

FCC Radio Test Report

FCC ID : H8NMAX2V1K
Equipment : WiFi 6E MDU Router
Model Name : MAX2V1K
Applicant : ASKEY COMPUTER CORPORATION
10F, No.119, Jiankang Rd., Zhonghe Dist., New Taipei City,
Taiwan
Manufacturer : ASKEY COMPUTER CORPORATION
10F, No.119, Jiankang Rd., Zhonghe Dist., New Taipei City,
Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 09, 2023, and testing was started from Mar. 20, 2023 and completed on Jun. 27, 2023. We, SPORTON INTERNATIONAL INC. Hsinhua 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Ben Tesng

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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History of this test report

Report No.	Version	Description	Issued Date
FR330713AC	01	Initial issue of report	Jul. 12, 2023



Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Ryan Hsiao

Report Producer: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20, ax(HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax(HEW40)	2422-2452	3-9 [7]

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	4TX
2.4-2.4835GHz	802.11g	20	4TX
2.4-2.4835GHz	802.11ax HEW20	20	4TX
2.4-2.4835GHz	802.11ax HEW40	40	4TX

Beamforming

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11ax HEW20-BF	20	4TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	4TX

Note:

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



1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	adant	STAR4245	PIFA-Like	I-PEX	2.4G
2	adant	STAR4245	PIFA-Like	I-PEX	2.4G
3	adant	STAR4245	PIFA-Like	I-PEX	2.4G
4	adant	STAR4245	PIFA-Like	I-PEX	2.4G
5	adant	STAR4245	PIFA-Like	I-PEX	5G
6	adant	STAR4245	PIFA-Like	I-PEX	5G
7	adant	STAR4245	PIFA-Like	I-PEX	5G
8	adant	STAR4245	PIFA-Like	I-PEX	5G
9	Galtronics	02102475-07795-1	PCB	I-PEX	6G
10	Galtronics	02102475-07795-2	PCB	I-PEX	6G
11	Galtronics	02102475-07795-3	PCB	I-PEX	6G
12	Galtronics	02102475-07795-4	PCB	I-PEX	6G
13	Galtronics	02102073-07795-1	PCB	I-PEX	BT+Thread
14	Galtronics	02102073-07795-2	PCB	I-PEX	Thread

Ant.	Port	Gain (dBi)							
		2.4G	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4	BT	Thread
1	1	4.7	-	-	-	-	-	-	-
2	2	5.8	-	-	-	-	-	-	-
3	3	5.5	-	-	-	-	-	-	-
4	4	4.8	-	-	-	-	-	-	-
5	1	-	5.5	5.5	5.3	4.9	4.9	-	-
6	2	-	5.8	5.8	5.9	5.5	5.5	-	-
7	3	-	5.8	5.8	5.9	5.7	5.7	-	-
8	4	-	5.6	5.6	5.0	5.4	5.4	-	-
Ant.	Port	-	-	U-NII-5	U-NII-6	U-NII-7	U-NII-8		
9	1	-	-	5.555	5.539	5.259	4.785	-	-
10	2	-	-	4.931	4.494	3.604	4.123	-	-
11	3	-	-	5.382	5.247	4.903	4.711	-	-
12	4	-	-	3.534	3.451	4.063	4.325	-	-
13	1	-	-	-	-	-	-	3.355	3.355
14	2	-	-	-	-	-	-	-	4.950

Note 1: The EUT has fourteen antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax mode (4TX/4RX)

Ant. 1 (port 1), Ant. 2 (port 2), Ant. 3 (port 3) and Ant. 4 (port 4) could transmit/receive simultaneously.

For 5GHz function:

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

Ant. 5 (port 1), Ant. 6 (port 2), Ant. 7 (port 3) and Ant. 8 (port 4) could transmit/receive simultaneously.

For 6GHz function:

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

Ant. 9 (port 1), Ant. 10 (port 2), Ant. 11 (port 3) and Ant. 12 (port 4) could transmit/receive simultaneously.

For BT function:

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

Ant. 13 (port 1) could transmit/receive simultaneously.

For Thread function:

For IEEE 802.15.4 Thread mode (2TX/2RX)

Ant. 13 (port 1) and Ant. 14 (port 2) could transmit/receive simultaneously.

Note 2: Directional gain information

	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{IS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{IS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{IS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From PoE		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
Beamforming Function	☒ With beamforming	☐ Without beamforming	
Resource Unit(802.11ax)	☒ Full RU	☐ Partial RU	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:	...	
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:	...	
☐	Other:		

1.1.4 Mode Test Duty Cycle

Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b_Nss1,(1Mbps)_4TX	0.614	2.12	688.75u	3k
802.11g_Nss1,(6Mbps)_4TX	0.941	0.26	1.977m	1k
802.11ax HEW20_Nss1,(MCS0)_4TX	0.768	1.15	5.446m	300
802.11ax HEW40_Nss1,(MCS0)_4TX	0.816	0.88	5.446m	300

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

Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	0.927	0.33	1.916m	1k
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	0.962	0.17	1.995m	1k

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

1.2 Testing Applied Standards

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

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

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	22.6~23.4℃ / 54.7~56.3%	03/Apr/2023
RF Conducted	TH07-HY	Xie Xun	23.5~24.7℃ / 55~59%	20/Mar/2023~27/Jun/2023
Radiated (Non- Beamforming)	03CH03-HY	Edward Wang	21.4~22.6℃ / 54~58%	28/Mar/2023~24/May/2023
Radiated (Beamforming)	03CH03-HY	Bart Chen	21.5~24.2℃ / 51~57%	21/Jun/2023-26/Jun/2023
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated (Co-location)	03CH09-HY	Henry Ho	22.2~23.4℃ / 50~52%	07/Apr/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
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	qdart_conn.win.1.0_installer_00097.1
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Non-Beamforming

Mode	Power Setting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	19
2417MHz	19
2437MHz	19.5
2462MHz	19.5
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	23.5
2417MHz	23.5
2437MHz	25
2462MHz	25
802.11ax HEW20_Nss1,(MCS0)_4TX	-
2412MHz	23
2417MHz	23
2437MHz	24.5
2457MHz	24.5
2462MHz	24.5
802.11ax HEW40_Nss1,(MCS0)_4TX	-
2422MHz	23.5
2427MHz	24.5
2437MHz	24.5
2447MHz	24
2452MHz	23.5

**Beamforming**

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
2412MHz	22
2417MHz	22
2437MHz	23
2457MHz	23
2462MHz	23
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
2422MHz	23
2427MHz	23
2437MHz	23
2447MHz	23
2452MHz	23

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	PoE mode

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	PoE mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	2.4G+5G+6E+BT
2	2.4G+5G+6E+Thread
Refer to Sporton Test Report No.: FA330713 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
PoE	Brand Name	DELTA	Model Name	ADH-45AR N
	Power Rating	I/P: 100 - 240Vac, 1.5A, O/P: 56.0Vdc, 0.805A		

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

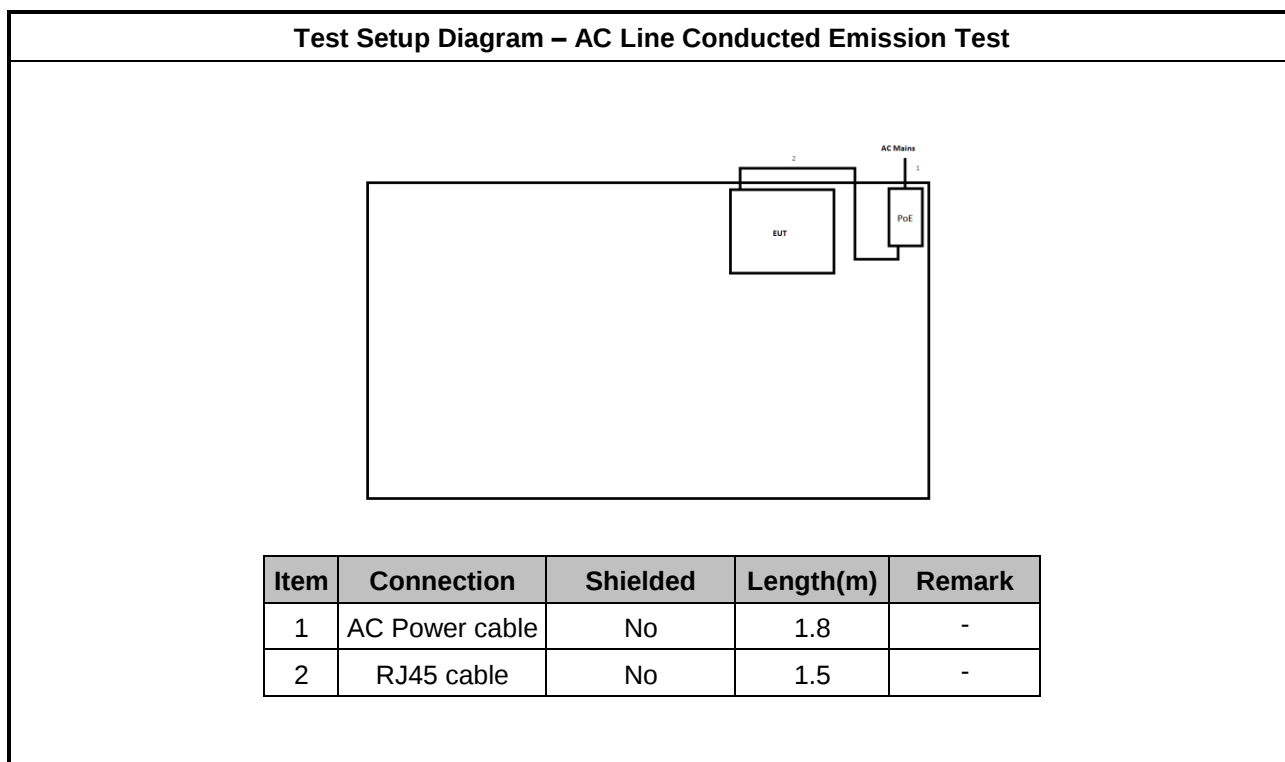
Support Equipment

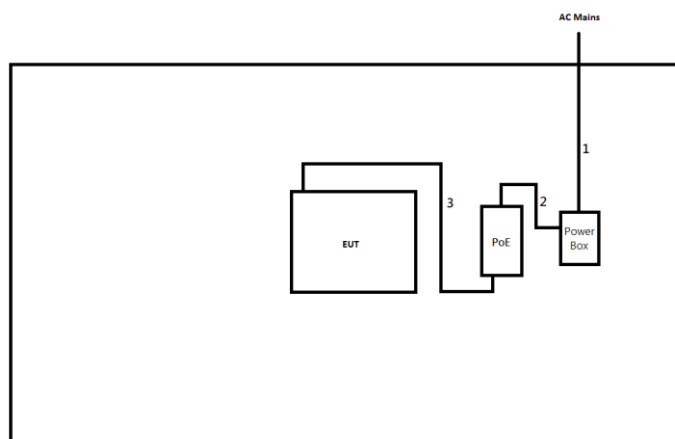
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 cable	Power sync	CAT-6E-10	-	-
2	AC Power cable	I-SHENG	AC CORD 600mm	-	-
3	RJ45 cable	Power sync	CAT-6E-10	-	-

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

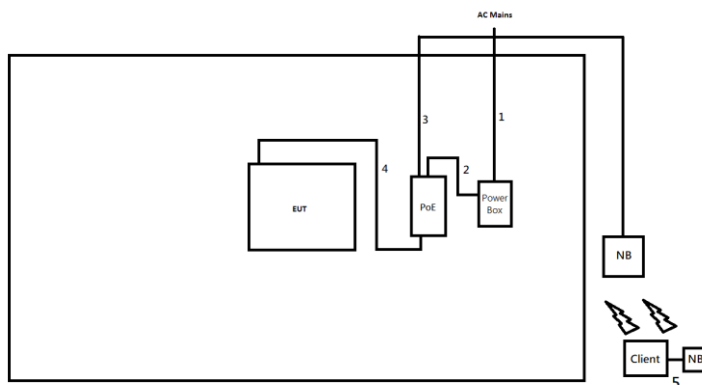
Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 cable	Power sync	CAT-6E-10	-	-
2	AC Power cable	I-SHENG	AC CORD 600mm	-	-
3	RJ45 cable	Power sync	CAT-6E-10	-	-
4	Notebook for AP	Dell	P48F	-	Remote
5	Adapter for NB	HP	PPP012L-E	-	Remote
6	Client for BF	Askey	RT5031W-D187-RB-RoHS	-	Remote Provided by Customer
7	Adapter for Client	DELTA	ADH-36LW B	-	Remote Provided by Customer
8	RJ45 cable	Powersync	CAT-6E-10	-	Remote
9	RJ45 cable	Power sync	CAT-6E-10	-	Remote

Test Setup Diagram



Test Setup Diagram - Radiated Test (Non-Beamforming)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	1.8	-
3	RJ45 cable	No	1.5	-

Test Setup Diagram - Radiated Test (Beamforming)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	1.8	-
3	RJ45 cable	No	10.0	-
4	RJ45 cable	No	1.5	-
5	RJ45 cable	No	0.5	-



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

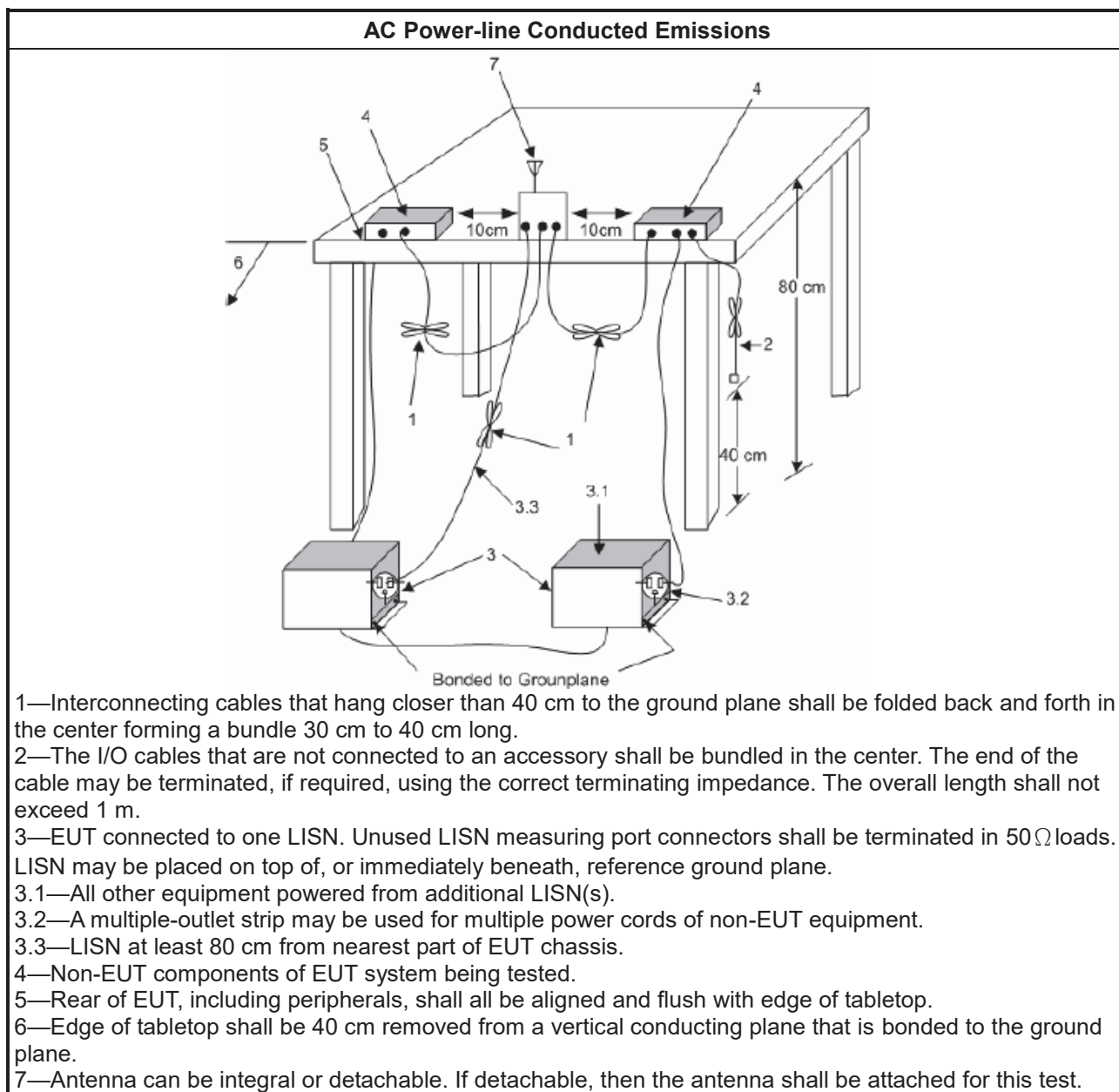
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

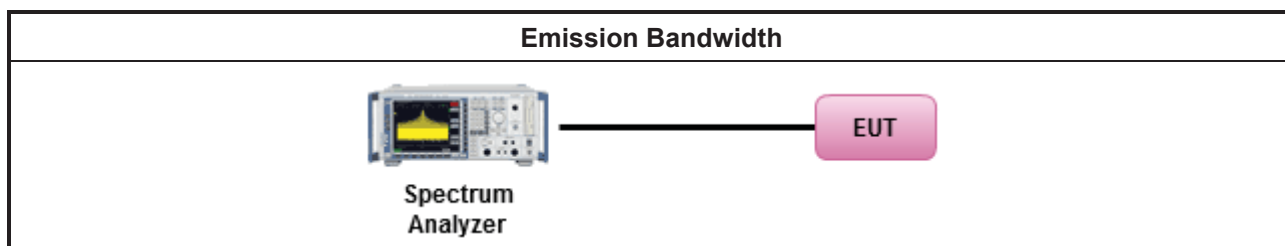
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

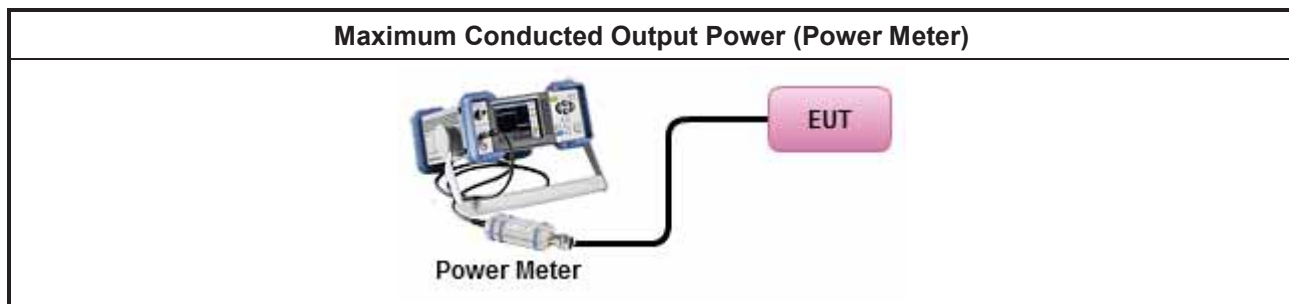
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

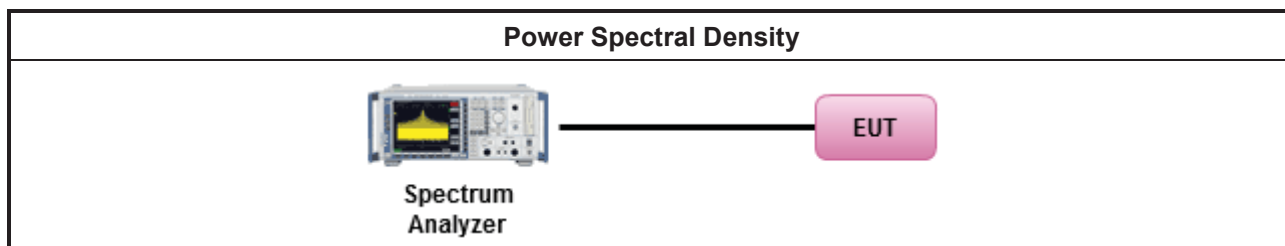
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

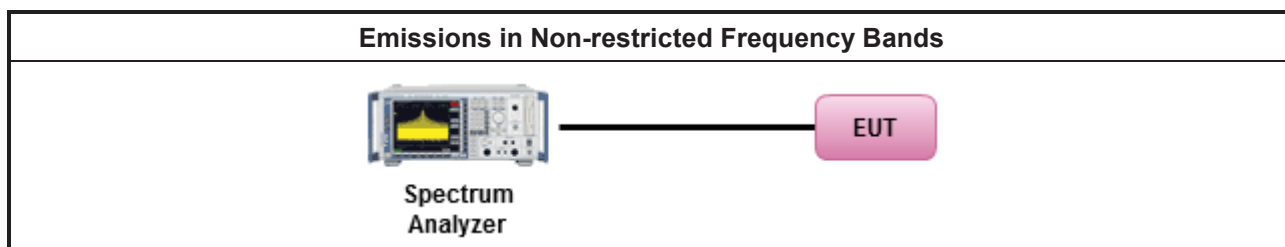
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

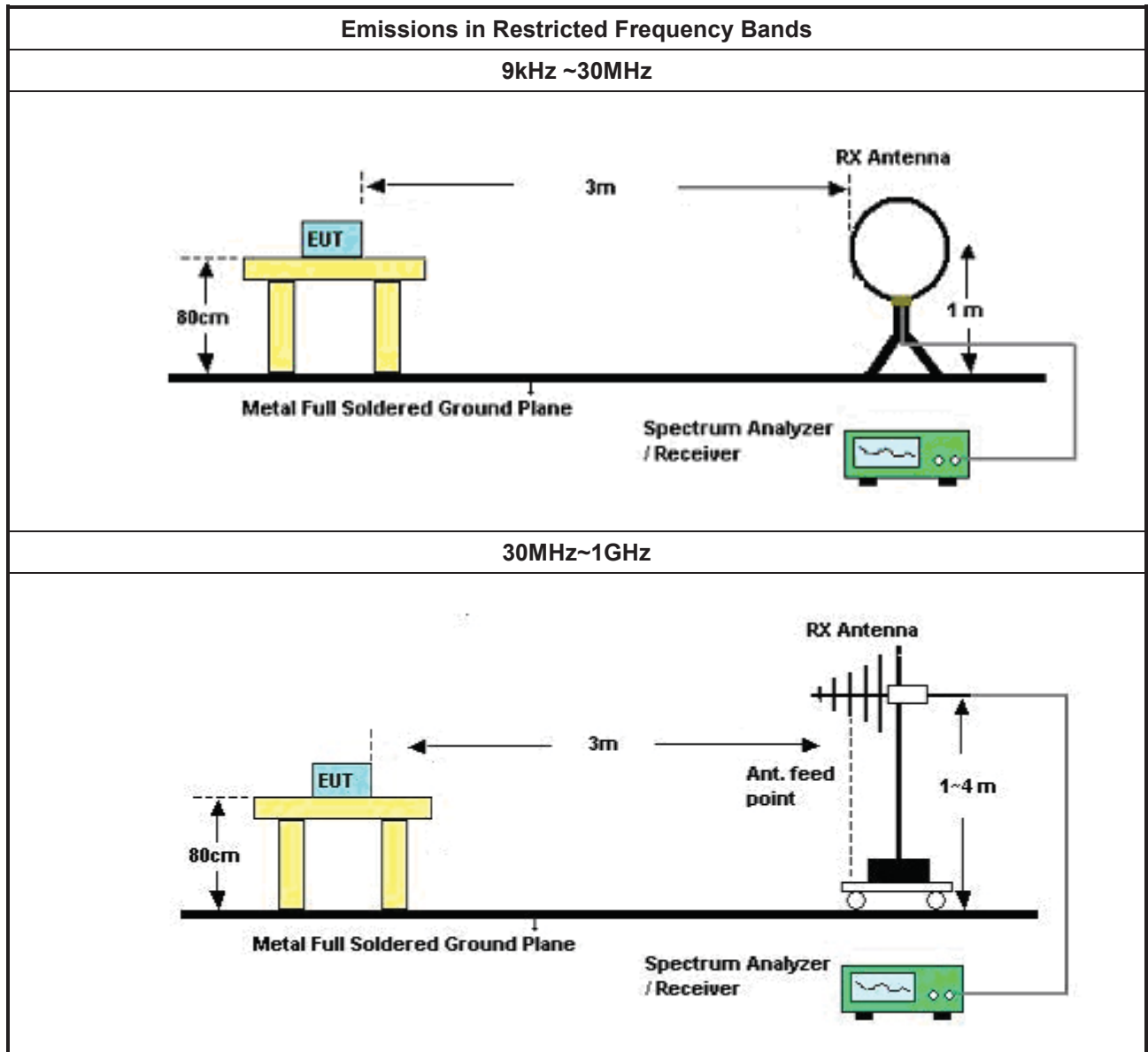
Test Method	
	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	For the transmitter unwanted emissions shall be measured using following options below:
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	For the transmitter band-edge emissions shall be measured using following options below:
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
	Use the following spectrum analyzer settings:
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

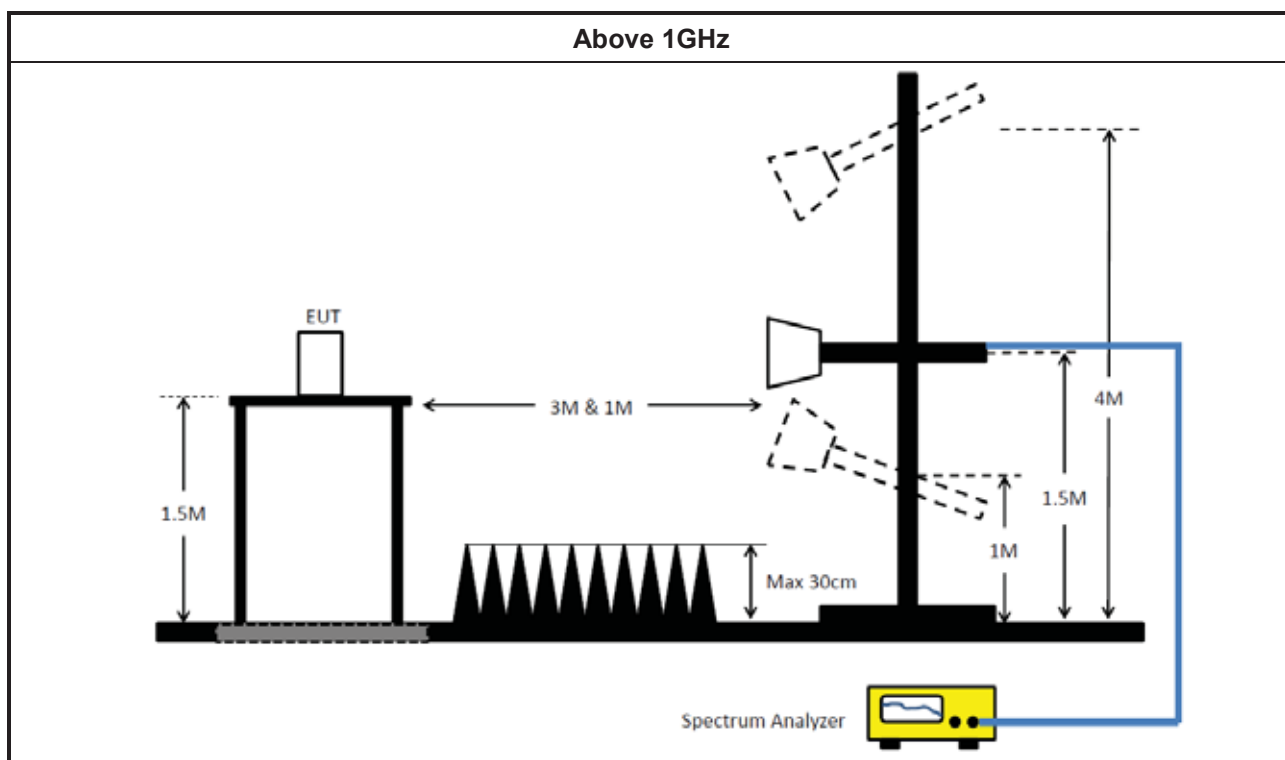
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 Test Setup





3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	16/Feb/2023	15/Feb/2024
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	28/Feb/2023	27/Feb/2024
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	25/Oct/2022	24/Oct/2023
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	14/Feb/2023	13/Feb/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	14/Dec/2022	13/Dec/2023
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	14/Dec/2022	13/Dec/2023
SENSE-15247_DTS	Sporton	V5.11.3	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (Non-Beamforming)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	01/Aug/2022	31/Jul/2023
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	02/Aug/2022	01/Aug/2023
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	26/Oct/2022	25/Oct/2023
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	08/Apr/2022	07/Apr/2023
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	07/Apr/2023	06/Apr/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMC	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	16/Oct/2022	15/Oct/2023
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	13/Jun/2022	12/Jun/2023
RF Cable-R03m	Jye Bao	RG142	03CH03-cable-02	30MHz~1GHz	23/Mar/2023	22/Mar/2024
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	03CH03-cable-01	1GHz~40GHz	27/Jul/2022	26/Jul/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	1248	18 GHz ~ 40 GHz	22/Aug/2022	21/Aug/2023
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	14/Jul/2022	13/Jul/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060874	18GHz ~ 40GHz	23/Aug/2022	22/Aug/2023
Loop Antenna	R&S	HFH2-Z2	100330	9kHz~30MHz	01/Nov/2022	31/Oct/2023
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	30/May/2022	29/May/2023
SENSE_15247_DTS	Sporton	V5.11	NA	NA	NA	NA

Instrument for Radiated Test (Beamforming)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	02/Aug/2022	01/Aug/2023
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	26/Oct/2022	25/Oct/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	03CH03-cable-01	1GHz~40GHz	27/Jul/2022	26/Jul/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	1248	18 GHz ~ 40 GHz	22/Aug/2022	21/Aug/2023
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	14/Jul/2022	13/Jul/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060874	18GHz ~ 40GHz	23/Aug/2022	22/Aug/2023
Loop Antenna	R&S	HFH2-Z2	100330	9kHz~30MHz	01/Nov/2022	31/Oct/2023
SENSE_15247_DTS	Sporton	V5.11	NA	NA	NA	NA

**Instrument for Radiated Test (Co-location)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Site V.S.W.R	Riken	SAC-3M	03CH09-HY	1GHz~18GHz 3m	14/Mar/2023	13/Mar/2024
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	30/Dec/2022	29/Dec/2023
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	21/Feb/2023	20/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	14/May/2022	13/May/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	16/Mar/2023	15/Mar/2024
SENSE-EMI	Sporton	Sporton	V5.11.3	NA	NA	NA



Conducted Emissions at Powerline_Non-Beamforming

Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	23.495M	41.71	50.00	-8.29	Neutral



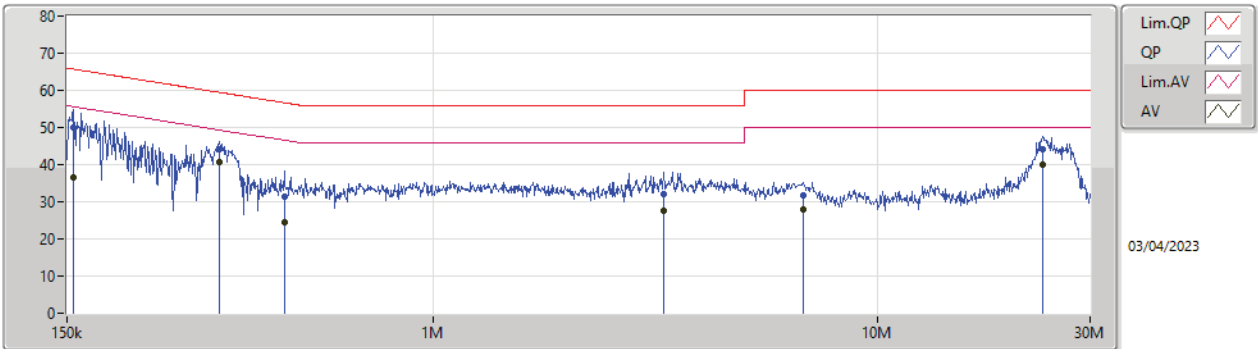
Conducted Emissions at Powerline_Non-Beamforming

Appendix A

Result

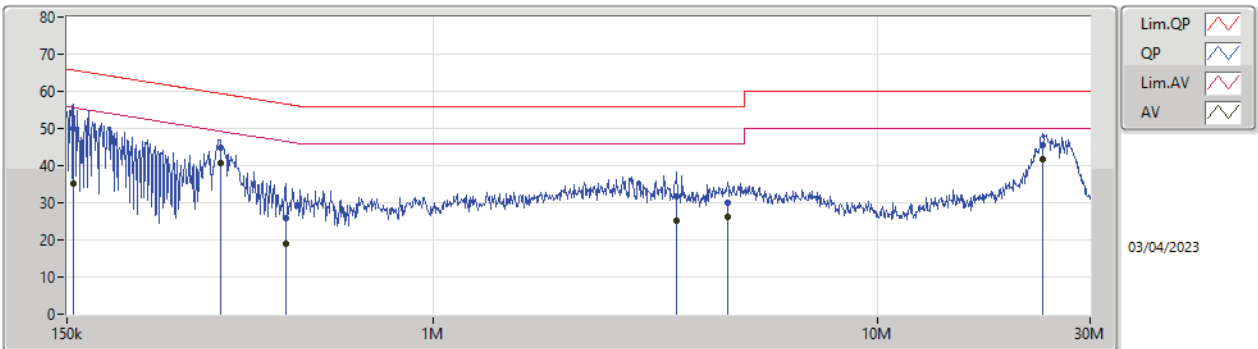
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	155.487k	50.10	65.69	-15.59	Line	-
Mode 1	Pass	AV	155.487k	36.66	55.69	-19.03	Line	-
Mode 1	Pass	QP	329.331k	44.12	59.46	-15.34	Line	-
Mode 1	Pass	AV	329.331k	40.60	49.46	-8.86	Line	-
Mode 1	Pass	QP	462.379k	31.29	56.65	-25.36	Line	-
Mode 1	Pass	AV	462.379k	24.40	46.65	-22.25	Line	-
Mode 1	Pass	QP	3.296M	32.03	56.00	-23.97	Line	-
Mode 1	Pass	AV	3.296M	27.64	46.00	-18.36	Line	-
Mode 1	Pass	QP	6.789M	31.85	60.00	-28.15	Line	-
Mode 1	Pass	AV	6.789M	27.95	50.00	-22.05	Line	-
Mode 1	Pass	QP	23.401M	44.03	60.00	-15.97	Line	-
Mode 1	Pass	AV	23.401M	40.07	50.00	-9.93	Line	-
Mode 1	Pass	QP	155.487k	50.10	65.69	-15.59	Neutral	-
Mode 1	Pass	AV	155.487k	35.30	55.69	-20.39	Neutral	-
Mode 1	Pass	QP	331.971k	44.91	59.40	-14.49	Neutral	-
Mode 1	Pass	AV	331.971k	40.74	49.40	-8.66	Neutral	-
Mode 1	Pass	QP	466.086k	25.70	56.59	-30.89	Neutral	-
Mode 1	Pass	AV	466.086k	18.97	46.59	-27.62	Neutral	-
Mode 1	Pass	QP	3.527M	31.71	56.00	-24.29	Neutral	-
Mode 1	Pass	AV	3.527M	25.25	46.00	-20.75	Neutral	-
Mode 1	Pass	QP	4.591M	30.12	56.00	-25.88	Neutral	-
Mode 1	Pass	AV	4.591M	26.26	46.00	-19.74	Neutral	-
Mode 1	Pass	QP	23.495M	45.41	60.00	-14.59	Neutral	-
Mode 1	Pass	AV	23.495M	41.71	50.00	-8.29	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	155.487k	50.10	65.69	-15.59	19.61	Line	-	30.49	9.65	0.03	9.93			
AV	155.487k	36.66	55.69	-19.03	19.61	Line	-	17.05	9.65	0.03	9.93			
QP	329.331k	44.12	59.46	-15.34	19.63	Line	-	24.49	9.64	0.04	9.95			
AV	329.331k	40.60	49.46	-8.86	19.63	Line	-	20.97	9.64	0.04	9.95			
QP	462.379k	31.29	56.65	-25.36	19.64	Line	-	11.65	9.64	0.04	9.96			
AV	462.379k	24.40	46.65	-22.25	19.64	Line	-	4.76	9.64	0.04	9.96			
QP	3.296M	32.03	56.00	-23.97	19.74	Line	-	12.29	9.69	0.12	9.93			
AV	3.296M	27.64	46.00	-18.36	19.74	Line	-	7.90	9.69	0.12	9.93			
QP	6.789M	31.85	60.00	-28.15	19.87	Line	-	11.98	9.76	0.16	9.95			
AV	6.789M	27.95	50.00	-22.05	19.87	Line	-	8.08	9.76	0.16	9.95			
QP	23.401M	44.03	60.00	-15.97	20.06	Line	-	23.97	9.79	0.30	9.97			
AV	23.401M	40.07	50.00	-9.93	20.06	Line	-	20.01	9.79	0.30	9.97			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	155.487k	50.10	65.69	-15.59	19.59	Neutral	-	30.51	9.63	0.03	9.93			
AV	155.487k	35.30	55.69	-20.39	19.59	Neutral	-	15.71	9.63	0.03	9.93			
QP	331.971k	44.91	59.40	-14.49	19.62	Neutral	-	25.29	9.63	0.04	9.95			
AV	331.971k	40.74	49.40	-8.66	19.62	Neutral	-	21.12	9.63	0.04	9.95			
QP	466.086k	25.70	56.59	-30.89	19.63	Neutral	-	6.07	9.63	0.04	9.96			
AV	466.086k	18.97	46.59	-27.62	19.63	Neutral	-	-0.66	9.63	0.04	9.96			
QP	3.527M	31.71	56.00	-24.29	19.73	Neutral	-	11.98	9.68	0.12	9.93			
AV	3.527M	25.25	46.00	-20.75	19.73	Neutral	-	5.52	9.68	0.12	9.93			
QP	4.591M	30.12	56.00	-25.88	19.77	Neutral	-	10.35	9.70	0.14	9.93			
AV	4.591M	26.26	46.00	-19.74	19.77	Neutral	-	6.49	9.70	0.14	9.93			
QP	23.495M	45.41	60.00	-14.59	20.28	Neutral	-	25.13	10.01	0.30	9.97			
AV	23.495M	41.71	50.00	-8.29	20.28	Neutral	-	21.43	10.01	0.30	9.97			

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	8.025M	12.939M	12M9G1D	7.075M	12.849M
802.11g_Nss1,(6Mbps)_4TX	16.3M	16.646M	16M6D1D	15.7M	16.448M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.925M	19.015M	19M0D1D	17.95M	18.891M
802.11ax HEW40_Nss1,(MCS0)_4TX	38.05M	37.981M	38M0D1D	36.65M	37.781M

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

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	7.1M	12.879M	7.55M	12.879M	8.025M	12.909M	7.575M	12.894M
2437MHz	Pass	500k	7.575M	12.849M	7.525M	12.864M	7.55M	12.864M	8.025M	12.864M
2462MHz	Pass	500k	7.1M	12.909M	7.075M	12.924M	7.1M	12.939M	7.55M	12.924M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	15.9M	16.448M	16M	16.47M	16.3M	16.536M	16.3M	16.448M
2437MHz	Pass	500k	15.9M	16.58M	16.075M	16.58M	16.3M	16.646M	16.3M	16.624M
2462MHz	Pass	500k	15.975M	16.448M	16M	16.514M	15.7M	16.492M	16.025M	16.492M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.925M	18.966M	18.9M	18.966M	18.825M	18.966M	18.775M	18.916M
2437MHz	Pass	500k	18.8M	19.015M	18.85M	18.966M	18.7M	18.991M	18.7M	18.966M
2462MHz	Pass	500k	18.725M	18.941M	17.95M	18.916M	18.6M	18.891M	18.775M	18.891M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37M	37.781M	36.65M	37.781M	37.3M	37.831M	37.35M	37.781M
2437MHz	Pass	500k	37.55M	37.931M	37.75M	37.831M	37.7M	37.981M	37.45M	37.931M
2452MHz	Pass	500k	37.2M	37.831M	37.55M	37.931M	38.05M	37.881M	37.4M	37.831M

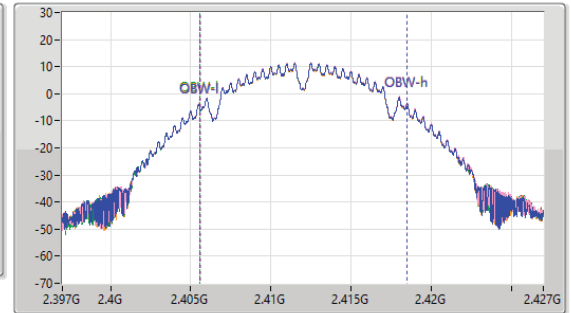
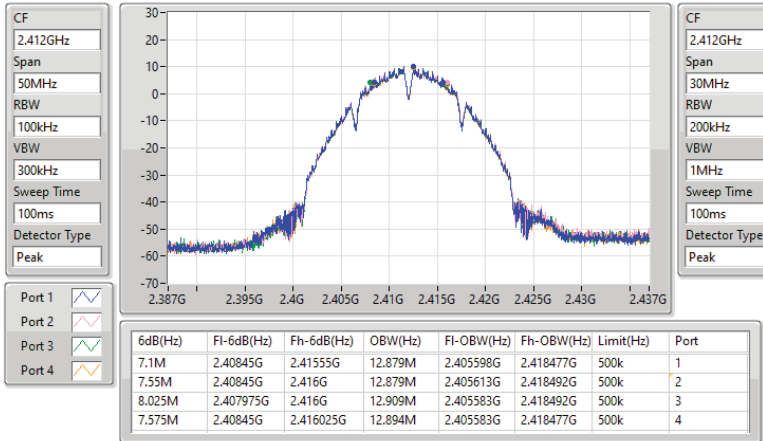
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

EBW

2412MHz

17/05/2023

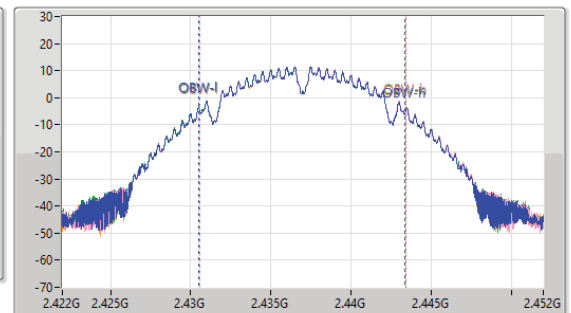
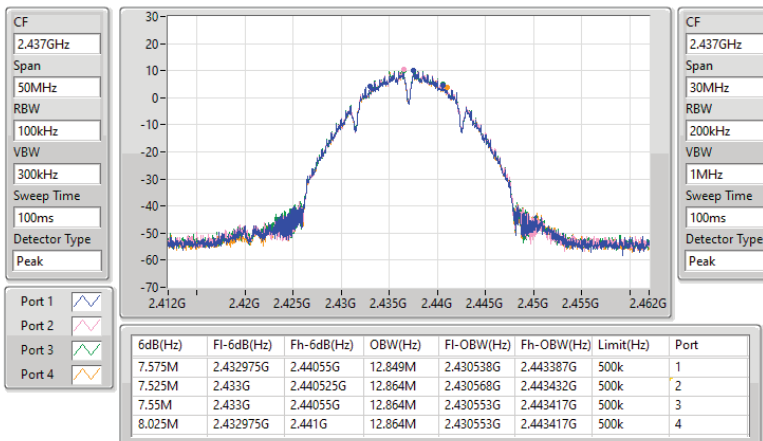


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

EBW

2437MHz

18/05/2023

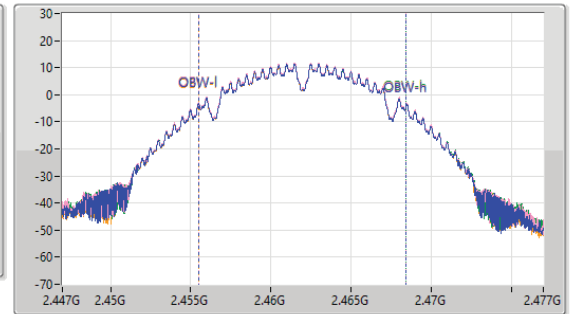
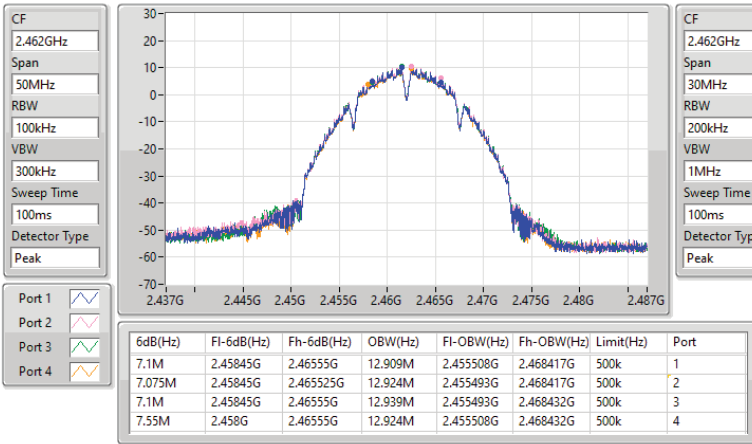


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

EBW

2462MHz

18/05/2023

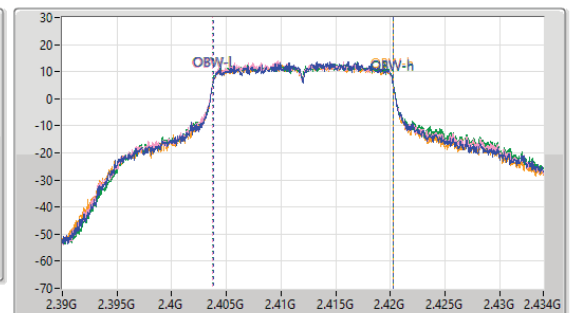
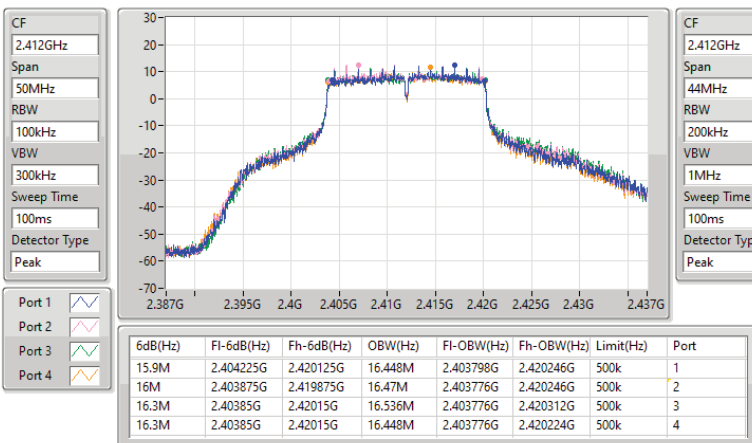


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

EBW

2412MHz

22/05/2023

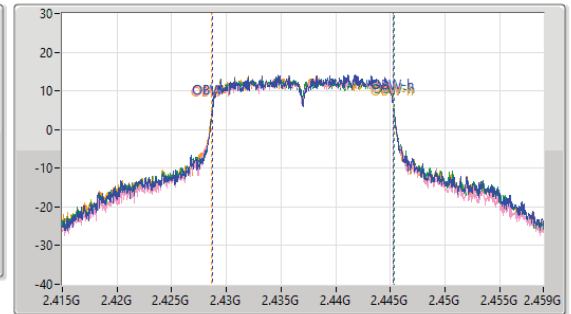
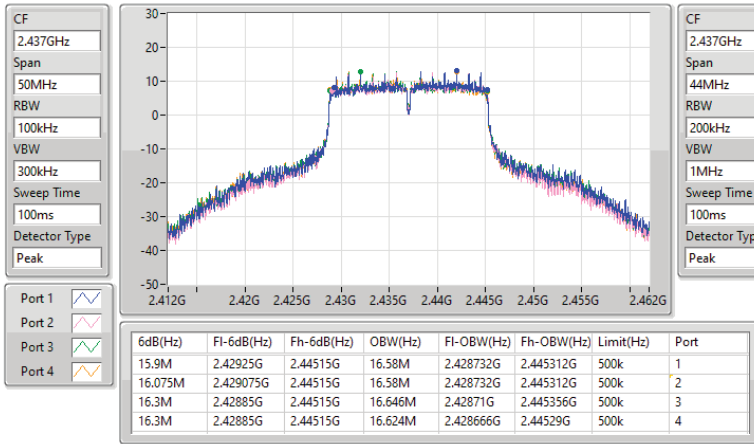


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

EBW

2437MHz

20/03/2023

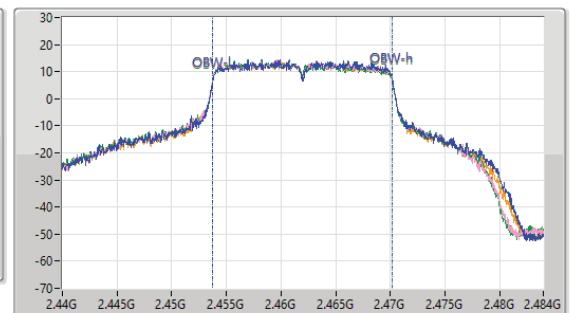
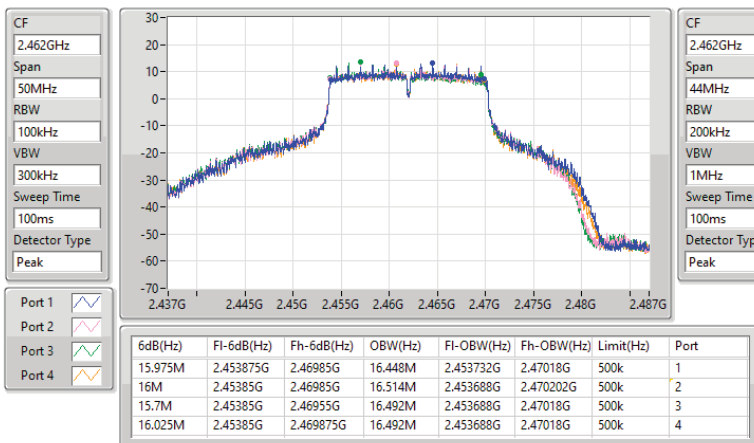


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

EBW

2462MHz

20/03/2023



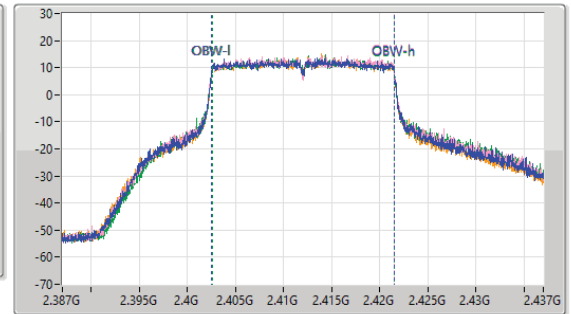
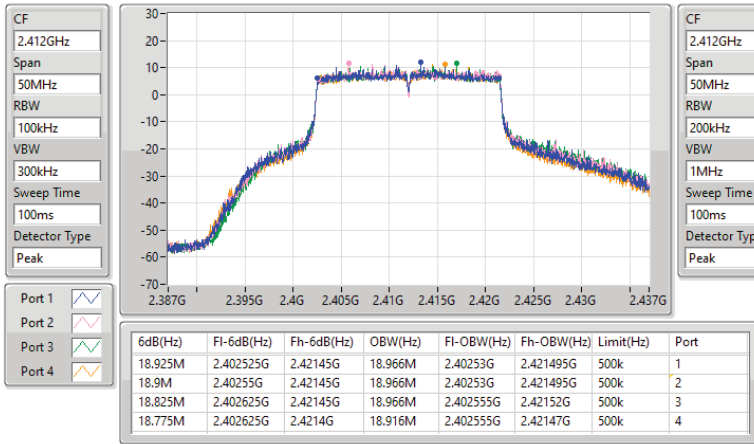


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

2412MHz

22/05/2023

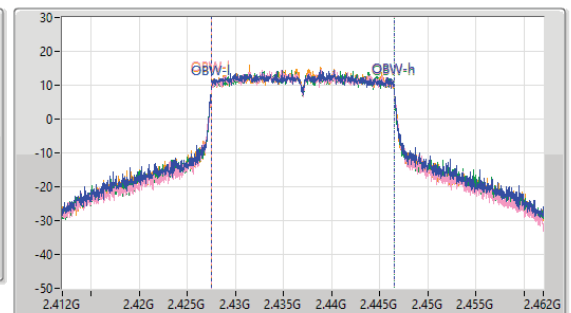
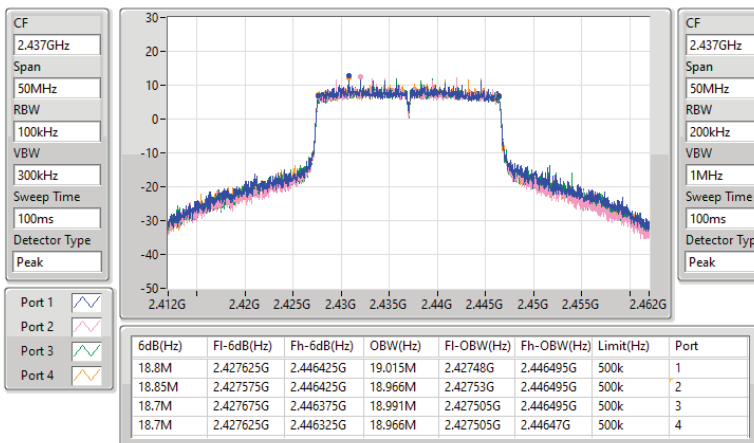


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

2437MHz

20/03/2023



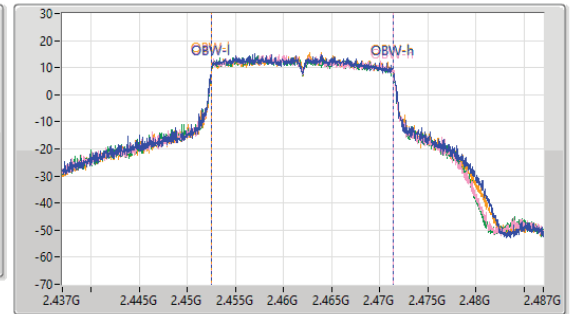
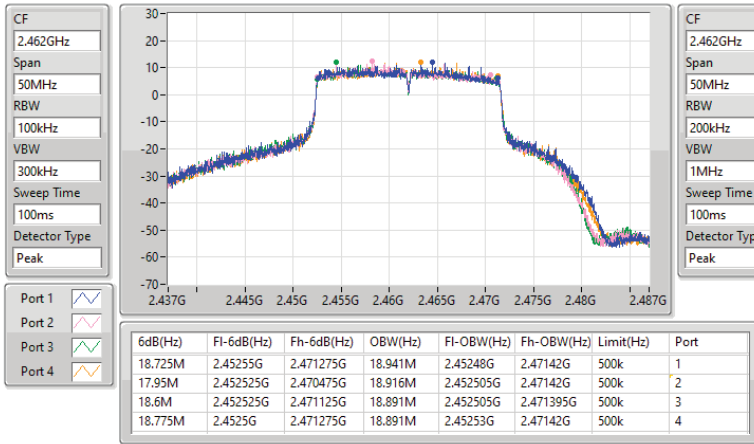


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

2462MHz

20/03/2023

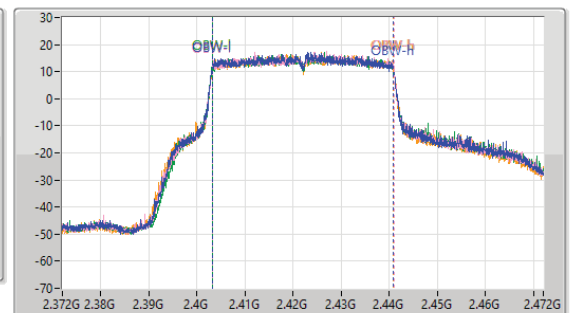
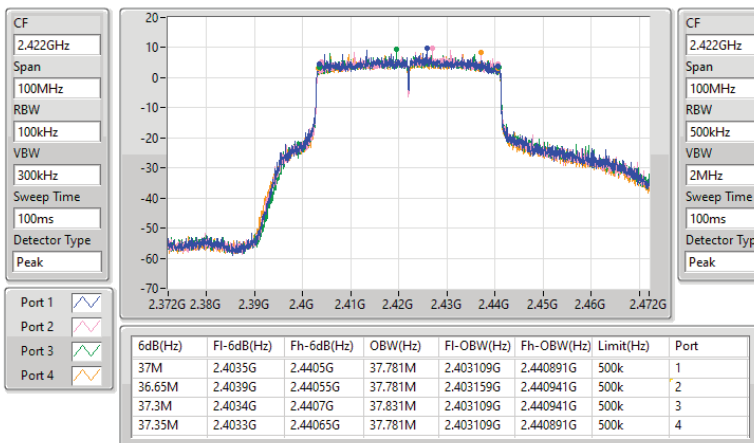


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

2422MHz

25/05/2023

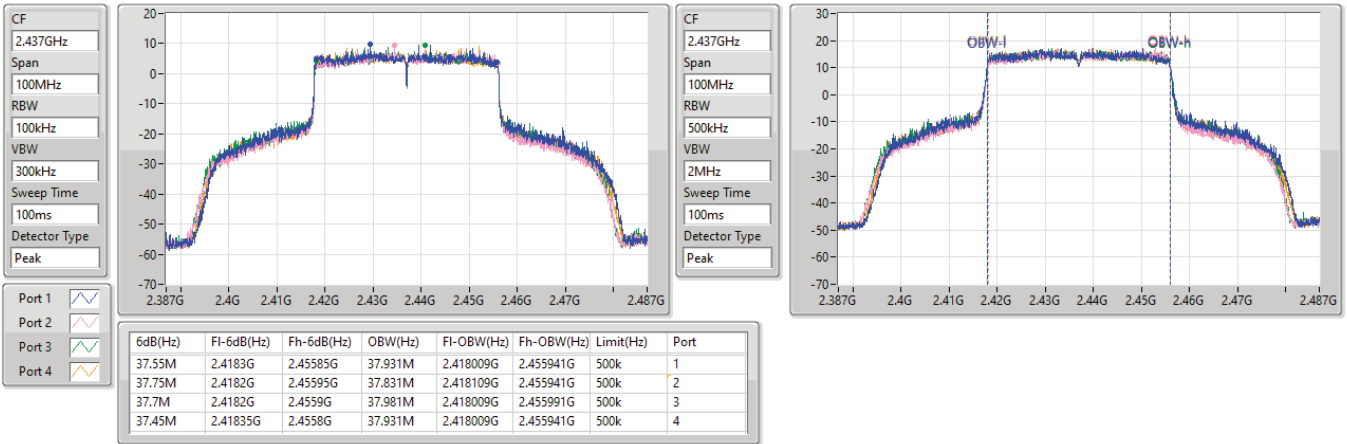


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

2437MHz

20/03/2023

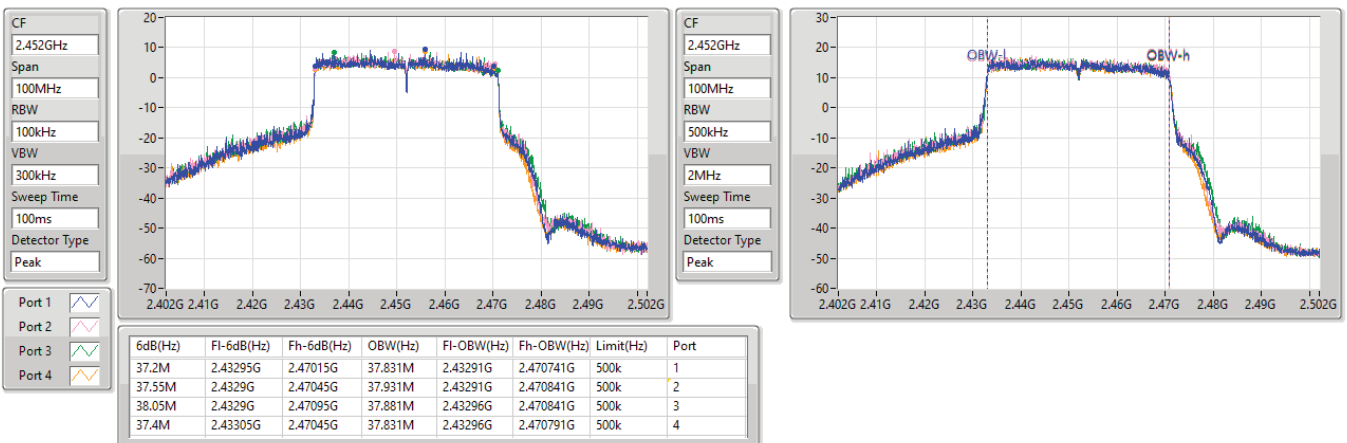


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

2452MHz

25/05/2023



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	19.125M	19.122M	19M1D1D	18.25M	18.877M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	38.25M	38.148M	38M1D1D	29.5M	37.324M

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

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.725M	18.952M	18.85M	18.908M	18.4M	18.877M	18.9M	18.915M
2437MHz	Pass	500k	19.1M	19.053M	19.125M	18.976M	18.975M	19.08M	19.075M	18.913M
2462MHz	Pass	500k	19.05M	18.953M	19.1M	18.964M	18.25M	19.122M	19.025M	18.942M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	29.5M	37.671M	30.65M	37.682M	31.2M	37.669M	36.45M	37.652M
2437MHz	Pass	500k	37.45M	38.148M	36.35M	37.794M	38.25M	37.852M	34.2M	37.982M
2452MHz	Pass	500k	36M	37.324M	36.6M	37.902M	31.4M	38.064M	38.05M	37.707M

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

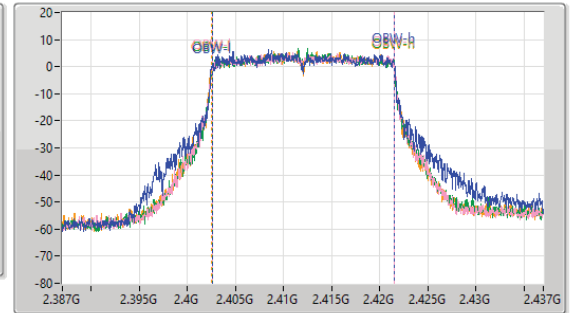
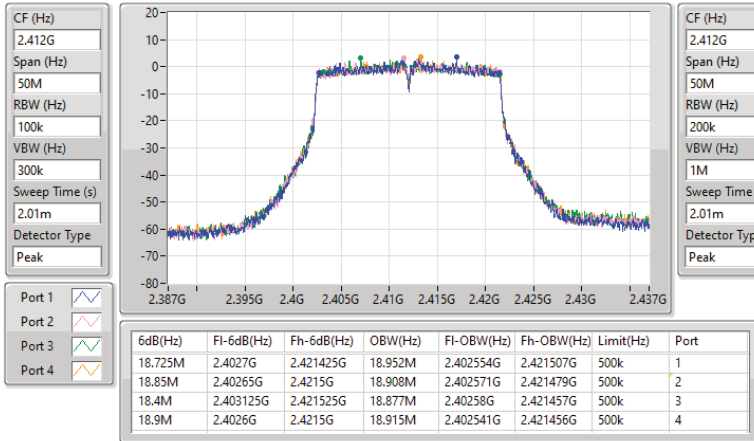


2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

2412MHz

27/06/2023

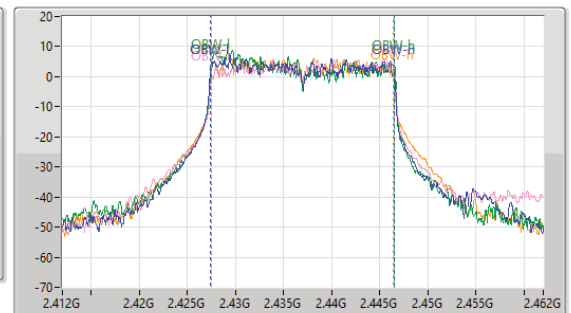
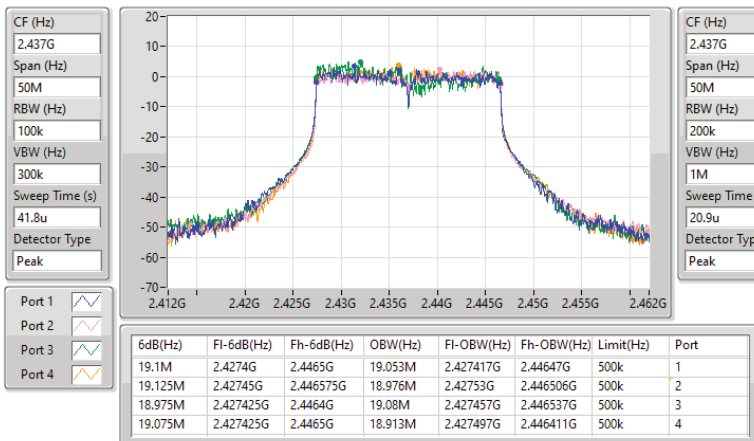


2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

2437MHz

27/06/2023



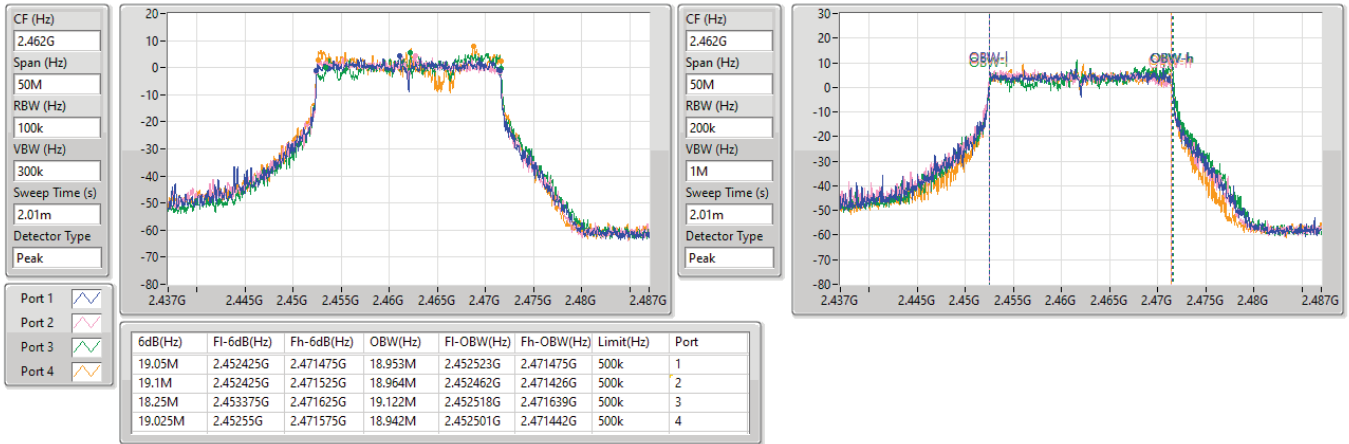


2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

2462MHz

27/06/2023

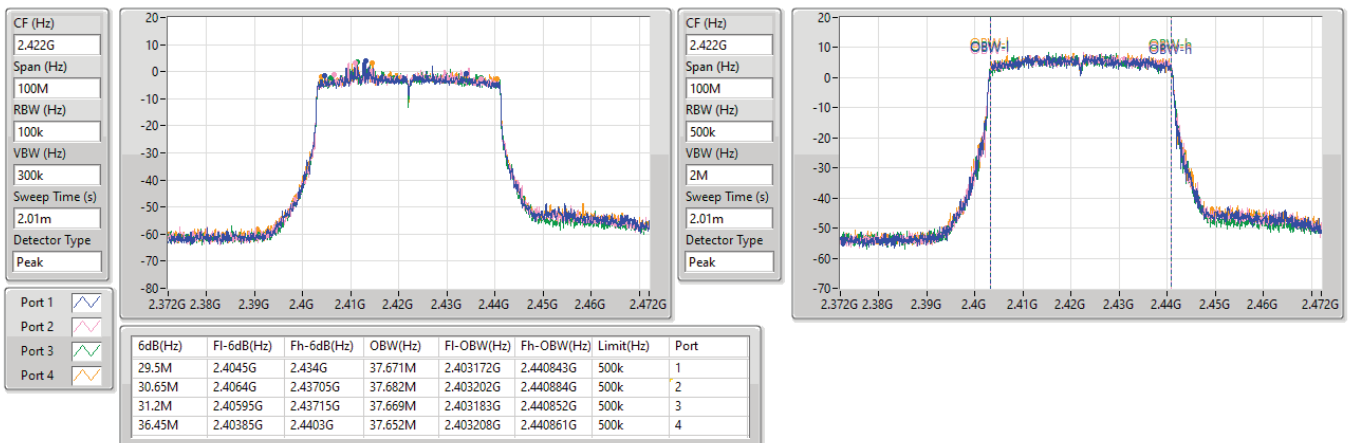


2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

2422MHz

27/06/2023

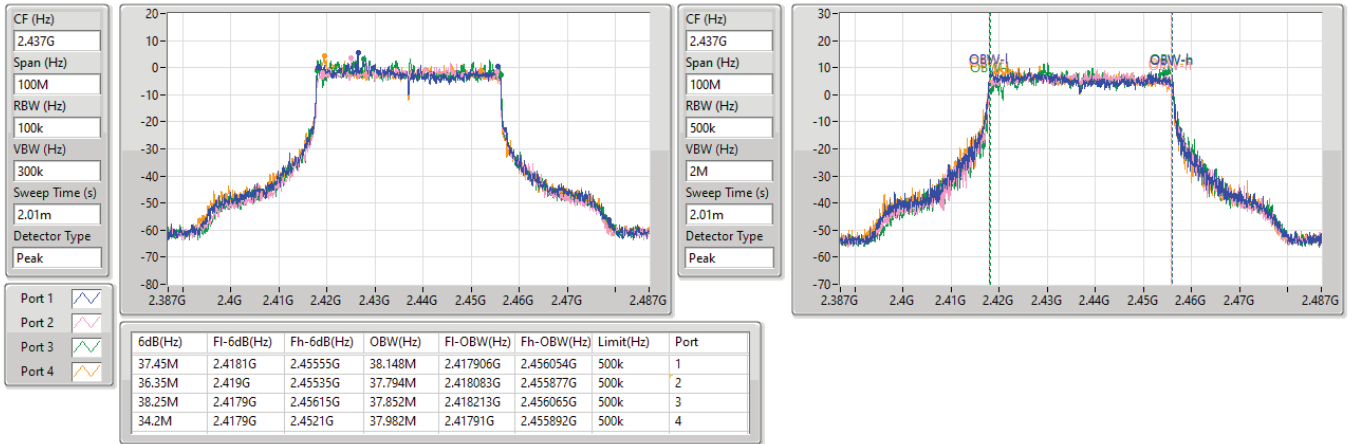


2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

2437MHz

27/06/2023

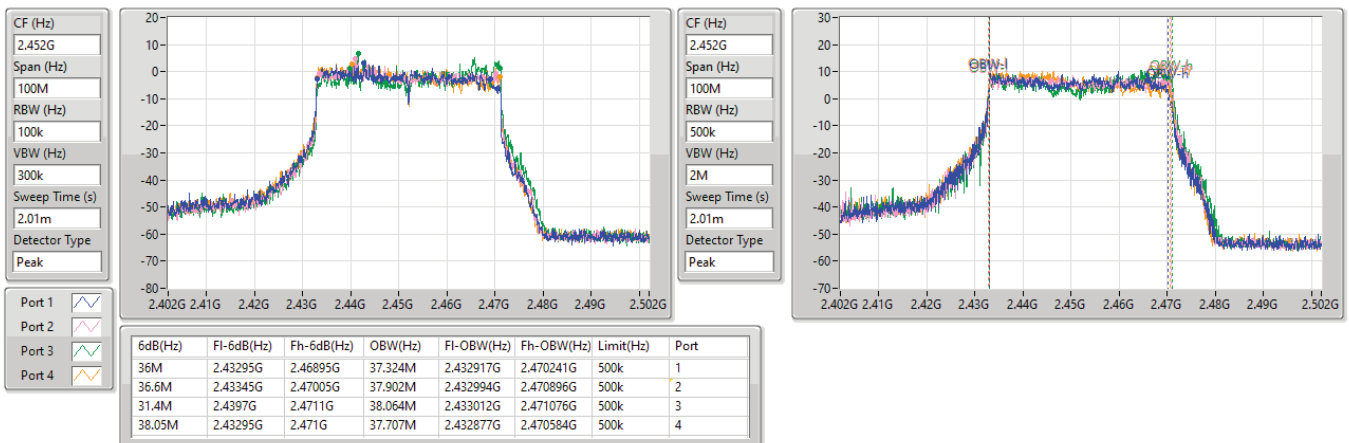


2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

2452MHz

27/06/2023





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	25.47	0.35237
802.11g_Nss1,(6Mbps)_4TX	29.68	0.92897
802.11ax HEW20_Nss1,(MCS0)_4TX	29.54	0.89950
802.11ax HEW40_Nss1,(MCS0)_4TX	29.68	0.92897



Average Power_Non-Beamforming

Appendix C.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.80	18.76	18.93	18.84	18.55	24.79	30.00
2417MHz	Pass	5.80	18.98	19.24	19.46	18.87	25.16	30.00
2437MHz	Pass	5.80	19.16	19.34	19.40	19.36	25.34	30.00
2462MHz	Pass	5.80	19.41	19.73	19.45	19.19	25.47	30.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.80	23.32	23.64	23.44	23.19	29.42	30.00
2417MHz	Pass	5.80	23.48	23.73	23.60	23.35	29.56	30.00
2437MHz	Pass	5.80	23.69	23.54	23.63	23.57	29.63	30.00
2462MHz	Pass	5.80	23.70	23.74	23.64	23.55	29.68	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.80	23.05	23.34	23.17	22.87	29.13	30.00
2417MHz	Pass	5.80	23.25	23.60	23.29	23.10	29.33	30.00
2437MHz	Pass	5.80	23.44	23.23	23.32	23.25	29.33	30.00
2457MHz	Pass	5.80	23.51	23.55	23.42	23.60	29.54	30.00
2462MHz	Pass	5.80	23.46	23.40	23.28	23.34	29.39	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	5.80	23.60	23.66	23.47	23.22	29.51	30.00
2427MHz	Pass	5.80	23.77	23.33	23.67	23.79	29.66	30.00
2437MHz	Pass	5.80	23.65	23.51	23.73	23.75	29.68	30.00
2447MHz	Pass	5.80	23.38	23.18	23.34	23.22	29.30	30.00
2452MHz	Pass	5.80	23.53	23.74	23.64	23.29	29.57	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.29	0.21330
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.65	0.23174

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	11.82	16.36	16.87	16.88	16.84	22.76	24.18
2417MHz	Pass	11.82	16.45	16.84	16.72	16.81	22.73	24.18
2437MHz	Pass	11.82	17.20	17.26	16.64	17.90	23.29	24.18
2457MHz	Pass	11.82	16.61	16.93	16.91	16.61	22.79	24.18
2462MHz	Pass	11.82	17.32	17.63	17.10	16.76	23.23	24.18
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	11.82	17.19	17.49	17.58	17.71	23.52	24.18
2427MHz	Pass	11.82	17.26	17.60	17.97	17.67	23.65	24.18
2437MHz	Pass	11.82	17.44	17.38	16.88	18.23	23.53	24.18
2447MHz	Pass	11.82	17.36	18.05	16.95	17.81	23.58	24.18
2452MHz	Pass	11.82	16.70	17.42	16.37	17.37	23.01	24.18

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_4TX	0.30
802.11g_Nss1,(6Mbps)_4TX	1.01
802.11ax HEW20_Nss1,(MCS0)_4TX	1.09
802.11ax HEW40_Nss1,(MCS0)_4TX	-1.69

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	11.82	-5.31	-5.03	-5.23	-5.71	0.10	2.18
2437MHz	Pass	11.82	-5.12	-4.61	-5.11	-5.03	0.21	2.18
2462MHz	Pass	11.82	-5.34	-4.88	-5.65	-5.62	0.30	2.18
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	11.82	-4.22	-3.82	-4.60	-4.76	0.71	2.18
2437MHz	Pass	11.82	-3.80	-3.39	-3.52	-4.00	0.91	2.18
2462MHz	Pass	11.82	-4.94	-3.55	-4.36	-4.37	1.01	2.18
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	11.82	-4.20	-4.69	-3.58	-2.80	1.09	2.18
2437MHz	Pass	11.82	-3.57	-4.57	-4.13	-3.69	-0.29	2.18
2462MHz	Pass	11.82	-3.88	-3.35	-4.05	-4.03	0.86	2.18
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	11.82	-5.04	-6.08	-6.47	-5.72	-2.14	2.18
2437MHz	Pass	11.82	-5.11	-4.42	-5.58	-5.86	-1.69	2.18
2452MHz	Pass	11.82	-5.10	-5.63	-5.88	-6.13	-2.48	2.18

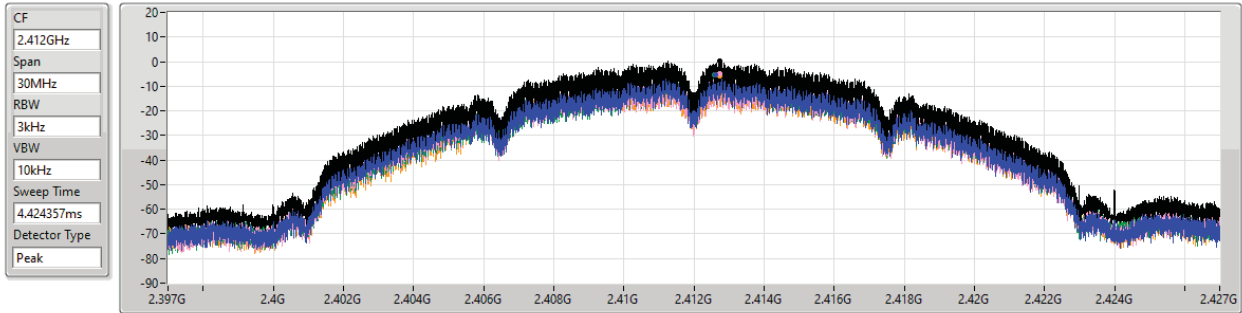
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

PSD

2412MHz

17/05/2023



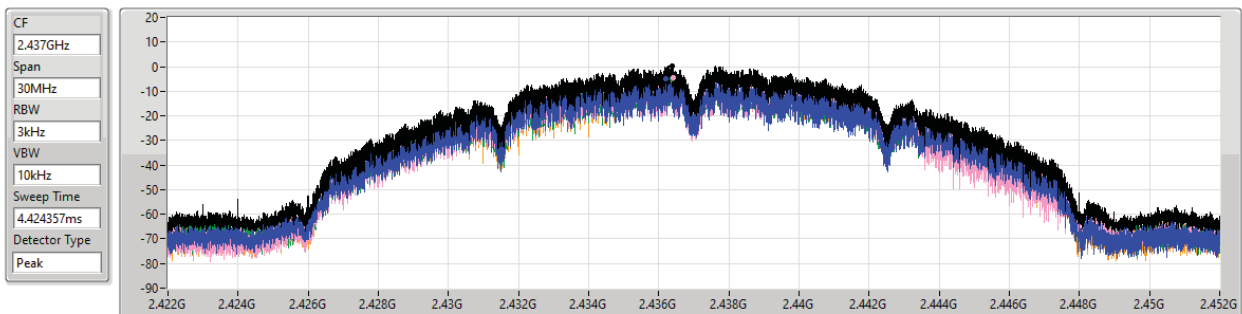
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
0.10	0.10	-5.31	-5.03	-5.23	-5.71

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

PSD

2437MHz

18/05/2023



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
0.21	0.21	-5.12	-4.61	-5.11	-5.03

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

PSD

2462MHz

18/05/2023

CF
2.462GHz

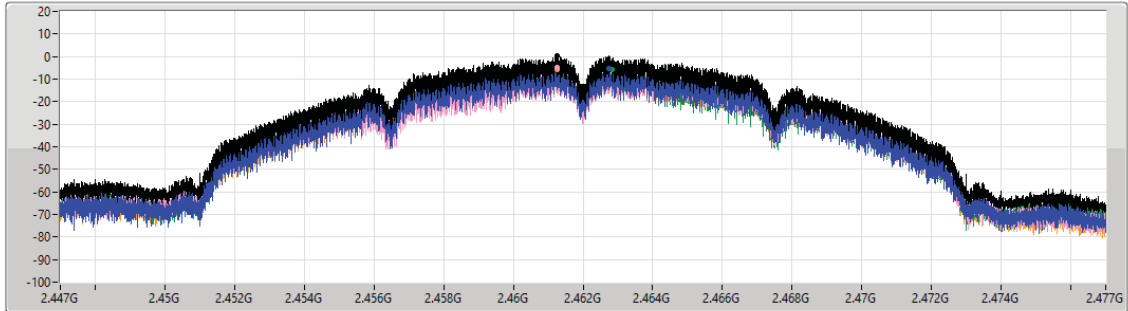
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.30	0.30	-5.34	-4.88	-5.65	-5.62

Sum

Port 1

Port 2

Port 3

Port 4

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

PSD

2412MHz

22/05/2023

CF
2.412GHz

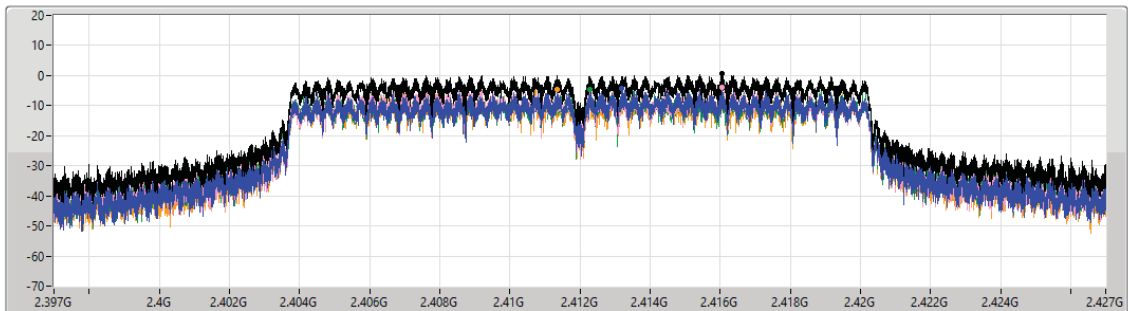
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.71	0.71	-4.22	-3.82	-4.60	-4.76

Sum

Port 1

Port 2

Port 3

Port 4

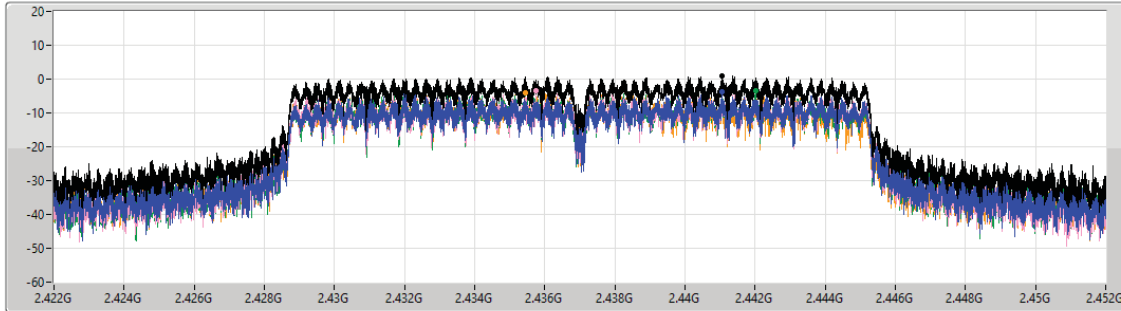
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

PSD

2437MHz

20/03/2023

CF
2.437GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
4.424357ms
Detector Type
Peak



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.91	0.91	-3.80	-3.39	-3.52	-4.00

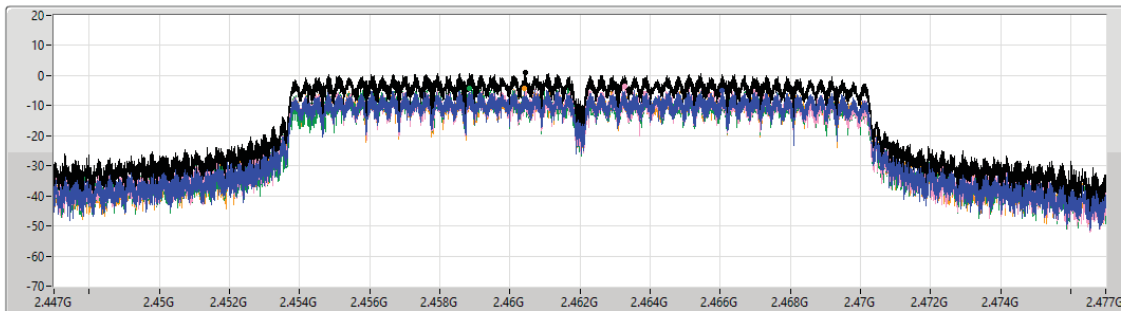
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

PSD

2462MHz

20/03/2023

CF
2.462GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
4.424357ms
Detector Type
Peak



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
1.01	1.01	-4.94	-3.55	-4.36	-4.37

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

2412MHz

22/05/2023

CF
2.412GHz

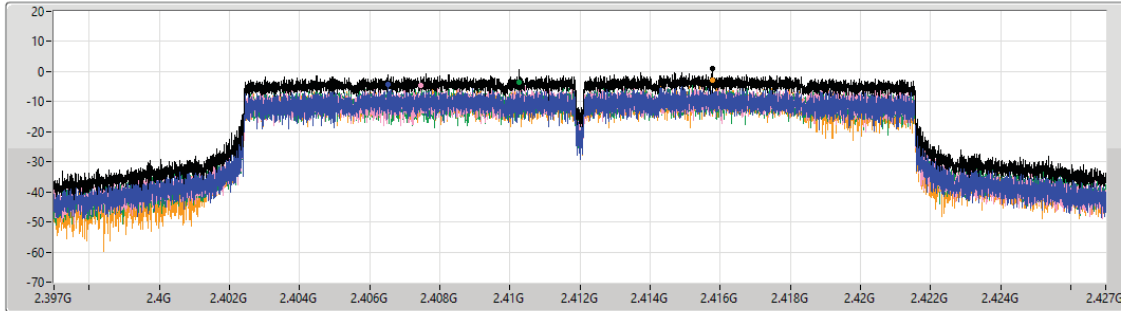
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum

Port 1

Port 2

Port 3

Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
1.09	1.09	-4.20	-4.69	-3.58	-2.80

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

2437MHz

20/03/2023

CF
2.437GHz

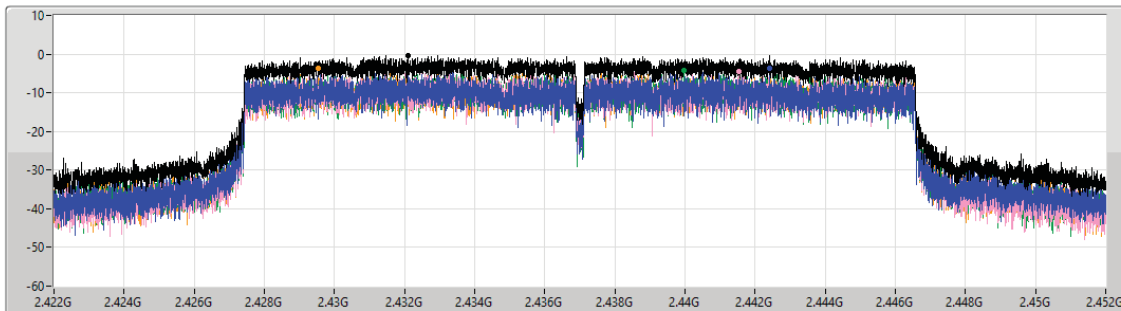
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum

Port 1

Port 2

Port 3

Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-0.29	-0.29	-3.57	-4.57	-4.13	-3.69

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

2462MHz

20/03/2023

CF
2.462GHz

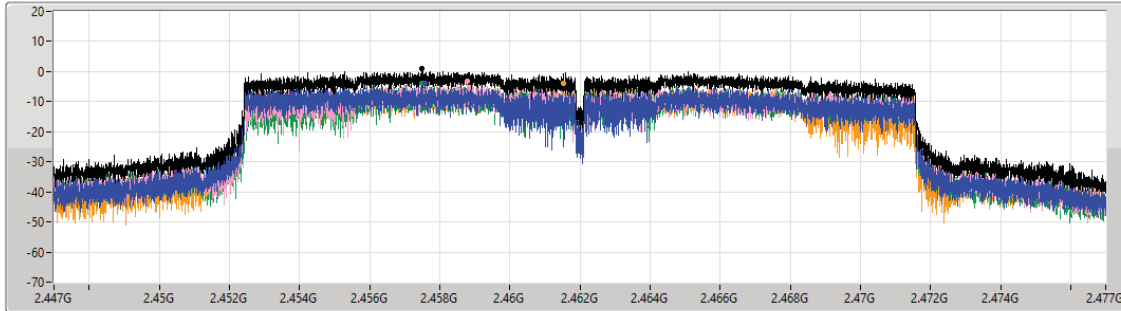
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.86	0.86	-3.88	-3.35	-4.05	-4.03

Sum

Port 1

Port 2

Port 3

Port 4

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

2422MHz

25/05/2023

CF
2.422GHz

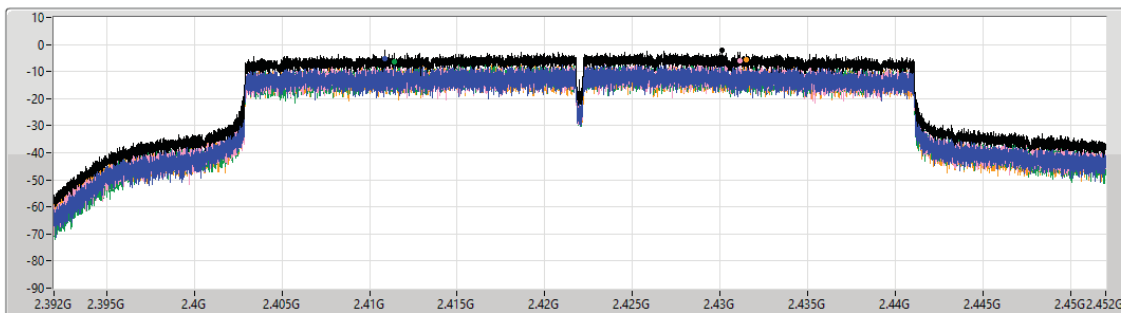
Span
60MHz

RBW
3kHz

VBW
10kHz

Sweep Time
8.848933ms

Detector Type
Peak



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.14	-2.14	-5.04	-6.08	-6.47	-5.72

Sum

Port 1

Port 2

Port 3

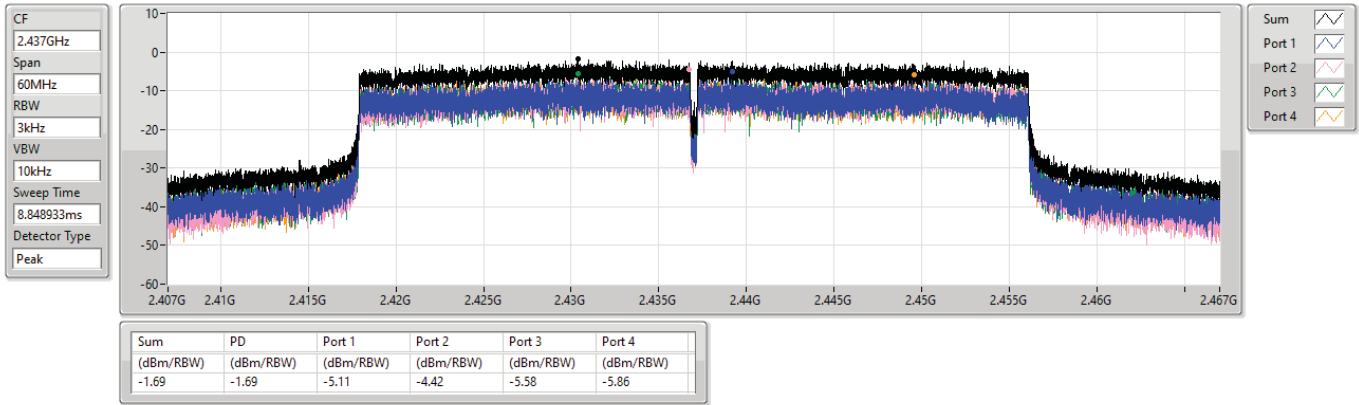
Port 4

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

2437MHz

20/03/2023



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

2452MHz

25/05/2023





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-1.91
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-2.43

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	11.82	-11.90	-7.58	-11.34	-11.48	-6.25	2.18
2437MHz	Pass	11.82	-8.39	-4.33	-6.26	-7.97	-3.16	2.18
2462MHz	Pass	11.82	-10.20	-4.01	-4.05	-2.86	-1.91	2.18
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	11.82	-11.60	-6.98	-13.71	-9.62	-5.42	2.18
2437MHz	Pass	11.82	-9.37	-3.89	-9.92	-9.73	-2.43	2.18
2452MHz	Pass	11.82	-7.58	-4.71	-7.76	-9.88	-3.02	2.18

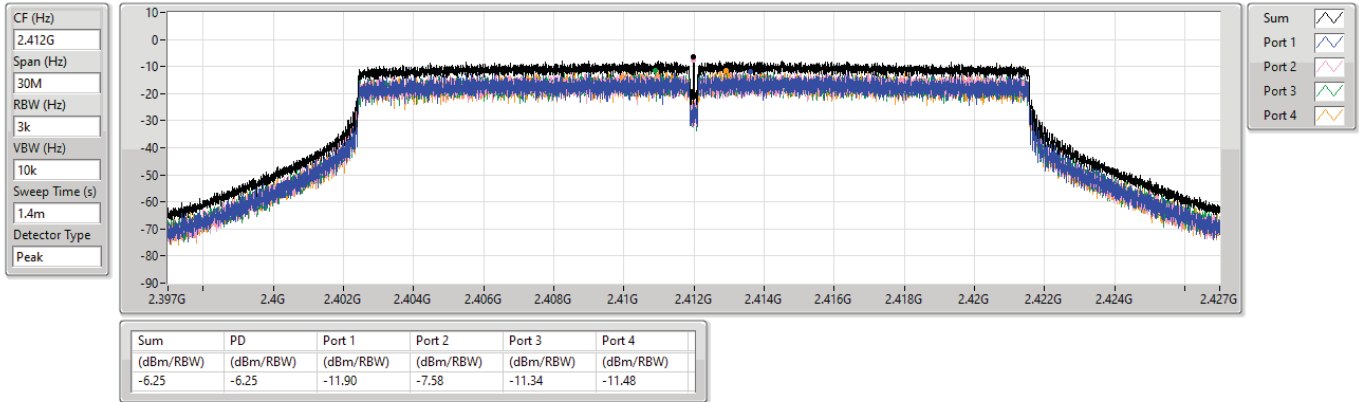
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

2412MHz

27/06/2023

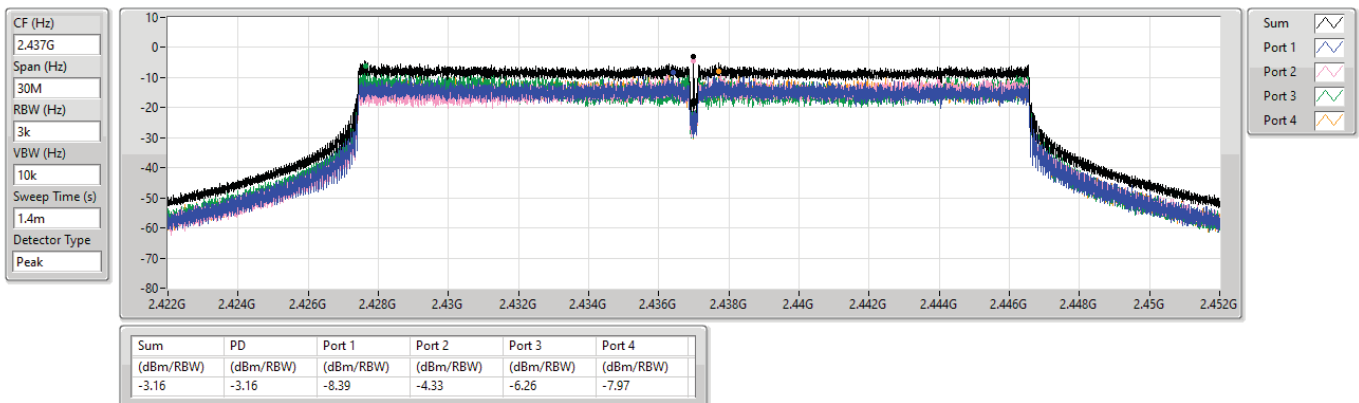


2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

2437MHz

27/06/2023

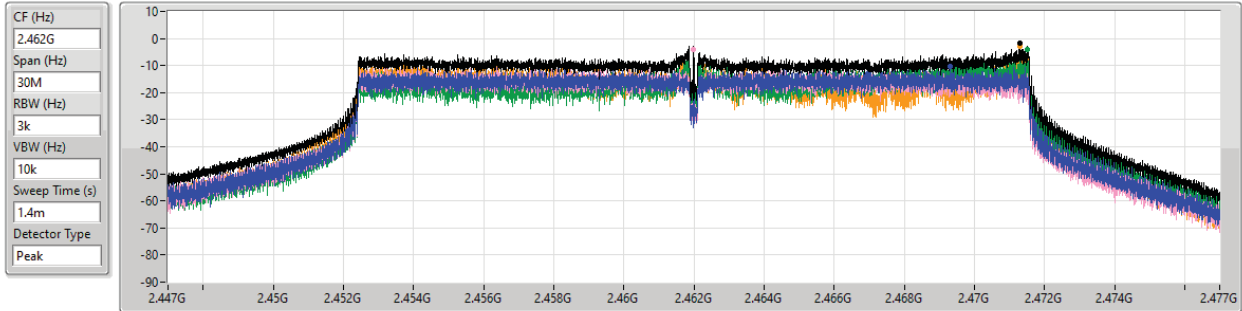


2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

2462MHz

27/06/2023



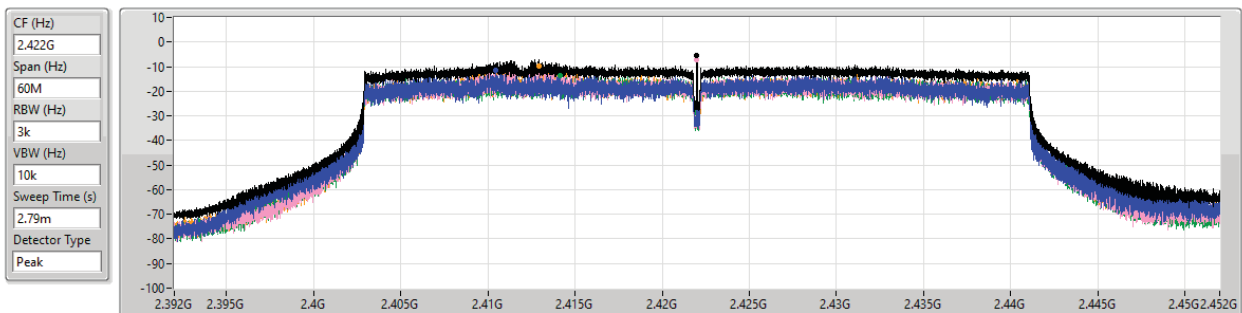
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-1.91	-1.91	-10.20	-4.01	-4.05	-2.86

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

2422MHz

27/06/2023



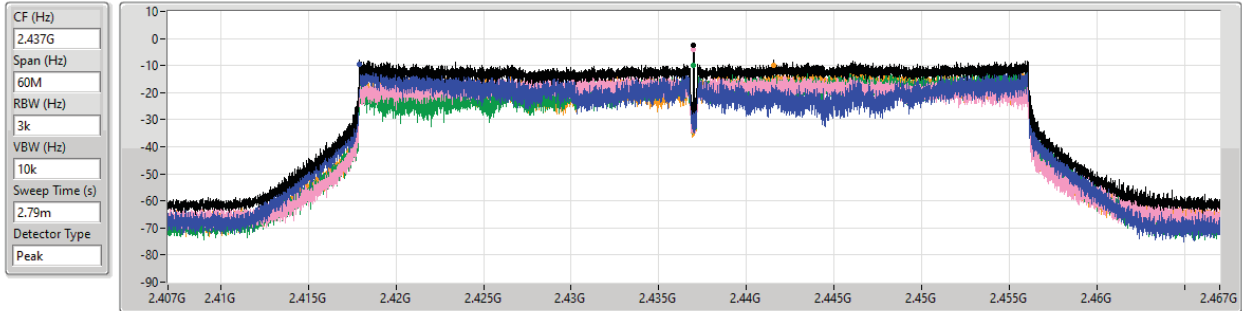
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-5.42	-5.42	-11.60	-6.98	-13.71	-9.62

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

2437MHz

27/06/2023

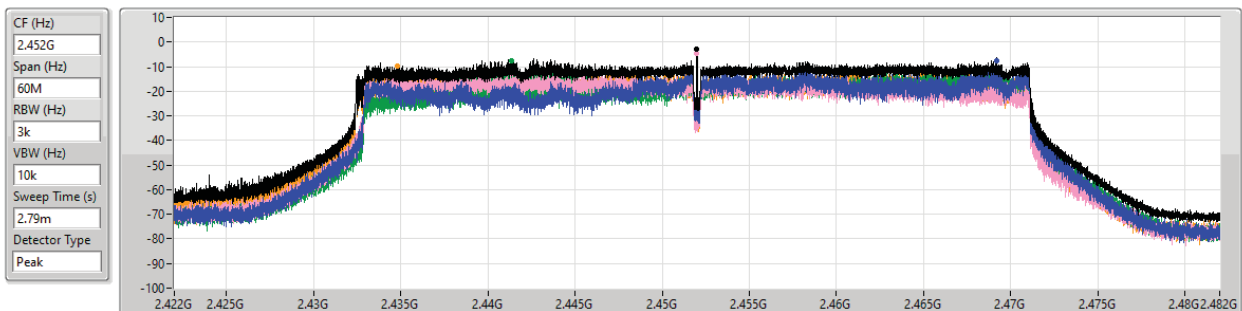


2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

2452MHz

27/06/2023



**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)_4TX	Pass	2.46263G	10.42	-19.58	1.81012G	-54.92	2.39992G	-42.12	2.4G	-41.85	2.52174G	-53.81	24.62352G	-42.05	3
802.11g_Nss1,(6Mbps)_4TX	Pass	2.46446G	14.18	-15.82	1.84973G	-55.12	2.39968G	-17.11	2.4G	-18.43	2.51958G	-52.92	21.84767G	-41.65	3
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	2.46697G	13.50	-16.50	2.17826G	-55.03	2.39968G	-17.50	2.4G	-16.72	2.5047G	-52.96	24.4999G	-40.97	3
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	2.4319G	10.00	-20.00	1.74178G	-54.97	2.39952G	-21.84	2.4G	-26.82	2.55118G	-53.31	17.4417G	-42.08	1



Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.46263G	10.42	-19.58	1.83109G	-55.14	2.39944G	-42.02	2.4G	-42.27	2.5195G	-53.57	24.53642G	-41.86	1
2412MHz	Pass	2.46263G	10.42	-19.58	2.16079G	-54.27	2.39936G	-42.87	2.4G	-42.57	2.50606G	-53.22	24.30323G	-41.67	2
2412MHz	Pass	2.46263G	10.42	-19.58	1.81012G	-54.92	2.39992G	-42.12	2.4G	-41.85	2.52174G	-53.81	24.62352G	-42.05	3
2412MHz	Pass	2.46263G	10.42	-19.58	2.30874G	-53.78	2.3996G	-43.18	2.4G	-41.85	2.51486G	-53.96	24.58138G	-41.90	4
2437MHz	Pass	2.46263G	10.42	-19.58	2.04312G	-55.87	2.39952G	-52.99	2.4G	-53.34	2.5027G	-54.10	15.17496G	-41.77	1
2437MHz	Pass	2.46263G	10.42	-19.58	1.97206G	-54.64	2.39104G	-53.01	2.4G	-55.24	2.52294G	-53.55	24.07846G	-42.29	2
2437MHz	Pass	2.46263G	10.42	-19.58	2.30874G	-54.73	2.3996G	-53.11	2.4G	-53.61	2.51614G	-53.78	5.2263G	-29.66	3
2437MHz	Pass	2.46263G	10.42	-19.58	2.13865G	-54.17	2.3988G	-52.86	2.4G	-52.32	2.51094G	-53.91	24.49428G	-42.20	4
2462MHz	Pass	2.46263G	10.42	-19.58	2.11535G	-55.50	2.39752G	-50.75	2.4G	-52.37	2.51798G	-53.37	15.1581G	-41.56	1
2462MHz	Pass	2.46263G	10.42	-19.58	2.15729G	-54.75	2.39888G	-51.91	2.4G	-50.76	2.52262G	-53.42	17.14727G	-41.50	2
2462MHz	Pass	2.46263G	10.42	-19.58	2.07341G	-55.04	2.39912G	-52.67	2.4G	-53.24	2.51238G	-53.80	24.83985G	-41.87	3
2462MHz	Pass	2.46263G	10.42	-19.58	1.79381G	-54.74	2.3996G	-52.08	2.4G	-54.00	2.5147G	-52.83	23.17097G	-42.03	4
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.46446G	14.18	-15.82	1.97439G	-55.30	2.39928G	-18.82	2.4G	-17.92	2.52046G	-53.69	24.16837G	-41.00	1
2412MHz	Pass	2.46446G	14.18	-15.82	2.09788G	-54.56	2.39976G	-18.22	2.4G	-19.49	2.50046G	-53.02	17.60804G	-41.44	2
2412MHz	Pass	2.46446G	14.18	-15.82	1.84973G	-55.12	2.39968G	-17.11	2.4G	-18.43	2.51958G	-52.92	21.84767G	-41.65	3
2412MHz	Pass	2.46446G	14.18	-15.82	2.12584G	-55.25	2.3992G	-19.38	2.4G	-17.95	2.5163G	-52.85	14.81253G	-41.62	4
2437MHz	Pass	2.46446G	14.18	-15.82	2.19341G	-54.27	2.39984G	-42.08	2.4G	-43.24	2.50494G	-53.23	24.17961G	-41.71	1
2437MHz	Pass	2.46446G	14.18	-15.82	2.13516G	-55.45	2.39992G	-43.00	2.4G	-45.00	2.51614G	-52.28	24.48866G	-41.96	2
2437MHz	Pass	2.46446G	14.18	-15.82	2.17127G	-54.31	2.3996G	-42.81	2.4G	-42.83	2.51326G	-52.74	24.92414G	-41.69	3
2437MHz	Pass	2.46446G	14.18	-15.82	2.30758G	-54.77	2.39992G	-41.52	2.4G	-43.34	2.50894G	-52.65	17.36361G	-41.00	4
2462MHz	Pass	2.46446G	14.18	-15.82	2.07458G	-55.18	2.39944G	-48.90	2.4G	-48.61	2.5179G	-53.19	24.53923G	-41.62	1
2462MHz	Pass	2.46446G	14.18	-15.82	1.81129G	-54.95	2.39944G	-48.95	2.4G	-50.08	2.50182G	-52.90	21.76619G	-41.62	2
2462MHz	Pass	2.46446G	14.18	-15.82	2.30175G	-55.12	2.39856G	-46.87	2.4G	-49.40	2.51254G	-53.33	16.2145G	-41.64	3
2462MHz	Pass	2.46446G	14.18	-15.82	2.10487G	-55.32	2.39888G	-48.30	2.4G	-49.35	2.5063G	-53.44	24.56171G	-41.51	4
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.46697G	13.50	-16.50	1.97439G	-55.32	2.39984G	-19.18	2.4G	-18.62	2.5115G	-53.42	24.47461G	-42.08	1
2412MHz	Pass	2.46697G	13.50	-16.50	2.30641G	-54.11	2.39976G	-18.11	2.4G	-18.93	2.5047G	-53.36	24.80614G	-41.76	2
2412MHz	Pass	2.46697G	13.50	-16.50	2.17826G	-55.03	2.39968G	-17.50	2.4G	-16.72	2.5047G	-52.96	24.4999G	-40.97	3
2412MHz	Pass	2.46697G	13.50	-16.50	2.0373G	-54.51	2.39976G	-18.81	2.4G	-19.99	2.51598G	-52.87	24.4409G	-41.45	4
2437MHz	Pass	2.46697G	13.50	-16.50	2.16428G	-55.39	2.39872G	-41.01	2.4G	-41.99	2.50094G	-53.08	21.86172G	-41.38	1
2437MHz	Pass	2.46697G	13.50	-16.50	1.99419G	-55.78	2.39936G	-41.25	2.4G	-43.15	2.51846G	-53.50	17.54342G	-42.00	2
2437MHz	Pass	2.46697G	13.50	-16.50	2.09788G	-55.20	2.4G	-41.72	2.4G	-43.39	2.5047G	-53.39	24.23018G	-40.98	3
2437MHz	Pass	2.46697G	13.50	-16.50	2.30991G	-55.02	2.39992G	-41.42	2.4G	-41.48	2.50398G	-52.71	24.90447G	-41.51	4
2462MHz	Pass	2.46697G	13.50	-16.50	2.30874G	-55.42	2.39944G	-46.98	2.4G	-49.70	2.51262G	-53.57	24.62352G	-41.67	1
2462MHz	Pass	2.46697G	13.50	-16.50	2.10603G	-54.75	2.39792G	-47.89	2.4G	-48.76	2.52342G	-53.18	24.9129G	-41.26	2
2462MHz	Pass	2.46697G	13.50	-16.50	1.9907G	-55.13	2.4G	-48.43	2.4G	-48.32	2.51238G	-52.74	24.57857G	-41.24	3
2462MHz	Pass	2.46697G	13.50	-16.50	1.9907G	-54.52	2.4G	-48.81	2.4G	-50.29	2.51382G	-52.94	5.21225G	-37.51	4
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.4319G	10.00	-20.00	1.83223G	-55.32	2.4G	-24.78	2.4G	-26.55	2.54926G	-52.30	24.14741G	-40.99	1
2422MHz	Pass	2.4319G	10.00	-20.00	1.82422G	-54.73	2.39856G	-23.49	2.4G	-24.92	2.50542G	-53.40	24.7532G	-41.54	2
2422MHz	Pass	2.4319G	10.00	-20.00	1.97421G	-53.81	2.39952G	-24.17	2.4G	-25.33	2.52894G	-53.67	15.19805G	-41.79	3
2422MHz	Pass	2.4319G	10.00	-20.00	2.091G	-55.36	2.3992G	-26.31	2.4G	-26.76	2.50846G	-53.23	15.18964G	-41.46	4
2437MHz	Pass	2.4319G	10.00	-20.00	1.74178G	-54.97	2.39952G	-21.84	2.4G	-26.82	2.55118G	-53.31	17.4417G	-42.08	1
2437MHz	Pass	2.4319G	10.00	-20.00	1.81849G	-55.38	2.39968G	-24.64	2.4G	-27.06	2.55054G	-53.18	16.84153G	-41.78	2
2437MHz	Pass	2.4319G	10.00	-20.00	2.18146G	-54.30	2.4G	-24.51	2.4G	-25.45	2.50846G	-52.76	24.50359G	-41.00	3
2437MHz	Pass	2.4319G	10.00	-20.00	2.14825G	-54.43	2.4G	-23.76	2.4G	-26.18	2.5139G	-51.96	24.40824G	-41.60	4
2452MHz	Pass	2.4319G	10.00	-20.00	2.11963G	-54.60	2.39952G	-38.99	2.4G	-40.21	2.52654G	-53.34	15.18403G	-41.55	1
2452MHz	Pass	2.4319G	10.00	-20.00	2.13108G	-53.54	2.39968G	-39.45	2.4G	-38.32	2.5315G	-53.53	15.20366G	-41.79	2
2452MHz	Pass	2.4319G	10.00	-20.00	2.30741G	-54.98	2.39968G	-39.36	2.4G	-37.87	2.5371G	-52.73	24.61017G	-41.37	3
2452MHz	Pass	2.4319G	10.00	-20.00	2.12421G	-55.03	2.4G	-38.20	2.4G	-38.48	2.50462G	-52.87	24.59895G	-41.75	4

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

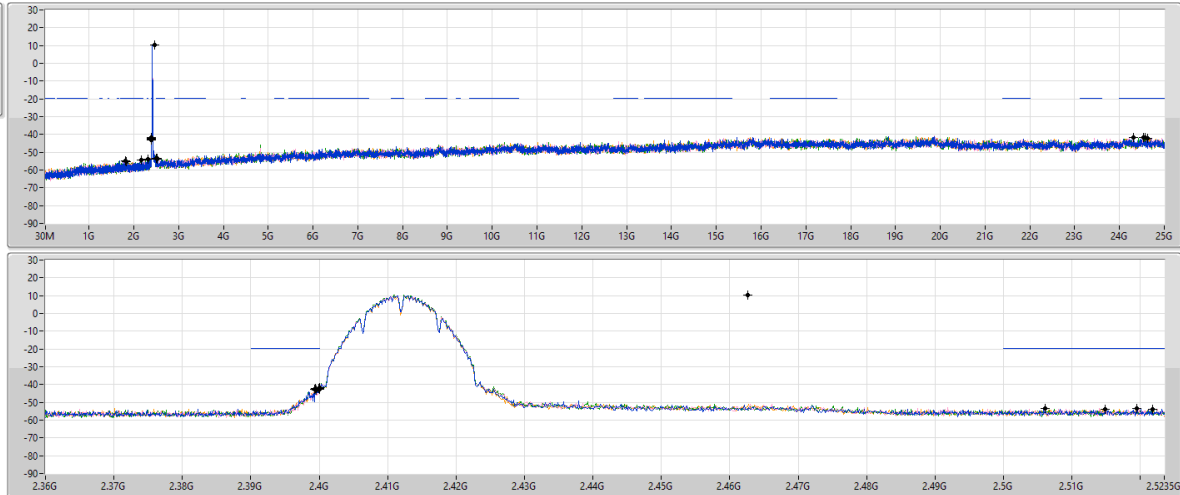
CSEndB

2412MHz

18/05/2023

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

Port 1
Port 2
Port 3
Port 4



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
2.46263G	10.42	-19.58	1.83109G	-55.14	2.39944G	-42.02	2.4G	-42.27	2.5195G	-53.57	24.53842G	-41.86	1
2.46263G	10.42	-19.58	2.16079G	-54.27	2.39936G	-42.87	2.4G	-42.57	2.50606G	-53.22	24.30323G	-41.67	2
2.46263G	10.42	-19.58	1.81012G	-54.92	2.39992G	-42.12	2.4G	-41.85	2.52174G	-53.81	24.62352G	-42.05	3
2.46263G	10.42	-19.58	2.30874G	-53.78	2.3996G	-43.18	2.4G	-41.85	2.51486G	-53.96	24.58138G	-41.90	4

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

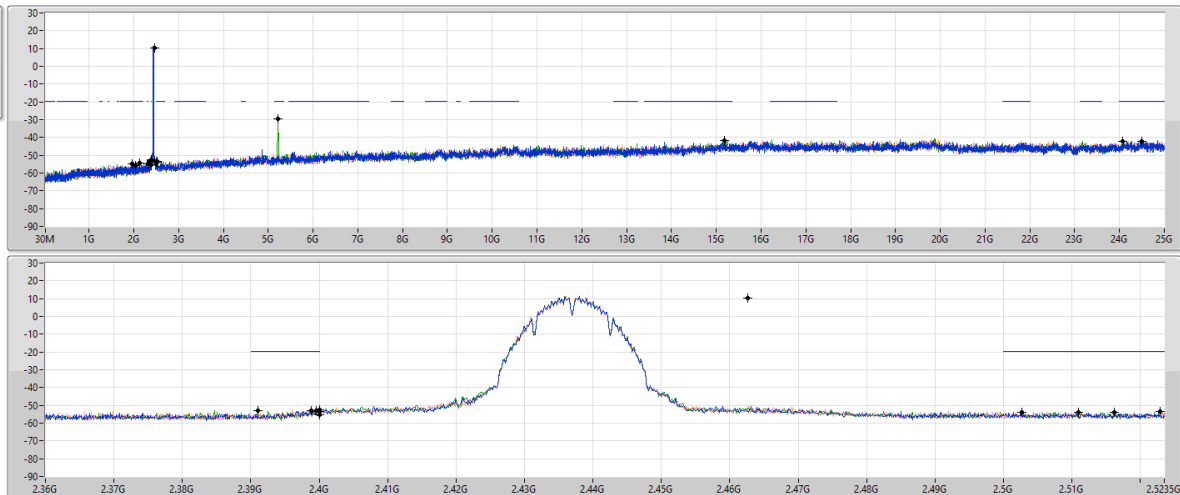
CSEndB

2437MHz

18/05/2023

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

Port 1
Port 2
Port 3
Port 4



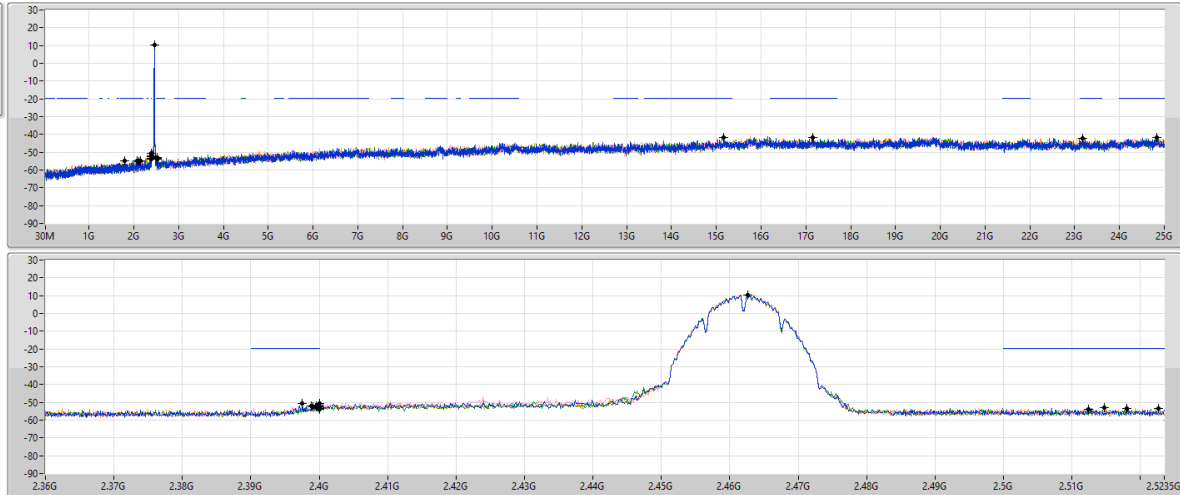
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46263G	10.42	-19.58	2.04312G	-55.87	2.39952G	-52.99	2.4G	-53.34	2.5027G	-54.10	15.17496G	-41.77	1
2.46263G	10.42	-19.58	1.97206G	-54.64	2.39104G	-53.01	2.4G	-55.24	2.52294G	-53.55	24.07846G	-42.29	2
2.46263G	10.42	-19.58	2.30874G	-54.73	2.3996G	-53.11	2.4G	-53.61	2.51614G	-53.78	5.2263G	-29.66	3
2.46263G	10.42	-19.58	2.13865G	-54.17	2.3988G	-52.86	2.4G	-52.32	2.51094G	-53.91	24.49428G	-42.20	4

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

CSEndB

2462MHz

18/05/2023

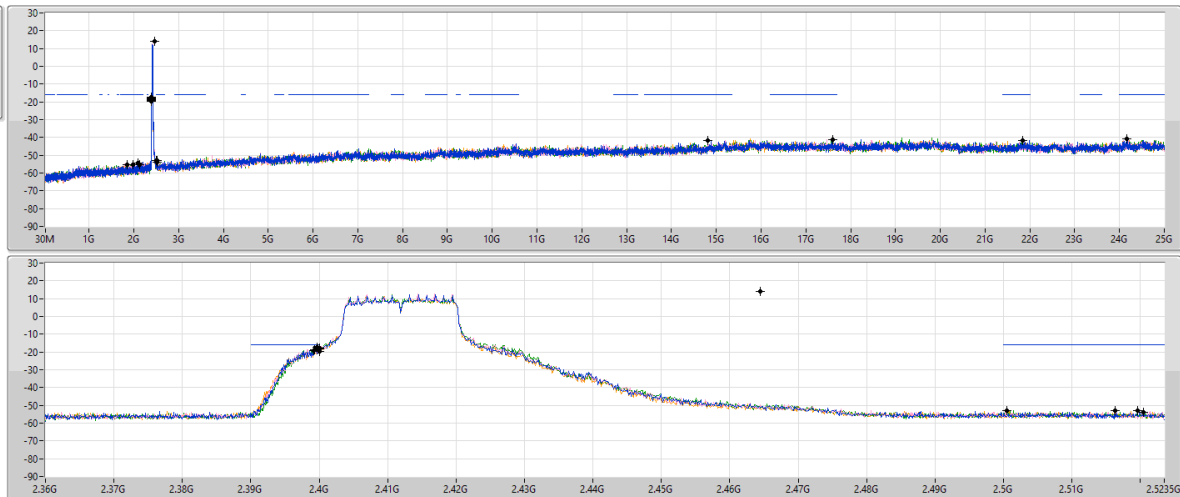
RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2
Port 3
Port 4

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

CSEndB

2412MHz

22/05/2023

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2
Port 3
Port 4

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

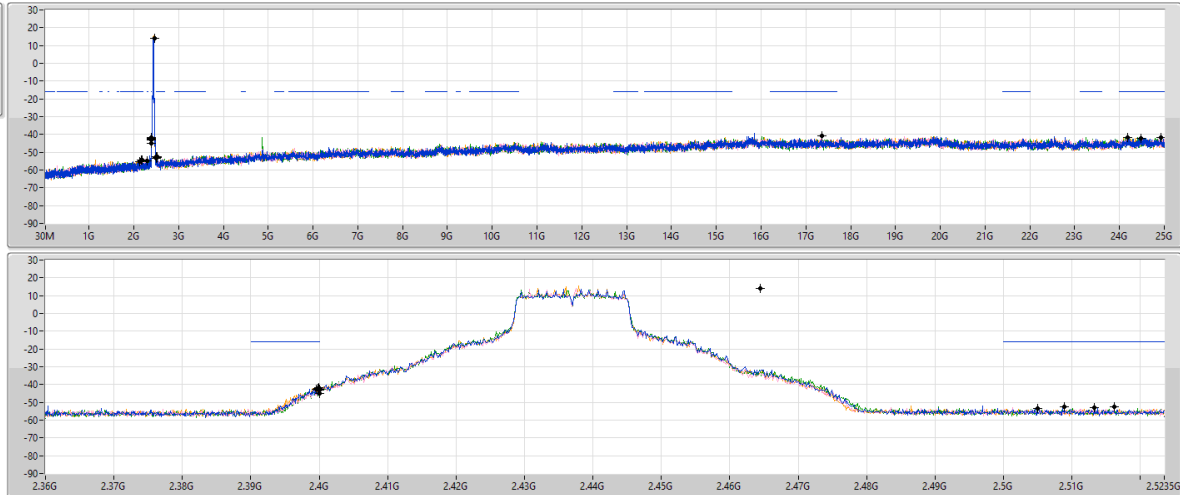
CSEndB

2437MHz

22/05/2023

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

Port 1
Port 2
Port 3
Port 4



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
2.46446G	14.18	-15.82	2.19341G	-54.27	2.39984G	-42.08	2.4G	-43.24	2.50494G	-53.23	24.17961G	-41.71	1
2.46446G	14.18	-15.82	2.13516G	-55.45	2.39992G	-43.00	2.4G	-45.00	2.51614G	-52.28	24.48866G	-41.96	2
2.46446G	14.18	-15.82	2.17127G	-54.31	2.3996G	-42.81	2.4G	-42.83	2.51326G	-52.74	24.92414G	-41.69	3
2.46446G	14.18	-15.82	2.30758G	-54.77	2.39992G	-41.52	2.4G	-43.34	2.50894G	-52.65	17.36361G	-41.00	4

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

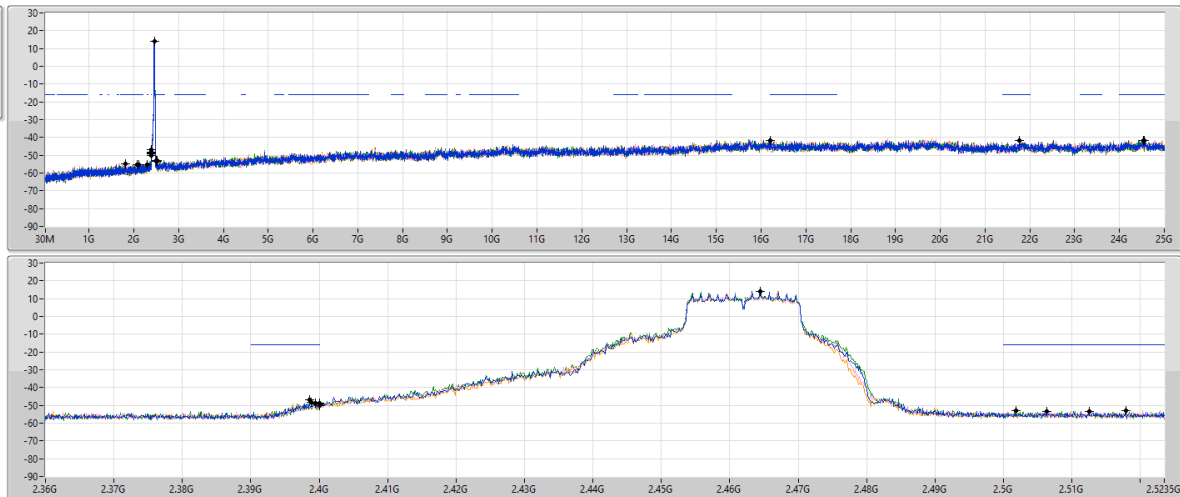
CSEndB

2462MHz

22/05/2023

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

Port 1
Port 2
Port 3
Port 4



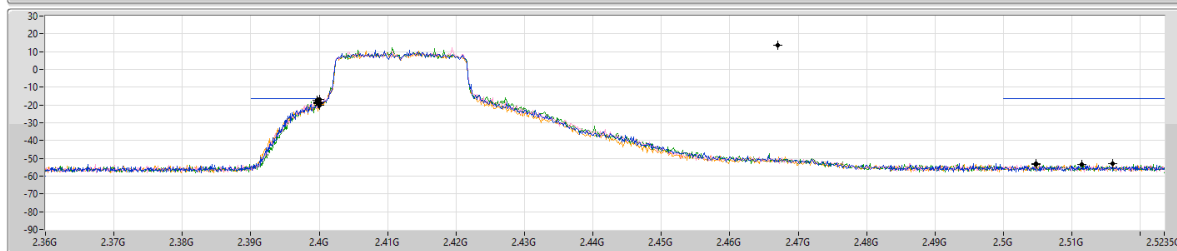
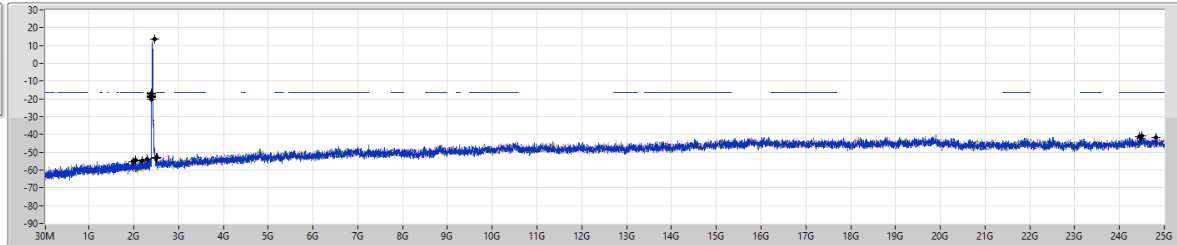
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46446G	14.18	-15.82	2.07458G	-55.18	2.39944G	-48.90	2.4G	-48.61	2.5179G	-53.19	24.53923G	-41.62	1
2.46446G	14.18	-15.82	1.81129G	-54.95	2.39944G	-48.95	2.4G	-50.08	2.50182G	-52.90	21.76619G	-41.62	2
2.46446G	14.18	-15.82	2.30175G	-55.12	2.39856G	-46.87	2.4G	-49.40	2.51254G	-53.33	16.2145G	-41.64	3
2.46446G	14.18	-15.82	2.10487G	-55.32	2.39888G	-48.30	2.4G	-49.35	2.5063G	-53.44	24.56171G	-41.51	4

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

CSEndB

2412MHz

22/05/2023

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2
Port 3
Port 4

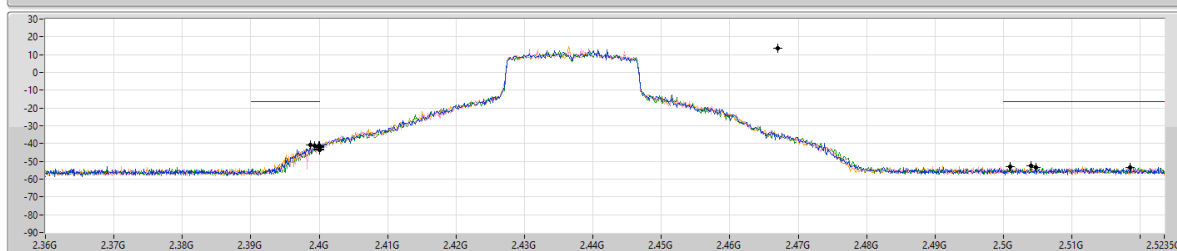
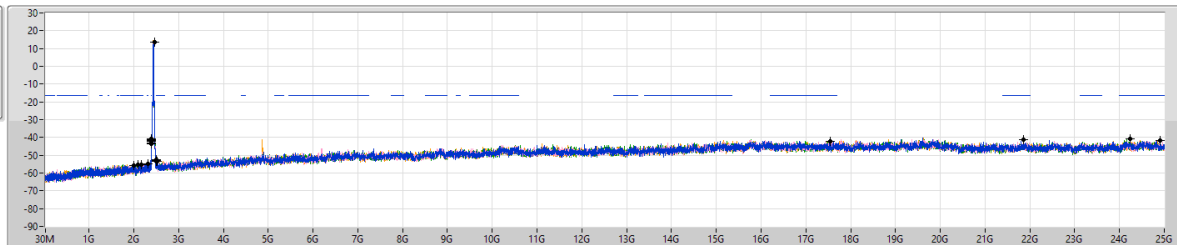
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46697G	13.50	-16.50	1.97439G	-55.32	2.39984G	-19.18	2.4G	-18.62	2.5115G	-53.42	24.47461G	-42.08	1
2.46697G	13.50	-16.50	2.30641G	-54.11	2.39976G	-18.11	2.4G	-18.93	2.5047G	-53.36	24.80614G	-41.76	2
2.46697G	13.50	-16.50	2.17826G	-55.03	2.39968G	-17.50	2.4G	-16.72	2.5047G	-52.96	24.4999G	-40.97	3
2.46697G	13.50	-16.50	2.0373G	-54.51	2.39976G	-18.81	2.4G	-19.99	2.5198G	-52.87	24.4409G	-41.45	4

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

CSEndB

2437MHz

22/05/2023

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2
Port 3
Port 4

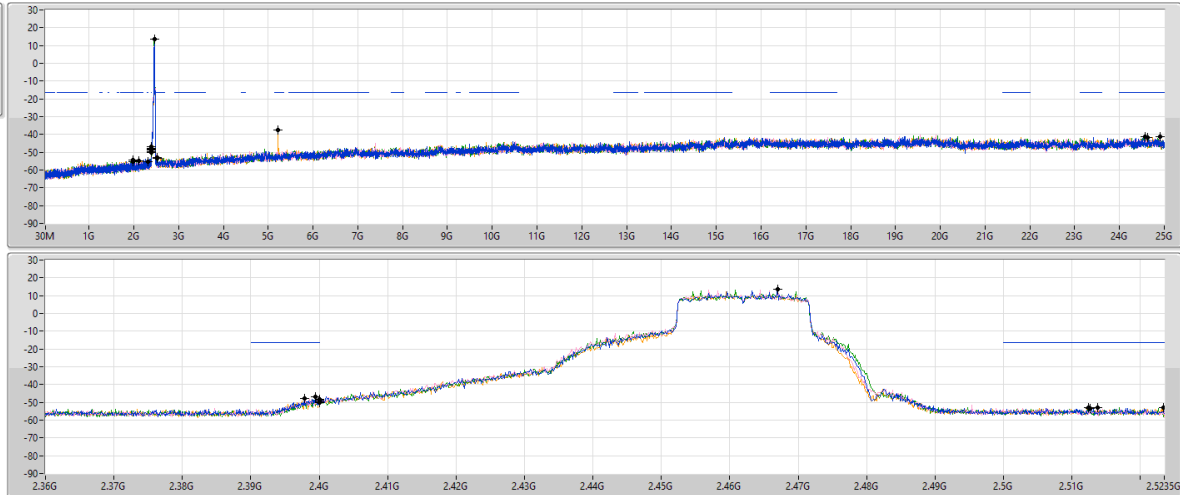
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46697G	13.50	-16.50	2.16428G	-55.39	2.39872G	-41.01	2.4G	-41.99	2.50094G	-53.08	21.86172G	-41.38	1
2.46697G	13.50	-16.50	1.99419G	-55.78	2.39936G	-41.25	2.4G	-43.15	2.51846G	-53.50	17.54342G	-42.00	2
2.46697G	13.50	-16.50	2.09788G	-55.20	2.4G	-41.72	2.4G	-43.39	2.5047G	-53.39	24.23018G	-40.98	3
2.46697G	13.50	-16.50	2.30991G	-55.02	2.39992G	-41.42	2.4G	-41.48	2.50398G	-52.71	24.90447G	-41.51	4

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

CSEndB

2462MHz

22/05/2023

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2
Port 3
Port 4

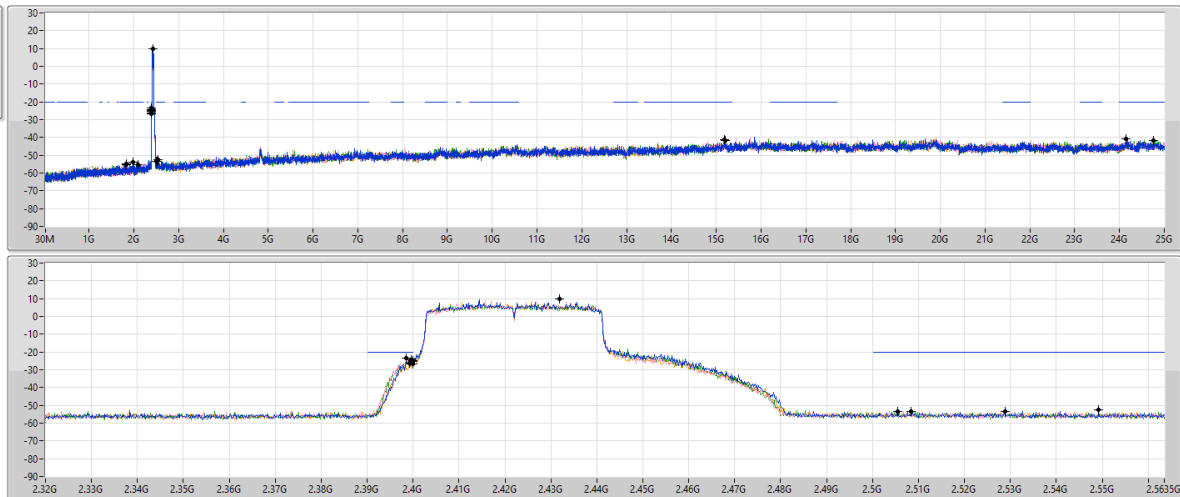
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.46697G	13.50	-16.50	2.30874G	-55.42	2.39944G	-46.98	2.4G	-49.70	2.51262G	-53.57	2.62352G	-41.67	1
2.46697G	13.50	-16.50	2.10603G	-54.75	2.39792G	-47.89	2.4G	-48.76	2.52342G	-53.18	2.49129G	-41.26	2
2.46697G	13.50	-16.50	1.9907G	-55.13	2.4G	-48.43	2.4G	-48.32	2.51238G	-52.74	2.457857G	-41.24	3
2.46697G	13.50	-16.50	1.9907G	-54.52	2.4G	-48.81	2.4G	-50.29	2.51382G	-52.94	2.521225G	-37.51	4

2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_4TX

CSEndB

2422MHz

20/03/2023

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2
Port 3
Port 4

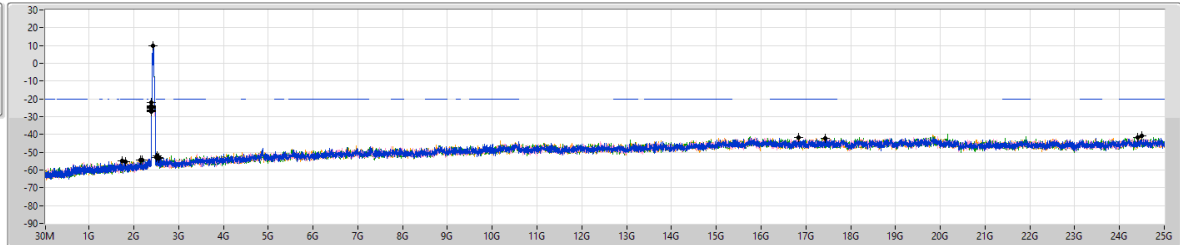
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4319G	10.00	-20.00	1.83223G	-55.32	2.4G	-24.78	2.4G	-26.55	2.54926G	-52.30	2.414741G	-40.99	1
2.4319G	10.00	-20.00	1.82422G	-54.73	2.39656G	-23.49	2.4G	-24.92	2.50542G	-53.40	2.47532G	-41.54	2
2.4319G	10.00	-20.00	1.97421G	-53.81	2.39952G	-24.17	2.4G	-25.33	2.52894G	-53.67	15.19805G	-41.79	3
2.4319G	10.00	-20.00	2.091G	-55.36	2.3992G	-26.31	2.4G	-26.76	2.50846G	-53.23	15.18964G	-41.46	4

2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_4TX

CSEndB

2437MHz

20/03/2023

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2
Port 3
Port 4

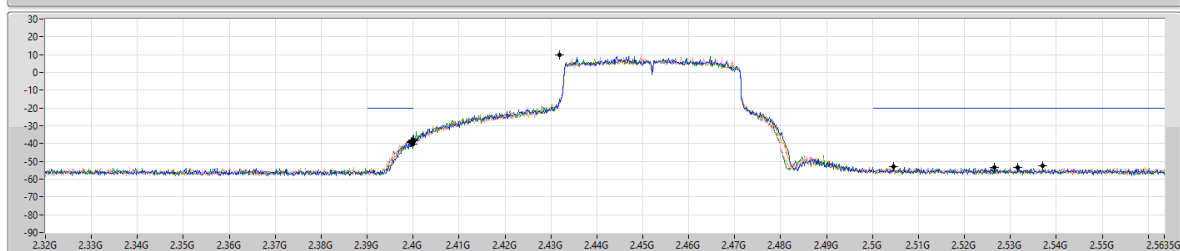
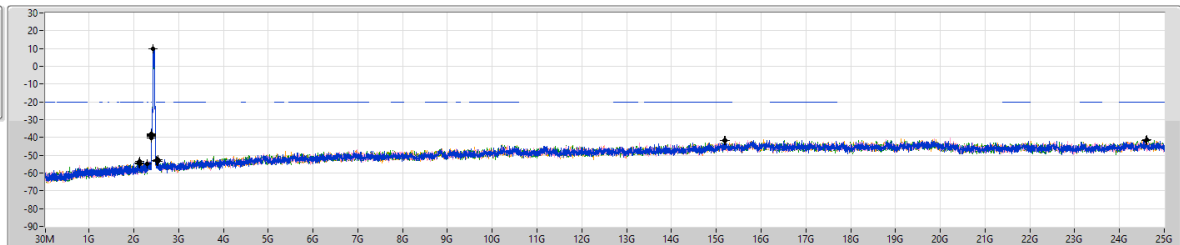
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4319G	10.00	-20.00	1.74178G	-54.97	2.39952G	-21.84	2.4G	-26.82	2.55118G	-53.31	17.4417G	-42.08	1
2.4319G	10.00	-20.00	1.81849G	-55.38	2.39968G	-24.64	2.4G	-27.06	2.55054G	-53.18	16.84153G	-41.78	2
2.4319G	10.00	-20.00	2.18146G	-54.30	2.4G	-24.51	2.4G	-25.45	2.50846G	-52.76	24.50359G	-41.00	3
2.4319G	10.00	-20.00	2.14825G	-54.43	2.4G	-23.76	2.4G	-26.18	2.5139G	-51.96	24.40824G	-41.60	4

2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_4TX

CSEndB

2452MHz

20/03/2023

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2
Port 3
Port 4

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
2.4319G	10.00	-20.00	2.11963G	-54.60	2.39952G	-38.99	2.4G	-40.21	2.52654G	-53.34	15.18403G	-41.55	1
2.4319G	10.00	-20.00	2.13108G	-53.54	2.39968G	-39.45	2.4G	-38.32	2.5315G	-53.53	15.20366G	-41.79	2
2.4319G	10.00	-20.00	2.30741G	-54.98	2.39968G	-39.36	2.4G	-37.87	2.5371G	-52.73	24.61017G	-41.37	3
2.4319G	10.00	-20.00	2.12421G	-55.03	2.4G	-38.20	2.4G	-38.48	2.50462G	-52.67	24.59895G	-41.75	4



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	Pass	2.43674G	3.30	-26.70	2.07108G	-55.65	2.39992G	-29.69	2.4G	-31.05	2.50342G	-52.81	21.68753G	-44.95	3
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	2.42639G	2.13	-27.87	2.14711G	-55.27	2.39968G	-42.98	2.4G	-40.57	2.52846G	-55.13	21.6794G	-45.19	4

**Result**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43674G	3.30	-26.70	2.15962G	-55.58	2.39992G	-40.92	2.4G	-41.19	2.50726G	-52.15	21.61448G	-44.66	1
2412MHz	Pass	2.43674G	3.30	-26.70	1.97672G	-55.34	2.39984G	-41.11	2.4G	-40.22	2.52326G	-52.78	21.51052G	-45.19	2
2412MHz	Pass	2.43674G	3.30	-26.70	2.07108G	-55.65	2.39992G	-29.69	2.4G	-31.05	2.50342G	-52.81	21.68753G	-44.95	3
2412MHz	Pass	2.43674G	3.30	-26.70	1.96507G	-55.63	2.39992G	-44.17	2.4G	-42.97	2.50614G	-53.01	21.54705G	-45.76	4
2437MHz	Pass	2.43674G	3.30	-26.70	1.86138G	-55.10	2.39896G	-52.32	2.4G	-55.98	2.52166G	-52.37	21.69034G	-45.67	1
2437MHz	Pass	2.43674G	3.30	-26.70	2.15496G	-55.66	2.3984G	-52.71	2.4G	-54.43	2.51446G	-52.28	21.52457G	-45.25	2
2437MHz	Pass	2.43674G	3.30	-26.70	2.15729G	-55.19	2.3976G	-52.30	2.4G	-54.46	2.50942G	-52.61	21.69314G	-44.67	3
2437MHz	Pass	2.43674G	3.30	-26.70	2.19923G	-55.64	2.39848G	-53.11	2.4G	-54.42	2.51942G	-52.56	21.83081G	-45.58	4
2462MHz	Pass	2.43674G	3.30	-26.70	1.83925G	-55.54	2.39824G	-51.75	2.4G	-54.80	2.50886G	-52.88	21.67629G	-43.63	1
2462MHz	Pass	2.43674G	3.30	-26.70	2.11419G	-55.25	2.39568G	-52.49	2.4G	-55.50	2.51278G	-51.85	21.75496G	-44.47	2
2462MHz	Pass	2.43674G	3.30	-26.70	2.09671G	-55.62	2.4G	-52.89	2.4G	-54.73	2.50062G	-51.70	21.66224G	-45.54	3
2462MHz	Pass	2.43674G	3.30	-26.70	2.13166G	-55.70	2.39976G	-52.19	2.4G	-54.50	2.50078G	-53.01	21.59481G	-45.01	4
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42639G	2.13	-27.87	2.14825G	-55.60	2.4G	-43.88	2.4G	-42.14	2.52798G	-55.05	21.66257G	-44.51	1
2422MHz	Pass	2.42639G	2.13	-27.87	2.13795G	-55.77	2.4G	-43.85	2.4G	-41.97	2.50414G	-55.19	21.70464G	-45.36	2
2422MHz	Pass	2.42639G	2.13	-27.87	2.0223G	-55.67	2.39968G	-43.77	2.4G	-41.16	2.5267G	-55.19	21.61209G	-45.67	3
2422MHz	Pass	2.42639G	2.13	-27.87	2.14711G	-55.27	2.39968G	-42.98	2.4G	-40.57	2.52846G	-55.13	21.6794G	-45.19	4
2437MHz	Pass	2.42639G	2.13	-27.87	1.94444G	-55.44	2.39952G	-48.98	2.4G	-49.88	2.51742G	-54.97	21.68781G	-45.42	1
2437MHz	Pass	2.42639G	2.13	-27.87	1.8849G	-55.59	2.39952G	-49.08	2.4G	-49.46	2.53918G	-54.52	21.67659G	-45.83	2
2437MHz	Pass	2.42639G	2.13	-27.87	2.16657G	-55.86	2.39952G	-48.84	2.4G	-53.00	2.50878G	-55.21	21.73829G	-44.65	3
2437MHz	Pass	2.42639G	2.13	-27.87	2.11848G	-54.57	2.39968G	-47.62	2.4G	-49.95	2.52606G	-55.25	21.54197G	-45.71	4
2452MHz	Pass	2.42639G	2.13	-27.87	1.88147G	-55.12	2.39856G	-51.71	2.4G	-53.57	2.5507G	-55.05	21.66538G	-45.34	1
2452MHz	Pass	2.42639G	2.13	-27.87	1.77842G	-54.83	2.39936G	-52.14	2.4G	-48.60	2.5435G	-54.54	21.52234G	-45.91	2
2452MHz	Pass	2.42639G	2.13	-27.87	2.15054G	-54.73	2.39824G	-53.64	2.4G	-54.21	2.53646G	-55.43	21.68781G	-45.13	3
2452MHz	Pass	2.42639G	2.13	-27.87	2.14138G	-55.51	2.39904G	-51.84	2.4G	-53.92	2.55374G	-54.69	21.57002G	-45.47	4

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

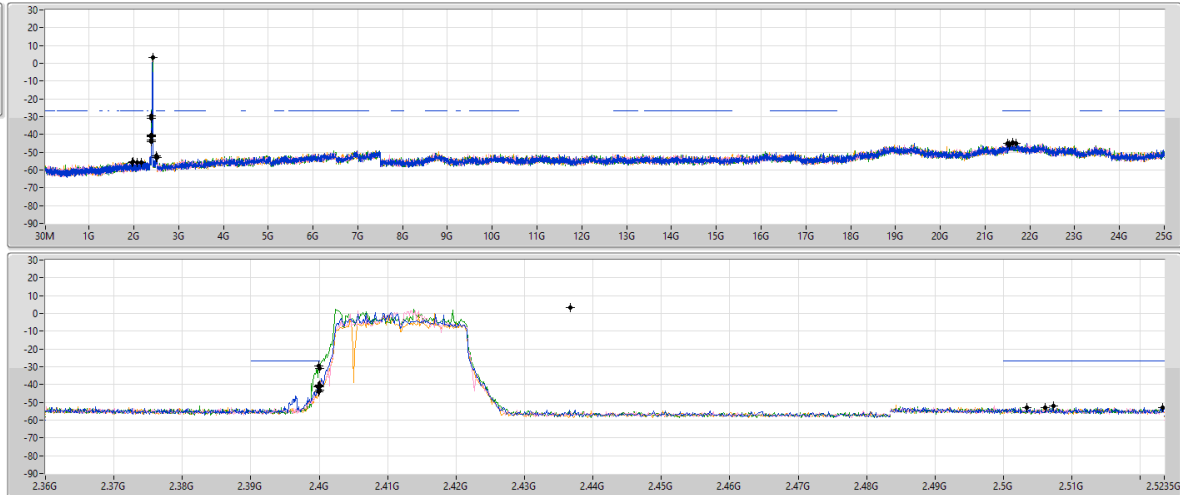
CSEndB

2412MHz

27/06/2023

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

Port 1
Port 2
Port 3
Port 4



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
2.43674G	3.30	-26.70	2.15962G	-55.58	2.39992G	-40.92	2.4G	-41.19	2.50726G	-52.15	21.61448G	-44.66	1
2.43674G	3.30	-26.70	1.97672G	-55.34	2.39984G	-41.11	2.4G	-40.22	2.52326G	-52.78	21.51052G	-45.19	2
2.43674G	3.30	-26.70	2.07108G	-55.65	2.39992G	-29.69	2.4G	-31.05	2.50342G	-52.81	21.68753G	-44.95	3
2.43674G	3.30	-26.70	1.96507G	-55.63	2.39992G	-44.17	2.4G	-42.97	2.50614G	-53.01	21.54705G	-45.76	4

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

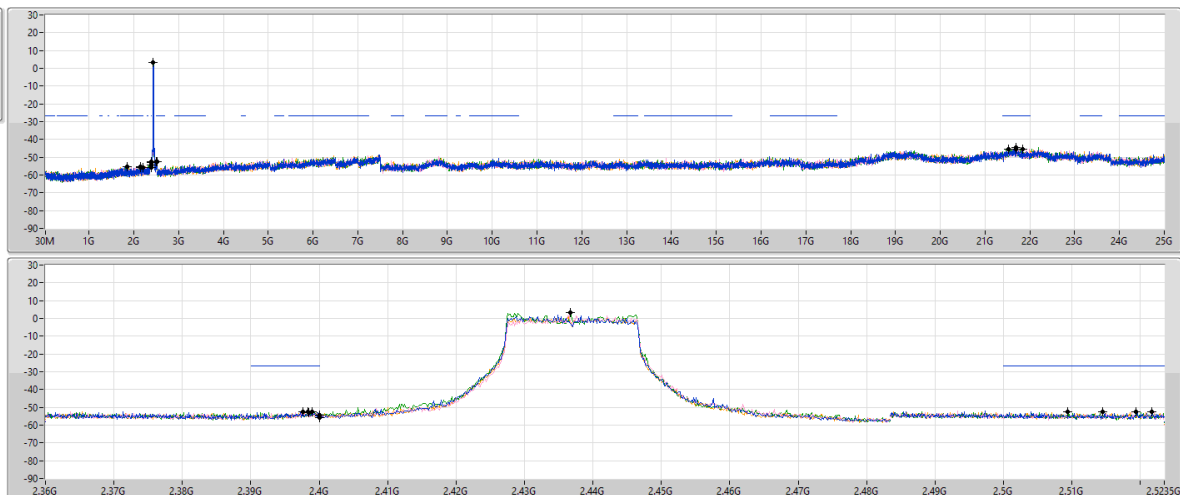
CSEndB

2437MHz

27/06/2023

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

Port 1
Port 2
Port 3
Port 4



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
2.43674G	3.30	-26.70	1.86138G	-55.10	2.39896G	-52.32	2.4G	-55.98	2.52166G	-52.37	21.69034G	-45.67	1
2.43674G	3.30	-26.70	2.15496G	-55.66	2.3984G	-52.71	2.4G	-54.43	2.51446G	-52.28	21.52457G	-45.25	2
2.43674G	3.30	-26.70	2.15729G	-55.19	2.3976G	-52.30	2.4G	-54.46	2.50942G	-52.61	21.69314G	-44.67	3
2.43674G	3.30	-26.70	2.19923G	-55.64	2.39848G	-53.11	2.4G	-54.42	2.51942G	-52.56	21.83081G	-45.58	4

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

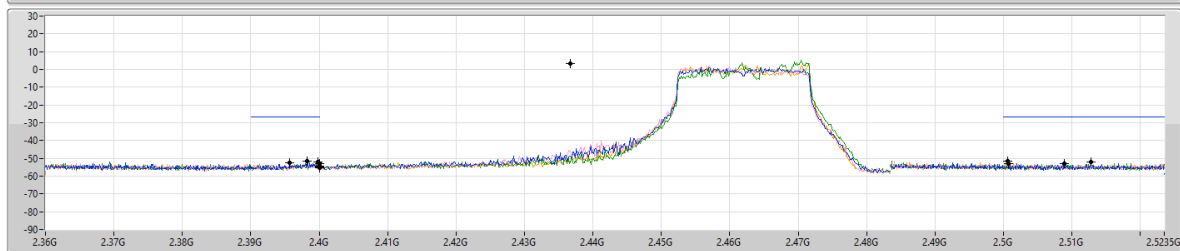
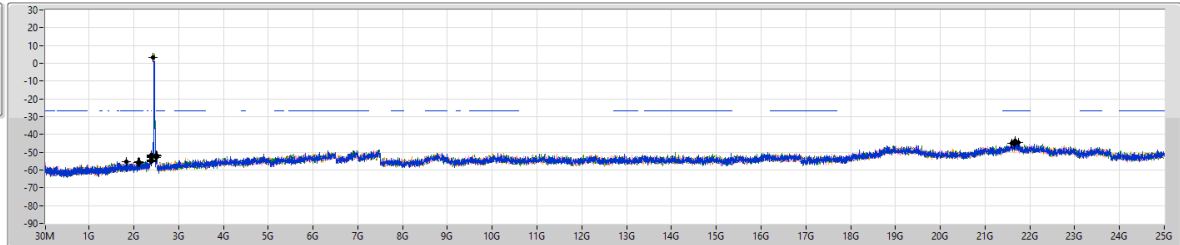
CSEndB

2462MHz

27/06/2023

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

Port 1
Port 2
Port 3
Port 4



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
2.43674G	3.30	-26.70	1.83925G	-55.54	2.39824G	-51.75	2.4G	-54.80	2.50886G	-52.88	21.67629G	-43.63	1
2.43674G	3.30	-26.70	2.11419G	-55.25	2.39568G	-52.49	2.4G	-55.50	2.51278G	-51.85	21.75496G	-44.47	2
2.43674G	3.30	-26.70	2.09671G	-55.62	2.4G	-52.89	2.4G	-54.73	2.50062G	-51.70	21.66224G	-45.54	3
2.43674G	3.30	-26.70	2.13166G	-55.70	2.39978G	-52.19	2.4G	-54.50	2.50078G	-53.01	21.59481G	-45.01	4

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

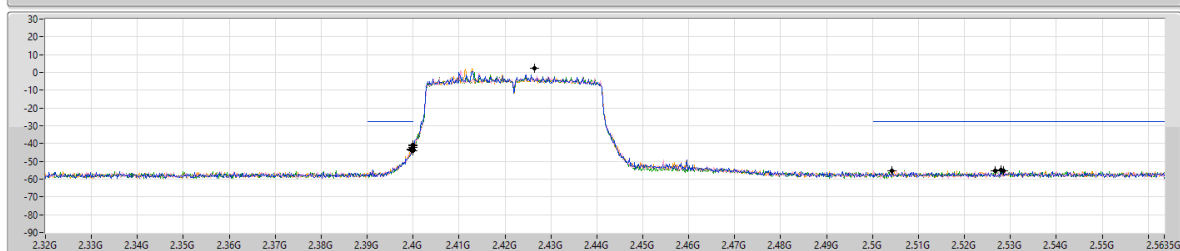
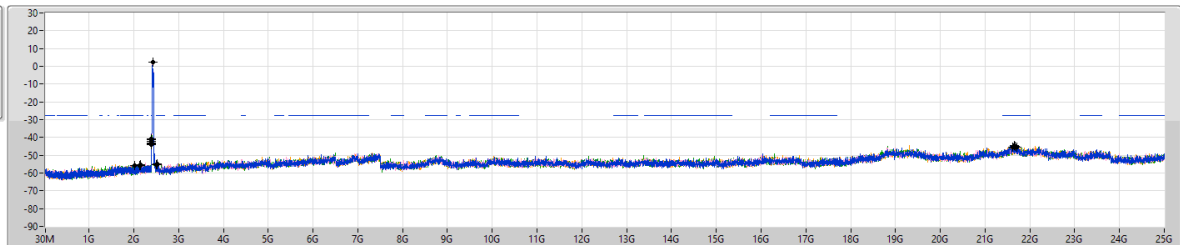
CSEndB

2422MHz

27/06/2023

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

Port 1
Port 2
Port 3
Port 4



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
2.42639G	2.13	-27.87	2.14825G	-55.60	2.4G	-43.88	2.4G	-42.14	2.52798G	-55.05	21.66257G	-44.51	1
2.42639G	2.13	-27.87	2.13795G	-55.77	2.4G	-43.85	2.4G	-41.97	2.50414G	-55.19	21.70464G	-45.36	2
2.42639G	2.13	-27.87	2.0223G	-55.67	2.39968G	-43.77	2.4G	-41.16	2.5267G	-55.19	21.61209G	-45.67	3
2.42639G	2.13	-27.87	2.14711G	-55.27	2.39968G	-42.98	2.4G	-40.57	2.52846G	-55.13	21.6794G	-45.19	4

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

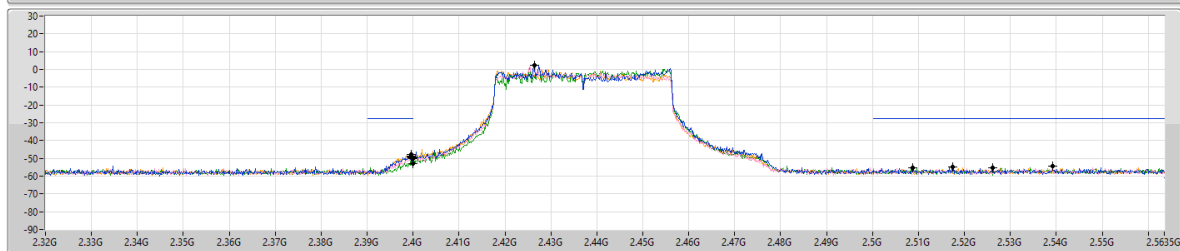
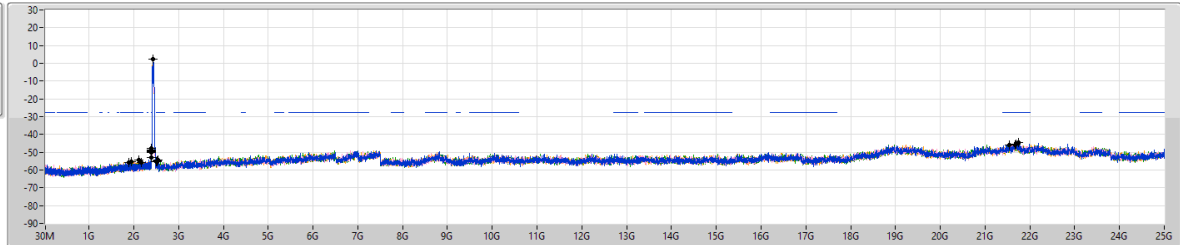
CSEndB

2437MHz

27/06/2023

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

Port 1
Port 2
Port 3
Port 4



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
2.42639G	2.13	-27.87	1.94444G	-55.44	2.39952G	-48.98	2.4G	-49.88	2.51742G	-54.97	21.68781G	-45.42	1
2.42639G	2.13	-27.87	1.8849G	-55.59	2.39952G	-49.08	2.4G	-49.46	2.53918G	-54.52	21.67659G	-45.83	2
2.42639G	2.13	-27.87	2.16657G	-55.86	2.39952G	-48.84	2.4G	-53.00	2.50878G	-55.21	21.73829G	-44.65	3
2.42639G	2.13	-27.87	2.11848G	-54.57	2.39968G	-47.62	2.4G	-49.95	2.52606G	-55.25	21.54197G	-45.71	4

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

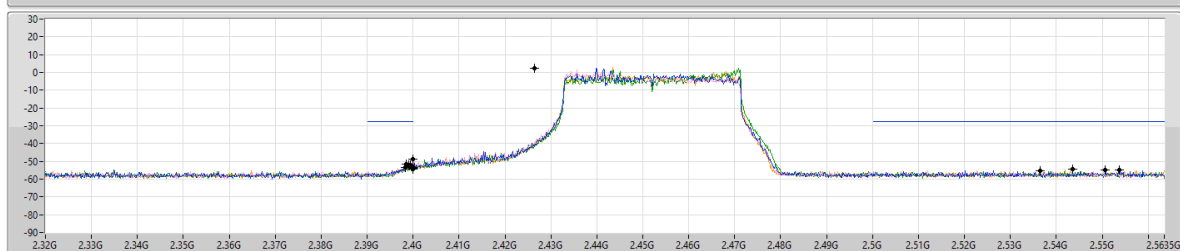
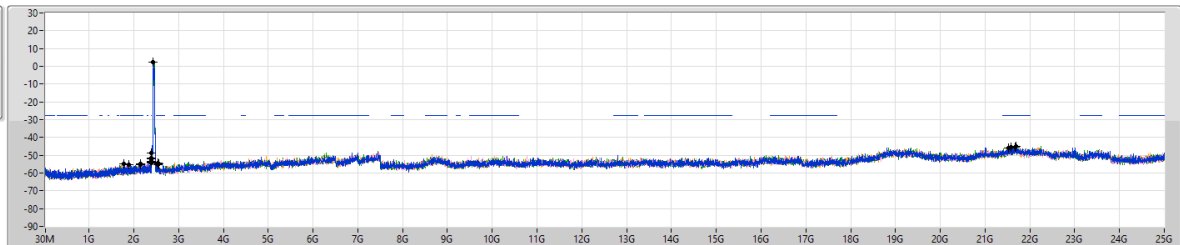
CSEndB

2452MHz

27/06/2023

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

Port 1
Port 2
Port 3
Port 4



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
2.42639G	2.13	-27.87	1.88147G	-55.12	2.39856G	-51.71	2.4G	-53.57	2.5507G	-55.05	21.66538G	-45.34	1
2.42639G	2.13	-27.87	1.77842G	-54.83	2.39936G	-52.14	2.4G	-48.60	2.5435G	-54.54	21.52234G	-45.91	2
2.42639G	2.13	-27.87	2.15054G	-54.73	2.39824G	-53.64	2.4G	-54.21	2.53646G	-55.43	21.68781G	-45.13	3
2.42639G	2.13	-27.87	2.14138G	-55.51	2.39904G	-51.84	2.4G	-53.92	2.55374G	-54.69	21.57002G	-45.47	4



Summary

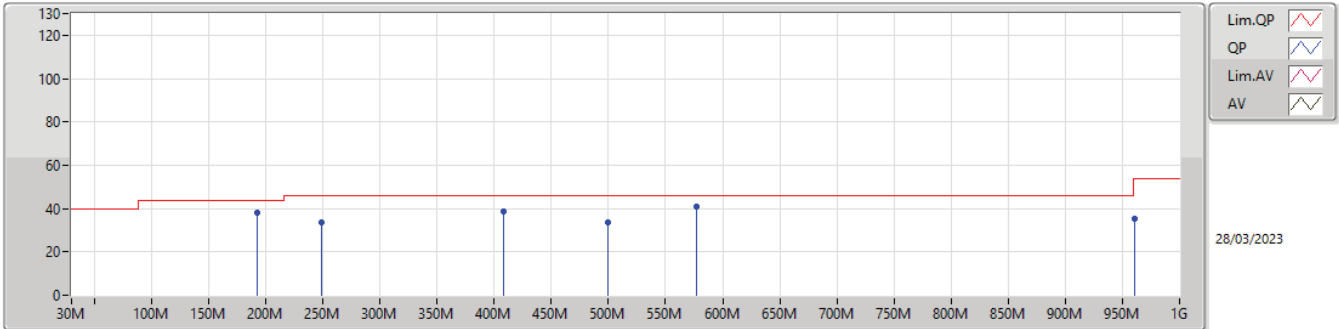
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1.(MCS0)_4TX	Pass	PK	192.96M	39.86	43.50	-3.64	3	Horizontal	0	1.00	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	192.96M	38.13	43.50	-5.37	3	Vertical	360	1.00	-
2437MHz	Pass	PK	249.22M	33.89	46.00	-12.11	3	Vertical	360	1.00	-
2437MHz	Pass	PK	408.3M	38.55	46.00	-7.45	3	Vertical	360	1.00	-
2437MHz	Pass	PK	499.48M	33.61	46.00	-12.39	3	Vertical	360	1.00	-
2437MHz	Pass	PK	577.08M	40.70	46.00	-5.30	3	Vertical	360	1.00	-
2437MHz	Pass	PK	961.2M	35.07	54.00	-18.93	3	Vertical	360	1.00	-
2437MHz	Pass	PK	146.4M	34.99	43.50	-8.51	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	192.96M	39.86	43.50	-3.64	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	260.86M	38.88	46.00	-7.12	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	577.08M	35.34	46.00	-10.66	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	827.34M	36.32	46.00	-9.68	3	Horizontal	0	1.00	-
2437MHz	Pass	QP	406.36M	39.37	46.00	-6.63	3	Horizontal	0	2.21	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

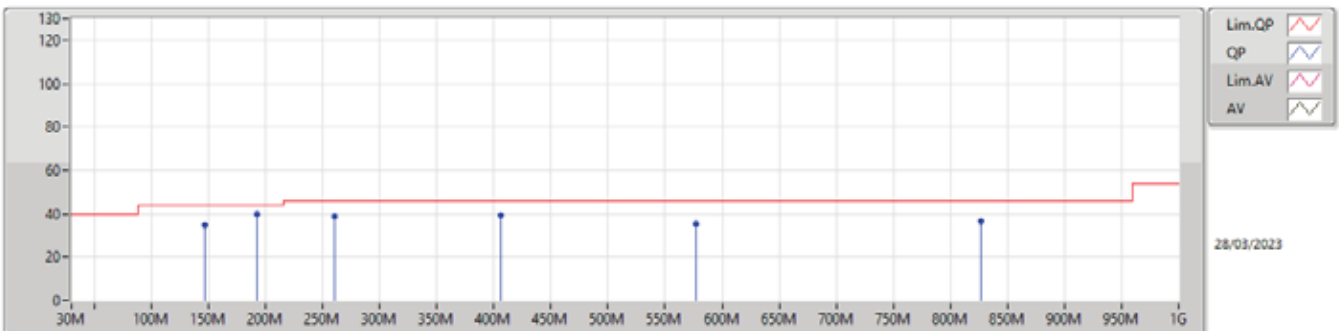
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	192.96M	38.13	43.50	-5.37	-10.36	3	Vertical	360	1.00	48.49	14.22	2.35	26.93
PK	249.22M	33.89	46.00	-12.11	-6.47	3	Vertical	360	1.00	40.36	17.53	2.68	26.68
PK	408.3M	38.55	46.00	-7.45	-2.42	3	Vertical	360	1.00	40.97	21.38	3.45	27.25
PK	499.48M	33.61	46.00	-12.39	-1.13	3	Vertical	360	1.00	34.74	22.77	3.87	27.77
PK	577.08M	40.70	46.00	-5.30	0.20	3	Vertical	360	1.00	40.50	23.96	4.21	27.97
PK	961.2M	35.07	54.00	-18.93	4.91	3	Vertical	360	1.00	30.16	26.56	5.60	27.25

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	146.4M	34.99	43.50	-8.51	-9.29	3	Horizontal	0	1.00	44.28	15.85	2.02	27.16
PK	192.96M	39.86	43.50	-3.64	-10.36	3	Horizontal	0	1.00	50.22	14.22	2.35	26.93
PK	260.86M	38.88	46.00	-7.12	-5.35	3	Horizontal	0	1.00	44.23	18.57	2.74	26.66
PK	577.08M	35.34	46.00	-10.66	0.20	3	Horizontal	0	1.00	35.14	23.96	4.21	27.97
PK	827.34M	36.32	46.00	-9.68	3.11	3	Horizontal	0	1.00	33.21	25.61	5.13	27.63
QP	406.36M	39.37	46.00	-6.63	-2.51	3	Horizontal	0	2.21	41.88	21.29	3.44	27.24

**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)_4TX	Pass	AV	4.92398G	53.93	54.00	-0.07	3	Vertical	23	1.37	-
802.11g_Nss1,(6Mbps)_4TX	Pass	AV	4.92032G	53.71	54.00	-0.29	3	Horizontal	49	1.68	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	AV	4.87408G	53.92	54.00	-0.08	3	Horizontal	321	1.94	-
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	AV	4.87928G	53.35	54.00	-0.65	3	Vertical	311	1.92	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3894G	47.92	54.00	-6.08	3	Vertical	150	1.85	-
2412MHz	Pass	AV	2.4128G	107.47	Inf	-Inf	3	Vertical	150	1.85	-
2412MHz	Pass	PK	2.376G	58.80	74.00	-15.20	3	Vertical	150	1.85	-
2412MHz	Pass	PK	2.4128G	109.73	Inf	-Inf	3	Vertical	150	1.85	-
2412MHz	Pass	AV	2.3832G	47.86	54.00	-6.14	3	Horizontal	342	1.10	-
2412MHz	Pass	AV	2.4128G	111.34	Inf	-Inf	3	Horizontal	342	1.10	-
2412MHz	Pass	PK	2.385G	58.97	74.00	-15.03	3	Horizontal	342	1.10	-
2412MHz	Pass	PK	2.4128G	113.60	Inf	-Inf	3	Horizontal	342	1.10	-
2412MHz	Pass	AV	4.824G	52.85	54.00	-1.15	3	Vertical	38	1.03	-
2412MHz	Pass	PK	4.83394G	52.18	74.00	-18.82	3	Vertical	38	1.03	-
2412MHz	Pass	AV	4.82398G	52.88	54.00	-1.12	3	Horizontal	31	1.21	-
2412MHz	Pass	PK	4.82388G	55.34	74.00	-18.66	3	Horizontal	31	1.21	-
2417MHz	Pass	AV	2.3878G	47.90	54.00	-6.10	3	Vertical	153	2.15	-
2417MHz	Pass	AV	2.4178G	105.60	Inf	-Inf	3	Vertical	153	2.15	-
2417MHz	Pass	PK	2.3864G	58.80	74.00	-15.20	3	Vertical	153	2.15	-
2417MHz	Pass	PK	2.4178G	107.84	Inf	-Inf	3	Vertical	153	2.15	-
2417MHz	Pass	AV	2.3886G	47.91	54.00	-6.09	3	Horizontal	37	1.07	-
2417MHz	Pass	AV	2.4164G	114.04	Inf	-Inf	3	Horizontal	37	1.07	-
2417MHz	Pass	PK	2.3732G	59.04	74.00	-14.96	3	Horizontal	37	1.07	-
2417MHz	Pass	PK	2.416G	116.33	Inf	-Inf	3	Horizontal	37	1.07	-
2417MHz	Pass	AV	4.83398G	52.63	54.00	-1.37	3	Vertical	38	1.06	-
2417MHz	Pass	PK	4.83392G	55.39	74.00	-18.61	3	Vertical	38	1.06	-
2417MHz	Pass	AV	4.83402G	53.52	54.00	-0.48	3	Horizontal	38	1.06	-
2417MHz	Pass	PK	4.83394G	56.15	74.00	-17.85	3	Horizontal	38	1.06	-
2437MHz	Pass	AV	2.3762G	47.82	54.00	-6.18	3	Vertical	98	1.81	-
2437MHz	Pass	AV	2.4378G	108.66	Inf	-Inf	3	Vertical	98	1.81	-
2437MHz	Pass	AV	2.4846G	48.73	54.00	-5.27	3	Vertical	98	1.81	-
2437MHz	Pass	PK	2.369G	58.76	74.00	-15.24	3	Vertical	98	1.81	-
2437MHz	Pass	PK	2.4378G	110.93	Inf	-Inf	3	Vertical	98	1.81	-
2437MHz	Pass	PK	2.4946G	59.39	74.00	-14.61	3	Vertical	98	1.81	-
2437MHz	Pass	AV	2.389G	48.14	54.00	-5.86	3	Horizontal	341	1.37	-
2437MHz	Pass	AV	2.4362G	111.69	Inf	-Inf	3	Horizontal	341	1.37	-
2437MHz	Pass	AV	2.4942G	48.74	54.00	-5.26	3	Horizontal	341	1.37	-
2437MHz	Pass	PK	2.3638G	58.99	74.00	-15.01	3	Horizontal	341	1.37	-
2437MHz	Pass	PK	2.4362G	113.97	Inf	-Inf	3	Horizontal	341	1.37	-
2437MHz	Pass	PK	2.4938G	59.31	74.00	-14.69	3	Horizontal	341	1.37	-
2437MHz	Pass	AV	4.87398G	52.81	54.00	-1.19	3	Vertical	22	1.44	-
2437MHz	Pass	PK	4.87404G	55.53	74.00	-18.47	3	Vertical	22	1.44	-
2437MHz	Pass	AV	4.87406G	52.01	54.00	-1.99	3	Horizontal	24	1.66	-
2437MHz	Pass	PK	4.87394G	54.88	74.00	-19.12	3	Horizontal	24	1.66	-
2462MHz	Pass	AV	2.4612G	113.60	Inf	-Inf	3	Vertical	22	2.76	-
2462MHz	Pass	AV	2.4976G	48.75	54.00	-5.25	3	Vertical	22	2.76	-
2462MHz	Pass	PK	2.461G	115.87	Inf	-Inf	3	Vertical	22	2.76	-
2462MHz	Pass	PK	2.4846G	60.02	74.00	-13.98	3	Vertical	22	2.76	-
2462MHz	Pass	AV	2.4628G	112.67	Inf	-Inf	3	Horizontal	37	2.74	-
2462MHz	Pass	AV	2.4964G	48.74	54.00	-5.26	3	Horizontal	37	2.74	-
2462MHz	Pass	PK	2.4628G	114.97	Inf	-Inf	3	Horizontal	37	2.74	-
2462MHz	Pass	PK	2.4844G	60.02	74.00	-13.98	3	Horizontal	37	2.74	-
2462MHz	Pass	AV	4.92398G	53.93	54.00	-0.07	3	Vertical	23	1.37	-
2462MHz	Pass	PK	4.92398G	56.36	74.00	-17.64	3	Vertical	23	1.37	-
2462MHz	Pass	AV	4.92396G	51.36	54.00	-2.64	3	Horizontal	22	1.64	-
2462MHz	Pass	PK	4.92388G	54.12	74.00	-19.88	3	Horizontal	22	1.64	-
802.11g_Nss1(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	48.28	54.00	-5.72	3	Vertical	29	2.20	-
2412MHz	Pass	AV	2.4182G	111.89	Inf	-Inf	3	Vertical	29	2.20	-
2412MHz	Pass	PK	2.3894G	58.34	74.00	-15.66	3	Vertical	29	2.20	-
2412MHz	Pass	PK	2.4184G	120.50	Inf	-Inf	3	Vertical	29	2.20	-
2412MHz	Pass	AV	2.39G	52.63	54.00	-1.37	3	Horizontal	45	1.00	-
2412MHz	Pass	AV	2.4102G	115.50	Inf	-Inf	3	Horizontal	45	1.00	-
2412MHz	Pass	PK	2.39G	63.99	74.00	-10.01	3	Horizontal	45	1.00	-



RSE TX above 1GHz Non-Beamforming

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2412MHz	Pass	PK	2.4104G	124.17	Inf	-Inf	3	Horizontal	45	1.00	-
2412MHz	Pass	AV	4.82394G	53.26	54.00	-0.74	3	Vertical	34	1.00	-
2412MHz	Pass	PK	4.8246G	64.62	74.00	-9.38	3	Vertical	34	1.00	-
2412MHz	Pass	AV	4.82394G	52.07	54.00	-1.93	3	Horizontal	27	1.28	-
2412MHz	Pass	PK	4.82466G	63.67	74.00	-10.33	3	Horizontal	27	1.28	-
2417MHz	Pass	AV	2.3858G	47.31	54.00	-6.69	3	Vertical	103	2.69	-
2417MHz	Pass	AV	2.4202G	111.89	Inf	-Inf	3	Vertical	103	2.69	-
2417MHz	Pass	PK	2.3758G	58.50	74.00	-15.50	3	Vertical	103	2.69	-
2417MHz	Pass	PK	2.4202G	120.15	Inf	-Inf	3	Vertical	103	2.69	-
2417MHz	Pass	AV	2.3882G	47.34	54.00	-6.66	3	Horizontal	65	1.10	-
2417MHz	Pass	AV	2.4204G	117.52	Inf	-Inf	3	Horizontal	65	1.10	-
2417MHz	Pass	PK	2.3866G	58.83	74.00	-15.17	3	Horizontal	65	1.10	-
2417MHz	Pass	PK	2.4202G	125.93	Inf	-Inf	3	Horizontal	65	1.10	-
2417MHz	Pass	AV	4.83418G	53.56	54.00	-0.44	3	Vertical	29	1.05	-
2417MHz	Pass	PK	4.83472G	65.00	74.00	-9.00	3	Vertical	29	1.05	-
2417MHz	Pass	AV	4.83406G	53.14	54.00	-0.86	3	Horizontal	27	1.32	-
2417MHz	Pass	PK	4.8346G	64.53	74.00	-9.47	3	Horizontal	27	1.32	-
2437MHz	Pass	AV	2.3886G	47.20	54.00	-6.80	3	Vertical	338	2.31	-
2437MHz	Pass	AV	2.4382G	110.97	Inf	-Inf	3	Vertical	338	2.31	-
2437MHz	Pass	AV	2.4926G	48.13	54.00	-5.87	3	Vertical	338	2.31	-
2437MHz	Pass	PK	2.3822G	60.12	74.00	-13.88	3	Vertical	338	2.31	-
2437MHz	Pass	PK	2.4382G	120.04	Inf	-Inf	3	Vertical	338	2.31	-
2437MHz	Pass	PK	2.499G	60.07	74.00	-13.93	3	Vertical	338	2.31	-
2437MHz	Pass	AV	2.3878G	47.32	54.00	-6.68	3	Horizontal	68	1.00	-
2437MHz	Pass	AV	2.4438G	114.47	Inf	-Inf	3	Horizontal	68	1.00	-
2437MHz	Pass	AV	2.4978G	48.33	54.00	-5.67	3	Horizontal	68	1.00	-
2437MHz	Pass	PK	2.3374G	59.61	74.00	-14.39	3	Horizontal	68	1.00	-
2437MHz	Pass	PK	2.4446G	124.39	Inf	-Inf	3	Horizontal	68	1.00	-
2437MHz	Pass	PK	2.4886G	60.57	74.00	-13.43	3	Horizontal	68	1.00	-
2437MHz	Pass	AV	4.87792G	52.67	54.00	-1.33	3	Vertical	39	1.55	-
2437MHz	Pass	PK	4.88432G	66.15	74.00	-7.85	3	Vertical	39	1.55	-
2437MHz	Pass	AV	4.87096G	53.35	54.00	-0.65	3	Horizontal	323	1.97	-
2437MHz	Pass	PK	4.87176G	67.13	74.00	-6.87	3	Horizontal	323	1.97	-
2462MHz	Pass	AV	2.4566G	107.85	Inf	-Inf	3	Vertical	114	1.41	-
2462MHz	Pass	AV	2.4846G	48.42	54.00	-5.58	3	Vertical	114	1.41	-
2462MHz	Pass	PK	2.4558G	117.90	Inf	-Inf	3	Vertical	114	1.41	-
2462MHz	Pass	PK	2.4848G	61.20	74.00	-12.80	3	Vertical	114	1.41	-
2462MHz	Pass	AV	2.4568G	114.72	Inf	-Inf	3	Horizontal	329	1.08	-
2462MHz	Pass	AV	2.4894G	48.45	54.00	-5.55	3	Horizontal	329	1.08	-
2462MHz	Pass	PK	2.4582G	124.54	Inf	-Inf	3	Horizontal	329	1.08	-
2462MHz	Pass	PK	2.4854G	60.88	74.00	-13.12	3	Horizontal	329	1.08	-
2462MHz	Pass	AV	4.92952G	52.67	54.00	-1.33	3	Vertical	337	3.00	-
2462MHz	Pass	PK	4.92992G	66.16	74.00	-7.84	3	Vertical	337	3.00	-
2462MHz	Pass	AV	4.92032G	53.71	54.00	-0.29	3	Horizontal	49	1.68	-
2462MHz	Pass	PK	4.92032G	66.67	74.00	-7.33	3	Horizontal	49	1.68	-
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	48.49	54.00	-5.51	3	Vertical	95	2.21	-
2412MHz	Pass	AV	2.4034G	110.00	Inf	-Inf	3	Vertical	95	2.21	-
2412MHz	Pass	PK	2.3898G	58.74	74.00	-15.26	3	Vertical	95	2.21	-
2412MHz	Pass	PK	2.404G	121.46	Inf	-Inf	3	Vertical	95	2.21	-
2412MHz	Pass	AV	2.39G	52.63	54.00	-1.37	3	Horizontal	38	1.00	-
2412MHz	Pass	AV	2.4106G	114.59	Inf	-Inf	3	Horizontal	38	1.00	-
2412MHz	Pass	PK	2.3898G	63.66	74.00	-10.34	3	Horizontal	38	1.00	-
2412MHz	Pass	PK	2.4108G	125.78	Inf	-Inf	3	Horizontal	38	1.00	-
2412MHz	Pass	AV	4.83152G	51.81	54.00	-2.19	3	Vertical	17	1.10	-
2412MHz	Pass	PK	4.83104G	65.24	74.00	-8.76	3	Vertical	17	1.10	-
2412MHz	Pass	AV	4.82392G	52.21	54.00	-1.79	3	Horizontal	29	1.17	-
2412MHz	Pass	PK	4.82472G	63.08	74.00	-10.92	3	Horizontal	29	1.17	-
2417MHz	Pass	AV	2.39G	48.06	54.00	-5.94	3	Vertical	14	2.86	-
2417MHz	Pass	AV	2.4112G	113.94	Inf	-Inf	3	Vertical	14	2.86	-
2417MHz	Pass	PK	2.3688G	58.73	74.00	-15.27	3	Vertical	14	2.86	-
2417MHz	Pass	PK	2.4116G	125.10	Inf	-Inf	3	Vertical	14	2.86	-



RSE TX above 1GHz Non-Beamforming

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2417MHz	Pass	AV	2.39G	46.87	54.00	-7.13	3	Horizontal	85	1.21	-
2417MHz	Pass	AV	2.4134G	114.05	Inf	-Inf	3	Horizontal	85	1.21	-
2417MHz	Pass	PK	2.381G	59.35	74.00	-14.65	3	Horizontal	85	1.21	-
2417MHz	Pass	PK	2.412G	125.30	Inf	-Inf	3	Horizontal	85	1.21	-
2417MHz	Pass	AV	4.83388G	53.66	54.00	-0.34	3	Vertical	28	1.16	-
2417MHz	Pass	PK	4.8331G	66.69	74.00	-7.31	3	Vertical	28	1.16	-
2417MHz	Pass	AV	4.83364G	52.66	54.00	-1.34	3	Horizontal	24	1.09	-
2417MHz	Pass	PK	4.83352G	64.68	74.00	-9.32	3	Horizontal	24	1.09	-
2437MHz	Pass	AV	2.3862G	47.07	54.00	-6.93	3	Vertical	336	2.42	-
2437MHz	Pass	AV	2.4386G	110.81	Inf	-Inf	3	Vertical	336	2.42	-
2437MHz	Pass	AV	2.4978G	47.85	54.00	-6.15	3	Vertical	336	2.42	-
2437MHz	Pass	PK	2.3818G	59.57	74.00	-14.43	3	Vertical	336	2.42	-
2437MHz	Pass	PK	2.4394G	123.98	Inf	-Inf	3	Vertical	336	2.42	-
2437MHz	Pass	PK	2.4982G	59.35	74.00	-14.65	3	Vertical	336	2.42	-
2437MHz	Pass	AV	2.3894G	47.01	54.00	-6.99	3	Horizontal	43	1.00	-
2437MHz	Pass	AV	2.439G	114.16	Inf	-Inf	3	Horizontal	43	1.00	-
2437MHz	Pass	AV	2.4902G	47.85	54.00	-6.15	3	Horizontal	43	1.00	-
2437MHz	Pass	PK	2.3806G	59.17	74.00	-14.83	3	Horizontal	43	1.00	-
2437MHz	Pass	PK	2.4394G	127.94	Inf	-Inf	3	Horizontal	43	1.00	-
2437MHz	Pass	PK	2.4926G	60.00	74.00	-14.00	3	Horizontal	43	1.00	-
2437MHz	Pass	AV	4.86352G	51.55	54.00	-2.45	3	Vertical	46	1.47	-
2437MHz	Pass	PK	4.86344G	67.53	74.00	-6.47	3	Vertical	46	1.47	-
2437MHz	Pass	AV	4.87408G	53.92	54.00	-0.08	3	Horizontal	321	1.94	-
2437MHz	Pass	PK	4.88376G	70.65	74.00	-3.35	3	Horizontal	321	1.94	-
2457MHz	Pass	AV	2.454G	109.93	Inf	-Inf	3	Vertical	27	2.54	-
2457MHz	Pass	AV	2.4948G	47.87	54.00	-6.13	3	Vertical	27	2.54	-
2457MHz	Pass	PK	2.4546G	122.85	Inf	-Inf	3	Vertical	27	2.54	-
2457MHz	Pass	PK	2.4842G	60.44	74.00	-13.56	3	Vertical	27	2.54	-
2457MHz	Pass	AV	2.4526G	113.59	Inf	-Inf	3	Horizontal	314	1.18	-
2457MHz	Pass	AV	2.492G	47.93	54.00	-6.07	3	Horizontal	314	1.18	-
2457MHz	Pass	PK	2.4518G	127.80	Inf	-Inf	3	Horizontal	314	1.18	-
2457MHz	Pass	PK	2.4882G	60.88	74.00	-13.12	3	Horizontal	314	1.18	-
2457MHz	Pass	AV	4.91088G	53.68	54.00	-0.32	3	Vertical	43	1.89	-
2457MHz	Pass	PK	4.91152G	67.98	74.00	-6.02	3	Vertical	43	1.89	-
2457MHz	Pass	AV	4.91704G	52.42	54.00	-1.58	3	Horizontal	315	1.76	-
2457MHz	Pass	PK	4.91736G	69.30	74.00	-4.70	3	Horizontal	315	1.76	-
2462MHz	Pass	AV	2.4602G	107.36	Inf	-Inf	3	Vertical	183	1.50	-
2462MHz	Pass	AV	2.4835G	48.29	54.00	-5.71	3	Vertical	183	1.50	-
2462MHz	Pass	PK	2.4596G	120.35	Inf	-Inf	3	Vertical	183	1.50	-
2462MHz	Pass	PK	2.4888G	60.39	74.00	-13.61	3	Vertical	183	1.50	-
2462MHz	Pass	AV	2.4552G	114.19	Inf	-Inf	3	Horizontal	66	1.21	-
2462MHz	Pass	AV	2.4842G	50.76	54.00	-3.24	3	Horizontal	66	1.21	-
2462MHz	Pass	PK	2.454G	127.19	Inf	-Inf	3	Horizontal	66	1.21	-
2462MHz	Pass	PK	2.4846G	65.05	74.00	-8.95	3	Horizontal	66	1.21	-
2462MHz	Pass	AV	4.9208G	53.54	54.00	-0.46	3	Vertical	42	1.87	-
2462MHz	Pass	PK	4.92136G	68.00	74.00	-6.00	3	Vertical	42	1.87	-
2462MHz	Pass	AV	4.92688G	51.82	54.00	-2.18	3	Horizontal	315	1.68	-
2462MHz	Pass	PK	4.91992G	68.72	74.00	-5.28	3	Horizontal	315	1.68	-
802.11ax HEW40_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.38G	50.30	54.00	-3.70	3	Vertical	67	1.78	-
2422MHz	Pass	AV	2.42G	106.49	Inf	-Inf	3	Vertical	67	1.78	-
2422MHz	Pass	AV	2.4992G	47.43	54.00	-6.57	3	Vertical	67	1.78	-
2422MHz	Pass	PK	2.3808G	63.07	74.00	-10.93	3	Vertical	67	1.78	-
2422MHz	Pass	PK	2.4188G	117.49	Inf	-Inf	3	Vertical	67	1.78	-
2422MHz	Pass	PK	2.4932G	59.55	74.00	-14.45	3	Vertical	67	1.78	-
2422MHz	Pass	AV	2.3728G	51.97	54.00	-2.03	3	Horizontal	45	1.74	-
2422MHz	Pass	AV	2.4336G	112.54	Inf	-Inf	3	Horizontal	45	1.74	-
2422MHz	Pass	AV	2.486G	47.67	54.00	-6.33	3	Horizontal	45	1.74	-
2422MHz	Pass	PK	2.3728G	66.29	74.00	-7.71	3	Horizontal	45	1.74	-
2422MHz	Pass	PK	2.4148G	123.59	Inf	-Inf	3	Horizontal	45	1.74	-
2422MHz	Pass	PK	2.4884G	59.54	74.00	-14.46	3	Horizontal	45	1.74	-
2422MHz	Pass	AV	4.84376G	50.92	54.00	-3.08	3	Vertical	32	1.10	-



RSE TX above 1GHz Non-Beamforming

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2422MHz	Pass	PK	4.844G	63.86	74.00	-10.14	3	Vertical	32	1.10	-
2422MHz	Pass	AV	4.84904G	51.85	54.00	-2.15	3	Horizontal	40	2.13	-
2422MHz	Pass	PK	4.84892G	64.42	74.00	-9.58	3	Horizontal	40	2.13	-
2427MHz	Pass	AV	2.3898G	47.43	54.00	-6.57	3	Vertical	335	2.38	-
2427MHz	Pass	AV	2.4286G	107.00	Inf	-Inf	3	Vertical	335	2.38	-
2427MHz	Pass	AV	2.4882G	47.91	54.00	-6.09	3	Vertical	335	2.38	-
2427MHz	Pass	PK	2.3898G	59.84	74.00	-14.16	3	Vertical	335	2.38	-
2427MHz	Pass	PK	2.4286G	119.42	Inf	-Inf	3	Vertical	335	2.38	-
2427MHz	Pass	PK	2.4978G	60.13	74.00	-13.87	3	Vertical	335	2.38	-
2427MHz	Pass	AV	2.3802G	47.75	54.00	-6.25	3	Horizontal	65	1.22	-
2427MHz	Pass	AV	2.4202G	111.20	Inf	-Inf	3	Horizontal	65	1.22	-
2427MHz	Pass	AV	2.4874G	47.91	54.00	-6.09	3	Horizontal	65	1.22	-
2427MHz	Pass	PK	2.3806G	59.80	74.00	-14.20	3	Horizontal	65	1.22	-
2427MHz	Pass	PK	2.4194G	124.34	Inf	-Inf	3	Horizontal	65	1.22	-
2427MHz	Pass	PK	2.4966G	60.11	74.00	-13.89	3	Horizontal	65	1.22	-
2427MHz	Pass	AV	4.83976G	53.09	54.00	-0.91	3	Vertical	309	1.98	-
2427MHz	Pass	PK	4.83944G	67.13	74.00	-6.87	3	Vertical	309	1.98	-
2427MHz	Pass	AV	4.85288G	48.93	54.00	-5.07	3	Horizontal	323	1.32	-
2427MHz	Pass	PK	4.83224G	64.97	74.00	-9.03	3	Horizontal	323	1.32	-
2437MHz	Pass	AV	2.3894G	47.32	54.00	-6.68	3	Vertical	337	2.31	-
2437MHz	Pass	AV	2.4386G	108.57	Inf	-Inf	3	Vertical	337	2.31	-
2437MHz	Pass	AV	2.4854G	48.37	54.00	-5.63	3	Vertical	337	2.31	-
2437MHz	Pass	PK	2.3898G	59.74	74.00	-14.26	3	Vertical	337	2.31	-
2437MHz	Pass	PK	2.4382G	122.09	Inf	-Inf	3	Vertical	337	2.31	-
2437MHz	Pass	PK	2.4894G	61.42	74.00	-12.58	3	Vertical	337	2.31	-
2437MHz	Pass	AV	2.3898G	48.46	54.00	-5.54	3	Horizontal	66	1.08	-
2437MHz	Pass	AV	2.4298G	112.67	Inf	-Inf	3	Horizontal	66	1.08	-
2437MHz	Pass	AV	2.4882G	50.85	54.00	-3.15	3	Horizontal	66	1.08	-
2437MHz	Pass	PK	2.3898G	60.66	74.00	-13.34	3	Horizontal	66	1.08	-
2437MHz	Pass	PK	2.4306G	124.81	Inf	-Inf	3	Horizontal	66	1.08	-
2437MHz	Pass	PK	2.4886G	65.04	74.00	-8.96	3	Horizontal	66	1.08	-
2437MHz	Pass	AV	4.87928G	53.35	54.00	-0.65	3	Vertical	311	1.92	-
2437MHz	Pass	PK	4.87816G	66.84	74.00	-7.16	3	Vertical	311	1.92	-
2437MHz	Pass	AV	4.8732G	51.05	54.00	-2.95	3	Horizontal	324	1.87	-
2437MHz	Pass	PK	4.87144G	66.45	74.00	-7.55	3	Horizontal	324	1.87	-
2447MHz	Pass	AV	2.3882G	47.12	54.00	-6.88	3	Vertical	332	2.39	-
2447MHz	Pass	AV	2.4482G	107.43	Inf	-Inf	3	Vertical	332	2.39	-
2447MHz	Pass	AV	2.4874G	50.57	54.00	-3.43	3	Vertical	332	2.39	-
2447MHz	Pass	PK	2.377G	59.70	74.00	-14.30	3	Vertical	332	2.39	-
2447MHz	Pass	PK	2.4482G	119.62	Inf	-Inf	3	Vertical	332	2.39	-
2447MHz	Pass	PK	2.487G	63.70	74.00	-10.30	3	Vertical	332	2.39	-
2447MHz	Pass	AV	2.381G	46.99	54.00	-7.01	3	Horizontal	316	1.50	-
2447MHz	Pass	AV	2.443G	110.20	Inf	-Inf	3	Horizontal	316	1.50	-
2447MHz	Pass	AV	2.4854G	52.41	54.00	-1.59	3	Horizontal	316	1.50	-
2447MHz	Pass	PK	2.3806G	59.37	74.00	-14.63	3	Horizontal	316	1.50	-
2447MHz	Pass	PK	2.4434G	122.17	Inf	-Inf	3	Horizontal	316	1.50	-
2447MHz	Pass	PK	2.4854G	66.28	74.00	-7.72	3	Horizontal	316	1.50	-
2447MHz	Pass	AV	4.88024G	49.83	54.00	-4.17	3	Vertical	314	1.99	-
2447MHz	Pass	PK	4.88072G	64.16	74.00	-9.84	3	Vertical	314	1.99	-
2447MHz	Pass	AV	4.8828G	49.24	54.00	-4.76	3	Horizontal	318	1.82	-
2447MHz	Pass	PK	4.8824G	65.09	74.00	-8.91	3	Horizontal	318	1.82	-
2452MHz	Pass	AV	2.39G	46.61	54.00	-7.39	3	Vertical	18	2.52	-
2452MHz	Pass	AV	2.4528G	107.75	Inf	-Inf	3	Vertical	18	2.52	-
2452MHz	Pass	AV	2.4916G	49.71	54.00	-4.29	3	Vertical	18	2.52	-
2452MHz	Pass	PK	2.3612G	59.01	74.00	-14.99	3	Vertical	18	2.52	-
2452MHz	Pass	PK	2.4396G	119.38	Inf	-Inf	3	Vertical	18	2.52	-
2452MHz	Pass	PK	2.4868G	62.10	74.00	-11.90	3	Vertical	18	2.52	-
2452MHz	Pass	AV	2.382G	46.78	54.00	-7.22	3	Horizontal	73	2.24	-
2452MHz	Pass	AV	2.4424G	112.83	Inf	-Inf	3	Horizontal	73	2.24	-
2452MHz	Pass	AV	2.4835G	53.15	54.00	-0.85	3	Horizontal	73	2.24	-
2452MHz	Pass	PK	2.3832G	58.34	74.00	-15.66	3	Horizontal	73	2.24	-
2452MHz	Pass	PK	2.442G	123.96	Inf	-Inf	3	Horizontal	73	2.24	-



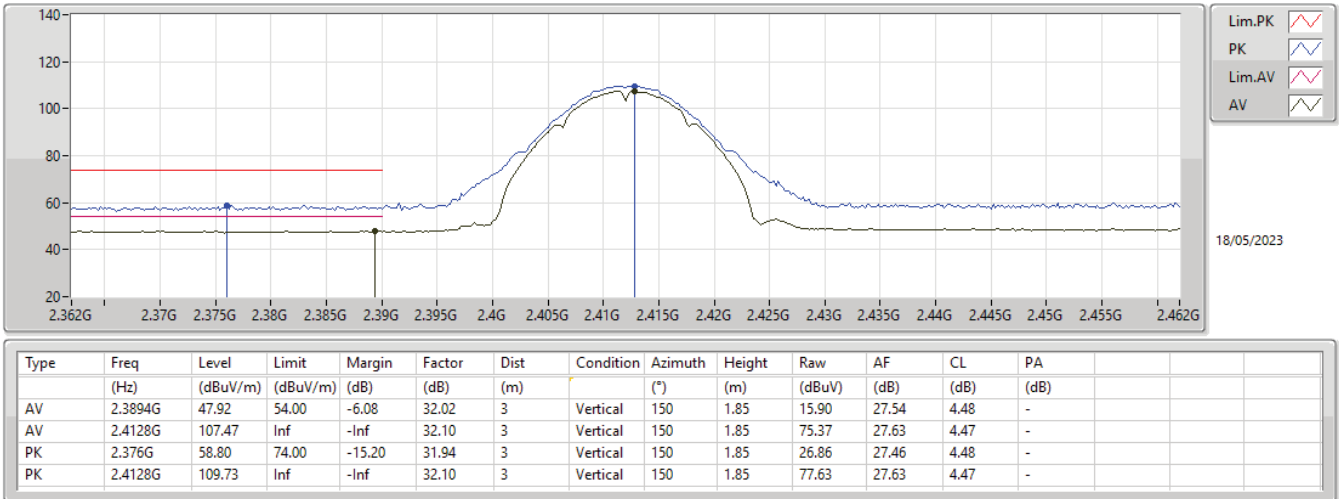
RSE TX above 1GHz _Non-Beamforming

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2452MHz	Pass	PK	2.4844G	65.09	74.00	-8.91	3	Horizontal	73	2.24	-
2452MHz	Pass	AV	4.90424G	47.74	54.00	-6.26	3	Vertical	21	1.47	-
2452MHz	Pass	PK	4.90352G	60.35	74.00	-13.65	3	Vertical	21	1.47	-
2452MHz	Pass	AV	4.90796G	46.85	54.00	-7.15	3	Horizontal	43	2.00	-
2452MHz	Pass	PK	4.9082G	60.49	74.00	-13.51	3	Horizontal	43	2.00	-

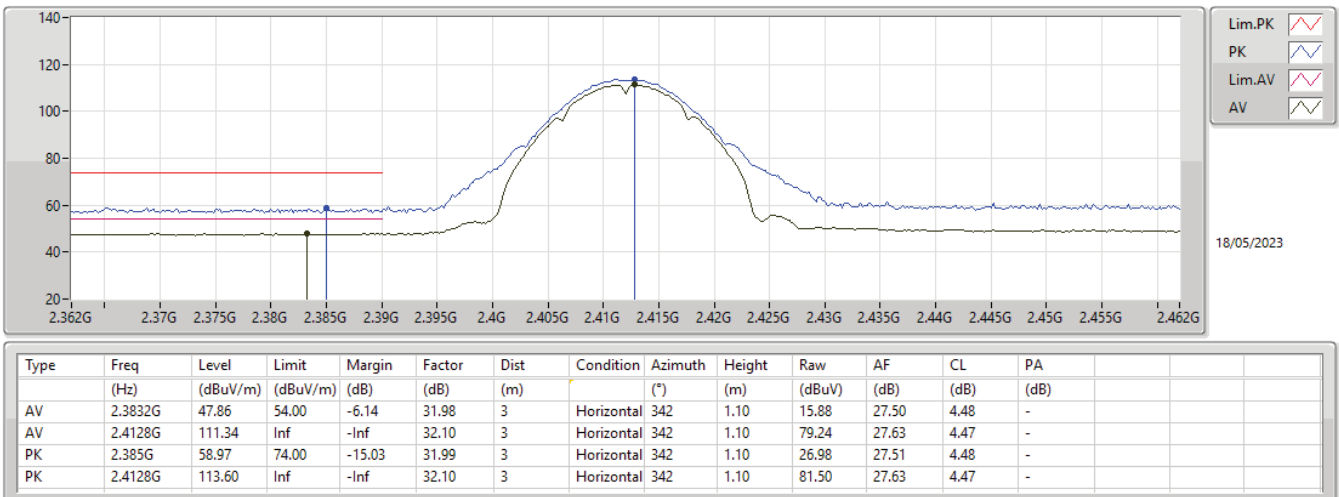
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2412MHz_TX



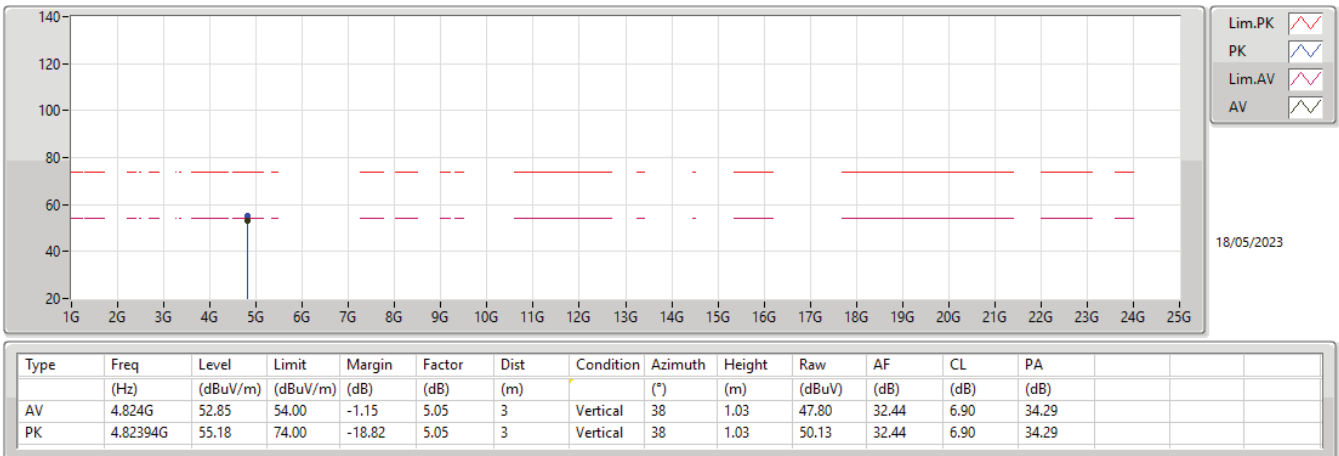
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2412MHz_TX



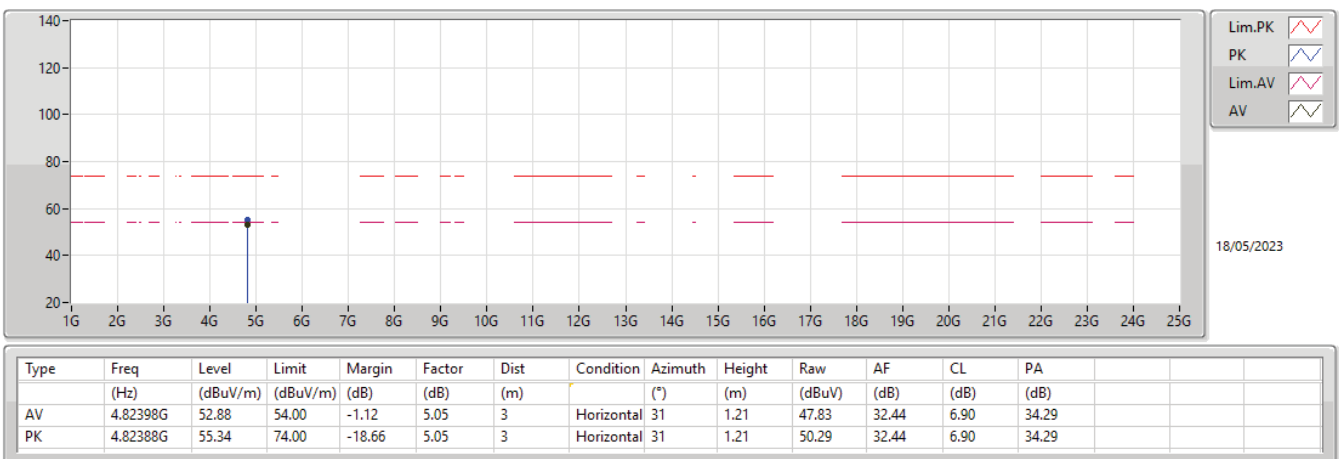
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2412MHz_TX



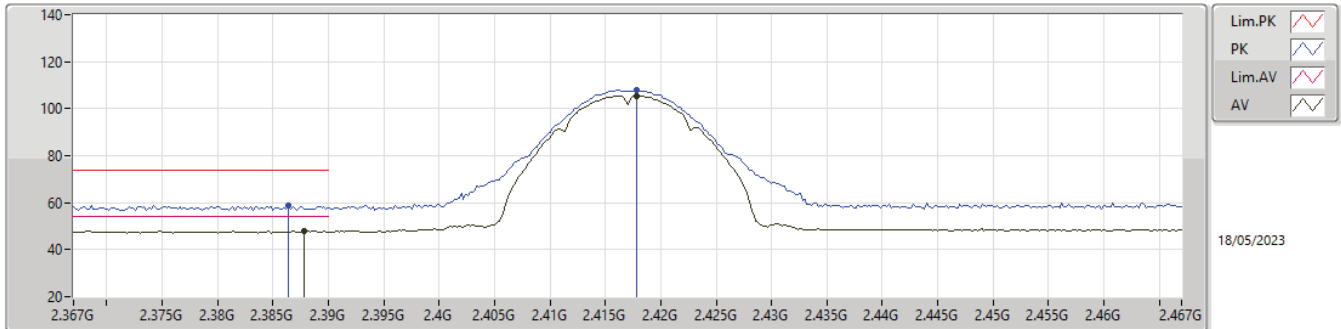
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2412MHz_TX



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

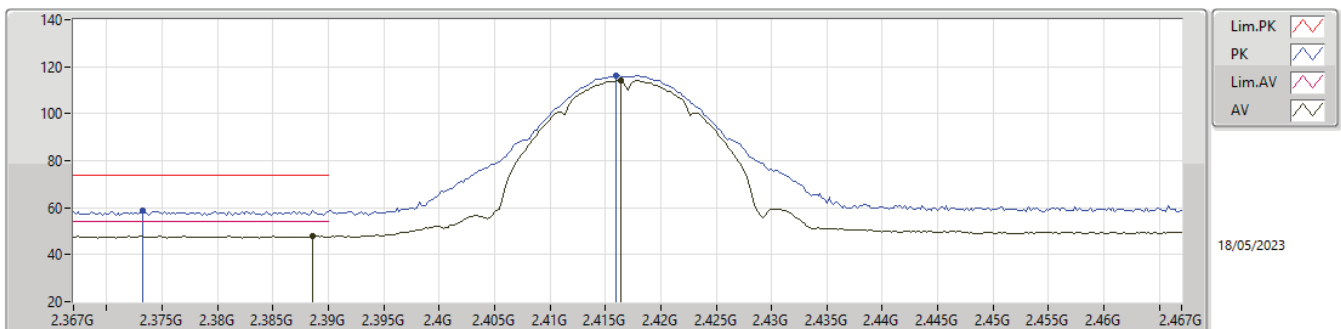
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3878G	47.90	54.00	-6.10	32.01	3	Vertical	153	2.15	15.89	27.53	4.48	-
AV	2.4178G	105.60	Inf	-Inf	32.11	3	Vertical	153	2.15	73.49	27.64	4.47	-
PK	2.3864G	58.80	74.00	-15.20	32.00	3	Vertical	153	2.15	26.80	27.52	4.48	-
PK	2.4178G	107.84	Inf	-Inf	32.11	3	Vertical	153	2.15	75.73	27.64	4.47	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

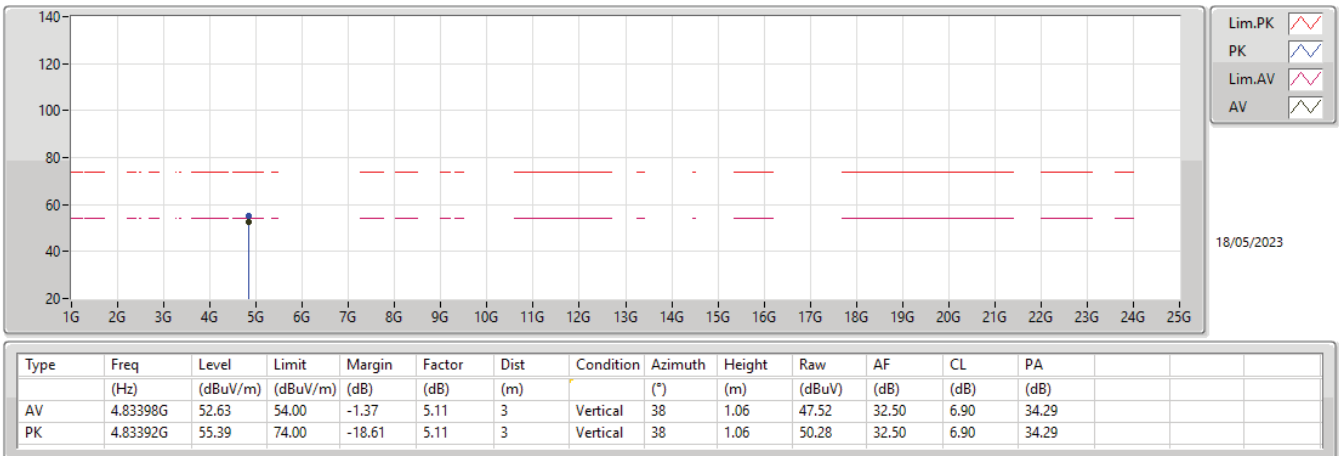
2417MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3886G	47.91	54.00	-6.09	32.01	3	Horizontal	37	1.07	15.90	27.53	4.48	-
AV	2.4164G	114.04	Inf	-Inf	32.10	3	Horizontal	37	1.07	81.94	27.63	4.47	-
PK	2.3732G	59.04	74.00	-14.96	31.93	3	Horizontal	37	1.07	27.11	27.44	4.49	-
PK	2.416G	116.33	Inf	-Inf	32.10	3	Horizontal	37	1.07	84.23	27.63	4.47	-

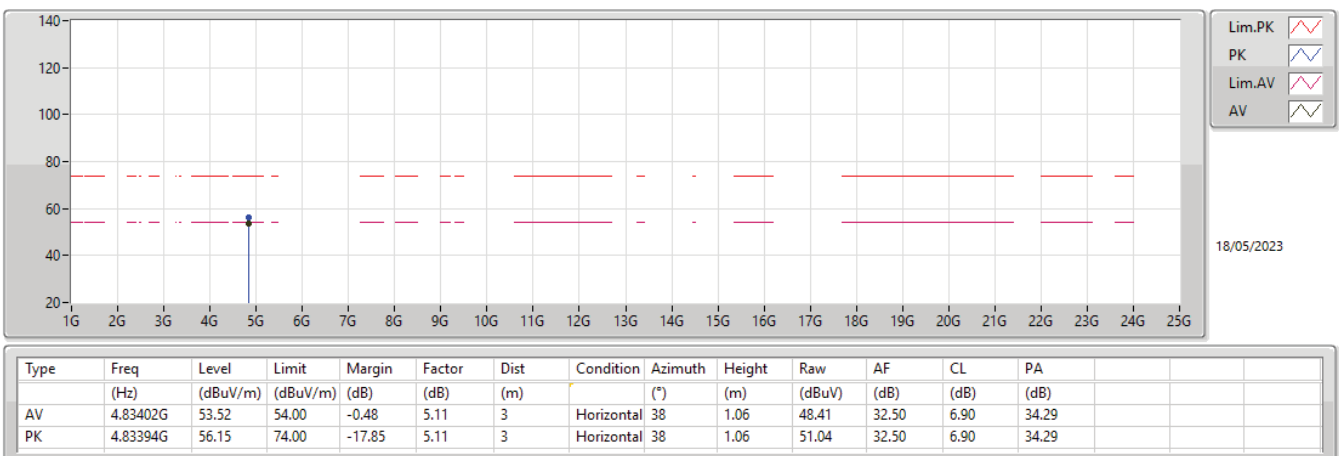
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

2417MHz_TX



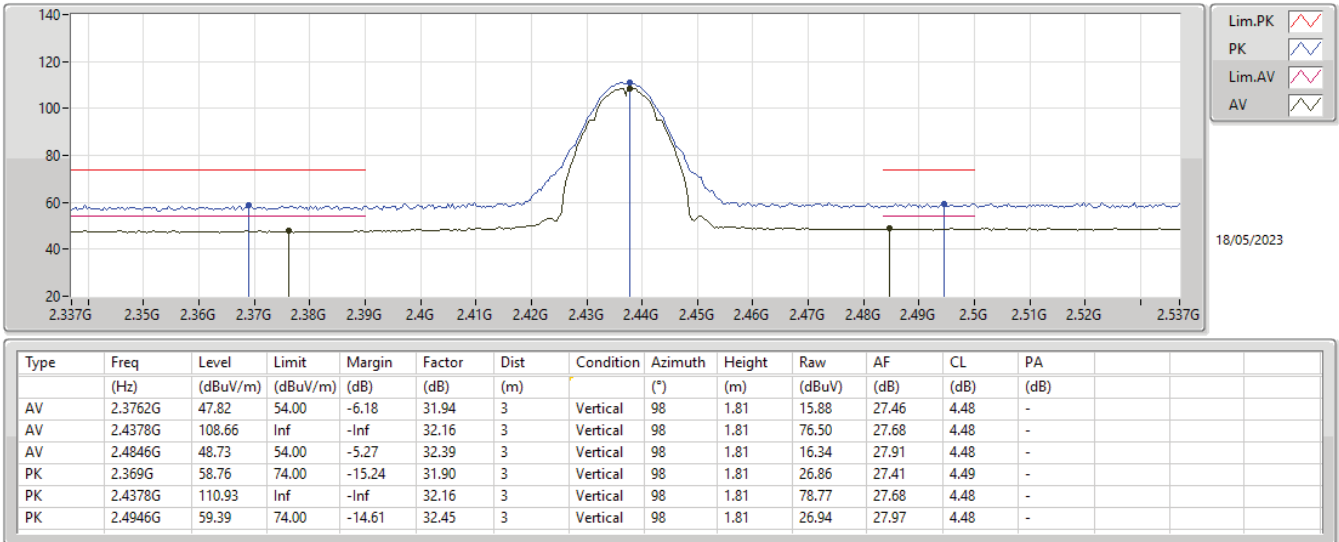
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

2417MHz_TX



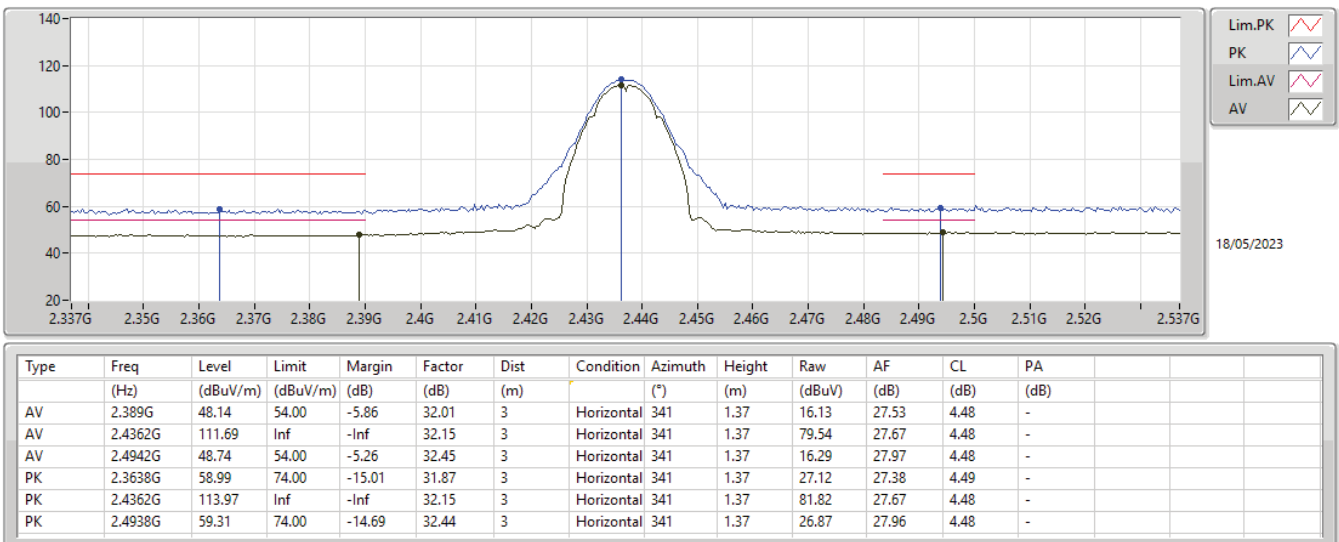
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX



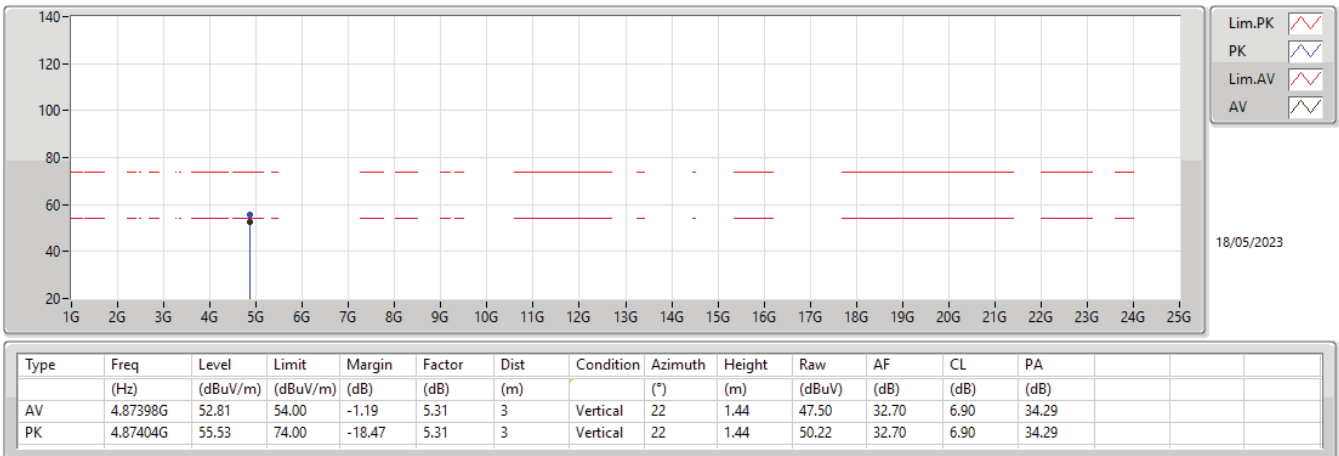
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX



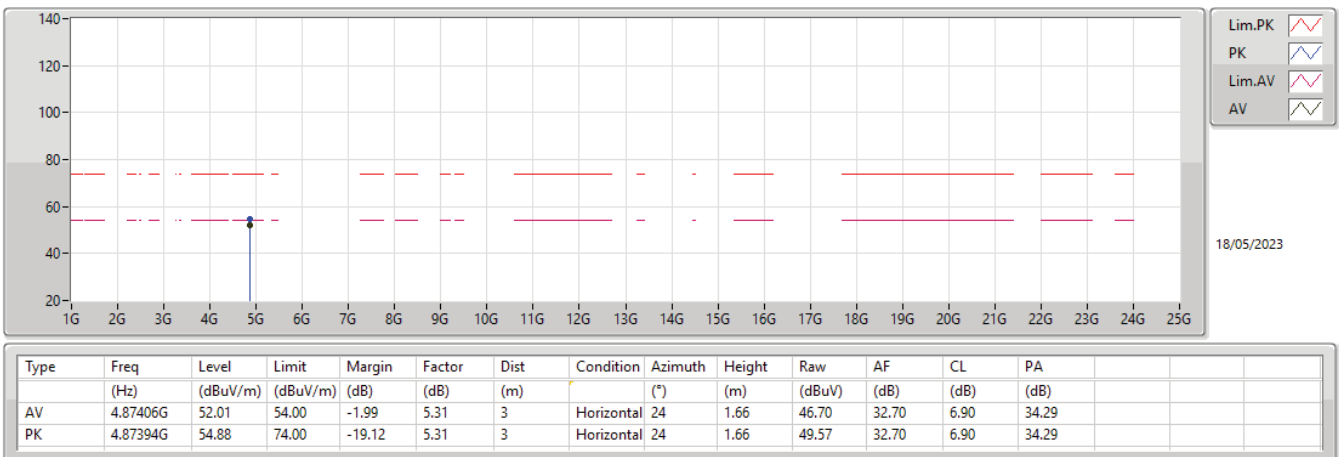
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX



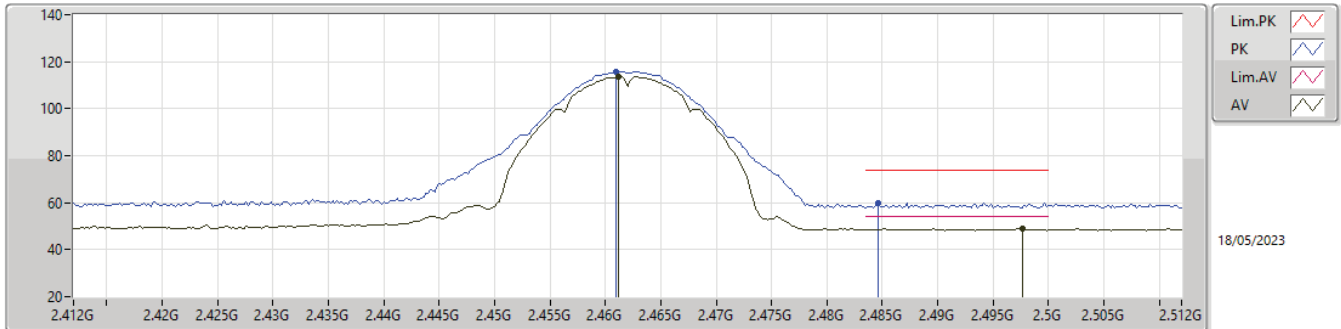
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

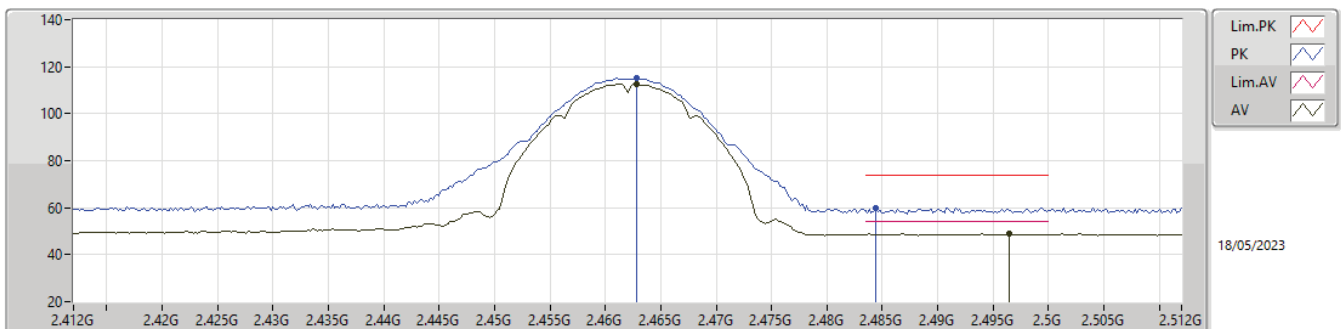
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4612G	113.60	Inf	-Inf	32.25	3	Vertical	22	2.76	81.35	27.77	4.48	-
AV	2.4976G	48.75	54.00	-5.25	32.47	3	Vertical	22	2.76	16.28	27.99	4.48	-
PK	2.461G	115.87	Inf	-Inf	32.25	3	Vertical	22	2.76	83.62	27.77	4.48	-
PK	2.4846G	60.02	74.00	-13.98	32.39	3	Vertical	22	2.76	27.63	27.91	4.48	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

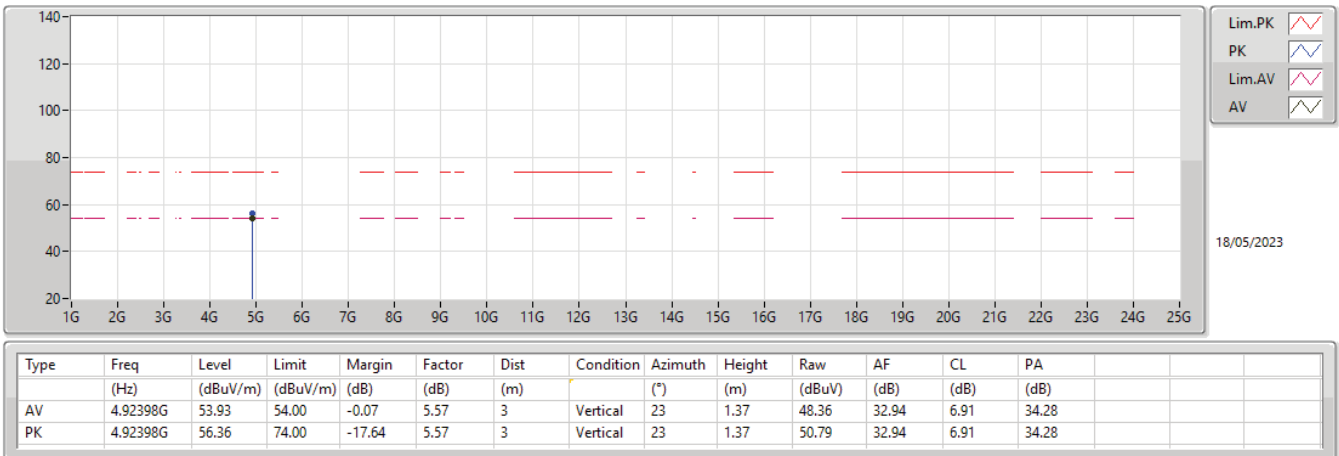


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4628G	112.67	Inf	-Inf	32.26	3	Horizontal	37	2.74	80.41	27.78	4.48	-
AV	2.4964G	48.74	54.00	-5.26	32.46	3	Horizontal	37	2.74	16.28	27.98	4.48	-
PK	2.4628G	114.97	Inf	-Inf	32.26	3	Horizontal	37	2.74	82.71	27.78	4.48	-
PK	2.4844G	60.02	74.00	-13.98	32.39	3	Horizontal	37	2.74	27.63	27.91	4.48	-



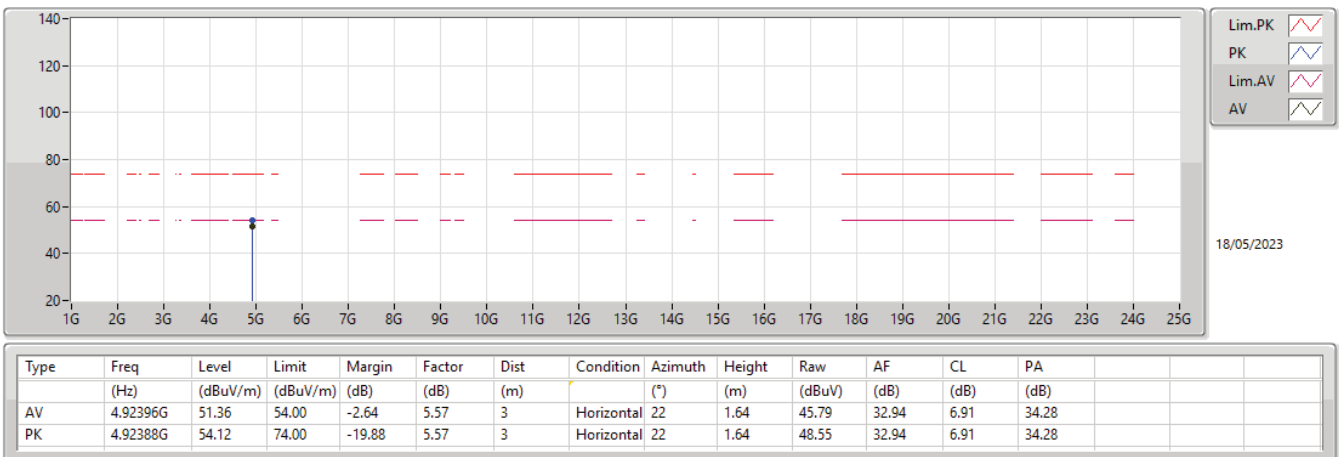
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX



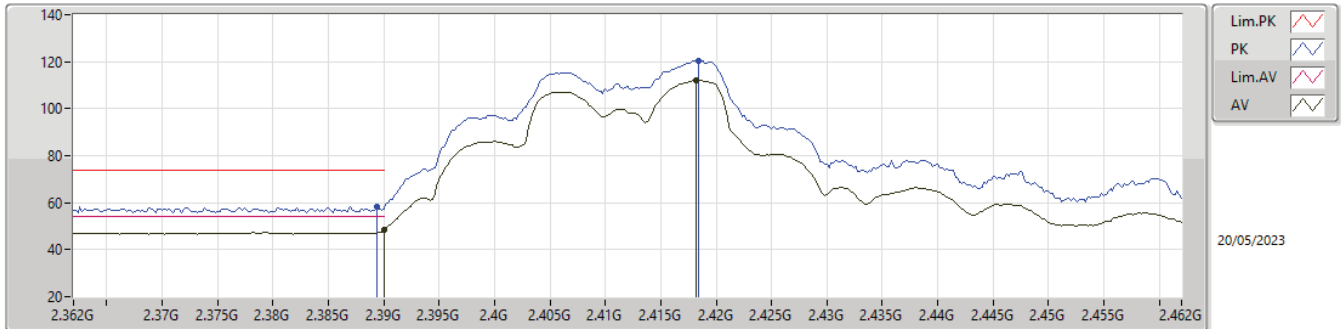
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

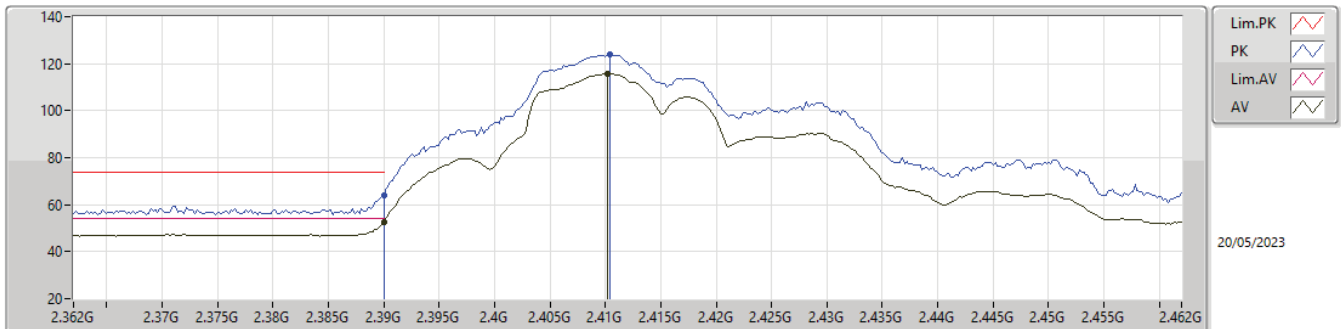
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	48.28	54.00	-5.72	32.02	3	Vertical	29	2.20	16.26	27.54	4.48	-
AV	2.4182G	111.89	Inf	-Inf	32.11	3	Vertical	29	2.20	79.78	27.64	4.47	-
PK	2.3894G	58.34	74.00	-15.66	32.02	3	Vertical	29	2.20	26.32	27.54	4.48	-
PK	2.4184G	120.50	Inf	-Inf	32.11	3	Vertical	29	2.20	88.39	27.64	4.47	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

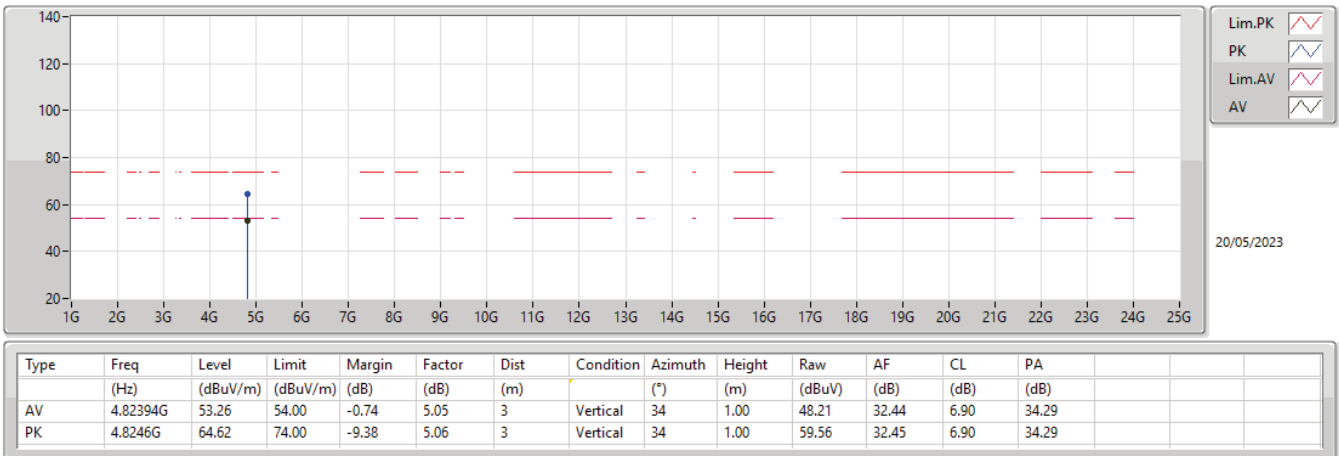
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.63	54.00	-1.37	32.02	3	Horizontal	45	1.00	20.61	27.54	4.48	-
AV	2.4102G	115.50	Inf	-Inf	32.09	3	Horizontal	45	1.00	83.41	27.62	4.47	-
PK	2.39G	63.99	74.00	-10.01	32.02	3	Horizontal	45	1.00	31.97	27.54	4.48	-
PK	2.4104G	124.17	Inf	-Inf	32.09	3	Horizontal	45	1.00	92.08	27.62	4.47	-

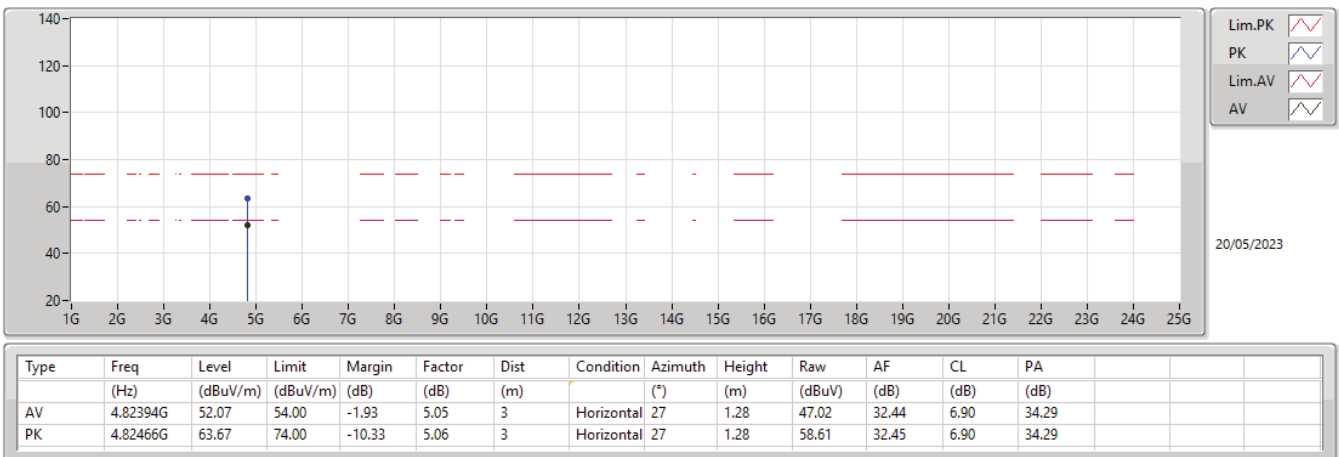
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX



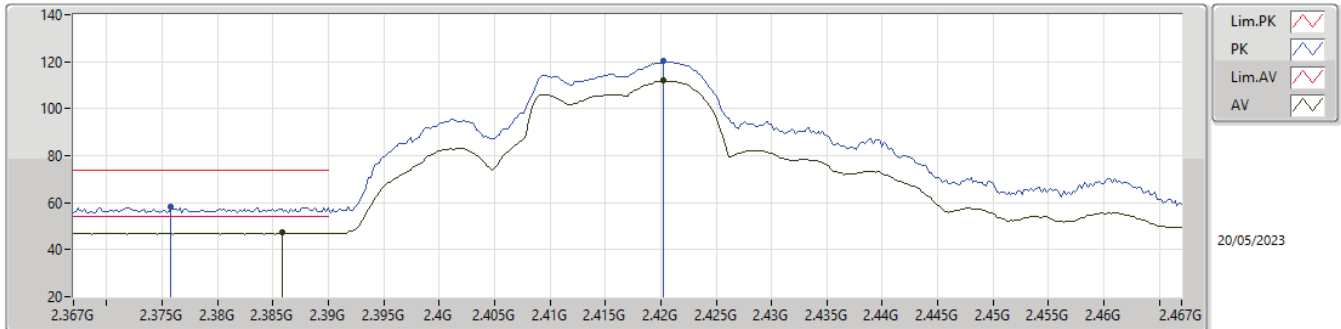
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

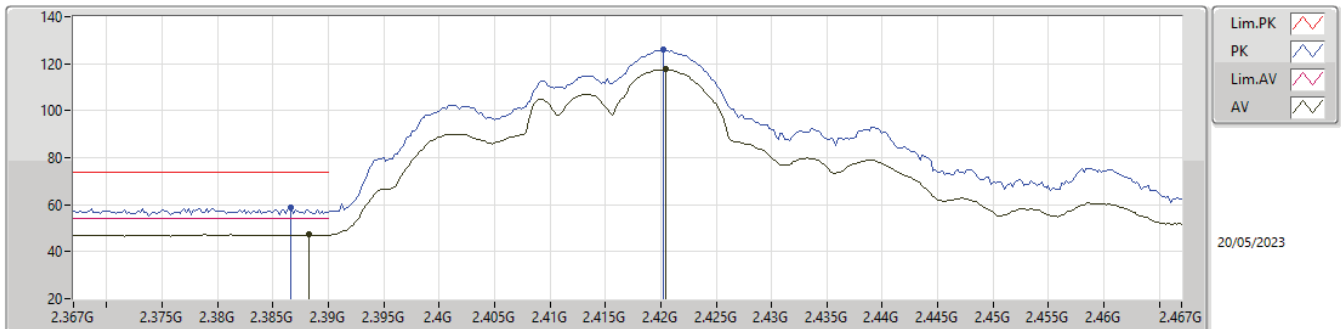
2417MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3858G	47.31	54.00	-6.69	31.99	3	Vertical	103	2.69	15.32	27.51	4.48	-
AV	2.4202G	111.89	Inf	-Inf	32.11	3	Vertical	103	2.69	79.78	27.64	4.47	-
PK	2.3758G	58.50	74.00	-15.50	31.93	3	Vertical	103	2.69	26.57	27.45	4.48	-
PK	2.4202G	120.15	Inf	-Inf	32.11	3	Vertical	103	2.69	88.04	27.64	4.47	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

2417MHz_TX

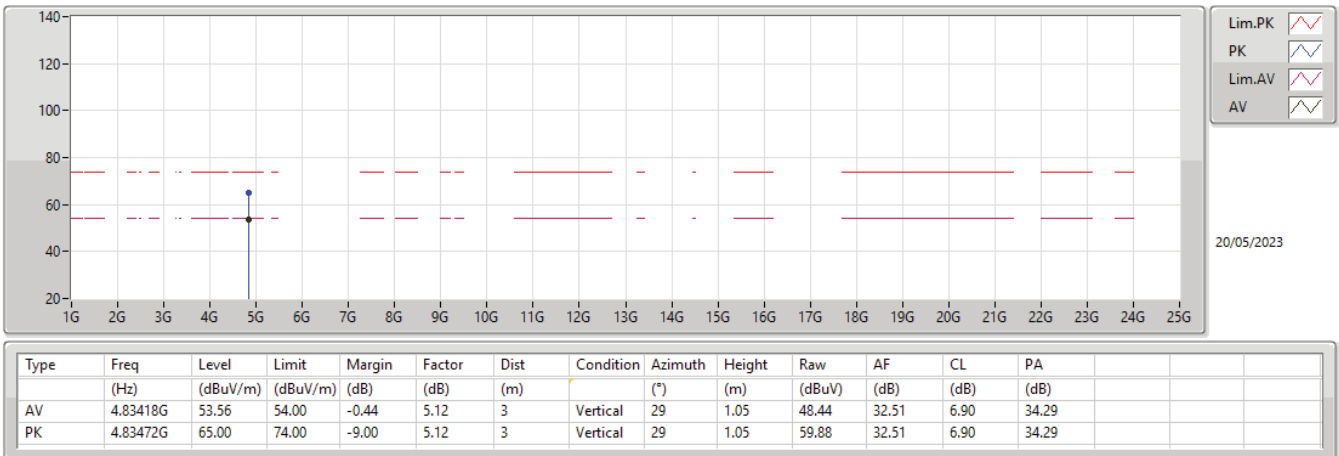


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3882G	47.34	54.00	-6.66	32.01	3	Horizontal	65	1.10	15.33	27.53	4.48	-
AV	2.4204G	117.52	Inf	-Inf	32.11	3	Horizontal	65	1.10	85.41	27.64	4.47	-
PK	2.3866G	58.83	74.00	-15.17	32.00	3	Horizontal	65	1.10	26.83	27.52	4.48	-
PK	2.4202G	125.93	Inf	-Inf	32.11	3	Horizontal	65	1.10	93.82	27.64	4.47	-



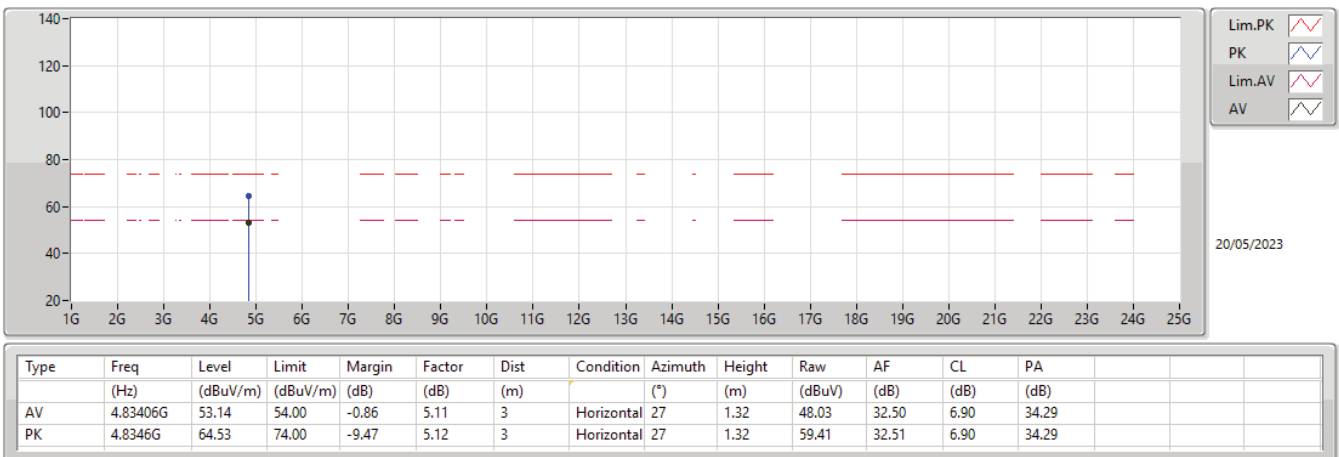
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

2417MHz_TX



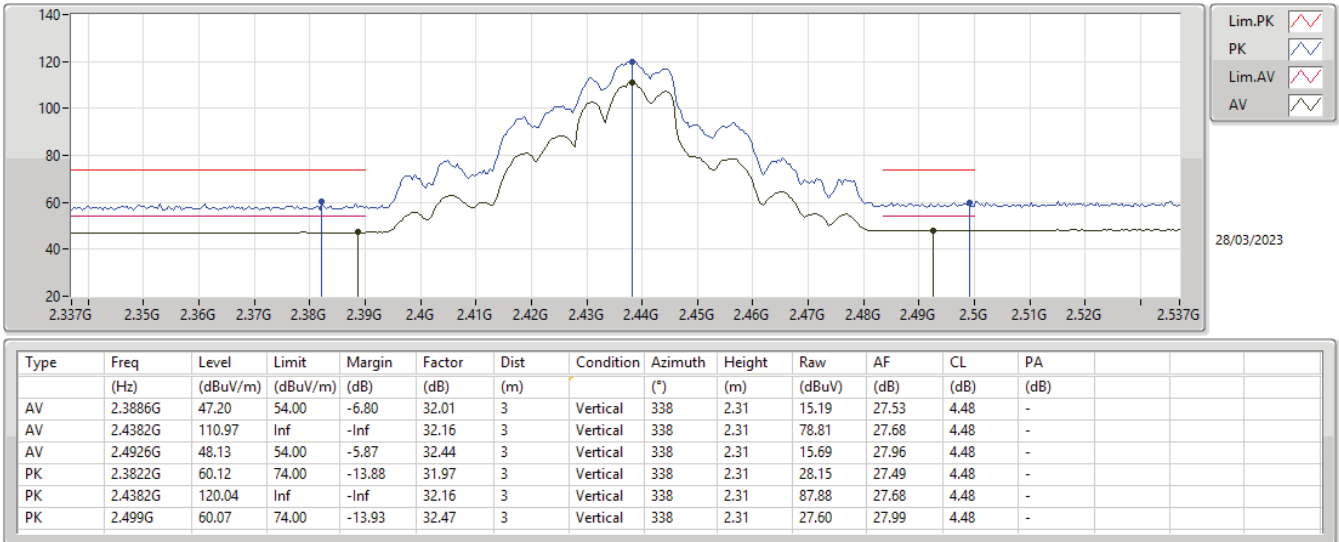
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

2417MHz_TX



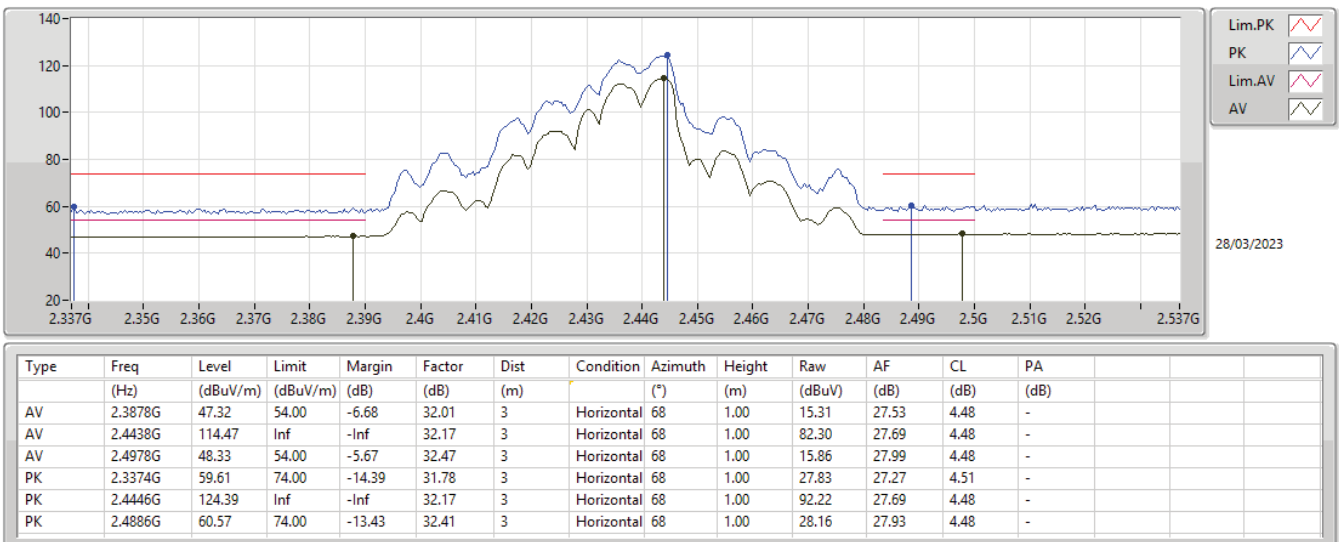
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX



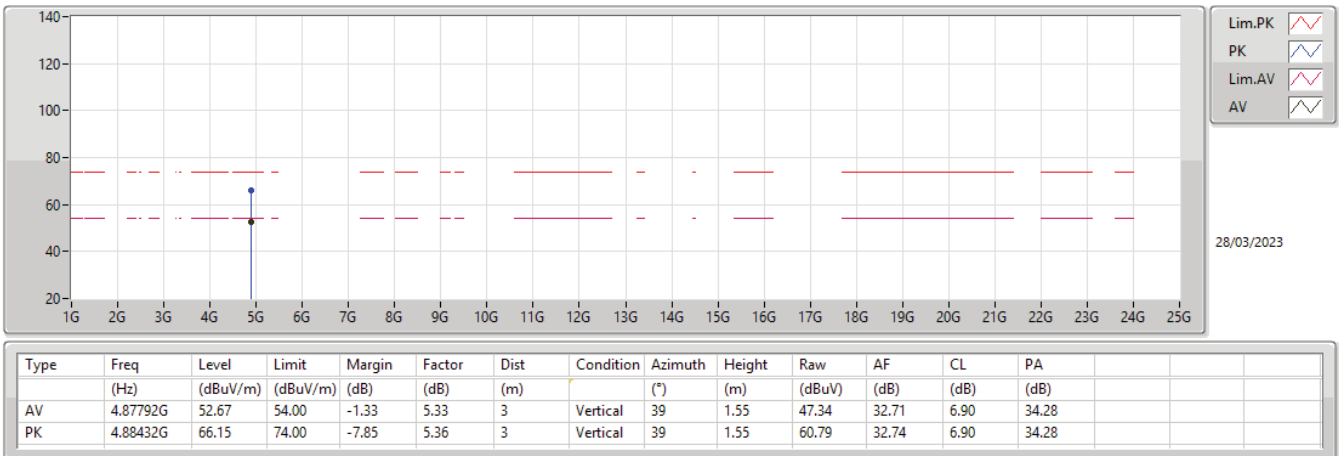
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX



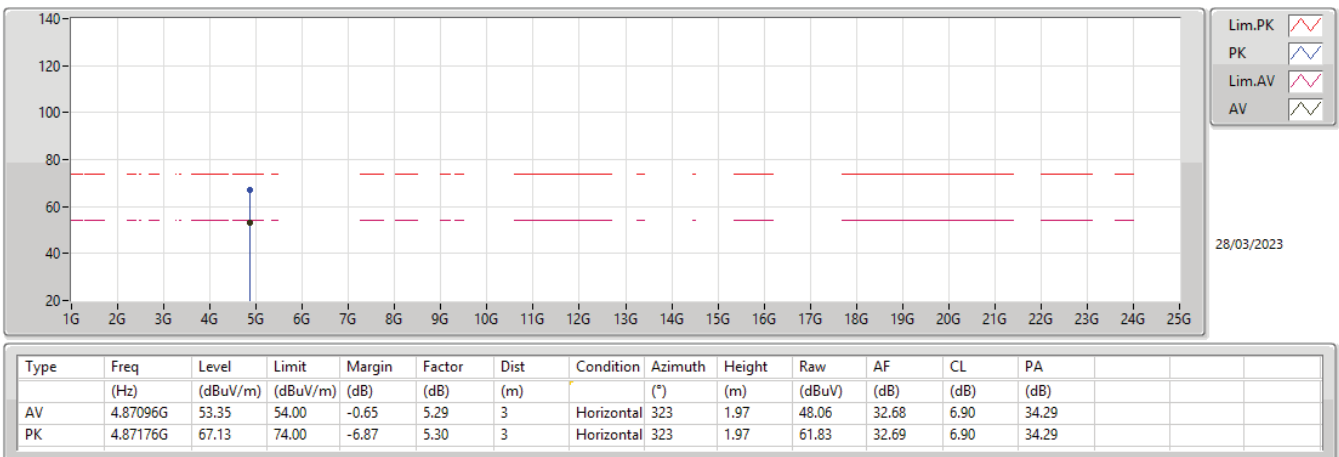
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2437MHz_TX



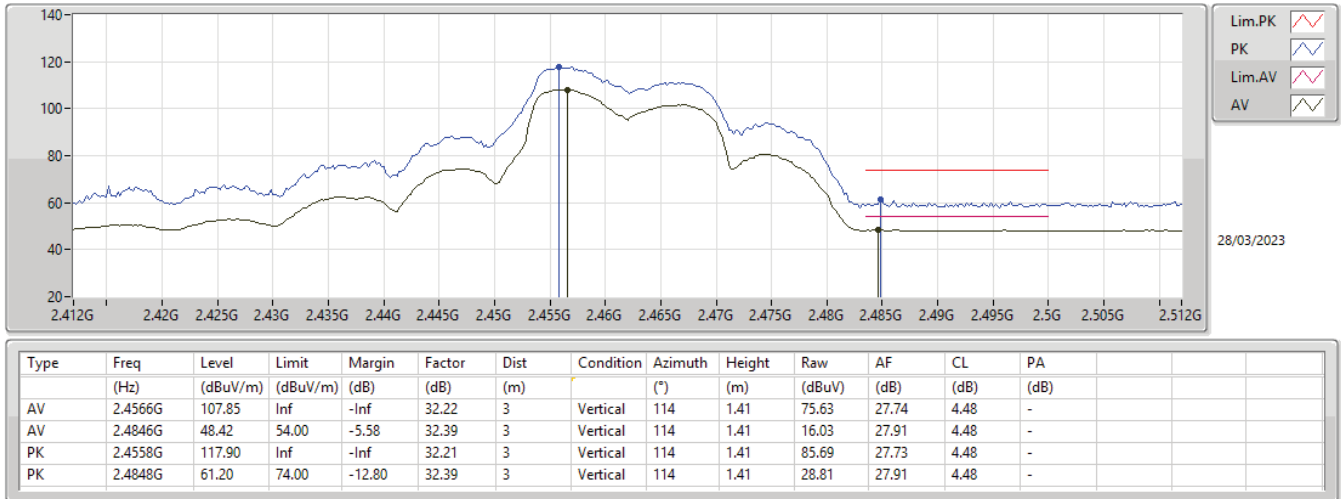
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2437MHz_TX



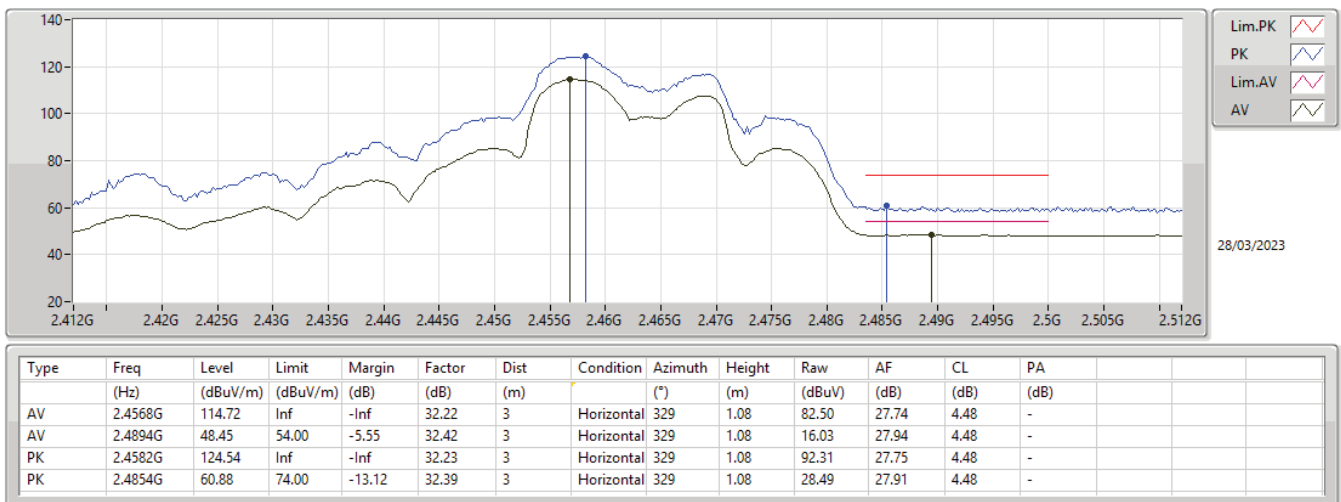
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX



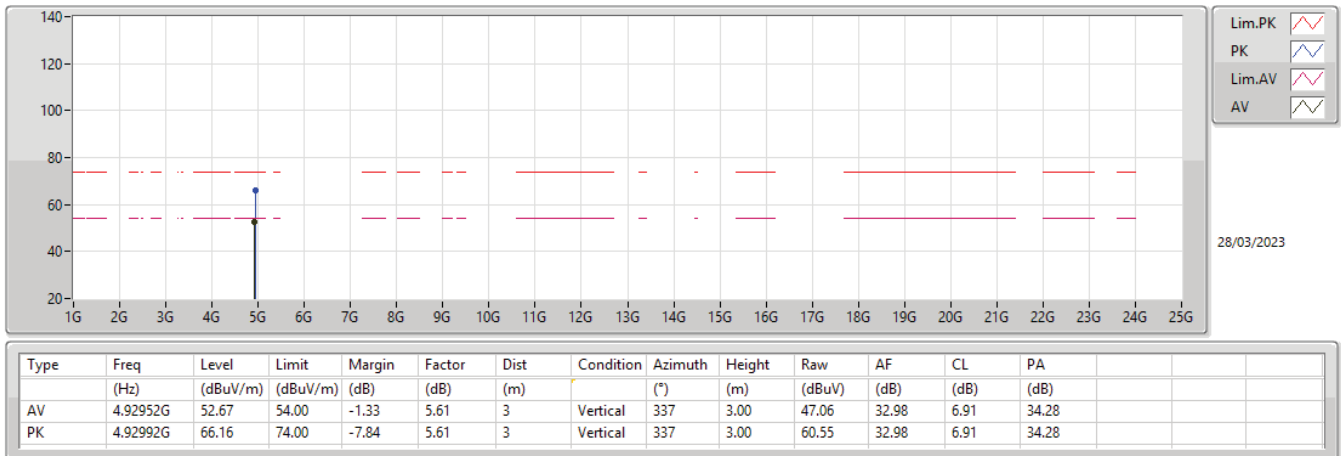
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2462MHz_TX



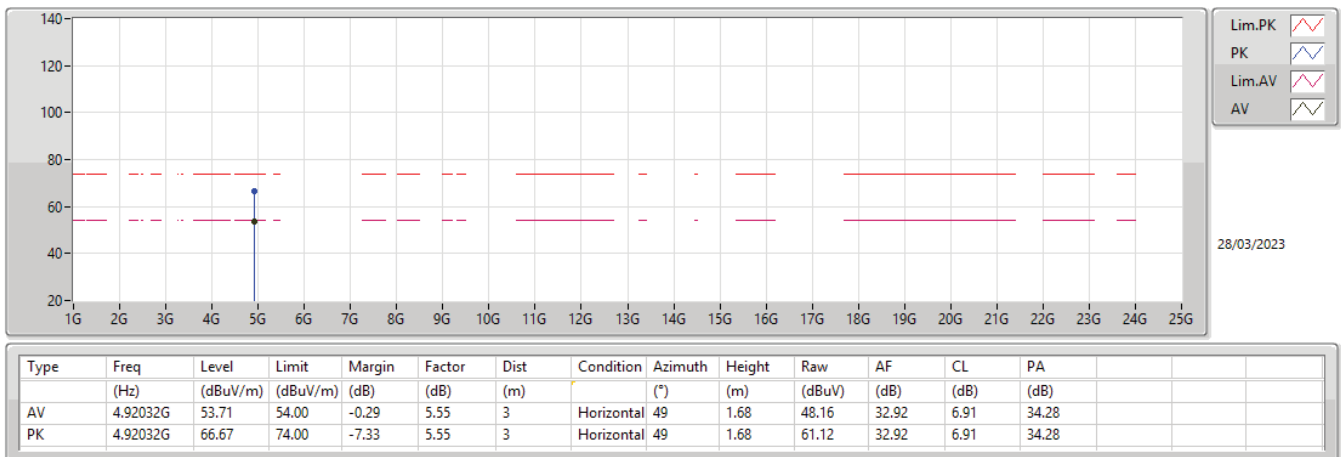
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX



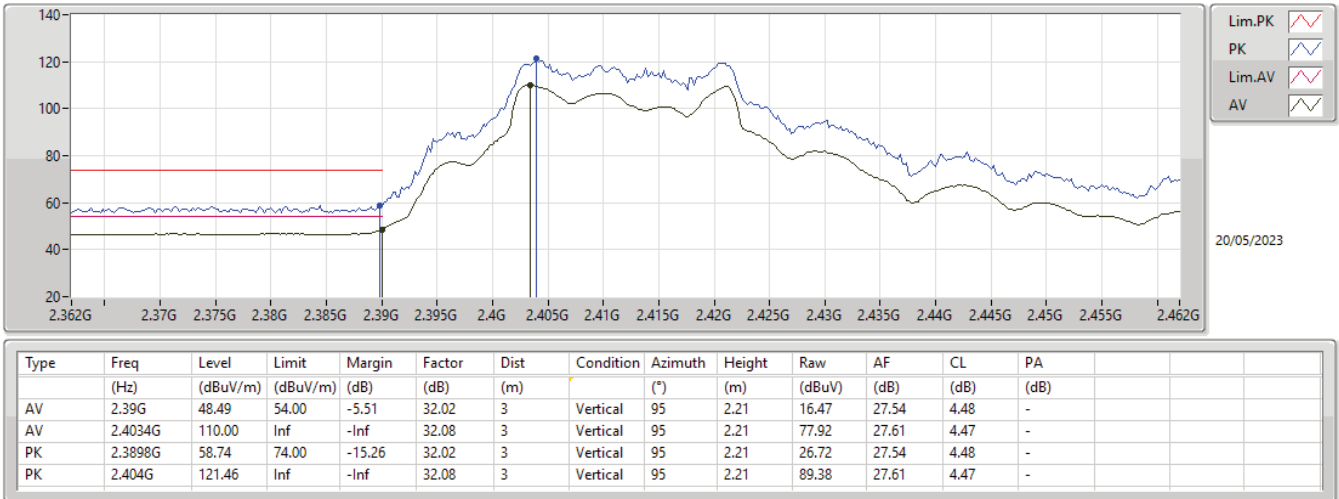
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX



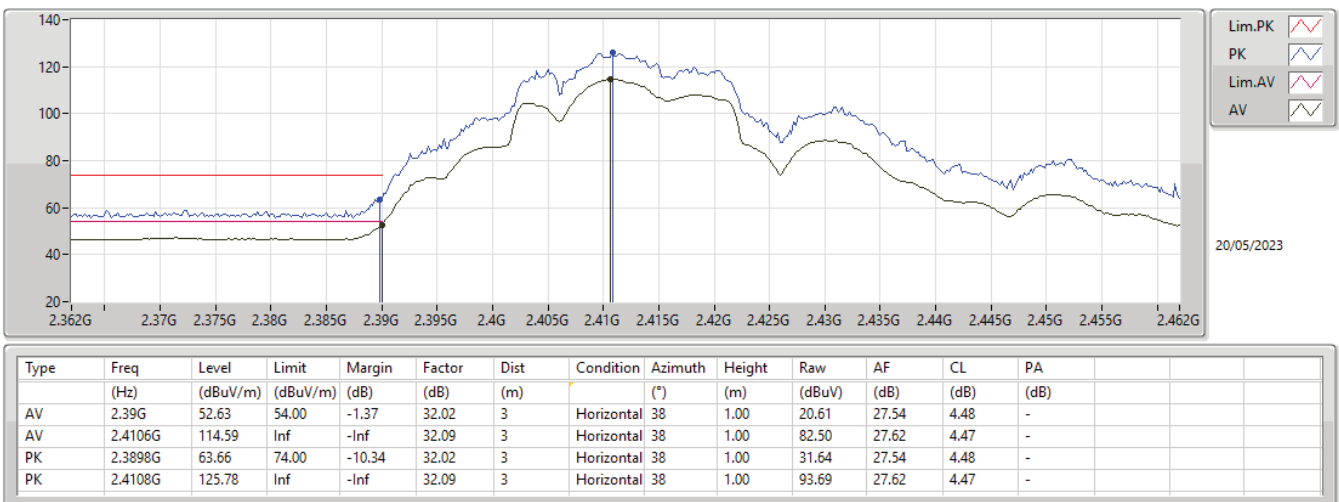
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX



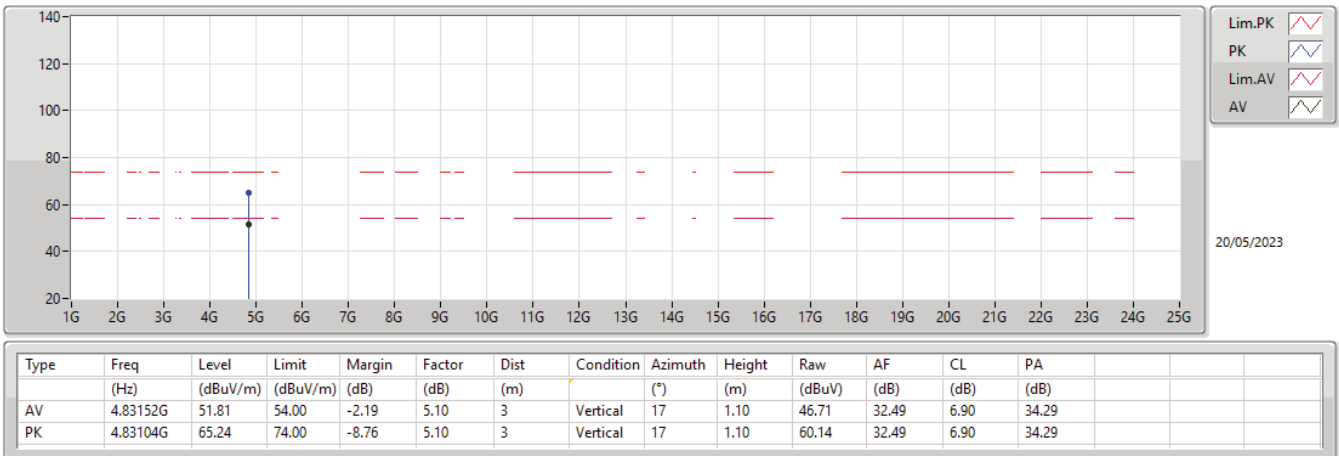
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX



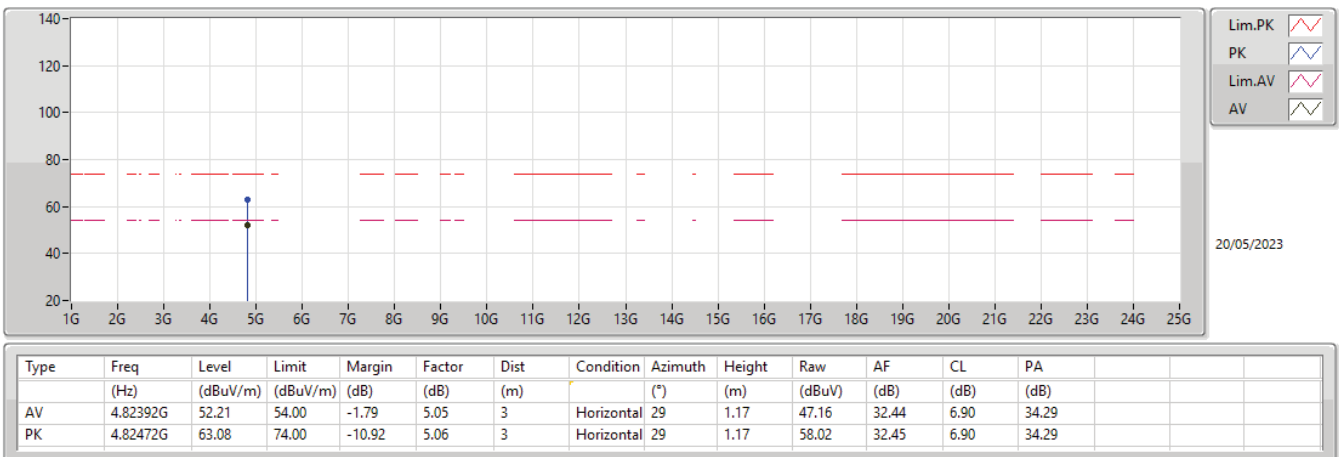
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2412MHz_TX



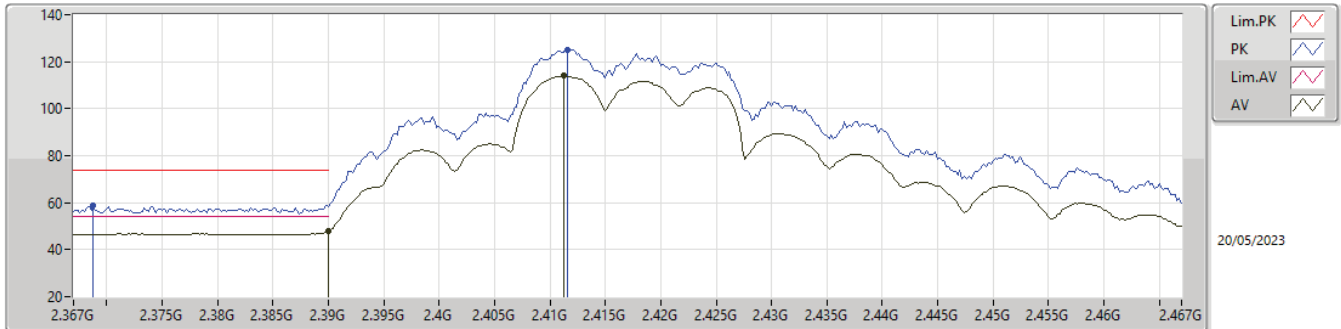
2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

2412MHz_TX



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

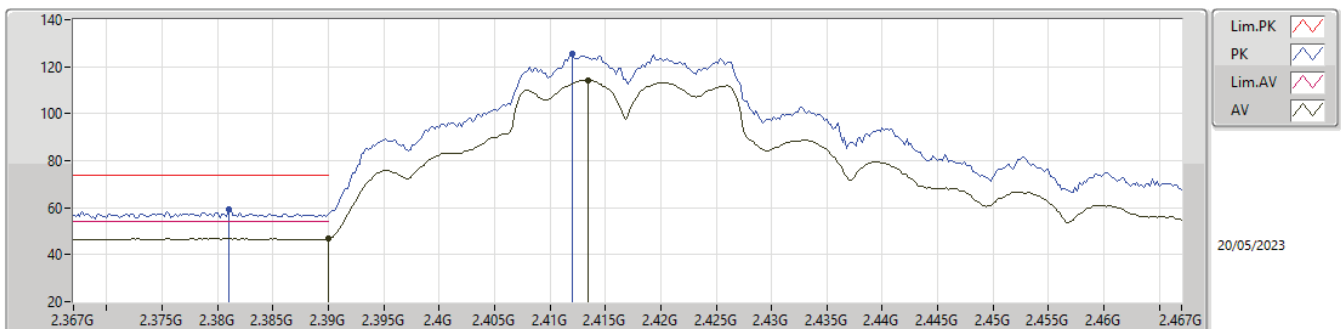
2417MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	48.06	54.00	-5.94	32.02	3	Vertical	14	2.86	16.04	27.54	4.48	-
AV	2.4112G	113.94	Inf	-Inf	32.09	3	Vertical	14	2.86	81.85	27.62	4.47	-
PK	2.3688G	58.73	74.00	-15.27	31.90	3	Vertical	14	2.86	26.83	27.41	4.49	-
PK	2.4116G	125.10	Inf	-Inf	32.09	3	Vertical	14	2.86	93.01	27.62	4.47	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

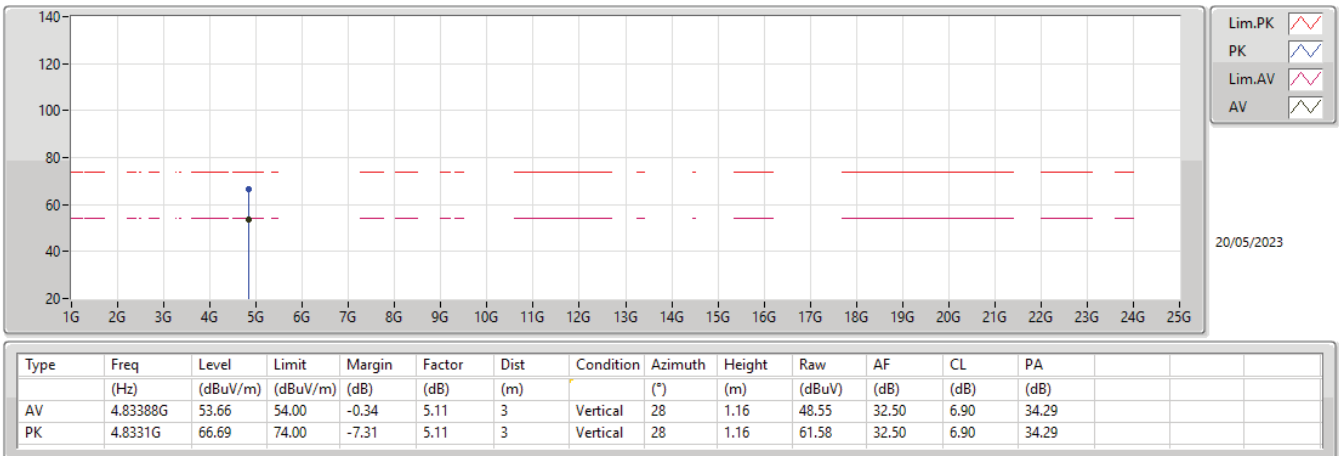
2417MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	46.87	54.00	-7.13	32.02	3	Horizontal	85	1.21	14.85	27.54	4.48	-
AV	2.4134G	114.05	Inf	-Inf	32.10	3	Horizontal	85	1.21	81.95	27.63	4.47	-
PK	2.381G	59.35	74.00	-14.65	31.97	3	Horizontal	85	1.21	27.38	27.49	4.48	-
PK	2.412G	125.30	Inf	-Inf	32.09	3	Horizontal	85	1.21	93.21	27.62	4.47	-

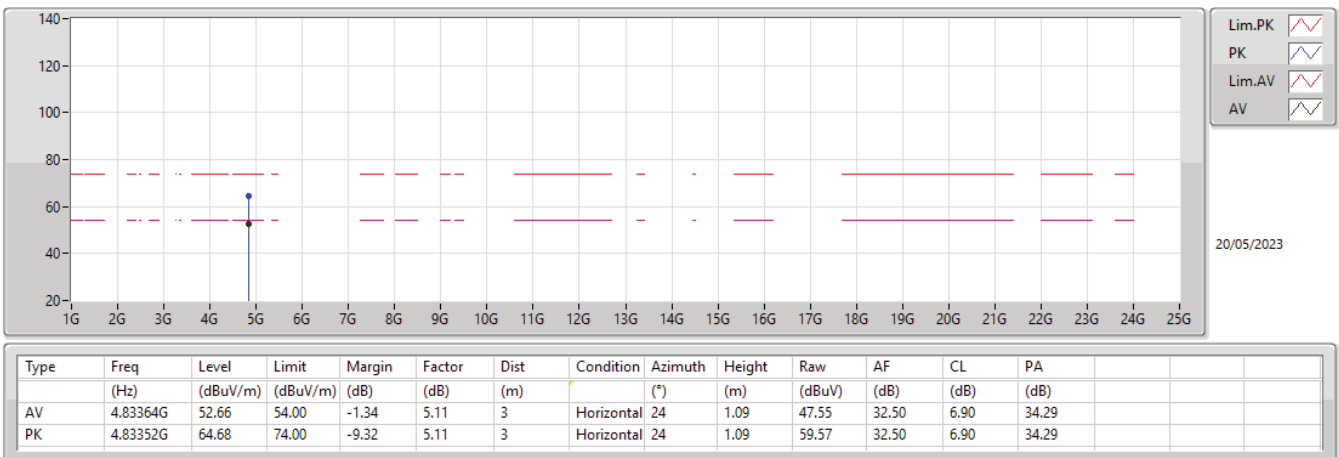
2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

2417MHz_TX



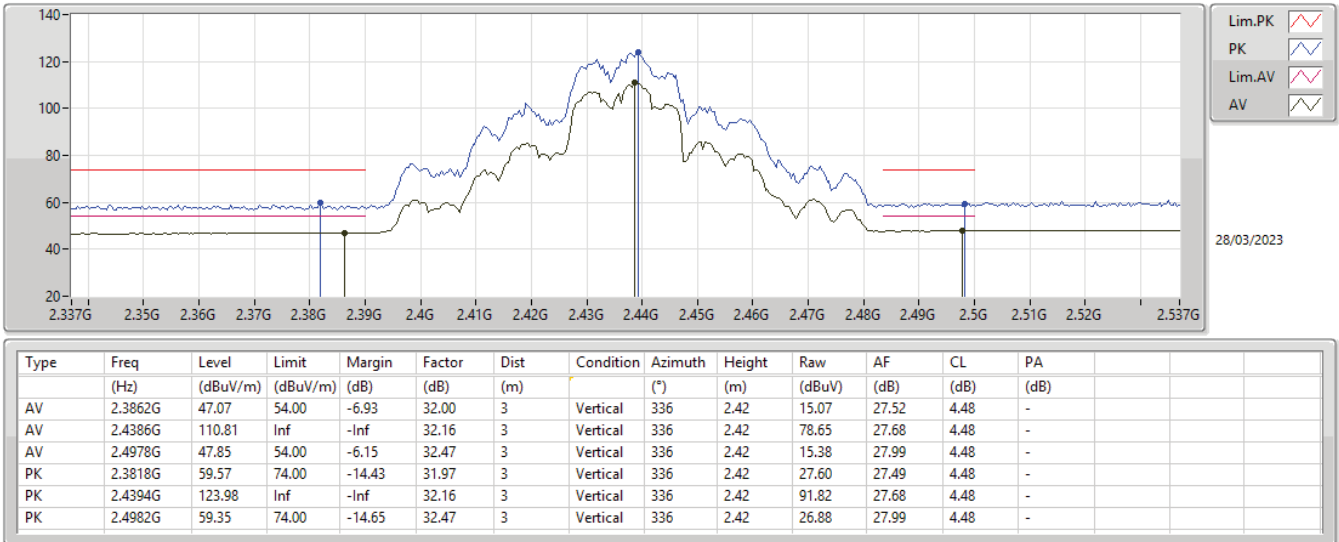
2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_4TX

2417MHz_TX



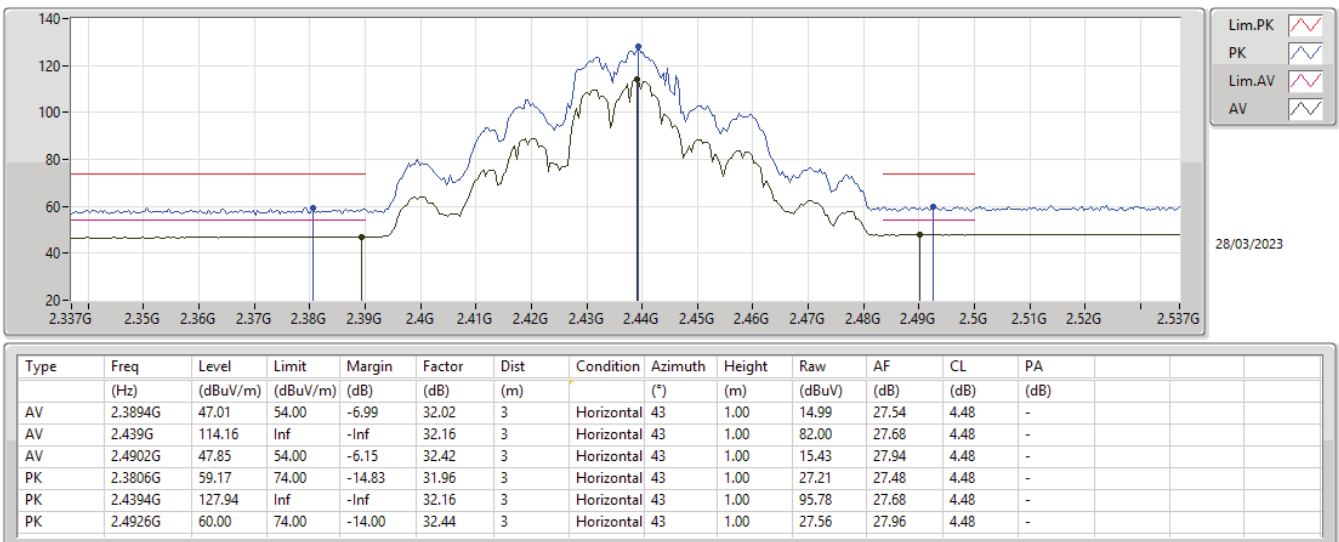
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

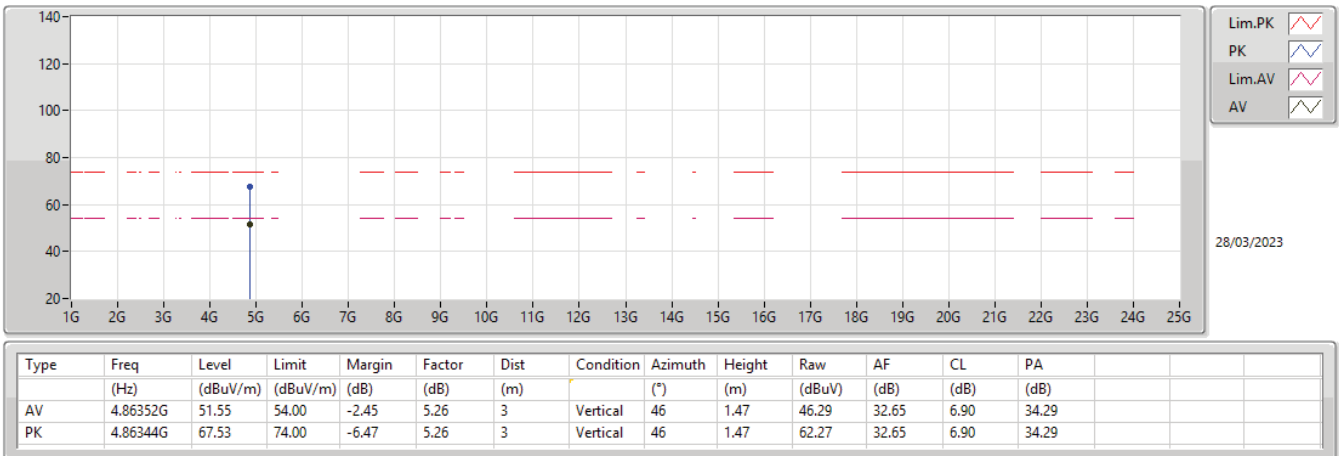
2437MHz_TX





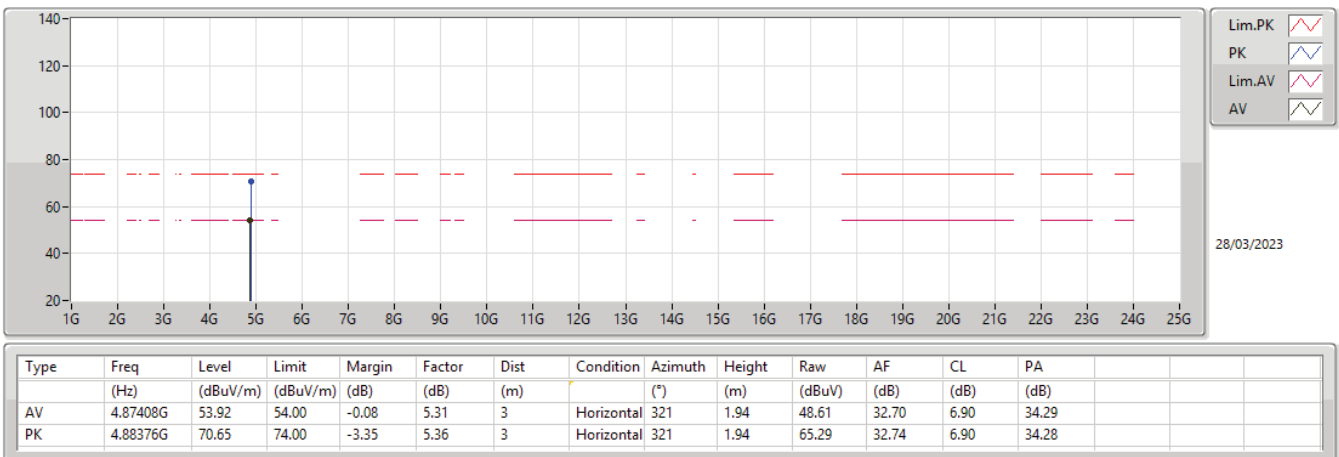
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2437MHz_TX



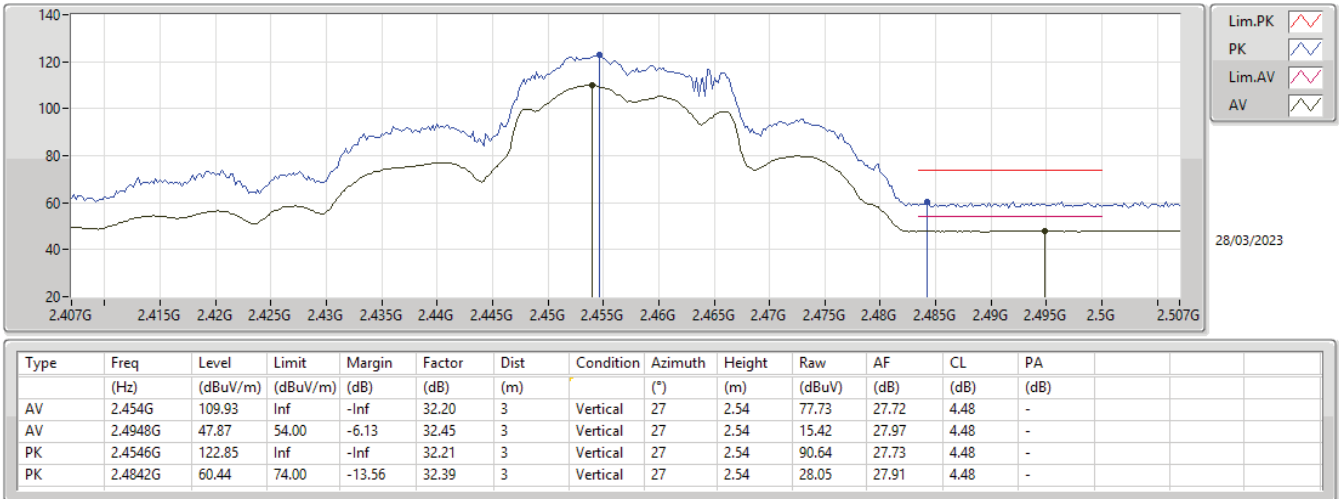
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2437MHz_TX



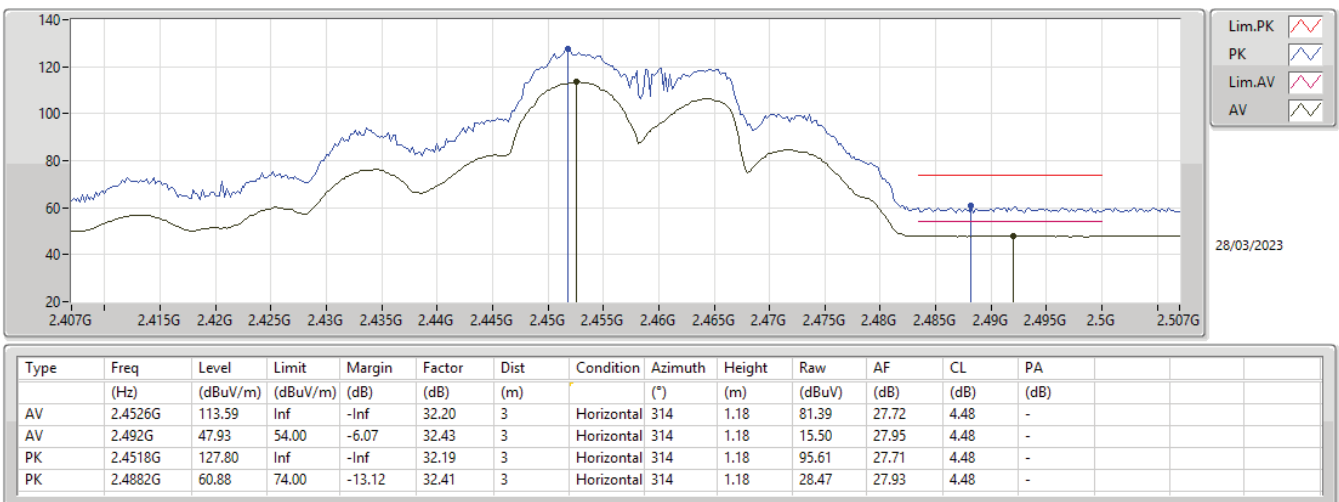
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2457MHz_TX



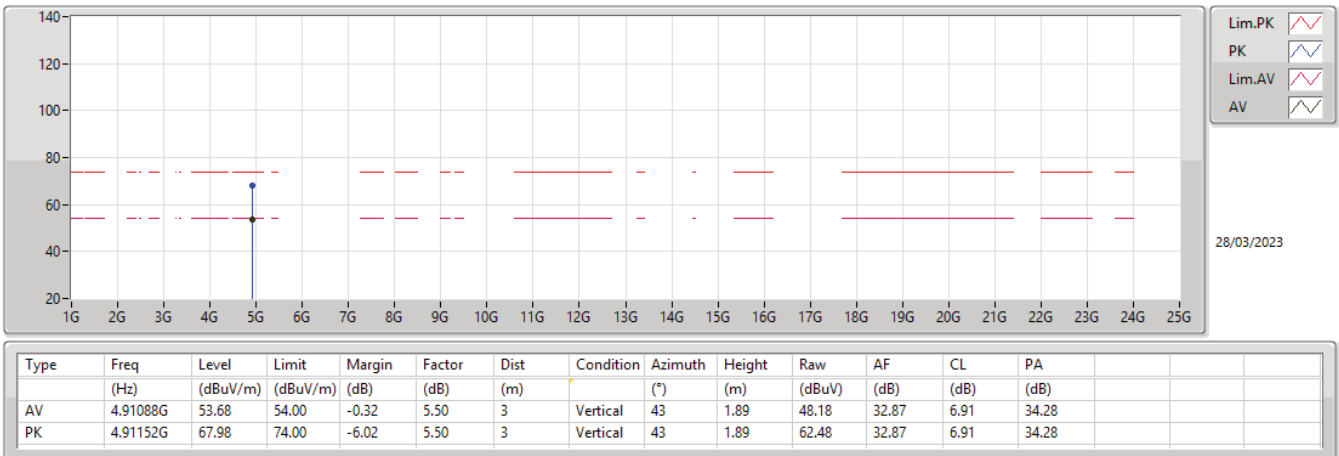
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2457MHz_TX



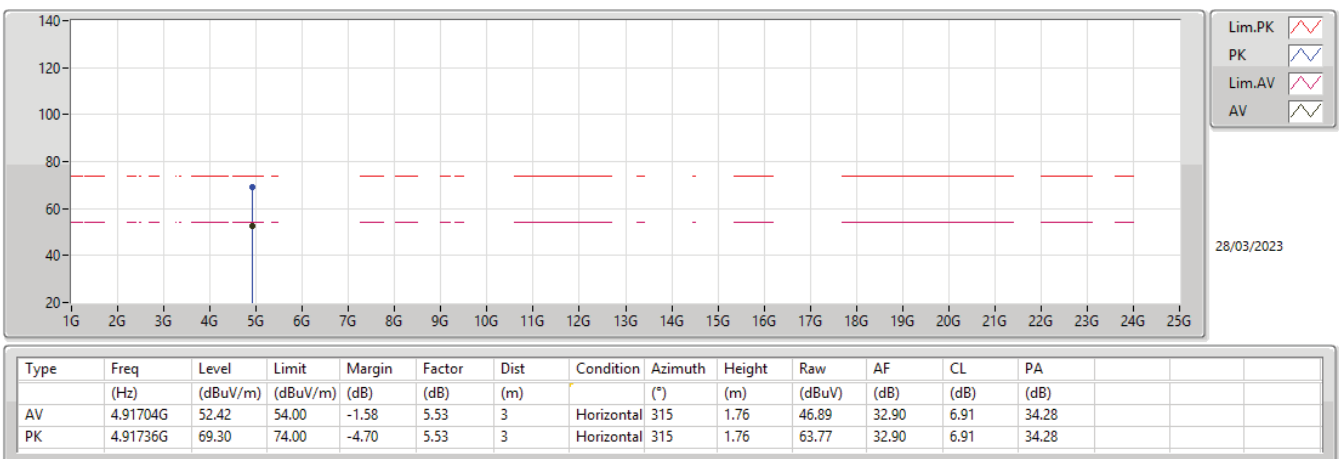
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2457MHz_TX



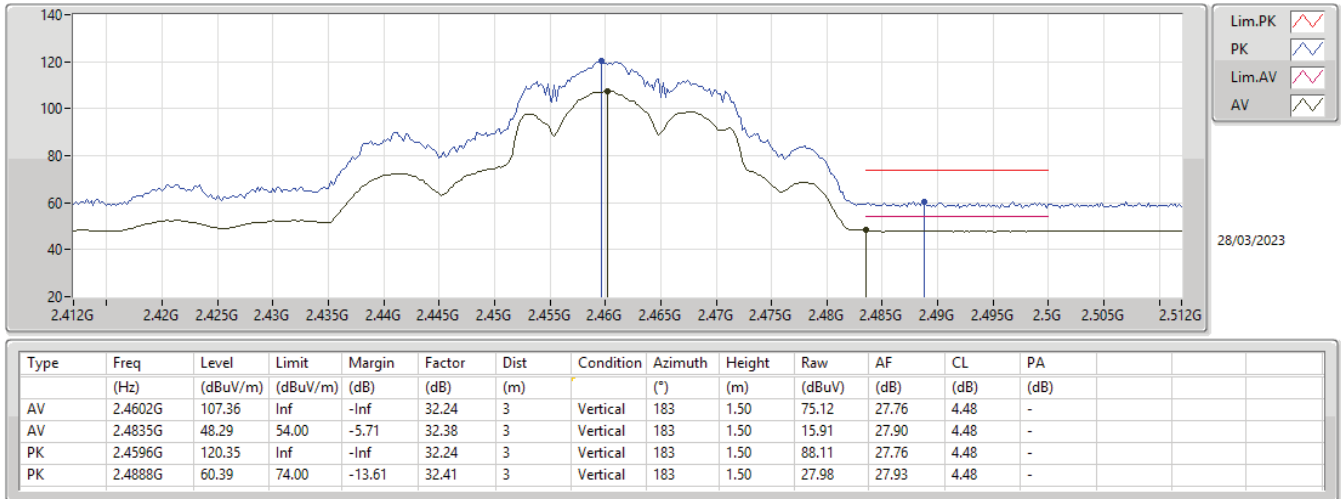
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2457MHz_TX



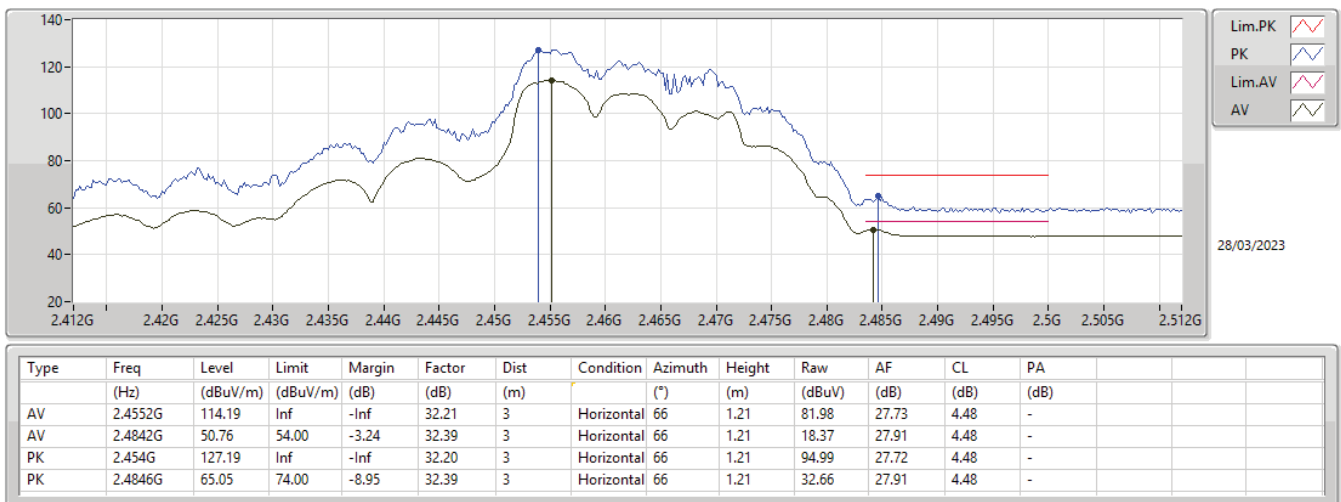
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX



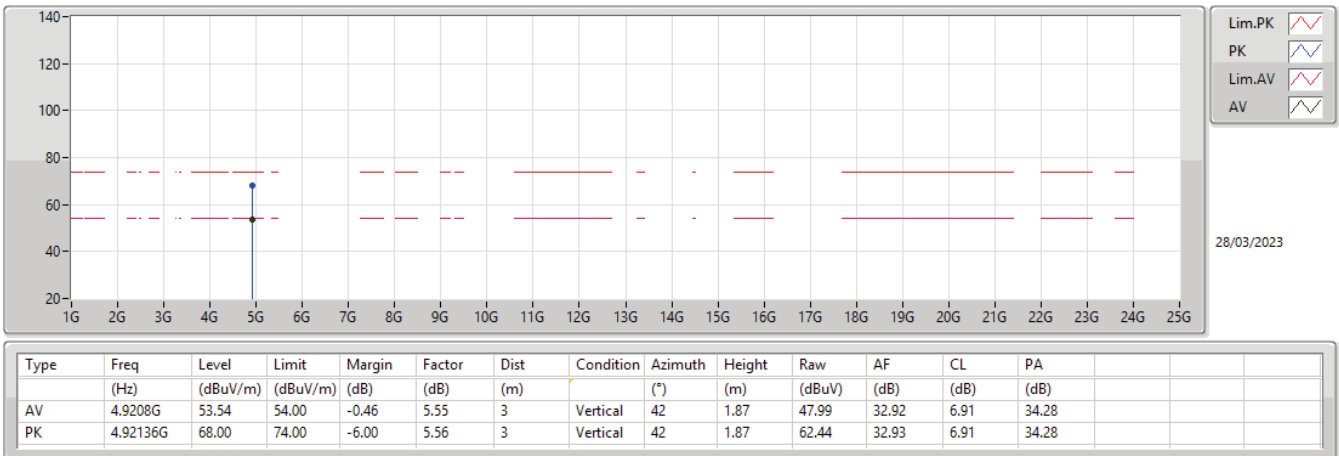
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2462MHz_TX



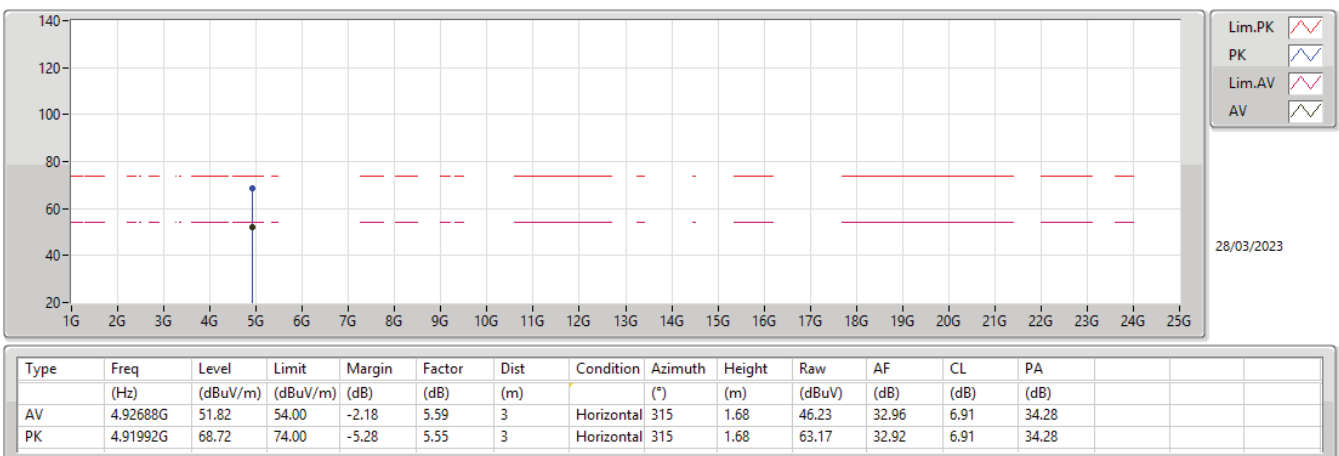
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX



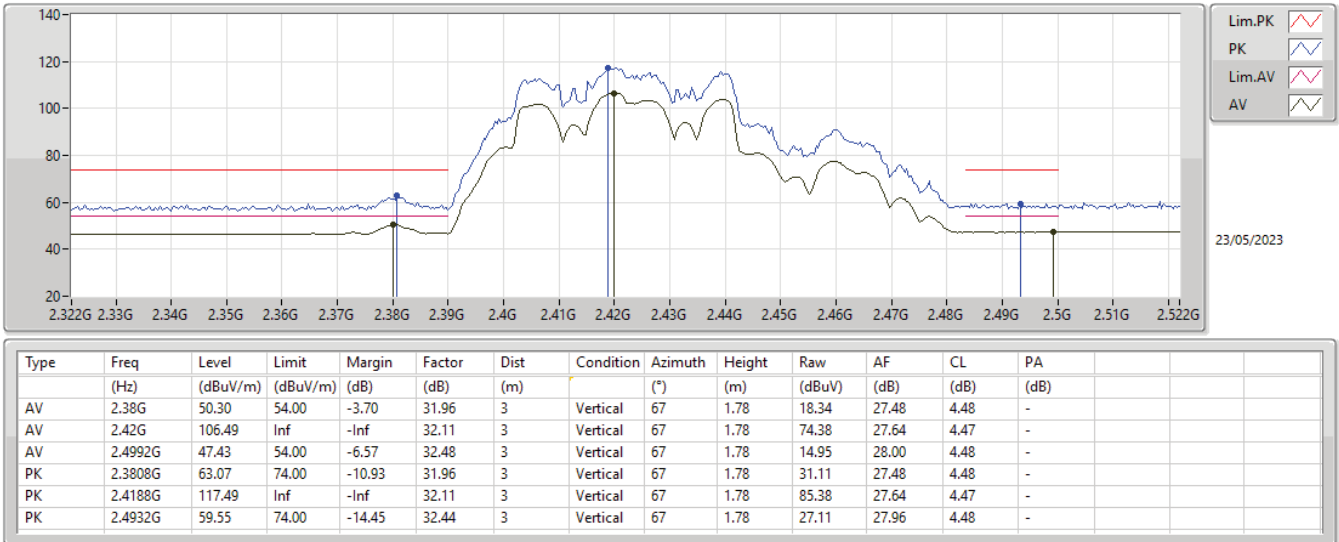
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX



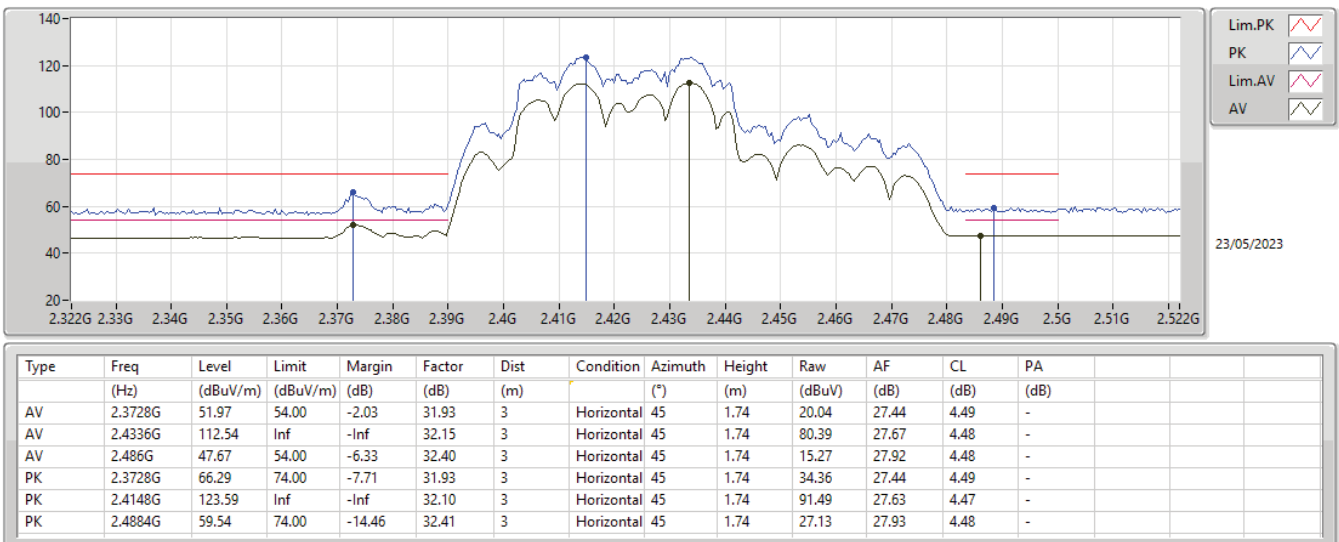
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX



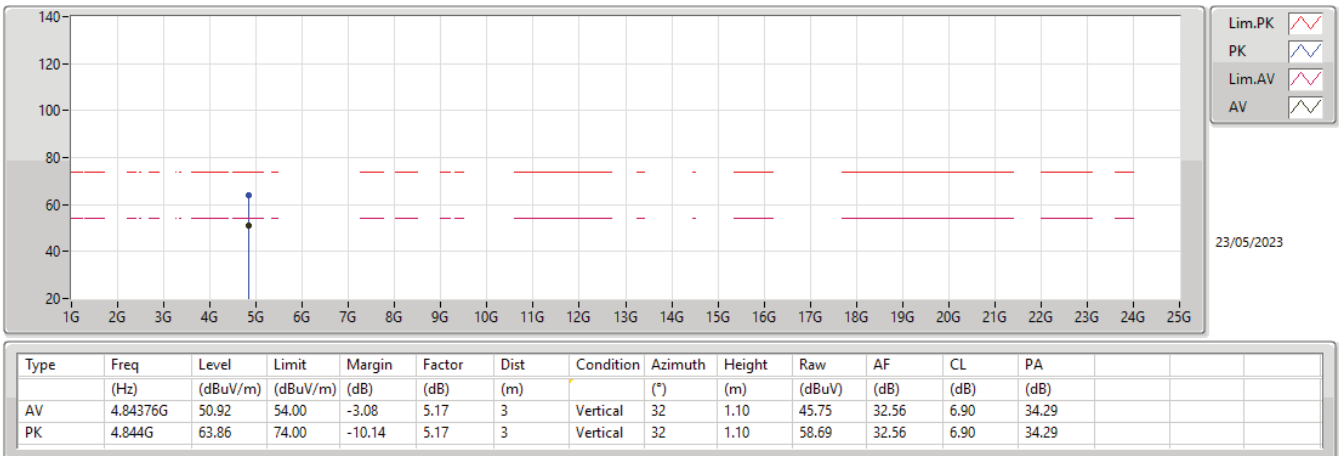
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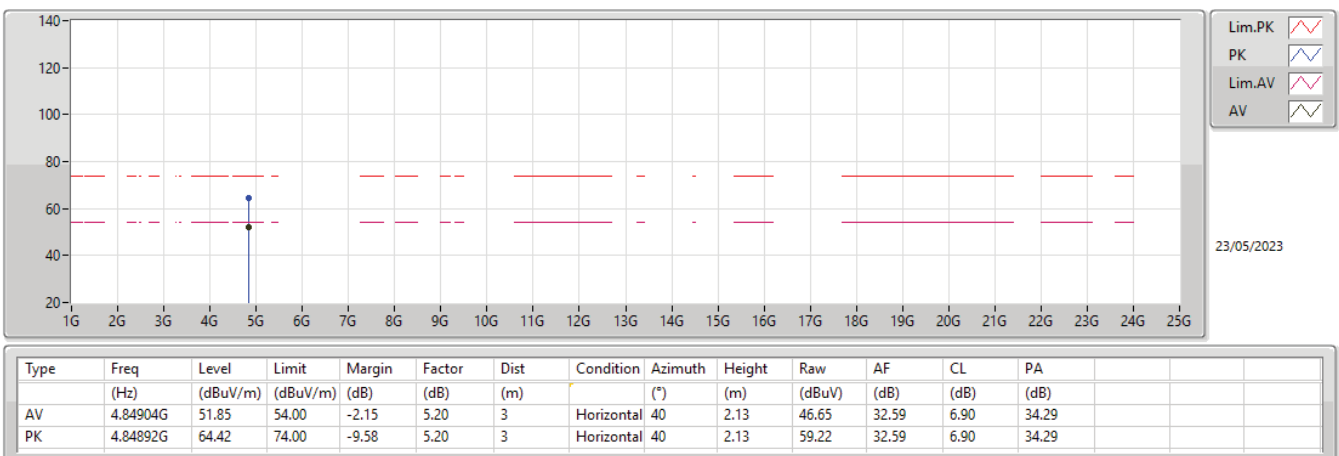
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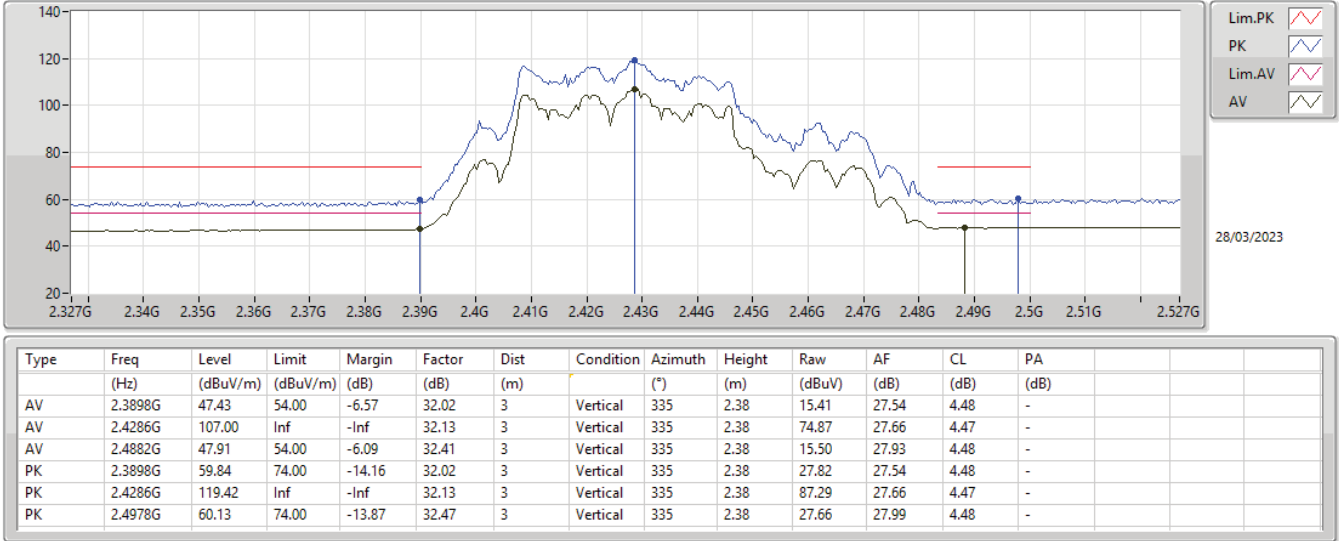
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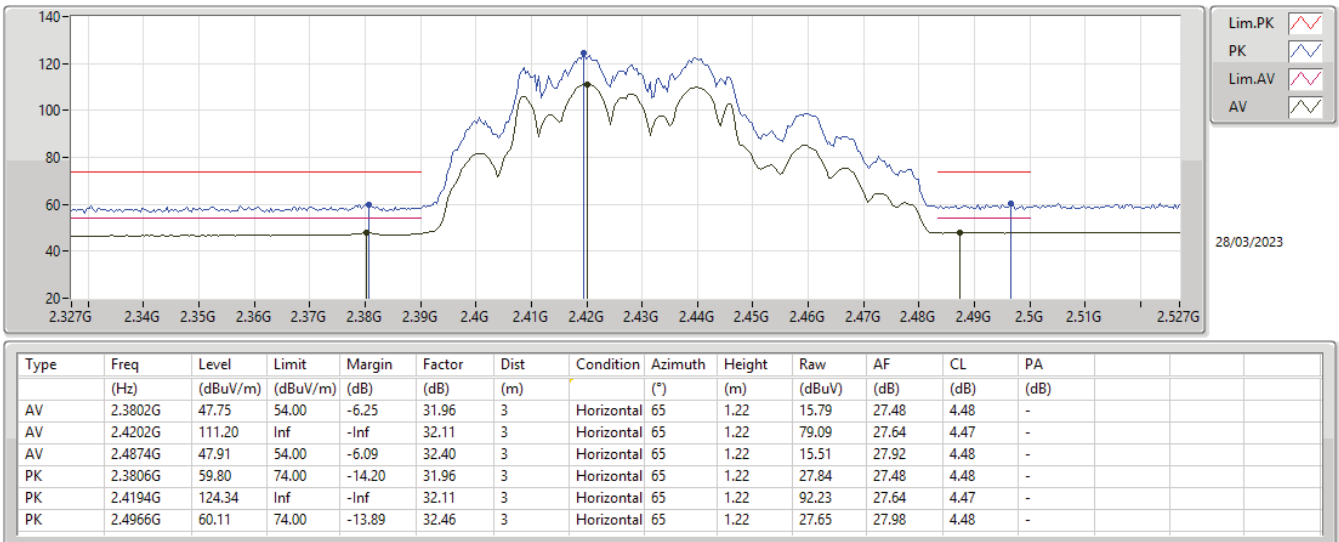
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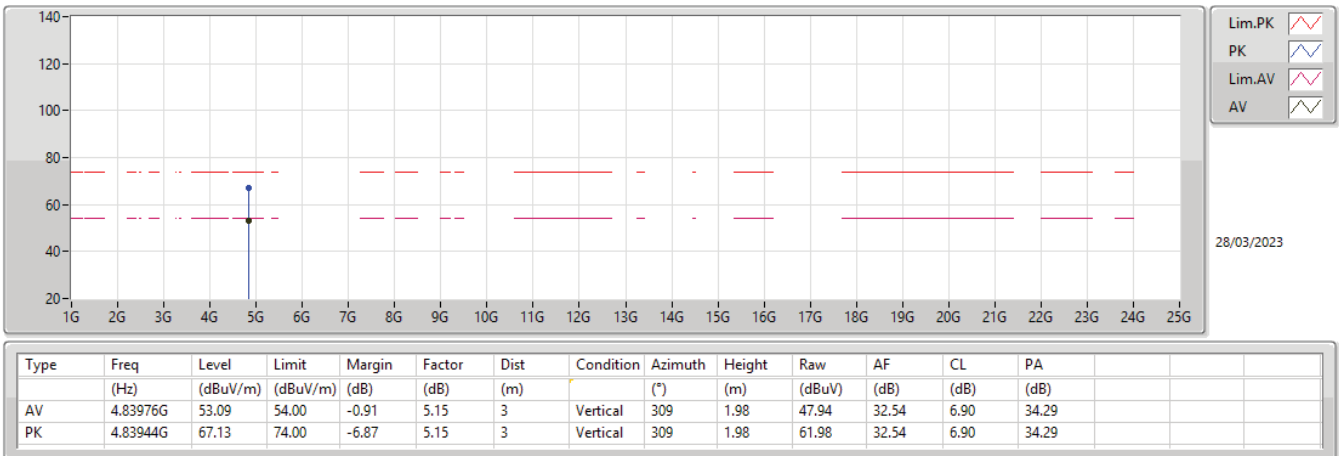
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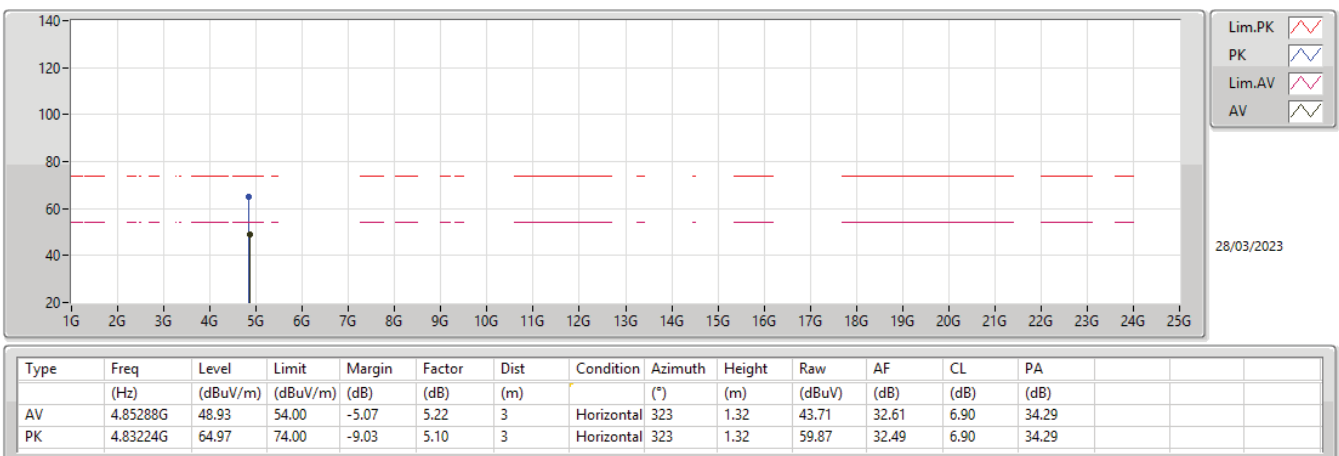
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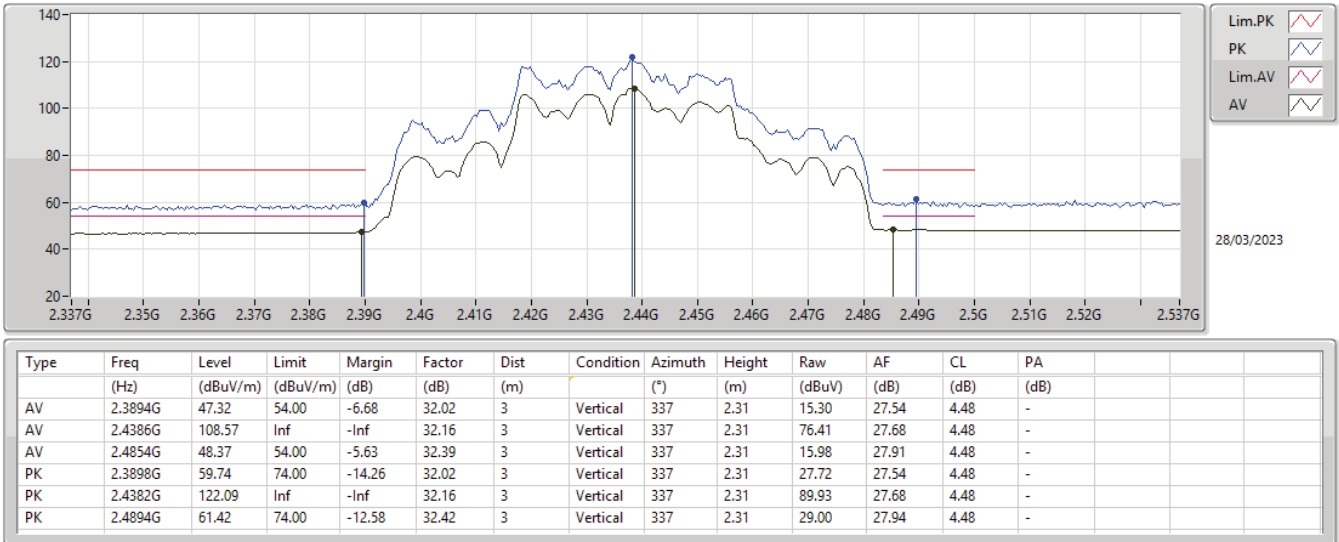
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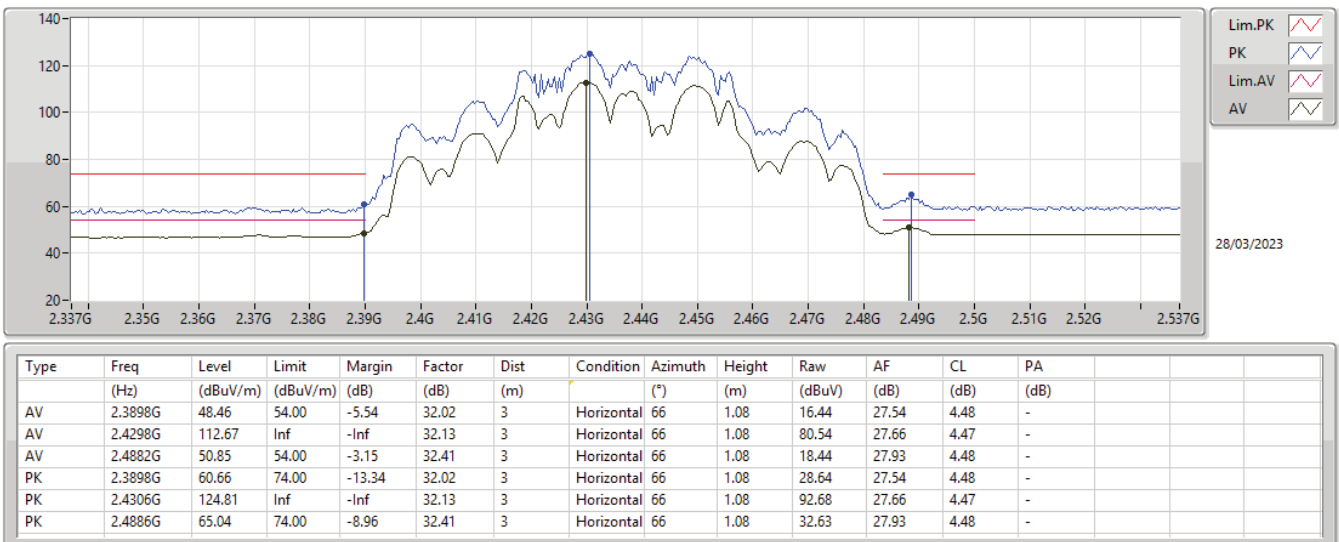
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2437MHz_TX



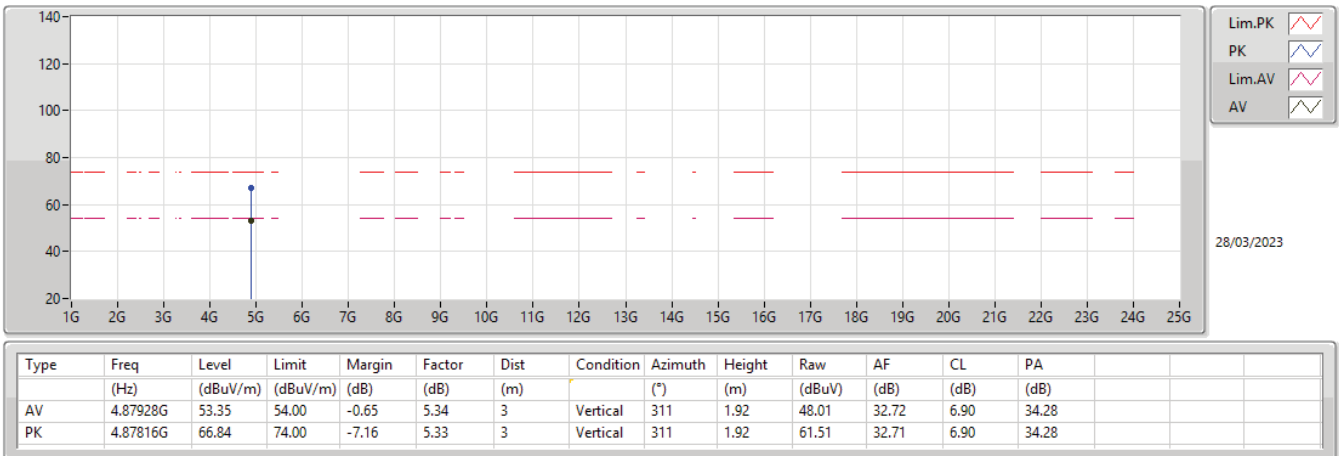
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2437MHz_TX



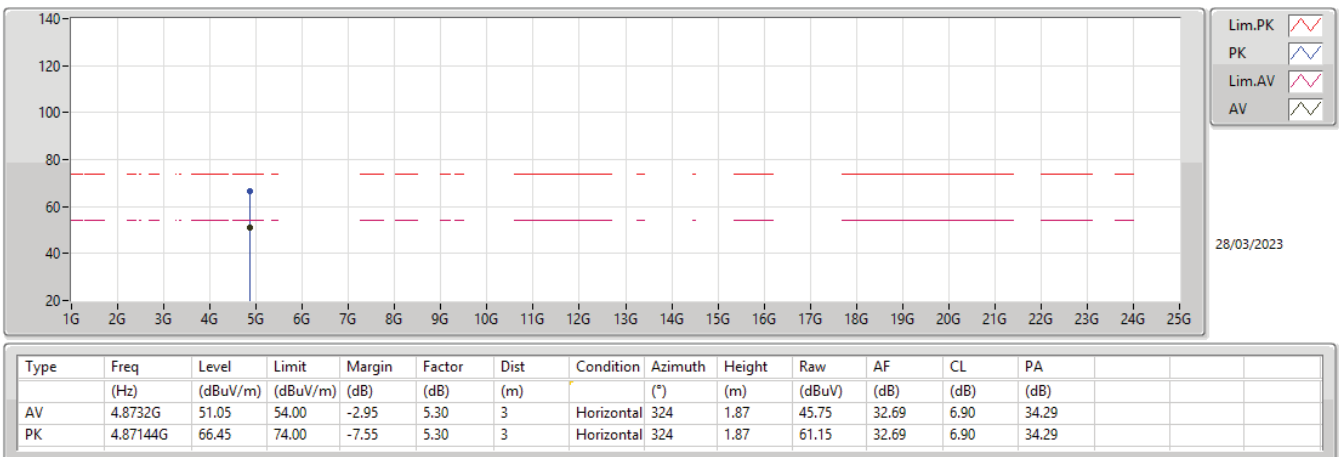
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2437MHz_TX



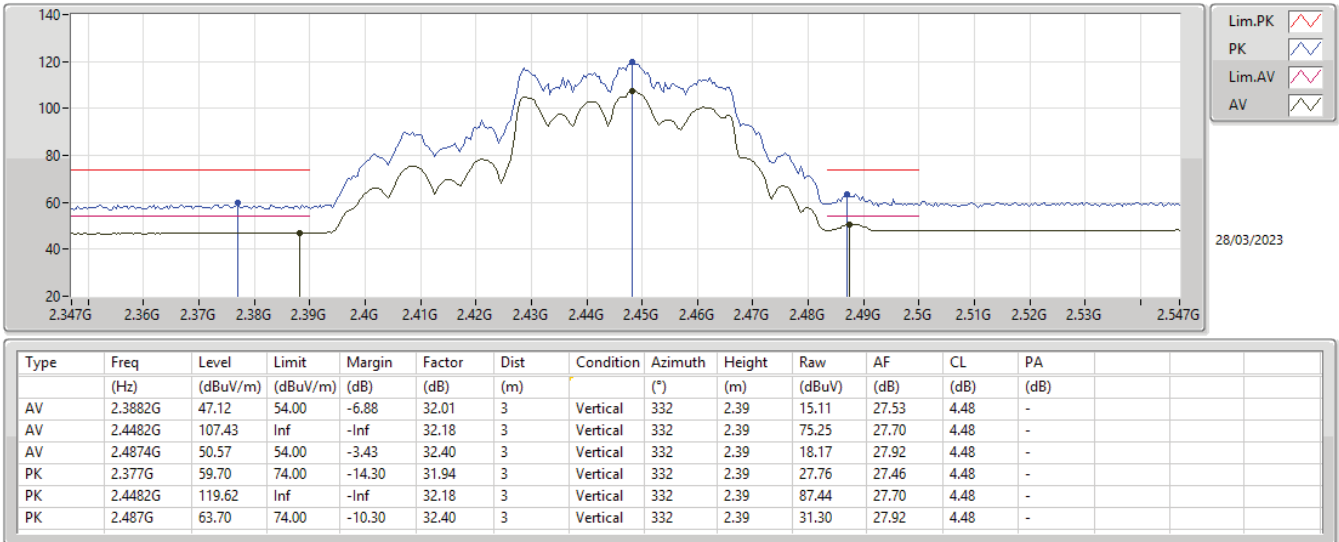
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2437MHz_TX



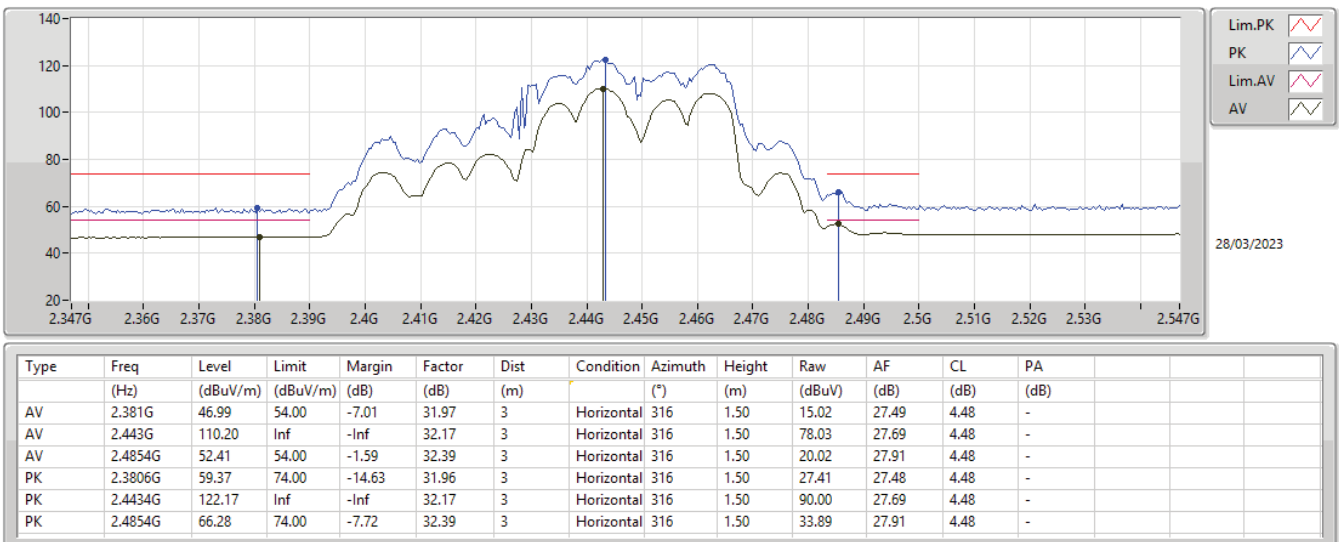
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2447MHz_TX



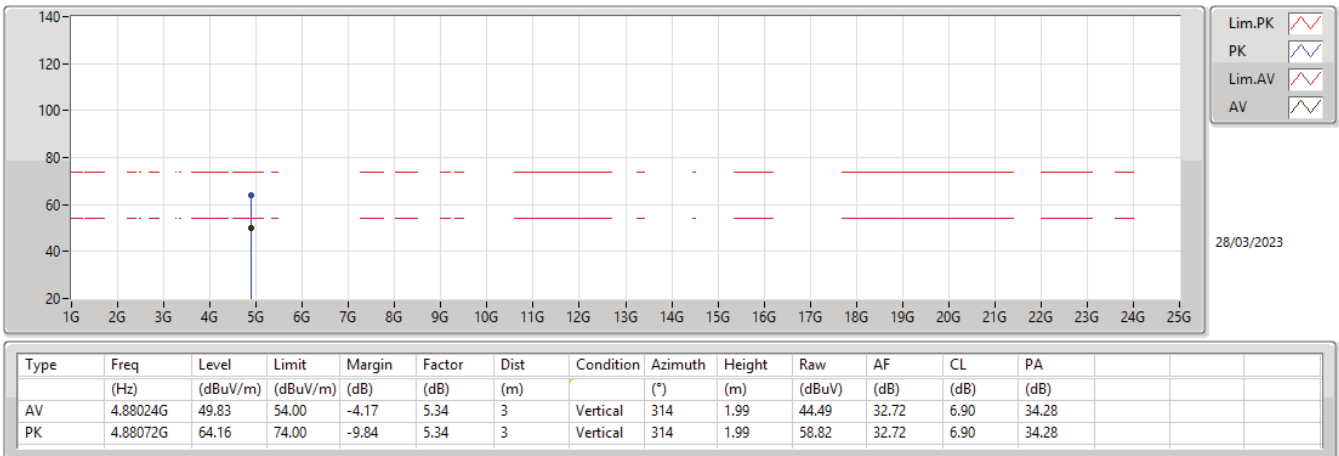
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2447MHz_TX



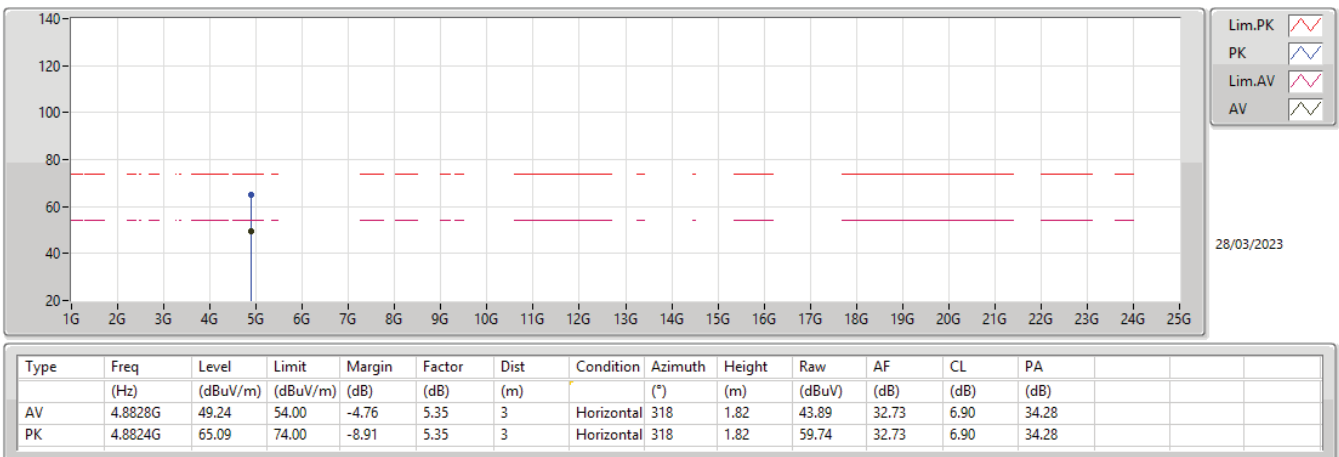
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2447MHz_TX



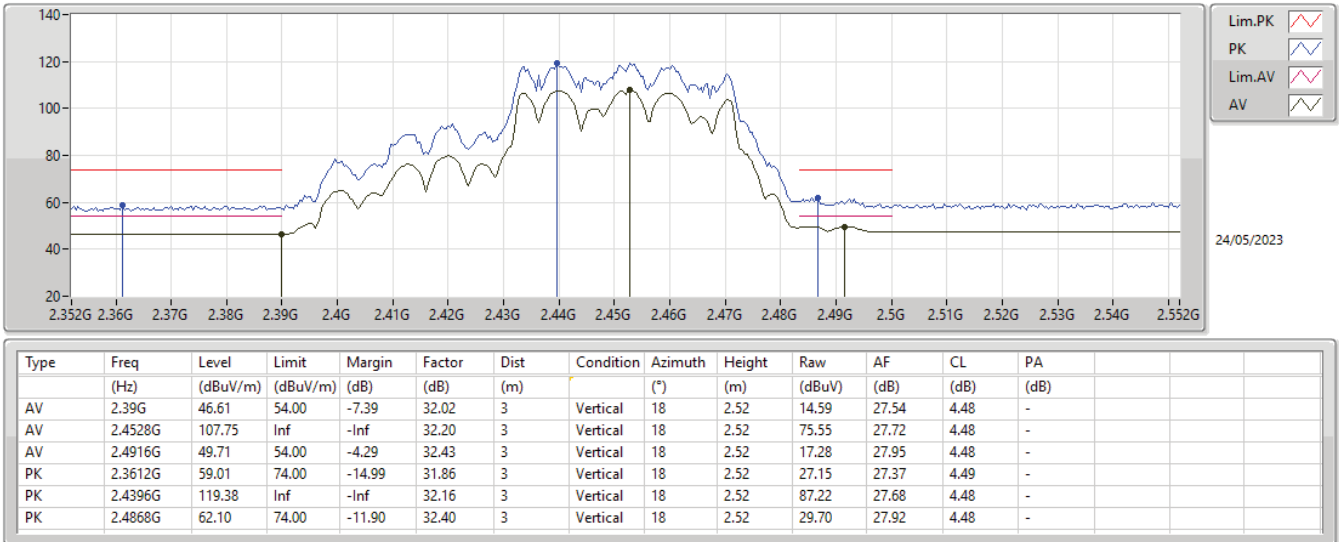
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2447MHz_TX



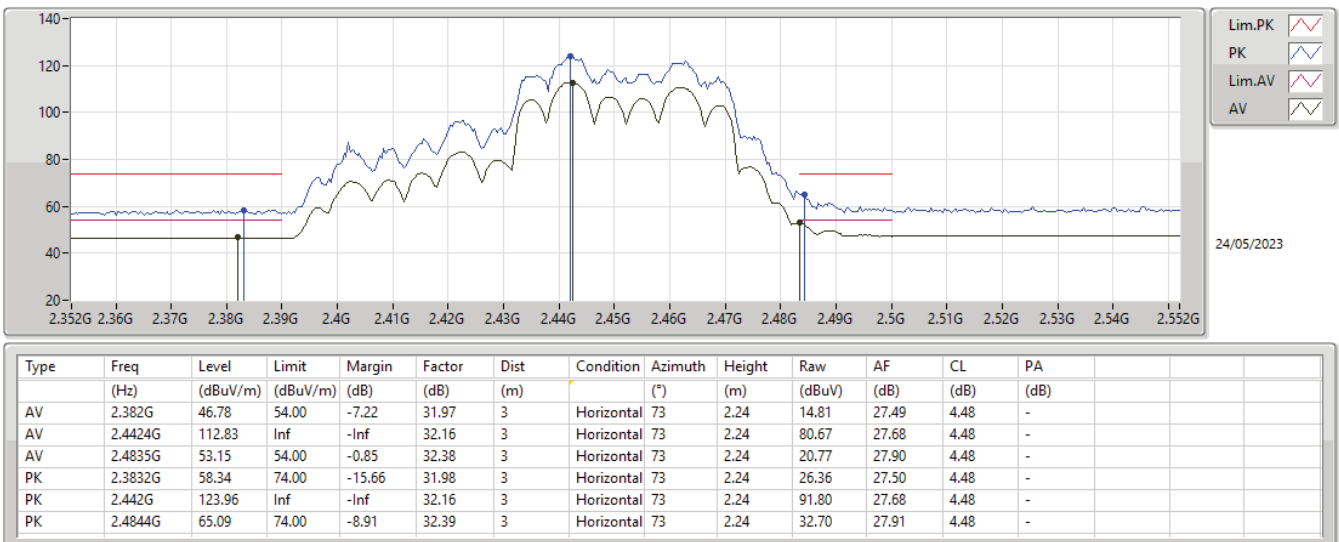
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2452MHz_TX



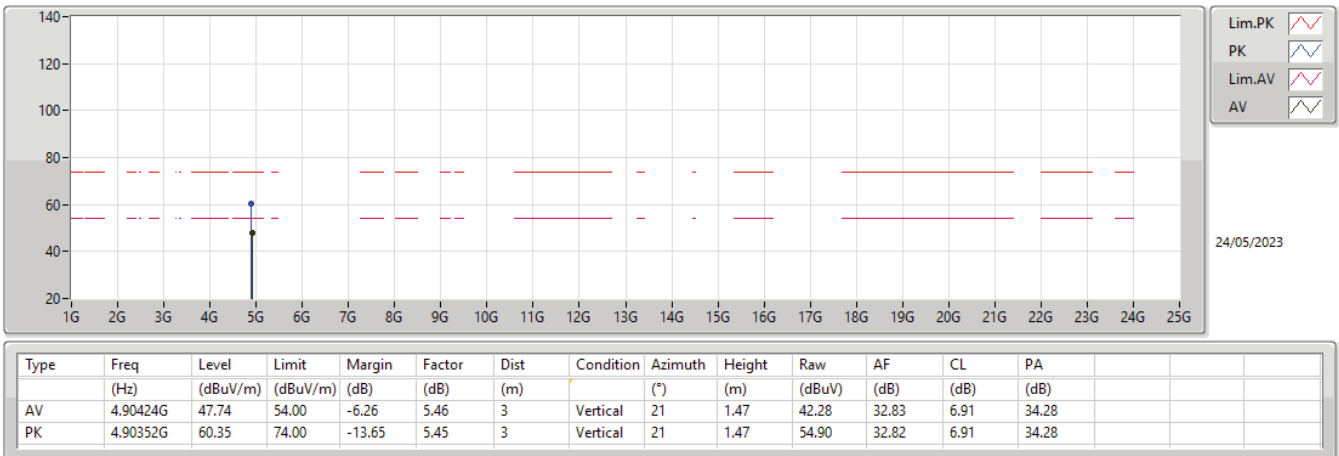
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2452MHz_TX



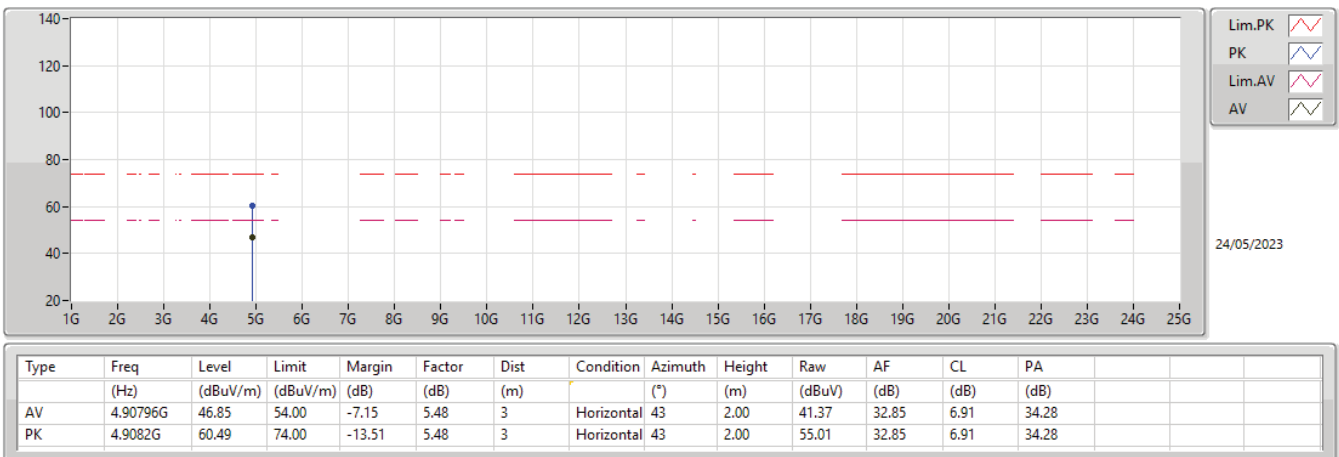
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	AV	4.834G	53.59	54.00	-0.41	3	Horizontal	22	1.50
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	AV	4.88398G	53.28	54.00	-0.72	3	Horizontal	30	1.00



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11ax HEW20_Nss1(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3778G	47.27	54.00	-6.73	3	Vertical	34	2.60
2412MHz	Pass	AV	2.4164G	107.05	Inf	-Inf	3	Vertical	34	2.60
2412MHz	Pass	PK	2.367G	58.92	74.00	-15.08	3	Vertical	34	2.60
2412MHz	Pass	PK	2.4182G	118.08	Inf	-Inf	3	Vertical	34	2.60
2412MHz	Pass	AV	2.3888G	47.11	54.00	-6.89	3	Horizontal	92	2.00
2412MHz	Pass	AV	2.4206G	109.20	Inf	-Inf	3	Horizontal	92	2.00
2412MHz	Pass	PK	2.3632G	59.02	74.00	-14.98	3	Horizontal	92	2.00
2412MHz	Pass	PK	2.4208G	120.84	Inf	-Inf	3	Horizontal	92	2.00
2412MHz	Pass	AV	4.824G	50.63	54.00	-3.37	3	Vertical	21	1.56
2412MHz	Pass	PK	4.824G	53.46	74.00	-20.54	3	Vertical	21	1.56
2412MHz	Pass	AV	4.824G	51.97	54.00	-2.03	3	Horizontal	299	1.80
2412MHz	Pass	PK	4.824G	54.28	74.00	-19.72	3	Horizontal	299	1.80
2417MHz	Pass	AV	2.3886G	47.35	54.00	-6.65	3	Vertical	332	1.42
2417MHz	Pass	AV	2.4084G	101.03	Inf	-Inf	3	Vertical	332	1.42
2417MHz	Pass	PK	2.378G	58.84	74.00	-15.16	3	Vertical	332	1.42
2417MHz	Pass	PK	2.408G	111.59	Inf	-Inf	3	Vertical	332	1.42
2417MHz	Pass	AV	2.3882G	47.35	54.00	-6.65	3	Horizontal	84	1.50
2417MHz	Pass	AV	2.4178G	109.77	Inf	-Inf	3	Horizontal	84	1.50
2417MHz	Pass	PK	2.3794G	58.72	74.00	-15.28	3	Horizontal	84	1.50
2417MHz	Pass	PK	2.4108G	119.55	Inf	-Inf	3	Horizontal	84	1.50
2417MHz	Pass	AV	4.834G	49.85	54.00	-4.15	3	Vertical	24	2.08
2417MHz	Pass	PK	4.84444G	53.53	74.00	-20.47	3	Vertical	24	2.08
2417MHz	Pass	AV	4.834G	53.59	54.00	-0.41	3	Horizontal	22	1.50
2417MHz	Pass	PK	4.81736G	58.21	74.00	-15.79	3	Horizontal	22	1.50
2437MHz	Pass	AV	2.3874G	48.02	54.00	-5.98	3	Vertical	103	2.51
2437MHz	Pass	AV	2.4378G	107.67	Inf	-Inf	3	Vertical	103	2.51
2437MHz	Pass	AV	2.4962G	48.87	54.00	-5.13	3	Vertical	103	2.51
2437MHz	Pass	PK	2.365G	59.97	74.00	-14.03	3	Vertical	103	2.51
2437MHz	Pass	PK	2.4466G	112.45	Inf	-Inf	3	Vertical	103	2.51
2437MHz	Pass	PK	2.4982G	59.83	74.00	-14.17	3	Vertical	103	2.51
2437MHz	Pass	AV	2.3854G	48.00	54.00	-6.00	3	Horizontal	72	1.18
2437MHz	Pass	AV	2.4362G	109.85	Inf	-Inf	3	Horizontal	72	1.18
2437MHz	Pass	AV	2.4942G	48.87	54.00	-5.13	3	Horizontal	72	1.18
2437MHz	Pass	PK	2.3478G	59.83	74.00	-14.17	3	Horizontal	72	1.18
2437MHz	Pass	PK	2.441G	119.50	Inf	-Inf	3	Horizontal	72	1.18
2437MHz	Pass	PK	2.4918G	61.11	74.00	-12.89	3	Horizontal	72	1.18
2437MHz	Pass	AV	4.87398G	49.93	54.00	-4.07	3	Vertical	324	1.58
2437MHz	Pass	PK	4.87224G	54.81	74.00	-19.19	3	Vertical	324	1.58
2437MHz	Pass	AV	4.87396G	51.36	54.00	-2.64	3	Horizontal	25	1.16
2437MHz	Pass	PK	4.87384G	55.59	74.00	-18.41	3	Horizontal	25	1.16
2457MHz	Pass	AV	2.4582G	109.74	Inf	-Inf	3	Vertical	38	3.00
2457MHz	Pass	AV	2.4996G	48.88	54.00	-5.12	3	Vertical	38	3.00
2457MHz	Pass	PK	2.4664G	116.15	Inf	-Inf	3	Vertical	38	3.00
2457MHz	Pass	PK	2.492G	60.36	74.00	-13.64	3	Vertical	38	3.00
2457MHz	Pass	AV	2.4562G	110.86	Inf	-Inf	3	Horizontal	335	1.33
2457MHz	Pass	AV	2.4962G	48.88	54.00	-5.12	3	Horizontal	335	1.33
2457MHz	Pass	PK	2.4624G	115.95	Inf	-Inf	3	Horizontal	335	1.33
2457MHz	Pass	PK	2.4946G	60.03	74.00	-13.97	3	Horizontal	335	1.33
2457MHz	Pass	AV	4.91394G	53.26	54.00	-0.74	3	Vertical	21	1.69
2457MHz	Pass	PK	4.91442G	55.90	74.00	-18.10	3	Vertical	21	1.69
2457MHz	Pass	AV	4.91402G	49.67	54.00	-4.33	3	Horizontal	61	2.95
2457MHz	Pass	PK	4.91394G	53.10	74.00	-20.90	3	Horizontal	61	2.95
2462MHz	Pass	AV	2.4612G	107.13	Inf	-Inf	3	Vertical	147	1.63
2462MHz	Pass	AV	2.4932G	48.87	54.00	-5.13	3	Vertical	147	1.63
2462MHz	Pass	PK	2.453G	110.67	Inf	-Inf	3	Vertical	147	1.63
2462MHz	Pass	PK	2.4862G	60.55	74.00	-13.45	3	Vertical	147	1.63
2462MHz	Pass	AV	2.4628G	109.29	Inf	-Inf	3	Horizontal	334	1.20
2462MHz	Pass	AV	2.4835G	49.09	54.00	-4.91	3	Horizontal	334	1.20
2462MHz	Pass	PK	2.4698G	117.24	Inf	-Inf	3	Horizontal	334	1.20
2462MHz	Pass	PK	2.4954G	61.47	74.00	-12.53	3	Horizontal	334	1.20



RSE TX above 1GHz_Beamforming

Appendix F.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2462MHz	Pass	AV	4.924G	52.05	54.00	-1.95	3	Vertical	22	1.88
2462MHz	Pass	PK	4.92742G	56.66	74.00	-17.34	3	Vertical	22	1.88
2462MHz	Pass	AV	4.924G	47.68	54.00	-6.32	3	Horizontal	22	1.19
2462MHz	Pass	PK	4.92364G	54.32	74.00	-19.68	3	Horizontal	22	1.19
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.3288G	46.77	54.00	-7.23	3	Vertical	24	2.55
2422MHz	Pass	AV	2.4132G	109.49	Inf	-Inf	3	Vertical	24	2.55
2422MHz	Pass	AV	2.4944G	47.43	54.00	-6.57	3	Vertical	24	2.55
2422MHz	Pass	PK	2.3416G	58.54	74.00	-15.46	3	Vertical	24	2.55
2422MHz	Pass	PK	2.4392G	116.16	Inf	-Inf	3	Vertical	24	2.55
2422MHz	Pass	PK	2.488G	58.67	74.00	-15.33	3	Vertical	24	2.55
2422MHz	Pass	AV	2.366G	46.72	54.00	-7.28	3	Horizontal	84	1.50
2422MHz	Pass	AV	2.4112G	105.81	Inf	-Inf	3	Horizontal	84	1.50
2422MHz	Pass	AV	2.4944G	47.43	54.00	-6.57	3	Horizontal	84	1.50
2422MHz	Pass	PK	2.3472G	58.31	74.00	-15.69	3	Horizontal	84	1.50
2422MHz	Pass	PK	2.4144G	114.89	Inf	-Inf	3	Horizontal	84	1.50
2422MHz	Pass	PK	2.494G	59.02	74.00	-14.98	3	Horizontal	84	1.50
2422MHz	Pass	AV	4.82402G	48.76	54.00	-5.24	3	Vertical	94	1.46
2422MHz	Pass	PK	4.82392G	52.61	74.00	-21.39	3	Vertical	94	1.46
2422MHz	Pass	AV	4.824G	53.03	54.00	-0.97	3	Horizontal	25	1.19
2422MHz	Pass	PK	4.82396G	55.63	74.00	-18.37	3	Horizontal	25	1.19
2427MHz	Pass	AV	2.3854G	46.81	54.00	-7.19	3	Vertical	35	2.55
2427MHz	Pass	AV	2.4154G	107.84	Inf	-Inf	3	Vertical	35	2.55
2427MHz	Pass	AV	2.4942G	47.43	54.00	-6.57	3	Vertical	35	2.55
2427MHz	Pass	PK	2.3738G	58.89	74.00	-15.11	3	Vertical	35	2.55
2427MHz	Pass	PK	2.4322G	114.19	Inf	-Inf	3	Vertical	35	2.55
2427MHz	Pass	PK	2.4835G	59.14	74.00	-14.86	3	Vertical	35	2.55
2427MHz	Pass	AV	2.3402G	46.73	54.00	-7.27	3	Horizontal	90	1.50
2427MHz	Pass	AV	2.4178G	107.84	Inf	-Inf	3	Horizontal	90	1.50
2427MHz	Pass	AV	2.4874G	47.67	54.00	-6.33	3	Horizontal	90	1.50
2427MHz	Pass	PK	2.3842G	58.94	74.00	-15.06	3	Horizontal	90	1.50
2427MHz	Pass	PK	2.4098G	115.07	Inf	-Inf	3	Horizontal	90	1.50
2427MHz	Pass	PK	2.4978G	59.24	74.00	-14.76	3	Horizontal	90	1.50
2427MHz	Pass	AV	4.83398G	49.42	54.00	-4.58	3	Vertical	25	1.80
2427MHz	Pass	PK	4.83392G	53.03	74.00	-20.97	3	Vertical	25	1.80
2427MHz	Pass	AV	4.83394G	52.55	54.00	-1.45	3	Horizontal	21	1.50
2427MHz	Pass	PK	4.83388G	55.22	74.00	-18.78	3	Horizontal	21	1.50
2437MHz	Pass	AV	2.3894G	47.55	54.00	-6.45	3	Vertical	146	1.85
2437MHz	Pass	AV	2.4278G	109.64	Inf	-Inf	3	Vertical	146	1.85
2437MHz	Pass	AV	2.4998G	48.37	54.00	-5.63	3	Vertical	146	1.85
2437MHz	Pass	PK	2.3862G	60.45	74.00	-13.55	3	Vertical	146	1.85
2437MHz	Pass	PK	2.4282G	112.06	Inf	-Inf	3	Vertical	146	1.85
2437MHz	Pass	PK	2.4986G	59.96	74.00	-14.04	3	Vertical	146	1.85
2437MHz	Pass	AV	2.3894G	47.55	54.00	-6.45	3	Horizontal	340	1.72
2437MHz	Pass	AV	2.4266G	108.89	Inf	-Inf	3	Horizontal	340	1.72
2437MHz	Pass	AV	2.4994G	48.37	54.00	-5.63	3	Horizontal	340	1.72
2437MHz	Pass	PK	2.3662G	59.14	74.00	-14.86	3	Horizontal	340	1.72
2437MHz	Pass	PK	2.4262G	114.55	Inf	-Inf	3	Horizontal	340	1.72
2437MHz	Pass	PK	2.4866G	59.95	74.00	-14.05	3	Horizontal	340	1.72
2437MHz	Pass	AV	4.85398G	49.13	54.00	-4.87	3	Vertical	324	1.68
2437MHz	Pass	PK	4.85402G	52.66	74.00	-21.34	3	Vertical	324	1.68
2437MHz	Pass	AV	4.85402G	51.60	54.00	-2.40	3	Horizontal	25	1.02
2437MHz	Pass	PK	4.85404G	54.38	74.00	-19.62	3	Horizontal	25	1.02
2447MHz	Pass	AV	2.3898G	47.55	54.00	-6.45	3	Vertical	175	1.87
2447MHz	Pass	AV	2.4398G	101.33	Inf	-Inf	3	Vertical	175	1.87
2447MHz	Pass	AV	2.4994G	48.37	54.00	-5.63	3	Vertical	175	1.87
2447MHz	Pass	PK	2.3706G	59.49	74.00	-14.51	3	Vertical	175	1.87
2447MHz	Pass	PK	2.4398G	112.88	Inf	-Inf	3	Vertical	175	1.87
2447MHz	Pass	PK	2.4838G	59.73	74.00	-14.27	3	Vertical	175	1.87
2447MHz	Pass	AV	2.3894G	47.55	54.00	-6.45	3	Horizontal	318	2.05
2447MHz	Pass	AV	2.4382G	108.35	Inf	-Inf	3	Horizontal	318	2.05
2447MHz	Pass	AV	2.4978G	48.37	54.00	-5.63	3	Horizontal	318	2.05



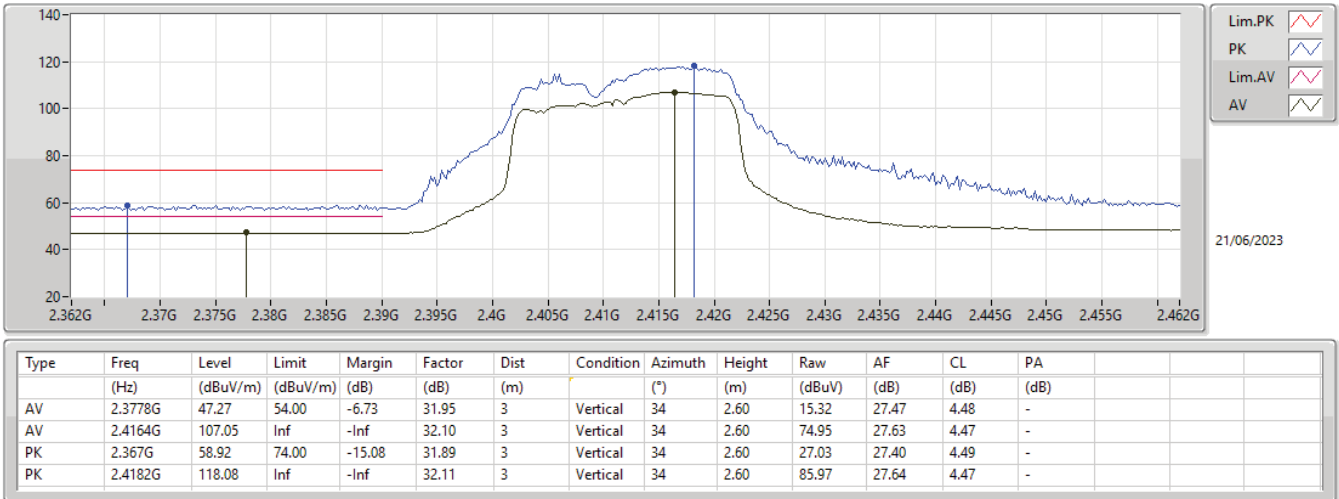
RSE TX above 1GHz_Beamforming

Appendix F.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2447MHz	Pass	PK	2.3758G	59.76	74.00	-14.24	3	Horizontal	318	2.05
2447MHz	Pass	PK	2.4338G	113.25	Inf	-Inf	3	Horizontal	318	2.05
2447MHz	Pass	PK	2.4862G	60.42	74.00	-13.58	3	Horizontal	318	2.05
2447MHz	Pass	AV	4.87398G	50.92	54.00	-3.08	3	Vertical	26	1.83
2447MHz	Pass	PK	4.87394G	53.94	74.00	-20.06	3	Vertical	26	1.83
2447MHz	Pass	AV	4.874G	52.76	54.00	-1.24	3	Horizontal	30	1.08
2447MHz	Pass	PK	4.87398G	55.81	74.00	-18.19	3	Horizontal	30	1.08
2452MHz	Pass	AV	2.39G	47.55	54.00	-6.45	3	Vertical	101	2.09
2452MHz	Pass	AV	2.4436G	109.39	Inf	-Inf	3	Vertical	101	2.09
2452MHz	Pass	AV	2.4992G	48.37	54.00	-5.63	3	Vertical	101	2.09
2452MHz	Pass	PK	2.3756G	59.30	74.00	-14.70	3	Vertical	101	2.09
2452MHz	Pass	PK	2.4412G	112.64	Inf	-Inf	3	Vertical	101	2.09
2452MHz	Pass	PK	2.4892G	59.82	74.00	-14.18	3	Vertical	101	2.09
2452MHz	Pass	AV	2.3896G	47.55	54.00	-6.45	3	Horizontal	336	2.61
2452MHz	Pass	AV	2.4412G	112.11	Inf	-Inf	3	Horizontal	336	2.61
2452MHz	Pass	AV	2.4992G	48.37	54.00	-5.63	3	Horizontal	336	2.61
2452MHz	Pass	PK	2.362G	59.44	74.00	-14.56	3	Horizontal	336	2.61
2452MHz	Pass	PK	2.4412G	114.87	Inf	-Inf	3	Horizontal	336	2.61
2452MHz	Pass	PK	2.4988G	59.61	74.00	-14.39	3	Horizontal	336	2.61
2452MHz	Pass	AV	4.88402G	51.67	54.00	-2.33	3	Vertical	322	1.99
2452MHz	Pass	PK	4.884G	54.46	74.00	-19.54	3	Vertical	322	1.99
2452MHz	Pass	AV	4.88398G	53.28	54.00	-0.72	3	Horizontal	30	1.00
2452MHz	Pass	PK	4.88388G	55.86	74.00	-18.14	3	Horizontal	30	1.00

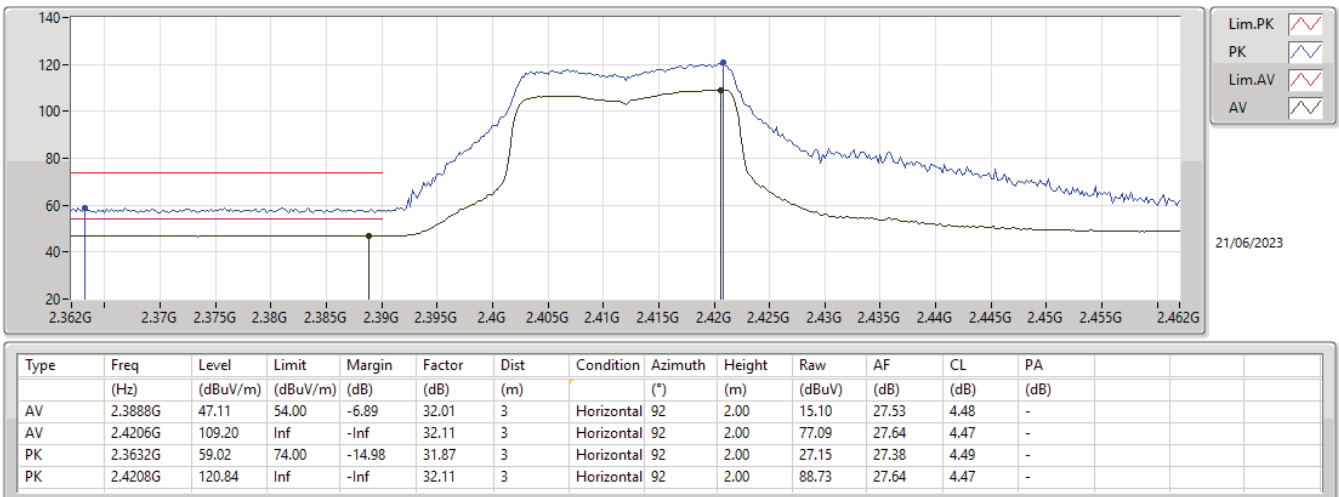
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX



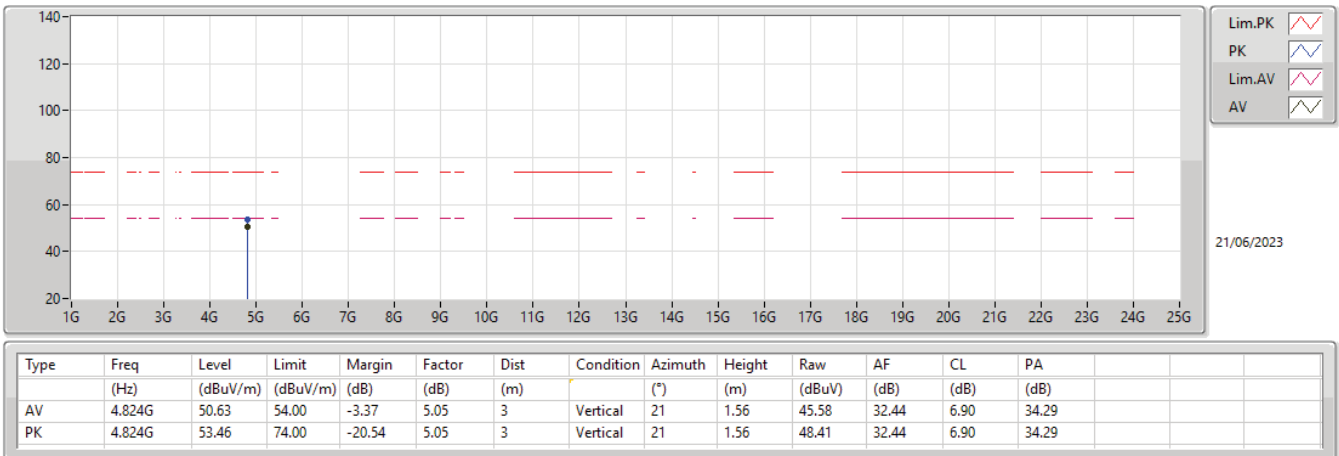
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2412MHz_TX



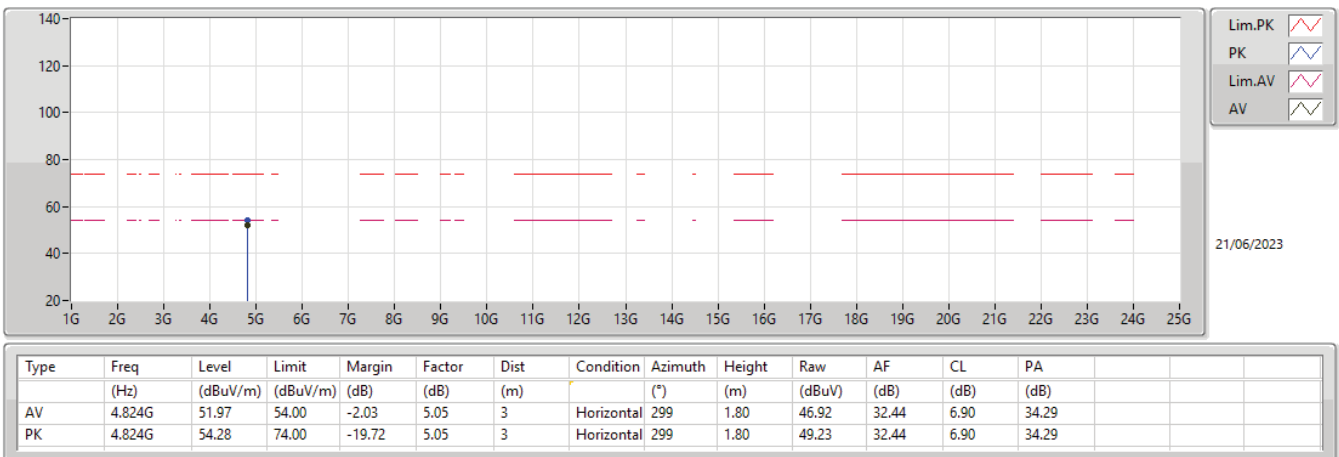
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2412MHz_TX



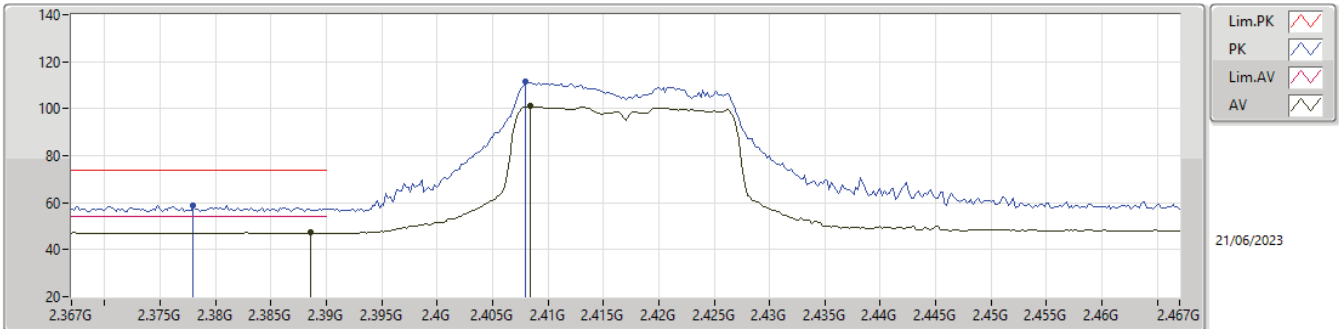
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

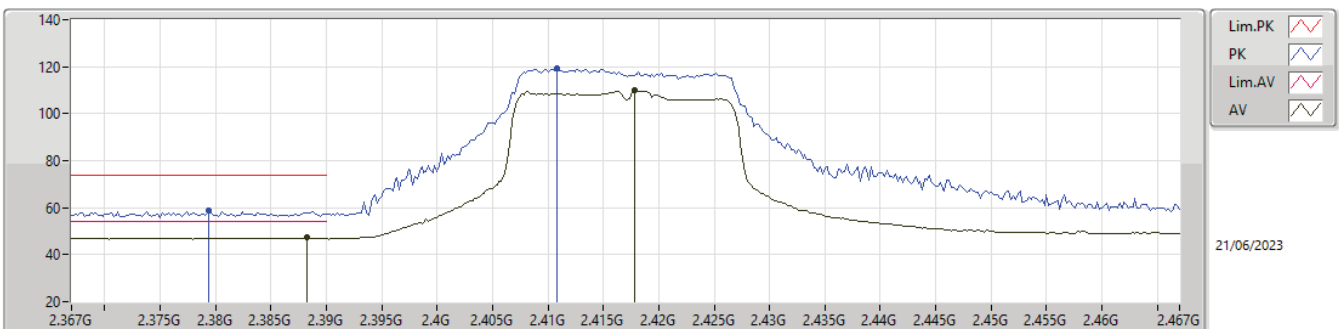
2417MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3886G	47.35	54.00	-6.65	32.01	3	Vertical	332	1.42	15.34	27.53	4.48	-
AV	2.4084G	101.03	Inf	-Inf	32.09	3	Vertical	332	1.42	68.94	27.62	4.47	-
PK	2.378G	58.84	74.00	-15.16	31.95	3	Vertical	332	1.42	26.89	27.47	4.48	-
PK	2.408G	111.59	Inf	-Inf	32.09	3	Vertical	332	1.42	79.50	27.62	4.47	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2417MHz_TX

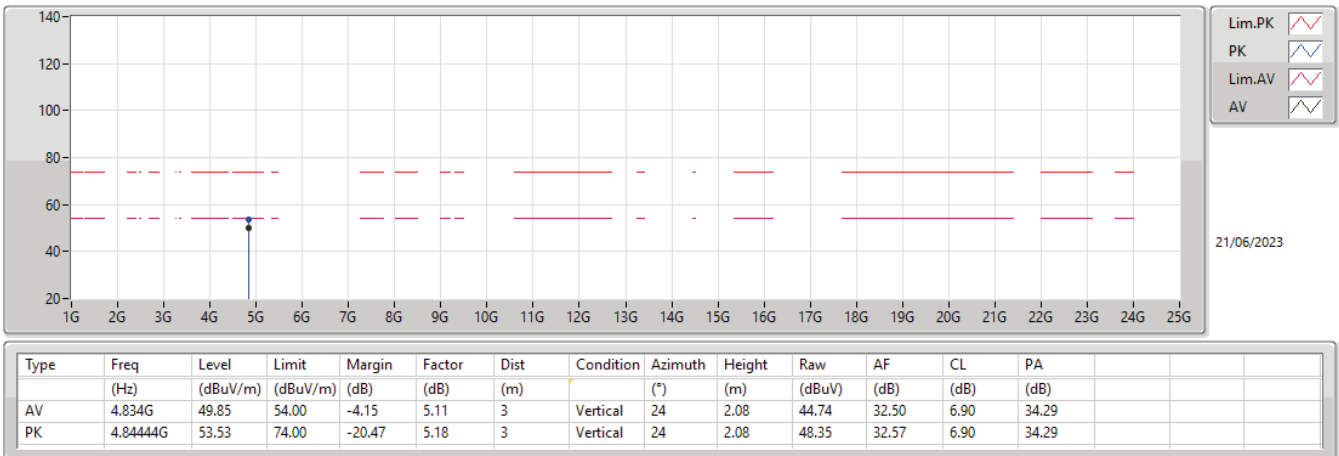


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3882G	47.35	54.00	-6.65	32.01	3	Horizontal	84	1.50	15.34	27.53	4.48	-
AV	2.4178G	109.77	Inf	-Inf	32.11	3	Horizontal	84	1.50	77.66	27.64	4.47	-
PK	2.3794G	58.72	74.00	-15.28	31.96	3	Horizontal	84	1.50	26.76	27.48	4.48	-
PK	2.4108G	119.55	Inf	-Inf	32.09	3	Horizontal	84	1.50	87.46	27.62	4.47	-



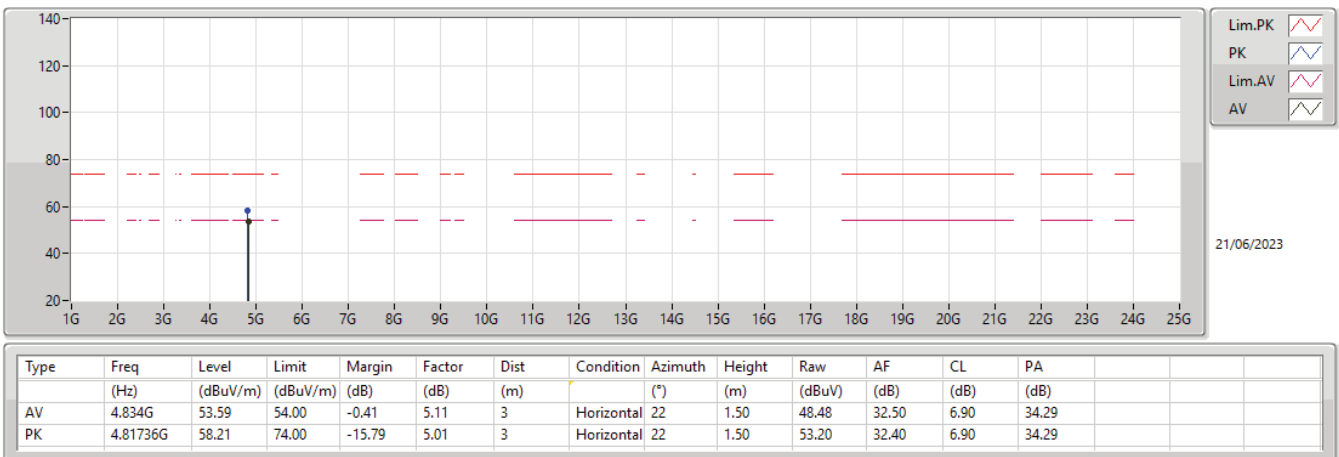
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2417MHz_TX



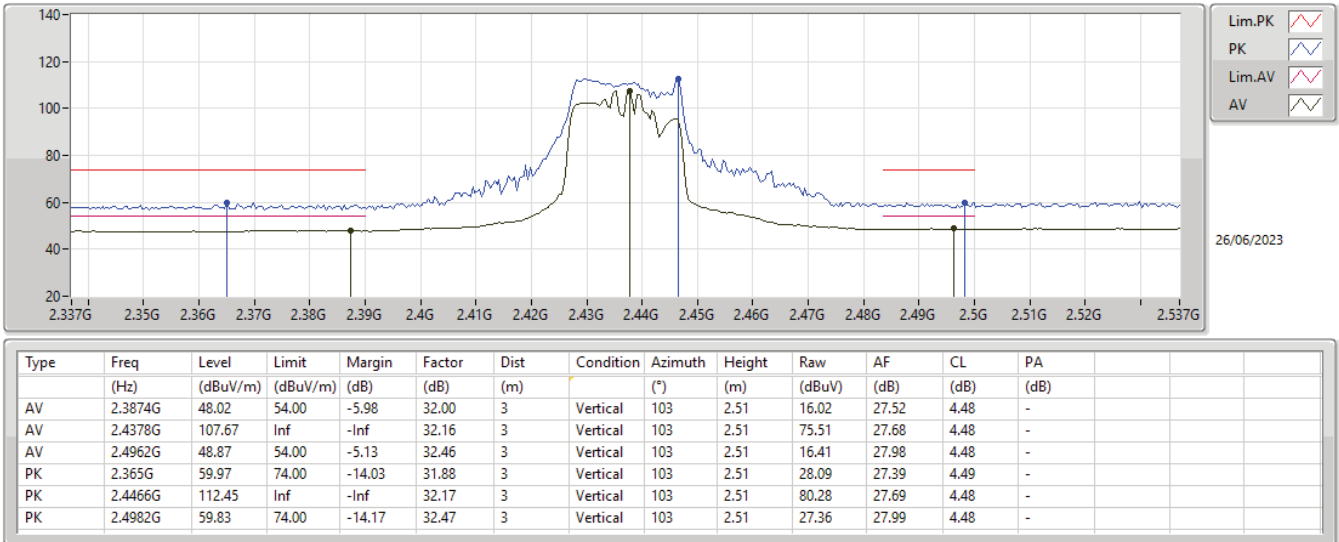
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2417MHz_TX



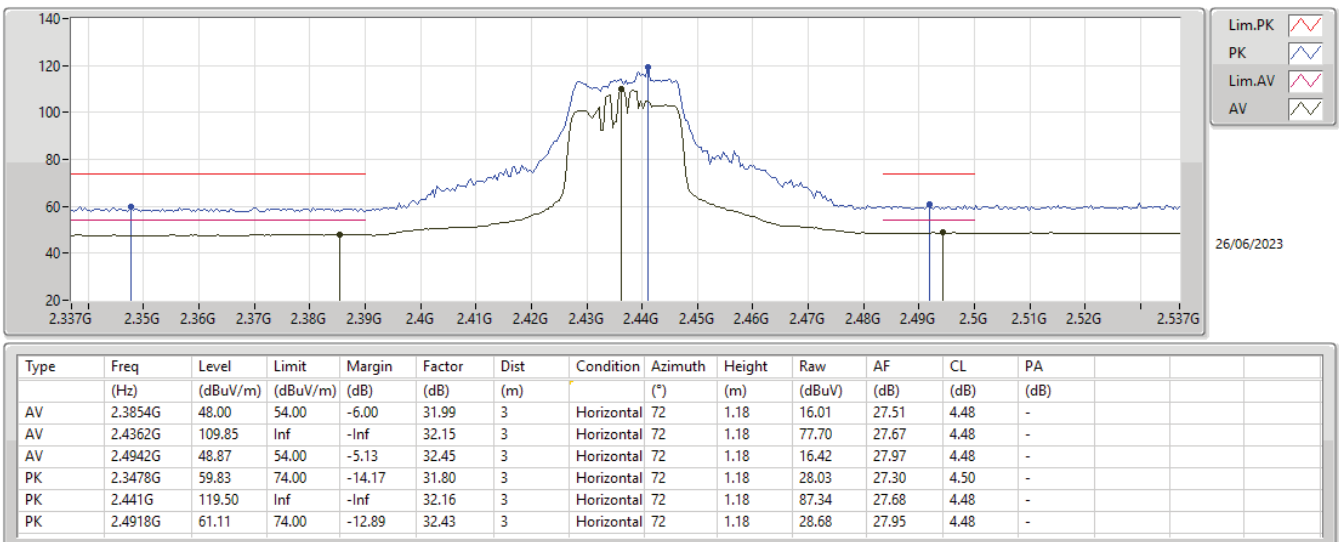
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX



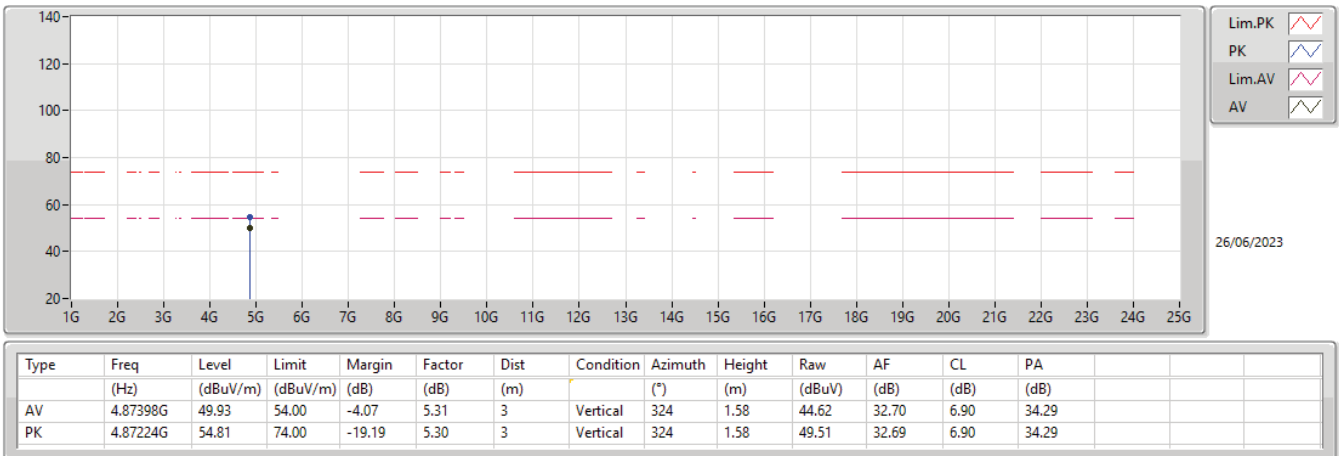
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2437MHz_TX



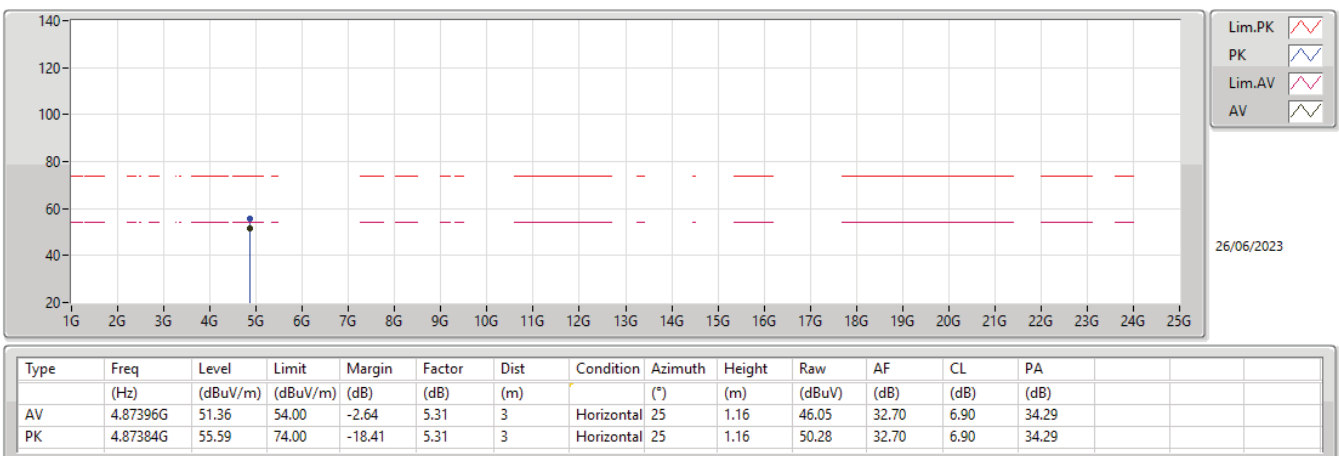
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2437MHz_TX



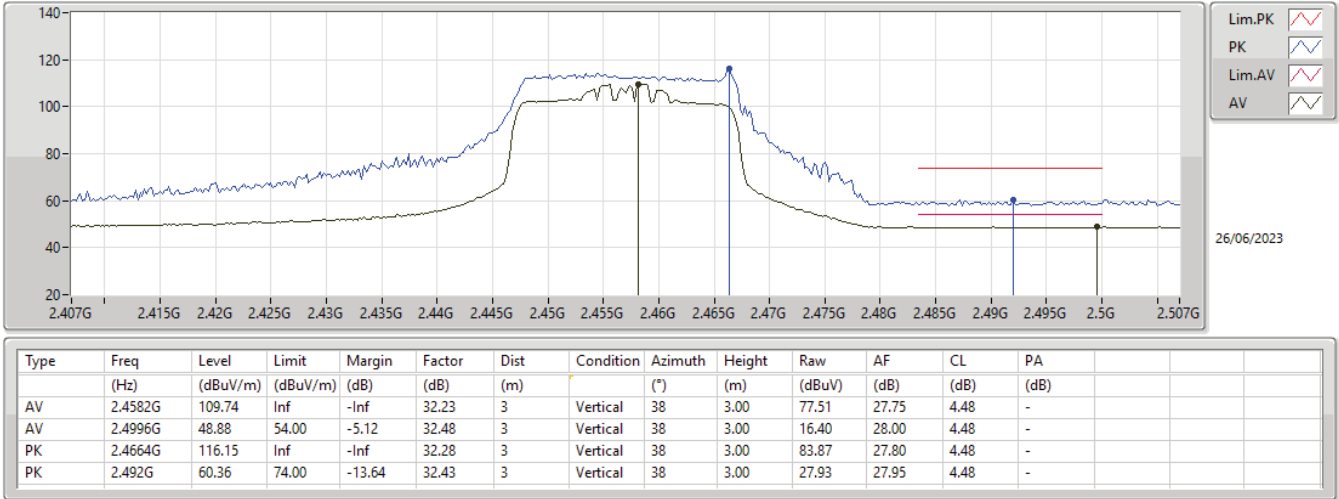
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX



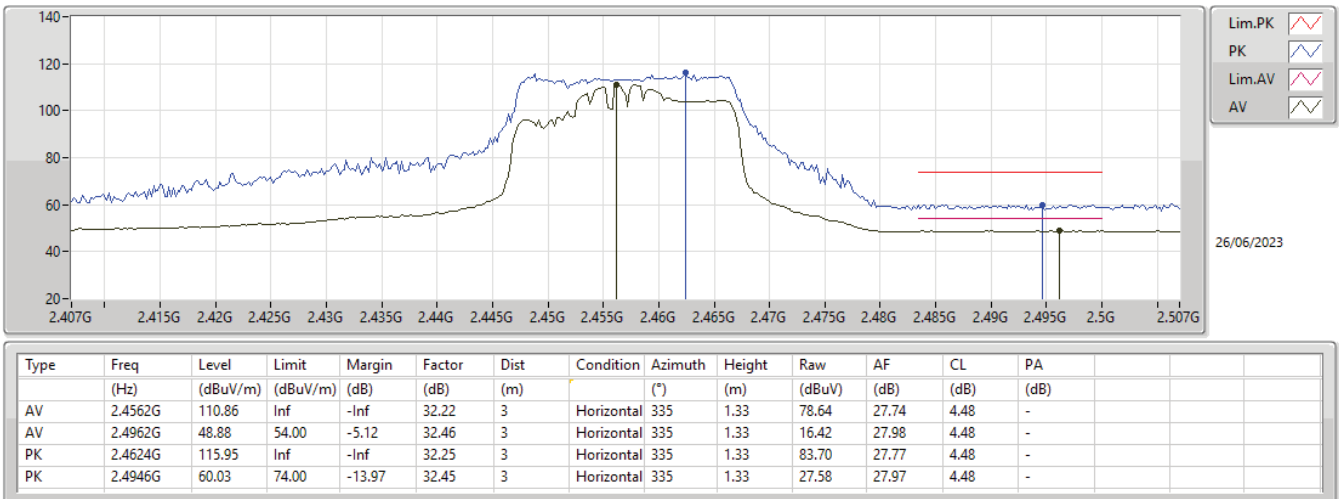
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2457MHz_TX



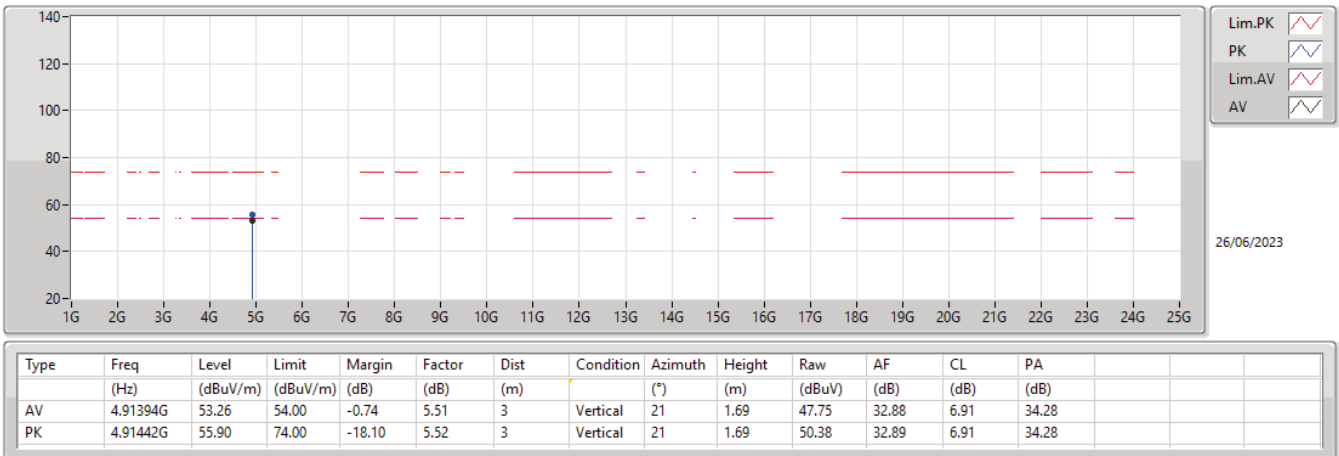
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2457MHz_TX



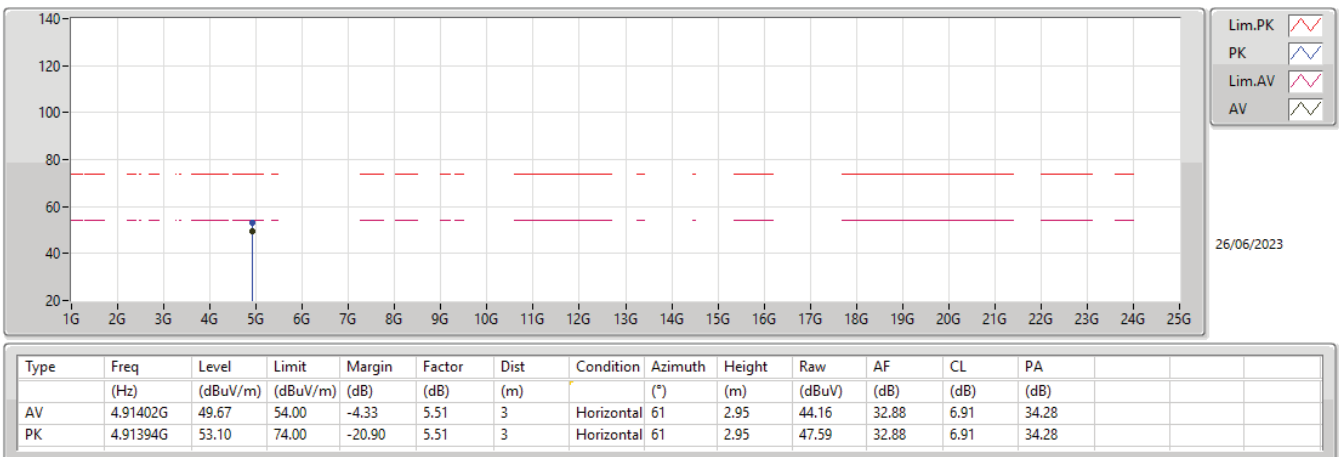
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2457MHz_TX



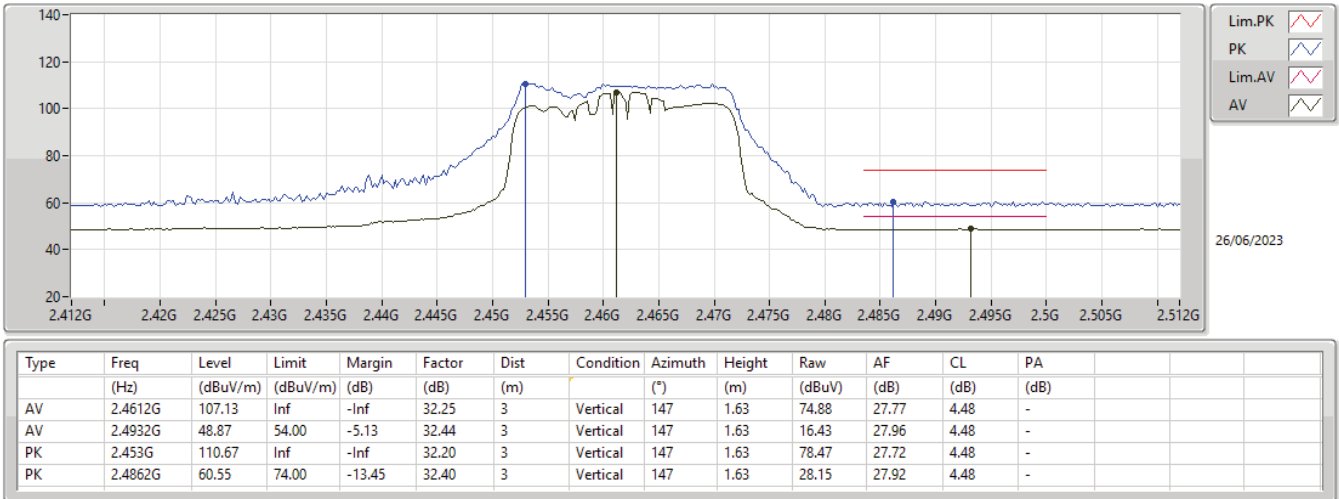
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2457MHz_TX



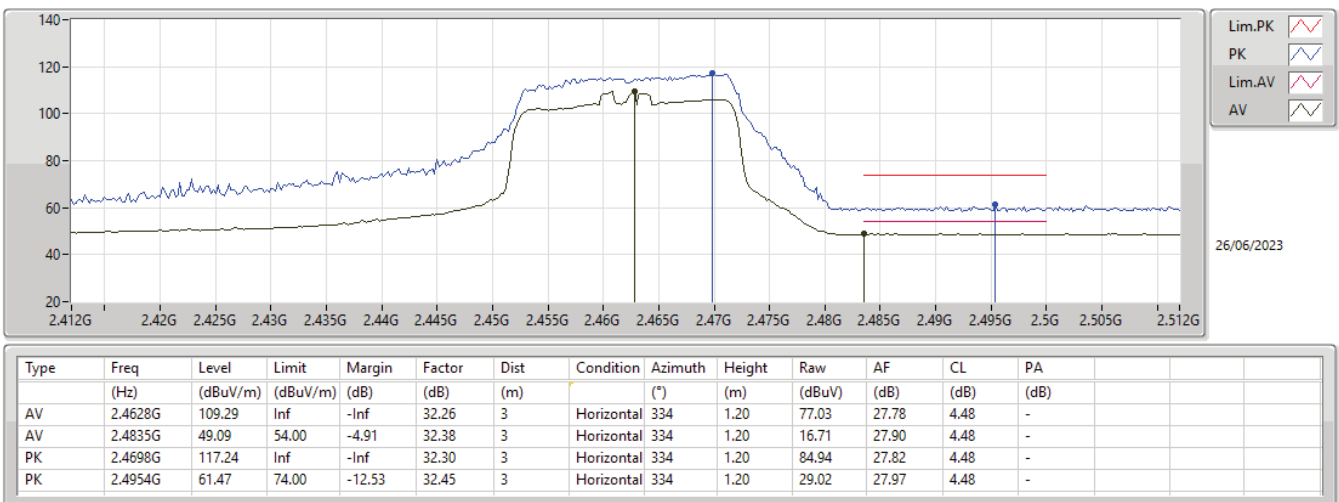
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

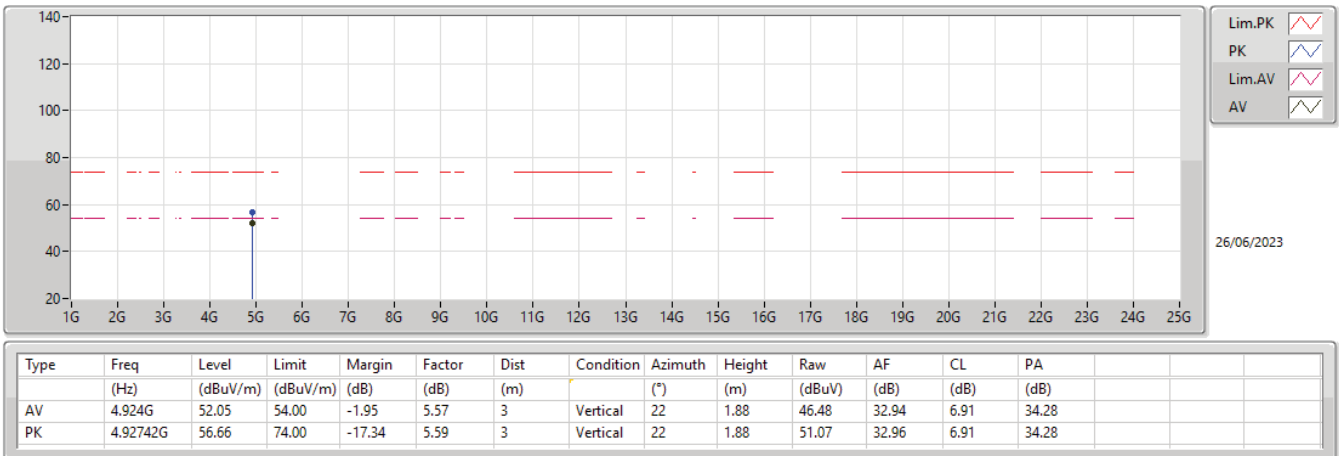
2462MHz_TX





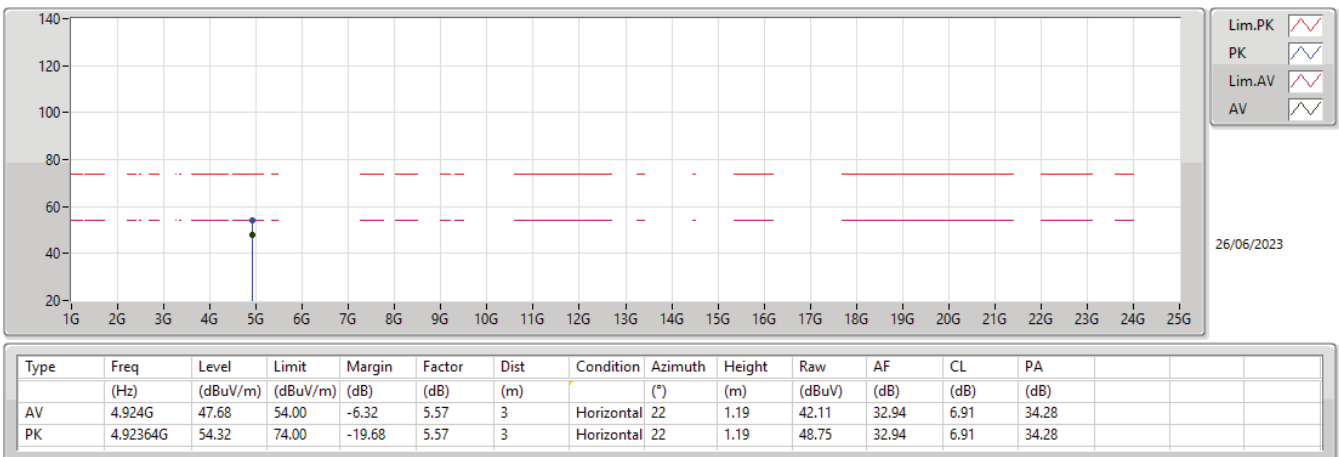
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2462MHz_TX



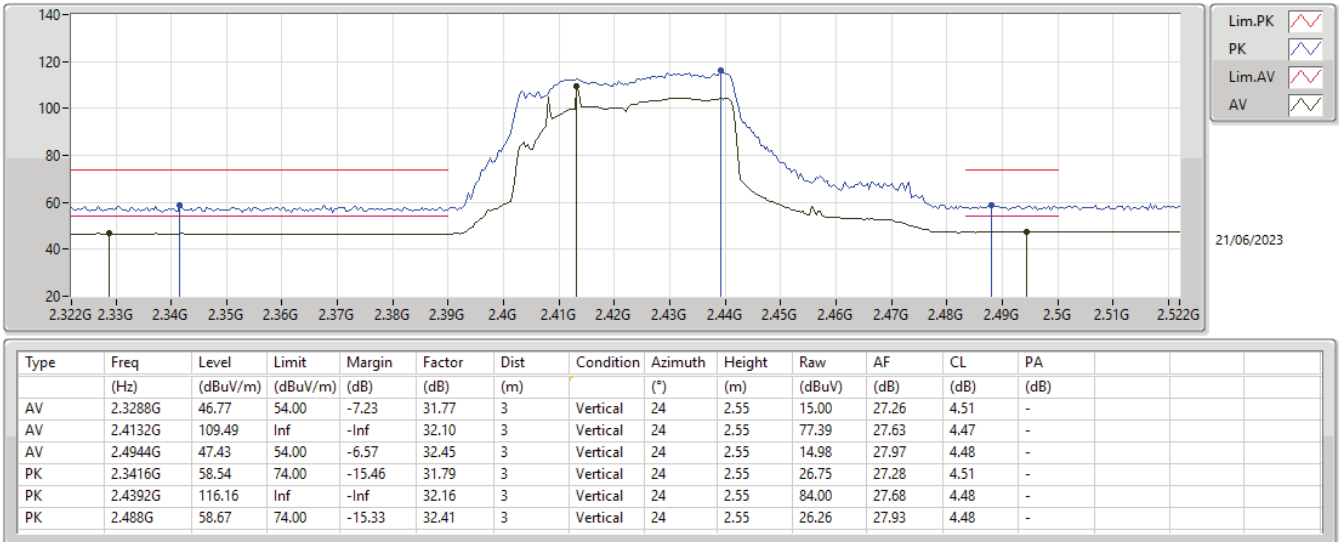
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX



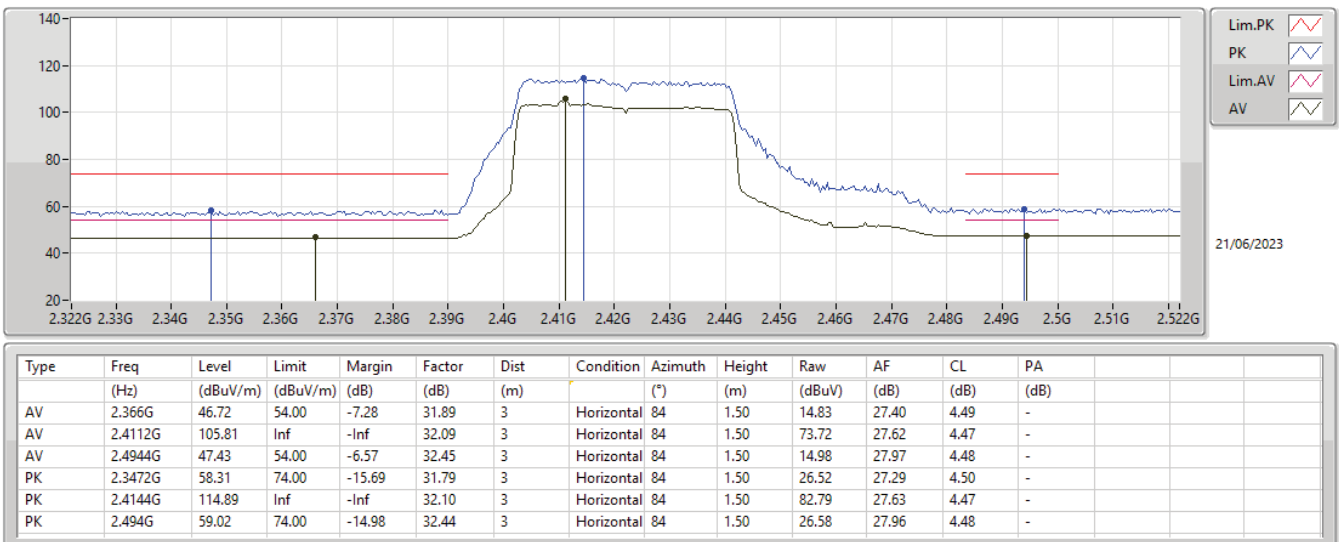
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX



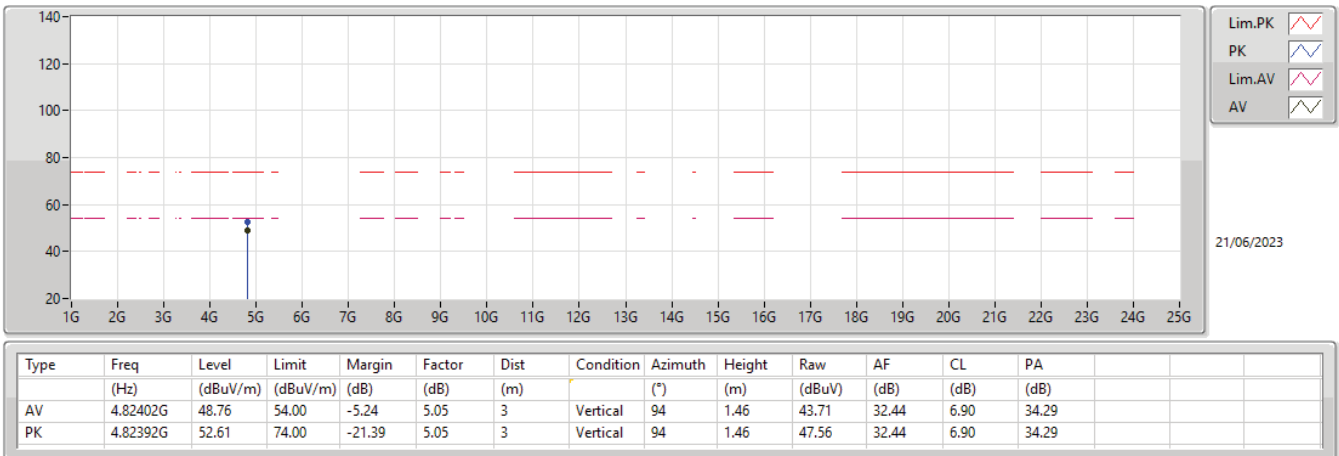
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX



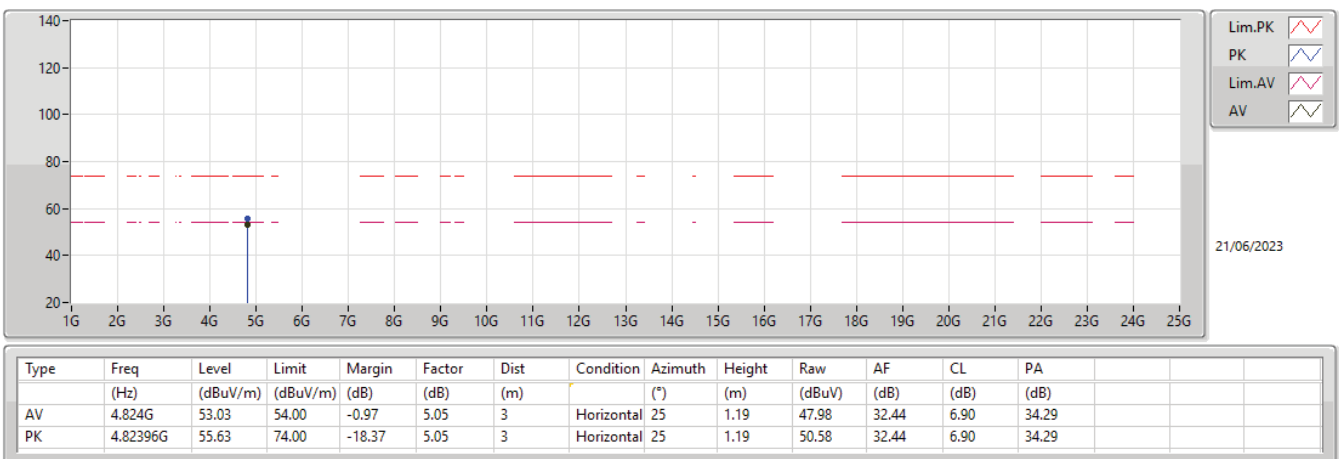
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2422MHz_TX



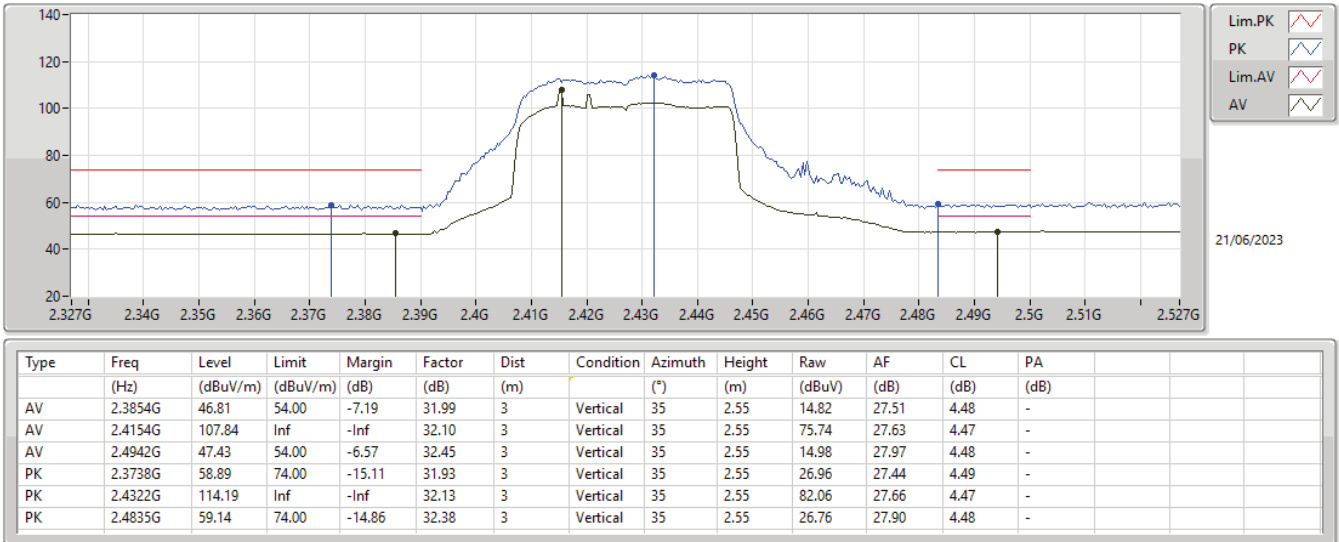
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX



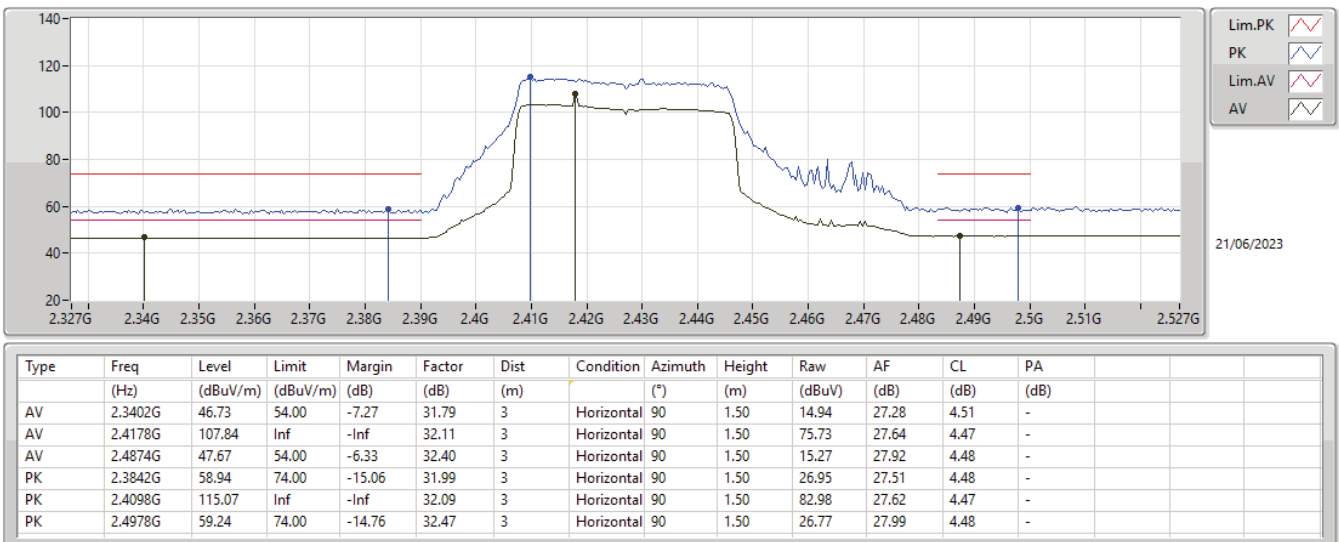
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2427MHz_TX



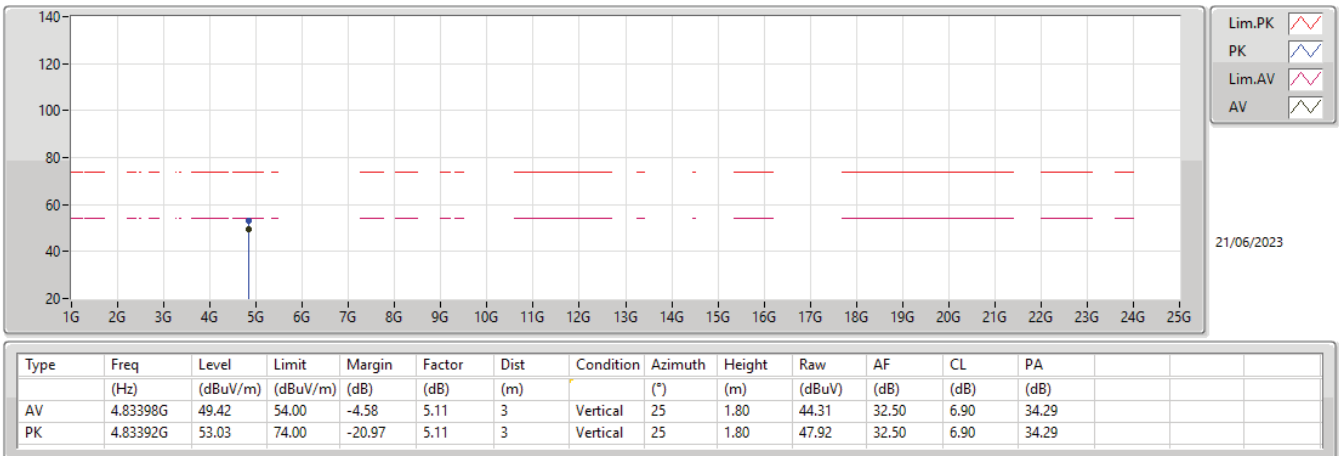
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2427MHz_TX



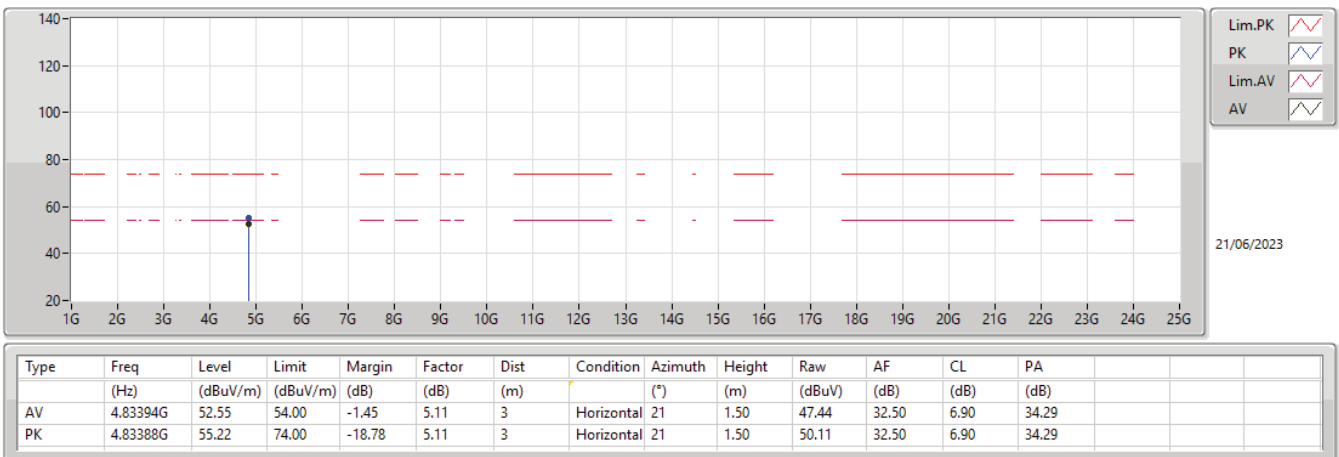
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2427MHz_TX



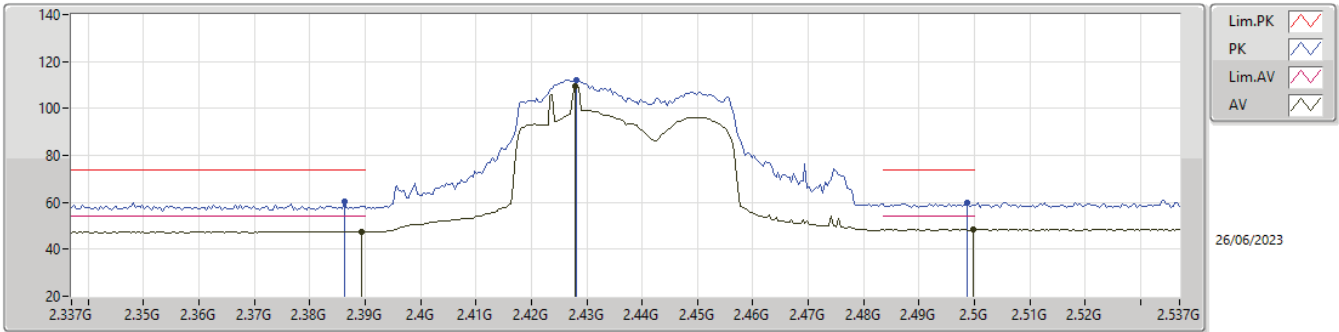
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2427MHz_TX



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

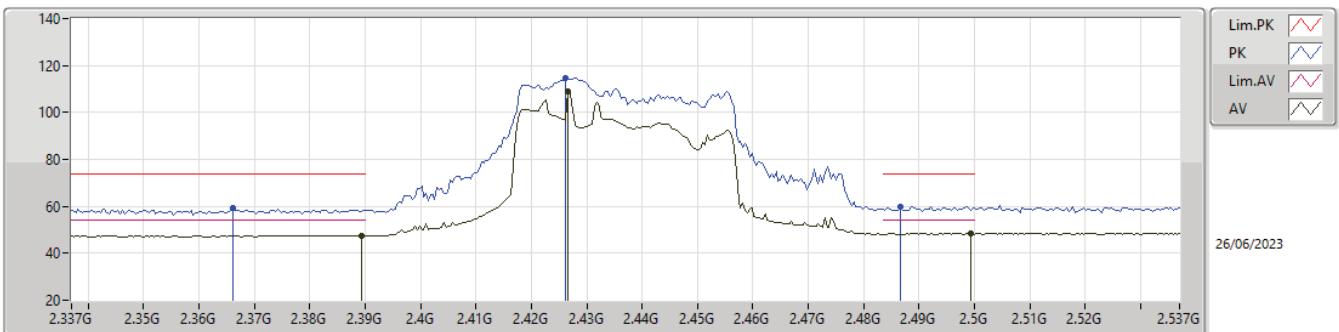
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.3894G	47.55	54.00	-6.45	32.02	3	Vertical	146	1.85	15.53	27.54	4.48	-
AV	2.4278G	109.64	Inf	-Inf	32.13	3	Vertical	146	1.85	77.51	27.66	4.47	-
AV	2.4998G	48.37	54.00	-5.63	32.48	3	Vertical	146	1.85	15.89	28.00	4.48	-
PK	2.3862G	60.45	74.00	-13.55	32.00	3	Vertical	146	1.85	28.45	27.52	4.48	-
PK	2.4282G	112.06	Inf	-Inf	32.13	3	Vertical	146	1.85	79.93	27.66	4.47	-
PK	2.4986G	59.96	74.00	-14.04	32.47	3	Vertical	146	1.85	27.49	27.99	4.48	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

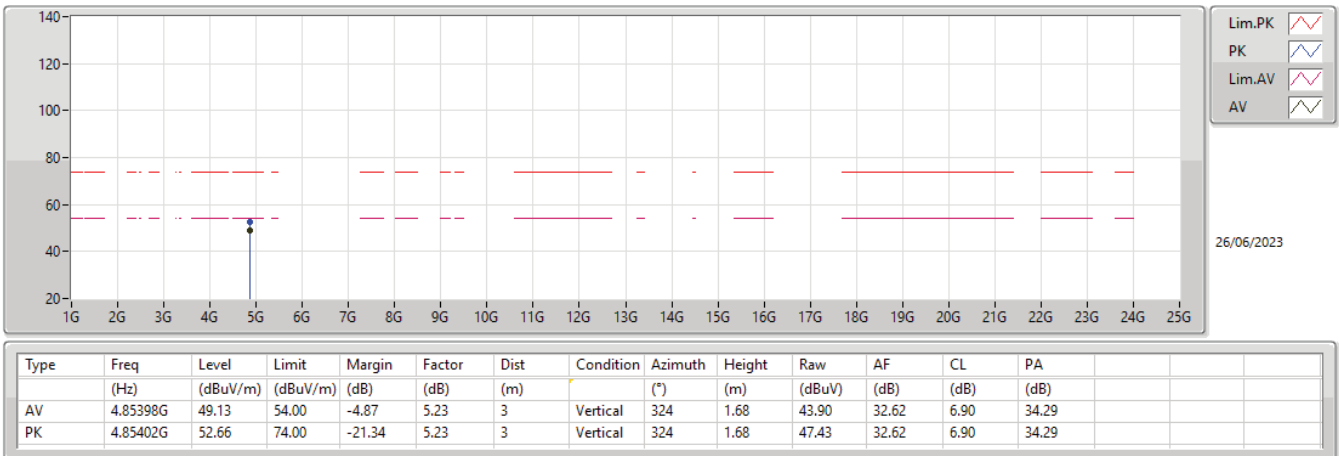
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.3894G	47.55	54.00	-6.45	32.02	3	Horizontal	340	1.72	15.53	27.54	4.48	-
AV	2.4266G	108.89	Inf	-Inf	32.12	3	Horizontal	340	1.72	76.77	27.65	4.47	-
AV	2.4994G	48.37	54.00	-5.63	32.48	3	Horizontal	340	1.72	15.89	28.00	4.48	-
PK	2.3862G	59.14	74.00	-14.86	31.89	3	Horizontal	340	1.72	27.25	27.40	4.49	-
PK	2.4262G	114.55	Inf	-Inf	32.12	3	Horizontal	340	1.72	82.43	27.65	4.47	-
PK	2.4866G	59.95	74.00	-14.05	32.40	3	Horizontal	340	1.72	27.55	27.92	4.48	-

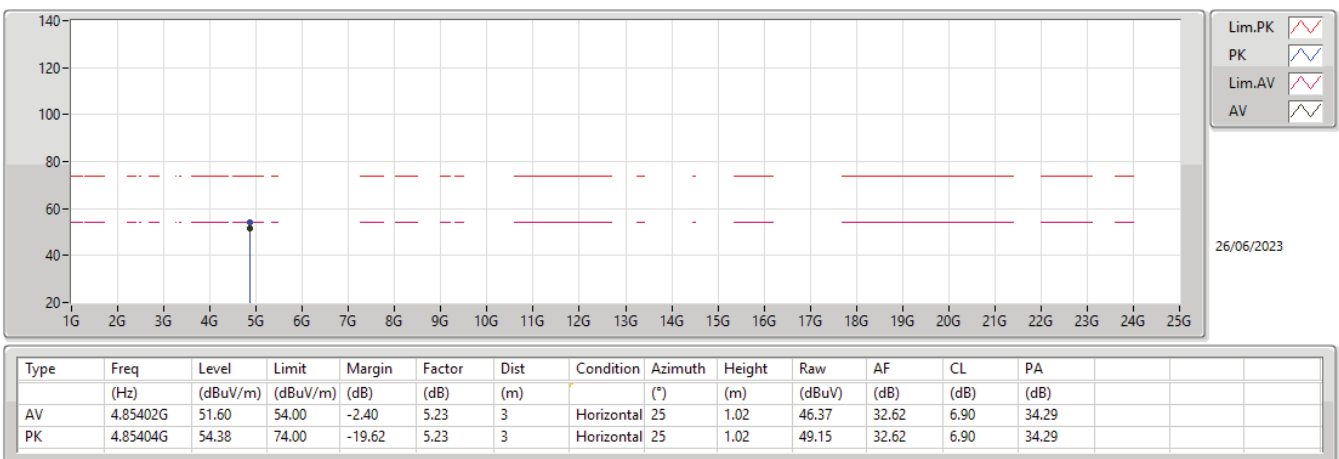
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX



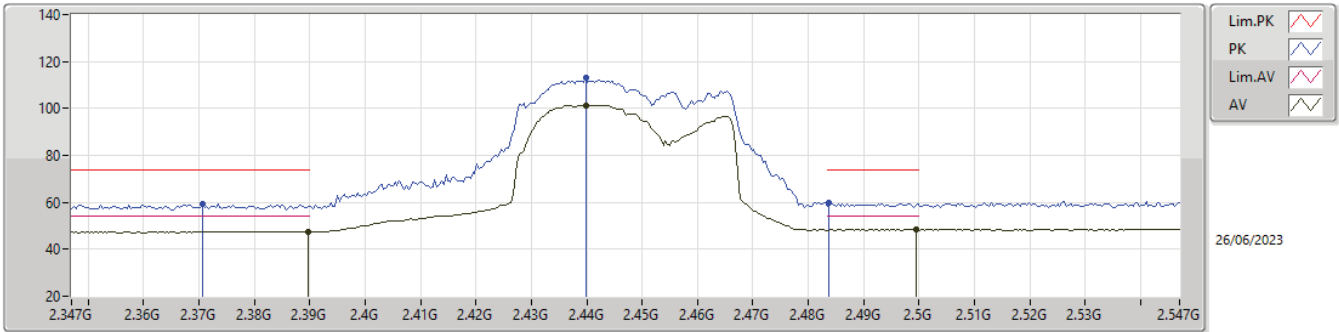
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

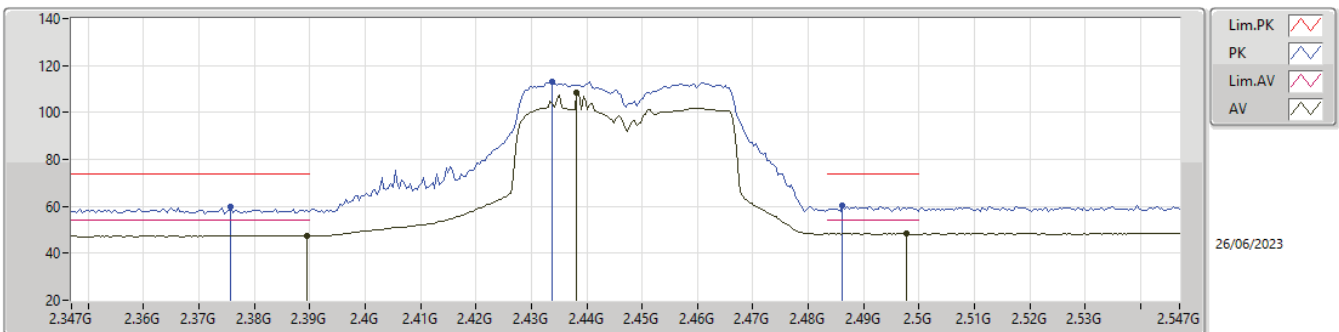
2447MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	47.55	54.00	-6.45	32.02	3	Vertical	175	1.87	15.53	27.54	4.48	-
AV	2.4398G	101.33	Inf	-Inf	32.16	3	Vertical	175	1.87	69.17	27.68	4.48	-
AV	2.4994G	48.37	54.00	-5.63	32.48	3	Vertical	175	1.87	15.89	28.00	4.48	-
PK	2.3706G	59.49	74.00	-14.51	31.91	3	Vertical	175	1.87	27.58	27.42	4.49	-
PK	2.4398G	112.88	Inf	-Inf	32.16	3	Vertical	175	1.87	80.72	27.68	4.48	-
PK	2.4838G	59.73	74.00	-14.27	32.38	3	Vertical	175	1.87	27.35	27.90	4.48	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

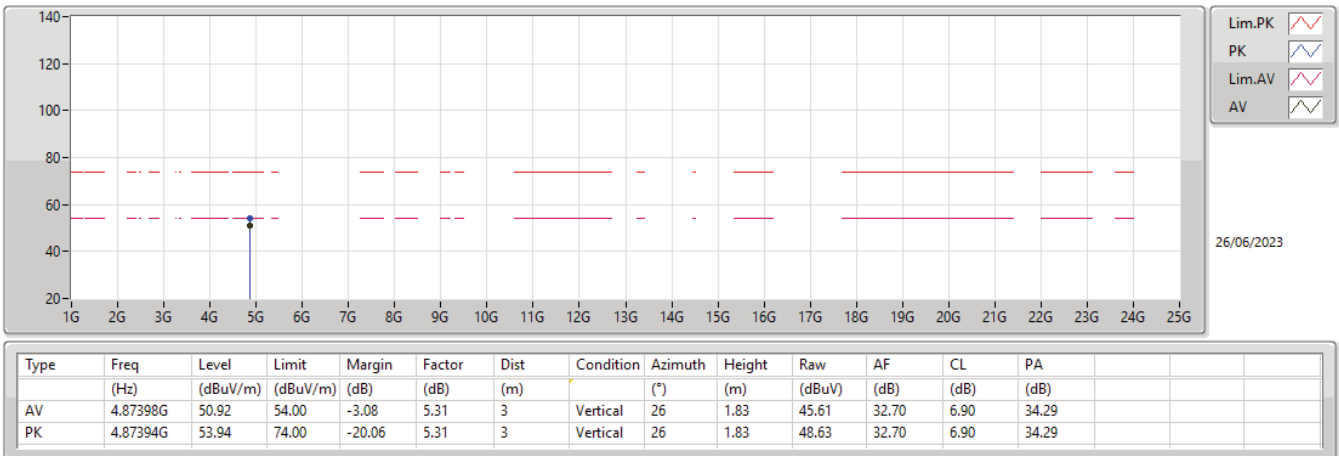
2447MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	47.55	54.00	-6.45	32.02	3	Horizontal	318	2.05	15.53	27.54	4.48	-
AV	2.4382G	108.35	Inf	-Inf	32.16	3	Horizontal	318	2.05	76.19	27.68	4.48	-
AV	2.4978G	48.37	54.00	-5.63	32.47	3	Horizontal	318	2.05	15.90	27.99	4.48	-
PK	2.3758G	59.76	74.00	-14.24	31.93	3	Horizontal	318	2.05	27.83	27.45	4.48	-
PK	2.4338G	113.25	Inf	-Inf	32.15	3	Horizontal	318	2.05	81.10	27.67	4.48	-
PK	2.4862G	60.42	74.00	-13.58	32.40	3	Horizontal	318	2.05	28.02	27.92	4.48	-

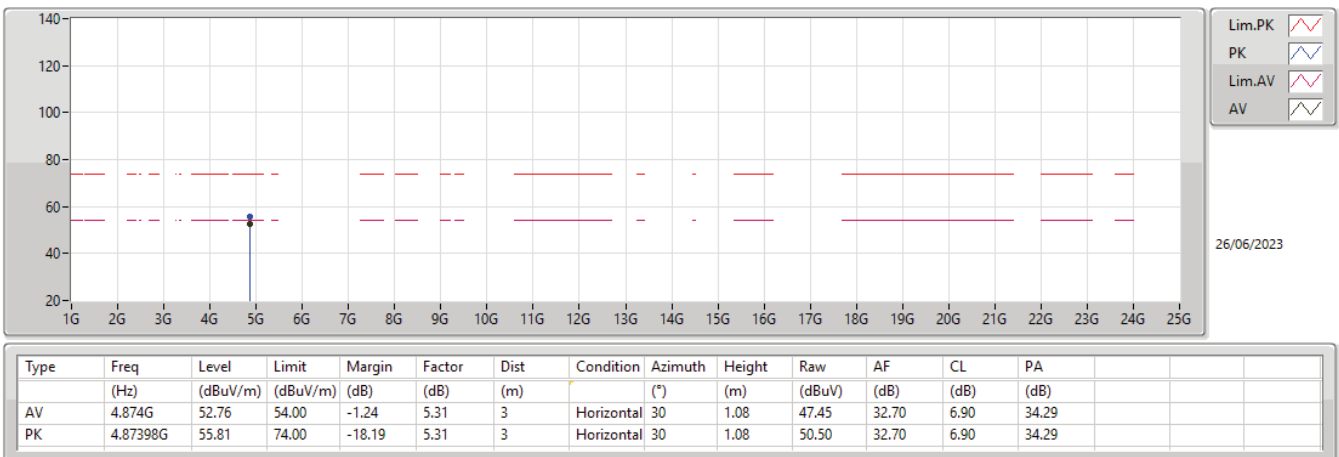
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2447MHz_TX



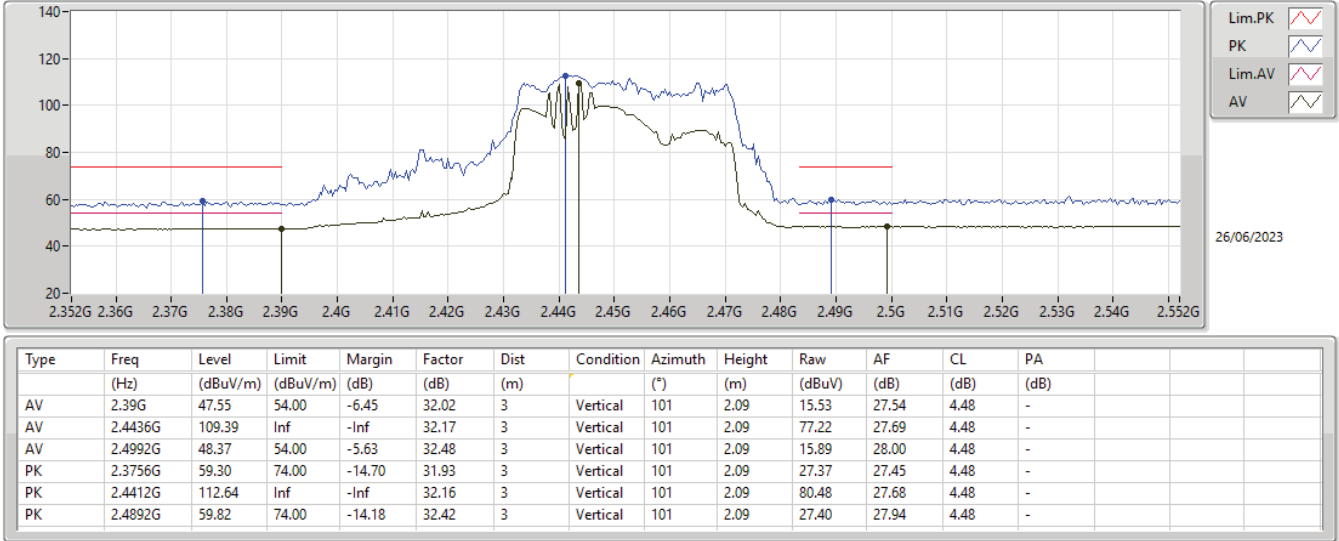
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2447MHz_TX



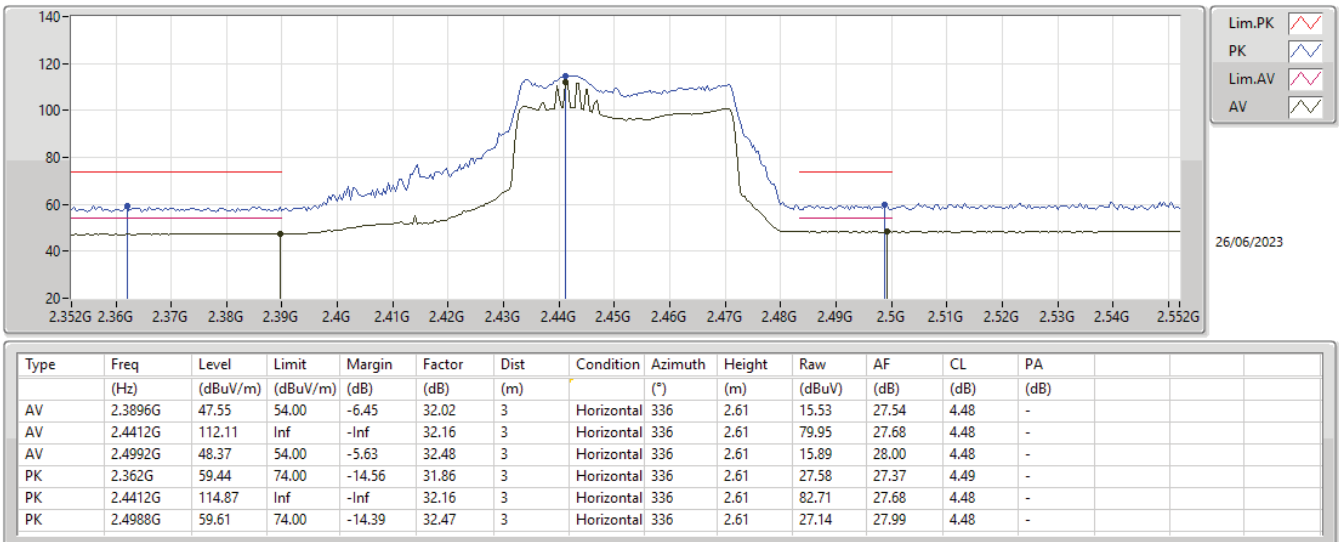
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX



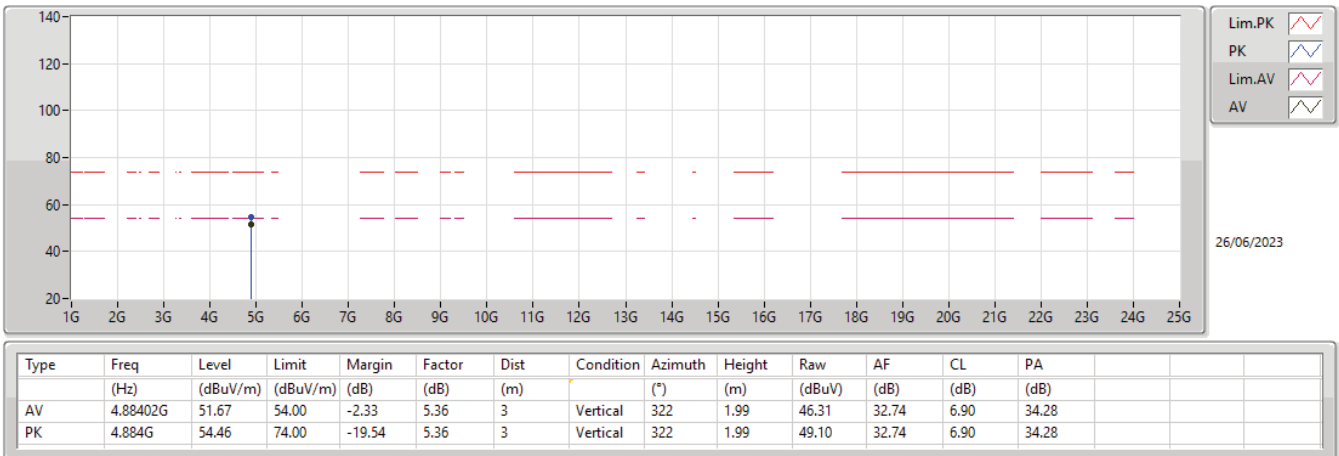
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX



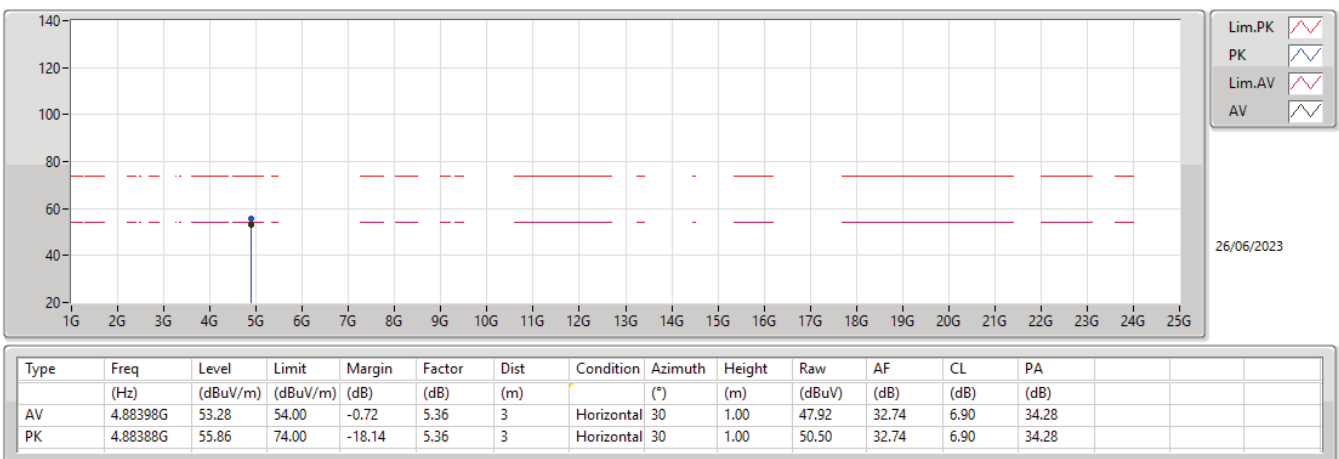
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX





Summary

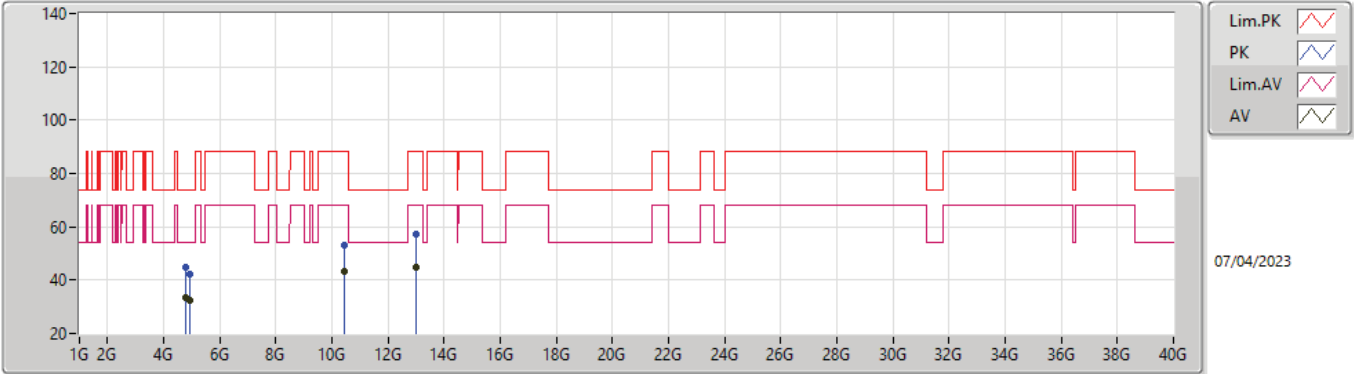
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.80478G	33.89	54.00	-20.11	Horizontal
Mode 2	Pass	AV	4.92455G	46.57	54.00	-7.43	Vertical



Result

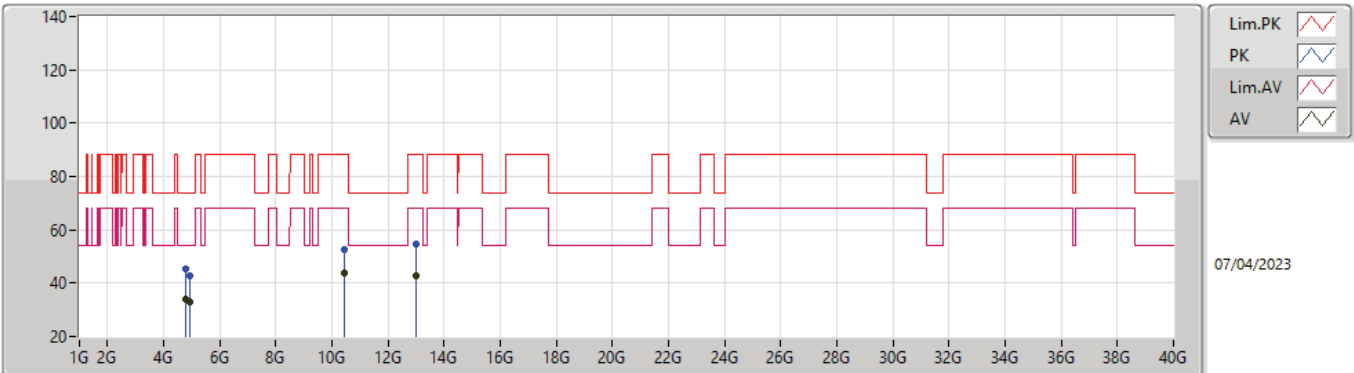
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	4.79872G	33.69	54.00	-20.31	2.95	3	Vertical	178	1.50	-
Mode 1	Pass	AV	4.92452G	32.60	54.00	-21.40	3.46	3	Vertical	222	1.11	-
Mode 1	Pass	AV	10.46696G	43.45	68.20	-24.75	11.72	3	Vertical	29	2.25	-
Mode 1	Pass	AV	13.01018G	44.99	68.20	-23.21	14.85	3	Vertical	68	1.56	-
Mode 1	Pass	PK	4.81114G	44.86	74.00	-29.14	3.04	3	Vertical	178	1.50	-
Mode 1	Pass	PK	4.92394G	42.30	74.00	-31.70	3.46	3	Vertical	222	1.11	-
Mode 1	Pass	PK	10.46608G	53.27	88.20	-34.93	11.72	3	Vertical	29	2.25	-
Mode 1	Pass	PK	13.01016G	57.16	88.20	-31.04	14.85	3	Vertical	68	1.56	-
Mode 1	Pass	AV	4.80478G	33.89	54.00	-20.11	2.99	3	Horizontal	1	1.43	-
Mode 1	Pass	AV	4.92455G	32.78	54.00	-21.22	3.46	3	Horizontal	229	1.25	-
Mode 1	Pass	AV	10.46665G	43.67	68.20	-24.53	11.72	3	Horizontal	250	1.25	-
Mode 1	Pass	AV	13.01057G	42.57	68.20	-25.63	14.85	3	Horizontal	267	1.04	-
Mode 1	Pass	PK	4.80568G	45.10	74.00	-28.90	2.99	3	Horizontal	1	1.43	-
Mode 1	Pass	PK	4.92403G	42.53	74.00	-31.47	3.46	3	Horizontal	229	1.25	-
Mode 1	Pass	PK	10.46628G	52.45	88.20	-35.75	11.72	3	Horizontal	250	1.25	-
Mode 1	Pass	PK	13.01069G	54.76	88.20	-33.44	14.85	3	Horizontal	267	1.04	-
Mode 2	Pass	AV	4.81072G	34.12	54.00	-19.88	3.03	3	Vertical	112	2.20	-
Mode 2	Pass	AV	4.92455G	46.57	54.00	-7.43	3.46	3	Vertical	300	1.00	-
Mode 2	Pass	AV	10.46072G	58.72	68.20	-9.48	11.70	3	Vertical	120	1.32	-
Mode 2	Pass	AV	13.01065G	46.28	68.20	-21.92	14.85	3	Vertical	260	2.12	-
Mode 2	Pass	PK	4.80978G	43.75	74.00	-30.25	3.03	3	Vertical	112	2.20	-
Mode 2	Pass	PK	4.92463G	62.35	74.00	-11.65	3.46	3	Vertical	300	1.00	-
Mode 2	Pass	PK	10.46042G	58.92	88.20	-29.28	11.70	3	Vertical	120	1.32	-
Mode 2	Pass	PK	13.01038G	54.38	88.20	-33.82	14.85	3	Vertical	260	2.12	-
Mode 2	Pass	AV	4.81076G	32.24	54.00	-21.76	3.03	3	Horizontal	142	3.00	-
Mode 2	Pass	AV	4.92456G	45.32	54.00	-8.68	3.46	3	Horizontal	132	1.20	-
Mode 2	Pass	AV	10.45729G	56.82	68.20	-11.38	11.69	3	Horizontal	92	1.30	-
Mode 2	Pass	AV	13.01046G	48.25	68.20	-19.95	14.85	3	Horizontal	220	2.00	-
Mode 2	Pass	PK	4.81112G	43.24	74.00	-30.76	3.04	3	Horizontal	142	3.00	-
Mode 2	Pass	PK	4.92451G	62.72	74.00	-11.28	3.46	3	Horizontal	132	1.20	-
Mode 2	Pass	PK	10.46125G	58.57	88.20	-29.63	11.70	3	Horizontal	92	1.30	-
Mode 2	Pass	PK	13.01075G	55.69	88.20	-32.51	14.85	3	Horizontal	220	2.00	-

Radiated Emissions above 1GHz_Mode 1



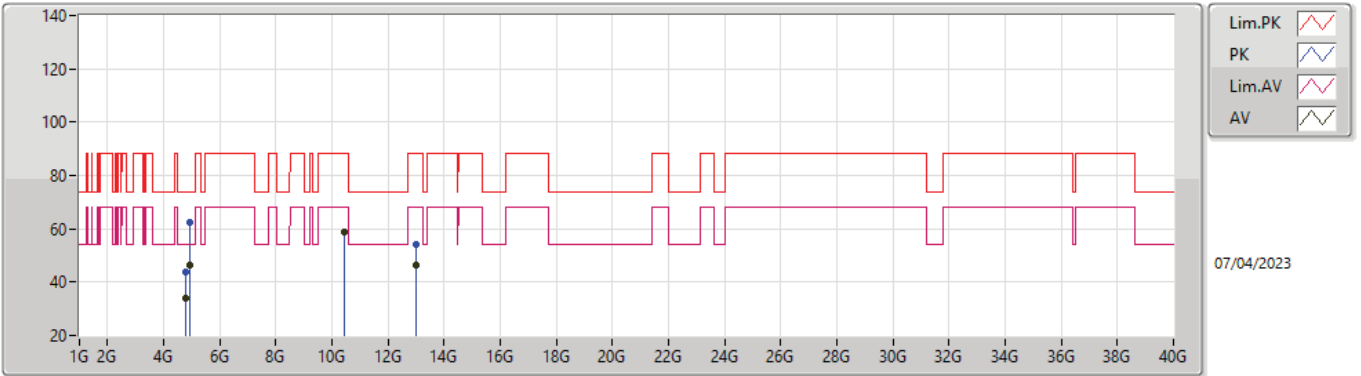
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.79872G	33.69	54.00	-20.31	2.95	3	Vertical	178	1.50	30.74	32.29	5.32	34.66
AV	4.92452G	32.60	54.00	-21.40	3.46	3	Vertical	222	1.11	29.14	32.70	5.41	34.65
AV	10.46696G	43.45	68.20	-24.75	11.72	3	Vertical	29	2.25	31.73	38.47	8.00	34.75
AV	13.01018G	44.99	68.20	-23.21	14.85	3	Vertical	68	1.56	30.14	39.60	8.74	33.49
PK	4.81114G	44.86	74.00	-29.14	3.04	3	Vertical	178	1.50	41.82	32.37	5.33	34.66
PK	4.92394G	42.30	74.00	-31.70	3.46	3	Vertical	222	1.11	38.84	32.70	5.41	34.65
PK	10.46608G	53.27	88.20	-34.93	11.72	3	Vertical	29	2.25	41.55	38.47	8.00	34.75
PK	13.01016G	57.16	88.20	-31.04	14.85	3	Vertical	68	1.56	42.31	39.60	8.74	33.49

Radiated Emissions above 1GHz_Mode 1



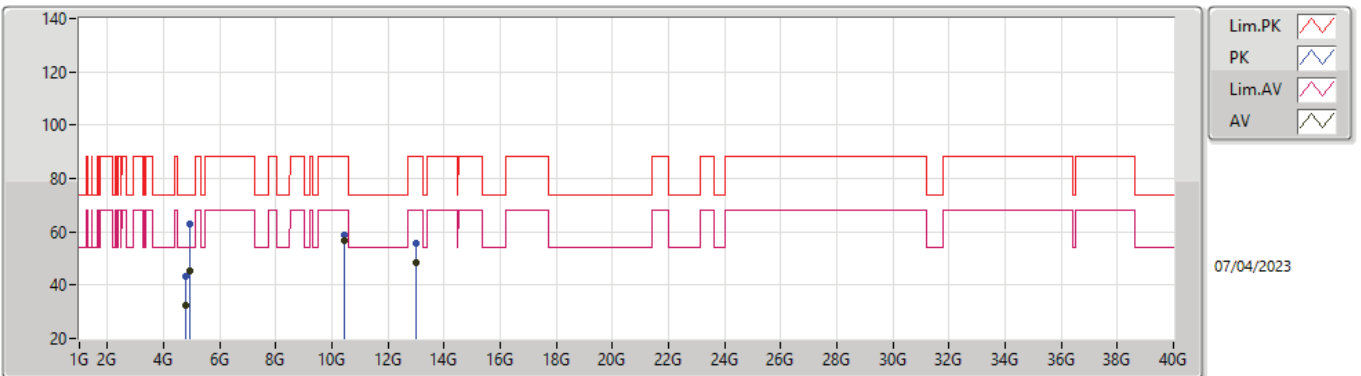
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.80478G	33.89	54.00	-20.11	2.99	3	Horizontal	1	1.43	30.90	32.33	5.32	34.66
AV	4.92455G	32.78	54.00	-21.22	3.46	3	Horizontal	229	1.25	29.32	32.70	5.41	34.65
AV	10.46665G	43.67	68.20	-24.53	11.72	3	Horizontal	250	1.25	31.95	38.47	8.00	34.75
AV	13.01057G	42.57	68.20	-25.63	14.85	3	Horizontal	267	1.04	27.72	39.60	8.74	33.49
PK	4.80568G	45.10	74.00	-28.90	2.99	3	Horizontal	1	1.43	42.11	32.33	5.32	34.66
PK	4.924036G	42.53	74.00	-31.47	3.46	3	Horizontal	229	1.25	39.07	32.70	5.41	34.65
PK	10.46628G	52.45	88.20	-35.75	11.72	3	Horizontal	250	1.25	40.73	38.47	8.00	34.75
PK	13.01069G	54.76	88.20	-33.44	14.85	3	Horizontal	267	1.04	39.91	39.60	8.74	33.49

Radiated Emissions above 1GHz_Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.81072G	34.12	54.00	-19.88	3.03	3	Vertical	112	2.20	31.09	32.36	5.33	34.66
AV	4.92455G	46.57	54.00	-7.43	3.46	3	Vertical	300	1.00	43.11	32.70	5.41	34.65
AV	10.46072G	58.72	68.20	-9.48	11.70	3	Vertical	120	1.32	47.02	38.46	8.00	34.76
AV	13.01065G	46.28	68.20	-21.92	14.85	3	Vertical	260	2.12	31.43	39.60	8.74	33.49
PK	4.80978G	43.75	74.00	-30.25	3.03	3	Vertical	112	2.20	40.72	32.36	5.33	34.66
PK	4.92463G	62.35	74.00	-11.65	3.46	3	Vertical	300	1.00	58.89	32.70	5.41	34.65
PK	10.46042G	58.92	88.20	-29.28	11.70	3	Vertical	120	1.32	47.22	38.46	8.00	34.76
PK	13.01038G	54.38	88.20	-33.82	14.85	3	Vertical	260	2.12	39.53	39.60	8.74	33.49

Radiated Emissions above 1GHz_Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.81076G	32.24	54.00	-21.76	3.03	3	Horizontal	142	3.00	29.21	32.36	5.33	34.66
AV	4.92456G	45.32	54.00	-8.68	3.46	3	Horizontal	132	1.20	41.86	32.70	5.41	34.65
AV	10.45729G	56.82	68.20	-11.38	11.69	3	Horizontal	92	1.30	45.13	38.46	7.99	34.76
AV	13.01046G	48.25	68.20	-19.95	14.85	3	Horizontal	220	2.00	33.40	39.60	8.74	33.49
PK	4.81112G	43.24	74.00	-30.76	3.04	3	Horizontal	142	3.00	40.20	32.37	5.33	34.66
PK	4.92451G	62.72	74.00	-11.28	3.46	3	Horizontal	132	1.20	59.26	32.70	5.41	34.65
PK	10.46125G	58.57	88.20	-29.63	11.70	3	Horizontal	92	1.30	46.87	38.46	8.00	34.76
PK	13.01075G	55.69	88.20	-32.51	14.85	3	Horizontal	220	2.00	40.84	39.60	8.74	33.49