



RADIO TEST REPORT

FCC ID : 2AHKM-NOVA1214
Equipment : Wi-Fi 6 Voice GPON HGU
Brand Name : Hitron
Model Name : NOVA-1214
Applicant : Hitron Technologies Inc.
No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park,
Hsinchu 30078, Taiwan
Manufacturer : Hitron Technologies Inc.
No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park,
Hsinchu 30078, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 08, 2022, and testing was started from Dec. 29, 2022 and completed on Feb. 27, 2023. 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.)



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TEL : 886-3-656-9065
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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:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. 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: Penny Kao**



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	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT20-BF	20	2TX
2.4-2.4835GHz	802.11ac VHT20	20	2TX
2.4-2.4835GHz	802.11ac VHT20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11n HT40-BF	40	2TX
2.4-2.4835GHz	802.11ac VHT40	40	2TX
2.4-2.4835GHz	802.11ac VHT40-BF	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	2TX

Note:

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



1.1.2 Antenna Information

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz					
1	1	-	HONGBO	290-20512	PIFA	I-Pex	Note 1
2	2	-	HONGBO	290-20511	Dipole	I-Pex	
3	-	1	HONGBO	290-20513	Dipole	I-Pex	
4	-	2	HONGBO	290-20515	Dipole	I-Pex	
5	-	3	HONGBO	290-20514	Dipole	I-Pex	

Note 1:

<Antenna Gain>

Ant.	Port		Antenna Gain (dBi)						
	WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz			WLAN 5GHz			
			2400MHz	2450MHz	2483.5MHz	UNII 1	UNII 2A	UNII 2C	UNII 3
1	1	-	1.98	2.11	1.82	-	-	-	-
2	2	-	1.45	1.13	1.01	-	-	-	-
3	-	1	-	-	-	2.06	2.01	2.62	2.37
4	-	2	-	-	-	3.72	2.34	2.92	2.76
5	-	3	-	-	-	2.87	3.4	3.65	4

<Directional Gain>

Directional Gain (dBi)							
Item	WLAN 2.4GHz			WLAN 5GHz			
	2400MHz	2450MHz	2483.5MHz	UNII 1	UNII 2A	UNII 2C	UNII 3
2T1S	2.07	2.5	3.56	-	-	-	-
3T1S	-	-	-	3.77	3.55	3.98	4.31

Note 2: The above information (except gain) was declared by manufacturer.

The directional gain is measured which follows the procedure of KDB 662911 D03.

Note 3: The EUT has five antennas.

<WLAN 2.4GHz function>

For IEEE 802.11b/g/n/VHT/ax (2TX/2RX):

Pot 1, Port 2 can be used as transmitting/receiving antenna.

Pot 1, Port 2 could transmit/receive simultaneously.

<WLAN 5GHz function>

For IEEE 802.11a/n/ac/ax mode (3TX/3RX)

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

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

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.989	0.05	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.949	0.23	1.057m	1k
802.11ax HEW20	0.989	0.05	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.985	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

Note:

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

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
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	QA Tool Version 0.0.2.73			

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2013

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

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D03 v01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Mason Chen	23.4-25.1 / 62-69	Jan. 03, 2023~ Feb. 16, 2023
Radiated Below 1GHz	03CH01-CB	Ederson Huang	21.4-22.5 / 55~58	Feb. 08, 2023~ Feb. 24, 2023
	03CH03-CB		24.4-25.5 / 55~58	
Radiated Above 1GHz	03CH06-CB	Ken Yeh	21.8~23 / 64~66	Dec. 29, 2022~ Dec. 31, 2022
AC Conduction	CO01-CB	Ryan Huang	19~20 / 53~54	Feb. 09, 2023~ Feb. 27, 2023

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	19
2437MHz	19.5
2462MHz	20
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	17.5
2417MHz	19
2437MHz	21.5
2462MHz	19
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	16.5
2417MHz	19
2437MHz	21.5
2457MHz	20
2462MHz	18.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	17.5
2437MHz	18.5
2452MHz	17.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	16.5
2417MHz	19
2437MHz	21.5
2457MHz	20
2462MHz	18.5
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	17.5
2437MHz	18.5
2452MHz	17.5

Note:

- 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.
- The EUT supports non-beamforming and beamforming modes, after evaluating, the non-beamforming mode has been evaluated to be the worst case, so it was selected to test. The beamforming mode evaluates the output power only.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT + Adapter 1
2	EUT + Adapter 2
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	Normal Link
	After evaluating, the worst case was found at Y axis, thus the measurement will follow this same test configuration.
1	EUT in Y axis + Adapter 1
2	EUT in Y axis + Adapter 2
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	After evaluating, the worst case was found at Y axis, thus 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.: FA2N0822 for Co-location RF Exposure Evaluation.	

Note: The declaration from manufacturer, "USB port" without any function, and it was performed test at the load.

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1	MOSO	MS-V2000R120-024Q0-US	Input: 100-240V~50/60Hz, 0.7A max. Output: 12.0V, 2.0A
Adapter 2	AMIGO	AMS200A-1202000FU	Input: 100-240V~ 50/60Hz, 0.8A Max Output: 12V, 2.0A
Others			
RJ-45 cable*1: Non-shielded, 1.5m			



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Switch	GCOM	GL5600-08P	N/A
B	LAN NB	DELL	PP13S	N/A
C	2.4G NB	DELL	PP13S	N/A
D	5G NB	DELL	PP13S	N/A
E	Phone	SAMPO	HT-B 907WL	N/A
F	Phone	SAMPO	HT-B 907WL	N/A
G	Flash disk	Kingston	DTSE9H	N/A

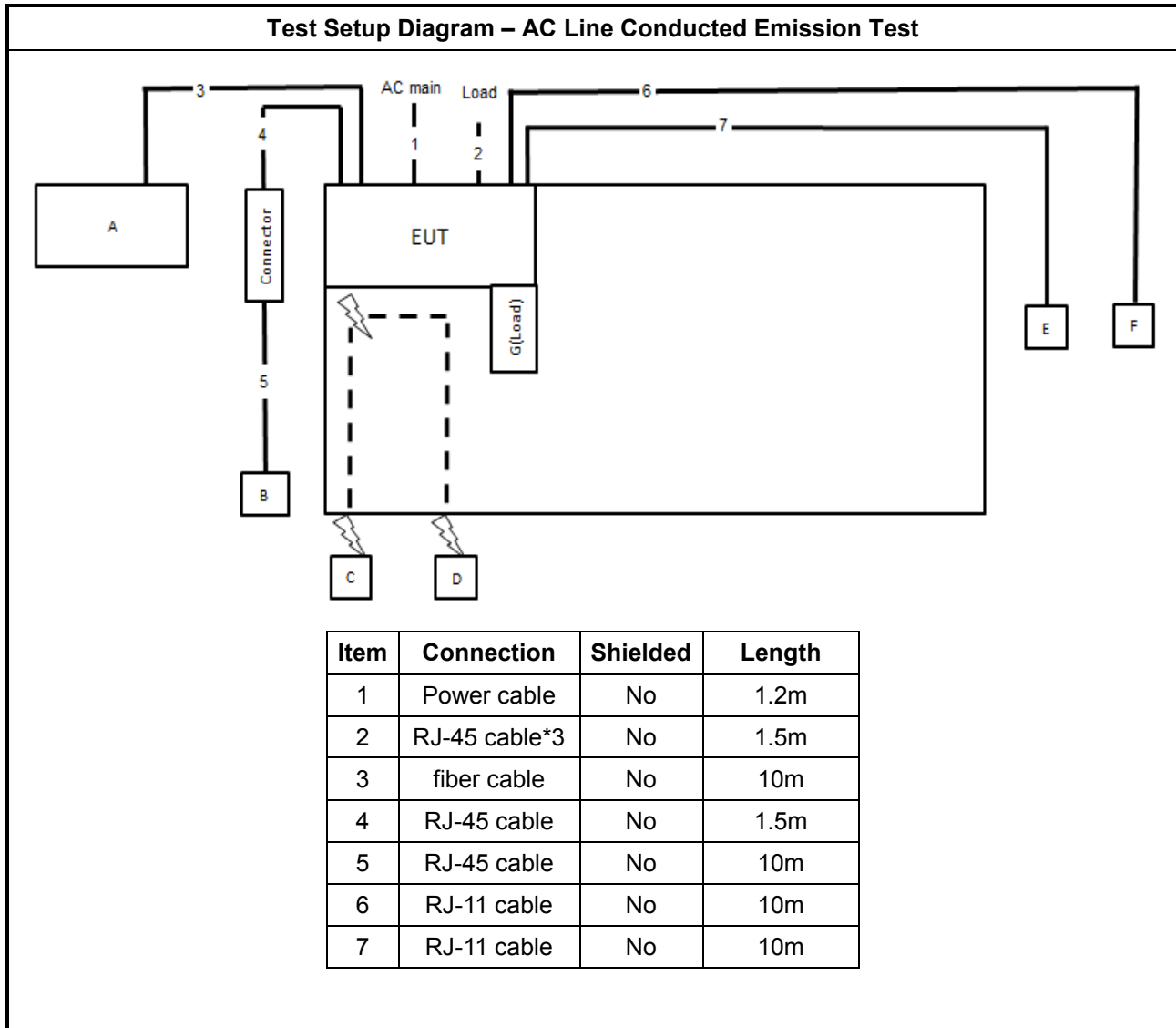
For Radiated (below 1GHz):

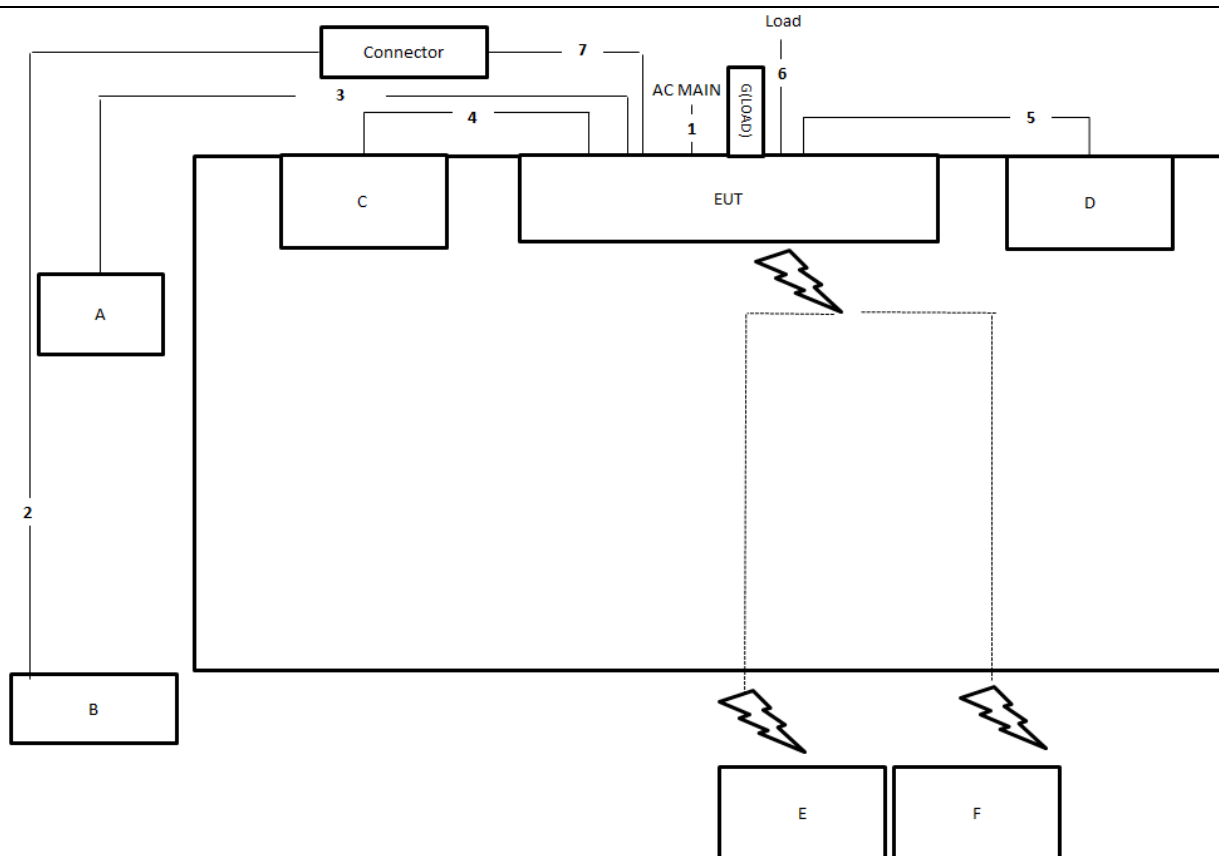
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Switch	GCOM	GL5600-08P	N/A
B	NB (LAN)	DELL	E4300	N/A
C	Phone	SAMPO	HT-B 907WL	N/A
D	Phone	SAMPO	HT-B 907WL	N/A
E	NB (WIFI 2.4G)	DELL	E4300	N/A
F	NB (WIFI 5G)	DELL	E4300	N/A
G	Flash disk3.0	Silicon Power	B06	N/A

For Radiated (above 1GHz) and RF Conducted:

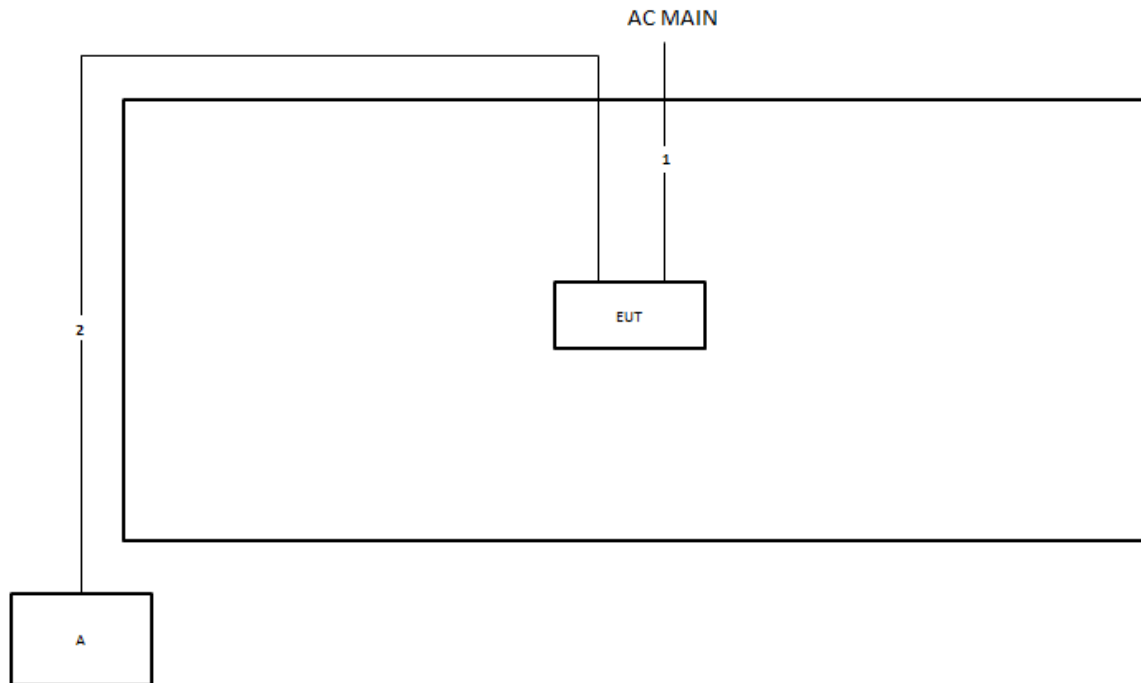
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.2m
2	RJ-45 cable	No	10m
3	Fiber cable	No	10m
4	RJ-11 cable	No	1.5m
5	RJ-11 cable	No	1.5m
6	RJ-45 cable*3	No	1.0m
7	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.2m
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.		

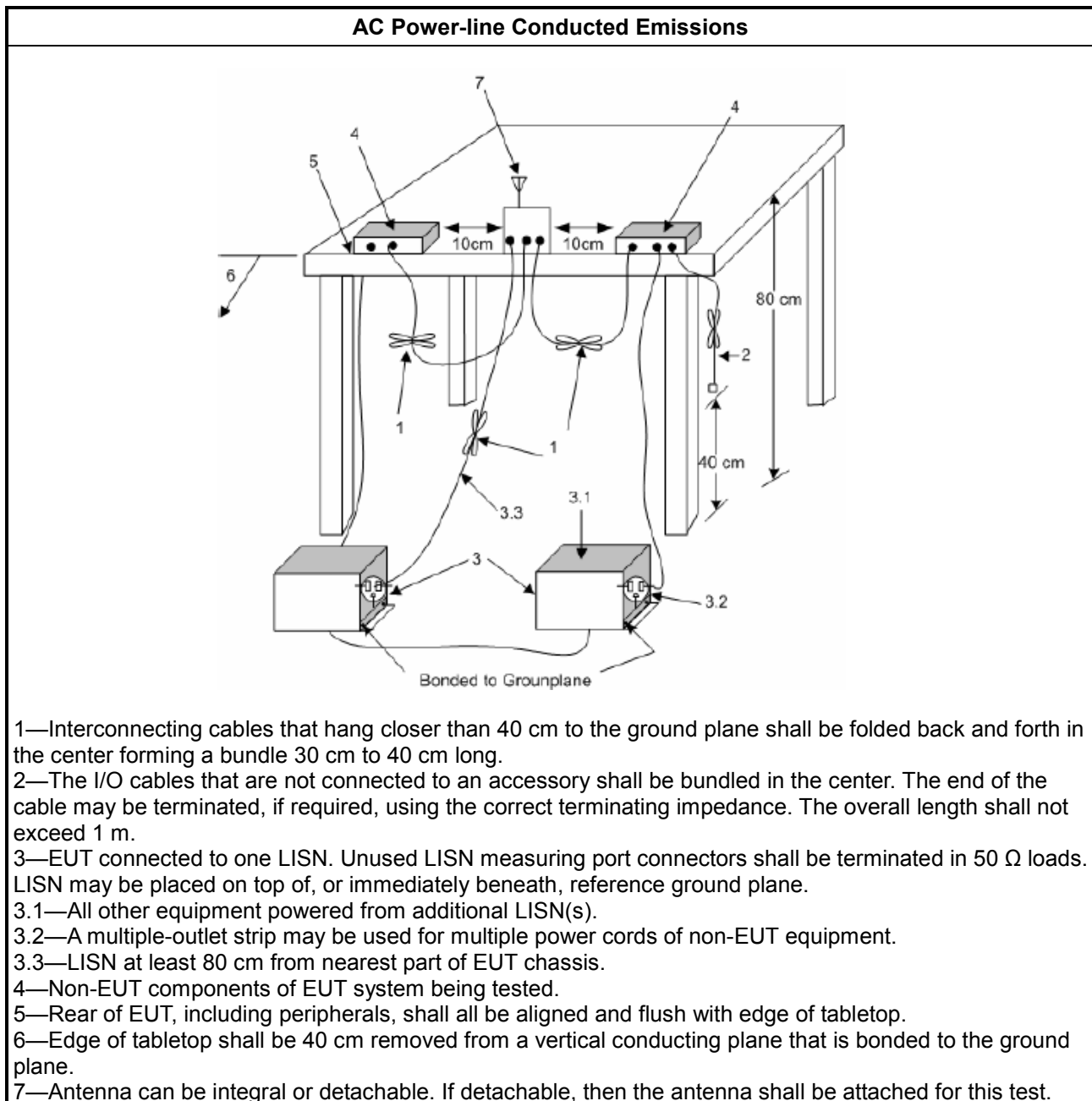
3.1.2 Measuring Instruments

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.

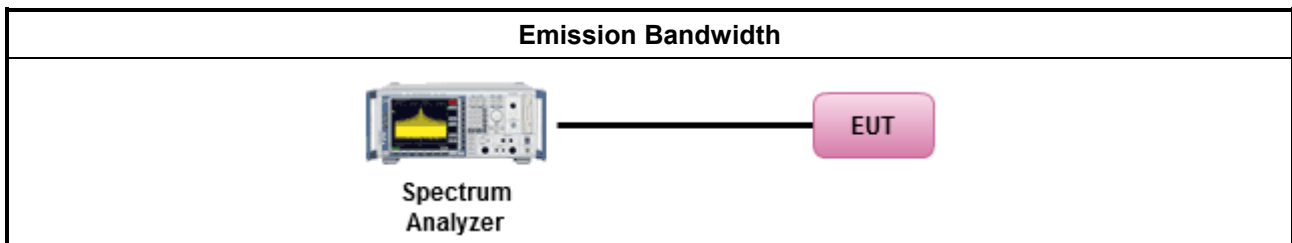
3.2.2 Measuring Instruments

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.	

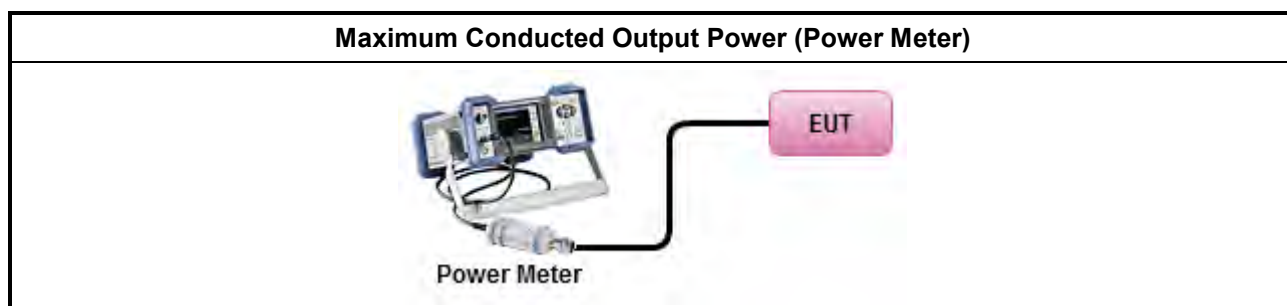
3.3.2 Measuring Instruments

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

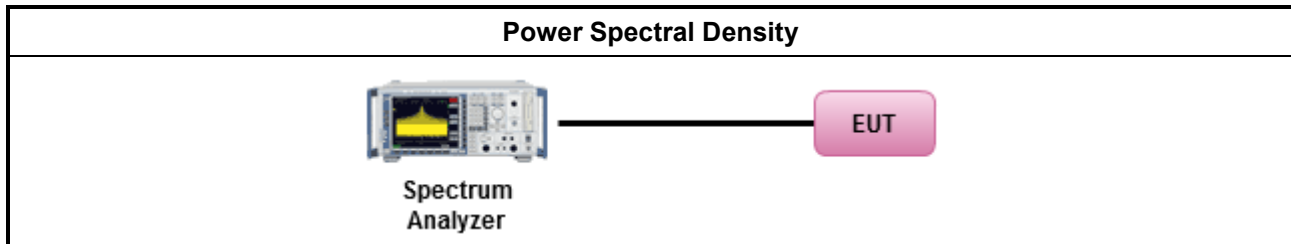
3.4.2 Measuring Instruments

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.	

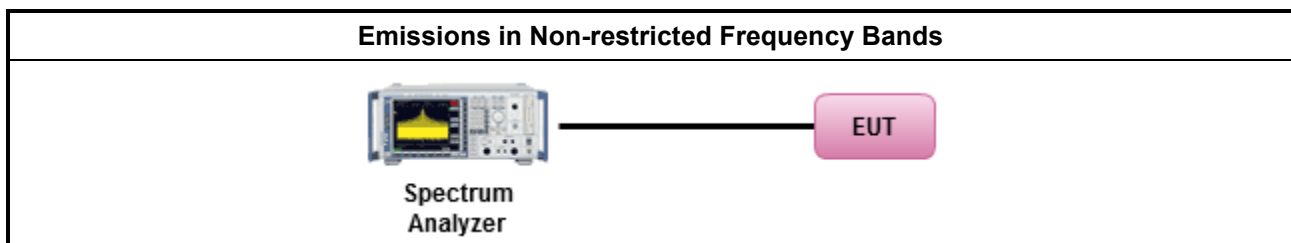
3.5.2 Measuring Instruments

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

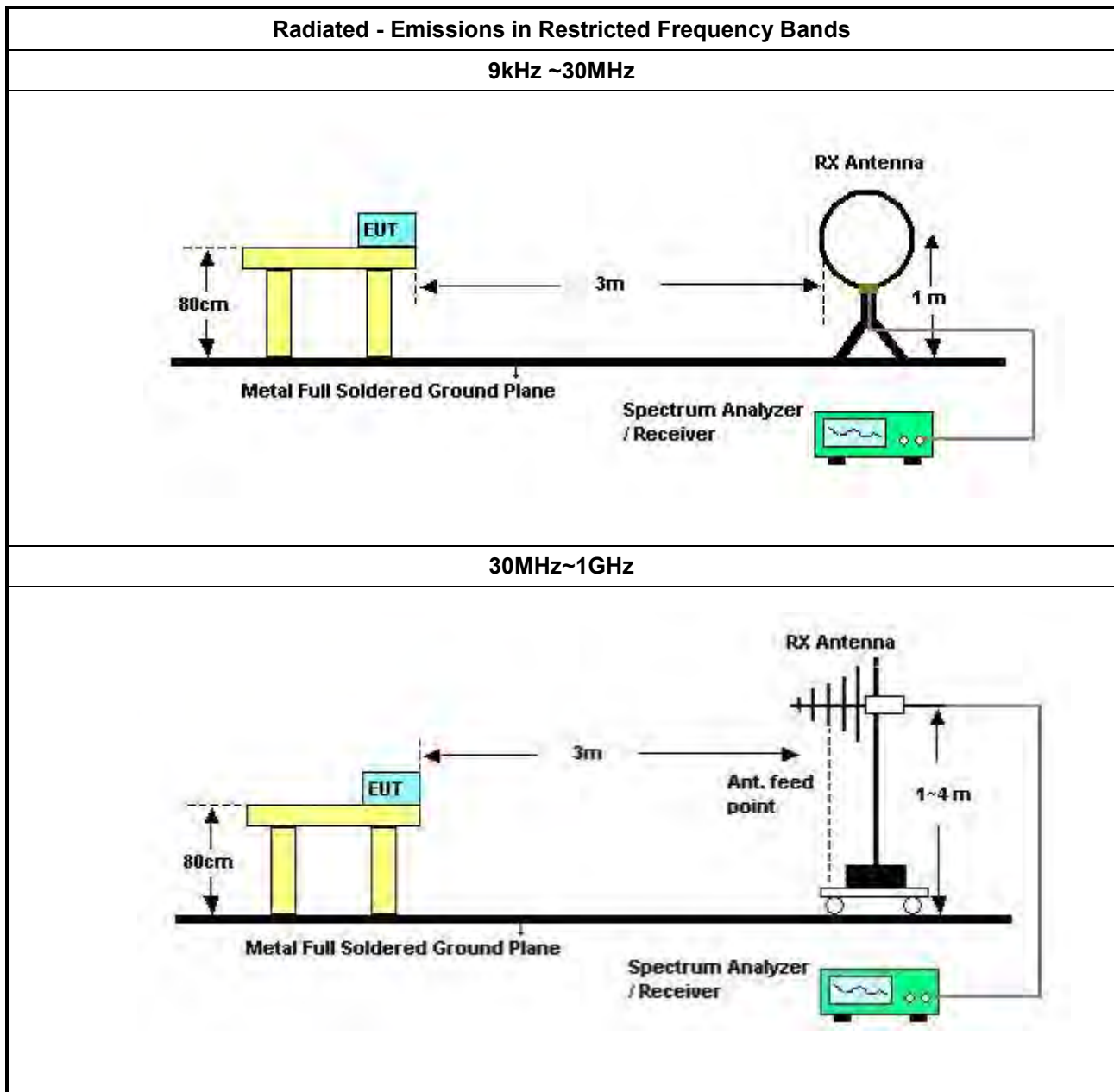
Refer a test equipment and calibration data table in this test report.

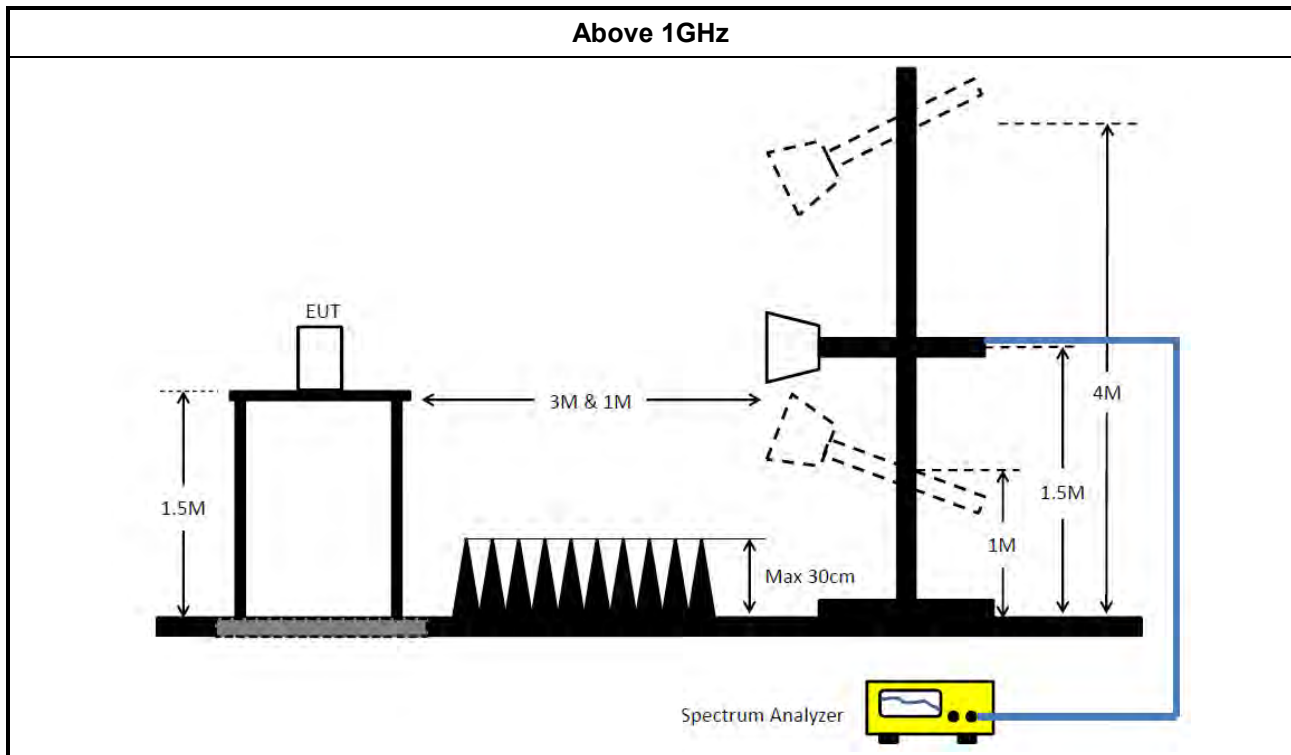


3.6.3 Test Procedures

Test Method	
The average emission levels shall be measured in [duty cycle ≥ 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	MY52260140	9kHz ~ 8.4GHz	May 06, 2022	May 05, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 20, 2022	Dec. 19, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 16, 2023	Feb. 15, 2024	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. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH01-CB	30 MHz ~ 1 GHz	Jan. 16, 2023	Jan. 15, 2024	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 21, 2022	Feb. 20, 2023	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 19, 2023	Feb. 18, 2024	Radiation (03CH01-CB)
Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-16+17	30 MHz ~ 1 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 17, 2023	Jan. 16, 2024	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 21, 2022	Feb. 20, 2023	Radiation (03CH03-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 19, 2023	Feb. 18, 2024	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 09, 2023	Jan. 08, 2024	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 10, 2022	Jun. 09, 2023	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Sep. 30, 2022	Sep. 29, 2023	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Aug. 09, 2022	Aug. 08, 2023	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug 02, 2022	Aug 01, 2023	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-68	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Dec. 21, 2022	Dec. 20, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 15, 2022	Aug. 14, 2023	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 17, 2022	Oct. 16, 2023	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 17, 2022	Oct. 16, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)

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Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

NCR means Non-Calibration required.



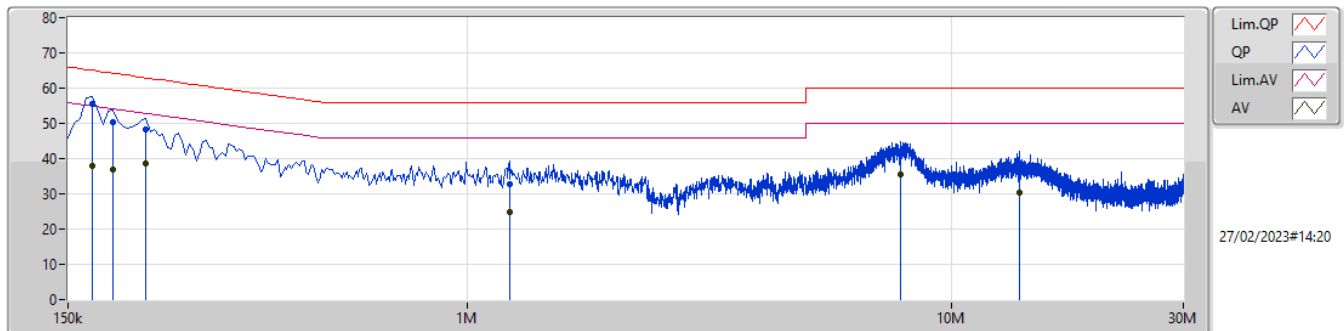
Conducted Emissions at Powerline

Appendix A

Summary

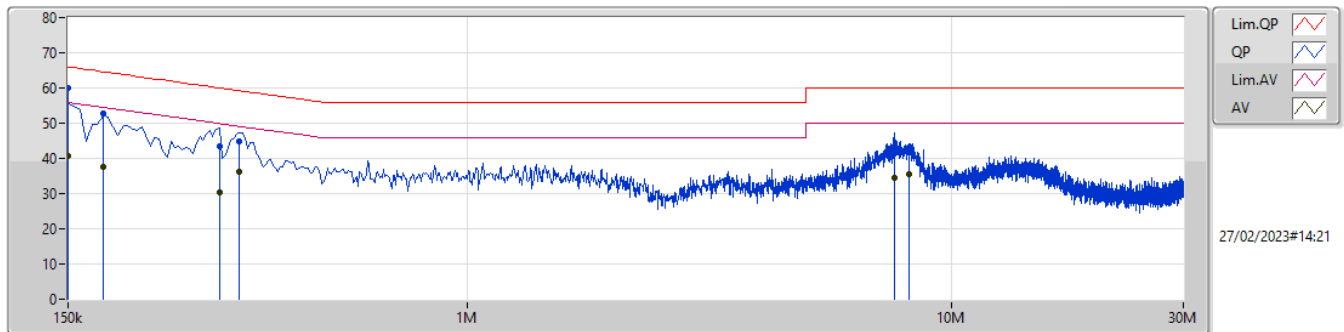
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	150k	60.14	66.00	-5.86	Neutral

Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	168k	55.66	65.06	-9.40	9.97	Line	"Worst"	45.69	0.06	0.04	9.87						
AV	168k	37.78	55.06	-17.28	9.97	Line	-	27.81	0.06	0.04	9.87						
QP	186k	50.34	64.20	-13.86	9.96	Line	-	40.38	0.06	0.04	9.86						
AV	186k	36.80	54.20	-17.40	9.96	Line	-	26.84	0.06	0.04	9.86						
QP	217.5k	48.12	62.92	-14.80	9.96	Line	-	38.16	0.06	0.04	9.86						
AV	217.5k	38.51	52.92	-14.41	9.96	Line	-	28.55	0.06	0.04	9.86						
QP	1.221M	32.89	56.00	-23.11	10.03	Line	-	22.86	0.08	0.05	9.90						
AV	1.221M	24.84	46.00	-21.16	10.03	Line	-	14.81	0.08	0.05	9.90						
QP	7.836M	42.10	60.00	-17.90	10.26	Line	-	31.84	0.19	0.14	9.93						
AV	7.836M	35.41	50.00	-14.59	10.26	Line	-	25.15	0.19	0.14	9.93						
QP	13.772M	37.33	60.00	-22.67	10.40	Line	-	26.93	0.26	0.17	9.97						
AV	13.772M	30.42	50.00	-19.58	10.40	Line	-	20.02	0.26	0.17	9.97						

Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	60.14	66.00	-5.86	9.98	Neutral	"Worst"	50.16	0.07	0.04	9.87						
AV	150k	40.83	56.00	-15.17	9.98	Neutral	-	30.85	0.07	0.04	9.87						
QP	177k	52.63	64.62	-11.99	9.98	Neutral	-	42.65	0.07	0.04	9.87						
AV	177k	37.73	54.62	-16.89	9.98	Neutral	-	27.75	0.07	0.04	9.87						
QP	307.5k	43.42	60.03	-16.61	10.00	Neutral	-	33.42	0.07	0.05	9.88						
AV	307.5k	30.37	50.03	-19.66	10.00	Neutral	-	20.37	0.07	0.05	9.88						
QP	339k	44.76	59.23	-14.47	10.02	Neutral	-	34.74	0.07	0.06	9.89						
AV	339k	36.11	49.23	-13.12	10.02	Neutral	-	26.09	0.07	0.06	9.89						
QP	7.625M	41.58	60.00	-18.42	10.28	Neutral	-	31.30	0.21	0.14	9.93						
AV	7.625M	34.61	50.00	-15.39	10.28	Neutral	-	24.33	0.21	0.14	9.93						
QP	8.129M	41.84	60.00	-18.16	10.30	Neutral	-	31.54	0.22	0.15	9.93						
AV	8.129M	35.39	50.00	-14.61	10.30	Neutral	-	25.09	0.22	0.15	9.93						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.025M	12.623M	12M6G1D	7.525M	12.377M
802.11g_Nss1,(6Mbps)_2TX	16.3M	16.822M	16M8D1D	15.65M	16.545M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.75M	19.027M	19M0D1D	17.675M	18.905M
802.11ax HEW40_Nss1,(MCS0)_2TX	35.35M	37.76M	37M8D1D	34.75M	37.613M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

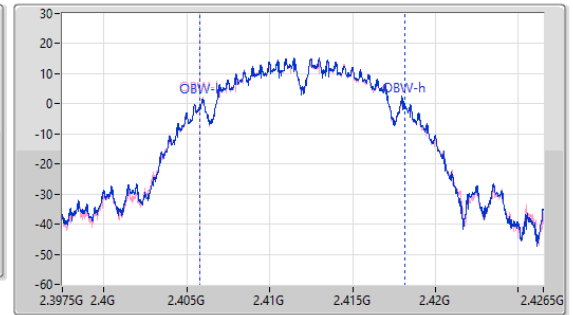
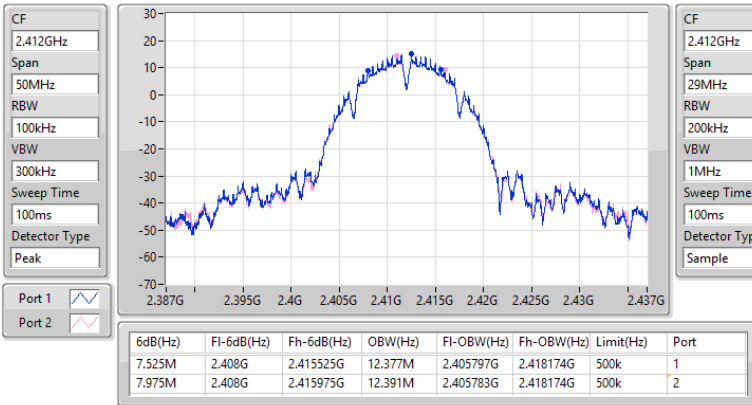
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.525M	12.377M	7.975M	12.391M
2437MHz	Pass	500k	7.55M	12.536M	7.975M	12.623M
2462MHz	Pass	500k	8.025M	12.507M	8.025M	12.522M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.275M	16.567M	16.3M	16.545M
2437MHz	Pass	500k	16.25M	16.822M	15.7M	16.737M
2462MHz	Pass	500k	15.65M	16.545M	16.275M	16.545M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.75M	18.905M	18.475M	18.954M
2437MHz	Pass	500k	18.3M	19.002M	17.675M	19.027M
2462MHz	Pass	500k	17.725M	18.954M	18.6M	18.954M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.05M	37.613M	35.05M	37.662M
2437MHz	Pass	500k	35.05M	37.76M	35.1M	37.662M
2452MHz	Pass	500k	35.35M	37.662M	34.75M	37.662M

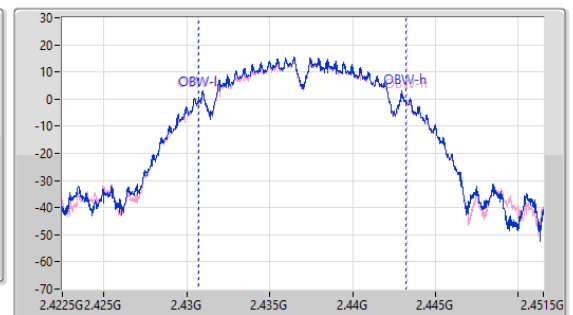
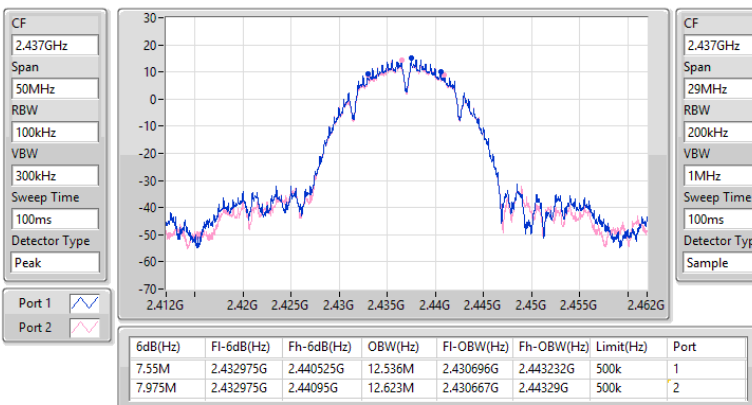
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

03/01/2023

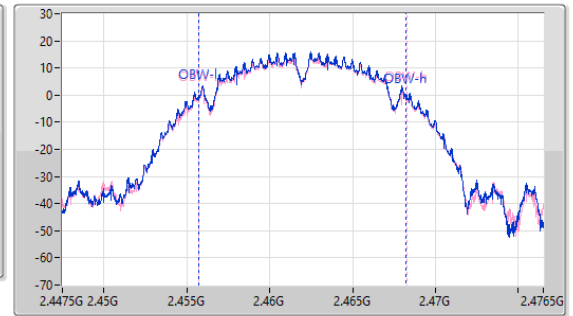
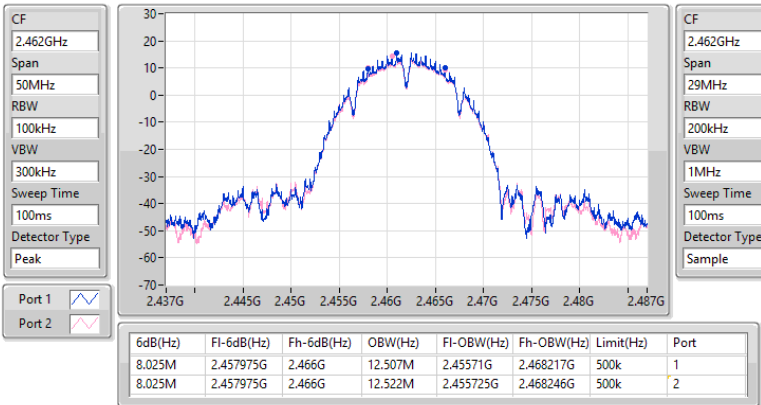

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

03/01/2023

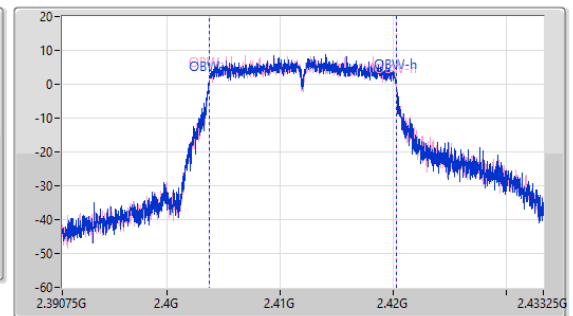
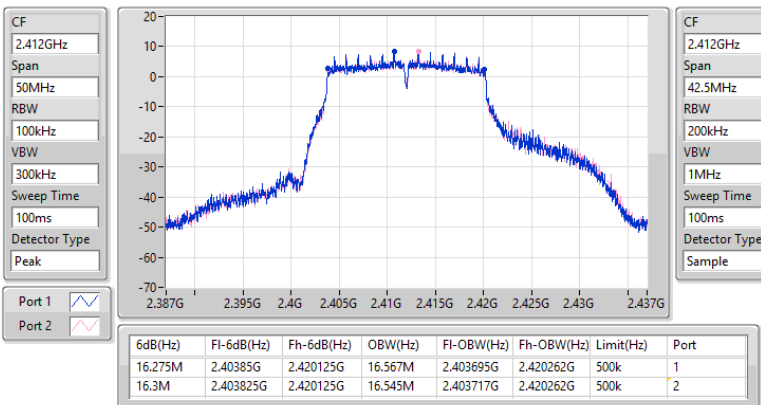


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

03/01/2023

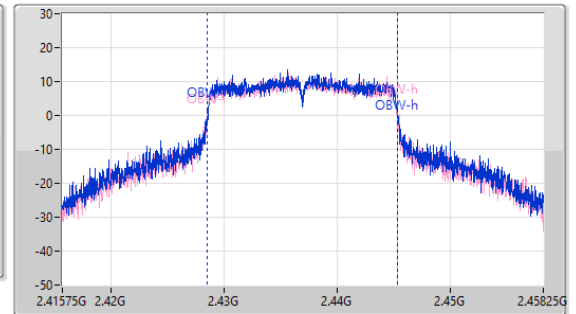
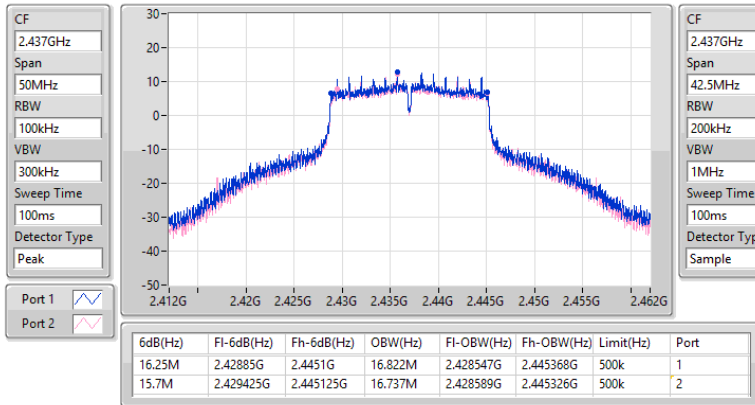

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

03/01/2023

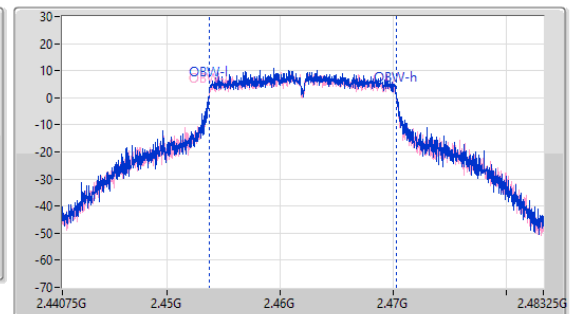
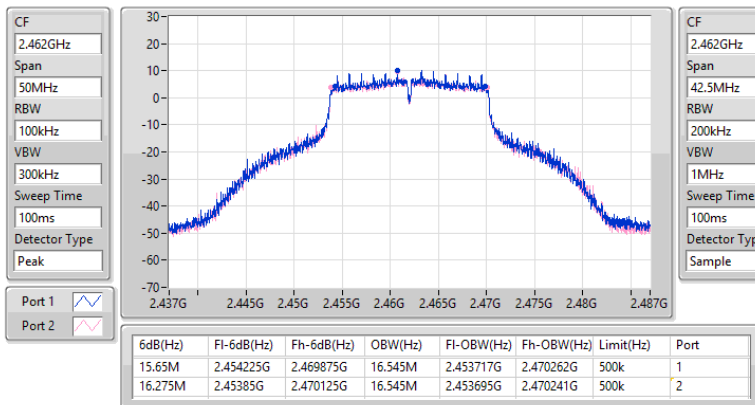


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

03/01/2023

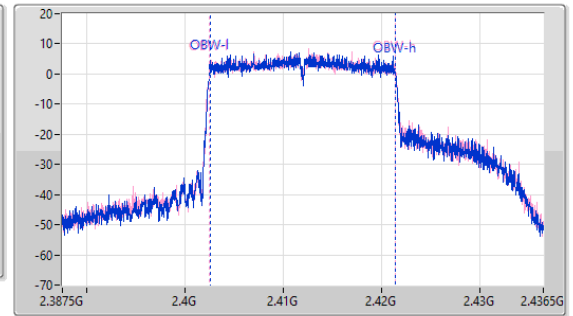
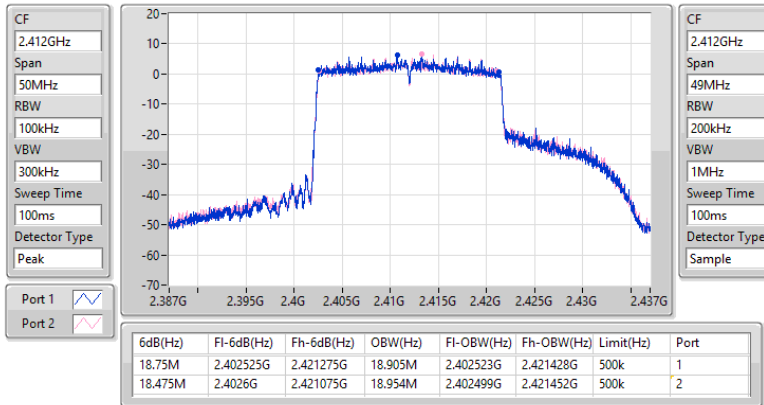

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

03/01/2023

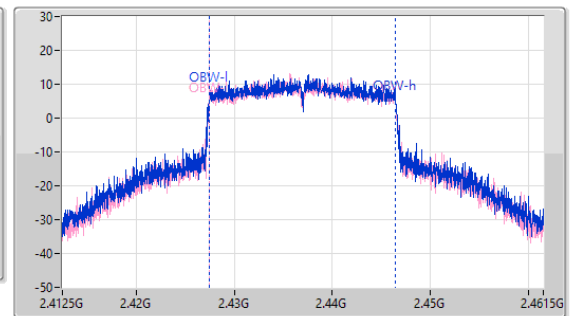
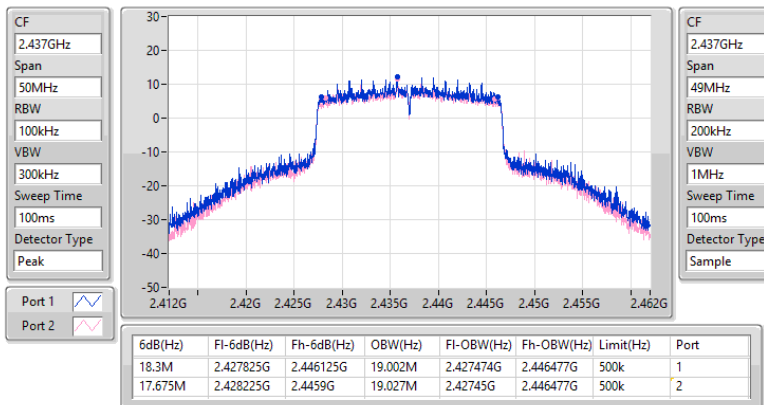


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2412MHz

03/01/2023

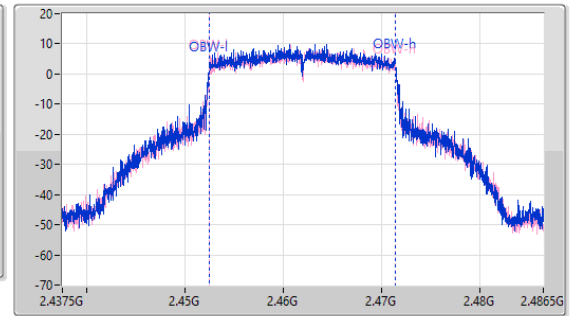
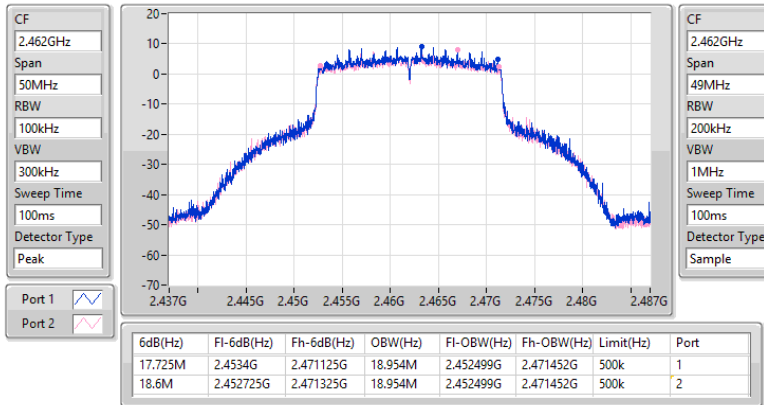

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2437MHz

03/01/2023

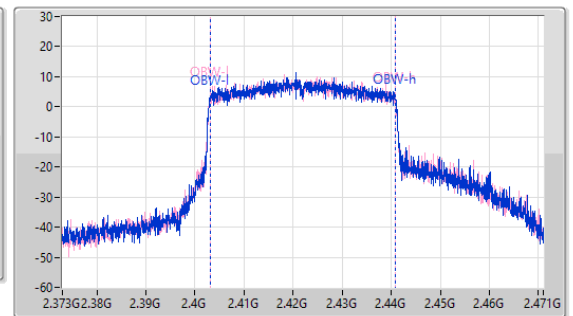
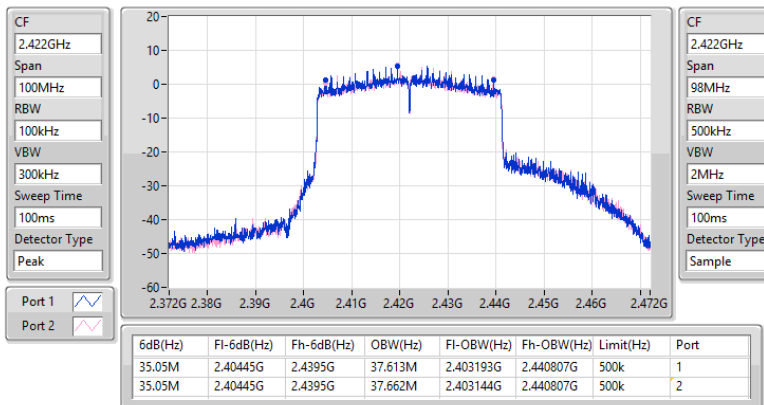


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2462MHz

03/01/2023

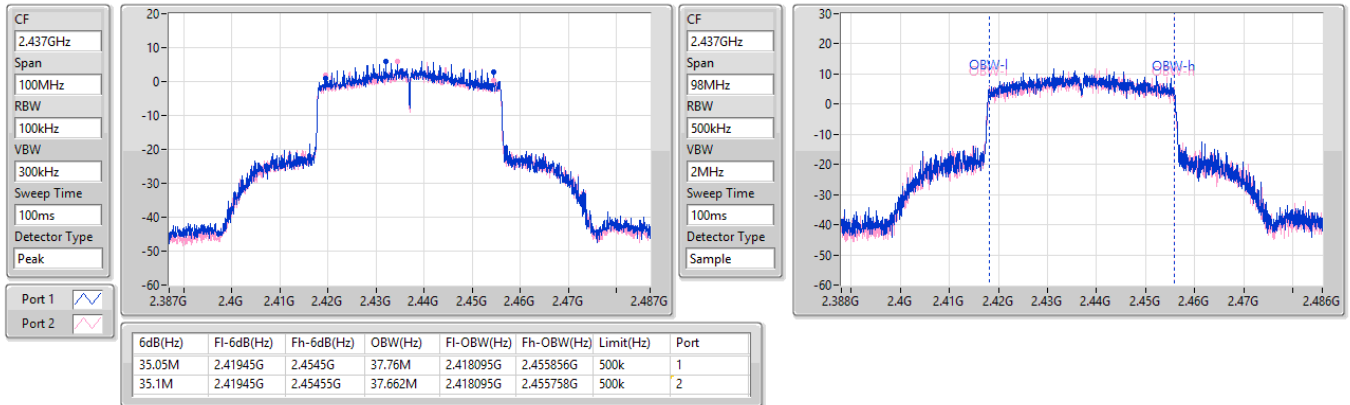

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2422MHz

03/01/2023

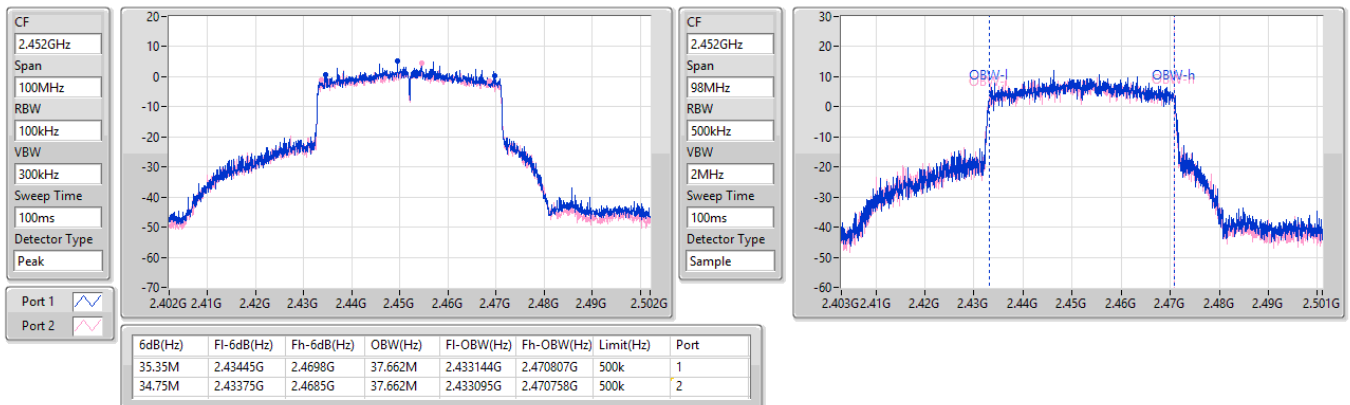


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2437MHz

03/01/2023


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2452MHz

03/01/2023





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	26.33	0.42954
802.11g_Nss1,(6Mbps)_2TX	25.57	0.36058
802.11ax HEW20_Nss1,(MCS0)_2TX	25.37	0.34435
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	25.37	0.34435
802.11ax HEW40_Nss1,(MCS0)_2TX	22.17	0.16482
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	22.17	0.16482

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.11	22.94	22.91	25.94	30.00
2437MHz	Pass	2.11	23.28	22.79	26.05	30.00
2462MHz	Pass	2.11	23.6	23.01	26.33	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.11	18.72	18.66	21.70	30.00
2417MHz	Pass	2.11	20.33	20.23	23.29	30.00
2437MHz	Pass	2.11	22.71	22.4	25.57	30.00
2462MHz	Pass	2.11	20.44	19.96	23.22	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.11	17.3	17.38	20.35	30.00
2417MHz	Pass	2.11	19.83	19.89	22.87	30.00
2437MHz	Pass	2.11	22.63	22.07	25.37	30.00
2457MHz	Pass	2.11	21.08	20.57	23.84	30.00
2462MHz	Pass	2.11	19.45	18.92	22.20	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.11	18.32	18.39	21.37	30.00
2437MHz	Pass	2.11	19.41	18.89	22.17	30.00
2452MHz	Pass	2.11	18.37	17.94	21.17	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.56	17.3	17.38	20.35	30.00
2417MHz	Pass	3.56	19.83	19.89	22.87	30.00
2437MHz	Pass	3.56	22.63	22.07	25.37	30.00
2457MHz	Pass	3.56	21.08	20.57	23.84	30.00
2462MHz	Pass	3.56	19.45	18.92	22.20	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.56	18.32	18.39	21.37	30.00
2437MHz	Pass	3.56	19.41	18.89	22.17	30.00
2452MHz	Pass	3.56	18.37	17.94	21.17	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	3.42
802.11g_Nss1,(6Mbps)_2TX	-0.32
802.11ax HEW20_Nss1,(MCS0)_2TX	-1.63
802.11ax HEW40_Nss1,(MCS0)_2TX	-7.2

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.56	-0.18	-0.05	2.12	8.00
2437MHz	Pass	3.56	0.99	-0.75	2.20	8.00
2462MHz	Pass	3.56	1.09	-0.38	3.42	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.56	-5.35	-6.73	-4.68	8.00
2437MHz	Pass	3.56	-2.27	-1.55	-0.32	8.00
2462MHz	Pass	3.56	-3.76	-4.96	-2.89	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.56	-7.58	-8.41	-6.33	8.00
2437MHz	Pass	3.56	-3.56	-3.64	-1.63	8.00
2462MHz	Pass	3.56	-7.11	-5.76	-4.61	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.56	-10.37	-9.96	-8.58	8.00
2437MHz	Pass	3.56	-8.93	-10.03	-7.20	8.00
2452MHz	Pass	3.56	-8.93	-10.39	-8.58	8.00

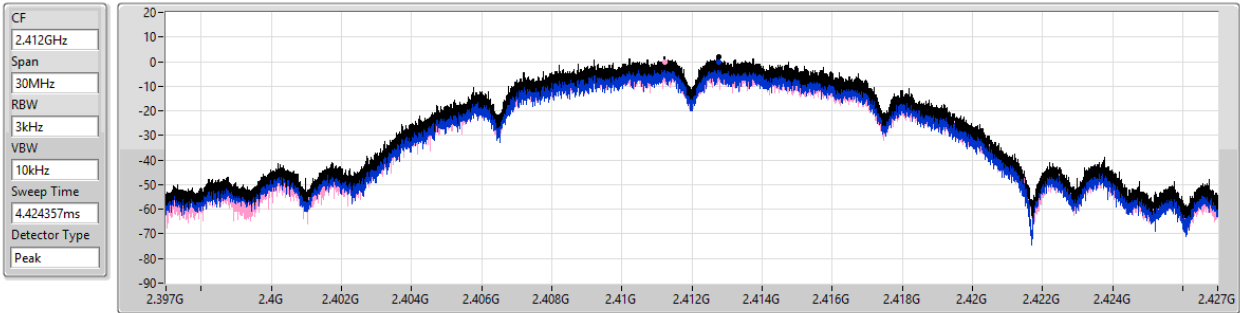
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz

PSD

03/01/2023



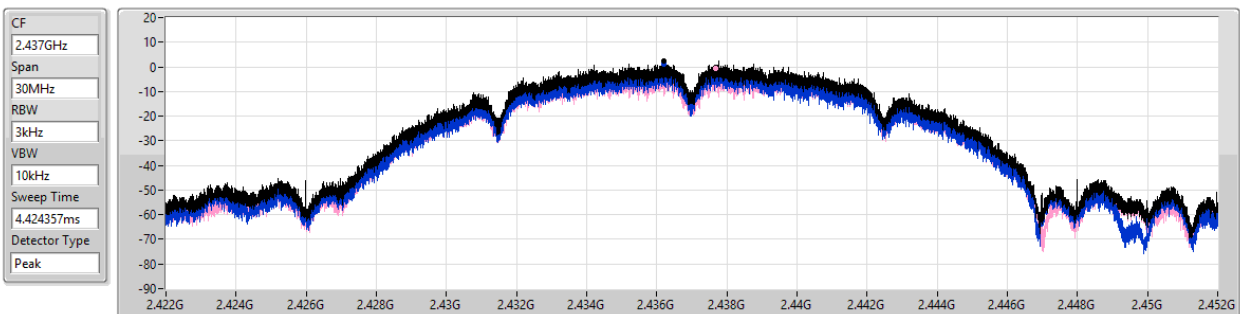
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.12	2.12	-0.18	-0.05

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz

PSD

03/01/2023



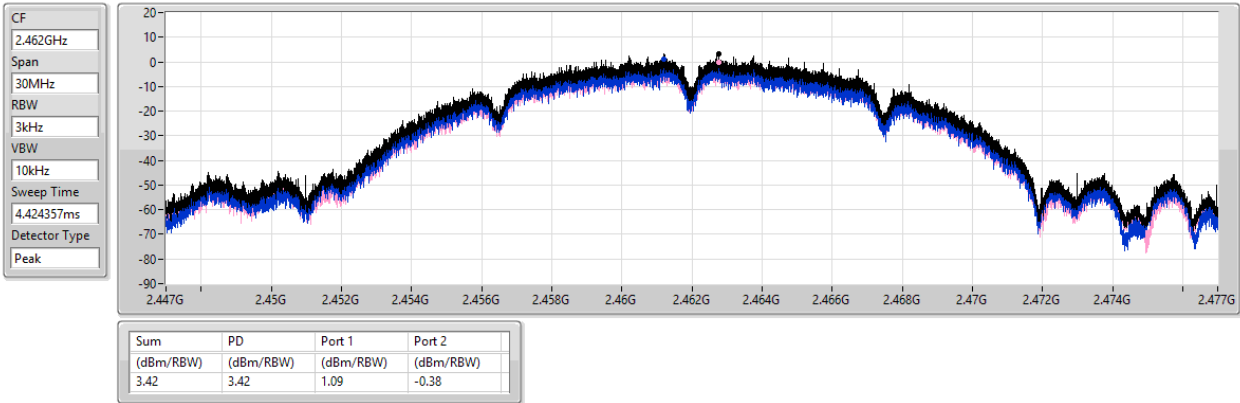
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.20	2.20	0.99	-0.75

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz

PSD

03/01/2023

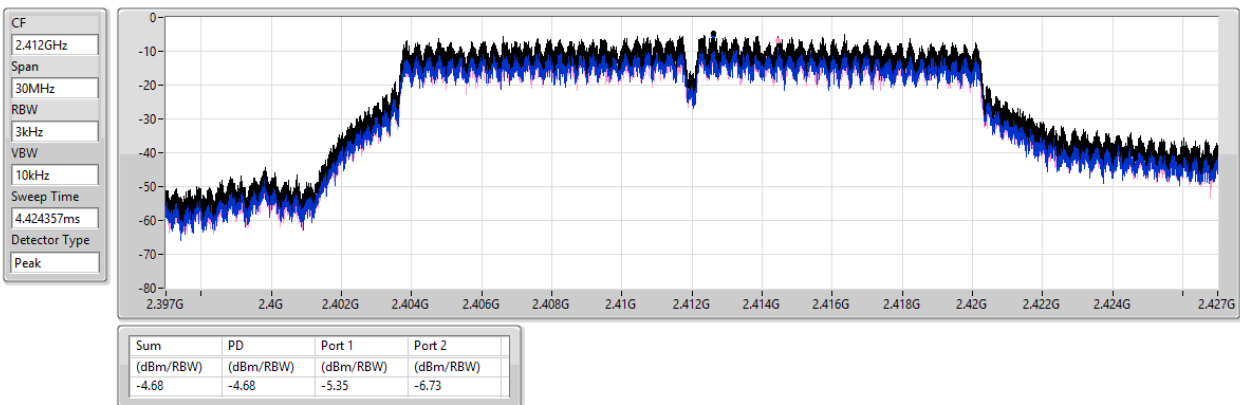


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz

PSD

03/01/2023

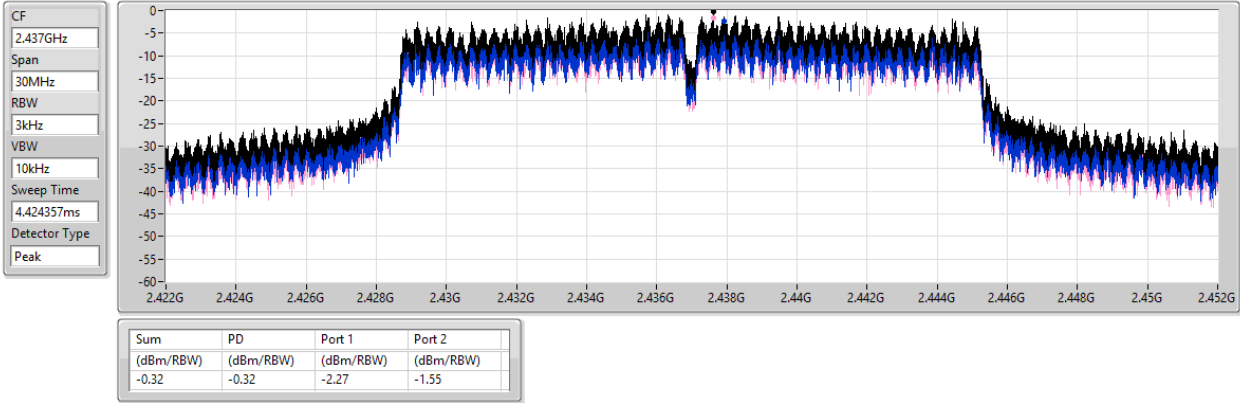


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz

PSD

03/01/2023

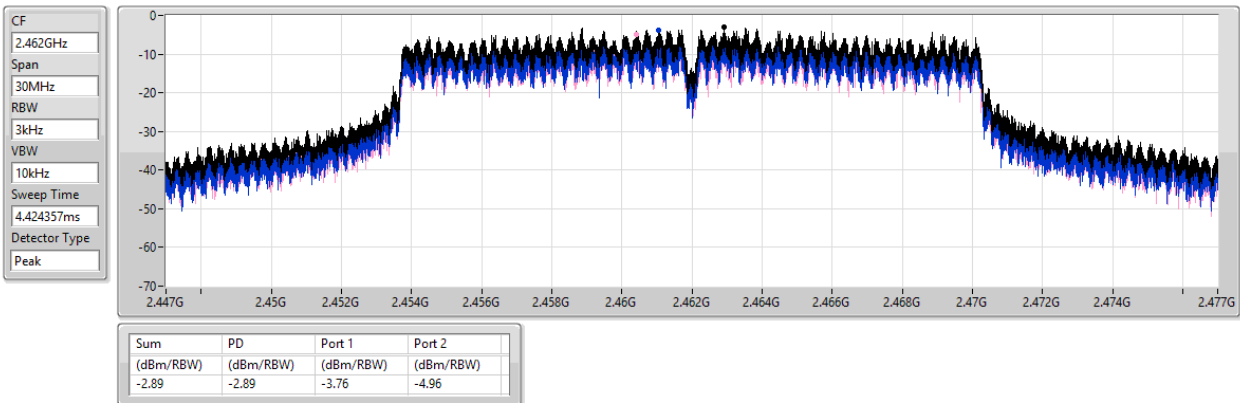


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz

PSD

03/01/2023

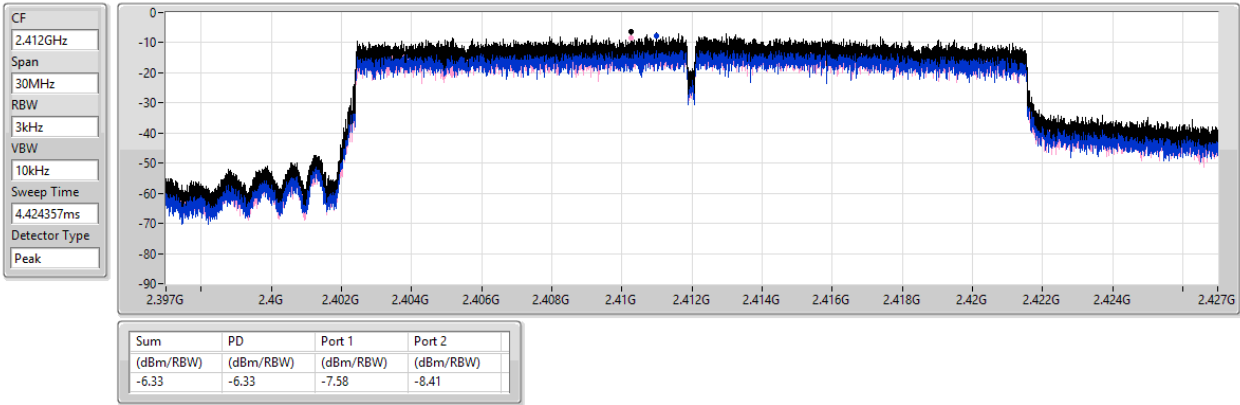


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz

PSD

03/01/2023

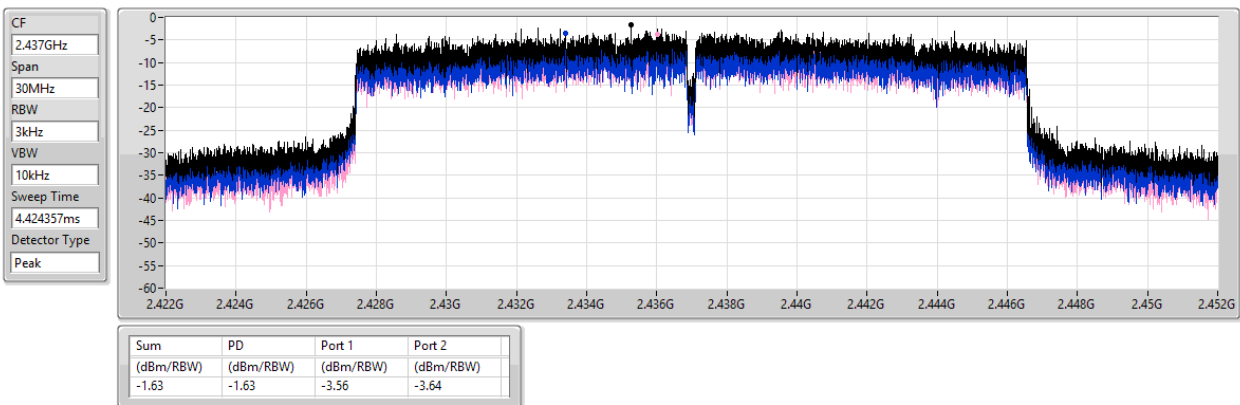


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz

PSD

03/01/2023

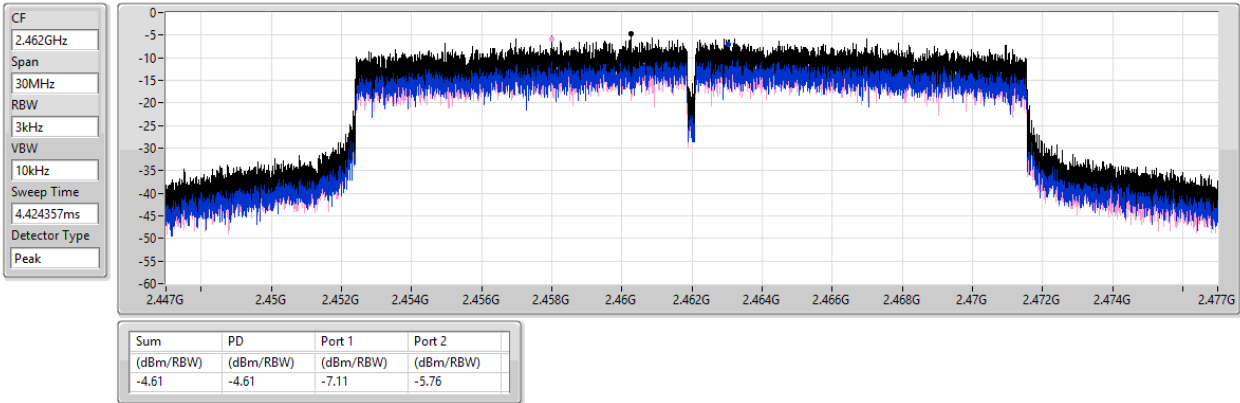


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz

PSD

03/01/2023

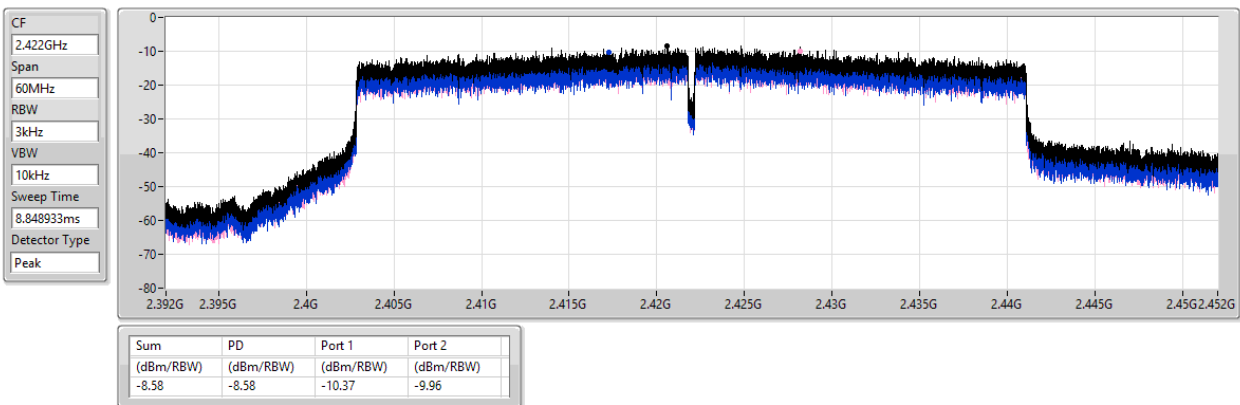


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz

PSD

03/01/2023

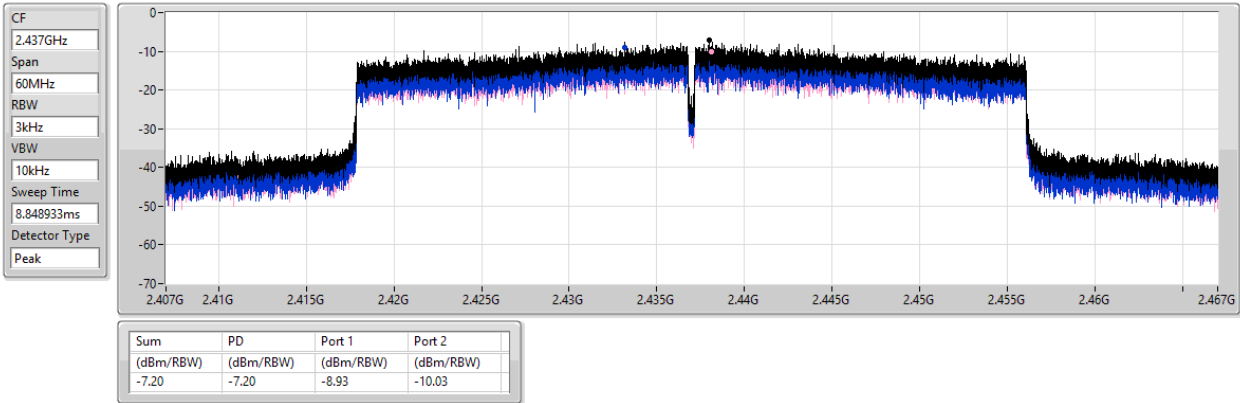


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz

PSD

03/01/2023

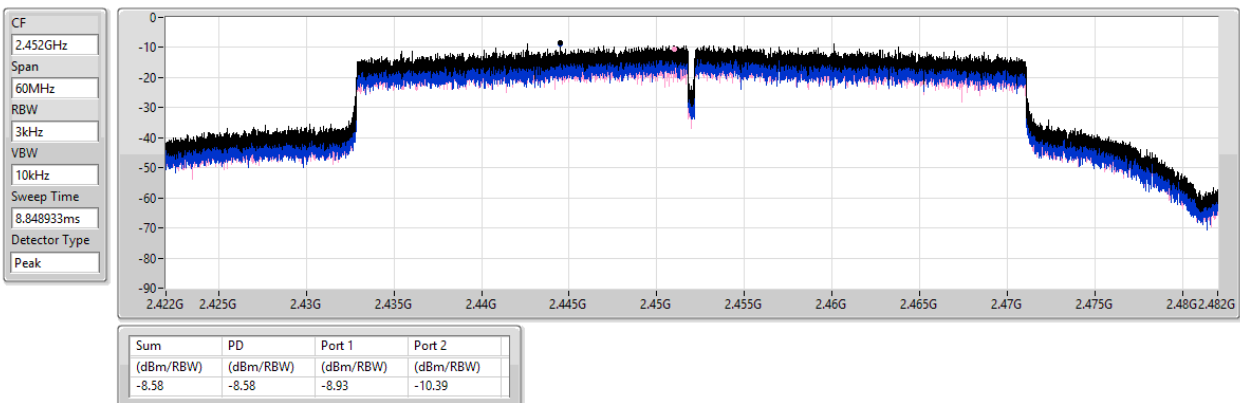


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz

PSD

03/01/2023





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43641G	15.49	-14.51	2.17244G	-53.54	2.4G	-28.01	2.4G	-28.81	2.51494G	-51.32	6.98789G	-47.98	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43824G	13.02	-16.98	2.30641G	-52.33	2.39984G	-29.54	2.4G	-33.84	2.50158G	-50.38	6.91766G	-48.53	2
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.43574G	12.34	-17.66	2.19807G	-43.43	2.3996G	-33.29	2.4G	-37.01	2.50286G	-46.05	2.67522G	-43.62	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.4344G	6.58	-23.42	2.30626G	-53.26	2.39952G	-29.86	2.4G	-30.84	2.50078G	-50.07	16.62277G	-47.91	2

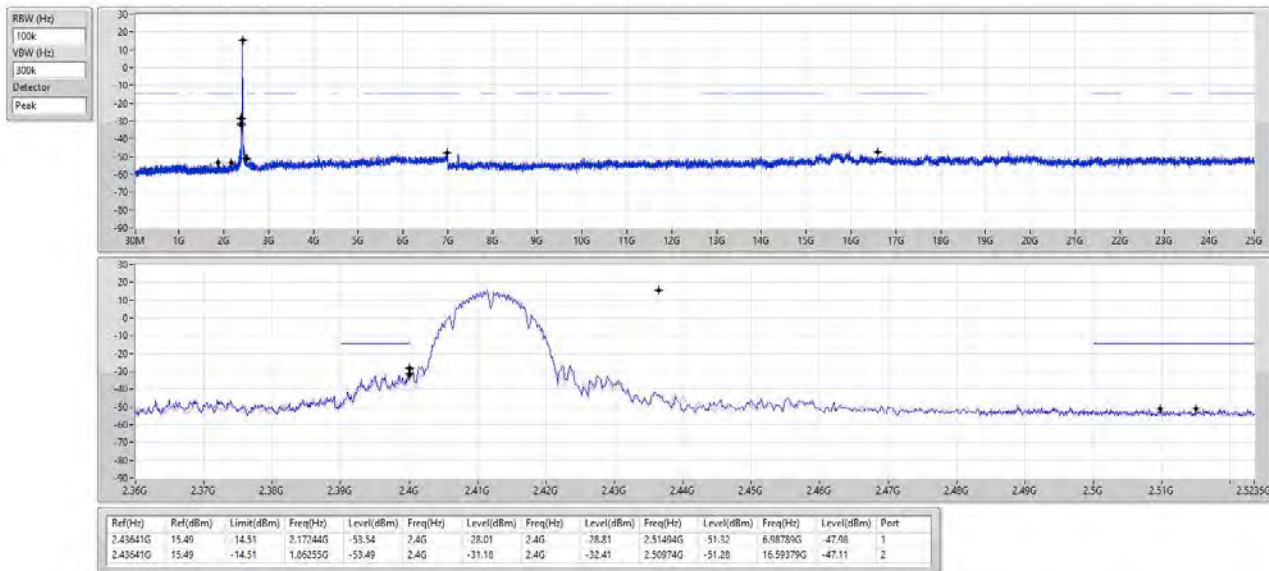
Result

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)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43641G	15.49	-14.51	2.17244G	-53.54	2.4G	-28.01	2.4G	-28.81	2.51494G	-51.32	6.98789G	-47.98	1
2412MHz	Pass	2.43641G	15.49	-14.51	1.86255G	-53.49	2.4G	-31.18	2.4G	-32.41	2.50974G	-51.28	16.59379G	-47.11	2
2437MHz	Pass	2.43641G	15.49	-14.51	2.19807G	-52.36	2.396G	-47.75	2.4G	-51.19	2.51398G	-49.80	16.20888G	-47.40	1
2437MHz	Pass	2.43641G	15.49	-14.51	2.17244G	-53.85	2.39856G	-48.29	2.4G	-52.56	2.51398G	-50.48	5.95398G	-47.62	2
2462MHz	Pass	2.43641G	15.49	-14.51	2.13982G	-53.03	2.39896G	-50.64	2.4G	-53.71	2.50094G	-48.12	17.67547G	-48.06	1
2462MHz	Pass	2.43641G	15.49	-14.51	805.89M	-52.35	2.39536G	-52.04	2.4G	-52.68	2.50702G	-49.31	5.83316G	-48.11	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	13.02	-16.98	2.17244G	-49.63	2.39984G	-30.61	2.4G	-31.98	2.52302G	-50.05	2.53193G	-42.59	1
2412MHz	Pass	2.43824G	13.02	-16.98	2.30641G	-52.33	2.39984G	-29.54	2.4G	-33.84	2.50158G	-50.38	6.91766G	-48.53	2
2437MHz	Pass	2.43824G	13.02	-16.98	2.19807G	-45.34	2.39608G	-33.28	2.4G	-35.07	2.5007G	-45.08	2.67522G	-44.73	1
2437MHz	Pass	2.43824G	13.02	-16.98	2.1969G	-53.31	2.3992G	-38.16	2.4G	-39.09	2.50014G	-47.62	15.26487G	-48.20	2
2462MHz	Pass	2.43824G	13.02	-16.98	2.08856G	-53.19	2.39856G	-50.11	2.4G	-50.54	2.50198G	-47.31	16.66403G	-48.24	1
2462MHz	Pass	2.43824G	13.02	-16.98	2.17593G	-53.34	2.39712G	-50.11	2.4G	-51.59	2.50318G	-47.10	17.67828G	-47.36	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	12.34	-17.66	2.17244G	-50.42	2.39984G	-37.28	2.4G	-40.34	2.51542G	-50.08	2.53193G	-44.40	1
2412MHz	Pass	2.43574G	12.34	-17.66	777.93M	-53.67	2.3996G	-38.41	2.4G	-40.97	2.52326G	-51.15	16.8326G	-48.57	2
2437MHz	Pass	2.43574G	12.34	-17.66	2.19807G	-43.43	2.3996G	-33.29	2.4G	-37.01	2.50286G	-46.05	2.67522G	-43.62	1
2437MHz	Pass	2.43574G	12.34	-17.66	2.30292G	-52.76	2.39968G	-37.03	2.4G	-39.27	2.50078G	-47.41	17.69514G	-48.02	2
2462MHz	Pass	2.43574G	12.34	-17.66	2.30292G	-52.95	2.39704G	-49.80	2.4G	-49.31	2.51022G	-48.11	17.02927G	-48.70	1
2462MHz	Pass	2.43574G	12.34	-17.66	2.30991G	-53.44	2.39992G	-50.98	2.4G	-51.66	2.50462G	-49.83	17.65299G	-48.64	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.4344G	6.58	-23.42	2.1826G	-44.28	2.4G	-30.78	2.4G	-31.28	2.5011G	-49.10	2.66166G	-44.59	1
2422MHz	Pass	2.4344G	6.58	-23.42	2.30626G	-53.26	2.39952G	-29.86	2.4G	-30.84	2.50078G	-50.07	16.62277G	-47.91	2
2437MHz	Pass	2.4344G	6.58	-23.42	2.19749G	-43.36	2.39984G	-37.12	2.4G	-36.94	2.50046G	-43.73	2.67568G	-43.77	1
2437MHz	Pass	2.4344G	6.58	-23.42	31.15M	-53.27	2.39984G	-36.94	2.4G	-37.41	2.50094G	-45.90	17.66046G	-48.14	2
2452MHz	Pass	2.4344G	6.58	-23.42	2.19978G	-52.61	2.39104G	-44.66	2.4G	-44.16	2.50702G	-42.83	2.68971G	-44.90	1
2452MHz	Pass	2.4344G	6.58	-23.42	2.18489G	-51.67	2.39456G	-46.47	2.4G	-47.18	2.50062G	-42.87	16.75178G	-48.00	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

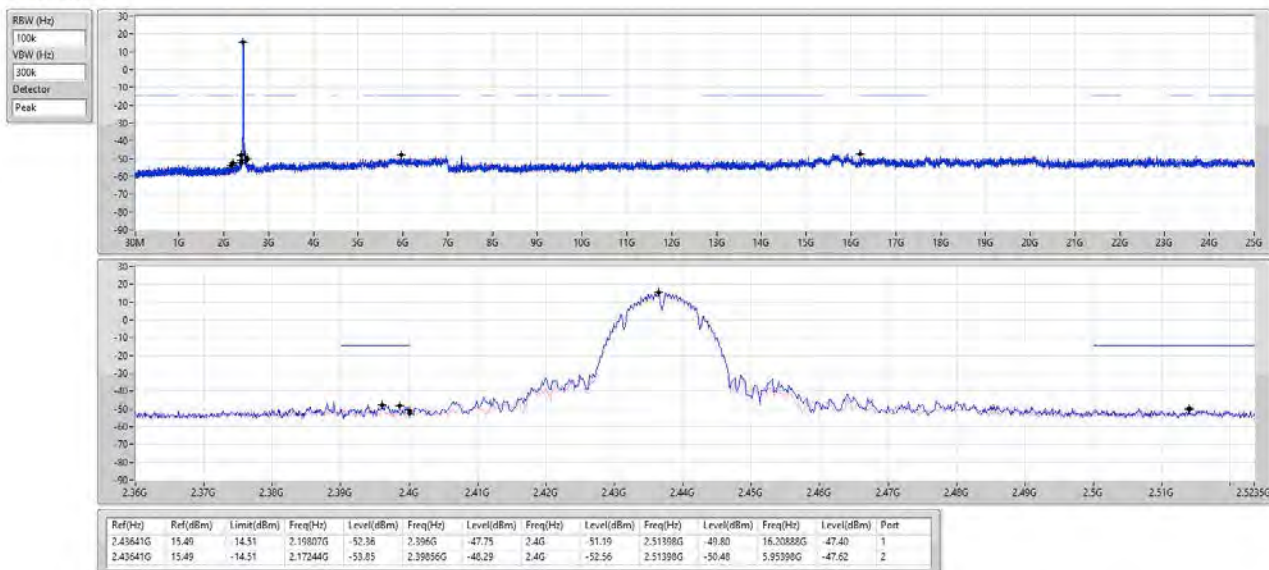
2412MHz



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

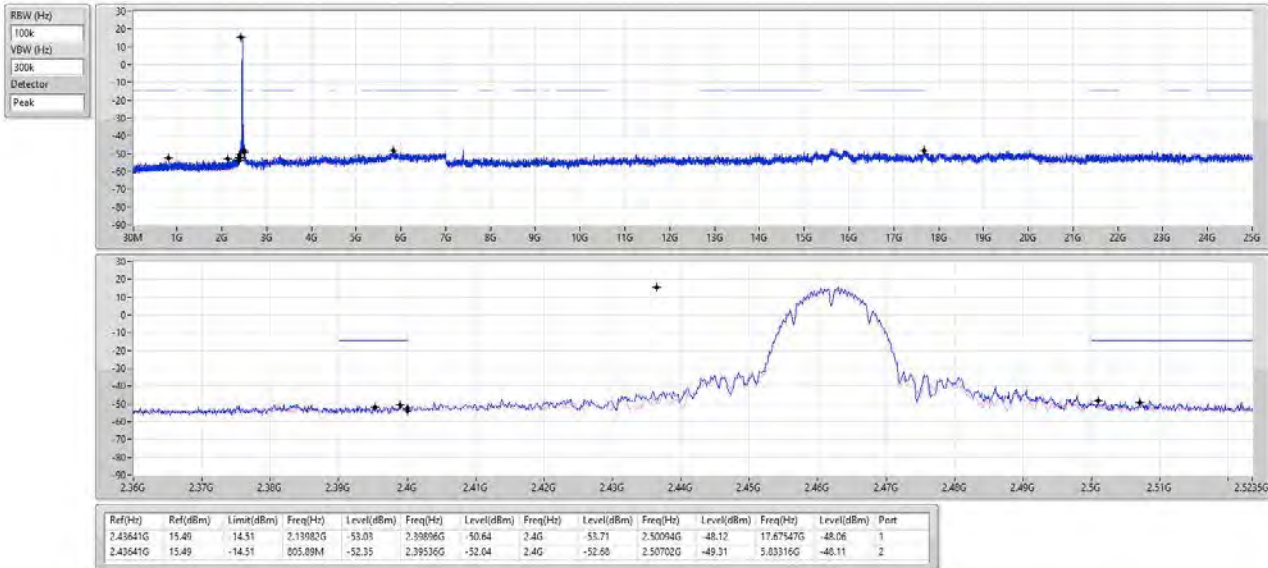
2437MHz



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz

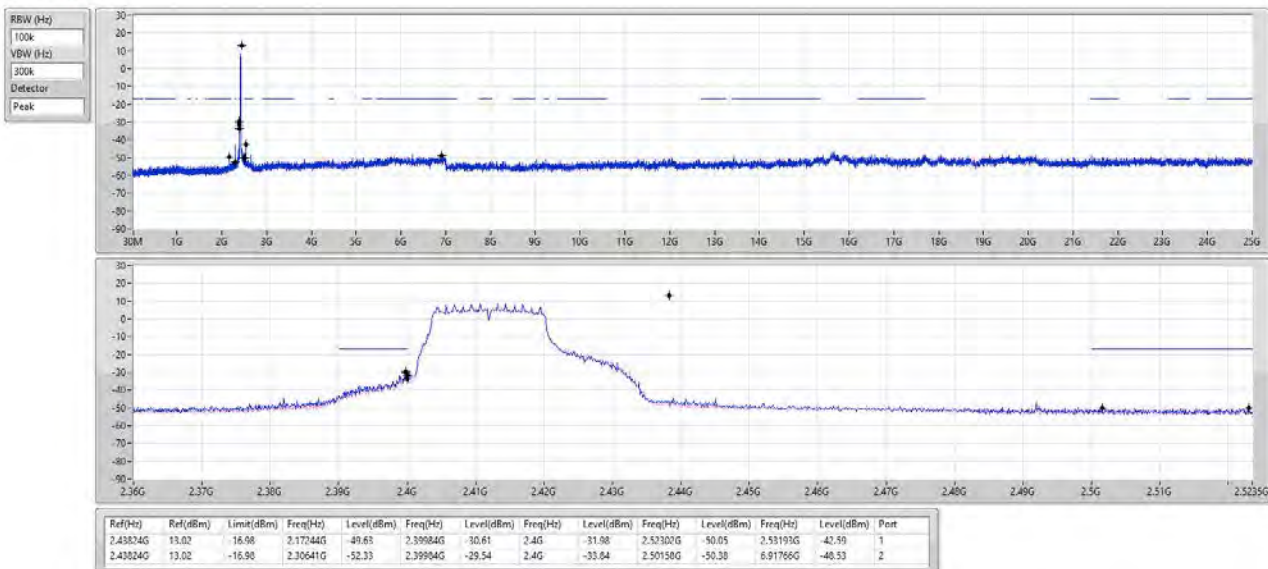
CSEndB



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz

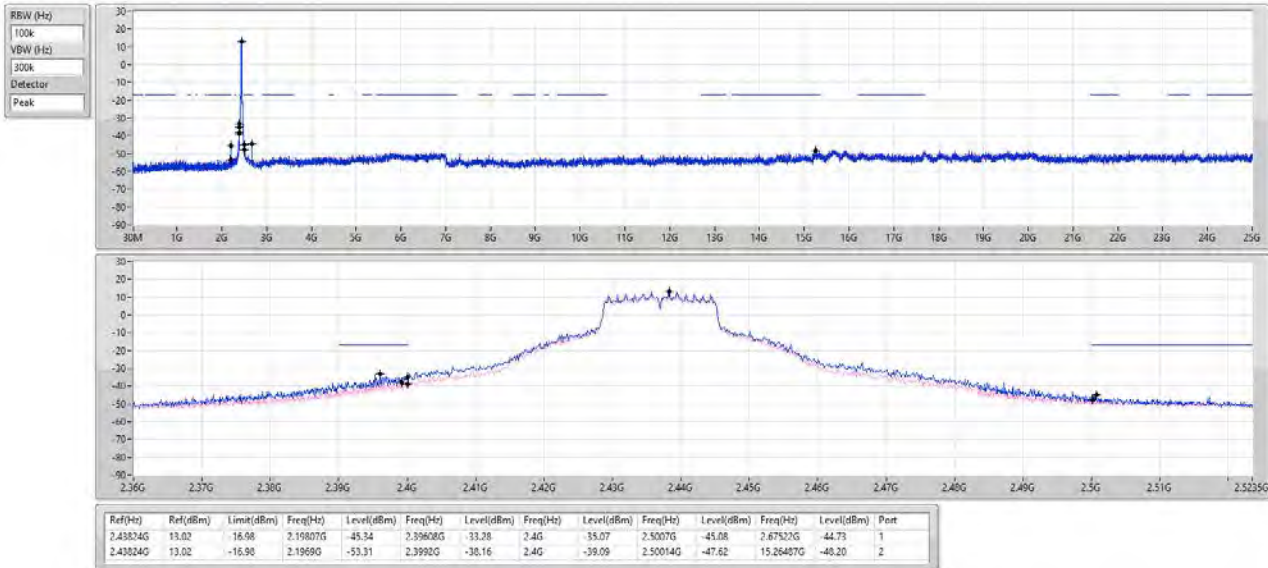
CSEndB



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz

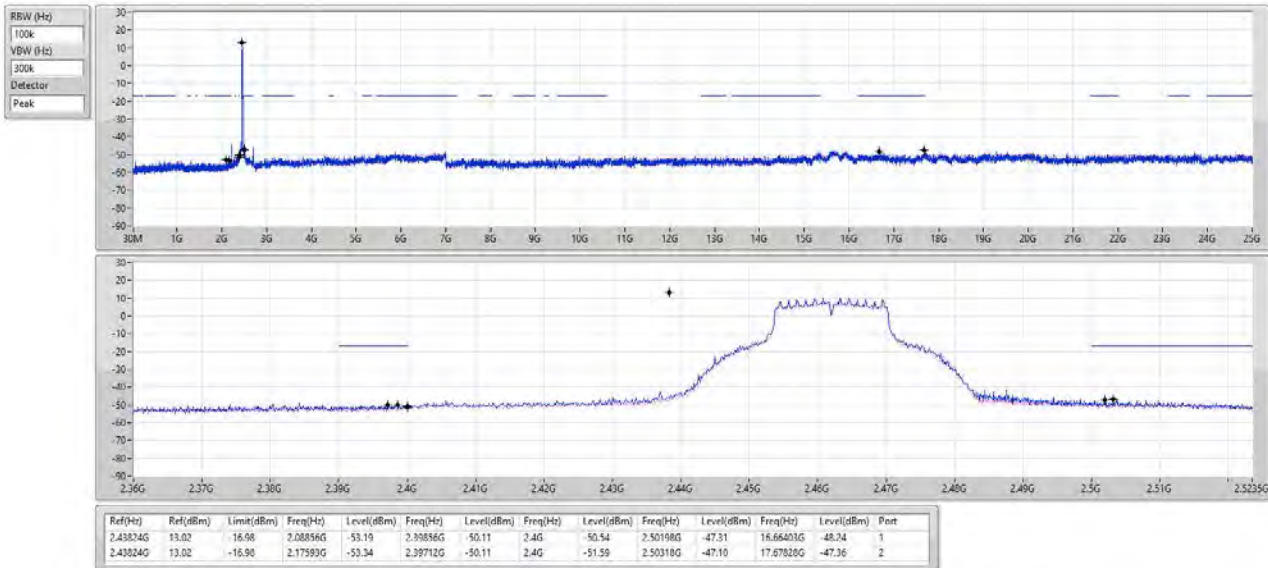
CSEndB



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz

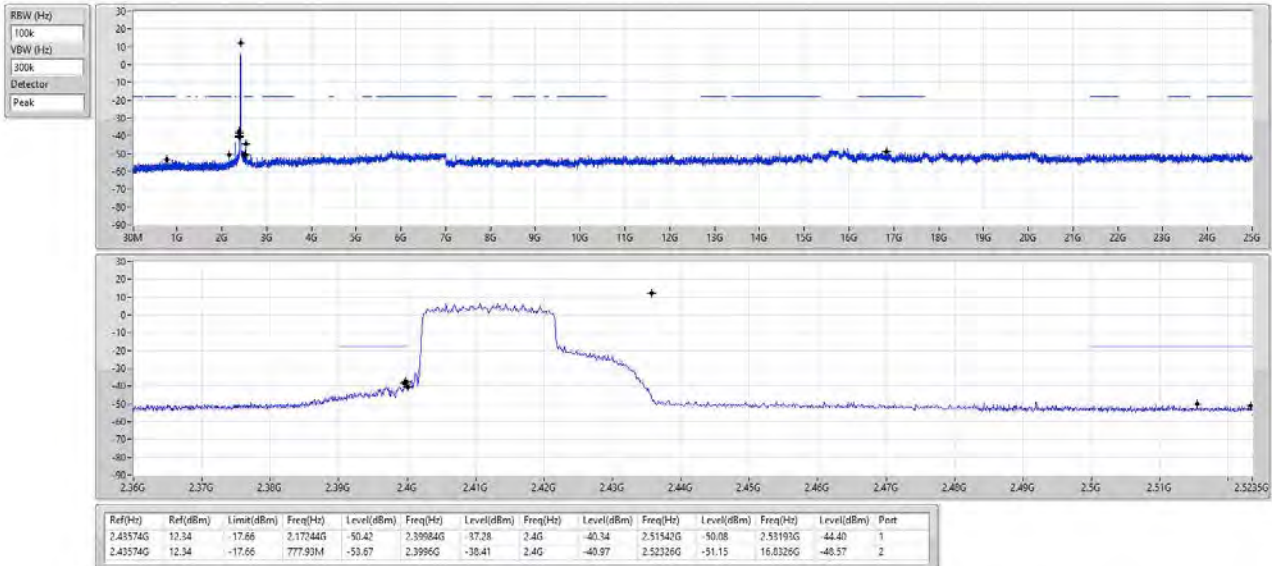
CSEndB



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

CSEndB

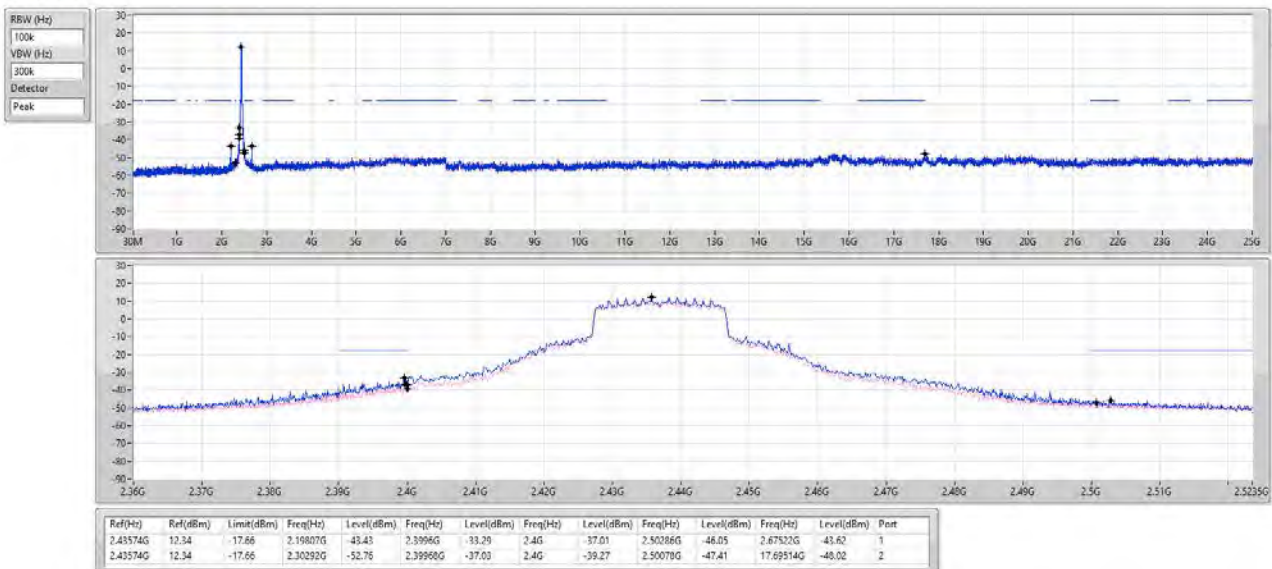
2412MHz



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

CSEndB

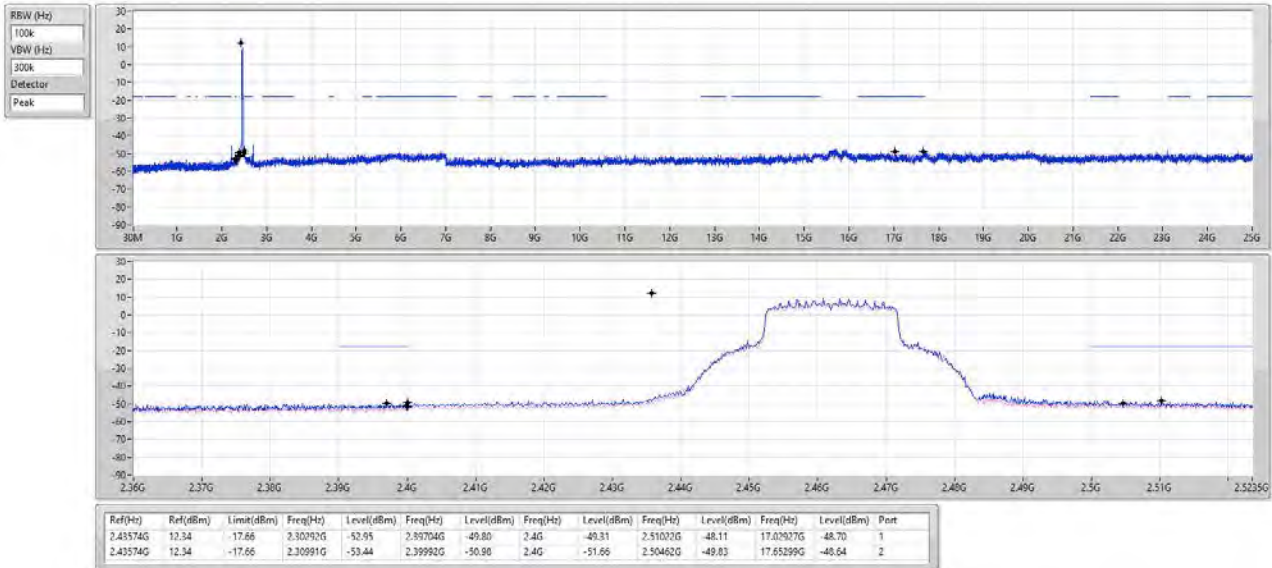
2437MHz



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

CSEndB

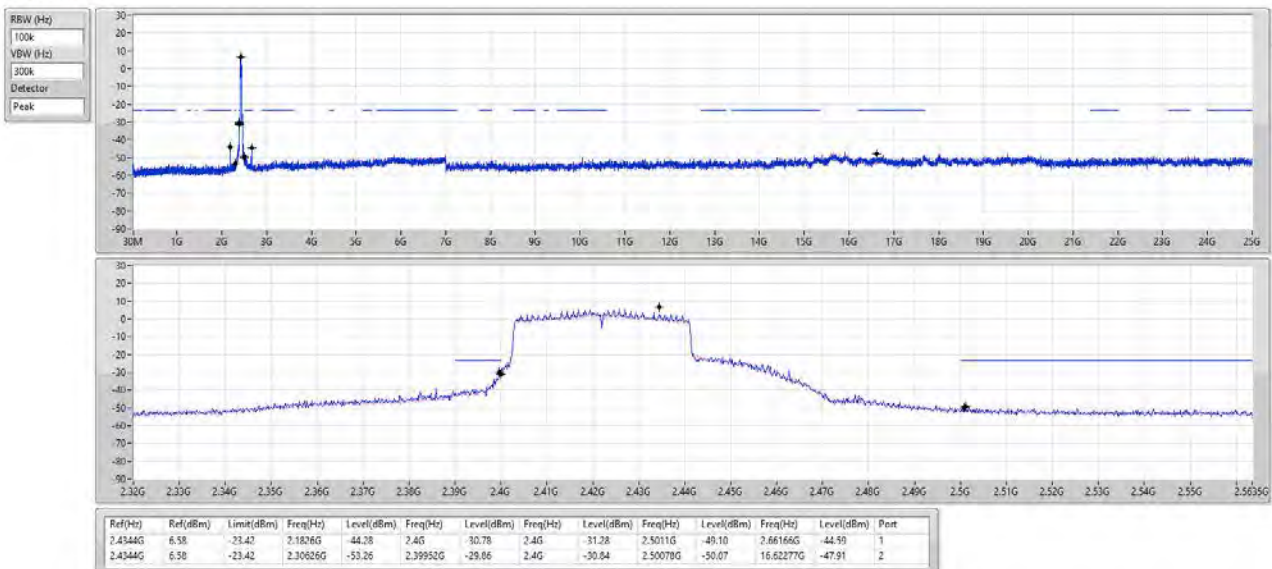
2462MHz



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

CSEndB

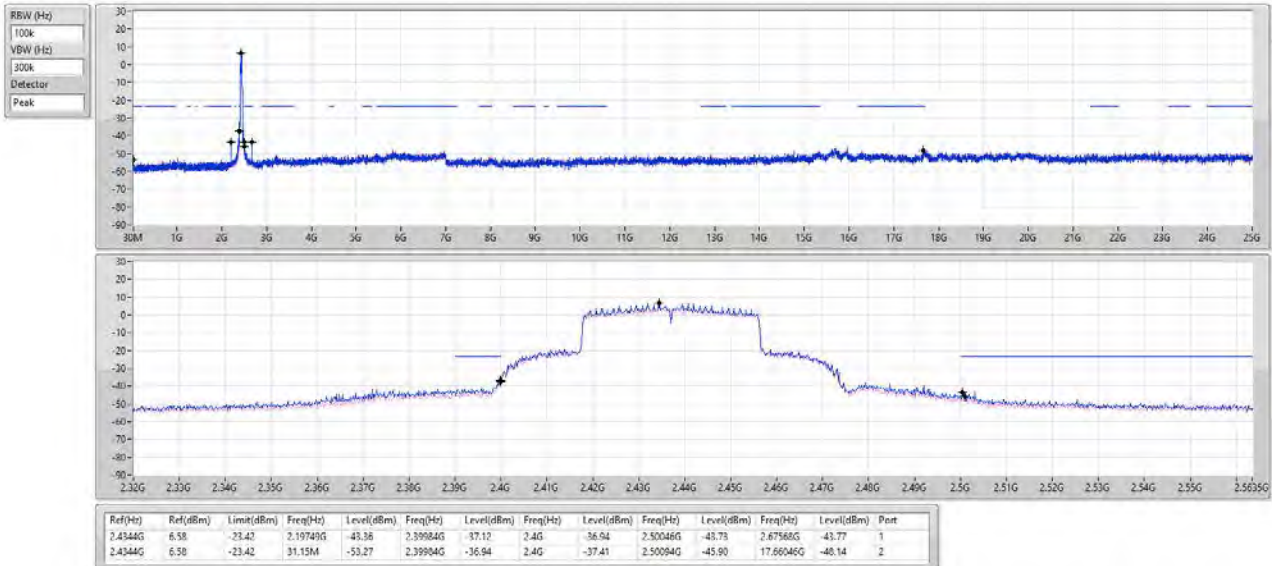
2422MHz



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

CSEndB

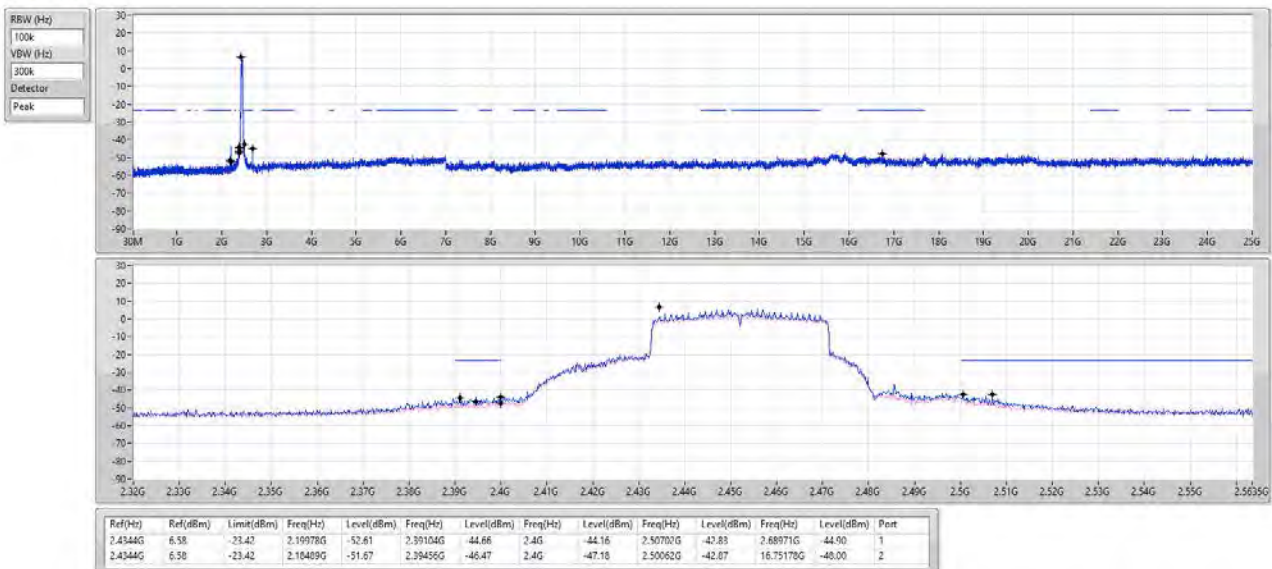
2437MHz



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

CSEndB

2452MHz





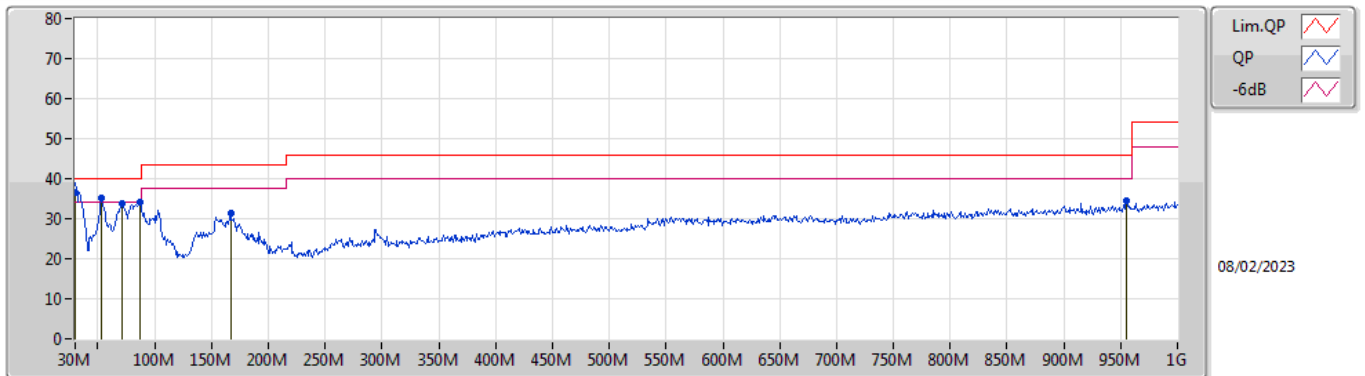
Radiated Emissions below 1GHz

Appendix F.1

Summary

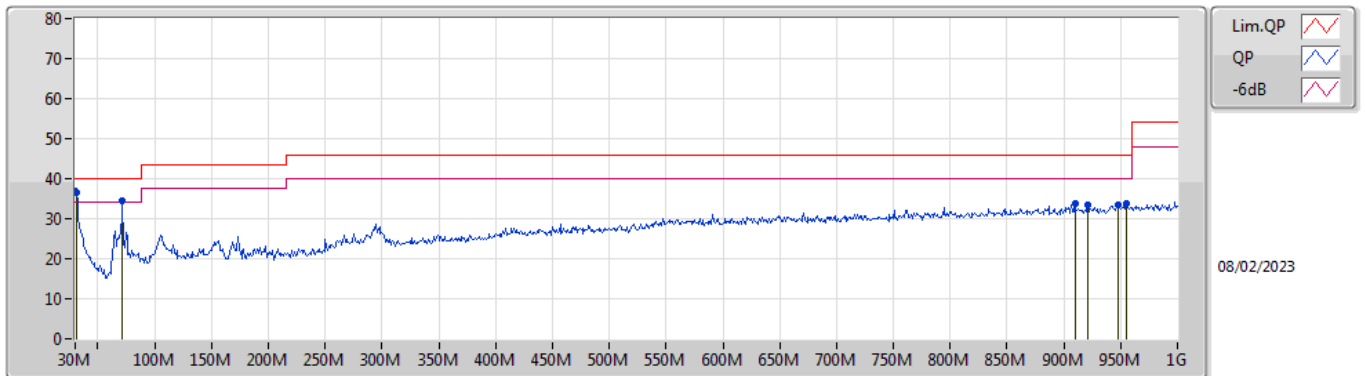
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	30.97M	36.65	40.00	-3.35	Horizontal

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	30M	36.45	40.00	-3.55	-2.55	3	Vertical	156	2.00	"Worst"	39.00	25.20	0.74	28.49
PK	53.28M	35.07	40.00	-4.93	-14.60	3	Vertical	257	1.00	-	49.67	13.05	0.96	28.61
PK	71.71M	33.79	40.00	-6.21	-15.02	3	Vertical	186	1.00	-	48.81	12.41	1.10	28.53
PK	87.23M	34.22	40.00	-5.78	-13.25	3	Vertical	134	1.25	-	47.47	14.11	1.21	28.57
PK	166.77M	31.55	43.50	-11.95	-11.12	3	Vertical	181	1.25	-	42.67	15.46	1.68	28.26
PK	955.38M	34.38	46.00	-11.62	2.44	3	Vertical	324	1.00	-	31.94	26.81	4.19	28.56

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	30.97M	36.65	40.00	-3.35	-3.25	3	Horizontal	135	2.00	"Worst"	39.90	24.50	0.75	28.50
PK	71.71M	34.44	40.00	-5.56	-15.02	3	Horizontal	273	2.00	-	49.46	12.41	1.10	28.53
PK	909.79M	33.63	46.00	-12.37	1.76	3	Horizontal	0	1.25	-	31.87	26.46	4.03	28.73
PK	921.43M	33.32	46.00	-12.68	1.84	3	Horizontal	331	1.00	-	31.48	26.45	4.07	28.68
PK	947.62M	33.54	46.00	-12.46	2.28	3	Horizontal	174	1.25	-	31.26	26.69	4.17	28.58
PK	955.38M	33.73	46.00	-12.27	2.44	3	Horizontal	324	1.00	-	31.29	26.81	4.19	28.56

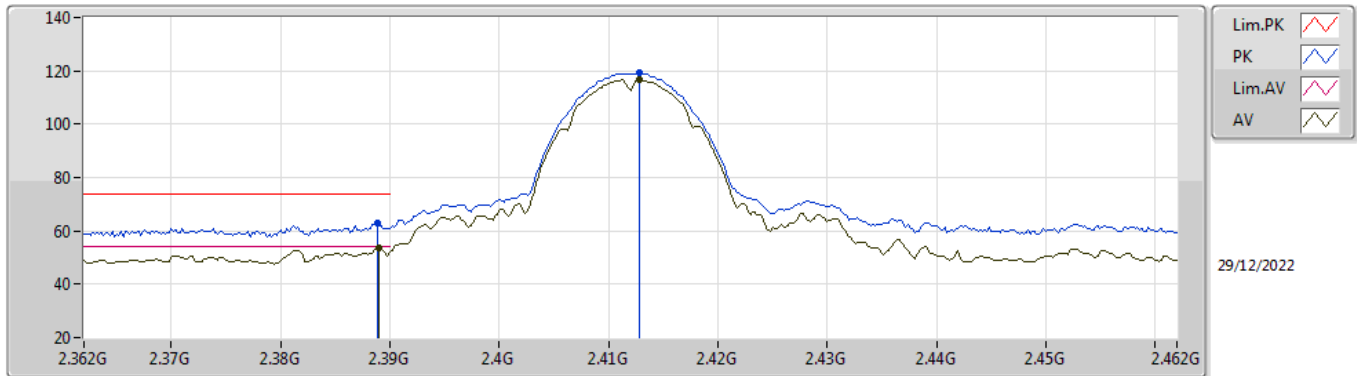


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	7.31024G	53.91	54.00	-0.09	3	Vertical	105	2.04	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

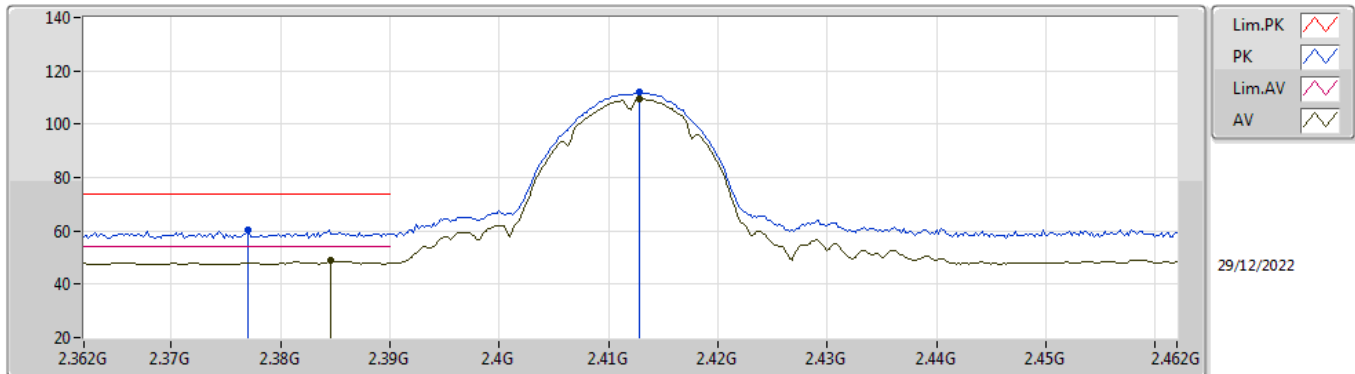


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3888G	62.80	74.00	-11.20	30.08	3	Vertical	146	2.65	-	27.64	5.08	-
AV	2.389G	53.40	54.00	-0.60	20.67	3	Vertical	146	2.65	-	27.64	5.09	-
PK	2.4128G	119.19	Inf	-Inf	86.48	3	Vertical	146	2.65	-	27.60	5.11	-
AV	2.4128G	116.80	Inf	-Inf	84.09	3	Vertical	146	2.65	-	27.60	5.11	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

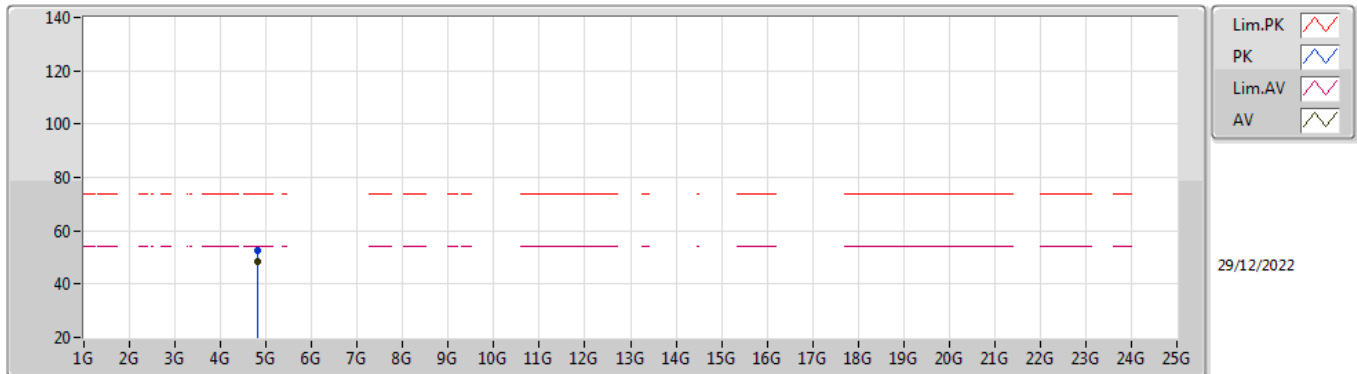


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.377G	60.43	74.00	-13.57	27.68	3	Horizontal	228	1.96	-	27.69	5.06	-
AV	2.3846G	48.83	54.00	-5.17	16.09	3	Horizontal	228	1.96	-	27.66	5.08	-
PK	2.4128G	111.97	Inf	-Inf	79.26	3	Horizontal	228	1.96	-	27.60	5.11	-
AV	2.4128G	109.49	Inf	-Inf	76.78	3	Horizontal	228	1.96	-	27.60	5.11	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

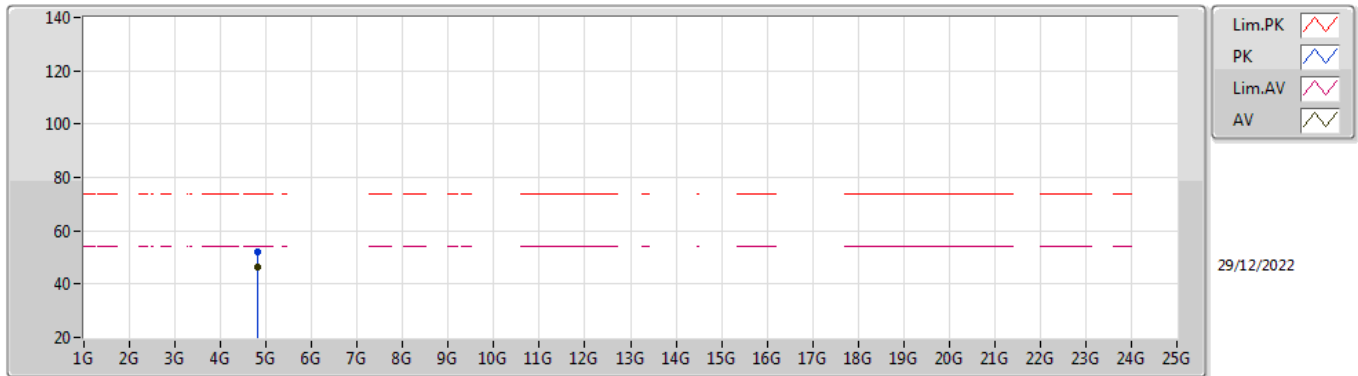


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.824G	52.52	74.00	-21.48	46.93	3	Vertical	56	1.80	-	31.35	6.76	32.52
AV	4.82393G	48.27	54.00	-5.73	42.68	3	Vertical	56	1.80	-	31.35	6.76	32.52

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

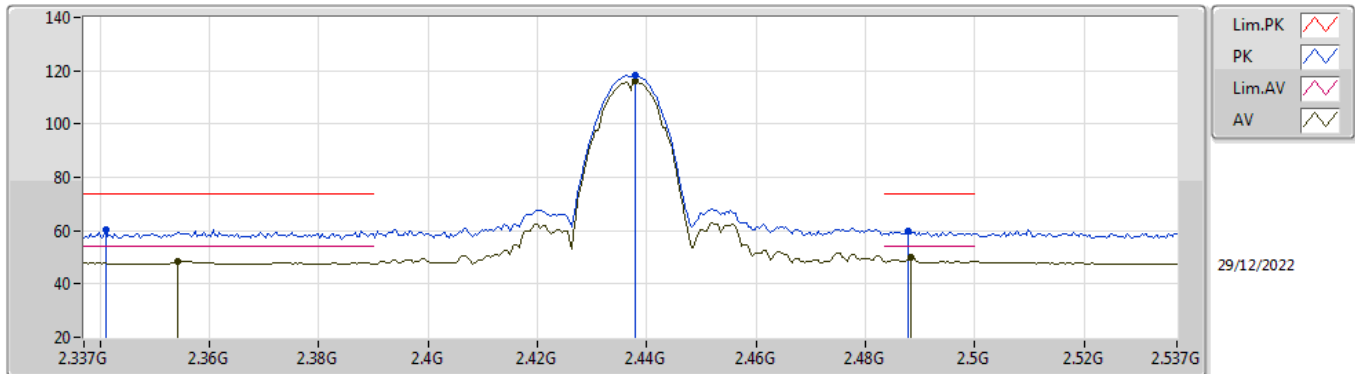


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82399G	52.07	74.00	-21.93	46.48	3	Horizontal	147	1.22	-	31.35	6.76	32.52
AV	4.82395G	46.60	54.00	-7.40	41.01	3	Horizontal	147	1.22	-	31.35	6.76	32.52

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

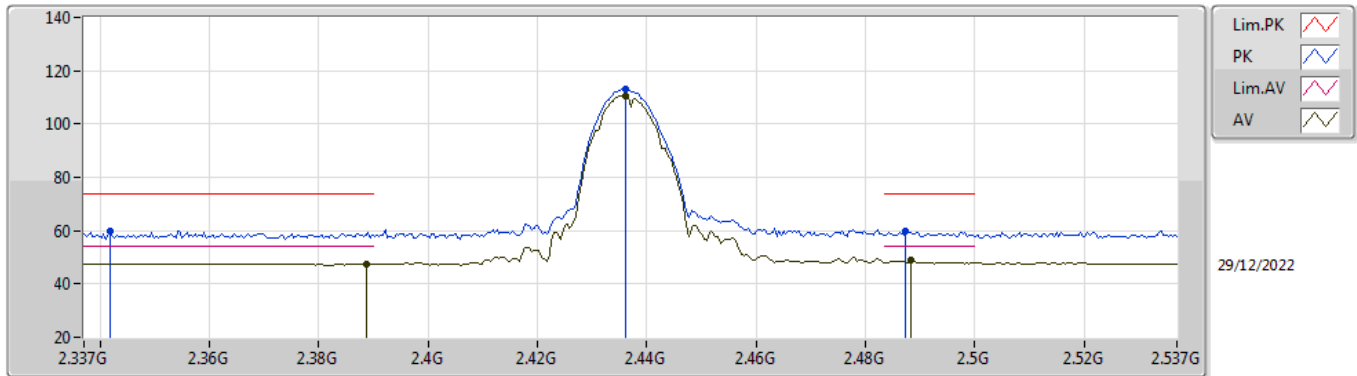


EUT Y_2TX
Setting 19.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.341G	60.19	74.00	-13.81	27.36	3	Vertical	100	3.00	-	27.85	4.98	-
AV	2.3542G	48.57	54.00	-5.43	15.78	3	Vertical	100	3.00	-	27.78	5.01	-
PK	2.4378G	118.45	Inf	-Inf	85.74	3	Vertical	100	3.00	-	27.60	5.11	-
AV	2.4378G	116.02	Inf	-Inf	83.31	3	Vertical	100	3.00	-	27.60	5.11	-
PK	2.4878G	60.06	74.00	-13.94	27.35	3	Vertical	100	3.00	-	27.60	5.11	-
AV	2.4882G	49.89	54.00	-4.11	17.18	3	Vertical	100	3.00	-	27.60	5.11	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

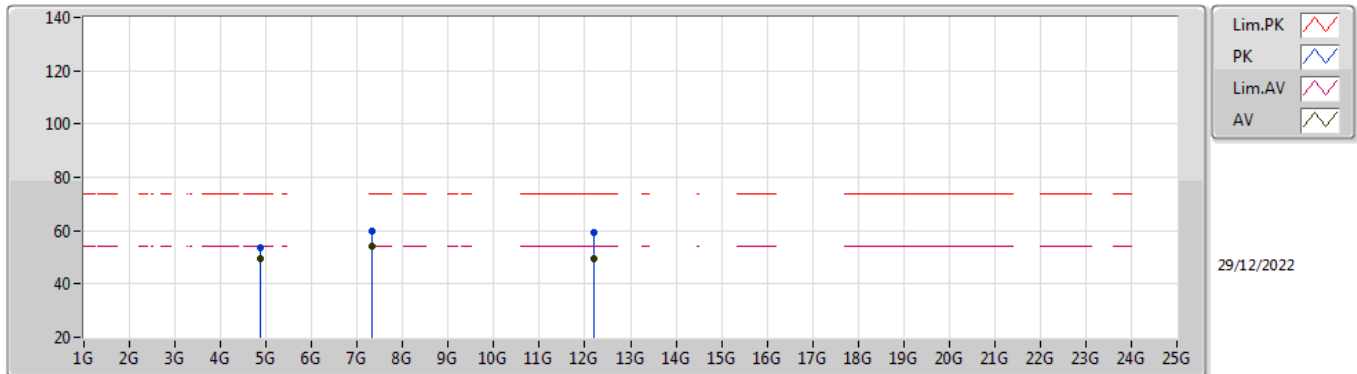


EUT Y_2TX
Setting 19.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3418G	59.68	74.00	-14.32	26.85	3	Horizontal	223	2.35	-	27.85	4.98	-
AV	2.3886G	47.64	54.00	-6.36	14.91	3	Horizontal	223	2.35	-	27.65	5.08	-
PK	2.4362G	113.09	Inf	-Inf	80.38	3	Horizontal	223	2.35	-	27.60	5.11	-
AV	2.4362G	110.61	Inf	-Inf	77.90	3	Horizontal	223	2.35	-	27.60	5.11	-
PK	2.4874G	59.73	74.00	-14.27	27.02	3	Horizontal	223	2.35	-	27.60	5.11	-
AV	2.4882G	49.02	54.00	-4.98	16.31	3	Horizontal	223	2.35	-	27.60	5.11	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

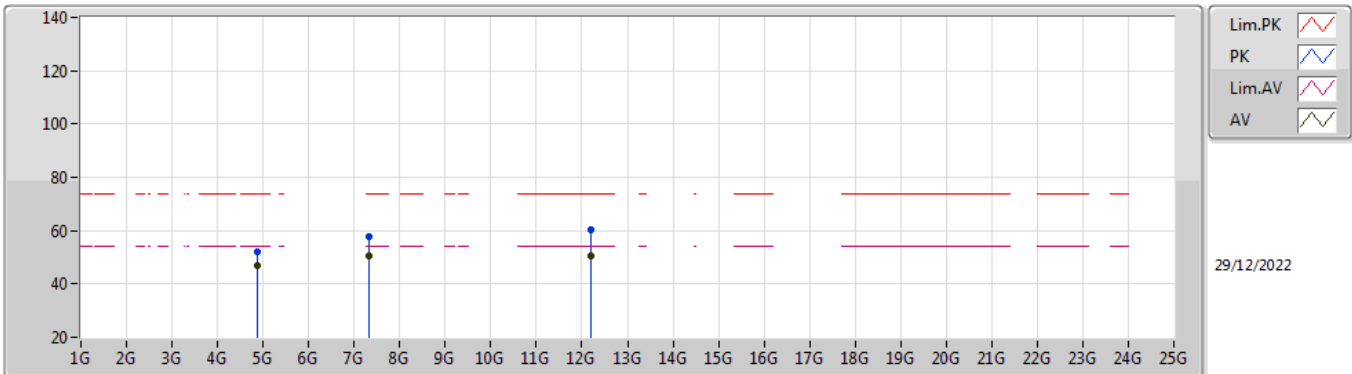


EUT Y_2TX
Setting 19.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87401G	53.55	74.00	-20.45	47.87	3	Vertical	61	1.69	-	31.40	6.78	32.50
AV	4.87395G	49.40	54.00	-4.60	43.72	3	Vertical	61	1.69	-	31.40	6.78	32.50
PK	7.31124G	59.97	74.00	-14.03	48.63	3	Vertical	105	2.04	-	36.70	8.08	33.44
AV	7.31024G	53.91	54.00	-0.09	42.57	3	Vertical	105	2.04	-	36.70	8.08	33.44
PK	12.18408G	59.52	74.00	-14.48	44.55	3	Vertical	100	2.98	-	39.12	10.54	34.69
AV	12.18584G	49.52	54.00	-4.48	34.56	3	Vertical	100	2.98	-	39.11	10.54	34.69

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

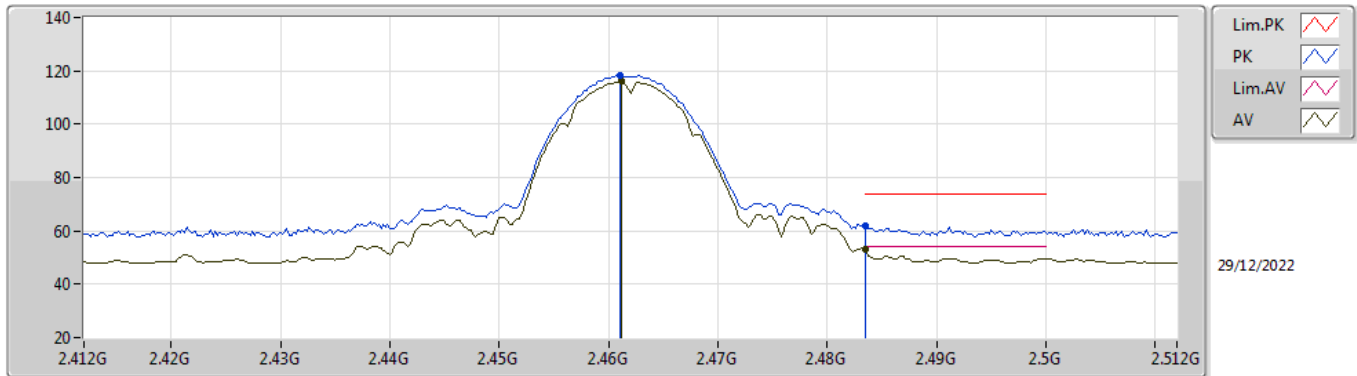


EUT Y_2TX
Setting 19.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.874G	52.06	74.00	-21.94	46.38	3	Horizontal	143	1.06	-	31.40	6.78	32.50
AV	4.87396G	46.80	54.00	-7.20	41.12	3	Horizontal	143	1.06	-	31.40	6.78	32.50
PK	7.31232G	57.73	74.00	-16.27	46.39	3	Horizontal	40	1.80	-	36.70	8.08	33.44
AV	7.31176G	50.34	54.00	-3.66	39.00	3	Horizontal	40	1.80	-	36.70	8.08	33.44
PK	12.18632G	60.23	74.00	-13.77	45.27	3	Horizontal	45	1.81	-	39.11	10.54	34.69
AV	12.18596G	50.70	54.00	-3.30	35.74	3	Horizontal	45	1.81	-	39.11	10.54	34.69

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

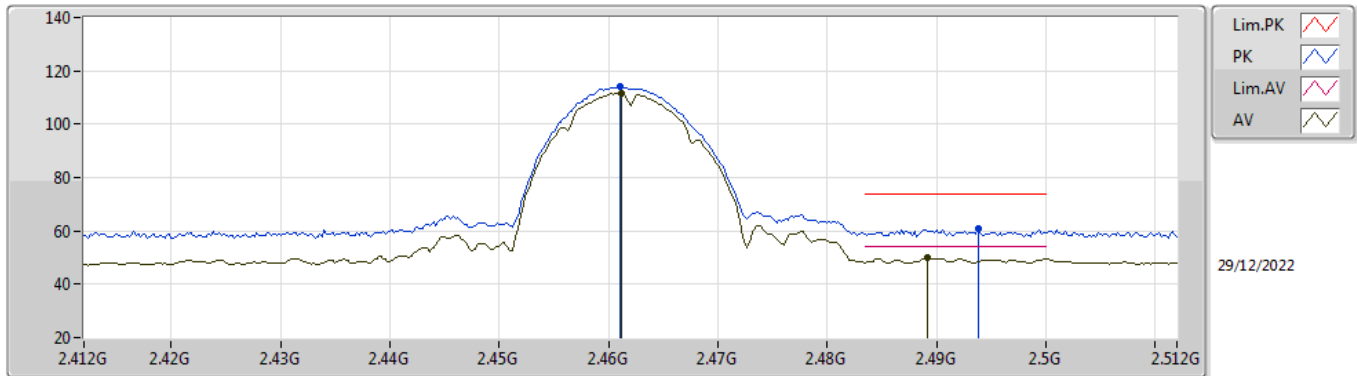


EUT Y_2TX
Setting 20
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.461G	118.40	Inf	-Inf	85.69	3	Vertical	106	2.98	-	27.60	5.11	-
AV	2.4612G	115.96	Inf	-Inf	83.25	3	Vertical	106	2.98	-	27.60	5.11	-
PK	2.4835G	61.64	74.00	-12.36	28.93	3	Vertical	106	2.98	-	27.60	5.11	-
AV	2.4835G	53.28	54.00	-0.72	20.57	3	Vertical	106	2.98	-	27.60	5.11	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

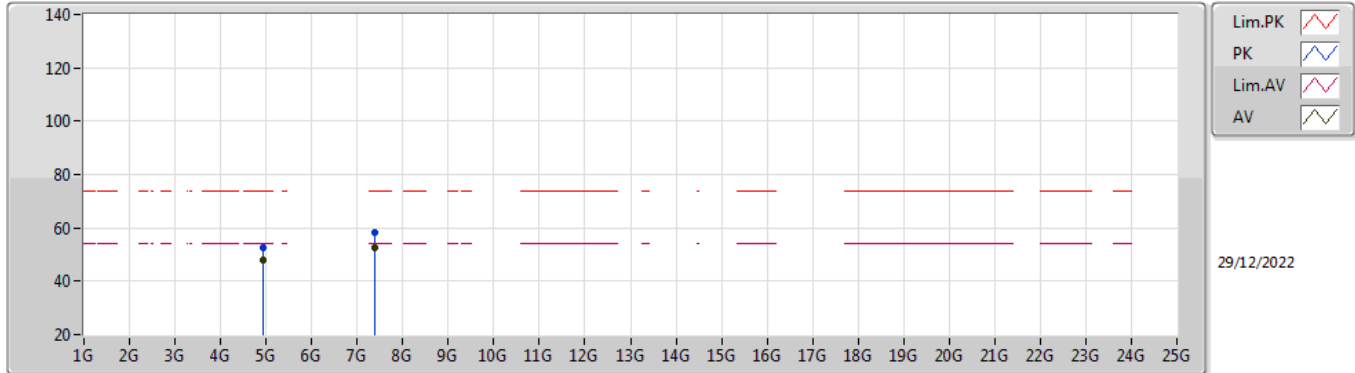


EUT Y_2TX
Setting 20
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.461G	114.08	Inf	-Inf	81.37	3	Horizontal	228	2.06	-	27.60	5.11	-
AV	2.4612G	111.50	Inf	-Inf	78.79	3	Horizontal	228	2.06	-	27.60	5.11	-
PK	2.4938G	60.77	74.00	-13.23	28.06	3	Horizontal	228	2.06	-	27.60	5.11	-
AV	2.4892G	50.09	54.00	-3.91	17.38	3	Horizontal	228	2.06	-	27.60	5.11	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

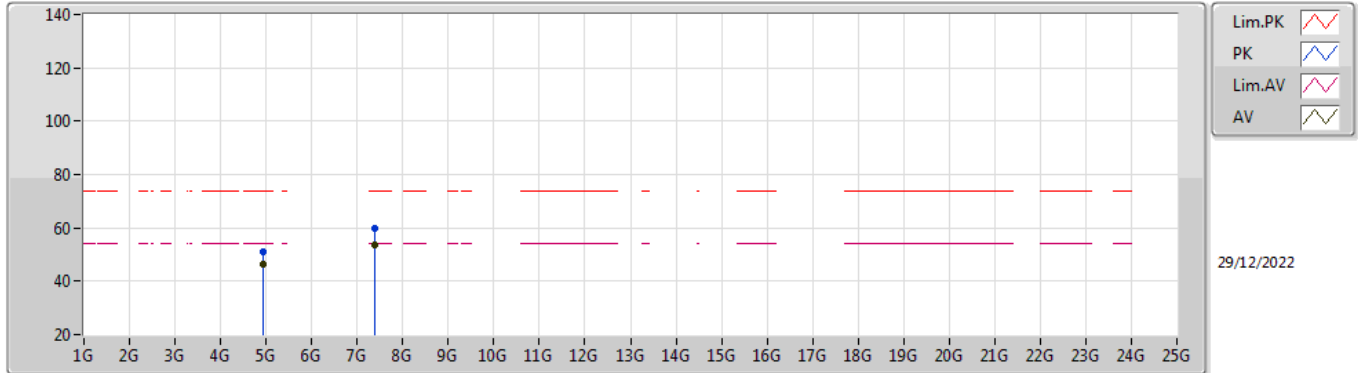


EUT Y_2TX
Setting 20
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92394G	52.51	74.00	-21.49	46.74	3	Vertical	62	1.55	-	31.45	6.79	32.47
AV	4.92395G	48.07	54.00	-5.93	42.30	3	Vertical	62	1.55	-	31.45	6.79	32.47
PK	7.38488G	58.50	74.00	-15.50	47.33	3	Vertical	132	1.59	-	36.70	8.00	33.53
AV	7.38516G	52.42	54.00	-1.58	41.25	3	Vertical	132	1.59	-	36.70	8.00	33.53

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

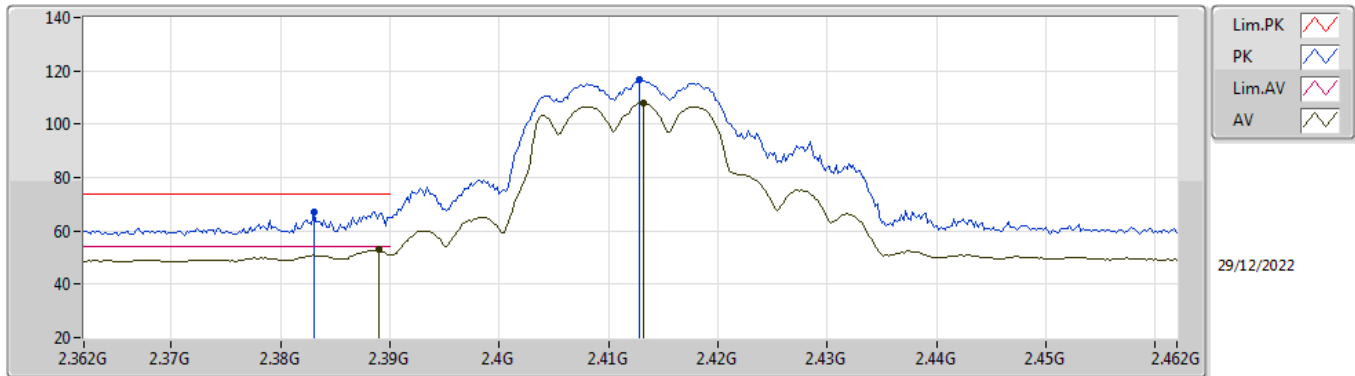


EUT Y_2TX
Setting 20
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92404G	51.28	74.00	-22.72	45.51	3	Horizontal	145	1.00	-	31.45	6.79	32.47
AV	4.92397G	46.21	54.00	-7.79	40.44	3	Horizontal	145	1.00	-	31.45	6.79	32.47
PK	7.38508G	59.81	74.00	-14.19	48.64	3	Horizontal	53	2.06	-	36.70	8.00	33.53
AV	7.3852G	53.71	54.00	-0.29	42.54	3	Horizontal	53	2.06	-	36.70	8.00	33.53

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

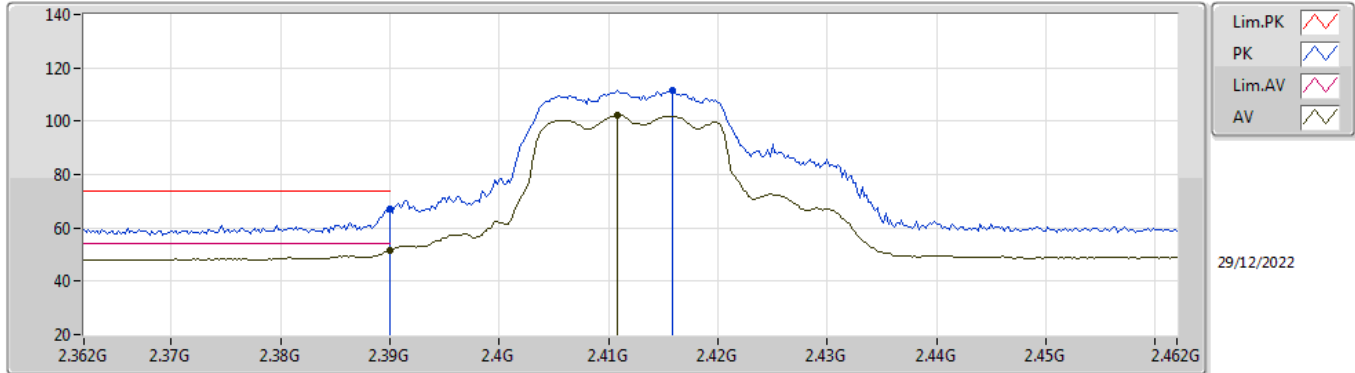


EUT Y_2TX
Setting 17.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.383G	66.98	74.00	-7.02	34.24	3	Vertical	4	1.80	-	27.67	5.07	-
AV	2.389G	52.85	54.00	-1.15	20.12	3	Vertical	4	1.80	-	27.64	5.09	-
PK	2.4128G	116.57	Inf	-Inf	83.86	3	Vertical	4	1.80	-	27.60	5.11	-
AV	2.4132G	107.98	Inf	-Inf	75.27	3	Vertical	4	1.80	-	27.60	5.11	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

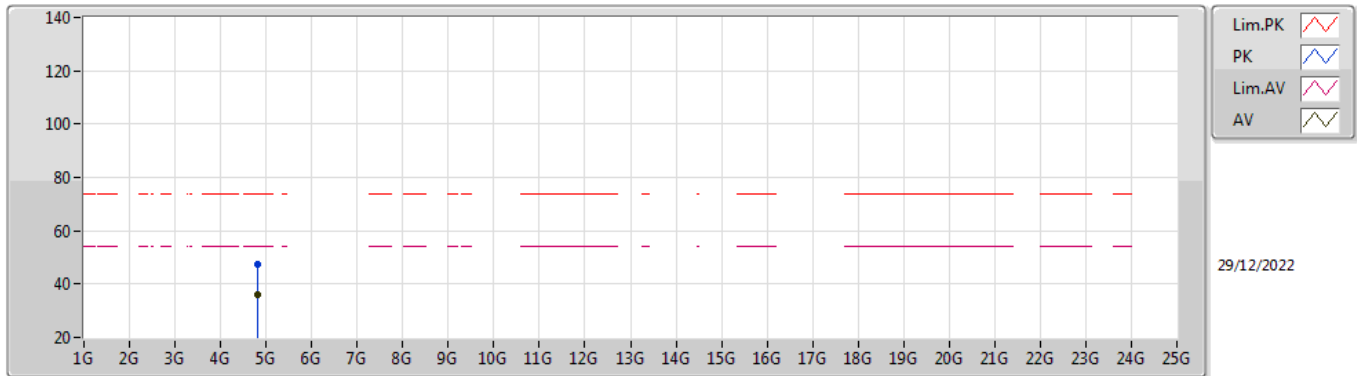


EUT Y_2TX
Setting 17.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	66.97	74.00	-7.03	34.24	3	Horizontal	228	2.11	-	27.64	5.09	-
AV	2.39G	51.66	54.00	-2.34	18.93	3	Horizontal	228	2.11	-	27.64	5.09	-
PK	2.4158G	111.58	Inf	-Inf	78.87	3	Horizontal	228	2.11	-	27.60	5.11	-
AV	2.4108G	102.13	Inf	-Inf	69.42	3	Horizontal	228	2.11	-	27.60	5.11	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

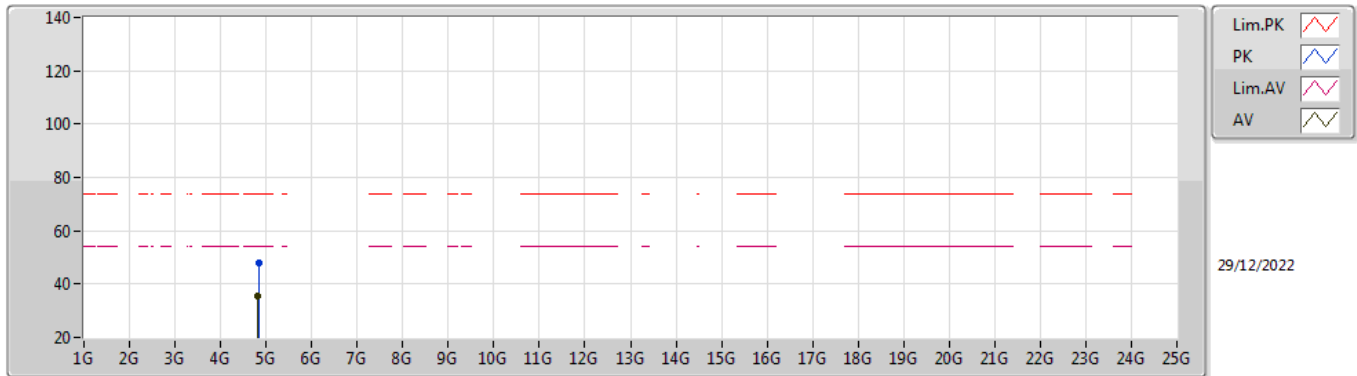


EUT Y_2TX
Setting 17.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82516G	47.66	74.00	-26.34	42.07	3	Vertical	64	1.80	-	31.35	6.76	32.52
AV	4.82448G	35.98	54.00	-18.02	30.39	3	Vertical	64	1.80	-	31.35	6.76	32.52

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

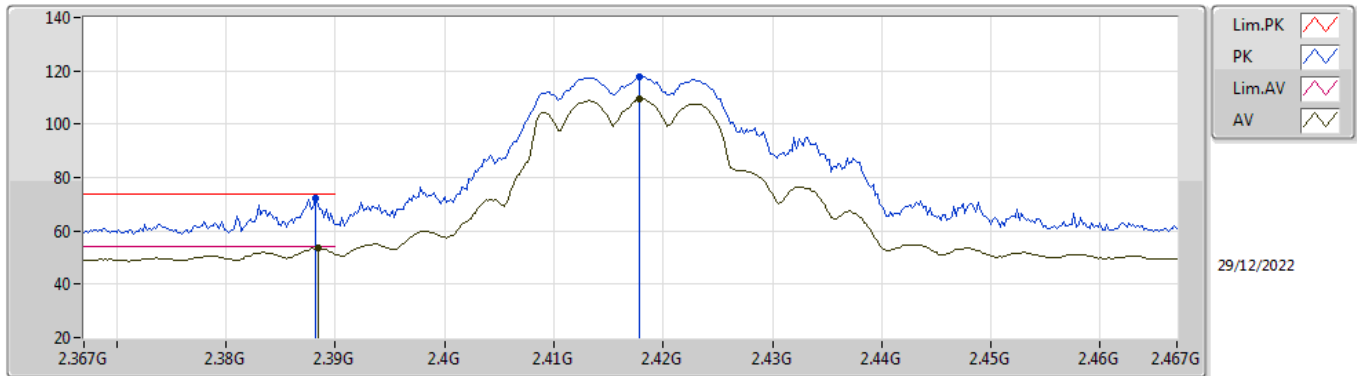


EUT Y_2TX
Setting 17.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82868G	47.71	74.00	-26.29	42.11	3	Horizontal	145	1.33	-	31.36	6.76	32.52
AV	4.82488G	35.36	54.00	-18.64	29.77	3	Horizontal	145	1.33	-	31.35	6.76	32.52

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

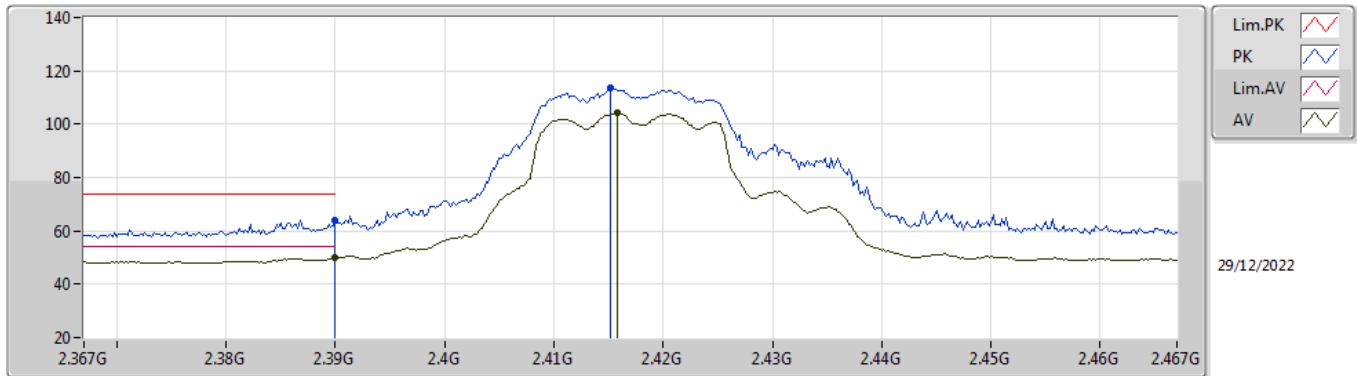


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	72.10	74.00	-1.90	39.37	3	Vertical	7	1.76	-	27.65	5.08	-
AV	2.3884G	53.66	54.00	-0.34	20.93	3	Vertical	7	1.76	-	27.65	5.08	-
PK	2.4178G	117.86	Inf	-Inf	85.15	3	Vertical	7	1.76	-	27.60	5.11	-
AV	2.4178G	109.33	Inf	-Inf	76.62	3	Vertical	7	1.76	-	27.60	5.11	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

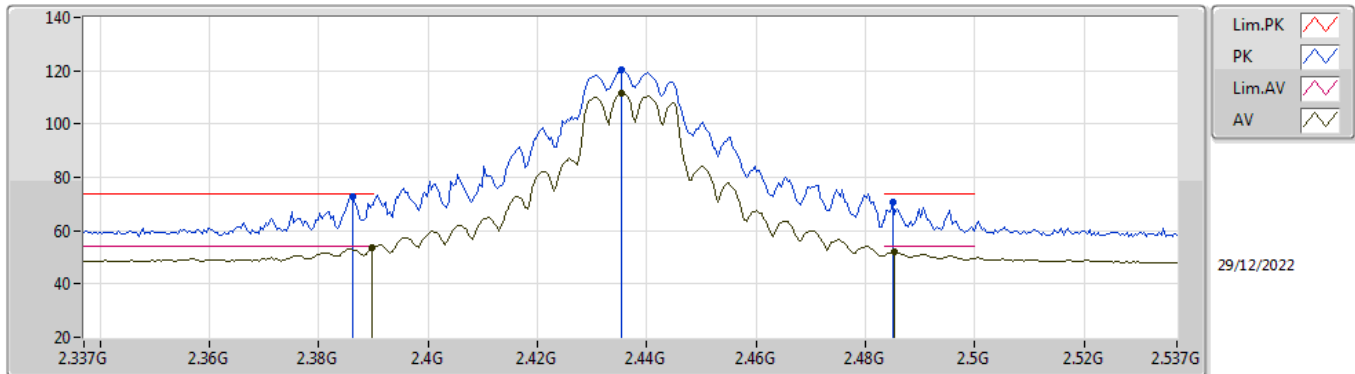


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	63.86	74.00	-10.14	31.13	3	Horizontal	227	2.32	-	27.64	5.09	-
AV	2.39G	49.88	54.00	-4.12	17.15	3	Horizontal	227	2.32	-	27.64	5.09	-
PK	2.4152G	113.38	Inf	-Inf	80.67	3	Horizontal	227	2.32	-	27.60	5.11	-
AV	2.4158G	104.18	Inf	-Inf	71.47	3	Horizontal	227	2.32	-	27.60	5.11	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

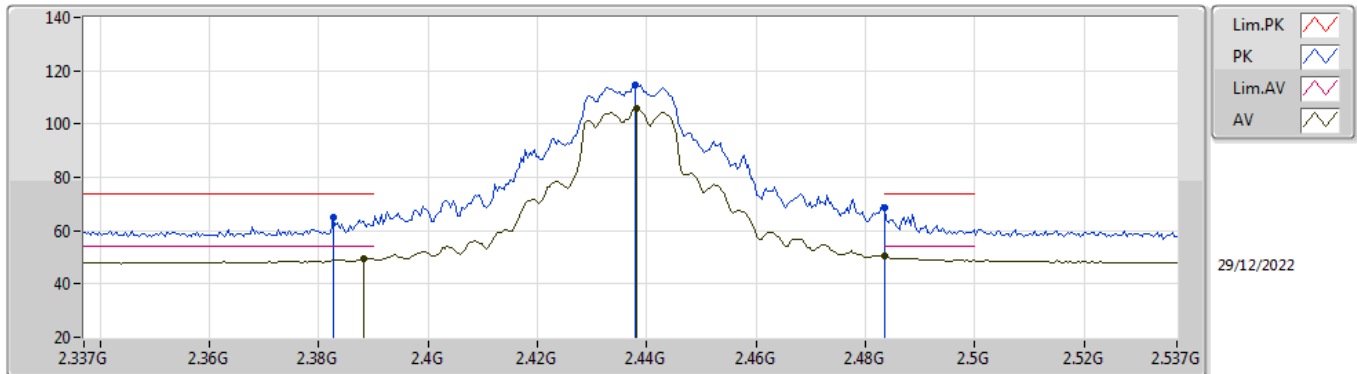


EUT Y_2TX
Setting 21.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3862G	72.52	74.00	-1.48	39.78	3	Vertical	0	1.10	-	27.66	5.08	-
AV	2.3898G	53.53	54.00	-0.47	20.80	3	Vertical	0	1.10	-	27.64	5.09	-
PK	2.4354G	120.25	Inf	-Inf	87.54	3	Vertical	0	1.10	-	27.60	5.11	-
AV	2.4354G	111.55	Inf	-Inf	78.84	3	Vertical	0	1.10	-	27.60	5.11	-
PK	2.485G	70.93	74.00	-3.07	38.22	3	Vertical	0	1.10	-	27.60	5.11	-
AV	2.4854G	52.24	54.00	-1.76	19.53	3	Vertical	0	1.10	-	27.60	5.11	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

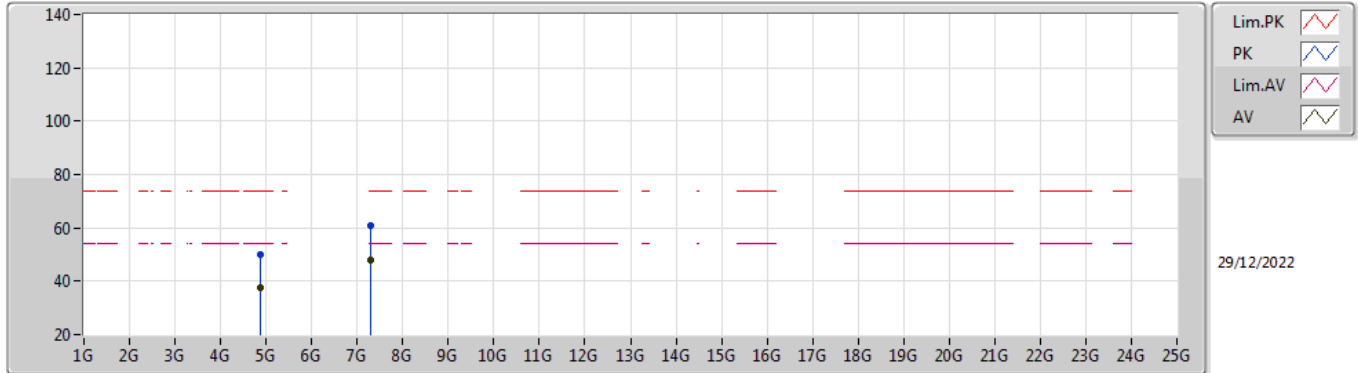


EUT Y_2TX
Setting 21.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3826G	64.77	74.00	-9.23	32.03	3	Horizontal	242	1.65	-	27.67	5.07	-
AV	2.3882G	49.47	54.00	-4.53	16.74	3	Horizontal	242	1.65	-	27.65	5.08	-
PK	2.4378G	114.59	Inf	-Inf	81.88	3	Horizontal	242	1.65	-	27.60	5.11	-
AV	2.4382G	105.87	Inf	-Inf	73.16	3	Horizontal	242	1.65	-	27.60	5.11	-
PK	2.4835G	68.76	74.00	-5.24	36.05	3	Horizontal	242	1.65	-	27.60	5.11	-
AV	2.4835G	50.30	54.00	-3.70	17.59	3	Horizontal	242	1.65	-	27.60	5.11	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

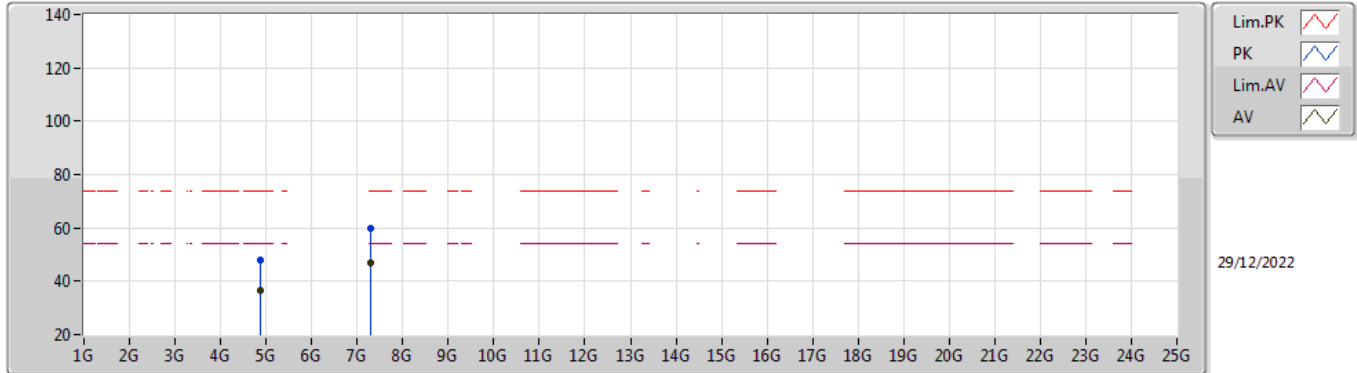


EUT Y_2TX
Setting 21.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87408G	49.79	74.00	-24.21	44.11	3	Vertical	102	1.80	-	31.40	6.78	32.50
AV	4.87444G	37.61	54.00	-16.39	31.93	3	Vertical	102	1.80	-	31.40	6.78	32.50
PK	7.30996G	60.97	74.00	-13.03	49.63	3	Vertical	106	2.04	-	36.70	8.08	33.44
AV	7.30952G	48.06	54.00	-5.94	36.72	3	Vertical	106	2.04	-	36.70	8.08	33.44

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

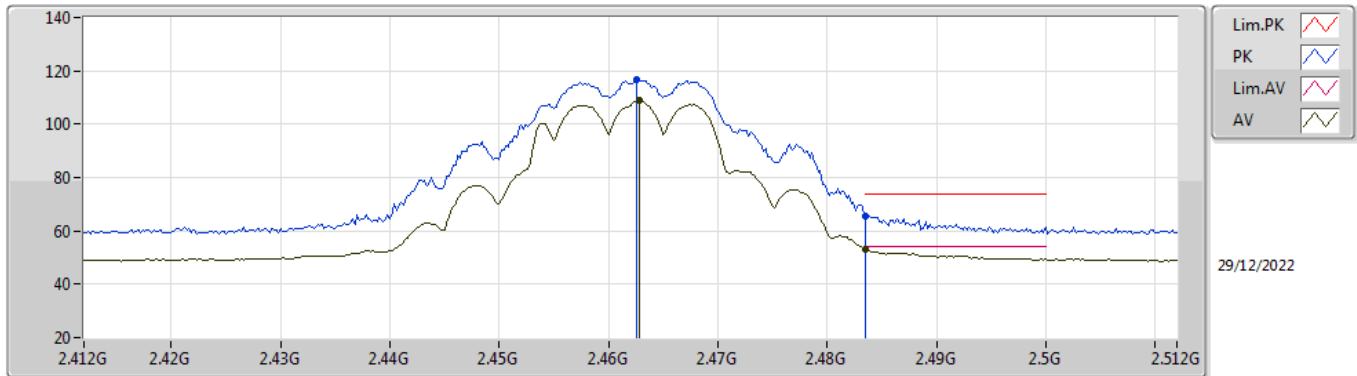


EUT Y_2TX
Setting 21.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8794G	48.15	74.00	-25.85	42.47	3	Horizontal	147	1.33	-	31.40	6.78	32.50
AV	4.8744G	36.67	54.00	-17.33	30.99	3	Horizontal	147	1.33	-	31.40	6.78	32.50
PK	7.30804G	59.84	74.00	-14.16	48.49	3	Horizontal	108	1.00	-	36.70	8.08	33.43
AV	7.30772G	47.15	54.00	-6.85	35.80	3	Horizontal	108	1.00	-	36.70	8.08	33.43

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

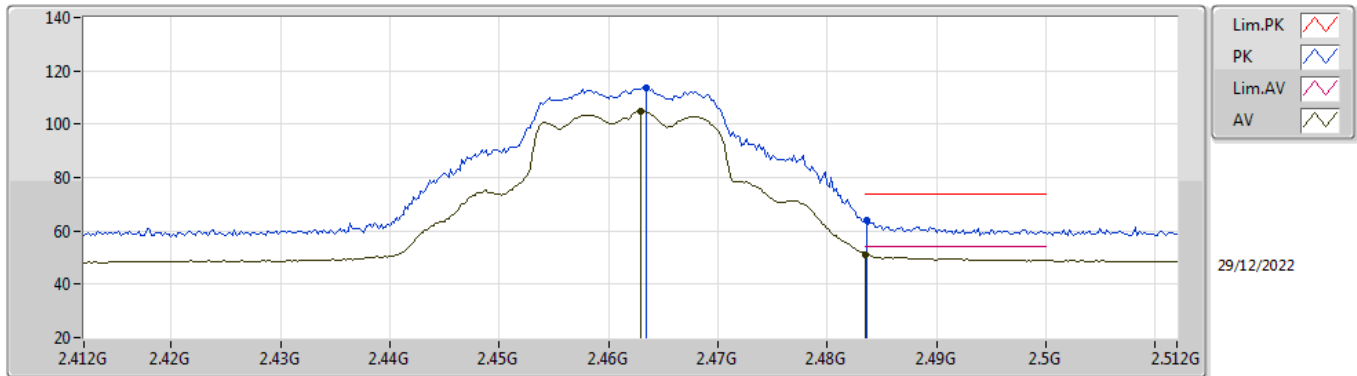


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.462G	116.80	Inf	-Inf	84.09	3	Vertical	102	2.00	-	27.60	5.11	-
AV	2.4628G	108.71	Inf	-Inf	76.00	3	Vertical	102	2.00	-	27.60	5.11	-
PK	2.4835G	65.49	74.00	-8.51	32.78	3	Vertical	102	2.00	-	27.60	5.11	-
AV	2.4835G	53.14	54.00	-0.86	20.43	3	Vertical	102	2.00	-	27.60	5.11	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

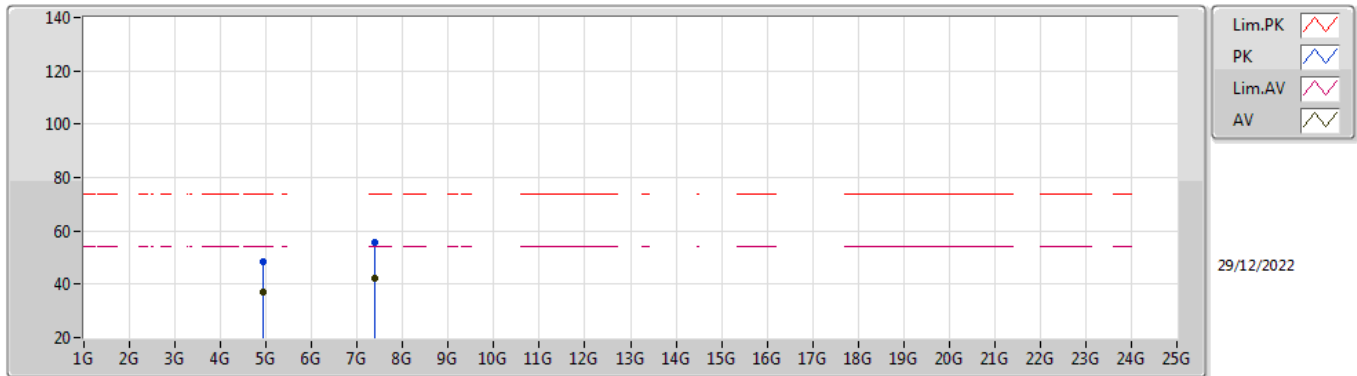


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4634G	113.55	Inf	-Inf	80.84	3	Horizontal	231	2.08	-	27.60	5.11	-
AV	2.463G	104.86	Inf	-Inf	72.15	3	Horizontal	231	2.08	-	27.60	5.11	-
PK	2.4836G	63.92	74.00	-10.08	31.21	3	Horizontal	231	2.08	-	27.60	5.11	-
AV	2.4835G	51.24	54.00	-2.76	18.53	3	Horizontal	231	2.08	-	27.60	5.11	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

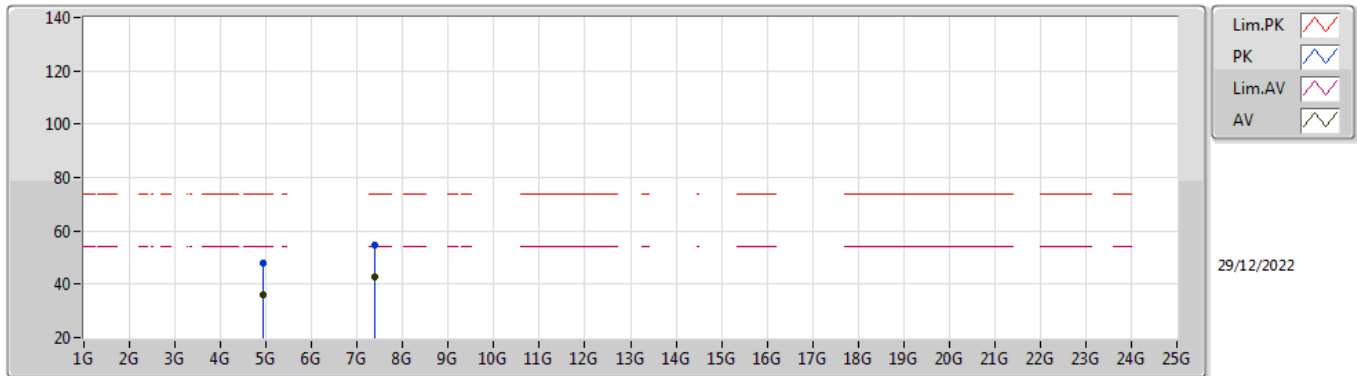


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91968G	48.21	74.00	-25.79	42.46	3	Vertical	58	1.80	-	31.44	6.79	32.48
AV	4.9244G	36.91	54.00	-17.09	31.14	3	Vertical	58	1.80	-	31.45	6.79	32.47
PK	7.38484G	55.66	74.00	-18.34	44.49	3	Vertical	135	1.82	-	36.70	8.00	33.53
AV	7.38804G	42.28	54.00	-11.72	31.13	3	Vertical	135	1.82	-	36.70	7.99	33.54

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

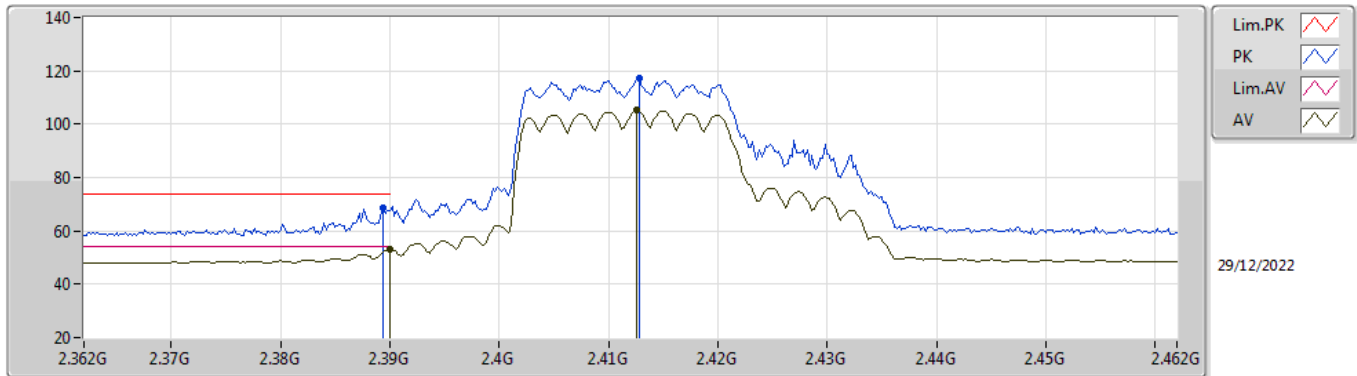


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92564G	47.81	74.00	-26.19	42.04	3	Horizontal	144	1.18	-	31.45	6.79	32.47
AV	4.92484G	36.10	54.00	-17.90	30.33	3	Horizontal	144	1.18	-	31.45	6.79	32.47
PK	7.3882G	54.84	74.00	-19.16	43.69	3	Horizontal	45	2.10	-	36.70	7.99	33.54
AV	7.3888G	42.51	54.00	-11.49	31.36	3	Horizontal	45	2.10	-	36.70	7.99	33.54

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

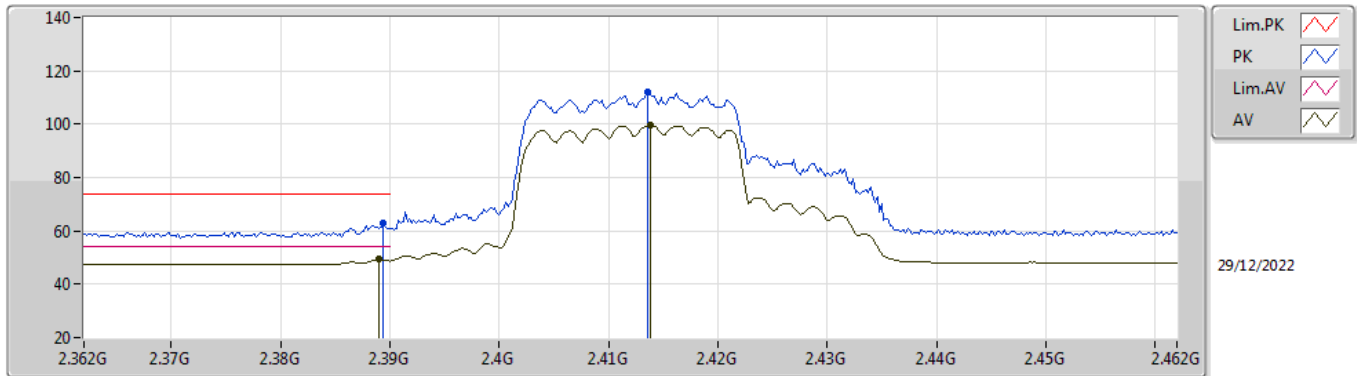


EUT Y_2TX
Setting 16.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	68.77	74.00	-5.23	36.04	3	Vertical	4	1.80	-	27.64	5.09	-
AV	2.39G	52.99	54.00	-1.01	20.26	3	Vertical	4	1.80	-	27.64	5.09	-
PK	2.4128G	117.03	Inf	-Inf	84.32	3	Vertical	4	1.80	-	27.60	5.11	-
AV	2.4126G	105.15	Inf	-Inf	72.44	3	Vertical	4	1.80	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

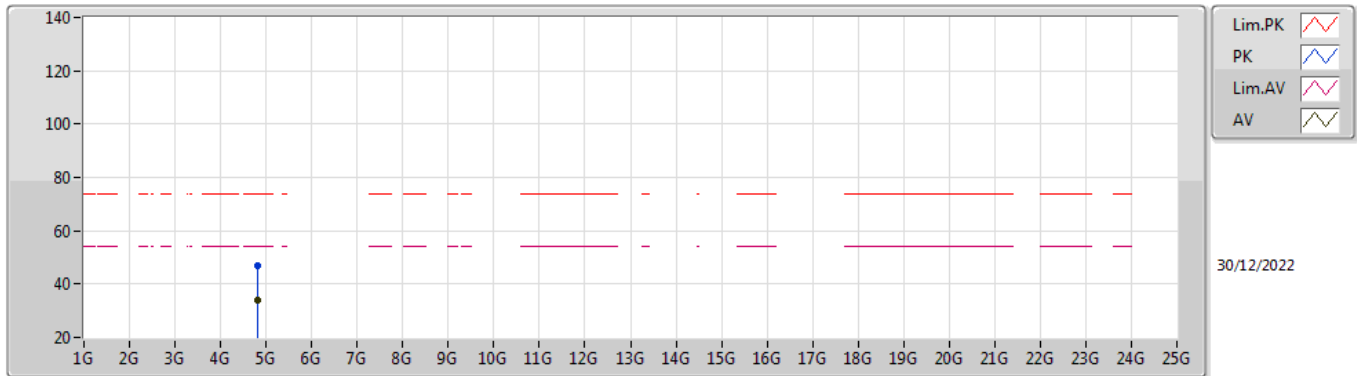


EUT Y_2TX
Setting 16.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	63.12	74.00	-10.88	30.39	3	Horizontal	227	2.31	-	27.64	5.09	-
AV	2.389G	49.26	54.00	-4.74	16.53	3	Horizontal	227	2.31	-	27.64	5.09	-
PK	2.4136G	111.83	Inf	-Inf	79.12	3	Horizontal	227	2.31	-	27.60	5.11	-
AV	2.4138G	99.80	Inf	-Inf	67.09	3	Horizontal	227	2.31	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

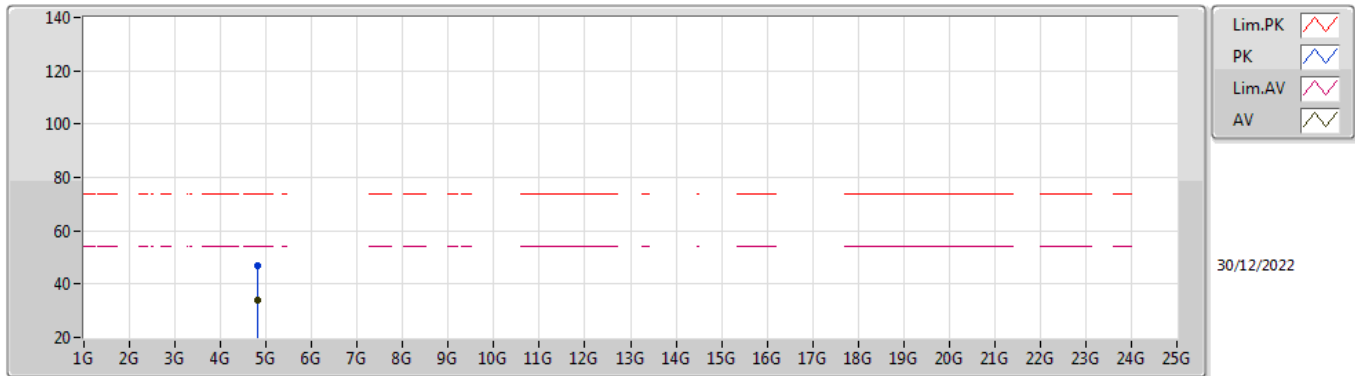


EUT Y_2TX
Setting 16.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82734G	46.81	74.00	-27.19	41.22	3	Vertical	44	2.73	-	31.35	6.76	32.52
AV	4.82124G	33.86	54.00	-20.14	28.28	3	Vertical	44	2.73	-	31.34	6.76	32.52

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

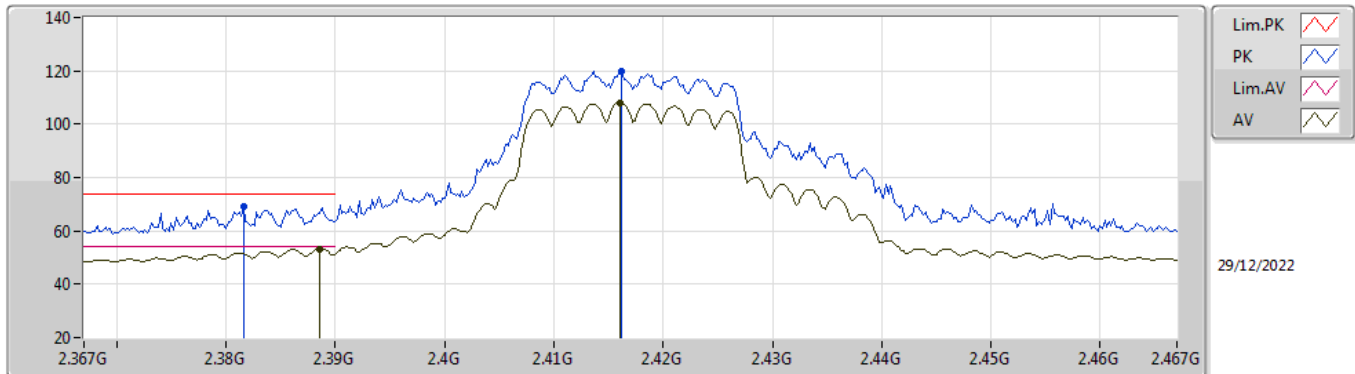


EUT Y_2TX
Setting 16.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82086G	46.73	74.00	-27.27	41.15	3	Horizontal	218	2.44	-	31.34	6.76	32.52
AV	4.8203G	33.86	54.00	-20.14	28.28	3	Horizontal	218	2.44	-	31.34	6.76	32.52

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

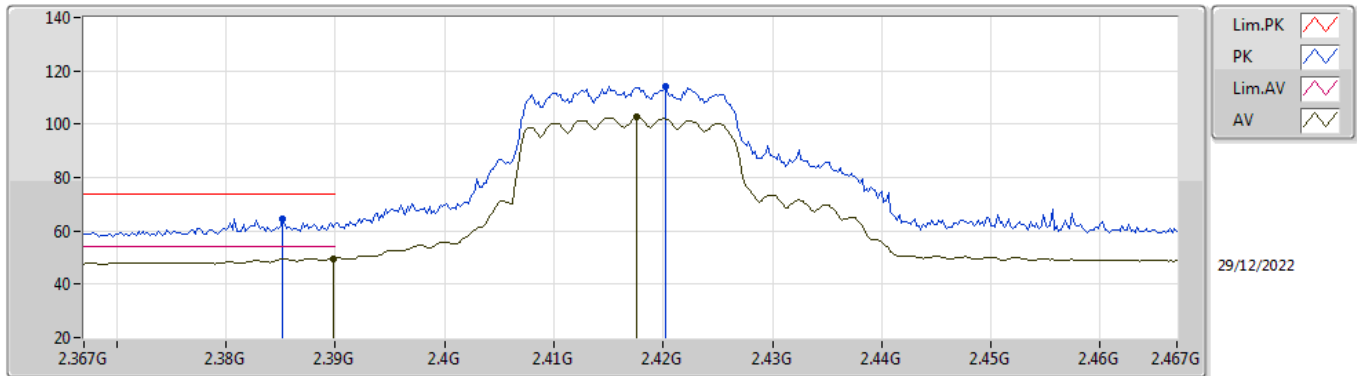


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3816G	68.90	74.00	-5.10	36.16	3	Vertical	338	1.80	-	27.67	5.07	-
AV	2.3886G	53.26	54.00	-0.74	20.53	3	Vertical	338	1.80	-	27.65	5.08	-
PK	2.4162G	119.81	Inf	-Inf	87.10	3	Vertical	338	1.80	-	27.60	5.11	-
AV	2.416G	108.01	Inf	-Inf	75.30	3	Vertical	338	1.80	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

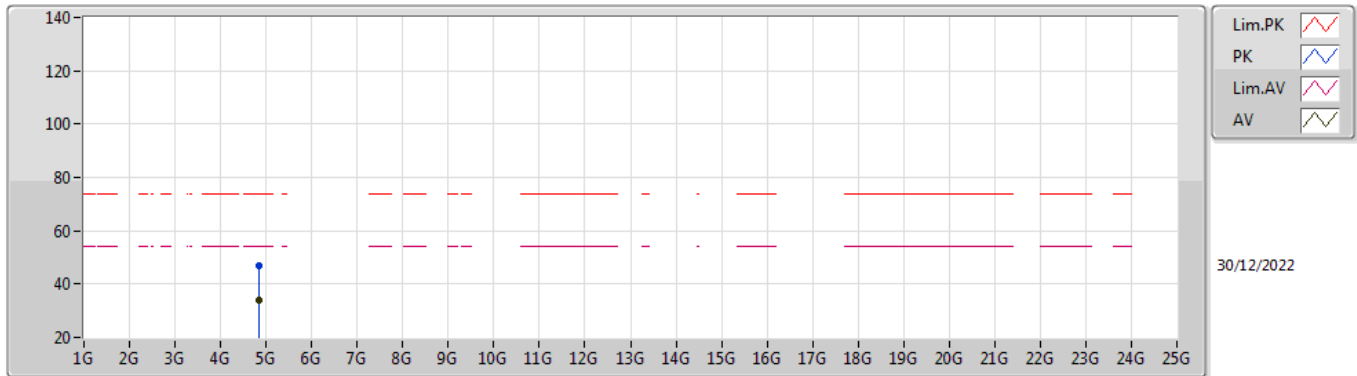


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3852G	64.36	74.00	-9.64	31.62	3	Horizontal	224	2.32	-	27.66	5.08	-
AV	2.3898G	49.68	54.00	-4.32	16.95	3	Horizontal	224	2.32	-	27.64	5.09	-
PK	2.4202G	114.32	Inf	-Inf	81.61	3	Horizontal	224	2.32	-	27.60	5.11	-
AV	2.4176G	102.58	Inf	-Inf	69.87	3	Horizontal	224	2.32	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

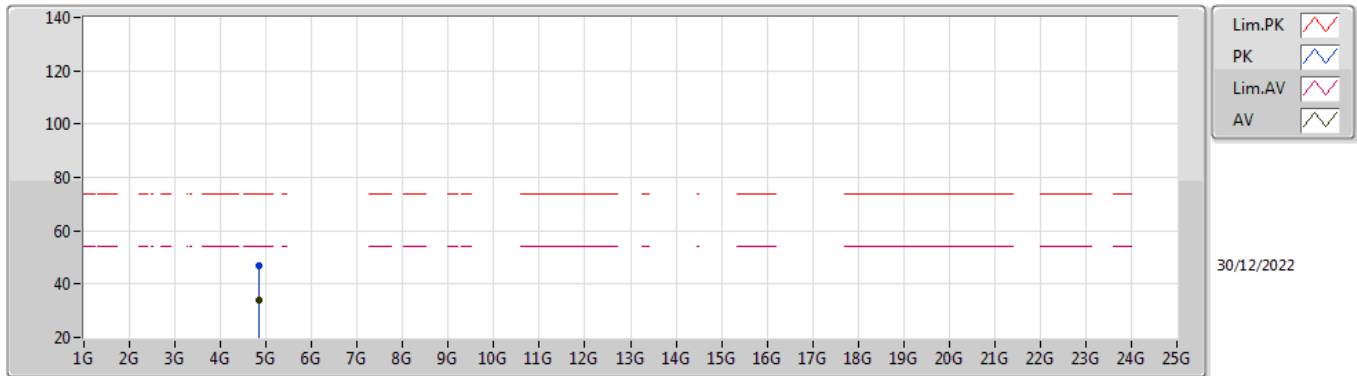


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.838G	46.80	74.00	-27.20	41.17	3	Vertical	311	1.26	-	31.38	6.76	32.51
AV	4.83752G	33.97	54.00	-20.03	28.34	3	Vertical	311	1.26	-	31.38	6.76	32.51

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

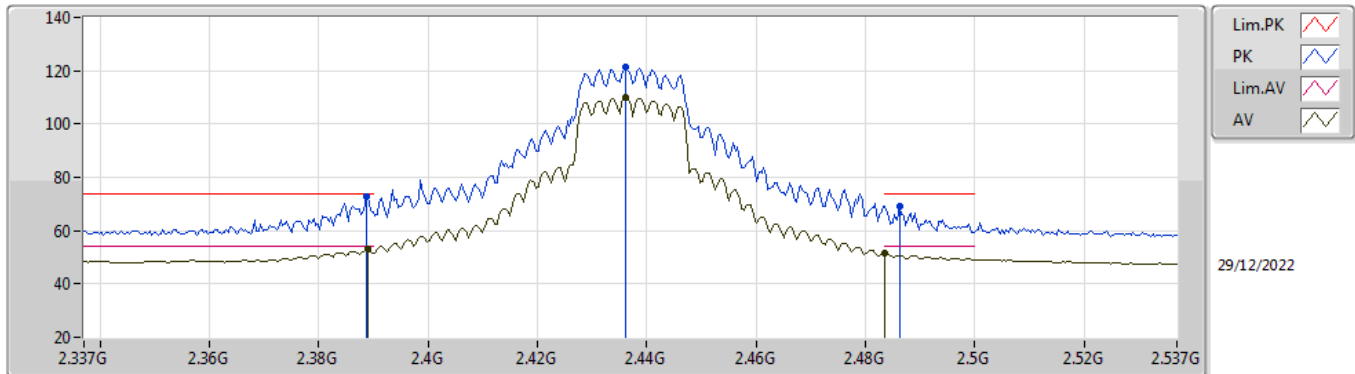


EUT Y_2TX
Setting 19
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83548G	46.83	74.00	-27.17	41.22	3	Horizontal	190	1.89	-	31.37	6.76	32.52
AV	4.838G	33.97	54.00	-20.03	28.34	3	Horizontal	190	1.89	-	31.38	6.76	32.51

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

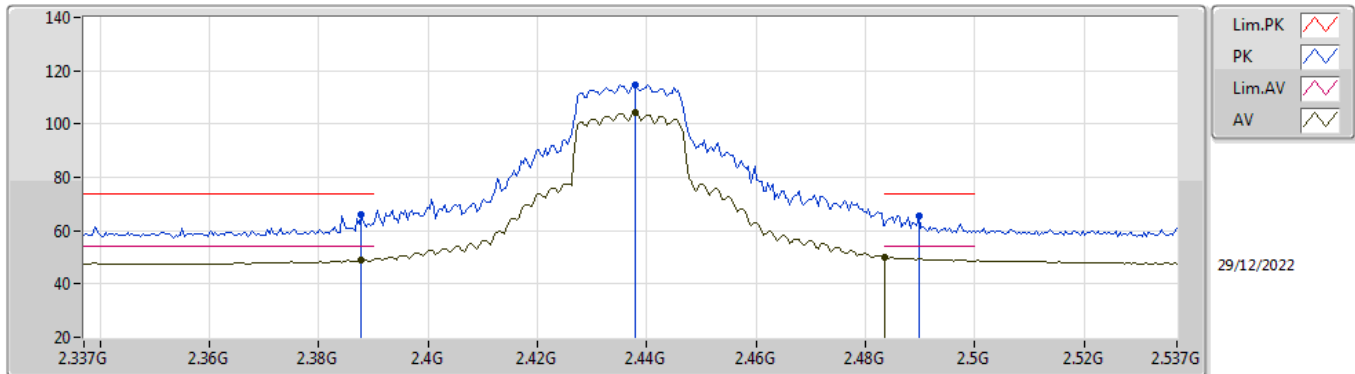


EUT Y_2TX
Setting 21.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	73.01	74.00	-0.99	40.28	3	Vertical	360	1.12	-	27.65	5.08	-
AV	2.389G	52.99	54.00	-1.01	20.26	3	Vertical	360	1.12	-	27.64	5.09	-
PK	2.4362G	121.56	Inf	-Inf	88.85	3	Vertical	360	1.12	-	27.60	5.11	-
AV	2.4362G	110.13	Inf	-Inf	77.42	3	Vertical	360	1.12	-	27.60	5.11	-
PK	2.4862G	69.04	74.00	-4.96	36.33	3	Vertical	360	1.12	-	27.60	5.11	-
AV	2.4835G	51.41	54.00	-2.59	18.70	3	Vertical	360	1.12	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

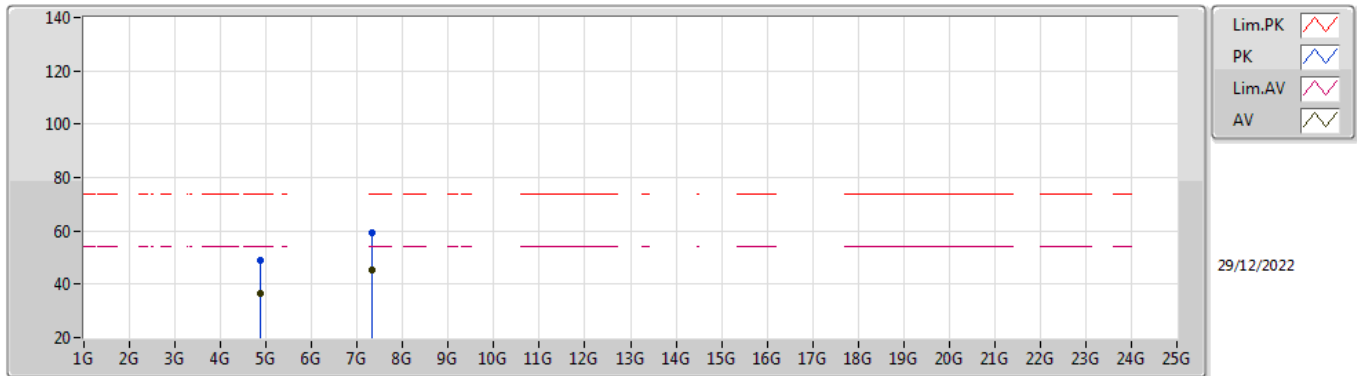


EUT Y_2TX
Setting 21.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	66.06	74.00	-7.94	33.33	3	Horizontal	223	1.80	-	27.65	5.08	-
AV	2.3878G	49.05	54.00	-4.95	16.32	3	Horizontal	223	1.80	-	27.65	5.08	-
PK	2.4378G	114.90	Inf	-Inf	82.19	3	Horizontal	223	1.80	-	27.60	5.11	-
AV	2.4378G	104.21	Inf	-Inf	71.50	3	Horizontal	223	1.80	-	27.60	5.11	-
PK	2.4898G	65.68	74.00	-8.32	32.97	3	Horizontal	223	1.80	-	27.60	5.11	-
AV	2.4835G	49.90	54.00	-4.10	17.19	3	Horizontal	223	1.80	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

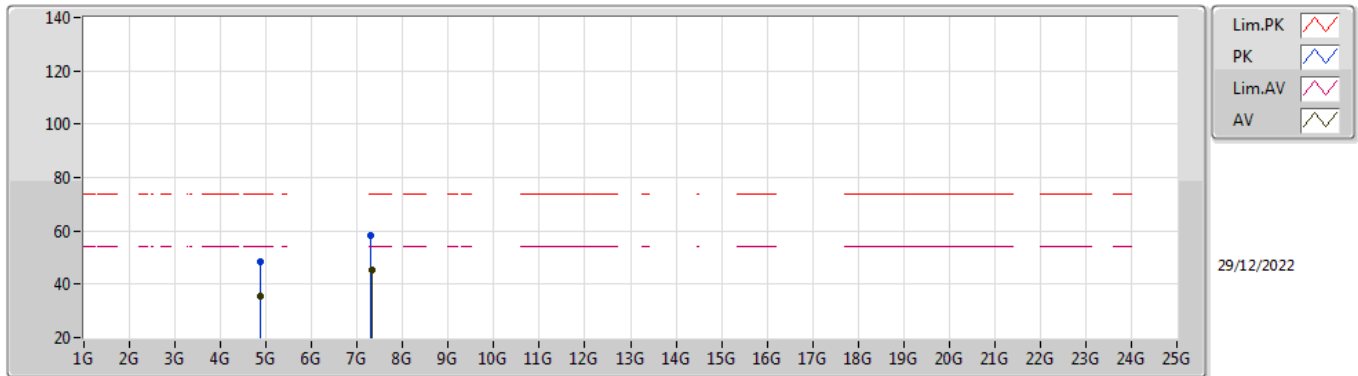


EUT Y_2TX
Setting 21.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87692G	48.96	74.00	-25.04	43.28	3	Vertical	64	1.80	-	31.40	6.78	32.50
AV	4.87416G	36.51	54.00	-17.49	30.83	3	Vertical	64	1.80	-	31.40	6.78	32.50
PK	7.31412G	59.14	74.00	-14.86	47.81	3	Vertical	134	1.00	-	36.70	8.07	33.44
AV	7.31088G	45.28	54.00	-8.72	33.94	3	Vertical	134	1.00	-	36.70	8.08	33.44

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

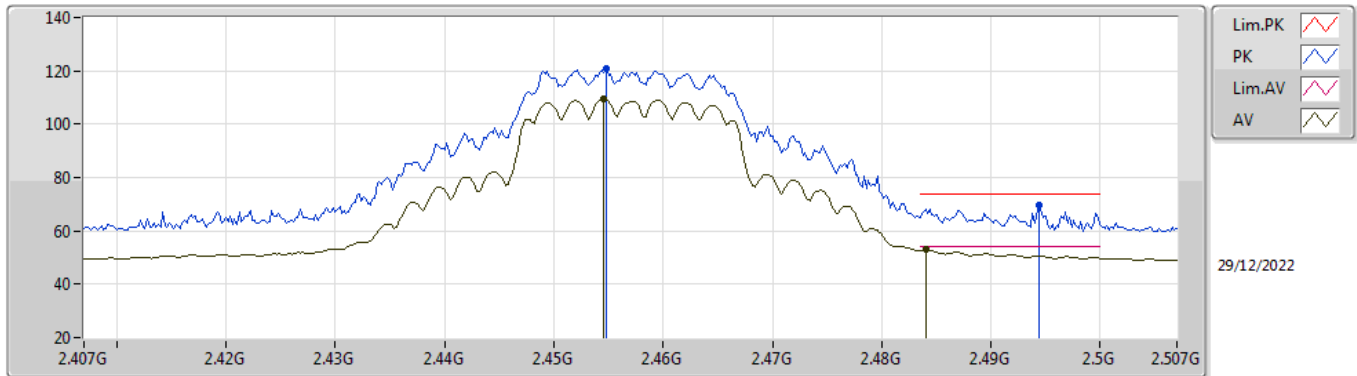


EUT Y_2TX
Setting 21.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87196G	48.32	74.00	-25.68	42.64	3	Horizontal	148	1.37	-	31.40	6.78	32.50
AV	4.87424G	35.50	54.00	-18.50	29.82	3	Horizontal	148	1.37	-	31.40	6.78	32.50
PK	7.30564G	58.35	74.00	-15.65	47.00	3	Horizontal	110	1.00	-	36.70	8.08	33.43
AV	7.3108G	45.45	54.00	-8.55	34.11	3	Horizontal	110	1.00	-	36.70	8.08	33.44

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

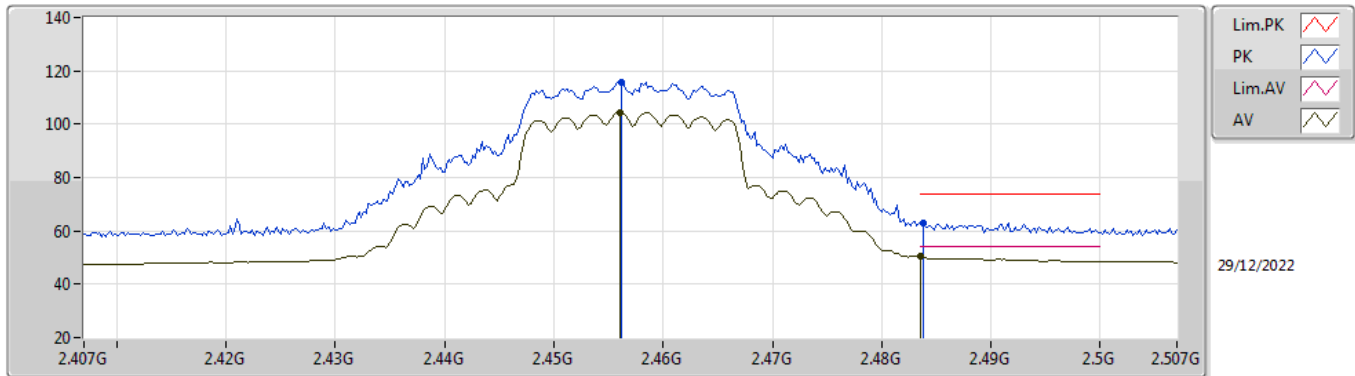


EUT Y_2TX
Setting 20
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4548G	120.66	Inf	-Inf	87.95	3	Vertical	151	2.34	-	27.60	5.11	-
AV	2.4546G	109.46	Inf	-Inf	76.75	3	Vertical	151	2.34	-	27.60	5.11	-
PK	2.4944G	69.70	74.00	-4.30	36.99	3	Vertical	151	2.34	-	27.60	5.11	-
AV	2.484G	52.85	54.00	-1.15	20.14	3	Vertical	151	2.34	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

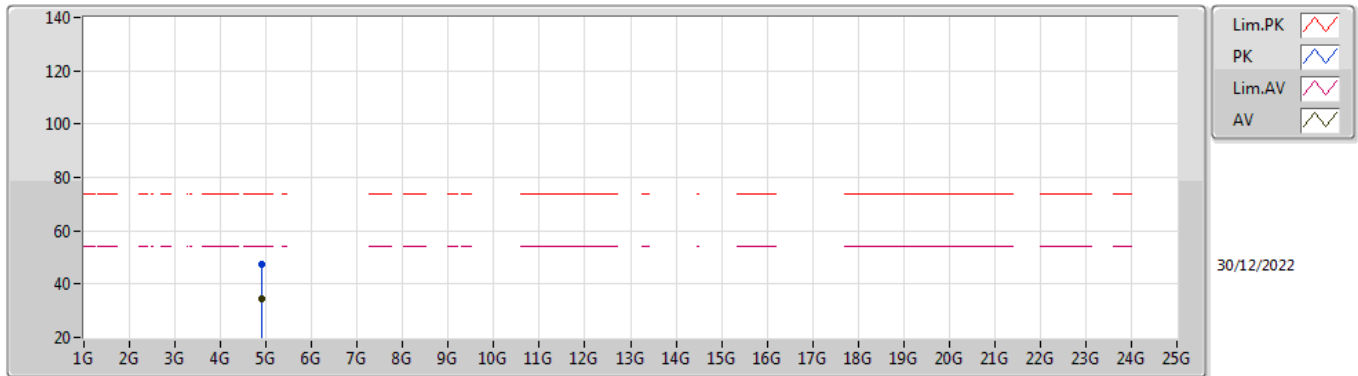


EUT Y_2TX
Setting 20
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4562G	115.93	Inf	-Inf	83.22	3	Horizontal	229	2.53	-	27.60	5.11	-
AV	2.456G	104.29	Inf	-Inf	71.58	3	Horizontal	229	2.53	-	27.60	5.11	-
PK	2.4838G	62.93	74.00	-11.07	30.22	3	Horizontal	229	2.53	-	27.60	5.11	-
AV	2.4835G	50.30	54.00	-3.70	17.59	3	Horizontal	229	2.53	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

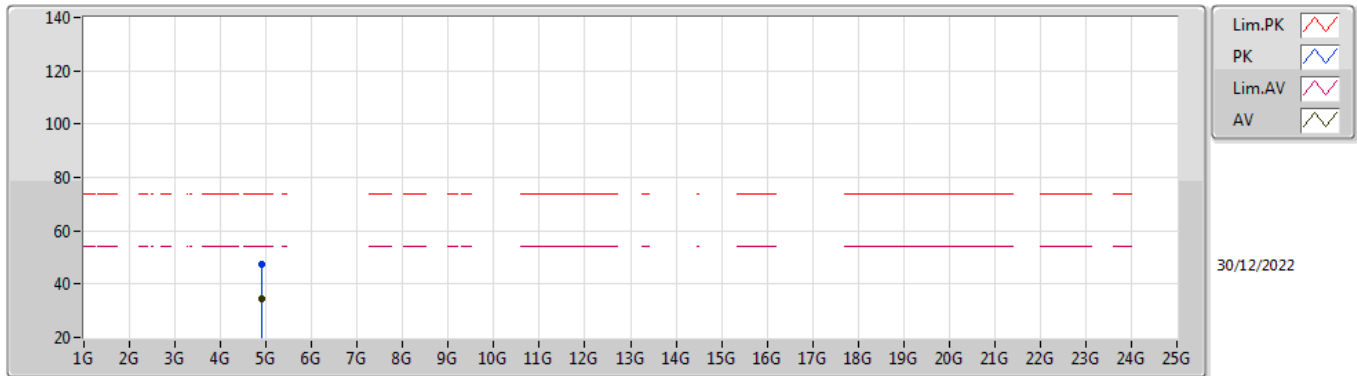


EUT Y_2TX
Setting 20
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91422G	47.48	74.00	-26.52	41.74	3	Vertical	331	1.22	-	31.43	6.79	32.48
AV	4.91318G	34.23	54.00	-19.77	28.49	3	Vertical	331	1.22	-	31.43	6.79	32.48

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

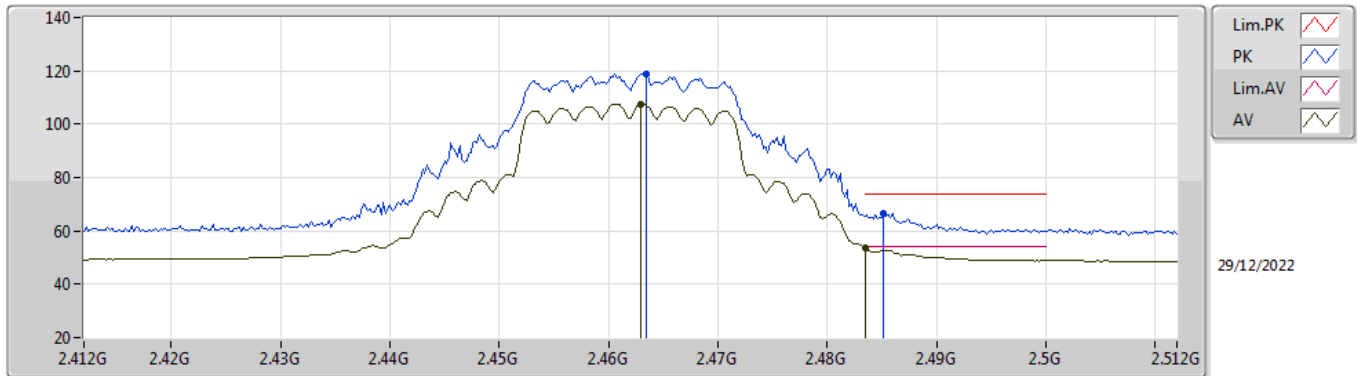


EUT Y_2TX
Setting 20
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91112G	47.27	74.00	-26.73	41.54	3	Horizontal	53	1.21	-	31.42	6.79	32.48
AV	4.91366G	34.23	54.00	-19.77	28.49	3	Horizontal	53	1.21	-	31.43	6.79	32.48

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

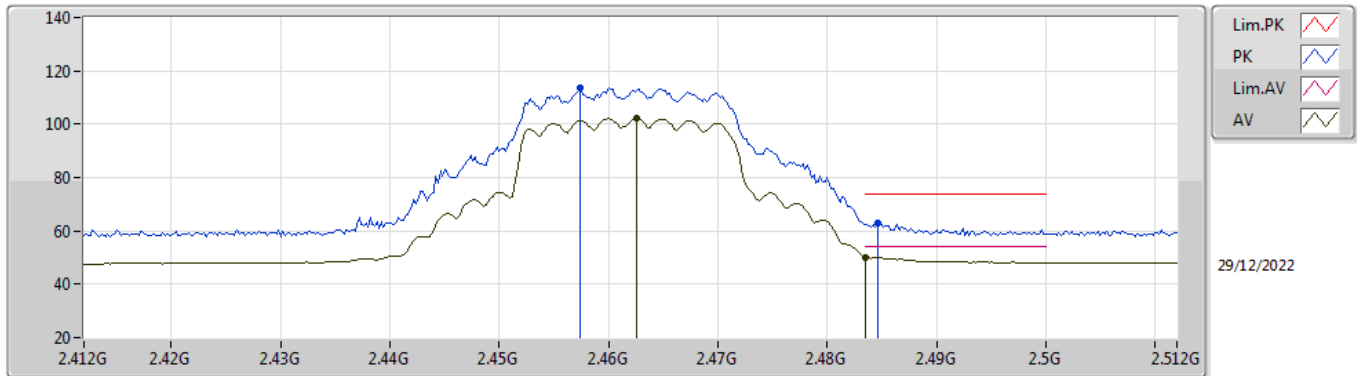


EUT Y_2TX
Setting 18.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4634G	118.87	Inf	-Inf	86.16	3	Vertical	148	2.62	-	27.60	5.11	-
AV	2.463G	107.51	Inf	-Inf	74.80	3	Vertical	148	2.62	-	27.60	5.11	-
PK	2.4852G	66.53	74.00	-7.47	33.82	3	Vertical	148	2.62	-	27.60	5.11	-
AV	2.4835G	53.56	54.00	-0.44	20.85	3	Vertical	148	2.62	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

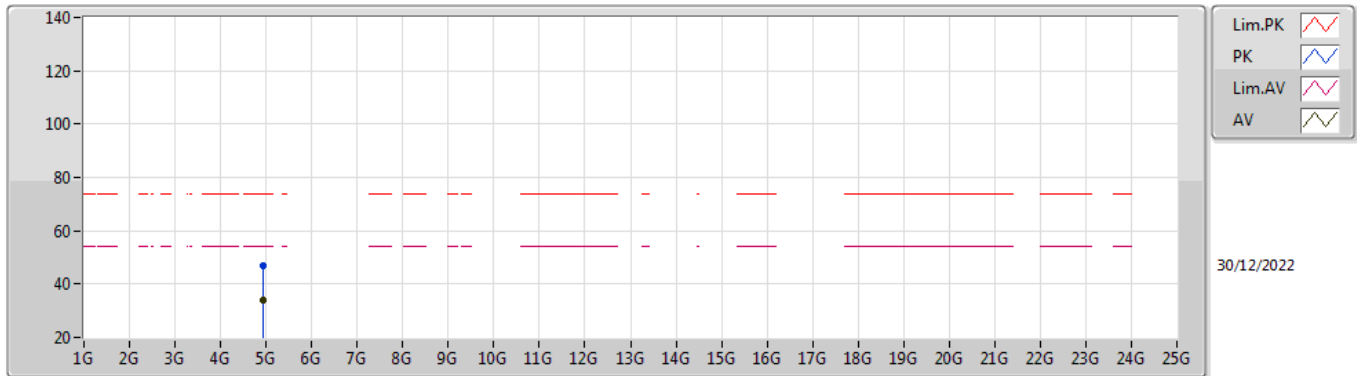


EUT Y_2TX
Setting 18.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4574G	113.67	Inf	-Inf	80.96	3	Horizontal	224	2.31	-	27.60	5.11	-
AV	2.4626G	102.44	Inf	-Inf	69.73	3	Horizontal	224	2.31	-	27.60	5.11	-
PK	2.4846G	62.74	74.00	-11.26	30.03	3	Horizontal	224	2.31	-	27.60	5.11	-
AV	2.4835G	50.10	54.00	-3.90	17.39	3	Horizontal	224	2.31	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

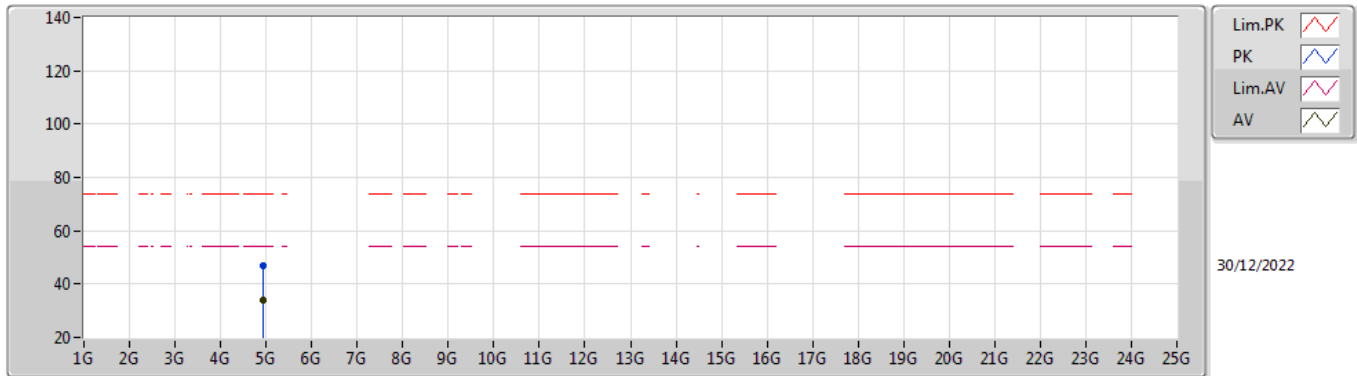


EUT Y_2TX
Setting 18.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91946G	46.83	74.00	-27.17	41.08	3	Vertical	151	2.58	-	31.44	6.79	32.48
AV	4.92412G	34.03	54.00	-19.97	28.26	3	Vertical	151	2.58	-	31.45	6.79	32.47

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

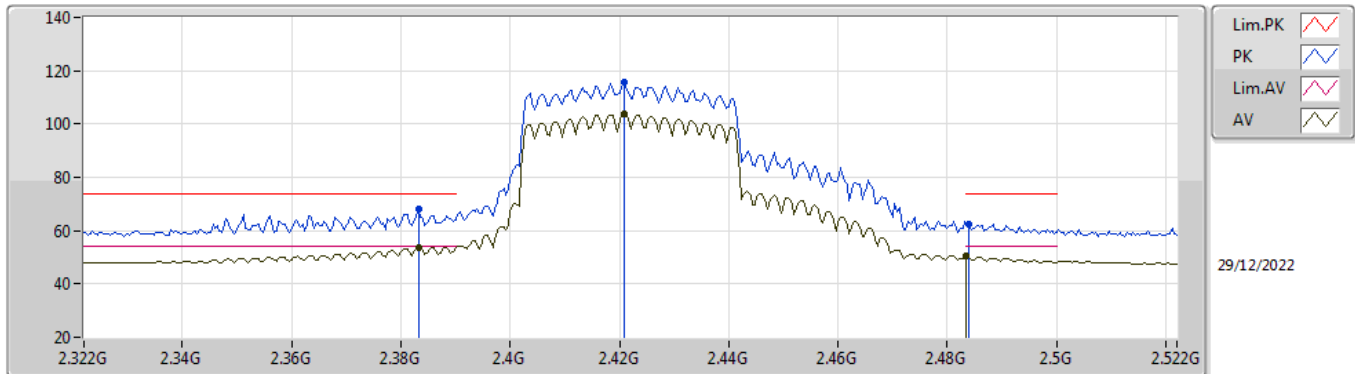


EUT Y_2TX
Setting 18.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92442G	46.94	74.00	-27.06	41.17	3	Horizontal	353	1.53	-	31.45	6.79	32.47
AV	4.92402G	33.95	54.00	-20.05	28.18	3	Horizontal	353	1.53	-	31.45	6.79	32.47

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

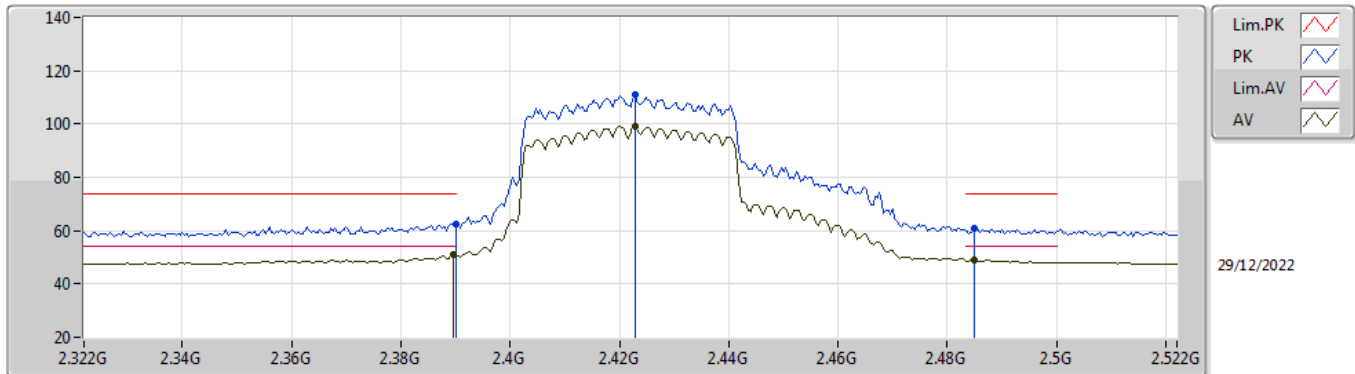


EUT Y_2TX
Setting 17.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3832G	67.91	74.00	-6.09	35.17	3	Vertical	158	1.77	-	27.67	5.07	-
AV	2.3832G	53.67	54.00	-0.33	20.93	3	Vertical	158	1.77	-	27.67	5.07	-
PK	2.4208G	115.75	Inf	-Inf	83.04	3	Vertical	158	1.77	-	27.60	5.11	-
AV	2.4208G	103.80	Inf	-Inf	71.09	3	Vertical	158	1.77	-	27.60	5.11	-
PK	2.484G	62.65	74.00	-11.35	29.94	3	Vertical	158	1.77	-	27.60	5.11	-
AV	2.4835G	50.30	54.00	-3.70	17.59	3	Vertical	158	1.77	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

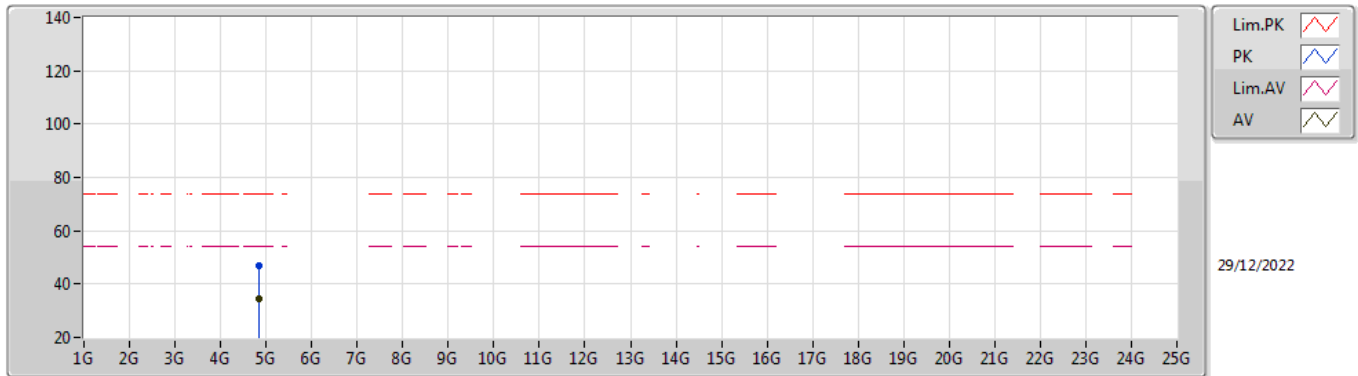


EUT Y_2TX
Setting 17.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	62.31	74.00	-11.69	29.58	3	Horizontal	225	2.33	-	27.64	5.09	-
AV	2.3896G	50.99	54.00	-3.01	18.26	3	Horizontal	225	2.33	-	27.64	5.09	-
PK	2.4228G	110.80	Inf	-Inf	78.09	3	Horizontal	225	2.33	-	27.60	5.11	-
AV	2.4228G	99.19	Inf	-Inf	66.48	3	Horizontal	225	2.33	-	27.60	5.11	-
PK	2.4848G	61.09	74.00	-12.91	28.38	3	Horizontal	225	2.33	-	27.60	5.11	-
AV	2.4848G	49.03	54.00	-4.97	16.32	3	Horizontal	225	2.33	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

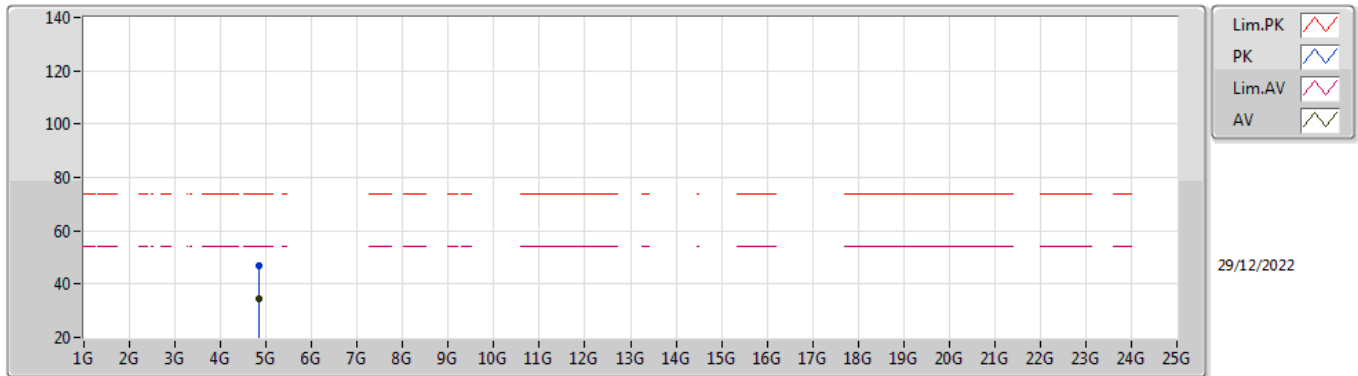


EUT Y_2TX
Setting 17.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84092G	47.08	74.00	-26.92	41.45	3	Vertical	110	1.72	-	31.38	6.76	32.51
AV	4.84044G	34.33	54.00	-19.67	28.70	3	Vertical	110	1.72	-	31.38	6.76	32.51

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

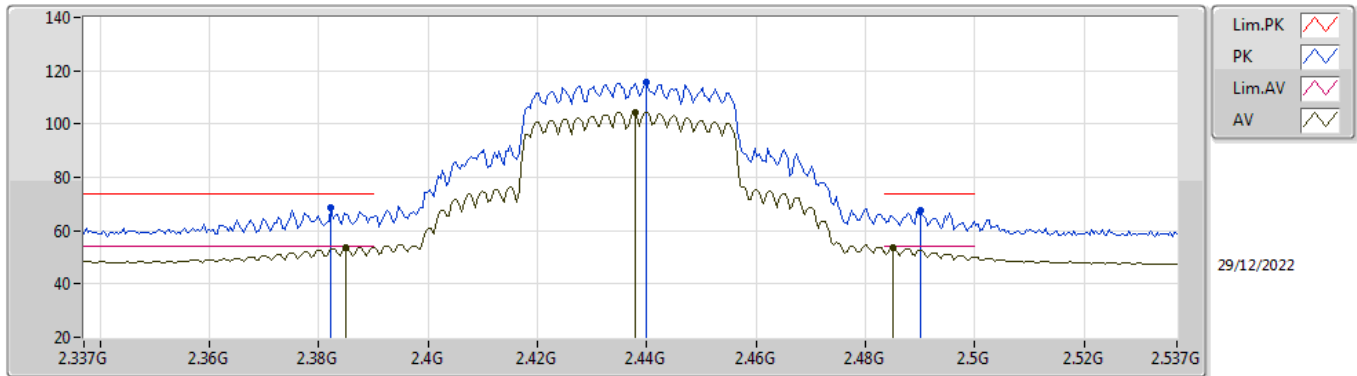


EUT Y_2TX
Setting 17.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84394G	46.94	74.00	-27.06	41.29	3	Horizontal	205	2.25	-	31.39	6.77	32.51
AV	4.8402G	34.33	54.00	-19.67	28.70	3	Horizontal	205	2.25	-	31.38	6.76	32.51

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

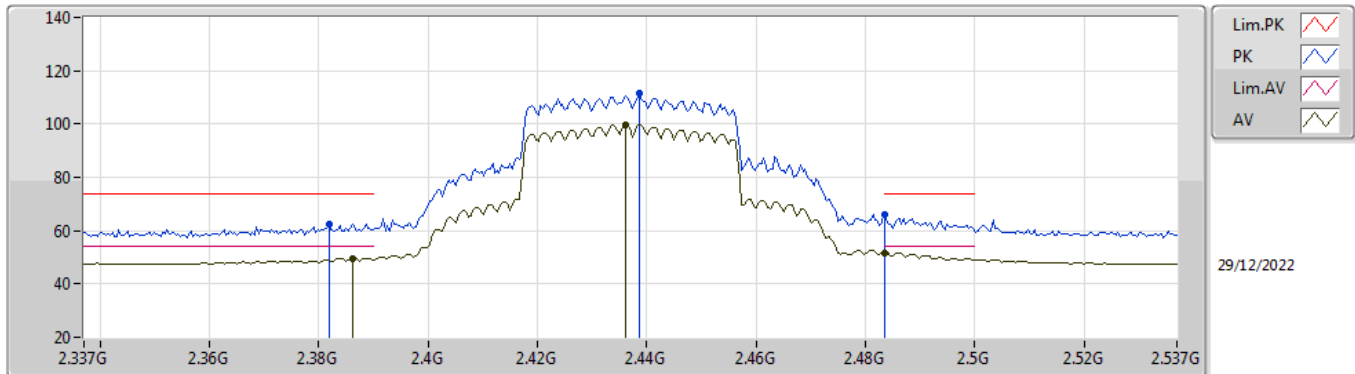


EUT Y_2TX
Setting 18.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3822G	68.42	74.00	-5.58	35.68	3	Vertical	6	1.71	-	27.67	5.07	-
AV	2.385G	53.53	54.00	-0.47	20.79	3	Vertical	6	1.71	-	27.66	5.08	-
PK	2.4398G	115.90	Inf	-Inf	83.19	3	Vertical	6	1.71	-	27.60	5.11	-
AV	2.4378G	104.33	Inf	-Inf	71.62	3	Vertical	6	1.71	-	27.60	5.11	-
PK	2.4902G	67.45	74.00	-6.55	34.74	3	Vertical	6	1.71	-	27.60	5.11	-
AV	2.485G	53.42	54.00	-0.58	20.71	3	Vertical	6	1.71	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

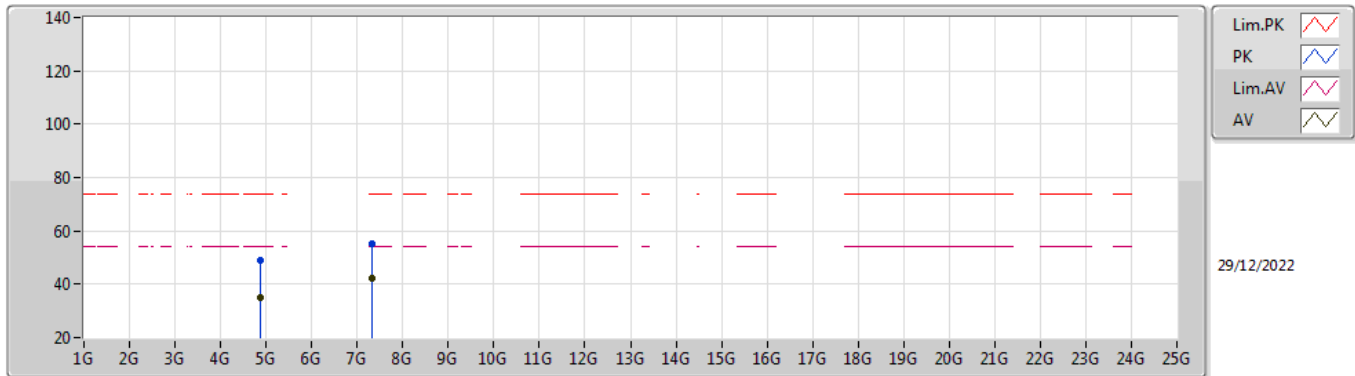


EUT Y_2TX
Setting 18.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3818G	62.52	74.00	-11.48	29.78	3	Horizontal	224	2.33	-	27.67	5.07	-
AV	2.3862G	49.68	54.00	-4.32	16.94	3	Horizontal	224	2.33	-	27.66	5.08	-
PK	2.4386G	111.36	Inf	-Inf	78.65	3	Horizontal	224	2.33	-	27.60	5.11	-
AV	2.4362G	99.88	Inf	-Inf	67.17	3	Horizontal	224	2.33	-	27.60	5.11	-
PK	2.4835G	65.80	74.00	-8.20	33.09	3	Horizontal	224	2.33	-	27.60	5.11	-
AV	2.4835G	51.75	54.00	-2.25	19.04	3	Horizontal	224	2.33	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

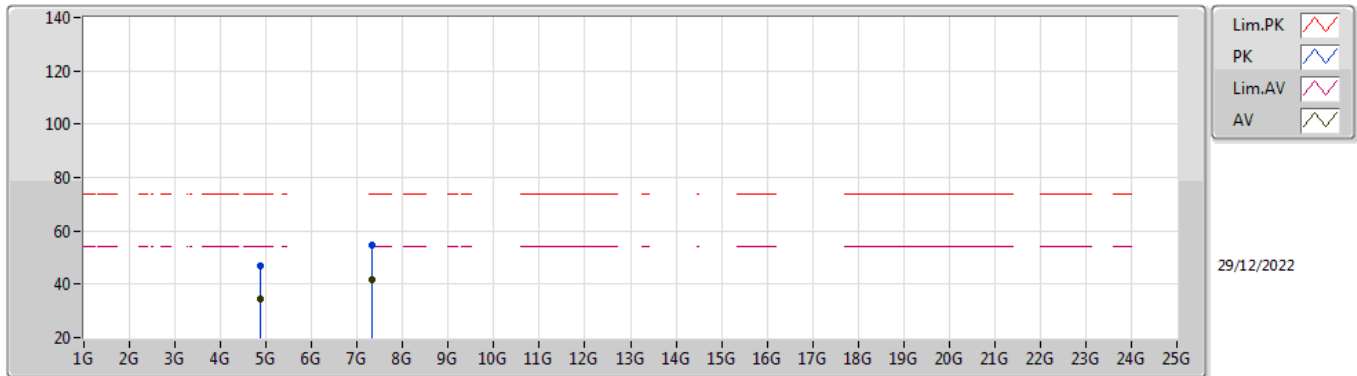


EUT Y_2TX
Setting 18.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87423G	48.72	74.00	-25.28	43.04	3	Vertical	72	1.80	-	31.40	6.78	32.50
AV	4.87184G	35.10	54.00	-18.90	29.42	3	Vertical	72	1.80	-	31.40	6.78	32.50
PK	7.3118G	55.08	74.00	-18.92	43.74	3	Vertical	87	1.00	-	36.70	8.08	33.44
AV	7.31058G	42.10	54.00	-11.90	30.76	3	Vertical	87	1.00	-	36.70	8.08	33.44

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

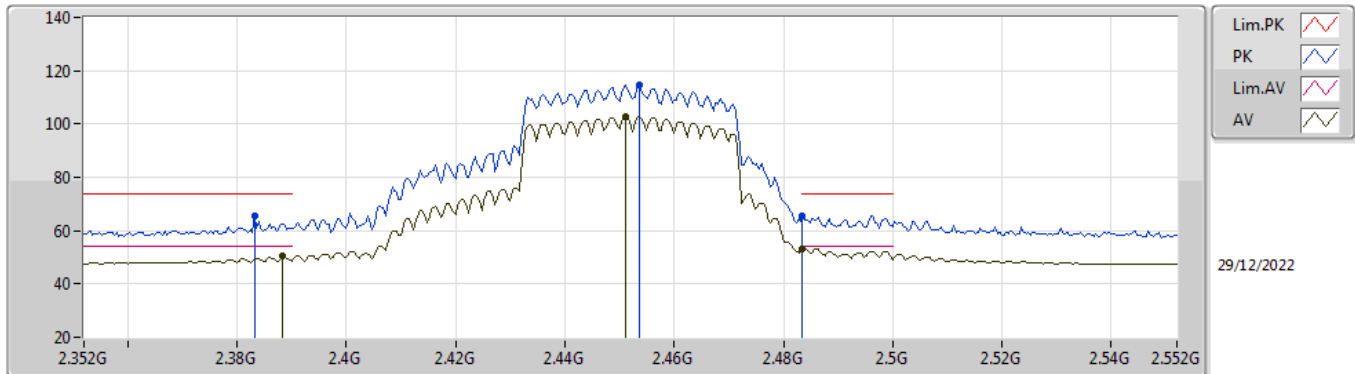


EUT Y_2TX
Setting 18.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87194G	46.89	74.00	-27.11	41.21	3	Horizontal	140	1.25	-	31.40	6.78	32.50
AV	4.87162G	34.63	54.00	-19.37	28.95	3	Horizontal	140	1.25	-	31.40	6.78	32.50
PK	7.31036G	54.44	74.00	-19.56	43.10	3	Horizontal	47	1.80	-	36.70	8.08	33.44
AV	7.31075G	41.76	54.00	-12.24	30.42	3	Horizontal	47	1.80	-	36.70	8.08	33.44

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

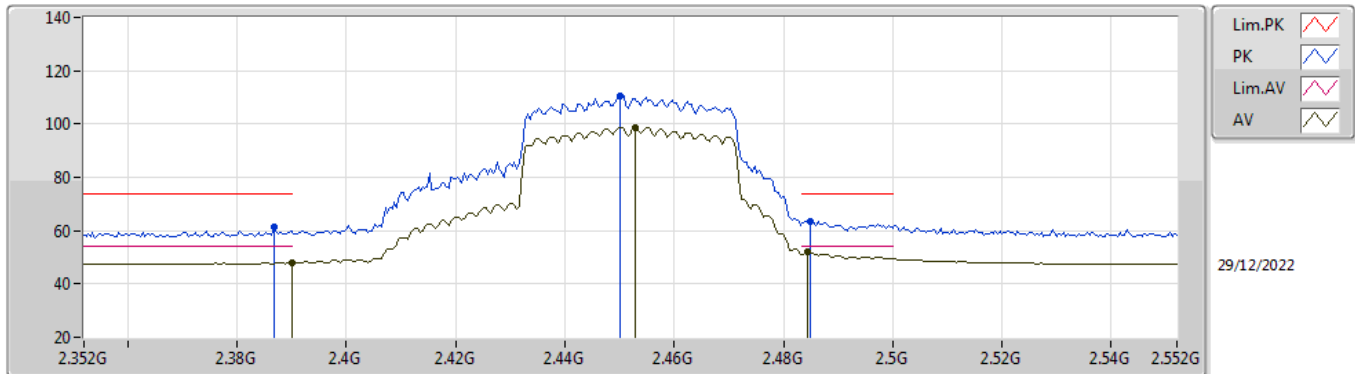


EUT Y_2TX
Setting 17.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3832G	65.54	74.00	-8.46	32.80	3	Vertical	2	1.80	-	27.67	5.07	-
AV	2.3884G	50.26	54.00	-3.74	17.53	3	Vertical	2	1.80	-	27.65	5.08	-
PK	2.4536G	114.63	Inf	-Inf	81.92	3	Vertical	2	1.80	-	27.60	5.11	-
AV	2.4512G	103.00	Inf	-Inf	70.29	3	Vertical	2	1.80	-	27.60	5.11	-
PK	2.4835G	65.70	74.00	-8.30	32.99	3	Vertical	2	1.80	-	27.60	5.11	-
AV	2.4835G	53.14	54.00	-0.86	20.43	3	Vertical	2	1.80	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

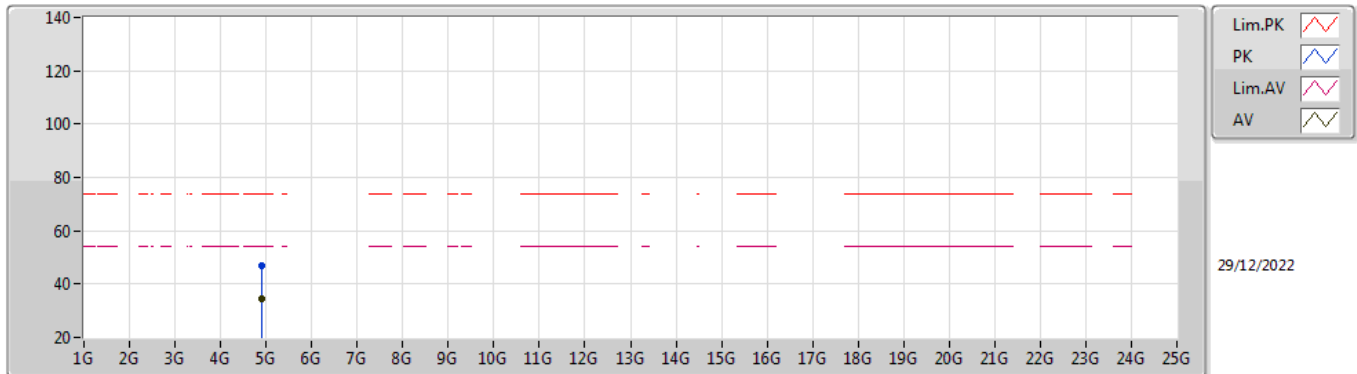


EUT Y_2TX
Setting 17.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3868G	61.32	74.00	-12.68	28.59	3	Horizontal	223	1.86	-	27.65	5.08	-
AV	2.39G	48.13	54.00	-5.87	15.40	3	Horizontal	223	1.86	-	27.64	5.09	-
PK	2.45G	110.41	Inf	-Inf	77.70	3	Horizontal	223	1.86	-	27.60	5.11	-
AV	2.4528G	98.80	Inf	-Inf	66.09	3	Horizontal	223	1.86	-	27.60	5.11	-
PK	2.4848G	63.68	74.00	-10.32	30.97	3	Horizontal	223	1.86	-	27.60	5.11	-
AV	2.4844G	52.08	54.00	-1.92	19.37	3	Horizontal	223	1.86	-	27.60	5.11	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

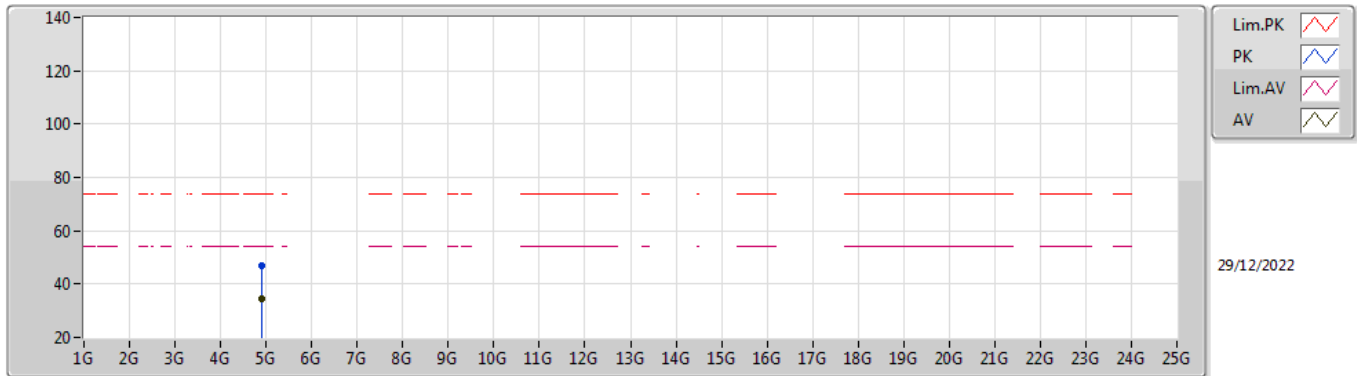


EUT Y_2TX
Setting 17.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90836G	47.02	74.00	-26.98	41.29	3	Vertical	221	2.32	-	31.42	6.79	32.48
AV	4.9082G	34.34	54.00	-19.66	28.61	3	Vertical	221	2.32	-	31.42	6.79	32.48

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



EUT Y_2TX
Setting 17.5
06-H-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90826G	46.84	74.00	-27.16	41.11	3	Horizontal	350	2.92	-	31.42	6.79	32.48
AV	4.90858G	34.34	54.00	-19.66	28.61	3	Horizontal	350	2.92	-	31.42	6.79	32.48