

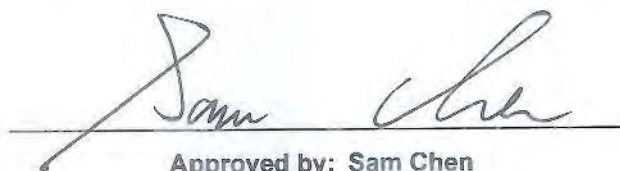


RADIO TEST REPORT

FCC ID : VW3FAST5290
Equipment : Wireless Home Router
Brand Name : SAGEMCOM
Model Name : FAST 5290
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 May 08, 2021 , and testing was started from May 08, 2021 and completed on Jul. 02, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Sam Chen

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



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	8
1.3 Testing Location Information	8
1.4 Measurement Uncertainty	9
2 Test Configuration of EUT	10
2.1 Test Channel Mode	10
2.2 The Worst Case Measurement Configuration.....	11
2.3 EUT Operation during Test	12
2.4 Accessories	12
2.5 Support Equipment.....	12
2.6 Test Setup Diagram	13
3 Transmitter Test Result	15
3.1 AC Power-line Conducted Emissions	15
3.2 DTS Bandwidth	17
3.3 Maximum Conducted Output Power	18
3.4 Power Spectral Density	21
3.5 Emissions in Non-restricted Frequency Bands	23
3.6 Emissions in Restricted Frequency Bands.....	24
4 Test Equipment and Calibration Data	28
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of DTS Bandwidth	
Appendix C. Test Results of Maximum Conducted Output Power	
Appendix D. Test Results of Power Spectral Density	
Appendix E. Test Results of Emissions in Non-restricted Frequency Bands	
Appendix F. Test Results of Emissions in Restricted Frequency Bands	
Appendix G. Test Results of Radiated Emission Co-location	
Appendix H. Test Photos	
Photographs of EUT v01	



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



Summary of Test Result

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

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: Wendy Pan



1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 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.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz					
1	1	2	-	Galtronics	02102140-07252C1 DB1	PCB	I-PEX	Note 1
2	2	3	-	Galtronics	02102140-07252C2 DB2	PCB	I-PEX	
3	3	4	-	Galtronics	02102140-07252c3 DB3	PCB	I-PEX	
4	-	1	-	Galtronics	02102142-07252CX 5G	PCB	I-PEX	
5	-	-	1	Galtronics	02102475-07252-1 6G1	PCB	I-PEX	
6	-	-	2	Galtronics	02102475-07252-2 6G2	PCB	I-PEX	
7	-	-	3	Galtronics	02102475-07252-3 6G3	PCB	I-PEX	
8	-	-	4	Galtronics	02102475-07252-4 6G4	PCB	I-PEX	

Antenna Gain (dBi)								
WLAN 2.4GHz	WLAN 5GHz UNII 1	WLAN 5GHz UNII 2A	WLAN 5GHz UNII 2C	WLAN 5GHz UNII 3	WLAN 6GHz UNII 5	WLAN 6GHz UNII 6	WLAN 6GHz UNII 7	WLAN 6GHz UNII 8
4.12	3.13	3.67	3.57	3.29	3.07	2.98	3.17	5.85
3.66	4.52	5.1	5.33	5.58	4.39	4.2	4.57	5.95
2.01	1.8	2.64	1.87	2.2	3.74	3.39	3.25	4.8
-	3.19	1.58	2.36	3.7	4.68	5.79	6.18	4.91

Directional Gain (dBi)								
WLAN 2.4GHz [3T1S]	WLAN 5GHz UNII 1 [4T1S]	WLAN 5GHz UNII 2A [4T1S]	WLAN 5GHz UNII 2C [4T1S]	WLAN 5GHz UNII 3 [4T1S]	WLAN 6GHz UNII 5 [4T1S]	WLAN 6GHz UNII 6 [4T1S]	WLAN 6GHz UNII 7 [4T1S]	WLAN 6GHz UNII 8 [4T1S]
4.65	4.68	5.22	5.53	5.91	5.11	6.19	6.29	6.22

Note2: The above information was declared by manufacturer.

The EUT enables 2.4GHz, 5GHz UNII 1, UNII 3 function only.

For 2.4GHz function:

For IEEE 802.11b/g/n/VHT/ax (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 function:

For IEEE 802.11a/n/ac/ax (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.

For 6GHz function:

For IEEE 802.11ax (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	0.952	0.21	12.425m	100
802.11g	0.955	0.2	2.075m	1k
802.11ax HEW20	0.981	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.964	0.16	782.5u	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 n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	Mtool (ver.3.2.1.3)			

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 D01 v02r01
- ♦ 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	Caster Chang	22.9-23.4 / 73-78	Jun. 04, 2021 ~ Jun. 07, 2021
Radiated Below 1GHz	03CH03-CB	Ken Yeh	24.9-25.7 / 54-55	May 08, 2021 ~ Jun. 25, 2021
Radiated Above 1GHz	03CH03-CB	Ken Yeh	23.9-25.7 / 63-68	
	03CH01-CB	Ken Yeh	23.9-24.7 / 63-68	
Radiated Co-location	03CH06-CB	Ken Yeh	25-26.1 / 59-64	Jul. 02, 2021
AC Conduction	CO01-CB	Deven Huang	24~25 / 56~58	Jul. 01, 2021



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)	2.0 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

Mode	Power Setting
802.11b_Nss1,(1Mbps)_3TX	-
2412MHz	87
2437MHz	94
2462MHz	96
802.11g_Nss1,(6Mbps)_3TX	-
2412MHz	79
2417MHz	88
2437MHz	98
2457MHz	88
2462MHz	81
802.11ax HEW20_Nss1,(MCS0)_3TX	-
2412MHz	78
2417MHz	87
2437MHz	98
2457MHz	85
2462MHz	72
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	-
2412MHz	78
2417MHz	87
2437MHz	98
2457MHz	85
2462MHz	72
802.11ax HEW40_Nss1,(MCS0)_3TX	-
2422MHz	74
2437MHz	81
2452MHz	70
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	-
2422MHz	74
2437MHz	81
2452MHz	70

Note:

- ♦ Evaluated HEW20/HEW40 mode only, due to 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	CTX
1	CTX - WLAN 2.4GHz
2	CTX - WLAN 5GHz
For operating mode 1 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	CTX - WLAN 2.4GHz
2	CTX - WLAN 5GHz
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX

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
1	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.: FA163028 for Co-location RF Exposure Evaluation.	

Note: The EUT can only be used at Y axis position.

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	Rating	Length of cable
Adapter	Sagemcom	NBS60E120500M2	INPUT: 100-127V, 50/60Hz, 1.5A OUTPUT: 12.0V, 5.0A	Non-shielded, 1m
Others				
Power cable*1, non-shielded, 1m				

2.5 Support Equipment

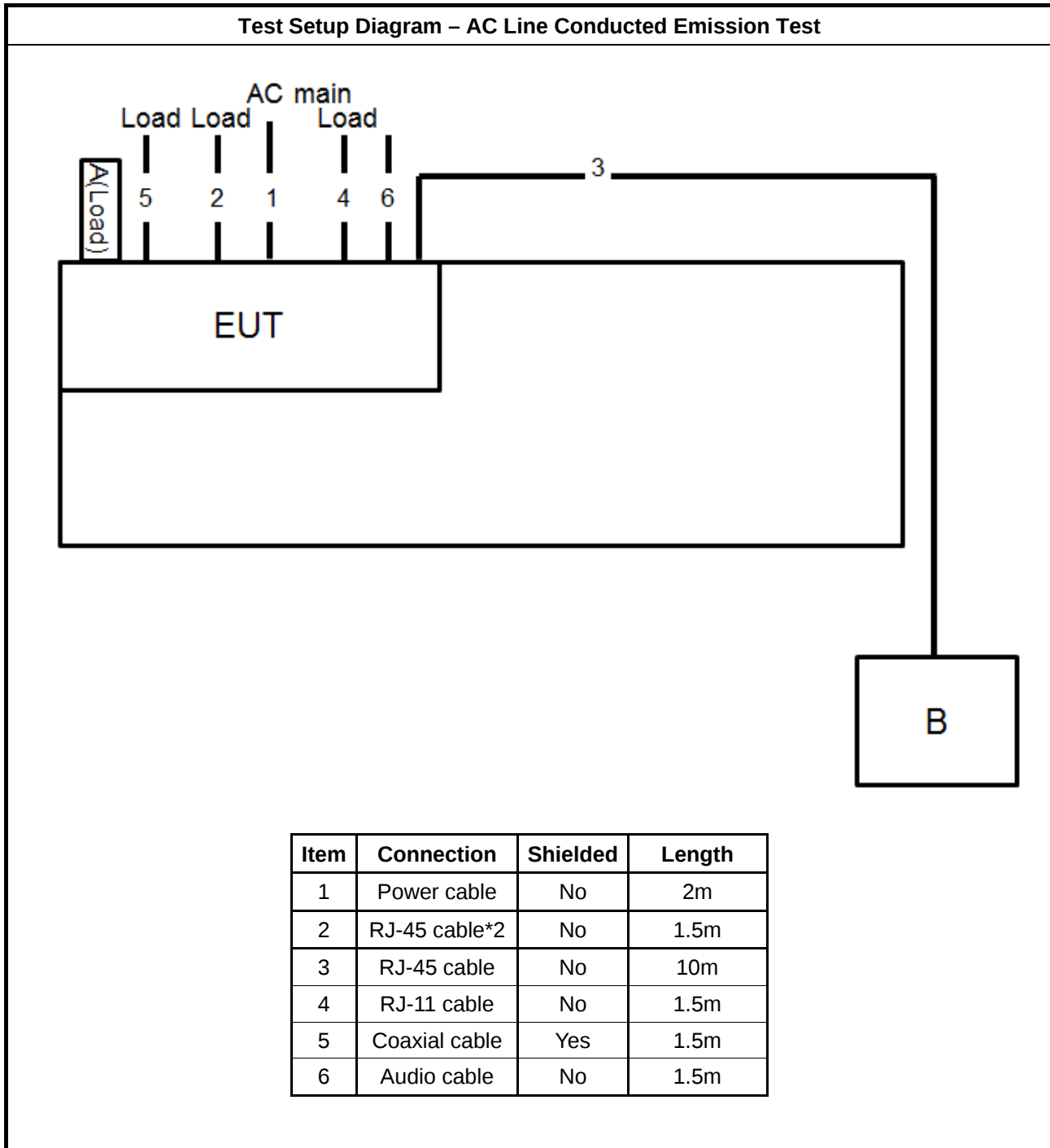
For AC Conduction:

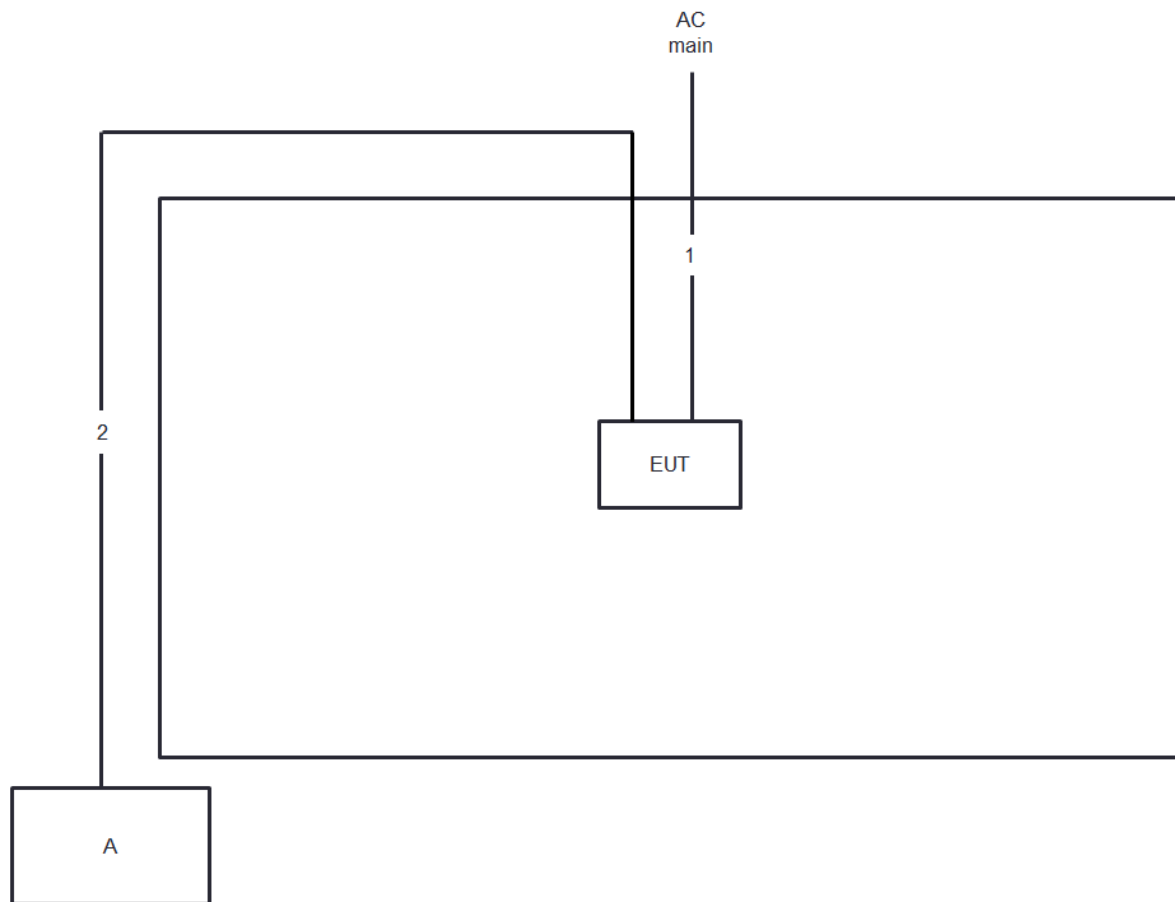
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Flash disk3.0	Transcend	JetFlash-700	N/A
B	LAN NB	DELL	E6430	N/A

For RF Conducted and For Radiated test:

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


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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

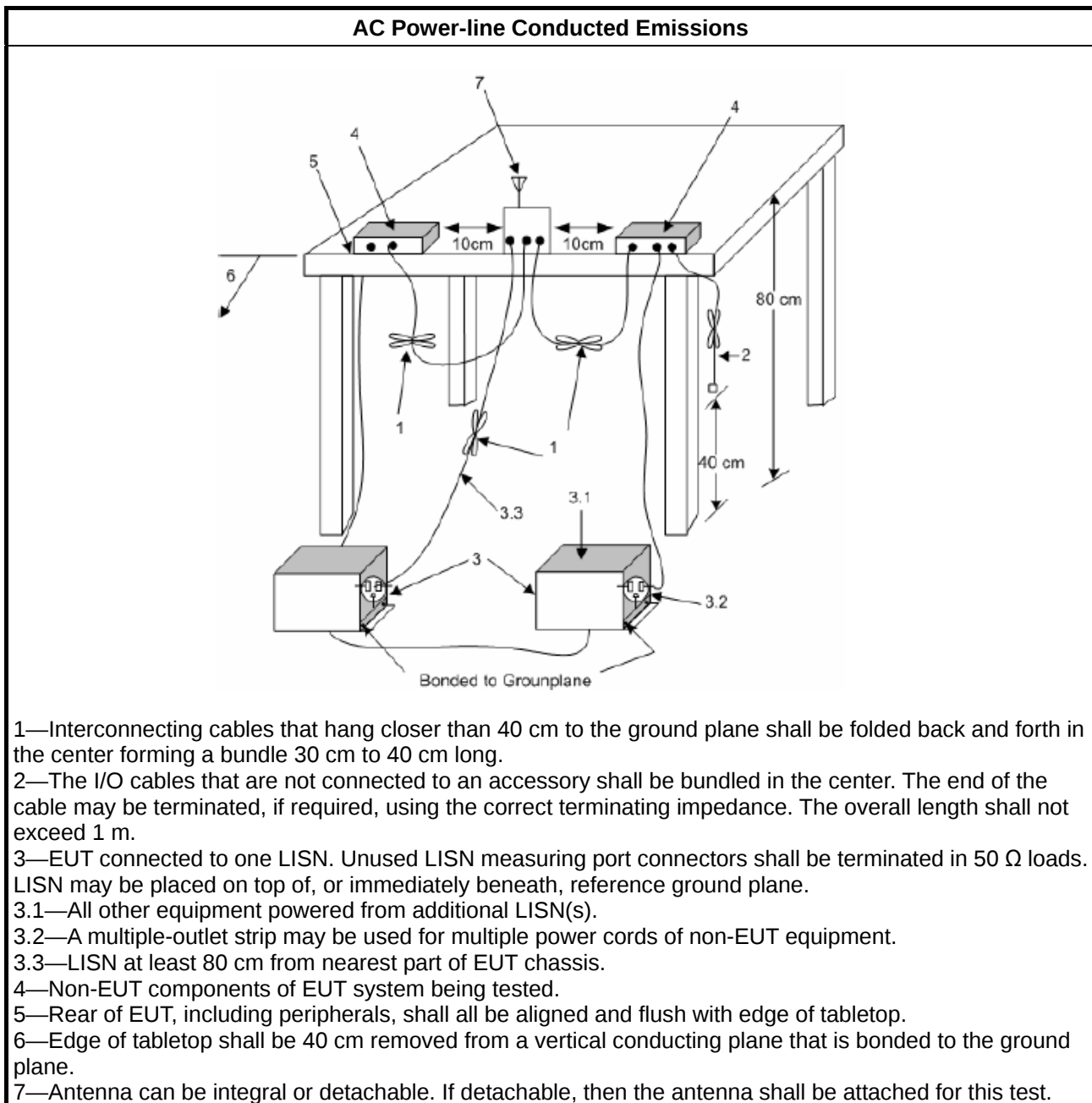
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

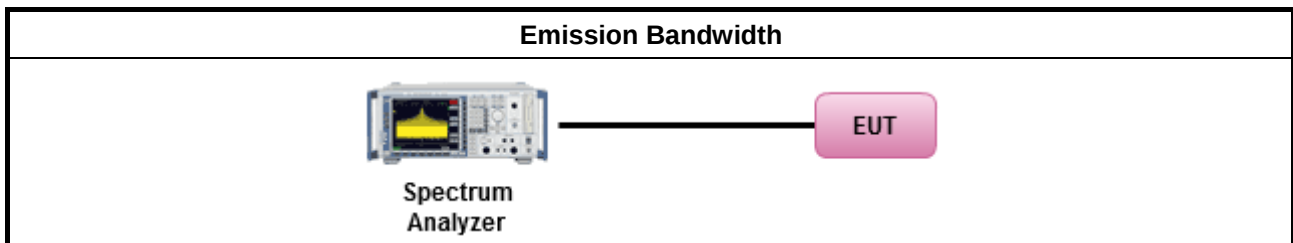
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

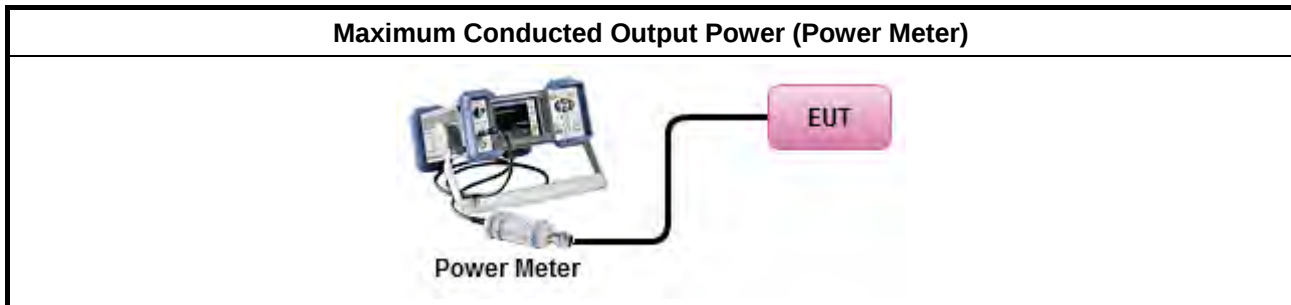
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

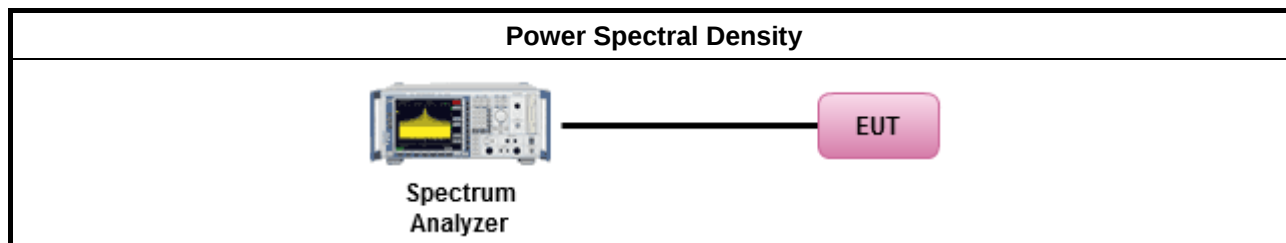
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
☒	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.	

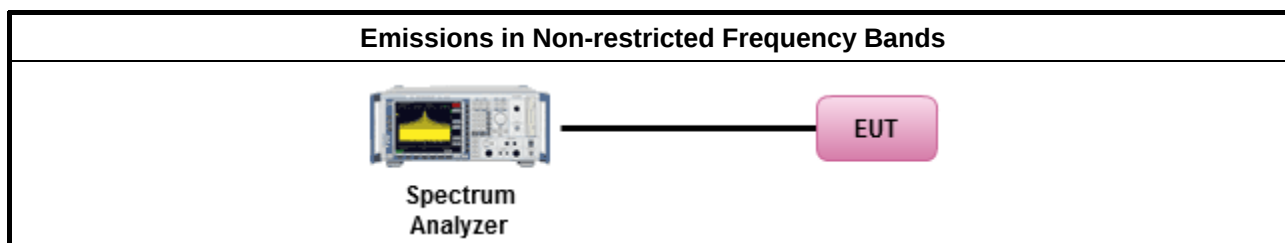
3.5.2 Measuring Instruments

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

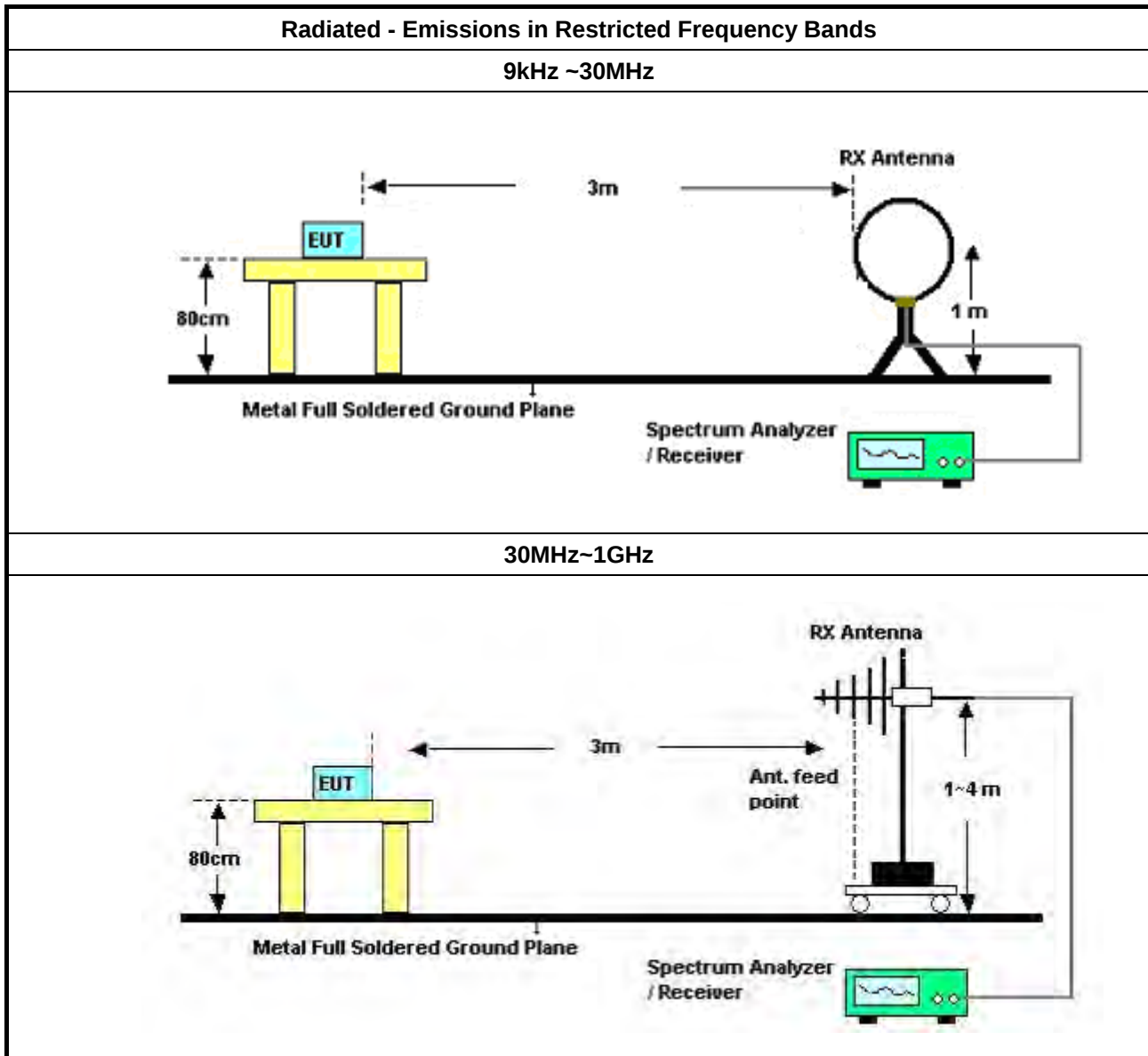
Refer a test equipment and calibration data table in this test report.

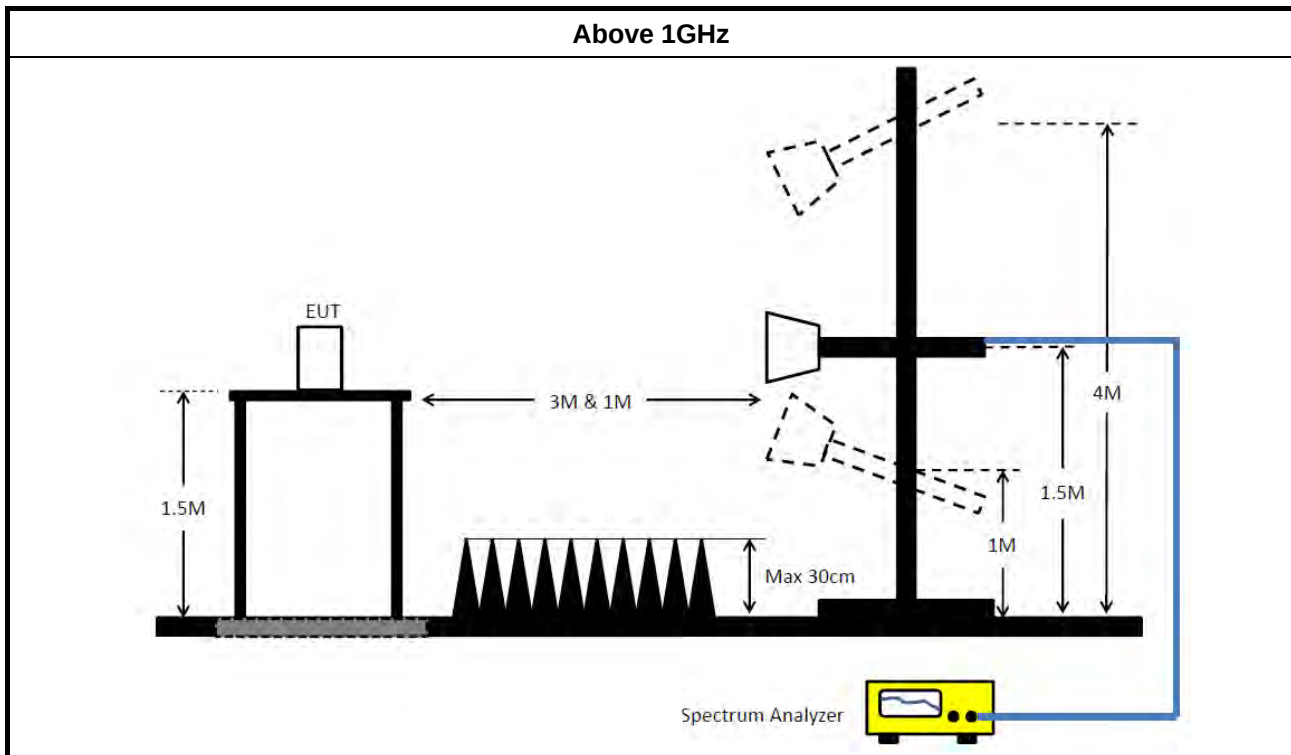


3.6.3 Test Procedures

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	Jan. 06, 2021	Jan. 05, 2022	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	Jan. 30, 2021	Jan. 29, 2022	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. 27, 2021	Jan. 26, 2022	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)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 26, 2021	Jan. 25, 2022	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 11, 2021	Jan. 10, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 03, 2020	Jul. 02, 2021	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 09, 2020	Jun. 08, 2021	Radiation (03CH03-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Mar. 22, 2021	Mar. 21, 2022	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESR7	102171	9kHz ~ 26GHz	Jul. 01, 2020	Jun. 30, 2021	Radiation (03CH03-CB)



RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	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	03CH01-CB	1GHz ~18GHz 3m	May 07, 2021	May 06, 2022	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2020	Nov. 05, 2021	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 20, 2021	May 19, 2022	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 03, 2021	May 02, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2020	Oct. 01, 2021	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 22, 2020	Jul. 21, 2021	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 06, 2021	May 05, 2022	Radiation (03CH06-CB)



Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 15, 2020	Dec. 14, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+24	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 21, 2021	May 20, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
Cable	Woken	RG402	low Cable-30	9 kHz – 1 GHz	Apr. 06, 2021	Apr. 05, 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

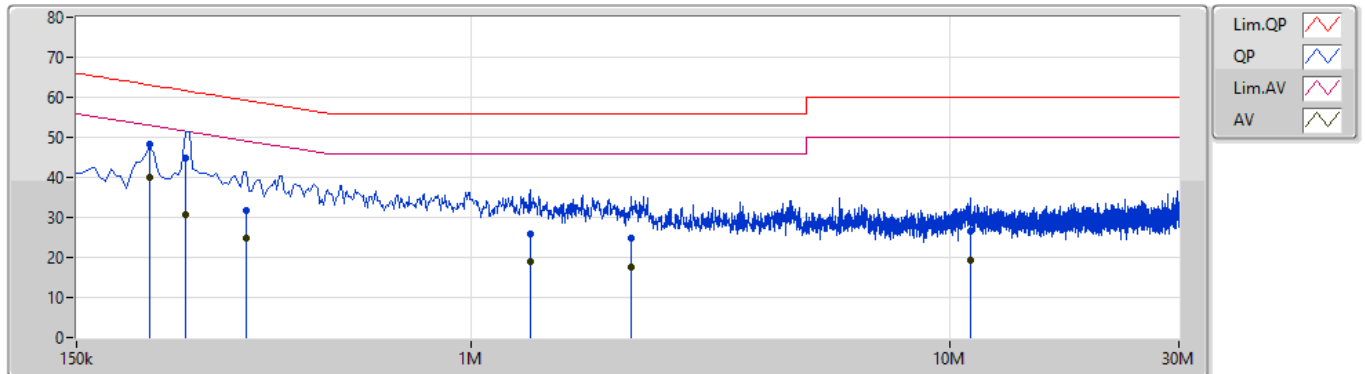
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	213k	40.35	53.09	-12.74	Neutral

Mode 1

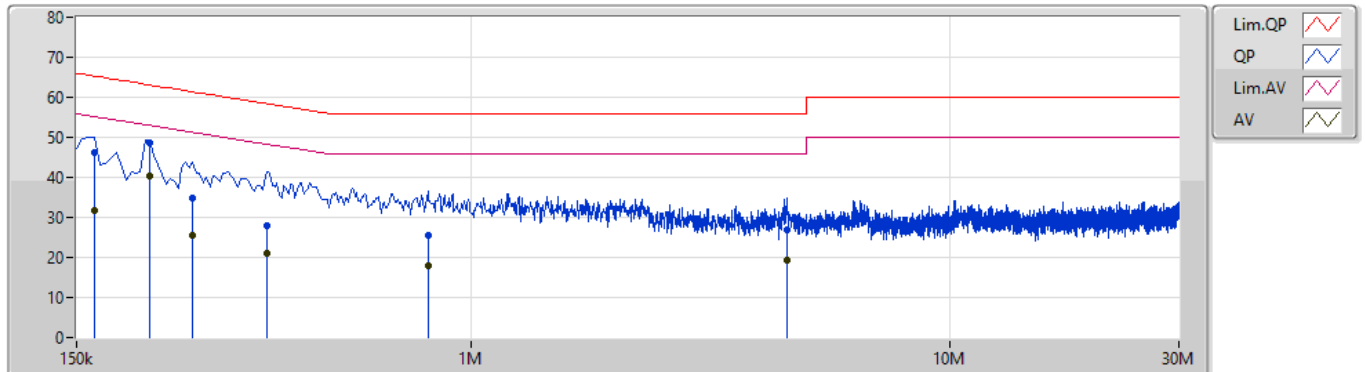
01/07/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	213k	48.25	63.09	-14.84	9.89	Line	-	38.36	0.04	0.04	9.81			
AV	213k	40.12	53.09	-12.97	9.89	Line	"Worst"	30.23	0.04	0.04	9.81			
QP	253.5k	44.82	61.64	-16.82	9.89	Line	-	34.93	0.04	0.04	9.81			
AV	253.5k	30.78	51.64	-20.86	9.89	Line	-	20.89	0.04	0.04	9.81			
QP	339k	31.81	59.23	-27.42	9.90	Line	-	21.91	0.04	0.04	9.82			
AV	339k	24.85	49.23	-24.38	9.90	Line	-	14.95	0.04	0.04	9.82			
QP	1.329M	25.99	56.00	-30.01	9.95	Line	-	16.04	0.07	0.05	9.83			
AV	1.329M	18.93	46.00	-27.07	9.95	Line	-	8.98	0.07	0.05	9.83			
QP	2.162M	24.96	56.00	-31.04	10.00	Line	-	14.96	0.09	0.08	9.83			
AV	2.162M	17.68	46.00	-28.32	10.00	Line	-	7.68	0.09	0.08	9.83			
QP	10.995M	26.51	60.00	-33.49	10.29	Line	-	16.22	0.23	0.16	9.90			
AV	10.995M	19.40	50.00	-30.60	10.29	Line	-	9.11	0.23	0.16	9.90			

Mode 1

01/07/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	163.5k	46.13	65.27	-19.14	9.88	Neutral	-	36.25	0.03	0.04	9.81			
AV	163.5k	31.72	55.27	-23.55	9.88	Neutral	-	21.84	0.03	0.04	9.81			
QP	213k	48.70	63.09	-14.39	9.88	Neutral	-	38.82	0.03	0.04	9.81			
AV	213k	40.35	53.09	-12.74	9.88	Neutral	"Worst"	30.47	0.03	0.04	9.81			
QP	262.5k	34.67	61.35	-26.68	9.88	Neutral	-	24.79	0.03	0.04	9.81			
AV	262.5k	25.59	51.35	-25.76	9.88	Neutral	-	15.71	0.03	0.04	9.81			
QP	375k	28.06	58.39	-30.33	9.89	Neutral	-	18.17	0.03	0.04	9.82			
AV	375k	20.98	48.39	-27.41	9.89	Neutral	-	11.09	0.03	0.04	9.82			
QP	811.5k	25.41	56.00	-30.59	9.92	Neutral	-	15.49	0.05	0.04	9.83			
AV	811.5k	18.07	46.00	-27.93	9.92	Neutral	-	8.15	0.05	0.04	9.83			
QP	4.551M	26.74	56.00	-29.26	10.11	Neutral	-	16.63	0.11	0.13	9.87			
AV	4.551M	19.41	46.00	-26.59	10.11	Neutral	-	9.30	0.11	0.13	9.87			

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	7.05M	10.995M	11M0G1D	6.55M	10.295M
802.11g_Nss1,(6Mbps)_3TX	16.35M	18.566M	18M6D1D	16.325M	16.642M
802.11ax HEW20_Nss1,(MCS0)_3TX	18.975M	22.139M	22M1D1D	18.8M	18.991M
802.11ax HEW40_Nss1,(MCS0)_3TX	37.55M	37.581M	37M6D1D	36.35M	37.481M

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;

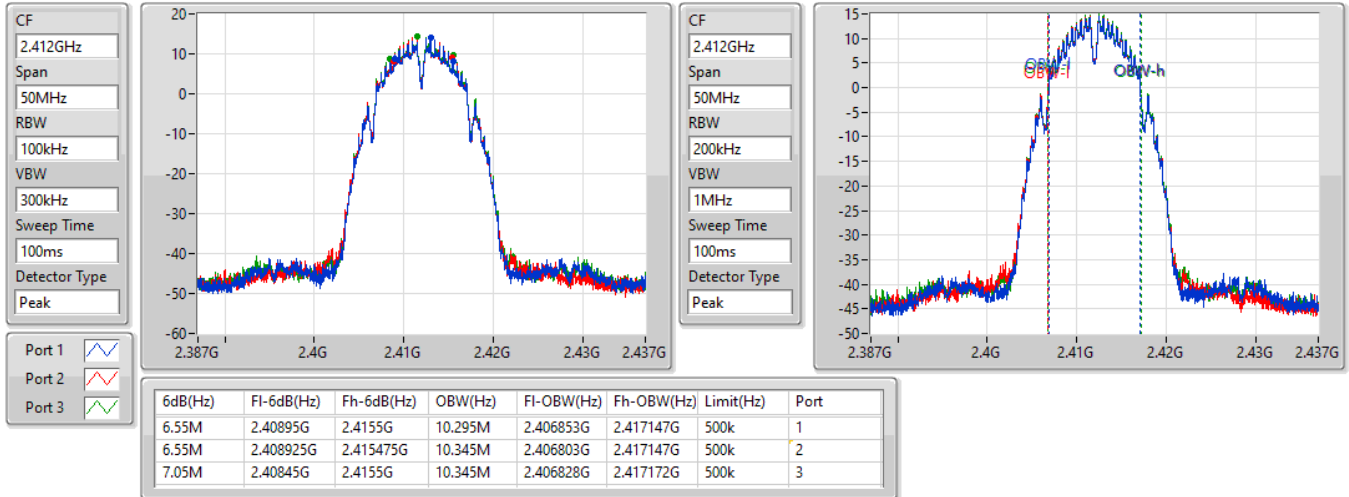
Result

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	6.55M	10.295M	6.55M	10.345M	7.05M	10.345M
2437MHz	Pass	500k	7.025M	10.595M	7.05M	10.995M	6.975M	10.57M
2462MHz	Pass	500k	6.55M	10.595M	7.025M	10.795M	7M	10.695M
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.742M	16.325M	16.742M	16.325M	16.642M
2437MHz	Pass	500k	16.325M	18.566M	16.325M	17.916M	16.325M	17.366M
2462MHz	Pass	500k	16.325M	16.717M	16.35M	16.742M	16.325M	16.642M
802.11ax HEW20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.975M	18.991M	18.95M	19.04M	18.875M	19.065M
2437MHz	Pass	500k	18.825M	22.139M	18.825M	19.515M	18.8M	19.34M
2462MHz	Pass	500k	18.975M	19.015M	18.9M	19.04M	18.95M	19.065M
802.11ax HEW40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.45M	37.481M	37.55M	37.531M	36.75M	37.481M
2437MHz	Pass	500k	37.4M	37.481M	36.35M	37.581M	37M	37.581M
2452MHz	Pass	500k	37.4M	37.481M	37.05M	37.481M	36.95M	37.531M

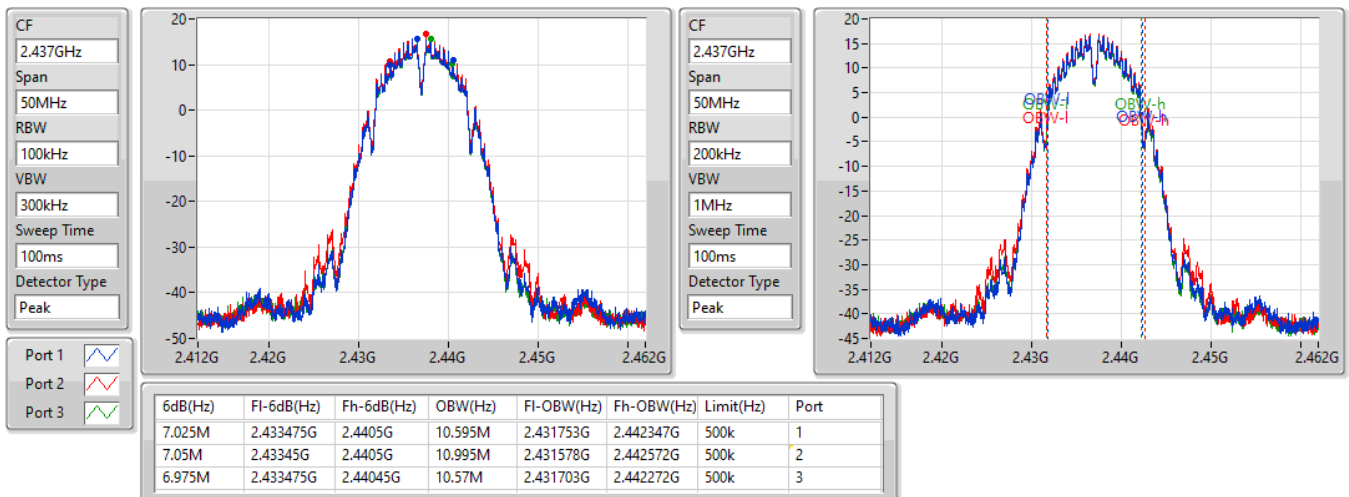
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_3TX
EBW
2412MHz

07/06/2021

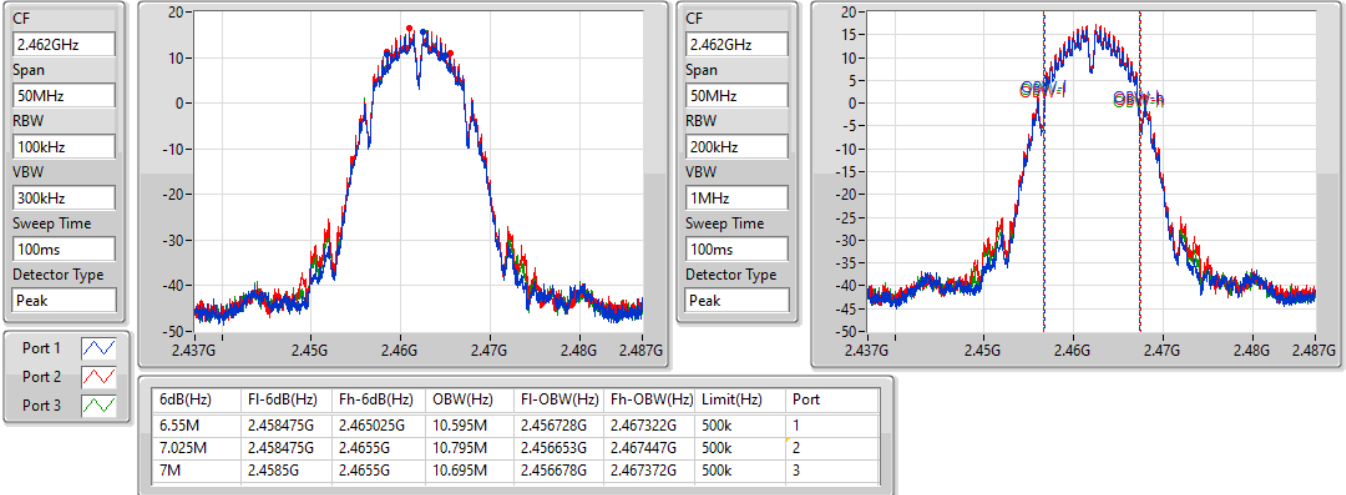

802.11b_Nss1,(1Mbps)_3TX
EBW
2437MHz

07/06/2021

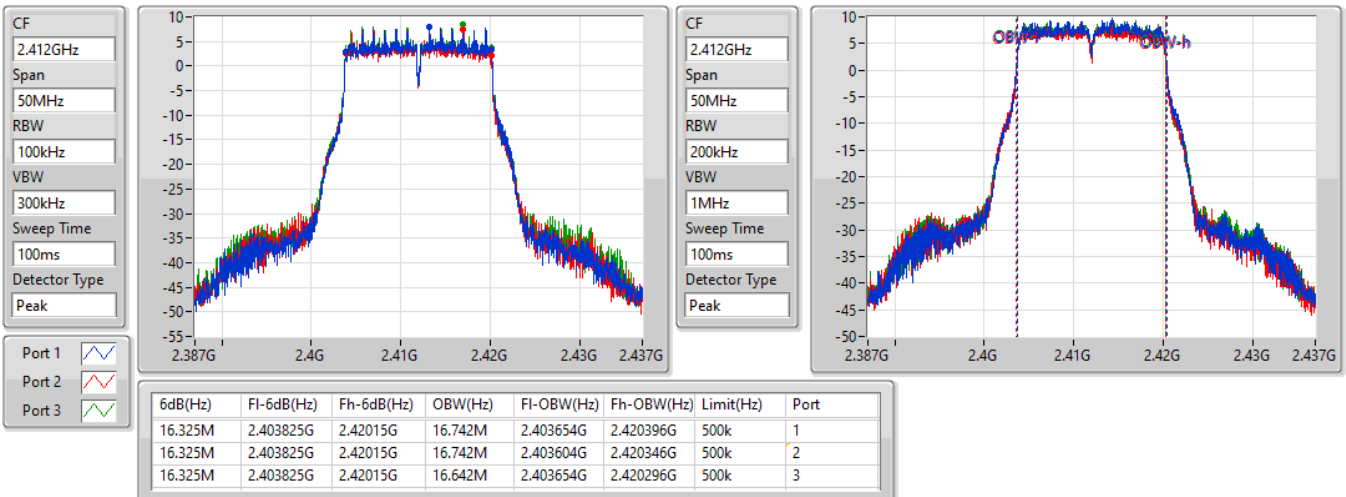


802.11b_Nss1,(1Mbps)_3TX
EBW
2462MHz

07/06/2021

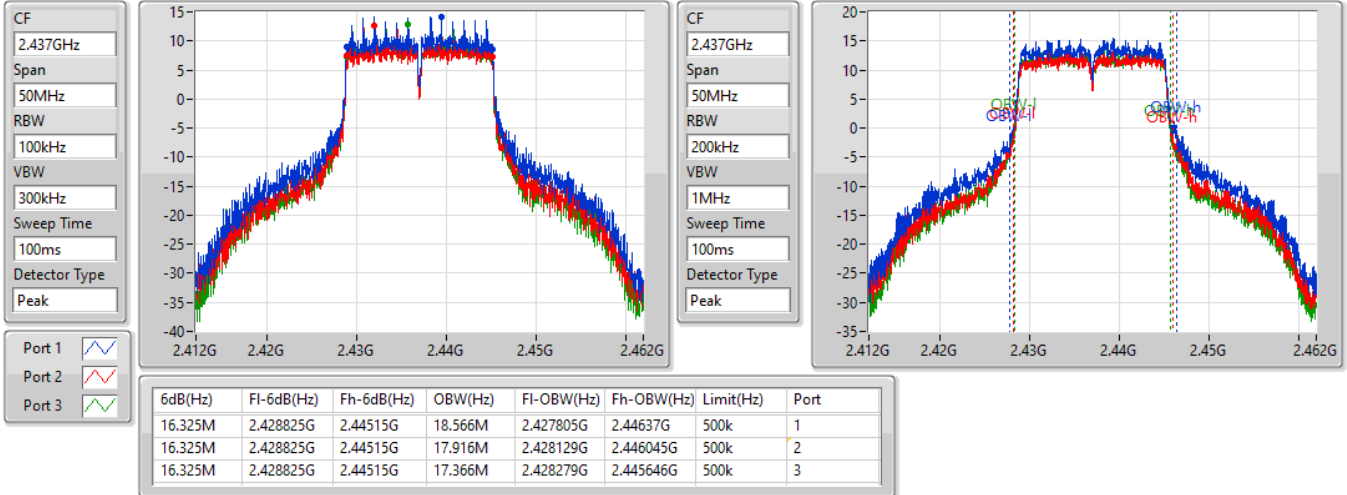

802.11g_Nss1,(6Mbps)_3TX
EBW
2412MHz

07/06/2021

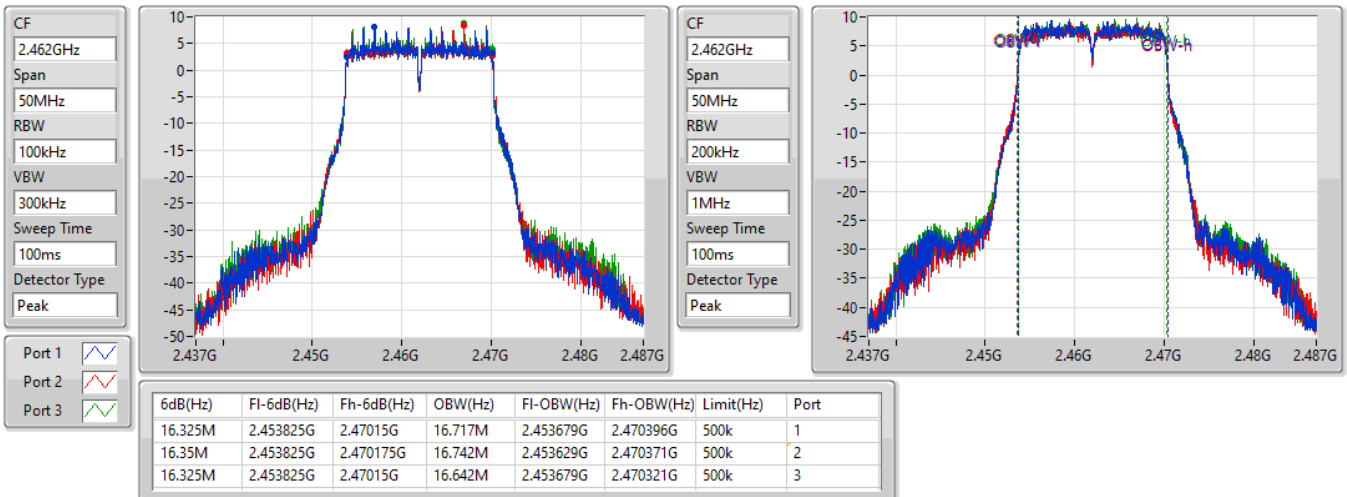


802.11g_Nss1,(6Mbps)_3TX
EBW
2437MHz

07/06/2021

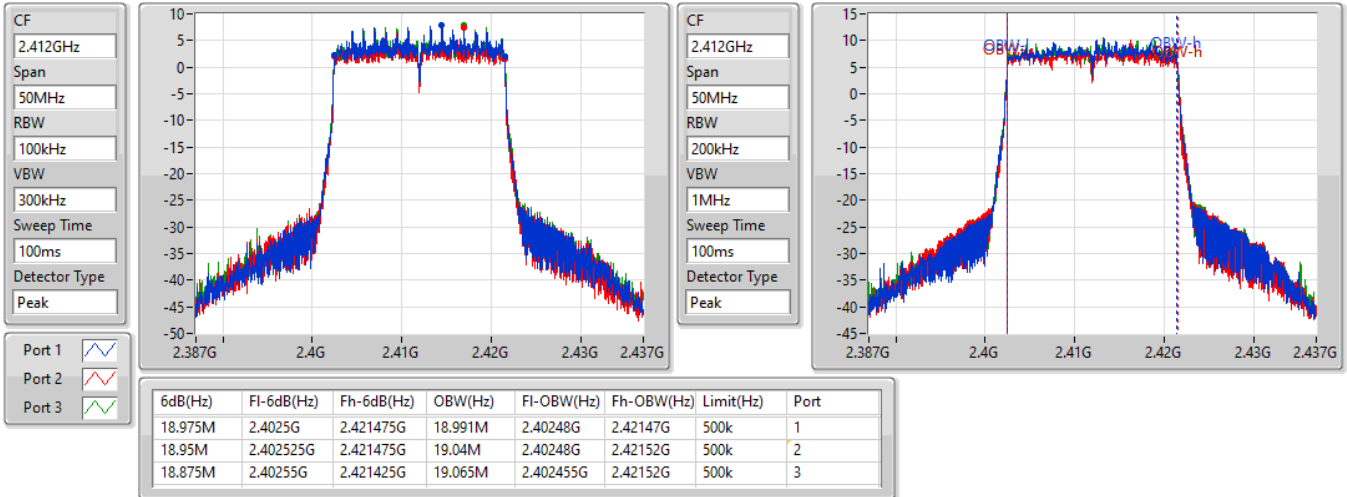

802.11g_Nss1,(6Mbps)_3TX
EBW
2462MHz

07/06/2021

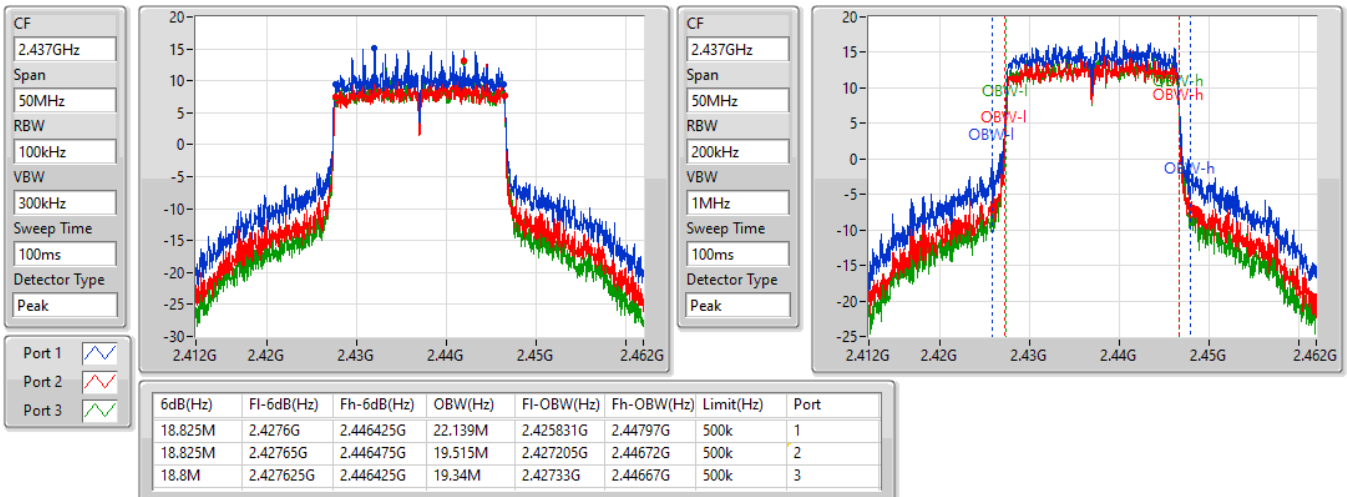


802.11ax HEW20_Nss1,(MCS0)_3TX
EBW
2412MHz

07/06/2021

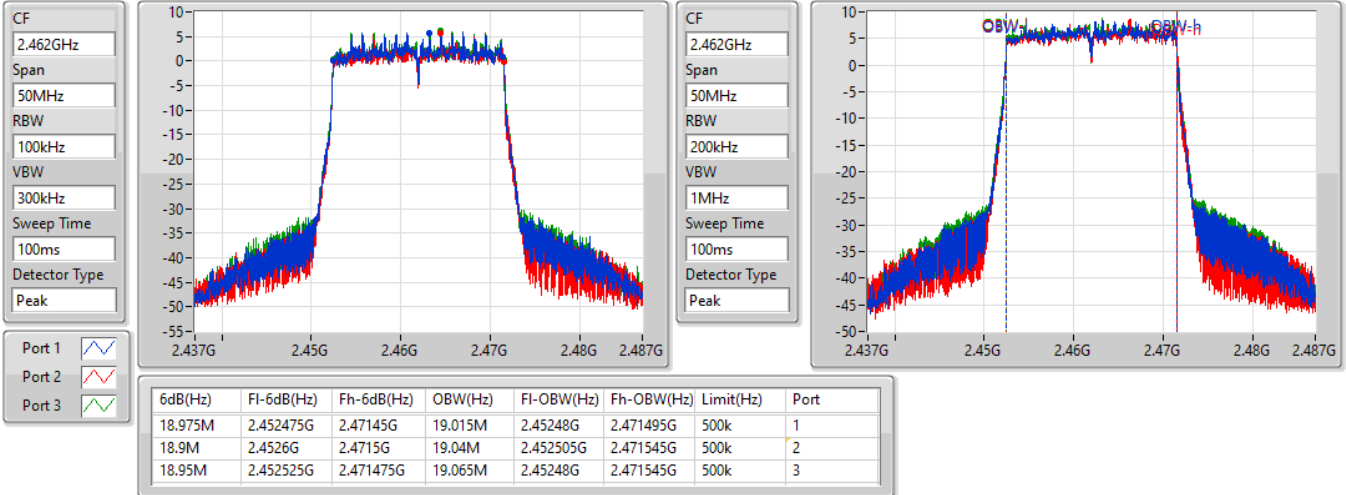

802.11ax HEW20_Nss1,(MCS0)_3TX
EBW
2437MHz

07/06/2021

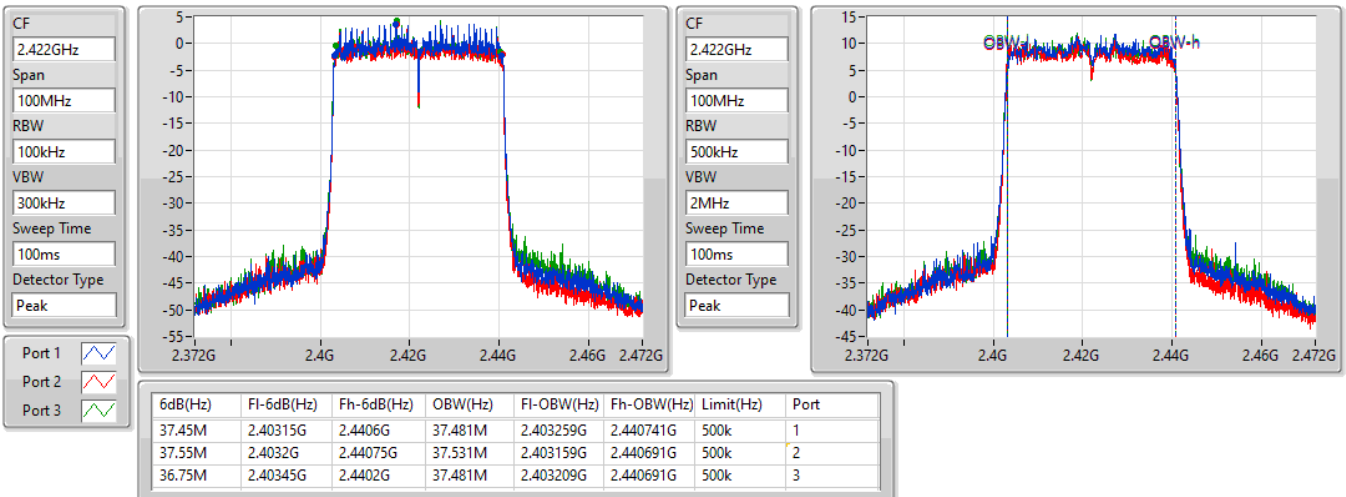


802.11ax HEW20_Nss1,(MCS0)_3TX
EBW
2462MHz

07/06/2021

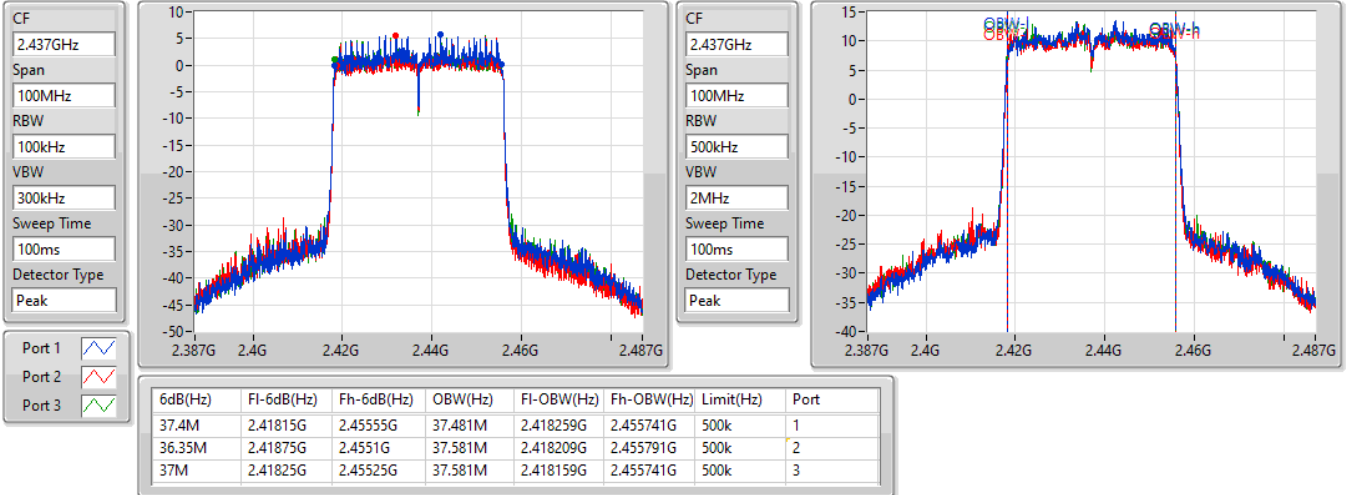

802.11ax HEW40_Nss1,(MCS0)_3TX
EBW
2422MHz

07/06/2021

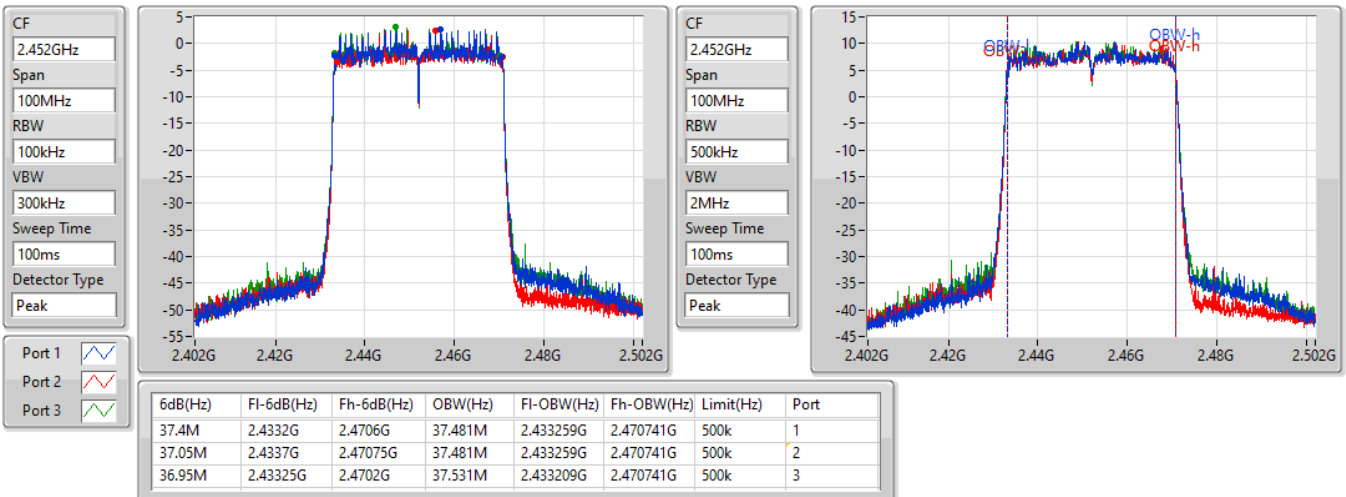


802.11ax HEW40_Nss1,(MCS0)_3TX
EBW
2437MHz

07/06/2021


802.11ax HEW40_Nss1,(MCS0)_3TX
EBW
2452MHz

07/06/2021





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_3TX	28.76	0.75162
802.11g_Nss1,(6Mbps)_3TX	29.27	0.84528
802.11ax HEW20_Nss1,(MCS0)_3TX	29.75	0.94406
802.11ax HEW40_Nss1,(MCS0)_3TX	24.89	0.30832

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	4.12	21.44	21.59	21.65	26.33	30.00
2437MHz	Pass	4.12	23.51	23.98	23.27	28.37	30.00
2462MHz	Pass	4.12	23.78	24.13	24.04	28.76	30.00
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	4.12	19.56	18.98	18.90	23.93	30.00
2417MHz	Pass	4.12	22.16	21.31	21.81	26.55	30.00
2437MHz	Pass	4.12	25.50	23.80	23.98	29.27	30.00
2457MHz	Pass	4.12	21.62	21.72	21.87	26.51	30.00
2462MHz	Pass	4.12	19.69	19.70	20.07	24.59	30.00
802.11ax HEW20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	4.12	20.02	18.94	19.67	24.34	30.00
2417MHz	Pass	4.12	22.03	21.81	21.62	26.59	30.00
2437MHz	Pass	4.12	26.15	24.29	24.21	29.75	30.00
2457MHz	Pass	4.12	20.94	20.99	21.26	25.84	30.00
2462MHz	Pass	4.12	17.79	17.62	18.23	22.66	30.00
802.11ax HEW40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	4.12	18.74	18.20	19.17	23.49	30.00
2437MHz	Pass	4.12	20.36	19.76	20.21	24.89	30.00
2452MHz	Pass	4.12	17.32	17.15	17.54	22.11	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	29.75	0.94406
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	24.89	0.30832

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	4.65	20.02	18.94	19.67	24.34	30.00
2417MHz	Pass	4.65	22.03	21.81	21.62	26.59	30.00
2437MHz	Pass	4.65	26.15	24.29	24.21	29.75	30.00
2457MHz	Pass	4.65	20.94	20.99	21.26	25.84	30.00
2462MHz	Pass	4.65	17.79	17.62	18.23	22.66	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	4.65	18.74	18.2	19.17	23.49	30.00
2437MHz	Pass	4.65	20.36	19.76	20.21	24.89	30.00
2452MHz	Pass	4.65	17.32	17.15	17.54	22.11	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_3TX	5.09
802.11g_Nss1,(6Mbps)_3TX	2.74
802.11ax HEW20_Nss1,(MCS0)_3TX	3.00
802.11ax HEW40_Nss1,(MCS0)_3TX	-4.38

RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	4.65	-0.24	-0.91	-0.85	2.11	8.00
2437MHz	Pass	4.65	1.59	1.19	1.60	4.40	8.00
2462MHz	Pass	4.65	0.00	1.87	1.12	5.09	8.00
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	4.65	-5.71	-6.80	-6.17	-2.59	8.00
2437MHz	Pass	4.65	-0.27	-2.36	-1.66	2.74	8.00
2462MHz	Pass	4.65	-5.90	-6.38	-6.35	-1.55	8.00
802.11ax HEW20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	4.65	-5.97	-5.58	-7.41	-2.37	8.00
2437MHz	Pass	4.65	0.01	-2.72	-1.19	3.00	8.00
2462MHz	Pass	4.65	-8.96	-7.22	-7.21	-3.91	8.00
802.11ax HEW40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	4.65	-10.92	-11.31	-10.74	-6.42	8.00
2437MHz	Pass	4.65	-9.01	-9.22	-8.61	-4.38	8.00
2452MHz	Pass	4.65	-11.85	-11.56	-11.35	-7.37	8.00

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

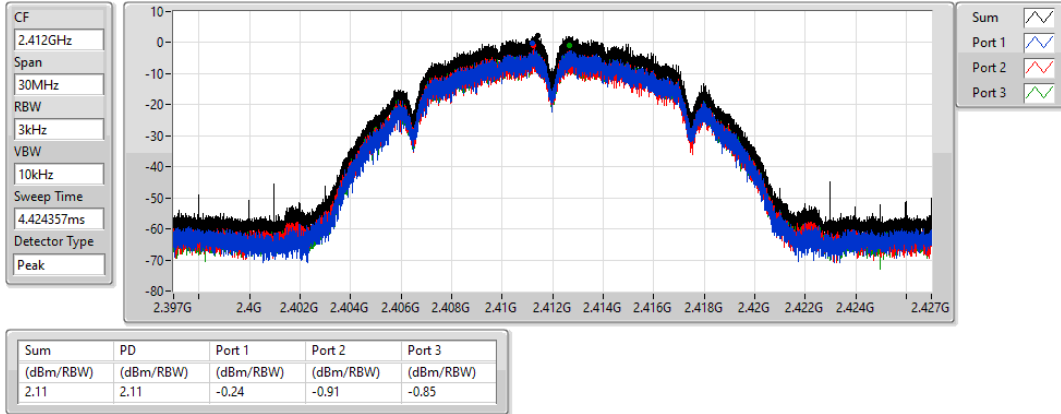
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_3TX

PSD

2412MHz

07/06/2021

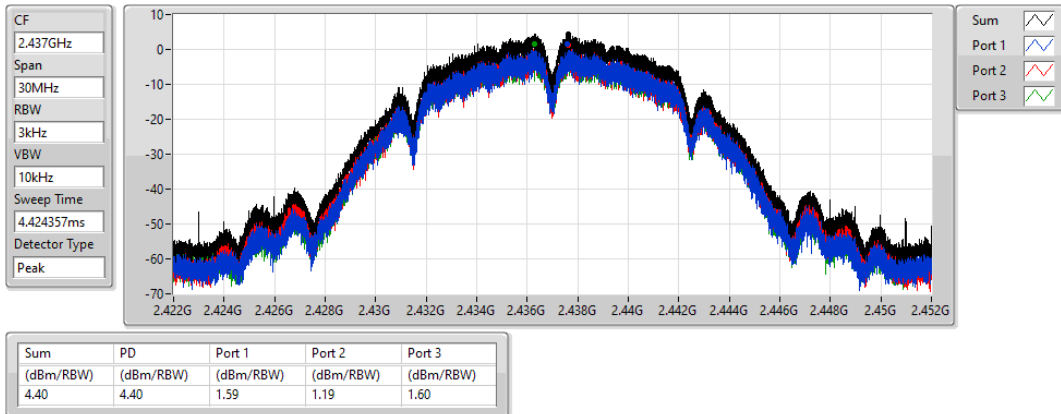


802.11b_Nss1,(1Mbps)_3TX

PSD

2437MHz

07/06/2021

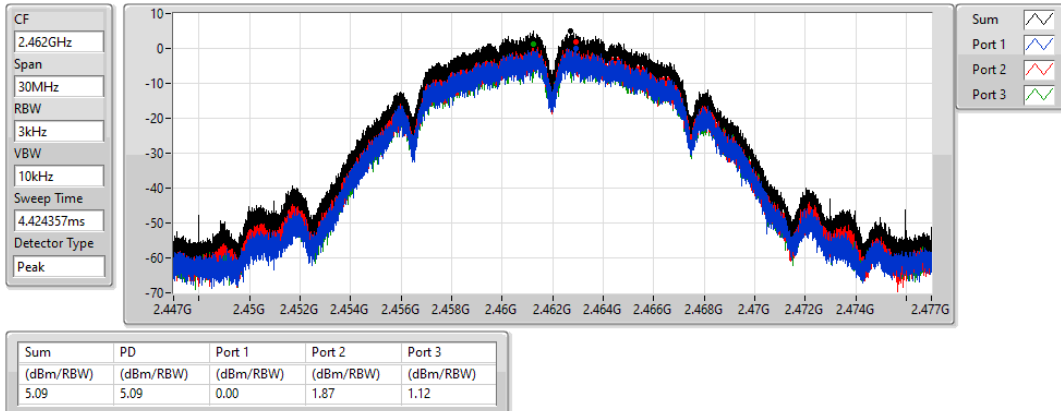


802.11b_Nss1,(1Mbps)_3TX

PSD

2462MHz

07/06/2021

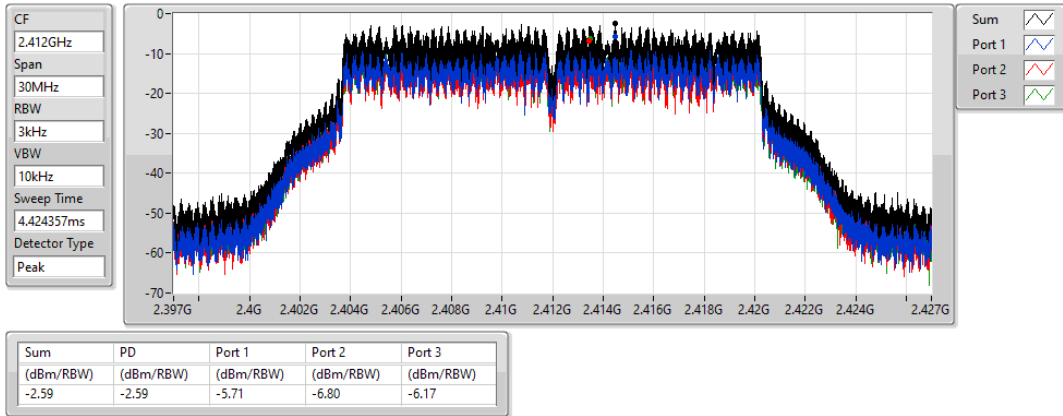


802.11g_Nss1,(6Mbps)_3TX

2412MHz

PSD

07/06/2021

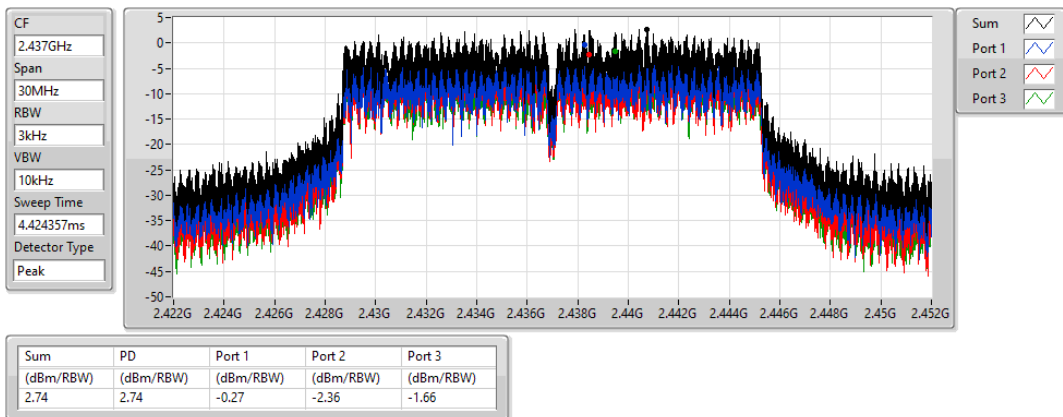


802.11g_Nss1,(6Mbps)_3TX

2437MHz

PSD

07/06/2021

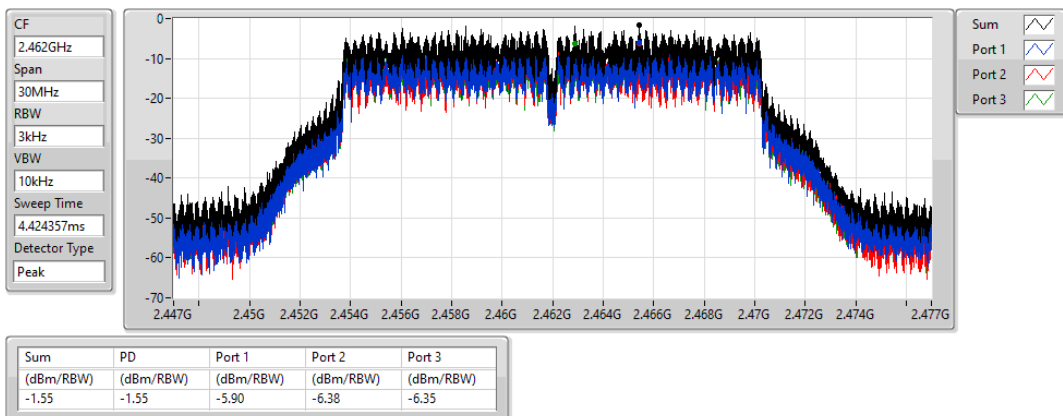


802.11g_Nss1,(6Mbps)_3TX

2462MHz

PSD

07/06/2021

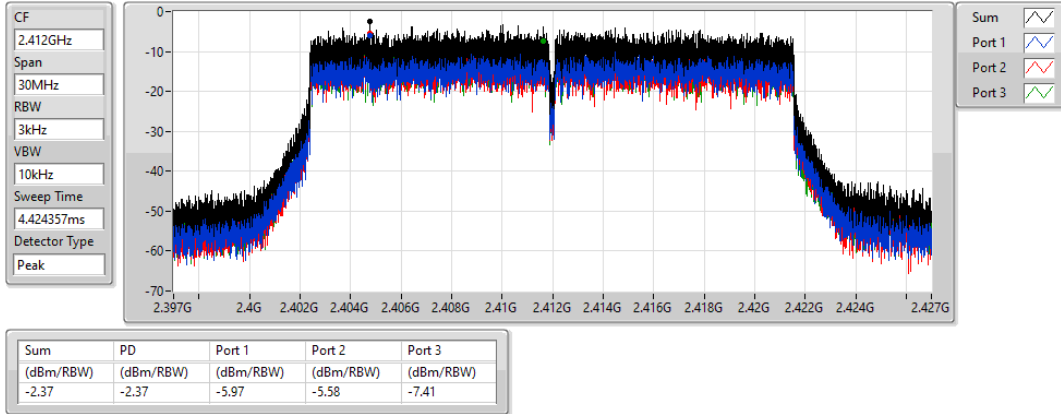


802.11ax HEW20_Nss1,(MCS0)_3TX

PSD

2412MHz

07/06/2021

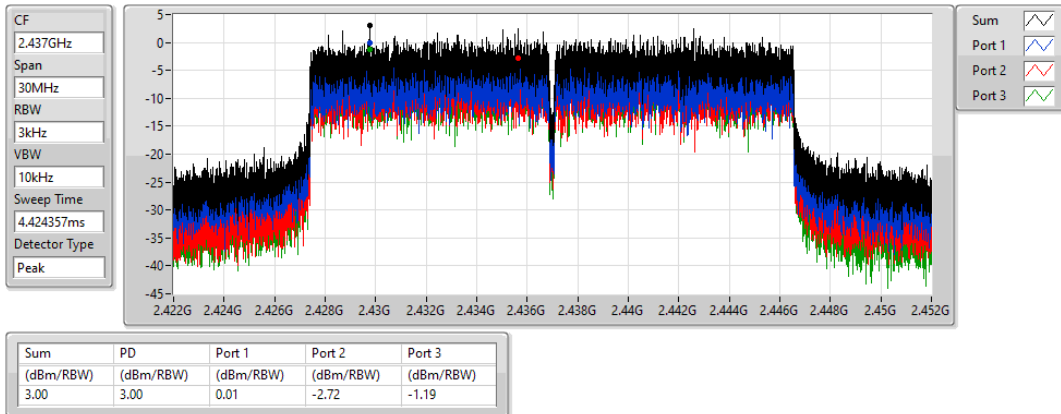


802.11ax HEW20_Nss1,(MCS0)_3TX

PSD

2437MHz

07/06/2021

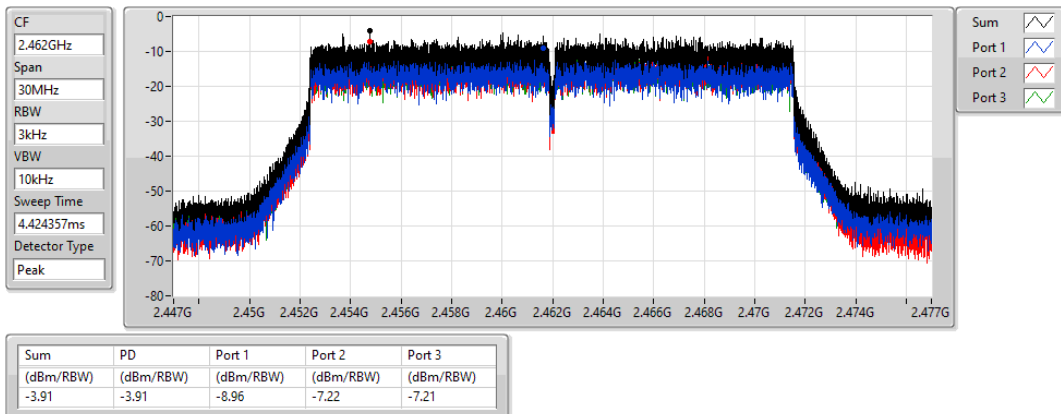


802.11ax HEW20_Nss1,(MCS0)_3TX

PSD

2462MHz

07/06/2021

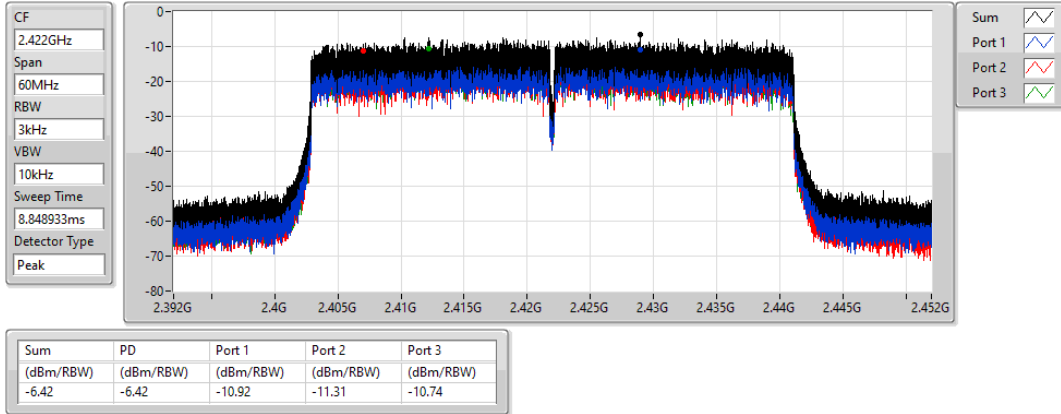


802.11ax HEW40_Nss1,(MCS0)_3TX

PSD

2422MHz

07/06/2021

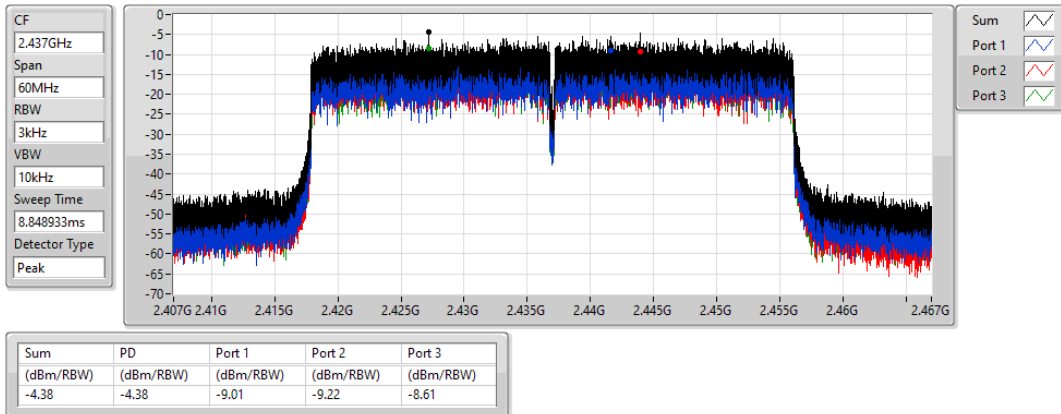


802.11ax HEW40_Nss1,(MCS0)_3TX

PSD

2437MHz

07/06/2021

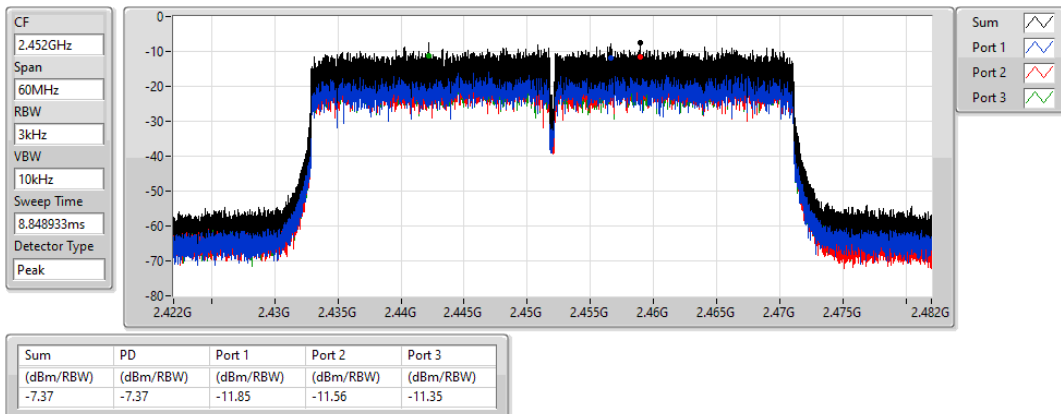


802.11ax HEW40_Nss1,(MCS0)_3TX

PSD

2452MHz

07/06/2021



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	2.4625G	16.57	-13.43	223.97M	-29.64	2.39386G	-47.48	2.4835G	-44.49	2.48834G	-42.29	2.56002G	-45.37	2
802.11g_Nss1,(6Mbps)_3TX	Pass	2.43824G	14.60	-15.40	223.97M	-32.59	2.39986G	-29.15	2.4G	-33.61	2.485G	-47.54	24.4999G	-44.75	1
802.11ax HEW20_Nss1,(MCS0)_3TX	Pass	2.43198G	15.48	-14.52	223.97M	-31.56	2.39942G	-27.02	2.4G	-33.41	2.50488G	-47.94	16.95622G	-45.10	2
802.11ax HEW40_Nss1,(MCS0)_3TX	Pass	2.43198G	6.13	-23.87	223.79M	-31.76	2.39732G	-48.99	2.4835G	-48.35	2.48642G	-45.39	16.53863G	-44.25	2

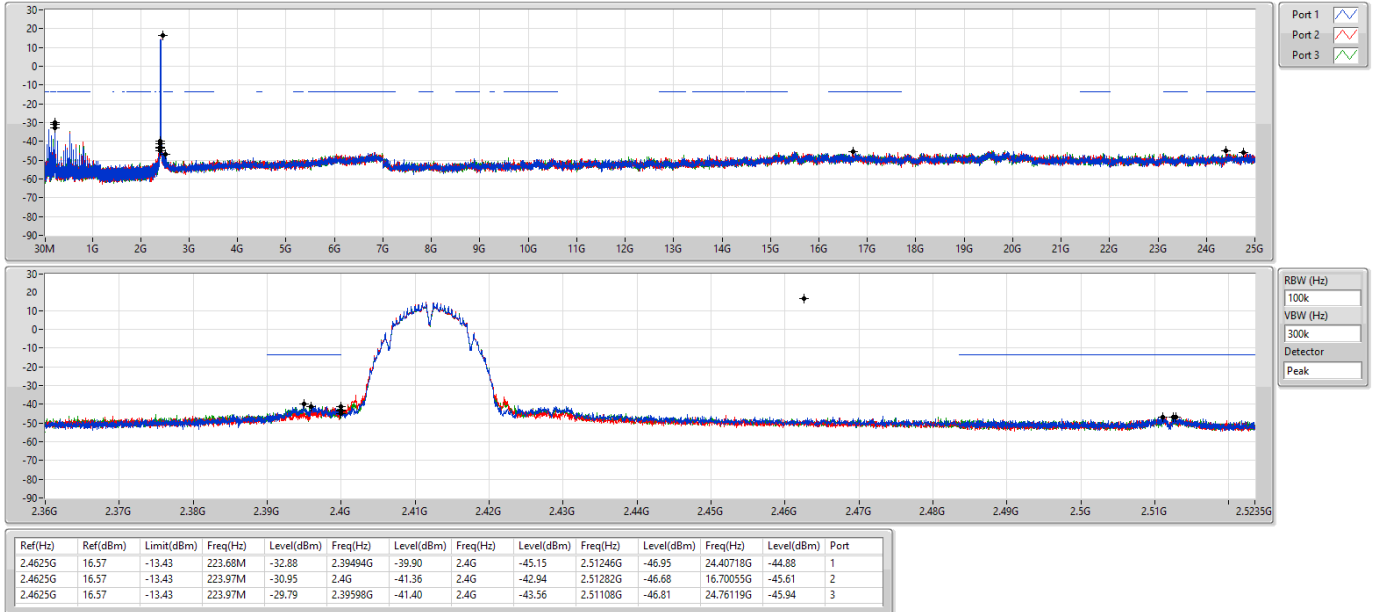
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4625G	16.57	-13.43	223.68M	-32.88	2.39494G	-39.90	2.4G	-45.15	2.51246G	-46.95	24.40718G	-44.88	1
2412MHz	Pass	2.4625G	16.57	-13.43	223.97M	-30.95	2.4G	-41.36	2.4G	-42.94	2.51282G	-46.68	16.70055G	-45.61	2
2412MHz	Pass	2.4625G	16.57	-13.43	223.97M	-29.79	2.39598G	-41.40	2.4G	-43.56	2.51108G	-46.81	24.76119G	-45.94	3
2437MHz	Pass	2.4625G	16.57	-13.43	223.97M	-31.40	2.39934G	-45.97	2.4G	-48.59	2.49238G	-45.81	10.09527G	-43.63	1
2437MHz	Pass	2.4625G	16.57	-13.43	223.97M	-30.28	2.39534G	-45.77	2.4835G	-48.20	2.51564G	-45.34	5.18135G	-42.94	2
2437MHz	Pass	2.4625G	16.57	-13.43	223.97M	-32.25	2.3979G	-46.70	2.4835G	-46.37	2.48798G	-45.44	16.70898G	-45.17	3
2462MHz	Pass	2.4625G	16.57	-13.43	223.97M	-30.76	2.39524G	-47.65	2.4835G	-45.92	2.4886G	-43.44	24.4409G	-45.56	1
2462MHz	Pass	2.4625G	16.57	-13.43	223.97M	-29.64	2.39386G	-47.48	2.4835G	-44.49	2.48834G	-42.29	2.56002G	-45.37	2
2462MHz	Pass	2.4625G	16.57	-13.43	223.97M	-33.52	2.39032G	-47.24	2.4835G	-45.59	2.48398G	-43.21	15.27329G	-45.86	3
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	14.60	-15.40	223.97M	-32.59	2.39986G	-29.15	2.4G	-33.61	2.485G	-47.54	24.4999G	-44.75	1
2412MHz	Pass	2.43824G	14.60	-15.40	223.97M	-31.73	2.39946G	-29.21	2.4G	-31.87	2.51546G	-47.70	16.79327G	-45.30	2
2412MHz	Pass	2.43824G	14.60	-15.40	223.68M	-33.79	2.39982G	-29.40	2.4G	-30.69	2.51816G	-48.44	16.78484G	-45.72	3
2437MHz	Pass	2.43824G	14.60	-15.40	223.68M	-31.37	2.3998G	-36.73	2.4G	-39.47	2.48364G	-42.19	16.43926G	-45.15	1
2437MHz	Pass	2.43824G	14.60	-15.40	223.68M	-31.83	2.3998G	-37.37	2.4G	-39.45	2.48418G	-41.68	5.95117G	-42.38	2
2437MHz	Pass	2.43824G	14.60	-15.40	223.97M	-31.48	2.3995G	-40.61	2.4G	-44.75	2.48974G	-43.84	16.77641G	-45.15	3
2462MHz	Pass	2.43824G	14.60	-15.40	223.68M	-32.01	2.3994G	-48.70	2.4835G	-36.92	2.48354G	-37.61	16.74831G	-44.72	1
2462MHz	Pass	2.43824G	14.60	-15.40	223.97M	-30.45	2.39548G	-49.50	2.4835G	-40.02	2.48358G	-37.70	6.78561G	-44.54	2
2462MHz	Pass	2.43824G	14.60	-15.40	223.97M	-30.81	2.39774G	-48.36	2.4835G	-35.73	2.4835G	-35.52	16.82417G	-45.76	3
802.11ax HEW20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43198G	15.48	-14.52	223.97M	-33.97	2.39968G	-27.41	2.4G	-32.68	2.48764G	-48.00	6.98509G	-46.20	1
2412MHz	Pass	2.43198G	15.48	-14.52	223.97M	-31.56	2.39942G	-27.02	2.4G	-33.41	2.50488G	-47.94	16.95622G	-45.10	2
2412MHz	Pass	2.43198G	15.48	-14.52	223.97M	-31.82	2.39854G	-27.60	2.4G	-29.14	2.50536G	-48.36	6.76594G	-45.69	3
2437MHz	Pass	2.43198G	15.48	-14.52	223.97M	-32.63	2.39952G	-32.32	2.4G	-34.65	2.4835G	-38.82	16.88317G	-45.61	1
2437MHz	Pass	2.43198G	15.48	-14.52	223.97M	-32.06	2.39954G	-35.90	2.4G	-37.46	2.48374G	-41.38	5.95398G	-43.53	2
2437MHz	Pass	2.43198G	15.48	-14.52	223.97M	-32.43	2.39876G	-38.65	2.4G	-41.71	2.4835G	-43.96	6.70975G	-45.21	3
2462MHz	Pass	2.43198G	15.48	-14.52	223.97M	-30.37	2.39694G	-50.01	2.4835G	-41.78	2.48378G	-41.05	16.84103G	-45.89	1
2462MHz	Pass	2.43198G	15.48	-14.52	223.97M	-31.70	2.39354G	-49.19	2.4835G	-41.11	2.48364G	-40.12	16.4505G	-44.58	2
2462MHz	Pass	2.43198G	15.48	-14.52	95.82M	-32.61	2.39994G	-48.79	2.4835G	-45.42	2.48354G	-40.15	5.24035G	-32.37	3
802.11ax HEW40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	6.13	-23.87	223.79M	-32.06	2.39688G	-38.55	2.4G	-42.49	2.5105G	-48.05	24.383G	-45.84	1
2422MHz	Pass	2.43198G	6.13	-23.87	223.79M	-32.00	2.39776G	-35.27	2.4G	-40.64	2.4901G	-47.71	5.95141G	-44.33	2
2422MHz	Pass	2.43198G	6.13	-23.87	223.79M	-31.85	2.39452G	-38.50	2.4G	-40.46	2.5135G	-48.46	16.44608G	-45.78	3
2437MHz	Pass	2.43198G	6.13	-23.87	223.79M	-31.88	2.39952G	-33.46	2.4G	-38.73	2.48386G	-40.60	16.7602G	-45.71	1
2437MHz	Pass	2.43198G	6.13	-23.87	223.79M	-32.67	2.39948G	-32.67	2.4G	-36.21	2.4841G	-42.95	5.19418G	-32.46	2
2437MHz	Pass	2.43198G	6.13	-23.87	223.79M	-32.64	2.39952G	-33.63	2.4G	-36.50	2.48446G	-40.47	17.46975G	-45.83	3
2452MHz	Pass	2.43198G	6.13	-23.87	223.79M	-32.20	2.4G	-47.70	2.4835G	-45.13	2.48942G	-42.74	16.763G	-45.48	1
2452MHz	Pass	2.43198G	6.13	-23.87	223.79M	-31.76	2.39732G	-48.99	2.4835G	-48.35	2.48642G	-45.39	16.53863G	-44.25	2
2452MHz	Pass	2.43198G	6.13	-23.87	95.84M	-32.81	2.39044G	-49.11	2.4835G	-45.16	2.48442G	-41.72	24.43067G	-46.28	3

802.11b_Nss1,(1Mbps)_3TX

CSE NdB

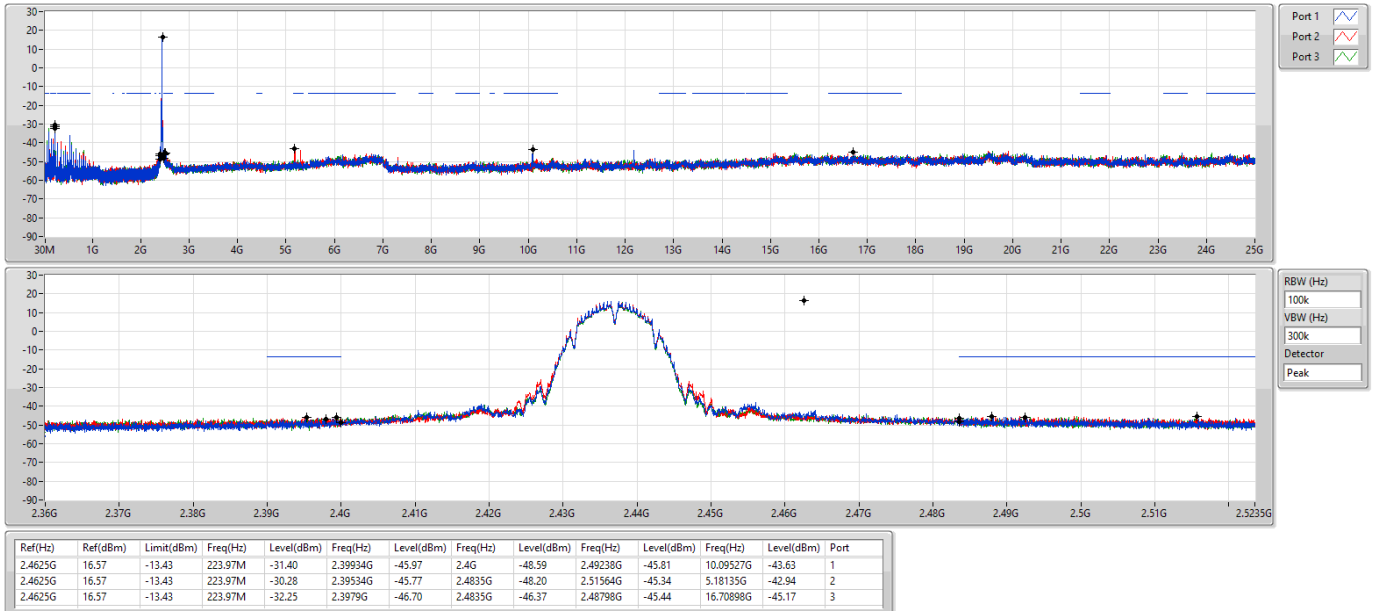
2412MHz



802.11b_Nss1,(1Mbps)_3TX

CSE NdB

2437MHz

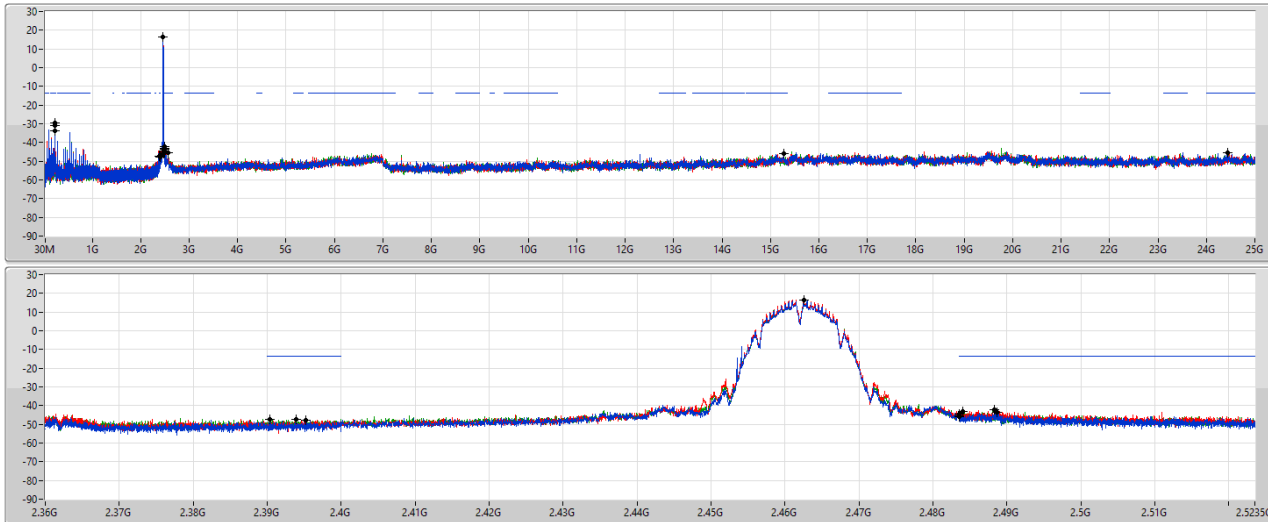


802.11b_Nss1,(1Mbps)_3TX

2462MHz

CSE NdB

07/06/2021



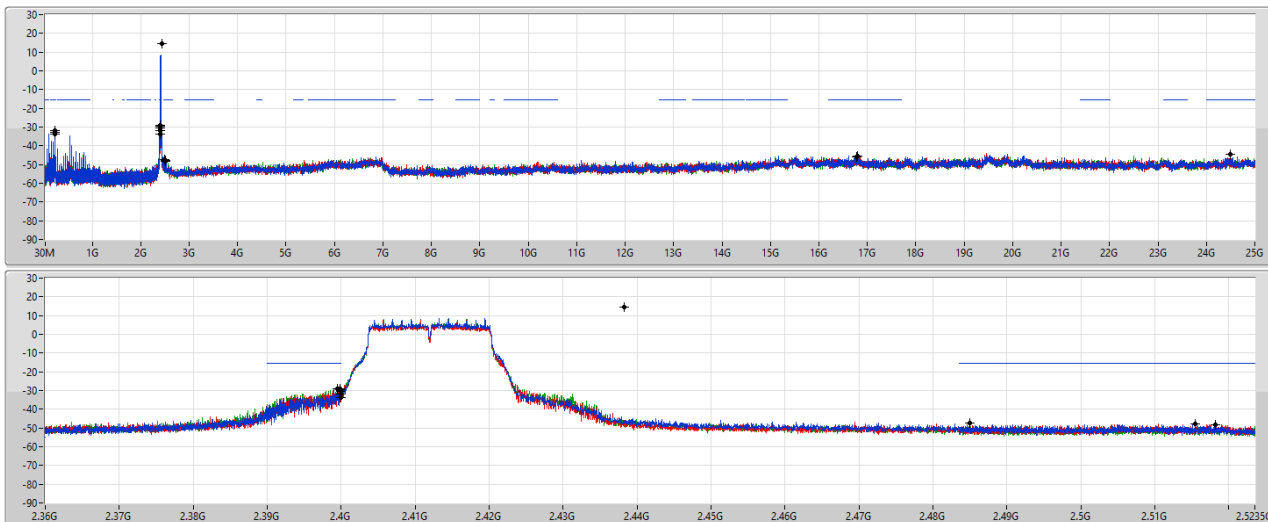
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4625G	16.57	-13.43	223.97M	-30.76	2.39524G	-47.65	2.4835G	-45.92	2.4886G	-43.44	2.4409G	-45.56	1
2.4625G	16.57	-13.43	223.97M	-29.64	2.39386G	-47.48	2.4835G	-44.49	2.48834G	-42.29	2.56002G	-45.37	2
2.4625G	16.57	-13.43	223.97M	-33.52	2.39032G	-47.24	2.4835G	-45.59	2.48398G	-43.21	15.27329G	-45.86	3

802.11g_Nss1,(6Mbps)_3TX

2412MHz

CSE NdB

07/06/2021



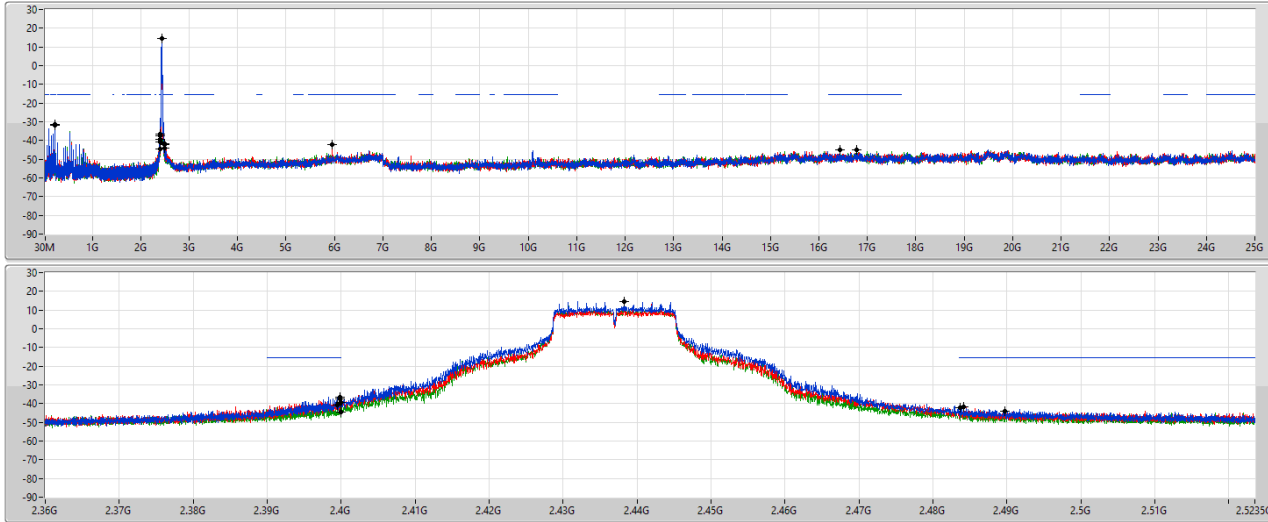
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2.43824G	14.60	-15.40	223.97M	-32.59	2.39986G	-29.15	2.4G	-33.61	2.485G	-47.54	2.4999G	-44.75	1
2.43824G	14.60	-15.40	223.97M	-31.73	2.39946G	-29.21	2.4G	-31.87	2.51546G	-47.70	16.79327G	-45.30	2
2.43824G	14.60	-15.40	223.68M	-33.79	2.39982G	-29.40	2.4G	-30.69	2.51816G	-48.44	16.78484G	-45.72	3

802.11g_Nss1,(6Mbps)_3TX

CSE NdB

2437MHz

07/06/2021



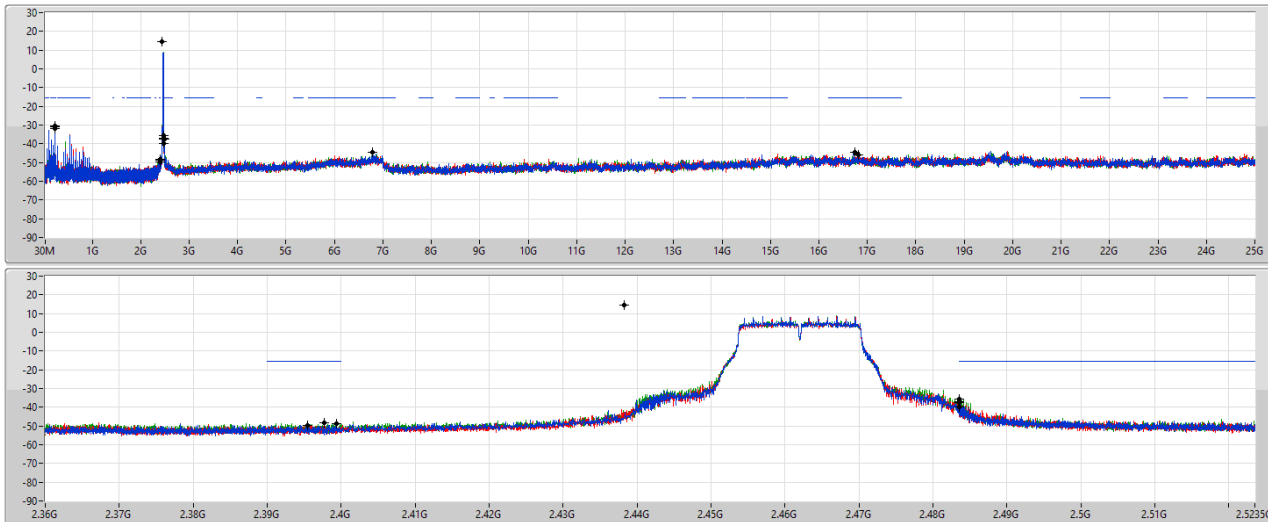
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2.43824G	14.60	-15.40	223.68M	-31.37	2.3998G	-36.73	2.4G	-39.47	2.48364G	-42.19	16.43926G	-45.15	1
2.43824G	14.60	-15.40	223.68M	-31.83	2.3998G	-37.37	2.4G	-39.45	2.48418G	-41.68	5.95117G	-42.38	2
2.43824G	14.60	-15.40	223.97M	-31.48	2.3995G	-40.61	2.4G	-44.75	2.48974G	-43.84	16.77641G	-45.15	3

802.11g_Nss1,(6Mbps)_3TX

CSE NdB

2462MHz

07/06/2021



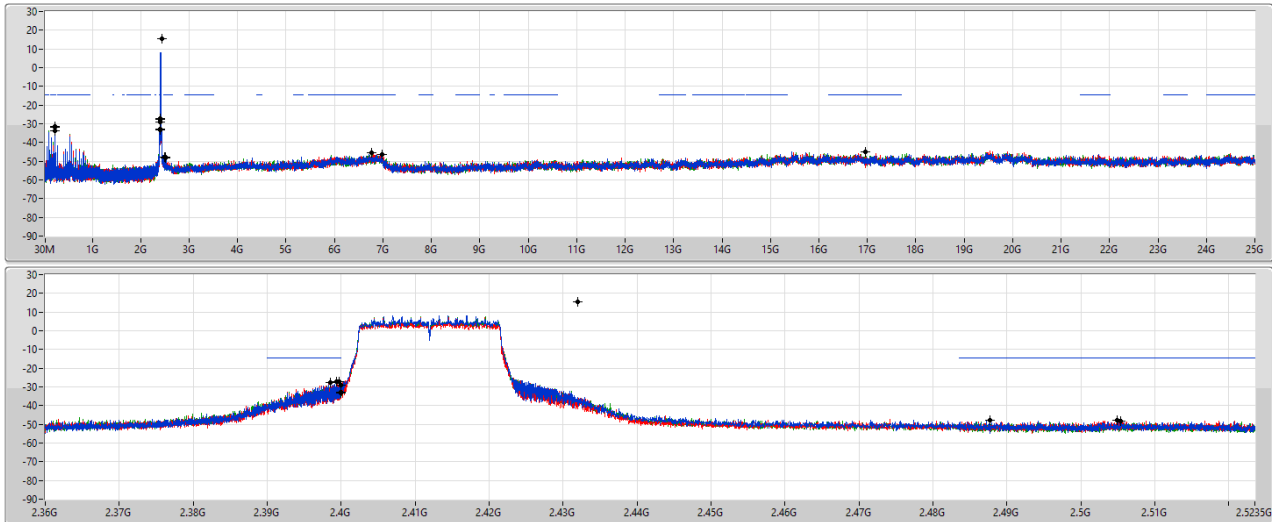
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2.43824G	14.60	-15.40	223.68M	-32.01	2.3994G	-48.70	2.4835G	-36.92	2.48354G	-37.61	16.74831G	-44.72	1
2.43824G	14.60	-15.40	223.97M	-30.45	2.39548G	-49.50	2.4835G	-40.02	2.48358G	-37.70	6.78561G	-44.54	2
2.43824G	14.60	-15.40	223.97M	-30.81	2.39774G	-48.36	2.4835G	-35.73	2.4835G	-35.52	16.82417G	-45.76	3

802.11ax HEW20_Nss1,(MCS0)_3TX

CSE NdB

2412MHz

07/06/2021



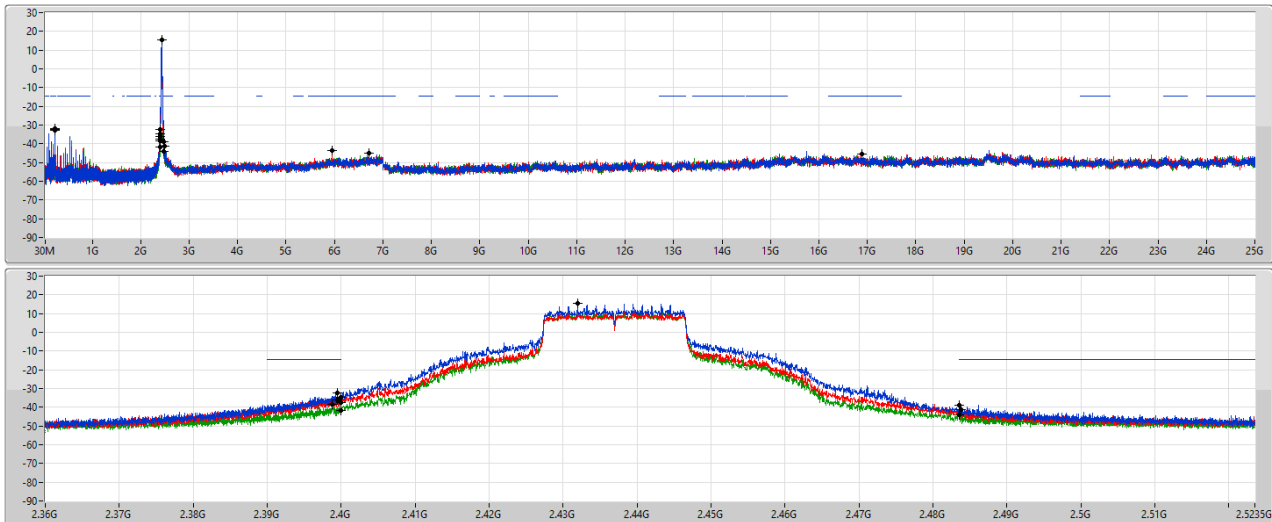
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2.43198G	15.48	-14.52	223.97M	-33.97	2.39968G	-27.41	2.4G	-32.68	2.48764G	-48.00	6.98509G	-46.20	1
2.43198G	15.48	-14.52	223.97M	-31.56	2.39942G	-27.02	2.4G	-33.41	2.50488G	-47.94	16.95622G	-45.10	2
2.43198G	15.48	-14.52	223.97M	-31.82	2.39854G	-27.60	2.4G	-29.14	2.50536G	-48.36	6.76594G	-45.69	3

802.11ax HEW20_Nss1,(MCS0)_3TX

CSE NdB

2437MHz

07/06/2021



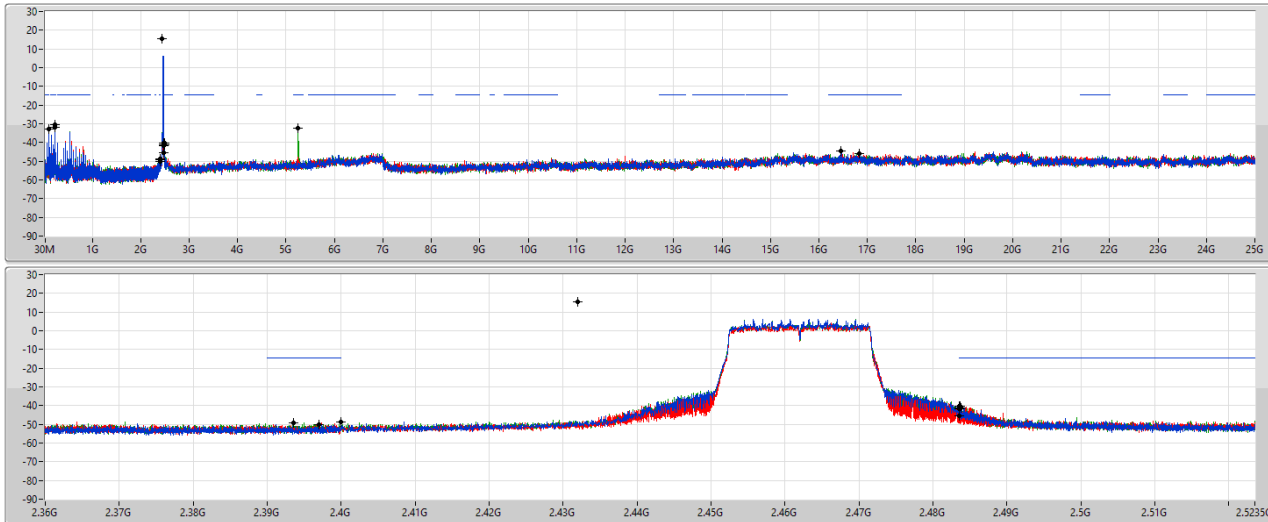
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2.43198G	15.48	-14.52	223.97M	-32.63	2.39952G	-32.32	2.4G	-34.65	2.4835G	-38.82	16.88317G	-45.61	1
2.43198G	15.48	-14.52	223.97M	-32.06	2.39954G	-35.90	2.4G	-37.46	2.48374G	-41.38	5.95398G	-43.53	2
2.43198G	15.48	-14.52	223.97M	-32.43	2.39876G	-38.65	2.4G	-41.71	2.4835G	-43.96	6.70975G	-45.21	3

802.11ax HEW20_Nss1,(MCS0)_3TX

2462MHz

CSE NdB

07/06/2021



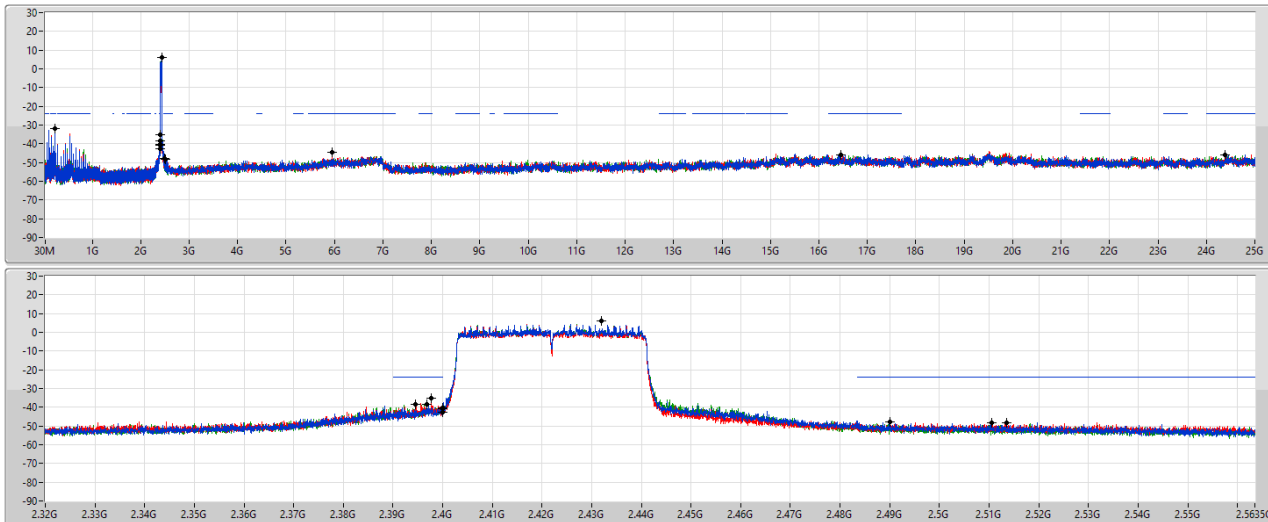
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2.43198G	15.48	-14.52	223.97M	-30.37	2.39694G	-50.01	2.4835G	-41.78	2.48378G	-41.05	16.84103G	-45.89	1
2.43198G	15.48	-14.52	223.97M	-31.70	2.39354G	-49.19	2.4835G	-41.11	2.48364G	-40.12	16.4505G	-44.58	2
2.43198G	15.48	-14.52	95.82M	-32.61	2.39994G	-48.79	2.4835G	-45.42	2.48354G	-40.15	5.24035G	-32.37	3

802.11ax HEW40_Nss1,(MCS0)_3TX

2422MHz

CSE NdB

07/06/2021



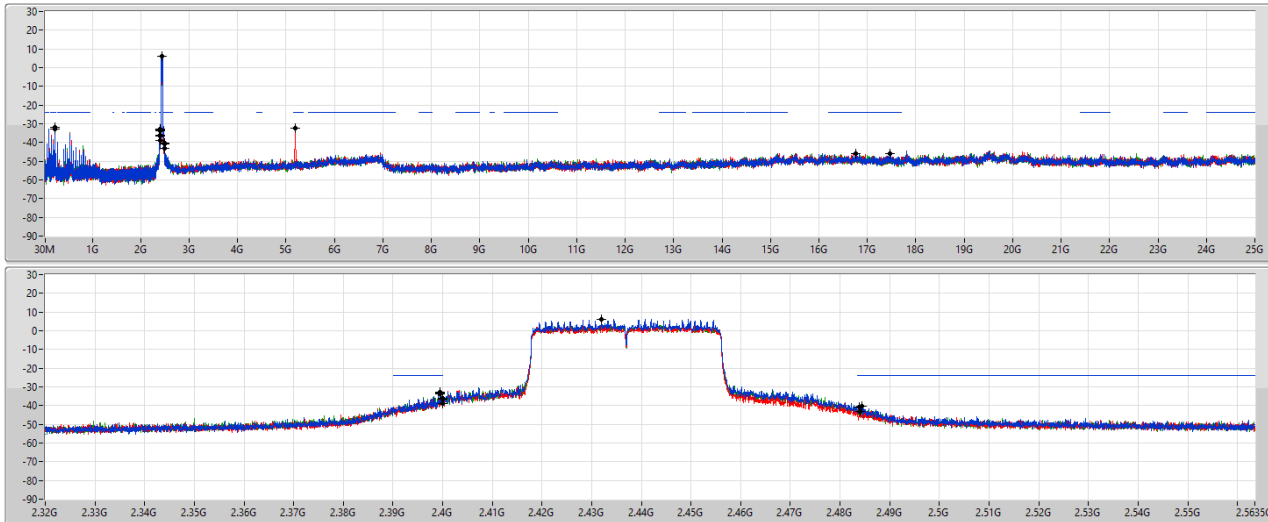
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	6.13	-23.87	223.79M	-32.06	2.39688G	-38.55	2.4G	-42.49	2.5105G	-48.05	24.383G	-45.84	1
2.43198G	6.13	-23.87	223.79M	-32.00	2.39776G	-35.27	2.4G	-40.64	2.4901G	-47.71	5.95141G	-44.33	2
2.43198G	6.13	-23.87	223.79M	-31.85	2.39452G	-38.50	2.4G	-40.46	2.5135G	-48.46	16.44608G	-45.78	3

802.11ax HEW40_Nss1,(MCS0)_3TX

CSE NdB

2437MHz

07/06/2021



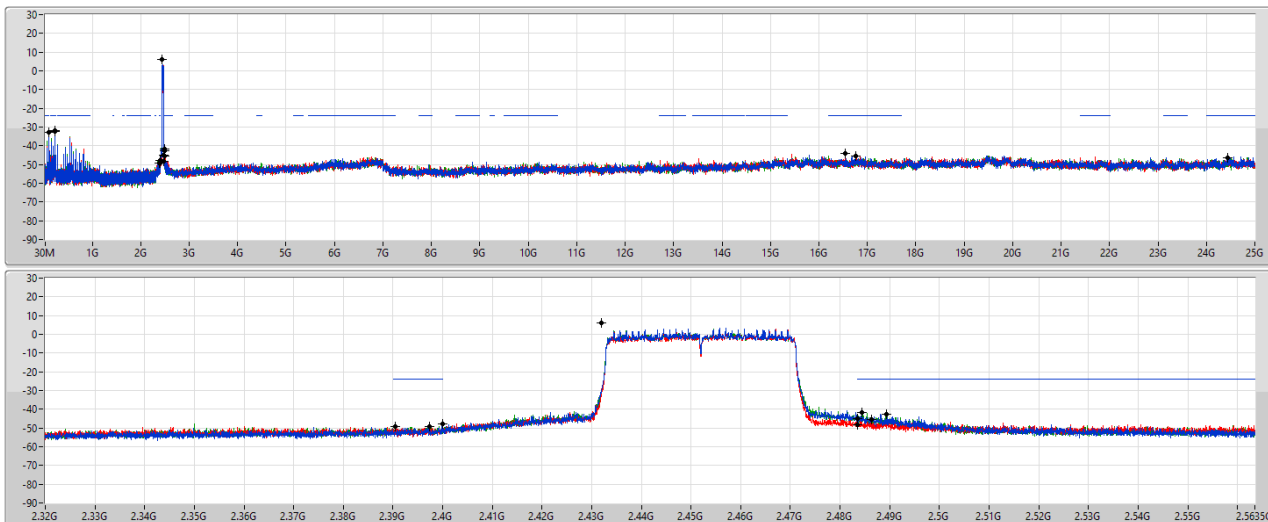
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	6.13	-23.87	223.79M	-31.88	2.39952G	-33.46	2.4G	-38.73	2.48386G	-40.60	16.7602G	-45.71	1
2.43198G	6.13	-23.87	223.79M	-32.67	2.39948G	-32.67	2.4G	-36.21	2.4841G	-42.95	5.19418G	-32.46	2
2.43198G	6.13	-23.87	223.79M	-32.64	2.39952G	-33.63	2.4G	-36.50	2.48446G	-40.47	17.46975G	-45.83	3

802.11ax HEW40_Nss1,(MCS0)_3TX

CSE NdB

2452MHz

07/06/2021



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
2.43198G	6.13	-23.87	223.79M	-32.20	2.4G	-47.70	2.4835G	-45.13	2.48942G	-42.74	16.763G	-45.48	1
2.43198G	6.13	-23.87	223.79M	-31.76	2.39732G	-48.99	2.4835G	-48.35	2.48642G	-45.39	16.53863G	-44.25	2
2.43198G	6.13	-23.87	95.84M	-32.81	2.39044G	-49.11	2.4835G	-45.16	2.48442G	-41.72	24.43067G	-46.28	3



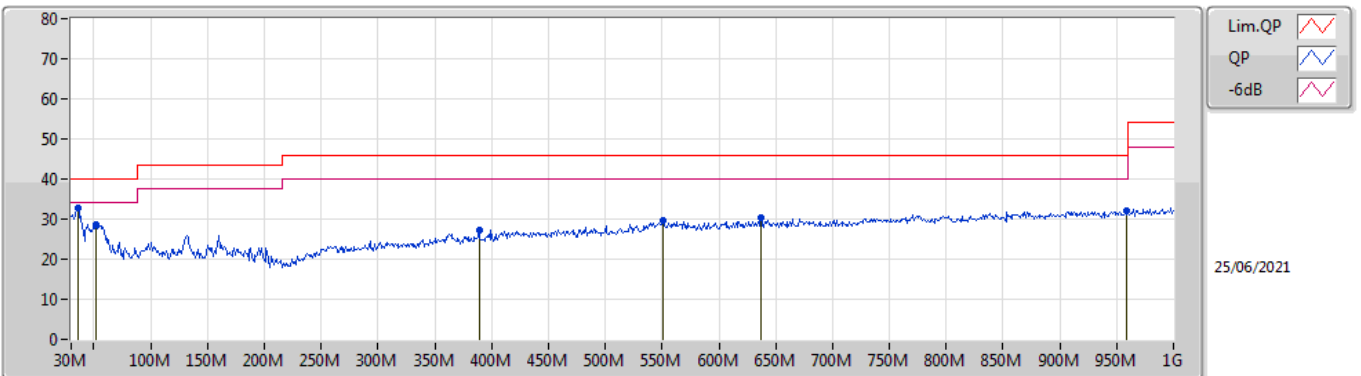
Radiated Emissions below 1GHz

Appendix F.1

Summary

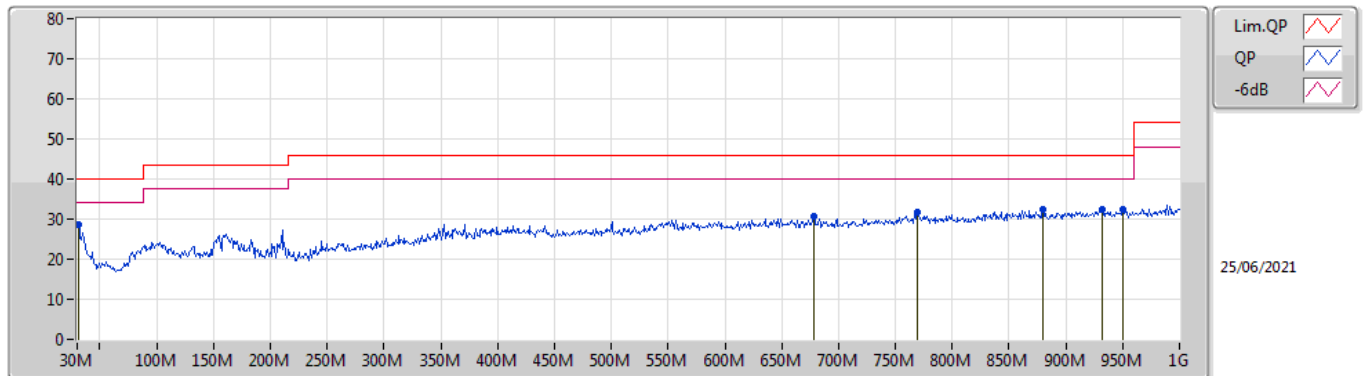
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	35.82M	32.92	40.00	-7.08	Vertical

Radiated Emissions below 1GHz_Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	35.82M	32.92	40.00	-7.08	-7.06	3	Vertical	56	1.25	"Worst"	39.98	21.20	0.22	28.48
PK	51.34M	28.46	40.00	-11.54	-14.49	3	Vertical	360	1.00	-	42.95	13.60	0.40	28.49
PK	388.9M	27.21	46.00	-18.79	-5.54	3	Vertical	281	1.25	-	32.75	20.91	2.06	28.51
PK	550.89M	29.76	46.00	-16.24	-2.16	3	Vertical	163	1.50	-	31.92	24.62	2.60	29.38
PK	637.22M	30.32	46.00	-15.68	-2.03	3	Vertical	35	1.00	-	32.35	24.46	2.85	29.34
PK	958.29M	31.94	46.00	-14.06	0.93	3	Vertical	45	1.50	-	31.01	25.94	3.53	28.54

Radiated Emissions below 1GHz_Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30.97M	28.69	40.00	-11.31	-4.89	3	Horizontal	255	2.00	"Worst"	33.58	23.40	0.20	28.49
PK	677.96M	30.60	46.00	-15.40	-1.83	3	Horizontal	215	1.50	-	32.43	24.55	2.96	29.34
PK	769.14M	31.59	46.00	-14.41	-0.81	3	Horizontal	0	1.00	-	32.40	25.11	3.20	29.12
PK	879.72M	32.53	46.00	-13.47	0.19	3	Horizontal	150	1.50	-	32.34	25.53	3.46	28.80
PK	932.1M	32.49	46.00	-13.51	0.66	3	Horizontal	360	1.25	-	31.83	25.77	3.50	28.61
PK	950.53M	32.44	46.00	-13.56	0.87	3	Horizontal	18	1.00	-	31.57	25.93	3.50	28.56



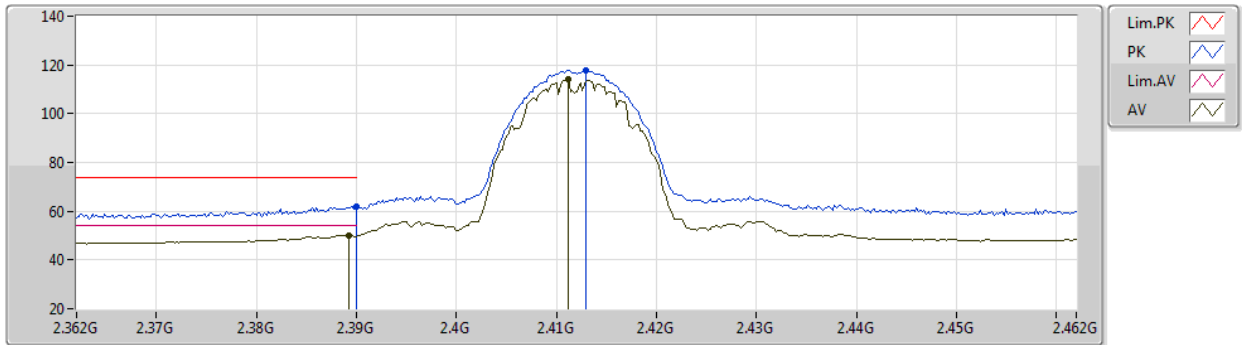
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1.(6Mbps)_3TX	Pass	AV	2.4844G	53.98	54.00	-0.02	3	Vertical	50	2.47	-

802.11b_Nss1,(1Mbps)_3TX

04/06/2021

2412MHz_TX



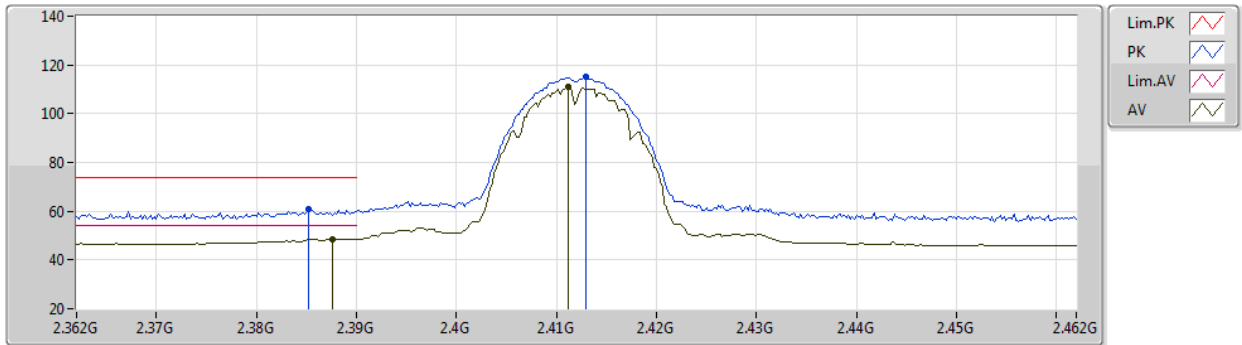
EUT Y_3TX
Setting 87
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	61.97	74.00	-12.03	30.16	3	Vertical	35	2.50	-	28.32	3.49	-
AV	2.3892G	50.19	54.00	-3.81	18.38	3	Vertical	35	2.50	-	28.32	3.49	-
PK	2.413G	117.91	Inf	-Inf	86.07	3	Vertical	35	2.50	-	28.33	3.51	-
AV	2.4112G	114.05	Inf	-Inf	82.22	3	Vertical	35	2.50	-	28.32	3.51	-

802.11b_Nss1,(1Mbps)_3TX

04/06/2021

2412MHz_TX



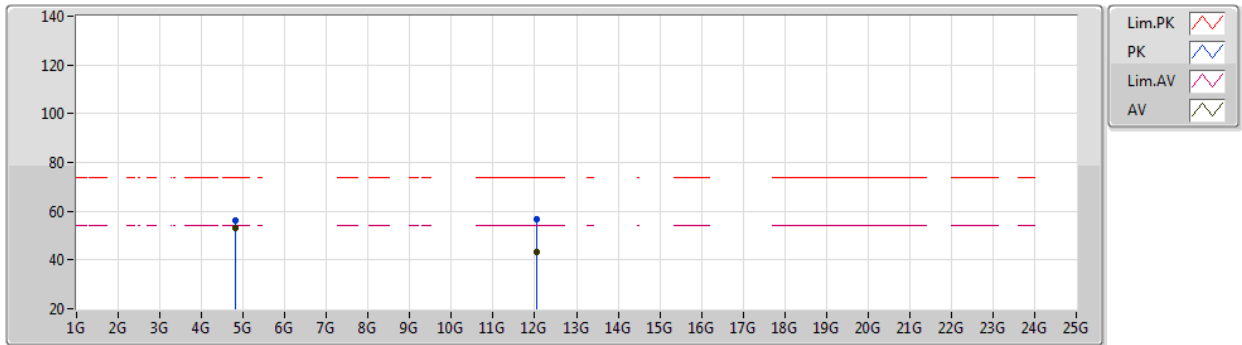
EUT Y_3TX
Setting 87
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3852G	60.63	74.00	-13.37	28.81	3	Horizontal	67	1.85	-	28.33	3.49	-
AV	2.3876G	48.55	54.00	-5.45	16.74	3	Horizontal	67	1.85	-	28.32	3.49	-
PK	2.413G	115.02	Inf	-Inf	83.18	3	Horizontal	67	1.85	-	28.33	3.51	-
AV	2.4112G	110.92	Inf	-Inf	79.09	3	Horizontal	67	1.85	-	28.32	3.51	-

802.11b_Nss1,(1Mbps)_3TX

04/06/2021

2412MHz_TX



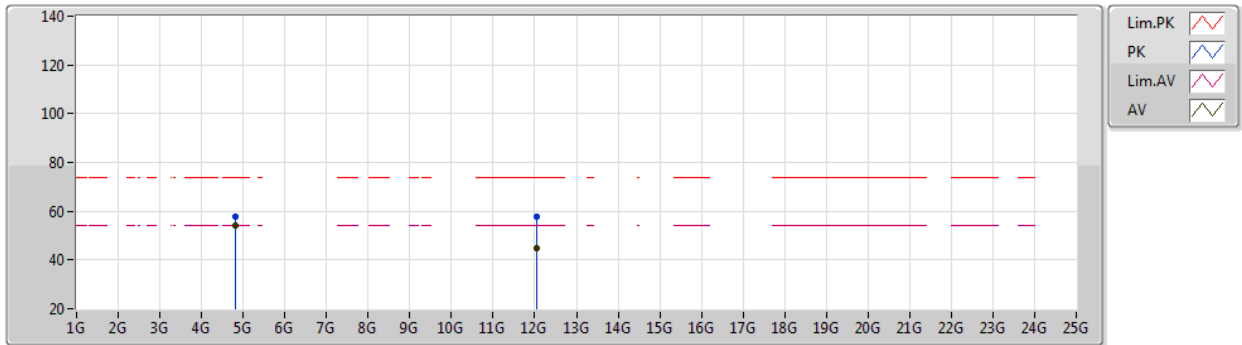
EUT Y_3TX
Setting 87
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82396G	56.25	74.00	-17.75	51.91	3	Vertical	120	1.83	-	33.40	6.24	35.30
AV	4.82393G	52.99	54.00	-1.01	48.65	3	Vertical	120	1.83	-	33.40	6.24	35.30
PK	12.05864G	56.71	74.00	-17.29	42.09	3	Vertical	26	1.58	-	39.32	10.03	34.73
AV	12.06108G	43.27	54.00	-10.73	28.64	3	Vertical	26	1.58	-	39.32	10.03	34.72

802.11b_Nss1,(1Mbps)_3TX

04/06/2021

2412MHz_TX



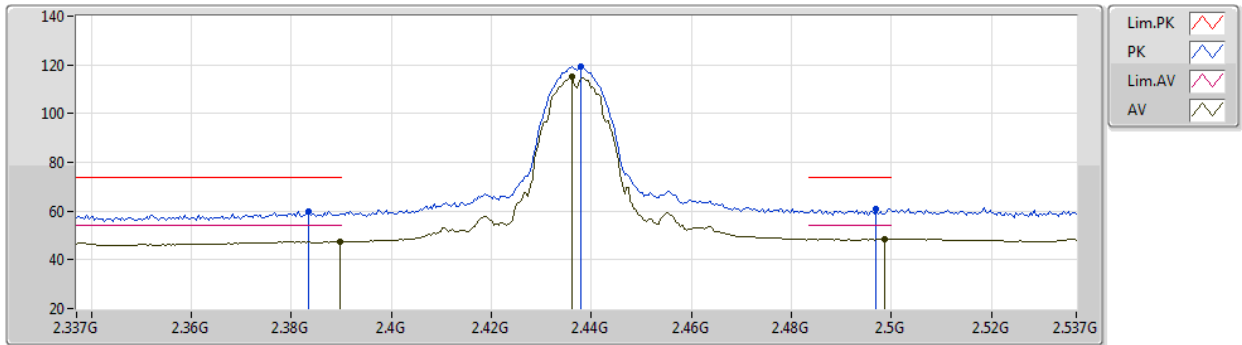
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Setting 87
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.824G	57.58	74.00	-16.42	53.24	3	Horizontal	182	2.34	-	33.40	6.24	35.30
AV	4.82396G	53.95	54.00	-0.05	49.61	3	Horizontal	182	2.34	-	33.40	6.24	35.30
PK	12.05796G	57.84	74.00	-16.16	43.21	3	Horizontal	297	1.94	-	39.33	10.03	34.73
AV	12.05884G	45.04	54.00	-8.96	30.42	3	Horizontal	297	1.94	-	39.32	10.03	34.73

802.11b_Nss1,(1Mbps)_3TX

05/06/2021

2437MHz_TX



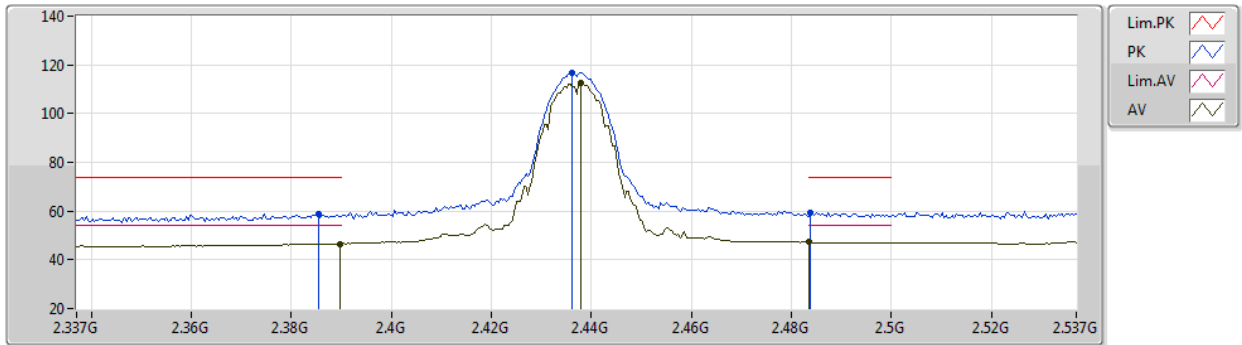
EUT Y_3TX
Setting 94
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3834G	59.95	74.00	-14.05	28.14	3	Vertical	31	2.03	-	28.33	3.48	-
AV	2.3898G	47.35	54.00	-6.65	15.54	3	Vertical	31	2.03	-	28.32	3.49	-
PK	2.4378G	119.19	Inf	-Inf	87.27	3	Vertical	31	2.03	-	28.38	3.54	-
AV	2.4362G	115.18	Inf	-Inf	83.27	3	Vertical	31	2.03	-	28.37	3.54	-
PK	2.497G	60.77	74.00	-13.23	28.49	3	Vertical	31	2.03	-	28.68	3.60	-
AV	2.4986G	48.41	54.00	-5.59	16.12	3	Vertical	31	2.03	-	28.69	3.60	-

802.11b_Nss1,(1Mbps)_3TX

05/06/2021

2437MHz_TX



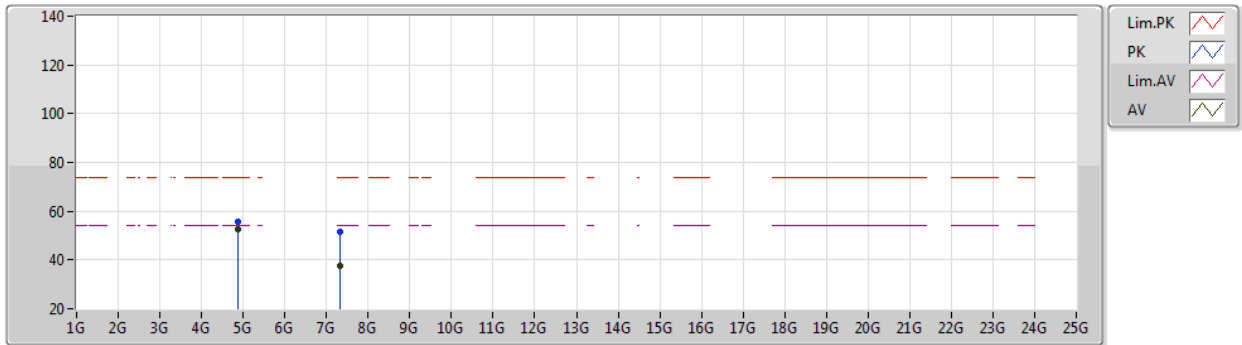
EUT Y_3TX
Setting 94
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3854G	58.94	74.00	-15.06	27.12	3	Horizontal	349	1.93	-	28.33	3.49	-
AV	2.3898G	46.54	54.00	-7.46	14.73	3	Horizontal	349	1.93	-	28.32	3.49	-
PK	2.4362G	116.77	Inf	-Inf	84.86	3	Horizontal	349	1.93	-	28.37	3.54	-
AV	2.4378G	112.59	Inf	-Inf	80.67	3	Horizontal	349	1.93	-	28.38	3.54	-
PK	2.4838G	59.55	74.00	-14.45	27.37	3	Horizontal	349	1.93	-	28.60	3.58	-
AV	2.4835G	47.20	54.00	-6.80	15.02	3	Horizontal	349	1.93	-	28.60	3.58	-

802.11b_Nss1,(1Mbps)_3TX

05/06/2021

2437MHz_TX



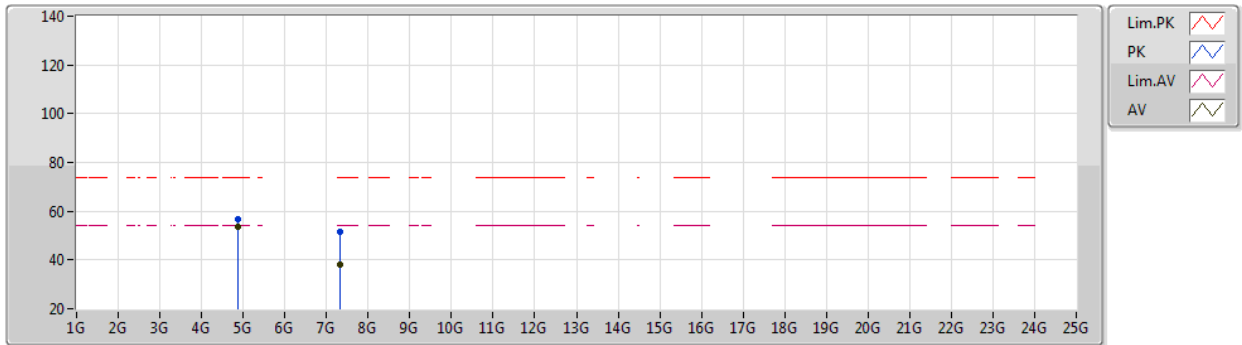
EUT Y_3TX
Setting 94
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87386G	55.87	74.00	-18.13	51.42	3	Vertical	75	1.78	-	33.50	6.31	35.36
AV	4.87396G	52.82	54.00	-1.18	48.37	3	Vertical	75	1.78	-	33.50	6.31	35.36
PK	7.31176G	51.43	74.00	-22.57	41.95	3	Vertical	109	1.28	-	37.00	7.87	35.39
AV	7.3103G	37.52	54.00	-16.48	28.04	3	Vertical	109	1.28	-	37.00	7.87	35.39

802.11b_Nss1,(1Mbps)_3TX

05/06/2021

2437MHz_TX



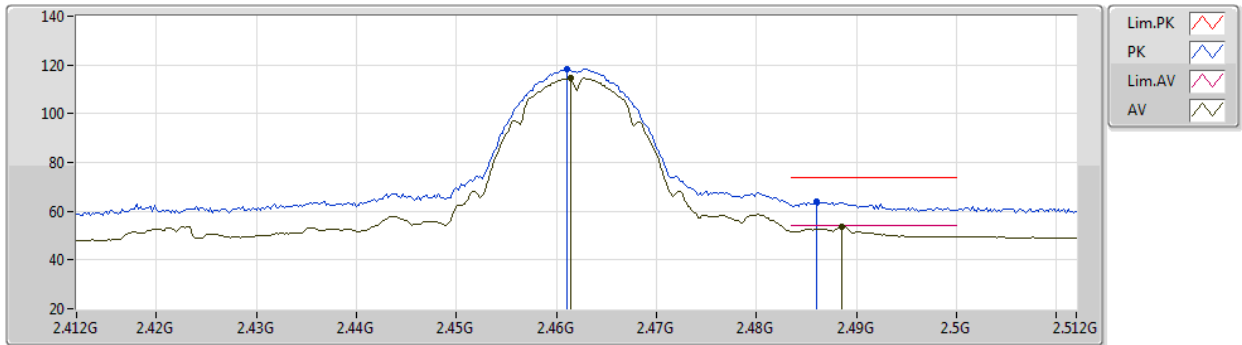
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Setting 94
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87392G	56.62	74.00	-17.38	52.17	3	Horizontal	154	1.78	-	33.50	6.31	35.36
AV	4.87396G	53.70	54.00	-0.30	49.25	3	Horizontal	154	1.78	-	33.50	6.31	35.36
PK	7.3107G	51.39	74.00	-22.61	41.91	3	Horizontal	321	2.20	-	37.00	7.87	35.39
AV	7.3115G	38.11	54.00	-15.89	28.63	3	Horizontal	321	2.20	-	37.00	7.87	35.39

802.11b_Nss1,(1Mbps)_3TX

05/06/2021

2462MHz_TX



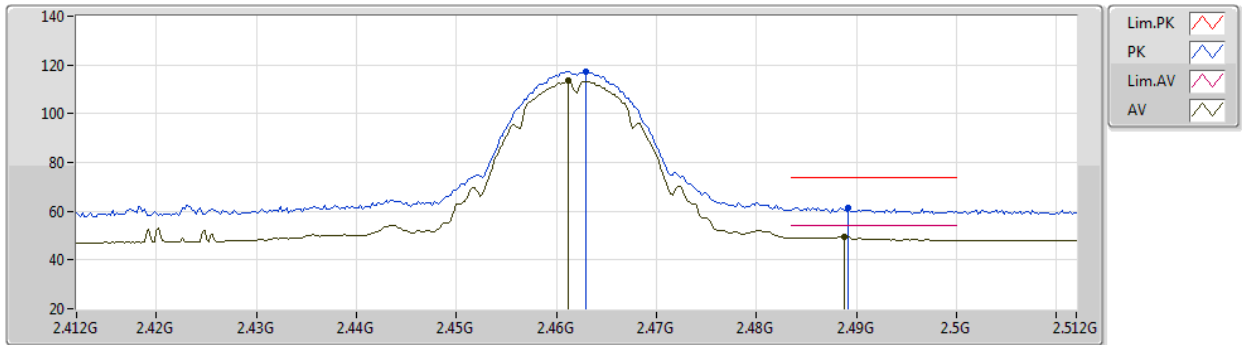
EUT Y_3TX
Setting 96
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.461G	118.42	Inf	-Inf	86.39	3	Vertical	32	2.18	-	28.47	3.56	-
AV	2.4614G	114.78	Inf	-Inf	82.75	3	Vertical	32	2.18	-	28.47	3.56	-
PK	2.486G	63.76	74.00	-10.24	31.55	3	Vertical	32	2.18	-	28.62	3.59	-
AV	2.4886G	53.78	54.00	-0.22	21.56	3	Vertical	32	2.18	-	28.63	3.59	-

802.11b_Nss1,(1Mbps)_3TX

05/06/2021

2462MHz_TX



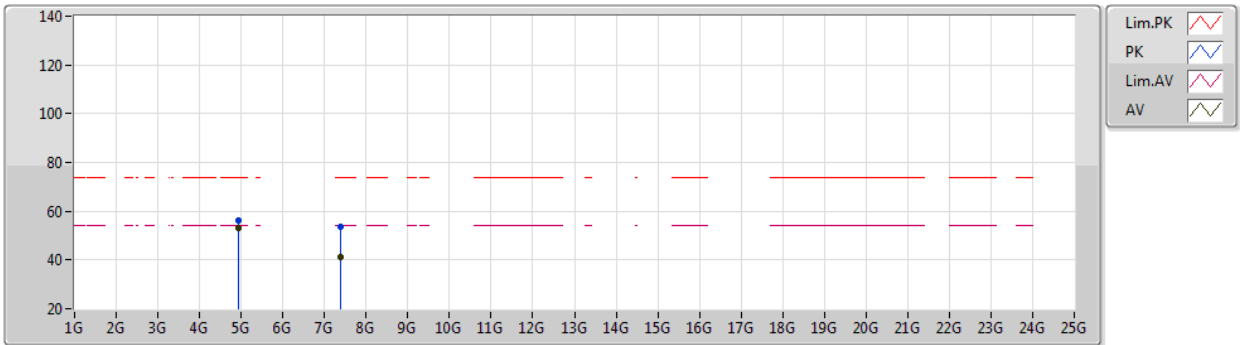
EUT Y_3TX
Setting 96
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	117.46	Inf	-Inf	85.42	3	Horizontal	328	2.06	-	28.48	3.56	-
AV	2.4612G	113.61	Inf	-Inf	81.58	3	Horizontal	328	2.06	-	28.47	3.56	-
PK	2.4892G	61.52	74.00	-12.48	29.29	3	Horizontal	328	2.06	-	28.64	3.59	-
AV	2.4888G	49.58	54.00	-4.42	17.36	3	Horizontal	328	2.06	-	28.63	3.59	-

802.11b_Nss1,(1Mbps)_3TX

05/06/2021

2462MHz_TX



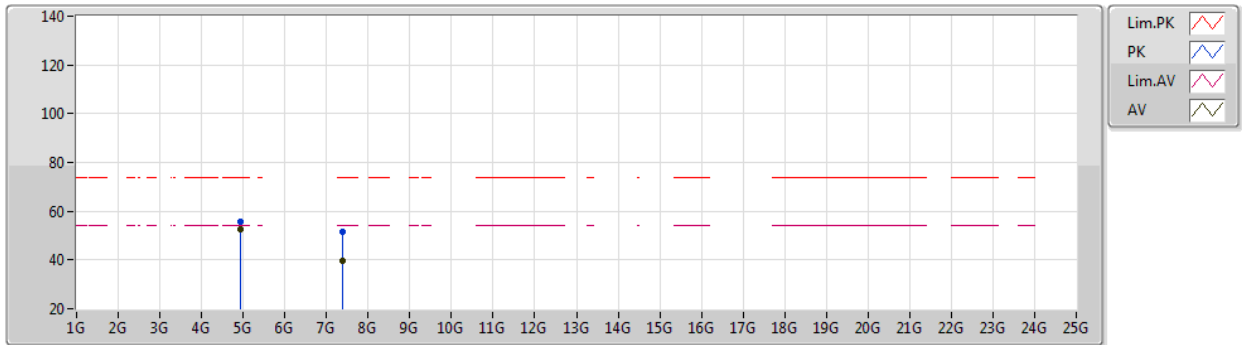
EUT Y_3TX
Setting 96
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92392G	56.12	74.00	-17.88	51.49	3	Vertical	65	1.69	-	33.65	6.39	35.41
AV	4.92396G	53.19	54.00	-0.81	48.56	3	Vertical	65	1.69	-	33.65	6.39	35.41
PK	7.38332G	53.76	74.00	-20.24	44.13	3	Vertical	3	2.61	-	37.07	7.97	35.41
AV	7.38524G	41.05	54.00	-12.95	31.41	3	Vertical	3	2.61	-	37.07	7.98	35.41

802.11b_Nss1,(1Mbps)_3TX

05/06/2021

2462MHz_TX



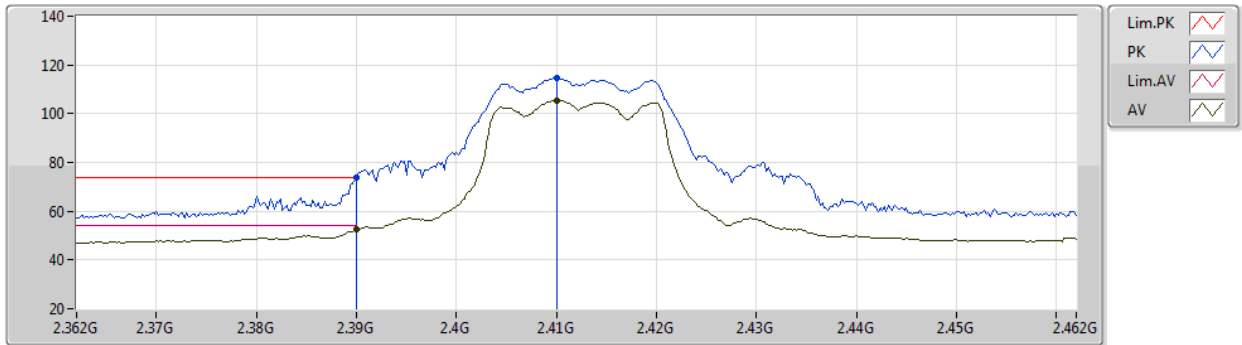
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Setting 96
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.924G	55.78	74.00	-18.22	51.15	3	Horizontal	154	1.74	-	33.65	6.39	35.41
AV	4.92396G	52.73	54.00	-1.27	48.10	3	Horizontal	154	1.74	-	33.65	6.39	35.41
PK	7.38792G	51.73	74.00	-22.27	42.08	3	Horizontal	172	1.59	-	37.08	7.98	35.41
AV	7.38468G	39.50	54.00	-14.50	29.86	3	Horizontal	172	1.59	-	37.07	7.98	35.41

802.11g_Nss1,(6Mbps)_3TX

04/06/2021

2412MHz_TX



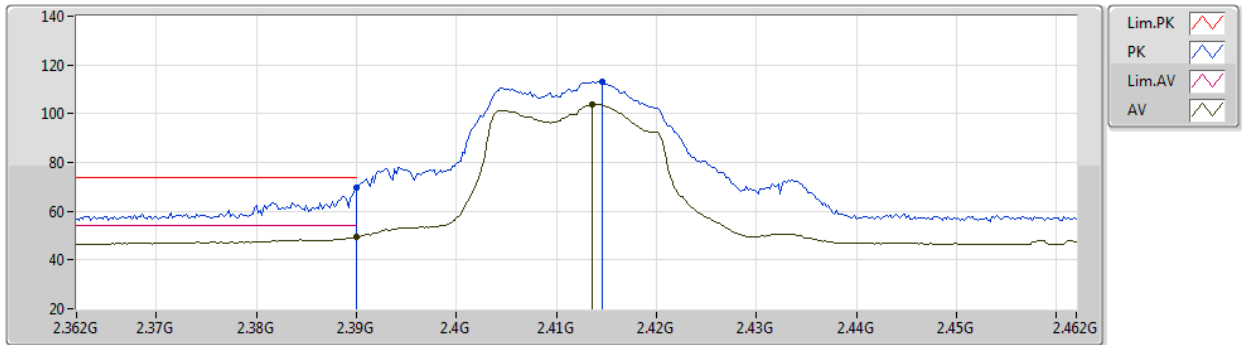
EUT Y_3TX
Setting 79
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	73.78	74.00	-0.22	41.97	3	Vertical	89	1.53	-	28.32	3.49	-
AV	2.39G	52.56	54.00	-1.44	20.75	3	Vertical	89	1.53	-	28.32	3.49	-
PK	2.41G	114.75	Inf	-Inf	82.92	3	Vertical	89	1.53	-	28.32	3.51	-
AV	2.41G	105.51	Inf	-Inf	73.68	3	Vertical	89	1.53	-	28.32	3.51	-

802.11g_Nss1,(6Mbps)_3TX

04/06/2021

2412MHz_TX



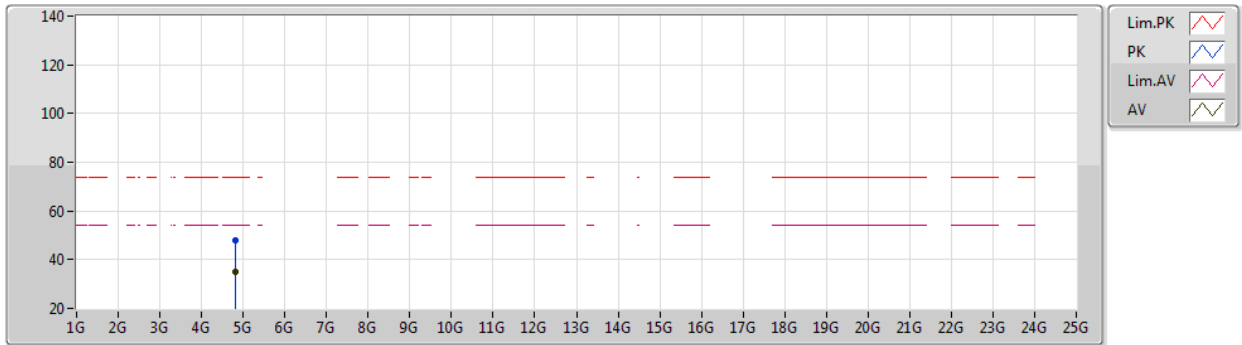
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Setting 79
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	69.90	74.00	-4.10	38.09	3	Horizontal	56	2.29	-	28.32	3.49	-
AV	2.39G	49.48	54.00	-4.52	17.67	3	Horizontal	56	2.29	-	28.32	3.49	-
PK	2.4146G	112.96	Inf	-Inf	81.12	3	Horizontal	56	2.29	-	28.33	3.51	-
AV	2.4136G	103.72	Inf	-Inf	71.88	3	Horizontal	56	2.29	-	28.33	3.51	-

802.11g_Nss1,(6Mbps)_3TX

05/06/2021

2412MHz_TX



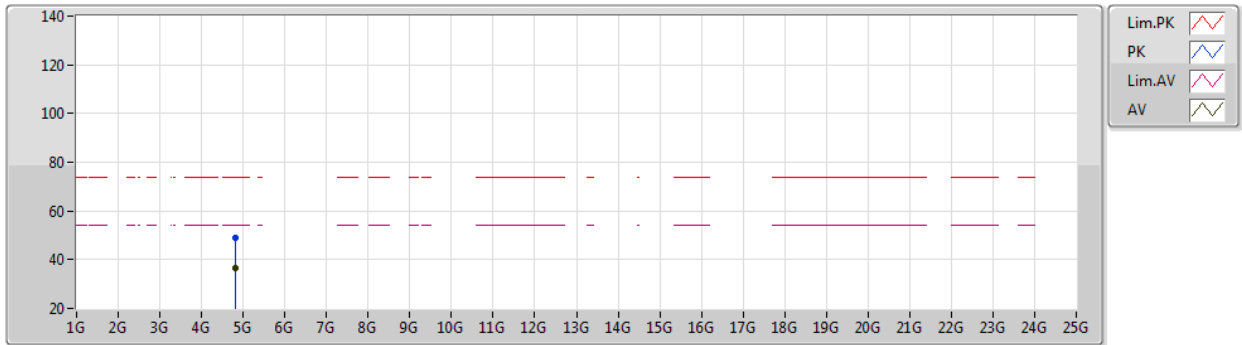
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Setting 79
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82454G	47.95	74.00	-26.05	43.61	3	Vertical	39	1.94	-	33.40	6.24	35.30
AV	4.82454G	35.08	54.00	-18.92	30.74	3	Vertical	39	1.94	-	33.40	6.24	35.30

802.11g_Nss1,(6Mbps)_3TX

05/06/2021

2412MHz_TX



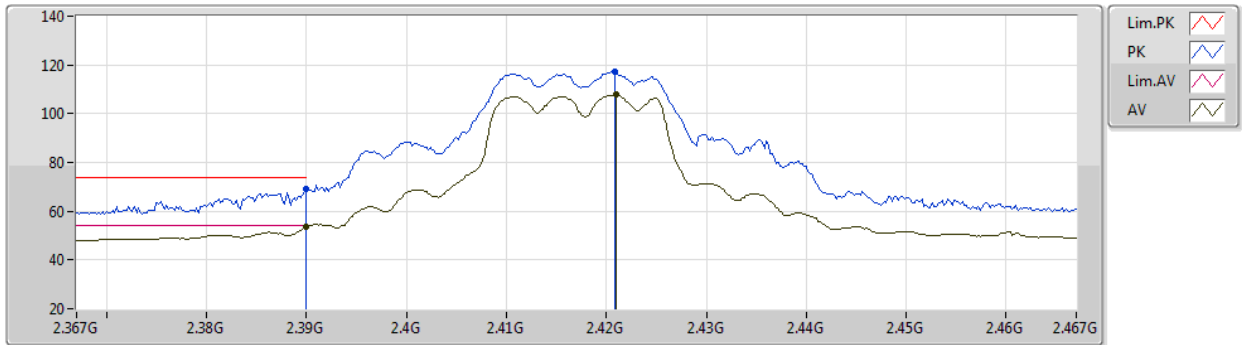
EUT V_3TX
Setting 79
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82502G	49.17	74.00	-24.83	44.83	3	Horizontal	101	1.95	-	33.40	6.24	35.30
AV	4.82478G	36.48	54.00	-17.52	32.14	3	Horizontal	101	1.95	-	33.40	6.24	35.30

802.11g_Nss1,(6Mbps)_3TX

04/06/2021

2417MHz_TX



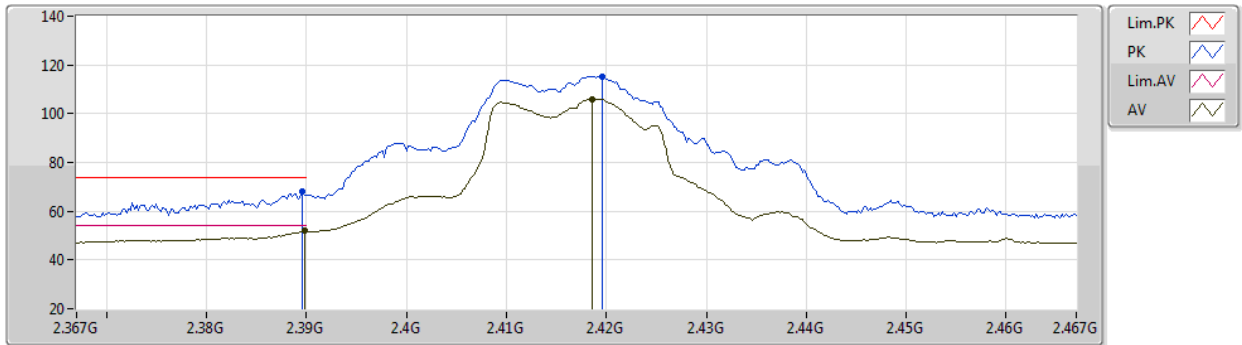
EUT Y_3TX
Setting 88
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	69.05	74.00	-4.95	37.24	3	Vertical	39	2.05	-	28.32	3.49	-
AV	2.39G	53.76	54.00	-0.24	21.95	3	Vertical	39	2.05	-	28.32	3.49	-
PK	2.4208G	117.18	Inf	-Inf	85.32	3	Vertical	39	2.05	-	28.34	3.52	-
AV	2.421G	107.84	Inf	-Inf	75.98	3	Vertical	39	2.05	-	28.34	3.52	-

802.11g_Nss1,(6Mbps)_3TX

04/06/2021

2417MHz_TX



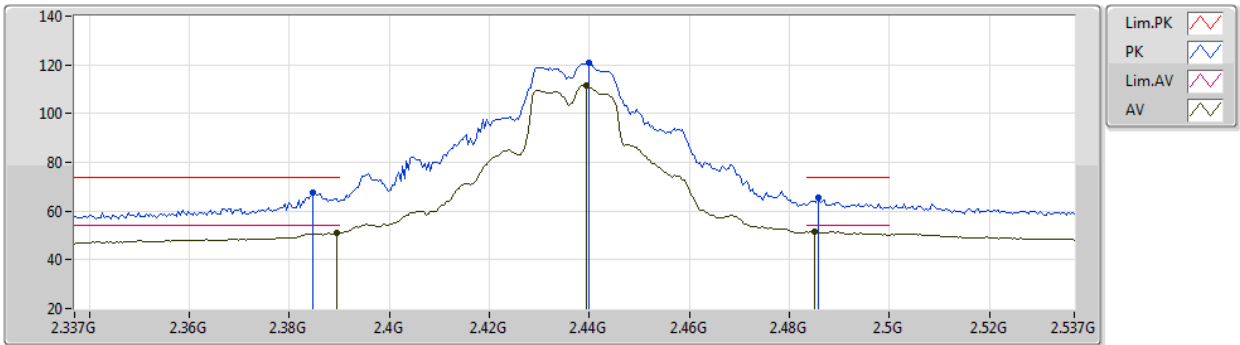
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Setting 88
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	67.85	74.00	-6.15	36.04	3	Horizontal	55	2.29	-	28.32	3.49	-
AV	2.3898G	51.85	54.00	-2.15	20.04	3	Horizontal	55	2.29	-	28.32	3.49	-
PK	2.4196G	115.35	Inf	-Inf	83.49	3	Horizontal	55	2.29	-	28.34	3.52	-
AV	2.4186G	105.91	Inf	-Inf	74.05	3	Horizontal	55	2.29	-	28.34	3.52	-

802.11g_Nss1,(6Mbps)_3TX

04/06/2021

2437MHz_TX



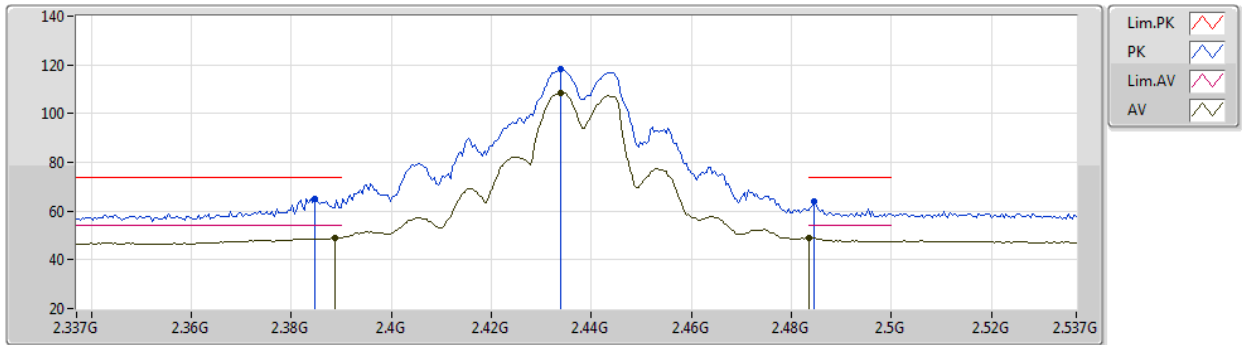
EUT Y_3TX
Setting 98
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3846G	67.49	74.00	-6.51	35.68	3	Vertical	89	2.21	-	28.33	3.48	-
AV	2.3894G	51.17	54.00	-2.83	19.36	3	Vertical	89	2.21	-	28.32	3.49	-
PK	2.4398G	121.00	Inf	-Inf	89.08	3	Vertical	89	2.21	-	28.38	3.54	-
AV	2.4394G	111.68	Inf	-Inf	79.76	3	Vertical	89	2.21	-	28.38	3.54	-
PK	2.4858G	65.32	74.00	-8.68	33.12	3	Vertical	89	2.21	-	28.61	3.59	-
AV	2.485G	51.58	54.00	-2.42	19.38	3	Vertical	89	2.21	-	28.61	3.59	-

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

04/06/2021



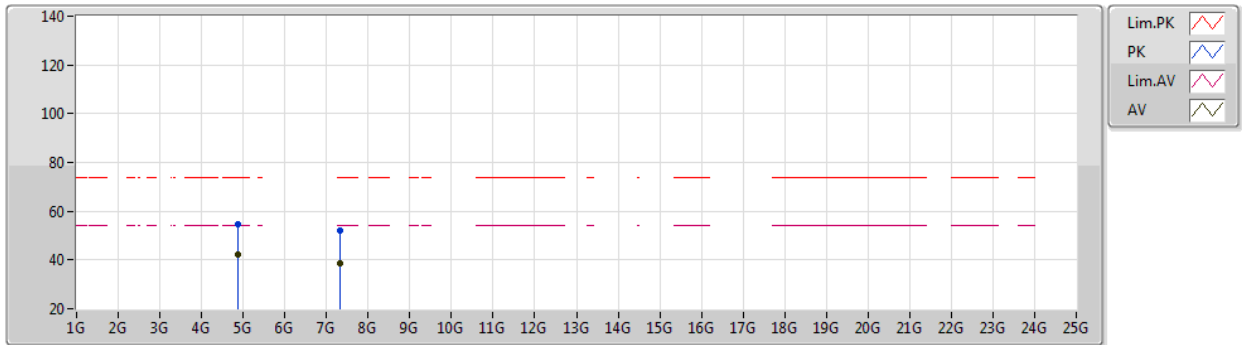
EUT Y_3TX
Setting 98
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3846G	65.19	74.00	-8.81	33.38	3	Horizontal	57	2.58	-	28.33	3.48	-
AV	2.3886G	49.02	54.00	-4.98	17.21	3	Horizontal	57	2.58	-	28.32	3.49	-
PK	2.4338G	118.46	Inf	-Inf	86.56	3	Horizontal	57	2.58	-	28.37	3.53	-
AV	2.4338G	108.58	Inf	-Inf	76.68	3	Horizontal	57	2.58	-	28.37	3.53	-
PK	2.4846G	63.72	74.00	-10.28	31.53	3	Horizontal	57	2.58	-	28.61	3.58	-
AV	2.4835G	48.90	54.00	-5.10	16.72	3	Horizontal	57	2.58	-	28.60	3.58	-

802.11g_Nss1,(6Mbps)_3TX

05/06/2021

2437MHz_TX



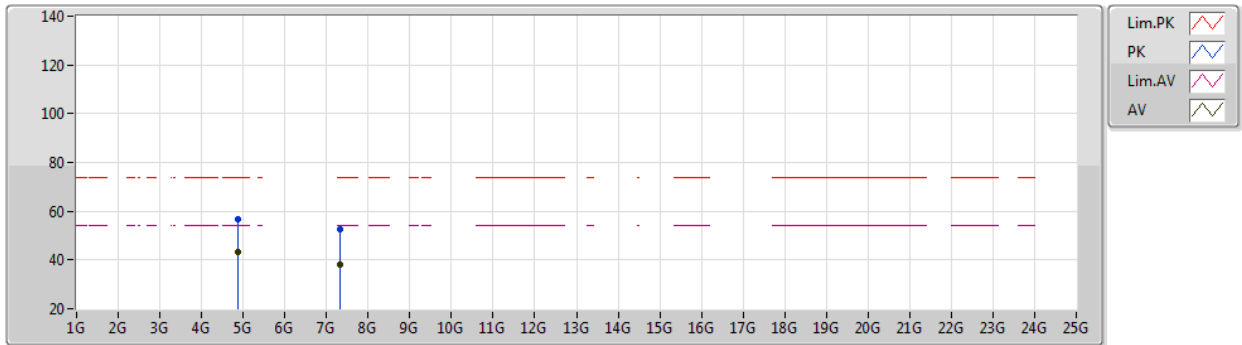
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Setting 98
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.875G	54.87	74.00	-19.13	50.42	3	Vertical	85	2.04	-	33.50	6.31	35.36
AV	4.87552G	42.06	54.00	-11.94	37.61	3	Vertical	85	2.04	-	33.50	6.31	35.36
PK	7.3176G	52.14	74.00	-21.86	42.66	3	Vertical	0	1.41	-	37.00	7.88	35.40
AV	7.31668G	38.37	54.00	-15.63	28.89	3	Vertical	0	1.41	-	37.00	7.88	35.40

802.11g_Nss1,(6Mbps)_3TX

05/06/2021

2437MHz_TX



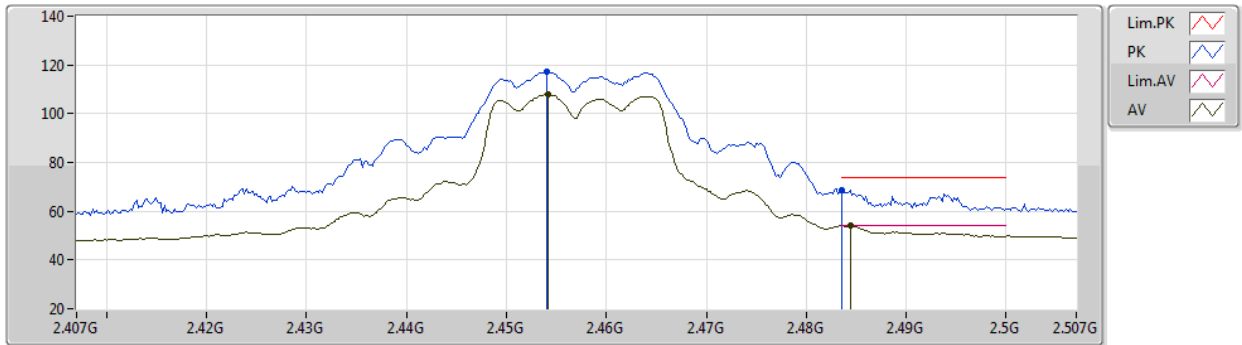
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Setting 98
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87502G	56.91	74.00	-17.09	52.46	3	Horizontal	154	1.79	-	33.50	6.31	35.36
AV	4.87556G	43.25	54.00	-10.75	38.80	3	Horizontal	154	1.79	-	33.50	6.31	35.36
PK	7.31252G	52.37	74.00	-21.63	42.90	3	Horizontal	69	1.49	-	37.00	7.87	35.40
AV	7.31312G	38.35	54.00	-15.65	28.88	3	Horizontal	69	1.49	-	37.00	7.87	35.40

802.11g_Nss1,(6Mbps)_3TX

04/06/2021

2457MHz_TX



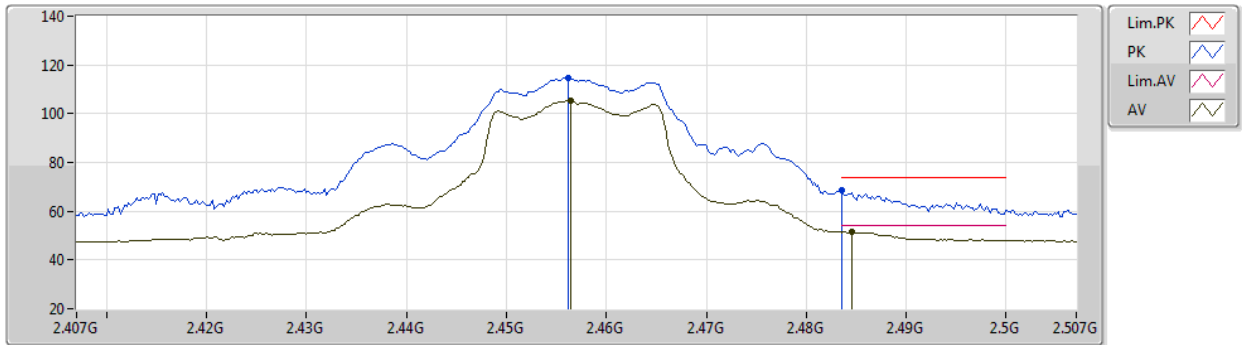
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Setting 88
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.454G	117.31	Inf	-Inf	85.34	3	Vertical	50	2.47	-	28.42	3.55	-
AV	2.4542G	107.97	Inf	-Inf	75.99	3	Vertical	50	2.47	-	28.43	3.55	-
PK	2.4835G	68.84	74.00	-5.16	36.66	3	Vertical	50	2.47	-	28.60	3.58	-
AV	2.4844G	53.98	54.00	-0.02	21.79	3	Vertical	50	2.47	-	28.61	3.58	-

802.11g_Nss1,(6Mbps)_3TX

04/06/2021

2457MHz_TX



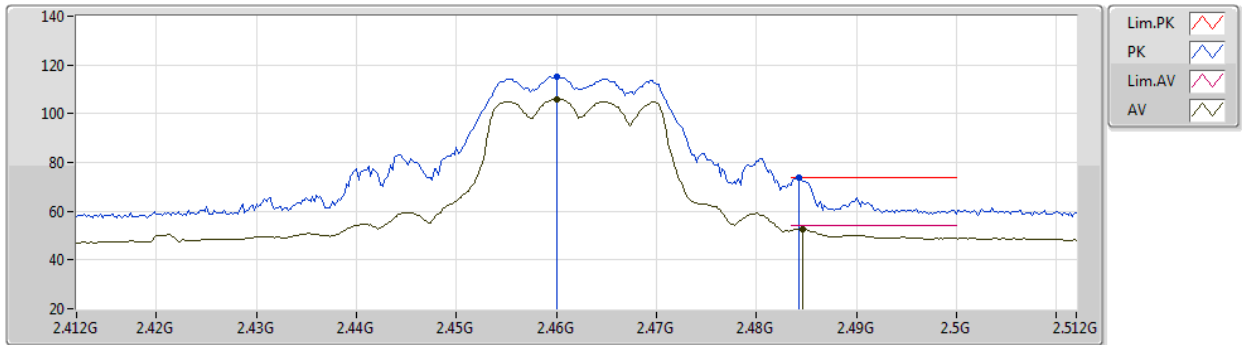
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Setting 88
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4562G	114.76	Inf	-Inf	82.76	3	Horizontal	8	2.06	-	28.44	3.56	-
AV	2.4564G	105.24	Inf	-Inf	73.24	3	Horizontal	8	2.06	-	28.44	3.56	-
PK	2.4836G	68.74	74.00	-5.26	36.56	3	Horizontal	8	2.06	-	28.60	3.58	-
AV	2.4846G	51.64	54.00	-2.36	19.45	3	Horizontal	8	2.06	-	28.61	3.58	-

802.11g_Nss1,(6Mbps)_3TX

04/06/2021

2462MHz_TX



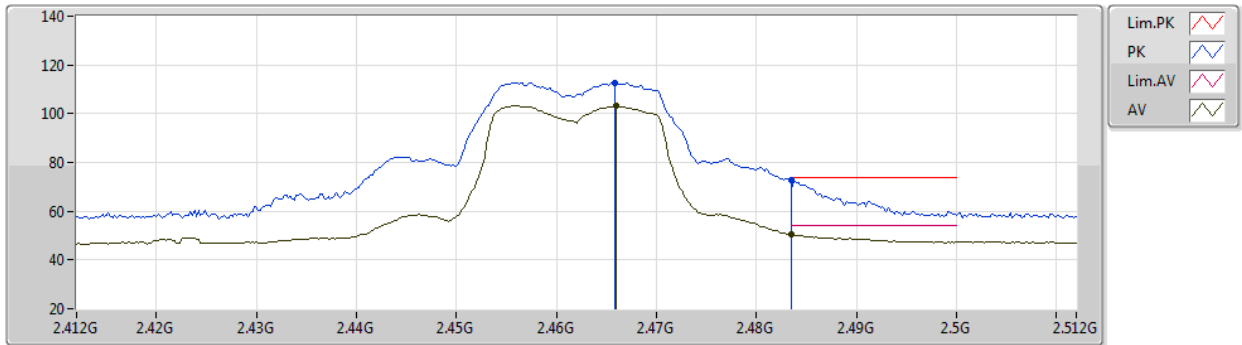
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Setting 81
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.46G	115.20	Inf	-Inf	83.18	3	Vertical	32	2.05	-	28.46	3.56	-
AV	2.46G	106.11	Inf	-Inf	74.09	3	Vertical	32	2.05	-	28.46	3.56	-
PK	2.4842G	73.77	74.00	-0.23	41.58	3	Vertical	32	2.05	-	28.61	3.58	-
AV	2.4846G	52.81	54.00	-1.19	20.62	3	Vertical	32	2.05	-	28.61	3.58	-

802.11g_Nss1,(6Mbps)_3TX

04/06/2021

2462MHz_TX



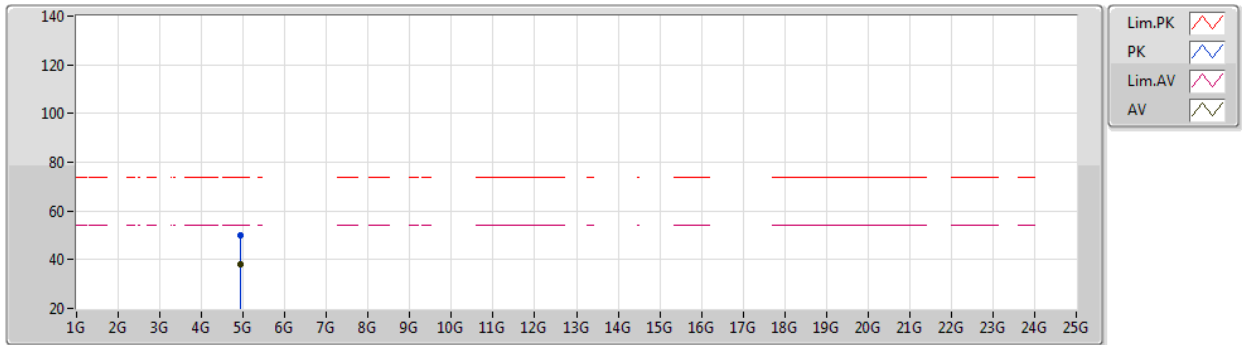
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Setting 81
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4658G	112.68	Inf	-Inf	80.62	3	Horizontal	5	2.06	-	28.49	3.57	-
AV	2.466G	103.37	Inf	-Inf	71.30	3	Horizontal	5	2.06	-	28.50	3.57	-
PK	2.4835G	72.84	74.00	-1.16	40.66	3	Horizontal	5	2.06	-	28.60	3.58	-
AV	2.4835G	50.42	54.00	-3.58	18.24	3	Horizontal	5	2.06	-	28.60	3.58	-

802.11g_Nss1,(6Mbps)_3TX

05/06/2021

2462MHz_TX



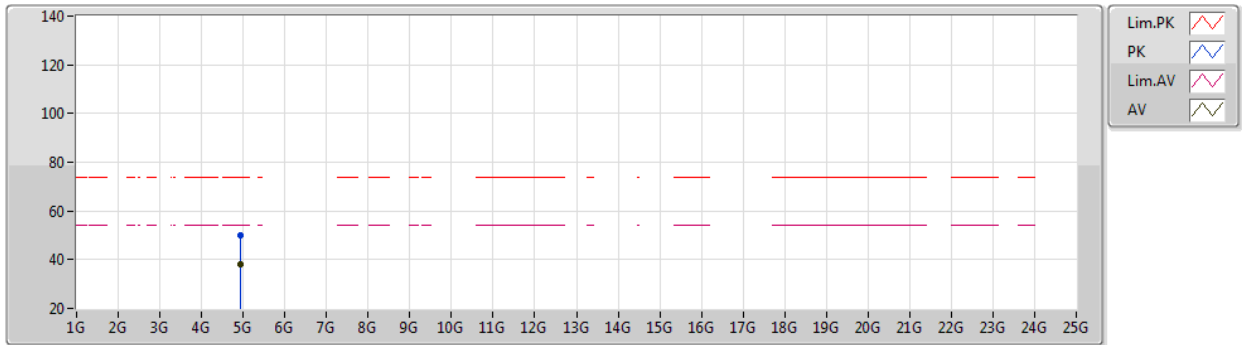
EUT V_3TX
Setting 81
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9249G	50.19	74.00	-23.81	45.56	3	Vertical	89	2.21	-	33.65	6.39	35.41
AV	4.9261G	37.93	54.00	-16.07	33.30	3	Vertical	89	2.21	-	33.65	6.39	35.41

802.11g_Nss1,(6Mbps)_3TX

05/06/2021

2462MHz_TX



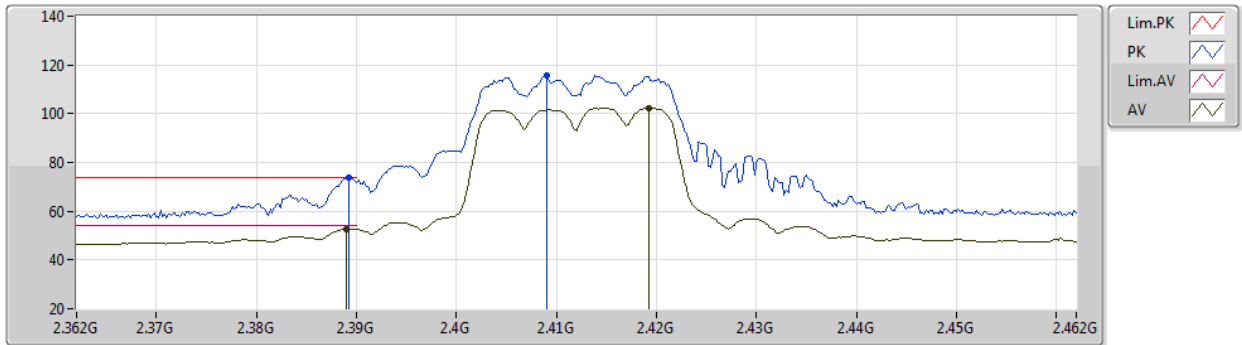
EUT V_3TX
Setting 81
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91992G	49.95	74.00	-24.05	45.34	3	Horizontal	223	1.18	-	33.64	6.38	35.41
AV	4.92532G	38.14	54.00	-15.86	33.51	3	Horizontal	223	1.18	-	33.65	6.39	35.41

802.11ax HEW20_Nss1,(MCS0)_3TX

04/06/2021

2412MHz_TX



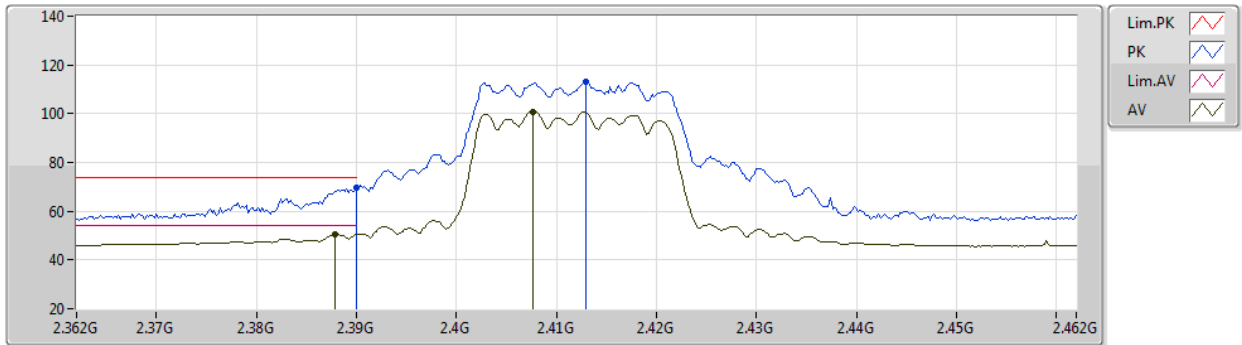
EUT Y_3TX
Setting 78
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	73.81	74.00	-0.19	42.00	3	Vertical	30	1.71	-	28.32	3.49	-
AV	2.389G	52.71	54.00	-1.29	20.90	3	Vertical	30	1.71	-	28.32	3.49	-
PK	2.409G	115.71	Inf	-Inf	83.88	3	Vertical	30	1.71	-	28.32	3.51	-
AV	2.4192G	102.27	Inf	-Inf	70.41	3	Vertical	30	1.71	-	28.34	3.52	-

802.11ax HEW20_Nss1,(MCS0)_3TX

04/06/2021

2412MHz_TX



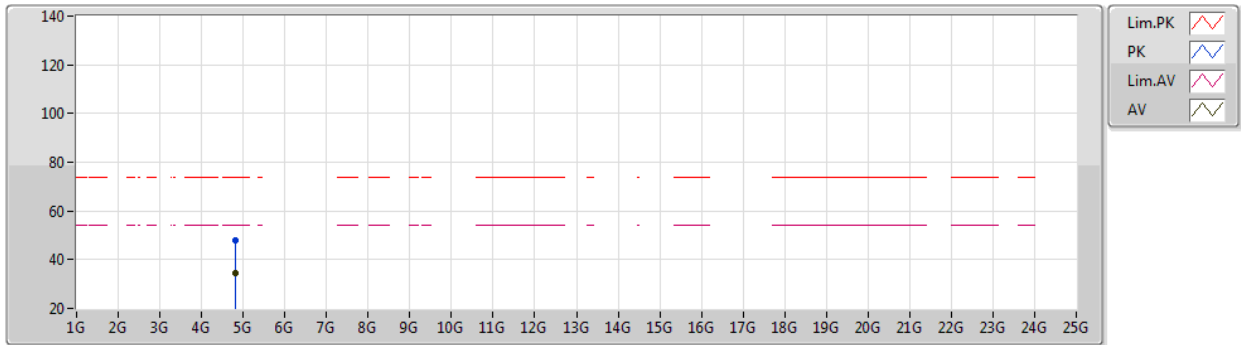
EUT Y_3TX
Setting 78
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	69.53	74.00	-4.47	37.72	3	Horizontal	67	2.02	-	28.32	3.49	-
AV	2.3878G	50.55	54.00	-3.45	18.74	3	Horizontal	67	2.02	-	28.32	3.49	-
PK	2.413G	113.10	Inf	-Inf	81.26	3	Horizontal	67	2.02	-	28.33	3.51	-
AV	2.4076G	100.84	Inf	-Inf	69.01	3	Horizontal	67	2.02	-	28.32	3.51	-

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2412MHz_TX



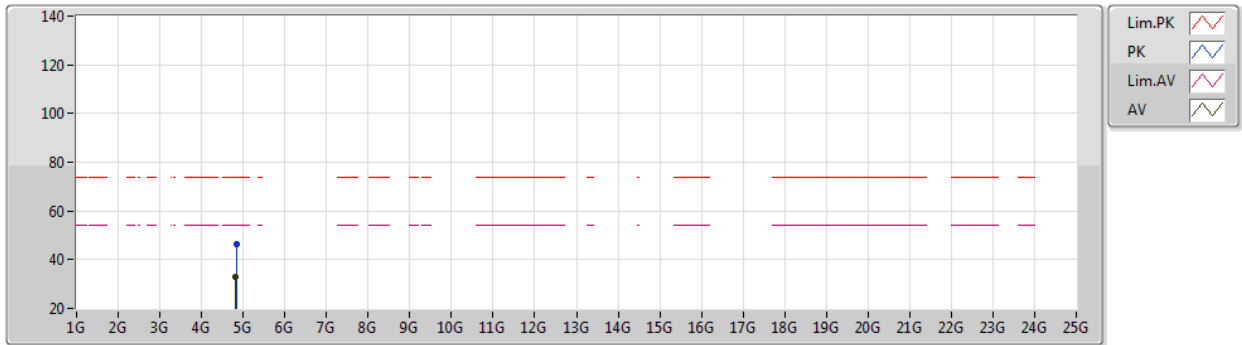
EUT V_3TX
Setting 78
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82514G	47.76	74.00	-26.24	43.42	3	Vertical	175	2.59	-	33.40	6.24	35.30
AV	4.82472G	34.63	54.00	-19.37	30.29	3	Vertical	175	2.59	-	33.40	6.24	35.30

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2412MHz_TX



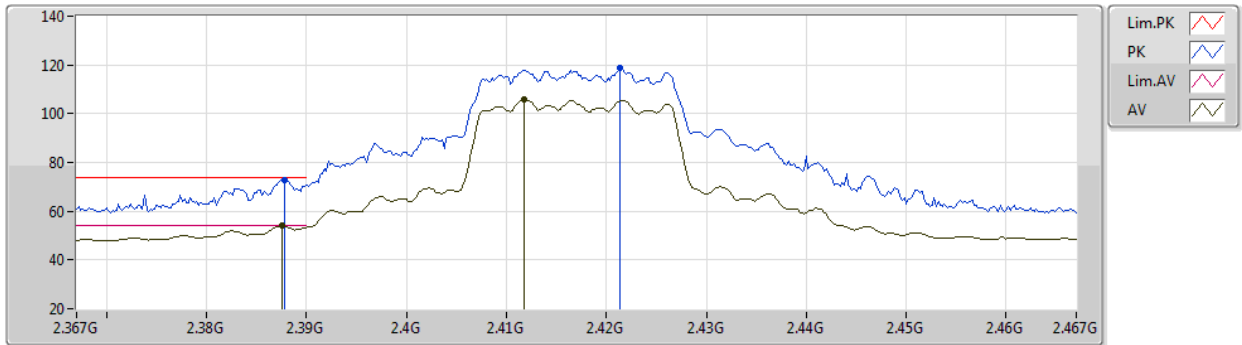
EUT V_3TX
Setting 78
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83462G	46.33	74.00	-27.67	41.99	3	Horizontal	265	2.55	-	33.40	6.25	35.31
AV	4.82466G	32.84	54.00	-21.16	28.50	3	Horizontal	265	2.55	-	33.40	6.24	35.30

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2417MHz_TX



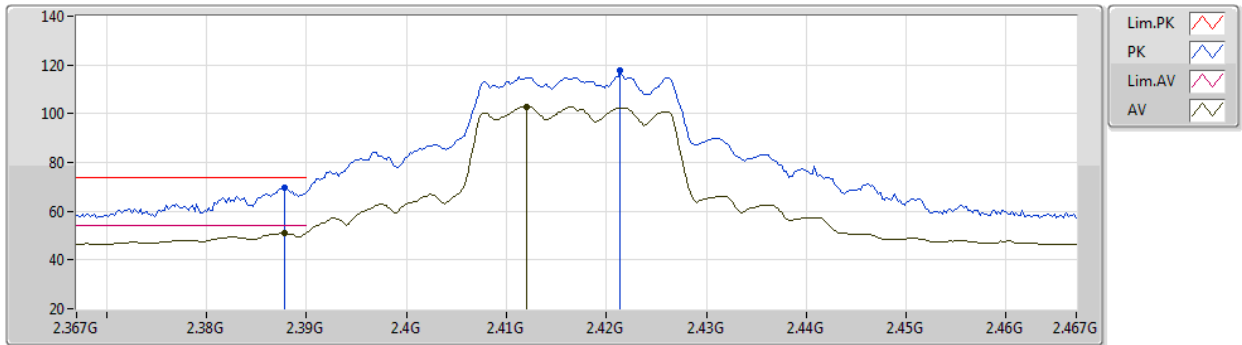
EUT Y_3TX
Setting 87
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	72.91	74.00	-1.09	41.10	3	Vertical	93	1.83	-	28.32	3.49	-
AV	2.3876G	53.97	54.00	-0.03	22.16	3	Vertical	93	1.83	-	28.32	3.49	-
PK	2.4214G	118.78	Inf	-Inf	86.92	3	Vertical	93	1.83	-	28.34	3.52	-
AV	2.4118G	105.74	Inf	-Inf	73.91	3	Vertical	93	1.83	-	28.32	3.51	-

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2417MHz_TX



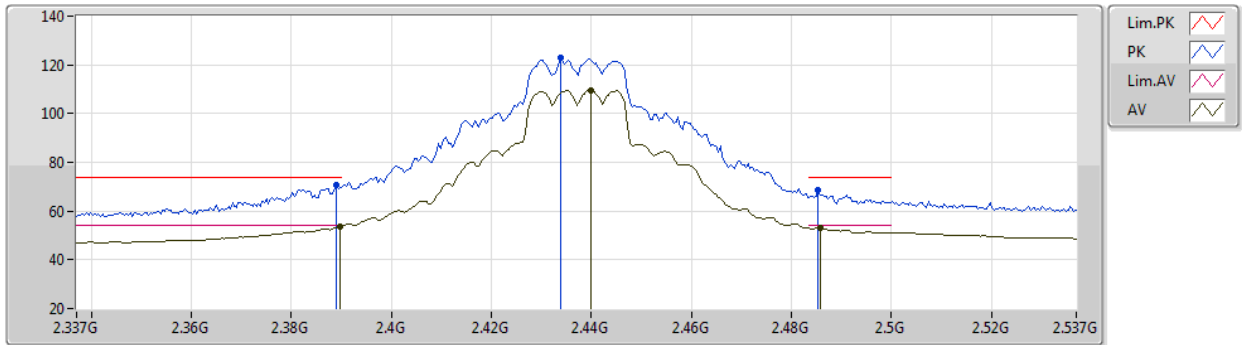
EUT Y_3TX
Setting 87
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	69.78	74.00	-4.22	37.97	3	Horizontal	333	1.87	-	28.32	3.49	-
AV	2.3878G	51.10	54.00	-2.90	19.29	3	Horizontal	333	1.87	-	28.32	3.49	-
PK	2.4214G	117.78	Inf	-Inf	85.92	3	Horizontal	333	1.87	-	28.34	3.52	-
AV	2.412G	102.98	Inf	-Inf	71.15	3	Horizontal	333	1.87	-	28.32	3.51	-

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2437MHz_TX



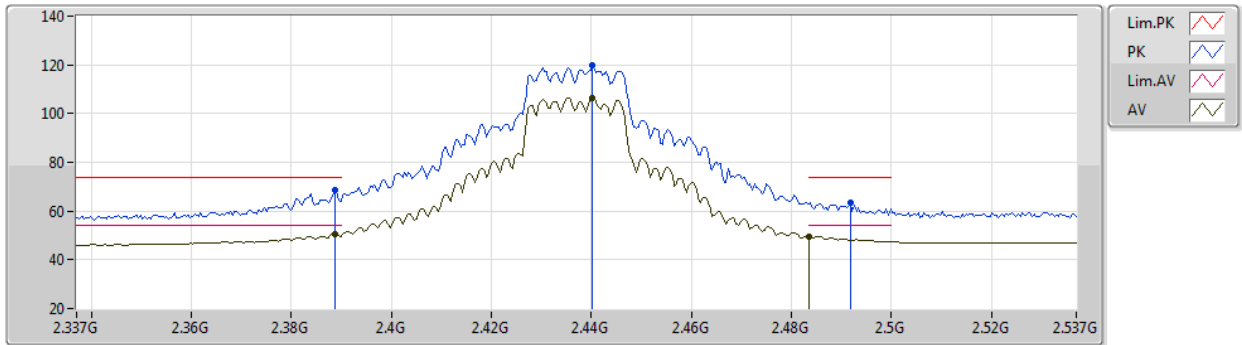
EUT Y_3TX
Setting 98
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	70.45	74.00	-3.55	38.64	3	Vertical	32	2.04	-	28.32	3.49	-
AV	2.3898G	53.82	54.00	-0.18	22.01	3	Vertical	32	2.04	-	28.32	3.49	-
PK	2.4338G	122.81	Inf	-Inf	90.91	3	Vertical	32	2.04	-	28.37	3.53	-
AV	2.4398G	109.60	Inf	-Inf	77.68	3	Vertical	32	2.04	-	28.38	3.54	-
PK	2.4854G	68.66	74.00	-5.34	36.46	3	Vertical	32	2.04	-	28.61	3.59	-
AV	2.4858G	53.04	54.00	-0.96	20.84	3	Vertical	32	2.04	-	28.61	3.59	-

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2437MHz_TX



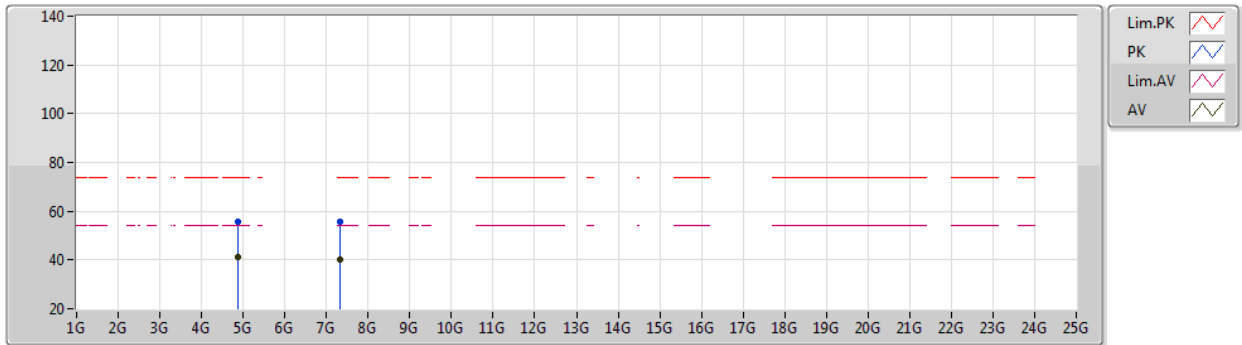
EUT Y_3TX
Setting 98
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	68.68	74.00	-5.32	36.87	3	Horizontal	53	1.64	-	28.32	3.49	-
AV	2.3886G	50.51	54.00	-3.49	18.70	3	Horizontal	53	1.64	-	28.32	3.49	-
PK	2.4402G	119.67	Inf	-Inf	87.75	3	Horizontal	53	1.64	-	28.38	3.54	-
AV	2.4402G	106.32	Inf	-Inf	74.40	3	Horizontal	53	1.64	-	28.38	3.54	-
PK	2.4918G	63.33	74.00	-10.67	31.09	3	Horizontal	53	1.64	-	28.65	3.59	-
AV	2.4835G	49.59	54.00	-4.41	17.41	3	Horizontal	53	1.64	-	28.60	3.58	-

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2437MHz_TX

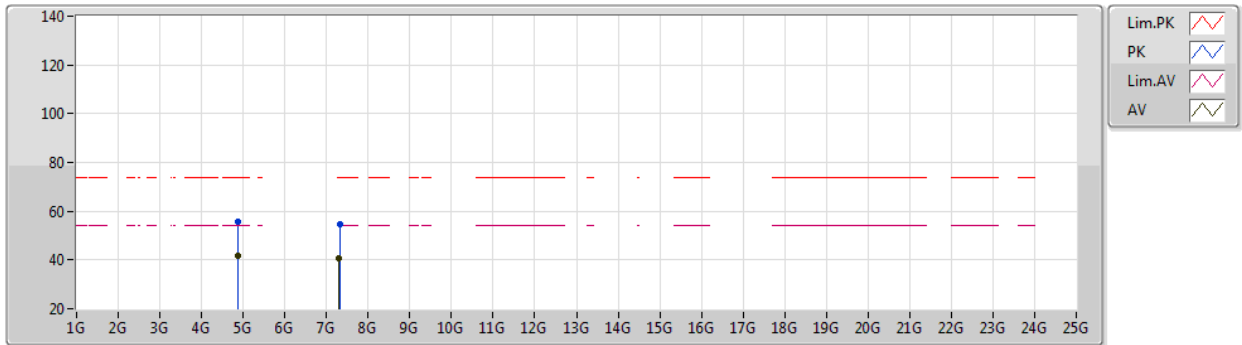

EUT Y_3TX
Setting 98
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88006G	55.45	74.00	-18.55	50.97	3	Vertical	75	1.80	-	33.52	6.32	35.36
AV	4.8701G	41.21	54.00	-12.79	36.77	3	Vertical	75	1.80	-	33.48	6.31	35.35
PK	7.31844G	55.52	74.00	-18.48	46.04	3	Vertical	0	1.60	-	37.00	7.88	35.40
AV	7.31406G	40.39	54.00	-13.61	30.92	3	Vertical	0	1.60	-	37.00	7.87	35.40

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2437MHz_TX



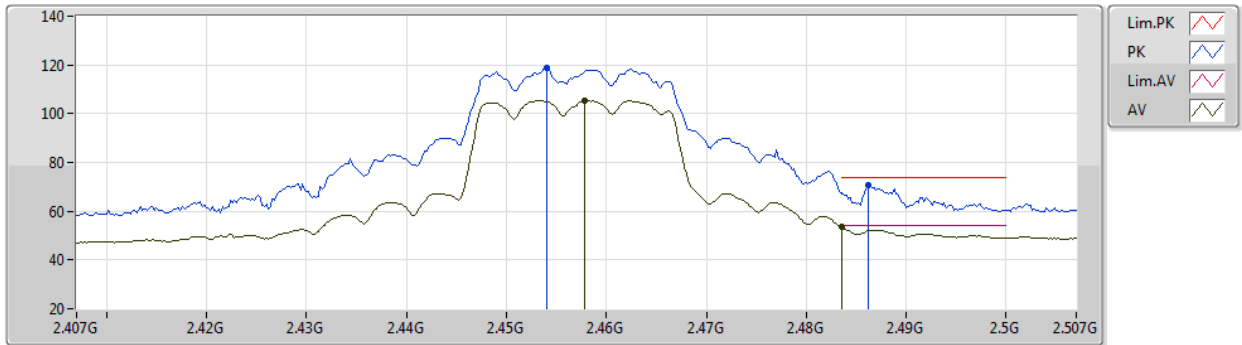
EUT Y_3TX
Setting 98
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87034G	55.69	74.00	-18.31	51.25	3	Horizontal	152	1.79	-	33.48	6.31	35.35
AV	4.87496G	41.79	54.00	-12.21	37.34	3	Horizontal	152	1.79	-	33.50	6.31	35.36
PK	7.3197G	54.70	74.00	-19.30	45.22	3	Horizontal	62	1.60	-	37.00	7.88	35.40
AV	7.31004G	40.48	54.00	-13.52	31.00	3	Horizontal	62	1.60	-	37.00	7.87	35.39

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2457MHz_TX



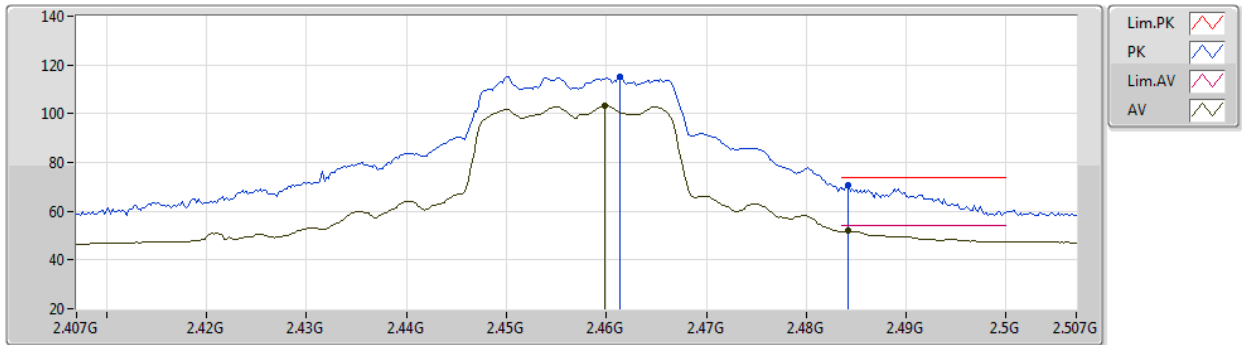
EUT Y_3TX
Setting 85
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.454G	118.92	Inf	-Inf	86.95	3	Vertical	39	2.40	-	28.42	3.55	-
AV	2.4578G	105.27	Inf	-Inf	73.26	3	Vertical	39	2.40	-	28.45	3.56	-
PK	2.4862G	70.58	74.00	-3.42	38.37	3	Vertical	39	2.40	-	28.62	3.59	-
AV	2.4835G	53.83	54.00	-0.17	21.65	3	Vertical	39	2.40	-	28.60	3.58	-

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2457MHz_TX

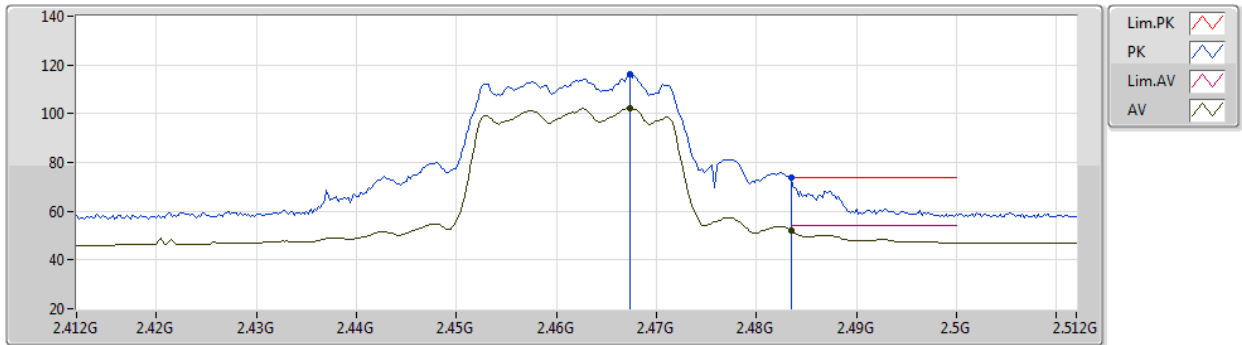

EUT Y_3TX
Setting 85
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4614G	115.39	Inf	-Inf	83.36	3	Horizontal	4	2.27	-	28.47	3.56	-
AV	2.4598G	103.28	Inf	-Inf	71.26	3	Horizontal	4	2.27	-	28.46	3.56	-
PK	2.4842G	70.84	74.00	-3.16	38.65	3	Horizontal	4	2.27	-	28.61	3.58	-
AV	2.4842G	51.83	54.00	-2.17	19.64	3	Horizontal	4	2.27	-	28.61	3.58	-

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2462MHz_TX



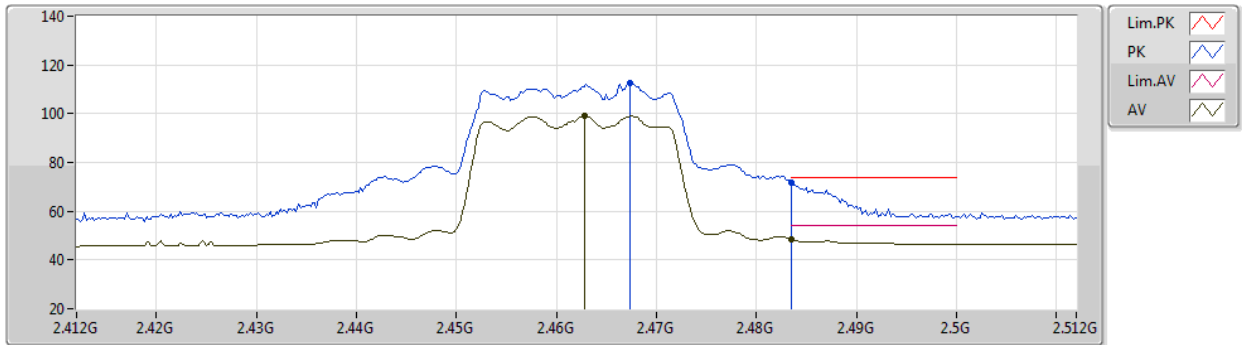
EUT Y_3TX
Setting 72
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4674G	116.04	Inf	-Inf	83.97	3	Vertical	50	1.78	-	28.50	3.57	-
AV	2.4674G	102.39	Inf	-Inf	70.32	3	Vertical	50	1.78	-	28.50	3.57	-
PK	2.4835G	73.76	74.00	-0.24	41.58	3	Vertical	50	1.78	-	28.60	3.58	-
AV	2.4835G	52.27	54.00	-1.73	20.09	3	Vertical	50	1.78	-	28.60	3.58	-

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2462MHz_TX



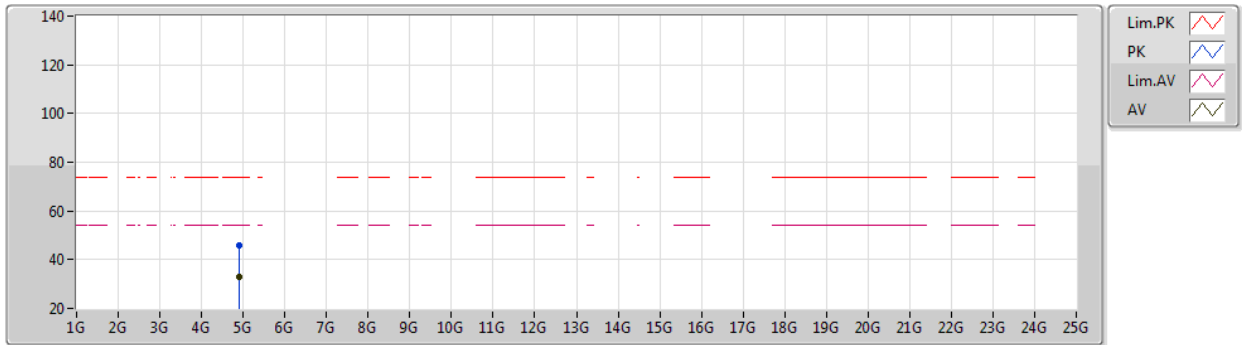
EUT Y_3TX
Setting 72
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4674G	112.49	Inf	-Inf	80.42	3	Horizontal	1	2.09	-	28.50	3.57	-
AV	2.4628G	99.17	Inf	-Inf	67.13	3	Horizontal	1	2.09	-	28.48	3.56	-
PK	2.4835G	71.60	74.00	-2.40	39.42	3	Horizontal	1	2.09	-	28.60	3.58	-
AV	2.4835G	48.46	54.00	-5.54	16.28	3	Horizontal	1	2.09	-	28.60	3.58	-

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2462MHz_TX



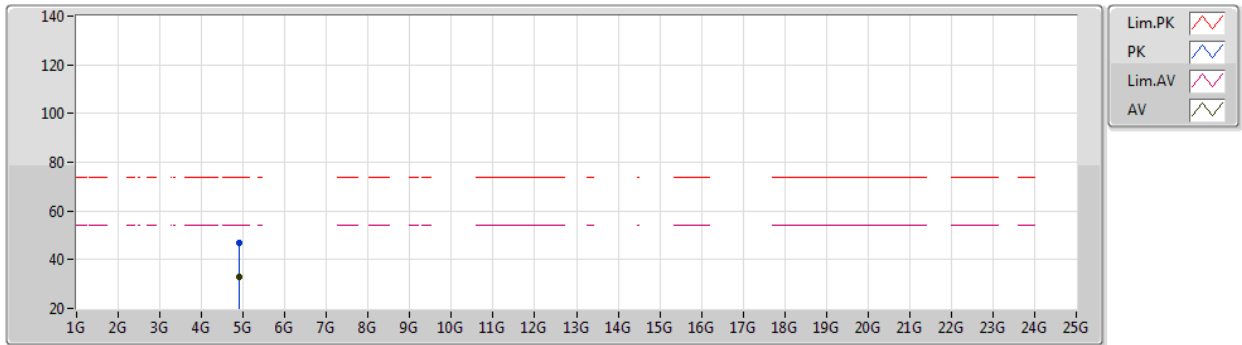
EUT V_3TX
Setting 72
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91368G	46.06	74.00	-27.94	41.46	3	Vertical	217	1.42	-	33.63	6.37	35.40
AV	4.91026G	32.76	54.00	-21.24	28.16	3	Vertical	217	1.42	-	33.62	6.37	35.39

802.11ax HEW20_Nss1,(MCS0)_3TX

05/06/2021

2462MHz_TX



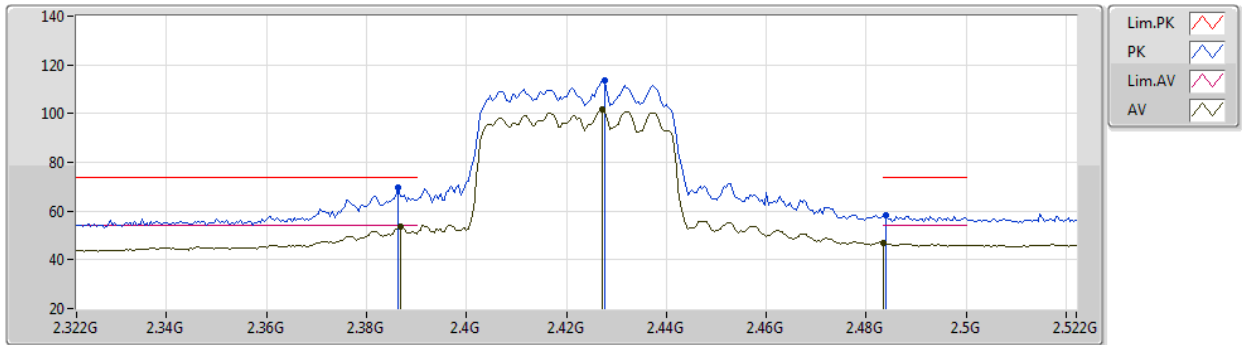
EUT V_3TX
Setting 72
03-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91332G	47.05	74.00	-26.95	42.45	3	Horizontal	130	1.11	-	33.63	6.37	35.40
AV	4.9096G	32.77	54.00	-21.23	28.18	3	Horizontal	130	1.11	-	33.62	6.36	35.39

802.11ax HEW40_Nss1,(MCS0)_3TX

21/05/2021

2422MHz_TX



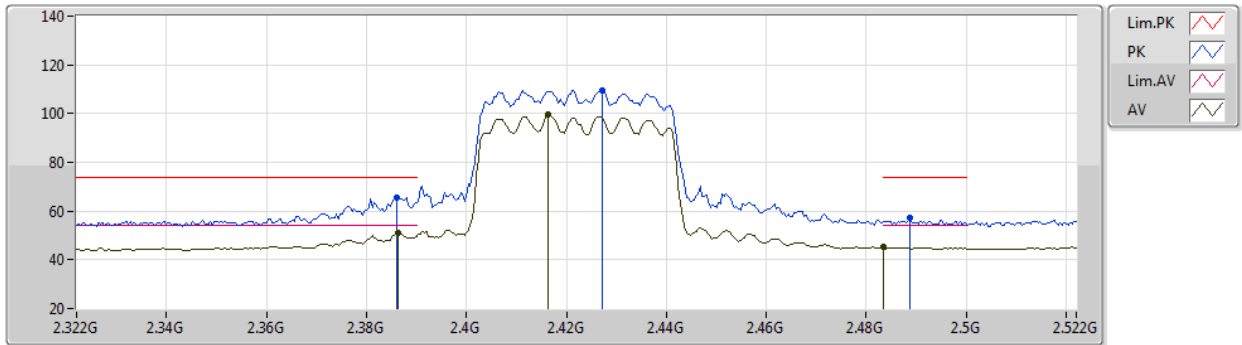
EUT V_3TX
Setting 74
01-C-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3864G	69.79	74.00	-4.21	40.23	3	Vertical	81	1.80	-	27.37	2.19	-
AV	2.3868G	53.67	54.00	-0.33	24.11	3	Vertical	81	1.80	-	27.37	2.19	-
PK	2.4276G	113.81	Inf	-Inf	84.12	3	Vertical	81	1.80	-	27.46	2.23	-
AV	2.4272G	101.70	Inf	-Inf	72.02	3	Vertical	81	1.80	-	27.45	2.23	-
PK	2.484G	58.19	74.00	-15.81	28.21	3	Vertical	81	1.80	-	27.70	2.28	-
AV	2.4835G	47.15	54.00	-6.85	17.17	3	Vertical	81	1.80	-	27.70	2.28	-

802.11ax HEW40_Nss1,(MCS0)_3TX

21/05/2021

2422MHz_TX



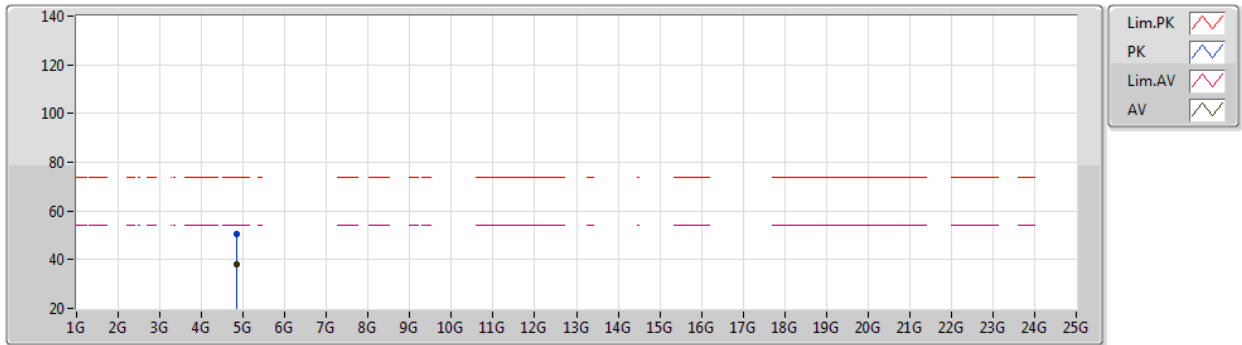
EUT V_3TX
Setting 74
01-C-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.386G	65.77	74.00	-8.23	36.21	3	Horizontal	15	2.13	-	27.37	2.19	-
AV	2.3864G	50.86	54.00	-3.14	21.30	3	Horizontal	15	2.13	-	27.37	2.19	-
PK	2.4272G	109.73	Inf	-Inf	80.05	3	Horizontal	15	2.13	-	27.45	2.23	-
AV	2.4164G	99.57	Inf	-Inf	69.92	3	Horizontal	15	2.13	-	27.43	2.22	-
PK	2.4888G	57.12	74.00	-16.88	27.10	3	Horizontal	15	2.13	-	27.73	2.29	-
AV	2.4835G	45.25	54.00	-8.75	15.27	3	Horizontal	15	2.13	-	27.70	2.28	-

802.11ax HEW40_Nss1,(MCS0)_3TX

21/05/2021

2422MHz_TX



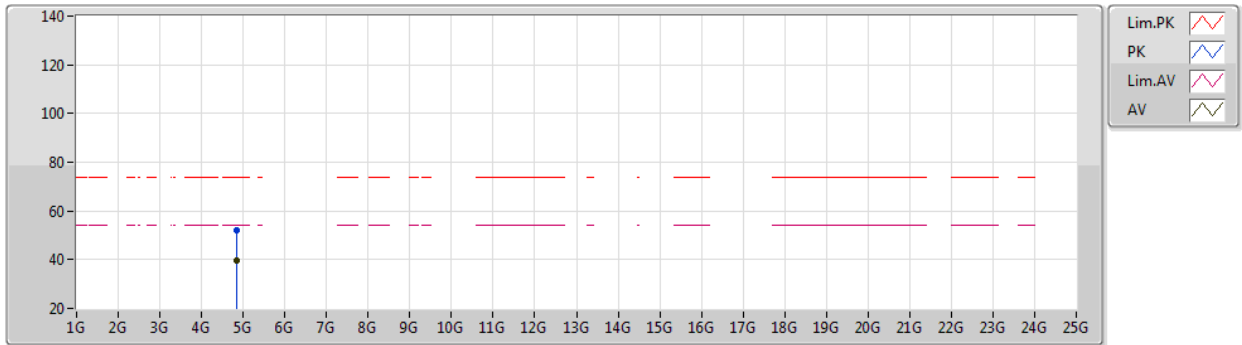
EUT V_3TX
Setting 74
01-C-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84982G	50.44	74.00	-23.56	46.00	3	Vertical	97	1.79	-	32.40	5.02	32.98
AV	4.8449G	37.96	54.00	-16.04	33.55	3	Vertical	97	1.79	-	32.37	5.02	32.98

802.11ax HEW40_Nss1,(MCS0)_3TX

21/05/2021

2422MHz_TX



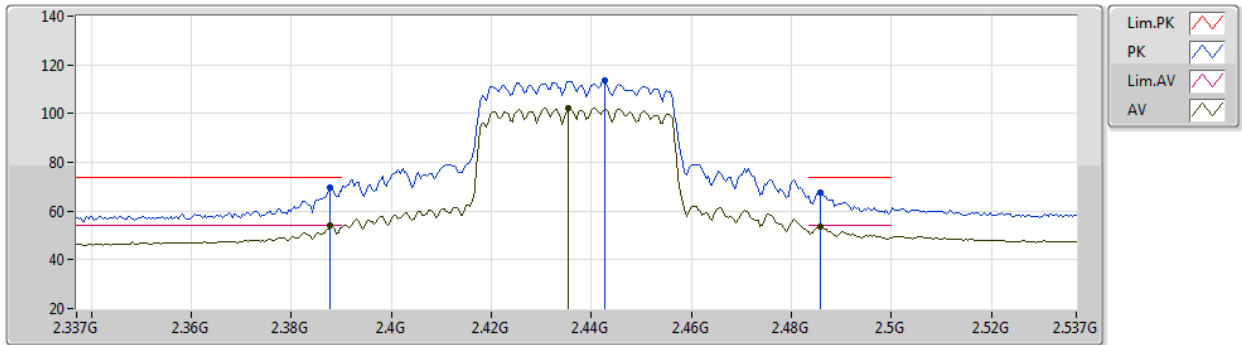
EUT V_3TX
Setting 74
01-C-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84496G	51.82	74.00	-22.18	47.41	3	Horizontal	203	1.72	-	32.37	5.02	32.98
AV	4.85G	39.91	54.00	-14.09	35.46	3	Horizontal	203	1.72	-	32.40	5.03	32.98

802.11ax HEW40_Nss1,(MCS0)_3TX

05/06/2021

2437MHz_TX



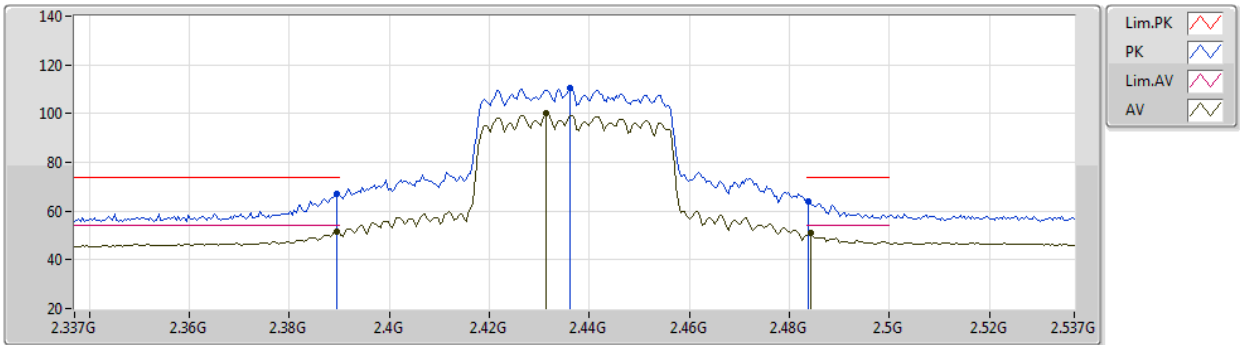
EUT Y_3TX
Setting 81
03-E-C-5

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	2.3878G	69.51	74.00	-4.49	37.70	3	Vertical	89	2.18	-	28.32	3.49	-
AV	2.3878G	53.94	54.00	-0.06	22.13	3	Vertical	89	2.18	-	28.32	3.49	-
PK	2.4426G	113.61	Inf	-Inf	81.68	3	Vertical	89	2.18	-	28.39	3.54	-
AV	2.4354G	102.35	Inf	-Inf	70.44	3	Vertical	89	2.18	-	28.37	3.54	-
PK	2.4858G	67.84	74.00	-6.16	35.64	3	Vertical	89	2.18	-	28.61	3.59	-
AV	2.4858G	53.56	54.00	-0.44	21.36	3	Vertical	89	2.18	-	28.61	3.59	-

802.11ax HEW40_Nss1,(MCS0)_3TX

05/06/2021

2437MHz_TX



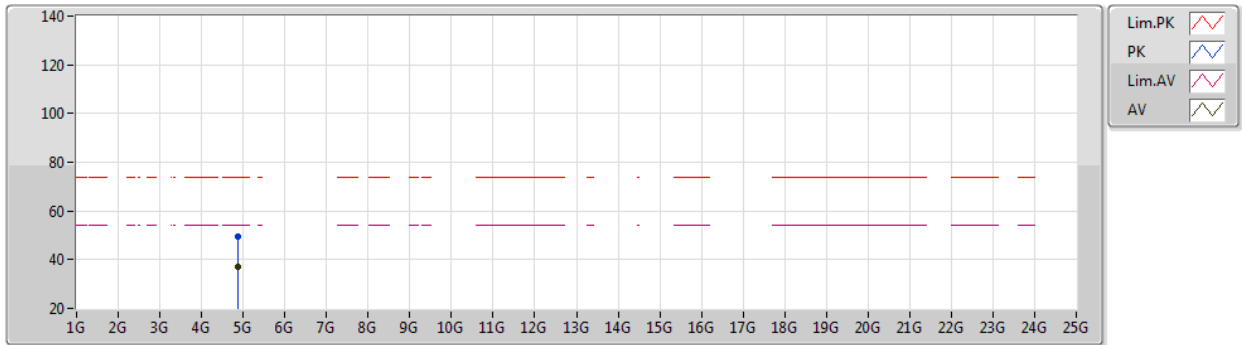
EUT Y_3TX
Setting 81
03-E-C-5

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	2.3894G	66.94	74.00	-7.06	35.13	3	Horizontal	55	1.80	-	28.32	3.49	-
AV	2.3894G	51.67	54.00	-2.33	19.86	3	Horizontal	55	1.80	-	28.32	3.49	-
PK	2.4362G	110.26	Inf	-Inf	78.35	3	Horizontal	55	1.80	-	28.37	3.54	-
AV	2.4314G	100.16	Inf	-Inf	68.27	3	Horizontal	55	1.80	-	28.36	3.53	-
PK	2.4838G	64.15	74.00	-9.85	31.97	3	Horizontal	55	1.80	-	28.60	3.58	-
AV	2.4842G	50.84	54.00	-3.16	18.65	3	Horizontal	55	1.80	-	28.61	3.58	-

802.11ax HEW40_Nss1,(MCS0)_3TX

05/06/2021

2437MHz_TX



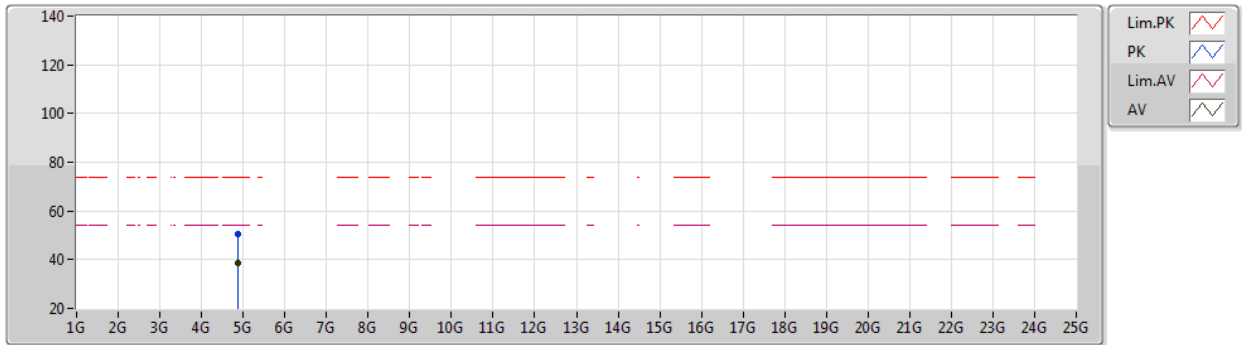
EUT Y_3TX
Setting 81
03-E-C-5

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	4.87472G	49.28	74.00	-24.72	44.83	3	Vertical	88	1.80	-	33.50	6.31	35.36
AV	4.8647G	37.11	54.00	-16.89	32.70	3	Vertical	88	1.80	-	33.46	6.30	35.35

802.11ax HEW40_Nss1,(MCS0)_3TX

05/06/2021

2437MHz_TX



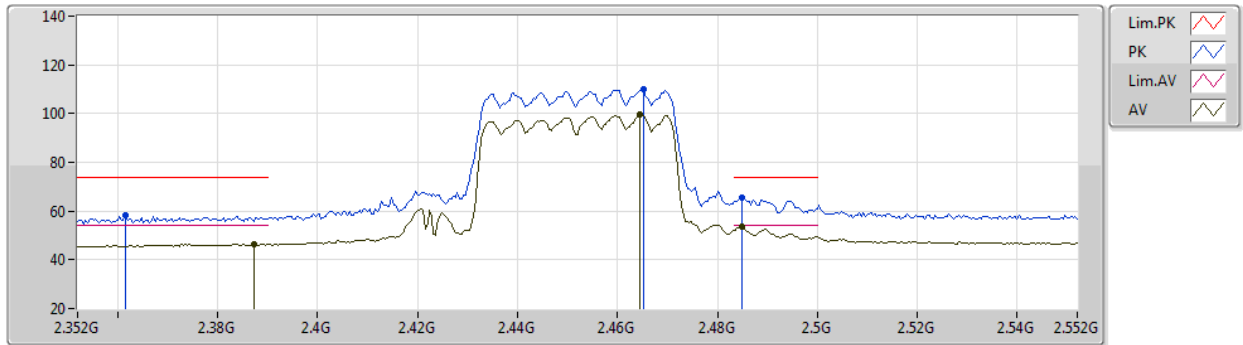
EUT Y_3TX
Setting 81
03-E-C-5

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	4.86488G	50.35	74.00	-23.65	45.94	3	Horizontal	152	1.80	-	33.46	6.30	35.35
AV	4.87508G	38.70	54.00	-15.30	34.25	3	Horizontal	152	1.80	-	33.50	6.31	35.36

802.11ax HEW40_Nss1,(MCS0)_3TX

05/06/2021

2452MHz_TX



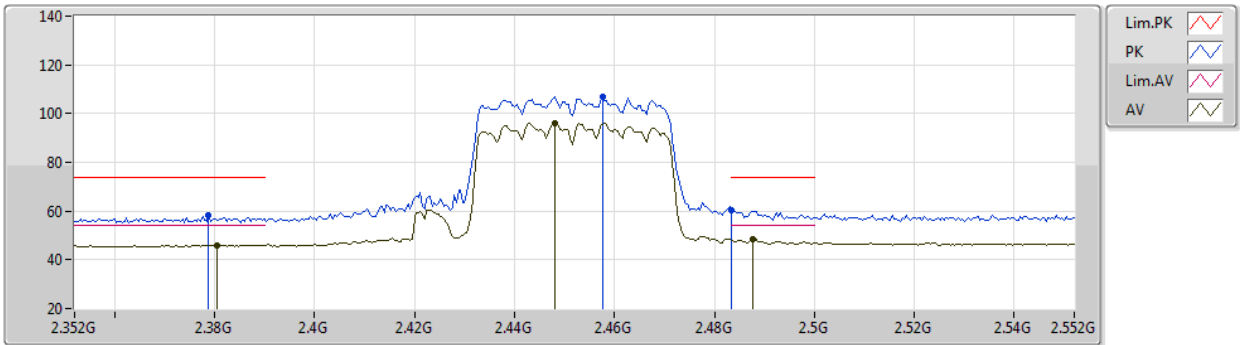
EUT Y_3TX
Setting 70
03-E-C-5

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	2.3616G	58.23	74.00	-15.77	26.39	3	Vertical	49	1.76	-	28.38	3.46	-
AV	2.3872G	46.43	54.00	-7.57	14.61	3	Vertical	49	1.76	-	28.33	3.49	-
PK	2.4652G	110.03	Inf	-Inf	77.97	3	Vertical	49	1.76	-	28.49	3.57	-
AV	2.4644G	99.52	Inf	-Inf	67.47	3	Vertical	49	1.76	-	28.49	3.56	-
PK	2.4848G	65.57	74.00	-8.43	33.38	3	Vertical	49	1.76	-	28.61	3.58	-
AV	2.4848G	53.85	54.00	-0.15	21.66	3	Vertical	49	1.76	-	28.61	3.58	-

802.11ax HEW40_Nss1,(MCS0)_3TX

05/06/2021

2452MHz_TX



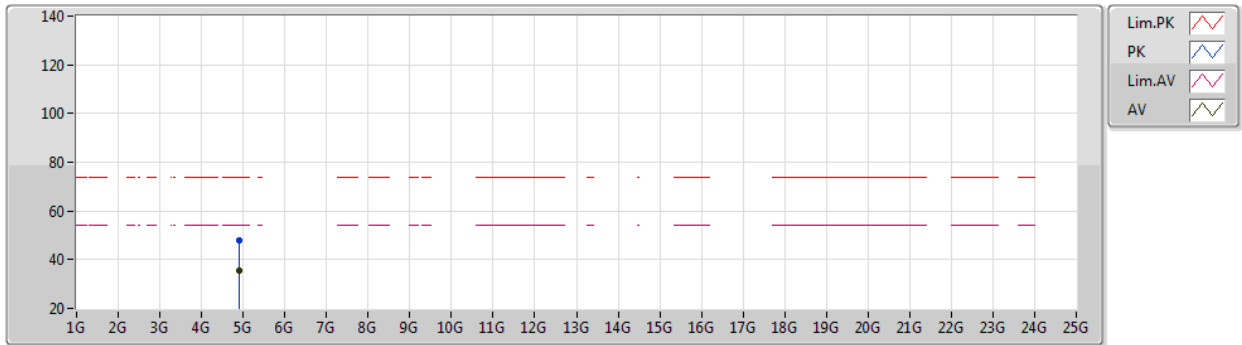
EUT Y_3TX
Setting 70
03-E-C-5

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	2.3788G	58.48	74.00	-15.52	26.66	3	Horizontal	17	1.90	-	28.34	3.48	-
AV	2.3804G	46.08	54.00	-7.92	14.26	3	Horizontal	17	1.90	-	28.34	3.48	-
PK	2.4576G	106.98	Inf	-Inf	74.97	3	Horizontal	17	1.90	-	28.45	3.56	-
AV	2.448G	96.22	Inf	-Inf	64.27	3	Horizontal	17	1.90	-	28.40	3.55	-
PK	2.4835G	60.54	74.00	-13.46	28.36	3	Horizontal	17	1.90	-	28.60	3.58	-
AV	2.4876G	48.56	54.00	-5.44	16.34	3	Horizontal	17	1.90	-	28.63	3.59	-

802.11ax HEW40_Nss1,(MCS0)_3TX

05/06/2021

2452MHz_TX



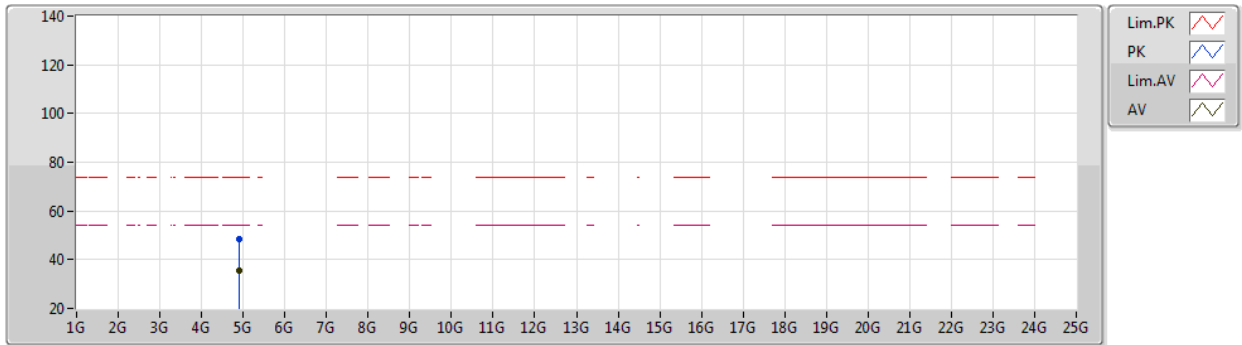
EUT V_3TX
Setting 70
03-E-C-5

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	4.90442G	47.83	74.00	-26.17	43.25	3	Vertical	80	1.86	-	33.61	6.36	35.39
AV	4.8992G	35.26	54.00	-18.74	30.69	3	Vertical	80	1.86	-	33.60	6.35	35.38

802.11ax HEW40_Nss1,(MCS0)_3TX

05/06/2021

2452MHz_TX


EUT V_3TX
Setting 70
03-E-C-5

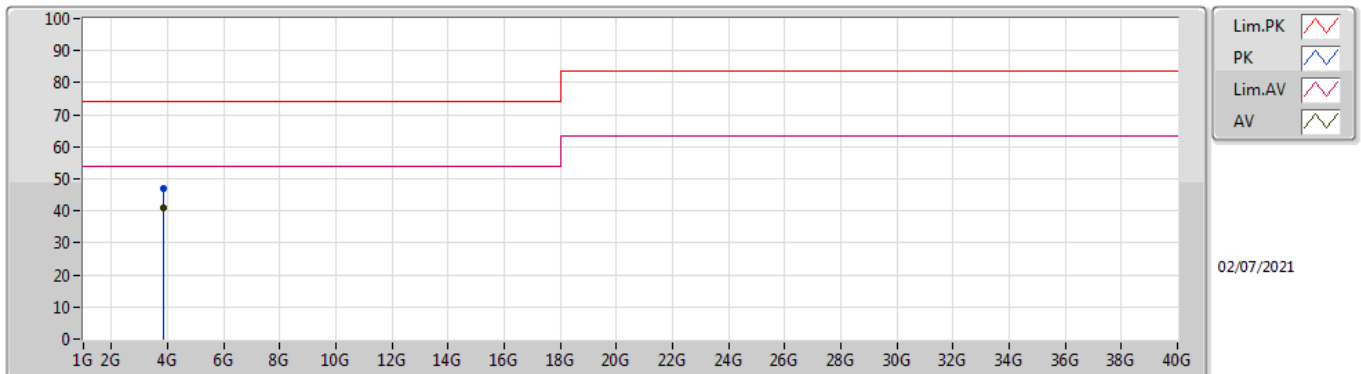
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90532G	48.55	74.00	-25.45	43.97	3	Horizontal	152	1.76	-	33.61	6.36	35.39
AV	4.90064G	35.51	54.00	-18.49	30.94	3	Horizontal	152	1.76	-	33.60	6.35	35.38



Summary

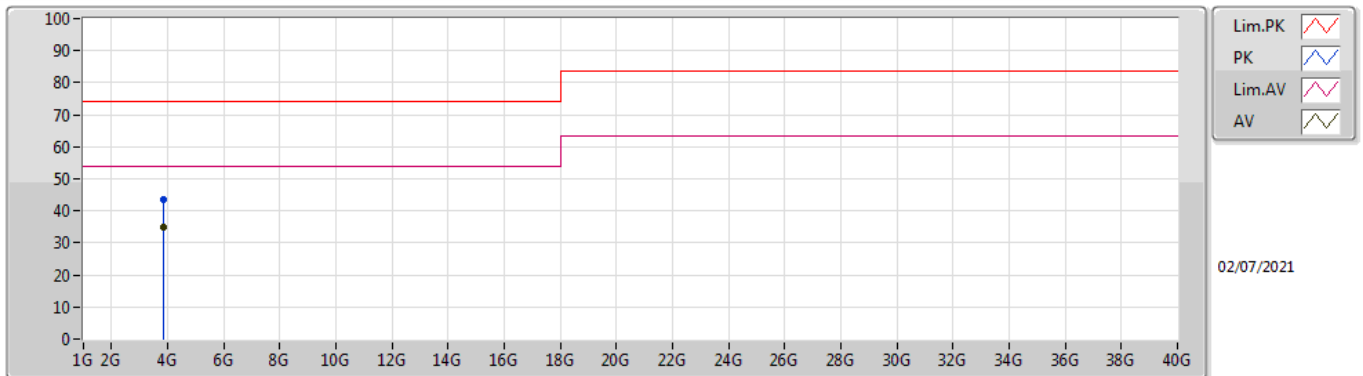
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	3.83001G	40.90	54.00	-13.10	Vertical

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	3.83G	46.81	74.00	-27.19	0.77	3	Vertical	355	1.00	-	46.04	29.46	4.15	32.84
AV	3.83001G	40.90	54.00	-13.10	0.77	3	Vertical	355	1.00	"Worst"	40.13	29.46	4.15	32.84

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	3.82987G	43.37	74.00	-30.63	0.76	3	Horizontal	175	1.02	-	42.61	29.46	4.14	32.84
AV	3.83002G	34.81	54.00	-19.19	0.77	3	Horizontal	175	1.02	"Worst"	34.04	29.46	4.15	32.84