



RADIO TEST REPORT

FCC ID : RSL-TQM6403GEN2

Equipment : IEEE802.11ax tri-radio 5G/5G/2.4GHz 2x2+2x2+2x2 wireless AP

Brand Name : Allied Telesis

Model Name : AT-TQm6403 GEN2

Applicant : Allied Telesis K.K.
2nd. TOC Bldg.7-21-11 Nishi-Gotanda, Shinagawa-ku Tokyo
1410031 Japan

Manufacturer : Allied Telesis K.K.
2nd. TOC Bldg.7-21-11 Nishi-Gotanda, Shinagawa-ku Tokyo
1410031 Japan

Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 01, 2022, and testing was started from Aug. 04, 2022 and completed on Sep. 05, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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



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Appendix G. Test Results of Radiated Emission Co-location

Appendix H. Test Photos

Photographs of EUT v01



History of this test report

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

Page Number : 3 of 34
Issued Date : Oct. 06, 2022
Report Version : 01



Summary of Test Result

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

Note: Reference to Sporton Project No.: 272619.

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: Jessie Wei



1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT20-BF	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	VHT20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11n HT40-BF	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	VHT40-BF	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	2TX

Note:

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

1.1.2 Antenna Information

Ant.	Port			Brand	P/N	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz UNII 1	5GHz UNII 3					
1	1	1	-	WNC	ATKK RANQ-AK610	PIFA	I-PEX	Note 1
2	2	2	-	WNC	ATKK RANQ-AK610	PIFA	I-PEX	
3	-	-	1	WNC	ATKK RANQ-AK610	PIFA	I-PEX	
4	-	-	2	WNC	ATKK RANQ-AK610	PIFA	I-PEX	

Note 1

Ant.	Gain (dBi)		
	2.4GHz	5GHz UNII 1	5GHz UNII 3
1	2.93	5.39	5.95
2	2.69	5.99	5.88
3	-	5.54	5.92
4	-	5.84	5.91

Note 2: The above information was declared by manufacturer.

For 2.4GHz function:

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11a/n/ac/ax mode (2TX/2RX)

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

Port 1 and Port 2 could transmit/receive simultaneously.

Note 3: The directional gain is measured which follows the procedure of KDB 662911 D01.

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

Ex.

Directional Gain (NSS1) formula :

$$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ;$$

$$g_{i,k} = (NSS1(g1,1) + NSS1(g1,2))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

Where :

$$G1 = 10 ; G2 = 10 ;$$

$$2.4G\ G1 = 2.93\ dBi ; G2 = 2.69\ dBi ; DG = 5.82\ dBi$$

$$5G\ UNII1\ G1 = 5.39\ dBi ; G2 = 5.99\ dBi ; DG = 8.71\ dBi$$

$$5G\ UNII3\ G1 = 5.92\ dBi ; G2 = 5.91\ dBi ; DG = 8.93\ dBi$$

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.827	0.82	690u	3k
802.11g	0.96	0.18	1.978m	1k
802.11ax HEW20	0.98	0.09	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.985	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or PoE			
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	QSPR V5.0-00199			

Note: The above information was declared by manufacturer.

1.1.5 Table for Radio function

Radio	WLAN 2.4GHz	5GHz UNII 1	5GHz UNII 3
1	V	-	-
2	-	V	-
3	-	-	V

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 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Owen Hsu	23.3~24.9 / 67~69	Aug. 08, 2022~ Aug. 09, 2022
Radiated <Below 1GHz>	03CH05-CB	Stim Sung	25.1~25.6 / 63~65	Sep. 01, 2022~ Sep. 02, 2022
	03CH06-CB	Stim Sung	24.3~26.3 / 63~66	
Radiated <Above 1GHz>	03CH02-CB	KJ Chang	24.8~26.9 / 62~66	Aug. 04, 2022~ Aug. 08, 2022
Radiated <Co-location>	03CH06-CB	KJ Chang	24.4-25.5 / 55-58	Aug. 04, 2022~ Aug. 08, 2022
AC Conduction	CO01-CB	Dean Chang	20~22 / 60~62	Sep. 05, 2022

Note: The tested sample of the Radiated Emission <Below 1GHz> and AC Power-line Conducted Emissions test item was received on Aug. 08, 2022.



1.4 Measurement Uncertainty

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

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



2 Test Configuration of EUT

2.1 Test Channel Mode

<Non-beamforming mode>

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	23
2417MHz	-
2437MHz	25
2457MHz	-
2462MHz	23
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	20.5
2417MHz	21.5
2437MHz	25
2457MHz	21
2462MHz	19.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	20
2417MHz	21.5
2437MHz	25
2457MHz	21
2462MHz	19.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	19.5
2437MHz	19.5
2452MHz	19

<Beamforming mode>

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	20
2417MHz	21.5
2437MHz	25
2457MHz	21
2462MHz	19.5
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	19.5
2437MHz	19.5
2452MHz	19

Note:

1. 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.
2. The EUT supports non-beamforming and beamforming modes, after evaluating, the non-beamforming mode has been evaluated to be the worst case, so it was selected to test. The beamforming mode evaluates the output power only.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT with Adapter
2	EUT with PoE 1_LAN 1
3	EUT with PoE 1_LAN 2
Mode 3 generated the worst test result, so it was recorded in this report.	

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

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



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	The EUT can be placed in X axis, Y axis and Z axis. EUT Z axis has been evaluated to be the worst case at Radiated measurement <Above 1GHz>; thus, the measurement will follow this same test configuration.
1	EUT in Z axis + WLAN 2.4GHz + WLAN 5GHz_UNII1
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	EUT + WLAN 2.4GHz + WLAN 5GHz_UNII1 + WLAN 5GHz_UNII3
Refer to Sporton Test Report No.: FA272620 for Co-location RF Exposure Evaluation.	

Note: The Adapter and PoEs below are for measurement only, would not be marketed.

The Adapter and PoEs information as below:

Support Unit	Brand Name	Model
Adapter	APD	DA-48Z12
PoE 1	Microsemi	PD-9001-10GC/AC
PoE 2	PHIHONG	POEA33U-1ATE

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Wall-mounted rack*1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN1 NB	DELL	E6430	N/A
B	LAN2 NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5GL NB	DELL	E6430	N/A
E	5GH NB	DELL	E6430	N/A
F	PoE 1	Microsemi	PD-9001-10GC/AC	N/A

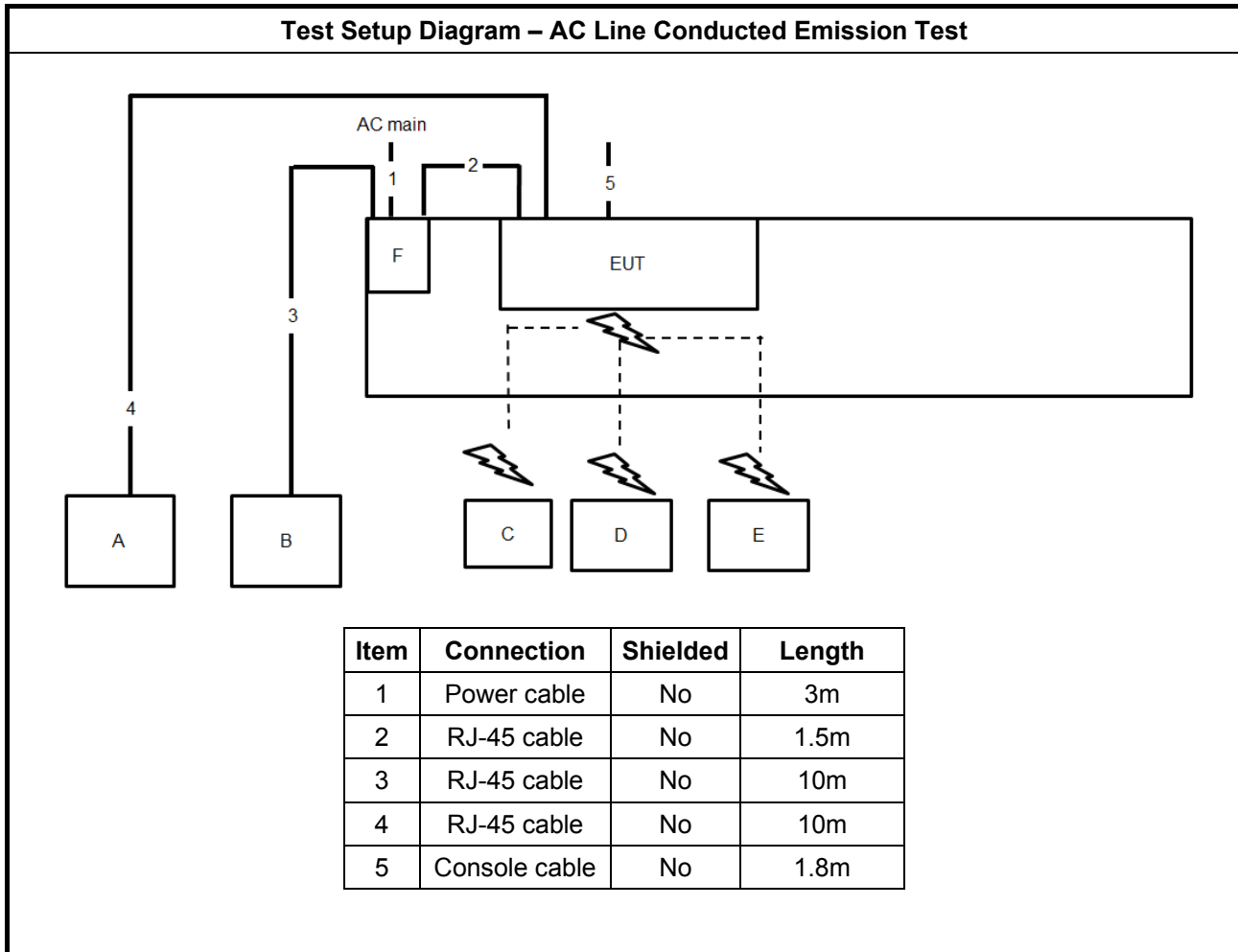
For Radiated <below 1GHz>:

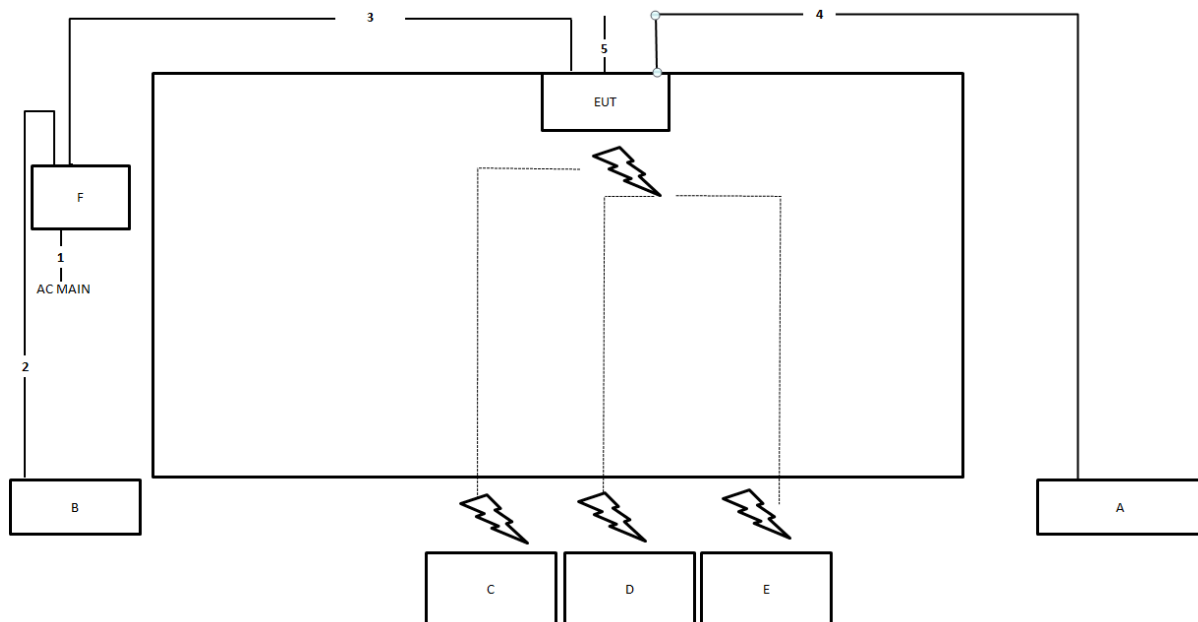
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PC (PoE LAN)	DELL	T3400	N/A
B	PC(LAN)	DELL	OPTIPLEX 380	N/A
C	2.4G WIFI NB	DELL	E4300	N/A
D	5G L WIFI NB	DELL	E4300	N/A
E	5G H WIFI NB	DELL	E4300	N/A
F	PoE 1	Microsemi	PD-9001-10GC/AC	N/A

For Radiated <above 1GHz> and For RF Conducted:

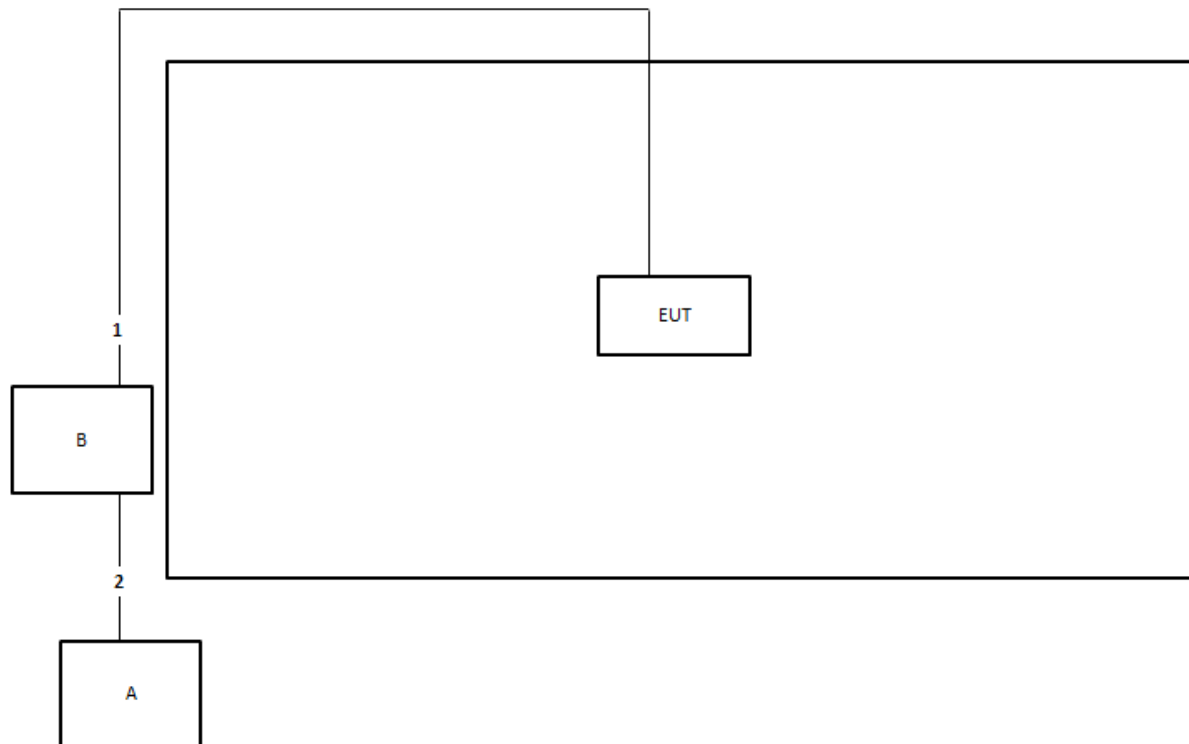
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 2	PHIHONG	POEA33U-1ATE	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m
5	Console cable	No	1.8m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m



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.

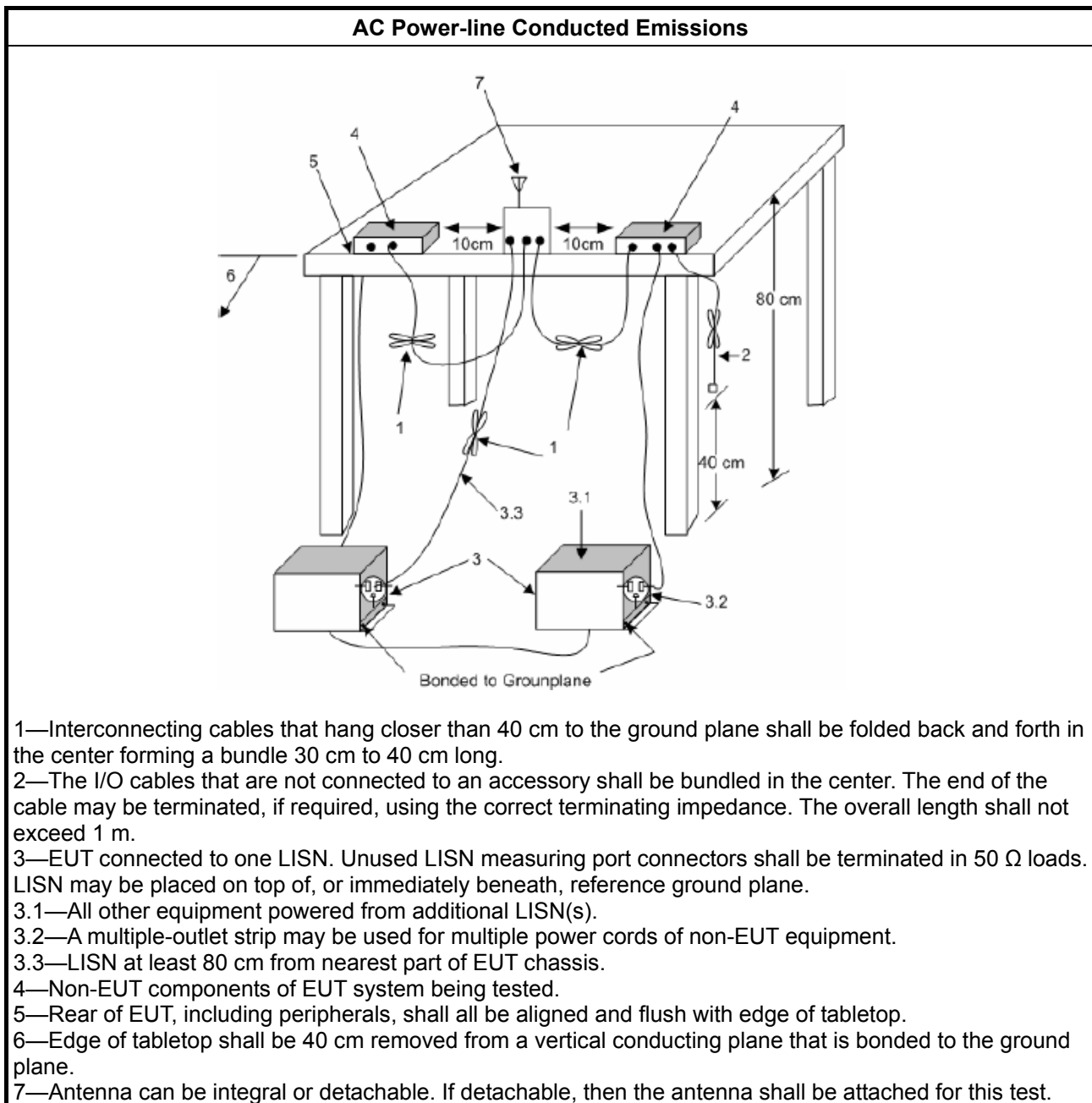
3.1.2 Measuring Instruments

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.

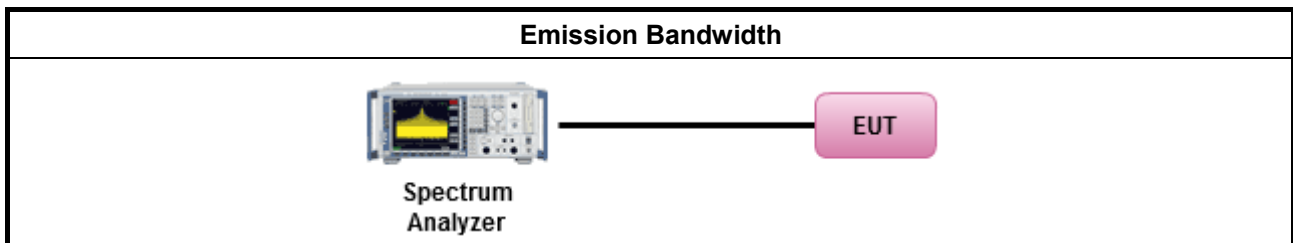
3.2.2 Measuring Instruments

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.	

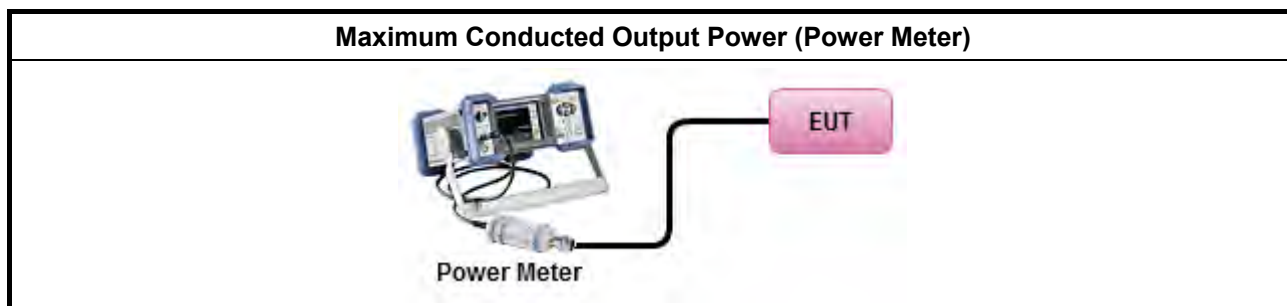
3.3.2 Measuring Instruments

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

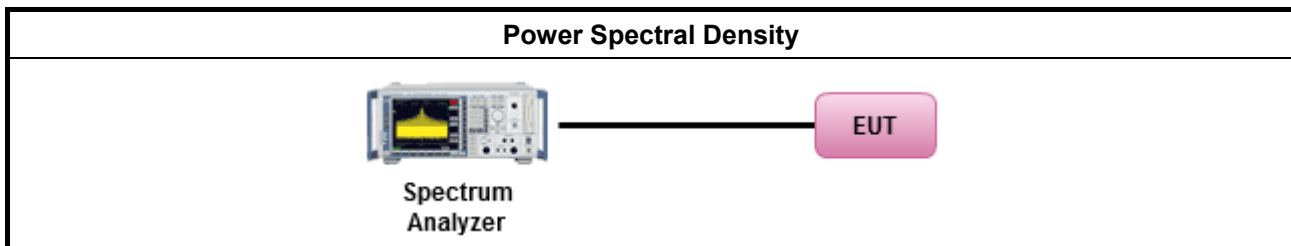
3.4.2 Measuring Instruments

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.	

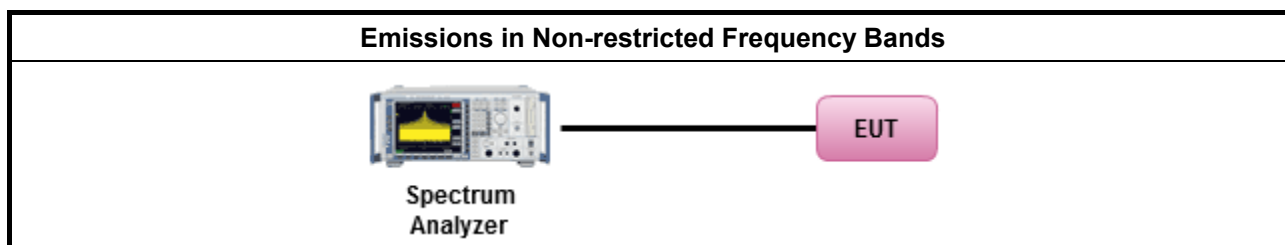
3.5.2 Measuring Instruments

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

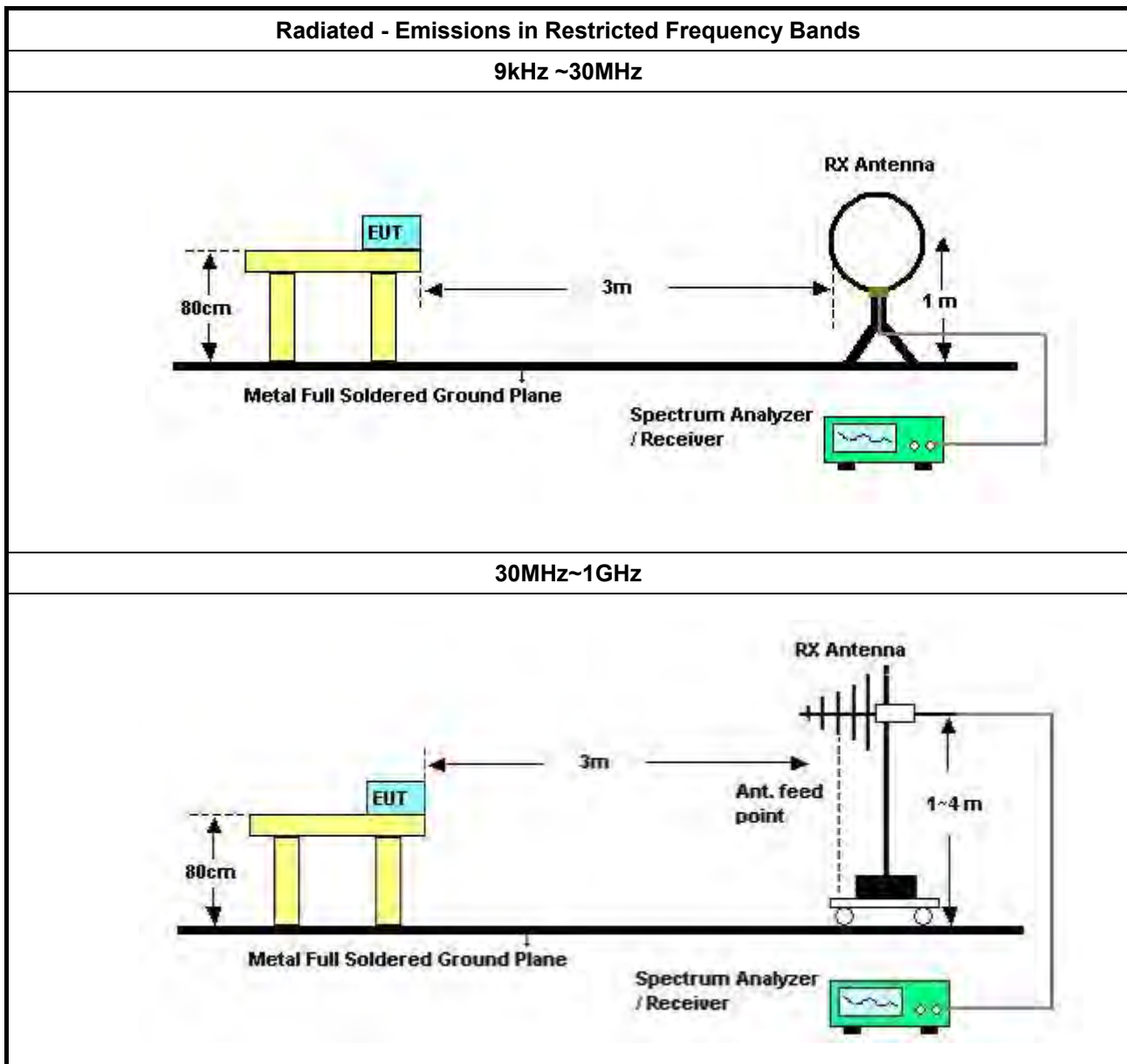
Refer a test equipment and calibration data table in this test report.

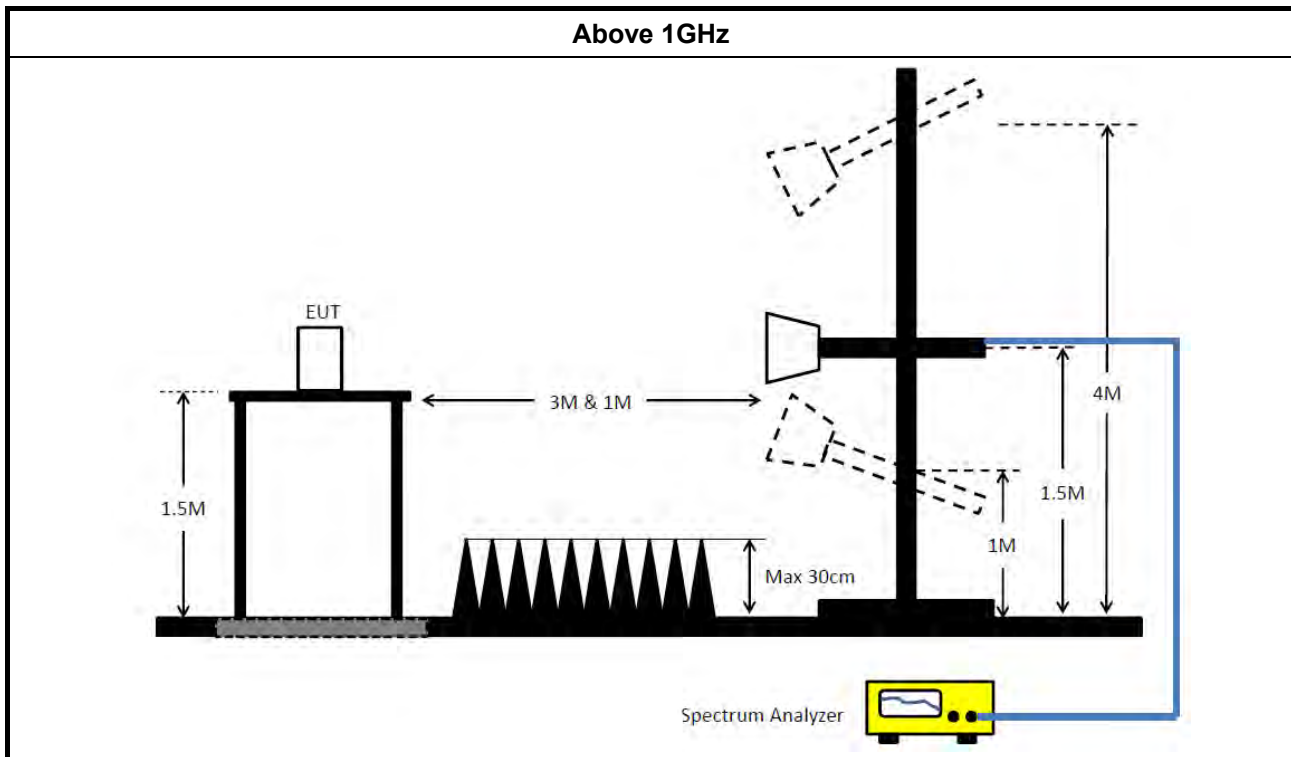


3.6.3 Test Procedures

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	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-1 6-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 18, 2022	May 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 18, 2022	Mar. 17, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMC	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 18, 2022	Mar. 17, 2023	Radiation (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 04, 2022	Aug. 03, 2023	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~ 18GHz 3m	Oct. 01, 2021	Sep. 30, 2022	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMC	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Jul. 31, 2022	Jul. 30, 2023	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 04, 2021	Nov. 03, 2022	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug 02, 2022	Aug 01, 2023	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 24, 2021	Dec. 23, 2022	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-24+67	30MHz~1GHz	Jun. 20, 2022	Jun. 19, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-67	1GHz~18GHz	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+67	1GHz~18GHz	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 19, 2022	Apr. 18, 2023	Radiation (03CH02-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2022	Apr. 25, 2023	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 25, 2021	Oct. 24, 2022	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 25, 2021	Oct. 24, 2022	Conducted (TH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

NCR means Non-Calibration required.



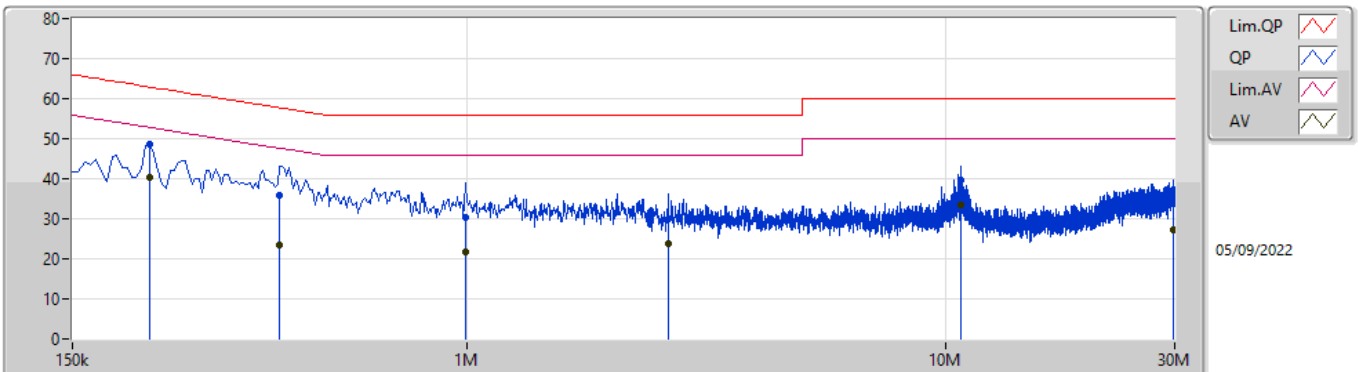
Conducted Emissions at Powerline

Appendix A

Summary

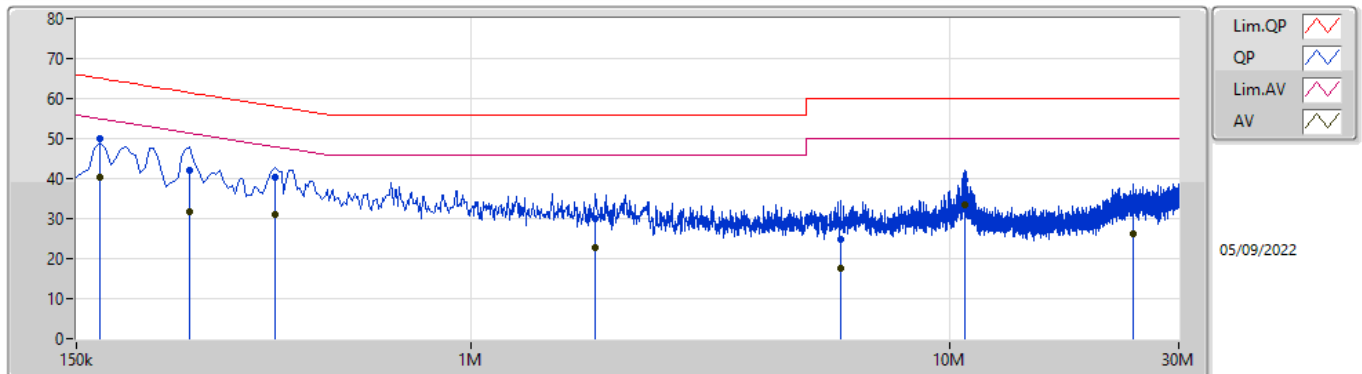
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	AV	217.5k	40.36	52.92	-12.56	Line

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	217.5k	48.66	62.92	-14.26	9.99	Line	-	38.67	0.06	0.04	9.89			
AV	217.5k	40.36	52.92	-12.56	9.99	Line	"Worst"	30.37	0.06	0.04	9.89			
QP	406.5k	35.69	57.72	-22.03	10.01	Line	-	25.68	0.06	0.06	9.89			
AV	406.5k	23.50	47.72	-24.22	10.01	Line	-	13.49	0.06	0.06	9.89			
QP	991.5k	30.22	56.00	-25.78	10.00	Line	-	20.22	0.07	0.04	9.89			
AV	991.5k	21.60	46.00	-24.40	10.00	Line	-	11.60	0.07	0.04	9.89			
QP	2.63M	30.04	56.00	-25.96	10.08	Line	-	19.96	0.10	0.09	9.89			
AV	2.63M	23.74	46.00	-22.26	10.08	Line	-	13.66	0.10	0.09	9.89			
QP	10.703M	39.75	60.00	-20.25	10.31	Line	-	29.44	0.23	0.16	9.92			
AV	10.703M	33.49	50.00	-16.51	10.31	Line	-	23.18	0.23	0.16	9.92			
QP	29.819M	33.85	60.00	-26.15	10.76	Line	-	23.09	0.40	0.34	10.02			
AV	29.819M	27.08	50.00	-22.92	10.76	Line	-	16.32	0.40	0.34	10.02			

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	168k	50.05	65.06	-15.01	10.00	Neutral	-	40.05	0.07	0.04	9.89			
AV	168k	40.31	55.06	-14.75	10.00	Neutral	"Worst"	30.31	0.07	0.04	9.89			
QP	258k	42.05	61.49	-19.44	10.01	Neutral	-	32.04	0.07	0.05	9.89			
AV	258k	31.57	51.49	-19.92	10.01	Neutral	-	21.56	0.07	0.05	9.89			
QP	388.5k	40.27	58.10	-17.83	10.02	Neutral	-	30.25	0.07	0.06	9.89			
AV	388.5k	31.04	48.10	-17.06	10.02	Neutral	-	21.02	0.07	0.06	9.89			
QP	1.815M	30.06	56.00	-25.94	10.07	Neutral	-	19.99	0.10	0.08	9.89			
AV	1.815M	22.64	46.00	-23.36	10.07	Neutral	-	12.57	0.10	0.08	9.89			
QP	5.919M	24.92	60.00	-35.08	10.21	Neutral	-	14.71	0.18	0.13	9.90			
AV	5.919M	17.58	50.00	-32.42	10.21	Neutral	-	7.37	0.18	0.13	9.90			
QP	10.703M	39.70	60.00	-20.30	10.33	Neutral	-	29.37	0.25	0.16	9.92			
AV	10.703M	33.44	50.00	-16.56	10.33	Neutral	-	23.11	0.25	0.16	9.92			
QP	24.072M	32.91	60.00	-27.09	10.54	Neutral	-	22.37	0.30	0.27	9.97			
AV	24.072M	26.20	50.00	-23.80	10.54	Neutral	-	15.66	0.30	0.27	9.97			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.075M	14.643M	14M6G1D	8.025M	13.243M
802.11g_Nss1,(6Mbps)_2TX	16.275M	18.066M	18M1D1D	16.025M	16.417M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.6M	19.24M	19M2D1D	17.1M	18.891M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.7M	37.981M	38M0D1D	36.3M	37.831M

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

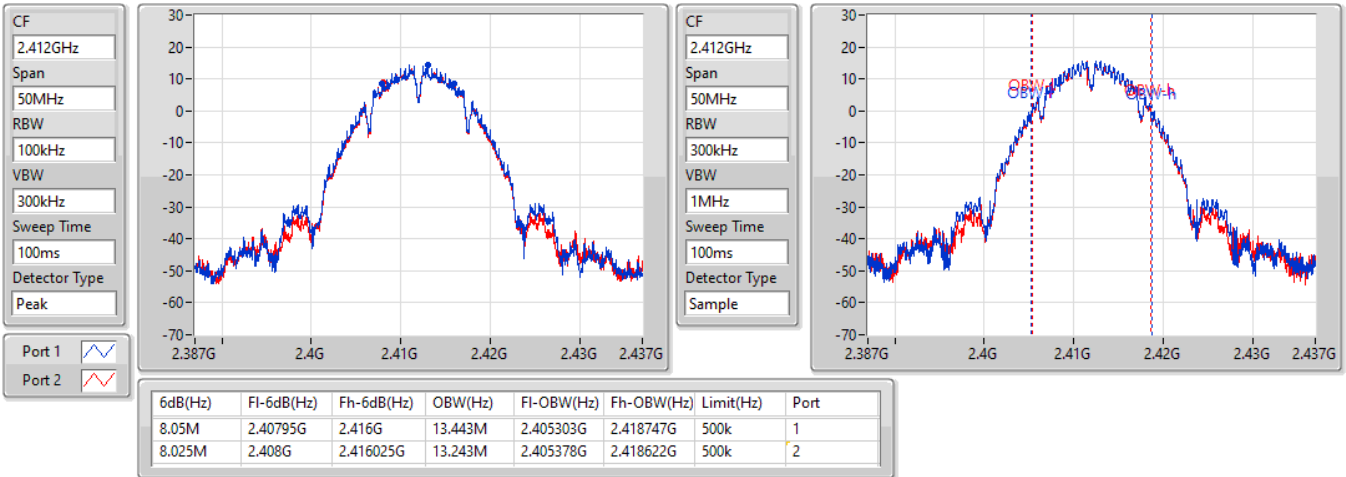
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.05M	13.443M	8.025M	13.243M
2437MHz	Pass	500k	8.05M	14.643M	8.05M	14.643M
2462MHz	Pass	500k	8.075M	13.968M	8.075M	13.643M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.275M	16.517M	16.275M	16.467M
2437MHz	Pass	500k	16.025M	17.991M	16.275M	18.066M
2462MHz	Pass	500k	16.025M	16.417M	16.025M	16.442M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.05M	18.941M	17.725M	18.966M
2437MHz	Pass	500k	18.6M	19.24M	17.1M	19.215M
2462MHz	Pass	500k	17.6M	18.941M	18.075M	18.891M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.7M	37.881M	36.3M	37.981M
2437MHz	Pass	500k	37.55M	37.981M	36.55M	37.881M
2452MHz	Pass	500k	37.2M	37.831M	37.15M	37.831M

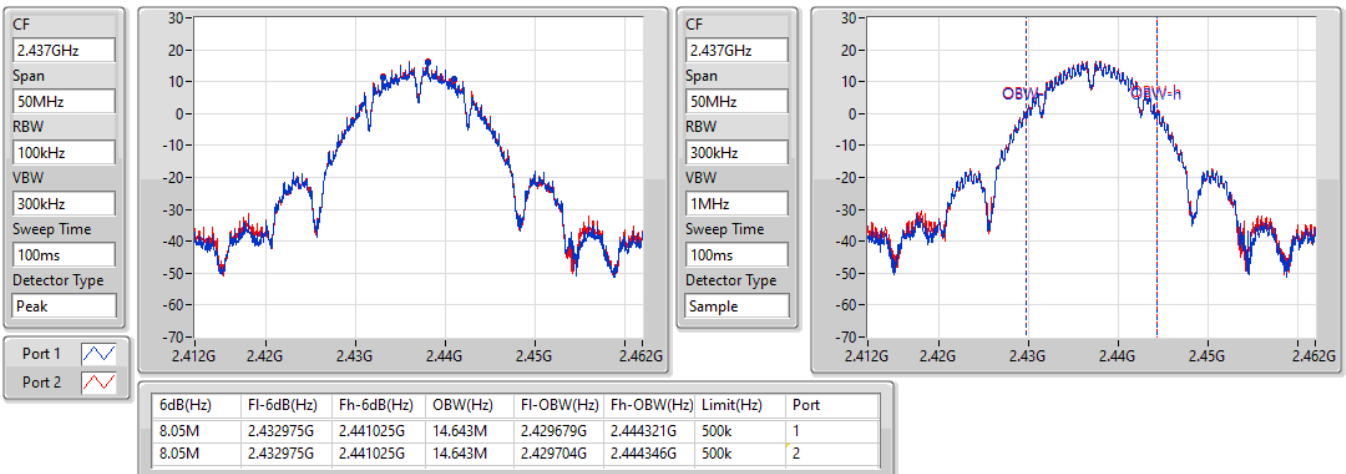
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

08/08/2022


802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

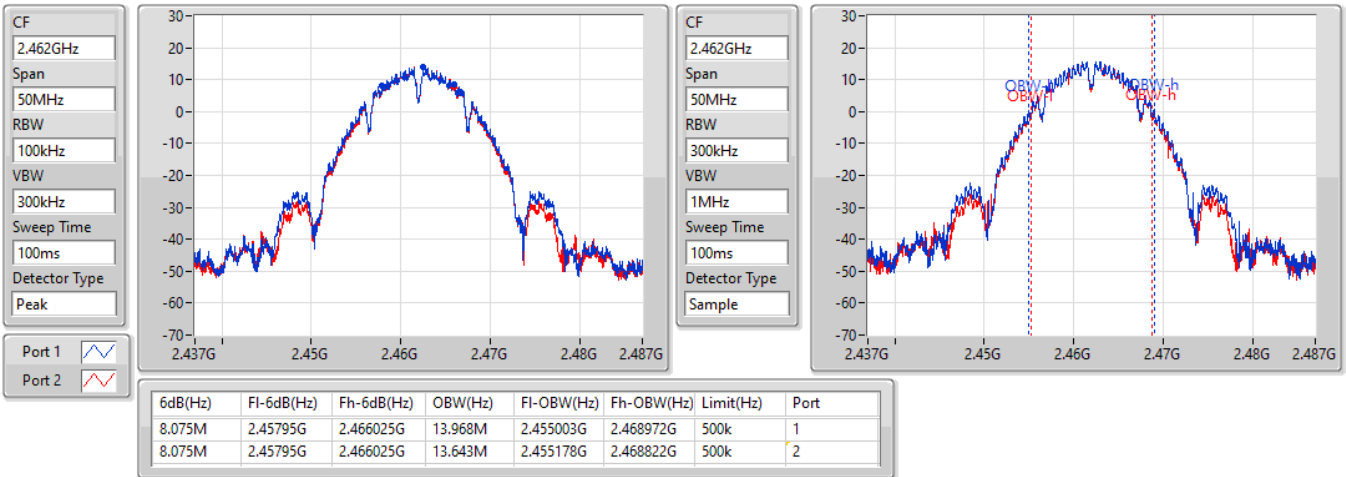
08/08/2022



802.11b_Nss1,(1Mbps)_2TX

2462MHz

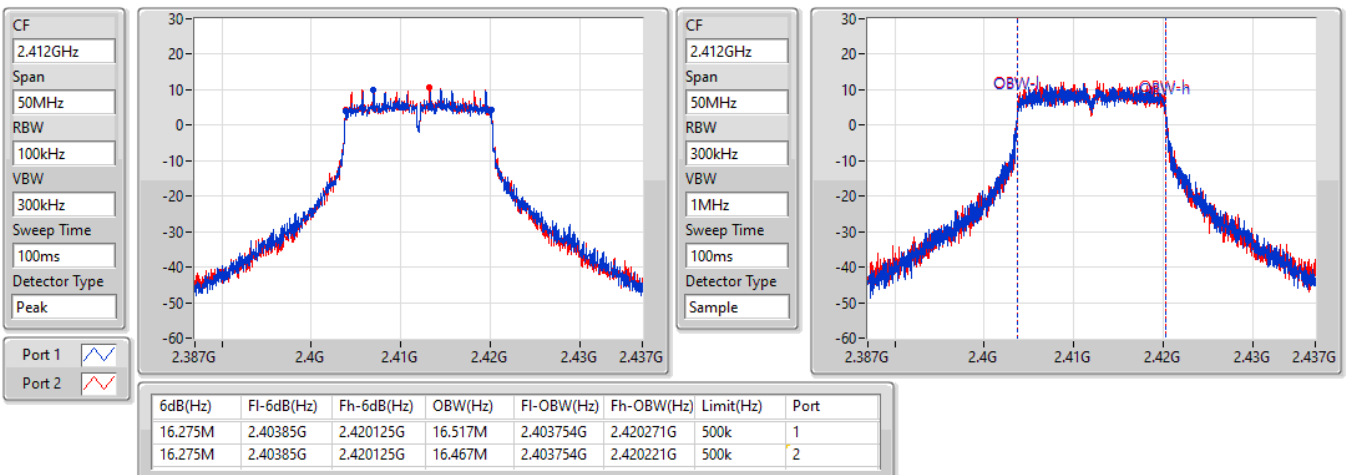
08/08/2022



802.11g_Nss1,(6Mbps)_2TX

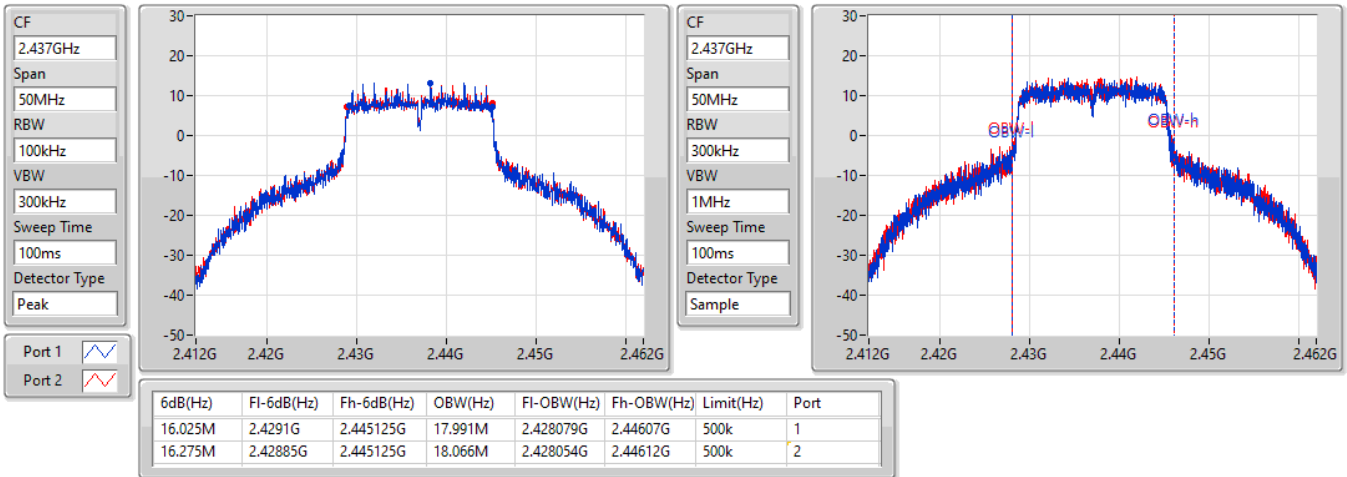
2412MHz

08/08/2022

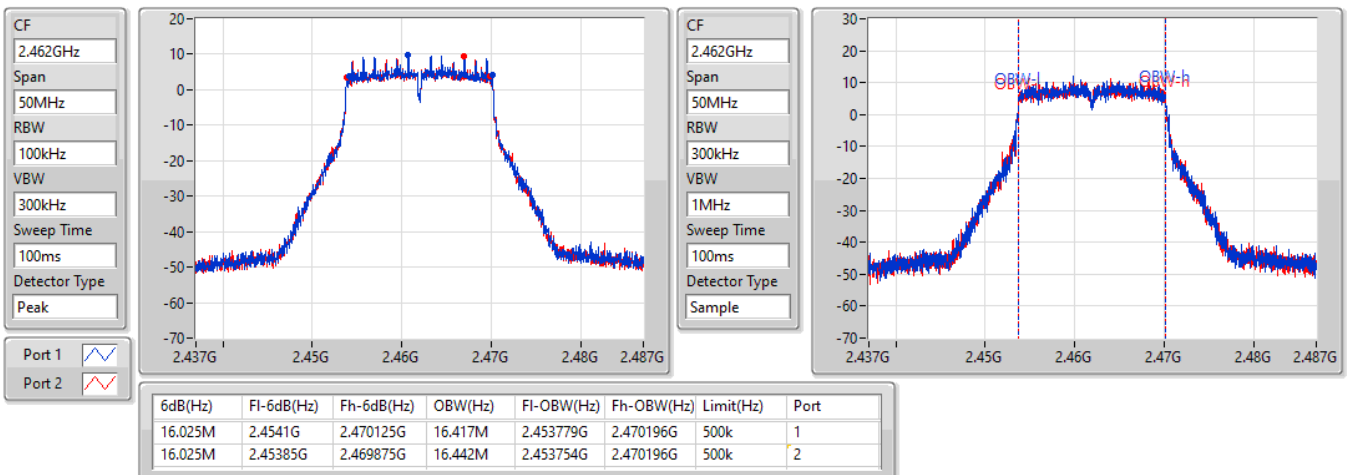


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

08/08/2022

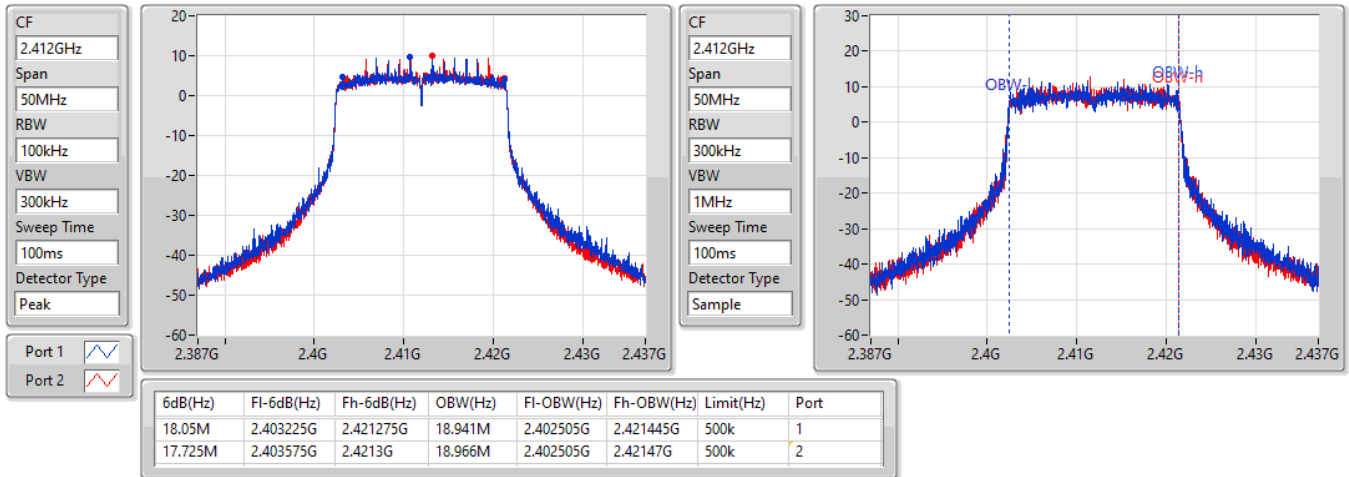

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

08/08/2022

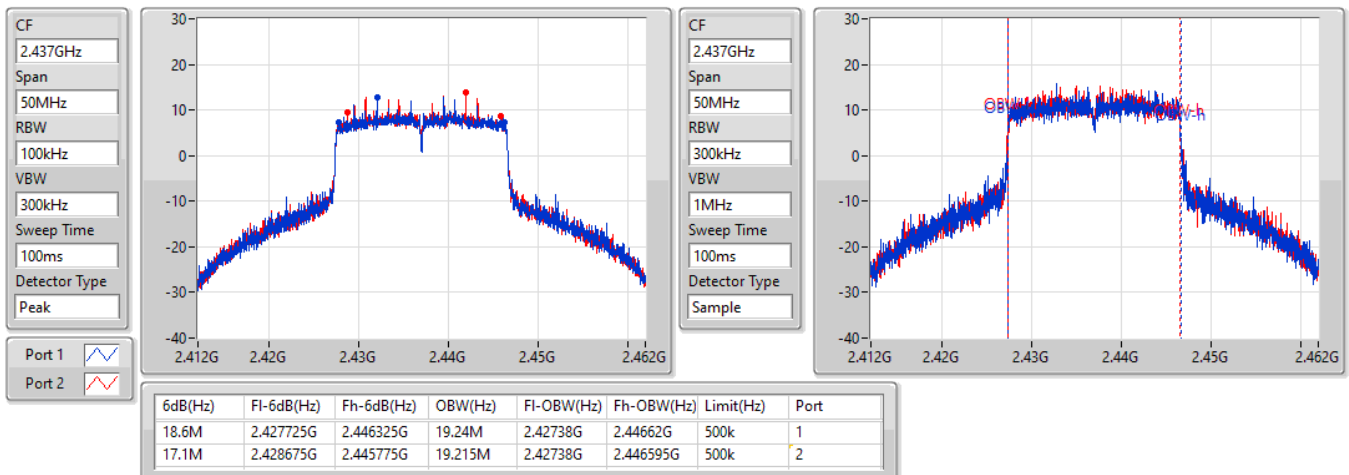


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2412MHz

08/08/2022

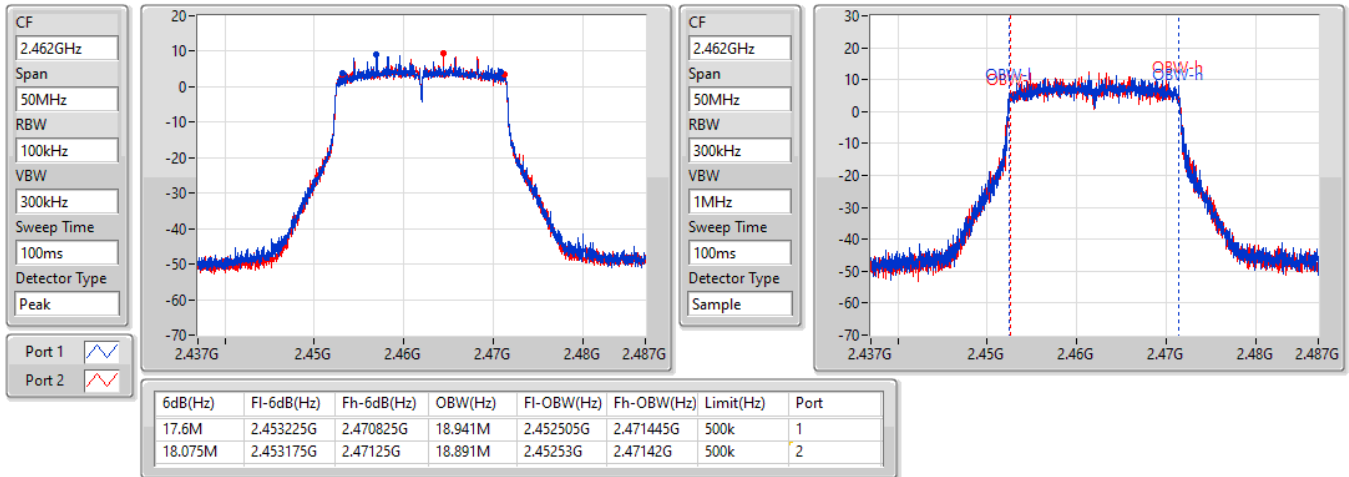

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2437MHz

08/08/2022

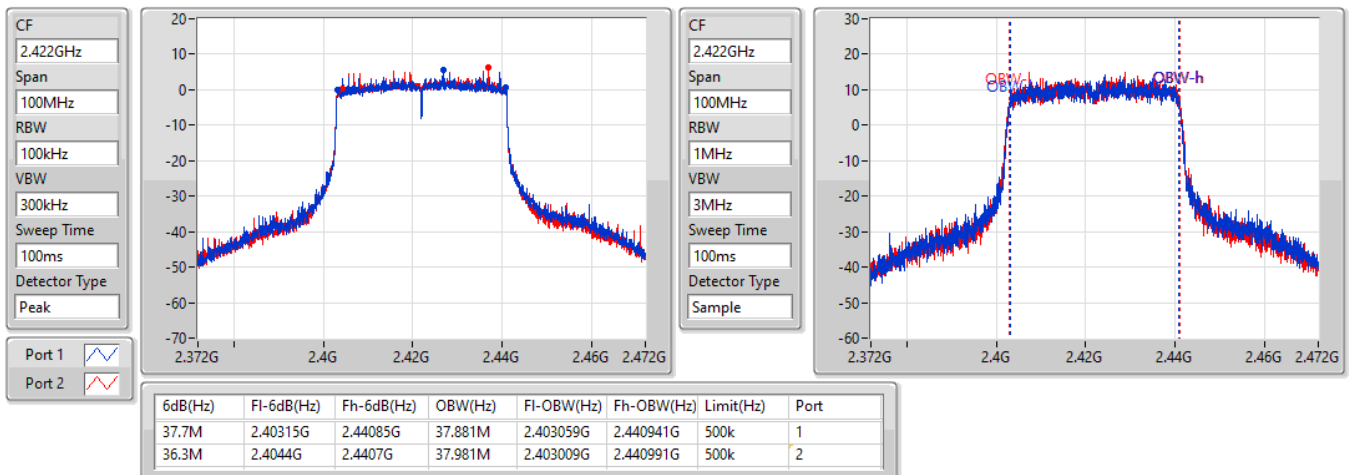


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2462MHz

08/08/2022

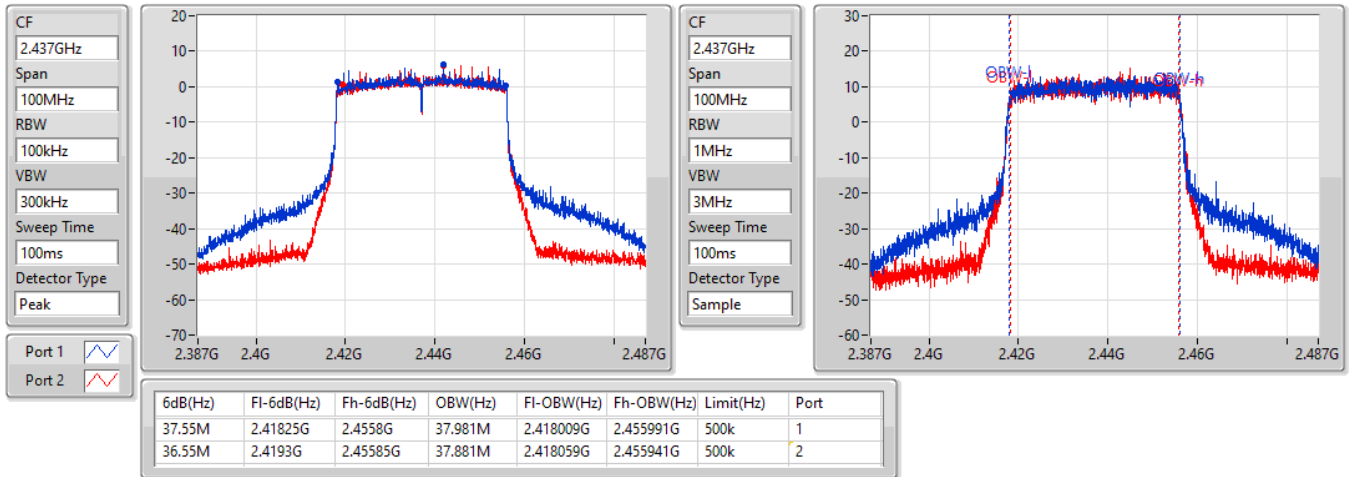

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2422MHz

08/08/2022

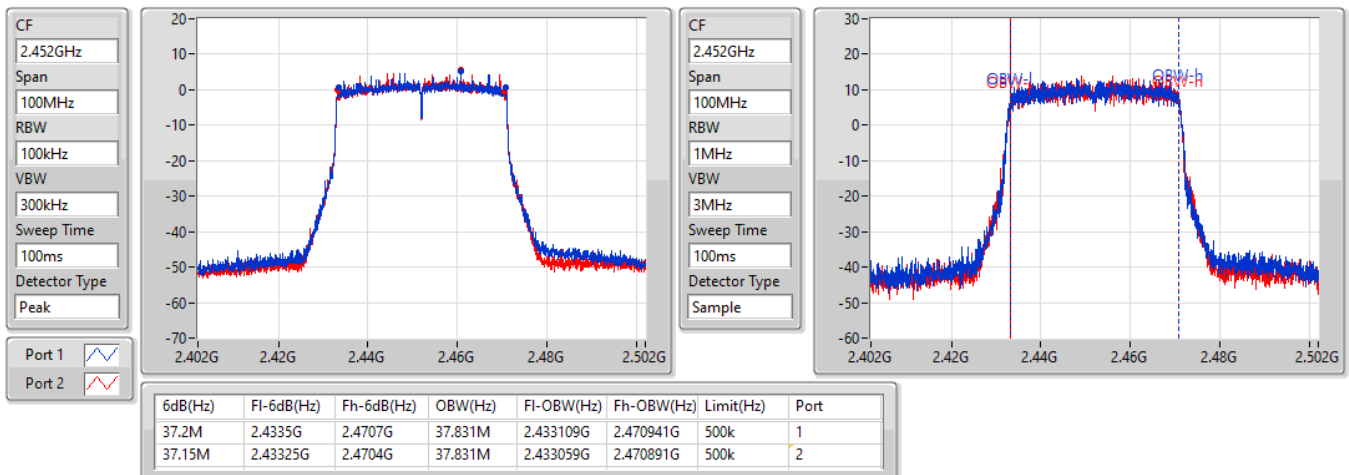


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2437MHz

08/08/2022


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2452MHz

08/08/2022





Average Power <Non-beamforming mode>

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	26.75	0.47315
802.11g_Nss1,(6Mbps)_2TX	26.23	0.41976
802.11ax HEW20_Nss1,(MCS0)_2TX	25.91	0.38994
802.11ax HEW40_Nss1,(MCS0)_2TX	22.36	0.17219

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.93	22.72	22.64	25.69	30.00
2437MHz	Pass	2.93	23.61	23.86	26.75	30.00
2462MHz	Pass	2.93	22.85	22.77	25.82	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.93	20.24	20.41	23.34	30.00
2437MHz	Pass	2.93	23.08	23.35	26.23	30.00
2462MHz	Pass	2.93	19.21	19.33	22.28	30.00
2417MHz	Pass	2.93	21.23	21.38	24.32	30.00
2457MHz	Pass	2.93	20.81	20.84	23.84	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.93	19.24	19.43	22.35	30.00
2437MHz	Pass	2.93	22.76	23.03	25.91	30.00
2462MHz	Pass	2.93	18.77	18.85	21.82	30.00
2417MHz	Pass	2.93	20.67	20.87	23.78	30.00
2457MHz	Pass	2.93	20.24	20.38	23.32	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.93	19.25	19.35	22.31	30.00
2437MHz	Pass	2.93	19.41	19.29	22.36	30.00
2452MHz	Pass	2.93	18.89	18.77	21.84	30.00

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



Average Power<beamforming mode>

Appendix C.2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	25.91	0.38994
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	22.36	0.17219

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.82	19.24	19.43	22.35	30.00
2437MHz	Pass	5.82	22.76	23.03	25.91	30.00
2462MHz	Pass	5.82	18.77	18.85	21.82	30.00
2417MHz	Pass	5.82	20.67	20.87	23.78	30.00
2457MHz	Pass	5.82	20.24	20.38	23.32	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.82	19.25	19.35	22.31	30.00
2437MHz	Pass	5.82	19.41	19.29	22.36	30.00
2452MHz	Pass	5.82	18.89	18.77	21.84	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	6.18
802.11g_Nss1,(6Mbps)_2TX	-1.62
802.11ax HEW20_Nss1,(MCS0)_2TX	-1.76
802.11ax HEW40_Nss1,(MCS0)_2TX	-7.62

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.82	-0.91	-0.96	2.08	8.00
2437MHz	Pass	5.82	3.27	3.07	6.18	8.00
2462MHz	Pass	5.82	-0.22	-0.19	2.81	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.82	-6.71	-6.84	-4.31	8.00
2437MHz	Pass	5.82	-4.17	-4.32	-1.62	8.00
2462MHz	Pass	5.82	-7.53	-7.58	-5.64	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.82	-6.35	-6.73	-4.82	8.00
2437MHz	Pass	5.82	-3.66	-3.69	-1.76	8.00
2462MHz	Pass	5.82	-7.44	-7.72	-6.05	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.82	-9.27	-9.48	-7.95	8.00
2437MHz	Pass	5.82	-9.23	-9.19	-7.62	8.00
2452MHz	Pass	5.82	-9.88	-10.18	-8.46	8.00

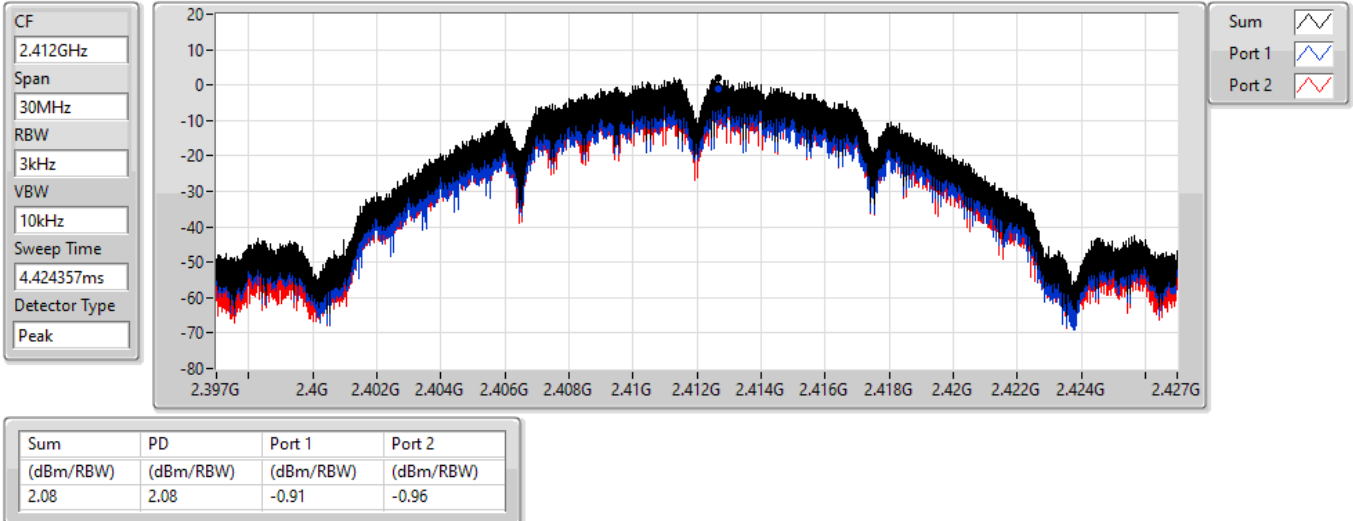
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

08/08/2022

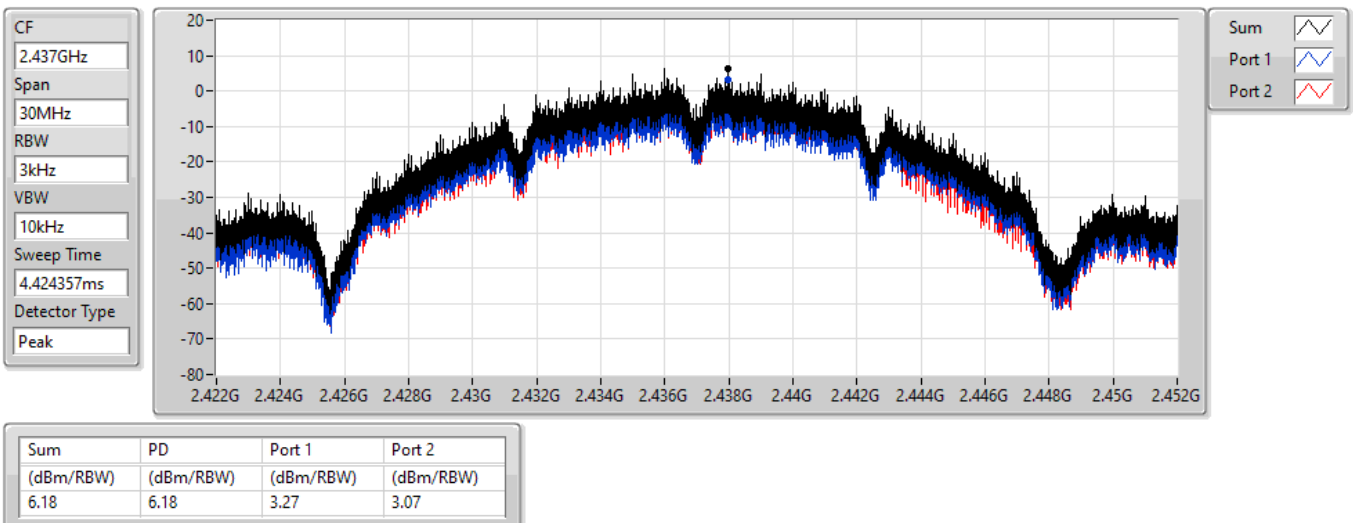


802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

08/08/2022

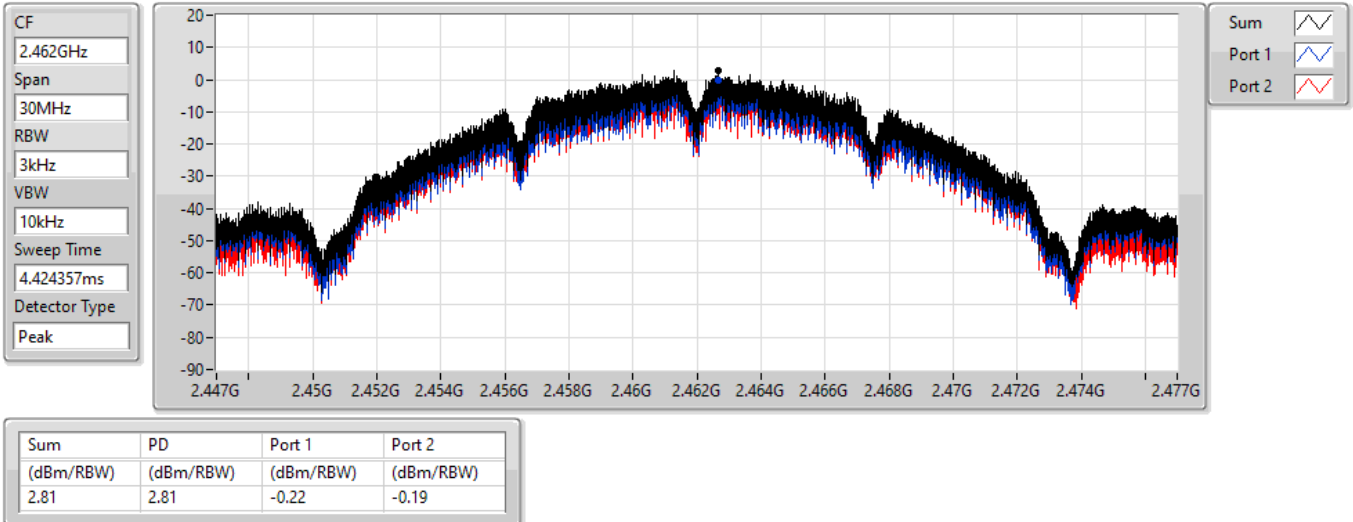


802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

08/08/2022

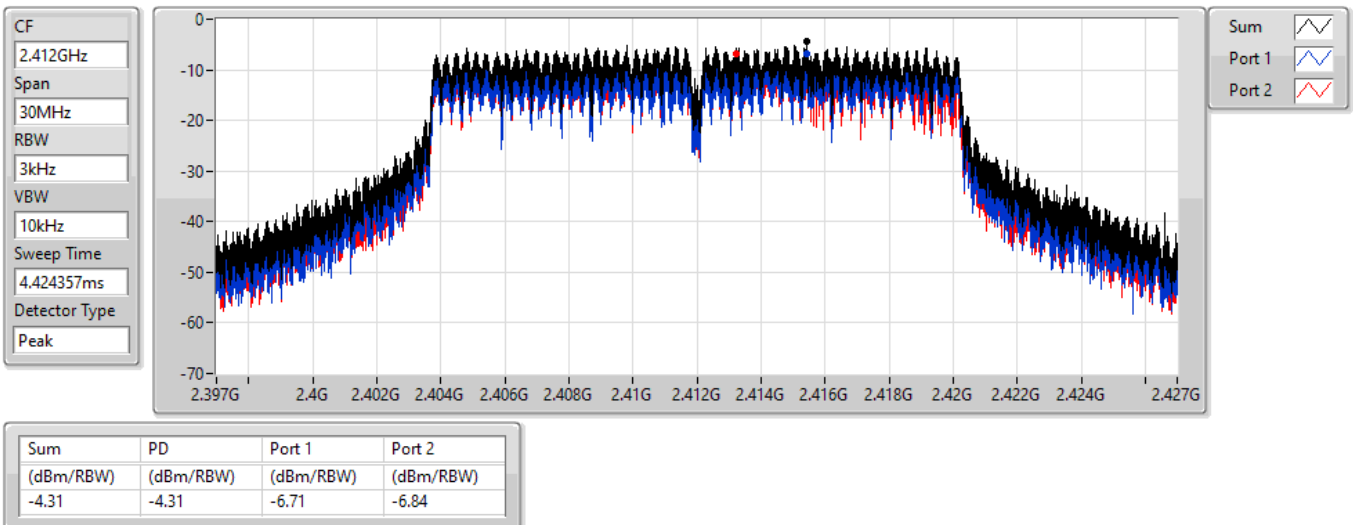


802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

08/08/2022

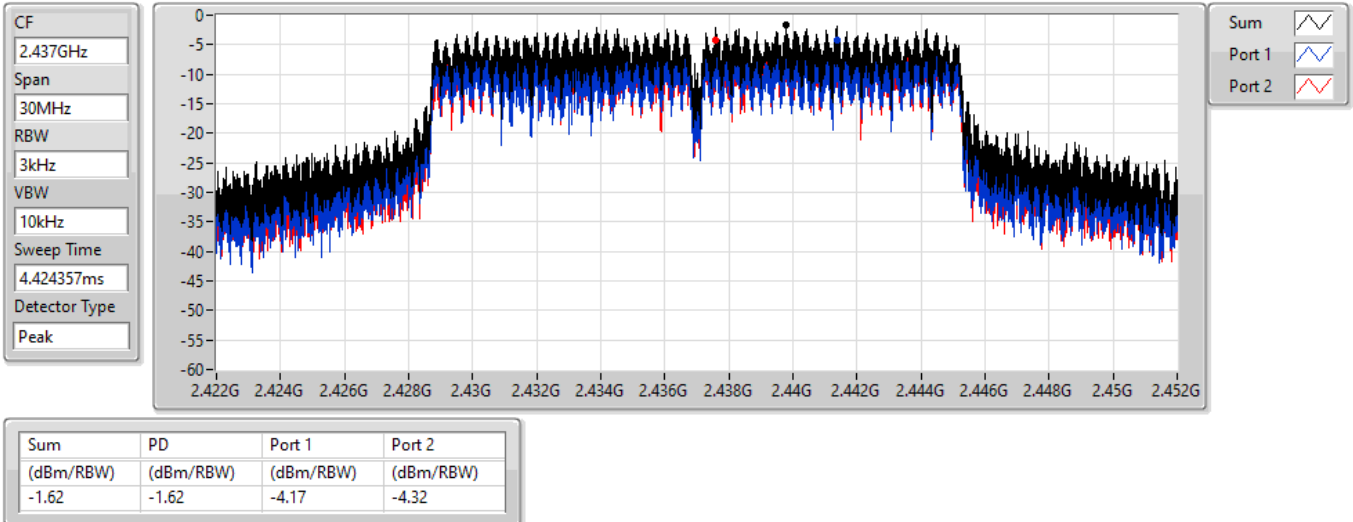


802.11g_Nss1,(6Mbps)_2TX

2437MHz

PSD

08/08/2022

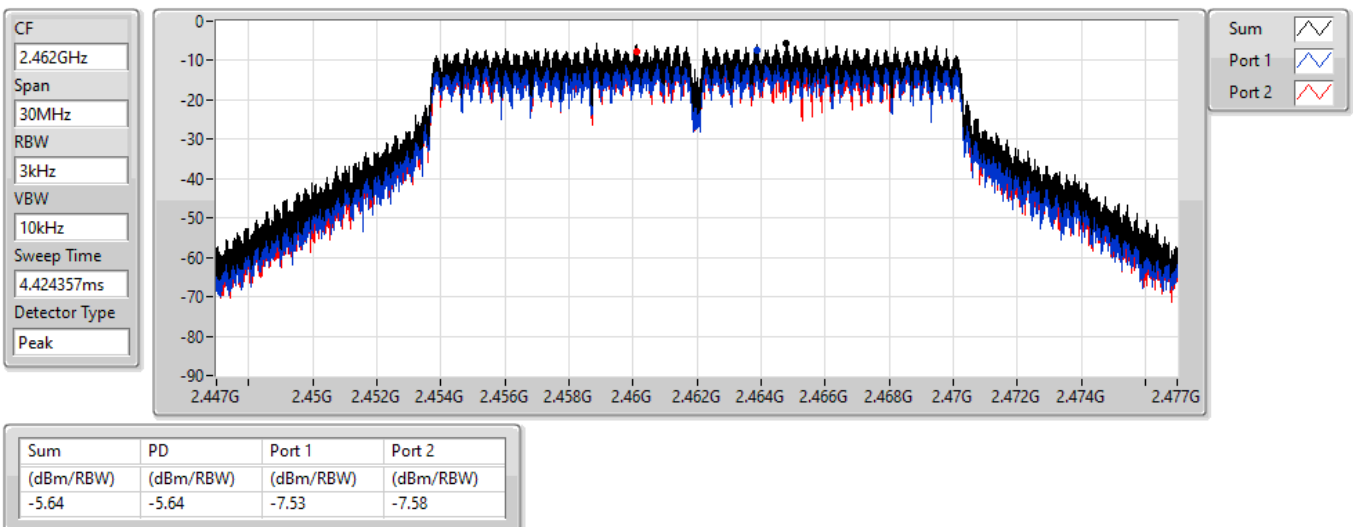


802.11g_Nss1,(6Mbps)_2TX

2462MHz

PSD

08/08/2022

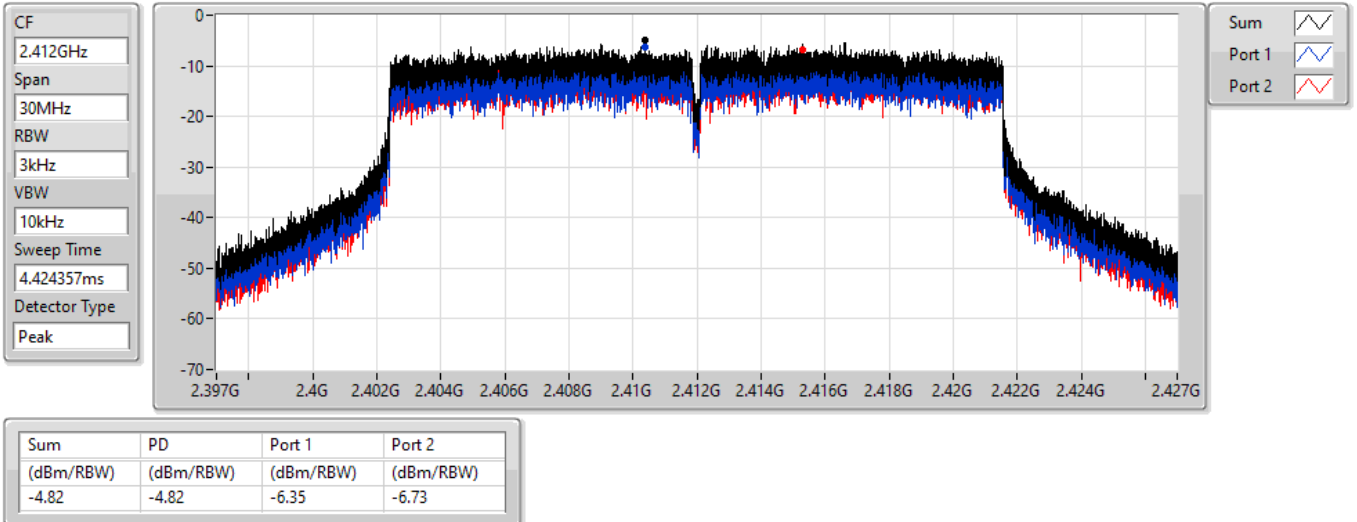


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

08/08/2022

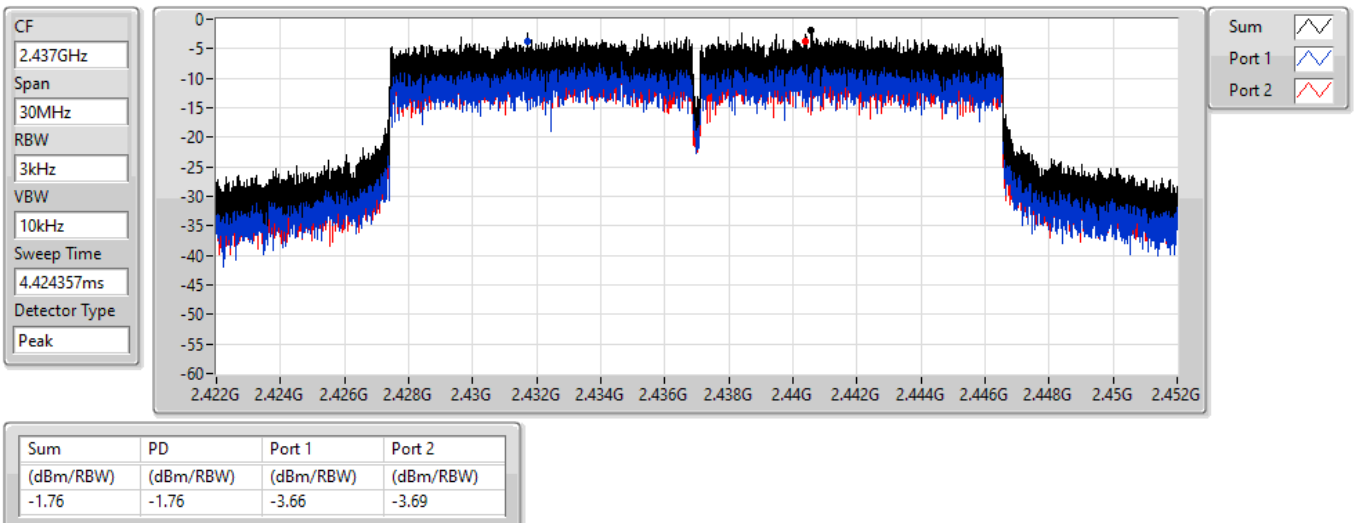


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

08/08/2022

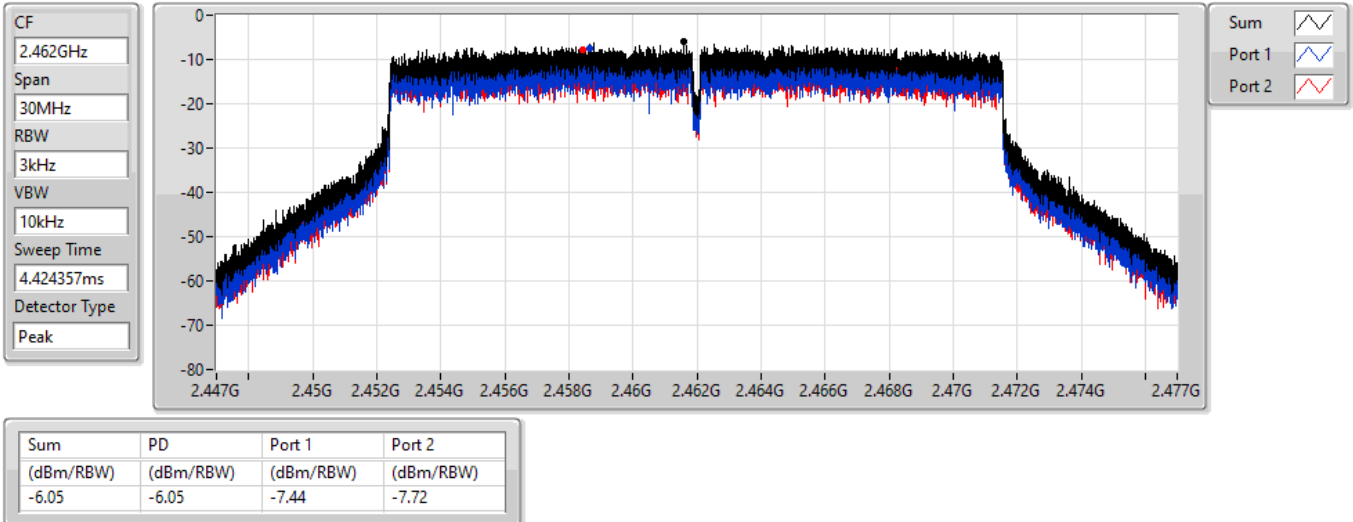


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

08/08/2022

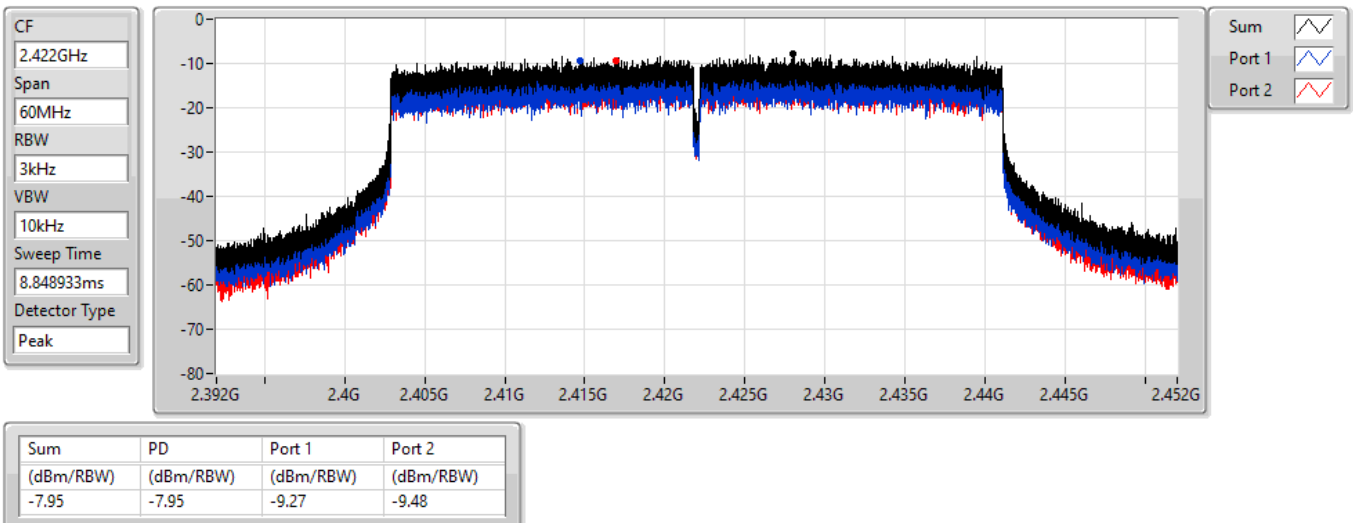


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2422MHz

08/08/2022

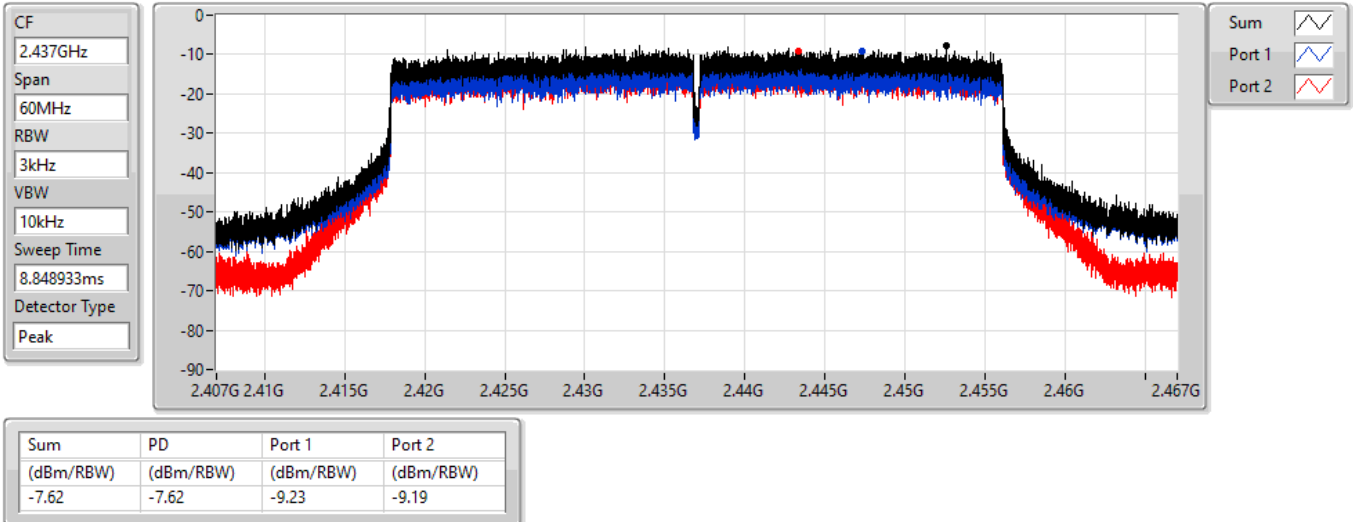


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2437MHz

08/08/2022

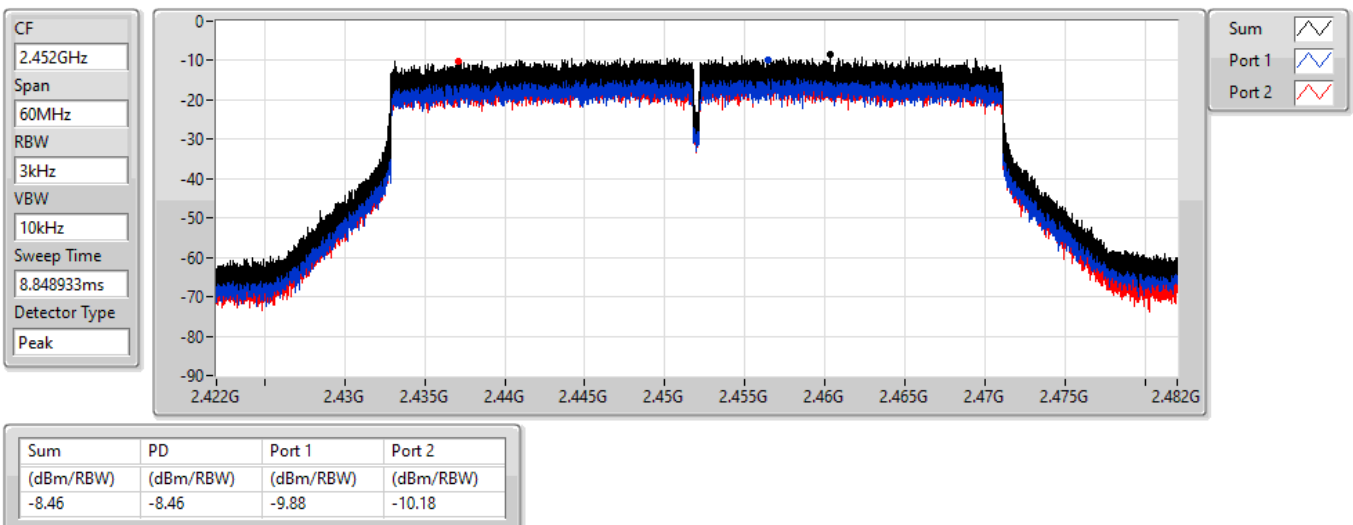


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2452MHz

08/08/2022



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43799G	16.25	-13.75	814.63M	-51.14	2.39802G	-29.34	2.4G	-37.16	2.50522G	-49.34	7.23514G	-31.44	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43198G	13.46	-16.54	2.09496G	-52.29	2.39986G	-23.40	2.4G	-24.33	2.50056G	-49.31	7.24076G	-37.17	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.442G	13.38	-16.62	1.78362G	-51.98	2.39928G	-23.88	2.4G	-23.18	2.50766G	-48.72	7.23233G	-39.59	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.44075G	6.03	-23.97	933.69M	-51.72	2.39984G	-28.01	2.4G	-28.11	2.48686G	-46.98	7.24712G	-43.14	2

Result

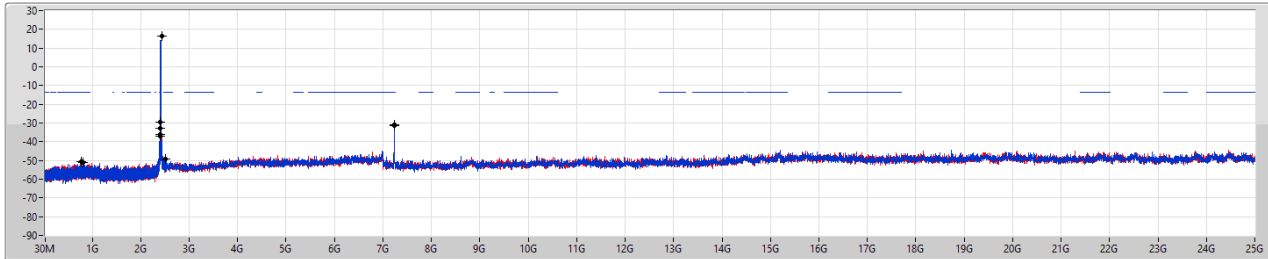
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43799G	16.25	-13.75	814.63M	-51.14	2.39802G	-29.34	2.4G	-37.16	2.50522G	-49.34	7.23514G	-31.44	1
2412MHz	Pass	2.43799G	16.25	-13.75	768.61M	-50.83	2.398G	-33.01	2.4G	-36.08	2.51284G	-49.06	7.23795G	-30.95	2
2437MHz	Pass	2.43799G	16.25	-13.75	894.72M	-51.39	2.398G	-45.82	2.4G	-50.15	2.4845G	-47.86	15.17496G	-44.99	1
2437MHz	Pass	2.43799G	16.25	-13.75	951.22M	-51.95	2.39798G	-46.31	2.4835G	-51.31	2.49696G	-48.82	15.17777G	-42.93	2
2462MHz	Pass	2.43799G	16.25	-13.75	753.76M	-51.05	2.39994G	-50.34	2.4835G	-44.04	2.4835G	-44.37	15.19744G	-44.94	1
2462MHz	Pass	2.43799G	16.25	-13.75	747.93M	-51.23	2.39998G	-50.50	2.4835G	-45.02	2.48352G	-45.70	15.18339G	-44.47	2
802.11g_Nss1(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43198G	13.46	-16.54	2.09496G	-52.29	2.39986G	-23.40	2.4G	-24.33	2.50056G	-49.31	7.24076G	-37.17	1
2412MHz	Pass	2.43198G	13.46	-16.54	764.82M	-51.58	2.39986G	-24.16	2.4G	-24.74	2.48462G	-48.53	7.24076G	-37.45	2
2437MHz	Pass	2.43198G	13.46	-16.54	745.89M	-51.03	2.39946G	-40.43	2.4G	-41.58	2.48602G	-44.79	24.85109G	-44.44	1
2437MHz	Pass	2.43198G	13.46	-16.54	738.03M	-51.92	2.39986G	-38.91	2.4G	-39.95	2.48474G	-46.06	16.35217G	-45.26	2
2462MHz	Pass	2.43198G	13.46	-16.54	895.01M	-51.55	2.39924G	-49.80	2.4835G	-47.55	2.48426G	-45.77	15.17496G	-44.18	1
2462MHz	Pass	2.43198G	13.46	-16.54	952.39M	-51.44	2.39402G	-50.44	2.4835G	-47.64	2.48728G	-45.28	24.48585G	-44.96	2
802.11ax HEW20_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	13.38	-16.62	1.78362G	-51.98	2.39928G	-23.88	2.4G	-23.18	2.50766G	-48.72	7.23233G	-39.59	1
2412MHz	Pass	2.442G	13.38	-16.62	842.01M	-50.74	2.39984G	-23.98	2.4G	-23.96	2.48878G	-48.61	7.23514G	-39.82	2
2437MHz	Pass	2.442G	13.38	-16.62	787.54M	-51.31	2.3997G	-39.96	2.4G	-41.14	2.48456G	-44.38	15.19744G	-43.99	1
2437MHz	Pass	2.442G	13.38	-16.62	385.03M	-51.45	2.4G	-37.43	2.4G	-39.95	2.48458G	-44.19	24.42685G	-44.74	2
2462MHz	Pass	2.442G	13.38	-16.62	919.77M	-50.96	2.4G	-50.10	2.4835G	-48.75	2.48536G	-45.03	24.51114G	-44.81	1
2462MHz	Pass	2.442G	13.38	-16.62	871.42M	-51.81	2.39862G	-50.81	2.4835G	-49.42	2.48684G	-45.96	15.19744G	-44.67	2
802.11ax HEW40_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44075G	6.03	-23.97	640.29M	-52.55	2.39928G	-28.71	2.4G	-28.36	2.49066G	-46.11	7.24992G	-42.86	1
2422MHz	Pass	2.44075G	6.03	-23.97	933.69M	-51.72	2.39984G	-28.01	2.4G	-28.11	2.48686G	-46.98	7.24712G	-43.14	2
2437MHz	Pass	2.44075G	6.03	-23.97	830.07M	-50.98	2.39956G	-35.40	2.4G	-38.90	2.48426G	-41.82	24.53164G	-44.27	1
2437MHz	Pass	2.44075G	6.03	-23.97	953.73M	-52.01	2.39752G	-46.13	2.4G	-45.77	2.48434G	-45.76	15.19525G	-44.00	2
2452MHz	Pass	2.44075G	6.03	-23.97	952.58M	-51.54	2.39008G	-47.63	2.4835G	-46.16	2.49578G	-44.56	24.13059G	-44.96	1
2452MHz	Pass	2.44075G	6.03	-23.97	854.97M	-51.56	2.39876G	-50.22	2.4835G	-49.08	2.48822G	-44.10	15.19244G	-45.29	2

802.11b_Nss1,(1Mbps)_2TX

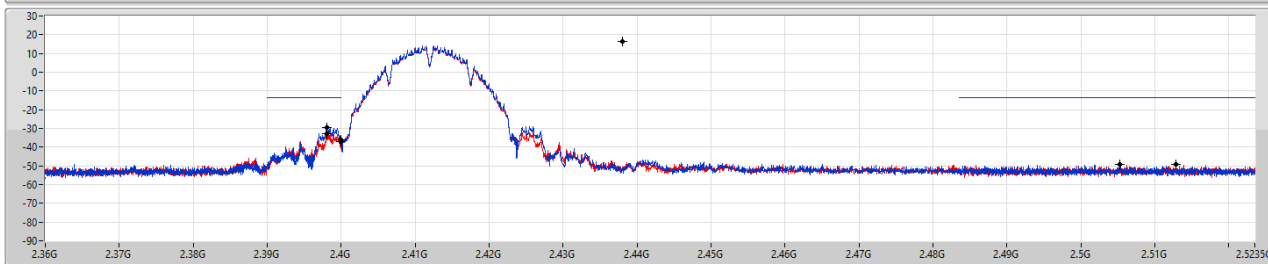
2412MHz

CSENdB

08/08/2022



Port 1
Port 2



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

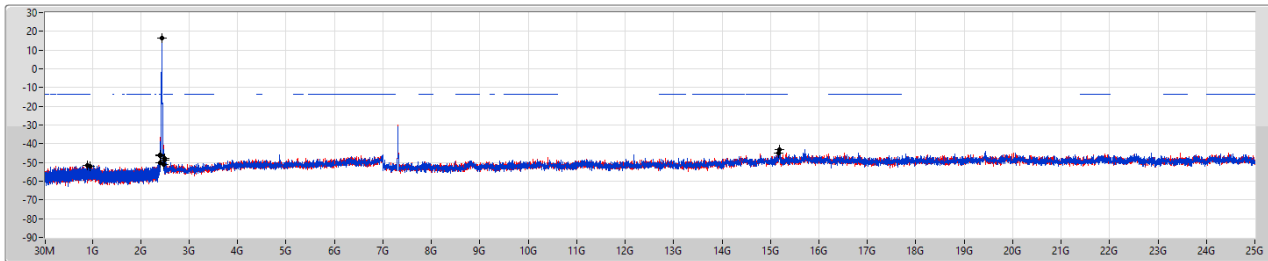
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43799G	16.25	-13.75	814.63M	-51.14	2.39802G	-29.34	2.4G	-37.16	2.50522G	-49.34	7.23514G	-31.44	1
2.43799G	16.25	-13.75	768.61M	-50.83	2.398G	-33.01	2.4G	-36.08	2.51284G	-49.06	7.23795G	-30.95	2

802.11b_Nss1,(1Mbps)_2TX

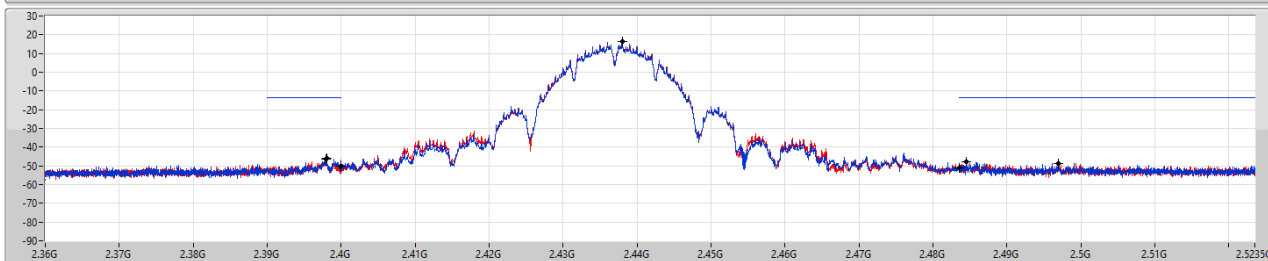
2437MHz

CSENdB

08/08/2022



Port 1
Port 2



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

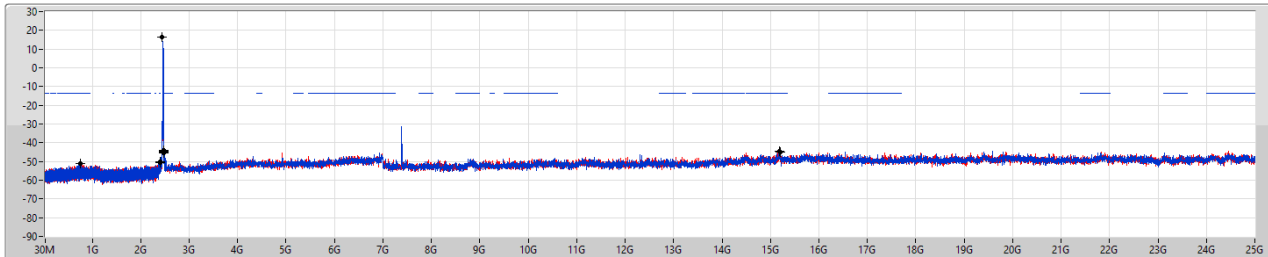
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43799G	16.25	-13.75	894.72M	-51.39	2.398G	-45.82	2.4G	-50.15	2.4845G	-47.86	15.17496G	-44.99	1
2.43799G	16.25	-13.75	951.22M	-51.95	2.39798G	-46.31	2.4835G	-51.31	2.49696G	-48.82	15.17777G	-42.93	2

802.11b_Nss1,(1Mbps)_2TX

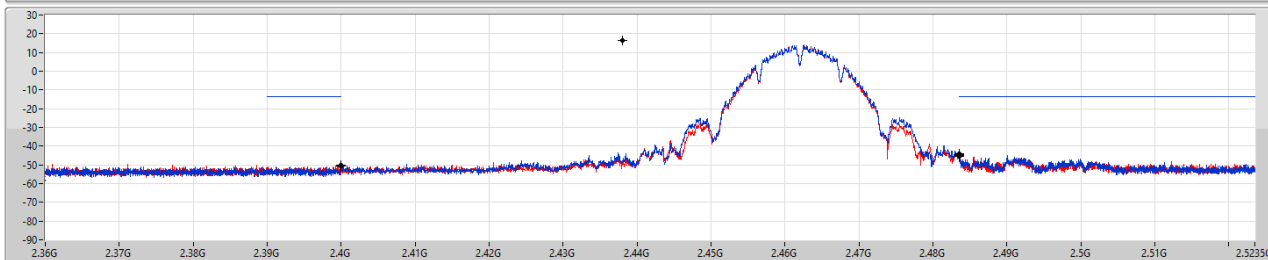
2462MHz

CSEndB

08/08/2022



Port 1
Port 2



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

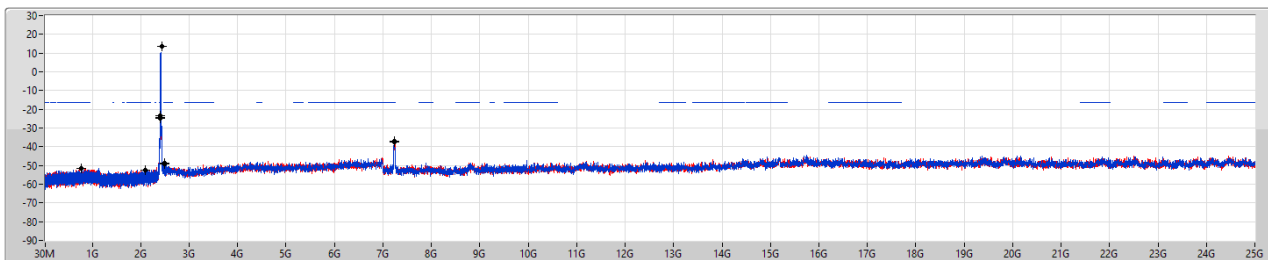
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43799G	16.25	-13.75	753.79M	-51.05	2.39994G	-50.34	2.4835G	-44.04	2.4835G	-44.37	15.19744G	-44.94	1
2.43799G	16.25	-13.75	747.93M	-51.23	2.39998G	-50.50	2.4835G	-45.02	2.48352G	-45.70	15.18339G	-44.47	2

802.11g_Nss1,(6Mbps)_2TX

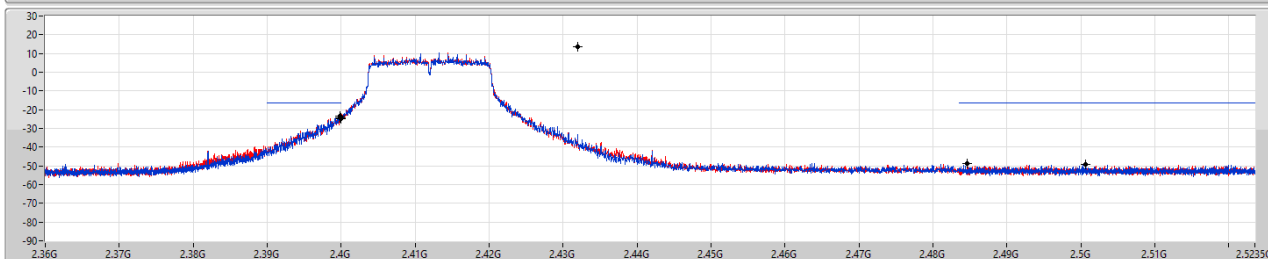
2412MHz

CSEndB

08/08/2022



Port 1
Port 2



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

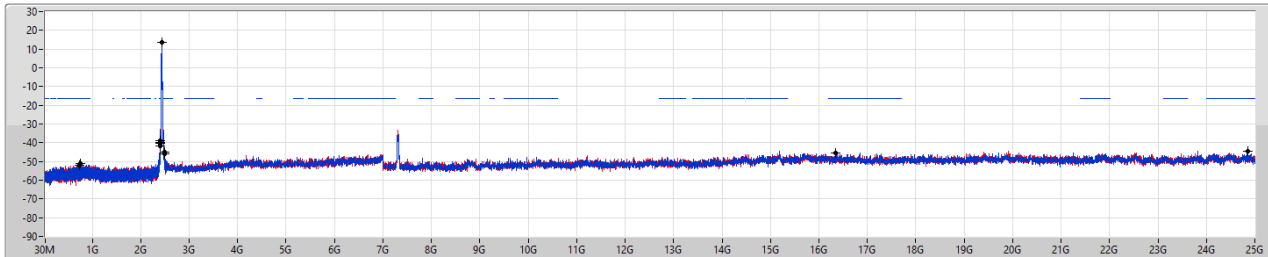
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	13.46	-16.54	2.09496G	-52.29	2.39986G	-23.40	2.4G	-24.33	2.50056G	-49.31	7.24076G	-37.17	1
2.43198G	13.46	-16.54	764.82M	-51.58	2.39986G	-24.16	2.4G	-24.74	2.48462G	-48.53	7.24076G	-37.45	2

802.11g_Nss1,(6Mbps)_2TX

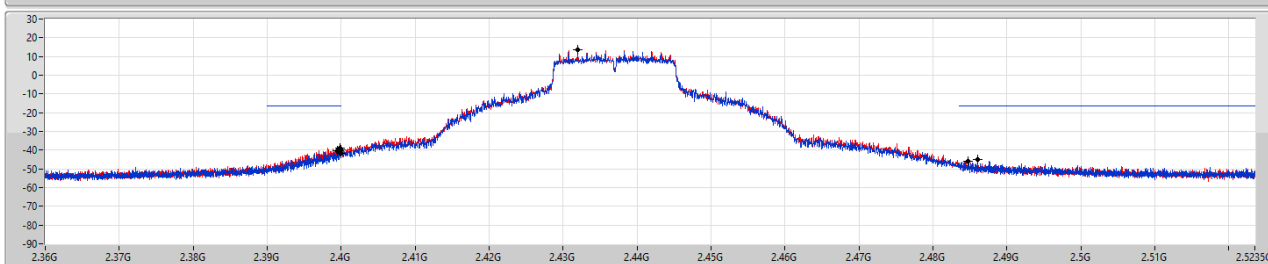
2437MHz

CSEndB

08/08/2022



Port 1
Port 2



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

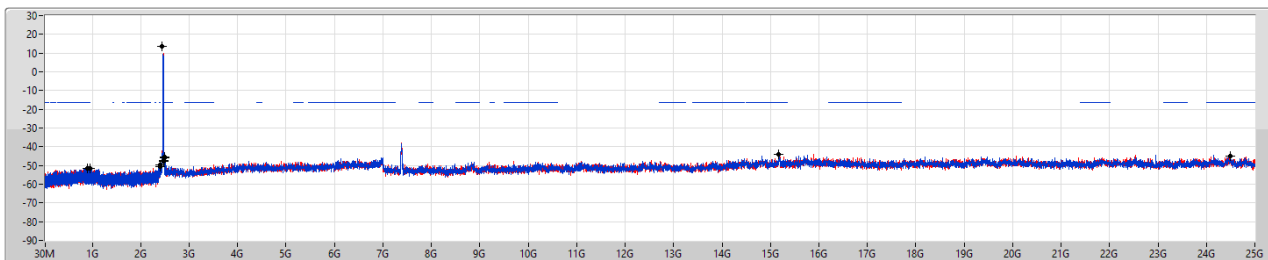
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	13.46	-16.54	745.89M	-51.03	2.39946G	-40.43	2.4G	-41.58	2.48602G	-44.79	2.485109G	-44.44	1
2.43198G	13.46	-16.54	738.03M	-51.92	2.39986G	-38.91	2.4G	-39.95	2.48474G	-46.06	16.35217G	-45.26	2

802.11g_Nss1,(6Mbps)_2TX

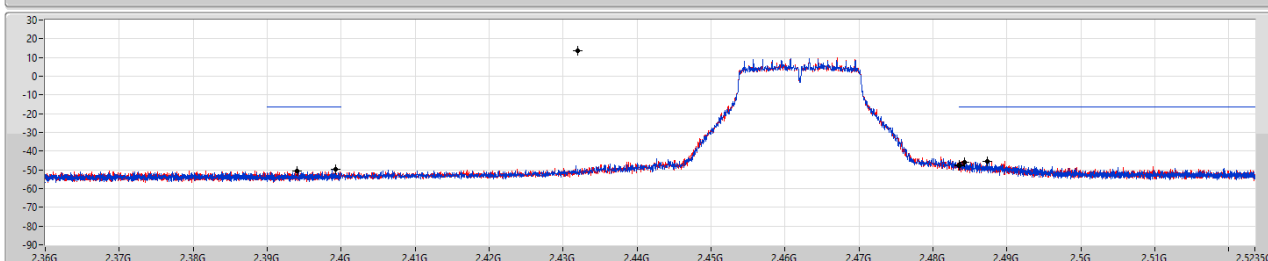
2462MHz

CSEndB

08/08/2022



Port 1
Port 2



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

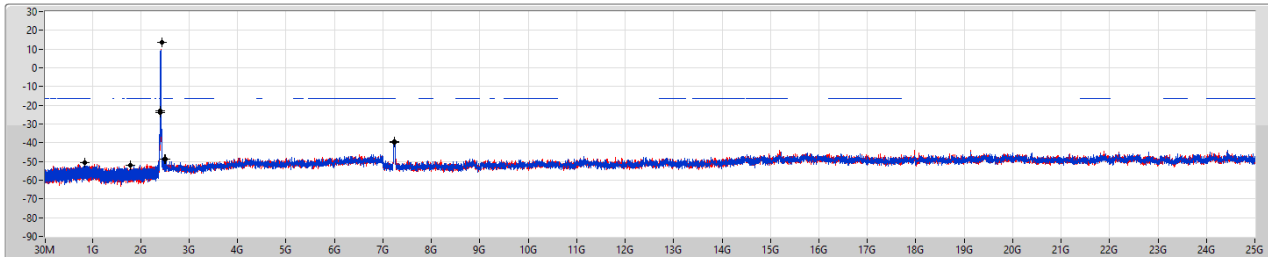
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	13.46	-16.54	895.01M	-51.55	2.39924G	-49.80	2.4835G	-47.55	2.48426G	-45.77	15.17496G	-44.18	1
2.43198G	13.46	-16.54	932.39M	-51.44	2.39402G	-50.44	2.4835G	-47.64	2.48728G	-45.28	24.48585G	-44.96	2

802.11ax HEW20_Nss1,(MCS0)_2TX

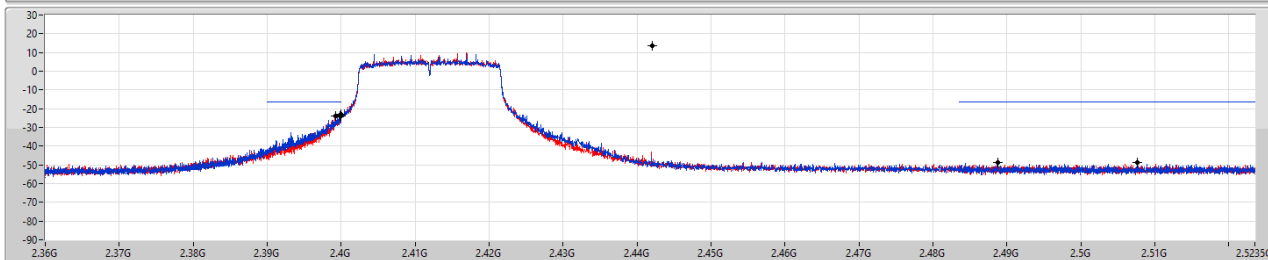
2412MHz

CSENdB

08/08/2022



Port 1
Port 2



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

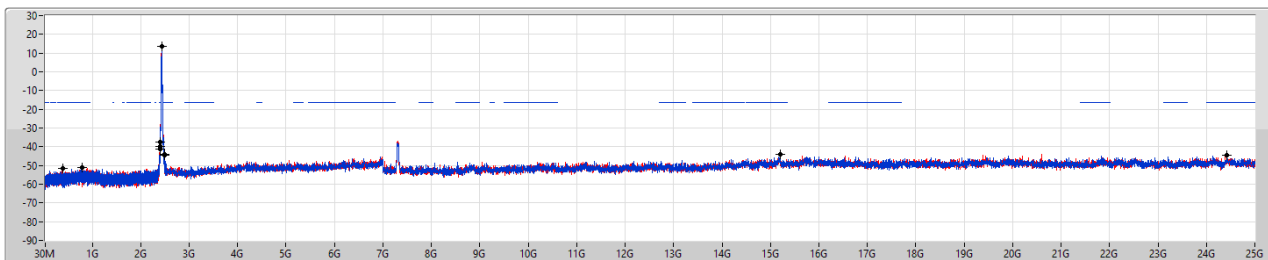
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	13.38	-16.62	1.78362G	-51.98	2.39928G	-23.88	2.4G	-23.18	2.50766G	-48.72	7.23233G	-39.59	1
2.442G	13.38	-16.62	842.01M	-50.74	2.39984G	-23.98	2.4G	-23.96	2.48878G	-48.61	7.23514G	-39.82	2

802.11ax HEW20_Nss1,(MCS0)_2TX

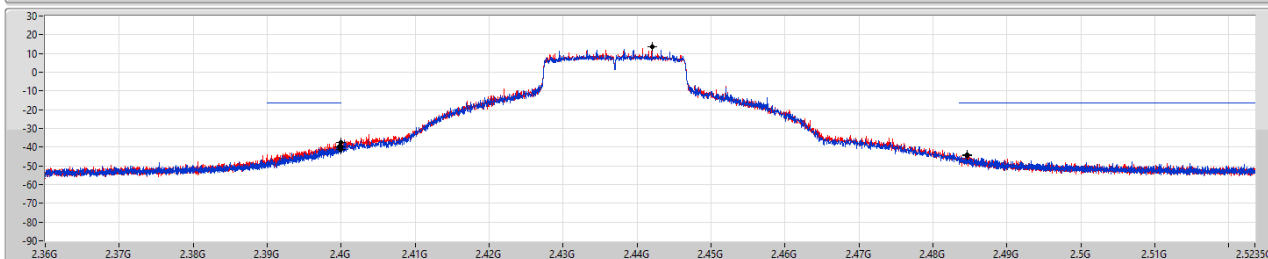
2437MHz

CSENdB

08/08/2022



Port 1
Port 2



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

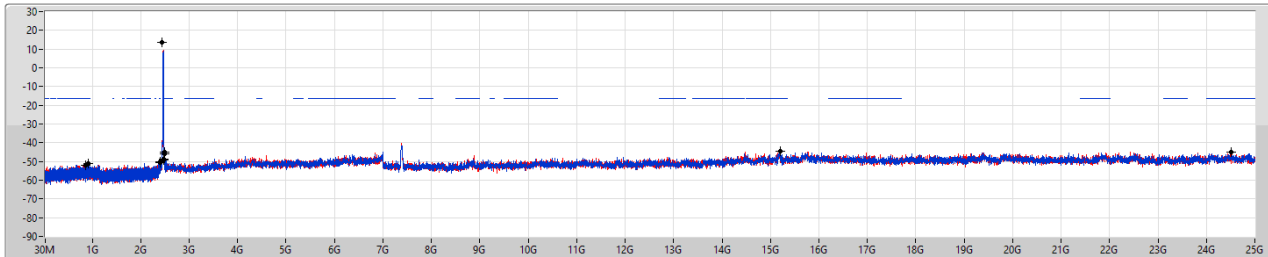
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	13.38	-16.62	787.54M	-51.31	2.3997G	-39.96	2.4G	-41.14	2.48456G	-44.38	15.1974G	-43.99	1
2.442G	13.38	-16.62	385.03M	-51.45	2.4G	-37.43	2.4G	-39.95	2.48458G	-44.19	24.42685G	-44.74	2

802.11ax HEW20_Nss1,(MCS0)_2TX

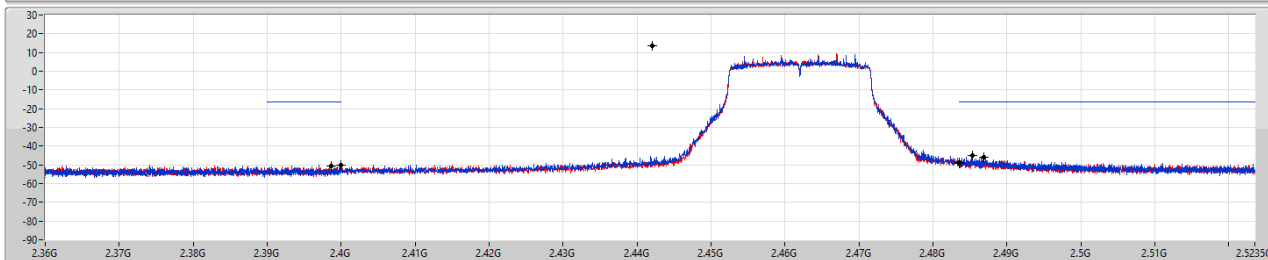
2462MHz

CSEndB

08/08/2022



Port 1
Port 2



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

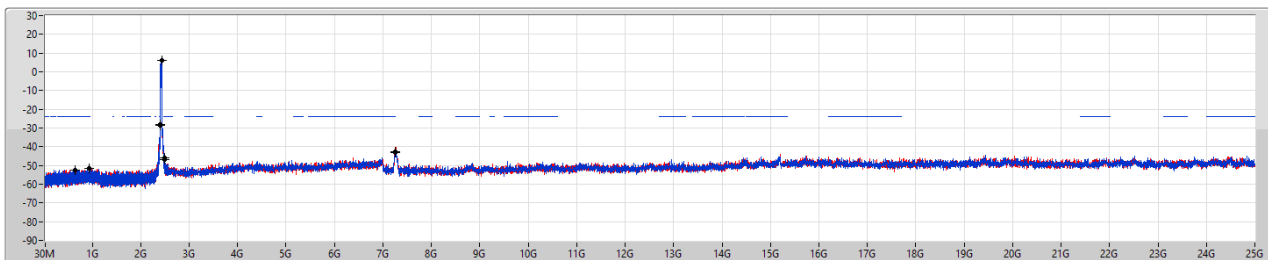
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	13.38	-16.62	919.77M	-50.96	2.4G	-50.10	2.4835G	-48.75	2.48536G	-45.03	24.51114G	-44.81	1
2.442G	13.38	-16.62	871.42M	-51.81	2.39862G	-50.81	2.4835G	-49.42	2.48684G	-45.96	15.19744G	-44.67	2

802.11ax HEW40_Nss1,(MCS0)_2TX

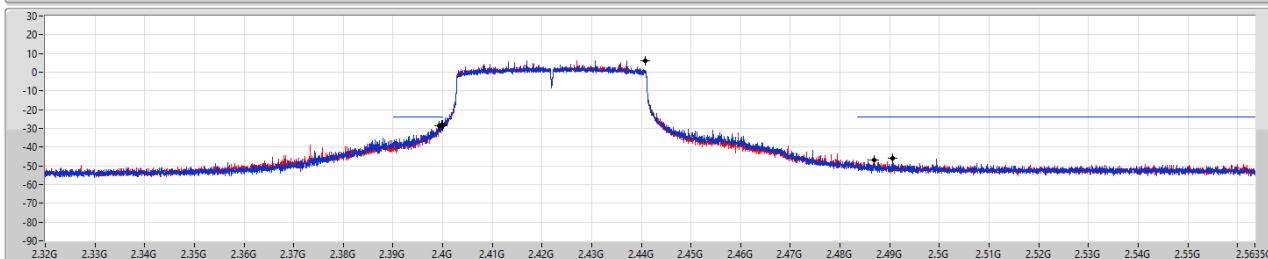
2422MHz

CSEndB

08/08/2022



Port 1
Port 2



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

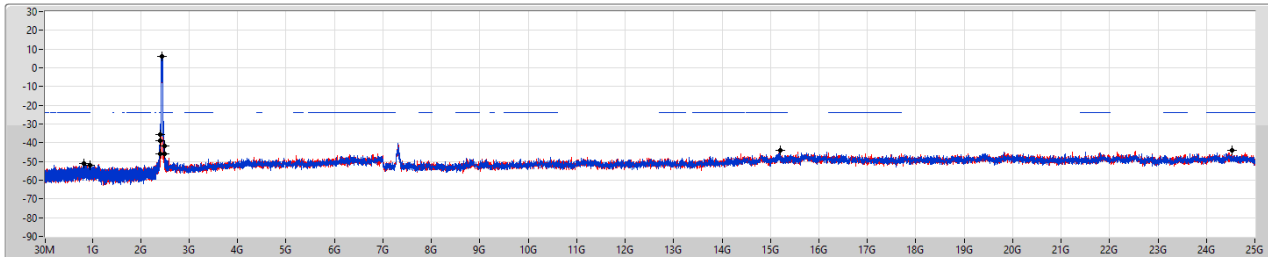
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	6.03	-23.97	640.29M	-52.55	2.39928G	-28.71	2.4G	-28.36	2.49066G	-46.11	7.24992G	-42.86	1
2.44075G	6.03	-23.97	933.69M	-51.72	2.39984G	-28.01	2.4G	-28.11	2.48686G	-46.98	7.24712G	-43.14	2

802.11ax HEW40_Nss1,(MCS0)_2TX

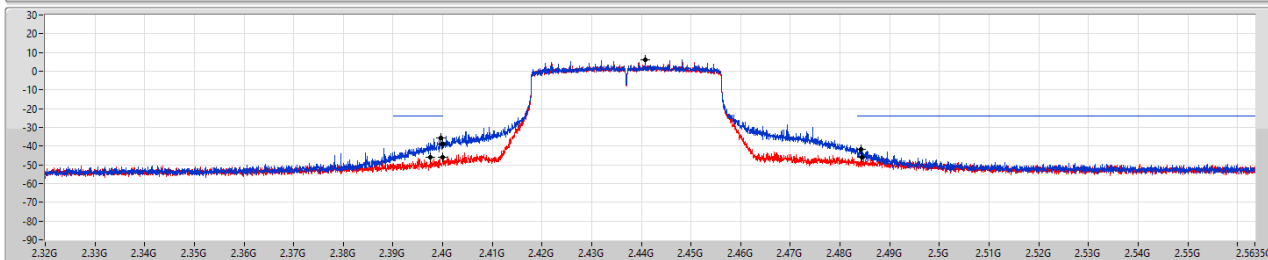
CSENdB

2437MHz

08/08/2022



Port 1
Port 2



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

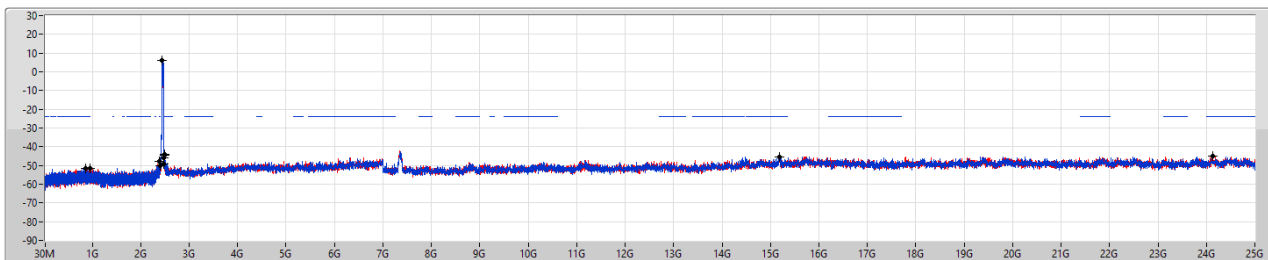
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	6.03	-23.97	830.07M	-50.98	2.39956G	-35.40	2.4G	-38.90	2.48426G	-41.82	24.53164G	-44.27	1
2.44075G	6.03	-23.97	933.73M	-52.01	2.39752G	-46.13	2.4G	-45.77	2.48434G	-45.76	15.19525G	-44.00	2

802.11ax HEW40_Nss1,(MCS0)_2TX

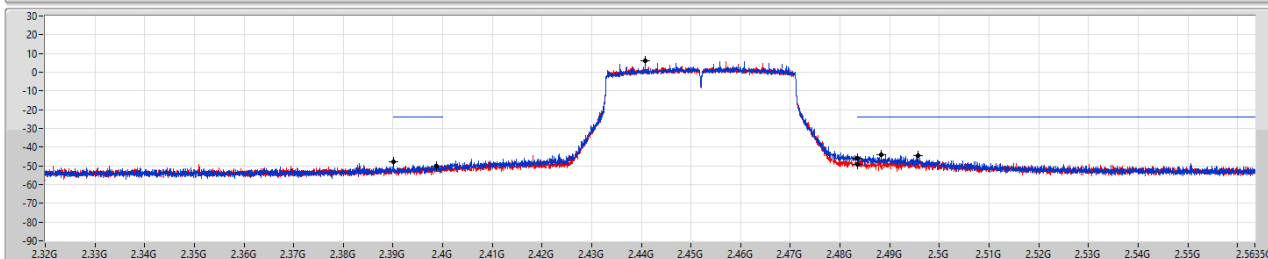
CSENdB

2452MHz

08/08/2022



Port 1
Port 2



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	6.03	-23.97	952.58M	-51.54	2.39008G	-47.63	2.4835G	-46.16	2.49578G	-44.56	24.13059G	-44.96	1
2.44075G	6.03	-23.97	854.97M	-51.56	2.39876G	-50.22	2.4835G	-49.08	2.48822G	-44.10	15.19244G	-45.29	2



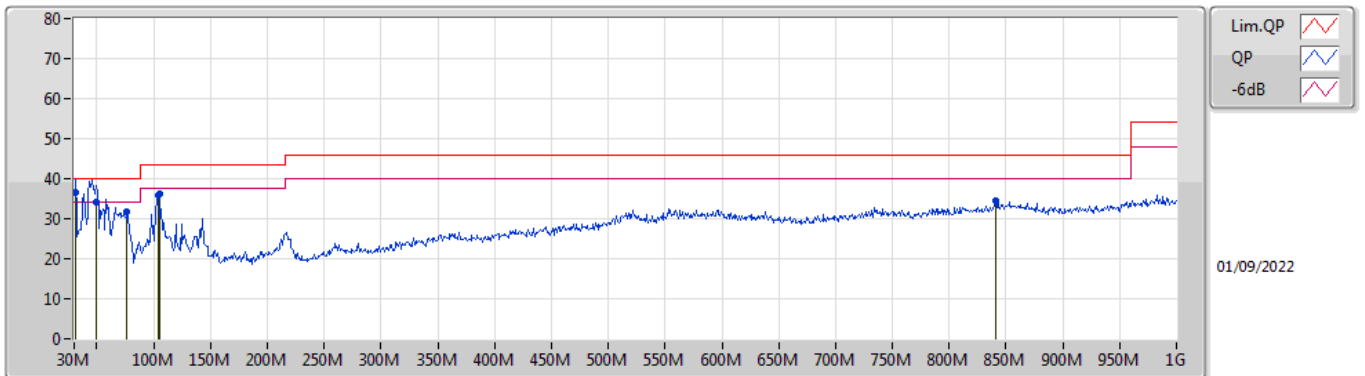
Radiated Emissions below 1GHz

Appendix F.1

Summary

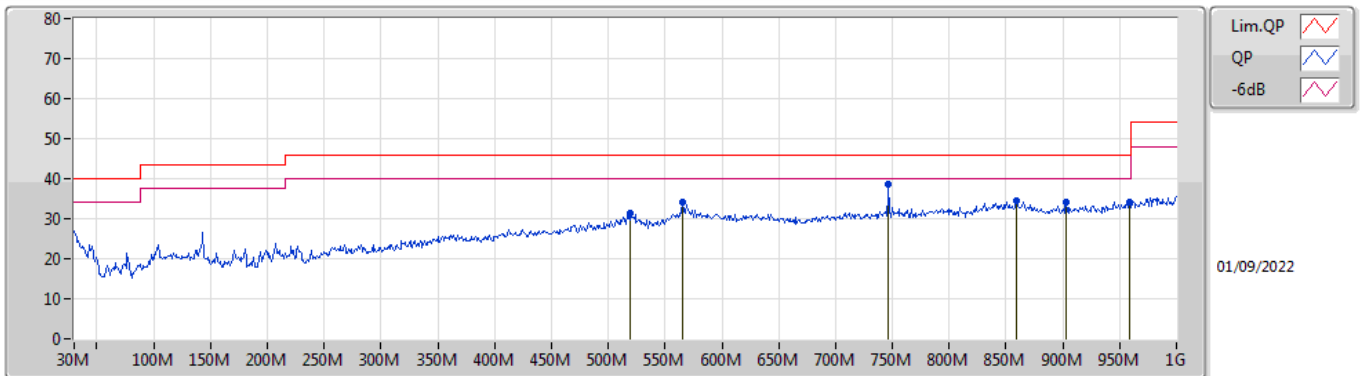
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	QP	30.97M	36.57	40.00	-3.43	Vertical

Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	30.97M	36.57	40.00	-3.43	-7.41	3	Vertical	6	1.00	"Worst"	43.98	24.02	1.00	32.43
QP	49.4M	34.17	40.00	-5.83	-16.56	3	Vertical	222	1.25	-	50.73	14.73	1.20	32.49
PK	76.56M	31.87	40.00	-8.13	-18.23	3	Vertical	158	2.00	-	50.10	12.64	1.53	32.40
PK	103.72M	35.85	43.50	-7.65	-13.36	3	Vertical	225	1.00	-	49.21	17.15	1.84	32.35
PK	104.69M	36.26	43.50	-7.24	-13.28	3	Vertical	225	1.00	-	49.54	17.22	1.85	32.35
PK	840.92M	34.36	46.00	-11.64	0.08	3	Vertical	181	1.00	-	34.28	26.09	5.66	31.67

Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	518.88M	31.37	46.00	-14.63	-4.54	3	Horizontal	79	2.00	-	35.91	23.32	4.38	32.24
PK	565.44M	34.05	46.00	-11.95	-3.09	3	Horizontal	63	2.00	-	37.14	24.59	4.56	32.24
PK	746.83M	38.77	46.00	-7.23	-1.09	3	Horizontal	317	2.00	"Worst"	39.86	25.61	5.29	31.99
PK	859.35M	34.49	46.00	-11.51	0.41	3	Horizontal	360	1.50	-	34.08	26.24	5.74	31.57
PK	903M	34.14	46.00	-11.86	0.88	3	Horizontal	300	2.00	-	33.26	26.47	5.91	31.50
PK	958.29M	34.19	46.00	-11.81	1.93	3	Horizontal	26	1.50	-	32.26	26.78	6.13	30.98

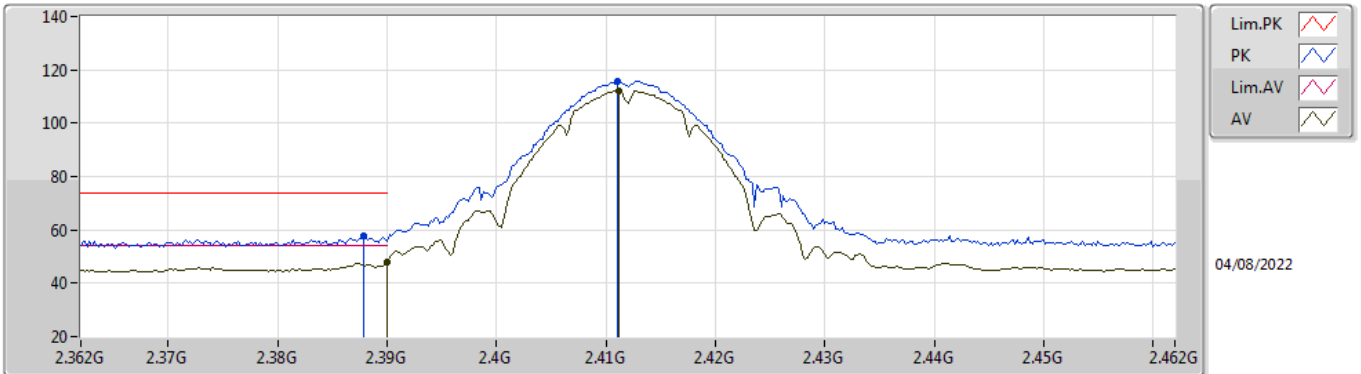


Summary

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)_2TX	Pass	AV	2.487G	53.78	54.00	-0.22	3	Horizontal	291	2.02	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

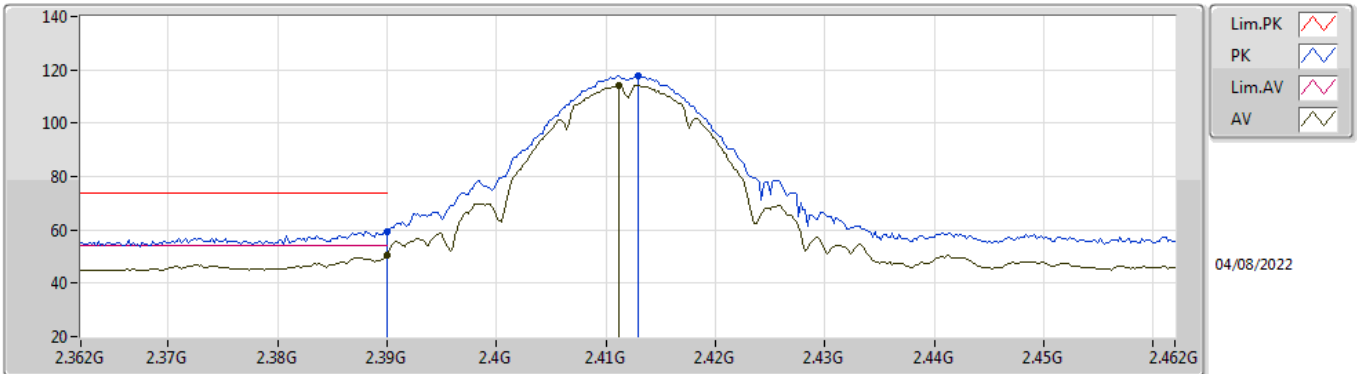


EUT Y_2TX
Setting 23
02-F-G-4

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	57.88	74.00	-16.12	26.71	3	Vertical	350	1.88	-	28.38	2.79	-
AV	2.39G	47.74	54.00	-6.26	16.57	3	Vertical	350	1.88	-	28.38	2.79	-
PK	2.411G	115.86	Inf	-Inf	84.65	3	Vertical	350	1.88	-	28.40	2.81	-
AV	2.4112G	112.30	Inf	-Inf	81.09	3	Vertical	350	1.88	-	28.40	2.81	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

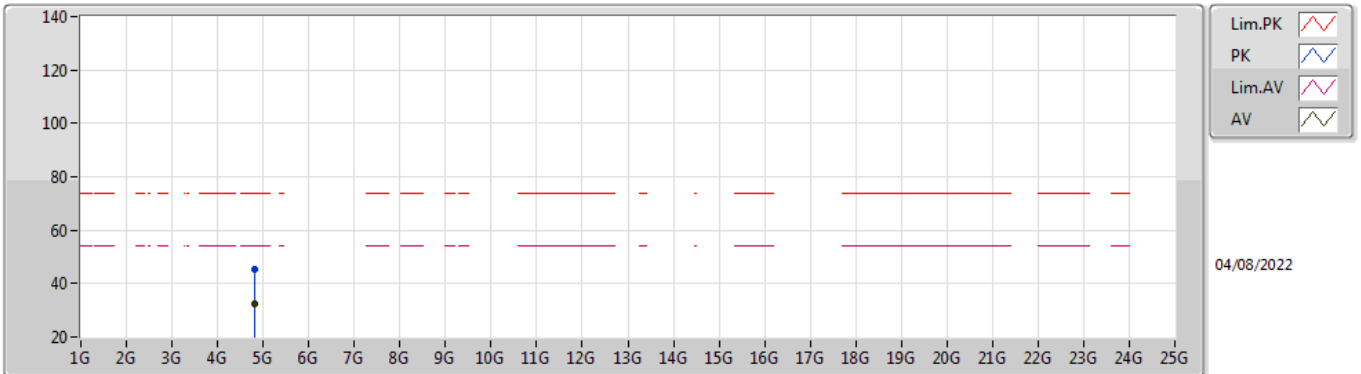


EUT_V_2TX
Setting 23
02-F-G-4

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	59.29	74.00	-14.71	28.12	3	Horizontal	298	1.93	-	28.38	2.79	-	
AV	2.39G	50.55	54.00	-3.45	19.38	3	Horizontal	298	1.93	-	28.38	2.79	-	
PK	2.413G	117.90	Inf	-Inf	86.69	3	Horizontal	298	1.93	-	28.40	2.81	-	
AV	2.4112G	114.32	Inf	-Inf	83.11	3	Horizontal	298	1.93	-	28.40	2.81	-	

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

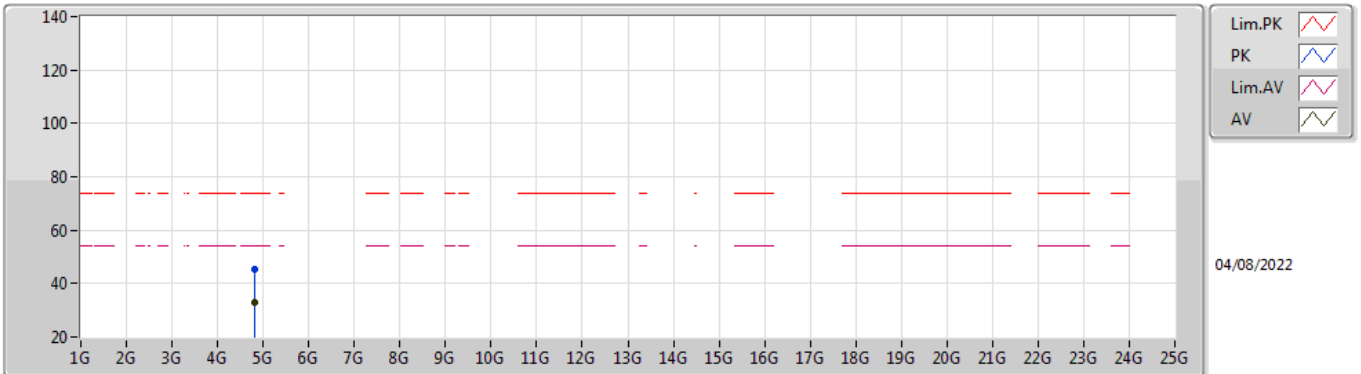


EUT Y_2TX
Setting 23
02-F-K-3

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	4.82445G	45.18	74.00	-28.82	37.93	3	Vertical	283	2.32	-	32.95	5.10	30.80
AV	4.82318G	32.60	54.00	-21.40	25.36	3	Vertical	283	2.32	-	32.94	5.10	30.80

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

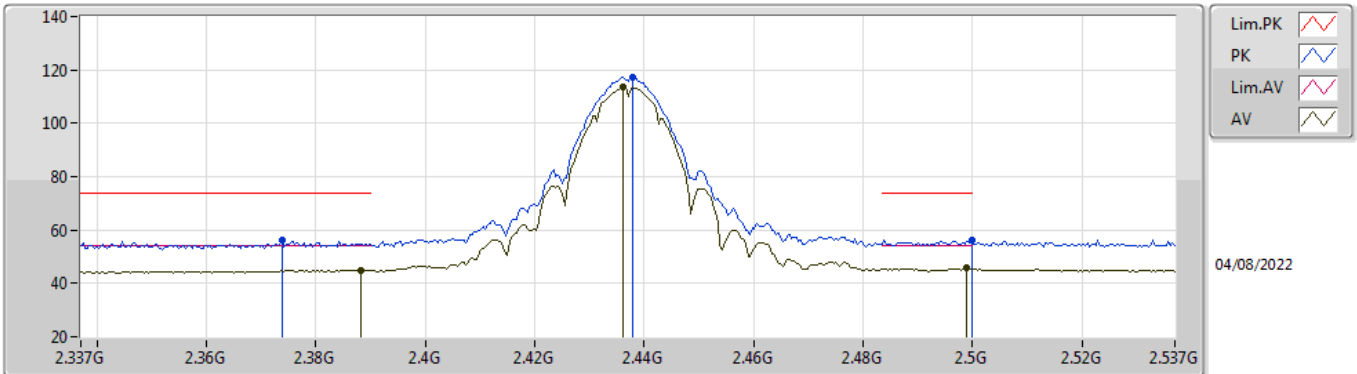


EUT Y_2TX
Setting 23
02-F-K-3

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	4.82451G	45.49	74.00	-28.51	38.24	3	Horizontal	299	1.73	-	32.95	5.10	30.80
AV	4.82382G	33.04	54.00	-20.96	25.80	3	Horizontal	299	1.73	-	32.94	5.10	30.80

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

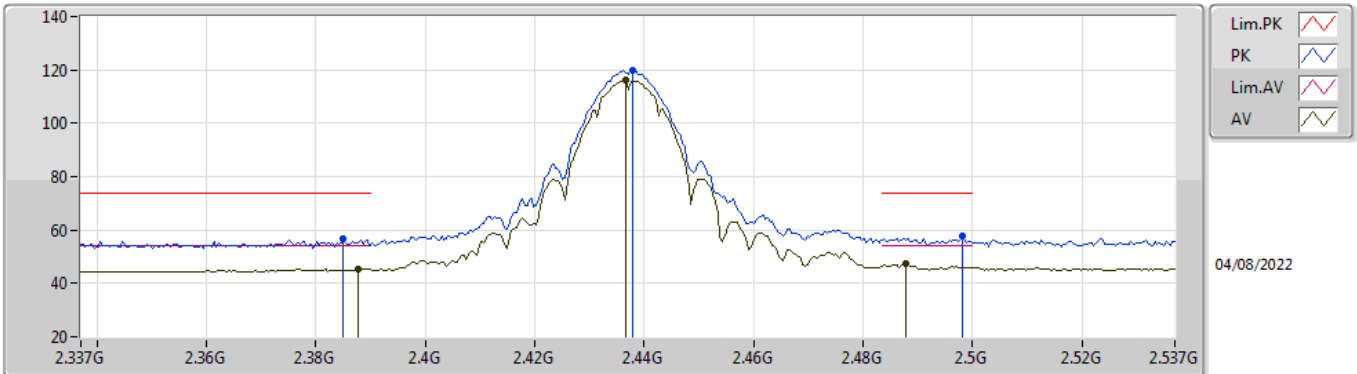


EUT_Y_2TX
Setting 25
02-F-G-4

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	2.3738G	56.02	74.00	-17.98	24.88	3	Vertical	36	2.21	-	28.35	2.79	-
AV	2.3882G	45.06	54.00	-8.94	13.89	3	Vertical	36	2.21	-	28.38	2.79	-
PK	2.4378G	117.29	Inf	-Inf	86.05	3	Vertical	36	2.21	-	28.40	2.84	-
AV	2.4362G	113.64	Inf	-Inf	82.40	3	Vertical	36	2.21	-	28.40	2.84	-
PK	2.4998G	56.08	74.00	-17.92	24.58	3	Vertical	36	2.21	-	28.60	2.90	-
AV	2.499G	45.64	54.00	-8.36	14.14	3	Vertical	36	2.21	-	28.60	2.90	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

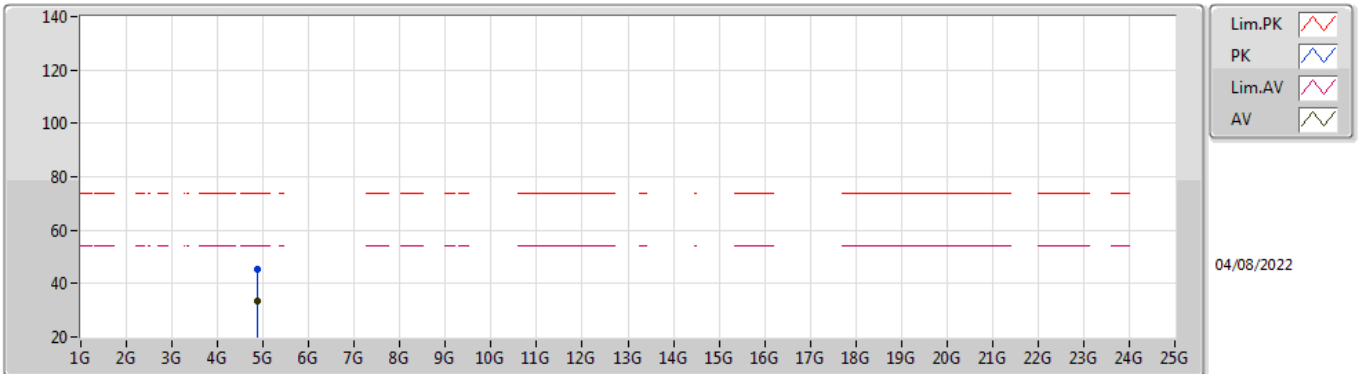


EUT_Y_2TX
Setting 25
02-F-G-4

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	2.385G	56.76	74.00	-17.24	25.60	3	Horizontal	289	2.09	-	28.37	2.79	-
AV	2.3878G	45.46	54.00	-8.54	14.29	3	Horizontal	289	2.09	-	28.38	2.79	-
PK	2.4378G	119.94	Inf	-Inf	88.70	3	Horizontal	289	2.09	-	28.40	2.84	-
AV	2.4366G	116.28	Inf	-Inf	85.04	3	Horizontal	289	2.09	-	28.40	2.84	-
PK	2.4982G	57.62	74.00	-16.38	26.13	3	Horizontal	289	2.09	-	28.59	2.90	-
AV	2.4878G	47.29	54.00	-6.71	15.85	3	Horizontal	289	2.09	-	28.55	2.89	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

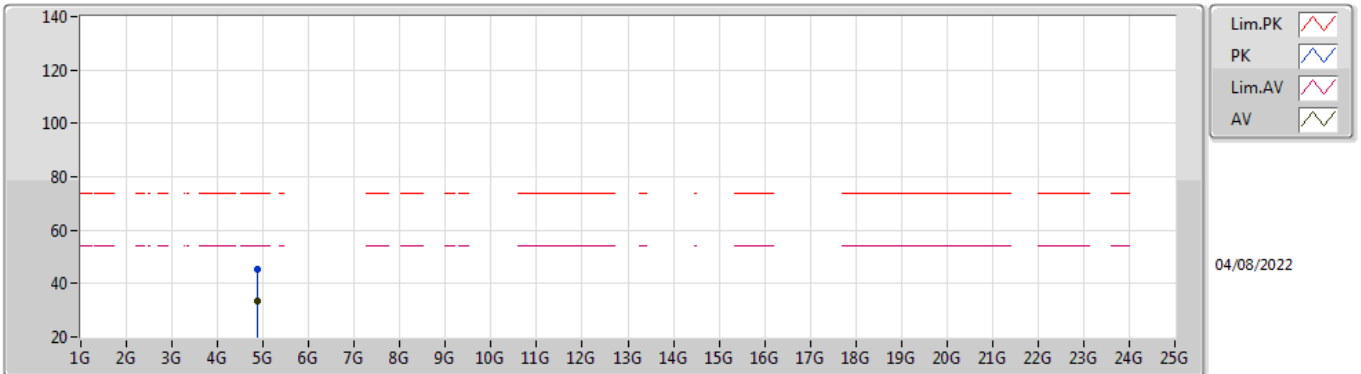


EUT Y_2TX
Setting 25
02-F-K-3

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	4.87486G	45.46	74.00	-28.54	37.99	3	Vertical	22	1.69	-	33.15	5.10	30.78	
AV	4.87376G	33.28	54.00	-20.72	25.81	3	Vertical	22	1.69	-	33.15	5.10	30.78	

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

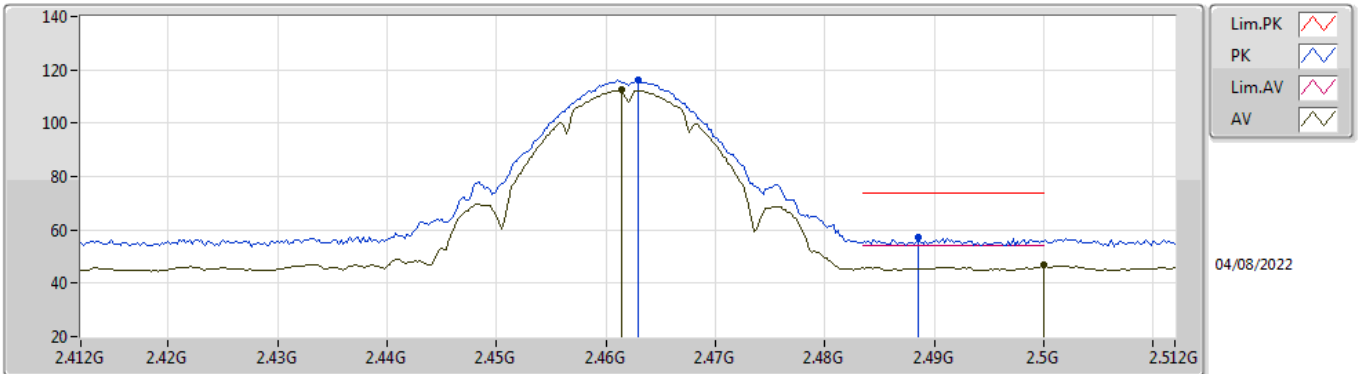


EUT Y_2TX
Setting 25
02-F-K-3

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	4.87222G	45.48	74.00	-28.52	38.02	3	Horizontal	358	1.31	-	33.14	5.10	30.78	
AV	4.87676G	33.23	54.00	-20.77	25.76	3	Horizontal	358	1.31	-	33.15	5.10	30.78	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

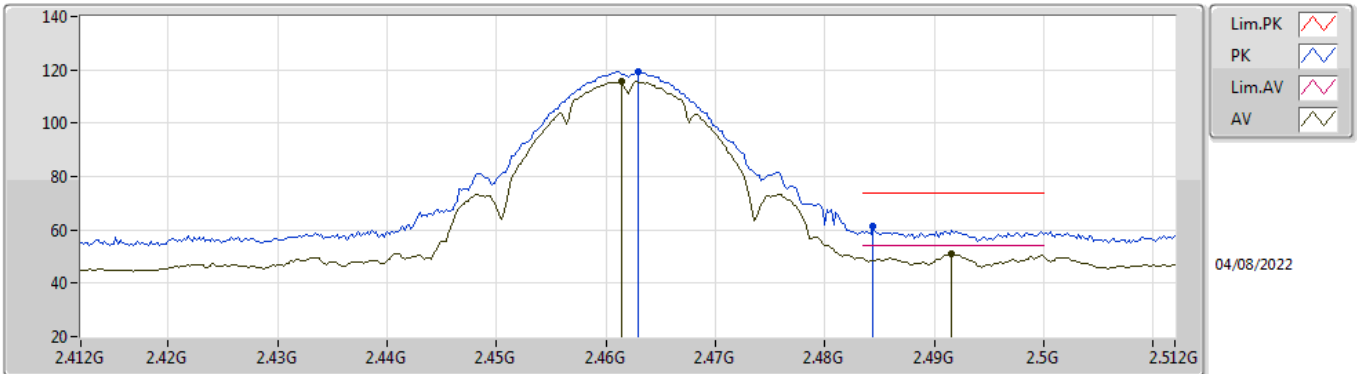


EUT_V_2TX
Setting 23
02-F-G-4

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	116.11	Inf	-Inf	84.80	3	Vertical	34	2.46	-	28.45	2.86	-	
AV	2.4614G	112.47	Inf	-Inf	81.16	3	Vertical	34	2.46	-	28.45	2.86	-	
PK	2.4886G	57.05	74.00	-16.95	25.61	3	Vertical	34	2.46	-	28.55	2.89	-	
AV	2.5G	46.65	54.00	-7.35	15.15	3	Vertical	34	2.46	-	28.60	2.90	-	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

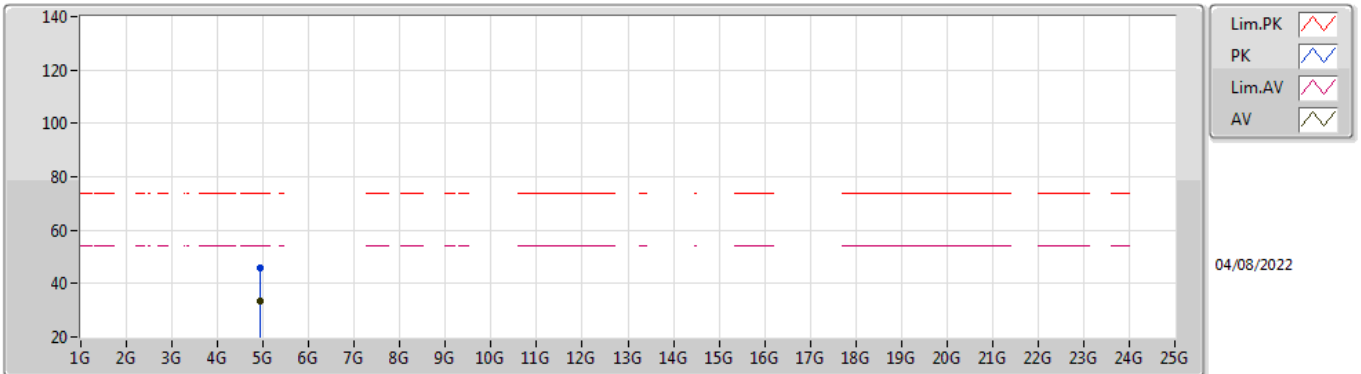


EUT_V_2TX
Setting 23
02-F-G-4

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	119.33	Inf	-Inf	88.02	3	Horizontal	290	2.03	-	28.45	2.86	-
AV	2.4614G	115.79	Inf	-Inf	84.48	3	Horizontal	290	2.03	-	28.45	2.86	-
PK	2.4844G	61.25	74.00	-12.75	29.83	3	Horizontal	290	2.03	-	28.54	2.88	-
AV	2.4916G	50.96	54.00	-3.04	19.50	3	Horizontal	290	2.03	-	28.57	2.89	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

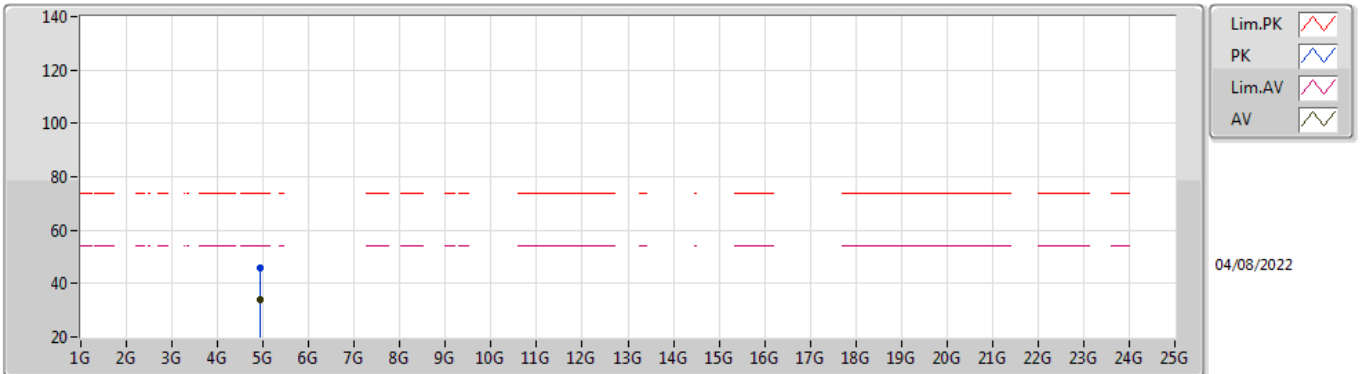


EUT Y_2TX
Setting 23
02-F-K-3

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	4.92495G	46.00	74.00	-28.00	38.41	3	Vertical	264	1.79	-	33.25	5.10	30.76	
AV	4.9238G	33.26	54.00	-20.74	25.67	3	Vertical	264	1.79	-	33.25	5.10	30.76	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

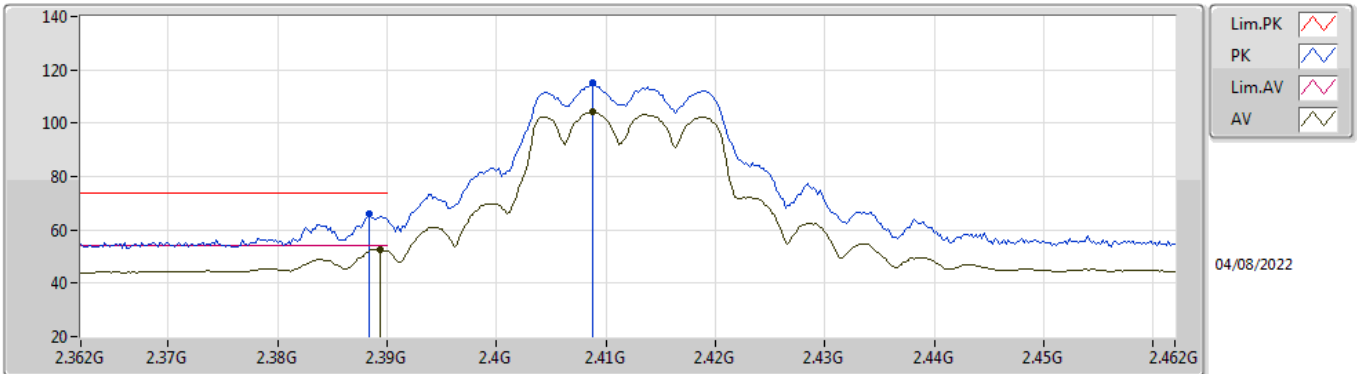


EUT Y_2TX
Setting 23
02-F-K-3

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	4.92375G	45.91	74.00	-28.09	38.32	3	Horizontal	304	1.85	-	33.25	5.10	30.76	
AV	4.92406G	33.92	54.00	-20.08	26.33	3	Horizontal	304	1.85	-	33.25	5.10	30.76	

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

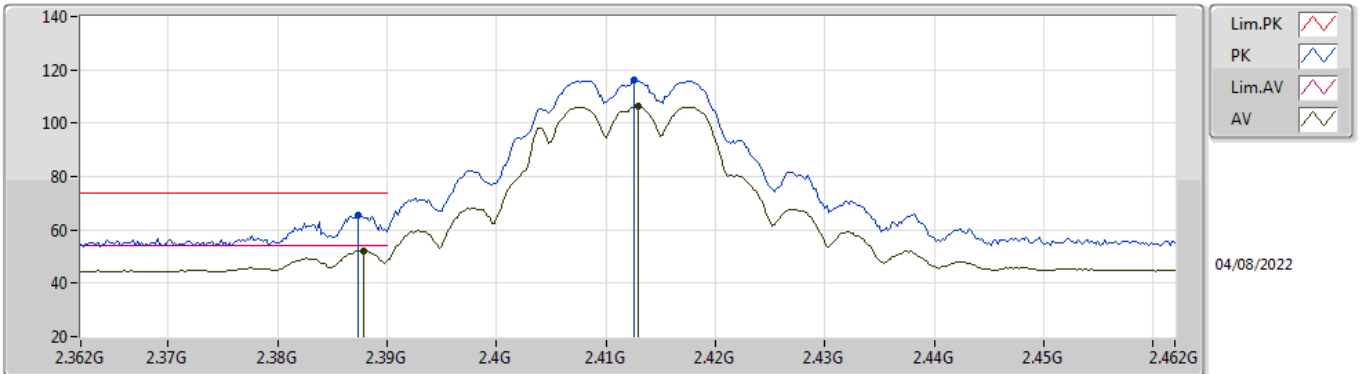


EUT Y_2TX
Setting 20.5
02-F-G-4

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	2.3884G	65.92	74.00	-8.08	34.75	3	Vertical	314	1.19	-	28.38	2.79	-
AV	2.3894G	52.65	54.00	-1.35	21.48	3	Vertical	314	1.19	-	28.38	2.79	-
PK	2.4088G	115.25	Inf	-Inf	84.04	3	Vertical	314	1.19	-	28.40	2.81	-
AV	2.4088G	104.46	Inf	-Inf	73.25	3	Vertical	314	1.19	-	28.40	2.81	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

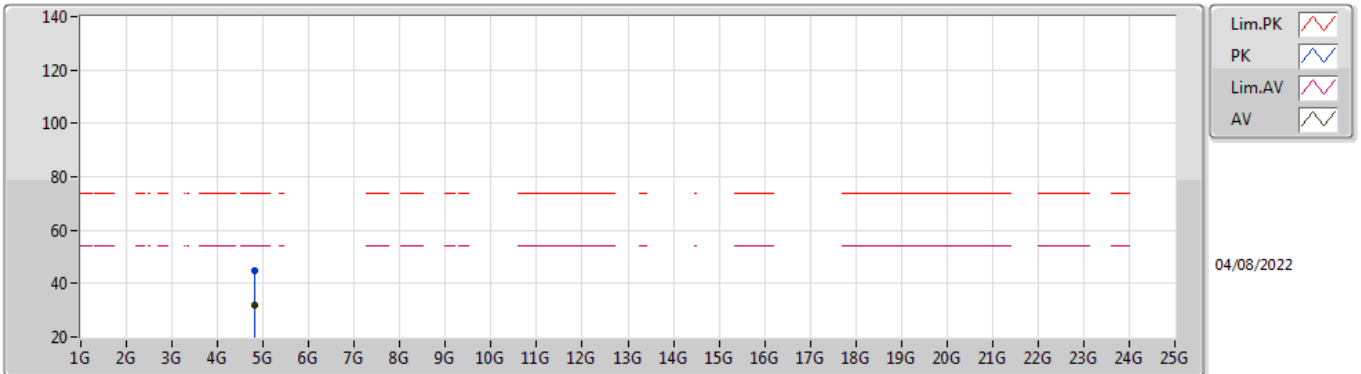


EUT V_2TX
Setting 20.5
02-F-G-4

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	2.3874G	65.27	74.00	-8.73	34.11	3	Horizontal	289	2.58	-	28.37	2.79	-
AV	2.3878G	52.23	54.00	-1.77	21.06	3	Horizontal	289	2.58	-	28.38	2.79	-
PK	2.4126G	116.24	Inf	-Inf	85.03	3	Horizontal	289	2.58	-	28.40	2.81	-
AV	2.413G	106.14	Inf	-Inf	74.93	3	Horizontal	289	2.58	-	28.40	2.81	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

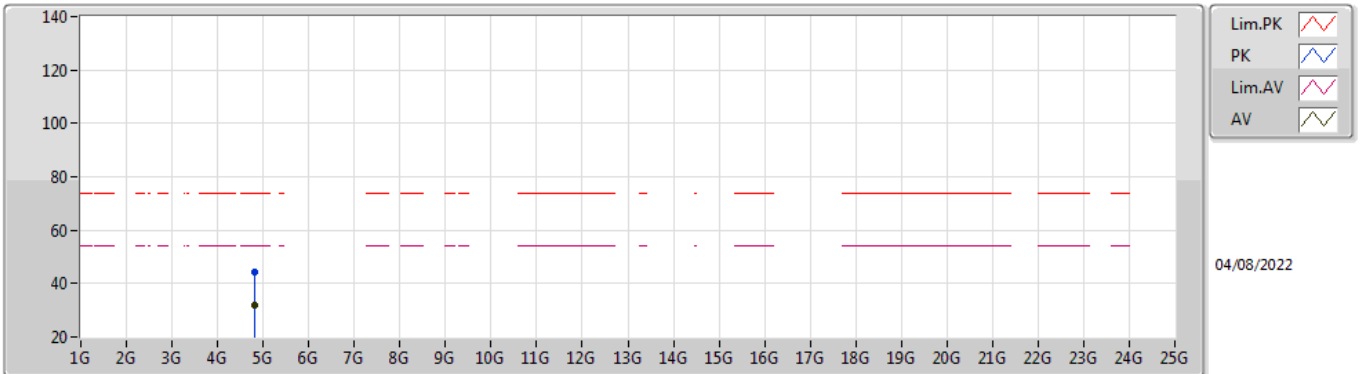


EUT Y_2TX
Setting 20.5
02-F-K-3

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	4.82467G	45.06	74.00	-28.94	37.81	3	Vertical	251	1.96	-	32.95	5.10	30.80
AV	4.8229G	31.91	54.00	-22.09	24.67	3	Vertical	251	1.96	-	32.94	5.10	30.80

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

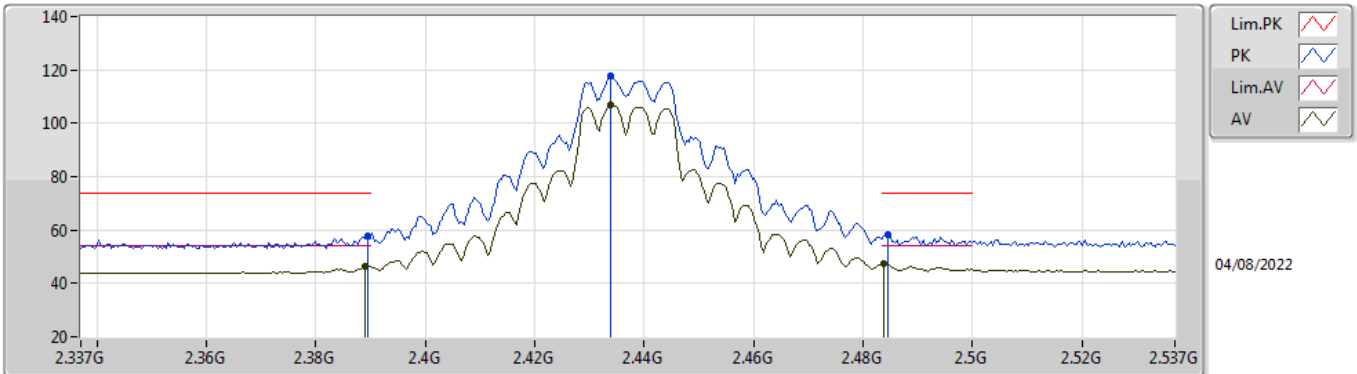


EUT Y_2TX
Setting 20.5
02-F-K-3

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	4.82598G	44.49	74.00	-29.51	37.23	3	Horizontal	320	1.85	-	32.96	5.10	30.80	
AV	4.82195G	32.05	54.00	-21.95	24.82	3	Horizontal	320	1.85	-	32.93	5.10	30.80	

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

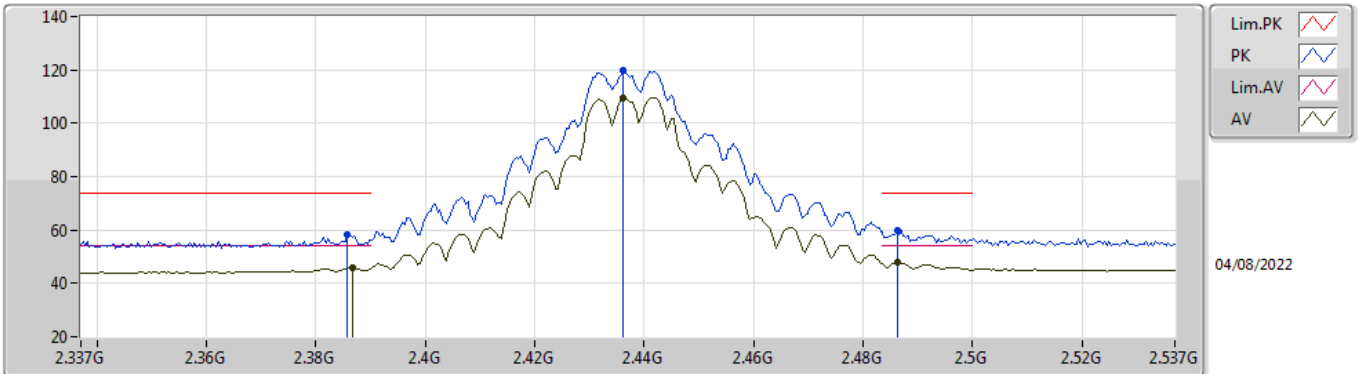


EUT_Y_2TX
Setting 25
02-F-G-4

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	57.57	74.00	-16.43	26.40	3	Vertical	320	1.33	-	28.38	2.79	-
AV	2.389G	46.21	54.00	-7.79	15.04	3	Vertical	320	1.33	-	28.38	2.79	-
PK	2.4338G	117.75	Inf	-Inf	86.52	3	Vertical	320	1.33	-	28.40	2.83	-
AV	2.4338G	106.90	Inf	-Inf	75.67	3	Vertical	320	1.33	-	28.40	2.83	-
PK	2.4846G	58.36	74.00	-15.64	26.94	3	Vertical	320	1.33	-	28.54	2.88	-
AV	2.4838G	47.16	54.00	-6.84	15.74	3	Vertical	320	1.33	-	28.54	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

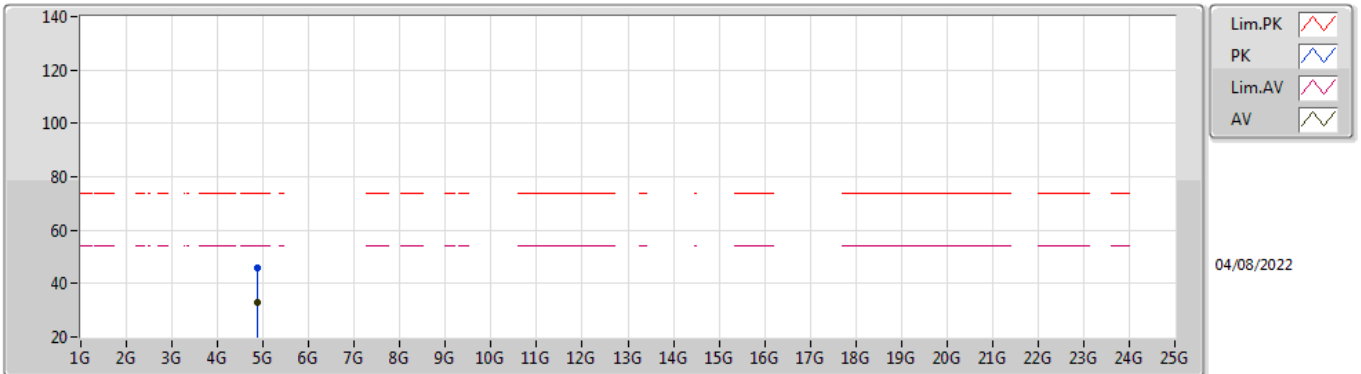


EUT_V_2TX
Setting 25
02-F-G-4

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	2.3858G	58.28	74.00	-15.72	27.12	3	Horizontal	288	2.07	-	28.37	2.79	-
AV	2.3866G	45.86	54.00	-8.14	14.70	3	Horizontal	288	2.07	-	28.37	2.79	-
PK	2.4362G	119.61	Inf	-Inf	88.37	3	Horizontal	288	2.07	-	28.40	2.84	-
AV	2.4362G	109.65	Inf	-Inf	78.41	3	Horizontal	288	2.07	-	28.40	2.84	-
PK	2.4862G	59.71	74.00	-14.29	28.28	3	Horizontal	288	2.07	-	28.54	2.89	-
AV	2.4862G	47.71	54.00	-6.29	16.28	3	Horizontal	288	2.07	-	28.54	2.89	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

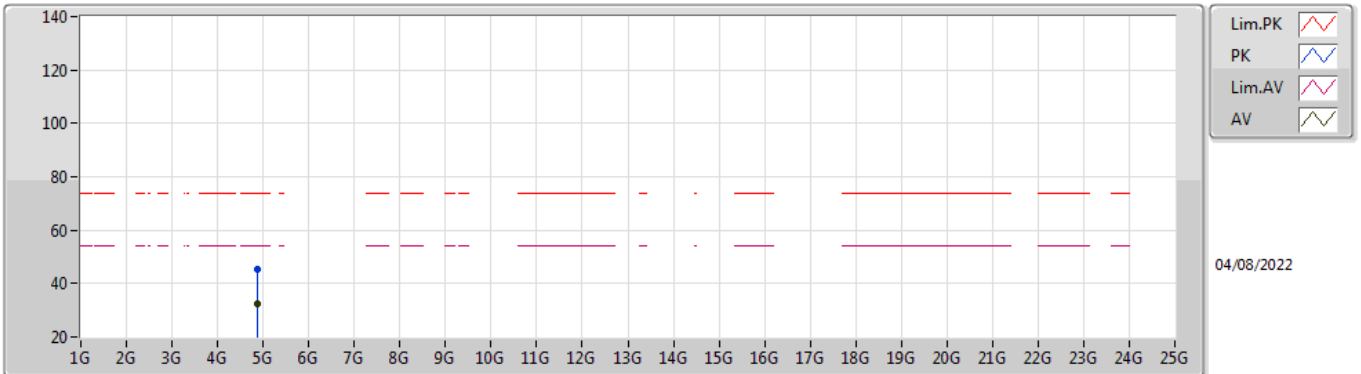


EUT Y_2TX
Setting 25
02-F-K-3

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	4.8685G	45.75	74.00	-28.25	38.30	3	Vertical	327	1.27	-	33.14	5.10	30.79	
AV	4.8734G	32.84	54.00	-21.16	25.37	3	Vertical	327	1.27	-	33.15	5.10	30.78	

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

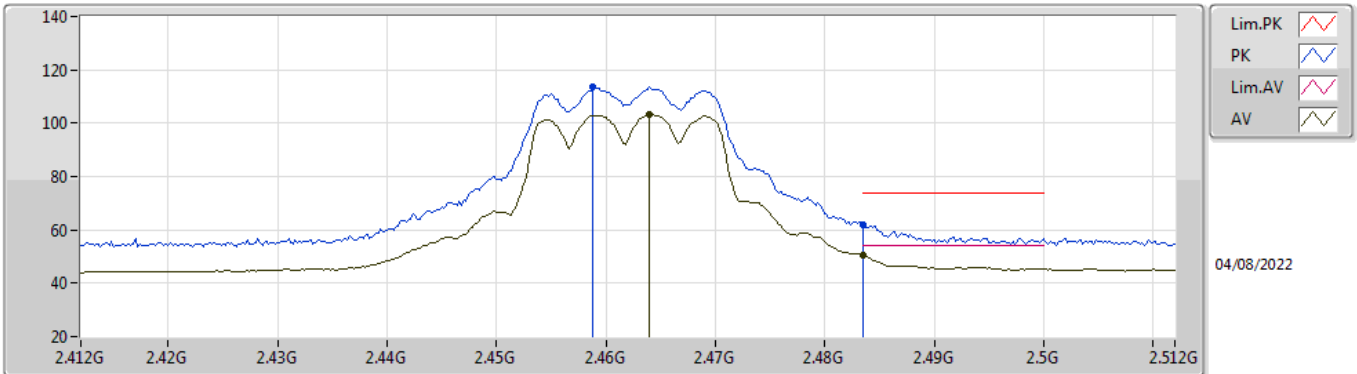


EUT Y_2TX
Setting 25
02-F-K-3

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	4.87467G	45.37	74.00	-28.63	37.90	3	Horizontal	178	2.21	-	33.15	5.10	30.78	
AV	4.87255G	32.52	54.00	-21.48	25.05	3	Horizontal	178	2.21	-	33.15	5.10	30.78	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

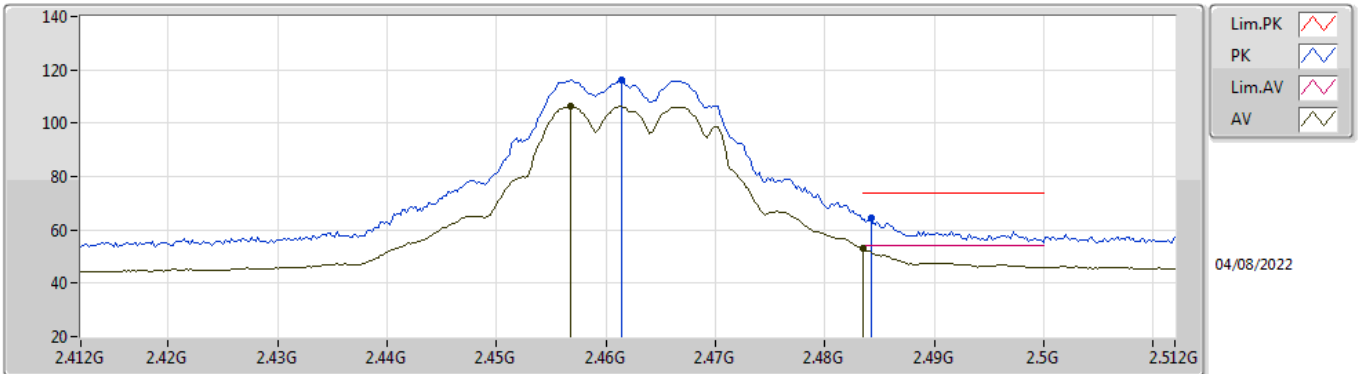


EUT Y_2TX
Setting 19.5
02-F-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4588G	113.64	Inf	-Inf	82.34	3	Vertical	314	1.47	-	28.44	2.86	-	
AV	2.464G	103.13	Inf	-Inf	71.81	3	Vertical	314	1.47	-	28.46	2.86	-	
PK	2.4835G	61.93	74.00	-12.07	30.52	3	Vertical	314	1.47	-	28.53	2.88	-	
AV	2.4835G	50.26	54.00	-3.74	18.85	3	Vertical	314	1.47	-	28.53	2.88	-	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

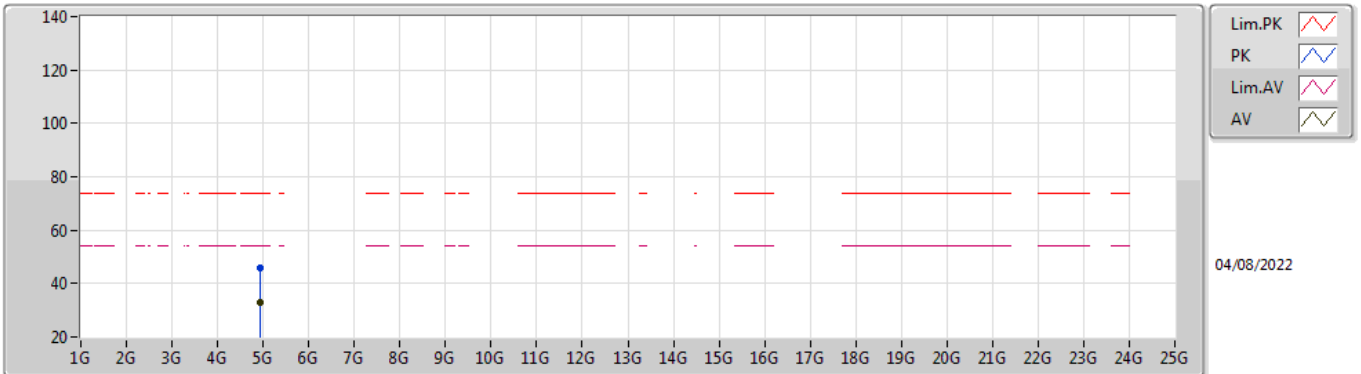


EUT_V_2TX
Setting 19.5
02-F-G-4

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	116.20	Inf	-Inf	84.89	3	Horizontal	289	2.04	-	28.45	2.86	-
AV	2.4568G	106.36	Inf	-Inf	75.07	3	Horizontal	289	2.04	-	28.43	2.86	-
PK	2.4842G	64.40	74.00	-9.60	32.98	3	Horizontal	289	2.04	-	28.54	2.88	-
AV	2.4835G	53.23	54.00	-0.77	21.82	3	Horizontal	289	2.04	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

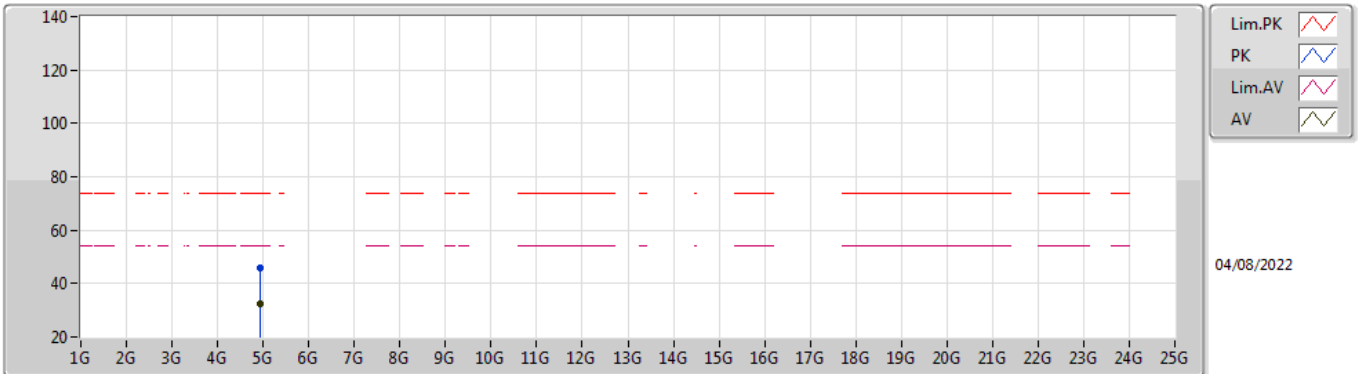


EUT Y_2TX
Setting 19.5
02-F-K-3

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	4.92385G	45.70	74.00	-28.30	38.11	3	Vertical	144	2.75	-	33.25	5.10	30.76
AV	4.92394G	32.79	54.00	-21.21	25.20	3	Vertical	144	2.75	-	33.25	5.10	30.76

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

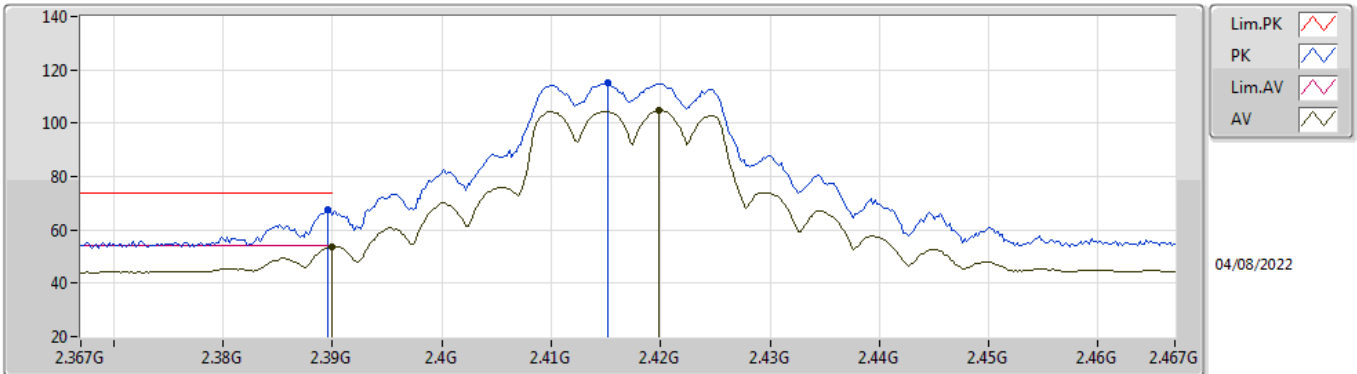


EUT Y_2TX
Setting 19.5
02-F-K-3

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	4.92516G	45.95	74.00	-28.05	38.36	3	Horizontal	151	1.37	-	33.25	5.10	30.76	
AV	4.92374G	32.57	54.00	-21.43	24.98	3	Horizontal	151	1.37	-	33.25	5.10	30.76	

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

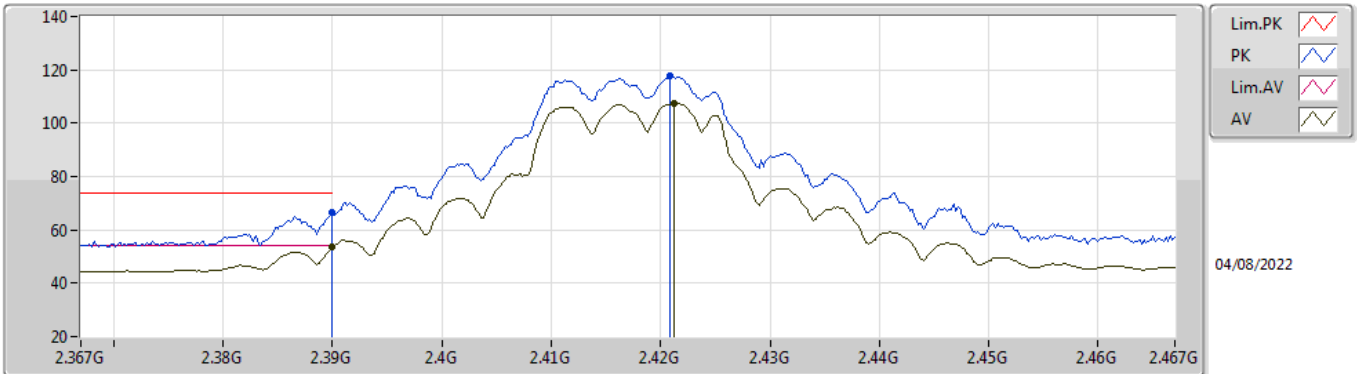


EUT V_2TX
Setting 21.5
02-F-G-4

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	67.51	74.00	-6.49	36.34	3	Vertical	322	2.12	-	28.38	2.79	-
AV	2.39G	53.76	54.00	-0.24	22.59	3	Vertical	322	2.12	-	28.38	2.79	-
PK	2.4152G	115.07	Inf	-Inf	83.85	3	Vertical	322	2.12	-	28.40	2.82	-
AV	2.4198G	104.70	Inf	-Inf	73.48	3	Vertical	322	2.12	-	28.40	2.82	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

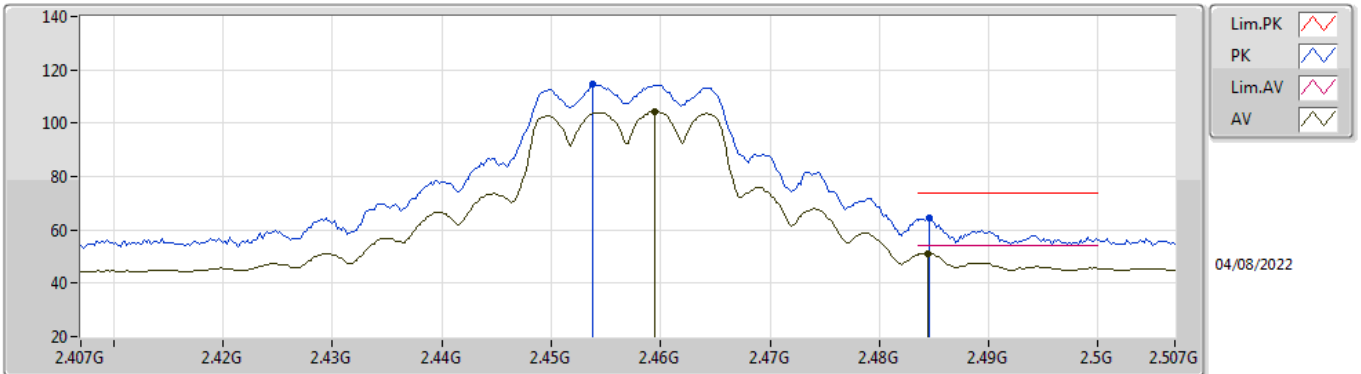


EUT V_2TX
Setting 21.5
02-F-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	66.53	74.00	-7.47	35.36	3	Horizontal	292	1.85	-	28.38	2.79	-
AV	2.39G	53.65	54.00	-0.35	22.48	3	Horizontal	292	1.85	-	28.38	2.79	-
PK	2.4208G	117.52	Inf	-Inf	86.30	3	Horizontal	292	1.85	-	28.40	2.82	-
AV	2.4212G	107.49	Inf	-Inf	76.27	3	Horizontal	292	1.85	-	28.40	2.82	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

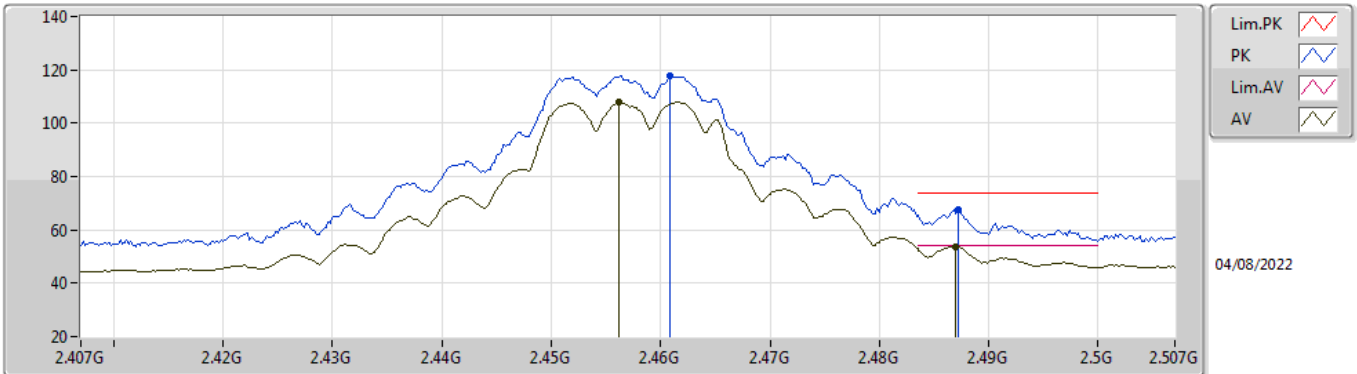


EUT Y_2TX
Setting 21
02-F-G-4

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	2.4538G	114.43	Inf	-Inf	83.16	3	Vertical	321	1.50	-	28.42	2.85	-
AV	2.4594G	104.36	Inf	-Inf	73.06	3	Vertical	321	1.50	-	28.44	2.86	-
PK	2.4846G	64.31	74.00	-9.69	32.89	3	Vertical	321	1.50	-	28.54	2.88	-
AV	2.4844G	51.22	54.00	-2.78	19.80	3	Vertical	321	1.50	-	28.54	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

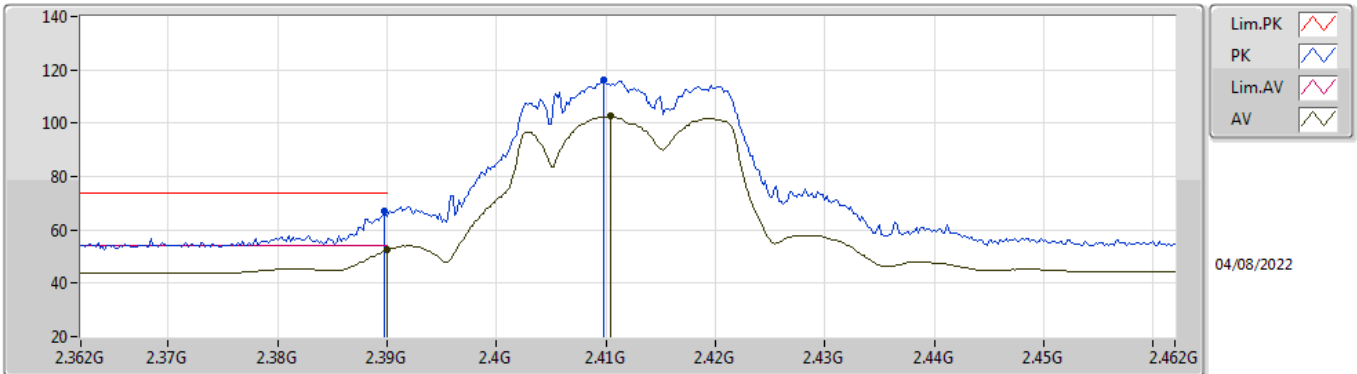


EUT V_2TX
Setting 21
02-F-G-4

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	2.4608G	117.93	Inf	-Inf	86.63	3	Horizontal	291	2.02	-	28.44	2.86	-
AV	2.4562G	107.91	Inf	-Inf	76.63	3	Horizontal	291	2.02	-	28.42	2.86	-
PK	2.4872G	67.35	74.00	-6.65	35.91	3	Horizontal	291	2.02	-	28.55	2.89	-
AV	2.487G	53.78	54.00	-0.22	22.34	3	Horizontal	291	2.02	-	28.55	2.89	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

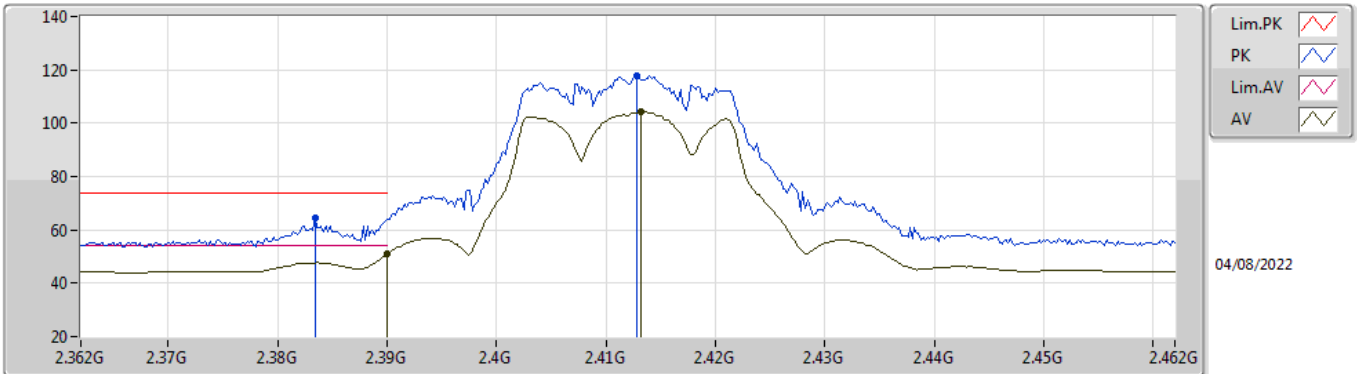


EUT Y_2TX
Setting 20
02-F-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	66.91	74.00	-7.09	35.74	3	Vertical	22	3.00	-	28.38	2.79	-
AV	2.39G	52.58	54.00	-1.42	21.41	3	Vertical	22	3.00	-	28.38	2.79	-
PK	2.4098G	116.27	Inf	-Inf	85.06	3	Vertical	22	3.00	-	28.40	2.81	-
AV	2.4104G	102.73	Inf	-Inf	71.52	3	Vertical	22	3.00	-	28.40	2.81	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

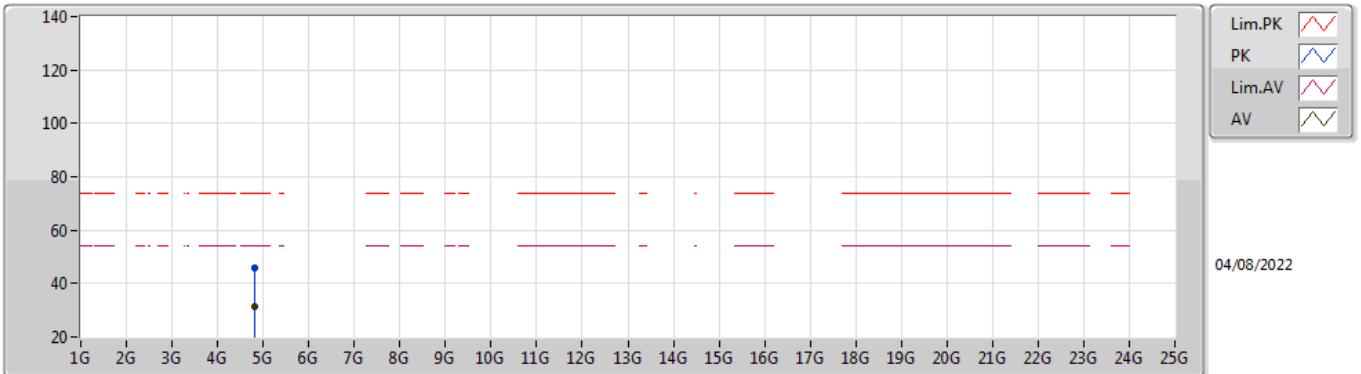


EUT V_2TX
Setting 20
02-F-G-4

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	64.50	74.00	-9.50	33.34	3	Horizontal	288	2.58	-	28.37	2.79	-
AV	2.39G	51.11	54.00	-2.89	19.94	3	Horizontal	288	2.58	-	28.38	2.79	-
PK	2.4128G	117.84	Inf	-Inf	86.63	3	Horizontal	288	2.58	-	28.40	2.81	-
AV	2.4132G	104.32	Inf	-Inf	73.11	3	Horizontal	288	2.58	-	28.40	2.81	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

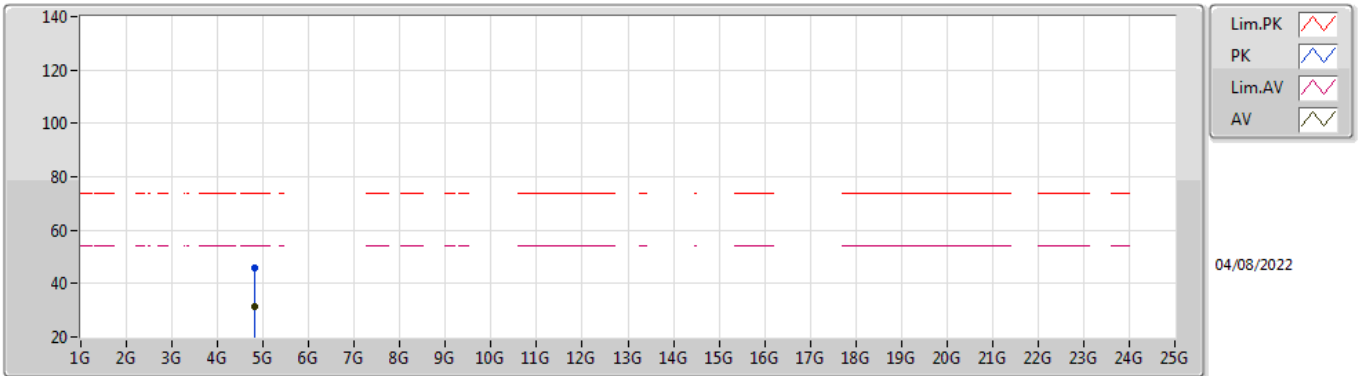


EUT Y_2TX
Setting 20
02-F-G-4

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	4.82412G	45.80	74.00	-28.20	38.56	3	Vertical	73	1.13	-	32.94	5.10	30.80
AV	4.82278G	31.50	54.00	-22.50	24.26	3	Vertical	73	1.13	-	32.94	5.10	30.80

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

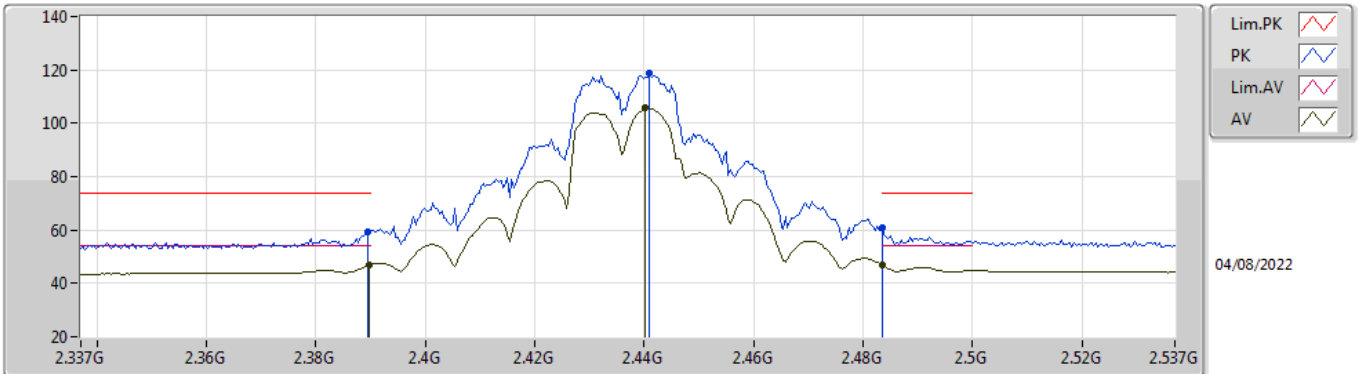


EUT Y_2TX
Setting 20
02-F-G-4

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	4.82558G	46.09	74.00	-27.91	38.84	3	Horizontal	65	2.32	-	32.95	5.10	30.80
AV	4.8239G	31.54	54.00	-22.46	24.30	3	Horizontal	65	2.32	-	32.94	5.10	30.80

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

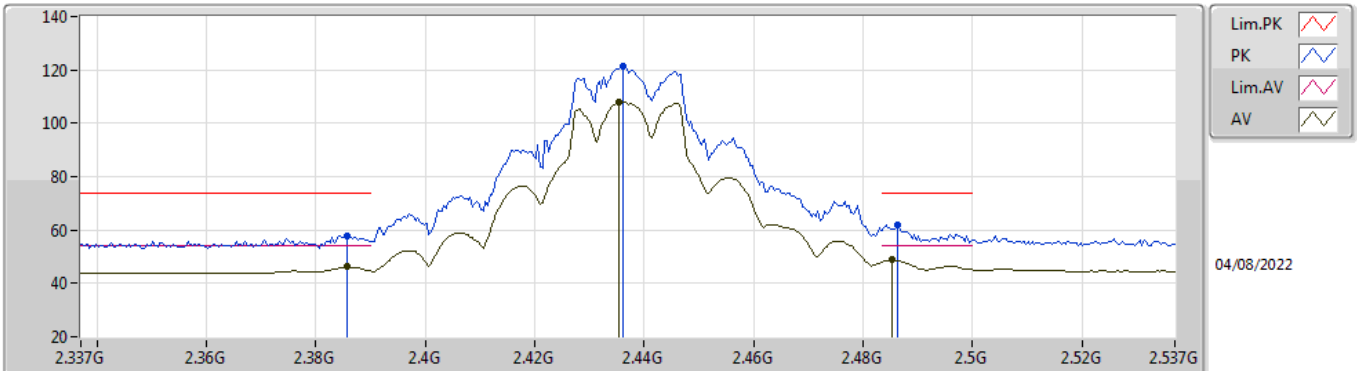


EUT_V_2TX
Setting 25
02-F-G-4

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	59.27	74.00	-14.73	28.10	3	Vertical	319	1.00	-	28.38	2.79	-	
AV	2.3898G	46.84	54.00	-7.16	15.67	3	Vertical	319	1.00	-	28.38	2.79	-	
PK	2.441G	118.93	Inf	-Inf	87.69	3	Vertical	319	1.00	-	28.40	2.84	-	
AV	2.4402G	105.65	Inf	-Inf	74.41	3	Vertical	319	1.00	-	28.40	2.84	-	
PK	2.4835G	60.84	74.00	-13.16	29.43	3	Vertical	319	1.00	-	28.53	2.88	-	
AV	2.4835G	46.99	54.00	-7.01	15.58	3	Vertical	319	1.00	-	28.53	2.88	-	

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

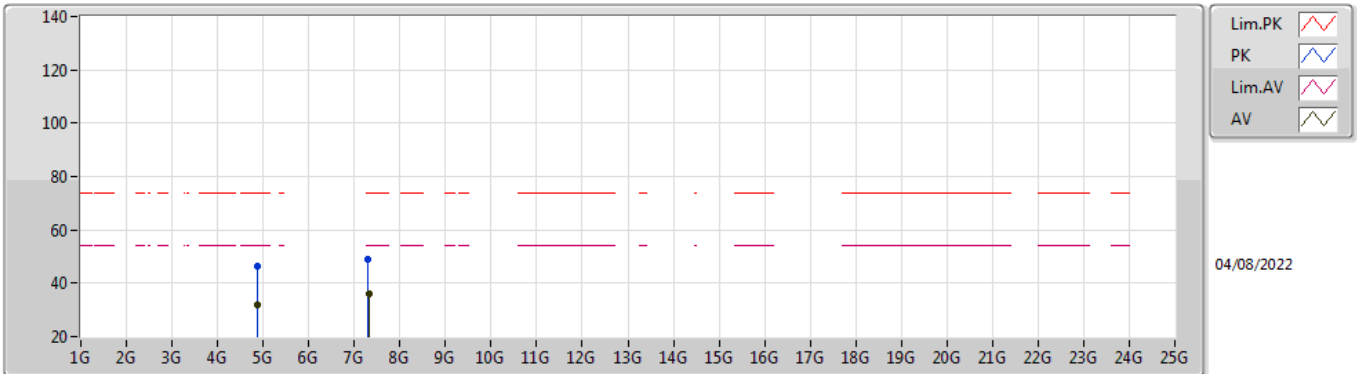


EUT_V_2TX
Setting 25
02-F-G-4

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	2.3858G	57.69	74.00	-16.31	26.53	3	Horizontal	290	2.08	-	28.37	2.79	-
AV	2.3858G	46.19	54.00	-7.81	15.03	3	Horizontal	290	2.08	-	28.37	2.79	-
PK	2.4362G	121.57	Inf	-Inf	90.33	3	Horizontal	290	2.08	-	28.40	2.84	-
AV	2.4354G	108.11	Inf	-Inf	76.87	3	Horizontal	290	2.08	-	28.40	2.84	-
PK	2.4862G	61.83	74.00	-12.17	30.40	3	Horizontal	290	2.08	-	28.54	2.89	-
AV	2.4854G	48.79	54.00	-5.21	17.36	3	Horizontal	290	2.08	-	28.54	2.89	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

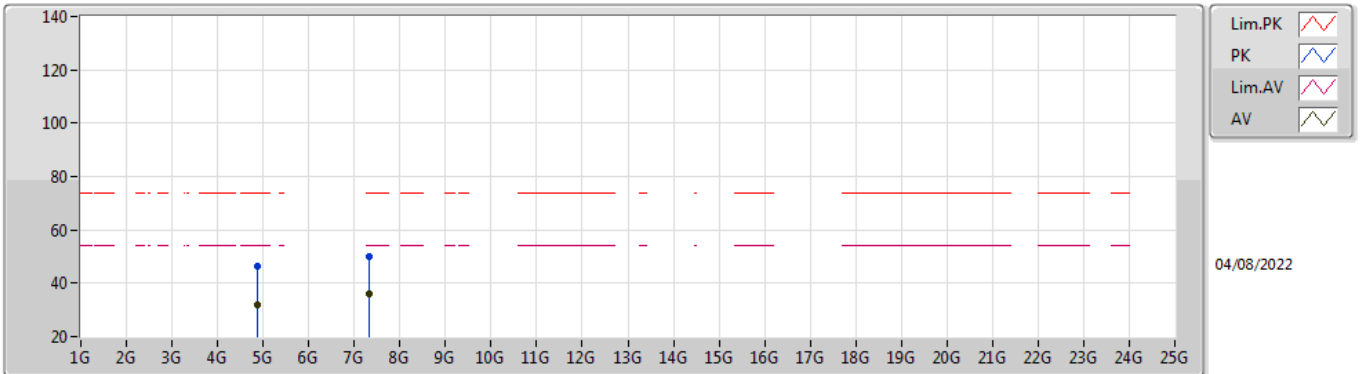


EUT Y_2TX
Setting 25
02-F-G-4

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	4.87458G	46.24	74.00	-27.76	38.77	3	Vertical	211	2.87	-	33.15	5.10	30.78
AV	4.8738G	31.89	54.00	-22.11	24.42	3	Vertical	211	2.87	-	33.15	5.10	30.78
PK	7.30822G	49.14	74.00	-24.86	38.49	3	Vertical	30	1.16	-	36.42	6.15	31.92
AV	7.31408G	35.82	54.00	-18.18	25.15	3	Vertical	30	1.16	-	36.43	6.16	31.92

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

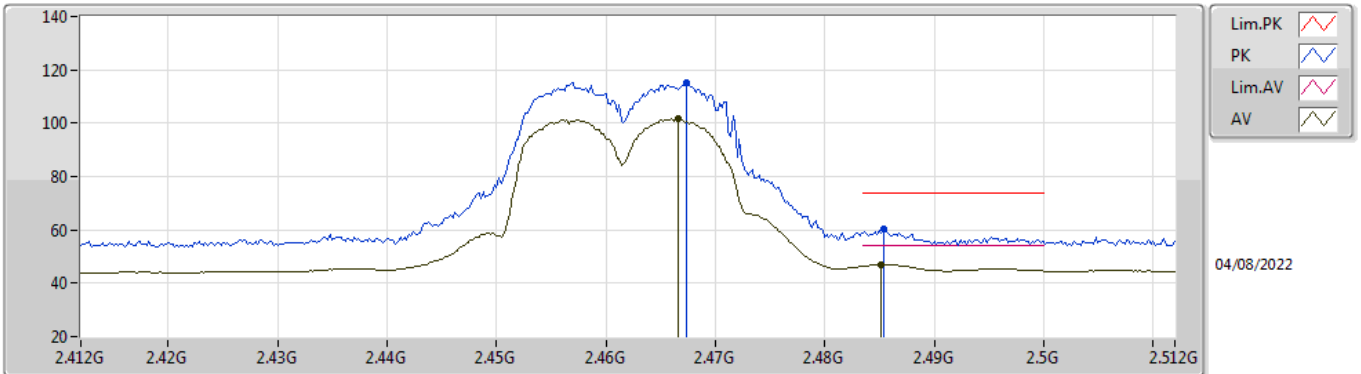


EUT Y_2TX
Setting 25
02-F-G-4

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	4.87628G	46.57	74.00	-27.43	39.10	3	Horizontal	261	2.70	-	33.15	5.10	30.78
AV	4.87242G	31.91	54.00	-22.09	24.45	3	Horizontal	261	2.70	-	33.14	5.10	30.78
PK	7.31274G	50.17	74.00	-23.83	39.50	3	Horizontal	141	1.54	-	36.43	6.16	31.92
AV	7.3156G	35.92	54.00	-18.08	25.25	3	Horizontal	141	1.54	-	36.43	6.16	31.92

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

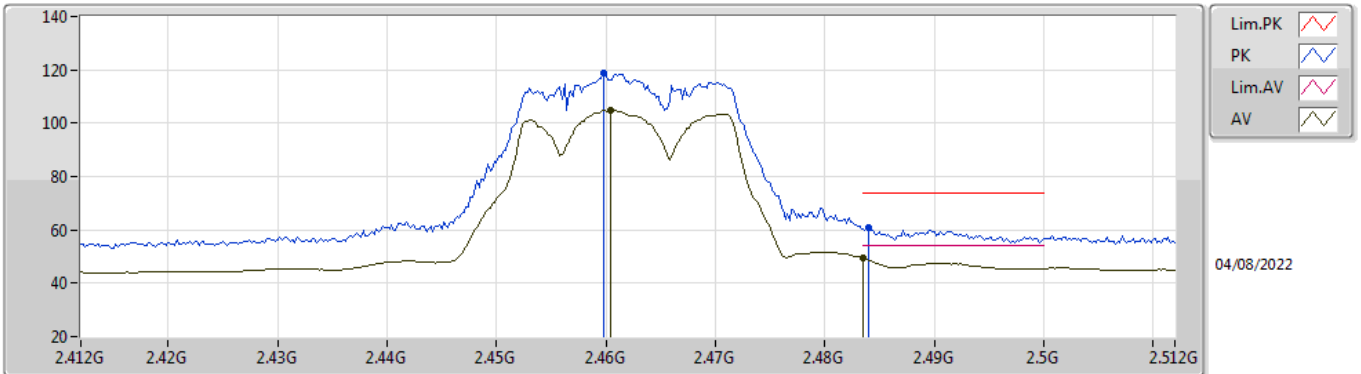


EUT Y_2TX
Setting 19.5
02-F-G-4

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	115.36	Inf	-Inf	84.02	3	Vertical	316	1.48	-	28.47	2.87	-
AV	2.4666G	101.61	Inf	-Inf	70.27	3	Vertical	316	1.48	-	28.47	2.87	-
PK	2.4854G	60.13	74.00	-13.87	28.70	3	Vertical	316	1.48	-	28.54	2.89	-
AV	2.4852G	47.04	54.00	-6.96	15.61	3	Vertical	316	1.48	-	28.54	2.89	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

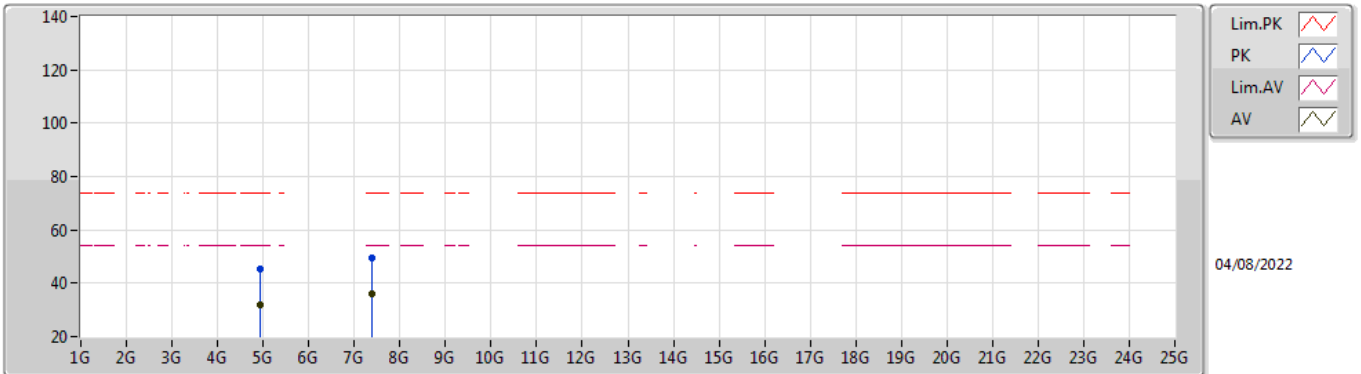


EUT V_2TX
Setting 19.5
02-F-G-4

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	2.4598G	119.01	Inf	-Inf	87.71	3	Horizontal	286	2.02	-	28.44	2.86	-
AV	2.4604G	105.00	Inf	-Inf	73.70	3	Horizontal	286	2.02	-	28.44	2.86	-
PK	2.484G	60.69	74.00	-13.31	29.27	3	Horizontal	286	2.02	-	28.54	2.88	-
AV	2.4835G	49.46	54.00	-4.54	18.05	3	Horizontal	286	2.02	-	28.53	2.88	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

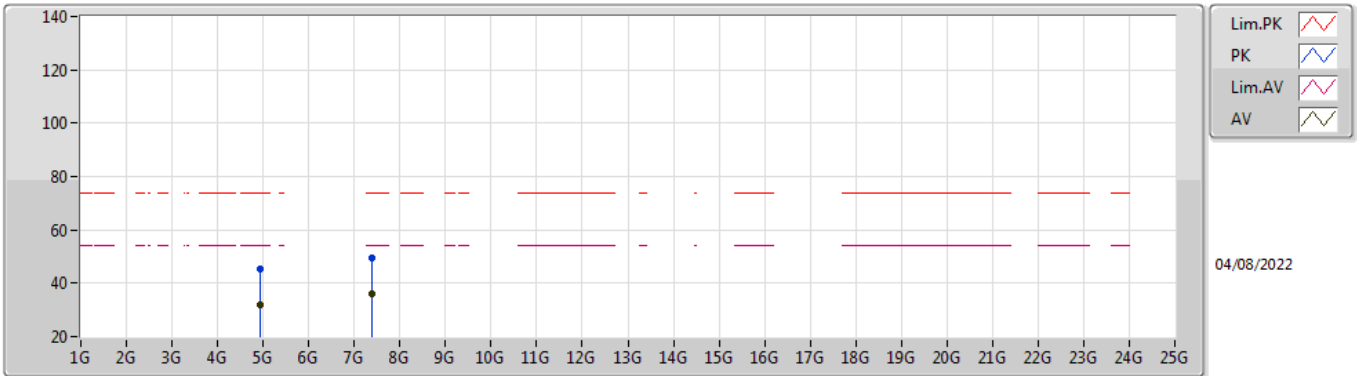


EUT V_2TX
Setting 19.5
02-F-G-4

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	4.92596G	45.49	74.00	-28.51	37.90	3	Vertical	24	1.21	-	33.25	5.10	30.76
AV	4.92402G	31.74	54.00	-22.26	24.15	3	Vertical	24	1.21	-	33.25	5.10	30.76
PK	7.38518G	49.62	74.00	-24.38	38.89	3	Vertical	288	2.34	-	36.50	6.19	31.96
AV	7.38956G	35.93	54.00	-18.07	25.21	3	Vertical	288	2.34	-	36.50	6.19	31.97

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

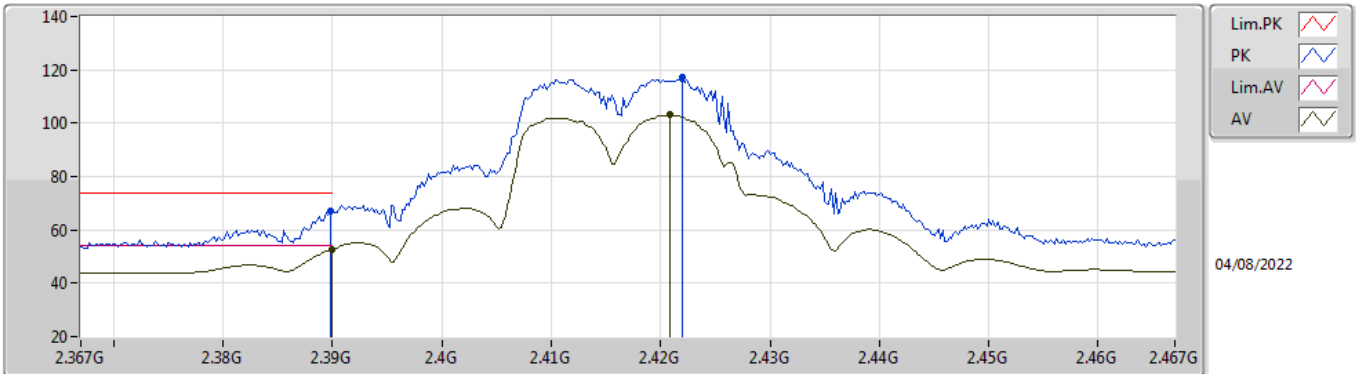


EUT Y_2TX
Setting 19.5
02-F-G-4

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	4.92156G	45.27	74.00	-28.73	37.69	3	Horizontal	275	2.15	-	33.24	5.10	30.76
AV	4.92444G	31.78	54.00	-22.22	24.19	3	Horizontal	275	2.15	-	33.25	5.10	30.76
PK	7.38614G	49.48	74.00	-24.52	38.75	3	Horizontal	320	3.00	-	36.50	6.19	31.96
AV	7.38366G	35.96	54.00	-18.04	25.23	3	Horizontal	320	3.00	-	36.50	6.19	31.96

802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

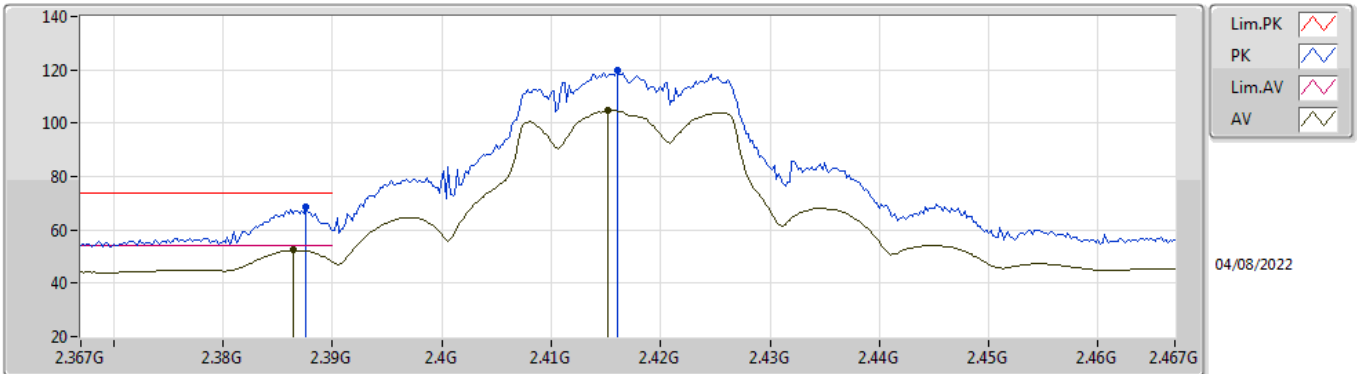


EUT Y_2TX
Setting 21.5
02-F-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	67.12	74.00	-6.88	35.95	3	Vertical	316	1.11	-	28.38	2.79	-
AV	2.39G	52.77	54.00	-1.23	21.60	3	Vertical	316	1.11	-	28.38	2.79	-
PK	2.422G	117.00	Inf	-Inf	85.78	3	Vertical	316	1.11	-	28.40	2.82	-
AV	2.4208G	103.05	Inf	-Inf	71.83	3	Vertical	316	1.11	-	28.40	2.82	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

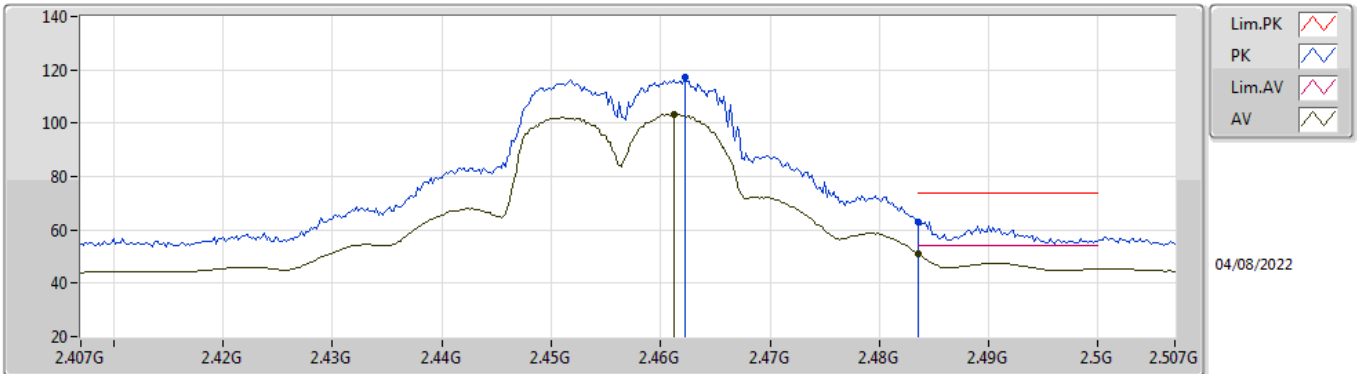


EUT V_2TX
Setting 21.5
02-F-G-4

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	2.3876G	68.70	74.00	-5.30	37.53	3	Horizontal	292	1.89	-	28.38	2.79	-
AV	2.3864G	52.45	54.00	-1.55	21.29	3	Horizontal	292	1.89	-	28.37	2.79	-
PK	2.416G	119.60	Inf	-Inf	88.38	3	Horizontal	292	1.89	-	28.40	2.82	-
AV	2.4152G	104.89	Inf	-Inf	73.67	3	Horizontal	292	1.89	-	28.40	2.82	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

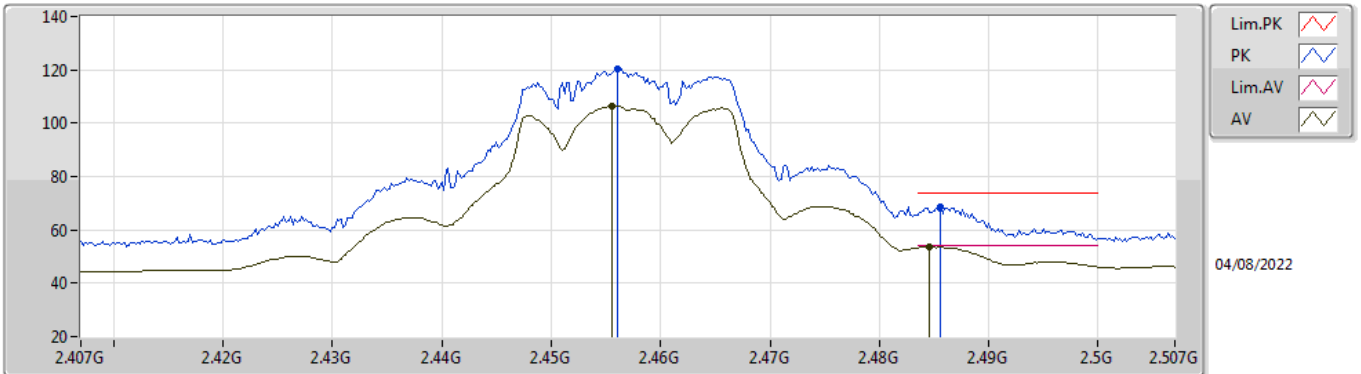


EUT Y_2TX
Setting 21
02-F-G-4

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	2.4622G	117.09	Inf	-Inf	85.78	3	Vertical	315	1.48	-	28.45	2.86	-
AV	2.4612G	103.38	Inf	-Inf	72.08	3	Vertical	315	1.48	-	28.44	2.86	-
PK	2.4835G	63.18	74.00	-10.82	31.77	3	Vertical	315	1.48	-	28.53	2.88	-
AV	2.4835G	50.83	54.00	-3.17	19.42	3	Vertical	315	1.48	-	28.53	2.88	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

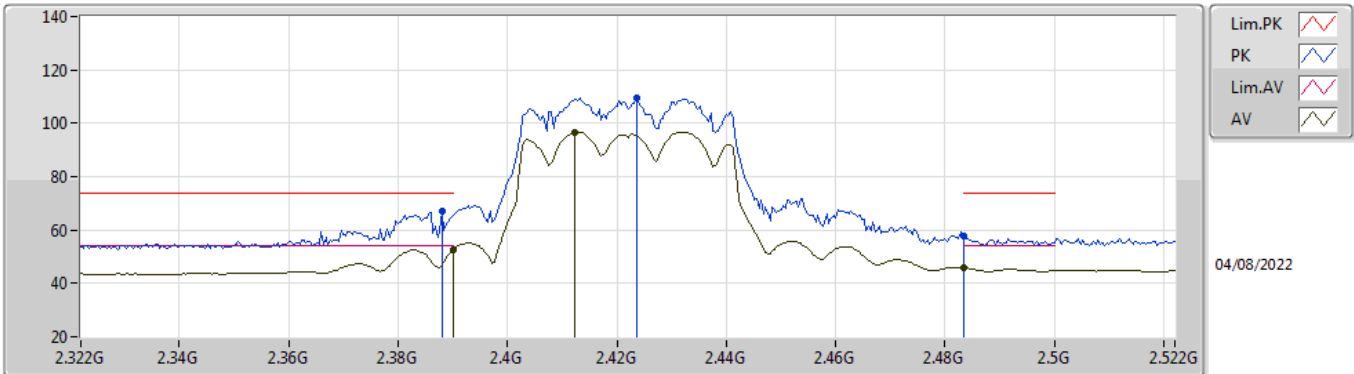


EUT_V_2TX
Setting 21
02-F-G-4

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	2.456G	120.58	Inf	-Inf	89.30	3	Horizontal	291	2.02	-	28.42	2.86	-	
AV	2.4556G	106.63	Inf	-Inf	75.35	3	Horizontal	291	2.02	-	28.42	2.86	-	
PK	2.4856G	68.59	74.00	-5.41	37.16	3	Horizontal	291	2.02	-	28.54	2.89	-	
AV	2.4846G	53.66	54.00	-0.34	22.24	3	Horizontal	291	2.02	-	28.54	2.88	-	

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

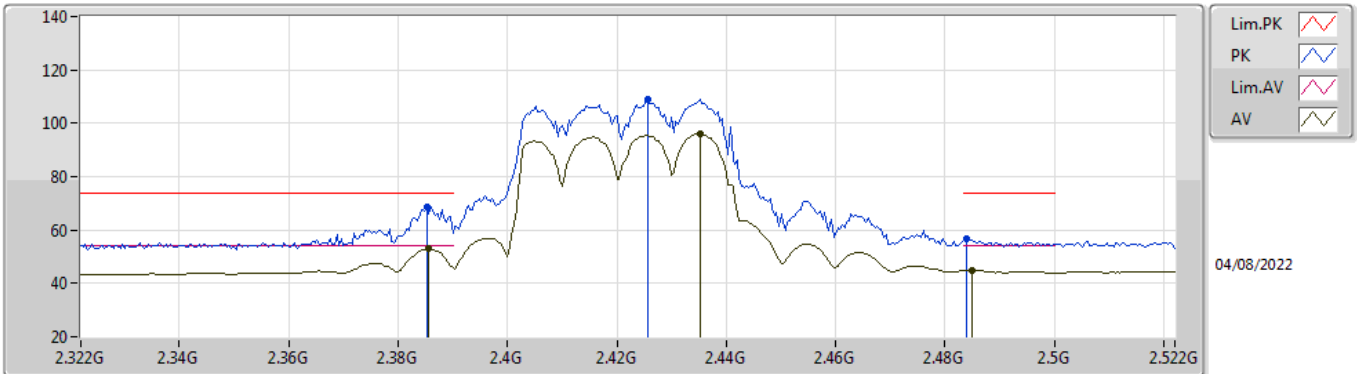


EUT Y_2TX
Setting 19.5
02-F-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	66.89	74.00	-7.11	35.72	3	Vertical	318	1.34	-	28.38	2.79	-
AV	2.39G	52.66	54.00	-1.34	21.49	3	Vertical	318	1.34	-	28.38	2.79	-
PK	2.4236G	109.65	Inf	-Inf	78.43	3	Vertical	318	1.34	-	28.40	2.82	-
AV	2.4124G	96.76	Inf	-Inf	65.55	3	Vertical	318	1.34	-	28.40	2.81	-
PK	2.4835G	57.78	74.00	-16.22	26.37	3	Vertical	318	1.34	-	28.53	2.88	-
AV	2.4835G	45.98	54.00	-8.02	14.57	3	Vertical	318	1.34	-	28.53	2.88	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

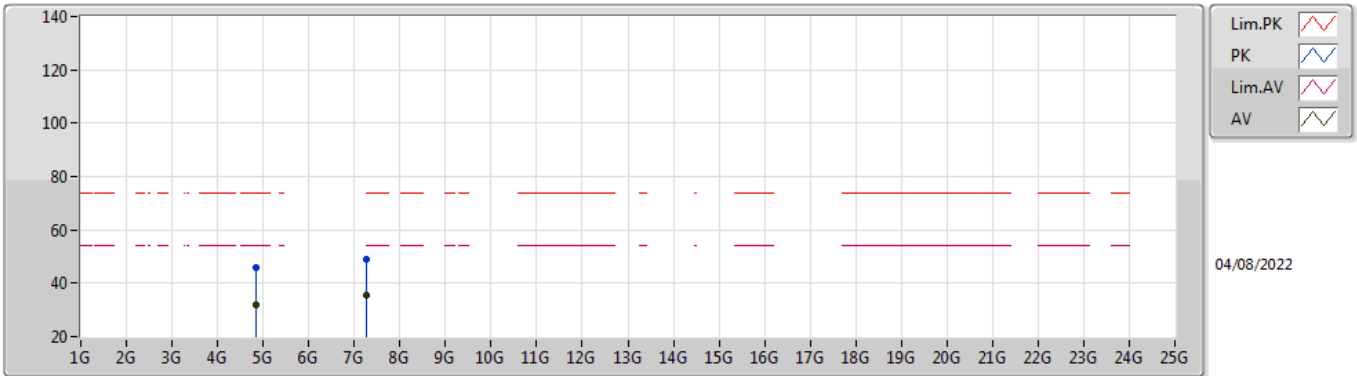


EUT Y_2TX
Setting 19.5
02-F-G-4

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	68.61	74.00	-5.39	37.45	3	Horizontal	287	1.62	-	28.37	2.79	-
AV	2.3856G	52.88	54.00	-1.12	21.72	3	Horizontal	287	1.62	-	28.37	2.79	-
PK	2.4256G	109.04	Inf	-Inf	77.81	3	Horizontal	287	1.62	-	28.40	2.83	-
AV	2.4352G	95.94	Inf	-Inf	64.70	3	Horizontal	287	1.62	-	28.40	2.84	-
PK	2.484G	56.63	74.00	-17.37	25.21	3	Horizontal	287	1.62	-	28.54	2.88	-
AV	2.4848G	44.89	54.00	-9.11	13.47	3	Horizontal	287	1.62	-	28.54	2.88	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

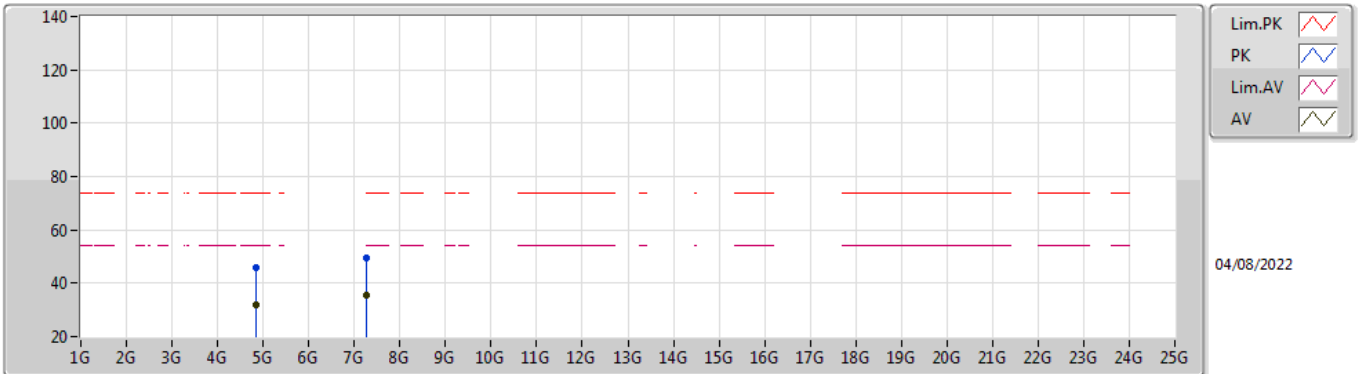


EUT Y_2TX
Setting 19.5
02-F-G-4

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	4.8419G	46.00	74.00	-28.00	38.65	3	Vertical	17	3.00	-	33.05	5.10	30.80
AV	4.84446G	32.05	54.00	-21.95	24.68	3	Vertical	17	3.00	-	33.07	5.10	30.80
PK	7.26698G	49.19	74.00	-24.81	38.68	3	Vertical	278	2.39	-	36.27	6.13	31.89
AV	7.26204G	35.45	54.00	-18.55	24.96	3	Vertical	278	2.39	-	36.25	6.13	31.89

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

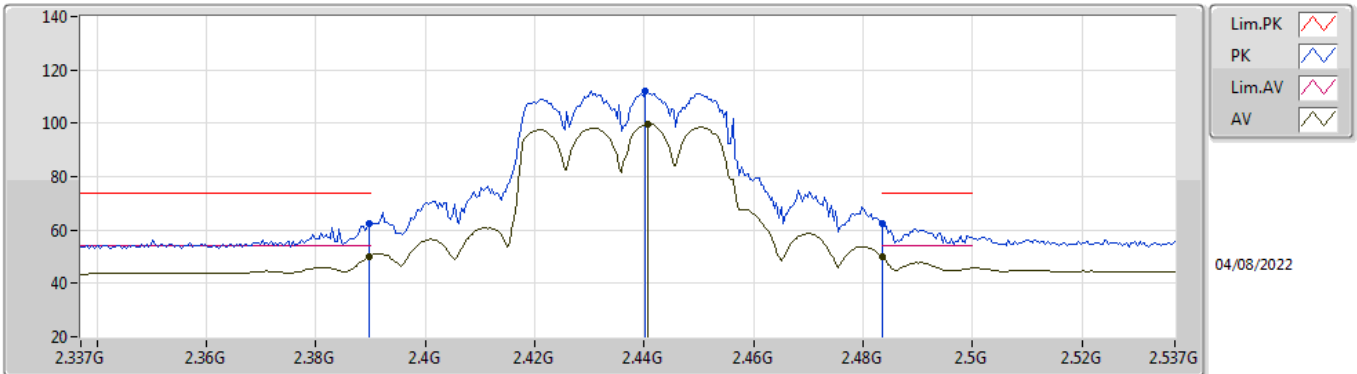


EUT Y_2TX
Setting 19.5
02-F-G-4

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	4.8454G	45.71	74.00	-28.29	38.33	3	Horizontal	346	1.11	-	33.07	5.10	30.79
AV	4.84482G	32.05	54.00	-21.95	24.68	3	Horizontal	346	1.11	-	33.07	5.10	30.80
PK	7.26854G	49.32	74.00	-24.68	38.82	3	Horizontal	356	1.86	-	36.27	6.13	31.90
AV	7.26106G	35.45	54.00	-18.55	24.97	3	Horizontal	356	1.86	-	36.24	6.13	31.89

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

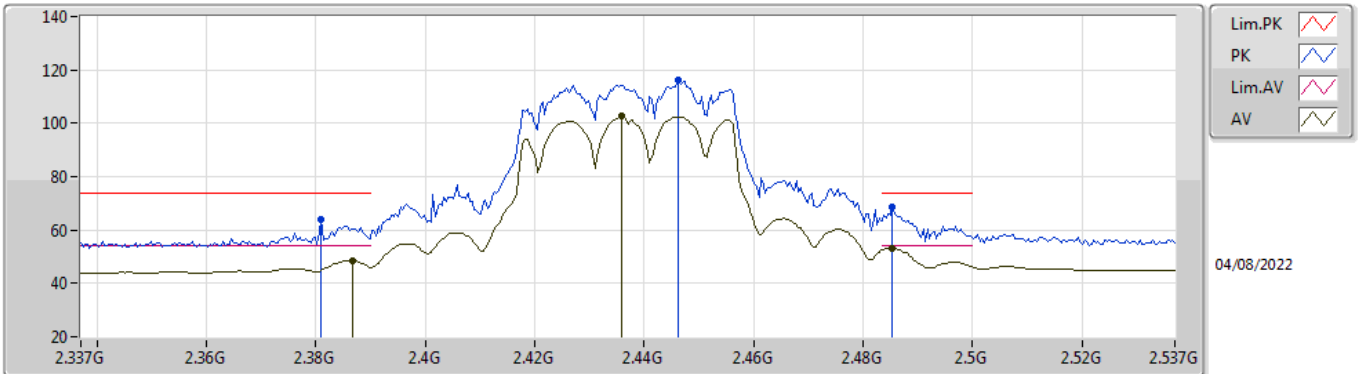


EUT_V_2TX
Setting 19.5
02-F-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	62.53	74.00	-11.47	31.36	3	Vertical	316	1.00	-	28.38	2.79	-
AV	2.3898G	50.16	54.00	-3.84	18.99	3	Vertical	316	1.00	-	28.38	2.79	-
PK	2.4402G	112.27	Inf	-Inf	81.03	3	Vertical	316	1.00	-	28.40	2.84	-
AV	2.4406G	99.80	Inf	-Inf	68.56	3	Vertical	316	1.00	-	28.40	2.84	-
PK	2.4835G	62.58	74.00	-11.42	31.17	3	Vertical	316	1.00	-	28.53	2.88	-
AV	2.4835G	49.92	54.00	-4.08	18.51	3	Vertical	316	1.00	-	28.53	2.88	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

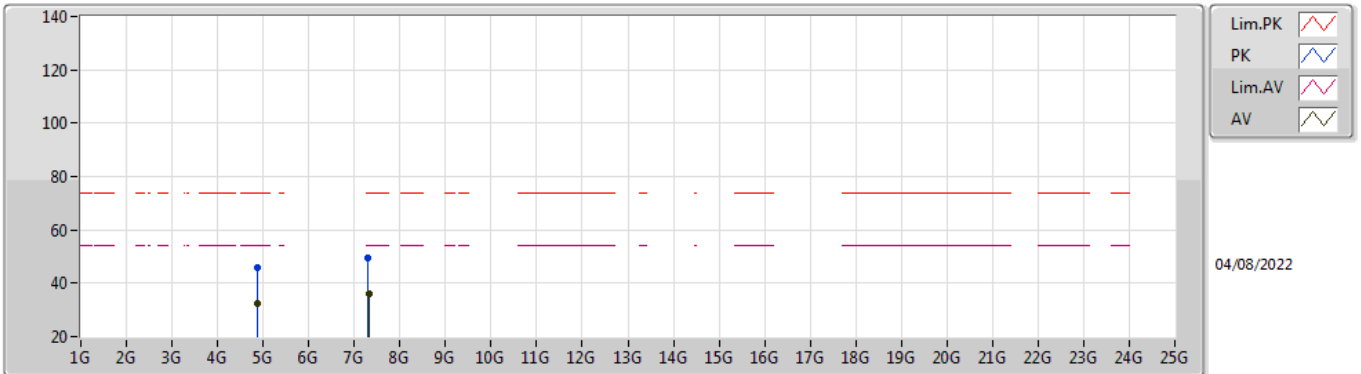


EUT_V_2TX
Setting 19.5
02-F-G-4

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	2.381G	64.06	74.00	-9.94	32.91	3	Horizontal	288	2.05	-	28.36	2.79	-
AV	2.3866G	48.49	54.00	-5.51	17.33	3	Horizontal	288	2.05	-	28.37	2.79	-
PK	2.4462G	115.96	Inf	-Inf	84.71	3	Horizontal	288	2.05	-	28.40	2.85	-
AV	2.4358G	102.51	Inf	-Inf	71.27	3	Horizontal	288	2.05	-	28.40	2.84	-
PK	2.4854G	68.51	74.00	-5.49	37.08	3	Horizontal	288	2.05	-	28.54	2.89	-
AV	2.4854G	53.13	54.00	-0.87	21.70	3	Horizontal	288	2.05	-	28.54	2.89	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

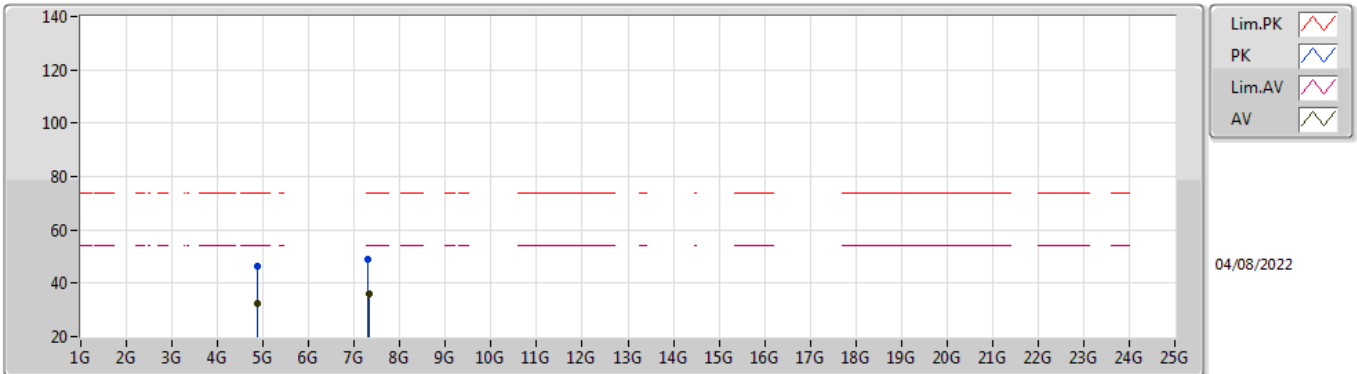


EUT Y_2TX
Setting 19.5
02-F-G-4

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	4.8768G	46.06	74.00	-27.94	38.59	3	Vertical	248	1.68	-	33.15	5.10	30.78
AV	4.8741G	32.18	54.00	-21.82	24.71	3	Vertical	248	1.68	-	33.15	5.10	30.78
PK	7.306G	49.38	74.00	-24.62	38.74	3	Vertical	242	2.05	-	36.41	6.15	31.92
AV	7.31402G	35.96	54.00	-18.04	25.29	3	Vertical	242	2.05	-	36.43	6.16	31.92

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

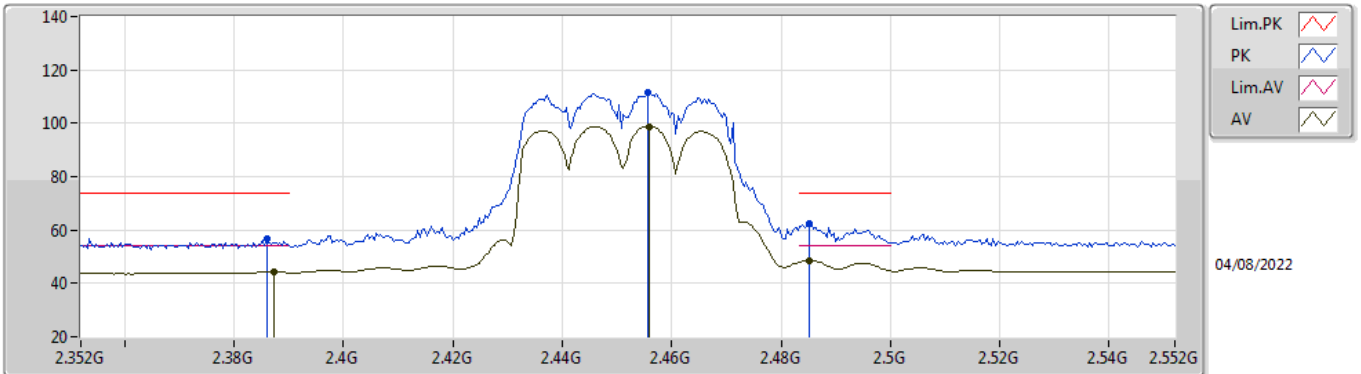


EUT Y_2TX
Setting 19.5
02-F-G-4

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	4.87236G	46.19	74.00	-27.81	38.73	3	Horizontal	354	2.37	-	33.14	5.10	30.78
AV	4.87304G	32.25	54.00	-21.75	24.78	3	Horizontal	354	2.37	-	33.15	5.10	30.78
PK	7.3062G	49.17	74.00	-24.83	38.53	3	Horizontal	310	2.68	-	36.41	6.15	31.92
AV	7.31412G	35.99	54.00	-18.01	25.32	3	Horizontal	310	2.68	-	36.43	6.16	31.92

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

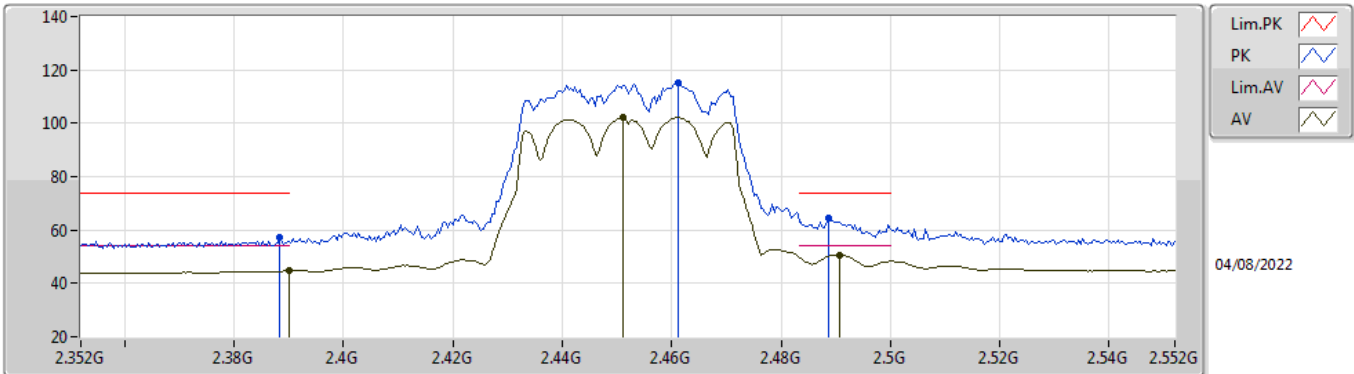


EUT_Y_2TX
Setting 19
02-F-G-4

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	56.72	74.00	-17.28	25.56	3	Vertical	321	1.00	-	28.37	2.79	-
AV	2.3872G	44.28	54.00	-9.72	13.12	3	Vertical	321	1.00	-	28.37	2.79	-
PK	2.4556G	111.66	Inf	-Inf	80.38	3	Vertical	321	1.00	-	28.42	2.86	-
AV	2.456G	98.87	Inf	-Inf	67.59	3	Vertical	321	1.00	-	28.42	2.86	-
PK	2.4852G	62.22	74.00	-11.78	30.79	3	Vertical	321	1.00	-	28.54	2.89	-
AV	2.4852G	48.59	54.00	-5.41	17.16	3	Vertical	321	1.00	-	28.54	2.89	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

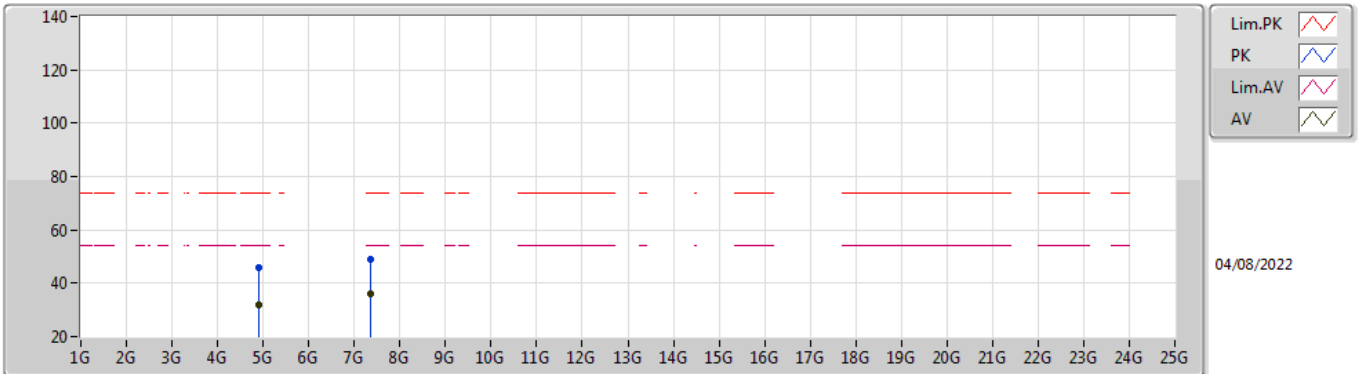


EUT_Y_2TX
Setting 19
02-F-G-4

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	2.3884G	57.43	74.00	-16.57	26.26	3	Horizontal	290	2.05	-	28.38	2.79	-
AV	2.39G	44.68	54.00	-9.32	13.51	3	Horizontal	290	2.05	-	28.38	2.79	-
PK	2.4612G	115.12	Inf	-Inf	83.82	3	Horizontal	290	2.05	-	28.44	2.86	-
AV	2.4512G	102.07	Inf	-Inf	70.82	3	Horizontal	290	2.05	-	28.40	2.85	-
PK	2.4888G	64.37	74.00	-9.63	32.92	3	Horizontal	290	2.05	-	28.56	2.89	-
AV	2.4908G	50.59	54.00	-3.41	19.14	3	Horizontal	290	2.05	-	28.56	2.89	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

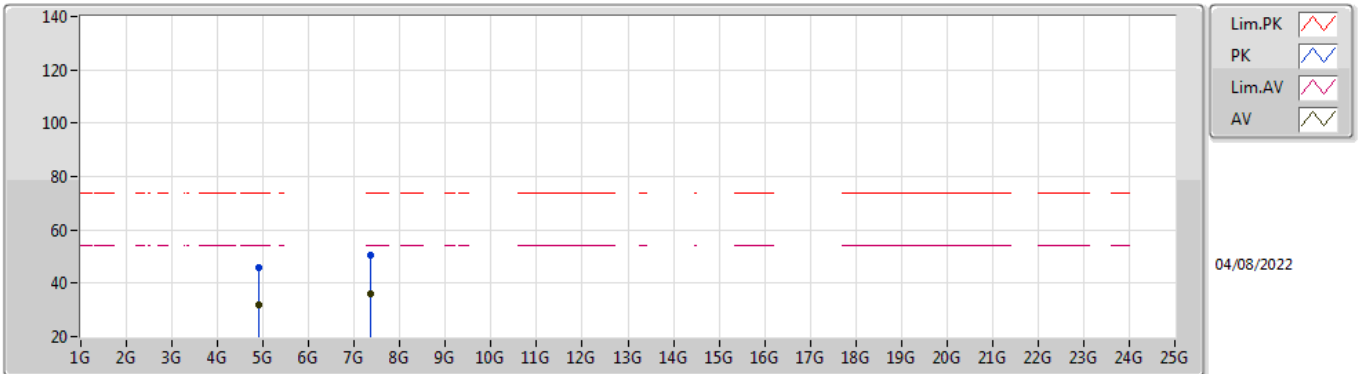


EUT Y_2TX
Setting 19
02-F-G-4

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	4.90096G	45.71	74.00	-28.29	38.18	3	Vertical	98	2.09	-	33.20	5.10	30.77
AV	4.90412G	31.85	54.00	-22.15	24.31	3	Vertical	98	2.09	-	33.21	5.10	30.77
PK	7.35896G	49.20	74.00	-24.80	38.47	3	Vertical	69	2.91	-	36.50	6.18	31.95
AV	7.35122G	36.08	54.00	-17.92	25.34	3	Vertical	69	2.91	-	36.50	6.18	31.94

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



EUT Y_2TX
Setting 19
02-F-G-4

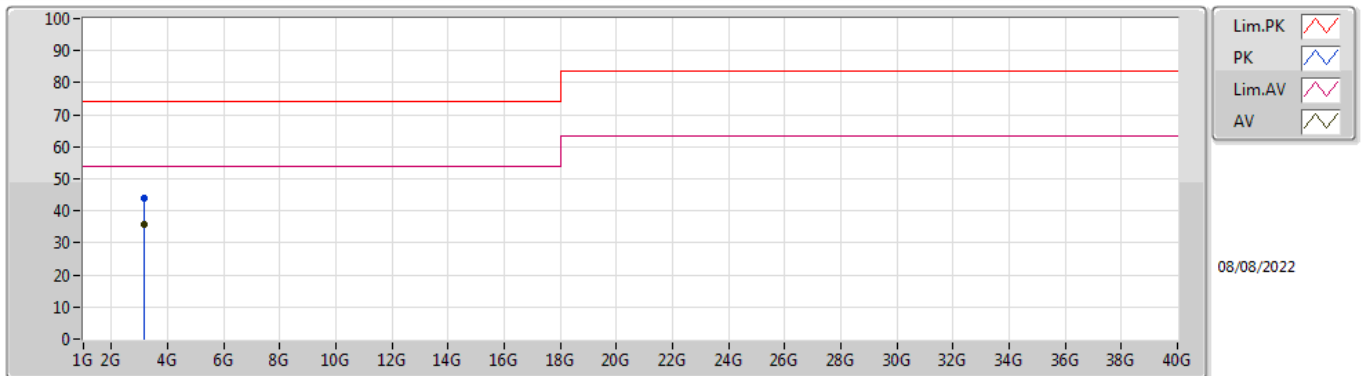
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90708G	45.70	74.00	-28.30	38.16	3	Horizontal	22	1.77	-	33.21	5.10	30.77
AV	4.90268G	31.81	54.00	-22.19	24.27	3	Horizontal	22	1.77	-	33.21	5.10	30.77
PK	7.35708G	50.67	74.00	-23.33	39.94	3	Horizontal	337	1.74	-	36.50	6.18	31.95
AV	7.35366G	35.98	54.00	-18.02	25.25	3	Horizontal	337	1.74	-	36.50	6.18	31.95



Summary

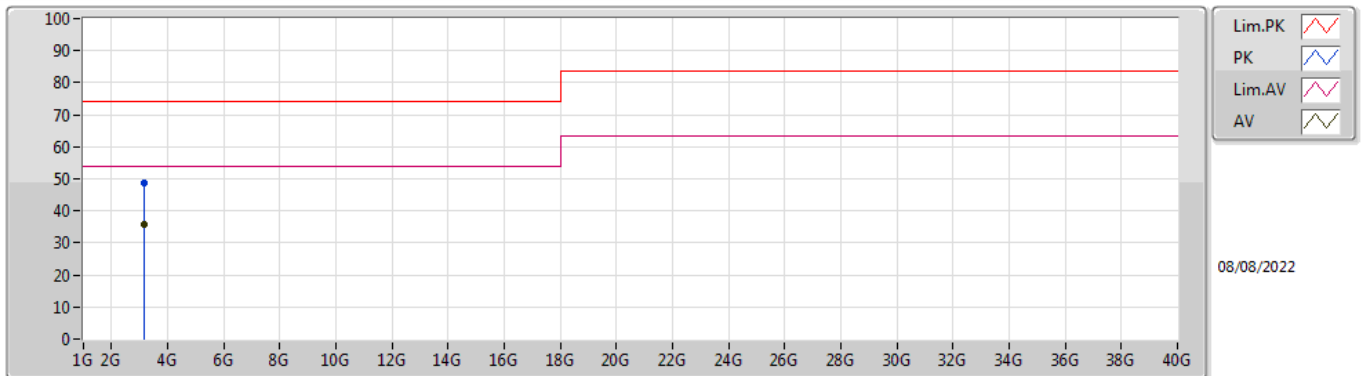
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	3.18763G	35.75	54.00	-18.25	Horizontal

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	3.18749G	44.12	74.00	-29.88	0.08	3	Vertical	180	1.10	-	44.04	29.03	4.39	33.34
AV	3.18765G	35.66	54.00	-18.34	0.07	3	Vertical	180	1.10	"Worst"	35.59	29.02	4.39	33.34

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	3.18752G	48.53	74.00	-25.47	0.07	3	Horizontal	324	1.00	-	48.46	29.02	4.39	33.34
AV	3.18763G	35.75	54.00	-18.25	0.07	3	Horizontal	324	1.00	"Worst"	35.68	29.02	4.39	33.34