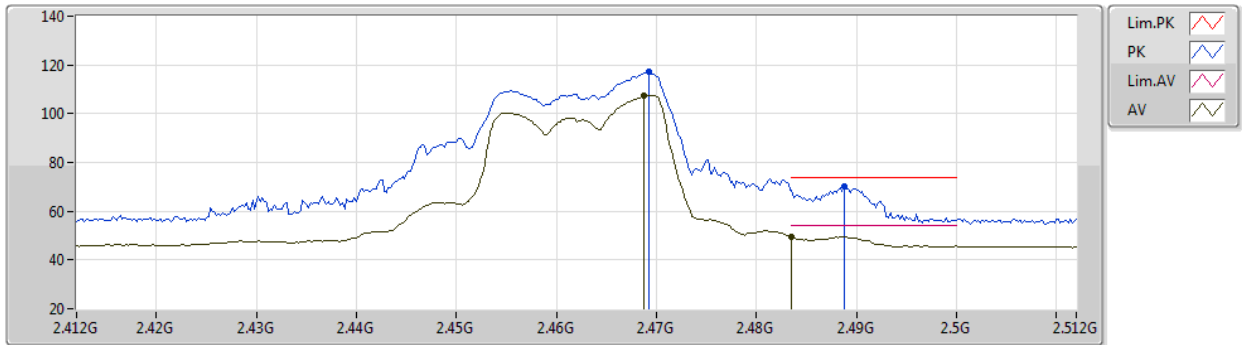
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Setting 16
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4696G	113.46	Inf	-Inf	82.04	3	Vertical	170	1.70	-	27.39	4.03	-
AV	2.4696G	104.64	Inf	-Inf	73.22	3	Vertical	170	1.70	-	27.39	4.03	-
PK	2.4835G	73.04	74.00	-0.96	41.65	3	Vertical	170	1.70	-	27.35	4.04	-
AV	2.4835G	52.70	54.00	-1.30	21.31	3	Vertical	170	1.70	-	27.35	4.04	-

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2462MHz_TX



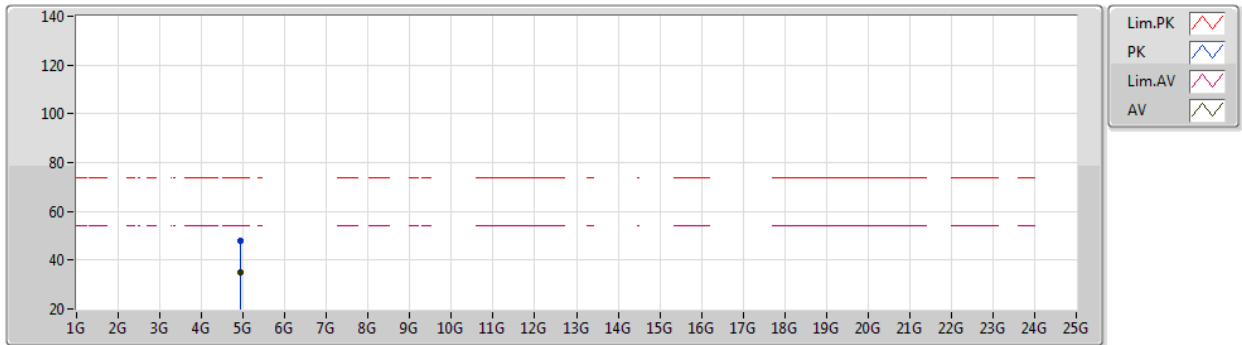
EUT Y_4TX
Setting 16
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4692G	117.01	Inf	-Inf	85.59	3	Horizontal	124	2.01	-	27.39	4.03	-
AV	2.4688G	107.54	Inf	-Inf	76.12	3	Horizontal	124	2.01	-	27.39	4.03	-
PK	2.4888G	70.11	74.00	-3.89	38.74	3	Horizontal	124	2.01	-	27.33	4.04	-
AV	2.4835G	49.66	54.00	-4.34	18.27	3	Horizontal	124	2.01	-	27.35	4.04	-

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2462MHz_TX



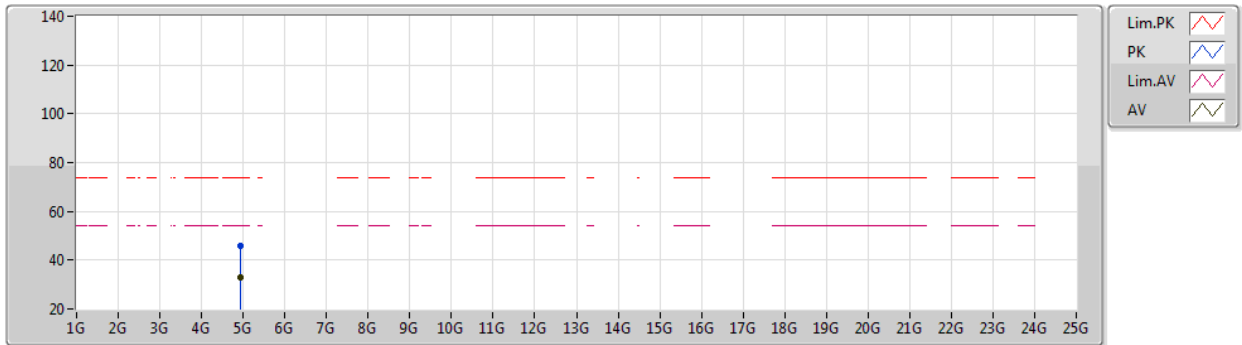
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Setting 16
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91976G	47.83	74.00	-26.17	42.79	3	Vertical	188	1.43	-	31.18	5.47	31.61
AV	4.91972G	34.90	54.00	-19.10	29.86	3	Vertical	188	1.43	-	31.18	5.47	31.61

802.11g_Nss1,(6Mbps)_4TX

11/06/2020

2462MHz_TX



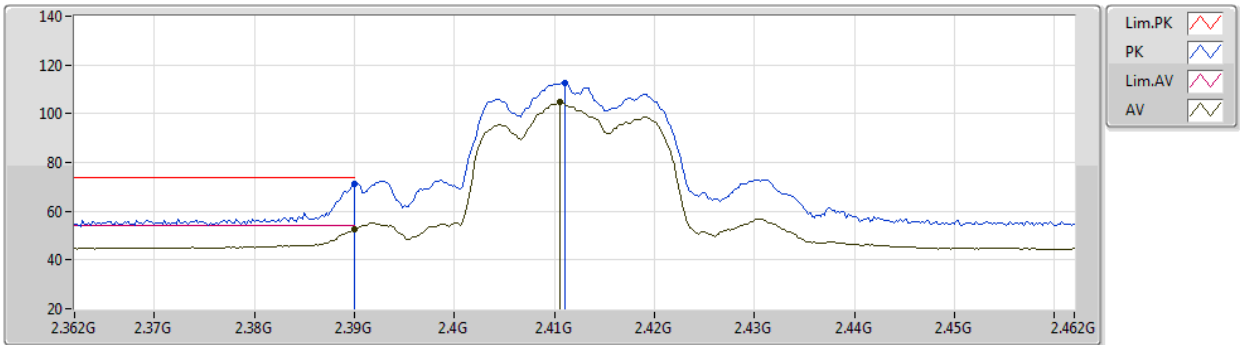
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Setting 16
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92382G	45.82	74.00	-28.18	40.75	3	Horizontal	188	1.23	-	31.20	5.48	31.61
AV	4.91982G	33.16	54.00	-20.84	28.12	3	Horizontal	188	1.23	-	31.18	5.47	31.61

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2412MHz_TX



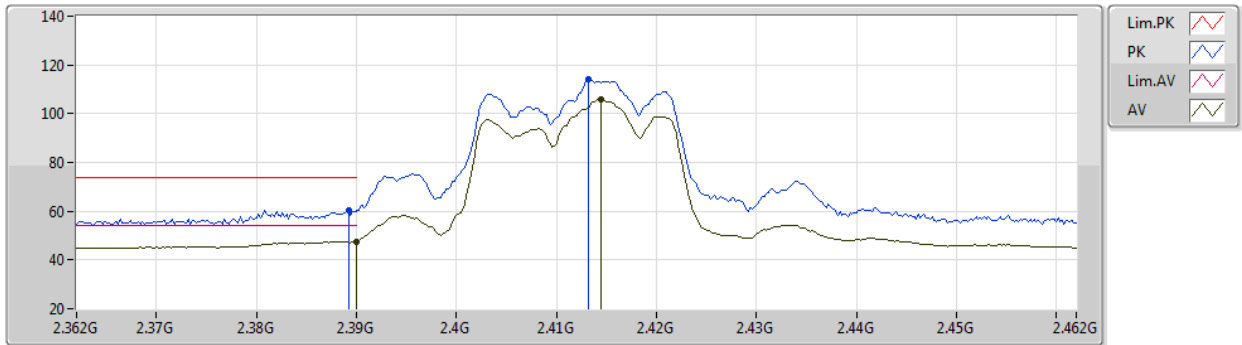
EUT Y_4TX
Setting 15
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	71.17	74.00	-2.83	39.54	3	Vertical	156	2.47	-	27.63	4.00	-
AV	2.39G	52.71	54.00	-1.29	21.08	3	Vertical	156	2.47	-	27.63	4.00	-
PK	2.411G	112.47	Inf	-Inf	80.89	3	Vertical	156	2.47	-	27.57	4.01	-
AV	2.4106G	104.59	Inf	-Inf	73.01	3	Vertical	156	2.47	-	27.57	4.01	-

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2412MHz_TX



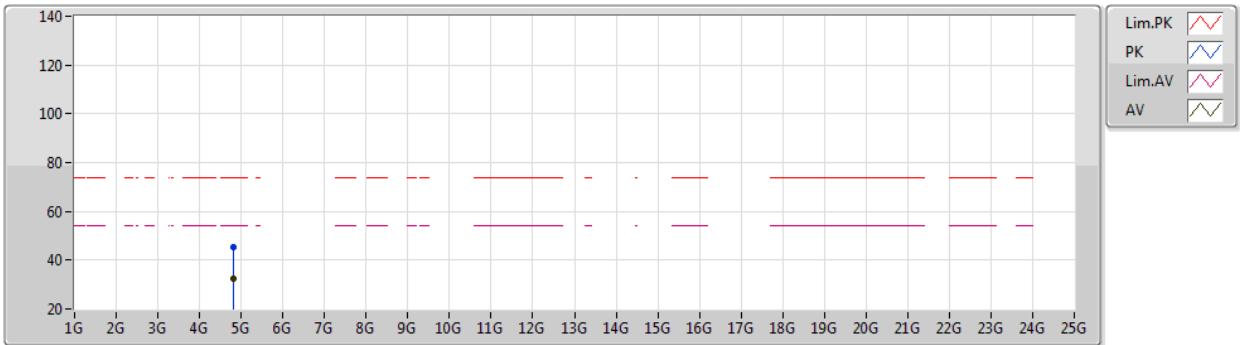
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Setting 15
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	60.23	74.00	-13.77	28.61	3	Horizontal	121	1.00	-	27.63	3.99	-
AV	2.39G	47.59	54.00	-6.41	15.96	3	Horizontal	121	1.00	-	27.63	4.00	-
PK	2.4132G	114.14	Inf	-Inf	82.57	3	Horizontal	121	1.00	-	27.56	4.01	-
AV	2.4144G	105.92	Inf	-Inf	74.35	3	Horizontal	121	1.00	-	27.56	4.01	-

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2412MHz_TX



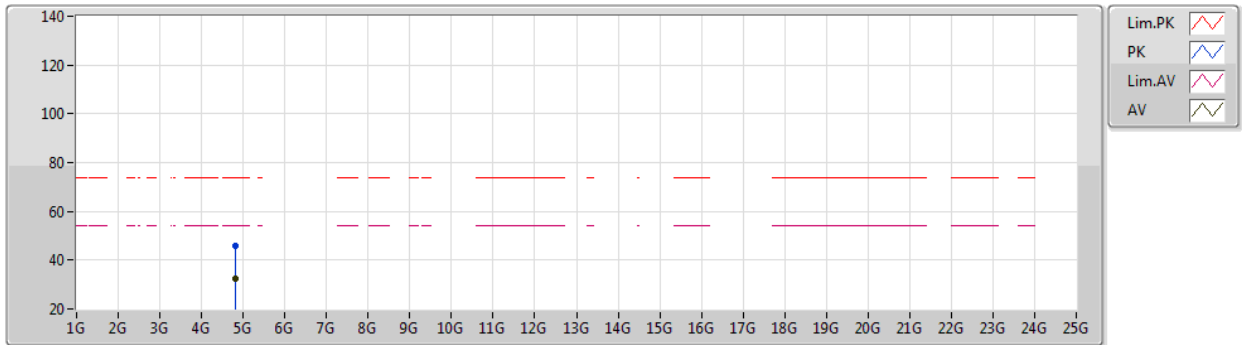
EUT Y_4TX
Setting 15
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82602G	45.27	74.00	-28.73	40.56	3	Vertical	116	2.21	-	31.03	5.34	31.66
AV	4.81914G	32.19	54.00	-21.81	27.51	3	Vertical	116	2.21	-	31.02	5.33	31.67

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2412MHz_TX



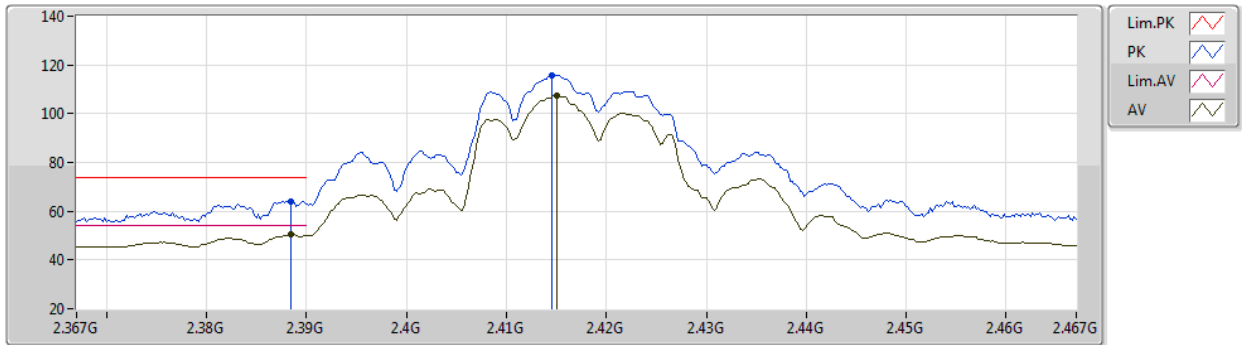
EUT Y_4TX
Setting 15
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82088G	45.65	74.00	-28.35	40.97	3	Horizontal	179	1.78	-	31.02	5.33	31.67
AV	4.82768G	32.39	54.00	-21.61	27.68	3	Horizontal	179	1.78	-	31.03	5.34	31.66

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2417MHz_TX



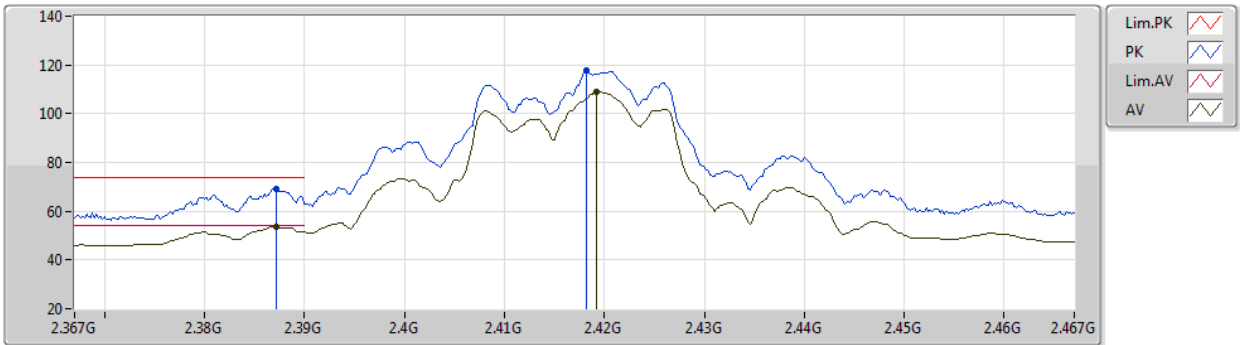
EUT Y_4TX
Setting 19
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	64.11	74.00	-9.89	32.49	3	Vertical	158	1.76	-	27.63	3.99	-
AV	2.3884G	50.77	54.00	-3.23	19.15	3	Vertical	158	1.76	-	27.63	3.99	-
PK	2.4146G	115.69	Inf	-Inf	84.12	3	Vertical	158	1.76	-	27.56	4.01	-
AV	2.415G	107.32	Inf	-Inf	75.75	3	Vertical	158	1.76	-	27.56	4.01	-

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2417MHz_TX



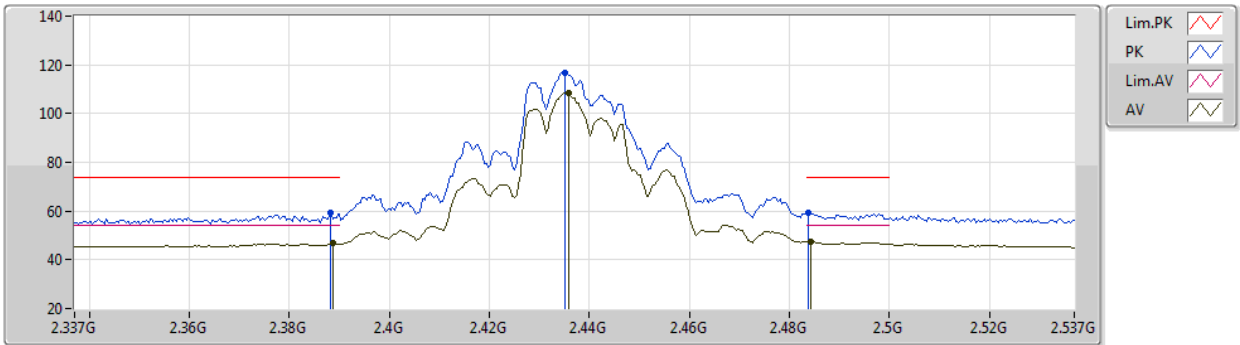
EUT Y_4TX
Setting 19
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3872G	69.38	74.00	-4.62	37.75	3	Horizontal	120	1.03	-	27.64	3.99	-
AV	2.3872G	53.82	54.00	-0.18	22.19	3	Horizontal	120	1.03	-	27.64	3.99	-
PK	2.4182G	117.60	Inf	-Inf	86.04	3	Horizontal	120	1.03	-	27.55	4.01	-
AV	2.4192G	109.18	Inf	-Inf	77.63	3	Horizontal	120	1.03	-	27.54	4.01	-

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



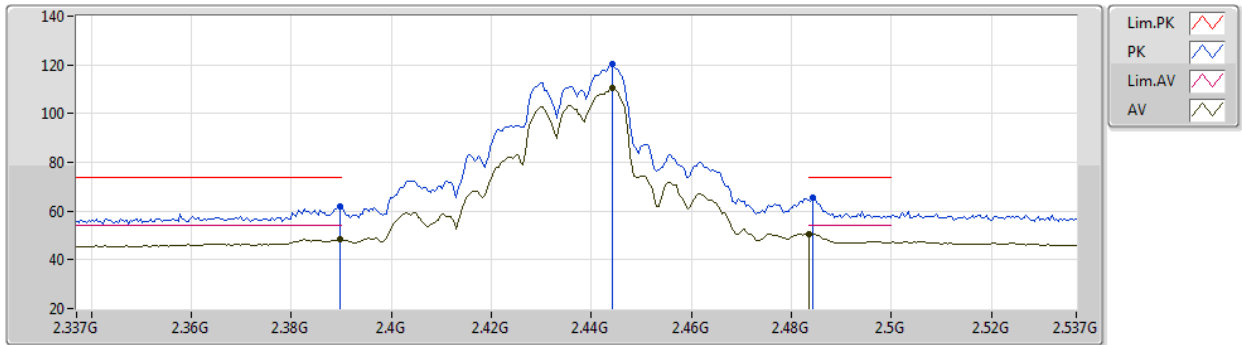
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	59.14	74.00	-14.86	27.51	3	Vertical	202	2.69	-	27.64	3.99	-
AV	2.3886G	46.69	54.00	-7.31	15.07	3	Vertical	202	2.69	-	27.63	3.99	-
PK	2.435G	116.76	Inf	-Inf	85.24	3	Vertical	202	2.69	-	27.50	4.02	-
AV	2.4358G	108.56	Inf	-Inf	77.05	3	Vertical	202	2.69	-	27.49	4.02	-
PK	2.4838G	59.37	74.00	-14.63	27.98	3	Vertical	202	2.69	-	27.35	4.04	-
AV	2.4842G	47.55	54.00	-6.45	16.16	3	Vertical	202	2.69	-	27.35	4.04	-

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



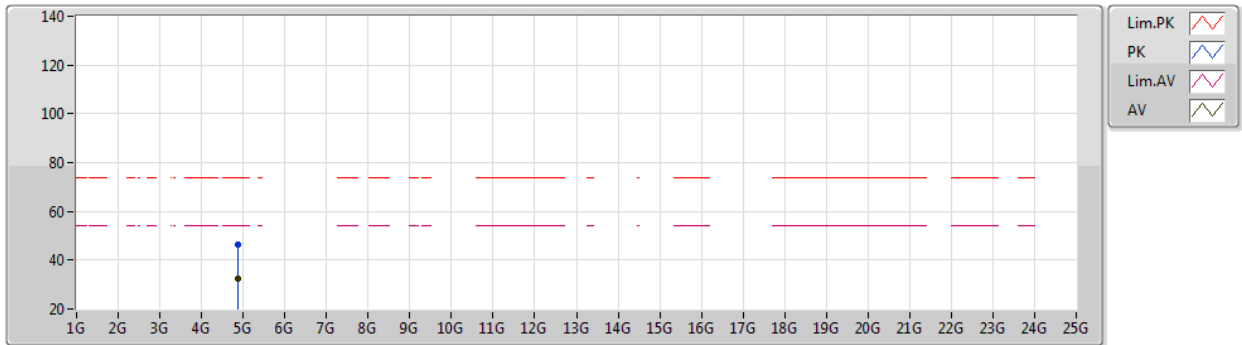
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	61.99	74.00	-12.01	30.37	3	Horizontal	122	2.07	-	27.63	3.99	-
AV	2.3898G	48.48	54.00	-5.52	16.86	3	Horizontal	122	2.07	-	27.63	3.99	-
PK	2.4442G	120.15	Inf	-Inf	88.66	3	Horizontal	122	2.07	-	27.47	4.02	-
AV	2.4442G	110.26	Inf	-Inf	78.77	3	Horizontal	122	2.07	-	27.47	4.02	-
PK	2.4842G	65.43	74.00	-8.57	34.04	3	Horizontal	122	2.07	-	27.35	4.04	-
AV	2.4835G	50.77	54.00	-3.23	19.38	3	Horizontal	122	2.07	-	27.35	4.04	-

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



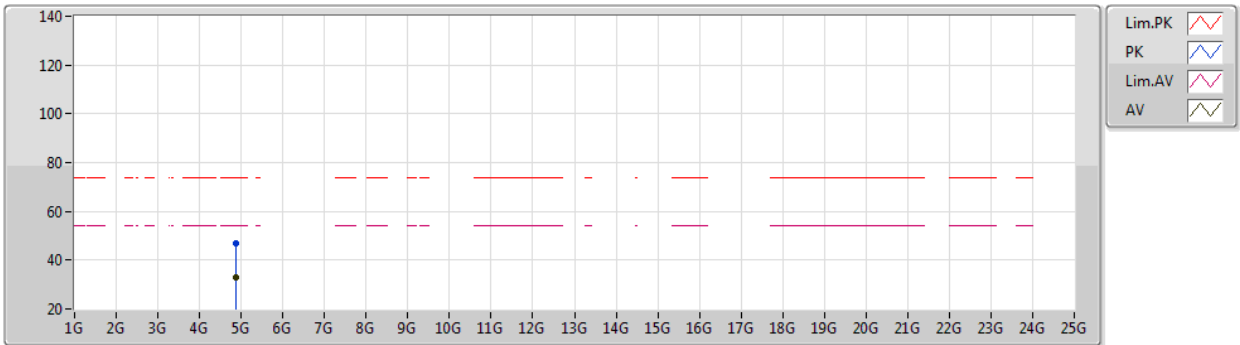
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8709G	46.26	74.00	-27.74	41.43	3	Vertical	126	1.65	-	31.07	5.40	31.64
AV	4.8691G	32.55	54.00	-21.45	27.72	3	Vertical	126	1.65	-	31.07	5.40	31.64

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



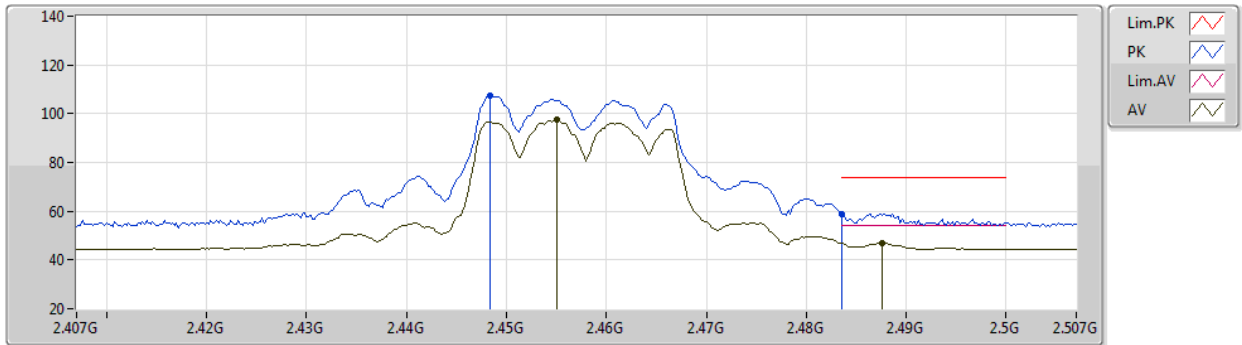
EUT Y_4TX
Setting 20
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87146G	46.73	74.00	-27.27	41.90	3	Horizontal	182	1.36	-	31.07	5.40	31.64
AV	4.8713G	32.87	54.00	-21.13	28.04	3	Horizontal	182	1.36	-	31.07	5.40	31.64

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2457MHz_TX



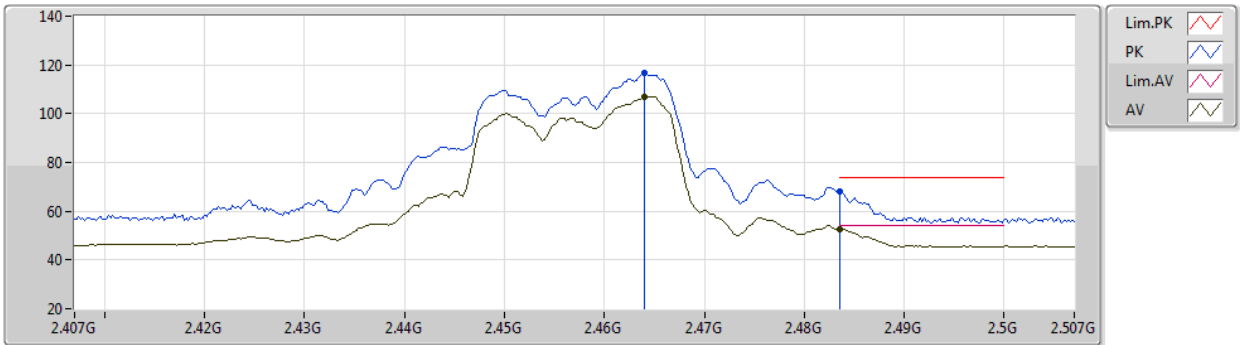
EUT Y_4TX
Setting 16
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4484G	107.64	Inf	-Inf	76.17	3	Vertical	123	2.04	-	27.45	4.02	-
AV	2.455G	97.42	Inf	-Inf	65.95	3	Vertical	123	2.04	-	27.44	4.03	-
PK	2.4835G	58.73	74.00	-15.27	27.34	3	Vertical	123	2.04	-	27.35	4.04	-
AV	2.4876G	46.85	54.00	-7.15	15.47	3	Vertical	123	2.04	-	27.34	4.04	-

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2457MHz_TX



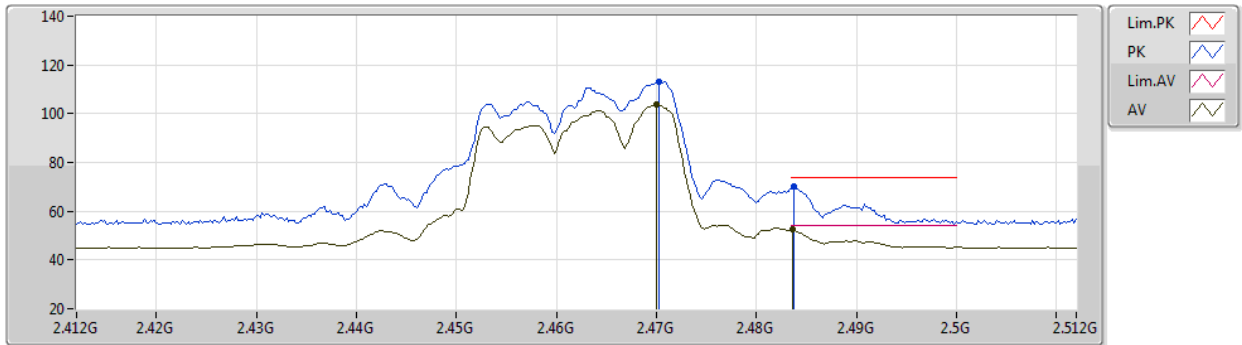
EUT Y_4TX
Setting 16
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.464G	116.61	Inf	-Inf	85.17	3	Horizontal	123	2.04	-	27.41	4.03	-
AV	2.464G	107.05	Inf	-Inf	75.61	3	Horizontal	123	2.04	-	27.41	4.03	-
PK	2.4836G	67.94	74.00	-6.06	36.55	3	Horizontal	123	2.04	-	27.35	4.04	-
AV	2.4835G	52.69	54.00	-1.31	21.30	3	Horizontal	123	2.04	-	27.35	4.04	-

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2462MHz_TX



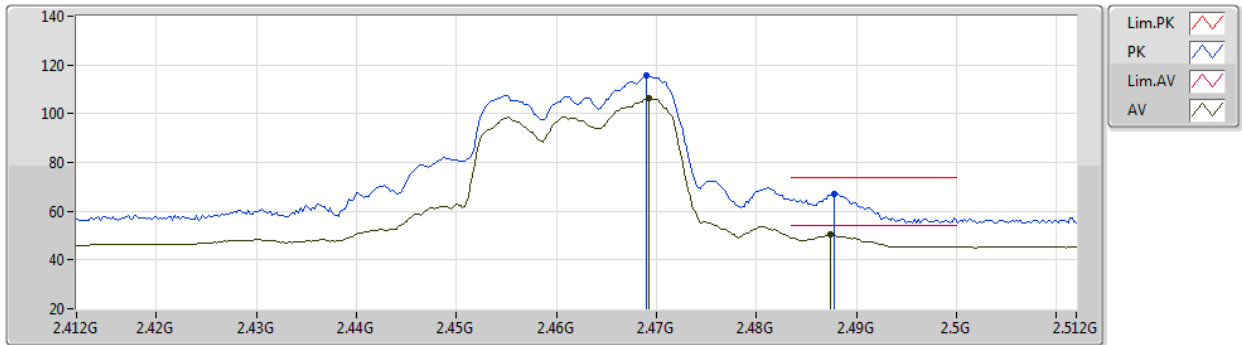
EUT Y_4TX
Setting 15
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4702G	113.15	Inf	-Inf	81.72	3	Vertical	177	1.51	-	27.39	4.04	-
AV	2.47G	104.01	Inf	-Inf	72.58	3	Vertical	177	1.51	-	27.39	4.04	-
PK	2.4838G	70.24	74.00	-3.76	38.85	3	Vertical	177	1.51	-	27.35	4.04	-
AV	2.4836G	52.35	54.00	-1.65	20.96	3	Vertical	177	1.51	-	27.35	4.04	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

11/06/2020



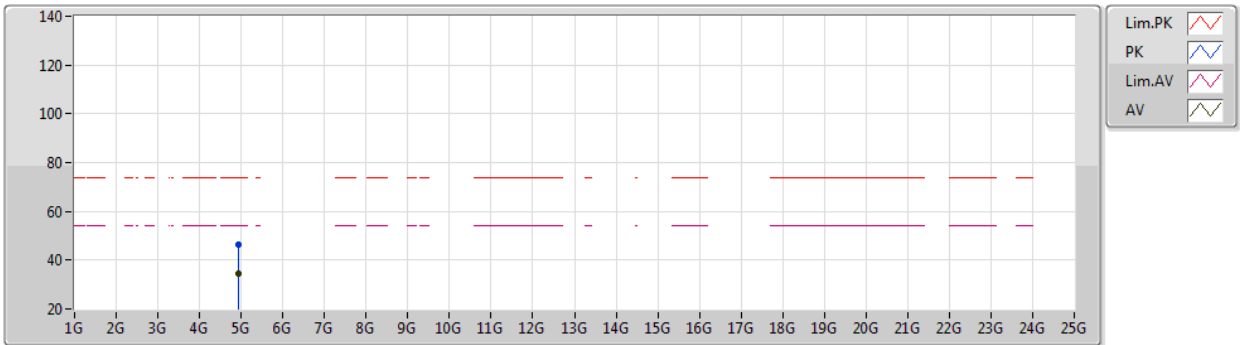
EUT Y_4TX
Setting 15
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.469G	115.65	Inf	-Inf	84.23	3	Horizontal	119	2.04	-	27.39	4.03	-
AV	2.4692G	106.21	Inf	-Inf	74.79	3	Horizontal	119	2.04	-	27.39	4.03	-
PK	2.4878G	67.24	74.00	-6.76	35.86	3	Horizontal	119	2.04	-	27.34	4.04	-
AV	2.4874G	50.30	54.00	-3.70	18.92	3	Horizontal	119	2.04	-	27.34	4.04	-

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2462MHz_TX



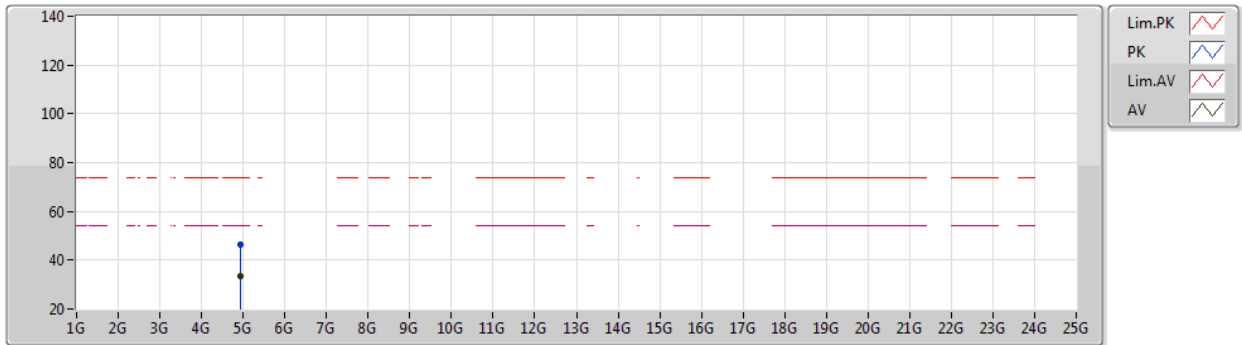
EUT Y_4TX
Setting 15
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92316G	46.62	74.00	-27.38	41.56	3	Vertical	183	1.40	-	31.19	5.48	31.61
AV	4.92018G	34.31	54.00	-19.69	29.27	3	Vertical	183	1.40	-	31.18	5.47	31.61

802.11ax HEW20_Nss1,(MCS0)_4TX

11/06/2020

2462MHz_TX



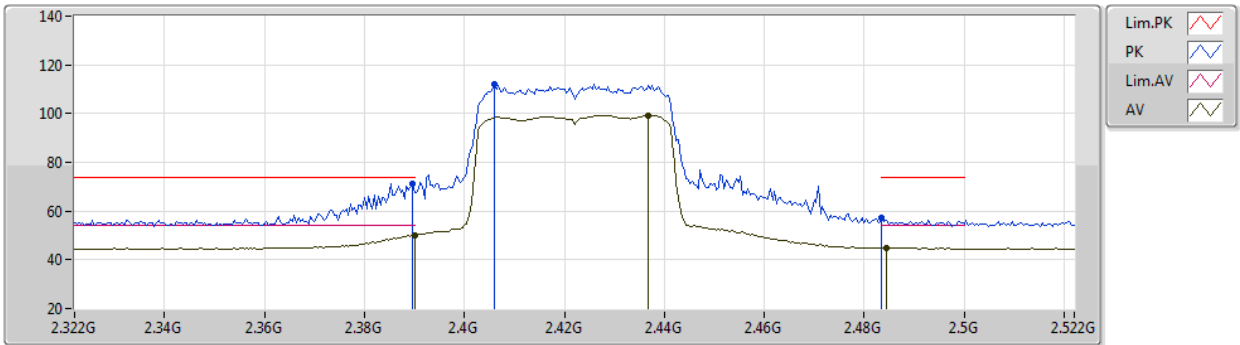
EUT Y_4TX
Setting 15
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92012G	46.45	74.00	-27.55	41.41	3	Horizontal	165	2.76	-	31.18	5.47	31.61
AV	4.91992G	33.69	54.00	-20.31	28.65	3	Horizontal	165	2.76	-	31.18	5.47	31.61

802.11ax HEW40_Nss1,(MCS0)_4TX

11/06/2020

2422MHz_TX



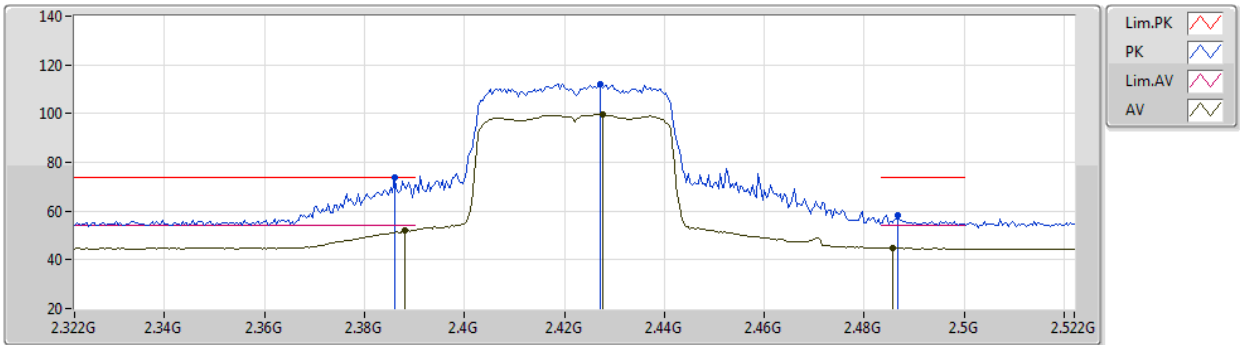
EUT Y_4TX
Setting 14
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	71.02	74.00	-2.98	39.40	3	Vertical	163	2.22	-	27.63	3.99	-
AV	2.39G	50.21	54.00	-3.79	18.58	3	Vertical	163	2.22	-	27.63	4.00	-
PK	2.406G	112.19	Inf	-Inf	80.61	3	Vertical	163	2.22	-	27.58	4.00	-
AV	2.4368G	99.33	Inf	-Inf	67.82	3	Vertical	163	2.22	-	27.49	4.02	-
PK	2.4835G	57.03	74.00	-16.97	25.64	3	Vertical	163	2.22	-	27.35	4.04	-
AV	2.4844G	44.93	54.00	-9.07	13.54	3	Vertical	163	2.22	-	27.35	4.04	-

802.11ax HEW40_Nss1,(MCS0)_4TX

11/06/2020

2422MHz_TX



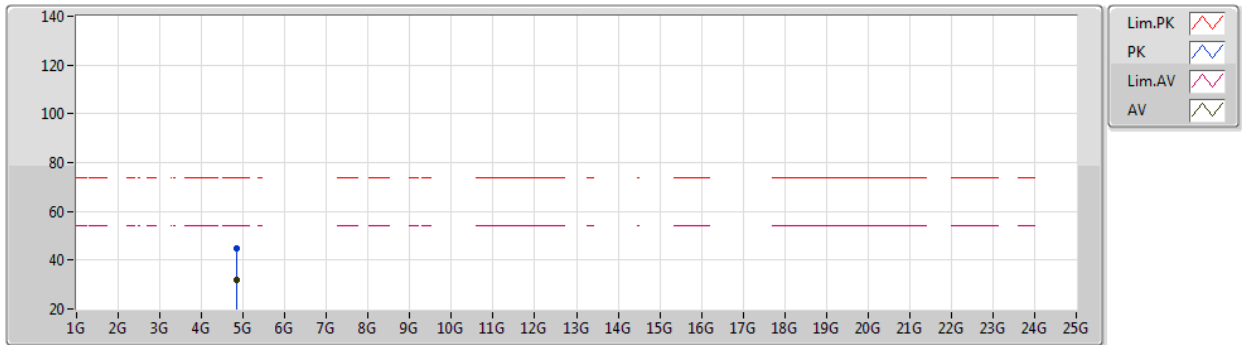
EUT Y_4TX
Setting 14
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.386G	73.91	74.00	-0.09	42.28	3	Horizontal	198	1.50	-	27.64	3.99	-
AV	2.388G	52.07	54.00	-1.93	20.44	3	Horizontal	198	1.50	-	27.64	3.99	-
PK	2.4272G	111.97	Inf	-Inf	80.44	3	Horizontal	198	1.50	-	27.52	4.01	-
AV	2.4276G	99.65	Inf	-Inf	68.12	3	Horizontal	198	1.50	-	27.52	4.01	-
PK	2.4868G	58.09	74.00	-15.91	26.71	3	Horizontal	198	1.50	-	27.34	4.04	-
AV	2.4856G	44.88	54.00	-9.12	13.50	3	Horizontal	198	1.50	-	27.34	4.04	-

802.11ax HEW40_Nss1,(MCS0)_4TX

11/06/2020

2422MHz_TX



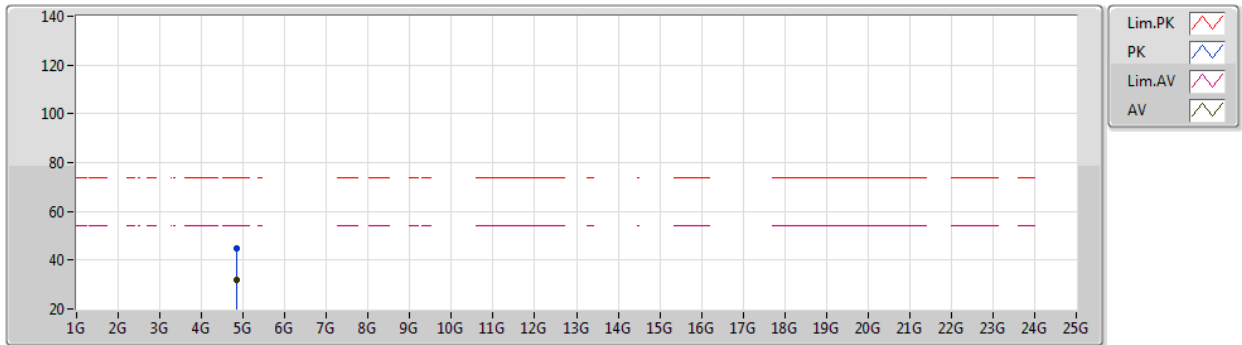
EUT Y_4TX
Setting 14
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.849G	45.02	74.00	-28.98	40.25	3	Vertical	288	1.75	-	31.05	5.37	31.65
AV	4.84614G	31.78	54.00	-22.22	27.02	3	Vertical	288	1.75	-	31.05	5.36	31.65

802.11ax HEW40_Nss1,(MCS0)_4TX

11/06/2020

2422MHz_TX



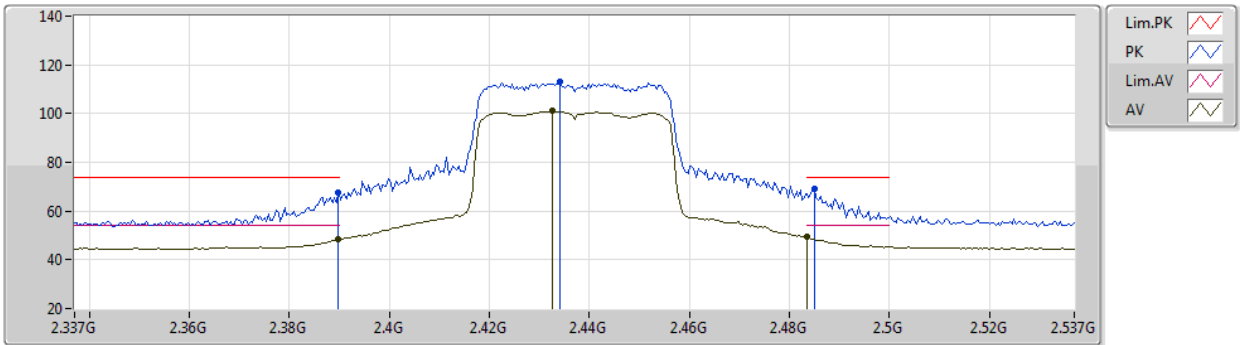
EUT Y_4TX
Setting 14
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84308G	44.96	74.00	-29.04	40.21	3	Horizontal	94	2.37	-	31.04	5.36	31.65
AV	4.84318G	31.87	54.00	-22.13	27.12	3	Horizontal	94	2.37	-	31.04	5.36	31.65

802.11ax HEW40_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



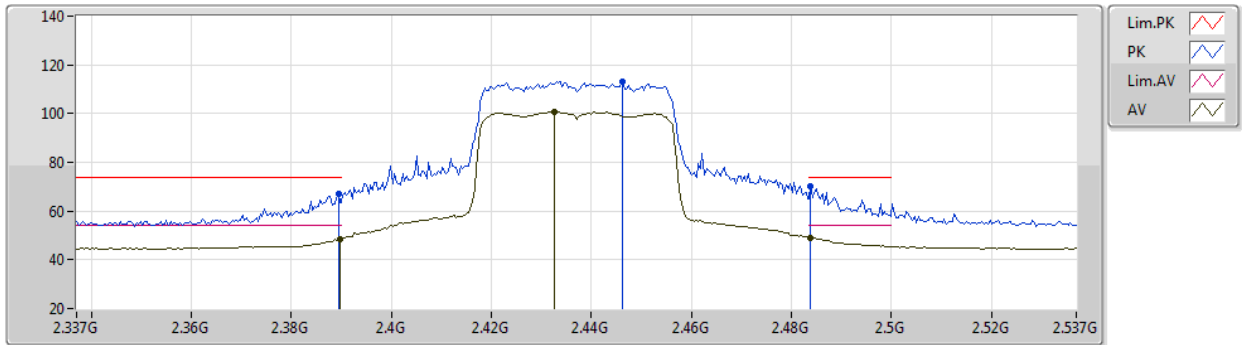
EUT Y_4TX
Setting 15
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	67.45	74.00	-6.55	35.83	3	Vertical	161	2.20	-	27.63	3.99	-
AV	2.3898G	48.33	54.00	-5.67	16.71	3	Vertical	161	2.20	-	27.63	3.99	-
PK	2.4342G	113.28	Inf	-Inf	81.76	3	Vertical	161	2.20	-	27.50	4.02	-
AV	2.4326G	100.96	Inf	-Inf	69.44	3	Vertical	161	2.20	-	27.50	4.02	-
PK	2.485G	69.30	74.00	-4.70	37.92	3	Vertical	161	2.20	-	27.34	4.04	-
AV	2.4835G	49.44	54.00	-4.56	18.05	3	Vertical	161	2.20	-	27.35	4.04	-

802.11ax HEW40_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



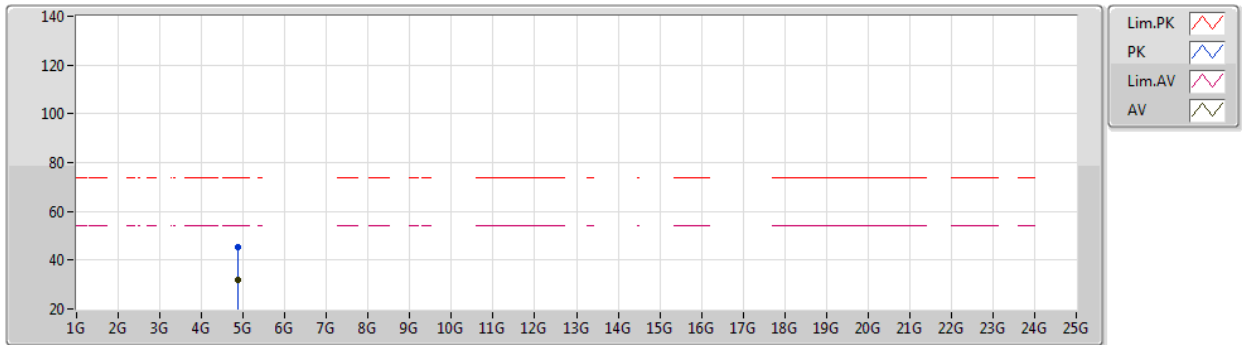
EUT Y_4TX
Setting 15
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	67.14	74.00	-6.86	35.52	3	Horizontal	201	1.25	-	27.63	3.99	-
AV	2.3898G	48.50	54.00	-5.50	16.88	3	Horizontal	201	1.25	-	27.63	3.99	-
PK	2.4462G	112.98	Inf	-Inf	81.50	3	Horizontal	201	1.25	-	27.46	4.02	-
AV	2.4326G	100.59	Inf	-Inf	69.07	3	Horizontal	201	1.25	-	27.50	4.02	-
PK	2.4838G	69.96	74.00	-4.04	38.57	3	Horizontal	201	1.25	-	27.35	4.04	-
AV	2.4838G	49.05	54.00	-4.95	17.66	3	Horizontal	201	1.25	-	27.35	4.04	-

802.11ax HEW40_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



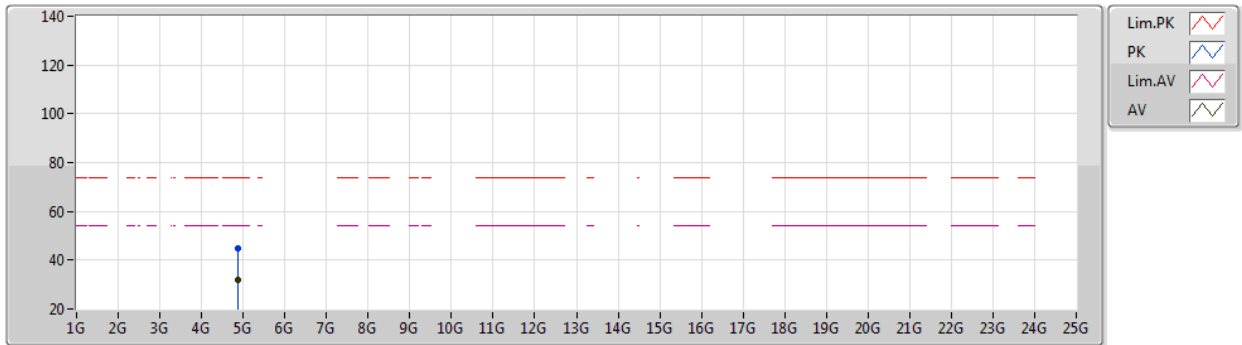
EUT Y_4TX
Setting 15
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87604G	45.56	74.00	-28.44	40.70	3	Vertical	318	1.13	-	31.08	5.41	31.63
AV	4.87738G	32.13	54.00	-21.87	27.27	3	Vertical	318	1.13	-	31.08	5.41	31.63

802.11ax HEW40_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



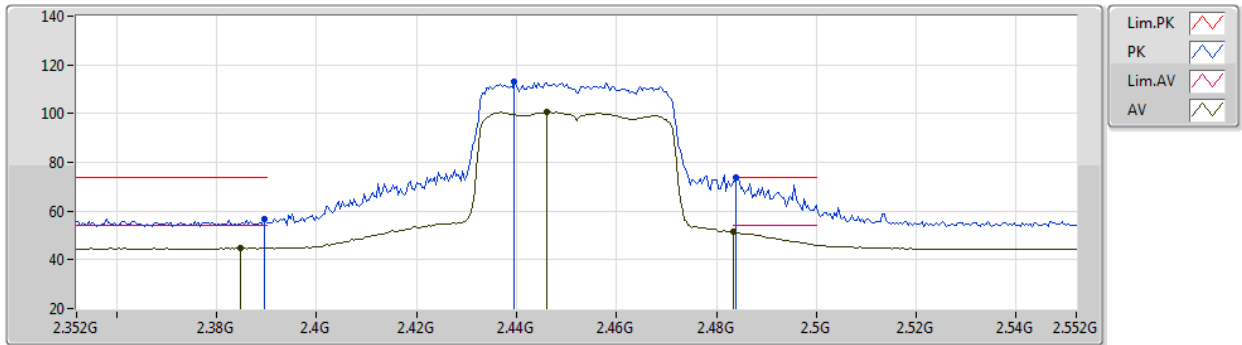
EUT Y_4TX
Setting 15
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8765G	45.02	74.00	-28.98	40.16	3	Horizontal	74	2.20	-	31.08	5.41	31.63
AV	4.87816G	32.13	54.00	-21.87	27.27	3	Horizontal	74	2.20	-	31.08	5.41	31.63

802.11ax HEW40_Nss1,(MCS0)_4TX

11/06/2020

2452MHz_TX



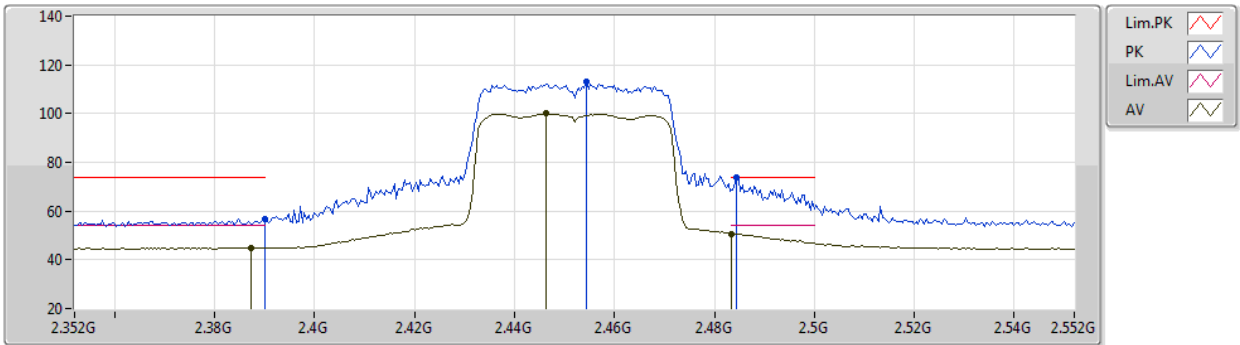
EUT Y_4TX
Setting 14
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	56.80	74.00	-17.20	25.18	3	Vertical	152	2.67	-	27.63	3.99	-
AV	2.3848G	44.78	54.00	-9.22	13.14	3	Vertical	152	2.67	-	27.65	3.99	-
PK	2.4396G	113.18	Inf	-Inf	81.68	3	Vertical	152	2.67	-	27.48	4.02	-
AV	2.446G	100.60	Inf	-Inf	69.12	3	Vertical	152	2.67	-	27.46	4.02	-
PK	2.484G	73.76	74.00	-0.24	42.37	3	Vertical	152	2.67	-	27.35	4.04	-
AV	2.4835G	51.43	54.00	-2.57	20.04	3	Vertical	152	2.67	-	27.35	4.04	-

802.11ax HEW40_Nss1,(MCS0)_4TX

11/06/2020

2452MHz_TX



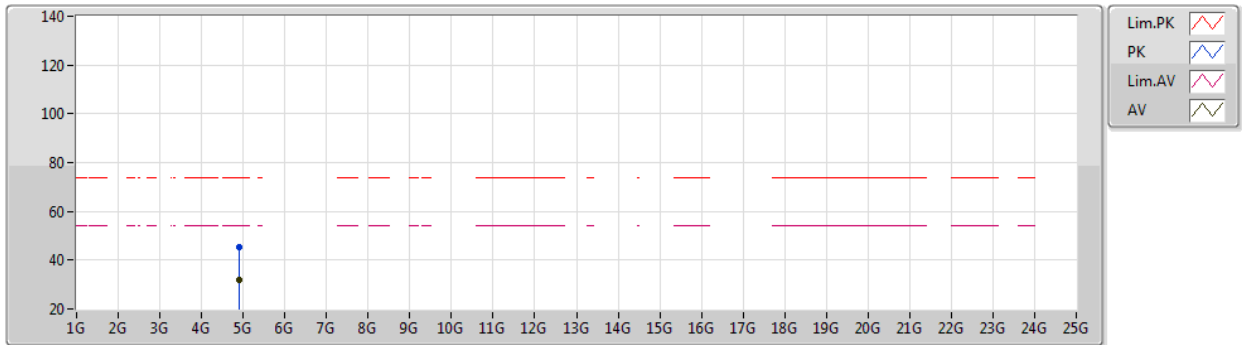
EUT Y_4TX
Setting 14
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	56.96	74.00	-17.04	25.33	3	Horizontal	197	1.07	-	27.63	4.00	-
AV	2.3872G	44.99	54.00	-9.01	13.36	3	Horizontal	197	1.07	-	27.64	3.99	-
PK	2.4544G	113.19	Inf	-Inf	81.72	3	Horizontal	197	1.07	-	27.44	4.03	-
AV	2.4464G	99.95	Inf	-Inf	68.47	3	Horizontal	197	1.07	-	27.46	4.02	-
PK	2.4844G	73.76	74.00	-0.24	42.37	3	Horizontal	197	1.07	-	27.35	4.04	-
AV	2.4835G	50.71	54.00	-3.29	19.32	3	Horizontal	197	1.07	-	27.35	4.04	-

802.11ax HEW40_Nss1,(MCS0)_4TX

11/06/2020

2452MHz_TX



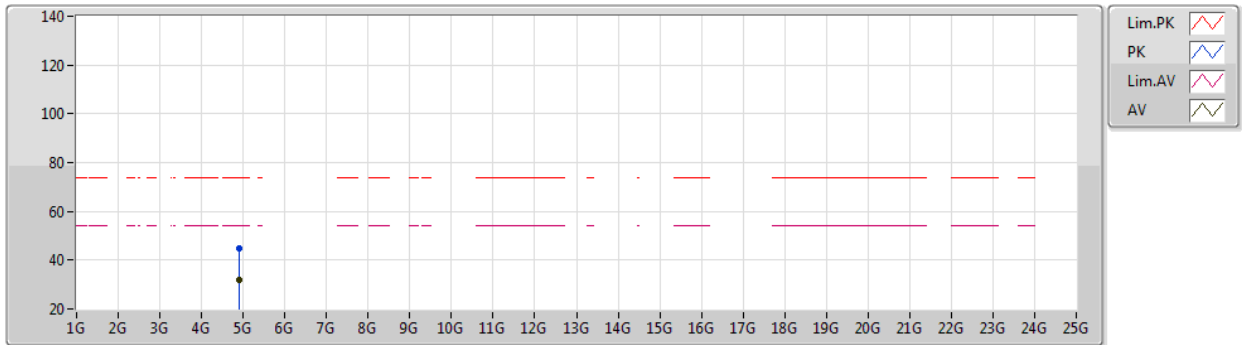
EUT Y_4TX
Setting 14
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90642G	45.15	74.00	-28.85	40.19	3	Vertical	52	2.00	-	31.13	5.45	31.62
AV	4.90768G	32.13	54.00	-21.87	27.17	3	Vertical	52	2.00	-	31.13	5.45	31.62

802.11ax HEW40_Nss1,(MCS0)_4TX

11/06/2020

2452MHz_TX



EUT Y_4TX
Setting 14
01-F-N-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90126G	45.00	74.00	-29.00	40.07	3	Horizontal	270	2.21	-	31.11	5.44	31.62
AV	4.90102G	32.14	54.00	-21.86	27.22	3	Horizontal	270	2.21	-	31.10	5.44	31.62



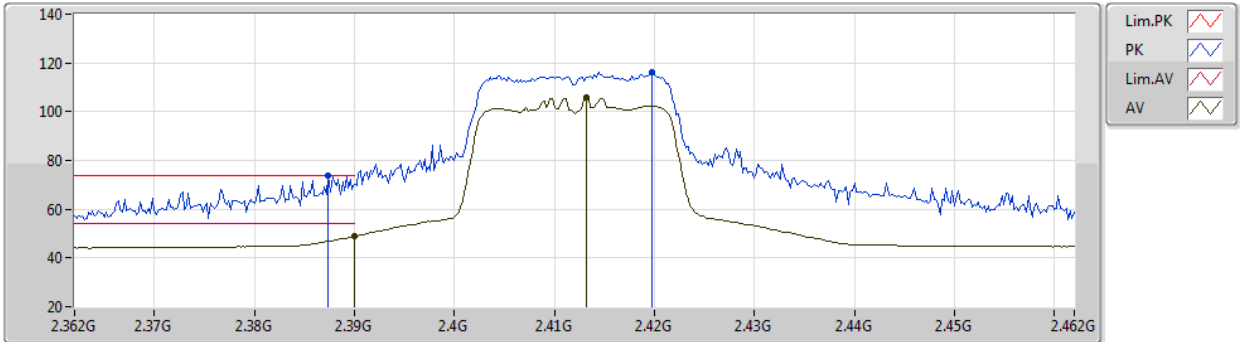
For beamforming function:

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)_4TX	Pass	PK	2.3898G	73.95	74.00	-0.05	3	Vertical	343	2.89	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX 2412MHz_TX

11/06/2020



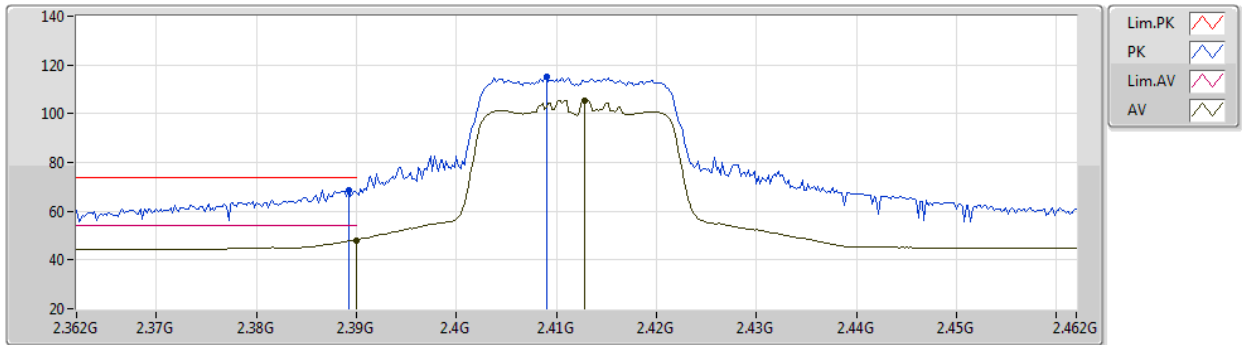
EUT Y_4TX
Setting 13
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3874G	73.57	74.00	-0.43	41.57	3	Vertical	335	2.93	-	28.27	3.73	-
AV	2.39G	48.87	54.00	-5.13	16.86	3	Vertical	335	2.93	-	28.28	3.73	-
PK	2.4198G	116.31	Inf	-Inf	84.20	3	Vertical	335	2.93	-	28.36	3.75	-
AV	2.4132G	105.79	Inf	-Inf	73.70	3	Vertical	335	2.93	-	28.34	3.75	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2412MHz_TX



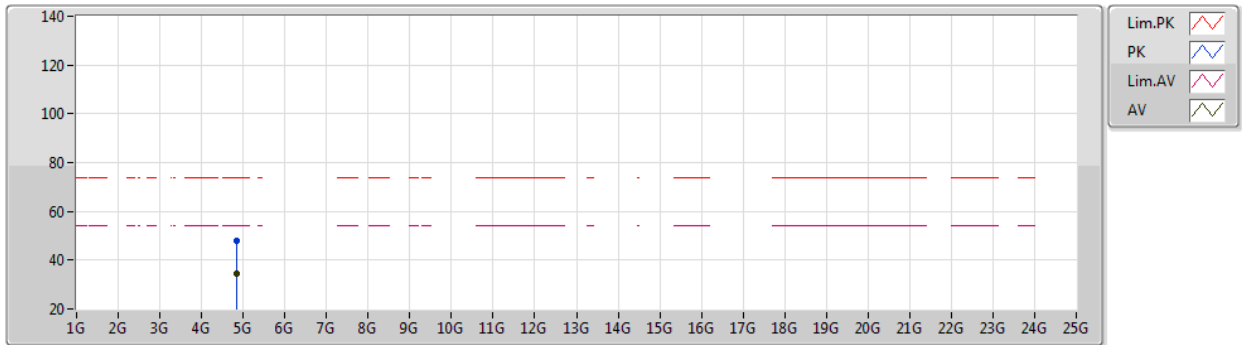
EUT Y_4TX
Setting 13
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	68.78	74.00	-5.22	36.77	3	Horizontal	19	1.51	-	28.28	3.73	-
AV	2.39G	48.15	54.00	-5.85	16.14	3	Horizontal	19	1.51	-	28.28	3.73	-
PK	2.409G	115.16	Inf	-Inf	83.08	3	Horizontal	19	1.51	-	28.33	3.75	-
AV	2.4128G	105.57	Inf	-Inf	73.48	3	Horizontal	19	1.51	-	28.34	3.75	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2412MHz_TX



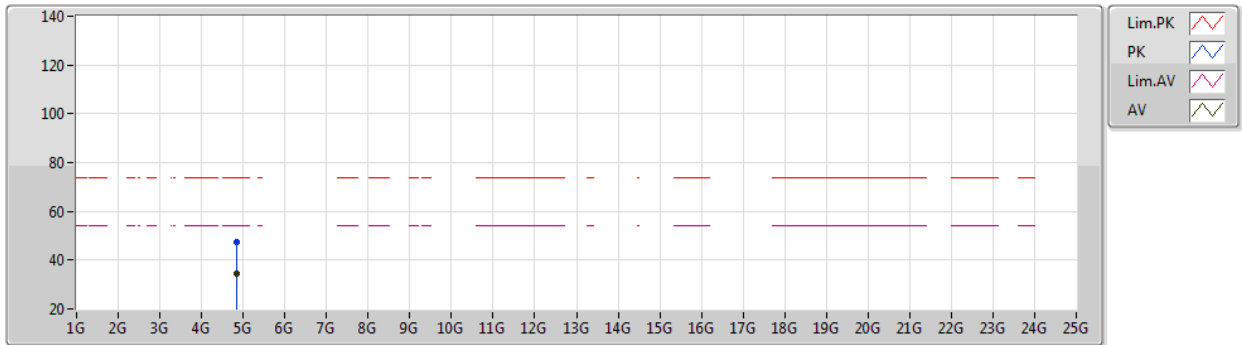
EUT Y_4TX
Setting 13
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83612G	48.13	74.00	-25.87	42.80	3	Vertical	278	1.80	-	33.57	6.57	34.81
AV	4.836G	34.35	54.00	-19.65	29.02	3	Vertical	278	1.80	-	33.57	6.57	34.81

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2412MHz_TX



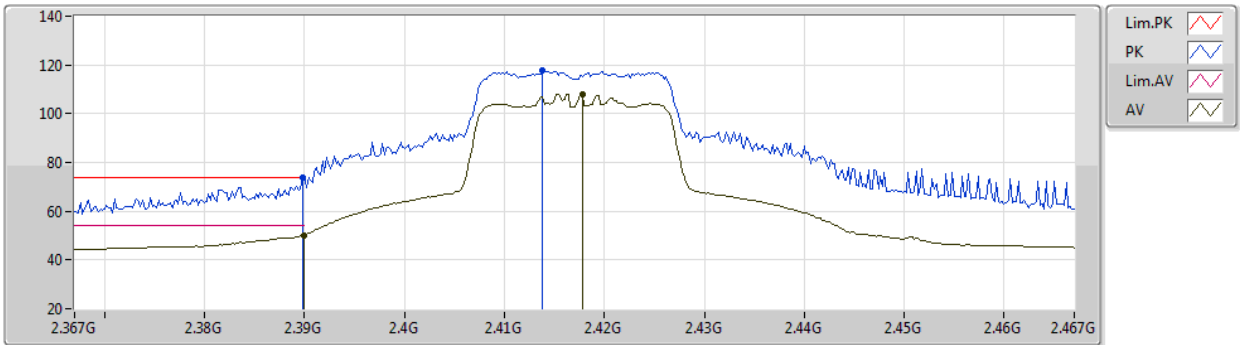
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Setting 13
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.830666G	47.33	74.00	-26.67	42.02	3	Horizontal	277	2.85	-	33.56	6.57	34.82
AV	4.83474G	34.27	54.00	-19.73	28.94	3	Horizontal	277	2.85	-	33.57	6.57	34.81

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2417MHz_TX



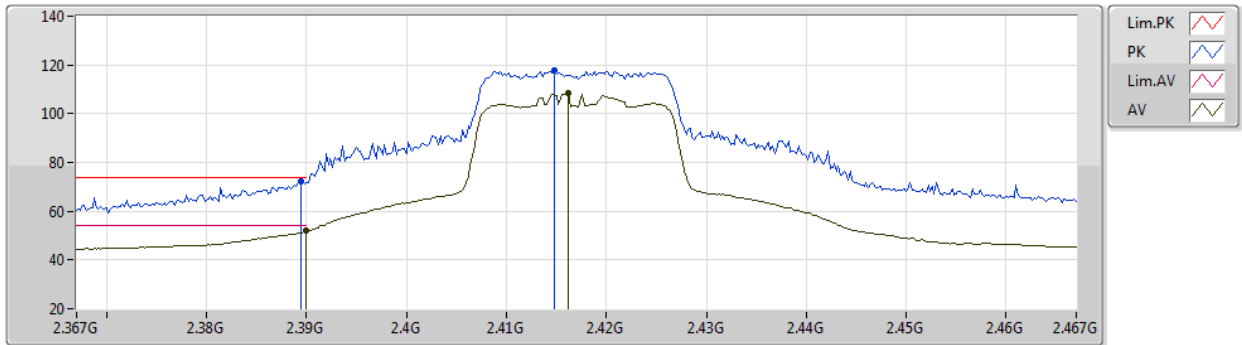
EUT Y_4TX
Setting 16
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	73.95	74.00	-0.05	41.94	3	Vertical	343	2.89	-	28.28	3.73	-
AV	2.39G	50.22	54.00	-3.78	18.21	3	Vertical	343	2.89	-	28.28	3.73	-
PK	2.4138G	117.63	Inf	-Inf	85.54	3	Vertical	343	2.89	-	28.34	3.75	-
AV	2.4178G	107.89	Inf	-Inf	75.79	3	Vertical	343	2.89	-	28.35	3.75	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2417MHz_TX



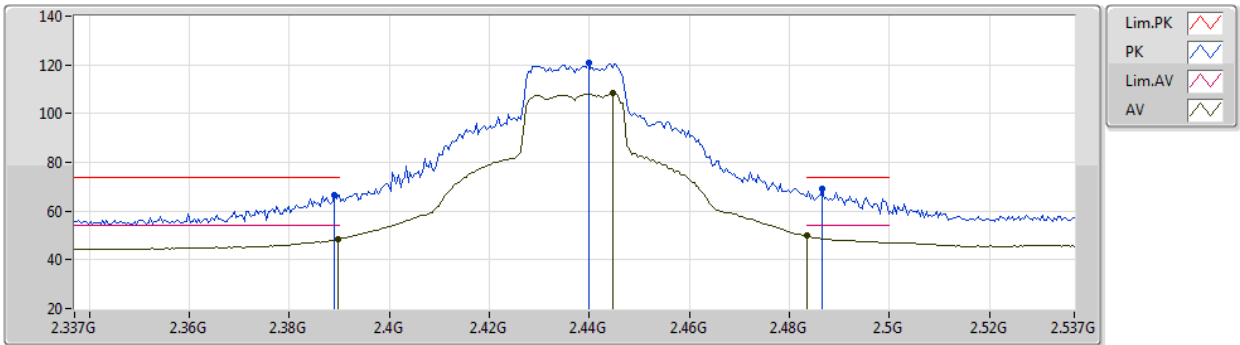
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Setting 16
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	72.17	74.00	-1.83	40.16	3	Horizontal	20	1.00	-	28.28	3.73	-
AV	2.39G	51.90	54.00	-2.10	19.89	3	Horizontal	20	1.00	-	28.28	3.73	-
PK	2.4148G	117.92	Inf	-Inf	85.83	3	Horizontal	20	1.00	-	28.34	3.75	-
AV	2.4162G	108.29	Inf	-Inf	76.19	3	Horizontal	20	1.00	-	28.35	3.75	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



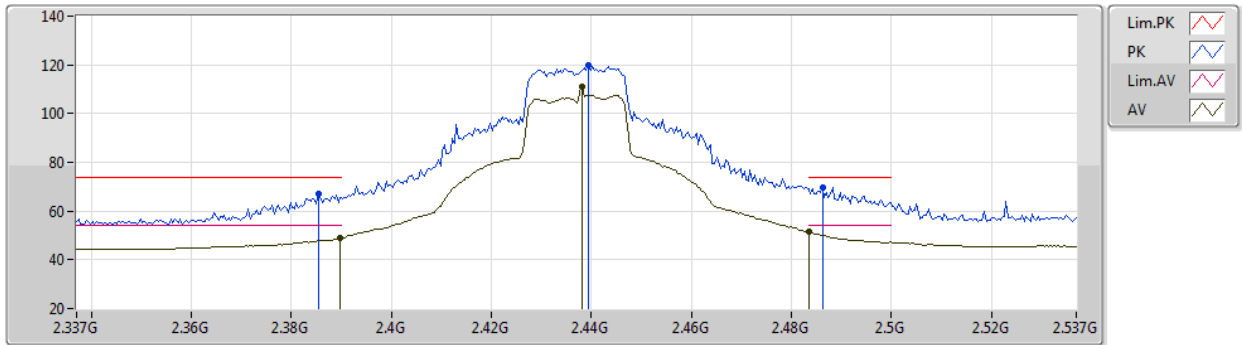
EUT Y_4TX
Setting 20
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	66.49	74.00	-7.51	34.48	3	Vertical	334	2.56	-	28.28	3.73	-
AV	2.3898G	48.46	54.00	-5.54	16.45	3	Vertical	334	2.56	-	28.28	3.73	-
PK	2.4398G	120.73	Inf	-Inf	88.55	3	Vertical	334	2.56	-	28.42	3.76	-
AV	2.4446G	108.27	Inf	-Inf	76.07	3	Vertical	334	2.56	-	28.43	3.77	-
PK	2.4866G	69.03	74.00	-4.97	36.68	3	Vertical	334	2.56	-	28.56	3.79	-
AV	2.4835G	49.86	54.00	-4.14	17.52	3	Vertical	334	2.56	-	28.55	3.79	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



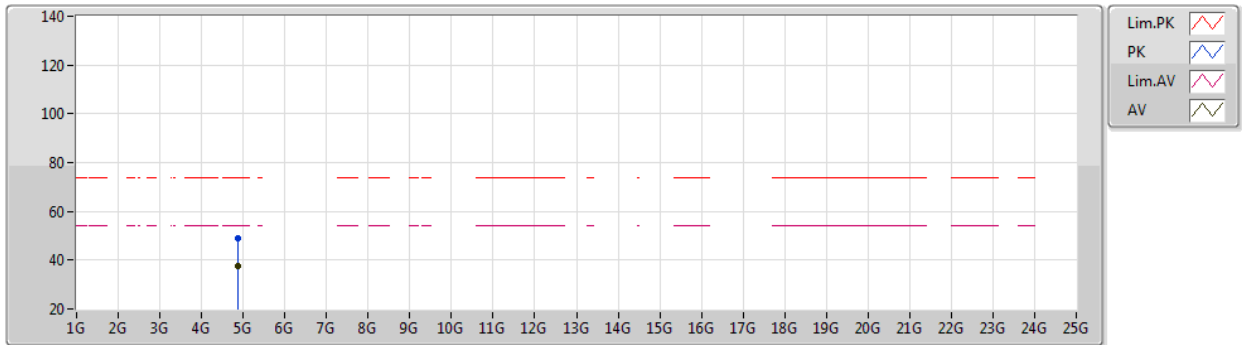
EUT Y_4TX
Setting 20
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3854G	67.17	74.00	-6.83	35.17	3	Horizontal	23	1.38	-	28.27	3.73	-
AV	2.3898G	48.87	54.00	-5.13	16.86	3	Horizontal	23	1.38	-	28.28	3.73	-
PK	2.4394G	119.60	Inf	-Inf	87.42	3	Horizontal	23	1.38	-	28.42	3.76	-
AV	2.4382G	111.17	Inf	-Inf	79.00	3	Horizontal	23	1.38	-	28.41	3.76	-
PK	2.4862G	69.65	74.00	-4.35	37.30	3	Horizontal	23	1.38	-	28.56	3.79	-
AV	2.4835G	51.52	54.00	-2.48	19.18	3	Horizontal	23	1.38	-	28.55	3.79	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



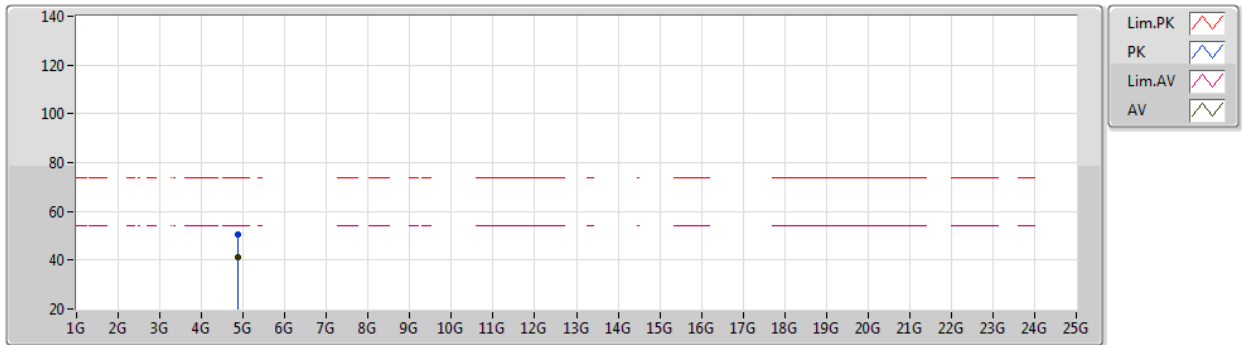
EUT Y_4TX
Setting 20
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87028G	49.12	74.00	-24.88	43.68	3	Vertical	318	1.32	-	33.64	6.58	34.78
AV	4.87388G	37.68	54.00	-16.32	32.23	3	Vertical	318	1.32	-	33.65	6.58	34.78

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



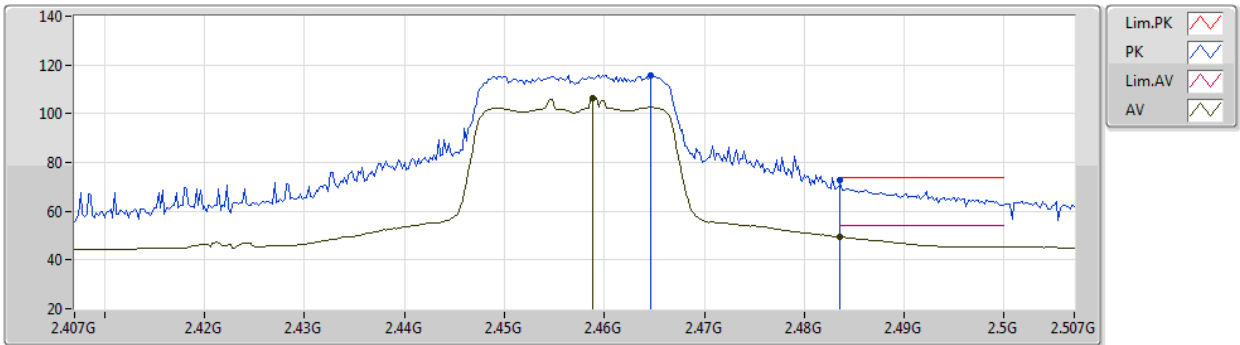
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Setting 20
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87424G	50.26	74.00	-23.74	44.81	3	Horizontal	341	1.54	-	33.65	6.58	34.78
AV	4.87398G	41.23	54.00	-12.77	35.78	3	Horizontal	341	1.54	-	33.65	6.58	34.78

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2457MHz_TX



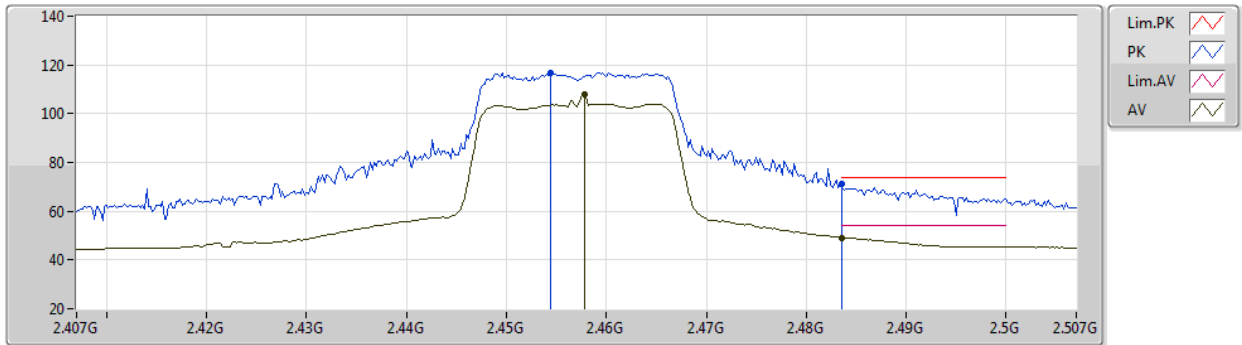
EUT Y_4TX
Setting 14
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4646G	115.83	Inf	-Inf	83.56	3	Vertical	343	1.43	-	28.49	3.78	-
AV	2.4588G	106.36	Inf	-Inf	74.10	3	Vertical	343	1.43	-	28.48	3.78	-
PK	2.4836G	72.58	74.00	-1.42	40.24	3	Vertical	343	1.43	-	28.55	3.79	-
AV	2.4835G	49.44	54.00	-4.56	17.10	3	Vertical	343	1.43	-	28.55	3.79	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2457MHz_TX



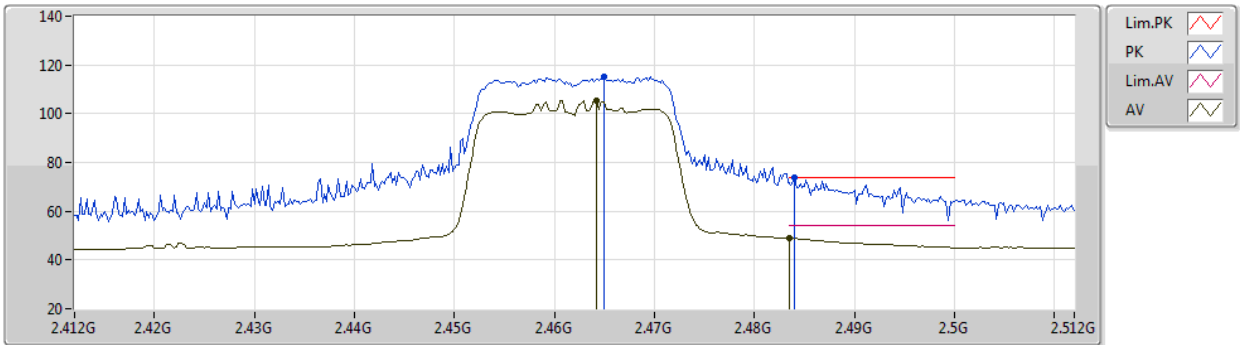
EUT Y_4TX
Setting 14
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4544G	116.84	Inf	-Inf	84.61	3	Horizontal	18	1.03	-	28.46	3.77	-
AV	2.4578G	107.84	Inf	-Inf	75.60	3	Horizontal	18	1.03	-	28.47	3.77	-
PK	2.4835G	71.17	74.00	-2.83	38.83	3	Horizontal	18	1.03	-	28.55	3.79	-
AV	2.4835G	49.22	54.00	-4.78	16.88	3	Horizontal	18	1.03	-	28.55	3.79	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2462MHz_TX



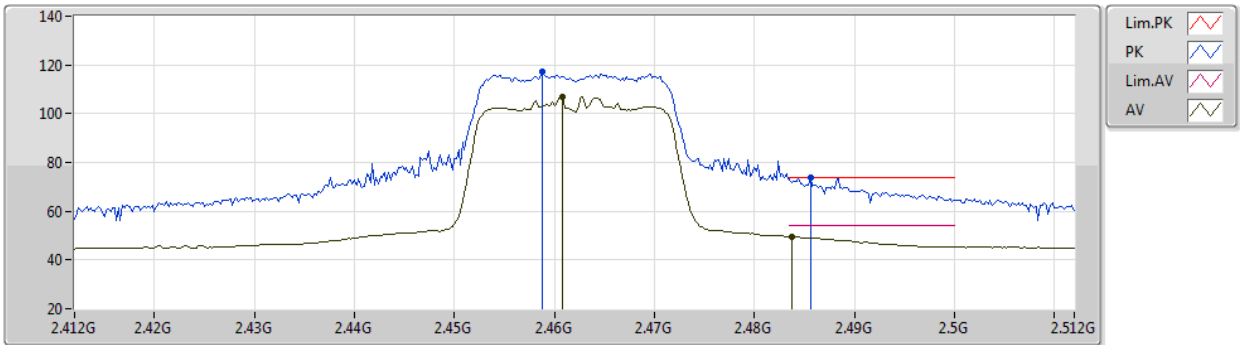
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Setting 13
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.465G	115.09	Inf	-Inf	82.81	3	Vertical	24	2.32	-	28.50	3.78	-
AV	2.4642G	105.56	Inf	-Inf	73.29	3	Vertical	24	2.32	-	28.49	3.78	-
PK	2.484G	73.56	74.00	-0.44	41.22	3	Vertical	24	2.32	-	28.55	3.79	-
AV	2.4835G	48.86	54.00	-5.14	16.52	3	Vertical	24	2.32	-	28.55	3.79	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2462MHz_TX



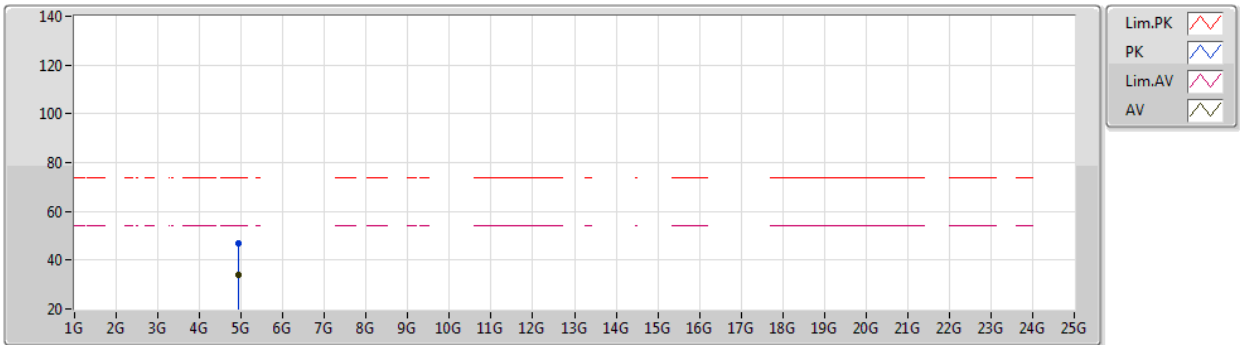
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Setting 13
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4588G	117.30	Inf	-Inf	85.04	3	Horizontal	14	1.00	-	28.48	3.78	-
AV	2.4608G	106.93	Inf	-Inf	74.67	3	Horizontal	14	1.00	-	28.48	3.78	-
PK	2.4856G	73.79	74.00	-0.21	41.44	3	Horizontal	14	1.00	-	28.56	3.79	-
AV	2.4838G	49.59	54.00	-4.41	17.25	3	Horizontal	14	1.00	-	28.55	3.79	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2462MHz_TX



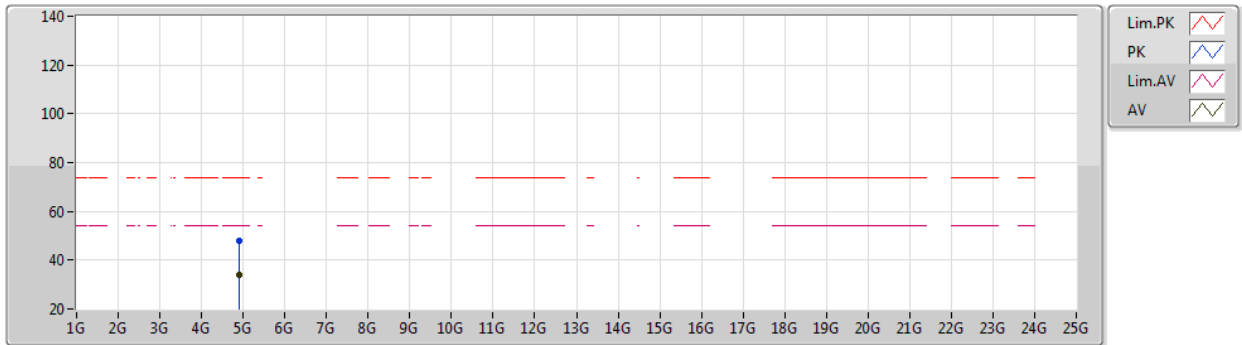
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Setting 13
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.93054G	46.79	74.00	-27.21	41.16	3	Vertical	15	2.01	-	33.76	6.60	34.73
AV	4.93342G	34.07	54.00	-19.93	28.43	3	Vertical	15	2.01	-	33.77	6.60	34.73

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

11/06/2020

2462MHz_TX



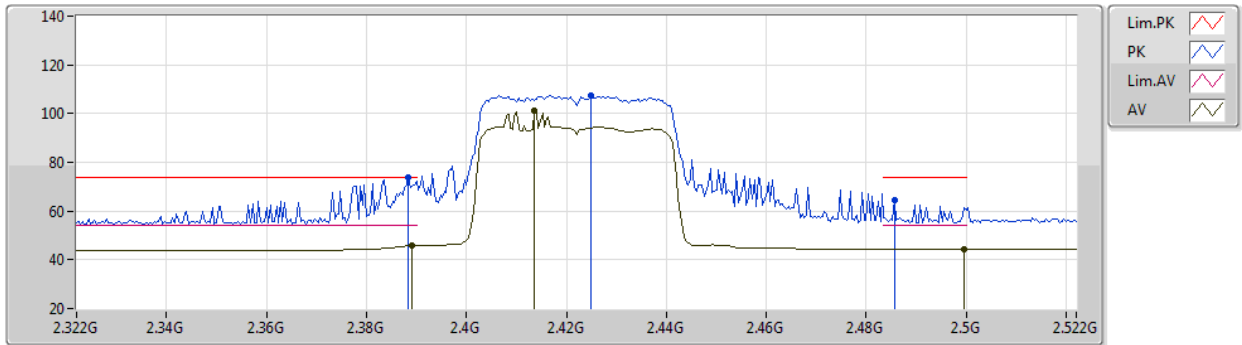
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Setting 13
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91044G	47.96	74.00	-26.04	42.40	3	Horizontal	3	2.06	-	33.72	6.59	34.75
AV	4.9153G	34.09	54.00	-19.91	28.52	3	Horizontal	3	2.06	-	33.73	6.59	34.75

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2422MHz_TX



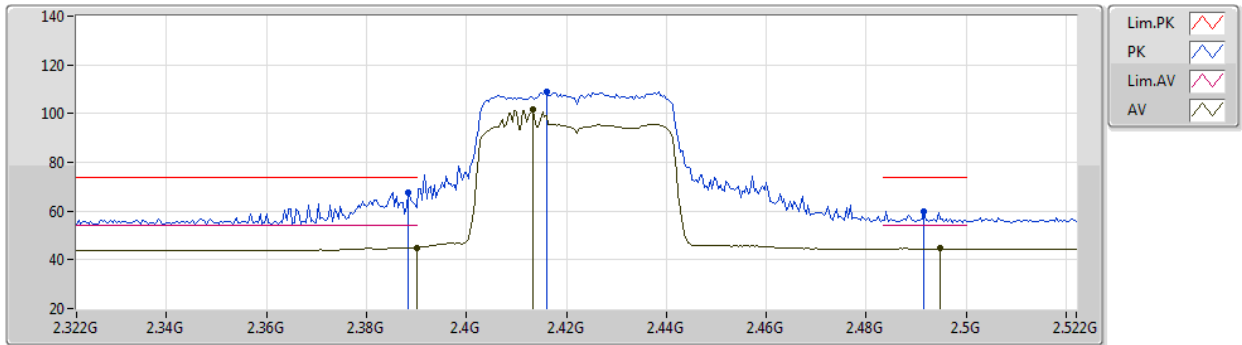
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Setting 09
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	73.66	74.00	-0.34	41.65	3	Vertical	343	2.38	-	28.28	3.73	-
AV	2.3892G	46.01	54.00	-7.99	14.00	3	Vertical	343	2.38	-	28.28	3.73	-
PK	2.4248G	107.61	Inf	-Inf	75.49	3	Vertical	343	2.38	-	28.37	3.75	-
AV	2.4136G	100.97	Inf	-Inf	68.88	3	Vertical	343	2.38	-	28.34	3.75	-
PK	2.4856G	64.25	74.00	-9.75	31.90	3	Vertical	343	2.38	-	28.56	3.79	-
AV	2.4996G	44.48	54.00	-9.52	12.08	3	Vertical	343	2.38	-	28.60	3.80	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2422MHz_TX



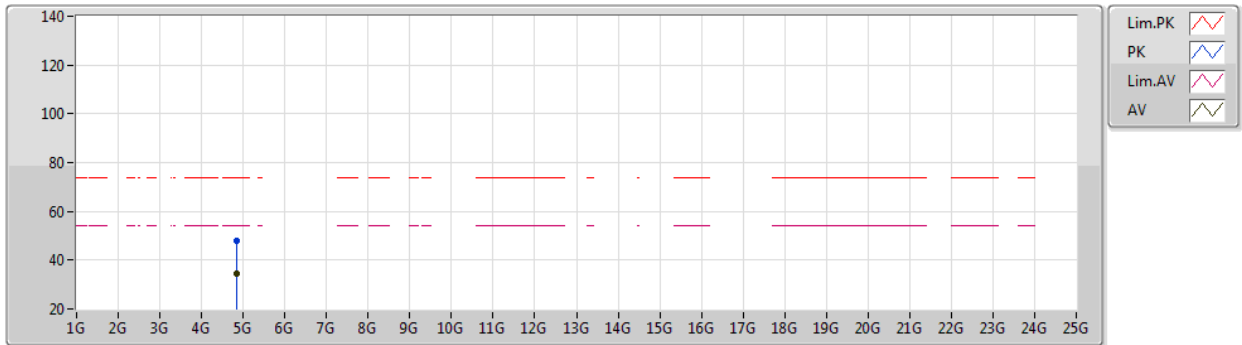
EUT Y_4TX
Setting 09
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	67.59	74.00	-6.41	35.58	3	Horizontal	6	1.00	-	28.28	3.73	-
AV	2.39G	44.97	54.00	-9.03	12.96	3	Horizontal	6	1.00	-	28.28	3.73	-
PK	2.416G	108.79	Inf	-Inf	76.69	3	Horizontal	6	1.00	-	28.35	3.75	-
AV	2.4132G	101.81	Inf	-Inf	69.72	3	Horizontal	6	1.00	-	28.34	3.75	-
PK	2.4916G	59.92	74.00	-14.08	27.56	3	Horizontal	6	1.00	-	28.57	3.79	-
AV	2.4948G	44.60	54.00	-9.40	12.22	3	Horizontal	6	1.00	-	28.58	3.80	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2422MHz_TX



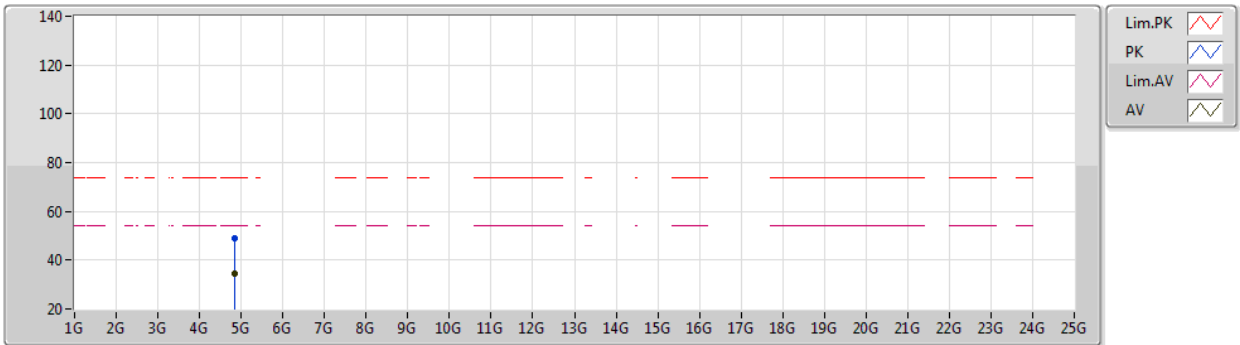
EUT Y_4TX
Setting 09
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.85576G	47.97	74.00	-26.03	42.58	3	Vertical	202	1.24	-	33.61	6.58	34.80
AV	4.85702G	34.66	54.00	-19.34	29.26	3	Vertical	202	1.24	-	33.61	6.58	34.79

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2422MHz_TX



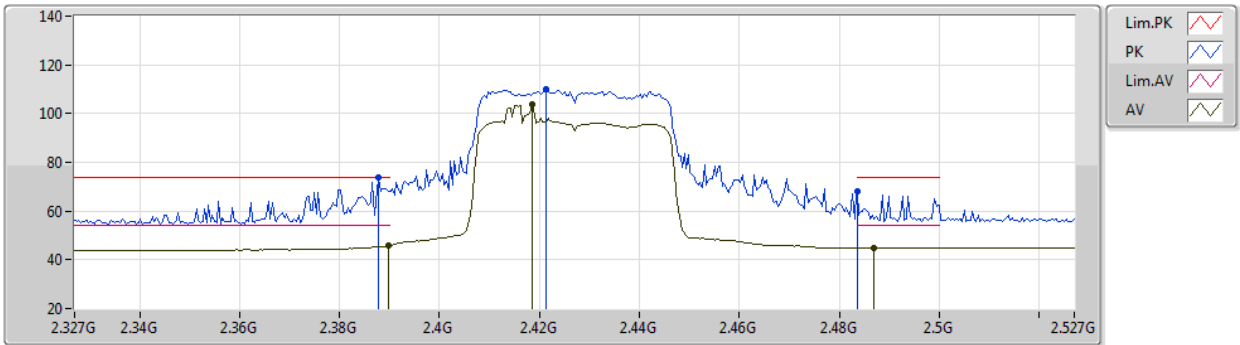
EUT Y_4TX
Setting 09
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83824G	49.04	74.00	-24.96	43.70	3	Horizontal	60	2.74	-	33.58	6.57	34.81
AV	4.84898G	34.61	54.00	-19.39	29.24	3	Horizontal	60	2.74	-	33.60	6.57	34.80

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2427MHz_TX



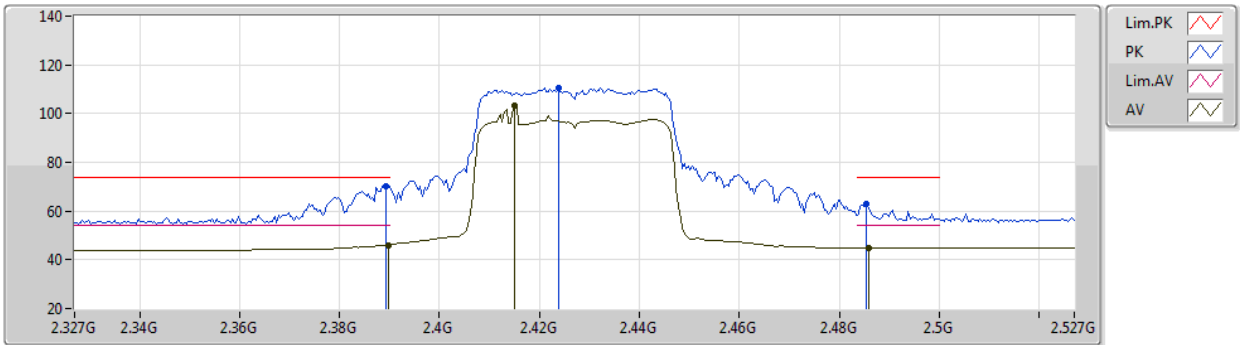
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Setting 11
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	73.58	74.00	-0.42	41.57	3	Vertical	341	2.35	-	28.28	3.73	-
AV	2.3898G	45.89	54.00	-8.11	13.88	3	Vertical	341	2.35	-	28.28	3.73	-
PK	2.4214G	109.85	Inf	-Inf	77.74	3	Vertical	341	2.35	-	28.36	3.75	-
AV	2.4186G	103.63	Inf	-Inf	71.52	3	Vertical	341	2.35	-	28.36	3.75	-
PK	2.4835G	68.09	74.00	-5.91	35.75	3	Vertical	341	2.35	-	28.55	3.79	-
AV	2.487G	44.79	54.00	-9.21	12.44	3	Vertical	341	2.35	-	28.56	3.79	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2427MHz_TX



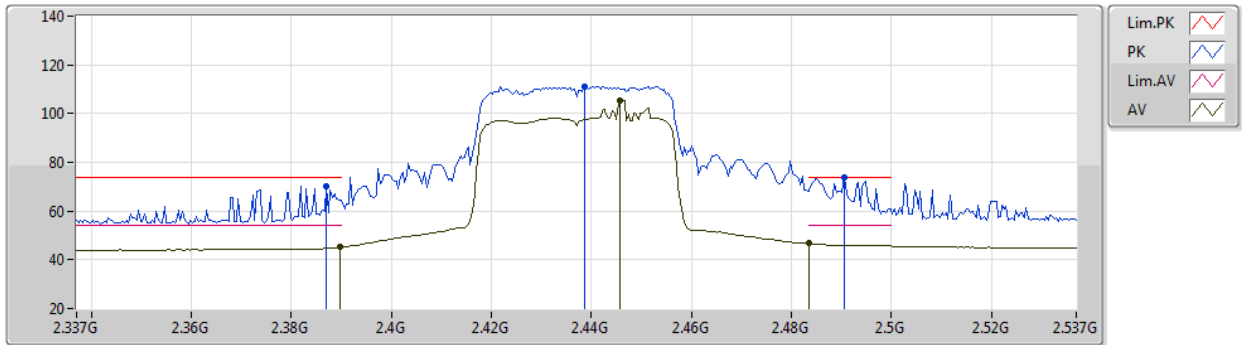
EUT Y_4TX
Setting 11
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	70.42	74.00	-3.58	38.41	3	Horizontal	14	1.19	-	28.28	3.73	-
AV	2.3898G	46.10	54.00	-7.90	14.09	3	Horizontal	14	1.19	-	28.28	3.73	-
PK	2.4238G	110.72	Inf	-Inf	78.60	3	Horizontal	14	1.19	-	28.37	3.75	-
AV	2.415G	103.43	Inf	-Inf	71.34	3	Horizontal	14	1.19	-	28.34	3.75	-
PK	2.4854G	62.78	74.00	-11.22	30.43	3	Horizontal	14	1.19	-	28.56	3.79	-
AV	2.4858G	44.97	54.00	-9.03	12.62	3	Horizontal	14	1.19	-	28.56	3.79	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



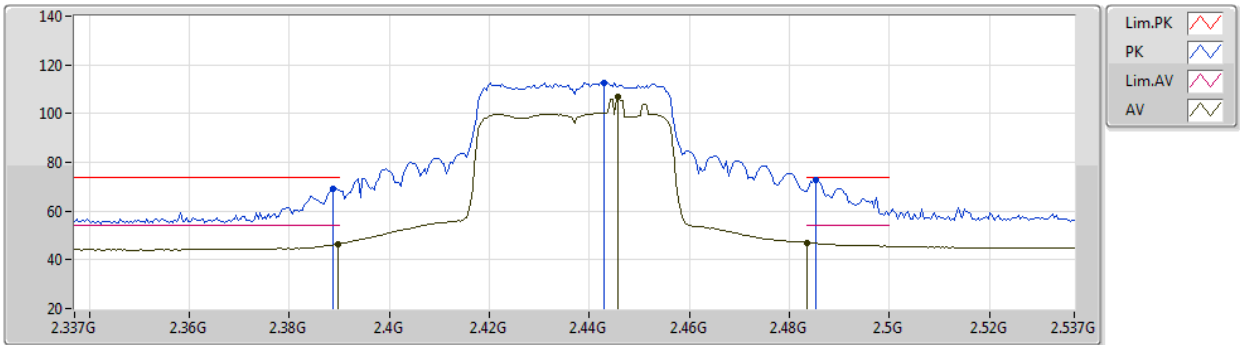
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Setting 13
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	70.40	74.00	-3.60	38.40	3	Vertical	347	1.46	-	28.27	3.73	-
AV	2.3898G	45.14	54.00	-8.86	13.13	3	Vertical	347	1.46	-	28.28	3.73	-
PK	2.4386G	111.14	Inf	-Inf	78.96	3	Vertical	347	1.46	-	28.42	3.76	-
AV	2.4458G	105.37	Inf	-Inf	73.16	3	Vertical	347	1.46	-	28.44	3.77	-
PK	2.4906G	73.89	74.00	-0.11	41.53	3	Vertical	347	1.46	-	28.57	3.79	-
AV	2.4835G	46.66	54.00	-7.34	14.32	3	Vertical	347	1.46	-	28.55	3.79	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



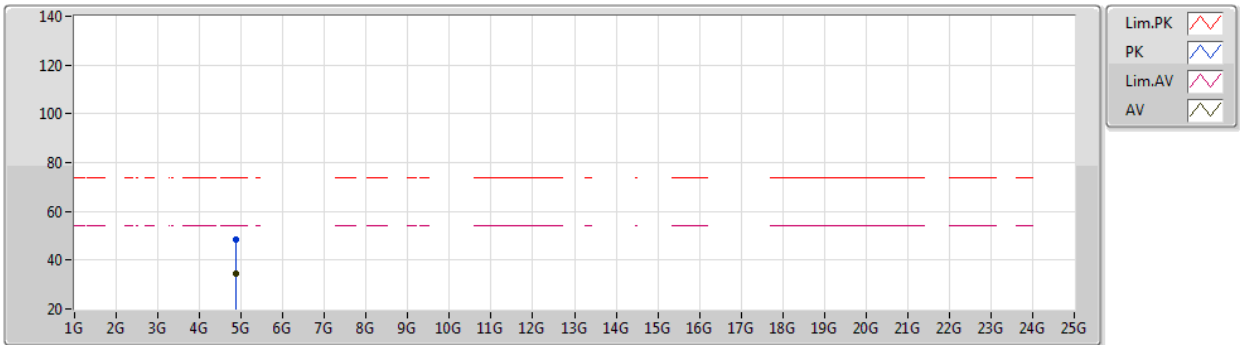
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Setting 13
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	69.16	74.00	-4.84	37.15	3	Horizontal	12	1.19	-	28.28	3.73	-
AV	2.3898G	46.56	54.00	-7.44	14.55	3	Horizontal	12	1.19	-	28.28	3.73	-
PK	2.443G	112.79	Inf	-Inf	80.59	3	Horizontal	12	1.19	-	28.43	3.77	-
AV	2.4458G	106.84	Inf	-Inf	74.63	3	Horizontal	12	1.19	-	28.44	3.77	-
PK	2.4854G	72.95	74.00	-1.05	40.60	3	Horizontal	12	1.19	-	28.56	3.79	-
AV	2.4835G	46.96	54.00	-7.04	14.62	3	Horizontal	12	1.19	-	28.55	3.79	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



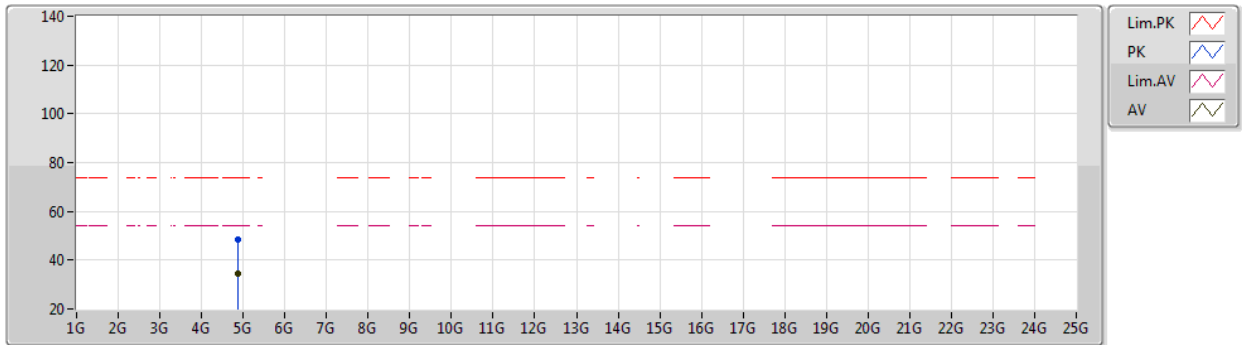
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Setting 13
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87886G	48.67	74.00	-25.33	43.21	3	Vertical	0	1.00	-	33.66	6.58	34.78
AV	4.88582G	34.54	54.00	-19.46	29.05	3	Vertical	0	1.00	-	33.67	6.59	34.77

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2437MHz_TX



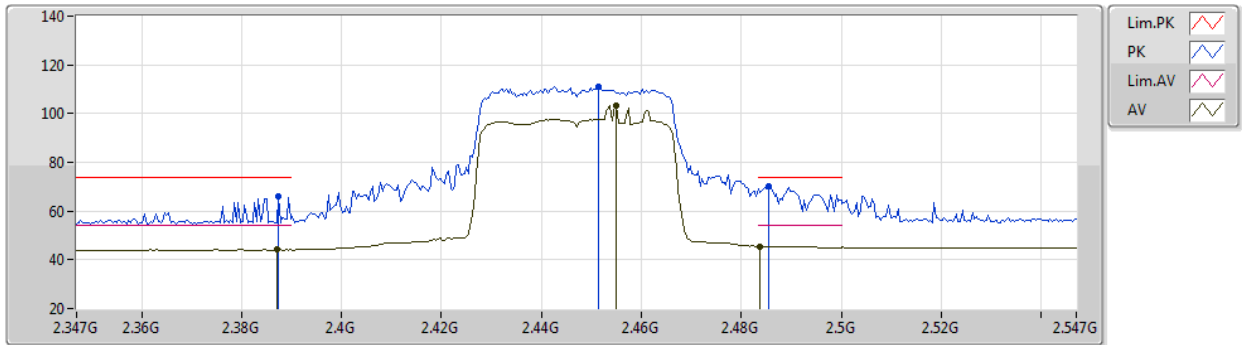
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Setting 13
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PK	4.88738G	48.45	74.00	-25.55	42.96	3	Horizontal	78	2.96	-	33.67	6.59	34.77
AV	4.88576G	34.54	54.00	-19.46	29.05	3	Horizontal	78	2.96	-	33.67	6.59	34.77

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2447MHz_TX



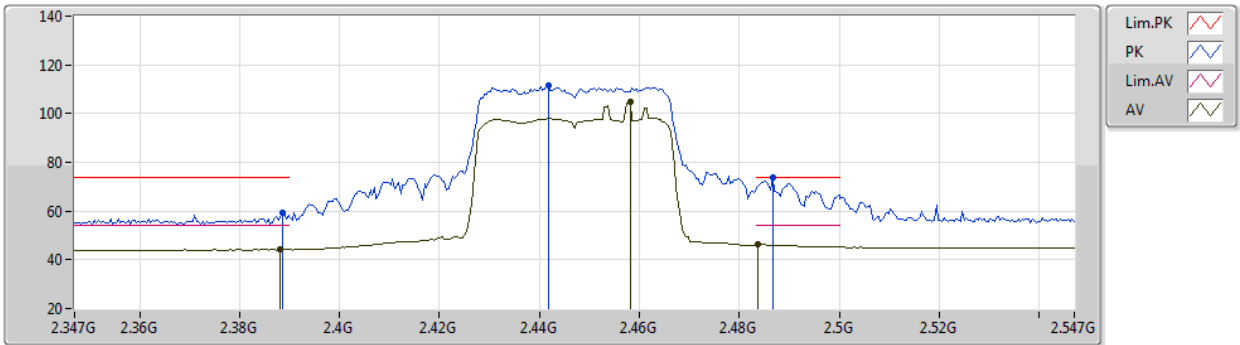
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Setting 11
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3874G	66.06	74.00	-7.94	34.06	3	Vertical	331	2.55	-	28.27	3.73	-
AV	2.387G	44.14	54.00	-9.86	12.14	3	Vertical	331	2.55	-	28.27	3.73	-
PK	2.4514G	111.05	Inf	-Inf	78.83	3	Vertical	331	2.55	-	28.45	3.77	-
AV	2.455G	103.33	Inf	-Inf	71.10	3	Vertical	331	2.55	-	28.46	3.77	-
PK	2.4854G	69.95	74.00	-4.05	37.60	3	Vertical	331	2.55	-	28.56	3.79	-
AV	2.4838G	45.45	54.00	-8.55	13.11	3	Vertical	331	2.55	-	28.55	3.79	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2447MHz_TX



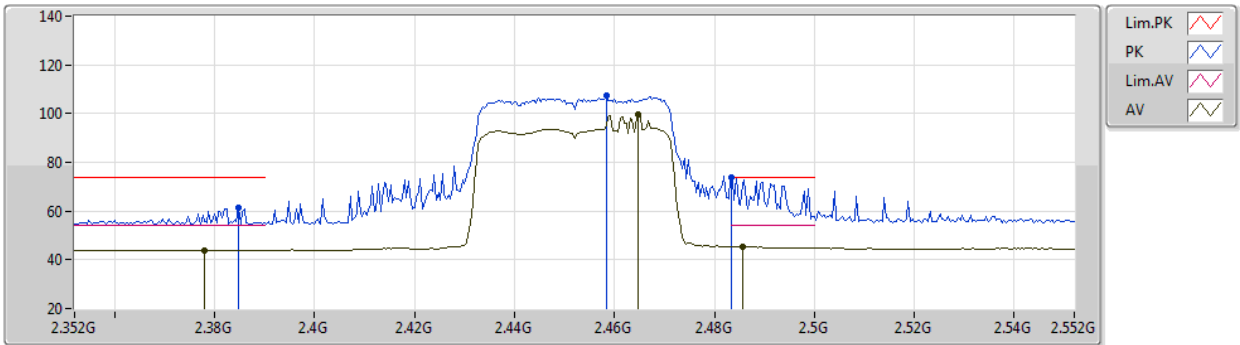
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Setting 11
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	59.40	74.00	-14.60	27.39	3	Horizontal	13	1.00	-	28.28	3.73	-
AV	2.3882G	44.14	54.00	-9.86	12.13	3	Horizontal	13	1.00	-	28.28	3.73	-
PK	2.4418G	111.40	Inf	-Inf	79.20	3	Horizontal	13	1.00	-	28.43	3.77	-
AV	2.4582G	104.68	Inf	-Inf	72.44	3	Horizontal	13	1.00	-	28.47	3.77	-
PK	2.4866G	73.95	74.00	-0.05	41.60	3	Horizontal	13	1.00	-	28.56	3.79	-
AV	2.4838G	46.18	54.00	-7.82	13.84	3	Horizontal	13	1.00	-	28.55	3.79	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2452MHz_TX



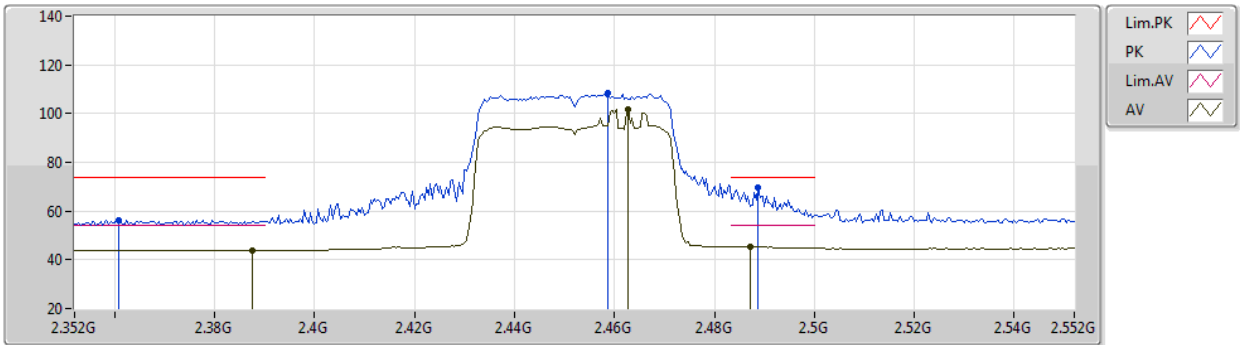
EUT Y_4TX
Setting 08
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3848G	61.45	74.00	-12.55	29.45	3	Vertical	345	1.45	-	28.27	3.73	-
AV	2.378G	43.92	54.00	-10.08	11.93	3	Vertical	345	1.45	-	28.26	3.73	-
PK	2.4584G	107.25	Inf	-Inf	74.99	3	Vertical	345	1.45	-	28.48	3.78	-
AV	2.4648G	99.90	Inf	-Inf	67.63	3	Vertical	345	1.45	-	28.49	3.78	-
AV	2.4856G	45.30	54.00	-8.70	12.95	3	Vertical	345	1.45	-	28.56	3.79	-
PK	2.4835G	73.95	74.00	-0.05	41.61	3	Vertical	345	1.45	-	28.55	3.79	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

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2452MHz_TX



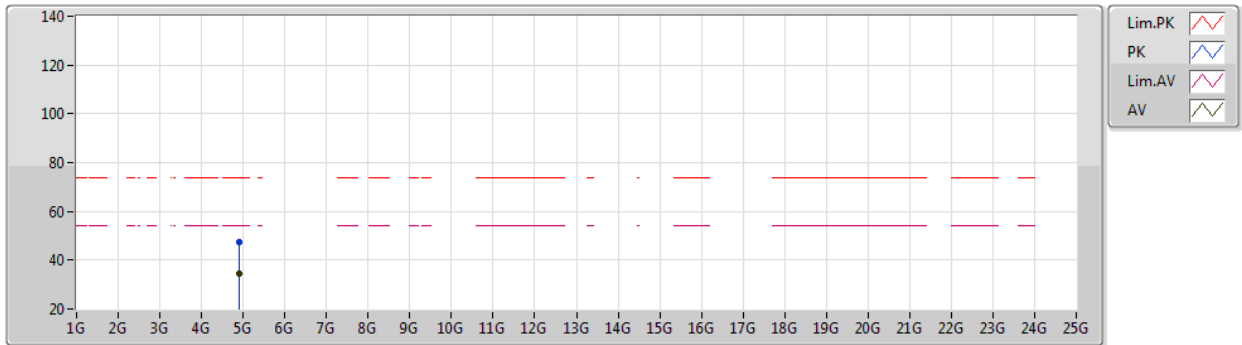
EUT Y_4TX
Setting 08
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3608G	56.44	74.00	-17.56	24.50	3	Horizontal	14	1.00	-	28.22	3.72	-
AV	2.3876G	44.03	54.00	-9.97	12.02	3	Horizontal	14	1.00	-	28.28	3.73	-
PK	2.4588G	108.31	Inf	-Inf	76.05	3	Horizontal	14	1.00	-	28.48	3.78	-
AV	2.4628G	101.76	Inf	-Inf	69.49	3	Horizontal	14	1.00	-	28.49	3.78	-
PK	2.4888G	69.54	74.00	-4.46	37.18	3	Horizontal	14	1.00	-	28.57	3.79	-
AV	2.4872G	45.50	54.00	-8.50	13.15	3	Horizontal	14	1.00	-	28.56	3.79	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

11/06/2020

2452MHz_TX



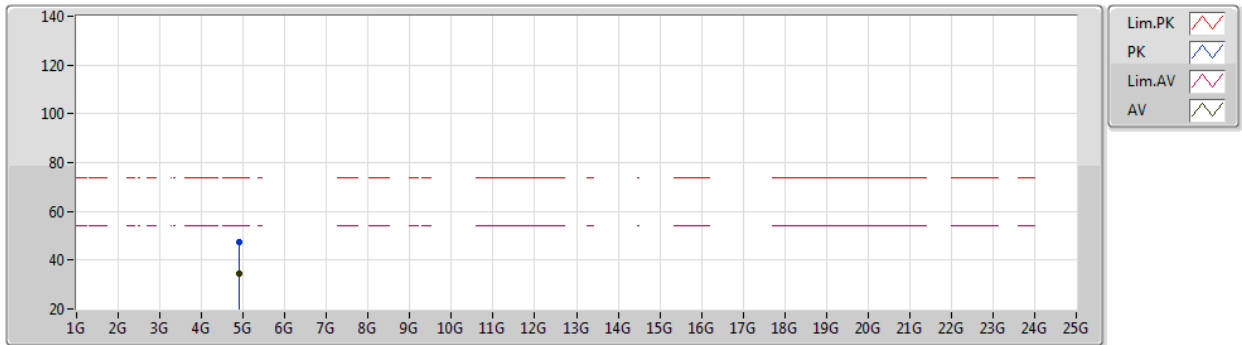
EUT Y_4TX
Setting 08
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90298G	47.53	74.00	-26.47	41.99	3	Vertical	87	1.23	-	33.71	6.59	34.76
AV	4.8971G	34.32	54.00	-19.68	28.80	3	Vertical	87	1.23	-	33.69	6.59	34.76

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EUT_Y_4TX
Setting 08
03-A-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.89044G	47.53	74.00	-26.47	42.03	3	Horizontal	16	1.88	-	33.68	6.59	34.77
AV	4.89668G	34.30	54.00	-19.70	28.78	3	Horizontal	16	1.88	-	33.69	6.59	34.76



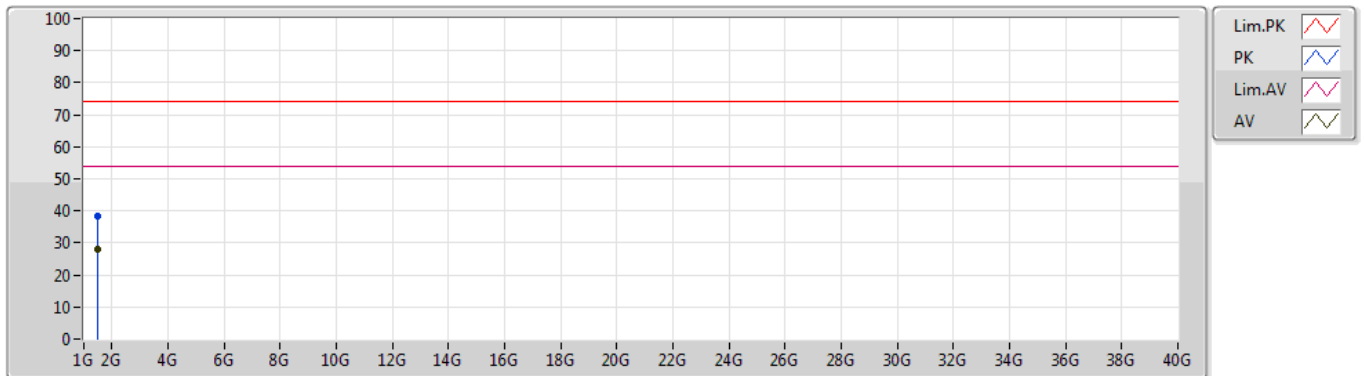
RSE Co-location Result

Appendix G

Summary

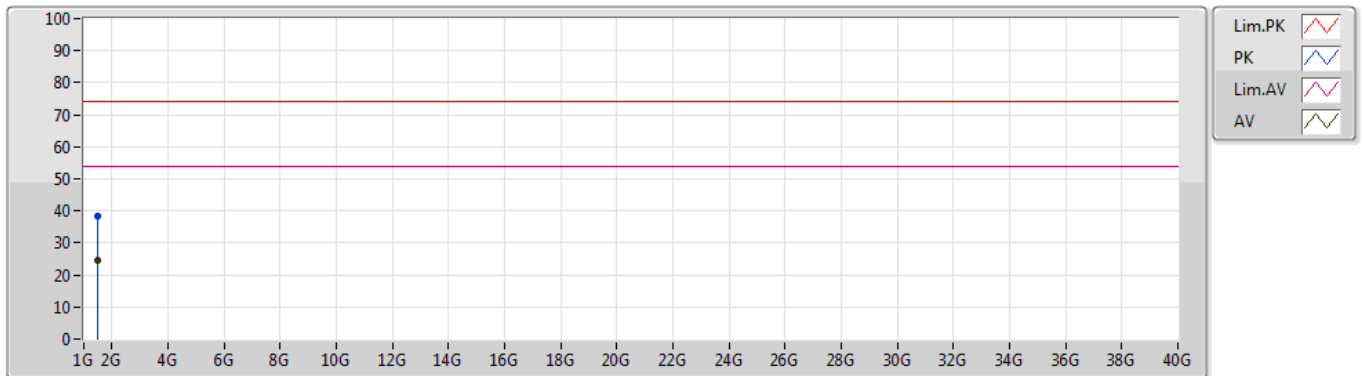
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.4999G	27.88	54.00	-26.12	Vertical

08/07/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	1.49773G	38.54	74.00	-35.46	-8.13	3	Vertical	165	1.00	-	46.67	25.60	3.29	37.02
AV	1.4999G	27.88	54.00	-26.12	-8.13	3	Vertical	165	1.00	"Worst"	36.01	25.60	3.29	37.02

08/07/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	1.49972G	38.43	74.00	-35.57	-8.13	3	Horizontal	49	2.08	-	46.56	25.60	3.29	37.02
AV	1.49989G	24.70	54.00	-29.30	-8.13	3	Horizontal	49	2.08	"Worst"	32.83	25.60	3.29	37.02