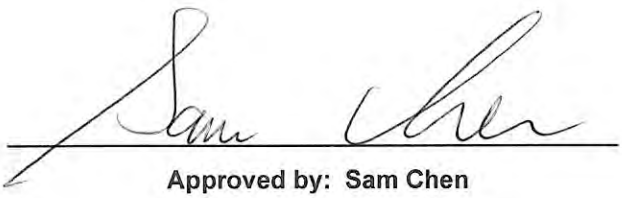
RADIO TEST REPORT

FCC ID	:	VW3FAST5295
Equipment	:	WiFi 6E Router
Brand Name	:	SAGEMCOM
Model Name	:	SAX2V1S
Applicant	:	SAGEMCOM BROADBAND SAS 250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX- FRANCE
Manufacturer	:	SAGEMCOM BROADBAND SAS 250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX- FRANCE
Standard	:	47 CFR FCC Part 15.247

The product was received on Jul. 01, 2022, and testing was started from Oct. 03, 2022 and completed on Nov. 29, 2022. We, Sporton International Inc. Hsinchu 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. Hsinchu Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

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Appendix H. Test Photos

Photographs of EUT v01

History of this test report

Report No.	Version	Description	Issued Date
FR263031AA	01	Initial issue of report	Nov. 30, 2022

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:
1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results. 2. The measurement uncertainty please refer to report "Measurement Uncertainty".
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: Sandy Chuang

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, 1024QAM 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	Ant. Type	Connector	Modes of Operation
	2.4GHz	5GHz	6GHz	GPS					
1	1	1	-	-	GALTRONICS	DB1	PIFA	I-PEX	2.4GHz and 5GHz UNII1~UNII4
2	2	3	-	-	GALTRONICS	DB2	PIFA	I-PEX	
3	3	2	-	-	GALTRONICS	DB3	PIFA	I-PEX	
4	4	4	-	-	GALTRONICS	DB4	PIFA	I-PEX	
5	-	5	1	-	GALTRONICS	ANT1	PIFA	I-PEX	5GHz UNII1~UNII4 and 6GHz UNII5~8
6	-	6	2	-	GALTRONICS	ANT2	PIFA	I-PEX	
7	-	7	3	-	GALTRONICS	ANT3	PIFA	I-PEX	
8	-	8	4	-	GALTRONICS	ANT4	PIFA	I-PEX	
9	-	-	5	-	GALTRONICS	6G1	PIFA	I-PEX	6GHz UNII5~8
10	-	-	6	-	GALTRONICS	6G2	PIFA	I-PEX	
11	-	-	7	-	GALTRONICS	6G3	PIFA	I-PEX	
12	-	-	8	-	GALTRONICS	6G4	PIFA	I-PEX	
13	-	-	-	1	GALTRONICS	GNSS	PIFA	I-PEX	GPS

<Antenna Gain>

Ant.	Antenna Gain (dBi)										
	2.4GHz	5GHz UNII 1	5GHz UNII 2A	5GHz UNII 2C	5GHz UNII 3	5GHz UNII 4	6GHz UNII 5	6GHz UNII 6	6GHz UNII 7	6GHz UNII 8	GPS
1	1.86	2.95	1.8	2.24	2.33	2.14	-	-	-	-	-
2	1.63	2.31	3.25	3.39	3.62	3.56	-	-	-	-	-
3	4.5	4.86	4.24	3.23	3.43	3.43	-	-	-	-	-
4	4.78	3.95	3.04	2.54	3.38	2.73	-	-	-	-	-
5	-	4.89	4.29	3.5	3.99	4.43	4.46	4.1	4.5	3.33	-
6	-	2.94	2.93	3.09	4.31	3.75	2.63	2.79	2.83	2.96	-
7	-	3.55	3.53	4.34	3.5	4.11	3.71	2.18	3.63	2.99	-
8	-	5.48	5.08	5.06	5.28	6.24	4.66	4.23	5.31	4.77	-
9	-	-	-	-	-	-	1.06	1.02	1.1	1.1	-
10	-	-	-	-	-	-	1.45	1.02	1.12	1.65	-
11	-	-	-	-	-	-	3.34	1.84	2.05	2	-
12	-	-	-	-	-	-	3.37	2.58	4	3.68	-
13	-	-	-	-	-	-	-	-	-	-	3.82

<Directional Gain>

DG	Directional Gain (dBi)
	2.4GHz
DG [1SS]	4.98

DG	Directional Gain (dBi)				
	5GHz UNII 1	5GHz UNII 2A	5GHz UNII 2C	5GHzUNII 3	5GHzUNII 4
DG [1SS] (dBi) option1	5.25	5.26	4.44	5.26	5.59
DG [1SS] (dBi) option2	4.55	3.75	3.74	4.17	4.69
DG [1SS] (dBi) option3	4.91	4.31	3.85	4.32	5.08
DG [1SS] (dBi) option4	4.24	3.9	3.94	4.18	3.74
DG [1SS] (dBi) option5	5.68	5.35	5.23	5.66	5.09
DG [1SS] (dBi) option6	4.33	3.54	4.19	4.43	4.65
DG [1SS] (dBi) option7	4.69	4.96	5.17	4.77	5.18
DG [1SS] (dBi) option8	5.57	4.88	3.91	4.79	3.91
DG [1SS] (dBi) option9	5.29	5.67	5.86	7.08	7.24
DG [1SS] (dBi) option10	5.4	5.15	4.82	5.9	6.13
DG [1SS] (dBi) option11	3.19	2.89	3.34	4.23	4.55
DG [1SS] (dBi) option12	3.92	3.82	4.46	4.85	3.91
DG [1SS] (dBi) option13	5.09	5.35	6.02	6.53	6.68
DG [1SS] (dBi) option14	5.38	5.06	4.88	5.52	5.48
DG [1SS] (dBi) option15	4.98	3.51	3.36	3.45	3.78
DG [1SS] (dBi) option16	5.18	4.17	3.71	4.56	4.08

DG	Directional Gain (dBi)			
	6GHz UNII 5	6GHz UNII 6	6GHz UNII 7	6GHz UNII 8
DG [1SS] (dBi) option1	3.24	4.73	5.38	4.81
DG [1SS] (dBi) option2	3.18	2.58	2.24	2.9
DG [1SS] (dBi) option3	4.66	4.96	5.5	4.76
DG [1SS] (dBi) option4	3.85	2.63	1.94	2.67
DG [1SS] (dBi) option5	3.51	4.15	5.24	4.73
DG [1SS] (dBi) option6	2.15	1.96	3.14	3.58
DG [1SS] (dBi) option7	4.02	4.2	5.36	4.74
DG [1SS] (dBi) option8	3.54	2.12	3.2	3.37
DG [1SS] (dBi) option9	3.44	4.17	4.41	4.33
DG [1SS] (dBi) option10	3.2	2.38	2.87	2.45
DG [1SS] (dBi) option11	5.12	4.52	4.55	5.1
DG [1SS] (dBi) option12	4.71	2.62	3.8	4.36
DG [1SS] (dBi) option13	3.46	3.87	4.44	4.12
DG [1SS] (dBi) option14	2.19	1.77	3.2	3.21
DG [1SS] (dBi) option15	5.9	4.24	4.58	5.05
DG [1SS] (dBi) option16	5.52	2.37	3.47	4.3

Note1: Maximum Directional Gain following KDB662911 D03.

Note2: The EUT doesn't enable the DFS band at this time.

Note3: The Ant. 13 for GPS used.

Note4: **<WLAN 2.4GHz function>**

For IEEE 802.11 b/g/n/VHT/ax (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.

<WLAN 5GHz function>

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

Port 1~8 can be used as transmitting/receiving antenna.

There are only four ports to be used at the same time.

UNII1

Port 1, Port 3, Port 6 and Port 7 generated the worst case, so it was selected to perform the test and its test result was written in the report.

UNII2C

Port 1, Port 3, Port 6 and Port 8 generated the worst case, so it was selected to perform the test and its test result was written in the report.

UNII2A and UNII3~4

Port 1, Port 3, Port 5 and Port 8 generated the worst case, so it was selected to perform the test and its test result was written in the report.

<WLAN 6GHz function>

For IEEE 802.11ax (4TX/4RX):

Port 1~8 can be used as transmitting/receiving antenna.

There are only four ports to be used at the same time.

UNII5

Port 1, Port 4, Port 6 and Port 8 generated the worst case, so it was selected to perform the test and its test result was written in the report.

UNII6~7

Port 1, Port 4, Port 5 and Port 7 generated the worst case, so it was selected to perform the test and its test result was written in the report.

UNII8

Port 1, Port 4, Port 5 and Port 8 generated the worst case, so it was selected to perform the test and its test result was written in the report.

1.1.3 Table of Antenna Configuration

The configuration of antenna option 1~16 are follows:

<For Ant.1~Ant.8>

Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7	Option 8
Ant.1	Ant.2	Ant.1	Ant.3	Ant.1	Ant.2	Ant.1	Ant.3
Ant.2	Ant.3	Ant.4	Ant.4	Ant.2	Ant.2	Ant.4	Ant.4
Ant.5	Ant.5	Ant.5	Ant.5	Ant.6	Ant.6	Ant.6	Ant.6
Ant.7	Ant.7	Ant.7	Ant.7	Ant.7	Ant.7	Ant.7	Ant.7
Option 9	**Option 10**	**Option 11**	**Option 12**	**Option 13**	**Option 14**	**Option 15**	**Option 16**
Ant.1	Ant.2	Ant.1	Ant.3	Ant.1	Ant.2	Ant.1	Ant.3
Ant.2	Ant.3	Ant.4	Ant.4	Ant.2	Ant.3	Ant.4	Ant.4
Ant.5	Ant.5	Ant.5	Ant.5	Ant.6	Ant.6	Ant.6	Ant.6
Ant.8	Ant.8	Ant.8	Ant.8	Ant.8	Ant.8	Ant.8	Ant.8

<For Ant.5~Ant.12>

Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7	Option 8
Ant.5	Ant.6	Ant.5	Ant.6	Ant.5	Ant.6	Ant.5	Ant.6
Ant.7	Ant.7	Ant.8	Ant.8	Ant.7	Ant.7	Ant.8	Ant.8
Ant.9	Ant.9	Ant.9	Ant.9	Ant.10	Ant.10	Ant.10	Ant.10
Ant.11	Ant.11	Ant.11	Ant.11	Ant.11	Ant.11	Ant.11	Ant.11
Option 9	**Option 10**	**Option 11**	**Option 12**	**Option 13**	**Option 14**	**Option 15**	**Option 16**
Ant.5	Ant.6	Ant.5	Ant.6	Ant.5	Ant.6	Ant.5	Ant.6
Ant.7	Ant.7	Ant.8	Ant.8	Ant.7	Ant.7	Ant.8	Ant.8
Ant.9	Ant.9	Ant.9	Ant.9	Ant.10	Ant.10	Ant.10	Ant.10
Ant.12	Ant.12	Ant.12	Ant.12	Ant.12	Ant.12	Ant.12	Ant.12

Note 1: The above information was declared by the manufacturer.

Note 2:

The directional gain of the maximum was selected to test.

<For Ant.1~Ant.8> Option 5 for 5GHz UNII1 and option 9 for 5GHz UNII3~4 have been tested and recorded in the test report.

<For Ant.5~Ant.12> Option 15 for 6GHz UNII5, Option 3 for 6GHz UNII6~7 and Option 11 for 6GHz UNII8 have been tested and recorded in the test report.

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.952	0.21	12.425m	100
802.11g	0.954	0.2	2.068m	1k
VHT20	0.982	0.08	n/a (DC>=0.98)	n/a (DC>=0.98)
VHT40	0.972	0.12	953.125u	3k
802.11ax HEW20	0.983	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	0.969	0.14	782.5u	3k

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.5 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz, n/ac/ax in 5GHz UNII 1/UNII 3~4, and ax in 6GHz UNII 5~UNII 8.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	Access Manual Tool 3.2.1.1			

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 15.247
- 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 D03 v01
- FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab.：Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Sean Ku	21.5~23.3 / 63~66	Oct. 25, 2022~ Nov. 05, 2022
Radiated <Below 1GHz>	03CH05-CB	KJ Chang	23.5~24 / 56~59	Oct. 03, 2022~ Nov. 12, 2022
Radiated <Above 1GHz>	03CH02-CB	KJ Chang	22.3~24.1 / 57~60	Oct. 03, 2022~ Nov. 12, 2022
Radiated <Co-location>	03CH05-CB	KJ Chang	23.5~24 / 56~59	Oct. 03, 2022~ Nov. 12, 2022
AC Conduction	CO01-CB	Tim Chen	23~24 / 53~54	Nov. 14, 2022~ Nov. 29, 2022

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

<Non-beamforming mode>

Mode	Power Setting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	93
2437MHz	91
2462MHz	94
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	96
2437MHz	94
2462MHz	98
VHT20_Nss1,(MCS0)_4TX	-
2412MHz	96
2437MHz	94
2462MHz	98
VHT40_Nss1,(MCS0)_4TX	-
2422MHz	96
2437MHz	94
2452MHz	96
802.11ax HEW20_Nss1,(MCS0)_4TX	-
2412MHz	96
2437MHz	94
2462MHz	98
802.11ax HEW40_Nss1,(MCS0)_4TX	-
2422MHz	96
2437MHz	94
2452MHz	96

<Beamforming mode>

Mode	Power Setting
VHT20-BF_Nss1,(MCS0)_4TX	-
2412MHz	96
2437MHz	94
2462MHz	98
VHT40-BF_Nss1,(MCS0)_4TX	-
2422MHz	96
2437MHz	94
2452MHz	96
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
2412MHz	96
2437MHz	94
2462MHz	98
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
2422MHz	96
2437MHz	94
2452MHz	96

Note:
- Evaluated VHT20/VHT40 mode only. Due to similar modulation, the power setting of HT20/HT40 mode are the same or lower than VHT20/VHT40.
- The EUT supports non-beamforming and beamforming modes, after evaluating, the non-beamforming mode has been evaluated to be the worst case, so it was selected to test. The beamforming mode evaluates the output power only.

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 Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	EUT + 2.4GHz + Adapter 1
2	EUT + 2.4GHz + Adapter 2
3	EUT + 2.4GHz + Adapter 3
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4~5 will follow this same test mode.	
4	EUT + 5GHz + Adapter 3
5	EUT + 6GHz + Adapter 3
For operating mode 3 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position for Radiated measurement<Above 1GHz>, and the worst case was found at Y axis position for 2.4GHz/5GHz and Z axis position for 6GHz.	
1	EUT in Y axis + 2.4GHz + Adapter 1
2	EUT in Y axis + 2.4GHz + Adapter 2
3	EUT in Y axis + 2.4GHz + Adapter 3
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4~5 will follow this same test mode.	
4	EUT in Y axis + 5GHz + Adapter 3
5	EUT in Z axis + 6GHz + Adapter 3
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position, and the worst case as below:	
1	EUT in Y axis

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 X axis, Y axis and Z axis position. EUT Y axis has been evaluated to be the worst case at Emissions in Radiated measurement <Above 1GHz> ; thus, the measurement will follow this same test configuration	
1	EUT in Y axis + 2.4GHz + 5GHz (UNII1/3/4) + 6GHz (UNII5~8)
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	2.4GHz + 5GHz (UNII1/3/4) + 6GHz (UNII5~8)
Refer to Sporton Test Report No.: FA263031 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories				
Equipment Name	**Brand Name**	**Model Name**	**Rating**	**Remark**
Adapter 1	Challenger Cable Sales	PS-2.5-12-3WT3	INPUT: 100-120V~50/60Hz, 1.0A OUTPUT: 12V, 3.0A	-
Adapter 2	NetBit	NBS36J120300VU	INPUT: 100-120V~, 50/60Hz, 1.0A OUTPUT: 12.0V, 3.0A	NB06
Adapter 3	NetBit	NBS36J120300VU	INPUT: 100-120V~, 50/60Hz, 1.0A OUTPUT: 12.0V, 3.0A	NB01

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E6430	N/A

For Radiated:

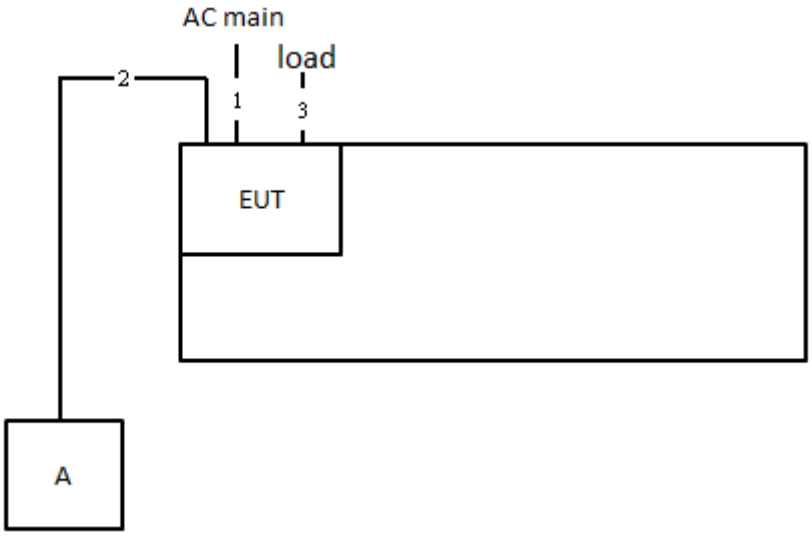
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A

For RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	Lanovo	X1 Carbon	PD962205ANSU

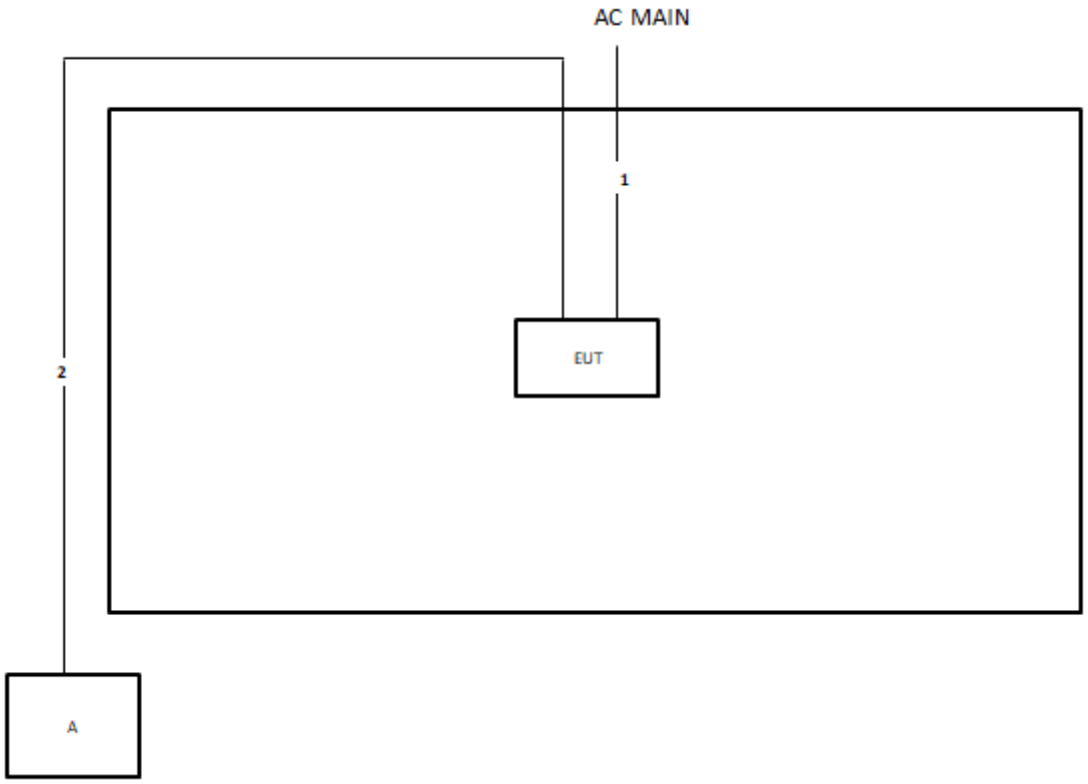
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	10m
3	RJ-45 cable*3	No	1m

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	10m

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

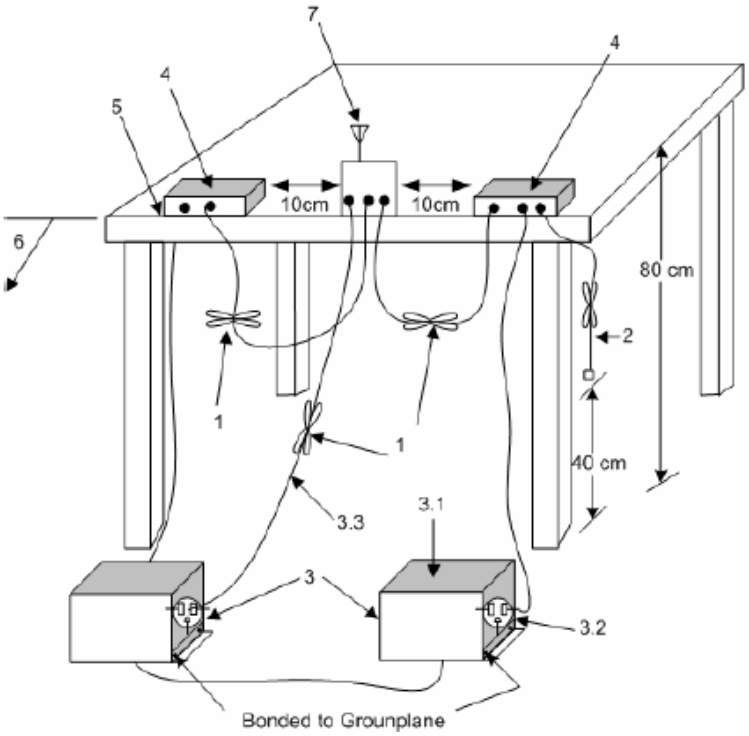
Refer a test equipment and calibration data table in this test report.

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

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

b. Margin = -Limit + Level

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 ≥ 500 kHz.

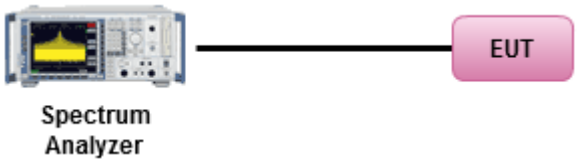
3.2.2 Measuring Instruments

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

Emission Bandwidth


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.		

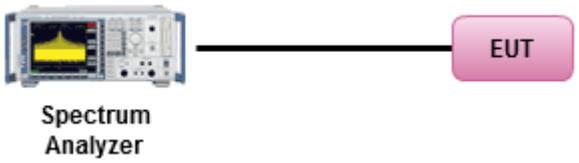
3.3.2 Measuring Instruments

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).
▪ 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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Spectrum Analyzer)


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

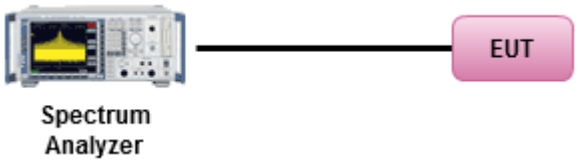
3.4.2 Measuring Instruments

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

Power Spectral Density


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

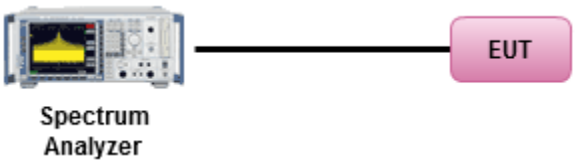
Refer a test equipment and calibration data table in this test report.

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

Emissions in Non-restricted Frequency Bands



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

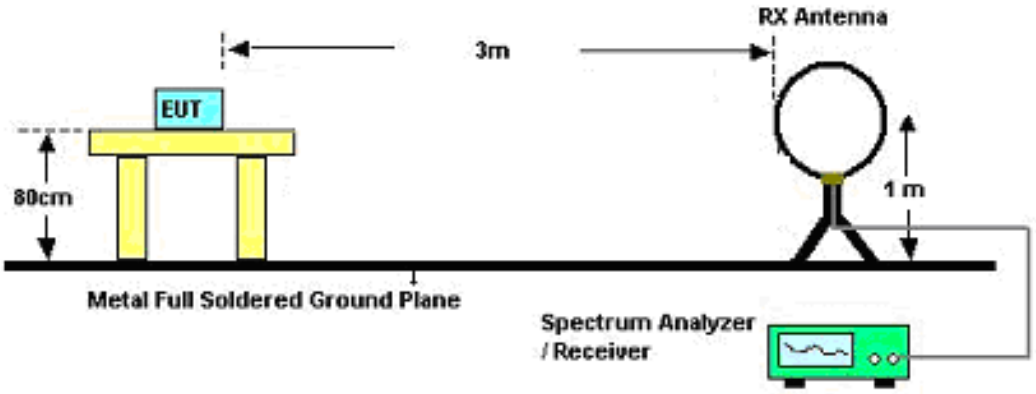
3.6.3 Test Procedures

Test Method			
▪ The average emission levels shall be measured in [duty cycle ≥ 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 ≥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≥1/T).
		☐	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 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.		

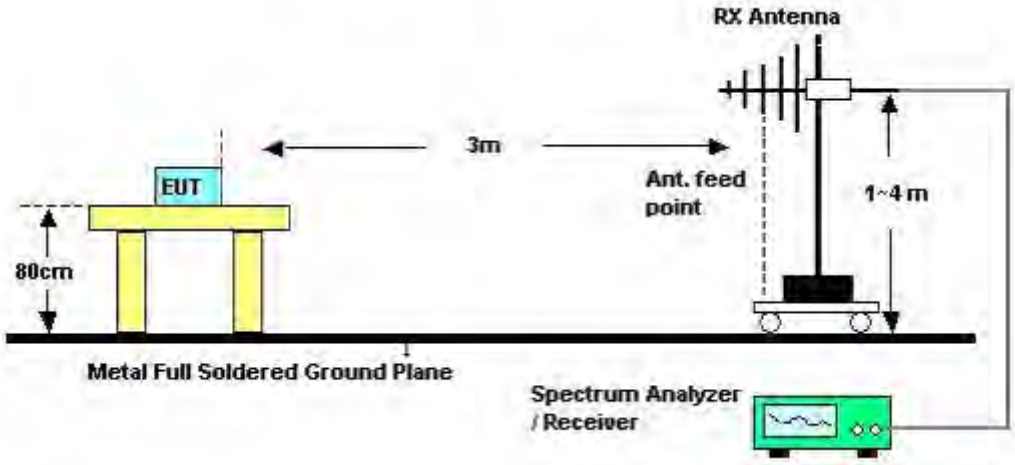
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

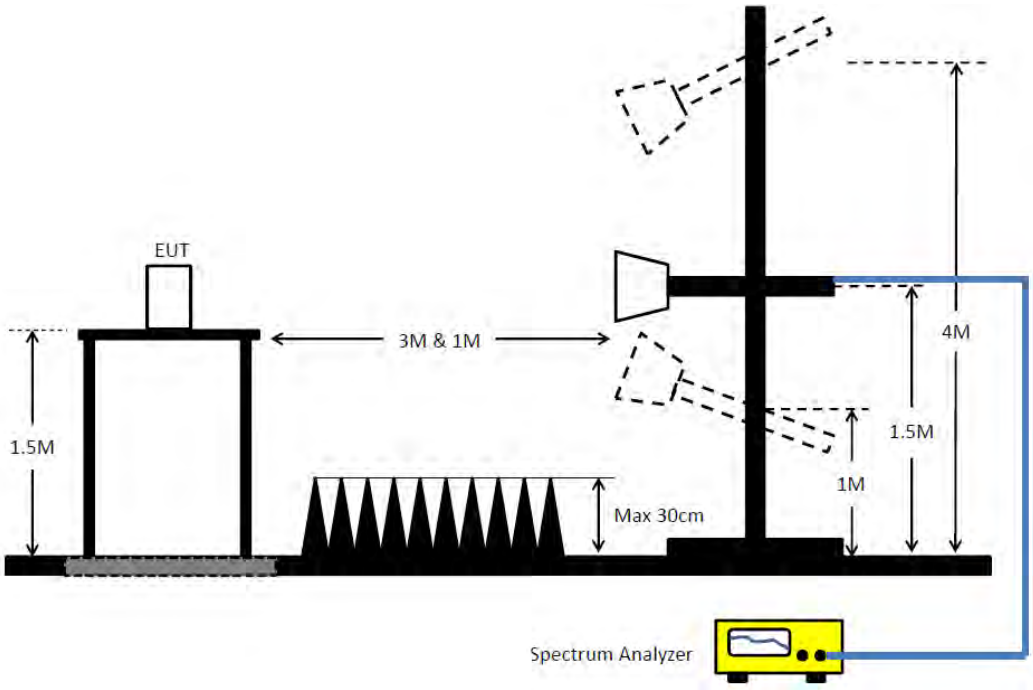
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(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 10th 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	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 06, 2022	Nov. 05, 2023	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBEAK	BBHA9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	Aug. 23 2022	Aug. 22 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 19, 2022	Apr. 18, 2023	Radiation (03CH02-CB)
Horn Antenna	SCHWARZBEAK	BBHA9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH02-CB)
Pre-Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	Aug. 23 2022	Aug. 22 2023	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSP	100593	9kHz~40GHz	Apr. 08, 2022	Apr. 07, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1531344	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1728002	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Switch	SPTCB	SP-SWI	SWI-03	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

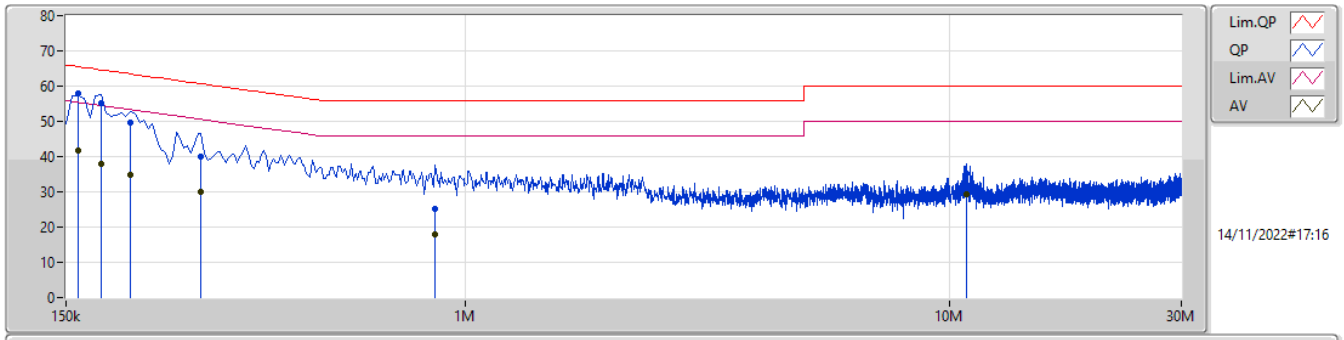
Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.

Summary

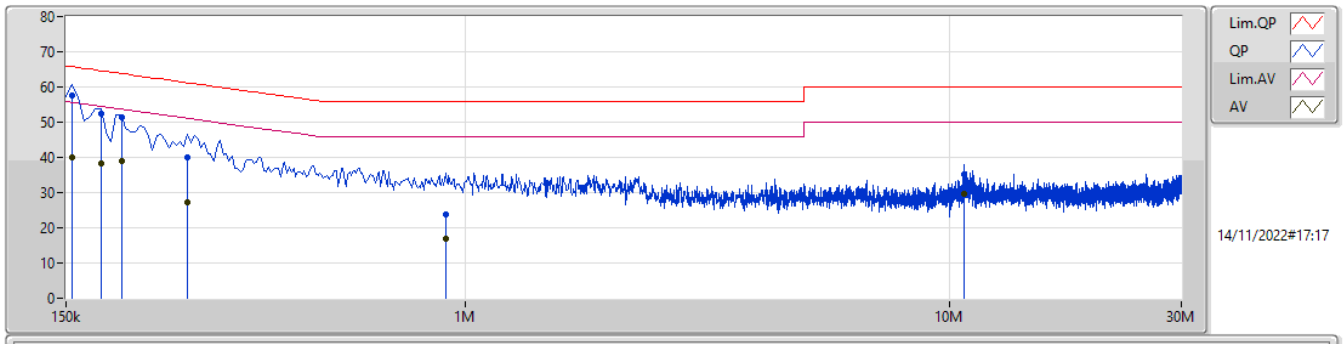
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	QP	159k	57.79	65.52	-7.73	Line

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	159k	57.79	65.52	-7.73	9.99	Line	"Worst"	47.80	0.06	0.04	9.89
AV	159k	41.59	55.52	-13.93	9.99	Line	-	31.60	0.06	0.04	9.89
QP	177k	55.12	64.62	-9.50	9.99	Line	-	45.13	0.06	0.04	9.89
AV	177k	38.05	54.62	-16.57	9.99	Line	-	28.06	0.06	0.04	9.89
QP	204k	49.60	63.44	-13.84	9.99	Line	-	39.61	0.06	0.04	9.89
AV	204k	34.88	53.44	-18.56	9.99	Line	-	24.89	0.06	0.04	9.89
QP	285k	39.91	60.67	-20.76	10.00	Line	-	29.91	0.06	0.05	9.89
AV	285k	29.84	50.67	-20.83	10.00	Line	-	19.84	0.06	0.05	9.89
QP	865.5k	25.03	56.00	-30.97	10.00	Line	-	15.03	0.07	0.04	9.89
AV	865.5k	17.89	46.00	-28.11	10.00	Line	-	7.89	0.07	0.04	9.89
QP	10.797M	35.11	60.00	-24.89	10.31	Line	-	24.80	0.23	0.16	9.92
AV	10.797M	29.33	50.00	-20.67	10.31	Line	-	19.02	0.23	0.16	9.92

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	154.5k	57.66	65.75	-8.09	10.00	Neutral	"Worst"	47.66	0.07	0.04	9.89
AV	154.5k	39.87	55.75	-15.88	10.00	Neutral	-	29.87	0.07	0.04	9.89
QP	177k	52.54	64.62	-12.08	10.00	Neutral	-	42.54	0.07	0.04	9.89
AV	177k	38.28	54.62	-16.34	10.00	Neutral	-	28.28	0.07	0.04	9.89
QP	195k	51.36	63.82	-12.46	10.00	Neutral	-	41.36	0.07	0.04	9.89
AV	195k	39.00	53.82	-14.82	10.00	Neutral	-	29.00	0.07	0.04	9.89
QP	267k	40.11	61.20	-21.09	10.01	Neutral	-	30.10	0.07	0.05	9.89
AV	267k	27.39	51.20	-23.81	10.01	Neutral	-	17.38	0.07	0.05	9.89
QP	910.5k	23.80	56.00	-32.20	10.01	Neutral	-	13.79	0.08	0.04	9.89
AV	910.5k	16.96	46.00	-29.04	10.01	Neutral	-	6.95	0.08	0.04	9.89
QP	10.698M	35.12	60.00	-24.88	10.32	Neutral	-	24.80	0.25	0.16	9.91
AV	10.698M	29.69	50.00	-20.31	10.32	Neutral	-	19.37	0.25	0.16	9.91

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	7.525M	10.324M	10M3G1D	6.55M	10.185M
802.11g_Nss1,(6Mbps)_4TX	16.325M	17.26M	17M3D1D	16.025M	16.785M
VHT20_Nss1,(MCS0)_4TX	17.6M	18.131M	18M1D1D	16.925M	17.883M
VHT40_Nss1,(MCS0)_4TX	36.35M	36.726M	36M7D1D	35.7M	36.532M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.85M	19.123M	19M1D1D	17.8M	19.007M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.85M	38.128M	38M1D1D	36.5M	37.857M

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

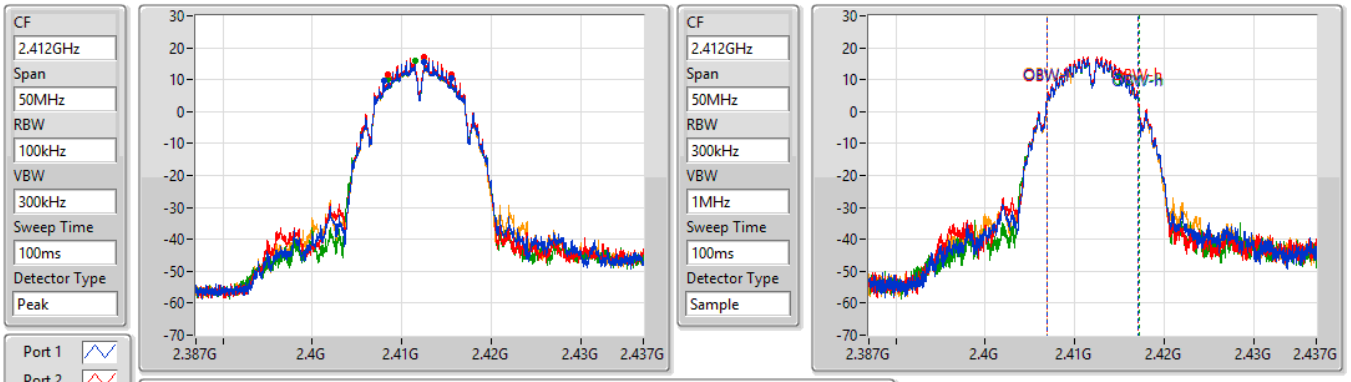
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	7.525M	10.235M	7M	10.229M	7M	10.306M	7.025M	10.185M
2437MHz	Pass	500k	6.55M	10.292M	7.05M	10.312M	7.05M	10.312M	6.55M	10.267M
2462MHz	Pass	500k	7.075M	10.24M	7.05M	10.323M	7.05M	10.324M	7.025M	10.204M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.821M	16.325M	16.837M	16.3M	16.862M	16.325M	16.845M
2437MHz	Pass	500k	16.325M	16.807M	16.325M	16.791M	16.3M	16.785M	16.325M	16.822M
2462MHz	Pass	500k	16.325M	17.26M	16.325M	17.155M	16.325M	16.908M	16.025M	16.862M
VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	17.425M	17.883M	17.55M	18.01M	17.525M	18.014M	17.55M	17.99M
2437MHz	Pass	500k	17.25M	17.916M	17.55M	17.943M	17.6M	17.91M	17.55M	17.912M
2462MHz	Pass	500k	17.3M	18.131M	17.55M	18.076M	16.925M	17.921M	17.25M	17.91M
VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	35.9M	36.606M	36.3M	36.532M	35.9M	36.584M	36.25M	36.589M
2437MHz	Pass	500k	36M	36.726M	36.3M	36.723M	36.3M	36.607M	36.35M	36.698M
2452MHz	Pass	500k	35.7M	36.664M	36.35M	36.61M	36.25M	36.654M	35.75M	36.568M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.55M	19.037M	18.825M	19.042M	18.325M	19.123M	18.7M	19.06M
2437MHz	Pass	500k	18.825M	19.06M	18.85M	19.043M	18.8M	19.067M	18.8M	19.007M
2462MHz	Pass	500k	18.05M	19.047M	18.75M	19.064M	18.625M	19.036M	17.8M	19.031M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.85M	37.965M	37.65M	38.017M	37.8M	37.972M	37.65M	37.922M
2437MHz	Pass	500k	37.7M	38.11M	37.65M	38.128M	37.6M	38.112M	37.5M	38.085M
2452MHz	Pass	500k	37.1M	37.905M	37.05M	37.97M	37.1M	37.917M	36.5M	37.857M

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

802.11b_Nss1,(1Mbps)_4TX EBW

2412MHz

04/10/2022

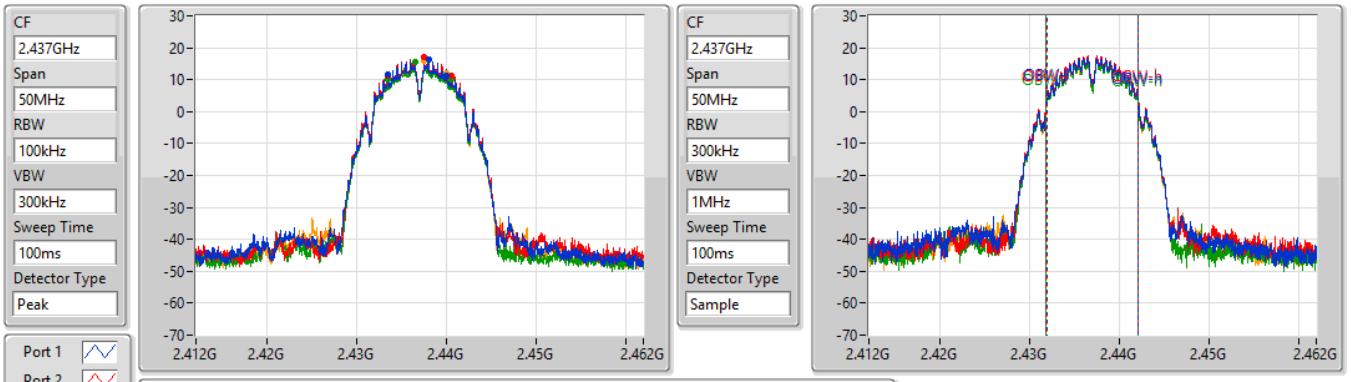


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.525M	2.407975G	2.4155G	10.235M	2.406883G	2.417119G	500k	1
7M	2.4085G	2.4155G	10.229M	2.406896G	2.417125G	500k	2
7M	2.4085G	2.4155G	10.306M	2.406852G	2.417158G	500k	3
7.025M	2.4085G	2.415525G	10.185M	2.406912G	2.417097G	500k	4

802.11b_Nss1,(1Mbps)_4TX EBW

2437MHz

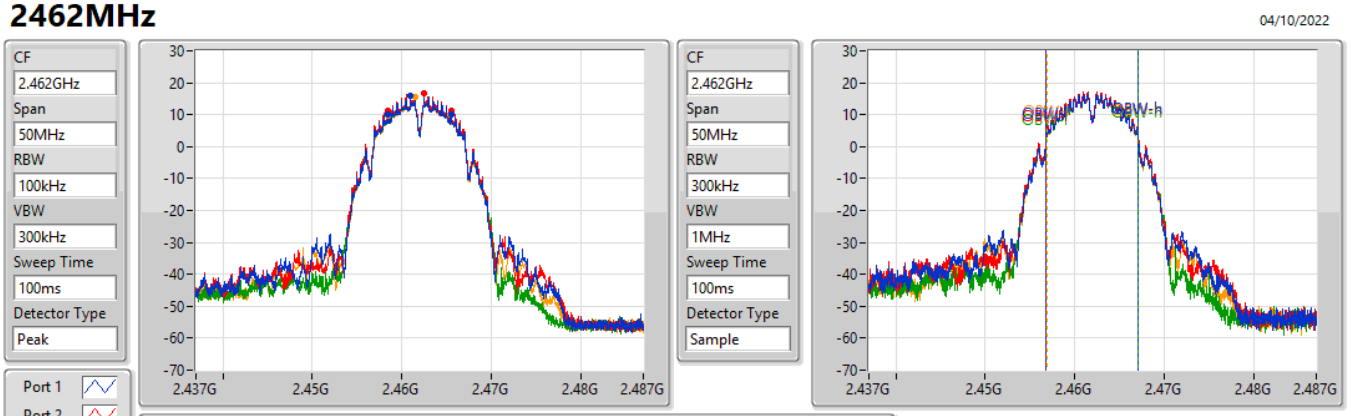
04/10/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
6.55M	2.433475G	2.440025G	10.292M	2.431855G	2.442147G	500k	1
7.05M	2.433475G	2.440525G	10.312M	2.431837G	2.44215G	500k	2
7.05M	2.433475G	2.440525G	10.312M	2.431834G	2.442145G	500k	3
6.55M	2.433475G	2.440025G	10.267M	2.431847G	2.442114G	500k	4

802.11b_Nss1,(1Mbps)_4TX EBW

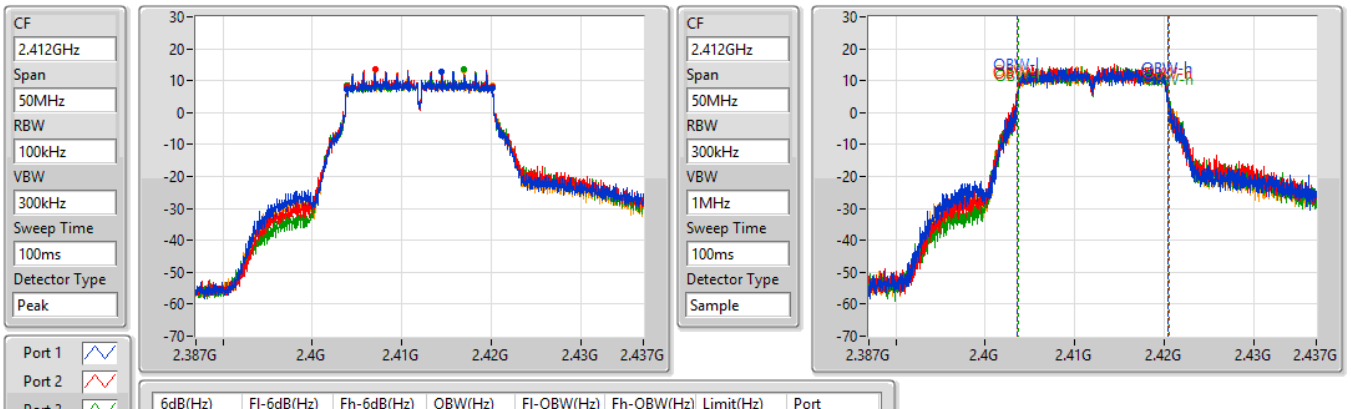
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.075M	2.45845G	2.465525G	10.24M	2.456835G	2.467074G	500k	1
7.05M	2.458475G	2.465525G	10.323M	2.456775G	2.467098G	500k	2
7.05M	2.458475G	2.465525G	10.324M	2.456788G	2.467112G	500k	3
7.025M	2.45845G	2.465475G	10.204M	2.456859G	2.467063G	500k	4

802.11g_Nss1,(6Mbps)_4TX EBW

2412MHz

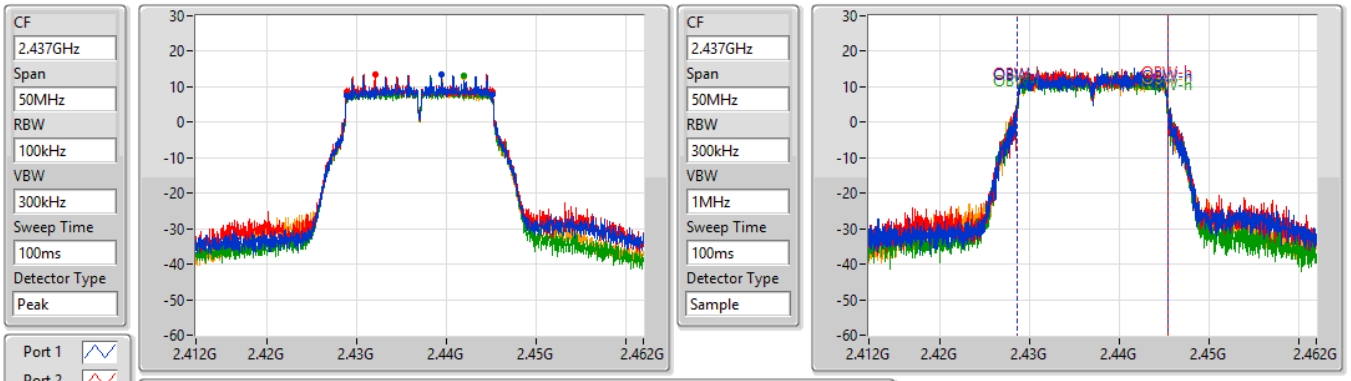


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.403825G	2.42015G	16.821M	2.403623G	2.420443G	500k	1
16.325M	2.403825G	2.42015G	16.837M	2.403584G	2.420421G	500k	2
16.3M	2.40385G	2.42015G	16.862M	2.403651G	2.420513G	500k	3
16.325M	2.403825G	2.42015G	16.845M	2.403624G	2.420469G	500k	4

802.11g_Nss1,(6Mbps)_4TX EBW

2437MHz

04/10/2022

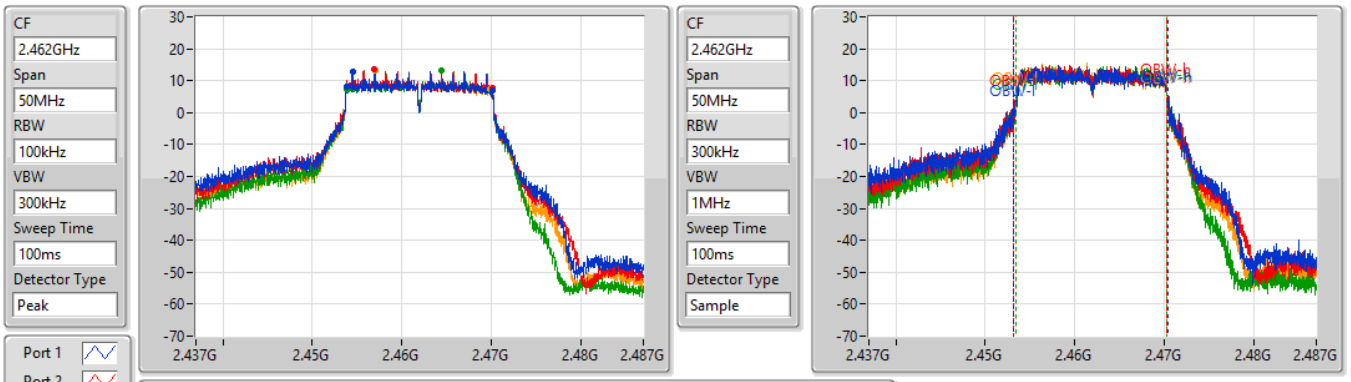


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.428825G	2.44515G	16.807M	2.428603G	2.44541G	500k	1
16.325M	2.428825G	2.44515G	16.791M	2.428589G	2.44538G	500k	2
16.3M	2.42885G	2.44515G	16.785M	2.428577G	2.445362G	500k	3
16.325M	2.428825G	2.44515G	16.822M	2.428542G	2.445364G	500k	4

802.11g_Nss1,(6Mbps)_4TX EBW

2462MHz

04/10/2022

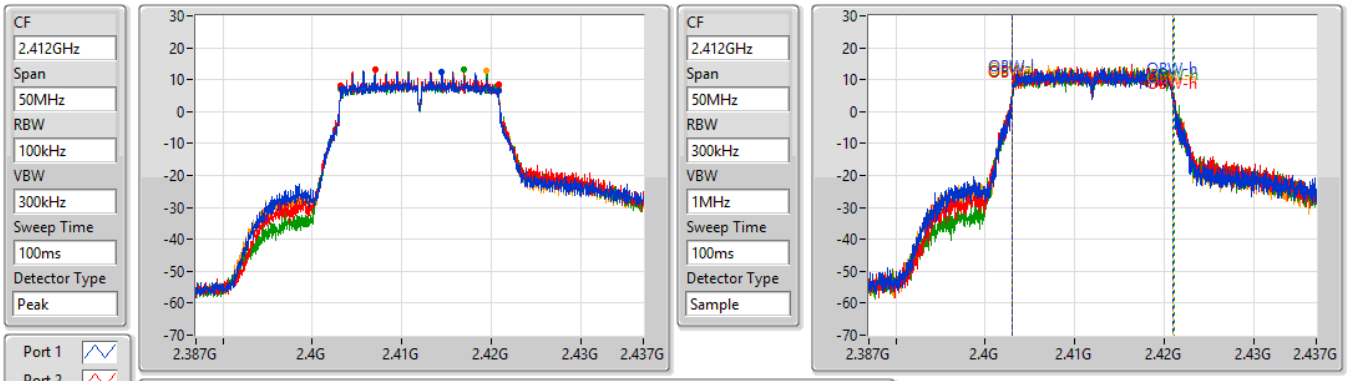


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.453825G	2.47015G	17.26M	2.453153G	2.470413G	500k	1
16.325M	2.453825G	2.47015G	17.155M	2.4532G	2.470355G	500k	2
16.325M	2.453825G	2.47015G	16.908M	2.453418G	2.470326G	500k	3
16.025M	2.453825G	2.46985G	16.862M	2.453477G	2.470339G	500k	4

VHT20_Nss1,(MCS0)_4TX EBW

2412MHz

04/11/2022

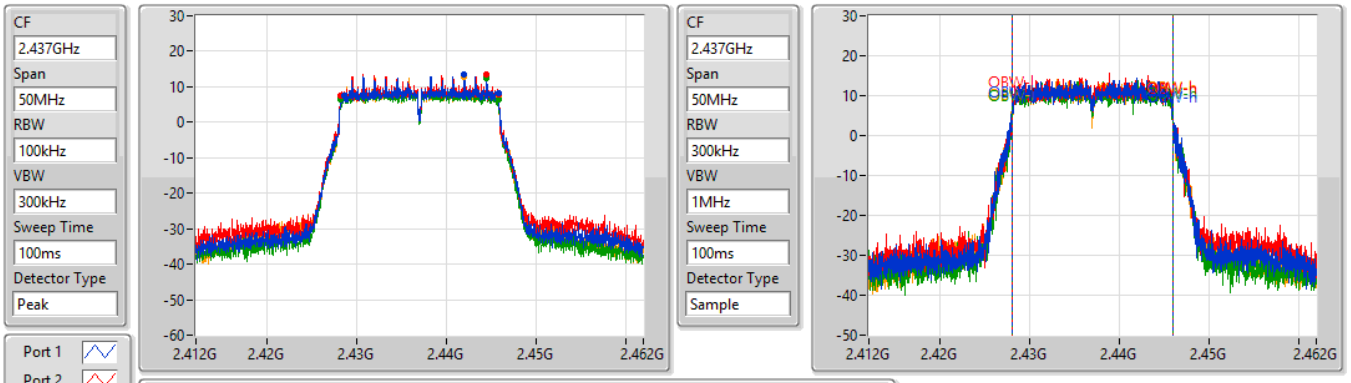


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.425M	2.40335G	2.420775G	17.883M	2.403076G	2.420959G	500k	1
17.55M	2.403225G	2.420775G	18.01M	2.403035G	2.421045G	500k	2
17.525M	2.403225G	2.42075G	18.014M	2.403066G	2.42108G	500k	3
17.55M	2.403225G	2.420775G	17.99M	2.403024G	2.421014G	500k	4

VHT20_Nss1,(MCS0)_4TX EBW

2437MHz

04/11/2022

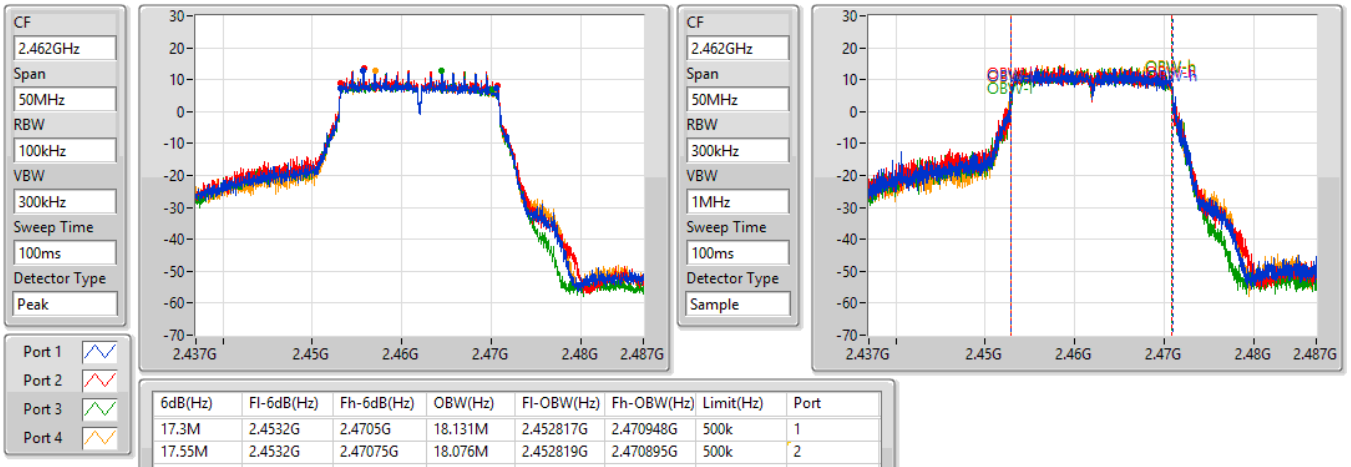


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.25M	2.428525G	2.445775G	17.916M	2.428021G	2.445937G	500k	1
17.55M	2.428225G	2.445775G	17.943M	2.428009G	2.445951G	500k	2
17.6M	2.4282G	2.4458G	17.91M	2.428029G	2.445938G	500k	3
17.55M	2.428225G	2.445775G	17.912M	2.428009G	2.445921G	500k	4

VHT20_Nss1,(MCS0)_4TX EBW

2462MHz

04/11/2022

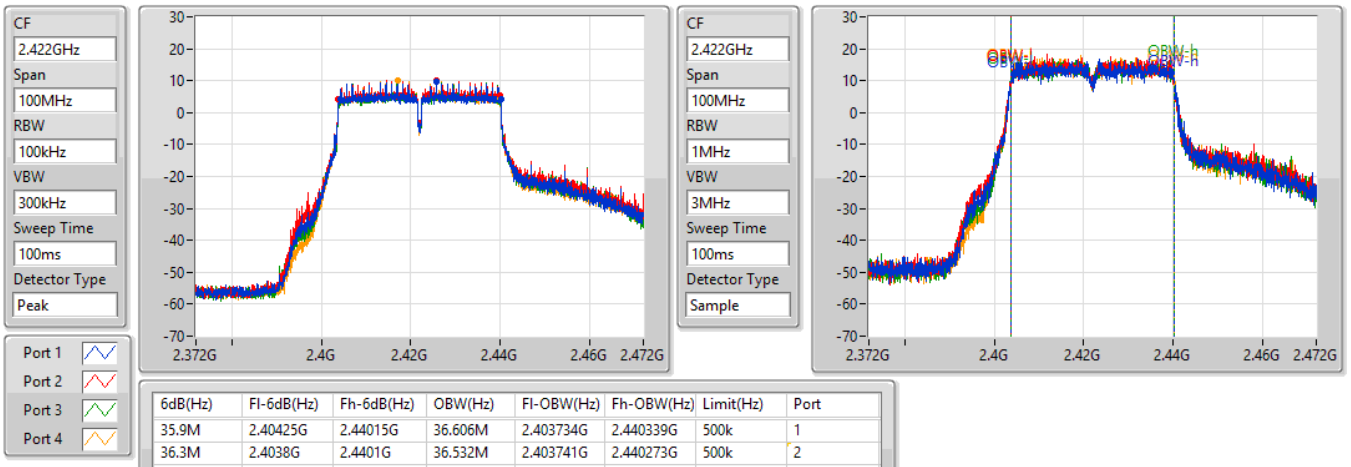


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.3M	2.4532G	2.4705G	18.131M	2.452817G	2.470948G	500k	1
17.55M	2.4532G	2.47075G	18.076M	2.452819G	2.470895G	500k	2
16.925M	2.4532G	2.470125G	17.921M	2.452911G	2.470832G	500k	3
17.25M	2.453225G	2.470475G	17.91M	2.452928G	2.470837G	500k	4

VHT40_Nss1,(MCS0)_4TX EBW

2422MHz

04/11/2022



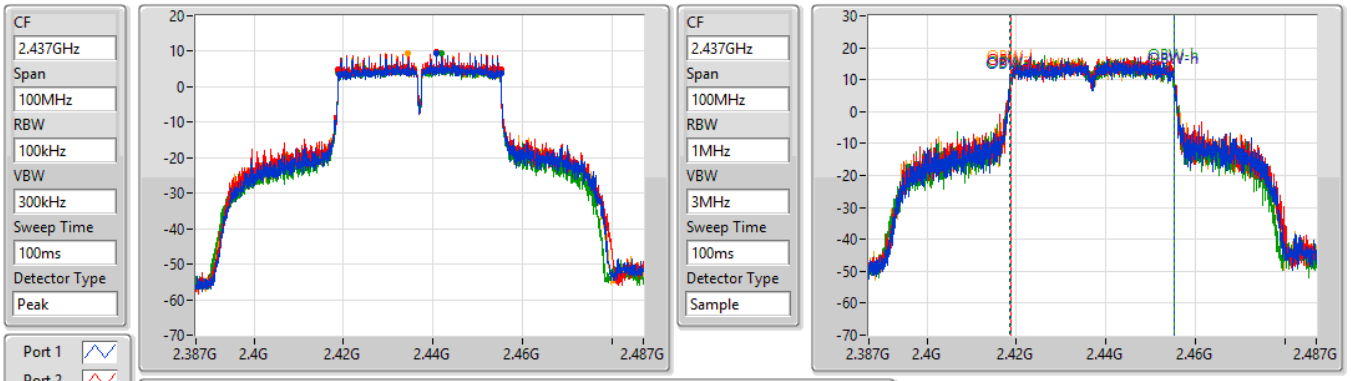
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.9M	2.40425G	2.44015G	36.606M	2.403734G	2.440339G	500k	1
36.3M	2.4038G	2.4401G	36.532M	2.403741G	2.440273G	500k	2
35.9M	2.40425G	2.44015G	36.584M	2.40373G	2.440314G	500k	3
36.25M	2.40385G	2.4401G	36.589M	2.403705G	2.440294G	500k	4

VHT40_Nss1,(MCS0)_4TX

EBW

2437MHz

04/11/2022



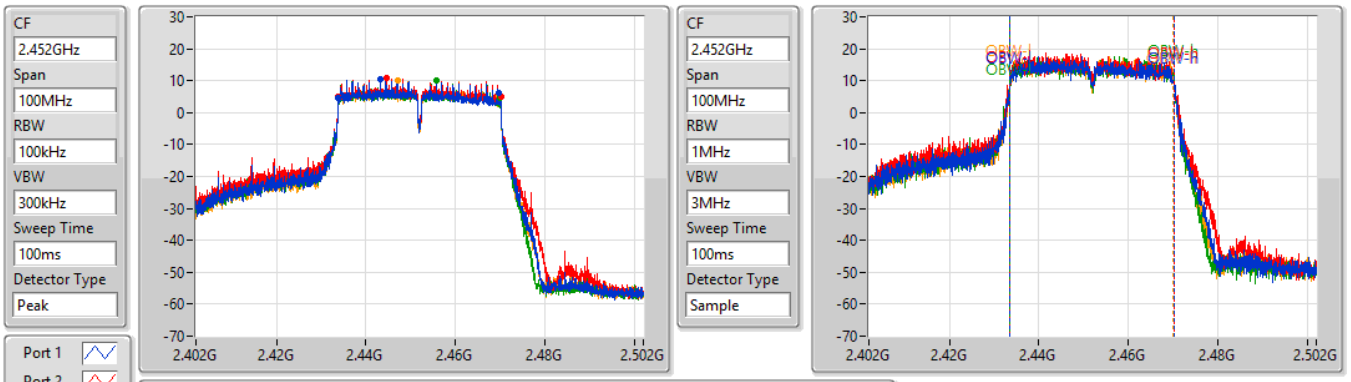
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36M	2.41915G	2.45515G	36.726M	2.418607G	2.455333G	500k	1
36.3M	2.41885G	2.45515G	36.723M	2.418623G	2.455346G	500k	2
36.3M	2.41885G	2.45515G	36.607M	2.418649G	2.455257G	500k	3
36.35M	2.4188G	2.45515G	36.698M	2.418616G	2.455314G	500k	4

VHT40_Nss1,(MCS0)_4TX

EBW

2452MHz

04/11/2022

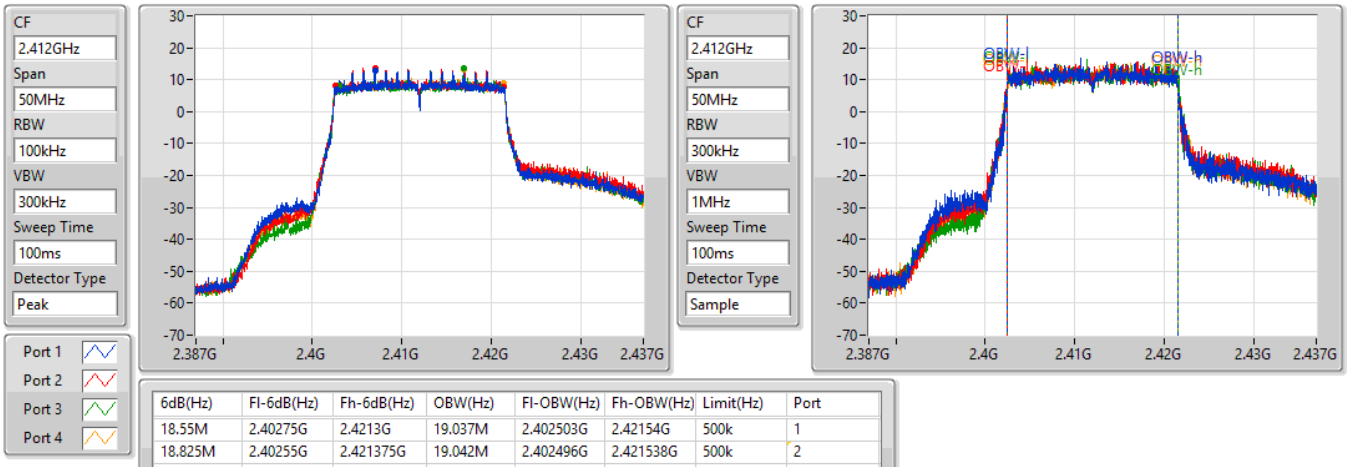


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.7M	2.43385G	2.46955G	36.664M	2.433534G	2.470198G	500k	1
36.35M	2.4338G	2.47015G	36.61M	2.433501G	2.470111G	500k	2
36.25M	2.43385G	2.4701G	36.654M	2.433473G	2.470127G	500k	3
35.75M	2.4338G	2.46955G	36.568M	2.433523G	2.470091G	500k	4

802.11ax HEW20_Nss1,(MCS0)_4TX EBW

2412MHz

04/10/2022

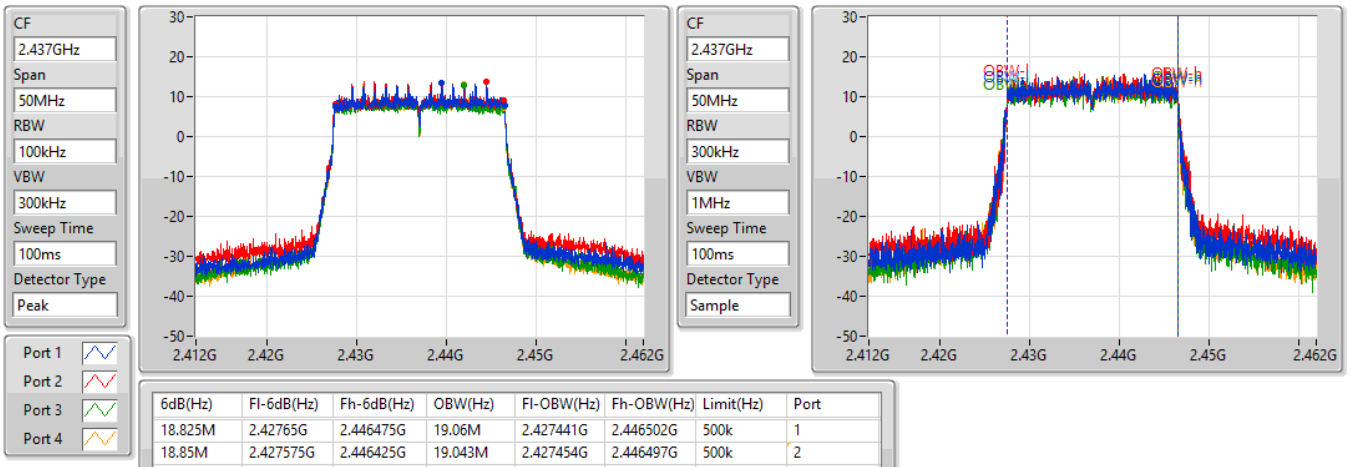


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.55M	2.40275G	2.4213G	19.037M	2.402503G	2.42154G	500k	1
18.825M	2.40255G	2.421375G	19.042M	2.402496G	2.421538G	500k	2
18.325M	2.402975G	2.4213G	19.123M	2.402469G	2.421592G	500k	3
18.7M	2.402675G	2.421375G	19.06M	2.402477G	2.421538G	500k	4

802.11ax HEW20_Nss1,(MCS0)_4TX EBW

2437MHz

04/10/2022

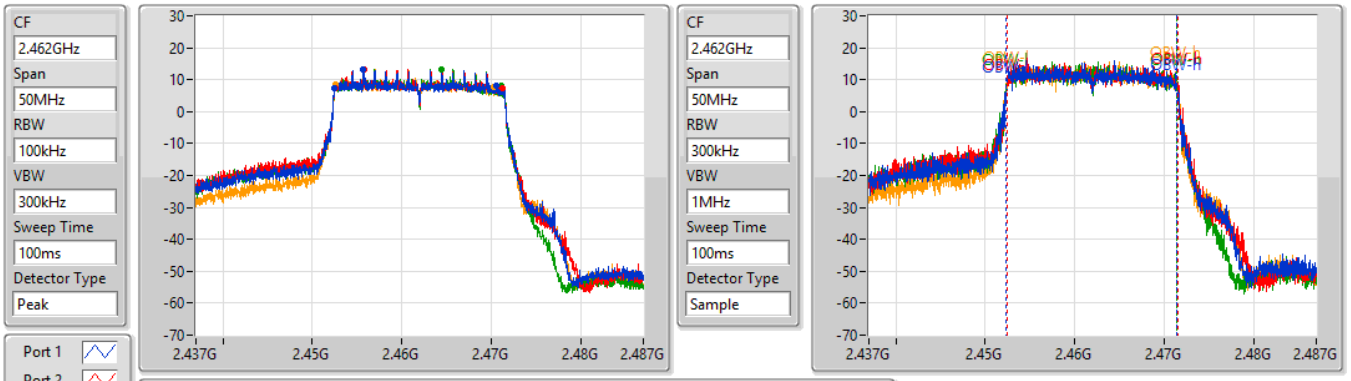


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.825M	2.42765G	2.446475G	19.06M	2.427441G	2.446502G	500k	1
18.85M	2.427575G	2.446425G	19.043M	2.427454G	2.446497G	500k	2
18.8M	2.42755G	2.44635G	19.067M	2.427423G	2.44649G	500k	3
18.8M	2.427625G	2.446425G	19.007M	2.427464G	2.446472G	500k	4

802.11ax HEW20_Nss1,(MCS0)_4TX EBW

2462MHz

04/10/2022

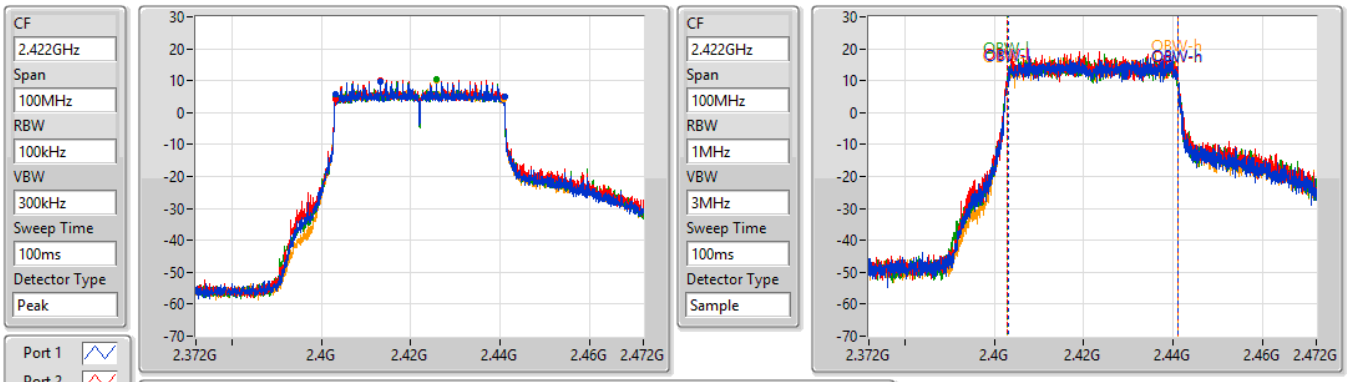


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.05M	2.4525G	2.47055G	19.047M	2.452389G	2.471437G	500k	1
18.75M	2.45255G	2.4713G	19.064M	2.452422G	2.471487G	500k	2
18.625M	2.45255G	2.471175G	19.036M	2.452382G	2.471418G	500k	3
17.8M	2.45255G	2.47035G	19.031M	2.452407G	2.471439G	500k	4

802.11ax HEW40_Nss1,(MCS0)_4TX EBW

2422MHz

04/10/2022

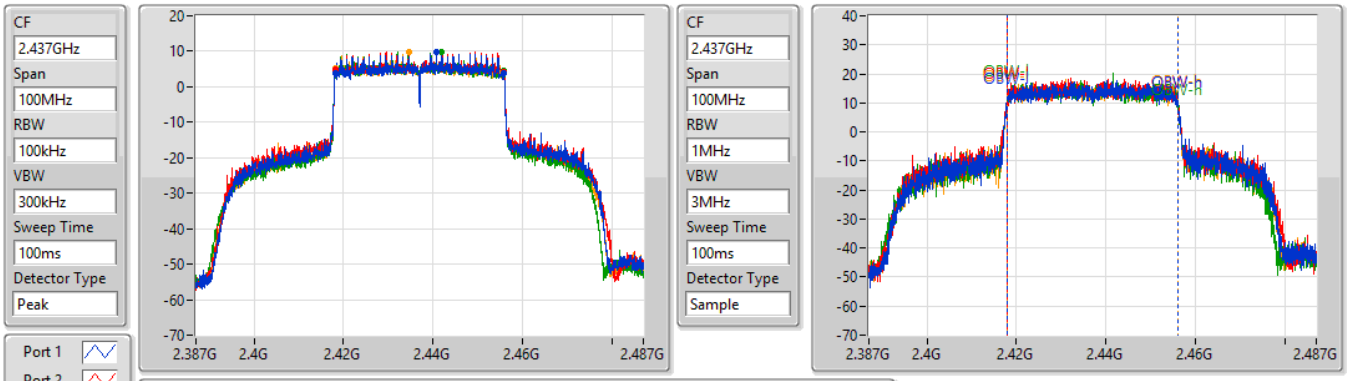


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.85M	2.4031G	2.44095G	37.965M	2.403066G	2.441032G	500k	1
37.65M	2.40315G	2.4408G	38.017M	2.403012G	2.44103G	500k	2
37.8M	2.4032G	2.441G	37.972M	2.403045G	2.441018G	500k	3
37.65M	2.40315G	2.4408G	37.922M	2.403029G	2.44095G	500k	4

802.11ax HEW40_Nss1,(MCS0)_4TX EBW

2437MHz

04/10/2022

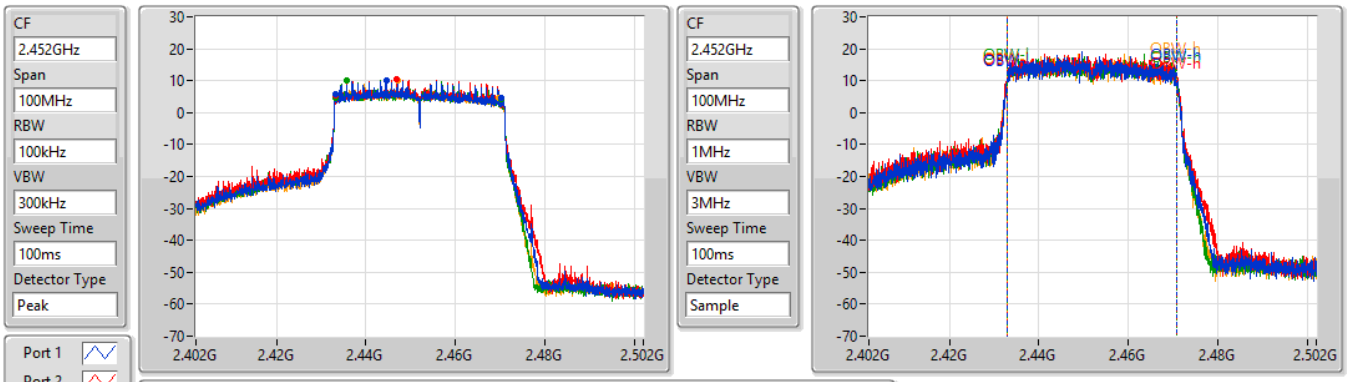


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.7M	2.4181G	2.4558G	38.11M	2.417912G	2.456022G	500k	1
37.65M	2.41815G	2.4558G	38.128M	2.417897G	2.456025G	500k	2
37.6M	2.41815G	2.45575G	38.112M	2.417897G	2.456009G	500k	3
37.5M	2.41815G	2.45565G	38.085M	2.417942G	2.456027G	500k	4

802.11ax HEW40_Nss1,(MCS0)_4TX EBW

2452MHz

04/10/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.1M	2.4332G	2.4703G	37.905M	2.432894G	2.470798G	500k	1
37.05M	2.43315G	2.4702G	37.97M	2.432871G	2.470842G	500k	2
37.1M	2.43315G	2.47025G	37.917M	2.43287G	2.470787G	500k	3
36.5M	2.43315G	2.46965G	37.857M	2.432908G	2.470765G	500k	4

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	29.92	0.98175
802.11g_Nss1,(6Mbps)_4TX	29.96	0.99083
VHT20_Nss1,(MCS0)_4TX	29.64	0.92045
VHT40_Nss1,(MCS0)_4TX	29.72	0.93756
802.11ax HEW20_Nss1,(MCS0)_4TX	29.95	0.98855
802.11ax HEW40_Nss1,(MCS0)_4TX	29.95	0.98855

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	4.78	23.68	24.48	23.36	23.62	29.83	30.00
2437MHz	Pass	4.78	23.99	24.60	23.25	23.65	29.92	30.00
2462MHz	Pass	4.78	23.59	24.30	23.69	23.52	29.81	30.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.78	23.60	24.23	23.66	23.79	29.85	30.00
2437MHz	Pass	4.78	24.10	24.16	23.67	23.79	29.96	30.00
2462MHz	Pass	4.78	23.60	23.98	23.71	23.70	29.77	30.00
VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.78	23.46	23.50	23.20	23.46	29.43	30.00
2437MHz	Pass	4.78	23.68	24.11	23.18	23.46	29.64	30.00
2462MHz	Pass	4.78	23.35	23.64	23.33	23.49	29.47	30.00
VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.78	23.42	23.73	23.41	23.70	29.59	30.00
2437MHz	Pass	4.78	23.18	23.63	23.13	23.40	29.36	30.00
2452MHz	Pass	4.78	23.49	24.03	23.53	23.72	29.72	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.78	23.66	24.00	23.67	23.93	29.84	30.00
2437MHz	Pass	4.78	24.01	24.33	23.44	23.88	29.95	30.00
2462MHz	Pass	4.78	23.49	23.89	23.87	23.80	29.79	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.78	23.56	24.21	23.96	23.95	29.95	30.00
2437MHz	Pass	4.78	23.58	24.11	23.72	23.78	29.82	30.00
2452MHz	Pass	4.78	23.48	24.15	23.72	23.62	29.77	30.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
VHT20-BF_Nss1,(MCS0)_4TX	29.64	0.92045
VHT40-BF_Nss1,(MCS0)_4TX	29.72	0.93756
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.95	0.98855
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	29.95	0.98855

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.98	23.46	23.5	23.2	23.46	29.43	30.00
2437MHz	Pass	4.98	23.68	24.11	23.18	23.46	29.64	30.00
2462MHz	Pass	4.98	23.35	23.64	23.33	23.49	29.47	30.00
VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.98	23.42	23.73	23.41	23.7	29.59	30.00
2437MHz	Pass	4.98	23.18	23.63	23.13	23.4	29.36	30.00
2452MHz	Pass	4.98	23.49	24.03	23.53	23.72	29.72	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.98	23.66	24	23.67	23.93	29.84	30.00
2437MHz	Pass	4.98	24.01	24.33	23.44	23.88	29.95	30.00
2462MHz	Pass	4.98	23.49	23.89	23.87	23.8	29.79	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.98	23.56	24.21	23.96	23.95	29.95	30.00
2437MHz	Pass	4.98	23.58	24.11	23.72	23.78	29.82	30.00
2452MHz	Pass	4.98	23.48	24.15	23.72	23.62	29.77	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_4TX	-0.89
802.11g_Nss1,(6Mbps)_4TX	3.61
VHT20_Nss1,(MCS0)_4TX	2.15
VHT40_Nss1,(MCS0)_4TX	-0.13
802.11ax HEW20_Nss1,(MCS0)_4TX	1.24
802.11ax HEW40_Nss1,(MCS0)_4TX	-0.74

RBW = 3kHz;

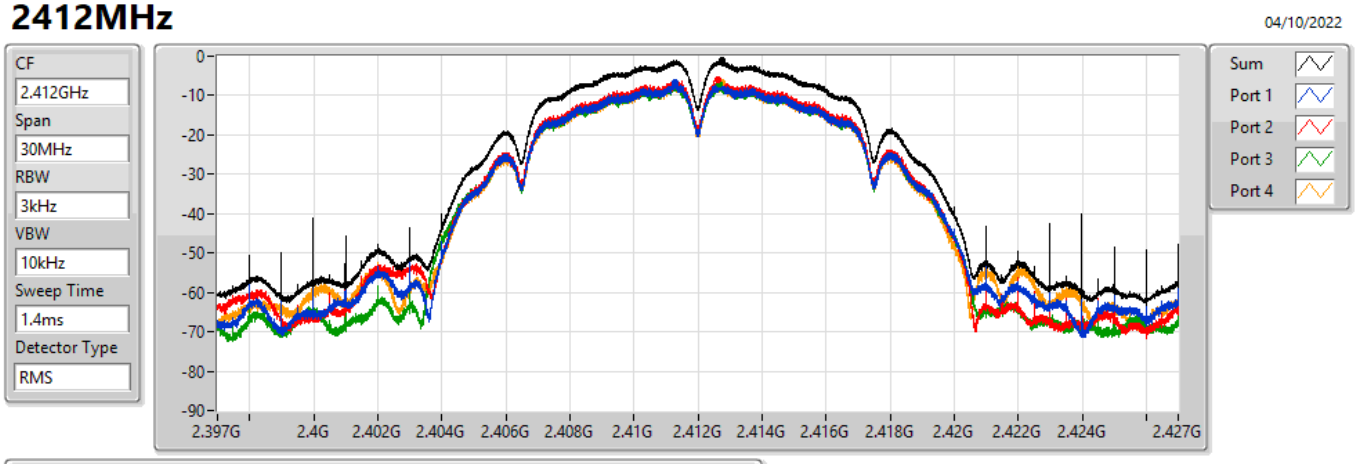
Result

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	4.98	-6.76	-5.93	-7.17	-6.62	-1.10	8.00
2437MHz	Pass	4.98	-6.31	-5.52	-6.87	-6.64	-0.89	8.00
2462MHz	Pass	4.98	-6.91	-6.05	-6.47	-7.11	-1.10	8.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.98	-2.12	-2.47	-2.44	-1.93	1.88	8.00
2437MHz	Pass	4.98	-1.67	-1.23	-2.60	-0.98	3.61	8.00
2462MHz	Pass	4.98	-2.19	-1.97	-2.25	-0.83	2.36	8.00
VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.98	-2.10	-3.02	-3.16	-2.28	1.42	8.00
2437MHz	Pass	4.98	-2.77	-2.00	-3.37	-2.58	2.15	8.00
2462MHz	Pass	4.98	-3.13	-1.33	-2.67	-1.65	2.09	8.00
VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.98	-5.31	-4.60	-4.91	-4.93	-1.30	8.00
2437MHz	Pass	4.98	-5.75	-4.81	-5.23	-6.04	-1.29	8.00
2452MHz	Pass	4.98	-4.45	-2.92	-5.14	-5.15	-0.13	8.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.98	-2.84	-2.82	-3.65	-3.83	1.24	8.00
2437MHz	Pass	4.98	-3.31	-2.67	-3.42	-3.34	1.00	8.00
2462MHz	Pass	4.98	-3.85	-3.48	-2.84	-3.17	0.75	8.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.98	-6.74	-5.48	-6.14	-5.61	-0.74	8.00
2437MHz	Pass	4.98	-6.48	-5.65	-6.54	-5.34	-1.51	8.00
2452MHz	Pass	4.98	-5.72	-4.12	-5.88	-6.84	-1.17	8.00

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

802.11b_Nss1,(1Mbps)_4TX PSD

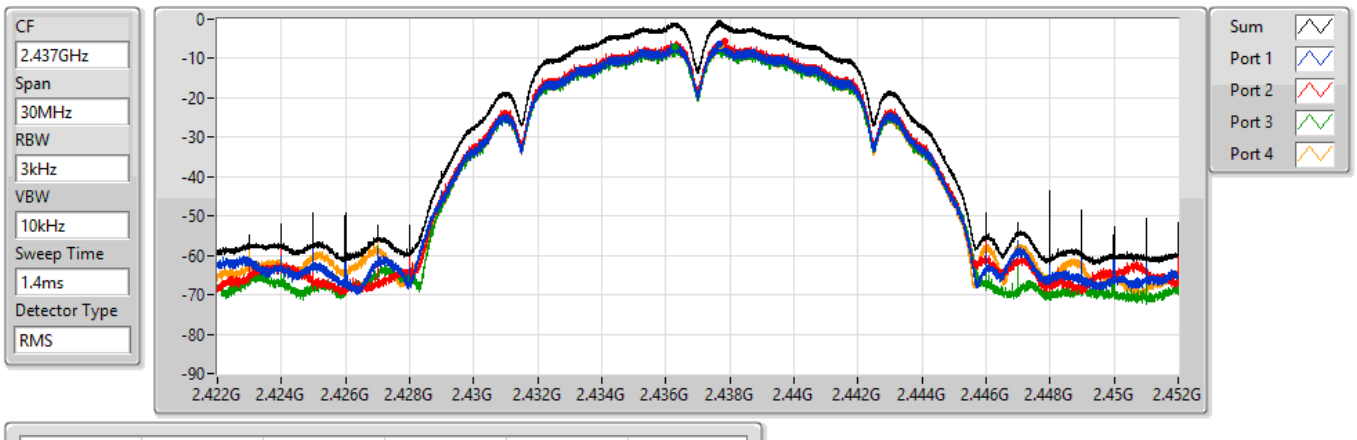
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.10	-1.10	-6.76	-5.93	-7.17	-6.62

802.11b_Nss1,(1Mbps)_4TX PSD

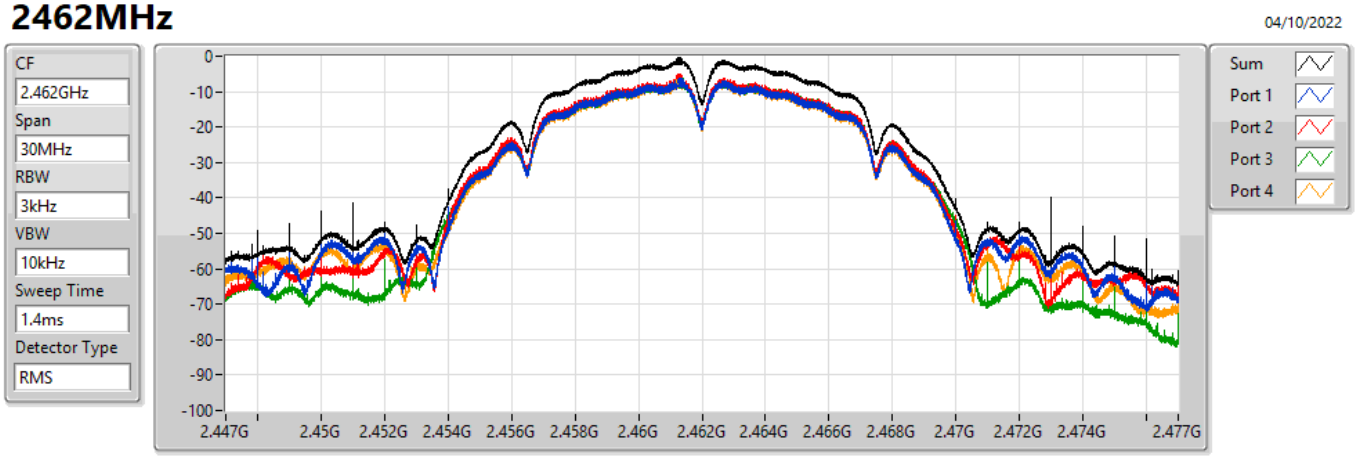
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.89	-0.89	-6.31	-5.52	-6.87	-6.64

802.11b_Nss1,(1Mbps)_4TX PSD

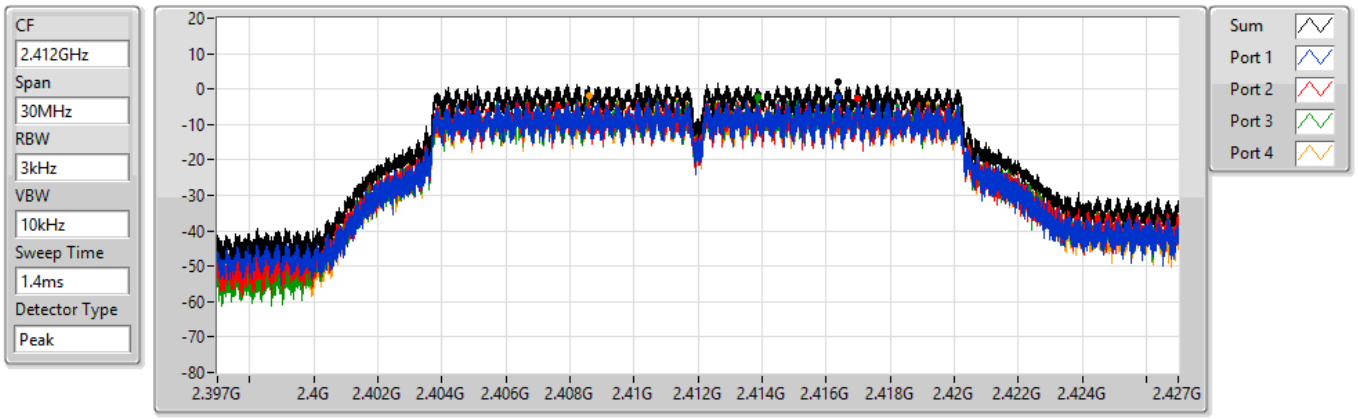
2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.10	-1.10	-6.91	-6.05	-6.47	-7.11

802.11g_Nss1,(6Mbps)_4TX PSD

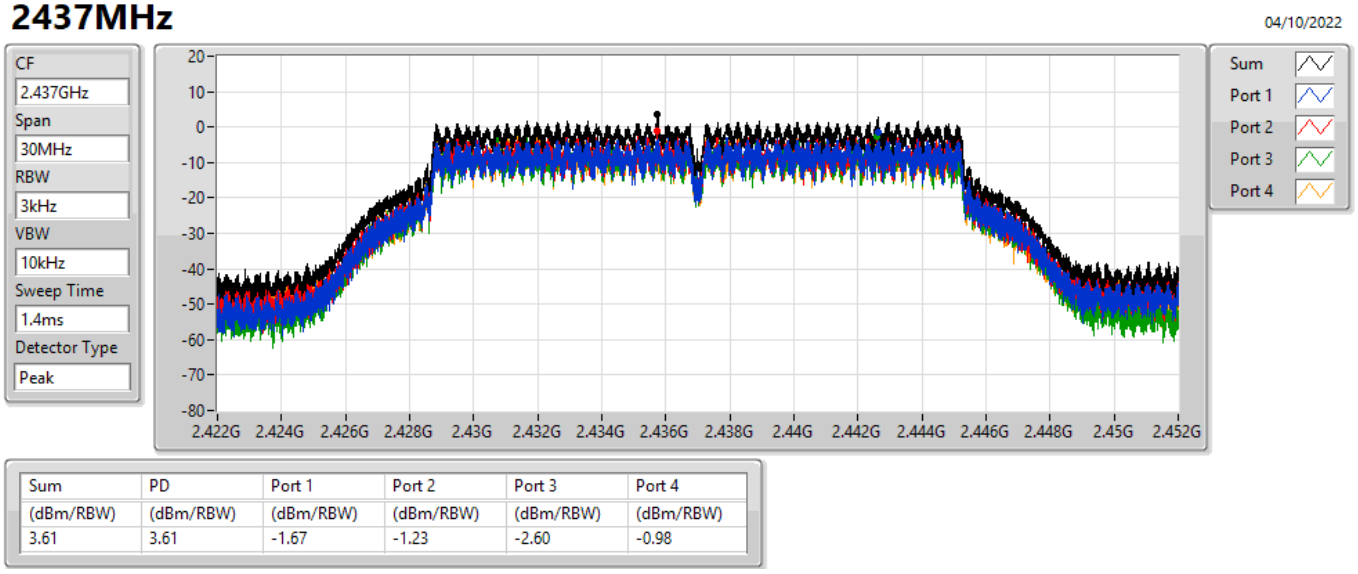
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.88	1.88	-2.12	-2.47	-2.44	-1.93

802.11g_Nss1,(6Mbps)_4TX PSD

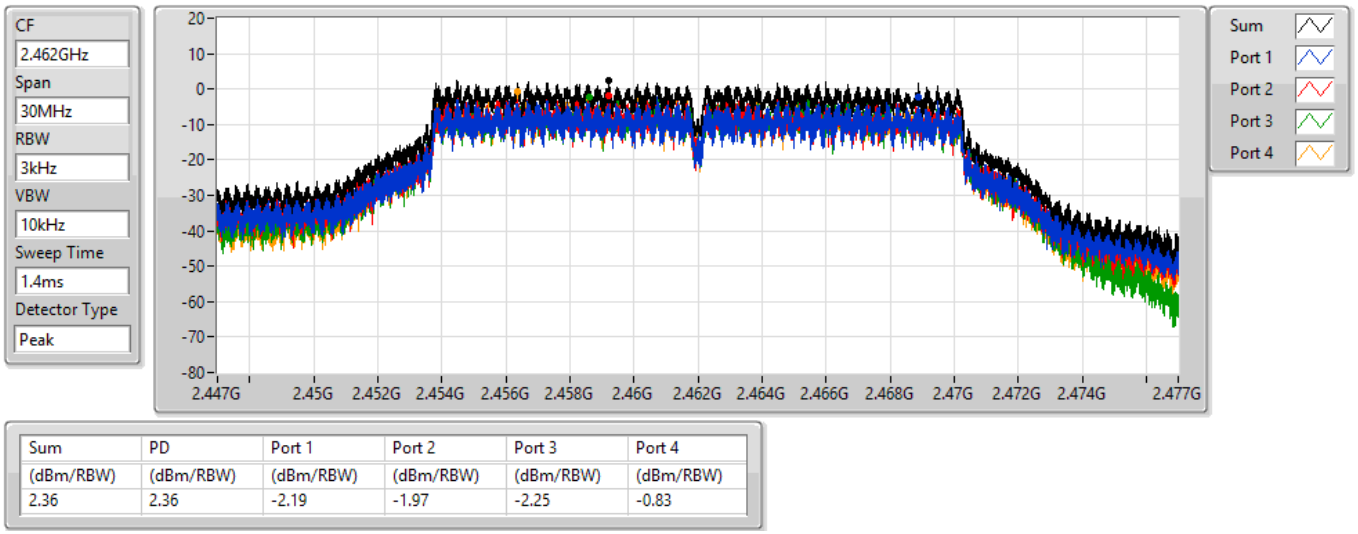
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.61	3.61	-1.67	-1.23	-2.60	-0.98

802.11g_Nss1,(6Mbps)_4TX PSD

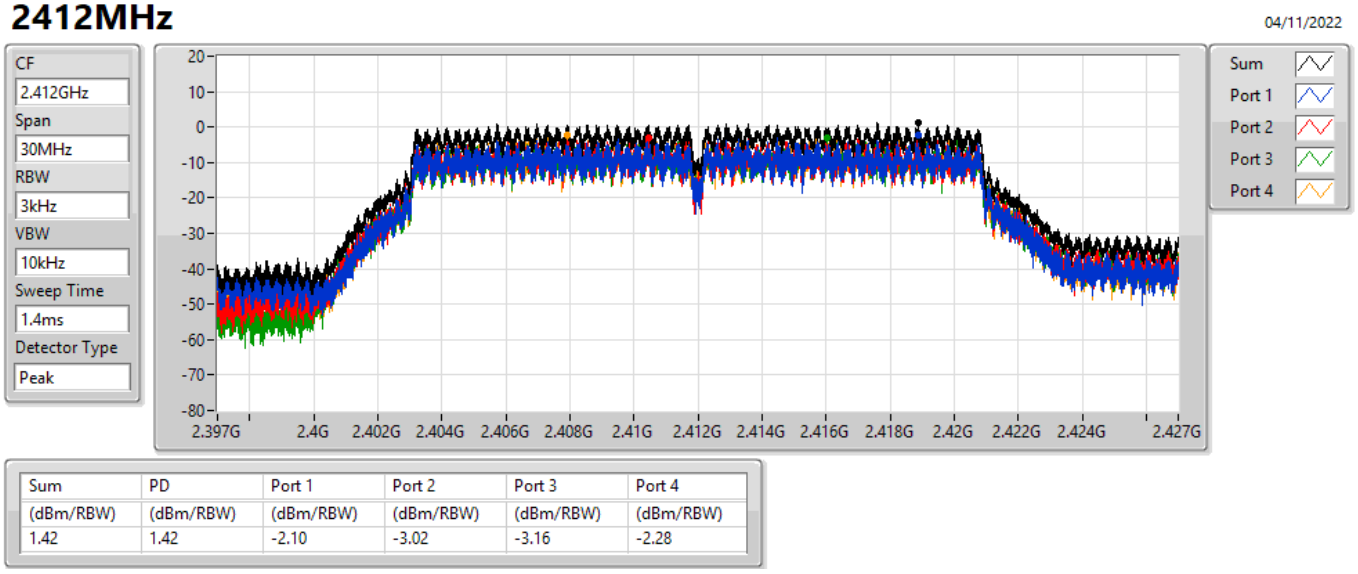
2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.36	2.36	-2.19	-1.97	-2.25	-0.83

VHT20_Nss1,(MCS0)_4TX PSD

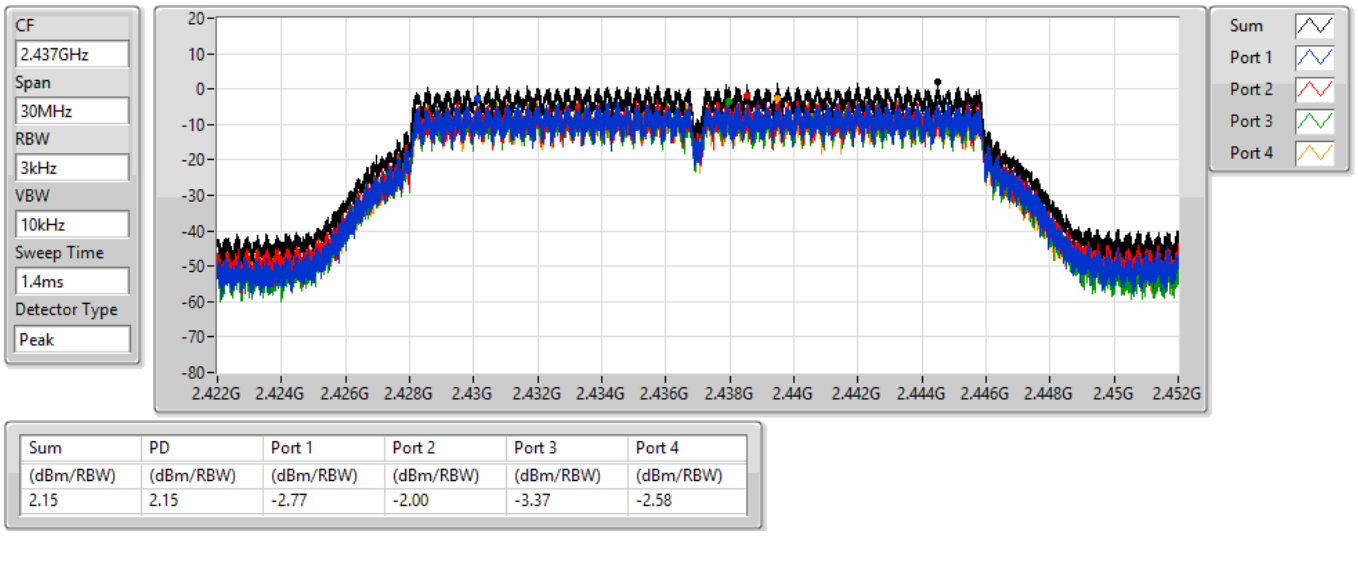
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.42	1.42	-2.10	-3.02	-3.16	-2.28

VHT20_Nss1,(MCS0)_4TX PSD

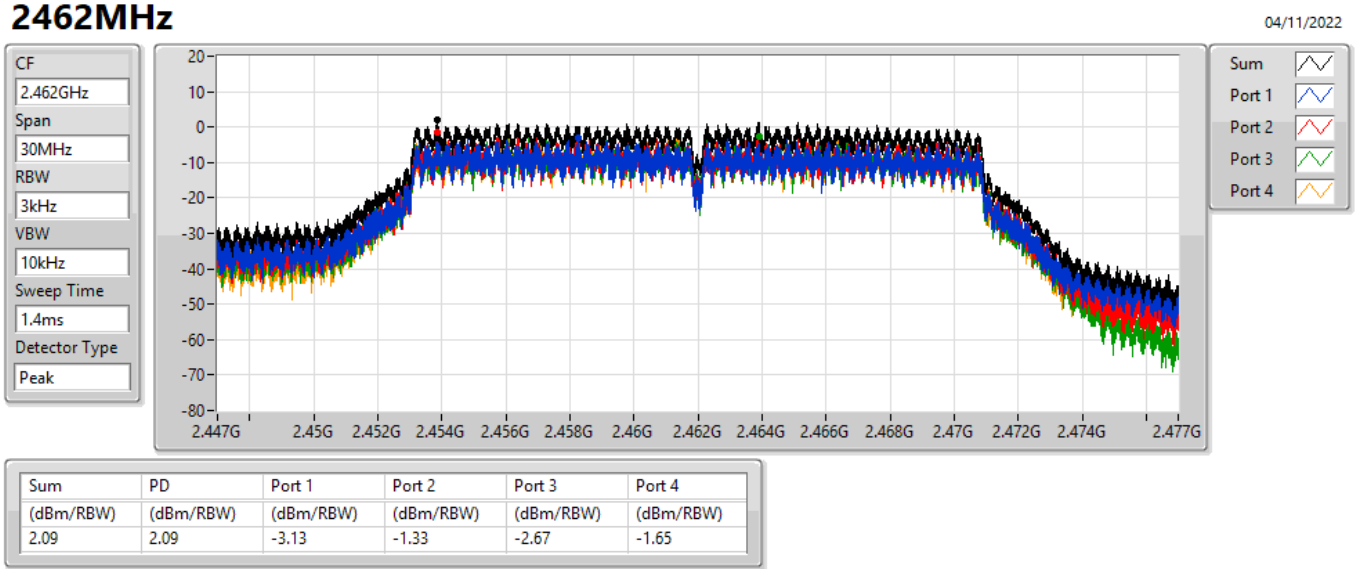
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.15	2.15	-2.77	-2.00	-3.37	-2.58

VHT20_Nss1,(MCS0)_4TX PSD

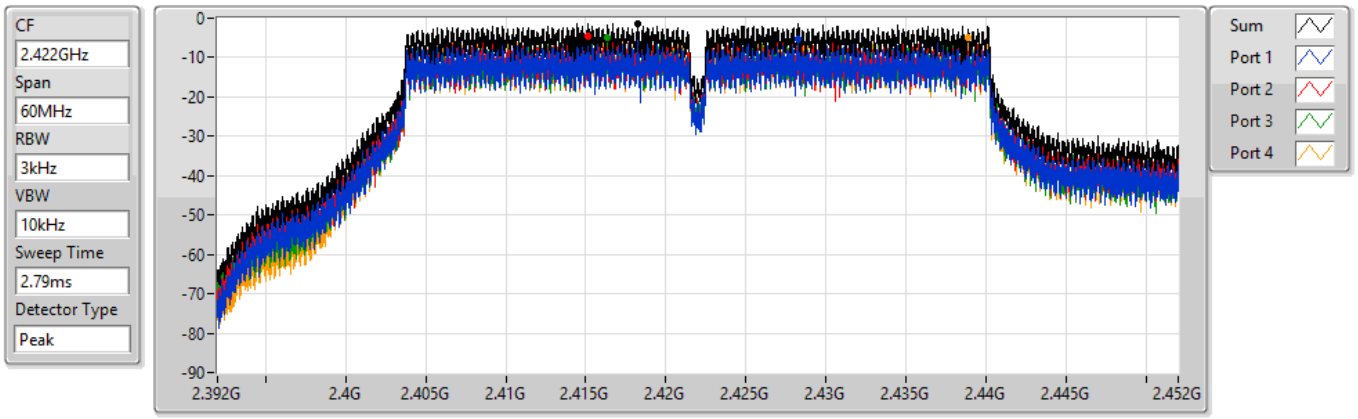
2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.09	2.09	-3.13	-1.33	-2.67	-1.65

VHT40_Nss1,(MCS0)_4TX PSD

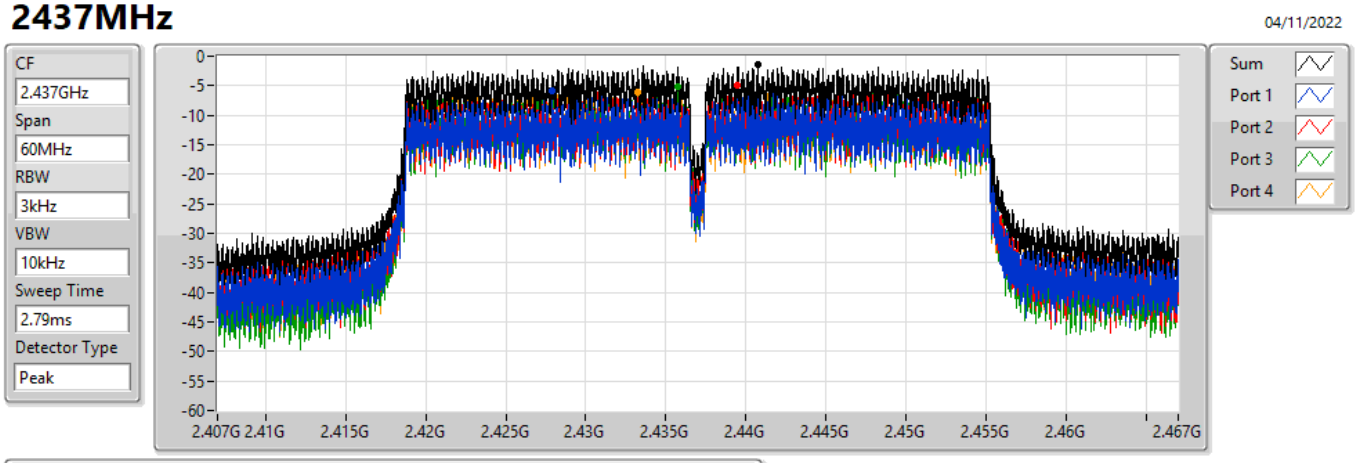
2422MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.30	-1.30	-5.31	-4.60	-4.91	-4.93

VHT40_Nss1,(MCS0)_4TX PSD

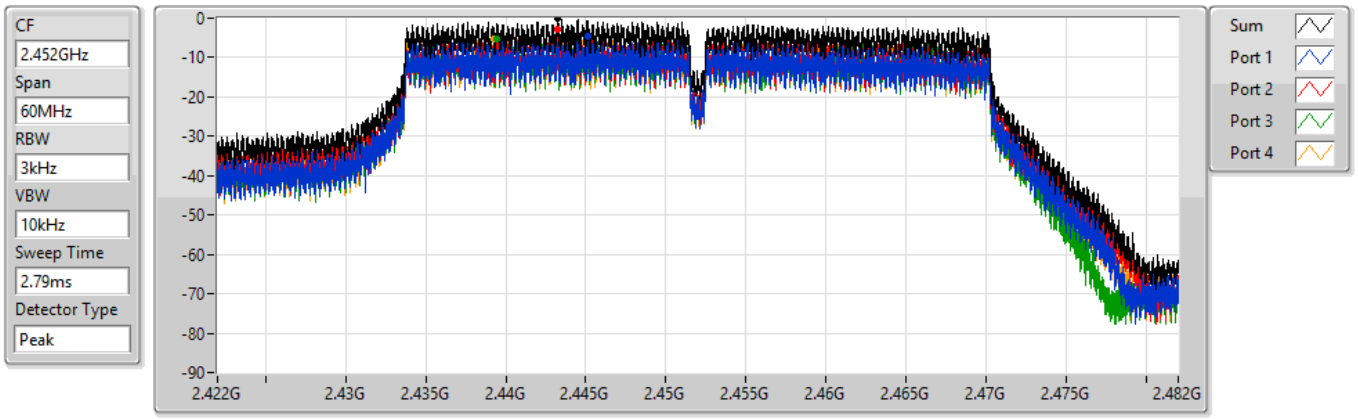
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.29	-1.29	-5.75	-4.81	-5.23	-6.04

VHT40_Nss1,(MCS0)_4TX PSD

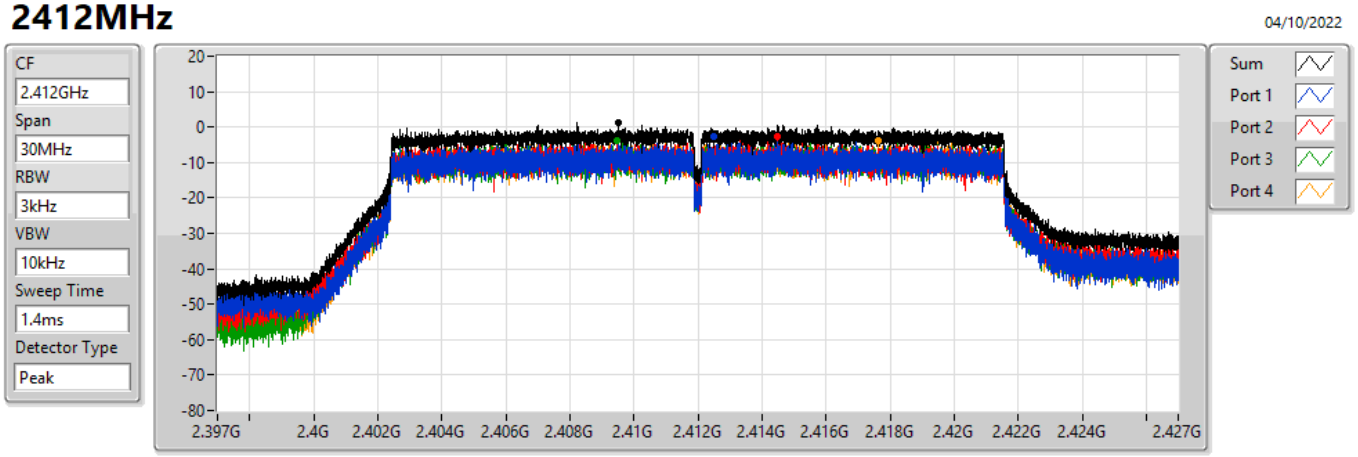
2452MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.13	-0.13	-4.45	-2.92	-5.14	-5.15

802.11ax HEW20_Nss1,(MCS0)_4TX PSD

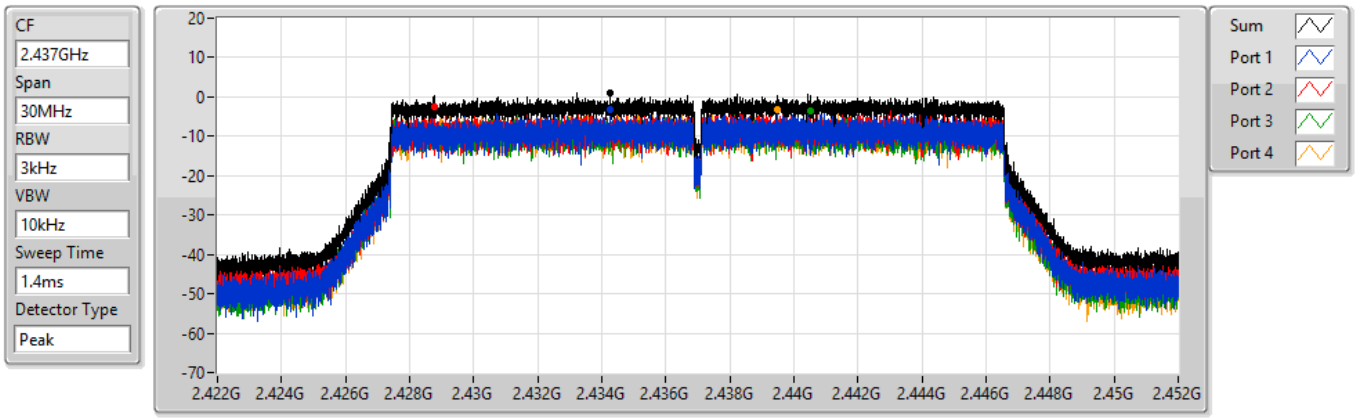
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.24	1.24	-2.84	-2.82	-3.65	-3.83

802.11ax HEW20_Nss1,(MCS0)_4TX PSD

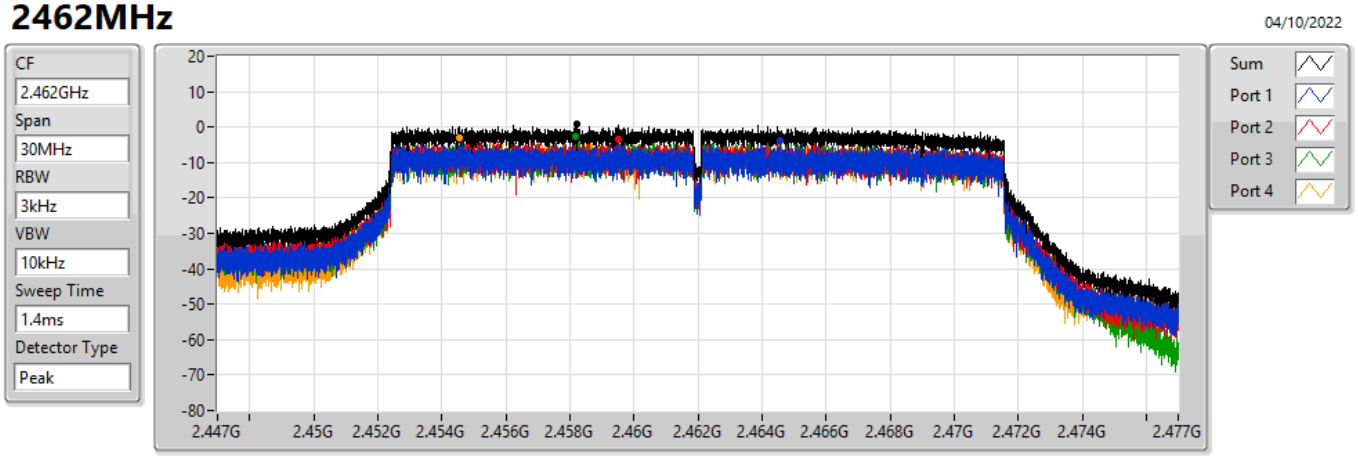
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.00	1.00	-3.31	-2.67	-3.42	-3.34

802.11ax HEW20_Nss1,(MCS0)_4TX PSD

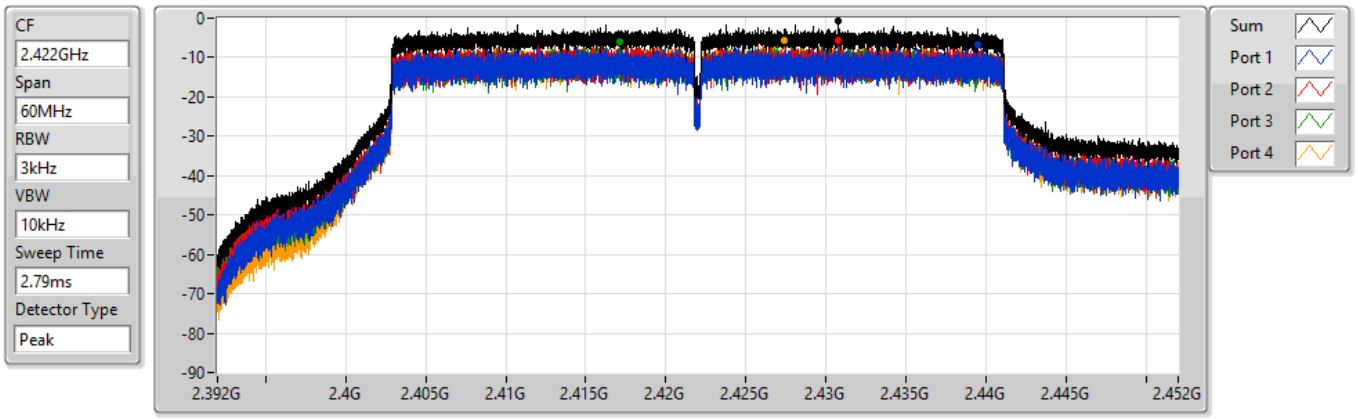
2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.75	0.75	-3.85	-3.48	-2.84	-3.17

802.11ax HEW40_Nss1,(MCS0)_4TX PSD

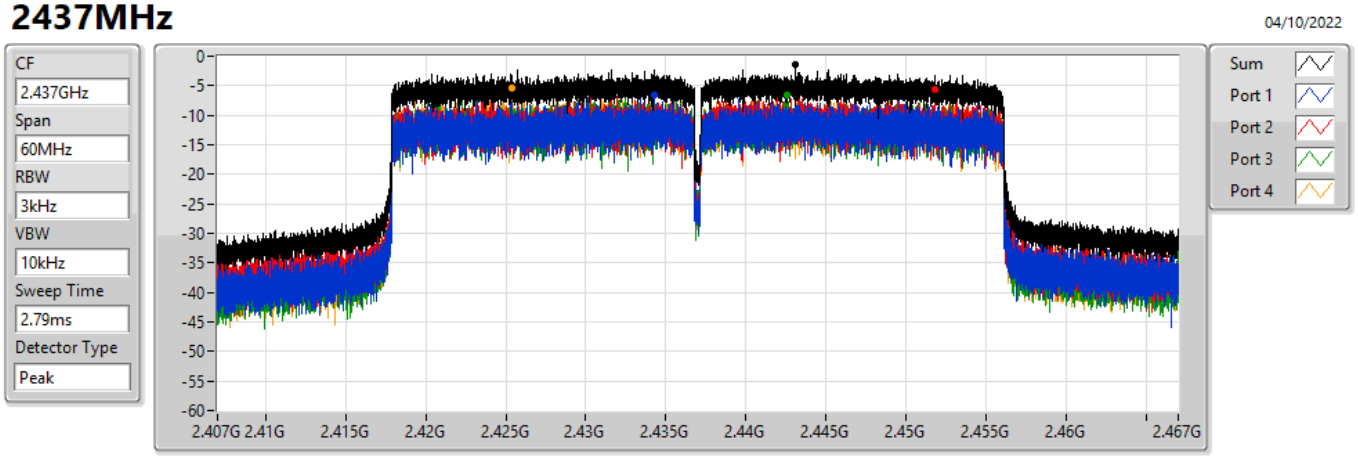
2422MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.74	-0.74	-6.74	-5.48	-6.14	-5.61

802.11ax HEW40_Nss1,(MCS0)_4TX PSD

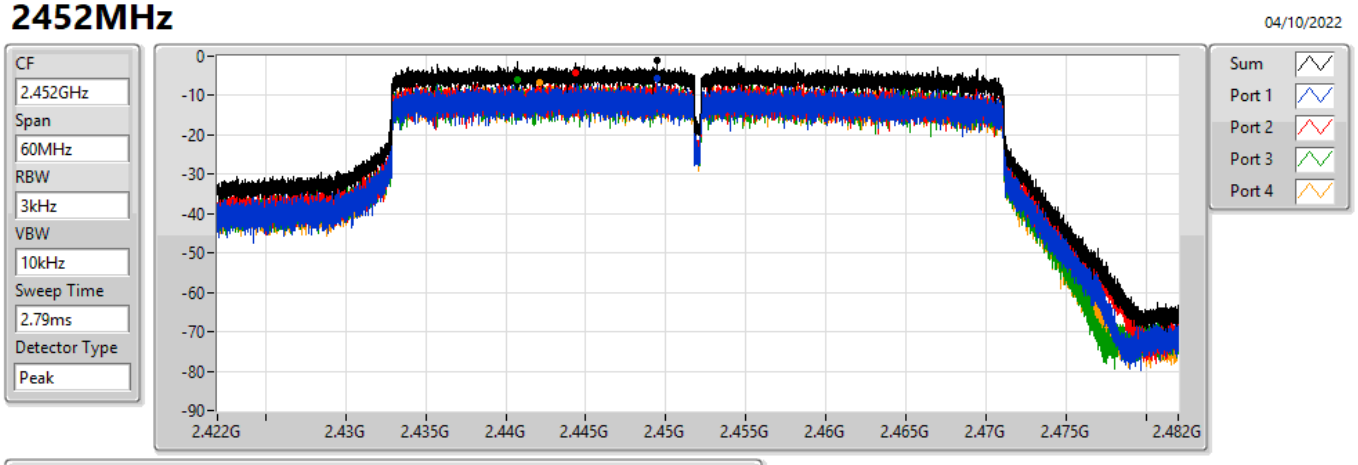
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.51	-1.51	-6.48	-5.65	-6.54	-5.34

802.11ax HEW40_Nss1,(MCS0)_4TX PSD

2452MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.17	-1.17	-5.72	-4.12	-5.88	-6.84

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	2.43749G	17.13	-12.87	2.19486G	-54.39	2.39802G	-34.57	2.4G	-37.13	2.51614G	-50.98	21.52176G	-48.06	2
802.11g_Nss1,(6Mbps)_4TX	Pass	2.44451G	13.87	-16.13	1.89429G	-53.90	2.3989G	-26.80	2.4G	-29.10	2.52346G	-50.65	21.64819G	-47.16	2
VHT20_Nss1,(MCS0)_4TX	Pass	2.4395G	13.71	-16.29	2.0836G	-53.83	2.39758G	-26.87	2.4G	-31.50	2.49692G	-51.56	21.88981G	-48.87	1
VHT40_Nss1,(MCS0)_4TX	Pass	2.44325G	10.89	-19.11	1.84397G	-53.29	2.39948G	-19.65	2.4G	-26.95	2.4835G	-50.62	21.81402G	-48.97	2
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	2.44196G	13.80	-16.20	46.89M	-53.76	2.39856G	-26.95	2.4G	-30.58	2.51628G	-50.92	21.73248G	-48.50	1
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	2.44075G	10.22	-19.78	2.01915G	-54.22	2.3998G	-20.73	2.4G	-20.41	2.48378G	-46.72	21.5588G	-47.25	2

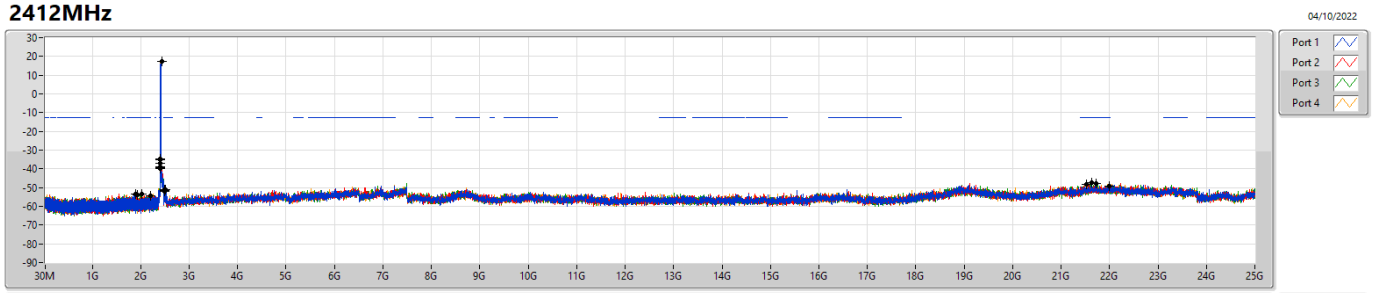
Result

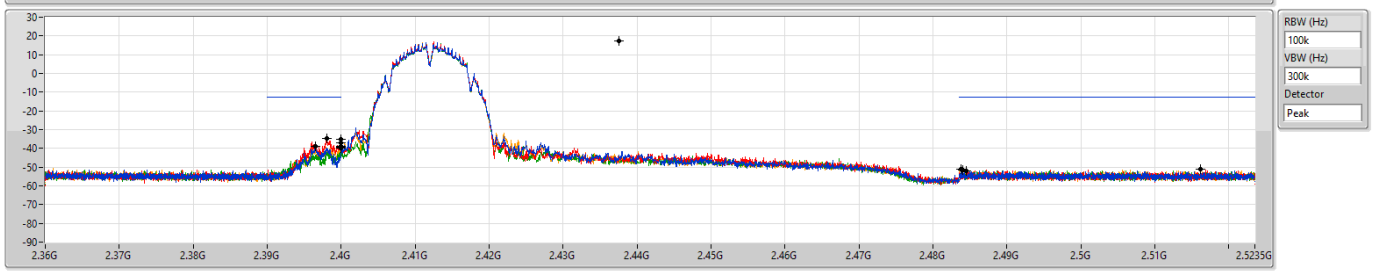
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43749G	17.13	-12.87	1.93332G	-53.72	2.39648G	-39.00	2.4G	-39.28	2.48446G	-51.96	21.98815G	-49.09	1
2412MHz	Pass	2.43749G	17.13	-12.87	2.19486G	-54.39	2.39802G	-34.57	2.4G	-37.13	2.51614G	-50.98	21.52176G	-48.06	2
2412MHz	Pass	2.43749G	17.13	-12.87	1.90012G	-53.60	2.4G	-38.87	2.4G	-39.63	2.48402G	-51.62	21.72405G	-48.01	3
2412MHz	Pass	2.43749G	17.13	-12.87	2.0239G	-53.60	2.4G	-34.93	2.4G	-37.20	2.48378G	-50.89	21.63695G	-47.41	4
2437MHz	Pass	2.43749G	17.13	-12.87	2.13516G	-53.44	2.39998G	-44.87	2.4G	-48.57	2.52052G	-51.21	13.04531G	-48.71	1
2437MHz	Pass	2.43749G	17.13	-12.87	1.95429G	-53.93	2.39786G	-46.03	2.4G	-47.38	2.48618G	-50.99	21.60886G	-48.01	2
2437MHz	Pass	2.43749G	17.13	-12.87	1.71809G	-54.19	2.3981G	-46.32	2.4G	-49.43	2.50274G	-50.58	21.66786G	-47.99	3
2437MHz	Pass	2.43749G	17.13	-12.87	2.19894G	-54.52	2.3997G	-45.90	2.4G	-47.84	2.51914G	-51.46	21.52457G	-47.95	4
2462MHz	Pass	2.43749G	17.13	-12.87	1.83371G	-53.11	2.3982G	-48.41	2.4G	-49.43	2.48604G	-50.89	21.592G	-47.92	1
2462MHz	Pass	2.43749G	17.13	-12.87	2.15875G	-53.12	2.3987G	-47.75	2.4G	-49.81	2.51792G	-51.66	21.70438G	-48.01	2
2462MHz	Pass	2.43749G	17.13	-12.87	1.95371G	-53.78	2.39796G	-47.36	2.4G	-49.60	2.48692G	-50.98	21.57514G	-47.58	3
2462MHz	Pass	2.43749G	17.13	-12.87	2.10778G	-54.09	2.39898G	-46.21	2.4G	-50.61	2.48502G	-50.56	23.17097G	-48.16	4
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44451G	13.87	-16.13	2.08826G	-53.28	2.39864G	-26.85	2.4G	-31.34	2.50826G	-51.03	21.6201G	-47.28	1
2412MHz	Pass	2.44451G	13.87	-16.13	1.89429G	-53.90	2.3989G	-26.80	2.4G	-29.10	2.52346G	-50.65	21.64819G	-47.16	2
2412MHz	Pass	2.44451G	13.87	-16.13	51.84M	-53.82	2.39976G	-28.95	2.4G	-30.43	2.49792G	-51.28	21.80553G	-48.23	3
2412MHz	Pass	2.44451G	13.87	-16.13	736.28M	-51.76	2.39954G	-29.82	2.4G	-32.30	2.48756G	-51.34	21.60605G	-47.78	4
2437MHz	Pass	2.44451G	13.87	-16.13	1.86196G	-53.60	2.39876G	-41.67	2.4G	-42.13	2.51858G	-50.87	21.65381G	-48.39	1
2437MHz	Pass	2.44451G	13.87	-16.13	2.13603G	-53.59	2.4G	-41.84	2.4G	-42.27	2.50114G	-51.41	21.53862G	-48.69	2
2437MHz	Pass	2.44451G	13.87	-16.13	50.68M	-52.91	2.39878G	-44.40	2.4G	-45.39	2.4943G	-51.14	21.95443G	-48.28	3
2437MHz	Pass	2.44451G	13.87	-16.13	1.75682G	-53.95	2.39924G	-42.43	2.4G	-43.96	2.48396G	-51.04	21.83081G	-48.17	4
2462MHz	Pass	2.44451G	13.87	-16.13	825.7M	-54.05	2.39986G	-37.14	2.4G	-42.79	2.48446G	-43.90	21.58357G	-48.26	1
2462MHz	Pass	2.44451G	13.87	-16.13	2.13108G	-53.62	2.39952G	-45.14	2.4G	-45.90	2.48478G	-46.27	21.65662G	-47.63	2
2462MHz	Pass	2.44451G	13.87	-16.13	35.53M	-53.54	2.39892G	-46.12	2.4G	-46.90	2.48356G	-49.65	21.69314G	-48.30	3
2462MHz	Pass	2.44451G	13.87	-16.13	100.48M	-54.05	2.39892G	-44.69	2.4G	-46.78	2.4845G	-46.11	21.9741G	-48.19	4
VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4395G	13.71	-16.29	2.0836G	-53.83	2.39758G	-26.87	2.4G	-31.50	2.49692G	-51.56	21.88981G	-48.87	1
2412MHz	Pass	2.4395G	13.71	-16.29	2.15234G	-53.99	2.4G	-29.53	2.4G	-31.20	2.48388G	-51.62	21.62572G	-48.82	2
2412MHz	Pass	2.4395G	13.71	-16.29	2.13253G	-53.79	2.39978G	-32.13	2.4G	-33.17	2.4937G	-51.30	21.50209G	-48.43	3
2412MHz	Pass	2.4395G	13.71	-16.29	2.17389G	-54.36	2.39886G	-26.92	2.4G	-32.78	2.5141G	-52.10	23.31988G	-48.91	4
2437MHz	Pass	2.4395G	13.71	-16.29	2.1069G	-54.34	2.39888G	-41.21	2.4G	-44.47	2.51974G	-51.70	21.71G	-47.69	1
2437MHz	Pass	2.4395G	13.71	-16.29	2.1072G	-54.20	2.39978G	-41.70	2.4G	-42.77	2.4837G	-51.34	21.65381G	-47.78	2
2437MHz	Pass	2.4395G	13.71	-16.29	2.30758G	-54.29	2.39976G	-43.14	2.4G	-43.79	2.49212G	-50.72	21.82238G	-49.24	3
2437MHz	Pass	2.4395G	13.71	-16.29	1.91934G	-53.84	2.39882G	-42.37	2.4G	-44.54	2.49882G	-50.78	21.9151G	-49.01	4
2462MHz	Pass	2.4395G	13.71	-16.29	1.84798G	-53.71	2.39886G	-44.78	2.4G	-47.13	2.4845G	-47.49	21.98815G	-48.51	1
2462MHz	Pass	2.4395G	13.71	-16.29	1.77022G	-53.97	2.39814G	-46.65	2.4G	-48.39	2.48428G	-49.56	21.59762G	-48.67	2
2462MHz	Pass	2.4395G	13.71	-16.29	2.1602G	-53.11	2.39966G	-46.33	2.4G	-49.62	2.48504G	-49.96	21.66224G	-49.02	3
2462MHz	Pass	2.4395G	13.71	-16.29	1.9106G	-53.71	2.3991G	-45.23	2.4G	-47.87	2.48458G	-49.75	21.92353G	-48.41	4
VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44325G	10.89	-19.11	2.18861G	-53.47	2.39952G	-24.97	2.4G	-27.27	2.52754G	-53.77	21.95985G	-48.40	1
2422MHz	Pass	2.44325G	10.89	-19.11	2.19691G	-53.43	2.39948G	-23.62	2.4G	-26.22	2.48506G	-54.01	21.71866G	-48.81	2
2422MHz	Pass	2.44325G	10.89	-19.11	2.30741G	-54.18	2.39984G	-25.39	2.4G	-26.50	2.5403G	-53.75	23.35653G	-48.80	3
2422MHz	Pass	2.44325G	10.89	-19.11	641.14M	-53.84	2.3998G	-26.18	2.4G	-27.87	2.48978G	-54.25	22.00192G	-48.49	4
2437MHz	Pass	2.44325G	10.89	-19.11	2.12363G	-53.52	2.39948G	-20.02	2.4G	-25.88	2.4845G	-50.09	21.53076G	-48.55	1
2437MHz	Pass	2.44325G	10.89	-19.11	1.84397G	-53.29	2.39948G	-19.65	2.4G	-26.95	2.4835G	-50.62	21.81402G	-48.97	2
2437MHz	Pass	2.44325G	10.89	-19.11	847.82M	-53.86	2.39952G	-22.35	2.4G	-29.55	2.48358G	-50.32	21.89535G	-48.38	3
2437MHz	Pass	2.44325G	10.89	-19.11	2.16199G	-54.47	2.39952G	-22.71	2.4G	-27.40	2.48478G	-49.35	21.69903G	-48.46	4
2452MHz	Pass	2.44325G	10.89	-19.11	2.17659G	-53.67	2.39948G	-24.68	2.4G	-30.36	2.4841G	-52.28	21.94022G	-47.71	1
2452MHz	Pass	2.44325G	10.89	-19.11	1.78958G	-53.95	2.39948G	-23.75	2.4G	-31.96	2.4845G	-43.59	21.88413G	-48.39	2
2452MHz	Pass	2.44325G	10.89	-19.11	194.59M	-54.41	2.39952G	-25.01	2.4G	-32.26	2.48942G	-48.87	21.65135G	-48.57	3
2452MHz	Pass	2.44325G	10.89	-19.11	2.19119G	-53.49	2.39952G	-23.64	2.4G	-31.46	2.4845G	-47.40	21.52234G	-48.50	4
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44196G	13.80	-16.20	46.89M	-53.76	2.39856G	-26.95	2.4G	-30.58	2.51628G	-50.92	21.73248G	-48.50	1
2412MHz	Pass	2.44196G	13.80	-16.20	45.44M	-54.28	2.39824G	-29.36	2.4G	-30.69	2.48502G	-50.85	21.74372G	-48.51	2
2412MHz	Pass	2.44196G	13.80	-16.20	47.18M	-54.28	2.39702G	-30.48	2.4G	-29.77	2.4905G	-51.35	21.70438G	-47.88	3
2412MHz	Pass	2.44196G	13.80	-16.20	1.90332G	-53.87	2.39854G	-28.45	2.4G	-32.81	2.4966G	-51.32	21.66224G	-48.17	4
2437MHz	Pass	2.44196G	13.80	-16.20	2.11739G	-53.70	2.39934G	-39.15	2.4G	-41.72	2.49208G	-51.32	21.72686G	-48.54	1
2437MHz	Pass	2.44196G	13.80	-16.20	2.0338G	-53.78	2.39872G	-38.44	2.4G	-41.39	2.48656G	-50.88	21.82519G	-47.03	2
2437MHz	Pass	2.44196G	13.80	-16.20	2.1471G	-54.43	2.39958G	-41.03	2.4G	-41.49	2.50926G	-51.29	21.533G	-47.68	3
2437MHz	Pass	2.44196G	13.80	-16.20	61.46M	-53.91	2.39908G	-40.85	2.4G	-42.76	2.4835G	-50.67	21.73248G	-47.96	4

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
2462MHz	Pass	2.44196G	13.80	-16.20	2.12292G	-53.96	2.39962G	-42.90	2.4G	-45.21	2.48426G	-47.13	21.70438G	-47.20	1
2462MHz	Pass	2.44196G	13.80	-16.20	635.22M	-51.35	2.39966G	-45.35	2.4G	-48.11	2.48456G	-47.41	21.87296G	-47.51	2
2462MHz	Pass	2.44196G	13.80	-16.20	1.74517G	-53.38	2.39894G	-46.55	2.4G	-48.47	2.48376G	-48.70	21.69314G	-48.28	3
2462MHz	Pass	2.44196G	13.80	-16.20	45.15M	-53.38	2.39978G	-40.94	2.4G	-45.51	2.4835G	-47.75	21.67067G	-48.37	4
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44196G	13.80	-16.20	55.48M	-54.19	2.39948G	-24.52	2.4G	-24.64	2.52018G	-54.38	21.69903G	-48.09	1
2422MHz	Pass	2.44196G	13.80	-16.20	1.80933G	-53.13	2.39952G	-23.24	2.4G	-23.26	2.56314G	-53.68	21.5588G	-48.59	2
2422MHz	Pass	2.44196G	13.80	-16.20	44.89M	-53.46	2.3996G	-24.85	2.4G	-24.55	2.52542G	-53.65	21.53917G	-48.21	3
2422MHz	Pass	2.44196G	13.80	-16.20	2.12678G	-54.03	2.4G	-25.11	2.4G	-24.19	2.55886G	-54.08	21.63172G	-47.10	4
2437MHz	Pass	2.44075G	10.22	-19.78	64.06M	-53.34	2.39952G	-20.69	2.4G	-22.33	2.48382G	-46.58	6.89374G	-48.74	1
2437MHz	Pass	2.44075G	10.22	-19.78	2.01915G	-54.22	2.3998G	-20.73	2.4G	-20.41	2.48378G	-46.72	21.5588G	-47.25	2
2437MHz	Pass	2.44075G	10.22	-19.78	1.76067G	-53.72	2.39972G	-22.03	2.4G	-22.87	2.4841G	-48.72	21.50271G	-48.69	3
2437MHz	Pass	2.44075G	10.22	-19.78	2.09444G	-53.52	2.39644G	-21.66	2.4G	-22.34	2.48366G	-46.19	21.62611G	-47.96	4
2452MHz	Pass	2.44075G	10.22	-19.78	2.17659G	-53.78	2.39948G	-25.55	2.4G	-31.64	2.48454G	-52.04	21.93181G	-48.75	1
2452MHz	Pass	2.44075G	10.22	-19.78	1.65476G	-54.63	2.39952G	-25.31	2.4G	-31.57	2.48942G	-48.37	21.67379G	-46.92	2
2452MHz	Pass	2.44075G	10.22	-19.78	2.12592G	-53.74	2.39952G	-26.33	2.4G	-31.13	2.48946G	-50.58	21.52795G	-48.46	3
2452MHz	Pass	2.44075G	10.22	-19.78	2.12506G	-54.18	2.39952G	-26.71	2.4G	-31.53	2.48946G	-50.99	21.58685G	-47.82	4

802.11b_Nss1,(1Mbps)_4TX **CSENdB**

2412MHz

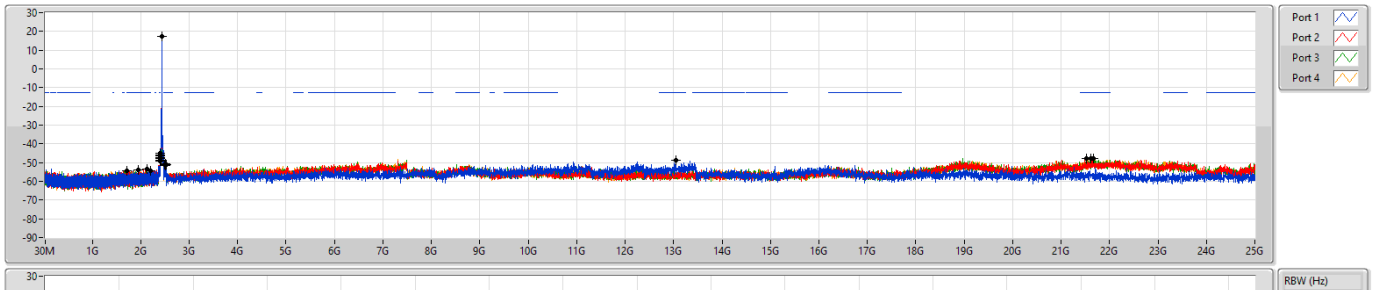


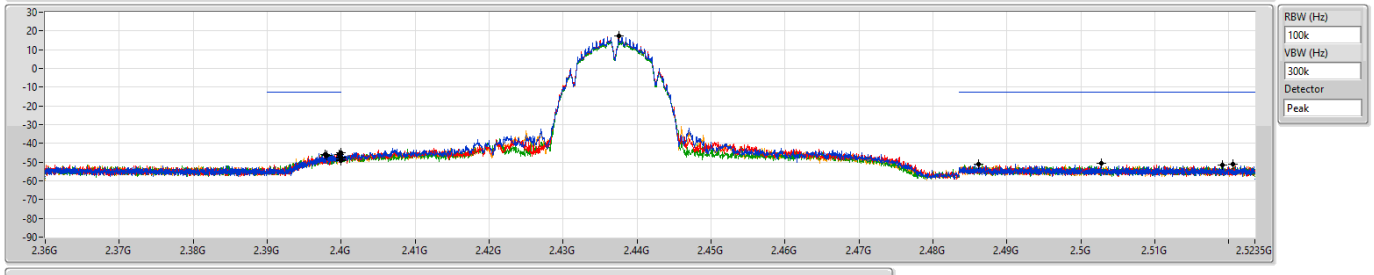


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43749G	17.13	-12.87	1.93332G	-53.72	2.39648G	-39.00	2.4G	-39.28	2.48446G	-51.96	21.98815G	-49.09	1
2.43749G	17.13	-12.87	2.19486G	-54.39	2.39802G	-34.57	2.4G	-37.13	2.51614G	-50.98	21.52176G	-48.06	2
2.43749G	17.13	-12.87	1.90012G	-53.60	2.4G	-38.87	2.4G	-39.63	2.48402G	-51.62	21.72405G	-48.01	3
2.43749G	17.13	-12.87	2.0239G	-53.60	2.4G	-34.93	2.4G	-37.20	2.48378G	-50.89	21.63695G	-47.41	4

802.11b_Nss1,(1Mbps)_4TX **CSENdB**

2437MHz

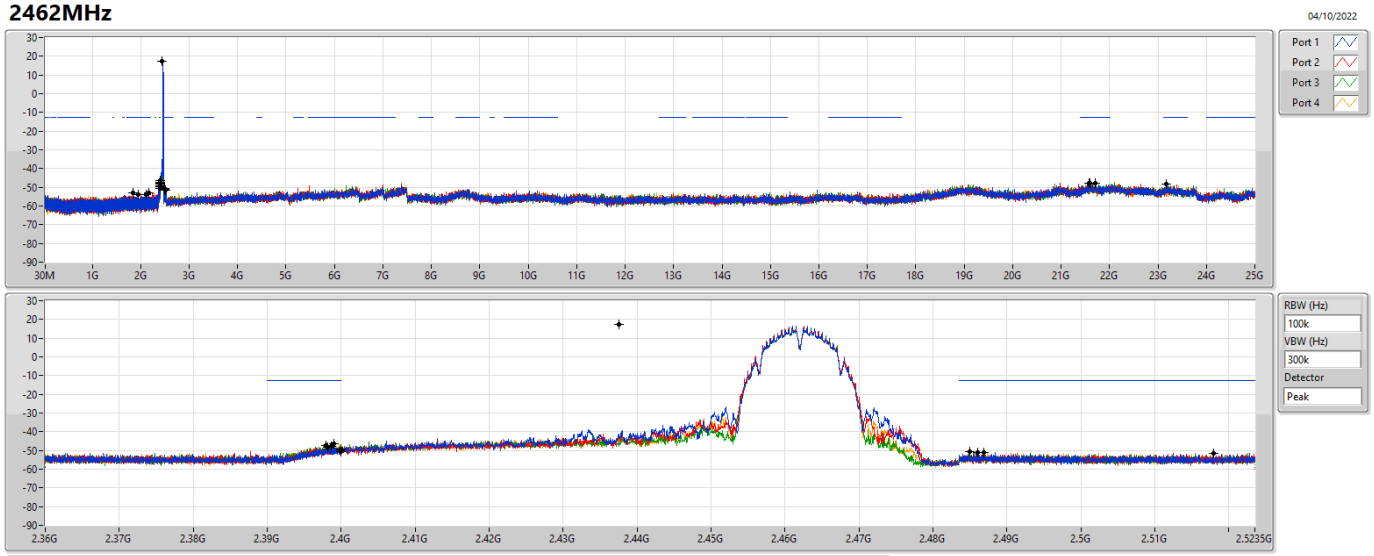




Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43749G	17.13	-12.87	2.13516G	-53.44	2.39998G	-44.87	2.4G	-48.57	2.52052G	-51.21	13.04531G	-48.71	1
2.43749G	17.13	-12.87	1.95429G	-53.93	2.39786G	-46.03	2.4G	-47.38	2.48618G	-50.99	21.60886G	-48.01	2
2.43749G	17.13	-12.87	1.71809G	-54.19	2.3981G	-46.32	2.4G	-49.43	2.50274G	-50.58	21.66786G	-47.99	3
2.43749G	17.13	-12.87	2.19894G	-54.52	2.3997G	-45.90	2.4G	-47.84	2.51914G	-51.46	21.52457G	-47.95	4

802.11b_Nss1,(1Mbps)_4TX **CSENdB**

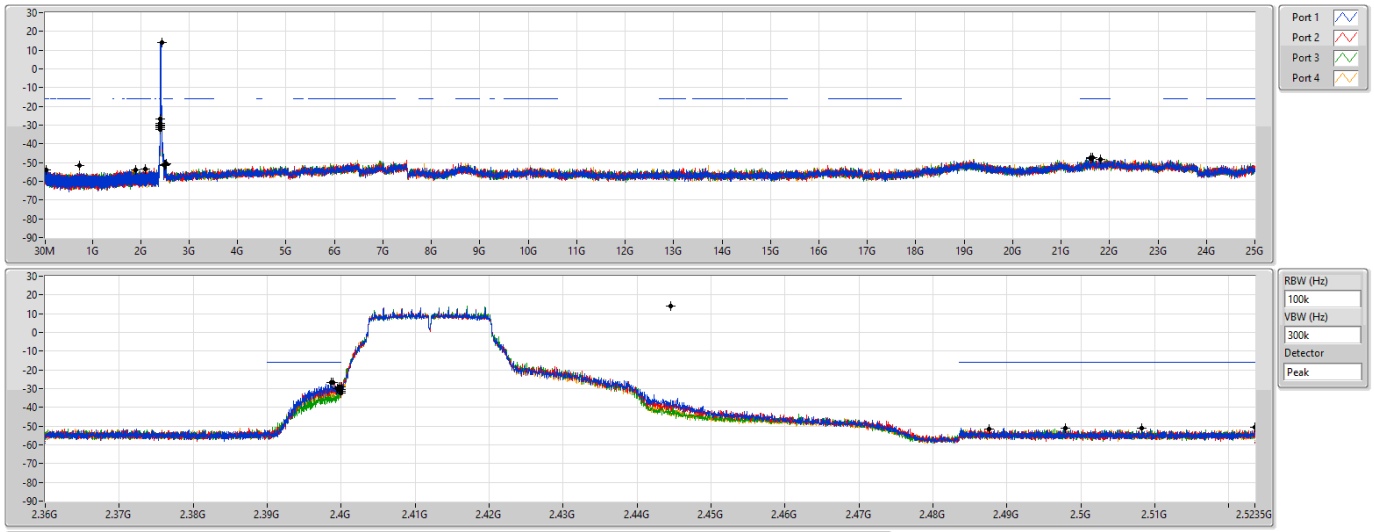
2462MHz



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
2.43749G	17.13	-12.87	1.83371G	-53.11	2.3982G	-48.41	2.4G	-49.43	2.48604G	-50.89	21.592G	-47.92	1
2.43749G	17.13	-12.87	2.15875G	-53.12	2.3987G	-47.75	2.4G	-49.81	2.51792G	-51.66	21.70438G	-48.01	2
2.43749G	17.13	-12.87	1.95371G	-53.78	2.39796G	-47.36	2.4G	-49.60	2.48692G	-50.98	21.57514G	-47.58	3
2.43749G	17.13	-12.87	2.10778G	-54.09	2.39898G	-46.21	2.4G	-50.61	2.48502G	-50.56	23.17097G	-48.16	4

802.11g_Nss1,(6Mbps)_4TX **CSENdB**

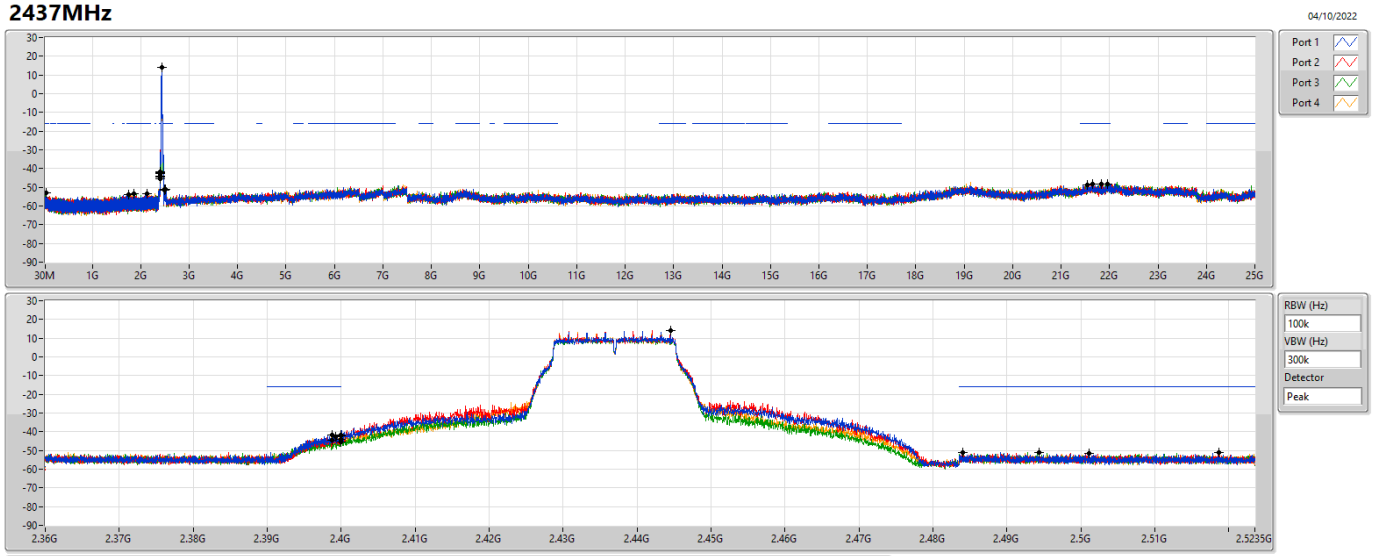
2412MHz



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
2.44451G	13.87	-16.13	2.08826G	-53.28	2.39864G	-26.85	2.4G	-31.34	2.50826G	-51.03	21.6201G	-47.28	1
2.44451G	13.87	-16.13	1.89429G	-53.90	2.3989G	-26.80	2.4G	-29.10	2.52346G	-50.65	21.64819G	-47.16	2
2.44451G	13.87	-16.13	51.84M	-53.82	2.39976G	-28.95	2.4G	-30.43	2.49792G	-51.28	21.80553G	-48.23	3
2.44451G	13.87	-16.13	736.28M	-51.76	2.39954G	-29.82	2.4G	-32.30	2.48756G	-51.34	21.60605G	-47.78	4

802.11g_Nss1,(6Mbps)_4TX **CSENdB**

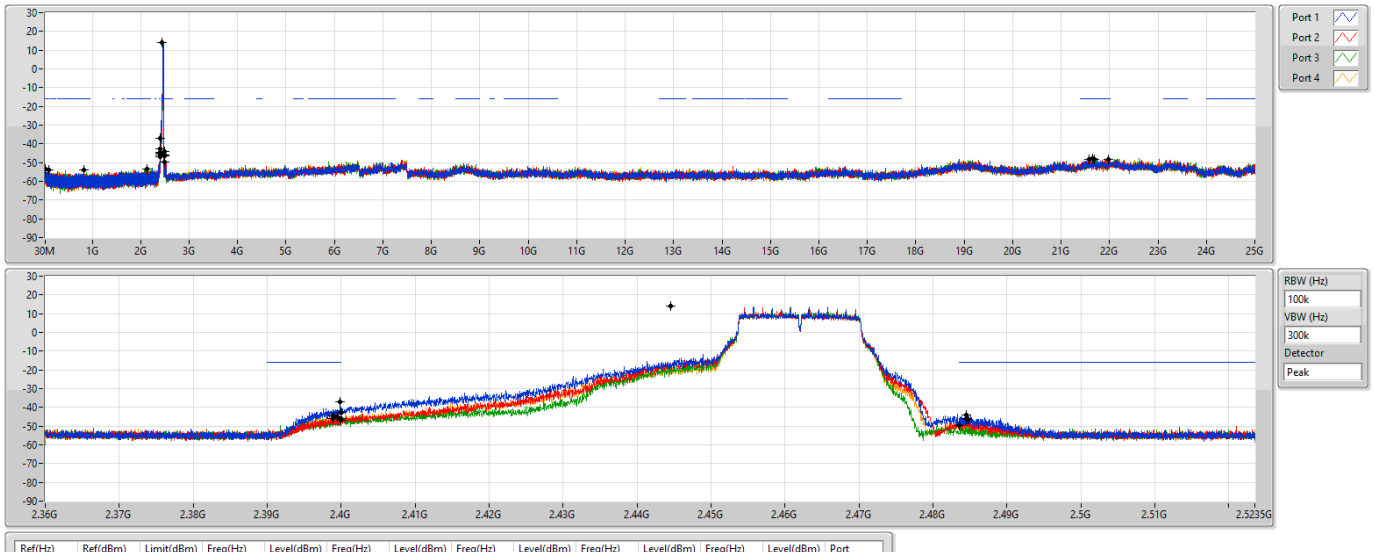
2437MHz



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
2.44451G	13.87	-16.13	1.86196G	-53.60	2.39876G	-41.67	2.4G	-42.13	2.51858G	-50.87	21.65381G	-48.39	1
2.44451G	13.87	-16.13	2.13603G	-53.59	2.4G	-41.84	2.4G	-42.27	2.50114G	-51.41	21.53862G	-48.69	2
2.44451G	13.87	-16.13	50.68M	-52.91	2.39878G	-44.40	2.4G	-45.39	2.4943G	-51.14	21.95443G	-48.28	3
2.44451G	13.87	-16.13	1.75682G	-53.95	2.39924G	-42.43	2.4G	-43.96	2.48396G	-51.04	21.83081G	-48.17	4

802.11g_Nss1,(6Mbps)_4TX **CSENdB**

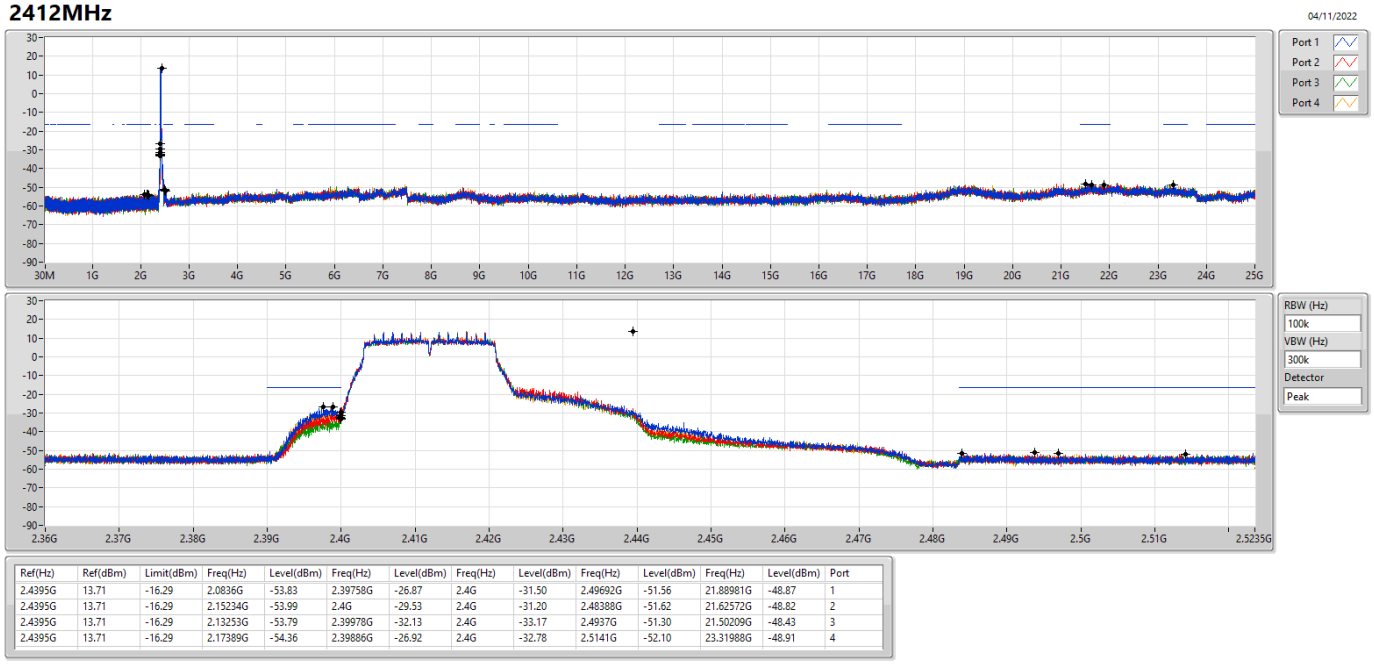
2462MHz



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
2.44451G	13.87	-16.13	825.7M	-54.05	2.39986G	-37.14	2.4G	-42.79	2.48446G	-43.90	21.58357G	-48.26	1
2.44451G	13.87	-16.13	2.13108G	-53.62	2.39952G	-45.14	2.4G	-45.90	2.48478G	-46.27	21.65662G	-47.63	2
2.44451G	13.87	-16.13	35.53M	-53.54	2.39892G	-46.12	2.4G	-46.90	2.48356G	-49.65	21.69314G	-48.30	3
2.44451G	13.87	-16.13	100.48M	-54.05	2.39892G	-44.69	2.4G	-46.78	2.4845G	-46.11	21.9741G	-48.19	4

VHT20_Nss1,(MCS0)_4TX **CSENdB**

2412MHz



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
2.4395G	13.71	-16.29	2.0836G	-53.83	2.39758G	-26.87	2.4G	-31.50	2.49692G	-51.56	21.88981G	-48.87	1
2.4395G	13.71	-16.29	2.15234G	-53.99	2.4G	-29.53	2.4G	-31.20	2.48388G	-51.62	21.62572G	-48.82	2
2.4395G	13.71	-16.29	2.13253G	-53.79	2.39978G	-32.13	2.4G	-33.17	2.4937G	-51.30	21.50209G	-48.43	3
2.4395G	13.71	-16.29	2.17389G	-54.36	2.39886G	-26.92	2.4G	-32.78	2.5141G	-52.10	23.31988G	-48.91	4

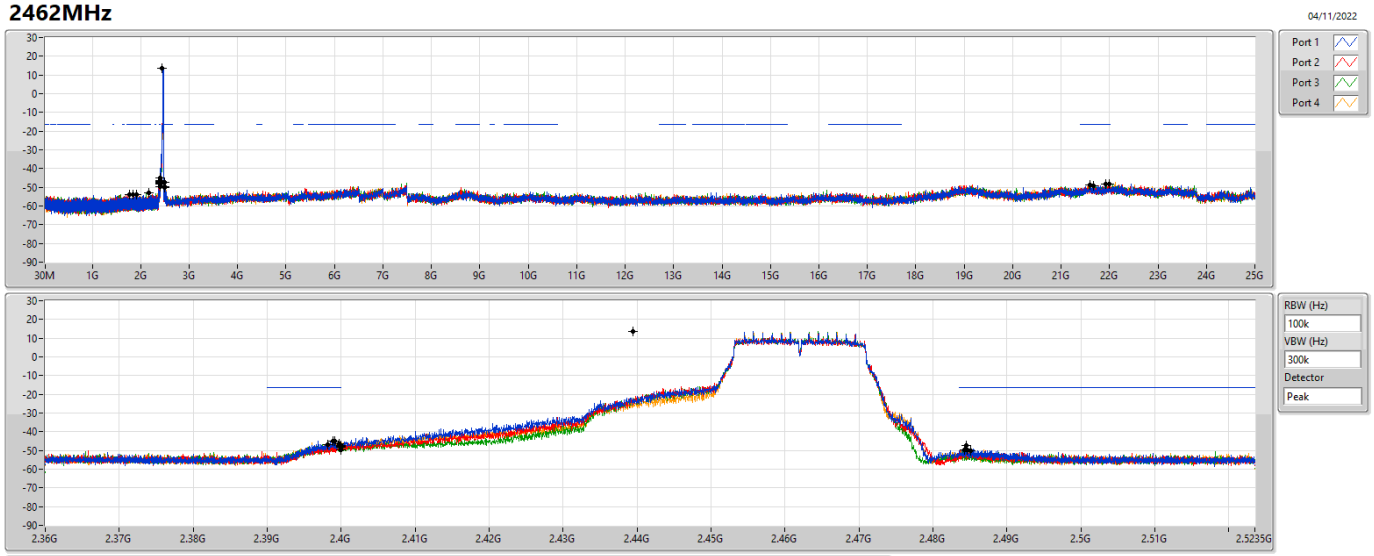
VHT20_Nss1,(MCS0)_4TX **CSENdB**

2437MHz

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
2.4395G	13.71	-16.29	2.1069G	-54.34	2.39888G	-41.21	2.4G	-44.47	2.51974G	-51.70	21.71G	-47.69	1
2.4395G	13.71	-16.29	2.1072G	-54.20	2.39978G	-41.70	2.4G	-42.77	2.4837G	-51.34	21.65381G	-47.78	2
2.4395G	13.71	-16.29	2.30758G	-54.29	2.39976G	-43.14	2.4G	-43.79	2.49212G	-50.72	21.82238G	-49.24	3
2.4395G	13.71	-16.29	1.91934G	-53.84	2.39882G	-42.37	2.4G	-44.54	2.49882G	-50.78	21.9151G	-49.01	4

VHT20_Nss1,(MCS0)_4TX **CSENdB**

2462MHz



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
2.4395G	13.71	-16.29	1.84798G	-53.71	2.39886G	-44.78	2.4G	-47.13	2.4845G	-47.49	21.98815G	-48.51	1
2.4395G	13.71	-16.29	1.77022G	-53.97	2.39814G	-46.65	2.4G	-48.39	2.48428G	-49.56	21.59762G	-48.67	2
2.4395G	13.71	-16.29	2.1602G	-53.11	2.39966G	-46.33	2.4G	-49.62	2.48504G	-49.96	21.66224G	-49.02	3
2.4395G	13.71	-16.29	1.9106G	-53.71	2.3991G	-45.23	2.4G	-47.87	2.48458G	-49.75	21.92353G	-48.41	4

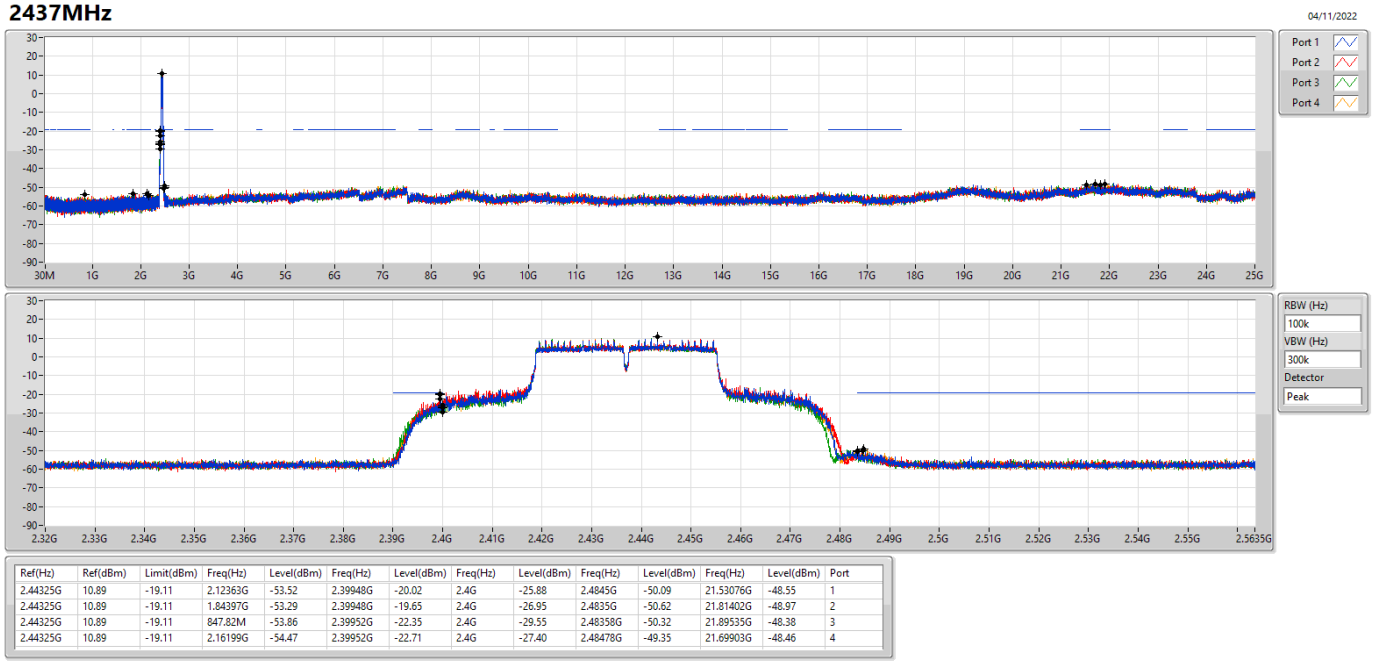
VHT40_Nss1,(MCS0)_4TX **CSENdB**

2422MHz

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
2.44325G	10.89	-19.11	2.18861G	-53.47	2.39952G	-24.97	2.4G	-27.27	2.52754G	-53.77	21.95985G	-48.40	1
2.44325G	10.89	-19.11	2.19691G	-53.43	2.39948G	-23.62	2.4G	-26.22	2.48506G	-54.01	21.71866G	-48.81	2
2.44325G	10.89	-19.11	2.30741G	-54.18	2.39984G	-25.39	2.4G	-26.50	2.5403G	-53.75	23.35653G	-48.80	3
2.44325G	10.89	-19.11	641.14M	-53.84	2.3998G	-26.18	2.4G	-27.87	2.48978G	-54.25	22.00192G	-48.49	4

VHT40_Nss1,(MCS0)_4TX **CSENdB**

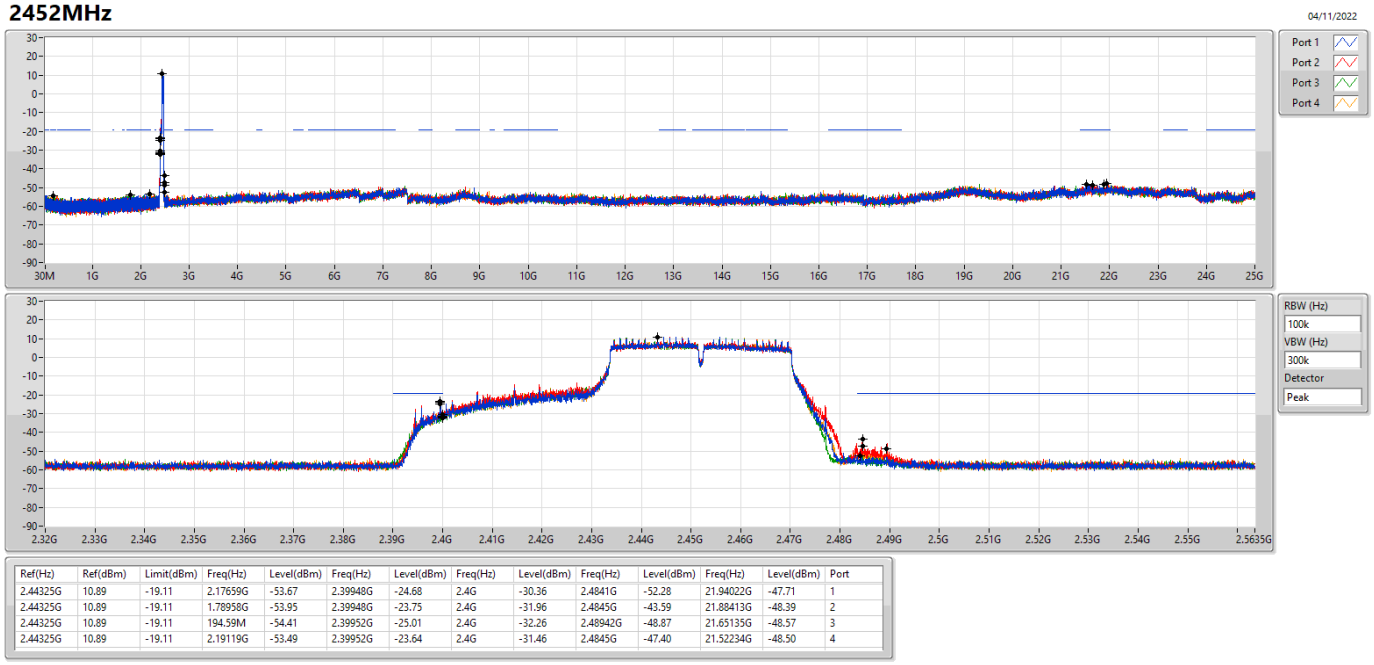
2437MHz



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
2.44325G	10.89	-19.11	2.12363G	-53.52	2.39948G	-20.02	2.4G	-25.88	2.4845G	-50.09	21.53076G	-48.55	1
2.44325G	10.89	-19.11	1.84397G	-53.29	2.39948G	-19.65	2.4G	-26.95	2.4835G	-50.62	21.81402G	-48.97	2
2.44325G	10.89	-19.11	847.82M	-53.86	2.39952G	-22.35	2.4G	-29.55	2.48358G	-50.32	21.89535G	-48.38	3
2.44325G	10.89	-19.11	2.16199G	-54.47	2.39952G	-22.71	2.4G	-27.40	2.48478G	-49.35	21.69903G	-48.46	4

VHT40_Nss1,(MCS0)_4TX **CSENdB**

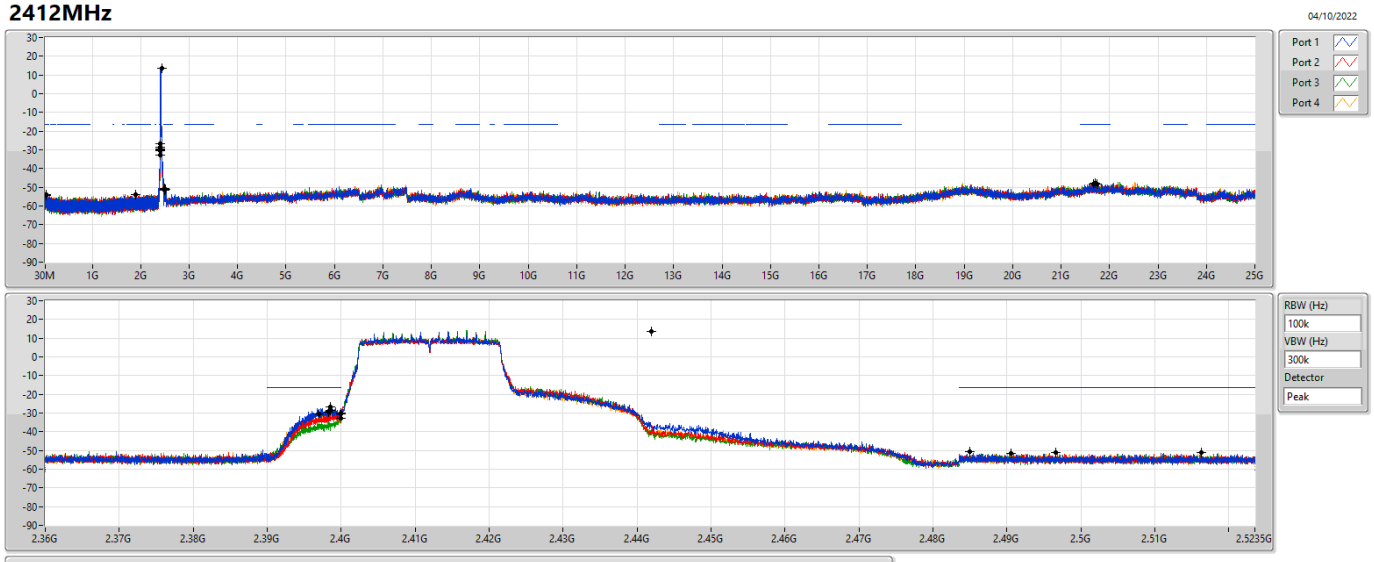
2452MHz



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
2.44325G	10.89	-19.11	2.17659G	-53.67	2.39948G	-24.68	2.4G	-30.36	2.4841G	-52.28	21.94022G	-47.71	1
2.44325G	10.89	-19.11	1.78958G	-53.95	2.39948G	-23.75	2.4G	-31.96	2.4845G	-43.59	21.88413G	-48.39	2
2.44325G	10.89	-19.11	194.59M	-54.41	2.39952G	-25.01	2.4G	-32.26	2.48942G	-48.87	21.65135G	-48.57	3
2.44325G	10.89	-19.11	2.19119G	-53.49	2.39952G	-23.64	2.4G	-31.46	2.4845G	-47.40	21.52234G	-48.50	4

802.11ax HEW20_Nss1,(MCS0)_4TX **CSENdB**

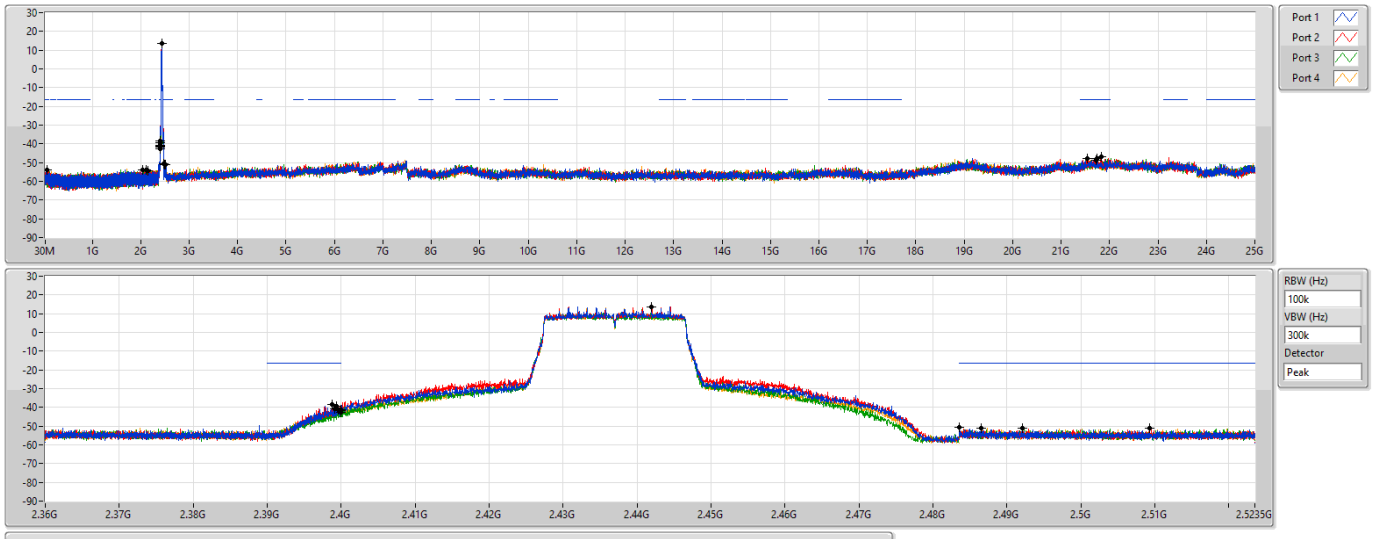
2412MHz



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
2.44196G	13.80	-16.20	46.89M	-53.76	2.39856G	-26.95	2.4G	-30.58	2.51628G	-50.92	21.73248G	-48.50	1
2.44196G	13.80	-16.20	45.44M	-54.28	2.39824G	-29.36	2.4G	-30.69	2.48502G	-50.85	21.74372G	-48.51	2
2.44196G	13.80	-16.20	47.18M	-54.28	2.39702G	-30.48	2.4G	-29.77	2.4905G	-51.35	21.70438G	-47.88	3
2.44196G	13.80	-16.20	1.90332G	-53.87	2.39854G	-28.45	2.4G	-32.81	2.4966G	-51.32	21.66224G	-48.17	4

802.11ax HEW20_Nss1,(MCS0)_4TX **CSENdB**

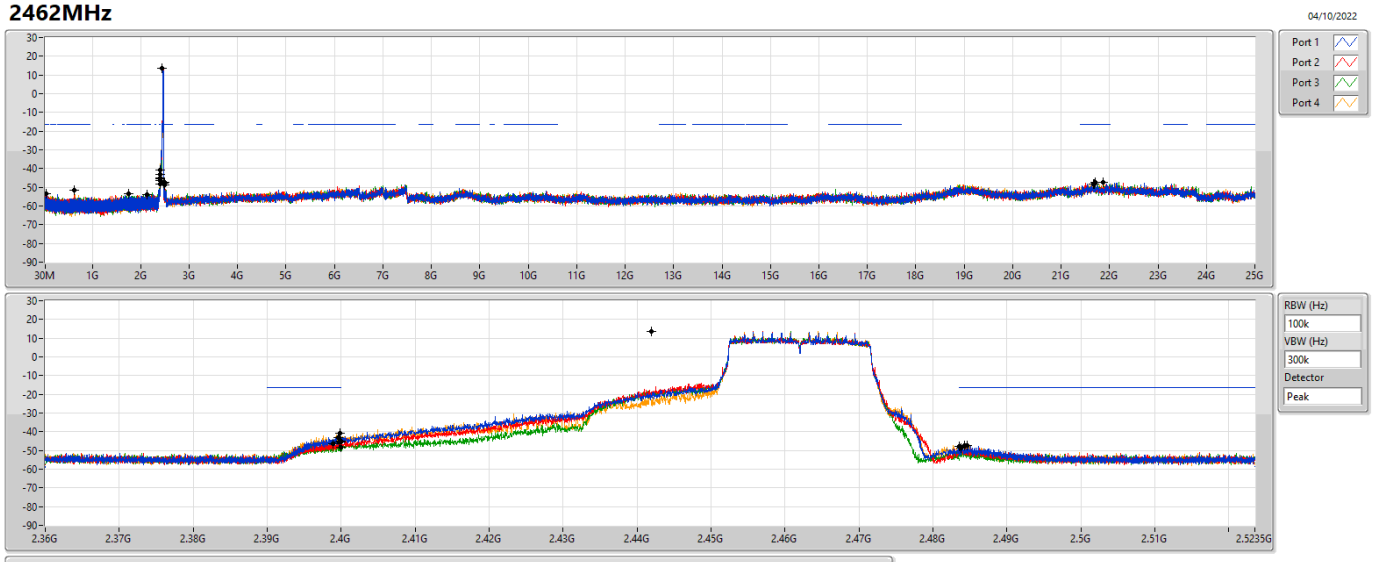
2437MHz



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
2.44196G	13.80	-16.20	2.11739G	-53.70	2.39934G	-39.15	2.4G	-41.72	2.49208G	-51.32	21.72686G	-48.54	1
2.44196G	13.80	-16.20	2.0338G	-53.78	2.39872G	-38.44	2.4G	-41.39	2.48656G	-50.88	21.82519G	-47.03	2
2.44196G	13.80	-16.20	2.1471G	-54.43	2.39958G	-41.03	2.4G	-41.49	2.50926G	-51.29	21.533G	-47.68	3
2.44196G	13.80	-16.20	61.46M	-53.91	2.39908G	-40.85	2.4G	-42.76	2.4835G	-50.67	21.73248G	-47.96	4

802.11ax HEW20_Nss1,(MCS0)_4TX **CSENdB**

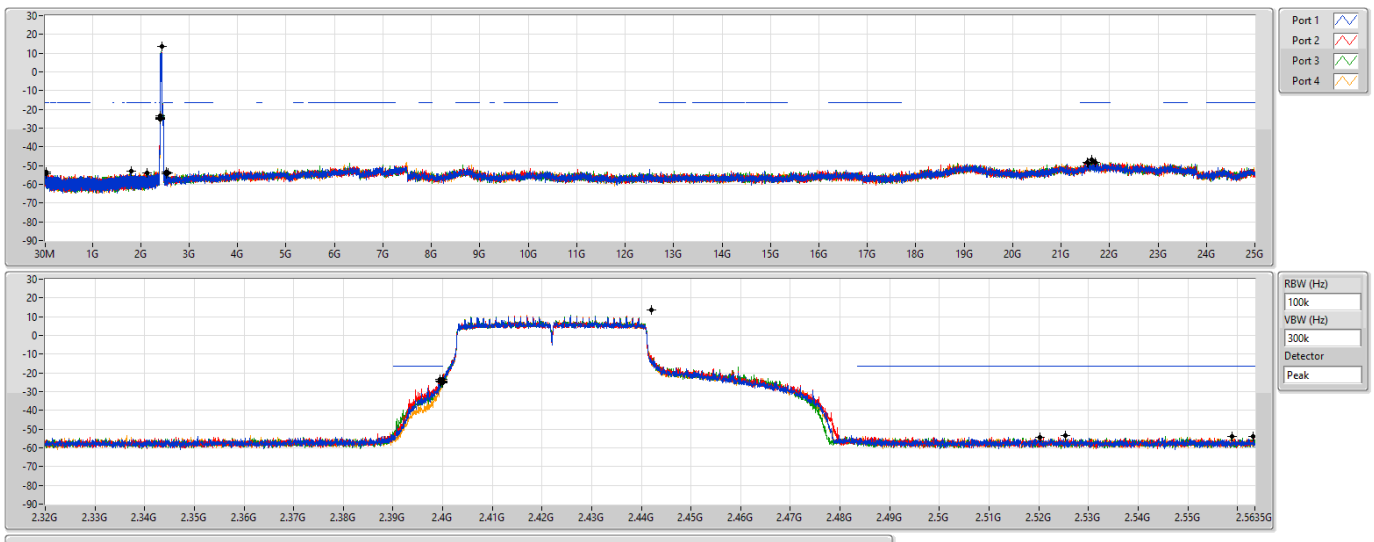
2462MHz



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
2.44196G	13.80	-16.20	2.12292G	-53.96	2.39962G	-42.90	2.4G	-45.21	2.48426G	-47.13	21.70438G	-47.20	1
2.44196G	13.80	-16.20	635.22M	-51.35	2.39966G	-45.35	2.4G	-48.11	2.48456G	-47.41	21.87296G	-47.51	2
2.44196G	13.80	-16.20	1.74517G	-53.38	2.39894G	-46.55	2.4G	-48.47	2.48376G	-48.70	21.69314G	-48.28	3
2.44196G	13.80	-16.20	45.15M	-53.38	2.39978G	-40.94	2.4G	-45.51	2.4835G	-47.75	21.67067G	-48.37	4

802.11ax HEW40_Nss1,(MCS0)_4TX **CSENdB**

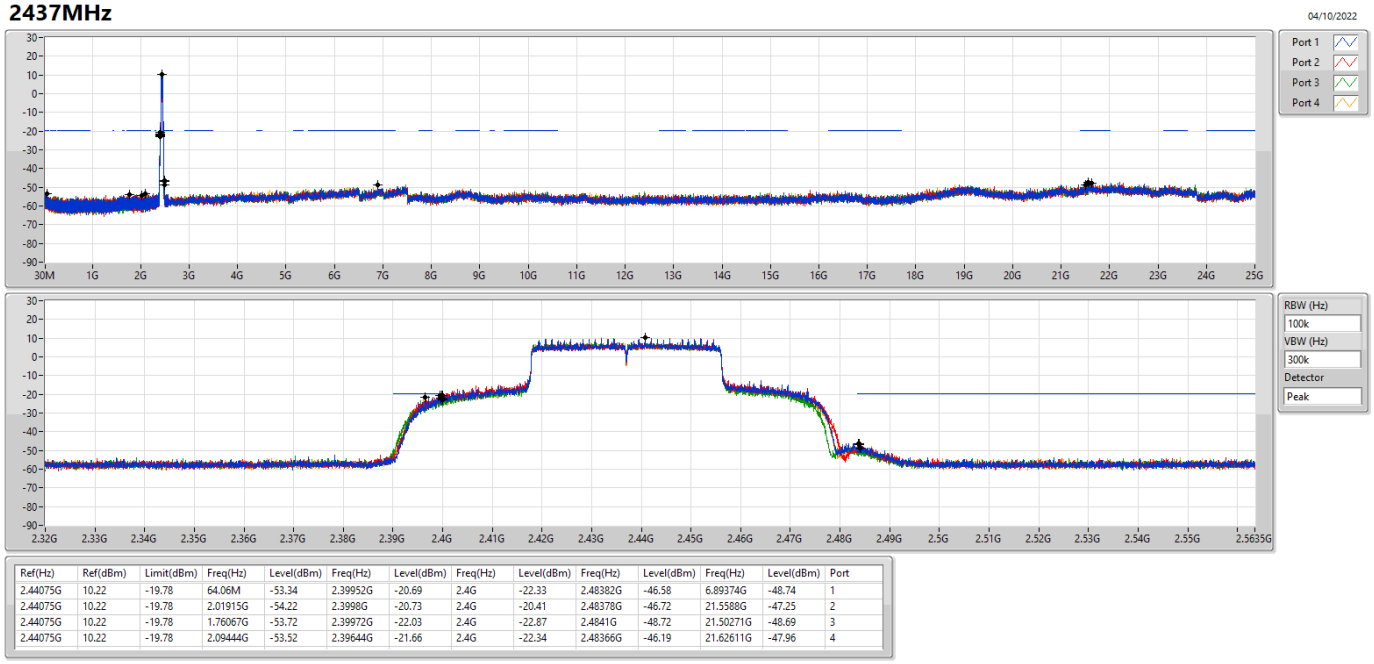
2422MHz



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
2.44196G	13.80	-16.20	55.48M	-54.19	2.39948G	-24.52	2.4G	-24.64	2.52018G	-54.38	21.69903G	-48.09	1
2.44196G	13.80	-16.20	1.80933G	-53.13	2.39952G	-23.24	2.4G	-23.26	2.56314G	-53.68	21.5588G	-48.59	2
2.44196G	13.80	-16.20	44.89M	-53.46	2.3996G	-24.85	2.4G	-24.55	2.52542G	-53.65	21.53917G	-48.21	3
2.44196G	13.80	-16.20	2.12678G	-54.03	2.4G	-25.11	2.4G	-24.19	2.55886G	-54.08	21.63172G	-47.10	4

802.11ax HEW40_Nss1,(MCS0)_4TX **CSENdB**

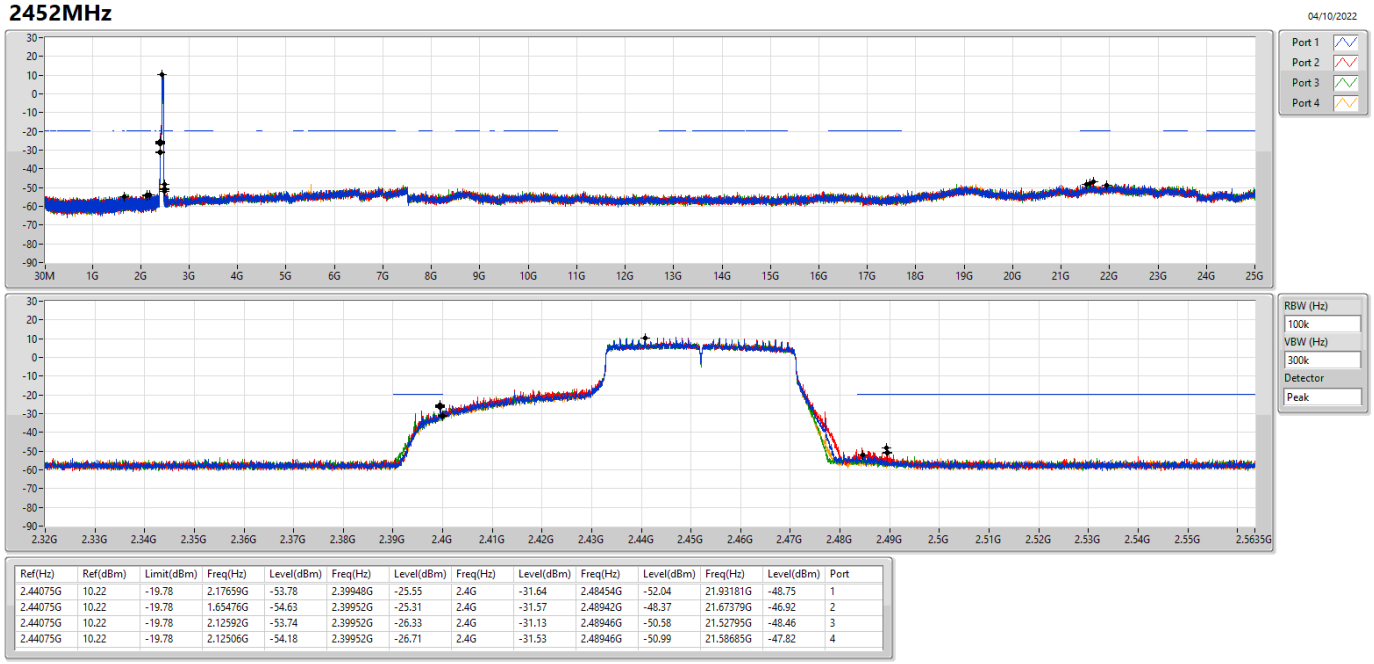
2437MHz



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
2.44075G	10.22	-19.78	64.06M	-53.34	2.39952G	-20.69	2.4G	-22.33	2.48382G	-46.58	6.89374G	-48.74	1
2.44075G	10.22	-19.78	2.01915G	-54.22	2.3998G	-20.73	2.4G	-20.41	2.48378G	-46.72	21.5588G	-47.25	2
2.44075G	10.22	-19.78	1.76067G	-53.72	2.39972G	-22.03	2.4G	-22.87	2.4841G	-48.72	21.50271G	-48.69	3
2.44075G	10.22	-19.78	2.09444G	-53.52	2.39644G	-21.66	2.4G	-22.34	2.48366G	-46.19	21.62611G	-47.96	4

802.11ax HEW40_Nss1,(MCS0)_4TX **CSENdB**

2452MHz

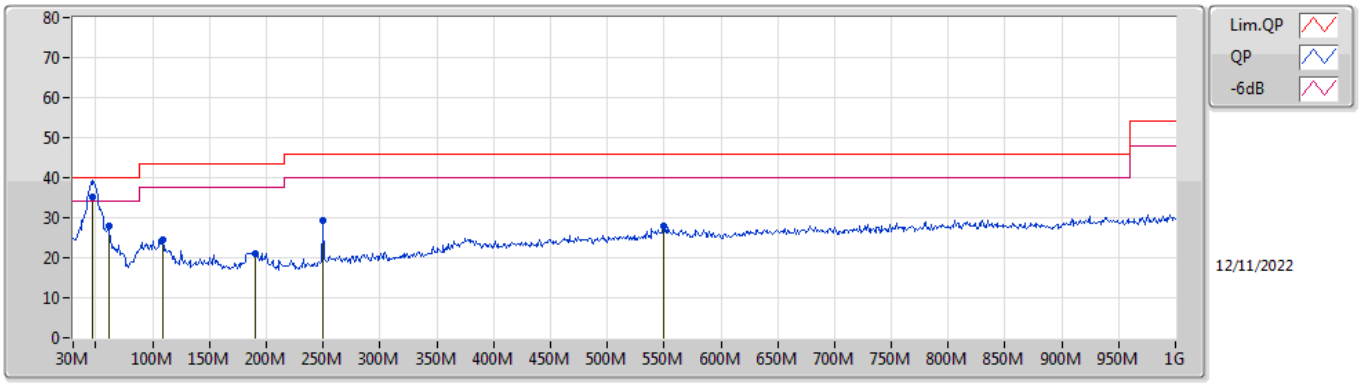


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	10.22	-19.78	2.17659G	-53.78	2.39948G	-25.55	2.4G	-31.64	2.48454G	-52.04	21.93181G	-48.75	1
2.44075G	10.22	-19.78	1.65476G	-54.63	2.39952G	-25.31	2.4G	-31.57	2.48942G	-48.37	21.67379G	-46.92	2
2.44075G	10.22	-19.78	2.12592G	-53.74	2.39952G	-26.33	2.4G	-31.13	2.48946G	-50.58	21.52795G	-48.46	3
2.44075G	10.22	-19.78	2.12506G	-54.18	2.39952G	-26.71	2.4G	-31.53	2.48946G	-50.99	21.58685G	-47.82	4

Summary

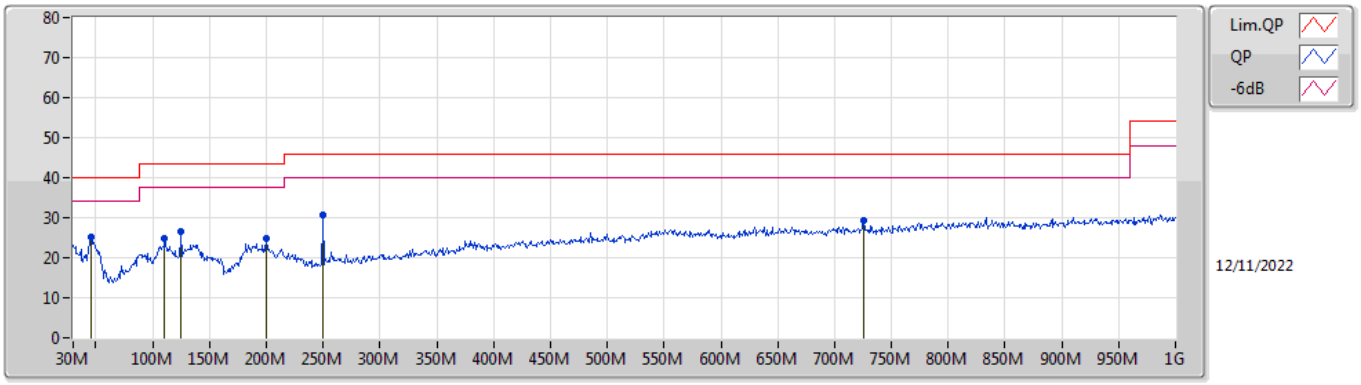
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	47.46M	35.22	40.00	-4.78	Vertical

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	47.46M	35.22	40.00	-4.78	-16.29	3	Vertical	335	1.00	"Worst"	51.51	14.91	0.64	31.84
PK	61.04M	27.94	40.00	-12.06	-18.91	3	Vertical	59	1.00	-	46.85	12.23	0.78	31.92
PK	108.57M	24.39	43.50	-19.11	-13.26	3	Vertical	188	1.00	-	37.65	17.55	1.16	31.97
PK	190.05M	21.18	43.50	-22.32	-15.53	3	Vertical	341	1.00	-	36.71	14.80	1.68	32.01
PK	250.19M	29.42	46.00	-16.58	-11.78	3	Vertical	359	1.50	-	41.20	18.22	2.00	32.00
PK	549.92M	27.78	46.00	-18.22	-4.73	3	Vertical	1	1.25	-	32.51	24.48	3.17	32.38

Mode 3



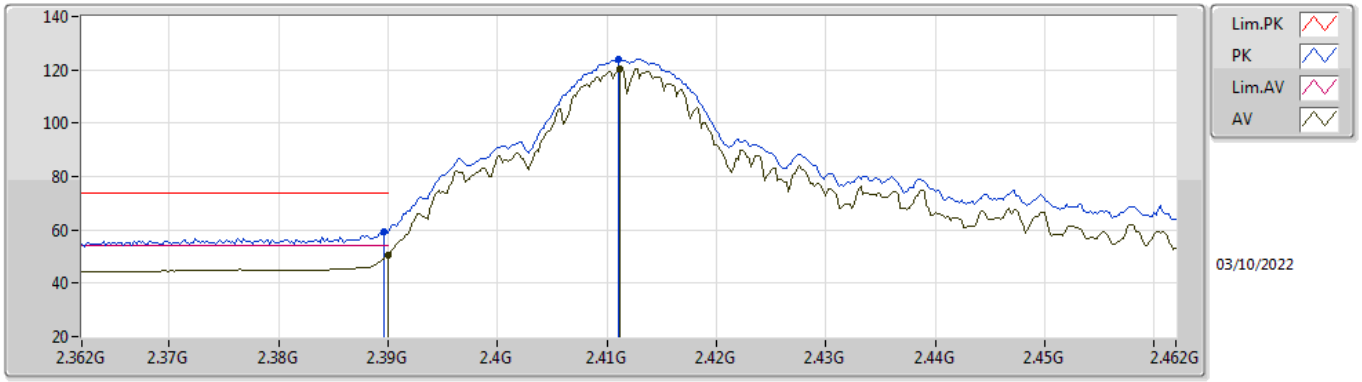
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	45.52M	25.34	40.00	-14.66	-15.43	3	Horizontal	245	3.00	"Worst"	40.77	15.78	0.62	31.83
PK	110.51M	24.70	43.50	-18.80	-13.19	3	Horizontal	248	3.00	-	37.89	17.61	1.17	31.97
PK	125.06M	26.48	43.50	-17.02	-12.81	3	Horizontal	94	3.00	-	39.29	17.89	1.28	31.98
PK	199.75M	24.77	43.50	-18.73	-15.19	3	Horizontal	259	1.50	-	39.96	15.10	1.73	32.02
PK	250.19M	30.65	46.00	-15.35	-11.78	3	Horizontal	252	1.25	-	42.43	18.22	2.00	32.00
PK	725.49M	29.18	46.00	-16.82	-4.07	3	Horizontal	148	1.25	-	33.25	24.83	3.69	32.59

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	AV	2.4852G	53.93	54.00	-0.07	3	Horizontal	181	2.32	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

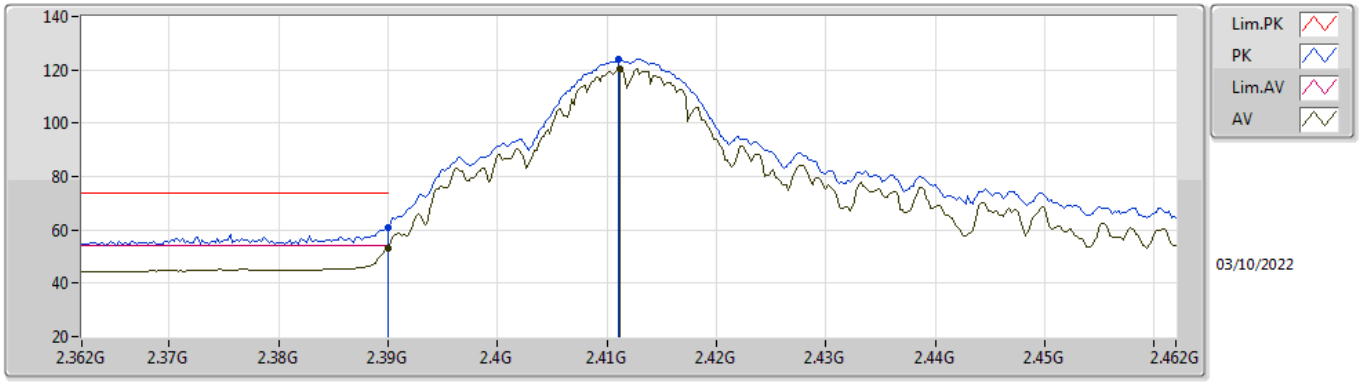


EUT Y_4TX
Setting 102
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3896G	59.31	74.00	-14.69	27.74	3	Vertical	173	1.93	-	28.38	3.19	-
AV	2.39G	50.73	54.00	-3.27	19.15	3	Vertical	173	1.93	-	28.38	3.20	-
PK	2.411G	124.17	Inf	-Inf	92.56	3	Vertical	173	1.93	-	28.40	3.21	-
AV	2.4112G	120.41	Inf	-Inf	88.80	3	Vertical	173	1.93	-	28.40	3.21	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

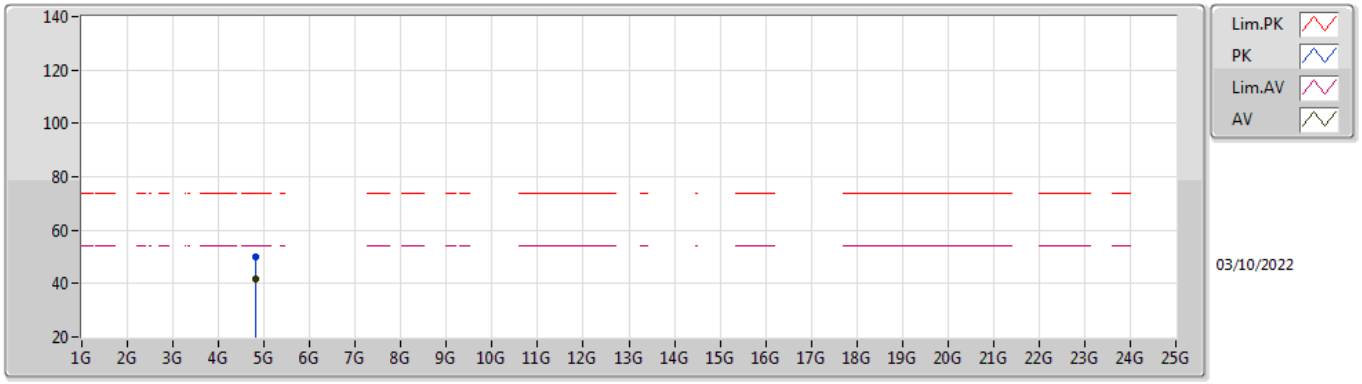


EUT Y_4TX
Setting 102
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	60.98	74.00	-13.02	29.40	3	Horizontal	175	1.92	-	28.38	3.20	-
AV	2.39G	53.04	54.00	-0.96	21.46	3	Horizontal	175	1.92	-	28.38	3.20	-
PK	2.411G	124.09	Inf	-Inf	92.48	3	Horizontal	175	1.92	-	28.40	3.21	-
AV	2.4112G	120.39	Inf	-Inf	88.78	3	Horizontal	175	1.92	-	28.40	3.21	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

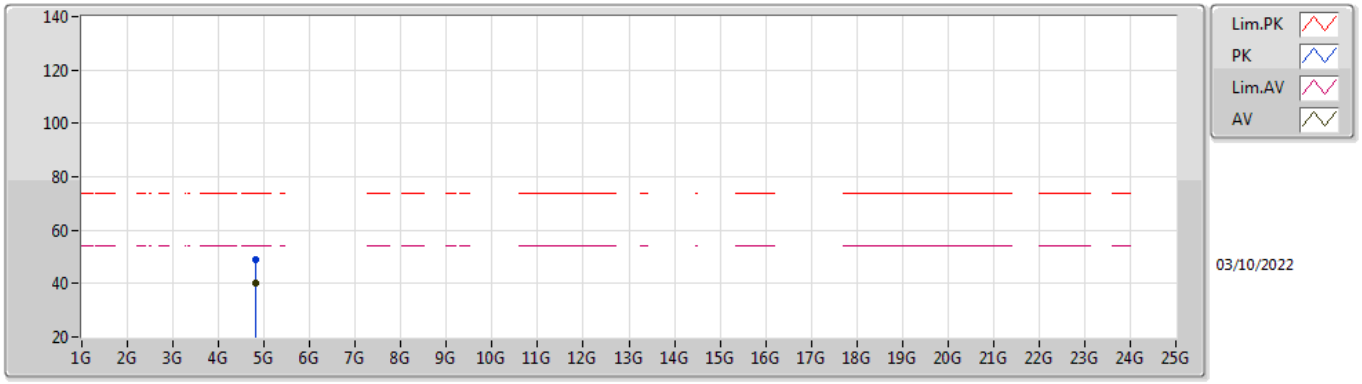


EUT Y_4TX
Setting 102
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.824G	50.06	74.00	-23.94	42.31	3	Vertical	220	1.05	-	32.94	5.61	30.80
AV	4.824G	41.50	54.00	-12.50	33.75	3	Vertical	220	1.05	-	32.94	5.61	30.80

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

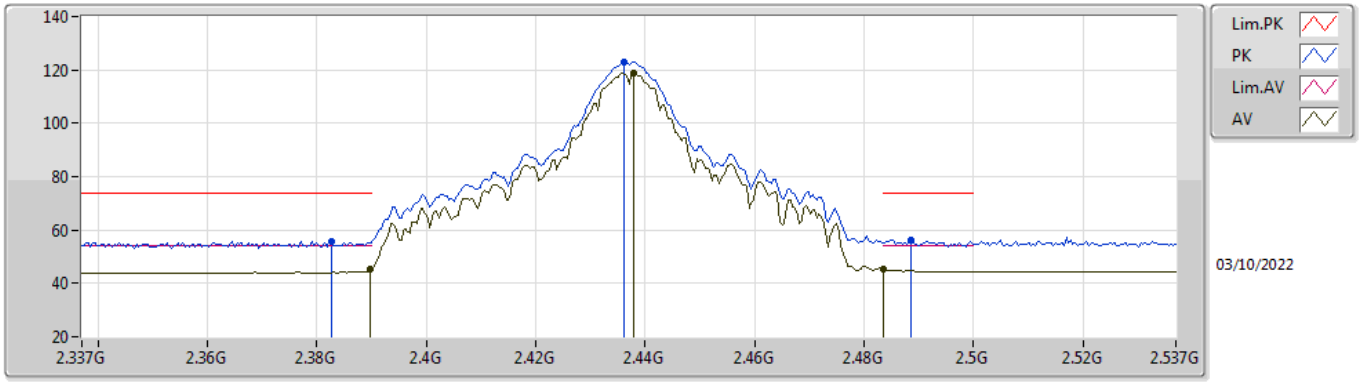


EUT Y_4TX
Setting 102
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82388G	48.82	74.00	-25.18	41.07	3	Horizontal	308	1.84	-	32.94	5.61	30.80
AV	4.824G	40.28	54.00	-13.72	32.53	3	Horizontal	308	1.84	-	32.94	5.61	30.80

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

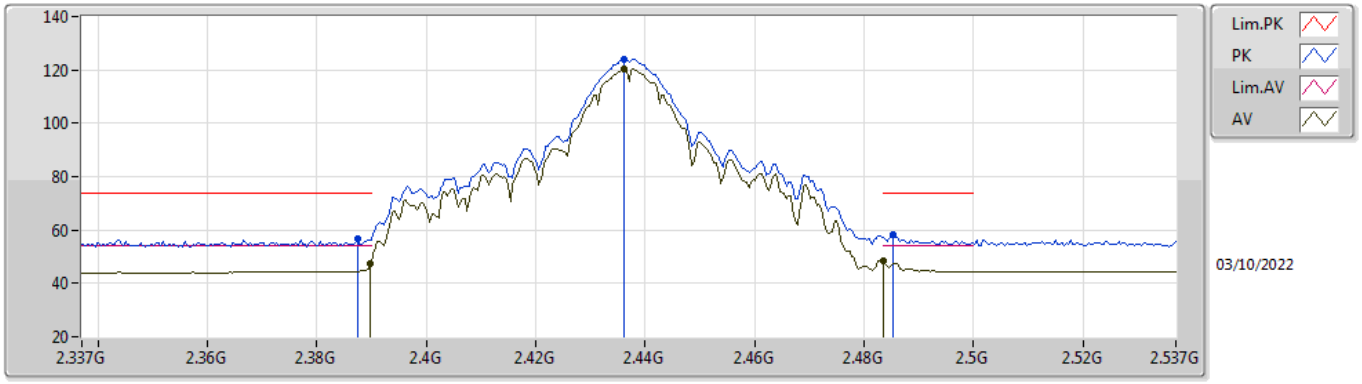


EUT Y_4TX
Setting 108
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3826G	55.84	74.00	-18.16	24.28	3	Vertical	318	1.20	-	28.37	3.19	-
AV	2.3898G	45.40	54.00	-8.60	13.83	3	Vertical	318	1.20	-	28.38	3.19	-
PK	2.4362G	123.08	Inf	-Inf	91.46	3	Vertical	318	1.20	-	28.40	3.22	-
AV	2.4378G	119.01	Inf	-Inf	87.39	3	Vertical	318	1.20	-	28.40	3.22	-
PK	2.4886G	56.22	74.00	-17.78	24.43	3	Vertical	318	1.20	-	28.55	3.24	-
AV	2.4835G	45.52	54.00	-8.48	13.75	3	Vertical	318	1.20	-	28.53	3.24	-

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

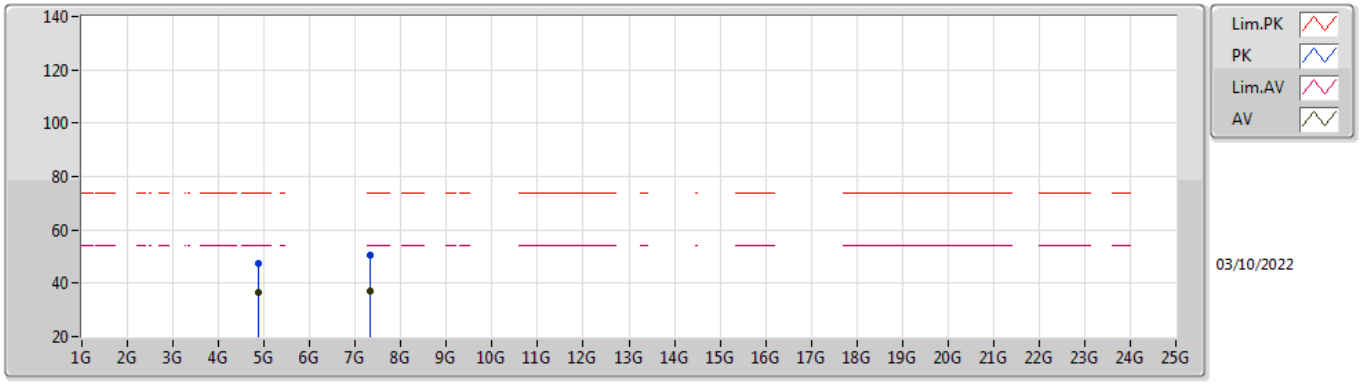


EUT Y_4TX
Setting 108
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3874G	56.60	74.00	-17.40	25.04	3	Horizontal	166	1.91	-	28.37	3.19	-
AV	2.3898G	47.35	54.00	-6.65	15.78	3	Horizontal	166	1.91	-	28.38	3.19	-
PK	2.4362G	124.16	Inf	-Inf	92.54	3	Horizontal	166	1.91	-	28.40	3.22	-
AV	2.4362G	120.32	Inf	-Inf	88.70	3	Horizontal	166	1.91	-	28.40	3.22	-
PK	2.4854G	58.44	74.00	-15.56	26.66	3	Horizontal	166	1.91	-	28.54	3.24	-
AV	2.4835G	48.54	54.00	-5.46	16.77	3	Horizontal	166	1.91	-	28.53	3.24	-

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

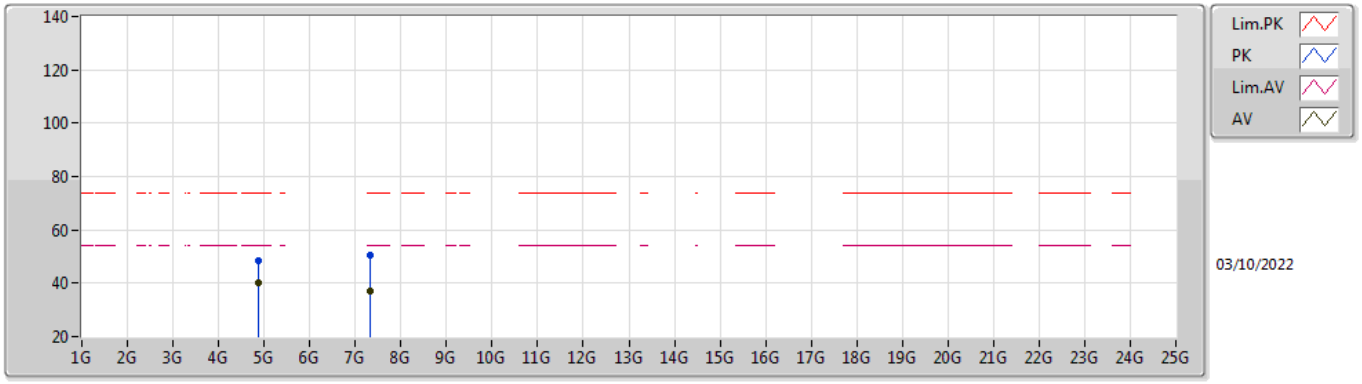


EUT Y_4TX
Setting 108
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87394G	47.16	74.00	-26.84	39.15	3	Vertical	114	1.80	-	33.15	5.64	30.78
AV	4.874G	36.74	54.00	-17.26	28.73	3	Vertical	114	1.80	-	33.15	5.64	30.78
PK	7.31026G	50.54	74.00	-23.46	39.20	3	Vertical	339	2.90	-	36.42	6.84	31.92
AV	7.31494G	36.89	54.00	-17.11	25.54	3	Vertical	339	2.90	-	36.43	6.84	31.92

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

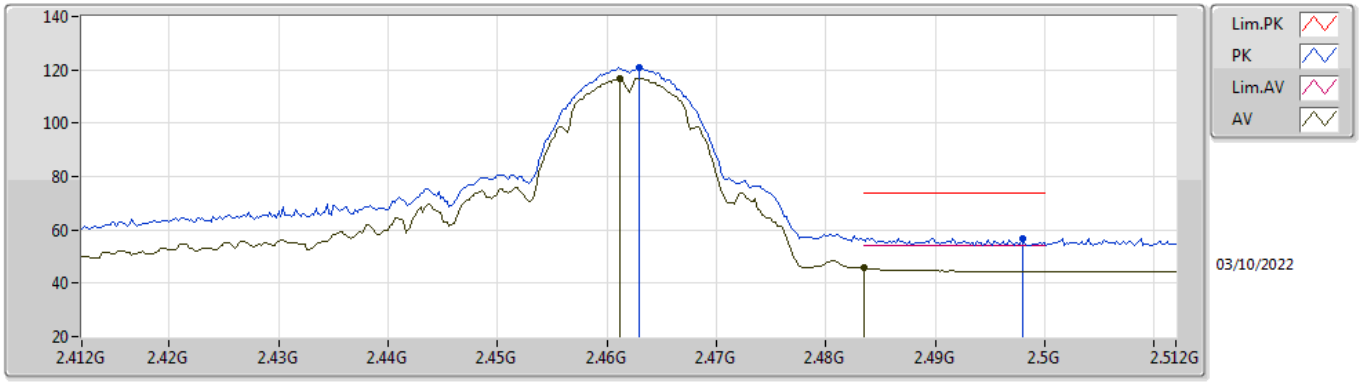


EUT Y_4TX
Setting 108
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87418G	48.48	74.00	-25.52	40.47	3	Horizontal	244	1.83	-	33.15	5.64	30.78
AV	4.874G	39.95	54.00	-14.05	31.94	3	Horizontal	244	1.83	-	33.15	5.64	30.78
PK	7.31032G	50.74	74.00	-23.26	39.40	3	Horizontal	23	1.51	-	36.42	6.84	31.92
AV	7.31272G	36.92	54.00	-17.08	25.57	3	Horizontal	23	1.51	-	36.43	6.84	31.92

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

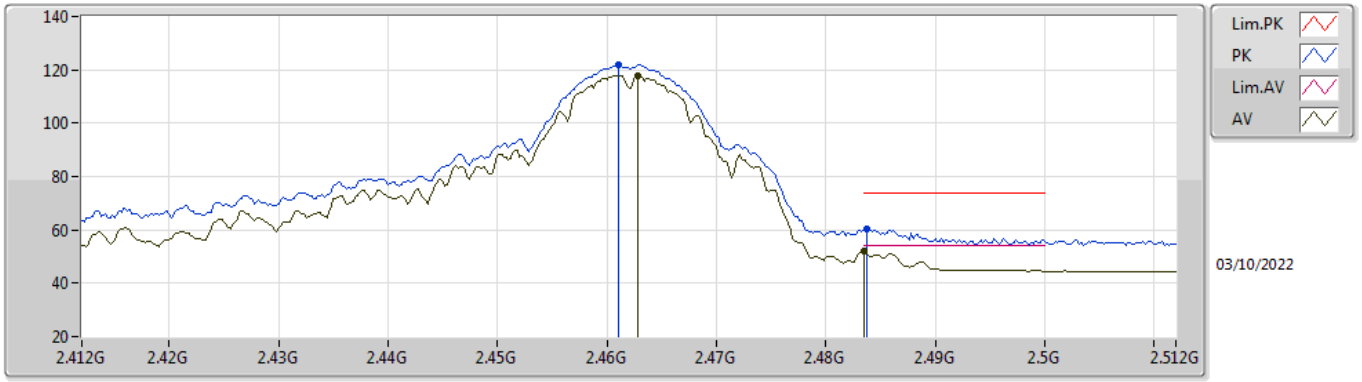


EUT Y_4TX
Setting 100
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.463G	120.86	Inf	-Inf	89.18	3	Vertical	152	1.76	-	28.45	3.23	-
AV	2.4612G	116.79	Inf	-Inf	85.12	3	Vertical	152	1.76	-	28.44	3.23	-
PK	2.498G	56.84	74.00	-17.16	25.00	3	Vertical	152	1.76	-	28.59	3.25	-
AV	2.4835G	45.81	54.00	-8.19	14.04	3	Vertical	152	1.76	-	28.53	3.24	-

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

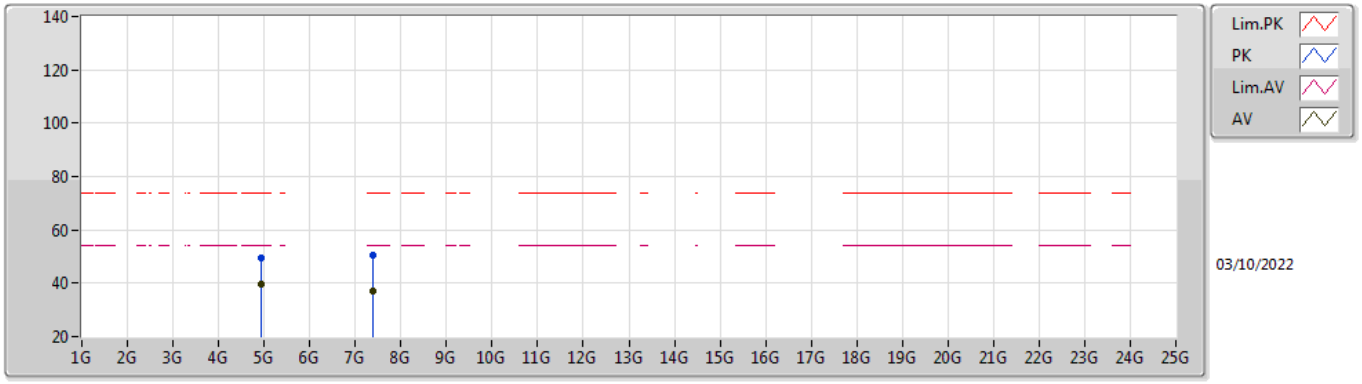


EUT Y_4TX
Setting 100
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.461G	122.10	Inf	-Inf	90.43	3	Horizontal	185	2.54	-	28.44	3.23	-
AV	2.4628G	117.91	Inf	-Inf	86.23	3	Horizontal	185	2.54	-	28.45	3.23	-
PK	2.4838G	60.15	74.00	-13.85	28.37	3	Horizontal	185	2.54	-	28.54	3.24	-
AV	2.4835G	52.12	54.00	-1.88	20.35	3	Horizontal	185	2.54	-	28.53	3.24	-

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

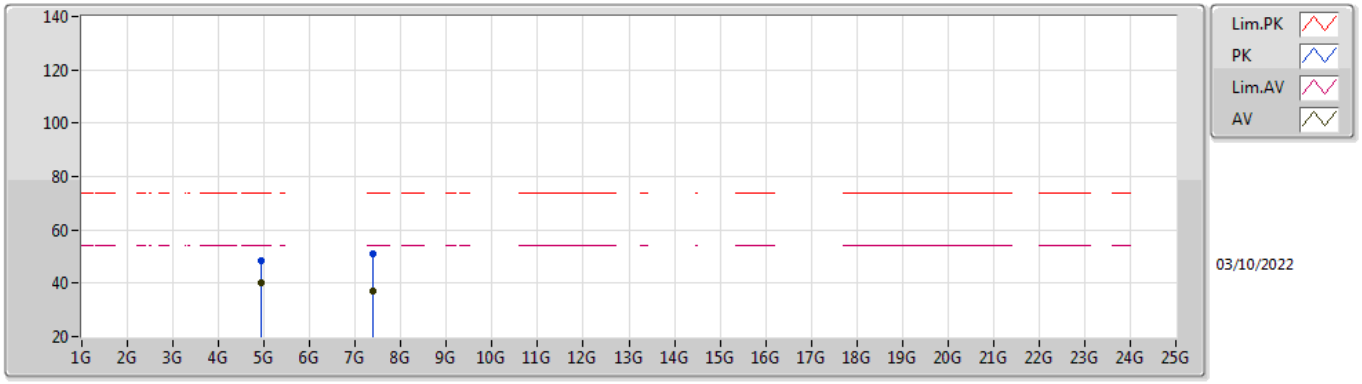


EUT Y_4TX
Setting 100
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92394G	49.46	74.00	-24.54	41.31	3	Vertical	221	1.74	-	33.25	5.66	30.76
AV	4.924G	39.61	54.00	-14.39	31.46	3	Vertical	221	1.74	-	33.25	5.66	30.76
PK	7.38918G	50.65	74.00	-23.35	39.31	3	Vertical	161	2.16	-	36.50	6.81	31.97
AV	7.3845G	37.11	54.00	-16.89	25.76	3	Vertical	161	2.16	-	36.50	6.81	31.96

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

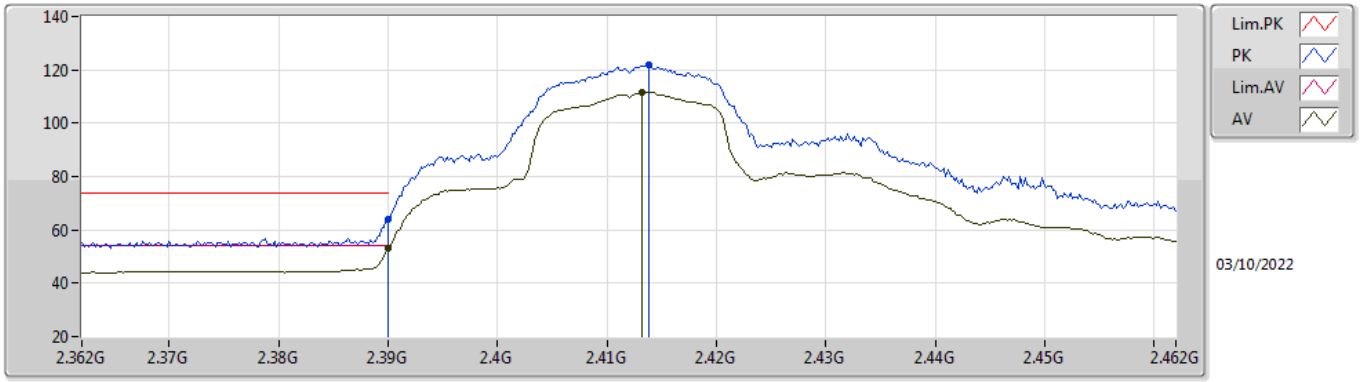


EUT Y_4TX
Setting 100
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92394G	48.38	74.00	-25.62	40.23	3	Horizontal	6	1.98	-	33.25	5.66	30.76
AV	4.924G	39.93	54.00	-14.07	31.78	3	Horizontal	6	1.98	-	33.25	5.66	30.76
PK	7.38222G	50.83	74.00	-23.17	39.48	3	Horizontal	163	2.68	-	36.50	6.81	31.96
AV	7.38204G	37.11	54.00	-16.89	25.76	3	Horizontal	163	2.68	-	36.50	6.81	31.96

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

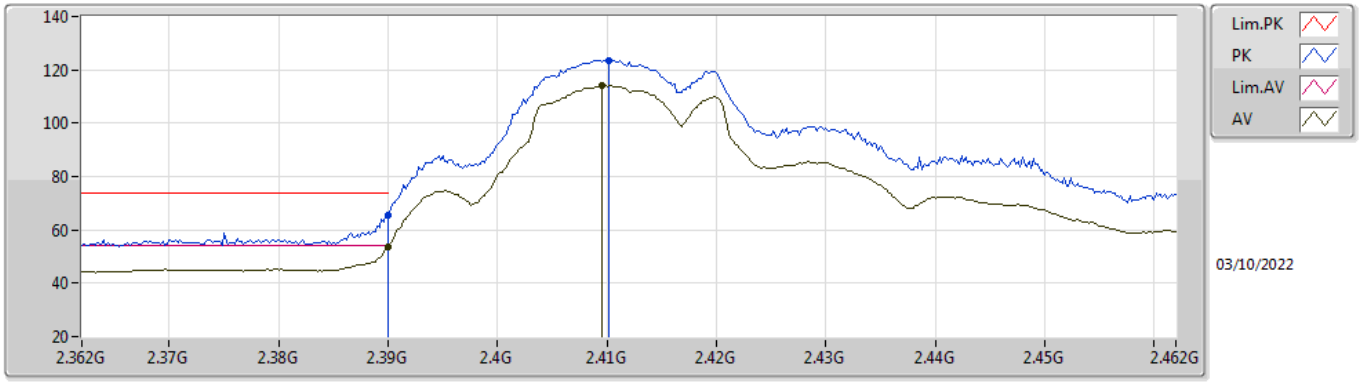


EUT Y_4TX
Setting 101
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	64.20	74.00	-9.80	32.62	3	Vertical	317	1.78	-	28.38	3.20	-
AV	2.39G	53.23	54.00	-0.77	21.65	3	Vertical	317	1.78	-	28.38	3.20	-
PK	2.4138G	121.89	Inf	-Inf	90.28	3	Vertical	317	1.78	-	28.40	3.21	-
AV	2.4132G	111.58	Inf	-Inf	79.97	3	Vertical	317	1.78	-	28.40	3.21	-

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

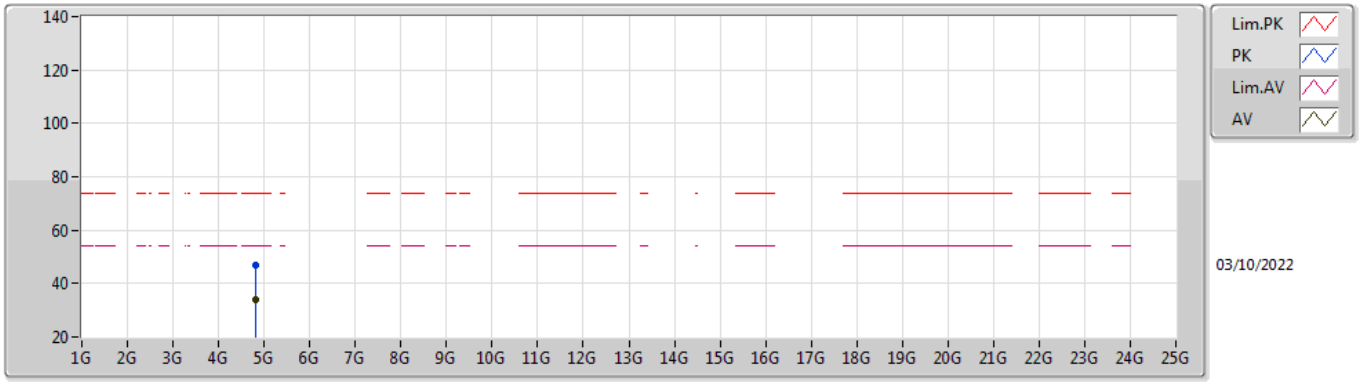


EUT Y_4TX
Setting 101
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	65.29	74.00	-8.71	33.71	3	Horizontal	158	1.97	-	28.38	3.20	-
AV	2.39G	53.65	54.00	-0.35	22.07	3	Horizontal	158	1.97	-	28.38	3.20	-
PK	2.4102G	123.70	Inf	-Inf	92.09	3	Horizontal	158	1.97	-	28.40	3.21	-
AV	2.4096G	113.99	Inf	-Inf	82.39	3	Horizontal	158	1.97	-	28.40	3.20	-

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

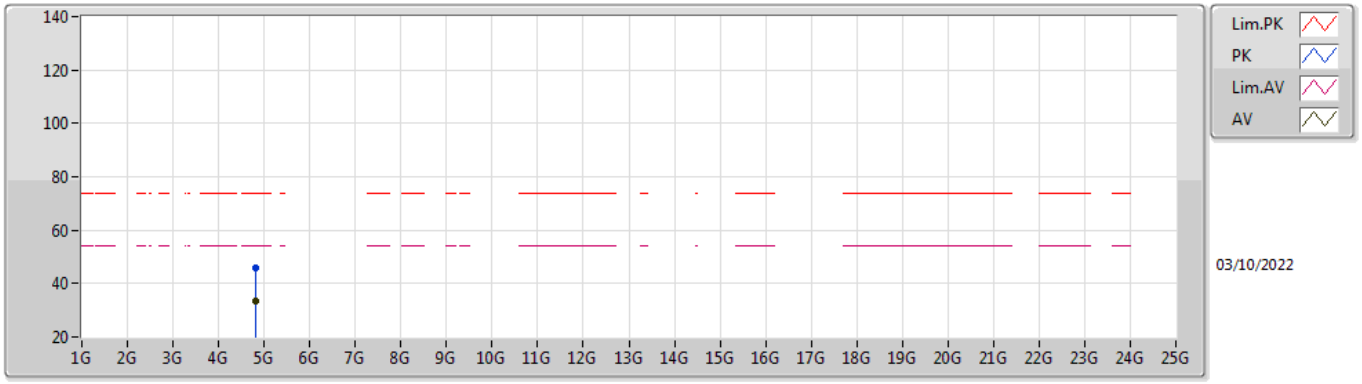


EUT Y_4TX
Setting 101
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82154G	46.74	74.00	-27.26	39.00	3	Vertical	146	1.80	-	32.93	5.61	30.80
AV	4.8177G	34.17	54.00	-19.83	26.46	3	Vertical	146	1.80	-	32.91	5.61	30.81

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

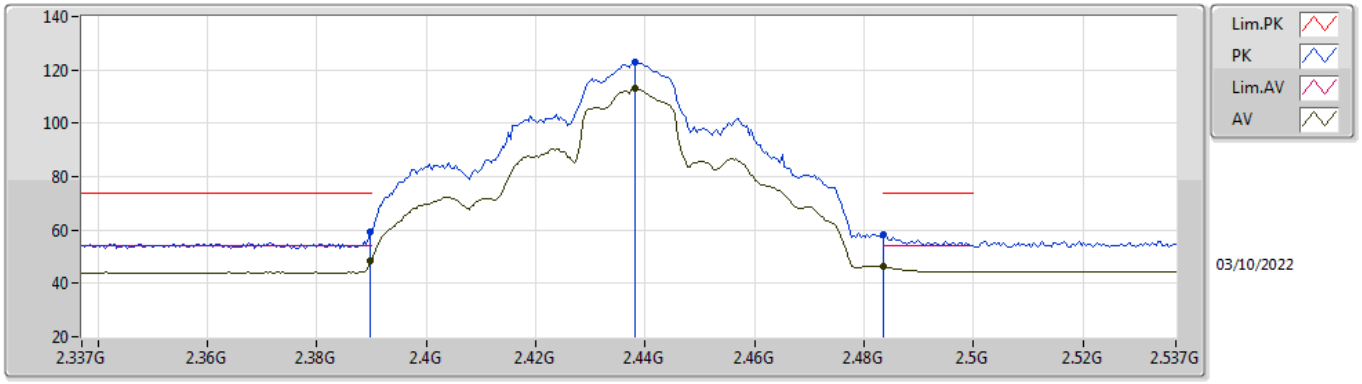


EUT Y_4TX
Setting 101
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82064G	45.99	74.00	-28.01	38.27	3	Horizontal	308	1.80	-	32.92	5.61	30.81
AV	4.82288G	33.47	54.00	-20.53	25.72	3	Horizontal	308	1.80	-	32.94	5.61	30.80

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

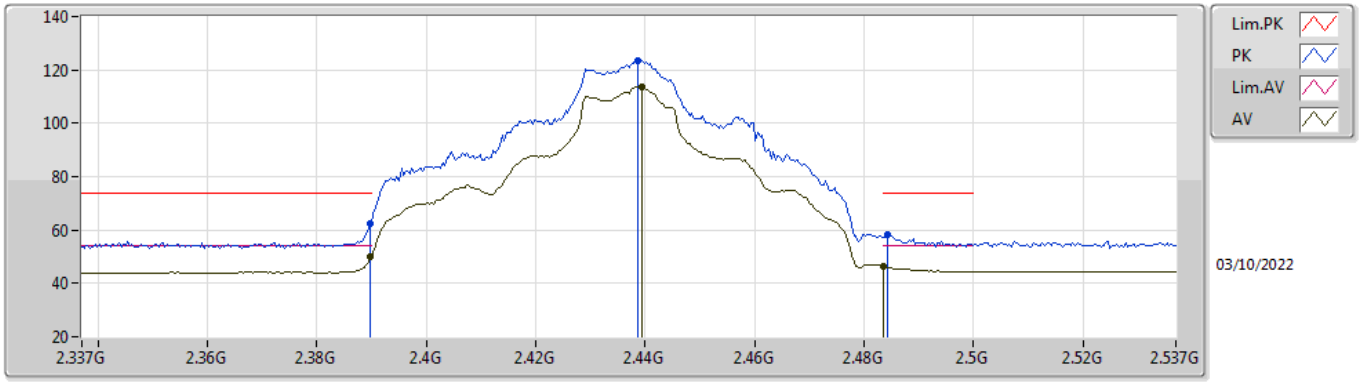


EUT Y_4TX
Setting 108
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	59.27	74.00	-14.73	27.70	3	Vertical	322	1.20	-	28.38	3.19	-
AV	2.3898G	48.23	54.00	-5.77	16.66	3	Vertical	322	1.20	-	28.38	3.19	-
PK	2.4382G	122.91	Inf	-Inf	91.29	3	Vertical	322	1.20	-	28.40	3.22	-
AV	2.4382G	112.96	Inf	-Inf	81.34	3	Vertical	322	1.20	-	28.40	3.22	-
PK	2.4835G	58.13	74.00	-15.87	26.36	3	Vertical	322	1.20	-	28.53	3.24	-
AV	2.4835G	46.35	54.00	-7.65	14.58	3	Vertical	322	1.20	-	28.53	3.24	-

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

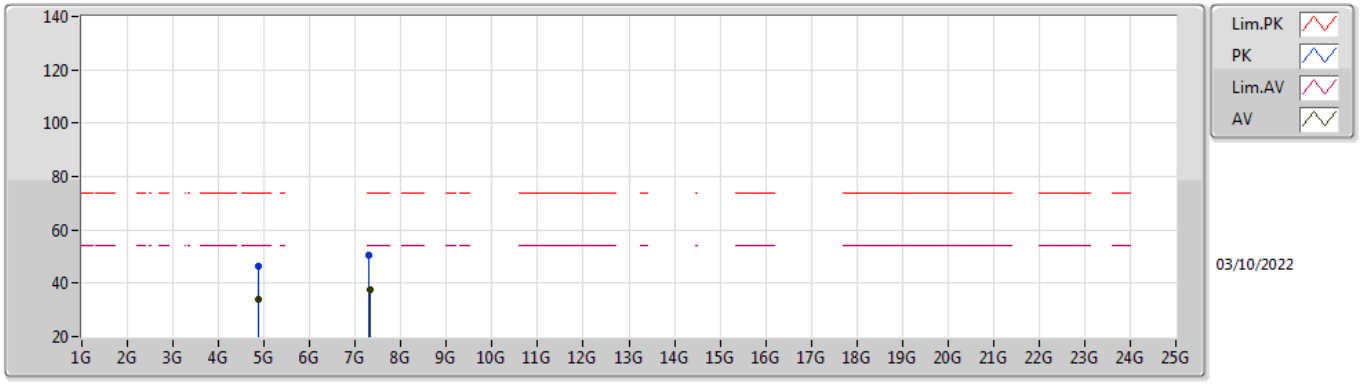


EUT Y_4TX
Setting 108
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	62.61	74.00	-11.39	31.04	3	Horizontal	334	1.80	-	28.38	3.19	-
AV	2.3898G	50.12	54.00	-3.88	18.55	3	Horizontal	334	1.80	-	28.38	3.19	-
PK	2.4386G	123.58	Inf	-Inf	91.96	3	Horizontal	334	1.80	-	28.40	3.22	-
AV	2.4394G	113.66	Inf	-Inf	82.04	3	Horizontal	334	1.80	-	28.40	3.22	-
PK	2.4842G	58.09	74.00	-15.91	26.31	3	Horizontal	334	1.80	-	28.54	3.24	-
AV	2.4835G	46.43	54.00	-7.57	14.66	3	Horizontal	334	1.80	-	28.53	3.24	-

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

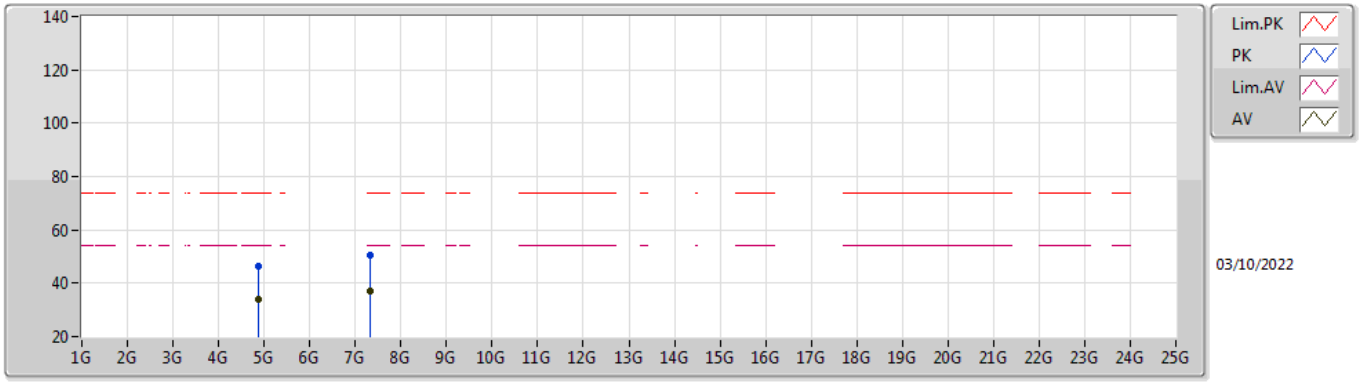


EUT Y_4TX
Setting 108
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8884G	46.42	74.00	-27.58	38.38	3	Vertical	228	1.56	-	33.18	5.64	30.78
AV	4.87416G	33.74	54.00	-20.26	25.73	3	Vertical	228	1.56	-	33.15	5.64	30.78
PK	7.30744G	50.36	74.00	-23.64	39.02	3	Vertical	292	2.81	-	36.41	6.85	31.92
AV	7.31546G	37.44	54.00	-16.56	26.09	3	Vertical	292	2.81	-	36.43	6.84	31.92

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

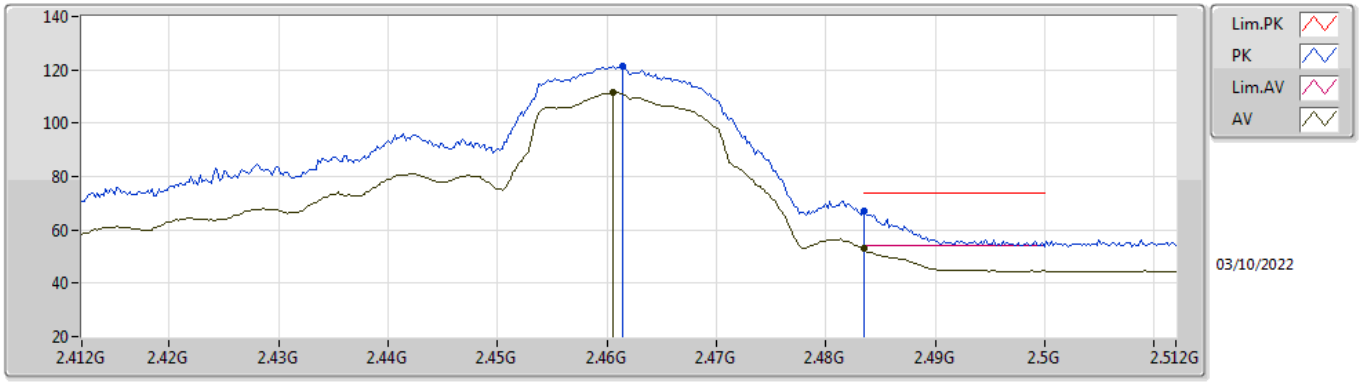


EUT Y_4TX
Setting 108
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87304G	46.58	74.00	-27.42	38.57	3	Horizontal	255	1.83	-	33.15	5.64	30.78
AV	4.87304G	33.96	54.00	-20.04	25.95	3	Horizontal	255	1.83	-	33.15	5.64	30.78
PK	7.31024G	50.32	74.00	-23.68	38.98	3	Horizontal	123	2.26	-	36.42	6.84	31.92
AV	7.31294G	37.30	54.00	-16.70	25.95	3	Horizontal	123	2.26	-	36.43	6.84	31.92

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

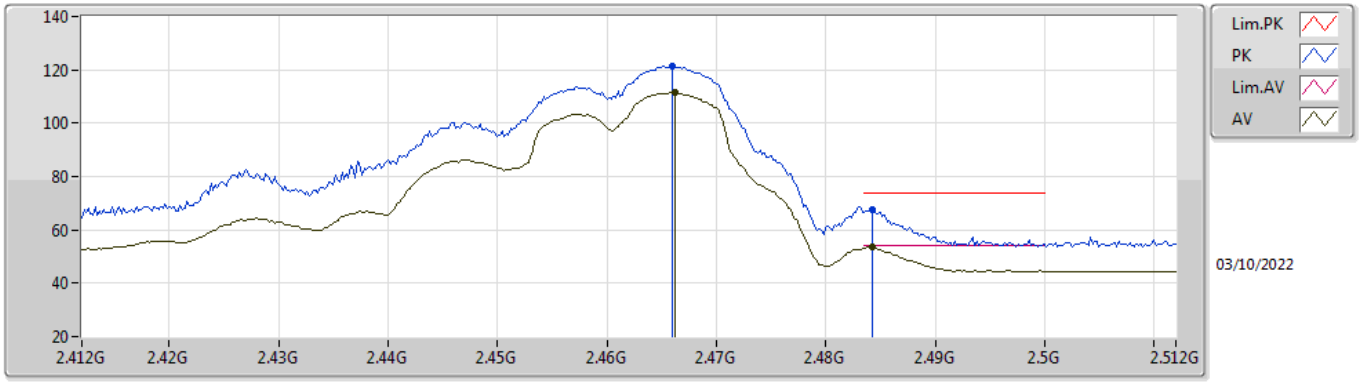


EUT Y_4TX
Setting 101
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4614G	121.33	Inf	-Inf	89.65	3	Vertical	153	1.77	-	28.45	3.23	-
AV	2.4606G	111.48	Inf	-Inf	79.81	3	Vertical	153	1.77	-	28.44	3.23	-
PK	2.4835G	66.83	74.00	-7.17	35.06	3	Vertical	153	1.77	-	28.53	3.24	-
AV	2.4835G	53.08	54.00	-0.92	21.31	3	Vertical	153	1.77	-	28.53	3.24	-

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

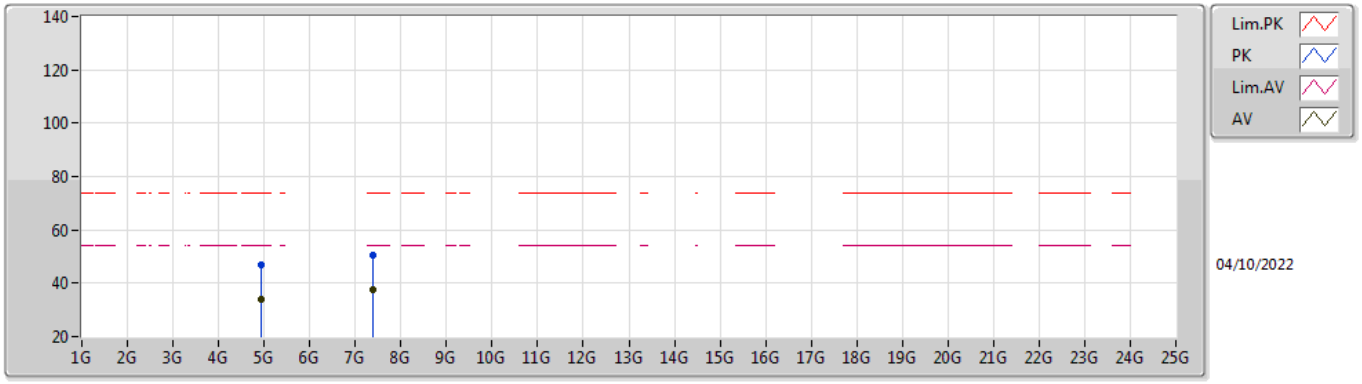


EUT Y_4TX
Setting 101
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.466G	121.20	Inf	-Inf	89.51	3	Horizontal	298	1.89	-	28.46	3.23	-
AV	2.4662G	111.62	Inf	-Inf	79.93	3	Horizontal	298	1.89	-	28.46	3.23	-
PK	2.4842G	67.47	74.00	-6.53	35.69	3	Horizontal	298	1.89	-	28.54	3.24	-
AV	2.4842G	53.54	54.00	-0.46	21.76	3	Horizontal	298	1.89	-	28.54	3.24	-

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

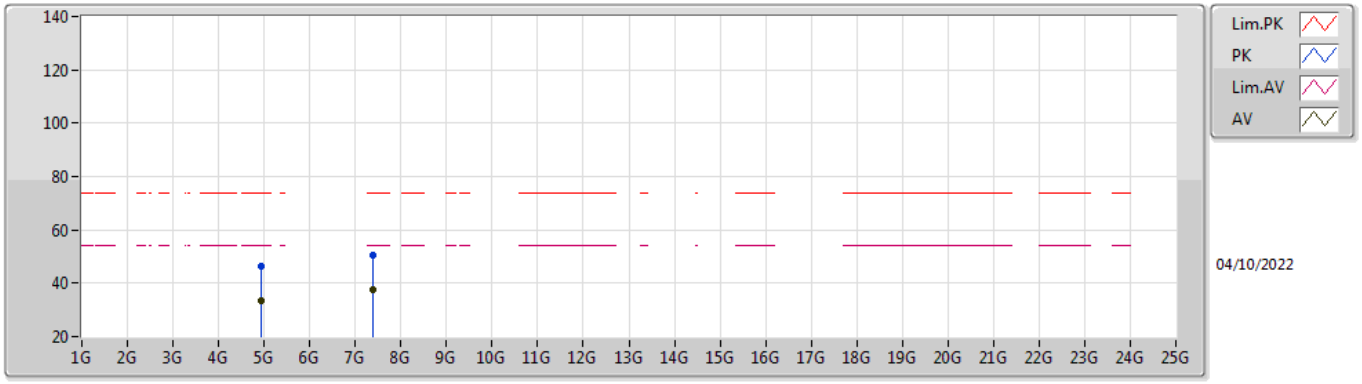


EUT Y_4TX
Setting 101
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9204G	46.96	74.00	-27.04	38.82	3	Vertical	220	1.94	-	33.24	5.66	30.76
AV	4.93096G	34.04	54.00	-19.96	25.87	3	Vertical	220	1.94	-	33.26	5.67	30.76
PK	7.38352G	50.73	74.00	-23.27	39.38	3	Vertical	198	2.74	-	36.50	6.81	31.96
AV	7.3889G	37.38	54.00	-16.62	26.04	3	Vertical	198	2.74	-	36.50	6.81	31.97

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

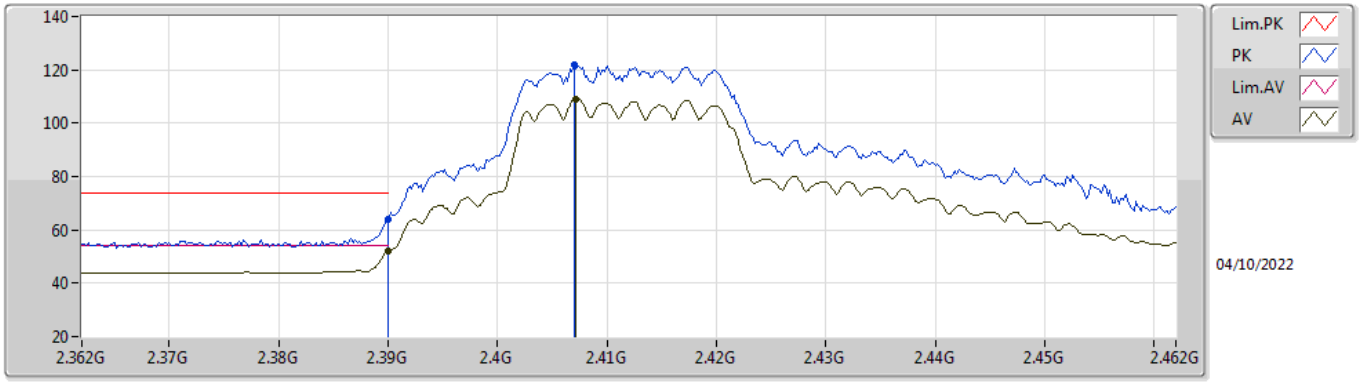


EUT Y_4TX
Setting 101
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92464G	46.58	74.00	-27.42	38.43	3	Horizontal	257	1.57	-	33.25	5.66	30.76
AV	4.92704G	33.56	54.00	-20.44	25.41	3	Horizontal	257	1.57	-	33.25	5.66	30.76
PK	7.38184G	50.76	74.00	-23.24	39.41	3	Horizontal	48	2.96	-	36.50	6.81	31.96
AV	7.3819G	37.44	54.00	-16.56	26.09	3	Horizontal	48	2.96	-	36.50	6.81	31.96

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

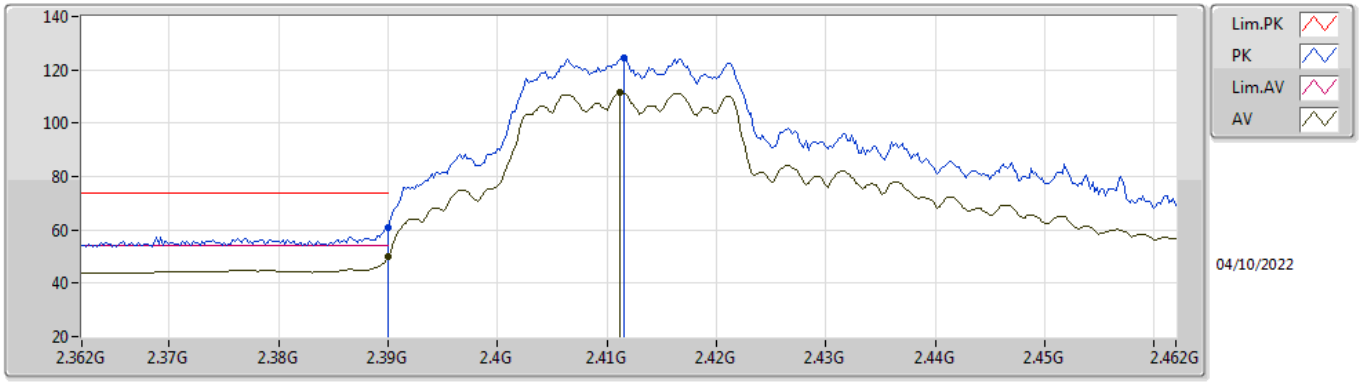


EUT Y_4TX
Setting 101
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	64.03	74.00	-9.97	32.45	3	Vertical	325	1.99	-	28.38	3.20	-
AV	2.39G	51.93	54.00	-2.07	20.35	3	Vertical	325	1.99	-	28.38	3.20	-
PK	2.407G	121.65	Inf	-Inf	90.05	3	Vertical	325	1.99	-	28.40	3.20	-
AV	2.4072G	109.16	Inf	-Inf	77.56	3	Vertical	325	1.99	-	28.40	3.20	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

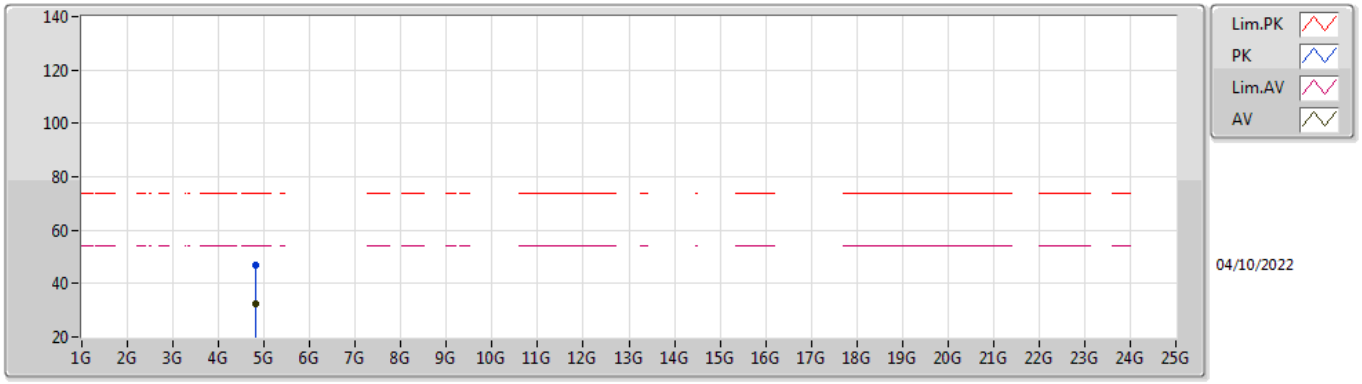


EUT Y_4TX
Setting 101
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	60.77	74.00	-13.23	29.19	3	Horizontal	157	2.01	-	28.38	3.20	-
AV	2.39G	49.77	54.00	-4.23	18.19	3	Horizontal	157	2.01	-	28.38	3.20	-
PK	2.4116G	124.36	Inf	-Inf	92.75	3	Horizontal	157	2.01	-	28.40	3.21	-
AV	2.4112G	111.49	Inf	-Inf	79.88	3	Horizontal	157	2.01	-	28.40	3.21	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

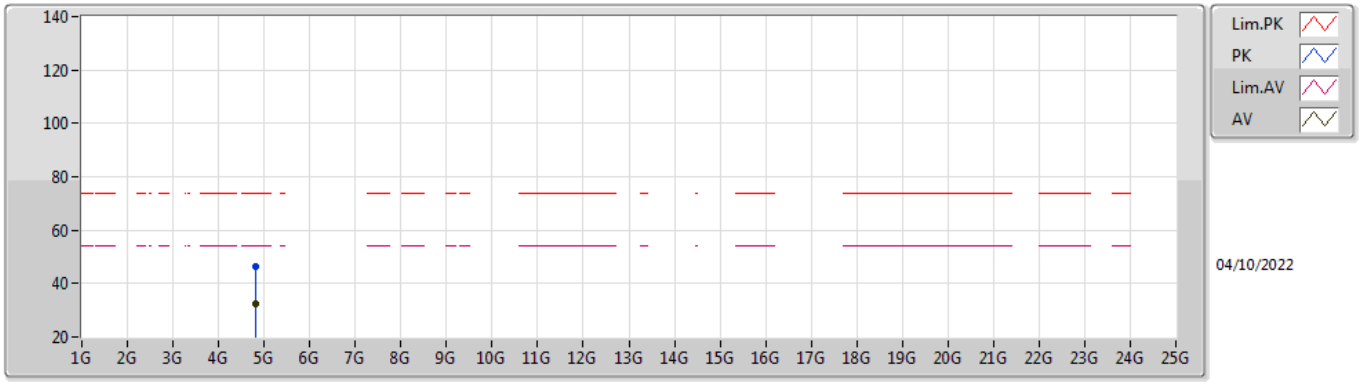


EUT Y_4TX
Setting 101
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8272G	47.04	74.00	-26.96	39.27	3	Vertical	280	2.94	-	32.96	5.61	30.80
AV	4.8243G	32.35	54.00	-21.65	24.59	3	Vertical	280	2.94	-	32.95	5.61	30.80

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

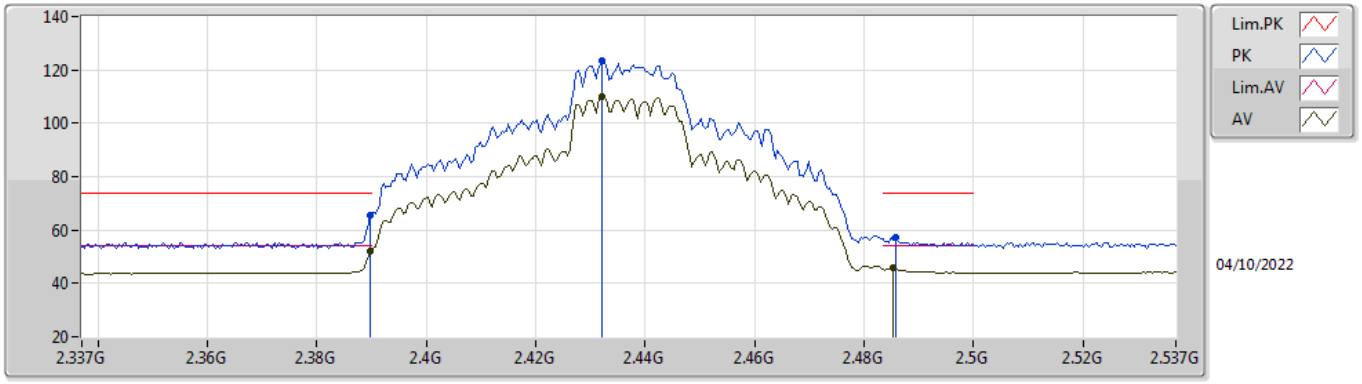


EUT Y_4TX
Setting 101
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8225G	46.21	74.00	-27.79	38.46	3	Horizontal	19	1.86	-	32.94	5.61	30.80
AV	4.8236G	32.36	54.00	-21.64	24.61	3	Horizontal	19	1.86	-	32.94	5.61	30.80

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

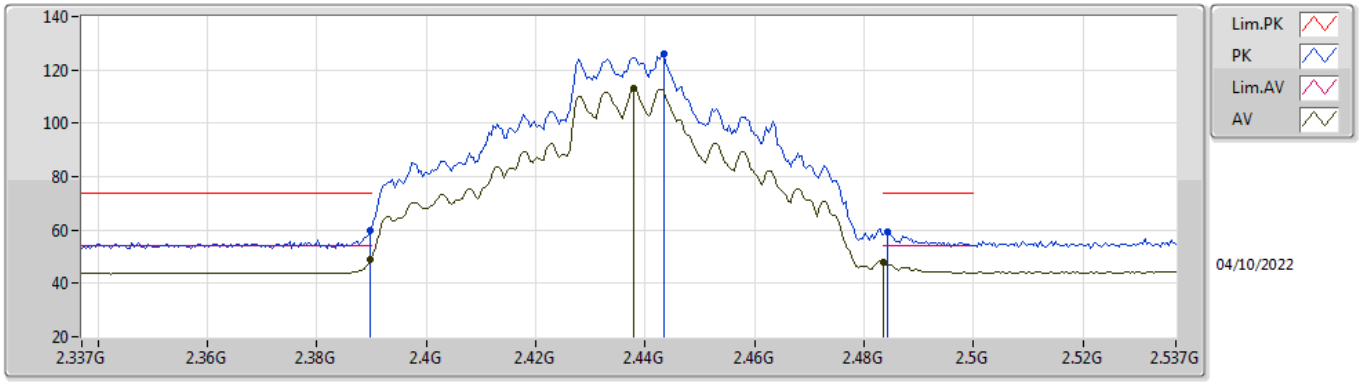


EUT Y_4TX
Setting 108
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	65.45	74.00	-8.55	33.88	3	Vertical	321	1.80	-	28.38	3.19	-
AV	2.3898G	52.15	54.00	-1.85	20.58	3	Vertical	321	1.80	-	28.38	3.19	-
PK	2.4322G	123.30	Inf	-Inf	91.68	3	Vertical	321	1.80	-	28.40	3.22	-
AV	2.4322G	110.25	Inf	-Inf	78.63	3	Vertical	321	1.80	-	28.40	3.22	-
PK	2.4858G	57.47	74.00	-16.53	25.69	3	Vertical	321	1.80	-	28.54	3.24	-
AV	2.4854G	45.70	54.00	-8.30	13.92	3	Vertical	321	1.80	-	28.54	3.24	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

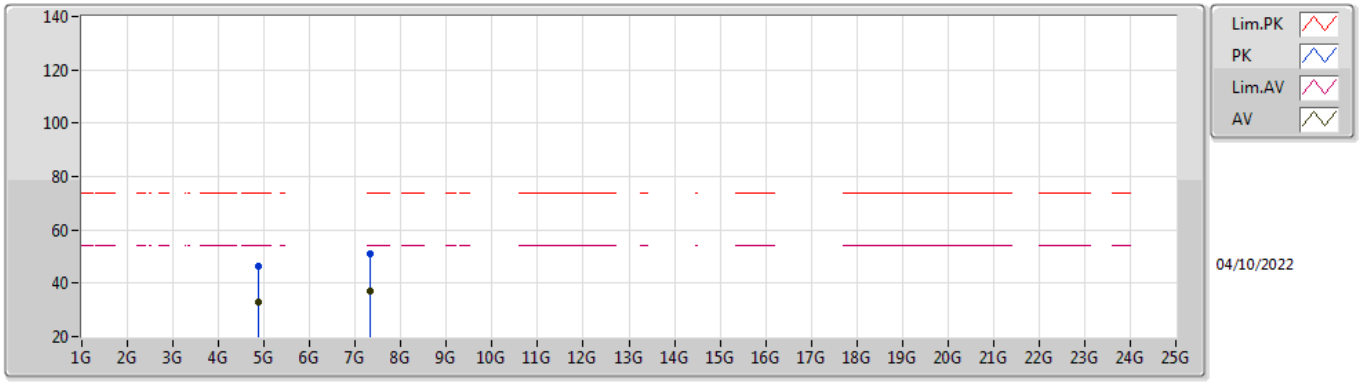


EUT Y_4TX
Setting 108
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	59.70	74.00	-14.30	28.13	3	Horizontal	328	2.28	-	28.38	3.19	-
AV	2.3898G	49.11	54.00	-4.89	17.54	3	Horizontal	328	2.28	-	28.38	3.19	-
PK	2.4434G	125.90	Inf	-Inf	94.28	3	Horizontal	328	2.28	-	28.40	3.22	-
AV	2.4378G	112.92	Inf	-Inf	81.30	3	Horizontal	328	2.28	-	28.40	3.22	-
PK	2.4842G	59.12	74.00	-14.88	27.34	3	Horizontal	328	2.28	-	28.54	3.24	-
AV	2.4835G	47.72	54.00	-6.28	15.95	3	Horizontal	328	2.28	-	28.53	3.24	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

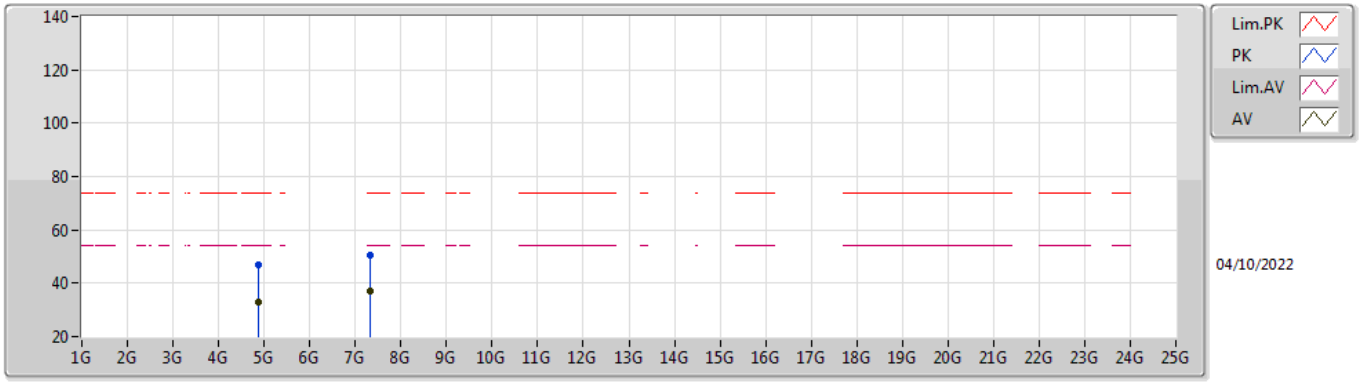


EUT Y_4TX
Setting 108
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87G	46.41	74.00	-27.59	38.42	3	Vertical	312	2.40	-	33.14	5.63	30.78
AV	4.87492G	33.01	54.00	-20.99	25.00	3	Vertical	312	2.40	-	33.15	5.64	30.78
PK	7.31104G	51.03	74.00	-22.97	39.69	3	Vertical	232	2.67	-	36.42	6.84	31.92
AV	7.31512G	36.97	54.00	-17.03	25.62	3	Vertical	232	2.67	-	36.43	6.84	31.92

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

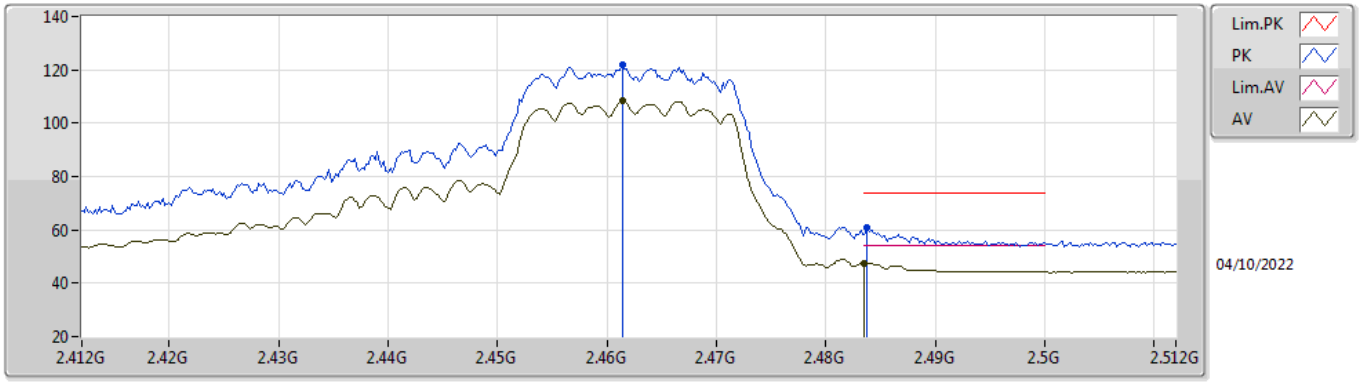


EUT Y_4TX
Setting 108
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8749G	46.74	74.00	-27.26	38.73	3	Horizontal	98	2.19	-	33.15	5.64	30.78
AV	4.8751G	32.96	54.00	-21.04	24.95	3	Horizontal	98	2.19	-	33.15	5.64	30.78
PK	7.31594G	50.56	74.00	-23.44	39.21	3	Horizontal	32	1.84	-	36.43	6.84	31.92
AV	7.31266G	36.86	54.00	-17.14	25.51	3	Horizontal	32	1.84	-	36.43	6.84	31.92

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

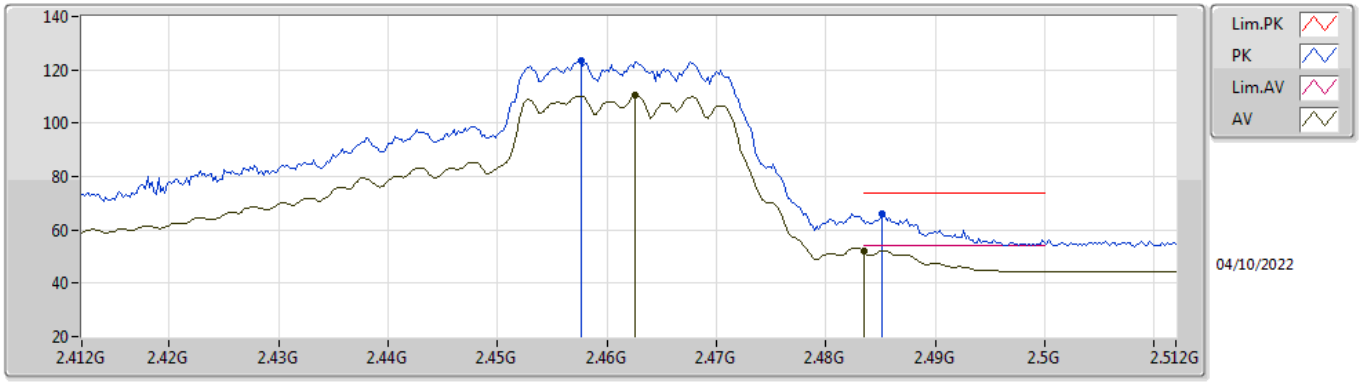


EUT Y_4TX
Setting 99
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4614G	121.70	Inf	-Inf	90.02	3	Vertical	166	1.76	-	28.45	3.23	-
AV	2.4614G	108.40	Inf	-Inf	76.72	3	Vertical	166	1.76	-	28.45	3.23	-
PK	2.4838G	60.70	74.00	-13.30	28.92	3	Vertical	166	1.76	-	28.54	3.24	-
AV	2.4835G	47.41	54.00	-6.59	15.64	3	Vertical	166	1.76	-	28.53	3.24	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

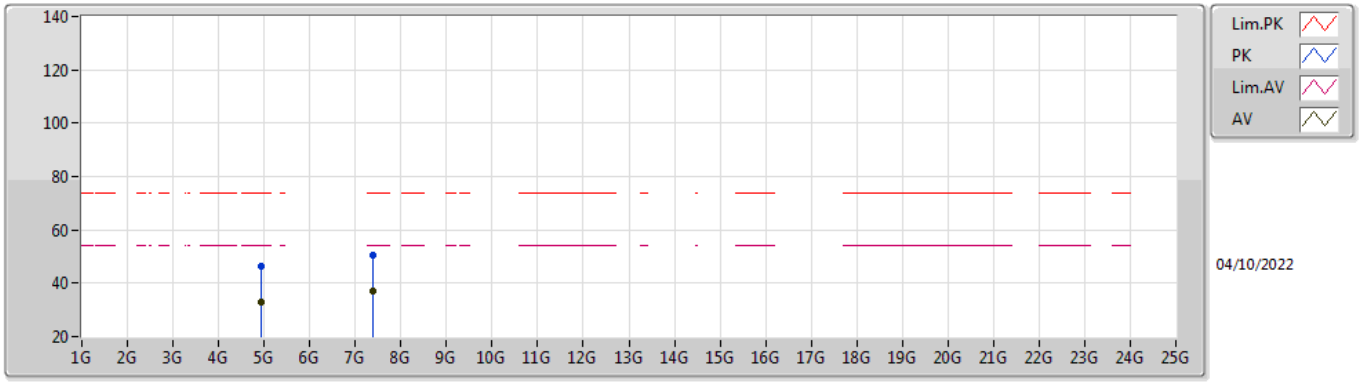


EUT Y_4TX
Setting 99
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4576G	123.70	Inf	-Inf	92.04	3	Horizontal	168	1.91	-	28.43	3.23	-
AV	2.4626G	110.40	Inf	-Inf	78.72	3	Horizontal	168	1.91	-	28.45	3.23	-
PK	2.4852G	65.82	74.00	-8.18	34.04	3	Horizontal	168	1.91	-	28.54	3.24	-
AV	2.4835G	52.28	54.00	-1.72	20.51	3	Horizontal	168	1.91	-	28.53	3.24	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

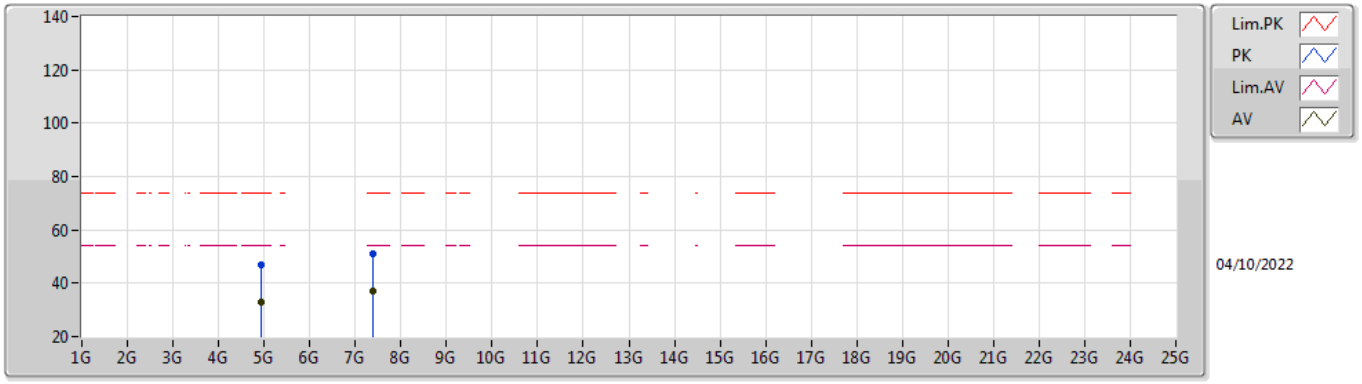


EUT Y_4TX
Setting 99
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92706G	46.50	74.00	-27.50	38.35	3	Vertical	227	1.85	-	33.25	5.66	30.76
AV	4.9265G	32.74	54.00	-21.26	24.59	3	Vertical	227	1.85	-	33.25	5.66	30.76
PK	7.38464G	50.54	74.00	-23.46	39.19	3	Vertical	13	1.16	-	36.50	6.81	31.96
AV	7.38906G	37.04	54.00	-16.96	25.70	3	Vertical	13	1.16	-	36.50	6.81	31.97

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

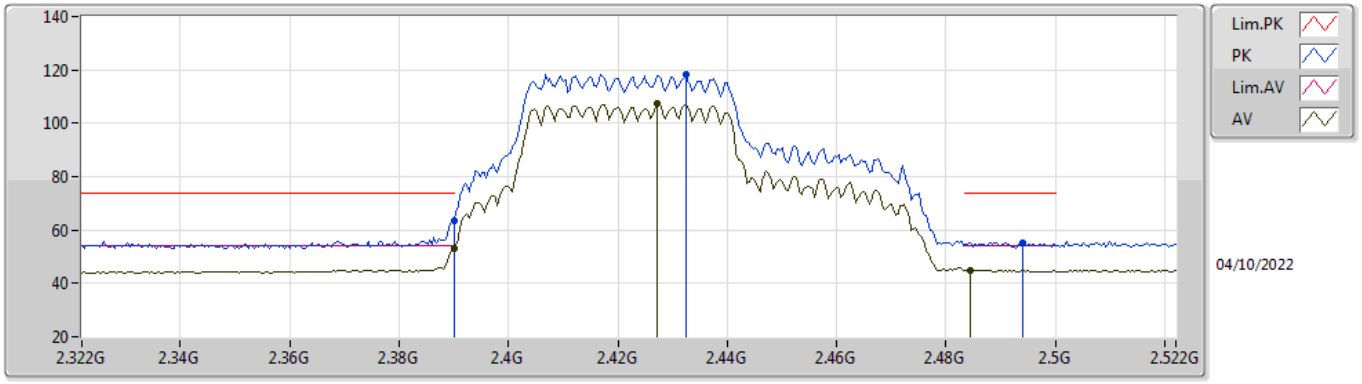


EUT Y_4TX
Setting 99
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92664G	47.15	74.00	-26.85	39.00	3	Horizontal	92	2.32	-	33.25	5.66	30.76
AV	4.92496G	32.71	54.00	-21.29	24.56	3	Horizontal	92	2.32	-	33.25	5.66	30.76
PK	7.38302G	51.17	74.00	-22.83	39.82	3	Horizontal	232	1.30	-	36.50	6.81	31.96
AV	7.3844G	37.16	54.00	-16.84	25.81	3	Horizontal	232	1.30	-	36.50	6.81	31.96

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

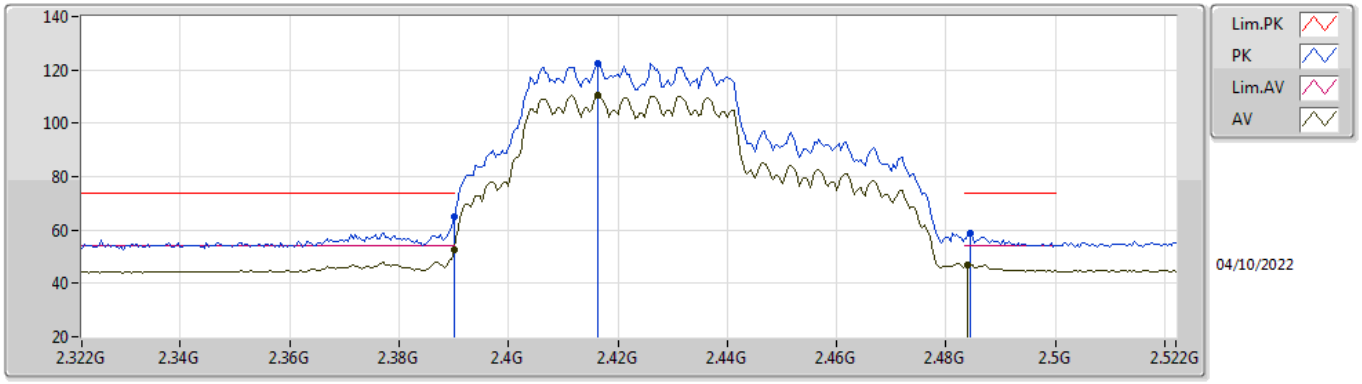


EUT Y_4TX
Setting 99
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	63.49	74.00	-10.51	31.91	3	Vertical	320	1.80	-	28.38	3.20	-
AV	2.39G	53.15	54.00	-0.85	21.57	3	Vertical	320	1.80	-	28.38	3.20	-
PK	2.4324G	118.49	Inf	-Inf	86.87	3	Vertical	320	1.80	-	28.40	3.22	-
AV	2.4272G	107.55	Inf	-Inf	75.94	3	Vertical	320	1.80	-	28.40	3.21	-
PK	2.494G	55.36	74.00	-18.64	23.53	3	Vertical	320	1.80	-	28.58	3.25	-
AV	2.4844G	44.99	54.00	-9.01	13.21	3	Vertical	320	1.80	-	28.54	3.24	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

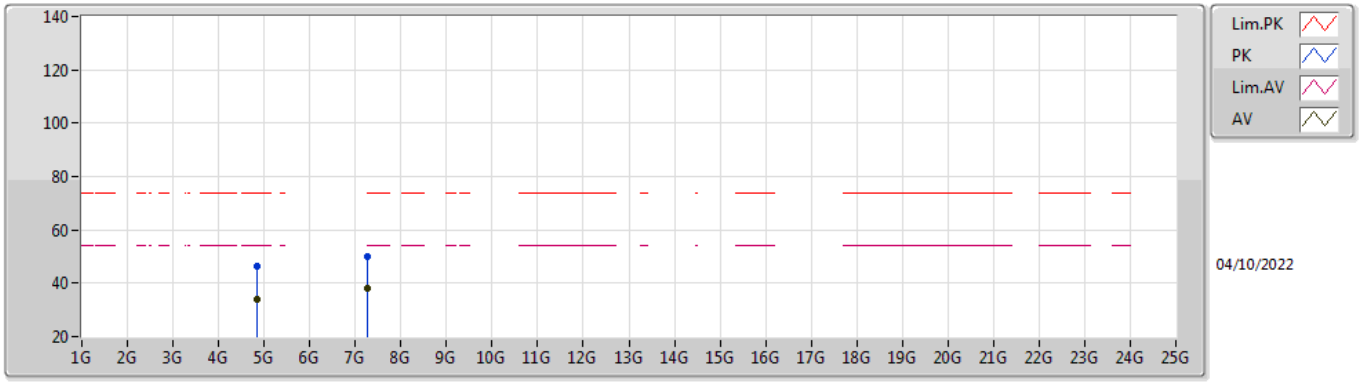


EUT Y_4TX
Setting 99
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	65.08	74.00	-8.92	33.50	3	Horizontal	156	1.98	-	28.38	3.20	-
AV	2.39G	52.45	54.00	-1.55	20.87	3	Horizontal	156	1.98	-	28.38	3.20	-
PK	2.4164G	122.30	Inf	-Inf	90.69	3	Horizontal	156	1.98	-	28.40	3.21	-
AV	2.4164G	110.46	Inf	-Inf	78.85	3	Horizontal	156	1.98	-	28.40	3.21	-
PK	2.4844G	58.93	74.00	-15.07	27.15	3	Horizontal	156	1.98	-	28.54	3.24	-
AV	2.484G	46.94	54.00	-7.06	15.16	3	Horizontal	156	1.98	-	28.54	3.24	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

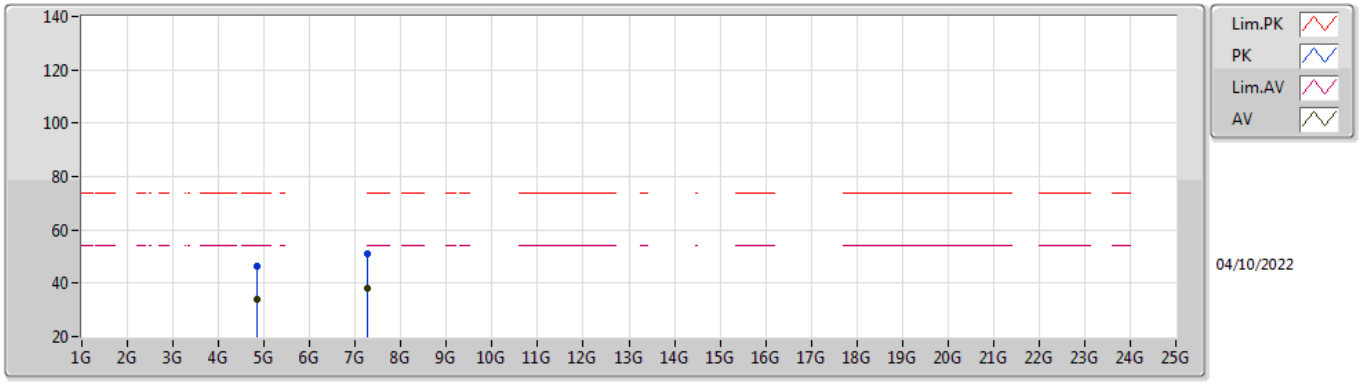


EUT Y_4TX
Setting 99
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.84298G	46.61	74.00	-27.39	38.73	3	Vertical	137	2.08	-	33.06	5.62	30.80
AV	4.8459G	34.07	54.00	-19.93	26.16	3	Vertical	137	2.08	-	33.08	5.62	30.79
PK	7.26324G	49.87	74.00	-24.13	38.64	3	Vertical	351	1.49	-	36.25	6.87	31.89
AV	7.26752G	37.89	54.00	-16.11	26.65	3	Vertical	351	1.49	-	36.27	6.87	31.90

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

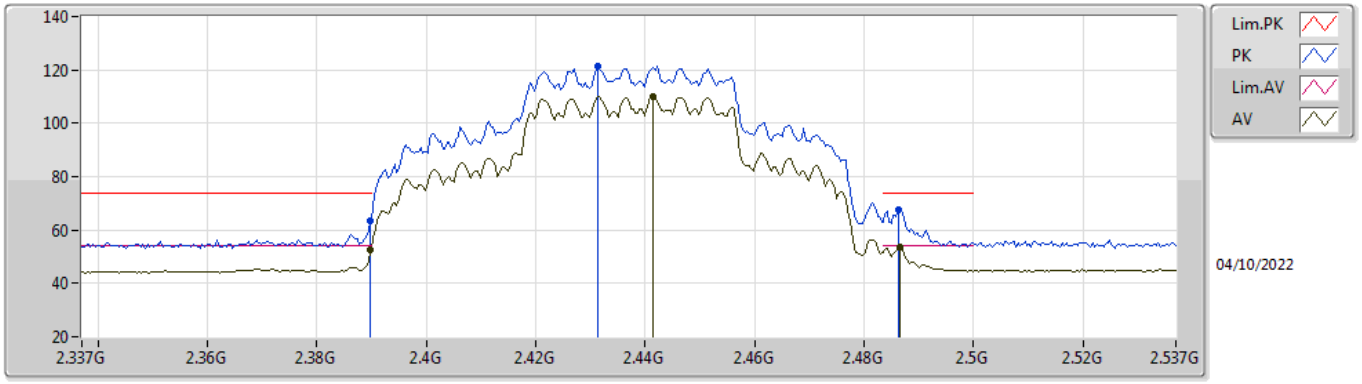


EUT Y_4TX
Setting 99
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8465G	46.53	74.00	-27.47	38.62	3	Horizontal	226	2.37	-	33.08	5.62	30.79
AV	4.84878G	34.09	54.00	-19.91	26.17	3	Horizontal	226	2.37	-	33.09	5.62	30.79
PK	7.26184G	51.17	74.00	-22.83	39.94	3	Horizontal	342	2.00	-	36.25	6.87	31.89
AV	7.26434G	38.00	54.00	-16.00	26.76	3	Horizontal	342	2.00	-	36.26	6.87	31.89

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

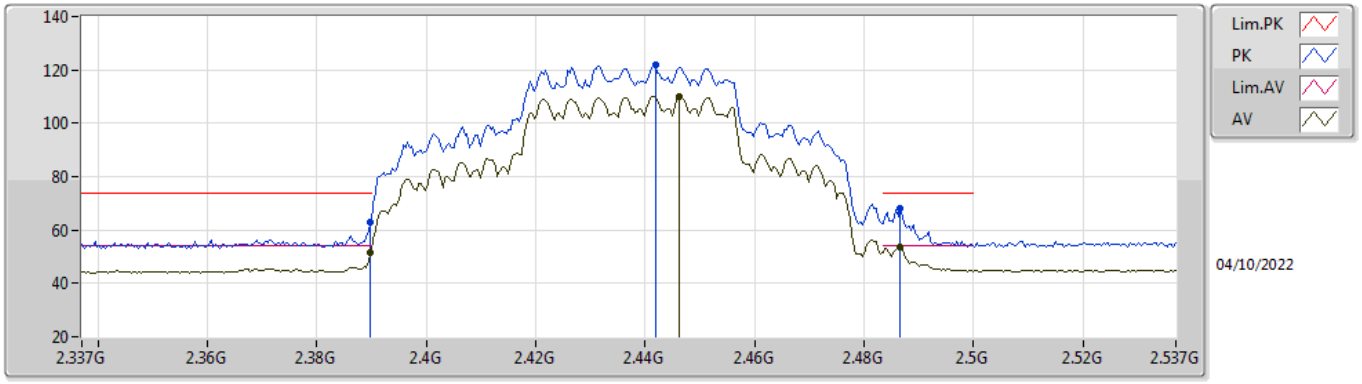


EUT Y_4TX
Setting 98
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	63.69	74.00	-10.31	32.12	3	Vertical	162	2.29	-	28.38	3.19	-
AV	2.3898G	52.56	54.00	-1.44	20.99	3	Vertical	162	2.29	-	28.38	3.19	-
PK	2.4314G	121.62	Inf	-Inf	90.00	3	Vertical	162	2.29	-	28.40	3.22	-
AV	2.4414G	110.04	Inf	-Inf	78.42	3	Vertical	162	2.29	-	28.40	3.22	-
PK	2.4862G	67.78	74.00	-6.22	36.00	3	Vertical	162	2.29	-	28.54	3.24	-
AV	2.4866G	53.55	54.00	-0.45	21.76	3	Vertical	162	2.29	-	28.55	3.24	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

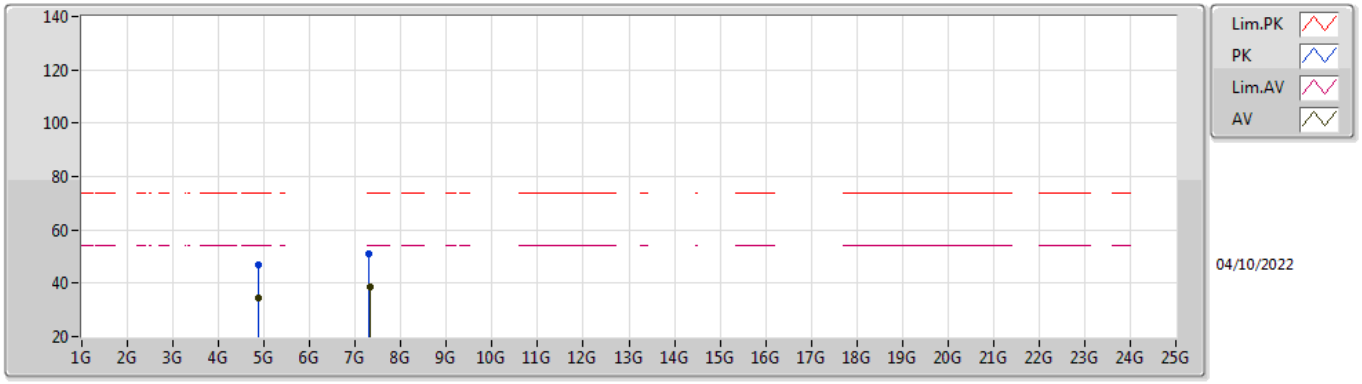


EUT Y_4TX
Setting 98
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	62.70	74.00	-11.30	31.13	3	Horizontal	162	2.29	-	28.38	3.19	-
AV	2.3898G	51.56	54.00	-2.44	19.99	3	Horizontal	162	2.29	-	28.38	3.19	-
PK	2.4418G	121.85	Inf	-Inf	90.23	3	Horizontal	162	2.29	-	28.40	3.22	-
AV	2.4462G	110.05	Inf	-Inf	78.43	3	Horizontal	162	2.29	-	28.40	3.22	-
PK	2.4866G	68.22	74.00	-5.78	36.43	3	Horizontal	162	2.29	-	28.55	3.24	-
AV	2.4866G	53.85	54.00	-0.15	22.06	3	Horizontal	162	2.29	-	28.55	3.24	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

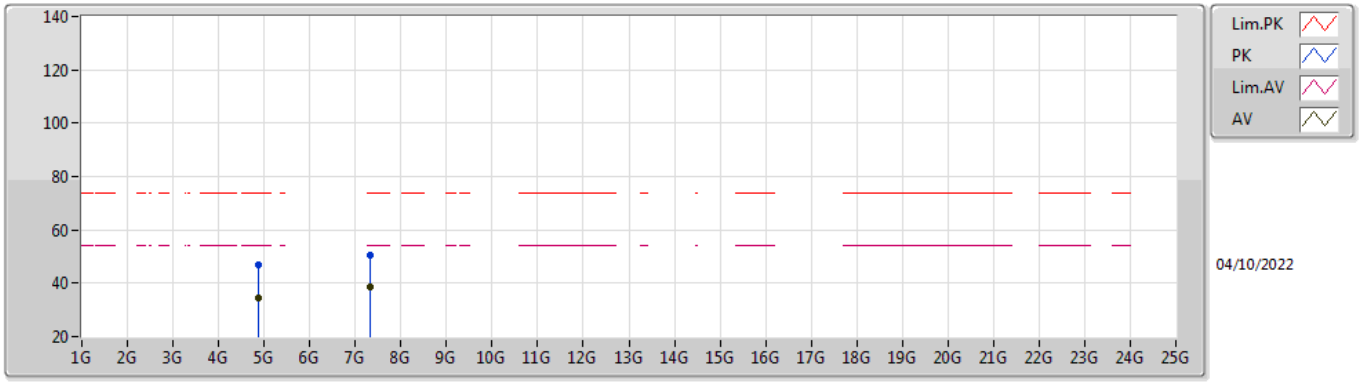


EUT Y_4TX
Setting 98
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87614G	46.90	74.00	-27.10	38.89	3	Vertical	347	1.27	-	33.15	5.64	30.78
AV	4.87408G	34.23	54.00	-19.77	26.22	3	Vertical	347	1.27	-	33.15	5.64	30.78
PK	7.30636G	50.84	74.00	-23.16	39.50	3	Vertical	359	2.35	-	36.41	6.85	31.92
AV	7.31038G	38.42	54.00	-15.58	27.08	3	Vertical	359	2.35	-	36.42	6.84	31.92

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

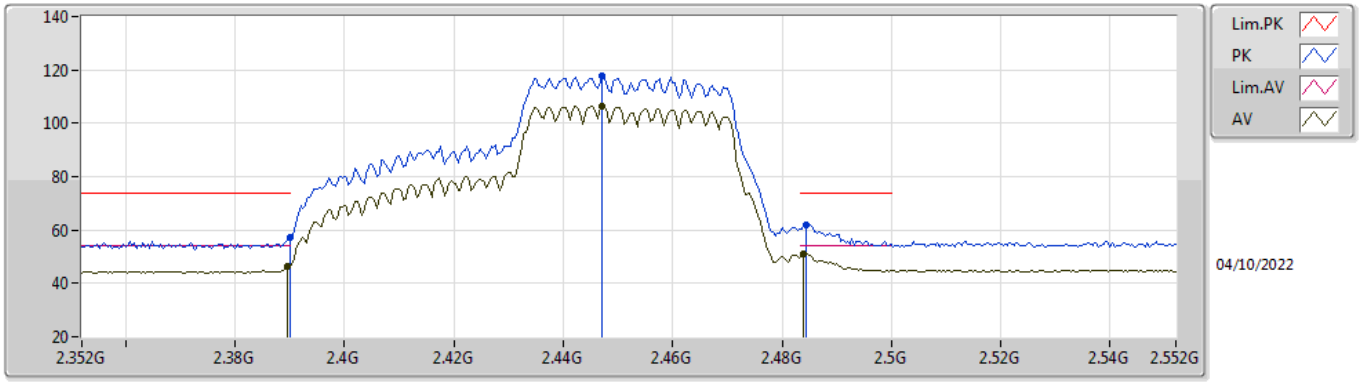


EUT Y_4TX
Setting 98
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8717G	47.02	74.00	-26.98	39.02	3	Horizontal	111	2.58	-	33.14	5.64	30.78
AV	4.8725G	34.48	54.00	-19.52	26.47	3	Horizontal	111	2.58	-	33.15	5.64	30.78
PK	7.31562G	50.72	74.00	-23.28	39.37	3	Horizontal	323	1.68	-	36.43	6.84	31.92
AV	7.31546G	38.46	54.00	-15.54	27.11	3	Horizontal	323	1.68	-	36.43	6.84	31.92

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX

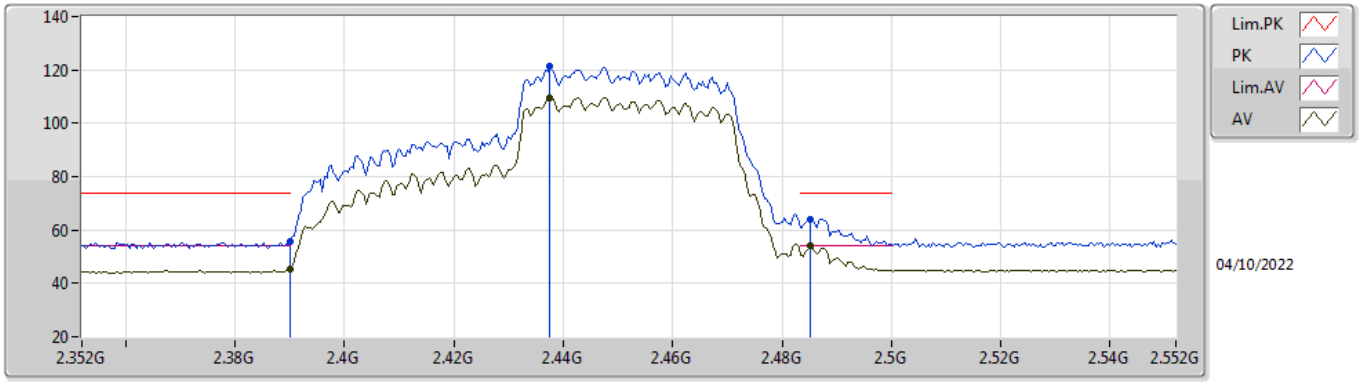


EUT Y_4TX
Setting 99
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	57.05	74.00	-16.95	25.47	3	Vertical	323	1.73	-	28.38	3.20	-
AV	2.3896G	46.23	54.00	-7.77	14.66	3	Vertical	323	1.73	-	28.38	3.19	-
PK	2.4472G	117.81	Inf	-Inf	86.19	3	Vertical	323	1.73	-	28.40	3.22	-
AV	2.4472G	106.38	Inf	-Inf	74.76	3	Vertical	323	1.73	-	28.40	3.22	-
PK	2.4844G	61.99	74.00	-12.01	30.21	3	Vertical	323	1.73	-	28.54	3.24	-
AV	2.484G	50.82	54.00	-3.18	19.04	3	Vertical	323	1.73	-	28.54	3.24	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX

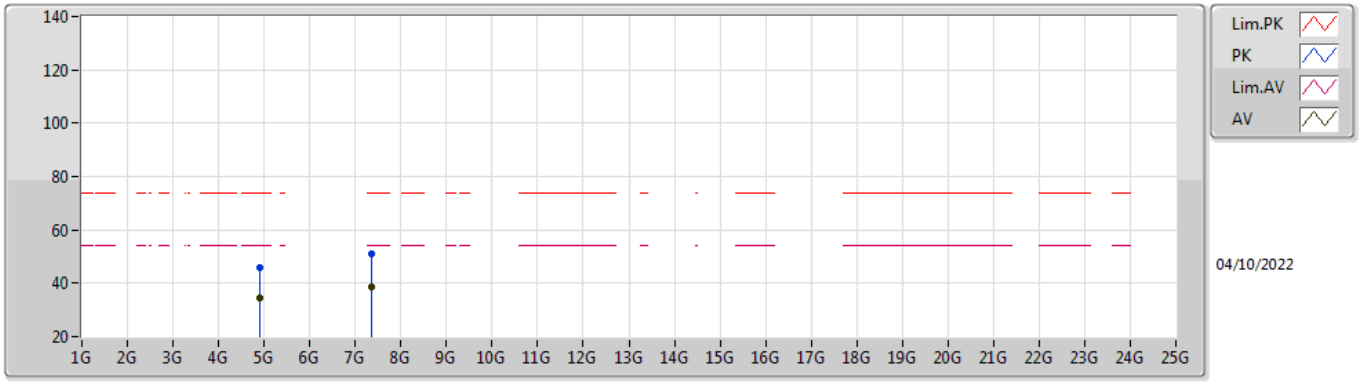


EUT Y_4TX
Setting 99
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	55.93	74.00	-18.07	24.35	3	Horizontal	181	2.32	-	28.38	3.20	-
AV	2.39G	45.12	54.00	-8.88	13.54	3	Horizontal	181	2.32	-	28.38	3.20	-
PK	2.4376G	121.41	Inf	-Inf	89.79	3	Horizontal	181	2.32	-	28.40	3.22	-
AV	2.4376G	109.63	Inf	-Inf	78.01	3	Horizontal	181	2.32	-	28.40	3.22	-
PK	2.4852G	64.09	74.00	-9.91	32.31	3	Horizontal	181	2.32	-	28.54	3.24	-
AV	2.4852G	53.93	54.00	-0.07	22.15	3	Horizontal	181	2.32	-	28.54	3.24	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX

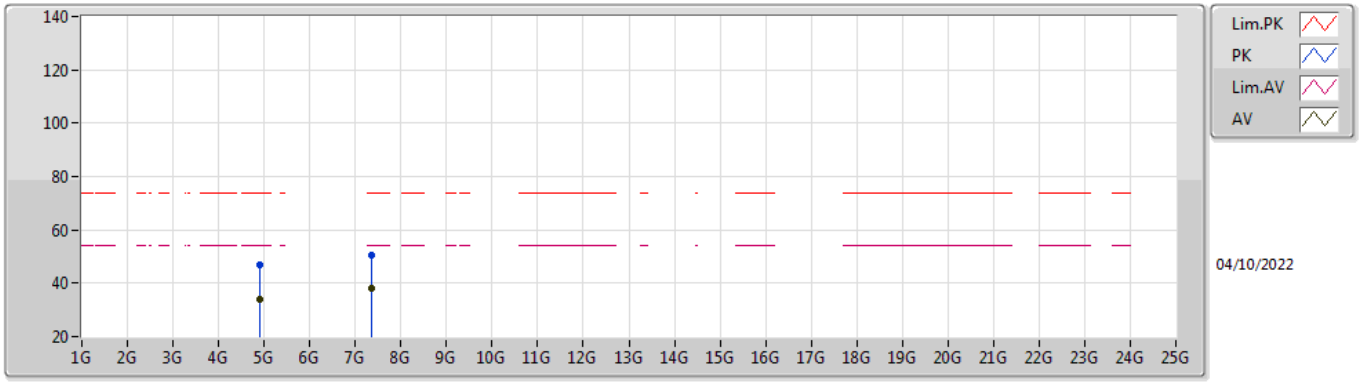


EUT Y_4TX
Setting 99
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.90348G	45.98	74.00	-28.02	37.89	3	Vertical	125	2.79	-	33.21	5.65	30.77
AV	4.9037G	34.24	54.00	-19.76	26.15	3	Vertical	125	2.79	-	33.21	5.65	30.77
PK	7.36088G	51.15	74.00	-22.85	39.78	3	Vertical	115	1.55	-	36.50	6.82	31.95
AV	7.36022G	38.40	54.00	-15.60	27.03	3	Vertical	115	1.55	-	36.50	6.82	31.95

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX



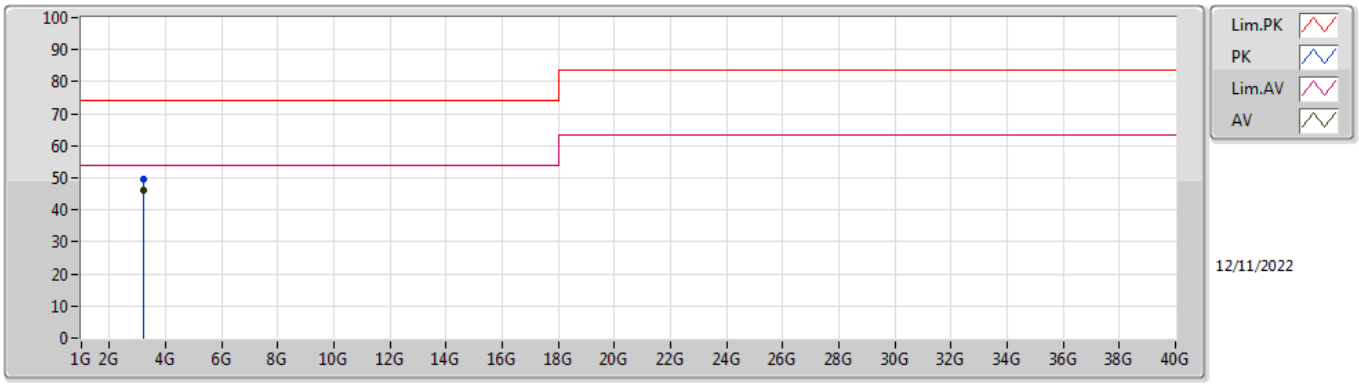
EUT Y_4TX
Setting 99
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9029G	46.68	74.00	-27.32	38.59	3	Horizontal	53	1.48	-	33.21	5.65	30.77
AV	4.90642G	34.00	54.00	-20.00	25.91	3	Horizontal	53	1.48	-	33.21	5.65	30.77
PK	7.35426G	50.61	74.00	-23.39	39.24	3	Horizontal	68	2.69	-	36.50	6.82	31.95
AV	7.3545G	38.36	54.00	-15.64	26.99	3	Horizontal	68	2.69	-	36.50	6.82	31.95

Summary

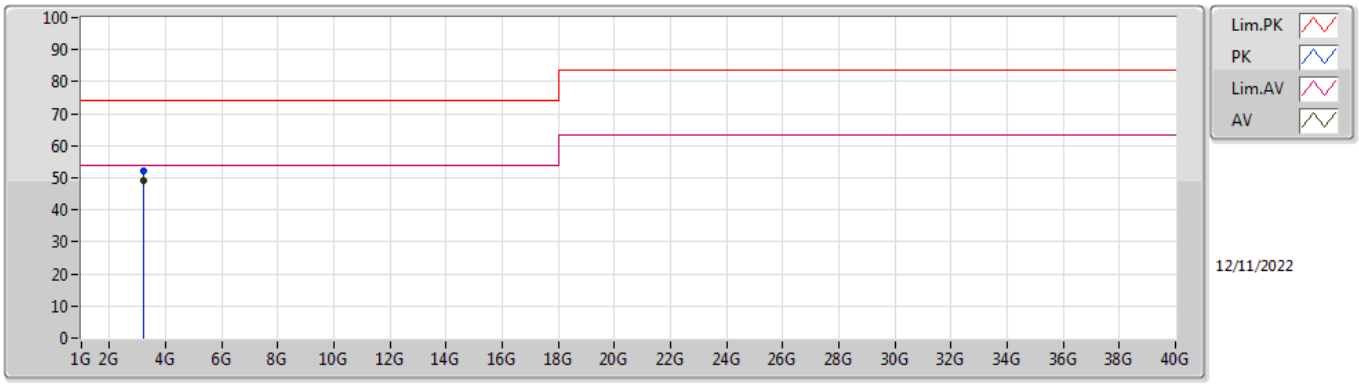
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	3.19994G	49.30	54.00	-4.70	Horizontal

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	3.212G	49.57	74.00	-24.43	-0.21	3	Vertical	195	1.75	-	49.94	29.90	5.80	35.91
AV	3.19991G	46.13	54.00	-7.87	-0.21	3	Vertical	195	1.75	"Worst"	46.21	29.90	5.80	35.91

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	3.203G	52.27	74.00	-21.73	-0.21	3	Horizontal	33	1.27	-	52.33	29.89	5.80	35.91
AV	3.19994G	49.30	54.00	-4.70	-0.21	3	Horizontal	33	1.27	"Worst"	49.61	29.90	5.80	35.91