

FCC Radio Test Report

FCC ID : HDC-17600082
Equipment : WiFi 7 Outdoor AP
Brand Name : **Adtran**
Model Name : SDG-9712oYYYYYYY(Y can be 0-9, a-z, A-Z, blank, "+" or "-" or "#")
Part Number : 17600082FYYYYYYY(Y can be 0-9, a-z, A-Z, blank, "+" or "-" or "#")
Applicant : Adtran
901 Explorer Boulevard, Huntsville, Alabama,
United States,35806-2807
Manufacturer : XAVi Technologies Corporation
22F., No.69, Sec. 2, Guangfu Rd., Sanchong
Dist., New Taipei City 241, Taiwan (R.O.C.)
Standard : 47 CFR FCC Part 15.247

The product was received on Nov. 04, 2024, and testing was started from Nov. 13, 2024 and completed on Dec. 04, 2024. 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: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	8
1.3 Testing Location Information	8
1.4 Measurement Uncertainty	9
2 TEST CONFIGURATION OF EUT.....	10
2.1 Test Channel Mode	10
2.2 The Worst Case Measurement Configuration.....	12
2.3 Accessories	13
2.4 Support Equipment.....	13
2.5 Test Setup Diagram	14
3 TRANSMITTER TEST RESULT	15
3.1 AC Power-line Conducted Emissions	15
3.2 DTS Bandwidth.....	17
3.3 Maximum Conducted Output Power	18
3.4 Power Spectral Density	20
3.5 Emissions in Non-restricted Frequency Bands	21
3.6 Emissions in Restricted Frequency Bands.....	22
4 TEST EQUIPMENT AND CALIBRATION DATA.....	26
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF DTS BANDWIDTH	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY	
APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX G. TEST RESULTS OF RADIATED EMISSION CO-LOCATION	
APPENDIX H. TEST PHOTOS	
PHOTOGRAPHS OF EUT V02	



History of this test report

Report No.	Version	Description	Issued Date
FR4O2940AC	01	Initial issue of report	Jan. 15, 2025

Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

Reviewed by: Ryan Hsiao

Report Producer: Julie Tseng

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), be(EHT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax(HEW40) , be(EHT40)	2422-2452	3-9 [7]

Non-Beamforming

Band	Mode	BWch	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11b	20	4TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11g	20	4TX
2.4-2.4835GHz	802.11be EHT20	20	4TX
2.4-2.4835GHz	802.11be EHT40	40	4TX

Beamforming

Band	Mode	BWch	Nant
2.4-2.4835GHz	802.11be EHT20-BF	20	4TX
2.4-2.4835GHz	802.11be EHT40-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.
- EHT20, EHT40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- BWch is the nominal channel bandwidth.
- Evaluated EHT20/EHT40 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40/HEW20/HEW40 mode are the same or lower than EHT20/EHT40.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	GALTRONICS	60-3763-03-1	PCB	I-Pex	2.4G+5G	Radio 1+Radio 2
2	GALTRONICS	60-3764-03-2	PCB	I-Pex	2.4G+5G	Radio 1+Radio 2
3	GALTRONICS	60-3763-03-1	PCB	I-Pex	2.4G+5G	Radio 1+Radio 2
4	GALTRONICS	60-3765-03-2	PCB	I-Pex	2.4G+5G	Radio 1+Radio 2
5	GALTRONICS	60-2917-03	PCB	I-Pex	5G	Radio 2
6	GALTRONICS	60-3763-03-2	PCB	I-Pex	SM-DFS	Radio 1+Radio 2

Ant.	Port	Gain (dBi)				
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3
1	1	6.32	6.69	7.12	7.23	6.26
2	2	5.41	5.48	5.33	5.66	4.49
3	3	4.46	6.60	6.94	6.33	5.81
4	4	4.93	5.86	5.91	5.78	5.79
5	5	-	3.66	3.76	4.22	4.02
6	6	4.08	4.48	4.54	4.18	3.90

Composite Gain (dBi)					
-	2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3
DG [1SS] - Combination-A	7.58	8.4	8.29	7.58	7.22
DG [1SS] - Combination-B	-	8.68	8.68	8.08	7.02
DG [1SS] - Combination-C	-	5.9	5.85	6.19	6.25
DG [1SS] - Combination-D	-	8.84	8.68	8.4	7.27
DG [1SS] - Combination-E	-	5.78	6.01	6.62	6
DG [2SS]	6.32	6.69	7.12	7.23	6.26
DG [4SS]	6.32	6.69	7.12	7.23	6.26

Note 1: The EUT has six antennas.

Note 2: The composite gain is derived as KDB 662911 D03 v01 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP4O2940.

Note 3: Antenna combination

A = Ant.1 + Ant.2 + Ant.3 + Ant.4

B = Ant.1 + Ant.2 + Ant.3 + Ant.5

C = Ant.1 + Ant.2 + Ant.4 + Ant.5

D = Ant.1 + Ant.3 + Ant.4 + Ant.5

E = Ant.2 + Ant.3 + Ant.4 + Ant.5

For 2.4GHz function:

For IEEE 802.11 b/g mode (1TX/1RX) < **Radio 1** >

Support diversity function, port 1 was tested that designated by the manufacturer.

For IEEE 802.11 b/g/n/VHT/ax/be mode (4TX/4RX) < **Radio 1** >

Ant. 1 (port 1)~Ant. 4 (port 4) could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a mode (1TX/1RX) < **Radio 2** >

Support diversity function, port 1 was tested that designated by the manufacturer.

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX) < **Radio 2** >

Ant. 1 (port 1)~Ant. 6 (port 6) could transmit/receive simultaneously.

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	☒ 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	0.991	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g_Nss1,(6Mbps)_4TX	0.962	0.17	1.393m	1k
802.11be EHT20_Nss1,(MCS0)_4TX	0.856	0.68	321.562u	5k
802.11be EHT40_Nss1,(MCS0)_4TX	0.858	0.67	319.687u	5k

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
802.11be EHT20-BF_Nss1,(MCS0)_4TX	0.856	0.68	321.562u	5k
802.11be EHT40-BF_Nss1,(MCS0)_4TX	0.858	0.67	319.687u	5k

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

1.1.5 Table for Multiple Listing

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

Model Name	Description
SDG-9712oYYYYYYY(Y can be 0-9, a-z, A-Z, blank, "+" or "-" or "#")	All the models are identical, the difference model served as marketing strategy.

From the above models, SDG-9712o Smart was selected as representative model for the test and its data was recorded in this report.

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 662911 D03 v01
- ♦ 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	Lego Lin	21.5~23.4°C / 53~58%	22/Nov/2024
☒ 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	Lego Lin	20.4~21.5°C / 56~64%	27/Nov/2024
☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Johnny Yu	23.4~23.6°C / 58~64%	18/Nov/2024~04/Dec/2024
Radiated	03CH24-HY	Billy Wang	23.2~24.4°C / 53~55%	13/Nov/2024~03/Dec/2024

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	MT7990 QA 0.0.2.104
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Non-Beamforming

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	19
2417MHz	18
2437MHz	21.5
2457MHz	20
2462MHz	19
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	17.5
2417MHz	18.5
2437MHz	21
2457MHz	21
2462MHz	18
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	17.5
2417MHz	18
2437MHz	22
2457MHz	18.5
2462MHz	16.5
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	16.5
2417MHz	17
2437MHz	21.5
2457MHz	19
2462MHz	17
802.11be EHT20_Nss1,(MCS0)_4TX	-
2412MHz	16.5
2417MHz	17
2437MHz	21
2457MHz	17.5
2462MHz	16
802.11be EHT40_Nss1,(MCS0)_4TX	-
2422MHz	14.5
2427MHz	16
2437MHz	17.5
2447MHz	16.5
2452MHz	15.5

**Beamforming**

Mode	Power Setting
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-
2412MHz	16.5
2417MHz	17
2437MHz	21
2457MHz	17.5
2462MHz	16
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-
2422MHz	14.5
2427MHz	16
2437MHz	17.5
2447MHz	16.5
2452MHz	15.5

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	Y Plane
	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA4O2940 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
Mounting Bracket	Brand Name	N/A	Model Name	N/A
Grounding Lug Cable	Brand Name	N/A	Model Name	N/A

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

2.4 Support Equipment

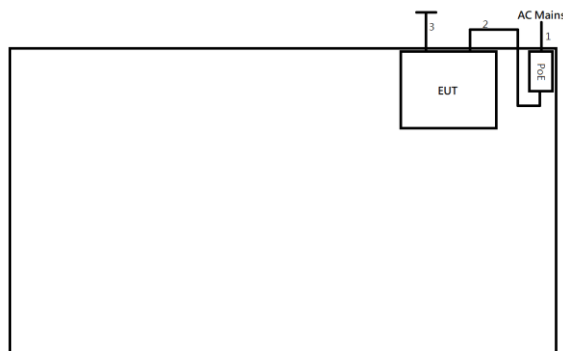
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power sync	CAT-6E-03	-	-
2	PoE	CWT	P060U04BT	-	Provided by Customer
3	Power Cord	DIANXIAN	60227 IEC-53	-	Provided by Customer

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	POE	CWT	P060U04BT	-	Provided by Customer
4	Power Cord for PoE	-	-	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power sync	CAT-6E-03	-	-
2	PoE	CWT	P060U04BT	-	Provided by Customer / Remote
3	Power Cord	DIANXIAN	60227 IEC-53	-	Provided by Customer / Remote

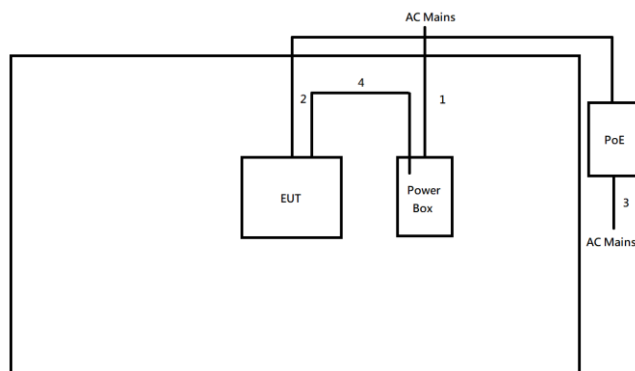
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	NO	1.5	-
2	RJ45 Cable	NO	3.0	-
3	Ground Wire	NO	1.0	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	NO	0.6	-
2	RJ45 Cable	NO	3.0	-
3	AC Power cord	NO	1.5	-
4	Ground Wire	NO	1.0	-

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

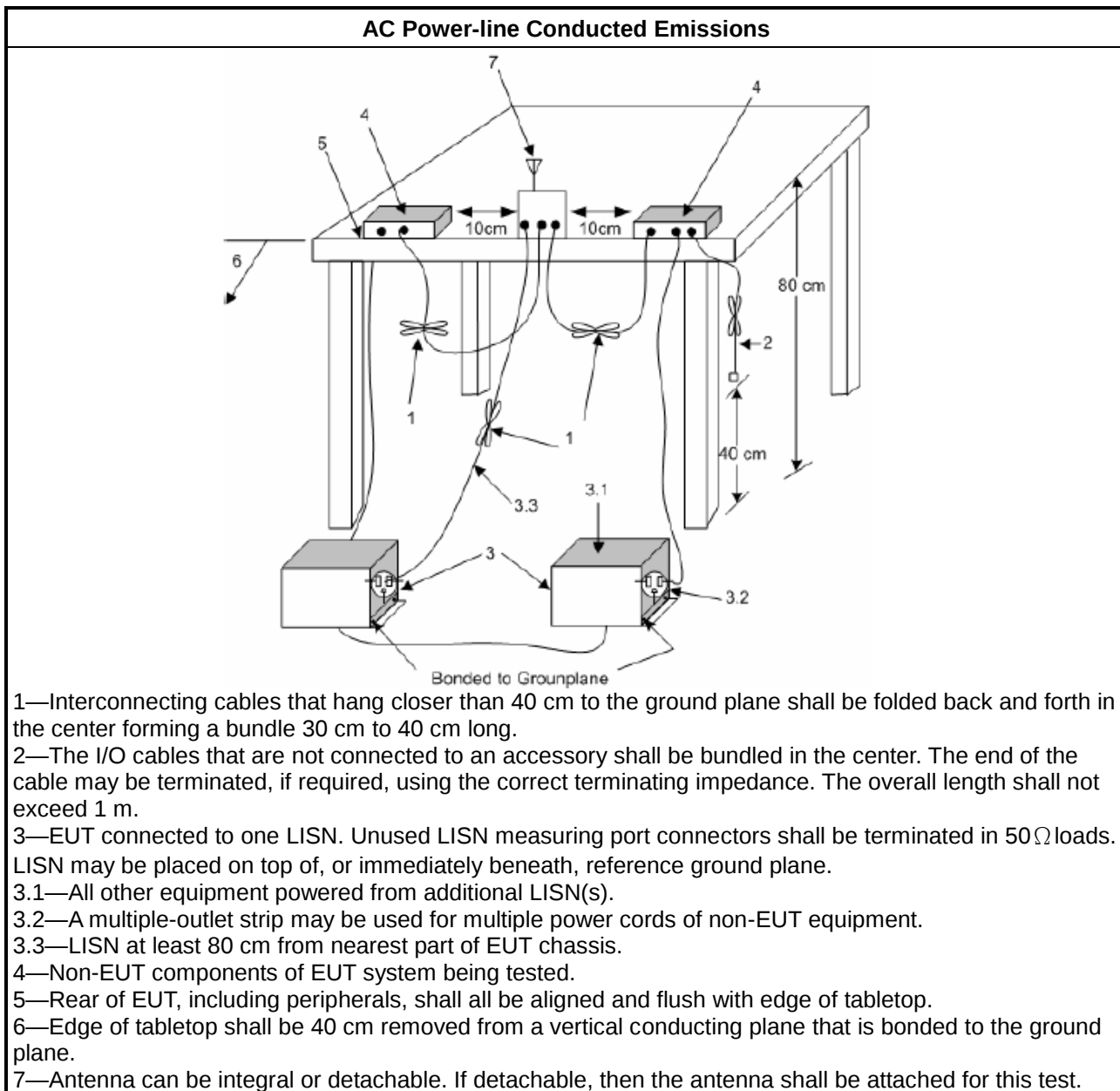
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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.

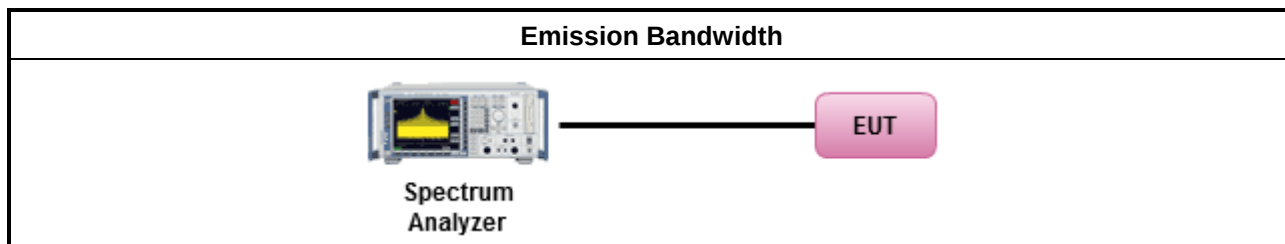
3.2.2 Measuring Instruments

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.	

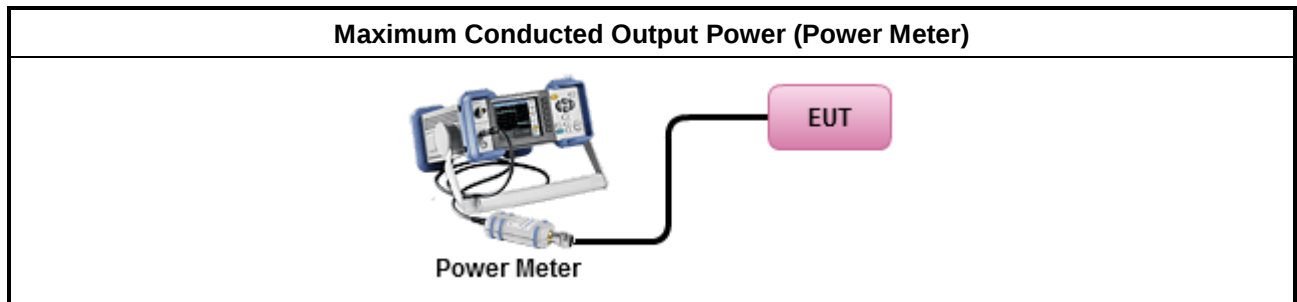
3.3.2 Measuring Instruments

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

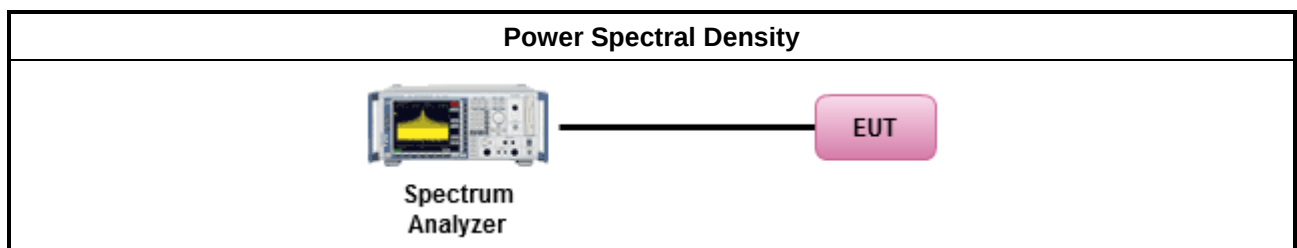
3.4.2 Measuring Instruments

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.	

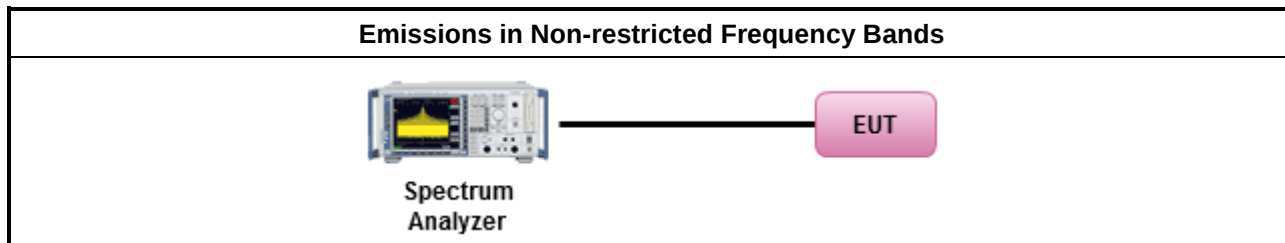
3.5.2 Measuring Instruments

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

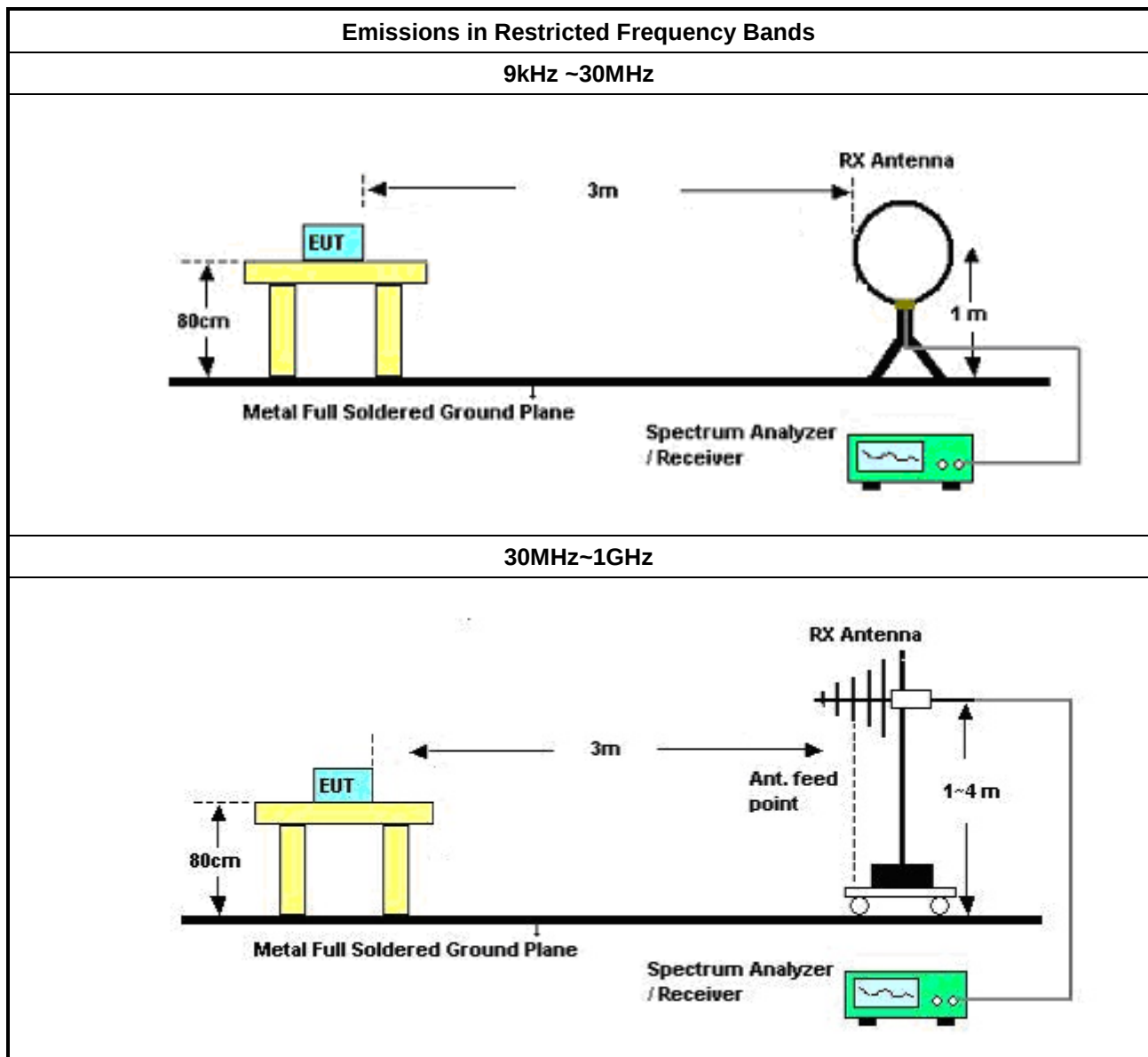
Test Method	
▪	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted 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.

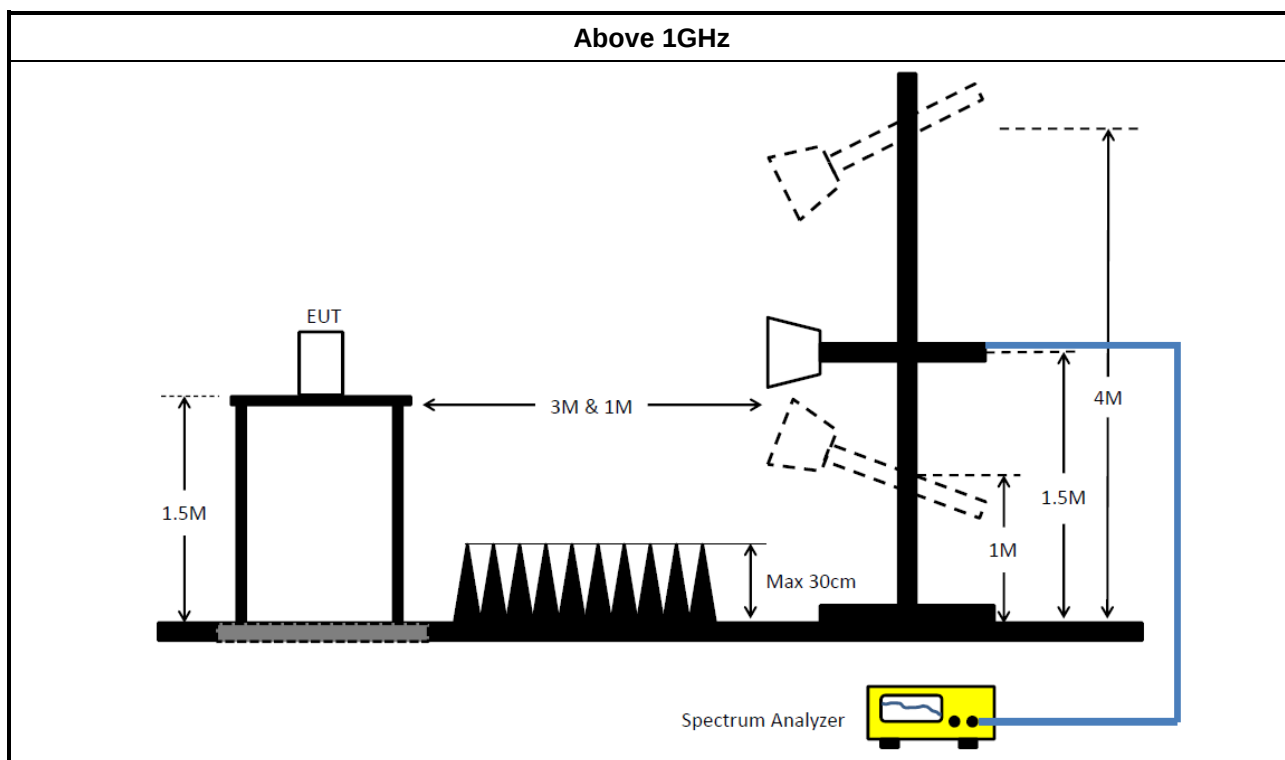
3.6.4 Measurement Results Calculation

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	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	17/May/2024	16/May/2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101274	9kHz ~ 30MHz	18/Jun/2024	17/Jun/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	27/Feb/2024	26/Feb/2025
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
SENSE-EMI	Sporton	V5.11.3	N/A	N/A	N/A	N/A

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	28/Oct/2024	27/Oct/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	01/Apr/2024	31/Mar/2025
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	02/Apr/2024	01/Apr/2025
SENSE-15247_DTS	Sporton	V5.11.20	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH24-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	30MHz~1GHz 3m	16/Aug/2024	15/Aug/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	30/Jul/2024	29/Jul/2025
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	27/Dec/2023	26/Dec/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101345	10Hz~44GHz	27/Aug/2024	26/Aug/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	TESEQ / Woken	CBL 6112D / 00800N1D01N-06	35376 / 02	30MHz~1GHz	14/Apr/2024	13/Apr/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	15/Aug/2024	14/Aug/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	05/Jun/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	03CH24-cable-01	9kHz~40GHz	01/Oct/2024	30/Sep/2025
Pre-Amplifier	Agilent	8447D	2944A06292	30MHz~1GHz	18/Apr/2024	17/Apr/2025
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	12/Aug/2024	11/Aug/2025
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	19/Apr/2024	18/Apr/2025
SENSE-15247-DTS	Sporton	V5.11.20	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	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	07/Mar/2024	06/Mar/2025
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	15/Aug/2024	14/Aug/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	20/Dec/2023	19/Dec/2024
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	19/Jul/2024	18/Jul/2025
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	07/Oct/2024	06/Oct/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
Amplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	19/Apr/2024	18/Apr/2025
SENSE-EMI	Sporton	V5.11	NA	NA	NA	NA



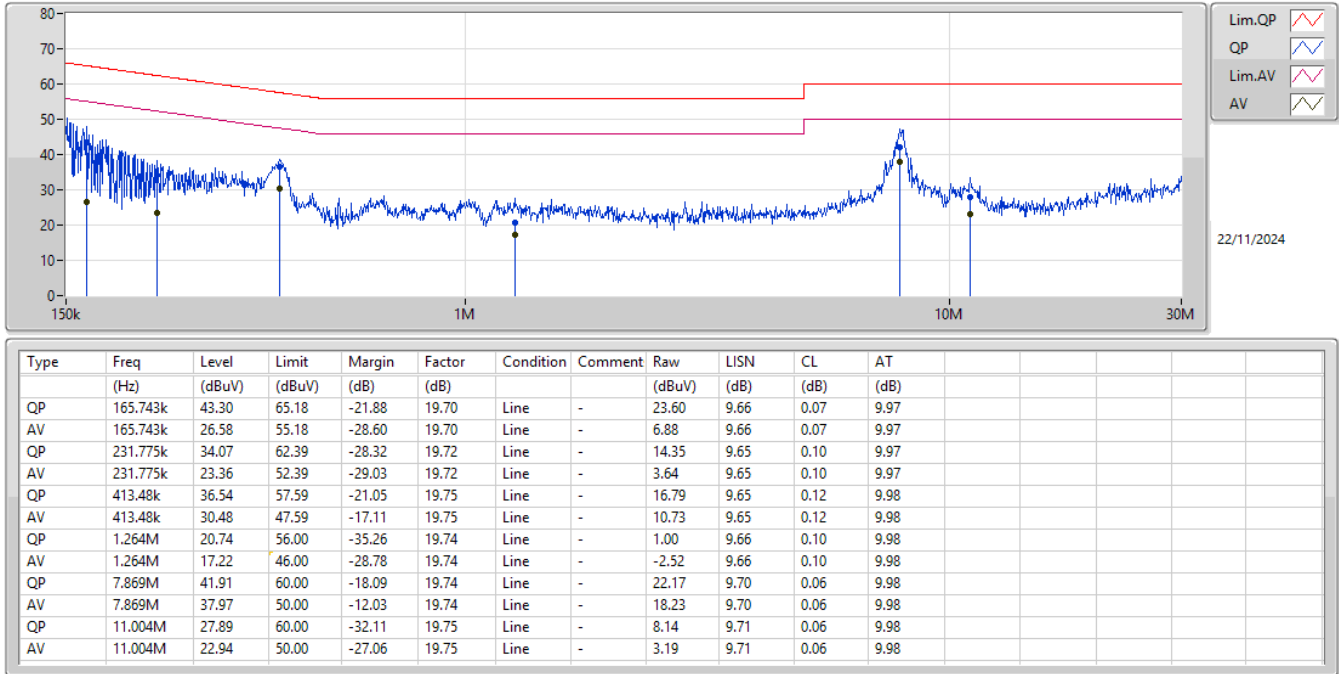
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	7.964M	38.94	50.00	-11.06	Neutral

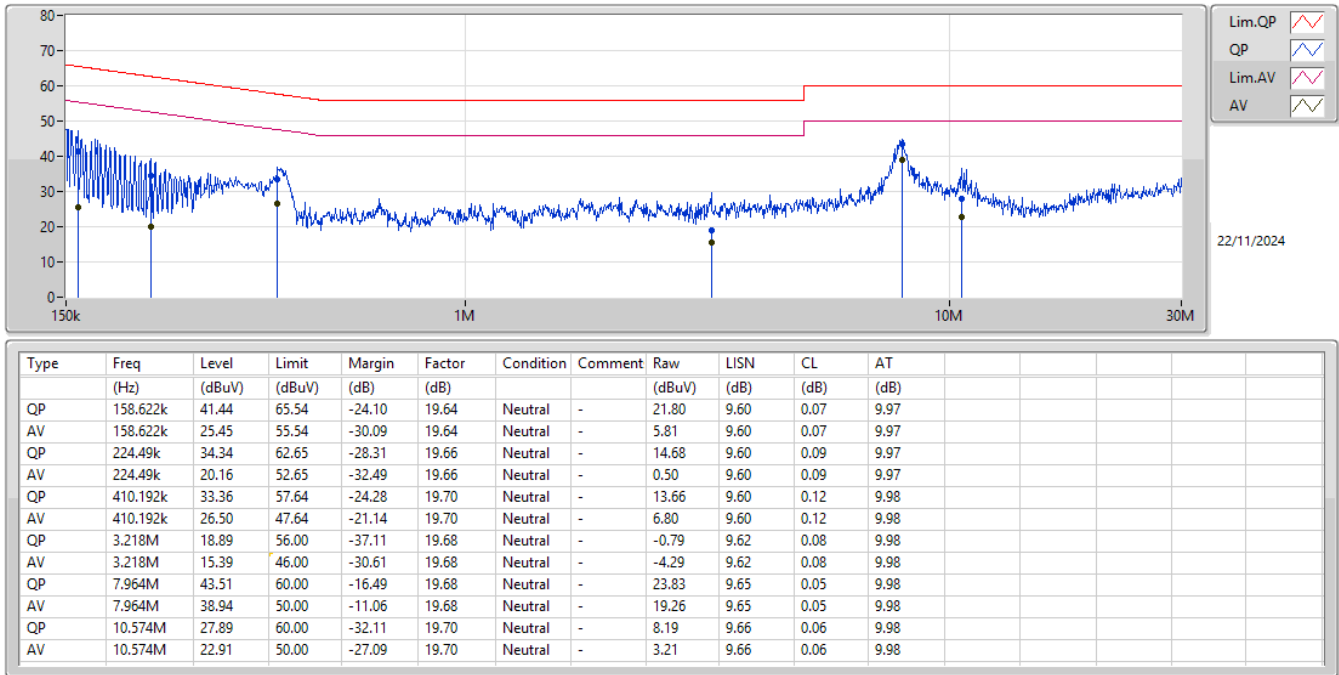
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	165.743k	43.30	65.18	-21.88	Line
Mode 1	Pass	AV	165.743k	26.58	55.18	-28.60	Line
Mode 1	Pass	QP	231.775k	34.07	62.39	-28.32	Line
Mode 1	Pass	AV	231.775k	23.36	52.39	-29.03	Line
Mode 1	Pass	QP	413.48k	36.54	57.59	-21.05	Line
Mode 1	Pass	AV	413.48k	30.48	47.59	-17.11	Line
Mode 1	Pass	QP	1.264M	20.74	56.00	-35.26	Line
Mode 1	Pass	AV	1.264M	17.22	46.00	-28.78	Line
Mode 1	Pass	QP	7.869M	41.91	60.00	-18.09	Line
Mode 1	Pass	AV	7.869M	37.97	50.00	-12.03	Line
Mode 1	Pass	QP	11.004M	27.89	60.00	-32.11	Line
Mode 1	Pass	AV	11.004M	22.94	50.00	-27.06	Line
Mode 1	Pass	QP	158.622k	41.44	65.54	-24.10	Neutral
Mode 1	Pass	AV	158.622k	25.45	55.54	-30.09	Neutral
Mode 1	Pass	QP	224.49k	34.34	62.65	-28.31	Neutral
Mode 1	Pass	AV	224.49k	20.16	52.65	-32.49	Neutral
Mode 1	Pass	QP	410.192k	33.36	57.64	-24.28	Neutral
Mode 1	Pass	AV	410.192k	26.50	47.64	-21.14	Neutral
Mode 1	Pass	QP	3.218M	18.89	56.00	-37.11	Neutral
Mode 1	Pass	AV	3.218M	15.39	46.00	-30.61	Neutral
Mode 1	Pass	QP	7.964M	43.51	60.00	-16.49	Neutral
Mode 1	Pass	AV	7.964M	38.94	50.00	-11.06	Neutral
Mode 1	Pass	QP	10.574M	27.89	60.00	-32.11	Neutral
Mode 1	Pass	AV	10.574M	22.91	50.00	-27.09	Neutral

Conducted Emissions at Powerline_Mode 1



Conducted Emissions at Powerline_Mode 1



**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)_1TX	10.025M	15.412M	15M4G1D	7.05M	12.909M
802.11b_Nss1,(1Mbps)_4TX	8.55M	14.723M	14M7G1D	6.575M	12.489M
802.11g_Nss1,(6Mbps)_1TX	16.35M	17.789M	17M8D1D	16.275M	16.294M
802.11g_Nss1,(6Mbps)_4TX	16.375M	17.877M	17M9D1D	14.175M	16.25M
802.11be EHT20_Nss1,(MCS0)_4TX	18.925M	19.015M	19M0D1D	15.225M	18.666M
802.11be EHT40_Nss1,(MCS0)_4TX	36.85M	37.631M	37M6D1D	22M	37.131M

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)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	7.05M	12.954M						
2437MHz	Pass	500k	10.025M	15.412M						
2462MHz	Pass	500k	7.075M	12.909M						
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	6.575M	12.684M	7.2M	12.609M	6.65M	12.624M	7.525M	12.594M
2437MHz	Pass	500k	8.55M	14.723M	8.075M	13.478M	7.575M	13.958M	7.55M	13.133M
2462MHz	Pass	500k	8.075M	12.699M	8.05M	12.489M	7.575M	12.729M	8.025M	12.684M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.275M	16.47M						
2437MHz	Pass	500k	16.275M	17.789M						
2462MHz	Pass	500k	16.35M	16.294M						
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.35M	16.382M	16.375M	16.316M	15.125M	16.294M	16.35M	16.338M
2437MHz	Pass	500k	16.325M	17.877M	16.35M	16.536M	16.35M	16.778M	15.15M	16.602M
2462MHz	Pass	500k	14.775M	16.338M	15.35M	16.316M	16.325M	16.426M	14.175M	16.25M
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	17.05M	18.766M	16.325M	18.791M	15.225M	18.866M	16.9M	18.666M
2437MHz	Pass	500k	18.725M	19.015M	17.275M	18.866M	18.925M	18.891M	18.625M	18.841M
2462MHz	Pass	500k	16.525M	18.866M	16.925M	18.791M	18.85M	18.766M	16.9M	18.866M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	36.1M	37.431M	32.6M	37.581M	31.35M	37.481M	33.85M	37.431M
2437MHz	Pass	500k	36.85M	37.581M	25.35M	37.581M	36.3M	37.581M	36.55M	37.631M
2452MHz	Pass	500k	26.3M	37.231M	33.85M	37.481M	25.3M	37.181M	22M	37.131M

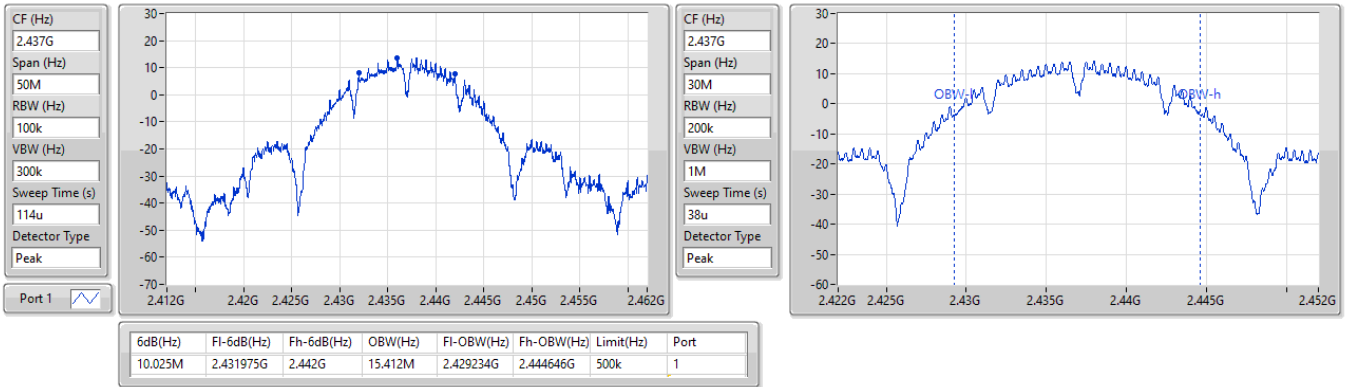
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2437MHz

04/12/2024

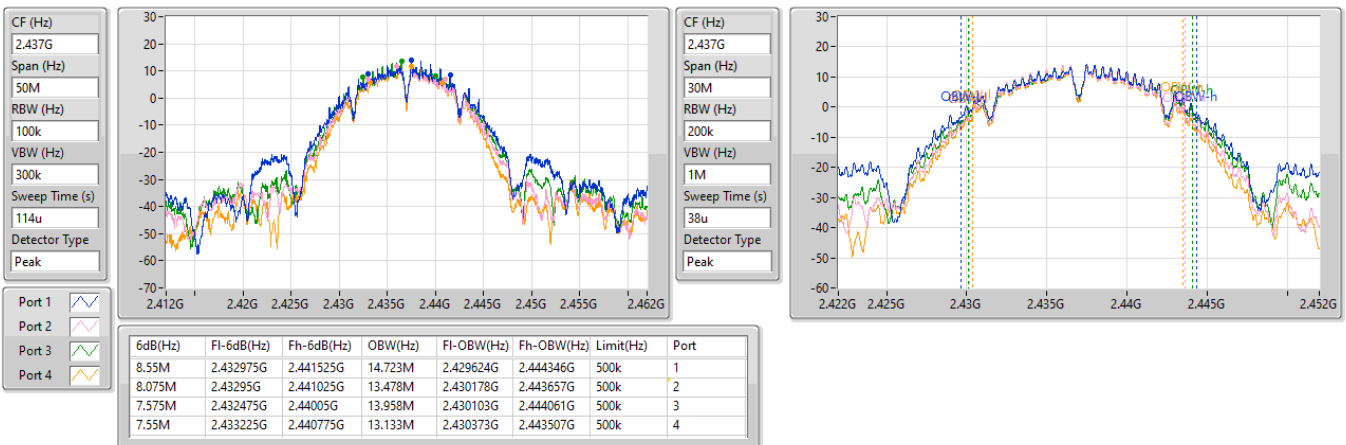


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

EBW

2437MHz

18/11/2024

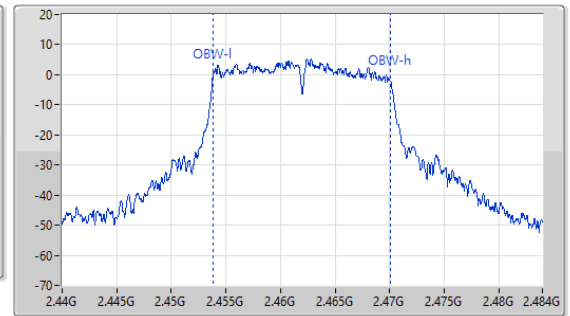
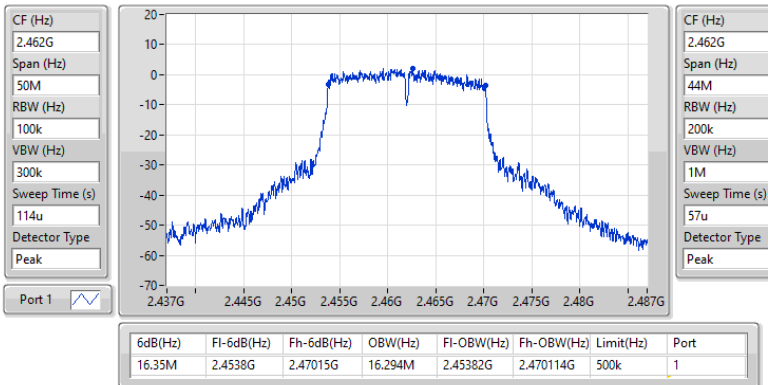


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

2462MHz

04/12/2024

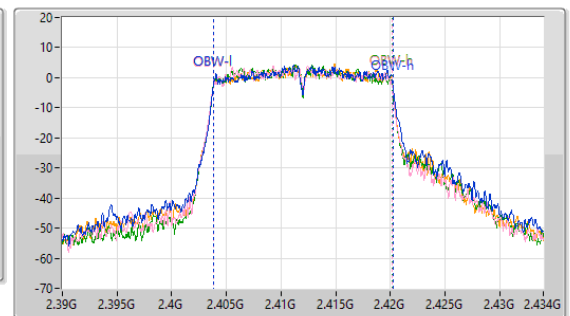
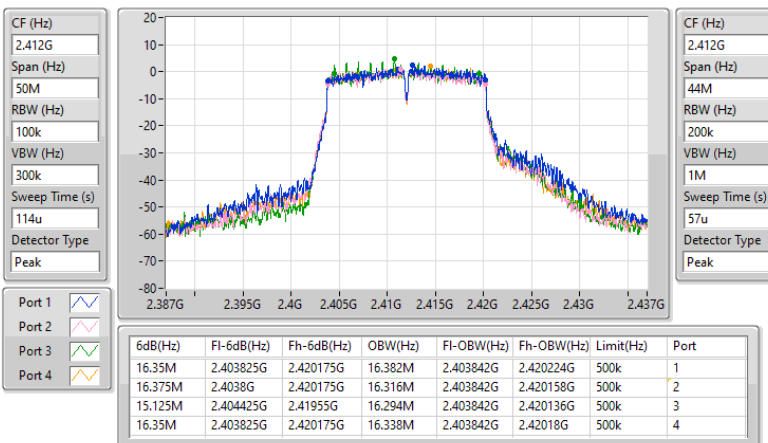


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

EBW

2412MHz

18/11/2024

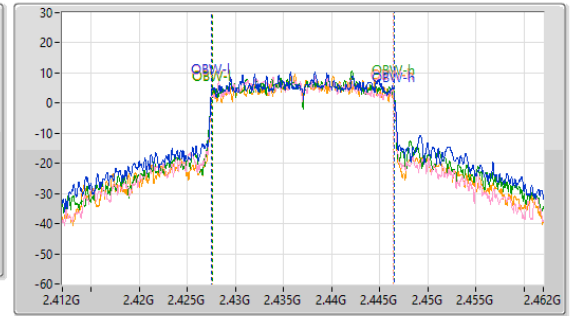
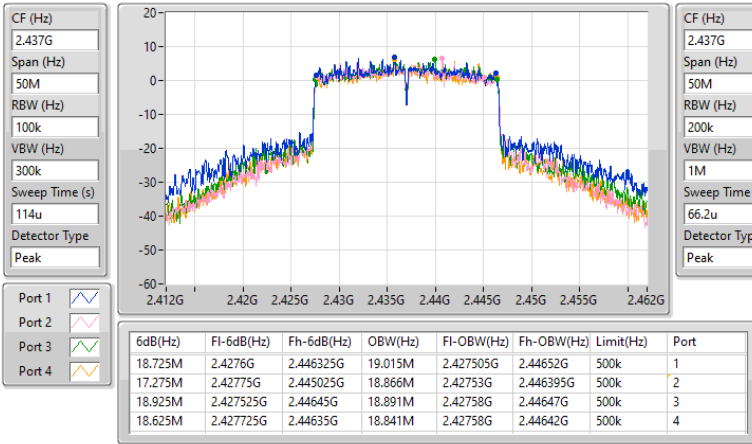


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

2437MHz

18/11/2024

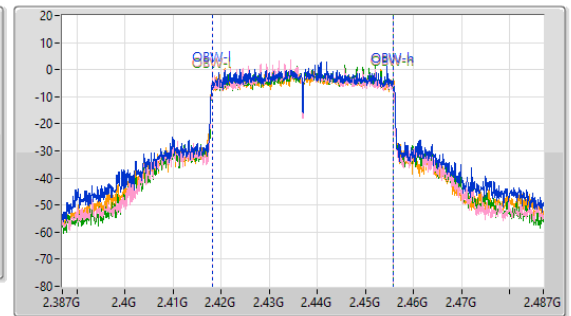
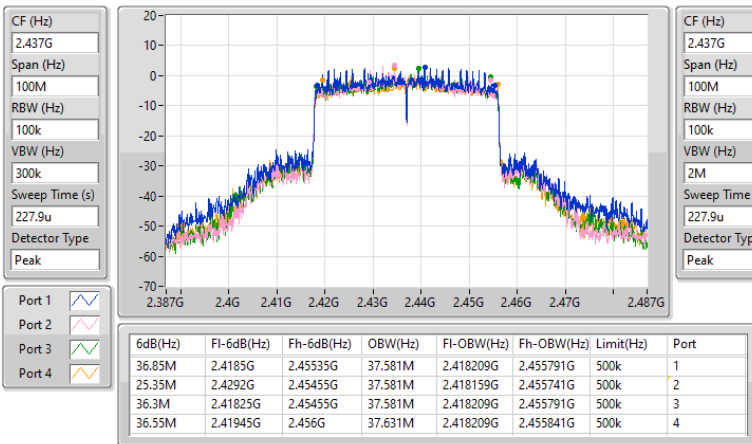


2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

2437MHz

18/11/2024





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	22.90	0.19498
802.11b_Nss1,(1Mbps)_4TX	27.70	0.58884
802.11g_Nss1,(6Mbps)_1TX	21.31	0.13521
802.11g_Nss1,(6Mbps)_4TX	26.32	0.42855
802.11be EHT20_Nss1,(MCS0)_4TX	25.71	0.37239
802.11be EHT40_Nss1,(MCS0)_4TX	22.57	0.18072

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)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.32	20.16				20.16	29.68
2417MHz	Pass	6.32	19.09				19.09	29.68
2437MHz	Pass	6.32	22.90				22.90	29.68
2457MHz	Pass	6.32	21.23				21.23	29.68
2462MHz	Pass	6.32	20.16				20.16	29.68
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.32	18.33	17.86	17.90	18.04	24.06	29.68
2417MHz	Pass	6.32	19.21	19.23	18.89	19.01	25.11	29.68
2437MHz	Pass	6.32	22.05	21.57	21.89	21.15	27.70	29.68
2457MHz	Pass	6.32	21.69	21.78	21.26	21.00	27.46	29.68
2462MHz	Pass	6.32	18.61	18.57	18.48	18.28	24.51	29.68
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.32	16.74				16.74	29.68
2417MHz	Pass	6.32	17.42				17.42	29.68
2437MHz	Pass	6.32	21.31				21.31	29.68
2457MHz	Pass	6.32	18.12				18.12	29.68
2462MHz	Pass	6.32	16.23				16.23	29.68
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.32	15.69	15.16	15.28	15.38	21.40	29.68
2417MHz	Pass	6.32	16.17	15.81	15.73	15.95	21.94	29.68
2437MHz	Pass	6.32	20.70	20.14	20.43	19.87	26.32	29.68
2457MHz	Pass	6.32	18.29	17.87	17.53	17.69	23.87	29.68
2462MHz	Pass	6.32	16.37	15.99	16.06	16.08	22.15	29.68
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.32	15.52	15.14	15.31	15.27	21.33	29.68
2417MHz	Pass	6.32	16.00	15.85	15.76	15.74	21.86	29.68
2437MHz	Pass	6.32	20.28	19.54	19.86	18.98	25.71	29.68
2457MHz	Pass	6.32	16.86	16.14	16.11	15.75	22.25	29.68
2462MHz	Pass	6.32	15.46	14.86	15.20	14.98	21.15	29.68
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	6.32	13.60	13.27	13.36	13.21	19.38	29.68
2427MHz	Pass	6.32	14.89	14.71	14.75	14.53	20.74	29.68
2437MHz	Pass	6.32	17.14	16.48	16.39	16.13	22.57	29.68
2447MHz	Pass	6.32	15.98	15.20	15.34	15.02	21.42	29.68
2452MHz	Pass	6.32	14.90	14.18	14.28	14.03	20.38	29.68

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX	25.71	0.37239
802.11be EHT40-BF_Nss1,(MCS0)_4TX	22.57	0.18072



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.58	15.52	15.14	15.31	15.27	21.33	28.42
2417MHz	Pass	7.58	16.00	15.85	15.76	15.74	21.86	28.42
2437MHz	Pass	7.58	20.28	19.54	19.86	18.98	25.71	28.42
2457MHz	Pass	7.58	16.86	16.14	16.11	15.75	22.25	28.42
2462MHz	Pass	7.58	15.46	14.86	15.20	14.98	21.15	28.42
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	7.58	13.60	13.27	13.36	13.21	19.38	28.42
2427MHz	Pass	7.58	14.89	14.71	14.75	14.53	20.74	28.42
2437MHz	Pass	7.58	17.14	16.48	16.39	16.13	22.57	28.42
2447MHz	Pass	7.58	15.98	15.20	15.34	15.02	21.42	28.42
2452MHz	Pass	7.58	14.90	14.18	14.28	14.03	20.38	28.42

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-1.30
802.11b_Nss1,(1Mbps)_4TX	2.49
802.11g_Nss1,(6Mbps)_1TX	-5.11
802.11g_Nss1,(6Mbps)_4TX	-1.33
802.11be EHT20_Nss1,(MCS0)_4TX	-2.75
802.11be EHT40_Nss1,(MCS0)_4TX	-8.11

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)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.32	-3.40				-3.40	7.68
2437MHz	Pass	6.32	-1.30				-1.30	7.68
2462MHz	Pass	6.32	-4.41				-4.41	7.68
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.58	-4.22	-6.61	-5.70	-6.31	-1.10	6.42
2437MHz	Pass	7.58	-1.22	-0.85	-1.81	-1.94	2.49	6.42
2462MHz	Pass	7.58	-4.60	-5.49	-5.19	-5.50	-0.57	6.42
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.32	-7.75				-7.75	7.68
2437MHz	Pass	6.32	-5.11				-5.11	7.68
2462MHz	Pass	6.32	-8.41				-8.41	7.68
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.58	-10.19	-10.87	-10.60	-10.30	-6.33	6.42
2437MHz	Pass	7.58	-4.74	-4.43	-4.88	-5.04	-1.33	6.42
2462MHz	Pass	7.58	-8.53	-9.37	-8.98	-9.29	-5.81	6.42
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.58	-11.09	-12.02	-11.84	-11.03	-7.60	6.42
2437MHz	Pass	7.58	-6.57	-6.76	-6.60	-7.90	-2.75	6.42
2462MHz	Pass	7.58	-11.13	-10.73	-10.63	-11.02	-6.93	6.42
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	7.58	-13.20	-13.41	-15.44	-14.34	-9.65	6.42
2437MHz	Pass	7.58	-12.44	-11.49	-13.51	-12.67	-8.11	6.42
2452MHz	Pass	7.58	-13.55	-14.98	-14.77	-14.91	-9.60	6.42

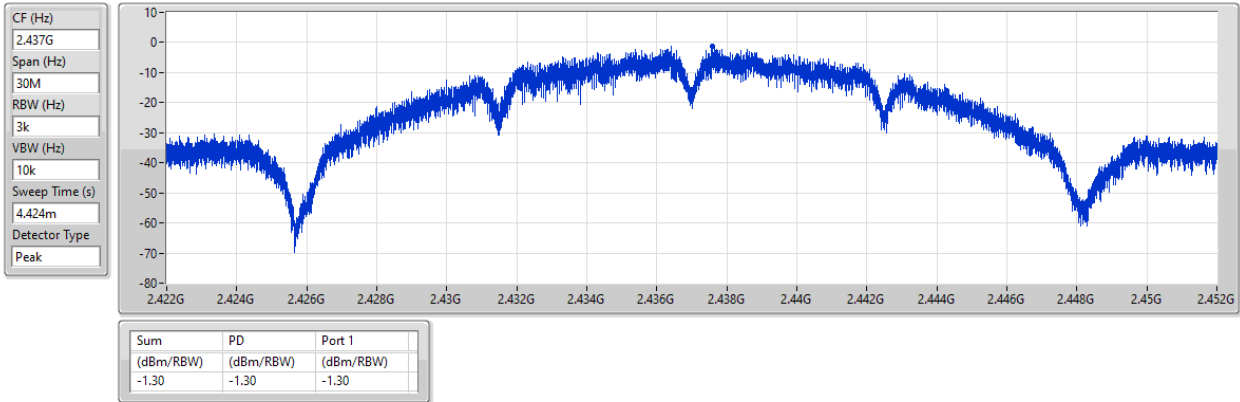
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

04/12/2024

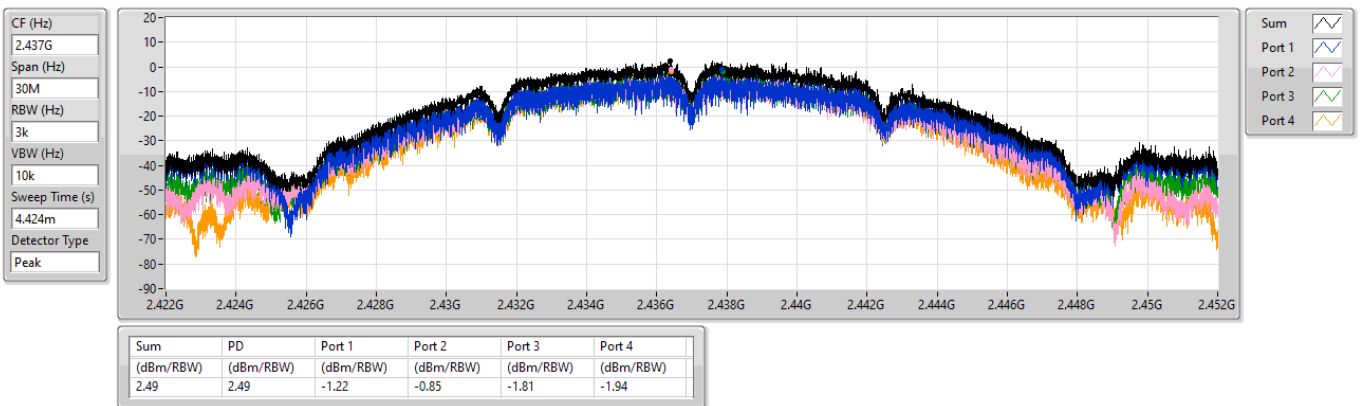


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

PSD

2437MHz

18/11/2024

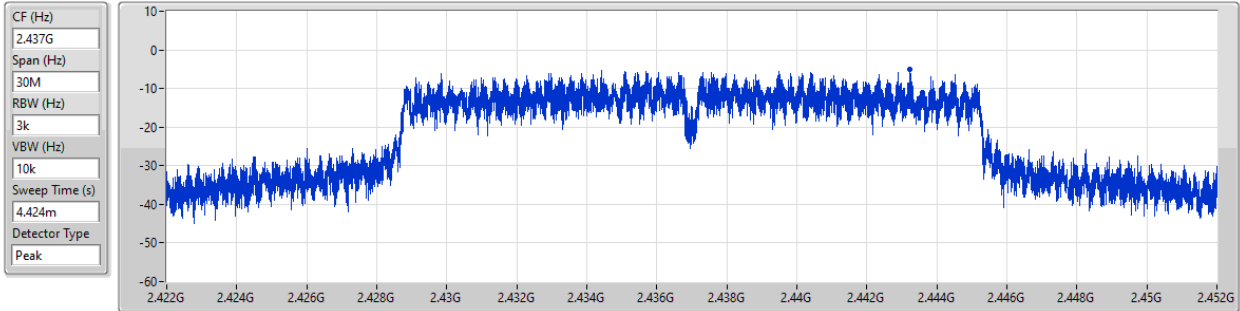


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

04/12/2024



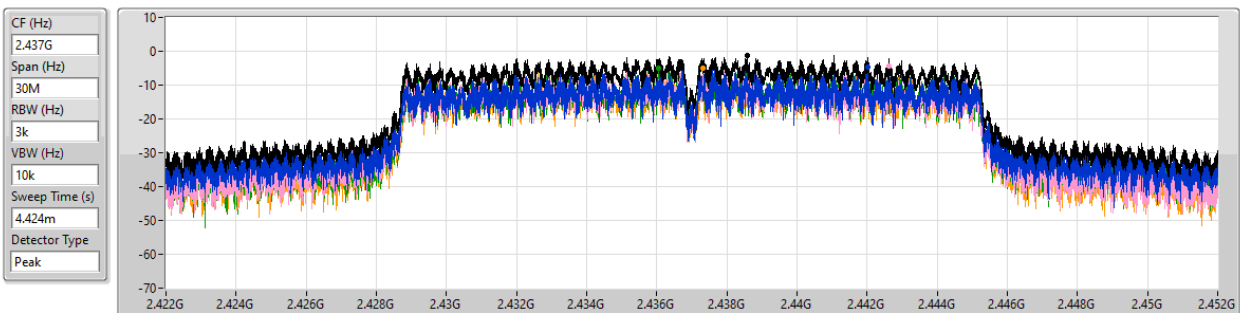
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.11	-5.11	-5.11

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

PSD

2437MHz

18/11/2024



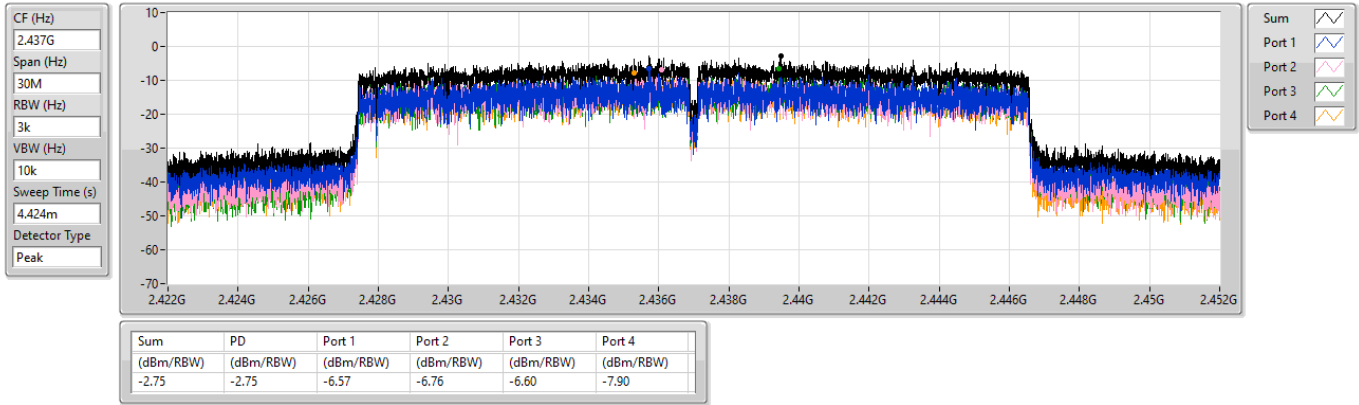
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.33	-1.33	-4.74	-4.43	-4.88	-5.04

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

2437MHz

18/11/2024

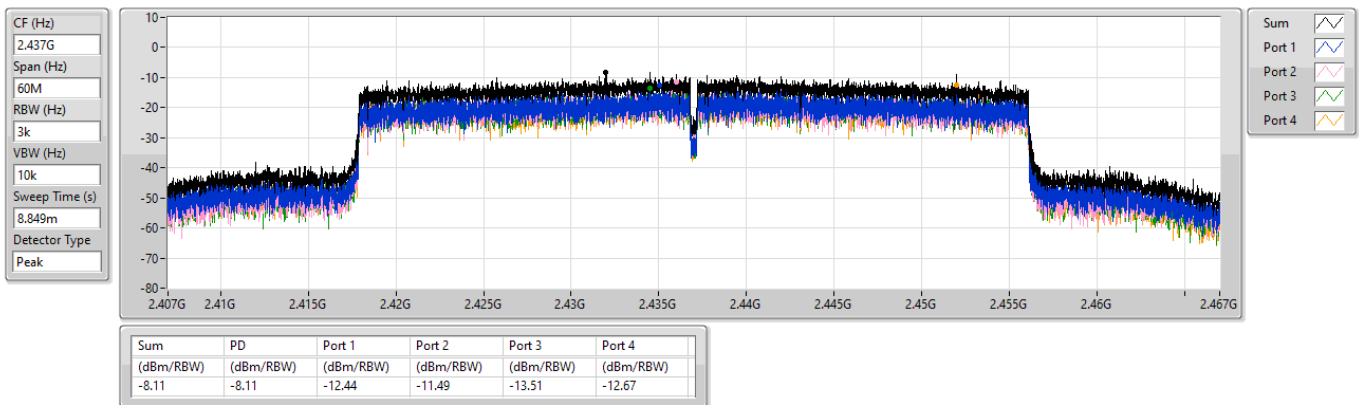


2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

PSD

2437MHz

18/11/2024



**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)_1TX	Pass	2.43591G	13.59	-16.41	2.14914G	-55.90	2.39952G	-37.44	2.4G	-40.74	2.50942G	-53.80	16.22855G	-41.69	1
802.11b_Nss1,(1Mbps)_4TX	Pass	2.43791G	13.60	-16.40	2.04778G	-53.61	2.39904G	-39.41	2.4G	-41.60	2.50862G	-51.67	16.20607G	-41.27	4
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43574G	11.09	-18.91	2.30874G	-55.62	2.39992G	-32.09	2.4G	-35.90	2.5143G	-54.16	16.26507G	-41.56	1
802.11g_Nss1,(6Mbps)_4TX	Pass	2.43574G	10.56	-19.44	2.12817G	-54.41	2.39792G	-39.12	2.4G	-38.38	2.5095G	-52.77	23.27493G	-41.31	1
802.11be EHT20_Nss1,(MCS0)_4TX	Pass	2.43574G	9.56	-20.44	1.97555G	-54.41	2.39968G	-40.43	2.4G	-39.81	2.51246G	-53.30	23.25526G	-40.66	1
802.11be EHT40_Nss1,(MCS0)_4TX	Pass	2.43457G	3.51	-26.49	870.43M	-54.71	2.39872G	-37.12	2.4G	-38.00	2.51374G	-51.38	16.78263G	-41.52	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)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43591G	13.59	-16.41	2.14914G	-55.90	2.39952G	-37.44	2.4G	-40.74	2.50942G	-53.80	16.22855G	-41.69	1
2437MHz	Pass	2.43591G	13.59	-16.41	1.84857G	-55.87	2.4G	-42.15	2.4G	-43.61	2.5083G	-53.51	24.58138G	-41.53	1
2462MHz	Pass	2.43591G	13.59	-16.41	2.30292G	-55.51	2.39048G	-53.71	2.4G	-56.04	2.5115G	-53.84	23.32831G	-42.04	1
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43791G	13.60	-16.40	2.30292G	-54.99	2.4G	-40.76	2.4G	-41.57	2.51646G	-53.11	23.29179G	-40.68	1
2412MHz	Pass	2.43791G	13.60	-16.40	874.63M	-55.29	2.39848G	-40.15	2.4G	-43.70	2.51582G	-53.27	21.55267G	-41.70	2
2412MHz	Pass	2.43791G	13.60	-16.40	2.04196G	-55.61	2.4G	-40.75	2.4G	-41.75	2.51822G	-53.01	23.27493G	-41.56	3
2412MHz	Pass	2.43791G	13.60	-16.40	2.04778G	-53.61	2.39904G	-39.41	2.4G	-41.60	2.50862G	-51.67	16.20607G	-41.27	4
2437MHz	Pass	2.43791G	13.60	-16.40	1.97672G	-55.34	2.39808G	-44.80	2.4G	-47.79	2.50286G	-52.34	16.25383G	-41.71	1
2437MHz	Pass	2.43791G	13.60	-16.40	956.18M	-54.81	2.39952G	-46.86	2.4G	-48.20	2.50878G	-53.18	17.62771G	-41.04	2
2437MHz	Pass	2.43791G	13.60	-16.40	1.93944G	-55.13	2.39952G	-44.70	2.4G	-46.02	2.50758G	-53.38	16.27631G	-41.18	3
2437MHz	Pass	2.43791G	13.60	-16.40	2.14914G	-55.51	2.39952G	-49.10	2.4G	-48.80	2.50886G	-52.94	23.2665G	-42.02	4
2462MHz	Pass	2.43791G	13.60	-16.40	1.94293G	-55.44	2.3932G	-53.70	2.4G	-55.46	2.51462G	-52.59	24.68814G	-41.80	1
2462MHz	Pass	2.43791G	13.60	-16.40	1.81129G	-55.10	2.39208G	-53.14	2.4G	-55.69	2.51566G	-52.20	16.5376G	-41.39	2
2462MHz	Pass	2.43791G	13.60	-16.40	2.09438G	-53.52	2.39696G	-52.70	2.4G	-55.18	2.5087G	-53.46	16.95341G	-41.87	3
2462MHz	Pass	2.43791G	13.60	-16.40	823.37M	-54.80	2.39584G	-53.42	2.4G	-54.91	2.51646G	-53.09	16.85789G	-41.82	4
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	11.09	-18.91	2.30874G	-55.62	2.39992G	-32.09	2.4G	-35.90	2.5143G	-54.16	16.26507G	-41.56	1
2437MHz	Pass	2.43574G	11.09	-18.91	2.30991G	-55.31	2.39672G	-38.41	2.4G	-38.48	2.52238G	-53.97	17.20627G	-41.27	1
2462MHz	Pass	2.43574G	11.09	-18.91	2.12234G	-55.05	2.3992G	-53.93	2.4G	-54.82	2.51526G	-53.57	17.59961G	-42.50	1
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	10.56	-19.44	2.12817G	-54.41	2.39792G	-39.12	2.4G	-38.38	2.5095G	-52.77	23.27493G	-41.31	1
2412MHz	Pass	2.43574G	10.56	-19.44	2.14448G	-54.40	2.39992G	-43.56	2.4G	-43.37	2.51078G	-52.60	24.98595G	-41.37	2
2412MHz	Pass	2.43574G	10.56	-19.44	1.9872G	-54.04	2.3992G	-45.00	2.4G	-47.28	2.5059G	-52.88	16.26507G	-41.49	3
2412MHz	Pass	2.43574G	10.56	-19.44	934.04M	-55.50	2.3992G	-41.30	2.4G	-40.96	2.50806G	-52.95	17.27651G	-41.88	4
2437MHz	Pass	2.43574G	10.56	-19.44	1.90332G	-55.00	2.39792G	-38.65	2.4G	-38.78	2.5235G	-53.25	16.23136G	-40.45	1
2437MHz	Pass	2.43574G	10.56	-19.44	1.98254G	-54.52	2.398G	-40.72	2.4G	-42.01	2.50854G	-53.27	15.20587G	-41.04	2
2437MHz	Pass	2.43574G	10.56	-19.44	925.89M	-54.74	2.3992G	-40.54	2.4G	-40.78	2.50014G	-53.23	16.24821G	-41.37	3
2437MHz	Pass	2.43574G	10.56	-19.44	2.13865G	-55.30	2.39832G	-43.78	2.4G	-46.13	2.51798G	-52.39	16.25102G	-41.50	4
2462MHz	Pass	2.43574G	10.56	-19.44	2.18292G	-55.09	2.39688G	-52.41	2.4G	-54.32	2.50638G	-53.29	24.57857G	-41.92	1
2462MHz	Pass	2.43574G	10.56	-19.44	2.01749G	-55.47	2.39976G	-51.96	2.4G	-55.14	2.50774G	-52.09	17.61366G	-41.19	2
2462MHz	Pass	2.43574G	10.56	-19.44	2.02914G	-55.46	2.39032G	-52.47	2.4G	-54.62	2.51222G	-53.58	17.60242G	-41.25	3
2462MHz	Pass	2.43574G	10.56	-19.44	2.17593G	-53.89	2.39792G	-52.62	2.4G	-53.72	2.50462G	-52.99	16.22574G	-41.37	4
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	9.55	-20.45	874.63M	-54.44	2.3976G	-42.21	2.4G	-42.82	2.5127G	-53.55	17.62209G	-41.24	1
2412MHz	Pass	2.43824G	9.55	-20.45	1.96507G	-55.23	2.39808G	-43.96	2.4G	-45.01	2.52158G	-53.06	16.28193G	-41.33	2
2412MHz	Pass	2.43824G	9.55	-20.45	767.45M	-53.77	2.3972G	-40.65	2.4G	-47.83	2.5035G	-52.49	16.29878G	-41.31	3
2412MHz	Pass	2.43824G	9.55	-20.45	1.97206G	-55.22	2.39808G	-43.77	2.4G	-45.06	2.50046G	-53.22	16.31845G	-41.47	4
2437MHz	Pass	2.43574G	9.56	-20.44	1.97555G	-54.41	2.39968G	-40.43	2.4G	-39.81	2.51246G	-53.30	23.25526G	-40.66	1
2437MHz	Pass	2.43574G	9.56	-20.44	879.29M	-55.44	2.39776G	-46.96	2.4G	-46.82	2.51598G	-53.15	17.60242G	-40.10	2
2437MHz	Pass	2.43574G	9.56	-20.44	2.18059G	-53.71	2.3976G	-48.47	2.4G	-48.25	2.51646G	-52.44	16.29598G	-40.73	3
2437MHz	Pass	2.43574G	9.56	-20.44	2.16195G	-55.17	2.39936G	-47.29	2.4G	-49.32	2.51758G	-53.64	16.99837G	-41.88	4
2462MHz	Pass	2.43824G	9.55	-20.45	2.11885G	-54.64	2.398G	-52.63	2.4G	-55.24	2.5119G	-52.93	23.30302G	-40.25	1
2462MHz	Pass	2.43824G	9.55	-20.45	2.13632G	-54.80	2.39144G	-53.61	2.4G	-54.62	2.50086G	-53.44	16.23417G	-41.06	2
2462MHz	Pass	2.43824G	9.55	-20.45	1.98371G	-53.53	2.39888G	-52.96	2.4G	-54.37	2.50734G	-52.28	16.20607G	-41.09	3
2462MHz	Pass	2.43824G	9.55	-20.45	2.03846G	-55.59	2.39664G	-52.62	2.4G	-54.15	2.51342G	-53.24	16.80732G	-41.48	4
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43457G	3.51	-26.49	923.1M	-54.95	2.39536G	-50.28	2.4G	-52.41	2.52062G	-53.45	16.25537G	-41.08	1
2422MHz	Pass	2.43457G	3.51	-26.49	2.15169G	-54.86	2.39984G	-50.66	2.4G	-51.71	2.50126G	-53.61	23.26117G	-41.23	2
2422MHz	Pass	2.43457G	3.51	-26.49	596.78M	-55.18	2.39712G	-50.63	2.4G	-51.66	2.51566G	-52.97	17.61839G	-41.13	3
2422MHz	Pass	2.43457G	3.51	-26.49	1.98681G	-54.97	2.39776G	-43.05	2.4G	-47.27	2.51758G	-53.34	16.29183G	-41.88	4
2437MHz	Pass	2.43457G	3.51	-26.49	870.43M	-54.71	2.39872G	-37.12	2.4G	-38.00	2.51374G	-51.38	16.78263G	-41.52	1
2437MHz	Pass	2.43457G	3.51	-26.49	2.30054G	-54.19	2.39904G	-45.44	2.4G	-47.00	2.5043G	-52.81	23.29202G	-41.51	2
2437MHz	Pass	2.43457G	3.51	-26.49	2.10131G	-55.67	2.39872G	-44.17	2.4G	-44.36	2.54942G	-53.06	16.23855G	-41.87	3
2437MHz	Pass	2.43457G	3.51	-26.49	1.95475G	-55.27	2.39872G	-40.25	2.4G	-40.33	2.54254G	-53.46	16.26379G	-41.69	4
2452MHz	Pass	2.43457G	3.51	-26.49	2.30855G	-54.89	2.4G	-52.60	2.4G	-54.60	2.54558G	-53.30	15.2233G	-41.63	1
2452MHz	Pass	2.43457G	3.51	-26.49	1.87918G	-55.23	2.39664G	-52.77	2.4G	-52.75	2.52158G	-53.24	15.23451G	-41.42	2
2452MHz	Pass	2.43457G	3.51	-26.49	784.56M	-55.09	2.39616G	-52.76	2.4G	-54.82	2.51806G	-53.56	16.30025G	-40.34	3
2452MHz	Pass	2.43457G	3.51	-26.49	1.83681G	-53.58	2.39936G	-51.94	2.4G	-53.84	2.50926G	-53.18	16.26098G	-41.39	4

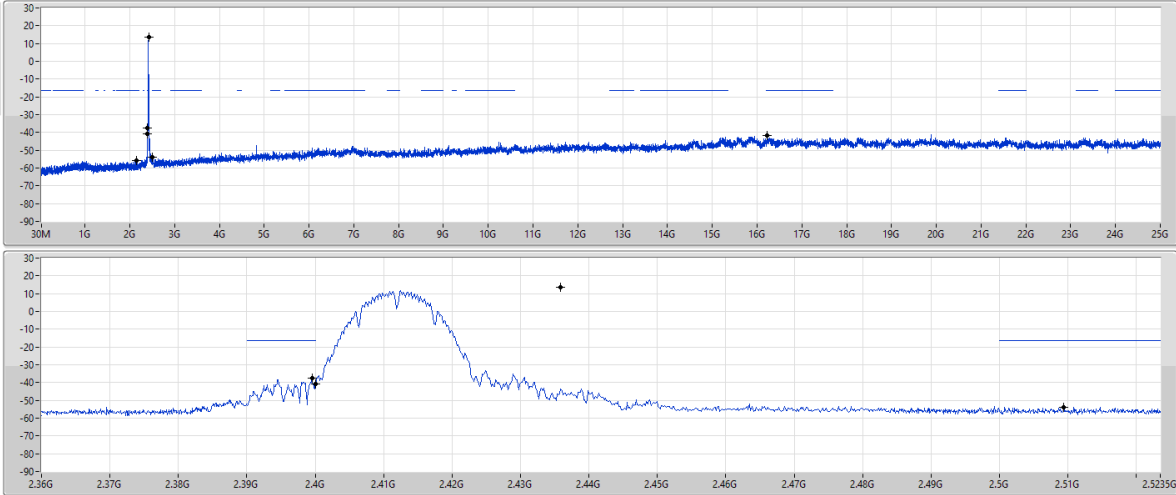
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2412MHz

04/12/2024

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43591G	13.59	-16.41	2.14914G	-55.90	2.39952G	-37.44	2.4G	-40.74	2.50942G	-53.80	16.22855G	-41.69	1

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

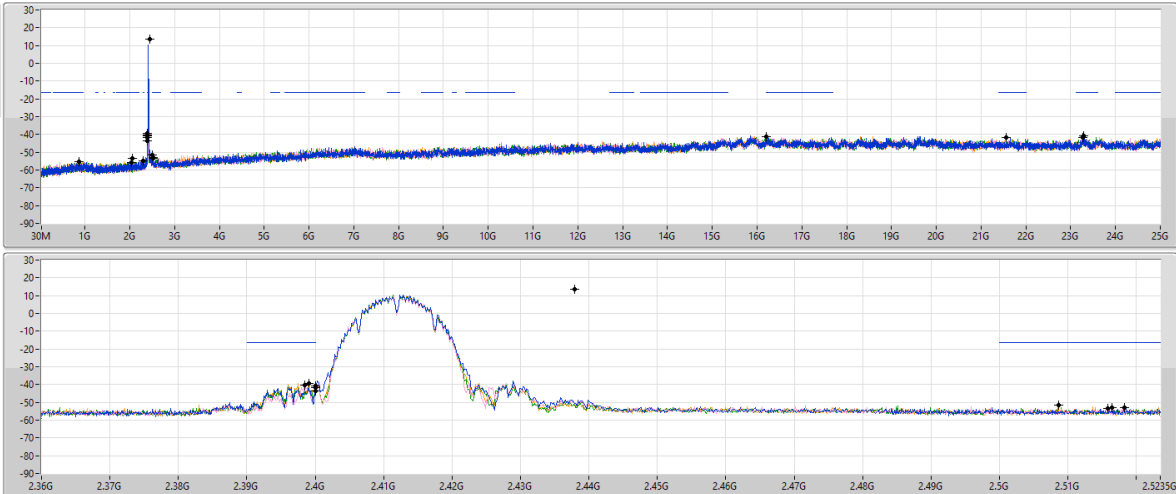
CSEndB

2412MHz

18/11/2024

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

Port 1
Port 2
Port 3
Port 4



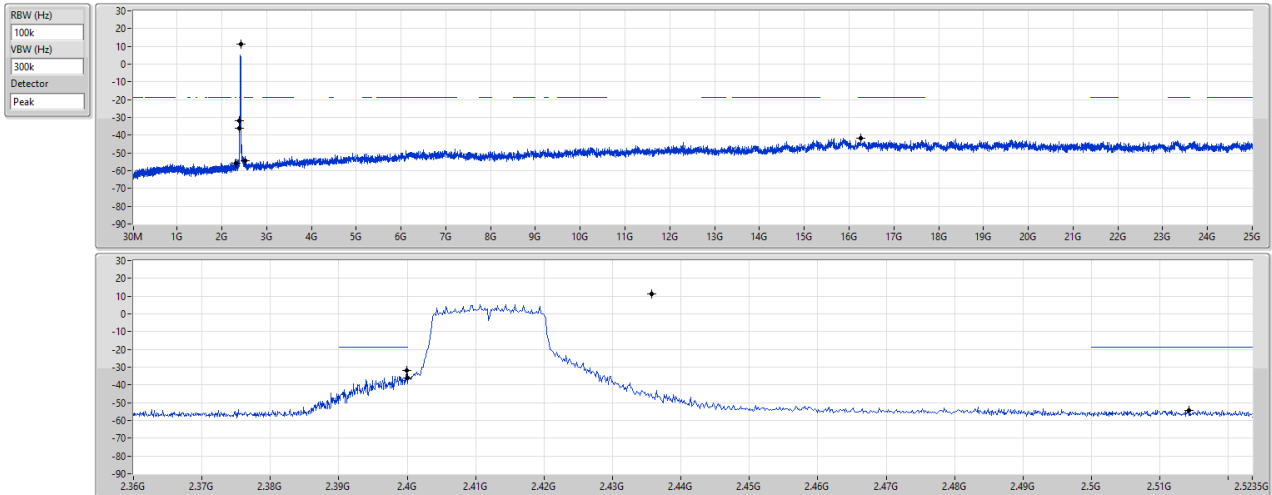
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43791G	13.60	-16.40	2.30292G	-54.99	2.4G	-40.76	2.4G	-41.57	2.51646G	-53.11	23.29179G	-40.68	1
2.43791G	13.60	-16.40	874.63M	-55.29	2.39848G	-40.15	2.4G	-43.70	2.51582G	-53.27	21.55267G	-41.70	2
2.43791G	13.60	-16.40	2.04196G	-55.61	2.4G	-40.75	2.4G	-41.75	2.51822G	-53.01	23.27493G	-41.56	3
2.43791G	13.60	-16.40	2.04778G	-53.61	2.39904G	-39.41	2.4G	-41.60	2.50862G	-51.67	16.20607G	-41.27	4

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

2412MHz

04/12/2024



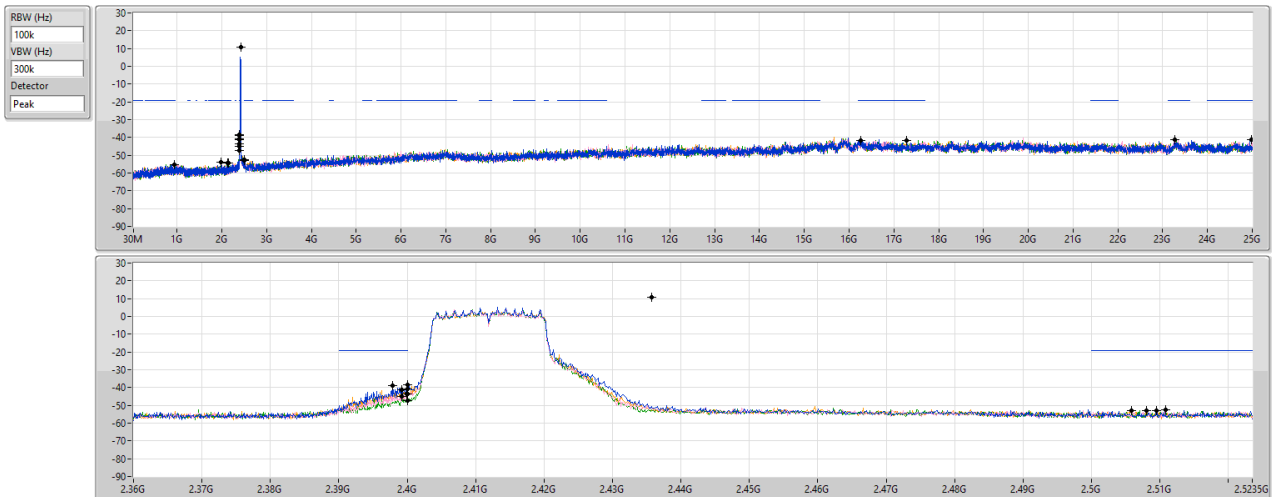
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	11.09	-18.91	2.30874G	-55.62	2.39992G	-32.09	2.4G	-35.90	2.5143G	-54.16	16.26507G	-41.56	1

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

CSEndB

2412MHz

18/11/2024



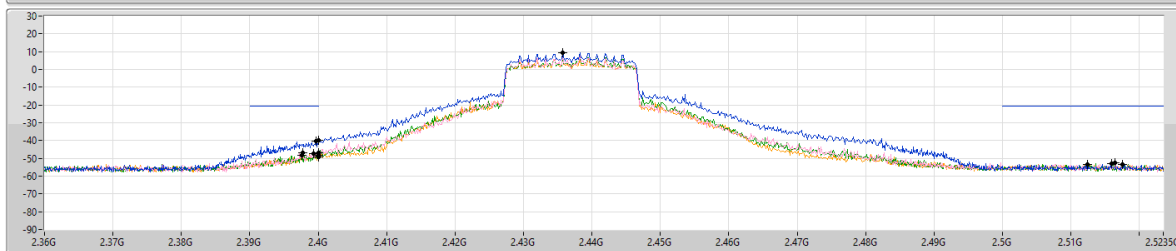
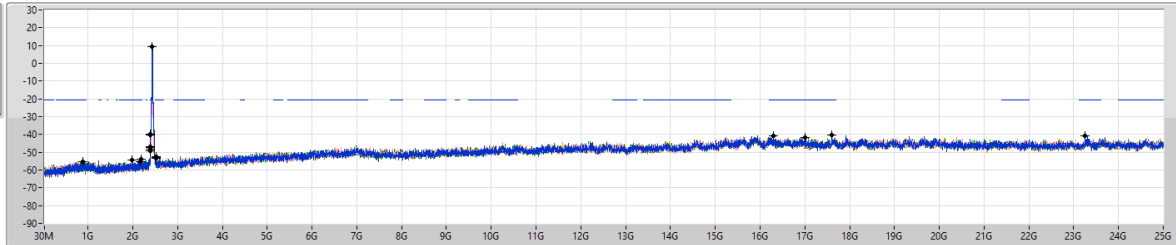
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	10.56	-19.44	2.12817G	-54.41	2.39792G	-39.12	2.4G	-38.38	2.5095G	-52.77	23.27493G	-41.31	1
2.43574G	10.56	-19.44	2.14448G	-54.40	2.39992G	-43.56	2.4G	-43.37	2.51078G	-52.60	24.98595G	-41.37	2
2.43574G	10.56	-19.44	1.9872G	-54.04	2.3992G	-45.00	2.4G	-47.28	2.5059G	-52.88	16.26507G	-41.49	3
2.43574G	10.56	-19.44	934.04M	-55.50	2.3992G	-41.30	2.4G	-40.96	2.50806G	-52.95	17.27651G	-41.88	4

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

CSNdB

2437MHz

18/11/2024

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

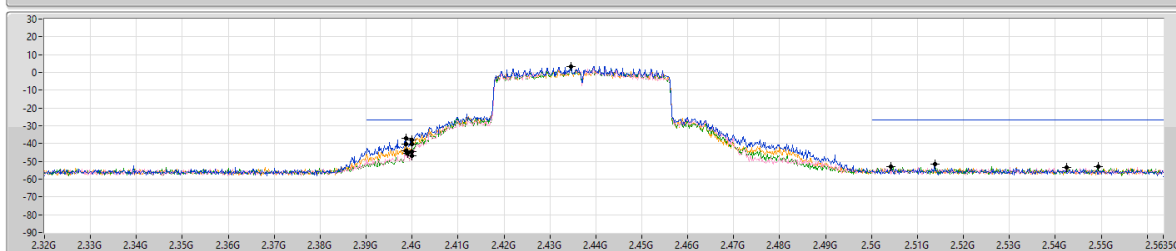
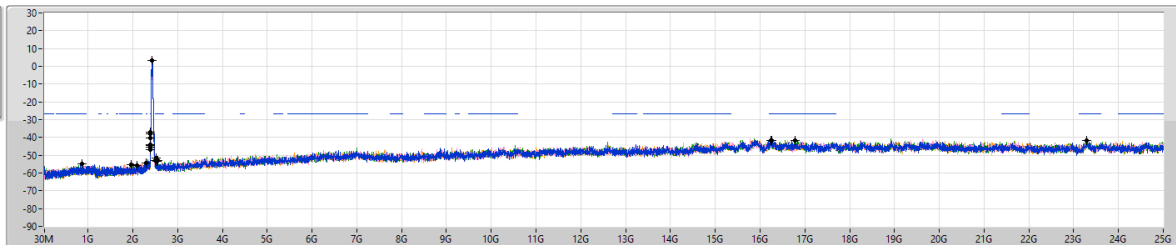
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	9.56	-20.44	1.97555G	-54.41	2.39968G	-40.43	2.4G	-39.81	2.51246G	-53.30	23.25526G	-40.66	1
2.43574G	9.56	-20.44	879.29M	-55.44	2.39776G	-46.96	2.4G	-46.82	2.51598G	-53.15	17.60242G	-40.10	2
2.43574G	9.56	-20.44	2.18059G	-53.71	2.3976G	-48.47	2.4G	-48.25	2.51646G	-52.44	16.29598G	-40.73	3
2.43574G	9.56	-20.44	2.16195G	-55.17	2.39936G	-47.29	2.4G	-49.32	2.51758G	-53.64	16.99837G	-41.88	4

2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

CSNdB

2437MHz

18/11/2024

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
2.43457G	3.51	-26.49	870.43M	-54.71	2.39872G	-37.12	2.4G	-38.00	2.51374G	-51.38	16.78263G	-41.52	1
2.43457G	3.51	-26.49	2.30054G	-54.19	2.39904G	-45.44	2.4G	-47.00	2.5043G	-52.81	23.29202G	-41.51	2
2.43457G	3.51	-26.49	2.10131G	-55.67	2.39872G	-44.17	2.4G	-44.36	2.54942G	-53.06	16.23855G	-41.87	3
2.43457G	3.51	-26.49	1.95475G	-55.27	2.39872G	-40.25	2.4G	-40.33	2.54254G	-53.46	16.26379G	-41.69	4



Summary

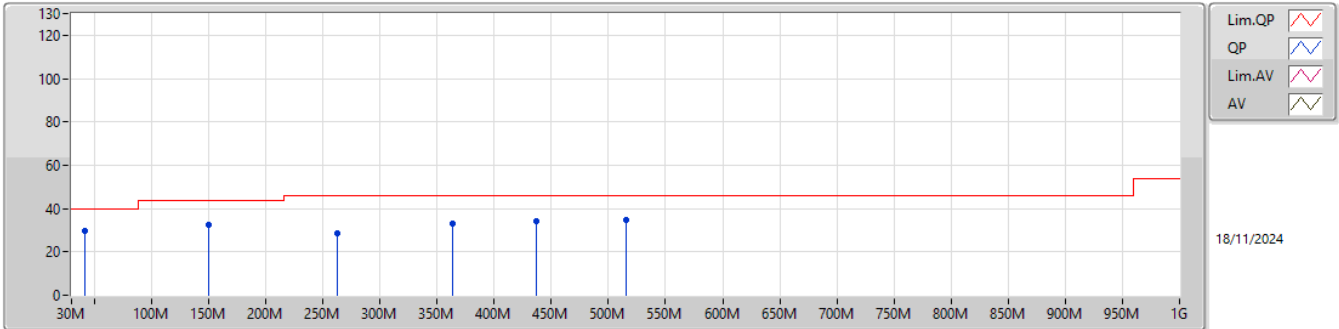
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11be EHT40_Nss1,(MCS0)_4TX	Pass	PK	150.28M	35.36	43.50	-8.14	3	Horizontal	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2437MHz_PoE	Pass	PK	41.64M	29.50	40.00	-10.50	3	Vertical	0	1.00
2437MHz_PoE	Pass	PK	150.28M	32.57	43.50	-10.93	3	Vertical	0	1.00
2437MHz_PoE	Pass	PK	262.8M	28.50	46.00	-17.50	3	Vertical	0	1.00
2437MHz_PoE	Pass	PK	363.68M	32.81	46.00	-13.19	3	Vertical	0	1.00
2437MHz_PoE	Pass	PK	437.4M	34.30	46.00	-11.70	3	Vertical	0	1.00
2437MHz_PoE	Pass	PK	515M	34.90	46.00	-11.10	3	Vertical	0	1.00
2437MHz_PoE	Pass	PK	66.86M	26.06	40.00	-13.94	3	Horizontal	360	1.00
2437MHz_PoE	Pass	PK	125.06M	31.65	43.50	-11.85	3	Horizontal	360	1.00
2437MHz_PoE	Pass	PK	150.28M	35.36	43.50	-8.14	3	Horizontal	360	1.00
2437MHz_PoE	Pass	PK	262.8M	31.56	46.00	-14.44	3	Horizontal	360	1.00
2437MHz_PoE	Pass	PK	332.64M	35.79	46.00	-10.21	3	Horizontal	360	1.00
2437MHz_PoE	Pass	PK	427.7M	34.40	46.00	-11.60	3	Horizontal	360	1.00

2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

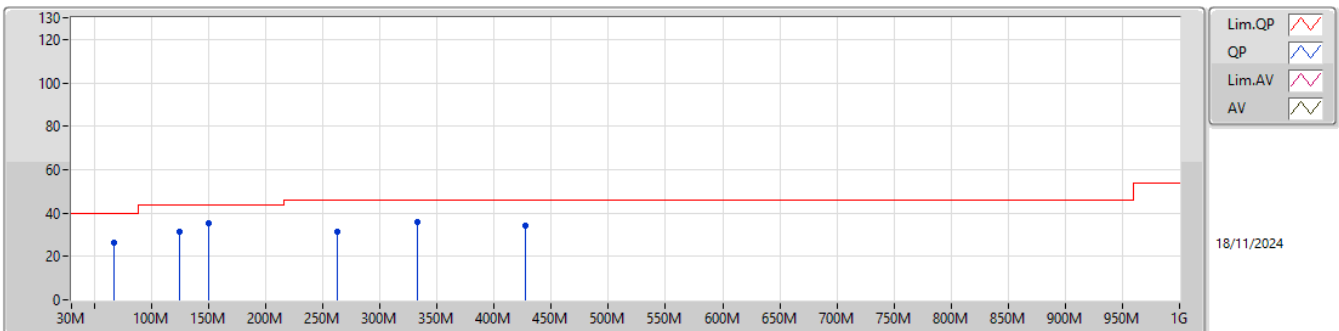
2437MHz_PoE



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	41.64M	29.50	40.00	-10.50	-9.61	3	Vertical	0	1.00	39.11	17.29	0.48	27.38
PK	150.28M	32.57	43.50	-10.93	-10.56	3	Vertical	0	1.00	43.13	15.57	0.93	27.06
PK	262.8M	28.50	46.00	-17.50	-6.82	3	Vertical	0	1.00	35.32	18.59	1.24	26.65
PK	363.68M	32.81	46.00	-13.19	-5.87	3	Vertical	0	1.00	38.68	19.80	1.45	27.12
PK	437.4M	34.30	46.00	-11.70	-4.50	3	Vertical	0	1.00	38.80	21.71	1.58	27.79
PK	515M	34.90	46.00	-11.10	-3.76	3	Vertical	0	1.00	38.66	22.69	1.71	28.16

2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

2437MHz_PoE



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	66.86M	26.06	40.00	-13.94	-15.43	3	Horizontal	360	1.00	41.49	11.29	0.61	27.33
PK	125.06M	31.65	43.50	-11.85	-9.33	3	Horizontal	360	1.00	40.98	16.99	0.85	27.17
PK	150.28M	35.36	43.50	-8.14	-10.56	3	Horizontal	360	1.00	45.92	15.57	0.93	27.06
PK	262.8M	31.56	46.00	-14.44	-6.82	3	Horizontal	360	1.00	38.38	18.59	1.24	26.65
PK	332.64M	35.79	46.00	-10.21	-6.78	3	Horizontal	360	1.00	42.57	18.74	1.39	26.91
PK	427.7M	34.40	46.00	-11.60	-4.51	3	Horizontal	360	1.00	38.91	21.61	1.56	27.68

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	2.3872G	52.89	54.00	-1.11	3	Horizontal	3	1.16
802.11b_Nss1,(1Mbps)_4TX	Pass	AV	2.4888G	53.31	54.00	-0.69	3	Horizontal	15	1.32
802.11g_Nss1,(6Mbps)_1TX	Pass	PK	2.4835G	72.98	74.00	-1.02	3	Horizontal	17	1.09
802.11g_Nss1,(6Mbps)_4TX	Pass	PK	2.389G	72.69	74.00	-1.31	3	Vertical	9	1.85
802.11be EHT20_Nss1,(MCS0)_4TX	Pass	AV	2.3892G	53.03	54.00	-0.97	3	Vertical	10	1.35
802.11be EHT40_Nss1,(MCS0)_4TX	Pass	AV	2.4854G	53.51	54.00	-0.49	3	Horizontal	360	1.50

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3888G	44.46	54.00	-9.54	3	Vertical	342	1.10
2412MHz	Pass	AV	2.4128G	101.54	Inf	-Inf	3	Vertical	342	1.10
2412MHz	Pass	PK	2.3892G	56.52	74.00	-17.48	3	Vertical	342	1.10
2412MHz	Pass	PK	2.413G	104.12	Inf	-Inf	3	Vertical	342	1.10
2412MHz	Pass	AV	2.3872G	52.89	54.00	-1.11	3	Horizontal	3	1.16
2412MHz	Pass	AV	2.4128G	111.77	Inf	-Inf	3	Horizontal	3	1.16
2412MHz	Pass	PK	2.3888G	60.34	74.00	-13.66	3	Horizontal	3	1.16
2412MHz	Pass	PK	2.413G	114.34	Inf	-Inf	3	Horizontal	3	1.16
2412MHz	Pass	AV	4.824G	45.70	54.00	-8.30	3	Vertical	332	1.78
2412MHz	Pass	PK	4.82386G	48.88	74.00	-25.12	3	Vertical	332	1.78
2412MHz	Pass	AV	4.82398G	41.73	54.00	-12.27	3	Horizontal	109	1.50
2412MHz	Pass	PK	4.82404G	46.32	74.00	-27.68	3	Horizontal	109	1.50
2417MHz	Pass	AV	2.39G	44.50	54.00	-9.50	3	Vertical	344	1.34
2417MHz	Pass	AV	2.4178G	100.86	Inf	-Inf	3	Vertical	344	1.34
2417MHz	Pass	PK	2.3898G	56.62	74.00	-17.38	3	Vertical	344	1.34
2417MHz	Pass	PK	2.418G	103.44	Inf	-Inf	3	Vertical	344	1.34
2417MHz	Pass	AV	2.39G	52.74	54.00	-1.26	3	Horizontal	6	1.17
2417MHz	Pass	AV	2.4178G	110.42	Inf	-Inf	3	Horizontal	6	1.17
2417MHz	Pass	PK	2.39G	60.13	74.00	-13.87	3	Horizontal	6	1.17
2417MHz	Pass	PK	2.4162G	112.98	Inf	-Inf	3	Horizontal	6	1.17
2437MHz	Pass	AV	2.3882G	42.87	54.00	-11.13	3	Vertical	347	1.24
2437MHz	Pass	AV	2.4378G	102.18	Inf	-Inf	3	Vertical	347	1.24
2437MHz	Pass	AV	2.4846G	44.38	54.00	-9.62	3	Vertical	347	1.24
2437MHz	Pass	PK	2.3742G	56.44	74.00	-17.56	3	Vertical	347	1.24
2437MHz	Pass	PK	2.4378G	104.90	Inf	-Inf	3	Vertical	347	1.24
2437MHz	Pass	PK	2.4835G	56.71	74.00	-17.29	3	Vertical	347	1.24
2437MHz	Pass	AV	2.3882G	47.94	54.00	-6.06	3	Horizontal	8	1.11
2437MHz	Pass	AV	2.4362G	112.33	Inf	-Inf	3	Horizontal	8	1.11
2437MHz	Pass	AV	2.4835G	50.79	54.00	-3.21	3	Horizontal	8	1.11
2437MHz	Pass	PK	2.3898G	57.65	74.00	-16.35	3	Horizontal	8	1.11
2437MHz	Pass	PK	2.4362G	115.07	Inf	-Inf	3	Horizontal	8	1.11
2437MHz	Pass	PK	2.4835G	59.14	74.00	-14.86	3	Horizontal	8	1.11
2437MHz	Pass	AV	4.87398G	49.43	54.00	-4.57	3	Vertical	337	1.49
2437MHz	Pass	PK	4.87402G	51.74	74.00	-22.26	3	Vertical	337	1.49
2437MHz	Pass	AV	4.87396G	47.69	54.00	-6.31	3	Horizontal	19	2.29
2437MHz	Pass	PK	4.87394G	50.41	74.00	-23.59	3	Horizontal	19	2.29
2457MHz	Pass	AV	2.4562G	101.49	Inf	-Inf	3	Vertical	342	1.21
2457MHz	Pass	AV	2.4838G	44.75	54.00	-9.25	3	Vertical	342	1.21
2457MHz	Pass	PK	2.4562G	104.09	Inf	-Inf	3	Vertical	342	1.21
2457MHz	Pass	PK	2.4874G	56.95	74.00	-17.05	3	Vertical	342	1.21
2457MHz	Pass	AV	2.4562G	110.88	Inf	-Inf	3	Horizontal	8	1.34
2457MHz	Pass	AV	2.4838G	49.68	54.00	-4.32	3	Horizontal	8	1.34
2457MHz	Pass	PK	2.4562G	113.54	Inf	-Inf	3	Horizontal	8	1.34
2457MHz	Pass	PK	2.484G	59.47	74.00	-14.53	3	Horizontal	8	1.34
2462MHz	Pass	AV	2.4612G	100.43	Inf	-Inf	3	Vertical	345	1.20
2462MHz	Pass	AV	2.4835G	44.94	54.00	-9.06	3	Vertical	345	1.20
2462MHz	Pass	PK	2.4612G	103.14	Inf	-Inf	3	Vertical	345	1.20
2462MHz	Pass	PK	2.4926G	56.38	74.00	-17.62	3	Vertical	345	1.20
2462MHz	Pass	AV	2.4612G	110.13	Inf	-Inf	3	Horizontal	15	1.07
2462MHz	Pass	AV	2.4835G	51.62	54.00	-2.38	3	Horizontal	15	1.07
2462MHz	Pass	PK	2.4612G	112.76	Inf	-Inf	3	Horizontal	15	1.07
2462MHz	Pass	PK	2.4835G	59.03	74.00	-14.97	3	Horizontal	15	1.07
2462MHz	Pass	AV	4.92396G	48.20	54.00	-5.80	3	Vertical	241	1.61
2462MHz	Pass	PK	4.92394G	50.98	74.00	-23.02	3	Vertical	241	1.61
2462MHz	Pass	AV	4.92398G	47.04	54.00	-6.96	3	Horizontal	24	1.87
2462MHz	Pass	PK	4.92396G	50.13	74.00	-23.87	3	Horizontal	24	1.87
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3872G	51.54	54.00	-2.46	3	Vertical	353	1.14
2412MHz	Pass	AV	2.4112G	112.89	Inf	-Inf	3	Vertical	353	1.14
2412MHz	Pass	PK	2.387G	59.48	74.00	-14.52	3	Vertical	353	1.14

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2412MHz	Pass	PK	2.411G	115.57	Inf	-Inf	3	Vertical	353	1.14
2412MHz	Pass	AV	2.3872G	49.27	54.00	-4.73	3	Horizontal	13	1.08
2412MHz	Pass	AV	2.4128G	112.87	Inf	-Inf	3	Horizontal	13	1.08
2412MHz	Pass	PK	2.389G	59.04	74.00	-14.96	3	Horizontal	13	1.08
2412MHz	Pass	PK	2.4128G	115.49	Inf	-Inf	3	Horizontal	13	1.08
2412MHz	Pass	AV	4.82394G	45.17	54.00	-8.83	3	Vertical	356	1.48
2412MHz	Pass	PK	4.82406G	48.39	74.00	-25.61	3	Vertical	356	1.48
2412MHz	Pass	AV	4.824G	42.41	54.00	-11.59	3	Horizontal	11	1.34
2412MHz	Pass	PK	4.82406G	47.07	74.00	-26.93	3	Horizontal	11	1.34
2417MHz	Pass	AV	2.39G	48.45	54.00	-5.55	3	Vertical	21	1.87
2417MHz	Pass	AV	2.4178G	114.43	Inf	-Inf	3	Vertical	21	1.87
2417MHz	Pass	PK	2.3898G	58.19	74.00	-15.81	3	Vertical	21	1.87
2417MHz	Pass	PK	2.418G	117.07	Inf	-Inf	3	Vertical	21	1.87
2417MHz	Pass	AV	2.39G	53.25	54.00	-0.75	3	Horizontal	345	1.88
2417MHz	Pass	AV	2.4162G	114.50	Inf	-Inf	3	Horizontal	345	1.88
2417MHz	Pass	PK	2.3898G	60.12	74.00	-13.88	3	Horizontal	345	1.88
2417MHz	Pass	PK	2.4162G	117.14	Inf	-Inf	3	Horizontal	345	1.88
2437MHz	Pass	AV	2.3898G	44.90	54.00	-9.10	3	Vertical	347	1.78
2437MHz	Pass	AV	2.4362G	114.74	Inf	-Inf	3	Vertical	347	1.78
2437MHz	Pass	AV	2.4835G	45.48	54.00	-8.52	3	Vertical	347	1.78
2437MHz	Pass	PK	2.389G	56.12	74.00	-17.88	3	Vertical	347	1.78
2437MHz	Pass	PK	2.4362G	117.39	Inf	-Inf	3	Vertical	347	1.78
2437MHz	Pass	PK	2.4835G	57.11	74.00	-16.89	3	Vertical	347	1.78
2437MHz	Pass	AV	2.3898G	49.84	54.00	-4.16	3	Horizontal	10	1.08
2437MHz	Pass	AV	2.4362G	115.38	Inf	-Inf	3	Horizontal	10	1.08
2437MHz	Pass	AV	2.4835G	50.59	54.00	-3.41	3	Horizontal	10	1.08
2437MHz	Pass	PK	2.3898G	58.19	74.00	-15.81	3	Horizontal	10	1.08
2437MHz	Pass	PK	2.4362G	118.06	Inf	-Inf	3	Horizontal	10	1.08
2437MHz	Pass	PK	2.4838G	59.38	74.00	-14.62	3	Horizontal	10	1.08
2437MHz	Pass	AV	4.87394G	51.13	54.00	-2.87	3	Vertical	341	1.50
2437MHz	Pass	PK	4.87408G	53.49	74.00	-20.51	3	Vertical	341	1.50
2437MHz	Pass	AV	4.87394G	48.87	54.00	-5.13	3	Horizontal	25	2.25
2437MHz	Pass	PK	4.8739G	51.47	74.00	-22.53	3	Horizontal	25	2.25
2457MHz	Pass	AV	2.4562G	115.76	Inf	-Inf	3	Vertical	25	2.15
2457MHz	Pass	AV	2.4838G	47.98	54.00	-6.02	3	Vertical	25	2.15
2457MHz	Pass	PK	2.4562G	118.56	Inf	-Inf	3	Vertical	25	2.15
2457MHz	Pass	PK	2.4856G	59.06	74.00	-14.94	3	Vertical	25	2.15
2457MHz	Pass	AV	2.4562G	114.48	Inf	-Inf	3	Horizontal	352	2.05
2457MHz	Pass	AV	2.4835G	49.62	54.00	-4.38	3	Horizontal	352	2.05
2457MHz	Pass	PK	2.456G	117.15	Inf	-Inf	3	Horizontal	352	2.05
2457MHz	Pass	PK	2.4836G	58.91	74.00	-15.09	3	Horizontal	352	2.05
2462MHz	Pass	AV	2.4612G	111.80	Inf	-Inf	3	Vertical	346	1.96
2462MHz	Pass	AV	2.4862G	50.02	54.00	-3.98	3	Vertical	346	1.96
2462MHz	Pass	PK	2.4612G	114.46	Inf	-Inf	3	Vertical	346	1.96
2462MHz	Pass	PK	2.4858G	58.81	74.00	-15.19	3	Vertical	346	1.96
2462MHz	Pass	AV	2.4612G	112.28	Inf	-Inf	3	Horizontal	15	1.32
2462MHz	Pass	AV	2.4888G	53.31	54.00	-0.69	3	Horizontal	15	1.32
2462MHz	Pass	PK	2.4612G	114.94	Inf	-Inf	3	Horizontal	15	1.32
2462MHz	Pass	PK	2.4864G	60.27	74.00	-13.73	3	Horizontal	15	1.32
2462MHz	Pass	AV	4.92396G	49.16	54.00	-4.84	3	Vertical	340	1.44
2462MHz	Pass	PK	4.92394G	51.96	74.00	-22.04	3	Vertical	340	1.44
2462MHz	Pass	AV	4.92396G	45.01	54.00	-8.99	3	Horizontal	24	2.00
2462MHz	Pass	PK	4.92392G	48.80	74.00	-25.20	3	Horizontal	24	2.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	44.91	54.00	-9.09	3	Vertical	334	1.14
2412MHz	Pass	AV	2.4132G	92.90	Inf	-Inf	3	Vertical	334	1.14
2412MHz	Pass	PK	2.389G	61.33	74.00	-12.67	3	Vertical	334	1.14
2412MHz	Pass	PK	2.4136G	103.22	Inf	-Inf	3	Vertical	334	1.14
2412MHz	Pass	AV	2.39G	50.49	54.00	-3.51	3	Horizontal	7	1.17
2412MHz	Pass	AV	2.413G	103.42	Inf	-Inf	3	Horizontal	7	1.17
2412MHz	Pass	PK	2.39G	69.94	74.00	-4.06	3	Horizontal	7	1.17
2412MHz	Pass	PK	2.4134G	113.57	Inf	-Inf	3	Horizontal	7	1.17

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2412MHz	Pass	AV	4.82392G	29.16	54.00	-24.84	3	Vertical	331	1.50
2412MHz	Pass	PK	4.8243G	42.73	74.00	-31.27	3	Vertical	331	1.50
2412MHz	Pass	AV	4.82318G	28.15	54.00	-25.85	3	Horizontal	343	1.74
2412MHz	Pass	PK	4.82716G	41.39	74.00	-32.61	3	Horizontal	343	1.74
2417MHz	Pass	AV	2.39G	44.36	54.00	-9.64	3	Vertical	344	1.08
2417MHz	Pass	AV	2.4184G	94.34	Inf	-Inf	3	Vertical	344	1.08
2417MHz	Pass	PK	2.388G	60.55	74.00	-13.45	3	Vertical	344	1.08
2417MHz	Pass	PK	2.4202G	104.48	Inf	-Inf	3	Vertical	344	1.08
2417MHz	Pass	AV	2.39G	50.18	54.00	-3.82	3	Horizontal	7	1.18
2417MHz	Pass	AV	2.4176G	103.86	Inf	-Inf	3	Horizontal	7	1.18
2417MHz	Pass	PK	2.3898G	72.77	74.00	-1.23	3	Horizontal	7	1.18
2417MHz	Pass	PK	2.4186G	113.82	Inf	-Inf	3	Horizontal	7	1.18
2437MHz	Pass	AV	2.3898G	43.82	54.00	-10.18	3	Vertical	343	1.25
2437MHz	Pass	AV	2.4354G	96.72	Inf	-Inf	3	Vertical	343	1.25
2437MHz	Pass	AV	2.4835G	45.14	54.00	-8.86	3	Vertical	343	1.25
2437MHz	Pass	PK	2.389G	58.09	74.00	-15.91	3	Vertical	343	1.25
2437MHz	Pass	PK	2.4386G	106.56	Inf	-Inf	3	Vertical	343	1.25
2437MHz	Pass	PK	2.4838G	59.70	74.00	-14.30	3	Vertical	343	1.25
2437MHz	Pass	AV	2.3898G	48.96	54.00	-5.04	3	Horizontal	6	1.12
2437MHz	Pass	AV	2.4354G	106.65	Inf	-Inf	3	Horizontal	6	1.12
2437MHz	Pass	AV	2.4835G	51.95	54.00	-2.05	3	Horizontal	6	1.12
2437MHz	Pass	PK	2.3898G	64.98	74.00	-9.02	3	Horizontal	6	1.12
2437MHz	Pass	PK	2.4342G	117.14	Inf	-Inf	3	Horizontal	6	1.12
2437MHz	Pass	PK	2.4842G	69.71	74.00	-4.29	3	Horizontal	6	1.12
2437MHz	Pass	AV	4.87406G	33.66	54.00	-20.34	3	Vertical	16	1.50
2437MHz	Pass	PK	4.87894G	47.33	74.00	-26.67	3	Vertical	16	1.50
2437MHz	Pass	AV	4.87348G	32.86	54.00	-21.14	3	Horizontal	19	2.26
2437MHz	Pass	PK	4.8741G	46.48	74.00	-27.52	3	Horizontal	19	2.26
2457MHz	Pass	AV	2.4564G	94.22	Inf	-Inf	3	Vertical	342	1.22
2457MHz	Pass	AV	2.4835G	46.23	54.00	-7.77	3	Vertical	342	1.22
2457MHz	Pass	PK	2.456G	103.99	Inf	-Inf	3	Vertical	342	1.22
2457MHz	Pass	PK	2.4844G	61.46	74.00	-12.54	3	Vertical	342	1.22
2457MHz	Pass	AV	2.456G	103.59	Inf	-Inf	3	Horizontal	10	1.11
2457MHz	Pass	AV	2.4835G	52.22	54.00	-1.78	3	Horizontal	10	1.11
2457MHz	Pass	PK	2.4586G	113.34	Inf	-Inf	3	Horizontal	10	1.11
2457MHz	Pass	PK	2.4835G	70.86	74.00	-3.14	3	Horizontal	10	1.11
2462MHz	Pass	AV	2.4604G	92.33	Inf	-Inf	3	Vertical	342	1.21
2462MHz	Pass	AV	2.4835G	47.05	54.00	-6.95	3	Vertical	342	1.21
2462MHz	Pass	PK	2.4596G	102.27	Inf	-Inf	3	Vertical	342	1.21
2462MHz	Pass	PK	2.4836G	62.58	74.00	-11.42	3	Vertical	342	1.21
2462MHz	Pass	AV	2.461G	101.94	Inf	-Inf	3	Horizontal	17	1.09
2462MHz	Pass	AV	2.4835G	52.67	54.00	-1.33	3	Horizontal	17	1.09
2462MHz	Pass	PK	2.4608G	111.72	Inf	-Inf	3	Horizontal	17	1.09
2462MHz	Pass	PK	2.4835G	72.98	74.00	-1.02	3	Horizontal	17	1.09
2462MHz	Pass	AV	4.92446G	31.03	54.00	-22.97	3	Vertical	234	1.86
2462MHz	Pass	PK	4.92684G	45.08	74.00	-28.92	3	Vertical	234	1.86
2462MHz	Pass	AV	4.92262G	30.41	54.00	-23.59	3	Horizontal	22	1.70
2462MHz	Pass	PK	4.92552G	44.21	74.00	-29.79	3	Horizontal	22	1.70
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.32	54.00	-1.68	3	Vertical	9	1.85
2412MHz	Pass	AV	2.4132G	107.07	Inf	-Inf	3	Vertical	9	1.85
2412MHz	Pass	PK	2.389G	72.69	74.00	-1.31	3	Vertical	9	1.85
2412MHz	Pass	PK	2.4138G	117.81	Inf	-Inf	3	Vertical	9	1.85
2412MHz	Pass	AV	2.39G	46.79	54.00	-7.21	3	Horizontal	352	1.89
2412MHz	Pass	AV	2.411G	106.43	Inf	-Inf	3	Horizontal	352	1.89
2412MHz	Pass	PK	2.3882G	66.24	74.00	-7.76	3	Horizontal	352	1.89
2412MHz	Pass	PK	2.411G	117.19	Inf	-Inf	3	Horizontal	352	1.89
2412MHz	Pass	AV	4.82642G	30.50	54.00	-23.50	3	Vertical	4	2.01
2412MHz	Pass	PK	4.82712G	44.28	74.00	-29.72	3	Vertical	4	2.01
2412MHz	Pass	AV	4.82154G	28.76	54.00	-25.24	3	Horizontal	52	1.78
2412MHz	Pass	PK	4.8201G	41.63	74.00	-32.37	3	Horizontal	52	1.78
2417MHz	Pass	AV	2.3898G	49.85	54.00	-4.15	3	Vertical	358	1.65

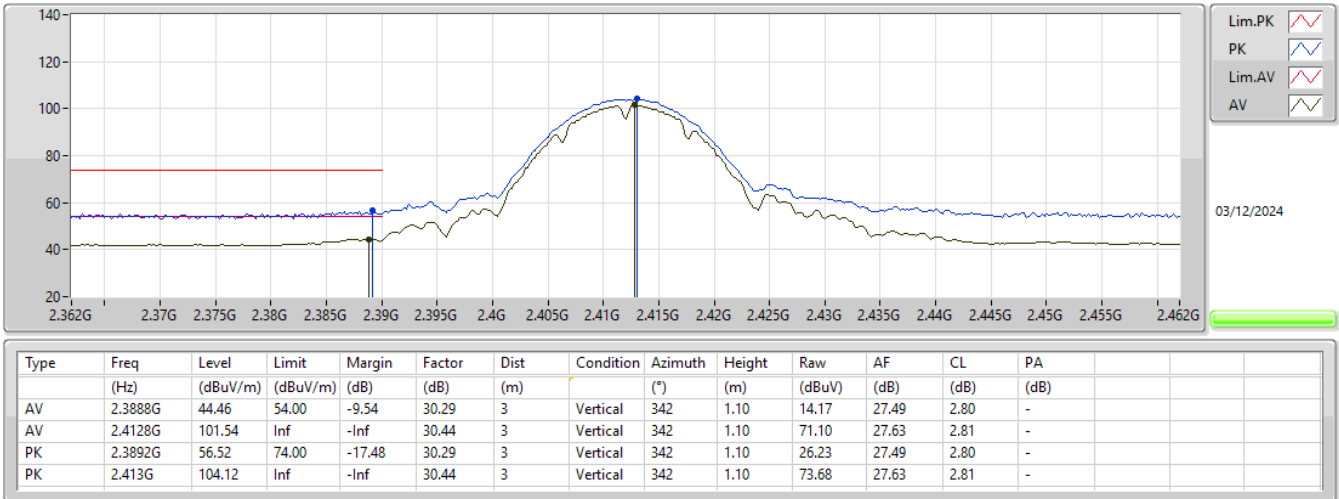
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2417MHz	Pass	AV	2.41G	106.81	Inf	-Inf	3	Vertical	358	1.65
2417MHz	Pass	PK	2.3896G	70.49	74.00	-3.51	3	Vertical	358	1.65
2417MHz	Pass	PK	2.4098G	116.86	Inf	-Inf	3	Vertical	358	1.65
2417MHz	Pass	AV	2.39G	47.59	54.00	-6.41	3	Horizontal	360	1.90
2417MHz	Pass	AV	2.4156G	106.71	Inf	-Inf	3	Horizontal	360	1.90
2417MHz	Pass	PK	2.3896G	69.51	74.00	-4.49	3	Horizontal	360	1.90
2417MHz	Pass	PK	2.4146G	116.17	Inf	-Inf	3	Horizontal	360	1.90
2437MHz	Pass	AV	2.3882G	50.47	54.00	-3.53	3	Vertical	24	1.88
2437MHz	Pass	AV	2.4362G	110.72	Inf	-Inf	3	Vertical	24	1.88
2437MHz	Pass	AV	2.4858G	49.94	54.00	-4.06	3	Vertical	24	1.88
2437MHz	Pass	PK	2.3862G	69.26	74.00	-4.74	3	Vertical	24	1.88
2437MHz	Pass	PK	2.4358G	121.14	Inf	-Inf	3	Vertical	24	1.88
2437MHz	Pass	PK	2.4874G	69.85	74.00	-4.15	3	Vertical	24	1.88
2437MHz	Pass	AV	2.387G	47.50	54.00	-6.50	3	Horizontal	353	1.80
2437MHz	Pass	AV	2.4354G	109.99	Inf	-Inf	3	Horizontal	353	1.80
2437MHz	Pass	AV	2.4842G	49.64	54.00	-4.36	3	Horizontal	353	1.80
2437MHz	Pass	PK	2.3878G	65.56	74.00	-8.44	3	Horizontal	353	1.80
2437MHz	Pass	PK	2.4358G	119.34	Inf	-Inf	3	Horizontal	353	1.80
2437MHz	Pass	PK	2.4835G	68.49	74.00	-5.51	3	Horizontal	353	1.80
2437MHz	Pass	AV	4.87684G	38.07	54.00	-15.93	3	Vertical	3	1.79
2437MHz	Pass	PK	4.87728G	51.48	74.00	-22.52	3	Vertical	3	1.79
2437MHz	Pass	AV	4.87572G	37.28	54.00	-16.72	3	Horizontal	298	2.22
2437MHz	Pass	PK	4.8768G	50.79	74.00	-23.21	3	Horizontal	298	2.22
2457MHz	Pass	AV	2.4504G	108.62	Inf	-Inf	3	Vertical	356	1.37
2457MHz	Pass	AV	2.4836G	51.40	54.00	-2.60	3	Vertical	356	1.37
2457MHz	Pass	PK	2.4512G	119.47	Inf	-Inf	3	Vertical	356	1.37
2457MHz	Pass	PK	2.4844G	68.57	74.00	-5.43	3	Vertical	356	1.37
2457MHz	Pass	AV	2.4556G	106.77	Inf	-Inf	3	Horizontal	360	1.75
2457MHz	Pass	AV	2.4836G	52.68	54.00	-1.32	3	Horizontal	360	1.75
2457MHz	Pass	PK	2.4552G	117.23	Inf	-Inf	3	Horizontal	360	1.75
2457MHz	Pass	PK	2.4835G	71.29	74.00	-2.71	3	Horizontal	360	1.75
2462MHz	Pass	AV	2.4548G	106.69	Inf	-Inf	3	Vertical	2	1.13
2462MHz	Pass	AV	2.4835G	48.97	54.00	-5.03	3	Vertical	2	1.13
2462MHz	Pass	PK	2.455G	117.41	Inf	-Inf	3	Vertical	2	1.13
2462MHz	Pass	PK	2.4836G	66.25	74.00	-7.75	3	Vertical	2	1.13
2462MHz	Pass	AV	2.4572G	105.36	Inf	-Inf	3	Horizontal	16	1.06
2462MHz	Pass	AV	2.4836G	50.75	54.00	-3.25	3	Horizontal	16	1.06
2462MHz	Pass	PK	2.4568G	116.28	Inf	-Inf	3	Horizontal	16	1.06
2462MHz	Pass	PK	2.4836G	72.32	74.00	-1.68	3	Horizontal	16	1.06
2462MHz	Pass	AV	4.92264G	33.14	54.00	-20.86	3	Vertical	332	1.36
2462MHz	Pass	PK	4.92288G	46.24	74.00	-27.76	3	Vertical	332	1.36
2462MHz	Pass	AV	4.9254G	32.19	54.00	-21.81	3	Horizontal	304	2.21
2462MHz	Pass	PK	4.9244G	45.70	74.00	-28.30	3	Horizontal	304	2.21
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3892G	53.03	54.00	-0.97	3	Vertical	10	1.35
2412MHz	Pass	AV	2.4132G	108.34	Inf	-Inf	3	Vertical	10	1.35
2412MHz	Pass	PK	2.3882G	72.25	74.00	-1.75	3	Vertical	10	1.35
2412MHz	Pass	PK	2.4082G	118.78	Inf	-Inf	3	Vertical	10	1.35
2412MHz	Pass	AV	2.3878G	49.59	54.00	-4.41	3	Horizontal	0	2.15
2412MHz	Pass	AV	2.4114G	105.33	Inf	-Inf	3	Horizontal	0	2.15
2412MHz	Pass	PK	2.3892G	68.22	74.00	-5.78	3	Horizontal	0	2.15
2412MHz	Pass	PK	2.4108G	116.98	Inf	-Inf	3	Horizontal	0	2.15
2412MHz	Pass	AV	4.82944G	31.48	54.00	-22.52	3	Vertical	359	1.50
2412MHz	Pass	PK	4.82404G	42.25	74.00	-31.75	3	Vertical	359	1.50
2412MHz	Pass	AV	4.8192G	30.32	54.00	-23.68	3	Horizontal	20	1.82
2412MHz	Pass	PK	4.81928G	42.79	74.00	-31.21	3	Horizontal	20	1.82
2417MHz	Pass	AV	2.3886G	51.29	54.00	-2.71	3	Vertical	360	1.59
2417MHz	Pass	AV	2.4184G	108.55	Inf	-Inf	3	Vertical	360	1.59
2417MHz	Pass	PK	2.3888G	68.51	74.00	-5.49	3	Vertical	360	1.59
2417MHz	Pass	PK	2.4132G	119.12	Inf	-Inf	3	Vertical	360	1.59
2417MHz	Pass	AV	2.39G	50.02	54.00	-3.98	3	Horizontal	360	2.16
2417MHz	Pass	AV	2.4164G	106.45	Inf	-Inf	3	Horizontal	360	2.16

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2417MHz	Pass	PK	2.39G	70.39	74.00	-3.61	3	Horizontal	360	2.16
2417MHz	Pass	PK	2.4164G	116.64	Inf	-Inf	3	Horizontal	360	2.16
2437MHz	Pass	AV	2.3882G	51.32	54.00	-2.68	3	Vertical	0	1.26
2437MHz	Pass	AV	2.4386G	111.67	Inf	-Inf	3	Vertical	0	1.26
2437MHz	Pass	AV	2.4835G	52.50	54.00	-1.50	3	Vertical	0	1.26
2437MHz	Pass	PK	2.389G	69.03	74.00	-4.97	3	Vertical	0	1.26
2437MHz	Pass	PK	2.4382G	122.23	Inf	-Inf	3	Vertical	0	1.26
2437MHz	Pass	PK	2.4842G	70.10	74.00	-3.90	3	Vertical	0	1.26
2437MHz	Pass	AV	2.389G	49.22	54.00	-4.78	3	Horizontal	10	1.13
2437MHz	Pass	AV	2.4342G	108.67	Inf	-Inf	3	Horizontal	10	1.13
2437MHz	Pass	AV	2.4842G	51.00	54.00	-3.00	3	Horizontal	10	1.13
2437MHz	Pass	PK	2.389G	67.28	74.00	-6.72	3	Horizontal	10	1.13
2437MHz	Pass	PK	2.439G	119.32	Inf	-Inf	3	Horizontal	10	1.13
2437MHz	Pass	PK	2.4838G	67.84	74.00	-6.16	3	Horizontal	10	1.13
2437MHz	Pass	AV	4.8796G	36.60	54.00	-17.40	3	Vertical	5	2.16
2437MHz	Pass	PK	4.87648G	48.59	74.00	-25.41	3	Vertical	5	2.16
2437MHz	Pass	AV	4.87432G	34.59	54.00	-19.41	3	Horizontal	304	2.79
2437MHz	Pass	PK	4.87528G	46.00	74.00	-28.00	3	Horizontal	304	2.79
2457MHz	Pass	AV	2.4534G	108.21	Inf	-Inf	3	Vertical	357	1.13
2457MHz	Pass	AV	2.4835G	49.64	54.00	-4.36	3	Vertical	357	1.13
2457MHz	Pass	PK	2.4536G	118.48	Inf	-Inf	3	Vertical	357	1.13
2457MHz	Pass	PK	2.4836G	62.71	74.00	-11.29	3	Vertical	357	1.13
2457MHz	Pass	AV	2.4542G	105.59	Inf	-Inf	3	Horizontal	19	1.11
2457MHz	Pass	AV	2.4836G	52.52	54.00	-1.48	3	Horizontal	19	1.11
2457MHz	Pass	PK	2.4538G	117.20	Inf	-Inf	3	Horizontal	19	1.11
2457MHz	Pass	PK	2.4836G	66.82	74.00	-7.18	3	Horizontal	19	1.11
2462MHz	Pass	AV	2.4586G	105.99	Inf	-Inf	3	Vertical	0	1.41
2462MHz	Pass	AV	2.4836G	51.13	54.00	-2.87	3	Vertical	0	1.41
2462MHz	Pass	PK	2.4534G	117.35	Inf	-Inf	3	Vertical	0	1.41
2462MHz	Pass	PK	2.4835G	62.92	74.00	-11.08	3	Vertical	0	1.41
2462MHz	Pass	AV	2.4594G	104.19	Inf	-Inf	3	Horizontal	17	1.08
2462MHz	Pass	AV	2.4836G	52.29	54.00	-1.71	3	Horizontal	17	1.08
2462MHz	Pass	PK	2.459G	114.97	Inf	-Inf	3	Horizontal	17	1.08
2462MHz	Pass	PK	2.4836G	67.72	74.00	-6.28	3	Horizontal	17	1.08
2462MHz	Pass	AV	4.92336G	32.43	54.00	-21.57	3	Vertical	335	1.50
2462MHz	Pass	PK	4.92676G	44.60	74.00	-29.40	3	Vertical	335	1.50
2462MHz	Pass	AV	4.92648G	31.49	54.00	-22.51	3	Horizontal	302	2.03
2462MHz	Pass	PK	4.92968G	42.80	74.00	-31.20	3	Horizontal	302	2.03
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.3884G	51.11	54.00	-2.89	3	Vertical	360	1.50
2422MHz	Pass	AV	2.418G	103.60	Inf	-Inf	3	Vertical	360	1.50
2422MHz	Pass	AV	2.4835G	45.30	54.00	-8.70	3	Vertical	360	1.50
2422MHz	Pass	PK	2.3888G	63.27	74.00	-10.73	3	Vertical	360	1.50
2422MHz	Pass	PK	2.4184G	115.42	Inf	-Inf	3	Vertical	360	1.50
2422MHz	Pass	PK	2.4852G	56.50	74.00	-17.50	3	Vertical	360	1.50
2422MHz	Pass	AV	2.3896G	53.24	54.00	-0.76	3	Horizontal	360	1.00
2422MHz	Pass	AV	2.4204G	101.43	Inf	-Inf	3	Horizontal	360	1.00
2422MHz	Pass	AV	2.484G	45.67	54.00	-8.33	3	Horizontal	360	1.00
2422MHz	Pass	PK	2.3888G	68.60	74.00	-5.40	3	Horizontal	360	1.00
2422MHz	Pass	PK	2.42G	112.92	Inf	-Inf	3	Horizontal	360	1.00
2422MHz	Pass	PK	2.4932G	56.28	74.00	-17.72	3	Horizontal	360	1.00
2422MHz	Pass	AV	4.849G	29.53	54.00	-24.47	3	Vertical	356	2.06
2422MHz	Pass	PK	4.84588G	42.01	74.00	-31.99	3	Vertical	356	2.06
2422MHz	Pass	AV	4.8494G	29.11	54.00	-24.89	3	Horizontal	336	1.13
2422MHz	Pass	PK	4.83924G	41.00	74.00	-33.00	3	Horizontal	336	1.13
2427MHz	Pass	AV	2.389G	53.12	54.00	-0.88	3	Vertical	360	1.15
2427MHz	Pass	AV	2.4234G	104.25	Inf	-Inf	3	Vertical	360	1.15
2427MHz	Pass	AV	2.4838G	46.12	54.00	-7.88	3	Vertical	360	1.15
2427MHz	Pass	PK	2.389G	66.24	74.00	-7.76	3	Vertical	360	1.15
2427MHz	Pass	PK	2.4234G	115.58	Inf	-Inf	3	Vertical	360	1.15
2427MHz	Pass	PK	2.4838G	57.71	74.00	-16.29	3	Vertical	360	1.15
2427MHz	Pass	AV	2.3898G	53.07	54.00	-0.93	3	Horizontal	12	1.16

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2427MHz	Pass	AV	2.4242G	102.20	Inf	-Inf	3	Horizontal	12	1.16
2427MHz	Pass	AV	2.485G	45.86	54.00	-8.14	3	Horizontal	12	1.16
2427MHz	Pass	PK	2.3898G	65.80	74.00	-8.20	3	Horizontal	12	1.16
2427MHz	Pass	PK	2.4246G	112.92	Inf	-Inf	3	Horizontal	12	1.16
2427MHz	Pass	PK	2.4898G	57.88	74.00	-16.12	3	Horizontal	12	1.16
2437MHz	Pass	AV	2.3886G	51.68	54.00	-2.32	3	Vertical	360	1.29
2437MHz	Pass	AV	2.4386G	105.97	Inf	-Inf	3	Vertical	360	1.29
2437MHz	Pass	AV	2.4835G	52.55	54.00	-1.45	3	Vertical	360	1.29
2437MHz	Pass	PK	2.389G	69.46	74.00	-4.54	3	Vertical	360	1.29
2437MHz	Pass	PK	2.4334G	116.06	Inf	-Inf	3	Vertical	360	1.29
2437MHz	Pass	PK	2.4835G	66.07	74.00	-7.93	3	Vertical	360	1.29
2437MHz	Pass	AV	2.3898G	53.13	54.00	-0.87	3	Horizontal	360	1.50
2437MHz	Pass	AV	2.4398G	102.81	Inf	-Inf	3	Horizontal	360	1.50
2437MHz	Pass	AV	2.4854G	53.51	54.00	-0.49	3	Horizontal	360	1.50
2437MHz	Pass	PK	2.3894G	67.99	74.00	-6.01	3	Horizontal	360	1.50
2437MHz	Pass	PK	2.4354G	113.49	Inf	-Inf	3	Horizontal	360	1.50
2437MHz	Pass	PK	2.4862G	66.41	74.00	-7.59	3	Horizontal	360	1.50
2437MHz	Pass	AV	4.86848G	31.45	54.00	-22.55	3	Vertical	341	1.50
2437MHz	Pass	PK	4.8706G	44.36	74.00	-29.64	3	Vertical	341	1.50
2437MHz	Pass	AV	4.86508G	30.10	54.00	-23.90	3	Horizontal	22	1.75
2437MHz	Pass	PK	4.86952G	41.67	74.00	-32.33	3	Horizontal	22	1.75
2447MHz	Pass	AV	2.3894G	46.82	54.00	-7.18	3	Vertical	360	1.50
2447MHz	Pass	AV	2.4486G	105.26	Inf	-Inf	3	Vertical	360	1.50
2447MHz	Pass	AV	2.4835G	53.10	54.00	-0.90	3	Vertical	360	1.50
2447MHz	Pass	PK	2.3882G	60.45	74.00	-13.55	3	Vertical	360	1.50
2447MHz	Pass	PK	2.4486G	115.39	Inf	-Inf	3	Vertical	360	1.50
2447MHz	Pass	PK	2.4838G	67.21	74.00	-6.79	3	Vertical	360	1.50
2447MHz	Pass	AV	2.3898G	45.19	54.00	-8.81	3	Horizontal	360	1.21
2447MHz	Pass	AV	2.4454G	101.88	Inf	-Inf	3	Horizontal	360	1.21
2447MHz	Pass	AV	2.4846G	49.77	54.00	-4.23	3	Horizontal	360	1.21
2447MHz	Pass	PK	2.3842G	56.97	74.00	-17.03	3	Horizontal	360	1.21
2447MHz	Pass	PK	2.4446G	112.62	Inf	-Inf	3	Horizontal	360	1.21
2447MHz	Pass	PK	2.4838G	62.09	74.00	-11.91	3	Horizontal	360	1.21
2452MHz	Pass	AV	2.3888G	46.87	54.00	-7.13	3	Vertical	360	1.37
2452MHz	Pass	AV	2.4536G	104.60	Inf	-Inf	3	Vertical	360	1.37
2452MHz	Pass	AV	2.4835G	53.23	54.00	-0.77	3	Vertical	360	1.37
2452MHz	Pass	PK	2.3896G	58.34	74.00	-15.66	3	Vertical	360	1.37
2452MHz	Pass	PK	2.454G	114.97	Inf	-Inf	3	Vertical	360	1.37
2452MHz	Pass	PK	2.484G	67.55	74.00	-6.45	3	Vertical	360	1.37
2452MHz	Pass	AV	2.39G	46.35	54.00	-7.65	3	Horizontal	360	1.18
2452MHz	Pass	AV	2.4504G	101.06	Inf	-Inf	3	Horizontal	360	1.18
2452MHz	Pass	AV	2.4848G	52.29	54.00	-1.71	3	Horizontal	360	1.18
2452MHz	Pass	PK	2.39G	57.77	74.00	-16.23	3	Horizontal	360	1.18
2452MHz	Pass	PK	2.4548G	111.95	Inf	-Inf	3	Horizontal	360	1.18
2452MHz	Pass	PK	2.4852G	67.02	74.00	-6.98	3	Horizontal	360	1.18
2452MHz	Pass	AV	4.89928G	31.18	54.00	-22.82	3	Vertical	355	1.69
2452MHz	Pass	PK	4.90348G	42.65	74.00	-31.35	3	Vertical	355	1.69
2452MHz	Pass	AV	4.89904G	30.42	54.00	-23.58	3	Horizontal	292	2.16
2452MHz	Pass	PK	4.8988G	42.32	74.00	-31.68	3	Horizontal	292	2.16

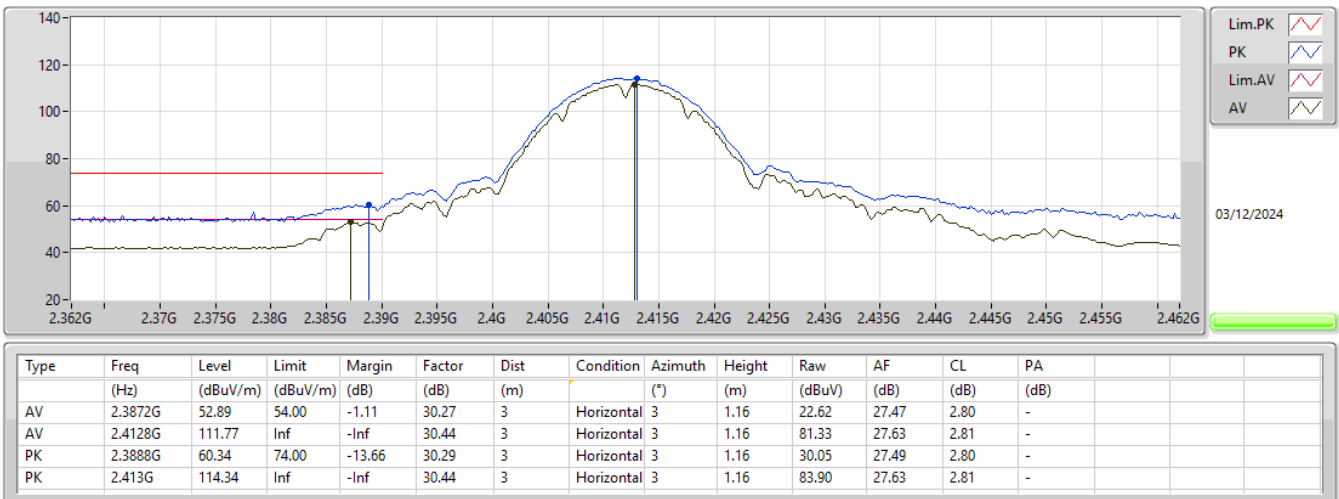
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2412MHz_TX



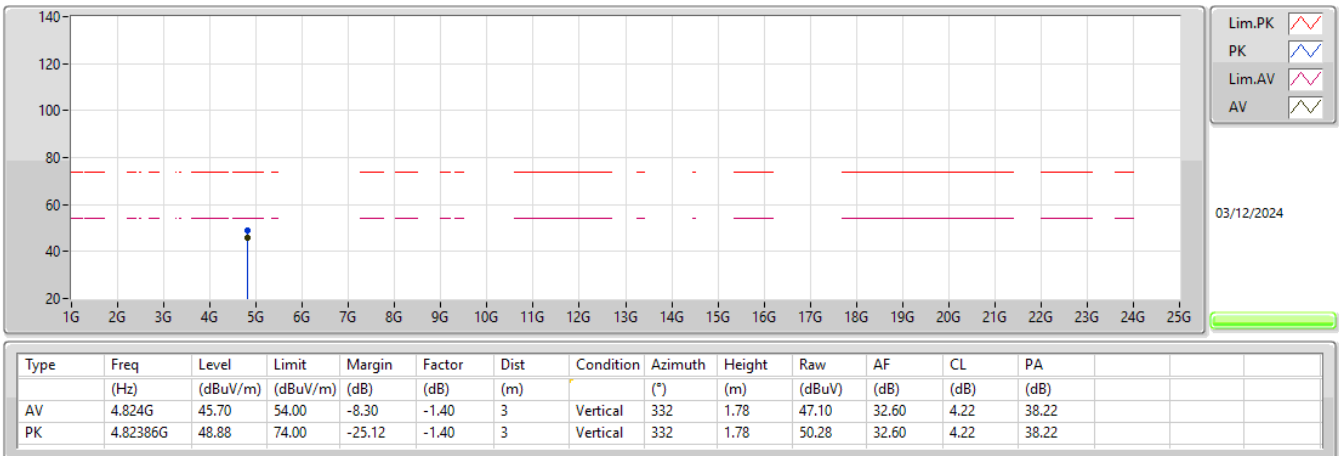
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2412MHz_TX



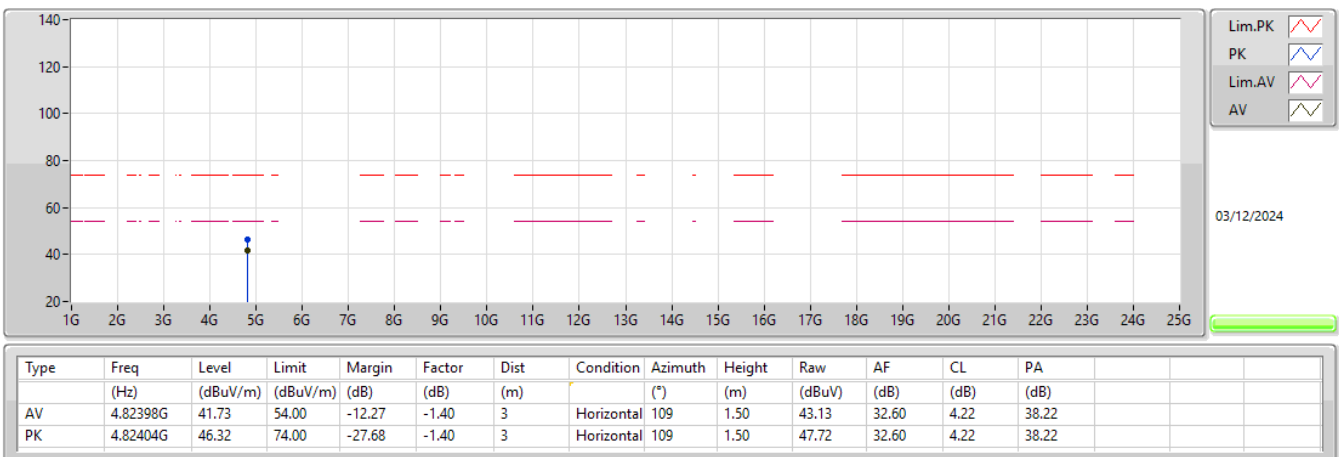
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX



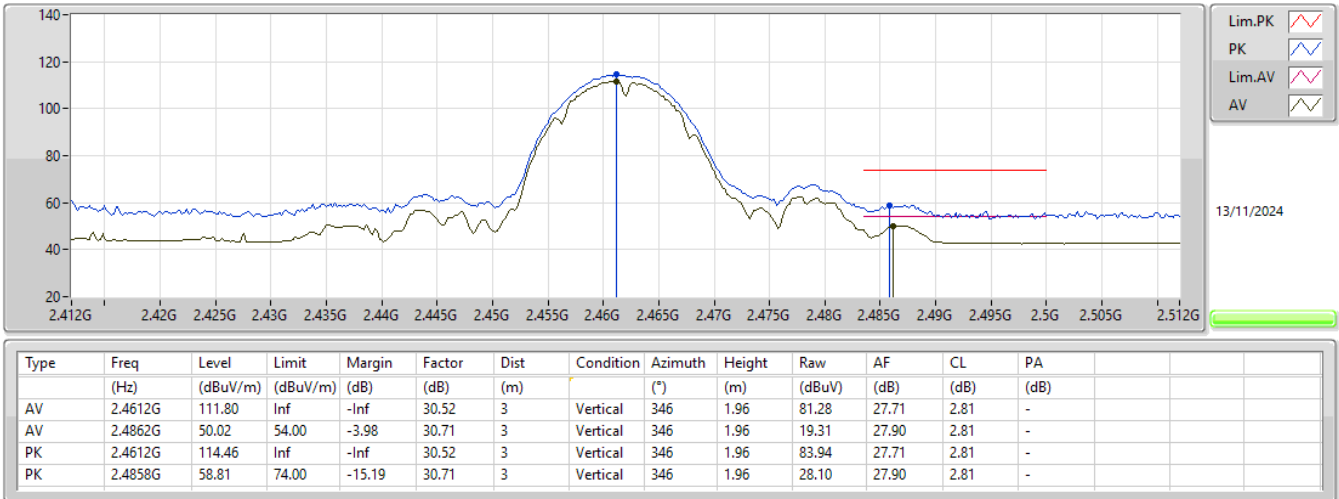
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2412MHz_TX



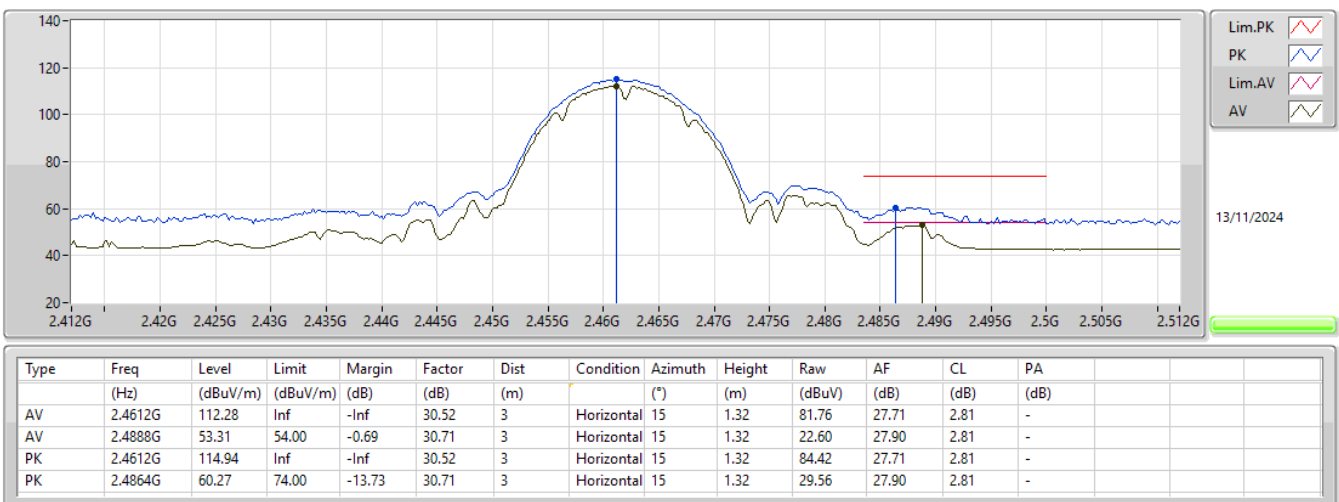
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2462MHz_TX



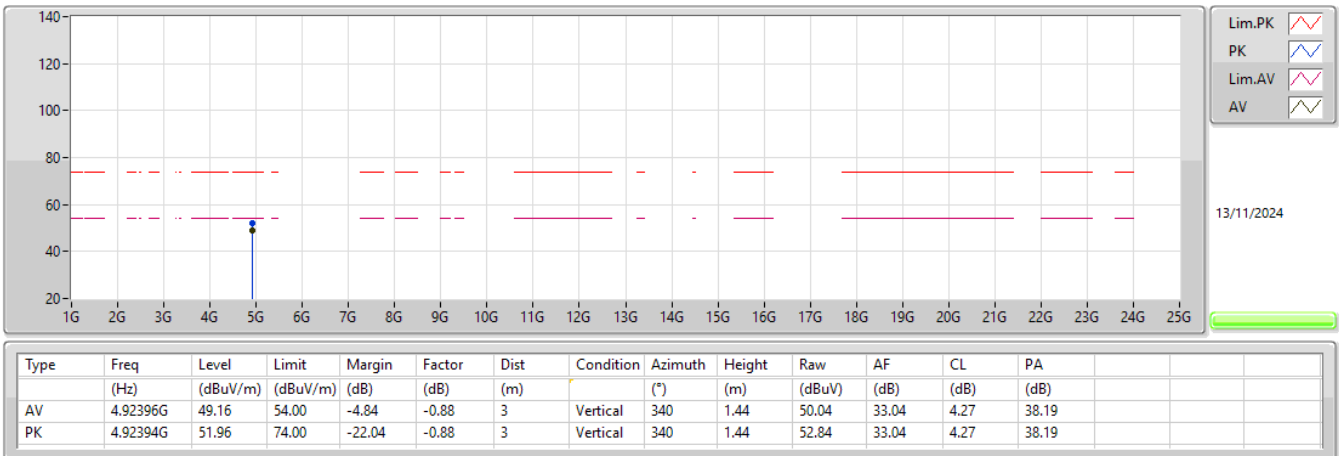
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2462MHz_TX



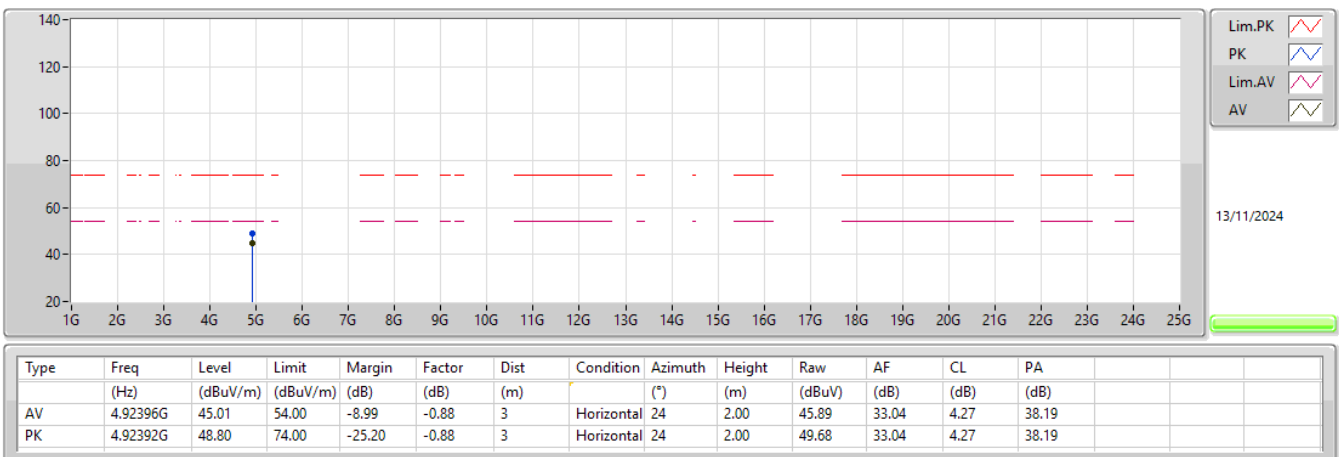
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2462MHz_TX



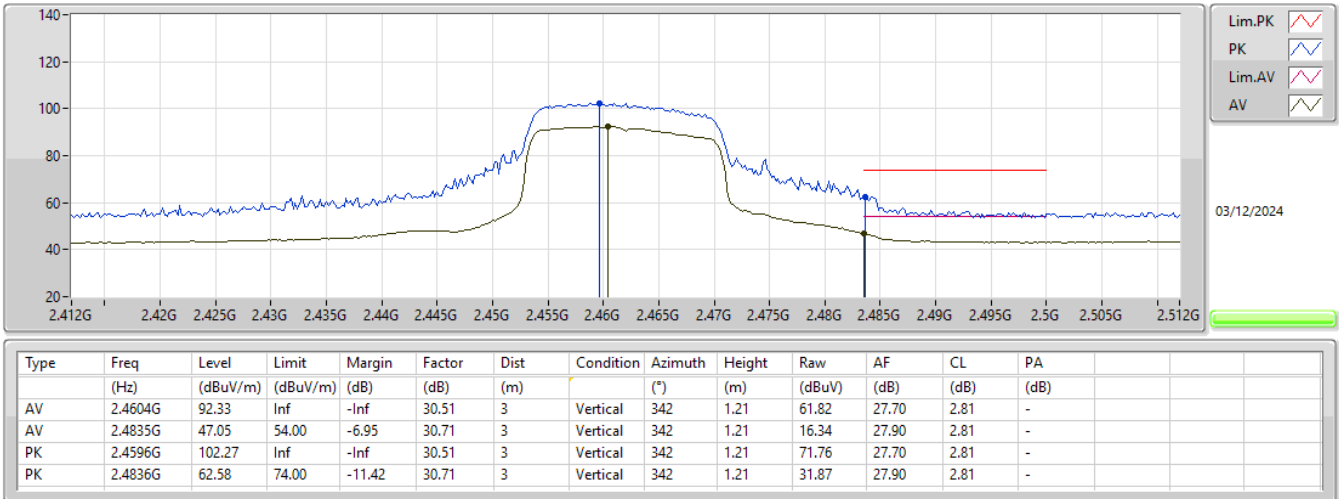
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2462MHz_TX



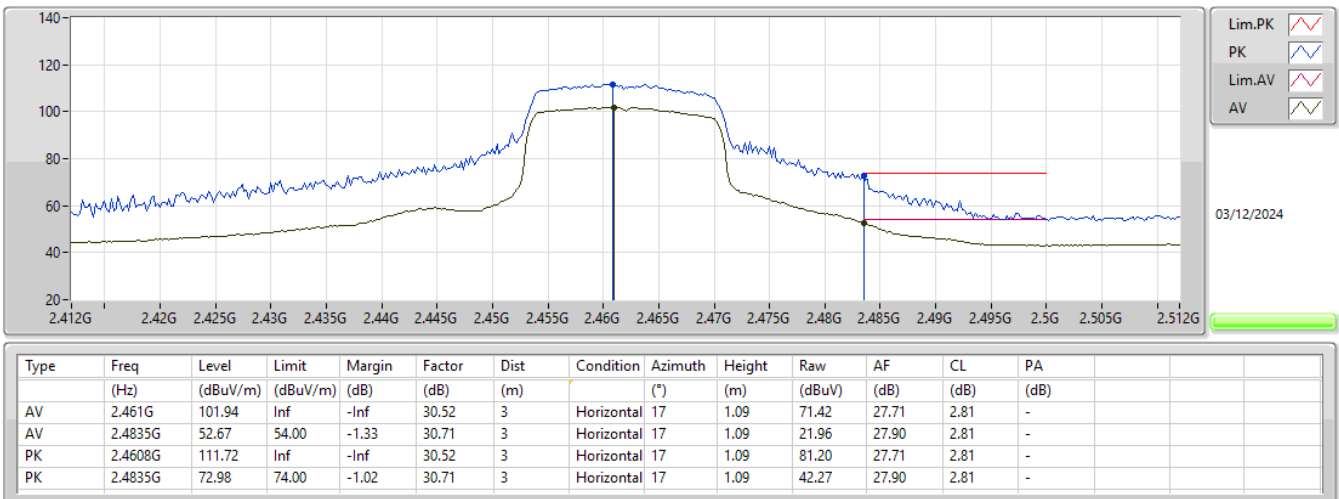
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



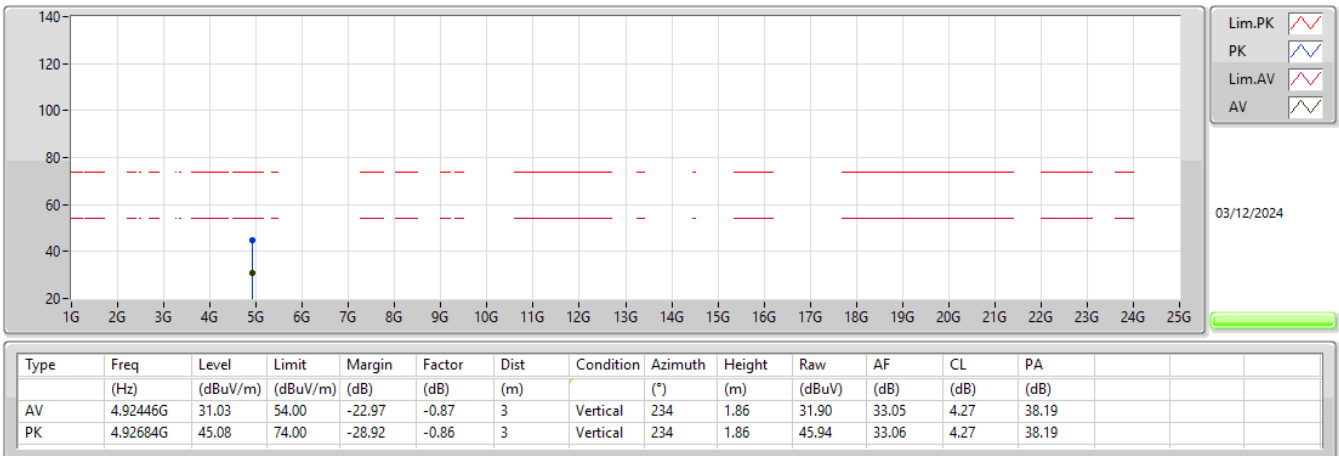
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2462MHz_TX



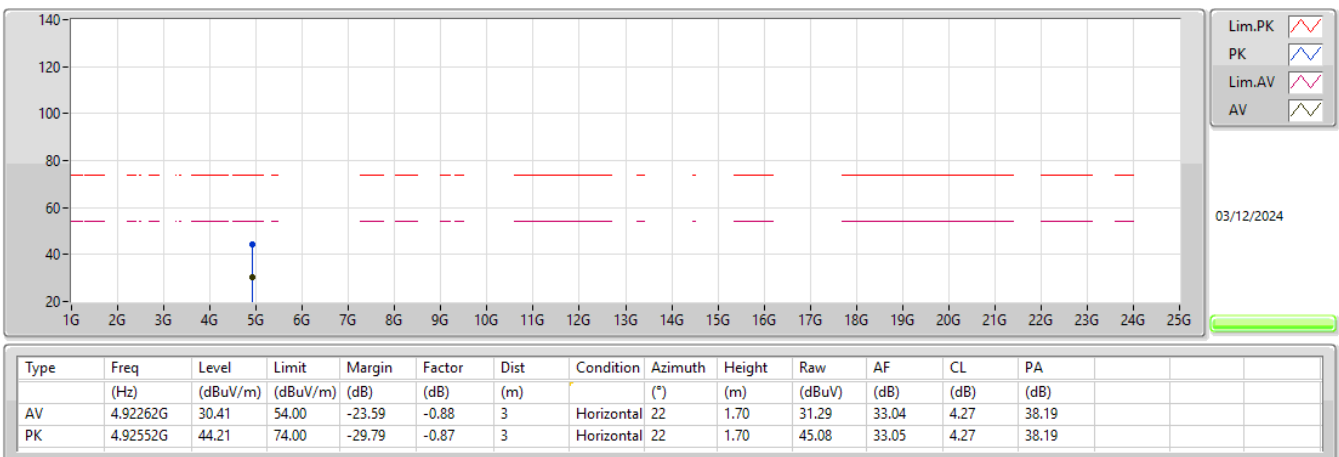
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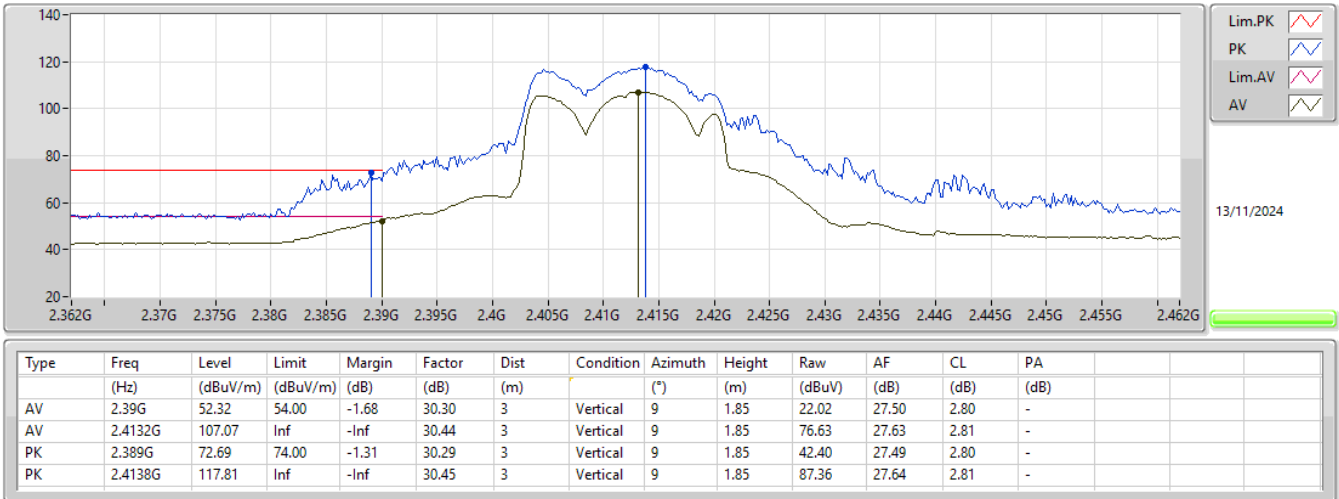
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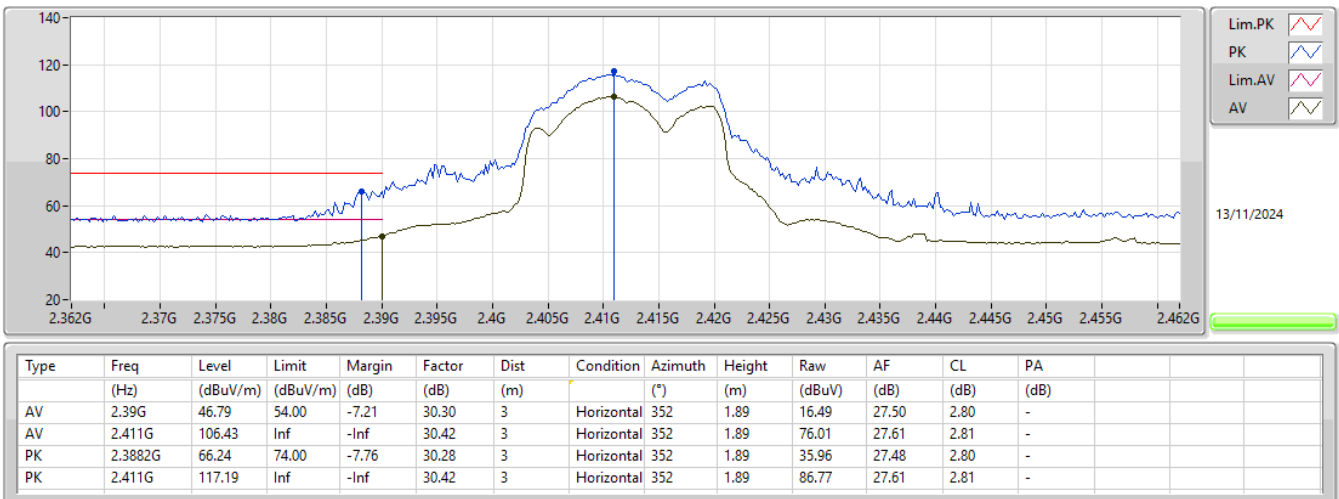
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2412MHz_TX



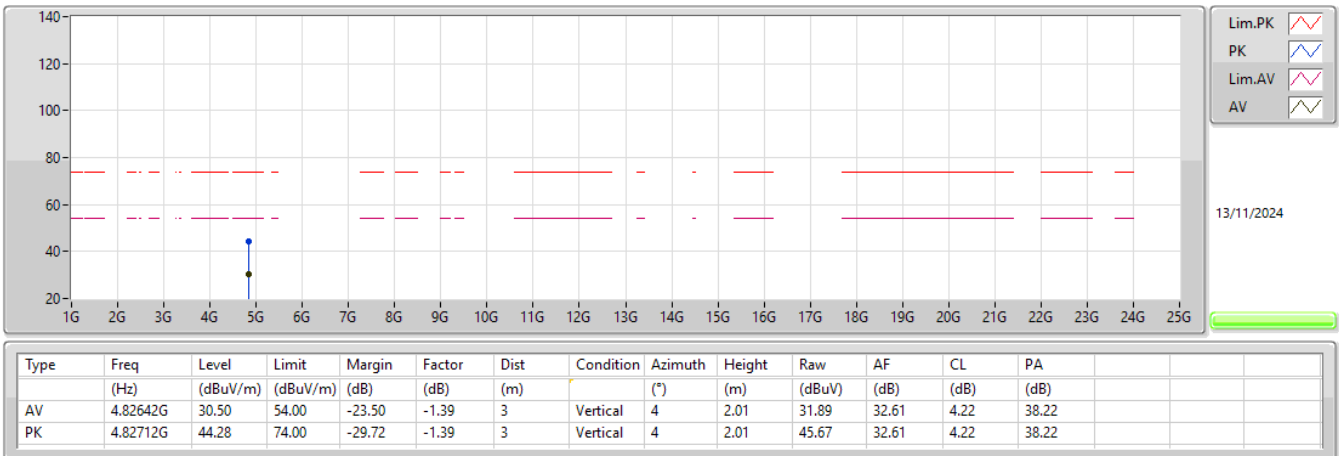
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2412MHz_TX



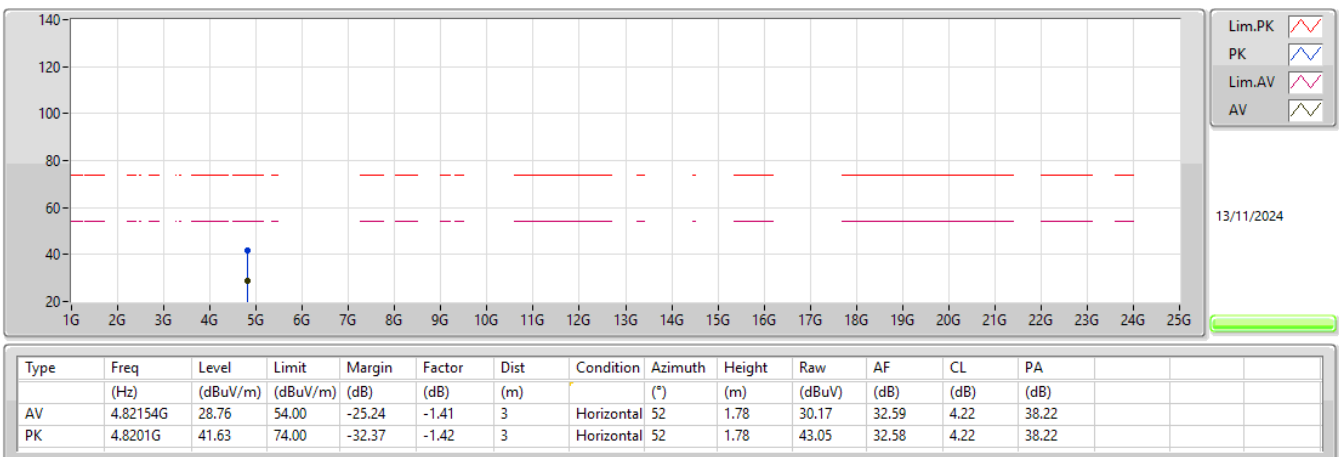
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2412MHz_TX



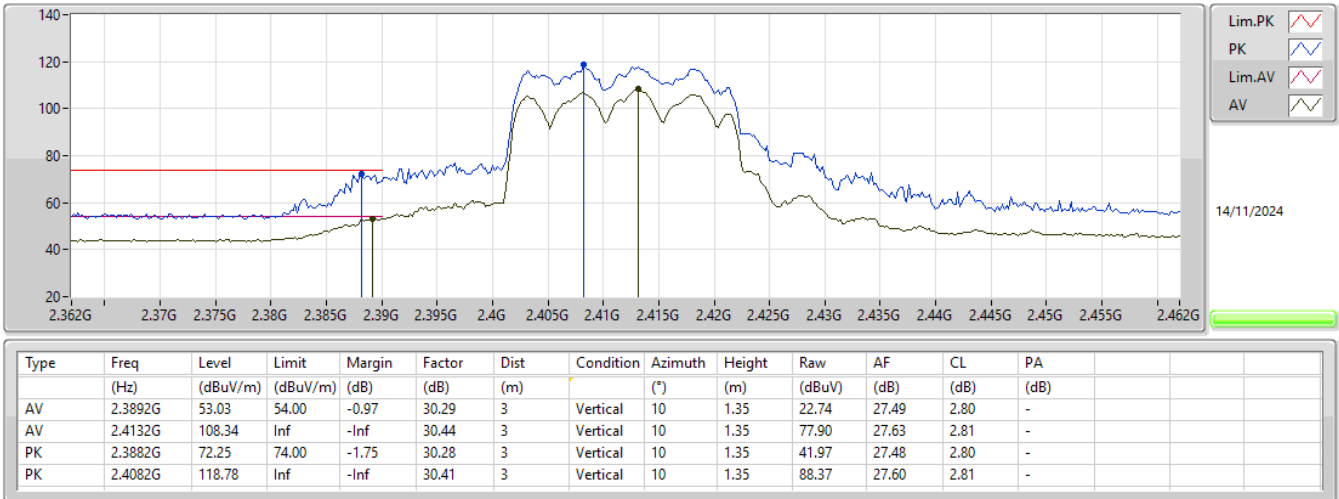
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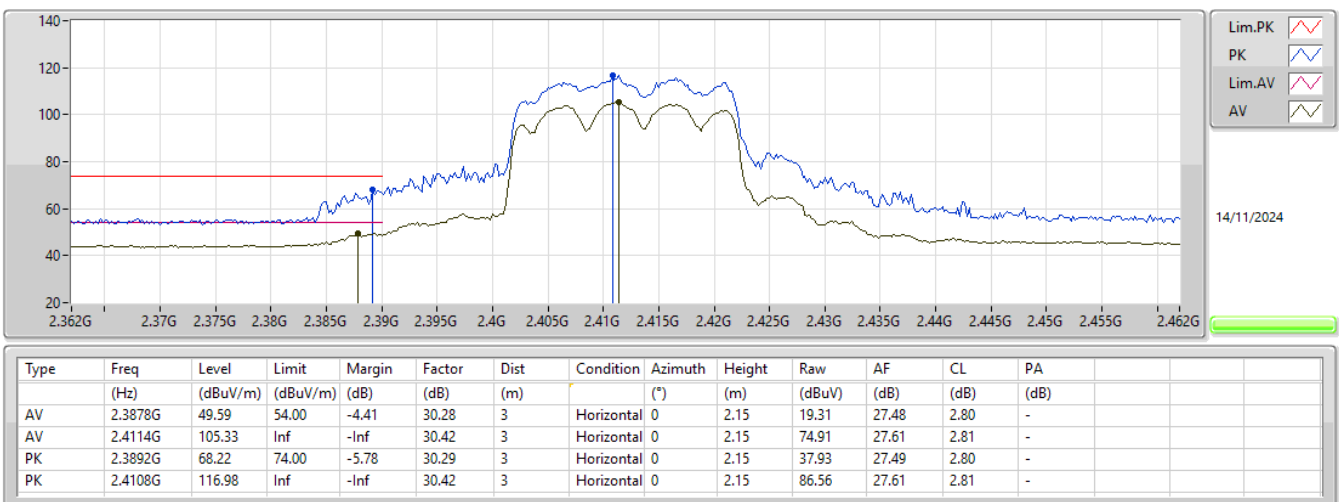
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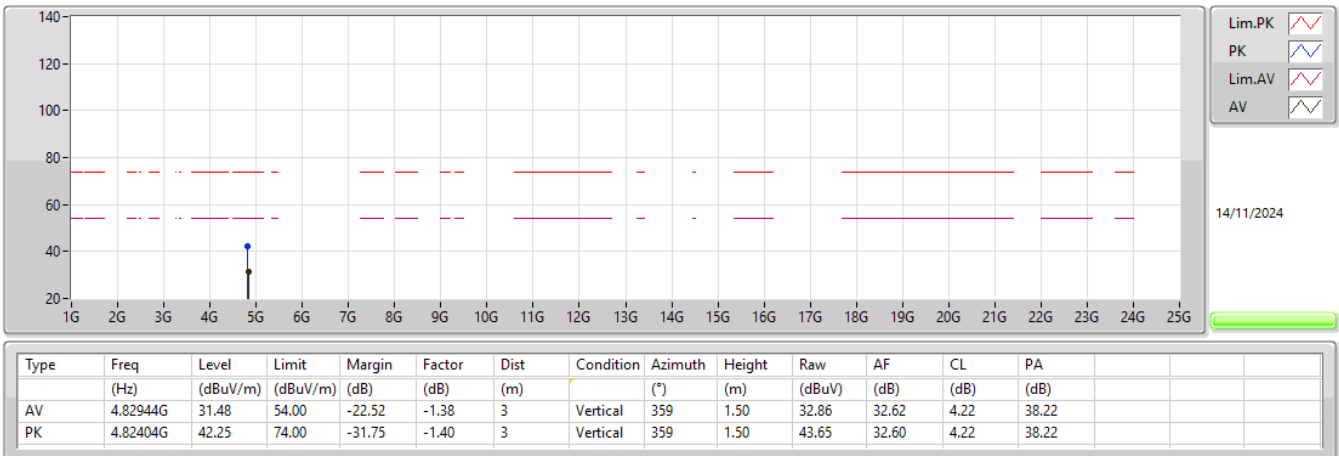
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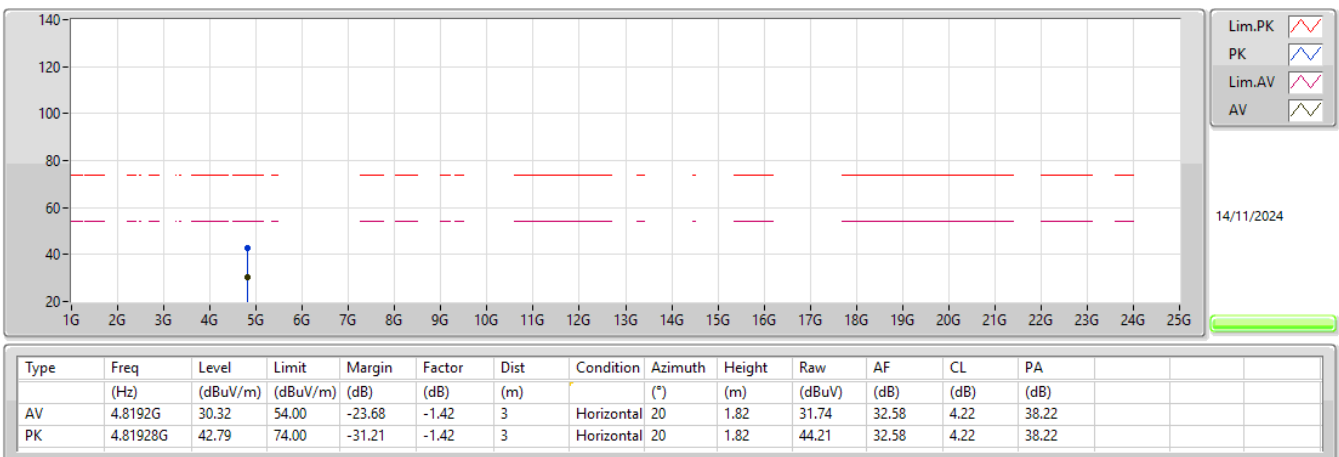
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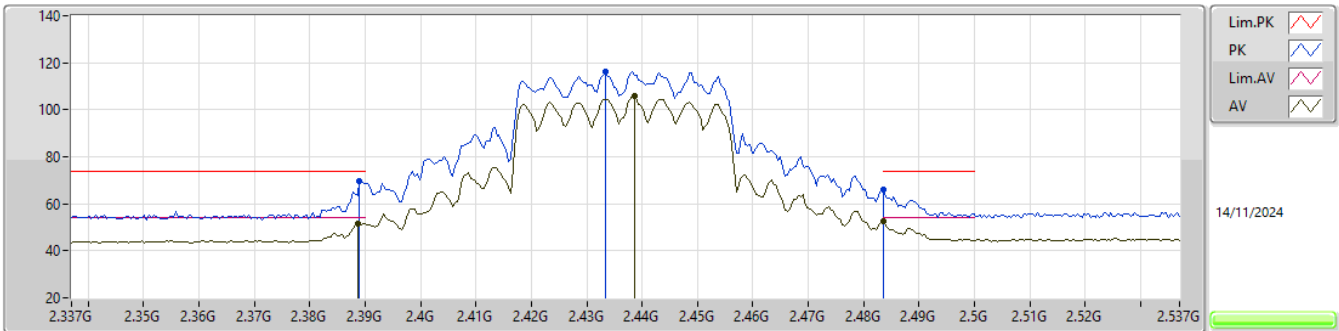
2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

2412MHz_TX



2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

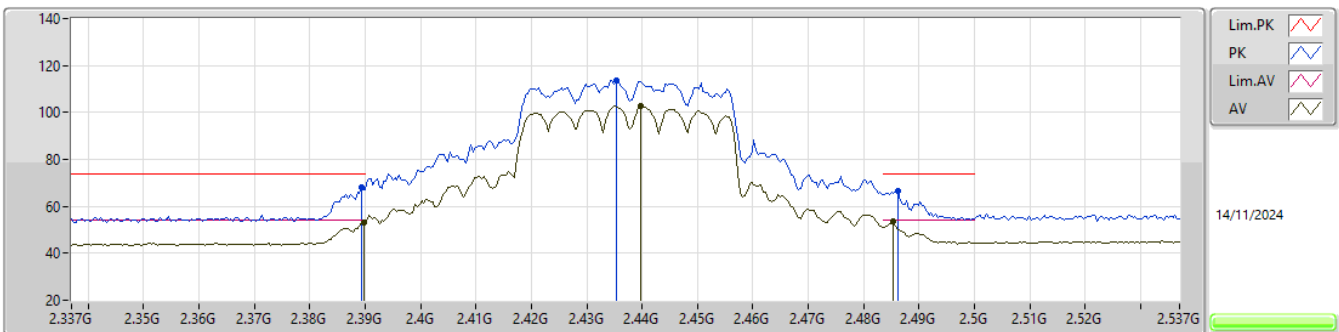
2437MHz_TX



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)
AV	2.3886G	51.68	54.00	-2.32	30.29	3	Vertical	360	1.29	21.39	27.49	2.80	-
AV	2.4386G	105.97	Inf	-Inf	30.51	3	Vertical	360	1.29	75.46	27.70	2.81	-
AV	2.4835G	52.55	54.00	-1.45	30.71	3	Vertical	360	1.29	21.84	27.90	2.81	-
PK	2.389G	69.46	74.00	-4.54	30.29	3	Vertical	360	1.29	39.17	27.49	2.80	-
PK	2.4334G	116.06	Inf	-Inf	30.51	3	Vertical	360	1.29	85.55	27.70	2.81	-
PK	2.4835G	66.07	74.00	-7.93	30.71	3	Vertical	360	1.29	35.36	27.90	2.81	-

2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

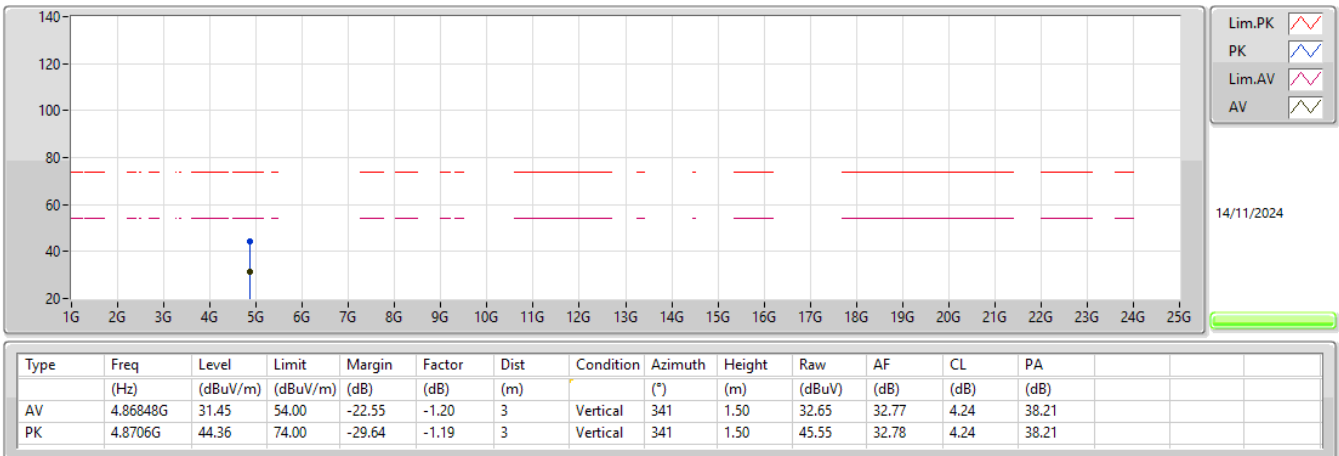
2437MHz_TX



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)
AV	2.3898G	53.13	54.00	-0.87	30.30	3	Horizontal	360	1.50	22.83	27.50	2.80	-
AV	2.4398G	102.81	Inf	-Inf	30.51	3	Horizontal	360	1.50	72.30	27.70	2.81	-
AV	2.4854G	53.51	54.00	-0.49	30.71	3	Horizontal	360	1.50	22.80	27.90	2.81	-
PK	2.3894G	67.99	74.00	-6.01	30.29	3	Horizontal	360	1.50	37.70	27.49	2.80	-
PK	2.4354G	113.49	Inf	-Inf	30.51	3	Horizontal	360	1.50	82.98	27.70	2.81	-
PK	2.4862G	66.41	74.00	-7.59	30.71	3	Horizontal	360	1.50	35.70	27.90	2.81	-

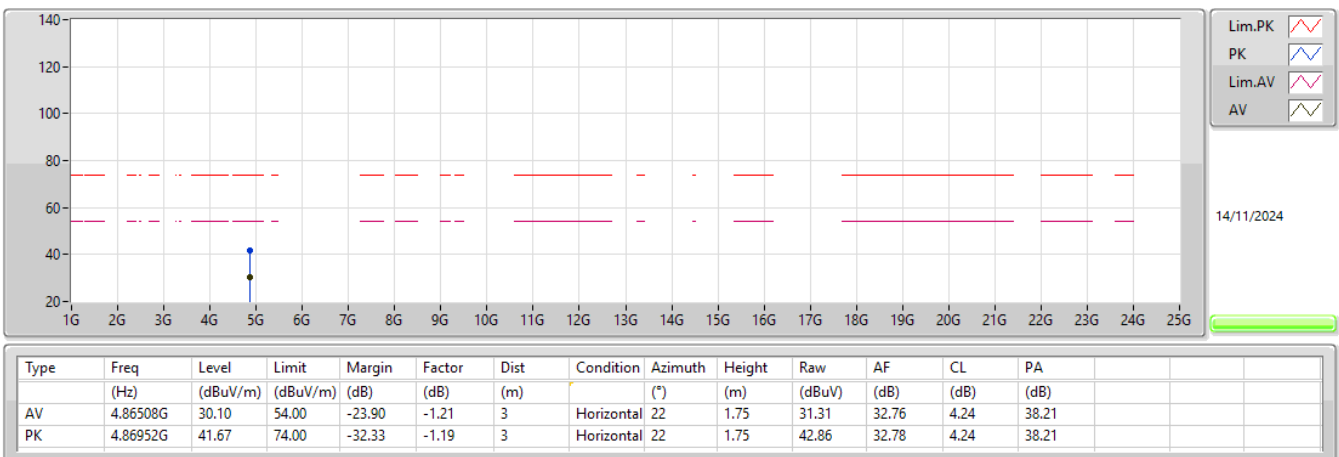
2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

2437MHz_TX



2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

2437MHz_TX





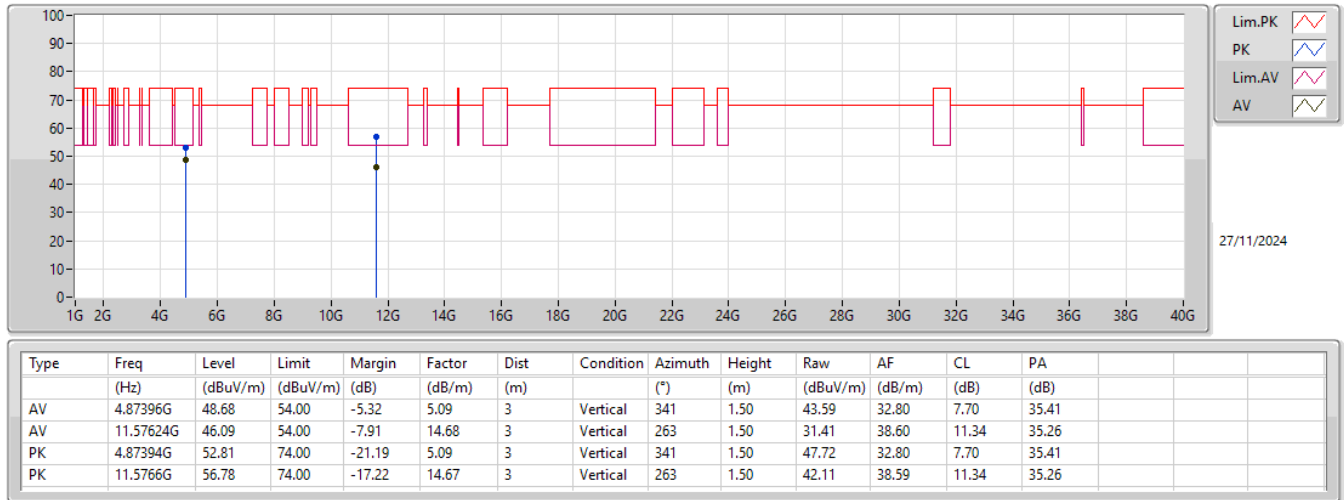
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.87399G	49.95	54.00	-4.05	Horizontal

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	4.87396G	48.68	54.00	-5.32	3	Vertical	341	1.50
Mode 1	Pass	AV	11.57624G	46.09	54.00	-7.91	3	Vertical	263	1.50
Mode 1	Pass	PK	4.87394G	52.81	74.00	-21.19	3	Vertical	341	1.50
Mode 1	Pass	PK	11.5766G	56.78	74.00	-17.22	3	Vertical	263	1.50
Mode 1	Pass	AV	4.87399G	49.95	54.00	-4.05	3	Horizontal	334	1.47
Mode 1	Pass	AV	11.57872G	46.10	54.00	-7.90	3	Horizontal	302	1.91
Mode 1	Pass	PK	4.87398G	53.71	74.00	-20.29	3	Horizontal	334	1.47
Mode 1	Pass	PK	11.56632G	57.02	74.00	-16.98	3	Horizontal	302	1.91

Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 1

