Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	HEDOAP100E
Equipment	:	802.11ac Wave 2 Dual-Band Enterprise Access Point
Brand Name	:	Edgecore
Model Name	:	OAP100e
Applicant	:	Accton Technology Corp No. 1, Creation Rd. III, Science-based Industrial Park Hsin Chu 30077, Taiwan R.O.C.
Manufacturer (1)	:	Accton Technology Corp No. 1, Creation Rd. III, Science-based Industrial Park Hsin Chu 30077, Taiwan R.O.C.
Manufacturer (2)	:	Accton Technology Corporation Zhunan Factory 1F & 4F & 5F , No. 1, Keyi St., Zhunan Township, Miaoli County 350, Taiwan
Standard	:	47 CFR FCC Part 15.247

The product was received on Feb. 15, 2022, and testing was started from Feb. 15, 2022 and completed on Apr. 07, 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.

Approved by: Sam Chen

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

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR972347-06AA	01	Initial issue of report	May 10, 2022

Summary of Test Result

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

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen
Report Producer: Jessie Wei

1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX

Note:
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port				Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz	Blue tooth	GPS					
1	1	-	-	-	ACCTON	OAP 100-1018-EC	PCB Dipole Antenna	I-PEX	Note 1
2	2	-	-	-	ACCTON	OAP 100-1018-EC	PCB Dipole Antenna	I-PEX	
3		1	-	-	ACCTON	OAP 100-1018-EC	Dipole Antenna	I-PEX	
4		2	-	-	ACCTON	OAP 100-1018-EC	Dipole Antenna	I-PEX	
5	-	-	1	-	ACCTON	OAP 100-1018-EC	PCB Dipole Antenna	I-PEX	
6	-	-	-	1	Master Wave	OAP 100-1018-EC	Chip Antenna	I-PEX	

Note 1

Ant.	Gain (dBi)			
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	GPS
1	5.4	-	-	-
2	5.66	-	-	-
3	-	8.213	-	-
4	-	8.213	-	-
5	-	-	4.5	-
6	-	-	-	3.76

Note 2: The above information was declared by manufacturer.

<For 2.4GHz Band>

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For 5GHz Band>

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

<Bluetooth>

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

Note 3: Directional gain information

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

Ex.

Directional Gain (NSS1) formula : $Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

NSS1(g1,1) = $10^{G1/20}$; NSS1(g1,2)= $10^{G2/20}$; NSS1(g1,2)= $10^{G3/20}$; NSS1(g1,2)= $10^{G4/20}$

$g_{j,k}$ =(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4))^2

DG = 10 log[(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4))^2 / N_{ANT}] => 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / N_{ANT}]

Where ;

2.4G G1 = 5.4 ; G2 = 5.66

5G G1 = 8.213 ; G2 = 8.213

2.4G DG = 8.54 dBi

5 GHz U-NII-1 DG = 11.223 dBi

5 GHz U-NII-3 DG = 11.223 dBi

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.992	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.959	0.18	2.066m	1k
802.11n HT20	0.983	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40	0.966	0.15	2.43m	1k

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From PoE or DC 24V			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	QDART-Connectivity1.0-00048、QRCT V3.0.264.0、DOS(V6.1.7601)			

Note: The above information was declared by manufacturer.

1.2 Applicable Standards

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

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

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

- FCC KDB 558074 D01 v05r02
- FCC KDB 662911 D01 v02r01
- FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Lucas Huang	22.8~23.4 / 62~64	Feb. 21, 2022~ Mar. 23, 2022
Radiated below 1GHz	03CH04-CB	Ken Yeh	24.5~25.6 / 56~59	Feb. 15, 2022~ Apr. 07, 2022
Radiated above 1GHz	03CH02-CB	Ken Yeh	24.2~26.1 / 55~58	
AC Conduction	CO01-CB	Joe Chu	21~22 / 51~52	Feb. 18, 2022

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	24
2437MHz	21
2462MHz	23.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	18.5
2417MHz	20.5
2437MHz	24.5
2457MHz	20.5
2462MHz	19
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	16.5
2417MHz	21.5
2437MHz	24.5
2457MHz	20.5
2462MHz	17
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	15
2427MHz	15.5
2437MHz	20.5
2452MHz	16

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	PoE Mode
2	DC 24V Mode
For operating mode 1 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	EUT in Z axis + PoE – 2.4GHz
2	EUT in Z axis + DC 24V – 2.4GHz
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3~4 will follow this same test mode.	
3	EUT in X axis + PoE – 5GHz
4	EUT in Y axis + PoE – Bluetooth
For operating mode 3 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 Z axis for Harmonic and Y axis for Bandedge. So the measurement will follow this same test configuration.	
1	EUT in Z axis for Harmonic and EUT in Y axis for Bandedge

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA972347-06 for Co-location RF Exposure Evaluation.	

Note: The PoE below is for measurement only, would not be marketed.
The PoE information as below:

Support Unit	Brand	Model Number
PoE	CISCO	MA-INJ-5

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories	
No.	**Equipment Name**
1	Wall-mounted rack*1
2	DC Terminal plug*1
3	Cable glands*2
4	Console cable (RJ-45 to DB-9)*1

2.5 Support Equipment

For AC Conduction:

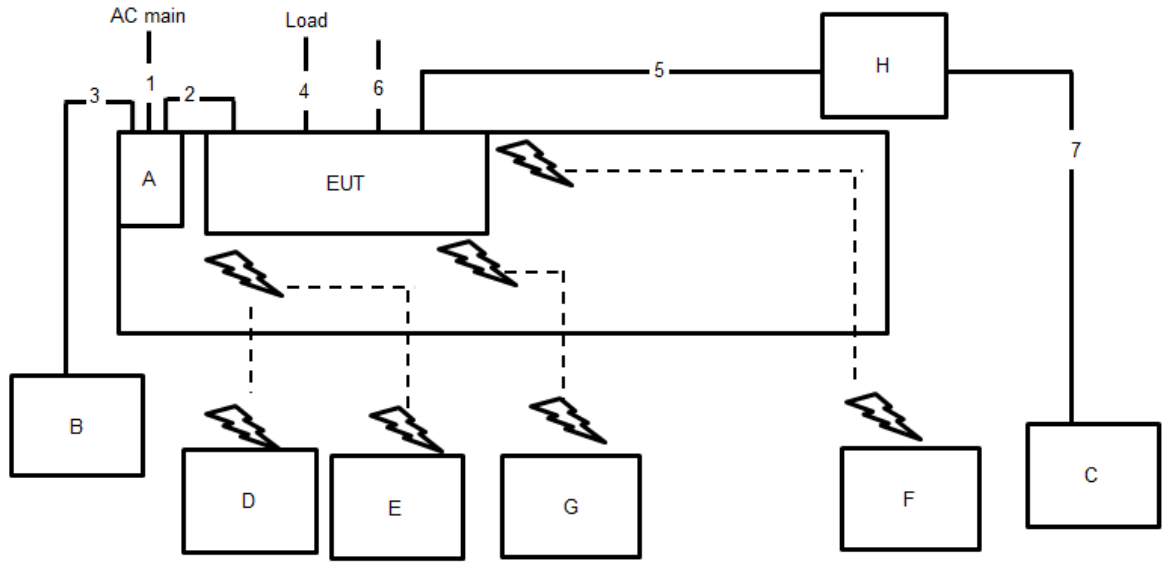
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	PoE	CISCO	MA-INJ-5	N/A
B	PoE NB	DELL	E6430	N/A
C	LAN NB	DELL	E6430	N/A
D	2.4G NB	DELL	E6430	N/A
E	5G NB	DELL	E6430	N/A
F	Smart phone	Samsung	Galaxy J2	N/A
G	GPS Simulator	WELNAVIGATE	GS-100	N/A
H	Device	Edgecore	OAP-100	N/A

For Radiated and RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	PoE	CISCO	MA-INJ-5	N/A

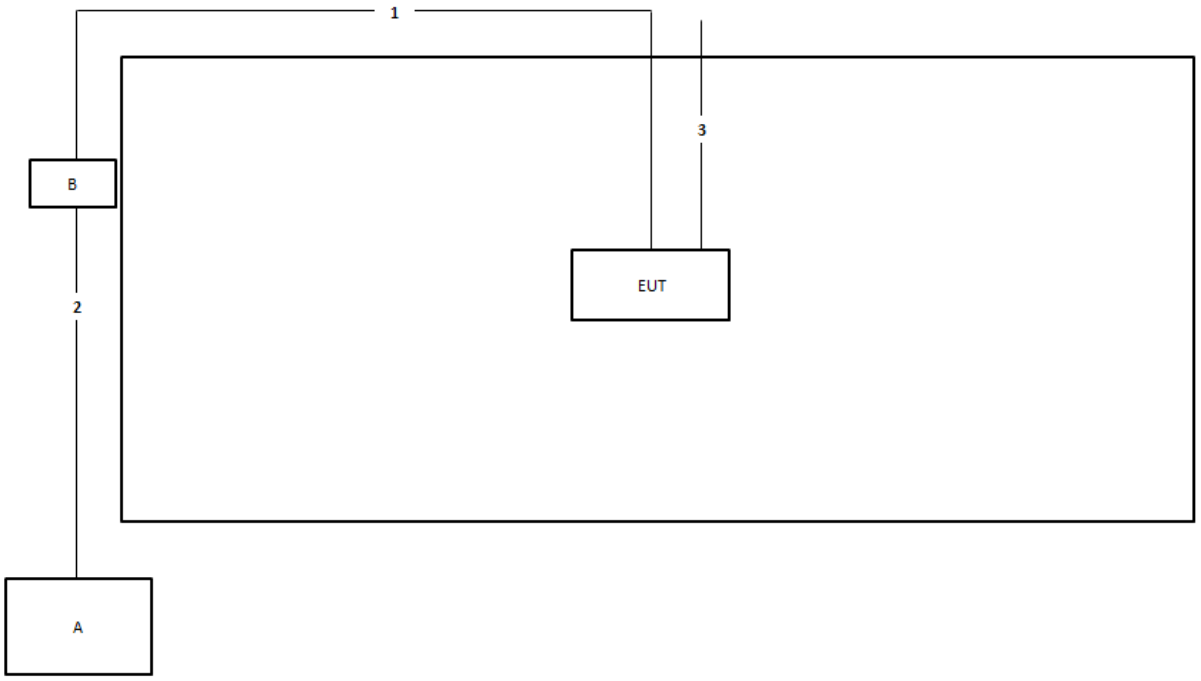
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



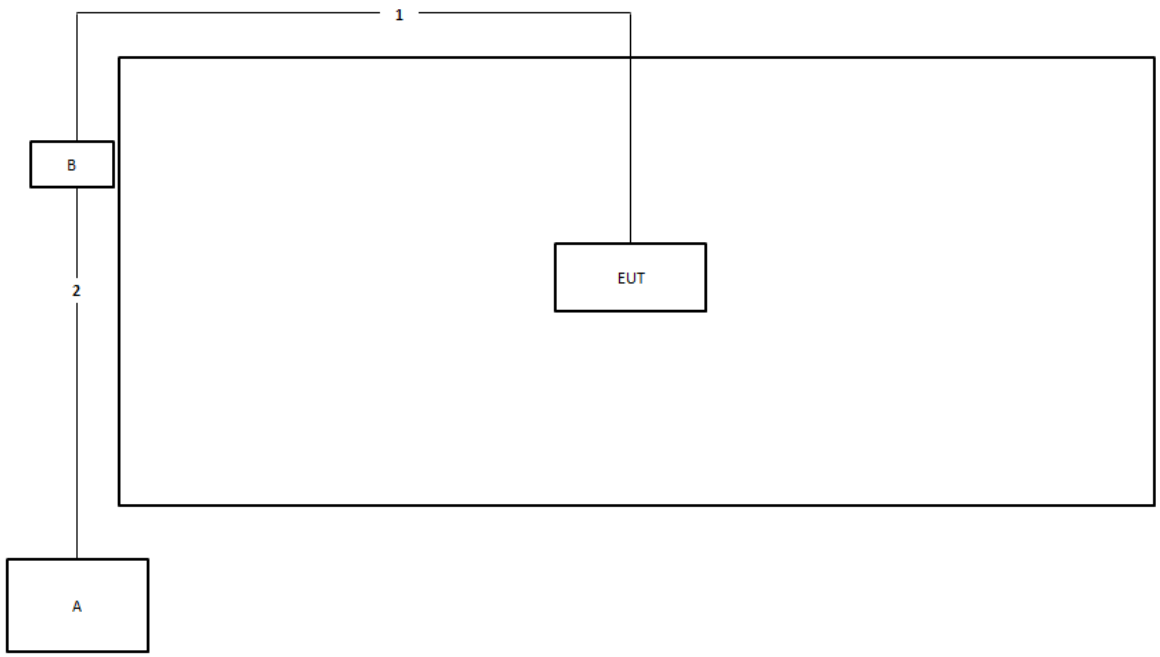
Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	3m
3	RJ-45 cable	No	10m
4	Console cable	No	1.8m
5	RJ-45 cable	No	10m
6	Ground cable	No	1.8m
7	RJ-45 cable	No	1m
1	Power cable	No	1.8m

Test Setup Diagram - Radiated Test < 1GHz



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

Test Setup Diagram - Radiated Test > 1GHz



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

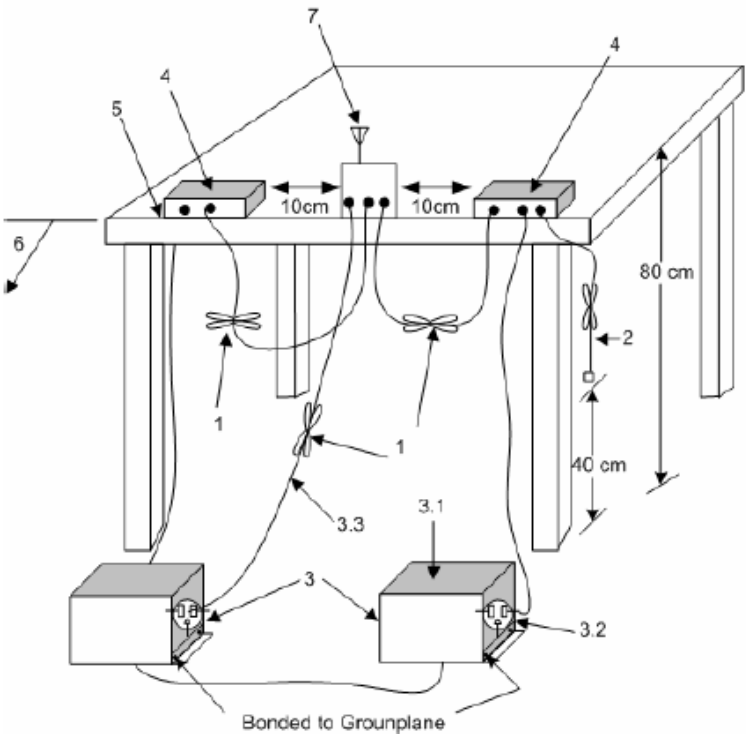
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

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 ≥ 500 kHz.

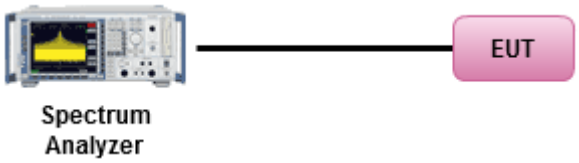
3.2.2 Measuring Instruments

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

Emission Bandwidth


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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


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

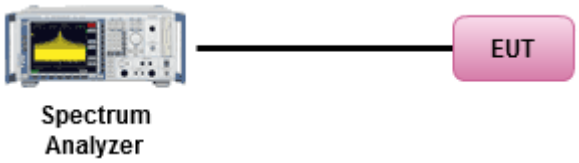
3.4.2 Measuring Instruments

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

Power Spectral Density


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.	

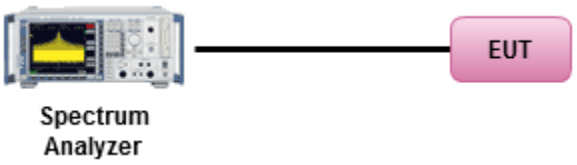
3.5.2 Measuring Instruments

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

Emissions in Non-restricted Frequency Bands


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.

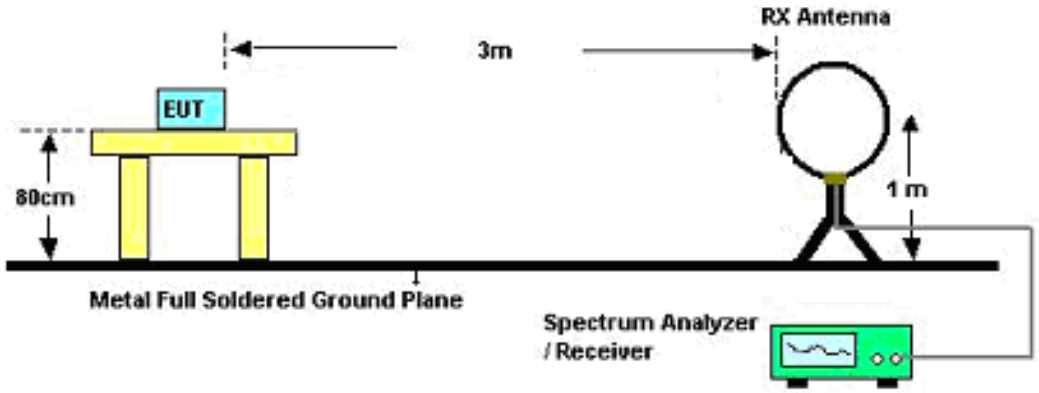
3.6.3 Test Procedures

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 ≥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≥1/T).
		☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 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.	

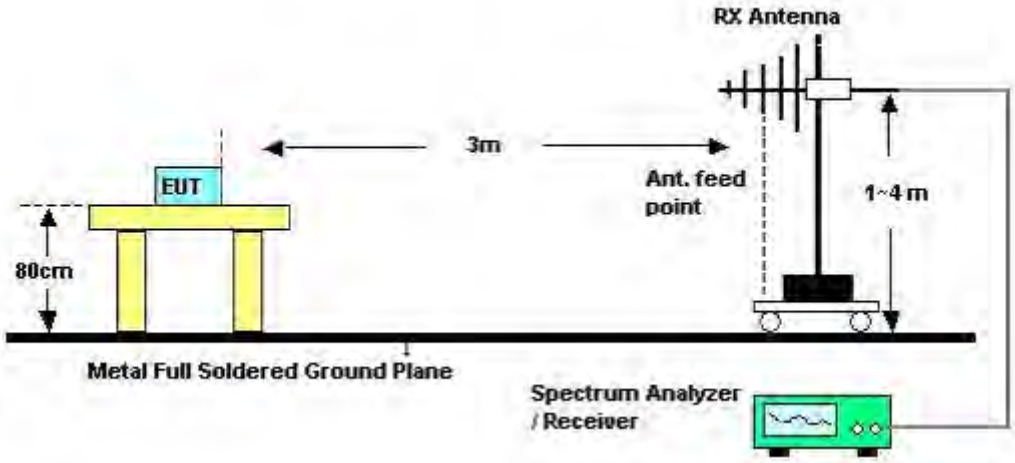
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

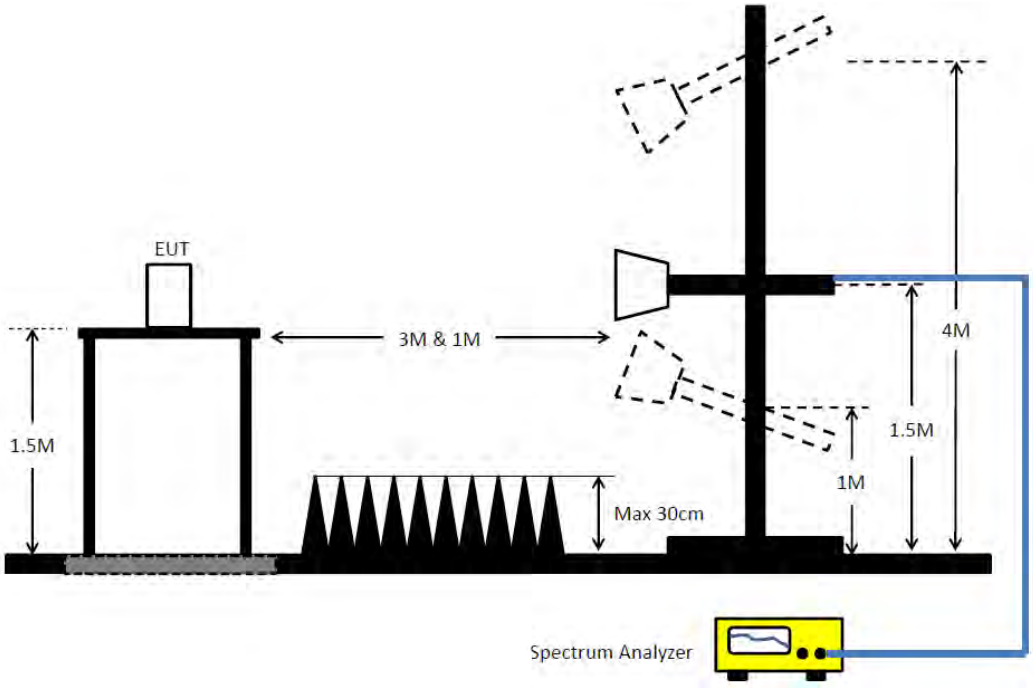
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.5 Measurement Results Calculation

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH04-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH04-CB	30 MHz ~ 1 GHz	Aug. 08, 2021	Aug. 07, 2022	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	22021&AT-N0607	30MHz ~ 1GHz	Oct. 09, 2021	Oct. 08, 2022	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	310N	187291	0.1MHz ~ 1GHz	Dec. 16, 2021	Dec. 15, 2022	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Feb. 19, 2021	Feb. 18, 2022	Radiation (03CH04-CB
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 15, 2021	Apr. 14, 2022	Radiation (03CH04-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz – 1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 27, 2021	Mar. 26, 2022	Radiation (03CH02-CB)
3m VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	May 04, 2021	May 03, 2022	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH02-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	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)
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.

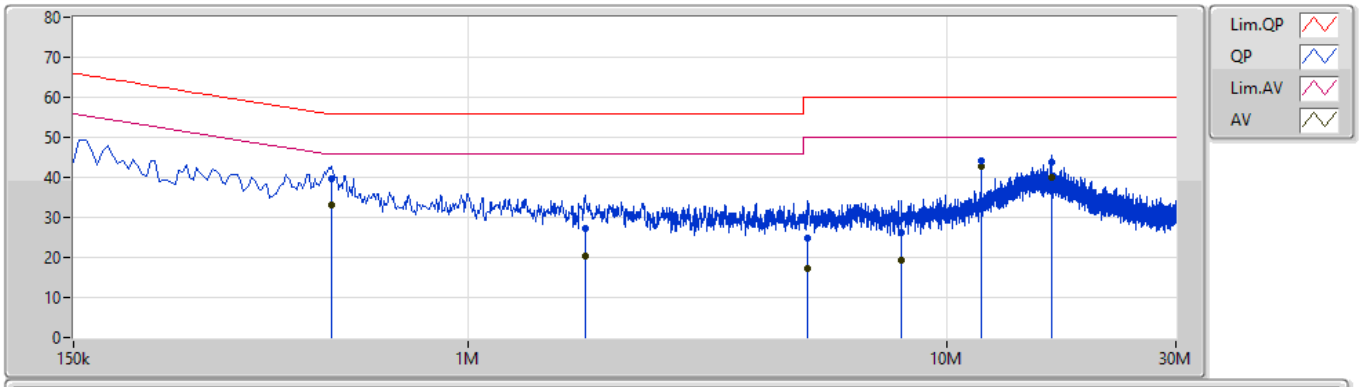
NCR means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	11.76M	42.68	50.00	-7.32	Line

Mode 1

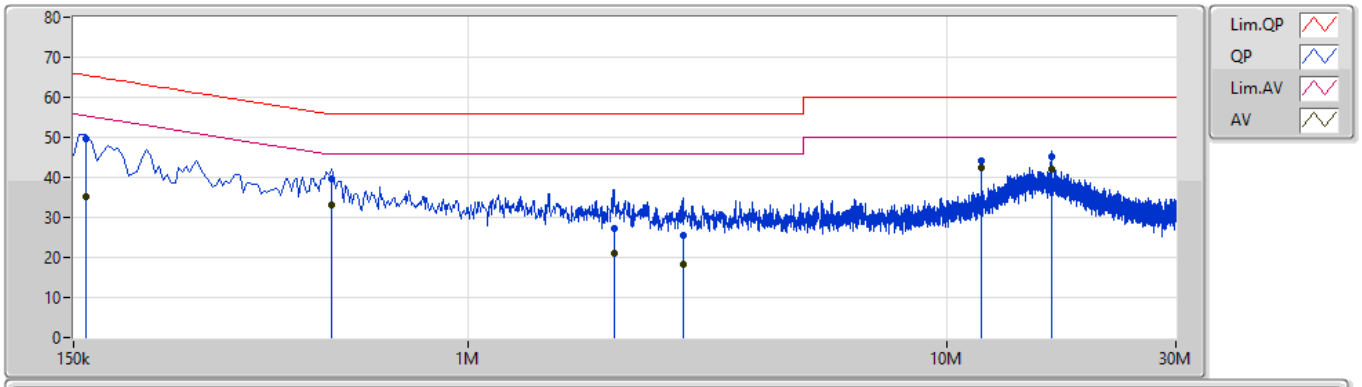
18/02/2022



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	519k	39.60	56.00	-16.40	9.98	Line	-	29.62	0.05	0.04	9.89
AV	519k	33.02	46.00	-12.98	9.98	Line	-	23.04	0.05	0.04	9.89
QP	1.757M	27.15	56.00	-28.85	10.03	Line	-	17.12	0.08	0.06	9.89
AV	1.757M	20.50	46.00	-25.50	10.03	Line	-	10.47	0.08	0.06	9.89
QP	5.105M	24.80	60.00	-35.20	10.18	Line	-	14.62	0.15	0.13	9.90
AV	5.105M	17.14	50.00	-32.86	10.18	Line	-	6.96	0.15	0.13	9.90
QP	7.998M	26.17	60.00	-33.83	10.26	Line	-	15.91	0.20	0.15	9.91
AV	7.998M	19.27	50.00	-30.73	10.26	Line	-	9.01	0.20	0.15	9.91
QP	11.76M	44.23	60.00	-15.77	10.32	Line	-	33.91	0.24	0.16	9.92
AV	11.76M	42.68	50.00	-7.32	10.32	Line	"Worst"	32.36	0.24	0.16	9.92
QP	16.467M	43.70	60.00	-16.30	10.43	Line	-	33.27	0.29	0.19	9.95
AV	16.467M	40.07	50.00	-9.93	10.43	Line	-	29.64	0.29	0.19	9.95

Mode 1

18/02/2022



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	159k	49.58	65.52	-15.94	9.96	Neutral	-	39.62	0.03	0.04	9.89
AV	159k	35.06	55.52	-20.46	9.96	Neutral	-	25.10	0.03	0.04	9.89
QP	519k	39.52	56.00	-16.48	9.97	Neutral	-	29.55	0.04	0.04	9.89
AV	519k	33.16	46.00	-12.84	9.97	Neutral	-	23.19	0.04	0.04	9.89
QP	2.013M	27.31	56.00	-28.69	10.03	Neutral	-	17.28	0.07	0.07	9.89
AV	2.013M	21.12	46.00	-24.88	10.03	Neutral	-	11.09	0.07	0.07	9.89
QP	2.805M	25.60	56.00	-30.40	10.06	Neutral	-	15.54	0.08	0.09	9.89
AV	2.805M	18.29	46.00	-27.71	10.06	Neutral	-	8.23	0.08	0.09	9.89
QP	11.76M	44.09	60.00	-15.91	10.30	Neutral	-	33.79	0.22	0.16	9.92
AV	11.76M	42.51	50.00	-7.49	10.30	Neutral	"Worst"	32.21	0.22	0.16	9.92
QP	16.463M	45.14	60.00	-14.86	10.40	Neutral	-	34.74	0.26	0.19	9.95
AV	16.463M	42.08	50.00	-7.92	10.40	Neutral	-	31.68	0.26	0.19	9.95

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.525M	12.969M	13M0G1D	7.55M	12.694M
802.11g_Nss1,(6Mbps)_2TX	16.35M	16.567M	16M6D1D	16.3M	16.467M
802.11n HT20_Nss1,(MCS0)_2TX	17.575M	17.791M	17M8D1D	17.525M	17.641M
802.11n HT40_Nss1,(MCS0)_2TX	35.25M	36.232M	36M2D1D	35M	36.082M

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

Result

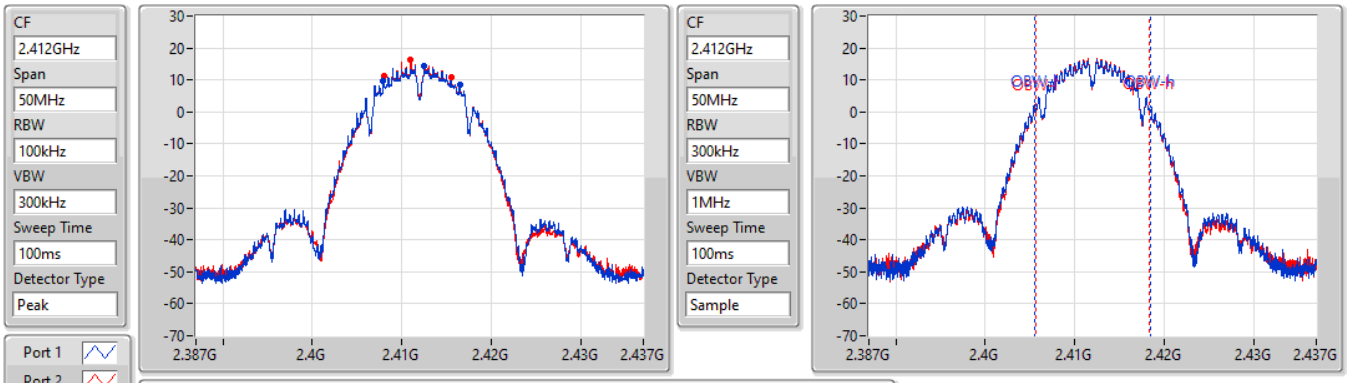
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.525M	12.969M	7.55M	12.794M
2437MHz	Pass	500k	7.6M	12.894M	7.575M	12.819M
2462MHz	Pass	500k	7.575M	12.919M	7.575M	12.694M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.35M	16.467M	16.35M	16.467M
2437MHz	Pass	500k	16.325M	16.567M	16.3M	16.542M
2462MHz	Pass	500k	16.325M	16.467M	16.35M	16.492M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.55M	17.641M	17.575M	17.691M
2437MHz	Pass	500k	17.525M	17.791M	17.575M	17.691M
2462MHz	Pass	500k	17.55M	17.641M	17.55M	17.641M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.1M	36.232M	35.1M	36.082M
2437MHz	Pass	500k	35.1M	36.132M	35M	36.082M
2452MHz	Pass	500k	35.25M	36.082M	35.05M	36.082M

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

802.11b_Nss1,(1Mbps)_2TX EBW

2412MHz

21/02/2022

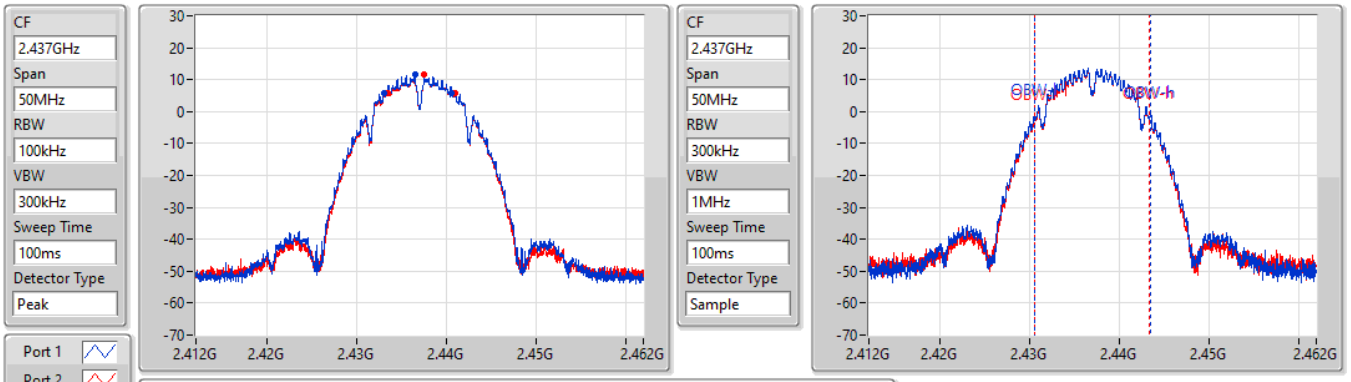


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.525M	2.40795G	2.416475G	12.969M	2.405503G	2.418472G	500k	1
7.55M	2.407975G	2.415525G	12.794M	2.405603G	2.418397G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2437MHz

21/02/2022

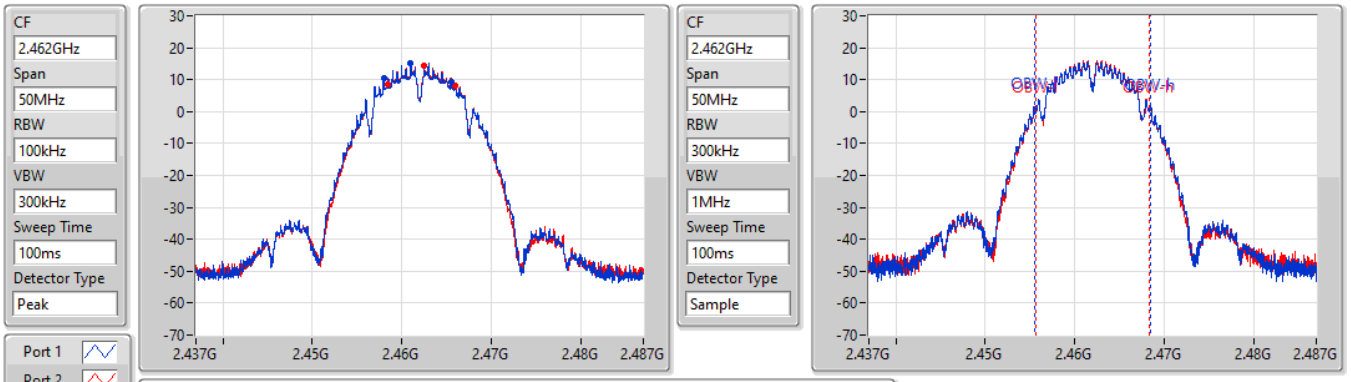


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.6M	2.432975G	2.440575G	12.894M	2.430528G	2.443422G	500k	1
7.575M	2.433425G	2.441G	12.819M	2.430578G	2.443397G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2462MHz

21/02/2022

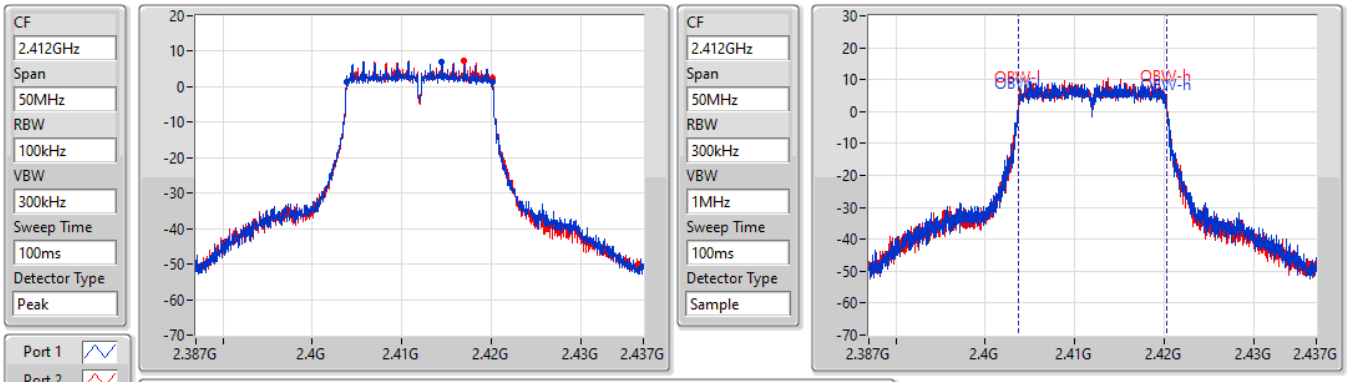


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.575M	2.457975G	2.46555G	12.919M	2.455503G	2.468422G	500k	1
7.575M	2.458425G	2.466G	12.694M	2.455628G	2.468322G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2412MHz

21/02/2022

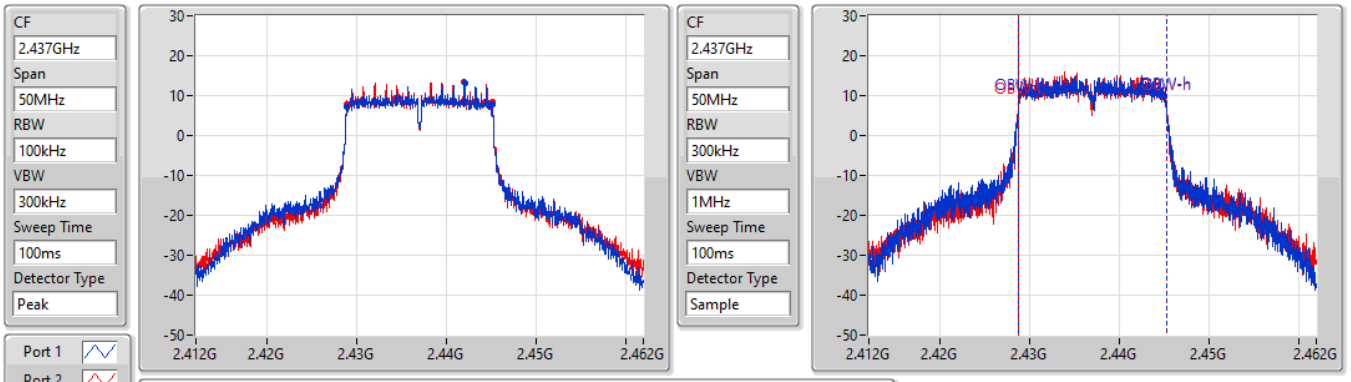


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	2.403825G	2.420175G	16.467M	2.403754G	2.420221G	500k	1
16.35M	2.403825G	2.420175G	16.467M	2.403754G	2.420221G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2437MHz

21/02/2022

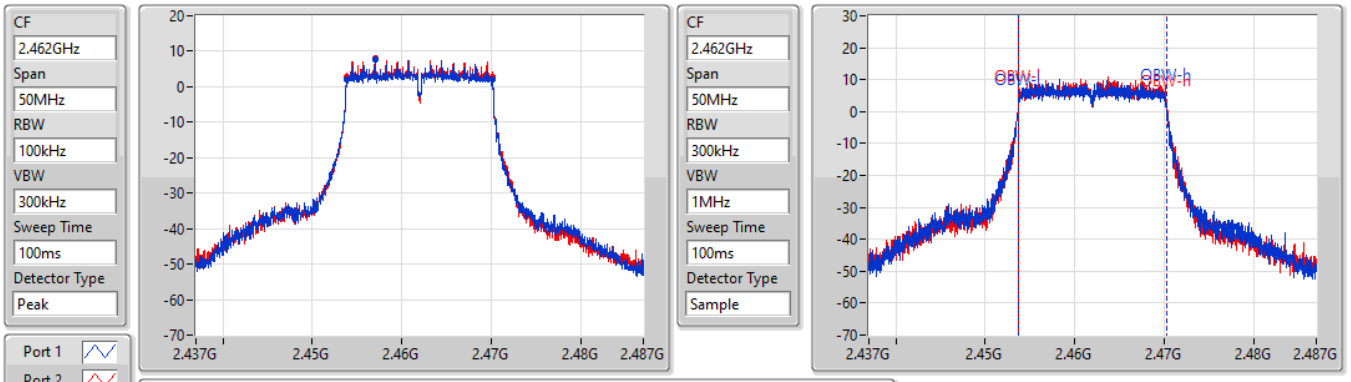


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.428825G	2.44515G	16.567M	2.428704G	2.445271G	500k	1
16.3M	2.428825G	2.445125G	16.542M	2.428704G	2.445246G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2462MHz

21/02/2022

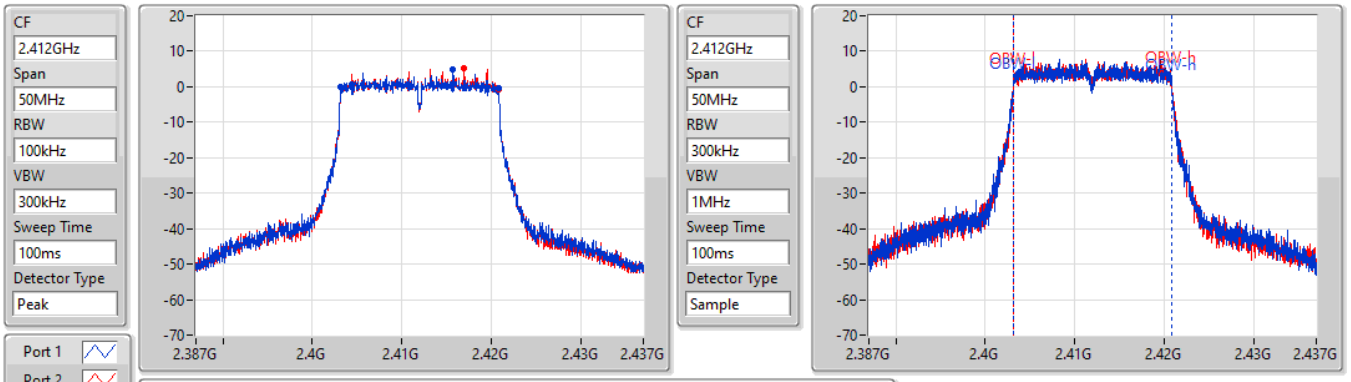


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.453825G	2.47015G	16.467M	2.453754G	2.470221G	500k	1
16.35M	2.453825G	2.470175G	16.492M	2.453754G	2.470246G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

2412MHz

21/02/2022

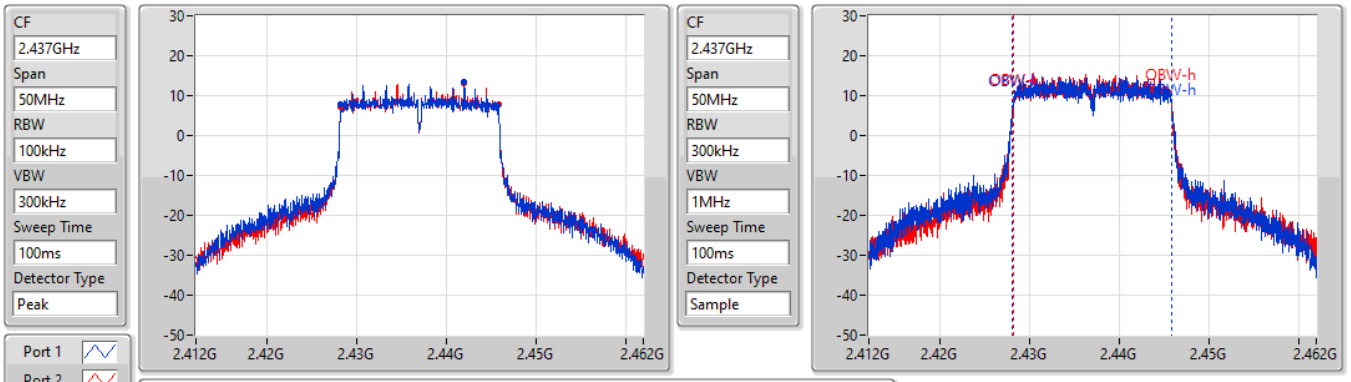


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	2.403225G	2.420775G	17.641M	2.403154G	2.420796G	500k	1
17.575M	2.403225G	2.4208G	17.691M	2.403154G	2.420846G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

2437MHz

21/02/2022

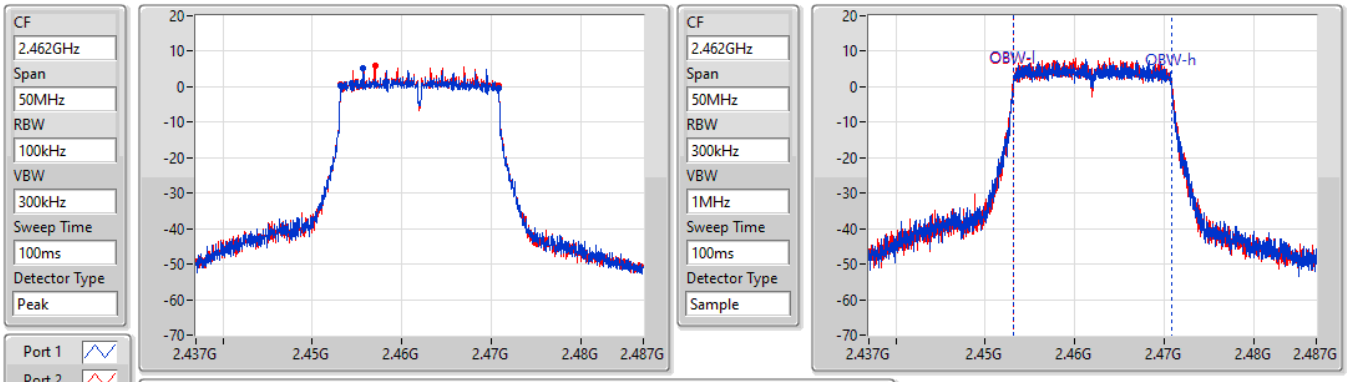


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.525M	2.428225G	2.44575G	17.791M	2.428079G	2.445871G	500k	1
17.575M	2.4282G	2.445775G	17.691M	2.428129G	2.445821G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

2462MHz

21/02/2022

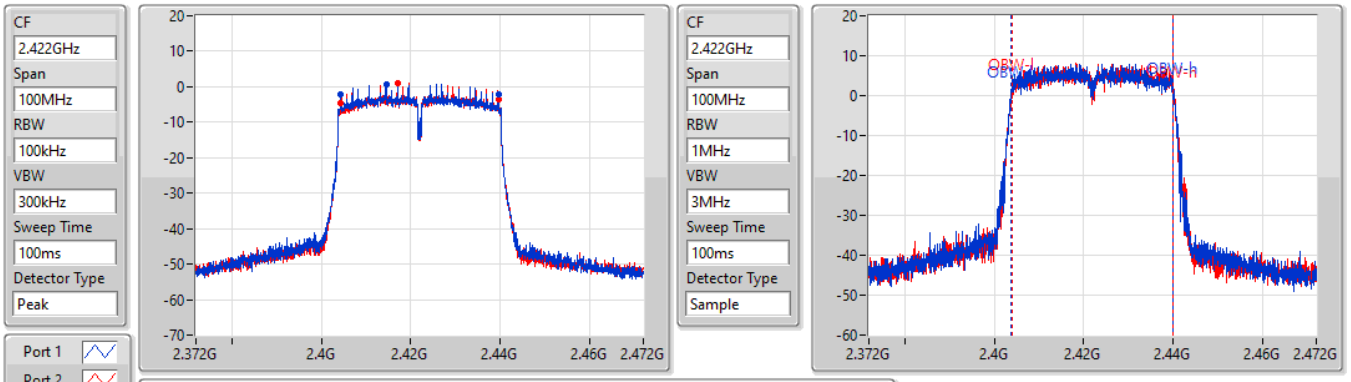


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	2.453225G	2.470775G	17.641M	2.453154G	2.470796G	500k	1
17.55M	2.453225G	2.470775G	17.641M	2.453154G	2.470796G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX EBW

2422MHz

21/02/2022

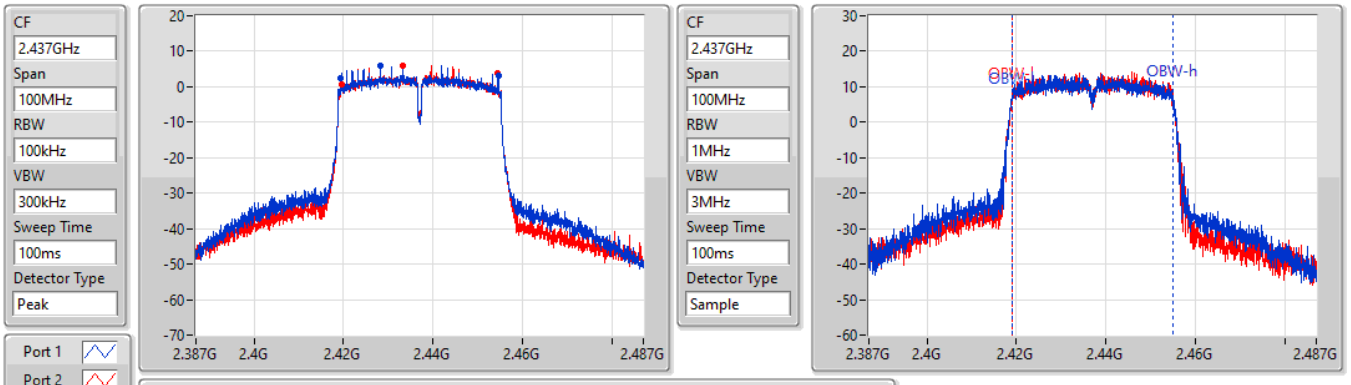


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.1M	2.40445G	2.43955G	36.232M	2.403859G	2.440091G	500k	1
35.1M	2.40445G	2.43955G	36.082M	2.403959G	2.440041G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX EBW

2437MHz

21/02/2022

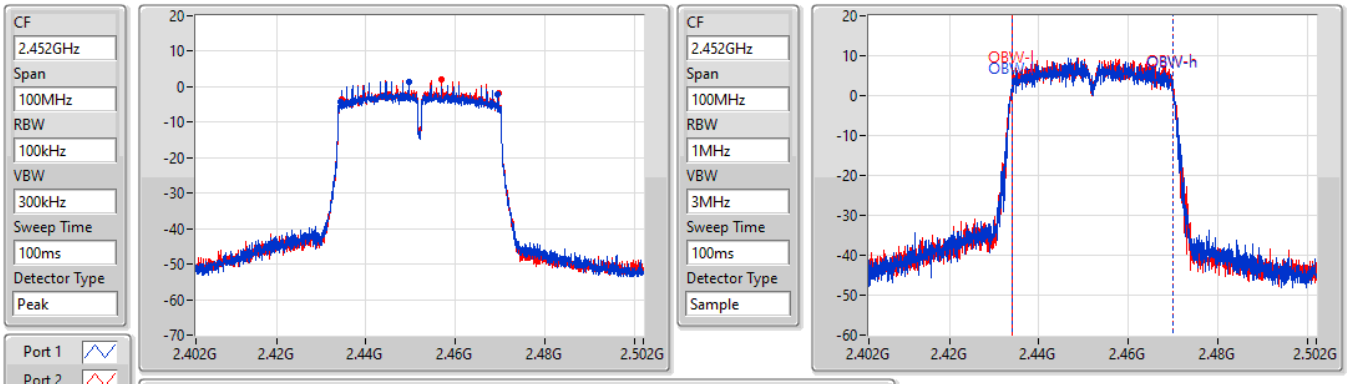


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.1M	2.41945G	2.45455G	36.132M	2.418909G	2.455041G	500k	1
35M	2.4195G	2.4545G	36.082M	2.418959G	2.455041G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX EBW

2452MHz

21/02/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.25M	2.43425G	2.4695G	36.082M	2.433909G	2.469991G	500k	1
35.05M	2.4345G	2.46955G	36.082M	2.433959G	2.470041G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	27.43	0.55335
802.11g_Nss1,(6Mbps)_2TX	27.61	0.57677
802.11n HT20_Nss1,(MCS0)_2TX	27.71	0.59020
802.11n HT40_Nss1,(MCS0)_2TX	23.69	0.23388

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.66	24.23	24.60	27.43	30.00
2437MHz	Pass	5.66	21.47	21.26	24.38	30.00
2462MHz	Pass	5.66	23.51	24.07	26.81	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.66	18.78	19.20	22.01	30.00
2417MHz	Pass	5.66	20.90	21.02	23.97	30.00
2437MHz	Pass	5.66	24.50	24.69	27.61	30.00
2457MHz	Pass	5.66	20.74	20.98	23.87	30.00
2462MHz	Pass	5.66	19.18	19.65	22.43	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.66	16.98	17.16	20.08	30.00
2417MHz	Pass	5.66	21.41	21.60	24.52	30.00
2437MHz	Pass	5.66	24.56	24.83	27.71	30.00
2457MHz	Pass	5.66	20.75	20.99	23.88	30.00
2462MHz	Pass	5.66	17.20	17.67	20.45	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.66	15.14	15.16	18.16	30.00
2427MHz	Pass	5.66	15.60	15.78	18.70	30.00
2437MHz	Pass	5.66	20.65	20.70	23.69	30.00
2452MHz	Pass	5.66	15.84	16.39	19.13	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	0.26
802.11g_Nss1,(6Mbps)_2TX	-1.41
802.11n HT20_Nss1,(MCS0)_2TX	-0.83
802.11n HT40_Nss1,(MCS0)_2TX	-6.96

RBW = 3kHz;

Result

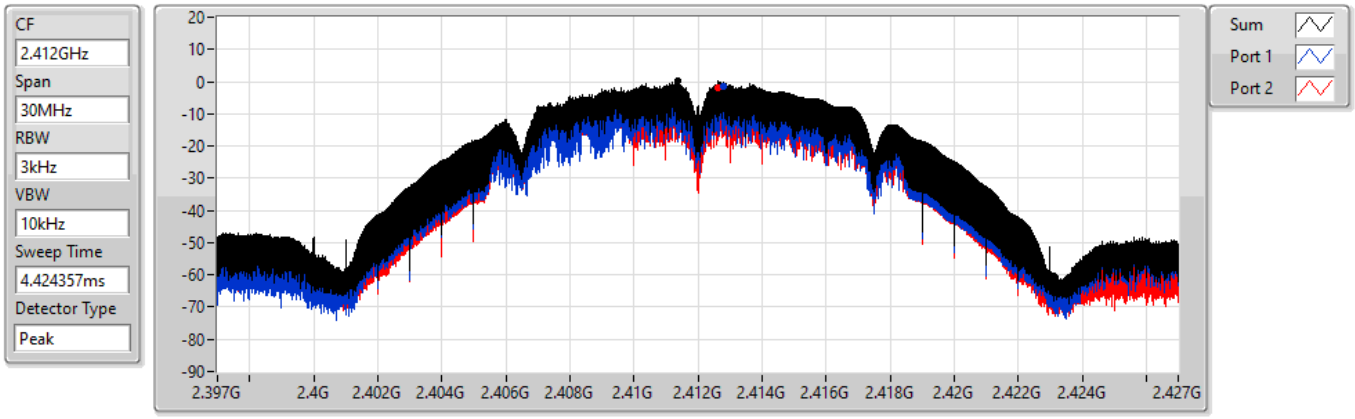
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.54	-1.34	-2.05	0.26	5.46
2437MHz	Pass	8.54	-6.74	-6.84	-3.80	5.46
2462MHz	Pass	8.54	-0.44	-4.21	-0.14	5.46
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.54	-9.34	-8.80	-7.05	5.46
2437MHz	Pass	8.54	-3.12	-3.88	-1.41	5.46
2462MHz	Pass	8.54	-8.62	-8.76	-6.70	5.46
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.54	-10.64	-10.14	-8.39	5.46
2437MHz	Pass	8.54	-1.60	-3.74	-0.83	5.46
2462MHz	Pass	8.54	-10.34	-11.20	-8.61	5.46
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	8.54	-13.51	-15.46	-12.73	5.46
2437MHz	Pass	8.54	-9.95	-8.63	-6.96	5.46
2452MHz	Pass	8.54	-13.96	-13.37	-11.43	5.46

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

802.11b_Nss1,(1Mbps)_2TX PSD

2412MHz

21/02/2022

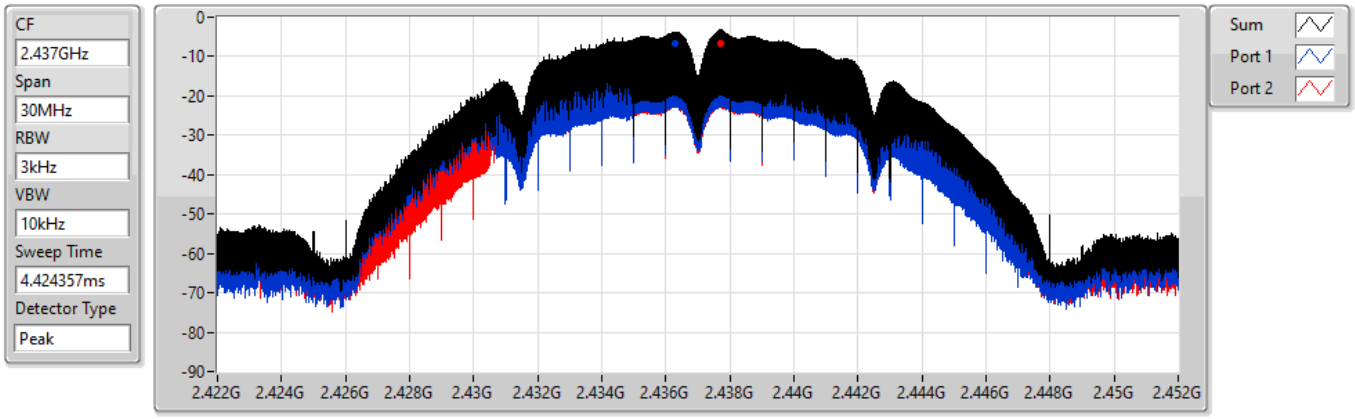


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.26	0.26	-1.34	-2.05

802.11b_Nss1,(1Mbps)_2TX PSD

2437MHz

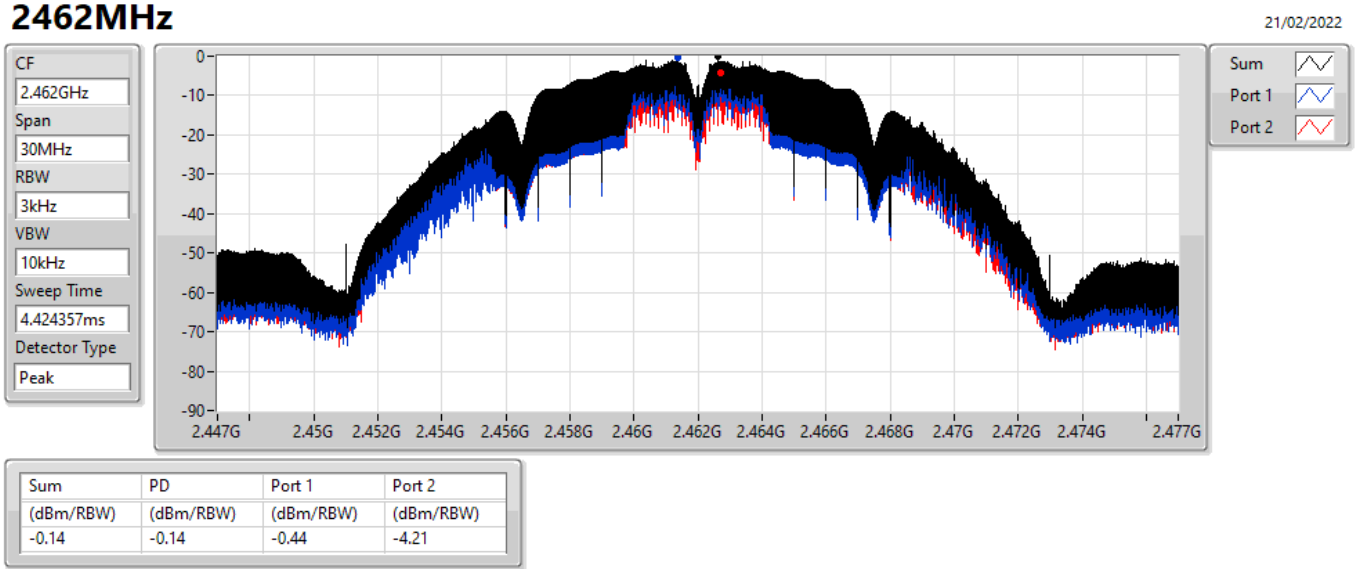
21/02/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.80	-3.80	-6.74	-6.84

802.11b_Nss1,(1Mbps)_2TX PSD

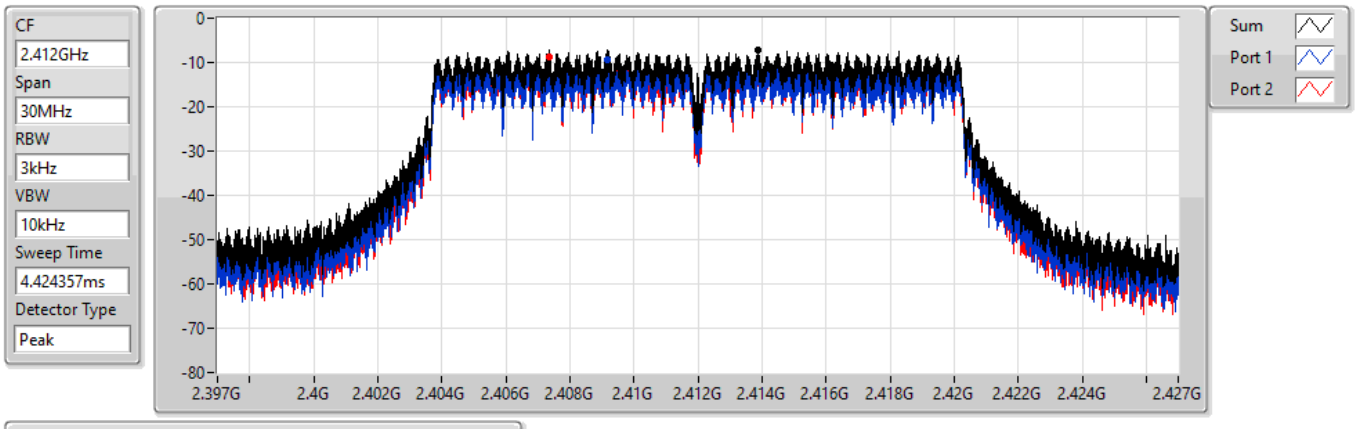
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.14	-0.14	-0.44	-4.21

802.11g_Nss1,(6Mbps)_2TX PSD

2412MHz

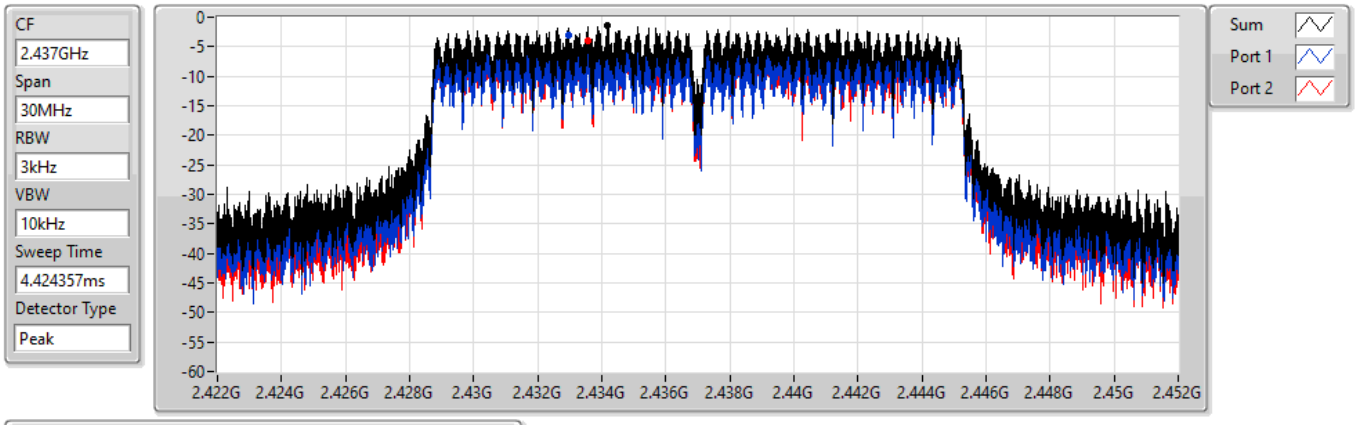


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.05	-7.05	-9.34	-8.80

802.11g_Nss1,(6Mbps)_2TX PSD

2437MHz

21/02/2022

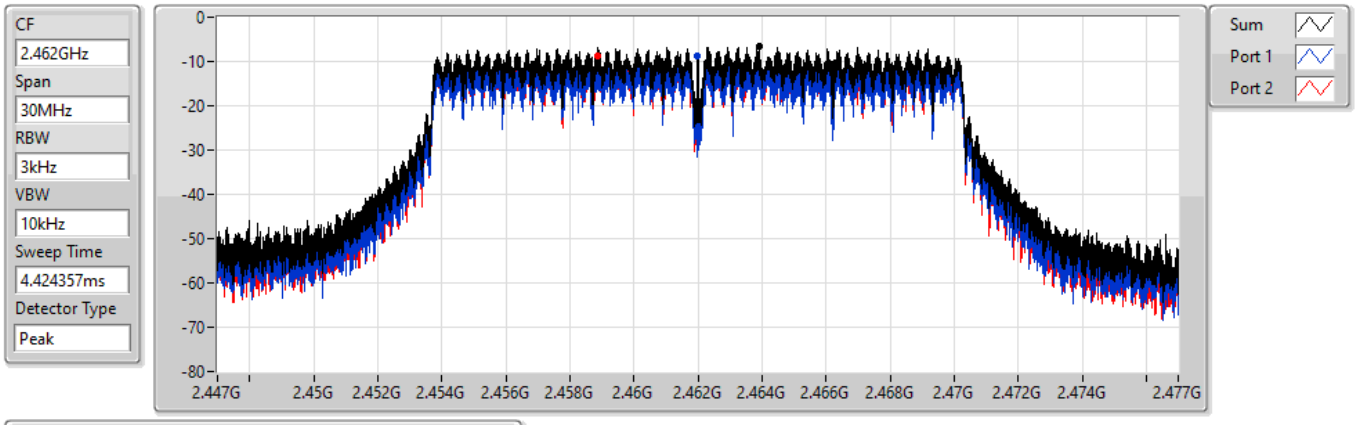


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.41	-1.41	-3.12	-3.88

802.11g_Nss1,(6Mbps)_2TX PSD

2462MHz

21/02/2022

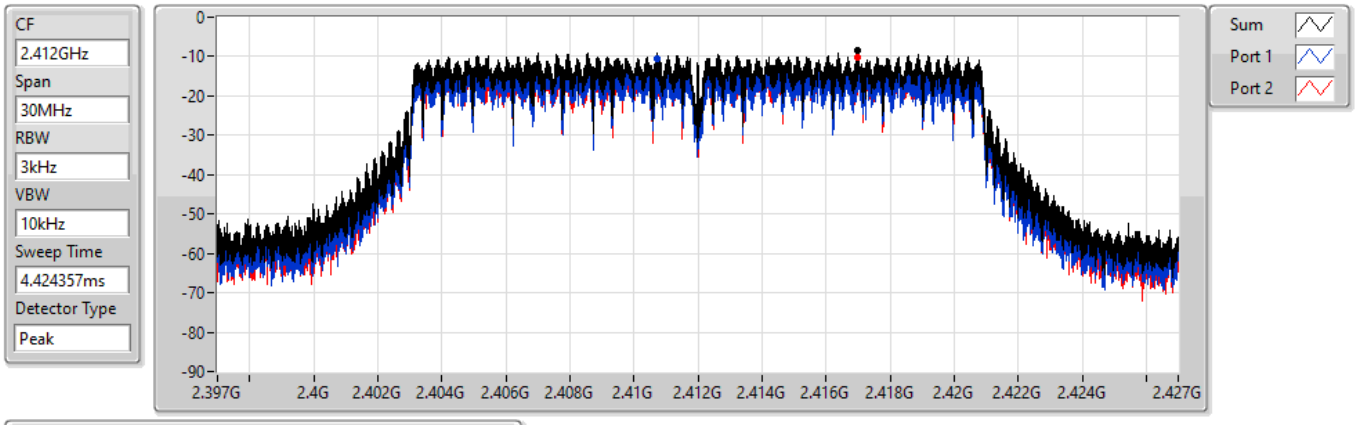


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.70	-6.70	-8.62	-8.76

802.11n HT20_Nss1,(MCS0)_2TX PSD

2412MHz

21/02/2022

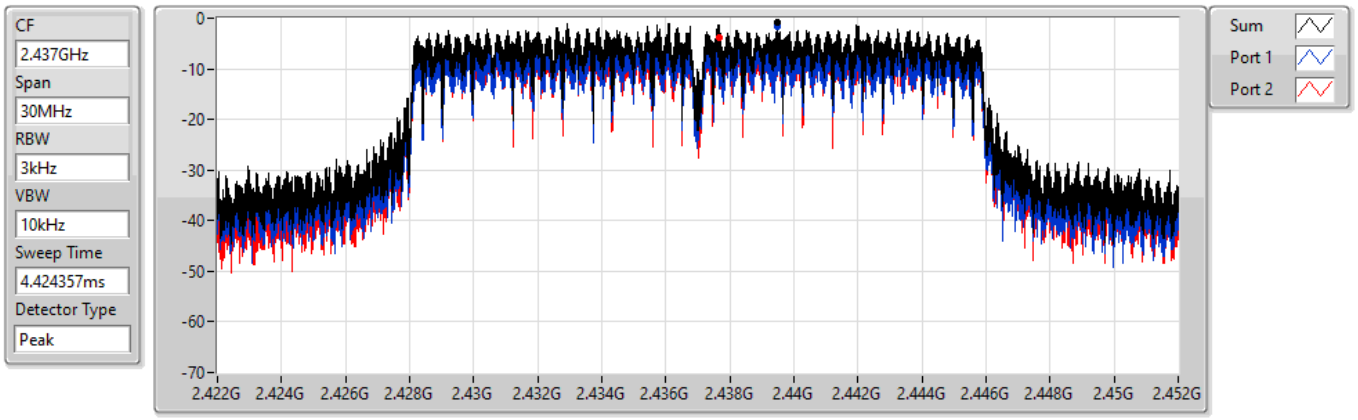


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.39	-8.39	-10.64	-10.14

802.11n HT20_Nss1,(MCS0)_2TX PSD

2437MHz

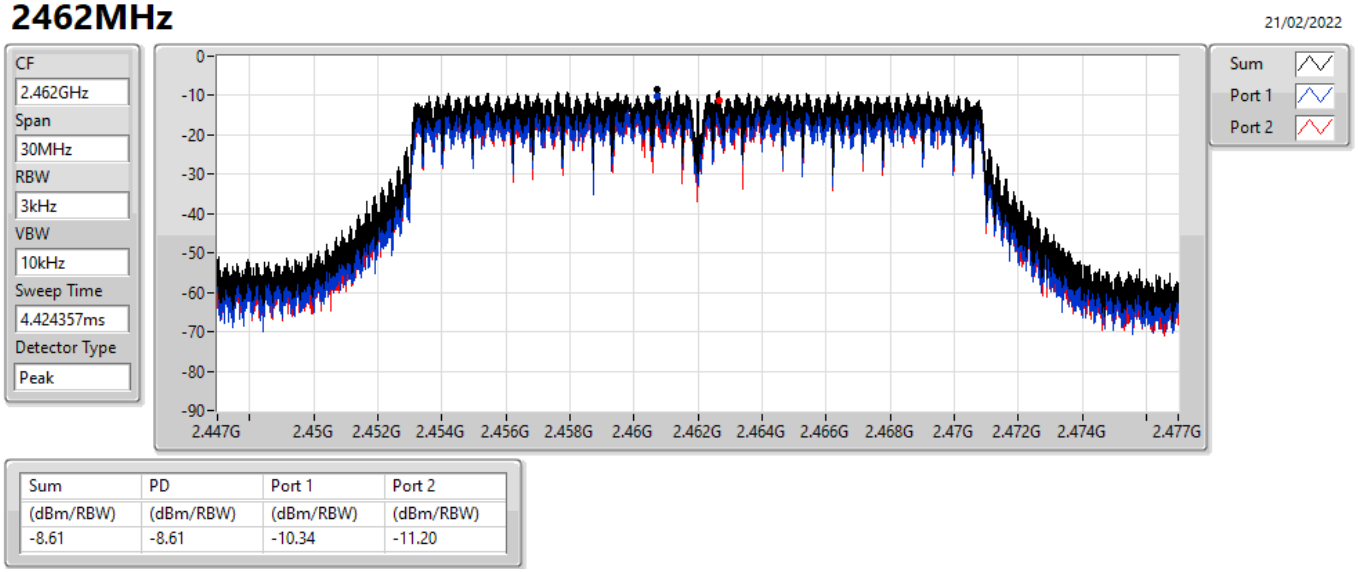
21/02/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.83	-0.83	-1.60	-3.74

802.11n HT20_Nss1,(MCS0)_2TX PSD

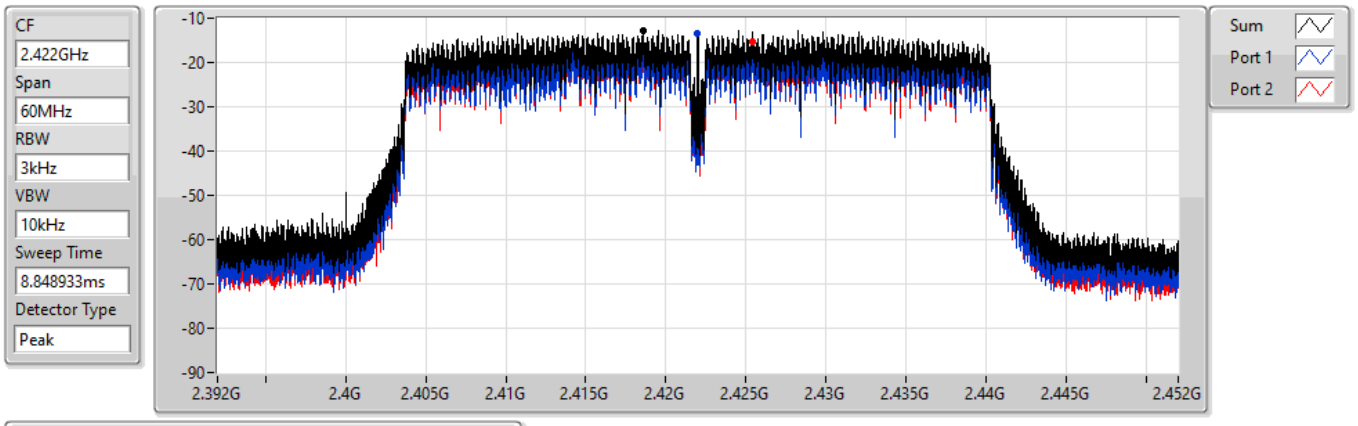
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.61	-8.61	-10.34	-11.20

802.11n HT40_Nss1,(MCS0)_2TX PSD

2422MHz



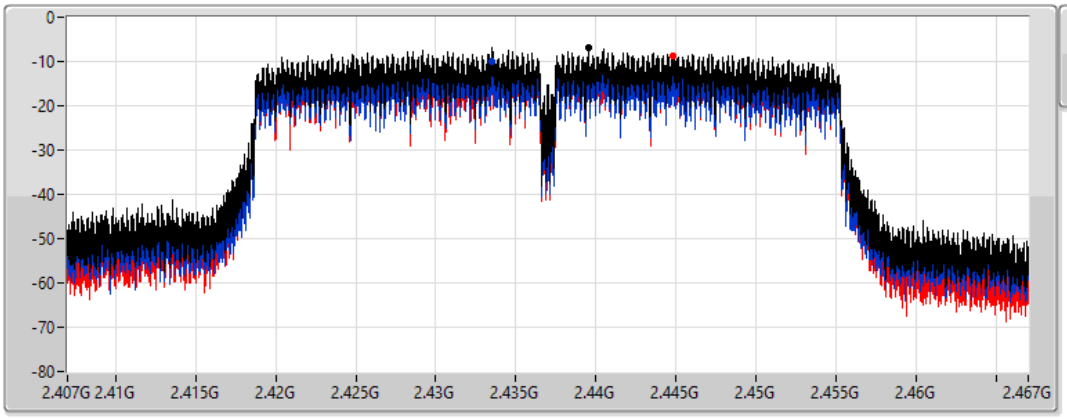
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.73	-12.73	-13.51	-15.46

802.11n HT40_Nss1,(MCS0)_2TX PSD

2437MHz

21/02/2022

CF	2.437GHz
Span	60MHz
RBW	3kHz
VBW	10kHz
Sweep Time	8.848933ms
Detector Type	Peak



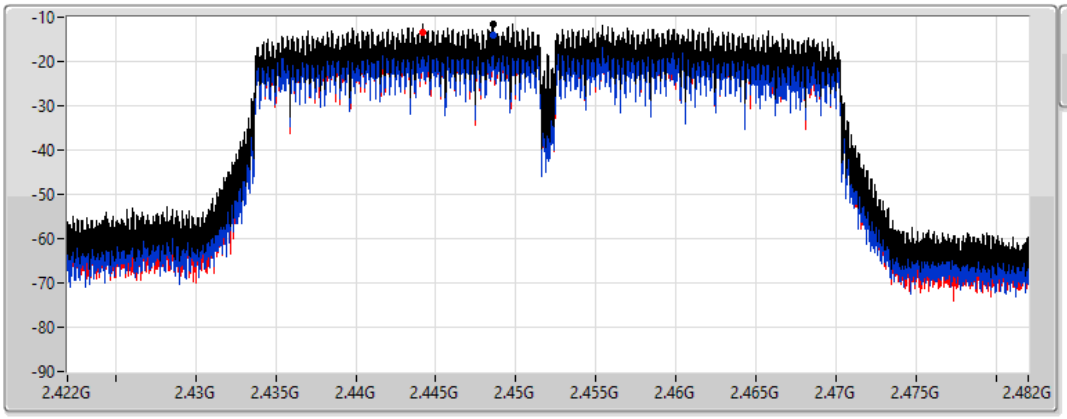
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.96	-6.96	-9.95	-8.63

802.11n HT40_Nss1,(MCS0)_2TX PSD

2452MHz

21/02/2022

CF	2.452GHz
Span	60MHz
RBW	3kHz
VBW	10kHz
Sweep Time	8.848933ms
Detector Type	Peak



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.43	-11.43	-13.96	-13.37

Summary

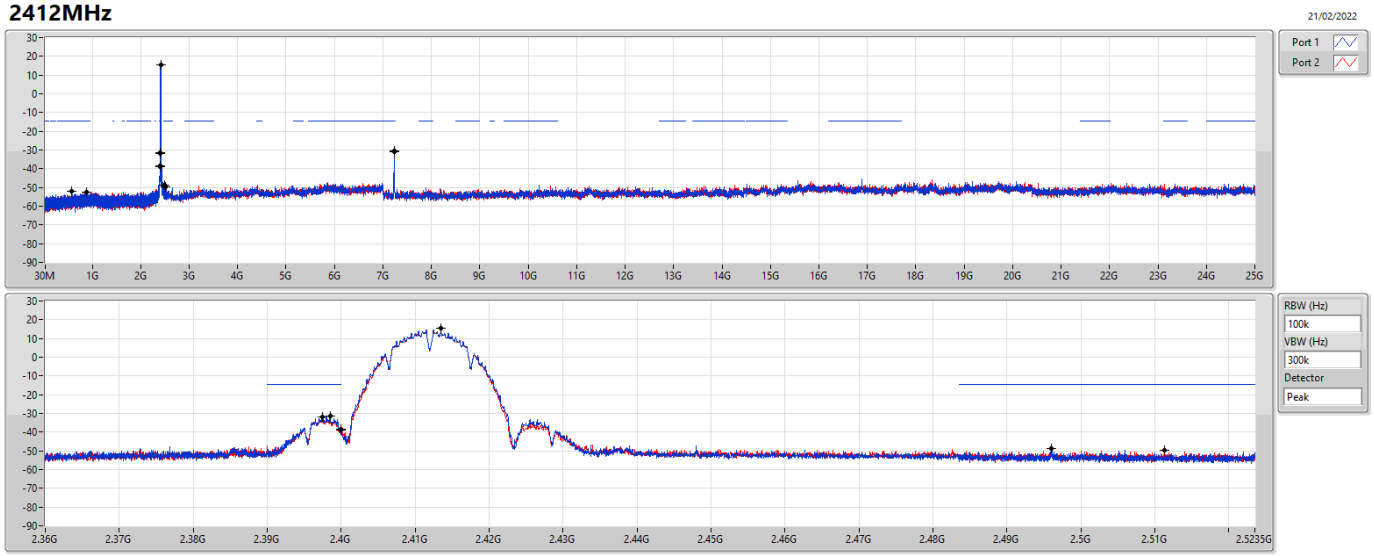
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.41349G	15.29	-14.71	883.95M	-52.36	2.39852G	-31.48	2.4G	-38.65	2.496G	-48.88	7.23514G	-31.11	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43198G	13.44	-16.56	2.30408G	-51.60	2.39826G	-32.05	2.4G	-33.88	2.49602G	-48.41	7.23514G	-39.72	1
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.4357G	13.11	-16.89	2.30408G	-50.80	2.39886G	-36.16	2.4G	-39.04	2.49596G	-47.85	7.23514G	-41.66	1
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.43198G	6.85	-23.15	2.30426G	-51.32	2.39952G	-32.50	2.4G	-36.86	2.48414G	-46.42	16.41523G	-47.64	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)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41349G	15.29	-14.71	883.95M	-52.36	2.39852G	-31.48	2.4G	-38.65	2.496G	-48.88	7.23514G	-31.11	1
2412MHz	Pass	2.41349G	15.29	-14.71	573.76M	-52.07	2.39752G	-31.76	2.4G	-38.85	2.51124G	-49.67	7.23514G	-30.40	2
2437MHz	Pass	2.41349G	15.29	-14.71	851.62M	-51.82	2.39998G	-46.49	2.4G	-46.28	2.49596G	-48.16	17.67828G	-47.17	1
2437MHz	Pass	2.41349G	15.29	-14.71	2.30437G	-51.82	2.39998G	-47.11	2.4G	-47.86	2.5021G	-48.72	17.65299G	-47.71	2
2462MHz	Pass	2.41349G	15.29	-14.71	2.30408G	-49.77	2.4G	-43.97	2.4G	-45.61	2.49598G	-45.66	5.91183G	-47.28	1
2462MHz	Pass	2.41349G	15.29	-14.71	914.24M	-50.82	2.4G	-47.09	2.4G	-49.36	2.48614G	-47.30	5.90902G	-47.79	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43198G	13.44	-16.56	2.30408G	-51.60	2.39826G	-32.05	2.4G	-33.88	2.49602G	-48.41	7.23514G	-39.72	1
2412MHz	Pass	2.43198G	13.44	-16.56	823.37M	-51.65	2.39736G	-33.24	2.4G	-34.95	2.4944G	-50.12	7.23795G	-40.36	2
2437MHz	Pass	2.43198G	13.44	-16.56	2.30408G	-52.71	2.3995G	-40.31	2.4G	-41.78	2.496G	-46.89	6.97104G	-47.21	1
2437MHz	Pass	2.43198G	13.44	-16.56	2.30408G	-50.44	2.39952G	-38.50	2.4G	-41.11	2.48478G	-44.69	6.9907G	-46.93	2
2462MHz	Pass	2.43198G	13.44	-16.56	2.30408G	-50.12	2.39998G	-45.87	2.4G	-45.05	2.4835G	-46.60	23.55588G	-46.58	1
2462MHz	Pass	2.43198G	13.44	-16.56	2.30262G	-51.73	2.4G	-49.13	2.4835G	-44.23	2.48352G	-43.97	6.42317G	-46.25	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4357G	13.11	-16.89	2.30408G	-50.80	2.39886G	-36.16	2.4G	-39.04	2.49596G	-47.85	7.23514G	-41.66	1
2412MHz	Pass	2.4357G	13.11	-16.89	1.71663G	-51.68	2.39984G	-36.65	2.4G	-38.33	2.49132G	-48.83	7.23795G	-43.15	2
2437MHz	Pass	2.4357G	13.11	-16.89	2.18991G	-52.05	2.39988G	-40.11	2.4G	-40.93	2.48696G	-47.58	5.82474G	-45.96	1
2437MHz	Pass	2.4357G	13.11	-16.89	2.19078G	-52.53	2.3995G	-36.30	2.4G	-38.30	2.48422G	-45.30	16.48141G	-47.15	2
2462MHz	Pass	2.4357G	13.11	-16.89	2.30408G	-52.05	2.4G	-44.31	2.4G	-44.73	2.49598G	-46.37	5.92869G	-46.47	1
2462MHz	Pass	2.4357G	13.11	-16.89	2.30408G	-51.16	2.4G	-48.98	2.4835G	-49.45	2.49602G	-46.26	17.63614G	-45.74	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	6.85	-23.15	2.30426G	-52.64	2.3986G	-41.46	2.4G	-43.90	2.49598G	-48.12	6.97788G	-46.57	1
2422MHz	Pass	2.43198G	6.85	-23.15	2.17029G	-52.03	2.39884G	-42.63	2.4G	-46.07	2.50406G	-49.54	6.68901G	-47.78	2
2437MHz	Pass	2.43198G	6.85	-23.15	2.30426G	-51.32	2.39952G	-32.50	2.4G	-36.86	2.48414G	-46.42	16.41523G	-47.64	1
2437MHz	Pass	2.43198G	6.85	-23.15	2.30426G	-50.51	2.39952G	-37.09	2.4G	-38.53	2.4863G	-44.70	17.66607G	-47.22	2
2452MHz	Pass	2.43198G	6.85	-23.15	368.06M	-52.02	2.39996G	-46.58	2.4G	-46.06	2.4895G	-46.27	6.63853G	-47.39	1
2452MHz	Pass	2.43198G	6.85	-23.15	2.30426G	-49.73	2.4G	-47.97	2.4835G	-48.85	2.48362G	-47.77	17.6857G	-46.79	2

802.11b_Nss1,(1Mbps)_2TX **CSENdB**

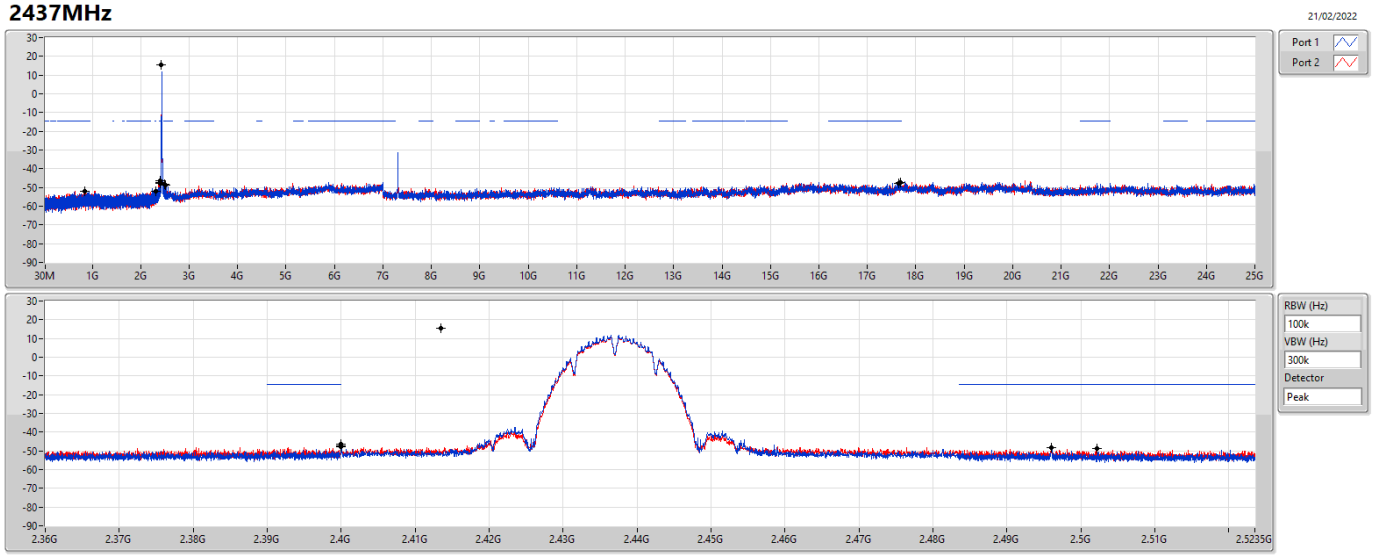
2412MHz



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
2.41349G	15.29	-14.71	883.95M	-52.36	2.39852G	-31.48	2.4G	-38.65	2.496G	-48.88	7.23514G	-31.11	1
2.41349G	15.29	-14.71	573.76M	-52.07	2.39752G	-31.76	2.4G	-38.85	2.51124G	-49.67	7.23514G	-30.40	2

802.11b_Nss1,(1Mbps)_2TX **CSENdB**

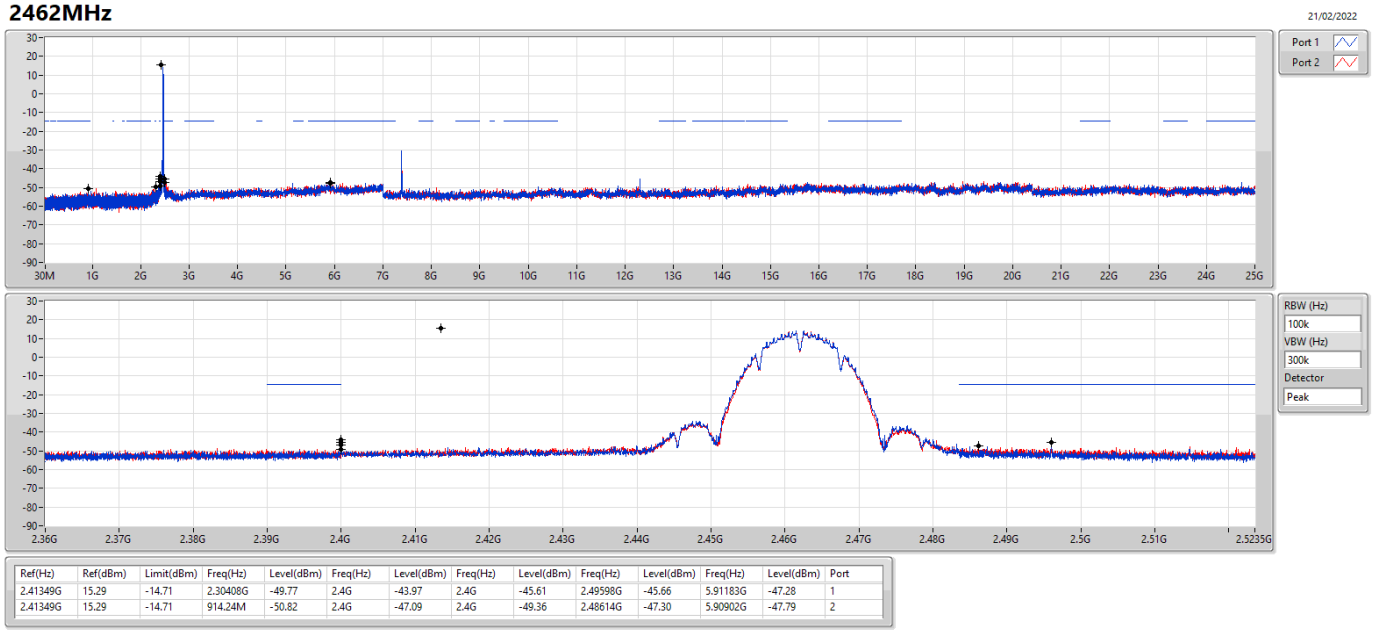
2437MHz



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
2.41349G	15.29	-14.71	851.62M	-51.82	2.39998G	-46.49	2.4G	-46.28	2.49596G	-48.16	17.67828G	-47.17	1
2.41349G	15.29	-14.71	2.30437G	-51.82	2.39998G	-47.11	2.4G	-47.86	2.5021G	-48.72	17.65299G	-47.71	2

802.11b_Nss1,(1Mbps)_2TX **CSENdB**

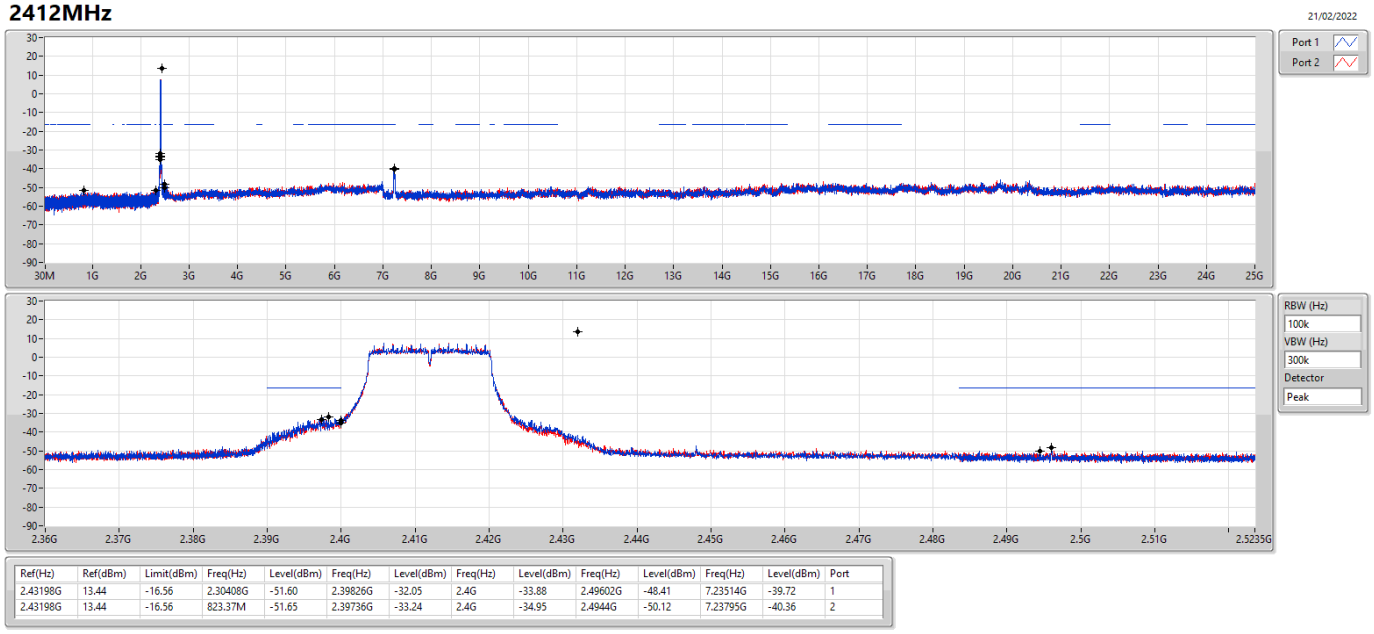
2462MHz



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
2.41349G	15.29	-14.71	2.30408G	-49.77	2.4G	-43.97	2.4G	-45.61	2.49598G	-45.66	5.91183G	-47.28	1
2.41349G	15.29	-14.71	914.24M	-50.82	2.4G	-47.09	2.4G	-49.36	2.48614G	-47.30	5.90902G	-47.79	2

802.11g_Nss1,(6Mbps)_2TX **CSENdB**

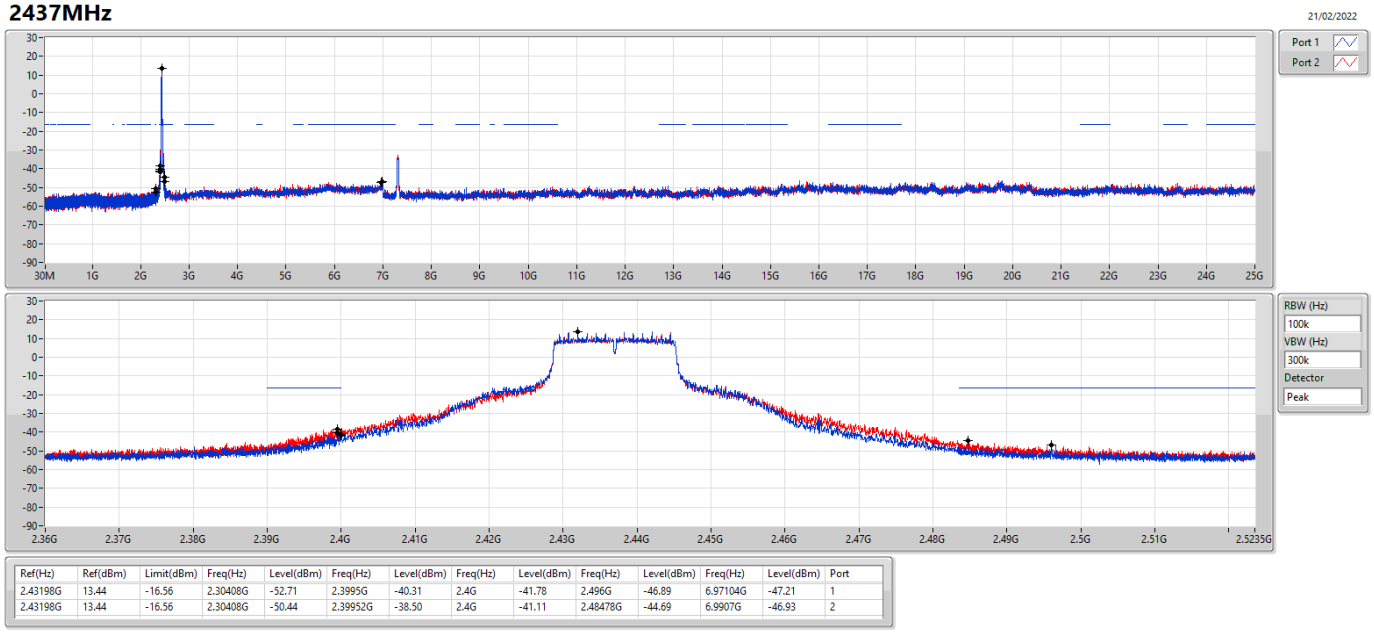
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	13.44	-16.56	2.30408G	-51.60	2.39826G	-32.05	2.4G	-33.88	2.49602G	-48.41	7.23514G	-39.72	1
2.43198G	13.44	-16.56	823.37M	-51.65	2.39736G	-33.24	2.4G	-34.95	2.4944G	-50.12	7.23795G	-40.36	2

802.11g_Nss1,(6Mbps)_2TX **CSENdB**

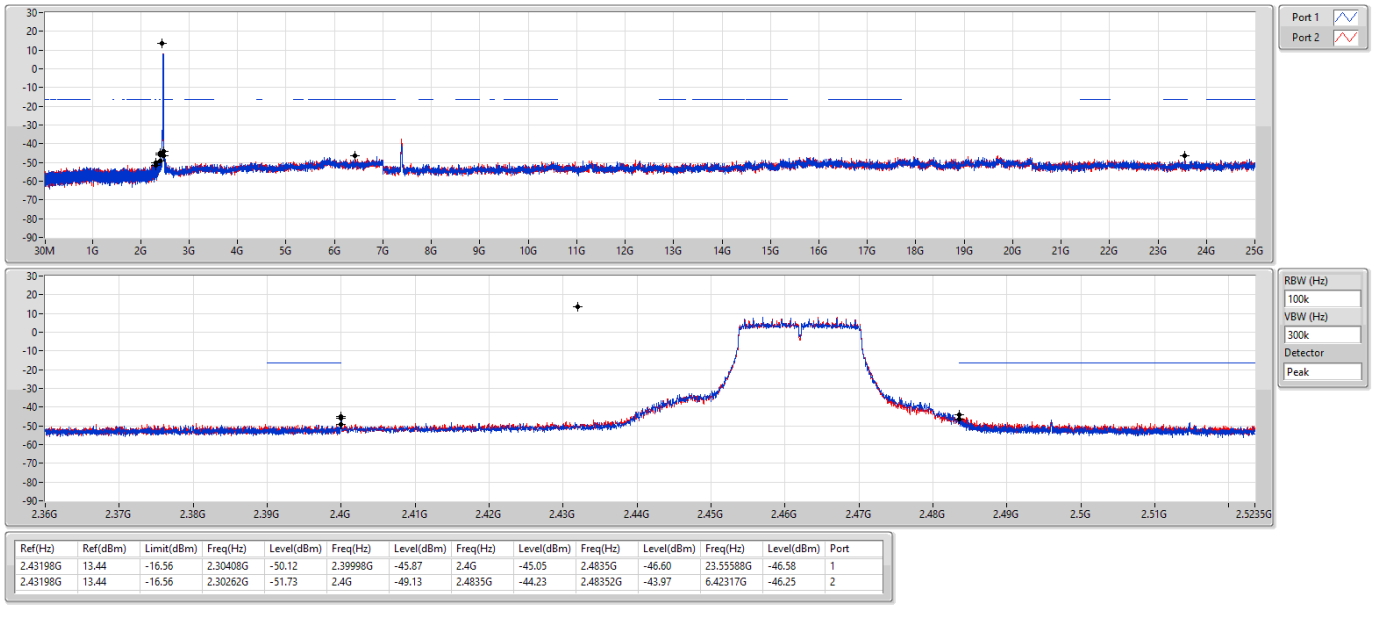
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	13.44	-16.56	2.30408G	-52.71	2.3995G	-40.31	2.4G	-41.78	2.496G	-46.89	6.97104G	-47.21	1
2.43198G	13.44	-16.56	2.30408G	-50.44	2.39952G	-38.50	2.4G	-41.11	2.48478G	-44.69	6.9907G	-46.93	2

802.11g_Nss1,(6Mbps)_2TX **CSENdB**

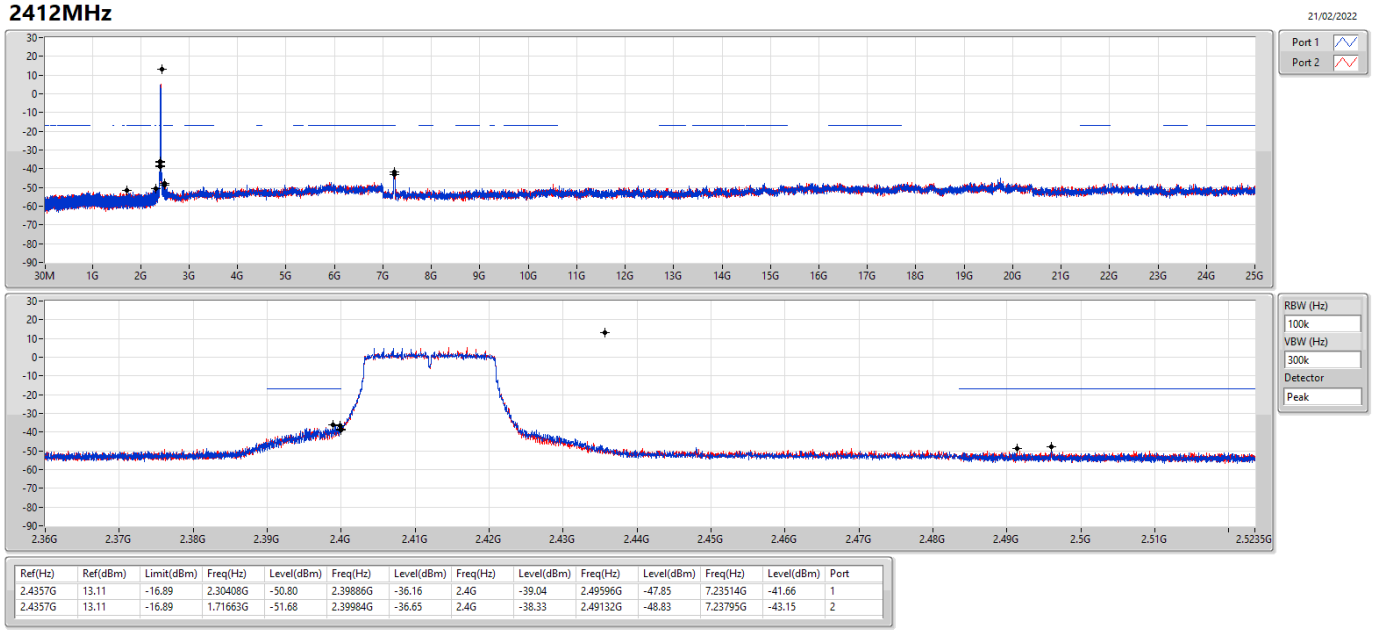
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	13.44	-16.56	2.30408G	-50.12	2.39998G	-45.87	2.4G	-45.05	2.4835G	-46.60	23.55588G	-46.58	1
2.43198G	13.44	-16.56	2.30262G	-51.73	2.4G	-49.13	2.4835G	-44.23	2.48352G	-43.97	6.42317G	-46.25	2

802.11n HT20_Nss1,(MCS0)_2TX **CSENdB**

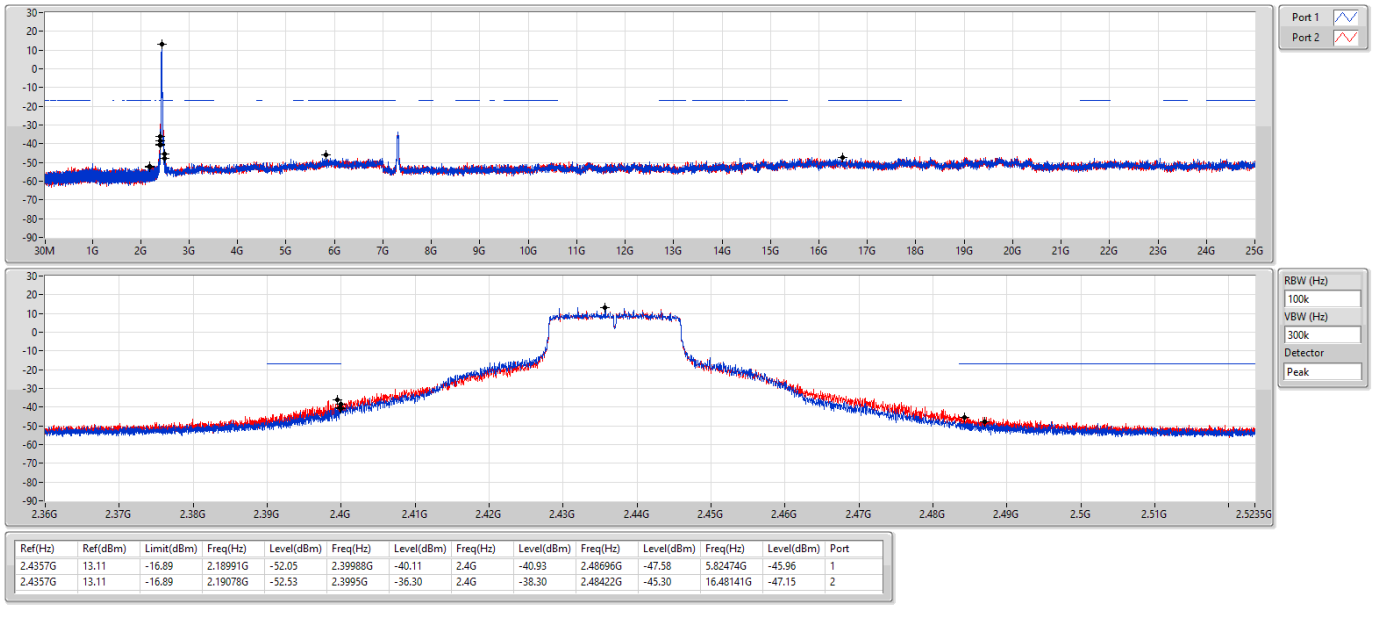
2412MHz



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
2.4357G	13.11	-16.89	2.30408G	-50.80	2.39886G	-36.16	2.4G	-39.04	2.49596G	-47.85	7.23514G	-41.66	1
2.4357G	13.11	-16.89	1.71663G	-51.68	2.39984G	-36.65	2.4G	-38.33	2.49132G	-48.83	7.23795G	-43.15	2

802.11n HT20_Nss1,(MCS0)_2TX **CSENdB**

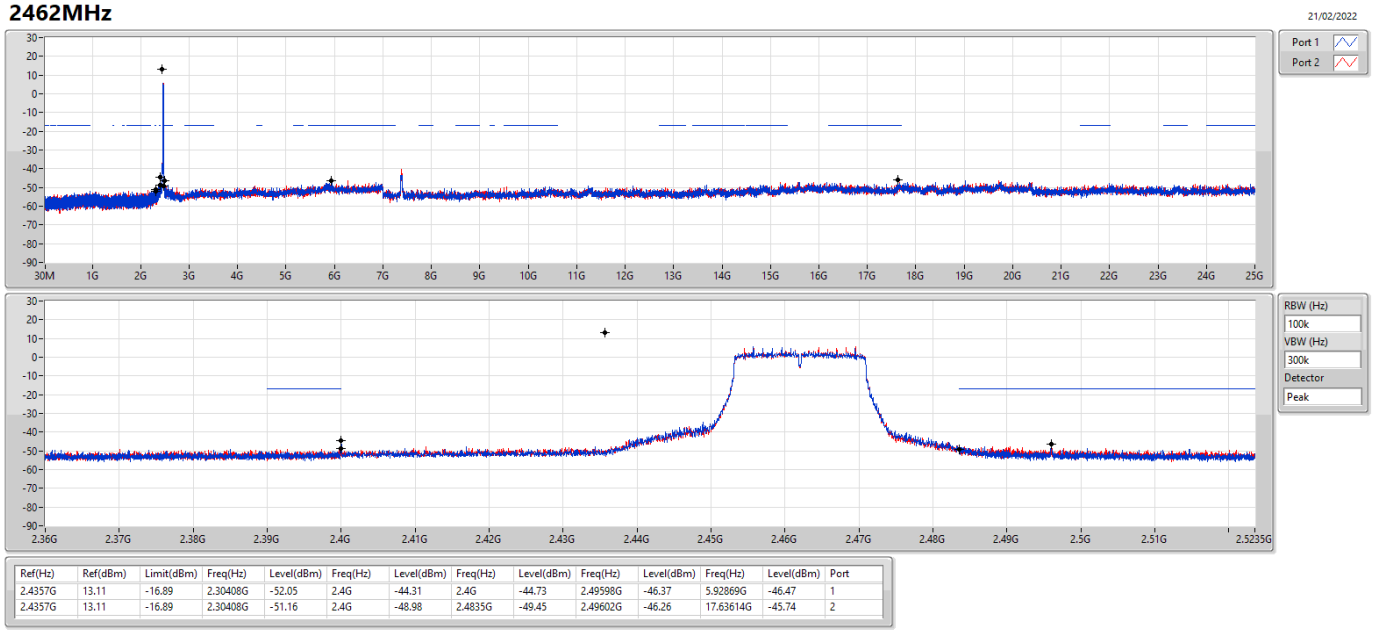
2437MHz



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
2.4357G	13.11	-16.89	2.18991G	-52.05	2.39988G	-40.11	2.4G	-40.93	2.48696G	-47.58	5.82474G	-45.96	1
2.4357G	13.11	-16.89	2.19078G	-52.53	2.3995G	-36.30	2.4G	-38.30	2.48422G	-45.30	16.48141G	-47.15	2

802.11n HT20_Nss1,(MCS0)_2TX **CSENdB**

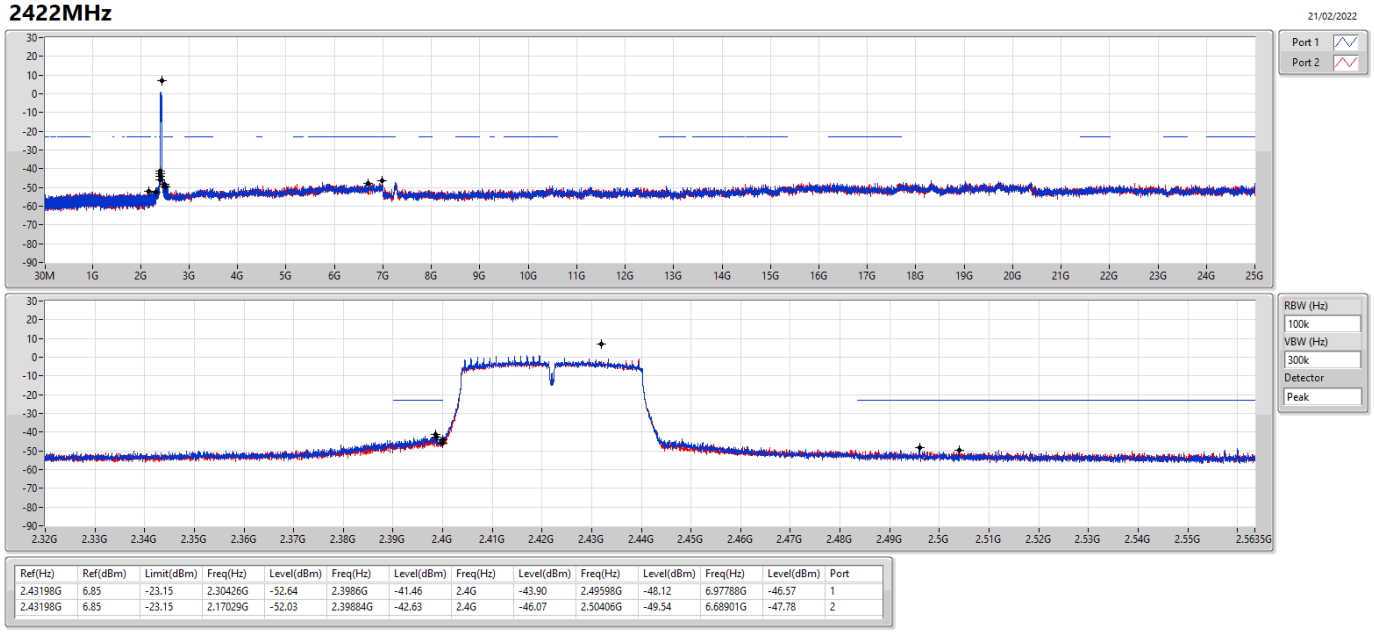
2462MHz



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
2.4357G	13.11	-16.89	2.30408G	-52.05	2.4G	-44.31	2.4G	-44.73	2.49598G	-46.37	5.92869G	-46.47	1
2.4357G	13.11	-16.89	2.30408G	-51.16	2.4G	-48.98	2.4835G	-49.45	2.49602G	-46.26	17.63614G	-45.74	2

802.11n HT40_Nss1,(MCS0)_2TX **CSENdB**

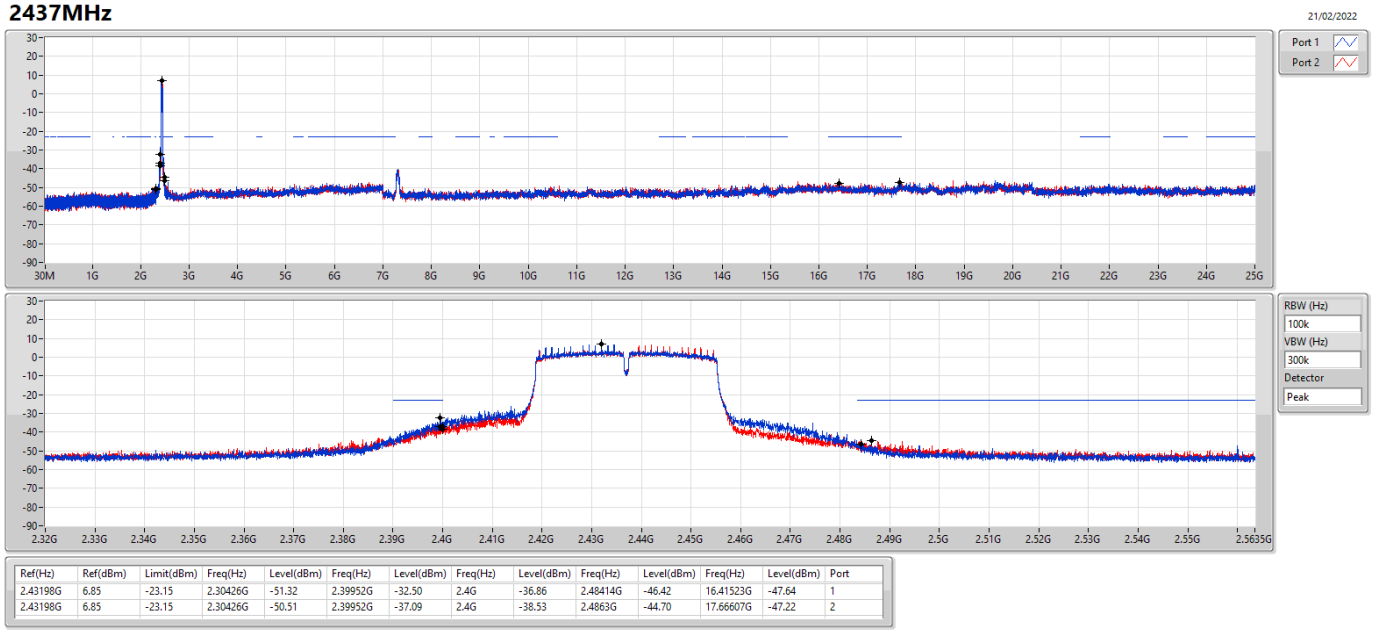
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	6.85	-23.15	2.30426G	-52.64	2.3986G	-41.46	2.4G	-43.90	2.49598G	-48.12	6.97788G	-46.57	1
2.43198G	6.85	-23.15	2.17029G	-52.03	2.39884G	-42.63	2.4G	-46.07	2.50406G	-49.54	6.68901G	-47.78	2

802.11n HT40_Nss1,(MCS0)_2TX **CSENdB**

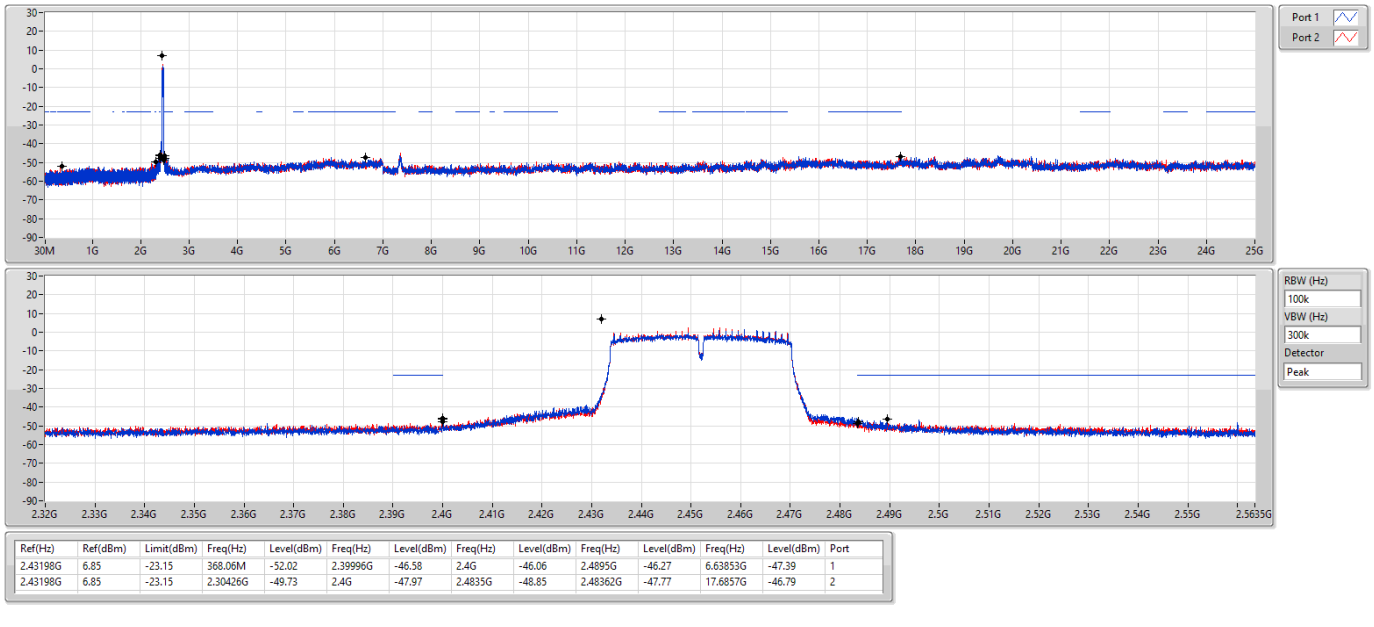
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	6.85	-23.15	2.30426G	-51.32	2.39952G	-32.50	2.4G	-36.86	2.48414G	-46.42	16.41523G	-47.64	1
2.43198G	6.85	-23.15	2.30426G	-50.51	2.39952G	-37.09	2.4G	-38.53	2.4863G	-44.70	17.66607G	-47.22	2

802.11n HT40_Nss1,(MCS0)_2TX **CSENdB**

2452MHz

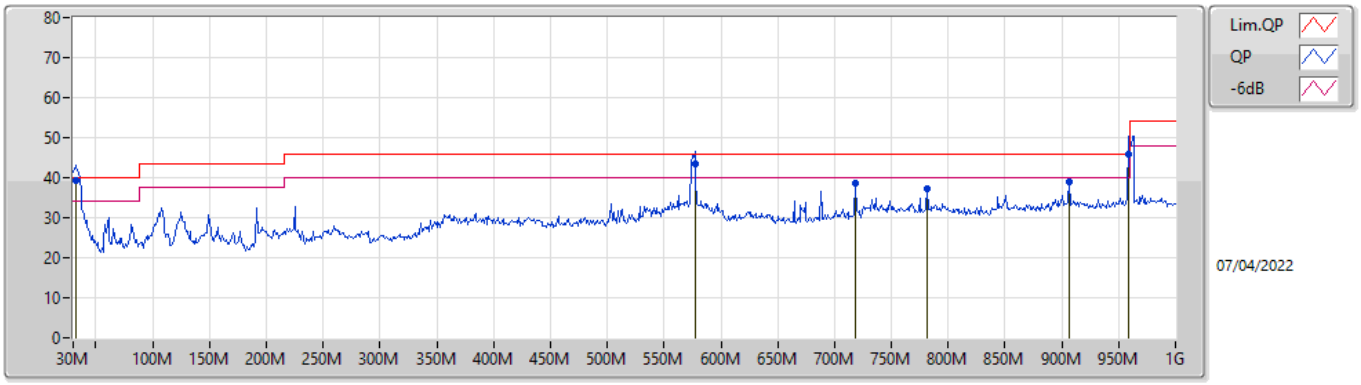


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	6.85	-23.15	368.06M	-52.02	2.39996G	-46.58	2.4G	-46.06	2.4895G	-46.27	6.63853G	-47.39	1
2.43198G	6.85	-23.15	2.30426G	-49.73	2.4G	-47.97	2.4835G	-48.85	2.48362G	-47.77	17.68577G	-46.79	2

Summary

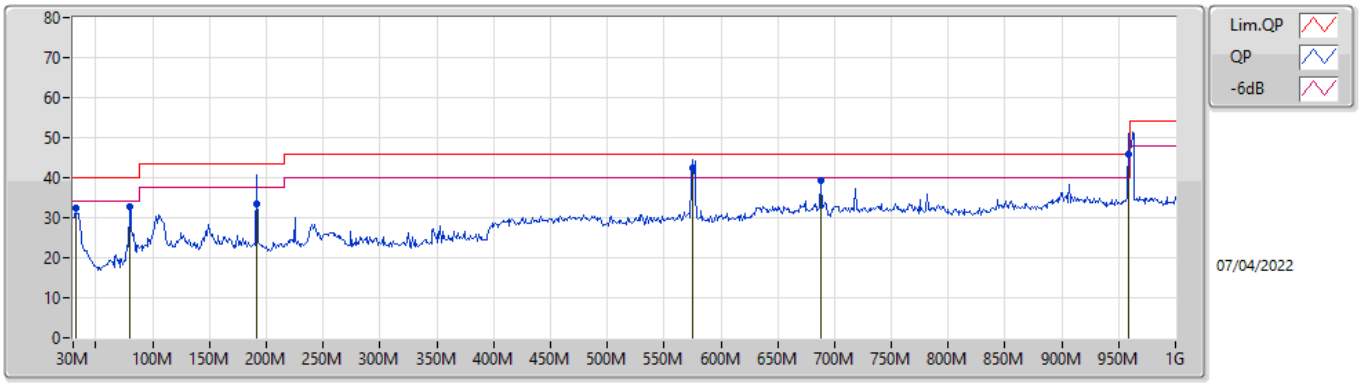
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	958.29M	45.95	46.00	-0.05	Horizontal

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
QP	31.94M	39.25	40.00	-0.75	-8.04	3	Vertical	354	1.00	-	47.29	22.59	1.54	32.17
QP	577.08M	43.46	46.00	-2.54	-5.05	3	Vertical	131	1.00	-	48.51	24.76	3.10	32.91
PK	718.7M	38.79	46.00	-7.21	-4.19	3	Vertical	147	1.25	-	42.98	25.69	3.44	33.32
PK	781.75M	37.12	46.00	-8.88	-4.20	3	Vertical	250	1.25	-	41.32	25.75	3.56	33.51
PK	906.88M	39.10	46.00	-6.90	-2.15	3	Vertical	3	2.00	-	41.25	26.95	3.90	33.00
QP	958.29M	45.73	46.00	-0.27	-1.39	3	Vertical	234	1.00	"Worst"	47.12	27.01	3.90	32.30

Mode 3



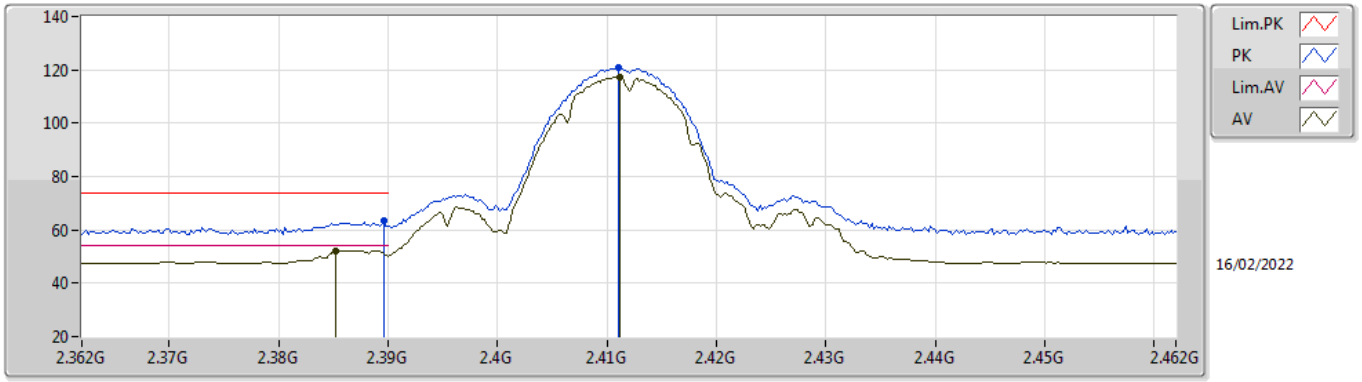
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	31.94M	32.52	40.00	-7.48	-8.04	3	Horizontal	254	2.00	-	40.56	22.59	1.54	32.17
PK	79.47M	32.67	40.00	-7.33	-17.57	3	Horizontal	131	1.50	-	50.24	12.75	1.80	32.12
QP	191.99M	33.59	43.50	-9.91	-14.94	3	Horizontal	90	1.25	-	48.53	15.08	2.06	32.08
QP	575.14M	42.55	46.00	-3.45	-5.07	3	Horizontal	173	1.25	-	47.62	24.74	3.10	32.91
PK	687.66M	39.21	46.00	-6.79	-4.68	3	Horizontal	191	1.00	-	43.89	25.25	3.38	33.31
QP	958.29M	45.95	46.00	-0.05	-1.39	3	Horizontal	115	1.25	"Worst"	47.34	27.01	3.90	32.30

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.4836G	53.97	54.00	-0.03	3	Vertical	19	1.27	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

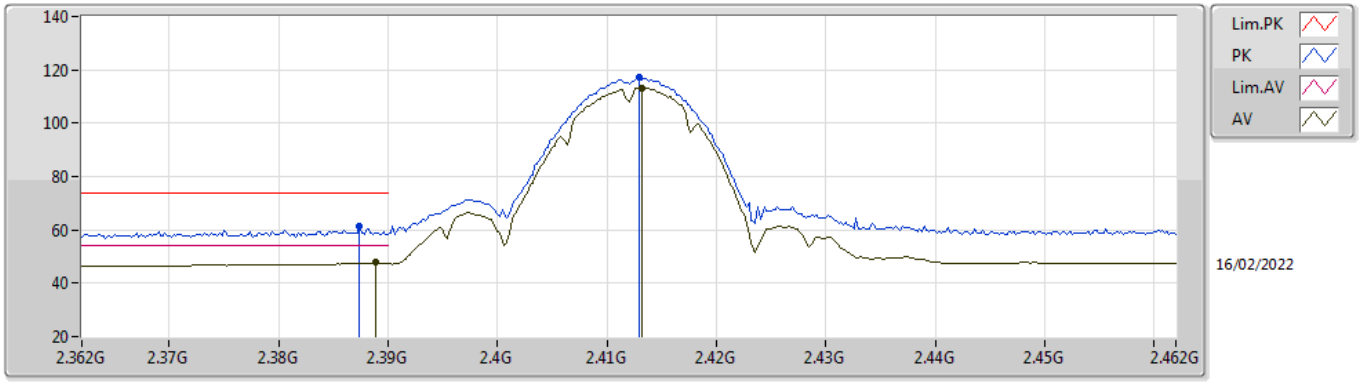


EUT Y_2TX
Setting 25
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3896G	63.21	74.00	-10.79	32.04	3	Vertical	360	1.08	-	28.38	2.79	-
AV	2.3852G	52.32	54.00	-1.68	21.16	3	Vertical	360	1.08	-	28.37	2.79	-
PK	2.411G	121.10	Inf	-Inf	89.89	3	Vertical	360	1.08	-	28.40	2.81	-
AV	2.4112G	117.37	Inf	-Inf	86.16	3	Vertical	360	1.08	-	28.40	2.81	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

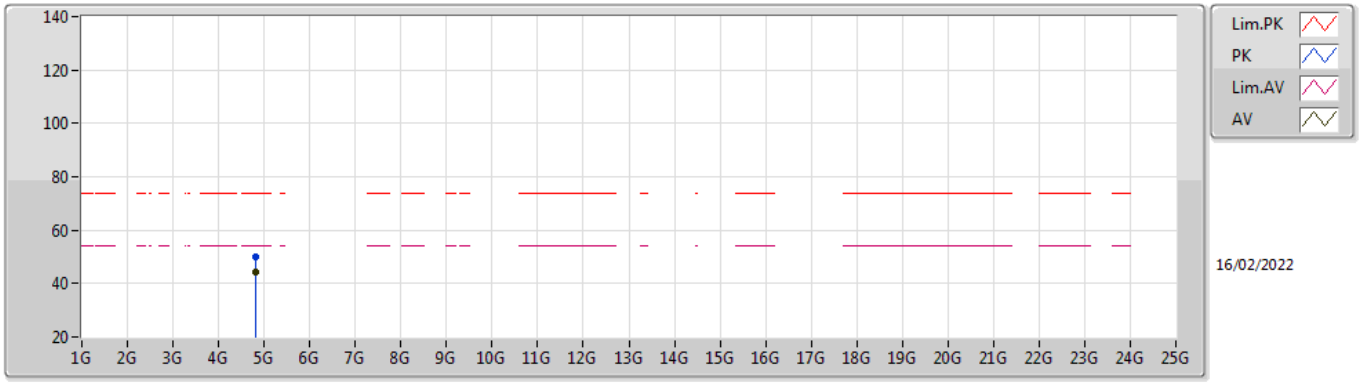


EUT Y_2TX
Setting 25
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3874G	61.51	74.00	-12.49	30.35	3	Horizontal	295	2.21	-	28.37	2.79	-
AV	2.3888G	47.71	54.00	-6.29	16.54	3	Horizontal	295	2.21	-	28.38	2.79	-
PK	2.413G	117.01	Inf	-Inf	85.80	3	Horizontal	295	2.21	-	28.40	2.81	-
AV	2.4132G	113.05	Inf	-Inf	81.84	3	Horizontal	295	2.21	-	28.40	2.81	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

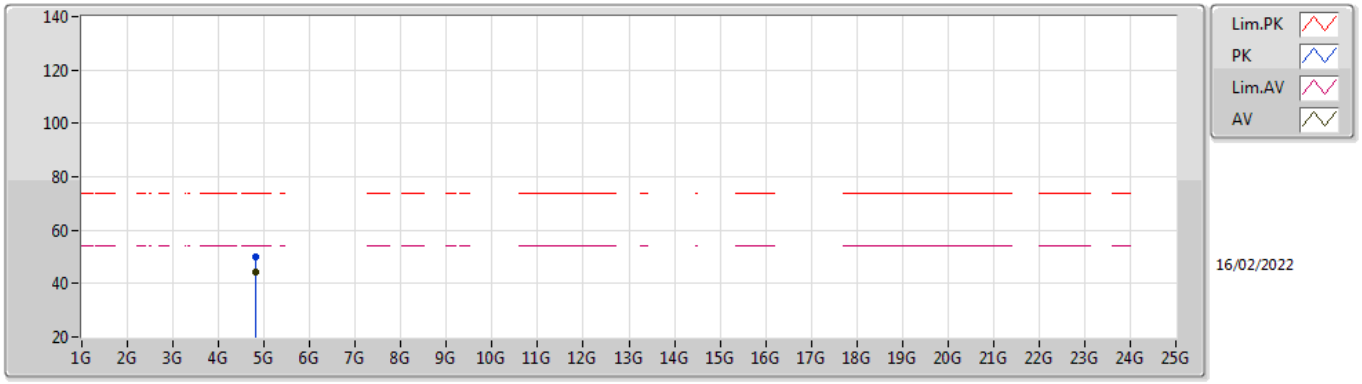


EUT Z_2TX
Setting 25
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82399G	49.75	74.00	-24.25	44.07	3	Vertical	347	1.78	-	32.80	5.10	32.22
AV	4.824G	44.51	54.00	-9.49	38.83	3	Vertical	347	1.78	-	32.80	5.10	32.22

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

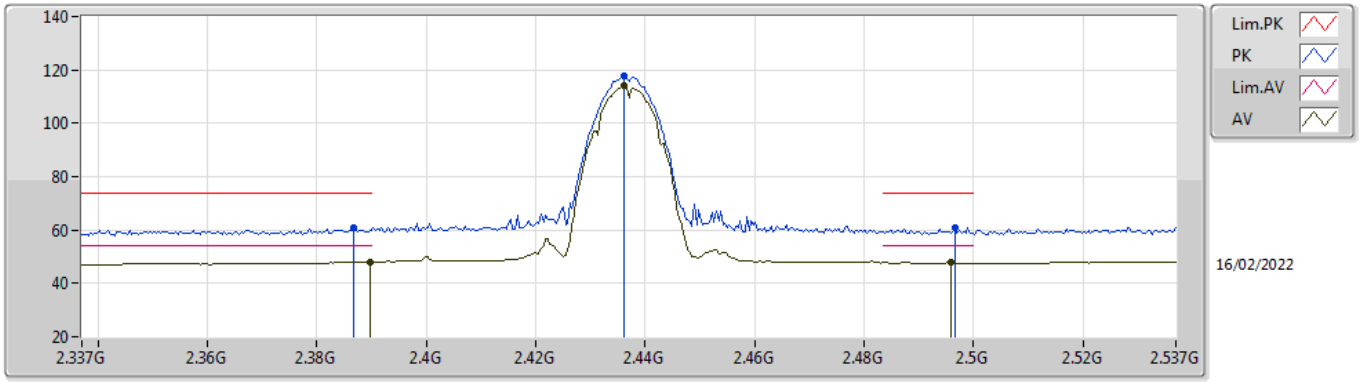


EUT Z_2TX
Setting 25
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82396G	50.07	74.00	-23.93	44.39	3	Horizontal	157	1.85	-	32.80	5.10	32.22
AV	4.824G	44.46	54.00	-9.54	38.78	3	Horizontal	157	1.85	-	32.80	5.10	32.22

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

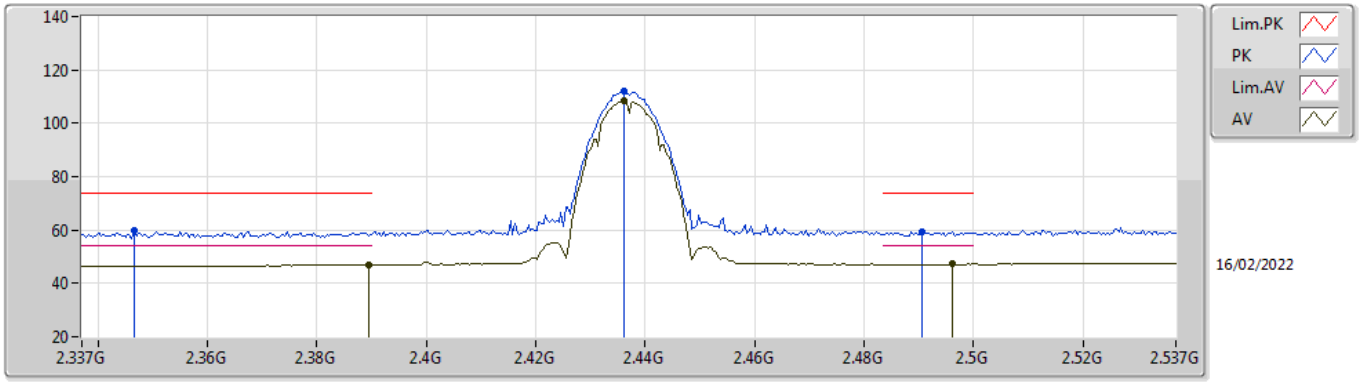


EUT Y_2TX
Setting 21
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3866G	60.80	74.00	-13.20	29.64	3	Vertical	343	1.26	-	28.37	2.79	-
AV	2.3898G	48.07	54.00	-5.93	16.90	3	Vertical	343	1.26	-	28.38	2.79	-
PK	2.4362G	117.70	Inf	-Inf	86.46	3	Vertical	343	1.26	-	28.40	2.84	-
AV	2.4362G	114.04	Inf	-Inf	82.80	3	Vertical	343	1.26	-	28.40	2.84	-
PK	2.4966G	60.87	74.00	-13.13	29.38	3	Vertical	343	1.26	-	28.59	2.90	-
AV	2.4958G	47.89	54.00	-6.11	16.41	3	Vertical	343	1.26	-	28.58	2.90	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

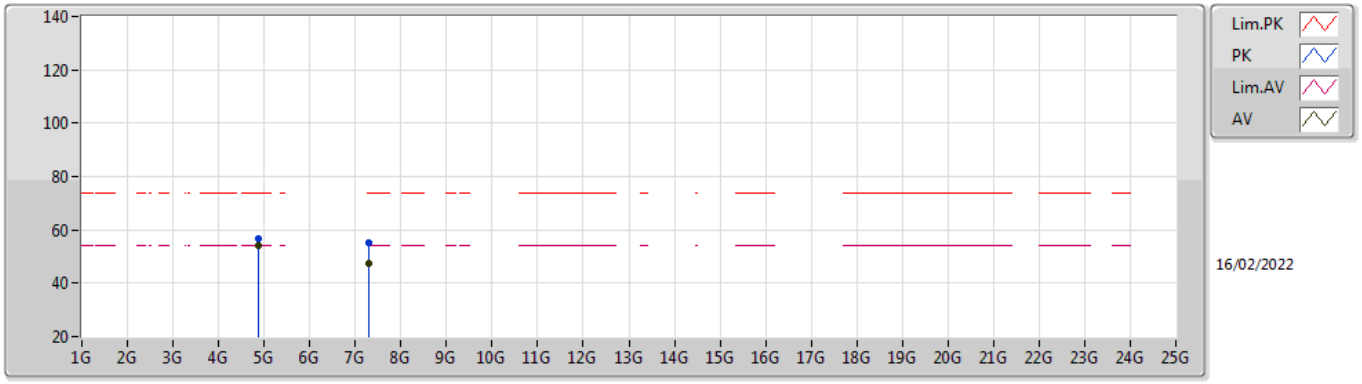


EUT Y_2TX
Setting 21
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3466G	60.07	74.00	-13.93	29.01	3	Horizontal	251	1.55	-	28.29	2.77	-
AV	2.3894G	46.94	54.00	-7.06	15.77	3	Horizontal	251	1.55	-	28.38	2.79	-
PK	2.4362G	112.14	Inf	-Inf	80.90	3	Horizontal	251	1.55	-	28.40	2.84	-
AV	2.4362G	108.46	Inf	-Inf	77.22	3	Horizontal	251	1.55	-	28.40	2.84	-
PK	2.4906G	59.42	74.00	-14.58	27.97	3	Horizontal	251	1.55	-	28.56	2.89	-
AV	2.4962G	47.37	54.00	-6.63	15.89	3	Horizontal	251	1.55	-	28.58	2.90	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

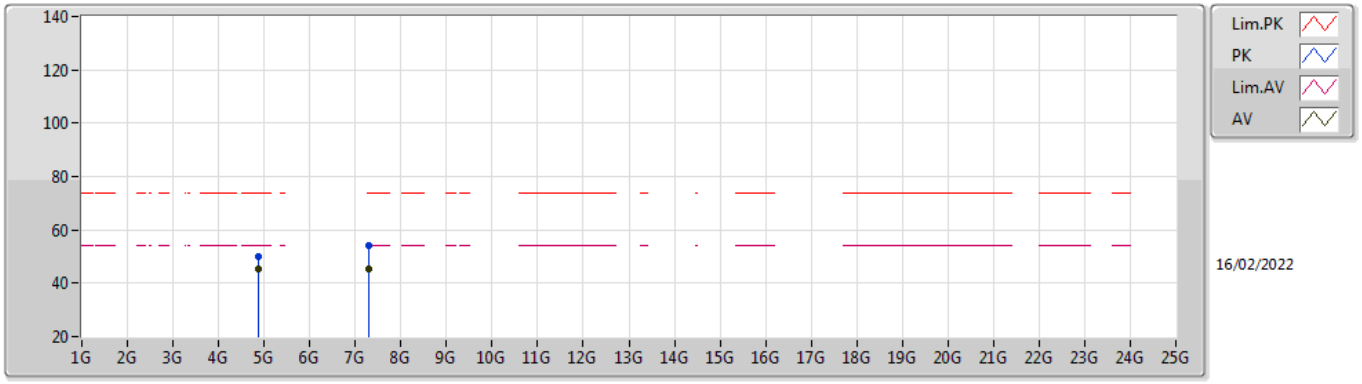


EUT Z_2TX
Setting 21
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87397G	56.77	74.00	-17.23	50.93	3	Vertical	19	1.93	-	32.95	5.10	32.21
AV	4.874G	53.94	54.00	-0.06	48.10	3	Vertical	19	1.93	-	32.95	5.10	32.21
PK	7.3095G	55.21	74.00	-18.79	45.46	3	Vertical	23	1.95	-	36.42	6.15	32.82
AV	7.30978G	47.24	54.00	-6.76	37.49	3	Vertical	23	1.95	-	36.42	6.15	32.82

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

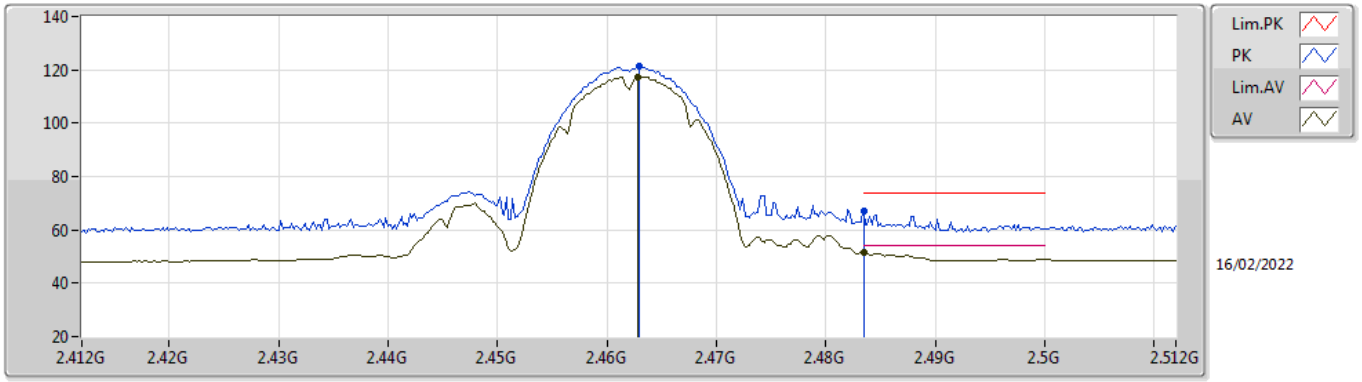


EUT Z_2TX
Setting 21
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87398G	50.15	74.00	-23.85	44.31	3	Horizontal	340	2.60	-	32.95	5.10	32.21
AV	4.87398G	45.31	54.00	-8.69	39.47	3	Horizontal	340	2.60	-	32.95	5.10	32.21
PK	7.30954G	54.03	74.00	-19.97	44.28	3	Horizontal	256	1.94	-	36.42	6.15	32.82
AV	7.30978G	45.50	54.00	-8.50	35.75	3	Horizontal	256	1.94	-	36.42	6.15	32.82

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

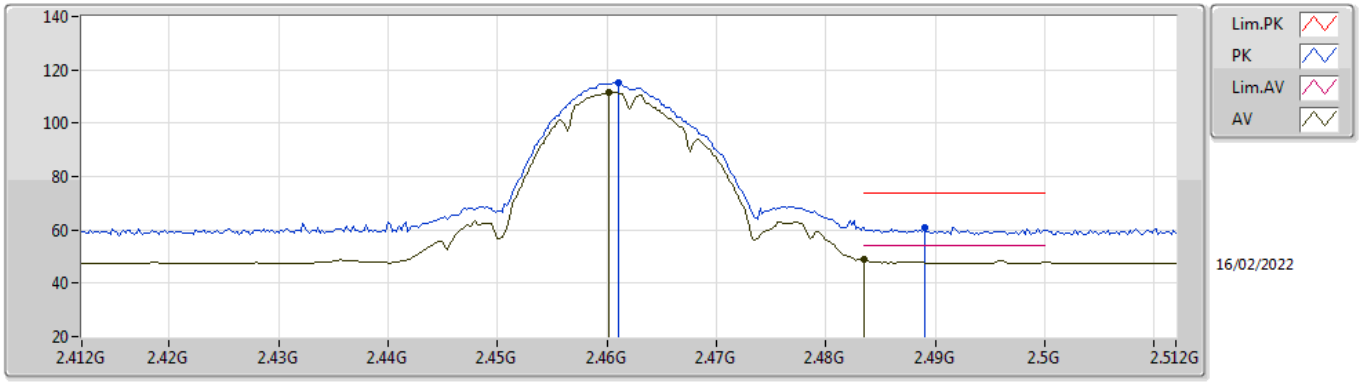


EUT Y_2TX
Setting 24.5
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.463G	121.32	Inf	-Inf	90.01	3	Vertical	342	2.06	-	28.45	2.86	-
AV	2.4628G	117.39	Inf	-Inf	86.08	3	Vertical	342	2.06	-	28.45	2.86	-
PK	2.4835G	67.21	74.00	-6.79	35.80	3	Vertical	342	2.06	-	28.53	2.88	-
AV	2.4835G	51.69	54.00	-2.31	20.28	3	Vertical	342	2.06	-	28.53	2.88	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

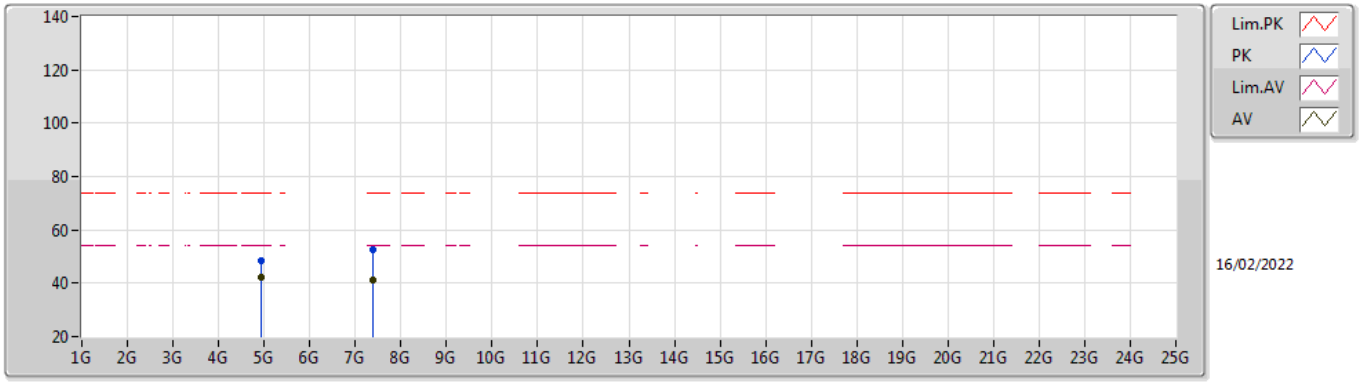


EUT Y_2TX
Setting 24.5
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.461G	115.06	Inf	-Inf	83.76	3	Horizontal	286	2.20	-	28.44	2.86	-
AV	2.4602G	111.49	Inf	-Inf	80.19	3	Horizontal	286	2.20	-	28.44	2.86	-
PK	2.489G	60.96	74.00	-13.04	29.51	3	Horizontal	286	2.20	-	28.56	2.89	-
AV	2.4835G	48.71	54.00	-5.29	17.30	3	Horizontal	286	2.20	-	28.53	2.88	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

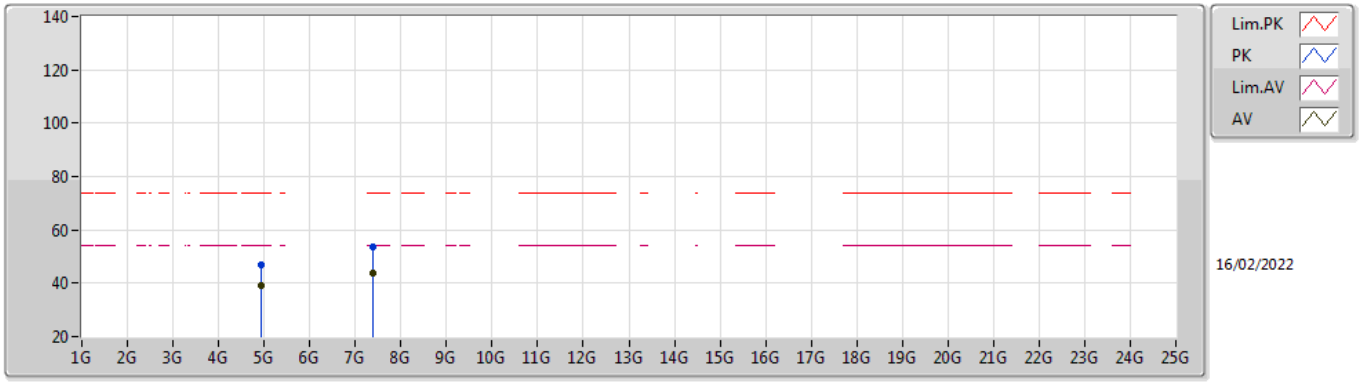


EUT Z_2TX
Setting 24.5
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92387G	48.26	74.00	-25.74	42.21	3	Vertical	335	1.10	-	33.14	5.10	32.19
AV	4.92398G	42.41	54.00	-11.59	36.36	3	Vertical	335	1.10	-	33.14	5.10	32.19
PK	7.38672G	52.37	74.00	-21.63	42.56	3	Vertical	16	2.17	-	36.57	6.19	32.95
AV	7.3867G	41.34	54.00	-12.66	31.53	3	Vertical	16	2.17	-	36.57	6.19	32.95

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

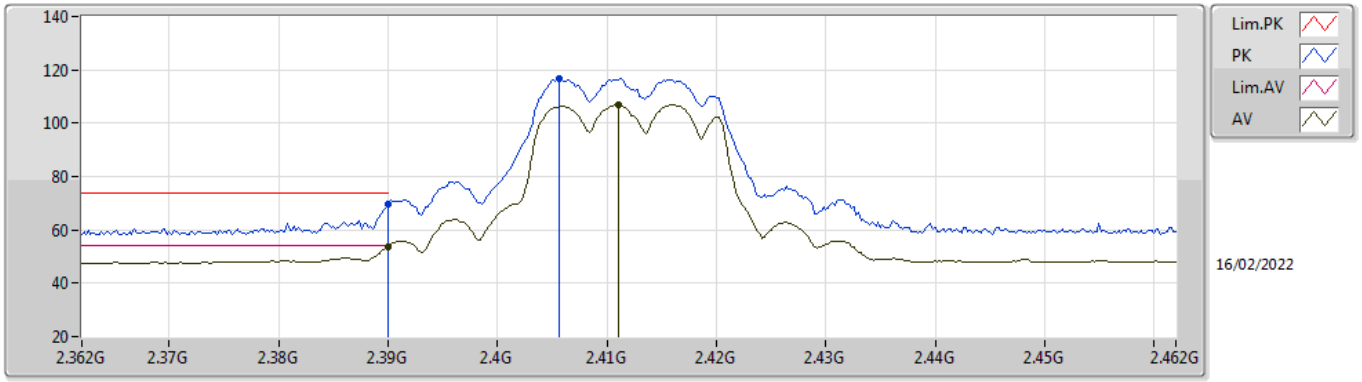


EUT Z_2TX
Setting 24.5
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92388G	46.68	74.00	-27.32	40.63	3	Horizontal	314	2.13	-	33.14	5.10	32.19
AV	4.924G	39.39	54.00	-14.61	33.34	3	Horizontal	314	2.13	-	33.14	5.10	32.19
PK	7.38352G	53.46	74.00	-20.54	43.65	3	Horizontal	70	2.21	-	36.57	6.19	32.95
AV	7.38388G	43.86	54.00	-10.14	34.05	3	Horizontal	70	2.21	-	36.57	6.19	32.95

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

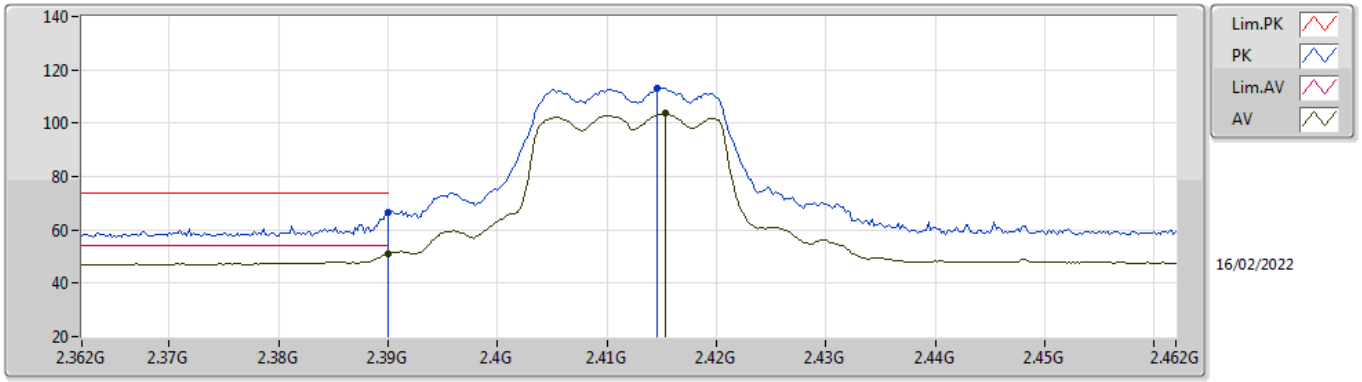


EUT Y_2TX
Setting 19
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	69.72	74.00	-4.28	38.55	3	Vertical	300	1.71	-	28.38	2.79	-
AV	2.39G	53.86	54.00	-0.14	22.69	3	Vertical	300	1.71	-	28.38	2.79	-
PK	2.4056G	116.66	Inf	-Inf	85.45	3	Vertical	300	1.71	-	28.40	2.81	-
AV	2.411G	106.94	Inf	-Inf	75.73	3	Vertical	300	1.71	-	28.40	2.81	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

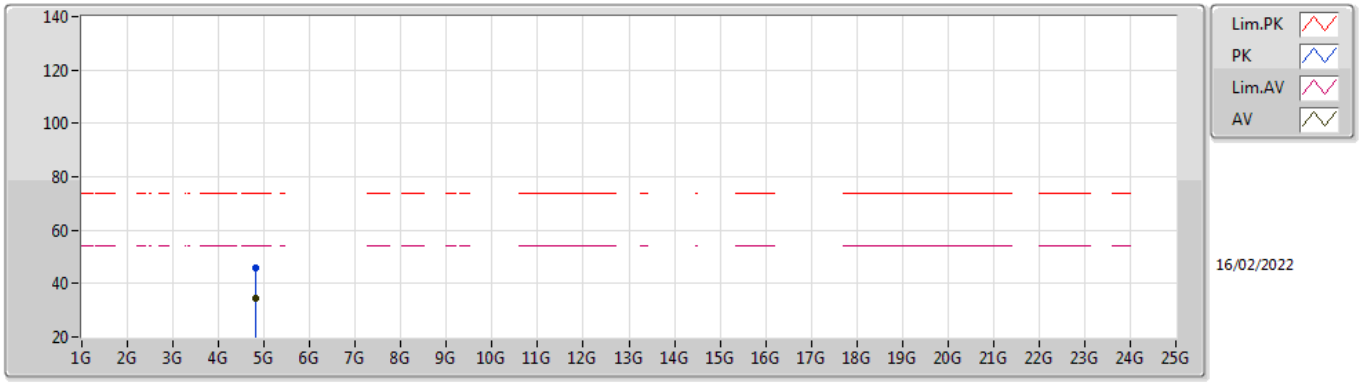


EUT Y_2TX
Setting 19
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	66.46	74.00	-7.54	35.29	3	Horizontal	292	2.03	-	28.38	2.79	-
AV	2.39G	50.90	54.00	-3.10	19.73	3	Horizontal	292	2.03	-	28.38	2.79	-
PK	2.4146G	113.30	Inf	-Inf	82.09	3	Horizontal	292	2.03	-	28.40	2.81	-
AV	2.4154G	103.54	Inf	-Inf	72.32	3	Horizontal	292	2.03	-	28.40	2.82	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

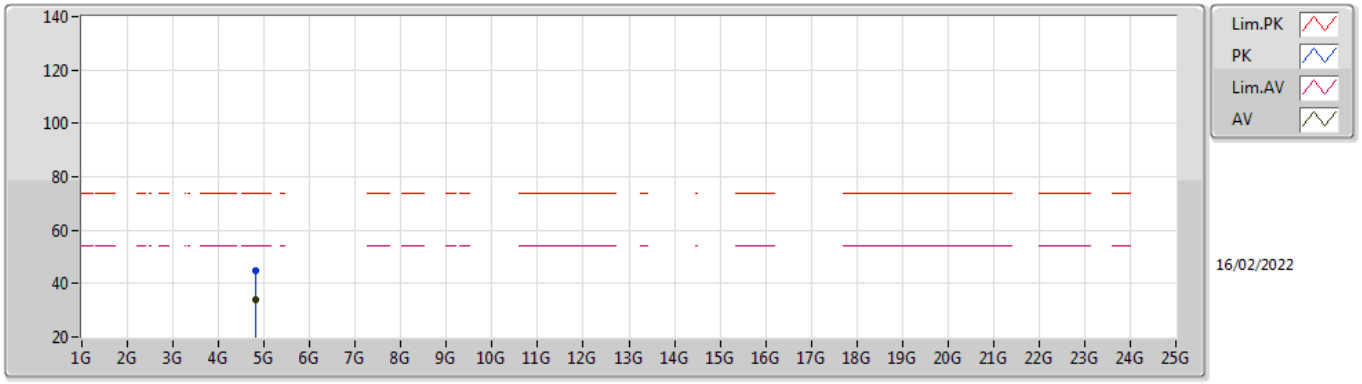


EUT Z_2TX
Setting 19
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82388G	45.62	74.00	-28.38	39.94	3	Vertical	3	1.79	-	32.80	5.10	32.22
AV	4.82394G	34.51	54.00	-19.49	28.83	3	Vertical	3	1.79	-	32.80	5.10	32.22

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

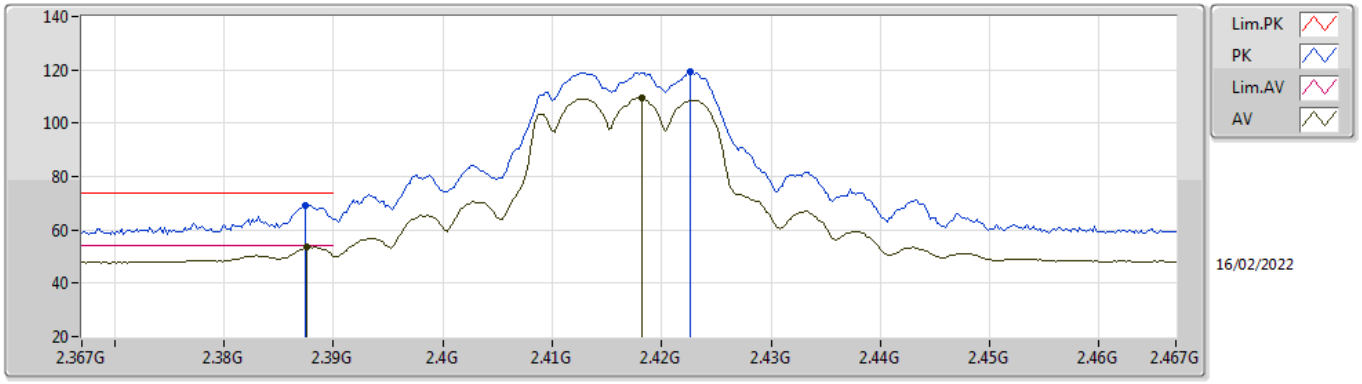


EUT Z_2TX
Setting 19
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82392G	45.00	74.00	-29.00	39.32	3	Horizontal	312	1.69	-	32.80	5.10	32.22
AV	4.82396G	33.92	54.00	-20.08	28.24	3	Horizontal	312	1.69	-	32.80	5.10	32.22

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

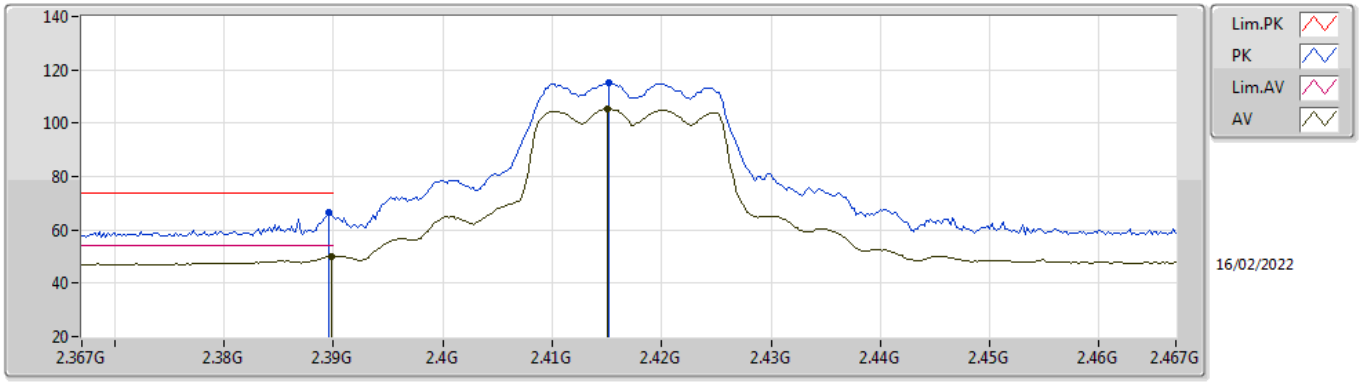


EUT Y_2TX
Setting 22
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3874G	69.39	74.00	-4.61	38.23	3	Vertical	12	1.18	-	28.37	2.79	-
AV	2.3876G	53.56	54.00	-0.44	22.39	3	Vertical	12	1.18	-	28.38	2.79	-
PK	2.4226G	119.22	Inf	-Inf	88.00	3	Vertical	12	1.18	-	28.40	2.82	-
AV	2.4182G	109.41	Inf	-Inf	78.19	3	Vertical	12	1.18	-	28.40	2.82	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

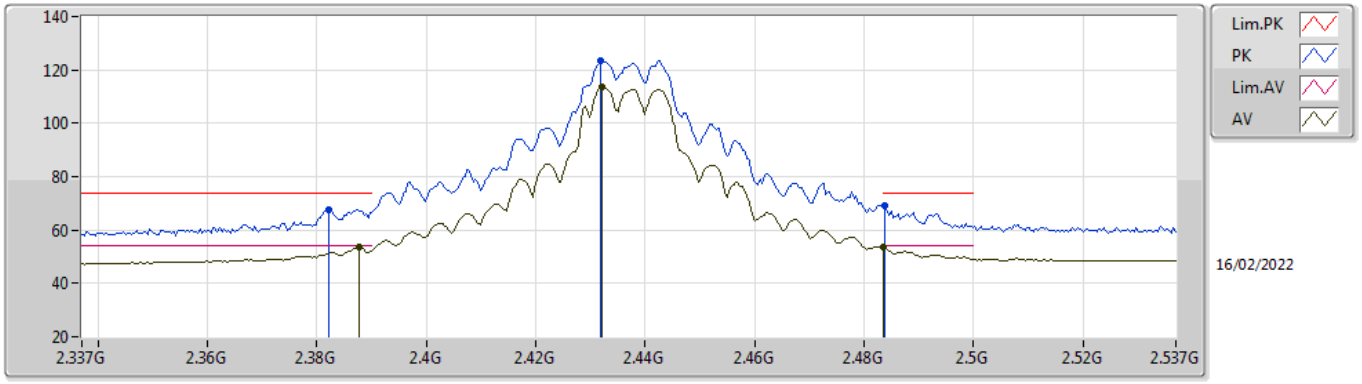


EUT Y_2TX
Setting 22
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3896G	66.57	74.00	-7.43	35.40	3	Horizontal	293	2.04	-	28.38	2.79	-
AV	2.3898G	49.97	54.00	-4.03	18.80	3	Horizontal	293	2.04	-	28.38	2.79	-
PK	2.4152G	114.98	Inf	-Inf	83.76	3	Horizontal	293	2.04	-	28.40	2.82	-
AV	2.415G	105.33	Inf	-Inf	74.12	3	Horizontal	293	2.04	-	28.40	2.81	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

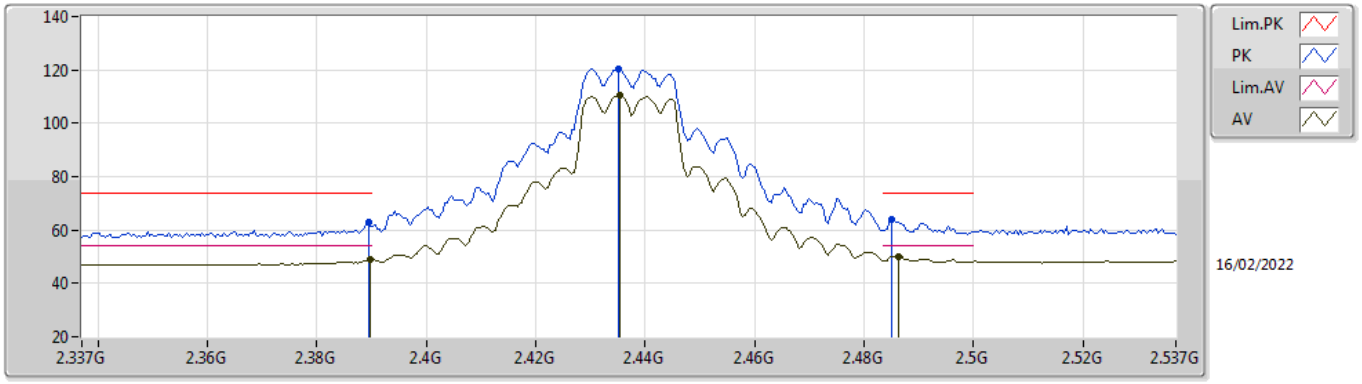


EUT Y_2TX
Setting 26
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3822G	67.80	74.00	-6.20	36.65	3	Vertical	18	1.40	-	28.36	2.79	-
AV	2.3878G	53.39	54.00	-0.61	22.22	3	Vertical	18	1.40	-	28.38	2.79	-
PK	2.4318G	123.45	Inf	-Inf	92.22	3	Vertical	18	1.40	-	28.40	2.83	-
AV	2.4322G	113.40	Inf	-Inf	82.17	3	Vertical	18	1.40	-	28.40	2.83	-
PK	2.4838G	69.11	74.00	-4.89	37.69	3	Vertical	18	1.40	-	28.54	2.88	-
AV	2.4835G	53.64	54.00	-0.36	22.23	3	Vertical	18	1.40	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

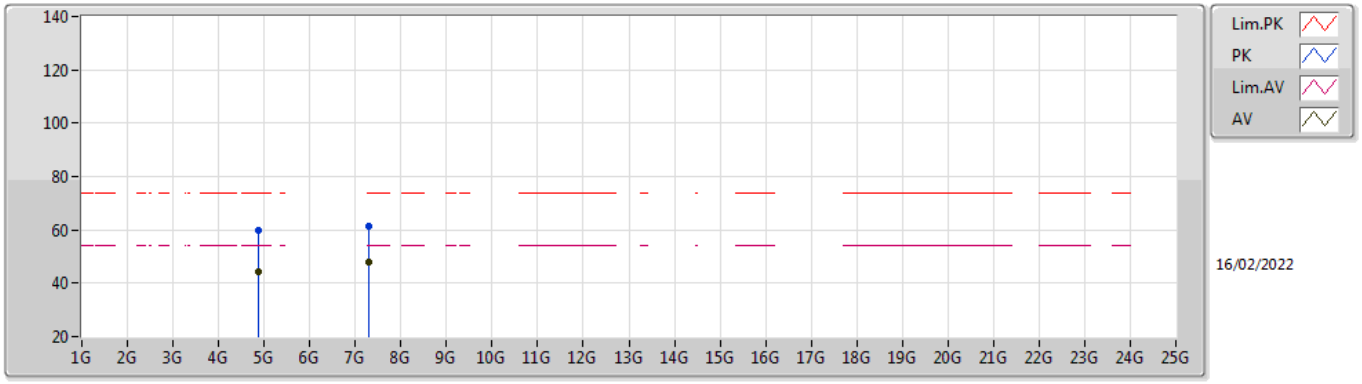


EUT Y_2TX
Setting 26
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3894G	62.89	74.00	-11.11	31.72	3	Horizontal	291	2.64	-	28.38	2.79	-
AV	2.3898G	48.82	54.00	-5.18	17.65	3	Horizontal	291	2.64	-	28.38	2.79	-
PK	2.435G	120.41	Inf	-Inf	89.18	3	Horizontal	291	2.64	-	28.40	2.83	-
AV	2.4354G	110.50	Inf	-Inf	79.26	3	Horizontal	291	2.64	-	28.40	2.84	-
PK	2.485G	64.00	74.00	-10.00	32.57	3	Horizontal	291	2.64	-	28.54	2.89	-
AV	2.4862G	50.06	54.00	-3.94	18.63	3	Horizontal	291	2.64	-	28.54	2.89	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

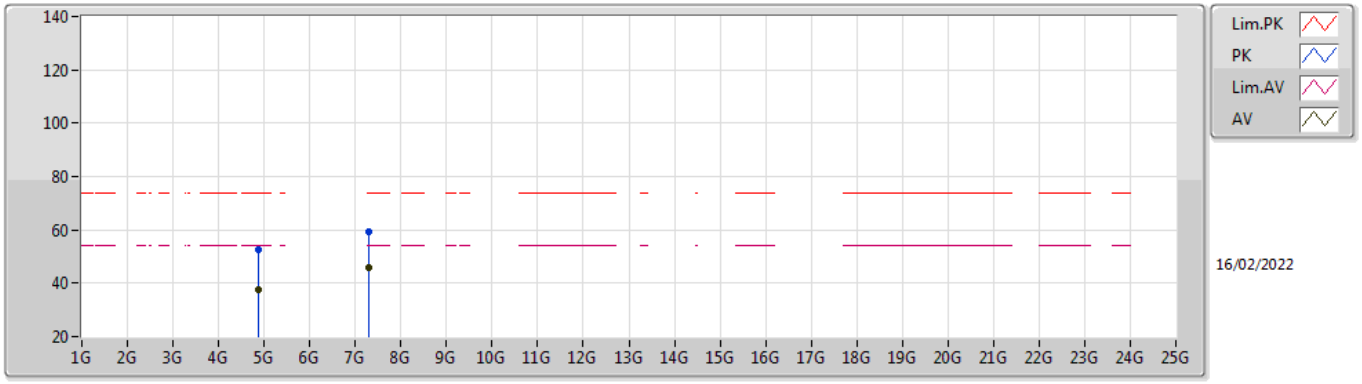


EUT Z_2TX
Setting 26
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.86696G	59.67	74.00	-14.33	53.85	3	Vertical	335	1.80	-	32.93	5.10	32.21
AV	4.87216G	44.19	54.00	-9.81	38.36	3	Vertical	335	1.80	-	32.94	5.10	32.21
PK	7.30556G	61.31	74.00	-12.69	51.56	3	Vertical	20	2.05	-	36.41	6.15	32.81
AV	7.30556G	48.00	54.00	-6.00	38.25	3	Vertical	20	2.05	-	36.41	6.15	32.81

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

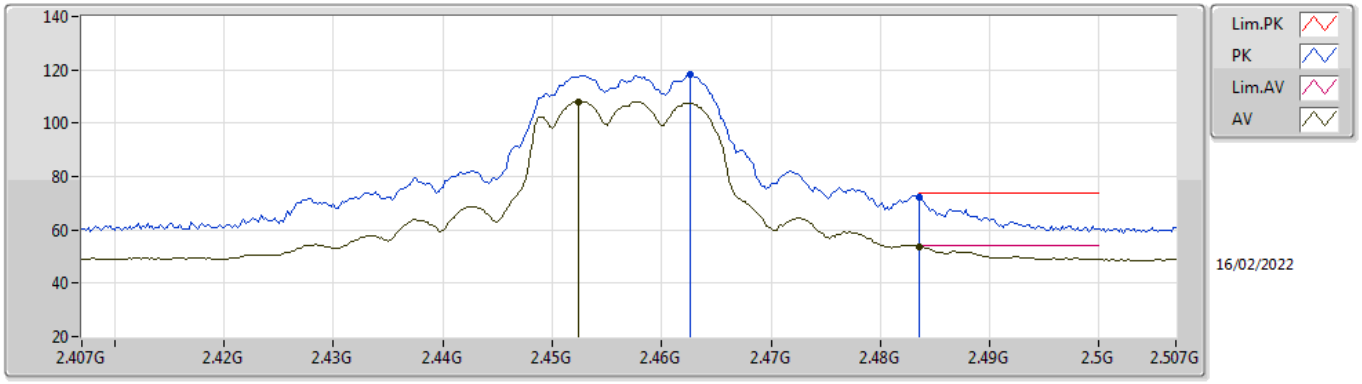


EUT Z_2TX
Setting 26
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.867G	52.83	74.00	-21.17	47.01	3	Horizontal	16	2.59	-	32.93	5.10	32.21
AV	4.8718G	37.78	54.00	-16.22	31.95	3	Horizontal	16	2.59	-	32.94	5.10	32.21
PK	7.2993G	59.31	74.00	-14.69	49.56	3	Horizontal	255	1.80	-	36.40	6.15	32.80
AV	7.304G	45.82	54.00	-8.18	36.07	3	Horizontal	255	1.80	-	36.41	6.15	32.81

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

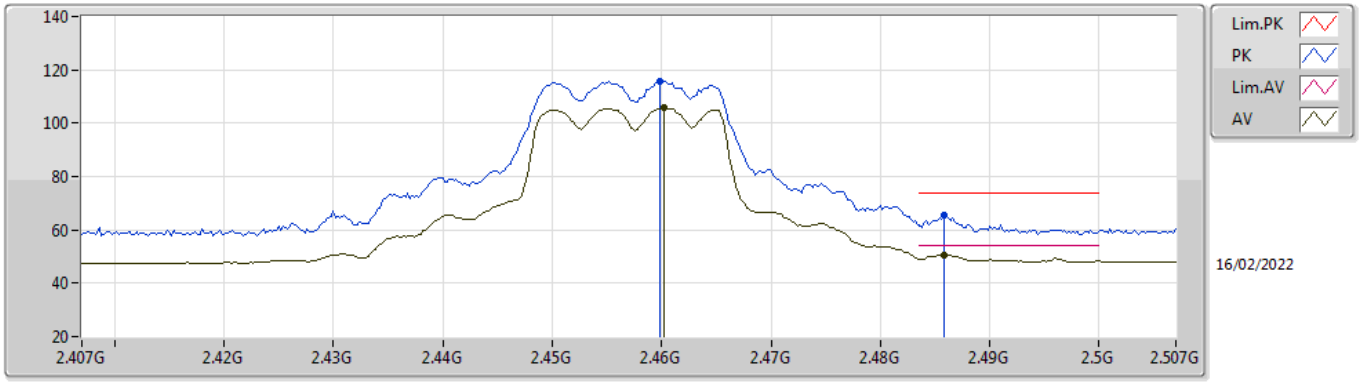


EUT Y_2TX
Setting 22
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4626G	118.25	Inf	-Inf	86.94	3	Vertical	17	1.55	-	28.45	2.86	-
AV	2.4524G	108.18	Inf	-Inf	76.92	3	Vertical	17	1.55	-	28.41	2.85	-
PK	2.4835G	72.42	74.00	-1.58	41.01	3	Vertical	17	1.55	-	28.53	2.88	-
AV	2.4836G	53.61	54.00	-0.39	22.20	3	Vertical	17	1.55	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

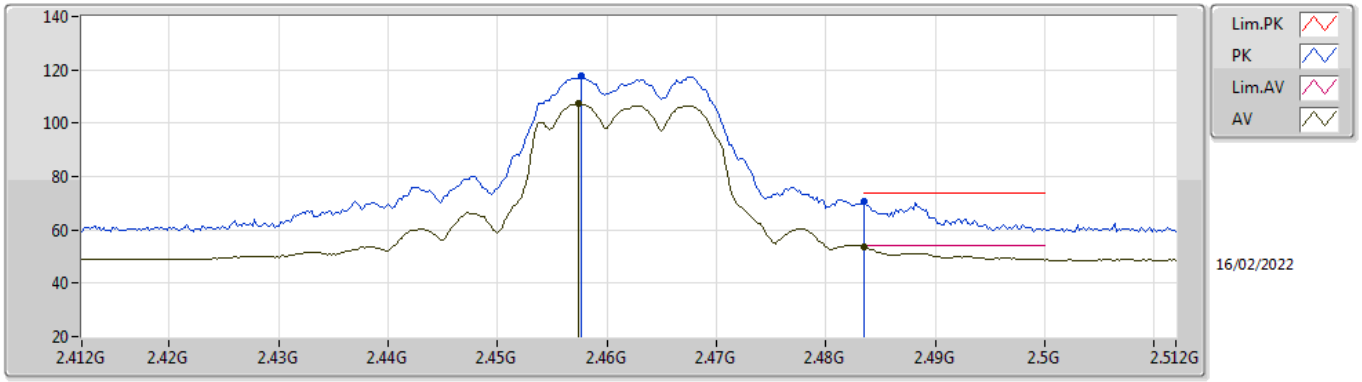


EUT Y_2TX
Setting 22
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4598G	115.78	Inf	-Inf	84.48	3	Horizontal	295	2.59	-	28.44	2.86	-
AV	2.4602G	106.00	Inf	-Inf	74.70	3	Horizontal	295	2.59	-	28.44	2.86	-
PK	2.4858G	65.36	74.00	-8.64	33.93	3	Horizontal	295	2.59	-	28.54	2.89	-
AV	2.4858G	50.77	54.00	-3.23	19.34	3	Horizontal	295	2.59	-	28.54	2.89	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

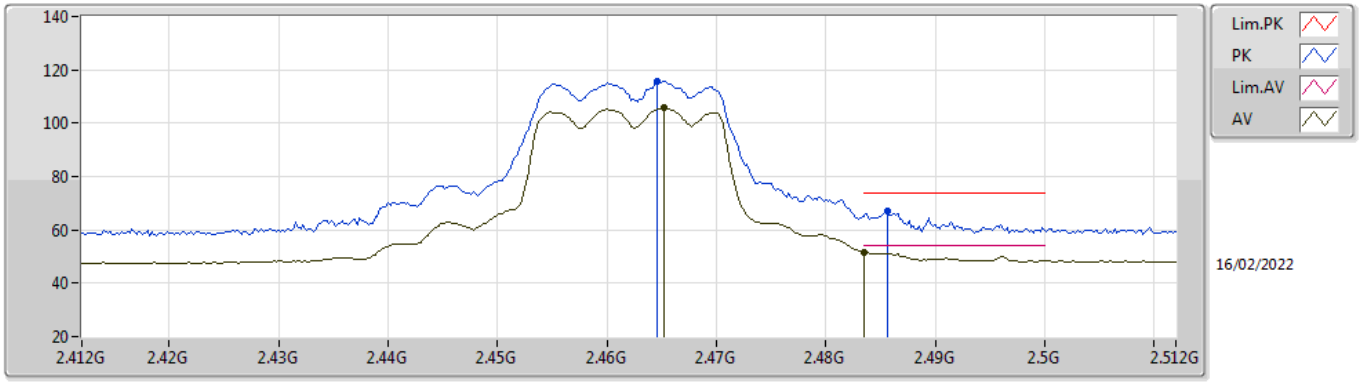


EUT Y_2TX
Setting 20
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4576G	117.71	Inf	-Inf	86.42	3	Vertical	17	1.51	-	28.43	2.86	-
AV	2.4574G	107.36	Inf	-Inf	76.07	3	Vertical	17	1.51	-	28.43	2.86	-
PK	2.4835G	70.66	74.00	-3.34	39.25	3	Vertical	17	1.51	-	28.53	2.88	-
AV	2.4835G	53.51	54.00	-0.49	22.10	3	Vertical	17	1.51	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

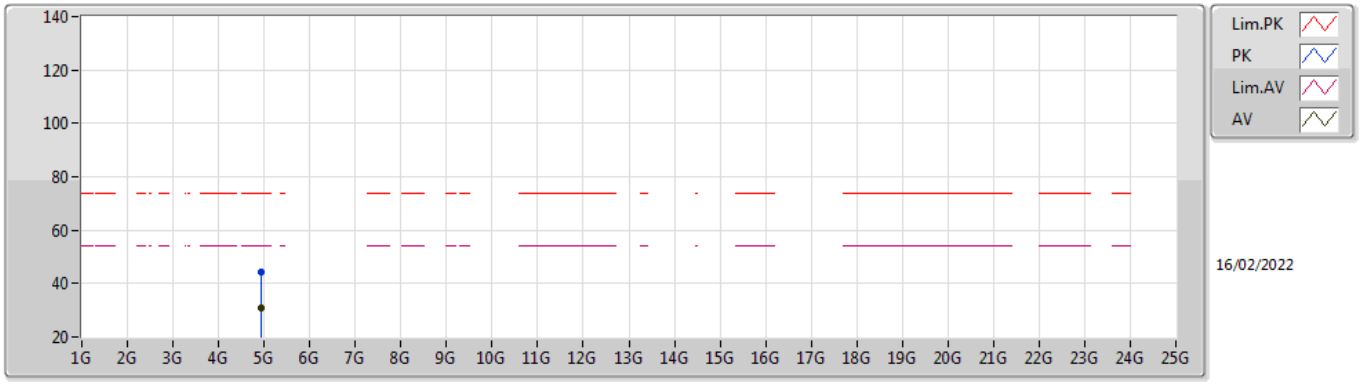


EUT Y_2TX
Setting 20
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4646G	115.62	Inf	-Inf	84.30	3	Horizontal	294	2.57	-	28.46	2.86	-
AV	2.4652G	105.71	Inf	-Inf	74.38	3	Horizontal	294	2.57	-	28.46	2.87	-
PK	2.4856G	66.83	74.00	-7.17	35.40	3	Horizontal	294	2.57	-	28.54	2.89	-
AV	2.4835G	51.52	54.00	-2.48	20.11	3	Horizontal	294	2.57	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

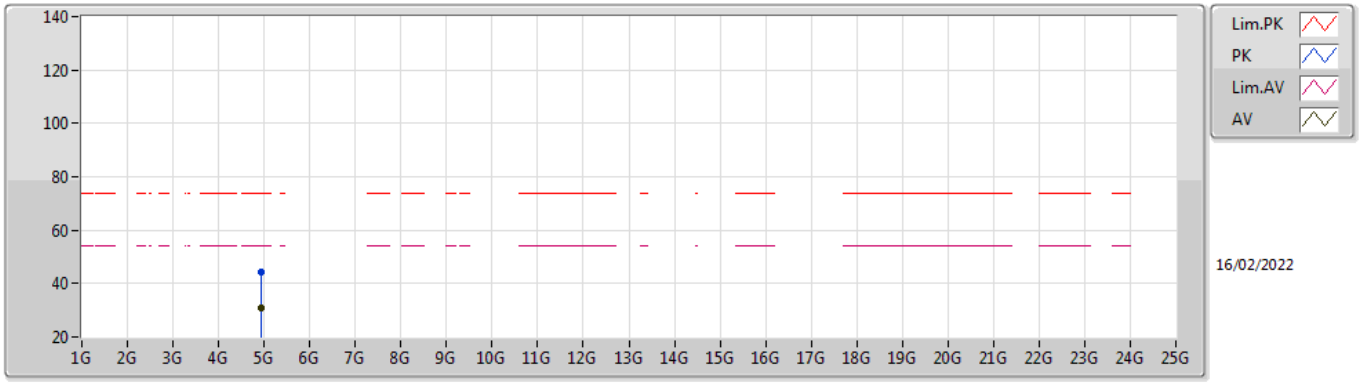


EUT Z_2TX
Setting 20
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92334G	44.53	74.00	-29.47	38.48	3	Vertical	109	2.59	-	33.14	5.10	32.19
AV	4.9271G	30.61	54.00	-23.39	24.54	3	Vertical	109	2.59	-	33.16	5.10	32.19

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

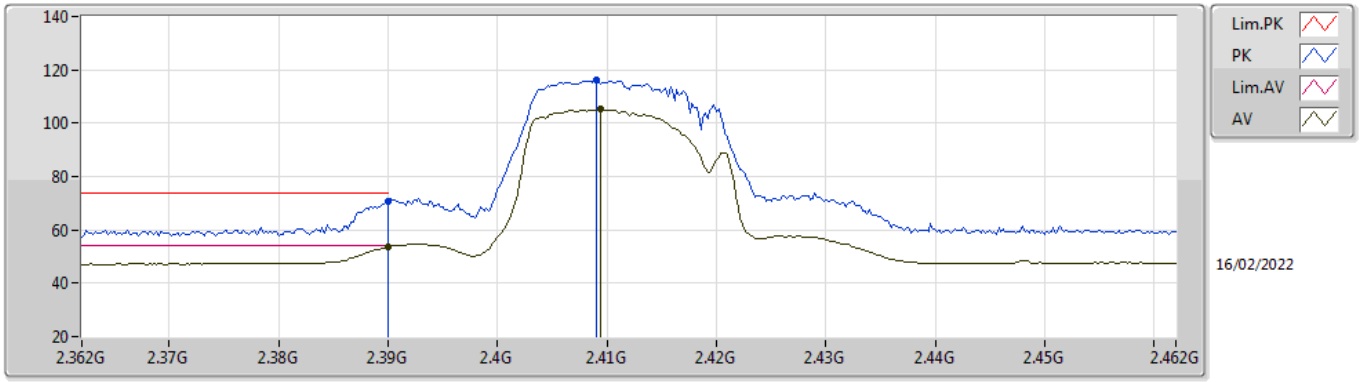


EUT Z_2TX
Setting 20
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92676G	44.09	74.00	-29.91	38.02	3	Horizontal	274	1.08	-	33.16	5.10	32.19
AV	4.92534G	30.61	54.00	-23.39	24.55	3	Horizontal	274	1.08	-	33.15	5.10	32.19

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

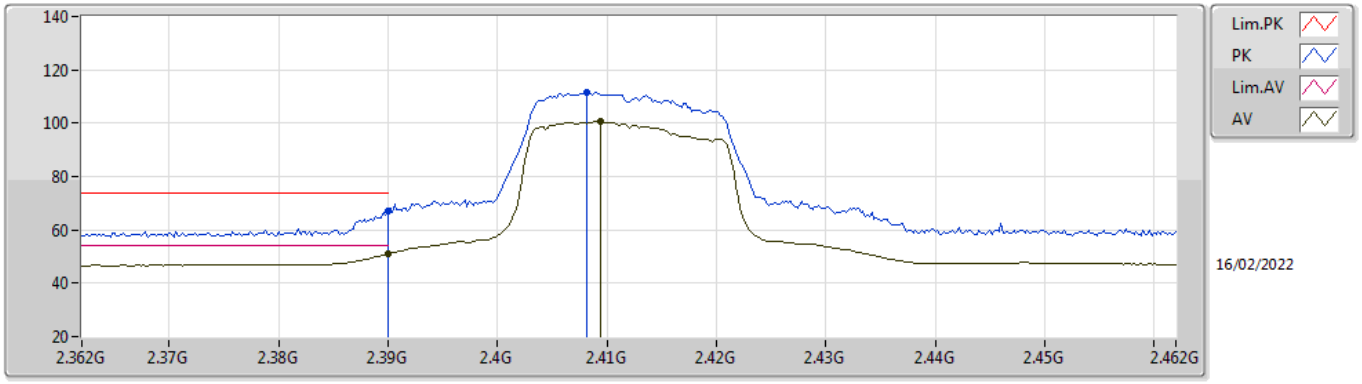


EUT Y_2TX
Setting 18
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	70.83	74.00	-3.17	39.66	3	Vertical	295	1.71	-	28.38	2.79	-
AV	2.39G	53.73	54.00	-0.27	22.56	3	Vertical	295	1.71	-	28.38	2.79	-
PK	2.409G	116.04	Inf	-Inf	84.83	3	Vertical	295	1.71	-	28.40	2.81	-
AV	2.4094G	105.16	Inf	-Inf	73.95	3	Vertical	295	1.71	-	28.40	2.81	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

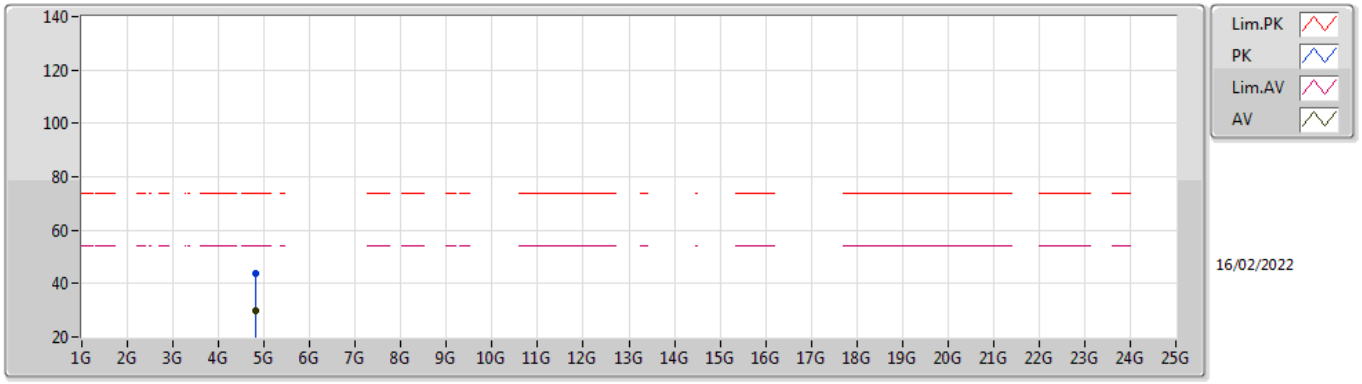


EUT Y_2TX
Setting 18
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	67.30	74.00	-6.70	36.13	3	Horizontal	277	1.80	-	28.38	2.79	-
AV	2.39G	51.20	54.00	-2.80	20.03	3	Horizontal	277	1.80	-	28.38	2.79	-
PK	2.4082G	111.63	Inf	-Inf	80.42	3	Horizontal	277	1.80	-	28.40	2.81	-
AV	2.4094G	100.52	Inf	-Inf	69.31	3	Horizontal	277	1.80	-	28.40	2.81	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

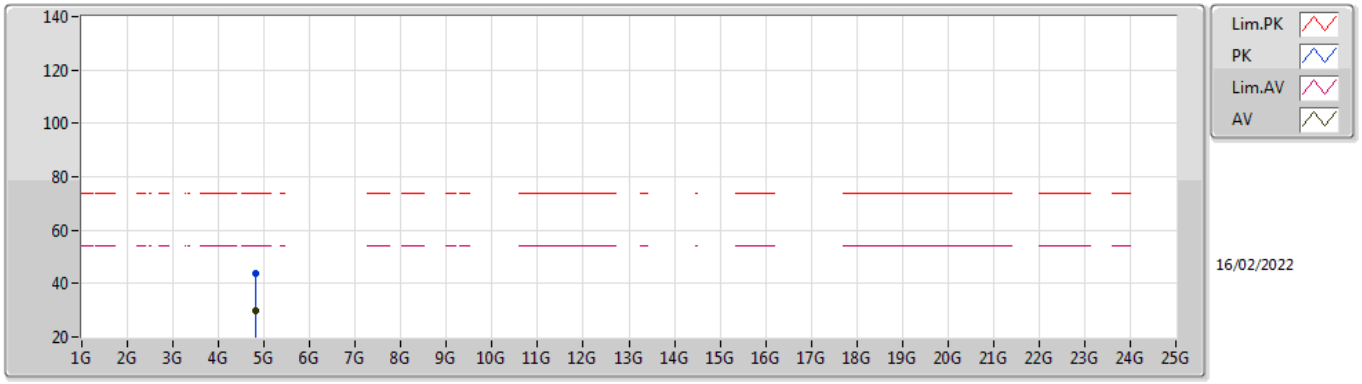


EUT Z_2TX
Setting 18
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82726G	43.54	74.00	-30.46	37.85	3	Vertical	137	1.55	-	32.81	5.10	32.22
AV	4.82524G	29.65	54.00	-24.35	23.97	3	Vertical	137	1.55	-	32.80	5.10	32.22

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

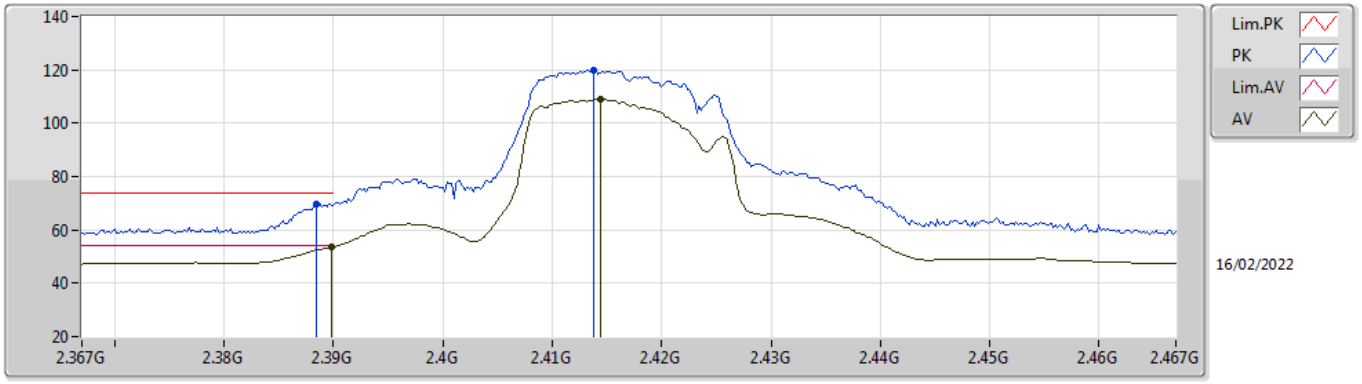


EUT Z_2TX
Setting 18
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8254G	43.98	74.00	-30.02	38.30	3	Horizontal	216	1.76	-	32.80	5.10	32.22
AV	4.82202G	29.63	54.00	-24.37	23.96	3	Horizontal	216	1.76	-	32.79	5.10	32.22

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

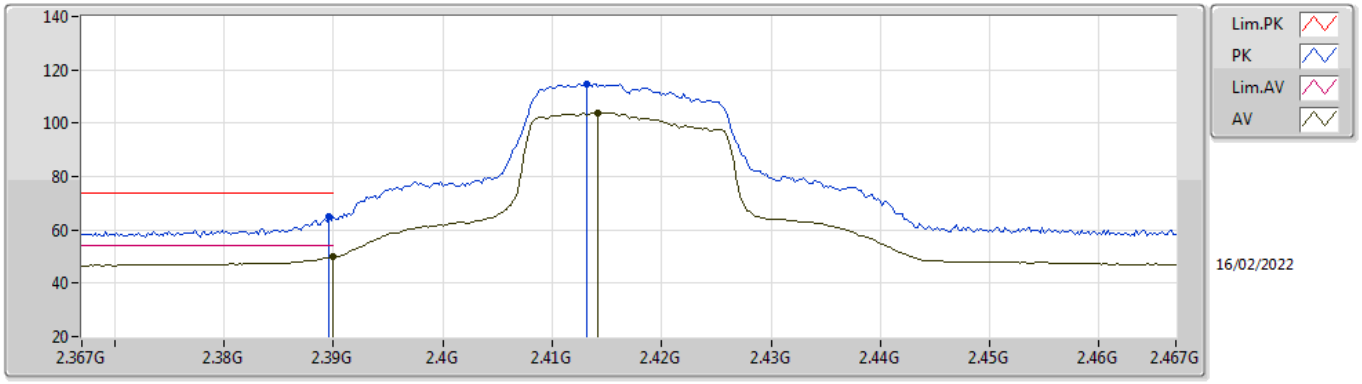


EUT Y_2TX
Setting 21.5
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3884G	69.88	74.00	-4.12	38.71	3	Vertical	296	1.69	-	28.38	2.79	-
AV	2.3898G	53.58	54.00	-0.42	22.41	3	Vertical	296	1.69	-	28.38	2.79	-
PK	2.4138G	119.82	Inf	-Inf	88.61	3	Vertical	296	1.69	-	28.40	2.81	-
AV	2.4144G	109.06	Inf	-Inf	77.85	3	Vertical	296	1.69	-	28.40	2.81	-

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

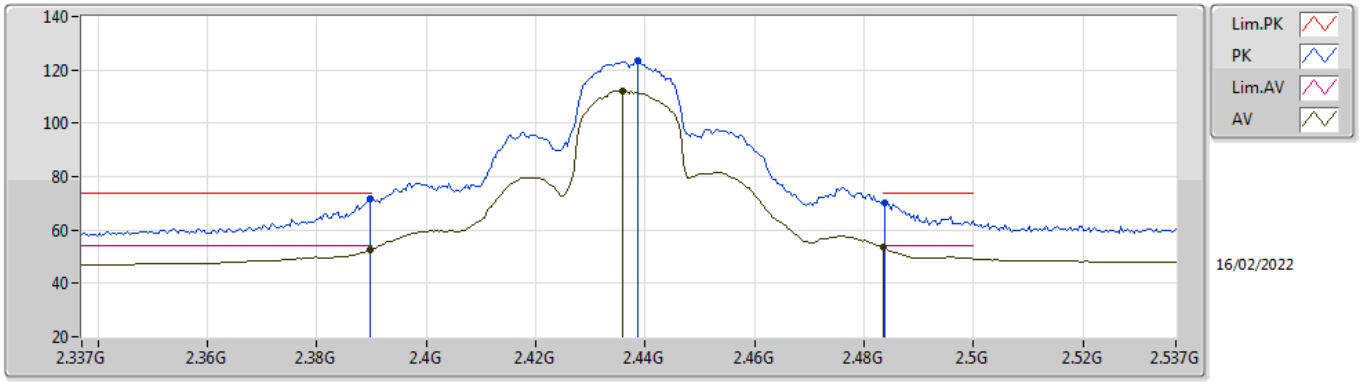


EUT Y_2TX
Setting 21.5
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3896G	65.20	74.00	-8.80	34.03	3	Horizontal	276	1.80	-	28.38	2.79	-
AV	2.39G	49.84	54.00	-4.16	18.67	3	Horizontal	276	1.80	-	28.38	2.79	-
PK	2.4132G	114.89	Inf	-Inf	83.68	3	Horizontal	276	1.80	-	28.40	2.81	-
AV	2.4142G	104.03	Inf	-Inf	72.82	3	Horizontal	276	1.80	-	28.40	2.81	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

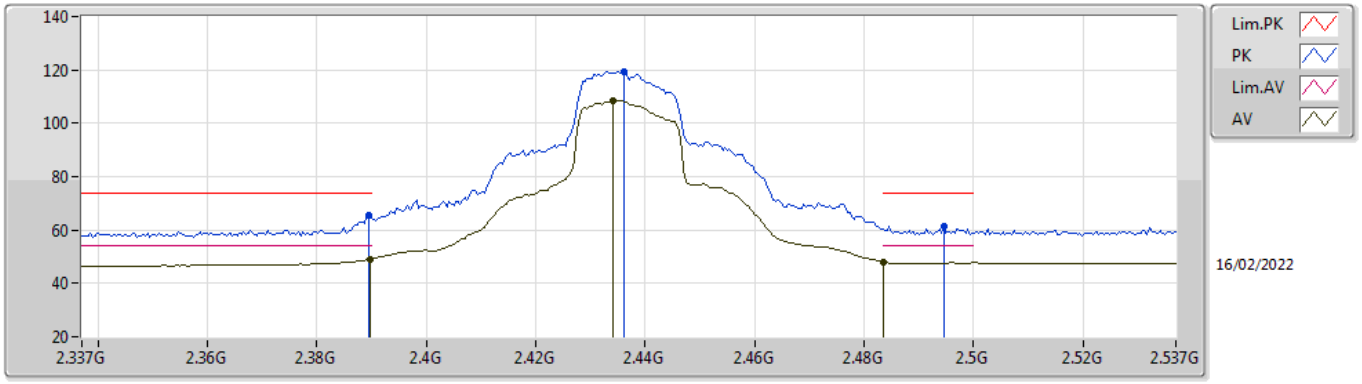


EUT Y_2TX
Setting 26
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	71.53	74.00	-2.47	40.36	3	Vertical	24	1.28	-	28.38	2.79	-
AV	2.3898G	52.39	54.00	-1.61	21.22	3	Vertical	24	1.28	-	28.38	2.79	-
PK	2.4386G	123.48	Inf	-Inf	92.24	3	Vertical	24	1.28	-	28.40	2.84	-
AV	2.4358G	112.24	Inf	-Inf	81.00	3	Vertical	24	1.28	-	28.40	2.84	-
PK	2.4838G	70.14	74.00	-3.86	38.72	3	Vertical	24	1.28	-	28.54	2.88	-
AV	2.4835G	53.56	54.00	-0.44	22.15	3	Vertical	24	1.28	-	28.53	2.88	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

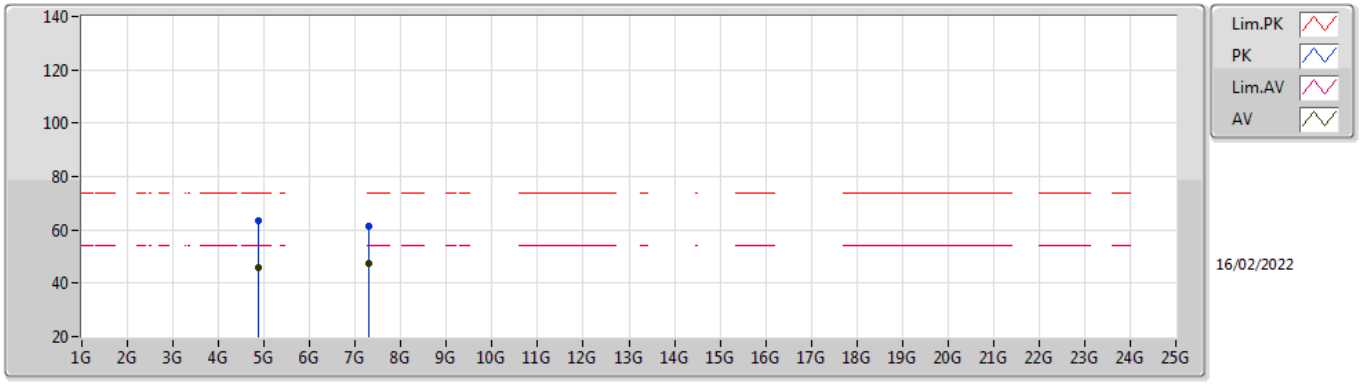


EUT Y_2TX
Setting 26
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3894G	65.67	74.00	-8.33	34.50	3	Horizontal	276	1.56	-	28.38	2.79	-
AV	2.3898G	48.95	54.00	-5.05	17.78	3	Horizontal	276	1.56	-	28.38	2.79	-
PK	2.4362G	119.46	Inf	-Inf	88.22	3	Horizontal	276	1.56	-	28.40	2.84	-
AV	2.4342G	108.56	Inf	-Inf	77.33	3	Horizontal	276	1.56	-	28.40	2.83	-
PK	2.4946G	61.56	74.00	-12.44	30.09	3	Horizontal	276	1.56	-	28.58	2.89	-
AV	2.4835G	48.00	54.00	-6.00	16.59	3	Horizontal	276	1.56	-	28.53	2.88	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

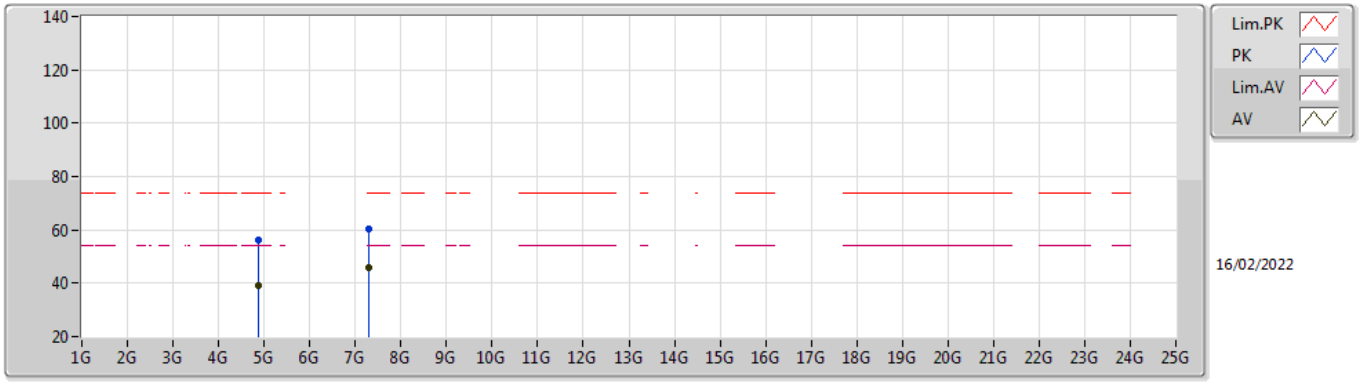


EUT Z_2TX
Setting 26
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8661G	63.27	74.00	-10.73	57.45	3	Vertical	16	1.02	-	32.93	5.10	32.21
AV	4.8689G	45.92	54.00	-8.08	40.09	3	Vertical	16	1.02	-	32.94	5.10	32.21
PK	7.3056G	61.58	74.00	-12.42	51.83	3	Vertical	21	1.94	-	36.41	6.15	32.81
AV	7.2993G	47.55	54.00	-6.45	37.80	3	Vertical	21	1.94	-	36.40	6.15	32.80

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

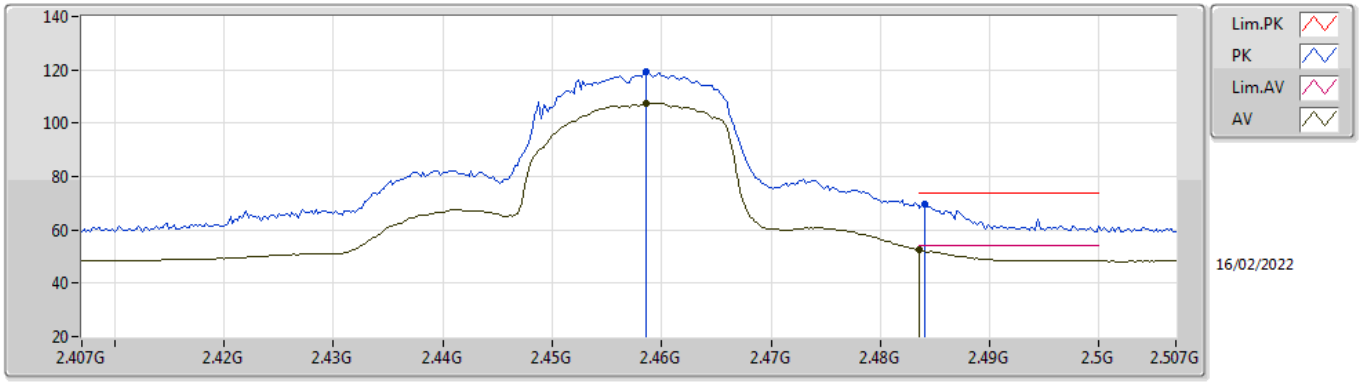


EUT Z_2TX
Setting 26
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8676G	56.19	74.00	-17.81	50.36	3	Horizontal	16	2.38	-	32.94	5.10	32.21
AV	4.8691G	38.93	54.00	-15.07	33.10	3	Horizontal	16	2.38	-	32.94	5.10	32.21
PK	7.3011G	60.42	74.00	-13.58	50.67	3	Horizontal	255	1.80	-	36.40	6.15	32.80
AV	7.301G	45.94	54.00	-8.06	36.19	3	Horizontal	255	1.80	-	36.40	6.15	32.80

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

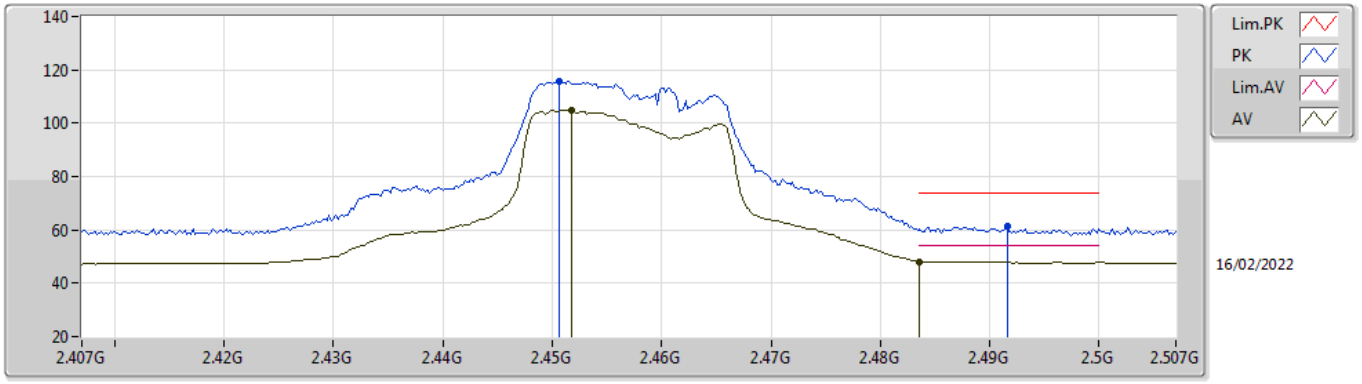


EUT Y_2TX
Setting 21
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4586G	119.32	Inf	-Inf	88.03	3	Vertical	19	1.16	-	28.43	2.86	-
AV	2.4586G	107.59	Inf	-Inf	76.30	3	Vertical	19	1.16	-	28.43	2.86	-
PK	2.484G	69.79	74.00	-4.21	38.37	3	Vertical	19	1.16	-	28.54	2.88	-
AV	2.4835G	52.41	54.00	-1.59	21.00	3	Vertical	19	1.16	-	28.53	2.88	-

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

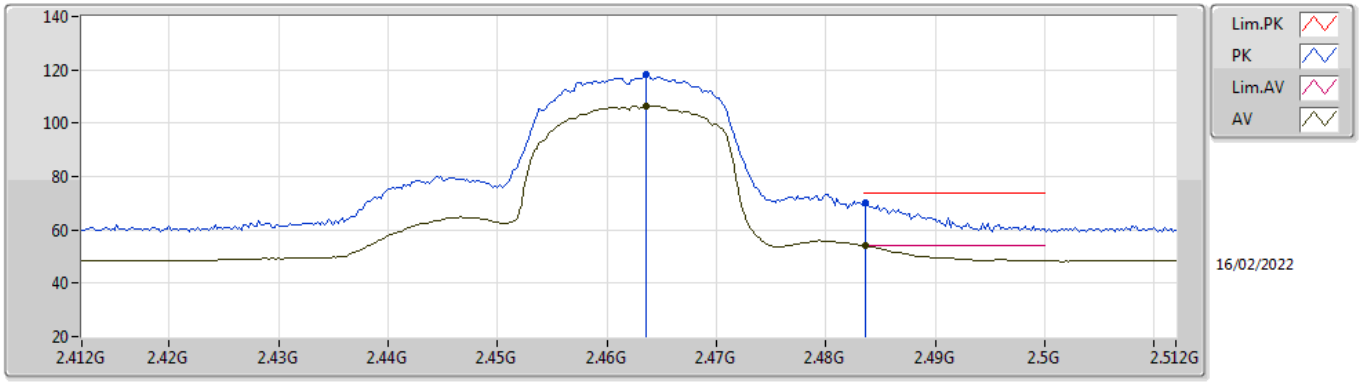


EUT Y_2TX
Setting 21
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4506G	115.72	Inf	-Inf	84.47	3	Horizontal	294	2.01	-	28.40	2.85	-
AV	2.4518G	104.68	Inf	-Inf	73.42	3	Horizontal	294	2.01	-	28.41	2.85	-
PK	2.4916G	61.17	74.00	-12.83	29.71	3	Horizontal	294	2.01	-	28.57	2.89	-
AV	2.4836G	48.15	54.00	-5.85	16.74	3	Horizontal	294	2.01	-	28.53	2.88	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

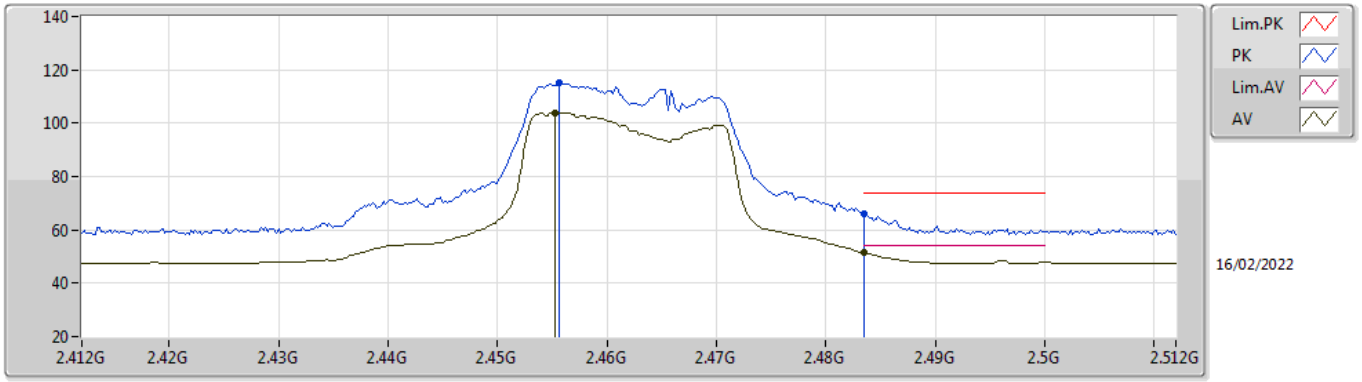


EUT Y_2TX
Setting 20
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4636G	118.29	Inf	-Inf	86.98	3	Vertical	19	1.27	-	28.45	2.86	-
AV	2.4636G	106.38	Inf	-Inf	75.07	3	Vertical	19	1.27	-	28.45	2.86	-
PK	2.4836G	70.23	74.00	-3.77	38.82	3	Vertical	19	1.27	-	28.53	2.88	-
AV	2.4836G	53.97	54.00	-0.03	22.56	3	Vertical	19	1.27	-	28.53	2.88	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

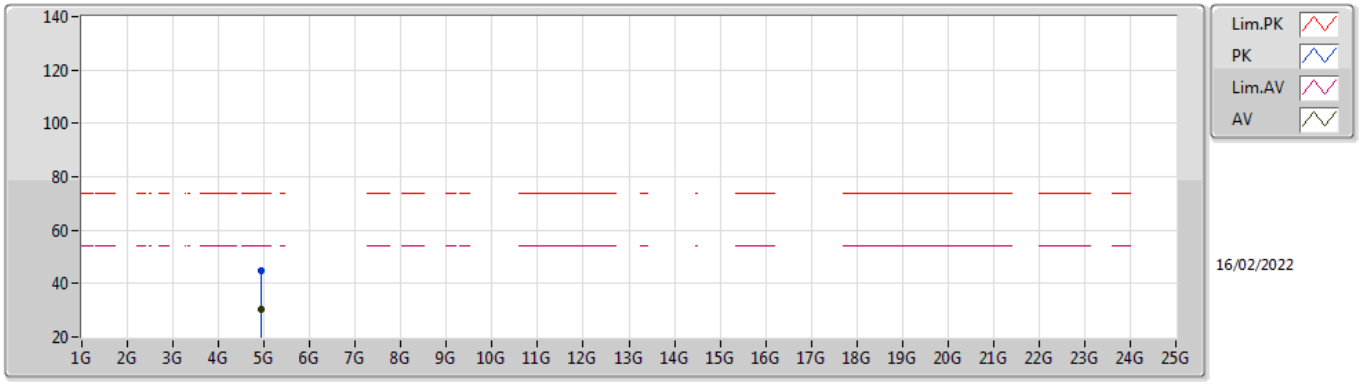


EUT Y_2TX
Setting 20
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4556G	114.97	Inf	-Inf	83.69	3	Horizontal	299	2.01	-	28.42	2.86	-
AV	2.4552G	103.84	Inf	-Inf	72.56	3	Horizontal	299	2.01	-	28.42	2.86	-
PK	2.4835G	66.10	74.00	-7.90	34.69	3	Horizontal	299	2.01	-	28.53	2.88	-
AV	2.4835G	51.40	54.00	-2.60	19.99	3	Horizontal	299	2.01	-	28.53	2.88	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

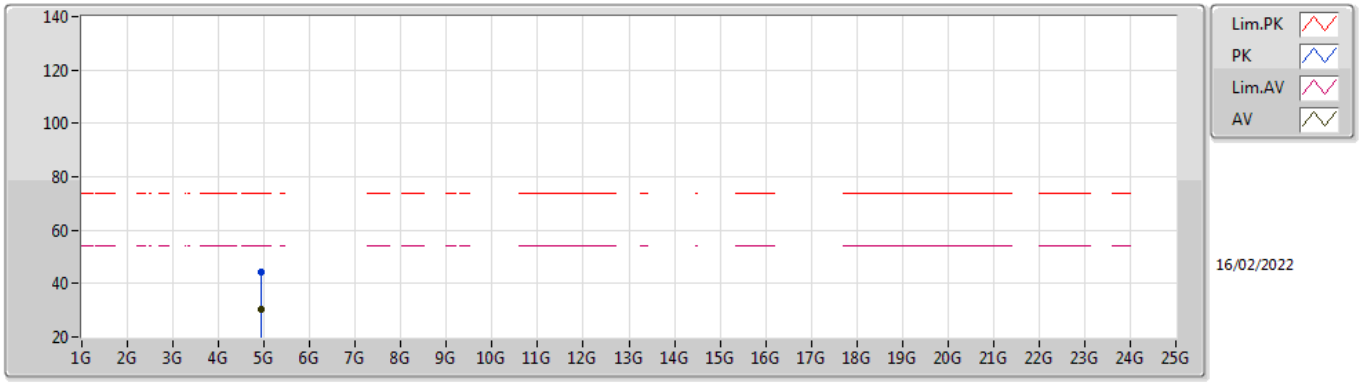


EUT Z_2TX
Setting 20
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92224G	44.71	74.00	-29.29	38.67	3	Vertical	186	1.43	-	33.13	5.10	32.19
AV	4.92402G	30.50	54.00	-23.50	24.45	3	Vertical	186	1.43	-	33.14	5.10	32.19

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

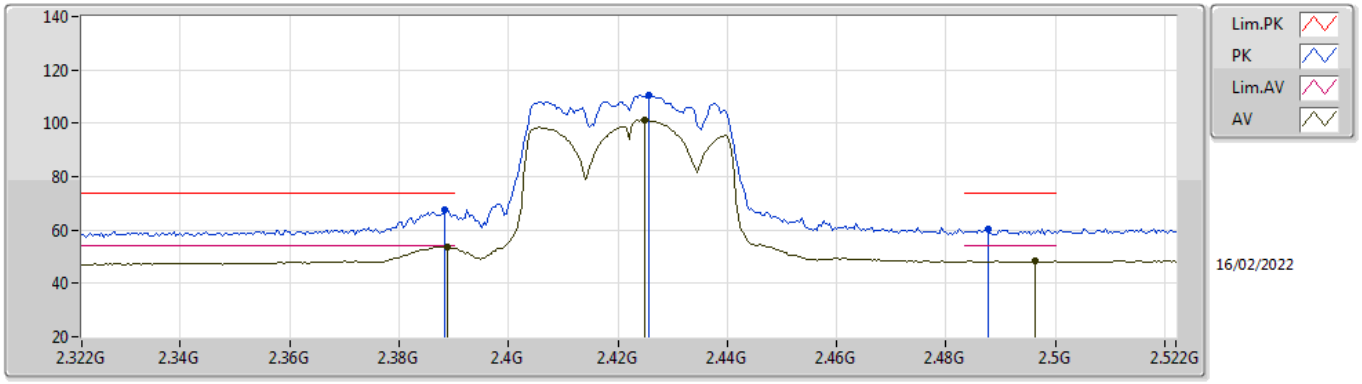


EUT Z_2TX
Setting 20
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92616G	44.12	74.00	-29.88	38.05	3	Horizontal	272	2.67	-	33.16	5.10	32.19
AV	4.92398G	30.44	54.00	-23.56	24.39	3	Horizontal	272	2.67	-	33.14	5.10	32.19

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

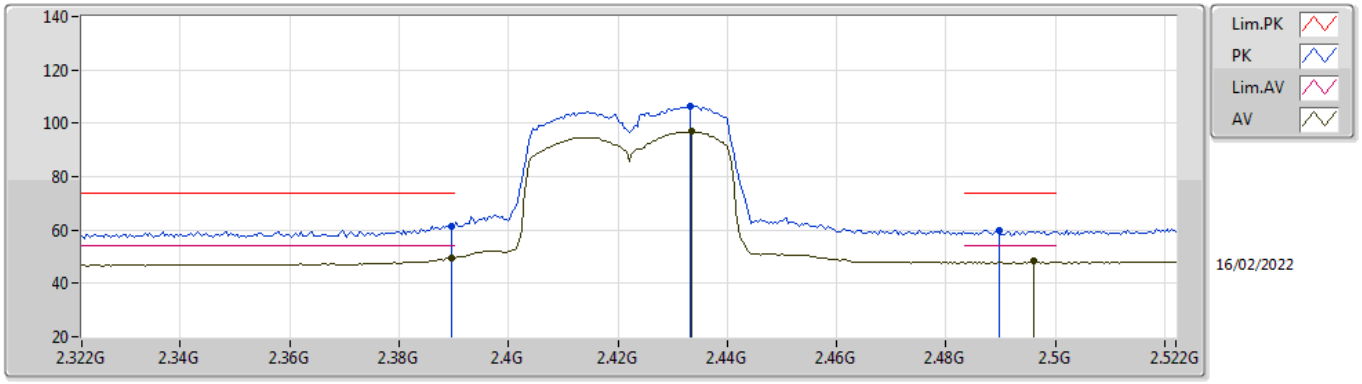


EUT Y_2TX
Setting 15.5
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3884G	67.54	74.00	-6.46	36.37	3	Vertical	15	1.05	-	28.38	2.79	-
AV	2.3888G	53.64	54.00	-0.36	22.47	3	Vertical	15	1.05	-	28.38	2.79	-
PK	2.4256G	110.52	Inf	-Inf	79.29	3	Vertical	15	1.05	-	28.40	2.83	-
AV	2.4248G	101.16	Inf	-Inf	69.94	3	Vertical	15	1.05	-	28.40	2.82	-
PK	2.4876G	60.26	74.00	-13.74	28.82	3	Vertical	15	1.05	-	28.55	2.89	-
AV	2.4964G	48.47	54.00	-5.53	16.98	3	Vertical	15	1.05	-	28.59	2.90	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

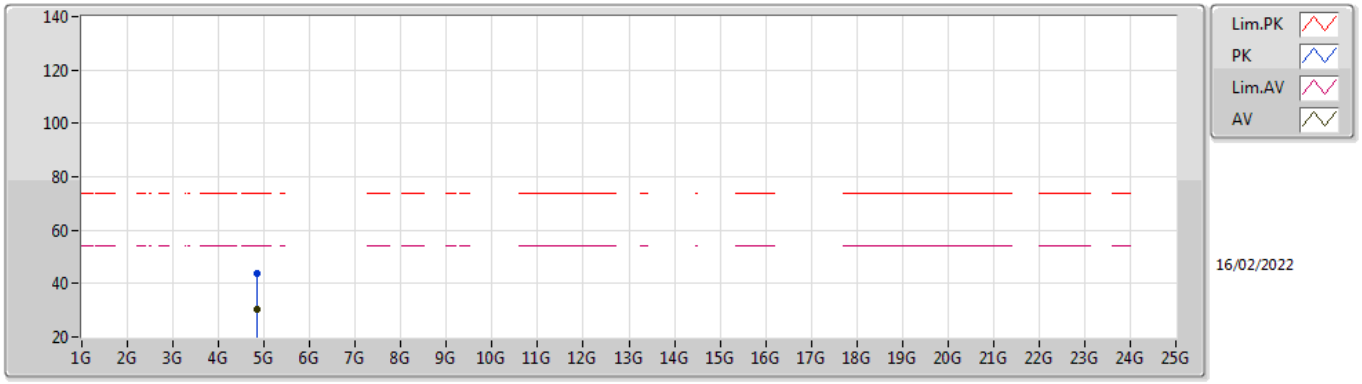


EUT Y_2TX
Setting 15.5
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3896G	61.59	74.00	-12.41	30.42	3	Horizontal	289	2.64	-	28.38	2.79	-
AV	2.3896G	49.46	54.00	-4.54	18.29	3	Horizontal	289	2.64	-	28.38	2.79	-
PK	2.4332G	106.46	Inf	-Inf	75.23	3	Horizontal	289	2.64	-	28.40	2.83	-
AV	2.4336G	96.92	Inf	-Inf	65.69	3	Horizontal	289	2.64	-	28.40	2.83	-
PK	2.4896G	59.65	74.00	-14.35	28.20	3	Horizontal	289	2.64	-	28.56	2.89	-
AV	2.496G	48.23	54.00	-5.77	16.75	3	Horizontal	289	2.64	-	28.58	2.90	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

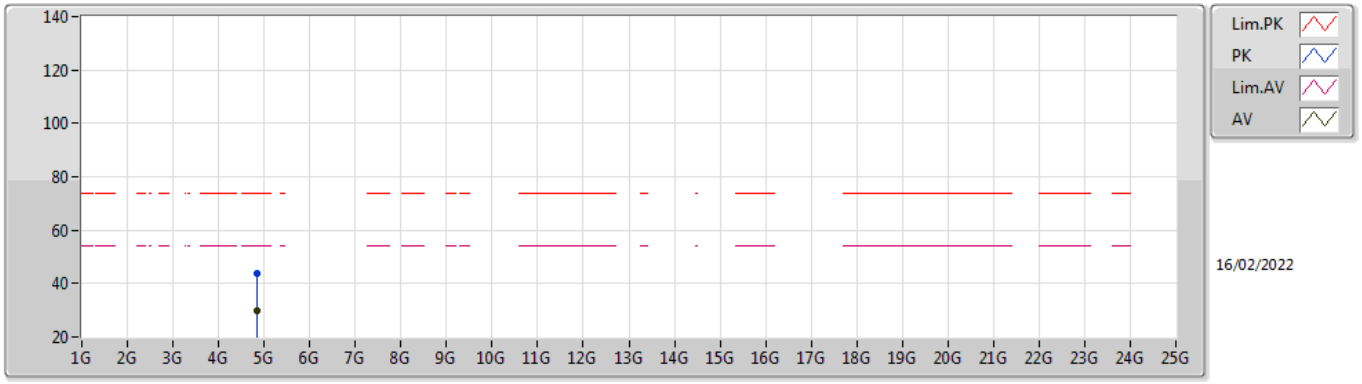


EUT Z_2TX
Setting 15.5
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8412G	43.54	74.00	-30.46	37.80	3	Vertical	254	1.17	-	32.86	5.10	32.22
AV	4.84874G	30.20	54.00	-23.80	24.42	3	Vertical	254	1.17	-	32.89	5.10	32.21

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

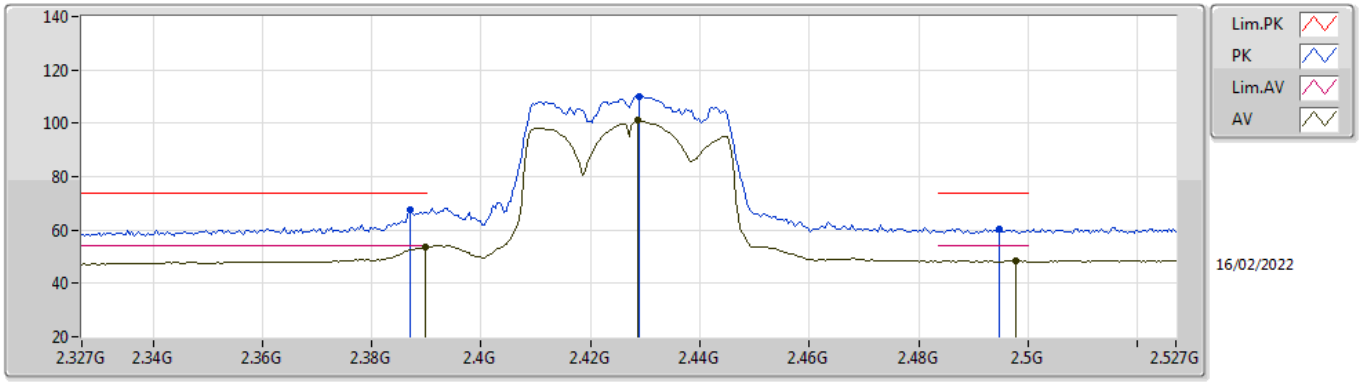


EUT Z_2TX
Setting 15.5
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.83974G	43.54	74.00	-30.46	37.80	3	Horizontal	290	2.28	-	32.86	5.10	32.22
AV	4.84336G	30.08	54.00	-23.92	24.33	3	Horizontal	290	2.28	-	32.87	5.10	32.22

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

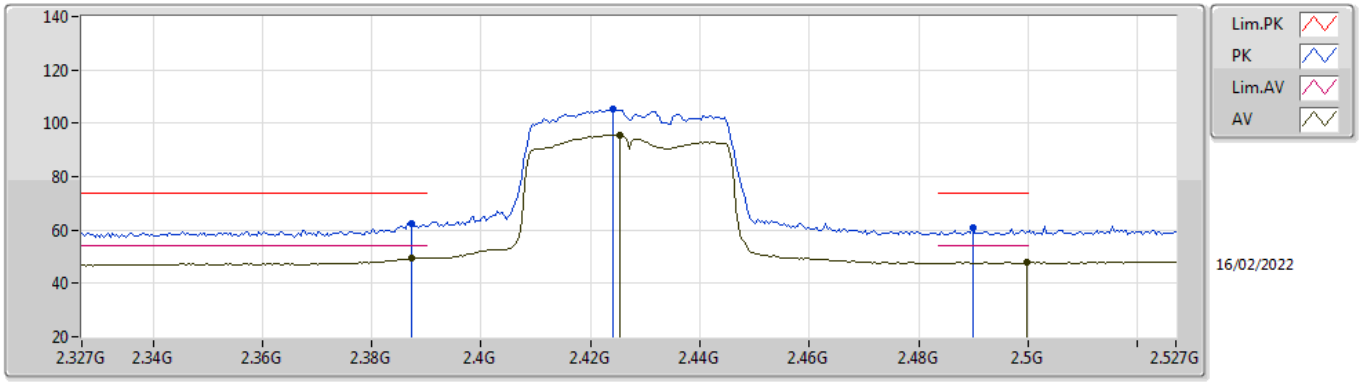


EUT Y_2TX
Setting 15.5
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.387G	67.37	74.00	-6.63	36.21	3	Vertical	14	1.47	-	28.37	2.79	-
AV	2.3898G	53.65	54.00	-0.35	22.48	3	Vertical	14	1.47	-	28.38	2.79	-
PK	2.429G	110.08	Inf	-Inf	78.85	3	Vertical	14	1.47	-	28.40	2.83	-
AV	2.4286G	101.02	Inf	-Inf	69.79	3	Vertical	14	1.47	-	28.40	2.83	-
PK	2.4946G	60.42	74.00	-13.58	28.95	3	Vertical	14	1.47	-	28.58	2.89	-
AV	2.4978G	48.51	54.00	-5.49	17.02	3	Vertical	14	1.47	-	28.59	2.90	-

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

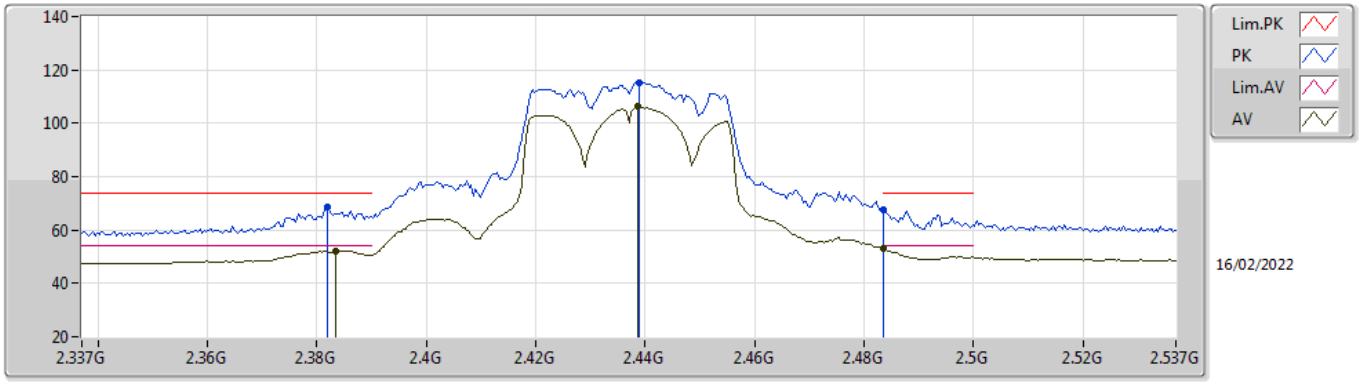


EUT Y_2TX
Setting 15.5
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3874G	62.25	74.00	-11.75	31.09	3	Horizontal	277	1.68	-	28.37	2.79	-
AV	2.3874G	49.63	54.00	-4.37	18.47	3	Horizontal	277	1.68	-	28.37	2.79	-
PK	2.4242G	105.33	Inf	-Inf	74.11	3	Horizontal	277	1.68	-	28.40	2.82	-
AV	2.4254G	95.74	Inf	-Inf	64.51	3	Horizontal	277	1.68	-	28.40	2.83	-
PK	2.4898G	60.93	74.00	-13.07	29.48	3	Horizontal	277	1.68	-	28.56	2.89	-
AV	2.4998G	47.93	54.00	-6.07	16.43	3	Horizontal	277	1.68	-	28.60	2.90	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

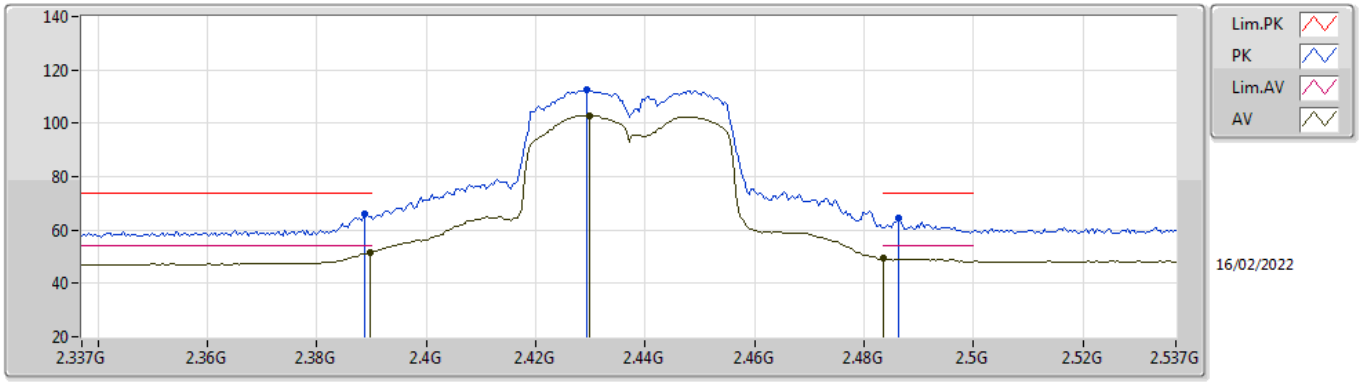


EUT Y_2TX
Setting 21
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3818G	68.79	74.00	-5.21	37.64	3	Vertical	19	1.04	-	28.36	2.79	-
AV	2.3834G	52.15	54.00	-1.85	20.99	3	Vertical	19	1.04	-	28.37	2.79	-
PK	2.439G	115.26	Inf	-Inf	84.02	3	Vertical	19	1.04	-	28.40	2.84	-
AV	2.4386G	106.17	Inf	-Inf	74.93	3	Vertical	19	1.04	-	28.40	2.84	-
PK	2.4835G	67.45	74.00	-6.55	36.04	3	Vertical	19	1.04	-	28.53	2.88	-
AV	2.4835G	52.90	54.00	-1.10	21.49	3	Vertical	19	1.04	-	28.53	2.88	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

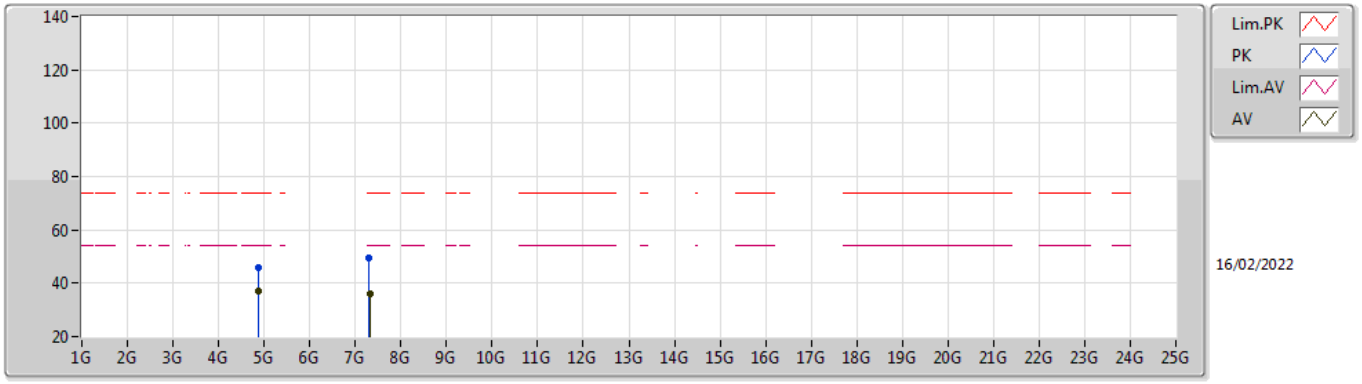


EUT Y_2TX
Setting 21
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3886G	66.24	74.00	-7.76	35.07	3	Horizontal	291	2.64	-	28.38	2.79	-
AV	2.3898G	51.36	54.00	-2.64	20.19	3	Horizontal	291	2.64	-	28.38	2.79	-
PK	2.4294G	112.35	Inf	-Inf	81.12	3	Horizontal	291	2.64	-	28.40	2.83	-
AV	2.4298G	103.01	Inf	-Inf	71.78	3	Horizontal	291	2.64	-	28.40	2.83	-
PK	2.4862G	64.53	74.00	-9.47	33.10	3	Horizontal	291	2.64	-	28.54	2.89	-
AV	2.4835G	49.24	54.00	-4.76	17.83	3	Horizontal	291	2.64	-	28.53	2.88	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

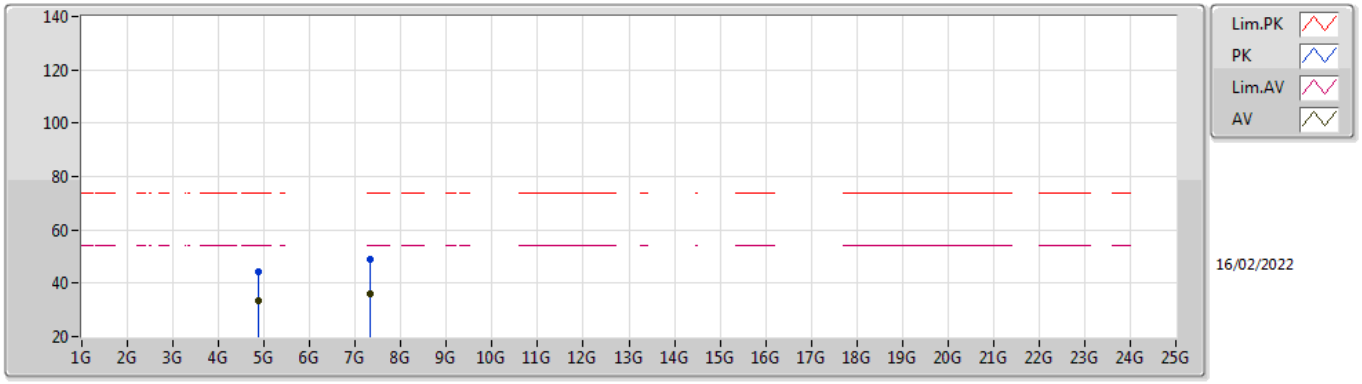


EUT Z_2TX
Setting 21
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8741G	45.83	74.00	-28.17	39.99	3	Vertical	16	2.95	-	32.95	5.10	32.21
AV	4.874G	37.24	54.00	-16.76	31.40	3	Vertical	16	2.95	-	32.95	5.10	32.21
PK	7.30726G	49.64	74.00	-24.36	39.89	3	Vertical	18	2.45	-	36.41	6.15	32.81
AV	7.3138G	36.04	54.00	-17.96	26.28	3	Vertical	18	2.45	-	36.43	6.16	32.83

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

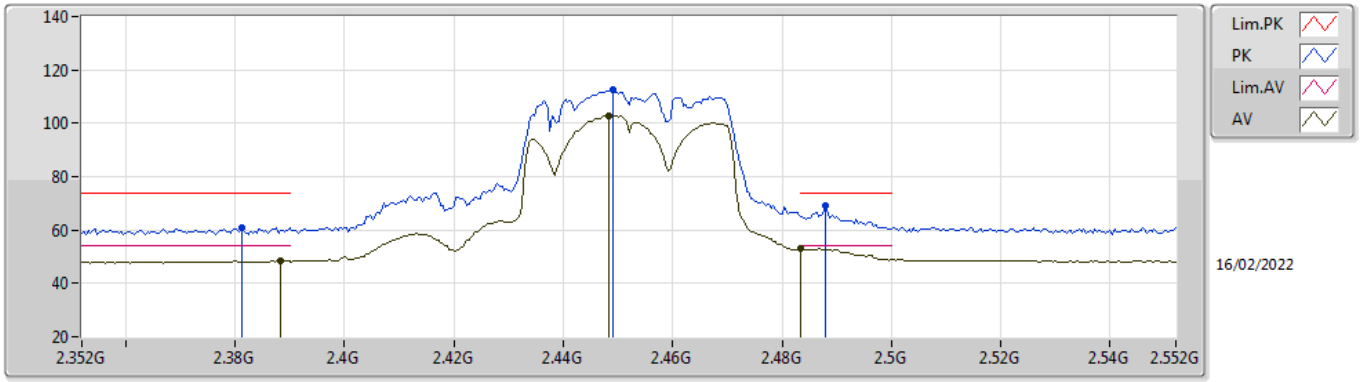


EUT Z_2TX
Setting 21
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8661G	44.35	74.00	-29.65	38.53	3	Horizontal	23	2.93	-	32.93	5.10	32.21
AV	4.874G	33.59	54.00	-20.41	27.75	3	Horizontal	23	2.93	-	32.95	5.10	32.21
PK	7.31226G	48.85	74.00	-25.15	39.09	3	Horizontal	234	2.83	-	36.42	6.16	32.82
AV	7.31116G	35.94	54.00	-18.06	26.18	3	Horizontal	234	2.83	-	36.42	6.16	32.82

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

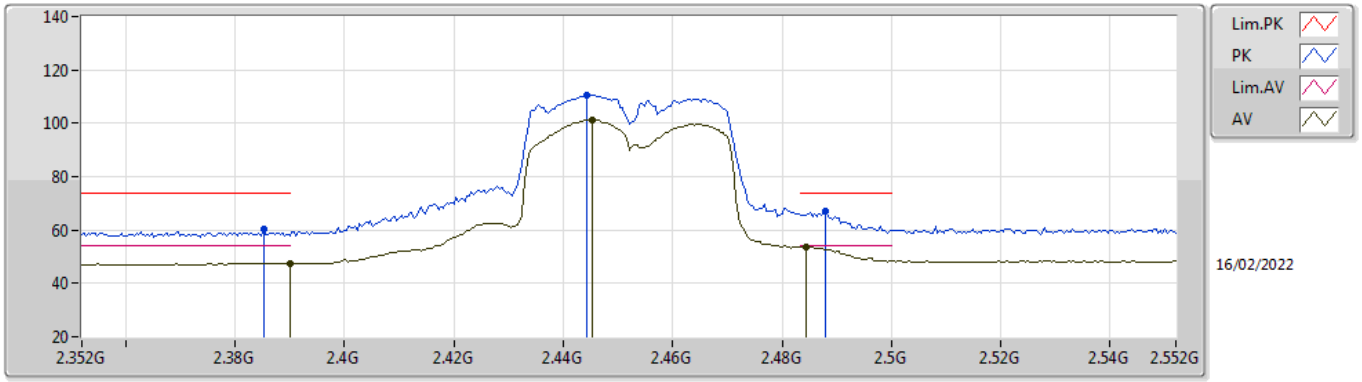


EUT Y_2TX
Setting 19
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3812G	60.94	74.00	-13.06	29.79	3	Vertical	299	1.83	-	28.36	2.79	-
AV	2.3884G	48.33	54.00	-5.67	17.16	3	Vertical	299	1.83	-	28.38	2.79	-
PK	2.4492G	112.47	Inf	-Inf	81.22	3	Vertical	299	1.83	-	28.40	2.85	-
AV	2.4484G	102.59	Inf	-Inf	71.34	3	Vertical	299	1.83	-	28.40	2.85	-
PK	2.488G	69.15	74.00	-4.85	37.71	3	Vertical	299	1.83	-	28.55	2.89	-
AV	2.4835G	52.99	54.00	-1.01	21.58	3	Vertical	299	1.83	-	28.53	2.88	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

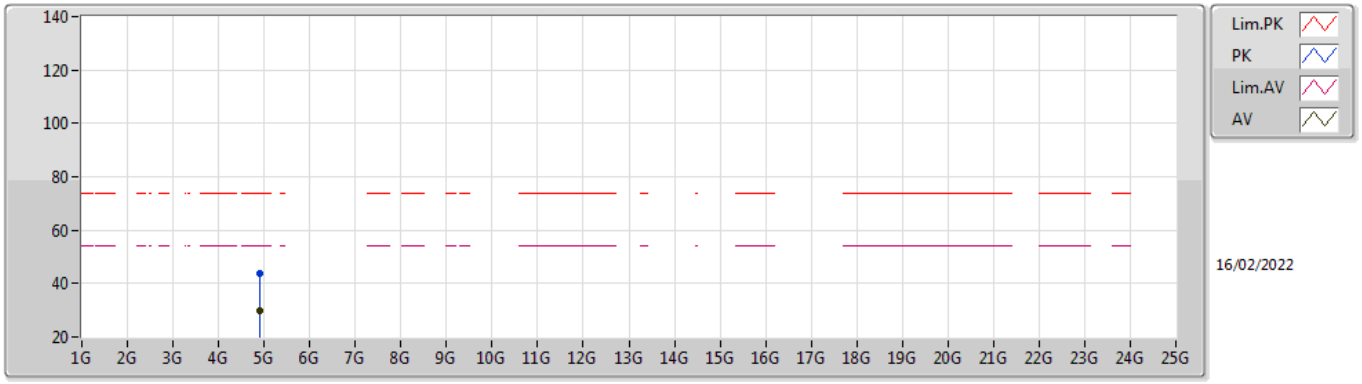


EUT Y_2TX
Setting 19
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3852G	60.45	74.00	-13.55	29.29	3	Horizontal	293	2.63	-	28.37	2.79	-
AV	2.39G	47.49	54.00	-6.51	16.32	3	Horizontal	293	2.63	-	28.38	2.79	-
PK	2.4444G	110.55	Inf	-Inf	79.31	3	Horizontal	293	2.63	-	28.40	2.84	-
AV	2.4452G	101.31	Inf	-Inf	70.06	3	Horizontal	293	2.63	-	28.40	2.85	-
PK	2.488G	67.23	74.00	-6.77	35.79	3	Horizontal	293	2.63	-	28.55	2.89	-
AV	2.4844G	53.77	54.00	-0.23	22.35	3	Horizontal	293	2.63	-	28.54	2.88	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

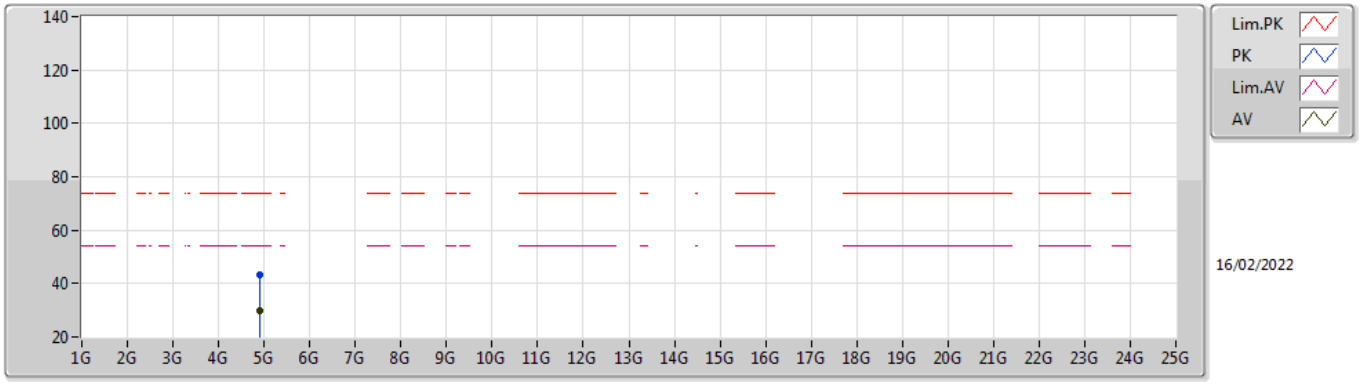


EUT Z_2TX
Setting 19
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9064G	43.71	74.00	-30.29	37.76	3	Vertical	50	2.93	-	33.04	5.10	32.19
AV	4.90442G	29.93	54.00	-24.07	23.99	3	Vertical	50	2.93	-	33.03	5.10	32.19

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX



EUT Z_2TX
Setting 19
02-B-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.90336G	43.46	74.00	-30.54	37.53	3	Horizontal	339	1.63	-	33.02	5.10	32.19
AV	4.90256G	29.78	54.00	-24.22	23.86	3	Horizontal	339	1.63	-	33.02	5.10	32.20