



RADIO TEST REPORT

FCC ID : VW3FAST5380V2
Equipment : Copper Wireless Router
Brand Name : SAGEMCOM
Model Name : FAST 5380
Applicant : SAGEMCOM BROADBAND SAS
250 Route de l'Empereur - 92848 RUEIL
MALMAISON CEDEX- FRANCE
Manufacturer : SAGEMCOM BROADBAND SAS
250 Route de l'Empereur - 92848 RUEIL
MALMAISON CEDEX- FRANCE
Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 19, 2021, and testing was started from Feb. 11, 2022 and completed on Mar. 11, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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



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History of this test report

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

Page Number : 3 of 32
Issued Date : Mar. 15, 2022
Report Version : 01



Summary of Test Result

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

Declaration of Conformity:

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

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Viola Huang



1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	3
2.4-2.4835GHz	802.11g	20	3
2.4-2.4835GHz	802.11n HT20	20	3
2.4-2.4835GHz	802.11n HT20-BF	20	3
2.4-2.4835GHz	VHT20	20	3
2.4-2.4835GHz	VHT20-BF	20	3
2.4-2.4835GHz	802.11ax HEW20	20	3
2.4-2.4835GHz	802.11ax HEW20-BF	20	3
2.4-2.4835GHz	802.11n HT40	40	3
2.4-2.4835GHz	802.11n HT40-BF	40	3
2.4-2.4835GHz	VHT40	40	3
2.4-2.4835GHz	VHT40-BF	40	3
2.4-2.4835GHz	802.11ax HEW40	40	3
2.4-2.4835GHz	802.11ax HEW40-BF	40	3

Note:

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

1.1.2 Antenna Information

Ant.	2.4GHz	5GHz	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	2	Galtronics	02102140-07252C1 DB1	PCB Antenna	I-PEX	Note 1
2	2	3	Galtronics	02102140-07252C2 DB2	PCB Antenna	I-PEX	
3	3	4	Galtronics	02102140-07252c3 DB3	PCB Antenna	I-PEX	
4	-	1	Galtronics	02102142-07252CX 5G	PCB Antenna	I-PEX	

Note 1:

Ant.	Gain (dBi)				
	2.GHz	5GHz UNII 1	5GHz UNII 2A	5GHz UNII 2C	5GHz UNII 3
1	4.72	3.53	3.91	2.86	2.92
2	4.89	3.61	3.75	2.69	2.74
3	3.98	4.08	4.34	2.7	3.34
4	-	4.84	4.88	4.09	4.68

Ant.	Directional Gain (dBi)													
	2.GHz		5GHz UNII 1			5GHz UNII 2A			5GHz UNII 2C			5GHz UNII 3		
	3T1S	3T3S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S
1	5.05	1.05	5.06	2.06	-0.33	5.88	2.88	0.21	4.5	1.5	-0.76	5.09	2.09	-0.11
2														
3														
4	-	-												

Note 2: The EUT has four antennas for 2.4GHz/5GHz.

Note 3: The above information was declared by manufacturer.

Note 4: Maximum Directional Gain following KDB662911 D03.

The antenna report is provided in the operational description for this application.

For 2.4GHz:

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

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

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

For 5GHz UNII 1~3:

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

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.949	0.23	12.425m	100
802.11g	0.954	0.2	2.069m	1k
802.11ax HEW20	0.978	0.1	1.489m	1k
802.11ax HEW40	0.961	0.17	781.25u	3k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/VHT/11ax in 2.4GHz and 11n/11ac/11ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	Mtool V3.2.1.3			

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Owen Hsu	21.5~22.3 / 60~64	Feb. 17, 2022 ~ Feb. 18, 2022
Radiated below 1GHz & Radiated above 1GHz (For co-location)	03CH03-CB	KJ Chang	23.5~24.6 / 55~59	Feb. 11, 2022 ~ Mar. 11, 2022
Radiated above 1GHz (For other test modes)	03CH04-CB	KJ Chang	23.7~24.6 / 55~58	Feb. 11, 2022 ~ Mar. 11, 2022
AC Conduction	CO01-CB	Peter Wu	18~19 / 51~53	Feb. 21, 2022

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For non beamforming mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_3TX	-
2412MHz	98
2437MHz	99
2462MHz	98
802.11g_Nss1,(6Mbps)_3TX	-
2412MHz	75
2417MHz	81
2437MHz	98
2457MHz	85
2462MHz	73
802.11ax HEW20_Nss1,(MCS0)_3TX	-
2412MHz	70
2417MHz	78
2437MHz	97
2457MHz	80
2462MHz	71
802.11ax HEW40_Nss1,(MCS0)_3TX	-
2422MHz	71
2437MHz	76
2452MHz	66

For beamforming mode

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	-
2412MHz	70
2417MHz	78
2437MHz	97
2457MHz	80
2462MHz	71
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	-
2422MHz	71
2437MHz	76
2452MHz	66

Note:

- ♦ Evaluated HEW20/HEW40 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40
- ♦ The EUT supports 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.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT + Adapter 1 + ADSL RJ-11_Cable 1 + ADSL
2	EUT + Adapter 1 + ADSL RJ-11_Cable 2 + ADSL
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3~4 will follow this same test mode.	
3	EUT + Adapter 2 + ADSL RJ-11_Cable 2 + ADSL
4	EUT + Adapter 3 + ADSL RJ-11_Cable 2 + ADSL
Mode 3 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5 will follow this same test mode.	
5	EUT + Adapter 2 + VDSL
For operating mode 3 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
	For 2.4GHz The EUT was performed at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration. For 5GHz The EUT was performed at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at X axis. So the measurement will follow this same test configuration.
1	EUT in Y axis_2.4GHz + adapter 1
2	EUT in Y axis_2.4GHz + adapter 2
3	EUT in Y axis_2.4GHz + adapter 3
Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT in X axis_5GHz + adapter 1
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	The EUT was performed at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at X axis. So the measurement will follow this same test configuration.
1	EUT in X axis_WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA160328-02 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1	SAGEMCOM	ADS-42FKJ-12 12042EPCU-L	INPUT: 100-120V~50/60Hz, Max.1.2A OUTPUT: 12V, 3.5A
Adapter 2	SAGEMCOM	MSG-V3500AR120-042A0-US	Input: 100-120V~50/60Hz, 1.2A Max. Output: 12V, 3.5A
Adapter 3	SAGEMCOM	NBS42E120350VU	INPUT: 100-120V~50/60Hz, 1.0A OUTPUT: 12.0V, 3.5A
Others			
RJ-11 cable*1(two by one): Non-Shielded, 2m			
ADSL RJ-11 cable*1(two by one): Non-Shielded, 2m			
RJ-45 cable*1: Shielded, 1.8m			



2.5 Support Equipment

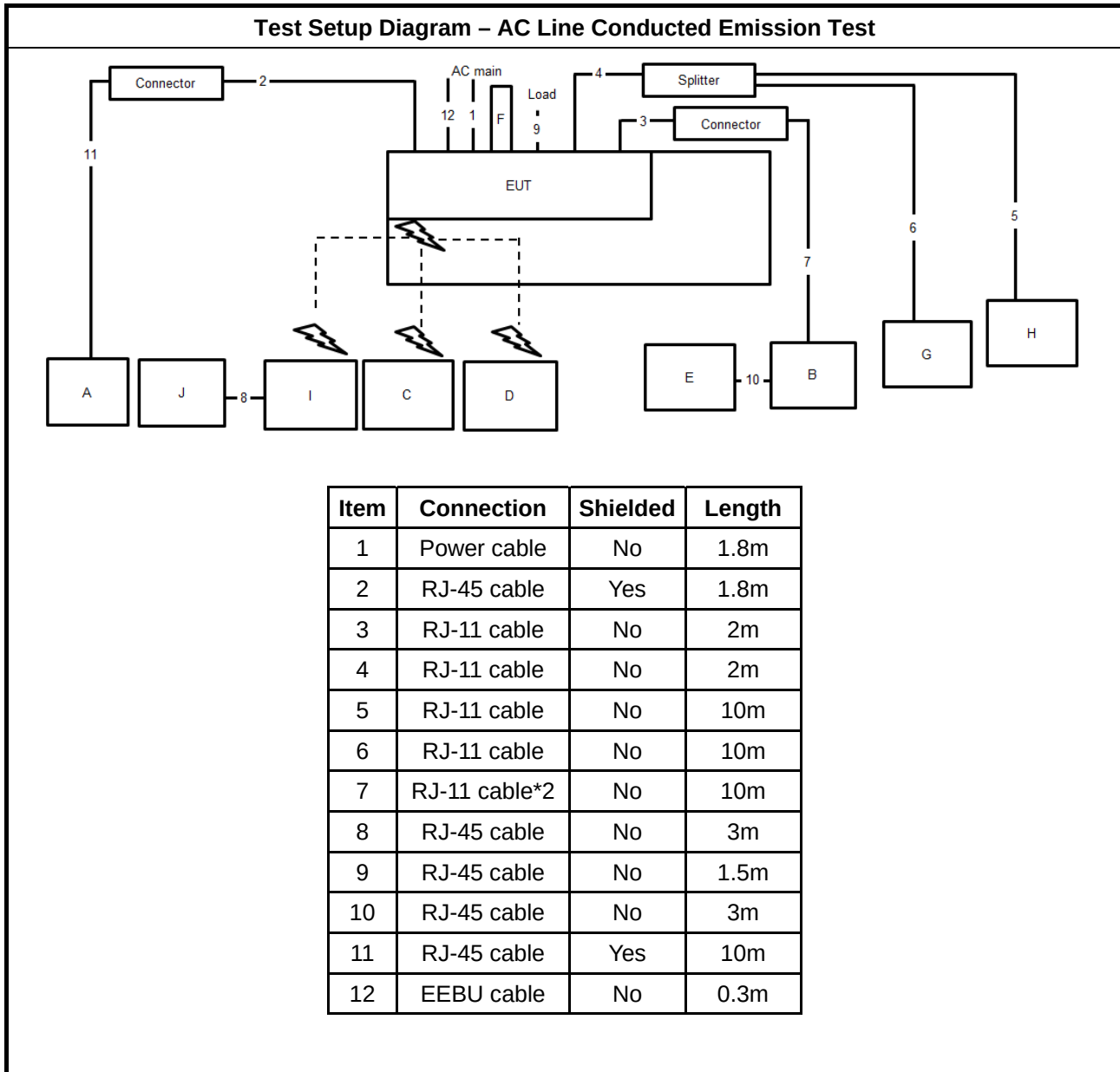
For AC Conduction:

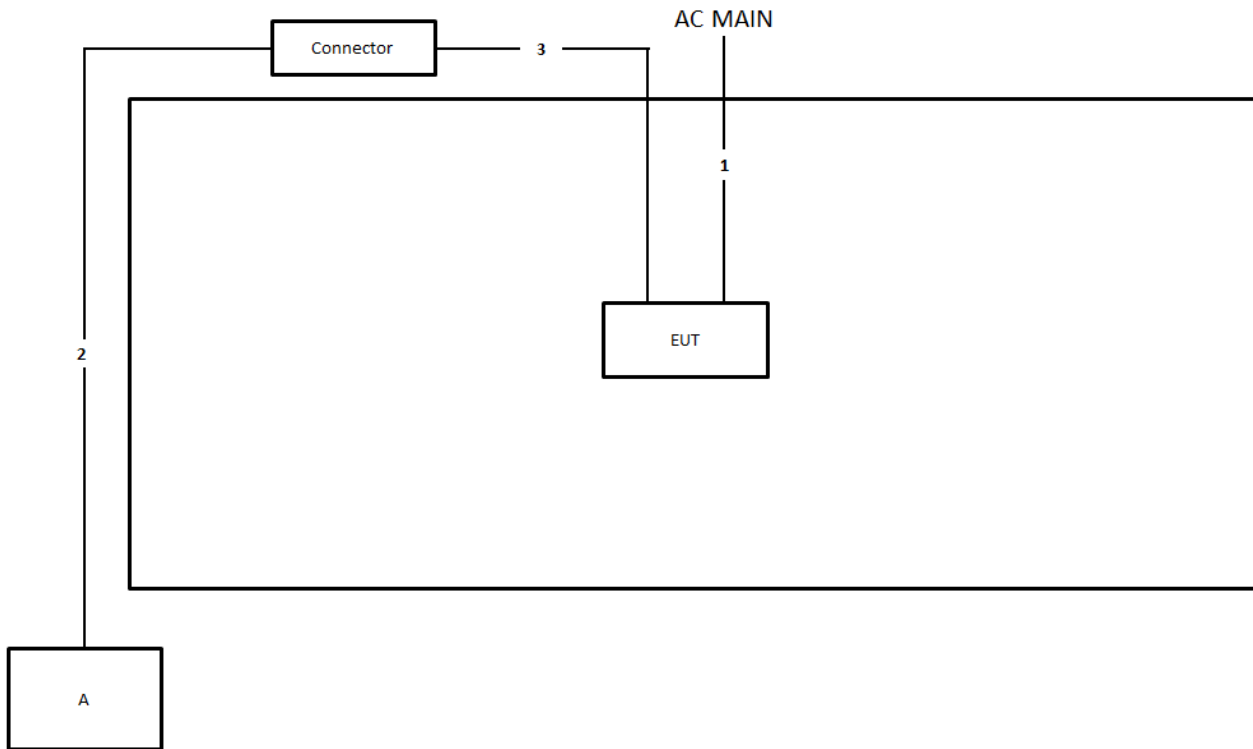
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	CO	ZyXEL	VES1724-56	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	CO NB	DELL	E6430	N/A
F	Flash disk3.0	Transcend	JetFlash-700	N/A
G	Phone1	SAMPO	HT-B 907WL	N/A
H	Phone2	SAMPO	HT-B 907WL	N/A
I	Device	Sagemcom	F5380	N/A
J	Device NB	DELL	E6430	N/A

For Radiated and RF Conducted:

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

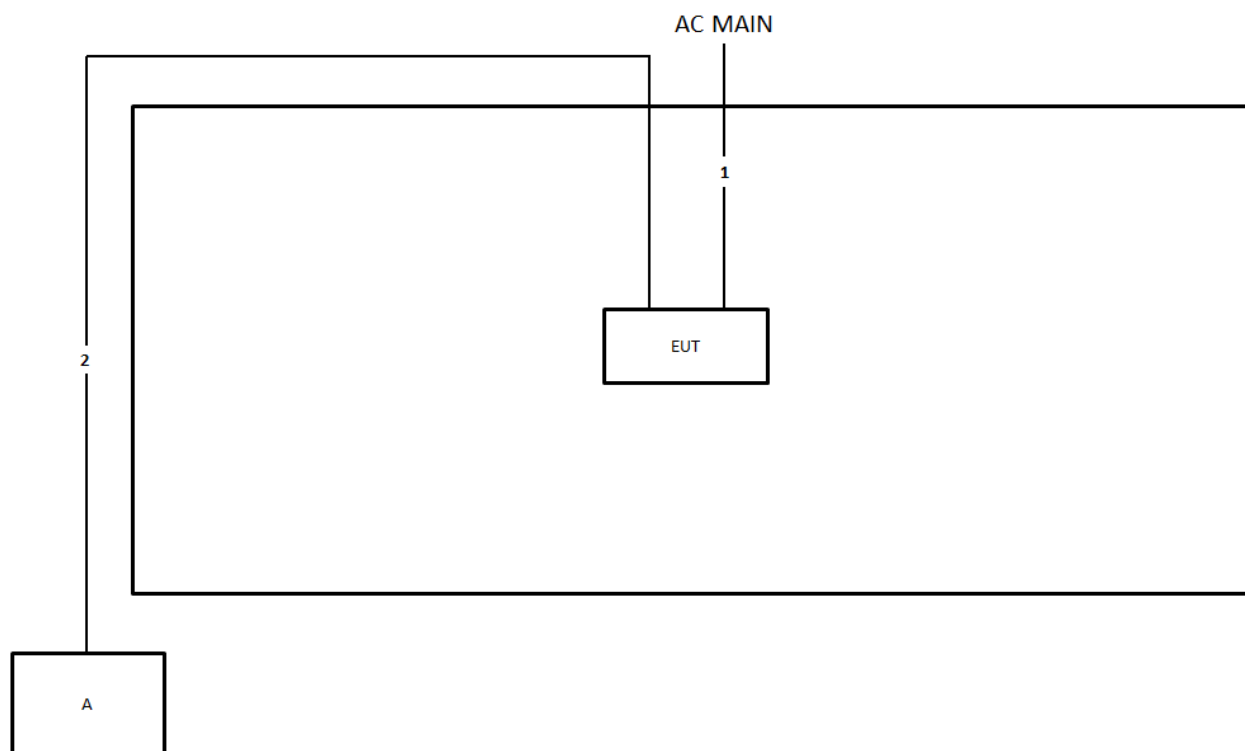
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


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

Test Setup Diagram - Radiated Test > 1GHz



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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

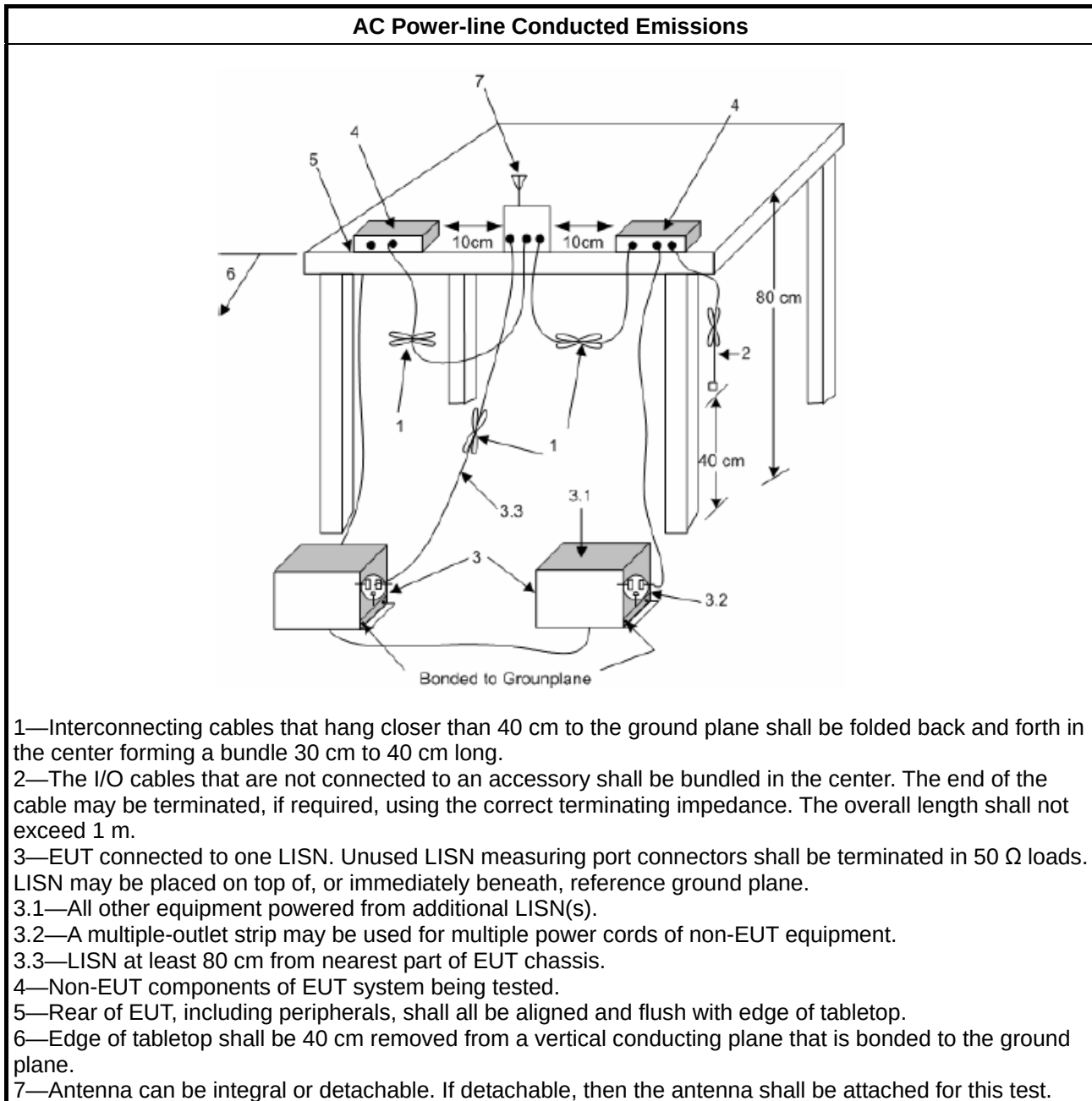
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

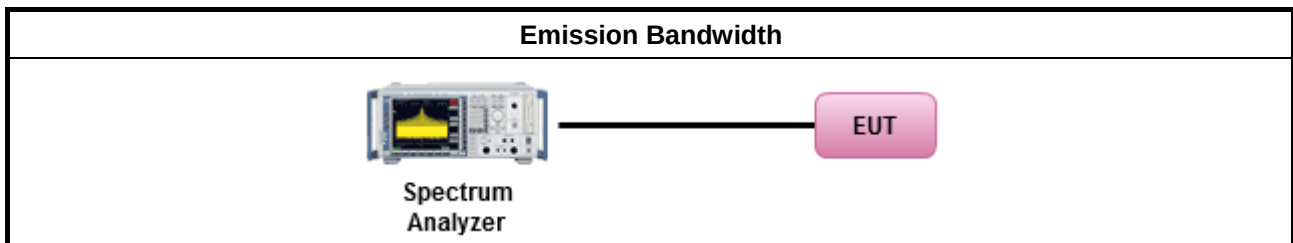
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

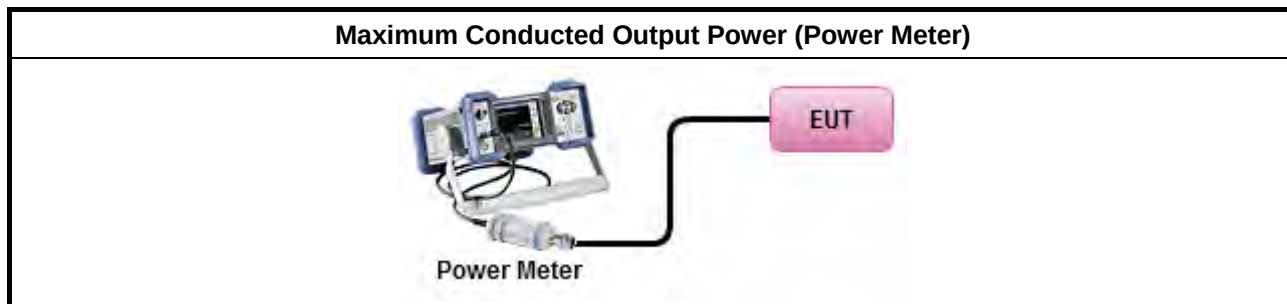
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

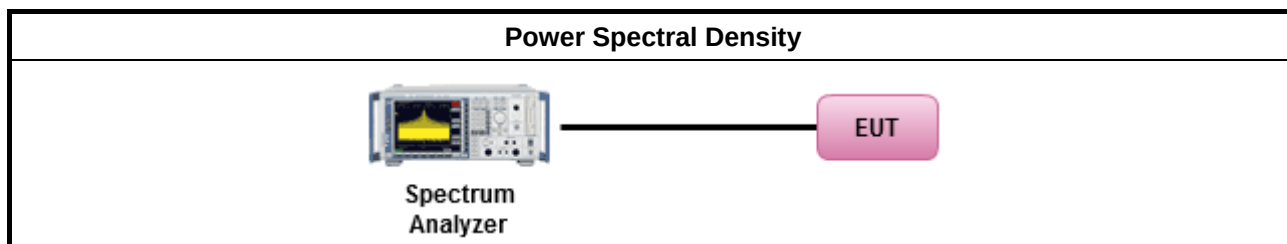
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

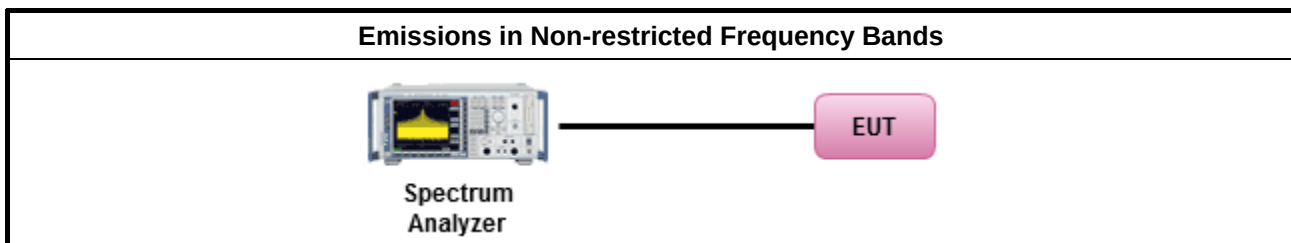
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

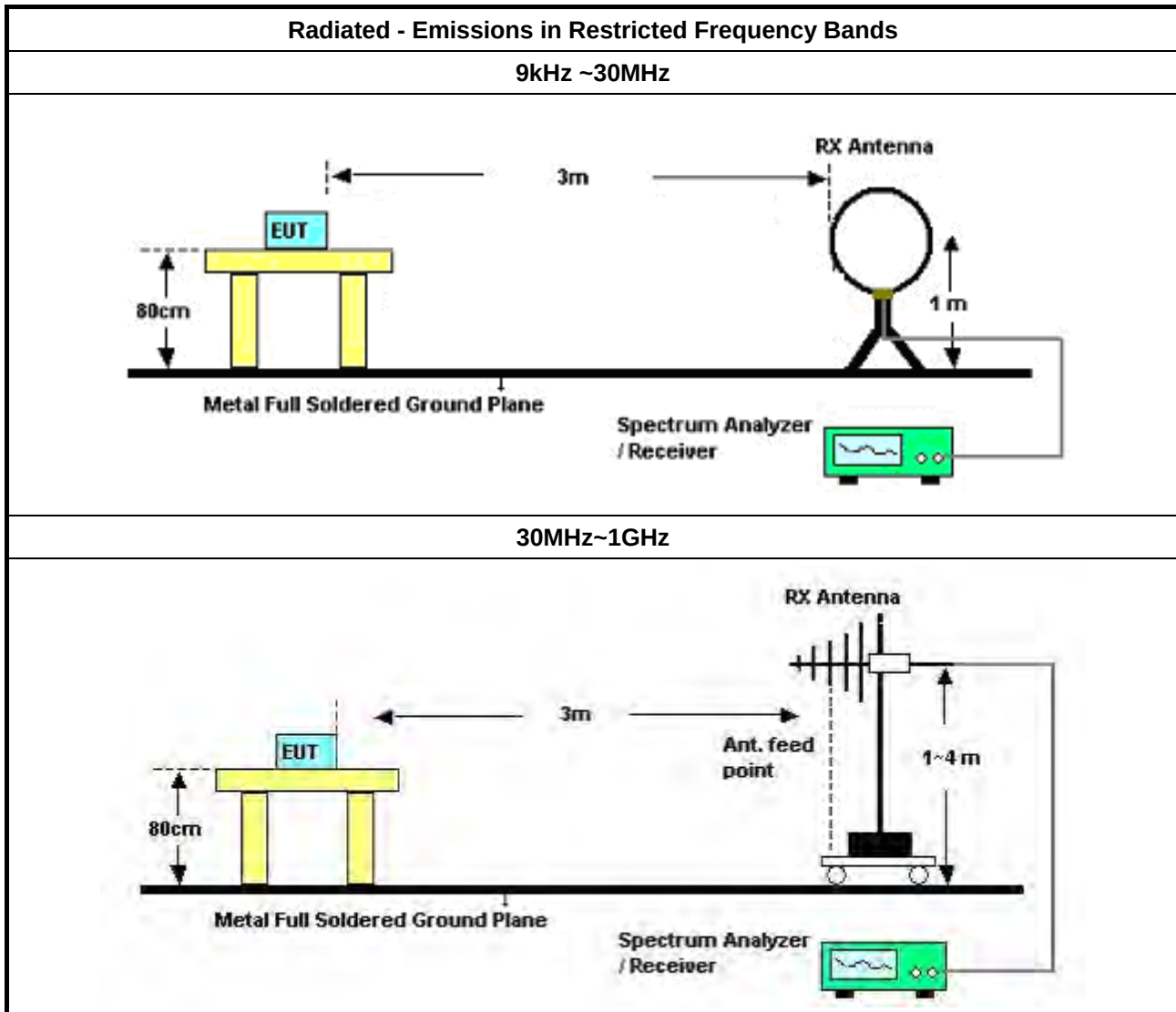
Refer a test equipment and calibration data table in this test report.

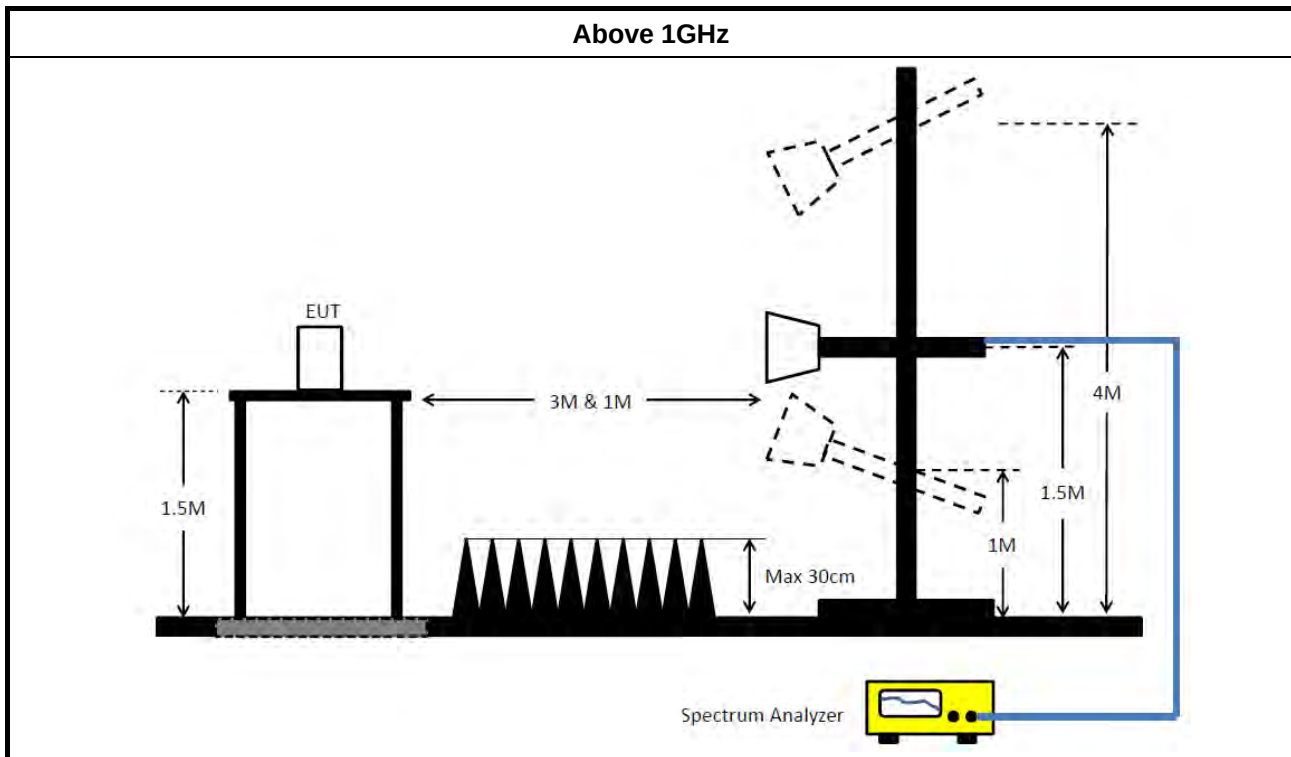


3.6.3 Test Procedures

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

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz~100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 26, 2022	Jan. 25, 2023	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 06, 2021	May 05, 2022	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 22, 2021	Feb. 21, 2022	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 21, 2022	Feb. 20, 2023	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 21, 2022	Jan. 20, 2023	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 10, 2022	Jan. 09, 2023	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 04, 2021	Jun. 03, 2022	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 25, 2021	Feb. 24, 2022	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH04-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz~26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Feb. 19, 2021	Feb. 18, 2022	Radiation (03CH04-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 15, 2021	Apr. 14, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 21, 2021	May 20, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

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



Conducted Emissions at Powerline

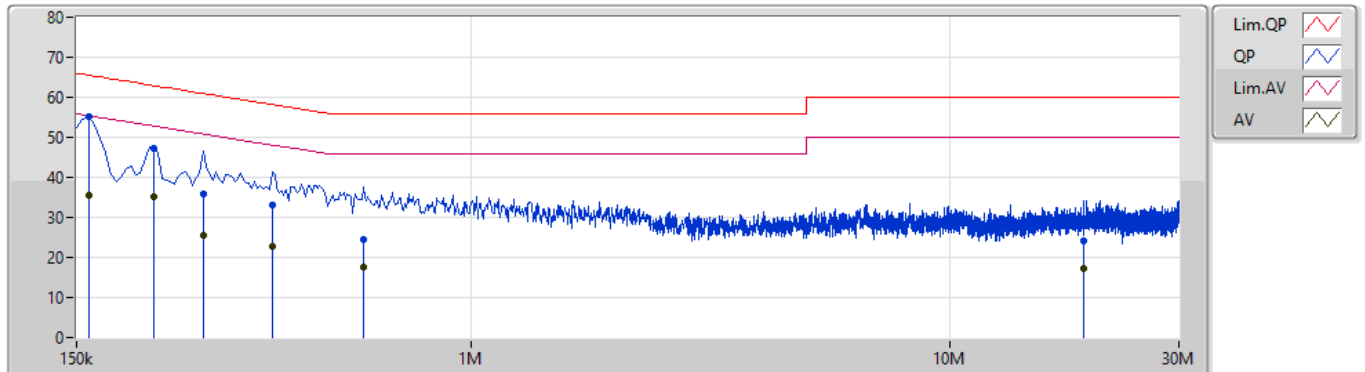
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	QP	159k	55.07	65.52	-10.45	Line

Mode 3

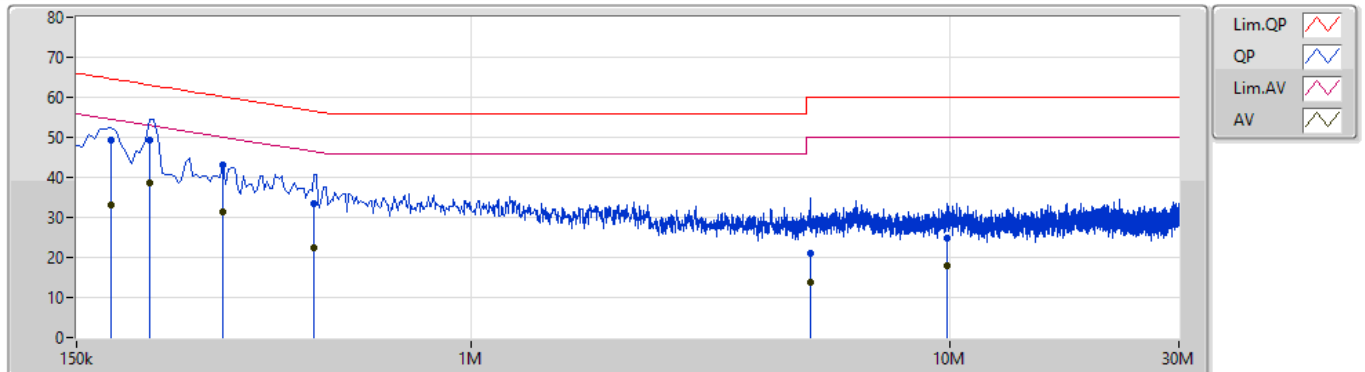
21/02/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	159k	55.07	65.52	-10.45	10.23	Line	"Worst"	44.84	0.04	0.04	10.15			
AV	159k	35.54	55.52	-19.98	10.23	Line	-	25.31	0.04	0.04	10.15			
QP	217.5k	47.37	62.92	-15.55	10.23	Line	-	37.14	0.04	0.04	10.15			
AV	217.5k	35.08	52.92	-17.84	10.23	Line	-	24.85	0.04	0.04	10.15			
QP	276k	35.86	60.93	-25.07	10.22	Line	-	25.64	0.04	0.04	10.14			
AV	276k	25.52	50.93	-25.41	10.22	Line	-	15.30	0.04	0.04	10.14			
QP	384k	33.07	58.20	-25.13	10.19	Line	-	22.88	0.04	0.04	10.11			
AV	384k	22.75	48.20	-25.45	10.19	Line	-	12.56	0.04	0.04	10.11			
QP	595.5k	24.65	56.00	-31.35	10.20	Line	-	14.45	0.05	0.04	10.11			
AV	595.5k	17.49	46.00	-28.51	10.20	Line	-	7.29	0.05	0.04	10.11			
QP	18.933M	24.08	60.00	-35.92	10.71	Line	-	13.37	0.31	0.21	10.19			
AV	18.933M	17.31	50.00	-32.69	10.71	Line	-	6.60	0.31	0.21	10.19			

Mode 3

21/02/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	177k	49.14	64.62	-15.48	10.23	Neutral	-	38.91	0.03	0.04	10.16			
AV	177k	33.13	54.62	-21.49	10.23	Neutral	-	22.90	0.03	0.04	10.16			
QP	213k	49.26	63.09	-13.83	10.23	Neutral	"Worst"	39.03	0.03	0.04	10.16			
AV	213k	38.53	53.09	-14.56	10.23	Neutral	-	28.30	0.03	0.04	10.16			
QP	303k	43.17	60.17	-17.00	10.20	Neutral	-	32.97	0.03	0.04	10.13			
AV	303k	31.35	50.17	-18.82	10.20	Neutral	-	21.15	0.03	0.04	10.13			
QP	469.5k	33.33	56.52	-23.19	10.18	Neutral	-	23.15	0.03	0.04	10.11			
AV	469.5k	22.47	46.52	-24.05	10.18	Neutral	-	12.29	0.03	0.04	10.11			
QP	5.091M	21.05	60.00	-38.95	10.37	Neutral	-	10.68	0.13	0.13	10.11			
AV	5.091M	13.68	50.00	-36.32	10.37	Neutral	-	3.31	0.13	0.13	10.11			
QP	9.825M	24.90	60.00	-35.10	10.48	Neutral	-	14.42	0.20	0.16	10.12			
AV	9.825M	17.89	50.00	-32.11	10.48	Neutral	-	7.41	0.20	0.16	10.12			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_3TX	7.55M	12.119M	12M1G1D	6.525M	11.719M
802.11g_Nss1,(6Mbps)_3TX	16.35M	19.065M	19M1D1D	16.3M	16.717M
802.11ax HEW20_Nss1,(MCS0)_3TX	18.975M	19.465M	19M5D1D	18.625M	18.966M
802.11ax HEW40_Nss1,(MCS0)_3TX	37.6M	37.731M	37M7D1D	36.85M	37.681M

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

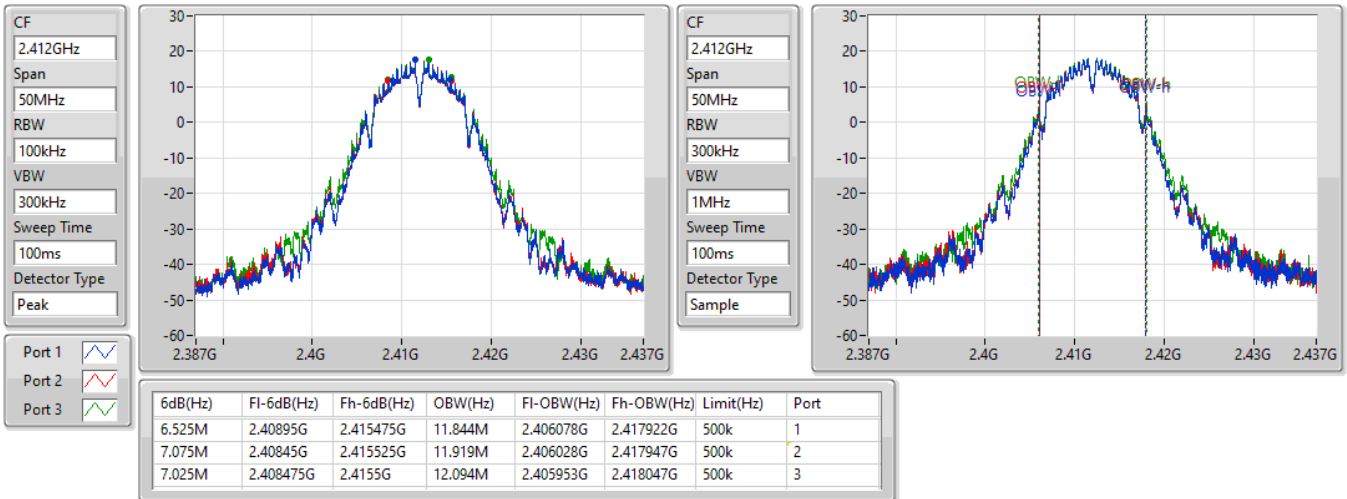
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	6.525M	11.844M	7.075M	11.919M	7.025M	12.094M
2437MHz	Pass	500k	6.975M	11.919M	7.05M	11.869M	7.525M	12.119M
2462MHz	Pass	500k	7.55M	11.744M	7.025M	11.719M	7.5M	12.019M
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.767M	16.35M	16.767M	16.325M	16.717M
2437MHz	Pass	500k	16.325M	18.441M	16.3M	18.541M	16.325M	19.065M
2462MHz	Pass	500k	16.325M	16.742M	16.35M	16.742M	16.35M	16.717M
802.11ax HEW20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.875M	19.015M	18.925M	18.991M	18.9M	18.966M
2437MHz	Pass	500k	18.875M	19.34M	18.85M	19.39M	18.85M	19.465M
2462MHz	Pass	500k	18.975M	19.015M	18.625M	18.991M	18.925M	19.015M
802.11ax HEW40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.6M	37.681M	36.85M	37.681M	37.55M	37.681M
2437MHz	Pass	500k	37.55M	37.731M	36.95M	37.681M	37.55M	37.681M
2452MHz	Pass	500k	37.6M	37.681M	37.05M	37.681M	37.5M	37.731M

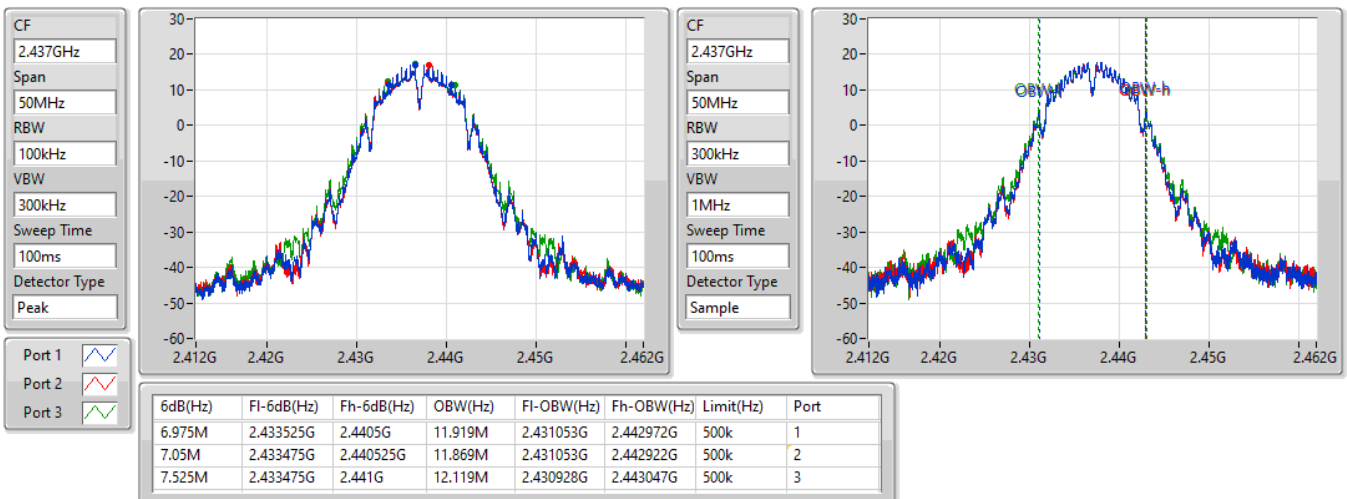
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_3TX
EBW
2412MHz

17/02/2022

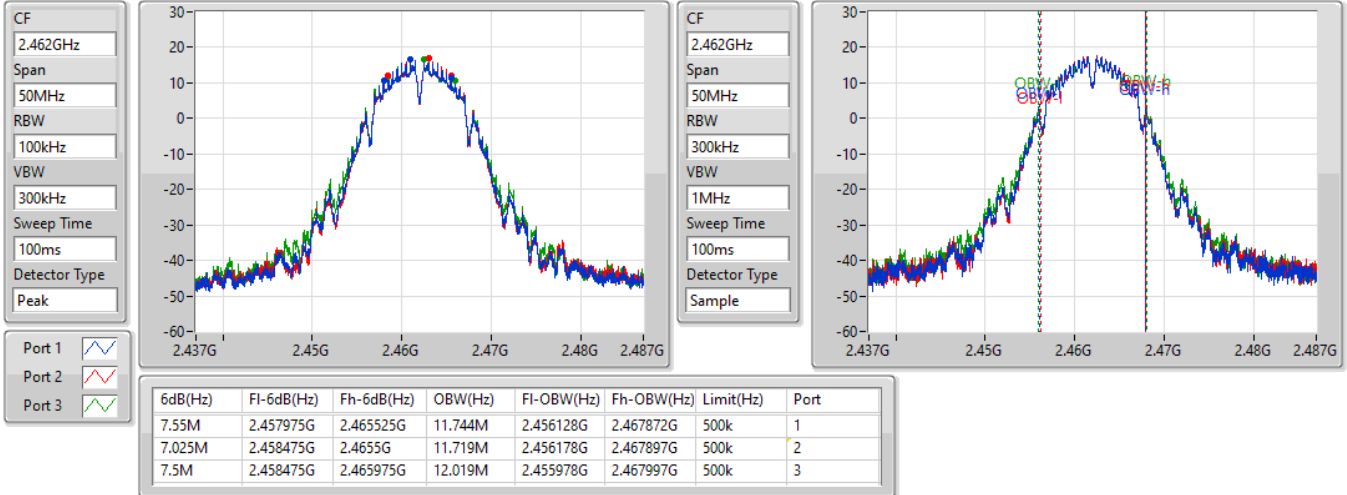

802.11b_Nss1,(1Mbps)_3TX
EBW
2437MHz

17/02/2022

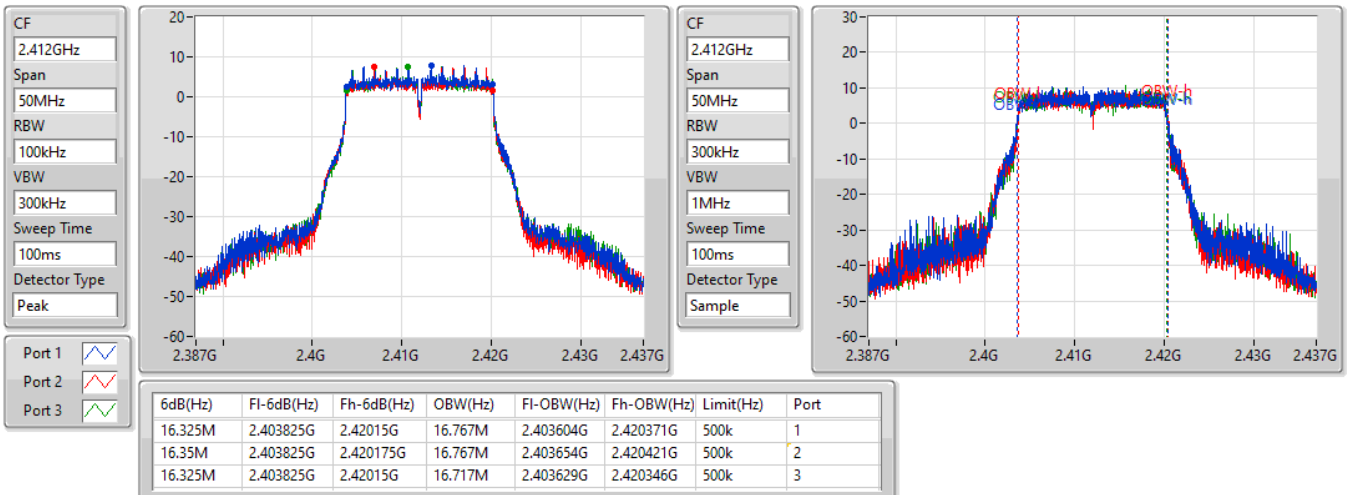


802.11b_Nss1,(1Mbps)_3TX
EBW
2462MHz

17/02/2022

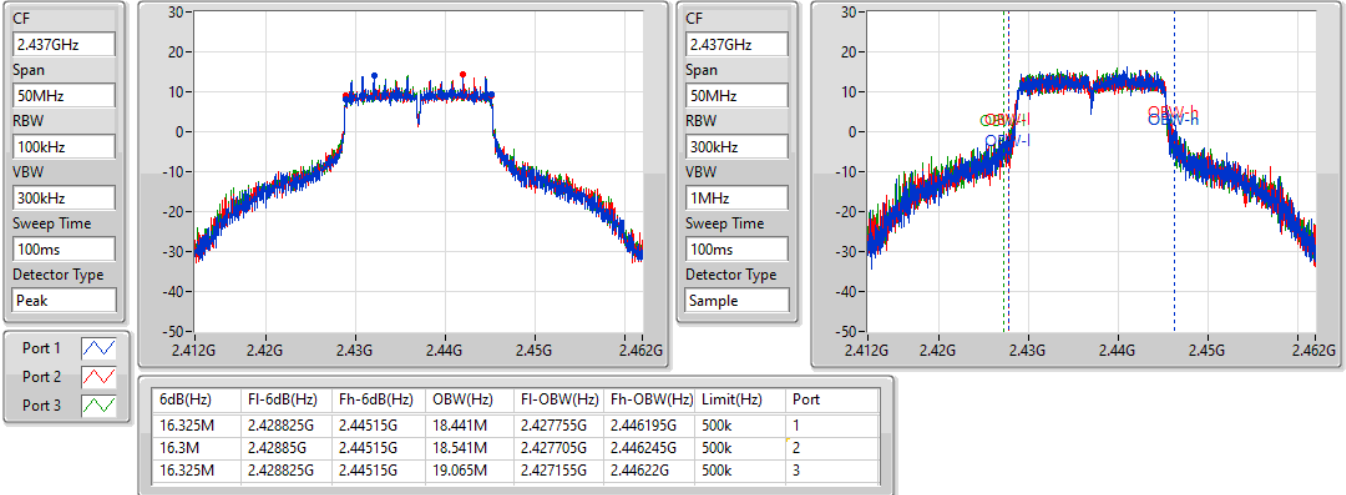

802.11g_Nss1,(6Mbps)_3TX
EBW
2412MHz

17/02/2022

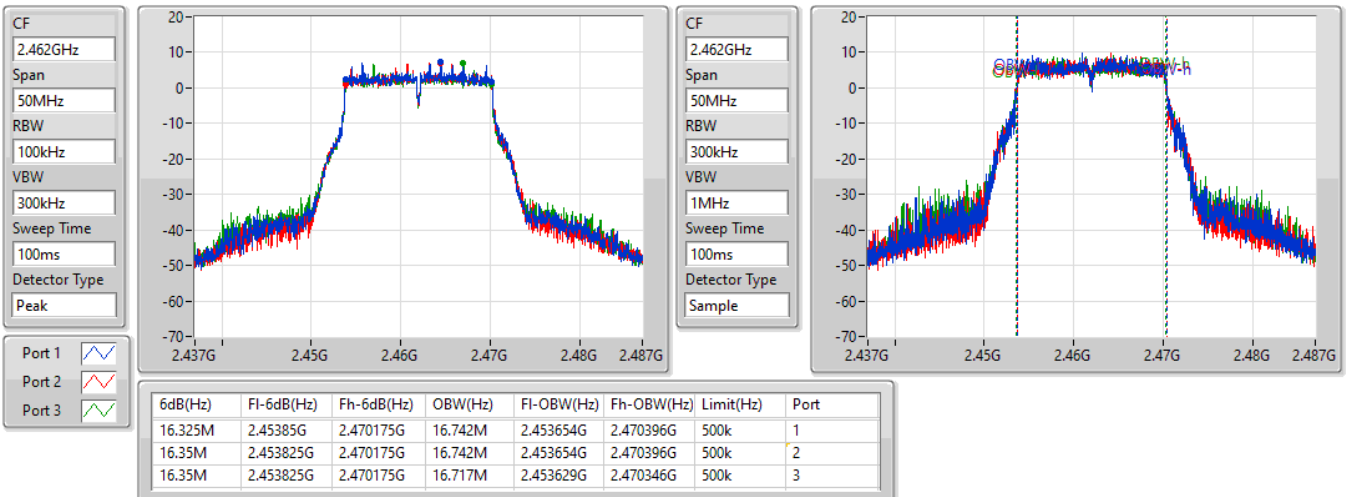


802.11g_Nss1,(6Mbps)_3TX
EBW
2437MHz

17/02/2022

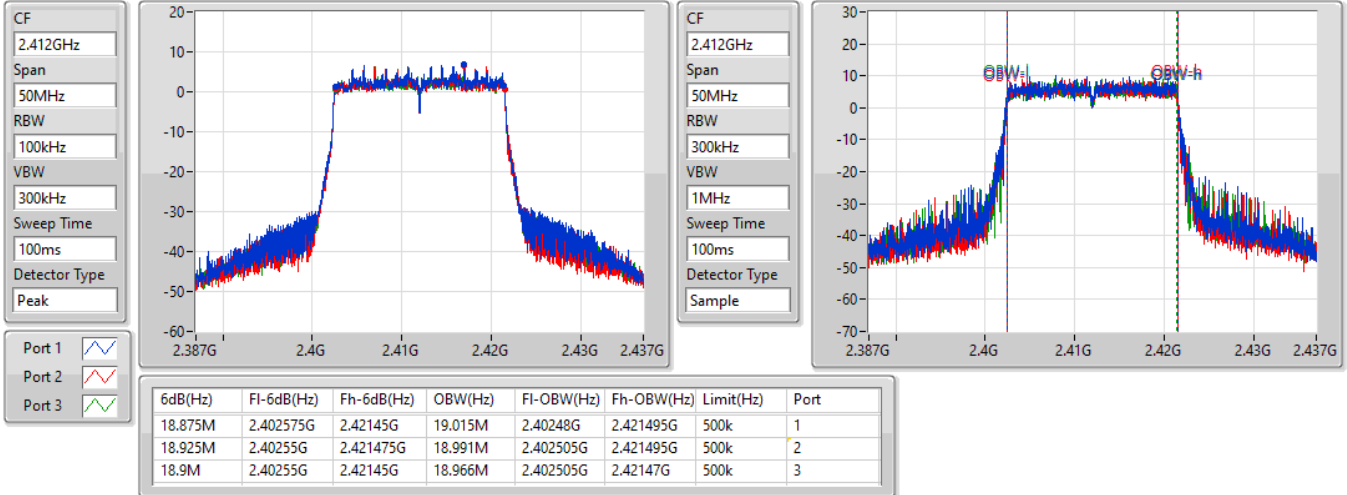

802.11g_Nss1,(6Mbps)_3TX
EBW
2462MHz

17/02/2022

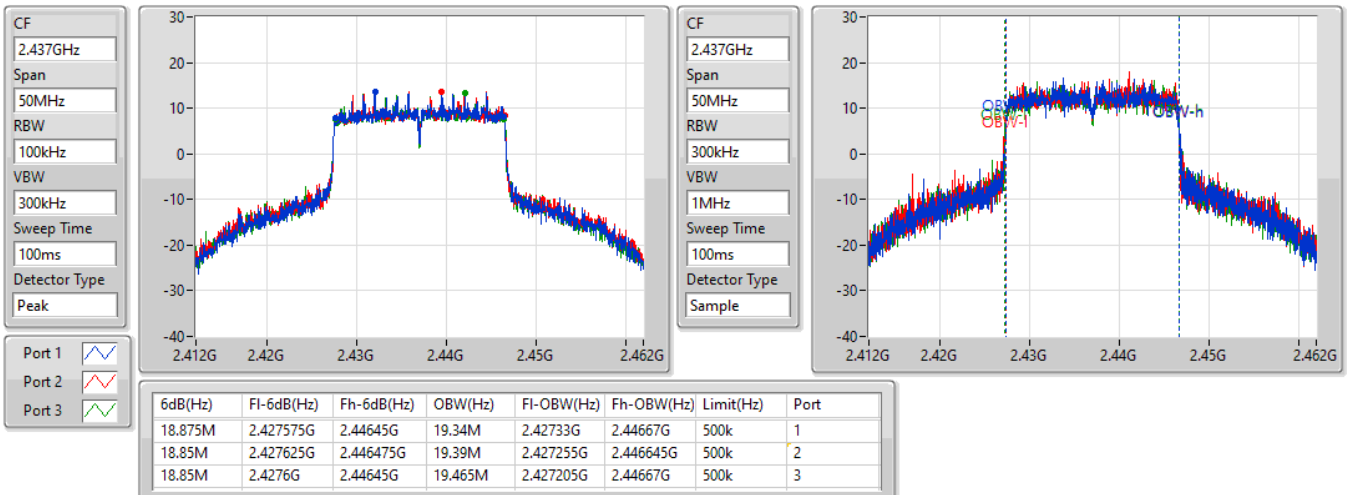


802.11ax HEW20_Nss1,(MCS0)_3TX
EBW
2412MHz

17/02/2022

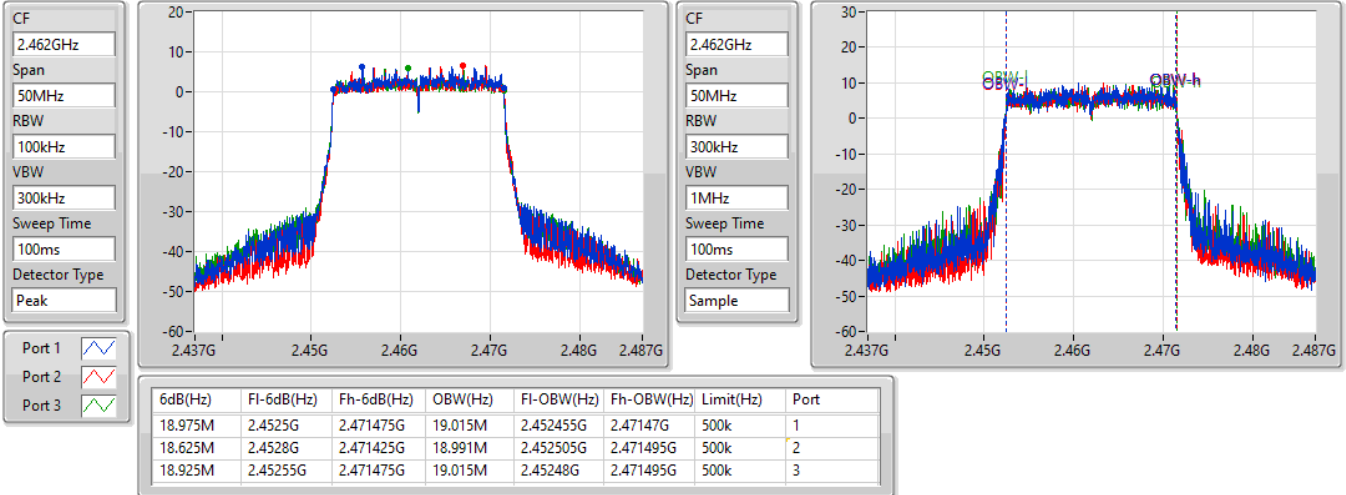

802.11ax HEW20_Nss1,(MCS0)_3TX
EBW
2437MHz

17/02/2022

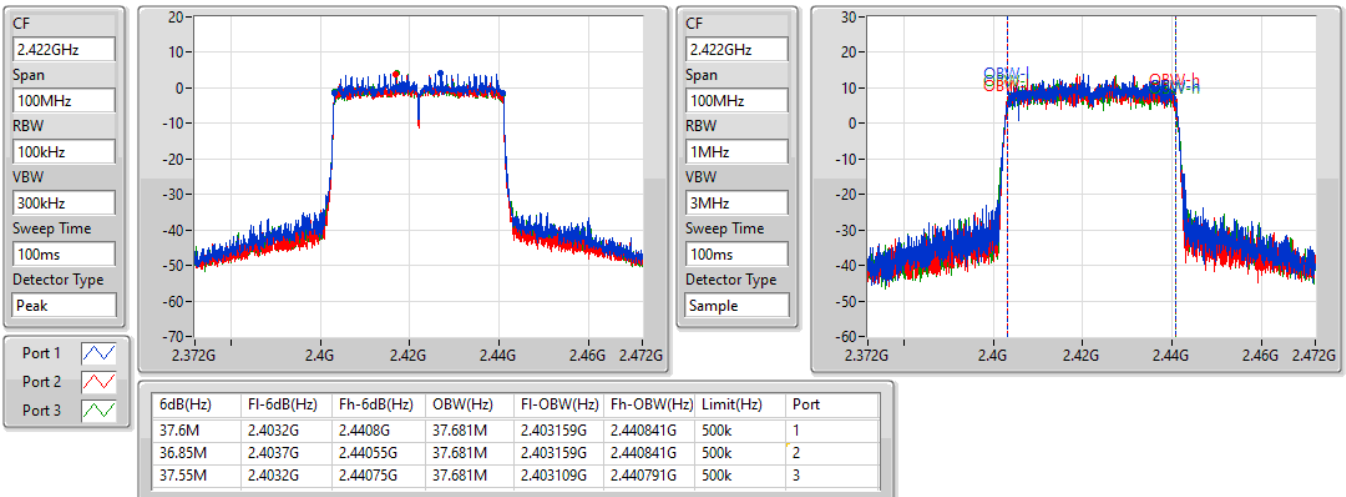


802.11ax HEW20_Nss1,(MCS0)_3TX
EBW
2462MHz

17/02/2022

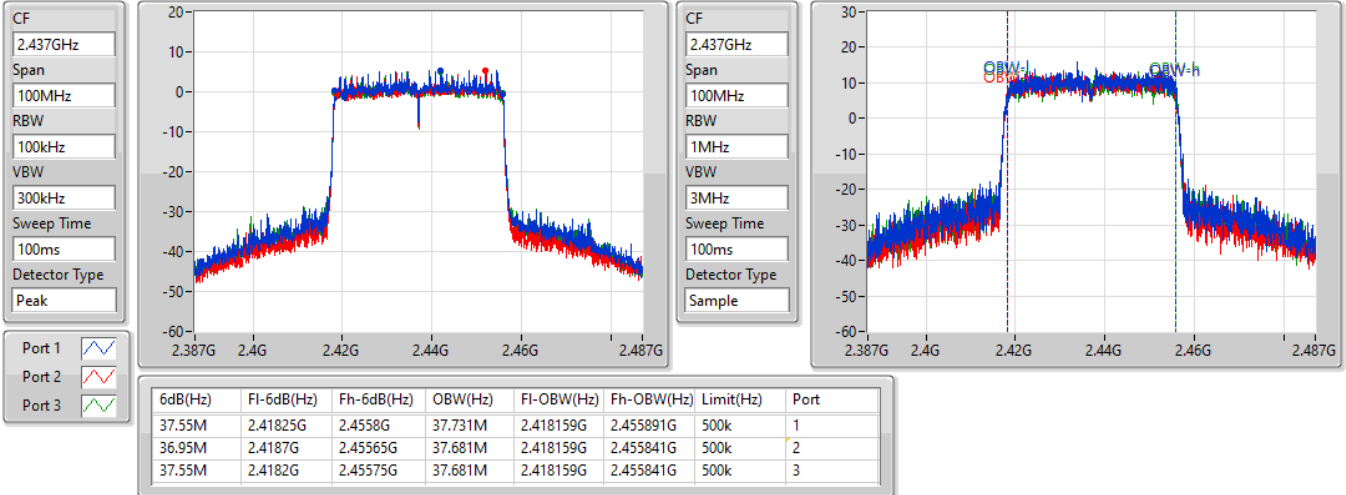

802.11ax HEW40_Nss1,(MCS0)_3TX
EBW
2422MHz

17/02/2022

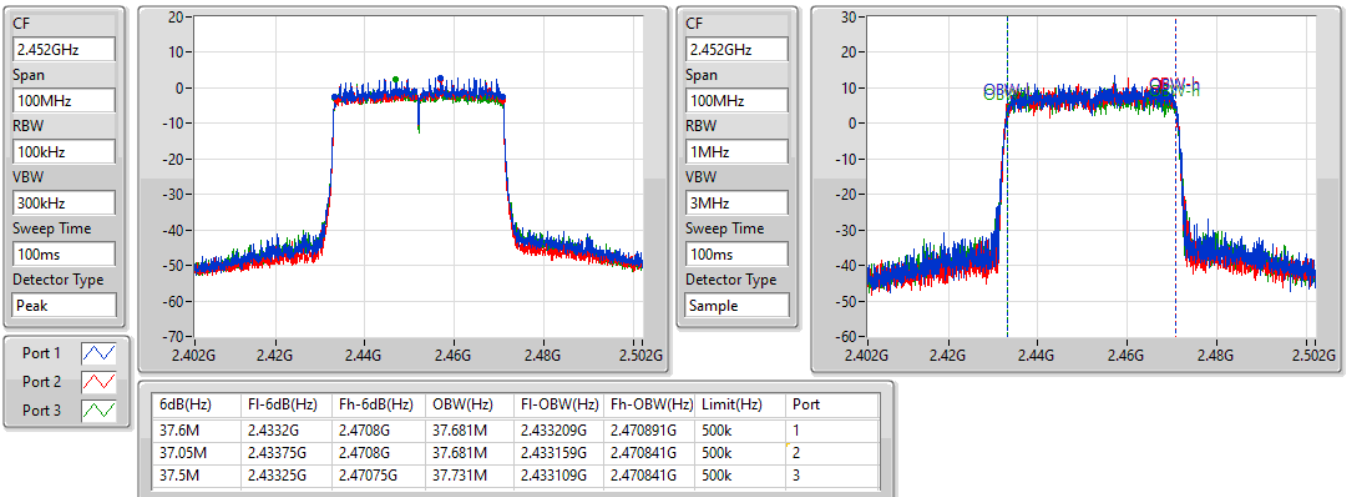


802.11ax HEW40_Nss1,(MCS0)_3TX
EBW
2437MHz

17/02/2022


802.11ax HEW40_Nss1,(MCS0)_3TX
EBW
2452MHz

17/02/2022





Average Power

Appendix C.1

For non beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_3TX	29.97	0.99312
802.11g_Nss1,(6Mbps)_3TX	29.92	0.98175
802.11ax HEW20_Nss1,(MCS0)_3TX	29.79	0.95280
802.11ax HEW40_Nss1,(MCS0)_3TX	24.69	0.29444

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	4.89	24.91	25.22	25.39	29.95	30.00
2437MHz	Pass	4.89	25.09	25.17	25.32	29.97	30.00
2462MHz	Pass	4.89	24.72	24.81	24.69	29.51	30.00
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	4.89	19.78	19.32	19.28	24.24	30.00
2417MHz	Pass	4.89	21.36	20.93	20.67	25.77	30.00
2437MHz	Pass	4.89	25.16	25.06	25.23	29.92	30.00
2457MHz	Pass	4.89	21.88	22.15	21.36	26.58	30.00
2462MHz	Pass	4.89	18.85	18.65	18.51	23.44	30.00
802.11ax HEW20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	4.89	18.66	18.23	18.42	23.21	30.00
2417MHz	Pass	4.89	20.77	20.31	20.11	25.18	30.00
2437MHz	Pass	4.89	24.89	25.18	24.97	29.79	30.00
2457MHz	Pass	4.89	20.81	20.69	20.14	25.33	30.00
2462MHz	Pass	4.89	18.48	18.27	18.35	23.14	30.00
802.11ax HEW40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	4.89	18.86	18.59	18.28	23.35	30.00
2437MHz	Pass	4.89	20.22	19.79	19.72	24.69	30.00
2452MHz	Pass	4.89	17.59	17.32	16.94	22.06	30.00

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



Average Power

Appendix C.2

For beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	29.79	0.95280
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	24.69	0.29444

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	5.05	18.66	18.23	18.42	23.21	30.00
2417MHz	Pass	5.05	20.77	20.31	20.11	25.18	30.00
2437MHz	Pass	5.05	24.89	25.18	24.97	29.79	30.00
2457MHz	Pass	5.05	20.81	20.69	20.14	25.33	30.00
2462MHz	Pass	5.05	18.48	18.27	18.35	23.14	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	5.05	18.86	18.59	18.28	23.35	30.00
2437MHz	Pass	5.05	20.22	19.79	19.72	24.69	30.00
2452MHz	Pass	5.05	17.59	17.32	16.94	22.06	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_3TX	6.63
802.11g_Nss1,(6Mbps)_3TX	3.73
802.11ax HEW20_Nss1,(MCS0)_3TX	4.40
802.11ax HEW40_Nss1,(MCS0)_3TX	-4.54

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	5.05	2.79	3.85	2.03	6.07	8.00
2437MHz	Pass	5.05	3.07	2.14	2.30	6.63	8.00
2462MHz	Pass	5.05	2.68	2.25	1.73	5.79	8.00
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	5.05	-5.91	-5.78	-5.20	-0.85	8.00
2437MHz	Pass	5.05	-0.87	-0.98	-0.68	3.73	8.00
2462MHz	Pass	5.05	-7.07	-7.05	-7.53	-2.61	8.00
802.11ax HEW20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	5.05	-7.64	-7.20	-6.85	-2.45	8.00
2437MHz	Pass	5.05	-0.67	-0.08	-0.37	4.40	8.00
2462MHz	Pass	5.05	-6.84	-7.45	-6.54	-2.16	8.00
802.11ax HEW40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	5.05	-10.50	-10.39	-10.69	-5.92	8.00
2437MHz	Pass	5.05	-9.09	-9.06	-9.26	-4.54	8.00
2452MHz	Pass	5.05	-11.61	-11.67	-12.36	-7.42	8.00

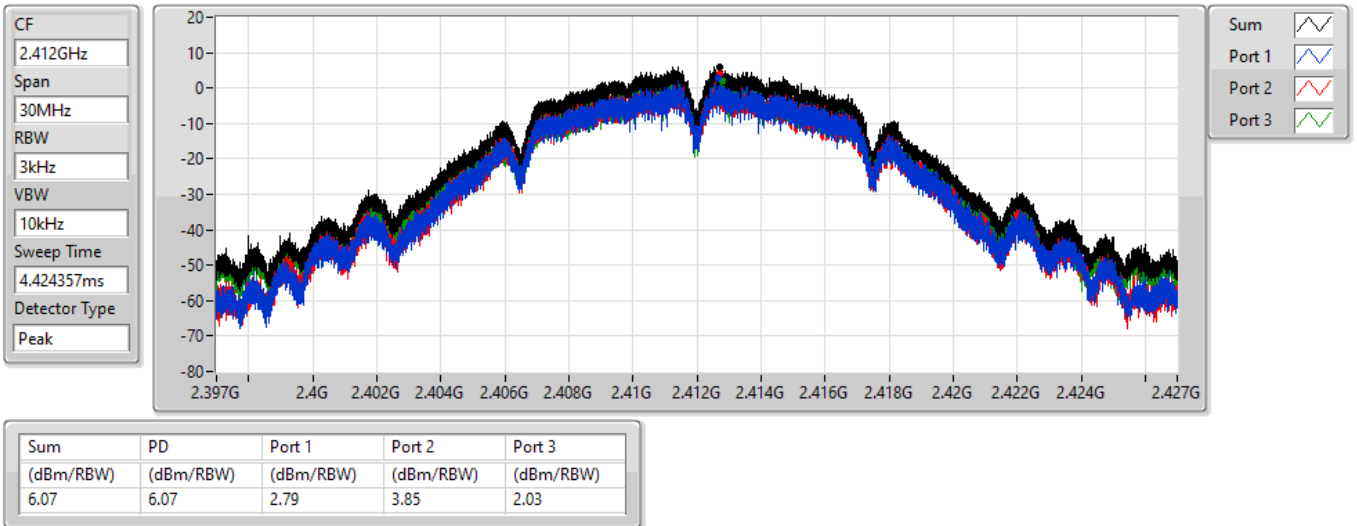
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_3TX

PSD

2412MHz

17/02/2022

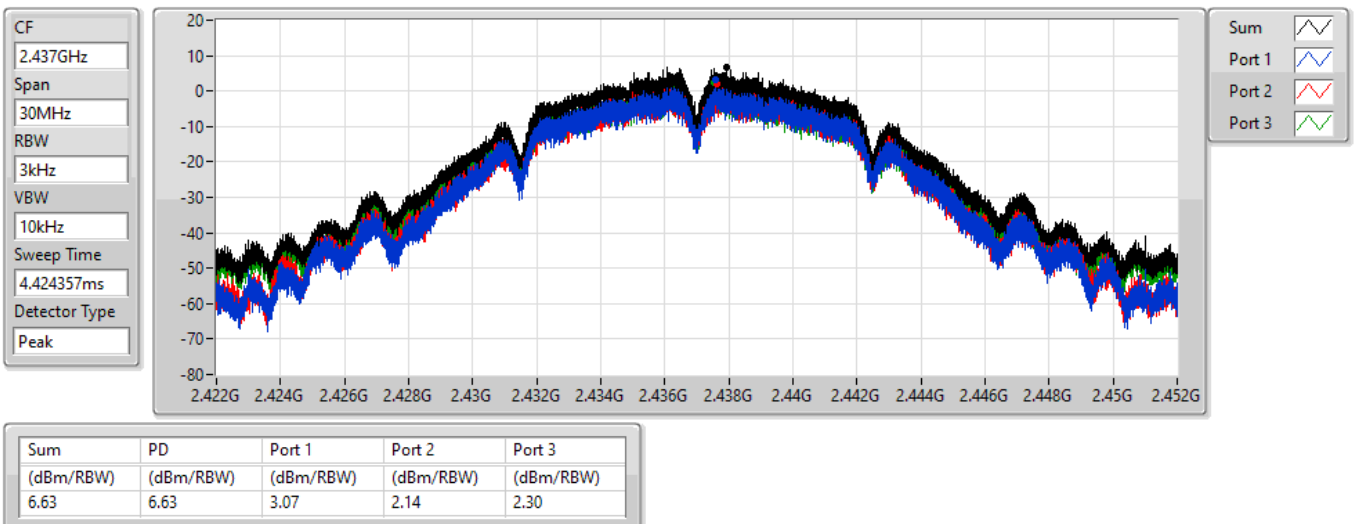


802.11b_Nss1,(1Mbps)_3TX

PSD

2437MHz

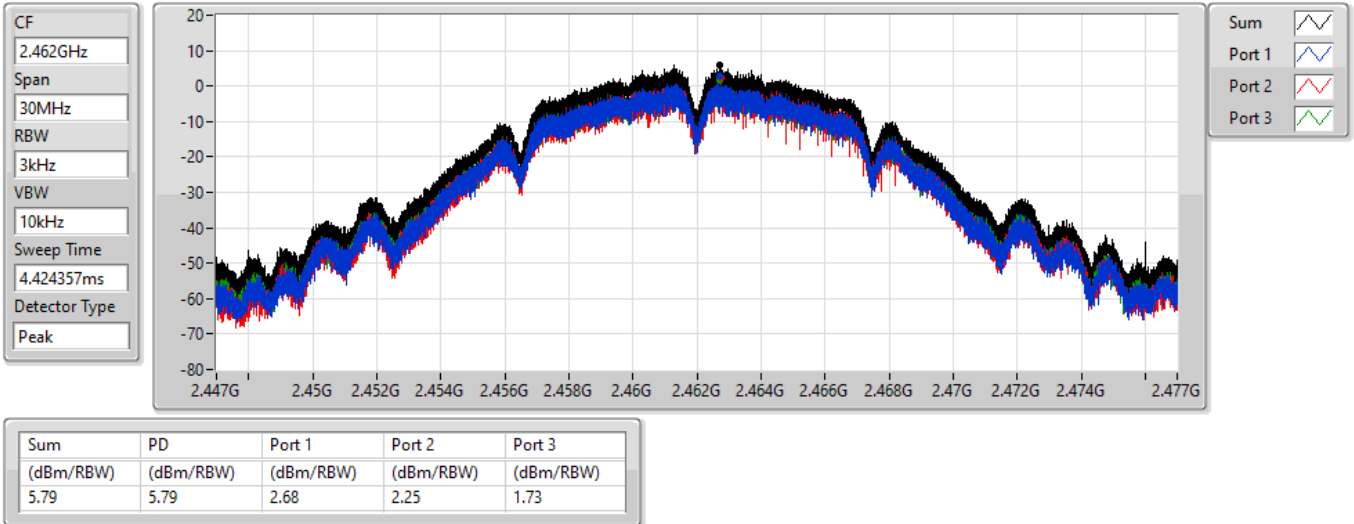
17/02/2022



802.11b_Nss1,(1Mbps)_3TX

2462MHz

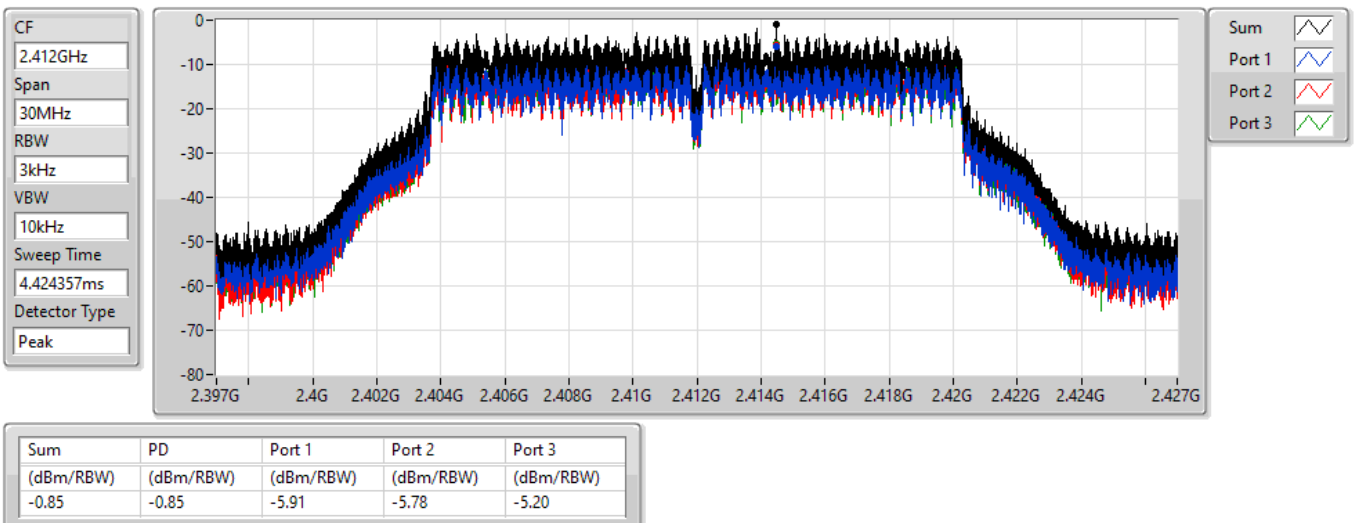
17/02/2022



802.11g_Nss1,(6Mbps)_3TX

2412MHz

17/02/2022

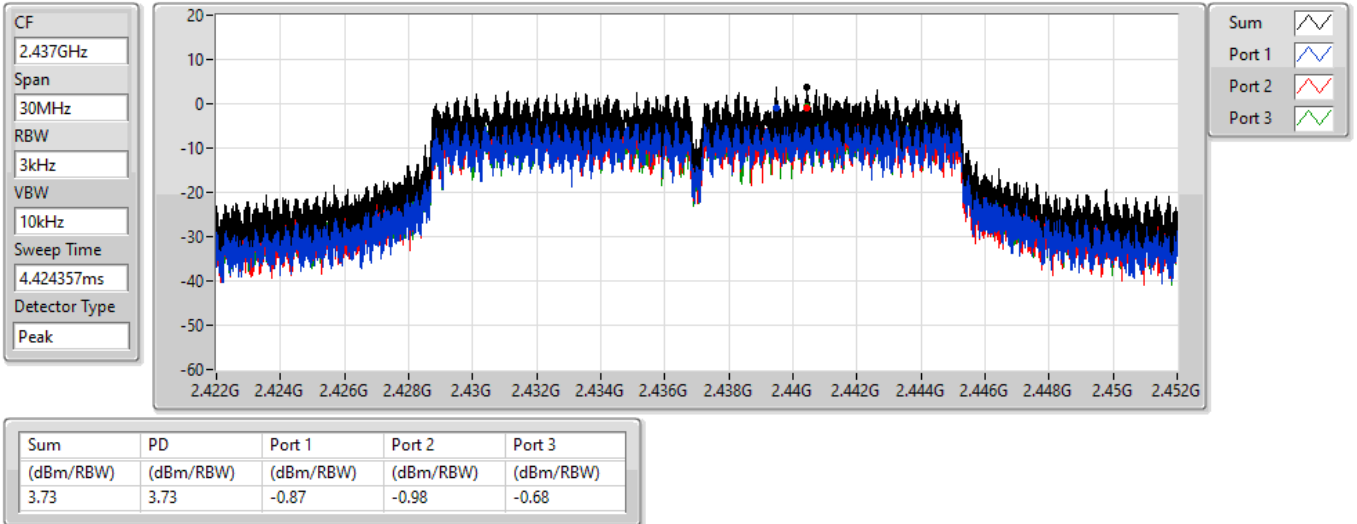


802.11g_Nss1,(6Mbps)_3TX

2437MHz

PSD

17/02/2022

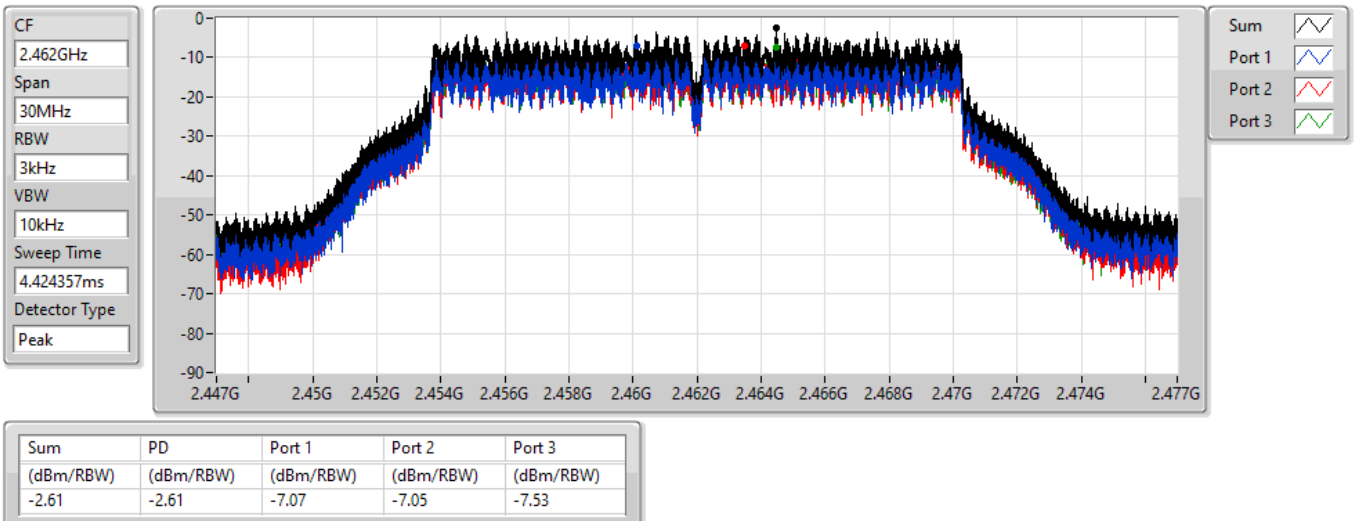


802.11g_Nss1,(6Mbps)_3TX

2462MHz

PSD

17/02/2022

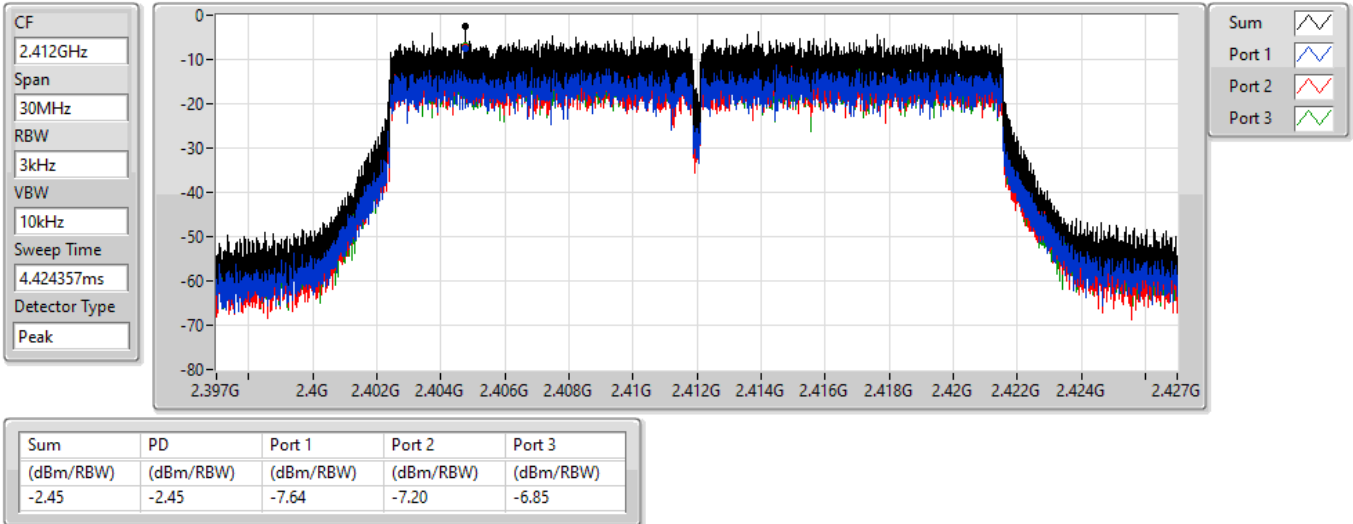


802.11ax HEW20_Nss1,(MCS0)_3TX

PSD

2412MHz

17/02/2022

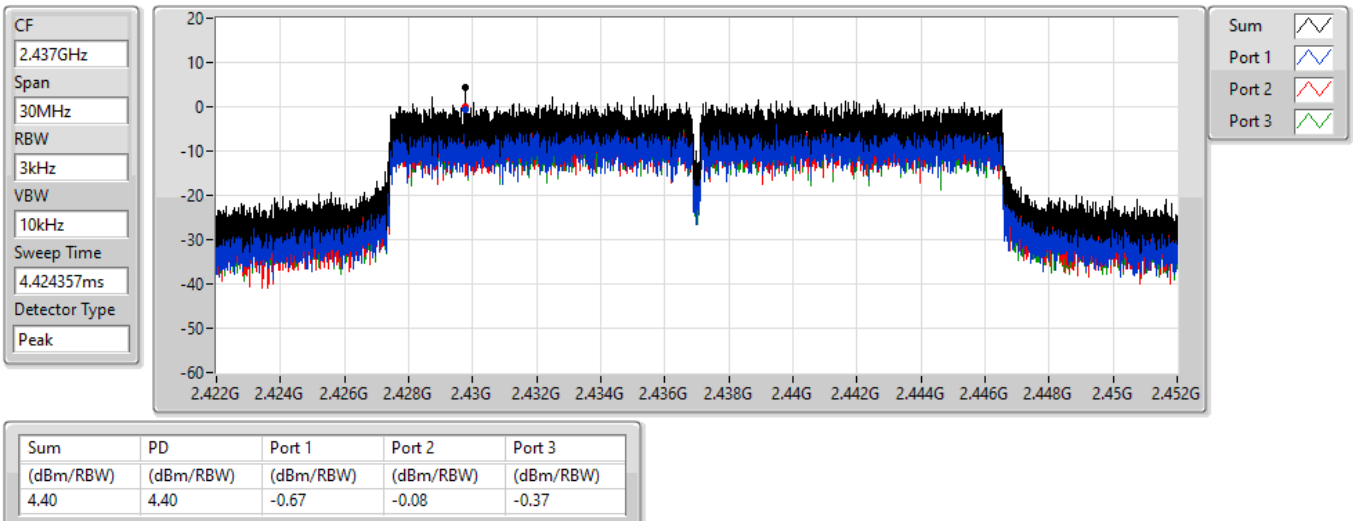


802.11ax HEW20_Nss1,(MCS0)_3TX

PSD

2437MHz

17/02/2022

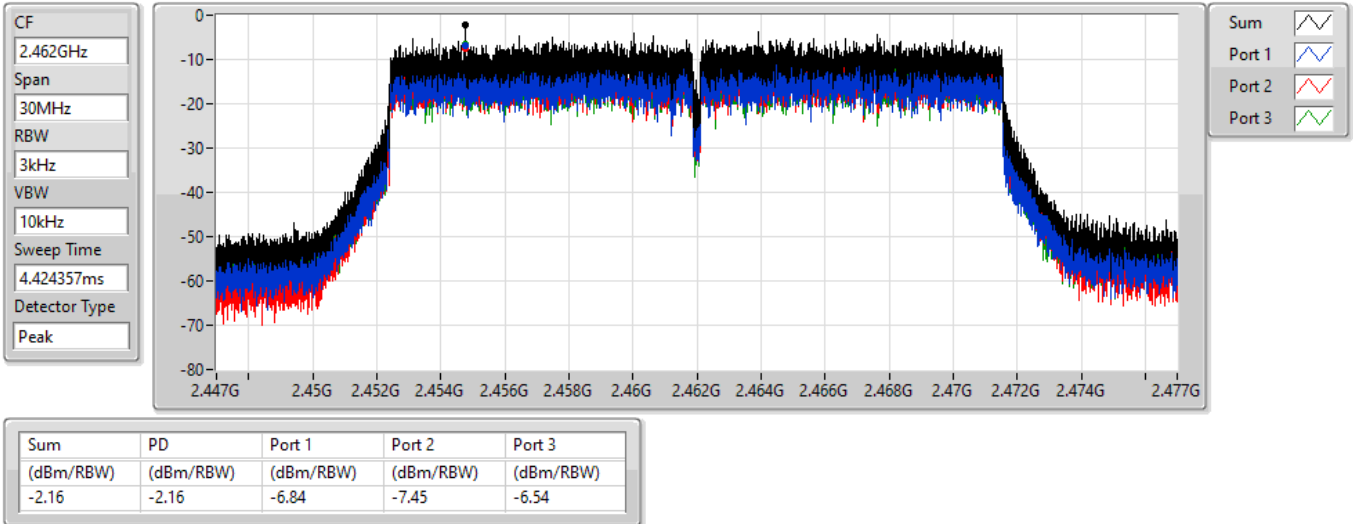


802.11ax HEW20_Nss1,(MCS0)_3TX

2462MHz

PSD

17/02/2022

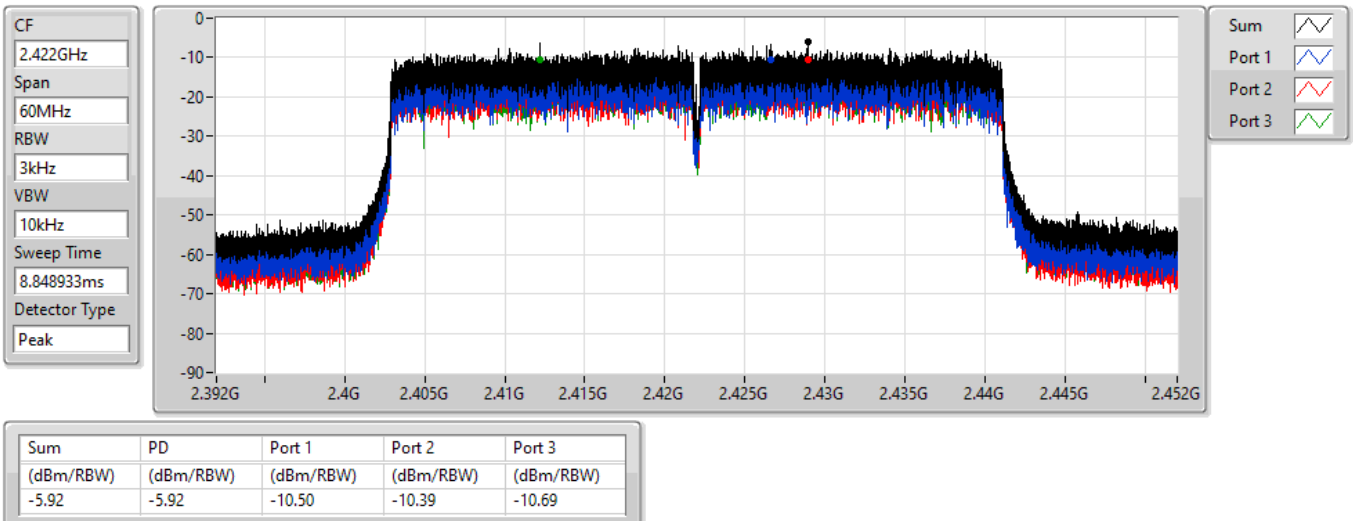


802.11ax HEW40_Nss1,(MCS0)_3TX

2422MHz

PSD

17/02/2022

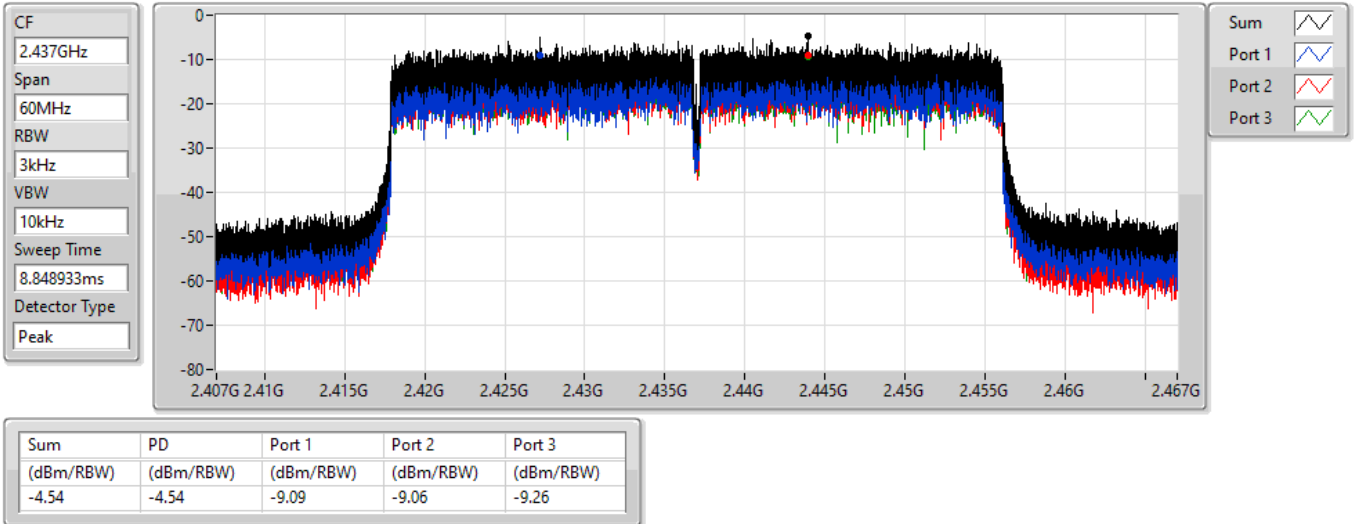


802.11ax HEW40_Nss1,(MCS0)_3TX

PSD

2437MHz

17/02/2022

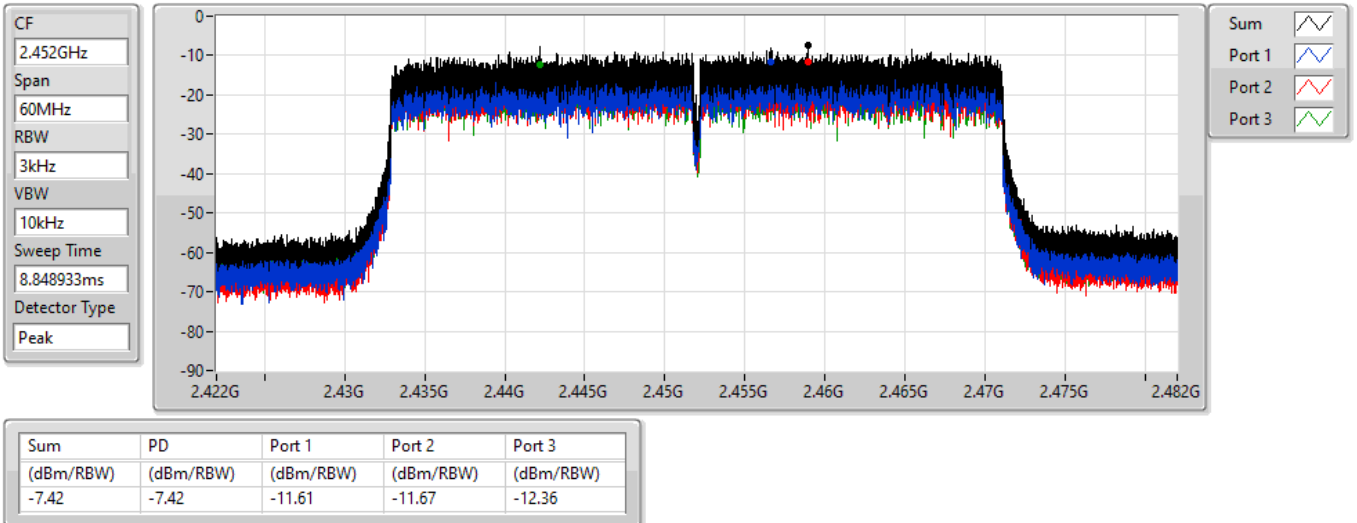


802.11ax HEW40_Nss1,(MCS0)_3TX

PSD

2452MHz

17/02/2022



**Summary**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1(1Mbps)_3TX	Pass	2.43749G	17.37	-12.63	2.30961G	-49.61	2.4G	-26.51	2.4G	-27.36	2.51252G	-43.44	7.23514G	-29.15	2
802.11g_Nss1(6Mbps)_3TX	Pass	2.442G	14.56	-15.44	2.30932G	-51.24	2.39848G	-29.50	2.4G	-32.94	2.50868G	-45.96	7.24076G	-38.20	1
802.11ax HEW20_Nss1(MCS0)_3TX	Pass	2.44196G	14.01	-15.99	2.18642G	-52.32	2.39944G	-30.45	2.4G	-31.89	2.5127G	-47.79	7.22952G	-41.72	1
802.11ax HEW40_Nss1(MCS0)_3TX	Pass	2.442G	5.60	-24.40	789.14M	-52.33	2.39952G	-31.98	2.4G	-36.99	2.48442G	-40.52	17.66607G	-46.60	3

Result

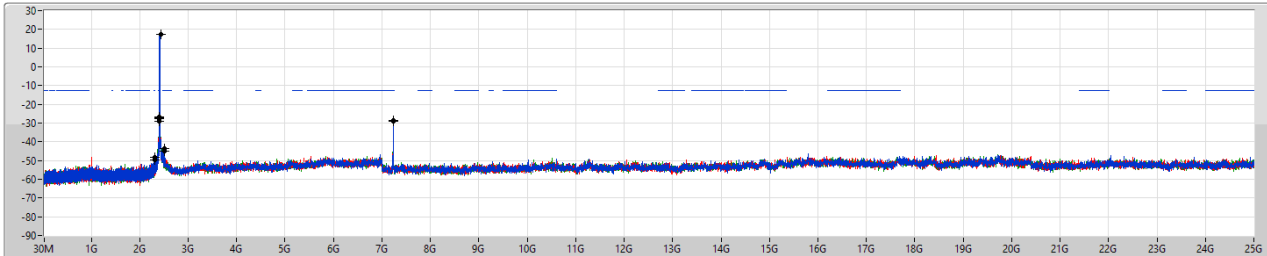
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1(1Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43749G	17.37	-12.63	2.30758G	-49.78	2.39998G	-27.62	2.4G	-27.87	2.51096G	-43.81	7.23514G	-29.00	1
2412MHz	Pass	2.43749G	17.37	-12.63	2.30961G	-49.61	2.4G	-26.51	2.4G	-27.36	2.51252G	-43.44	7.23514G	-29.15	2
2412MHz	Pass	2.43749G	17.37	-12.63	2.30903G	-48.37	2.4G	-28.85	2.4G	-27.47	2.5115G	-44.78	7.23514G	-28.46	3
2437MHz	Pass	2.43749G	17.37	-12.63	2.30117G	-52.82	2.3993G	-45.82	2.4G	-47.26	2.50324G	-45.12	5.79664G	-35.96	1
2437MHz	Pass	2.43749G	17.37	-12.63	2.30758G	-51.15	2.39906G	-45.66	2.4835G	-46.16	2.48872G	-44.30	6.95137G	-47.00	2
2437MHz	Pass	2.43749G	17.37	-12.63	2.30961G	-51.57	2.399G	-43.53	2.4G	-43.50	2.48406G	-45.02	6.9598G	-47.77	3
2462MHz	Pass	2.43749G	17.37	-12.63	839.09M	-52.05	2.39788G	-48.61	2.4835G	-44.06	2.48802G	-42.41	6.09726G	-47.63	1
2462MHz	Pass	2.43749G	17.37	-12.63	2.30495G	-52.27	2.39066G	-47.81	2.4835G	-42.57	2.48868G	-42.08	2.56002G	-45.72	2
2462MHz	Pass	2.43749G	17.37	-12.63	2.30204G	-51.05	2.39798G	-47.46	2.4835G	-40.63	2.48864G	-42.02	2.56283G	-45.55	3
802.11g_Nss1(6Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	14.56	-15.44	2.30932G	-51.24	2.39848G	-29.50	2.4G	-32.94	2.50868G	-45.96	7.24076G	-38.20	1
2412MHz	Pass	2.442G	14.56	-15.44	2.30961G	-51.09	2.39982G	-30.33	2.4G	-35.30	2.51286G	-47.46	7.23233G	-40.79	2
2412MHz	Pass	2.442G	14.56	-15.44	949.77M	-52.31	2.39888G	-29.97	2.4G	-33.83	2.48804G	-49.02	7.24076G	-41.01	3
2437MHz	Pass	2.442G	14.56	-15.44	2.30874G	-50.02	2.39982G	-36.78	2.4G	-39.41	2.48456G	-41.25	2.63869G	-45.81	1
2437MHz	Pass	2.442G	14.56	-15.44	2.30845G	-49.99	2.39886G	-36.17	2.4G	-38.89	2.48694G	-41.06	2.5235G	-46.22	2
2437MHz	Pass	2.442G	14.56	-15.44	2.30787G	-51.76	2.3986G	-35.26	2.4G	-40.08	2.48572G	-42.80	2.5235G	-47.34	3
2462MHz	Pass	2.442G	14.56	-15.44	2.16894G	-52.80	2.39796G	-50.26	2.4835G	-41.46	2.48354G	-40.12	6.58613G	-47.89	1
2462MHz	Pass	2.442G	14.56	-15.44	2.18729G	-52.73	2.39136G	-48.68	2.4835G	-43.79	2.48386G	-42.49	16.27631G	-48.03	2
2462MHz	Pass	2.442G	14.56	-15.44	665.22M	-52.75	2.398G	-49.28	2.4835G	-40.63	2.48354G	-38.16	17.61366G	-47.92	3
802.11ax HEW20_Nss1(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44196G	14.01	-15.99	2.18642G	-52.32	2.39944G	-30.45	2.4G	-31.89	2.5127G	-47.79	7.22952G	-41.72	1
2412MHz	Pass	2.44196G	14.01	-15.99	2.3G	-52.79	2.3997G	-31.38	2.4G	-32.21	2.5097G	-48.15	7.23233G	-40.68	2
2412MHz	Pass	2.44196G	14.01	-15.99	2.30117G	-51.00	2.3997G	-30.99	2.4G	-32.82	2.50554G	-48.96	7.22952G	-40.65	3
2437MHz	Pass	2.44196G	14.01	-15.99	2.30699G	-51.38	2.39988G	-36.00	2.4G	-37.38	2.48422G	-41.83	2.5235G	-46.78	1
2437MHz	Pass	2.44196G	14.01	-15.99	2.30932G	-50.11	2.39872G	-35.34	2.4G	-38.74	2.48466G	-40.41	2.53193G	-46.95	2
2437MHz	Pass	2.44196G	14.01	-15.99	2.30612G	-52.88	2.39494G	-35.18	2.4G	-39.69	2.48554G	-43.30	6.33046G	-47.67	3
2462MHz	Pass	2.44196G	14.01	-15.99	2.30728G	-52.91	2.39512G	-49.57	2.4835G	-42.58	2.48352G	-38.75	5.89498G	-46.81	1
2462MHz	Pass	2.44196G	14.01	-15.99	883.95M	-52.21	2.39022G	-50.01	2.4835G	-43.42	2.48368G	-39.56	17.65861G	-46.54	2
2462MHz	Pass	2.44196G	14.01	-15.99	1.62023G	-52.92	2.39972G	-49.13	2.4835G	-41.24	2.48362G	-39.40	6.78842G	-47.36	3
802.11ax HEW40_Nss1(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.442G	5.60	-24.40	2.16628G	-52.84	2.39608G	-34.92	2.4G	-37.94	2.4853G	-47.28	7.24712G	-44.64	1
2422MHz	Pass	2.442G	5.60	-24.40	2.30912G	-52.83	2.3976G	-36.39	2.4G	-36.89	2.5009G	-47.61	7.24431G	-45.94	2
2422MHz	Pass	2.442G	5.60	-24.40	2.3097G	-51.46	2.3976G	-36.44	2.4G	-40.01	2.49418G	-48.82	7.24992G	-46.80	3
2437MHz	Pass	2.442G	5.60	-24.40	2.30683G	-51.04	2.39956G	-33.77	2.4G	-38.30	2.48446G	-37.27	6.75632G	-47.79	1
2437MHz	Pass	2.442G	5.60	-24.40	2.3097G	-52.69	2.39948G	-35.10	2.4G	-39.74	2.48442G	-38.67	17.63522G	-47.73	2
2437MHz	Pass	2.442G	5.60	-24.40	789.14M	-52.33	2.39952G	-31.98	2.4G	-36.99	2.48442G	-40.52	17.66607G	-46.60	3
2452MHz	Pass	2.442G	5.60	-24.40	2.30741G	-51.75	2.39572G	-49.59	2.4835G	-45.30	2.48942G	-40.92	6.9274G	-47.75	1
2452MHz	Pass	2.442G	5.60	-24.40	2.17287G	-52.27	2.39932G	-49.27	2.4835G	-45.62	2.49014G	-42.85	5.82801G	-47.76	2
2452MHz	Pass	2.442G	5.60	-24.40	2.19863G	-52.82	2.39792G	-49.63	2.4835G	-44.65	2.4901G	-41.00	5.86167G	-46.94	3

802.11b_Nss1,(1Mbps)_3TX

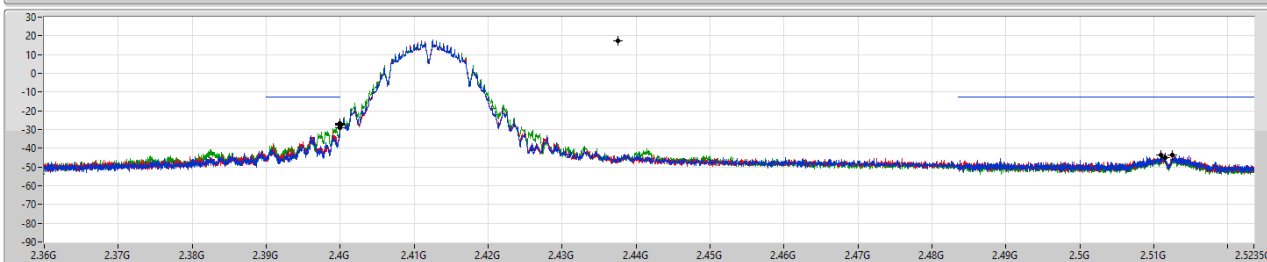
2412MHz

CSENdB

17/02/2022



Port 1
Port 2
Port 3



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

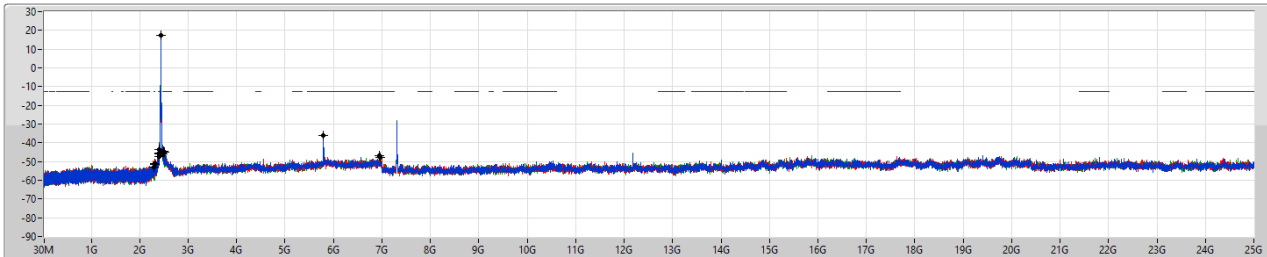
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43749G	17.37	-12.63	2.30758G	-49.78	2.39998G	-27.62	2.4G	-27.87	2.51096G	-43.81	7.23514G	-29.00	1
2.43749G	17.37	-12.63	2.30961G	-49.61	2.4G	-26.51	2.4G	-27.36	2.51252G	-43.44	7.23514G	-29.15	2
2.43749G	17.37	-12.63	2.30903G	-48.37	2.4G	-28.85	2.4G	-27.47	2.5115G	-44.78	7.23514G	-28.46	3

802.11b_Nss1,(1Mbps)_3TX

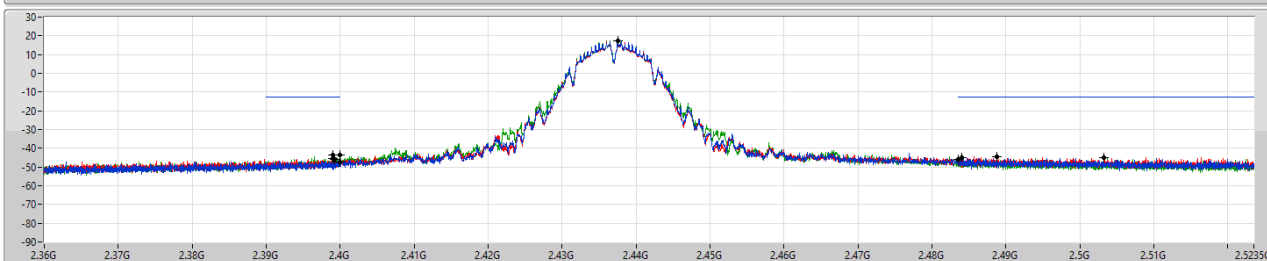
2437MHz

CSENdB

17/02/2022



Port 1
Port 2
Port 3



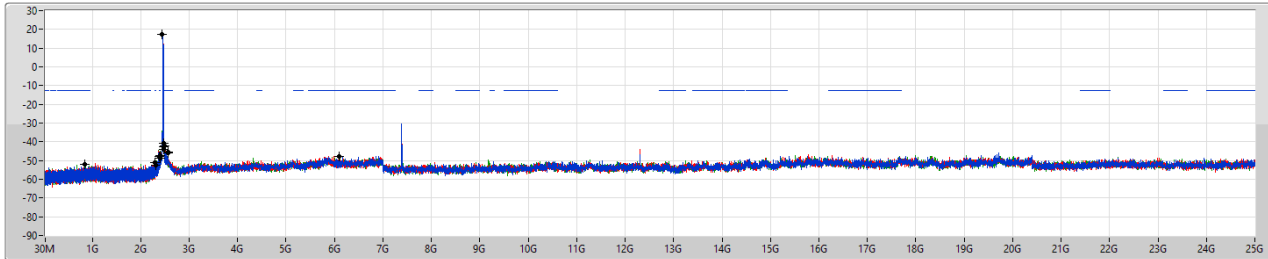
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43749G	17.37	-12.63	2.30117G	-52.82	2.39993G	-45.82	2.4G	-47.26	2.50324G	-45.12	5.79664G	-35.96	1
2.43749G	17.37	-12.63	2.30758G	-51.15	2.39906G	-45.66	2.4835G	-46.16	2.48872G	-44.30	6.95137G	-47.00	2
2.43749G	17.37	-12.63	2.30961G	-51.57	2.399G	-43.53	2.4G	-43.50	2.48406G	-45.02	6.9998G	-47.77	3

802.11b_Nss1,(1Mbps)_3TX

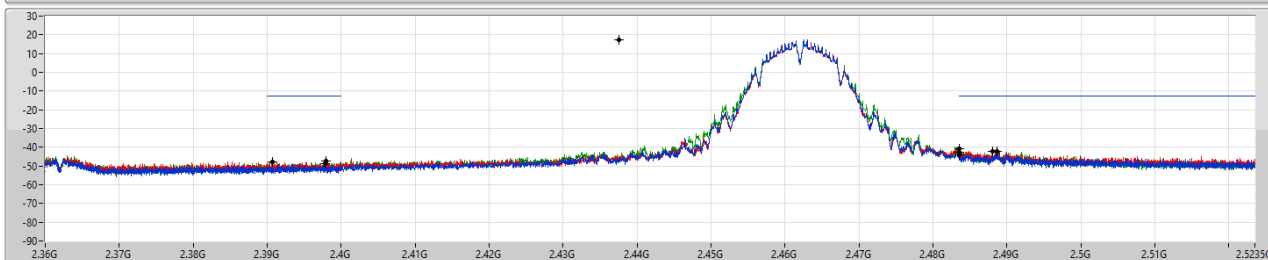
CSENdB

2462MHz



17/02/2022
Port 1
Port 2
Port 3

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

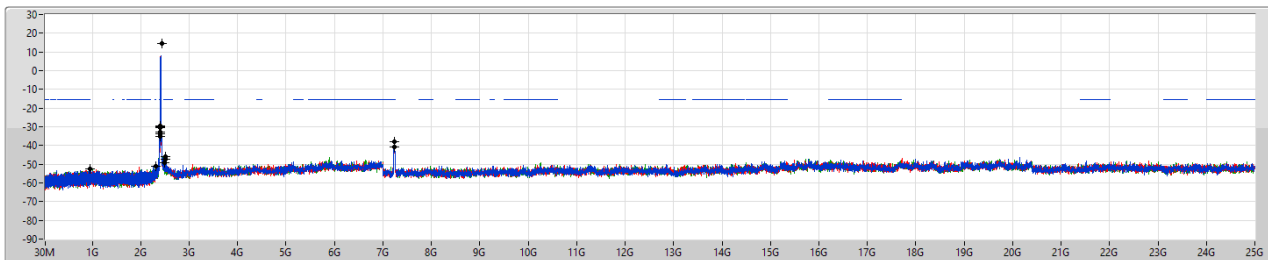


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43749G	17.37	-12.63	839.09M	-52.05	2.39788G	-48.61	2.4835G	-44.06	2.48802G	-42.41	6.09726G	-47.63	1
2.43749G	17.37	-12.63	2.30495G	-52.27	2.39066G	-47.81	2.4835G	-42.57	2.48868G	-42.08	2.56002G	-45.72	2
2.43749G	17.37	-12.63	2.30204G	-51.05	2.39798G	-47.46	2.4835G	-40.63	2.48864G	-42.02	2.56283G	-45.55	3

802.11g_Nss1,(6Mbps)_3TX

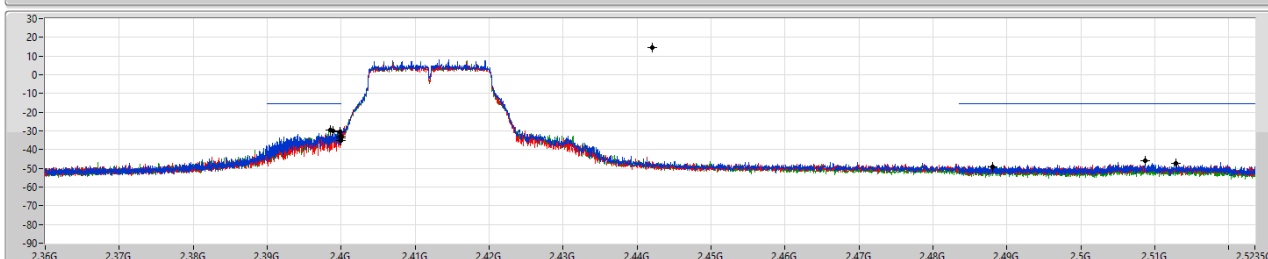
CSENdB

2412MHz



17/02/2022
Port 1
Port 2
Port 3

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



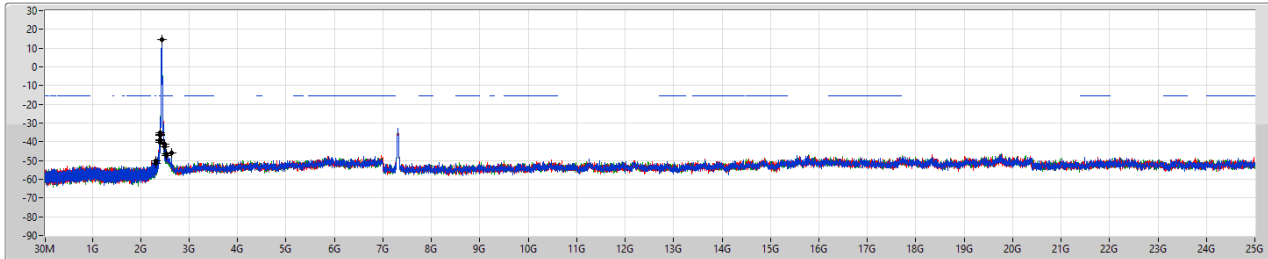
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	14.56	-15.44	2.30932G	-51.24	2.39848G	-29.50	2.4G	-32.94	2.50868G	-45.96	7.24076G	-38.20	1
2.442G	14.56	-15.44	2.30961G	-51.09	2.39982G	-30.33	2.4G	-35.30	2.51286G	-47.46	7.23233G	-40.79	2
2.442G	14.56	-15.44	949.77M	-52.31	2.39888G	-29.97	2.4G	-33.83	2.48804G	-49.02	7.24076G	-41.01	3

802.11g_Nss1,(6Mbps)_3TX

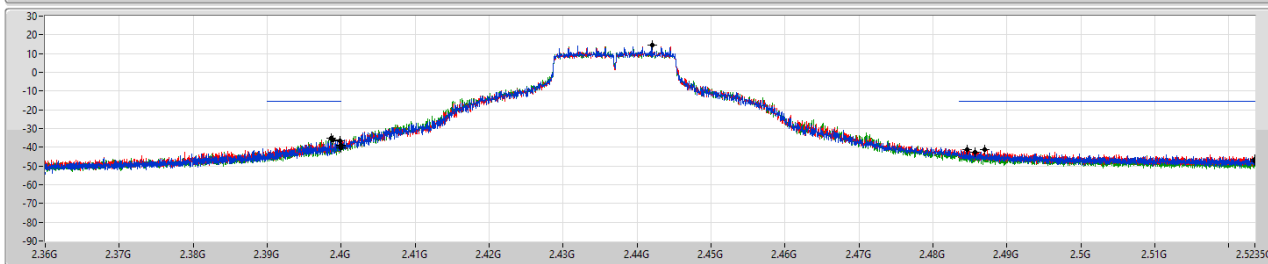
CSENdb

2437MHz

17/02/2022



Port 1
Port 2
Port 3



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

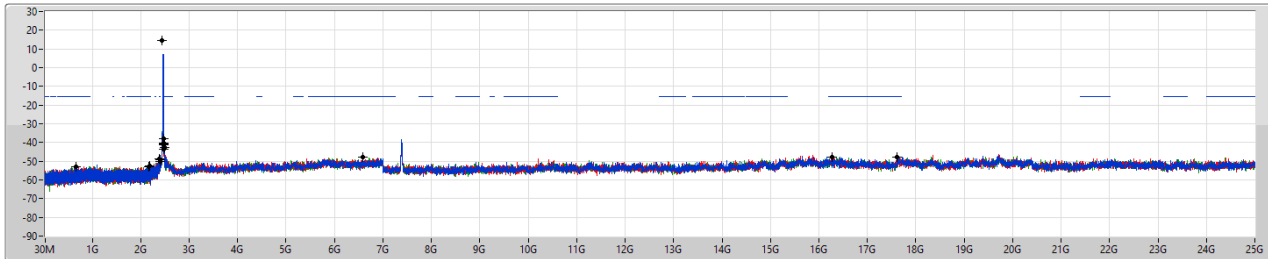
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2.442G	14.56	-15.44	2.30874G	-50.02	2.39982G	-36.78	2.4G	-39.41	2.48456G	-41.25	2.63869G	-45.81	1
2.442G	14.56	-15.44	2.30845G	-49.99	2.39886G	-36.17	2.4G	-38.89	2.48694G	-41.06	2.5235G	-46.22	2
2.442G	14.56	-15.44	2.30787G	-51.76	2.3986G	-35.26	2.4G	-40.08	2.48572G	-42.80	2.5235G	-47.34	3

802.11g_Nss1,(6Mbps)_3TX

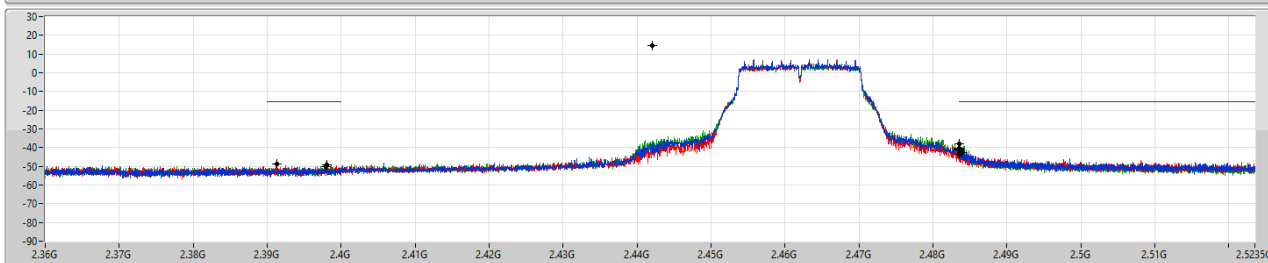
CSENdb

2462MHz

17/02/2022



Port 1
Port 2
Port 3



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

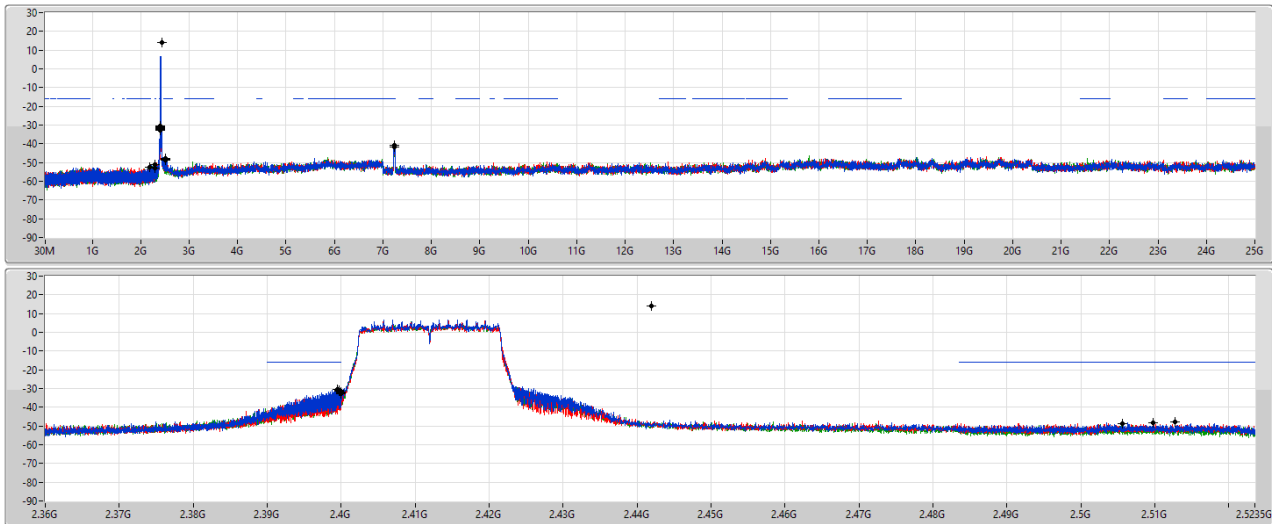
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2.442G	14.56	-15.44	2.16894G	-52.80	2.39796G	-50.26	2.4835G	-41.46	2.48354G	-40.12	6.58613G	-47.89	1
2.442G	14.56	-15.44	2.18729G	-52.73	2.39136G	-48.68	2.4835G	-43.79	2.48386G	-42.49	16.27631G	-48.03	2
2.442G	14.56	-15.44	665.22M	-52.75	2.398G	-49.28	2.4835G	-40.63	2.48354G	-38.16	17.61366G	-47.92	3

802.11ax HEW20_Nss1,(MCS0)_3TX

2412MHz

CSENdB

17/02/2022



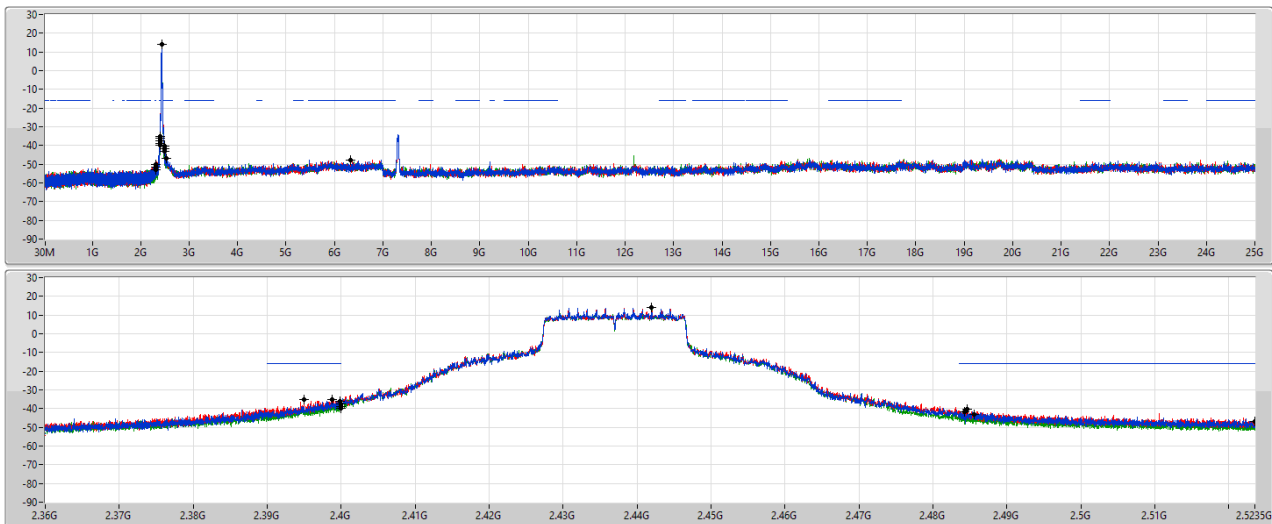
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2.44196G	14.01	-15.99	2.18642G	-52.32	2.39944G	-30.45	2.4G	-31.89	2.5127G	-47.79	7.22952G	-41.72	1
2.44196G	14.01	-15.99	2.3G	-52.79	2.3997G	-31.38	2.4G	-32.21	2.5097G	-48.15	7.23233G	-40.68	2
2.44196G	14.01	-15.99	2.30117G	-51.00	2.3997G	-30.99	2.4G	-32.82	2.50554G	-48.96	7.22952G	-40.65	3

802.11ax HEW20_Nss1,(MCS0)_3TX

2437MHz

CSENdB

17/02/2022



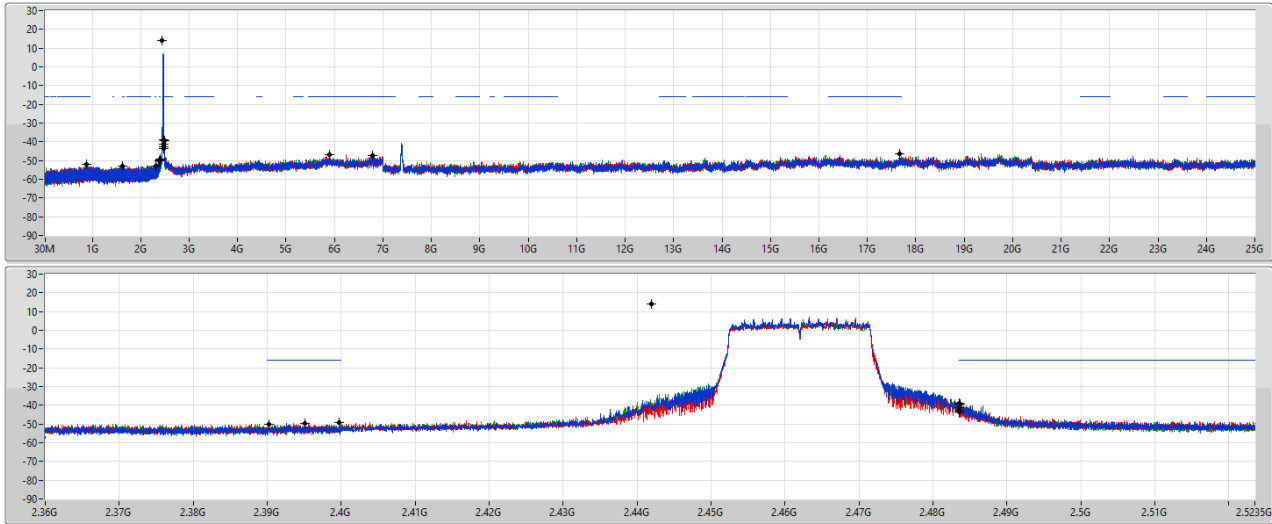
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2.44196G	14.01	-15.99	2.30699G	-51.38	2.39988G	-36.00	2.4G	-37.38	2.48422G	-41.83	2.5235G	-46.78	1
2.44196G	14.01	-15.99	2.30932G	-50.11	2.39872G	-35.34	2.4G	-38.74	2.48466G	-40.41	2.53193G	-46.95	2
2.44196G	14.01	-15.99	2.30612G	-52.88	2.39494G	-35.18	2.4G	-39.69	2.48554G	-43.30	6.33046G	-47.67	3

802.11ax HEW20_Nss1,(MCS0)_3TX

2462MHz

CSENdB

17/02/2022



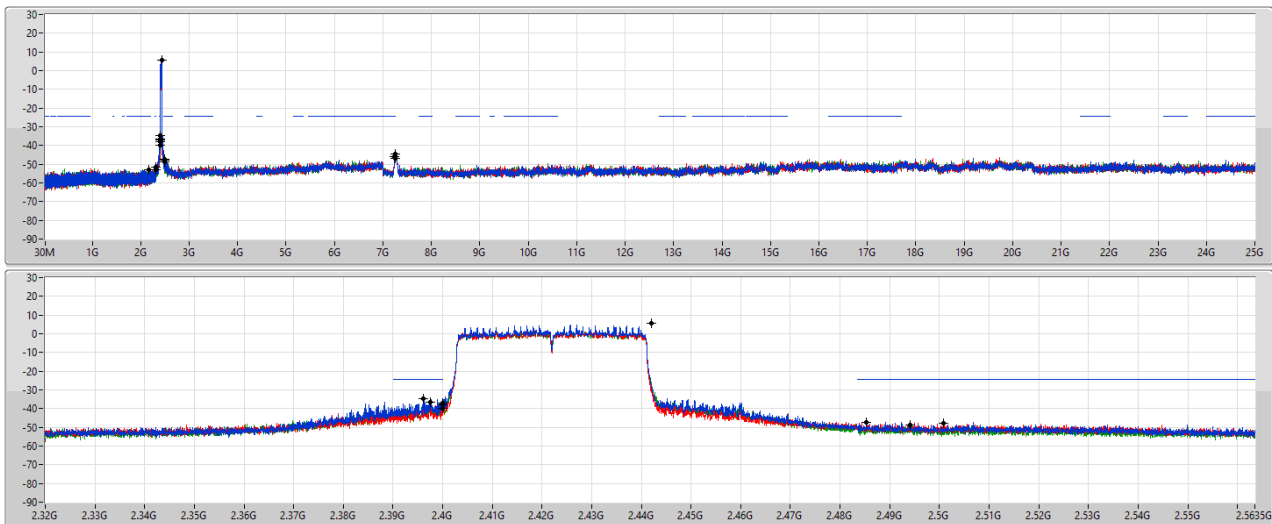
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44196G	14.01	-15.99	2.30728G	-52.91	2.39512G	-49.57	2.4835G	-42.58	2.48352G	-38.75	5.89498G	-46.81	1
2.44196G	14.01	-15.99	883.95M	-52.21	2.39022G	-50.01	2.4835G	-43.42	2.48368G	-39.56	17.65861G	-46.54	2
2.44196G	14.01	-15.99	1.62023G	-52.92	2.39972G	-49.13	2.4835G	-41.24	2.48362G	-39.40	6.78842G	-47.36	3

802.11ax HEW40_Nss1,(MCS0)_3TX

2422MHz

CSENdB

17/02/2022



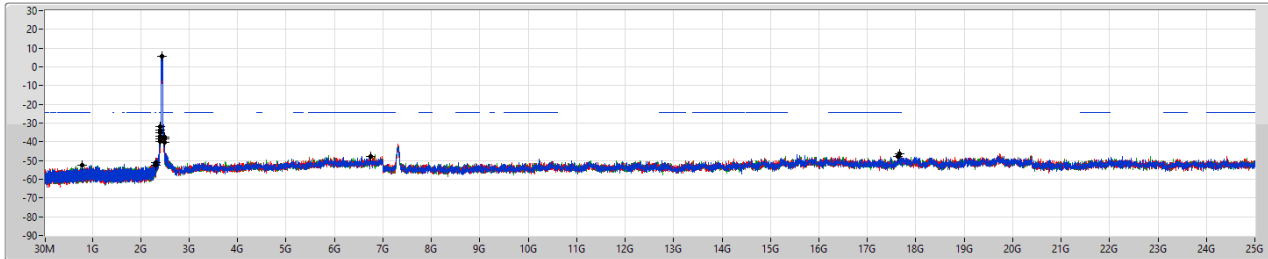
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	5.60	-24.40	2.16628G	-52.84	2.39608G	-34.92	2.4G	-37.94	2.4853G	-47.28	7.24712G	-44.64	1
2.442G	5.60	-24.40	2.30912G	-52.83	2.3976G	-36.39	2.4G	-36.89	2.5009G	-47.61	7.24431G	-45.94	2
2.442G	5.60	-24.40	2.3097G	-51.46	2.3976G	-36.44	2.4G	-40.01	2.49418G	-48.82	7.24992G	-46.80	3

802.11ax HEW40_Nss1,(MCS0)_3TX

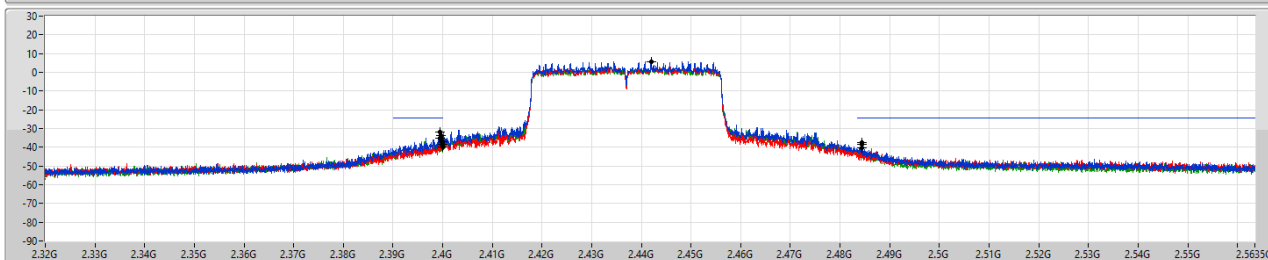
CSENdB

2437MHz

17/02/2022



Port 1
Port 2
Port 3



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

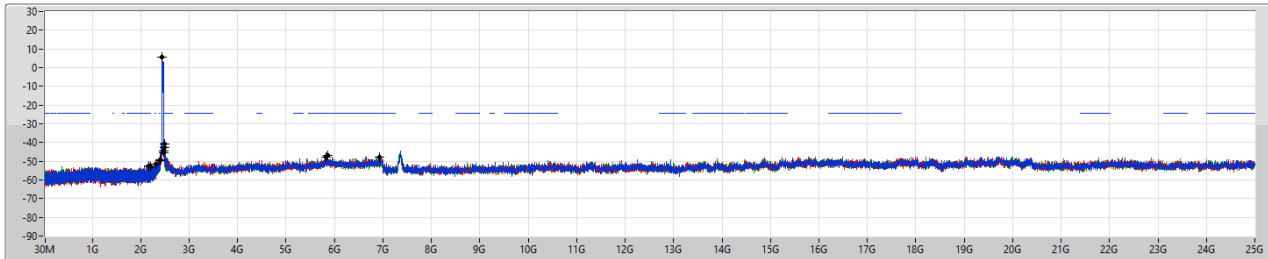
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	5.60	-24.40	2.30683G	-51.04	2.39956G	-33.77	2.4G	-38.30	2.48446G	-37.27	6.75632G	-47.79	1
2.442G	5.60	-24.40	2.3097G	-52.69	2.39948G	-35.10	2.4G	-39.74	2.48442G	-38.67	17.63522G	-47.73	2
2.442G	5.60	-24.40	789.14M	-52.33	2.39952G	-31.98	2.4G	-36.99	2.48442G	-40.52	17.66607G	-46.60	3

802.11ax HEW40_Nss1,(MCS0)_3TX

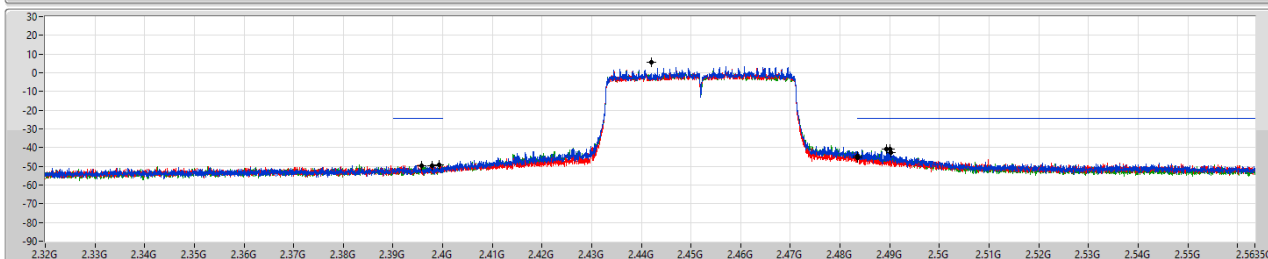
CSENdB

2452MHz

17/02/2022



Port 1
Port 2
Port 3



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	5.60	-24.40	2.30741G	-51.75	2.39572G	-49.59	2.4835G	-45.30	2.48942G	-40.92	6.9274G	-47.75	1
2.442G	5.60	-24.40	2.17287G	-52.27	2.39932G	-49.27	2.4835G	-45.62	2.49014G	-42.85	5.82801G	-47.76	2
2.442G	5.60	-24.40	2.19863G	-52.82	2.39792G	-49.63	2.4835G	-44.65	2.4901G	-41.00	5.86167G	-46.94	3



Radiated Emissions below 1GHz

Appendix F.1

Summary

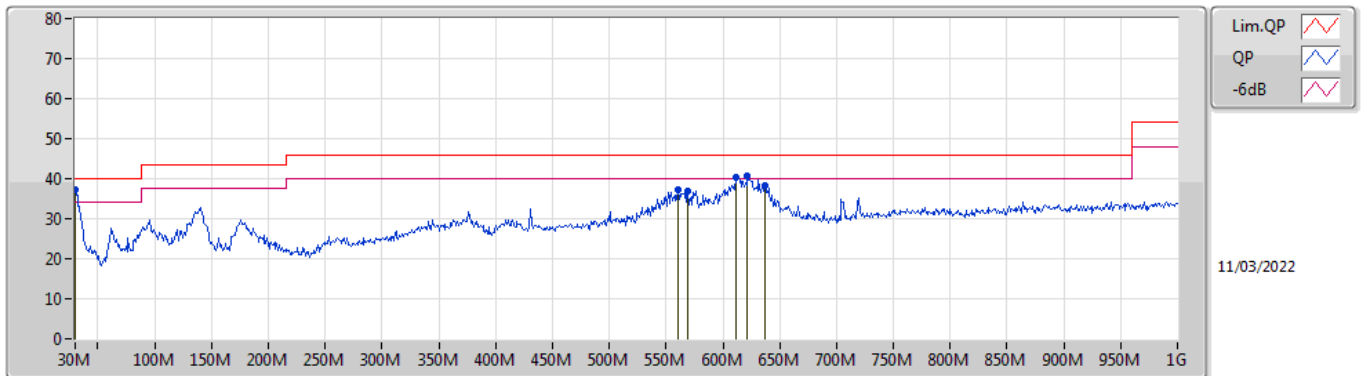
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	31.94M	39.84	40.00	-0.16	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	31.94M	39.84	40.00	-0.16	-3.46	3	Vertical	242	2.00	"Worst"	43.30	23.77	1.24	28.47
PK	49.4M	37.19	40.00	-2.81	-12.65	3	Vertical	222	2.00	-	49.84	14.52	1.31	28.48
PK	86.26M	30.59	40.00	-9.41	-13.01	3	Vertical	155	1.25	-	43.60	14.01	1.50	28.52
PK	88M	31.50	43.50	-12.00	-12.80	3	Vertical	88	1.25	-	44.30	14.21	1.50	28.51
PK	612.97M	36.54	46.00	-9.46	-1.24	3	Vertical	146	1.00	-	37.78	24.73	3.25	29.22
PK	628.49M	37.47	46.00	-8.53	-0.84	3	Vertical	185	1.00	-	38.31	25.08	3.31	29.23

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	30M	37.39	40.00	-2.61	-2.07	3	Horizontal	28	1.50	"Worst"	39.46	25.20	1.20	28.47
PK	560.59M	37.38	46.00	-8.62	-1.31	3	Horizontal	204	2.00	-	38.69	24.78	3.20	29.29
PK	569.32M	36.82	46.00	-9.18	-1.42	3	Horizontal	204	2.00	-	38.24	24.65	3.20	29.27
PK	612M	40.38	46.00	-5.62	-1.25	3	Horizontal	205	1.50	-	41.63	24.71	3.25	29.21
PK	621.7M	40.68	46.00	-5.32	-0.99	3	Horizontal	196	1.50	-	41.67	24.95	3.29	29.23
PK	637.22M	38.23	46.00	-7.77	-0.79	3	Horizontal	10	1.50	-	39.02	25.10	3.35	29.24

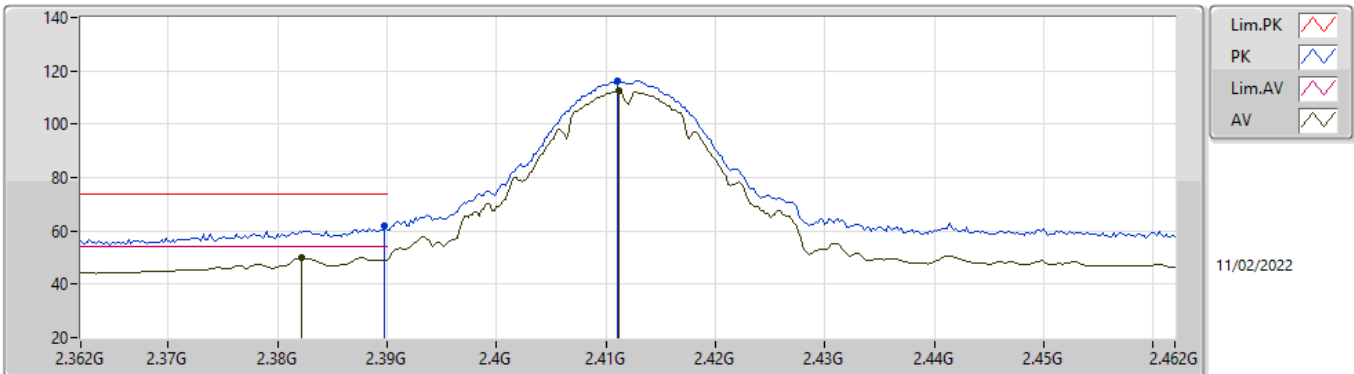


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_3TX	Pass	PK	2.4846G	73.97	74.00	-0.03	3	Horizontal	246	2.95	-

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

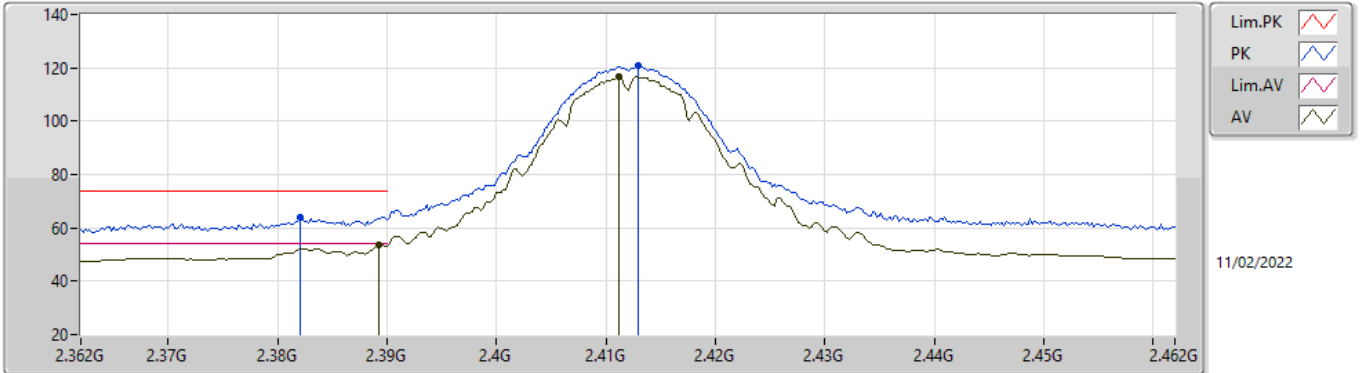


EUT Y_3TX
Setting 100
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	61.69	74.00	-12.31	31.42	3	Vertical	359	2.88	-	27.48	2.79	-
AV	2.3822G	50.13	54.00	-3.87	19.88	3	Vertical	359	2.88	-	27.46	2.79	-
PK	2.411G	116.40	Inf	-Inf	86.07	3	Vertical	359	2.88	-	27.52	2.81	-
AV	2.4112G	112.57	Inf	-Inf	82.24	3	Vertical	359	2.88	-	27.52	2.81	-

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

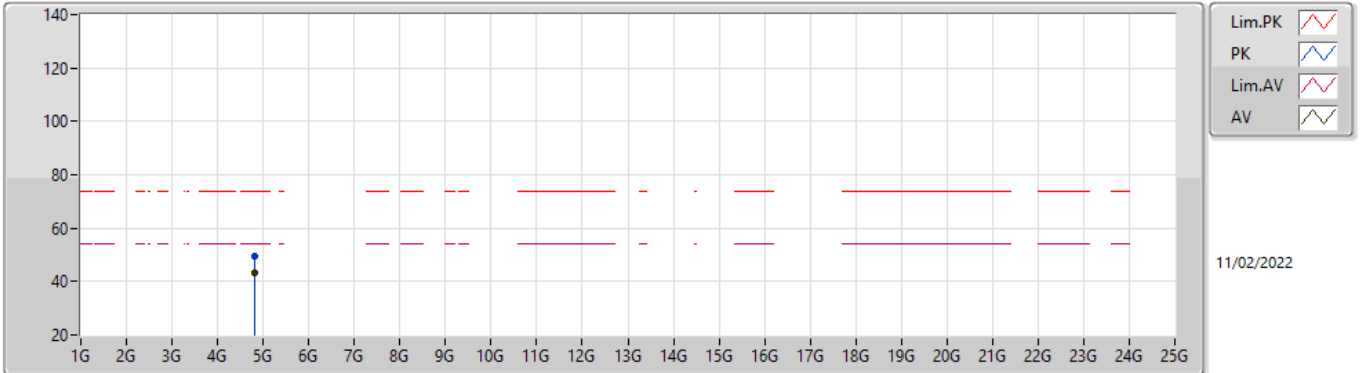


EUT Y_3TX
Setting 100
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.382G	63.89	74.00	-10.11	33.64	3	Horizontal	285	2.60	-	27.46	2.79	-	
AV	2.3892G	53.82	54.00	-0.18	23.55	3	Horizontal	285	2.60	-	27.48	2.79	-	
PK	2.413G	120.77	Inf	-Inf	90.43	3	Horizontal	285	2.60	-	27.53	2.81	-	
AV	2.4112G	116.77	Inf	-Inf	86.44	3	Horizontal	285	2.60	-	27.52	2.81	-	

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

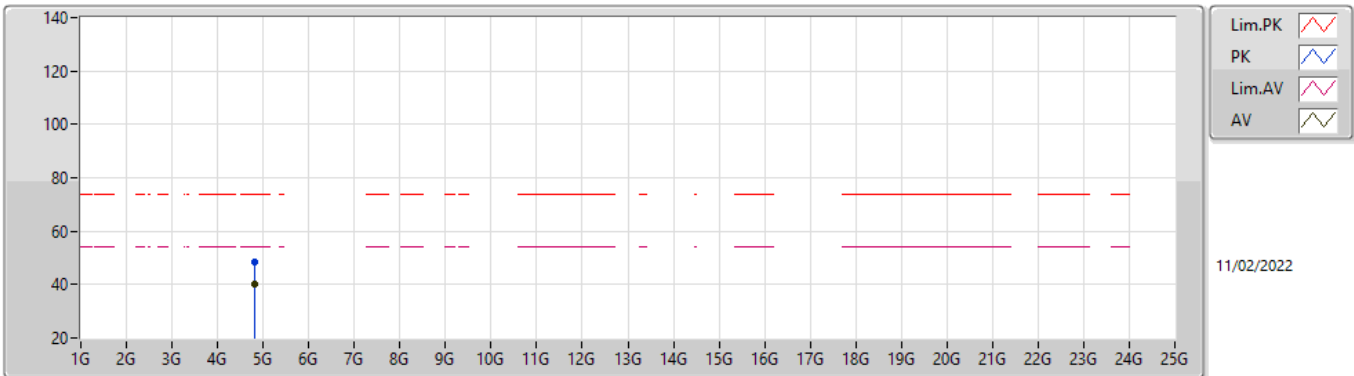


EUT Y_3TX
Setting 100
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82392G	49.44	74.00	-24.56	45.18	3	Vertical	358	1.99	-	32.70	4.81	33.25
AV	4.82397G	43.08	54.00	-10.92	38.82	3	Vertical	358	1.99	-	32.70	4.81	33.25

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

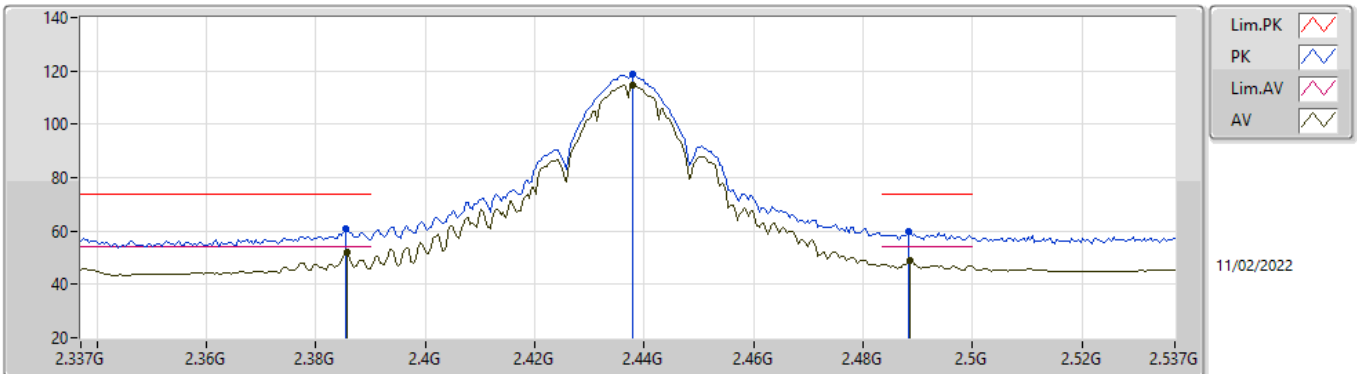


EUT Y_3TX
Setting 100
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82405G	48.38	74.00	-25.62	44.12	3	Horizontal	303	1.02	-	32.70	4.81	33.25
AV	4.82396G	40.19	54.00	-13.81	35.93	3	Horizontal	303	1.02	-	32.70	4.81	33.25

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

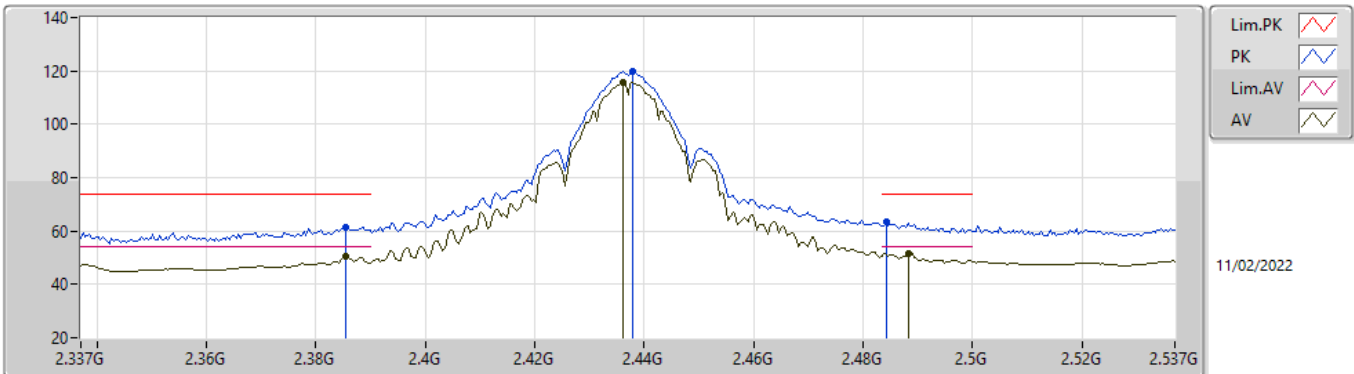


EUT_V_3TX
Setting 108
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3854G	60.61	74.00	-13.39	30.35	3	Vertical	322	2.92	-	27.47	2.79	-
AV	2.3858G	52.04	54.00	-1.96	21.78	3	Vertical	322	2.92	-	27.47	2.79	-
PK	2.4378G	118.71	Inf	-Inf	88.31	3	Vertical	322	2.92	-	27.58	2.82	-
AV	2.4378G	114.83	Inf	-Inf	84.43	3	Vertical	322	2.92	-	27.58	2.82	-
PK	2.4882G	60.00	74.00	-14.00	29.33	3	Vertical	322	2.92	-	27.83	2.84	-
AV	2.4886G	48.92	54.00	-5.08	18.25	3	Vertical	322	2.92	-	27.83	2.84	-

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

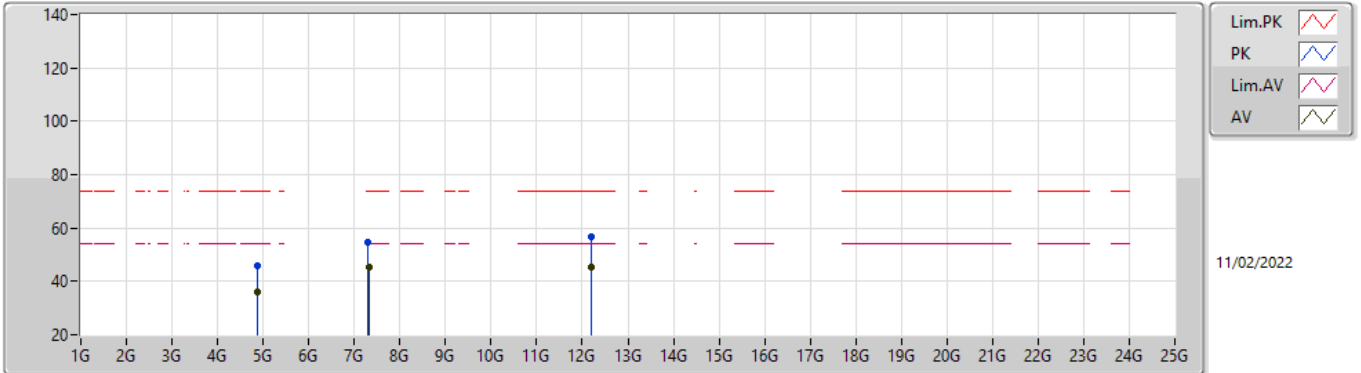


EUT_Y_3TX
Setting 108
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3854G	61.40	74.00	-12.60	31.14	3	Horizontal	266	2.68	-	27.47	2.79	-
AV	2.3854G	50.77	54.00	-3.23	20.51	3	Horizontal	266	2.68	-	27.47	2.79	-
PK	2.4378G	119.76	Inf	-Inf	89.36	3	Horizontal	266	2.68	-	27.58	2.82	-
AV	2.4362G	115.91	Inf	-Inf	85.52	3	Horizontal	266	2.68	-	27.57	2.82	-
PK	2.4842G	63.33	74.00	-10.67	32.68	3	Horizontal	266	2.68	-	27.81	2.84	-
AV	2.4882G	51.66	54.00	-2.34	20.99	3	Horizontal	266	2.68	-	27.83	2.84	-

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

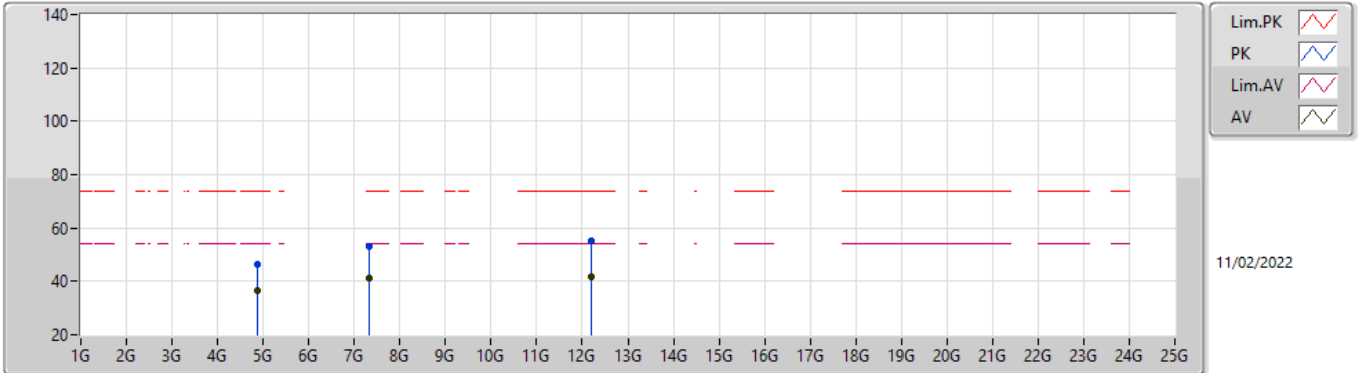


EUT_Y_3TX
Setting 108
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8711G	46.07	74.00	-27.93	41.58	3	Vertical	360	2.37	-	32.88	4.84	33.23
AV	4.87402G	35.90	54.00	-18.10	31.39	3	Vertical	360	2.37	-	32.90	4.84	33.23
PK	7.30998G	54.73	74.00	-19.27	44.84	3	Vertical	297	2.86	-	37.50	6.05	33.66
AV	7.31174G	45.14	54.00	-8.86	35.24	3	Vertical	297	2.86	-	37.50	6.06	33.66
PK	12.18398G	56.91	74.00	-17.09	44.02	3	Vertical	229	1.85	-	38.82	8.96	34.89
AV	12.18438G	45.10	54.00	-8.90	32.21	3	Vertical	229	1.85	-	38.82	8.96	34.89

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

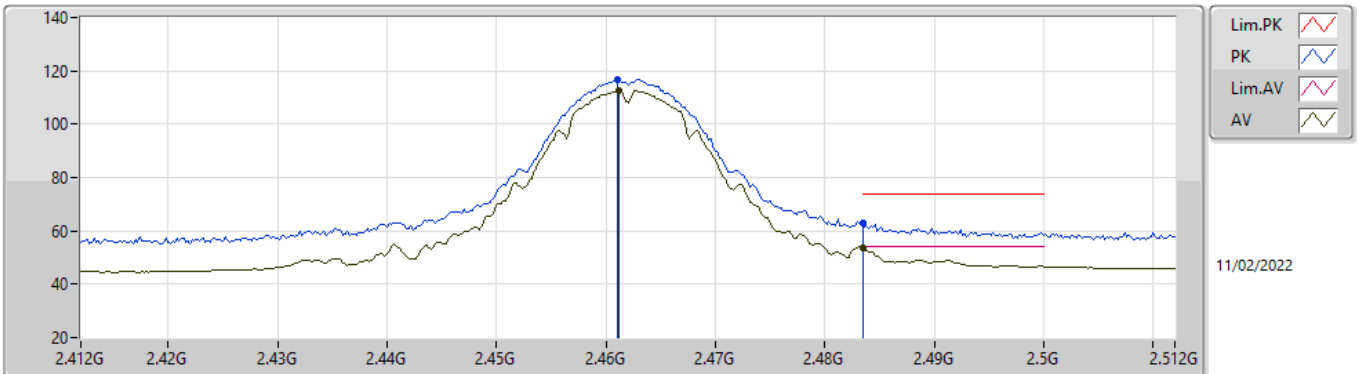


EUT_Y_3TX
Setting 108
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.87406G	46.48	74.00	-27.52	41.97	3	Horizontal	269	2.57	-	32.90	4.84	33.23	
AV	4.87398G	36.76	54.00	-17.24	32.25	3	Horizontal	269	2.57	-	32.90	4.84	33.23	
PK	7.31356G	53.00	74.00	-21.00	43.11	3	Horizontal	188	1.89	-	37.50	6.06	33.67	
AV	7.31182G	41.32	54.00	-12.68	31.42	3	Horizontal	188	1.89	-	37.50	6.06	33.66	
PK	12.1836G	54.93	74.00	-19.07	42.04	3	Horizontal	38	1.80	-	38.82	8.96	34.89	
AV	12.18406G	41.47	54.00	-12.53	28.58	3	Horizontal	38	1.80	-	38.82	8.96	34.89	

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

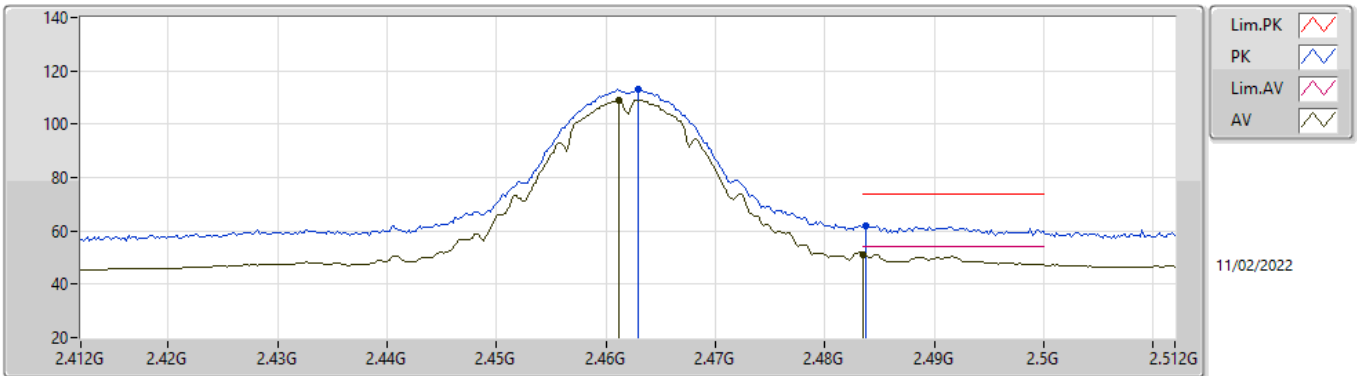


EUT Y_3TX
Setting 98
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.461G	116.72	Inf	-Inf	86.22	3	Vertical	0	2.80	-	27.67	2.83	-	
AV	2.4612G	112.78	Inf	-Inf	82.28	3	Vertical	0	2.80	-	27.67	2.83	-	
PK	2.4835G	62.80	74.00	-11.20	32.16	3	Vertical	0	2.80	-	27.80	2.84	-	
AV	2.4835G	53.83	54.00	-0.17	23.19	3	Vertical	0	2.80	-	27.80	2.84	-	

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

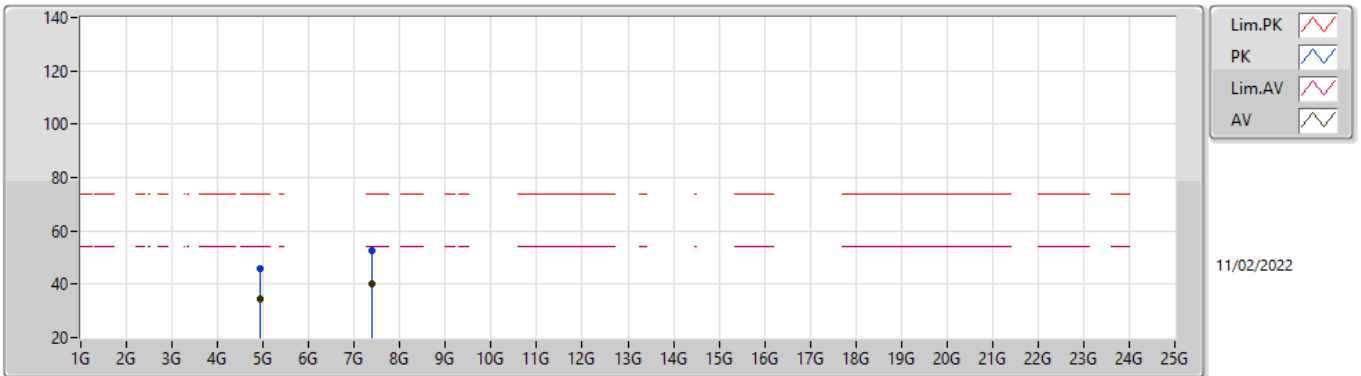


EUT Y_3TX
Setting 98
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.463G	113.13	Inf	-Inf	82.62	3	Horizontal	307	1.05	-	27.68	2.83	-	
AV	2.4612G	109.06	Inf	-Inf	78.56	3	Horizontal	307	1.05	-	27.67	2.83	-	
PK	2.4838G	61.89	74.00	-12.11	31.25	3	Horizontal	307	1.05	-	27.80	2.84	-	
AV	2.4835G	51.21	54.00	-2.79	20.57	3	Horizontal	307	1.05	-	27.80	2.84	-	

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

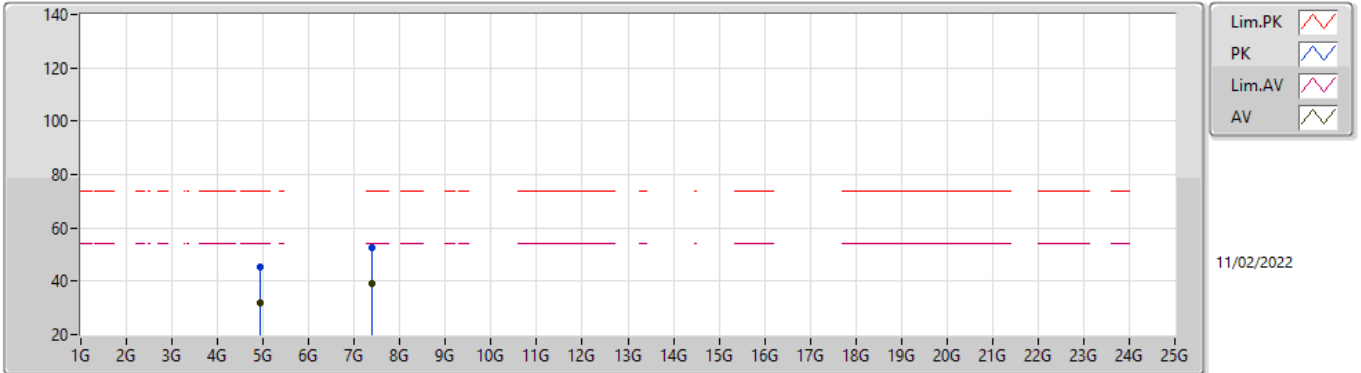


EUT Y_3TX
Setting 98
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92412G	45.73	74.00	-28.27	41.02	3	Vertical	161	1.24	-	33.05	4.86	33.20
AV	4.92394G	34.23	54.00	-19.77	29.52	3	Vertical	161	1.24	-	33.05	4.86	33.20
PK	7.39012G	52.84	74.00	-21.16	42.84	3	Vertical	47	2.85	-	37.66	6.10	33.76
AV	7.38512G	40.12	54.00	-13.88	30.14	3	Vertical	47	2.85	-	37.64	6.09	33.75

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

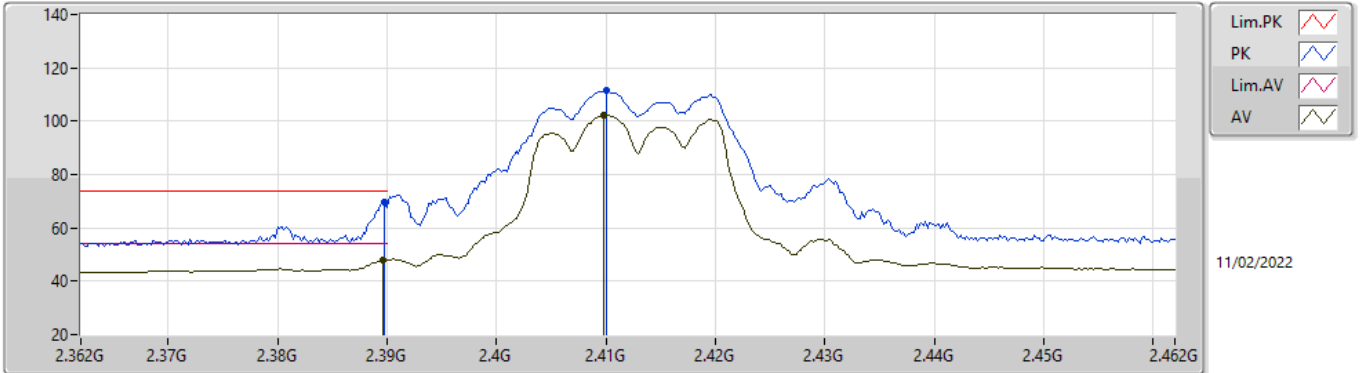


EUT Y_3TX
Setting 98
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.93498G	45.46	74.00	-28.54	40.71	3	Horizontal	53	2.19	-	33.07	4.87	33.19
AV	4.92388G	31.91	54.00	-22.09	27.20	3	Horizontal	53	2.19	-	33.05	4.86	33.20
PK	7.38432G	52.50	74.00	-21.50	42.52	3	Horizontal	34	2.76	-	37.64	6.09	33.75
AV	7.3851G	39.23	54.00	-14.77	29.25	3	Horizontal	34	2.76	-	37.64	6.09	33.75

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

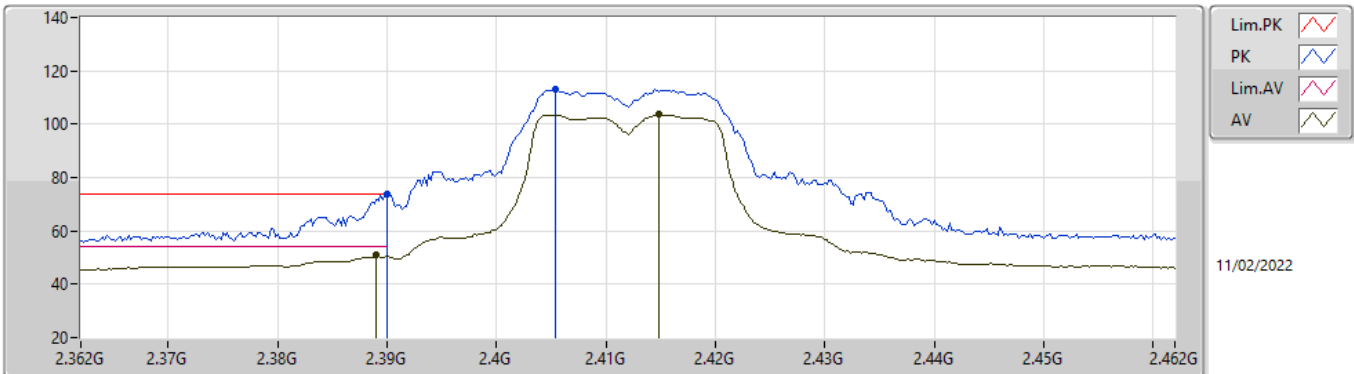


EUT Y_3TX
Setting 75
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	69.90	74.00	-4.10	39.63	3	Vertical	360	2.56	-	27.48	2.79	-
AV	2.3896G	47.96	54.00	-6.04	17.69	3	Vertical	360	2.56	-	27.48	2.79	-
PK	2.41G	111.58	Inf	-Inf	81.26	3	Vertical	360	2.56	-	27.52	2.80	-
AV	2.4098G	102.28	Inf	-Inf	71.96	3	Vertical	360	2.56	-	27.52	2.80	-

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

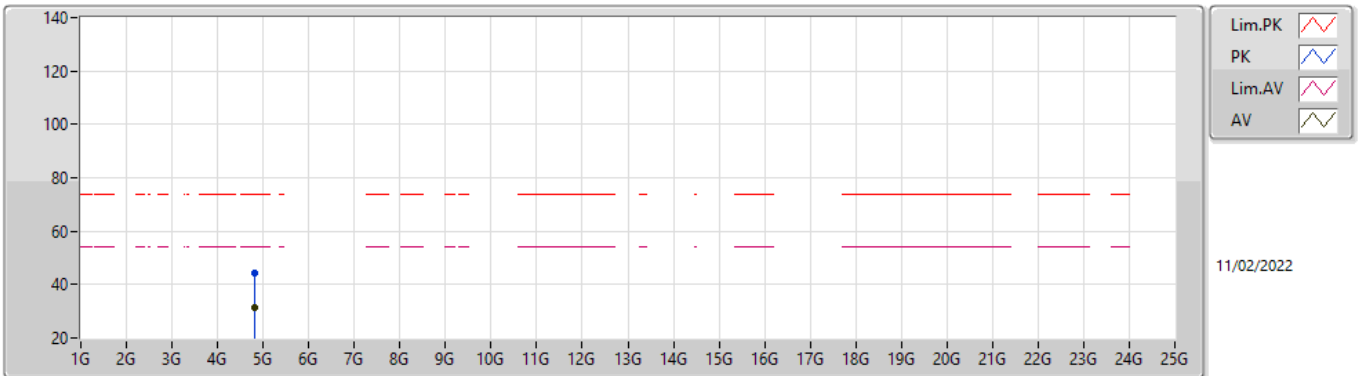


EUT Y_3TX
Setting 75
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.39G	73.94	74.00	-0.06	43.67	3	Horizontal	288	2.10	-	27.48	2.79	-	
AV	2.389G	50.82	54.00	-3.18	20.55	3	Horizontal	288	2.10	-	27.48	2.79	-	
PK	2.4054G	112.91	Inf	-Inf	82.60	3	Horizontal	288	2.10	-	27.51	2.80	-	
AV	2.4148G	103.57	Inf	-Inf	73.23	3	Horizontal	288	2.10	-	27.53	2.81	-	

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

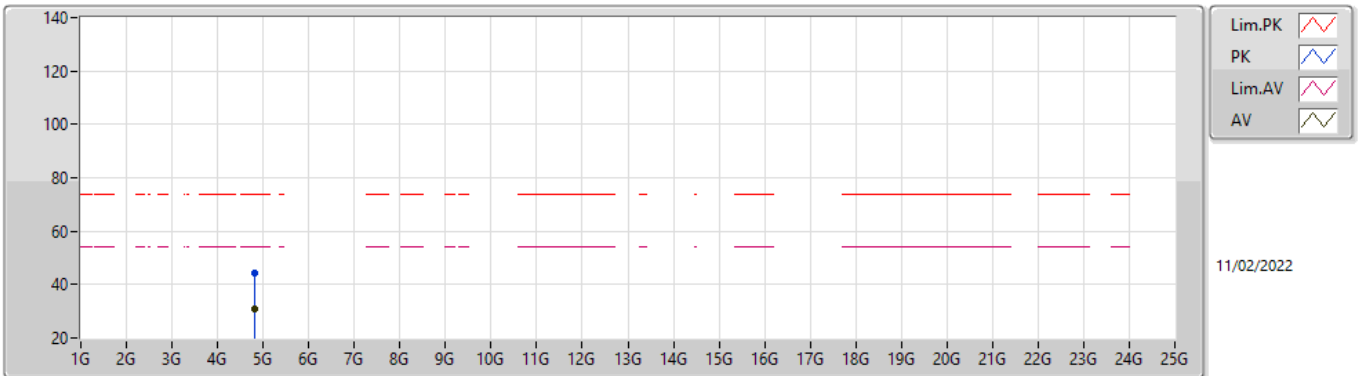


EUT Y_3TX
Setting 75
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82402G	44.37	74.00	-29.63	40.11	3	Vertical	349	1.80	-	32.70	4.81	33.25
AV	4.82368G	31.13	54.00	-22.87	26.88	3	Vertical	349	1.80	-	32.69	4.81	33.25

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

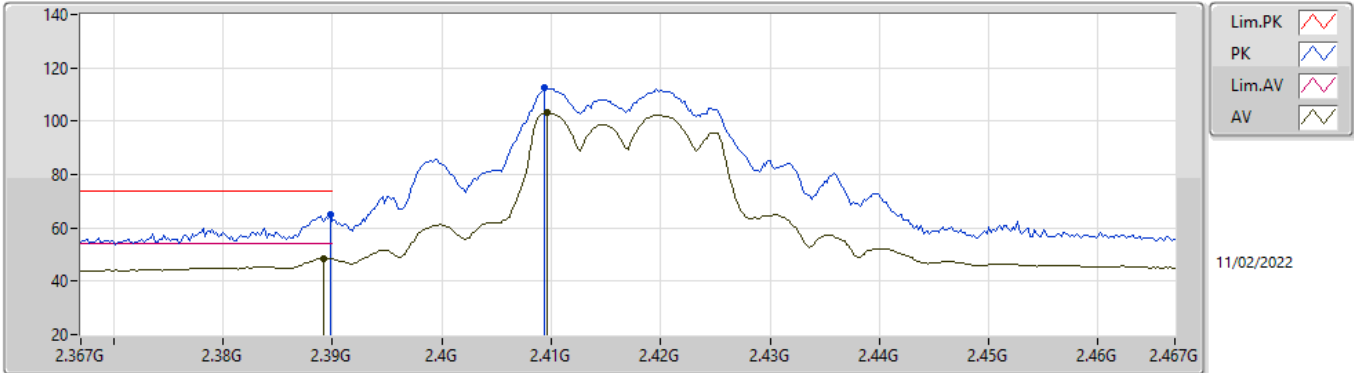


EUT Y_3TX
Setting 75
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82358G	44.29	74.00	-29.71	40.04	3	Horizontal	0	1.79	-	32.69	4.81	33.25
AV	4.8252G	30.99	54.00	-23.01	26.73	3	Horizontal	0	1.79	-	32.70	4.81	33.25

802.11g_Nss1,(6Mbps)_3TX

2417MHz_TX

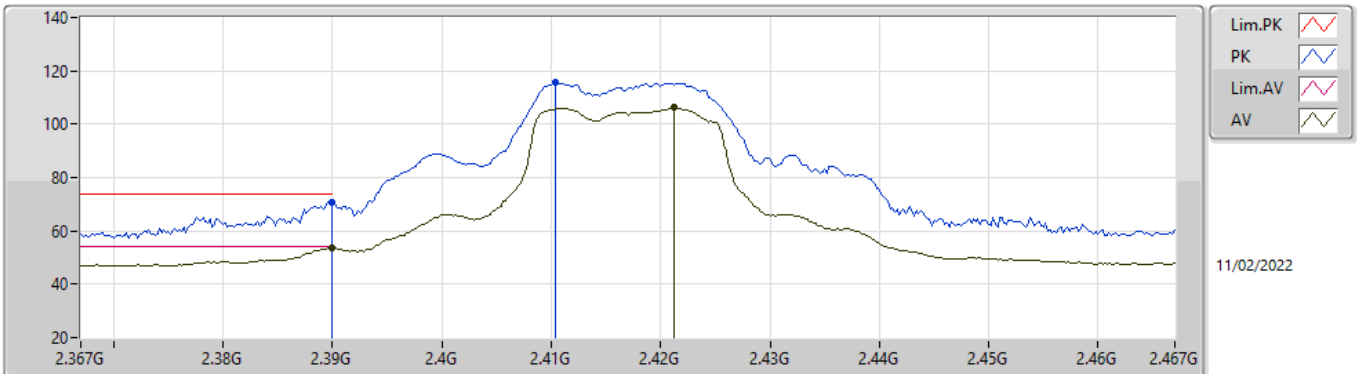


EUT Y_3TX
Setting 81
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3898G	64.77	74.00	-9.23	34.50	3	Vertical	360	2.88	-	27.48	2.79	-	
AV	2.3892G	48.69	54.00	-5.31	18.42	3	Vertical	360	2.88	-	27.48	2.79	-	
PK	2.4094G	112.42	Inf	-Inf	82.10	3	Vertical	360	2.88	-	27.52	2.80	-	
AV	2.4096G	103.18	Inf	-Inf	72.86	3	Vertical	360	2.88	-	27.52	2.80	-	

802.11g_Nss1,(6Mbps)_3TX

2417MHz_TX

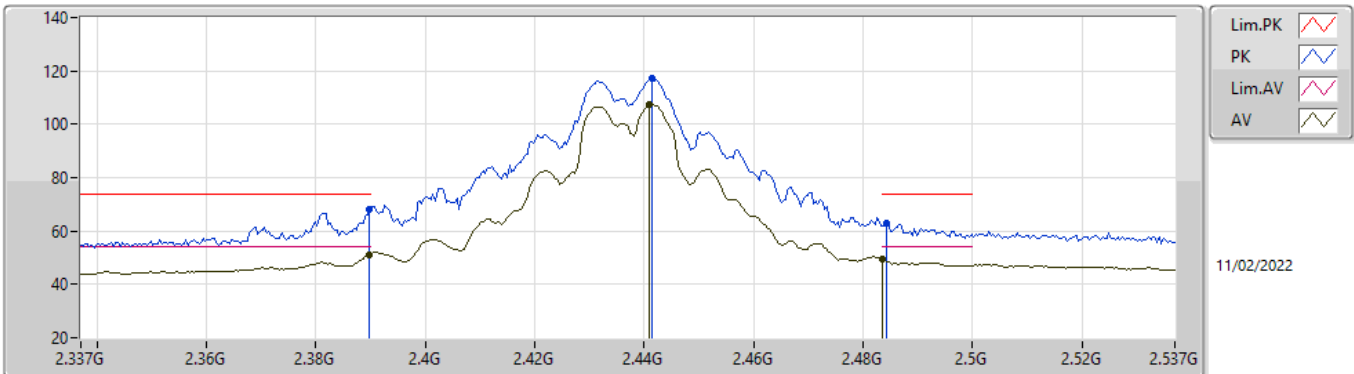


EUT Y_3TX
Setting 81
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.39G	70.70	74.00	-3.30	40.43	3	Horizontal	272	2.72	-	27.48	2.79	-	
AV	2.39G	53.85	54.00	-0.15	23.58	3	Horizontal	272	2.72	-	27.48	2.79	-	
PK	2.4104G	115.58	Inf	-Inf	85.25	3	Horizontal	272	2.72	-	27.52	2.81	-	
AV	2.4212G	106.45	Inf	-Inf	76.10	3	Horizontal	272	2.72	-	27.54	2.81	-	

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

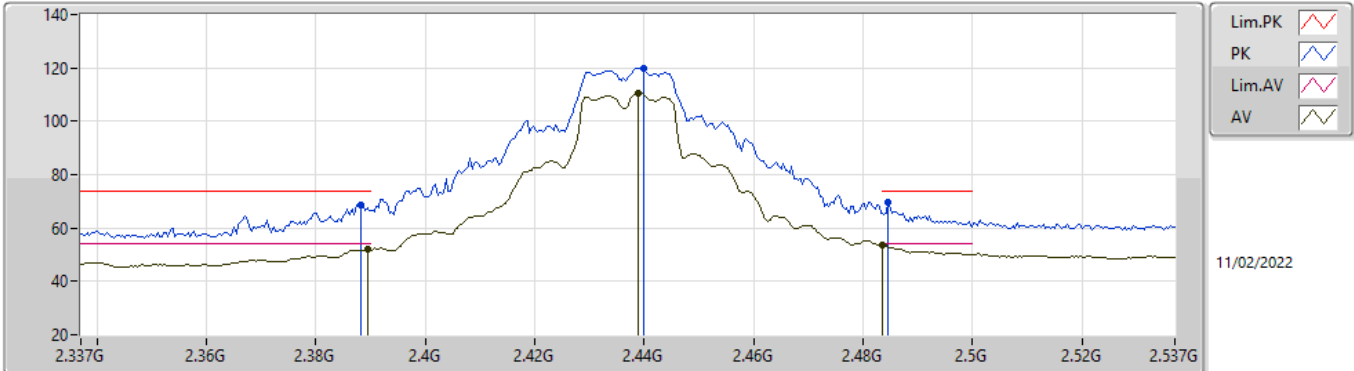


EUT_Y_3TX
Setting 98
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	67.98	74.00	-6.02	37.71	3	Vertical	338	2.77	-	27.48	2.79	-
AV	2.3898G	51.17	54.00	-2.83	20.90	3	Vertical	338	2.77	-	27.48	2.79	-
PK	2.4414G	117.03	Inf	-Inf	86.63	3	Vertical	338	2.77	-	27.58	2.82	-
AV	2.441G	107.53	Inf	-Inf	77.13	3	Vertical	338	2.77	-	27.58	2.82	-
PK	2.4842G	62.93	74.00	-11.07	32.28	3	Vertical	338	2.77	-	27.81	2.84	-
AV	2.4835G	49.70	54.00	-4.30	19.06	3	Vertical	338	2.77	-	27.80	2.84	-

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

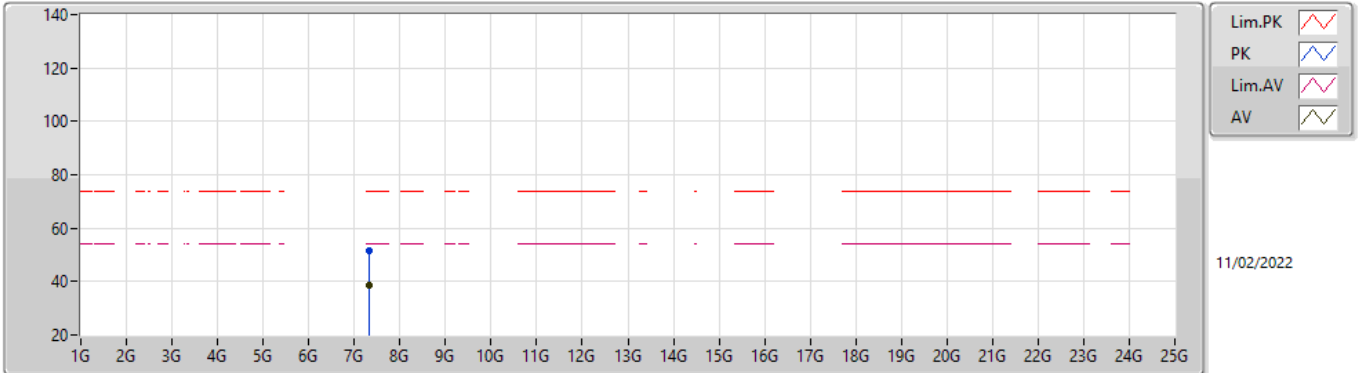


EUT_Y_3TX
Setting 98
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	68.69	74.00	-5.31	38.42	3	Horizontal	269	2.64	-	27.48	2.79	-
AV	2.3894G	51.96	54.00	-2.04	21.69	3	Horizontal	269	2.64	-	27.48	2.79	-
PK	2.4398G	119.84	Inf	-Inf	89.44	3	Horizontal	269	2.64	-	27.58	2.82	-
AV	2.439G	110.58	Inf	-Inf	80.18	3	Horizontal	269	2.64	-	27.58	2.82	-
PK	2.4846G	69.81	74.00	-4.19	39.16	3	Horizontal	269	2.64	-	27.81	2.84	-
AV	2.4835G	53.84	54.00	-0.16	23.20	3	Horizontal	269	2.64	-	27.80	2.84	-

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

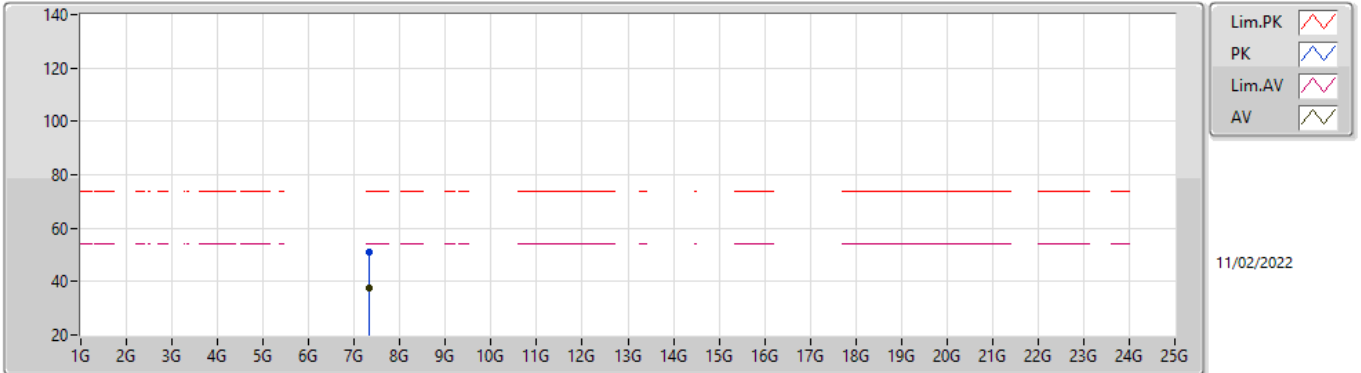


EUT Y_3TX
Setting 98
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	7.3122G	51.67	74.00	-22.33	41.77	3	Vertical	327	1.72	-	37.50	6.06	33.66
AV	7.31372G	38.45	54.00	-15.55	28.56	3	Vertical	327	1.72	-	37.50	6.06	33.67

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

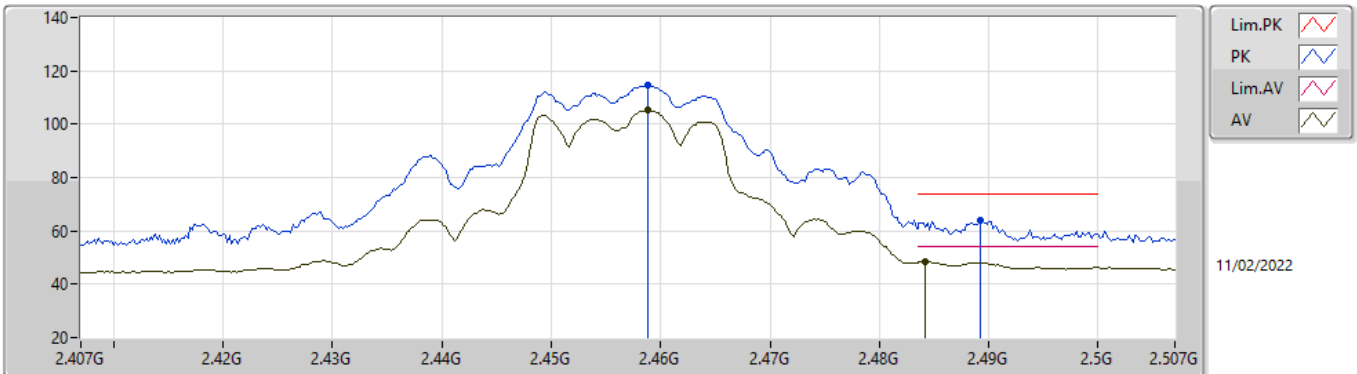


EUT Y_3TX
Setting 98
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	7.31536G	50.83	74.00	-23.17	40.94	3	Horizontal	72	1.62	-	37.50	6.06	33.67
AV	7.31608G	37.72	54.00	-16.28	27.83	3	Horizontal	72	1.62	-	37.50	6.06	33.67

802.11g_Nss1,(6Mbps)_3TX

2457MHz_TX

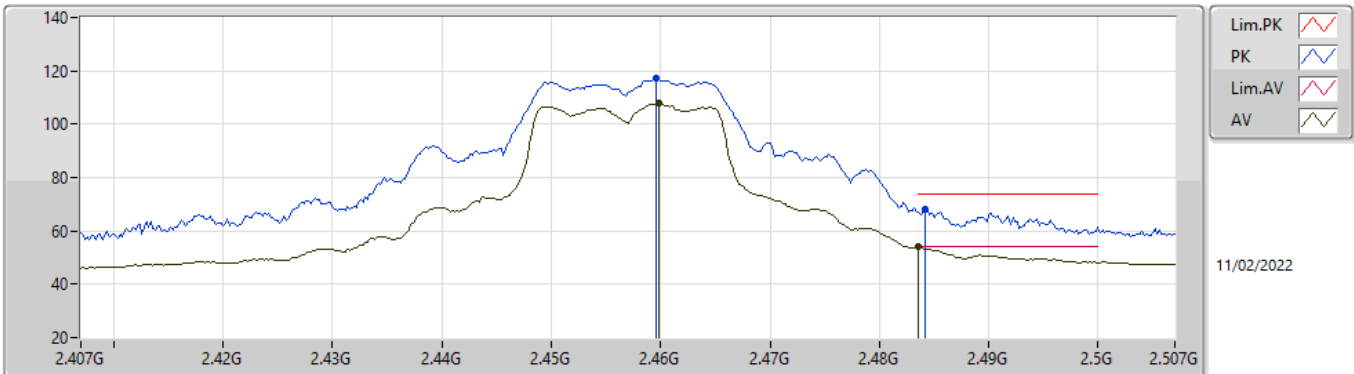


EUT_Y_3TX
Setting 85
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4588G	114.60	Inf	-Inf	84.12	3	Vertical	352	2.81	-	27.65	2.83	-	
AV	2.4588G	105.19	Inf	-Inf	74.71	3	Vertical	352	2.81	-	27.65	2.83	-	
PK	2.4892G	64.08	74.00	-9.92	33.40	3	Vertical	352	2.81	-	27.84	2.84	-	
AV	2.4842G	48.40	54.00	-5.60	17.75	3	Vertical	352	2.81	-	27.81	2.84	-	

802.11g_Nss1,(6Mbps)_3TX

2457MHz_TX

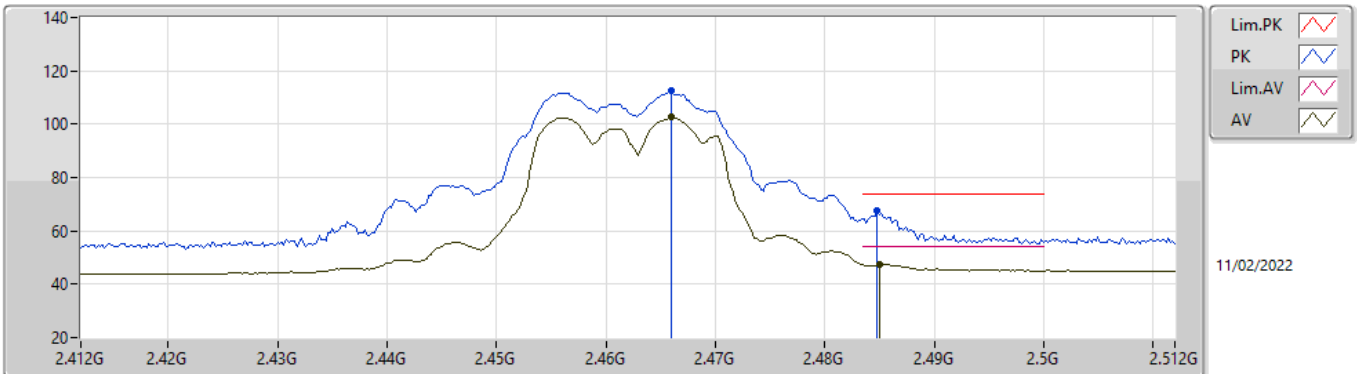


EUT Y_3TX
Setting 85
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4596G	117.05	Inf	-Inf	86.56	3	Horizontal	267	2.95	-	27.66	2.83	-	
AV	2.4598G	107.82	Inf	-Inf	77.33	3	Horizontal	267	2.95	-	27.66	2.83	-	
PK	2.4842G	67.93	74.00	-6.07	37.28	3	Horizontal	267	2.95	-	27.81	2.84	-	
AV	2.4835G	53.93	54.00	-0.07	23.29	3	Horizontal	267	2.95	-	27.80	2.84	-	

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

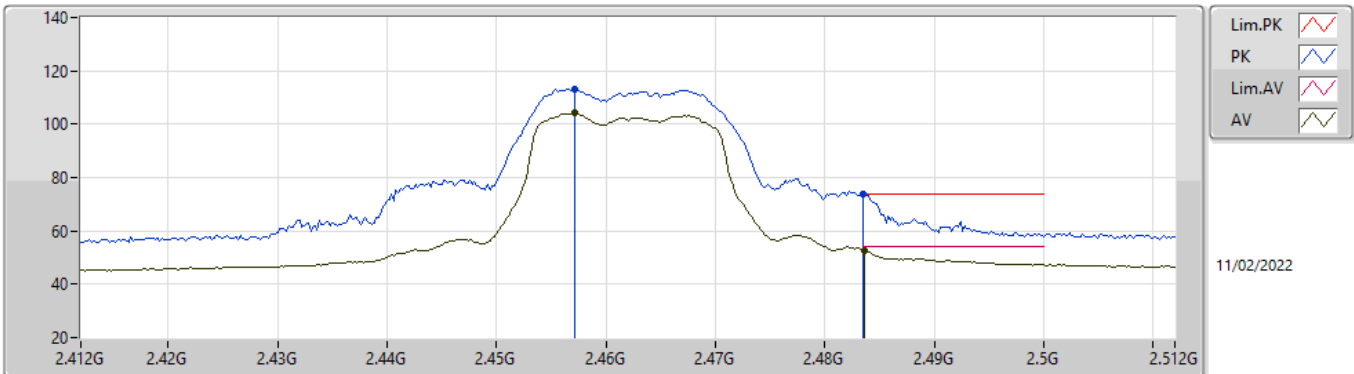


EUT Y_3TX
Setting 73
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.466G	112.34	Inf	-Inf	81.81	3	Vertical	356	2.81	-	27.70	2.83	-
AV	2.466G	102.61	Inf	-Inf	72.08	3	Vertical	356	2.81	-	27.70	2.83	-
PK	2.4848G	67.74	74.00	-6.26	37.09	3	Vertical	356	2.81	-	27.81	2.84	-
AV	2.485G	47.37	54.00	-6.63	16.72	3	Vertical	356	2.81	-	27.81	2.84	-

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

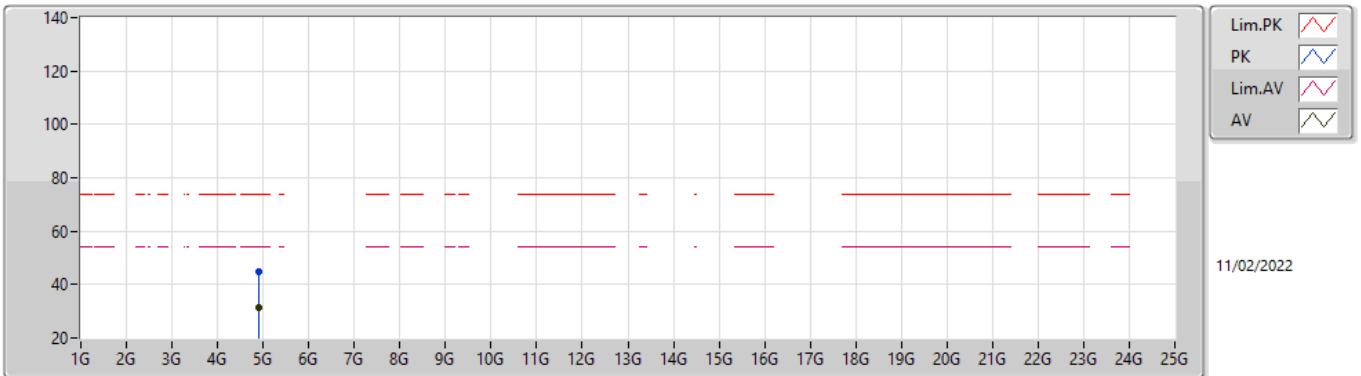


EUT Y_3TX
Setting 73
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4572G	113.33	Inf	-Inf	82.86	3	Horizontal	272	2.34	-	27.64	2.83	-	
AV	2.4572G	104.10	Inf	-Inf	73.63	3	Horizontal	272	2.34	-	27.64	2.83	-	
PK	2.4835G	73.77	74.00	-0.23	43.13	3	Horizontal	272	2.34	-	27.80	2.84	-	
AV	2.4836G	52.62	54.00	-1.38	21.98	3	Horizontal	272	2.34	-	27.80	2.84	-	

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

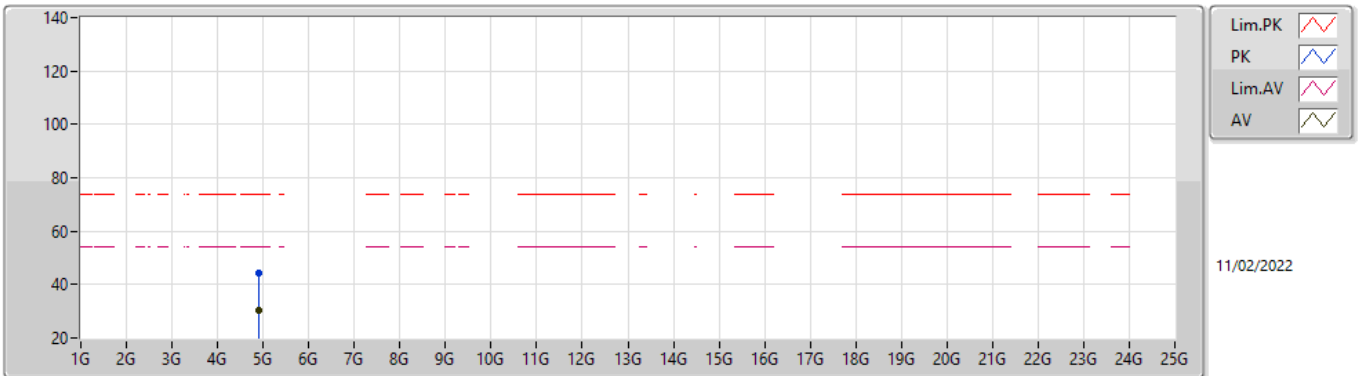


EUT Y_3TX
Setting 73
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9056G	44.91	74.00	-29.09	40.26	3	Vertical	252	1.01	-	33.01	4.85	33.21
AV	4.906G	31.29	54.00	-22.71	26.64	3	Vertical	252	1.01	-	33.01	4.85	33.21

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

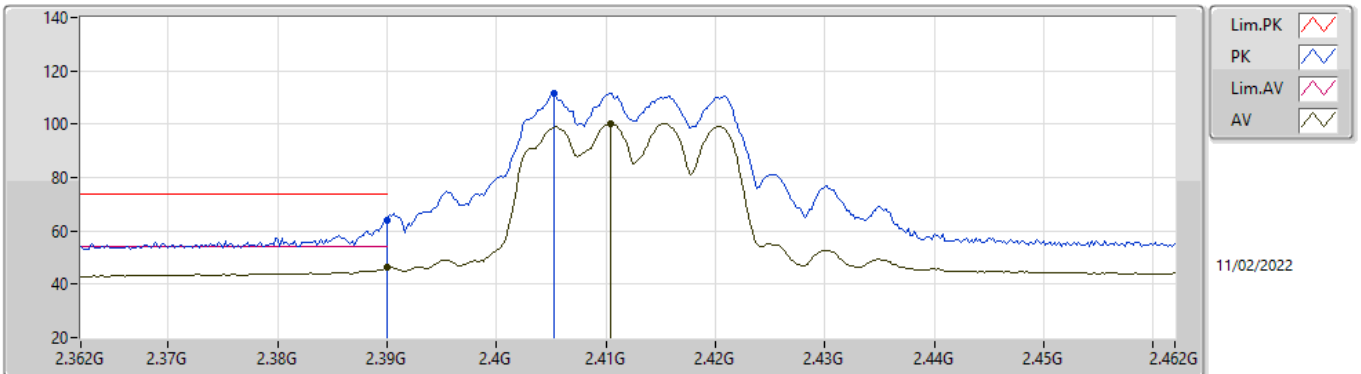


EUT Y_3TX
Setting 73
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9178G	44.46	74.00	-29.54	39.76	3	Horizontal	290	1.15	-	33.04	4.86	33.20
AV	4.9058G	30.23	54.00	-23.77	25.58	3	Horizontal	290	1.15	-	33.01	4.85	33.21

802.11ax HEW20_Nss1,(MCS0)_3TX

2412MHz_TX

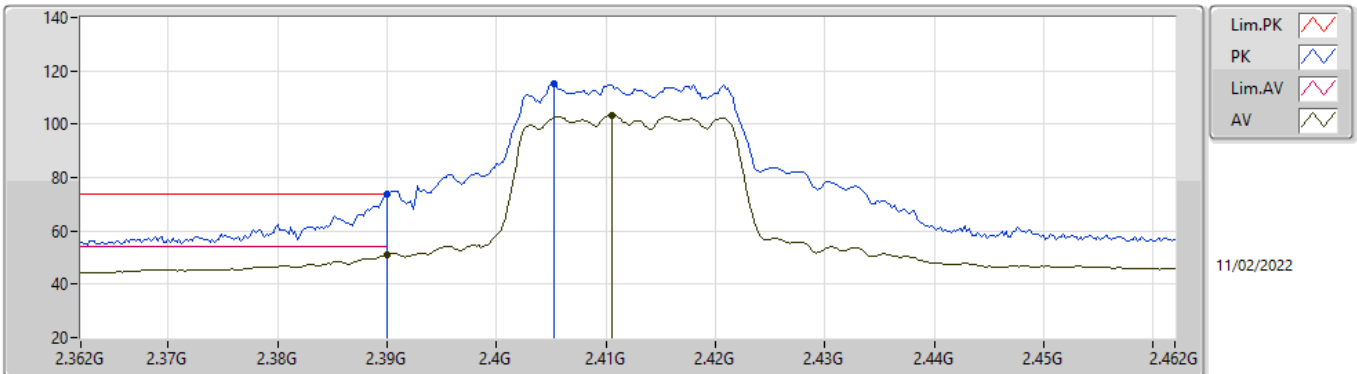


EUT Y_3TX
Setting 70
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.39G	63.84	74.00	-10.16	33.57	3	Vertical	358	2.56	-	27.48	2.79	-	
AV	2.39G	46.29	54.00	-7.71	16.02	3	Vertical	358	2.56	-	27.48	2.79	-	
PK	2.4052G	111.62	Inf	-Inf	81.31	3	Vertical	358	2.56	-	27.51	2.80	-	
AV	2.4104G	100.19	Inf	-Inf	69.86	3	Vertical	358	2.56	-	27.52	2.81	-	

802.11ax HEW20_Nss1,(MCS0)_3TX

2412MHz_TX

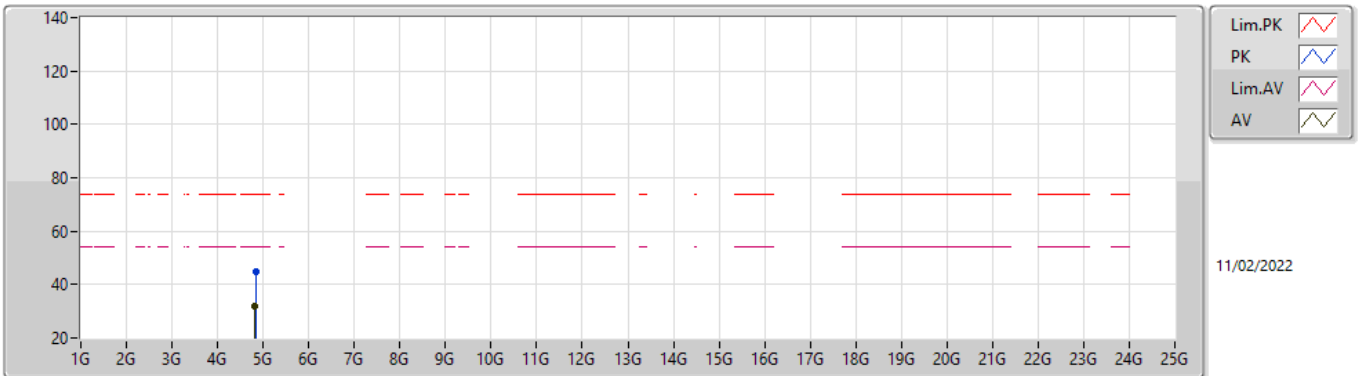


EUT Y_3TX
Setting 70
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.39G	73.81	74.00	-0.19	43.54	3	Horizontal	268	2.70	-	27.48	2.79	-	
AV	2.39G	51.14	54.00	-2.86	20.87	3	Horizontal	268	2.70	-	27.48	2.79	-	
PK	2.4052G	115.39	Inf	-Inf	85.08	3	Horizontal	268	2.70	-	27.51	2.80	-	
AV	2.4106G	103.36	Inf	-Inf	73.03	3	Horizontal	268	2.70	-	27.52	2.81	-	

802.11ax HEW20_Nss1,(MCS0)_3TX

2412MHz_TX

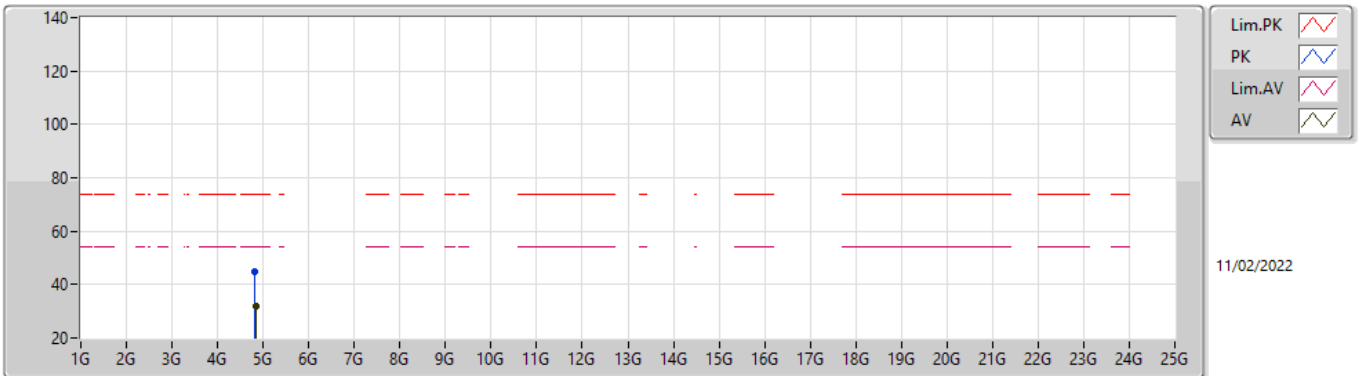


EUT Y_3TX
Setting 70
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8456G	44.91	74.00	-29.09	40.55	3	Vertical	360	1.80	-	32.78	4.82	33.24
AV	4.825G	31.93	54.00	-22.07	27.67	3	Vertical	360	1.80	-	32.70	4.81	33.25

802.11ax HEW20_Nss1,(MCS0)_3TX

2412MHz_TX

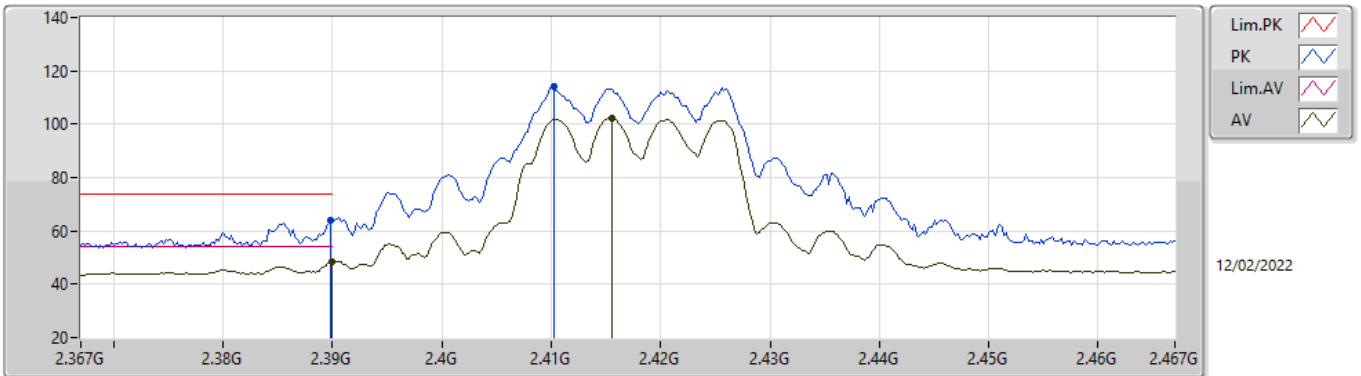


EUT Y_3TX
Setting 70
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.81734G	44.60	74.00	-29.40	40.37	3	Horizontal	160	1.78	-	32.67	4.81	33.25
AV	4.83648G	31.78	54.00	-22.22	27.46	3	Horizontal	160	1.78	-	32.75	4.82	33.25

802.11ax HEW20_Nss1,(MCS0)_3TX

2417MHz_TX

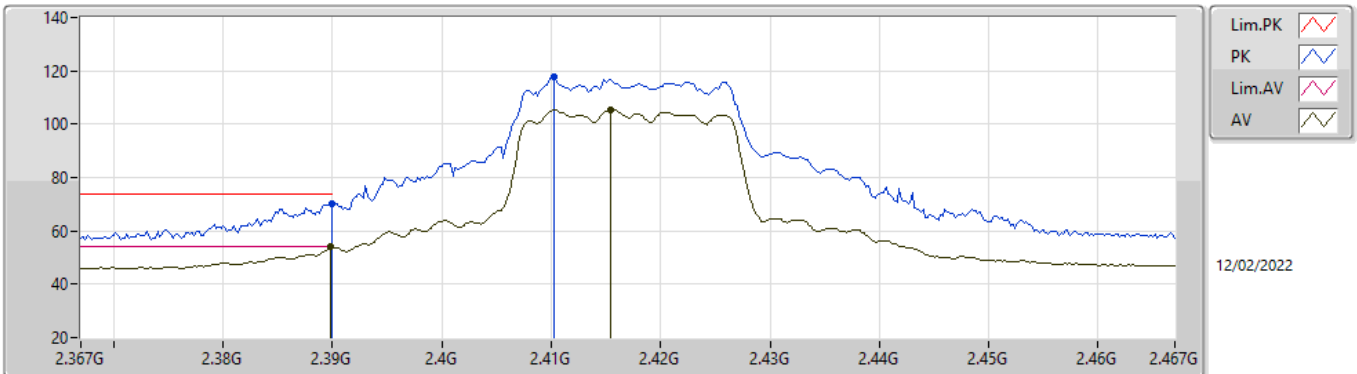


EUT Y_3TX
Setting 78
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	64.01	74.00	-9.99	33.74	3	Vertical	355	2.57	-	27.48	2.79	-
AV	2.39G	48.55	54.00	-5.45	18.28	3	Vertical	355	2.57	-	27.48	2.79	-
PK	2.4102G	114.22	Inf	-Inf	83.89	3	Vertical	355	2.57	-	27.52	2.81	-
AV	2.4156G	102.12	Inf	-Inf	71.78	3	Vertical	355	2.57	-	27.53	2.81	-

802.11ax HEW20_Nss1,(MCS0)_3TX

2417MHz_TX

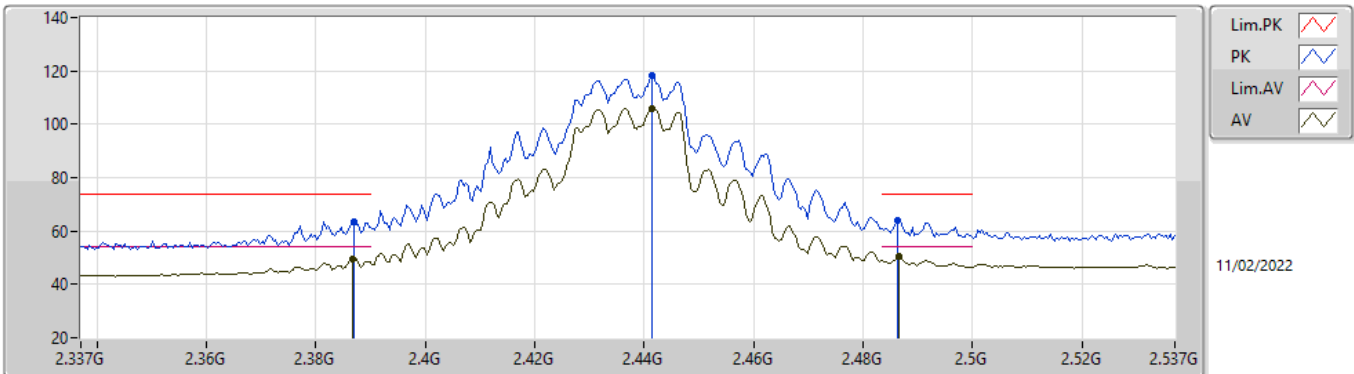


EUT Y_3TX
Setting 78
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.39G	70.22	74.00	-3.78	39.95	3	Horizontal	271	2.14	-	27.48	2.79	-	
AV	2.3898G	53.88	54.00	-0.12	23.61	3	Horizontal	271	2.14	-	27.48	2.79	-	
PK	2.4102G	117.78	Inf	-Inf	87.45	3	Horizontal	271	2.14	-	27.52	2.81	-	
AV	2.4154G	105.30	Inf	-Inf	74.96	3	Horizontal	271	2.14	-	27.53	2.81	-	

802.11ax HEW20_Nss1,(MCS0)_3TX

2437MHz_TX

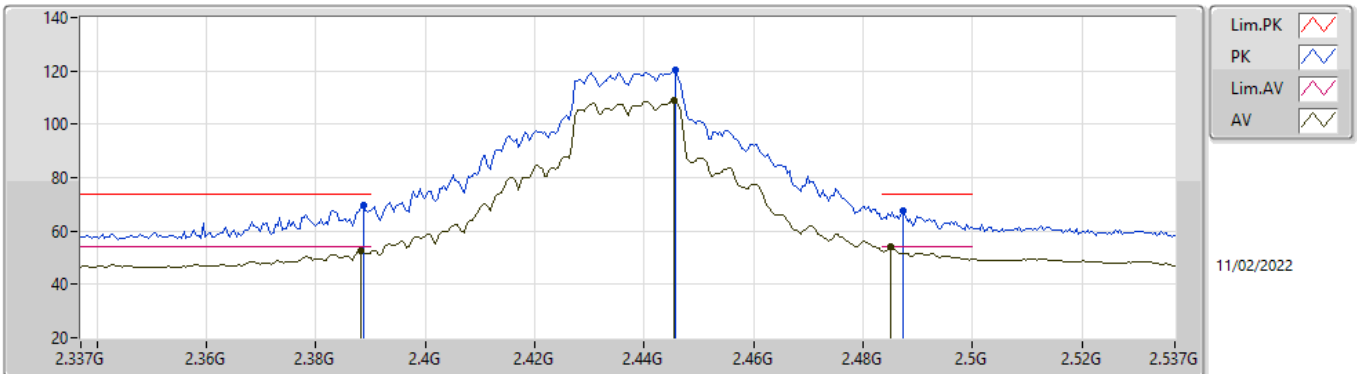


EUT Y_3TX
Setting 97
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	63.44	74.00	-10.56	33.18	3	Vertical	353	2.48	-	27.47	2.79	-
AV	2.3866G	49.72	54.00	-4.28	19.46	3	Vertical	353	2.48	-	27.47	2.79	-
PK	2.4414G	118.06	Inf	-Inf	87.66	3	Vertical	353	2.48	-	27.58	2.82	-
AV	2.4414G	106.00	Inf	-Inf	75.60	3	Vertical	353	2.48	-	27.58	2.82	-
PK	2.4862G	64.00	74.00	-10.00	33.34	3	Vertical	353	2.48	-	27.82	2.84	-
AV	2.4866G	50.33	54.00	-3.67	19.67	3	Vertical	353	2.48	-	27.82	2.84	-

802.11ax HEW20_Nss1,(MCS0)_3TX

2437MHz_TX

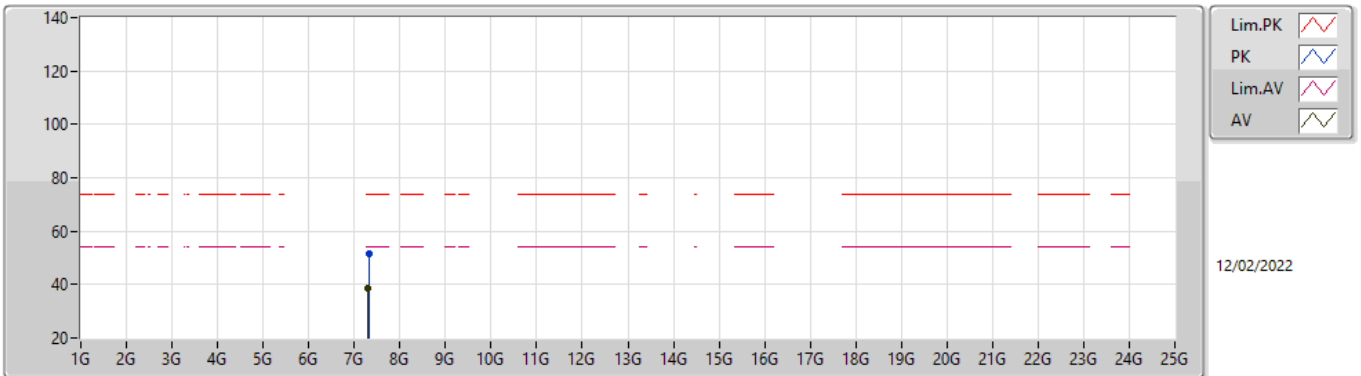


EUT_Y_3TX
Setting 97
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	69.52	74.00	-4.48	39.25	3	Horizontal	288	2.92	-	27.48	2.79	-
AV	2.3882G	52.50	54.00	-1.50	22.23	3	Horizontal	288	2.92	-	27.48	2.79	-
PK	2.4458G	120.23	Inf	-Inf	89.82	3	Horizontal	288	2.92	-	27.59	2.82	-
AV	2.4454G	109.04	Inf	-Inf	78.63	3	Horizontal	288	2.92	-	27.59	2.82	-
PK	2.4874G	67.35	74.00	-6.65	36.69	3	Horizontal	288	2.92	-	27.82	2.84	-
AV	2.485G	53.89	54.00	-0.11	23.24	3	Horizontal	288	2.92	-	27.81	2.84	-

802.11ax HEW20_Nss1,(MCS0)_3TX

2437MHz_TX

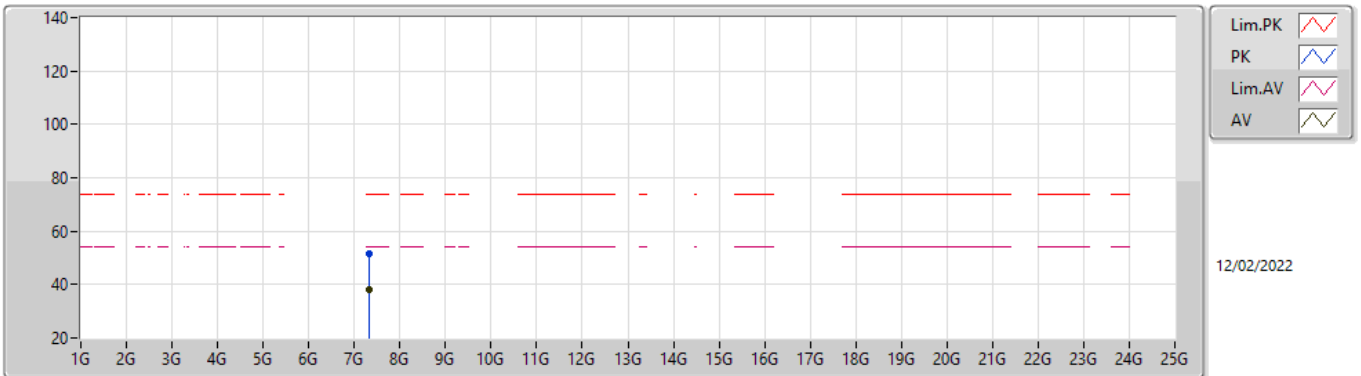


EUT Y_3TX
Setting 97
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	7.31508G	51.50	74.00	-22.50	41.61	3	Vertical	333	2.90	-	37.50	6.06	33.67
AV	7.30736G	38.49	54.00	-15.51	28.60	3	Vertical	333	2.90	-	37.50	6.05	33.66

802.11ax HEW20_Nss1,(MCS0)_3TX

2437MHz_TX

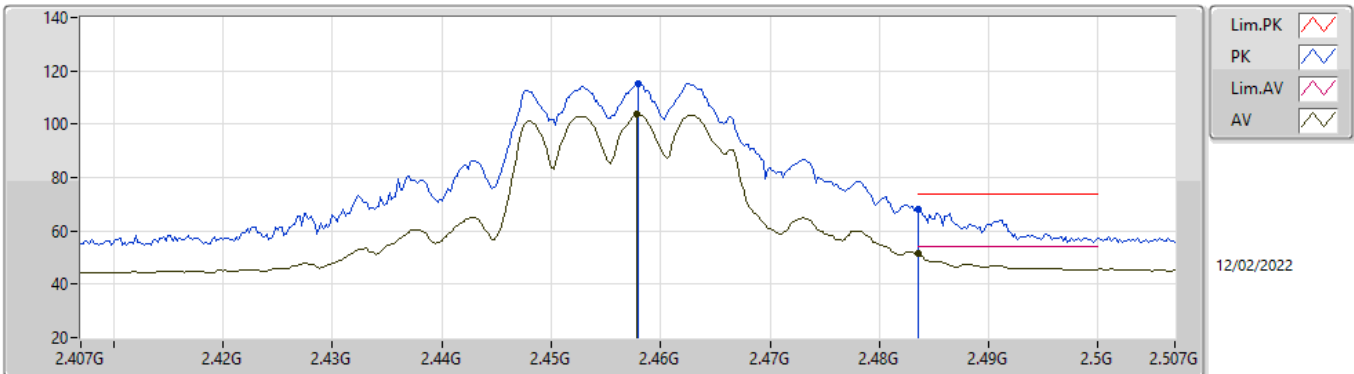


EUT Y_3TX
Setting 97
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	7.31816G	51.35	74.00	-22.65	41.46	3	Horizontal	197	2.24	-	37.50	6.06	33.67
AV	7.31808G	37.86	54.00	-16.14	27.97	3	Horizontal	197	2.24	-	37.50	6.06	33.67

802.11ax HEW20_Nss1,(MCS0)_3TX

2457MHz_TX

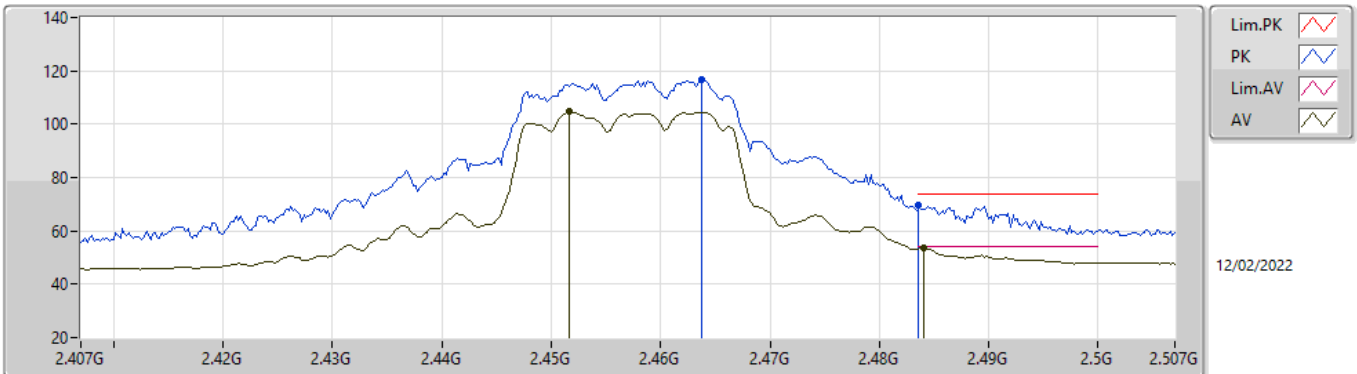


EUT Y_3TX
Setting 80
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.458G	115.38	Inf	-Inf	84.90	3	Vertical	360	2.81	-	27.65	2.83	-	
AV	2.4578G	103.59	Inf	-Inf	73.11	3	Vertical	360	2.81	-	27.65	2.83	-	
PK	2.4836G	68.19	74.00	-5.81	37.55	3	Vertical	360	2.81	-	27.80	2.84	-	
AV	2.4835G	51.49	54.00	-2.51	20.85	3	Vertical	360	2.81	-	27.80	2.84	-	

802.11ax HEW20_Nss1,(MCS0)_3TX

2457MHz_TX

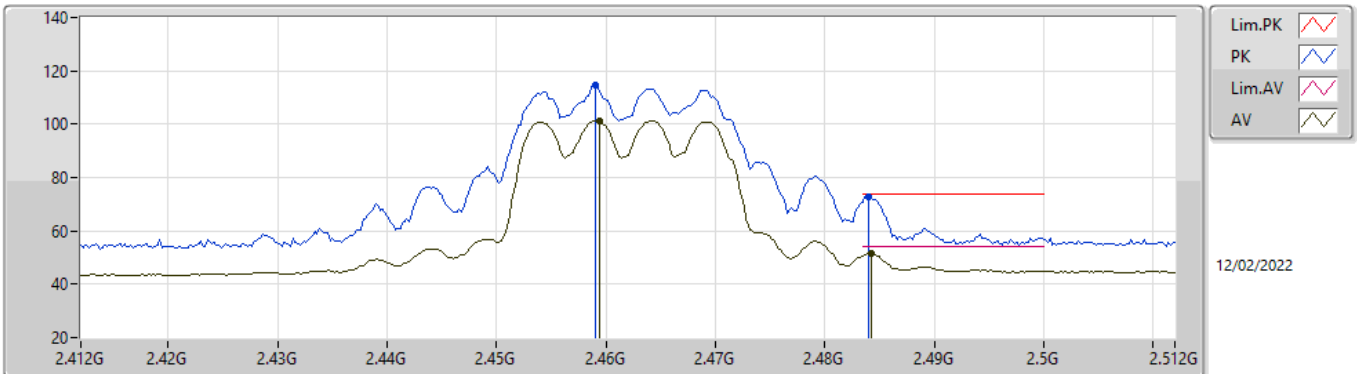


EUT Y_3TX
Setting 80
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4638G	116.60	Inf	-Inf	86.09	3	Horizontal	290	2.87	-	27.68	2.83	-	
AV	2.4516G	104.58	Inf	-Inf	74.14	3	Horizontal	290	2.87	-	27.61	2.83	-	
PK	2.4836G	69.83	74.00	-4.17	39.19	3	Horizontal	290	2.87	-	27.80	2.84	-	
AV	2.484G	53.79	54.00	-0.21	23.15	3	Horizontal	290	2.87	-	27.80	2.84	-	

802.11ax HEW20_Nss1,(MCS0)_3TX

2462MHz_TX

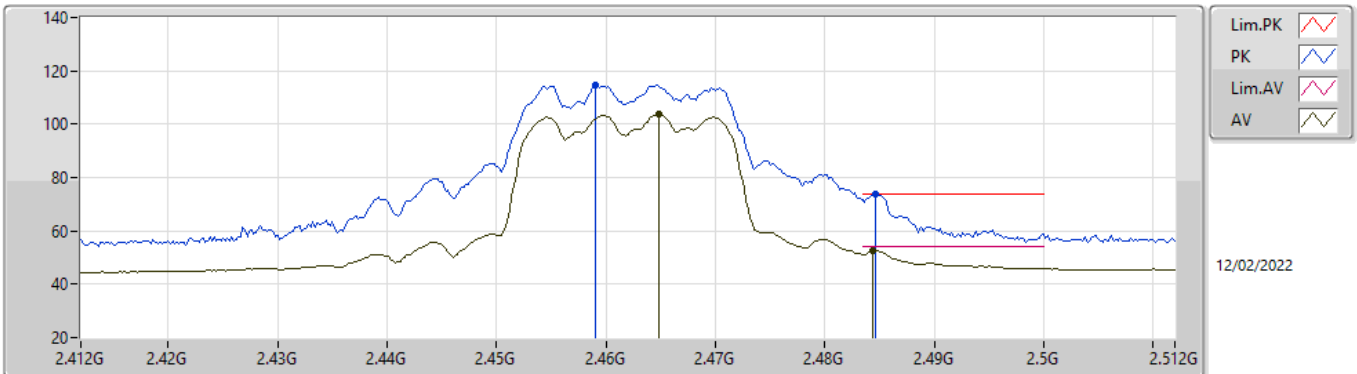


EUT Y_3TX
Setting 71
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.459G	114.62	Inf	-Inf	84.14	3	Vertical	354	2.83	-	27.65	2.83	-	
AV	2.4594G	101.18	Inf	-Inf	70.69	3	Vertical	354	2.83	-	27.66	2.83	-	
PK	2.484G	72.59	74.00	-1.41	41.95	3	Vertical	354	2.83	-	27.80	2.84	-	
AV	2.4842G	51.47	54.00	-2.53	20.82	3	Vertical	354	2.83	-	27.81	2.84	-	

802.11ax HEW20_Nss1,(MCS0)_3TX

2462MHz_TX

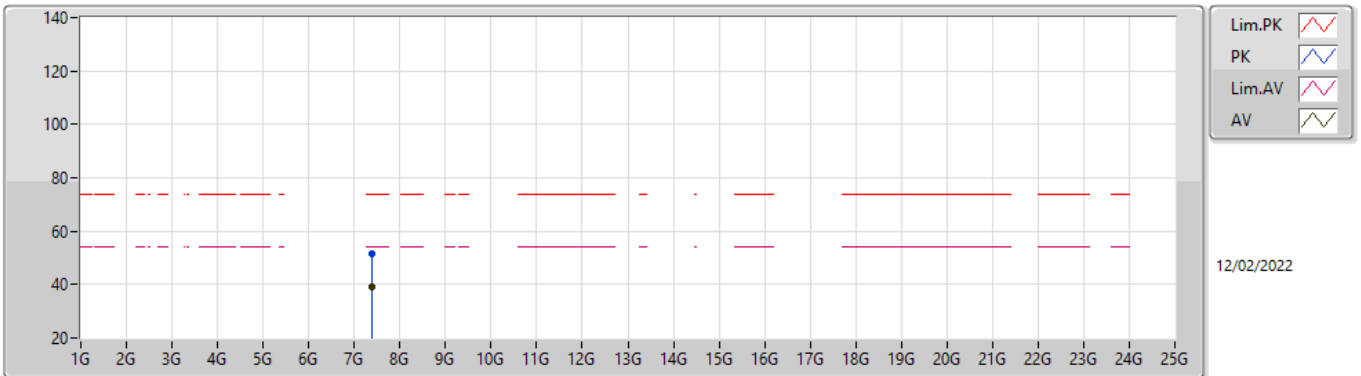


EUT Y_3TX
Setting 71
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.459G	114.86	Inf	-Inf	84.38	3	Horizontal	246	2.95	-	27.65	2.83	-	
AV	2.4648G	103.89	Inf	-Inf	73.37	3	Horizontal	246	2.95	-	27.69	2.83	-	
PK	2.4846G	73.97	74.00	-0.03	43.32	3	Horizontal	246	2.95	-	27.81	2.84	-	
AV	2.4844G	52.43	54.00	-1.57	21.78	3	Horizontal	246	2.95	-	27.81	2.84	-	

802.11ax HEW20_Nss1,(MCS0)_3TX

2462MHz_TX

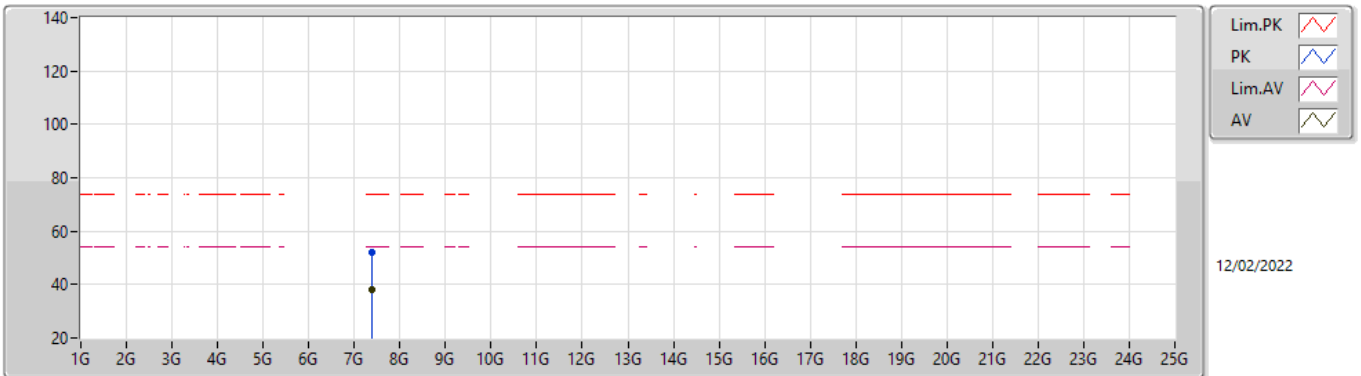


EUT Y_3TX
Setting 71
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	7.3764G	51.30	74.00	-22.70	41.34	3	Vertical	337	1.99	-	37.61	6.09	33.74	
AV	7.3824G	38.99	54.00	-15.01	29.02	3	Vertical	337	1.99	-	37.63	6.09	33.75	

802.11ax HEW20_Nss1,(MCS0)_3TX

2462MHz_TX

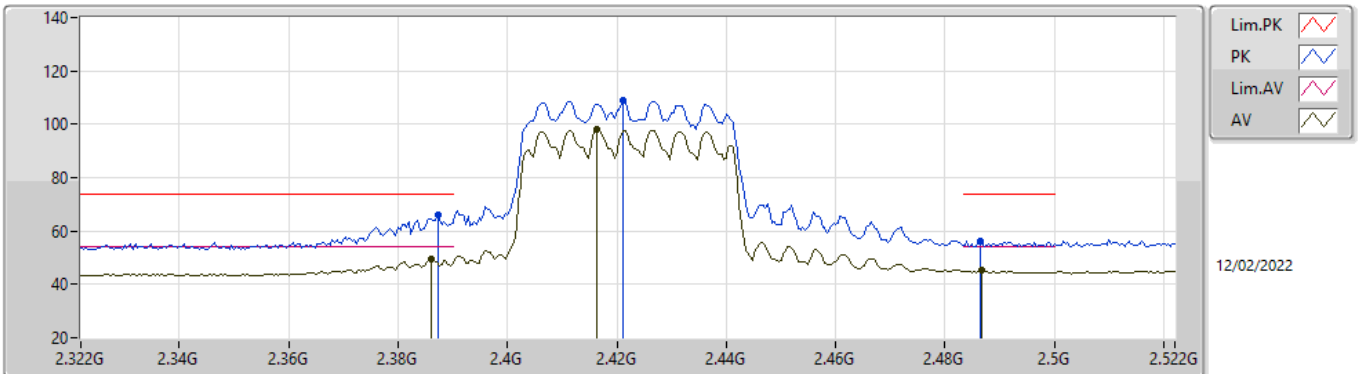


EUT Y_3TX
Setting 71
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	7.39544G	51.86	74.00	-22.14	41.84	3	Horizontal	282	1.26	-	37.68	6.10	33.76
AV	7.3888G	37.89	54.00	-16.11	27.90	3	Horizontal	282	1.26	-	37.66	6.09	33.76

802.11ax HEW40_Nss1,(MCS0)_3TX

2422MHz_TX

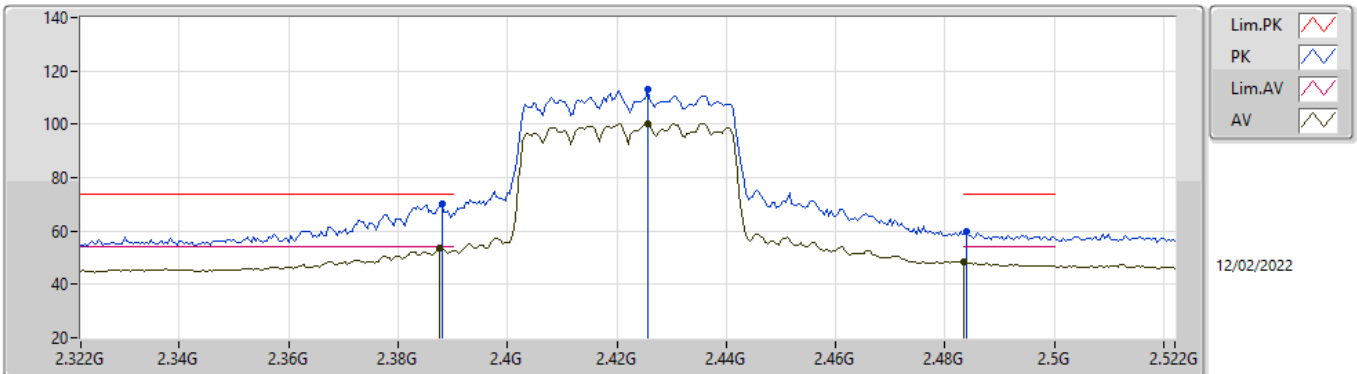


EUT Y_3TX
Setting 71
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3872G	65.93	74.00	-8.07	35.67	3	Vertical	327	2.60	-	27.47	2.79	-
AV	2.386G	49.32	54.00	-4.68	19.06	3	Vertical	327	2.60	-	27.47	2.79	-
PK	2.4212G	108.95	Inf	-Inf	78.60	3	Vertical	327	2.60	-	27.54	2.81	-
AV	2.4164G	98.14	Inf	-Inf	67.80	3	Vertical	327	2.60	-	27.53	2.81	-
PK	2.4864G	56.23	74.00	-17.77	25.57	3	Vertical	327	2.60	-	27.82	2.84	-
AV	2.4868G	45.21	54.00	-8.79	14.55	3	Vertical	327	2.60	-	27.82	2.84	-

802.11ax HEW40_Nss1,(MCS0)_3TX

2422MHz_TX

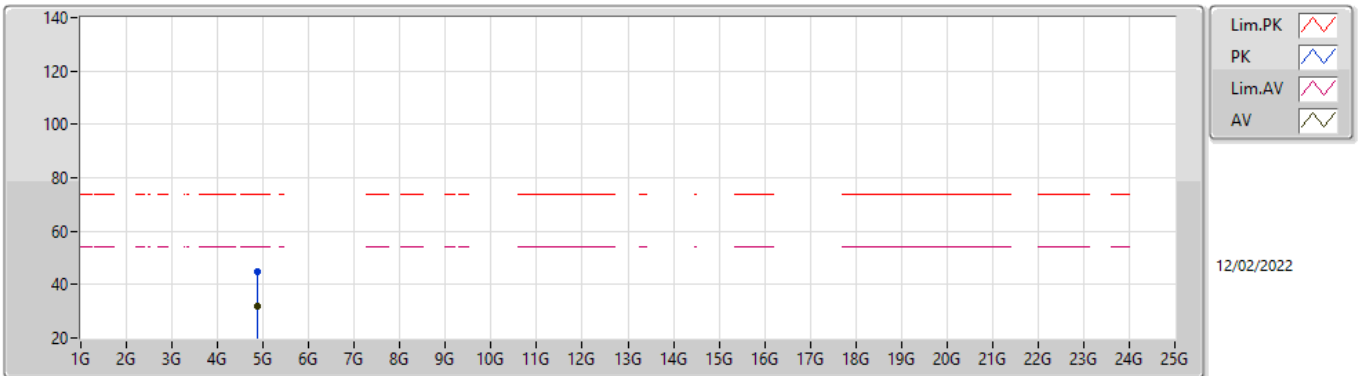


EUT Y_3TX
Setting 71
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	70.43	74.00	-3.57	40.16	3	Horizontal	288	2.60	-	27.48	2.79	-
AV	2.3876G	53.84	54.00	-0.16	23.57	3	Horizontal	288	2.60	-	27.48	2.79	-
PK	2.4256G	112.87	Inf	-Inf	82.51	3	Horizontal	288	2.60	-	27.55	2.81	-
AV	2.4256G	100.42	Inf	-Inf	70.06	3	Horizontal	288	2.60	-	27.55	2.81	-
PK	2.484G	59.80	74.00	-14.20	29.16	3	Horizontal	288	2.60	-	27.80	2.84	-
AV	2.4835G	48.54	54.00	-5.46	17.90	3	Horizontal	288	2.60	-	27.80	2.84	-

802.11ax HEW40_Nss1,(MCS0)_3TX

2422MHz_TX

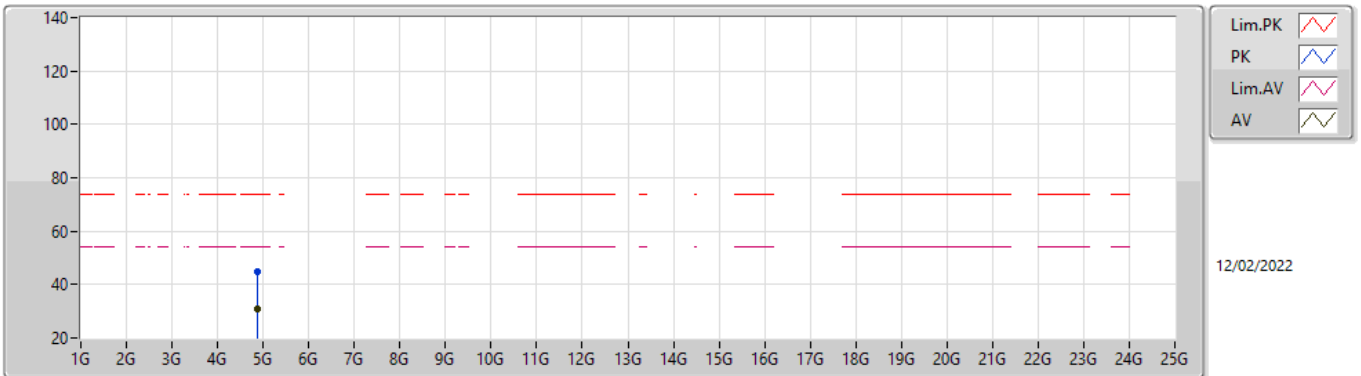


EUT Y_3TX
Setting 71
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8788G	44.83	74.00	-29.17	40.29	3	Vertical	140	1.34	-	32.92	4.84	33.22
AV	4.8724G	31.80	54.00	-22.20	27.30	3	Vertical	140	1.34	-	32.89	4.84	33.23

802.11ax HEW40_Nss1,(MCS0)_3TX

2422MHz_TX

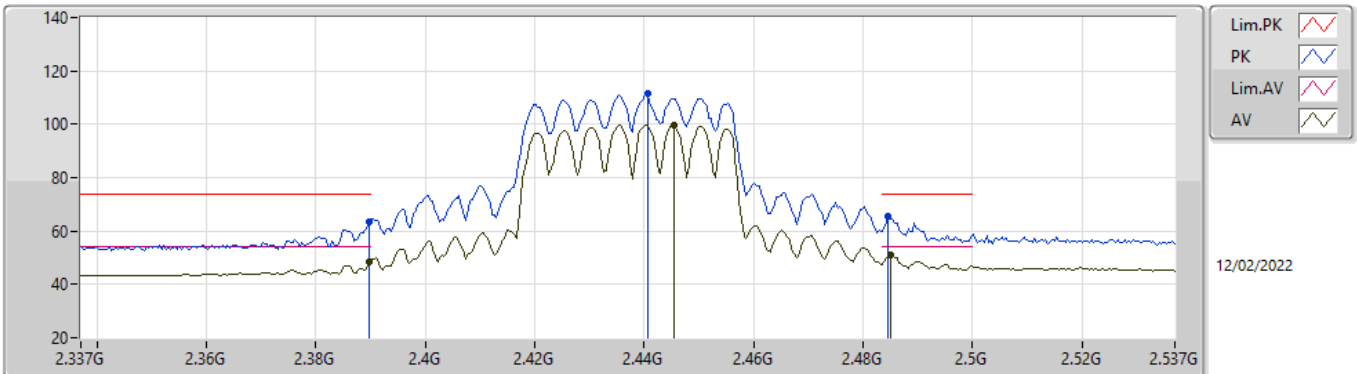


EUT Y_3TX
Setting 71
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.8884G	44.61	74.00	-29.39	40.04	3	Horizontal	165	1.56	-	32.95	4.84	33.22	
AV	4.8716G	30.79	54.00	-23.21	26.29	3	Horizontal	165	1.56	-	32.89	4.84	33.23	

802.11ax HEW40_Nss1,(MCS0)_3TX

2437MHz_TX

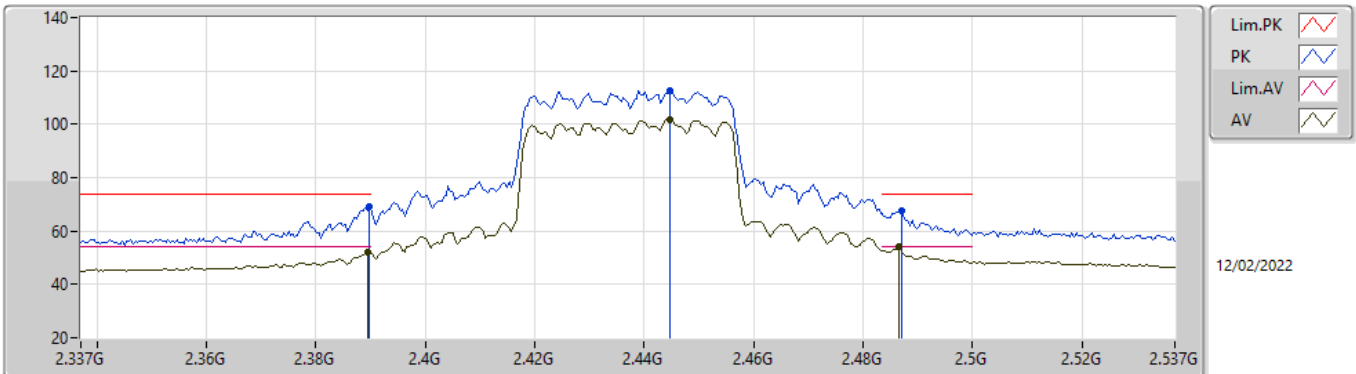


EUT_Y_3TX
Setting 76
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	63.61	74.00	-10.39	33.34	3	Vertical	360	2.53	-	27.48	2.79	-
AV	2.3898G	48.50	54.00	-5.50	18.23	3	Vertical	360	2.53	-	27.48	2.79	-
PK	2.4406G	111.70	Inf	-Inf	81.30	3	Vertical	360	2.53	-	27.58	2.82	-
AV	2.4454G	99.76	Inf	-Inf	69.35	3	Vertical	360	2.53	-	27.59	2.82	-
PK	2.4846G	65.75	74.00	-8.25	35.10	3	Vertical	360	2.53	-	27.81	2.84	-
AV	2.485G	50.92	54.00	-3.08	20.27	3	Vertical	360	2.53	-	27.81	2.84	-

802.11ax HEW40_Nss1,(MCS0)_3TX

2437MHz_TX

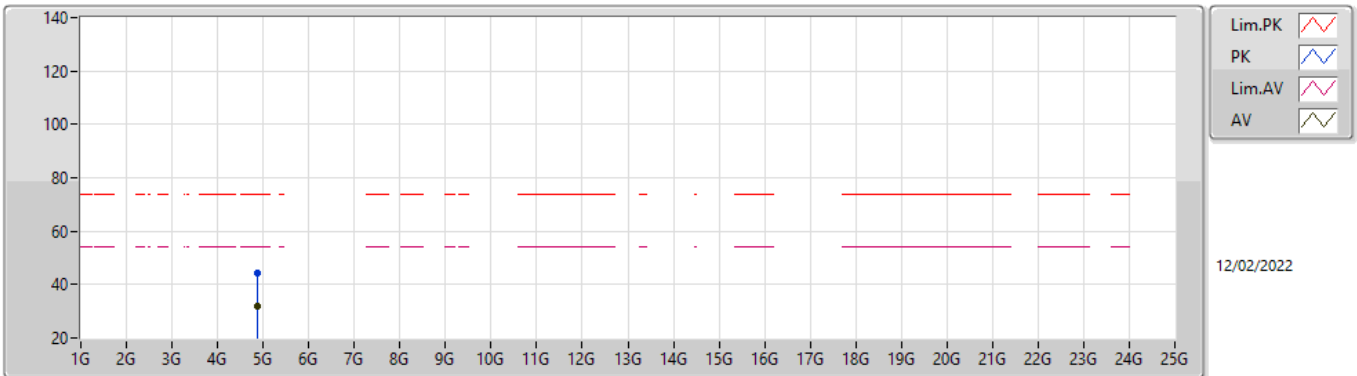


EUT_V_3TX
Setting 76
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	68.93	74.00	-5.07	38.66	3	Horizontal	287	2.91	-	27.48	2.79	-
AV	2.3894G	51.86	54.00	-2.14	21.59	3	Horizontal	287	2.91	-	27.48	2.79	-
PK	2.4446G	112.80	Inf	-Inf	82.39	3	Horizontal	287	2.91	-	27.59	2.82	-
AV	2.4446G	101.93	Inf	-Inf	71.52	3	Horizontal	287	2.91	-	27.59	2.82	-
PK	2.487G	67.40	74.00	-6.60	36.74	3	Horizontal	287	2.91	-	27.82	2.84	-
AV	2.4866G	53.89	54.00	-0.11	23.23	3	Horizontal	287	2.91	-	27.82	2.84	-

802.11ax HEW40_Nss1,(MCS0)_3TX

2437MHz_TX

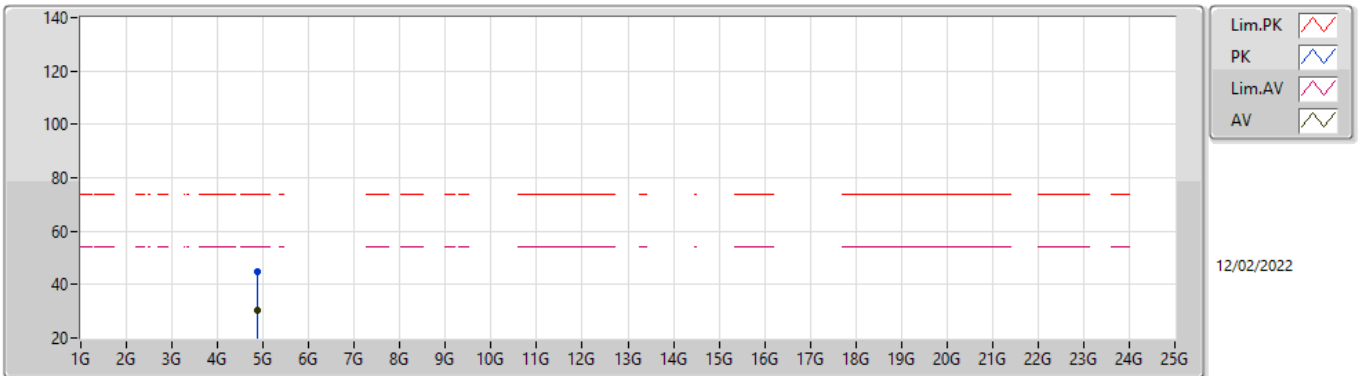


EUT Y_3TX
Setting 76
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86568G	44.39	74.00	-29.61	39.93	3	Vertical	291	1.31	-	32.86	4.83	33.23
AV	4.8718G	31.82	54.00	-22.18	27.32	3	Vertical	291	1.31	-	32.89	4.84	33.23

802.11ax HEW40_Nss1,(MCS0)_3TX

2437MHz_TX

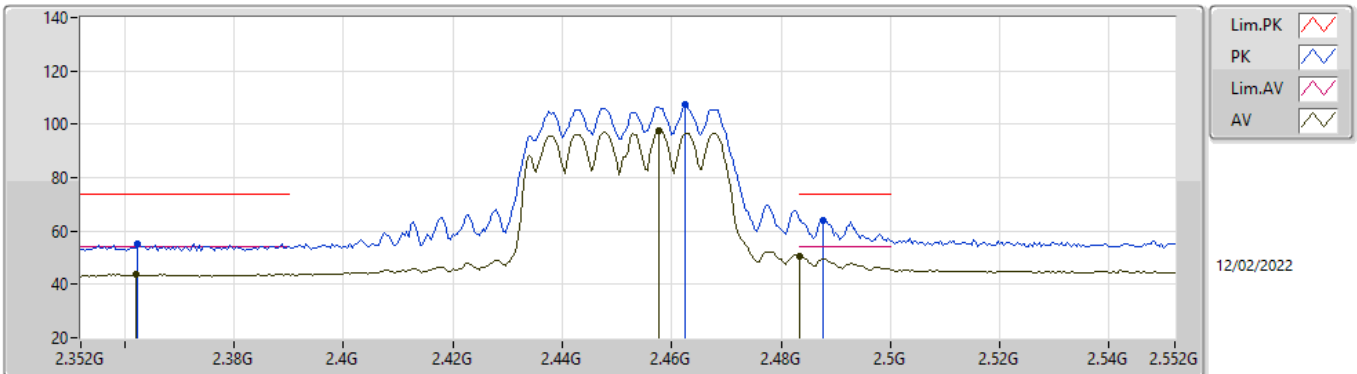


EUT Y_3TX
Setting 76
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88096G	44.72	74.00	-29.28	40.18	3	Horizontal	254	2.46	-	32.92	4.84	33.22
AV	4.87132G	30.13	54.00	-23.87	25.63	3	Horizontal	254	2.46	-	32.89	4.84	33.23

802.11ax HEW40_Nss1,(MCS0)_3TX

2452MHz_TX

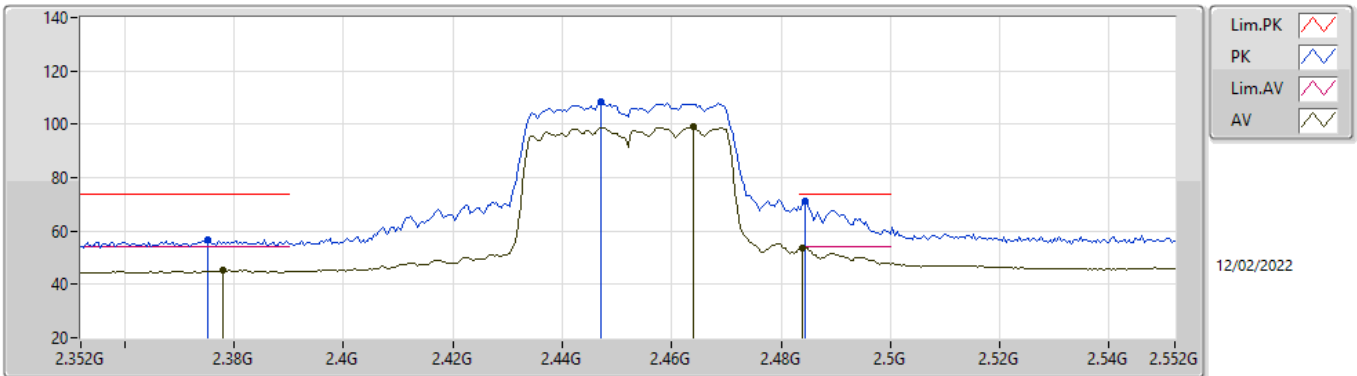


EUT Y_3TX
Setting 66
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3624G	55.23	74.00	-18.77	25.03	3	Vertical	360	2.80	-	27.42	2.78	-
AV	2.362G	43.99	54.00	-10.01	13.79	3	Vertical	360	2.80	-	27.42	2.78	-
PK	2.4624G	107.25	Inf	-Inf	76.75	3	Vertical	360	2.80	-	27.67	2.83	-
AV	2.4576G	97.66	Inf	-Inf	67.18	3	Vertical	360	2.80	-	27.65	2.83	-
PK	2.4876G	64.11	74.00	-9.89	33.44	3	Vertical	360	2.80	-	27.83	2.84	-
AV	2.4835G	50.71	54.00	-3.29	20.07	3	Vertical	360	2.80	-	27.80	2.84	-

802.11ax HEW40_Nss1,(MCS0)_3TX

2452MHz_TX

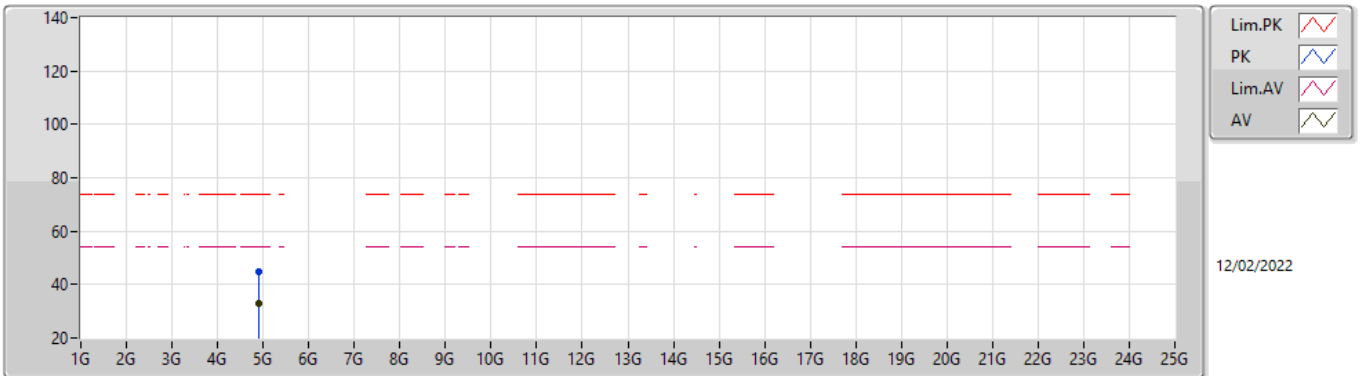


EUT_Y_3TX
Setting 66
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3752G	56.79	74.00	-17.21	26.55	3	Horizontal	282	2.92	-	27.45	2.79	-
AV	2.378G	45.38	54.00	-8.62	15.13	3	Horizontal	282	2.92	-	27.46	2.79	-
PK	2.4472G	108.59	Inf	-Inf	78.18	3	Horizontal	282	2.92	-	27.59	2.82	-
AV	2.464G	98.98	Inf	-Inf	68.47	3	Horizontal	282	2.92	-	27.68	2.83	-
PK	2.4844G	71.10	74.00	-2.90	40.45	3	Horizontal	282	2.92	-	27.81	2.84	-
AV	2.484G	53.80	54.00	-0.20	23.16	3	Horizontal	282	2.92	-	27.80	2.84	-

802.11ax HEW40_Nss1,(MCS0)_3TX

2452MHz_TX

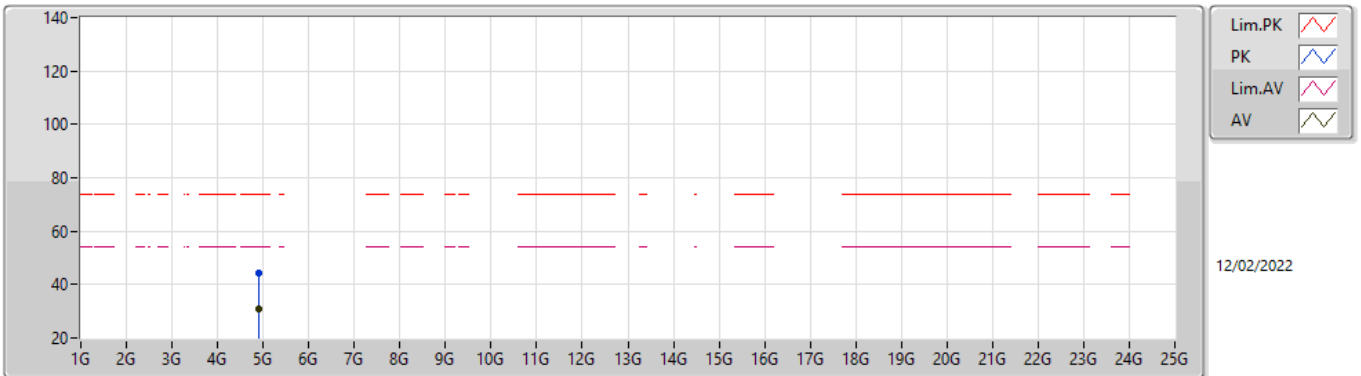


EUT Y_3TX
Setting 66
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90864G	44.61	74.00	-29.39	39.95	3	Vertical	263	1.59	-	33.02	4.85	33.21
AV	4.90764G	32.86	54.00	-21.14	28.20	3	Vertical	263	1.59	-	33.02	4.85	33.21

802.11ax HEW40_Nss1,(MCS0)_3TX

2452MHz_TX



EUT Y_3TX
Setting 66
04-D-C-5

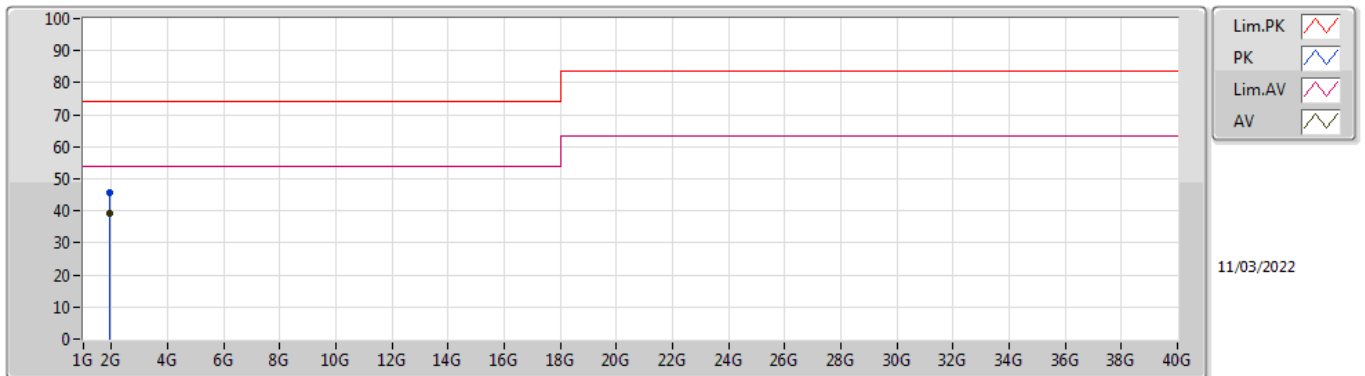
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90696G	44.30	74.00	-29.70	39.65	3	Horizontal	256	1.13	-	33.01	4.85	33.21
AV	4.90556G	30.86	54.00	-23.14	26.21	3	Horizontal	256	1.13	-	33.01	4.85	33.21



Summary

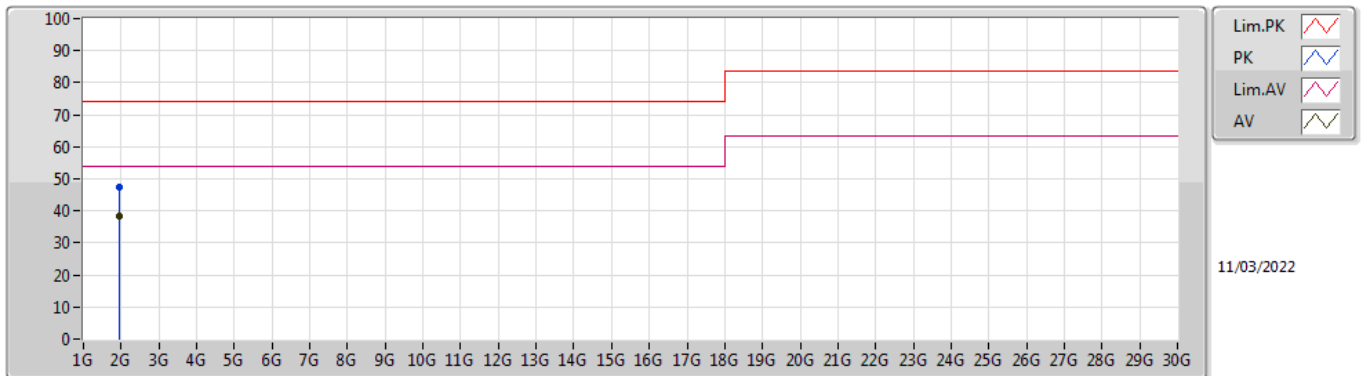
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.94095G	39.26	54.00	-14.74	Vertical

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.94115G	45.53	74.00	-28.47	-3.51	3	Vertical	240	2.51	-	49.04	27.34	4.54	35.39
AV	1.94095G	39.26	54.00	-14.74	-3.51	3	Vertical	240	2.51	"Worst"	42.77	27.34	4.54	35.39

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.95405G	47.38	74.00	-26.62	-3.55	3	Horizontal	360	1.34	-	50.93	27.29	4.55	35.39
AV	1.9534G	38.27	54.00	-15.73	-3.55	3	Horizontal	360	1.34	"Worst"	41.82	27.29	4.55	35.39