

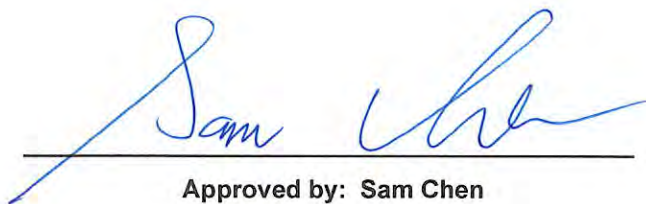


RADIO TEST REPORT

FCC ID : I88EX3510-B1
Equipment : AX5700 WiFi6 Gigabit Ethernet Gateway
Brand Name : ZYXEL, Google Fiber
Model Name : EX3510-B1, C3510XZ, GRAX110Z
Applicant : Zyxel Communications Corporation
No.2 Industry East RD. IX, Hsinchu Science Park,
Hsinchu 30075, Taiwan
Manufacturer : Zyxel Communications Corporation
No.2 Industry East RD. IX, Hsinchu Science Park,
Hsinchu 30075, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on May 23, 2022, and testing was started from Jun. 04, 2022 and completed on Jun. 15, 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

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Testing Location Information	10
1.3 Measurement Uncertainty	10
2 Test Configuration of EUT.....	11
2.1 Test Channel Mode	11
2.2 The Worst Case Measurement Configuration	12
2.3 EUT Operation during Test	13
2.4 Accessories	13
2.5 Support Equipment.....	13
2.6 Test Setup Diagram	14
3 Transmitter Test Result	17
3.1 AC Power-line Conducted Emissions	17
3.2 DTS Bandwidth.....	19
3.3 Maximum Conducted Output Power	20
3.4 Power Spectral Density	23
3.5 Emissions in Non-restricted Frequency Bands	25
3.6 Emissions in Restricted Frequency Bands.....	26
4 Test Equipment and Calibration Data	30
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of DTS Bandwidth	
Appendix C. Test Results of Maximum Conducted Output Power	
Appendix D. Test Results of Power Spectral Density	
Appendix E. Test Results of Emissions in Non-restricted Frequency Bands	
Appendix F. Test Results of Emissions in Restricted Frequency Bands	
Appendix G. Test Photos	
Photographs of EUT v01	



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



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: Wendy Pan



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	3TX
2.4-2.4835GHz	802.11g	20	3TX
2.4-2.4835GHz	802.11n HT20	20	3TX
2.4-2.4835GHz	802.11n HT20-BF	20	3TX
2.4-2.4835GHz	VHT20	20	3TX
2.4-2.4835GHz	VHT20-BF	20	3TX
2.4-2.4835GHz	802.11ax HEW20	20	3TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	3TX
2.4-2.4835GHz	802.11n HT40	40	3TX
2.4-2.4835GHz	802.11n HT40-BF	40	3TX
2.4-2.4835GHz	VHT40	40	3TX
2.4-2.4835GHz	VHT40-BF	40	3TX
2.4-2.4835GHz	802.11ax HEW40	40	3TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	3TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant. No. (Define by manufacturer)	Antenna Position	RF Port	Brand Name	Model Name	Ant. Type	Connector	Modes of Operation
2.4G-Ant.0	2G Ant1	1	WHAYU	65-034-000142B	PCB	none (like solder)	2.4GHz
2.4G-Ant.1	2G Ant2	2	WHAYU	65-034-000192B	PCB	none (like solder)	2.4GHz
2.4G-Ant.2	2G Ant3	3	WHAYU	65-034-000141B	PCB	none (like solder)	2.4GHz
5G-Ant.0	5G Ant1	1	WHAYU	65-034-000147B	PCB	I-PEX	5GHz UNII 1~3
5G-Ant.1	5G Ant2	2	WHAYU	65-034-000195B	PCB	I-PEX	5GHz UNII 1~3
5G-Ant.2	5G Ant3	3	WHAYU	65-034-000194B	PCB	I-PEX	5GHz UNII 1~3
5G-Ant.3	5G Ant4	4	WHAYU	65-034-000193B	PCB	I-PEX	5GHz UNII 1~3

Antenna Position	RF Port	Gain (dBi)						
		WLAN 2.4GHz			WLAN 5GHz			
		2400MHz	2450MHz	2483.5MHz	UNII 1	UNII 2A	UNII 2C	UNII 3
2G Ant1	1	3.64	3.76	3.35	-	-	-	-
2G Ant2	2				-	-	-	-
2G Ant3	3				-	-	-	-
5G Ant1	1	-	-	-	4.22	4.47	4.36	5.32
5G Ant2	2	-	-	-				
5G Ant3	3	-	-	-				
5G Ant4	4	-	-	-				
DG [1SS] (dBi)		4.98	3.84	3.1	5.59	6.52	5.51	5.95

Note1: The EUT equips seven antennas.

Note2: The above brand name, model name and type information were declared by manufacturer.

For 2.4GHz function:

For IEEE 802.11b/g/n/VHT/ax mode (3TX/3RX):

Port 1~3 can be used as transmitting/receiving antenna.

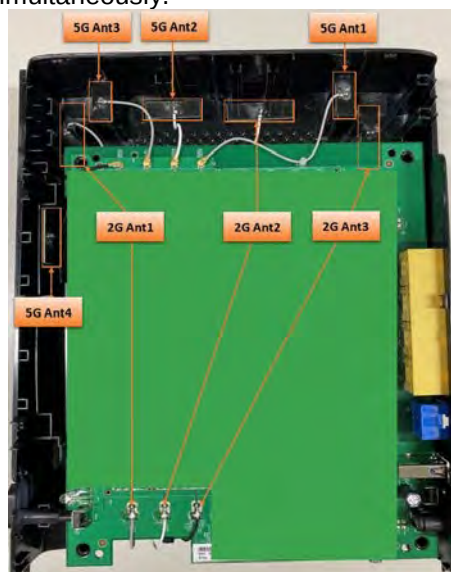
Port 1~3 could transmit/receive simultaneously.

For 5GHz function:

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

Port 1~4 can be used as transmitting/receiving antenna.

Port 1~4 could transmit/receive simultaneously.





1.1.3 Mode Test Duty Cycle

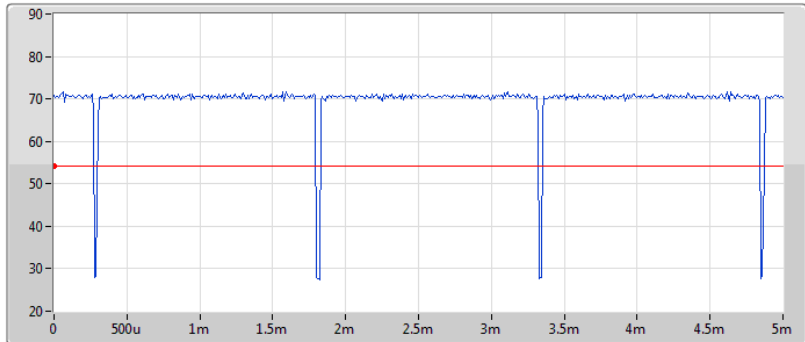
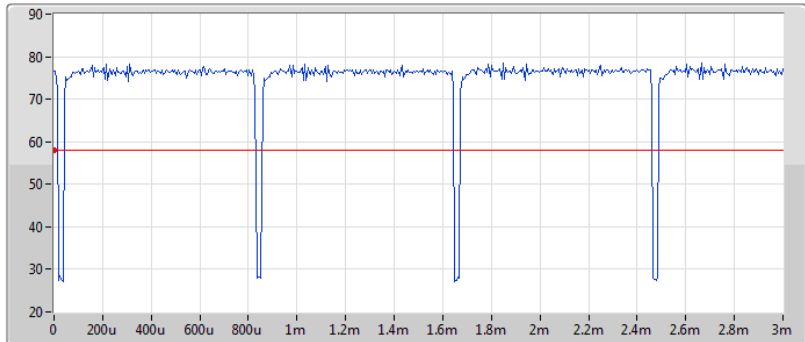
Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.952	0.21	12.5m	100
802.11g	0.962	0.17	2.08m	1k
802.11ax HEW20	0.98	0.09	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.968	0.14	792u	3k

Note:

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

Mode	Plot of Duty Cycle																
802.11b	DC;11b;BWch:20 <table><tr><th>Ch Freq</th><th>RBW</th><th>VBW</th><th>Sweep Time</th><th>Total Sample</th><th>Sample Time</th><th>TX Time</th><th>DC</th></tr><tr><td>2.462GHz</td><td>10MHz</td><td>10MHz</td><td>50ms</td><td>501</td><td>100us</td><td>47.7ms</td><td>0.952</td></tr></table>	Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC	2.462GHz	10MHz	10MHz	50ms	501	100us	47.7ms	0.952
Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC										
2.462GHz	10MHz	10MHz	50ms	501	100us	47.7ms	0.952										
802.11g	DC;11g;BWch:20 <table><tr><th>Ch Freq</th><th>RBW</th><th>VBW</th><th>Sweep Time</th><th>Total Sample</th><th>Sample Time</th><th>TX Time</th><th>DC</th></tr><tr><td>2.412GHz</td><td>10MHz</td><td>10MHz</td><td>10ms</td><td>501</td><td>20us</td><td>9.64ms</td><td>0.962</td></tr></table>	Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC	2.412GHz	10MHz	10MHz	10ms	501	20us	9.64ms	0.962
Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC										
2.412GHz	10MHz	10MHz	10ms	501	20us	9.64ms	0.962										



Mode	Plot of Duty Cycle																
802.11ax HEW20	DC_{ax20}:BWch:20 <table><tr><th>Ch Freq</th><th>RBW</th><th>VBW</th><th>Sweep Time</th><th>Total Sample</th><th>Sample Time</th><th>TX Time</th><th>DC</th></tr><tr><td>2.437GHz</td><td>10MHz</td><td>10MHz</td><td>5ms</td><td>501</td><td>10us</td><td>4.91ms</td><td>0.98</td></tr></table>	Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC	2.437GHz	10MHz	10MHz	5ms	501	10us	4.91ms	0.98
Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC										
2.437GHz	10MHz	10MHz	5ms	501	10us	4.91ms	0.98										
802.11ax HEW40	DC_{ax40}:BWch:40 <table><tr><th>Ch Freq</th><th>RBW</th><th>VBW</th><th>Sweep Time</th><th>Total Sample</th><th>Sample Time</th><th>TX Time</th><th>DC</th></tr><tr><td>2.422GHz</td><td>10MHz</td><td>10MHz</td><td>3ms</td><td>501</td><td>6us</td><td>2.91ms</td><td>0.968</td></tr></table>	Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC	2.422GHz	10MHz	10MHz	3ms	501	6us	2.91ms	0.968
Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC										
2.422GHz	10MHz	10MHz	3ms	501	6us	2.91ms	0.968										

**1.1.4 EUT Operational Condition**

EUT Power Type	From power adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/VHT/ax in 2.4GHz and 11n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	accessMTool(version 3.2.1.5)			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

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

Brand Name	Model Name	Description
ZYXEL	EX3510-B1, C3510XZ	All the models are identical, the difference model for difference brand served as marketing strategy.
Google Fiber	GRAX110Z	

Note 1: From the above models, model: EX3510-B1 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.



1.1.6 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

1.2 Testing Location Information

Testing Location Information				
Test Lab. : Sporton International Inc. Hsinchu Laboratory				
Hsinchu ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)				
(TAF: 3787) 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	TH01-CB	Owen Hsu	23.4-23.9 / 56-59	Jun. 08, 2022
Radiated<1GHz	03CH05-CB	Stim Sung	24.5-25.6 / 56-59	Jun. 04, 2022~ Jun. 15, 2022
Radiated>1GHz	03CH02-CB	Stim Sung	24.2-26.1 / 55-58	Jun. 04, 2022~ Jun. 15, 2022
AC Conduction	CO01-CB	Bob Chang	21~22 / 53~54	Jun. 08, 2022

1.3 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

Mode	Power Setting
802.11b_Nss1,(1Mbps)_3TX	-
2412MHz	98
2437MHz	99
2462MHz	96
802.11g_Nss1,(6Mbps)_3TX	-
2412MHz	74
2417MHz	82
2437MHz	98
2457MHz	81
2462MHz	73
802.11ax HEW20_Nss1,(MCS0)_3TX	-
2412MHz	71
2417MHz	81
2437MHz	96
2457MHz	80
2462MHz	69
802.11ax HEW40_Nss1,(MCS0)_3TX	-
2422MHz	63
2437MHz	74
2452MHz	68
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	-
2412MHz	71
2417MHz	81
2437MHz	96
2457MHz	80
2462MHz	69
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	-
2422MHz	63
2437MHz	74
2452MHz	68

Note:

- ♦ The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.
- ♦ Evaluated HEW20/HEW40 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.

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	CTX 2.4GHz + Ethernet cable, Color: Yellow
2	CTX 5GHz + Ethernet cable, Color: Yellow
For operating mode 2 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
	1. The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration. 2. The EUT equipped with RJ-45 cable (color: blue or yellow) was performed for the testing, and the worst case was found as RJ-45 cable (color: yellow). So the measurement will follow this same test configuration.
1	EUT in Y axis CTX 2.4GHz + Ethernet cable, Color: Yellow
2	EUT in Y axis CTX 5GHz + Ethernet cable, Color: Yellow
For operating mode 1 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 was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA252023 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	MNC	MAUS-1202503000	INPUT: 100-240V ~ 50/60Hz, 0.8A OUTPU: 12V, 2.5A
Others			
Ethernet cable*1: Non-shielded, 1m, Color: Blue Ethernet cable*1: Non-shielded, 1.8m, Color: Yellow Note: Only one ethernet cable will be selected for market.			

2.5 Support Equipment

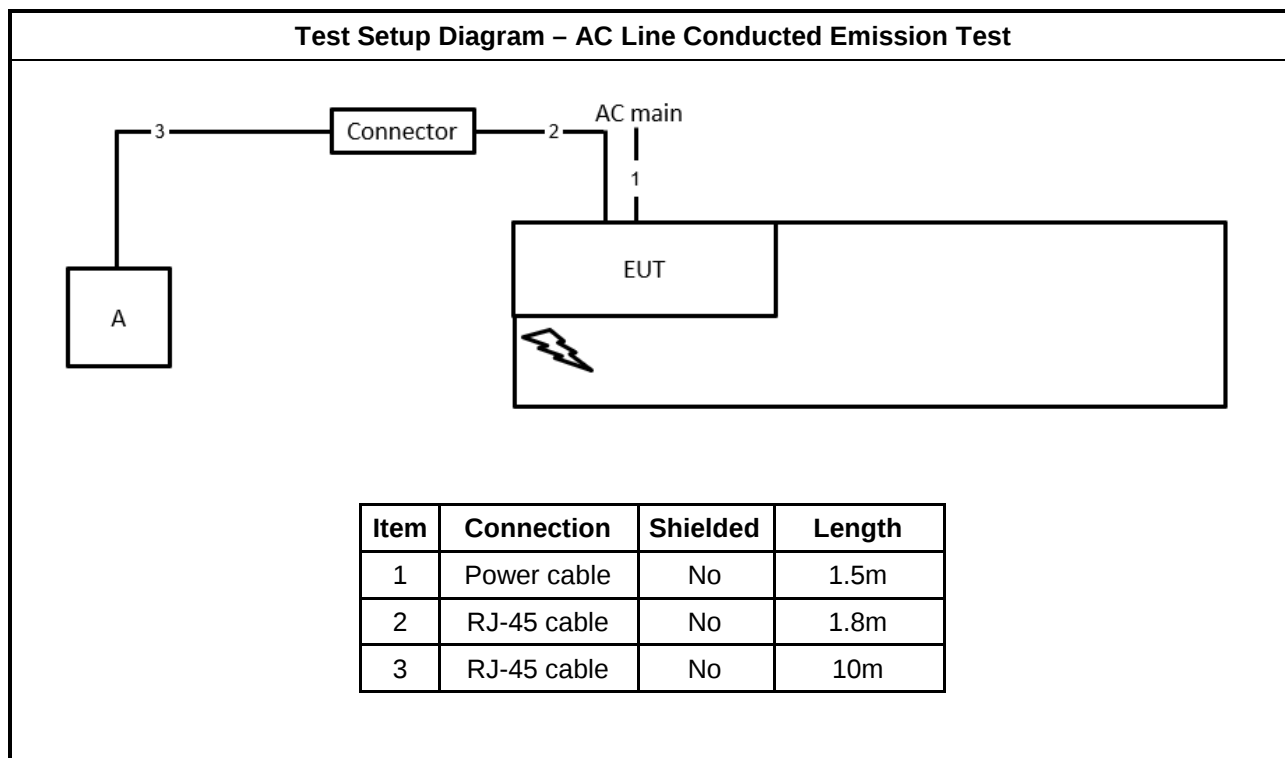
For AC Conduction:

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

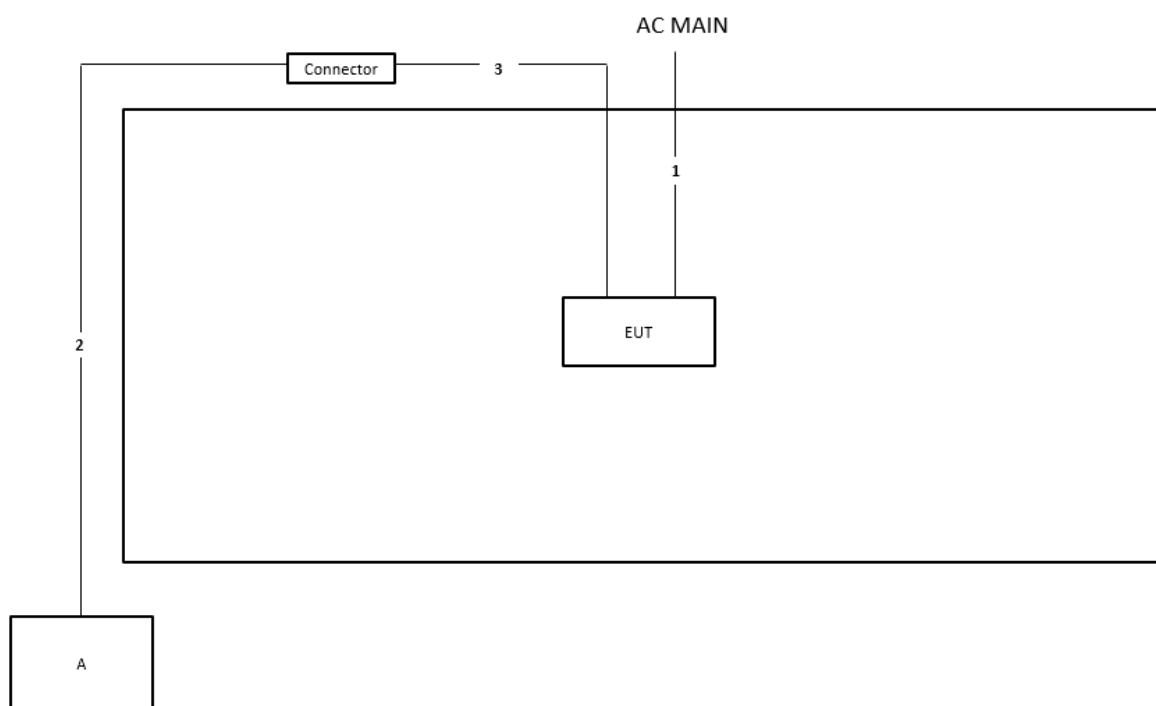
For RF Conducted and Radiated:

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

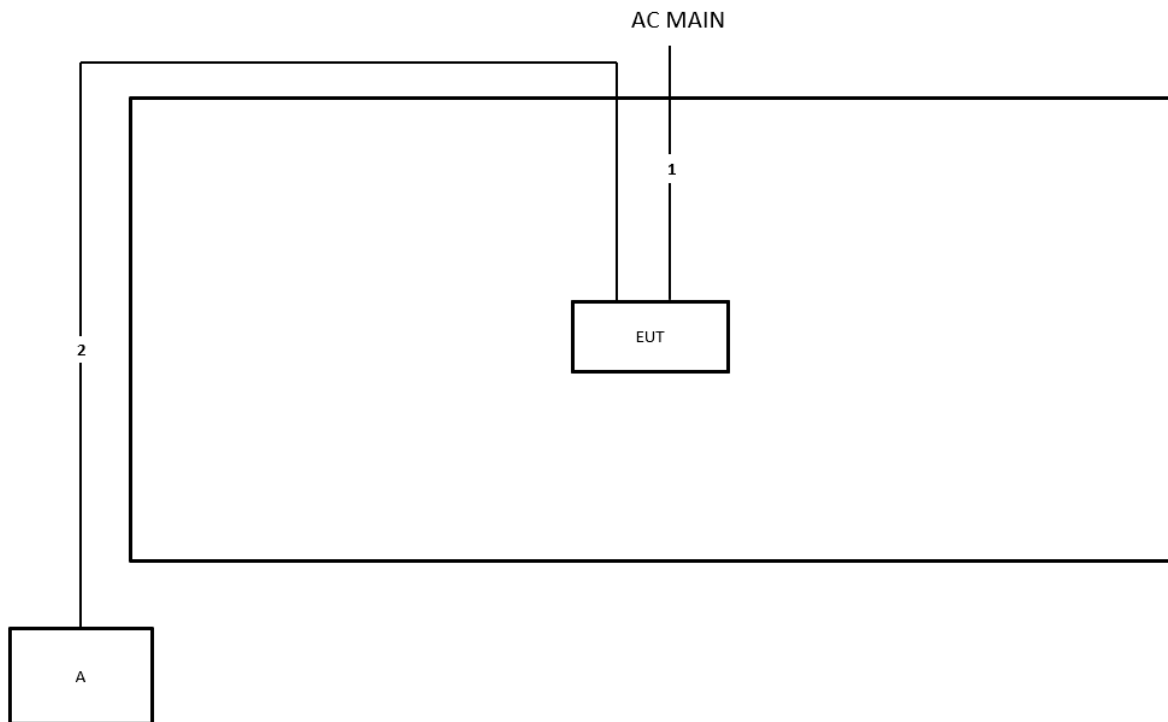
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.8m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
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.		

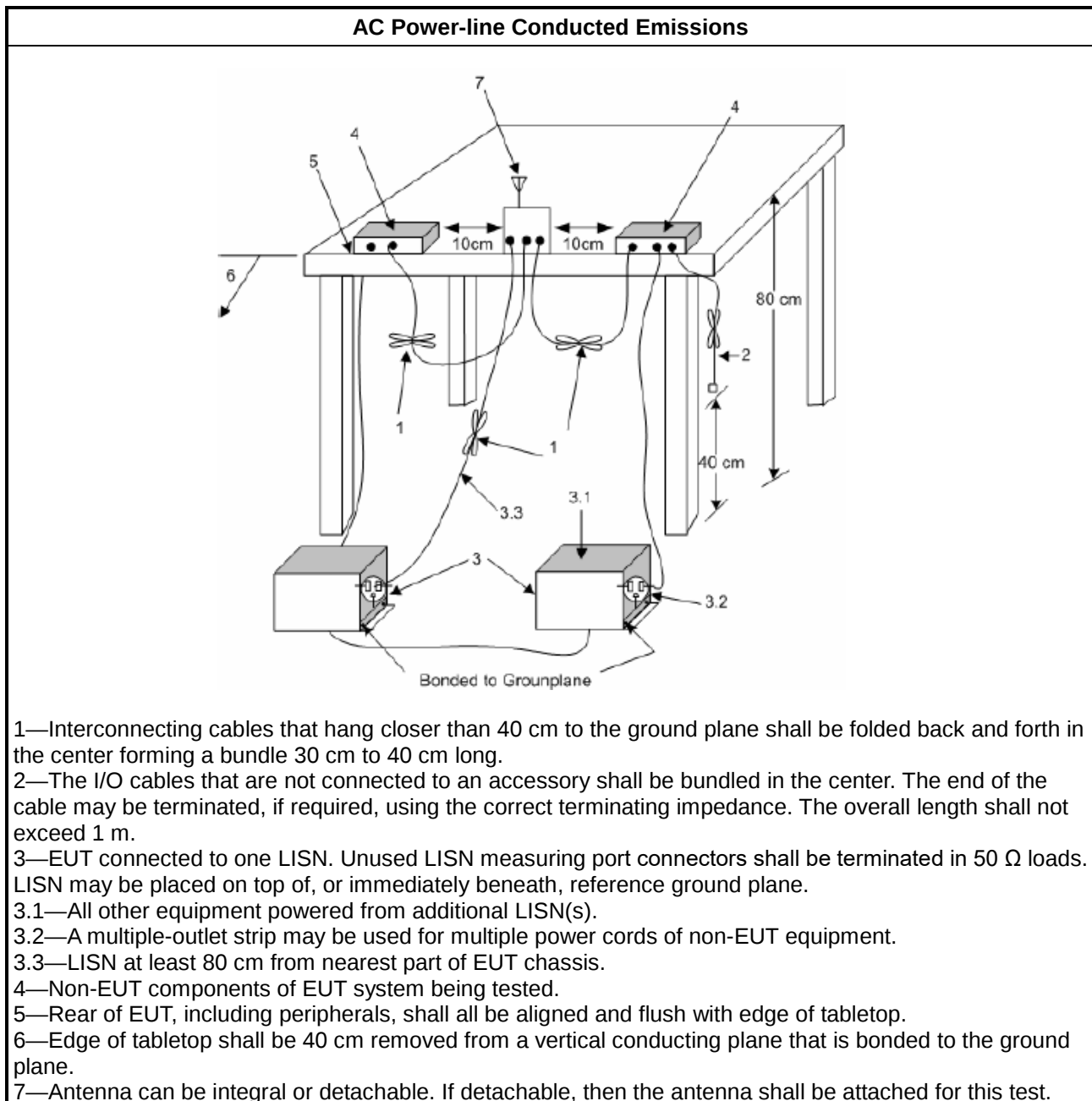
3.1.2 Measuring Instruments

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



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- 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 $\geq$ 500 kHz.

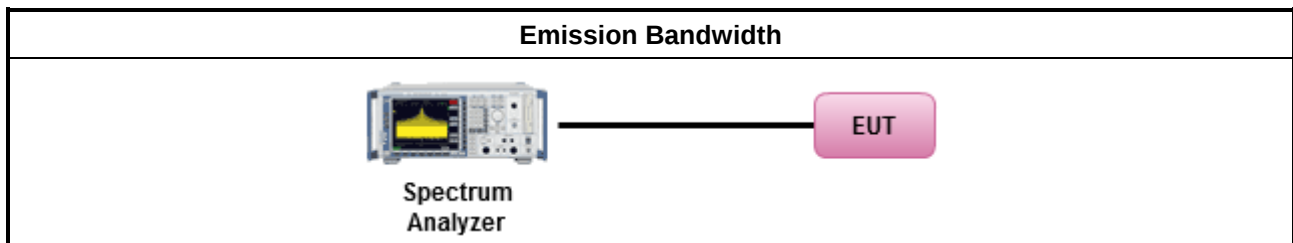
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

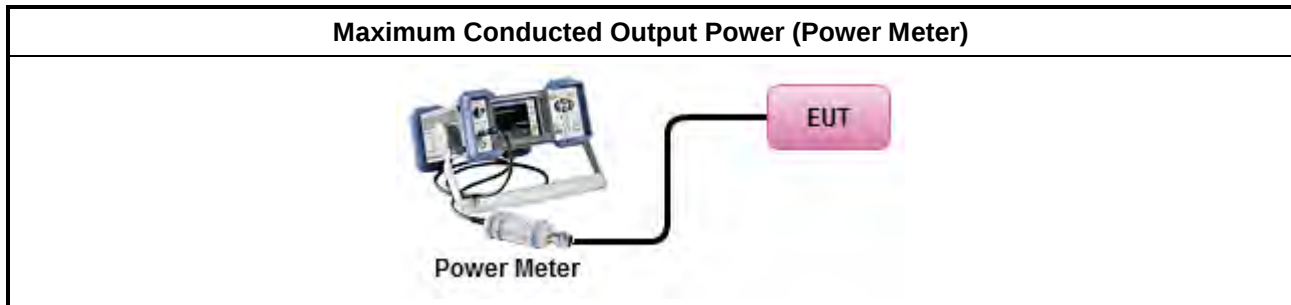
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
Power Spectral Density (PSD) ≤ 8 dBm/3kHz

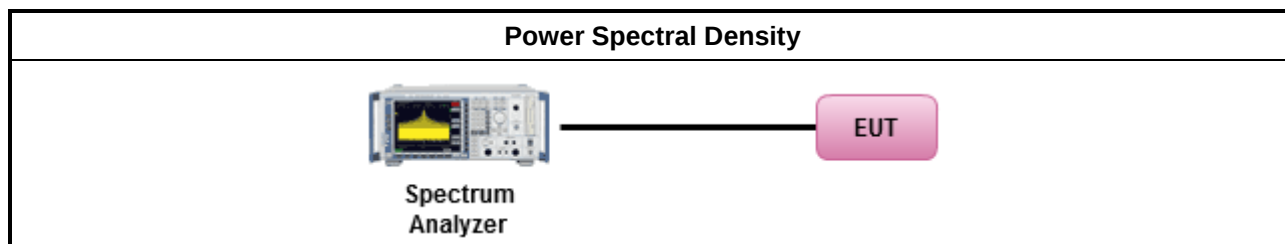
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

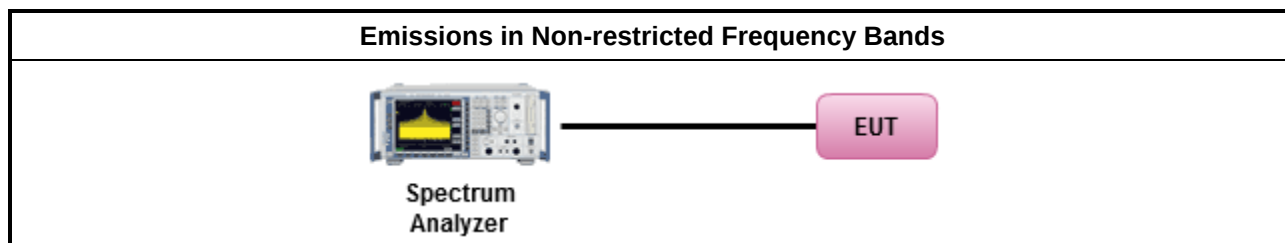
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

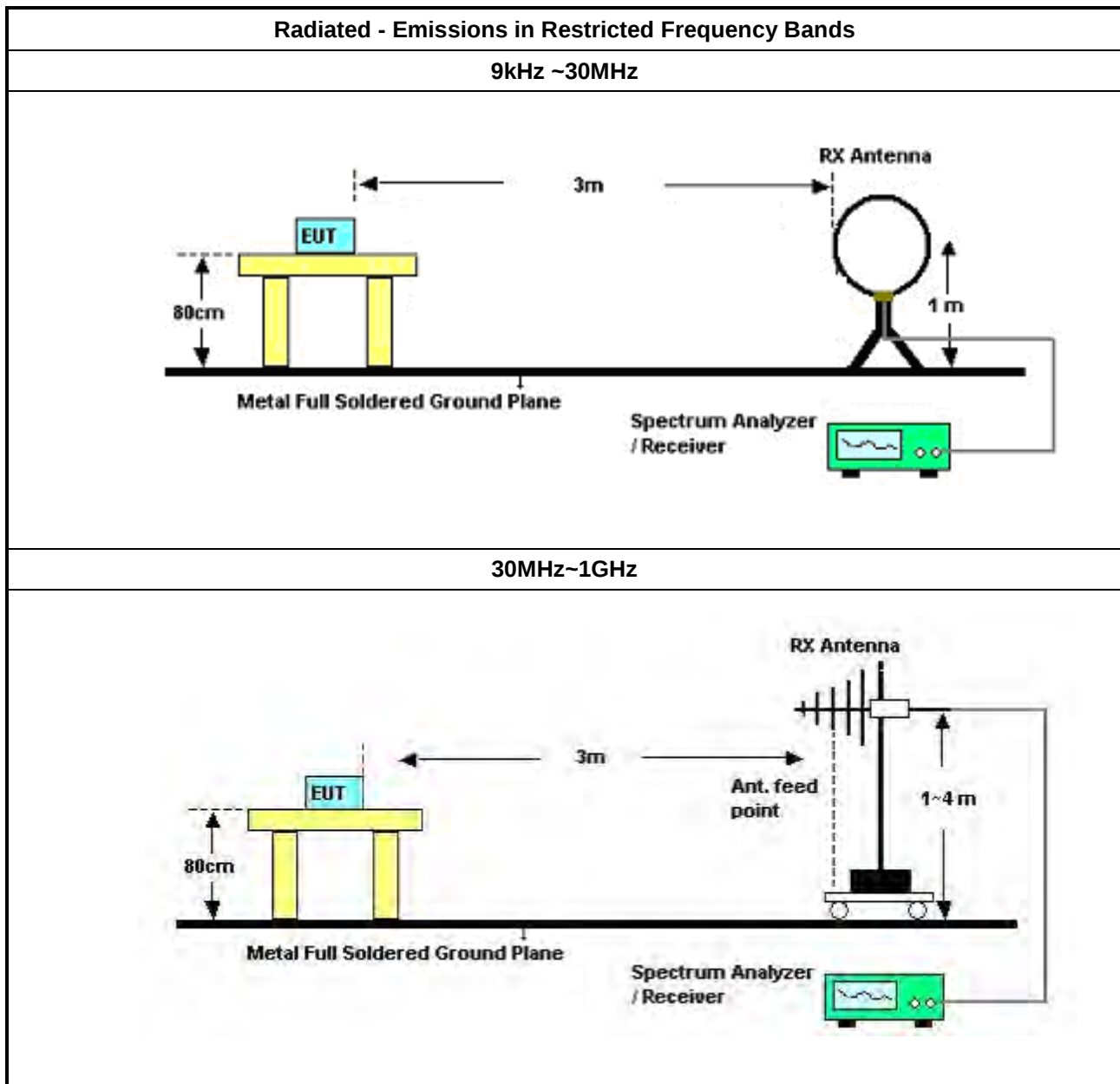
Refer a test equipment and calibration data table in this test report.

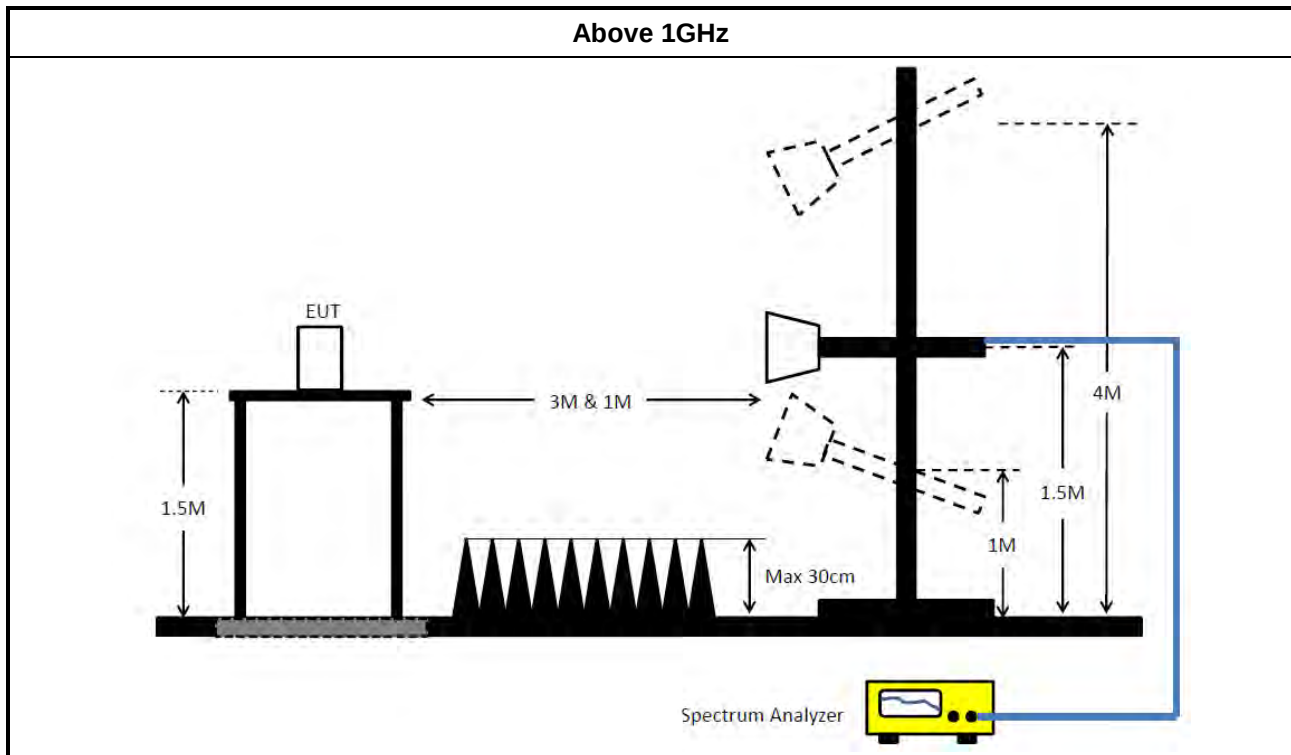


3.6.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq$ 98%).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq$ 1/T).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (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	May 18, 2022	May 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 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)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 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. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 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	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	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)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 27, 2022	May 26, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz – 26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P1	1 GHz – 26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P2	1 GHz – 26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P3	1 GHz – 26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P4	1 GHz – 26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P5	1 GHz – 26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

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



Conducted Emissions at Powerline

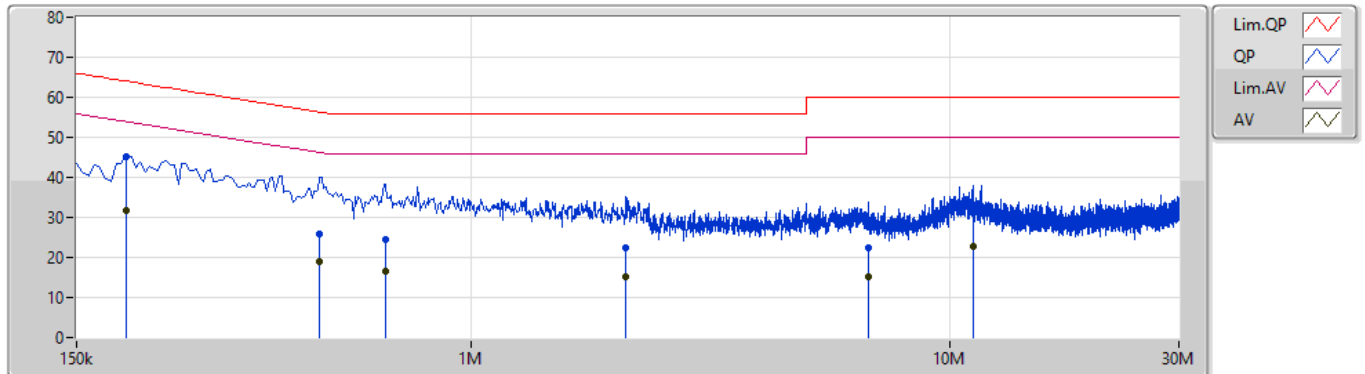
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	AV	361.5k	37.55	48.70	-11.15	Neutral

Mode 2

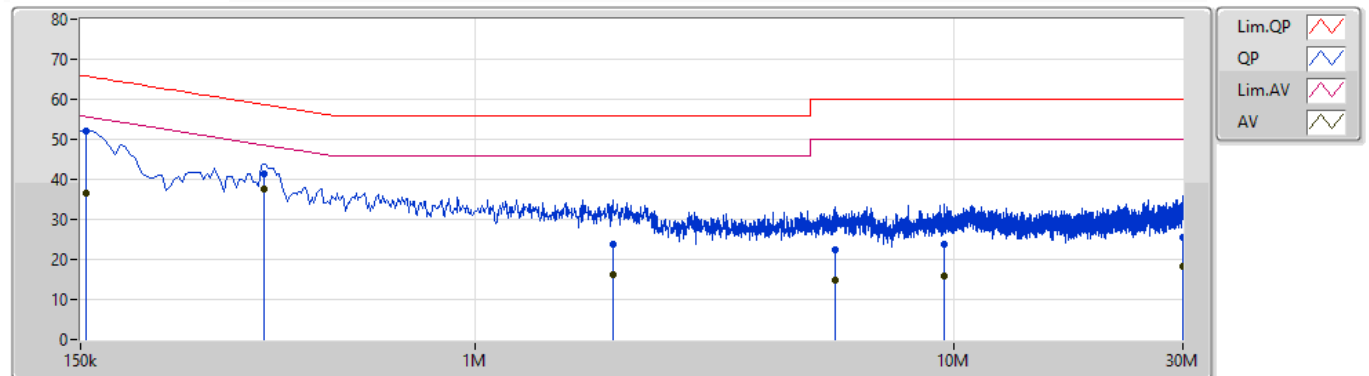
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Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	190.5k	45.06	64.01	-18.95	9.99	Line	"Worst"	35.07	0.06	0.04	9.89			
AV	190.5k	31.76	54.01	-22.25	9.99	Line	-	21.77	0.06	0.04	9.89			
QP	483k	25.95	56.29	-30.34	10.01	Line	-	15.94	0.06	0.06	9.89			
AV	483k	18.84	46.29	-27.45	10.01	Line	-	8.83	0.06	0.06	9.89			
QP	663k	24.42	56.00	-31.58	10.01	Line	-	14.41	0.07	0.05	9.89			
AV	663k	16.72	46.00	-29.28	10.01	Line	-	6.71	0.07	0.05	9.89			
QP	2.103M	22.28	56.00	-33.72	10.07	Line	-	12.21	0.09	0.09	9.89			
AV	2.103M	15.19	46.00	-30.81	10.07	Line	-	5.12	0.09	0.09	9.89			
QP	6.743M	22.52	60.00	-37.48	10.21	Line	-	12.31	0.18	0.13	9.90			
AV	6.743M	15.16	50.00	-34.84	10.21	Line	-	4.95	0.18	0.13	9.90			
QP	11.139M	30.94	60.00	-29.06	10.31	Line	-	20.63	0.23	0.16	9.92			
AV	11.139M	22.88	50.00	-27.12	10.31	Line	-	12.57	0.23	0.16	9.92			

Mode 2

22/06/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.5k	51.92	65.75	-13.83	10.00	Neutral	-	41.92	0.07	0.04	9.89			
AV	154.5k	36.49	55.75	-19.26	10.00	Neutral	-	26.49	0.07	0.04	9.89			
QP	361.5k	41.23	58.70	-17.47	10.02	Neutral	-	31.21	0.07	0.06	9.89			
AV	361.5k	37.55	48.70	-11.15	10.02	Neutral	"Worst"	27.53	0.07	0.06	9.89			
QP	1.941M	23.75	56.00	-32.25	10.08	Neutral	-	13.67	0.10	0.09	9.89			
AV	1.941M	16.30	46.00	-29.70	10.08	Neutral	-	6.22	0.10	0.09	9.89			
QP	5.64M	22.58	60.00	-37.42	10.19	Neutral	-	12.39	0.17	0.12	9.90			
AV	5.64M	14.76	50.00	-35.24	10.19	Neutral	-	4.57	0.17	0.12	9.90			
QP	9.542M	23.82	60.00	-36.18	10.30	Neutral	-	13.52	0.23	0.16	9.91			
AV	9.542M	15.98	50.00	-34.02	10.30	Neutral	-	5.68	0.23	0.16	9.91			
QP	29.994M	25.43	60.00	-34.57	10.67	Neutral	-	14.76	0.31	0.34	10.02			
AV	29.994M	18.36	50.00	-31.64	10.67	Neutral	-	7.69	0.31	0.34	10.02			

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)_3TX	7.5M	11.919M	11M9G1D	6.55M	10.995M
802.11g_Nss1,(6Mbps)_3TX	16.35M	18.516M	18M5D1D	16.275M	16.692M
802.11ax HEW20_Nss1,(MCS0)_3TX	18.975M	19.315M	19M3D1D	18.25M	19.015M
802.11ax HEW40_Nss1,(MCS0)_3TX	37.6M	37.831M	37M8D1D	36.15M	37.581M

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

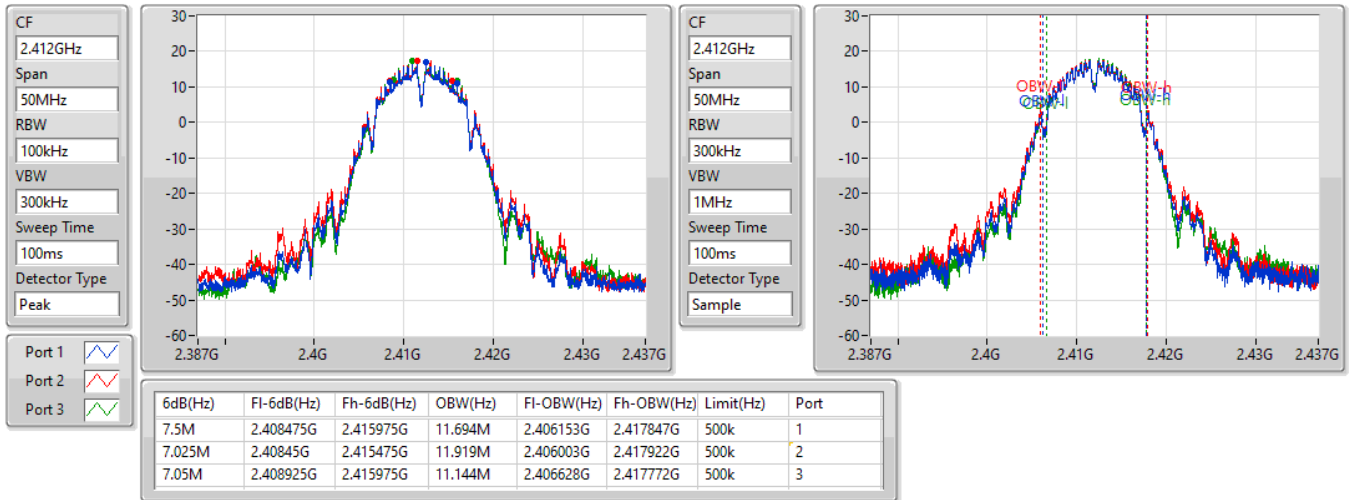
Result

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)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	7.5M	11.694M	7.025M	11.919M	7.05M	11.144M
2437MHz	Pass	500k	7M	11.619M	7.05M	11.869M	6.55M	11.344M
2462MHz	Pass	500k	6.55M	11.319M	7.05M	11.669M	6.575M	10.995M
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.35M	16.792M	16.35M	16.792M	16.275M	16.742M
2437MHz	Pass	500k	16.3M	17.091M	16.35M	17.291M	16.3M	18.516M
2462MHz	Pass	500k	16.35M	16.767M	16.325M	16.692M	16.325M	16.767M
802.11ax HEW20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.975M	19.065M	18.875M	19.04M	18.7M	19.015M
2437MHz	Pass	500k	18.85M	19.165M	18.875M	19.14M	18.25M	19.315M
2462MHz	Pass	500k	18.775M	19.015M	18.9M	19.015M	18.825M	19.015M
802.11ax HEW40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.35M	37.781M	36.7M	37.831M	36.35M	37.681M
2437MHz	Pass	500k	37.55M	37.631M	36.15M	37.681M	36.35M	37.631M
2452MHz	Pass	500k	37.6M	37.781M	37.4M	37.681M	36.35M	37.581M

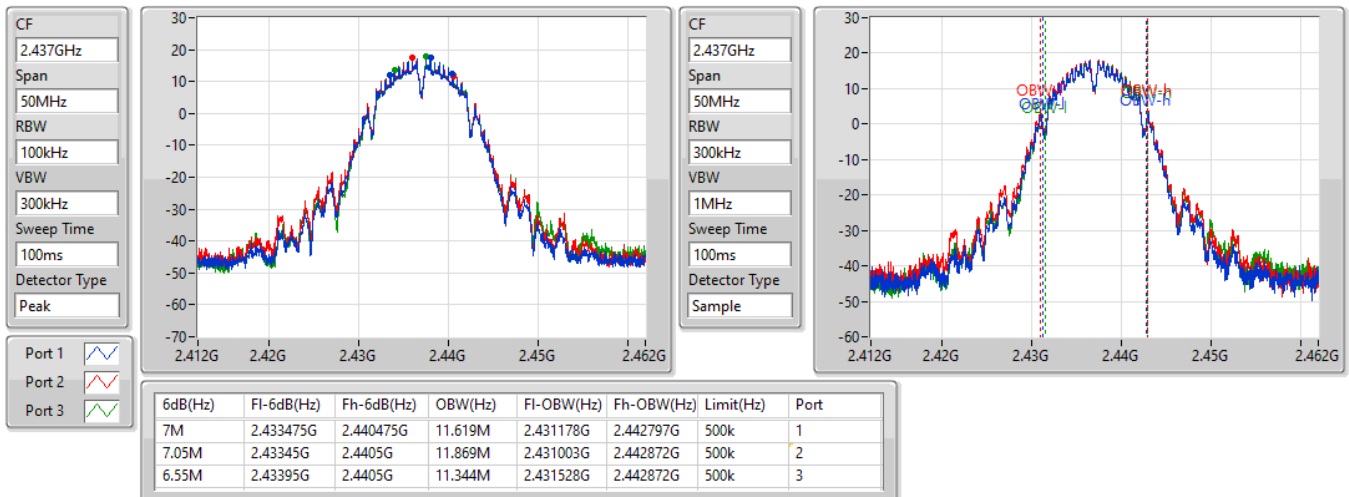
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_3TX
EBW
2412MHz

08/06/2022

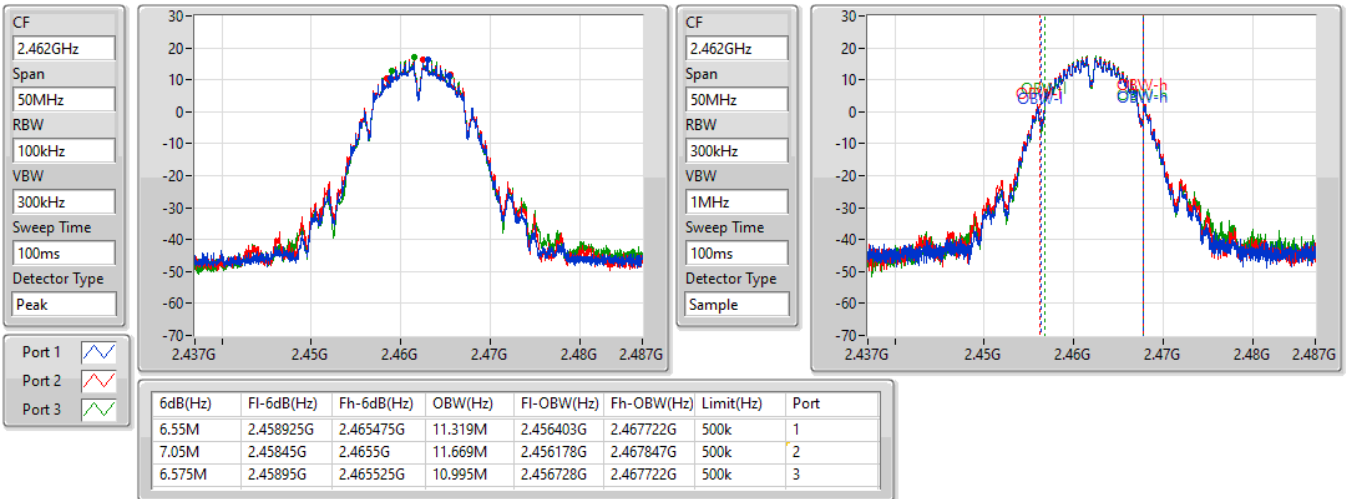

802.11b_Nss1,(1Mbps)_3TX
EBW
2437MHz

08/06/2022

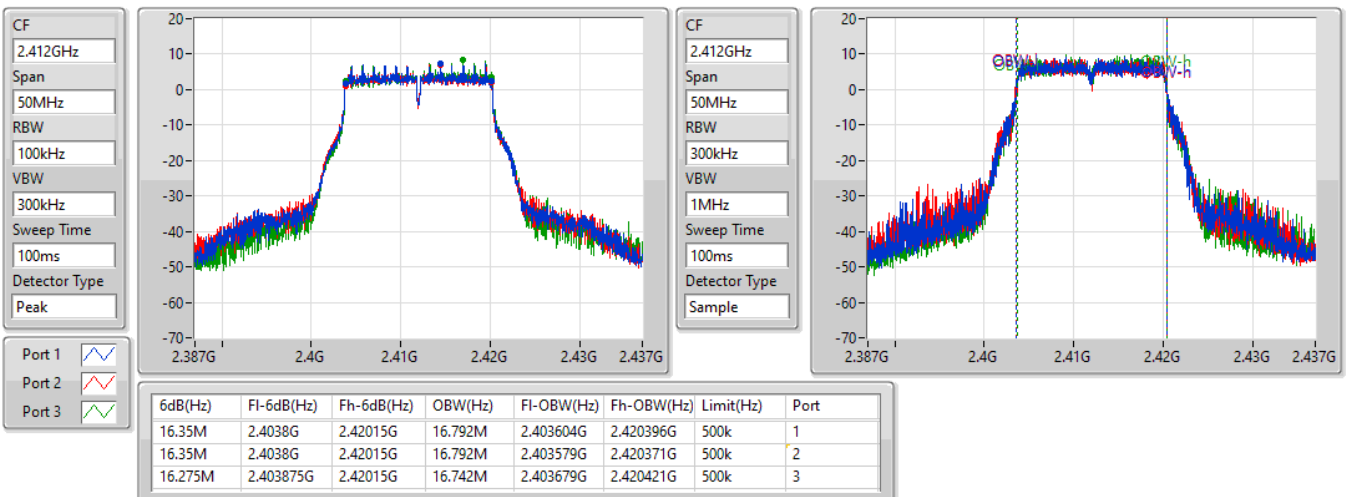


802.11b_Nss1,(1Mbps)_3TX
EBW
2462MHz

08/06/2022


802.11g_Nss1,(6Mbps)_3TX
EBW
2412MHz

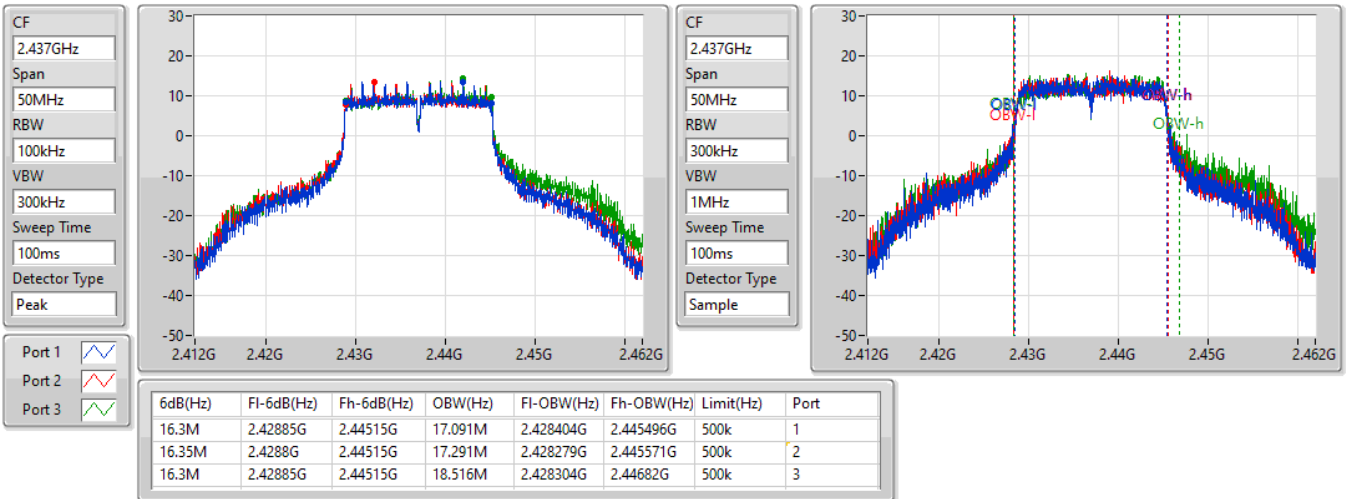
08/06/2022



802.11g_Nss1,(6Mbps)_3TX

EBW
2437MHz

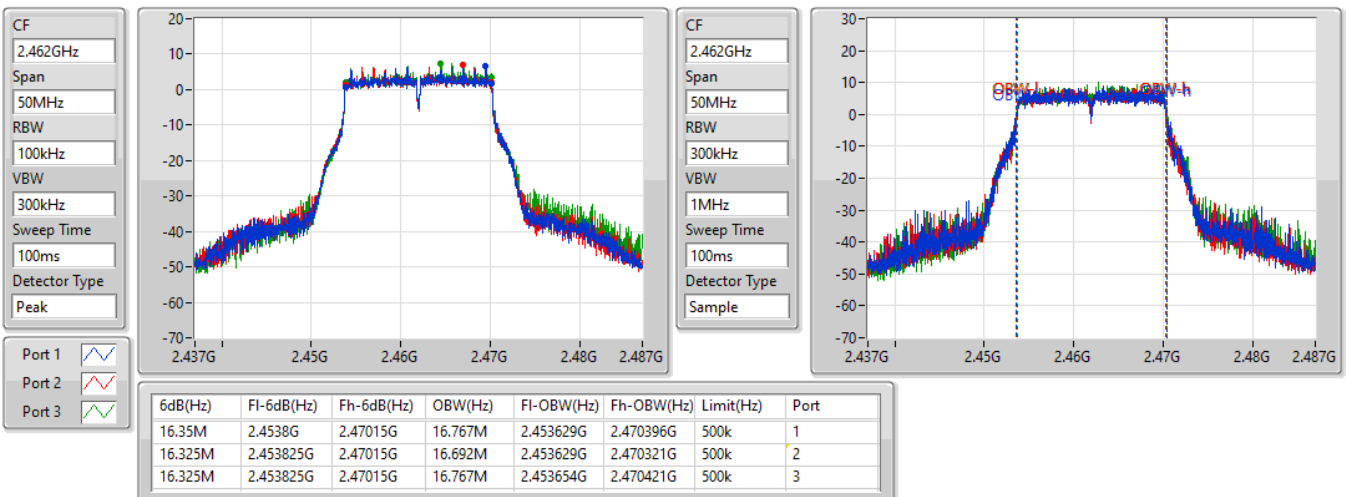
08/06/2022



802.11g_Nss1,(6Mbps)_3TX

EBW
2462MHz

08/06/2022

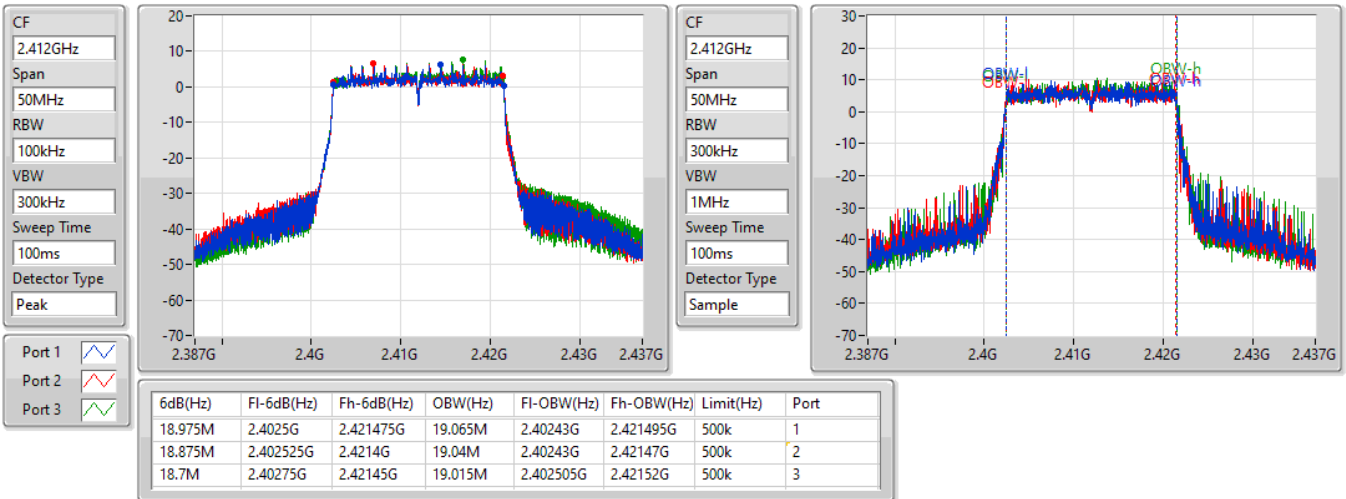


802.11ax HEW20_Nss1,(MCS0)_3TX

EBW

2412MHz

08/06/2022

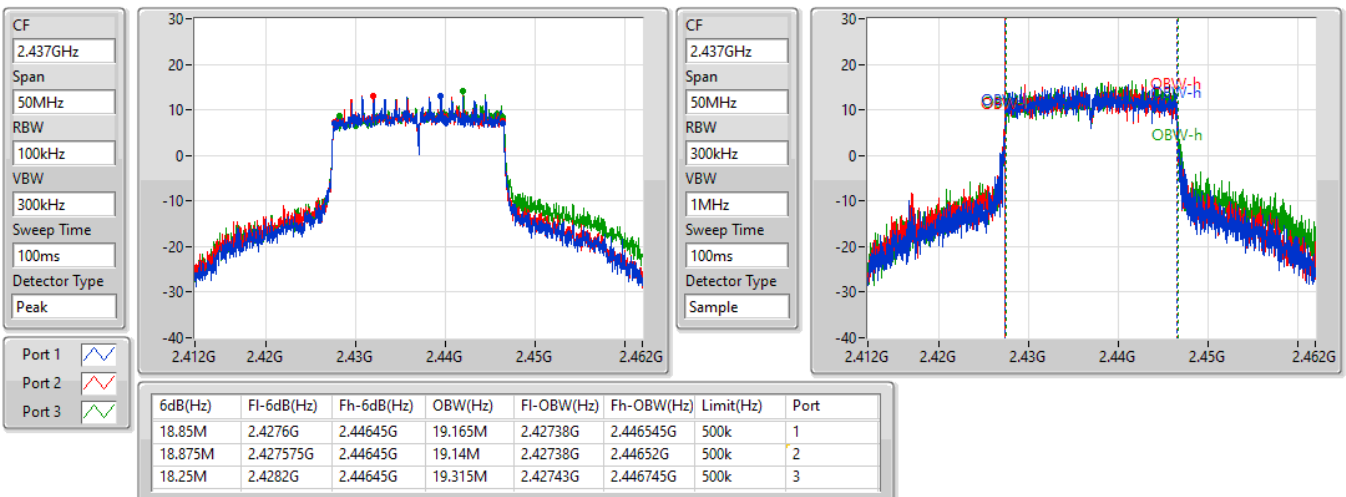


802.11ax HEW20_Nss1,(MCS0)_3TX

EBW

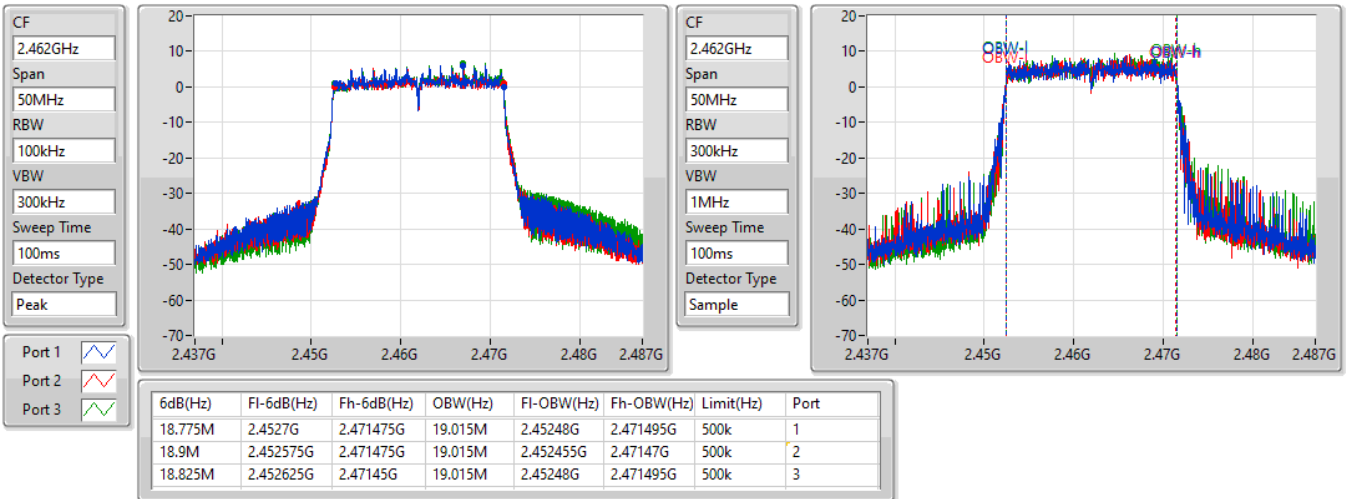
2437MHz

08/06/2022

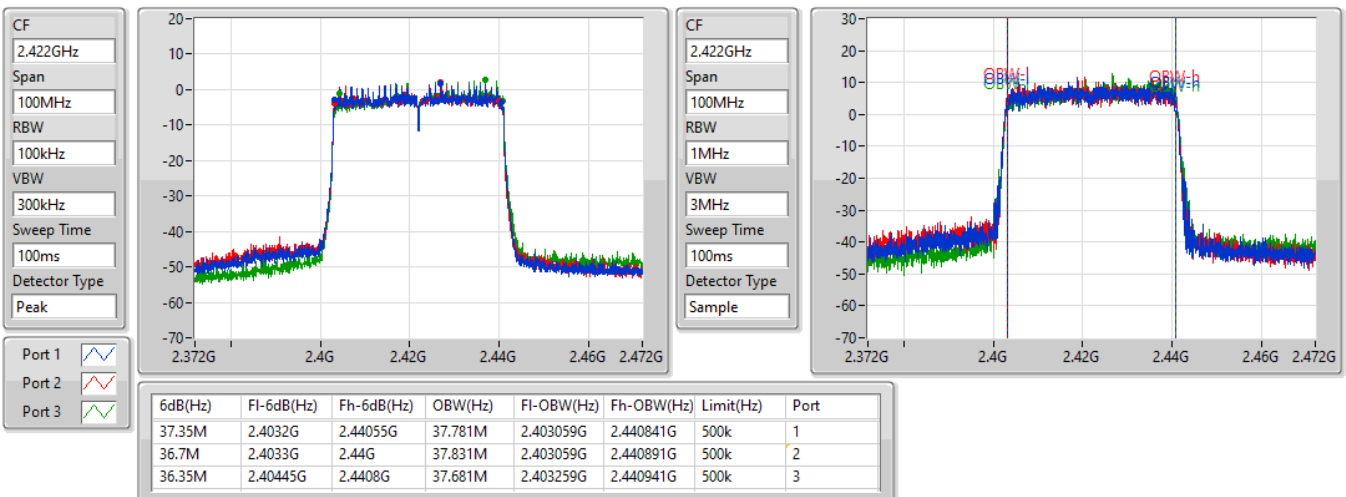


802.11ax HEW20_Nss1,(MCS0)_3TX
EBW
2462MHz

08/06/2022

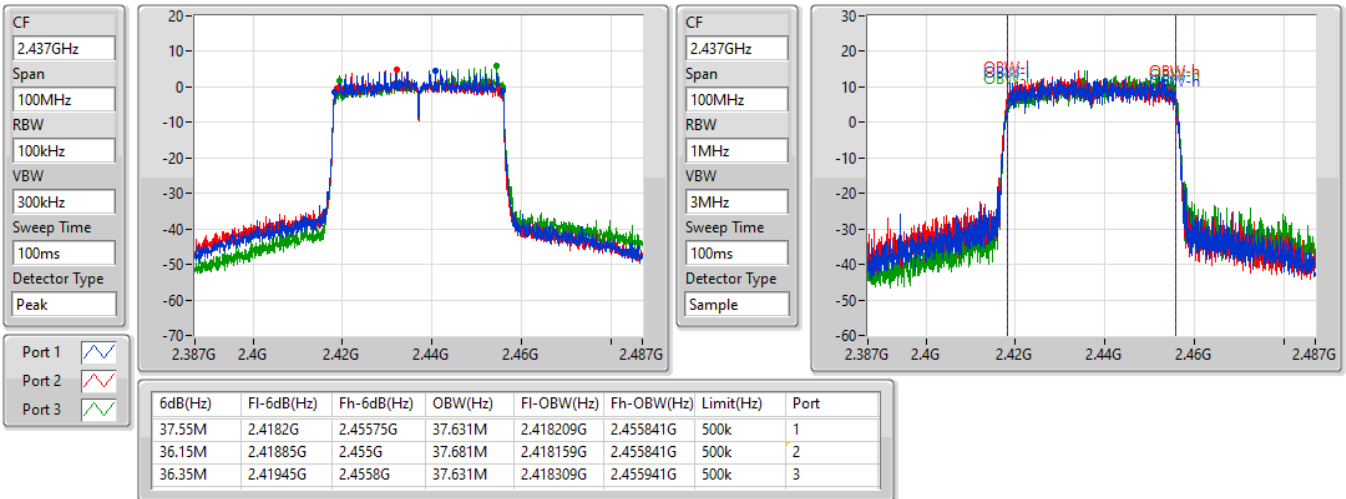

802.11ax HEW40_Nss1,(MCS0)_3TX
EBW
2422MHz

08/06/2022

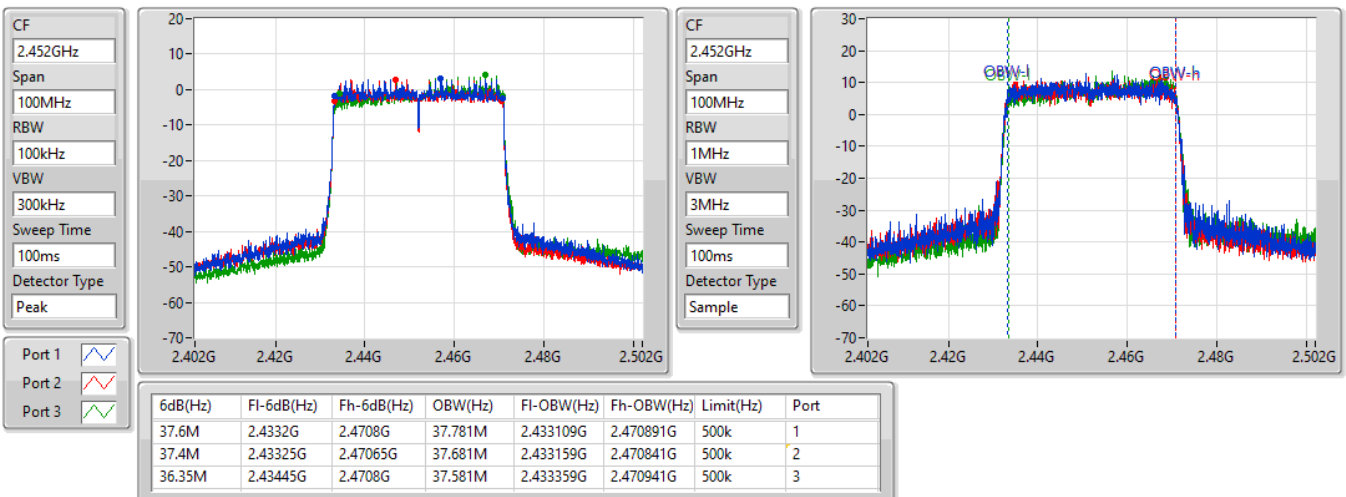


802.11ax HEW40_Nss1,(MCS0)_3TX
EBW
2437MHz

08/06/2022


802.11ax HEW40_Nss1,(MCS0)_3TX
EBW
2452MHz

08/06/2022





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_3TX	29.67	0.92683
802.11g_Nss1,(6Mbps)_3TX	28.94	0.78343
802.11ax HEW20_Nss1,(MCS0)_3TX	28.63	0.72946
802.11ax HEW40_Nss1,(MCS0)_3TX	23.29	0.21330
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	28.63	0.72946
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	23.29	0.21330

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	3.76	24.27	24.64	24.94	29.40	30.00
2437MHz	Pass	3.76	24.84	24.98	24.89	29.67	30.00
2462MHz	Pass	3.76	23.51	23.87	24.30	28.68	30.00
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	3.76	18.34	18.40	18.78	23.28	30.00
2417MHz	Pass	3.76	20.29	20.60	20.74	25.32	30.00
2437MHz	Pass	3.76	23.81	24.21	24.47	28.94	30.00
2457MHz	Pass	3.76	19.68	19.87	20.51	24.81	30.00
2462MHz	Pass	3.76	17.69	17.74	18.33	22.70	30.00
802.11ax HEW20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	3.76	17.76	17.85	18.45	22.80	30.00
2417MHz	Pass	3.76	20.31	20.55	20.89	25.36	30.00
2437MHz	Pass	3.76	23.72	23.76	24.10	28.63	30.00
2457MHz	Pass	3.76	19.52	19.78	20.43	24.70	30.00
2462MHz	Pass	3.76	16.98	17.10	17.58	22.00	30.00
802.11ax HEW40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	3.76	15.84	15.90	16.14	20.73	30.00
2437MHz	Pass	3.76	18.23	18.54	18.76	23.29	30.00
2452MHz	Pass	3.76	16.84	16.85	17.17	21.73	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	4.98	17.76	17.85	18.45	22.80	30.00
2417MHz	Pass	4.98	20.31	20.55	20.89	25.36	30.00
2437MHz	Pass	4.98	23.72	23.76	24.10	28.63	30.00
2457MHz	Pass	4.98	19.52	19.78	20.43	24.70	30.00
2462MHz	Pass	4.98	16.98	17.10	17.58	22.00	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	4.98	15.84	15.90	16.14	20.73	30.00
2437MHz	Pass	4.98	18.23	18.54	18.76	23.29	30.00
2452MHz	Pass	4.98	16.84	16.85	17.17	21.73	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_3TX	5.40
802.11g_Nss1,(6Mbps)_3TX	3.32
802.11ax HEW20_Nss1,(MCS0)_3TX	2.80
802.11ax HEW40_Nss1,(MCS0)_3TX	-5.89

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	4.98	-5.53	-4.95	-4.02	-0.24	8.00
2437MHz	Pass	4.98	-5.23	-5.15	-4.81	-0.71	8.00
2462MHz	Pass	4.98	1.10	2.64	3.41	5.40	8.00
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	4.98	-7.13	-6.86	-5.06	-2.12	8.00
2437MHz	Pass	4.98	-1.61	-1.20	0.83	3.32	8.00
2462MHz	Pass	4.98	-7.69	-6.82	-5.42	-1.83	8.00
802.11ax HEW20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	4.98	-6.87	-6.18	-7.21	-1.96	8.00
2437MHz	Pass	4.98	-1.44	-2.43	-1.80	2.80	8.00
2462MHz	Pass	4.98	-8.85	-8.36	-9.34	-4.87	8.00
802.11ax HEW40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	4.98	-12.90	-12.83	-12.15	-8.02	8.00
2437MHz	Pass	4.98	-10.93	-9.65	-9.97	-5.89	8.00
2452MHz	Pass	4.98	-12.01	-11.65	-11.39	-6.97	8.00

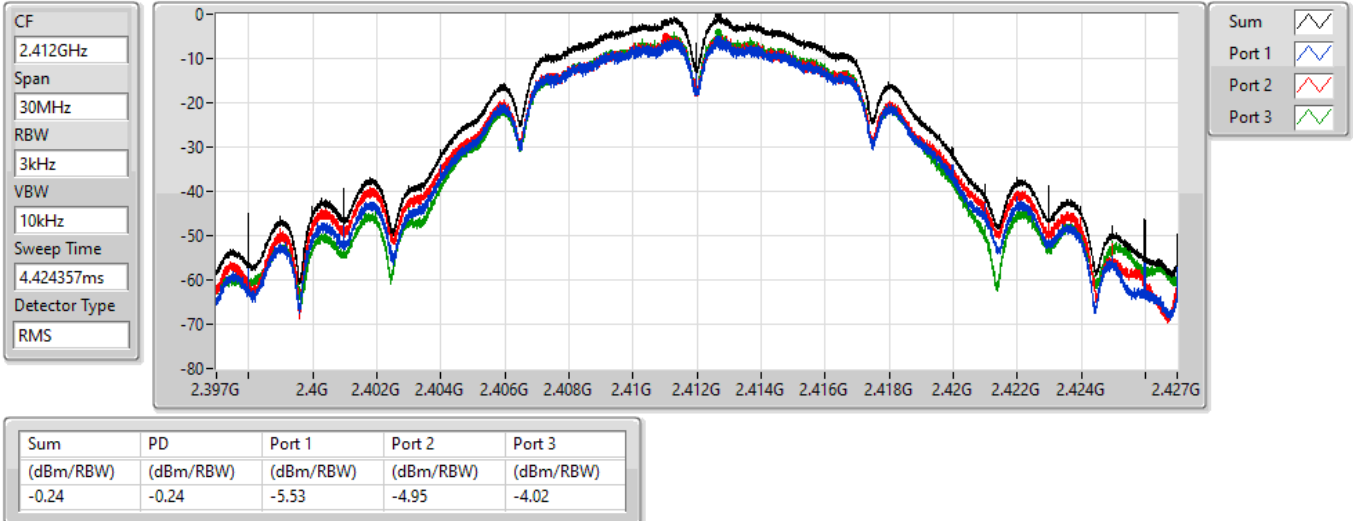
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_3TX

PSD

2412MHz

08/06/2022

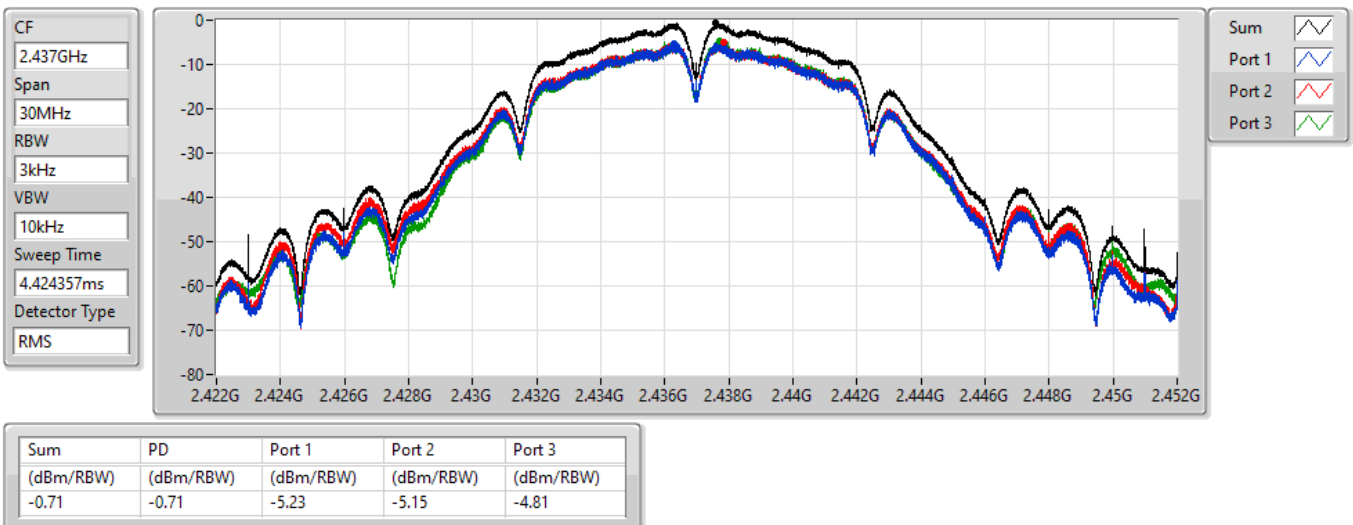


802.11b_Nss1,(1Mbps)_3TX

PSD

2437MHz

08/06/2022

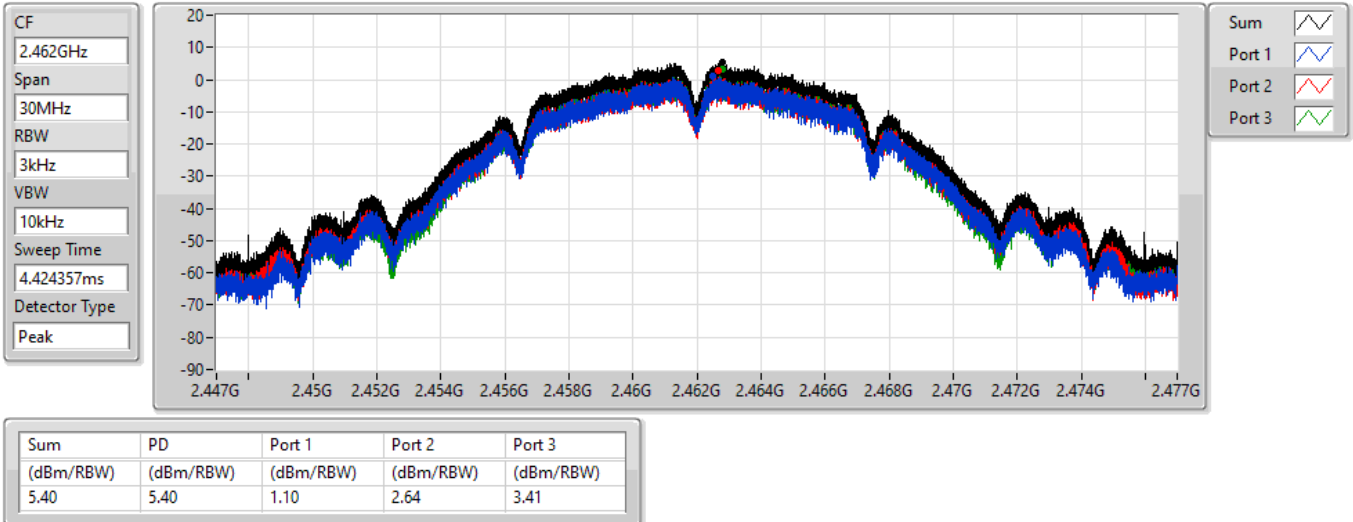


802.11b_Nss1,(1Mbps)_3TX

2462MHz

PSD

08/06/2022

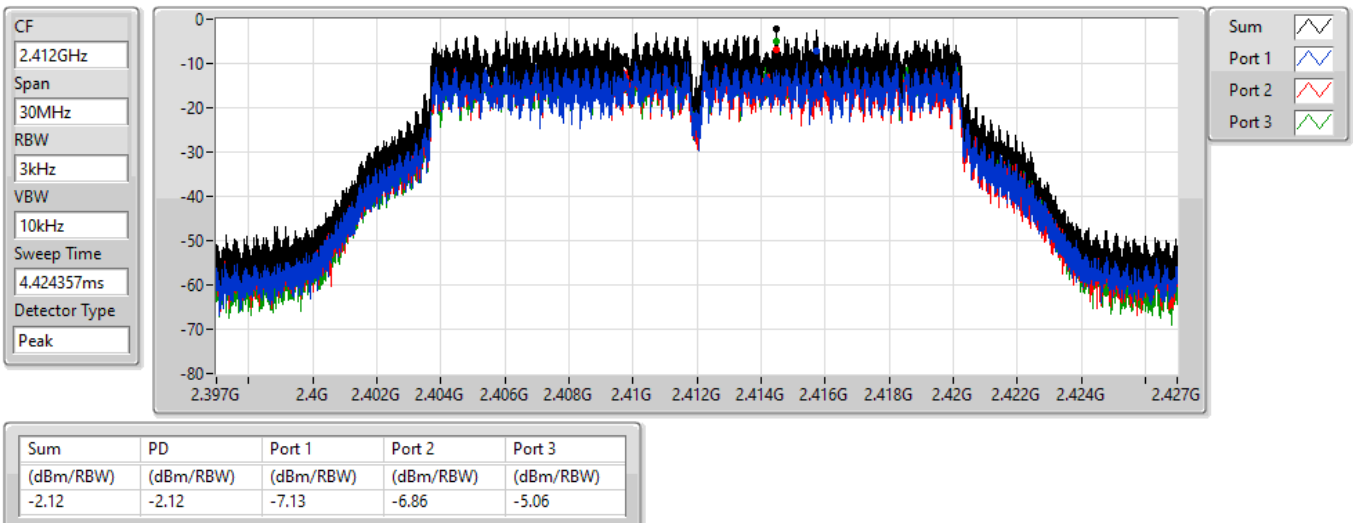


802.11g_Nss1,(6Mbps)_3TX

2412MHz

PSD

08/06/2022

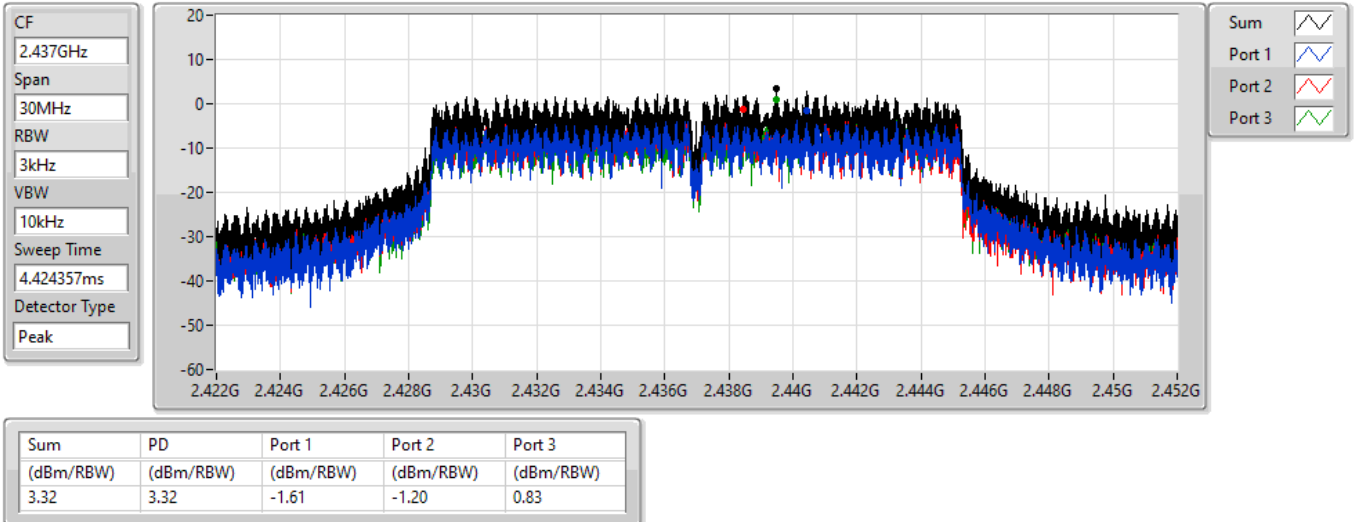


802.11g_Nss1,(6Mbps)_3TX

PSD

2437MHz

08/06/2022

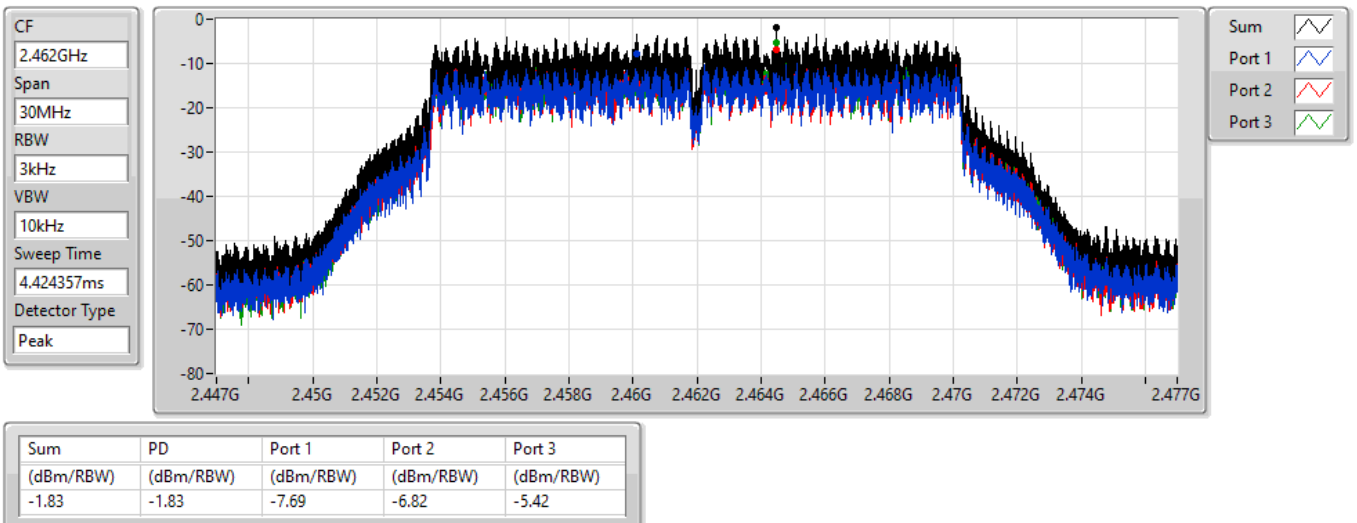


802.11g_Nss1,(6Mbps)_3TX

PSD

2462MHz

08/06/2022

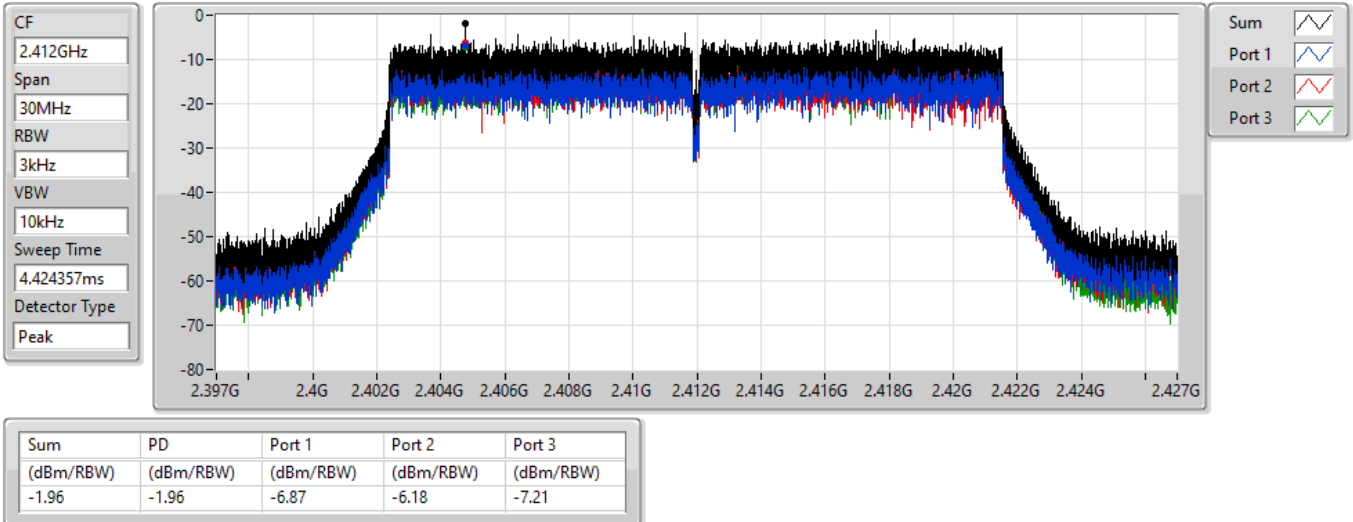


802.11ax HEW20_Nss1,(MCS0)_3TX

PSD

2412MHz

08/06/2022

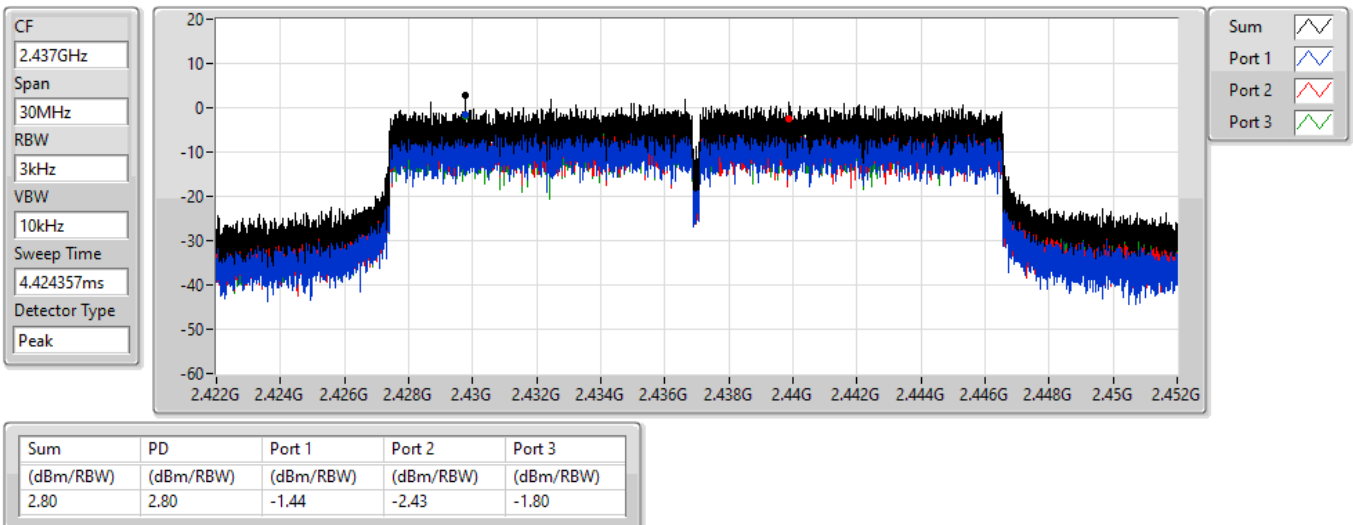


802.11ax HEW20_Nss1,(MCS0)_3TX

PSD

2437MHz

08/06/2022

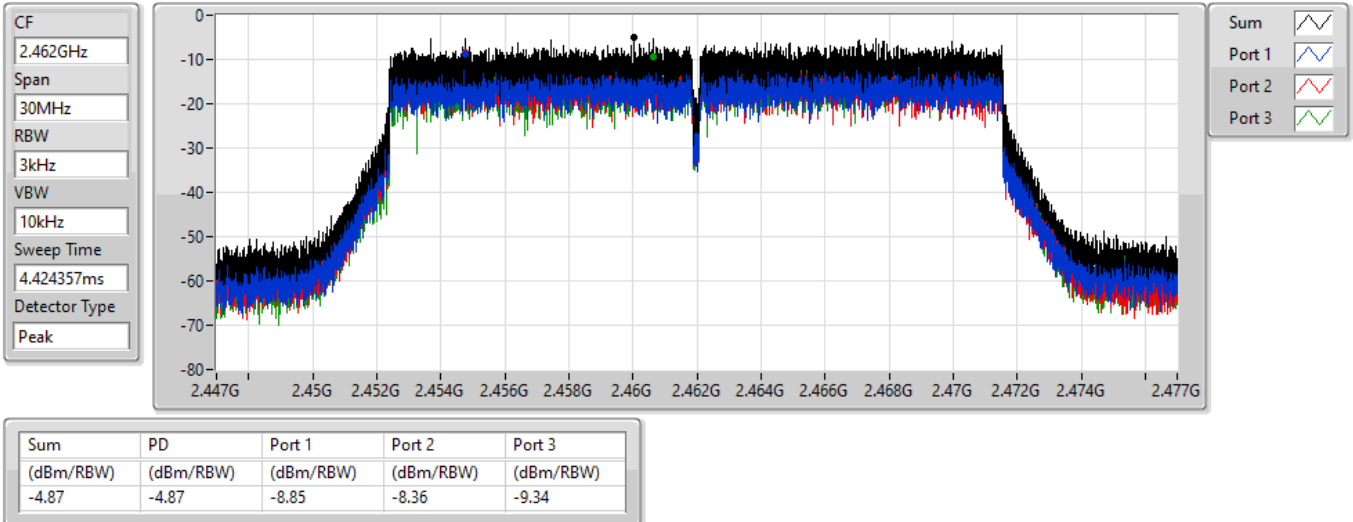


802.11ax HEW20_Nss1,(MCS0)_3TX

PSD

2462MHz

08/06/2022

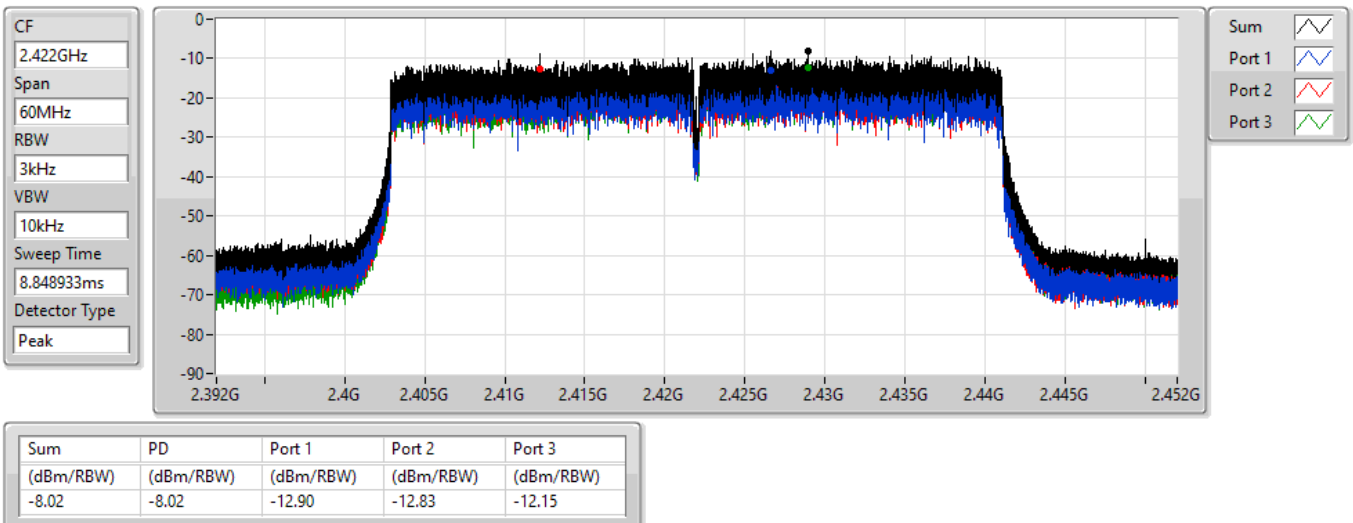


802.11ax HEW40_Nss1,(MCS0)_3TX

PSD

2422MHz

08/06/2022

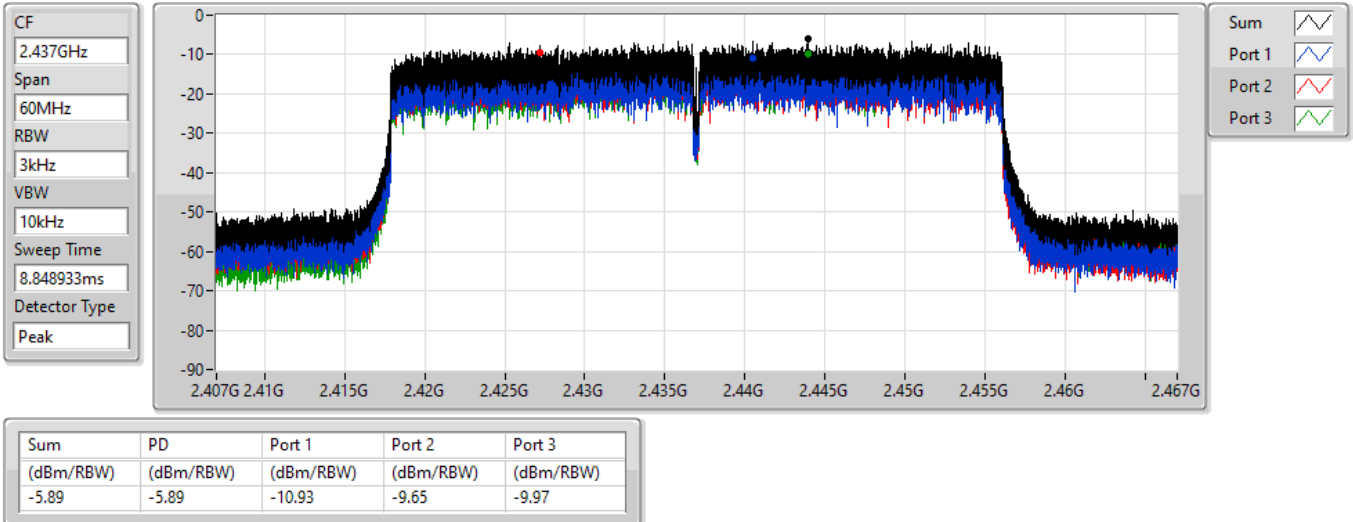


802.11ax HEW40_Nss1,(MCS0)_3TX

PSD

2437MHz

08/06/2022

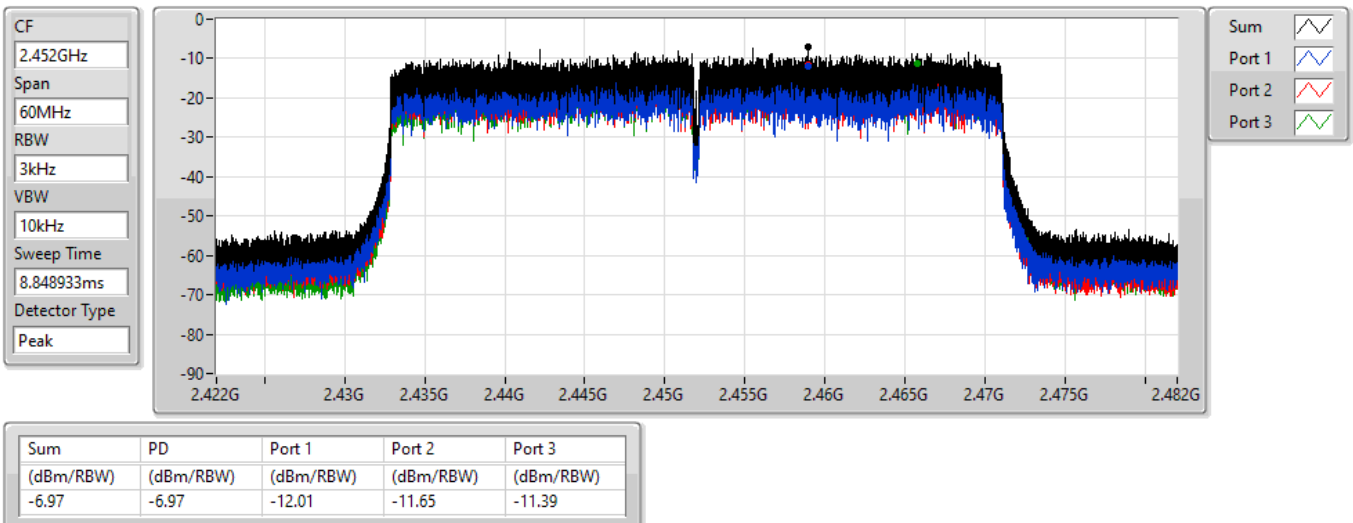


802.11ax HEW40_Nss1,(MCS0)_3TX

PSD

2452MHz

08/06/2022





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)_3TX	Pass	2.43749G	15.98	-14.02	2.30961G	-49.52	2.4G	-27.49	2.4G	-27.75	2.51098G	-44.80	7.23514G	-33.89	2
802.11g_Nss1,(6Mbps)_3TX	Pass	2.44446G	12.55	-17.45	2.30874G	-51.76	2.39982G	-31.61	2.4G	-33.33	2.52302G	-48.86	7.23233G	-44.76	2
802.11ax HEW20_Nss1,(MCS0)_3TX	Pass	2.44196G	12.54	-17.46	768.61M	-51.68	2.39966G	-31.29	2.4G	-39.38	2.5127G	-49.80	7.23233G	-45.73	2
802.11ax HEW40_Nss1,(MCS0)_3TX	Pass	2.45198G	4.52	-25.48	2.10674G	-52.25	2.39972G	-39.83	2.4G	-41.61	2.48362G	-47.19	6.3749G	-50.29	2

Result

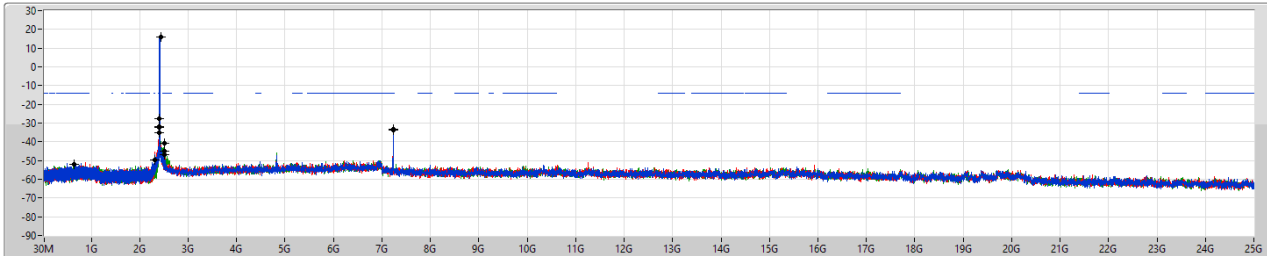
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1(1Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43749G	15.98	-14.02	2.30583G	-49.77	2.39998G	-32.09	2.4G	-32.31	2.5115G	-46.81	7.23514G	-33.50	1
2412MHz	Pass	2.43749G	15.98	-14.02	2.30961G	-49.52	2.4G	-27.49	2.4G	-27.75	2.51098G	-44.80	7.23514G	-33.89	2
2412MHz	Pass	2.43749G	15.98	-14.02	650.65M	-52.11	2.39898G	-32.24	2.4G	-35.02	2.51102G	-40.69	7.23795G	-33.90	3
2437MHz	Pass	2.43749G	15.98	-14.02	2.30932G	-52.21	2.3913G	-46.33	2.4835G	-48.13	2.48586G	-46.09	6.95699G	-49.94	1
2437MHz	Pass	2.43749G	15.98	-14.02	855.99M	-51.49	2.39026G	-46.99	2.4G	-47.57	2.49148G	-46.84	2.56002G	-49.37	2
2437MHz	Pass	2.43749G	15.98	-14.02	863.85M	-51.89	2.39184G	-49.24	2.4835G	-44.83	2.49088G	-43.09	2.54317G	-46.00	3
2462MHz	Pass	2.43749G	15.98	-14.02	2.30204G	-51.39	2.39288G	-48.14	2.4835G	-47.24	2.48776G	-44.87	2.56002G	-48.53	1
2462MHz	Pass	2.43749G	15.98	-14.02	2.30874G	-51.54	2.39906G	-49.09	2.4835G	-48.42	2.48964G	-45.75	2.56283G	-45.52	2
2462MHz	Pass	2.43749G	15.98	-14.02	930.25M	-52.14	2.3998G	-51.33	2.4835G	-45.54	2.50778G	-42.32	2.54598G	-45.27	3
802.11g_Nss1(6Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44446G	12.55	-17.45	2.30758G	-51.04	2.39998G	-33.96	2.4G	-34.75	2.50946G	-48.99	7.23795G	-43.77	1
2412MHz	Pass	2.44446G	12.55	-17.45	2.30874G	-51.76	2.39982G	-31.61	2.4G	-33.33	2.52302G	-48.86	7.23233G	-44.76	2
2412MHz	Pass	2.44446G	12.55	-17.45	812.3M	-52.03	2.39888G	-32.49	2.4G	-36.92	2.50506G	-43.74	7.23795G	-43.92	3
2437MHz	Pass	2.44446G	12.55	-17.45	2.30787G	-49.73	2.3979G	-39.90	2.4G	-44.40	2.48474G	-43.23	6.98789G	-49.46	1
2437MHz	Pass	2.44446G	12.55	-17.45	2.30845G	-51.60	2.39946G	-39.27	2.4G	-41.93	2.48382G	-43.70	2.54036G	-49.25	2
2437MHz	Pass	2.44446G	12.55	-17.45	668.42M	-51.80	2.3973G	-39.43	2.4835G	-39.01	2.48568G	-34.96	2.54879G	-42.83	3
2462MHz	Pass	2.44446G	12.55	-17.45	1.89051G	-51.87	2.39334G	-50.05	2.4835G	-43.03	2.484G	-42.58	6.37822G	-50.64	1
2462MHz	Pass	2.44446G	12.55	-17.45	2.30903G	-52.73	2.39146G	-49.60	2.4835G	-44.17	2.48382G	-42.14	6.32484G	-49.54	2
2462MHz	Pass	2.44446G	12.55	-17.45	1.98895G	-52.55	2.39686G	-52.07	2.4835G	-43.94	2.4838G	-39.00	2.53193G	-46.94	3
802.11ax HEW20_Nss1(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44196G	12.54	-17.46	2.30787G	-52.02	2.39988G	-31.40	2.4G	-33.09	2.50618G	-50.12	7.23514G	-45.58	1
2412MHz	Pass	2.44196G	12.54	-17.46	768.61M	-51.68	2.39966G	-31.29	2.4G	-39.38	2.5127G	-49.80	7.23233G	-45.73	2
2412MHz	Pass	2.44196G	12.54	-17.46	779.39M	-51.88	2.3999G	-31.42	2.4G	-32.47	2.50774G	-44.71	7.24076G	-45.01	3
2437MHz	Pass	2.44196G	12.54	-17.46	2.30321G	-50.31	2.39824G	-40.12	2.4G	-42.29	2.48538G	-43.83	2.52912G	-48.94	1
2437MHz	Pass	2.44196G	12.54	-17.46	377.17M	-51.14	2.3987G	-37.68	2.4G	-41.42	2.48484G	-43.89	2.53474G	-49.55	2
2437MHz	Pass	2.44196G	12.54	-17.46	821.91M	-52.99	2.39896G	-38.22	2.4835G	-39.39	2.48384G	-36.42	2.53474G	-43.35	3
2462MHz	Pass	2.44196G	12.54	-17.46	632.31M	-50.87	2.3905G	-51.48	2.4835G	-42.29	2.48362G	-41.66	6.95137G	-50.05	1
2462MHz	Pass	2.44196G	12.54	-17.46	640.17M	-51.80	2.3985G	-50.01	2.4835G	-48.44	2.4835G	-41.90	6.02421G	-49.77	2
2462MHz	Pass	2.44196G	12.54	-17.46	879.29M	-52.18	2.39246G	-52.11	2.4835G	-38.46	2.48386G	-38.19	2.56283G	-47.99	3
802.11ax HEW40_Nss1(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.45198G	4.52	-25.48	569.58M	-52.15	2.4G	-44.06	2.4G	-46.71	2.48538G	-50.34	6.97508G	-50.33	1
2422MHz	Pass	2.45198G	4.52	-25.48	824.92M	-52.13	2.39664G	-43.97	2.4G	-46.98	2.5119G	-51.20	6.99751G	-49.67	2
2422MHz	Pass	2.45198G	4.52	-25.48	681.51M	-52.21	2.39936G	-47.12	2.4G	-48.59	2.53002G	-46.80	2.57191G	-50.00	3
2437MHz	Pass	2.45198G	4.52	-25.48	2.30168G	-51.87	2.3996G	-41.82	2.4G	-44.77	2.48362G	-46.84	6.51232G	-50.08	1
2437MHz	Pass	2.45198G	4.52	-25.48	2.10674G	-52.25	2.39972G	-39.83	2.4G	-41.61	2.48362G	-47.19	6.3749G	-50.29	2
2437MHz	Pass	2.45198G	4.52	-25.48	660.04M	-51.32	2.3982G	-43.99	2.4835G	-44.74	2.48562G	-42.14	2.5635G	-47.40	3
2452MHz	Pass	2.45198G	4.52	-25.48	292.21M	-52.40	2.39728G	-50.48	2.4835G	-47.91	2.48446G	-42.38	5.19418G	-50.33	1
2452MHz	Pass	2.45198G	4.52	-25.48	646.3M	-51.81	2.3906G	-49.12	2.4835G	-46.89	2.4845G	-45.54	6.77315G	-50.25	2
2452MHz	Pass	2.45198G	4.52	-25.48	774.25M	-51.81	2.39968G	-52.53	2.4835G	-47.95	2.4855G	-43.19	2.57472G	-48.87	3

802.11b_Nss1,(1Mbps)_3TX

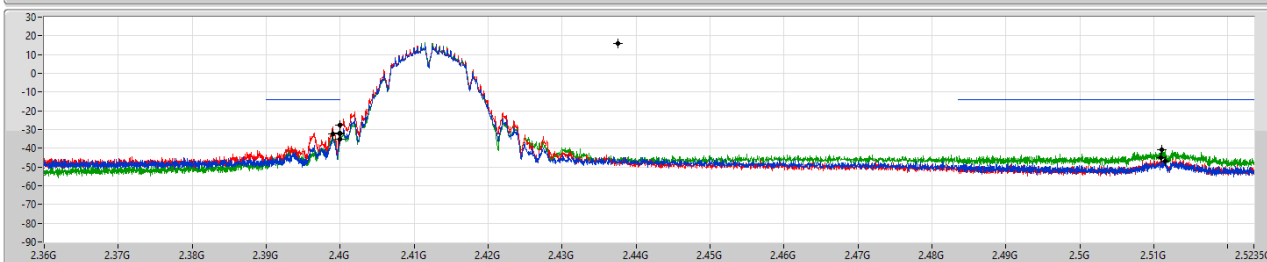
2412MHz

CSENdB

08/06/2022



Port 1
Port 2
Port 3



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

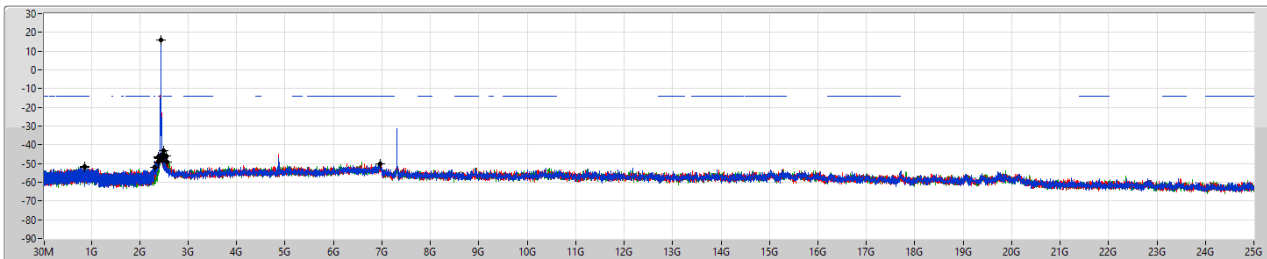
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43749G	15.98	-14.02	2.30583G	-49.77	2.39998G	-32.09	2.4G	-32.31	2.5115G	-46.81	7.23514G	-33.50	1
2.43749G	15.98	-14.02	2.30961G	-49.52	2.4G	-27.49	2.4G	-27.75	2.51098G	-44.80	7.23514G	-33.89	2
2.43749G	15.98	-14.02	650.65M	-52.11	2.39898G	-32.24	2.4G	-35.02	2.51102G	-40.69	7.23795G	-33.90	3

802.11b_Nss1,(1Mbps)_3TX

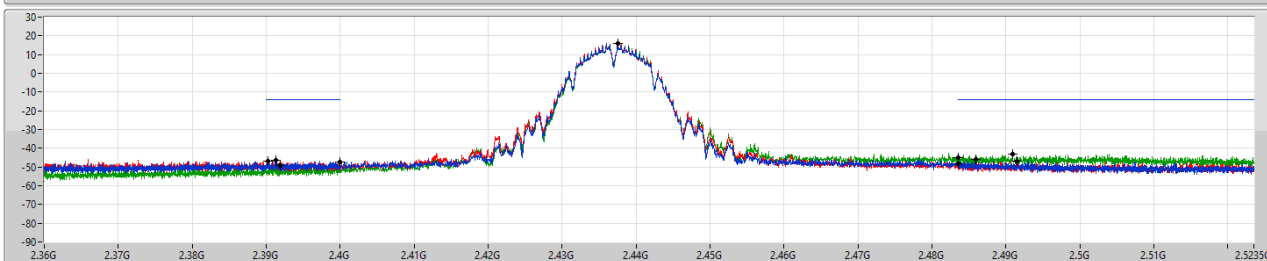
2437MHz

CSENdB

08/06/2022



Port 1
Port 2
Port 3



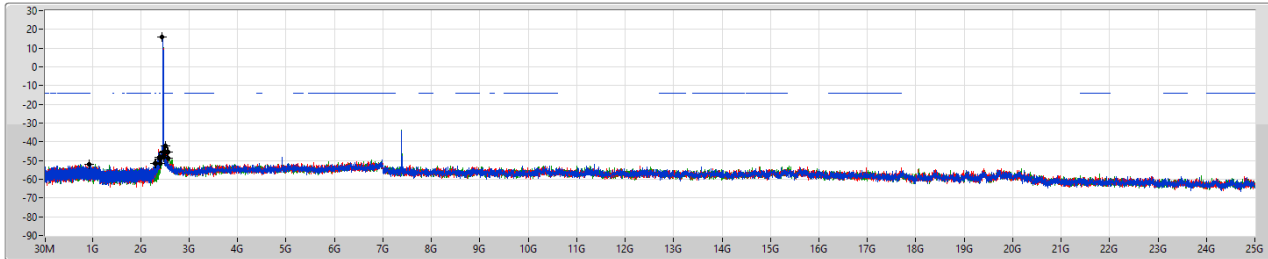
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43749G	15.98	-14.02	2.30932G	-52.21	2.3913G	-46.33	2.4835G	-48.13	2.48586G	-46.09	6.95699G	-49.94	1
2.43749G	15.98	-14.02	855.99M	-51.49	2.39026G	-46.99	2.4G	-47.57	2.49148G	-46.84	2.56002G	-49.37	2
2.43749G	15.98	-14.02	863.85M	-51.89	2.39184G	-49.24	2.4835G	-44.83	2.49088G	-43.09	2.54317G	-46.00	3

802.11b_Nss1,(1Mbps)_3TX

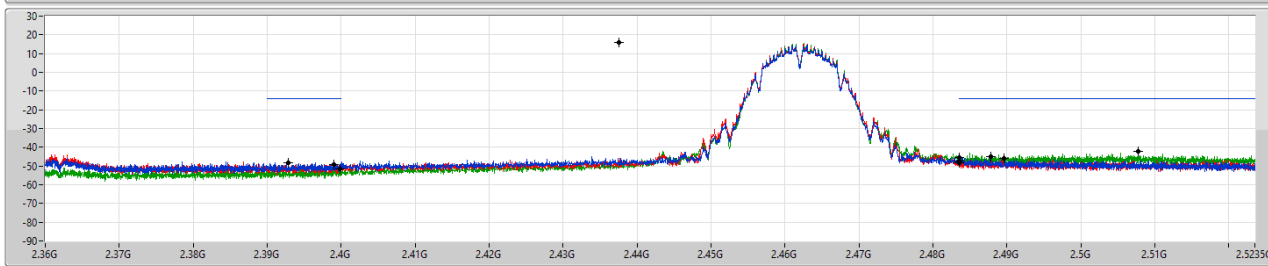
CSENdB

2462MHz



08/06/2022
Port 1
Port 2
Port 3

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

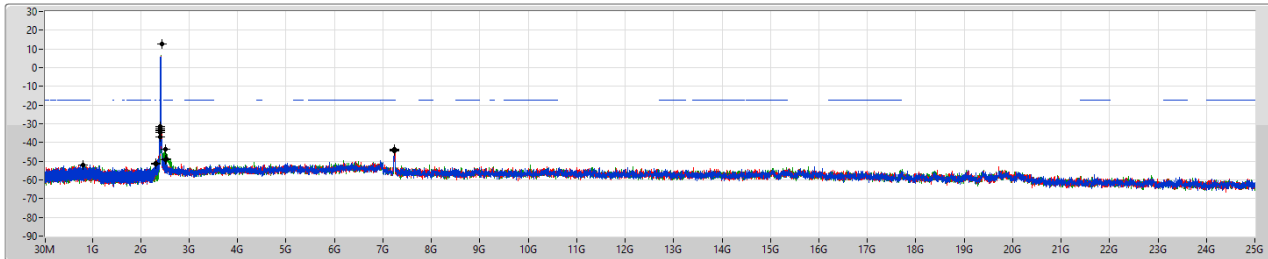


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43749G	15.98	-14.02	2.30204G	-51.39	2.39288G	-48.14	2.4835G	-47.24	2.48776G	-44.87	2.56002G	-48.53	1
2.43749G	15.98	-14.02	2.30874G	-51.54	2.39906G	-49.09	2.4835G	-48.42	2.48964G	-45.75	2.56283G	-45.52	2
2.43749G	15.98	-14.02	930.25M	-52.14	2.3998G	-51.33	2.4835G	-45.54	2.50778G	-42.32	2.54598G	-45.27	3

802.11g_Nss1,(6Mbps)_3TX

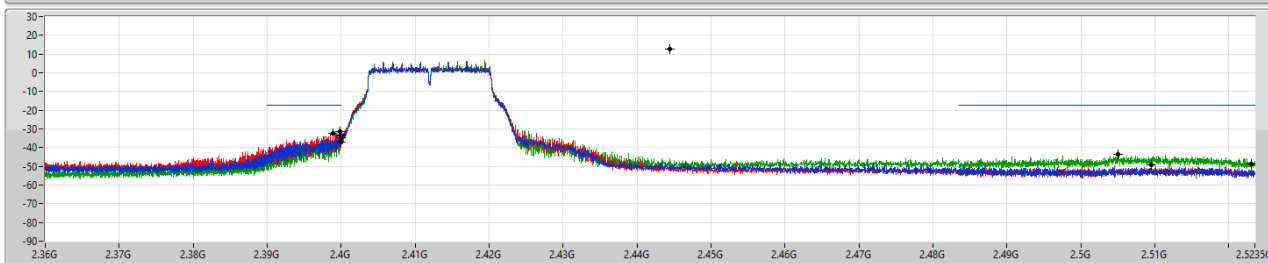
CSENdB

2412MHz



08/06/2022
Port 1
Port 2
Port 3

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



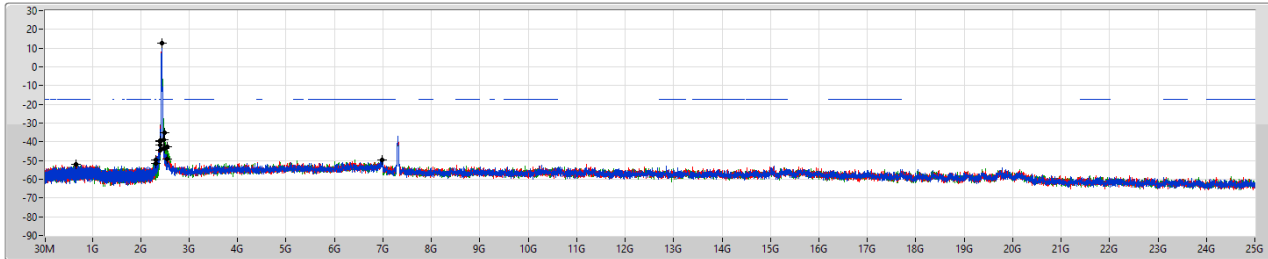
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44446G	12.55	-17.45	2.30758G	-51.04	2.39998G	-33.96	2.4G	-34.75	2.50946G	-48.99	7.23795G	-43.77	1
2.44446G	12.55	-17.45	2.30874G	-51.76	2.39982G	-31.61	2.4G	-33.33	2.52302G	-48.86	7.23233G	-44.76	2
2.44446G	12.55	-17.45	812.3M	-52.03	2.39888G	-32.49	2.4G	-36.92	2.50506G	-43.74	7.23795G	-43.92	3

802.11g_Nss1,(6Mbps)_3TX

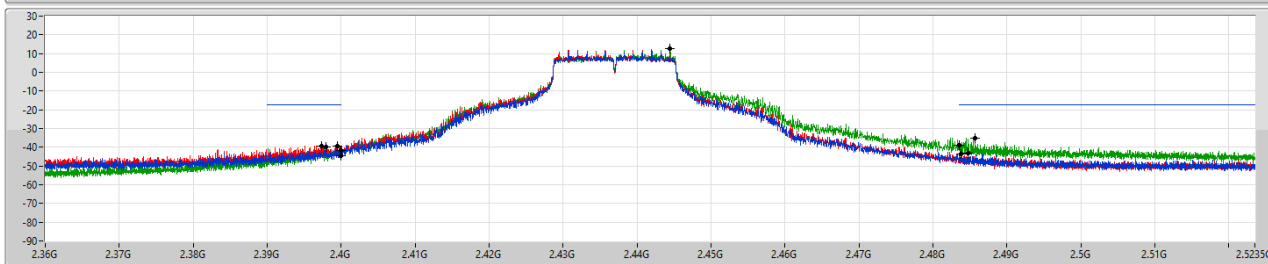
2437MHz

CSENdB

08/06/2022



Port 1
Port 2
Port 3



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

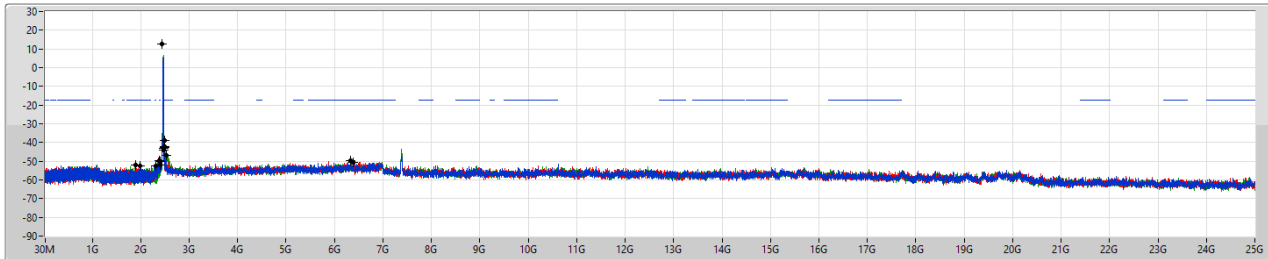
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44446G	12.55	-17.45	2.30787G	-49.73	2.3979G	-39.90	2.4G	-44.40	2.48474G	-43.23	6.98789G	-49.46	1
2.44446G	12.55	-17.45	2.30845G	-51.60	2.39946G	-39.27	2.4G	-41.93	2.48382G	-43.70	2.54036G	-49.25	2
2.44446G	12.55	-17.45	668.42M	-51.80	2.3973G	-39.43	2.4835G	-39.01	2.48568G	-34.96	2.54879G	-42.83	3

802.11g_Nss1,(6Mbps)_3TX

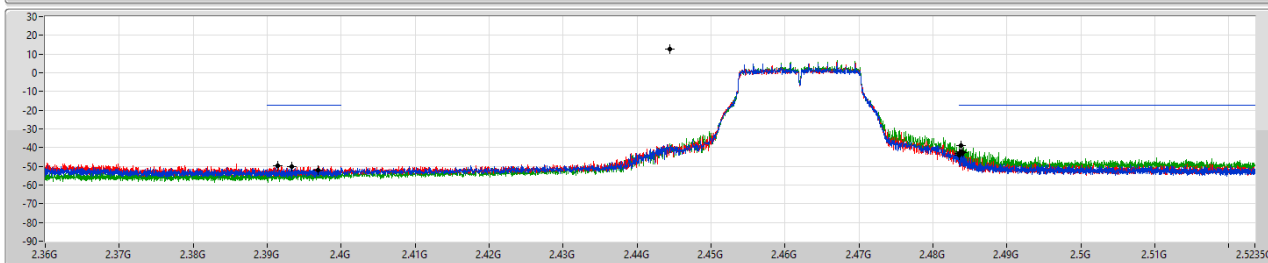
2462MHz

CSENdB

08/06/2022



Port 1
Port 2
Port 3



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

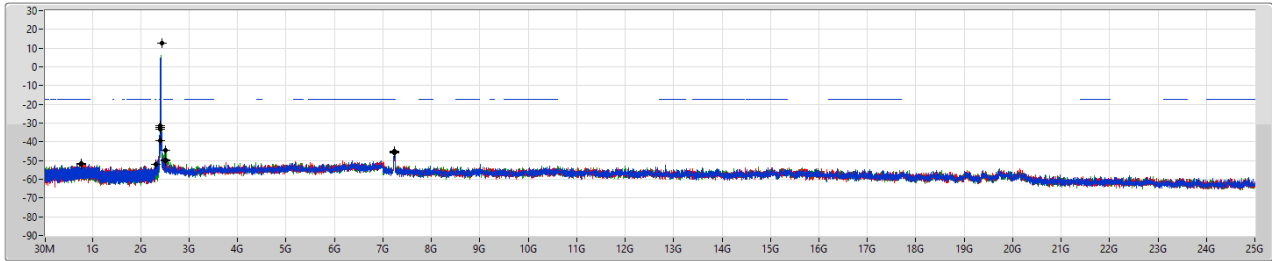
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44446G	12.55	-17.45	1.89051G	-51.87	2.39334G	-50.05	2.4835G	-43.03	2.484G	-42.58	6.37822G	-50.64	1
2.44446G	12.55	-17.45	2.30903G	-52.73	2.39146G	-49.60	2.4835G	-44.17	2.48382G	-42.14	6.32484G	-49.54	2
2.44446G	12.55	-17.45	1.98895G	-52.55	2.39686G	-52.07	2.4835G	-43.94	2.4838G	-39.00	2.53193G	-46.94	3

802.11ax HEW20_Nss1,(MCS0)_3TX

2412MHz

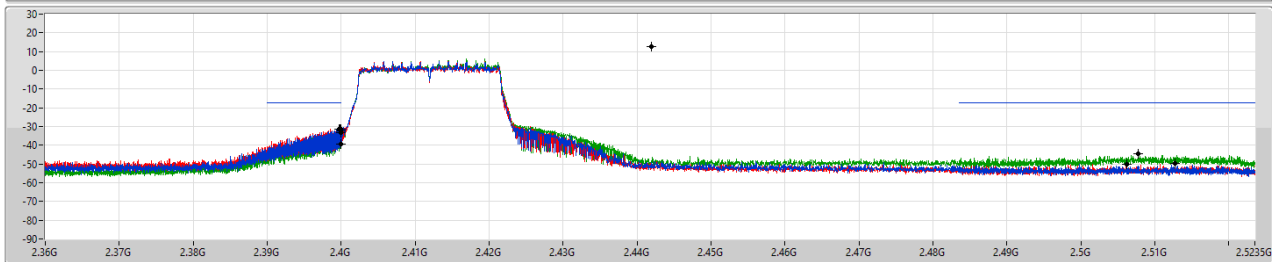
CSENdB

08/06/2022



Port 1
Port 2
Port 3

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



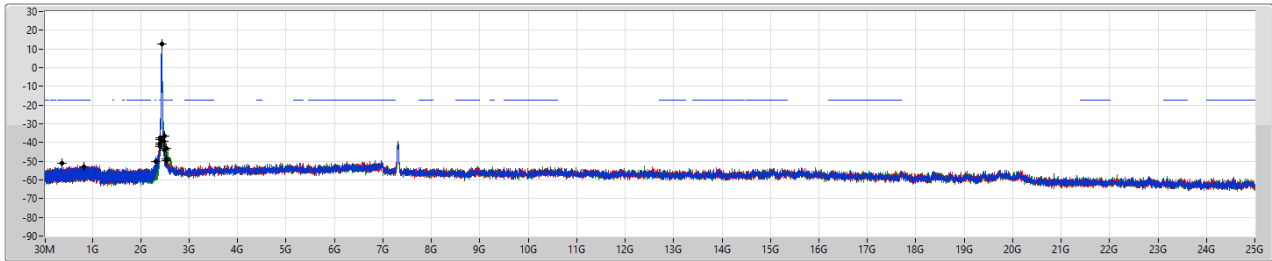
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44196G	12.54	-17.46	2.30787G	-52.02	2.39988G	-31.40	2.4G	-33.09	2.50618G	-50.12	7.23514G	-45.58	1
2.44196G	12.54	-17.46	768.61M	-51.68	2.39966G	-31.29	2.4G	-39.38	2.5127G	-49.80	7.23233G	-45.73	2
2.44196G	12.54	-17.46	779.39M	-51.88	2.3999G	-31.42	2.4G	-32.47	2.50774G	-44.71	7.24076G	-45.01	3

802.11ax HEW20_Nss1,(MCS0)_3TX

2437MHz

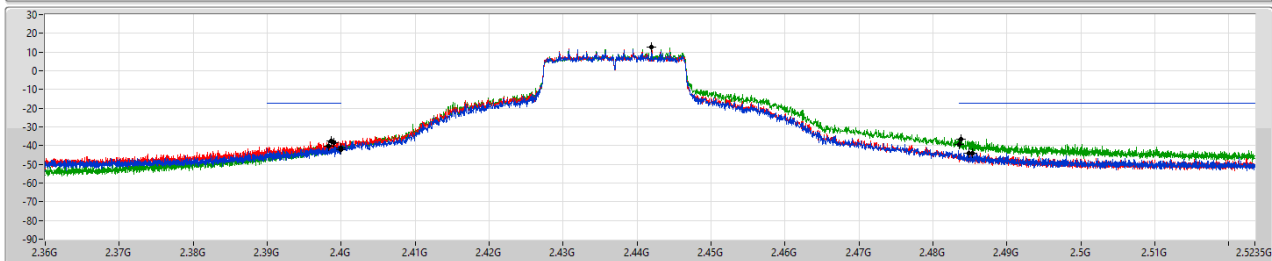
CSENdB

08/06/2022



Port 1
Port 2
Port 3

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44196G	12.54	-17.46	2.30321G	-50.31	2.39824G	-40.12	2.4G	-42.29	2.48538G	-43.83	2.52912G	-48.94	1
2.44196G	12.54	-17.46	377.17M	-51.14	2.3987G	-37.68	2.4G	-41.42	2.48484G	-43.89	2.53474G	-49.55	2
2.44196G	12.54	-17.46	821.91M	-52.99	2.39896G	-38.22	2.4835G	-39.39	2.48384G	-36.42	2.53474G	-43.35	3

802.11ax HEW20_Nss1,(MCS0)_3TX

CSENdb

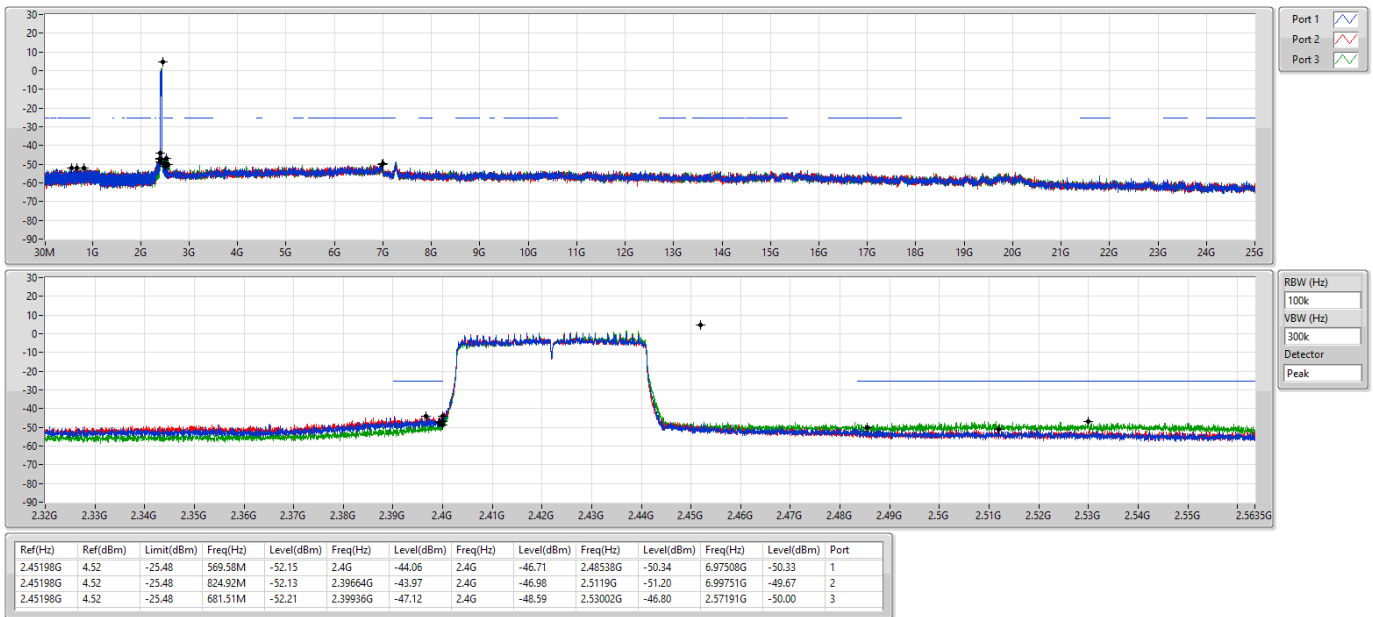
2462MHz



802.11ax HEW40_Nss1,(MCS0)_3TX

CSENdb

2422MHz

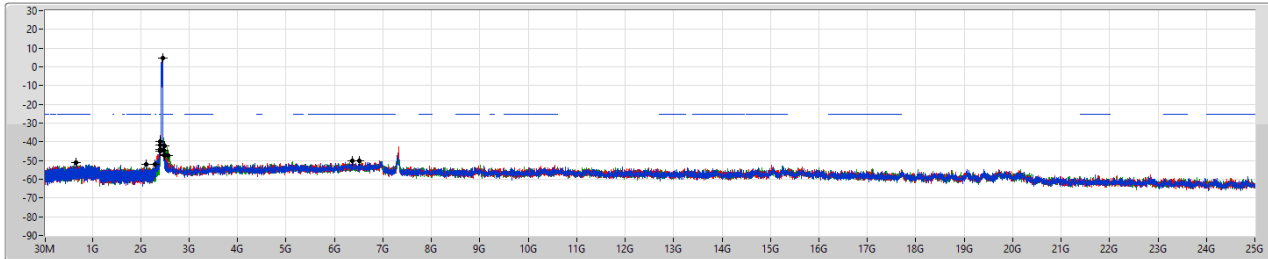


802.11ax HEW40_Nss1,(MCS0)_3TX

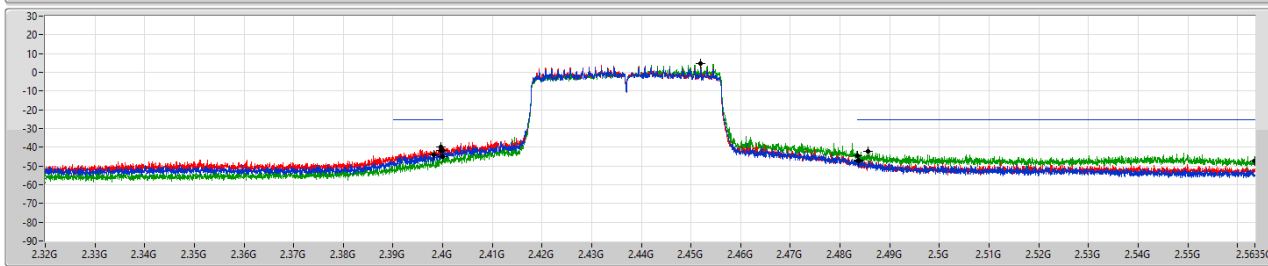
2437MHz

CSENdB

08/06/2022



Port 1
Port 2
Port 3



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

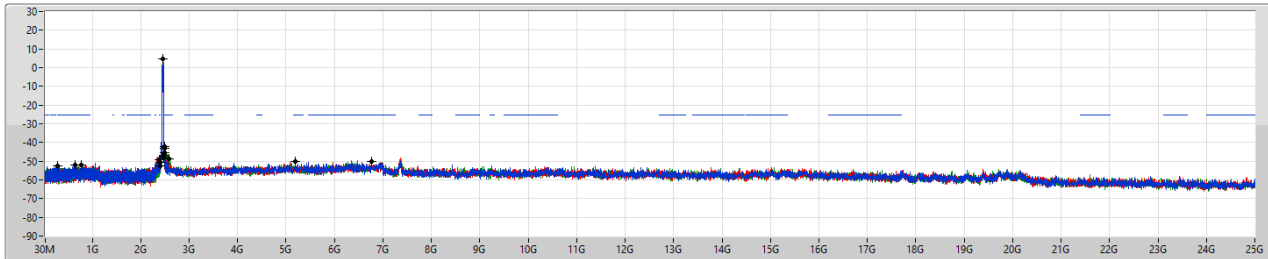
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.45198G	4.52	-25.48	2.30168G	-51.87	2.3996G	-41.82	2.4G	-44.77	2.48362G	-46.84	6.51232G	-50.08	1
2.45198G	4.52	-25.48	2.10674G	-52.25	2.39972G	-39.83	2.4G	-41.61	2.48362G	-47.19	6.3749G	-50.29	2
2.45198G	4.52	-25.48	660.04M	-51.32	2.3982G	-43.99	2.4835G	-44.74	2.48562G	-42.14	2.5635G	-47.40	3

802.11ax HEW40_Nss1,(MCS0)_3TX

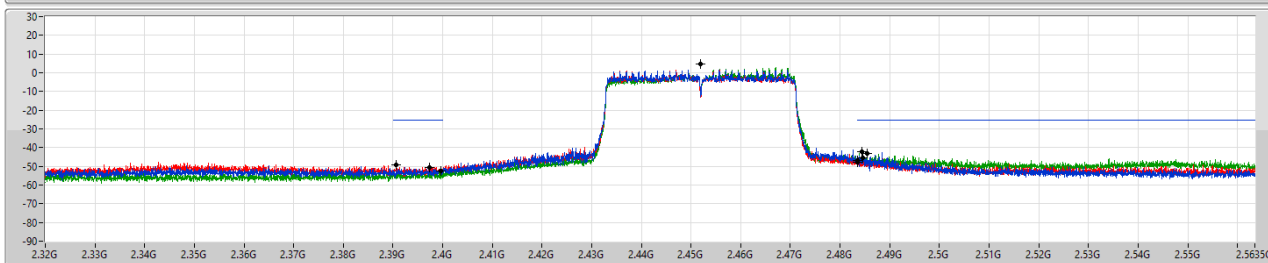
2452MHz

CSENdB

08/06/2022



Port 1
Port 2
Port 3



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.45198G	4.52	-25.48	292.21M	-52.40	2.39728G	-50.48	2.4835G	-47.91	2.48446G	-42.38	5.19418G	-50.33	1
2.45198G	4.52	-25.48	646.3M	-51.81	2.3906G	-49.12	2.4835G	-46.89	2.4845G	-45.54	6.77315G	-50.25	2
2.45198G	4.52	-25.48	774.25M	-51.81	2.39968G	-52.53	2.4835G	-47.95	2.4855G	-43.19	2.57472G	-48.87	3



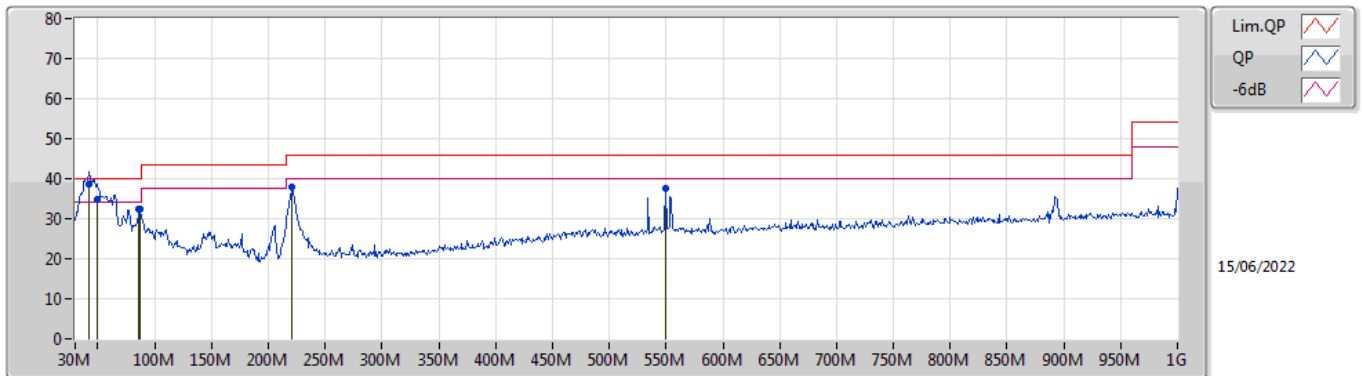
Radiated Emissions below 1GHz

Appendix F.1

Summary

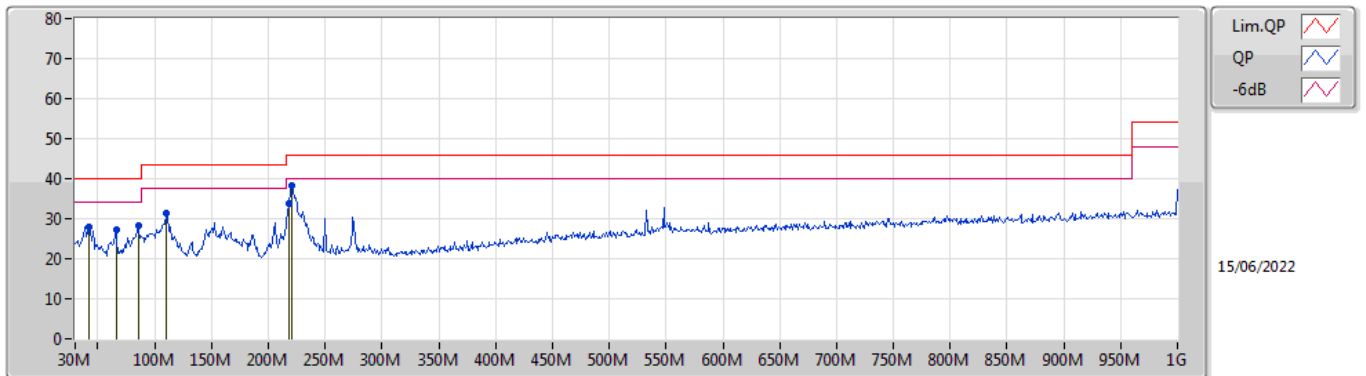
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	41.64M	38.66	40.00	-1.34	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	41.64M	38.66	40.00	-1.34	-13.14	3	Vertical	245	1.00	"Worst"	51.80	17.71	0.93	31.78
QP	49.4M	34.91	40.00	-5.09	-16.49	3	Vertical	289	1.00	-	51.40	14.28	1.09	31.86
PK	86.26M	32.52	40.00	-7.48	-16.63	3	Vertical	62	1.00	-	49.15	13.89	1.43	31.95
PK	87.23M	32.44	40.00	-7.56	-16.49	3	Vertical	142	1.00	-	48.93	14.02	1.44	31.95
PK	221.09M	37.84	46.00	-8.16	-14.63	3	Vertical	172	1.25	-	52.47	15.05	2.33	32.01
PK	549.92M	37.55	46.00	-8.45	-4.10	3	Vertical	207	1.00	-	41.65	24.48	3.80	32.38

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	41.64M	28.08	40.00	-11.92	-13.14	3	Horizontal	52	1.50	-	41.22	17.71	0.93	31.78
PK	65.89M	27.10	40.00	-12.90	-18.56	3	Horizontal	60	3.00	-	45.66	12.16	1.22	31.94
PK	85.29M	28.17	40.00	-11.83	-16.83	3	Horizontal	62	2.00	-	45.00	13.70	1.41	31.94
PK	110.51M	31.21	43.50	-12.29	-12.81	3	Horizontal	87	3.00	-	44.02	17.61	1.55	31.97
PK	218.18M	33.86	46.00	-12.14	-14.81	3	Horizontal	239	1.25	-	48.67	14.89	2.31	32.01
PK	221.09M	38.42	46.00	-7.58	-14.63	3	Horizontal	239	1.25	"Worst"	53.05	15.05	2.33	32.01

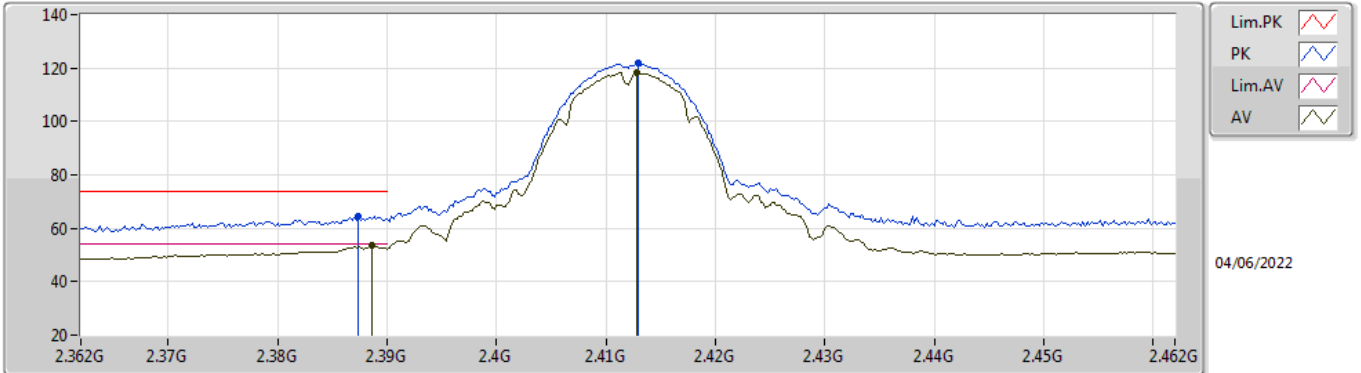


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_3TX	Pass	PK	2.4838G	73.93	74.00	-0.07	3	Horizontal	274	1.95	-

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

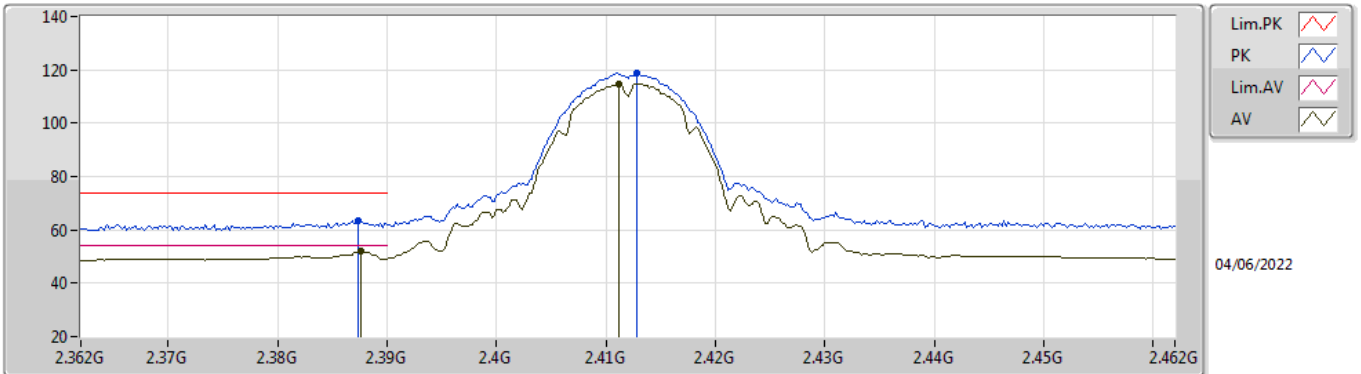


EUT V_3TX
Setting 98
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3874G	64.38	74.00	-9.62	33.22	3	Vertical	82	2.14	-	28.37	2.79	-
AV	2.3886G	53.80	54.00	-0.20	22.63	3	Vertical	82	2.14	-	28.38	2.79	-
PK	2.413G	121.91	Inf	-Inf	90.70	3	Vertical	82	2.14	-	28.40	2.81	-
AV	2.4128G	118.26	Inf	-Inf	87.05	3	Vertical	82	2.14	-	28.40	2.81	-

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

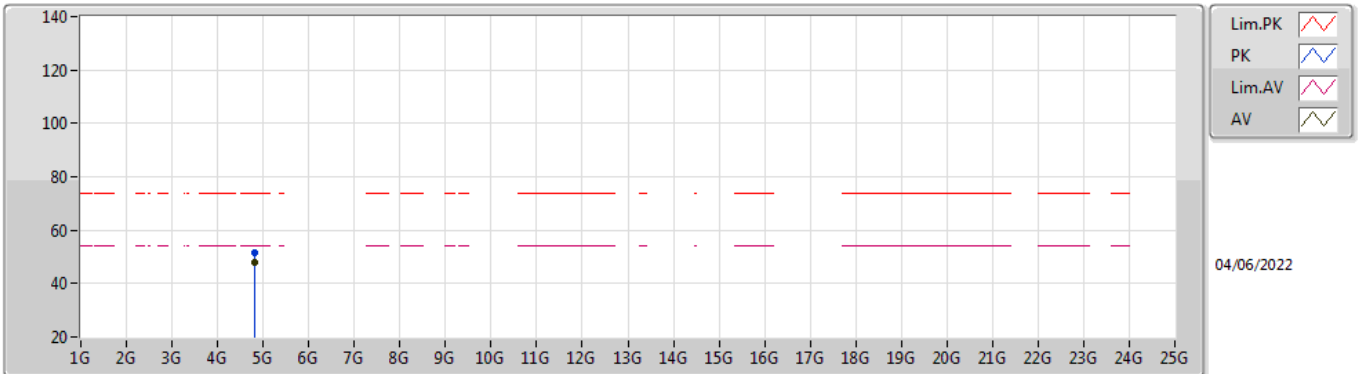


EUT Y_3TX
Setting 98
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3874G	63.47	74.00	-10.53	32.31	3	Horizontal	277	1.83	-	28.37	2.79	-	
AV	2.3876G	51.90	54.00	-2.10	20.73	3	Horizontal	277	1.83	-	28.38	2.79	-	
PK	2.4128G	118.75	Inf	-Inf	87.54	3	Horizontal	277	1.83	-	28.40	2.81	-	
AV	2.4112G	114.87	Inf	-Inf	83.66	3	Horizontal	277	1.83	-	28.40	2.81	-	

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

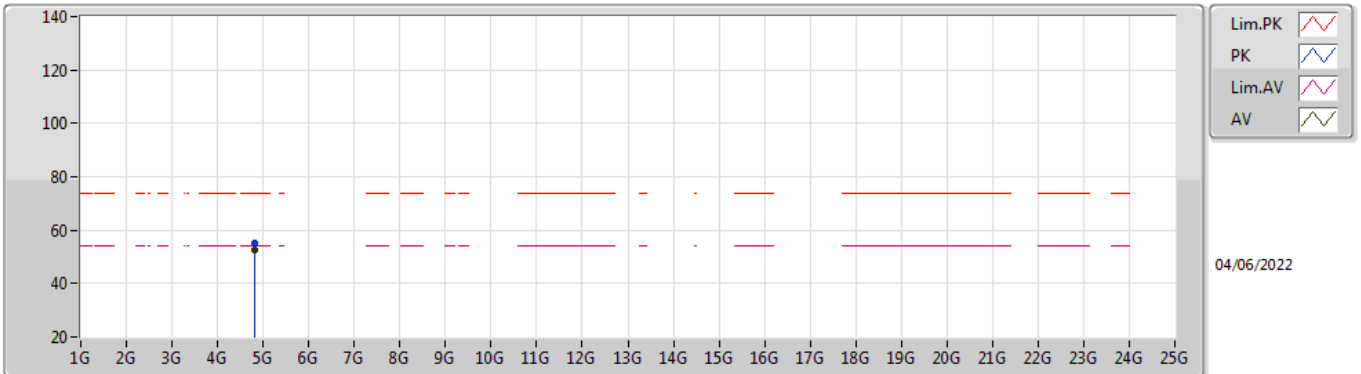


EUT Y_3TX
Setting 98
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82396G	51.52	74.00	-22.48	45.70	3	Vertical	63	2.94	-	32.94	5.10	32.22
AV	4.82392G	48.07	54.00	-5.93	42.25	3	Vertical	63	2.94	-	32.94	5.10	32.22

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

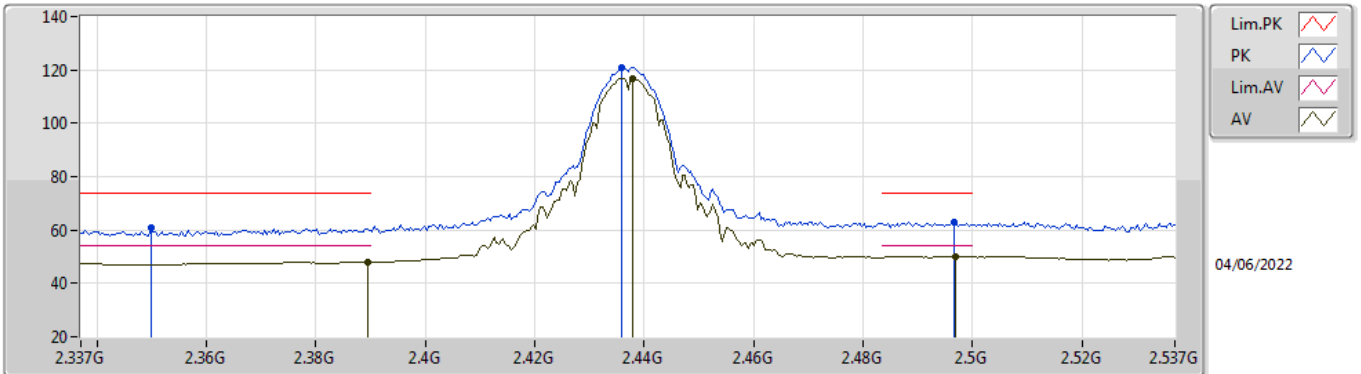


EUT Y_3TX
Setting 98
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82392G	55.02	74.00	-18.98	49.20	3	Horizontal	32	2.17	-	32.94	5.10	32.22
AV	4.82396G	52.80	54.00	-1.20	46.98	3	Horizontal	32	2.17	-	32.94	5.10	32.22

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

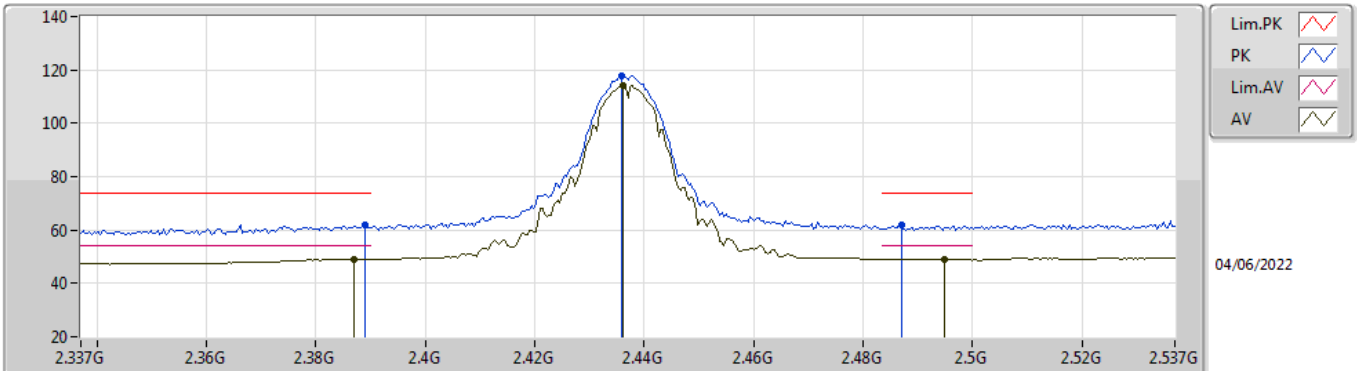


EUT_Y_3TX
Setting 100
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3498G	60.75	74.00	-13.25	29.68	3	Vertical	299	1.97	-	28.30	2.77	-
AV	2.3894G	47.97	54.00	-6.03	16.80	3	Vertical	299	1.97	-	28.38	2.79	-
PK	2.4358G	120.92	Inf	-Inf	89.68	3	Vertical	299	1.97	-	28.40	2.84	-
AV	2.4378G	116.78	Inf	-Inf	85.54	3	Vertical	299	1.97	-	28.40	2.84	-
PK	2.4966G	63.17	74.00	-10.83	31.68	3	Vertical	299	1.97	-	28.59	2.90	-
AV	2.497G	50.15	54.00	-3.85	18.66	3	Vertical	299	1.97	-	28.59	2.90	-

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

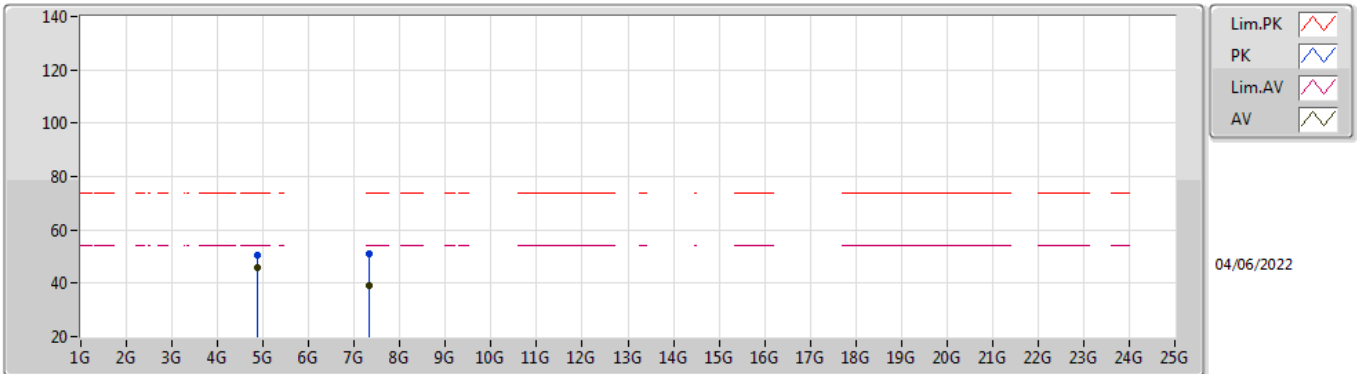


EUT_Y_3TX
Setting 100
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	61.85	74.00	-12.15	30.68	3	Horizontal	120	2.13	-	28.38	2.79	-
AV	2.387G	49.09	54.00	-4.91	17.93	3	Horizontal	120	2.13	-	28.37	2.79	-
PK	2.4358G	117.90	Inf	-Inf	86.66	3	Horizontal	120	2.13	-	28.40	2.84	-
AV	2.4362G	114.16	Inf	-Inf	82.92	3	Horizontal	120	2.13	-	28.40	2.84	-
PK	2.487G	61.85	74.00	-12.15	30.41	3	Horizontal	120	2.13	-	28.55	2.89	-
AV	2.495G	49.00	54.00	-5.00	17.52	3	Horizontal	120	2.13	-	28.58	2.90	-

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

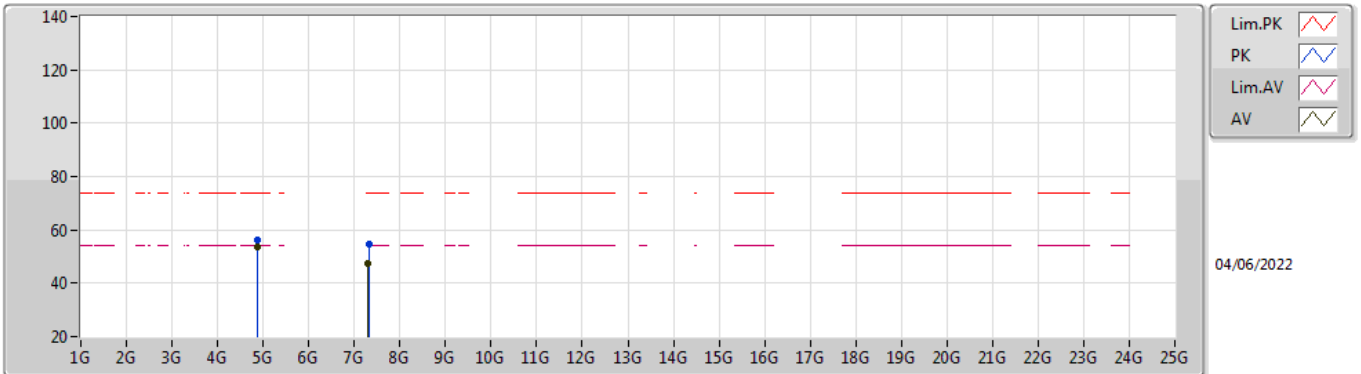


EUT Y_3TX
Setting 100
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87392G	50.43	74.00	-23.57	44.39	3	Vertical	70	3.00	-	33.15	5.10	32.21
AV	4.87392G	45.66	54.00	-8.34	39.62	3	Vertical	70	3.00	-	33.15	5.10	32.21
PK	7.31166G	50.87	74.00	-23.13	41.10	3	Vertical	121	2.06	-	36.43	6.16	32.82
AV	7.31166G	39.01	54.00	-14.99	29.25	3	Vertical	121	2.06	-	36.42	6.16	32.82

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

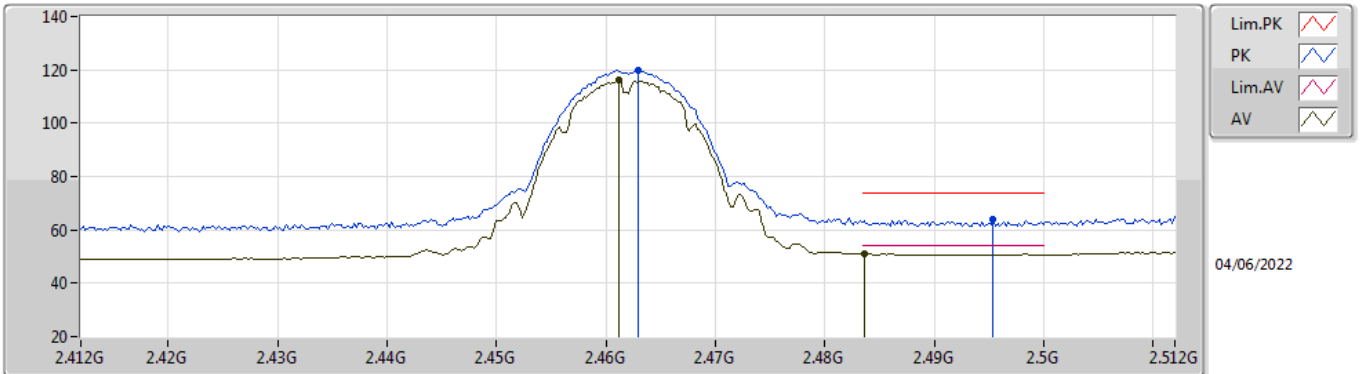


EUT Y_3TX
Setting 100
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87392G	56.23	74.00	-17.77	50.19	3	Horizontal	34	2.23	-	33.15	5.10	32.21
AV	4.87396G	53.82	54.00	-0.18	47.78	3	Horizontal	34	2.23	-	33.15	5.10	32.21
PK	7.31184G	54.61	74.00	-19.39	44.85	3	Horizontal	46	2.47	-	36.42	6.16	32.82
AV	7.31018G	47.62	54.00	-6.38	37.86	3	Horizontal	46	2.47	-	36.42	6.16	32.82

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

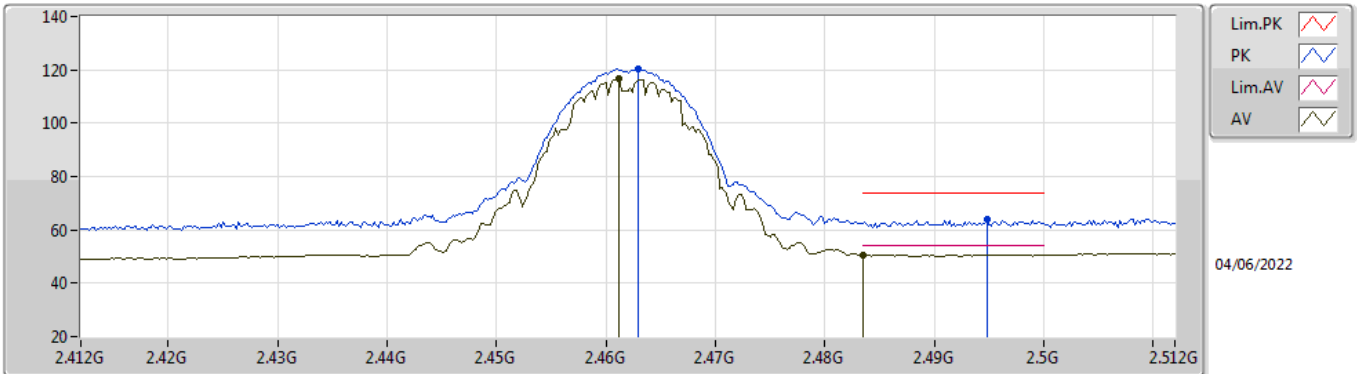


EUT Y_3TX
Setting 96
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.463G	119.89	Inf	-Inf	88.58	3	Vertical	145	2.12	-	28.45	2.86	-	
AV	2.4612G	115.99	Inf	-Inf	84.69	3	Vertical	145	2.12	-	28.44	2.86	-	
PK	2.4954G	63.79	74.00	-10.21	32.31	3	Vertical	145	2.12	-	28.58	2.90	-	
AV	2.4836G	50.93	54.00	-3.07	19.52	3	Vertical	145	2.12	-	28.53	2.88	-	

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

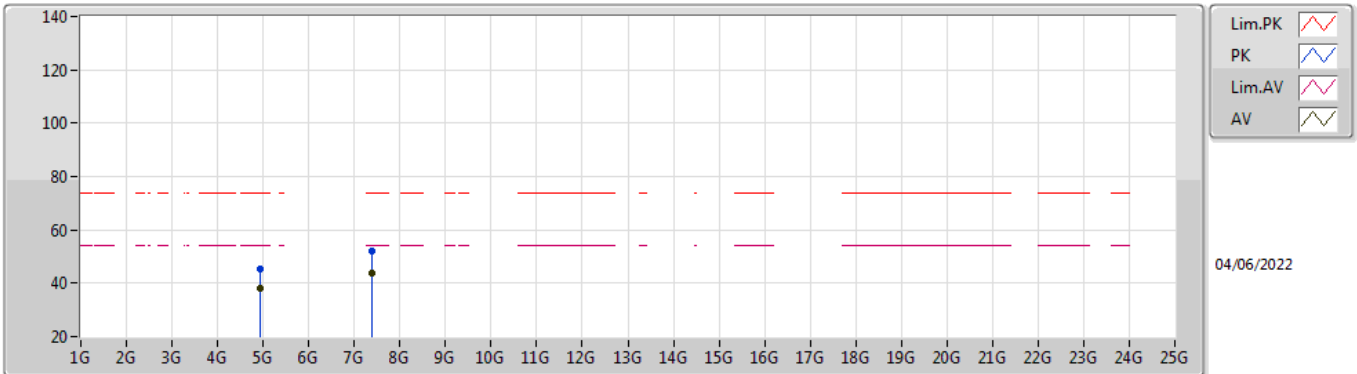


EUT Y_3TX
Setting 96
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	120.51	Inf	-Inf	89.20	3	Horizontal	232	1.91	-	28.45	2.86	-
AV	2.4612G	116.69	Inf	-Inf	85.39	3	Horizontal	232	1.91	-	28.44	2.86	-
PK	2.4948G	63.85	74.00	-10.15	32.38	3	Horizontal	232	1.91	-	28.58	2.89	-
AV	2.4835G	50.71	54.00	-3.29	19.30	3	Horizontal	232	1.91	-	28.53	2.88	-

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

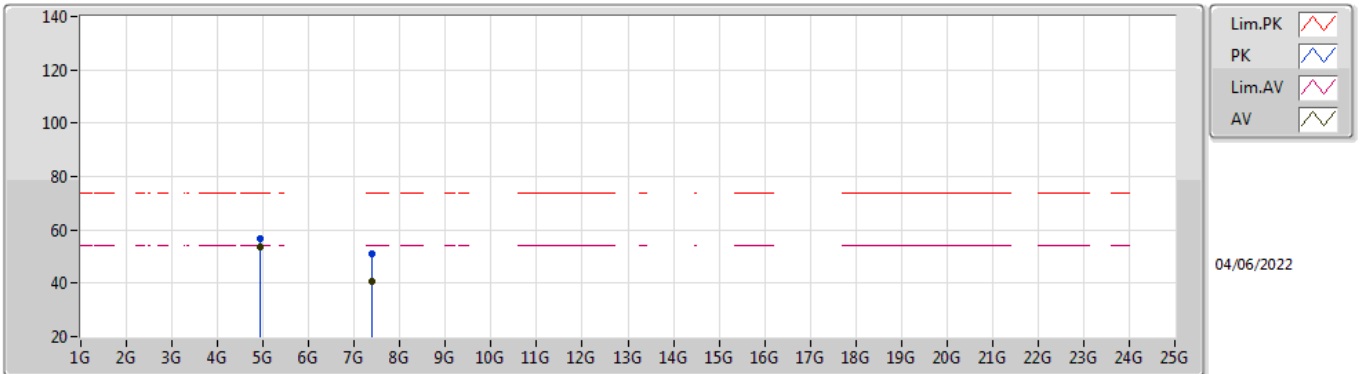


EUT Y_3TX
Setting 96
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92396G	45.35	74.00	-28.65	39.19	3	Vertical	163	1.79	-	33.25	5.10	32.19
AV	4.92396G	37.96	54.00	-16.04	31.80	3	Vertical	163	1.79	-	33.25	5.10	32.19
PK	7.38724G	52.30	74.00	-21.70	42.56	3	Vertical	121	2.11	-	36.50	6.19	32.95
AV	7.38668G	43.79	54.00	-10.21	34.05	3	Vertical	121	2.11	-	36.50	6.19	32.95

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

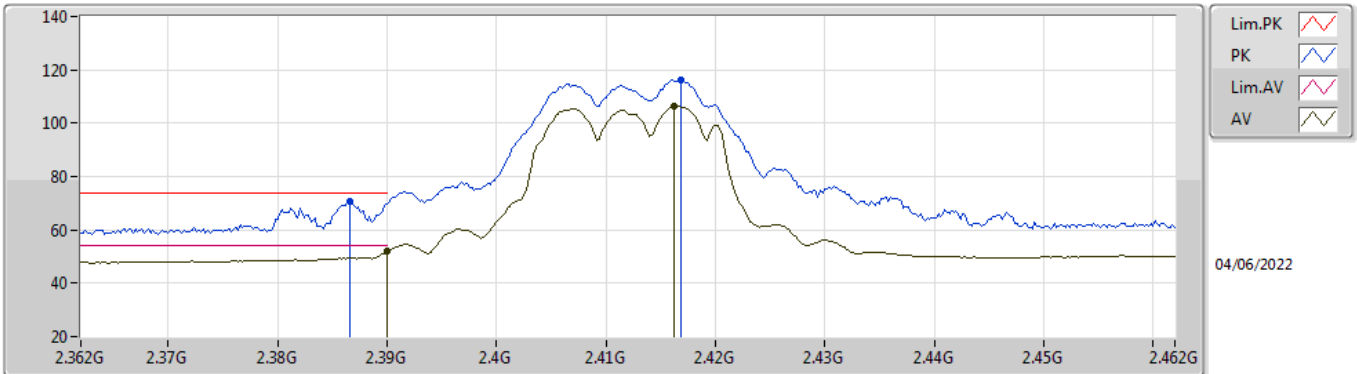


EUT Y_3TX
Setting 96
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92392G	56.52	74.00	-17.48	50.36	3	Horizontal	34	2.19	-	33.25	5.10	32.19
AV	4.92392G	53.79	54.00	-0.21	47.63	3	Horizontal	34	2.19	-	33.25	5.10	32.19
PK	7.38464G	51.06	74.00	-22.94	41.32	3	Horizontal	120	1.92	-	36.50	6.19	32.95
AV	7.38468G	40.74	54.00	-13.26	31.00	3	Horizontal	120	1.92	-	36.50	6.19	32.95

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

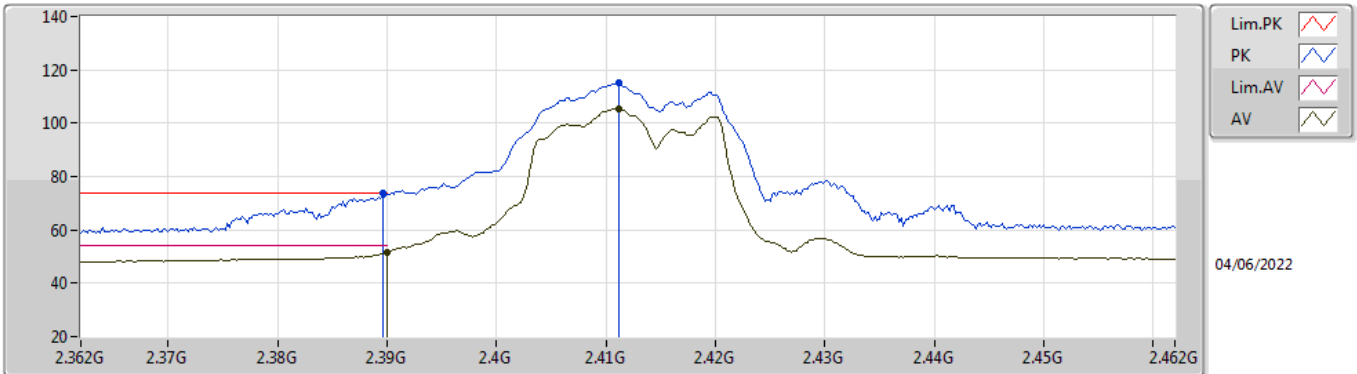


EUT Y_3TX
Setting 74
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3866G	70.56	74.00	-3.44	39.40	3	Vertical	266	2.16	-	28.37	2.79	-
AV	2.39G	52.06	54.00	-1.94	20.89	3	Vertical	266	2.16	-	28.38	2.79	-
PK	2.4168G	116.11	Inf	-Inf	84.89	3	Vertical	266	2.16	-	28.40	2.82	-
AV	2.4162G	106.51	Inf	-Inf	75.29	3	Vertical	266	2.16	-	28.40	2.82	-

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

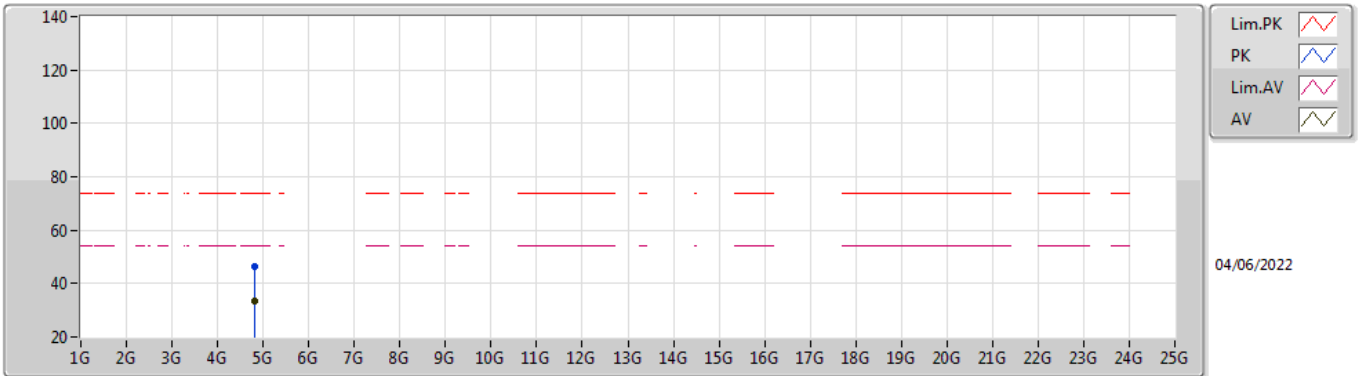


EUT Y_3TX
Setting 74
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	73.87	74.00	-0.13	42.70	3	Horizontal	219	1.78	-	28.38	2.79	-
AV	2.39G	51.59	54.00	-2.41	20.42	3	Horizontal	219	1.78	-	28.38	2.79	-
PK	2.4112G	115.05	Inf	-Inf	83.84	3	Horizontal	219	1.78	-	28.40	2.81	-
AV	2.4112G	105.33	Inf	-Inf	74.12	3	Horizontal	219	1.78	-	28.40	2.81	-

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

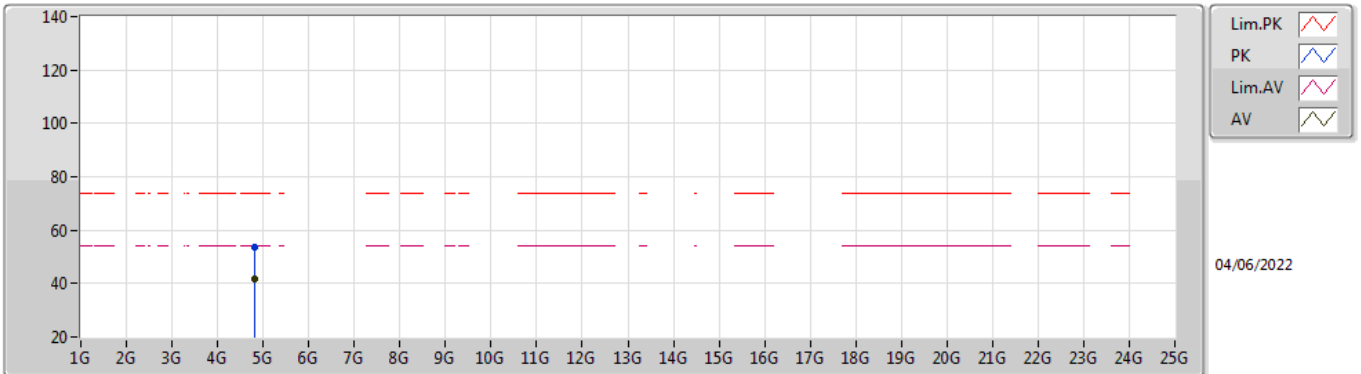


EUT Y_3TX
Setting 74
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.824G	46.25	74.00	-27.75	40.43	3	Vertical	218	2.03	-	32.94	5.10	32.22
AV	4.82264G	33.57	54.00	-20.43	27.75	3	Vertical	218	2.03	-	32.94	5.10	32.22

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

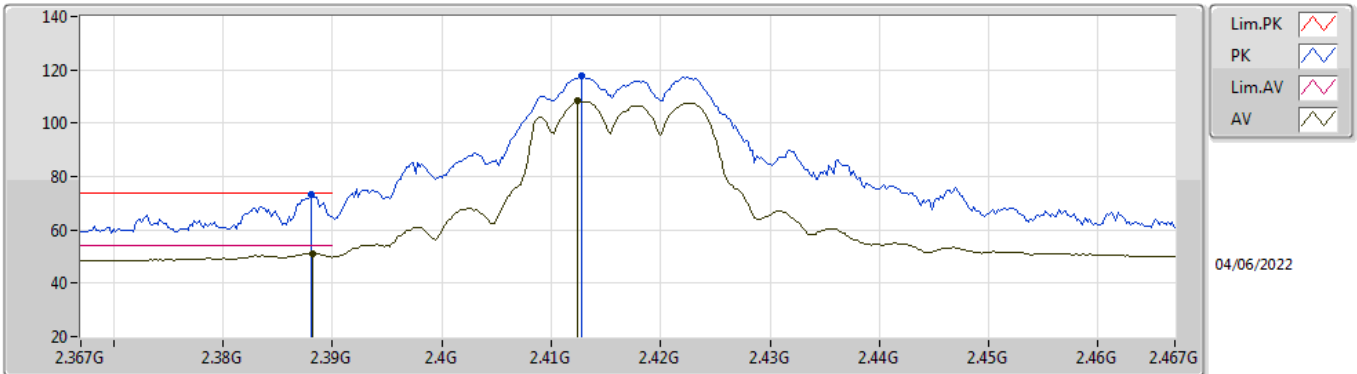


EUT Y_3TX
Setting 74
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.8233G	53.38	74.00	-20.62	47.56	3	Horizontal	32	2.16	-	32.94	5.10	32.22	
AV	4.82294G	41.59	54.00	-12.41	35.77	3	Horizontal	32	2.16	-	32.94	5.10	32.22	

802.11g_Nss1,(6Mbps)_3TX

2417MHz_TX

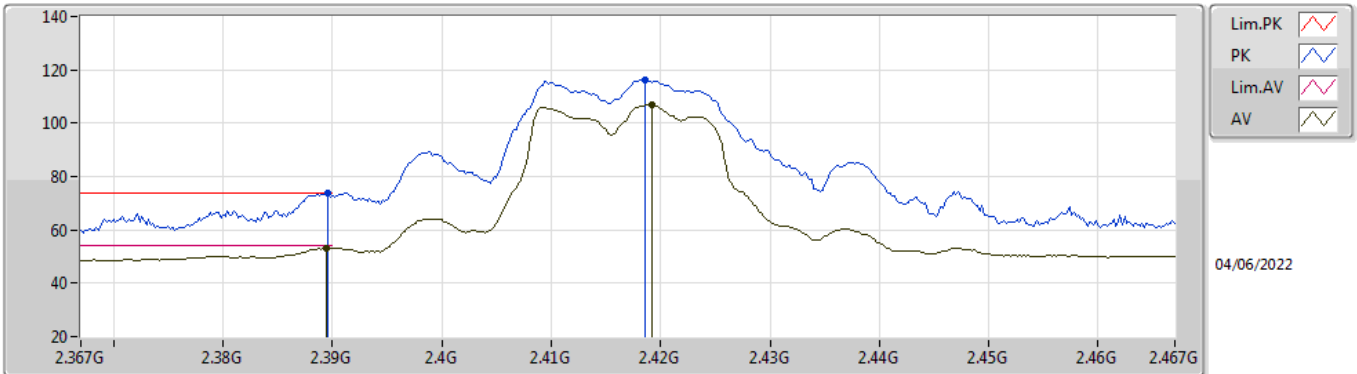


EUT Y_3TX
Setting 82
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	73.15	74.00	-0.85	41.98	3	Vertical	250	1.77	-	28.38	2.79	-
AV	2.3882G	51.27	54.00	-2.73	20.10	3	Vertical	250	1.77	-	28.38	2.79	-
PK	2.4128G	117.58	Inf	-Inf	86.37	3	Vertical	250	1.77	-	28.40	2.81	-
AV	2.4124G	108.20	Inf	-Inf	76.99	3	Vertical	250	1.77	-	28.40	2.81	-

802.11g_Nss1,(6Mbps)_3TX

2417MHz_TX

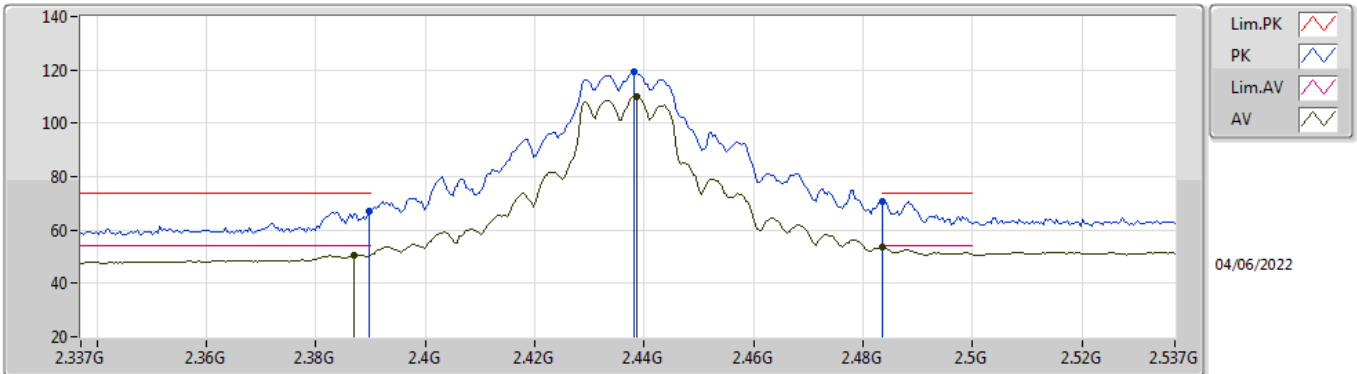


EUT Y_3TX
Setting 82
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	73.78	74.00	-0.22	42.61	3	Horizontal	219	1.73	-	28.38	2.79	-
AV	2.3894G	53.29	54.00	-0.71	22.12	3	Horizontal	219	1.73	-	28.38	2.79	-
PK	2.4186G	116.18	Inf	-Inf	84.96	3	Horizontal	219	1.73	-	28.40	2.82	-
AV	2.4192G	106.80	Inf	-Inf	75.58	3	Horizontal	219	1.73	-	28.40	2.82	-

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

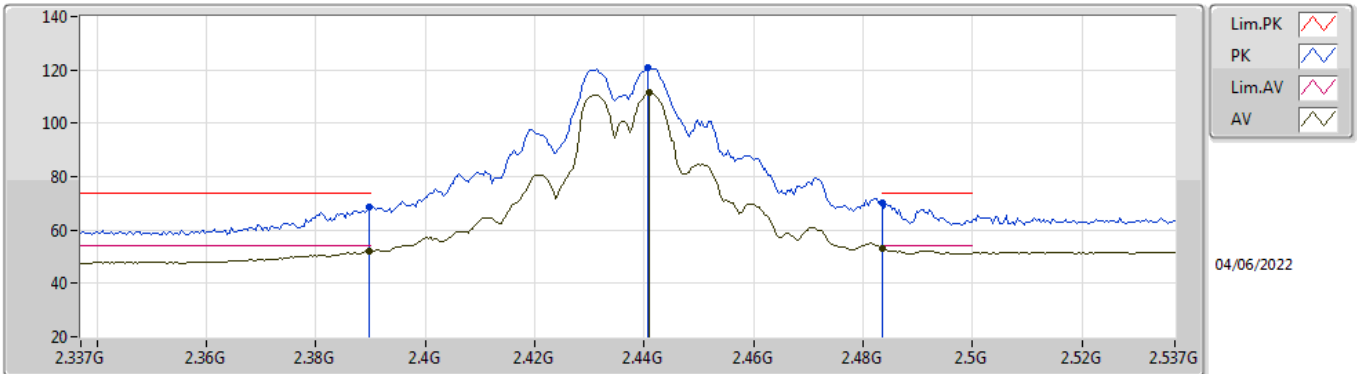


EUT_Y_3TX
Setting 98
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	67.27	74.00	-6.73	36.10	3	Vertical	285	1.78	-	28.38	2.79	-
AV	2.387G	50.61	54.00	-3.39	19.45	3	Vertical	285	1.78	-	28.37	2.79	-
PK	2.4382G	119.51	Inf	-Inf	88.27	3	Vertical	285	1.78	-	28.40	2.84	-
AV	2.4386G	109.97	Inf	-Inf	78.73	3	Vertical	285	1.78	-	28.40	2.84	-
PK	2.4835G	70.83	74.00	-3.17	39.42	3	Vertical	285	1.78	-	28.53	2.88	-
AV	2.4835G	53.84	54.00	-0.16	22.43	3	Vertical	285	1.78	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

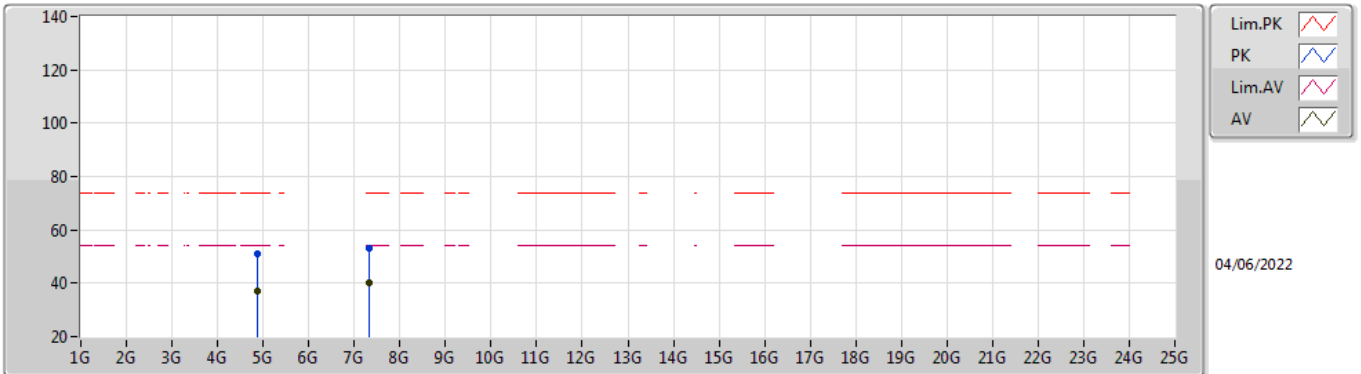


EUT_Y_3TX
Setting 98
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	68.80	74.00	-5.20	37.63	3	Horizontal	226	1.76	-	28.38	2.79	-
AV	2.3898G	51.96	54.00	-2.04	20.79	3	Horizontal	226	1.76	-	28.38	2.79	-
PK	2.4406G	121.00	Inf	-Inf	89.76	3	Horizontal	226	1.76	-	28.40	2.84	-
AV	2.441G	111.50	Inf	-Inf	80.26	3	Horizontal	226	1.76	-	28.40	2.84	-
PK	2.4835G	69.95	74.00	-4.05	38.54	3	Horizontal	226	1.76	-	28.53	2.88	-
AV	2.4835G	53.11	54.00	-0.89	21.70	3	Horizontal	226	1.76	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

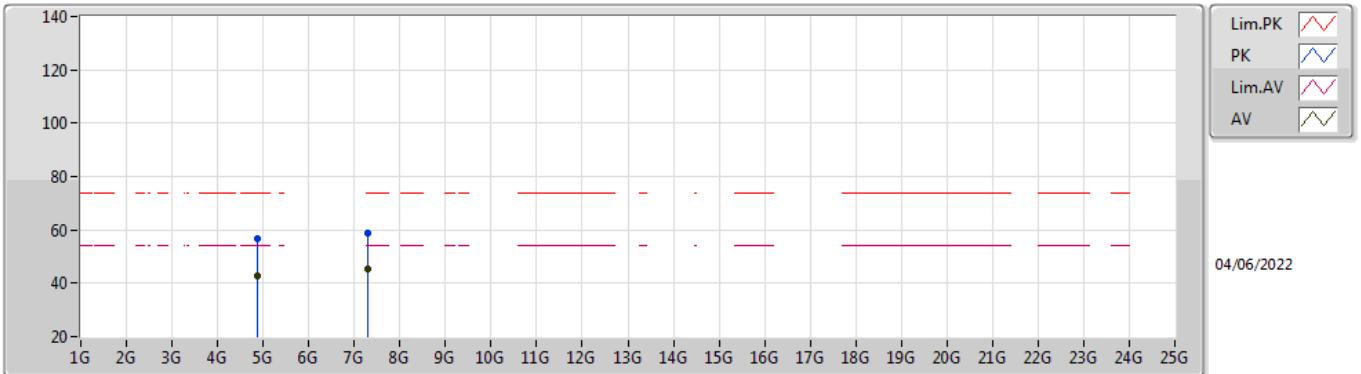


EUT_V_3TX
Setting 98
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87338G	50.93	74.00	-23.07	44.89	3	Vertical	82	2.73	-	33.15	5.10	32.21
AV	4.87316G	37.32	54.00	-16.68	31.28	3	Vertical	82	2.73	-	33.15	5.10	32.21
PK	7.31322G	53.36	74.00	-20.64	43.60	3	Vertical	118	2.08	-	36.43	6.16	32.83
AV	7.3142G	40.12	54.00	-13.88	30.36	3	Vertical	118	2.08	-	36.43	6.16	32.83

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

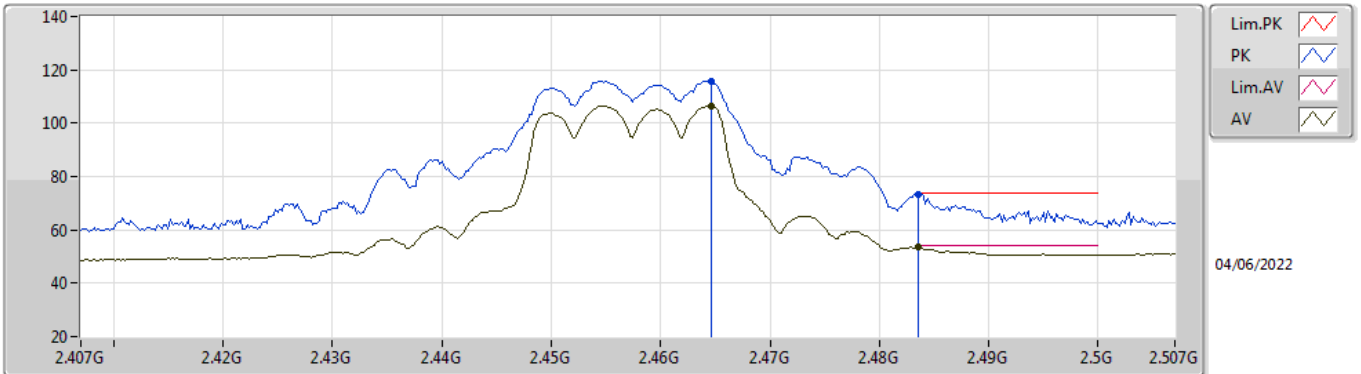


EUT V_3TX
Setting 98
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87332G	56.75	74.00	-17.25	50.71	3	Horizontal	34	2.24	-	33.15	5.10	32.21
AV	4.87308G	42.81	54.00	-11.19	36.77	3	Horizontal	34	2.24	-	33.15	5.10	32.21
PK	7.30734G	58.60	74.00	-15.40	48.85	3	Horizontal	36	2.09	-	36.41	6.15	32.81
AV	7.307G	45.41	54.00	-8.59	35.66	3	Horizontal	36	2.09	-	36.41	6.15	32.81

802.11g_Nss1,(6Mbps)_3TX

2457MHz_TX

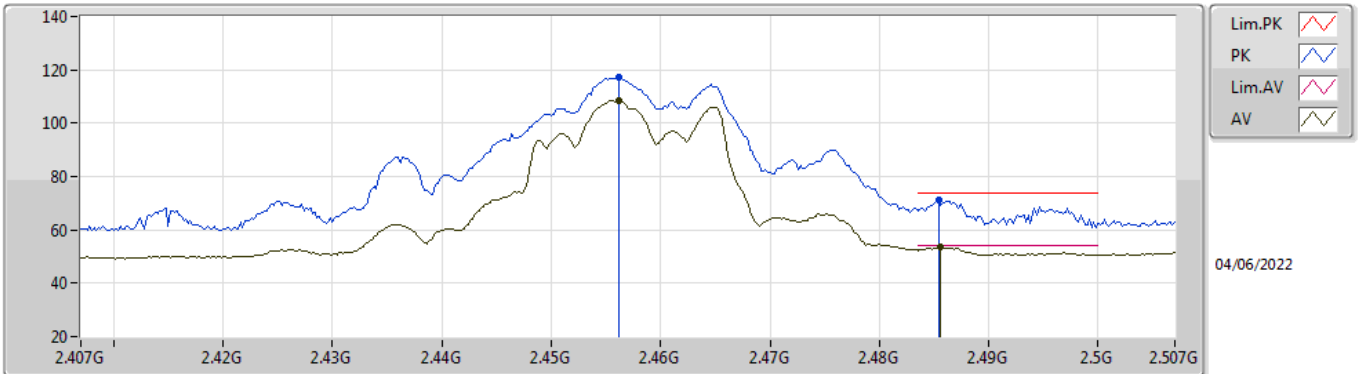


EUT Y_3TX
Setting 81
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4646G	115.84	Inf	-Inf	84.52	3	Vertical	246	1.73	-	28.46	2.86	-
AV	2.4646G	106.47	Inf	-Inf	75.15	3	Vertical	246	1.73	-	28.46	2.86	-
PK	2.4835G	73.20	74.00	-0.80	41.79	3	Vertical	246	1.73	-	28.53	2.88	-
AV	2.4835G	53.47	54.00	-0.53	22.06	3	Vertical	246	1.73	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_3TX

2457MHz_TX

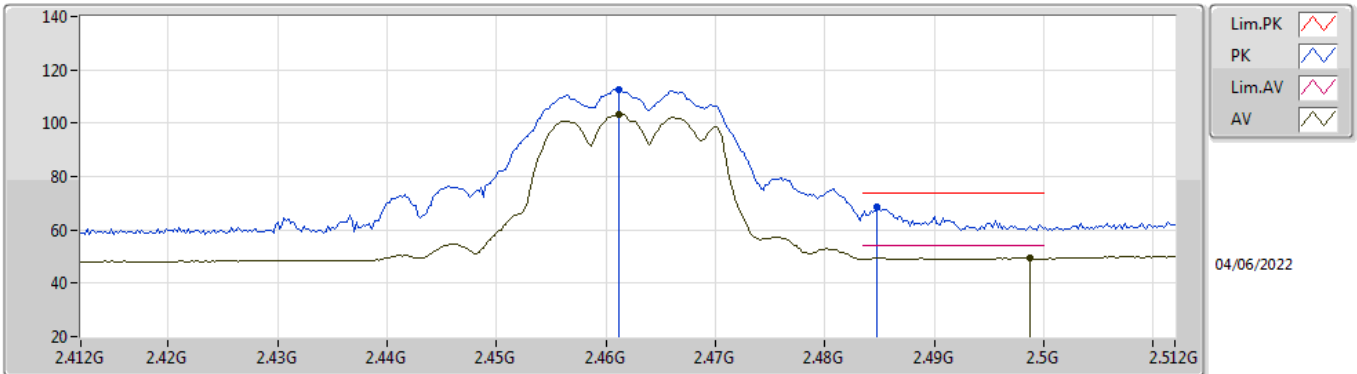


EUT Y_3TX
Setting 81
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4562G	117.16	Inf	-Inf	85.88	3	Horizontal	220	1.92	-	28.42	2.86	-
AV	2.4562G	108.33	Inf	-Inf	77.05	3	Horizontal	220	1.92	-	28.42	2.86	-
PK	2.4854G	71.38	74.00	-2.62	39.95	3	Horizontal	220	1.92	-	28.54	2.89	-
AV	2.4856G	53.80	54.00	-0.20	22.37	3	Horizontal	220	1.92	-	28.54	2.89	-

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

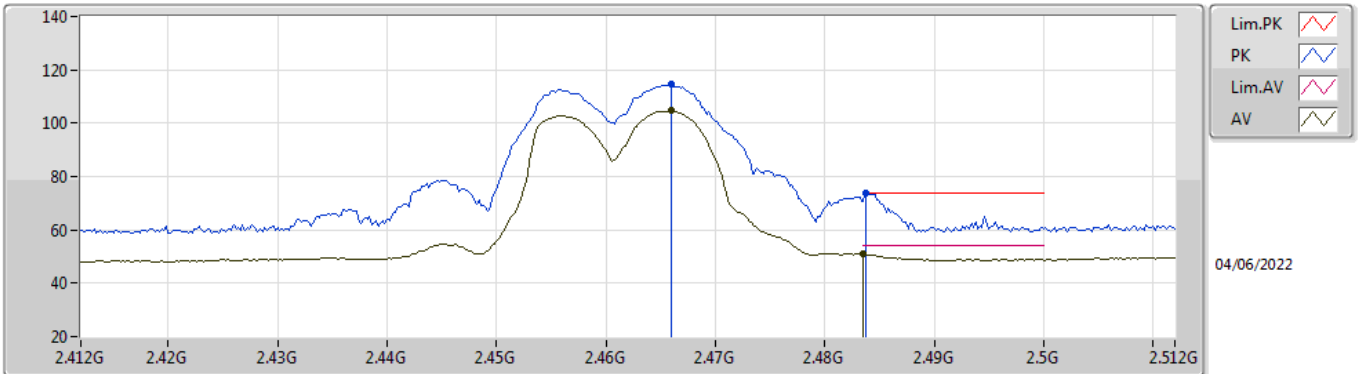


EUT_V_3TX
Setting 73
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4612G	112.84	Inf	-Inf	81.54	3	Vertical	143	1.80	-	28.44	2.86	-
AV	2.4612G	103.38	Inf	-Inf	72.08	3	Vertical	143	1.80	-	28.44	2.86	-
PK	2.4848G	68.57	74.00	-5.43	37.15	3	Vertical	143	1.80	-	28.54	2.88	-
AV	2.4988G	49.52	54.00	-4.48	18.02	3	Vertical	143	1.80	-	28.60	2.90	-

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

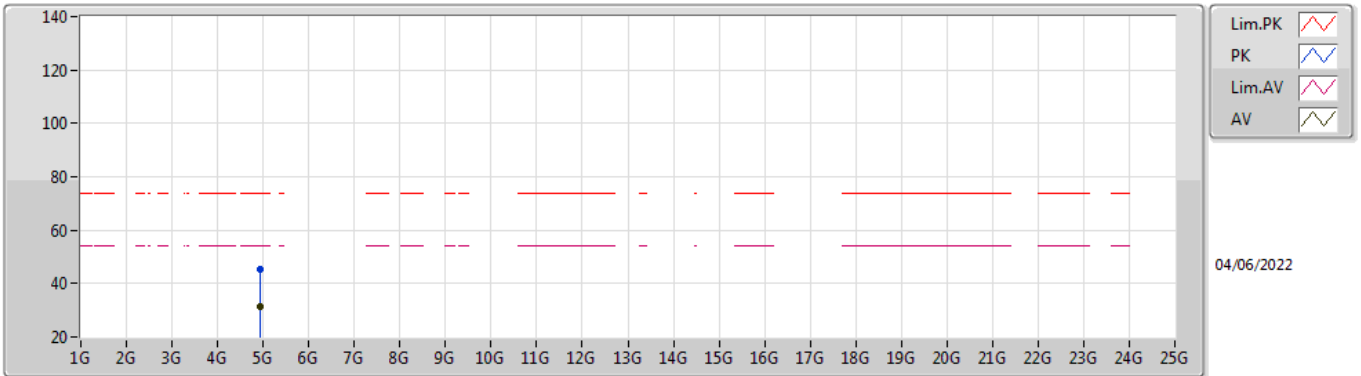


EUT_V_3TX
Setting 73
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.466G	114.50	Inf	-Inf	83.17	3	Horizontal	274	1.95	-	28.46	2.87	-
AV	2.466G	105.04	Inf	-Inf	73.71	3	Horizontal	274	1.95	-	28.46	2.87	-
PK	2.4838G	73.93	74.00	-0.07	42.51	3	Horizontal	274	1.95	-	28.54	2.88	-
AV	2.4835G	50.97	54.00	-3.03	19.56	3	Horizontal	274	1.95	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

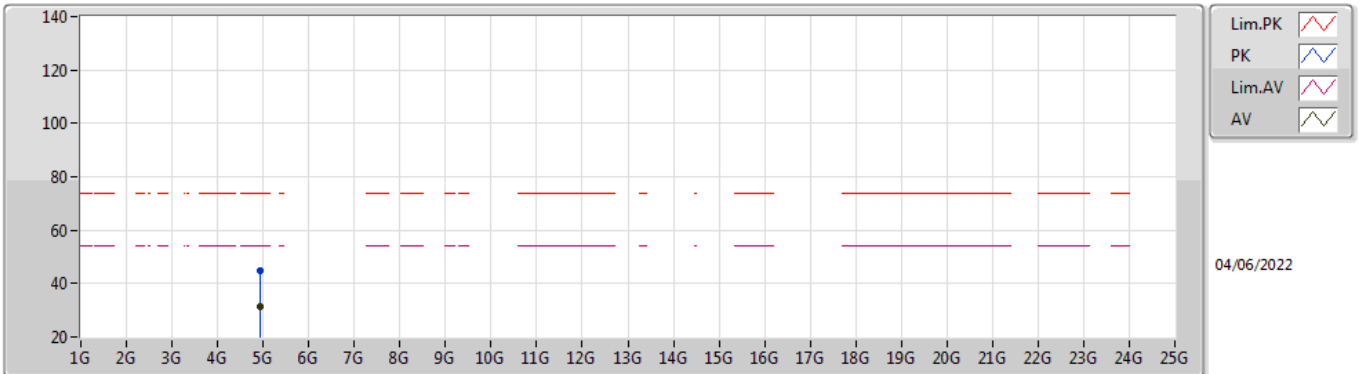


EUT Y_3TX
Setting 73
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92842G	45.37	74.00	-28.63	39.20	3	Vertical	288	1.16	-	33.26	5.10	32.19
AV	4.92326G	31.13	54.00	-22.87	24.97	3	Vertical	288	1.16	-	33.25	5.10	32.19

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

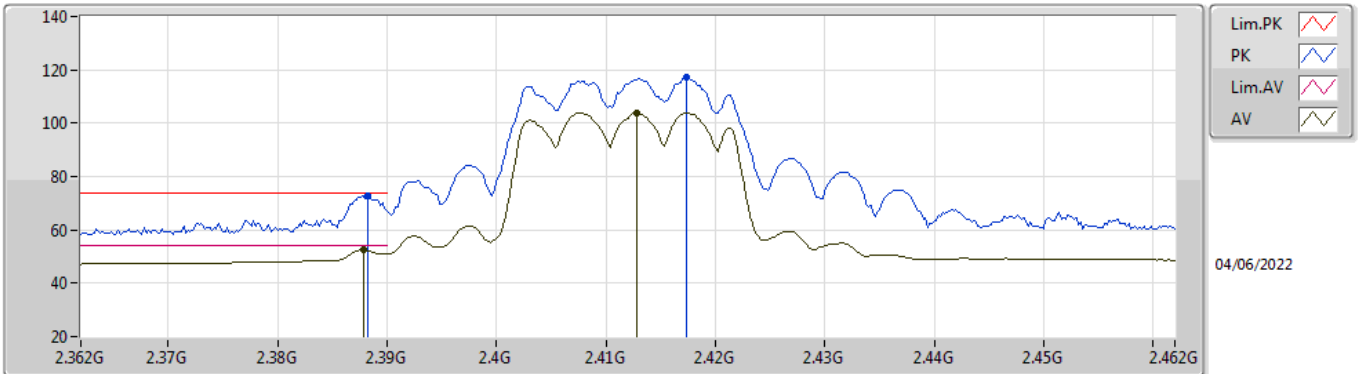


EUT Y_3TX
Setting 73
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92842G	44.95	74.00	-29.05	38.78	3	Horizontal	255	1.01	-	33.26	5.10	32.19
AV	4.92634G	31.16	54.00	-22.84	25.00	3	Horizontal	255	1.01	-	33.25	5.10	32.19

802.11ax HEW20_Nss1,(MCS0)_3TX

2412MHz_TX

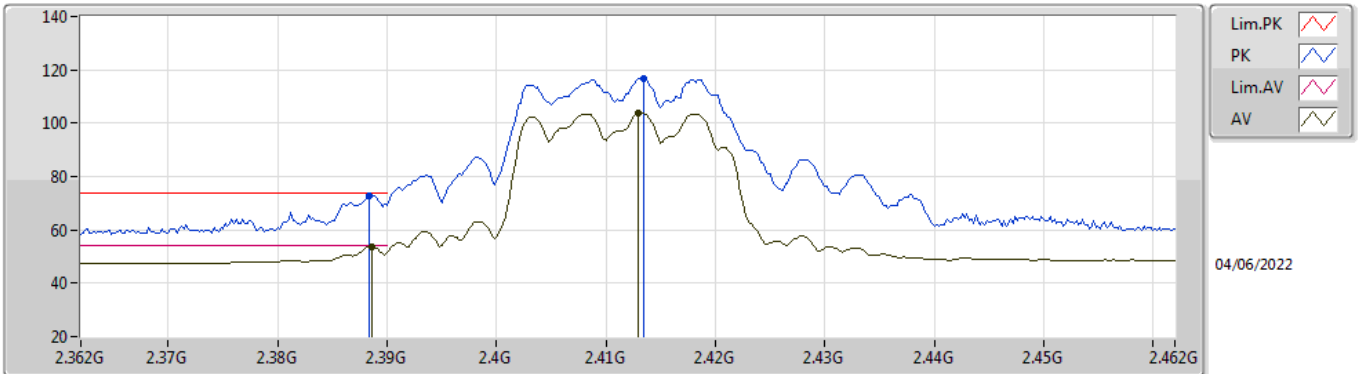


EUT Y_3TX
Setting 71
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	73.00	74.00	-1.00	41.83	3	Vertical	252	1.76	-	28.38	2.79	-
AV	2.3878G	52.42	54.00	-1.58	21.25	3	Vertical	252	1.76	-	28.38	2.79	-
PK	2.4174G	117.40	Inf	-Inf	86.18	3	Vertical	252	1.76	-	28.40	2.82	-
AV	2.4128G	104.03	Inf	-Inf	72.82	3	Vertical	252	1.76	-	28.40	2.81	-

802.11ax HEW20_Nss1,(MCS0)_3TX

2412MHz_TX

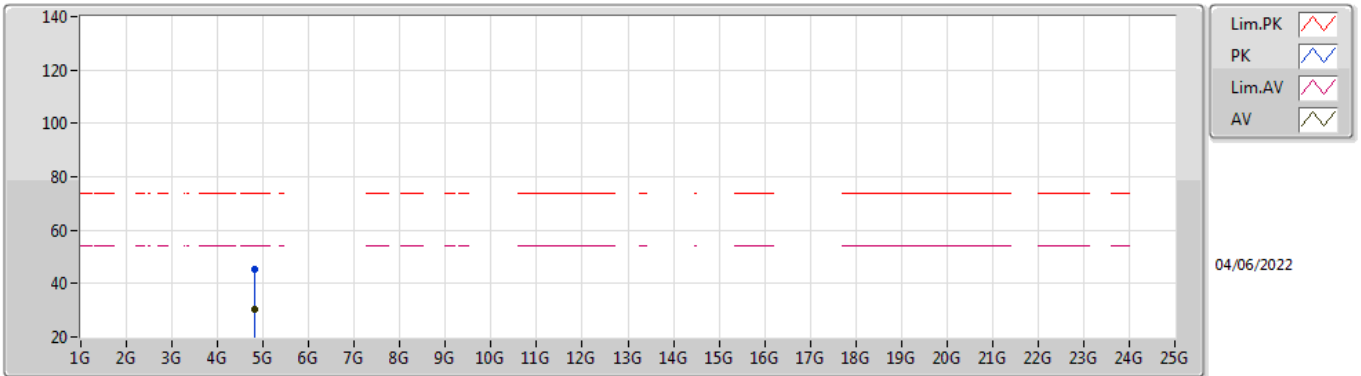


EUT V_3TX
Setting 71
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	72.85	74.00	-1.15	41.68	3	Horizontal	218	1.96	-	28.38	2.79	-
AV	2.3886G	53.82	54.00	-0.18	22.65	3	Horizontal	218	1.96	-	28.38	2.79	-
PK	2.4134G	116.82	Inf	-Inf	85.61	3	Horizontal	218	1.96	-	28.40	2.81	-
AV	2.413G	103.65	Inf	-Inf	72.44	3	Horizontal	218	1.96	-	28.40	2.81	-

802.11ax HEW20_Nss1,(MCS0)_3TX

2412MHz_TX

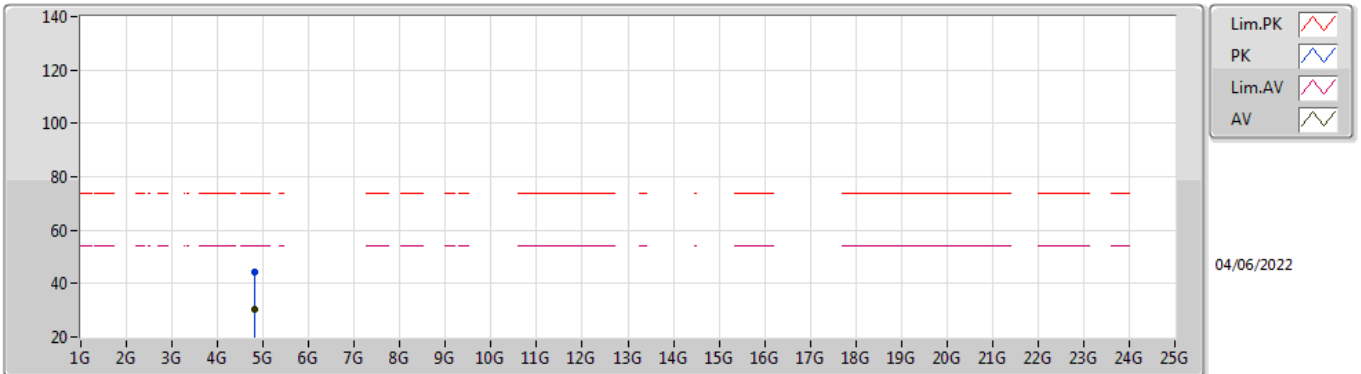


EUT Y_3TX
Setting 71
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.81962G	45.17	74.00	-28.83	39.37	3	Vertical	87	2.83	-	32.92	5.10	32.22
AV	4.82452G	30.11	54.00	-23.89	24.28	3	Vertical	87	2.83	-	32.95	5.10	32.22

802.11ax HEW20_Nss1,(MCS0)_3TX

2412MHz_TX

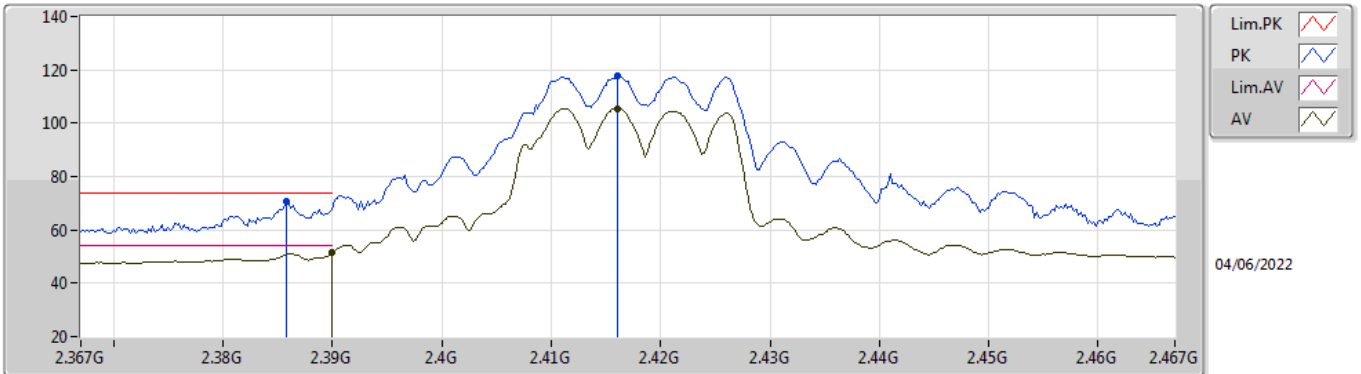


EUT Y_3TX
Setting 71
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.82412G	44.13	74.00	-29.87	38.31	3	Horizontal	179	1.74	-	32.94	5.10	32.22	
AV	4.82422G	30.11	54.00	-23.89	24.28	3	Horizontal	179	1.74	-	32.95	5.10	32.22	

802.11ax HEW20_Nss1,(MCS0)_3TX

2417MHz_TX

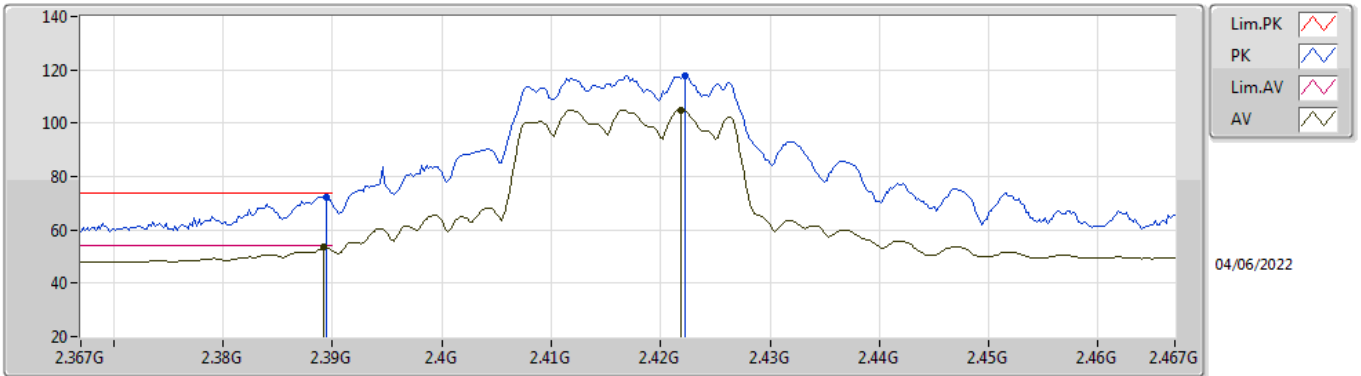


EUT Y_3TX
Setting 81
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3858G	70.48	74.00	-3.52	39.32	3	Vertical	265	1.76	-	28.37	2.79	-
AV	2.39G	51.44	54.00	-2.56	20.27	3	Vertical	265	1.76	-	28.38	2.79	-
PK	2.416G	117.55	Inf	-Inf	86.33	3	Vertical	265	1.76	-	28.40	2.82	-
AV	2.416G	105.55	Inf	-Inf	74.33	3	Vertical	265	1.76	-	28.40	2.82	-

802.11ax HEW20_Nss1,(MCS0)_3TX

2417MHz_TX

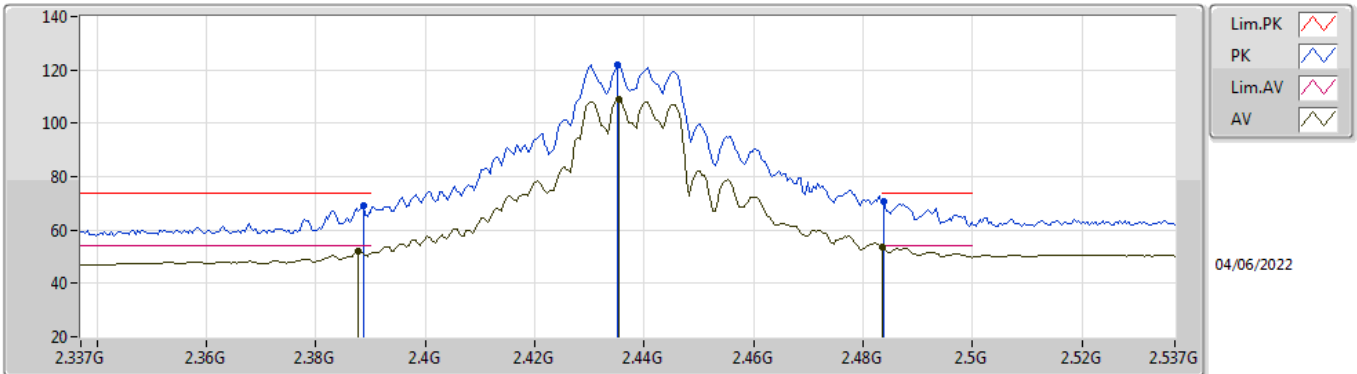


EUT Y_3TX
Setting 81
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	72.48	74.00	-1.52	41.31	3	Horizontal	231	1.96	-	28.38	2.79	-
AV	2.3892G	53.80	54.00	-0.20	22.63	3	Horizontal	231	1.96	-	28.38	2.79	-
PK	2.4222G	117.98	Inf	-Inf	86.76	3	Horizontal	231	1.96	-	28.40	2.82	-
AV	2.4218G	104.88	Inf	-Inf	73.66	3	Horizontal	231	1.96	-	28.40	2.82	-

802.11ax HEW20_Nss1,(MCS0)_3TX

2437MHz_TX

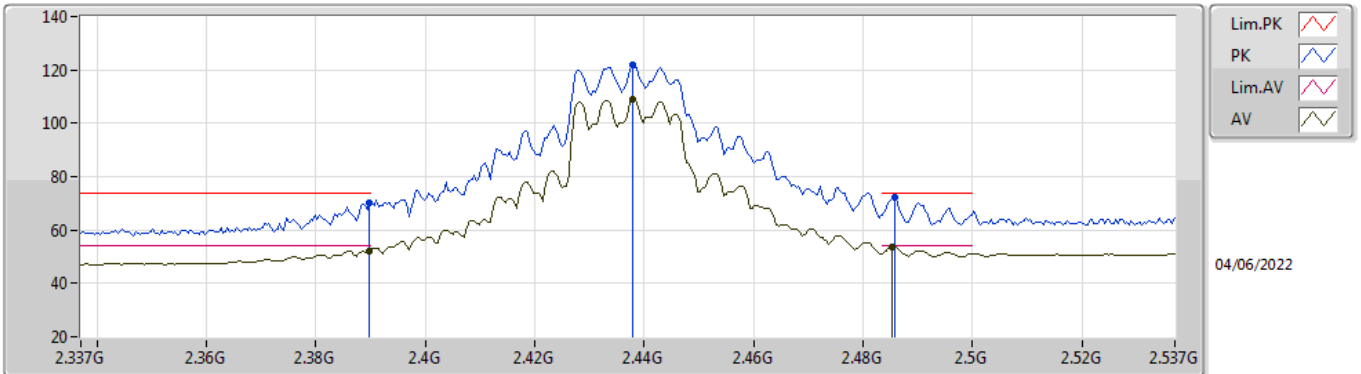


EUT_Y_3TX
Setting 96
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	69.31	74.00	-4.69	38.14	3	Vertical	283	1.76	-	28.38	2.79	-
AV	2.3878G	51.95	54.00	-2.05	20.78	3	Vertical	283	1.76	-	28.38	2.79	-
PK	2.435G	122.13	Inf	-Inf	90.90	3	Vertical	283	1.76	-	28.40	2.83	-
AV	2.4354G	109.04	Inf	-Inf	77.80	3	Vertical	283	1.76	-	28.40	2.84	-
PK	2.4838G	70.77	74.00	-3.23	39.35	3	Vertical	283	1.76	-	28.54	2.88	-
AV	2.4835G	53.59	54.00	-0.41	22.18	3	Vertical	283	1.76	-	28.53	2.88	-

802.11ax HEW20_Nss1,(MCS0)_3TX

2437MHz_TX

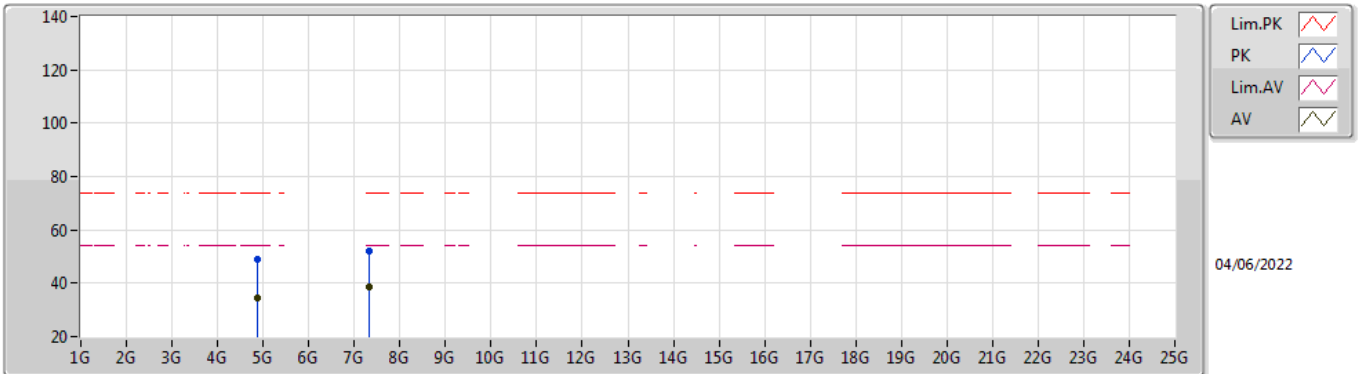


EUT_Y_3TX
Setting 96
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3898G	70.21	74.00	-3.79	39.04	3	Horizontal	226	1.76	-	28.38	2.79	-	
AV	2.3898G	52.07	54.00	-1.93	20.90	3	Horizontal	226	1.76	-	28.38	2.79	-	
PK	2.4378G	121.99	Inf	-Inf	90.75	3	Horizontal	226	1.76	-	28.40	2.84	-	
AV	2.4378G	108.71	Inf	-Inf	77.47	3	Horizontal	226	1.76	-	28.40	2.84	-	
PK	2.4858G	72.50	74.00	-1.50	41.07	3	Horizontal	226	1.76	-	28.54	2.89	-	
AV	2.4854G	53.82	54.00	-0.18	22.39	3	Horizontal	226	1.76	-	28.54	2.89	-	

802.11ax HEW20_Nss1,(MCS0)_3TX

2437MHz_TX

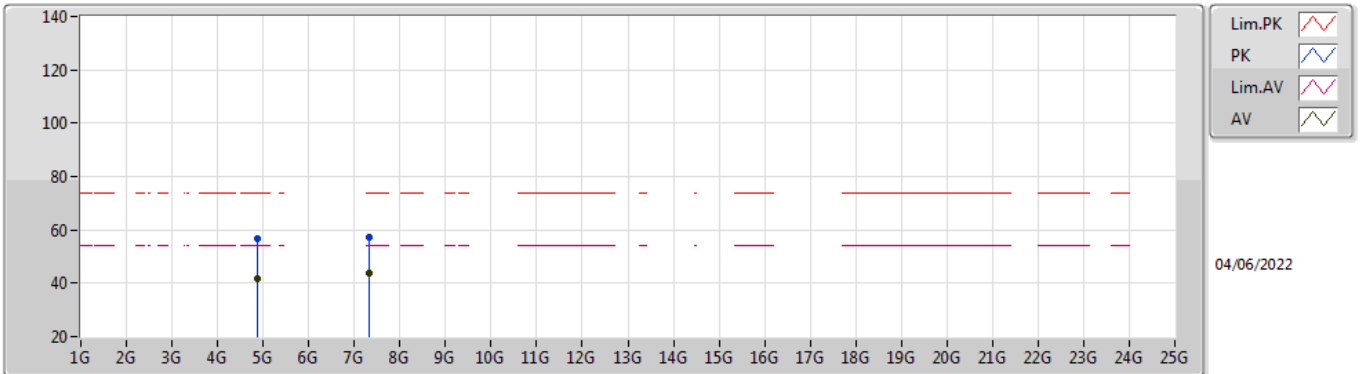


EUT Y_3TX
Setting 108
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87292G	49.09	74.00	-24.91	43.05	3	Vertical	259	1.77	-	33.15	5.10	32.21
AV	4.87818G	34.71	54.00	-19.29	28.65	3	Vertical	259	1.77	-	33.16	5.10	32.20
PK	7.31116G	51.86	74.00	-22.14	42.10	3	Vertical	120	2.08	-	36.42	6.16	32.82
AV	7.31064G	38.39	54.00	-15.61	28.63	3	Vertical	120	2.08	-	36.42	6.16	32.82

802.11ax HEW20_Nss1,(MCS0)_3TX

2437MHz_TX

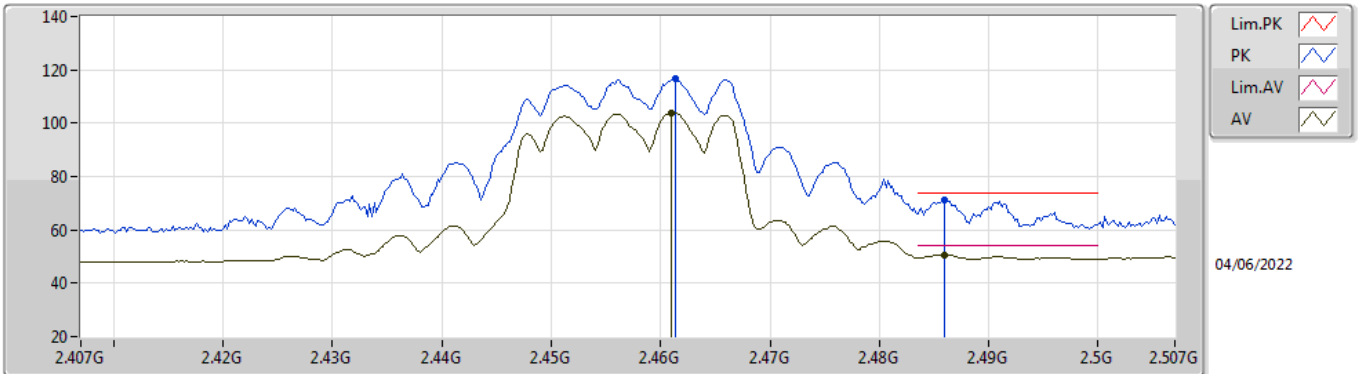


EUT X_3TX
Setting 96
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87324G	56.66	74.00	-17.34	50.62	3	Horizontal	40	2.11	-	33.15	5.10	32.21
AV	4.87366G	41.50	54.00	-12.50	35.46	3	Horizontal	40	2.11	-	33.15	5.10	32.21
PK	7.31526G	57.18	74.00	-16.82	47.42	3	Horizontal	34	2.10	-	36.43	6.16	32.83
AV	7.31026G	43.86	54.00	-10.14	34.10	3	Horizontal	34	2.10	-	36.42	6.16	32.82

802.11ax HEW20_Nss1,(MCS0)_3TX

2457MHz_TX

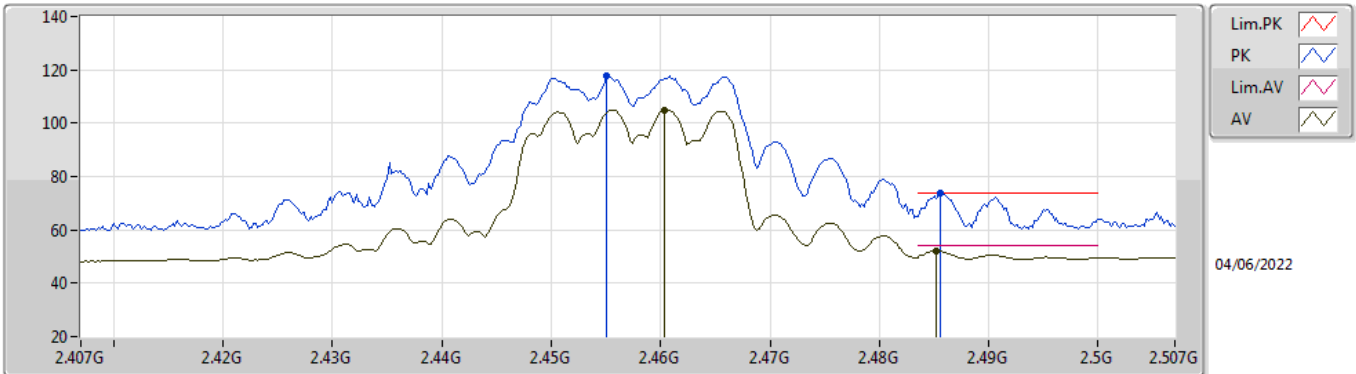


EUT Y_3TX
Setting 80
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4614G	116.93	Inf	-Inf	85.62	3	Vertical	142	1.77	-	28.45	2.86	-	
AV	2.461G	103.84	Inf	-Inf	72.54	3	Vertical	142	1.77	-	28.44	2.86	-	
PK	2.486G	71.21	74.00	-2.79	39.78	3	Vertical	142	1.77	-	28.54	2.89	-	
AV	2.486G	50.59	54.00	-3.41	19.16	3	Vertical	142	1.77	-	28.54	2.89	-	

802.11ax HEW20_Nss1,(MCS0)_3TX

2457MHz_TX

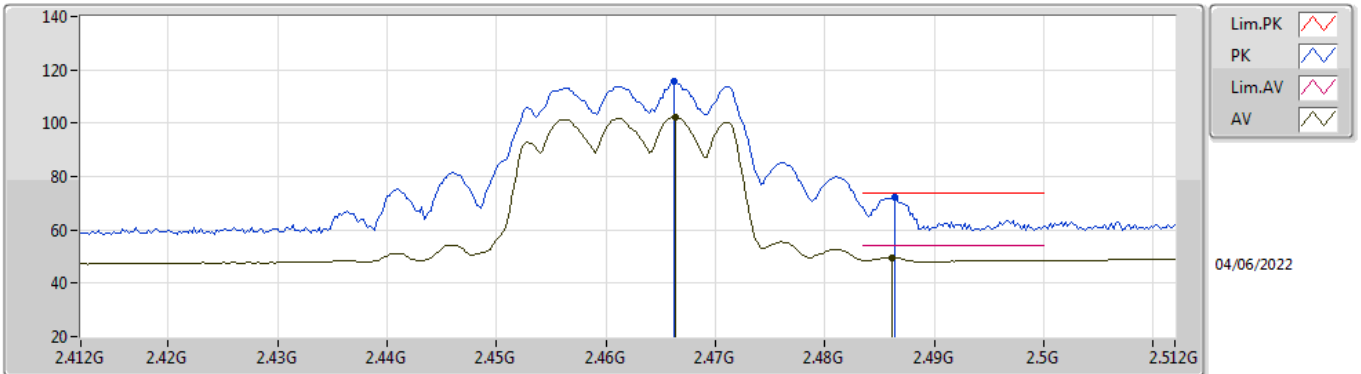


EUT Y_3TX
Setting 80
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.455G	117.76	Inf	-Inf	86.49	3	Horizontal	218	1.72	-	28.42	2.85	-	
AV	2.4604G	105.08	Inf	-Inf	73.78	3	Horizontal	218	1.72	-	28.44	2.86	-	
PK	2.4856G	73.76	74.00	-0.24	42.33	3	Horizontal	218	1.72	-	28.54	2.89	-	
AV	2.4852G	52.11	54.00	-1.89	20.68	3	Horizontal	218	1.72	-	28.54	2.89	-	

802.11ax HEW20_Nss1,(MCS0)_3TX

2462MHz_TX

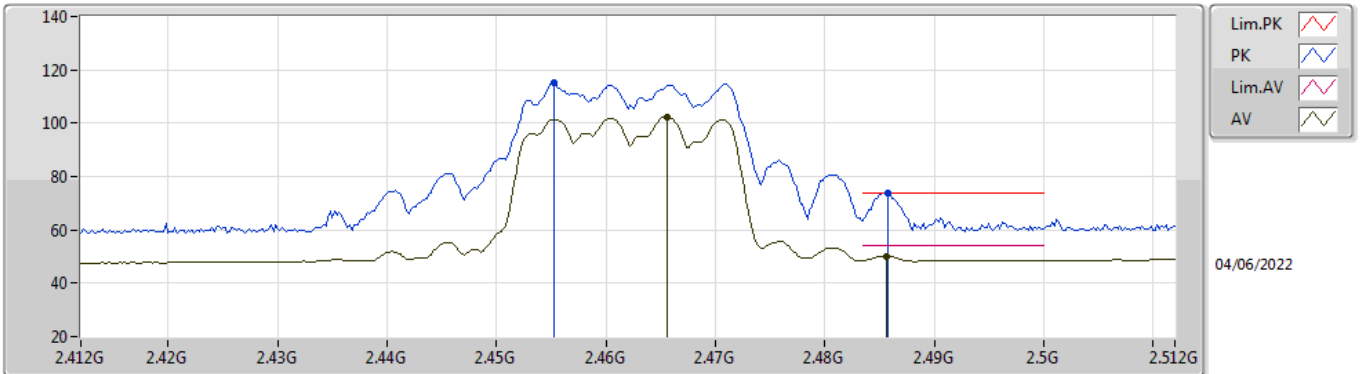


EUT_V_3TX
Setting 69
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4662G	115.86	Inf	-Inf	84.53	3	Vertical	142	1.88	-	28.46	2.87	-
AV	2.4664G	102.27	Inf	-Inf	70.93	3	Vertical	142	1.88	-	28.47	2.87	-
PK	2.4864G	71.99	74.00	-2.01	40.55	3	Vertical	142	1.88	-	28.55	2.89	-
AV	2.4862G	49.67	54.00	-4.33	18.24	3	Vertical	142	1.88	-	28.54	2.89	-

802.11ax HEW20_Nss1,(MCS0)_3TX

2462MHz_TX

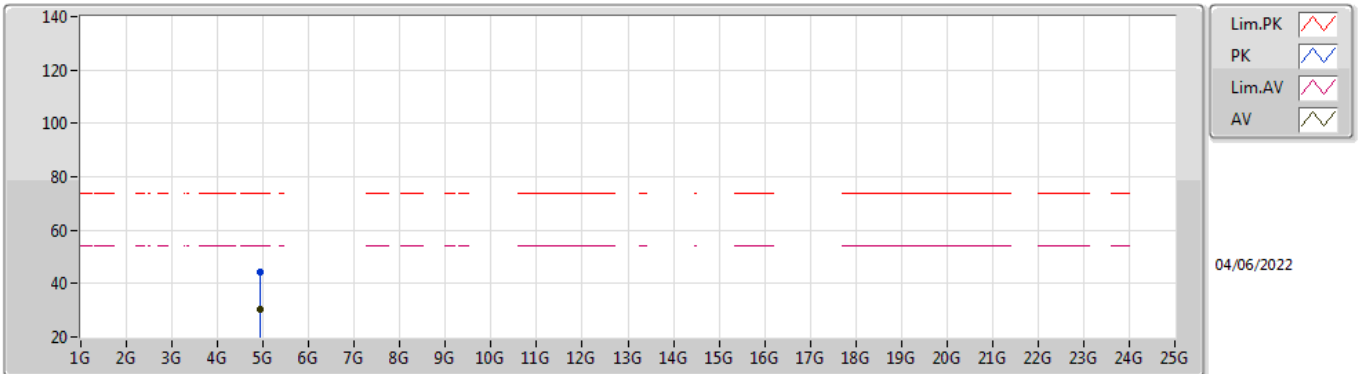


EUT V_3TX
Setting 69
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4552G	115.35	Inf	-Inf	84.07	3	Horizontal	220	1.92	-	28.42	2.86	-
AV	2.4656G	102.41	Inf	-Inf	71.08	3	Horizontal	220	1.92	-	28.46	2.87	-
PK	2.4858G	73.87	74.00	-0.13	42.44	3	Horizontal	220	1.92	-	28.54	2.89	-
AV	2.4856G	50.15	54.00	-3.85	18.72	3	Horizontal	220	1.92	-	28.54	2.89	-

802.11ax HEW20_Nss1,(MCS0)_3TX

2462MHz_TX

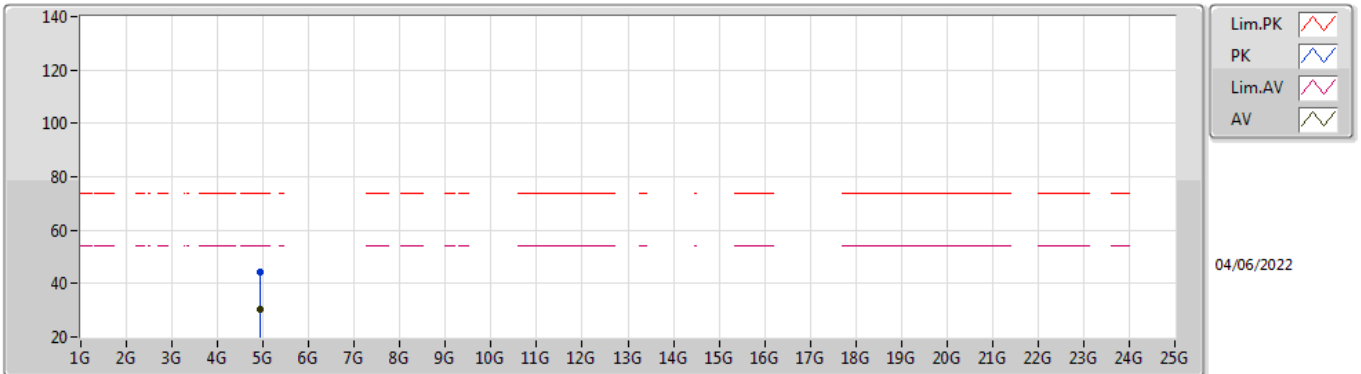


EUT Y_3TX
Setting 69
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.92022G	44.20	74.00	-29.80	38.05	3	Vertical	11	1.75	-	33.24	5.10	32.19	
AV	4.92514G	30.31	54.00	-23.69	24.15	3	Vertical	11	1.75	-	33.25	5.10	32.19	

802.11ax HEW20_Nss1,(MCS0)_3TX

2462MHz_TX

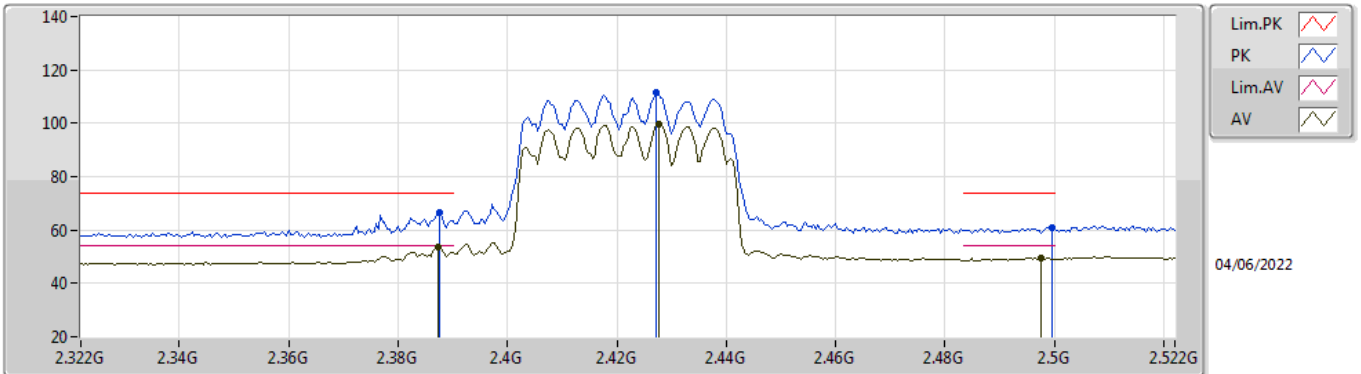


EUT Y_3TX
Setting 69
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92552G	44.22	74.00	-29.78	38.06	3	Horizontal	331	1.89	-	33.25	5.10	32.19
AV	4.92482G	30.18	54.00	-23.82	24.02	3	Horizontal	331	1.89	-	33.25	5.10	32.19

802.11ax HEW40_Nss1,(MCS0)_3TX

2422MHz_TX

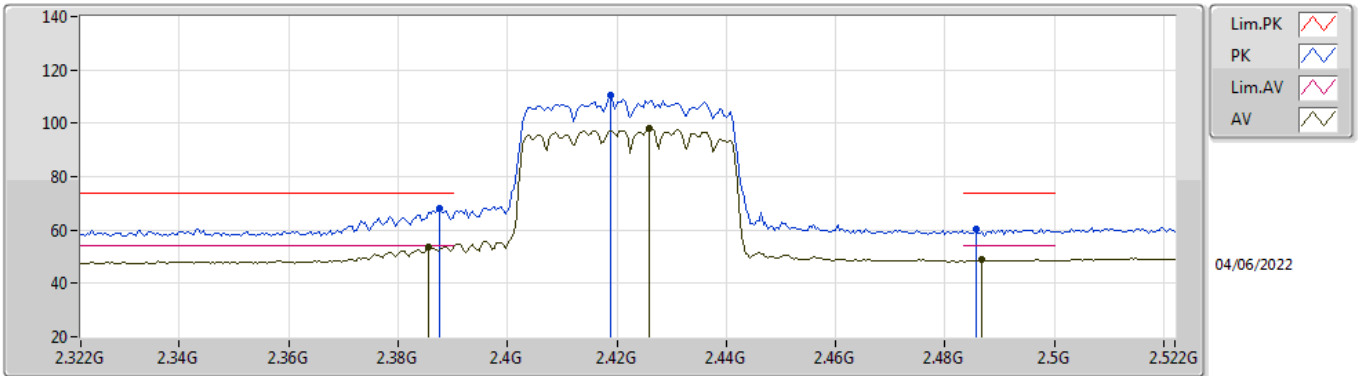


EUT_V_3TX
Setting 63
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3876G	66.60	74.00	-7.40	35.43	3	Vertical	280	2.33	-	28.38	2.79	-
AV	2.3872G	53.75	54.00	-0.25	22.59	3	Vertical	280	2.33	-	28.37	2.79	-
PK	2.4272G	111.75	Inf	-Inf	80.52	3	Vertical	280	2.33	-	28.40	2.83	-
AV	2.4276G	99.73	Inf	-Inf	68.50	3	Vertical	280	2.33	-	28.40	2.83	-
PK	2.4996G	61.08	74.00	-12.92	29.58	3	Vertical	280	2.33	-	28.60	2.90	-
AV	2.4976G	49.55	54.00	-4.45	18.06	3	Vertical	280	2.33	-	28.59	2.90	-

802.11ax HEW40_Nss1,(MCS0)_3TX

2422MHz_TX

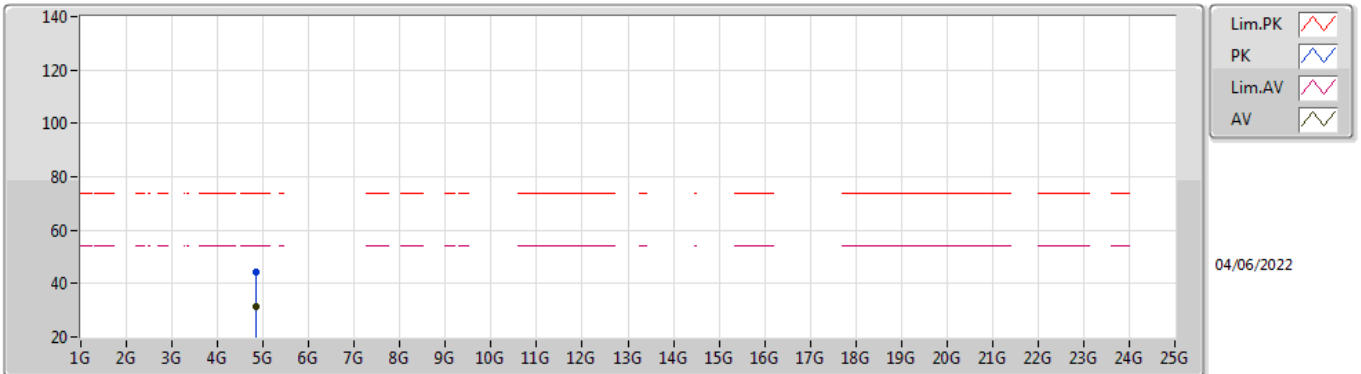


EUT_Y_3TX
Setting 63
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3876G	67.87	74.00	-6.13	36.70	3	Horizontal	111	1.92	-	28.38	2.79	-
AV	2.3856G	53.83	54.00	-0.17	22.67	3	Horizontal	111	1.92	-	28.37	2.79	-
PK	2.4188G	110.27	Inf	-Inf	79.05	3	Horizontal	111	1.92	-	28.40	2.82	-
AV	2.426G	97.92	Inf	-Inf	66.69	3	Horizontal	111	1.92	-	28.40	2.83	-
PK	2.4856G	60.50	74.00	-13.50	29.07	3	Horizontal	111	1.92	-	28.54	2.89	-
AV	2.4868G	48.86	54.00	-5.14	17.42	3	Horizontal	111	1.92	-	28.55	2.89	-

802.11ax HEW40_Nss1,(MCS0)_3TX

2422MHz_TX

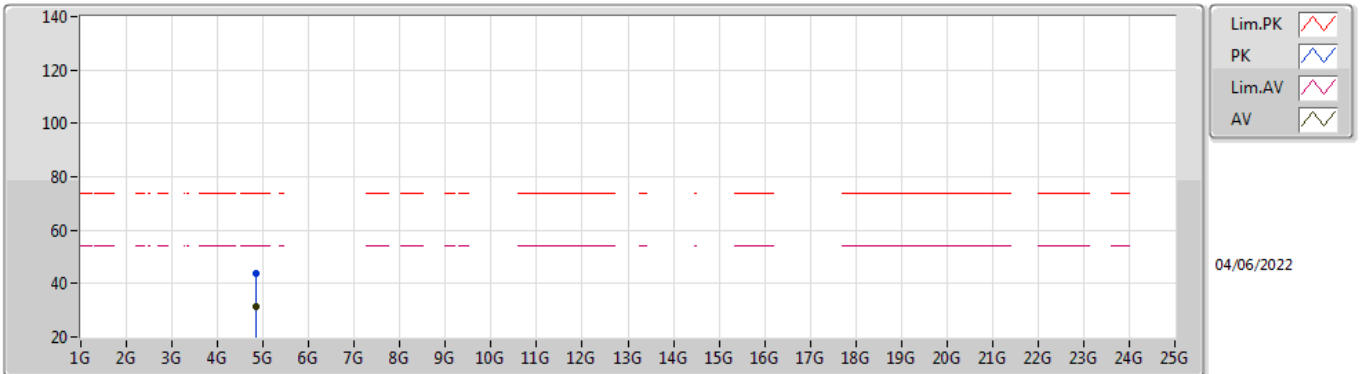


EUT Y_3TX
Setting 63
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8469G	44.34	74.00	-29.66	38.38	3	Vertical	91	2.19	-	33.08	5.10	32.22
AV	4.84382G	31.42	54.00	-22.58	25.48	3	Vertical	91	2.19	-	33.06	5.10	32.22

802.11ax HEW40_Nss1,(MCS0)_3TX

2422MHz_TX

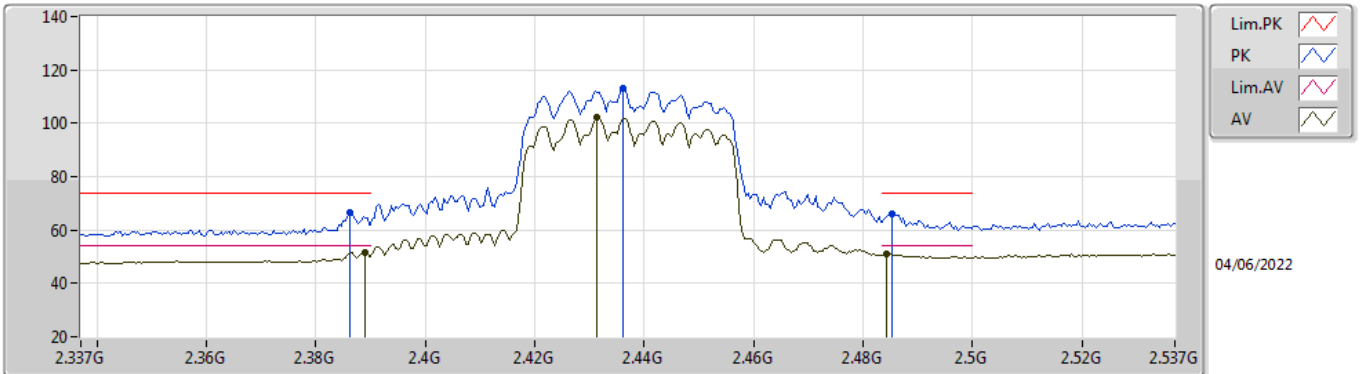


EUT Y_3TX
Setting 63
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83944G	43.87	74.00	-30.13	37.95	3	Horizontal	63	2.55	-	33.04	5.10	32.22
AV	4.84016G	31.37	54.00	-22.63	25.45	3	Horizontal	63	2.55	-	33.04	5.10	32.22

802.11ax HEW40_Nss1,(MCS0)_3TX

2437MHz_TX

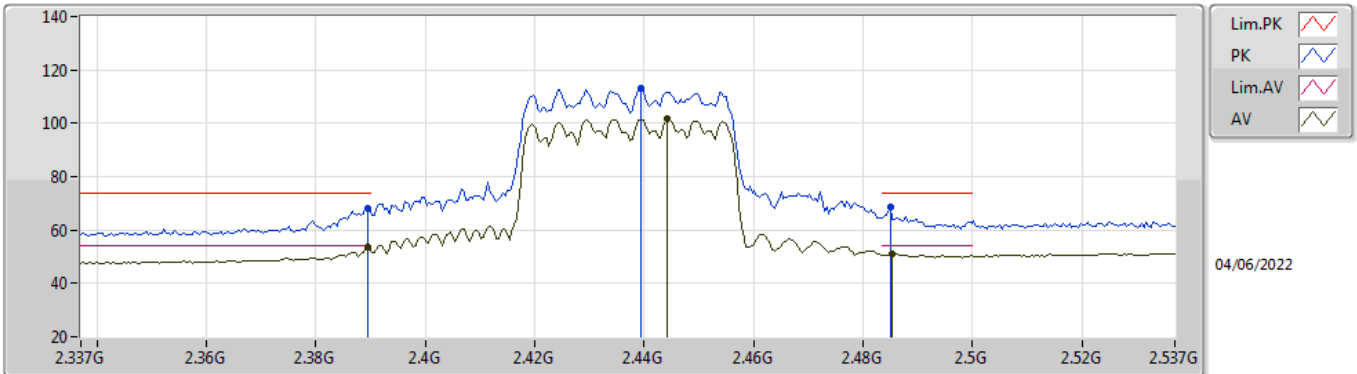


EUT_V_3TX
Setting 74
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3862G	66.63	74.00	-7.37	35.47	3	Vertical	288	1.77	-	28.37	2.79	-
AV	2.389G	51.52	54.00	-2.48	20.35	3	Vertical	288	1.77	-	28.38	2.79	-
PK	2.4362G	113.05	Inf	-Inf	81.81	3	Vertical	288	1.77	-	28.40	2.84	-
AV	2.4314G	102.30	Inf	-Inf	71.07	3	Vertical	288	1.77	-	28.40	2.83	-
PK	2.4854G	66.23	74.00	-7.77	34.80	3	Vertical	288	1.77	-	28.54	2.89	-
AV	2.4842G	51.24	54.00	-2.76	19.82	3	Vertical	288	1.77	-	28.54	2.88	-

802.11ax HEW40_Nss1,(MCS0)_3TX

2437MHz_TX

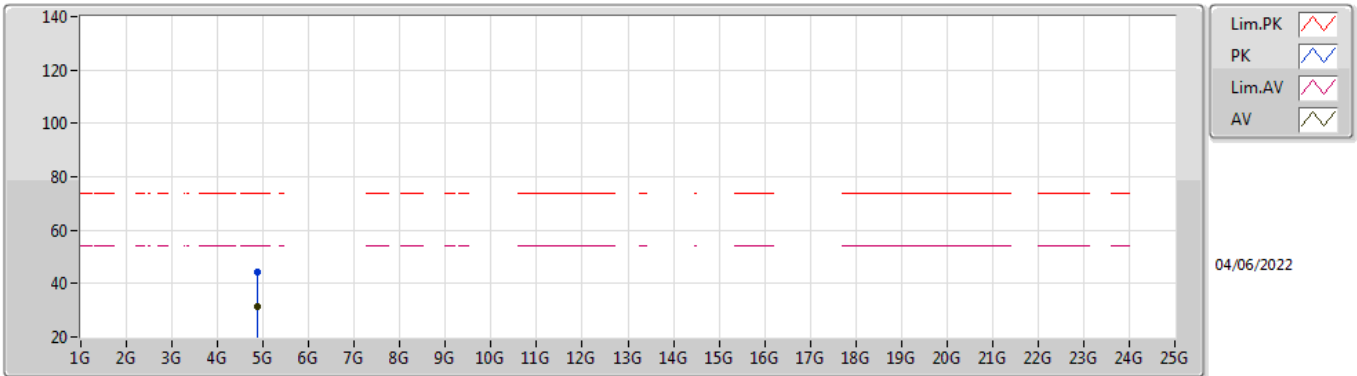


EUT_V_3TX
Setting 74
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	68.14	74.00	-5.86	36.97	3	Horizontal	225	1.77	-	28.38	2.79	-
AV	2.3894G	53.79	54.00	-0.21	22.62	3	Horizontal	225	1.77	-	28.38	2.79	-
PK	2.4394G	112.85	Inf	-Inf	81.61	3	Horizontal	225	1.77	-	28.40	2.84	-
AV	2.4442G	101.48	Inf	-Inf	70.24	3	Horizontal	225	1.77	-	28.40	2.84	-
PK	2.485G	68.86	74.00	-5.14	37.43	3	Horizontal	225	1.77	-	28.54	2.89	-
AV	2.4854G	50.93	54.00	-3.07	19.50	3	Horizontal	225	1.77	-	28.54	2.89	-

802.11ax HEW40_Nss1,(MCS0)_3TX

2437MHz_TX

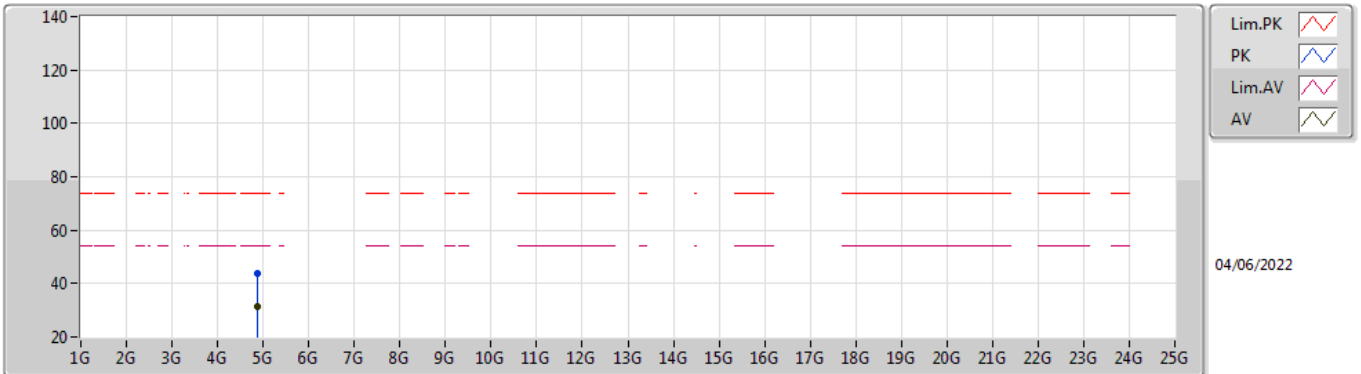


EUT Y_3TX
Setting 74
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87848G	44.08	74.00	-29.92	38.02	3	Vertical	239	2.71	-	33.16	5.10	32.20
AV	4.87328G	31.20	54.00	-22.80	25.16	3	Vertical	239	2.71	-	33.15	5.10	32.21

802.11ax HEW40_Nss1,(MCS0)_3TX

2437MHz_TX

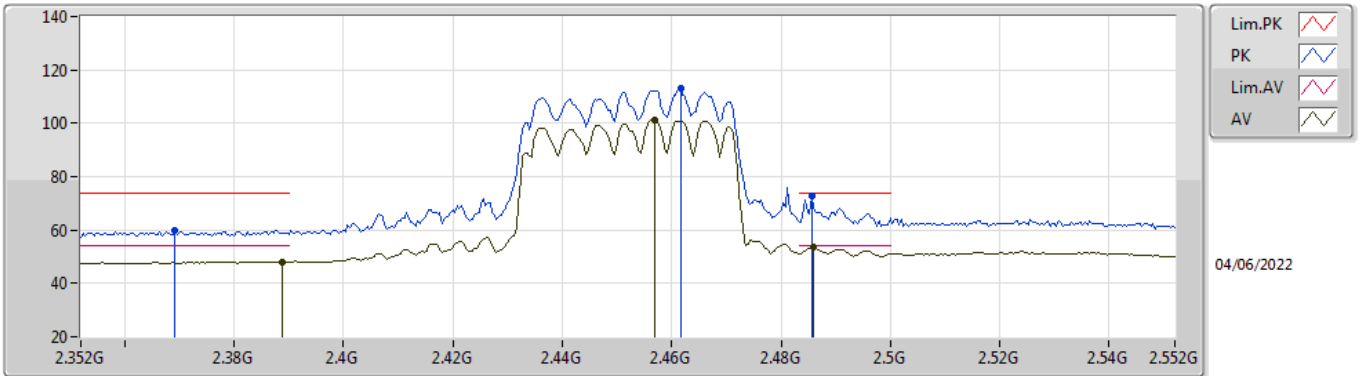


EUT Y_3TX
Setting 74
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.87248G	43.63	74.00	-30.37	37.60	3	Horizontal	93	1.45	-	33.14	5.10	32.21	
AV	4.87002G	31.35	54.00	-22.65	25.32	3	Horizontal	93	1.45	-	33.14	5.10	32.21	

802.11ax HEW40_Nss1,(MCS0)_3TX

2452MHz_TX

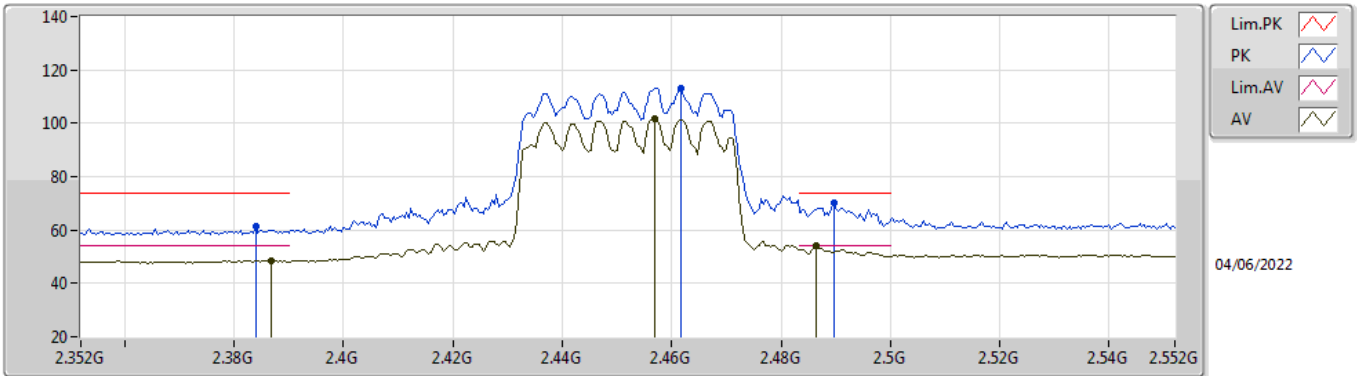


EUT_V_3TX
Setting 68
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3692G	59.79	74.00	-14.21	28.67	3	Vertical	268	2.11	-	28.34	2.78	-
AV	2.3888G	48.16	54.00	-5.84	16.99	3	Vertical	268	2.11	-	28.38	2.79	-
PK	2.4616G	112.98	Inf	-Inf	81.67	3	Vertical	268	2.11	-	28.45	2.86	-
AV	2.4568G	101.17	Inf	-Inf	69.88	3	Vertical	268	2.11	-	28.43	2.86	-
PK	2.4856G	72.61	74.00	-1.39	41.18	3	Vertical	268	2.11	-	28.54	2.89	-
AV	2.486G	53.66	54.00	-0.34	22.23	3	Vertical	268	2.11	-	28.54	2.89	-

802.11ax HEW40_Nss1,(MCS0)_3TX

2452MHz_TX

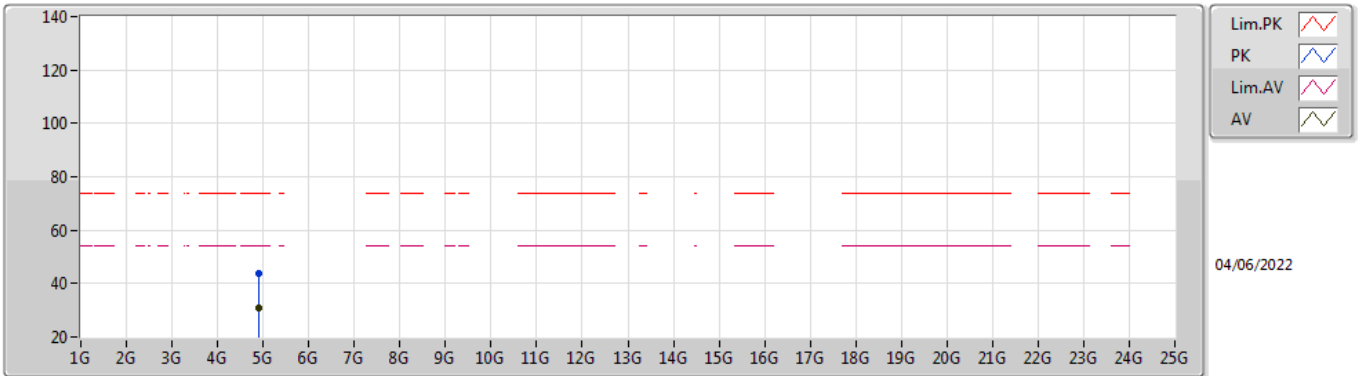


EUT_V_3TX
Setting 68
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.384G	61.47	74.00	-12.53	30.31	3	Horizontal	234	2.09	-	28.37	2.79	-
AV	2.3868G	48.37	54.00	-5.63	17.21	3	Horizontal	234	2.09	-	28.37	2.79	-
PK	2.4616G	113.33	Inf	-Inf	82.02	3	Horizontal	234	2.09	-	28.45	2.86	-
AV	2.4568G	101.73	Inf	-Inf	70.44	3	Horizontal	234	2.09	-	28.43	2.86	-
PK	2.4896G	70.09	74.00	-3.91	38.64	3	Horizontal	234	2.09	-	28.56	2.89	-
AV	2.4864G	53.89	54.00	-0.11	22.45	3	Horizontal	234	2.09	-	28.55	2.89	-

802.11ax HEW40_Nss1,(MCS0)_3TX

2452MHz_TX

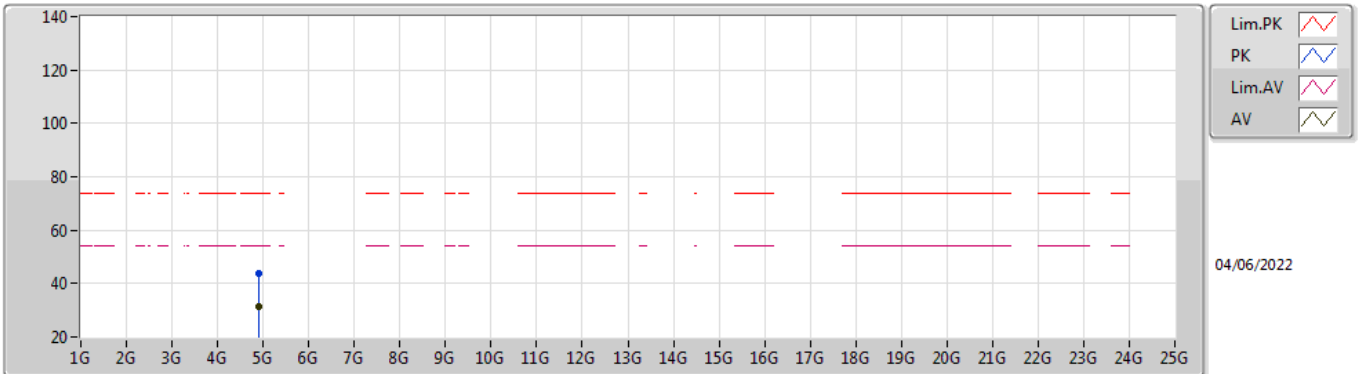


EUT Y_3TX
Setting 68
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90852G	43.64	74.00	-30.36	37.51	3	Vertical	28	2.26	-	33.22	5.10	32.19
AV	4.90656G	30.97	54.00	-23.03	24.85	3	Vertical	28	2.26	-	33.21	5.10	32.19

802.11ax HEW40_Nss1,(MCS0)_3TX

2452MHz_TX



EUT Y_3TX
Setting 68
02-B-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90482G	43.72	74.00	-30.28	37.60	3	Horizontal	249	1.02	-	33.21	5.10	32.19
AV	4.89906G	31.13	54.00	-22.87	25.03	3	Horizontal	249	1.02	-	33.20	5.10	32.20