

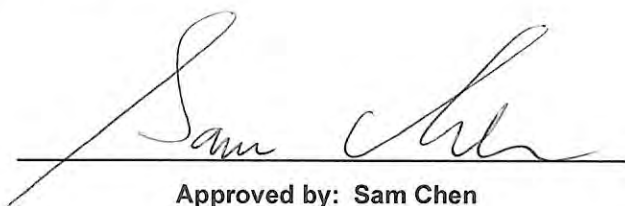


RADIO TEST REPORT

FCC ID : UDX-600107010
Equipment : SMART Camera
Brand Name : CISCO
Model Name : MV63X-HW, MV63-HW
Applicant : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Standard : 47 CFR FCC Part 15.247

The product was received on Sep. 14, 2022, and testing was started from Sep. 21, 2022 and completed on Oct. 11, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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



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



Summary of Test Result

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

Declaration of Conformity:

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:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen**Report Producer: Wendy Pan**

1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	VHT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX
2.4-2.4835GHz	VHT40	40	1TX

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.
- BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)					
	WLAN	Bluetooth					WLAN 2.4GHz	WLAN 5GHz				Bluetooth
								UNII 1	UNII 2A	UNII 2C	UNII 3	
1	1	-	SERCOMM	HC910	PIFA Antenna	I-PEX	3.38	5.50	5.50	4.79	5.17	-
2	2	1	SERCOMM	HC910	PIFA Antenna	I-PEX	2.54	5.33	5.33	6.64	5.68	2.54

Note: The above information was declared by manufacturer.

For 2.4GHz function:**For IEEE 802.11b/g/n/VHT mode (1TX/1RX):**

The EUT supports the antenna with TX and RX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.

The Port 1 generated the worst case, so it was selected to test and record in the report.

For 5GHz function:**For IEEE 802.11a/n/ac mode (1TX/1RX):****For UNII 1 and UNII 2A:**

The EUT supports the antenna with TX and RX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.

The Port 1 generated the worst case, so it was selected to test and record in the report.

For UNII2C and UNII 3:

The EUT supports the antenna with TX and RX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.

The Port 2 generated the worst case, so it was selected to test and record in the report.

For Bluetooth function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.99	0.04	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
VHT20	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
VHT40	0.948	0.23	937.5u	3k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	QRCT (Version :4.0.72.1)			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

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

Brand Name	Model Name	EUT	Memory Capacities
CISCO	MV63X-HW	EUT 1	1TB
	MV63-HW	EUT 2	256GB

Note 1: From the above EUT 1 for all test items and EUT 2 for Emissions in Restricted Frequency Bands below 1GHz were selected as representative EUT for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.



1.1.6 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 414788 D01 v01r01

1.2 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Jay Lo	23.4-23.6 / 58-66	Sep. 23, 2022 ~ Sep. 26, 2022
Radiated <1GHz	03CH05-CB	Simmon Cheng	23.4~24.4 / 55~60	Sep. 28, 2022~ Sep. 29, 2022
Radiated >1GHz	03CH03-CB	Simmon Cheng	22.9~23.8 / 56~57	Sep. 21, 2022~ Sep. 24, 2022
Radiated Co-location	03CH05-CB	Simmon Cheng	24.9~25.2 / 61~63	Oct. 11, 2022
AC Conduction	CO02-CB	Joe Chu	22~23 / 59~60	Sep. 29, 2022

1.3 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

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	17.5
2417MHz	
2437MHz	18
2457MHz	
2462MHz	18.5
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	18
2417MHz	21
2437MHz	23.5
2457MHz	22
2462MHz	19.5
VHT20_Nss1,(MCS0)_1TX	-
2412MHz	17.5
2417MHz	21
2437MHz	23.5
2457MHz	22
2462MHz	19
VHT40_Nss1,(MCS0)_1TX	-
2422MHz	14
2427MHz	15
2437MHz	18
2452MHz	15.5

Note:

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

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 1 connected via Ethernet - Day mode + PoE 1
2	EUT 1 connected via Ethernet - Night mode + PoE 1
Mode 2 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 ~ 6 will follow this same test mode.	
3	EUT 1 connected via WLAN 2.4GHz - Night mode + PoE 1
4	EUT 1 connected via WLAN 2.4GHz - Night mode + PoE 2
5	EUT 1 connected via WLAN 5GHz - Night mode + PoE 1
6	EUT 1 connected via WLAN 5GHz - Night mode + PoE 2
For operating mode 2 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
Test Mode	EUT 1

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 1 at Z axis connected via Ethernet - Day mode + PoE 1
2	EUT 1 at Y axis connected via Ethernet - Day mode + PoE 1
3	EUT 1 at X axis connected via Ethernet - Day mode + PoE 1
Mode 2 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT 1 at Y axis connected via Ethernet - Night mode + PoE 1
Mode 4 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5 ~ 8 will follow this same test mode.	
5	EUT 1 at Y axis connected via WLAN 2.4GHz - Night mode + PoE 1
6	EUT 1 at Y axis connected via WLAN 2.4GHz - Night mode + PoE 2
7	EUT 1 at Y axis connected via WLAN 5GHz - Night mode + PoE 1
8	EUT 1 at Y axis connected via WLAN 5GHz - Night mode + PoE 2
Mode 4 has been evaluated to be the worst case among Mode 1~8, thus measurement for Mode 9 will follow this same test mode.	
9	EUT 2 at Y axis connected via Ethernet - Night mode + PoE 1
For operating mode 9 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX The EUT was performed at X axis, Y axis and Z axis position and the worst case was found at X axis. So the measurement will follow this same test configuration.
1	EUT 1 at X 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
1	EUT 1 at Y axis + Bluetooth+WLAN 2.4GHz
2	EUT 1 at Y axis + Bluetooth+WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1 + Bluetooth+WLAN 2.4GHz
2	EUT 1 + Bluetooth+WLAN 5GHz
Refer to Sporton Test Report No.: FA291332 for Co-location RF Exposure Evaluation.	

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

PoEs information as below:

Power	Brand	Model
PoE 1	PHIHONG	POEA33U-1ATE
PoE 2	CISCO	MA-PWR-MV-LV

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Wall Bracket*4



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 1	PHIHONG	POEA33U-1ATE	N/A
B	LAN NB	DELL	E6430	N/A
C	Smart phone	Samsung	Galaxy J2	N/A

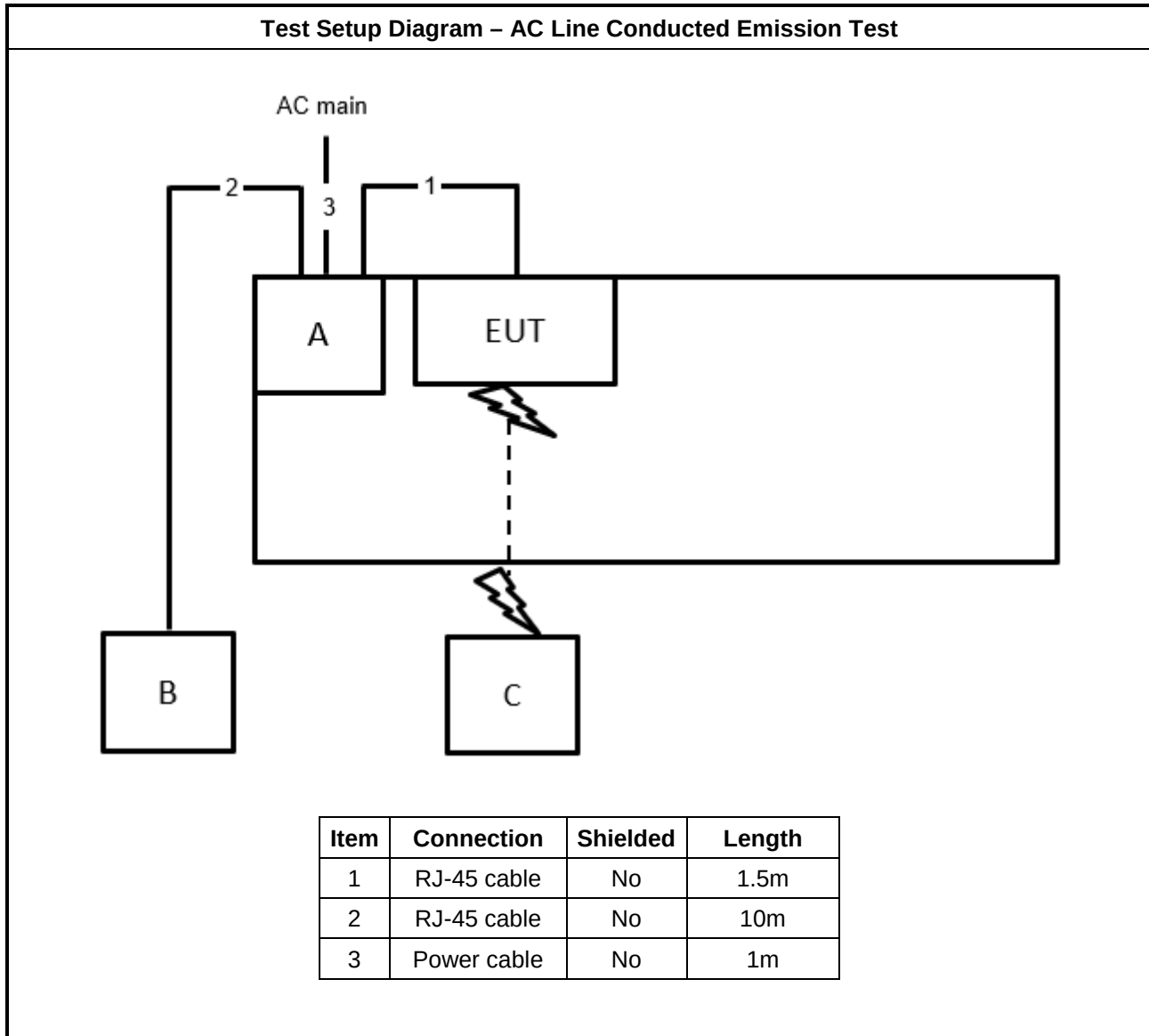
For Radiated (below 1GHz):

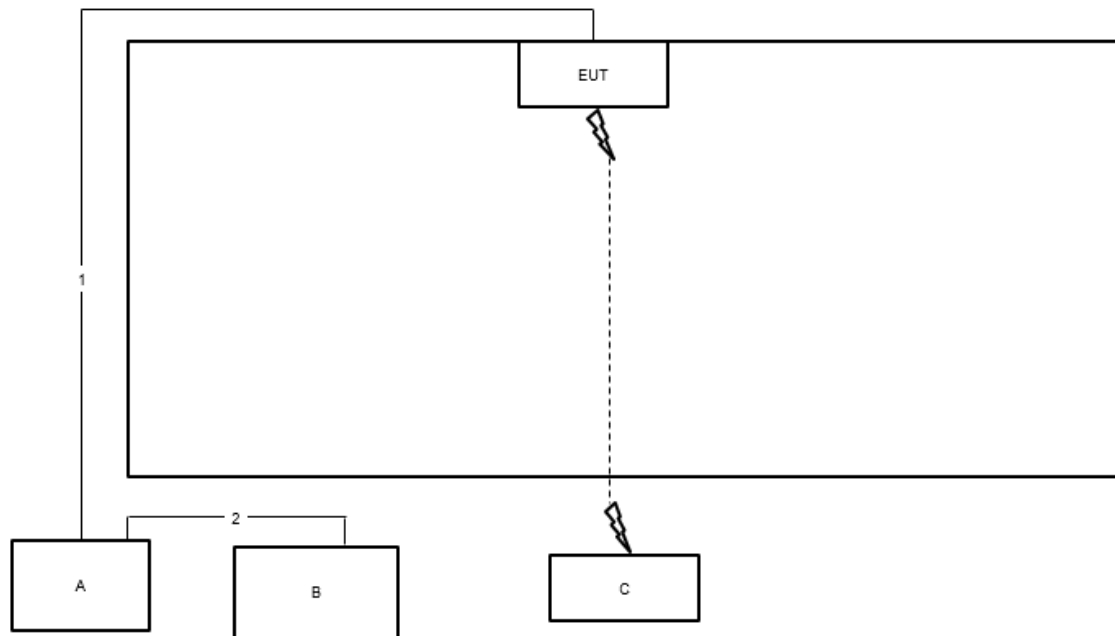
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 1	PHIHONG	POEA33U-1ATE	N/A
B	Notebook	Lenovo	L440	N/A
C	iPhone 12	Apple	A2403	BCG-E3544A

For Radiated (above 1GHz) and RF Conducted:

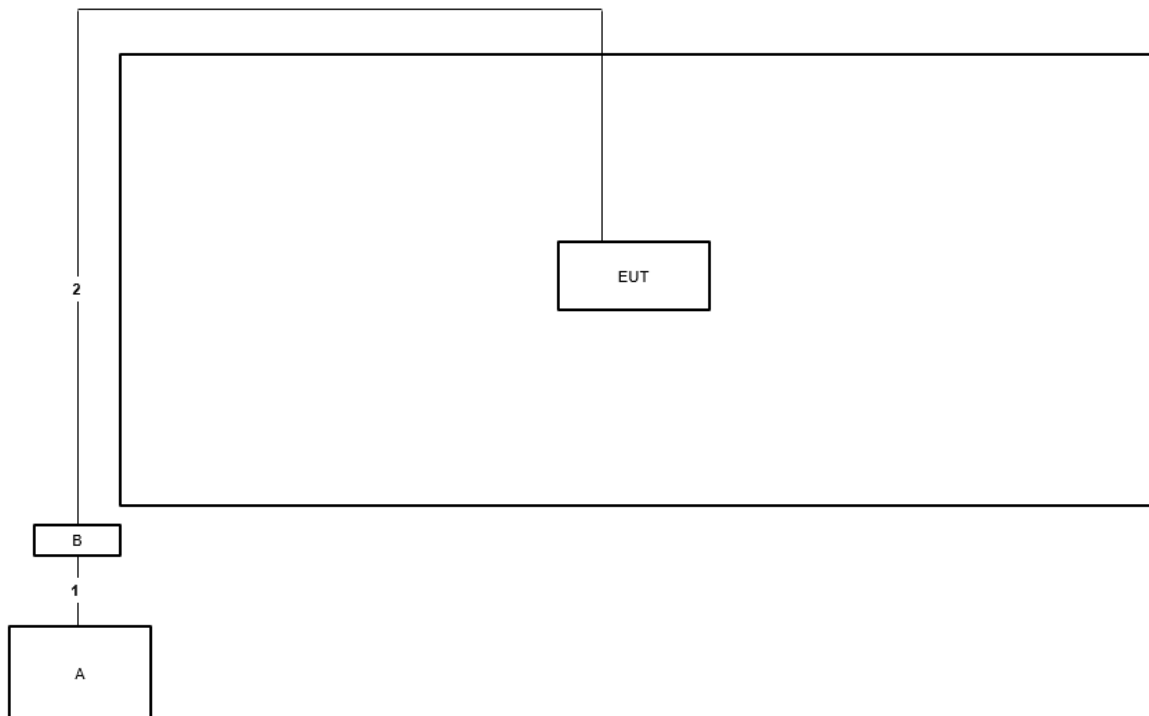
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	Lenovo	L440	N/A
B	PoE 1	PHIHONG	PORA33U-1ATE	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


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

Test Setup Diagram - Radiated Test > 1GHz


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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

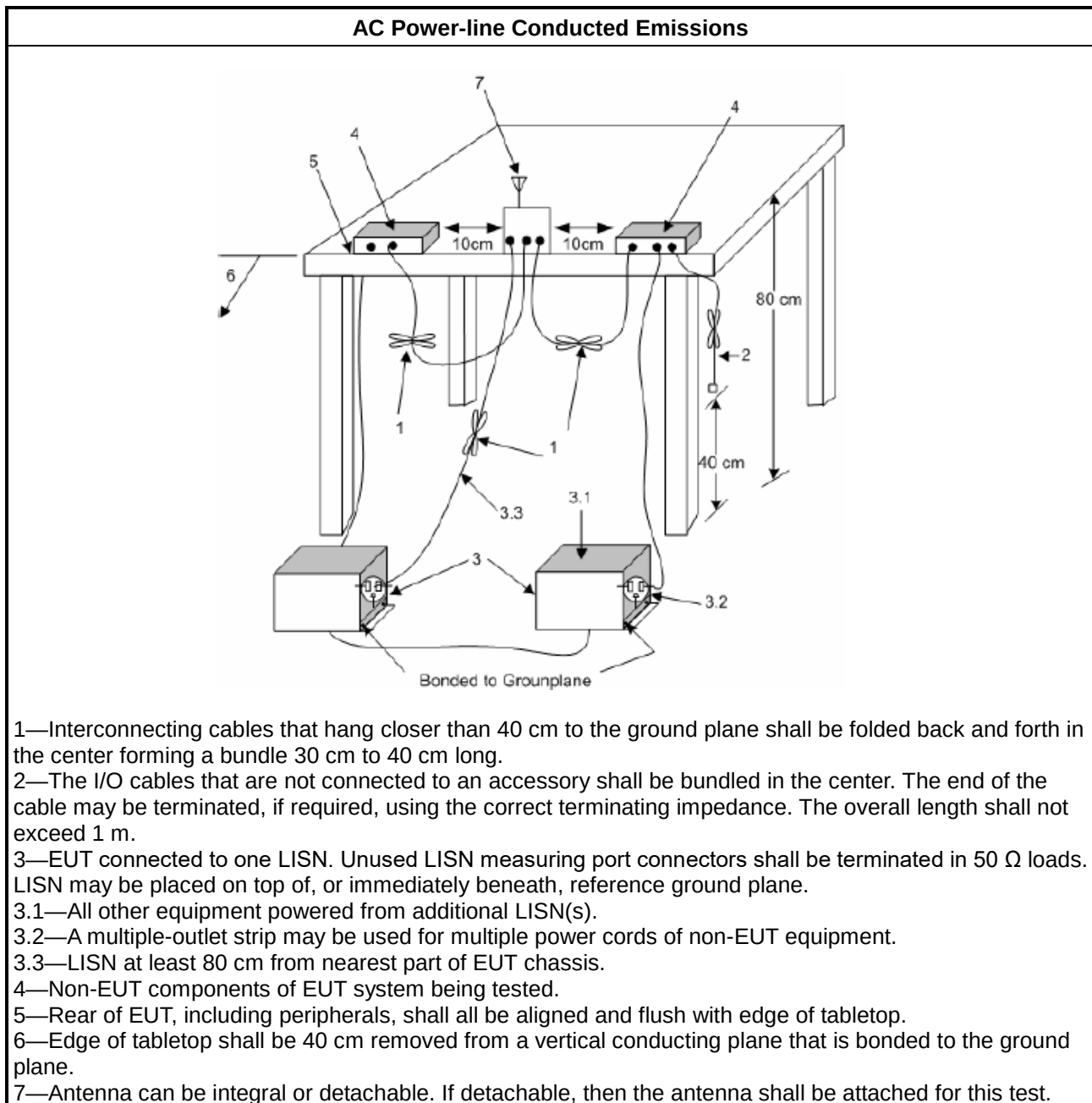
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

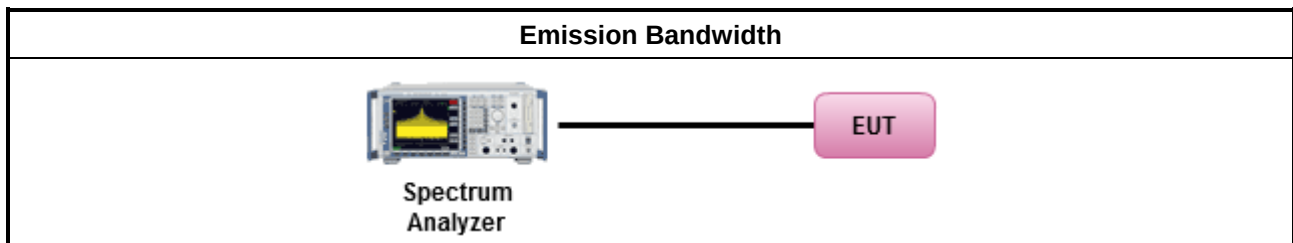
3.2.2 Measuring Instruments

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.	

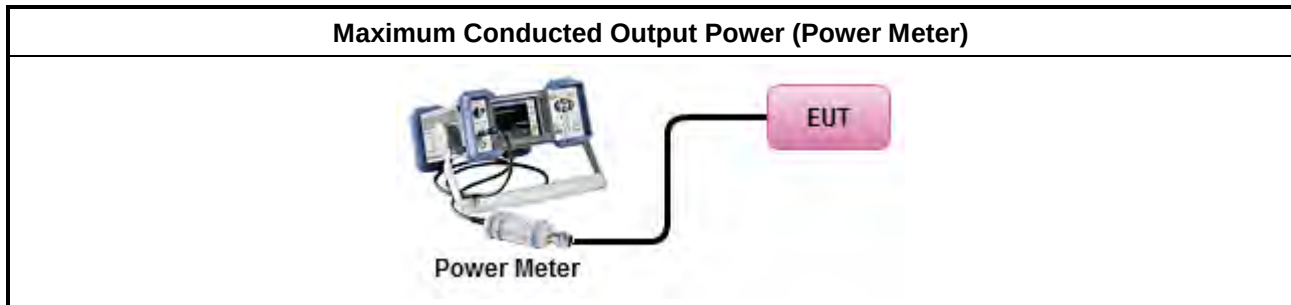
3.3.2 Measuring Instruments

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

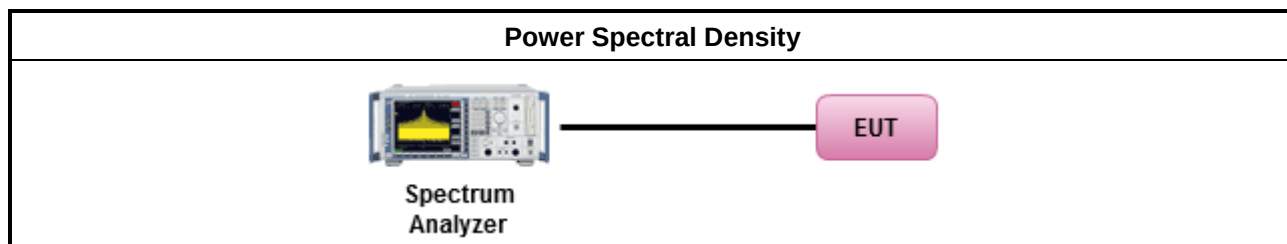
3.4.2 Measuring Instruments

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.	

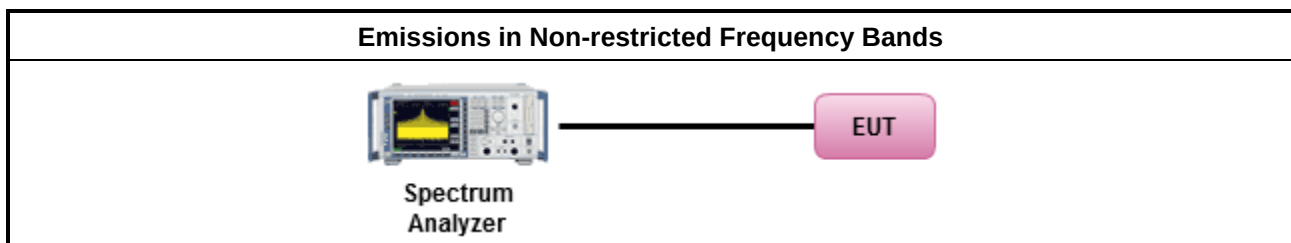
3.5.2 Measuring Instruments

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

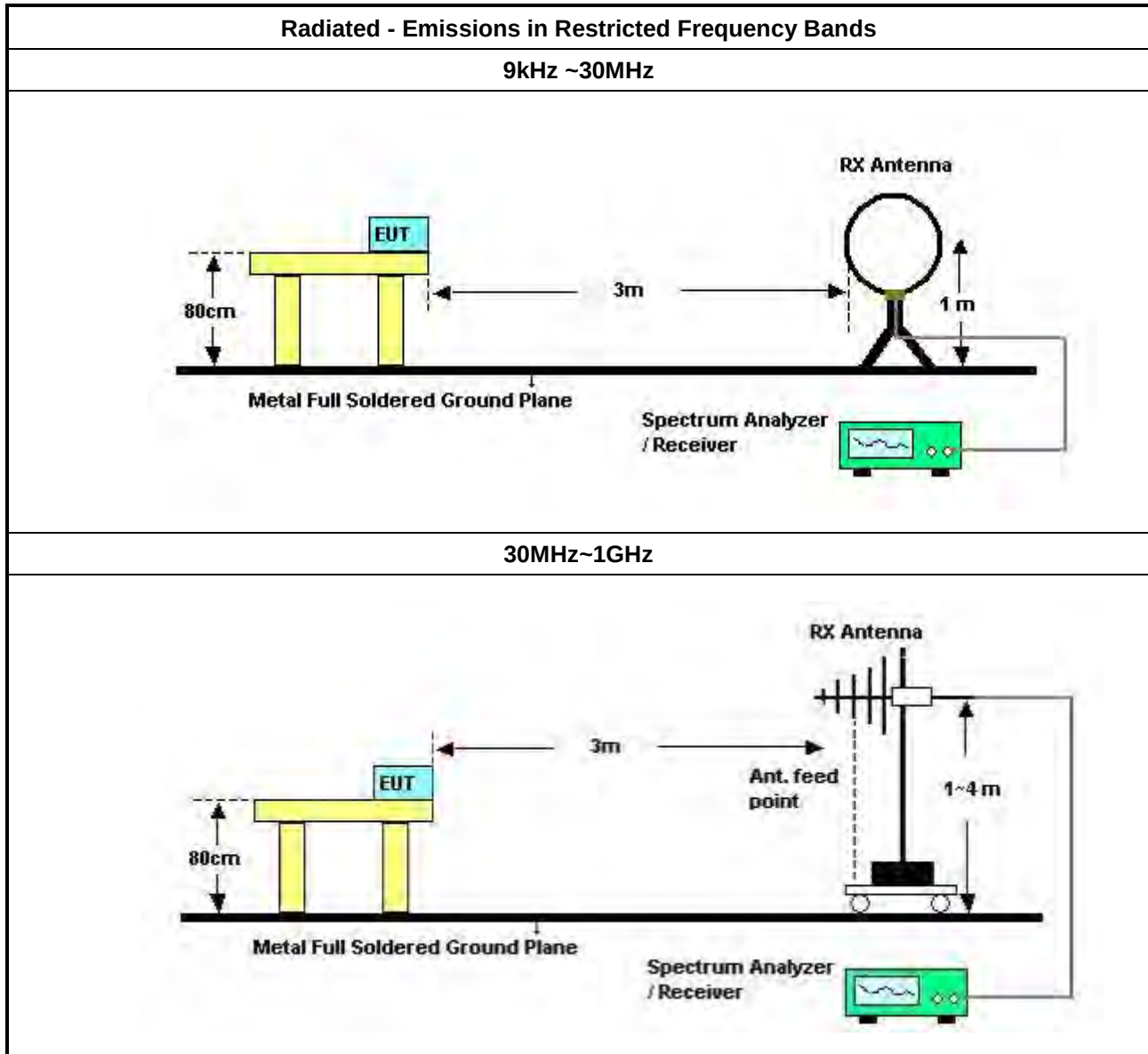
Refer a test equipment and calibration data table in this test report.

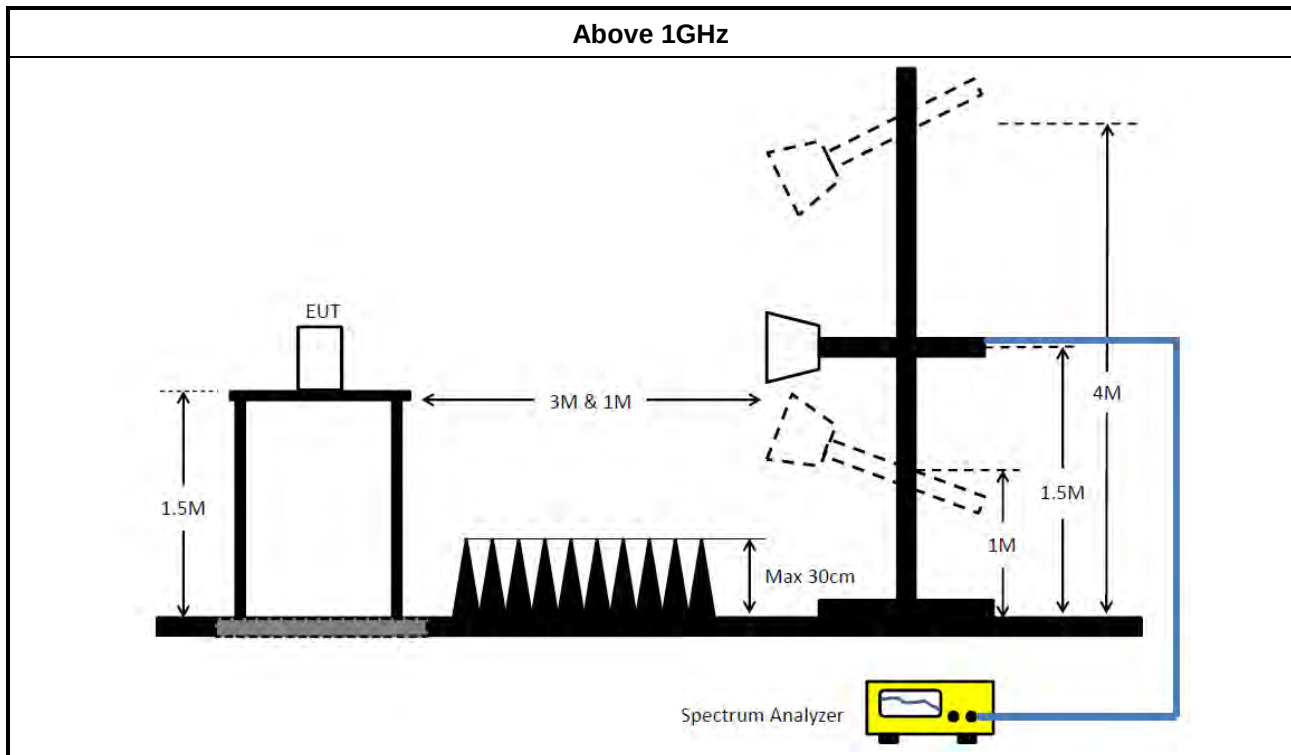


3.6.3 Test Procedures

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
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Jan. 07, 2022	Jan. 06, 2023	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 22, 2021	Dec. 21, 2022	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 06, 2022	May 05, 2023	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 18, 2022	Mar. 17, 2023	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 19, 2021	Oct. 18, 2022	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 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)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 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)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 05, 2022	May 04, 2023	Radiation (03CH03-CB)
Horn Antenna	ETS-Lindgren	3115	6821	750MHz~18GHz	Jan. 21, 2022	Jan. 20, 2023	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 10, 2022	Jun. 09, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1531344	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1728002	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	SWI-03-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

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



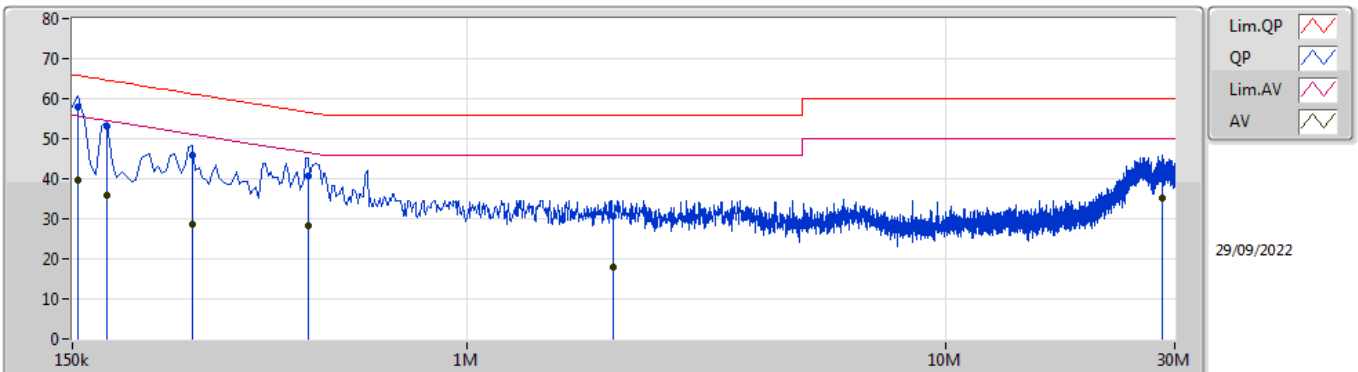
Conducted Emissions at Powerline

Appendix A

Summary

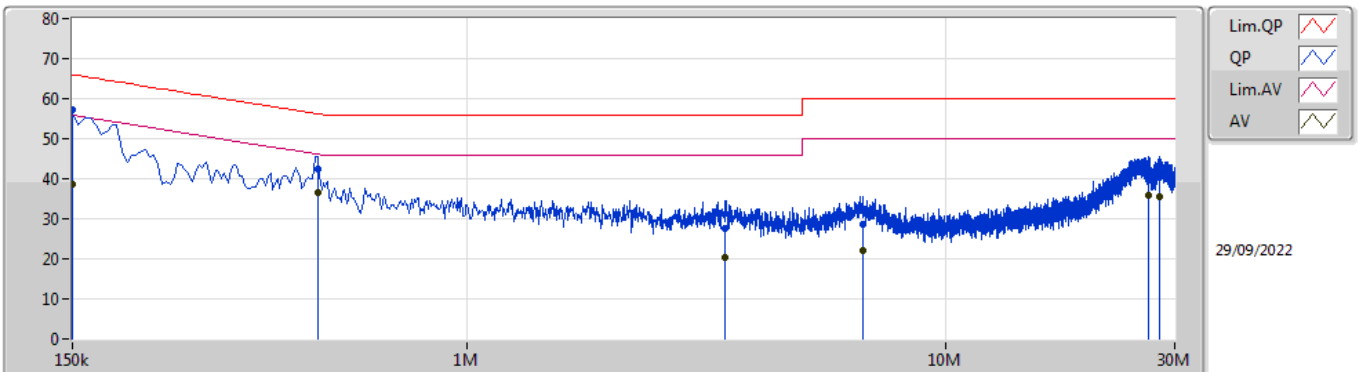
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	154.5k	58.02	65.75	-7.73	Line

Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.5k	58.02	65.75	-7.73	10.24	Line	"Worst"	47.78	0.12	0.02	10.10			
AV	154.5k	39.67	55.75	-16.08	10.24	Line	-	29.43	0.12	0.02	10.10			
QP	177k	53.12	64.62	-11.50	10.22	Line	-	42.90	0.12	0.02	10.08			
AV	177k	35.98	54.62	-18.64	10.22	Line	-	25.76	0.12	0.02	10.08			
QP	267k	45.81	61.20	-15.39	10.22	Line	-	35.59	0.12	0.02	10.08			
AV	267k	28.78	51.20	-22.42	10.22	Line	-	18.56	0.12	0.02	10.08			
QP	465k	40.60	56.61	-16.01	10.25	Line	-	30.35	0.12	0.02	10.11			
AV	465k	28.21	46.61	-18.40	10.25	Line	-	17.96	0.12	0.02	10.11			
QP	2.018M	30.67	56.00	-25.33	10.37	Line	-	20.30	0.17	0.05	10.15			
AV	2.018M	17.89	46.00	-28.11	10.37	Line	-	7.52	0.17	0.05	10.15			
QP	28.266M	41.71	60.00	-18.29	10.87	Line	-	30.84	0.41	0.23	10.23			
AV	28.266M	35.21	50.00	-14.79	10.87	Line	-	24.34	0.41	0.23	10.23			

Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	57.25	66.00	-8.75	10.29	Neutral	"Worst"	46.96	0.16	0.02	10.11			
AV	150k	38.74	56.00	-17.26	10.29	Neutral	-	28.45	0.16	0.02	10.11			
QP	487.5k	42.53	56.21	-13.68	10.30	Neutral	-	32.23	0.16	0.02	10.12			
AV	487.5k	36.61	46.21	-9.60	10.30	Neutral	-	26.31	0.16	0.02	10.12			
QP	3.462M	27.55	56.00	-28.45	10.46	Neutral	-	17.09	0.21	0.07	10.18			
AV	3.462M	20.49	46.00	-25.51	10.46	Neutral	-	10.03	0.21	0.07	10.18			
QP	6.707M	28.69	60.00	-31.31	10.52	Neutral	-	18.17	0.26	0.07	10.19			
AV	6.707M	22.15	50.00	-27.85	10.52	Neutral	-	11.63	0.26	0.07	10.19			
QP	26.48M	42.06	60.00	-17.94	10.80	Neutral	-	31.26	0.36	0.21	10.23			
AV	26.48M	35.76	50.00	-14.24	10.80	Neutral	-	24.96	0.36	0.21	10.23			
QP	27.951M	41.81	60.00	-18.19	10.82	Neutral	-	30.99	0.37	0.22	10.23			
AV	27.951M	35.45	50.00	-14.55	10.82	Neutral	-	24.63	0.37	0.22	10.23			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	9.025M	13.886M	13M9G1D	8.5M	13.842M
802.11g_Nss1,(6Mbps)_1TX	16.025M	18.456M	18M5D1D	15.725M	16.734M
VHT20_Nss1,(MCS0)_1TX	16.5M	19.033M	19M0D1D	15.05M	17.79M
VHT40_Nss1,(MCS0)_1TX	35.7M	36.432M	36M4D1D	35.7M	36.368M

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

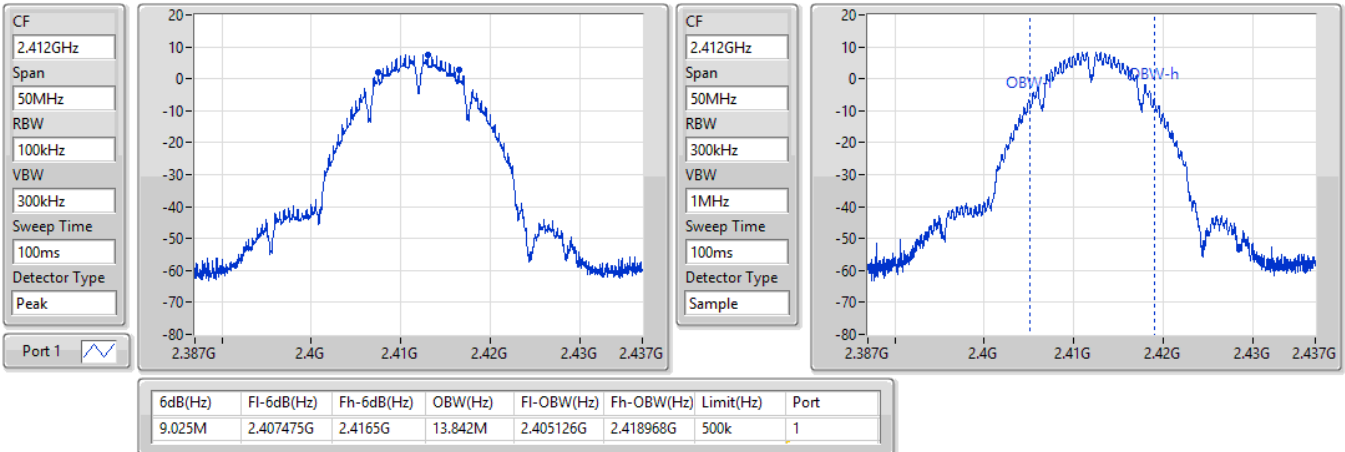
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	9.025M	13.842M
2437MHz	Pass	500k	8.5M	13.858M
2462MHz	Pass	500k	8.525M	13.886M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16M	16.734M
2437MHz	Pass	500k	16.025M	18.456M
2462MHz	Pass	500k	15.725M	16.755M
VHT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	15.05M	17.79M
2437MHz	Pass	500k	15.425M	19.033M
2462MHz	Pass	500k	16.5M	17.861M
VHT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	35.7M	36.375M
2437MHz	Pass	500k	35.7M	36.432M
2452MHz	Pass	500k	35.7M	36.368M

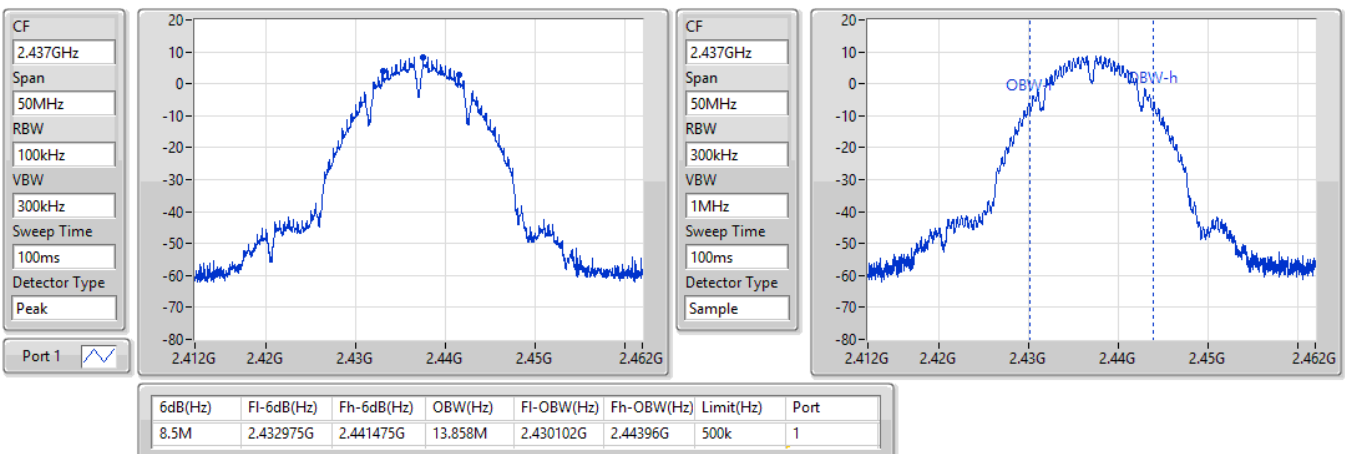
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

24/09/2022


802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

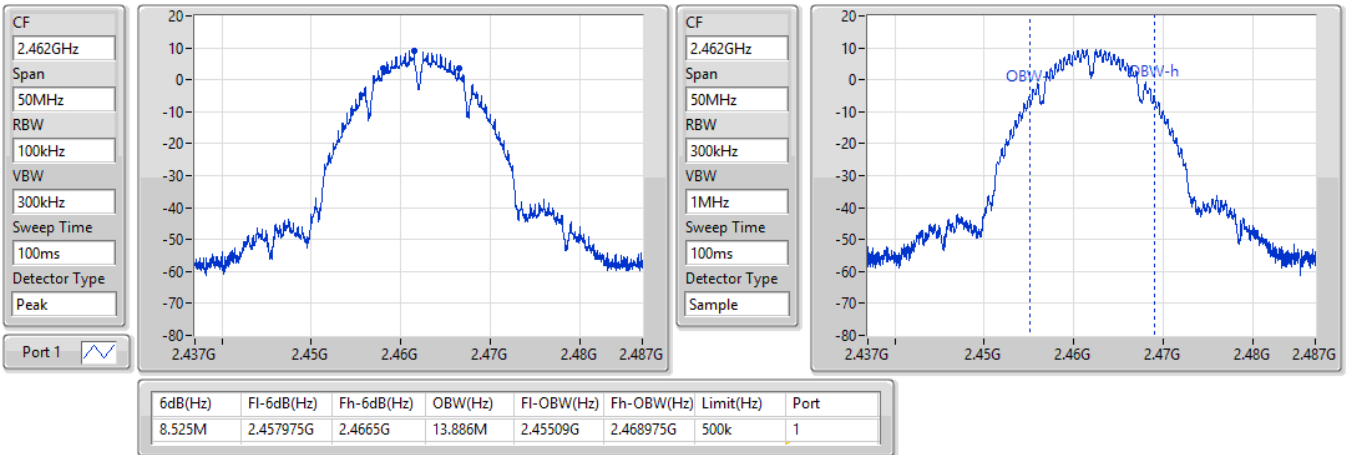
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802.11b_Nss1,(1Mbps)_1TX

EBW
2462MHz

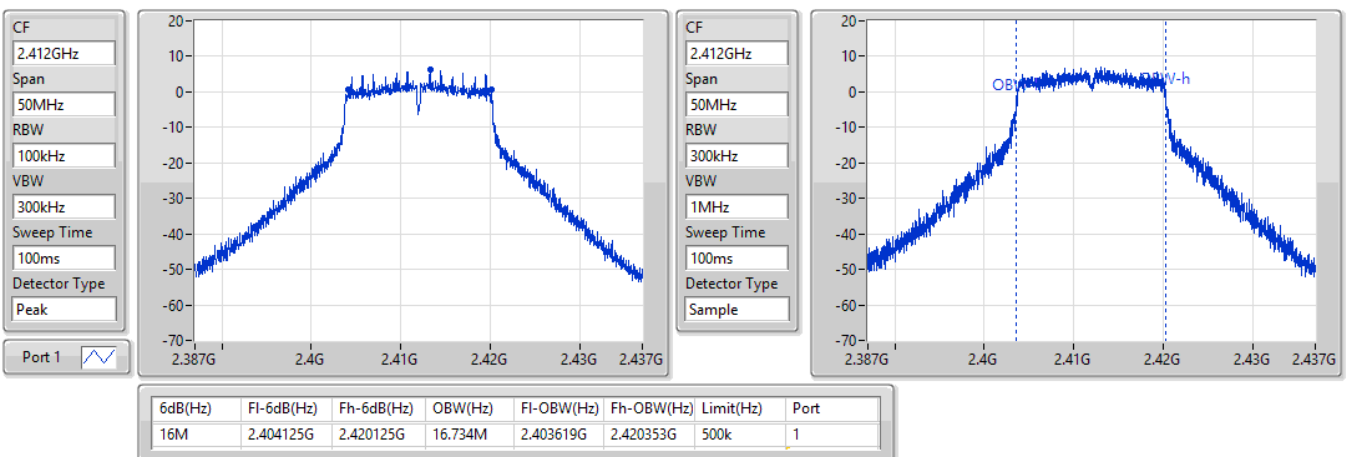
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802.11g_Nss1,(6Mbps)_1TX

EBW
2412MHz

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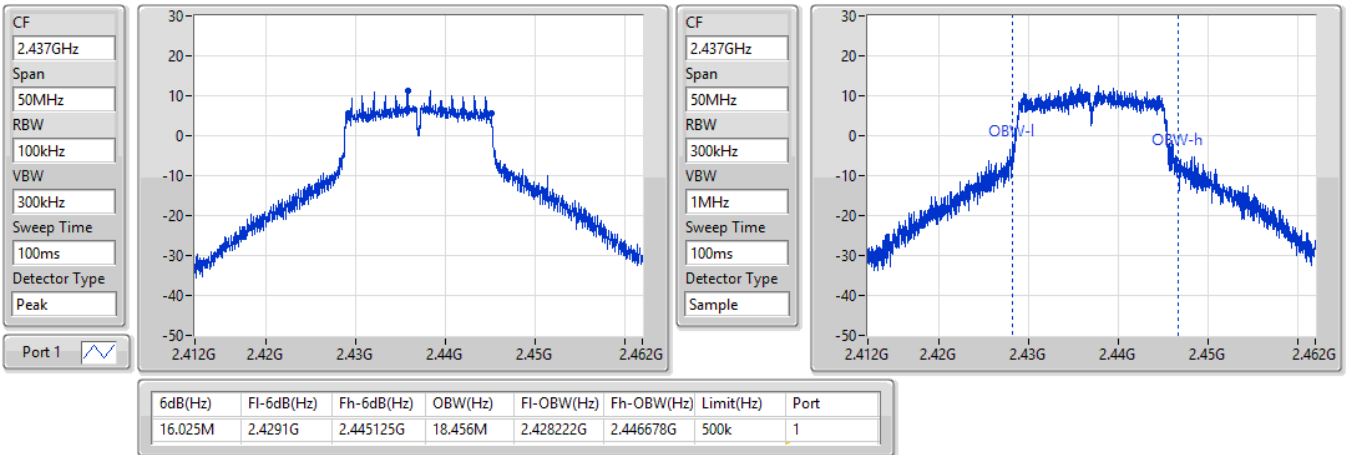


802.11g_Nss1,(6Mbps)_1TX

EBW

2437MHz

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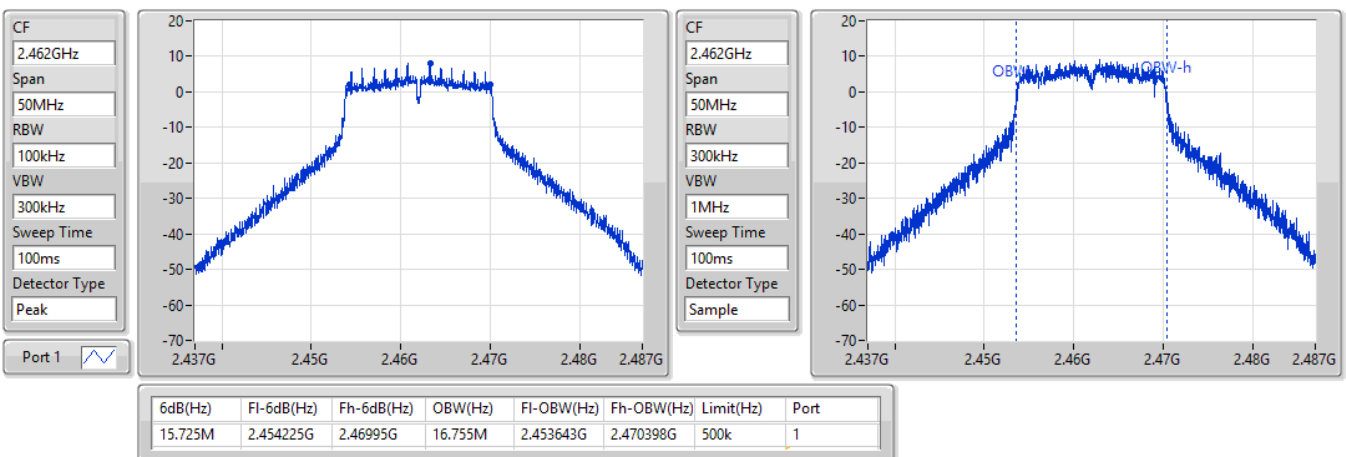


802.11g_Nss1,(6Mbps)_1TX

EBW

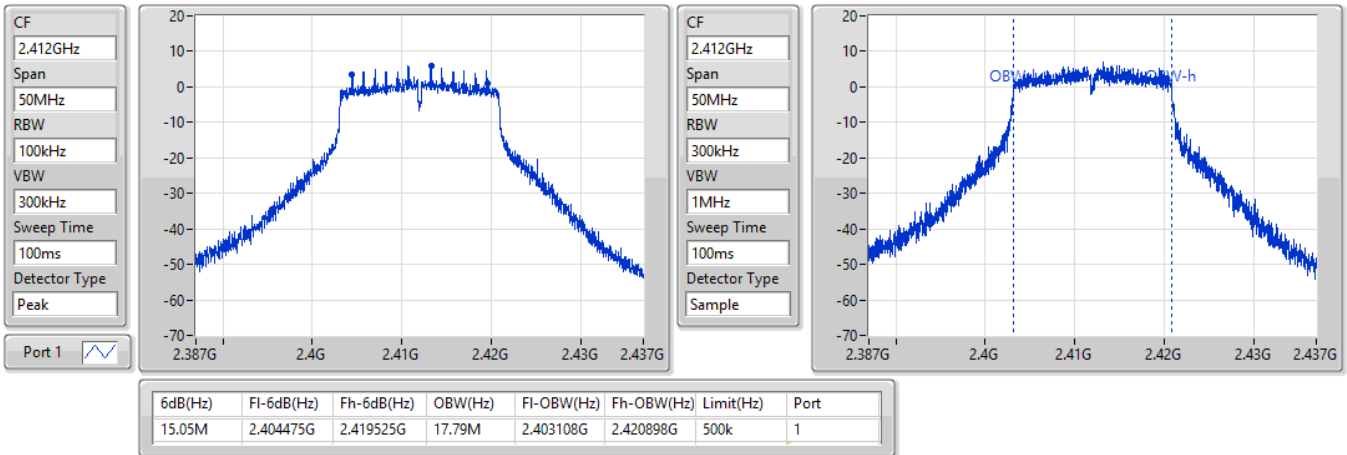
2462MHz

24/09/2022

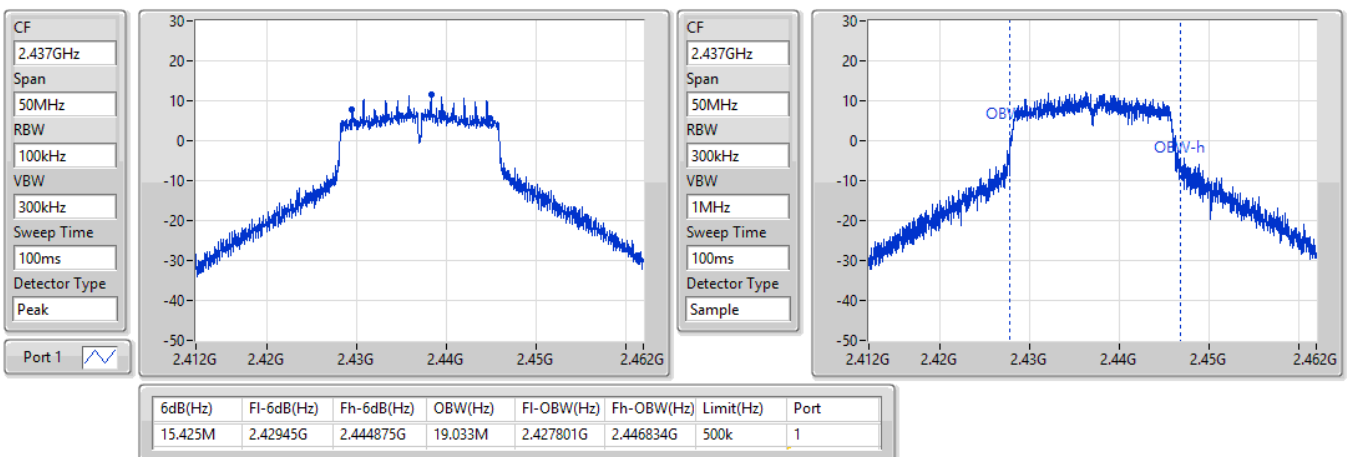


VHT20_Nss1,(MCS0)_1TX
EBW
2412MHz

24/09/2022


VHT20_Nss1,(MCS0)_1TX
EBW
2437MHz

24/09/2022

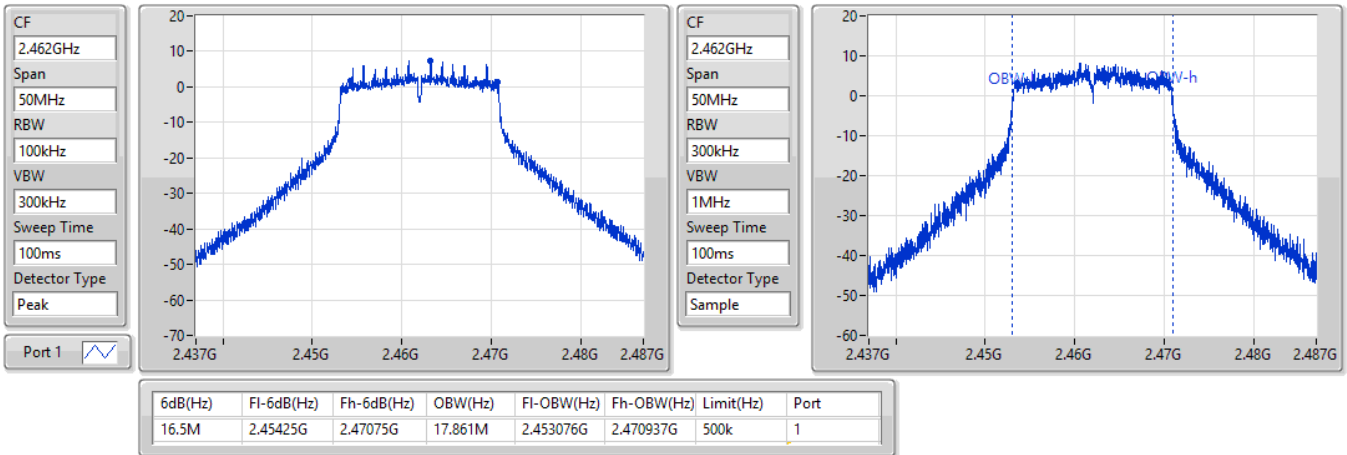


VHT20_Nss1,(MCS0)_1TX

EBW

2462MHz

24/09/2022

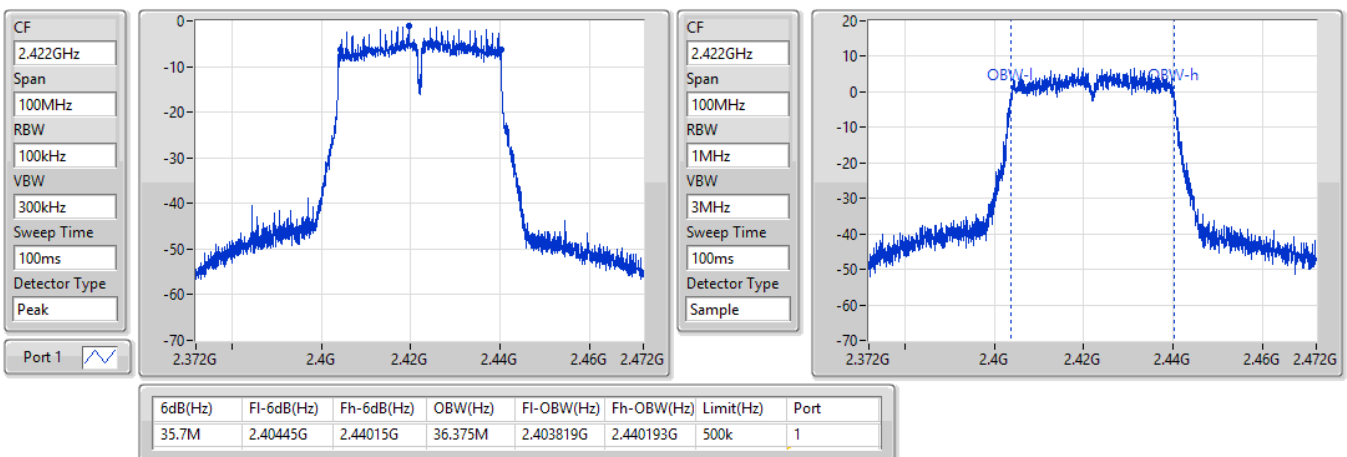


VHT40_Nss1,(MCS0)_1TX

EBW

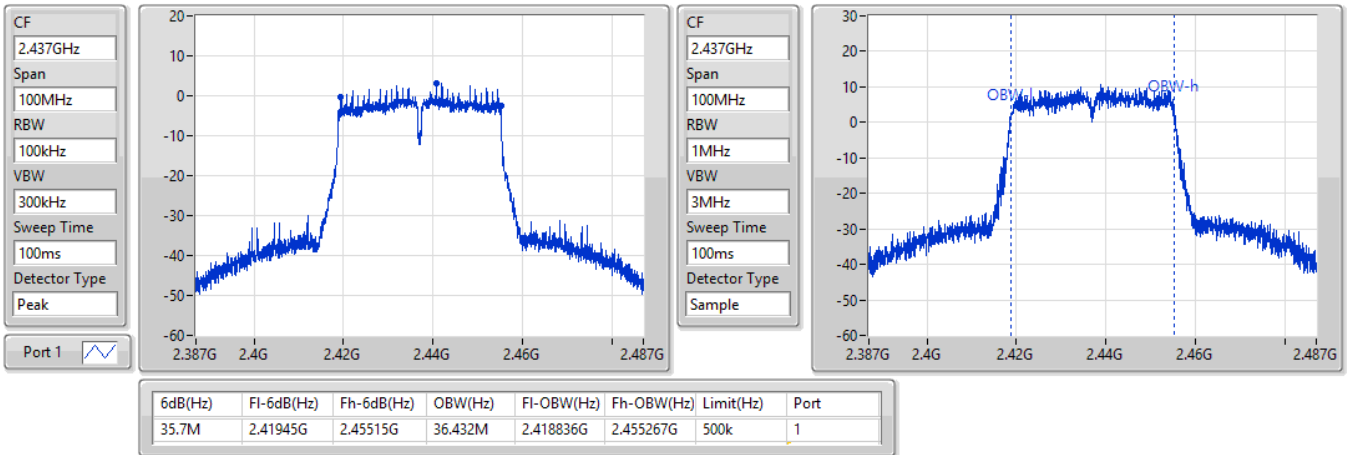
2422MHz

24/09/2022

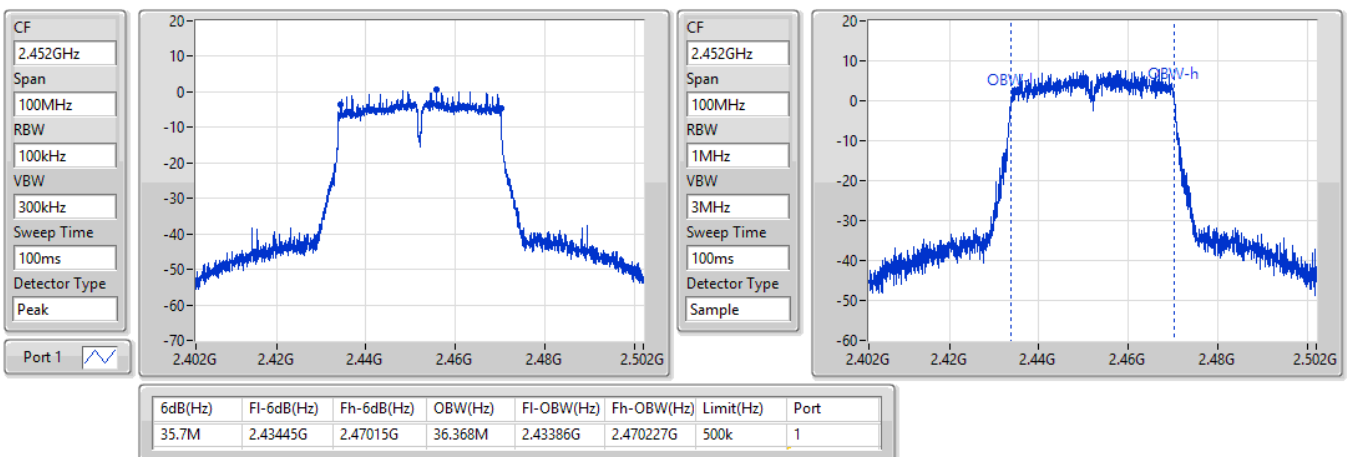


VHT40_Nss1,(MCS0)_1TX
EBW
2437MHz

24/09/2022


VHT40_Nss1,(MCS0)_1TX
EBW
2452MHz

24/09/2022





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	18.09	0.06442
802.11g_Nss1,(6Mbps)_1TX	21.51	0.14158
VHT20_Nss1,(MCS0)_1TX	21.46	0.13996
VHT40_Nss1,(MCS0)_1TX	16.79	0.04775

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.38	17.05	17.05	30.00
2437MHz	Pass	3.38	17.27	17.27	30.00
2462MHz	Pass	3.38	18.09	18.09	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.38	16.64	16.64	30.00
2417MHz	Pass	3.38	19.64	19.64	30.00
2437MHz	Pass	3.38	21.51	21.51	30.00
2457MHz	Pass	3.38	20.42	20.42	30.00
2462MHz	Pass	3.38	18.20	18.20	30.00
VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.38	15.95	15.95	30.00
2417MHz	Pass	3.38	19.40	19.40	30.00
2437MHz	Pass	3.38	21.46	21.46	30.00
2457MHz	Pass	3.38	20.36	20.36	30.00
2462MHz	Pass	3.38	17.35	17.35	30.00
VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.38	13.15	13.15	30.00
2427MHz	Pass	3.38	14.15	14.15	30.00
2437MHz	Pass	3.38	16.79	16.79	30.00
2452MHz	Pass	3.38	14.60	14.60	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-5.42
802.11g_Nss1,(6Mbps)_1TX	-4.35
VHT20_Nss1,(MCS0)_1TX	-5.17
VHT40_Nss1,(MCS0)_1TX	-12.01

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.38	-7.42	-7.42	8.00
2437MHz	Pass	3.38	-7.69	-7.69	8.00
2462MHz	Pass	3.38	-5.42	-5.42	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.38	-9.54	-9.54	8.00
2437MHz	Pass	3.38	-4.35	-4.35	8.00
2462MHz	Pass	3.38	-7.28	-7.28	8.00
VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.38	-9.35	-9.35	8.00
2437MHz	Pass	3.38	-5.17	-5.17	8.00
2462MHz	Pass	3.38	-8.16	-8.16	8.00
VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.38	-13.90	-13.90	8.00
2437MHz	Pass	3.38	-12.01	-12.01	8.00
2452MHz	Pass	3.38	-12.92	-12.92	8.00

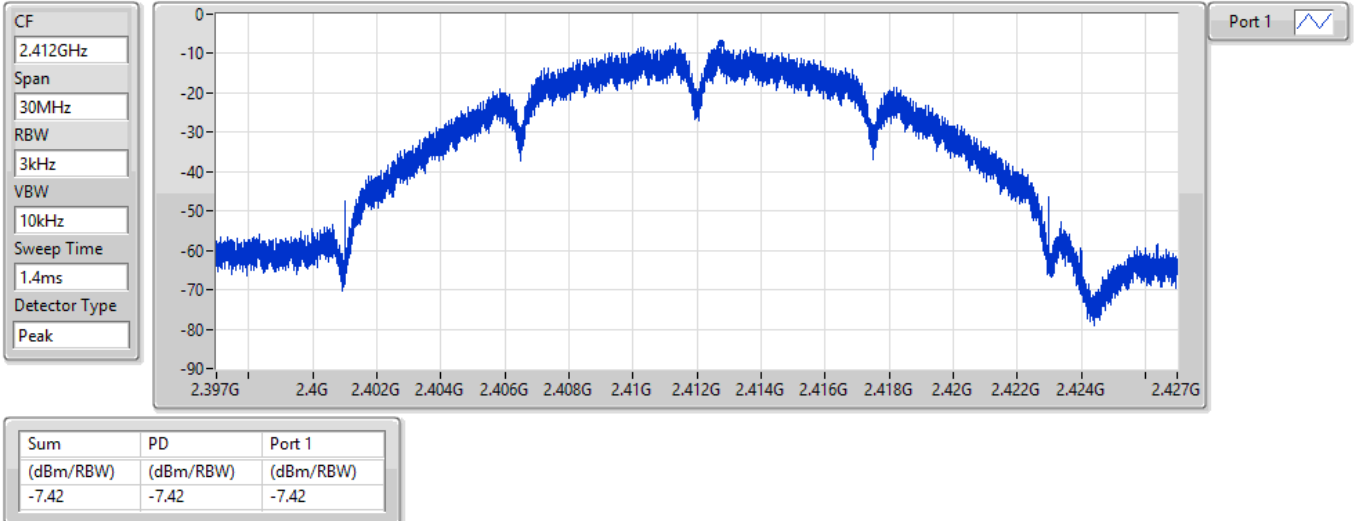
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

24/09/2022

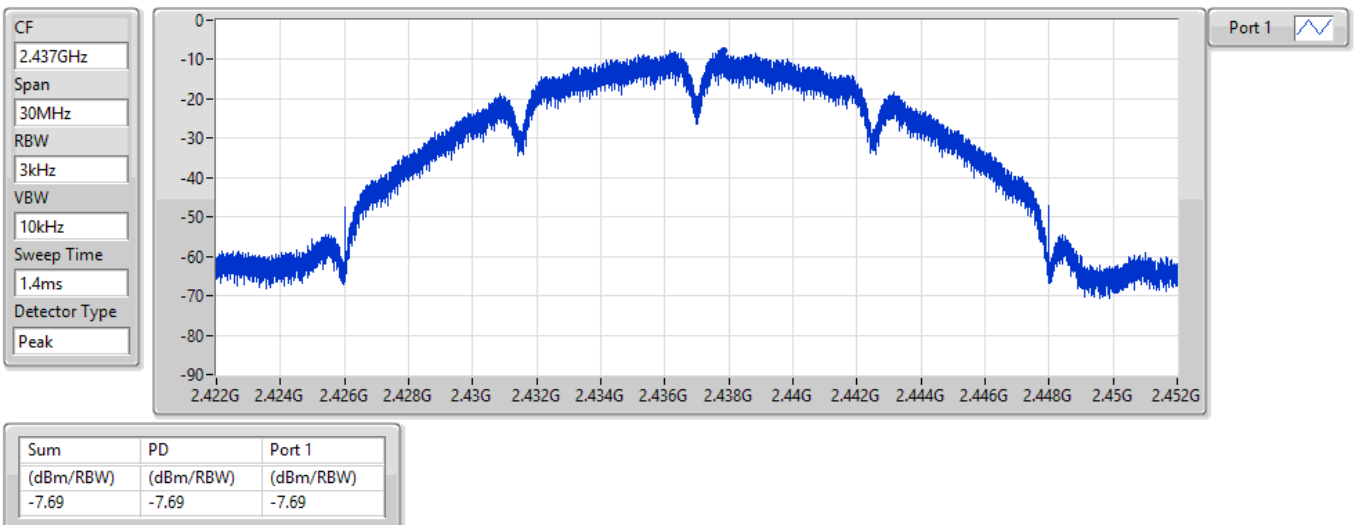


802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

24/09/2022

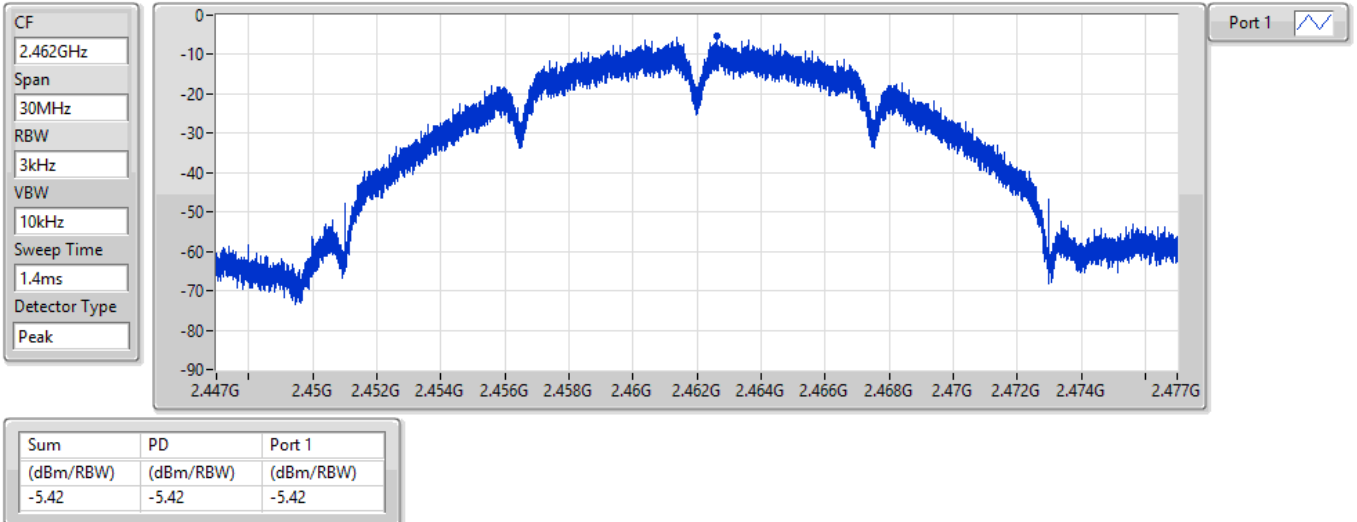


802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

24/09/2022

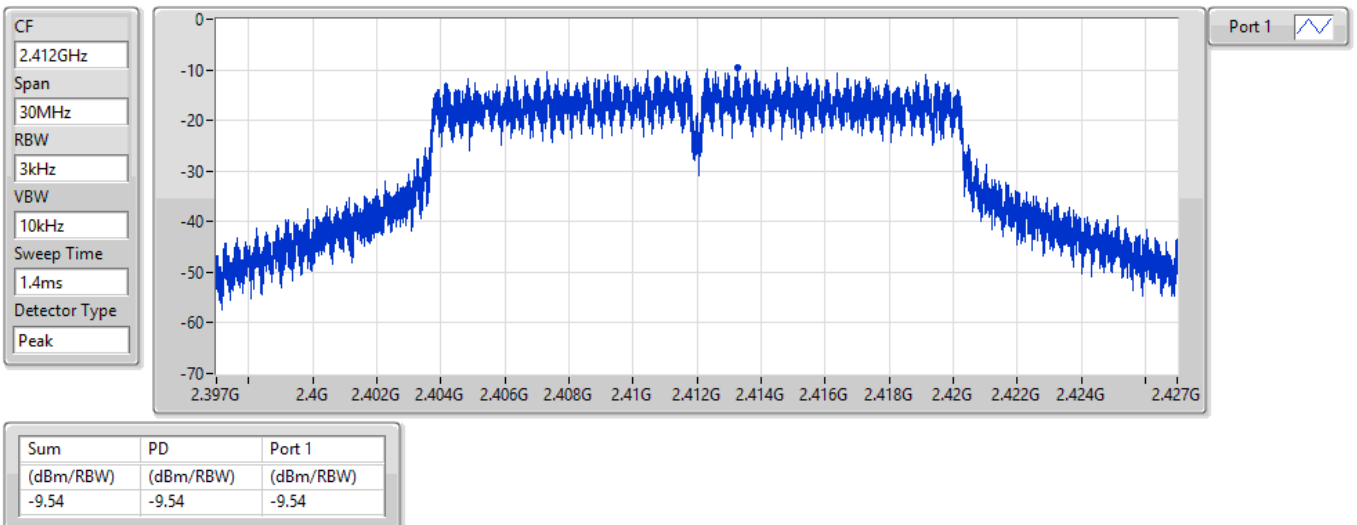


802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

24/09/2022

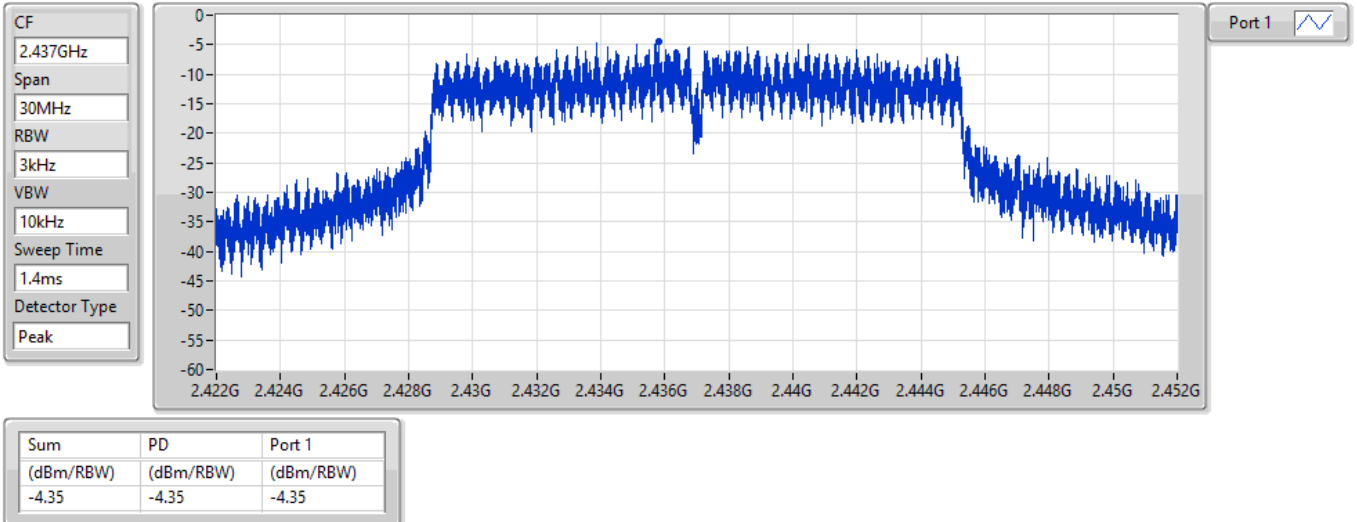


802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

24/09/2022

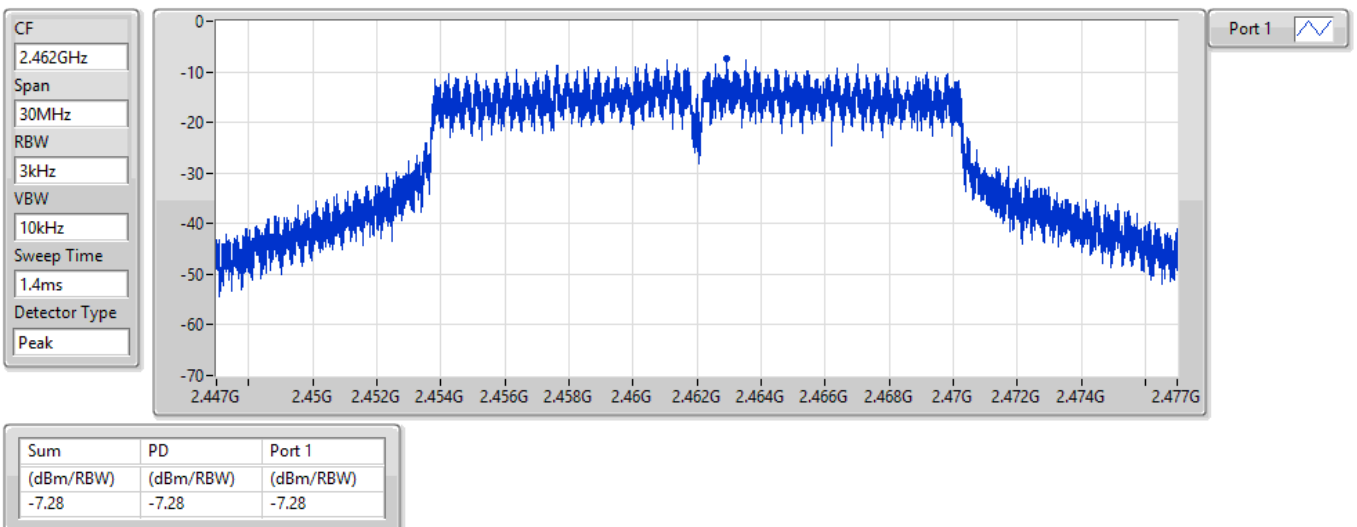


802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

24/09/2022

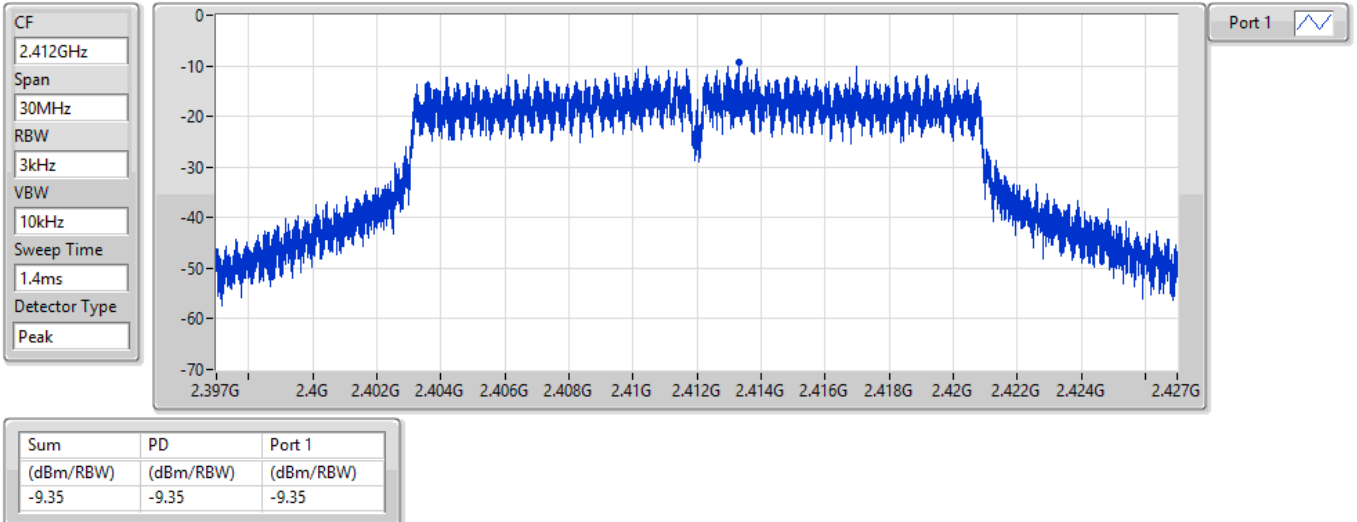


VHT20_Nss1,(MCS0)_1TX

PSD

2412MHz

24/09/2022

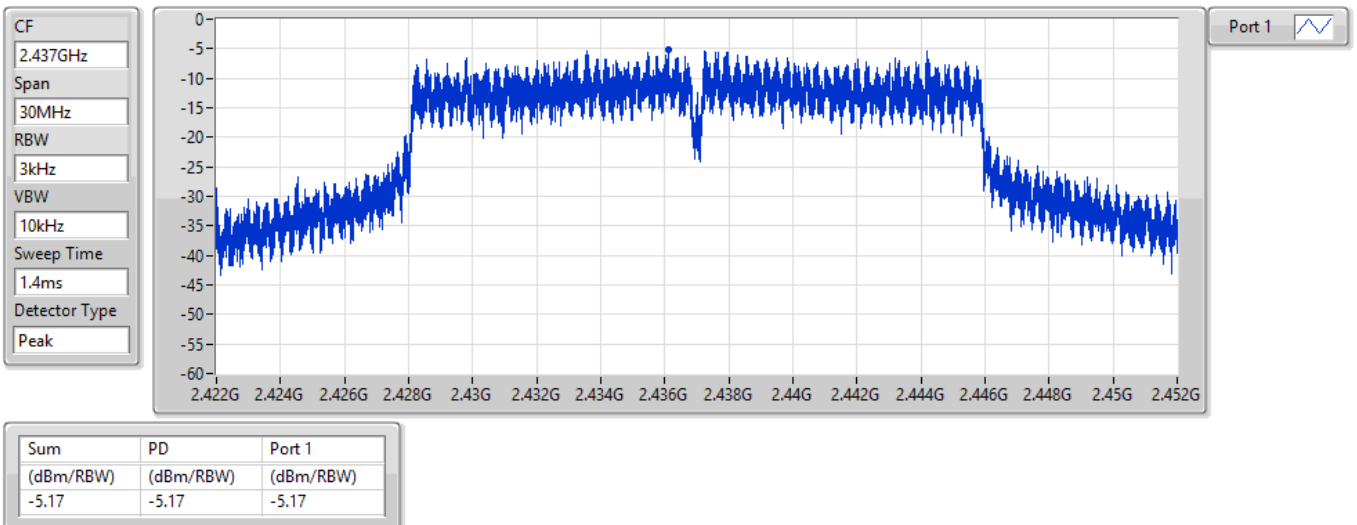


VHT20_Nss1,(MCS0)_1TX

PSD

2437MHz

24/09/2022

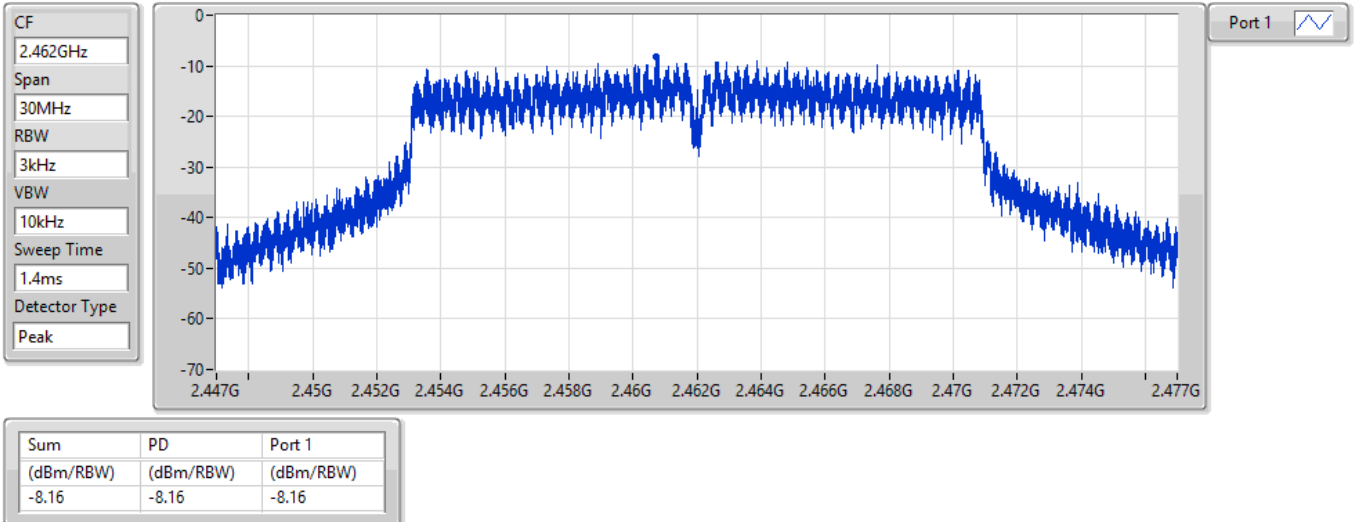


VHT20_Nss1,(MCS0)_1TX

PSD

2462MHz

24/09/2022

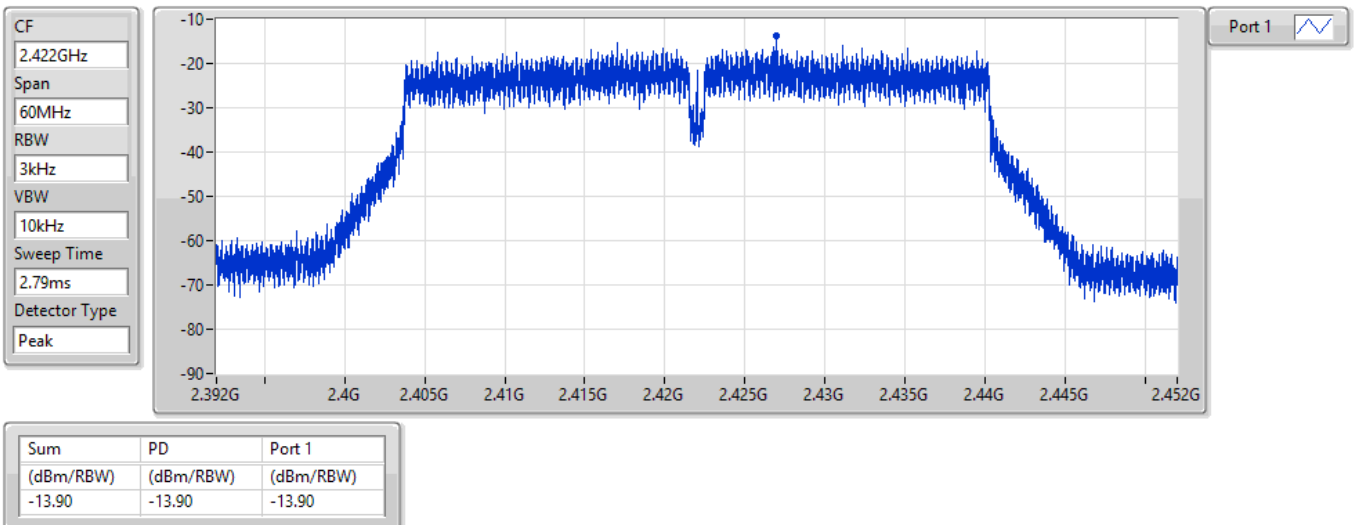


VHT40_Nss1,(MCS0)_1TX

PSD

2422MHz

24/09/2022

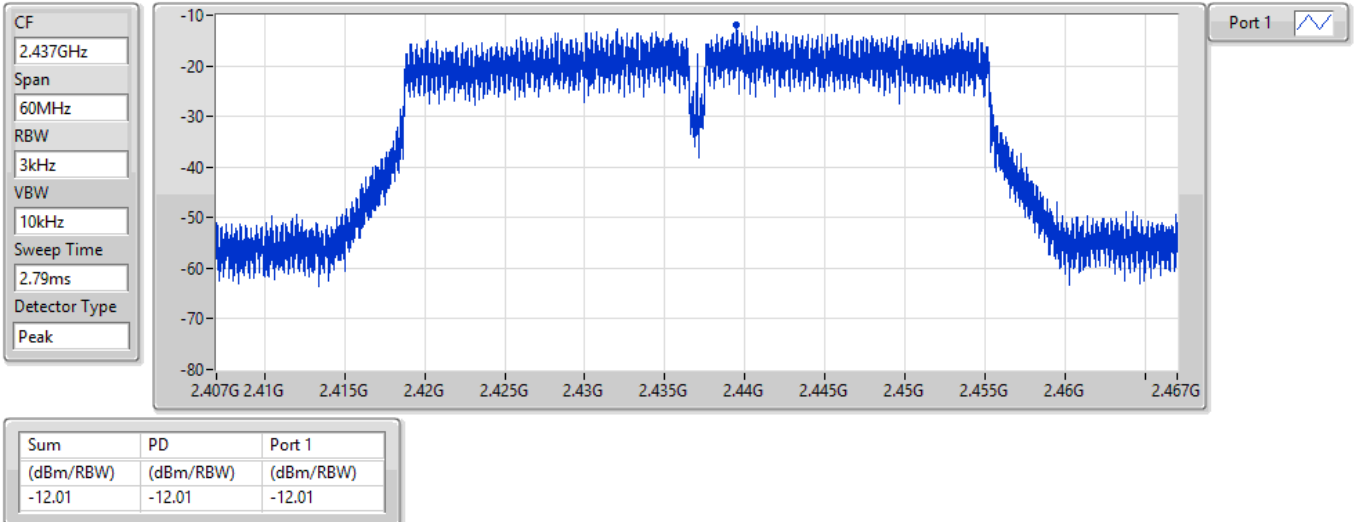


VHT40_Nss1,(MCS0)_1TX

PSD

2437MHz

24/09/2022

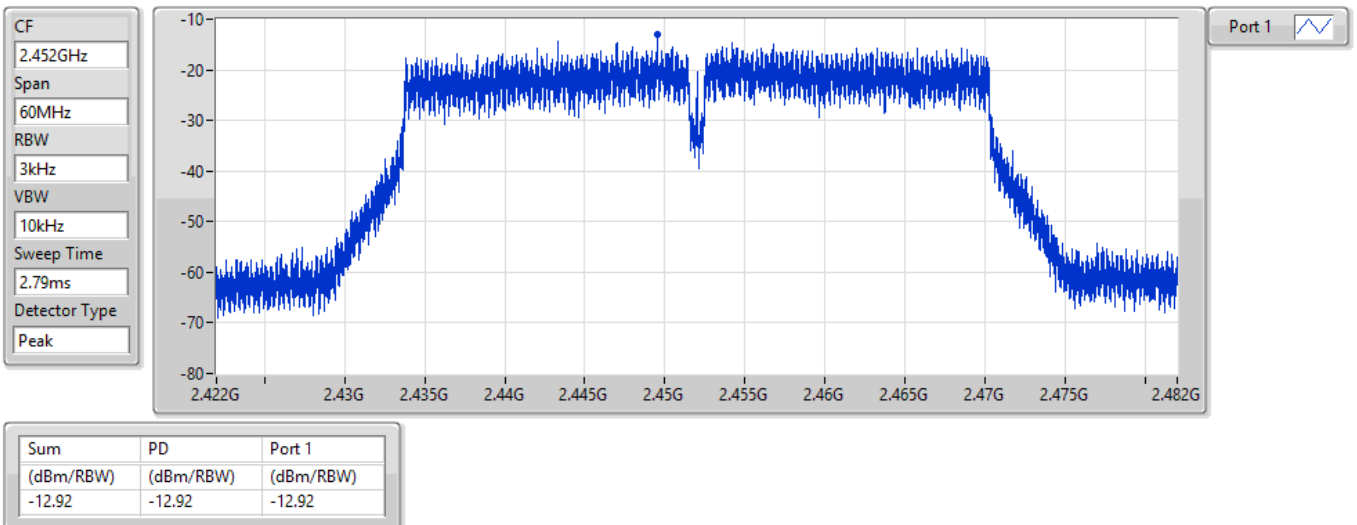


VHT40_Nss1,(MCS0)_1TX

PSD

2452MHz

24/09/2022



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)_1TX	Pass	2.4625G	9.32	-20.68	1.76935G	-54.87	2.39802G	-38.97	2.4G	-39.19	2.48776G	-51.94	21.98253G	-49.52	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43574G	11.20	-18.80	1.77779G	-54.29	2.39988G	-22.74	2.4G	-24.04	2.4888G	-49.76	21.828G	-48.20	1
VHT20_Nss1,(MCS0)_1TX	Pass	2.43574G	11.52	-18.48	47.18M	-53.98	2.39972G	-23.25	2.4G	-25.12	2.49066G	-49.94	21.86172G	-48.93	1
VHT40_Nss1,(MCS0)_1TX	Pass	2.442G	3.12	-26.88	41.16M	-54.03	2.39956G	-33.61	2.4G	-40.76	2.4839G	-41.53	21.92059G	-48.58	1

Result

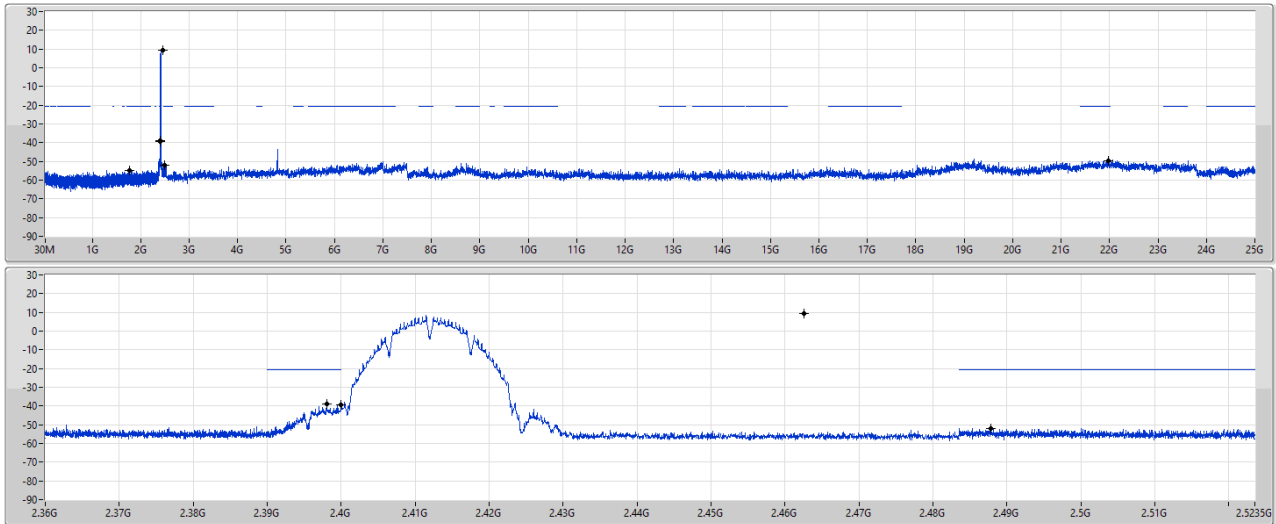
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4625G	9.32	-20.68	1.76935G	-54.87	2.39802G	-38.97	2.4G	-39.19	2.48776G	-51.94	21.98253G	-49.52	1
2437MHz	Pass	2.4625G	9.32	-20.68	1.81944G	-55.11	2.39722G	-51.74	2.4G	-54.26	2.48794G	-50.68	21.65662G	-49.06	1
2462MHz	Pass	2.4625G	9.32	-20.68	2.0038G	-55.23	2.395G	-52.55	2.4835G	-55.52	2.48652G	-49.79	6.4901G	-50.46	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	11.20	-18.80	1.77779G	-54.29	2.39988G	-22.74	2.4G	-24.04	2.4888G	-49.76	21.828G	-48.20	1
2437MHz	Pass	2.43574G	11.20	-18.80	2.16545G	-54.40	2.39982G	-37.99	2.4G	-41.95	2.48822G	-42.04	21.73529G	-48.27	1
2462MHz	Pass	2.43574G	11.20	-18.80	80.1M	-54.44	2.39206G	-50.83	2.4835G	-39.29	2.48386G	-34.74	21.8561G	-48.76	1
VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	11.52	-18.48	47.18M	-53.98	2.39972G	-23.25	2.4G	-25.12	2.49066G	-49.94	21.86172G	-48.93	1
2437MHz	Pass	2.43574G	11.52	-18.48	175.63M	-54.93	2.39952G	-37.66	2.4G	-41.40	2.48884G	-42.54	21.97129G	-49.32	1
2462MHz	Pass	2.43574G	11.52	-18.48	1.99303G	-55.06	2.39446G	-49.34	2.4835G	-39.09	2.4842G	-38.34	21.53862G	-48.78	1
VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.442G	3.12	-26.88	104.43M	-53.53	2.4G	-38.94	2.4G	-39.02	2.4907G	-51.54	21.99912G	-48.24	1
2437MHz	Pass	2.442G	3.12	-26.88	41.16M	-54.03	2.39956G	-33.61	2.4G	-40.76	2.4839G	-41.53	21.92059G	-48.58	1
2452MHz	Pass	2.442G	3.12	-26.88	1.94873G	-53.67	2.39964G	-52.44	2.4835G	-42.76	2.4845G	-37.92	21.90096G	-48.63	1

802.11b_Nss1,(1Mbps)_1TX

2412MHz

CSENdB

24/09/2022

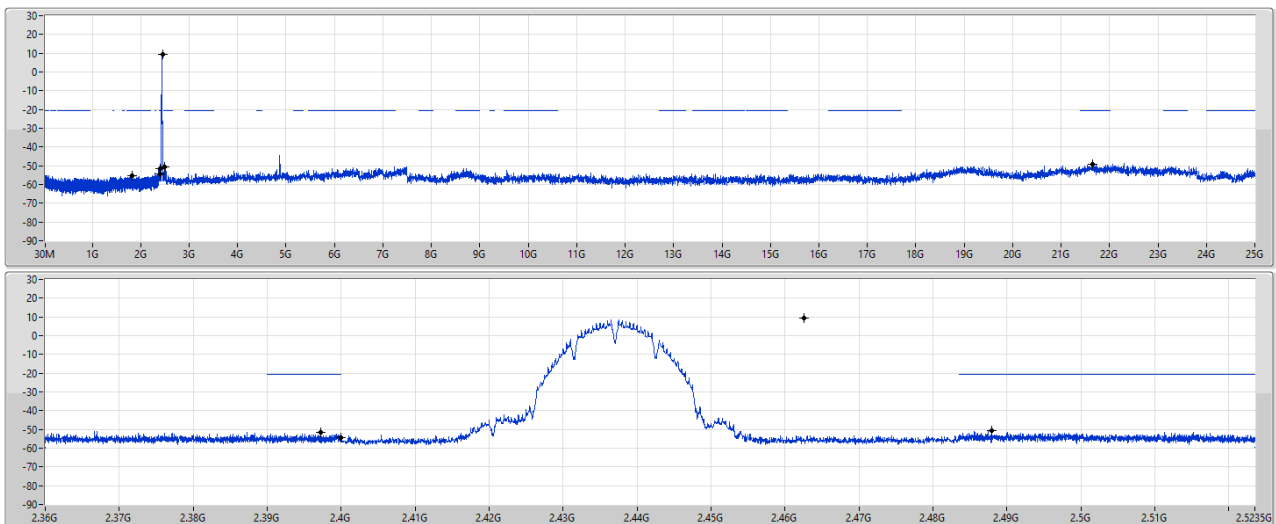


802.11b_Nss1,(1Mbps)_1TX

2437MHz

CSENdB

24/09/2022



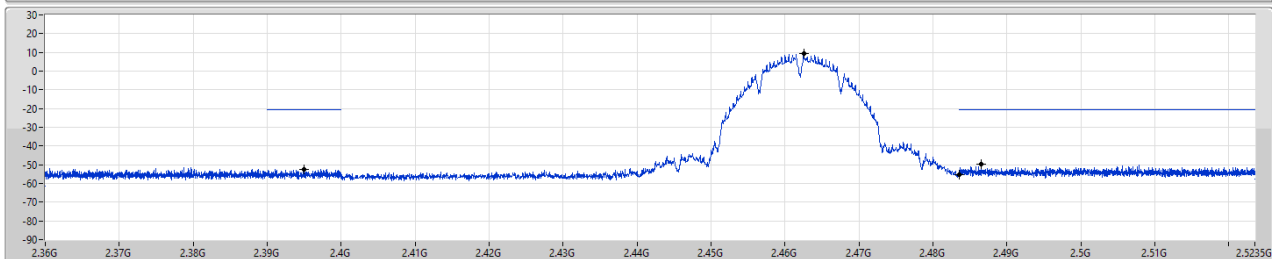
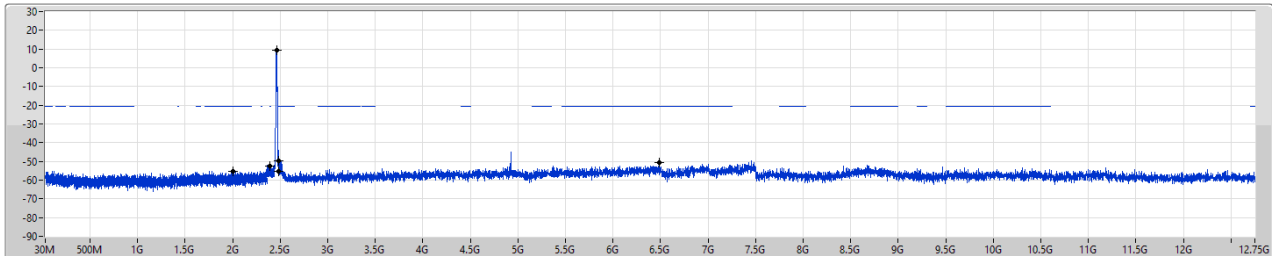
802.11b_Nss1,(1Mbps)_1TX

2462MHz

CSENdB

24/09/2022

Port 1



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
2.4625G	9.32	-20.68	2.0038G	-55.23	2.395G	-52.55	2.4835G	-55.52	2.48652G	-49.79	6.4901G	-50.46	1

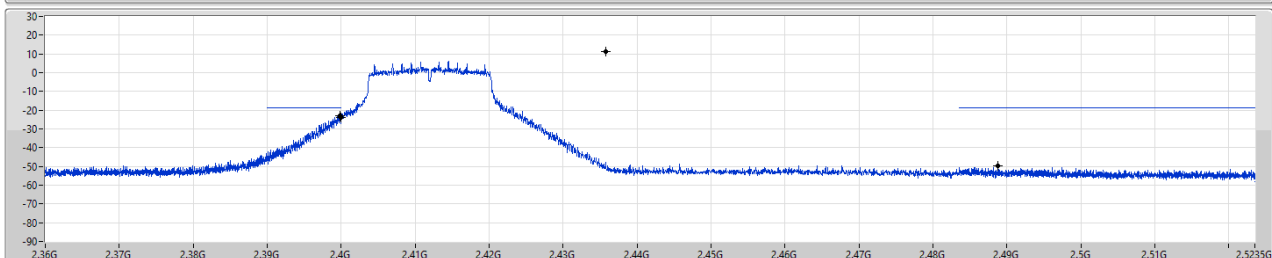
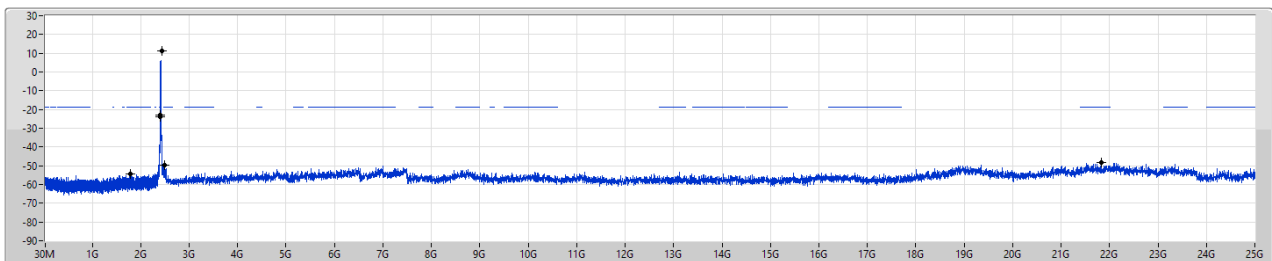
802.11g_Nss1,(6Mbps)_1TX

2412MHz

CSENdB

24/09/2022

Port 1



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
2.43574G	11.20	-18.80	1.7779G	-54.29	2.39988G	-22.74	2.4G	-24.04	2.4888G	-49.76	21.828G	-48.20	1

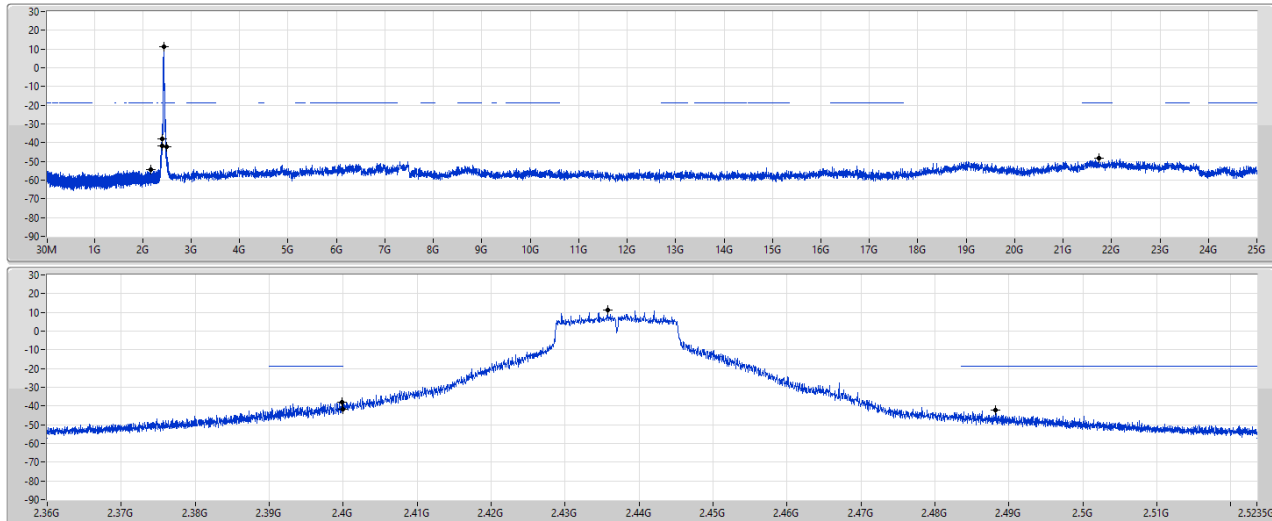
802.11g_Nss1,(6Mbps)_1TX

2437MHz

CSENdB

24/09/2022

Port 1



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
2.43574G	11.20	-18.80	2.16545G	-54.40	2.39982G	-37.99	2.4G	-41.95	2.48822G	-42.04	2.173529G	-48.27	1

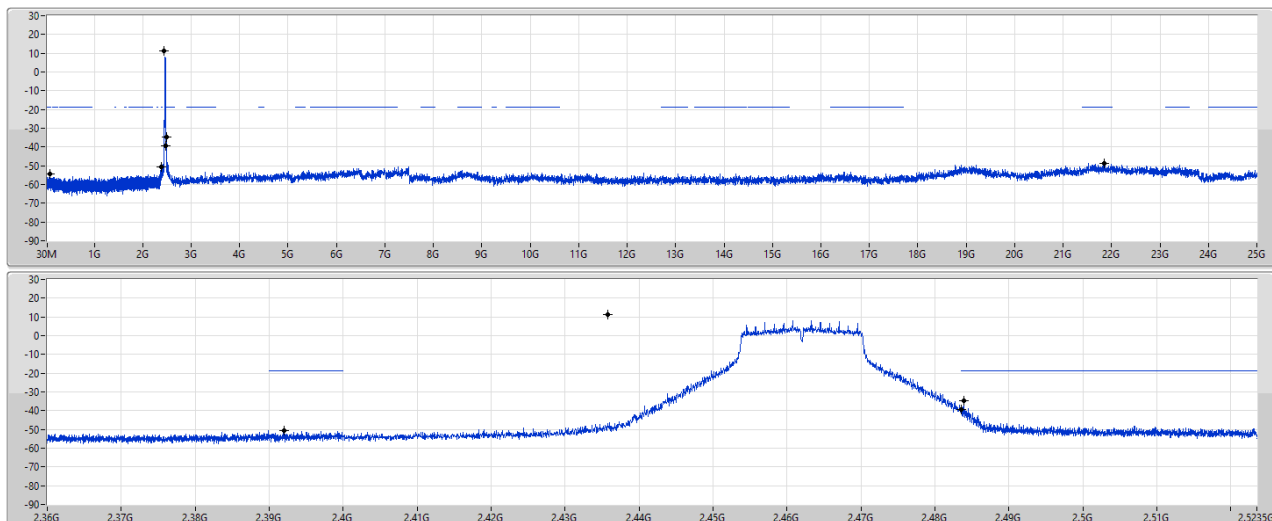
802.11g_Nss1,(6Mbps)_1TX

2462MHz

CSENdB

24/09/2022

Port 1



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

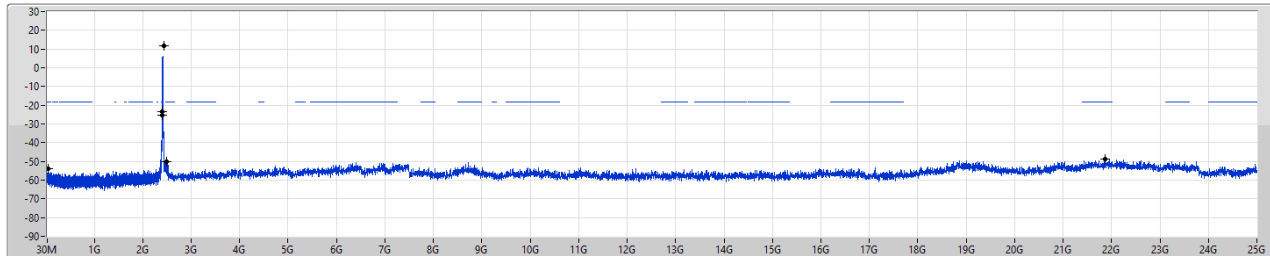
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	11.20	-18.80	80.1M	-54.44	2.39206G	-50.83	2.4835G	-39.29	2.48386G	-34.74	2.18561G	-48.76	1

VHT20_Nss1,(MCS0)_1TX

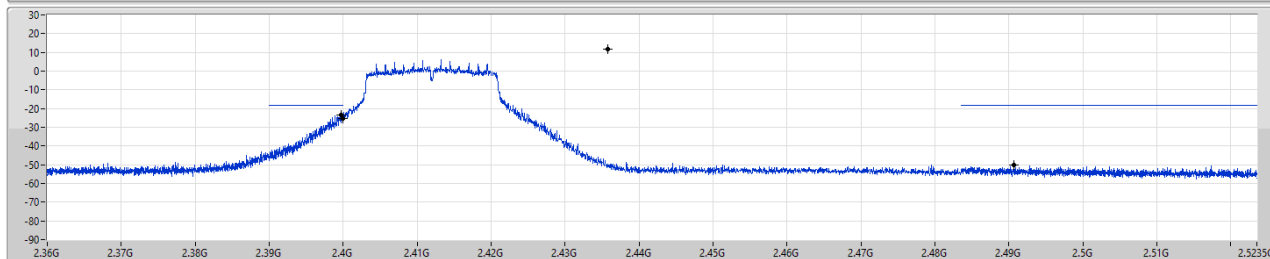
CSENdB

2412MHz

24/09/2022



Port 1



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

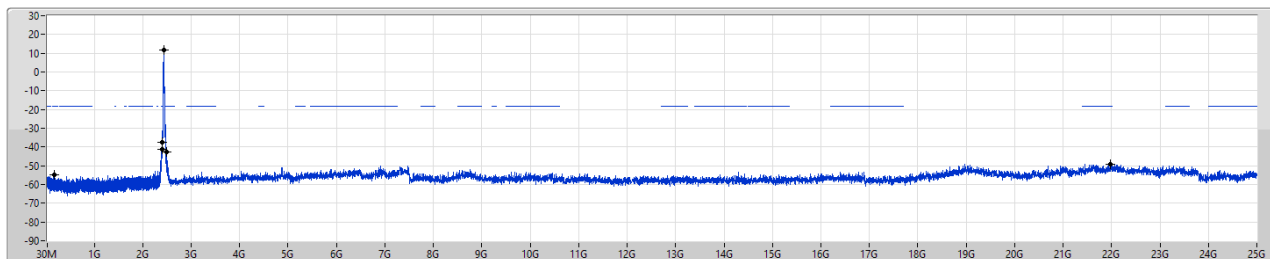
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	11.52	-18.48	47.18M	-53.98	2.39972G	-23.25	2.4G	-25.12	2.49066G	-49.94	21.86172G	-48.93	1

VHT20_Nss1,(MCS0)_1TX

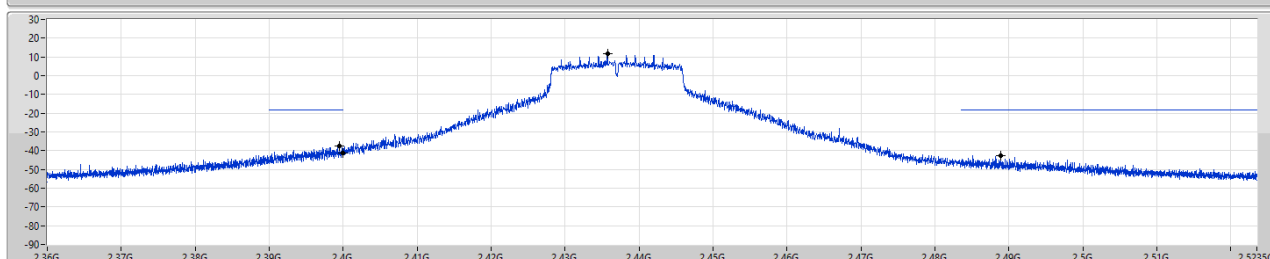
CSENdB

2437MHz

24/09/2022



Port 1



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

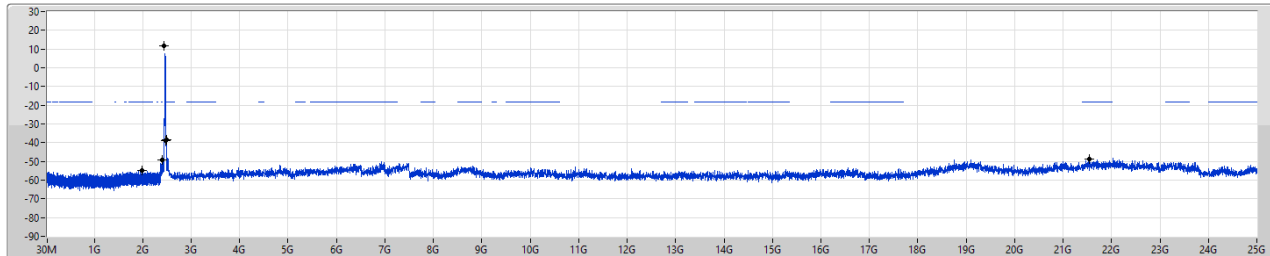
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	11.52	-18.48	175.63M	-54.93	2.39952G	-37.66	2.4G	-41.40	2.48884G	-42.54	21.97129G	-49.32	1

VHT20_Nss1,(MCS0)_1TX

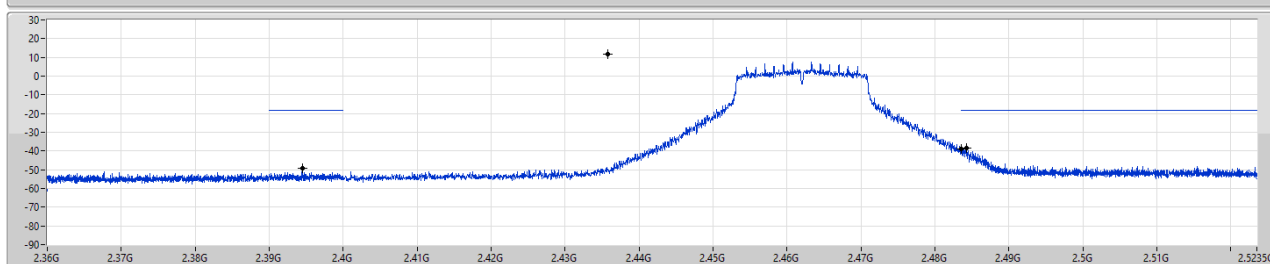
2462MHz

CSENdB

24/09/2022



Port 1



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

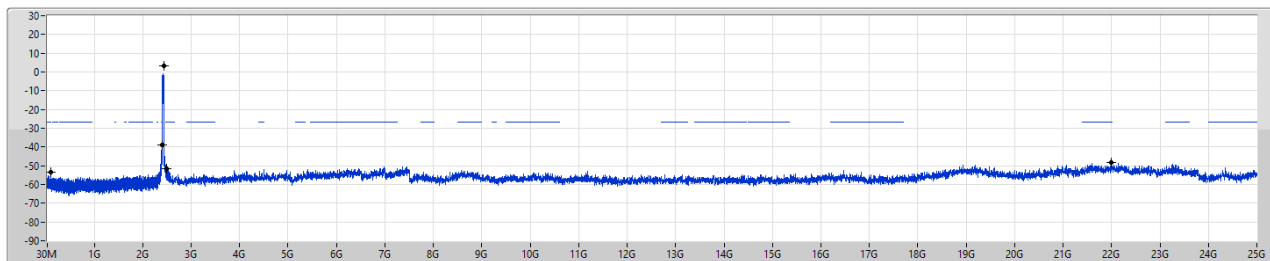
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	11.52	-18.48	1.99303G	-55.06	2.39446G	-49.34	2.4835G	-39.09	2.4842G	-38.34	21.53862G	-48.78	1

VHT40_Nss1,(MCS0)_1TX

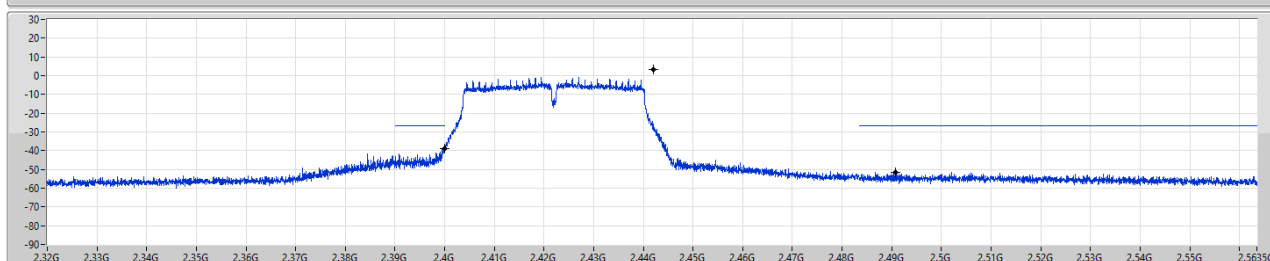
2422MHz

CSENdB

24/09/2022



Port 1



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

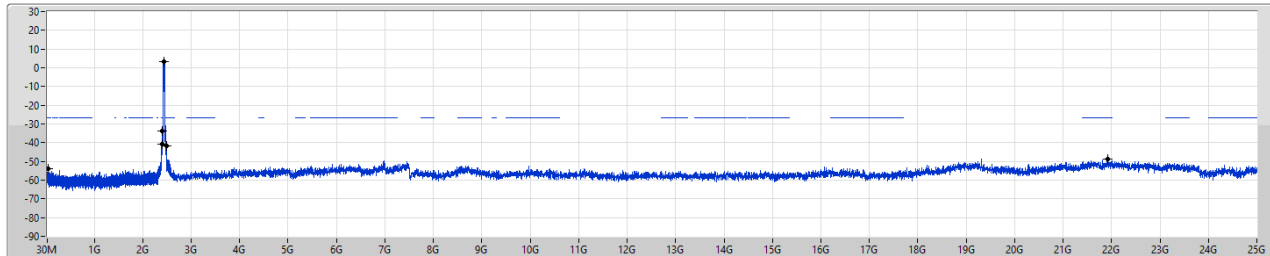
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	3.12	-26.88	104.43M	-53.53	2.4G	-38.94	2.4G	-39.02	2.4907G	-51.54	21.99912G	-48.24	1

VHT40_Nss1,(MCS0)_1TX

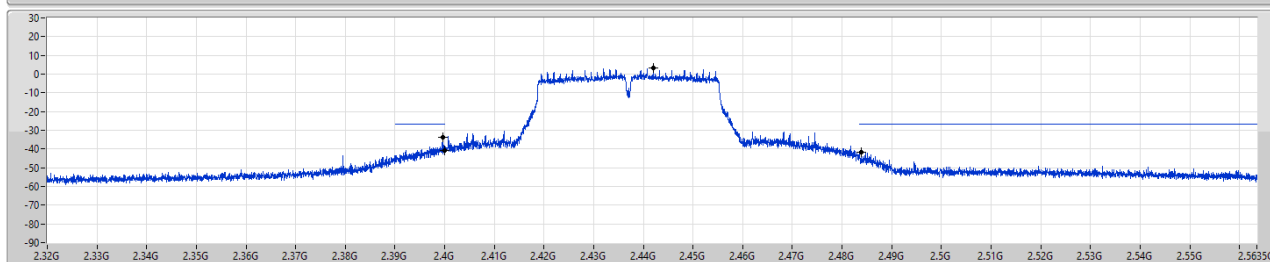
CSENdB

2437MHz

24/09/2022



Port 1



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

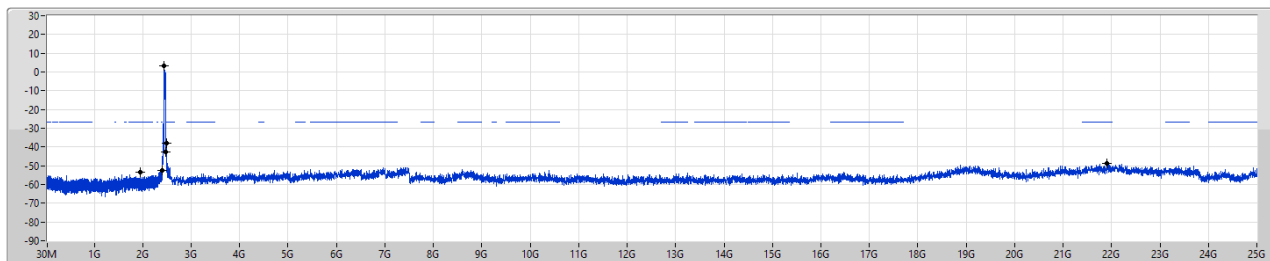
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	3.12	-26.88	41.16M	-54.03	2.39956G	-33.61	2.4G	-40.76	2.4839G	-41.53	21.92059G	-48.58	1

VHT40_Nss1,(MCS0)_1TX

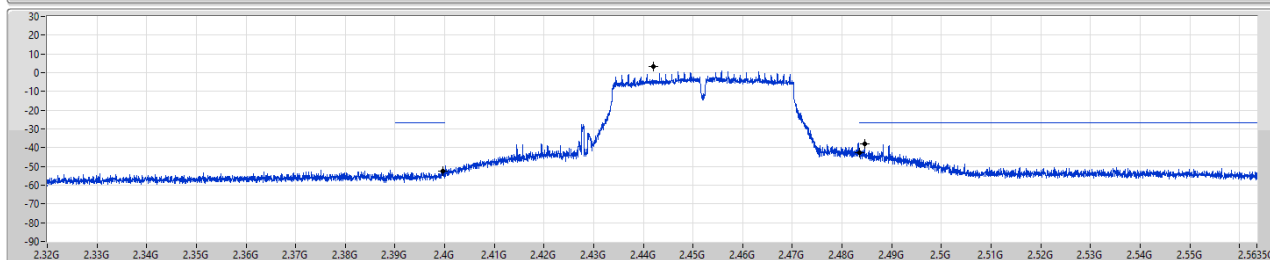
CSENdB

2452MHz

24/09/2022



Port 1



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	3.12	-26.88	1.94873G	-53.67	2.39964G	-52.44	2.4835G	-42.76	2.4845G	-37.92	21.90096G	-48.63	1



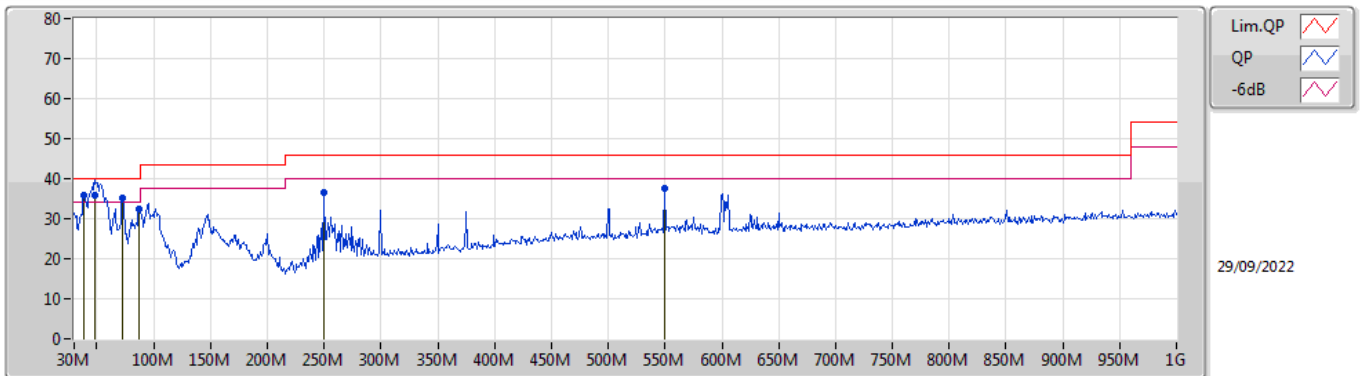
Radiated Emissions below 1GHz

Appendix F.1

Summary

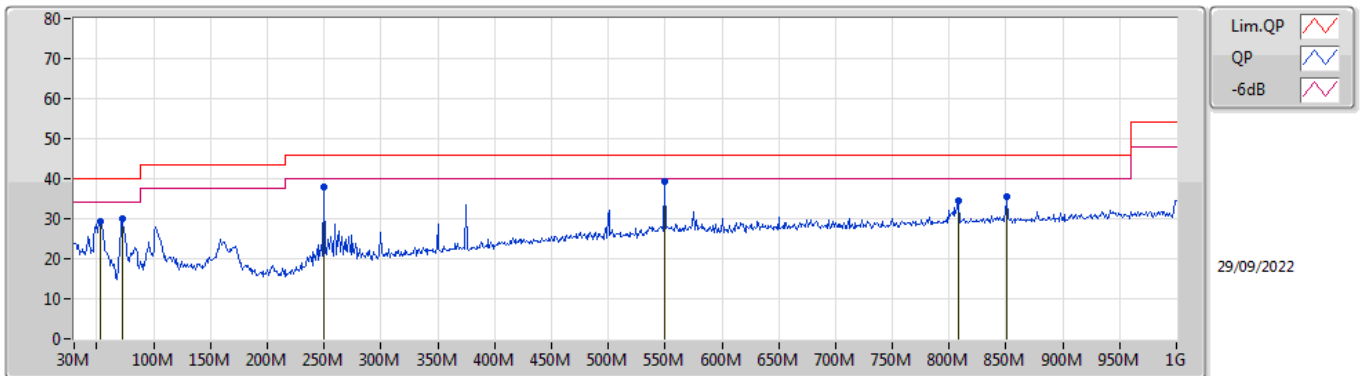
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 9	Pass	QP	48.43M	35.98	40.00	-4.02	Vertical

Mode 9



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	38.73M	35.92	40.00	-4.08	-11.48	3	Vertical	306	1.00	-	47.40	19.35	0.90	31.73
QP	48.43M	35.98	40.00	-4.02	-16.19	3	Vertical	314	1.00	"Worst"	52.17	14.59	1.07	31.85
PK	72.68M	35.08	40.00	-4.92	-18.50	3	Vertical	72	2.00	-	53.58	12.17	1.30	31.97
PK	87.23M	32.46	40.00	-7.54	-16.49	3	Vertical	331	1.00	-	48.95	14.02	1.44	31.95
PK	250.19M	36.49	46.00	-9.51	-11.28	3	Vertical	0	1.25	-	47.77	18.22	2.50	32.00
PK	549.92M	37.75	46.00	-8.25	-4.10	3	Vertical	170	1.00	-	41.85	24.48	3.80	32.38

Mode 9



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	53.28M	29.39	40.00	-10.61	-17.82	3	Horizontal	89	1.25	-	47.21	12.96	1.10	31.88
PK	72.68M	29.91	40.00	-10.09	-18.50	3	Horizontal	359	1.00	-	48.41	12.17	1.30	31.97
PK	250.19M	37.99	46.00	-8.01	-11.28	3	Horizontal	49	1.50	-	49.27	18.22	2.50	32.00
PK	549.92M	39.19	46.00	-6.81	-4.10	3	Horizontal	85	2.00	"Worst"	43.29	24.48	3.80	32.38
PK	807.94M	34.42	46.00	-11.58	-2.03	3	Horizontal	141	1.00	-	36.45	25.55	4.93	32.51
PK	850.62M	35.53	46.00	-10.47	-1.51	3	Horizontal	87	2.00	-	37.04	25.88	5.10	32.49

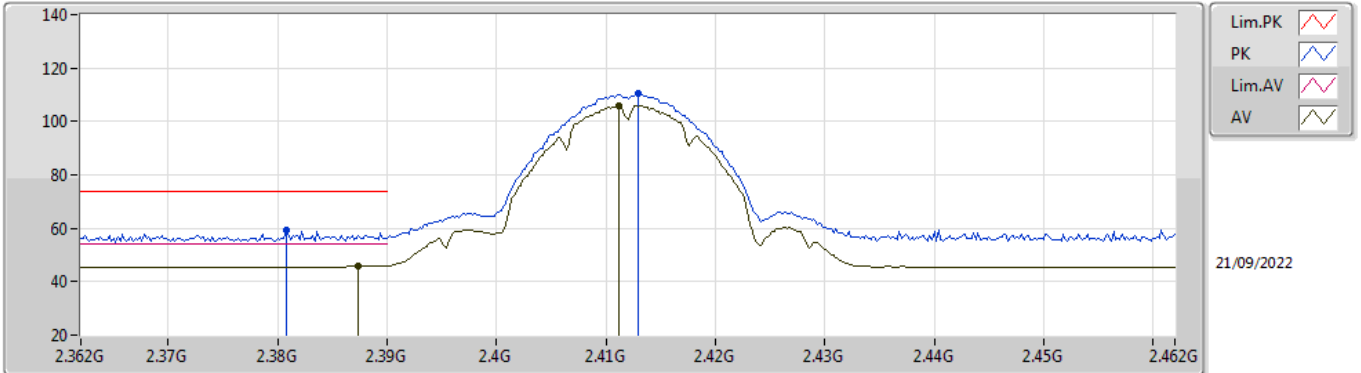


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
VHT40_Nss1.(MCS0)_1TX	Pass	AV	2.3896G	53.94	54.00	-0.06	3	Vertical	30	1.34	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

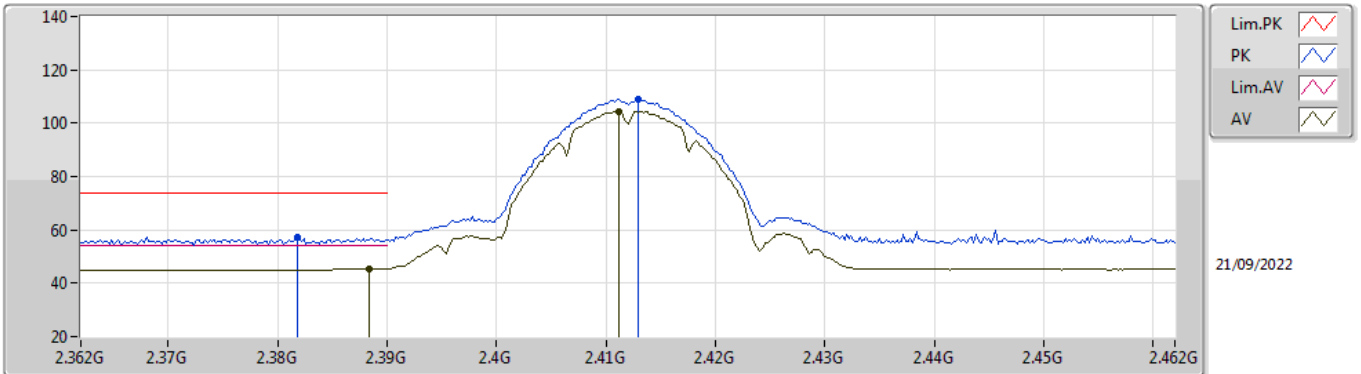


EUT X_1TX
Setting 17.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3808G	59.29	74.00	-14.71	26.69	3	Vertical	27	1.76	-	28.22	4.38	-
AV	2.3874G	46.08	54.00	-7.92	13.44	3	Vertical	27	1.76	-	28.25	4.39	-
PK	2.413G	110.33	Inf	-Inf	77.62	3	Vertical	27	1.76	-	28.30	4.41	-
AV	2.4112G	105.85	Inf	-Inf	73.14	3	Vertical	27	1.76	-	28.30	4.41	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

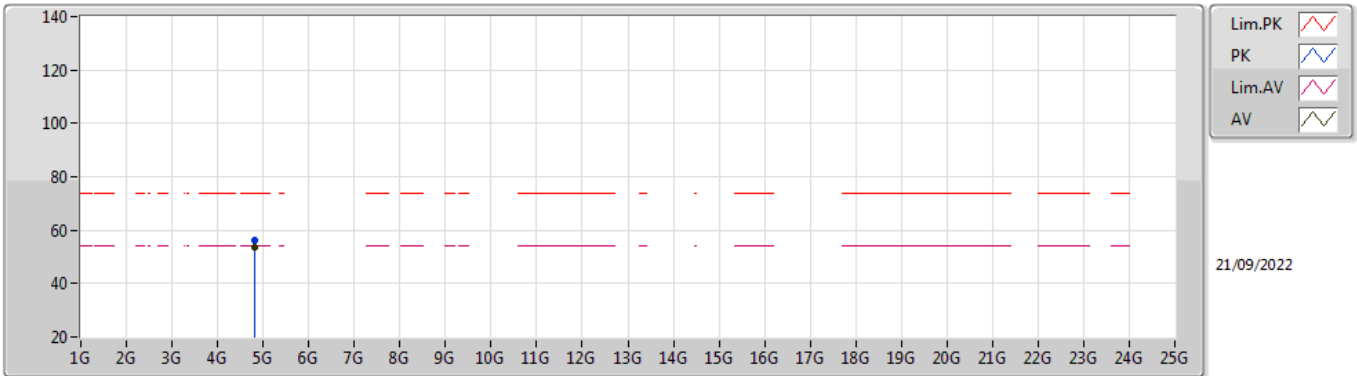


EUT X_1TX
Setting 17.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3818G	57.30	74.00	-16.70	24.69	3	Horizontal	271	2.97	-	28.23	4.38	-
AV	2.3884G	45.47	54.00	-8.53	12.83	3	Horizontal	271	2.97	-	28.25	4.39	-
PK	2.413G	108.93	Inf	-Inf	76.22	3	Horizontal	271	2.97	-	28.30	4.41	-
AV	2.4112G	104.53	Inf	-Inf	71.82	3	Horizontal	271	2.97	-	28.30	4.41	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

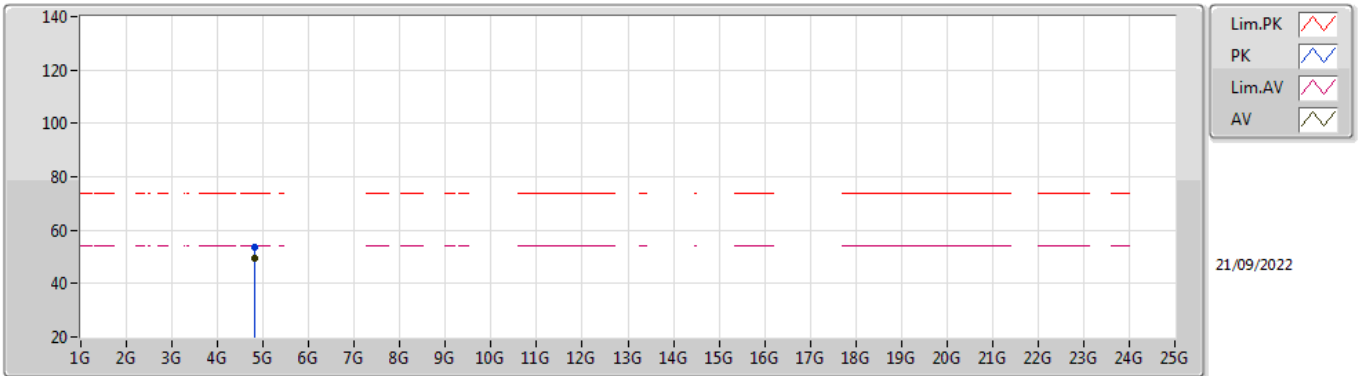


EUT_X_1TX
Setting 17.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.82392G	56.34	74.00	-17.66	50.80	3	Vertical	310	2.83	-	33.34	7.10	34.90	
AV	4.82396G	53.72	54.00	-0.28	48.18	3	Vertical	310	2.83	-	33.34	7.10	34.90	

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

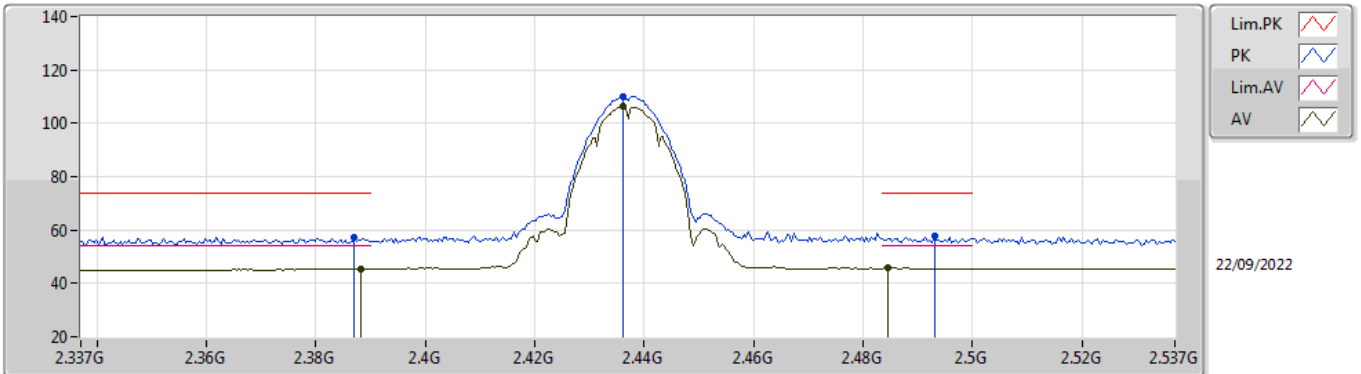


EUT X_1TX
Setting 17.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.824G	53.37	74.00	-20.63	47.83	3	Horizontal	322	1.98	-	33.34	7.10	34.90
AV	4.82396G	49.57	54.00	-4.43	44.03	3	Horizontal	322	1.98	-	33.34	7.10	34.90

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

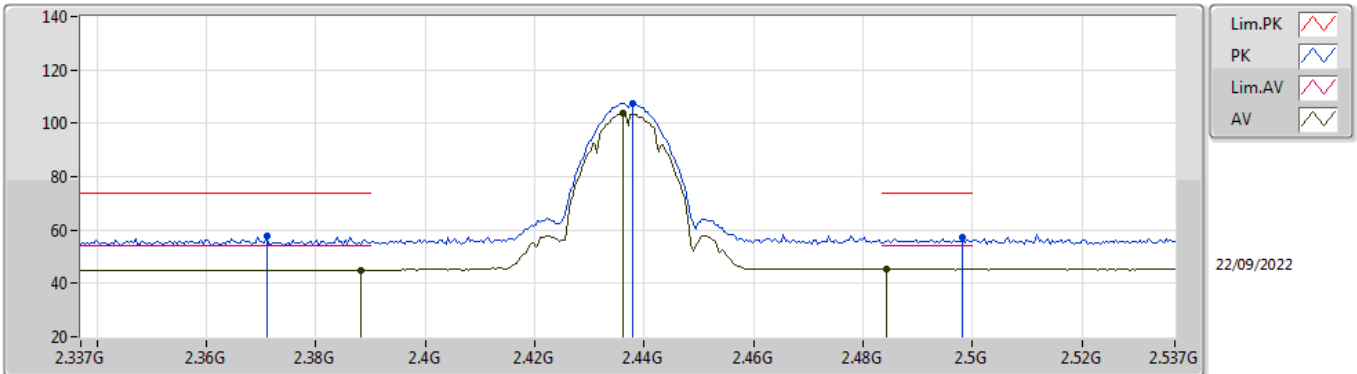


EUT_X_1TX
Setting 18
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	57.33	74.00	-16.67	24.69	3	Vertical	30	1.32	-	28.25	4.39	-
AV	2.3882G	45.41	54.00	-8.59	12.77	3	Vertical	30	1.32	-	28.25	4.39	-
PK	2.4362G	110.10	Inf	-Inf	77.38	3	Vertical	30	1.32	-	28.30	4.42	-
AV	2.4362G	106.29	Inf	-Inf	73.57	3	Vertical	30	1.32	-	28.30	4.42	-
PK	2.493G	57.56	74.00	-16.44	24.64	3	Vertical	30	1.32	-	28.47	4.45	-
AV	2.4846G	45.71	54.00	-8.29	12.83	3	Vertical	30	1.32	-	28.44	4.44	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

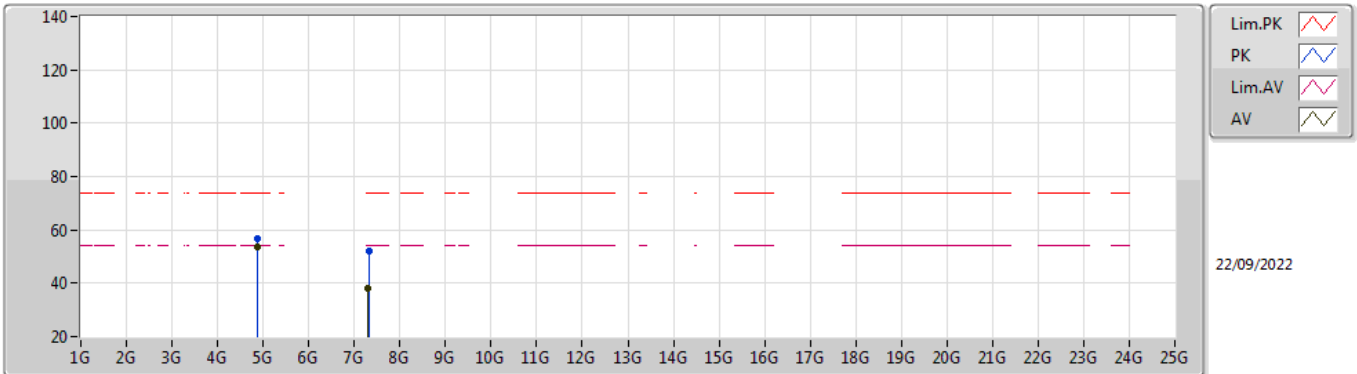


EUT_X_1TX
Setting 18
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.371G	57.60	74.00	-16.40	25.05	3	Horizontal	258	2.63	-	28.18	4.37	-
AV	2.3882G	45.06	54.00	-8.94	12.42	3	Horizontal	258	2.63	-	28.25	4.39	-
PK	2.4378G	107.59	Inf	-Inf	74.87	3	Horizontal	258	2.63	-	28.30	4.42	-
AV	2.4362G	103.78	Inf	-Inf	71.06	3	Horizontal	258	2.63	-	28.30	4.42	-
PK	2.4982G	57.12	74.00	-16.88	24.18	3	Horizontal	258	2.63	-	28.49	4.45	-
AV	2.4842G	45.38	54.00	-8.62	12.50	3	Horizontal	258	2.63	-	28.44	4.44	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

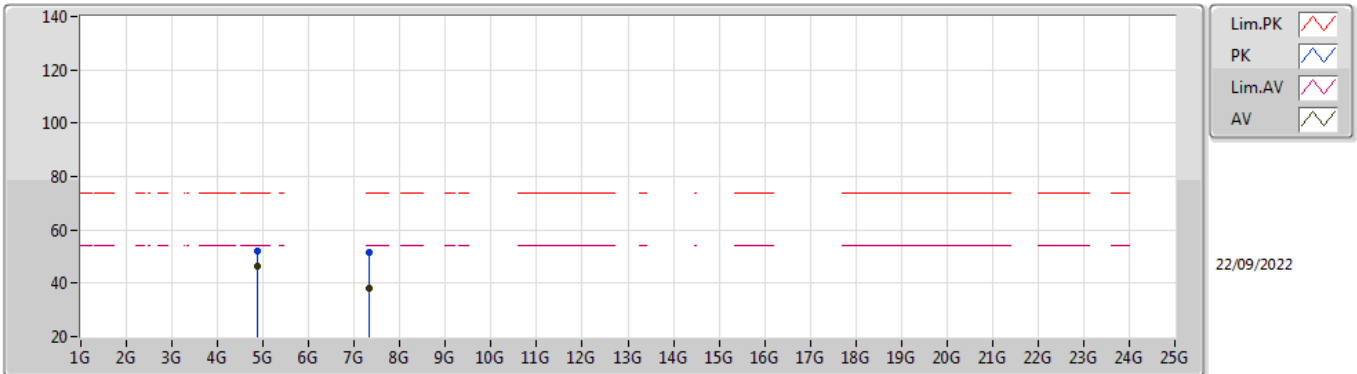


EUT X_1TX
Setting 18
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87402G	56.50	74.00	-17.50	50.70	3	Vertical	309	2.41	-	33.60	7.10	34.90
AV	4.874G	53.56	54.00	-0.44	47.76	3	Vertical	309	2.41	-	33.60	7.10	34.90
PK	7.31318G	51.86	74.00	-22.14	41.64	3	Vertical	283	1.52	-	36.93	8.43	35.14
AV	7.30992G	37.94	54.00	-16.06	27.74	3	Vertical	283	1.52	-	36.92	8.42	35.14

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

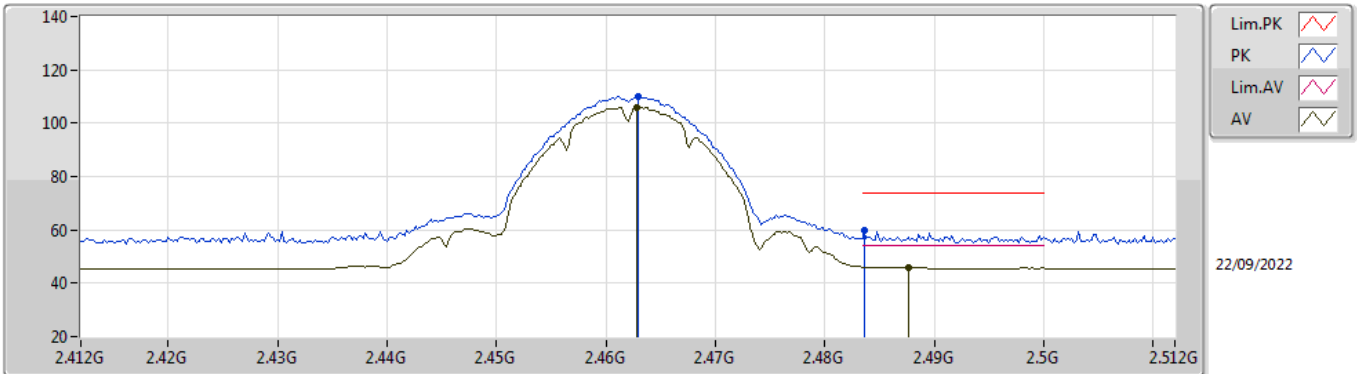


EUT X_1TX
Setting 18
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87406G	52.29	74.00	-21.71	46.49	3	Horizontal	320	1.00	-	33.60	7.10	34.90
AV	4.874G	46.62	54.00	-7.38	40.82	3	Horizontal	320	1.00	-	33.60	7.10	34.90
PK	7.31564G	51.81	74.00	-22.19	41.60	3	Horizontal	331	2.78	-	36.93	8.43	35.15
AV	7.31302G	37.91	54.00	-16.09	27.69	3	Horizontal	331	2.78	-	36.93	8.43	35.14

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

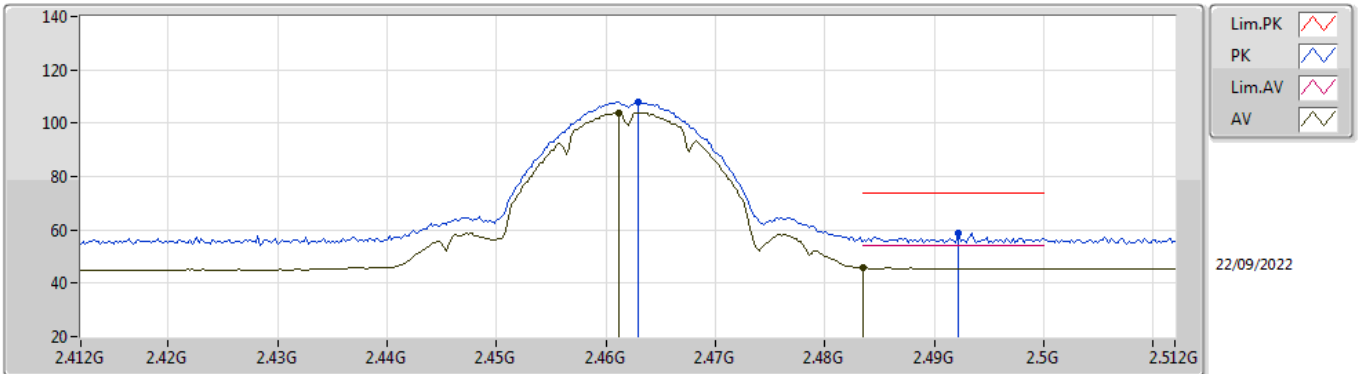


EUT X_1TX
Setting 18.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.463G	110.07	Inf	-Inf	77.29	3	Vertical	32	1.27	-	28.35	4.43	-	
AV	2.4628G	106.04	Inf	-Inf	73.26	3	Vertical	32	1.27	-	28.35	4.43	-	
PK	2.4836G	59.81	74.00	-14.19	26.94	3	Vertical	32	1.27	-	28.43	4.44	-	
AV	2.4876G	45.98	54.00	-8.02	13.09	3	Vertical	32	1.27	-	28.45	4.44	-	

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

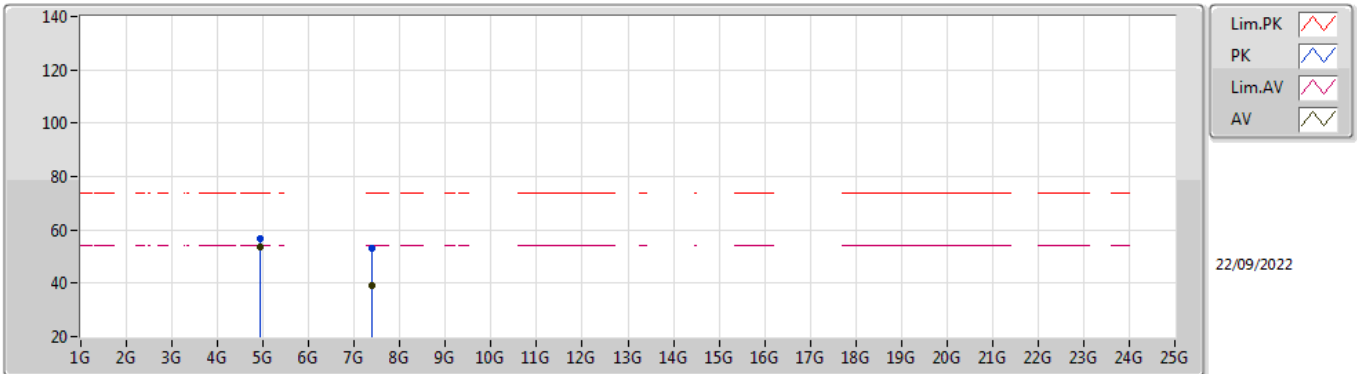


EUT X_1TX
Setting 18.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	108.15	Inf	-Inf	75.37	3	Horizontal	269	2.83	-	28.35	4.43	-
AV	2.4612G	104.05	Inf	-Inf	71.28	3	Horizontal	269	2.83	-	28.34	4.43	-
PK	2.4922G	59.02	74.00	-14.98	26.10	3	Horizontal	269	2.83	-	28.47	4.45	-
AV	2.4835G	45.78	54.00	-8.22	12.91	3	Horizontal	269	2.83	-	28.43	4.44	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

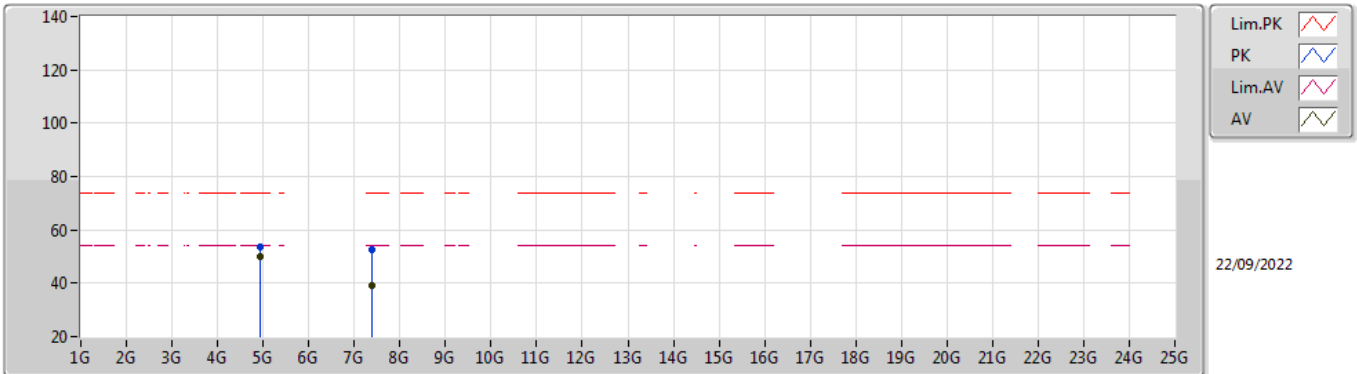


EUT X_1TX
Setting 18.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92396G	56.49	74.00	-17.51	50.53	3	Vertical	308	2.16	-	33.75	7.10	34.89
AV	4.92398G	53.58	54.00	-0.42	47.62	3	Vertical	308	2.16	-	33.75	7.10	34.89
PK	7.38408G	53.06	74.00	-20.94	42.67	3	Vertical	16	2.80	-	37.00	8.57	35.18
AV	7.38444G	39.08	54.00	-14.92	28.69	3	Vertical	16	2.80	-	37.00	8.57	35.18

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

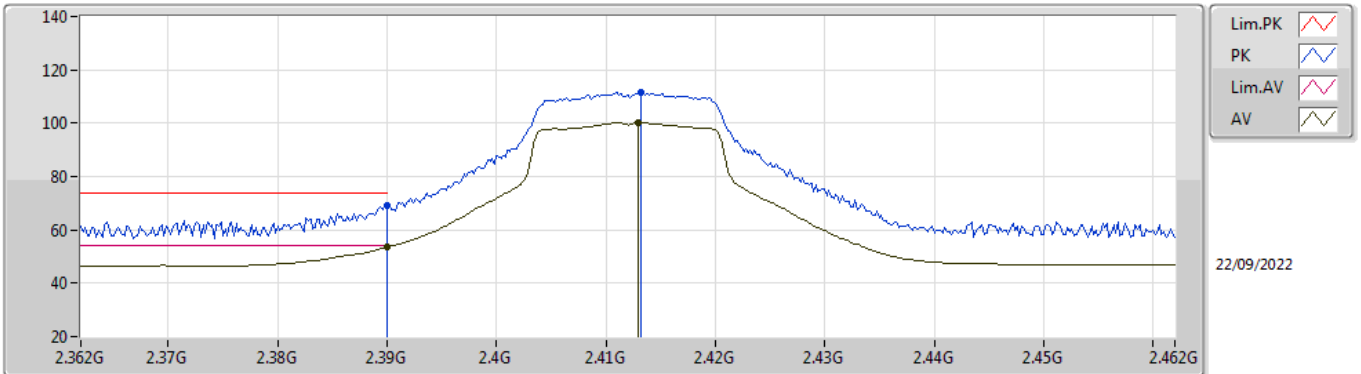


EUT X_1TX
Setting 18.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.924G	53.77	74.00	-20.23	47.81	3	Horizontal	333	2.81	-	33.75	7.10	34.89
AV	4.92396G	49.88	54.00	-4.12	43.92	3	Horizontal	333	2.81	-	33.75	7.10	34.89
PK	7.38538G	52.52	74.00	-21.48	42.13	3	Horizontal	218	2.84	-	37.00	8.57	35.18
AV	7.38536G	38.93	54.00	-15.07	28.54	3	Horizontal	218	2.84	-	37.00	8.57	35.18

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

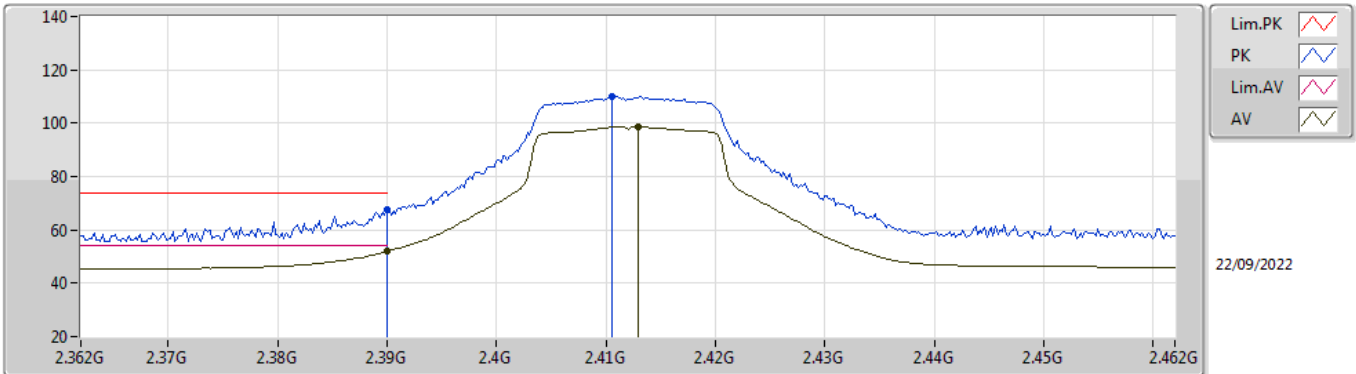


EUT X_1TX
Setting 18
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	68.99	74.00	-5.01	36.34	3	Vertical	29	1.76	-	28.26	4.39	-
AV	2.39G	53.51	54.00	-0.49	20.86	3	Vertical	29	1.76	-	28.26	4.39	-
PK	2.4132G	111.47	Inf	-Inf	78.76	3	Vertical	29	1.76	-	28.30	4.41	-
AV	2.413G	100.29	Inf	-Inf	67.58	3	Vertical	29	1.76	-	28.30	4.41	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

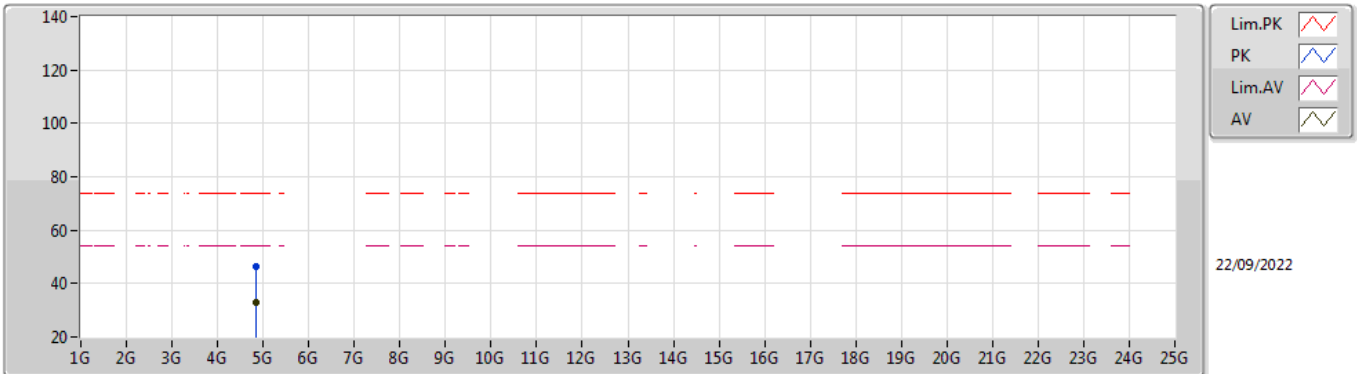


EUT X_1TX
Setting 18
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.39G	67.60	74.00	-6.40	34.95	3	Horizontal	268	2.97	-	28.26	4.39	-	
AV	2.39G	51.94	54.00	-2.06	19.29	3	Horizontal	268	2.97	-	28.26	4.39	-	
PK	2.4106G	110.18	Inf	-Inf	77.47	3	Horizontal	268	2.97	-	28.30	4.41	-	
AV	2.413G	98.85	Inf	-Inf	66.14	3	Horizontal	268	2.97	-	28.30	4.41	-	

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

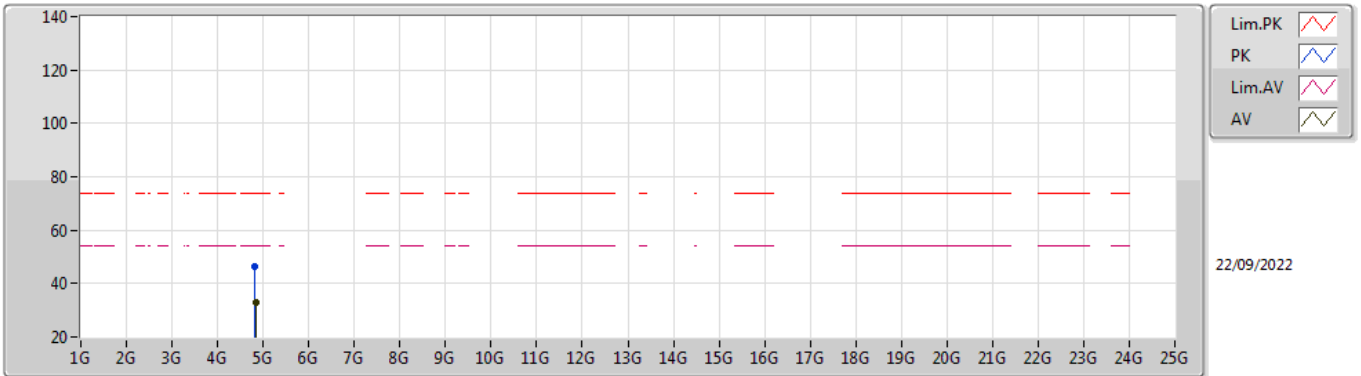


EUT X_1TX
Setting 18
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8351G	46.38	74.00	-27.62	40.77	3	Vertical	291	2.69	-	33.41	7.10	34.90
AV	4.83222G	32.84	54.00	-21.16	27.25	3	Vertical	291	2.69	-	33.39	7.10	34.90

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

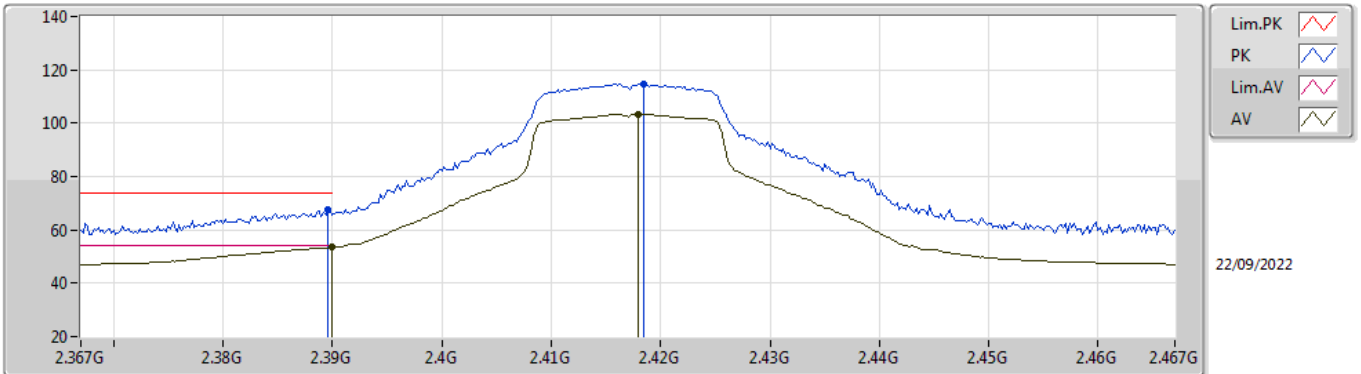


EUT X_1TX
Setting 18
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82616G	46.57	74.00	-27.43	41.01	3	Horizontal	267	2.45	-	33.36	7.10	34.90
AV	4.83192G	32.83	54.00	-21.17	27.24	3	Horizontal	267	2.45	-	33.39	7.10	34.90

802.11g_Nss1,(6Mbps)_1TX

2417MHz_TX

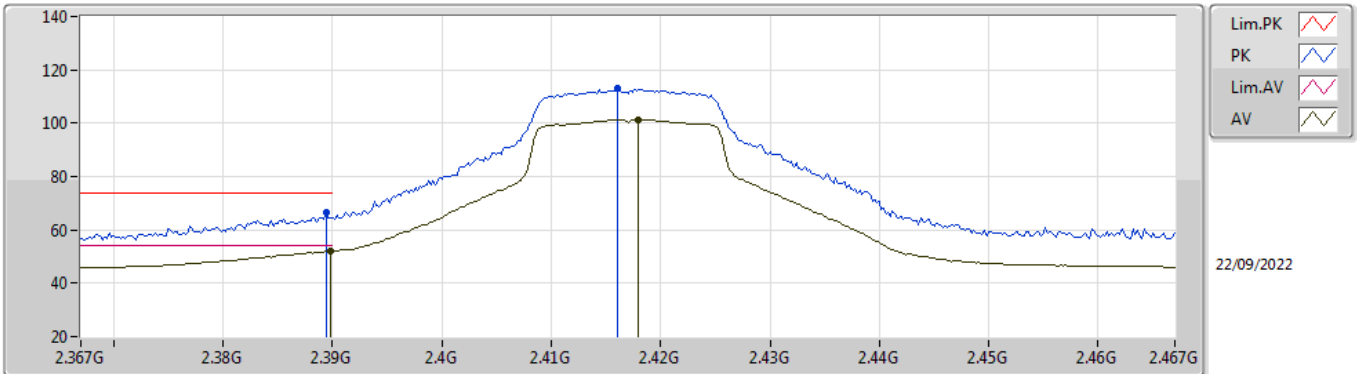


EUT X_1TX
Setting 21
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	67.72	74.00	-6.28	35.07	3	Vertical	27	1.34	-	28.26	4.39	-
AV	2.39G	53.45	54.00	-0.55	20.80	3	Vertical	27	1.34	-	28.26	4.39	-
PK	2.4184G	114.68	Inf	-Inf	81.97	3	Vertical	27	1.34	-	28.30	4.41	-
AV	2.418G	103.53	Inf	-Inf	70.82	3	Vertical	27	1.34	-	28.30	4.41	-

802.11g_Nss1,(6Mbps)_1TX

2417MHz_TX

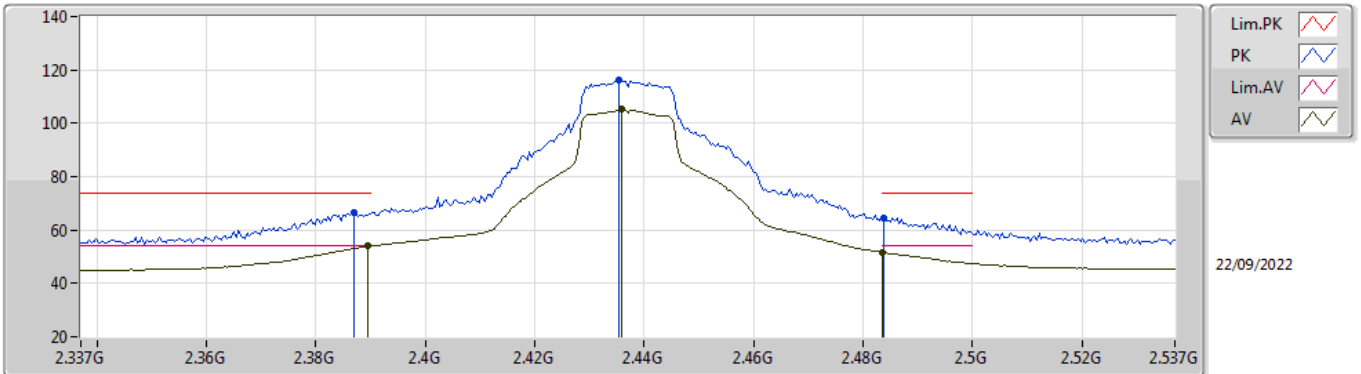


EUT X_1TX
Setting 21
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	66.47	74.00	-7.53	33.82	3	Horizontal	269	3.00	-	28.26	4.39	-
AV	2.3898G	52.08	54.00	-1.92	19.43	3	Horizontal	269	3.00	-	28.26	4.39	-
PK	2.416G	113.09	Inf	-Inf	80.38	3	Horizontal	269	3.00	-	28.30	4.41	-
AV	2.418G	101.42	Inf	-Inf	68.71	3	Horizontal	269	3.00	-	28.30	4.41	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

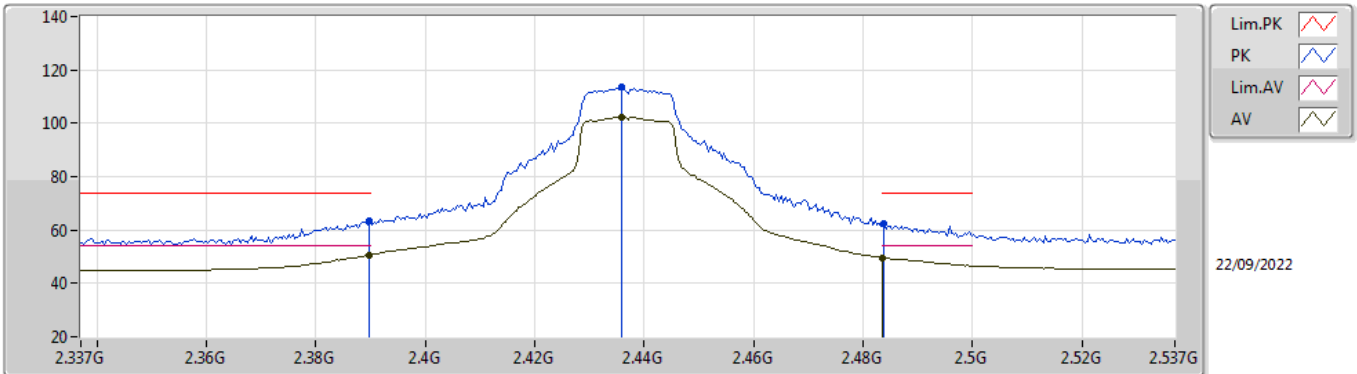


EUT X_1TX
Setting 23.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	66.34	74.00	-7.66	33.70	3	Vertical	27	1.07	-	28.25	4.39	-
AV	2.3894G	53.88	54.00	-0.12	21.23	3	Vertical	27	1.07	-	28.26	4.39	-
PK	2.4354G	116.25	Inf	-Inf	83.53	3	Vertical	27	1.07	-	28.30	4.42	-
AV	2.4358G	105.12	Inf	-Inf	72.40	3	Vertical	27	1.07	-	28.30	4.42	-
PK	2.4838G	64.69	74.00	-9.31	31.81	3	Vertical	27	1.07	-	28.44	4.44	-
AV	2.4835G	51.71	54.00	-2.29	18.84	3	Vertical	27	1.07	-	28.43	4.44	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

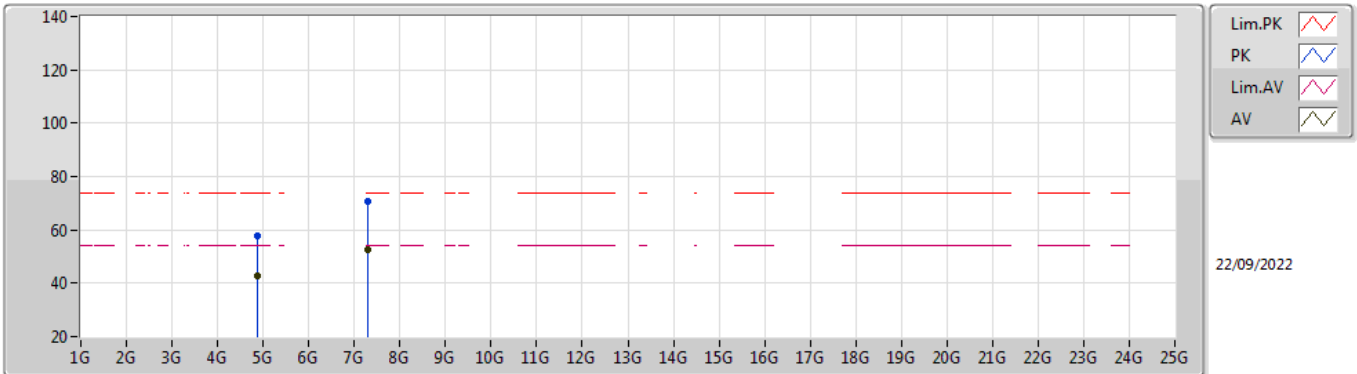


EUT_X_1TX
Setting 23.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	63.27	74.00	-10.73	30.62	3	Horizontal	258	2.94	-	28.26	4.39	-
AV	2.3898G	50.57	54.00	-3.43	17.92	3	Horizontal	258	2.94	-	28.26	4.39	-
PK	2.4358G	113.87	Inf	-Inf	81.15	3	Horizontal	258	2.94	-	28.30	4.42	-
AV	2.4358G	102.49	Inf	-Inf	69.77	3	Horizontal	258	2.94	-	28.30	4.42	-
PK	2.4838G	62.26	74.00	-11.74	29.38	3	Horizontal	258	2.94	-	28.44	4.44	-
AV	2.4835G	49.68	54.00	-4.32	16.81	3	Horizontal	258	2.94	-	28.43	4.44	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

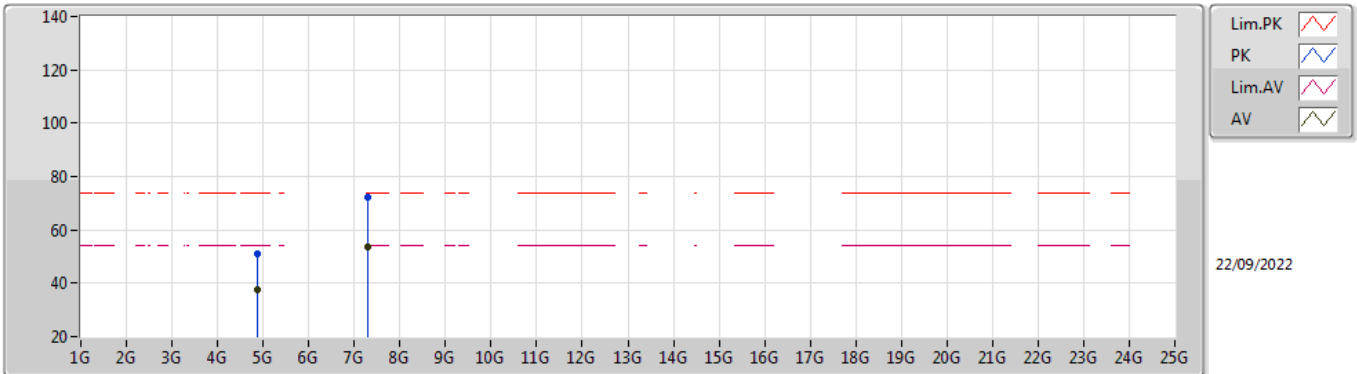


EUT X_1TX
Setting 23.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87412G	57.72	74.00	-16.28	51.92	3	Vertical	309	2.41	-	33.60	7.10	34.90
AV	4.87628G	42.66	54.00	-11.34	36.84	3	Vertical	309	2.41	-	33.61	7.10	34.89
PK	7.30812G	70.60	74.00	-3.40	60.40	3	Vertical	339	2.38	-	36.92	8.42	35.14
AV	7.30926G	52.77	54.00	-1.23	42.57	3	Vertical	339	2.38	-	36.92	8.42	35.14

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

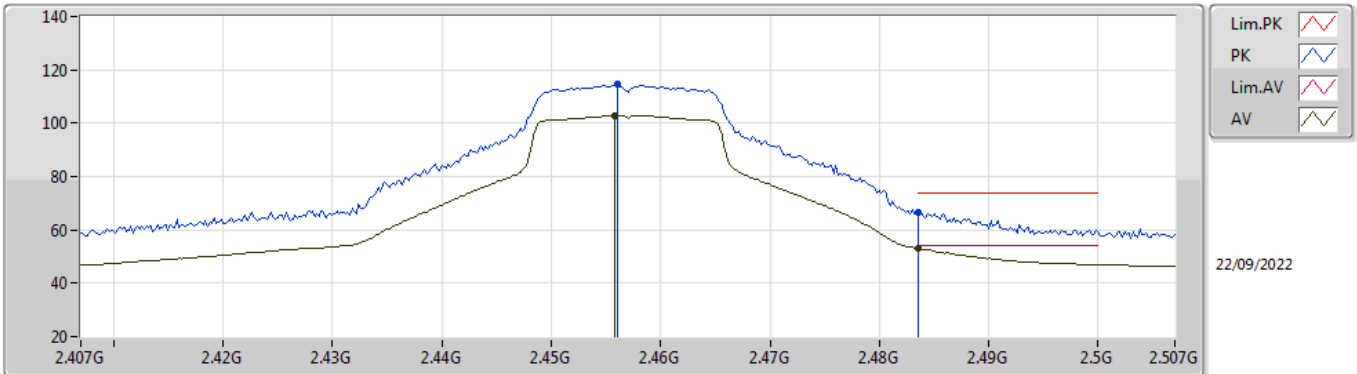


EUT X_1TX
Setting 23.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87034G	51.24	74.00	-22.76	45.46	3	Horizontal	319	1.01	-	33.58	7.10	34.90
AV	4.8722G	37.49	54.00	-16.51	31.70	3	Horizontal	319	1.01	-	33.59	7.10	34.90
PK	7.30794G	72.16	74.00	-1.84	61.96	3	Horizontal	318	2.66	-	36.92	8.42	35.14
AV	7.31004G	53.71	54.00	-0.29	43.51	3	Horizontal	318	2.66	-	36.92	8.42	35.14

802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX

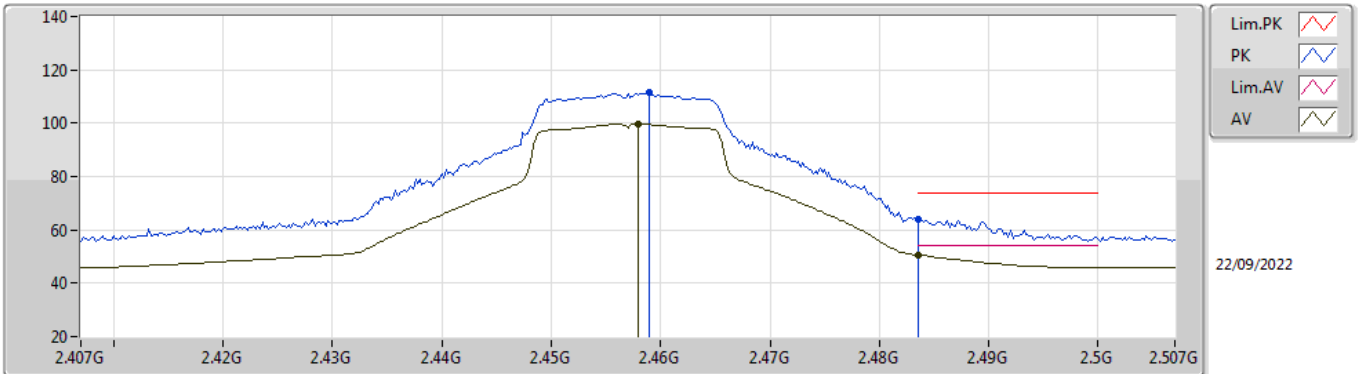


EUT X_1TX
Setting 22
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.456G	114.55	Inf	-Inf	81.80	3	Vertical	31	1.53	-	28.32	4.43	-	
AV	2.4558G	102.99	Inf	-Inf	70.24	3	Vertical	31	1.53	-	28.32	4.43	-	
PK	2.4835G	66.78	74.00	-7.22	33.91	3	Vertical	31	1.53	-	28.43	4.44	-	
AV	2.4835G	53.02	54.00	-0.98	20.15	3	Vertical	31	1.53	-	28.43	4.44	-	

802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX

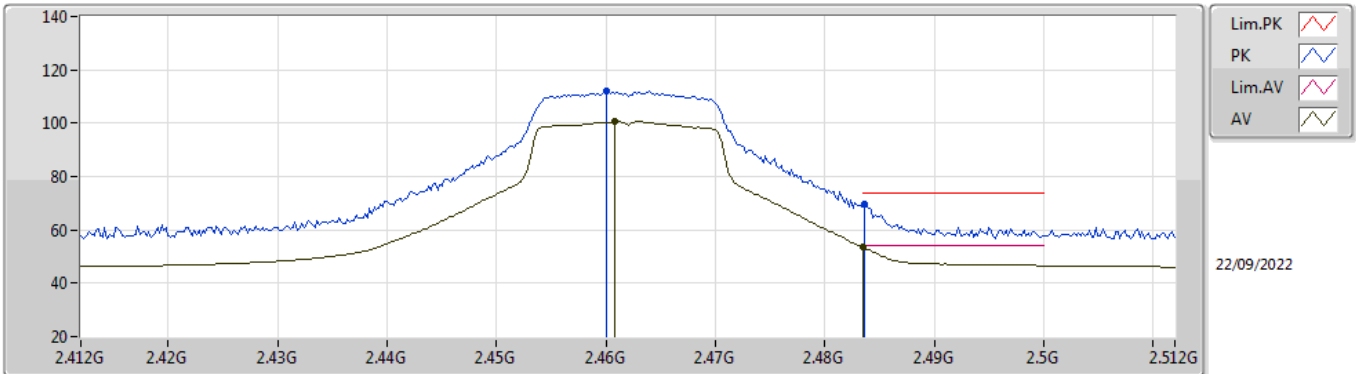


EUT_X_1TX
Setting 22
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.459G	111.31	Inf	-Inf	78.54	3	Horizontal	300	2.56	-	28.34	4.43	-
AV	2.458G	99.78	Inf	-Inf	67.02	3	Horizontal	300	2.56	-	28.33	4.43	-
PK	2.4836G	64.06	74.00	-9.94	31.19	3	Horizontal	300	2.56	-	28.43	4.44	-
AV	2.4836G	50.66	54.00	-3.34	17.79	3	Horizontal	300	2.56	-	28.43	4.44	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

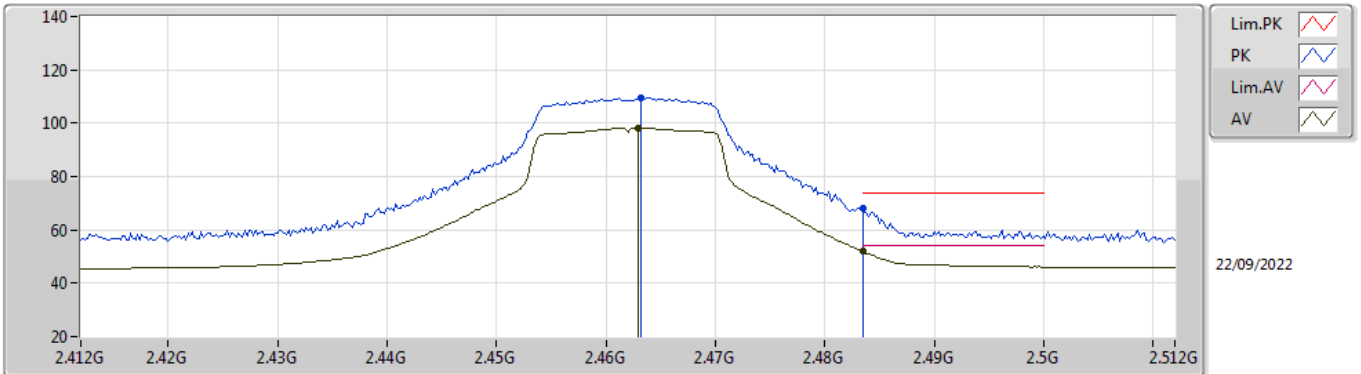


EUT X_1TX
Setting 19.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.46G	112.01	Inf	-Inf	79.24	3	Vertical	30	1.51	-	28.34	4.43	-
AV	2.4608G	100.55	Inf	-Inf	67.78	3	Vertical	30	1.51	-	28.34	4.43	-
PK	2.4836G	69.50	74.00	-4.50	36.63	3	Vertical	30	1.51	-	28.43	4.44	-
AV	2.4835G	53.71	54.00	-0.29	20.84	3	Vertical	30	1.51	-	28.43	4.44	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

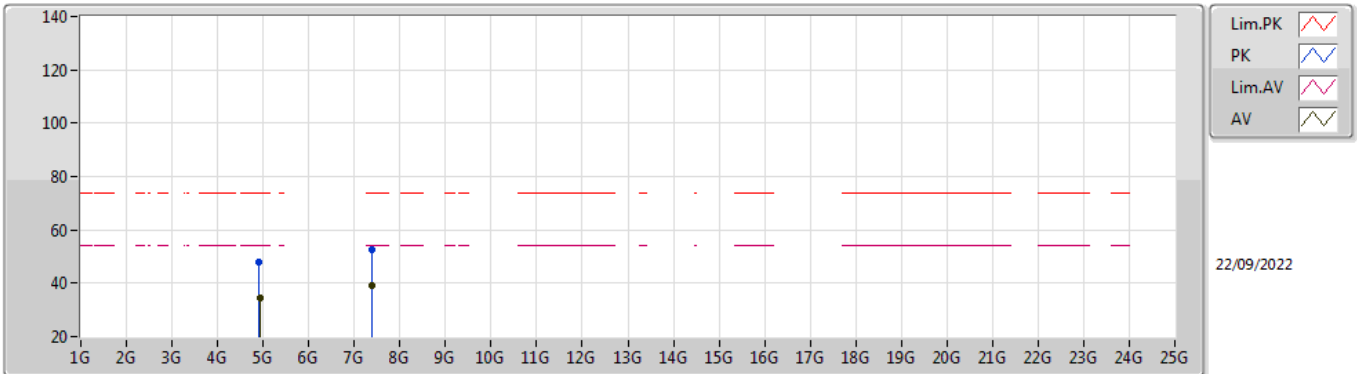


EUT X_1TX
Setting 19.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4632G	109.68	Inf	-Inf	76.90	3	Horizontal	274	2.83	-	28.35	4.43	-
AV	2.463G	98.25	Inf	-Inf	65.47	3	Horizontal	274	2.83	-	28.35	4.43	-
PK	2.4835G	67.90	74.00	-6.10	35.03	3	Horizontal	274	2.83	-	28.43	4.44	-
AV	2.4835G	52.01	54.00	-1.99	19.14	3	Horizontal	274	2.83	-	28.43	4.44	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

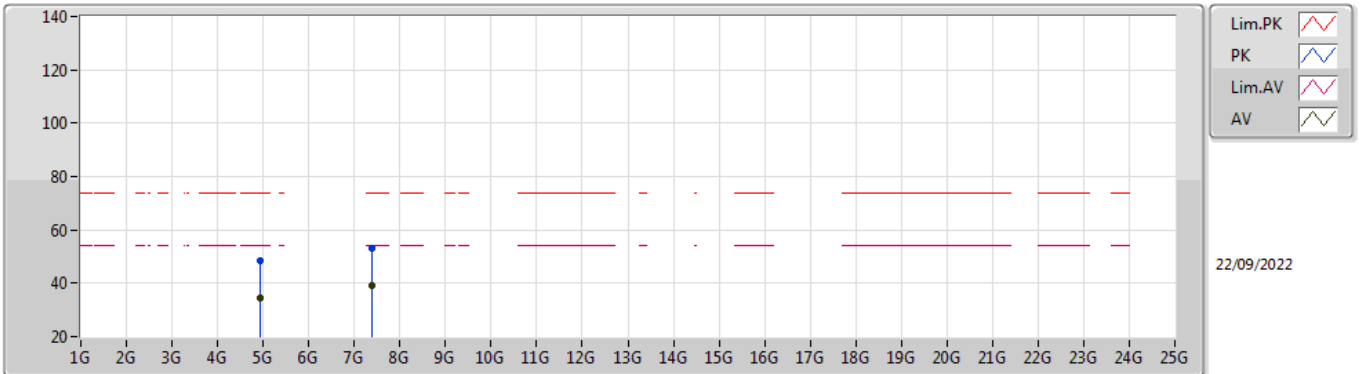


EUT X_1TX
Setting 19.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91872G	47.91	74.00	-26.09	41.96	3	Vertical	260	2.32	-	33.74	7.10	34.89
AV	4.9207G	34.33	54.00	-19.67	28.38	3	Vertical	260	2.32	-	33.74	7.10	34.89
PK	7.38768G	52.69	74.00	-21.31	42.29	3	Vertical	101	1.62	-	37.00	8.58	35.18
AV	7.3878G	39.06	54.00	-14.94	28.66	3	Vertical	101	1.62	-	37.00	8.58	35.18

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

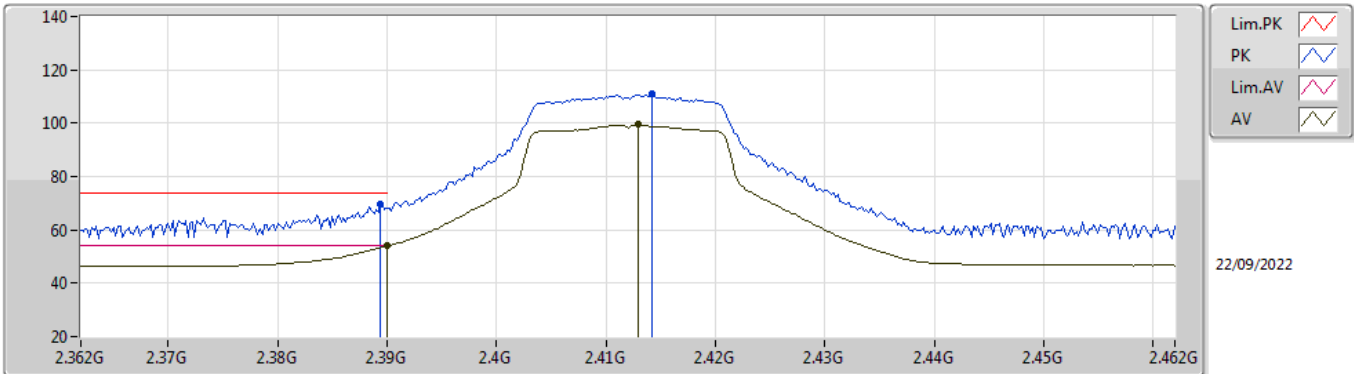


EUT X_1TX
Setting 19.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92664G	48.23	74.00	-25.77	42.27	3	Horizontal	172	1.73	-	33.75	7.10	34.89
AV	4.927G	34.33	54.00	-19.67	28.37	3	Horizontal	172	1.73	-	33.75	7.10	34.89
PK	7.38312G	53.22	74.00	-20.78	42.83	3	Horizontal	74	2.04	-	37.00	8.57	35.18
AV	7.38972G	38.99	54.00	-15.01	28.59	3	Horizontal	74	2.04	-	37.00	8.58	35.18

VHT20_Nss1,(MCS0)_1TX

2412MHz_TX

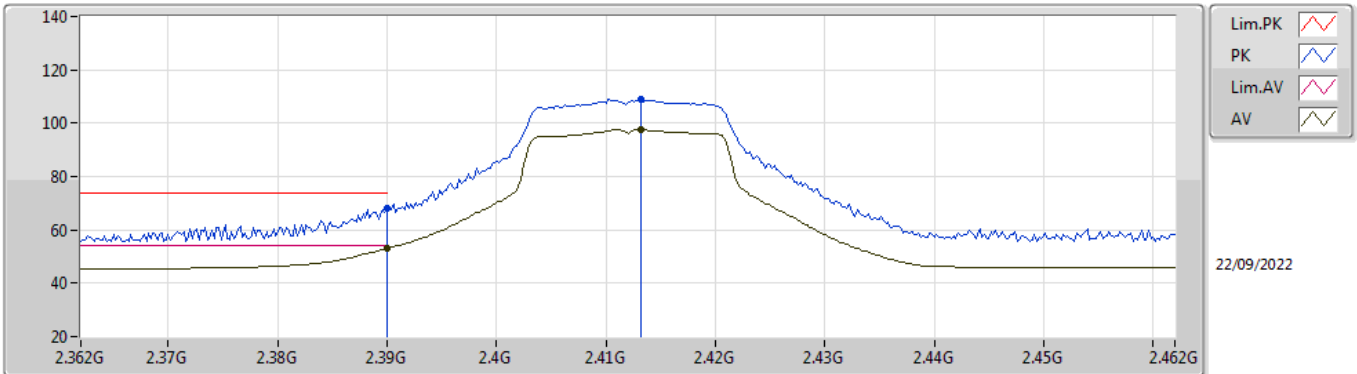


EUT X_1TX
Setting 17.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	69.74	74.00	-4.26	37.09	3	Vertical	28	1.78	-	28.26	4.39	-
AV	2.39G	53.91	54.00	-0.09	21.26	3	Vertical	28	1.78	-	28.26	4.39	-
PK	2.4142G	110.99	Inf	-Inf	78.28	3	Vertical	28	1.78	-	28.30	4.41	-
AV	2.413G	99.45	Inf	-Inf	66.74	3	Vertical	28	1.78	-	28.30	4.41	-

VHT20_Nss1,(MCS0)_1TX

2412MHz_TX

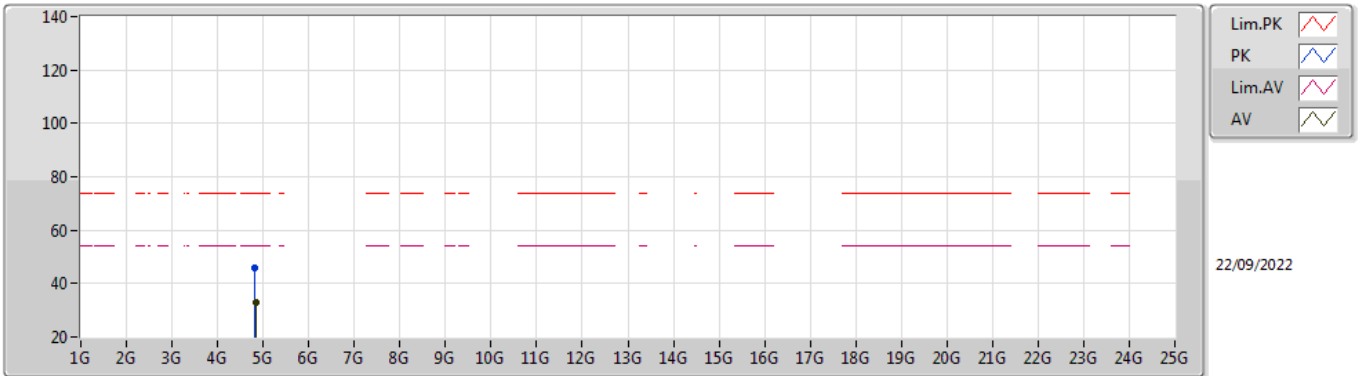


EUT X_1TX
Setting 17.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	67.86	74.00	-6.14	35.21	3	Horizontal	270	3.00	-	28.26	4.39	-
AV	2.39G	53.02	54.00	-0.98	20.37	3	Horizontal	270	3.00	-	28.26	4.39	-
PK	2.4132G	109.21	Inf	-Inf	76.50	3	Horizontal	270	3.00	-	28.30	4.41	-
AV	2.4132G	97.56	Inf	-Inf	64.85	3	Horizontal	270	3.00	-	28.30	4.41	-

VHT20_Nss1,(MCS0)_1TX

2412MHz_TX

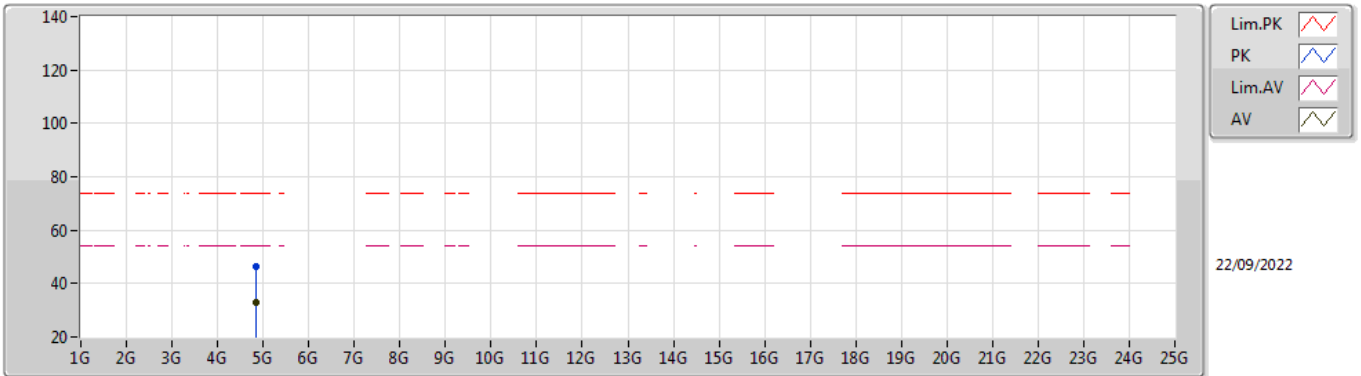


EUT X_1TX
Setting 17.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82388G	45.97	74.00	-28.03	40.43	3	Vertical	167	2.75	-	33.34	7.10	34.90
AV	4.8318G	32.80	54.00	-21.20	27.21	3	Vertical	167	2.75	-	33.39	7.10	34.90

VHT20_Nss1,(MCS0)_1TX

2412MHz_TX

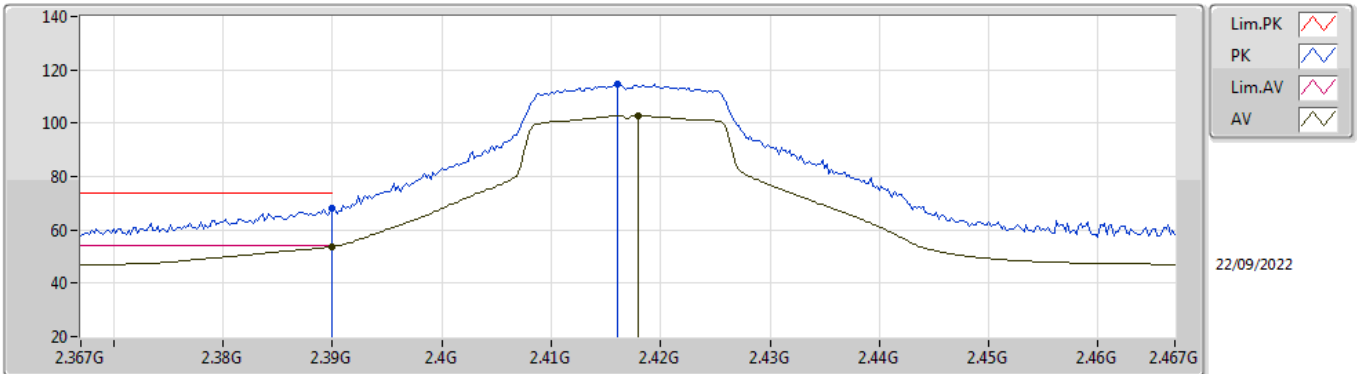


EUT X_1TX
Setting 17.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82922G	46.61	74.00	-27.39	41.03	3	Horizontal	205	2.53	-	33.38	7.10	34.90
AV	4.83198G	32.82	54.00	-21.18	27.23	3	Horizontal	205	2.53	-	33.39	7.10	34.90

VHT20_Nss1,(MCS0)_1TX

2417MHz_TX

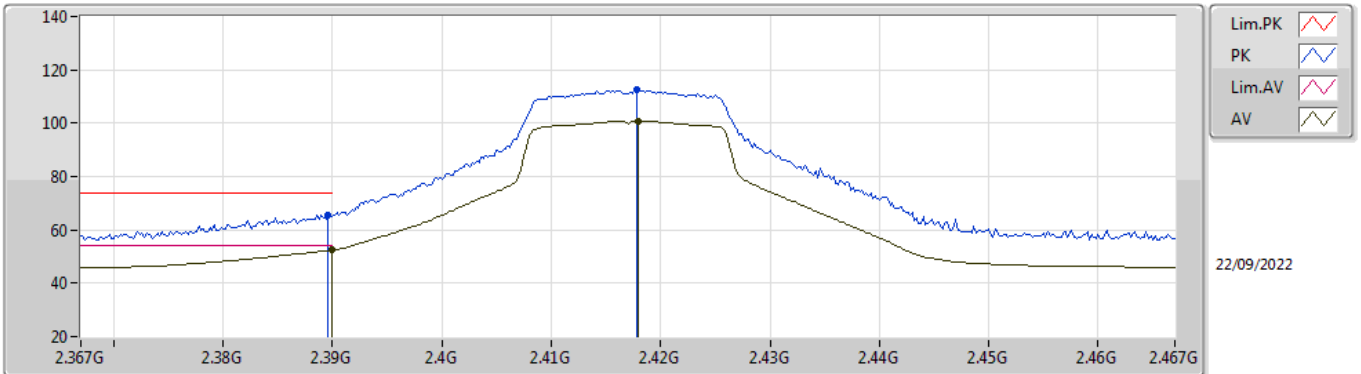


EUT X_1TX
Setting 21
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	68.29	74.00	-5.71	35.64	3	Vertical	28	1.34	-	28.26	4.39	-
AV	2.39G	53.73	54.00	-0.27	21.08	3	Vertical	28	1.34	-	28.26	4.39	-
PK	2.416G	114.59	Inf	-Inf	81.88	3	Vertical	28	1.34	-	28.30	4.41	-
AV	2.418G	102.97	Inf	-Inf	70.26	3	Vertical	28	1.34	-	28.30	4.41	-

VHT20_Nss1,(MCS0)_1TX

2417MHz_TX

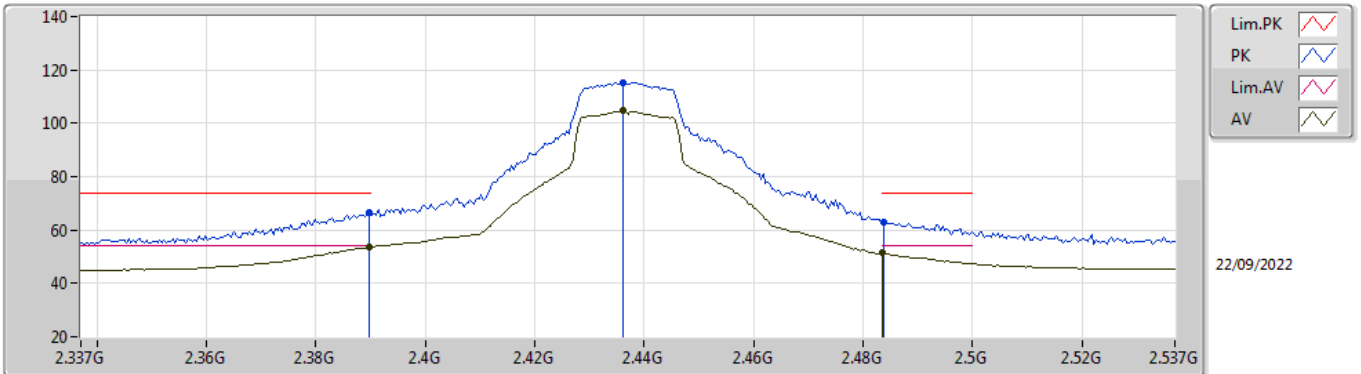


EUT X_1TX
Setting 21
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3896G	65.62	74.00	-8.38	32.97	3	Horizontal	271	3.00	-	28.26	4.39	-	
AV	2.39G	52.42	54.00	-1.58	19.77	3	Horizontal	271	3.00	-	28.26	4.39	-	
PK	2.4178G	112.58	Inf	-Inf	79.87	3	Horizontal	271	3.00	-	28.30	4.41	-	
AV	2.418G	100.94	Inf	-Inf	68.23	3	Horizontal	271	3.00	-	28.30	4.41	-	

VHT20_Nss1,(MCS0)_1TX

2437MHz_TX

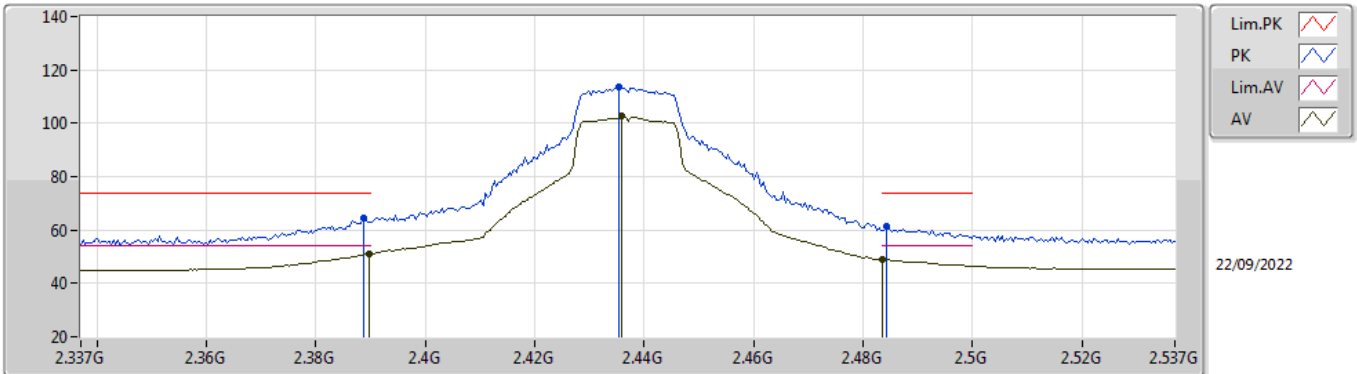


EUT X_1TX
Setting 23.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	66.46	74.00	-7.54	33.81	3	Vertical	27	1.05	-	28.26	4.39	-
AV	2.3898G	53.60	54.00	-0.40	20.95	3	Vertical	27	1.05	-	28.26	4.39	-
PK	2.4362G	115.10	Inf	-Inf	82.38	3	Vertical	27	1.05	-	28.30	4.42	-
AV	2.4362G	104.61	Inf	-Inf	71.89	3	Vertical	27	1.05	-	28.30	4.42	-
PK	2.4838G	63.10	74.00	-10.90	30.22	3	Vertical	27	1.05	-	28.44	4.44	-
AV	2.4835G	51.37	54.00	-2.63	18.50	3	Vertical	27	1.05	-	28.43	4.44	-

VHT20_Nss1,(MCS0)_1TX

2437MHz_TX

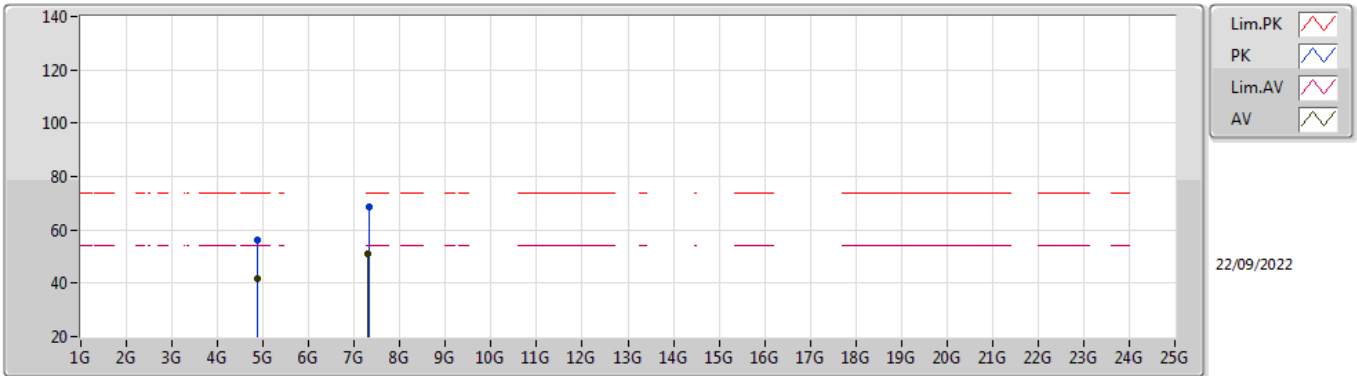


EUT X_1TX
Setting 23.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3886G	64.58	74.00	-9.42	31.94	3	Horizontal	271	2.93	-	28.25	4.39	-	
AV	2.3898G	50.98	54.00	-3.02	18.33	3	Horizontal	271	2.93	-	28.26	4.39	-	
PK	2.4354G	113.65	Inf	-Inf	80.93	3	Horizontal	271	2.93	-	28.30	4.42	-	
AV	2.4358G	102.54	Inf	-Inf	69.82	3	Horizontal	271	2.93	-	28.30	4.42	-	
PK	2.4842G	61.34	74.00	-12.66	28.46	3	Horizontal	271	2.93	-	28.44	4.44	-	
AV	2.4835G	49.12	54.00	-4.88	16.25	3	Horizontal	271	2.93	-	28.43	4.44	-	

VHT20_Nss1,(MCS0)_1TX

2437MHz_TX

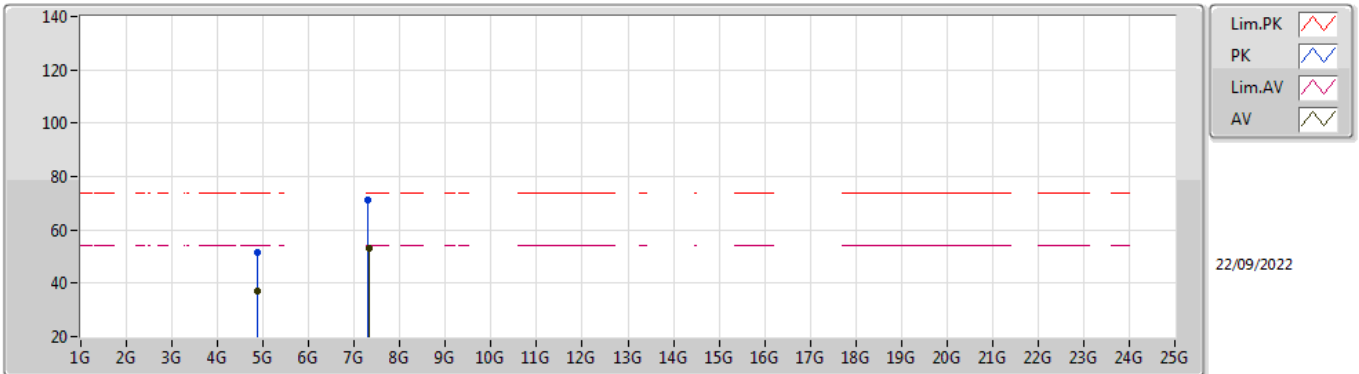


EUT X_1TX
Setting 23.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87514G	56.25	74.00	-17.75	50.44	3	Vertical	300	2.09	-	33.60	7.10	34.89
AV	4.87652G	41.51	54.00	-12.49	35.69	3	Vertical	300	2.09	-	33.61	7.10	34.89
PK	7.31286G	68.64	74.00	-5.36	58.42	3	Vertical	343	2.52	-	36.93	8.43	35.14
AV	7.30962G	51.25	54.00	-2.75	41.05	3	Vertical	343	2.52	-	36.92	8.42	35.14

VHT20_Nss1,(MCS0)_1TX

2437MHz_TX

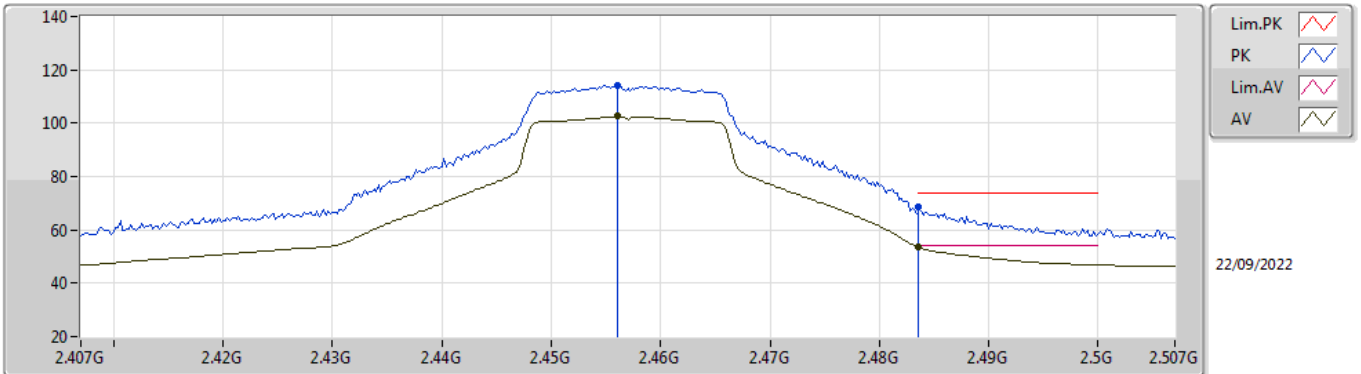


EUT X_1TX
Setting 23.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87178G	51.49	74.00	-22.51	45.70	3	Horizontal	321	1.00	-	33.59	7.10	34.90
AV	4.87262G	37.21	54.00	-16.79	31.42	3	Horizontal	321	1.00	-	33.59	7.10	34.90
PK	7.30902G	71.01	74.00	-2.99	60.81	3	Horizontal	312	2.63	-	36.92	8.42	35.14
AV	7.31124G	53.35	54.00	-0.65	43.15	3	Horizontal	312	2.63	-	36.92	8.42	35.14

VHT20_Nss1,(MCS0)_1TX

2457MHz_TX

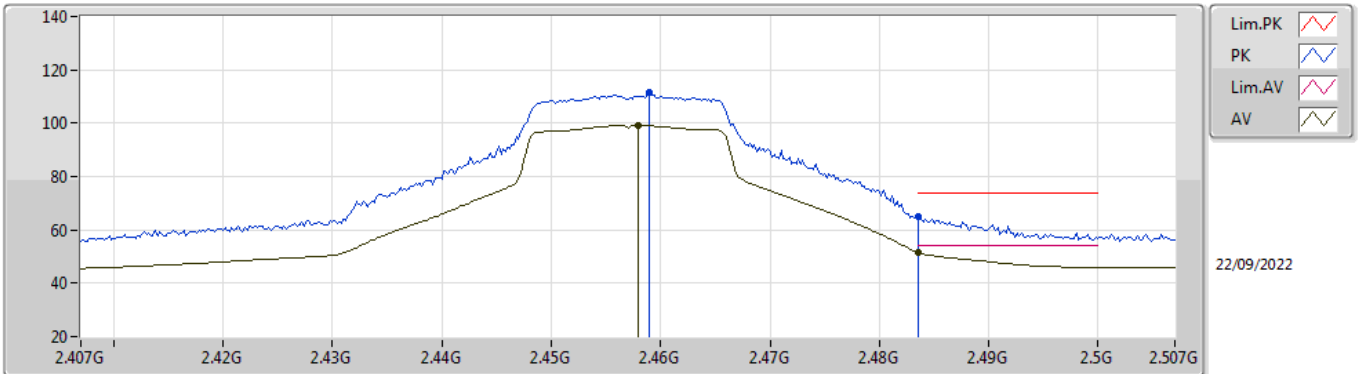


EUT X_1TX
Setting 22
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.456G	114.07	Inf	-Inf	81.32	3	Vertical	32	1.54	-	28.32	4.43	-	
AV	2.456G	102.56	Inf	-Inf	69.81	3	Vertical	32	1.54	-	28.32	4.43	-	
PK	2.4836G	68.45	74.00	-5.55	35.58	3	Vertical	32	1.54	-	28.43	4.44	-	
AV	2.4835G	53.69	54.00	-0.31	20.82	3	Vertical	32	1.54	-	28.43	4.44	-	

VHT20_Nss1,(MCS0)_1TX

2457MHz_TX

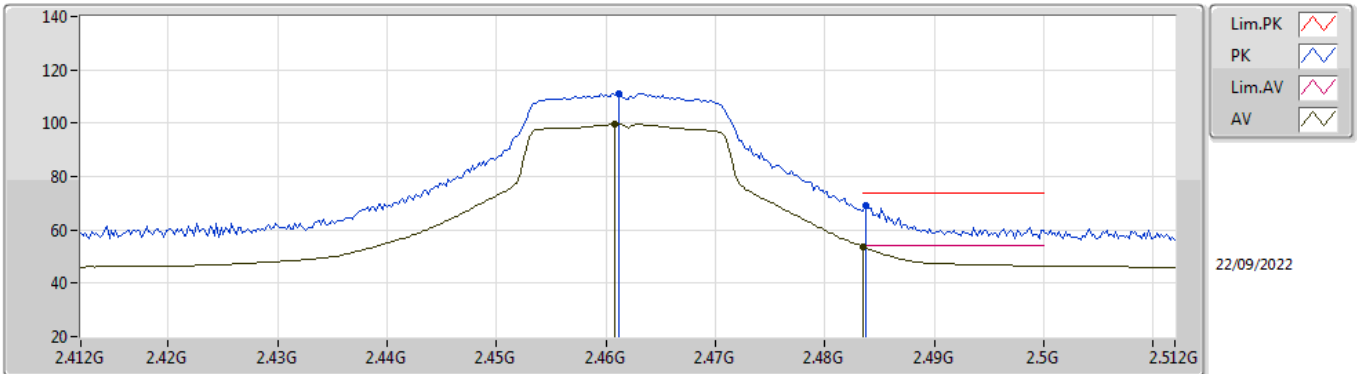


EUT X_1TX
Setting 22
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.459G	111.37	Inf	-Inf	78.60	3	Horizontal	309	2.56	-	28.34	4.43	-
AV	2.458G	99.37	Inf	-Inf	66.61	3	Horizontal	309	2.56	-	28.33	4.43	-
PK	2.4836G	64.76	74.00	-9.24	31.89	3	Horizontal	309	2.56	-	28.43	4.44	-
AV	2.4835G	51.44	54.00	-2.56	18.57	3	Horizontal	309	2.56	-	28.43	4.44	-

VHT20_Nss1,(MCS0)_1TX

2462MHz_TX

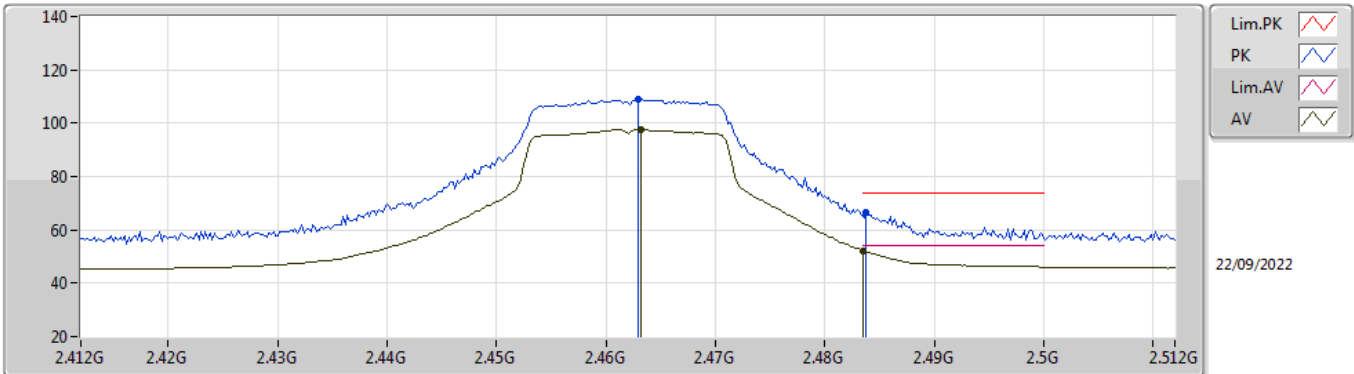


EUT X_1TX
Setting 19
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4612G	111.16	Inf	-Inf	78.39	3	Vertical	32	1.50	-	28.34	4.43	-
AV	2.4608G	99.62	Inf	-Inf	66.85	3	Vertical	32	1.50	-	28.34	4.43	-
PK	2.4838G	69.11	74.00	-4.89	36.23	3	Vertical	32	1.50	-	28.44	4.44	-
AV	2.4835G	53.71	54.00	-0.29	20.84	3	Vertical	32	1.50	-	28.43	4.44	-

VHT20_Nss1,(MCS0)_1TX

2462MHz_TX

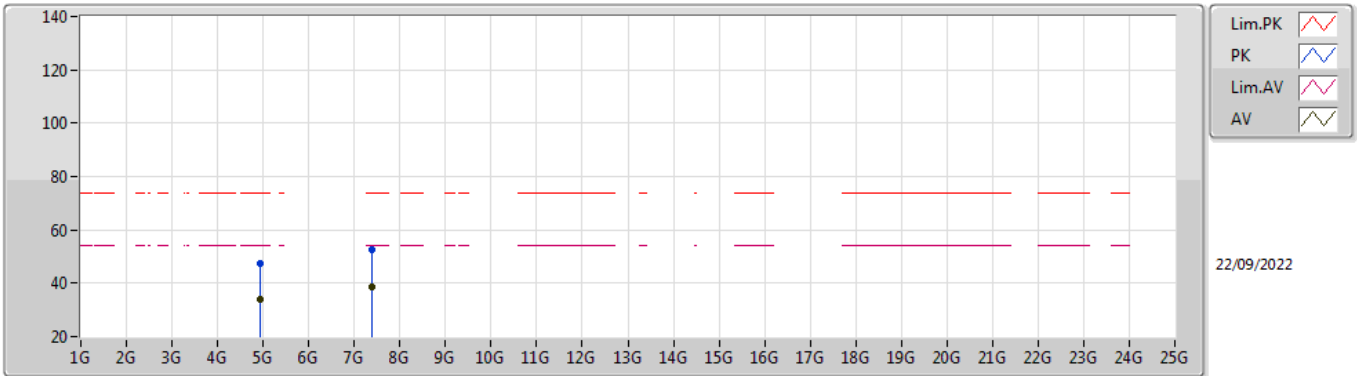


EUT X_1TX
Setting 19
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.463G	109.22	Inf	-Inf	76.44	3	Horizontal	266	2.83	-	28.35	4.43	-	
AV	2.4632G	97.68	Inf	-Inf	64.90	3	Horizontal	266	2.83	-	28.35	4.43	-	
PK	2.4838G	66.37	74.00	-7.63	33.49	3	Horizontal	266	2.83	-	28.44	4.44	-	
AV	2.4835G	52.31	54.00	-1.69	19.44	3	Horizontal	266	2.83	-	28.43	4.44	-	

VHT20_Nss1,(MCS0)_1TX

2462MHz_TX

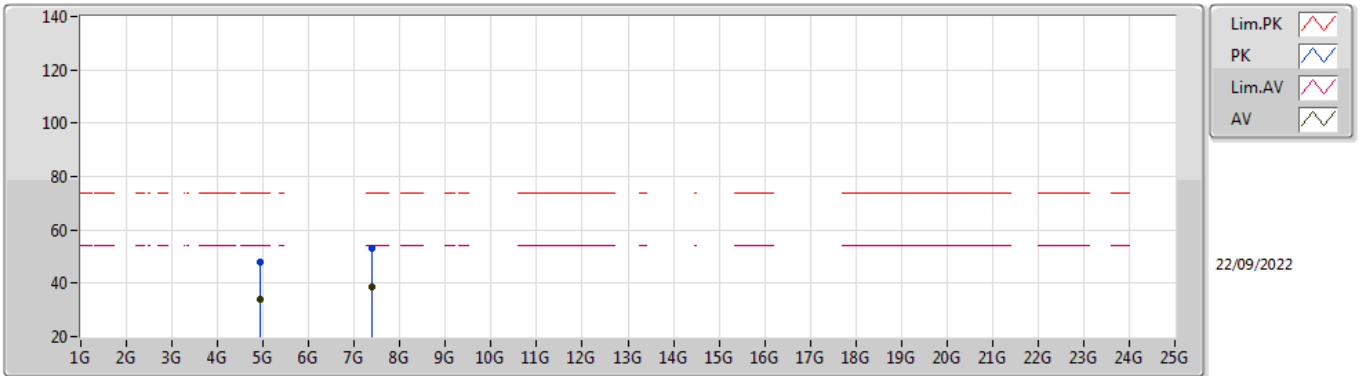


EUT X_1TX
Setting 19
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.93102G	47.20	74.00	-26.80	41.23	3	Vertical	55	2.68	-	33.76	7.10	34.89
AV	4.92802G	33.92	54.00	-20.08	27.95	3	Vertical	55	2.68	-	33.76	7.10	34.89
PK	7.37874G	52.47	74.00	-21.53	42.08	3	Vertical	65	2.52	-	37.00	8.56	35.17
AV	7.38966G	38.65	54.00	-15.35	28.25	3	Vertical	65	2.52	-	37.00	8.58	35.18

VHT20_Nss1,(MCS0)_1TX

2462MHz_TX

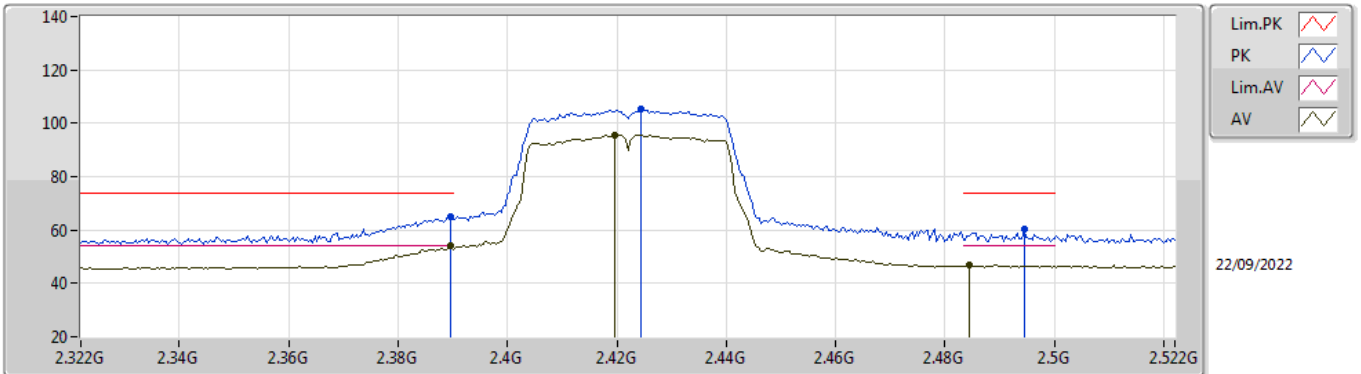


EUT X_1TX
Setting 19
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9291G	47.74	74.00	-26.26	41.77	3	Horizontal	13	1.84	-	33.76	7.10	34.89
AV	4.92904G	33.92	54.00	-20.08	27.95	3	Horizontal	13	1.84	-	33.76	7.10	34.89
PK	7.395G	52.93	74.00	-21.07	42.52	3	Horizontal	107	2.37	-	37.00	8.59	35.18
AV	7.3899G	38.64	54.00	-15.36	28.24	3	Horizontal	107	2.37	-	37.00	8.58	35.18

VHT40_Nss1,(MCS0)_1TX

2422MHz_TX

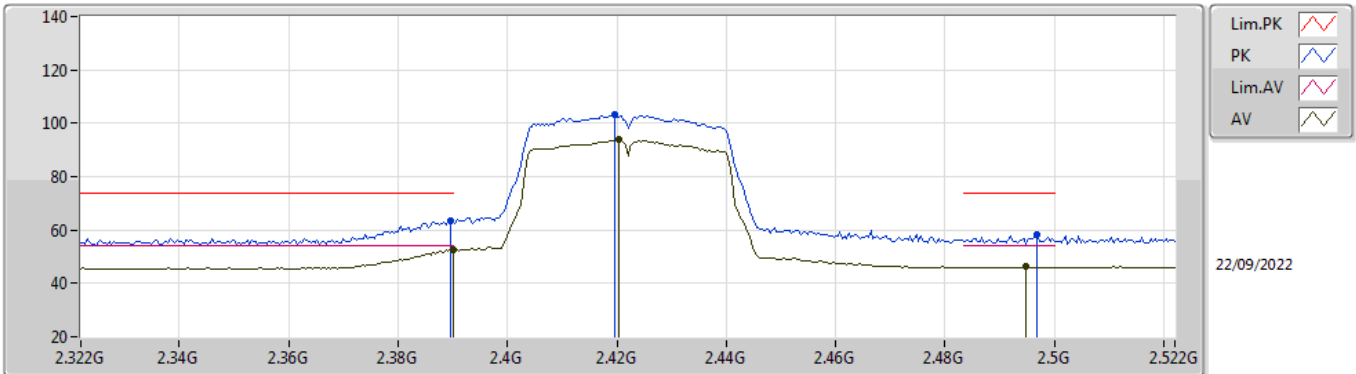


EUT X_1TX
Setting 14
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	64.94	74.00	-9.06	32.29	3	Vertical	30	1.34	-	28.26	4.39	-
AV	2.3896G	53.94	54.00	-0.06	21.29	3	Vertical	30	1.34	-	28.26	4.39	-
PK	2.4244G	105.38	Inf	-Inf	72.67	3	Vertical	30	1.34	-	28.30	4.41	-
AV	2.4196G	95.76	Inf	-Inf	63.05	3	Vertical	30	1.34	-	28.30	4.41	-
PK	2.4944G	60.41	74.00	-13.59	27.48	3	Vertical	30	1.34	-	28.48	4.45	-
AV	2.4844G	46.75	54.00	-7.25	13.87	3	Vertical	30	1.34	-	28.44	4.44	-

VHT40_Nss1,(MCS0)_1TX

2422MHz_TX

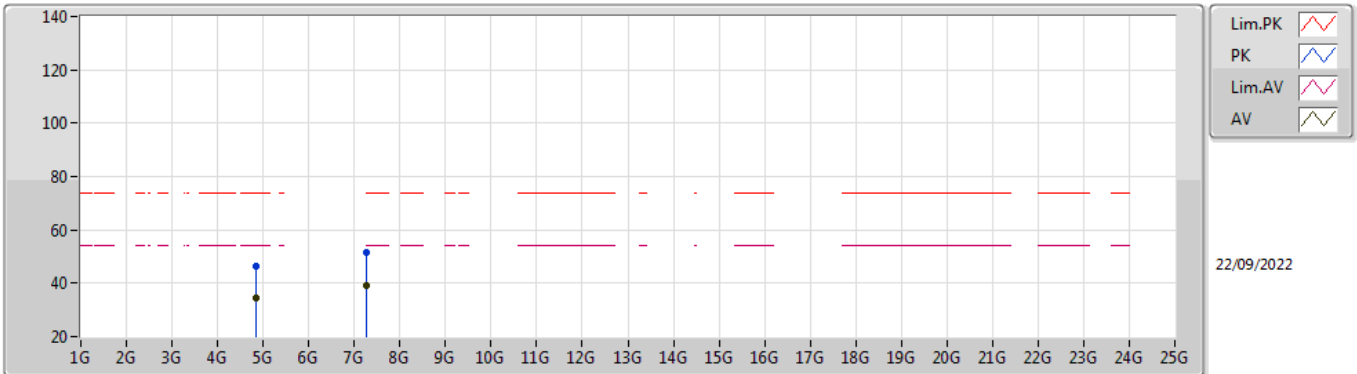


EUT X_1TX
Setting 14
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	63.31	74.00	-10.69	30.66	3	Horizontal	270	3.00	-	28.26	4.39	-
AV	2.39G	52.63	54.00	-1.37	19.98	3	Horizontal	270	3.00	-	28.26	4.39	-
PK	2.4196G	103.23	Inf	-Inf	70.52	3	Horizontal	270	3.00	-	28.30	4.41	-
AV	2.4204G	93.99	Inf	-Inf	61.28	3	Horizontal	270	3.00	-	28.30	4.41	-
PK	2.4968G	58.20	74.00	-15.80	25.26	3	Horizontal	270	3.00	-	28.49	4.45	-
AV	2.4948G	46.23	54.00	-7.77	13.30	3	Horizontal	270	3.00	-	28.48	4.45	-

VHT40_Nss1,(MCS0)_1TX

2422MHz_TX

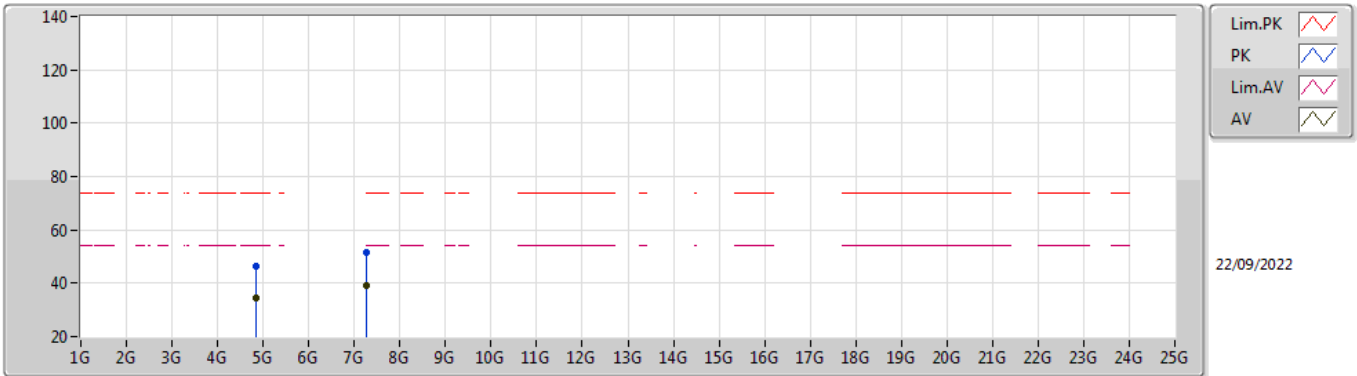


EUT X_1TX
Setting 14
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84172G	46.43	74.00	-27.57	40.78	3	Vertical	77	1.70	-	33.45	7.10	34.90
AV	4.84116G	34.24	54.00	-19.76	28.59	3	Vertical	77	1.70	-	33.45	7.10	34.90
PK	7.2566G	51.39	74.00	-22.61	41.47	3	Vertical	155	2.13	-	36.73	8.31	35.12
AV	7.25868G	39.01	54.00	-14.99	29.08	3	Vertical	155	2.13	-	36.73	8.32	35.12

VHT40_Nss1,(MCS0)_1TX

2422MHz_TX

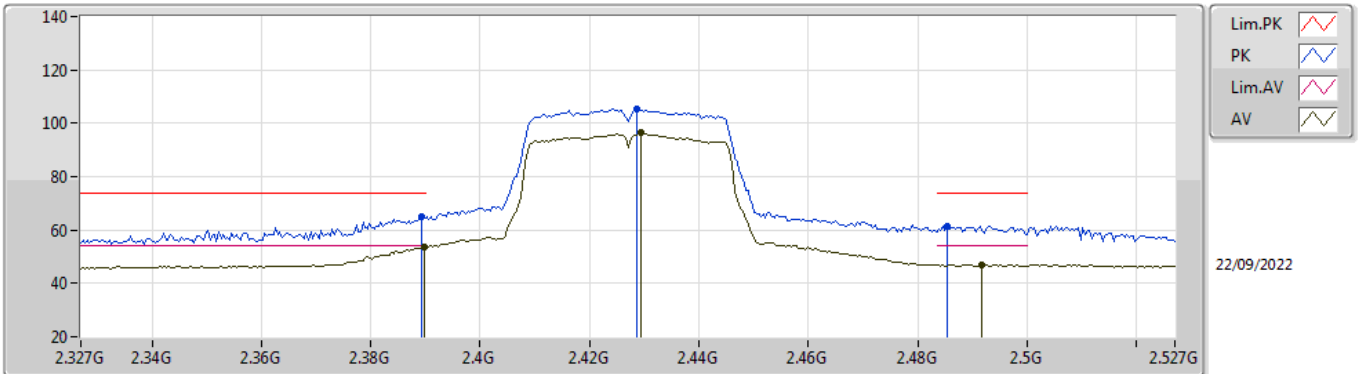


EUT X_1TX
Setting 14
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.85116G	46.43	74.00	-27.57	40.73	3	Horizontal	276	2.87	-	33.50	7.10	34.90
AV	4.8394G	34.23	54.00	-19.77	28.59	3	Horizontal	276	2.87	-	33.44	7.10	34.90
PK	7.27148G	51.34	74.00	-22.66	41.33	3	Horizontal	117	2.45	-	36.79	8.34	35.12
AV	7.25924G	39.14	54.00	-14.86	29.20	3	Horizontal	117	2.45	-	36.74	8.32	35.12

VHT40_Nss1,(MCS0)_1TX

2427MHz_TX

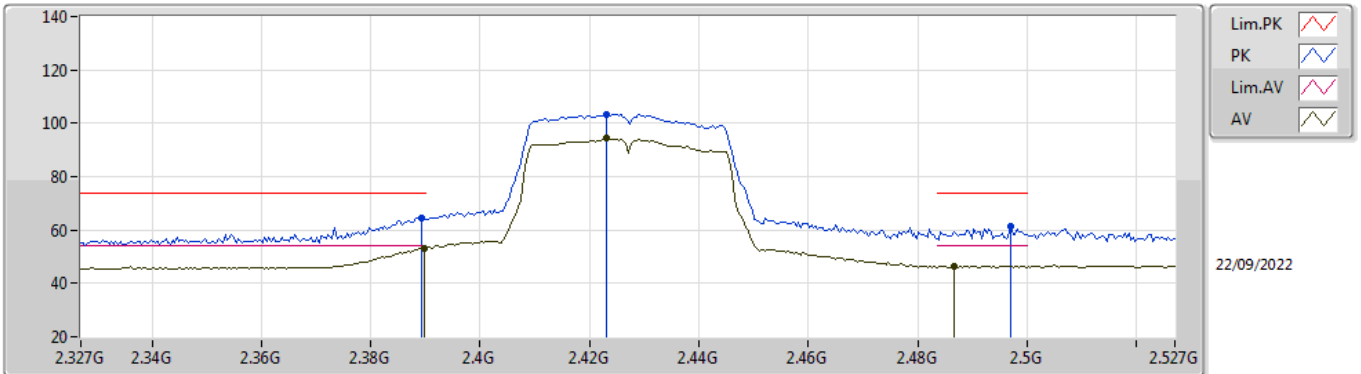


EUT X_1TX
Setting 15
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	64.90	74.00	-9.10	32.25	3	Vertical	32	1.69	-	28.26	4.39	-
AV	2.3898G	53.66	54.00	-0.34	21.01	3	Vertical	32	1.69	-	28.26	4.39	-
PK	2.4286G	105.50	Inf	-Inf	72.79	3	Vertical	32	1.69	-	28.30	4.41	-
AV	2.4294G	96.32	Inf	-Inf	63.61	3	Vertical	32	1.69	-	28.30	4.41	-
PK	2.4854G	61.47	74.00	-12.53	28.59	3	Vertical	32	1.69	-	28.44	4.44	-
AV	2.4918G	46.97	54.00	-7.03	14.05	3	Vertical	32	1.69	-	28.47	4.45	-

VHT40_Nss1,(MCS0)_1TX

2427MHz_TX

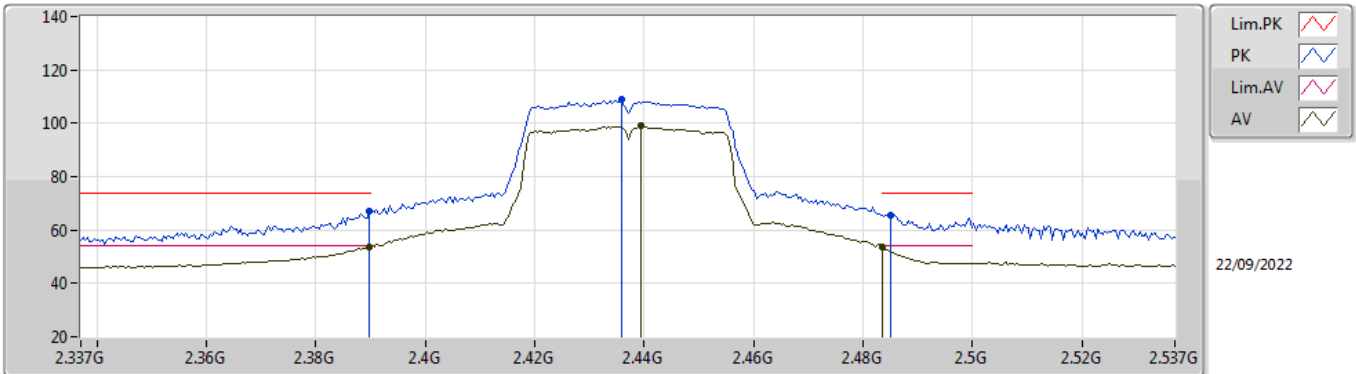


EUT X_1TX
Setting 15
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	64.57	74.00	-9.43	31.92	3	Horizontal	272	3.00	-	28.26	4.39	-
AV	2.3898G	53.22	54.00	-0.78	20.57	3	Horizontal	272	3.00	-	28.26	4.39	-
PK	2.423G	103.46	Inf	-Inf	70.75	3	Horizontal	272	3.00	-	28.30	4.41	-
AV	2.423G	94.42	Inf	-Inf	61.71	3	Horizontal	272	3.00	-	28.30	4.41	-
PK	2.497G	61.13	74.00	-12.87	28.19	3	Horizontal	272	3.00	-	28.49	4.45	-
AV	2.4866G	46.43	54.00	-7.57	13.54	3	Horizontal	272	3.00	-	28.45	4.44	-

VHT40_Nss1,(MCS0)_1TX

2437MHz_TX

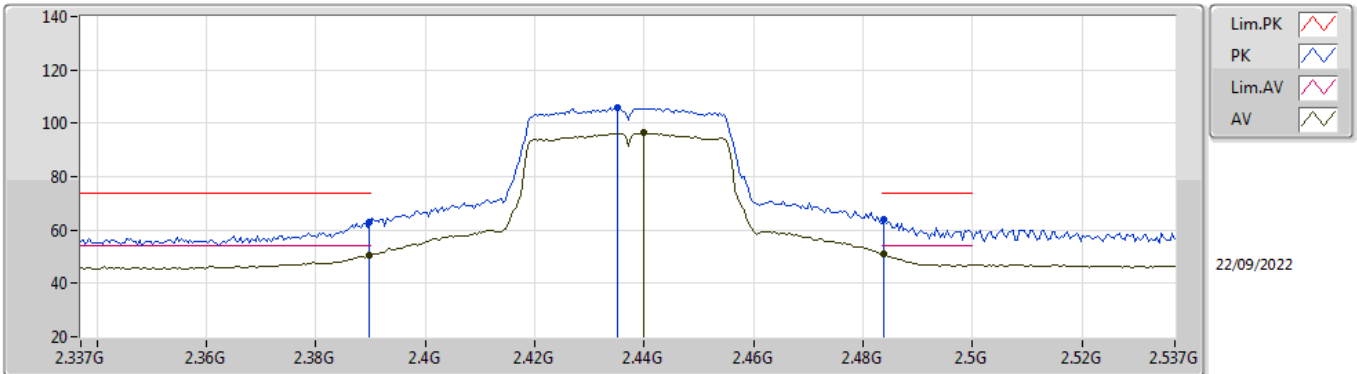


EUT X_1TX
Setting 18
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	66.91	74.00	-7.09	34.26	3	Vertical	32	1.33	-	28.26	4.39	-
AV	2.3898G	53.57	54.00	-0.43	20.92	3	Vertical	32	1.33	-	28.26	4.39	-
PK	2.4358G	108.83	Inf	-Inf	76.11	3	Vertical	32	1.33	-	28.30	4.42	-
AV	2.4394G	98.90	Inf	-Inf	66.18	3	Vertical	32	1.33	-	28.30	4.42	-
PK	2.485G	65.75	74.00	-8.25	32.87	3	Vertical	32	1.33	-	28.44	4.44	-
AV	2.4835G	53.47	54.00	-0.53	20.60	3	Vertical	32	1.33	-	28.43	4.44	-

VHT40_Nss1,(MCS0)_1TX

2437MHz_TX

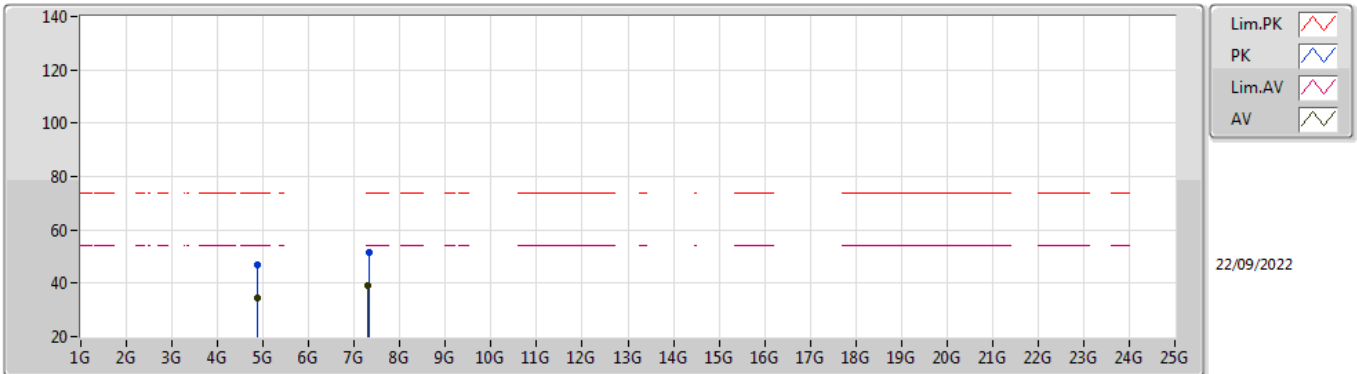


EUT X_1TX
Setting 18
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	62.72	74.00	-11.28	30.07	3	Horizontal	256	2.62	-	28.26	4.39	-
AV	2.3898G	50.30	54.00	-3.70	17.65	3	Horizontal	256	2.62	-	28.26	4.39	-
PK	2.435G	105.91	Inf	-Inf	73.19	3	Horizontal	256	2.62	-	28.30	4.42	-
AV	2.4398G	96.51	Inf	-Inf	63.79	3	Horizontal	256	2.62	-	28.30	4.42	-
PK	2.4838G	63.83	74.00	-10.17	30.95	3	Horizontal	256	2.62	-	28.44	4.44	-
AV	2.4838G	51.13	54.00	-2.87	18.25	3	Horizontal	256	2.62	-	28.44	4.44	-

VHT40_Nss1,(MCS0)_1TX

2437MHz_TX

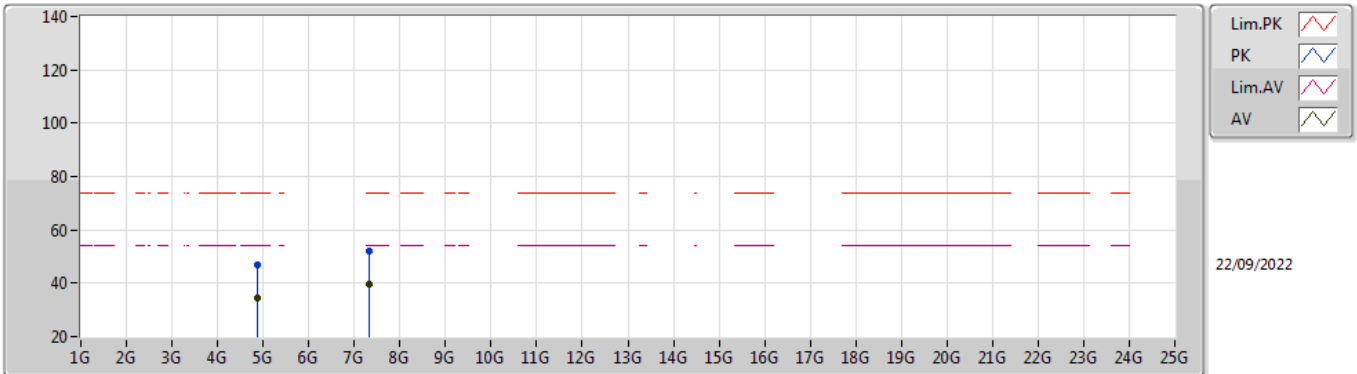


EUT X_1TX
Setting 18
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86644G	46.74	74.00	-27.26	40.97	3	Vertical	21	2.27	-	33.57	7.10	34.90
AV	4.87516G	34.46	54.00	-19.54	28.65	3	Vertical	21	2.27	-	33.60	7.10	34.89
PK	7.31904G	51.72	74.00	-22.28	41.49	3	Vertical	81	1.31	-	36.94	8.44	35.15
AV	7.30904G	39.26	54.00	-14.74	29.06	3	Vertical	81	1.31	-	36.92	8.42	35.14

VHT40_Nss1,(MCS0)_1TX

2437MHz_TX

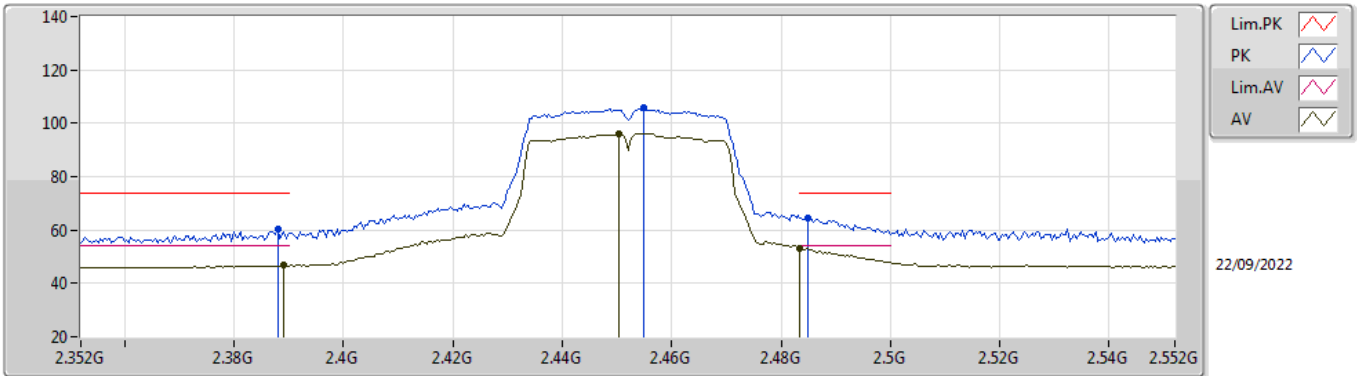


EUT X_1TX
Setting 18
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86976G	47.11	74.00	-26.89	41.33	3	Horizontal	232	1.84	-	33.58	7.10	34.90
AV	4.87628G	34.51	54.00	-19.49	28.69	3	Horizontal	232	1.84	-	33.61	7.10	34.89
PK	7.32028G	52.11	74.00	-21.89	41.88	3	Horizontal	174	1.08	-	36.94	8.44	35.15
AV	7.31684G	39.40	54.00	-14.60	29.19	3	Horizontal	174	1.08	-	36.93	8.43	35.15

VHT40_Nss1,(MCS0)_1TX

2452MHz_TX

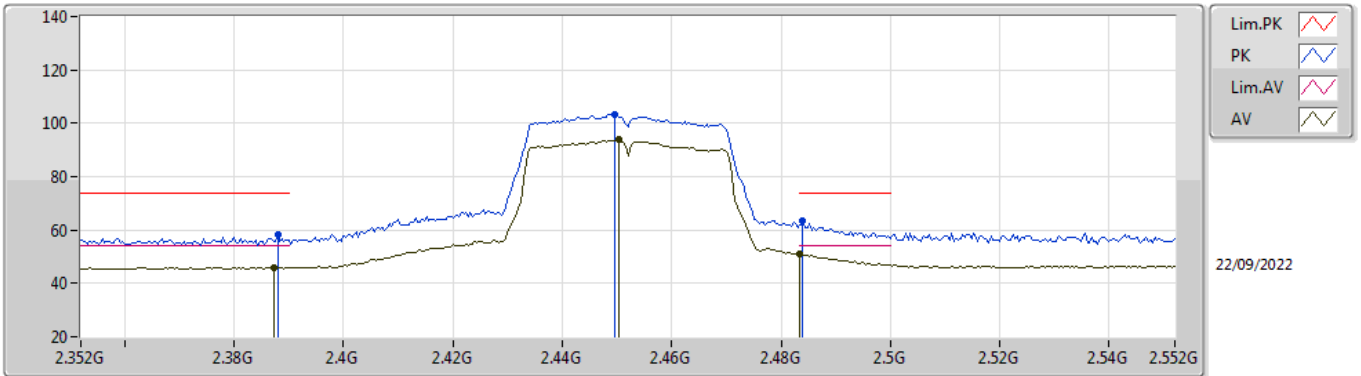


EUT X_1TX
Setting 15.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	60.24	74.00	-13.76	27.60	3	Vertical	27	1.51	-	28.25	4.39	-
AV	2.3892G	46.72	54.00	-7.28	14.07	3	Vertical	27	1.51	-	28.26	4.39	-
PK	2.4548G	105.86	Inf	-Inf	73.11	3	Vertical	27	1.51	-	28.32	4.43	-
AV	2.4504G	96.15	Inf	-Inf	63.42	3	Vertical	27	1.51	-	28.30	4.43	-
PK	2.4848G	64.52	74.00	-9.48	31.64	3	Vertical	27	1.51	-	28.44	4.44	-
AV	2.4835G	53.17	54.00	-0.83	20.30	3	Vertical	27	1.51	-	28.43	4.44	-

VHT40_Nss1,(MCS0)_1TX

2452MHz_TX

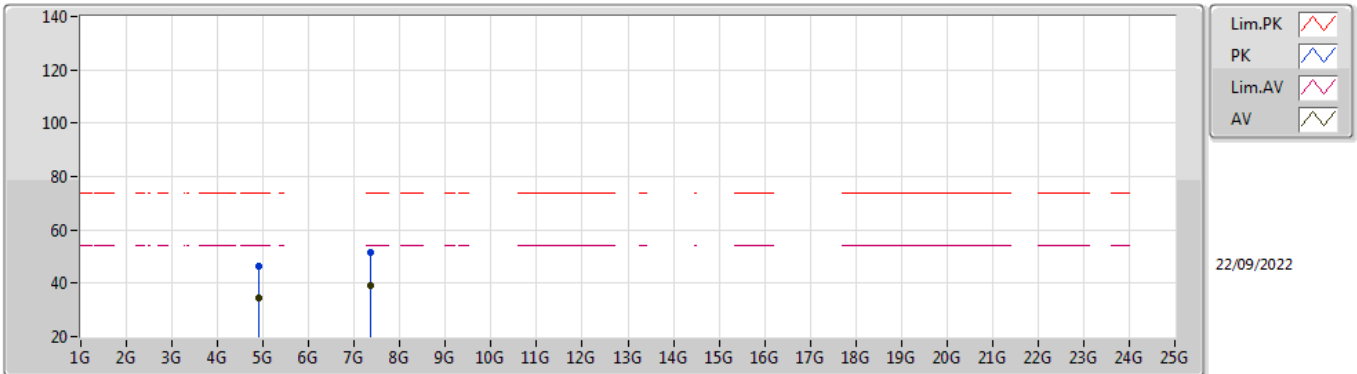


EUT X_1TX
Setting 15.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	58.19	74.00	-15.81	25.55	3	Horizontal	284	2.88	-	28.25	4.39	-
AV	2.3872G	46.07	54.00	-7.93	13.43	3	Horizontal	284	2.88	-	28.25	4.39	-
PK	2.4496G	103.39	Inf	-Inf	70.67	3	Horizontal	284	2.88	-	28.30	4.42	-
AV	2.4504G	93.74	Inf	-Inf	61.01	3	Horizontal	284	2.88	-	28.30	4.43	-
PK	2.484G	63.22	74.00	-10.78	30.34	3	Horizontal	284	2.88	-	28.44	4.44	-
AV	2.4835G	51.12	54.00	-2.88	18.25	3	Horizontal	284	2.88	-	28.43	4.44	-

VHT40_Nss1,(MCS0)_1TX

2452MHz_TX

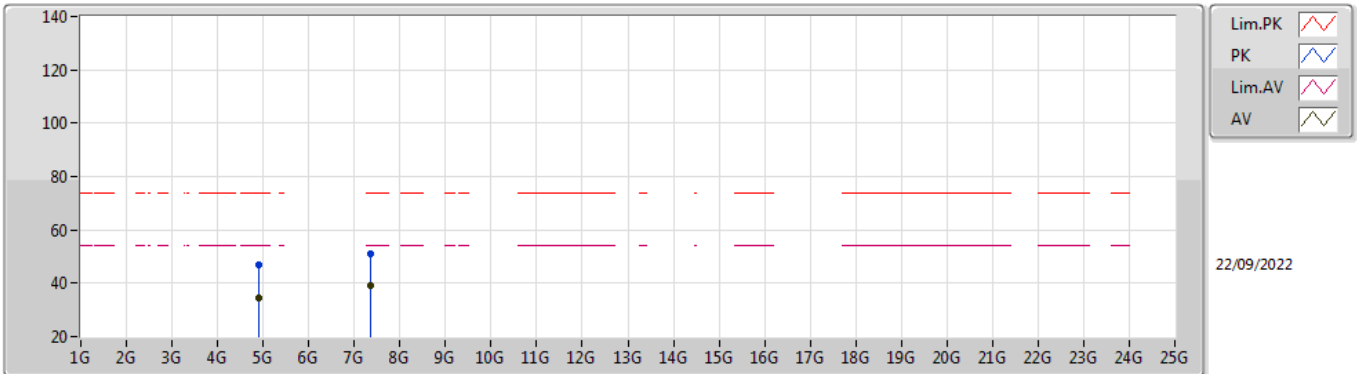


EUT X_1TX
Setting 15.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90092G	46.47	74.00	-27.53	40.56	3	Vertical	190	1.63	-	33.70	7.10	34.89
AV	4.90988G	34.50	54.00	-19.50	28.57	3	Vertical	190	1.63	-	33.72	7.10	34.89
PK	7.34716G	51.42	74.00	-22.58	41.10	3	Vertical	171	1.42	-	36.99	8.49	35.16
AV	7.36128G	39.30	54.00	-14.70	28.95	3	Vertical	171	1.42	-	37.00	8.52	35.17

VHT40_Nss1,(MCS0)_1TX

2452MHz_TX



EUT X_1TX
Setting 15.5
03-D-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.89936G	46.90	74.00	-27.10	40.99	3	Horizontal	199	2.47	-	33.70	7.10	34.89
AV	4.91132G	34.27	54.00	-19.73	28.34	3	Horizontal	199	2.47	-	33.72	7.10	34.89
PK	7.35608G	51.15	74.00	-22.85	40.80	3	Horizontal	111	1.54	-	37.00	8.51	35.16
AV	7.36188G	39.35	54.00	-14.65	29.00	3	Horizontal	111	1.54	-	37.00	8.52	35.17



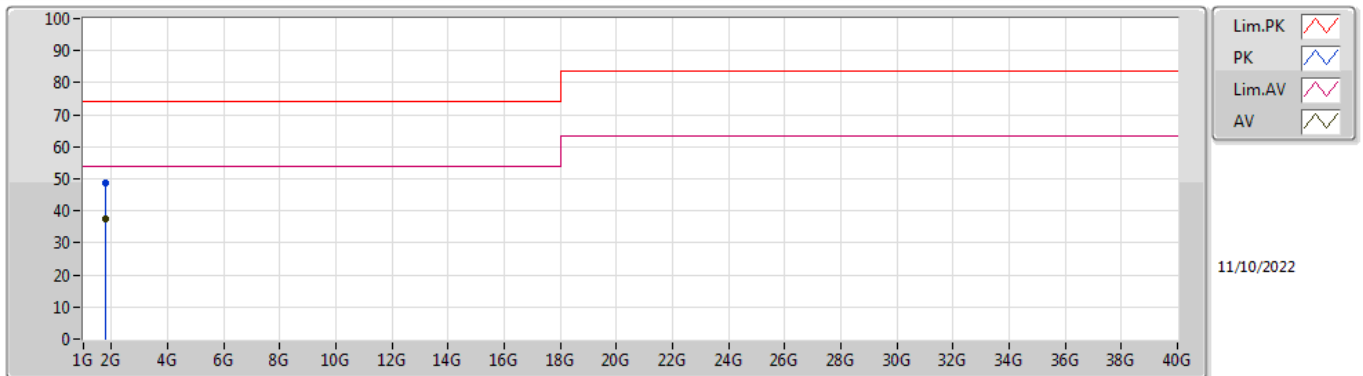
Radiated Emissions above 1GHz

Appendix G

Summary

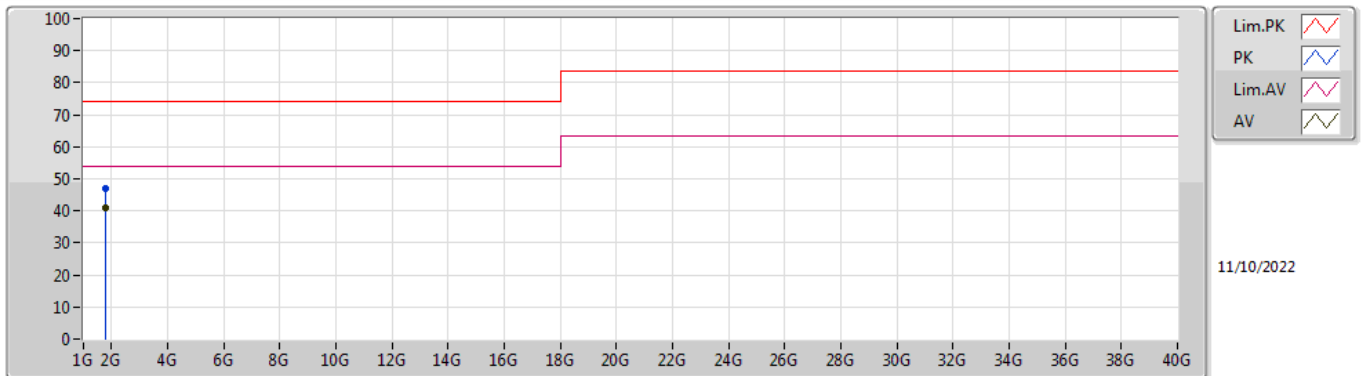
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.77765G	41.14	54.00	-12.86	Horizontal

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	1.78035G	48.78	74.00	-25.22	-7.43	3	Vertical	164	2.15	-	56.21	25.20	3.78	36.41
AV	1.77779G	37.34	54.00	-16.66	-7.43	3	Vertical	164	2.15	"Worst"	44.77	25.20	3.78	36.41

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.78027G	46.83	74.00	-27.17	-7.43	3	Horizontal	178	1.58	-	54.26	25.20	3.78	36.41
AV	1.77765G	41.14	54.00	-12.86	-7.43	3	Horizontal	178	1.58	"Worst"	48.57	25.20	3.78	36.41