RADIO TEST REPORT

FCC ID	:	UDX-60074010
Equipment	:	Network Camera
Brand Name	:	CISCO
Model Name	:	MV52-HW
Applicant	:	Cisco Systems, Inc. 170 West Tasman Drive, San Jose, CA 95134, USA
Manufacturer	:	Cisco Systems, Inc. 170 West Tasman Drive, San Jose, CA 95134, USA
Factory	:	LITE-ON Technology Corp. Networking Plant 5F, No. 101, Neihuan N. Rd., Nanzih Dist., Kaohsiung City 811, Taiwan, R.O.C.
Standard	:	47 CFR FCC Part 15.247

The product was received on Feb. 02, 2021, and testing was started from Mar. 20, 2021 and completed on Sep. 16, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Cliff Chang

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

Table of Contents

History of this test report **3**

Summary of Test Result **4**

1 General Description **5**

1.1 Information 5
1.2 Applicable Standards 8
1.3 Testing Location Information 8
1.4 Measurement Uncertainty 9

2 Test Configuration of EUT **10**

2.1 Test Channel Mode 10
2.2 The Worst Case Measurement Configuration 11
2.3 EUT Operation during Test 12
2.4 Accessories 12
2.5 Support Equipment 13
2.6 Test Setup Diagram 14

3 Transmitter Test Result **17**

3.1 AC Power-line Conducted Emissions 17
3.2 DTS Bandwidth 19
3.3 Maximum Conducted Output Power 20
3.4 Power Spectral Density 23
3.5 Emissions in Non-restricted Frequency Bands 25
3.6 Emissions in Restricted Frequency Bands 26

4 Test Equipment and Calibration Data **30**

Appendix A. Test Results of AC Power-line Conducted Emissions

Appendix B. Test Results of DTS Bandwidth

Appendix C. Test Results of Maximum Conducted Output Power

Appendix D. Test Results of Power Spectral Density

Appendix E. Test Results of Emissions in Non-restricted Frequency Bands

Appendix F. Test Results of Emissions in Restricted Frequency Bands

Appendix G. Test Photos

Photographs of EUT v01

History of this test report

Report No.	Version	Description	Issued Date
FR0D1716AA	01	Initial issue of report	Oct. 05, 2021

Summary of Test Result

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

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen
Report Producer: Sandy Chuang

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	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX

Note:
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- 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	Bluetooth					WLAN 2.4GHz	WLAN 5GHz	Bluetooth
1	2	2	2	Aristotle	RFA-25-10160	PIFA	I-PEX	2.50	3.50	2.50
2	1	1	1	Aristotle	RFA-25-10160	PIFA	I-PEX	3.69	3.90	3.69

Note : The above information was declared by manufacturer.

For 2.4GHz WLAN function

IEEE 802.11b/g/n mode (1TX/1RX):

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

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

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

For 5GHz WLAN function

IEEE 802.11a/n/ac mode (1TX/1RX):

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

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

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

For Bluetooth function (1TX/1RX):

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

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

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

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.971	0.13	8.195m	300
802.11g	0.879	0.56	1.361m	1k
802.11n HT20	0.862	0.64	1.273m	1k
802.11n HT40	0.763	1.17	633.75u	3k

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter(DC 12V) or PoE			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Test Software Version	QRCT (ver. 4.0.00156.0)			

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 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Caster Chang	21.1-21.7 / 62-65	Mar. 24, 2021~ Mar. 31, 2021
Radiated (Below 1GHz)	03CH05-CB	Eason Chen	25.8-28.2 / 56-59	Aug. 25, 2021~ Sep. 16, 2021
Radiated (Above 1GHz)	03CH01-CB	Ron Huang	20.3-21.4 / 56-58	Mar. 20, 2021~ Mar. 24, 2021
AC Conduction	CO01-CB	Zack Kuo	22~23 / 60~62	Aug. 31, 2021

1.4 Measurement Uncertainty

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

For Other Tests:

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.9 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%
Power Density Measurement	2.8 dB	Confidence levels of 95%
Bandwidth Measurement	0.4%	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%

For AC Conduction and Radiated (Below 1GHz) test:

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	21
2437MHz	21
2462MHz	21
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	19
2437MHz	21
2457MHz	20
2462MHz	18
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	18.5
2437MHz	21
2457MHz	19.5
2462MHz	17.5
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	18
2437MHz	19
2452MHz	17.5

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT + 2.4GHz + Bluetooth + Adapter (DC 12V)
2	EUT + 5GHz + Bluetooth + Adapter (DC 12V)
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT + 5GHz + Bluetooth + PoE
Mode 2 generated the worst test result, so it was recorded in this report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	EUT in Z axis + 2.4GHz + Bluetooth + Adapter (DC 12V)
2	EUT in Y axis + 2.4GHz + Bluetooth + Adapter (DC 12V)
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Y axis + 5GHz + Bluetooth + Adapter (DC 12V)
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT in Y axis + 5GHz + Bluetooth + PoE
For operating mode 4 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at Y axis and Z axis position, and the worst case as below:	
1	EUT in Y axis

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

The Adapter and PoE information as below:

Support Unit	Brand	Model Number
Adapter	CISCO	MA-PWR-30W-US
PoE	PHIHONG	POEA33U-1ATE

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	LAN NB	DELL	E6430	N/A
B	AP Router	ASUS	RP-N53	MSQ-RPN53
C	Microphone	E-books	S71	N/A
D	2.4/5G NB	DELL	E6430	N/A
E	Adapter	CISCO	MA-PWR-30W-US	N/A
F	Smart phone	Samsung	Galaxy J2	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	PoE	PHIHONG	POEA33U-1ATE	N/A
B	NB	DELL	E4300	N/A
C	WLAN AP	ASUS	RT-AX88U	MSQ-RTAXHP00
D	NB	DELL	E4300	N/A
E	Microphone	E-books	S71	N/A
F	iPad mini	Apple	ME2791A/A	N/A

For Radiated (above 1GHz):

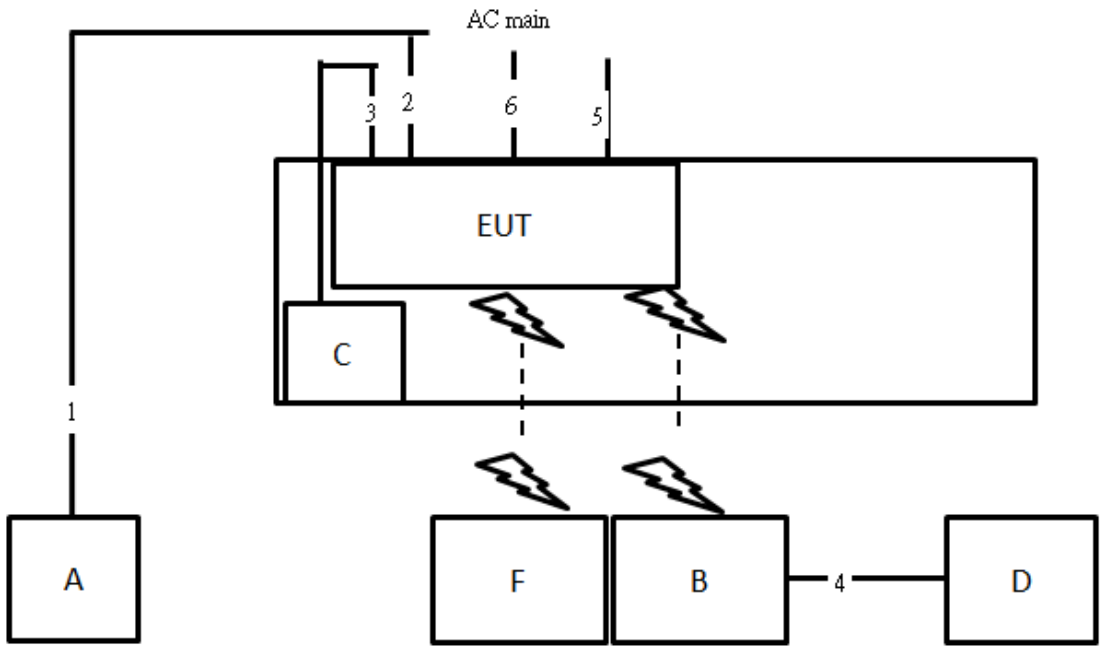
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	Fixture	CISCO	MV52-HW-Test	N/A
C	Adapter	CISCO	MA-PWR-30W-US	N/A

For RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	Fixture	CISCO	MV52-HW-Test	N/A
C	Adapter	CISCO	MA-PWR-30W-US	N/A

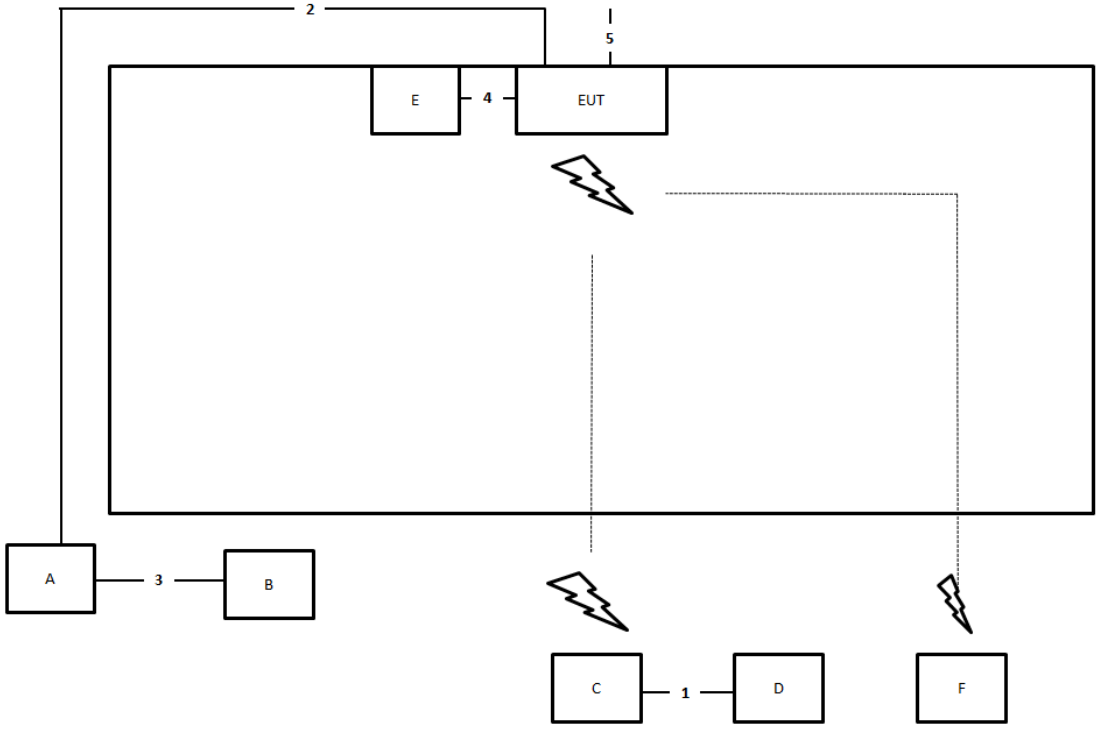
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



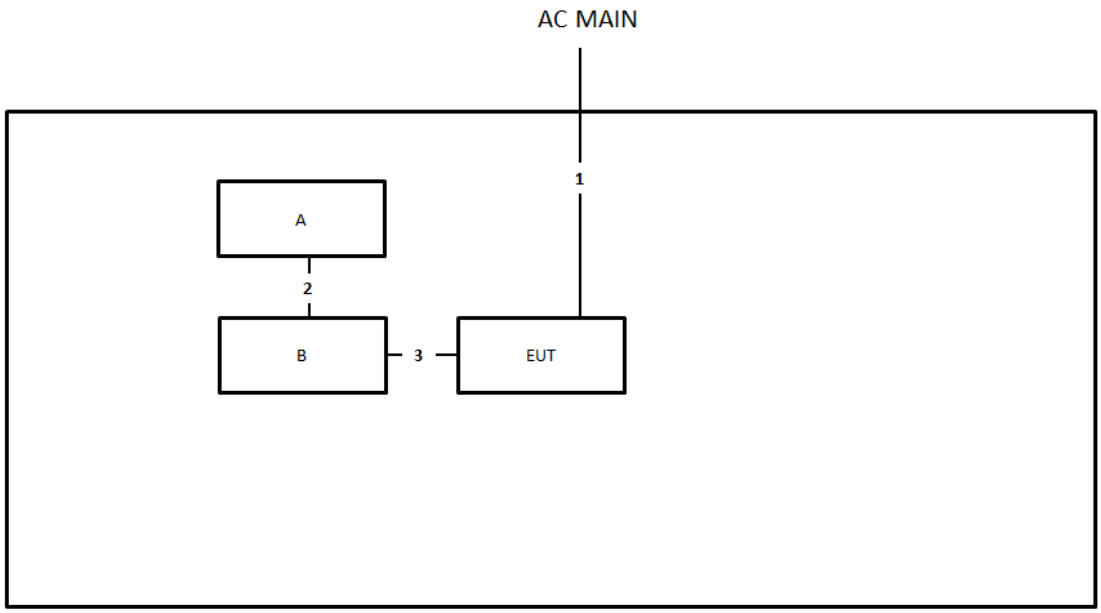
Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Audio cable	No	2m
4	RJ-45 cable	No	1.5m
5	Ground cable	No	1.5m
6	Power cable	No	1.5m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m
4	Audio Cable	No	2m
5	Ground cable	No	1.8m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	USB cable	Yes	1m
3	Console cable	No	0.1m

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

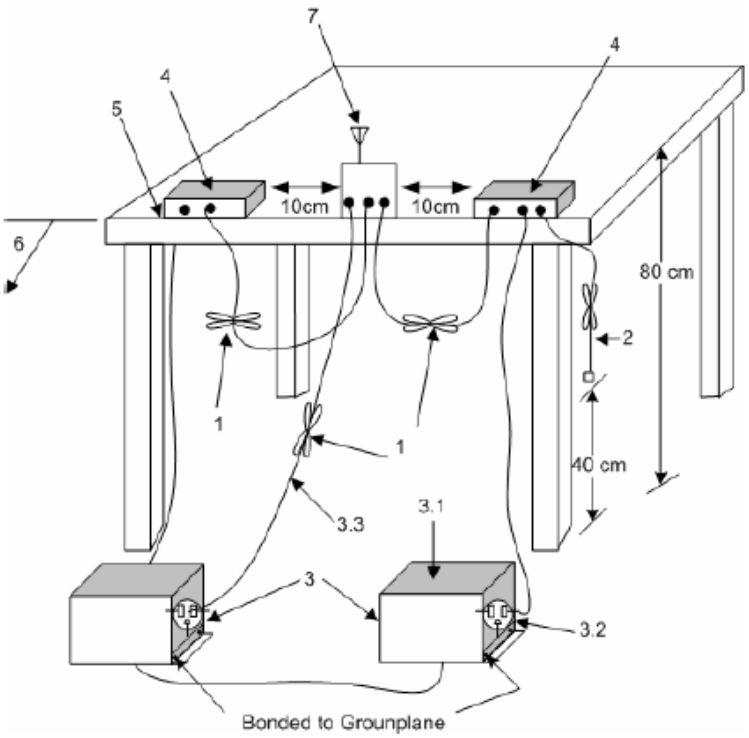
Refer a test equipment and calibration data table in this test report.

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.

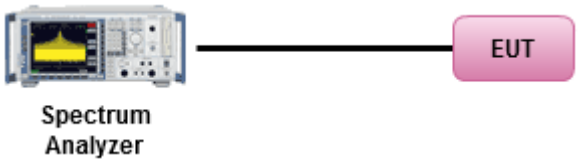
3.2.2 Measuring Instruments

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	
	▪ 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

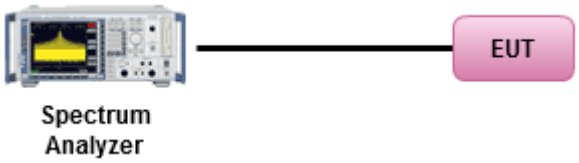
3.4.2 Measuring Instruments

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.	

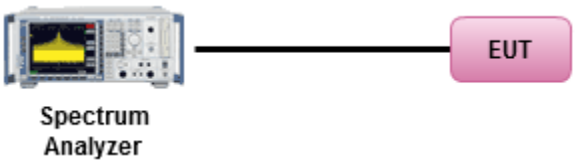
3.5.2 Measuring Instruments

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.

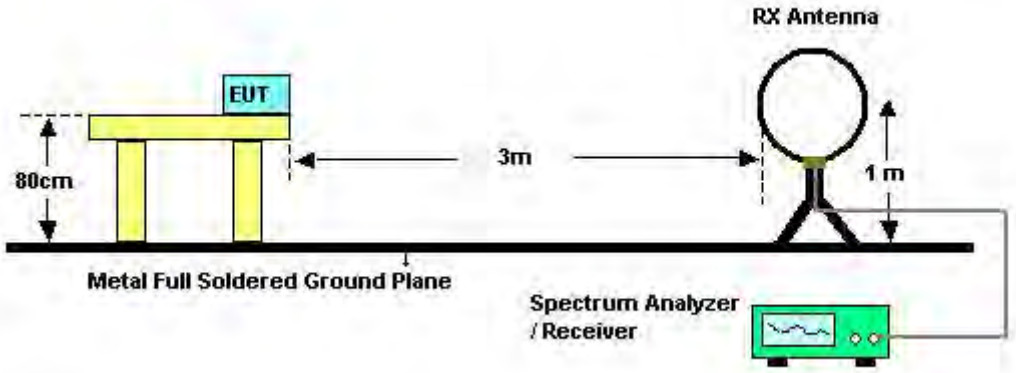
3.6.3 Test Procedures

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.

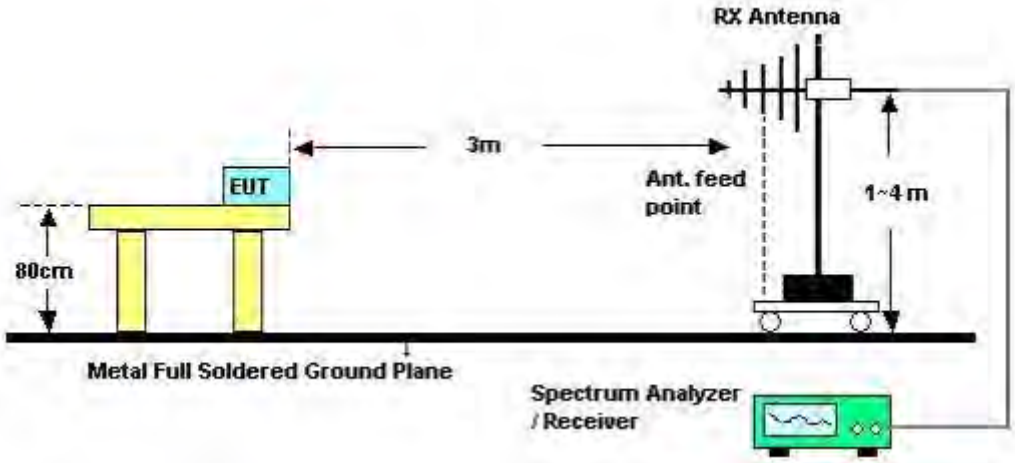
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

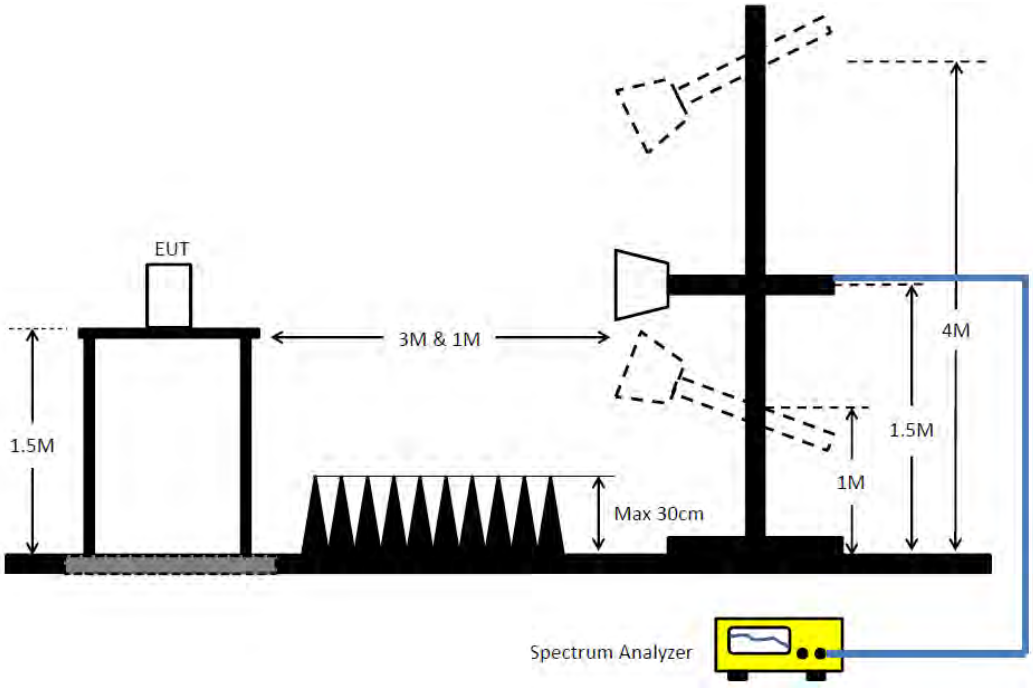
9kHz ~30MHz



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	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 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 (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 29, 2020	May 28, 2021	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2020	Nov. 05, 2021	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 07, 2021	Jan. 06, 2022	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Apr. 16, 2020	Apr. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 27, 2020	Jul. 26, 2021	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

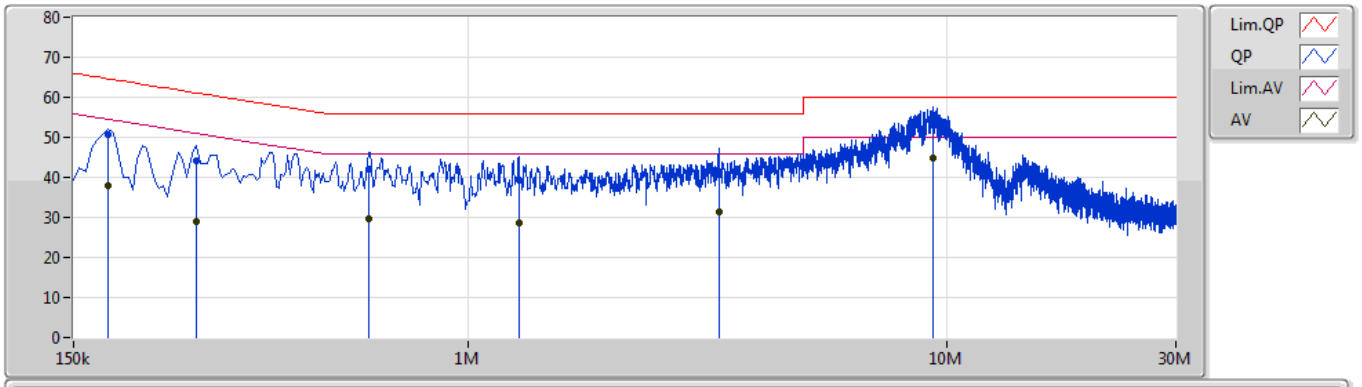
NCR means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	AV	9.353M	44.89	50.00	-5.11	Line

Mode 2

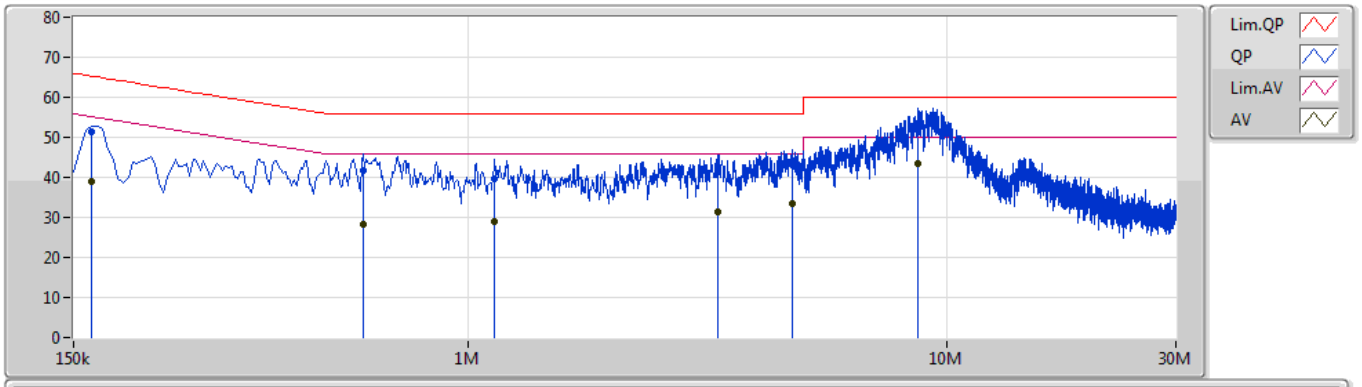
31/08/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	177k	50.61	64.62	-14.01	10.30	Line	-	40.31	0.07	0.07	10.16
AV	177k	37.97	54.62	-16.65	10.30	Line	-	27.67	0.07	0.07	10.16
QP	271.5k	43.98	61.07	-17.09	10.28	Line	-	33.70	0.07	0.07	10.14
AV	271.5k	29.09	51.07	-21.98	10.28	Line	-	18.81	0.07	0.07	10.14
QP	618k	41.91	56.00	-14.09	10.26	Line	-	31.65	0.08	0.07	10.11
AV	618k	29.67	46.00	-16.33	10.26	Line	-	19.41	0.08	0.07	10.11
QP	1.275M	39.21	56.00	-16.79	10.30	Line	-	28.91	0.10	0.09	10.11
AV	1.275M	28.79	46.00	-17.21	10.30	Line	-	18.49	0.10	0.09	10.11
QP	3.332M	40.86	56.00	-15.14	10.37	Line	-	30.49	0.13	0.13	10.11
AV	3.332M	31.38	46.00	-14.62	10.37	Line	-	21.01	0.13	0.13	10.11
QP	9.353M	54.36	60.00	-5.64	10.59	Line	-	43.77	0.26	0.21	10.12
AV	9.353M	44.89	50.00	-5.11	10.59	Line	"Worst"	34.30	0.26	0.21	10.12

Mode 2

31/08/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	163.5k	51.36	65.27	-13.91	10.28	Neutral	-	41.08	0.06	0.07	10.15
AV	163.5k	39.07	55.27	-16.20	10.28	Neutral	-	28.79	0.06	0.07	10.15
QP	604.5k	41.87	56.00	-14.13	10.25	Neutral	-	31.62	0.07	0.07	10.11
AV	604.5k	28.21	46.00	-17.79	10.25	Neutral	-	17.96	0.07	0.07	10.11
QP	1.136M	39.77	56.00	-16.23	10.27	Neutral	-	29.50	0.08	0.08	10.11
AV	1.136M	28.80	46.00	-17.20	10.27	Neutral	-	18.53	0.08	0.08	10.11
QP	3.309M	41.23	56.00	-14.77	10.35	Neutral	-	30.88	0.11	0.13	10.11
AV	3.309M	31.52	46.00	-14.48	10.35	Neutral	-	21.17	0.11	0.13	10.11
QP	4.749M	43.03	56.00	-12.97	10.40	Neutral	-	32.63	0.14	0.16	10.10
AV	4.749M	33.37	46.00	-12.63	10.40	Neutral	-	22.97	0.14	0.16	10.10
QP	8.66M	52.76	60.00	-7.24	10.53	Neutral	-	42.23	0.20	0.21	10.12
AV	8.66M	43.54	50.00	-6.46	10.53	Neutral	"Worst"	33.01	0.20	0.21	10.12

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	8.575M	13.168M	13M2G1D	8.5M	13.068M
802.11g_Nss1,(6Mbps)_1TX	16.325M	20.24M	20M2D1D	16.325M	16.917M
802.11n HT20_Nss1,(MCS0)_1TX	17.575M	21.614M	21M6D1D	17.275M	17.891M
802.11n HT40_Nss1,(MCS0)_1TX	35.4M	36.832M	36M8D1D	35.05M	36.432M

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

Result

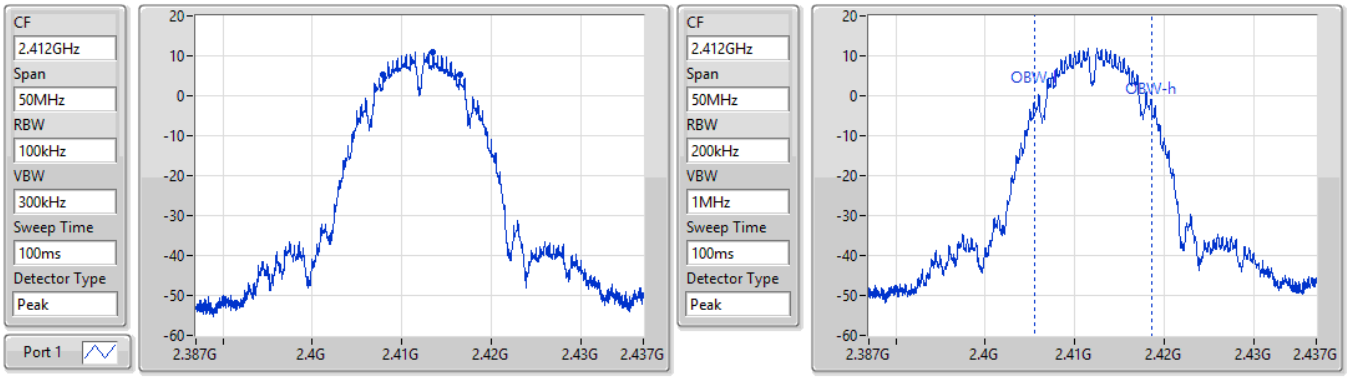
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	8.575M	13.143M
2437MHz	Pass	500k	8.525M	13.168M
2462MHz	Pass	500k	8.5M	13.068M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.325M	16.967M
2437MHz	Pass	500k	16.325M	20.24M
2462MHz	Pass	500k	16.325M	16.917M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.275M	17.941M
2437MHz	Pass	500k	17.575M	21.614M
2462MHz	Pass	500k	17.525M	17.891M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	35.4M	36.432M
2437MHz	Pass	500k	35.1M	36.832M
2452MHz	Pass	500k	35.05M	36.432M

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

802.11b_Nss1,(1Mbps)_1TX EBW

2412MHz

24/03/2021

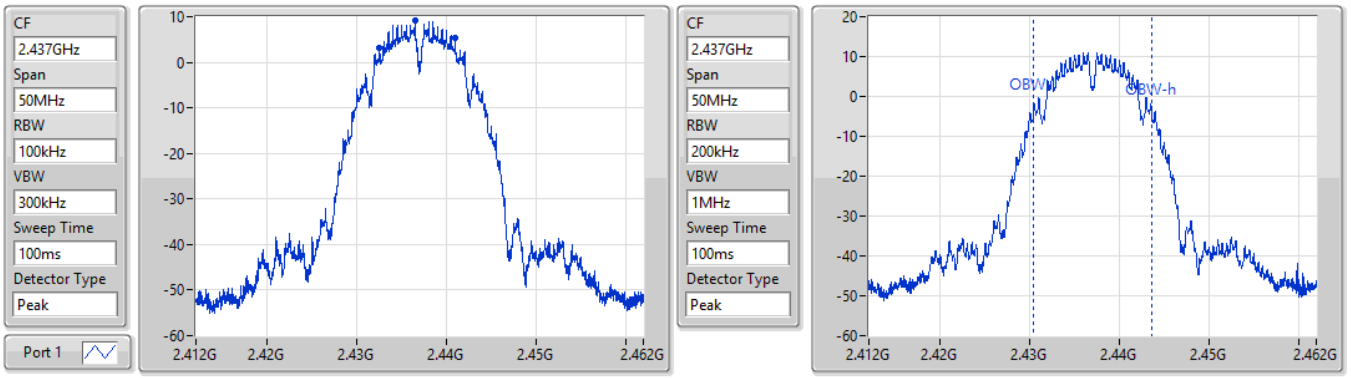


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.575M	2.40795G	2.416525G	13.143M	2.405478G	2.418622G	500k	1

802.11b_Nss1,(1Mbps)_1TX EBW

2437MHz

24/03/2021

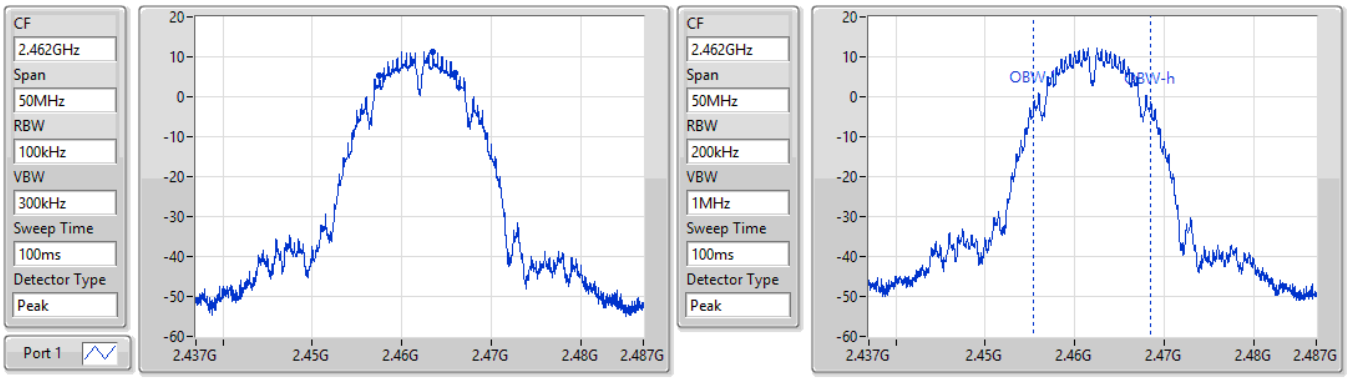


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.525M	2.432475G	2.441G	13.168M	2.430428G	2.443597G	500k	1

802.11b_Nss1,(1Mbps)_1TX EBW

2462MHz

24/03/2021

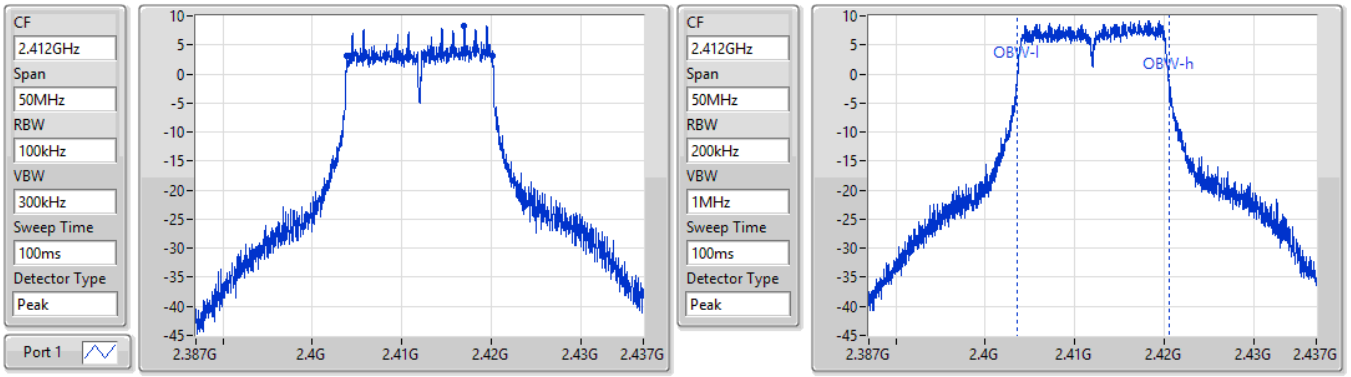


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.5M	2.457525G	2.466025G	13.068M	2.455453G	2.468522G	500k	1

802.11g_Nss1,(6Mbps)_1TX EBW

2412MHz

24/03/2021

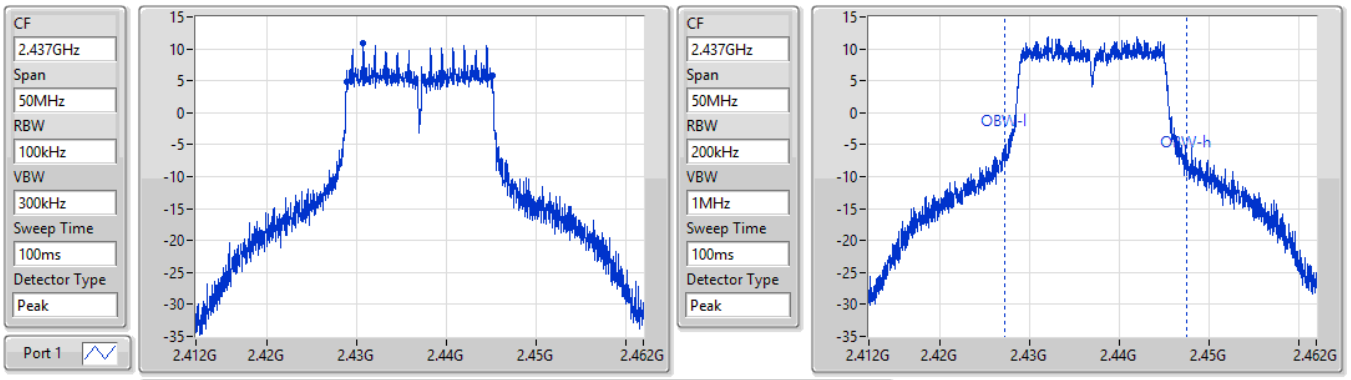


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.40385G	2.420175G	16.967M	2.403604G	2.420571G	500k	1

802.11g_Nss1,(6Mbps)_1TX EBW

2437MHz

24/03/2021

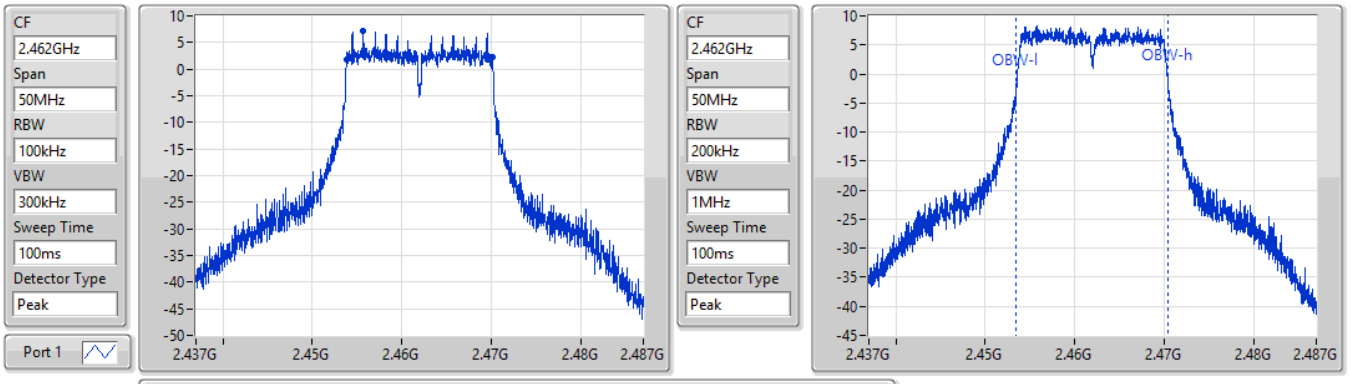


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.428825G	2.44515G	20.24M	2.42723G	2.44747G	500k	1

802.11g_Nss1,(6Mbps)_1TX EBW

2462MHz

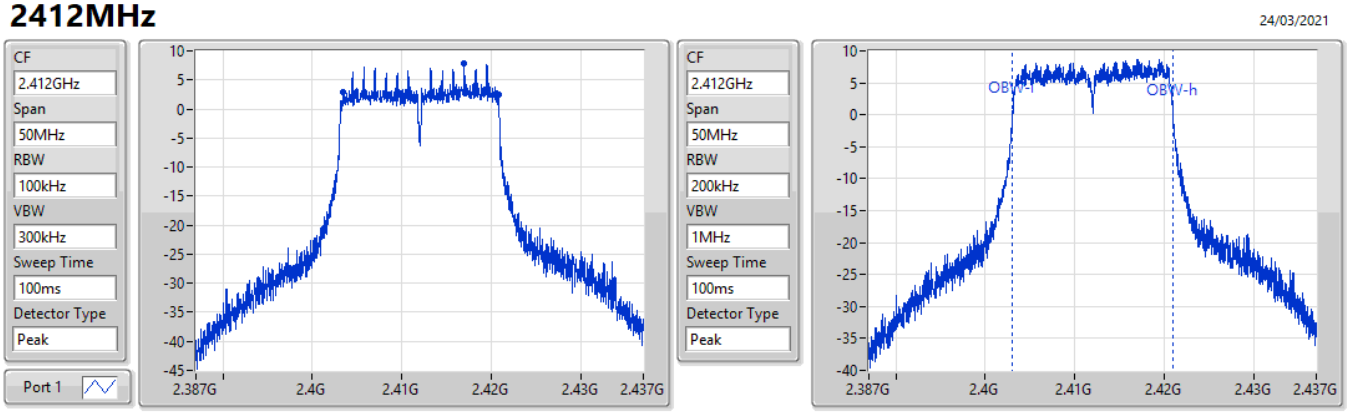
24/03/2021



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	16.917M	2.453479G	2.470396G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

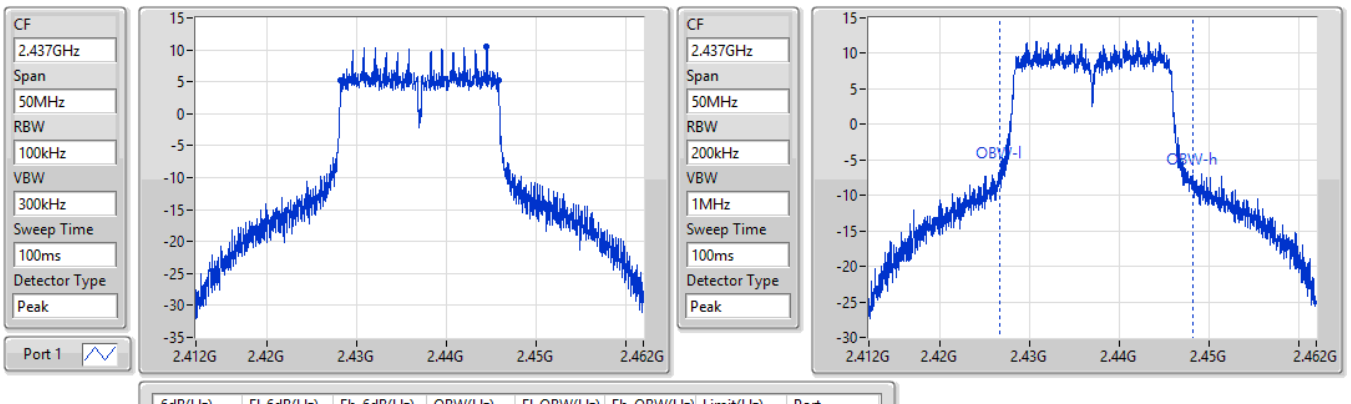
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.275M	2.4035G	2.420775G	17.941M	2.403079G	2.42102G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

2437MHz

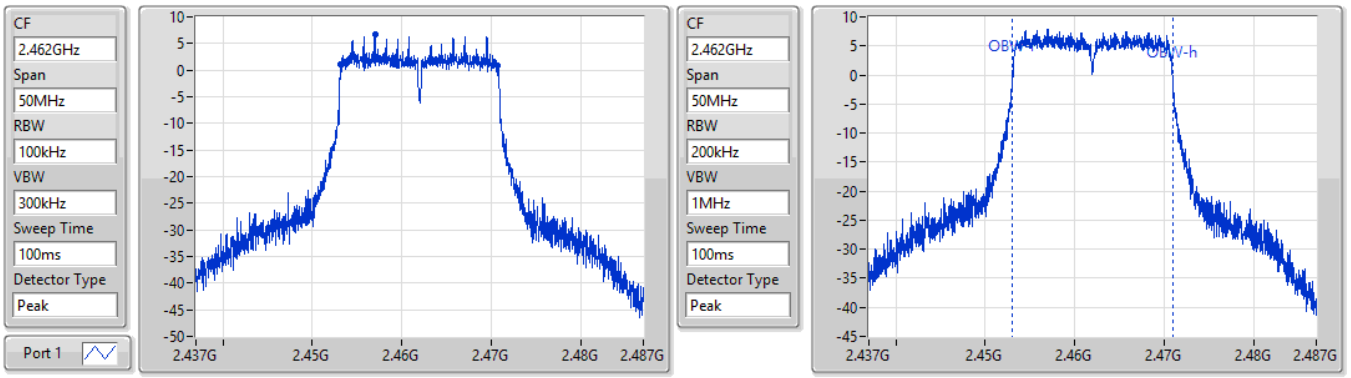


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	2.4282G	2.445775G	21.614M	2.42663G	2.448244G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

2462MHz

24/03/2021

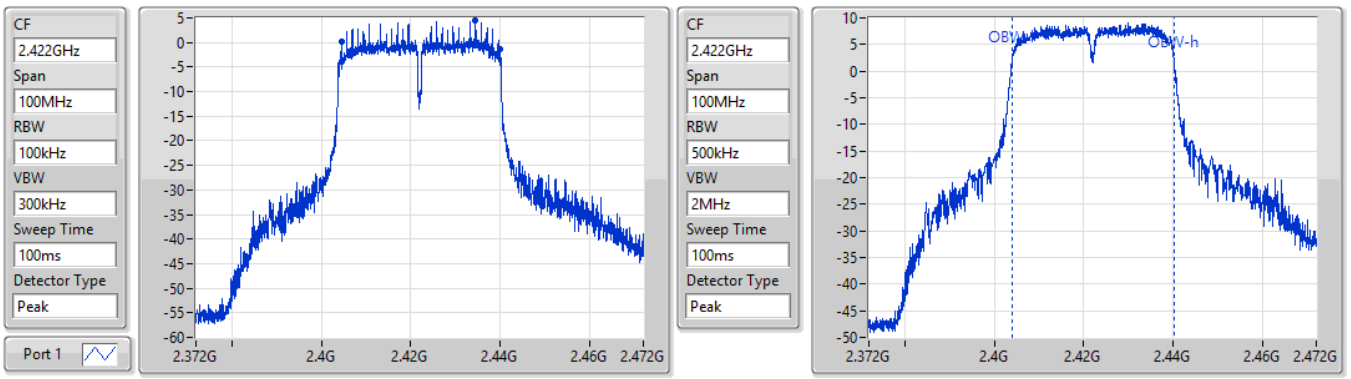


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.525M	2.453225G	2.47075G	17.891M	2.453029G	2.470921G	500k	1

802.11n HT40_Nss1,(MCS0)_1TX EBW

2422MHz

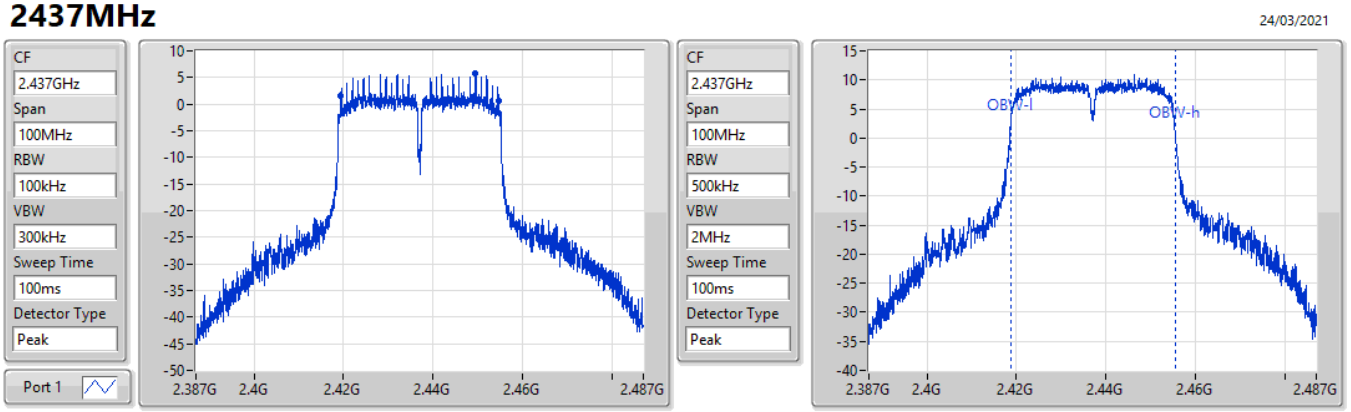
24/03/2021



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.4M	2.4045G	2.4399G	36.432M	2.403909G	2.440341G	500k	1

802.11n HT40_Nss1,(MCS0)_1TX EBW

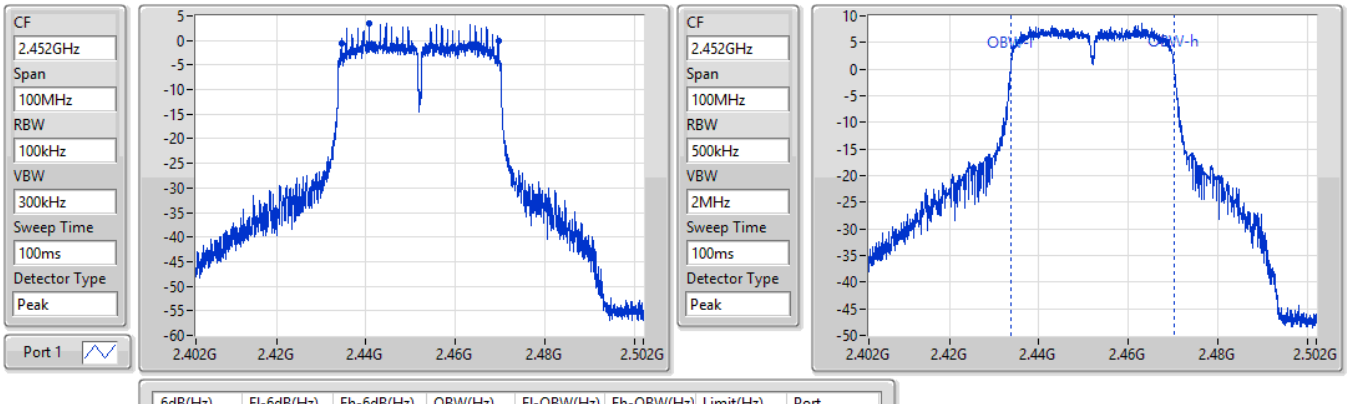
2437MHz



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	36.832M	2.418659G	2.455491G	500k	1

802.11n HT40_Nss1,(MCS0)_1TX EBW

2452MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.05M	2.4345G	2.46955G	36.432M	2.433759G	2.470191G	500k	1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	20.05	0.10116
802.11g_Nss1,(6Mbps)_1TX	21.15	0.13032
802.11n HT20_Nss1,(MCS0)_1TX	21.15	0.13032
802.11n HT40_Nss1,(MCS0)_1TX	19.12	0.08166

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.69	20.05	20.05	30.00
2437MHz	Pass	3.69	19.96	19.96	30.00
2462MHz	Pass	3.69	20.00	20.00	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.69	19.10	19.10	30.00
2437MHz	Pass	3.69	21.15	21.15	30.00
2457MHz	Pass	3.69	19.85	19.85	30.00
2462MHz	Pass	3.69	18.11	18.11	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.69	18.76	18.76	30.00
2437MHz	Pass	3.69	21.15	21.15	30.00
2457MHz	Pass	3.69	19.48	19.48	30.00
2462MHz	Pass	3.69	17.66	17.66	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.69	17.95	17.95	30.00
2437MHz	Pass	3.69	19.12	19.12	30.00
2452MHz	Pass	3.69	17.03	17.03	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-2.46
802.11g_Nss1,(6Mbps)_1TX	-3.42
802.11n HT20_Nss1,(MCS0)_1TX	-5.44
802.11n HT40_Nss1,(MCS0)_1TX	-9.15

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

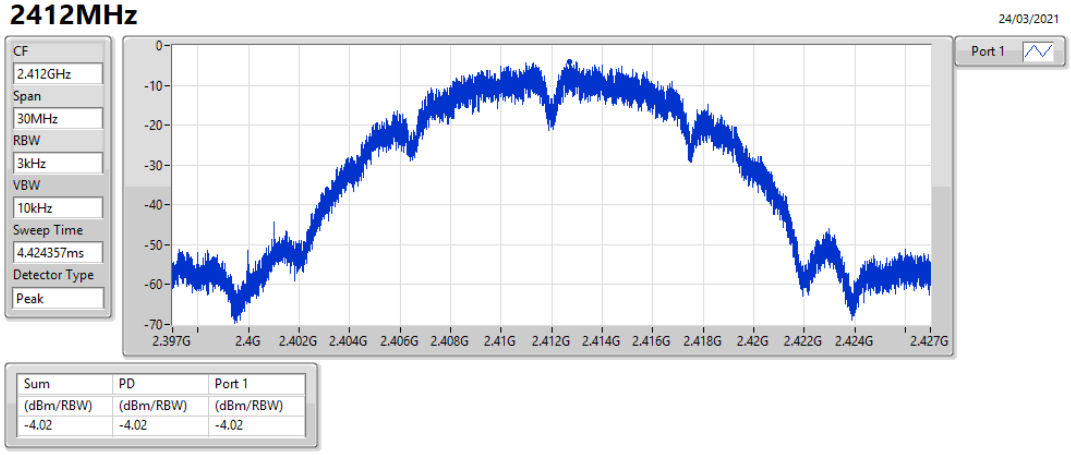
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.69	-4.02	-4.02	8.00
2437MHz	Pass	3.69	-2.46	-2.46	8.00
2462MHz	Pass	3.69	-3.15	-3.15	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.69	-6.12	-6.12	8.00
2437MHz	Pass	3.69	-3.42	-3.42	8.00
2462MHz	Pass	3.69	-6.90	-6.90	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.69	-6.70	-6.70	8.00
2437MHz	Pass	3.69	-5.44	-5.44	8.00
2462MHz	Pass	3.69	-8.02	-8.02	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.69	-9.15	-9.15	8.00
2437MHz	Pass	3.69	-29.85	-29.85	8.00
2452MHz	Pass	3.69	-10.61	-10.61	8.00

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_1TX PSD

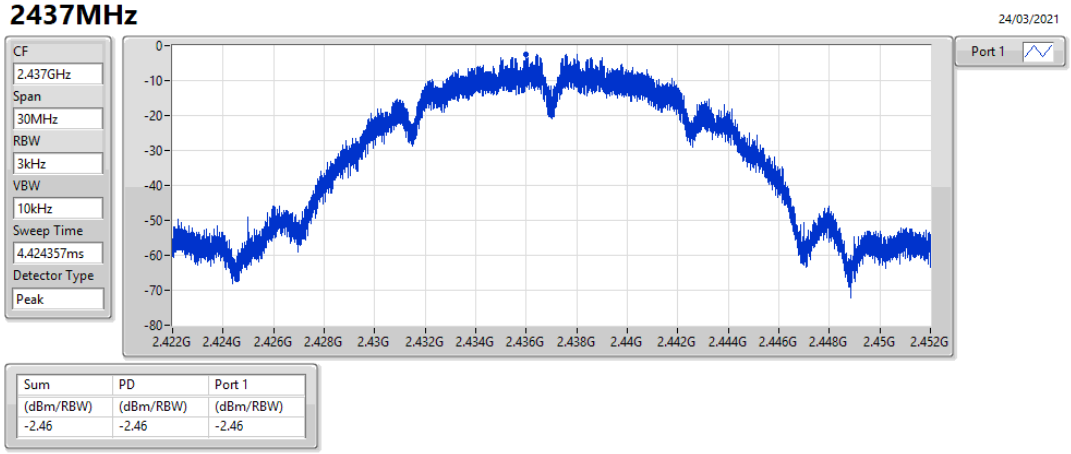
2412MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.02	-4.02	-4.02

802.11b_Nss1,(1Mbps)_1TX PSD

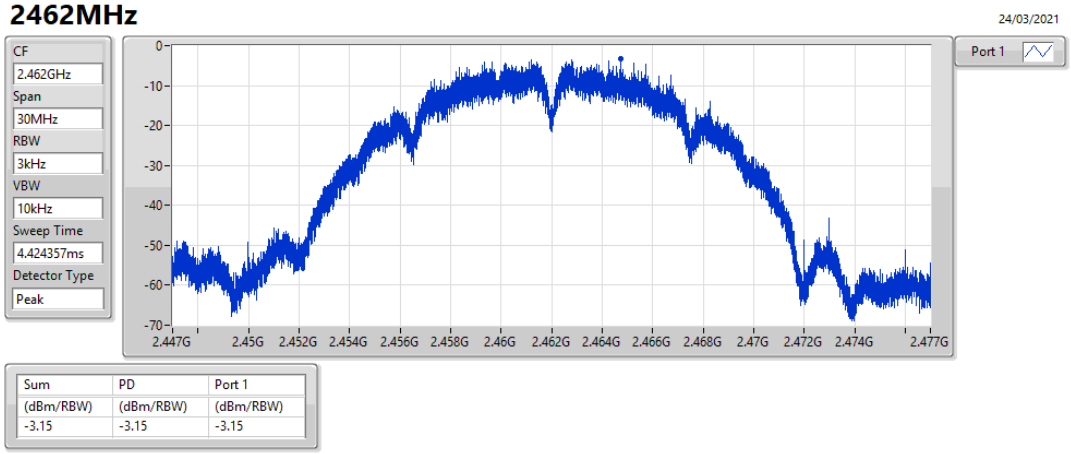
2437MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.46	-2.46	-2.46

802.11b_Nss1,(1Mbps)_1TX PSD

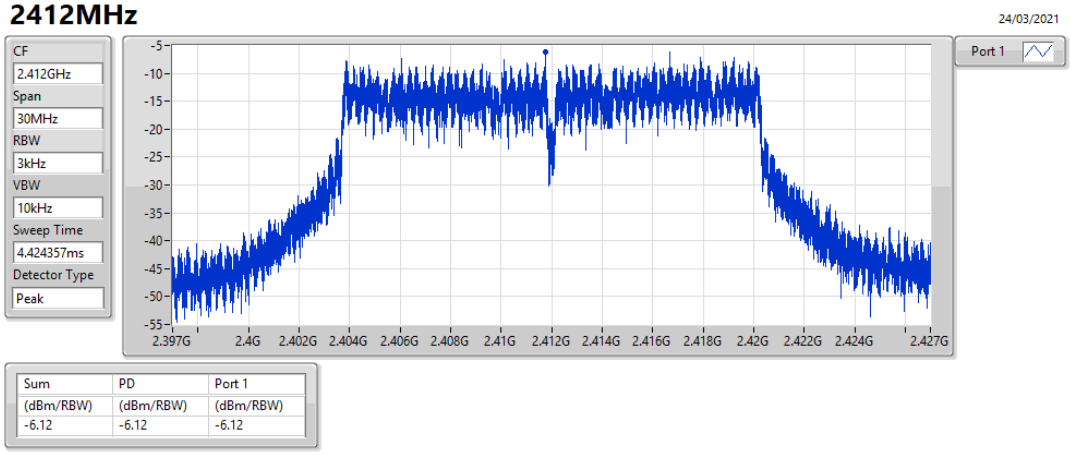
2462MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.15	-3.15	-3.15

802.11g_Nss1,(6Mbps)_1TX PSD

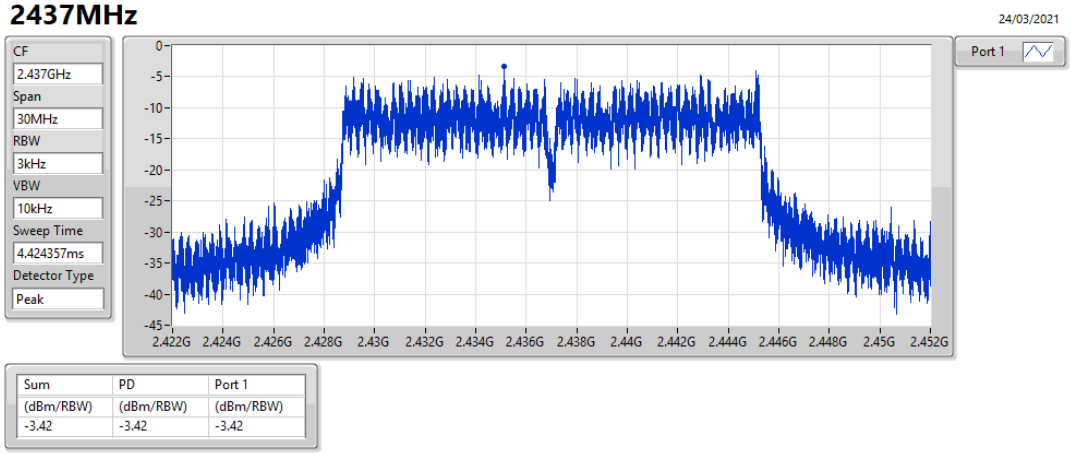
2412MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.12	-6.12	-6.12

802.11g_Nss1,(6Mbps)_1TX PSD

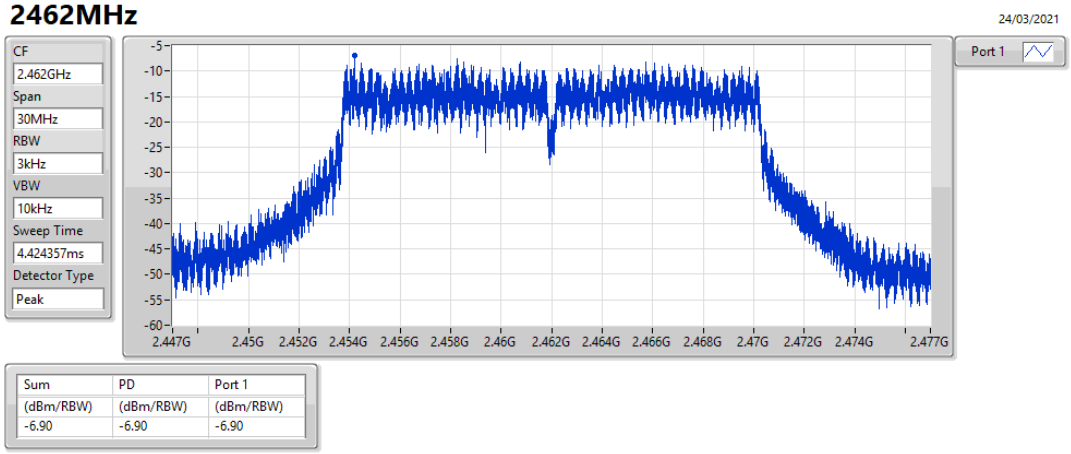
2437MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.42	-3.42	-3.42

802.11g_Nss1,(6Mbps)_1TX PSD

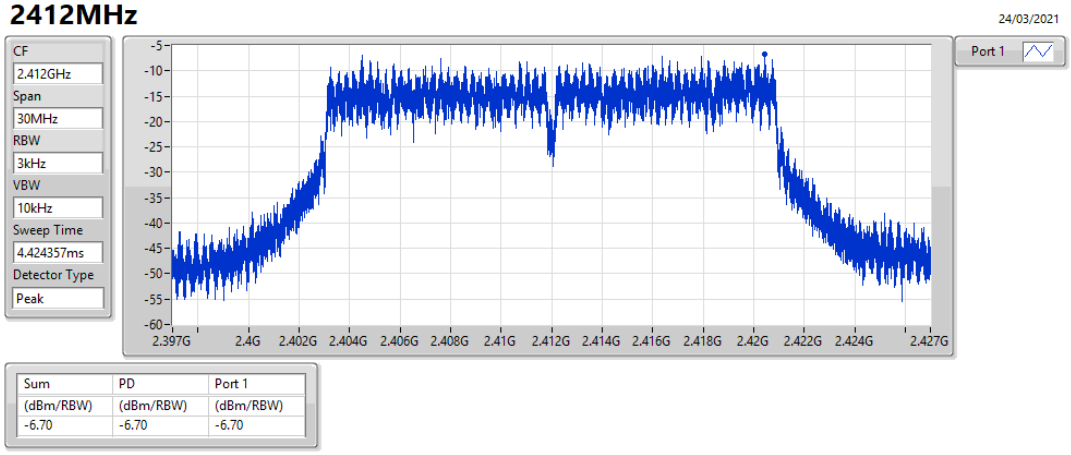
2462MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.90	-6.90	-6.90

802.11n HT20_Nss1,(MCS0)_1TX PSD

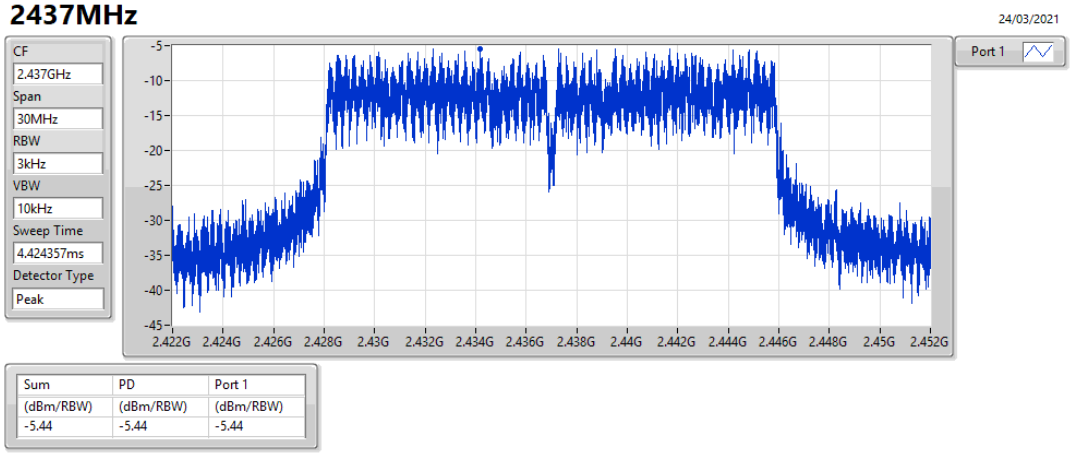
2412MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.70	-6.70	-6.70

802.11n HT20_Nss1,(MCS0)_1TX PSD

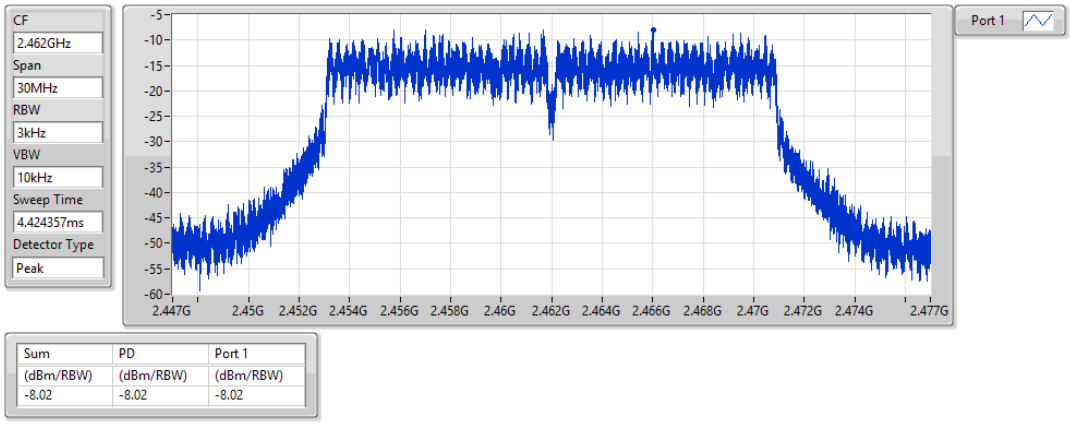
2437MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.44	-5.44	-5.44

802.11n HT20_Nss1,(MCS0)_1TX PSD

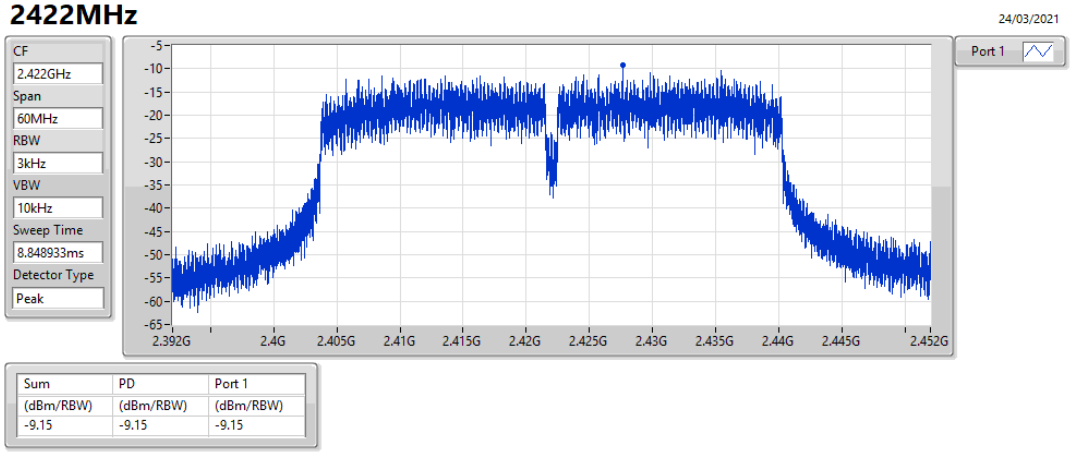
2462MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.02	-8.02	-8.02

802.11n HT40_Nss1,(MCS0)_1TX PSD

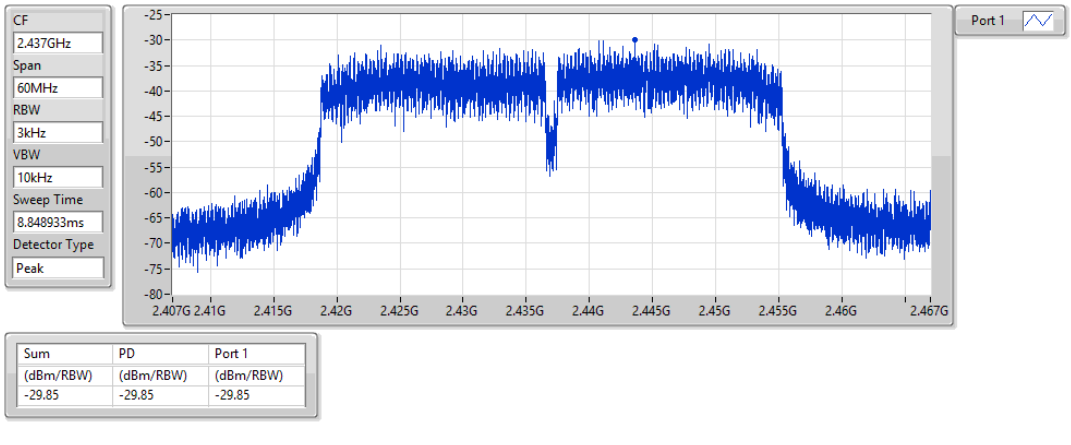
2422MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.15	-9.15	-9.15

802.11n HT40_Nss1,(MCS0)_1TX PSD

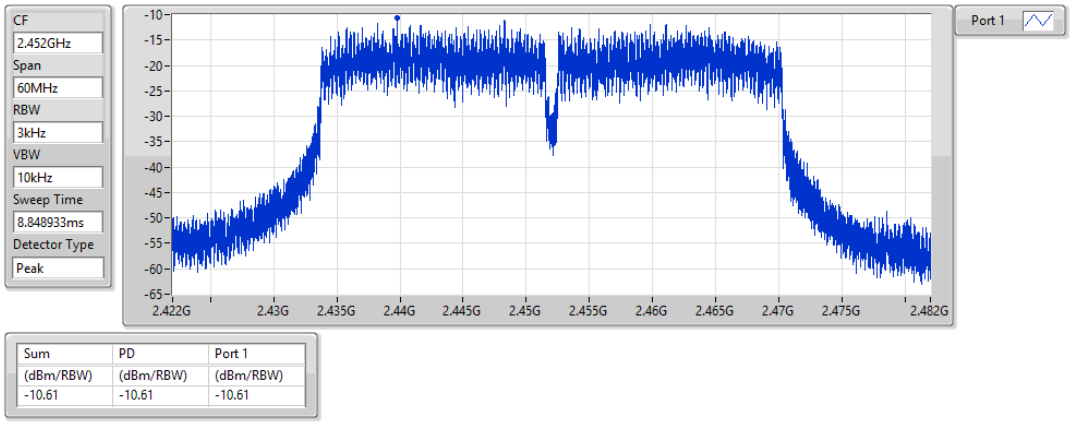
2437MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-29.85	-29.85	-29.85

802.11n HT40_Nss1,(MCS0)_1TX PSD

2452MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.61	-10.61	-10.61

Summary

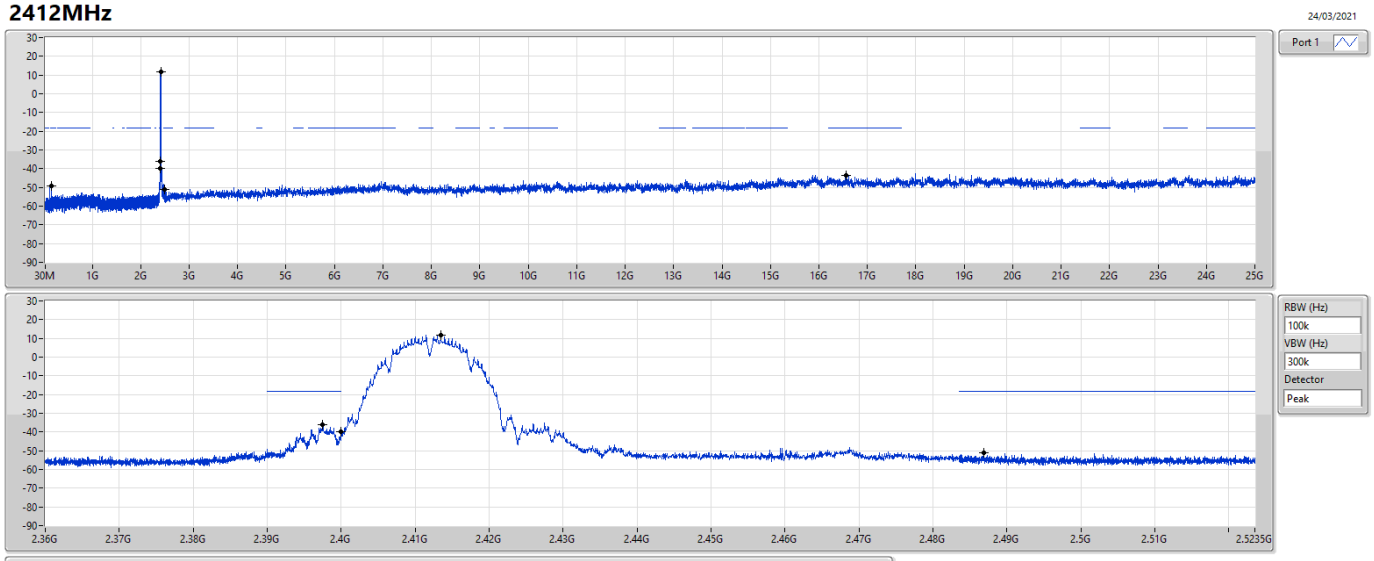
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.41349G	11.67	-18.33	159.9M	-49.30	2.39752G	-35.88	2.4G	-39.69	2.48684G	-51.28	16.56007G	-43.55	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43073G	10.67	-19.33	159.9M	-50.87	2.39986G	-21.61	2.4G	-24.83	2.49432G	-51.29	24.99438G	-43.03	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.44451G	10.59	-19.41	159.9M	-48.38	2.39918G	-22.39	2.4G	-25.62	2.50804G	-51.95	24.96629G	-42.29	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.44075G	5.66	-24.34	159.96M	-49.29	2.39992G	-25.89	2.4G	-28.66	2.48478G	-34.66	16.71252G	-43.45	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41349G	11.67	-18.33	159.9M	-49.30	2.39752G	-35.88	2.4G	-39.69	2.48684G	-51.28	16.56007G	-43.55	1
2437MHz	Pass	2.41349G	11.67	-18.33	159.9M	-49.70	2.39406G	-50.85	2.4835G	-53.62	2.49426G	-51.91	24.64319G	-42.68	1
2462MHz	Pass	2.41349G	11.67	-18.33	159.9M	-48.60	2.39896G	-51.92	2.4835G	-50.99	2.48354G	-49.89	23.58117G	-43.31	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43073G	10.67	-19.33	159.9M	-50.87	2.39986G	-21.61	2.4G	-24.83	2.49432G	-51.29	24.99438G	-43.03	1
2437MHz	Pass	2.43073G	10.67	-19.33	159.9M	-50.80	2.39892G	-39.86	2.4G	-41.19	2.48428G	-42.75	17.63052G	-42.78	1
2462MHz	Pass	2.43073G	10.67	-19.33	159.9M	-50.71	2.39742G	-50.91	2.4835G	-38.23	2.48354G	-35.38	24.89886G	-42.98	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44451G	10.59	-19.41	159.9M	-48.38	2.39918G	-22.39	2.4G	-25.62	2.50804G	-51.95	24.96629G	-42.29	1
2437MHz	Pass	2.44451G	10.59	-19.41	159.9M	-51.17	2.3995G	-37.47	2.4G	-41.19	2.4848G	-41.85	24.61228G	-43.62	1
2462MHz	Pass	2.44451G	10.59	-19.41	159.9M	-47.23	2.39424G	-50.78	2.4835G	-39.53	2.4835G	-34.75	17.64176G	-43.89	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44075G	5.66	-24.34	159.96M	-48.22	2.39888G	-27.10	2.4G	-28.19	2.4835G	-43.38	24.96915G	-43.06	1
2437MHz	Pass	2.44075G	5.66	-24.34	159.96M	-49.29	2.39992G	-25.89	2.4G	-28.66	2.48478G	-34.66	16.71252G	-43.45	1
2452MHz	Pass	2.44075G	5.66	-24.34	159.96M	-49.92	2.39852G	-44.86	2.4835G	-37.34	2.4845G	-32.31	17.66887G	-43.00	1

802.11b_Nss1,(1Mbps)_1TX **CSE NdB**

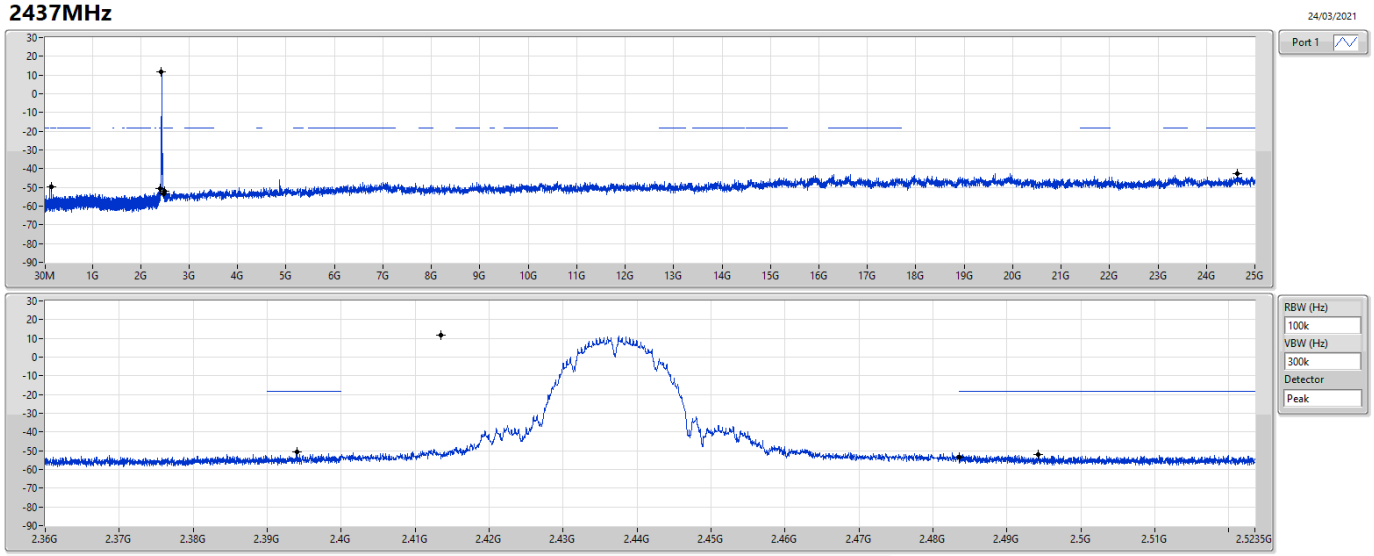
2412MHz



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	11.67	-18.33	159.9M	-49.30	2.39752G	-35.88	2.4G	-39.69	2.48684G	-51.28	16.56007G	-43.55	1

802.11b_Nss1,(1Mbps)_1TX **CSE NdB**

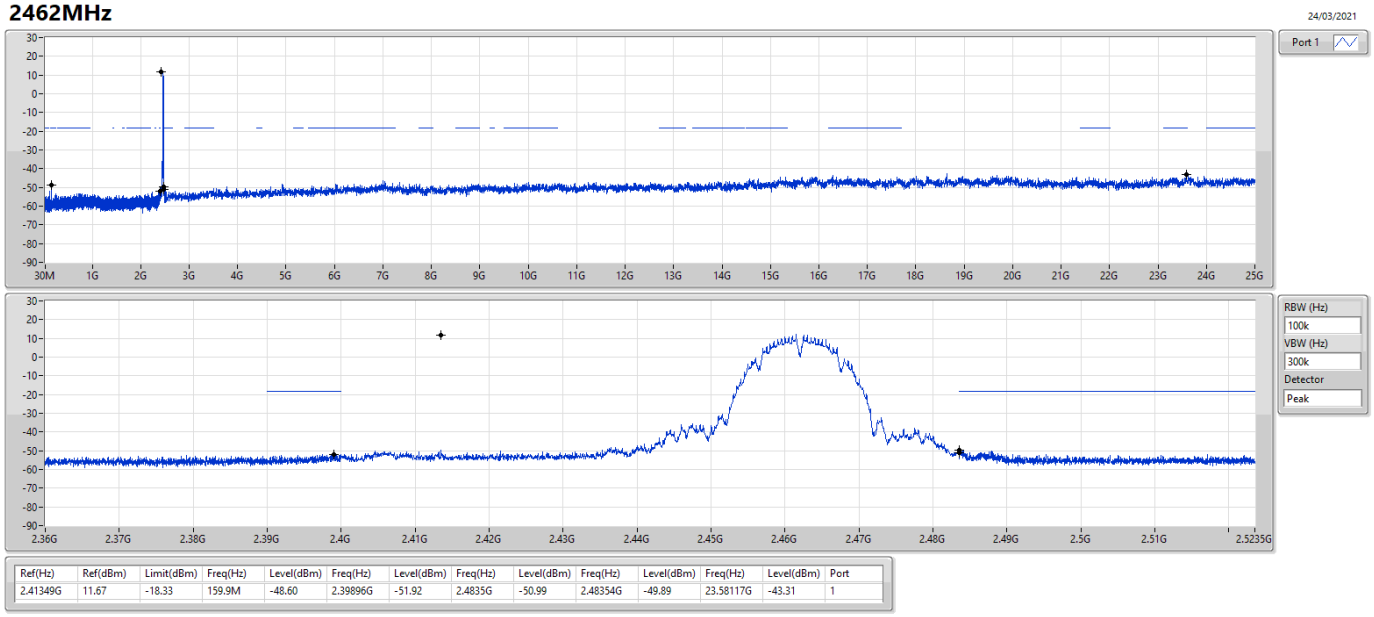
2437MHz



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	11.67	-18.33	159.9M	-49.70	2.39406G	-50.85	2.4835G	-53.62	2.49426G	-51.91	24.64319G	-42.68	1

802.11b_Nss1,(1Mbps)_1TX **CSE NdB**

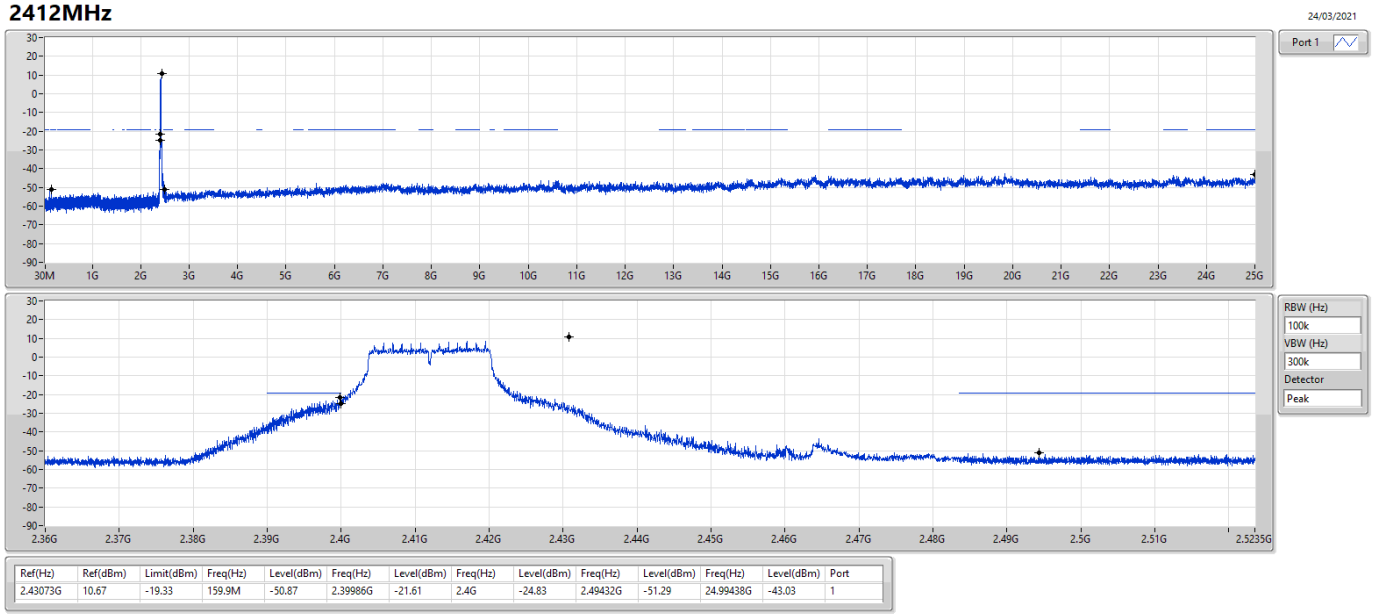
2462MHz



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	11.67	-18.33	159.9M	-48.60	2.39896G	-51.92	2.4835G	-50.99	2.48354G	-49.89	23.58117G	-43.31	1

802.11g_Nss1,(6Mbps)_1TX **CSE NdB**

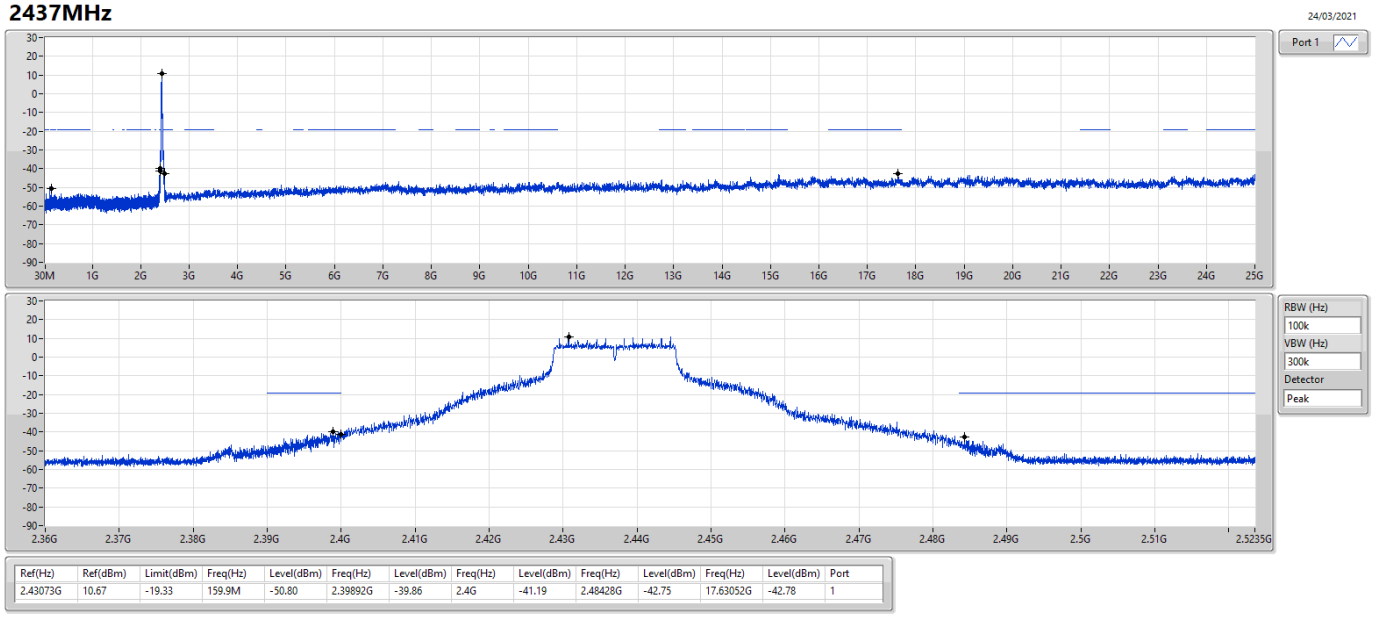
2412MHz



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
2.43073G	10.67	-19.33	159.9M	-50.87	2.39986G	-21.61	2.4G	-24.83	2.49432G	-51.29	24.99438G	-43.03	1

802.11g_Nss1,(6Mbps)_1TX **CSE NdB**

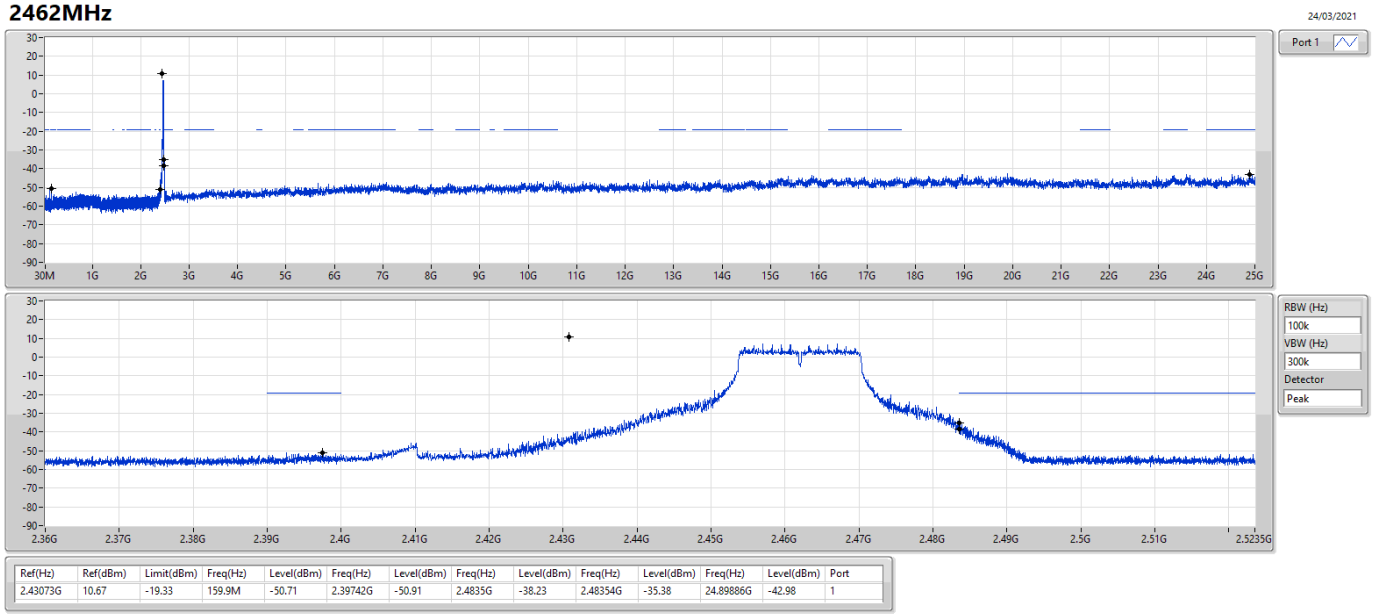
2437MHz



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
2.43073G	10.67	-19.33	159.9M	-50.80	2.39892G	-39.86	2.4G	-41.19	2.48428G	-42.75	17.63052G	-42.78	1

802.11g_Nss1,(6Mbps)_1TX **CSE NdB**

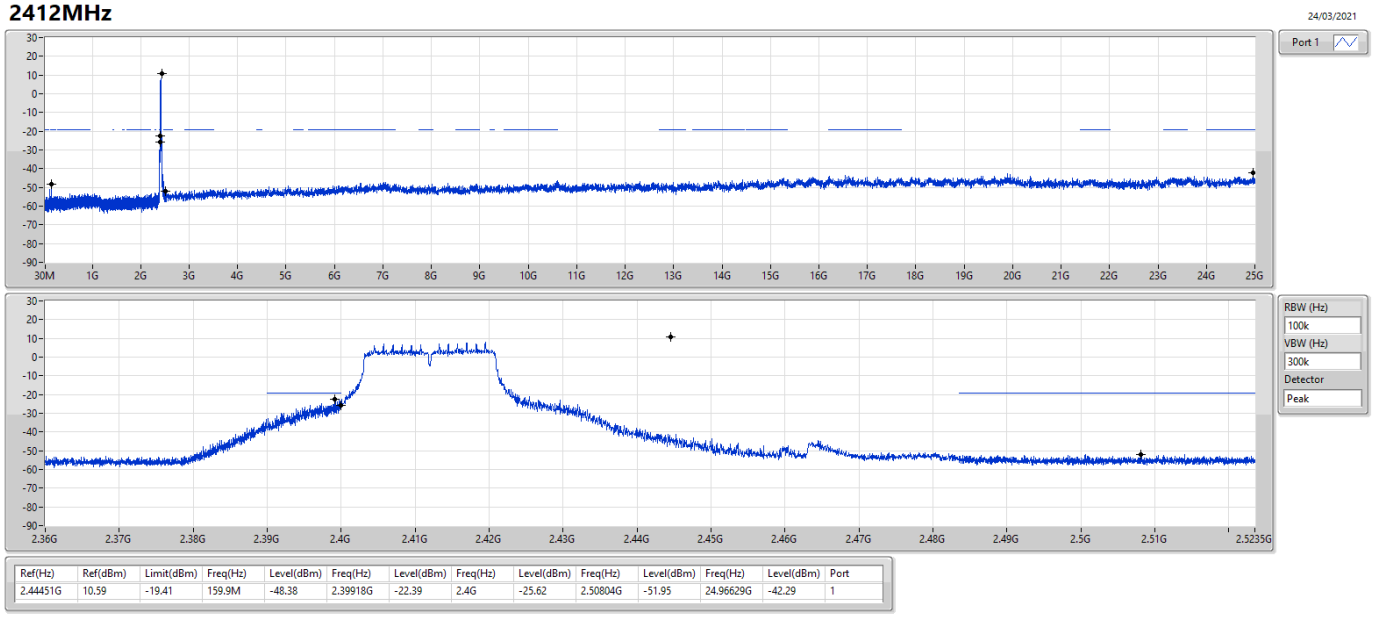
2462MHz



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
2.43073G	10.67	-19.33	159.9M	-50.71	2.39742G	-50.91	2.4835G	-38.23	2.48354G	-35.38	24.89886G	-42.98	1

802.11n HT20_Nss1,(MCS0)_1TX **CSE NdB**

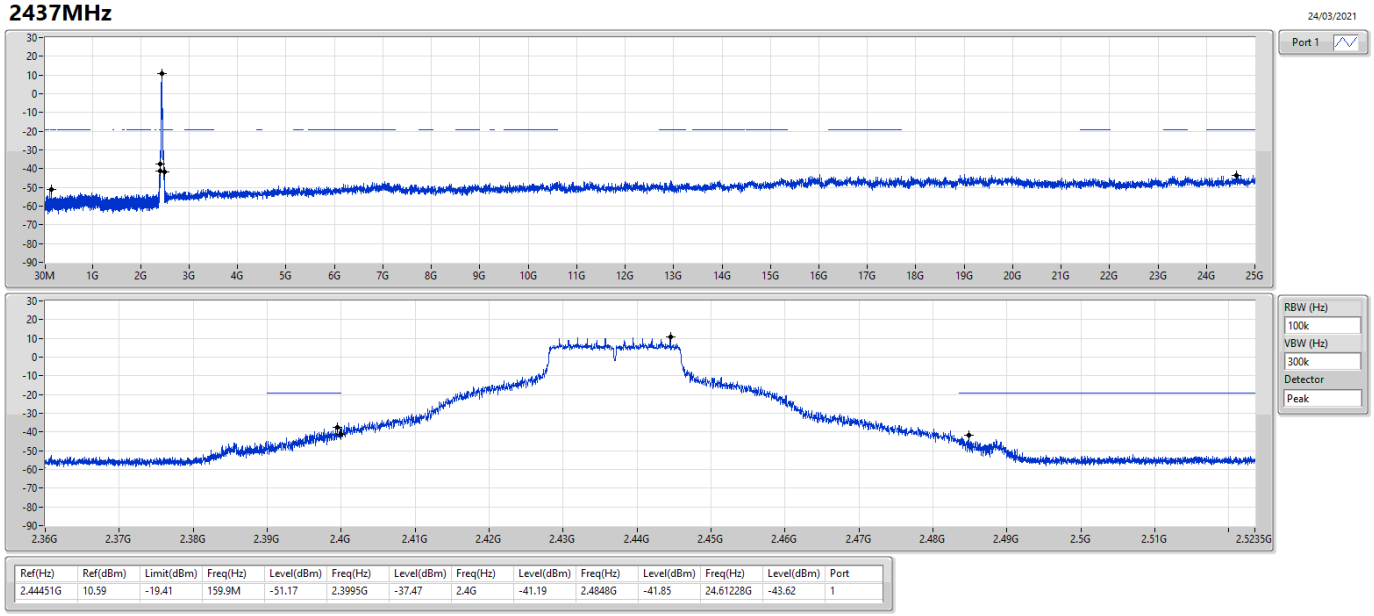
2412MHz



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
2.44451G	10.59	-19.41	159.9M	-48.38	2.39918G	-22.39	2.4G	-25.62	2.50804G	-51.95	24.96629G	-42.29	1

802.11n HT20_Nss1,(MCS0)_1TX **CSE NdB**

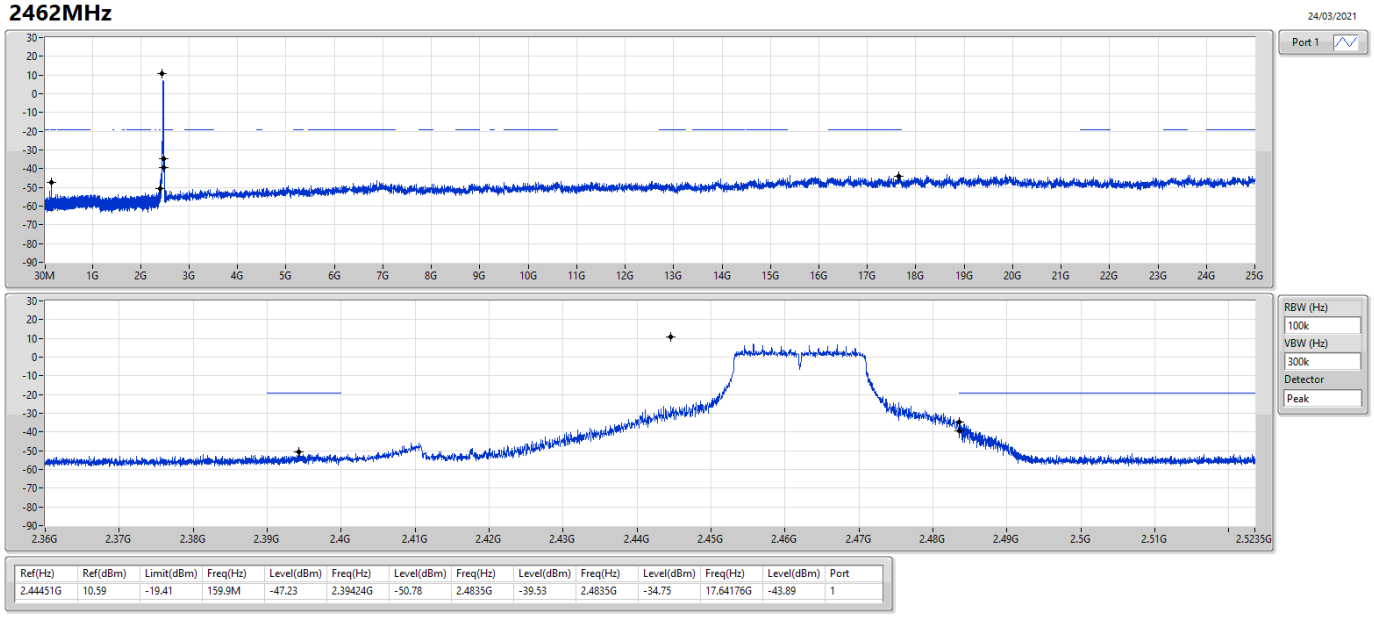
2437MHz



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
2.44451G	10.59	-19.41	159.9M	-51.17	2.3995G	-37.47	2.4G	-41.19	2.4848G	-41.85	24.61228G	-43.62	1

802.11n HT20_Nss1,(MCS0)_1TX **CSE NdB**

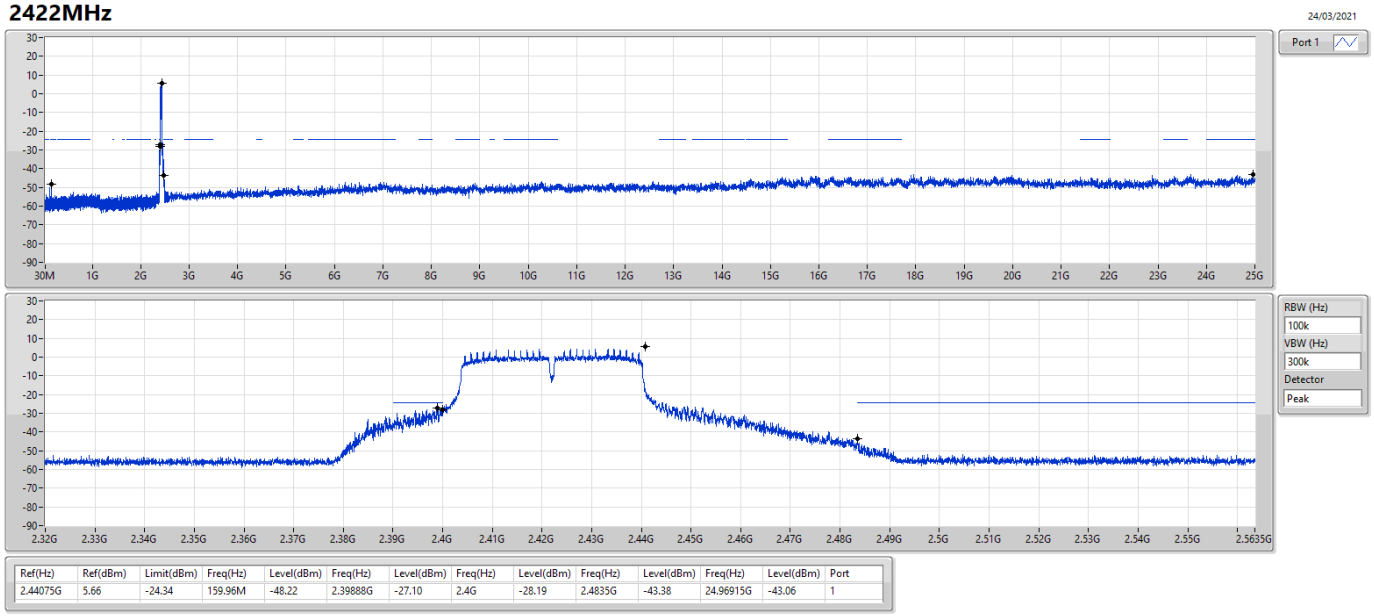
2462MHz



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
2.44451G	10.59	-19.41	159.9M	-47.23	2.39424G	-50.78	2.4835G	-39.53	2.4835G	-34.75	17.64176G	-43.89	1

802.11n HT40_Nss1,(MCS0)_1TX **CSE NdB**

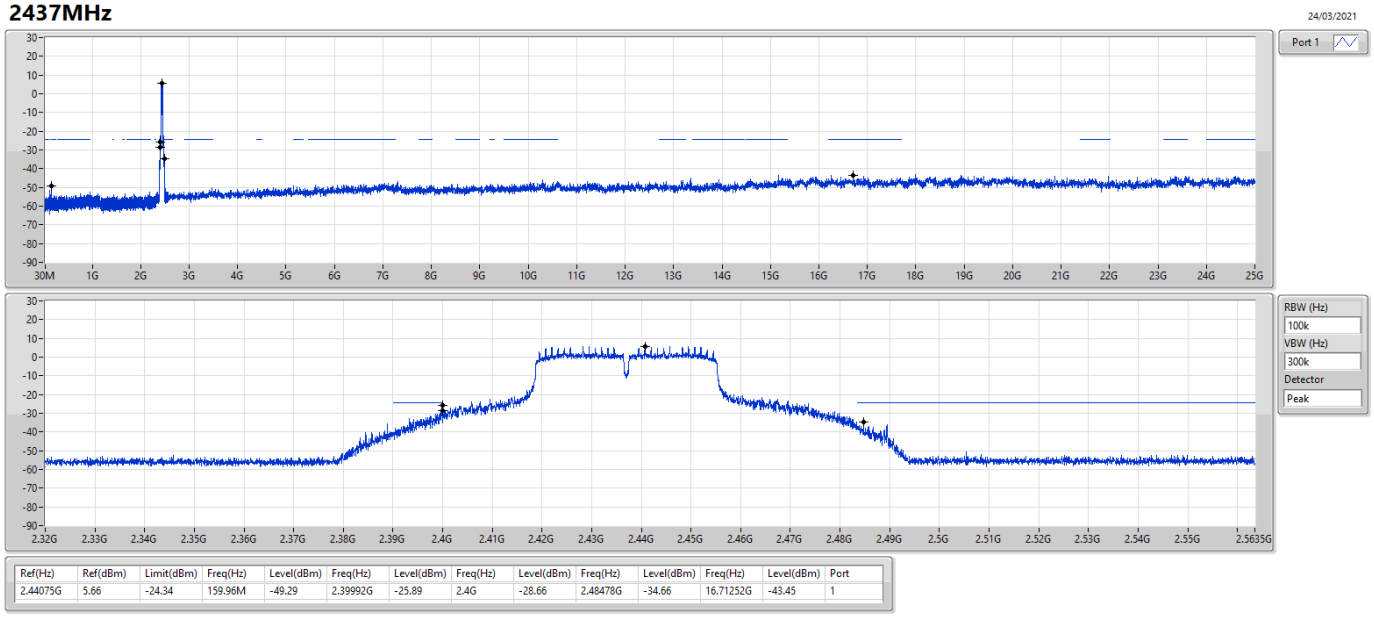
2422MHz



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
2.44075G	5.66	-24.34	159.96M	-48.22	2.39888G	-27.10	2.4G	-28.19	2.4835G	-43.38	24.96915G	-43.06	1

802.11n HT40_Nss1,(MCS0)_1TX **CSE NdB**

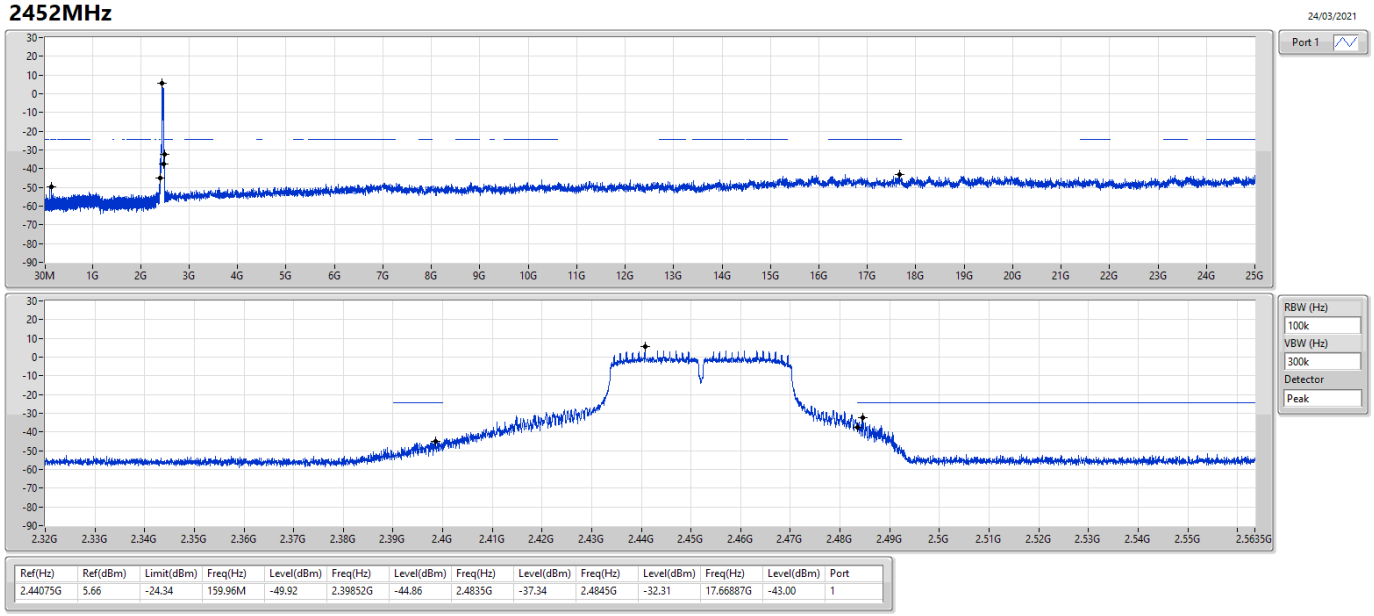
2437MHz



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
2.44075G	5.66	-24.34	159.96M	-49.29	2.39992G	-25.89	2.4G	-28.66	2.48478G	-34.66	16.71252G	-43.45	1

802.11n HT40_Nss1,(MCS0)_1TX **CSE NdB**

2452MHz

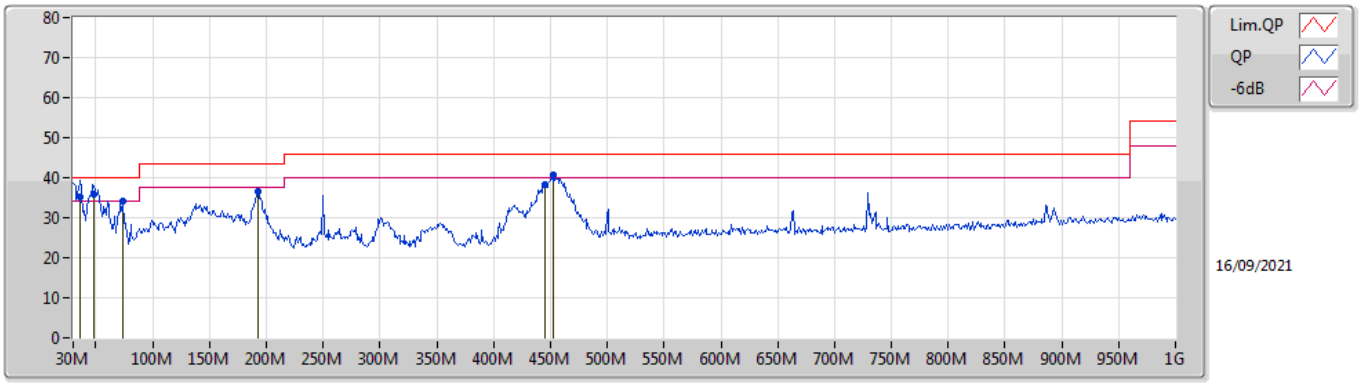


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	5.66	-24.34	159.96M	-49.92	2.39852G	-44.86	2.4835G	-37.34	2.4845G	-32.31	17.66887G	-43.00	1

Summary

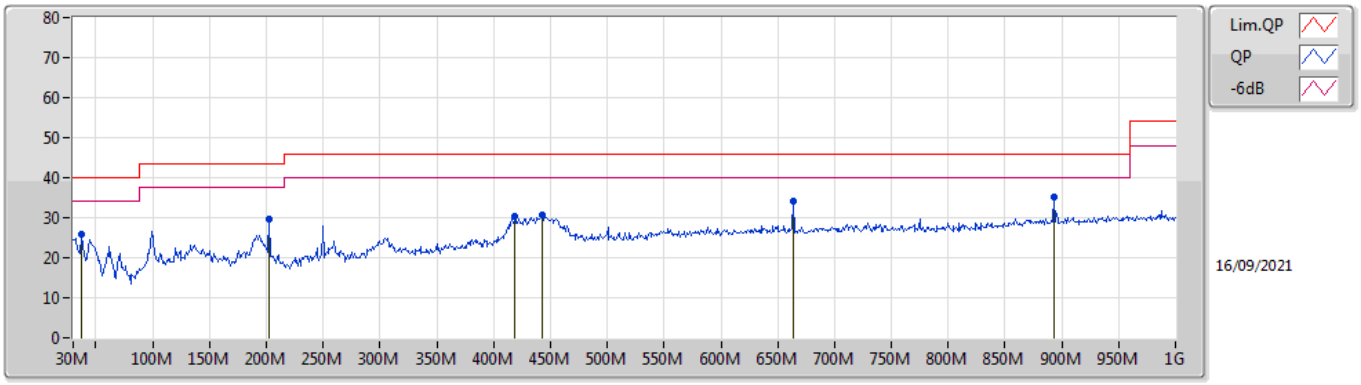
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	QP	48.43M	35.98	40.00	-4.02	Vertical

Mode 4



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	35.82M	35.21	40.00	-4.79	-10.09	3	Vertical	262	1.00	-	45.30	20.99	0.52	31.60
QP	48.43M	35.98	40.00	-4.02	-16.62	3	Vertical	360	1.00	"Worst"	52.60	14.53	0.60	31.75
QP	73.65M	34.04	40.00	-5.96	-18.83	3	Vertical	26	2.00	-	52.87	12.20	0.87	31.90
QP	192.96M	36.51	43.50	-6.99	-15.51	3	Vertical	256	1.00	-	52.02	14.84	1.63	31.98
QP	445.16M	38.40	46.00	-7.60	-6.98	3	Vertical	152	1.25	-	45.38	22.60	2.69	32.27
QP	452.92M	40.55	46.00	-5.45	-6.87	3	Vertical	162	1.25	-	47.42	22.70	2.71	32.28

Mode 4



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	37.76M	25.93	40.00	-14.07	-11.10	3	Horizontal	79	1.50	-	37.03	19.97	0.56	31.63
QP	202.66M	29.54	43.50	-13.96	-15.24	3	Horizontal	120	3.00	-	44.78	15.04	1.71	31.99
QP	418.97M	30.43	46.00	-15.57	-7.10	3	Horizontal	127	1.00	-	37.53	22.48	2.64	32.22
QP	442.25M	30.78	46.00	-15.22	-7.03	3	Horizontal	118	1.00	-	37.81	22.56	2.68	32.27
QP	663.41M	34.12	46.00	-11.88	-4.70	3	Horizontal	360	1.50	-	38.82	24.52	3.35	32.57
QP	893.3M	35.25	46.00	-10.75	-2.18	3	Horizontal	307	1.00	"Worst"	37.43	26.22	4.25	32.65

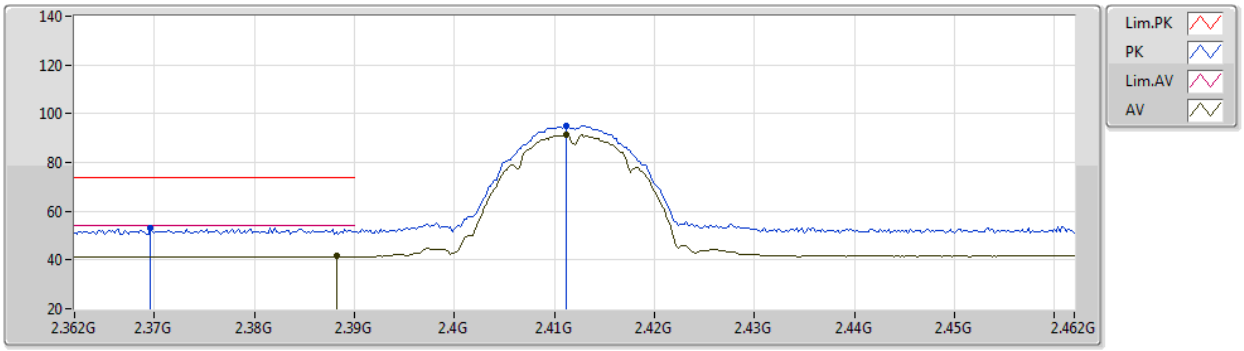
SSummary

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 HT40_Nss1,(MCS0)_1TX	Pass	AV	2.3884G	53.97	54.00	-0.03	3	Horizontal	199	1.69	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

23/03/2021



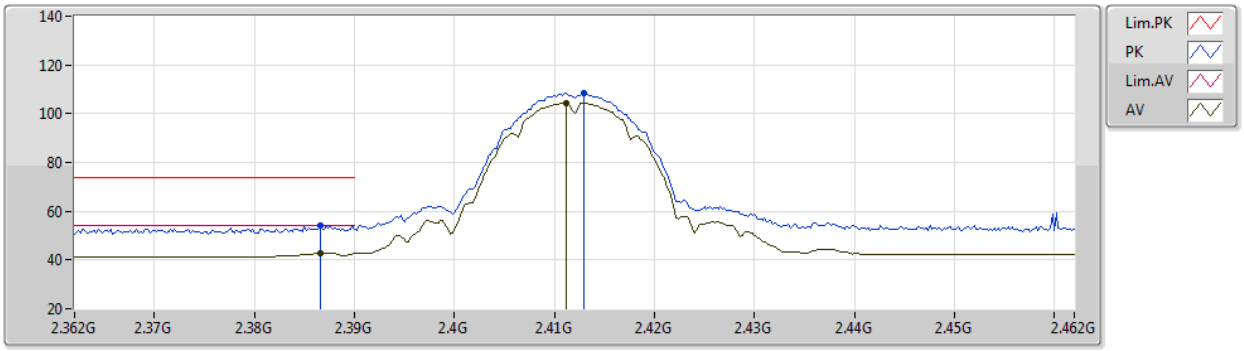
EUT Y_1TX
Setting 21
01-F-K-5

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	2.3696G	53.12	74.00	-20.88	23.61	3	Vertical	236	1.00	-	27.34	2.17	-
AV	2.3882G	41.48	54.00	-12.52	11.91	3	Vertical	236	1.00	-	27.38	2.19	-
PK	2.4112G	95.08	Inf	-Inf	65.45	3	Vertical	236	1.00	-	27.42	2.21	-
AV	2.4112G	91.37	Inf	-Inf	61.74	3	Vertical	236	1.00	-	27.42	2.21	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

23/03/2021



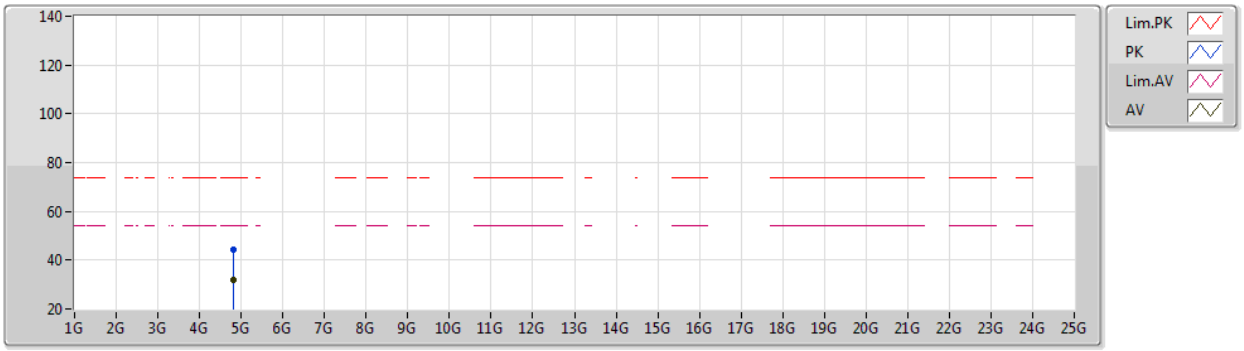
EUT Y_1TX
Setting 21
01-F-K-5

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	54.36	74.00	-19.64	24.80	3	Horizontal	200	1.69	-	27.37	2.19	-
AV	2.3866G	42.81	54.00	-11.19	13.25	3	Horizontal	200	1.69	-	27.37	2.19	-
PK	2.413G	108.35	Inf	-Inf	78.71	3	Horizontal	200	1.69	-	27.43	2.21	-
AV	2.4112G	104.53	Inf	-Inf	74.90	3	Horizontal	200	1.69	-	27.42	2.21	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

23/03/2021



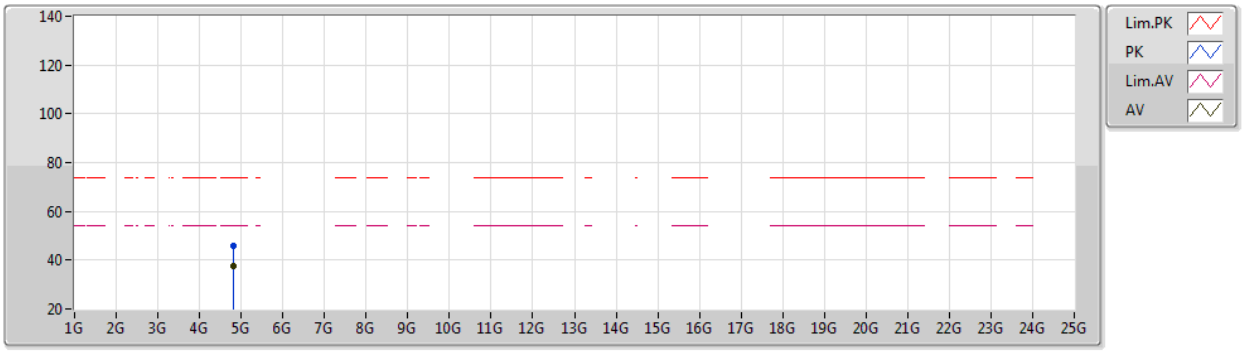
EUT Y_1TX
Setting 21
01-F-K-5

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	4.82395G	44.24	74.00	-29.76	41.54	3	Vertical	113	1.74	-	32.24	5.01	34.55
AV	4.8239G	32.09	54.00	-21.91	29.39	3	Vertical	113	1.74	-	32.24	5.01	34.55

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

23/03/2021



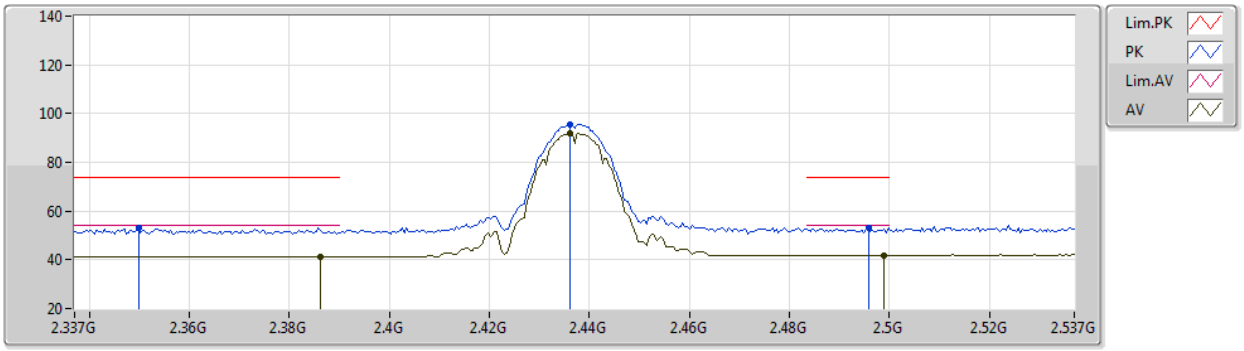
EUT Y_1TX
Setting 21
01-F-K-5

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	4.82387G	45.80	74.00	-28.20	43.10	3	Horizontal	247	2.51	-	32.24	5.01	34.55
AV	4.82401G	37.36	54.00	-16.64	34.66	3	Horizontal	247	2.51	-	32.24	5.01	34.55

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

23/03/2021



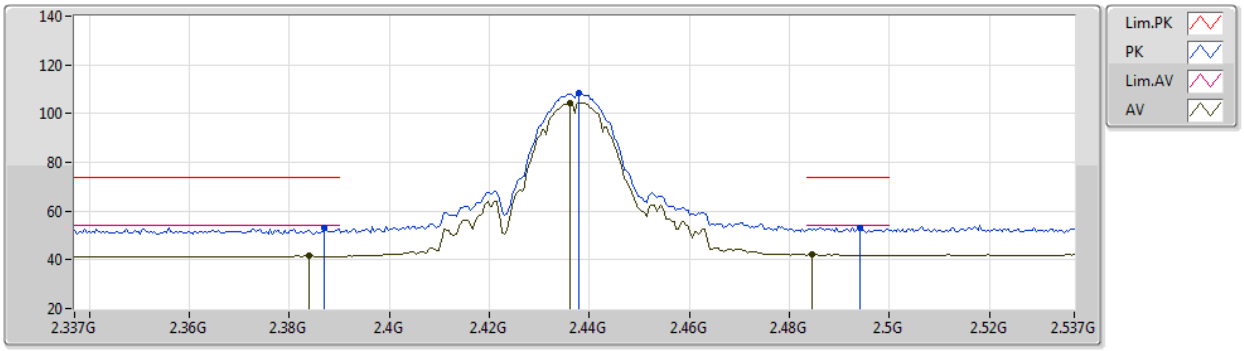
EUT Y_1TX
Setting 21
01-F-K-5

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	2.3498G	53.35	74.00	-20.65	23.90	3	Vertical	83	2.00	-	27.30	2.15	-
AV	2.3862G	41.37	54.00	-12.63	11.81	3	Vertical	83	2.00	-	27.37	2.19	-
PK	2.4362G	95.70	Inf	-Inf	65.99	3	Vertical	83	2.00	-	27.47	2.24	-
AV	2.4362G	91.84	Inf	-Inf	62.13	3	Vertical	83	2.00	-	27.47	2.24	-
PK	2.4958G	53.31	74.00	-20.69	23.24	3	Vertical	83	2.00	-	27.77	2.30	-
AV	2.499G	41.89	54.00	-12.11	11.80	3	Vertical	83	2.00	-	27.79	2.30	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

23/03/2021



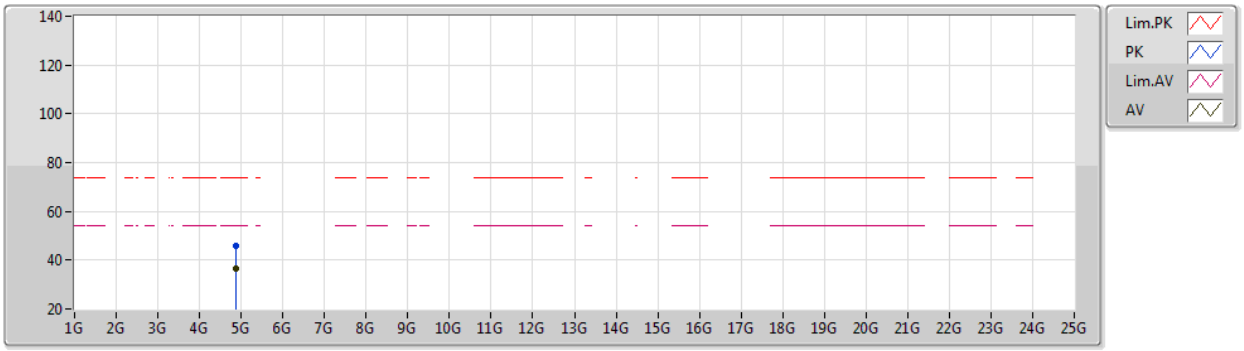
EUT Y_1TX
Setting 21
01-F-K-5

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	53.17	74.00	-20.83	23.61	3	Horizontal	199	1.65	-	27.37	2.19	-
AV	2.3838G	41.63	54.00	-12.37	12.08	3	Horizontal	199	1.65	-	27.37	2.18	-
PK	2.4378G	108.20	Inf	-Inf	78.48	3	Horizontal	199	1.65	-	27.48	2.24	-
AV	2.4362G	104.35	Inf	-Inf	74.64	3	Horizontal	199	1.65	-	27.47	2.24	-
PK	2.4942G	53.32	74.00	-20.68	23.26	3	Horizontal	199	1.65	-	27.77	2.29	-
AV	2.4846G	42.10	54.00	-11.90	12.11	3	Horizontal	199	1.65	-	27.71	2.28	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

23/03/2021



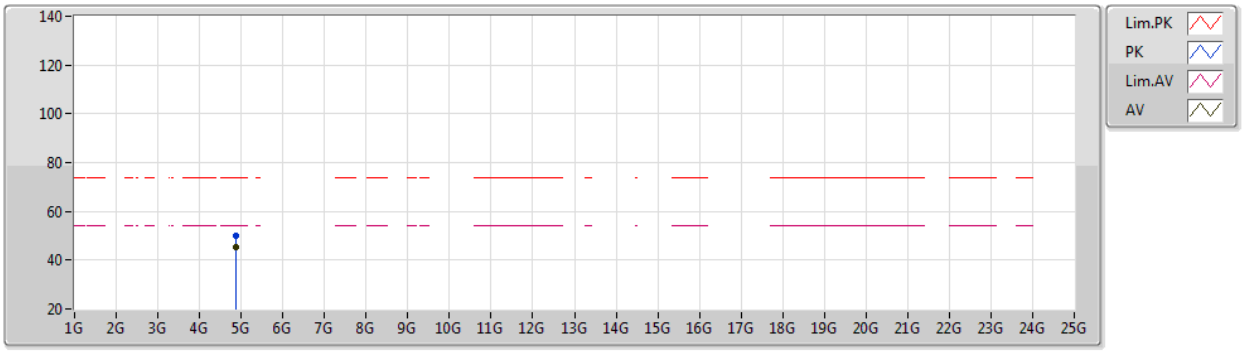
EUT Y_1TX
Setting 21
01-F-K-5

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	4.87415G	46.00	74.00	-28.00	43.04	3	Vertical	143	2.45	-	32.45	5.04	34.53
AV	4.87402G	36.59	54.00	-17.41	33.63	3	Vertical	143	2.45	-	32.45	5.04	34.53

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

23/03/2021



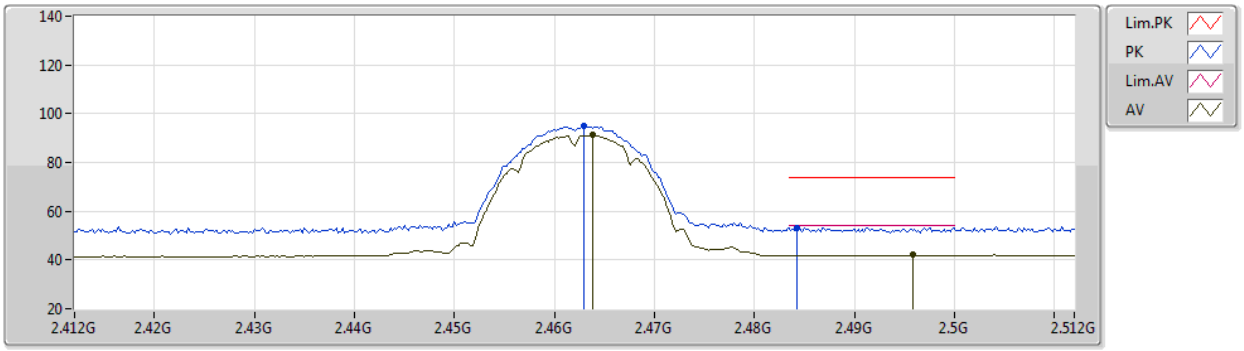
EUT Y_1TX
Setting 21
01-F-K-5

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	4.87392G	50.25	74.00	-23.75	47.29	3	Horizontal	268	2.50	-	32.45	5.04	34.53
AV	4.87396G	45.24	54.00	-8.76	42.28	3	Horizontal	268	2.50	-	32.45	5.04	34.53

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

23/03/2021



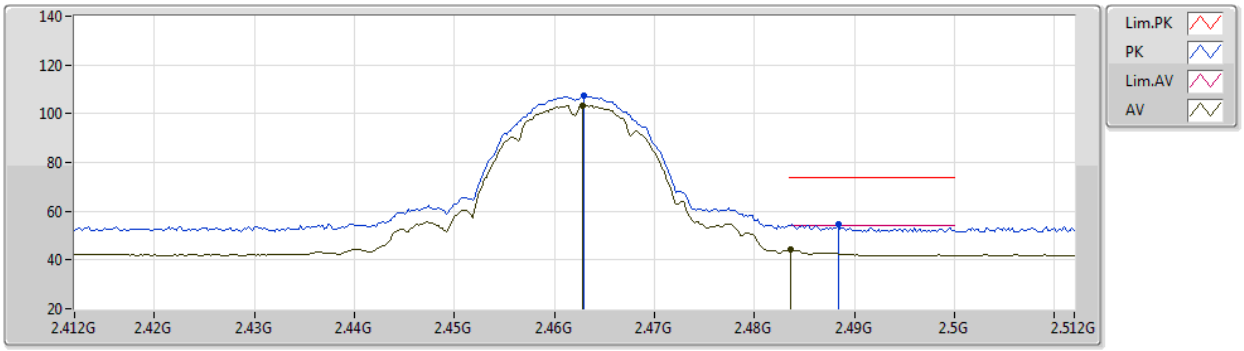
EUT Y_1TX
Setting 21
01-F-K-5

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	95.07	Inf	-Inf	65.23	3	Vertical	123	1.77	-	27.58	2.26	-
AV	2.4638G	91.15	Inf	-Inf	61.31	3	Vertical	123	1.77	-	27.58	2.26	-
PK	2.4842G	53.33	74.00	-20.67	23.34	3	Vertical	123	1.77	-	27.71	2.28	-
AV	2.4958G	42.00	54.00	-12.00	11.93	3	Vertical	123	1.77	-	27.77	2.30	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

23/03/2021



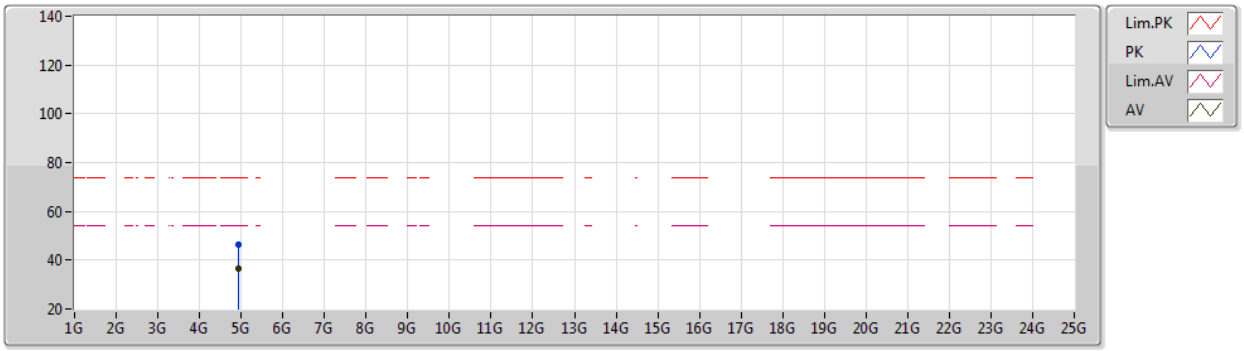
EUT Y_1TX
Setting 21
01-F-K-5

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	107.33	Inf	-Inf	77.49	3	Horizontal	199	1.87	-	27.58	2.26	-
AV	2.4628G	103.37	Inf	-Inf	73.53	3	Horizontal	199	1.87	-	27.58	2.26	-
PK	2.4884G	54.76	74.00	-19.24	24.74	3	Horizontal	199	1.87	-	27.73	2.29	-
AV	2.4836G	44.31	54.00	-9.69	14.33	3	Horizontal	199	1.87	-	27.70	2.28	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

23/03/2021



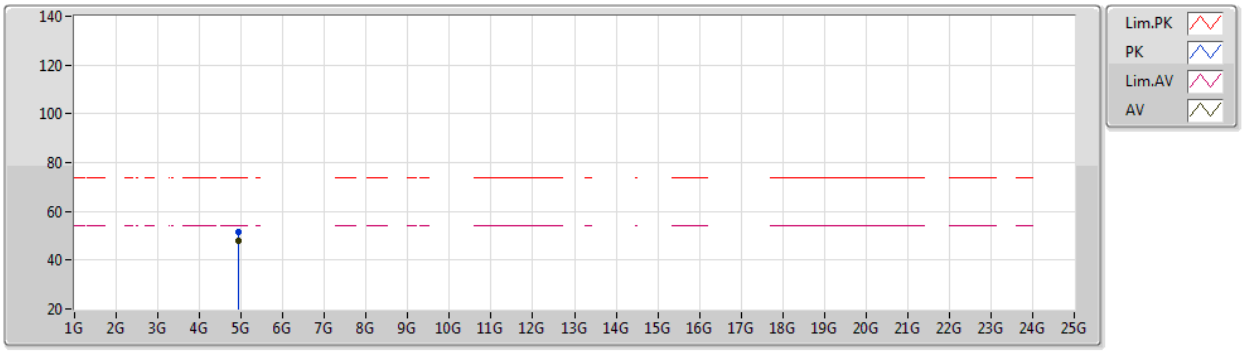
EUT Y_1TX
Setting 21
01-F-K-5

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	4.92403G	46.63	74.00	-27.37	43.43	3	Vertical	240	1.89	-	32.64	5.06	34.50
AV	4.92395G	36.50	54.00	-17.50	33.30	3	Vertical	240	1.89	-	32.64	5.06	34.50

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

23/03/2021



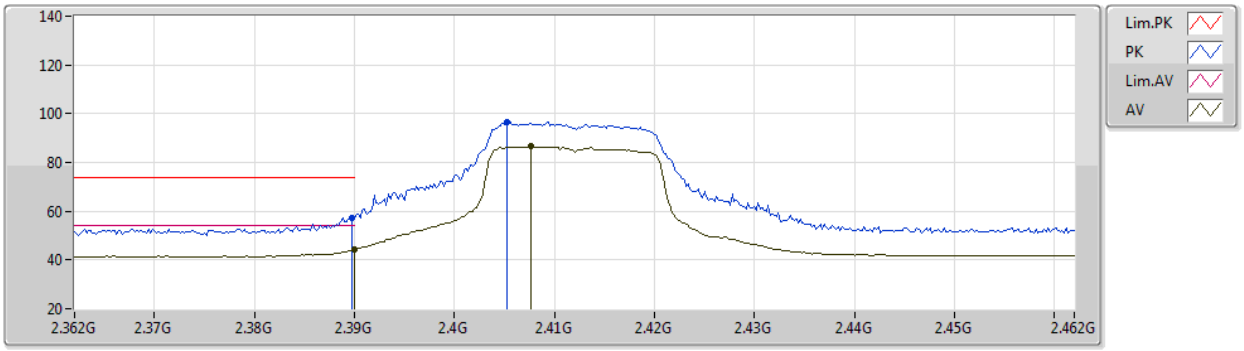
EUT Y_1TX
Setting 21
01-F-K-5

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	4.92406G	51.68	74.00	-22.32	48.48	3	Horizontal	270	2.58	-	32.64	5.06	34.50
AV	4.92397G	47.72	54.00	-6.28	44.52	3	Horizontal	270	2.58	-	32.64	5.06	34.50

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

23/03/2021



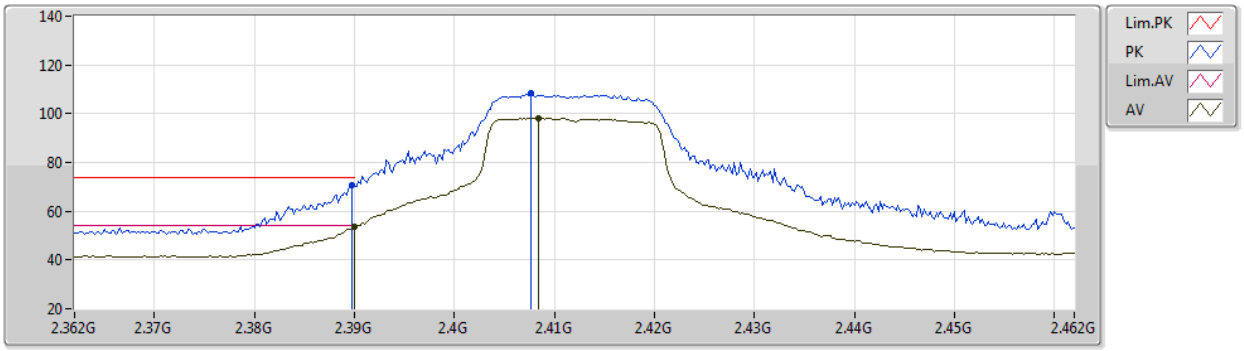
EUT Y_1TX
Setting 19
01-F-K-5

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	57.50	74.00	-16.50	27.93	3	Vertical	156	1.55	-	27.38	2.19	-
AV	2.39G	44.21	54.00	-9.79	14.64	3	Vertical	156	1.55	-	27.38	2.19	-
PK	2.4052G	96.50	Inf	-Inf	66.88	3	Vertical	156	1.55	-	27.41	2.21	-
AV	2.4076G	86.61	Inf	-Inf	56.98	3	Vertical	156	1.55	-	27.42	2.21	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

23/03/2021



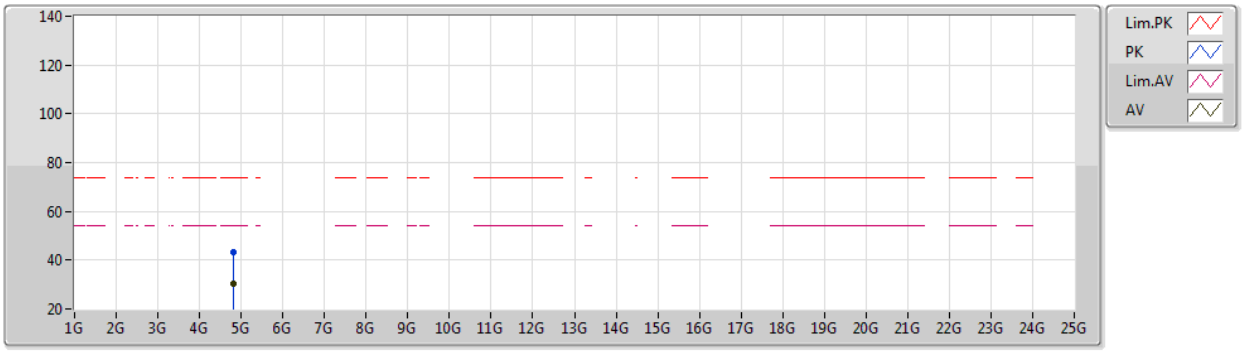
EUT Y_1TX
Setting 19
01-F-K-5

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	70.46	74.00	-3.54	40.89	3	Horizontal	203	1.67	-	27.38	2.19	-
AV	2.39G	53.81	54.00	-0.19	24.24	3	Horizontal	203	1.67	-	27.38	2.19	-
PK	2.4076G	108.24	Inf	-Inf	78.61	3	Horizontal	203	1.67	-	27.42	2.21	-
AV	2.4084G	98.12	Inf	-Inf	68.49	3	Horizontal	203	1.67	-	27.42	2.21	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

23/03/2021



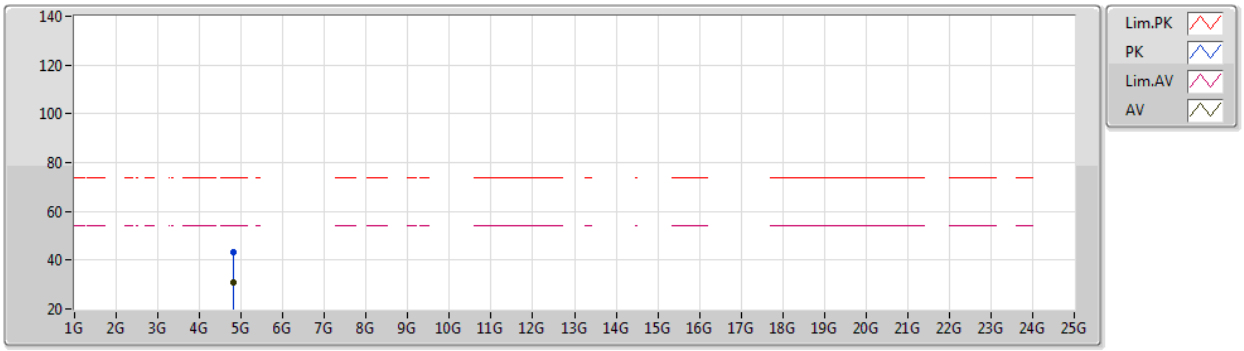
EUT Y_1TX
Setting 19
01-F-K-5

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	4.82558G	43.42	74.00	-30.58	40.71	3	Vertical	129	1.00	-	32.25	5.01	34.55
AV	4.8284G	30.12	54.00	-23.88	27.39	3	Vertical	129	1.00	-	32.27	5.01	34.55

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

23/03/2021



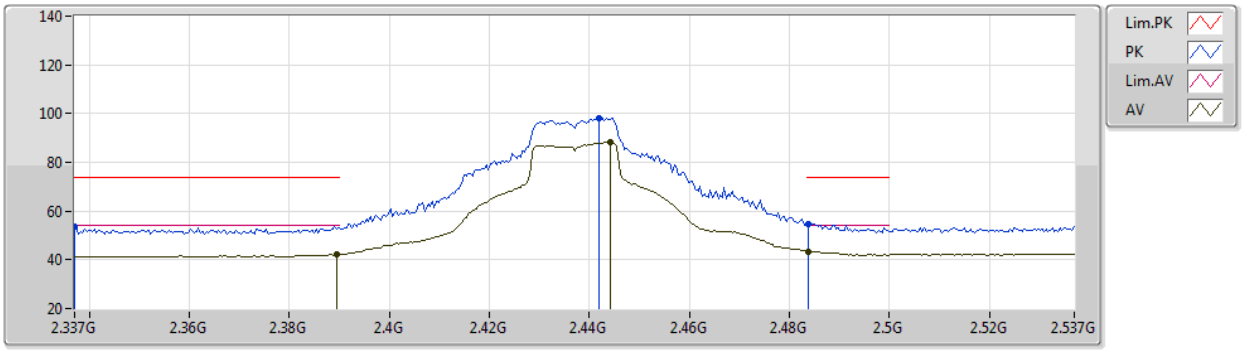
EUT Y_1TX
Setting 19
01-F-K-5

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	4.82634G	43.48	74.00	-30.52	40.76	3	Horizontal	254	1.80	-	32.26	5.01	34.55
AV	4.82804G	30.67	54.00	-23.33	27.94	3	Horizontal	254	1.80	-	32.27	5.01	34.55

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

23/03/2021



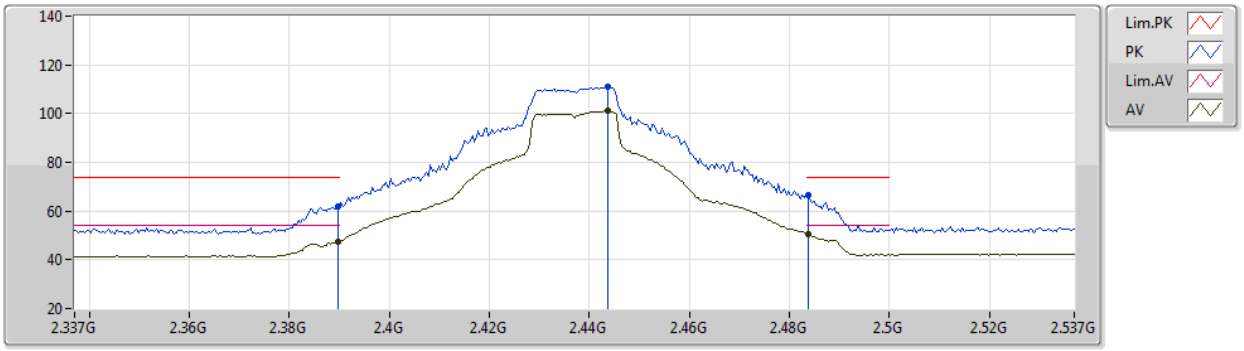
EUT Y_1TX
Setting 21
01-F-K-5

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	2.337G	53.74	74.00	-20.26	24.30	3	Vertical	82	1.73	-	27.30	2.14	-
AV	2.3894G	42.05	54.00	-11.95	12.48	3	Vertical	82	1.73	-	27.38	2.19	-
PK	2.4418G	98.02	Inf	-Inf	68.30	3	Vertical	82	1.73	-	27.48	2.24	-
AV	2.4442G	88.23	Inf	-Inf	58.50	3	Vertical	82	1.73	-	27.49	2.24	-
PK	2.4838G	54.83	74.00	-19.17	24.85	3	Vertical	82	1.73	-	27.70	2.28	-
AV	2.4838G	43.45	54.00	-10.55	13.47	3	Vertical	82	1.73	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

23/03/2021



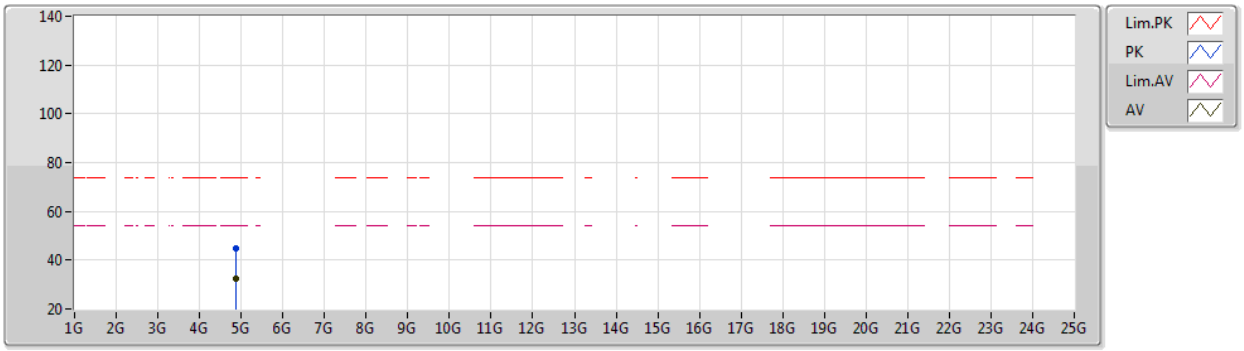
EUT Y_1TX
Setting 21
01-F-K-5

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	61.70	74.00	-12.30	32.13	3	Horizontal	195	1.65	-	27.38	2.19	-
AV	2.3898G	47.41	54.00	-6.59	17.84	3	Horizontal	195	1.65	-	27.38	2.19	-
PK	2.4438G	111.02	Inf	-Inf	81.29	3	Horizontal	195	1.65	-	27.49	2.24	-
AV	2.4438G	101.05	Inf	-Inf	71.32	3	Horizontal	195	1.65	-	27.49	2.24	-
PK	2.4838G	66.79	74.00	-7.21	36.81	3	Horizontal	195	1.65	-	27.70	2.28	-
AV	2.4838G	50.58	54.00	-3.42	20.60	3	Horizontal	195	1.65	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

23/03/2021



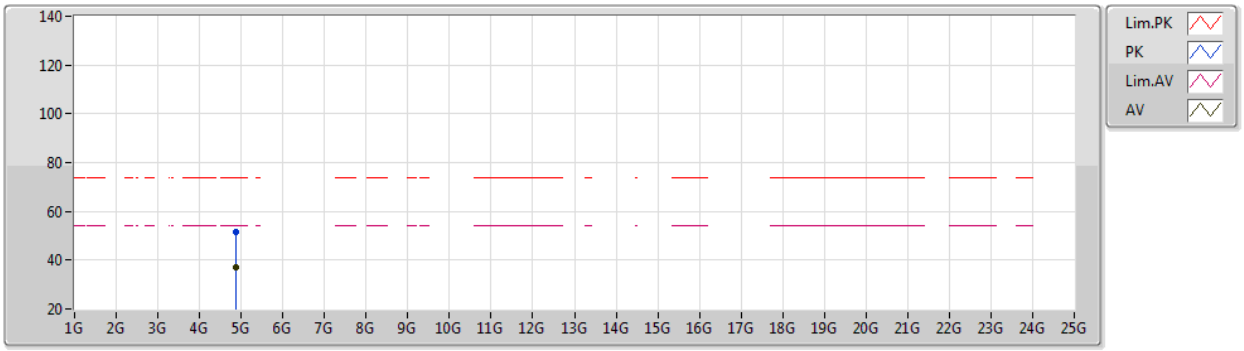
EUT Y_1TX
Setting 21
01-F-K-5

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	4.8728G	44.61	74.00	-29.39	41.65	3	Vertical	144	2.42	-	32.45	5.04	34.53
AV	4.8728G	32.37	54.00	-21.63	29.41	3	Vertical	144	2.42	-	32.45	5.04	34.53

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

23/03/2021



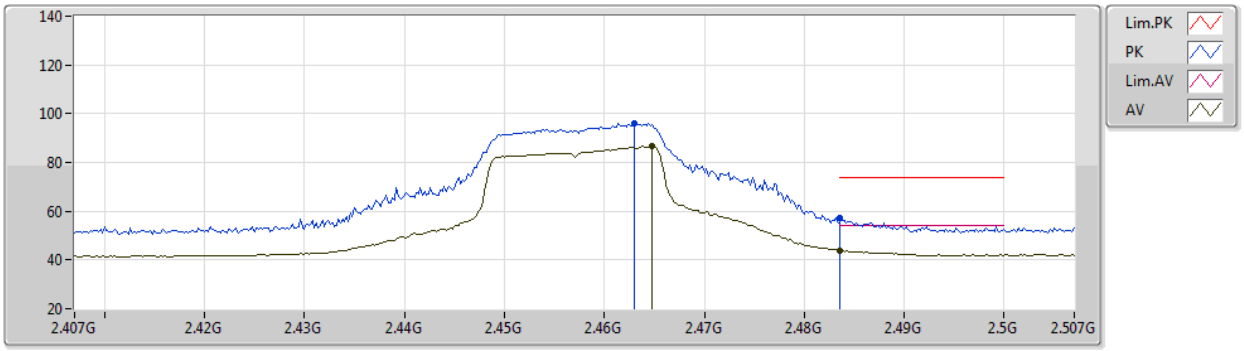
EUT Y_1TX
Setting 21
01-F-K-5

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	4.8752G	51.79	74.00	-22.21	48.82	3	Horizontal	273	2.59	-	32.45	5.04	34.52
AV	4.87166G	36.83	54.00	-17.17	33.88	3	Horizontal	273	2.59	-	32.44	5.04	34.53

802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX

23/03/2021



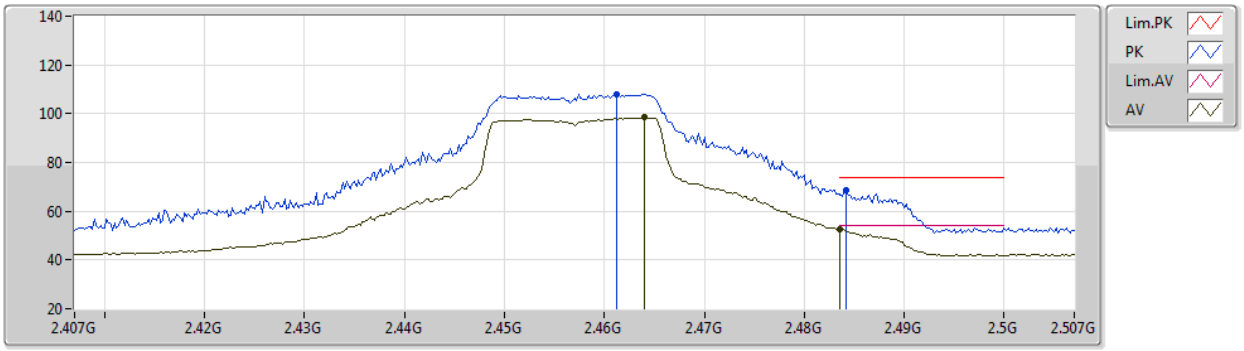
EUT Y_1TX
Setting 20
01-F-K-5

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	96.24	Inf	-Inf	66.40	3	Vertical	123	1.79	-	27.58	2.26	-
AV	2.4648G	86.74	Inf	-Inf	56.89	3	Vertical	123	1.79	-	27.59	2.26	-
PK	2.4836G	57.27	74.00	-16.73	27.29	3	Vertical	123	1.79	-	27.70	2.28	-
AV	2.4835G	44.02	54.00	-9.98	14.04	3	Vertical	123	1.79	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX

23/03/2021



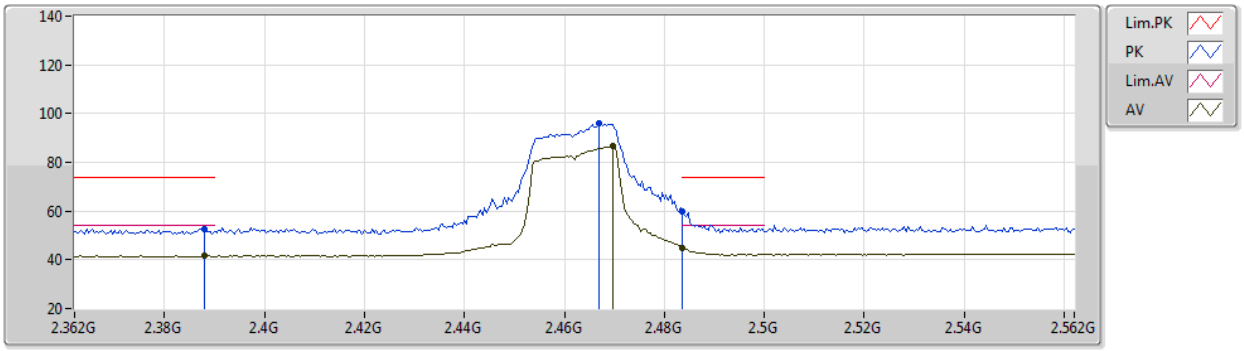
EUT Y_1TX
Setting 20
01-F-K-5

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	2.4612G	108.17	Inf	-Inf	78.34	3	Horizontal	199	1.74	-	27.57	2.26	-
AV	2.464G	98.42	Inf	-Inf	68.58	3	Horizontal	199	1.74	-	27.58	2.26	-
PK	2.4842G	68.54	74.00	-5.46	38.55	3	Horizontal	199	1.74	-	27.71	2.28	-
AV	2.4835G	52.68	54.00	-1.32	22.70	3	Horizontal	199	1.74	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

23/03/2021



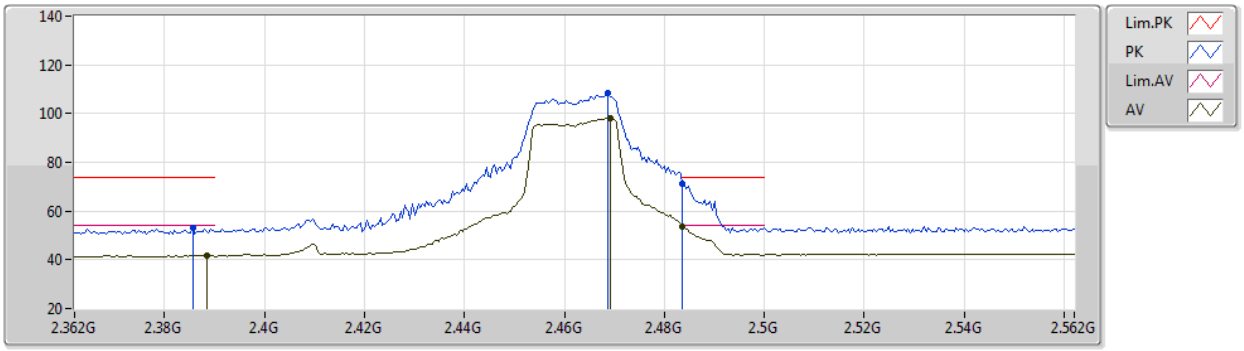
EUT Y_1TX
Setting 18
01-F-K-5

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	2.388G	52.74	74.00	-21.26	23.17	3	Vertical	120	1.80	-	27.38	2.19	-
AV	2.388G	41.60	54.00	-12.40	12.03	3	Vertical	120	1.80	-	27.38	2.19	-
PK	2.4668G	95.89	Inf	-Inf	66.02	3	Vertical	120	1.80	-	27.60	2.27	-
AV	2.4696G	86.48	Inf	-Inf	56.59	3	Vertical	120	1.80	-	27.62	2.27	-
PK	2.4835G	59.72	74.00	-14.28	29.74	3	Vertical	120	1.80	-	27.70	2.28	-
AV	2.4835G	45.01	54.00	-8.99	15.03	3	Vertical	120	1.80	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

23/03/2021



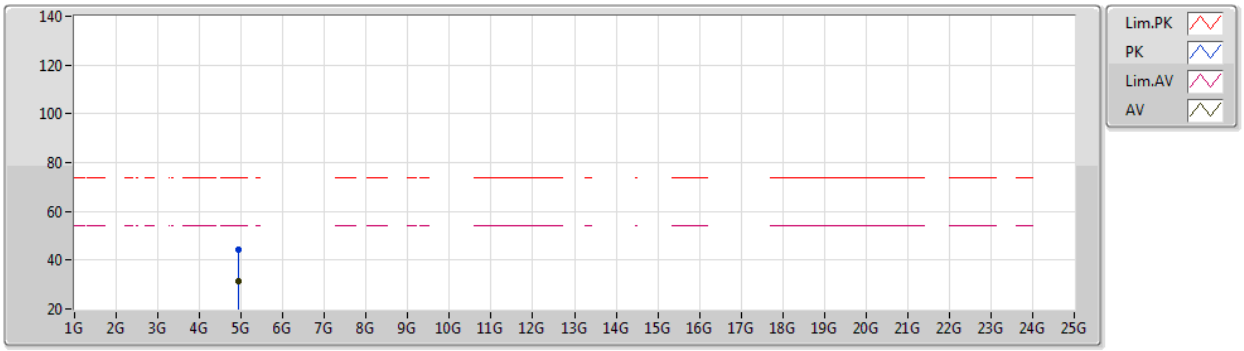
EUT Y_1TX
Setting 18
01-F-K-5

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	2.3856G	52.91	74.00	-21.09	23.35	3	Horizontal	202	1.58	-	27.37	2.19	-
AV	2.3884G	41.67	54.00	-12.33	12.10	3	Horizontal	202	1.58	-	27.38	2.19	-
PK	2.4688G	108.51	Inf	-Inf	78.63	3	Horizontal	202	1.58	-	27.61	2.27	-
AV	2.4692G	97.94	Inf	-Inf	68.05	3	Horizontal	202	1.58	-	27.62	2.27	-
PK	2.4835G	71.25	74.00	-2.75	41.27	3	Horizontal	202	1.58	-	27.70	2.28	-
AV	2.4835G	53.68	54.00	-0.32	23.70	3	Horizontal	202	1.58	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

23/03/2021



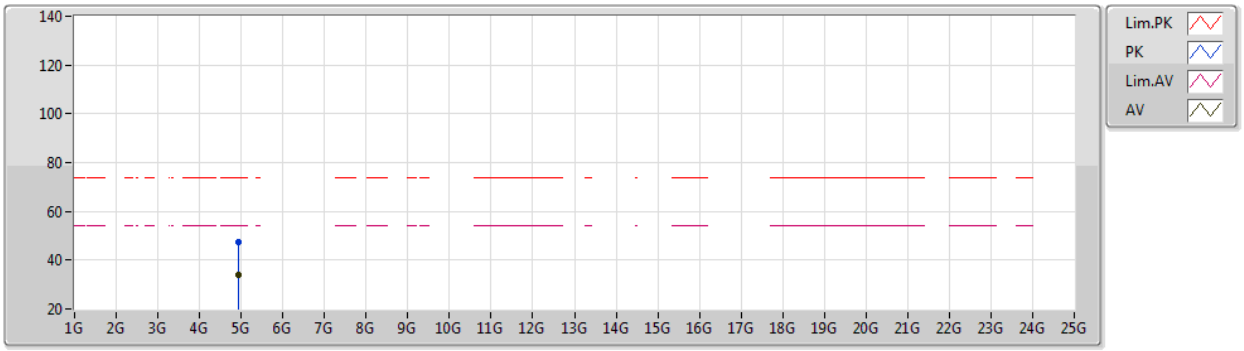
EUT Y_1TX
Setting 18
01-F-K-5

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	4.92754G	44.24	74.00	-29.76	41.01	3	Vertical	126	1.22	-	32.67	5.06	34.50
AV	4.92848G	31.28	54.00	-22.72	28.05	3	Vertical	126	1.22	-	32.67	5.06	34.50

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

23/03/2021



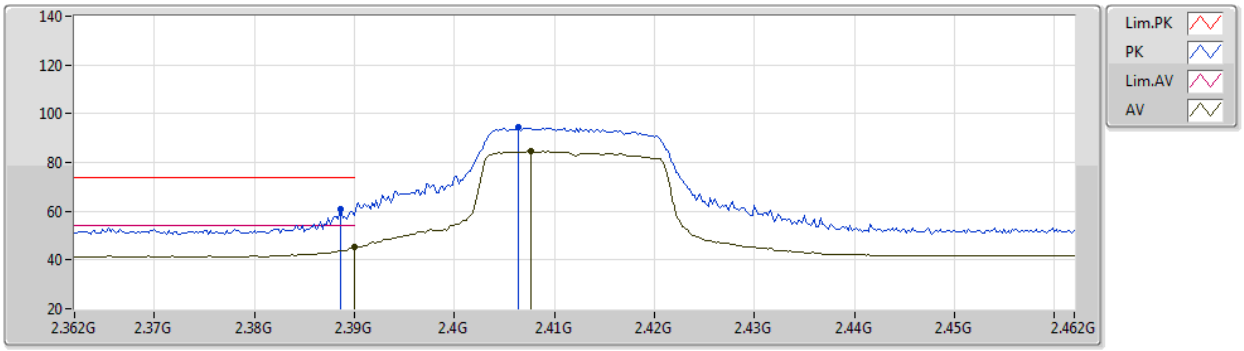
EUT Y_1TX
Setting 18
01-F-K-5

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	4.92428G	47.26	74.00	-26.74	44.05	3	Horizontal	266	2.97	-	32.65	5.06	34.50
AV	4.92474G	34.02	54.00	-19.98	30.81	3	Horizontal	266	2.97	-	32.65	5.06	34.50

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

23/03/2021



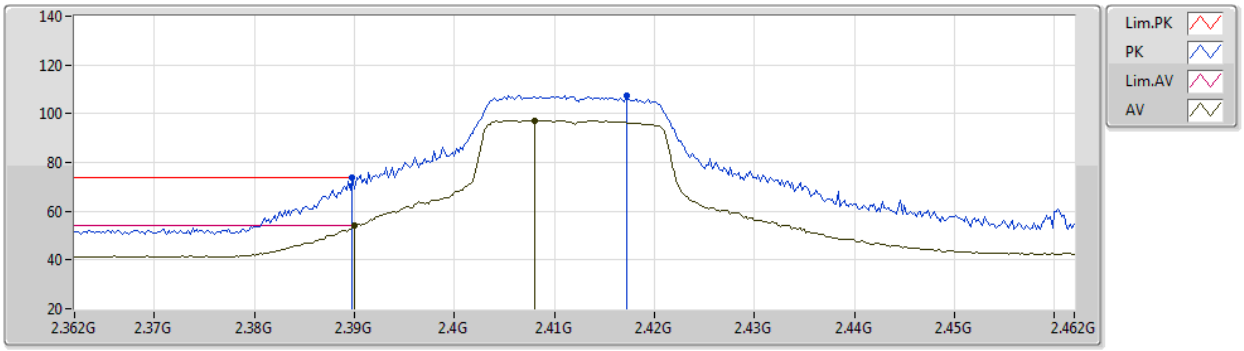
EUT Y_1TX
Setting 18.5
01-F-K-5

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	61.04	74.00	-12.96	31.47	3	Vertical	239	1.00	-	27.38	2.19	-
AV	2.39G	45.24	54.00	-8.76	15.67	3	Vertical	239	1.00	-	27.38	2.19	-
PK	2.4064G	94.34	Inf	-Inf	64.72	3	Vertical	239	1.00	-	27.41	2.21	-
AV	2.4076G	84.71	Inf	-Inf	55.08	3	Vertical	239	1.00	-	27.42	2.21	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

23/03/2021



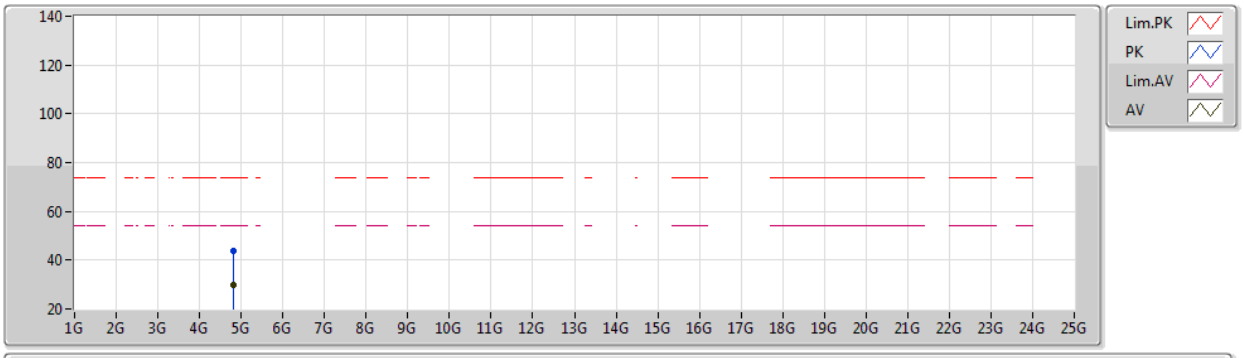
EUT Y_1TX
Setting 18.5
01-F-K-5

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	73.57	74.00	-0.43	44.00	3	Horizontal	200	1.68	-	27.38	2.19	-
AV	2.39G	53.96	54.00	-0.04	24.39	3	Horizontal	200	1.68	-	27.38	2.19	-
PK	2.4172G	107.38	Inf	-Inf	77.73	3	Horizontal	200	1.68	-	27.43	2.22	-
AV	2.408G	97.17	Inf	-Inf	67.54	3	Horizontal	200	1.68	-	27.42	2.21	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

23/03/2021



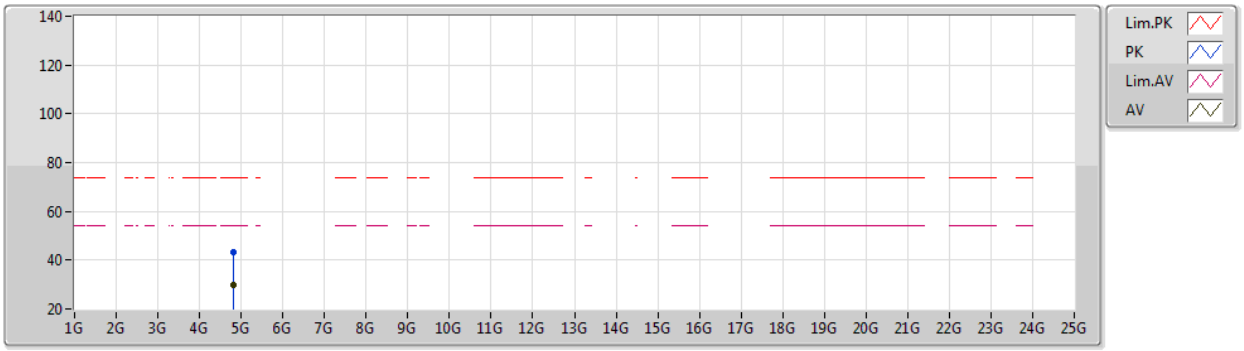
EUT Y_1TX
Setting 18.5
01-F-K-5

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	4.8241G	43.61	74.00	-30.39	40.91	3	Vertical	223	1.11	-	32.24	5.01	34.55
AV	4.82373G	30.04	54.00	-23.96	27.34	3	Vertical	223	1.11	-	32.24	5.01	34.55

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

23/03/2021



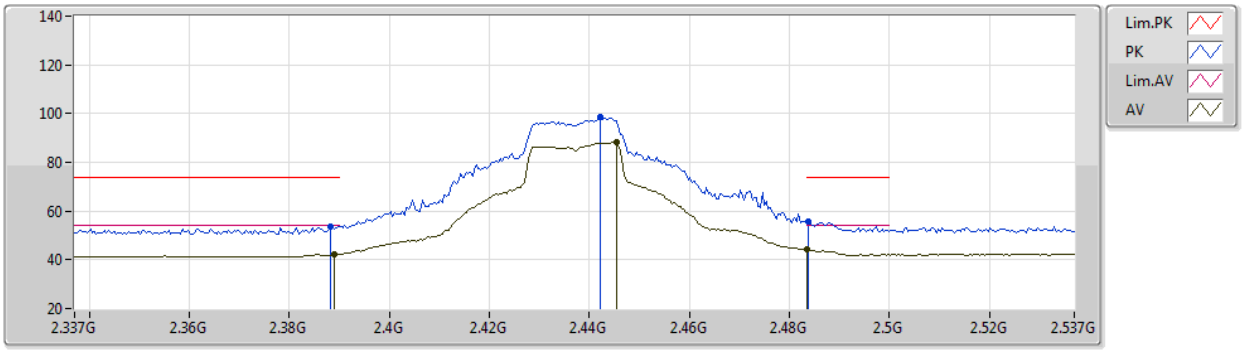
EUT Y_1TX
Setting 18.5
01-F-K-5

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	4.82492G	43.24	74.00	-30.76	40.53	3	Horizontal	31	1.01	-	32.25	5.01	34.55
AV	4.82371G	30.04	54.00	-23.96	27.34	3	Horizontal	31	1.01	-	32.24	5.01	34.55

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

23/03/2021



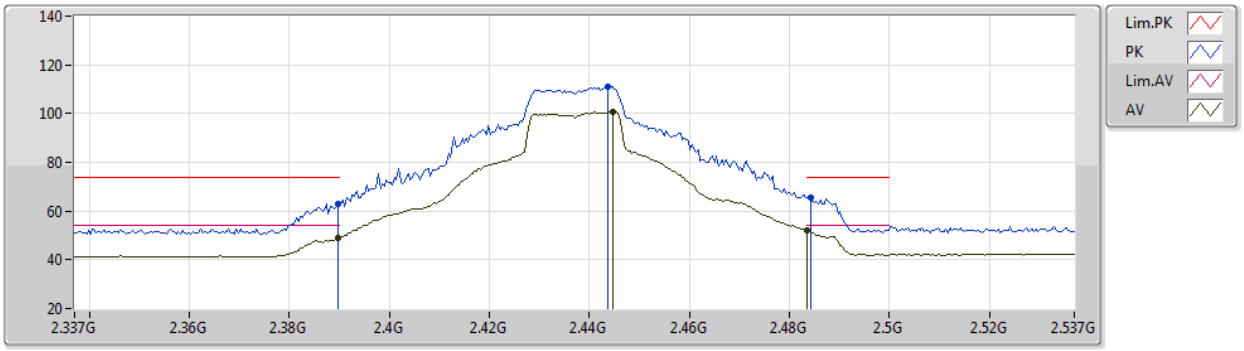
EUT Y_1TX
Setting 21
01-F-K-5

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	2.3882G	53.75	74.00	-20.25	24.18	3	Vertical	82	1.74	-	27.38	2.19	-
AV	2.389G	42.21	54.00	-11.79	12.64	3	Vertical	82	1.74	-	27.38	2.19	-
PK	2.4422G	98.44	Inf	-Inf	68.72	3	Vertical	82	1.74	-	27.48	2.24	-
AV	2.4454G	88.06	Inf	-Inf	58.32	3	Vertical	82	1.74	-	27.49	2.25	-
PK	2.4838G	55.75	74.00	-18.25	25.77	3	Vertical	82	1.74	-	27.70	2.28	-
AV	2.4835G	44.22	54.00	-9.78	14.24	3	Vertical	82	1.74	-	27.70	2.28	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

23/03/2021



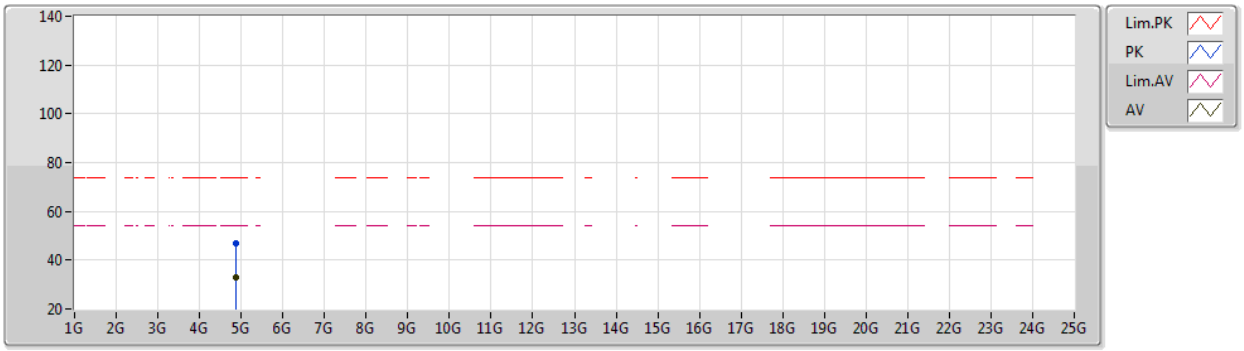
EUT Y_1TX
Setting 21
01-F-K-5

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	63.16	74.00	-10.84	33.59	3	Horizontal	199	1.64	-	27.38	2.19	-
AV	2.3898G	49.01	54.00	-4.99	19.44	3	Horizontal	199	1.64	-	27.38	2.19	-
PK	2.4438G	110.89	Inf	-Inf	81.16	3	Horizontal	199	1.64	-	27.49	2.24	-
AV	2.4446G	100.75	Inf	-Inf	71.02	3	Horizontal	199	1.64	-	27.49	2.24	-
PK	2.4842G	65.71	74.00	-8.29	35.72	3	Horizontal	199	1.64	-	27.71	2.28	-
AV	2.4835G	51.95	54.00	-2.05	21.97	3	Horizontal	199	1.64	-	27.70	2.28	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

23/03/2021



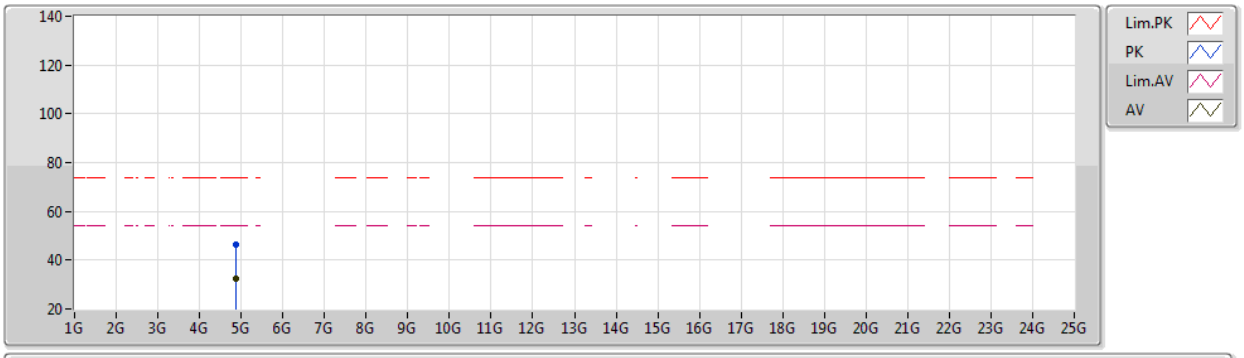
EUT Y_1TX
Setting 21
01-F-K-5

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	4.87383G	46.68	74.00	-27.32	43.72	3	Vertical	139	2.45	-	32.45	5.04	34.53
AV	4.8736G	32.81	54.00	-21.19	29.85	3	Vertical	139	2.45	-	32.45	5.04	34.53

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

23/03/2021



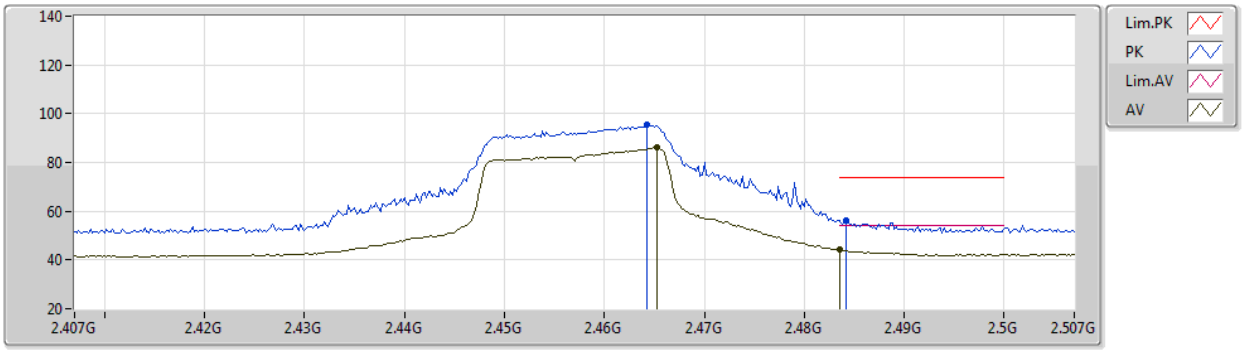
EUT Y_1TX
Setting 21
01-F-K-5

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	4.87469G	46.37	74.00	-27.63	43.41	3	Horizontal	310	3.00	-	32.45	5.04	34.53
AV	4.87451G	32.50	54.00	-21.50	29.54	3	Horizontal	310	3.00	-	32.45	5.04	34.53

802.11n HT20_Nss1,(MCS0)_1TX

2457MHz_TX

23/03/2021



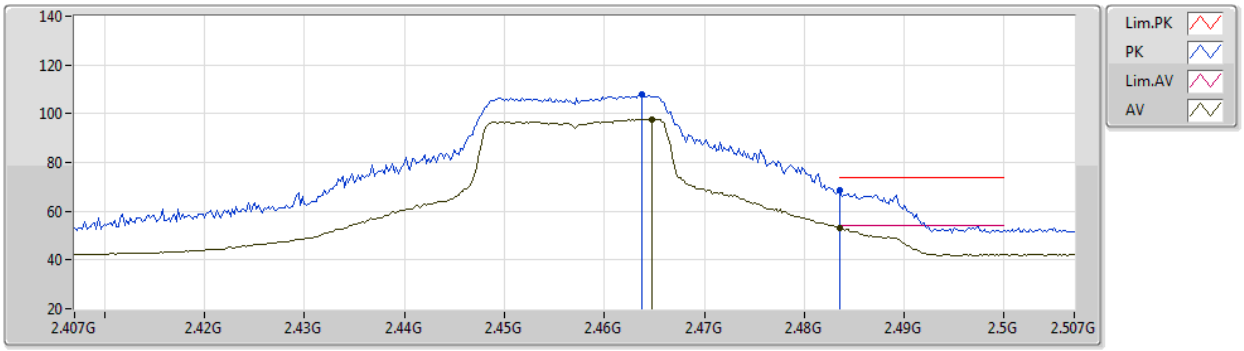
EUT Y_1TX
Setting 19.5
01-F-K-5

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	2.4642G	95.46	Inf	-Inf	65.61	3	Vertical	121	1.80	-	27.59	2.26	-
AV	2.4652G	86.08	Inf	-Inf	56.22	3	Vertical	121	1.80	-	27.59	2.27	-
PK	2.4842G	56.45	74.00	-17.55	26.46	3	Vertical	121	1.80	-	27.71	2.28	-
AV	2.4835G	44.08	54.00	-9.92	14.10	3	Vertical	121	1.80	-	27.70	2.28	-

802.11n HT20_Nss1,(MCS0)_1TX

2457MHz_TX

23/03/2021



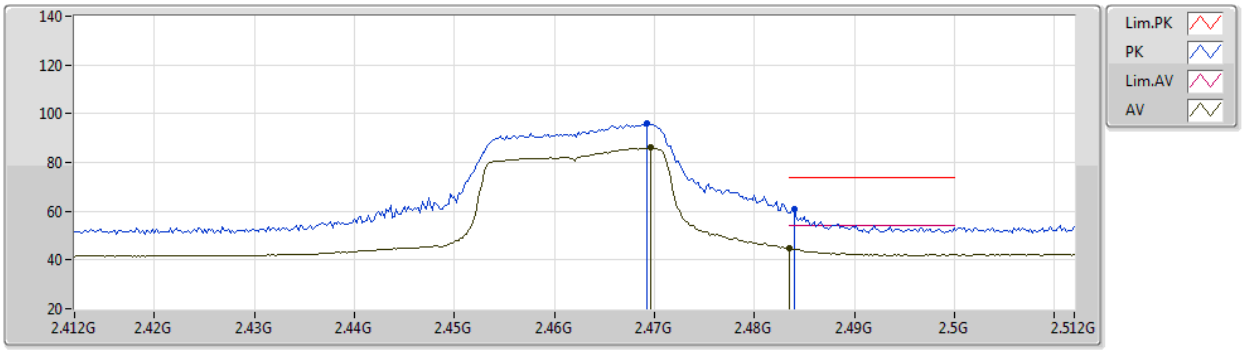
EUT Y_1TX
Setting 19.5
01-F-K-5

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	2.4638G	107.85	Inf	-Inf	78.01	3	Horizontal	201	1.62	-	27.58	2.26	-
AV	2.4648G	97.78	Inf	-Inf	67.93	3	Horizontal	201	1.62	-	27.59	2.26	-
PK	2.4835G	68.72	74.00	-5.28	38.74	3	Horizontal	201	1.62	-	27.70	2.28	-
AV	2.4836G	53.11	54.00	-0.89	23.13	3	Horizontal	201	1.62	-	27.70	2.28	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

23/03/2021



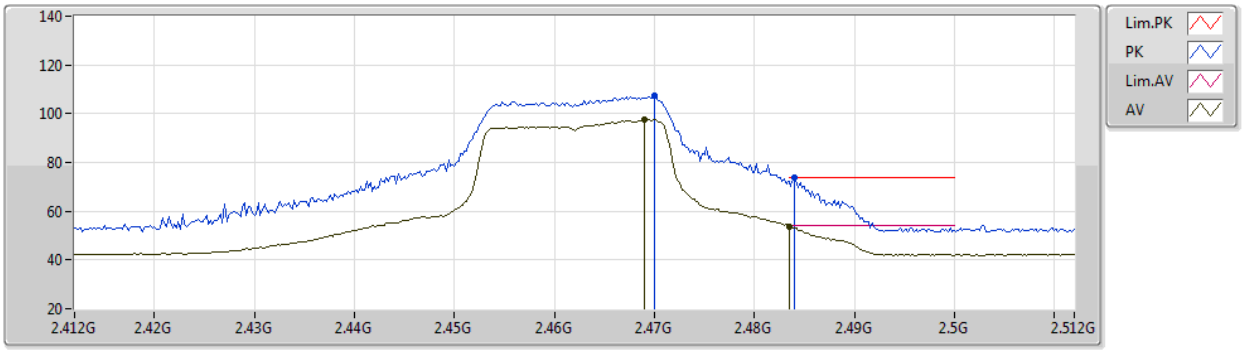
EUT Y_1TX
Setting 17.5
01-F-K-5

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	2.4692G	96.27	Inf	-Inf	66.38	3	Vertical	121	1.79	-	27.62	2.27	-
AV	2.4696G	85.98	Inf	-Inf	56.09	3	Vertical	121	1.79	-	27.62	2.27	-
PK	2.484G	61.06	74.00	-12.94	31.08	3	Vertical	121	1.79	-	27.70	2.28	-
AV	2.4835G	44.58	54.00	-9.42	14.60	3	Vertical	121	1.79	-	27.70	2.28	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

23/03/2021



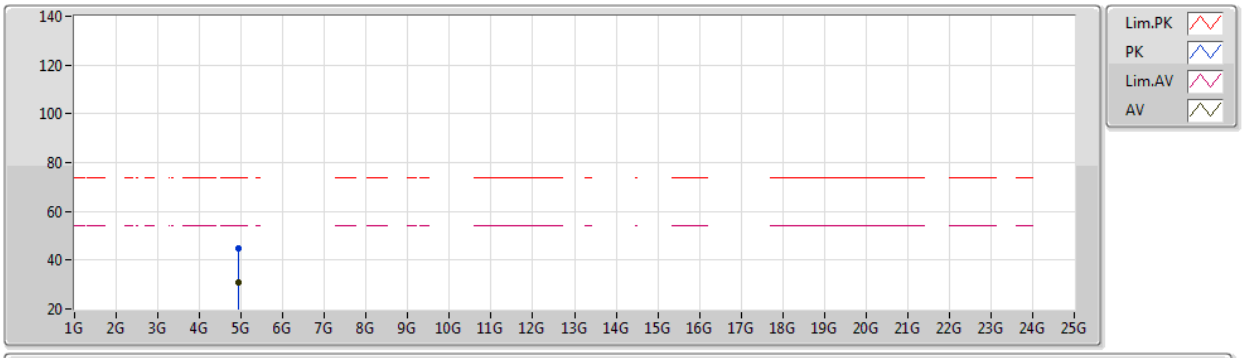
EUT Y_1TX
Setting 17.5
01-F-K-5

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	2.47G	107.42	Inf	-Inf	77.53	3	Horizontal	204	1.60	-	27.62	2.27	-
AV	2.469G	97.46	Inf	-Inf	67.58	3	Horizontal	204	1.60	-	27.61	2.27	-
PK	2.484G	73.55	74.00	-0.45	43.57	3	Horizontal	204	1.60	-	27.70	2.28	-
AV	2.4835G	53.79	54.00	-0.21	23.81	3	Horizontal	204	1.60	-	27.70	2.28	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

23/03/2021



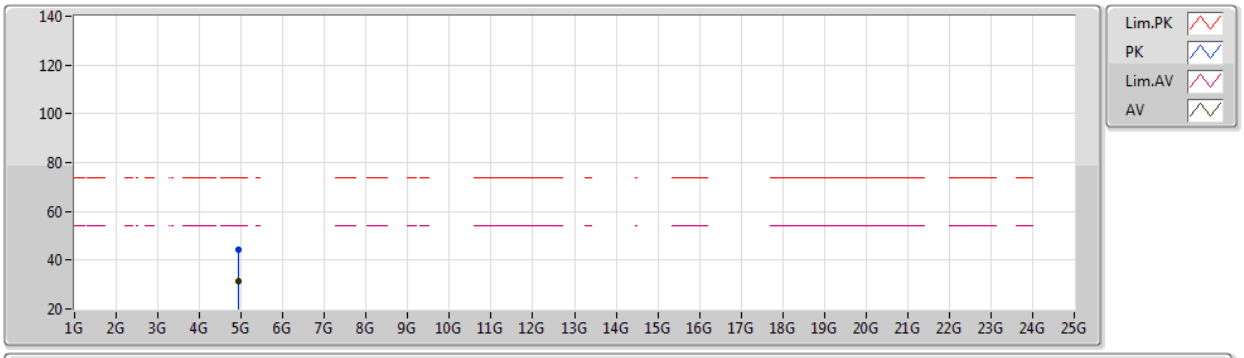
EUT Y_1TX
Setting 17.5
01-F-K-5

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	4.92361G	44.75	74.00	-29.25	41.55	3	Vertical	196	2.52	-	32.64	5.06	34.50
AV	4.92406G	31.07	54.00	-22.93	27.87	3	Vertical	196	2.52	-	32.64	5.06	34.50

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

23/03/2021



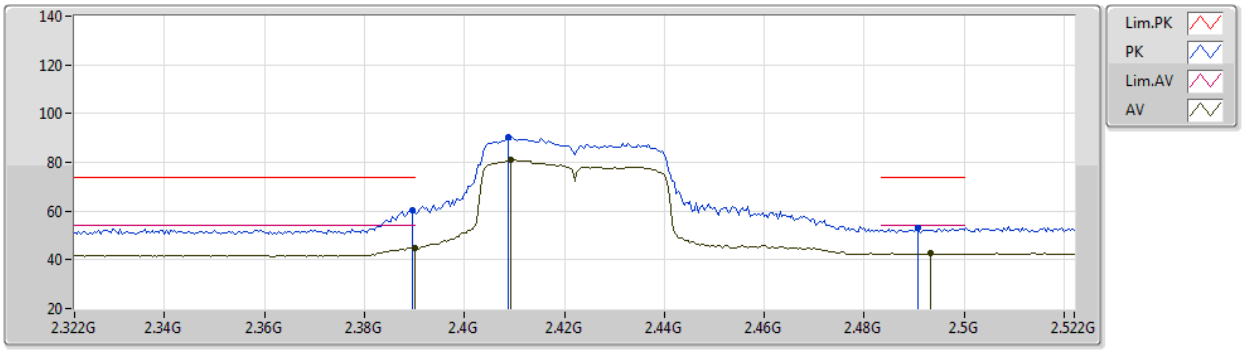
EUT Y_1TX
Setting 17.5
01-F-K-5

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	4.92306G	44.18	74.00	-29.82	40.98	3	Horizontal	84	2.02	-	32.64	5.06	34.50
AV	4.92445G	31.14	54.00	-22.86	27.93	3	Horizontal	84	2.02	-	32.65	5.06	34.50

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

23/03/2021



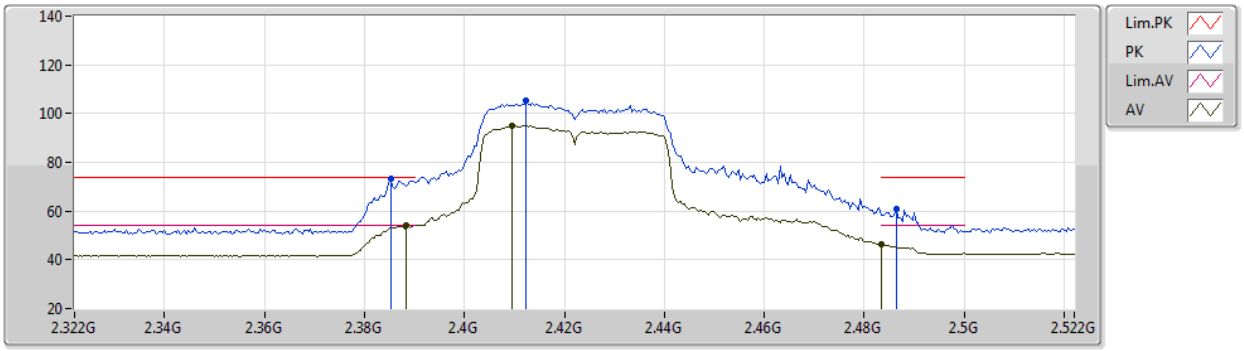
EUT Y_1TX
Setting 18
01-F-K-5

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	60.44	74.00	-13.56	30.87	3	Vertical	260	1.17	-	27.38	2.19	-
AV	2.39G	44.99	54.00	-9.01	15.42	3	Vertical	260	1.17	-	27.38	2.19	-
PK	2.4088G	90.42	Inf	-Inf	60.79	3	Vertical	260	1.17	-	27.42	2.21	-
AV	2.4092G	80.98	Inf	-Inf	51.35	3	Vertical	260	1.17	-	27.42	2.21	-
PK	2.4908G	52.91	74.00	-21.09	22.88	3	Vertical	260	1.17	-	27.74	2.29	-
AV	2.4932G	42.59	54.00	-11.41	12.54	3	Vertical	260	1.17	-	27.76	2.29	-

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

23/03/2021



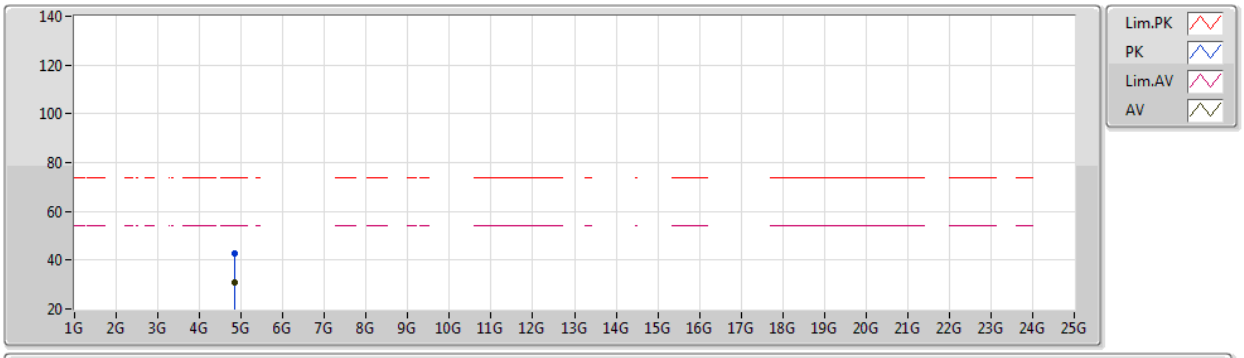
EUT Y_1TX
Setting 18
01-F-K-5

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	73.03	74.00	-0.97	43.47	3	Horizontal	199	1.69	-	27.37	2.19	-
AV	2.3884G	53.97	54.00	-0.03	24.40	3	Horizontal	199	1.69	-	27.38	2.19	-
PK	2.4124G	105.26	Inf	-Inf	75.63	3	Horizontal	199	1.69	-	27.42	2.21	-
AV	2.4096G	95.13	Inf	-Inf	65.50	3	Horizontal	199	1.69	-	27.42	2.21	-
PK	2.4864G	60.92	74.00	-13.08	30.91	3	Horizontal	199	1.69	-	27.72	2.29	-
AV	2.4835G	46.47	54.00	-7.53	16.49	3	Horizontal	199	1.69	-	27.70	2.28	-

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

23/03/2021



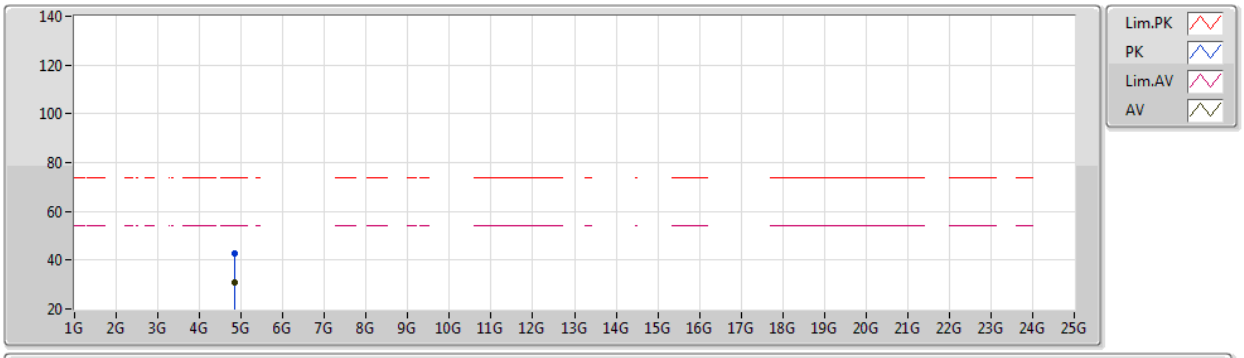
EUT Y_1TX
Setting 18
01-F-K-5

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	4.84357G	42.93	74.00	-31.07	40.09	3	Vertical	119	2.09	-	32.36	5.02	34.54
AV	4.8441G	30.71	54.00	-23.29	27.87	3	Vertical	119	2.09	-	32.36	5.02	34.54

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

23/03/2021



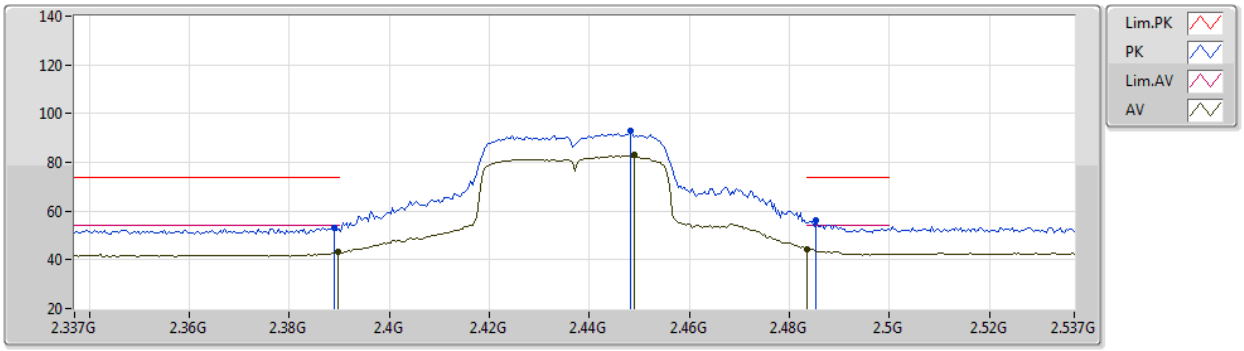
EUT Y_1TX
Setting 18
01-F-K-5

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	4.84323G	42.98	74.00	-31.02	40.14	3	Horizontal	214	2.21	-	32.36	5.02	34.54
AV	4.84303G	30.90	54.00	-23.10	28.06	3	Horizontal	214	2.21	-	32.36	5.02	34.54

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

23/03/2021



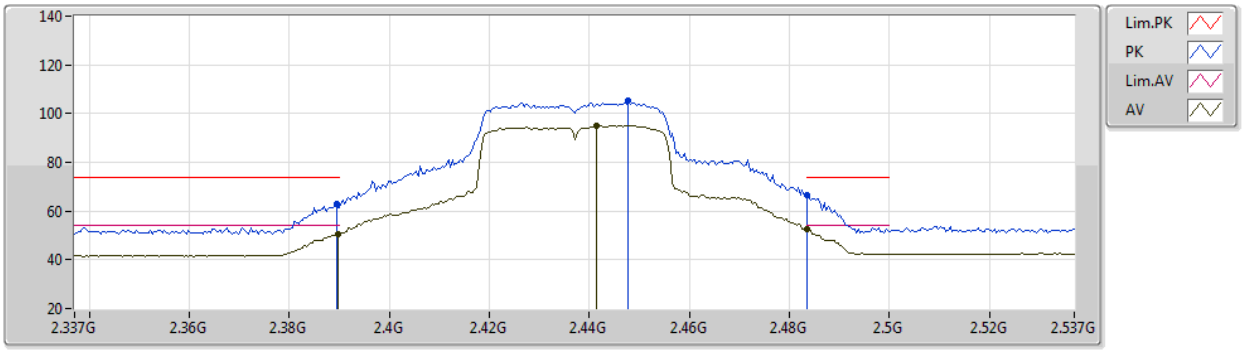
EUT Y_1TX
Setting 19
01-F-K-5

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	2.389G	53.25	74.00	-20.75	23.68	3	Vertical	83	1.73	-	27.38	2.19	-
AV	2.3898G	43.30	54.00	-10.70	13.73	3	Vertical	83	1.73	-	27.38	2.19	-
PK	2.4482G	93.07	Inf	-Inf	63.32	3	Vertical	83	1.73	-	27.50	2.25	-
AV	2.449G	82.87	Inf	-Inf	53.12	3	Vertical	83	1.73	-	27.50	2.25	-
PK	2.4854G	56.33	74.00	-17.67	26.33	3	Vertical	83	1.73	-	27.71	2.29	-
AV	2.4835G	44.52	54.00	-9.48	14.54	3	Vertical	83	1.73	-	27.70	2.28	-

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

23/03/2021



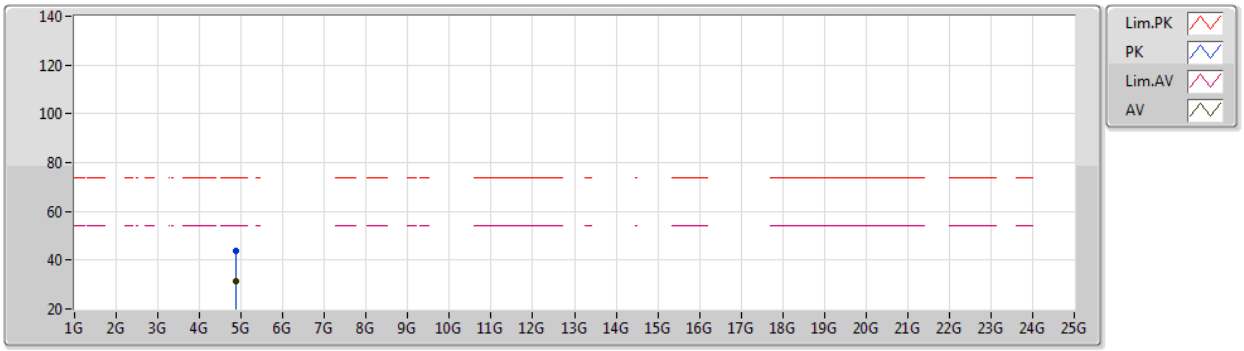
EUT Y_1TX
Setting 19
01-F-K-5

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	63.06	74.00	-10.94	33.49	3	Horizontal	196	1.61	-	27.38	2.19	-
AV	2.3898G	50.38	54.00	-3.62	20.81	3	Horizontal	196	1.61	-	27.38	2.19	-
PK	2.4478G	105.56	Inf	-Inf	75.81	3	Horizontal	196	1.61	-	27.50	2.25	-
AV	2.4414G	95.11	Inf	-Inf	65.39	3	Horizontal	196	1.61	-	27.48	2.24	-
PK	2.4835G	66.42	74.00	-7.58	36.44	3	Horizontal	196	1.61	-	27.70	2.28	-
AV	2.4835G	52.42	54.00	-1.58	22.44	3	Horizontal	196	1.61	-	27.70	2.28	-

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

23/03/2021



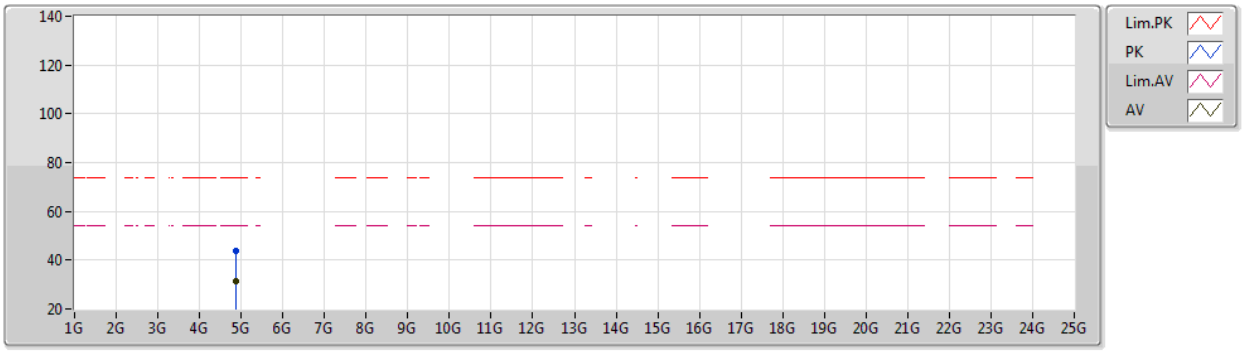
EUT Y_1TX
Setting 19
01-F-K-5

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	4.8736G	43.55	74.00	-30.45	40.59	3	Vertical	53	2.21	-	32.45	5.04	34.53
AV	4.87322G	31.29	54.00	-22.71	28.33	3	Vertical	53	2.21	-	32.45	5.04	34.53

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

23/03/2021



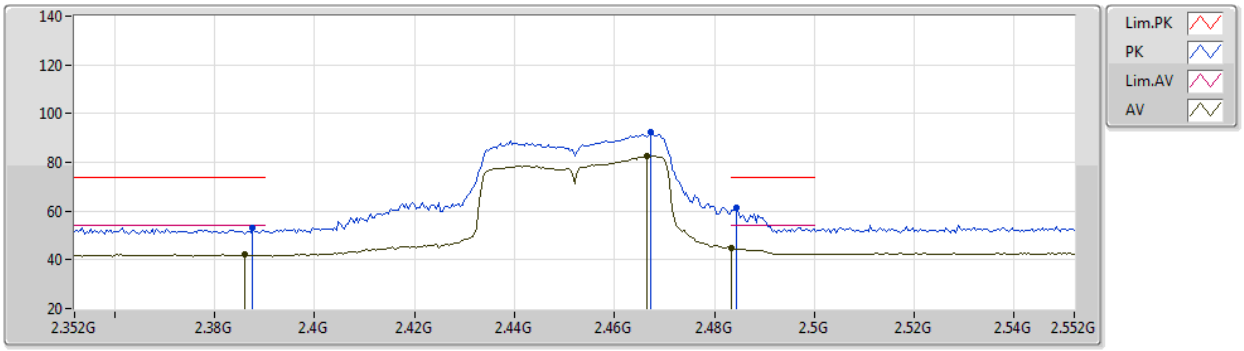
EUT Y_1TX
Setting 19
01-F-K-5

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	4.87319G	43.66	74.00	-30.34	40.70	3	Horizontal	89	1.34	-	32.45	5.04	34.53
AV	4.87461G	31.39	54.00	-22.61	28.43	3	Horizontal	89	1.34	-	32.45	5.04	34.53

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

23/03/2021



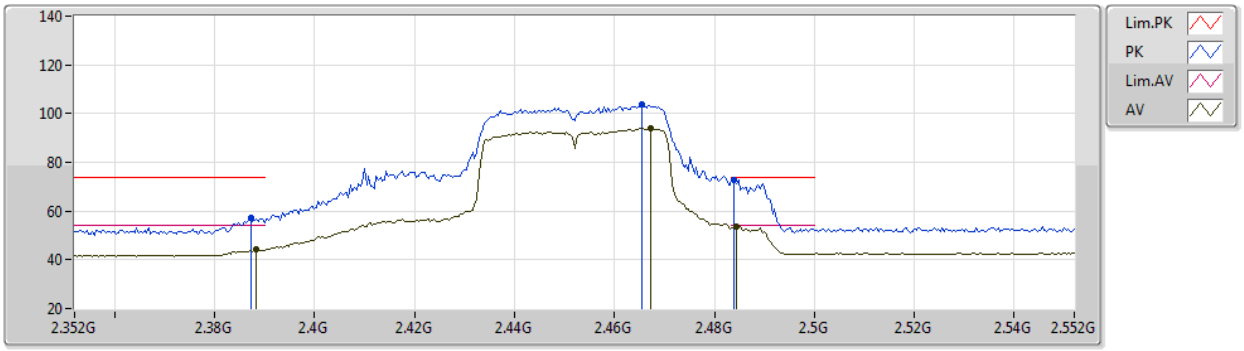
EUT Y_1TX
Setting 17.5
01-F-K-5

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	2.3876G	53.34	74.00	-20.66	23.77	3	Vertical	122	1.80	-	27.38	2.19	-
AV	2.386G	42.12	54.00	-11.88	12.56	3	Vertical	122	1.80	-	27.37	2.19	-
PK	2.4672G	92.17	Inf	-Inf	62.30	3	Vertical	122	1.80	-	27.60	2.27	-
AV	2.4664G	82.59	Inf	-Inf	52.72	3	Vertical	122	1.80	-	27.60	2.27	-
PK	2.4844G	61.23	74.00	-12.77	31.24	3	Vertical	122	1.80	-	27.71	2.28	-
AV	2.4835G	44.96	54.00	-9.04	14.98	3	Vertical	122	1.80	-	27.70	2.28	-

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

23/03/2021



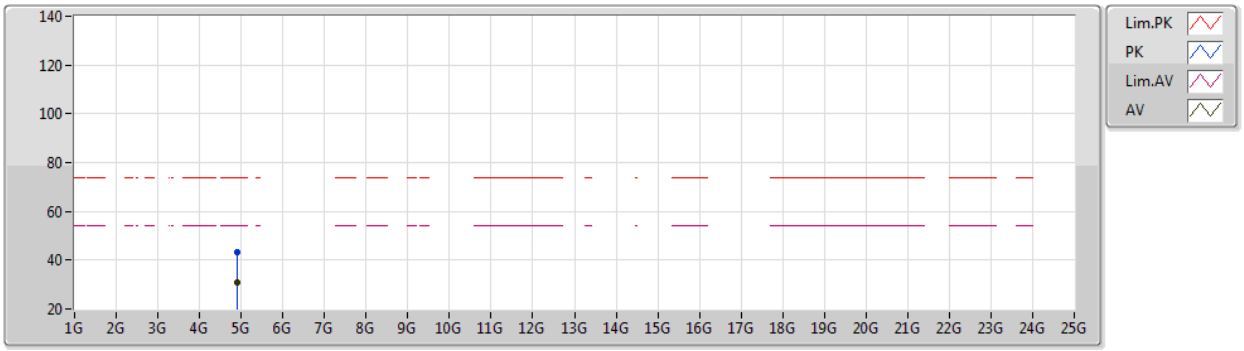
EUT Y_1TX
Setting 17.5
01-F-K-5

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	2.3872G	57.19	74.00	-16.81	27.63	3	Horizontal	204	1.75	-	27.37	2.19	-
AV	2.3884G	44.08	54.00	-9.92	14.51	3	Horizontal	204	1.75	-	27.38	2.19	-
PK	2.4656G	103.58	Inf	-Inf	73.72	3	Horizontal	204	1.75	-	27.59	2.27	-
AV	2.4672G	94.20	Inf	-Inf	64.33	3	Horizontal	204	1.75	-	27.60	2.27	-
PK	2.484G	72.83	74.00	-1.17	42.85	3	Horizontal	204	1.75	-	27.70	2.28	-
AV	2.4844G	53.59	54.00	-0.41	23.60	3	Horizontal	204	1.75	-	27.71	2.28	-

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

23/03/2021



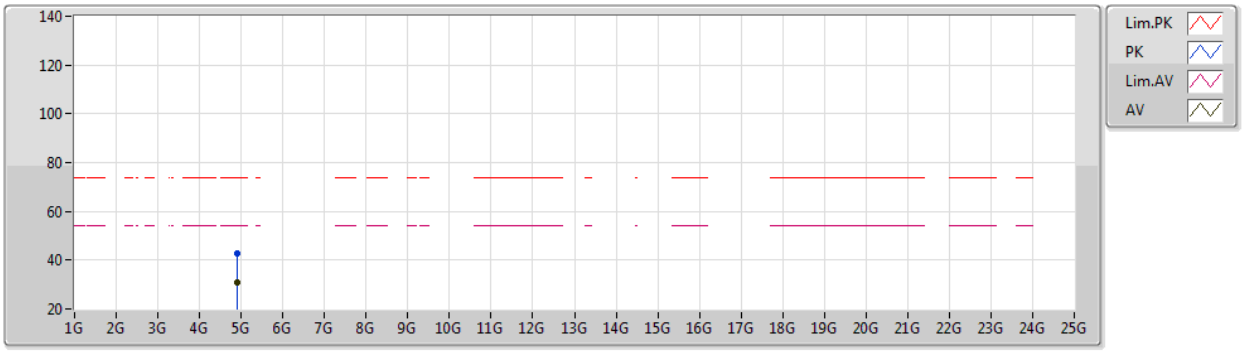
EUT Y_1TX
Setting 17.5
01-F-K-5

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	4.90384G	43.52	74.00	-30.48	40.46	3	Vertical	311	2.96	-	32.52	5.05	34.51
AV	4.90414G	30.91	54.00	-23.09	27.85	3	Vertical	311	2.96	-	32.52	5.05	34.51

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

23/03/2021



EUT Y_1TX
Setting 17.5
01-F-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	4.90338G	42.83	74.00	-31.17	39.77	3	Horizontal	197	1.14	-	32.52	5.05	34.51
AV	4.9046G	30.82	54.00	-23.18	27.75	3	Horizontal	197	1.14	-	32.53	5.05	34.51