NCC RADIO TEST REPORT

Equipment	: AC 1750 Wi-Fi 範圍擴展器
Brand Name	: tp-link
Model Name	: RE450
Applicant	: 聯洲國際有限公司 新北市板橋區中山路一段 156 號 13 樓
Manufacturer	: 普聯技術有限公司 深圳市南山區深南路科技園工業廠房 24 棟南段 1,3,4,5 層，28 棟 1-4 層
Standard	: LP0002 Section 4.10.1 (2020-07-01)

The product was received on Jul. 16, 2020, and testing was started from Jul. 27, 2020 and completed on Oct. 22, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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Photographs of EUT v01

History of this test report

Report No.	Version	Description	Issued Date
TR552242-02AA	01	Initial issue of report	Nov. 17, 2020
TR552242-02AA	02	Revise the Test Software Version on section 1.1.4	Nov. 19, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	4.10.1.4	Antenna Requirement	PASS	-
3.1	3.3	AC Power-line Conducted Emissions	PASS	-
3.2	4.10.1.6	DTS Bandwidth	PASS	-
3.3	4.10.1.2	Maximum Conducted Output Power	PASS	-
3.4	4.10.1.6	Power Spectral Density	PASS	-
3.5	4.10.1.5	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	4.10.1.5	Emissions in Restricted Frequency Bands	PASS	-
The test results of this report reference the Sporton Report No.: FR552242-02AA. After evaluating, the test results comply with the test standard LP0002 (2020-07-01).				

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: Cliff Chang
Report Producer: Vicky Huang

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

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

1.1.2 Antenna Information

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
	WLAN 2.4GHz	WLAN 5GHz					WLAN 2.4GHz	WLAN 5GHz
1	1	3	TP-LINK	3101501576	PCB	I-PEX	2	3
2	2	2	TP-LINK	3101503241	PCB	I-PEX	2	3
3	3	1	TP-LINK	3101501245	PCB	I-PEX	2	3

Note: The above information was declared by manufacturer.

For 2.4GHz WLAN function

IEEE 802.11b/g/n/VHT mode (3TX/3RX):

Port 1, port 2 and port 3 can be used as transmitting/receiving antenna.

Port 1, port 2 and port 3 could transmit/receive simultaneously.

For 5GHz WLAN function

IEEE 802.11a/n/ac mode (3TX/3RX):

Port 1, port 2 and port 3 can be used as transmitting/receiving antenna.

Port 1, port 2 and port 3 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.974	0.11	1.026m	1k
802.11g	0.959	0.18	833.75u	3k
VHT20	0.959	0.18	830u	3k
VHT40	0.961	0.17	848.75u	3k

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

1.1.4 EUT Operational Condition

EUT Power Type	From Internal power supply			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	For IEEE 802.11n/VHT in 2.4GHz and IEEE 802.11n/ac in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	DOS [ver 6.1.7601]			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT support type

Function
AP Router
Extender

Note: After evaluating, there is only the Extender selected to test and recorded in the report.

1.2 Applicable Standards

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

- NCC LP0002 (2020-07-01)
- ANSI C63.10-2013

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

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

1.3 Testing Location Information

Testing Location							
☐	HWA YA	ADD	:	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)			
		TEL	:	886-3-327-3456	FAX	:	886-3-327-0973
☒	JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.			
		TEL	:	886-3-656-9065	FAX	:	886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH02-CB	Caster Chang	23.1-25.5°C / 56-57%	Aug. 04, 2020~ Oct. 22, 2020
Radiated (Unintentional)	03CH05-CB	Owen Hsu	25.6-26.7°C / 57-61%	Jul. 27, 2020
Radiated<1GHz (Intentional)	03CH03-CB	Welson Chen	24-25.2°C / 56-58%	Oct. 19, 2020
Radiated>1GHz (Intentional)	03CH03-CB	Lance Wu	24-25.1°C / 53-58 %	Jul. 31, 2020~ Sep. 18, 2020
	03CH04-CB	Lance Wu	24.8-25.3°C / 53-55 %	Jul. 31, 2020~ Sep. 18, 2020
AC Conduction	CO01-CB	Ryo Fan	22~24°C / 59~60%	Jul. 29, 2020

Test site Designation No. TW0006 with FCC.
Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.6 dB	Confidence levels of 95%
Conducted Emission	2.8 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	0.39%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_3TX	-
2412MHz	42
2437MHz	47
2462MHz	44
802.11g_Nss1,(6Mbps)_3TX	-
2412MHz	31
2437MHz	45
2462MHz	32
VHT20_Nss1,(MCS0)_3TX	-
2412MHz	32
2437MHz	43
2462MHz	29
VHT40_Nss1,(MCS0)_3TX	-
2422MHz	26
2437MHz	33
2452MHz	27
VHT20-BF_Nss1,(MCS0)_3TX	-
2412MHz	32
2437MHz	43
2462MHz	29
VHT40-BF_Nss1,(MCS0)_3TX	-
2422MHz	26
2437MHz	33
2452MHz	27

Note:
- The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Unintentional - Normal Link
1	Extender Mode

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Intentional - CTX
	The EUT was performed at Y axis and Z axis position for Emissions in Restricted Frequency Bands intentional 1GHz~10th Harmonic test, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
1	EUT at Z-axis - 2.4GHz
2	EUT at Z axis - 5GHz
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode < 1GHz	Unintentional - Normal Link
1	Extender Mode-EUT at Y-axis
2	Extender Mode-EUT at Z-axis
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	Unintentional 1GHz~5th Harmonic
	Extender Mode-EUT at Z-axis generated the worst test result for Emissions in Restricted Frequency Bands Unintentional below 1GHz test, thus the measurement will follow this same test configuration.
1	Extender Mode-EUT at Z-axis

Operating Mode > 1GHz	CTX
The EUT was performed at Y axis and Z axis position. The worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.	
1	EUT at Z-axis

Note:
The applicant declared that the accessories of this case were for measurement only and it would not be marketed. The accessories will be provided and inspected by the laboratory (or the applicant)

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**	**Remark**
A	AC1750 Wi-Fi Range Extender (Device)	tp-link	RE450	N/A	Provided by applicant.
B	2.4G NB	DELL	E6430	N/A	Provided by Lab.
C	5G NB	DELL	E6430	N/A	Provided by Lab.
D	LAN NB	DELL	E6430	N/A	Provided by Lab.

For Radiated:
(Below 1GHz: Intentional-CTX):

Support Equipment					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
A	LAN NB	DELL	E4300	N/A	Provided by Lab.

(Below 1GHz: Unintentional-CRX and Above 1GHz: Unintentional 1GHz~5th-CRX):

Support Equipment					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
A	LAN NB	DELL	E4300	N/A	Provided by Lab.
B	2.4G NB	DELL	E4300	N/A	Provided by Lab
C	5G NB	DELL	E4300	N/A	Provided by Lab
D	AC1750 Wi-Fi Range Extender (Device)	tp-link	RE450	N/A	Provided by applicant.

(Above 1GHz: Intentional 1GHz~10th-CTX):

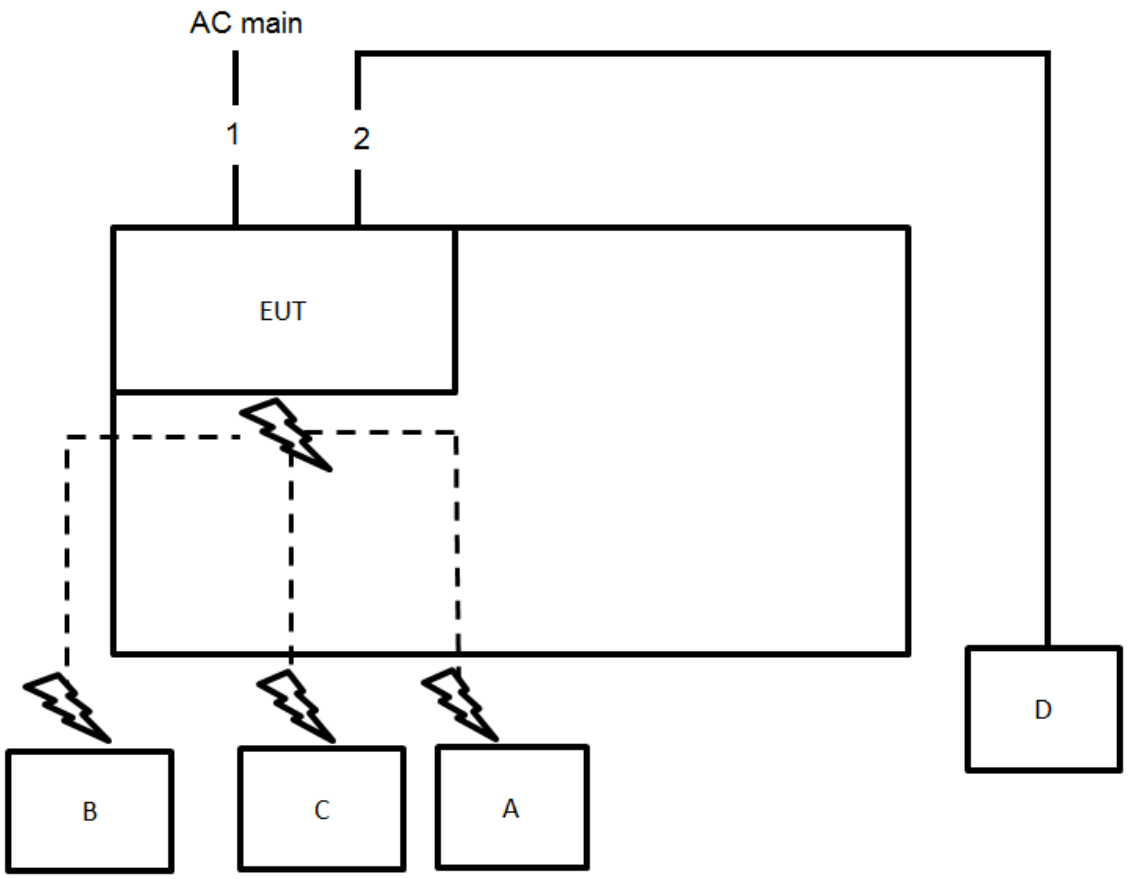
Support Equipment					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
A	NB	DELL	E4300	N/A	Provided by Lab.

For RF Conducted:

Support Equipment					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
A	NB	DELL	E4300	N/A	Provided by Lab.

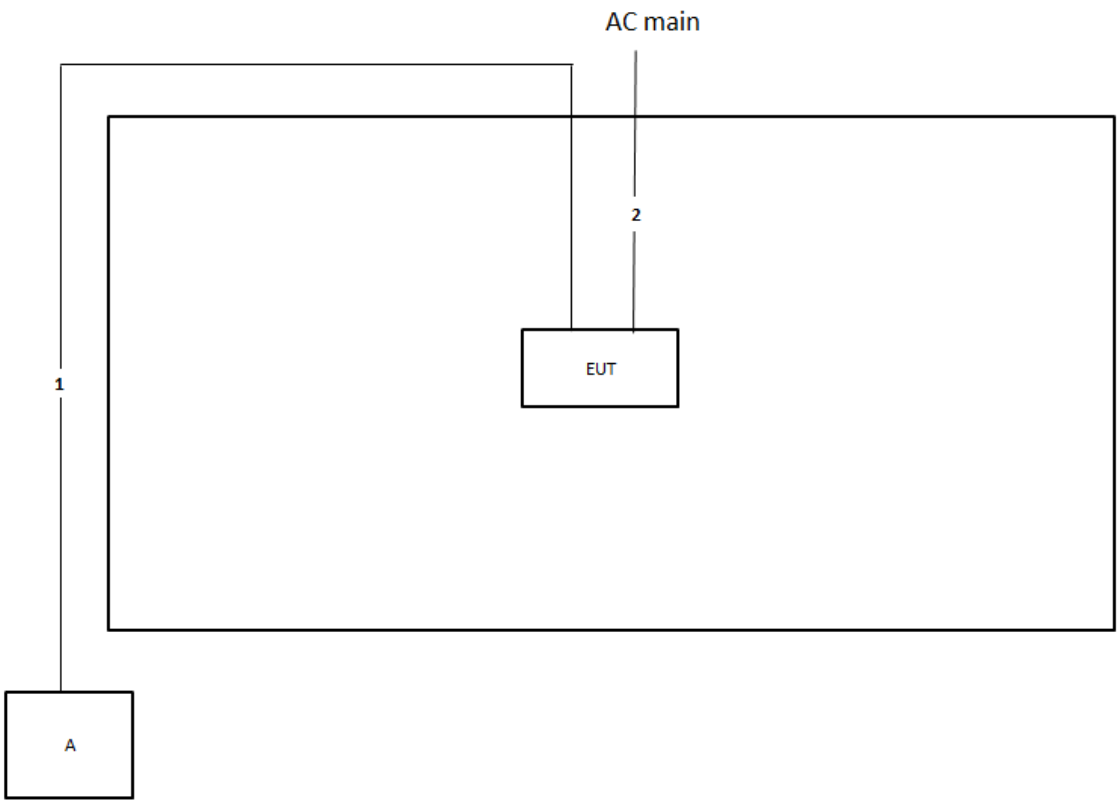
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



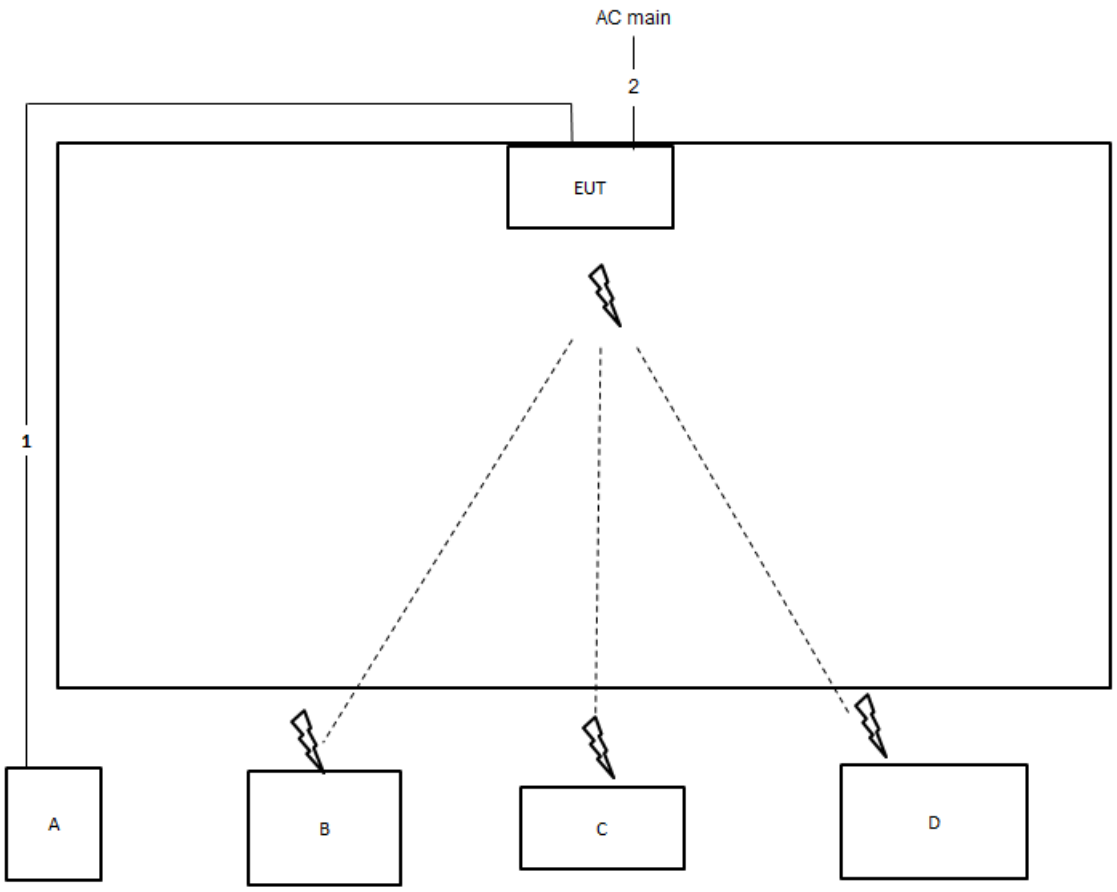
Item	Connection	Shielded	Length	Brand	Model No.	Remark
1	Power cable	No	0.8m	耕興	延長插座	Provided by Lab.
2	RJ-45 cable	No	10m	Powersync	CLN5GBR9020	Provided by Lab.

Test Setup Diagram - Radiated Test < 1GHz / Intentional-CTX



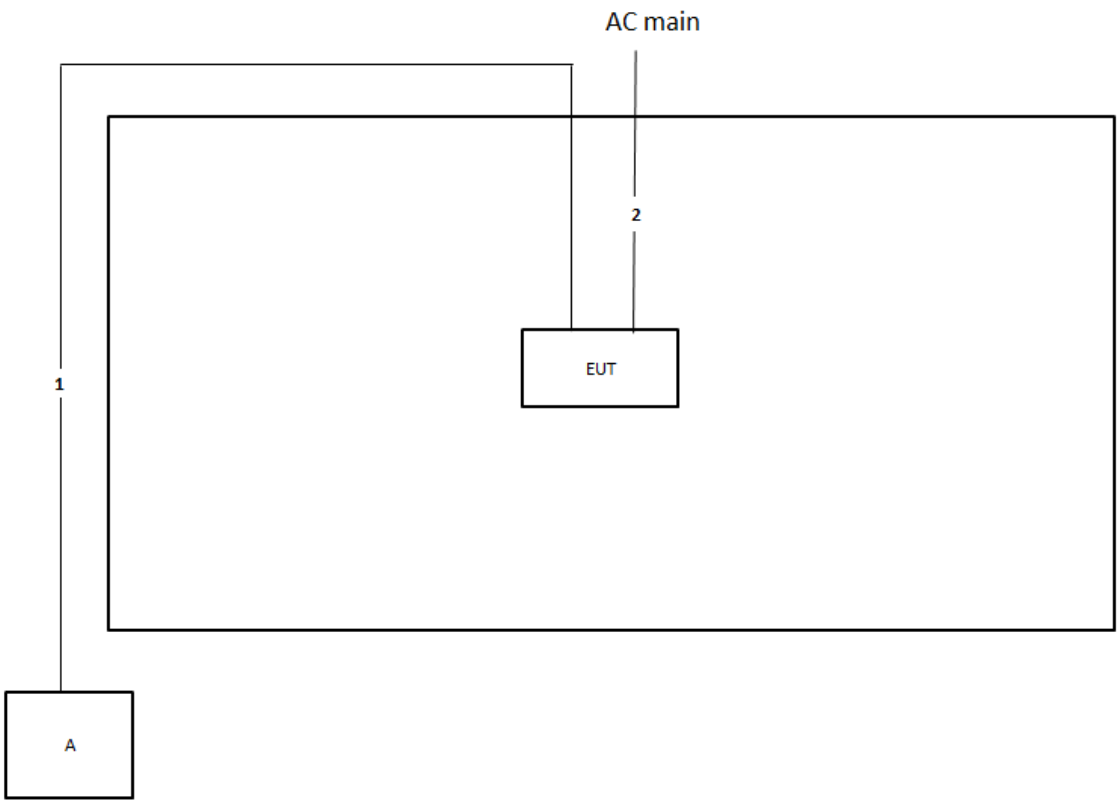
Item	Connection	Shielded	Length	Brand	Model No.	Remark
1	RJ-45 cable	No	10m	Powersync	CLN5GBR9020	Provided by Lab.
2	Power cable	No	1.5m	耕興	延長插座	Provided by Lab.

Test Setup Diagram - Radiated Test < 1GHz / Unintentional-CRX and Radiated Test > 1GHz Unintentional 1GHz~5th-CRX



Item	Connection	Shielded	Length	Brand	Model No.	Remark
1	RJ-45 cable	No	10m	Powersync	CLN5GBR9020	Provided by Lab.
2	Power cable	No	0.8m	耕興	延長插座	Provided by Lab.

Test Setup Diagram - Radiated Test > 1GHz / Intentional 1GHz~10th-CTX



Item	Connection	Shielded	Length	Brand	Model No.	Remark
1	RJ-45 cable	No	10m	Powersync	CLN5GBR9020	Provided by Lab.
2	Power cable	No	1.5m	耕興	延長插座	Provided by Lab.

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

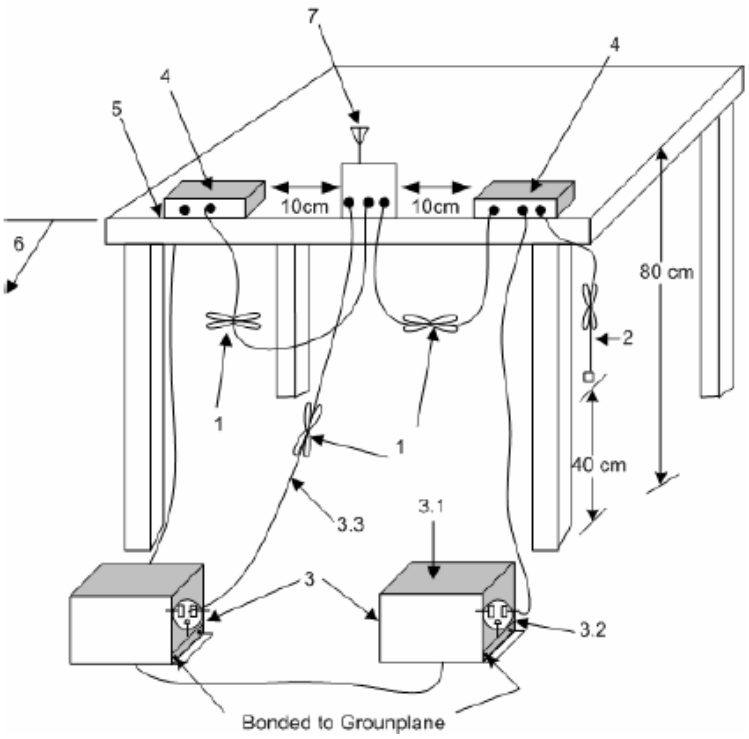
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



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

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

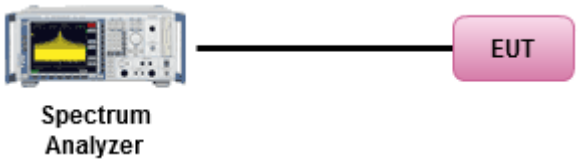
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)

3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

3.4.2 Measuring Instruments

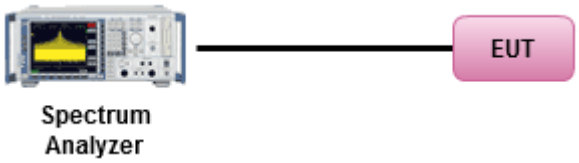
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method			
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).			
	☒ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.		
▪ For conducted measurement.			
	▪ If The EUT supports multiple transmit chains using options given below:		
		☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	
		☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	
		☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.	

3.4.4 Test Setup

Power Spectral Density



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (dBc)**
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

3.5.2 Measuring Instruments

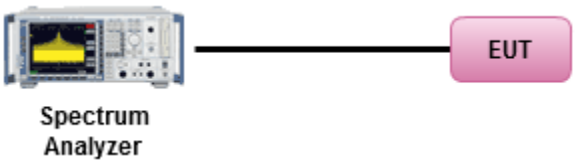
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
▪ Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

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

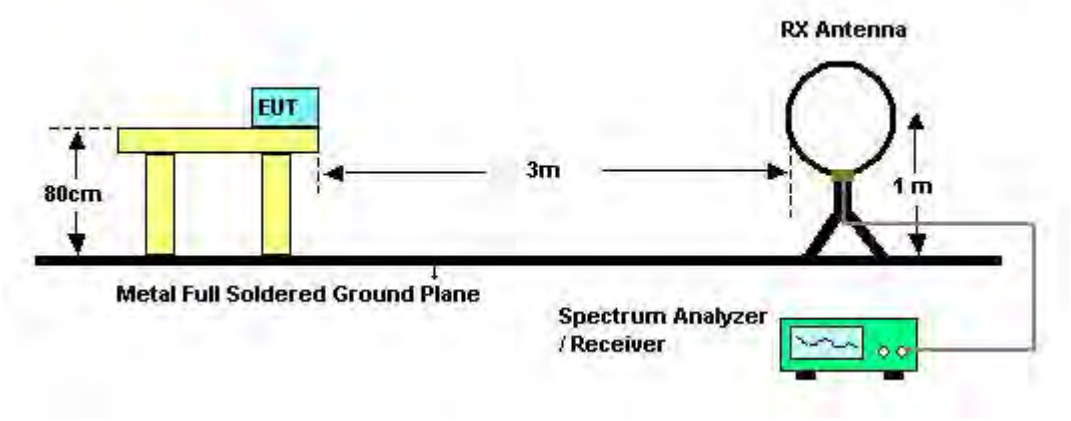
3.6.3 Test Procedures

Test Method			
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].			
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.			
▪ For the transmitter unwanted emissions shall be measured using following options below:			
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.		
		☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%).
		☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
		☒	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T).
		☐	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		☐	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
		☒	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:			
	▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.		
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.		
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).		
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB		
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.		

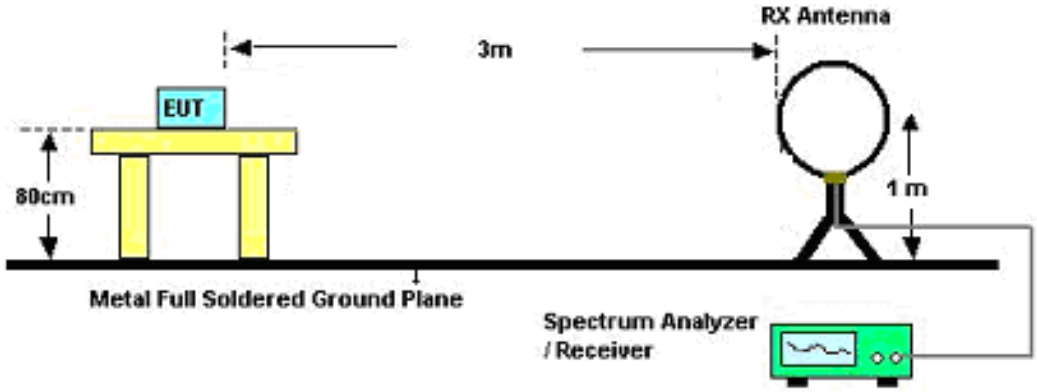
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands
9kHz ~30MHz

Unintentional

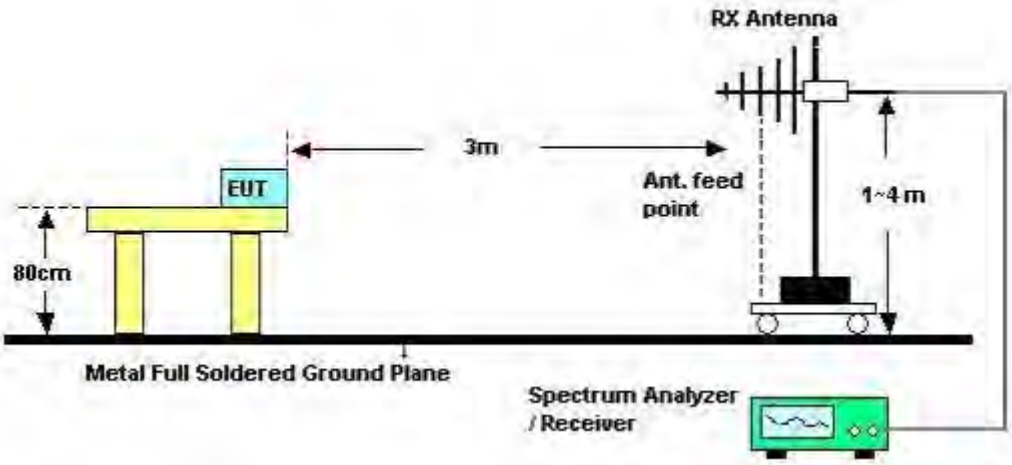


Intentional

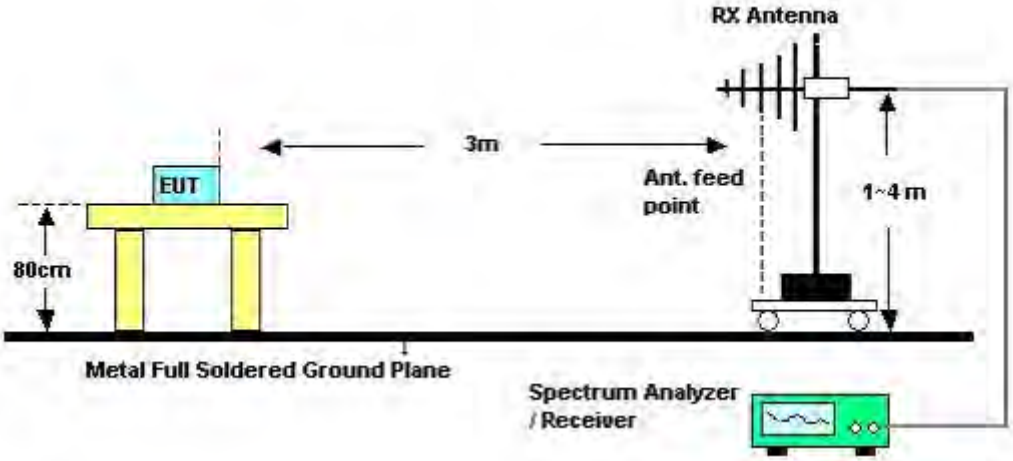


30MHz~1GHz

Unintentional

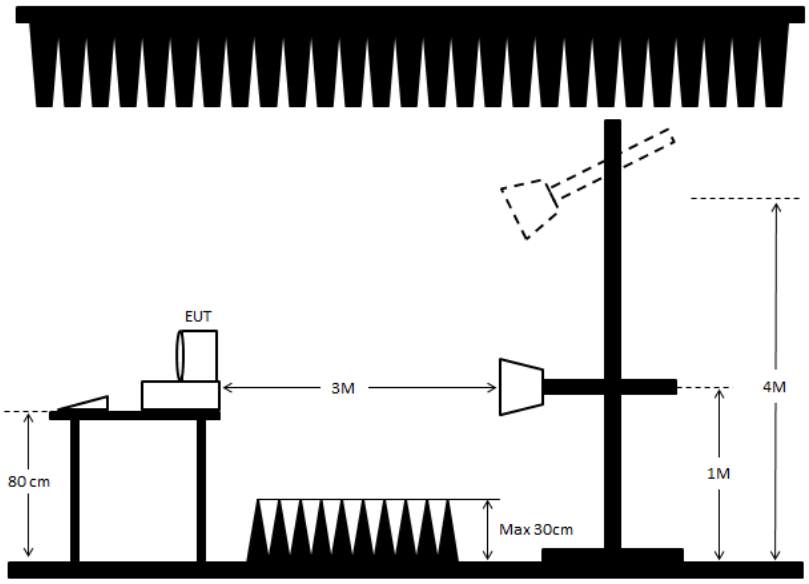


Intentional

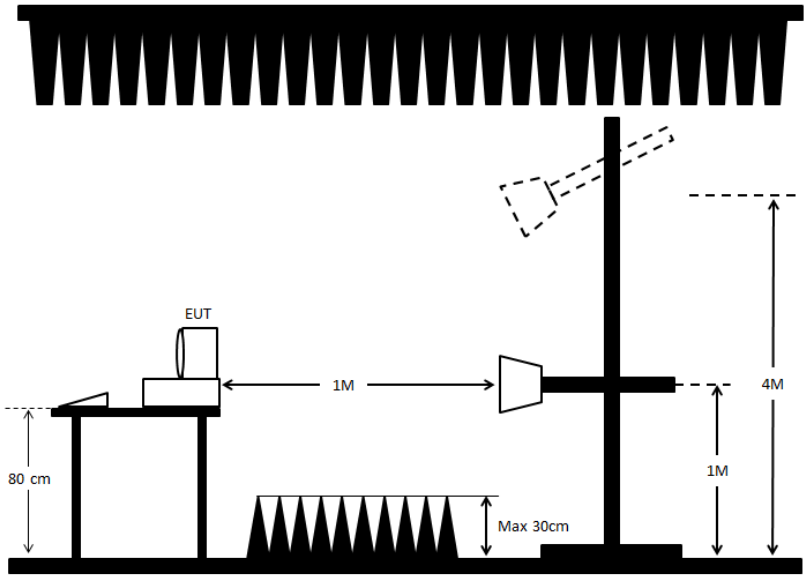


Emissions in Restricted Frequency Bands

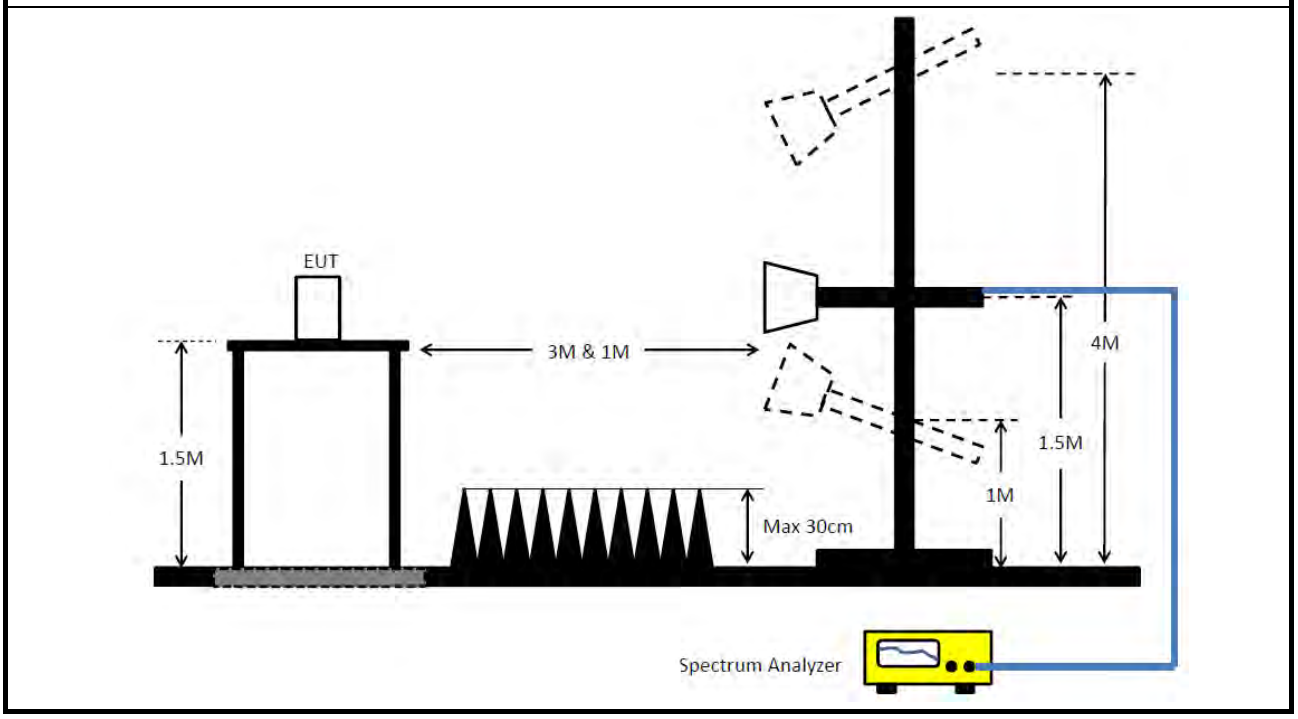
1,000~18,000 MHz / Unintentional



18,000~30,000 MHz / Unintentional



Above 1GHz / Intentional



3.6.5 Measurement Results Calculation

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 25, 2019	Dec. 24, 2020	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 31, 2020	Jan. 30, 2021	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 20, 2020	May 19, 2021	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 27, 2020	Mar. 26, 2021	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1291	1GHz~18GHz	Oct. 05, 2019	Oct. 04, 2020	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 11, 2020	Jun. 10, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 28, 2020	Apr. 27, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jul. 03, 2020	Jul. 02, 2021	Radiation (03CH05-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 19, 2020	Jun. 18, 2021	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Feb. 01, 2020	Jan. 31, 2021	Radiation (03CH05-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 29, 2020	Jan. 28, 2021	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner	CBL6112B & N-6-06	2928 & AT-N0607	20MHz ~ 2GHz	Feb. 28, 2020	Feb. 27, 2021	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 15, 2020	Jan. 14, 2021	Radiation (03CH03-CB)
Site V.S.W.R	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 28, 2020	May 27, 2021	Radiation (03CH03-CB)
Horn Antenna	ETS・Lindgren	3115	6821	750MHz~18GHz	Jan. 20, 2020	Jan. 19, 2021	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 11, 2020	Jun. 10, 2021	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 03, 2020	Jun. 02, 2021	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 09, 2020	Jun. 08, 2021	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Site V.S.W.R	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 26, 2020	Feb. 25, 2021	Radiation (03CH04-CB)
Horn Antenna	ETS・Lindgren	3115	00143147	750MHz~18GHz	Oct. 22, 2019	Oct. 21, 2020	Radiation (03CH04-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 14, 2020	Jul. 13, 2021	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Dec. 18, 2019	Dec. 17, 2020	Radiation (03CH04-CB
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	May 12, 2020	May 11, 2021	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 11, 2019	Sep. 10, 2020	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1531343	300MHz~40GHz	Aug. 04, 2020	Aug. 03, 2021	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 11, 2019	Sep. 10, 2020	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1728001	300MHz~40GHz	Aug. 04, 2020	Aug. 03, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-3	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 26.5 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.

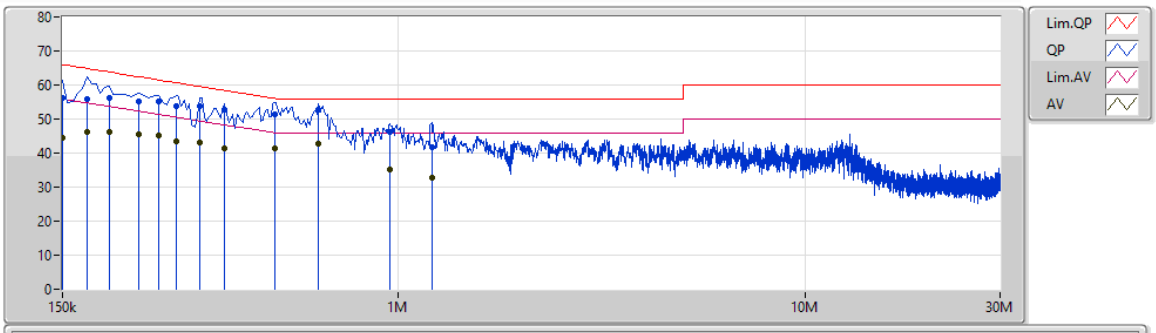
NCR means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition
Mode 1	Pass	AV	636k	42.72	46.00	-3.28	9.91	Line

Mode 1

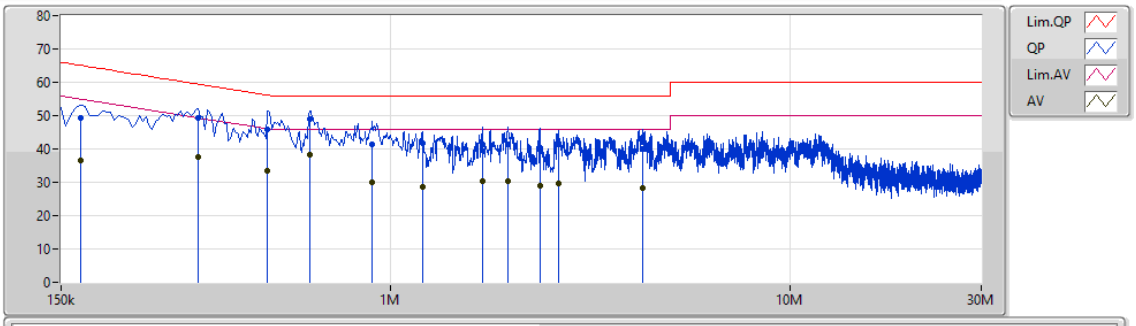
29/07/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	56.09	66.00	-9.91	9.87	Line	-	46.22	0.05	0.03	9.79
AV	150k	44.40	56.00	-11.60	9.87	Line	-	34.53	0.05	0.03	9.79
QP	172.5k	56.01	64.83	-8.82	9.87	Line	-	46.14	0.05	0.03	9.79
AV	172.5k	46.06	54.83	-8.77	9.87	Line	-	36.19	0.05	0.03	9.79
QP	195k	56.07	63.82	-7.75	9.86	Line	-	46.21	0.04	0.03	9.79
AV	195k	46.32	53.82	-7.50	9.86	Line	-	36.46	0.04	0.03	9.79
QP	231k	55.11	62.41	-7.30	9.86	Line	-	45.25	0.04	0.03	9.79
AV	231k	45.51	52.41	-6.90	9.86	Line	-	35.65	0.04	0.03	9.79
QP	258k	55.15	61.49	-6.34	9.87	Line	-	45.28	0.04	0.03	9.80
AV	258k	45.30	51.49	-6.19	9.87	Line	-	35.43	0.04	0.03	9.80
QP	285k	53.93	60.67	-6.74	9.87	Line	-	44.06	0.04	0.03	9.80
AV	285k	43.34	50.67	-7.33	9.87	Line	-	33.47	0.04	0.03	9.80
QP	325.5k	53.80	59.56	-5.76	9.87	Line	-	43.93	0.04	0.03	9.80
AV	325.5k	42.94	49.56	-6.62	9.87	Line	-	33.07	0.04	0.03	9.80
QP	375k	52.81	58.39	-5.58	9.88	Line	-	42.93	0.04	0.03	9.81
AV	375k	41.54	48.39	-6.85	9.88	Line	-	31.66	0.04	0.03	9.81
QP	496.5k	51.37	56.06	-4.69	9.88	Line	-	41.49	0.04	0.03	9.81
AV	496.5k	41.26	46.06	-4.80	9.88	Line	-	31.38	0.04	0.03	9.81
QP	636k	52.59	56.00	-3.41	9.91	Line	-	42.68	0.05	0.04	9.82
AV	636k	42.72	46.00	-3.28	9.91	Line	"Worst"	32.81	0.05	0.04	9.82
QP	955.5k	46.37	56.00	-9.63	9.91	Line	-	36.46	0.05	0.04	9.82
AV	955.5k	35.32	46.00	-10.68	9.91	Line	-	25.41	0.05	0.04	9.82
QP	1.208M	41.84	56.00	-14.16	9.92	Line	-	31.92	0.05	0.05	9.82
AV	1.208M	32.84	46.00	-13.16	9.92	Line	-	22.92	0.05	0.05	9.82

Mode 1

29/07/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	168k	49.47	65.06	-15.59	9.86	Neutral	-	39.61	0.04	0.03	9.79
AV	168k	36.70	55.06	-18.36	9.86	Neutral	-	26.84	0.04	0.03	9.79
QP	330k	49.47	59.44	-9.97	9.87	Neutral	-	39.60	0.04	0.03	9.80
AV	330k	37.45	49.44	-11.99	9.87	Neutral	-	27.58	0.04	0.03	9.80
QP	492k	45.73	56.13	-10.40	9.88	Neutral	-	35.85	0.04	0.03	9.81
AV	492k	33.60	46.13	-12.53	9.88	Neutral	-	23.72	0.04	0.03	9.81
QP	627k	48.80	56.00	-7.20	9.89	Neutral	"Worst"	38.91	0.05	0.03	9.81
AV	627k	38.41	46.00	-7.59	9.89	Neutral	-	28.52	0.05	0.03	9.81
QP	901.5k	41.38	56.00	-14.62	9.92	Neutral	-	31.46	0.06	0.04	9.82
AV	901.5k	29.91	46.00	-16.09	9.92	Neutral	-	19.99	0.06	0.04	9.82
QP	1.203M	41.56	56.00	-14.44	9.93	Neutral	-	31.63	0.06	0.05	9.82
AV	1.203M	28.61	46.00	-17.39	9.93	Neutral	-	18.68	0.06	0.05	9.82
QP	1.694M	41.34	56.00	-14.66	9.96	Neutral	-	31.38	0.07	0.06	9.83
AV	1.694M	30.24	46.00	-15.76	9.96	Neutral	-	20.28	0.07	0.06	9.83
QP	1.964M	41.33	56.00	-14.67	9.97	Neutral	-	31.36	0.07	0.07	9.83
AV	1.964M	30.42	46.00	-15.58	9.97	Neutral	-	20.45	0.07	0.07	9.83
QP	2.36M	40.51	56.00	-15.49	9.98	Neutral	-	30.53	0.07	0.08	9.83
AV	2.36M	28.87	46.00	-17.13	9.98	Neutral	-	18.89	0.07	0.08	9.83
QP	2.63M	41.23	56.00	-14.77	9.99	Neutral	-	31.24	0.08	0.09	9.82
AV	2.63M	29.72	46.00	-16.28	9.99	Neutral	-	19.73	0.08	0.09	9.82
QP	4.268M	40.09	56.00	-15.91	10.05	Neutral	-	30.04	0.10	0.13	9.82
AV	4.268M	28.23	46.00	-17.77	10.05	Neutral	-	18.18	0.10	0.13	9.82

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_3TX	10.075M	15.967M	16M0D2W	9.025M	13.718M
802.11g_Nss1,(6Mbps)_3TX	15.125M	24.763M	24M8D7W	15.025M	16.417M
VHT20_Nss1,(MCS0)_3TX	15.125M	21.914M	21M9D7W	15.025M	17.541M
VHT40_Nss1,(MCS0)_3TX	35.1M	36.332M	36M3D7W	35M	36.132M

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

Result

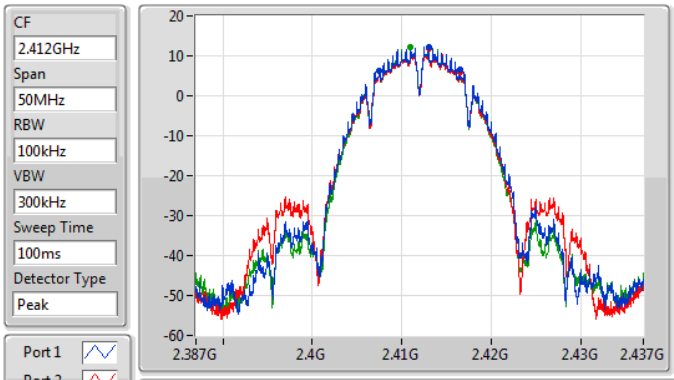
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	9.075M	14.018M	9.05M	14.068M	9.025M	13.718M
2437MHz	Pass	500k	10.075M	15.967M	10.025M	15.392M	10.025M	15.042M
2462MHz	Pass	500k	10.025M	14.718M	9.075M	14.868M	9.075M	14.118M
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	15.075M	16.417M	15.125M	16.492M	15.125M	16.517M
2437MHz	Pass	500k	15.075M	24.763M	15.125M	23.788M	15.125M	22.164M
2462MHz	Pass	500k	15.025M	16.417M	15.125M	16.492M	15.075M	16.517M
VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	15.025M	17.641M	15.125M	17.641M	15.05M	17.566M
2437MHz	Pass	500k	15.075M	21.914M	15.05M	20.415M	15.025M	19.015M
2462MHz	Pass	500k	15.1M	17.616M	15.1M	17.616M	15.075M	17.541M
VHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	35M	36.182M	35.05M	36.132M	35.05M	36.132M
2437MHz	Pass	500k	35.1M	36.332M	35.05M	36.232M	35.05M	36.132M
2452MHz	Pass	500k	35.1M	36.182M	35.1M	36.132M	35M	36.132M

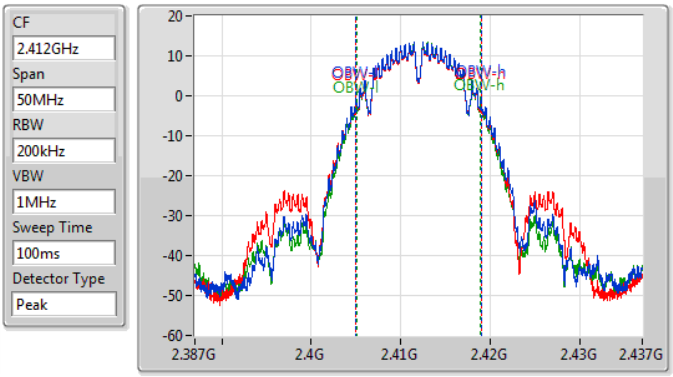
Port X-N dB = Port **X** 6dB down bandwidth; **Port X-OBW** = Port **X** 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_3TX EBW

2412MHz

02/10/2020



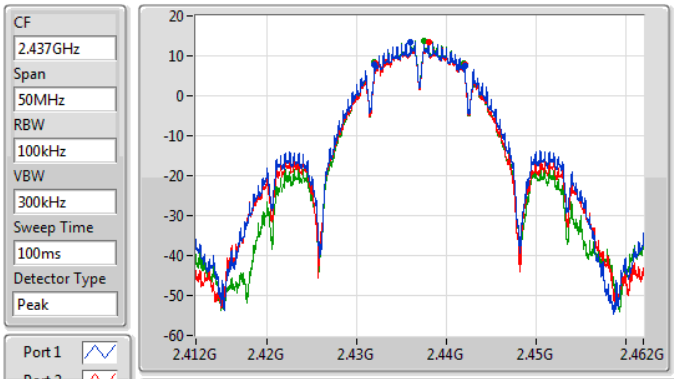


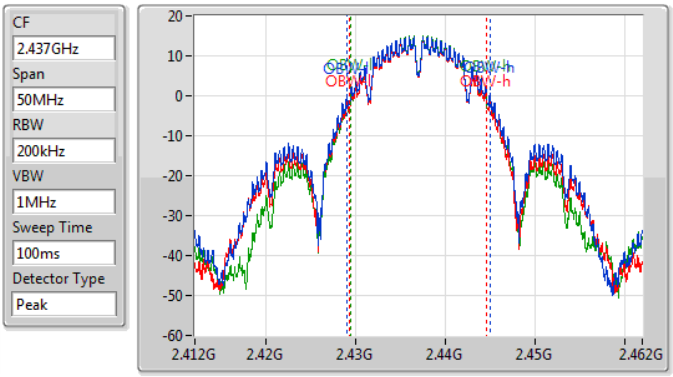
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.075M	2.40745G	2.416525G	14.018M	2.405003G	2.419021G	500k	1
9.05M	2.407475G	2.416525G	14.068M	2.404954G	2.419021G	500k	2
9.025M	2.407475G	2.4165G	13.718M	2.405153G	2.418872G	500k	3

802.11b_Nss1,(1Mbps)_3TX EBW

2437MHz

02/10/2020



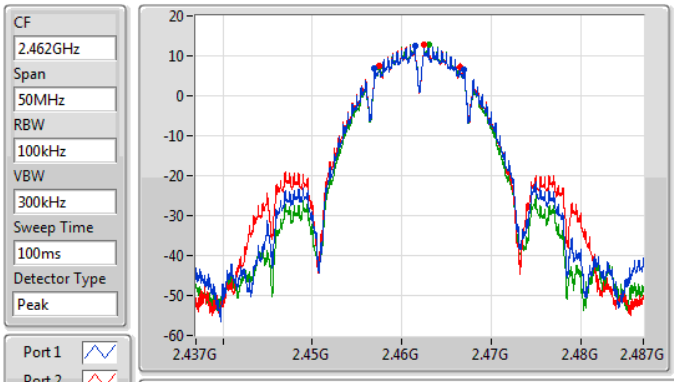


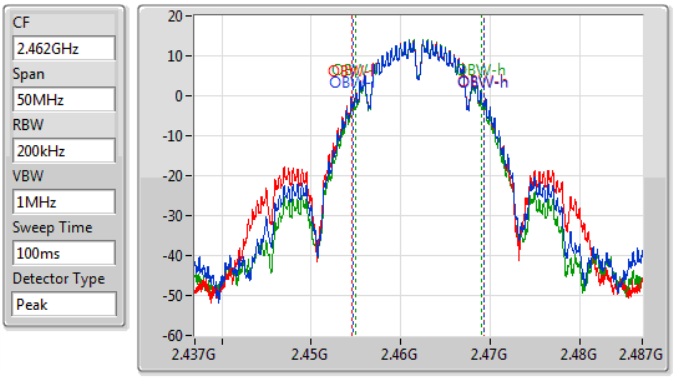
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.075M	2.43195G	2.442025G	15.967M	2.429029G	2.444996G	500k	1
10.025M	2.432G	2.442025G	15.392M	2.429254G	2.444646G	500k	2
10.025M	2.431975G	2.442G	15.042M	2.429479G	2.444521G	500k	3

802.11b_Nss1,(1Mbps)_3TX EBW

2462MHz

02/10/2020



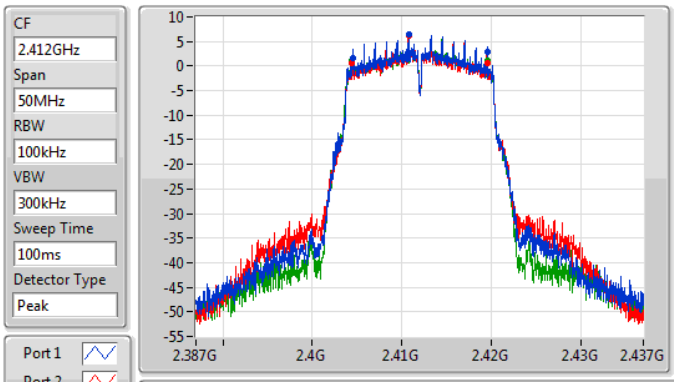


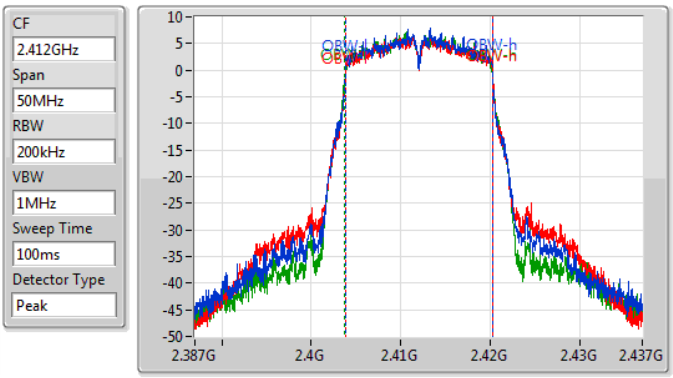
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.025M	2.456975G	2.467G	14.718M	2.454654G	2.469371G	500k	1
9.075M	2.45745G	2.466525G	14.868M	2.454504G	2.469371G	500k	2
9.075M	2.45745G	2.466525G	14.118M	2.454929G	2.469046G	500k	3

802.11g_Nss1,(6Mbps)_3TX EBW

2412MHz

04/08/2020



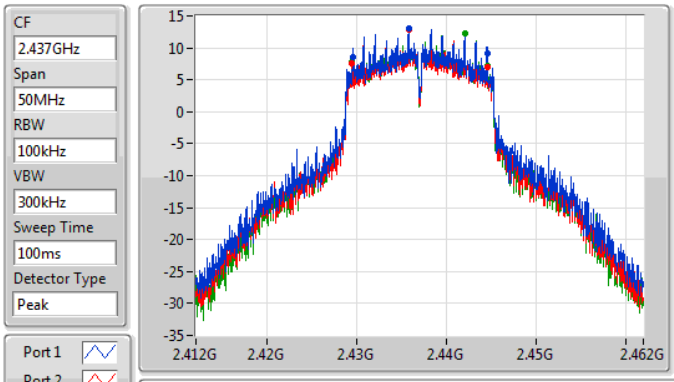


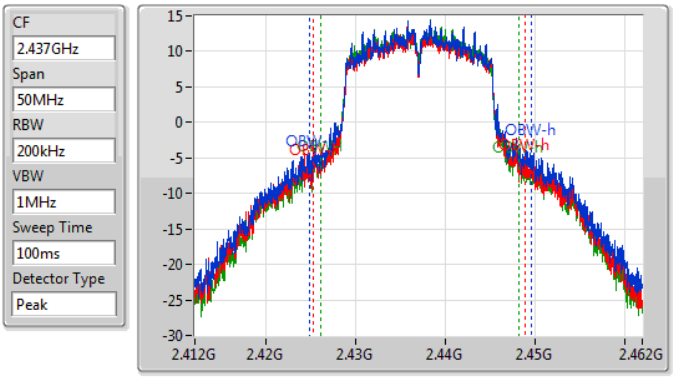
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.075M	2.4045G	2.419575G	16.417M	2.403829G	2.420246G	500k	1
15.125M	2.404475G	2.4196G	16.492M	2.403804G	2.420296G	500k	2
15.125M	2.404475G	2.4196G	16.517M	2.403754G	2.420271G	500k	3

802.11g_Nss1,(6Mbps)_3TX EBW

2437MHz

04/08/2020



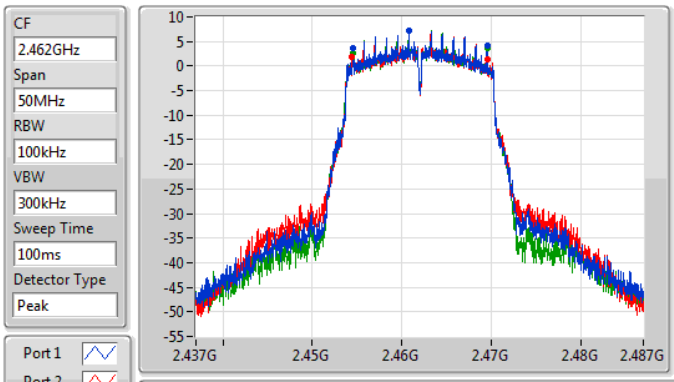


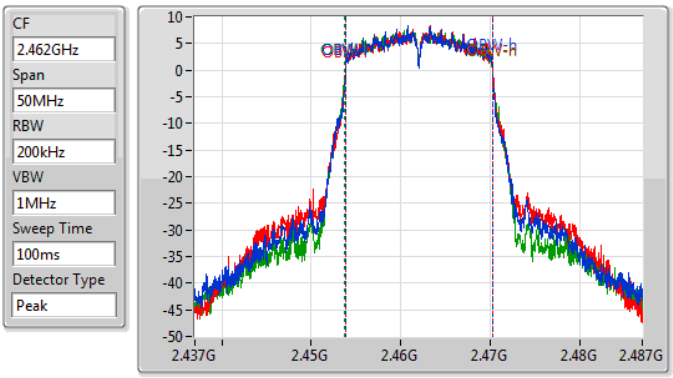
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.075M	2.4295G	2.444575G	24.763M	2.424831G	2.449594G	500k	1
15.125M	2.429475G	2.4446G	23.788M	2.425181G	2.448969G	500k	2
15.125M	2.429475G	2.4446G	22.164M	2.42603G	2.448194G	500k	3

802.11g_Nss1,(6Mbps)_3TX EBW

2462MHz

04/08/2020



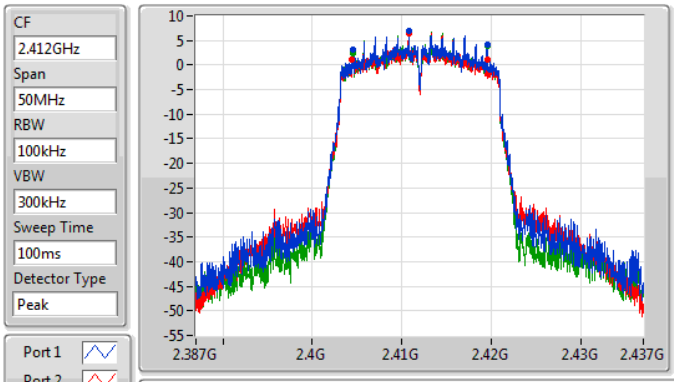


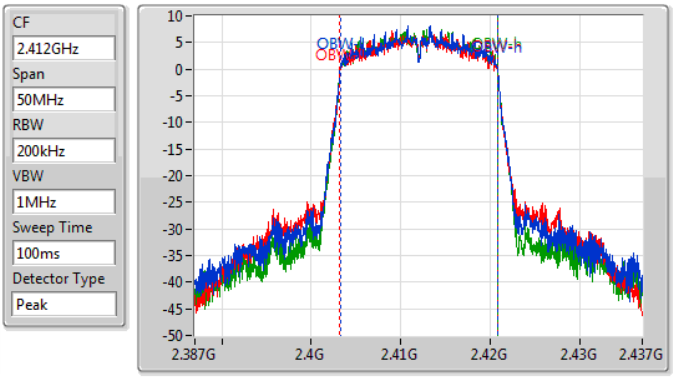
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.025M	2.454525G	2.46955G	16.417M	2.453829G	2.470246G	500k	1
15.125M	2.454475G	2.4696G	16.492M	2.453804G	2.470296G	500k	2
15.075M	2.4545G	2.469575G	16.517M	2.453754G	2.470271G	500k	3

VHT20_Nss1,(MCS0)_3TX EBW

2412MHz

04/08/2020



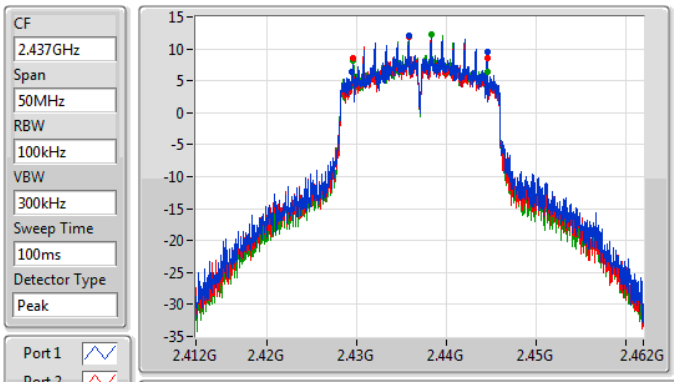


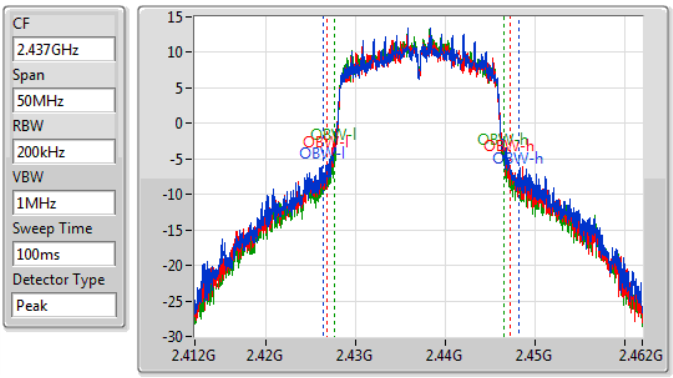
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.025M	2.404525G	2.41955G	17.641M	2.403229G	2.420871G	500k	1
15.125M	2.404475G	2.4196G	17.641M	2.403204G	2.420846G	500k	2
15.05M	2.4045G	2.41955G	17.566M	2.403254G	2.420821G	500k	3

VHT20_Nss1,(MCS0)_3TX EBW

2437MHz

04/08/2020



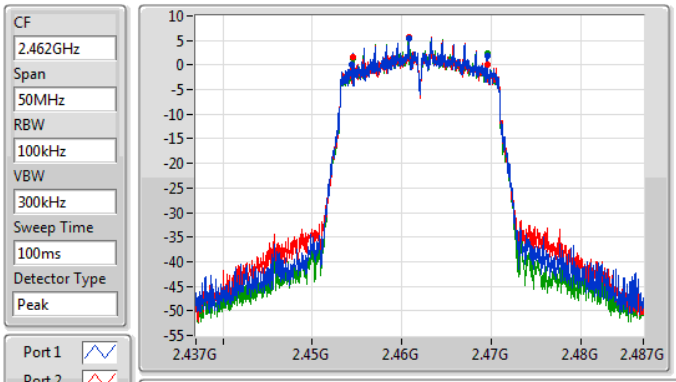


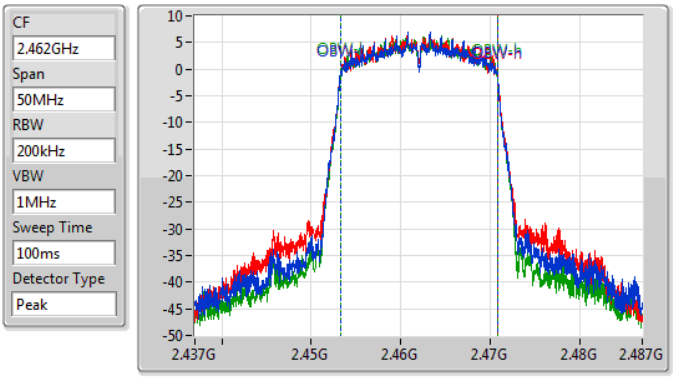
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.075M	2.429475G	2.44455G	21.914M	2.42628G	2.448194G	500k	1
15.05M	2.429525G	2.444575G	20.415M	2.42683G	2.447245G	500k	2
15.025M	2.429575G	2.4446G	19.015M	2.427555G	2.44657G	500k	3

VHT20_Nss1,(MCS0)_3TX EBW

2462MHz

04/08/2020



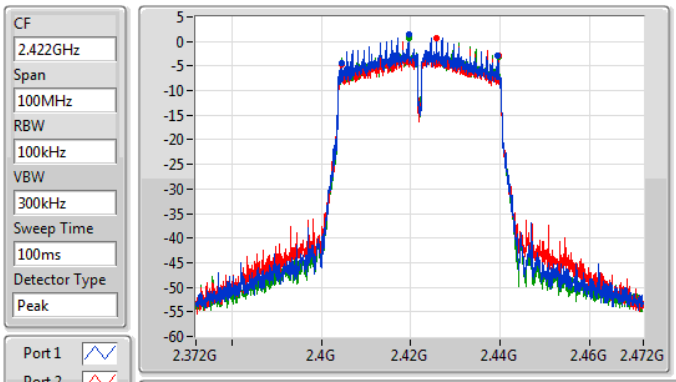


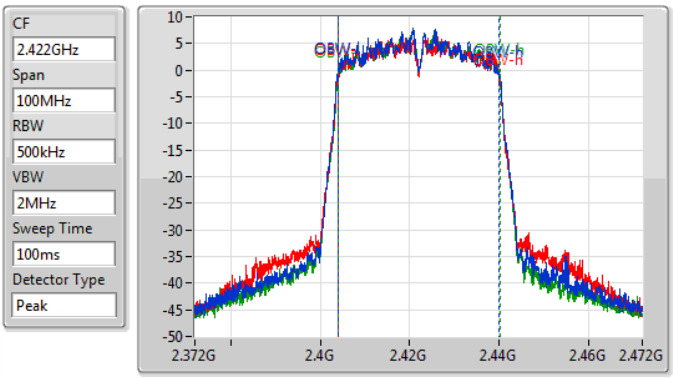
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.1M	2.454475G	2.469575G	17.616M	2.453229G	2.470846G	500k	1
15.1M	2.4545G	2.4696G	17.616M	2.453229G	2.470846G	500k	2
15.075M	2.4545G	2.469575G	17.541M	2.453279G	2.470821G	500k	3

VHT40_Nss1,(MCS0)_3TX EBW

2422MHz

04/08/2020



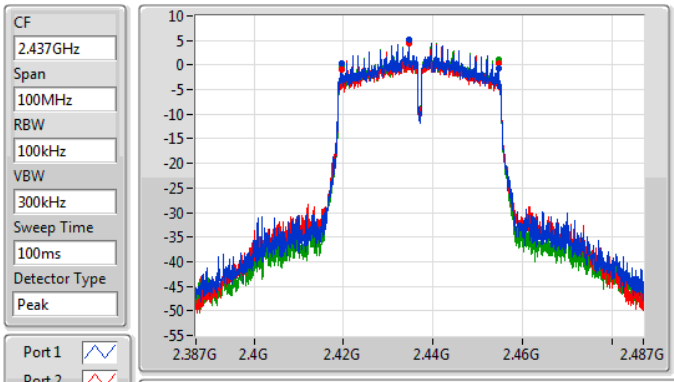


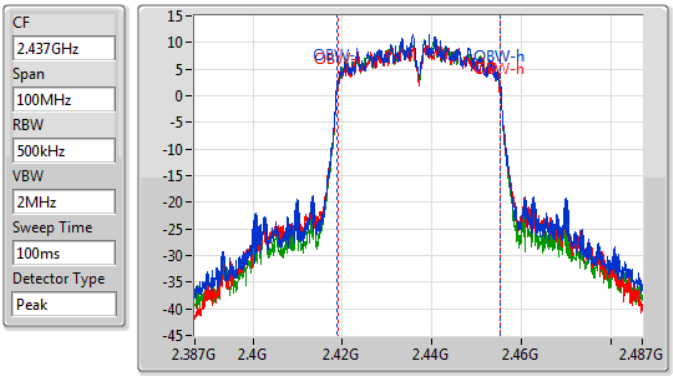
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35M	2.4045G	2.4395G	36.182M	2.403909G	2.440091G	500k	1
35.05M	2.4045G	2.43955G	36.132M	2.403959G	2.440091G	500k	2
35.05M	2.4045G	2.43955G	36.132M	2.404009G	2.440141G	500k	3

VHT40_Nss1,(MCS0)_3TX EBW

2437MHz

04/08/2020



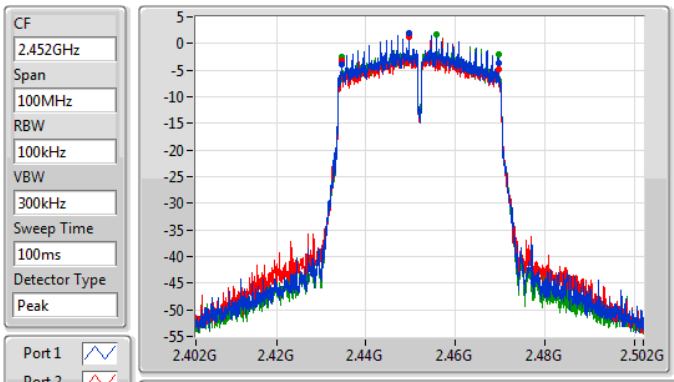


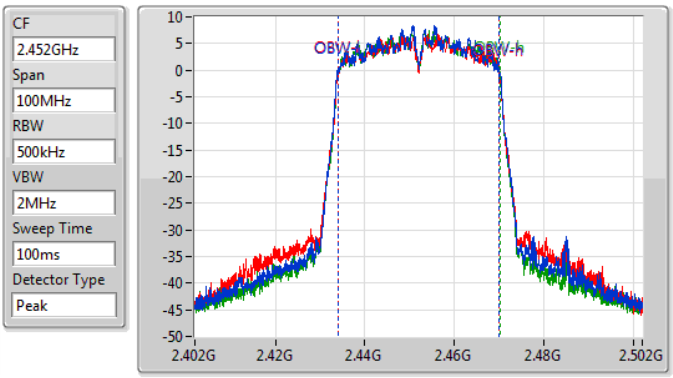
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.1M	2.4195G	2.4546G	36.332M	2.418859G	2.455191G	500k	1
35.05M	2.4195G	2.45455G	36.232M	2.418909G	2.455141G	500k	2
35.05M	2.4195G	2.45455G	36.132M	2.419009G	2.455141G	500k	3

VHT40_Nss1,(MCS0)_3TX EBW

2452MHz

04/08/2020





6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.1M	2.4345G	2.4696G	36.182M	2.433909G	2.470091G	500k	1
35.1M	2.4345G	2.4696G	36.132M	2.433959G	2.470091G	500k	2
35M	2.43455G	2.46955G	36.132M	2.434009G	2.470141G	500k	3

For Non-beamforming
Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_3TX	28.50	0.70795
802.11g_Nss1,(6Mbps)_3TX	27.66	0.58345
VHT20_Nss1,(MCS0)_3TX	26.78	0.47643
VHT40_Nss1,(MCS0)_3TX	22.28	0.16904

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	2.00	21.81	21.61	21.80	26.51	30.00
2437MHz	Pass	2.00	23.80	23.50	23.89	28.50	30.00
2462MHz	Pass	2.00	22.58	22.63	22.64	27.39	30.00
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	2.00	16.88	16.53	16.89	21.54	30.00
2437MHz	Pass	2.00	23.00	22.64	23.03	27.66	30.00
2462MHz	Pass	2.00	17.37	17.37	17.37	22.14	30.00
VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	2.00	17.37	16.96	17.25	21.97	30.00
2437MHz	Pass	2.00	22.13	21.72	22.16	26.78	30.00
2462MHz	Pass	2.00	15.99	15.88	15.93	20.70	30.00
VHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	2.00	14.01	13.83	14.23	18.80	30.00
2437MHz	Pass	2.00	17.78	17.24	17.49	22.28	30.00
2452MHz	Pass	2.00	14.88	14.28	14.76	19.42	30.00

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

For beamforming
Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
VHT20-BF_Nss1,(MCS0)_3TX	26.78	0.47643
VHT40-BF_Nss1,(MCS0)_3TX	22.28	0.16904

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
VHT20-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	6.77	17.37	16.96	17.25	21.97	29.23
2437MHz	Pass	6.77	22.13	21.72	22.16	26.78	29.23
2462MHz	Pass	6.77	15.99	15.88	15.93	20.70	29.23
VHT40-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	6.77	14.01	13.83	14.23	18.80	29.23
2437MHz	Pass	6.77	17.78	17.24	17.49	22.28	29.23
2452MHz	Pass	6.77	14.88	14.28	14.76	19.42	29.23

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_3TX	-1.95
802.11g_Nss1,(6Mbps)_3TX	0.56
VHT20_Nss1,(MCS0)_3TX	-1.16
VHT40_Nss1,(MCS0)_3TX	-8.38

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

Result

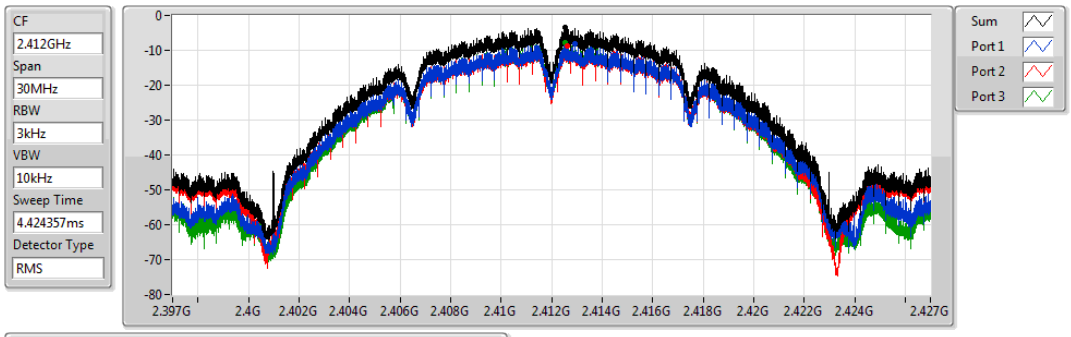
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	6.77	-8.15	-8.88	-7.73	-3.56	7.23
2437MHz	Pass	6.77	-6.94	-7.07	-6.19	-1.95	7.23
2462MHz	Pass	6.77	-7.52	-7.65	-5.90	-2.69	7.23
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	6.77	-7.98	-9.73	-9.83	-5.62	7.23
2437MHz	Pass	6.77	-3.49	-3.83	-2.44	0.56	7.23
2462MHz	Pass	6.77	-9.11	-8.11	-9.29	-5.55	7.23
VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	6.77	-9.86	-9.81	-8.25	-5.98	7.23
2437MHz	Pass	6.77	-4.02	-5.72	-4.27	-1.16	7.23
2462MHz	Pass	6.77	-10.29	-11.14	-11.08	-7.65	7.23
VHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	6.77	-15.58	-16.27	-15.15	-11.76	7.23
2437MHz	Pass	6.77	-11.26	-12.34	-10.99	-8.38	7.23
2452MHz	Pass	6.77	-14.56	-14.89	-14.33	-10.99	7.23

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

802.11b_Nss1,(1Mbps)_3TX PSD

2412MHz

02/10/2020

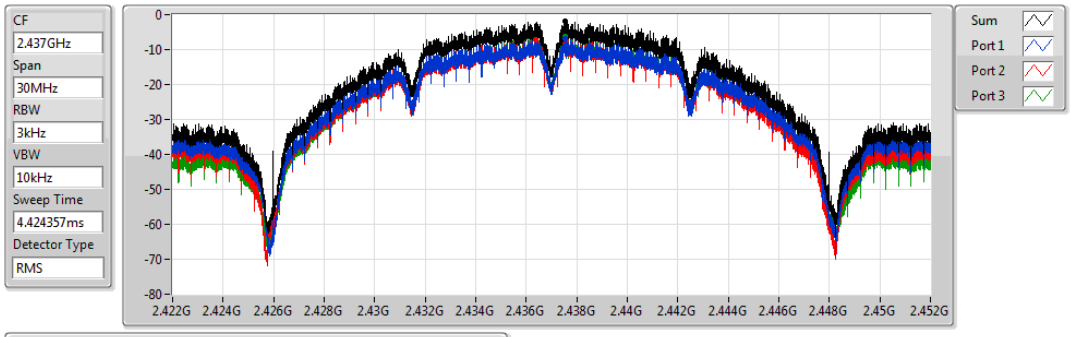


Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.56	-3.56	-8.15	-8.88	-7.73

802.11b_Nss1,(1Mbps)_3TX PSD

2437MHz

02/10/2020

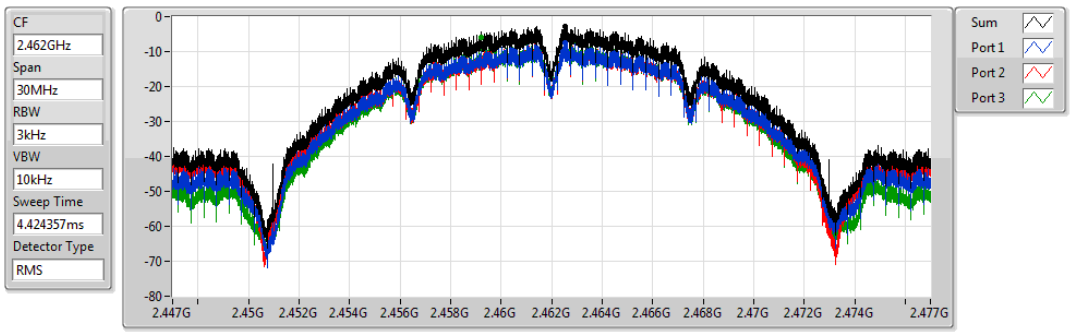


Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.95	-1.95	-6.94	-7.07	-6.19

802.11b_Nss1,(1Mbps)_3TX PSD

2462MHz

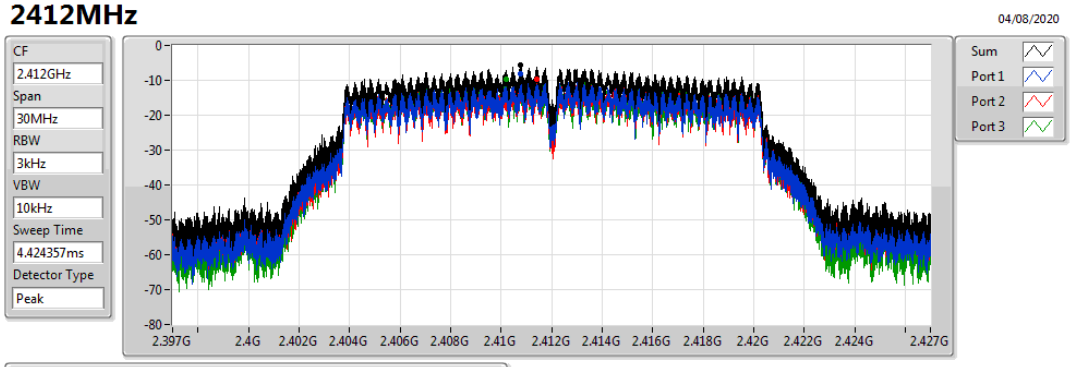
02/10/2020



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.69	-2.69	-7.52	-7.65	-5.90

802.11g_Nss1,(6Mbps)_3TX PSD

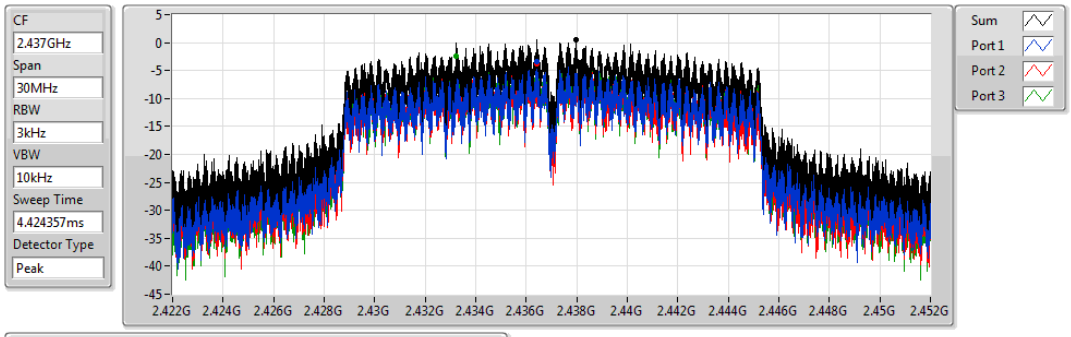
2412MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.62	-5.62	-7.98	-9.73	-9.83

802.11g_Nss1,(6Mbps)_3TX PSD

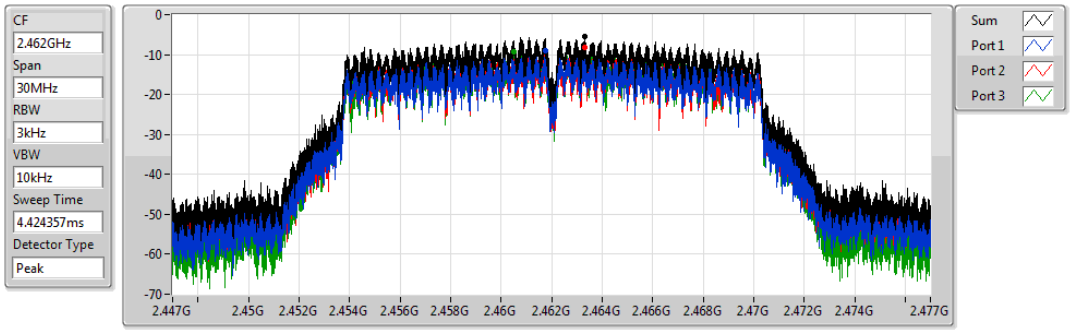
2437MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.56	0.56	-3.49	-3.83	-2.44

802.11g_Nss1,(6Mbps)_3TX PSD

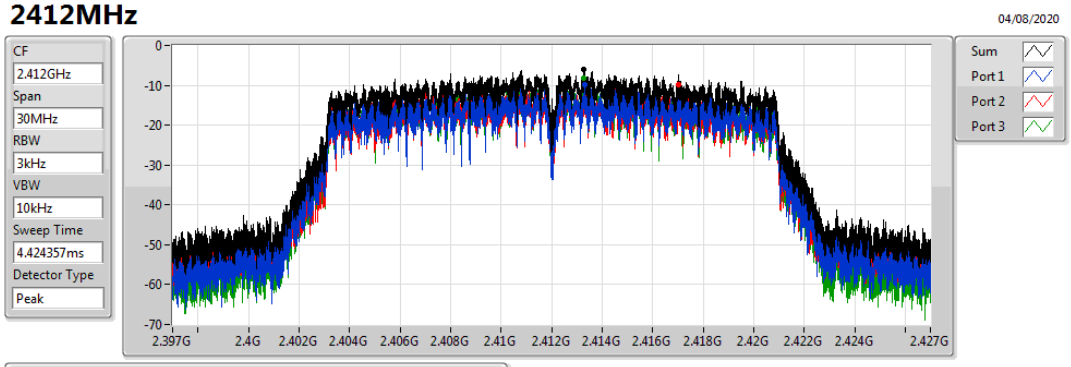
2462MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.55	-5.55	-9.11	-8.11	-9.29

VHT20_Nss1,(MCS0)_3TX PSD

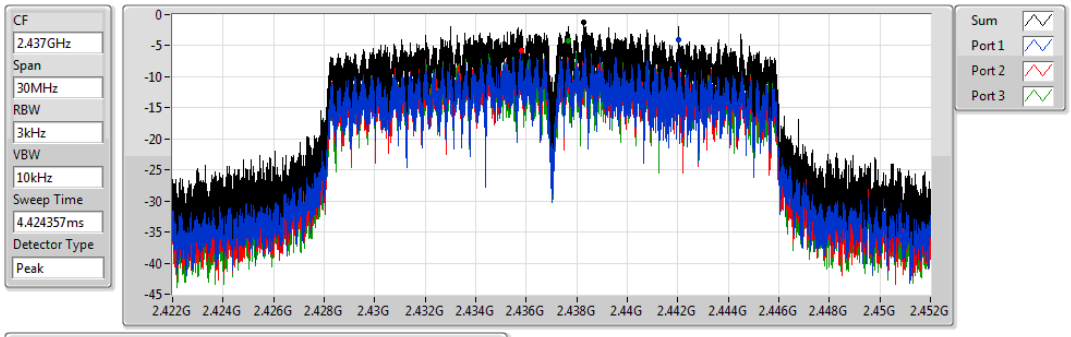
2412MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.98	-5.98	-9.86	-9.81	-8.25

VHT20_Nss1,(MCS0)_3TX PSD

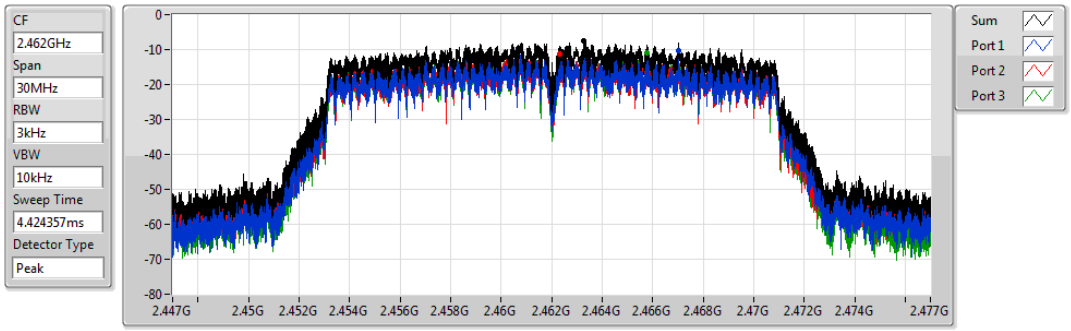
2437MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.16	-1.16	-4.02	-5.72	-4.27

VHT20_Nss1,(MCS0)_3TX PSD

2462MHz

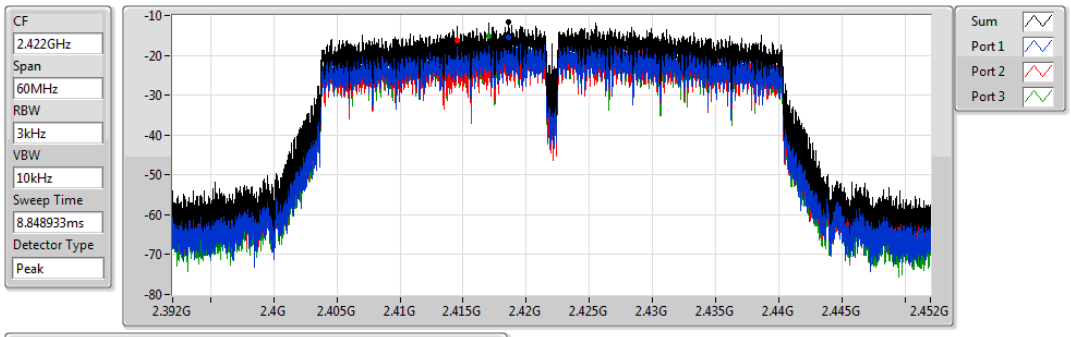


Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.65	-7.65	-10.29	-11.14	-11.08

VHT40_Nss1,(MCS0)_3TX PSD

2422MHz

04/08/2020

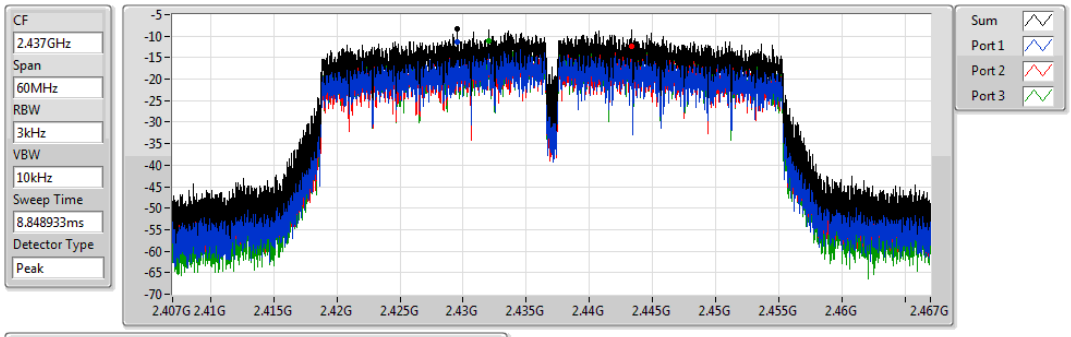


Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.76	-11.76	-15.58	-16.27	-15.15

VHT40_Nss1,(MCS0)_3TX PSD

2437MHz

04/08/2020

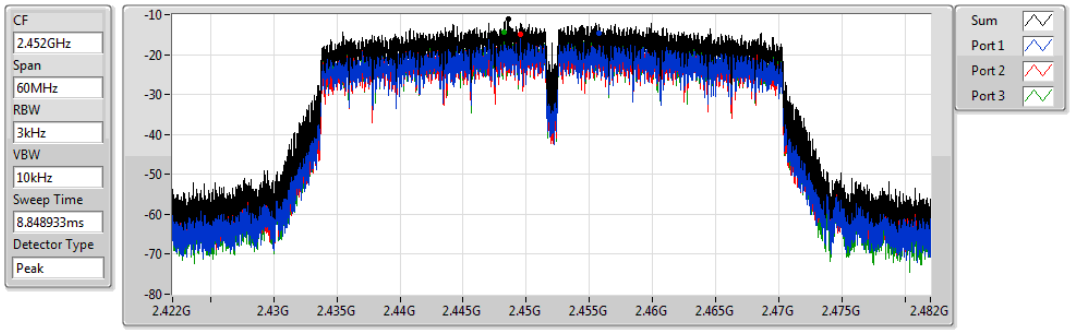


Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.38	-8.38	-11.26	-12.34	-10.99

VHT40_Nss1,(MCS0)_3TX PSD

2452MHz

04/08/2020



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.99	-10.99	-14.56	-14.89	-14.33

Summary

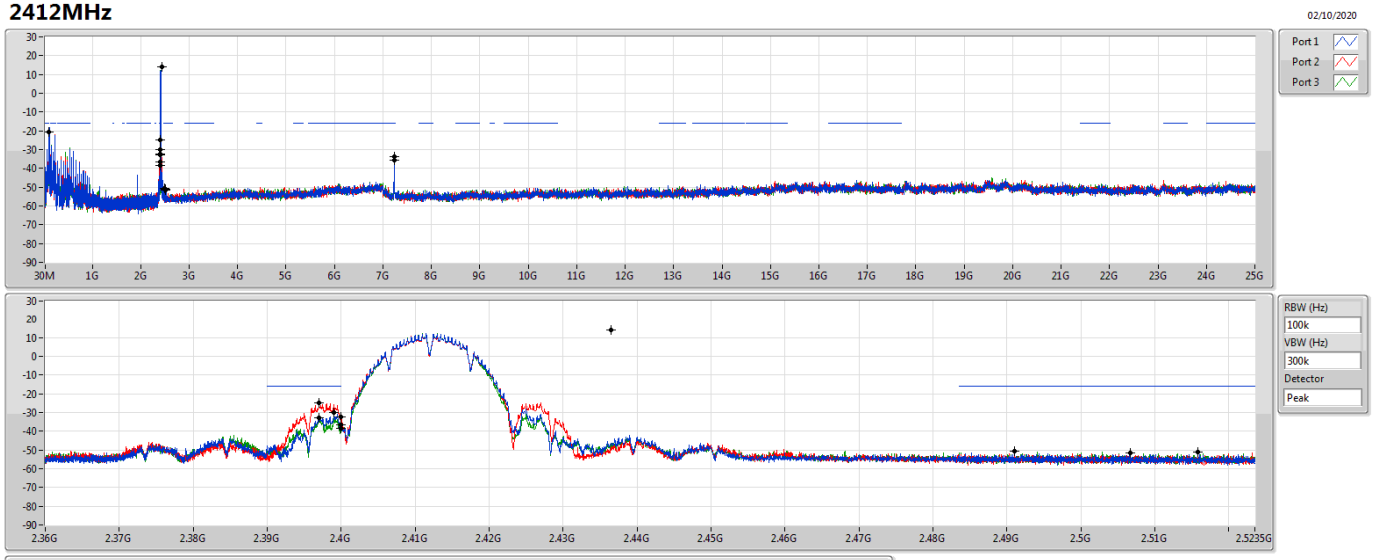
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_3TX	Pass	2.43649G	13.86	-16.14	95.82M	-20.12	2.399G	-42.26	2.4G	-46.24	2.4845G	-45.19	2.92246G	-42.40	3
802.11g_Nss1,(6Mbps)_3TX	Pass	2.43578G	13.13	-16.87	841.42M	-53.34	2.39954G	-28.98	2.4G	-33.94	2.50164G	-51.68	16.84384G	-45.56	2
VHT20_Nss1,(MCS0)_3TX	Pass	2.43578G	12.44	-17.56	897.34M	-52.62	2.39986G	-29.46	2.4G	-32.11	2.49114G	-52.44	15.05415G	-44.18	2
VHT40_Nss1,(MCS0)_3TX	Pass	2.43453G	4.87	-25.13	2.09673G	-53.46	2.39956G	-36.23	2.4G	-40.84	2.48354G	-44.05	17.6829G	-45.37	2

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43649G	13.86	-16.14	95.82M	-20.68	2.39898G	-30.19	2.4G	-36.54	2.50662G	-51.61	7.23514G	-35.69	1
2412MHz	Pass	2.43649G	13.86	-16.14	95.82M	-20.62	2.397G	-24.72	2.4G	-32.35	2.5158G	-51.26	7.23795G	-35.42	2
2412MHz	Pass	2.43649G	13.86	-16.14	95.82M	-20.44	2.39702G	-32.77	2.4G	-38.66	2.49104G	-50.56	7.23514G	-33.94	3
2417MHz															
2437MHz	Pass	2.43649G	13.86	-16.14	95.82M	-20.55	2.3995G	-40.46	2.4G	-43.68	2.48546G	-41.62	16.80732G	-46.98	1
2437MHz	Pass	2.43649G	13.86	-16.14	95.82M	-22.10	2.3975G	-46.62	2.4835G	-49.50	2.48598G	-47.06	24.85952G	-46.79	2
2437MHz	Pass	2.43649G	13.86	-16.14	95.82M	-20.12	2.399G	-42.26	2.4G	-46.24	2.4845G	-45.19	2.92246G	-42.40	3
2457MHz															
2462MHz	Pass	2.43649G	13.86	-16.14	95.82M	-20.50	2.39944G	-52.83	2.4835G	-43.67	2.48598G	-40.74	24.74714G	-47.17	1
2462MHz	Pass	2.43649G	13.86	-16.14	95.82M	-21.21	2.39458G	-51.98	2.4835G	-49.02	2.48998G	-44.40	17.18661G	-47.35	2
2462MHz	Pass	2.43649G	13.86	-16.14	95.82M	-20.97	2.39822G	-52.04	2.4835G	-43.40	2.48996G	-43.33	2.95336G	-43.13	3
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43578G	13.13	-16.87	1.92982G	-47.15	2.3999G	-33.04	2.4G	-34.90	2.49202G	-50.64	15.01762G	-44.92	1
2412MHz	Pass	2.43578G	13.13	-16.87	841.42M	-53.34	2.39954G	-28.98	2.4G	-33.94	2.50164G	-51.68	16.84384G	-45.56	2
2412MHz	Pass	2.43578G	13.13	-16.87	1.92982G	-51.76	2.3999G	-34.51	2.4G	-37.68	2.50704G	-51.38	23.47441G	-46.05	3
2417MHz															
2437MHz	Pass	2.43578G	13.13	-16.87	1.94963G	-37.54	2.39582G	-35.48	2.4G	-39.63	2.48354G	-39.82	17.68952G	-43.75	1
2437MHz	Pass	2.43578G	13.13	-16.87	1.94963G	-45.86	2.39928G	-39.63	2.4G	-44.54	2.48608G	-44.13	17.6839G	-45.32	2
2437MHz	Pass	2.43578G	13.13	-16.87	1.94963G	-45.86	2.3993G	-36.12	2.4G	-40.61	2.48766G	-41.14	24.21613G	-45.79	3
2457MHz															
2462MHz	Pass	2.43578G	13.13	-16.87	1.96973G	-46.12	2.39176G	-51.34	2.4835G	-43.16	2.48422G	-41.93	15.07382G	-45.49	1
2462MHz	Pass	2.43578G	13.13	-16.87	782.59M	-52.93	2.39564G	-52.57	2.4835G	-44.05	2.4839G	-40.14	15.29296G	-45.61	2
2462MHz	Pass	2.43578G	13.13	-16.87	1.96973G	-51.12	2.39788G	-52.65	2.4835G	-45.16	2.49194G	-38.01	24.83143G	-45.79	3
VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43578G	12.44	-17.56	1.92982G	-46.50	2.39984G	-29.64	2.4G	-33.93	2.49204G	-50.72	17.68109G	-45.56	1
2412MHz	Pass	2.43578G	12.44	-17.56	897.34M	-52.62	2.39986G	-29.46	2.4G	-32.11	2.49114G	-52.44	15.05415G	-44.18	2
2412MHz	Pass	2.43578G	12.44	-17.56	1.92982G	-50.12	2.3999G	-31.64	2.4G	-34.00	2.52322G	-52.10	23.48284G	-44.79	3
2417MHz															
2437MHz	Pass	2.43578G	12.44	-17.56	1.94963G	-39.16	2.39926G	-38.27	2.4G	-39.76	2.48364G	-39.35	15.04572G	-45.31	1
2437MHz	Pass	2.43578G	12.44	-17.56	1.94963G	-48.83	2.39964G	-43.75	2.4G	-44.76	2.48392G	-45.72	24.89043G	-45.78	2
2437MHz	Pass	2.43578G	12.44	-17.56	1.94963G	-44.35	2.39928G	-38.42	2.4G	-42.81	2.4873G	-40.99	17.69795G	-45.36	3
2457MHz															
2462MHz	Pass	2.43578G	12.44	-17.56	1.96973G	-47.06	2.39592G	-51.98	2.4835G	-48.86	2.48362G	-41.51	15.02886G	-45.24	1
2462MHz	Pass	2.43578G	12.44	-17.56	902M	-52.47	2.39868G	-52.06	2.4835G	-47.57	2.48358G	-42.91	15.27049G	-45.32	2
2462MHz	Pass	2.43578G	12.44	-17.56	1.96973G	-51.37	2.39908G	-52.78	2.4835G	-48.97	2.48368G	-46.31	15.29015G	-45.81	3
VHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43453G	4.87	-25.13	1.93757G	-50.51	2.39704G	-38.52	2.4G	-46.27	2.48762G	-51.56	24.46433G	-44.88	1
2422MHz	Pass	2.43453G	4.87	-25.13	946.86M	-53.39	2.39704G	-36.77	2.4G	-42.02	2.48678G	-52.43	15.07185G	-44.98	2
2422MHz	Pass	2.43453G	4.87	-25.13	1.93757G	-52.27	2.39832G	-37.49	2.4G	-44.83	2.48674G	-51.43	24.85136G	-45.02	3
2427MHz															
2437MHz	Pass	2.43453G	4.87	-25.13	1.94959G	-46.48	2.4G	-36.47	2.4G	-37.55	2.48794G	-39.52	17.69131G	-45.65	1
2437MHz	Pass	2.43453G	4.87	-25.13	2.09673G	-53.46	2.39956G	-36.23	2.4G	-40.84	2.48354G	-44.05	17.6829G	-45.37	2
2437MHz	Pass	2.43453G	4.87	-25.13	1.94959G	-50.45	2.39988G	-38.53	2.4G	-38.35	2.48994G	-40.63	15.26536G	-45.51	3
2447MHz															
2452MHz	Pass	2.43453G	4.87	-25.13	1.96162G	-48.56	2.39704G	-49.86	2.4835G	-47.83	2.48706G	-42.47	15.02698G	-44.95	1
2452MHz	Pass	2.43453G	4.87	-25.13	902.78M	-53.13	2.39836G	-49.40	2.4835G	-44.74	2.48454G	-41.21	15.02698G	-45.29	2
2452MHz	Pass	2.43453G	4.87	-25.13	1.9619G	-50.63	2.397G	-51.34	2.4835G	-47.58	2.48486G	-45.23	24.47835G	-45.19	3

802.11b_Nss1,(1Mbps)_3TX **CSE NdB**

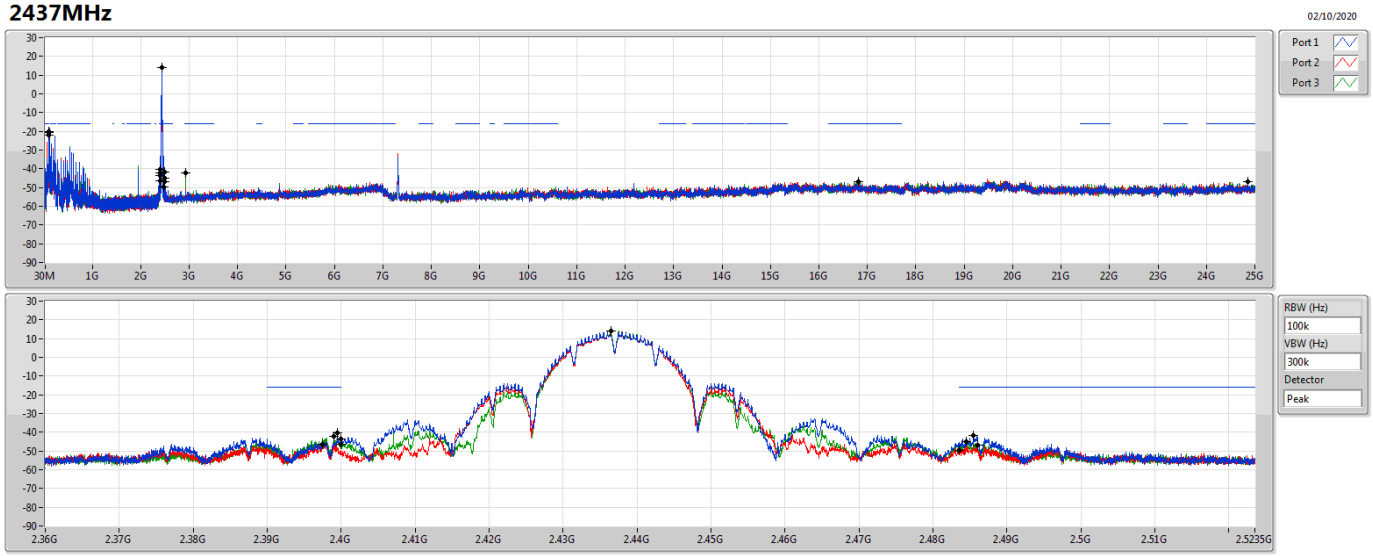
2412MHz



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
2.43649G	13.86	-16.14	95.82M	-20.68	2.39898G	-30.19	2.4G	-36.54	2.50662G	-51.61	7.23514G	-35.69	1
2.43649G	13.86	-16.14	95.82M	-20.62	2.397G	-24.72	2.4G	-32.35	2.5158G	-51.26	7.23795G	-35.42	2
2.43649G	13.86	-16.14	95.82M	-20.44	2.39702G	-32.77	2.4G	-38.66	2.49104G	-50.56	7.23514G	-33.94	3

802.11b_Nss1,(1Mbps)_3TX **CSE NdB**

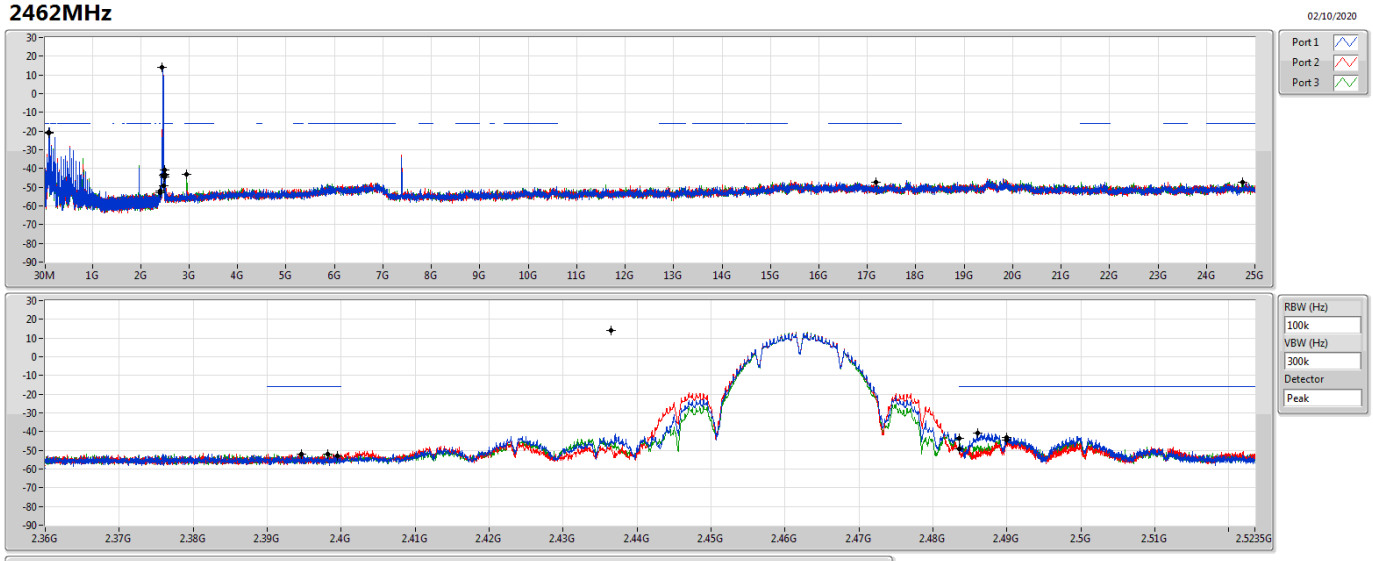
2437MHz



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
2.43649G	13.86	-16.14	95.82M	-20.55	2.3995G	-40.46	2.4G	-43.68	2.48546G	-41.62	16.80732G	-46.98	1
2.43649G	13.86	-16.14	95.82M	-22.10	2.3975G	-46.62	2.4835G	-49.50	2.48598G	-47.06	24.85952G	-46.79	2
2.43649G	13.86	-16.14	95.82M	-20.12	2.399G	-42.26	2.4G	-46.24	2.4845G	-45.19	2.92246G	-42.40	3

802.11b_Nss1,(1Mbps)_3TX **CSE NdB**

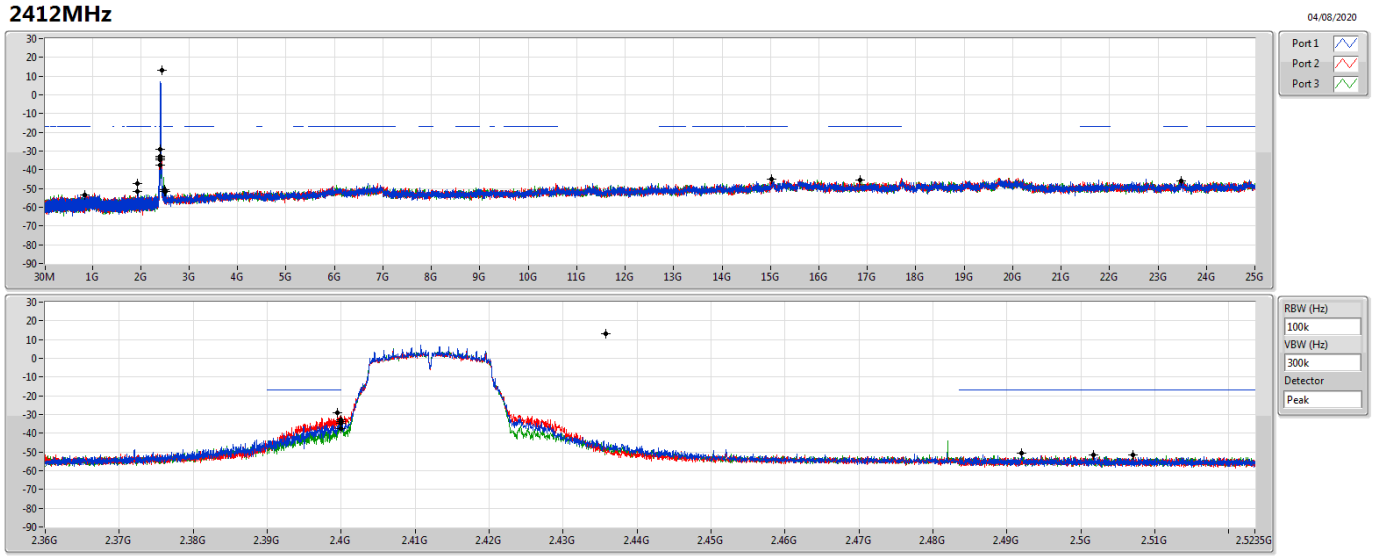
2462MHz



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
2.43649G	13.86	-16.14	95.82M	-20.50	2.39944G	-52.83	2.4835G	-43.67	2.48598G	-40.74	24.74714G	-47.17	1
2.43649G	13.86	-16.14	95.82M	-21.21	2.39458G	-51.98	2.4835G	-49.02	2.48998G	-44.40	17.18661G	-47.35	2
2.43649G	13.86	-16.14	95.82M	-20.97	2.39822G	-52.04	2.4835G	-43.40	2.48996G	-43.33	2.95336G	-43.13	3

802.11g_Nss1,(6Mbps)_3TX **CSE NdB**

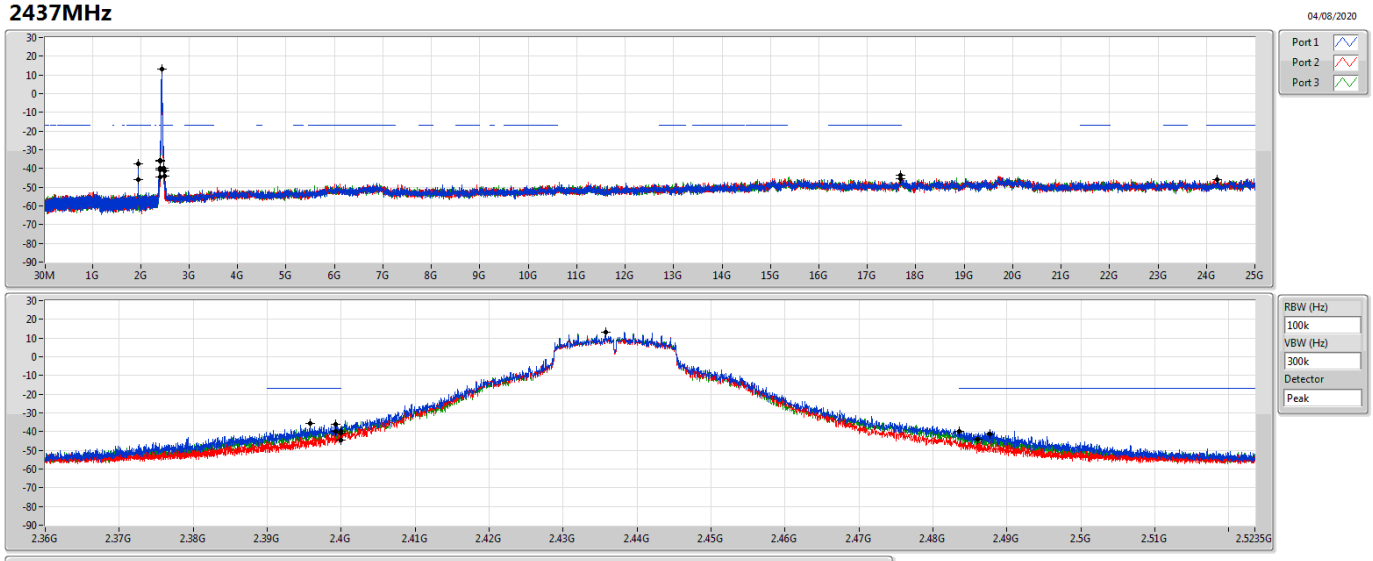
2412MHz



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
2.43578G	13.13	-16.87	1.92982G	-47.15	2.3999G	-33.04	2.4G	-34.90	2.49202G	-50.64	15.01762G	-44.92	1
2.43578G	13.13	-16.87	841.42M	-53.34	2.39954G	-28.98	2.4G	-33.94	2.50164G	-51.68	16.84384G	-45.56	2
2.43578G	13.13	-16.87	1.92982G	-51.76	2.3999G	-34.51	2.4G	-37.68	2.50704G	-51.38	23.47441G	-46.05	3

802.11g_Nss1,(6Mbps)_3TX **CSE NdB**

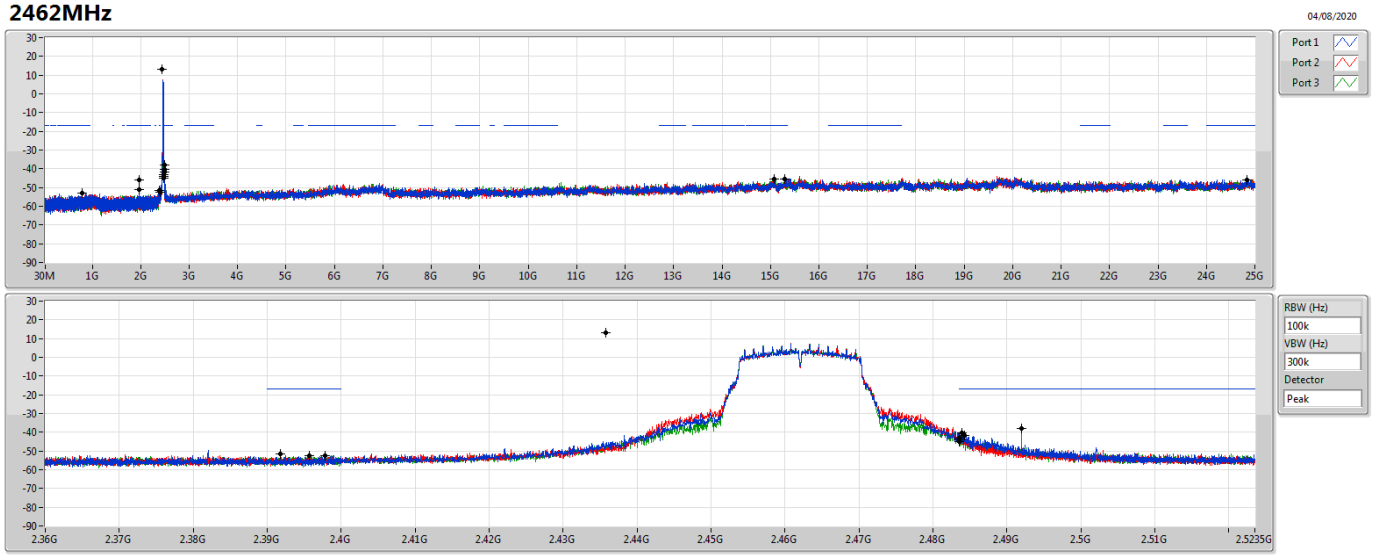
2437MHz



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
2.43578G	13.13	-16.87	1.94963G	-37.54	2.39582G	-35.48	2.4G	-39.63	2.48354G	-39.82	17.68952G	-43.75	1
2.43578G	13.13	-16.87	1.94963G	-45.86	2.39928G	-39.63	2.4G	-44.54	2.48608G	-44.13	17.6839G	-45.32	2
2.43578G	13.13	-16.87	1.94963G	-45.86	2.3993G	-36.12	2.4G	-40.61	2.48766G	-41.14	24.21613G	-45.79	3

802.11g_Nss1,(6Mbps)_3TX **CSE NdB**

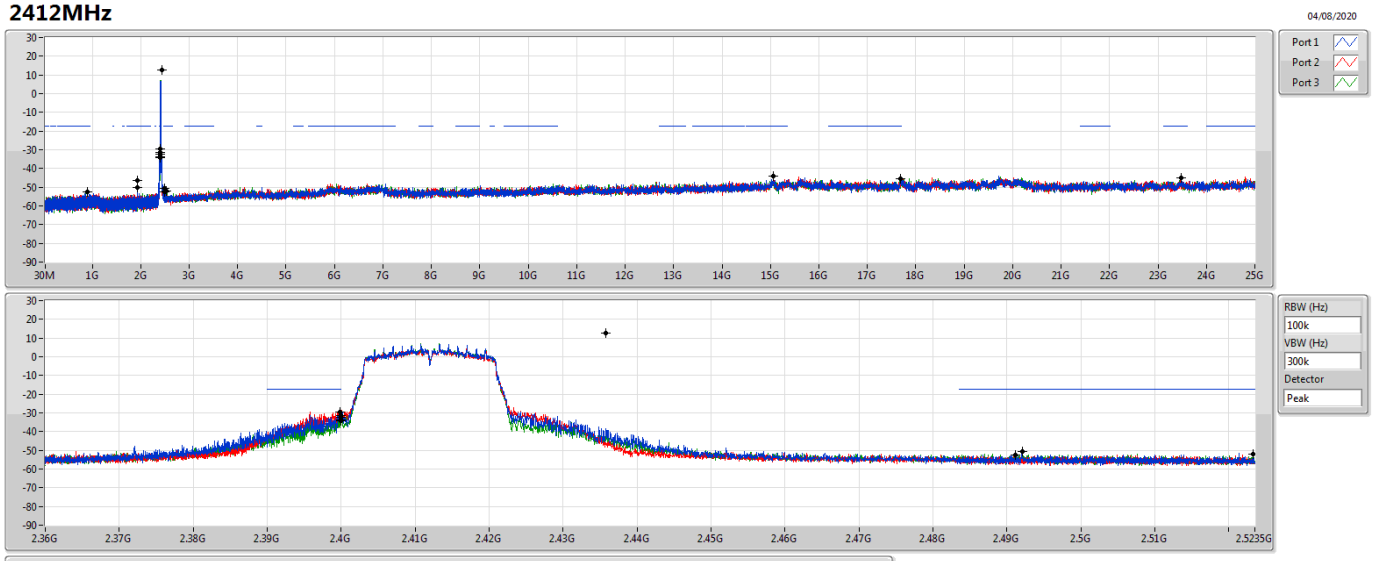
2462MHz



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
2.43578G	13.13	-16.87	1.96973G	-46.12	2.39176G	-51.34	2.4835G	-43.16	2.48422G	-41.93	15.07382G	-45.49	1
2.43578G	13.13	-16.87	782.59M	-52.93	2.39564G	-52.57	2.4835G	-44.05	2.4839G	-40.14	15.29296G	-45.61	2
2.43578G	13.13	-16.87	1.96973G	-51.12	2.39788G	-52.65	2.4835G	-45.16	2.49194G	-38.01	24.83143G	-45.79	3

VHT20_Nss1,(MCS0)_3TX **CSE NdB**

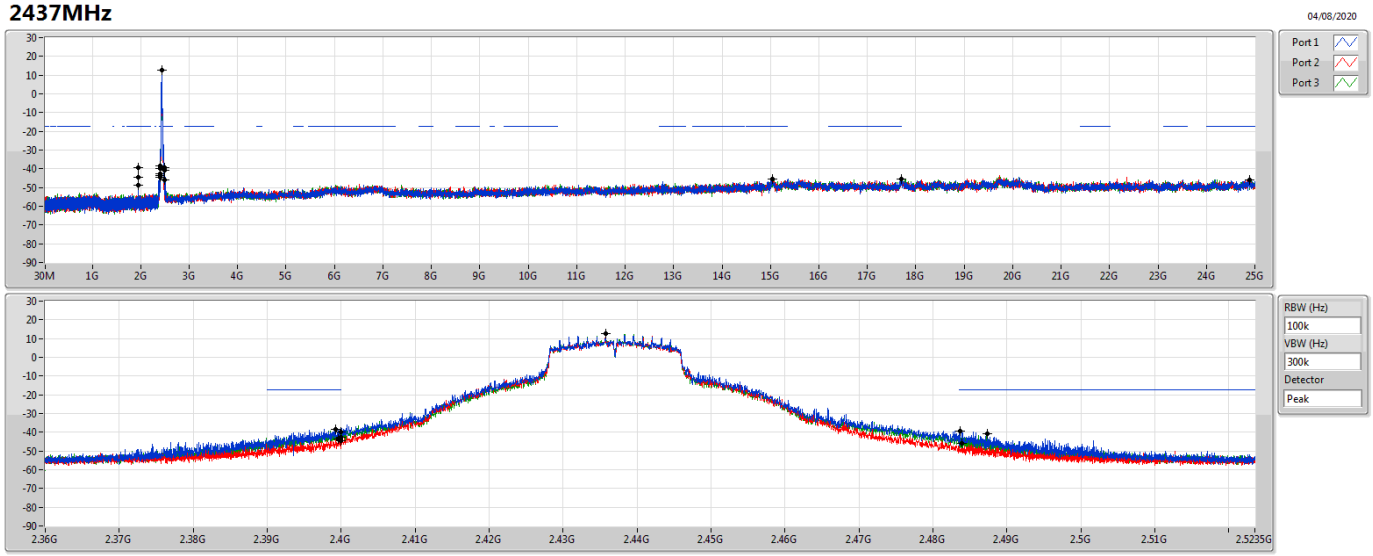
2412MHz



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
2.43578G	12.44	-17.56	1.92982G	-46.50	2.39984G	-29.64	2.4G	-33.93	2.49204G	-50.72	17.68109G	-45.56	1
2.43578G	12.44	-17.56	897.34M	-52.62	2.39986G	-29.46	2.4G	-32.11	2.49114G	-52.44	15.05415G	-44.18	2
2.43578G	12.44	-17.56	1.92982G	-50.12	2.3999G	-31.64	2.4G	-34.00	2.52322G	-52.10	23.48284G	-44.79	3

VHT20_Nss1,(MCS0)_3TX **CSE NdB**

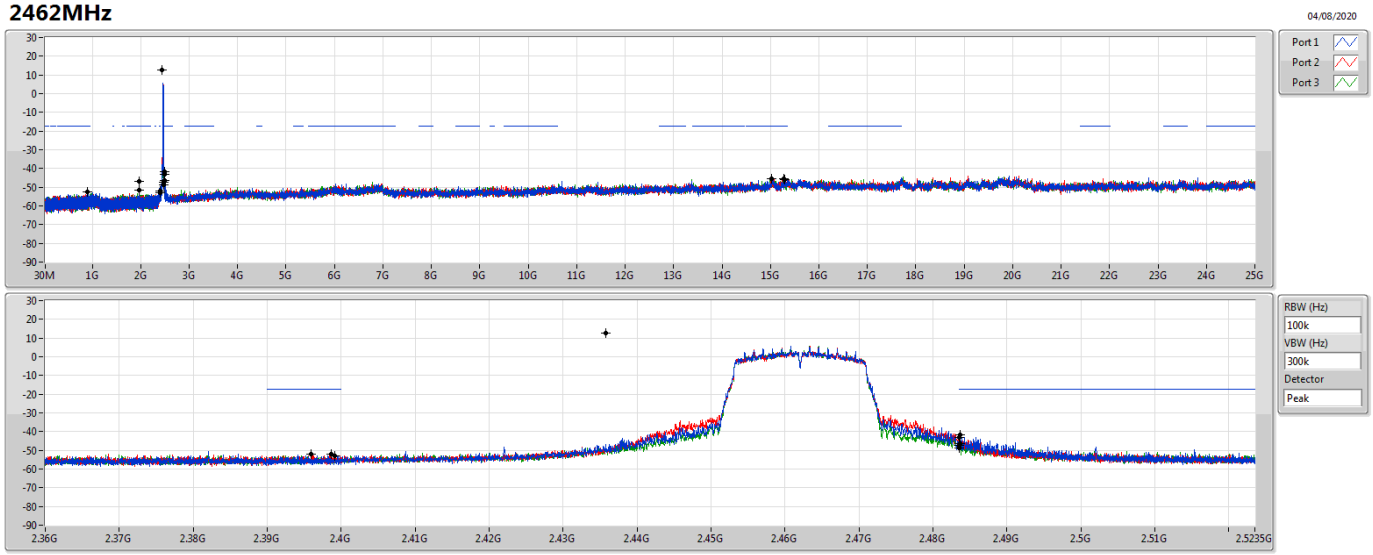
2437MHz



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
2.43578G	12.44	-17.56	1.94963G	-39.16	2.39926G	-38.27	2.4G	-39.76	2.48364G	-39.35	15.04572G	-45.31	1
2.43578G	12.44	-17.56	1.94963G	-48.83	2.39964G	-43.75	2.4G	-44.76	2.48392G	-45.72	24.89043G	-45.78	2
2.43578G	12.44	-17.56	1.94963G	-44.35	2.39928G	-38.42	2.4G	-42.81	2.4873G	-40.99	17.69795G	-45.36	3

VHT20_Nss1,(MCS0)_3TX **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
2.43578G	12.44	-17.56	1.96973G	-47.06	2.39592G	-51.98	2.4835G	-48.86	2.48362G	-41.51	15.02886G	-45.24	1
2.43578G	12.44	-17.56	902M	-52.47	2.39868G	-52.06	2.4835G	-47.57	2.48358G	-42.91	15.27049G	-45.32	2
2.43578G	12.44	-17.56	1.96973G	-51.37	2.39908G	-52.78	2.4835G	-48.97	2.48368G	-46.31	15.29015G	-45.81	3

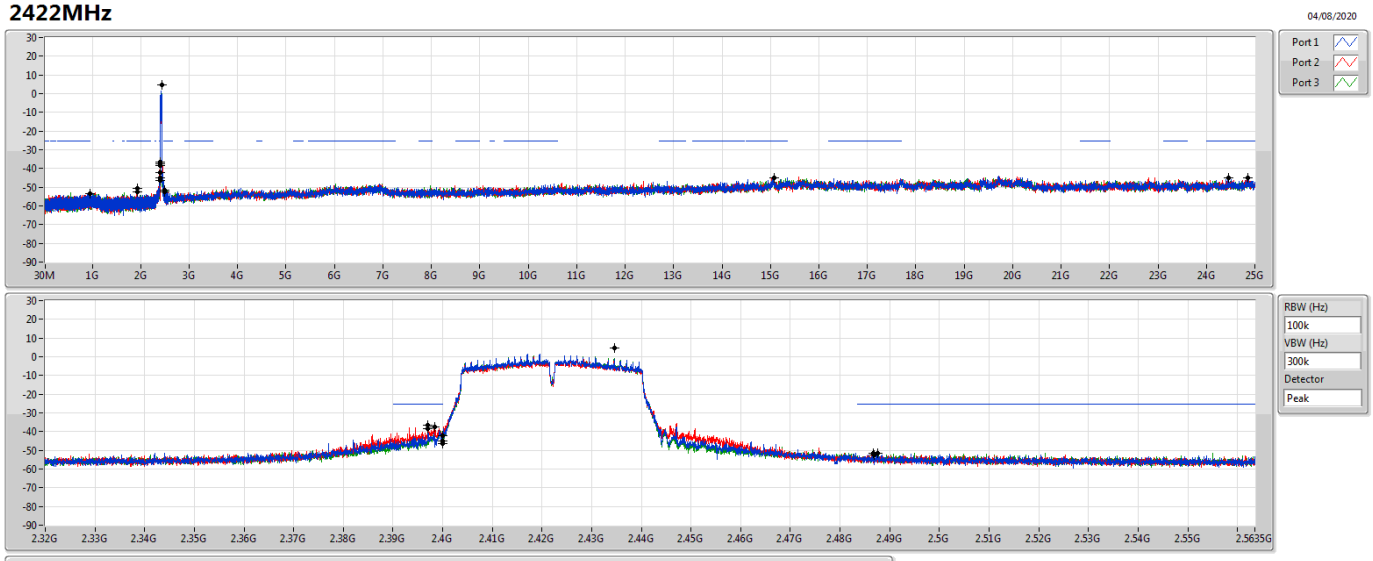
VHT40_Nss1,(MCS0)_3TX **CSE NdB**

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
2.43453G	4.87	-25.13	1.93757G	-50.51	2.39704G	-38.52	2.4G	-46.27	2.48762G	-51.56	24.46433G	-44.88	1
2.43453G	4.87	-25.13	946.86M	-53.39	2.39704G	-36.77	2.4G	-42.02	2.48678G	-52.43	15.07185G	-44.98	2
2.43453G	4.87	-25.13	1.93757G	-52.27	2.39832G	-37.49	2.4G	-44.83	2.48674G	-51.43	24.85136G	-45.02	3

VHT40_Nss1,(MCS0)_3TX **CSE NdB**

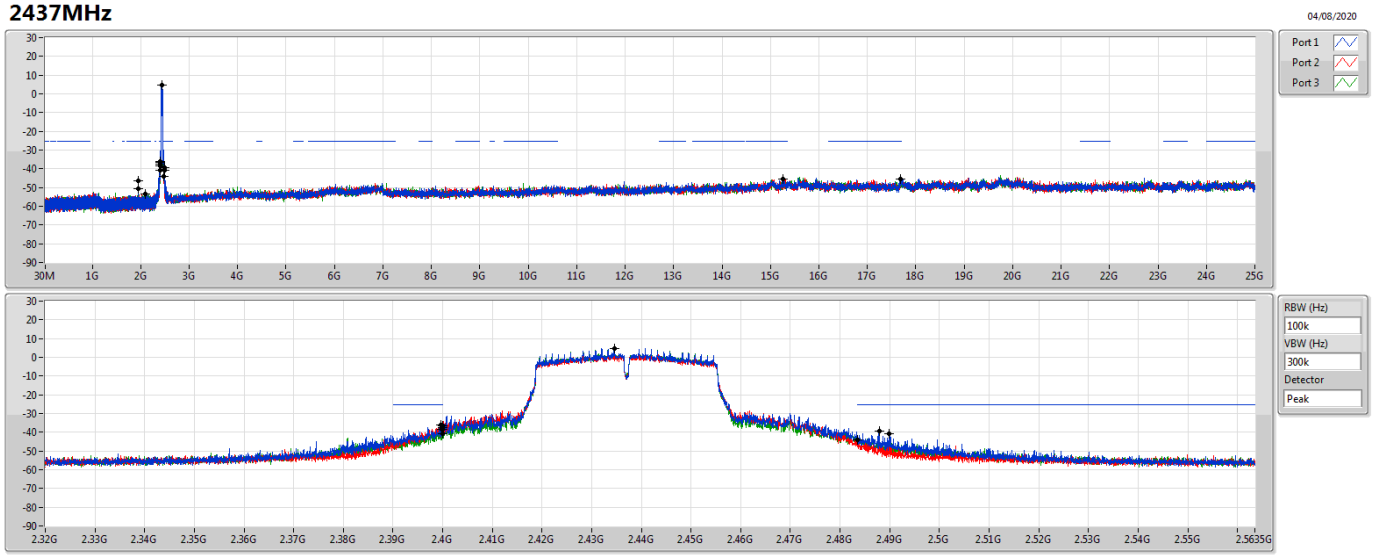
2422MHz



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
2.43453G	4.87	-25.13	1.93757G	-50.51	2.39704G	-38.52	2.4G	-46.27	2.48762G	-51.56	24.46433G	-44.88	1
2.43453G	4.87	-25.13	946.86M	-53.39	2.39704G	-36.77	2.4G	-42.02	2.48678G	-52.43	15.07185G	-44.98	2
2.43453G	4.87	-25.13	1.93757G	-52.27	2.39832G	-37.49	2.4G	-44.83	2.48674G	-51.43	24.85136G	-45.02	3

VHT40_Nss1,(MCS0)_3TX **CSE NdB**

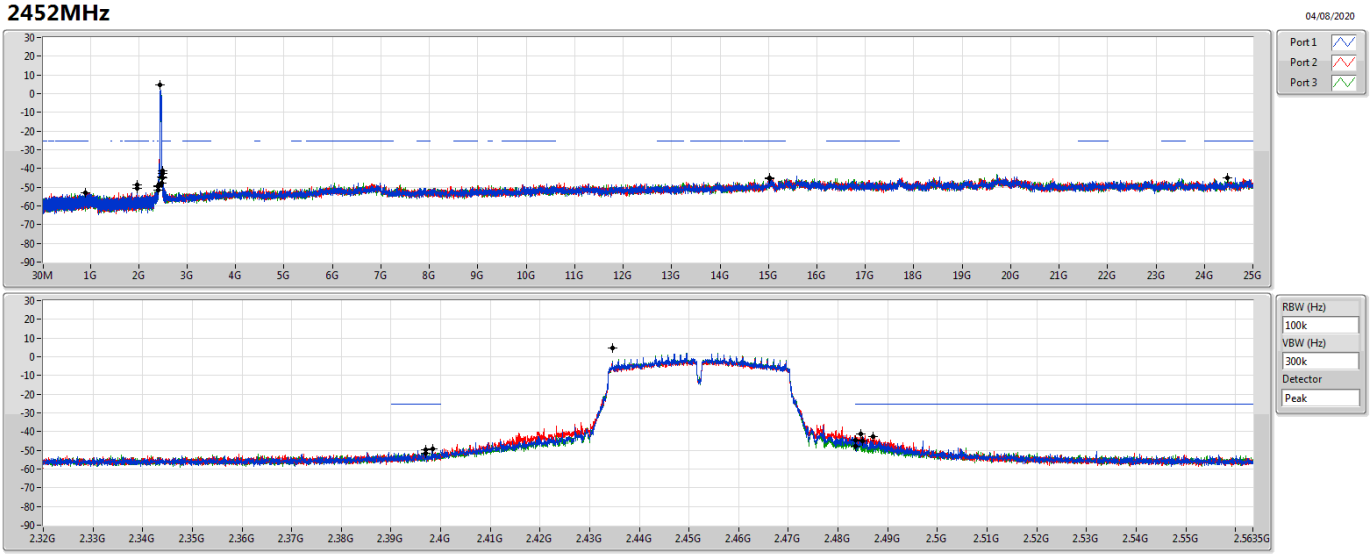
2437MHz



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
2.43453G	4.87	-25.13	1.94959G	-46.48	2.4G	-36.47	2.4G	-37.55	2.48794G	-39.52	17.69131G	-45.65	1
2.43453G	4.87	-25.13	2.09673G	-53.46	2.39956G	-36.23	2.4G	-40.84	2.48354G	-44.05	17.6829G	-45.37	2
2.43453G	4.87	-25.13	1.94959G	-50.45	2.39988G	-38.53	2.4G	-38.35	2.48994G	-40.63	15.26536G	-45.51	3

VHT40_Nss1,(MCS0)_3TX **CSE NdB**

2452MHz

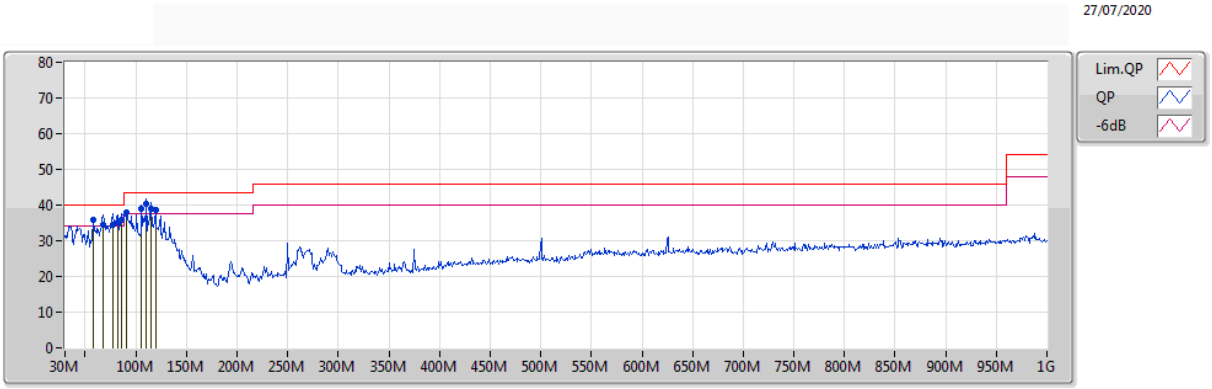


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43453G	4.87	-25.13	1.96162G	-48.56	2.39704G	-49.86	2.4835G	-47.83	2.48706G	-42.47	15.02698G	-44.95	1
2.43453G	4.87	-25.13	902.78M	-53.13	2.39836G	-49.40	2.4835G	-44.74	2.48454G	-41.21	15.02698G	-45.29	2
2.43453G	4.87	-25.13	1.9619G	-50.63	2.397G	-51.34	2.4835G	-47.58	2.48486G	-45.23	24.47835G	-45.19	3

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	QP	110.51M	40.48	43.50	-3.02	Vertical

Test Mode: Mode 2



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	58.13M	36.00	40.00	-4.00	-17.83	3	Vertical	360	1.00	-	53.83	12.80	1.16	31.79
QP	67.83M	34.41	40.00	-5.59	-18.11	3	Vertical	182	1.00	-	52.52	12.43	1.26	31.80
QP	77.53M	34.48	40.00	-5.52	-17.76	3	Vertical	182	1.00	-	52.24	12.64	1.35	31.75
QP	82.38M	35.26	40.00	-4.74	-17.18	3	Vertical	165	1.00	-	52.44	13.18	1.40	31.76
QP	86.26M	35.69	40.00	-4.31	-16.49	3	Vertical	194	1.50	-	52.18	13.91	1.40	31.80
PK	91.11M	37.94	43.50	-5.56	-15.32	3	Vertical	98	1.50	-	53.26	15.12	1.42	31.86
QP	105.66M	39.11	43.50	-4.39	-12.92	3	Vertical	89	1.50	-	52.03	17.35	1.56	31.83
QP	110.51M	40.48	43.50	-3.02	-12.27	3	Vertical	200	1.00	"Worst"	52.75	17.90	1.61	31.78
QP	114.39M	38.94	43.50	-4.56	-12.11	3	Vertical	355	1.00	-	51.05	17.98	1.65	31.74
PK	119.24M	38.60	43.50	-4.90	-11.93	3	Vertical	227	1.00	-	50.53	18.08	1.69	31.70

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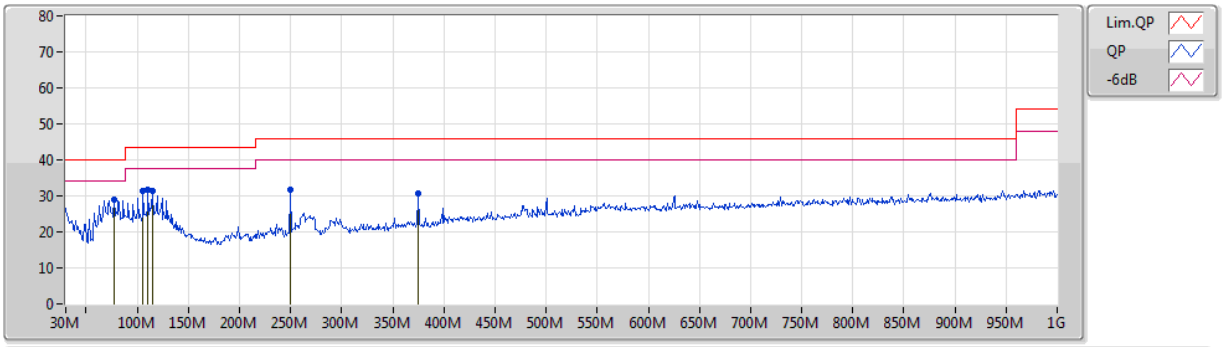
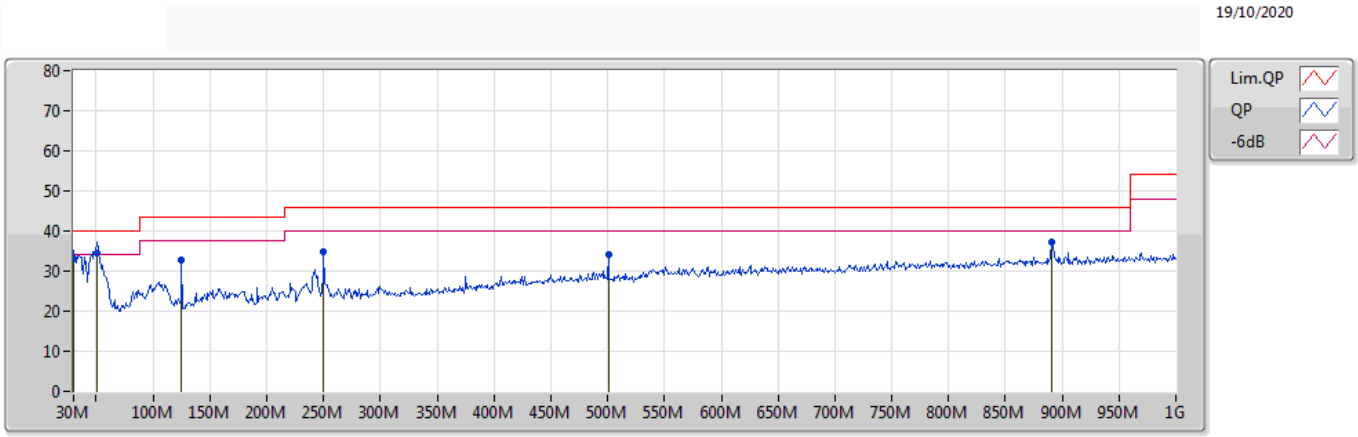


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	77.53M	28.88	40.00	-11.12	-17.76	3	Horizontal	11	1.50	"Worst"	46.64	12.64	1.35	31.75
PK	105.66M	31.52	43.50	-11.98	-12.92	3	Horizontal	4	2.00	-	44.44	17.35	1.56	31.83
PK	110.51M	31.66	43.50	-11.84	-12.27	3	Horizontal	193	1.50	-	43.93	17.90	1.61	31.78
PK	114.39M	31.30	43.50	-12.20	-12.11	3	Horizontal	237	1.50	-	43.41	17.98	1.65	31.74
PK	250.19M	31.61	46.00	-14.39	-11.98	3	Horizontal	0	1.50	-	43.59	17.77	2.20	31.95
PK	375.32M	30.61	46.00	-15.39	-9.09	3	Horizontal	0	1.00	-	39.70	20.23	2.75	32.07

Summary

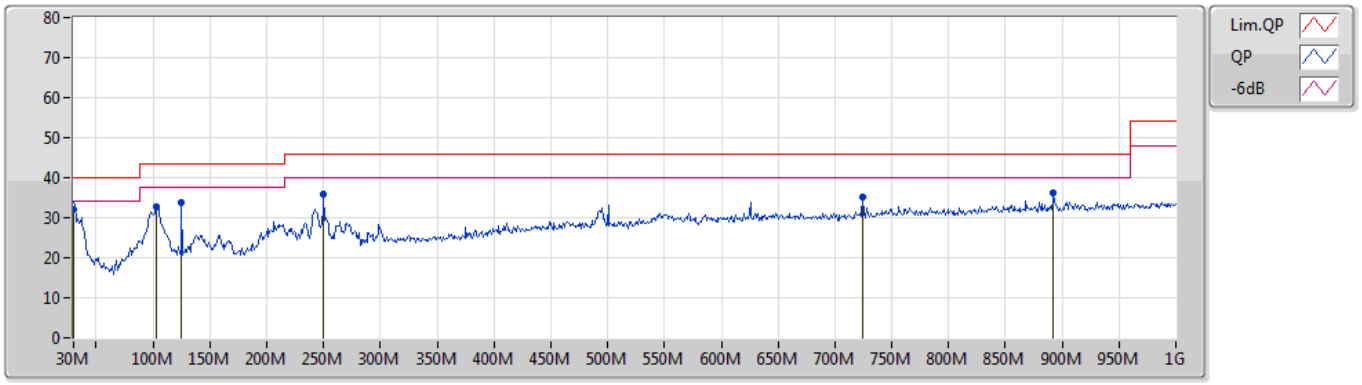
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	QP	50.37M	34.40	40.00	-5.60	Vertical

Test Mode: Mode 2



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	30M	33.12	40.00	-6.88	-3.67	3	Vertical	12	3.00	-	36.79	24.57	0.20	28.44
QP	50.37M	34.40	40.00	-5.60	-14.07	3	Vertical	14	1.25	"Worst"	48.47	14.20	0.40	28.67
PK	125.06M	32.64	43.50	-10.86	-9.49	3	Vertical	145	1.00	-	42.13	17.91	0.95	28.35
PK	250.19M	34.95	46.00	-11.05	-7.96	3	Vertical	41	1.00	-	42.91	18.46	1.50	27.92
PK	500.45M	34.10	46.00	-11.90	-3.21	3	Vertical	96	1.25	-	37.31	23.53	2.50	29.24
PK	890.39M	37.09	46.00	-8.91	1.13	3	Vertical	5	1.25	-	35.96	26.46	3.48	28.81

19/10/2020

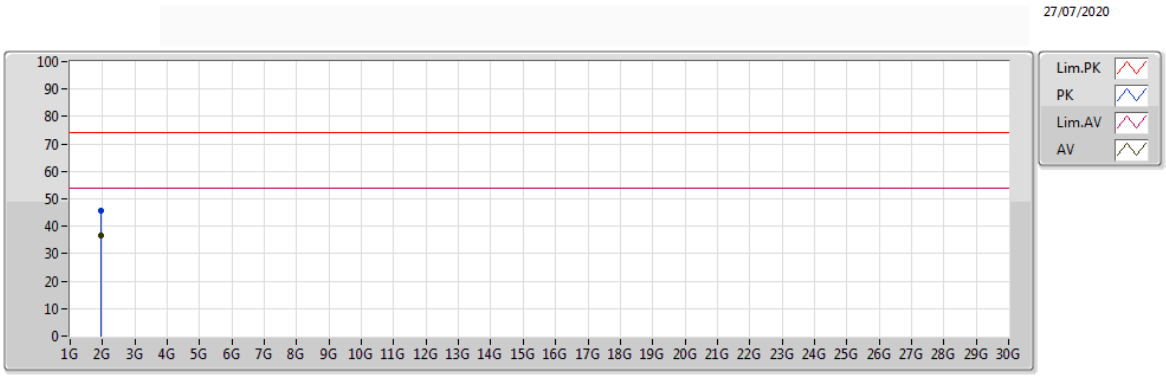


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	30M	32.21	40.00	-7.79	-3.67	3	Horizontal	301	3.00	"Worst"	35.88	24.57	0.20	28.44
PK	102.75M	32.61	43.50	-10.89	-10.74	3	Horizontal	245	3.00	-	43.35	17.06	0.73	28.53
PK	125.06M	33.77	43.50	-9.73	-9.49	3	Horizontal	253	3.00	-	43.26	17.91	0.95	28.35
PK	250.19M	35.95	46.00	-10.05	-7.96	3	Horizontal	115	1.25	-	43.91	18.46	1.50	27.92
PK	724.52M	35.23	46.00	-10.77	-0.70	3	Horizontal	303	1.00	-	35.93	25.49	3.10	29.29
PK	892.33M	36.32	46.00	-9.68	1.11	3	Horizontal	238	1.50	-	35.21	26.43	3.48	28.80

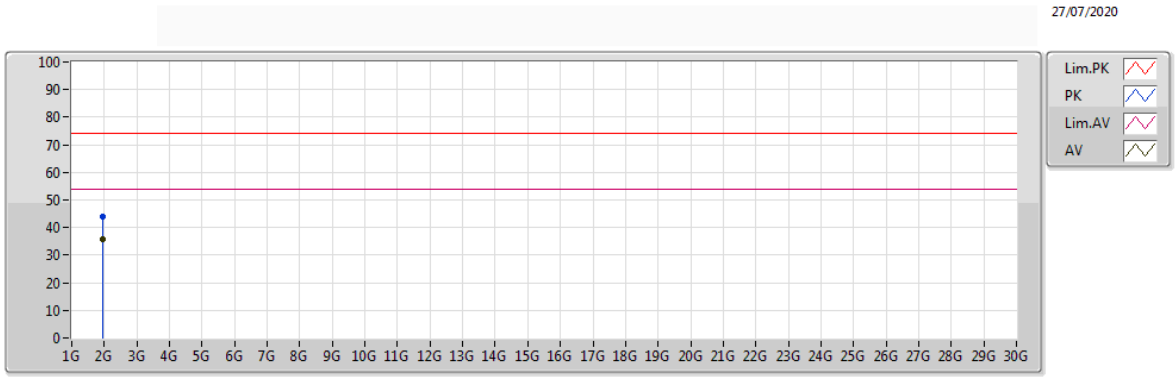
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.95338G	36.51	54.00	-17.49	Vertical

Test Mode: Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	1.95366G	45.52	74.00	-28.48	-6.78	3	Vertical	325	1.00	-	52.30	25.77	3.85	36.40
AV	1.95338G	36.51	54.00	-17.49	-6.78	3	Vertical	325	1.00	"Worst"	43.29	25.77	3.85	36.40



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	1.95387G	43.80	74.00	-30.20	-6.78	3	Horizontal	183	1.25	-	50.58	25.77	3.85	36.40
AV	1.95347G	35.78	54.00	-18.22	-6.78	3	Horizontal	183	1.25	"Worst"	42.56	25.77	3.85	36.40

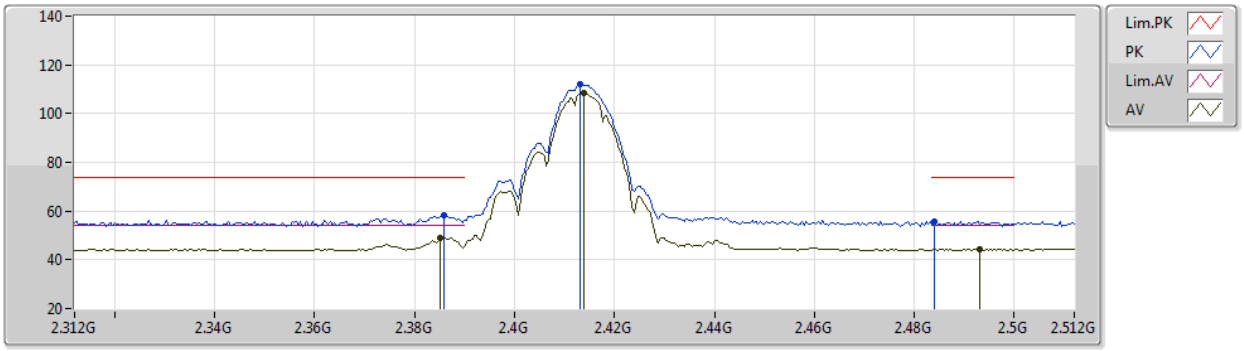
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
VHT40_Nss1,(MCS0)_3TX	Pass	AV	2.3894G	53.98	54.00	-0.02	3	Horizontal	83	2.74	-

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

18/09/2020



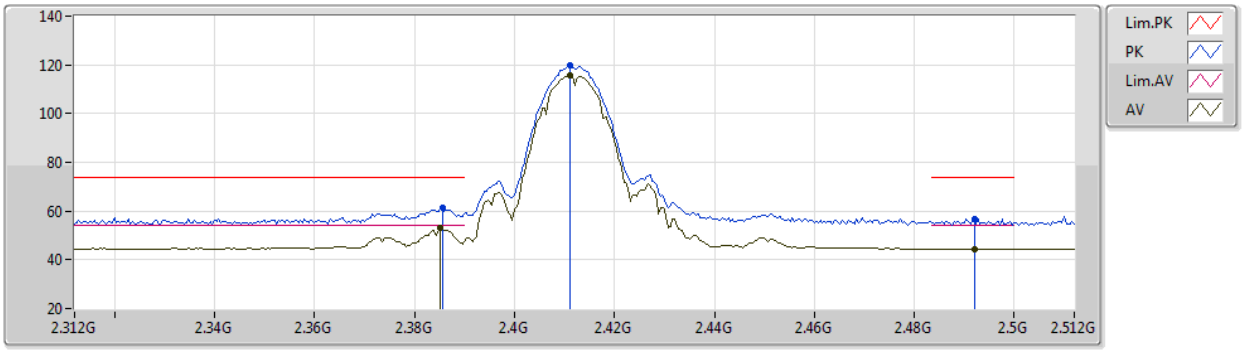
EUT Z_3TX
Setting 42
04-D-P-2

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	2.386G	58.47	74.00	-15.53	27.67	3	Vertical	159	2.58	-	27.51	3.29	-
AV	2.3852G	48.98	54.00	-5.02	18.18	3	Vertical	159	2.58	-	27.51	3.29	-
PK	2.4132G	112.15	Inf	-Inf	81.29	3	Vertical	159	2.58	-	27.55	3.31	-
AV	2.414G	108.49	Inf	-Inf	77.62	3	Vertical	159	2.58	-	27.56	3.31	-
PK	2.484G	55.79	74.00	-18.21	24.61	3	Vertical	159	2.58	-	27.84	3.34	-
AV	2.4932G	44.23	54.00	-9.77	13.01	3	Vertical	159	2.58	-	27.87	3.35	-

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

18/09/2020



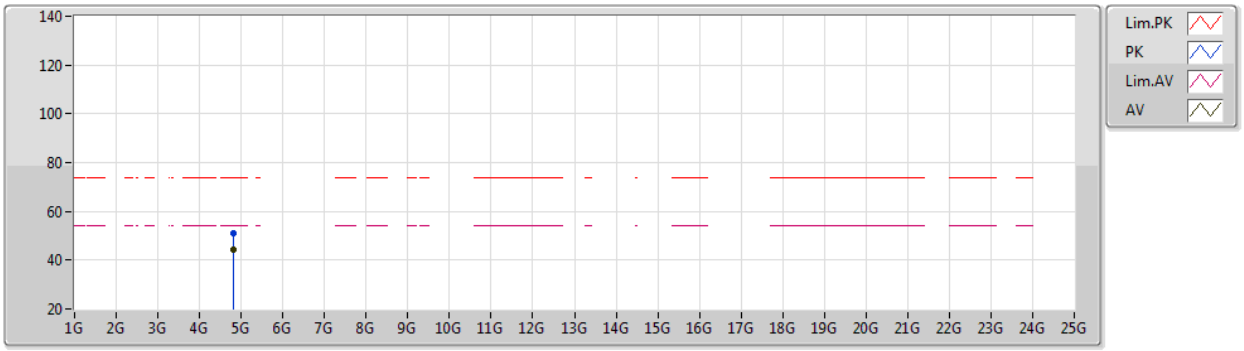
EUT Z_3TX
Setting 42
04-D-P-2

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	61.26	74.00	-12.74	30.46	3	Horizontal	268	1.45	-	27.51	3.29	-
AV	2.3852G	53.32	54.00	-0.68	22.52	3	Horizontal	268	1.45	-	27.51	3.29	-
PK	2.4112G	119.60	Inf	-Inf	88.75	3	Horizontal	268	1.45	-	27.54	3.31	-
AV	2.4112G	115.86	Inf	-Inf	85.01	3	Horizontal	268	1.45	-	27.54	3.31	-
PK	2.492G	56.66	74.00	-17.34	25.44	3	Horizontal	268	1.45	-	27.87	3.35	-
AV	2.492G	44.52	54.00	-9.48	13.30	3	Horizontal	268	1.45	-	27.87	3.35	-

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

18/09/2020



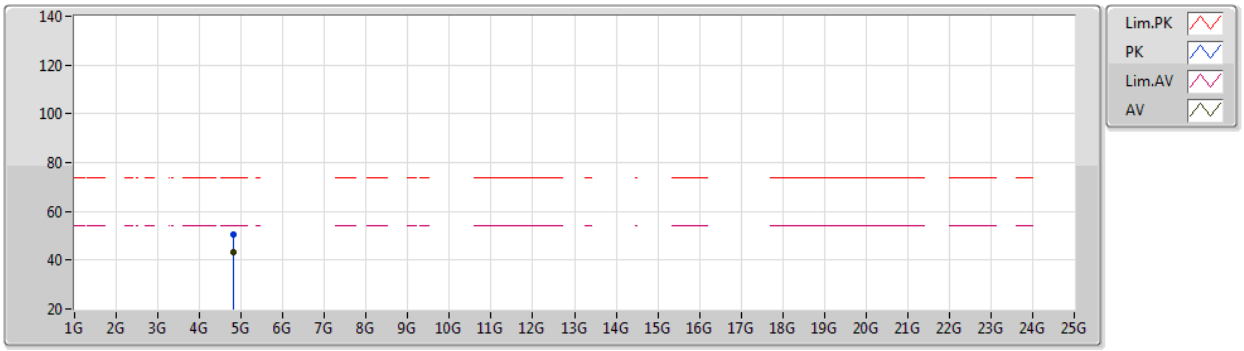
EUT Z_3TX
Setting 42
04-D-P-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82392G	50.87	74.00	-23.13	46.33	3	Vertical	66	2.17	-	32.60	4.82	32.88
AV	4.824G	44.54	54.00	-9.46	40.00	3	Vertical	66	2.17	-	32.60	4.82	32.88

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

18/09/2020



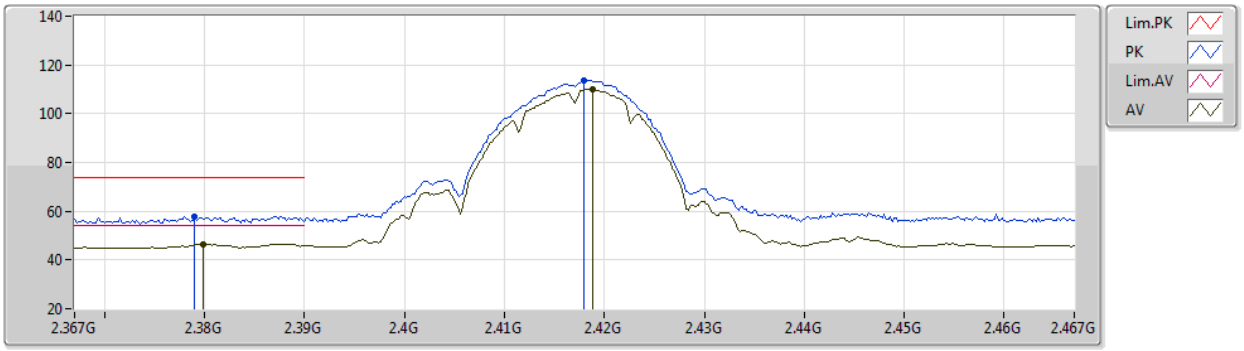
EUT Z_3TX
Setting 42
04-D-P-2

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	4.82413G	50.60	74.00	-23.40	46.06	3	Horizontal	66	1.83	-	32.60	4.82	32.88
AV	4.82399G	43.51	54.00	-10.49	38.97	3	Horizontal	66	1.83	-	32.60	4.82	32.88

802.11b_Nss1,(1Mbps)_3TX

2417MHz_TX

18/09/2020



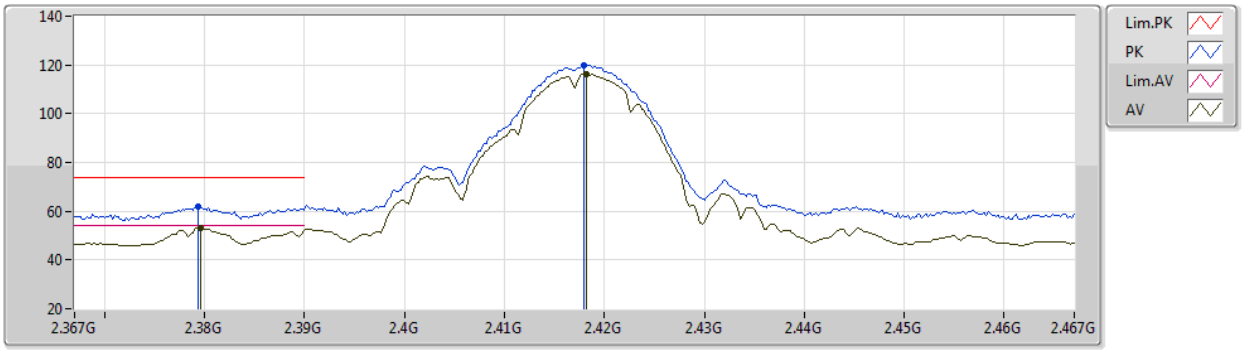
EUT Z_3TX
Setting 42
03-C-J-7

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	2.379G	57.90	74.00	-16.10	25.81	3	Vertical	41	1.79	-	28.10	3.99	-
AV	2.3798G	46.63	54.00	-7.37	14.54	3	Vertical	41	1.79	-	28.10	3.99	-
PK	2.418G	113.81	Inf	-Inf	81.64	3	Vertical	41	1.79	-	28.14	4.03	-
AV	2.4188G	110.05	Inf	-Inf	77.88	3	Vertical	41	1.79	-	28.14	4.03	-

802.11b_Nss1,(1Mbps)_3TX

2417MHz_TX

18/09/2020



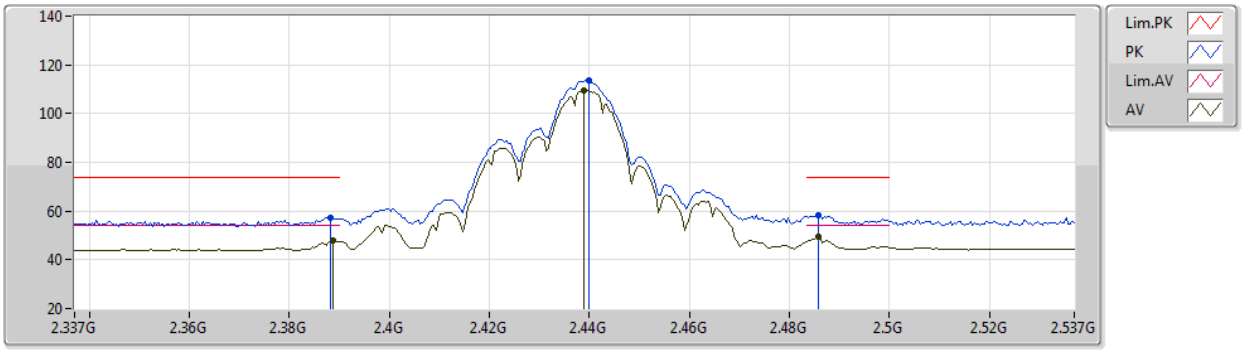
EUT Z_3TX
Setting 42
03-C-J-7

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	2.3794G	61.72	74.00	-12.28	29.63	3	Horizontal	15	1.41	-	28.10	3.99	-
AV	2.3796G	53.23	54.00	-0.77	21.14	3	Horizontal	15	1.41	-	28.10	3.99	-
PK	2.418G	120.02	Inf	-Inf	87.85	3	Horizontal	15	1.41	-	28.14	4.03	-
AV	2.4182G	115.99	Inf	-Inf	83.82	3	Horizontal	15	1.41	-	28.14	4.03	-

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

18/09/2020



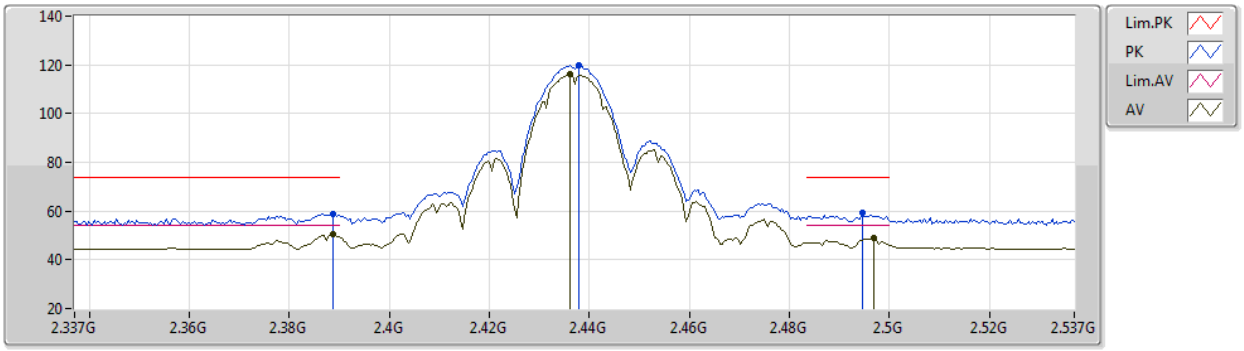
EUT Z_3TX
Setting 47
04-D-P-2

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	57.26	74.00	-16.74	26.46	3	Vertical	160	2.53	-	27.51	3.29	-
AV	2.3886G	47.76	54.00	-6.24	16.96	3	Vertical	160	2.53	-	27.51	3.29	-
PK	2.4398G	113.43	Inf	-Inf	82.45	3	Vertical	160	2.53	-	27.66	3.32	-
AV	2.439G	109.73	Inf	-Inf	78.75	3	Vertical	160	2.53	-	27.66	3.32	-
PK	2.4858G	58.12	74.00	-15.88	26.94	3	Vertical	160	2.53	-	27.84	3.34	-
AV	2.4858G	49.38	54.00	-4.62	18.20	3	Vertical	160	2.53	-	27.84	3.34	-

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

18/09/2020



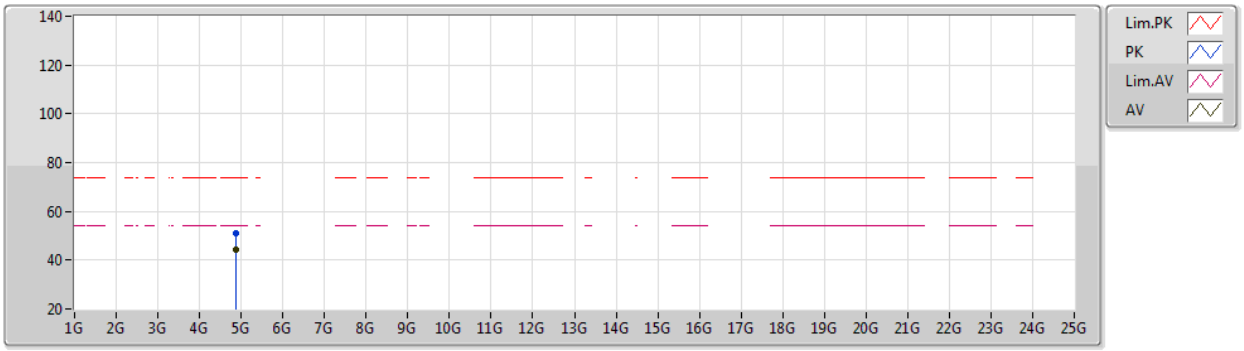
EUT Z_3TX
Setting 47
04-D-P-2

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	58.60	74.00	-15.40	27.80	3	Horizontal	295	1.19	-	27.51	3.29	-
AV	2.3886G	50.30	54.00	-3.70	19.50	3	Horizontal	295	1.19	-	27.51	3.29	-
PK	2.4378G	119.73	Inf	-Inf	88.76	3	Horizontal	295	1.19	-	27.65	3.32	-
AV	2.4362G	116.05	Inf	-Inf	85.09	3	Horizontal	295	1.19	-	27.64	3.32	-
PK	2.4946G	59.34	74.00	-14.66	28.11	3	Horizontal	295	1.19	-	27.88	3.35	-
AV	2.497G	48.87	54.00	-5.13	17.63	3	Horizontal	295	1.19	-	27.89	3.35	-

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

18/09/2020



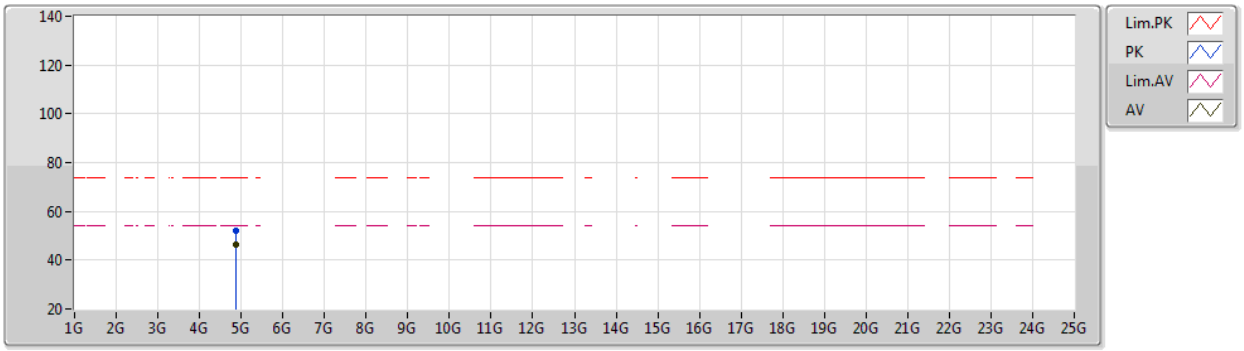
EUT Z_3TX
Setting 47
04-D-P-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87398G	51.06	74.00	-22.94	46.28	3	Vertical	169	1.23	-	32.80	4.85	32.87
AV	4.87402G	44.40	54.00	-9.60	39.62	3	Vertical	169	1.23	-	32.80	4.85	32.87

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

18/09/2020



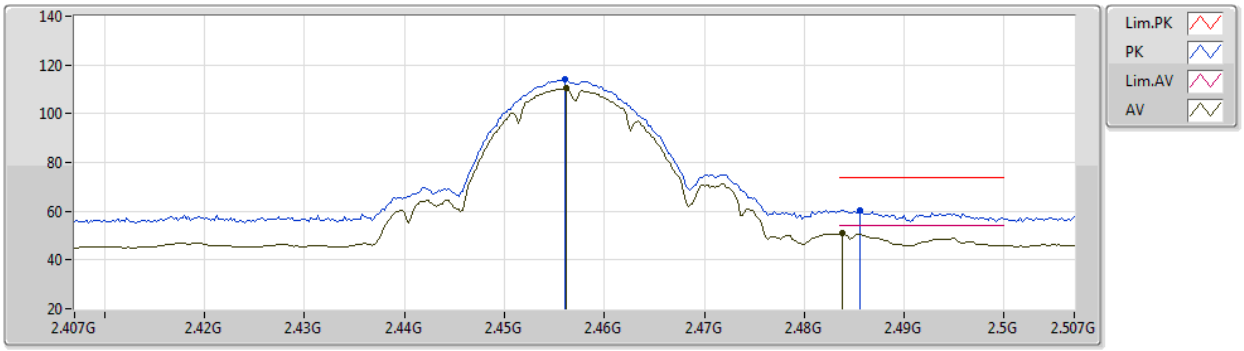
EUT Z_3TX
Setting 47
04-D-P-2

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	4.87396G	52.23	74.00	-21.77	47.45	3	Horizontal	338	2.16	-	32.80	4.85	32.87
AV	4.87403G	46.22	54.00	-7.78	41.44	3	Horizontal	338	2.16	-	32.80	4.85	32.87

802.11b_Nss1,(1Mbps)_3TX

2457MHz_TX

18/09/2020



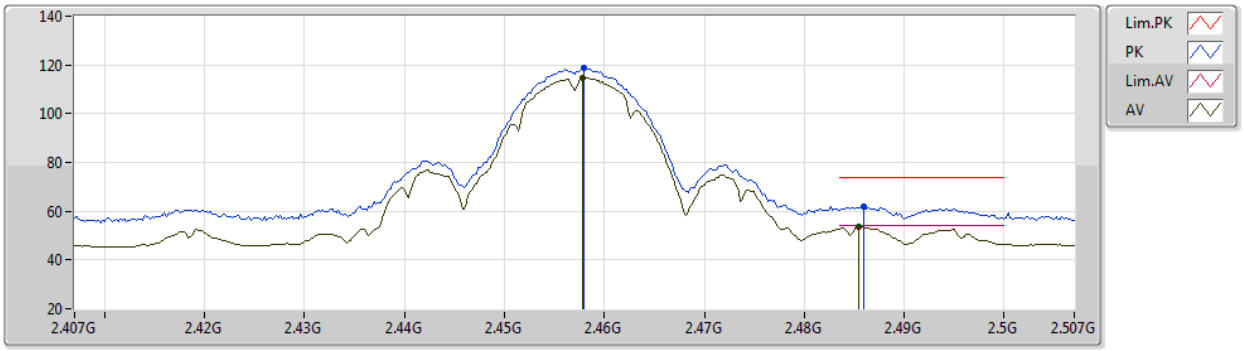
EUT Z_3TX
Setting 44
03-C-J-7

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	2.456G	114.07	Inf	-Inf	81.75	3	Vertical	44	1.67	-	28.24	4.08	-
AV	2.4562G	110.27	Inf	-Inf	77.95	3	Vertical	44	1.67	-	28.24	4.08	-
PK	2.4856G	60.34	74.00	-13.66	27.80	3	Vertical	44	1.67	-	28.41	4.13	-
AV	2.4838G	51.23	54.00	-2.77	18.70	3	Vertical	44	1.67	-	28.40	4.13	-

802.11b_Nss1,(1Mbps)_3TX

2457MHz_TX

18/09/2020



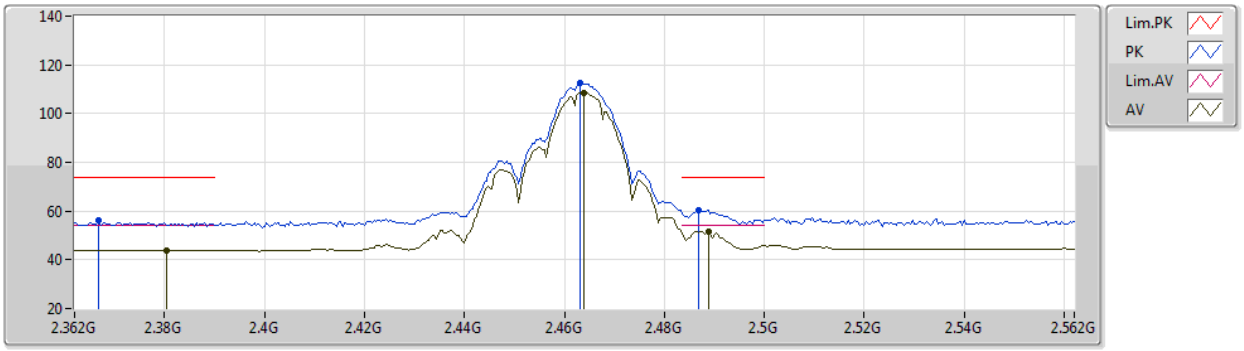
EUT Z_3TX
Setting 44
03-C-J-7

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	2.458G	118.60	Inf	-Inf	86.26	3	Horizontal	310	2.00	-	28.25	4.09	-
AV	2.4578G	114.63	Inf	-Inf	82.29	3	Horizontal	310	2.00	-	28.25	4.09	-
PK	2.486G	61.97	74.00	-12.03	29.42	3	Horizontal	310	2.00	-	28.42	4.13	-
AV	2.4854G	53.76	54.00	-0.24	21.22	3	Horizontal	310	2.00	-	28.41	4.13	-

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

18/09/2020



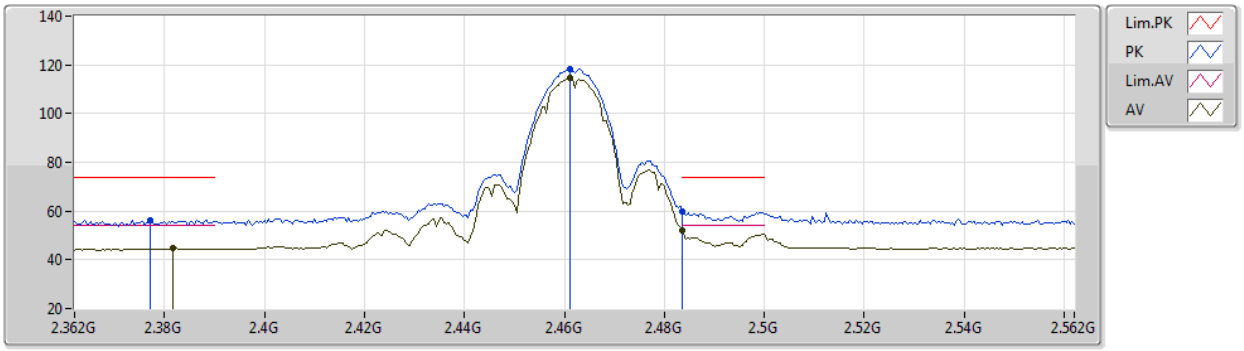
EUT Z_3TX
Setting 44
04-D-P-2

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	2.3668G	56.07	74.00	-17.93	25.27	3	Vertical	165	2.47	-	27.53	3.27	-
AV	2.3804G	44.03	54.00	-9.97	13.23	3	Vertical	165	2.47	-	27.52	3.28	-
PK	2.4632G	112.41	Inf	-Inf	81.33	3	Vertical	165	2.47	-	27.75	3.33	-
AV	2.464G	108.70	Inf	-Inf	77.61	3	Vertical	165	2.47	-	27.76	3.33	-
PK	2.4868G	60.46	74.00	-13.54	29.27	3	Vertical	165	2.47	-	27.85	3.34	-
AV	2.4888G	51.68	54.00	-2.32	20.48	3	Vertical	165	2.47	-	27.86	3.34	-

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

18/09/2020



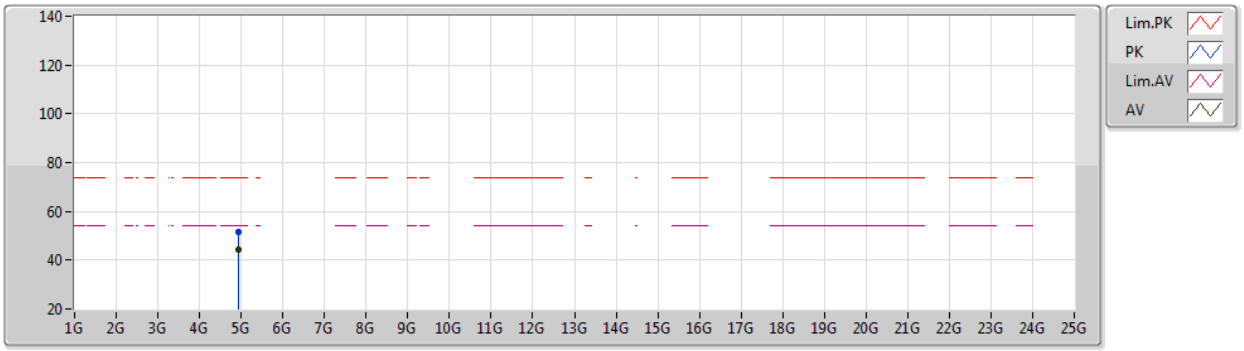
EUT Z_3TX
Setting 44
04-D-P-2

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	2.3772G	56.14	74.00	-17.86	25.34	3	Horizontal	278	1.46	-	27.52	3.28	-
AV	2.3816G	44.81	54.00	-9.19	14.01	3	Horizontal	278	1.46	-	27.52	3.28	-
PK	2.4612G	118.36	Inf	-Inf	87.29	3	Horizontal	278	1.46	-	27.74	3.33	-
AV	2.4612G	114.64	Inf	-Inf	83.57	3	Horizontal	278	1.46	-	27.74	3.33	-
PK	2.4835G	59.58	74.00	-14.42	28.41	3	Horizontal	278	1.46	-	27.83	3.34	-
AV	2.4835G	52.00	54.00	-2.00	20.83	3	Horizontal	278	1.46	-	27.83	3.34	-

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

18/09/2020



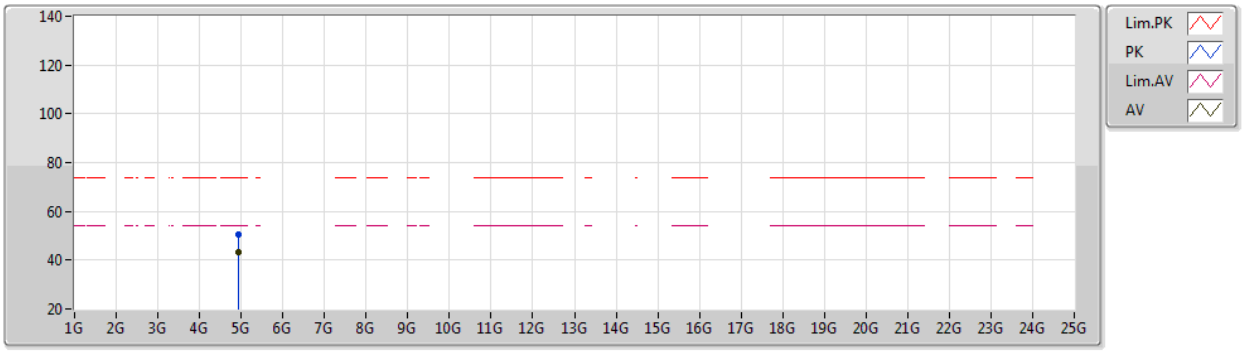
EUT Z_3TX
Setting 44
04-D-P-2

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	4.92408G	51.47	74.00	-22.53	46.51	3	Vertical	69	2.20	-	32.95	4.88	32.87
AV	4.92401G	44.45	54.00	-9.55	39.49	3	Vertical	69	2.20	-	32.95	4.88	32.87

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

18/09/2020



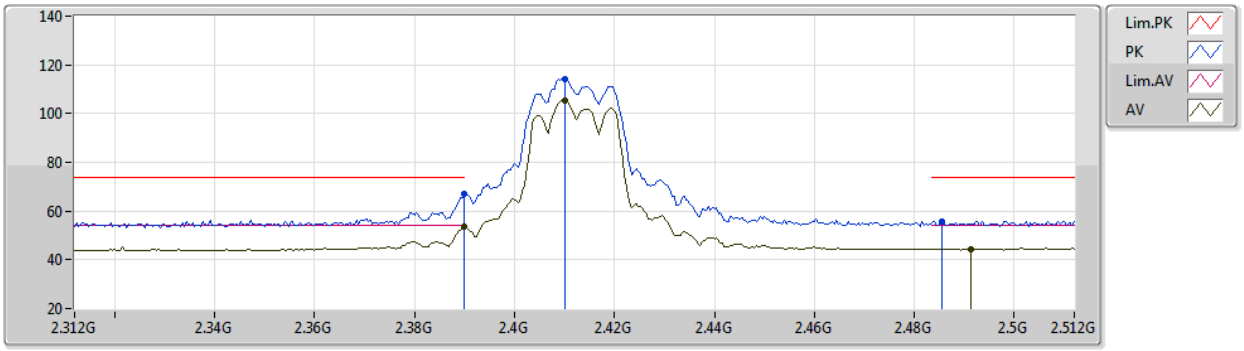
EUT Z_3TX
Setting 44
04-D-P-2

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	4.92408G	50.66	74.00	-23.34	45.70	3	Horizontal	338	2.22	-	32.95	4.88	32.87
AV	4.92407G	43.44	54.00	-10.56	38.48	3	Horizontal	338	2.22	-	32.95	4.88	32.87

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

31/07/2020



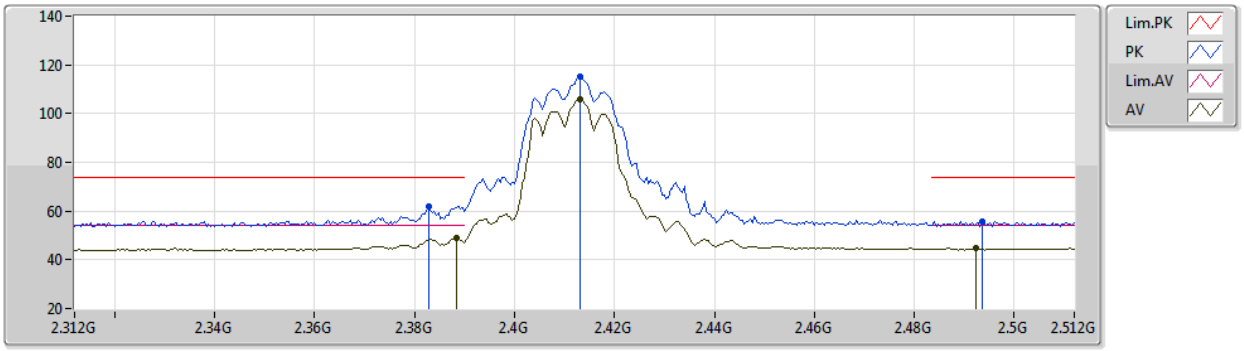
EUT Z_3TX
Setting 31
04-E-P-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	67.00	74.00	-7.00	36.64	3	Vertical	352	2.89	-	27.51	2.85	-
AV	2.39G	53.52	54.00	-0.48	23.16	3	Vertical	352	2.89	-	27.51	2.85	-
PK	2.41G	114.26	Inf	-Inf	83.85	3	Vertical	352	2.89	-	27.54	2.87	-
AV	2.41G	105.16	Inf	-Inf	74.75	3	Vertical	352	2.89	-	27.54	2.87	-
PK	2.4856G	55.94	74.00	-18.06	25.19	3	Vertical	352	2.89	-	27.84	2.91	-
AV	2.4912G	44.52	54.00	-9.48	13.75	3	Vertical	352	2.89	-	27.86	2.91	-

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

31/07/2020



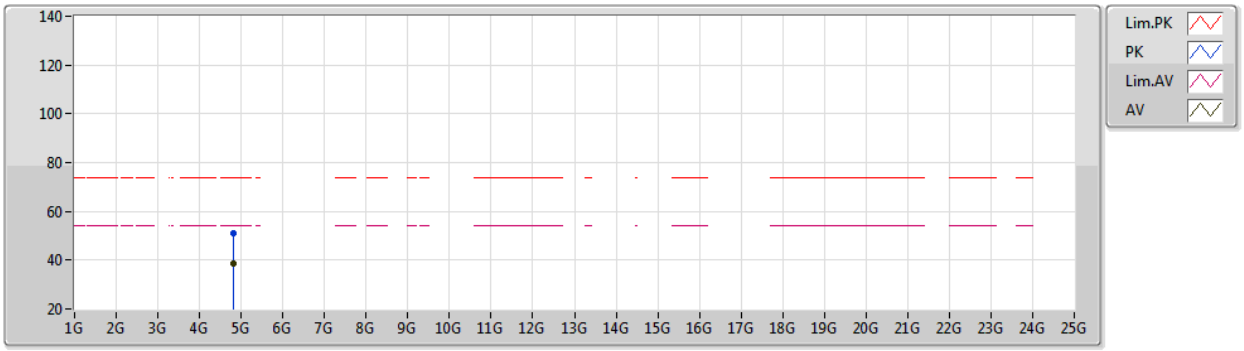
EUT Z_3TX
Setting 31
04-E-P-2

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	2.3828G	62.15	74.00	-11.85	31.78	3	Horizontal	34	2.53	-	27.52	2.85	-
AV	2.3884G	48.72	54.00	-5.28	18.36	3	Horizontal	34	2.53	-	27.51	2.85	-
PK	2.4132G	115.30	Inf	-Inf	84.88	3	Horizontal	34	2.53	-	27.55	2.87	-
AV	2.4132G	106.05	Inf	-Inf	75.63	3	Horizontal	34	2.53	-	27.55	2.87	-
PK	2.4936G	55.63	74.00	-18.37	24.84	3	Horizontal	34	2.53	-	27.87	2.92	-
AV	2.4924G	44.61	54.00	-9.39	13.82	3	Horizontal	34	2.53	-	27.87	2.92	-

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

31/07/2020



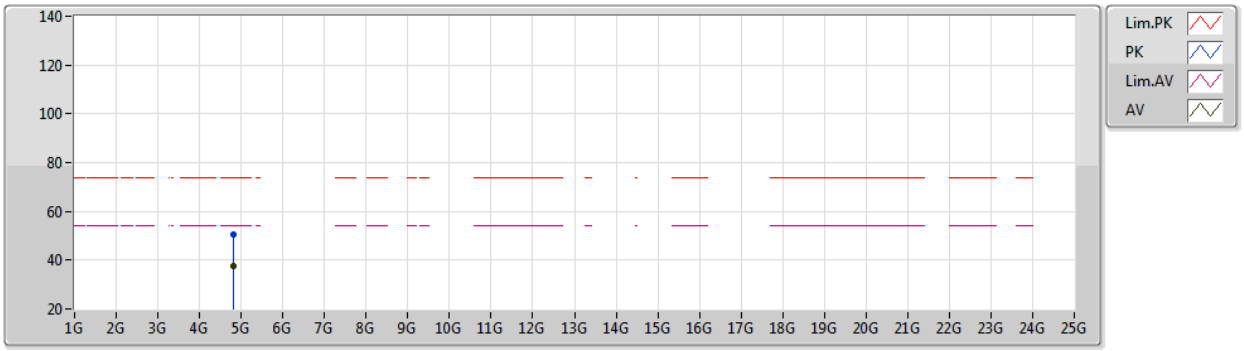
EUT Z_3TX
Setting 31
04-E-P-2

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	4.82372G	51.22	74.00	-22.78	46.58	3	Vertical	71	1.00	-	32.59	4.93	32.88
AV	4.82412G	38.50	54.00	-15.50	33.85	3	Vertical	71	1.00	-	32.60	4.93	32.88

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

31/07/2020



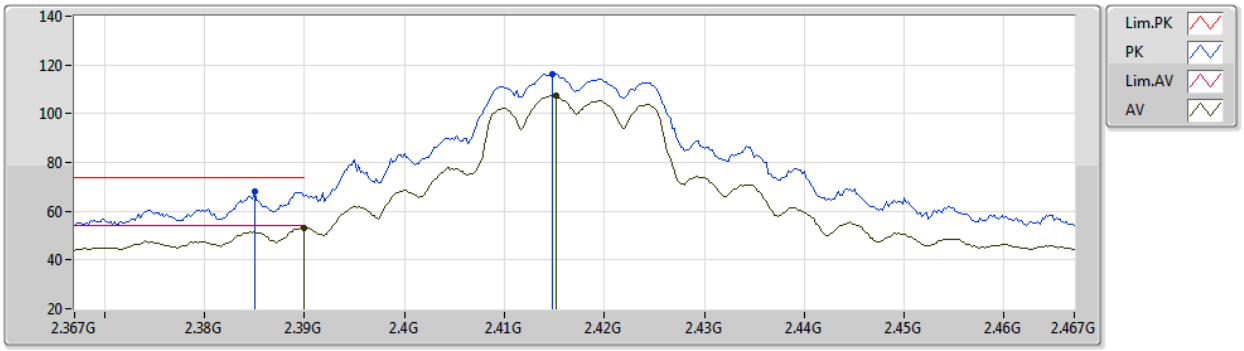
EUT Z_3TX
Setting 31
04-E-P-2

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	4.82376G	50.70	74.00	-23.30	46.05	3	Horizontal	298	1.97	-	32.60	4.93	32.88
AV	4.82408G	37.66	54.00	-16.34	33.01	3	Horizontal	298	1.97	-	32.60	4.93	32.88

802.11g_Nss1,(6Mbps)_3TX

2417MHz_TX

31/07/2020



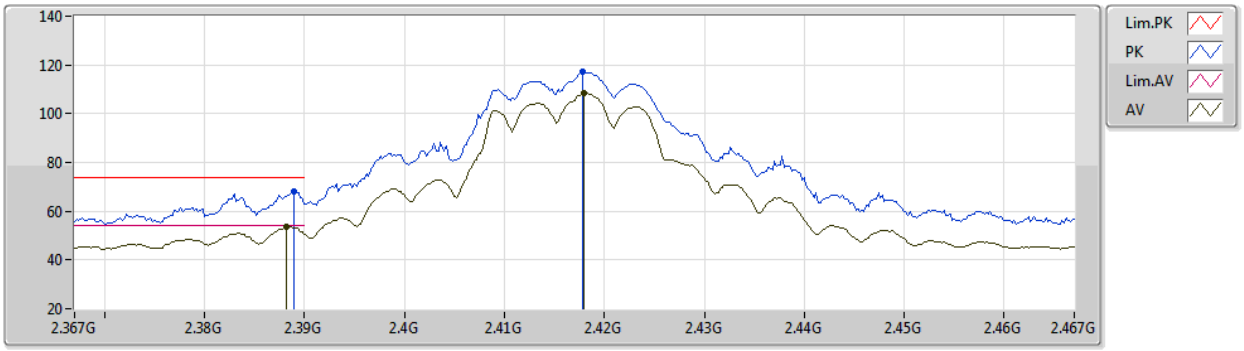
EUT Z_3TX
Setting 32
04-E-N-2

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	2.385G	68.31	74.00	-5.69	37.94	3	Vertical	349	2.89	-	27.52	2.85	-
AV	2.39G	53.12	54.00	-0.88	22.76	3	Vertical	349	2.89	-	27.51	2.85	-
PK	2.4148G	116.40	Inf	-Inf	85.97	3	Vertical	349	2.89	-	27.56	2.87	-
AV	2.4152G	107.18	Inf	-Inf	76.75	3	Vertical	349	2.89	-	27.56	2.87	-

802.11g_Nss1,(6Mbps)_3TX

2417MHz_TX

31/07/2020



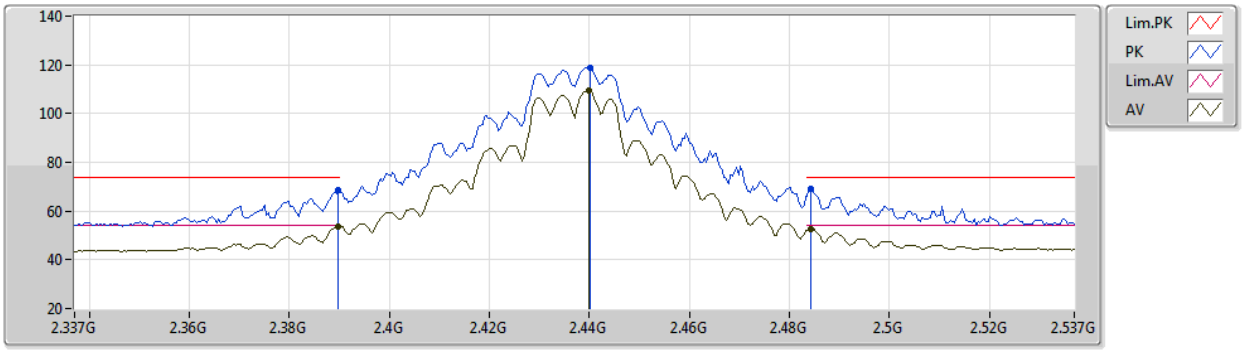
EUT Z_3TX
Setting 32
04-E-N-2

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	68.12	74.00	-5.88	37.76	3	Horizontal	32	2.55	-	27.51	2.85	-
AV	2.3882G	53.84	54.00	-0.16	23.48	3	Horizontal	32	2.55	-	27.51	2.85	-
PK	2.4178G	117.21	Inf	-Inf	86.77	3	Horizontal	32	2.55	-	27.57	2.87	-
AV	2.418G	108.31	Inf	-Inf	77.87	3	Horizontal	32	2.55	-	27.57	2.87	-

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

31/07/2020



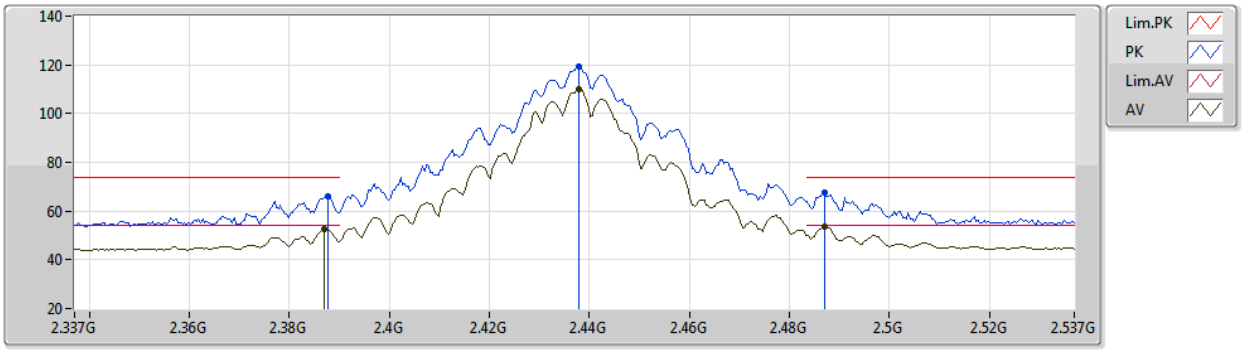
EUT Z_3TX
Setting 45
04-E-N-2

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	68.62	74.00	-5.38	38.26	3	Vertical	347	2.86	-	27.51	2.85	-
AV	2.3898G	53.76	54.00	-0.24	23.40	3	Vertical	347	2.86	-	27.51	2.85	-
PK	2.4402G	118.79	Inf	-Inf	88.25	3	Vertical	347	2.86	-	27.66	2.88	-
AV	2.4398G	109.30	Inf	-Inf	78.76	3	Vertical	347	2.86	-	27.66	2.88	-
PK	2.4842G	69.18	74.00	-4.82	38.43	3	Vertical	347	2.86	-	27.84	2.91	-
AV	2.4842G	52.60	54.00	-1.40	21.85	3	Vertical	347	2.86	-	27.84	2.91	-

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

31/07/2020



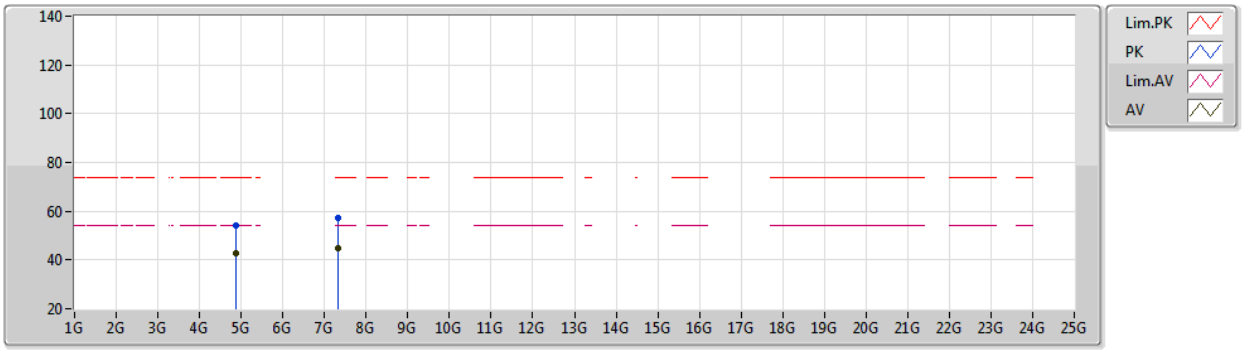
EUT Z_3TX
Setting 45
04-E-N-2

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	2.3878G	65.86	74.00	-8.14	35.50	3	Horizontal	79	1.80	-	27.51	2.85	-
AV	2.387G	52.73	54.00	-1.27	22.37	3	Horizontal	79	1.80	-	27.51	2.85	-
PK	2.4378G	119.56	Inf	-Inf	89.03	3	Horizontal	79	1.80	-	27.65	2.88	-
AV	2.4378G	109.89	Inf	-Inf	79.36	3	Horizontal	79	1.80	-	27.65	2.88	-
PK	2.487G	67.66	74.00	-6.34	36.90	3	Horizontal	79	1.80	-	27.85	2.91	-
AV	2.487G	53.54	54.00	-0.46	22.78	3	Horizontal	79	1.80	-	27.85	2.91	-

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

31/07/2020



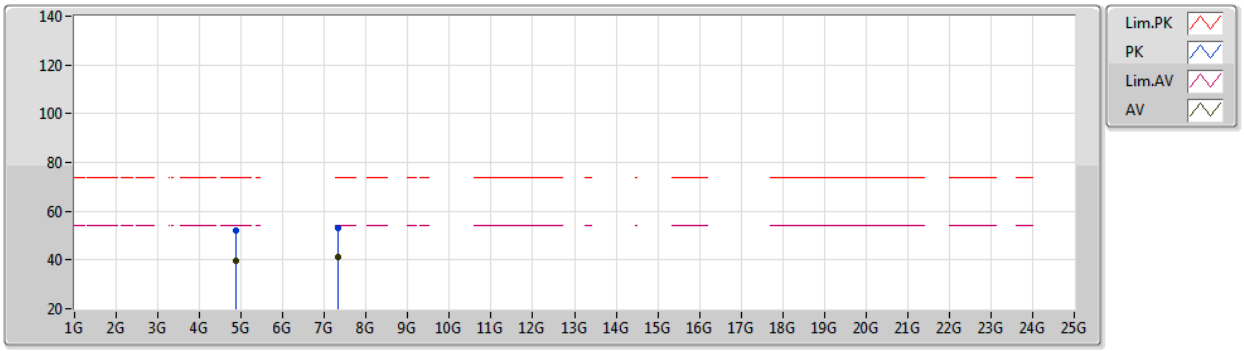
EUT Z_3TX
Setting 45
04-E-N-2

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	54.34	74.00	-19.66	49.46	3	Vertical	72	1.05	-	32.79	4.96	32.87
AV	4.87392G	42.52	54.00	-11.48	37.63	3	Vertical	72	1.05	-	32.80	4.96	32.87
PK	7.3118G	57.01	74.00	-16.99	46.63	3	Vertical	311	2.11	-	37.51	6.22	33.35
AV	7.31108G	45.02	54.00	-8.98	34.64	3	Vertical	311	2.11	-	37.51	6.22	33.35

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

31/07/2020



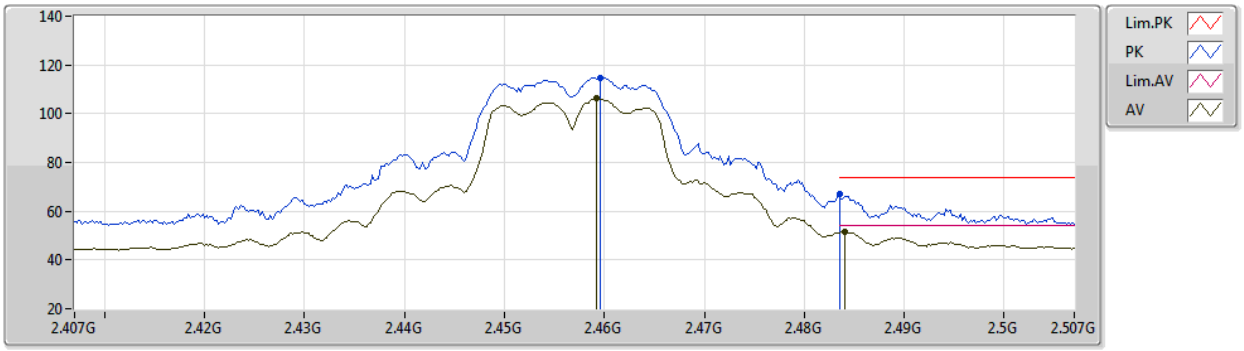
EUT Z_3TX
Setting 45
04-E-N-2

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	4.87328G	51.82	74.00	-22.18	46.94	3	Horizontal	303	2.20	-	32.79	4.96	32.87
AV	4.87408G	39.66	54.00	-14.34	34.77	3	Horizontal	303	2.20	-	32.80	4.96	32.87
PK	7.31188G	52.89	74.00	-21.11	42.51	3	Horizontal	229	1.80	-	37.51	6.22	33.35
AV	7.31236G	41.21	54.00	-12.79	30.83	3	Horizontal	229	1.80	-	37.51	6.22	33.35

802.11g_Nss1,(6Mbps)_3TX

2457MHz_TX

31/07/2020



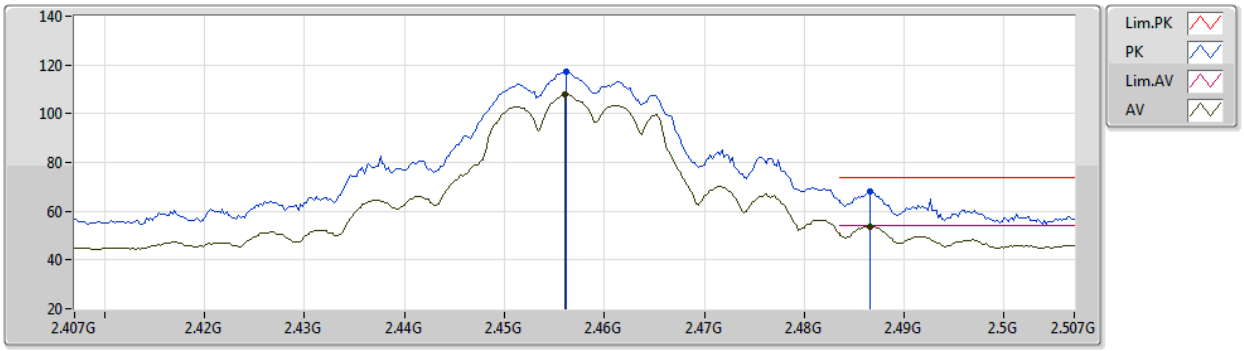
EUT Z_3TX
Setting 35
04-E-N-2

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	2.4596G	114.89	Inf	-Inf	84.25	3	Vertical	360	2.74	-	27.74	2.90	-
AV	2.4592G	106.22	Inf	-Inf	75.58	3	Vertical	360	2.74	-	27.74	2.90	-
PK	2.4835G	66.91	74.00	-7.09	36.17	3	Vertical	360	2.74	-	27.83	2.91	-
AV	2.484G	51.39	54.00	-2.61	20.64	3	Vertical	360	2.74	-	27.84	2.91	-

802.11g_Nss1,(6Mbps)_3TX

2457MHz_TX

31/07/2020



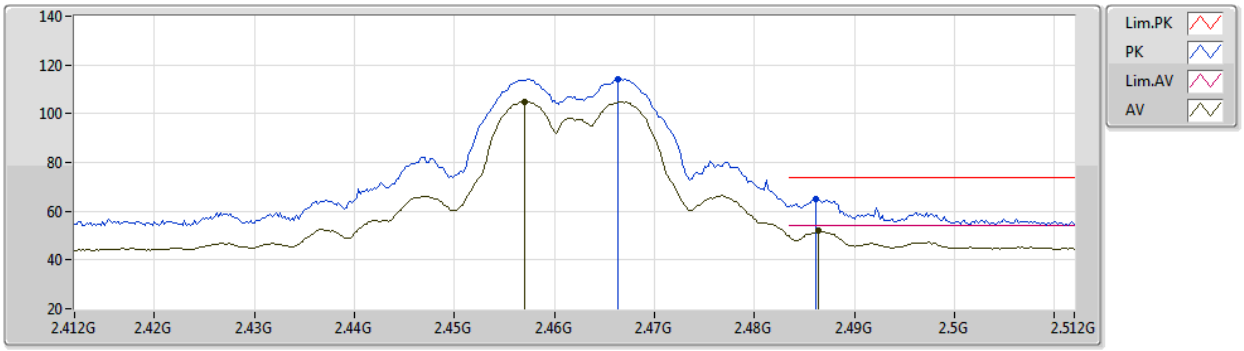
EUT Z_3TX
Setting 35
04-E-N-2

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	2.4562G	117.01	Inf	-Inf	86.40	3	Horizontal	261	2.76	-	27.72	2.89	-
AV	2.456G	108.01	Inf	-Inf	77.40	3	Horizontal	261	2.76	-	27.72	2.89	-
PK	2.4866G	68.03	74.00	-5.97	37.27	3	Horizontal	261	2.76	-	27.85	2.91	-
AV	2.4866G	53.76	54.00	-0.24	23.00	3	Horizontal	261	2.76	-	27.85	2.91	-

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

31/07/2020



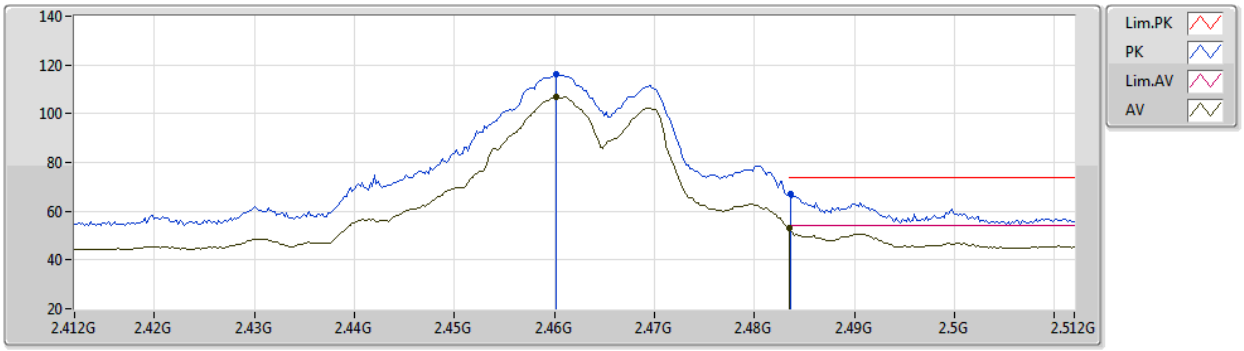
EUT Z_3TX
Setting 32
04-E-N-2

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	2.4664G	114.26	Inf	-Inf	83.59	3	Vertical	360	2.75	-	27.77	2.90	-
AV	2.457G	105.01	Inf	-Inf	74.39	3	Vertical	360	2.75	-	27.73	2.89	-
PK	2.4862G	65.24	74.00	-8.76	34.49	3	Vertical	360	2.75	-	27.84	2.91	-
AV	2.4864G	51.95	54.00	-2.05	21.19	3	Vertical	360	2.75	-	27.85	2.91	-

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

31/07/2020



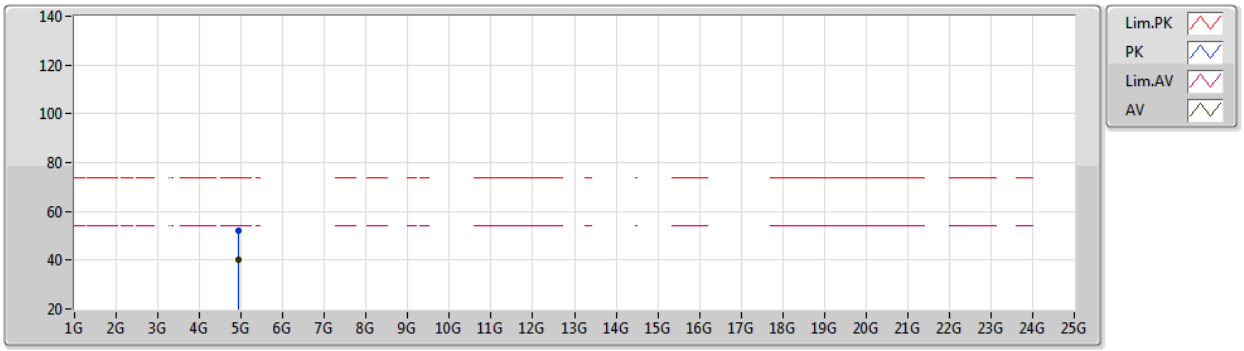
EUT Z_3TX
Setting 32
04-E-N-2

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	2.4602G	116.11	Inf	-Inf	85.47	3	Horizontal	122	2.42	-	27.74	2.90	-
AV	2.4602G	106.76	Inf	-Inf	76.12	3	Horizontal	122	2.42	-	27.74	2.90	-
PK	2.4836G	67.05	74.00	-6.95	36.31	3	Horizontal	122	2.42	-	27.83	2.91	-
AV	2.4835G	52.95	54.00	-1.05	22.21	3	Horizontal	122	2.42	-	27.83	2.91	-

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

31/07/2020



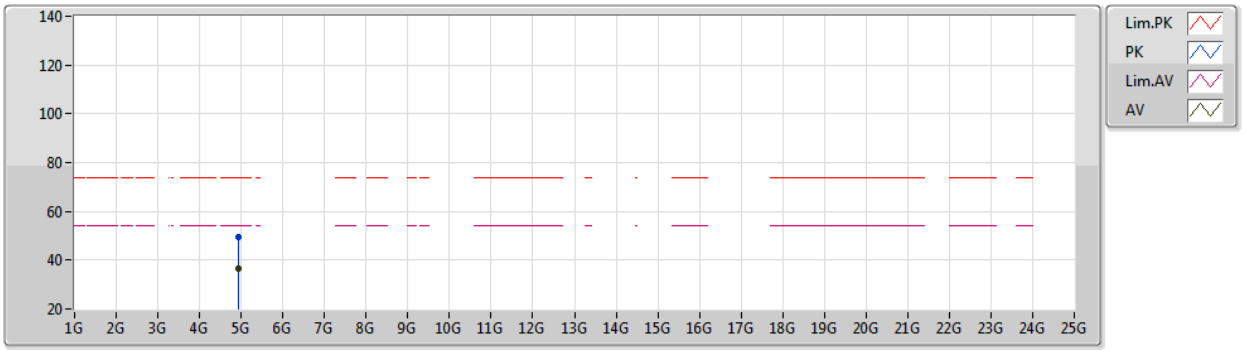
EUT Z_3TX
Setting 32
04-E-N-2

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	4.92416G	52.08	74.00	-21.92	47.02	3	Vertical	49	1.00	-	32.95	4.98	32.87
AV	4.924G	39.99	54.00	-14.01	34.93	3	Vertical	49	1.00	-	32.95	4.98	32.87

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

31/07/2020



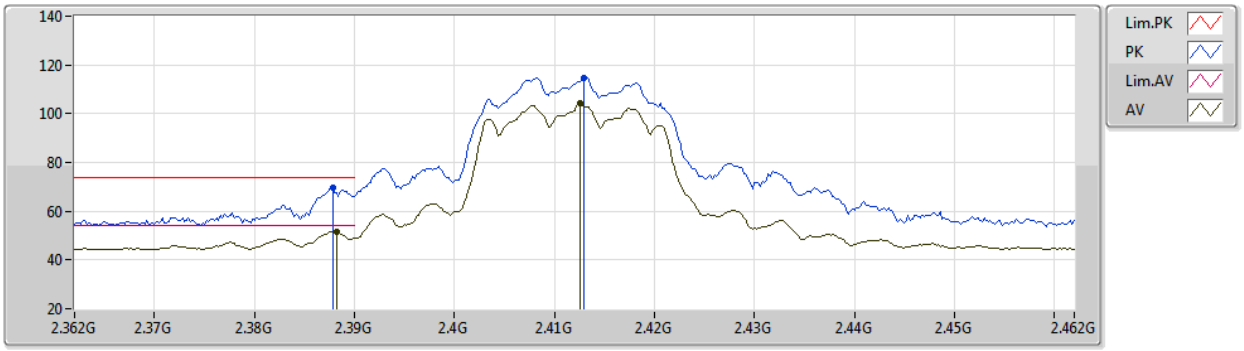
EUT Z_3TX
Setting 32
04-E-N-2

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	4.924G	49.67	74.00	-24.33	44.61	3	Horizontal	299	2.70	-	32.95	4.98	32.87
AV	4.924G	36.71	54.00	-17.29	31.65	3	Horizontal	299	2.70	-	32.95	4.98	32.87

VHT20_Nss1,(MCS0)_3TX

2412MHz_TX

31/07/2020



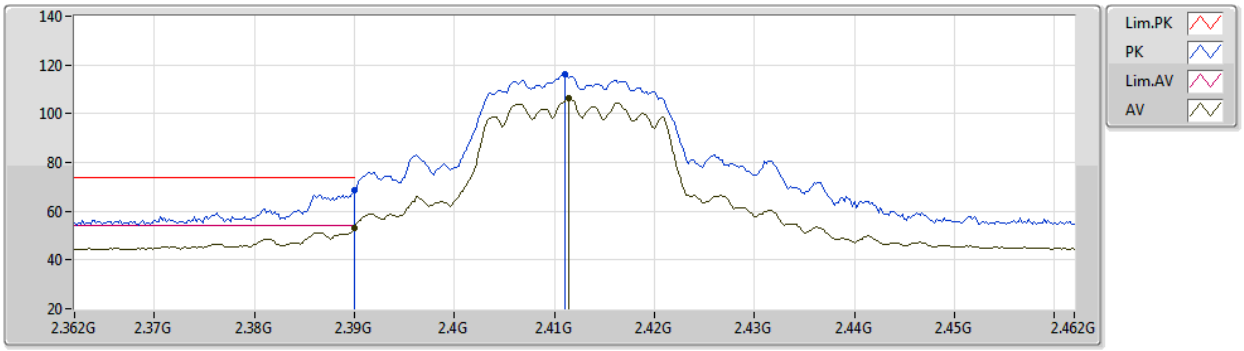
EUT Z_3TX
Setting 32
04-E-N-2

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	2.3878G	69.54	74.00	-4.46	39.18	3	Vertical	340	2.87	-	27.51	2.85	-
AV	2.3882G	51.61	54.00	-2.39	21.25	3	Vertical	340	2.87	-	27.51	2.85	-
PK	2.413G	114.67	Inf	-Inf	84.25	3	Vertical	340	2.87	-	27.55	2.87	-
AV	2.4126G	104.48	Inf	-Inf	74.06	3	Vertical	340	2.87	-	27.55	2.87	-

VHT20_Nss1,(MCS0)_3TX

2412MHz_TX

31/07/2020



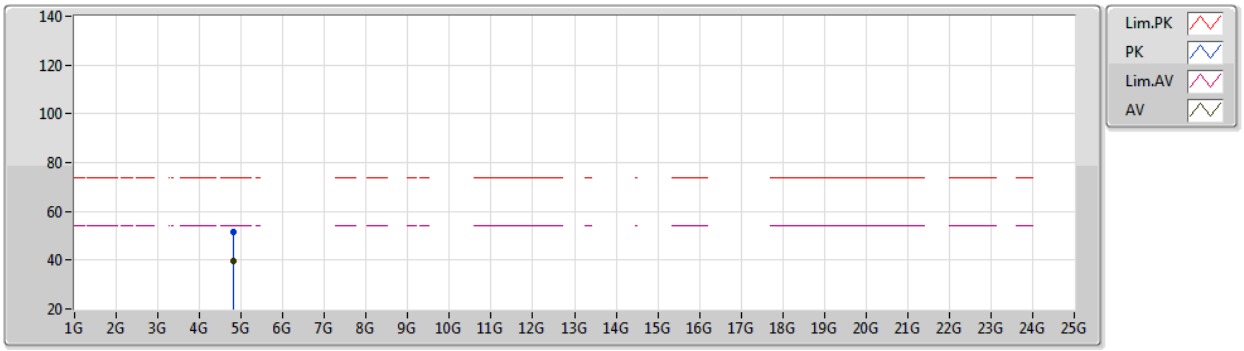
EUT Z_3TX
Setting 32
04-E-N-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	68.50	74.00	-5.50	38.14	3	Horizontal	129	2.82	-	27.51	2.85	-
AV	2.39G	53.14	54.00	-0.86	22.78	3	Horizontal	129	2.82	-	27.51	2.85	-
PK	2.411G	116.03	Inf	-Inf	85.62	3	Horizontal	129	2.82	-	27.54	2.87	-
AV	2.4114G	106.39	Inf	-Inf	75.97	3	Horizontal	129	2.82	-	27.55	2.87	-

VHT20_Nss1,(MCS0)_3TX

2412MHz_TX

31/07/2020



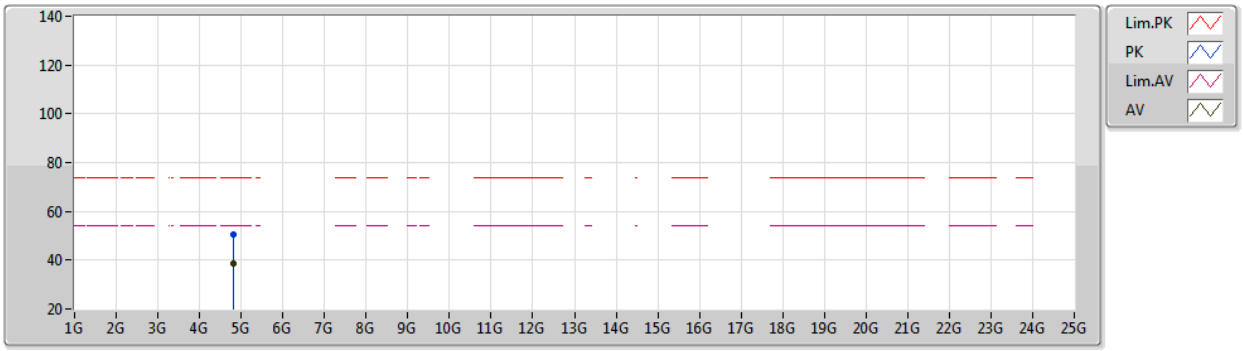
EUT Z_3TX
Setting 32
04-E-N-2

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	4.82376G	51.58	74.00	-22.42	46.93	3	Vertical	60	1.00	-	32.60	4.93	32.88
AV	4.82392G	39.40	54.00	-14.60	34.75	3	Vertical	60	1.00	-	32.60	4.93	32.88

VHT20_Nss1,(MCS0)_3TX

2412MHz_TX

31/07/2020



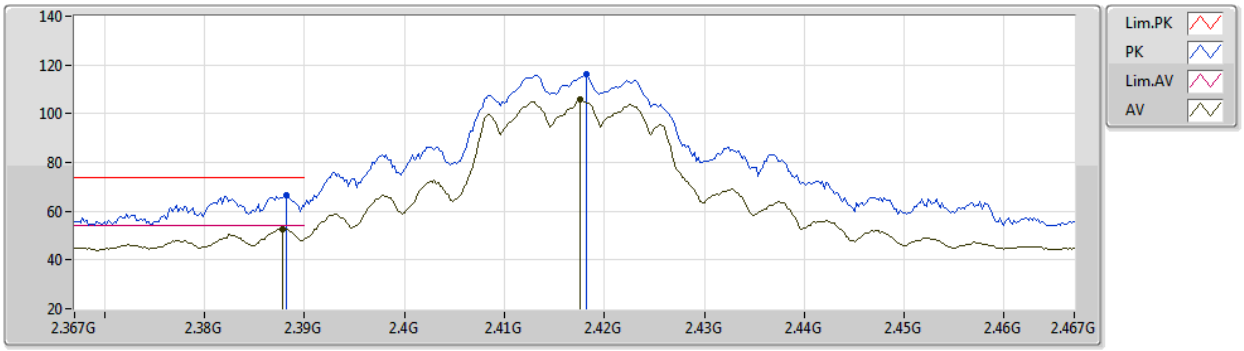
EUT Z_3TX
Setting 32
04-E-N-2

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	4.8236G	50.59	74.00	-23.41	45.95	3	Horizontal	264	2.32	-	32.59	4.93	32.88
AV	4.824G	38.75	54.00	-15.25	34.10	3	Horizontal	264	2.32	-	32.60	4.93	32.88

VHT20_Nss1,(MCS0)_3TX

2417MHz_TX

31/07/2020



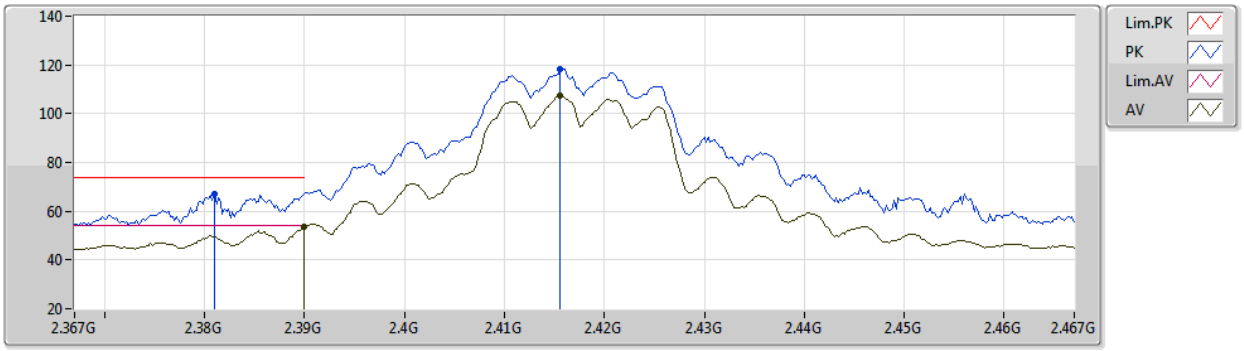
EUT Z_3TX
Setting 36
04-E-N-2

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	66.69	74.00	-7.31	36.33	3	Vertical	336	2.90	-	27.51	2.85	-
AV	2.3878G	52.79	54.00	-1.21	22.43	3	Vertical	336	2.90	-	27.51	2.85	-
PK	2.4182G	116.20	Inf	-Inf	85.76	3	Vertical	336	2.90	-	27.57	2.87	-
AV	2.4176G	105.94	Inf	-Inf	75.50	3	Vertical	336	2.90	-	27.57	2.87	-

VHT20_Nss1,(MCS0)_3TX

2417MHz_TX

31/07/2020



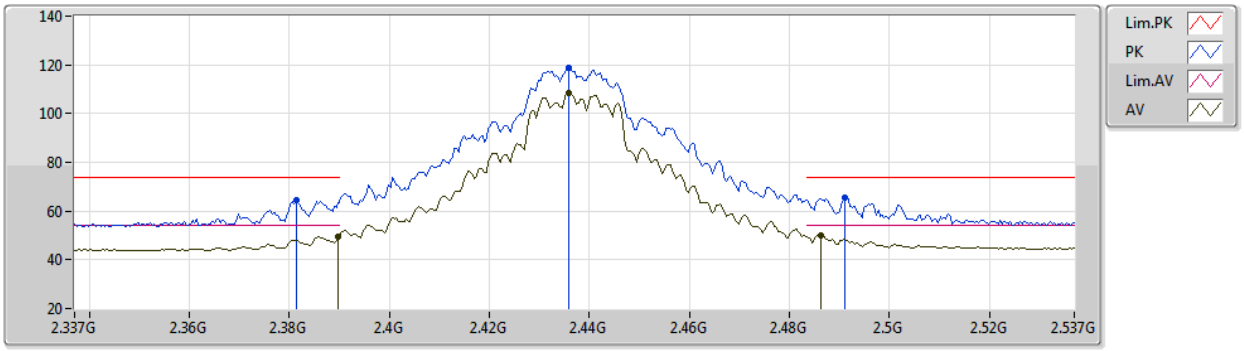
EUT Z_3TX
Setting 36
04-E-N-2

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	2.381G	67.23	74.00	-6.77	36.86	3	Horizontal	35	2.53	-	27.52	2.85	-
AV	2.39G	53.80	54.00	-0.20	23.44	3	Horizontal	35	2.53	-	27.51	2.85	-
PK	2.4156G	118.50	Inf	-Inf	88.07	3	Horizontal	35	2.53	-	27.56	2.87	-
AV	2.4156G	107.32	Inf	-Inf	76.89	3	Horizontal	35	2.53	-	27.56	2.87	-

VHT20_Nss1,(MCS0)_3TX

2437MHz_TX

31/07/2020



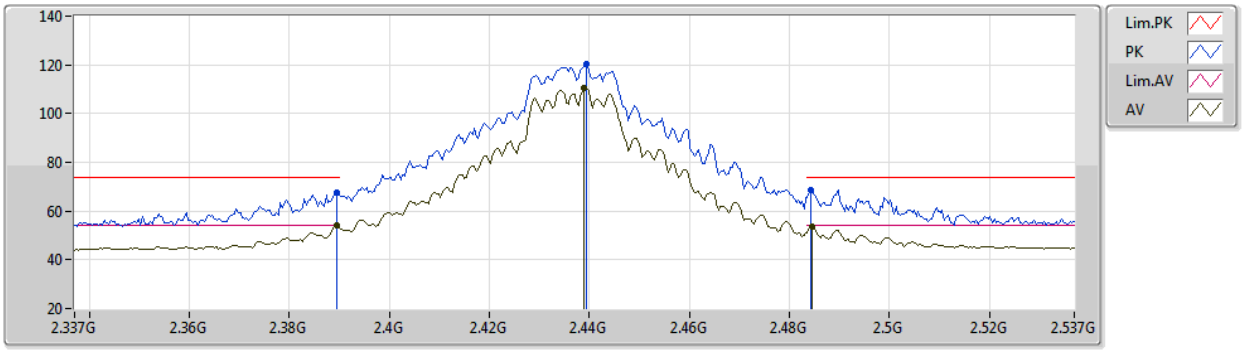
EUT Z_3TX
Setting 43
04-E-N-2

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	2.3814G	64.41	74.00	-9.59	34.04	3	Vertical	7	2.83	-	27.52	2.85	-
AV	2.3898G	49.46	54.00	-4.54	19.10	3	Vertical	7	2.83	-	27.51	2.85	-
PK	2.4358G	118.70	Inf	-Inf	88.18	3	Vertical	7	2.83	-	27.64	2.88	-
AV	2.4358G	108.62	Inf	-Inf	78.10	3	Vertical	7	2.83	-	27.64	2.88	-
PK	2.491G	65.74	74.00	-8.26	34.97	3	Vertical	7	2.83	-	27.86	2.91	-
AV	2.4862G	49.93	54.00	-4.07	19.18	3	Vertical	7	2.83	-	27.84	2.91	-

VHT20_Nss1,(MCS0)_3TX

2437MHz_TX

31/07/2020



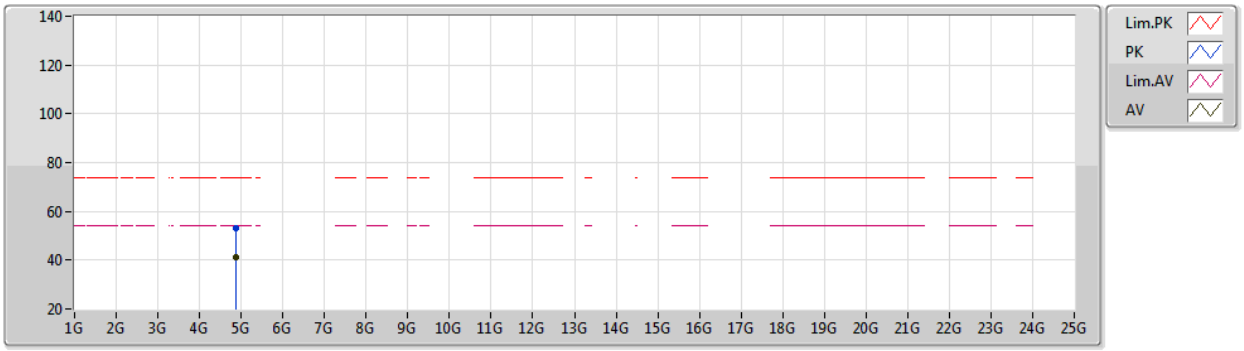
EUT Z_3TX
Setting 43
04-E-N-2

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	67.49	74.00	-6.51	37.13	3	Horizontal	100	2.27	-	27.51	2.85	-
AV	2.3894G	53.89	54.00	-0.11	23.53	3	Horizontal	100	2.27	-	27.51	2.85	-
PK	2.4394G	120.20	Inf	-Inf	89.66	3	Horizontal	100	2.27	-	27.66	2.88	-
AV	2.439G	110.44	Inf	-Inf	79.90	3	Horizontal	100	2.27	-	27.66	2.88	-
PK	2.4842G	68.58	74.00	-5.42	37.83	3	Horizontal	100	2.27	-	27.84	2.91	-
AV	2.4846G	53.81	54.00	-0.19	23.06	3	Horizontal	100	2.27	-	27.84	2.91	-

VHT20_Nss1,(MCS0)_3TX

2437MHz_TX

31/07/2020



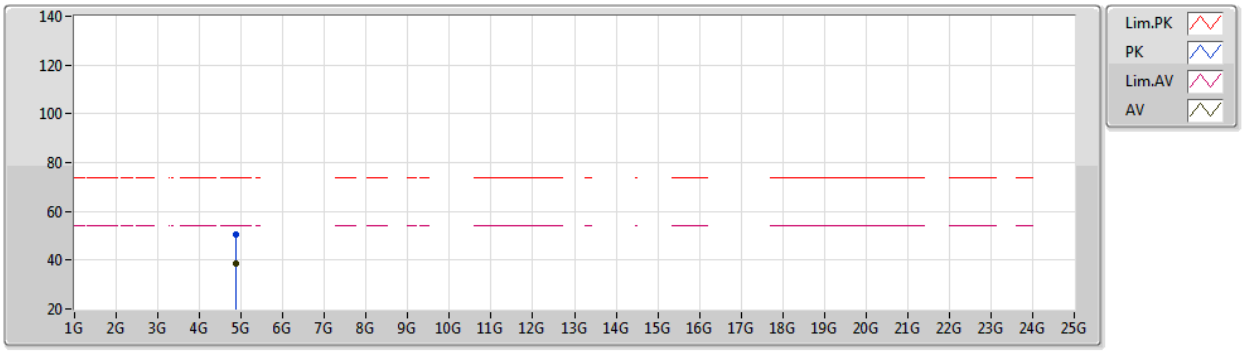
EUT Z_3TX
Setting 43
04-E-N-2

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	4.87376G	53.07	74.00	-20.93	48.18	3	Vertical	58	1.04	-	32.80	4.96	32.87
AV	4.87392G	41.42	54.00	-12.58	36.53	3	Vertical	58	1.04	-	32.80	4.96	32.87

VHT20_Nss1,(MCS0)_3TX

2437MHz_TX

31/07/2020



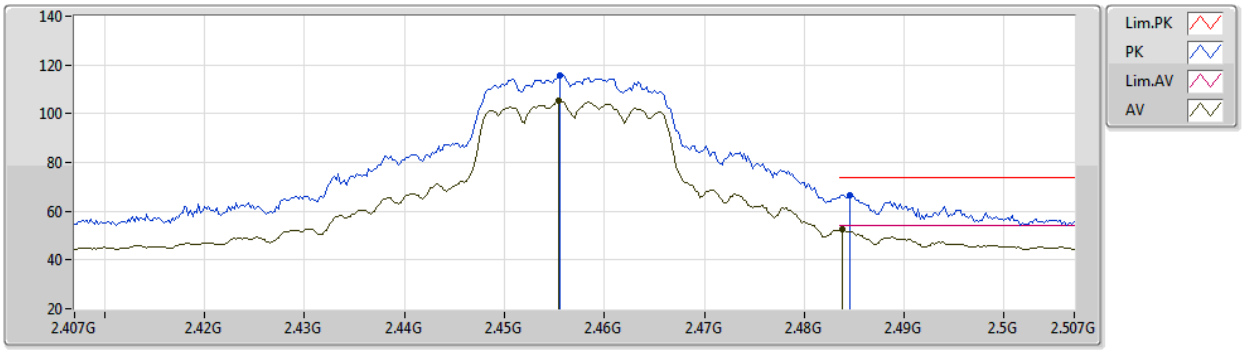
EUT Z_3TX
Setting 43
04-E-N-2

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	4.8744G	50.26	74.00	-23.74	45.37	3	Horizontal	304	1.95	-	32.80	4.96	32.87
AV	4.87872G	38.40	54.00	-15.60	33.50	3	Horizontal	304	1.95	-	32.81	4.96	32.87

VHT20_Nss1,(MCS0)_3TX

2457MHz_TX

31/07/2020



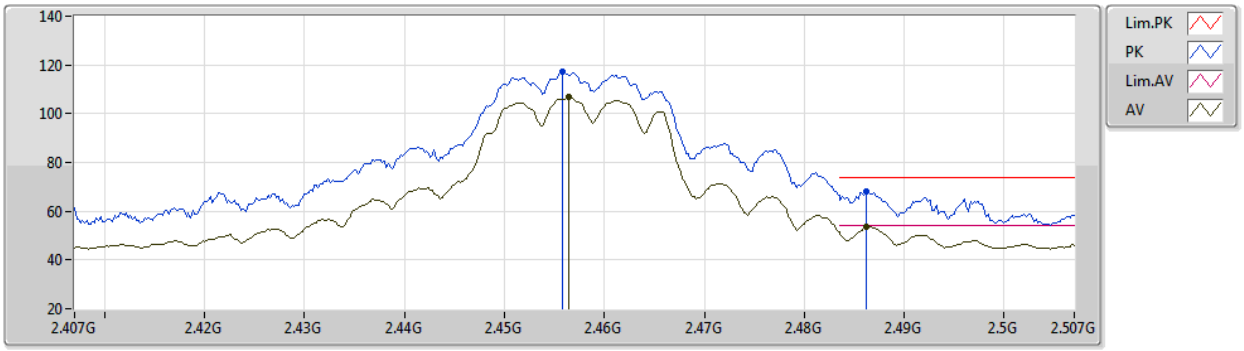
EUT Z_3TX
Setting 35
04-E-N-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4556G	115.90	Inf	-Inf	85.29	3	Vertical	360	2.79	-	27.72	2.89	-
AV	2.4554G	105.25	Inf	-Inf	74.64	3	Vertical	360	2.79	-	27.72	2.89	-
PK	2.4846G	66.53	74.00	-7.47	35.78	3	Vertical	360	2.79	-	27.84	2.91	-
AV	2.4838G	52.49	54.00	-1.51	21.74	3	Vertical	360	2.79	-	27.84	2.91	-

VHT20_Nss1,(MCS0)_3TX

2457MHz_TX

31/07/2020



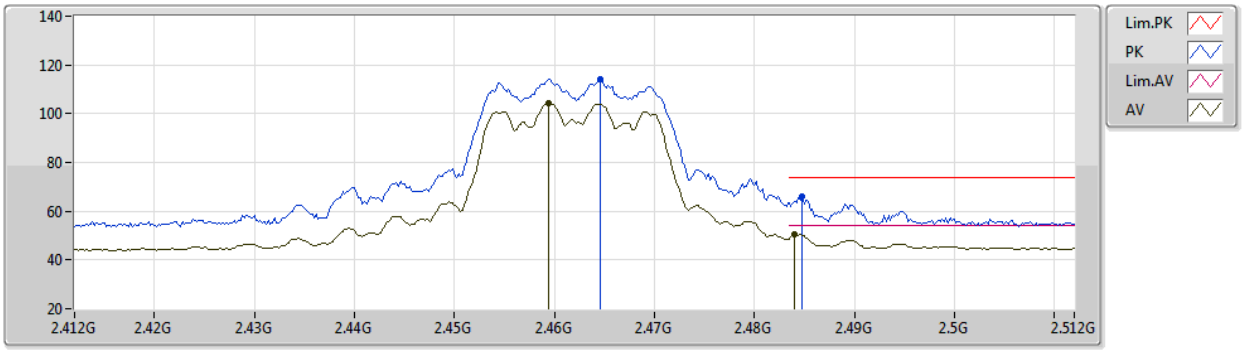
EUT Z_3TX
Setting 35
04-E-N-2

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	2.4558G	117.21	Inf	-Inf	86.60	3	Horizontal	244	2.80	-	27.72	2.89	-
AV	2.4564G	106.95	Inf	-Inf	76.33	3	Horizontal	244	2.80	-	27.73	2.89	-
PK	2.4862G	67.96	74.00	-6.04	37.21	3	Horizontal	244	2.80	-	27.84	2.91	-
AV	2.4862G	53.78	54.00	-0.22	23.03	3	Horizontal	244	2.80	-	27.84	2.91	-

VHT20_Nss1,(MCS0)_3TX

2462MHz_TX

31/07/2020



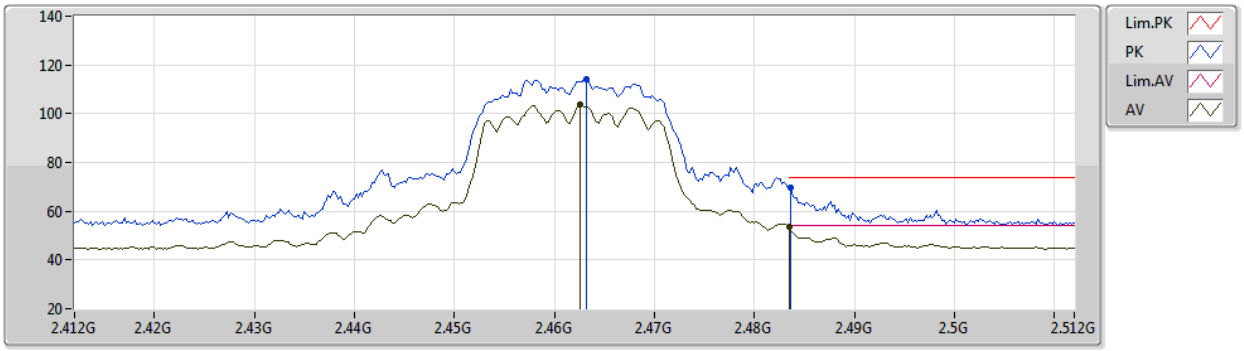
EUT Z_3TX
Setting 29
04-E-N-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4646G	114.36	Inf	-Inf	83.70	3	Vertical	0	2.75	-	27.76	2.90	-
AV	2.4594G	104.32	Inf	-Inf	73.68	3	Vertical	0	2.75	-	27.74	2.90	-
PK	2.4848G	65.98	74.00	-8.02	35.23	3	Vertical	0	2.75	-	27.84	2.91	-
AV	2.484G	50.32	54.00	-3.68	19.57	3	Vertical	0	2.75	-	27.84	2.91	-

VHT20_Nss1,(MCS0)_3TX

2462MHz_TX

31/07/2020



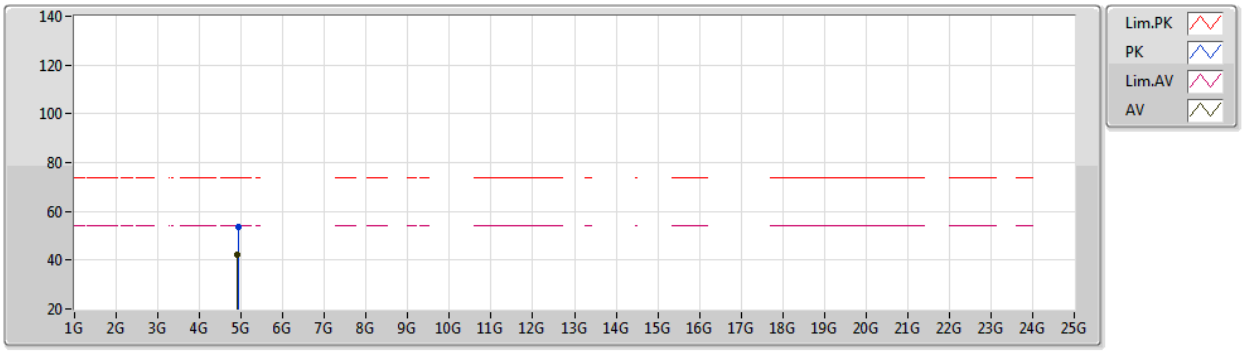
EUT Z_3TX
Setting 29
04-E-N-2

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	2.4632G	114.32	Inf	-Inf	83.67	3	Horizontal	120	2.49	-	27.75	2.90	-
AV	2.4626G	103.80	Inf	-Inf	73.15	3	Horizontal	120	2.49	-	27.75	2.90	-
PK	2.4836G	69.44	74.00	-4.56	38.70	3	Horizontal	120	2.49	-	27.83	2.91	-
AV	2.4835G	53.76	54.00	-0.24	23.02	3	Horizontal	120	2.49	-	27.83	2.91	-

VHT20_Nss1,(MCS0)_3TX

2462MHz_TX

31/07/2020



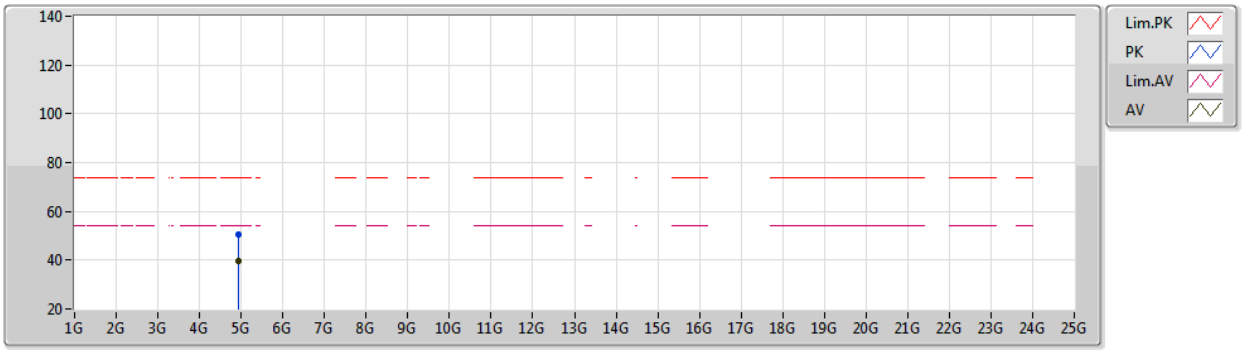
EUT Z_3TX
Setting 29
04-E-N-2

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	4.92392G	53.70	74.00	-20.30	48.64	3	Vertical	55	1.07	-	32.95	4.98	32.87
AV	4.91864G	42.13	54.00	-11.87	37.08	3	Vertical	55	1.07	-	32.94	4.98	32.87

VHT20_Nss1,(MCS0)_3TX

2462MHz_TX

31/07/2020



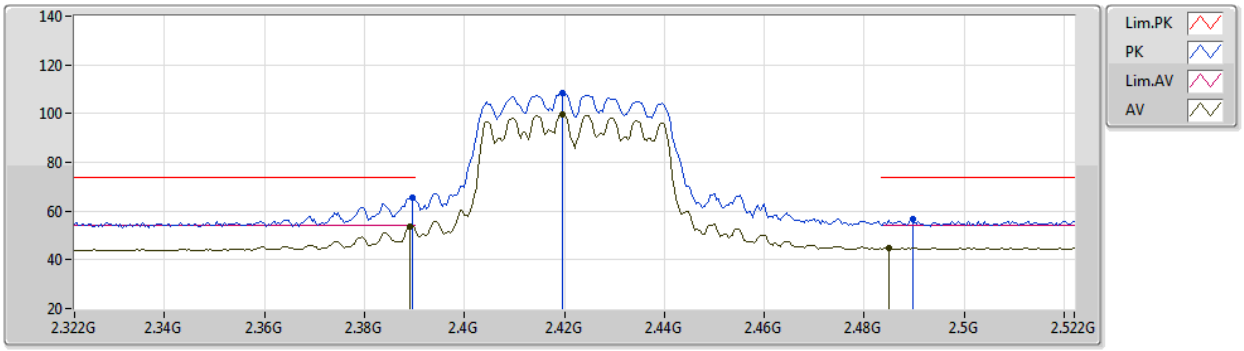
EUT Z_3TX
Setting 29
04-E-N-2

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	4.92384G	50.64	74.00	-23.36	45.58	3	Horizontal	304	2.16	-	32.95	4.98	32.87
AV	4.92416G	39.50	54.00	-14.50	34.44	3	Horizontal	304	2.16	-	32.95	4.98	32.87

VHT40_Nss1,(MCS0)_3TX

2422MHz_TX

31/07/2020



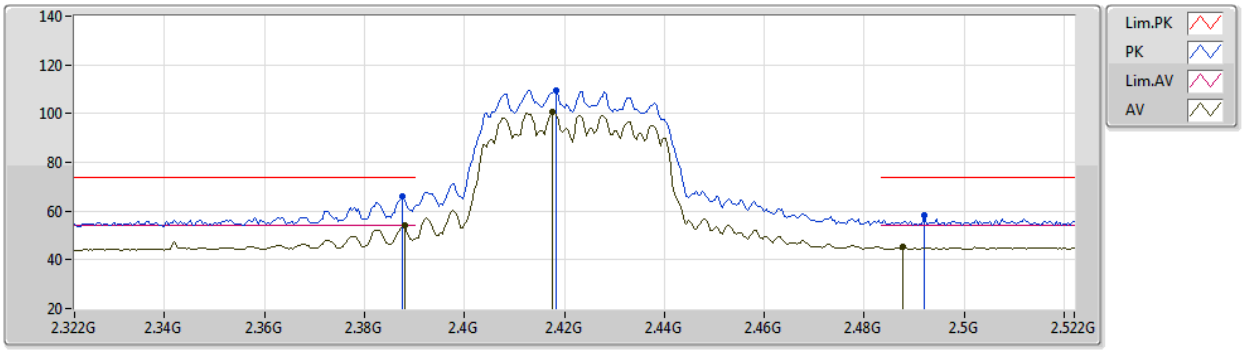
EUT Z_3TX
Setting 26
04-E-N-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3896G	65.73	74.00	-8.27	35.37	3	Vertical	0	2.89	-	27.51	2.85	-
AV	2.3892G	53.83	54.00	-0.17	23.47	3	Vertical	0	2.89	-	27.51	2.85	-
PK	2.4196G	108.54	Inf	-Inf	78.09	3	Vertical	0	2.89	-	27.58	2.87	-
AV	2.4196G	99.90	Inf	-Inf	69.45	3	Vertical	0	2.89	-	27.58	2.87	-
PK	2.4896G	56.48	74.00	-17.52	25.71	3	Vertical	0	2.89	-	27.86	2.91	-
AV	2.4848G	44.92	54.00	-9.08	14.17	3	Vertical	0	2.89	-	27.84	2.91	-

VHT40_Nss1,(MCS0)_3TX

2422MHz_TX

31/07/2020



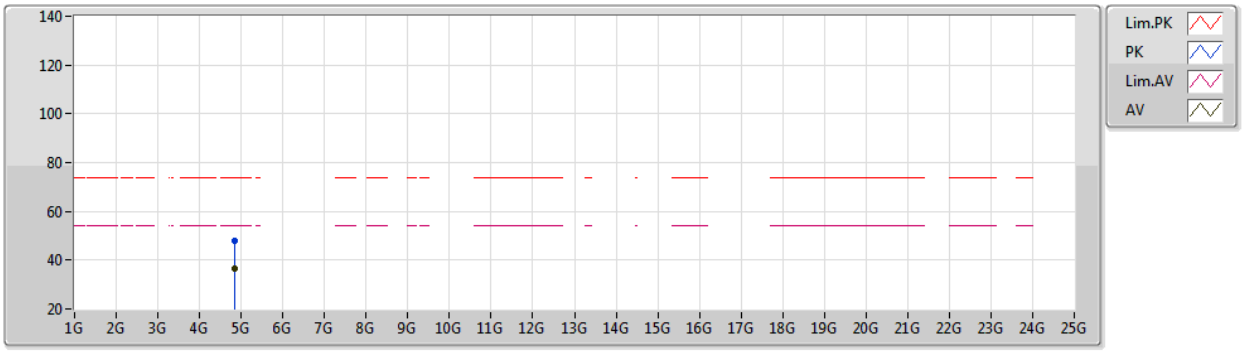
EUT Z_3TX
Setting 26
04-E-N-2

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	65.82	74.00	-8.18	35.46	3	Horizontal	92	2.86	-	27.51	2.85	-
AV	2.388G	53.95	54.00	-0.05	23.59	3	Horizontal	92	2.86	-	27.51	2.85	-
PK	2.4184G	109.65	Inf	-Inf	79.21	3	Horizontal	92	2.86	-	27.57	2.87	-
AV	2.4176G	100.53	Inf	-Inf	70.09	3	Horizontal	92	2.86	-	27.57	2.87	-
PK	2.492G	58.32	74.00	-15.68	27.53	3	Horizontal	92	2.86	-	27.87	2.92	-
AV	2.4876G	45.23	54.00	-8.77	14.47	3	Horizontal	92	2.86	-	27.85	2.91	-

VHT40_Nss1,(MCS0)_3TX

2422MHz_TX

31/07/2020



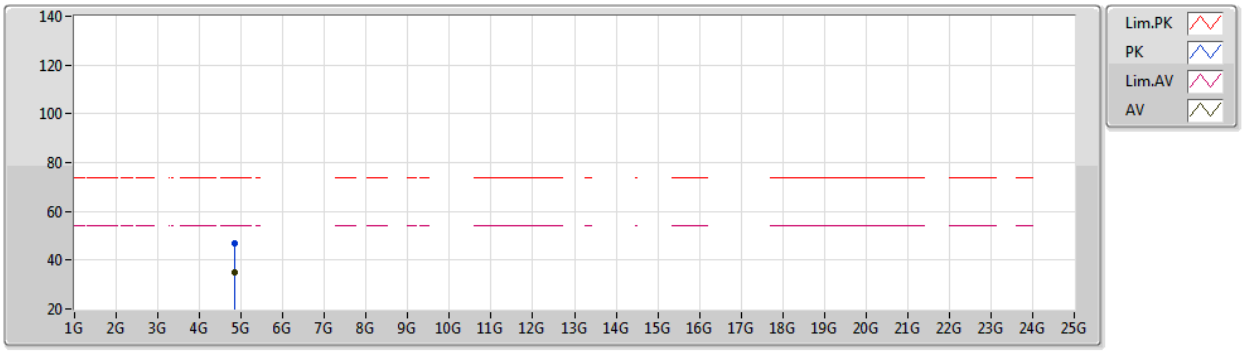
EUT Z_3TX
Setting 26
04-E-N-2

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	4.84376G	47.95	74.00	-26.05	43.21	3	Vertical	49	1.00	-	32.68	4.94	32.88
AV	4.84392G	36.46	54.00	-17.54	31.72	3	Vertical	49	1.00	-	32.68	4.94	32.88

VHT40_Nss1,(MCS0)_3TX

2422MHz_TX

31/07/2020



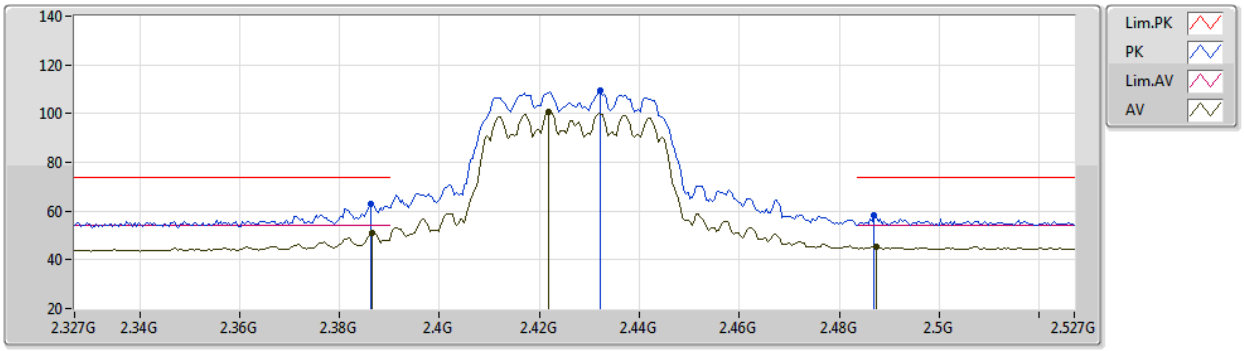
EUT Z_3TX
Setting 26
04-E-N-2

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	4.84368G	47.10	74.00	-26.90	42.37	3	Horizontal	266	2.56	-	32.67	4.94	32.88
AV	4.8436G	34.88	54.00	-19.12	30.15	3	Horizontal	266	2.56	-	32.67	4.94	32.88

VHT40_Nss1,(MCS0)_3TX

2427MHz_TX

31/07/2020



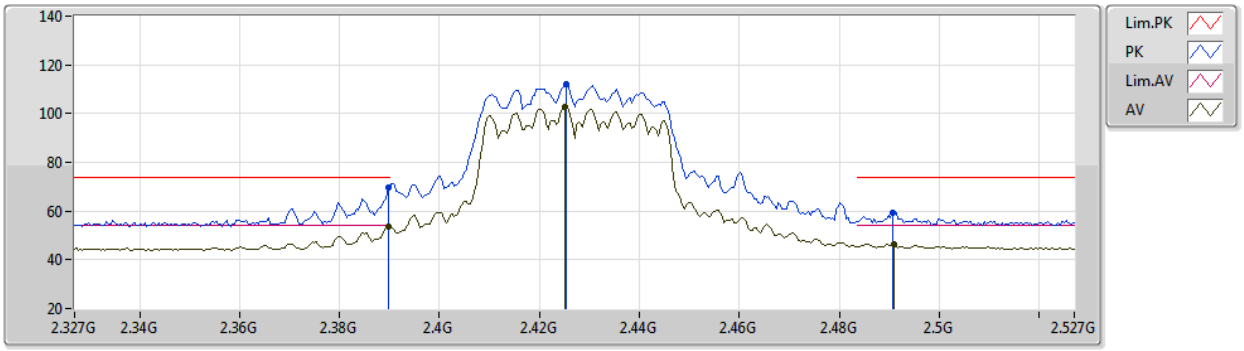
EUT Z_3TX
Setting 28
04-E-N-2

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	2.3862G	63.17	74.00	-10.83	32.81	3	Vertical	360	2.87	-	27.51	2.85	-
AV	2.3866G	51.19	54.00	-2.81	20.83	3	Vertical	360	2.87	-	27.51	2.85	-
PK	2.4322G	109.49	Inf	-Inf	78.98	3	Vertical	360	2.87	-	27.63	2.88	-
AV	2.4218G	100.83	Inf	-Inf	70.37	3	Vertical	360	2.87	-	27.59	2.87	-
PK	2.487G	58.32	74.00	-15.68	27.56	3	Vertical	360	2.87	-	27.85	2.91	-
AV	2.4874G	45.58	54.00	-8.42	14.82	3	Vertical	360	2.87	-	27.85	2.91	-

VHT40_Nss1,(MCS0)_3TX

2427MHz_TX

31/07/2020



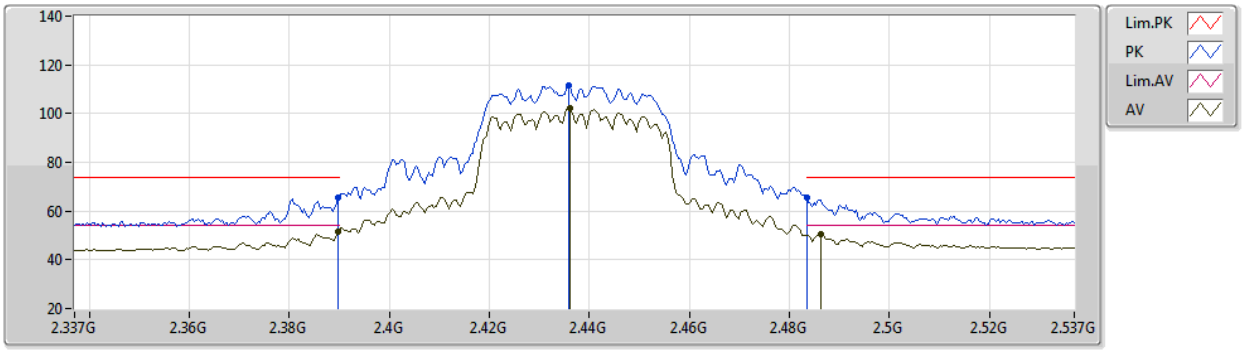
EUT Z_3TX
Setting 28
04-E-N-2

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	69.48	74.00	-4.52	39.12	3	Horizontal	121	2.78	-	27.51	2.85	-
AV	2.3898G	53.80	54.00	-0.20	23.44	3	Horizontal	121	2.78	-	27.51	2.85	-
PK	2.4254G	112.11	Inf	-Inf	81.63	3	Horizontal	121	2.78	-	27.60	2.88	-
AV	2.425G	102.67	Inf	-Inf	72.20	3	Horizontal	121	2.78	-	27.60	2.87	-
PK	2.4906G	59.36	74.00	-14.64	28.59	3	Horizontal	121	2.78	-	27.86	2.91	-
AV	2.491G	46.58	54.00	-7.42	15.81	3	Horizontal	121	2.78	-	27.86	2.91	-

VHT40_Nss1,(MCS0)_3TX

2437MHz_TX

31/07/2020



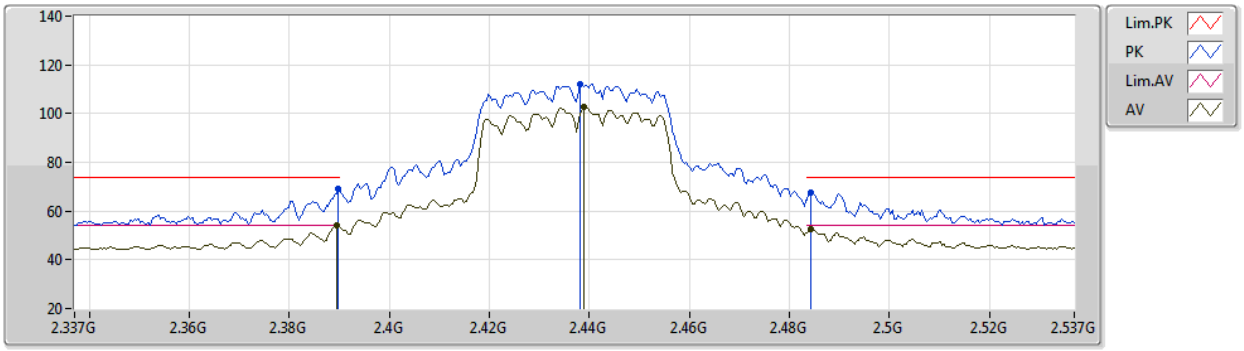
EUT Z_3TX
Setting 33
04-E-N-2

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	65.58	74.00	-8.42	35.22	3	Vertical	6	2.84	-	27.51	2.85	-
AV	2.3898G	51.49	54.00	-2.51	21.13	3	Vertical	6	2.84	-	27.51	2.85	-
PK	2.4358G	111.63	Inf	-Inf	81.11	3	Vertical	6	2.84	-	27.64	2.88	-
AV	2.4362G	102.01	Inf	-Inf	71.49	3	Vertical	6	2.84	-	27.64	2.88	-
PK	2.4835G	65.66	74.00	-8.34	34.92	3	Vertical	6	2.84	-	27.83	2.91	-
AV	2.4862G	50.51	54.00	-3.49	19.76	3	Vertical	6	2.84	-	27.84	2.91	-

VHT40_Nss1,(MCS0)_3TX

2437MHz_TX

31/07/2020



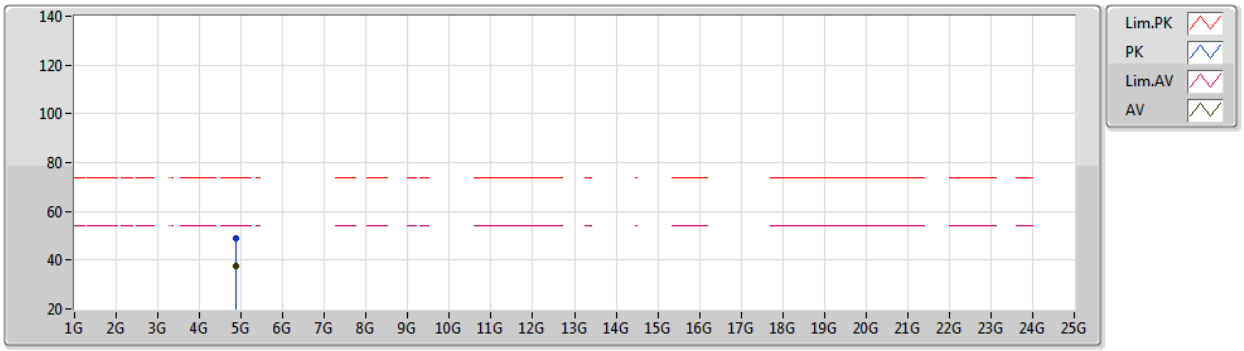
EUT Z_3TX
Setting 33
04-E-N-2

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	69.11	74.00	-4.89	38.75	3	Horizontal	83	2.74	-	27.51	2.85	-
AV	2.3894G	53.98	54.00	-0.02	23.62	3	Horizontal	83	2.74	-	27.51	2.85	-
PK	2.4382G	112.27	Inf	-Inf	81.74	3	Horizontal	83	2.74	-	27.65	2.88	-
AV	2.439G	102.55	Inf	-Inf	72.01	3	Horizontal	83	2.74	-	27.66	2.88	-
PK	2.4842G	67.74	74.00	-6.26	36.99	3	Horizontal	83	2.74	-	27.84	2.91	-
AV	2.4842G	52.70	54.00	-1.30	21.95	3	Horizontal	83	2.74	-	27.84	2.91	-

VHT40_Nss1,(MCS0)_3TX

2437MHz_TX

31/07/2020



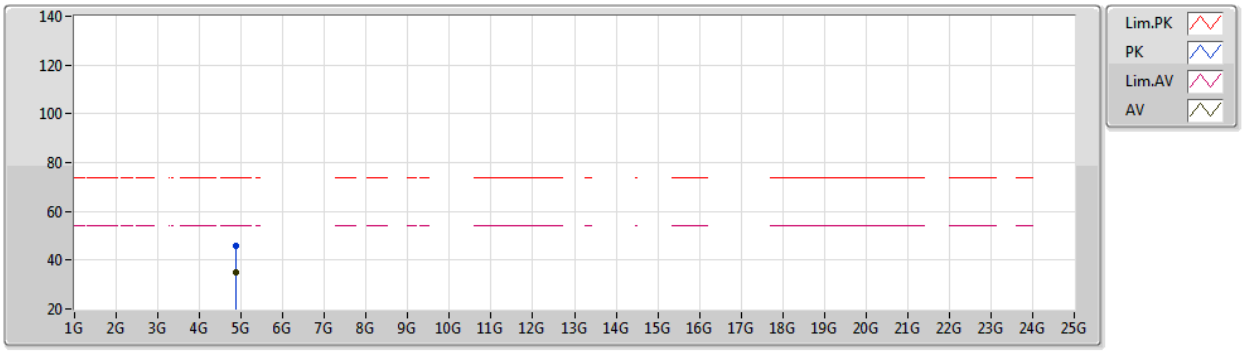
EUT Z_3TX
Setting 33
04-E-N-2

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	4.87376G	48.99	74.00	-25.01	44.10	3	Vertical	58	1.03	-	32.80	4.96	32.87
AV	4.874G	37.39	54.00	-16.61	32.50	3	Vertical	58	1.03	-	32.80	4.96	32.87

VHT40_Nss1,(MCS0)_3TX

2437MHz_TX

31/07/2020



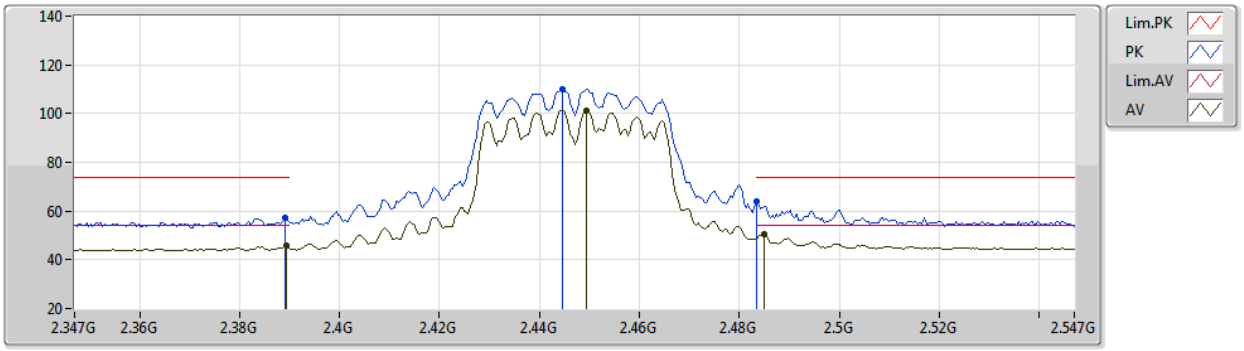
EUT Z_3TX
Setting 33
04-E-N-2

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	4.8844G	45.96	74.00	-28.04	41.03	3	Horizontal	298	2.96	-	32.84	4.96	32.87
AV	4.874G	34.82	54.00	-19.18	29.93	3	Horizontal	298	2.96	-	32.80	4.96	32.87

VHT40_Nss1,(MCS0)_3TX

2447MHz_TX

31/07/2020



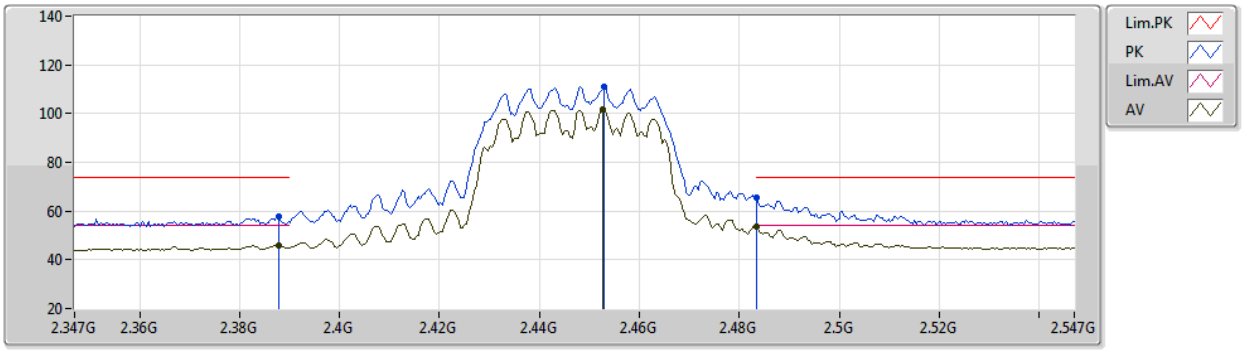
EUT Z_3TX
Setting 28
04-E-N-2

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	57.14	74.00	-16.86	26.78	3	Vertical	0	2.78	-	27.51	2.85	-
AV	2.3894G	45.74	54.00	-8.26	15.38	3	Vertical	0	2.78	-	27.51	2.85	-
PK	2.4446G	109.83	Inf	-Inf	79.26	3	Vertical	0	2.78	-	27.68	2.89	-
AV	2.4494G	101.44	Inf	-Inf	70.85	3	Vertical	0	2.78	-	27.70	2.89	-
PK	2.4835G	63.82	74.00	-10.18	33.08	3	Vertical	0	2.78	-	27.83	2.91	-
AV	2.485G	50.75	54.00	-3.25	20.00	3	Vertical	0	2.78	-	27.84	2.91	-

VHT40_Nss1,(MCS0)_3TX

2447MHz_TX

31/07/2020



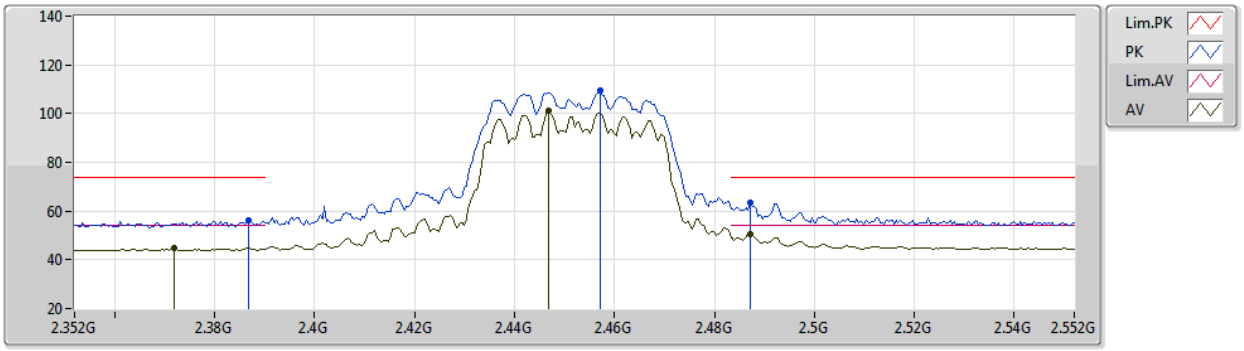
EUT Z_3TX
Setting 28
04-E-N-2

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	2.3878G	57.73	74.00	-16.27	27.37	3	Horizontal	89	2.74	-	27.51	2.85	-
AV	2.3878G	45.89	54.00	-8.11	15.53	3	Horizontal	89	2.74	-	27.51	2.85	-
PK	2.453G	111.24	Inf	-Inf	80.64	3	Horizontal	89	2.74	-	27.71	2.89	-
AV	2.4526G	101.52	Inf	-Inf	70.92	3	Horizontal	89	2.74	-	27.71	2.89	-
PK	2.4835G	65.61	74.00	-8.39	34.87	3	Horizontal	89	2.74	-	27.83	2.91	-
AV	2.4835G	53.87	54.00	-0.13	23.13	3	Horizontal	89	2.74	-	27.83	2.91	-

VHT40_Nss1,(MCS0)_3TX

2452MHz_TX

31/07/2020



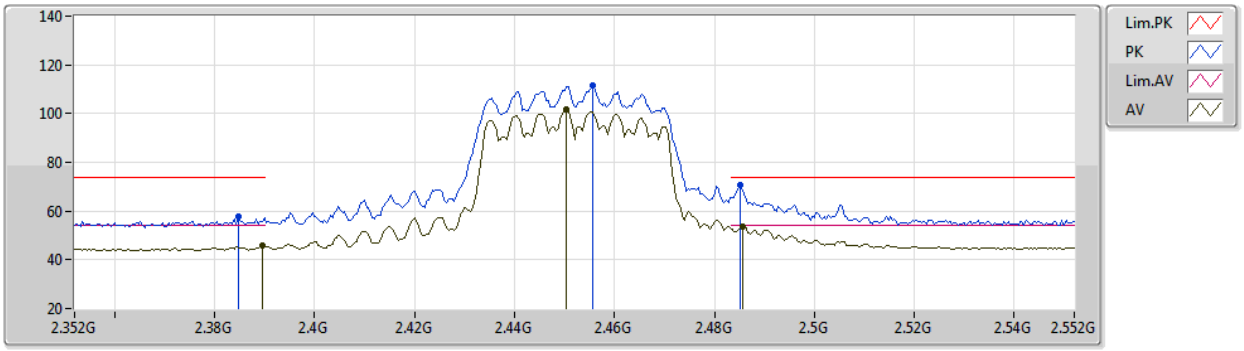
EUT Z_3TX
Setting 27
04-E-N-2

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	2.3868G	56.36	74.00	-17.64	26.00	3	Vertical	360	2.80	-	27.51	2.85	-
AV	2.372G	44.89	54.00	-9.11	14.52	3	Vertical	360	2.80	-	27.53	2.84	-
PK	2.4572G	109.60	Inf	-Inf	78.98	3	Vertical	360	2.80	-	27.73	2.89	-
AV	2.4468G	101.01	Inf	-Inf	70.43	3	Vertical	360	2.80	-	27.69	2.89	-
PK	2.4872G	63.51	74.00	-10.49	32.75	3	Vertical	360	2.80	-	27.85	2.91	-
AV	2.4872G	50.67	54.00	-3.33	19.91	3	Vertical	360	2.80	-	27.85	2.91	-

VHT40_Nss1,(MCS0)_3TX

2452MHz_TX

31/07/2020



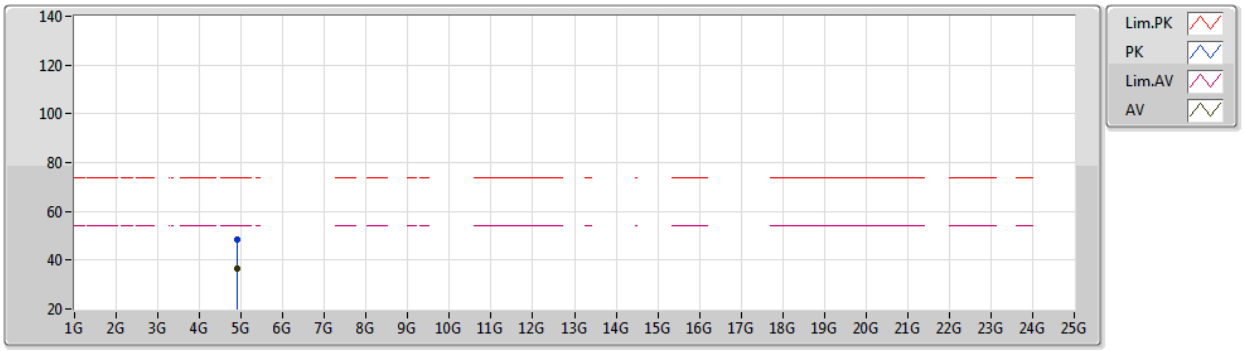
EUT Z_3TX
Setting 27
04-E-N-2

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	2.3848G	57.64	74.00	-16.36	27.27	3	Horizontal	91	2.75	-	27.52	2.85	-
AV	2.3896G	45.99	54.00	-8.01	15.63	3	Horizontal	91	2.75	-	27.51	2.85	-
PK	2.4556G	111.37	Inf	-Inf	80.76	3	Horizontal	91	2.75	-	27.72	2.89	-
AV	2.4504G	101.69	Inf	-Inf	71.10	3	Horizontal	91	2.75	-	27.70	2.89	-
PK	2.4852G	70.69	74.00	-3.31	39.94	3	Horizontal	91	2.75	-	27.84	2.91	-
AV	2.4856G	53.79	54.00	-0.21	23.04	3	Horizontal	91	2.75	-	27.84	2.91	-

VHT40_Nss1,(MCS0)_3TX

2452MHz_TX

31/07/2020



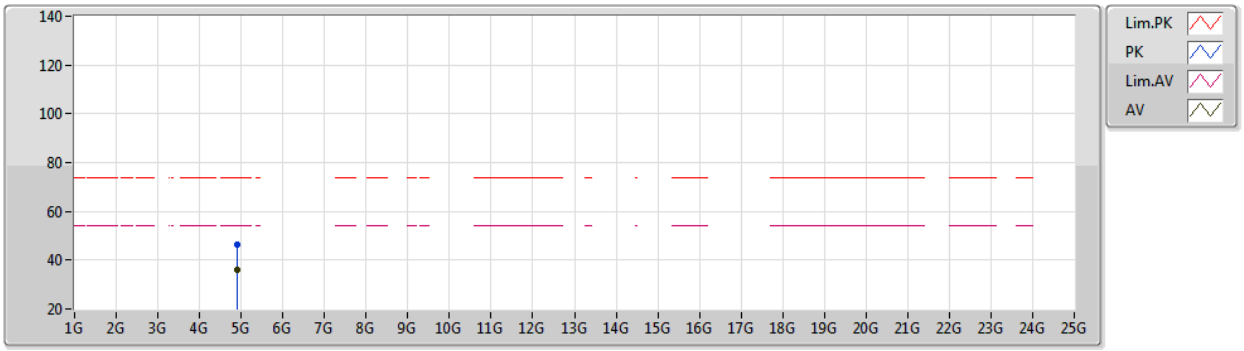
EUT Z_3TX
Setting 27
04-E-N-2

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	4.90376G	48.32	74.00	-25.68	43.31	3	Vertical	68	1.76	-	32.91	4.97	32.87
AV	4.90376G	36.55	54.00	-17.45	31.54	3	Vertical	68	1.76	-	32.91	4.97	32.87

VHT40_Nss1,(MCS0)_3TX

2452MHz_TX

31/07/2020



EUT Z_3TX
Setting 27
04-E-N-2

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	4.9028G	46.50	74.00	-27.50	41.49	3	Horizontal	299	2.47	-	32.91	4.97	32.87
AV	4.90392G	35.80	54.00	-18.20	30.79	3	Horizontal	299	2.47	-	32.91	4.97	32.87