RADIO TEST REPORT

Equipment	:	無線接入點
Brand Name	:	RUCKUS
Model Name	:	R350
Applicant	:	Ruckus Wireless, Inc. 350 West Java Dr, Sunnyvale CA 94089 USA
Manufacturer	:	Ruckus Wireless, Inc. 350 West Java Dr, Sunnyvale CA 94089 USA
Standard	:	LP0002 Section 4.10.1 (2020-07-01)

The product was received on Feb. 02, 2021, and testing was started from Feb. 02, 2021 and completed on May 19, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Cliff Chang

Sporton International Inc. Hsinchu Laboratory
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Appendix G. Test Photos

Photographs of EUT v01

History of this test report

Report No.	Version	Description	Issued Date
TR120214AA	01	Initial issue of report	Jul. 07, 2021

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	-

Note:
The test results of this report reference the Sporton Report No.: FR120214AA. 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:

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

Reviewed by: Sam Chen
Report Producer: Sandy Chuang

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)		Remark
						2.4GHz	5GHz	
1	2	Ruckus	120-11229-104	PCB Antenna	I-PEX	1.5	3.0	Horizontal Polarity
2	1	Ruckus	120-11258-002	PCB Antenna	I-PEX	2.0	3.2	Vertical Polarity

Note: The above information was declared by manufacturer.

For WLAN 2.4GHz Function:

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

For WLAN 5GHz Function:

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.983	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.94	0.27	1.984m	1k
802.11ax HEW20	0.949	0.23	5.449m	300
802.11ax HEW40	0.951	0.22	5.452m	300

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or PoE			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	QSPR (ver.5.0-00188)			

Note: The above information was declared by manufacturer.

1.1.5 EUT Supports Type

The EUT supports AP and bridge functions. only AP mode has been tested and recorded in this test report.

1.2 Applicable Standards

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

- LP0002 Section 4.10.1 (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 Information	
Test Lab.：Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Nyle Chuang	22.4-23.1 / 55-62	Apr. 27, 2021~ Apr. 28, 2021
Radiated <Intentional – CTX: 1GHz~10th Harmonic>	03CH04-CB	Stim Sun	21-22.2 / 55-57	Feb. 02, 2021~ Apr. 29, 2021
	03CH06-CB		20.3-21.5 / 56-58	
Radiated <Intentional – CTX: Below 1GHz>	03CH03-CB	Cola Fan	21.1-22.4 / 55-57	Apr. 29, 2021
Radiated <Unintentional-CRX: Below 1GHz and 1GHz~5th Harmonic>	03CH03-CB	Cola Fan	21.1-22.4 / 55-57	Apr. 29, 2021
AC Conduction	CO01-CB	Ryo Fan	21~22 / 60~61	May 04, 2021 ~May 19, 2021

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.9 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	0.4%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	22
2437MHz	24
2462MHz	21.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	20
2437MHz	22.5
2462MHz	20
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	20
2437MHz	22
2462MHz	20
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	19
2437MHz	19
2452MHz	19

Note:
- Evaluated HEW20/HEW40 mode only, due to similar modulation. The power setting of HT20/HT40 mode are the same or lower than HEW20/HEW40.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 110Vac / 60Hz
Operating Mode	Intentional - CTX
1	EUT + WLAN 2.4GHz + Adapter
2	EUT + WLAN 5GHz + Adapter
3	EUT + WLAN 2.4GHz + PoE
4	EUT + WLAN 5GHz + PoE
For operating mode 4 is the worst case and it was record in this test report.	
Operating Mode	Unintentional - CRX
1	EUT + WLAN 2.4GHz + Adapter
2	EUT + WLAN 5GHz + Adapter
3	EUT + WLAN 2.4GHz + PoE
4	EUT + WLAN 5GHz + PoE
For operating mode 2 is the worst case and it was record in this test report.	

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

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
1. The EUT can be placed in X axis, Y axis and Z axis. EUT in X axis has been evaluated to be the worst case at Emissions in Emissions in Restricted Frequency Bands <Intentional: Above 1GHz> ; thus, the measurement will follow this same test configuration. 2. The EUT was performed testing at WLAN 2.4GHz and WLAN 5GHz with adapter and PoE, After evaluating, WLAN 5GHz + Adapter has been evaluated to be the worst case, Consequently, measurement will follow this same test mode	
1	EUT in X axis + WLAN 5GHz + Adapter
Operating Mode < 1GHz	Unintentional - CRX
The EUT can be placed in X axis , Y axis and Z axis. EUT in X axis has been evaluated to be the worst case at Emissions in Emissions in Restricted Frequency Bands <Intentional: Above 1GHz> ; thus, the measurement will follow this same test configuration.	
1	EUT in X axis + WLAN 2.4GHz + Adapter
2	EUT in X axis + WLAN 5GHz + Adapter
3	EUT in X axis + WLAN 2.4GHz + PoE
4	EUT in X axis + WLAN 5GHz + PoE
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode Unintentional 1GHz~5th Harmonic	Unintentional - CRX
1. The EUT can be placed in X axis , Y axis and Z axis. EUT in X axis has been evaluated to be the worst case at Emissions in Emissions in Restricted Frequency Bands <Intentional: above 1GHz> ; thus, the measurement will follow this same test configuration. 2. The EUT was performed testing at WLAN 2.4GHz and WLAN 5GHz with adapter and PoE, After evaluating, WLAN 5GHz + Adapter has been evaluated to be the worst case, at Emissions in Emissions in Restricted Frequency Bands <Unintentional: below 1GHz> Consequently, measurement will follow this same test mode	
1	EUT in X axis + WLAN 5GHz + Adapter
Operating Mode Intentional 1GHz~10th Harmonic	Intentional - CTX
The EUT was performed at X axis, Y axis and Z axis position, and the worst case as below:	
1	EUT (Bandedge at Z axis / Harmonic at X axis)

Note 1: The PoE below are for measurement only, would not be marketed.

The PoE information as below:

Support Unit	Brand Holder	Model Name
PoE	Ruckus	740-64214-001

Note 2: 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

The EUT was programmed to be in continuously transmitting / receiving mode.

2.4 Accessories

Accessories				
Equipment Name	**Brand Name**	**Model Name**	**Rating**	**Remark**
Adapter	Ruckus	HK-AR-120A100-US	Input: 100-240~50/60Hz 0.35A Output: 12V, 1.0A	Provided by applicant
Other				
Equipment Name	**Brand Name**	**Model Name**	**Remark**	**Remark**
Wallmount kit*1	Ruckus	902-0195-0000	-	Provided by applicant

2.5 Support Equipment

For AC Conduction:
Intentional - CTX

Support Equipment					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
A	LAN NB	DELL	E6430	N/A	Provided by Lab
B	PoE	Ruckus	740-64214-001	N/A	Provided by applicant
C	Flash disk3.0	Transcend	JetFlash-700	N/A	Provided by Lab

Unintentional - CRX

Support Equipment					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
A	LAN NB	DELL	E6430	N/A	Provided by Lab
B	Flash disk3.0	Transcend	JetFlash-700	N/A	Provided by Lab

For Radiated:
Intentional - CTX: Below 1GHz

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

Unintentional - CRX: Below 1GHz and 1GHz~5th Harmonic

Support Equipment					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
A	Notebook	DELL	E4300	N/A	Provided by Lab.
B	Flash disk3.0	Silicon Power	B06	N/A	Provided by Lab.

For Radiated:
Intentional - CTX: 1GHz~10th Harmonic

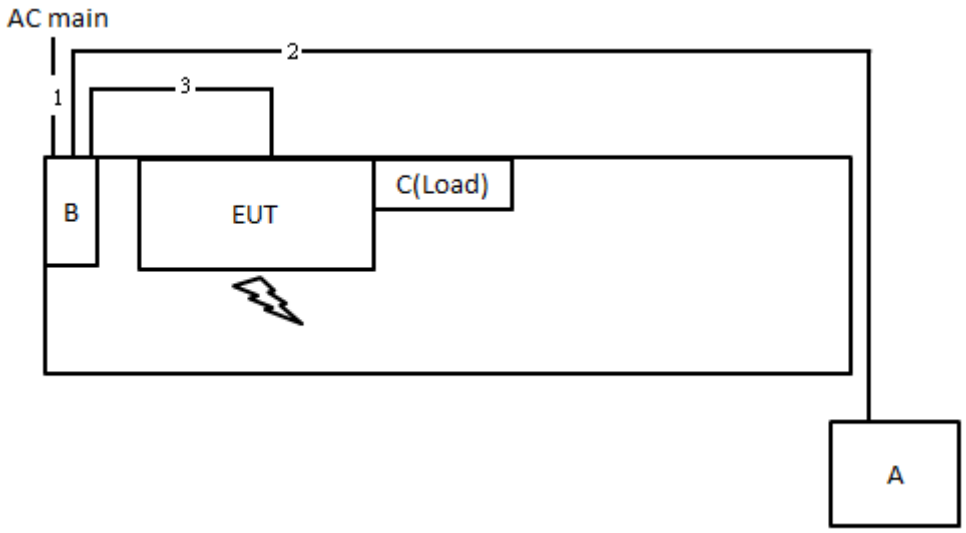
Support Equipment					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
A	NB	DELL	E4300	N/A	Provided by Lab
B	PoE	RUCKUS	740-64214-001	N/A	Provided by applicant

For RF Conducted:

Support Equipment					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
A	NB	DELL	E4300	N/A	Provided by Lab
B	PoE	RUCKUS	740-64214-001	N/A	Provided by applicant

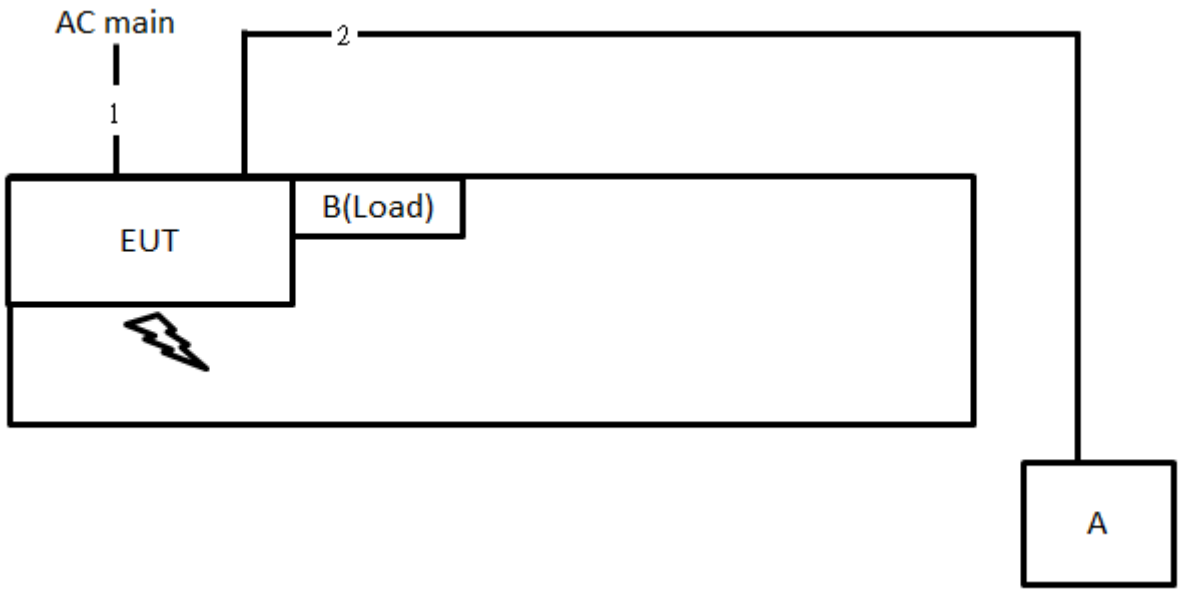
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (Intentional - CTX)



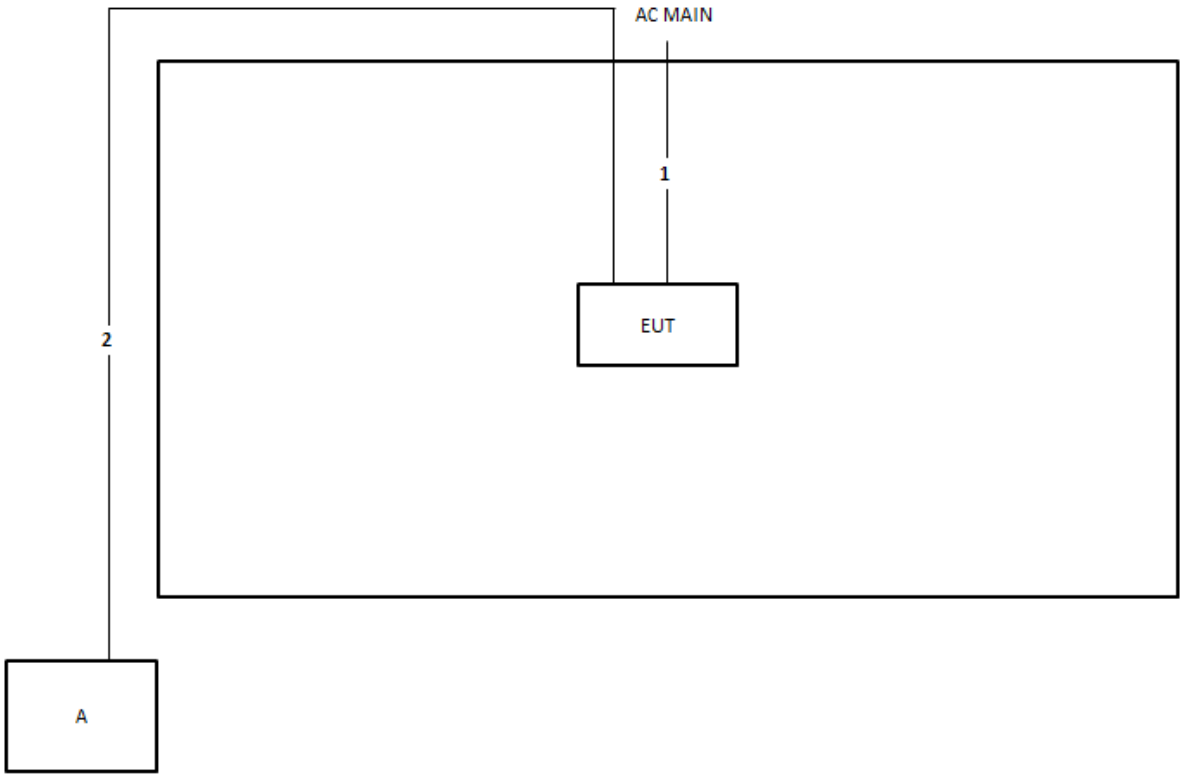
Item	Connection	Shielded	Length	Brand Name	Model Name	Remark
1	Power cable	No	0.7m	-	-	-
2	RJ-45 cable	No	10m	-	-	-
3	RJ-45 cable	No	1m	PowerSync	CLN5GBR9020	Provided by Lab.

Test Setup Diagram – AC Line Conducted Emission Test
(Unintentional - CRX)



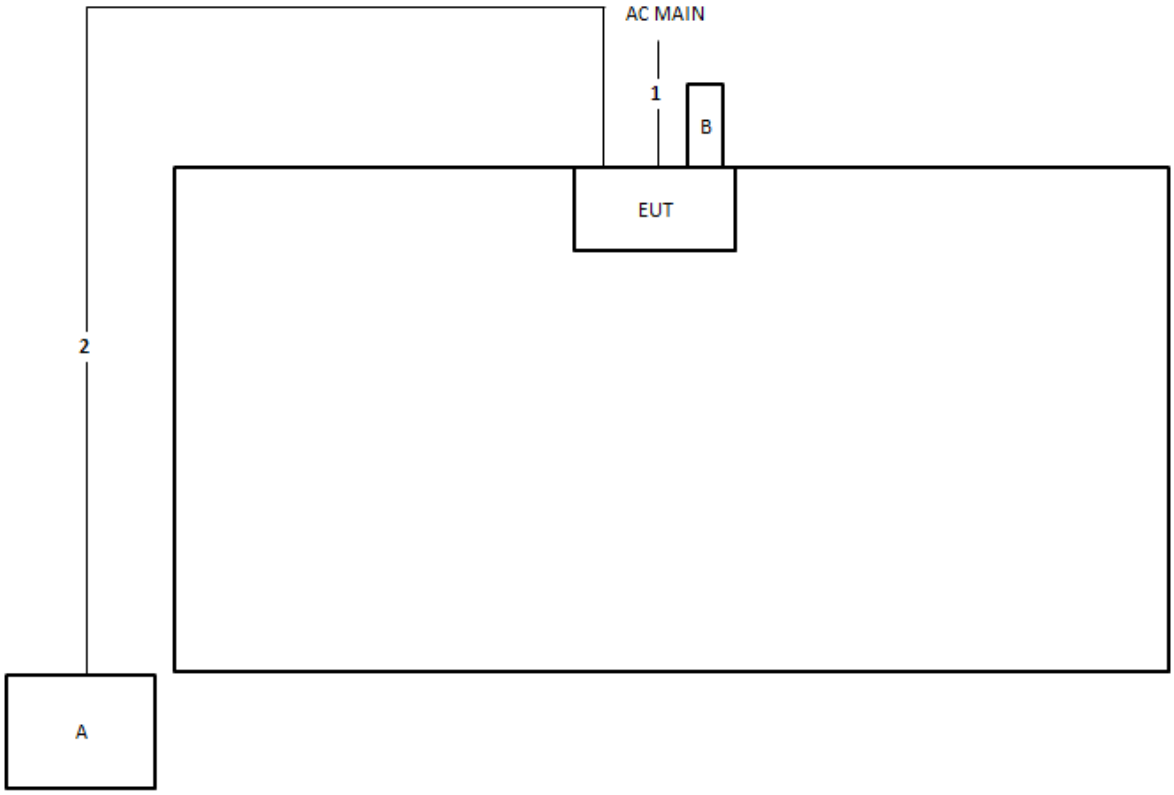
Item	Connection	Shielded	Length	Brand Name	Model Name	Remark
1	Power cable	No	1.8m	Ruckus	HK-AR-120A100-US	Provided by applicant.
2	RJ-45 cable	No	10m	PowerSync	CLN5GBR9020	Provided by Lab.

Test Setup Diagram - Radiated Test
(Intentional - CTX: Below 1GHz)



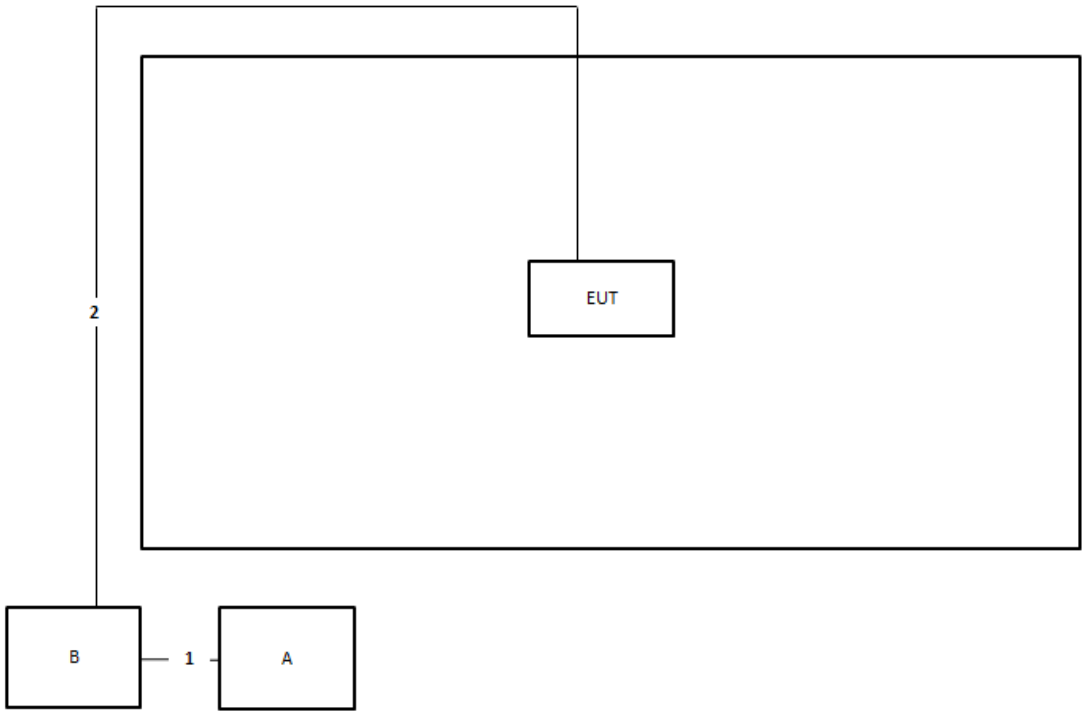
Item	Connection	Shielded	Length	Brand Name	Model Name	Remark
1	Power cable	No	1.8m	Ruckus	HK-AR-120A100-US	Provided by applicant
2	RJ-45 cable	No	10m	PowerSync	CLN5GBR9020	Provided by Lab.

Test Setup Diagram - Radiated Test
(Unintentional - CRX: Below 1GHz and 1GHz~5th Harmonic)



Item	Connection	Shielded	Length	Brand Name	Model Name	Remark
1	Power cable	No	1.8m	Ruckus	HK-AR-120A100-US	Provided by applicant
2	RJ-45 cable	No	10m	PowerSync	CLN5GBR9020	Provided by Lab.

Test Setup Diagram - Radiated Test
(Intentional - CTX: 1GHz~10th Harmonic)



Item	Connection	Shielded	Length	Brand Name	Model Name	Remark
1	RJ-45 cable	No	1.5m	-	-	Provided by Lab.
2	RJ-45 cable	No	10m	PowerSync	CLN5GBR9020	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

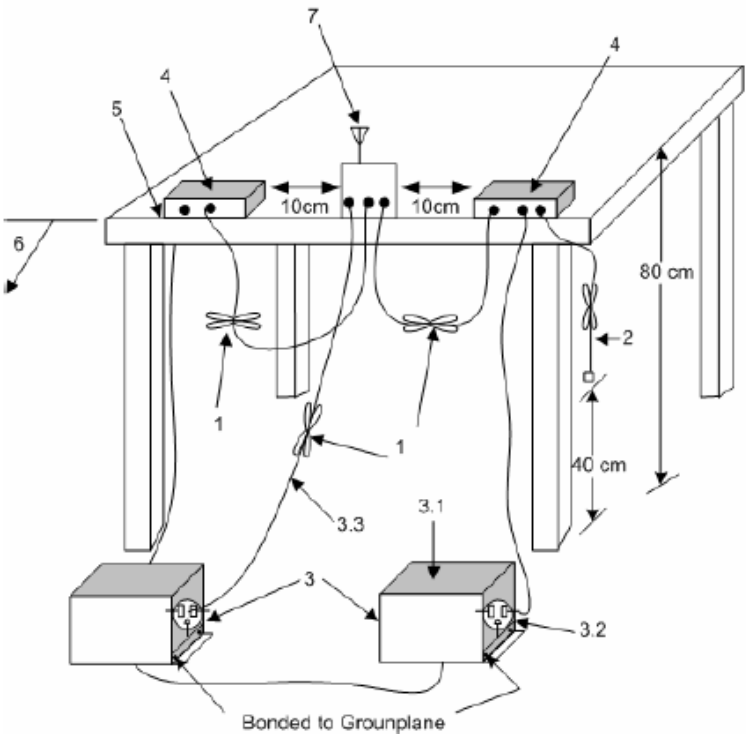
Refer a test equipment and calibration data table in this test report.

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

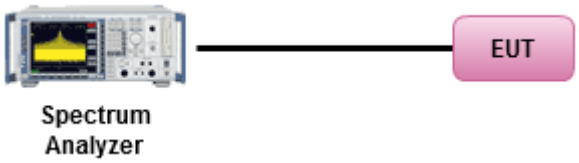
Refer a test equipment and calibration data table in this test report.

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

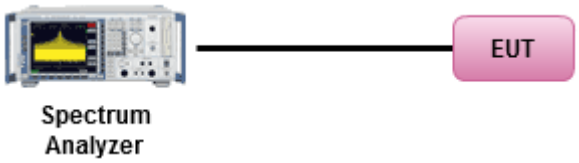
Refer a test equipment and calibration data table in this test report.

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

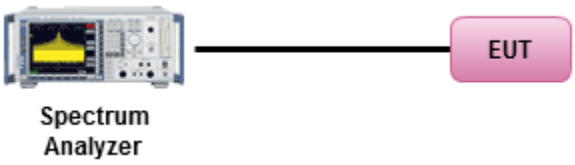
Refer a test equipment and calibration data table in this test report.

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.

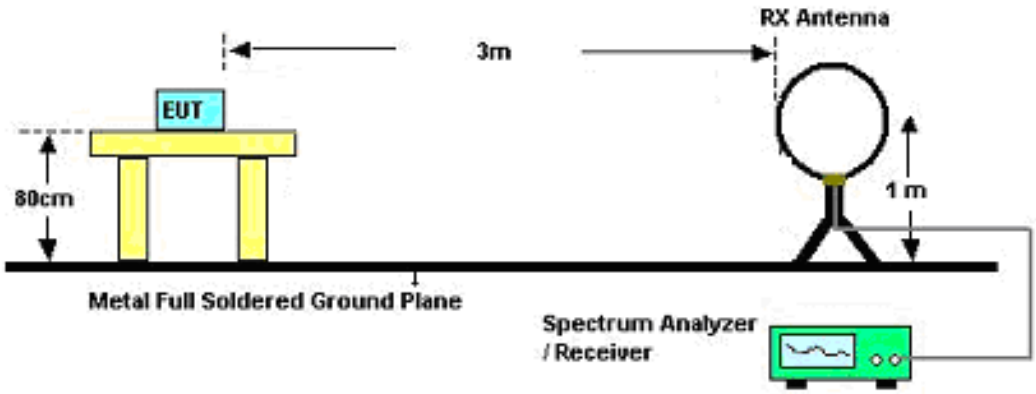
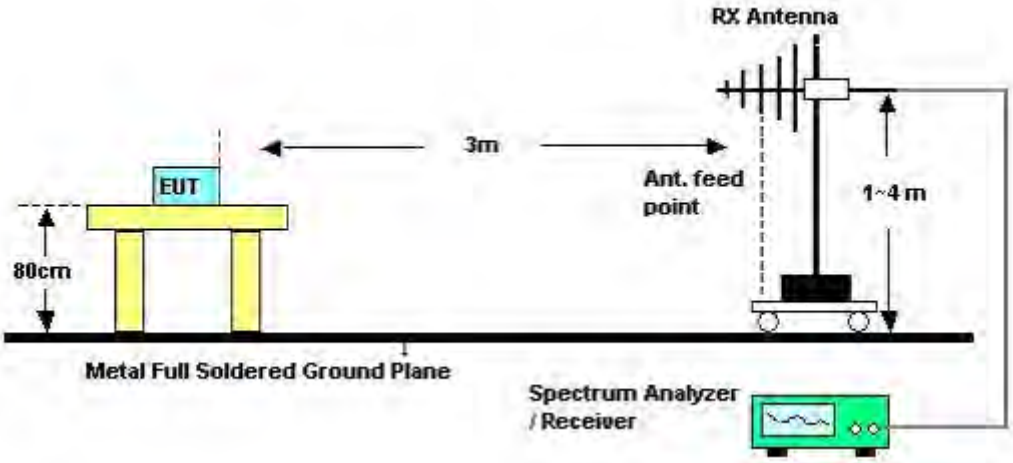
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

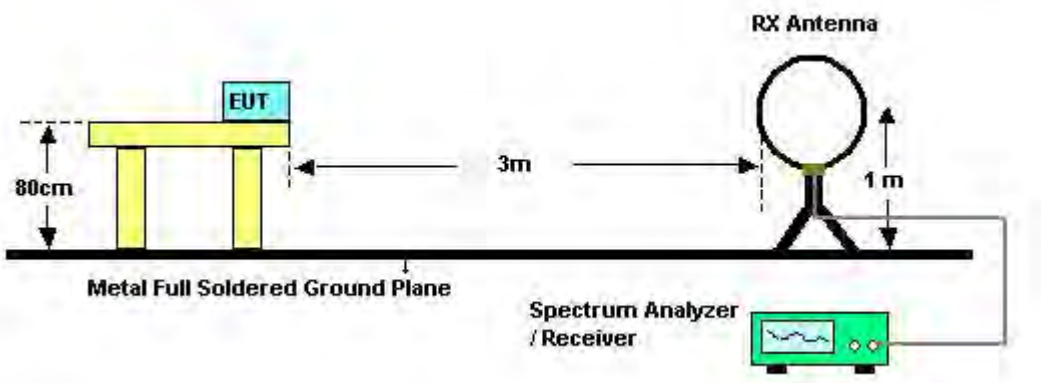
Test Method			
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].			
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.			
▪ For the transmitter unwanted 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

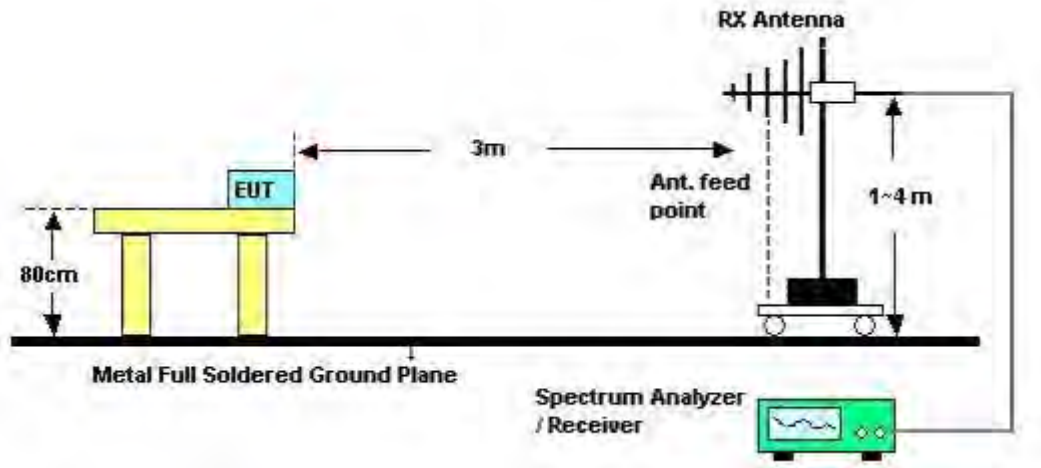
Radiated - Emissions in Restricted Frequency Bands
Intentional – CTX
9kHz ~30MHz

30MHz~1GHz


Unintentional – CRX

9kHz ~30MHz

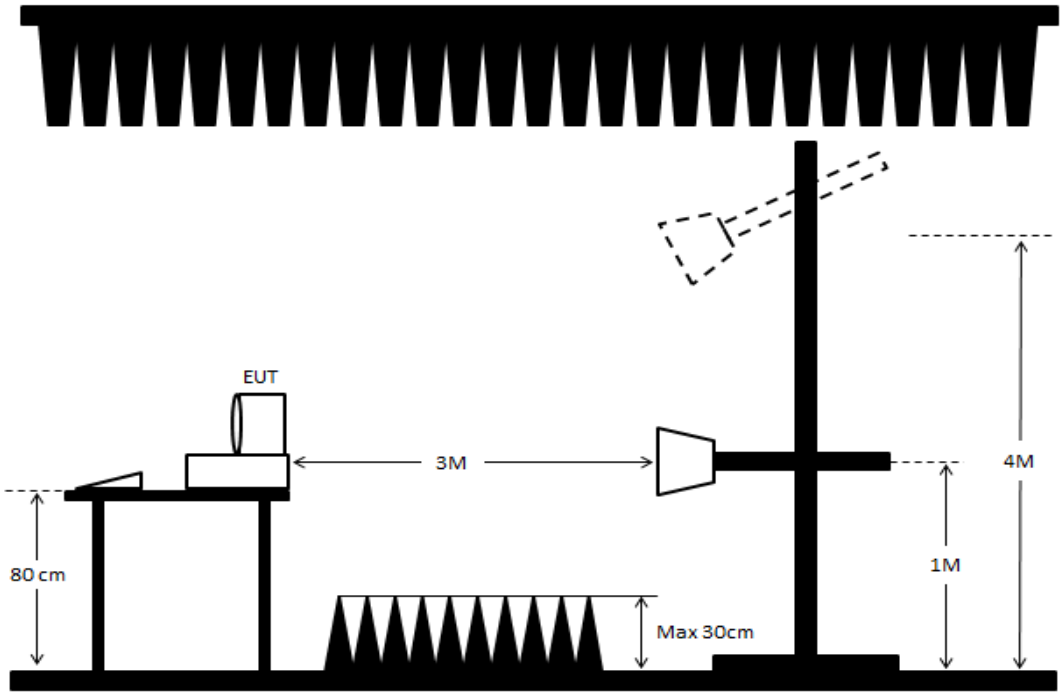


30MHz~1GHz

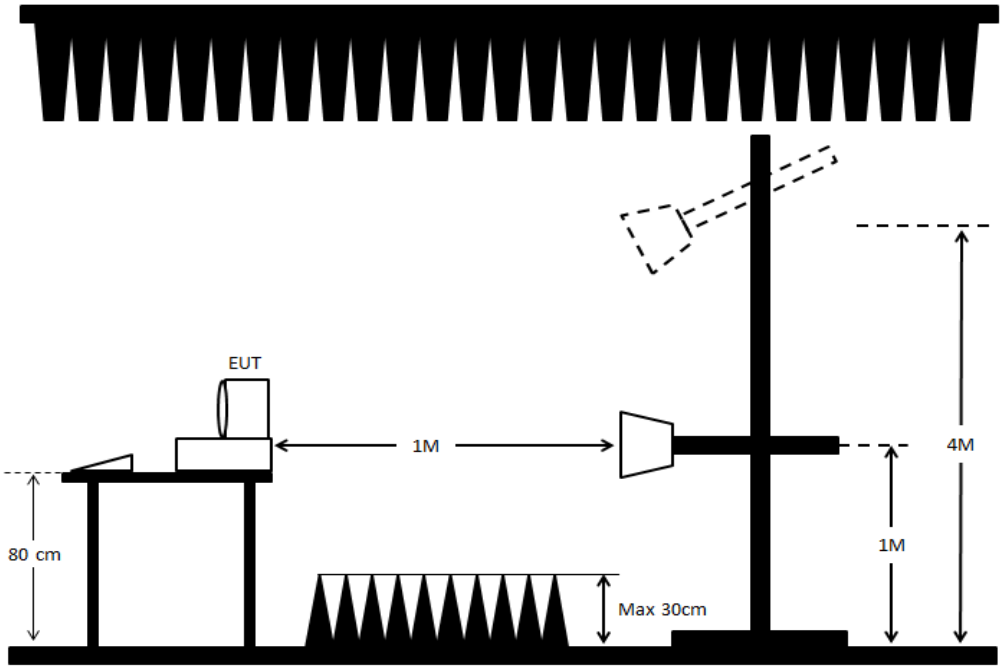


Unintentional – CRX

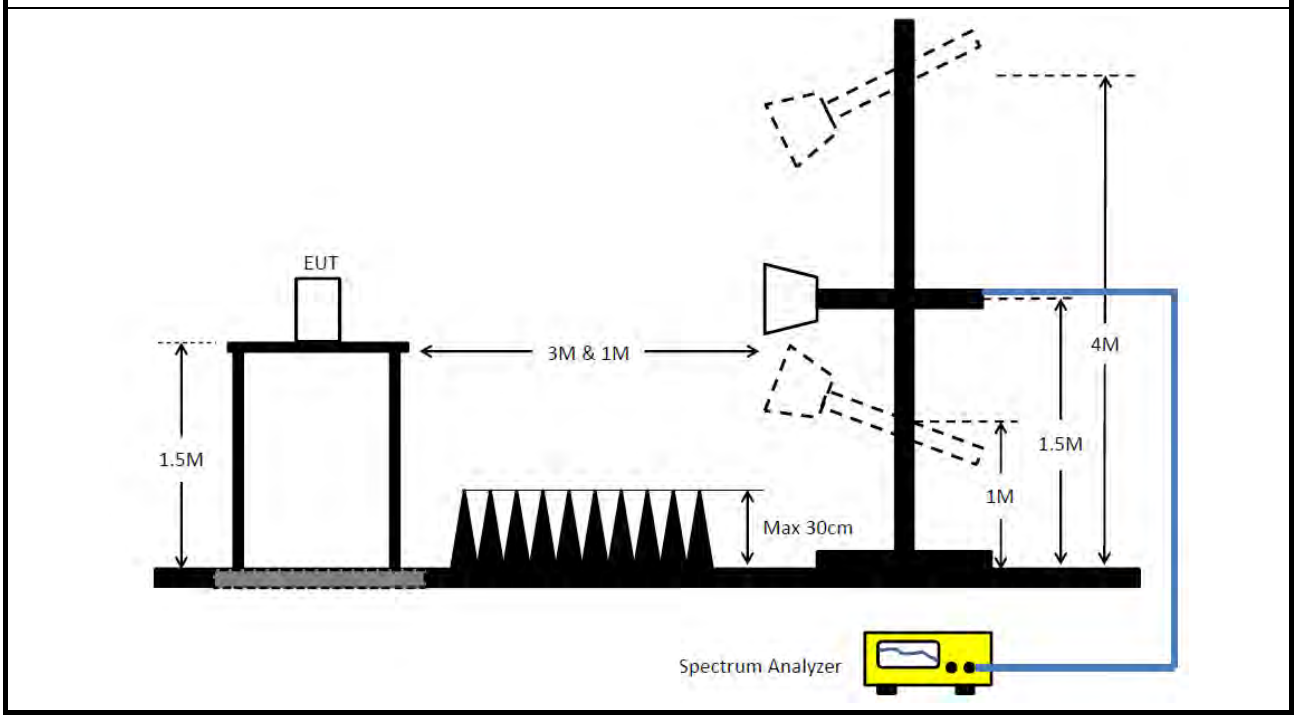
For Unintentional 1GHz~5th Harmonic (1,000~18,000 MHz)



For Unintentional 1GHz~5th Harmonic (18,000~30,000 MHz)



Intentional – CTX
For Intentional 1GHz~10th Harmonic



3.6.5 Measurement Results Calculation

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	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)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH03-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 16, 2021	Mar. 15, 2022	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 27, 2021	Jan. 26, 2022	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 28, 2020	Feb. 27, 2021	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 22, 2021	Feb. 21, 2022	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 28, 2020	May 27, 2021	Radiation (03CH03-CB)
Horn Antenna	COM-POWER	AH-118	071028	1GHz ~ 18GHz	Jun. 09, 2020	Jun. 08, 2021	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 11, 2021	Jan. 10, 2022	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-20+29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-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 (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)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 26, 2020	Feb. 25, 2021	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 25, 2021	Feb. 24, 2022	Radiation (03CH04-CB)
Horn Antenna	ETS・Lindgren	3115	00143147	750MHz~18GHz	Oct. 23, 2020	Oct. 22, 2021	Radiation (03CH04-CB)
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)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	May 12, 2020	May 11, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Nov. 05, 2020	Nov. 04, 2021	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)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2020	Oct. 01, 2021	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 22, 2020	Jul. 21, 2021	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 07, 2020	May 06, 2021	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 15, 2020	Dec. 14, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+24	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH06-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 27, 2020	Jul. 26, 2021	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

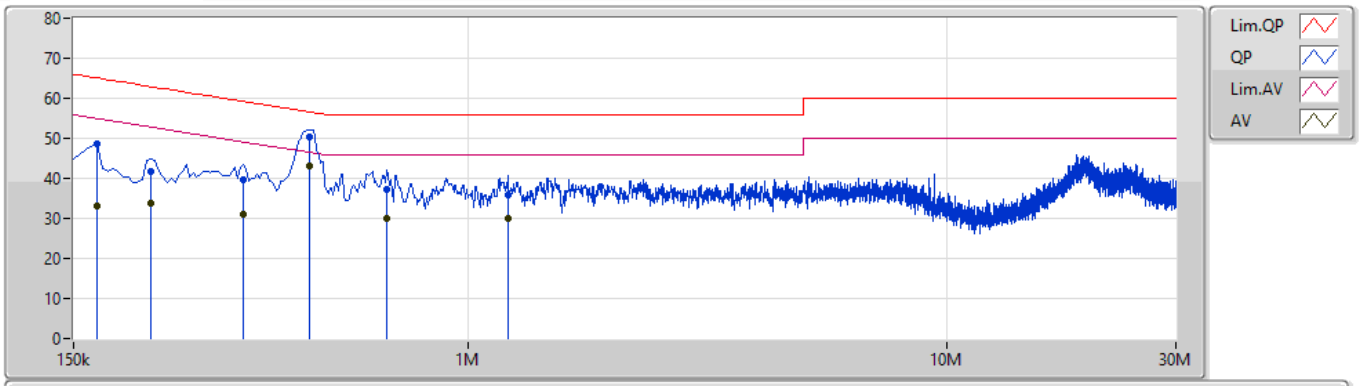
NCR means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 4	Pass	AV	465k	43.10	46.61	-3.51	Line

Mode 4

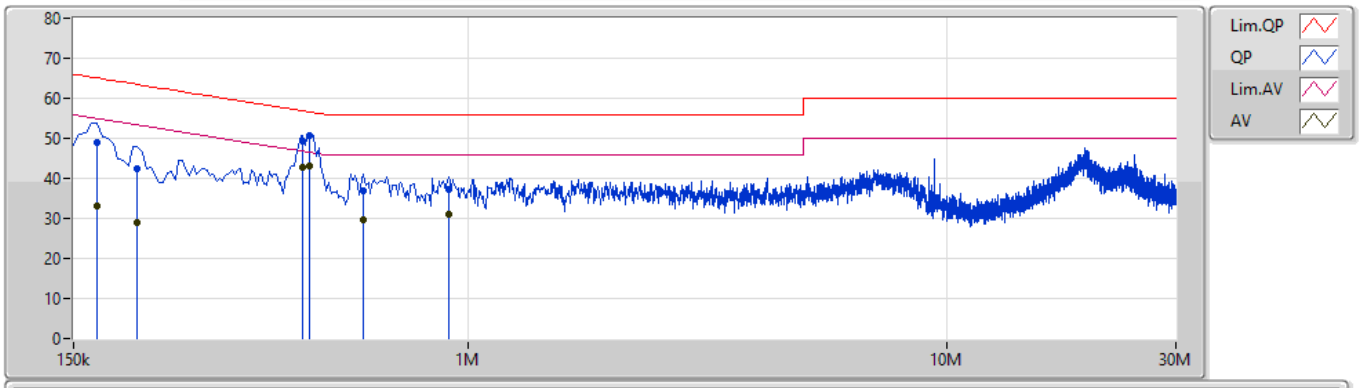
19/05/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	168k	48.48	65.06	-16.58	9.88	Line	-	38.60	0.04	0.03	9.81
AV	168k	33.26	55.06	-21.80	9.88	Line	-	23.38	0.04	0.03	9.81
QP	217.5k	41.79	62.92	-21.13	9.88	Line	-	31.91	0.04	0.03	9.81
AV	217.5k	33.86	52.92	-19.06	9.88	Line	-	23.98	0.04	0.03	9.81
QP	339k	39.54	59.23	-19.69	9.89	Line	-	29.65	0.04	0.03	9.82
AV	339k	31.05	49.23	-18.18	9.89	Line	-	21.16	0.04	0.03	9.82
QP	465k	50.31	56.61	-6.30	9.89	Line	-	40.42	0.04	0.03	9.82
AV	465k	43.10	46.61	-3.51	9.89	Line	"Worst"	33.21	0.04	0.03	9.82
QP	676.5k	37.26	56.00	-18.74	9.92	Line	-	27.34	0.05	0.04	9.83
AV	676.5k	30.14	46.00	-15.86	9.92	Line	-	20.22	0.05	0.04	9.83
QP	1.208M	35.99	56.00	-20.01	9.95	Line	-	26.04	0.07	0.05	9.83
AV	1.208M	29.97	46.00	-16.03	9.95	Line	-	20.02	0.07	0.05	9.83

Mode 4

19/05/2021



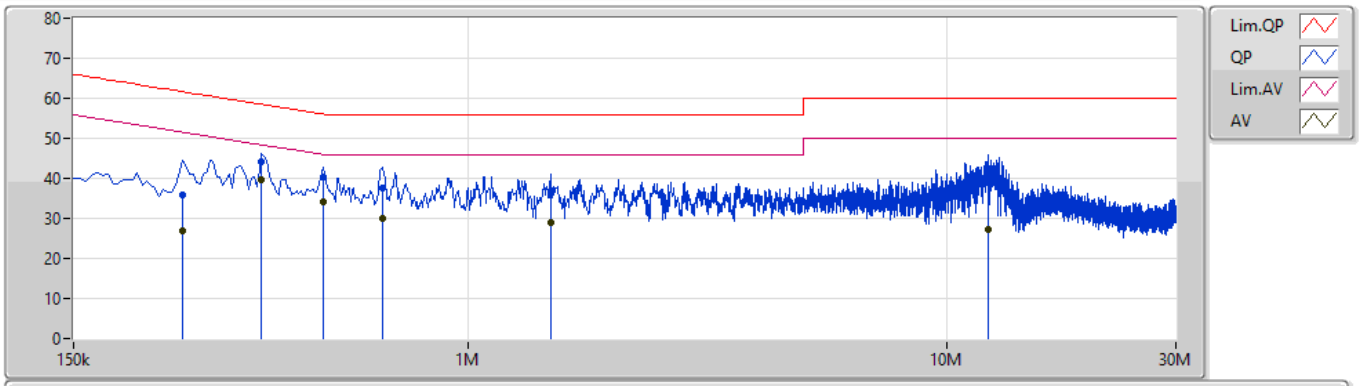
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	168k	49.08	65.06	-15.98	9.87	Neutral	-	39.21	0.03	0.03	9.81
AV	168k	33.18	55.06	-21.88	9.87	Neutral	-	23.31	0.03	0.03	9.81
QP	204k	42.46	63.44	-20.98	9.87	Neutral	-	32.59	0.03	0.03	9.81
AV	204k	28.87	53.44	-24.57	9.87	Neutral	-	19.00	0.03	0.03	9.81
QP	451.5k	49.46	56.84	-7.38	9.88	Neutral	-	39.58	0.03	0.03	9.82
AV	451.5k	42.80	46.84	-4.04	9.88	Neutral	-	32.92	0.03	0.03	9.82
QP	465k	50.58	56.61	-6.03	9.88	Neutral	-	40.70	0.03	0.03	9.82
AV	465k	42.94	46.61	-3.67	9.88	Neutral	"Worst"	33.06	0.03	0.03	9.82
QP	604.5k	36.90	56.00	-19.10	9.89	Neutral	-	27.01	0.04	0.03	9.82
AV	604.5k	29.50	46.00	-16.50	9.89	Neutral	-	19.61	0.04	0.03	9.82
QP	910.5k	37.10	56.00	-18.90	9.92	Neutral	-	27.18	0.05	0.04	9.83
AV	910.5k	30.88	46.00	-15.12	9.92	Neutral	-	20.96	0.05	0.04	9.83

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	AV	370.5k	39.63	48.49	-8.86	Line

Mode 2

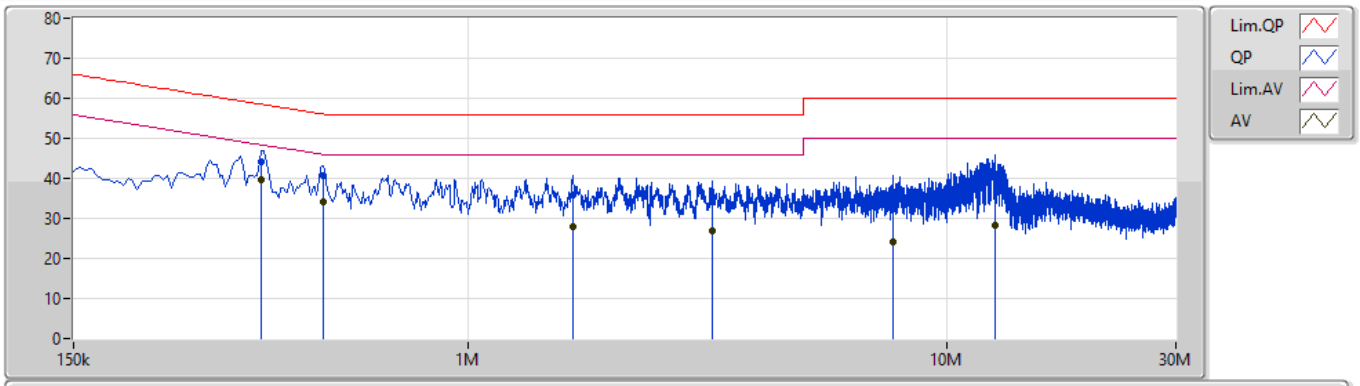
04/05/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	253.5k	35.69	61.64	-25.95	9.88	Line	-	25.81	0.04	0.03	9.81
AV	253.5k	26.80	51.64	-24.84	9.88	Line	-	16.92	0.04	0.03	9.81
QP	370.5k	44.12	58.49	-14.37	9.89	Line	-	34.23	0.04	0.03	9.82
AV	370.5k	39.63	48.49	-8.86	9.89	Line	"Worst"	29.74	0.04	0.03	9.82
QP	496.5k	40.46	56.06	-15.60	9.89	Line	-	30.57	0.04	0.03	9.82
AV	496.5k	34.30	46.06	-11.76	9.89	Line	-	24.41	0.04	0.03	9.82
QP	663k	37.68	56.00	-18.32	9.92	Line	-	27.76	0.05	0.04	9.83
AV	663k	30.15	46.00	-15.85	9.92	Line	-	20.23	0.05	0.04	9.83
QP	1.487M	36.85	56.00	-19.15	9.96	Line	-	26.89	0.08	0.06	9.82
AV	1.487M	28.91	46.00	-17.09	9.96	Line	-	18.95	0.08	0.06	9.82
QP	12.152M	40.65	60.00	-19.35	10.34	Line	-	30.31	0.25	0.19	9.90
AV	12.152M	27.36	50.00	-22.64	10.34	Line	-	17.02	0.25	0.19	9.90

Mode 2

04/05/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	370.5k	44.26	58.49	-14.23	9.88	Neutral	-	34.38	0.03	0.03	9.82
AV	370.5k	39.58	48.49	-8.91	9.88	Neutral	"Worst"	29.70	0.03	0.03	9.82
QP	496.5k	40.84	56.06	-15.22	9.88	Neutral	-	30.96	0.03	0.03	9.82
AV	496.5k	34.14	46.06	-11.92	9.88	Neutral	-	24.26	0.03	0.03	9.82
QP	1.653M	35.83	56.00	-20.17	9.94	Neutral	-	25.89	0.06	0.06	9.82
AV	1.653M	28.05	46.00	-17.95	9.94	Neutral	-	18.11	0.06	0.06	9.82
QP	3.233M	35.40	56.00	-20.60	10.05	Neutral	-	25.35	0.09	0.11	9.85
AV	3.233M	26.81	46.00	-19.19	10.05	Neutral	-	16.76	0.09	0.11	9.85
QP	7.683M	33.81	60.00	-26.19	10.20	Neutral	-	23.61	0.17	0.14	9.89
AV	7.683M	23.99	50.00	-26.01	10.20	Neutral	-	13.79	0.17	0.14	9.89
QP	12.557M	41.05	60.00	-18.95	10.33	Neutral	-	30.72	0.23	0.19	9.91
AV	12.557M	28.14	50.00	-21.86	10.33	Neutral	-	17.81	0.23	0.19	9.91

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	7.55M	16.092M	16M1G1D	7.1M	12.969M
802.11g_Nss1,(6Mbps)_2TX	15.1M	18.866M	18M9D1D	13.75M	16.242M
802.11ax HEW20_Nss1,(MCS0)_2TX	16.6M	19.015M	19M0D1D	10.075M	18.766M
802.11ax HEW40_Nss1,(MCS0)_2TX	36.25M	37.631M	37M6D1D	27.45M	37.531M

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

Result

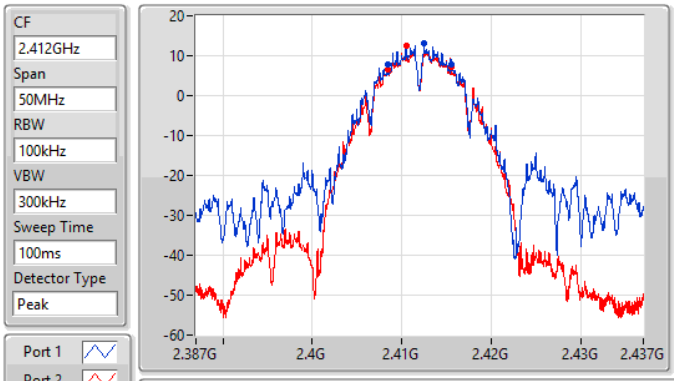
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.1M	13.343M	7.125M	12.969M
2437MHz	Pass	500k	7.55M	16.092M	7.1M	14.243M
2462MHz	Pass	500k	7.125M	13.093M	7.2M	13.143M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	13.75M	16.242M	15.1M	16.242M
2437MHz	Pass	500k	15.05M	16.467M	13.75M	18.866M
2462MHz	Pass	500k	15.05M	16.267M	15.1M	16.242M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15M	18.766M	13.75M	18.791M
2437MHz	Pass	500k	10.075M	18.866M	12.55M	19.015M
2462MHz	Pass	500k	13.775M	18.816M	16.6M	18.816M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	32.55M	37.631M	33.8M	37.531M
2437MHz	Pass	500k	36.25M	37.581M	30.8M	37.581M
2452MHz	Pass	500k	27.45M	37.581M	32.55M	37.531M

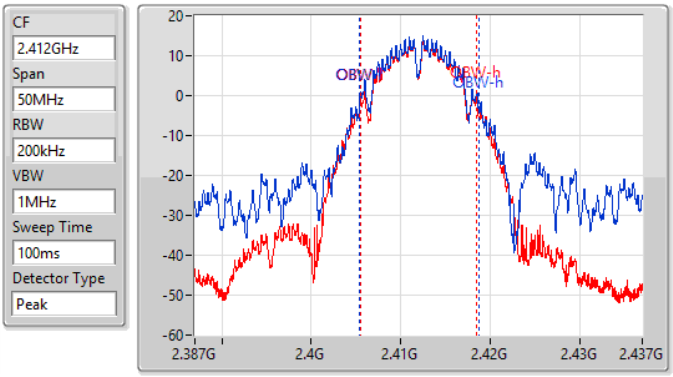
Port X-N dB = Port **X** 6dB down bandwidth; **Port X-OBW** = Port **X** 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX EBW

2412MHz

28/04/2021



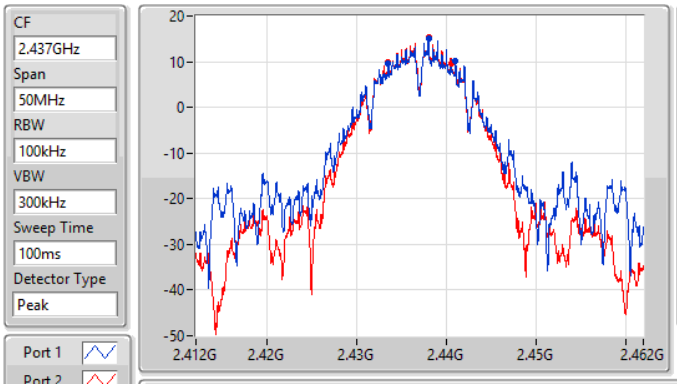


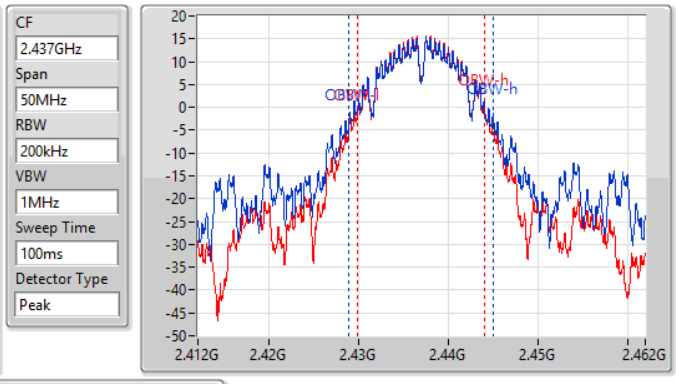
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.1M	2.40845G	2.41555G	13.343M	2.405403G	2.418747G	500k	1
7.125M	2.408425G	2.41555G	12.969M	2.405528G	2.418497G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2437MHz

28/04/2021



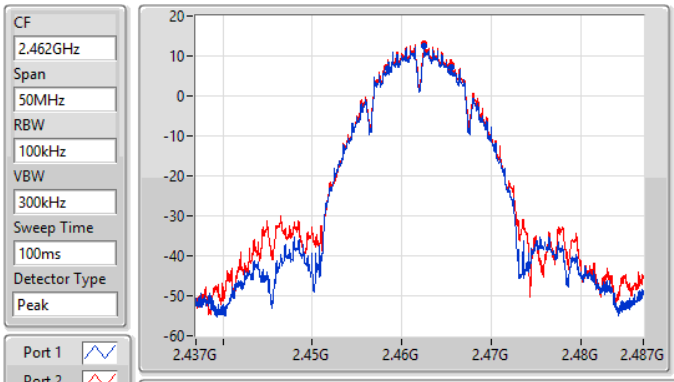


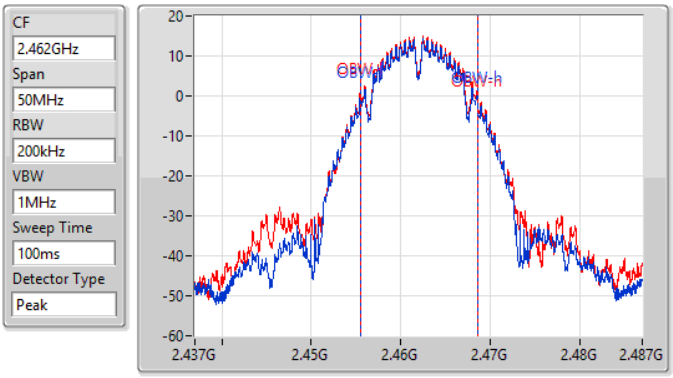
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.55M	2.433475G	2.441025G	16.092M	2.428904G	2.444996G	500k	1
7.1M	2.43345G	2.44055G	14.243M	2.429804G	2.444046G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2462MHz

28/04/2021



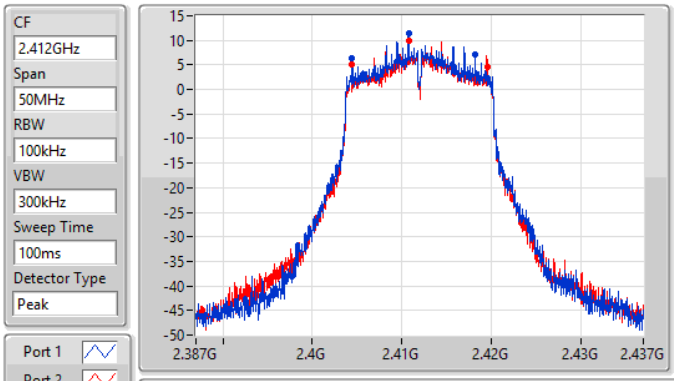


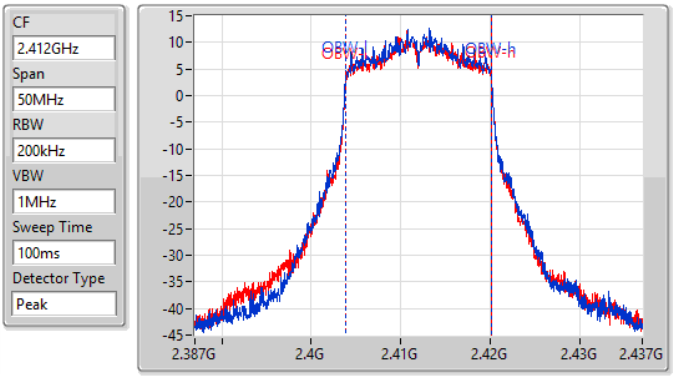
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.125M	2.458425G	2.46555G	13.093M	2.455478G	2.468572G	500k	1
7.2M	2.45835G	2.46555G	13.143M	2.455478G	2.468622G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2412MHz

28/04/2021



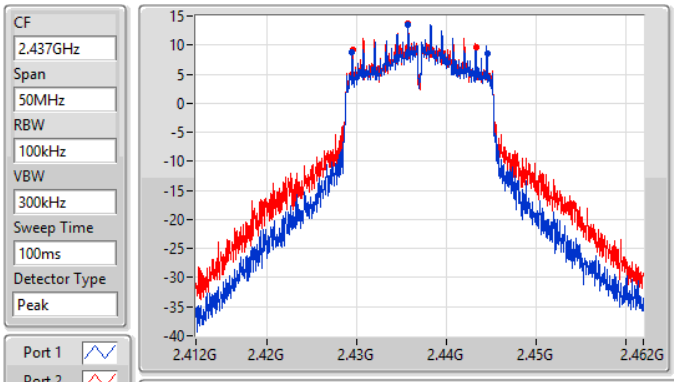


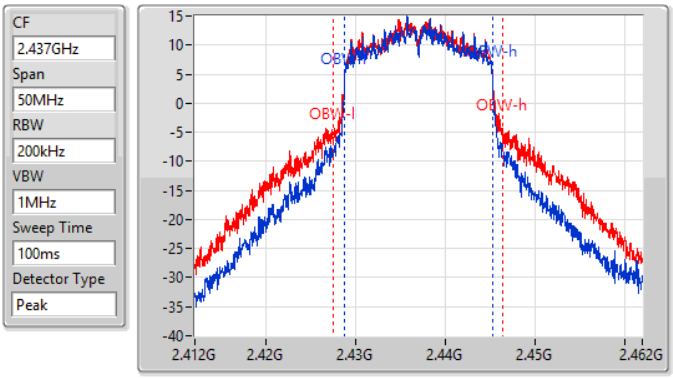
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
13.75M	2.404475G	2.418225G	16.242M	2.403879G	2.420121G	500k	1
15.1M	2.40445G	2.41955G	16.242M	2.403879G	2.420121G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2437MHz

28/04/2021



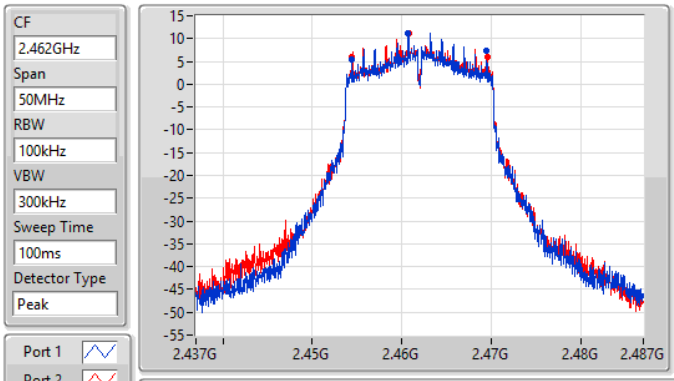


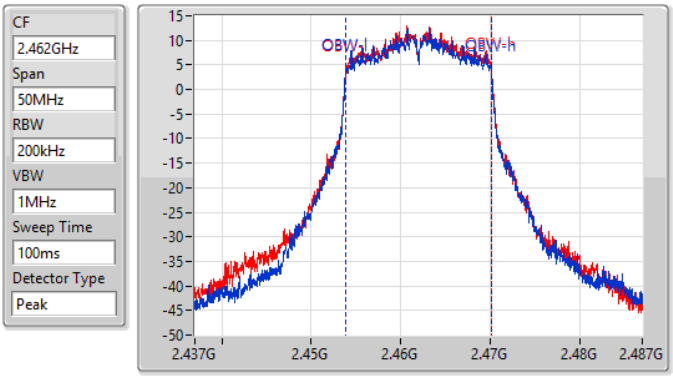
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.05M	2.429475G	2.444525G	16.467M	2.428754G	2.445221G	500k	1
13.75M	2.429525G	2.443275G	18.866M	2.42748G	2.446345G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2462MHz

28/04/2021



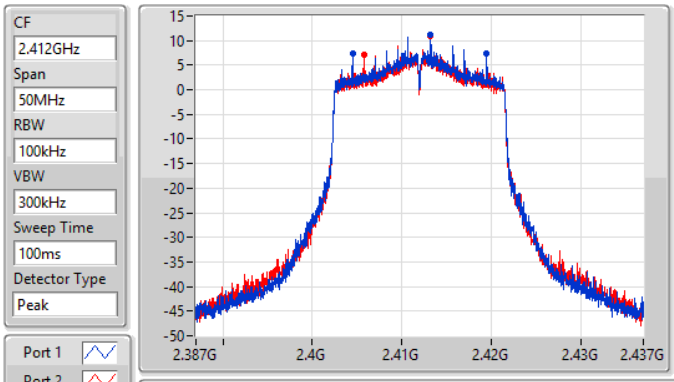


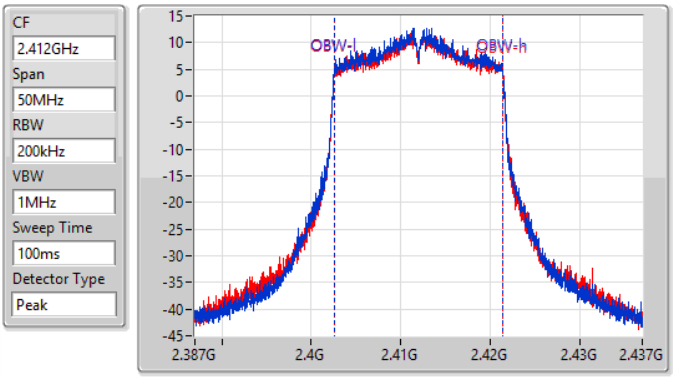
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.05M	2.45445G	2.4695G	16.267M	2.453879G	2.470146G	500k	1
15.1M	2.45445G	2.46955G	16.242M	2.453904G	2.470146G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

2412MHz

28/04/2021



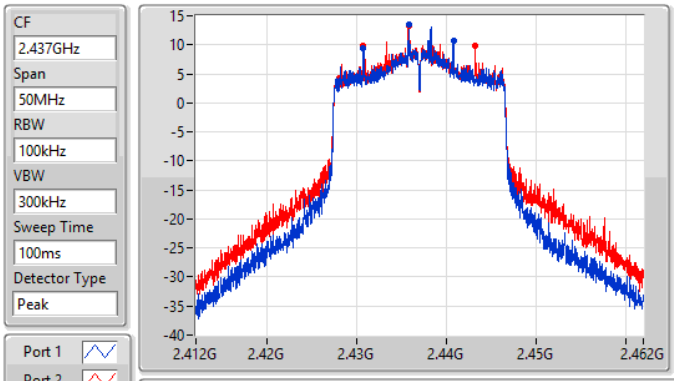


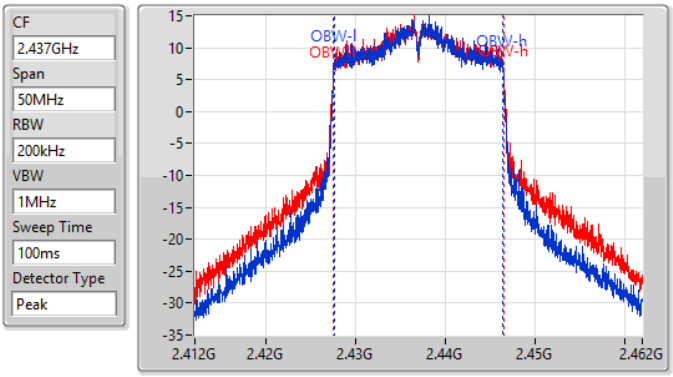
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15M	2.4045G	2.4195G	18.766M	2.402605G	2.42137G	500k	1
13.75M	2.40575G	2.4195G	18.791M	2.402605G	2.421395G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

2437MHz

28/04/2021



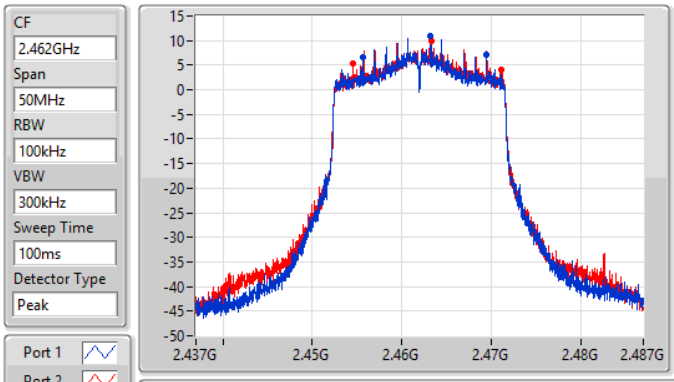


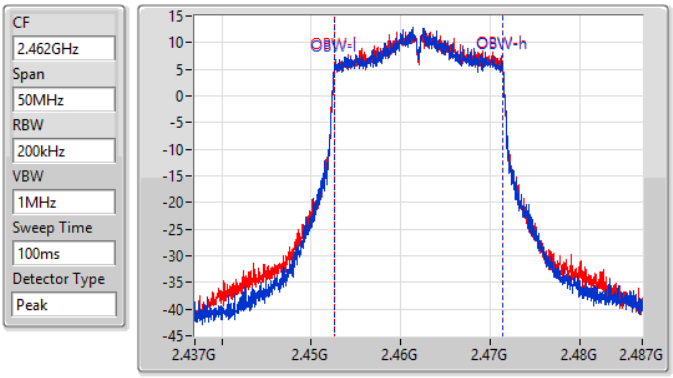
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.075M	2.4307G	2.440775G	18.866M	2.427555G	2.44642G	500k	1
12.55M	2.4307G	2.44325G	19.015M	2.42748G	2.446495G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

2462MHz

28/04/2021



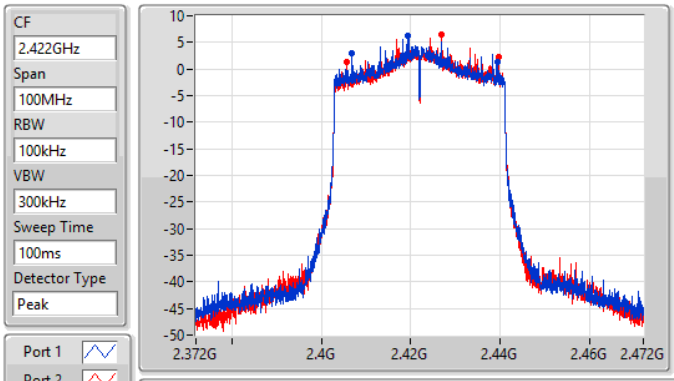


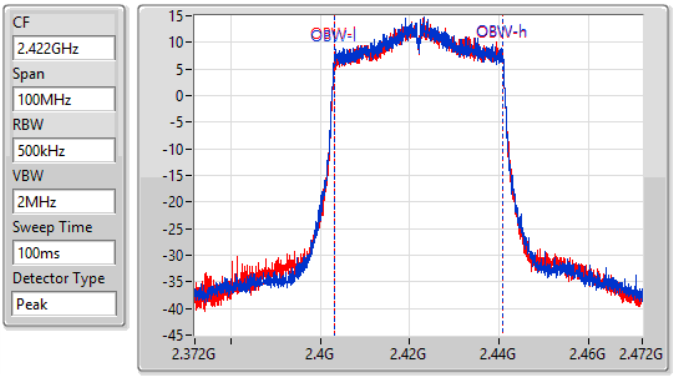
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
13.775M	2.4557G	2.469475G	18.816M	2.45258G	2.471395G	500k	1
16.6M	2.45455G	2.47115G	18.816M	2.452605G	2.47142G	500k	2

802.11ax HEW40_Nss1,(MCS0)_2TX EBW

2422MHz

28/04/2021



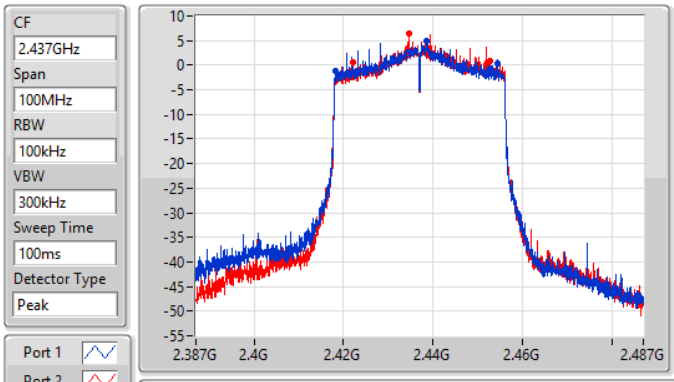


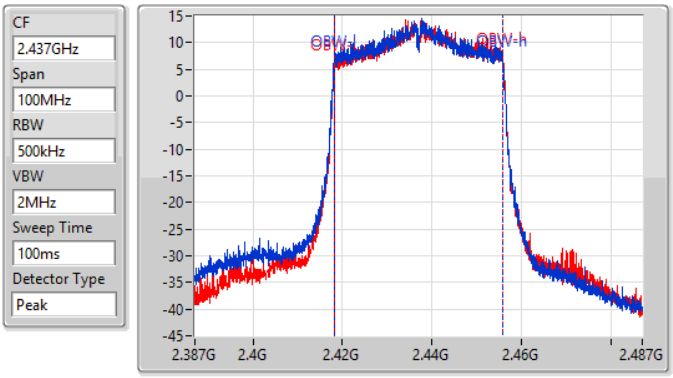
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
32.55M	2.40695G	2.4395G	37.631M	2.403159G	2.440791G	500k	1
33.8M	2.40575G	2.43955G	37.531M	2.403309G	2.440841G	500k	2

802.11ax HEW40_Nss1,(MCS0)_2TX EBW

2437MHz

28/04/2021



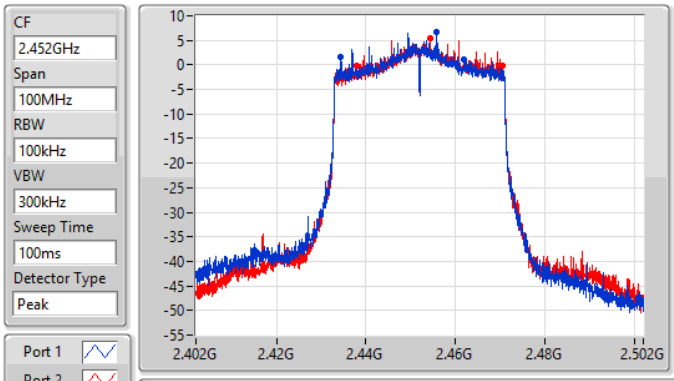


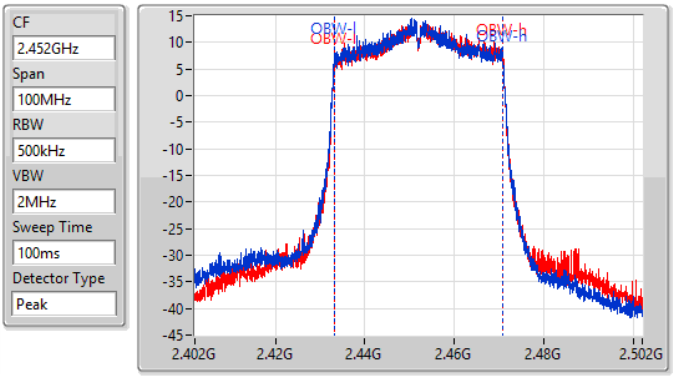
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.25M	2.41825G	2.4545G	37.581M	2.418209G	2.455791G	500k	1
30.8M	2.42205G	2.45285G	37.581M	2.418259G	2.455841G	500k	2

802.11ax HEW40_Nss1,(MCS0)_2TX EBW

2452MHz

28/04/2021





6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.45M	2.43445G	2.4619G	37.581M	2.433209G	2.470791G	500k	1
32.55M	2.43785G	2.4704G	37.531M	2.433309G	2.470841G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	26.15	0.41210
802.11g_Nss1,(6Mbps)_2TX	25.48	0.35318
802.11ax HEW20_Nss1,(MCS0)_2TX	24.77	0.29992
802.11ax HEW40_Nss1,(MCS0)_2TX	22.28	0.16904

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.00	22.42	21.84	25.15	30.00
2437MHz	Pass	2.00	22.67	23.57	26.15	30.00
2462MHz	Pass	2.00	21.50	22.34	24.95	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.00	20.34	19.69	23.04	30.00
2437MHz	Pass	2.00	22.33	22.60	25.48	30.00
2462MHz	Pass	2.00	19.88	20.33	23.12	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.00	19.83	19.34	22.60	30.00
2437MHz	Pass	2.00	21.68	21.83	24.77	30.00
2462MHz	Pass	2.00	19.57	19.82	22.71	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.00	19.18	19.09	22.15	30.00
2437MHz	Pass	2.00	19.28	19.25	22.28	30.00
2452MHz	Pass	2.00	19.15	19.17	22.17	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	0.41
802.11g_Nss1,(6Mbps)_2TX	-1.95
802.11ax HEW20_Nss1,(MCS0)_2TX	-1.23
802.11ax HEW40_Nss1,(MCS0)_2TX	-6.74

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

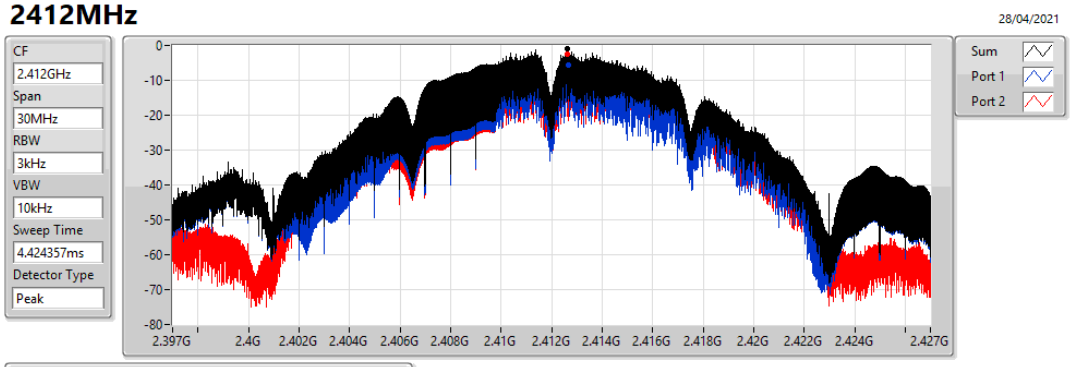
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.00	-5.48	-2.42	-0.94	8.00
2437MHz	Pass	2.00	-2.12	-2.76	0.41	8.00
2462MHz	Pass	2.00	-6.03	-5.28	-2.63	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.00	-4.80	-6.42	-3.22	8.00
2437MHz	Pass	2.00	-4.39	-4.33	-1.95	8.00
2462MHz	Pass	2.00	-6.59	-6.29	-3.62	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.00	-6.04	-5.87	-4.62	8.00
2437MHz	Pass	2.00	-2.08	-3.32	-1.23	8.00
2462MHz	Pass	2.00	-5.82	-4.47	-3.47	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.00	-9.05	-9.18	-6.88	8.00
2437MHz	Pass	2.00	-8.44	-9.22	-6.83	8.00
2452MHz	Pass	2.00	-8.86	-7.93	-6.74	8.00

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

802.11b_Nss1,(1Mbps)_2TX PSD

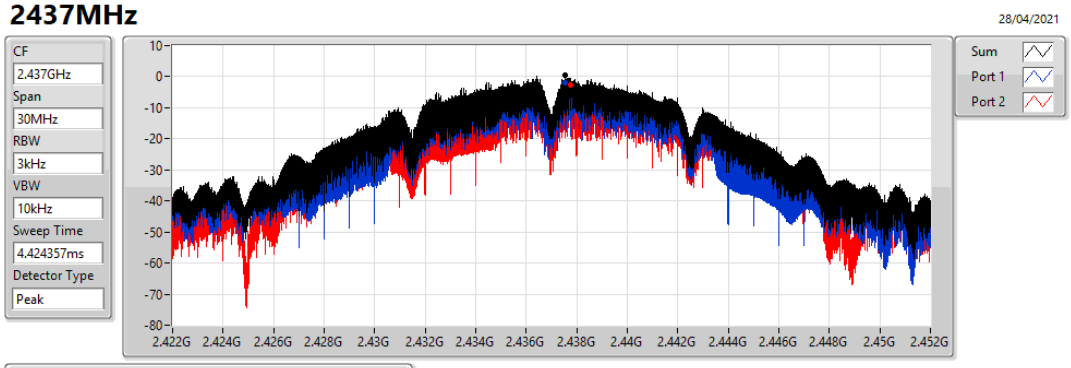
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.94	-0.94	-5.48	-2.42

802.11b_Nss1,(1Mbps)_2TX PSD

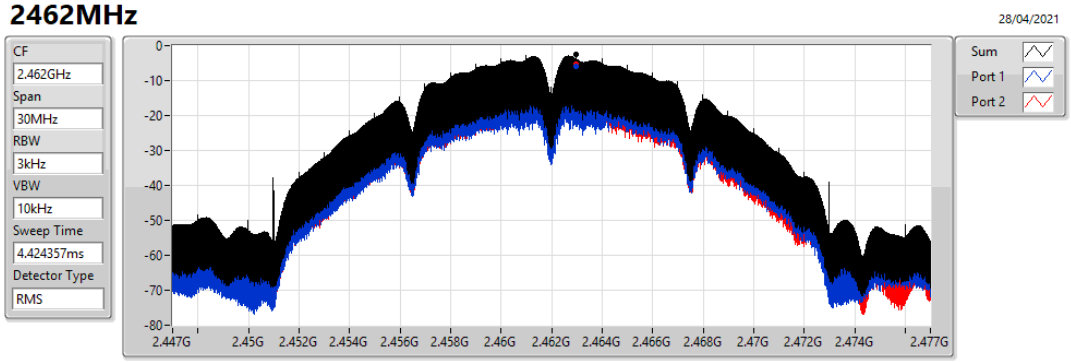
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.41	0.41	-2.12	-2.76

802.11b_Nss1,(1Mbps)_2TX PSD

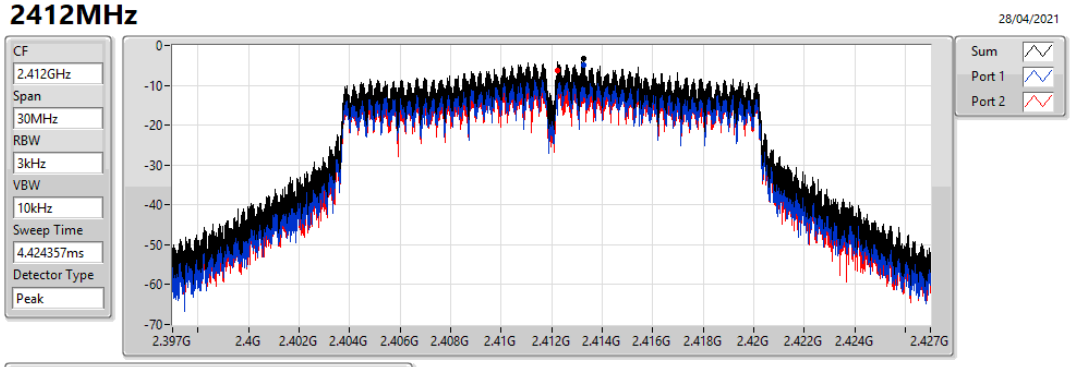
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.63	-2.63	-6.03	-5.28

802.11g_Nss1,(6Mbps)_2TX PSD

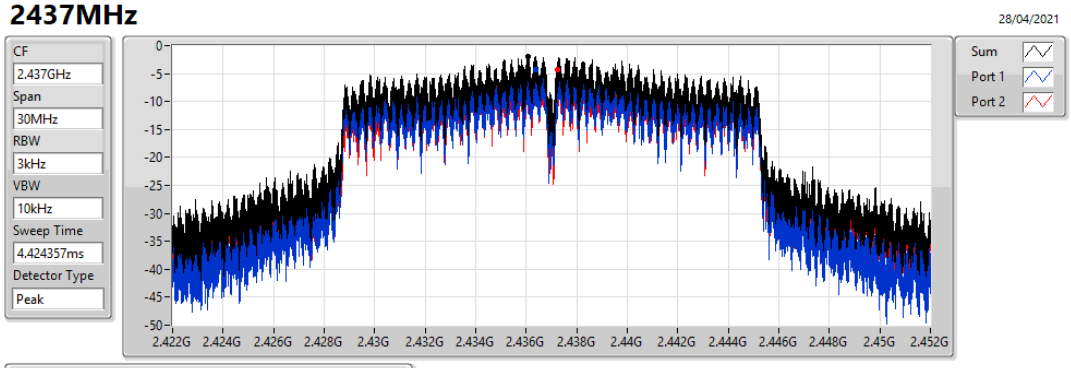
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.22	-3.22	-4.80	-6.42

802.11g_Nss1,(6Mbps)_2TX PSD

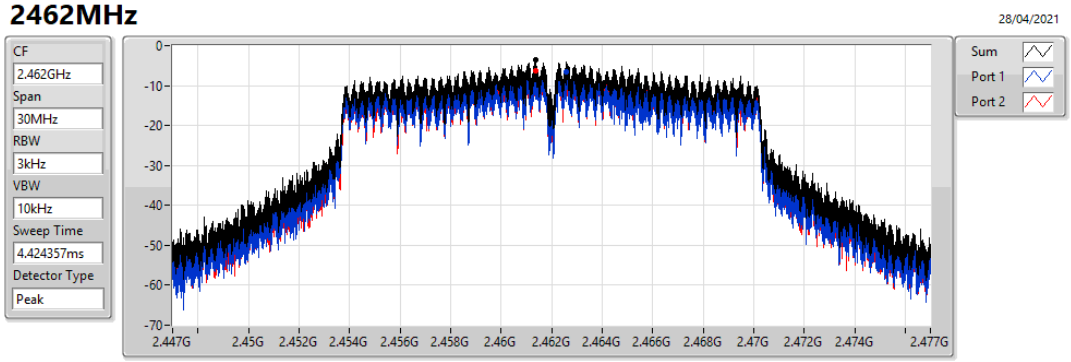
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.95	-1.95	-4.39	-4.33

802.11g_Nss1,(6Mbps)_2TX PSD

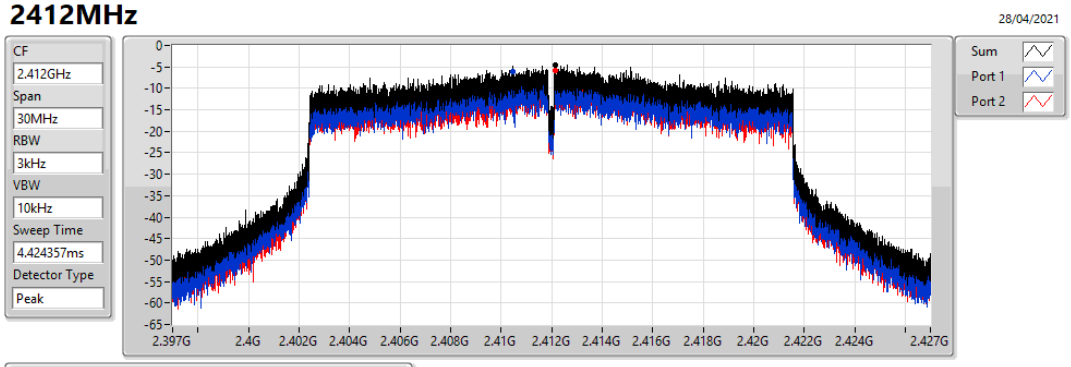
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.62	-3.62	-6.59	-6.29

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

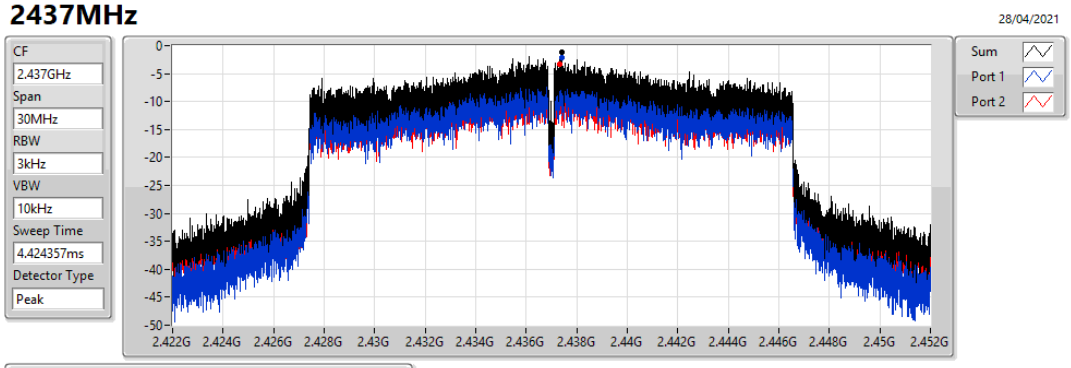
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.62	-4.62	-6.04	-5.87

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

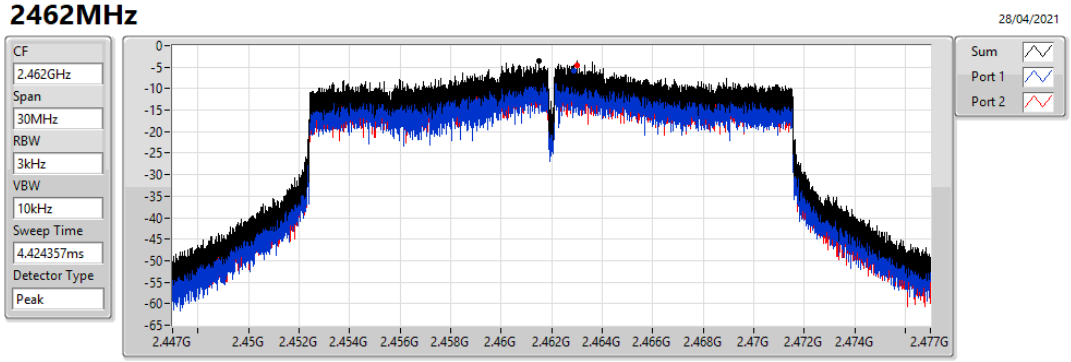
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.23	-1.23	-2.08	-3.32

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

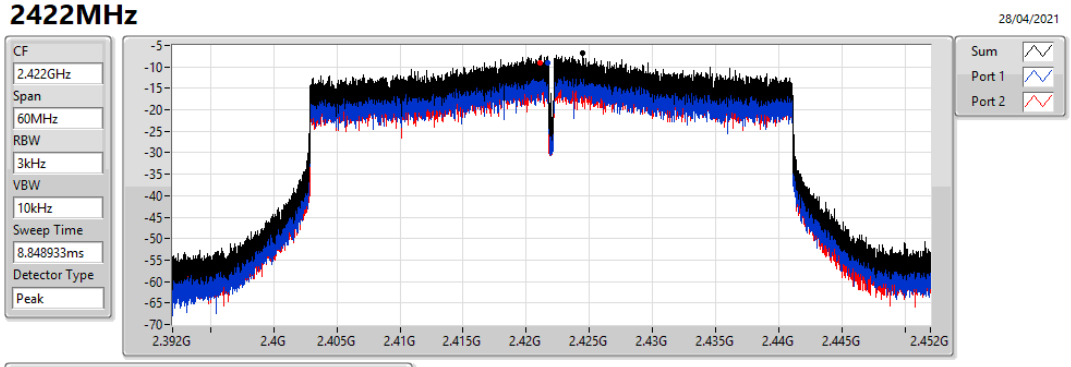
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.47	-3.47	-5.82	-4.47

802.11ax HEW40_Nss1,(MCS0)_2TX PSD

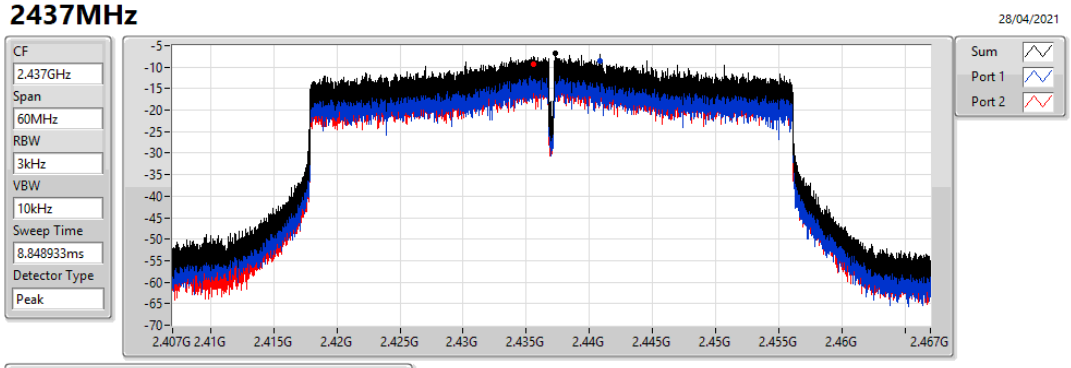
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.88	-6.88	-9.05	-9.18

802.11ax HEW40_Nss1,(MCS0)_2TX PSD

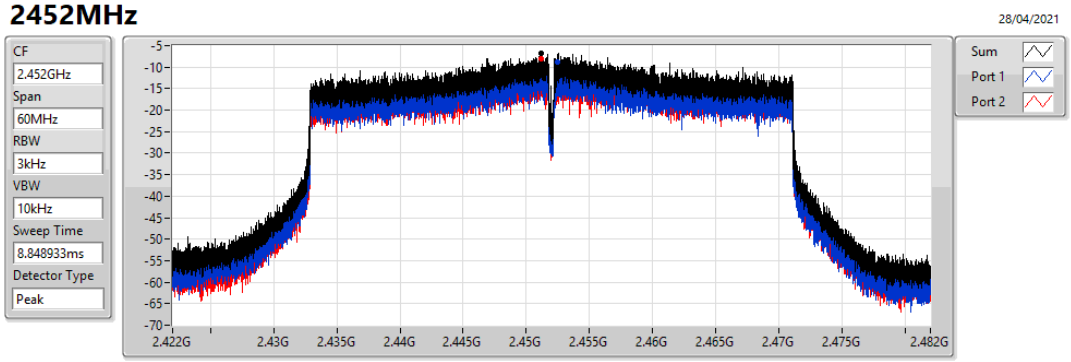
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.83	-6.83	-8.44	-9.22

802.11ax HEW40_Nss1,(MCS0)_2TX PSD

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.74	-6.74	-8.86	-7.93

Summary

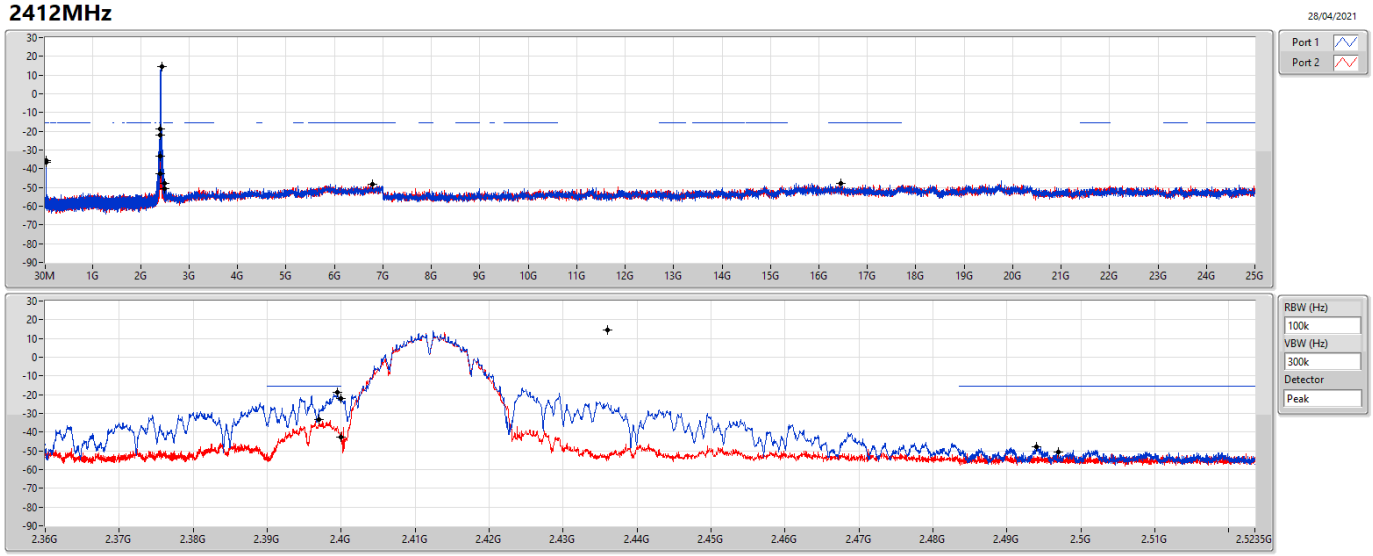
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43599G	14.70	-15.30	47.77M	-35.73	2.3995G	-18.90	2.4G	-21.84	2.49398G	-47.70	16.45612G	-47.77	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43574G	14.09	-15.91	47.77M	-35.02	2.39956G	-28.06	2.4G	-28.74	2.49406G	-51.24	5.74888G	-47.92	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.43828G	12.92	-17.08	47.77M	-35.86	2.3999G	-25.35	2.4G	-27.81	2.48378G	-50.80	6.9907G	-47.38	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.442G	6.78	-23.22	47.75M	-35.65	2.39996G	-29.37	2.4G	-31.84	2.48702G	-47.40	5.80277G	-47.48	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43599G	14.70	-15.30	47.77M	-35.73	2.3995G	-18.90	2.4G	-21.84	2.49398G	-47.70	16.45612G	-47.77	1
2412MHz	Pass	2.43599G	14.70	-15.30	48.06M	-36.35	2.39698G	-33.49	2.4G	-42.64	2.49696G	-50.80	6.79123G	-48.47	2
2437MHz	Pass	2.43599G	14.70	-15.30	47.77M	-35.67	2.3995G	-23.20	2.4835G	-24.68	2.48448G	-24.53	2.52631G	-37.91	1
2437MHz	Pass	2.43599G	14.70	-15.30	47.77M	-36.86	2.39898G	-39.25	2.4G	-43.14	2.495G	-43.70	17.68109G	-48.06	2
2462MHz	Pass	2.43599G	14.70	-15.30	47.48M	-35.66	2.39962G	-52.27	2.4835G	-48.04	2.48898G	-47.18	6.02702G	-47.77	1
2462MHz	Pass	2.43599G	14.70	-15.30	47.77M	-36.43	2.3989G	-51.02	2.4835G	-45.33	2.4875G	-43.82	16.45893G	-48.11	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	14.09	-15.91	47.77M	-35.02	2.39956G	-28.06	2.4G	-28.74	2.49406G	-51.24	5.74888G	-47.92	1
2412MHz	Pass	2.43574G	14.09	-15.91	47.48M	-36.10	2.3999G	-28.09	2.4G	-28.09	2.48604G	-50.86	6.98509G	-47.87	2
2437MHz	Pass	2.43574G	14.09	-15.91	47.77M	-35.26	2.39918G	-45.01	2.4G	-48.28	2.48858G	-48.04	6.98228G	-47.87	1
2437MHz	Pass	2.43574G	14.09	-15.91	47.77M	-36.31	2.3995G	-35.02	2.4G	-39.08	2.4845G	-41.16	16.97589G	-48.02	2
2462MHz	Pass	2.43574G	14.09	-15.91	47.77M	-35.56	2.39702G	-51.13	2.4835G	-44.71	2.48386G	-40.38	5.76574G	-47.55	1
2462MHz	Pass	2.43574G	14.09	-15.91	47.77M	-36.71	2.39228G	-51.02	2.4835G	-42.20	2.48416G	-41.50	5.99331G	-48.26	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43828G	12.92	-17.08	47.77M	-35.86	2.3999G	-25.35	2.4G	-27.81	2.48378G	-50.80	6.9907G	-47.38	1
2412MHz	Pass	2.43828G	12.92	-17.08	47.77M	-36.60	2.3998G	-26.47	2.4G	-28.18	2.48474G	-51.08	5.88093G	-47.95	2
2437MHz	Pass	2.43828G	12.92	-17.08	47.77M	-35.09	2.3998G	-47.21	2.4G	-48.47	2.4882G	-49.94	23.45474G	-47.40	1
2437MHz	Pass	2.43828G	12.92	-17.08	47.77M	-36.42	2.39964G	-38.34	2.4G	-38.50	2.4846G	-44.56	6.51589G	-47.88	2
2462MHz	Pass	2.43828G	12.92	-17.08	47.77M	-36.06	2.39896G	-50.36	2.4835G	-41.58	2.4843G	-39.59	5.82193G	-46.97	1
2462MHz	Pass	2.43828G	12.92	-17.08	47.77M	-36.51	2.39838G	-50.93	2.4835G	-39.97	2.48382G	-38.43	6.62546G	-48.29	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.442G	6.78	-23.22	47.75M	-35.65	2.39996G	-29.37	2.4G	-31.84	2.48702G	-47.40	5.80277G	-47.48	1
2422MHz	Pass	2.442G	6.78	-23.22	47.75M	-36.86	2.39976G	-30.45	2.4G	-31.25	2.49074G	-48.78	6.63853G	-48.07	2
2437MHz	Pass	2.442G	6.78	-23.22	47.75M	-35.95	2.39892G	-36.96	2.4G	-39.49	2.5145G	-44.38	17.19771G	-48.12	1
2437MHz	Pass	2.442G	6.78	-23.22	47.75M	-36.72	2.39876G	-39.98	2.4G	-42.91	2.48382G	-45.01	6.72547G	-47.32	2
2452MHz	Pass	2.442G	6.78	-23.22	47.75M	-35.44	2.3998G	-41.44	2.4G	-42.52	2.48354G	-40.20	17.67448G	-47.81	1
2452MHz	Pass	2.442G	6.78	-23.22	47.75M	-36.96	2.3946G	-43.84	2.4835G	-40.66	2.48426G	-38.29	5.96263G	-47.41	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

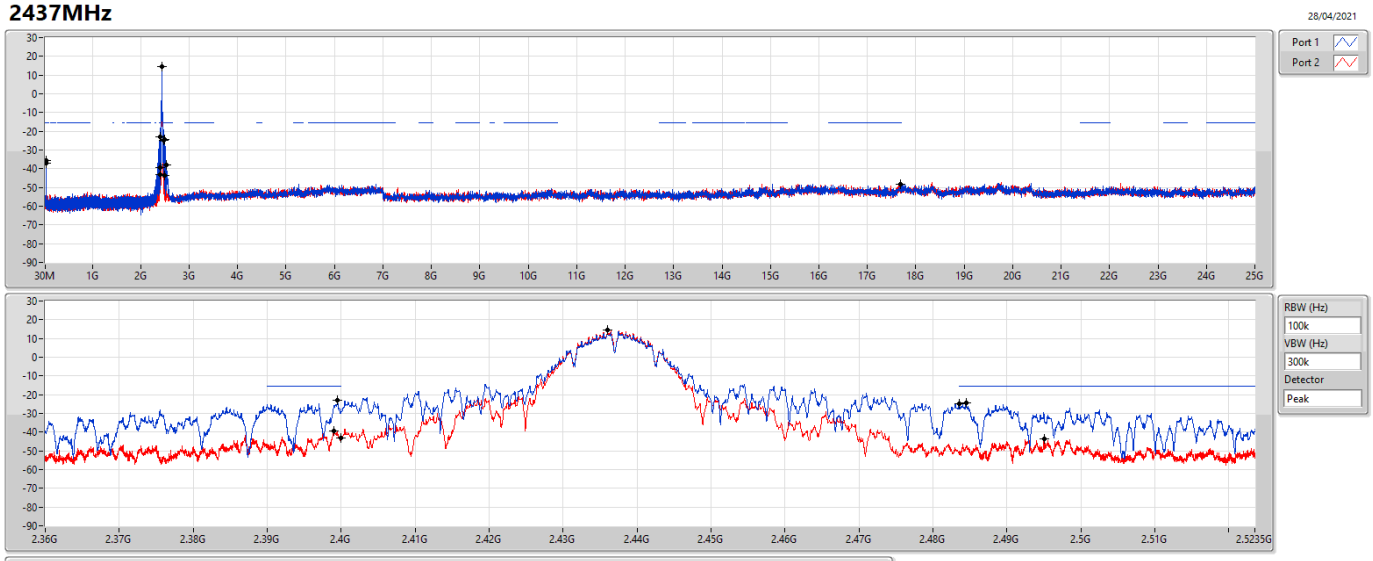
2412MHz



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
2.43599G	14.70	-15.30	47.77M	-35.73	2.3995G	-18.90	2.4G	-21.84	2.49398G	-47.70	16.45612G	-47.77	1
2.43599G	14.70	-15.30	48.06M	-36.35	2.39698G	-33.49	2.4G	-42.64	2.49696G	-50.80	6.79123G	-48.47	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

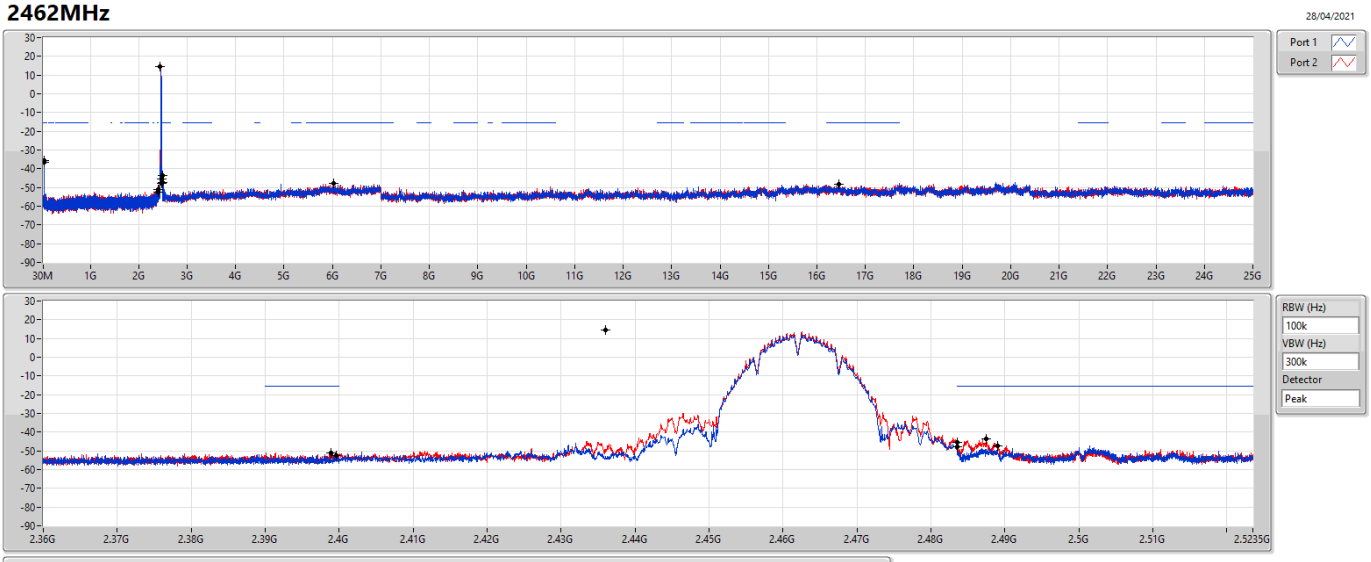
2437MHz



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
2.43599G	14.70	-15.30	47.77M	-35.67	2.3995G	-23.20	2.4835G	-24.68	2.48448G	-24.53	2.52631G	-37.91	1
2.43599G	14.70	-15.30	47.77M	-36.86	2.39898G	-39.25	2.4G	-43.14	2.495G	-43.70	17.68109G	-48.06	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

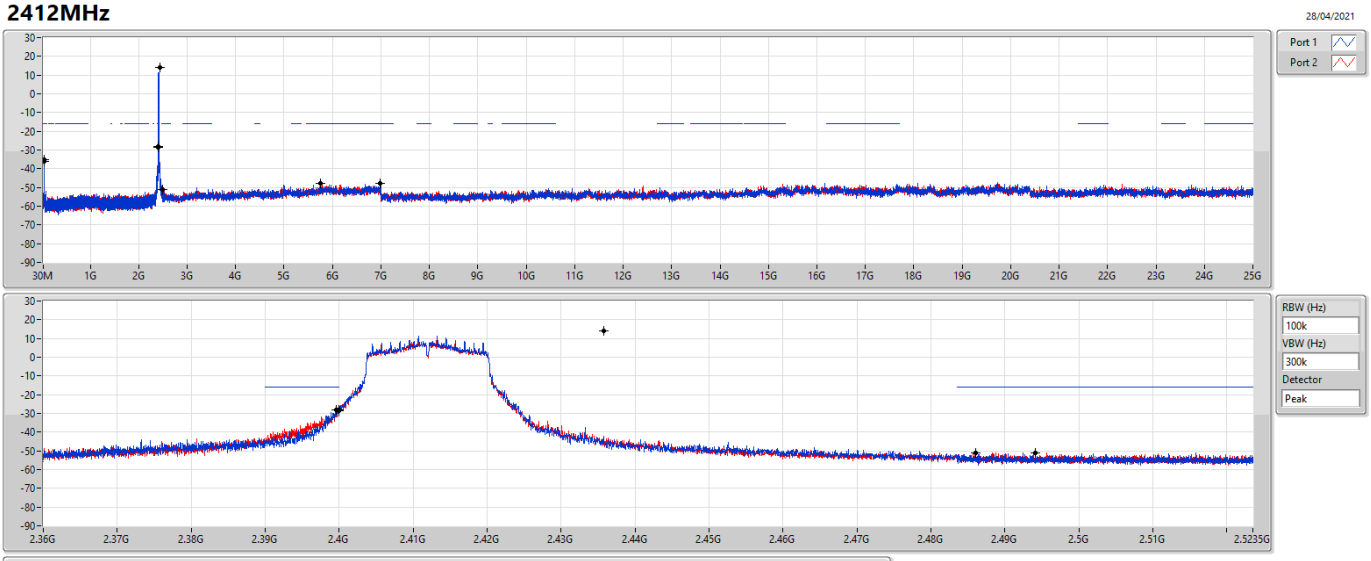
2462MHz



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
2.43599G	14.70	-15.30	47.48M	-35.66	2.39962G	-52.27	2.4835G	-48.04	2.48898G	-47.18	6.02702G	-47.77	1
2.43599G	14.70	-15.30	47.77M	-36.43	2.3989G	-51.02	2.4835G	-45.33	2.4875G	-43.82	16.45893G	-48.11	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

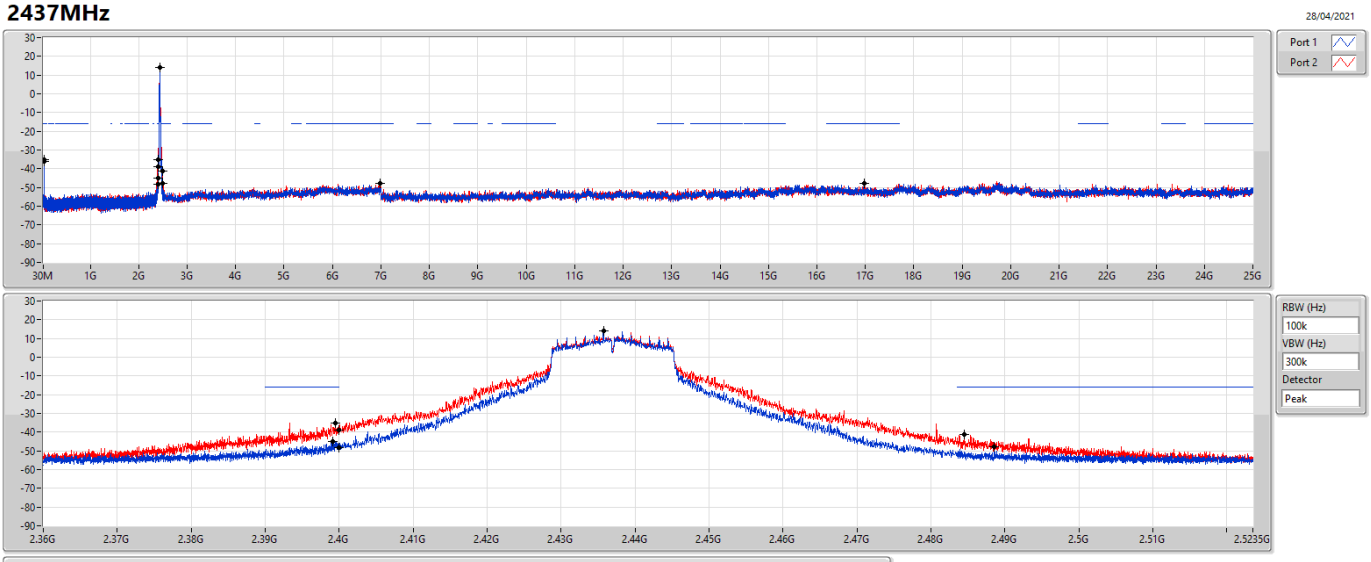
2412MHz



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
2.43574G	14.09	-15.91	47.77M	-35.02	2.39956G	-28.06	2.4G	-28.74	2.49406G	-51.24	5.74888G	-47.92	1
2.43574G	14.09	-15.91	47.48M	-36.10	2.3999G	-28.09	2.4G	-28.09	2.48604G	-50.86	6.98509G	-47.87	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

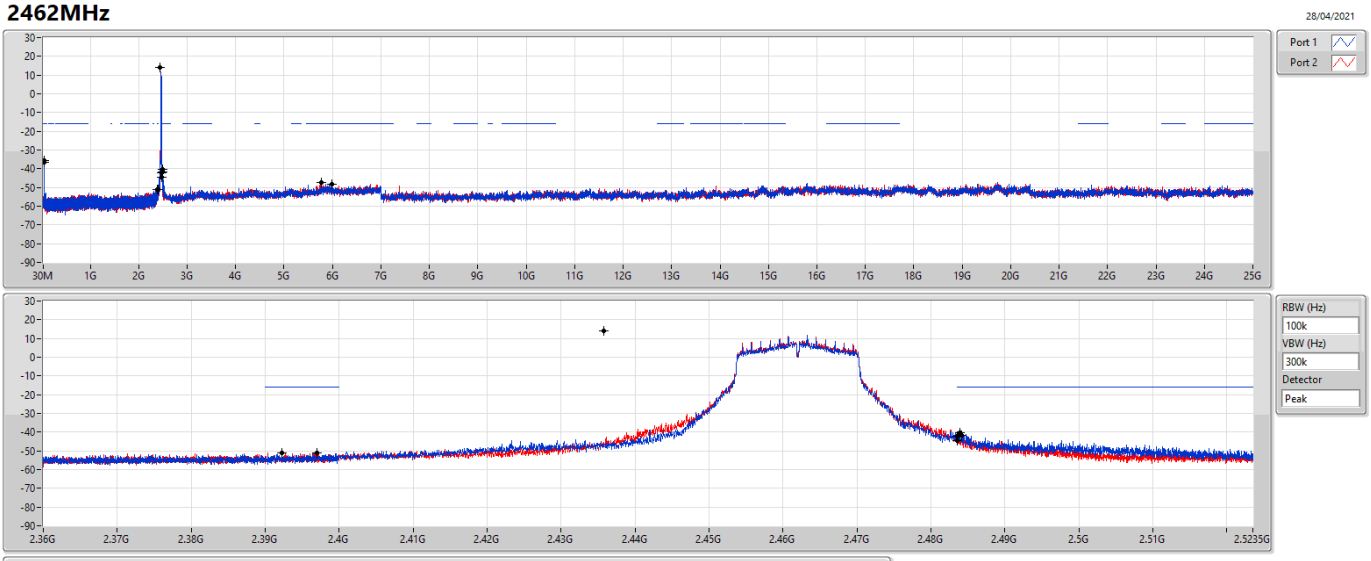
2437MHz



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
2.43574G	14.09	-15.91	47.77M	-35.26	2.39918G	-45.01	2.4G	-48.28	2.48858G	-48.04	6.98228G	-47.87	1
2.43574G	14.09	-15.91	47.77M	-36.31	2.3995G	-35.02	2.4G	-39.08	2.4845G	-41.16	16.97589G	-48.02	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

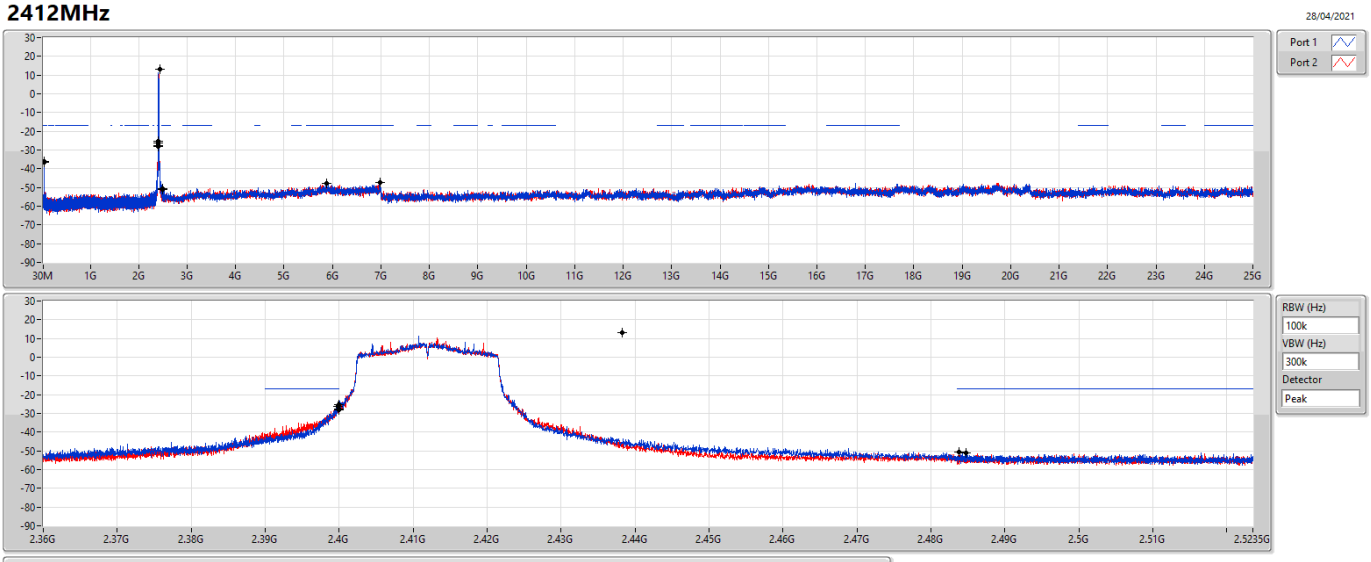
2462MHz



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
2.43574G	14.09	-15.91	47.77M	-35.56	2.39702G	-51.13	2.4835G	-44.71	2.48386G	-40.38	5.76574G	-47.55	1
2.43574G	14.09	-15.91	47.77M	-36.71	2.39228G	-51.02	2.4835G	-42.20	2.48416G	-41.50	5.99331G	-48.26	2

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE NdB**

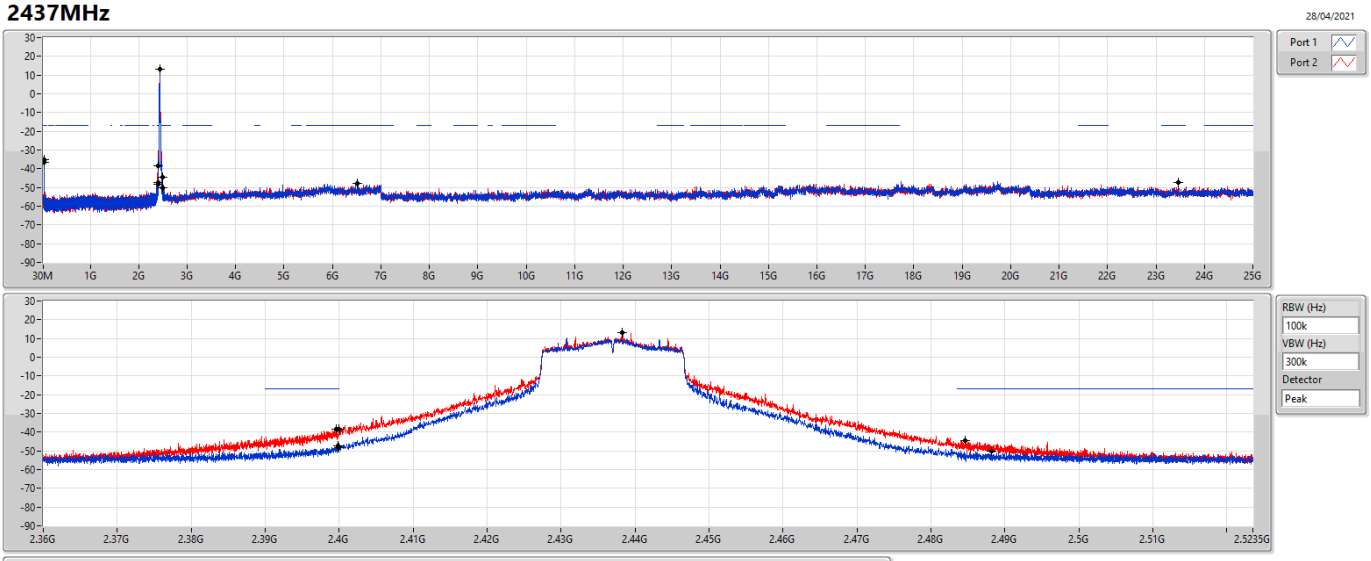
2412MHz



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
2.43828G	12.92	-17.08	47.77M	-35.86	2.3999G	-25.35	2.4G	-27.81	2.48378G	-50.80	6.9907G	-47.38	1
2.43828G	12.92	-17.08	47.77M	-36.60	2.3998G	-26.47	2.4G	-28.18	2.48474G	-51.08	5.88093G	-47.95	2

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE NdB**

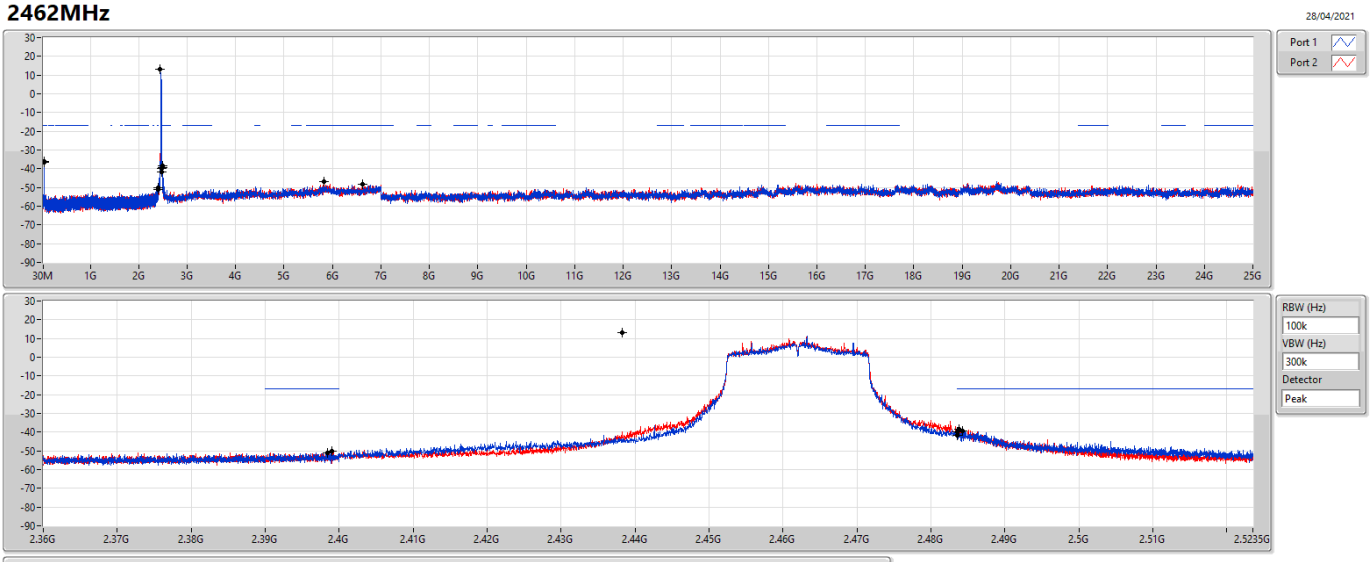
2437MHz



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
2.43828G	12.92	-17.08	47.77M	-35.09	2.3998G	-47.21	2.4G	-48.47	2.4882G	-49.94	23.45474G	-47.40	1
2.43828G	12.92	-17.08	47.77M	-36.42	2.39964G	-38.34	2.4G	-38.50	2.4846G	-44.56	6.51589G	-47.88	2

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE NdB**

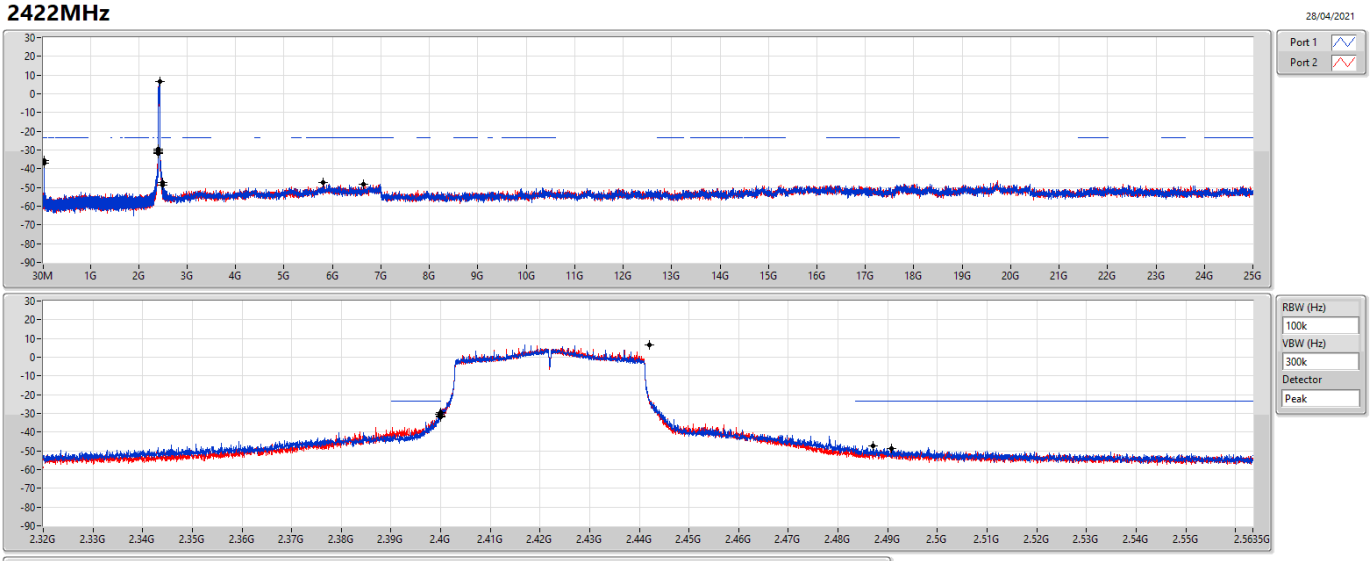
2462MHz



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
2.43828G	12.92	-17.08	47.77M	-36.06	2.39896G	-50.36	2.4835G	-41.58	2.4843G	-39.59	5.82193G	-46.97	1
2.43828G	12.92	-17.08	47.77M	-36.51	2.39838G	-50.93	2.4835G	-39.97	2.48382G	-38.43	6.62546G	-48.29	2

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE NdB**

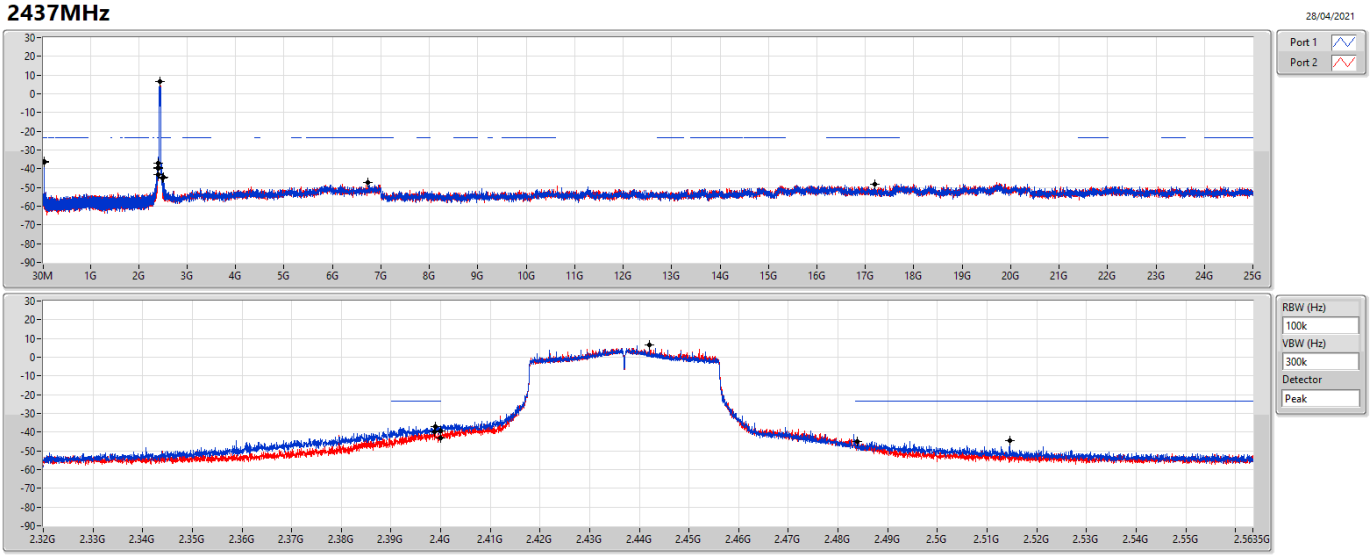
2422MHz



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
2.442G	6.78	-23.22	47.75M	-35.65	2.39996G	-29.37	2.4G	-31.84	2.48702G	-47.40	5.80277G	-47.48	1
2.442G	6.78	-23.22	47.75M	-36.86	2.39976G	-30.45	2.4G	-31.25	2.490074G	-48.78	6.63853G	-48.07	2

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE NdB**

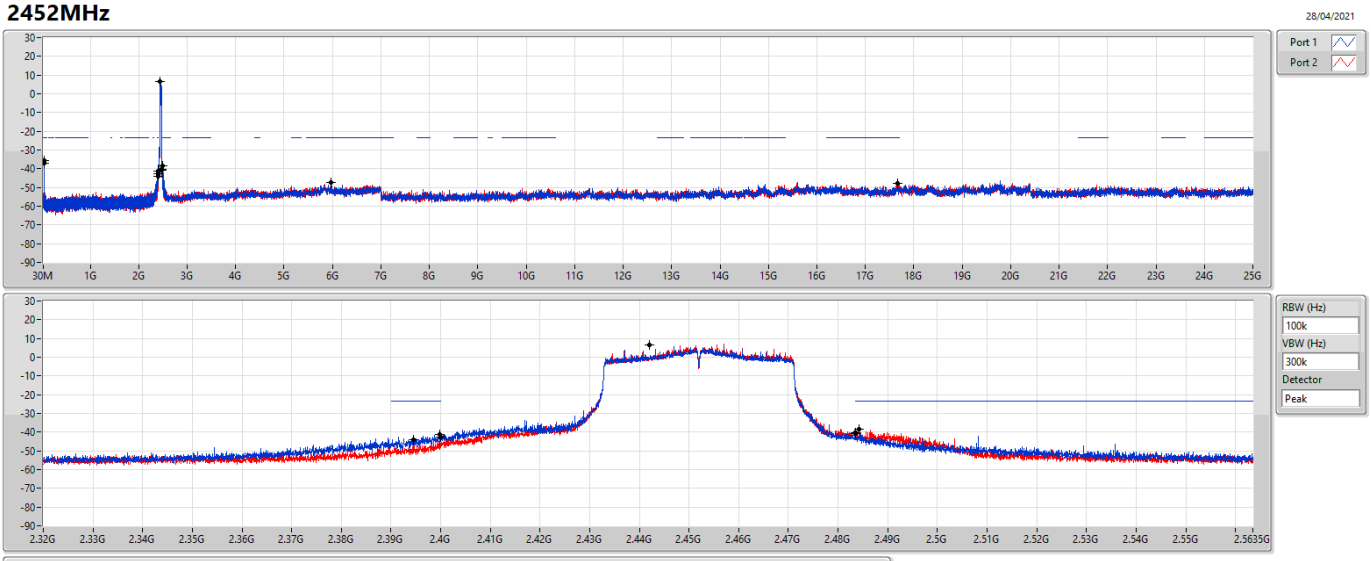
2437MHz



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
2.442G	6.78	-23.22	47.75M	-35.95	2.39892G	-36.96	2.4G	-39.49	2.5145G	-44.38	17.19771G	-48.12	1
2.442G	6.78	-23.22	47.75M	-36.72	2.39876G	-39.98	2.4G	-42.91	2.48382G	-45.01	6.72547G	-47.32	2

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE NdB**

2452MHz

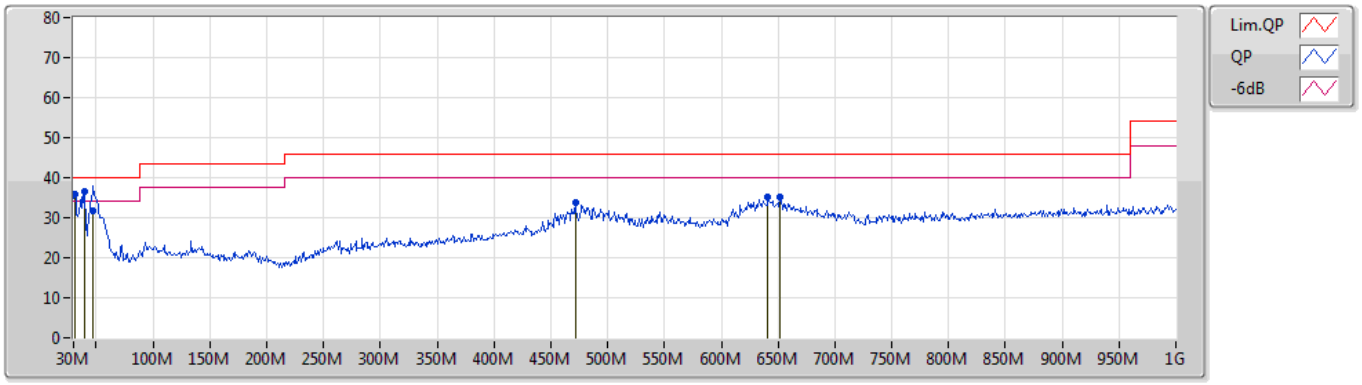


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	6.78	-23.22	47.75M	-35.44	2.3998G	-41.44	2.4G	-42.52	2.48354G	-40.20	17.67448G	-47.81	1
2.442G	6.78	-23.22	47.75M	-36.96	2.3946G	-43.84	2.4835G	-40.66	2.48426G	-38.29	5.96263G	-47.41	2

Summary

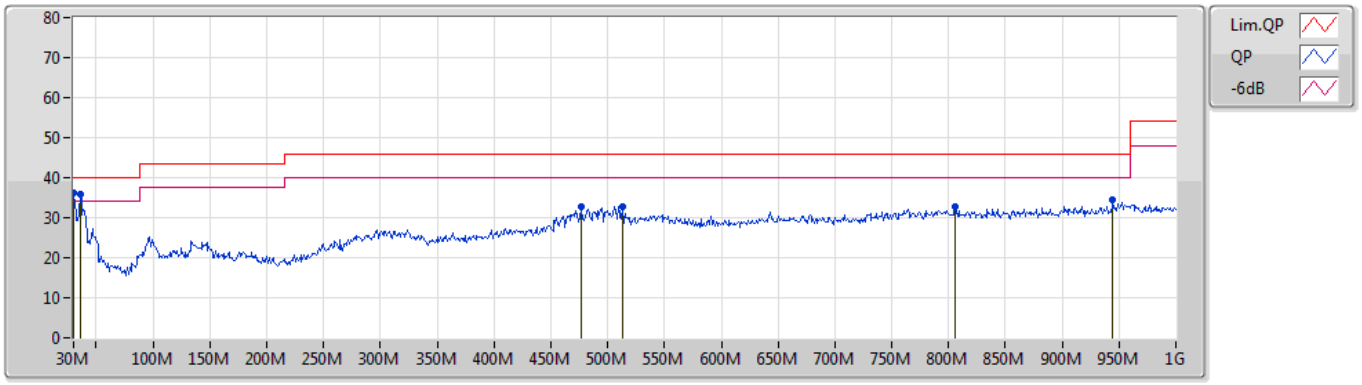
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	39.7M	36.62	40.00	-3.38	Vertical

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/m)	(dB/m)	(dB)	(dB)
PK	30.97M	35.89	40.00	-4.11	-4.89	3	Vertical	124	1.25	-	40.78	23.40	0.20	28.49
PK	39.7M	36.62	40.00	-3.38	-8.92	3	Vertical	244	1.50	"Worst"	45.54	19.27	0.29	28.48
QP	47.46M	31.79	40.00	-8.21	-12.95	3	Vertical	311	2.00	-	44.74	15.13	0.40	28.48
PK	471.35M	33.92	46.00	-12.08	-4.07	3	Vertical	154	1.00	-	37.99	22.62	2.39	29.08
PK	641.1M	35.06	46.00	-10.94	-2.06	3	Vertical	165	1.25	-	37.12	24.42	2.86	29.34
PK	651.77M	35.17	46.00	-10.83	-2.01	3	Vertical	187	2.00	-	37.18	24.44	2.90	29.35

Mode 1

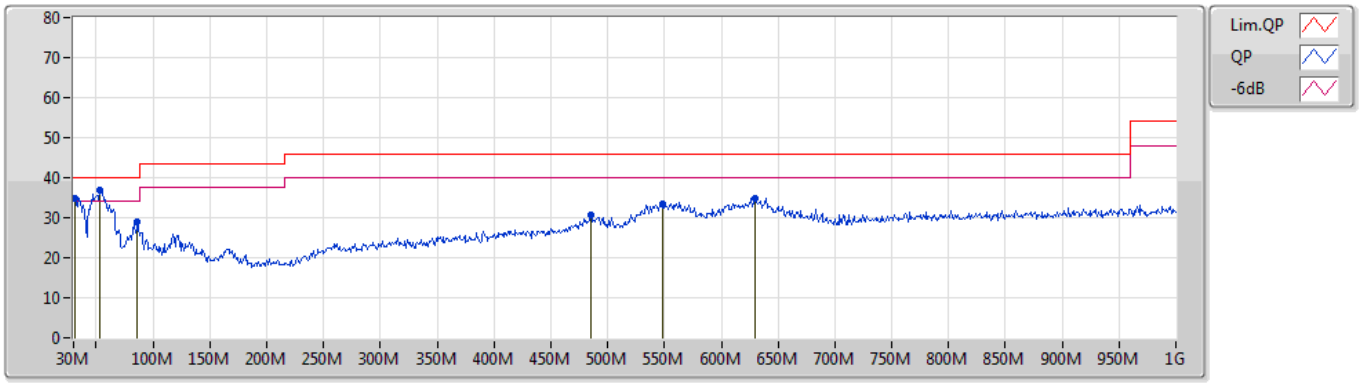


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	30M	36.23	40.00	-3.77	-4.62	3	Horizontal	115	1.25	"Worst"	40.85	23.67	0.20	28.49
PK	35.82M	35.82	40.00	-4.18	-7.06	3	Horizontal	180	1.50	-	42.88	21.20	0.22	28.48
PK	476.2M	32.64	46.00	-13.36	-4.03	3	Horizontal	92	1.00	-	36.67	22.66	2.40	29.09
PK	513.06M	32.84	46.00	-13.16	-3.83	3	Horizontal	22	1.00	-	36.67	22.88	2.53	29.24
PK	806M	32.73	46.00	-13.27	-0.65	3	Horizontal	245	2.00	-	33.38	25.17	3.22	29.04
PK	944.71M	34.46	46.00	-11.54	0.76	3	Horizontal	185	3.00	-	33.70	25.84	3.50	28.58

Summary

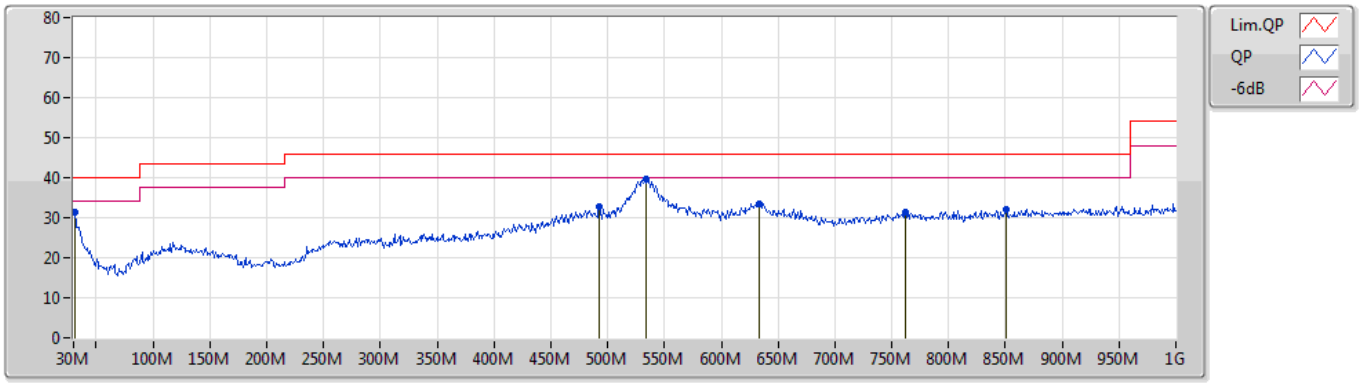
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	53.28M	36.92	40.00	-3.08	Vertical

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	30.97M	34.75	40.00	-5.25	-4.89	3	Vertical	189	1.00	-	39.64	23.40	0.20	28.49
PK	53.28M	36.92	40.00	-3.08	-15.23	3	Vertical	154	2.00	"Worst"	52.15	12.86	0.40	28.49
PK	86.26M	28.92	40.00	-11.08	-13.91	3	Vertical	178	1.00	-	42.83	13.86	0.70	28.47
PK	484.93M	30.59	46.00	-15.41	-3.97	3	Vertical	251	1.00	-	34.56	22.72	2.44	29.13
PK	548.95M	33.42	46.00	-12.58	-2.05	3	Vertical	9	1.25	-	35.47	24.73	2.60	29.38
PK	629.46M	34.69	46.00	-11.31	-2.07	3	Vertical	314	1.00	-	36.76	24.45	2.82	29.34

Mode 2



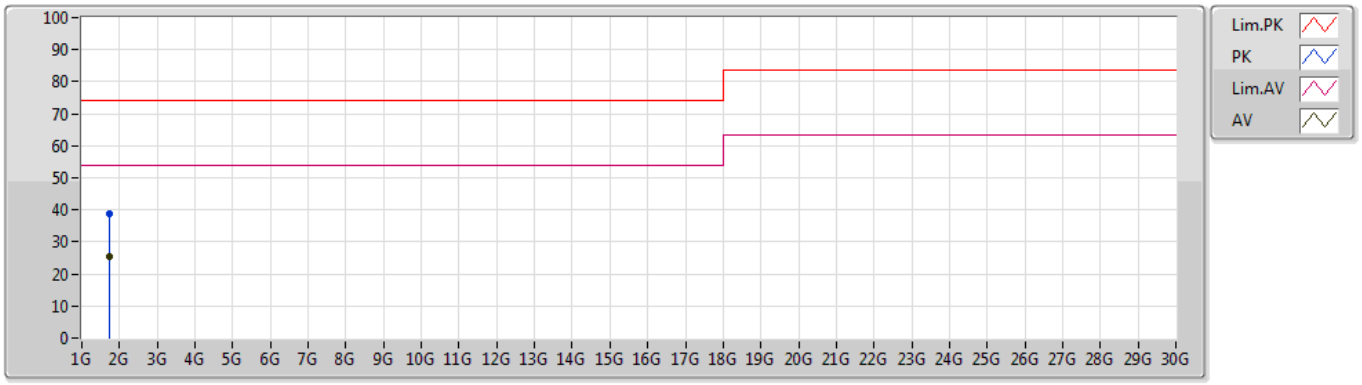
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	30.97M	31.49	40.00	-8.51	-4.89	3	Horizontal	2	1.25	-	36.38	23.40	0.20	28.49
PK	492.69M	32.62	46.00	-13.38	-4.01	3	Horizontal	154	1.00	-	36.63	22.68	2.47	29.16
PK	534.4M	39.55	46.00	-6.45	-2.98	3	Horizontal	18	2.00	"Worst"	42.53	23.77	2.57	29.32
PK	633.34M	33.31	46.00	-12.69	-2.04	3	Horizontal	301	1.00	-	35.35	24.47	2.83	29.34
PK	762.35M	31.32	46.00	-14.68	-0.82	3	Horizontal	124	1.50	-	32.14	25.11	3.20	29.13
PK	850.62M	32.05	46.00	-13.95	0.03	3	Horizontal	199	2.00	-	32.02	25.55	3.40	28.92

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.74876G	25.82	54.00	-28.18	Horizontal

Mode 1

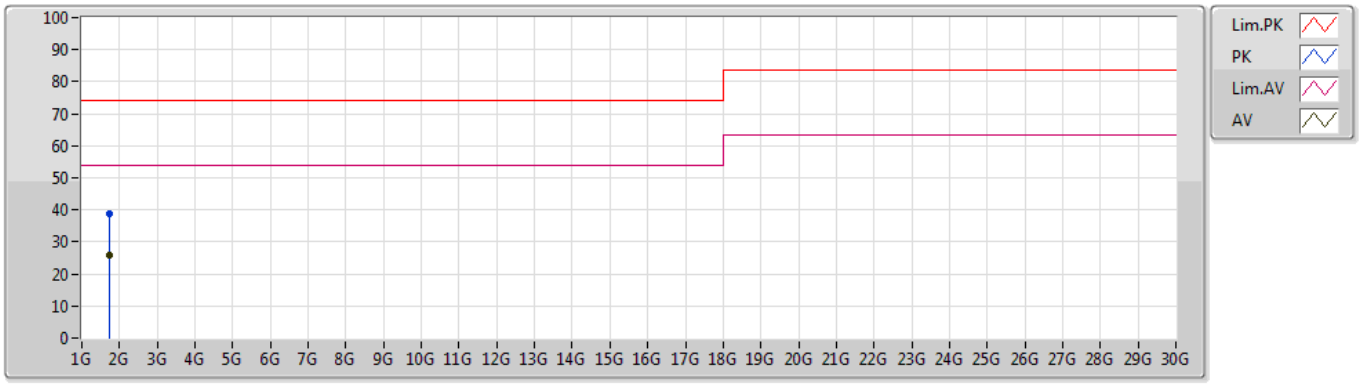
29/04/2021



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	1.749G	38.79	74.00	-35.21	-4.16	3	Vertical	254	1.21	-	42.95	26.60	3.85	34.61
AV	1.7485G	25.64	54.00	-28.36	-4.17	3	Vertical	254	1.21	"Worst"	29.81	26.59	3.85	34.61

Mode 1

29/04/2021



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	1.7486G	38.68	74.00	-35.32	-4.17	3	Horizontal	268	1.14	-	42.85	26.59	3.85	34.61
AV	1.74876G	25.82	54.00	-28.18	-4.16	3	Horizontal	268	1.14	"Worst"	29.98	26.60	3.85	34.61

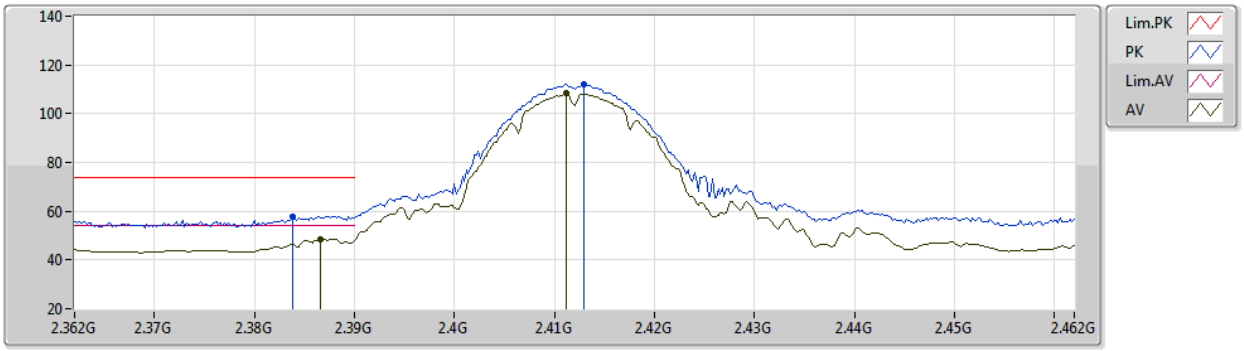
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	2.4836G	53.85	54.00	-0.15	3	Vertical	173	1.78	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

24/04/2021



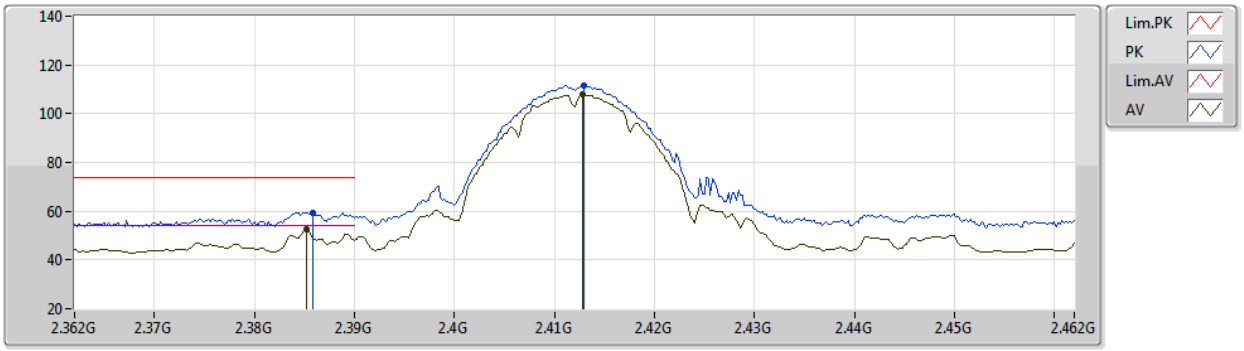
EUT Z_2TX
Setting 22
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3838G	57.97	74.00	-16.03	27.30	3	Vertical	173	1.71	-	27.47	3.20	-
AV	2.3866G	48.58	54.00	-5.42	17.91	3	Vertical	173	1.71	-	27.47	3.20	-
PK	2.413G	112.11	Inf	-Inf	81.37	3	Vertical	173	1.71	-	27.53	3.21	-
AV	2.4112G	108.20	Inf	-Inf	77.47	3	Vertical	173	1.71	-	27.52	3.21	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

24/04/2021



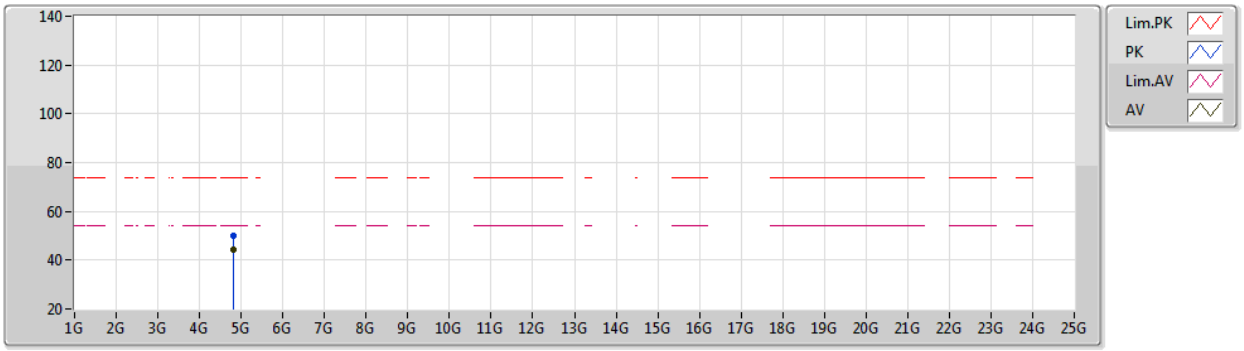
EUT Z_2TX
Setting 22
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3858G	59.44	74.00	-14.56	28.77	3	Horizontal	186	2.95	-	27.47	3.20	-
AV	2.3852G	52.56	54.00	-1.44	21.89	3	Horizontal	186	2.95	-	27.47	3.20	-
PK	2.413G	111.74	Inf	-Inf	81.00	3	Horizontal	186	2.95	-	27.53	3.21	-
AV	2.4128G	107.73	Inf	-Inf	76.99	3	Horizontal	186	2.95	-	27.53	3.21	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

24/04/2021



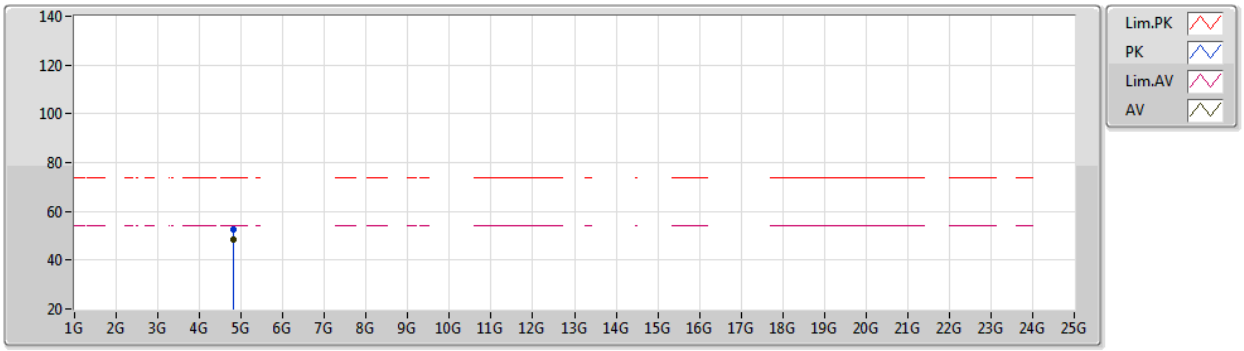
EUT X_2TX
Setting 22
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82408G	50.21	74.00	-23.79	45.14	3	Vertical	85	1.04	-	32.54	5.41	32.88
AV	4.82398G	44.43	54.00	-9.57	39.36	3	Vertical	85	1.04	-	32.54	5.41	32.88

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

24/04/2021



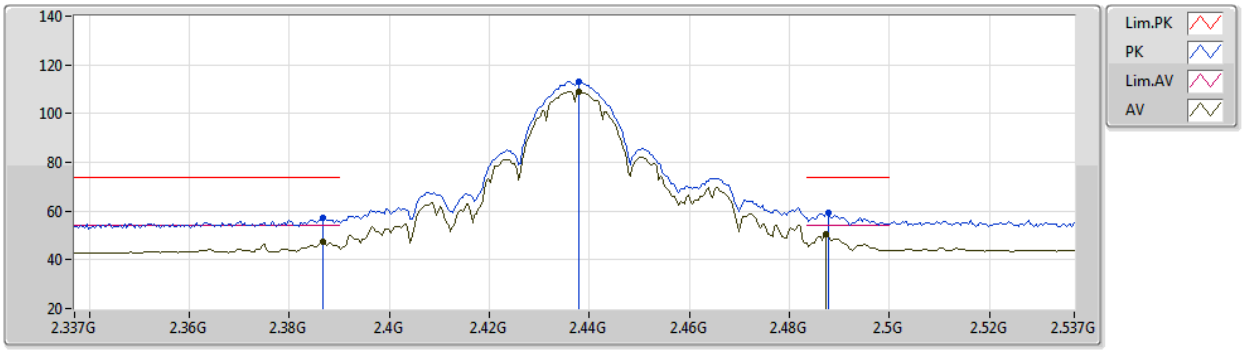
EUT X_2TX
Setting 22
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82398G	52.50	74.00	-21.50	47.43	3	Horizontal	21	1.00	-	32.54	5.41	32.88
AV	4.82396G	48.43	54.00	-5.57	43.36	3	Horizontal	21	1.00	-	32.54	5.41	32.88

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

24/04/2021



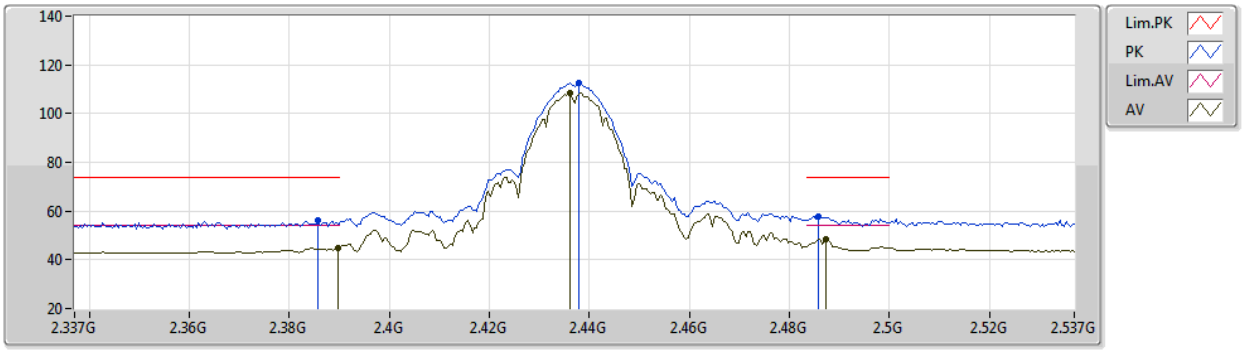
EUT Z_2TX
Setting 24
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3866G	57.36	74.00	-16.64	26.69	3	Vertical	131	1.03	-	27.47	3.20	-
AV	2.3866G	47.17	54.00	-6.83	16.50	3	Vertical	131	1.03	-	27.47	3.20	-
PK	2.4378G	113.11	Inf	-Inf	82.29	3	Vertical	131	1.03	-	27.58	3.24	-
AV	2.4378G	109.04	Inf	-Inf	78.22	3	Vertical	131	1.03	-	27.58	3.24	-
PK	2.4878G	59.15	74.00	-14.85	28.11	3	Vertical	131	1.03	-	27.75	3.29	-
AV	2.4874G	50.26	54.00	-3.74	19.22	3	Vertical	131	1.03	-	27.75	3.29	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

24/04/2021



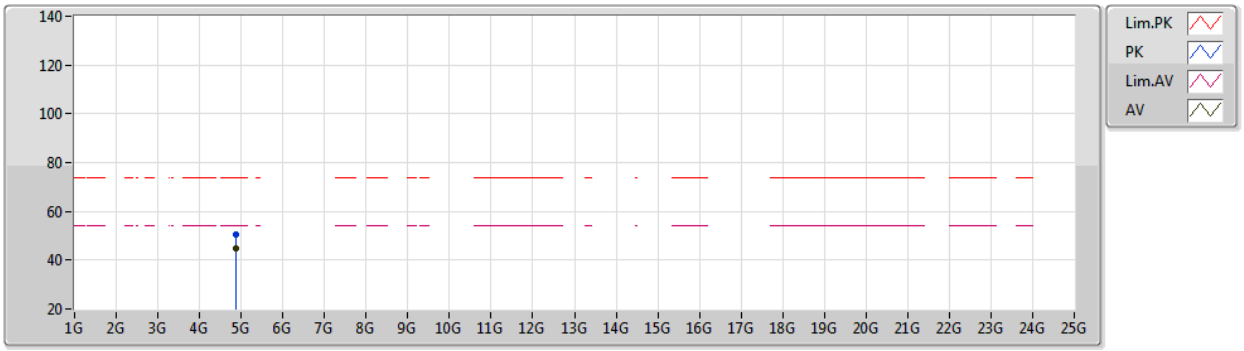
EUT Z_2TX
Setting 24
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3858G	56.30	74.00	-17.70	25.63	3	Horizontal	324	1.55	-	27.47	3.20	-
AV	2.3898G	44.96	54.00	-9.04	14.28	3	Horizontal	324	1.55	-	27.48	3.20	-
PK	2.4378G	112.53	Inf	-Inf	81.71	3	Horizontal	324	1.55	-	27.58	3.24	-
AV	2.4362G	108.64	Inf	-Inf	77.83	3	Horizontal	324	1.55	-	27.57	3.24	-
PK	2.4858G	57.64	74.00	-16.36	26.61	3	Horizontal	324	1.55	-	27.74	3.29	-
AV	2.4874G	48.27	54.00	-5.73	17.23	3	Horizontal	324	1.55	-	27.75	3.29	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

24/04/2021



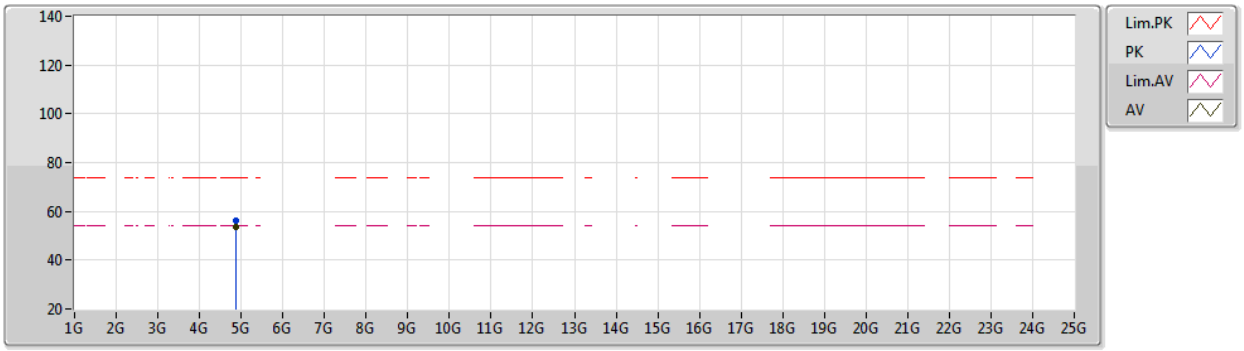
EUT X_2TX
Setting 24
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87384G	50.28	74.00	-23.72	44.96	3	Vertical	95	1.07	-	32.75	5.44	32.87
AV	4.87398G	44.73	54.00	-9.27	39.41	3	Vertical	95	1.07	-	32.75	5.44	32.87

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

24/04/2021



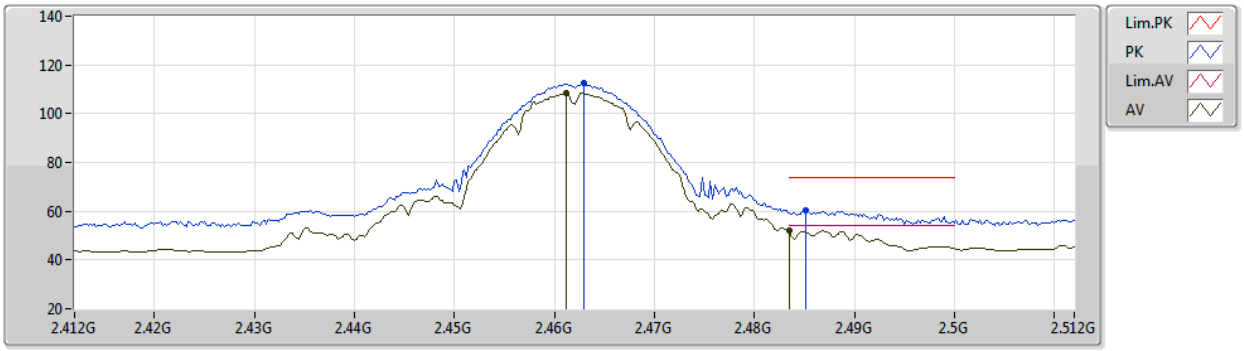
EUT X_2TX
Setting 24
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87402G	56.40	74.00	-17.60	51.08	3	Horizontal	324	1.00	-	32.75	5.44	32.87
AV	4.87396G	53.71	54.00	-0.29	48.39	3	Horizontal	324	1.00	-	32.75	5.44	32.87

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

24/04/2021



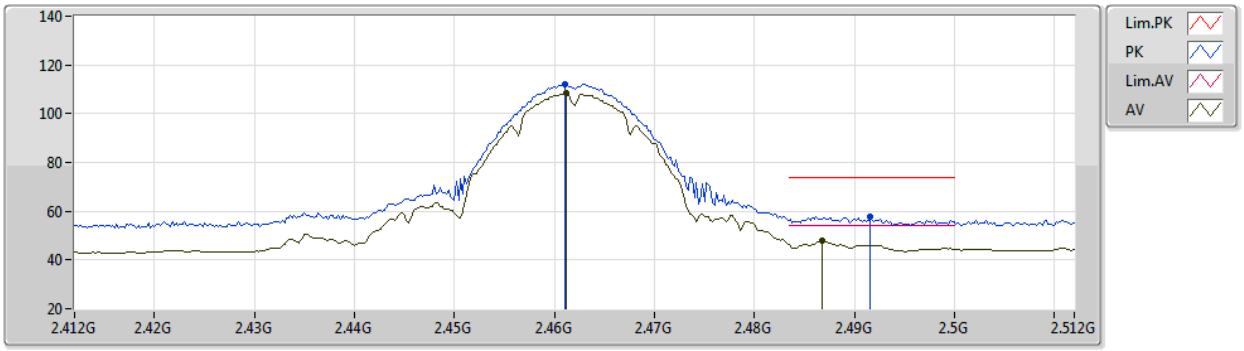
EUT Z_2TX
Setting 21.5
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.463G	112.42	Inf	-Inf	81.51	3	Vertical	172	1.80	-	27.65	3.26	-
AV	2.4612G	108.41	Inf	-Inf	77.51	3	Vertical	172	1.80	-	27.64	3.26	-
PK	2.4852G	60.26	74.00	-13.74	29.23	3	Vertical	172	1.80	-	27.74	3.29	-
AV	2.4835G	51.83	54.00	-2.17	20.82	3	Vertical	172	1.80	-	27.73	3.28	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

24/04/2021



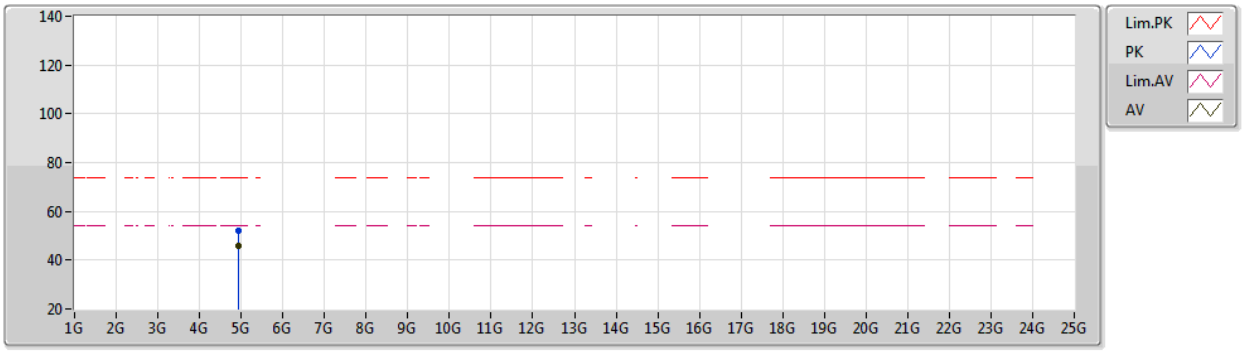
EUT Z_2TX
Setting 21.5
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.461G	112.17	Inf	-Inf	81.27	3	Horizontal	187	1.23	-	27.64	3.26	-
AV	2.4612G	108.33	Inf	-Inf	77.43	3	Horizontal	187	1.23	-	27.64	3.26	-
PK	2.4916G	57.69	74.00	-16.31	26.63	3	Horizontal	187	1.23	-	27.77	3.29	-
AV	2.4868G	47.70	54.00	-6.30	16.66	3	Horizontal	187	1.23	-	27.75	3.29	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

24/04/2021



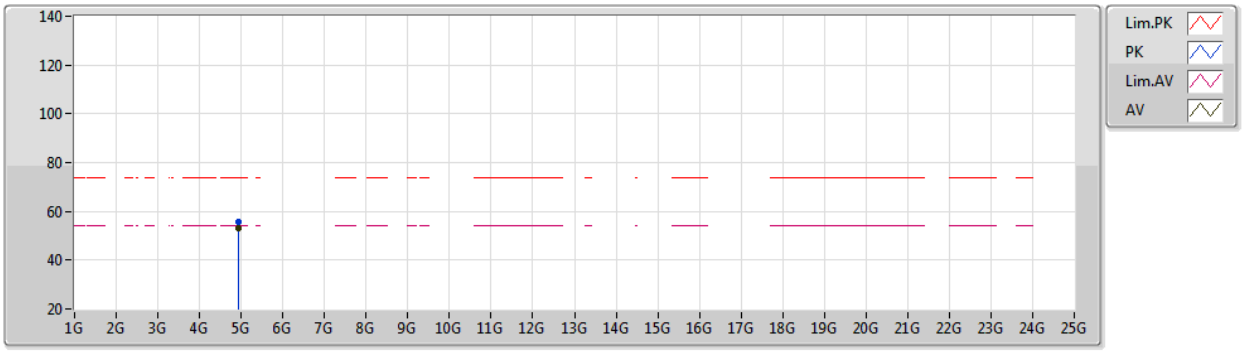
EUT X_2TX
Setting 21.5
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9239G	51.94	74.00	-22.06	46.44	3	Vertical	78	1.10	-	32.90	5.46	32.86
AV	4.92396G	45.72	54.00	-8.28	40.22	3	Vertical	78	1.10	-	32.90	5.46	32.86

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

24/04/2021



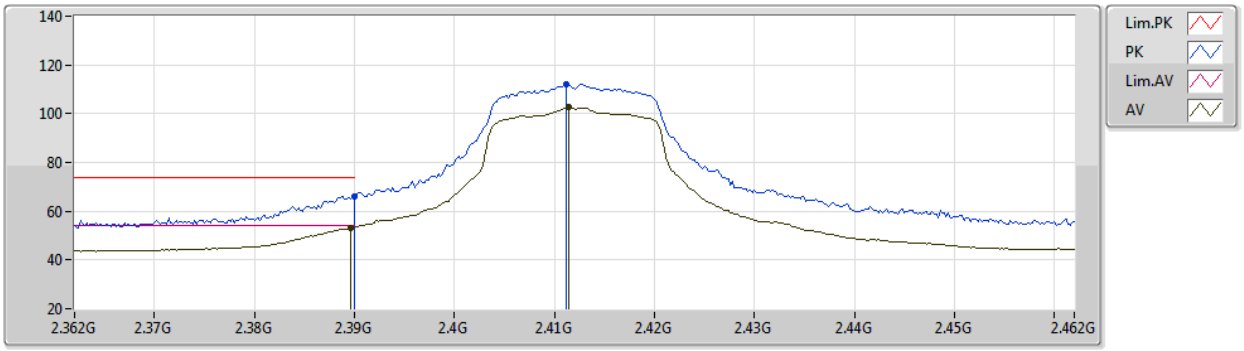
EUT X_2TX
Setting 21.5
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92402G	55.78	74.00	-18.22	50.28	3	Horizontal	324	1.00	-	32.90	5.46	32.86
AV	4.92396G	53.09	54.00	-0.91	47.59	3	Horizontal	324	1.00	-	32.90	5.46	32.86

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

24/04/2021



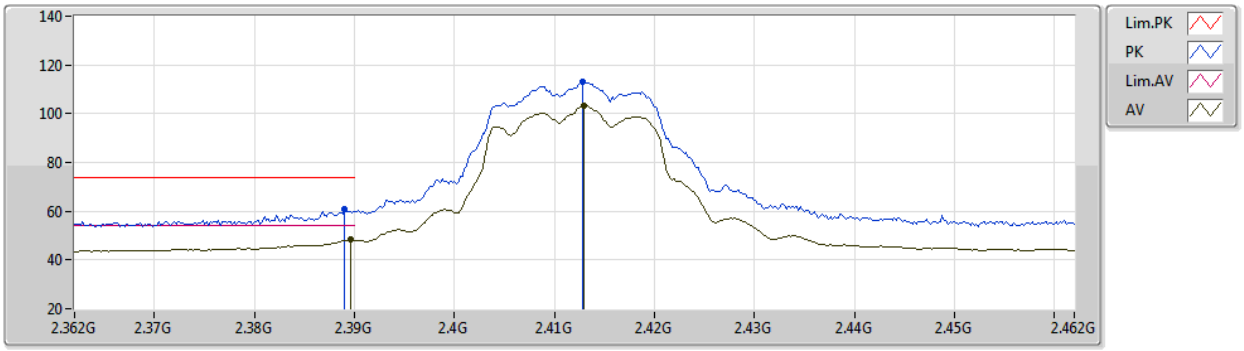
EUT Z_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	66.28	74.00	-7.72	35.60	3	Vertical	171	1.72	-	27.48	3.20	-
AV	2.3896G	53.05	54.00	-0.95	22.37	3	Vertical	171	1.72	-	27.48	3.20	-
PK	2.4112G	112.02	Inf	-Inf	81.29	3	Vertical	171	1.72	-	27.52	3.21	-
AV	2.4114G	102.55	Inf	-Inf	71.82	3	Vertical	171	1.72	-	27.52	3.21	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

24/04/2021



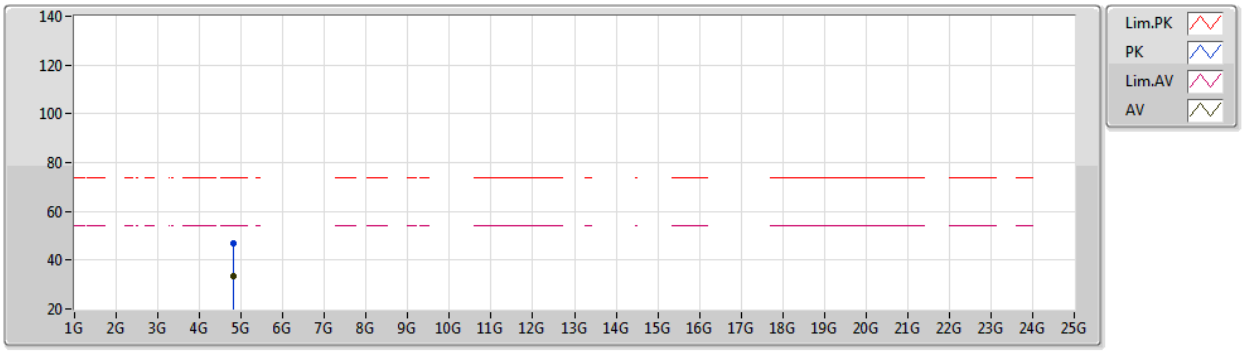
EUT Z_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.389G	60.68	74.00	-13.32	30.00	3	Horizontal	340	2.83	-	27.48	3.20	-
AV	2.3896G	48.39	54.00	-5.61	17.71	3	Horizontal	340	2.83	-	27.48	3.20	-
PK	2.4128G	112.97	Inf	-Inf	82.23	3	Horizontal	340	2.83	-	27.53	3.21	-
AV	2.413G	103.14	Inf	-Inf	72.40	3	Horizontal	340	2.83	-	27.53	3.21	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

24/04/2021



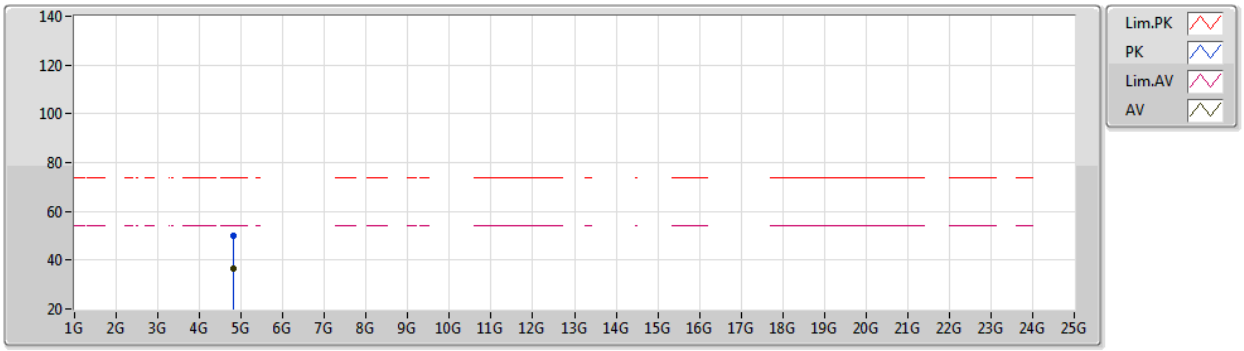
EUT X_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8262G	46.71	74.00	-27.29	41.62	3	Vertical	64	1.79	-	32.56	5.41	32.88
AV	4.82604G	33.54	54.00	-20.46	28.45	3	Vertical	64	1.79	-	32.56	5.41	32.88

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

24/04/2021



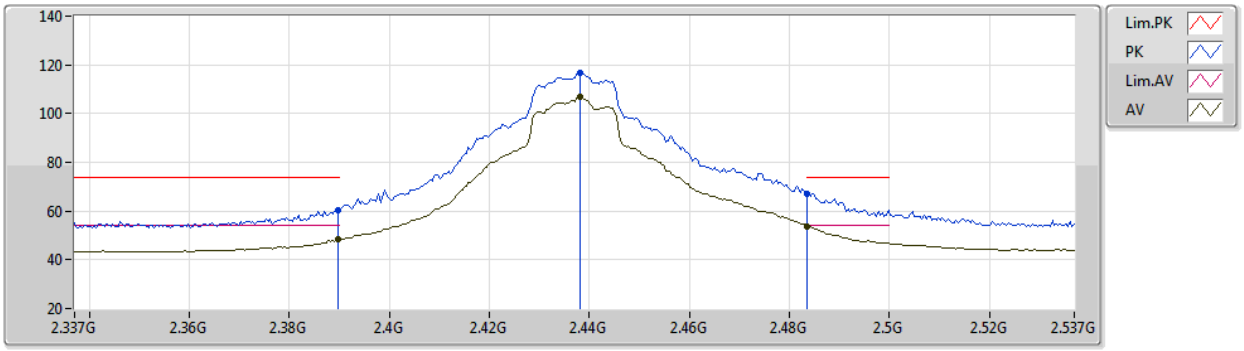
EUT X_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8254G	50.18	74.00	-23.82	45.10	3	Horizontal	318	1.00	-	32.55	5.41	32.88
AV	4.82412G	36.30	54.00	-17.70	31.23	3	Horizontal	318	1.00	-	32.54	5.41	32.88

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

24/04/2021



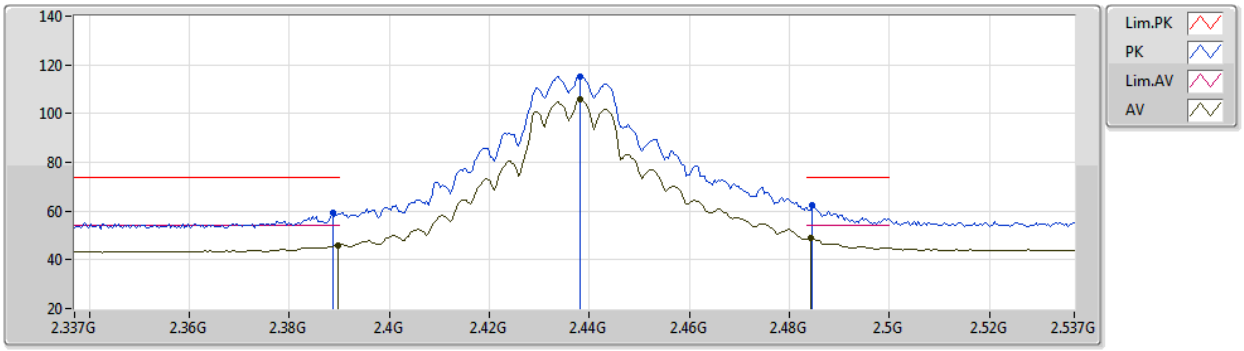
EUT Z_2TX
Setting 22.5
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	60.55	74.00	-13.45	29.87	3	Vertical	136	1.80	-	27.48	3.20	-
AV	2.3898G	48.33	54.00	-5.67	17.65	3	Vertical	136	1.80	-	27.48	3.20	-
PK	2.4382G	116.61	Inf	-Inf	85.79	3	Vertical	136	1.80	-	27.58	3.24	-
AV	2.4382G	107.08	Inf	-Inf	76.26	3	Vertical	136	1.80	-	27.58	3.24	-
PK	2.4835G	67.32	74.00	-6.68	36.31	3	Vertical	136	1.80	-	27.73	3.28	-
AV	2.4835G	53.79	54.00	-0.21	22.78	3	Vertical	136	1.80	-	27.73	3.28	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

24/04/2021



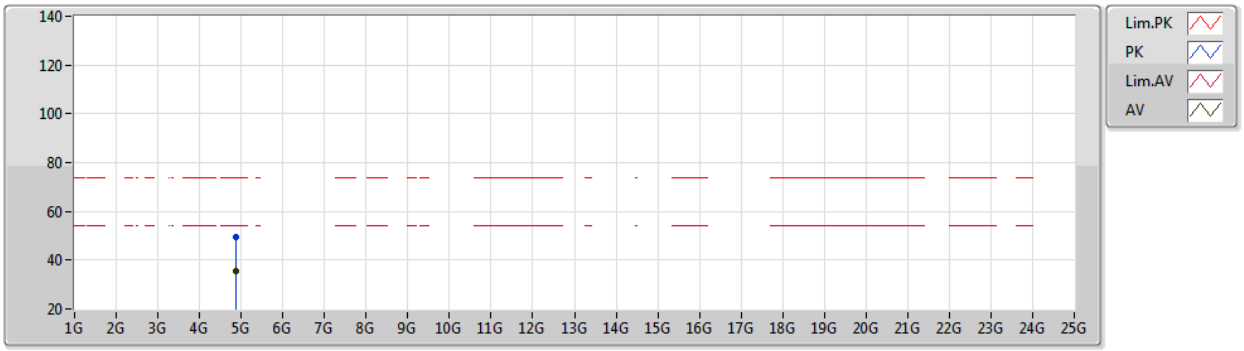
EUT Z_2TX
Setting 22.5
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3886G	59.35	74.00	-14.65	28.67	3	Horizontal	337	2.95	-	27.48	3.20	-
AV	2.3898G	45.99	54.00	-8.01	15.31	3	Horizontal	337	2.95	-	27.48	3.20	-
PK	2.4382G	115.43	Inf	-Inf	84.61	3	Horizontal	337	2.95	-	27.58	3.24	-
AV	2.4382G	105.82	Inf	-Inf	75.00	3	Horizontal	337	2.95	-	27.58	3.24	-
PK	2.4846G	62.32	74.00	-11.68	31.30	3	Horizontal	337	2.95	-	27.74	3.28	-
AV	2.4842G	48.83	54.00	-5.17	17.81	3	Horizontal	337	2.95	-	27.74	3.28	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

24/04/2021



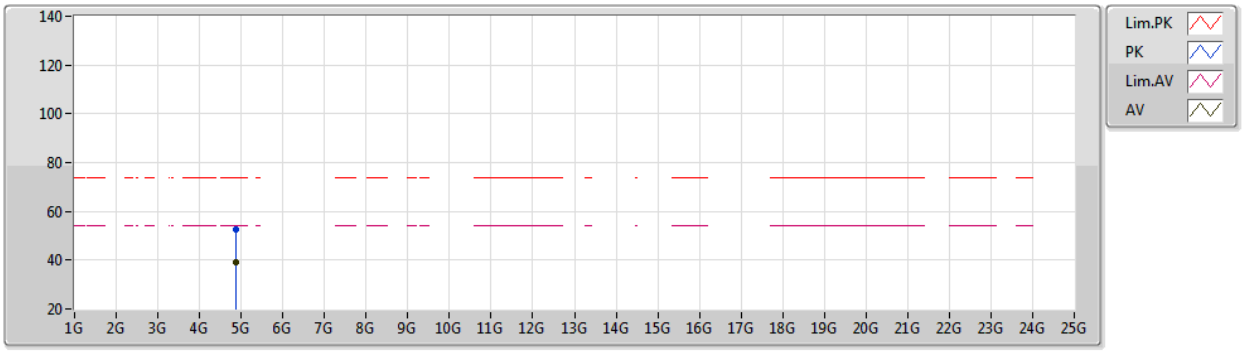
EUT X_2TX
Setting 22.5
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87696G	49.23	74.00	-24.77	43.91	3	Vertical	58	1.53	-	32.75	5.44	32.87
AV	4.87624G	35.66	54.00	-18.34	30.34	3	Vertical	58	1.53	-	32.75	5.44	32.87

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

24/04/2021



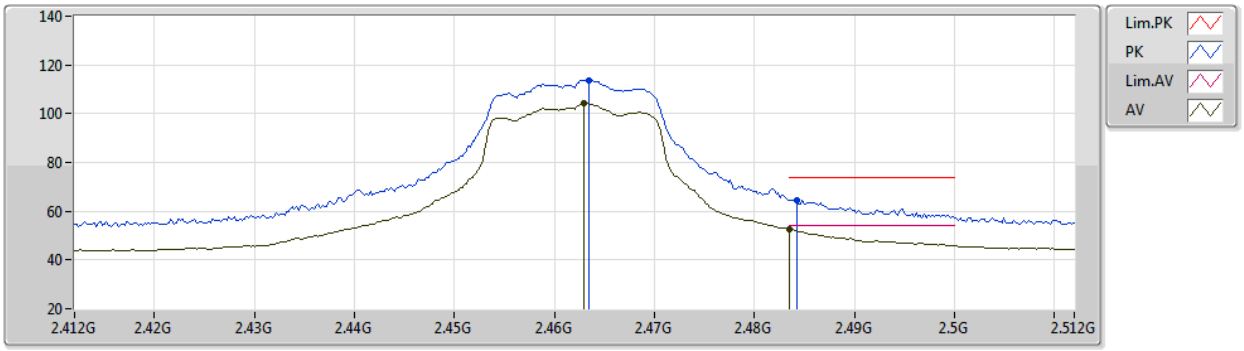
EUT X_2TX
Setting 22.5
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87476G	52.67	74.00	-21.33	47.35	3	Horizontal	331	1.20	-	32.75	5.44	32.87
AV	4.87484G	39.08	54.00	-14.92	33.76	3	Horizontal	331	1.20	-	32.75	5.44	32.87

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

24/04/2021



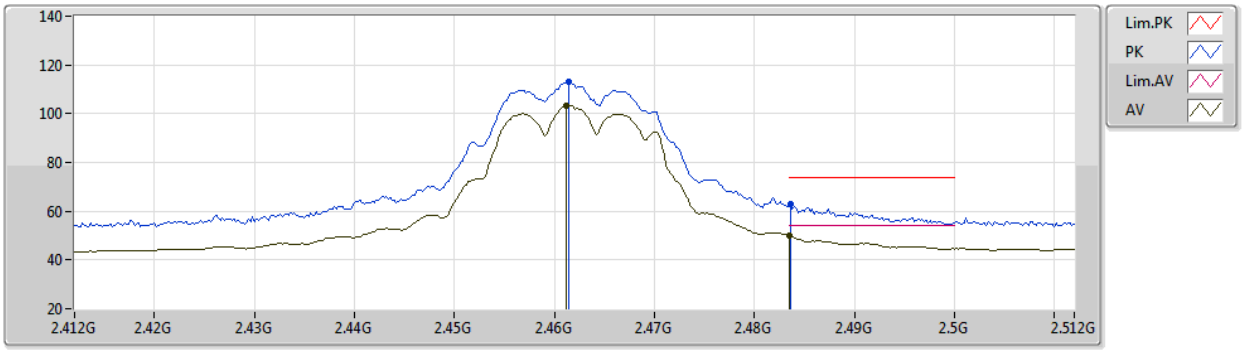
EUT Z_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4634G	113.67	Inf	-Inf	82.76	3	Vertical	150	2.03	-	27.65	3.26	-
AV	2.463G	104.27	Inf	-Inf	73.36	3	Vertical	150	2.03	-	27.65	3.26	-
PK	2.4842G	64.73	74.00	-9.27	33.71	3	Vertical	150	2.03	-	27.74	3.28	-
AV	2.4835G	52.60	54.00	-1.40	21.59	3	Vertical	150	2.03	-	27.73	3.28	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

24/04/2021



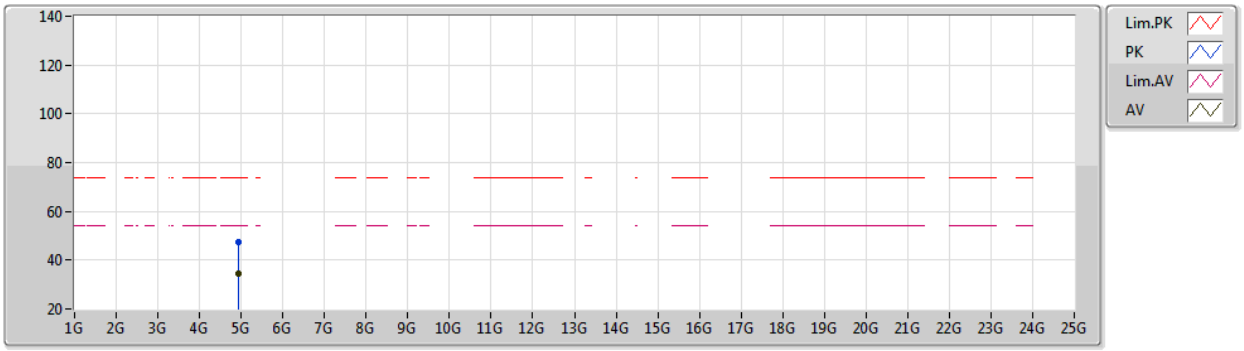
EUT Z_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4614G	113.16	Inf	-Inf	82.25	3	Horizontal	191	1.41	-	27.65	3.26	-
AV	2.4612G	103.46	Inf	-Inf	72.56	3	Horizontal	191	1.41	-	27.64	3.26	-
PK	2.4836G	63.00	74.00	-11.00	31.99	3	Horizontal	191	1.41	-	27.73	3.28	-
AV	2.4835G	50.11	54.00	-3.89	19.10	3	Horizontal	191	1.41	-	27.73	3.28	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

24/04/2021



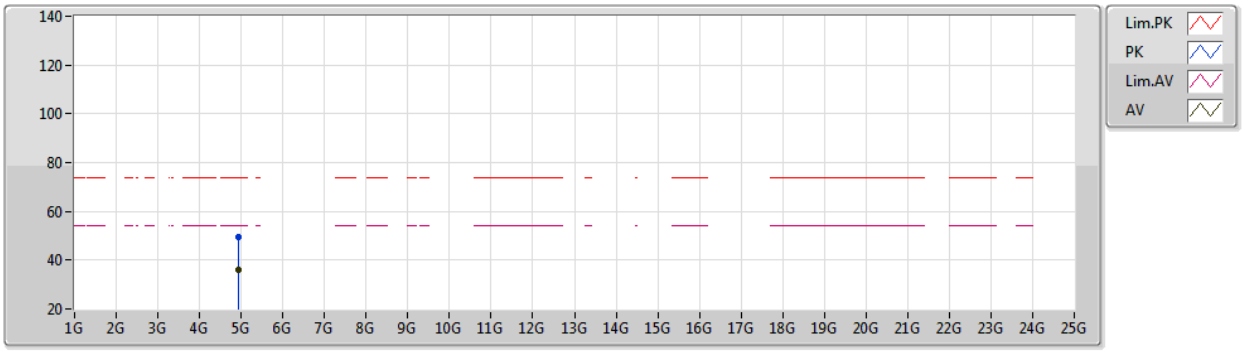
EUT X_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92604G	47.31	74.00	-26.69	41.81	3	Vertical	62	1.61	-	32.90	5.46	32.86
AV	4.92204G	34.47	54.00	-19.53	28.98	3	Vertical	62	1.61	-	32.89	5.46	32.86

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

24/04/2021



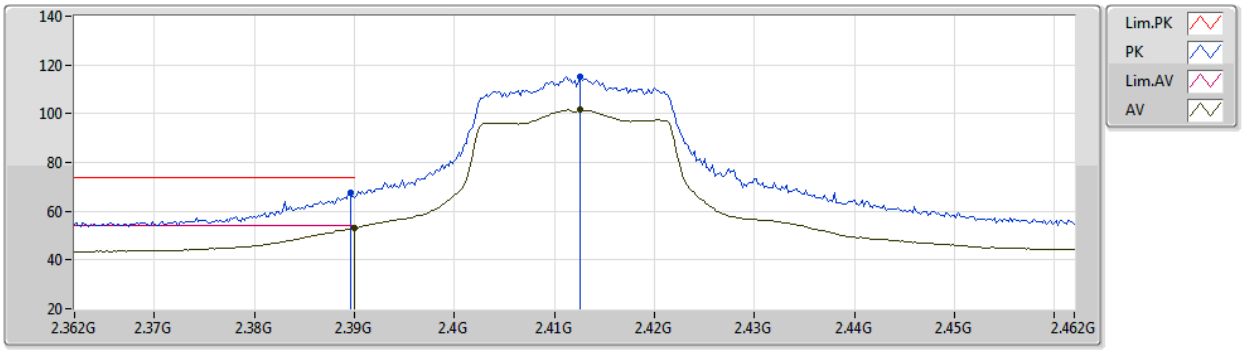
EUT X_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92696G	49.58	74.00	-24.42	44.07	3	Horizontal	63	2.53	-	32.91	5.46	32.86
AV	4.92196G	35.83	54.00	-18.17	30.34	3	Horizontal	63	2.53	-	32.89	5.46	32.86

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

24/04/2021



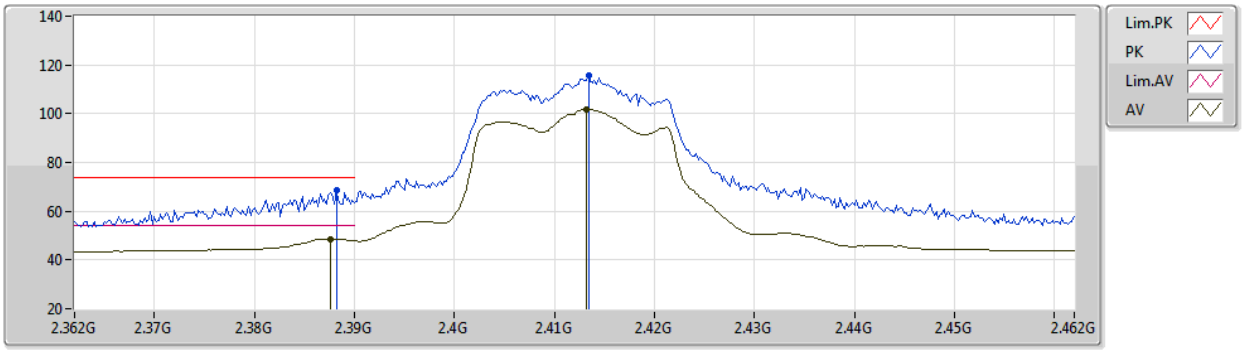
EUT Z_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3896G	67.67	74.00	-6.33	36.99	3	Vertical	172	1.70	-	27.48	3.20	-
AV	2.39G	53.16	54.00	-0.84	22.48	3	Vertical	172	1.70	-	27.48	3.20	-
PK	2.4126G	115.23	Inf	-Inf	84.49	3	Vertical	172	1.70	-	27.53	3.21	-
AV	2.4126G	101.55	Inf	-Inf	70.81	3	Vertical	172	1.70	-	27.53	3.21	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

24/04/2021



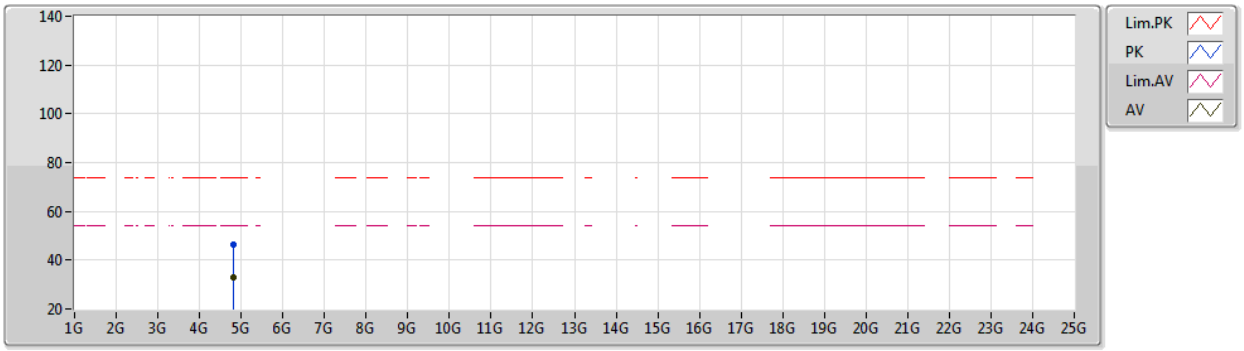
EUT Z_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3882G	68.67	74.00	-5.33	37.99	3	Horizontal	340	2.82	-	27.48	3.20	-
AV	2.3876G	48.68	54.00	-5.32	18.00	3	Horizontal	340	2.82	-	27.48	3.20	-
PK	2.4134G	115.76	Inf	-Inf	85.02	3	Horizontal	340	2.82	-	27.53	3.21	-
AV	2.4132G	101.69	Inf	-Inf	70.95	3	Horizontal	340	2.82	-	27.53	3.21	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

24/04/2021



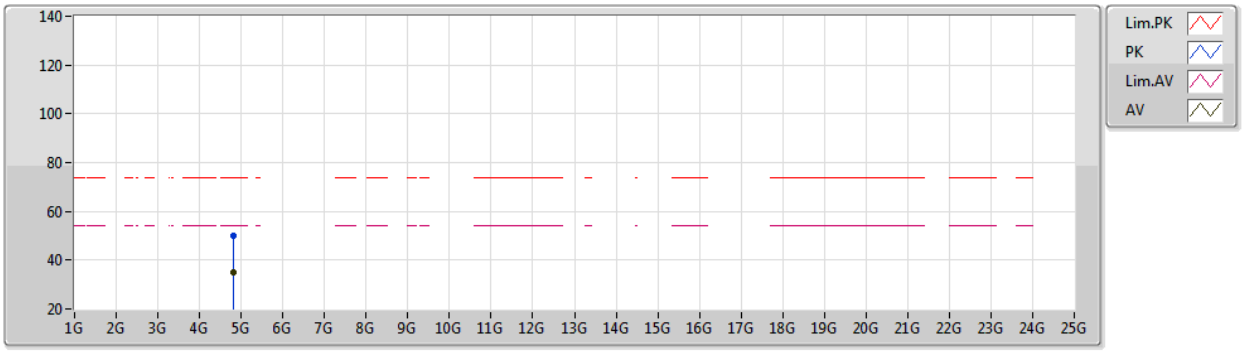
EUT X_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8254G	46.44	74.00	-27.56	41.36	3	Vertical	72	1.76	-	32.55	5.41	32.88
AV	4.828G	32.79	54.00	-21.21	27.69	3	Vertical	72	1.76	-	32.57	5.41	32.88

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

24/04/2021



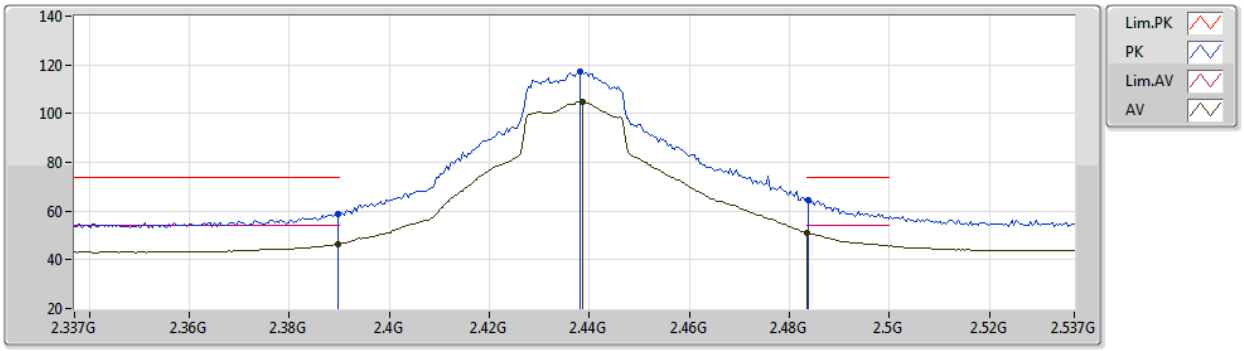
EUT X_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82492G	49.79	74.00	-24.21	44.71	3	Horizontal	321	1.08	-	32.55	5.41	32.88
AV	4.82552G	35.12	54.00	-18.88	30.04	3	Horizontal	321	1.08	-	32.55	5.41	32.88

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

24/04/2021



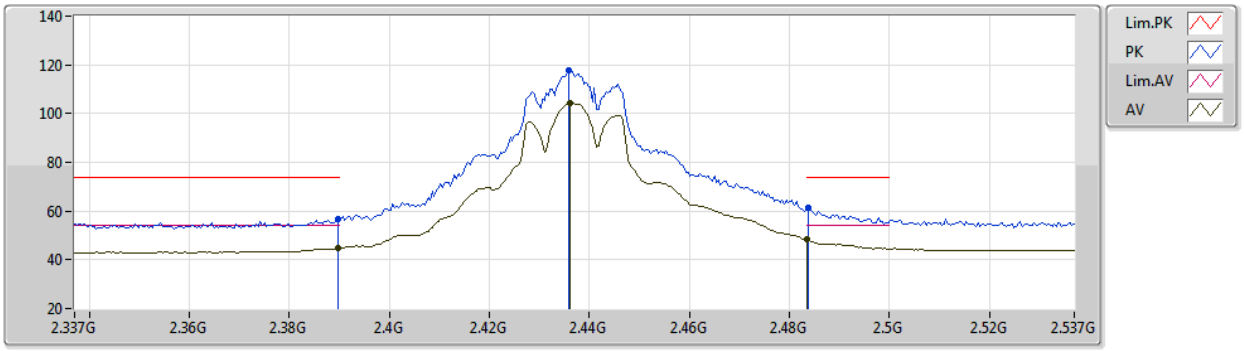
EUT Z_2TX
Setting 22
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	58.68	74.00	-15.32	28.00	3	Vertical	135	1.80	-	27.48	3.20	-
AV	2.3898G	46.46	54.00	-7.54	15.78	3	Vertical	135	1.80	-	27.48	3.20	-
PK	2.4382G	117.38	Inf	-Inf	86.56	3	Vertical	135	1.80	-	27.58	3.24	-
AV	2.4386G	105.01	Inf	-Inf	74.19	3	Vertical	135	1.80	-	27.58	3.24	-
PK	2.4838G	64.70	74.00	-9.30	33.68	3	Vertical	135	1.80	-	27.74	3.28	-
AV	2.4835G	51.09	54.00	-2.91	20.08	3	Vertical	135	1.80	-	27.73	3.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

24/04/2021



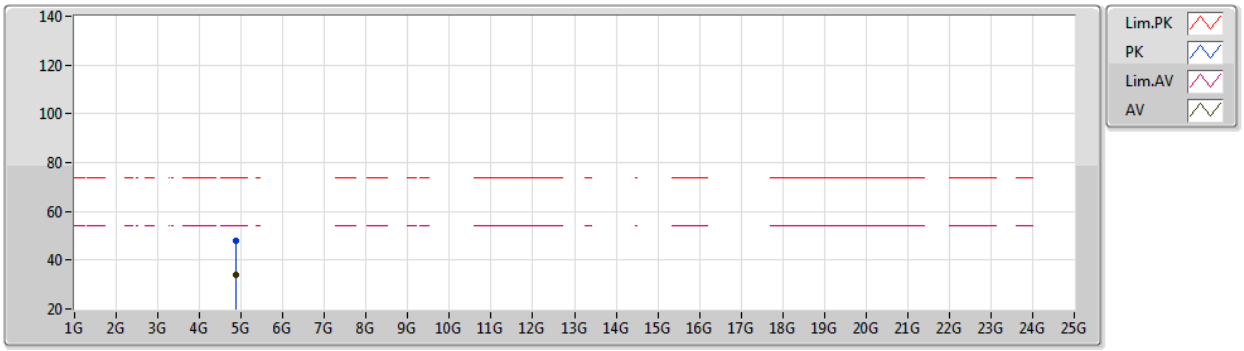
EUT Z_2TX
Setting 22
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	56.77	74.00	-17.23	26.09	3	Horizontal	191	1.28	-	27.48	3.20	-
AV	2.3898G	44.75	54.00	-9.25	14.07	3	Horizontal	191	1.28	-	27.48	3.20	-
PK	2.4358G	117.56	Inf	-Inf	86.75	3	Horizontal	191	1.28	-	27.57	3.24	-
AV	2.4362G	104.47	Inf	-Inf	73.66	3	Horizontal	191	1.28	-	27.57	3.24	-
PK	2.4838G	61.23	74.00	-12.77	30.21	3	Horizontal	191	1.28	-	27.74	3.28	-
AV	2.4835G	48.20	54.00	-5.80	17.19	3	Horizontal	191	1.28	-	27.73	3.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

24/04/2021



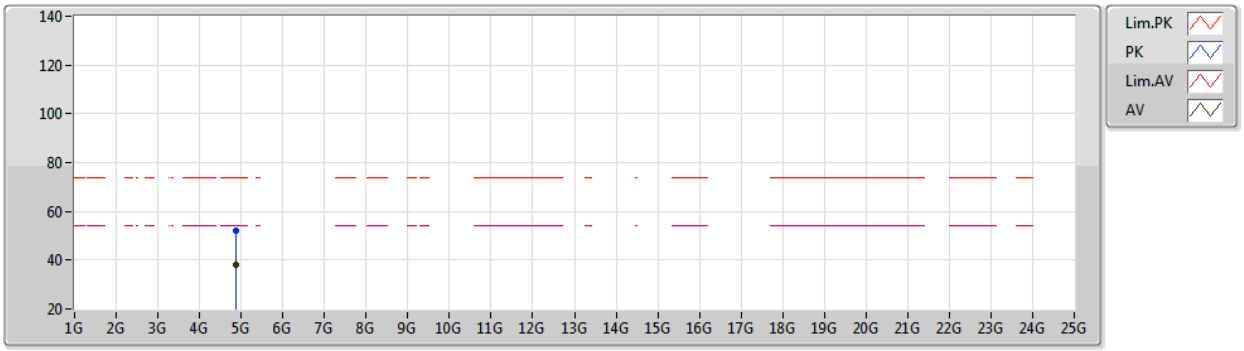
EUT X_2TX
Setting 22
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.86976G	48.16	74.00	-25.84	42.86	3	Vertical	62	1.51	-	32.74	5.43	32.87
AV	4.87044G	34.06	54.00	-19.94	28.75	3	Vertical	62	1.51	-	32.74	5.44	32.87

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

24/04/2021



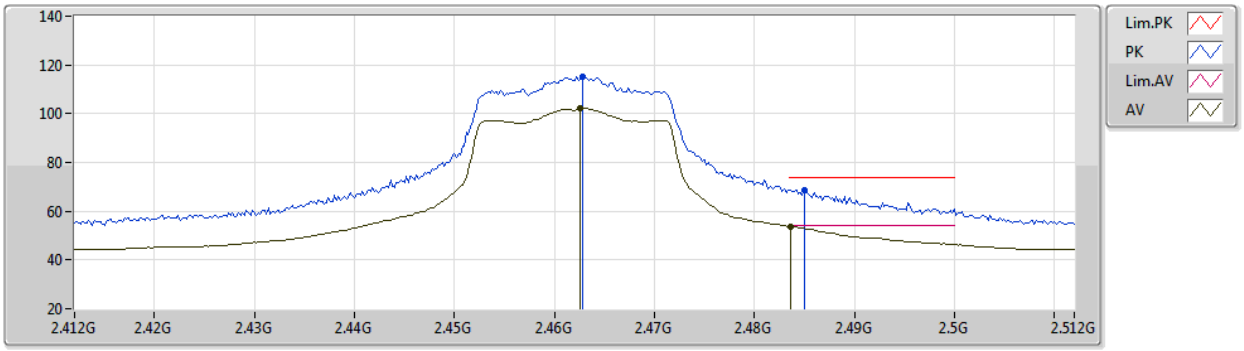
EUT X_2TX
Setting 22
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8764G	51.95	74.00	-22.05	46.63	3	Horizontal	326	1.05	-	32.75	5.44	32.87
AV	4.875G	37.93	54.00	-16.07	32.61	3	Horizontal	326	1.05	-	32.75	5.44	32.87

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

24/04/2021



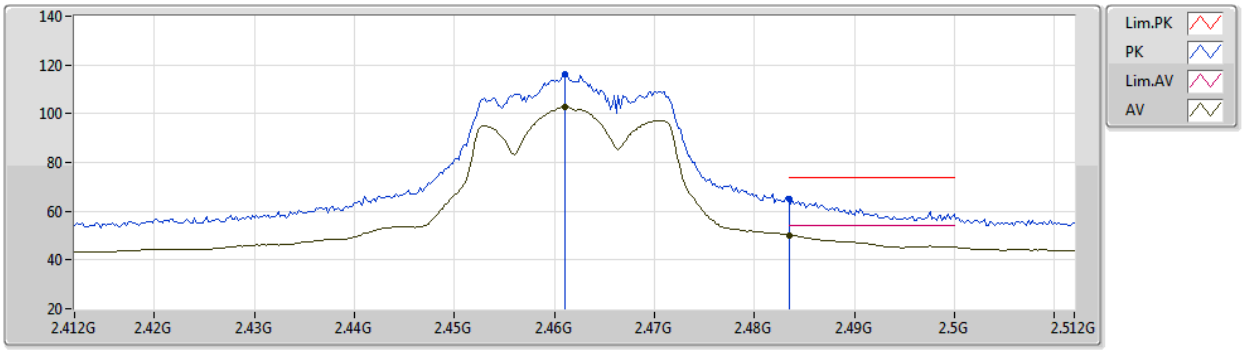
EUT Z_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4628G	115.32	Inf	-Inf	84.41	3	Vertical	173	1.78	-	27.65	3.26	-
AV	2.4626G	102.38	Inf	-Inf	71.47	3	Vertical	173	1.78	-	27.65	3.26	-
PK	2.485G	68.82	74.00	-5.18	37.79	3	Vertical	173	1.78	-	27.74	3.29	-
AV	2.4836G	53.85	54.00	-0.15	22.84	3	Vertical	173	1.78	-	27.73	3.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

24/04/2021



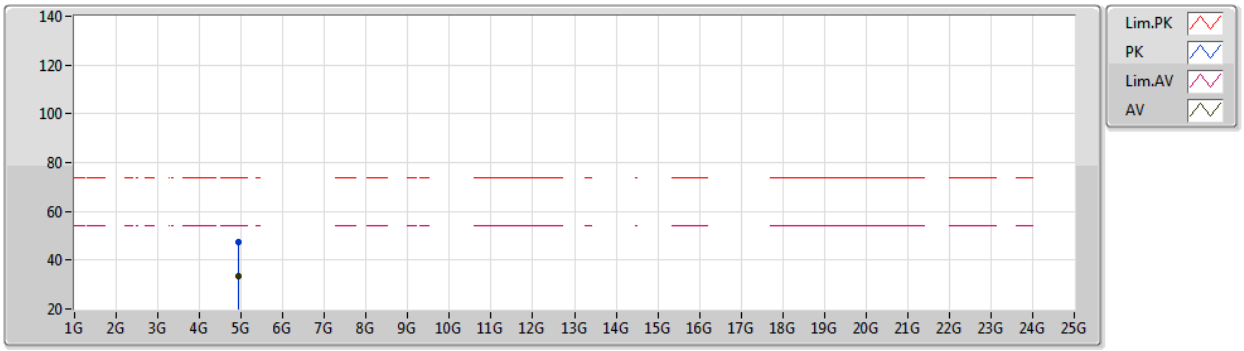
EUT Z_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.461G	115.96	Inf	-Inf	85.06	3	Horizontal	191	1.41	-	27.64	3.26	-
AV	2.461G	102.57	Inf	-Inf	71.67	3	Horizontal	191	1.41	-	27.64	3.26	-
PK	2.4835G	64.96	74.00	-9.04	33.95	3	Horizontal	191	1.41	-	27.73	3.28	-
AV	2.4835G	50.24	54.00	-3.76	19.23	3	Horizontal	191	1.41	-	27.73	3.28	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

24/04/2021



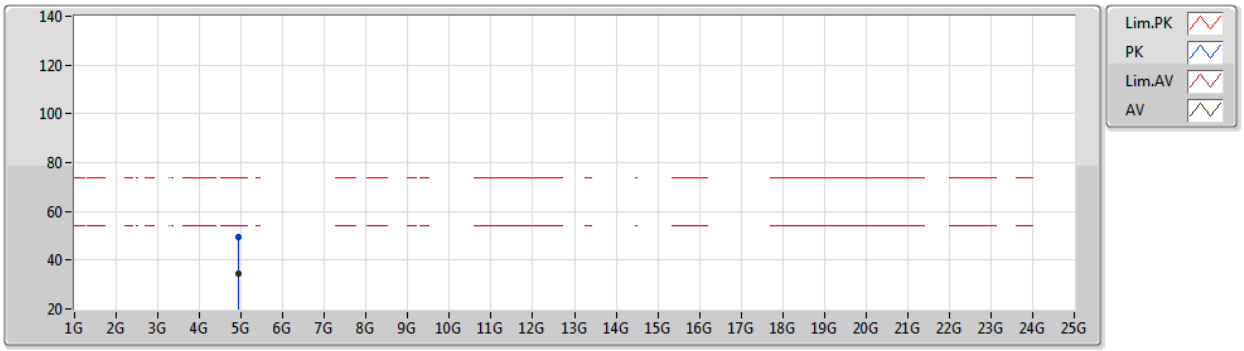
EUT X_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92188G	47.41	74.00	-26.59	41.92	3	Vertical	76	1.00	-	32.89	5.46	32.86
AV	4.92308G	33.41	54.00	-20.59	27.92	3	Vertical	76	1.00	-	32.89	5.46	32.86

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

24/04/2021



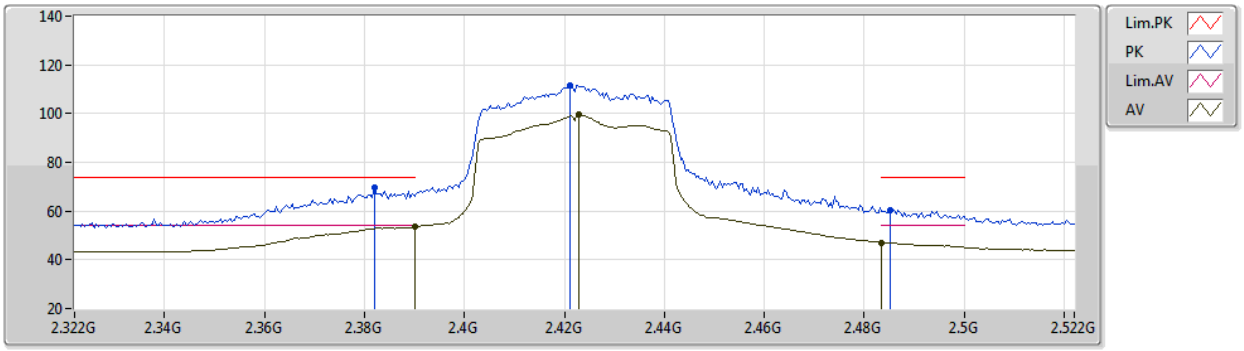
EUT X_2TX
Setting 20
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.91956G	49.57	74.00	-24.43	44.09	3	Horizontal	60	2.10	-	32.88	5.46	32.86
AV	4.92068G	34.60	54.00	-19.40	29.12	3	Horizontal	60	2.10	-	32.88	5.46	32.86

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

24/04/2021



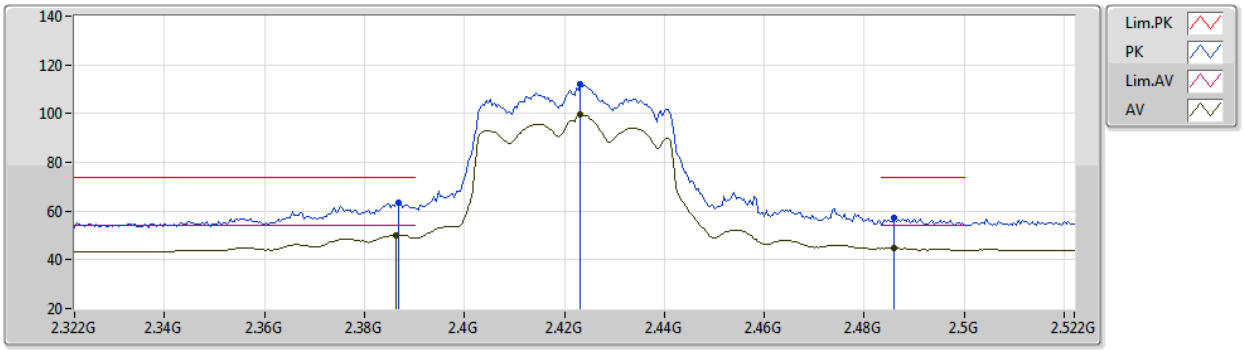
EUT Z_2TX
Setting 19
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.382G	69.49	74.00	-4.51	38.83	3	Vertical	132	1.15	-	27.46	3.20	-
AV	2.39G	53.53	54.00	-0.47	22.85	3	Vertical	132	1.15	-	27.48	3.20	-
PK	2.4212G	111.76	Inf	-Inf	81.00	3	Vertical	132	1.15	-	27.54	3.22	-
AV	2.4228G	99.40	Inf	-Inf	68.63	3	Vertical	132	1.15	-	27.55	3.22	-
PK	2.4852G	60.29	74.00	-13.71	29.26	3	Vertical	132	1.15	-	27.74	3.29	-
AV	2.4835G	47.06	54.00	-6.94	16.05	3	Vertical	132	1.15	-	27.73	3.28	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

24/04/2021



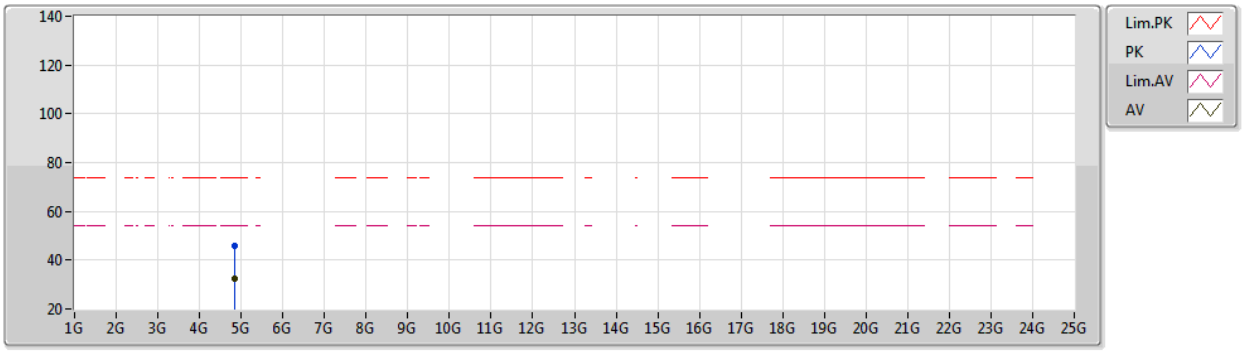
EUT Z_2TX
Setting 19
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3868G	63.40	74.00	-10.60	32.73	3	Horizontal	331	2.76	-	27.47	3.20	-
AV	2.3864G	50.13	54.00	-3.87	19.46	3	Horizontal	331	2.76	-	27.47	3.20	-
PK	2.4232G	111.91	Inf	-Inf	81.14	3	Horizontal	331	2.76	-	27.55	3.22	-
AV	2.4232G	99.42	Inf	-Inf	68.65	3	Horizontal	331	2.76	-	27.55	3.22	-
PK	2.486G	57.04	74.00	-16.96	26.01	3	Horizontal	331	2.76	-	27.74	3.29	-
AV	2.486G	44.67	54.00	-9.33	13.64	3	Horizontal	331	2.76	-	27.74	3.29	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

24/04/2021



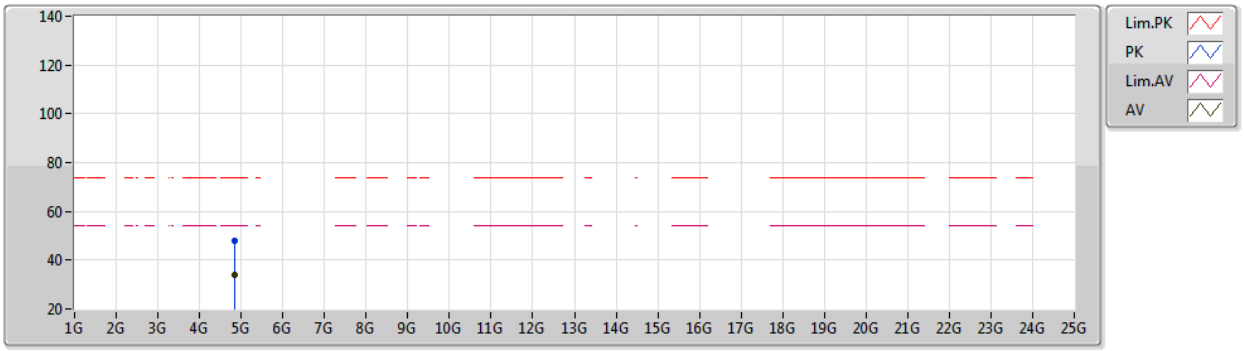
EUT X_2TX
Setting 19
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.83788G	45.79	74.00	-28.21	40.62	3	Vertical	68	1.31	-	32.63	5.42	32.88
AV	4.8412G	32.38	54.00	-21.62	27.19	3	Vertical	68	1.31	-	32.65	5.42	32.88

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

24/04/2021



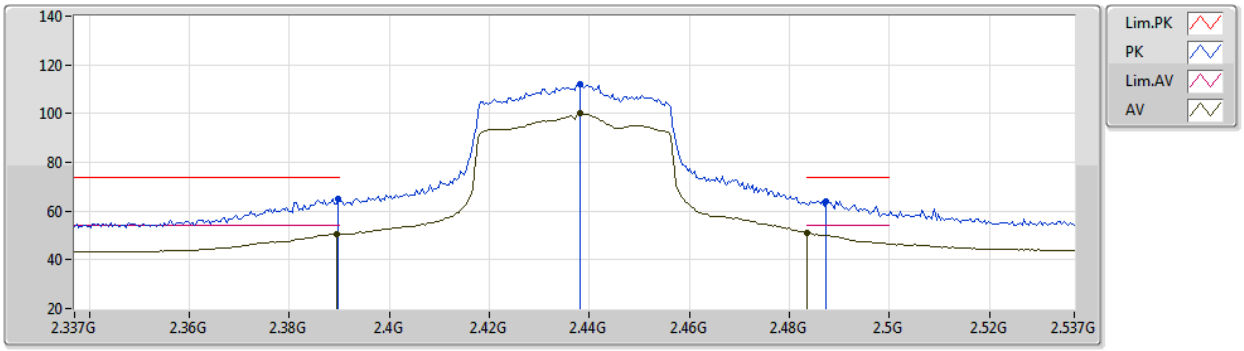
EUT X_2TX
Setting 19
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.84336G	47.77	74.00	-26.23	42.57	3	Horizontal	328	1.01	-	32.66	5.42	32.88
AV	4.84564G	33.97	54.00	-20.03	28.75	3	Horizontal	328	1.01	-	32.67	5.42	32.87

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

24/04/2021



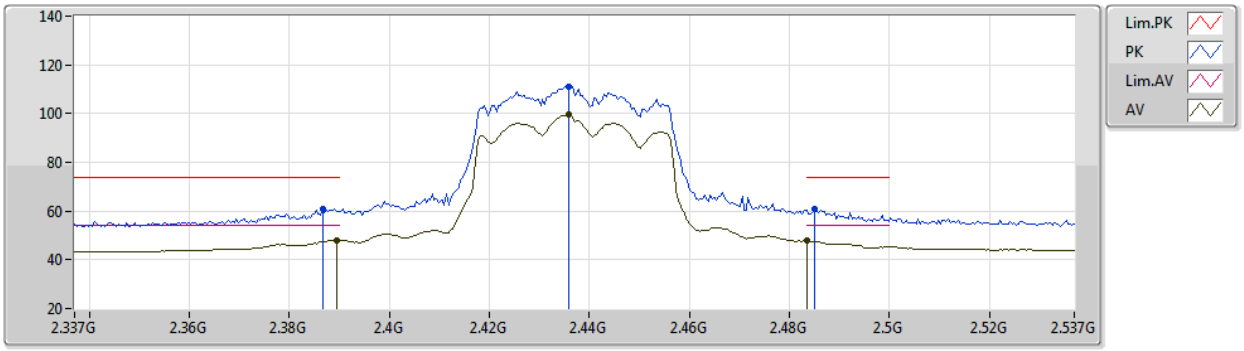
EUT Z_2TX
Setting 19
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	65.12	74.00	-8.88	34.44	3	Vertical	134	1.38	-	27.48	3.20	-
AV	2.3894G	50.53	54.00	-3.47	19.85	3	Vertical	134	1.38	-	27.48	3.20	-
PK	2.4382G	112.10	Inf	-Inf	81.28	3	Vertical	134	1.38	-	27.58	3.24	-
AV	2.4382G	99.95	Inf	-Inf	69.13	3	Vertical	134	1.38	-	27.58	3.24	-
PK	2.4874G	64.13	74.00	-9.87	33.09	3	Vertical	134	1.38	-	27.75	3.29	-
AV	2.4835G	50.95	54.00	-3.05	19.94	3	Vertical	134	1.38	-	27.73	3.28	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

24/04/2021



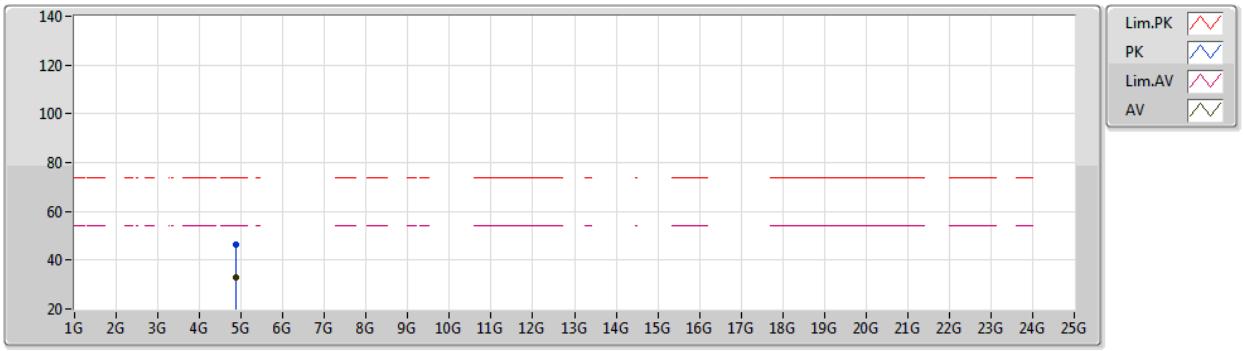
EUT Z_2TX
Setting 19
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3866G	61.02	74.00	-12.98	30.35	3	Horizontal	188	2.95	-	27.47	3.20	-
AV	2.3894G	47.86	54.00	-6.14	17.18	3	Horizontal	188	2.95	-	27.48	3.20	-
PK	2.4358G	111.22	Inf	-Inf	80.41	3	Horizontal	188	2.95	-	27.57	3.24	-
AV	2.4358G	99.50	Inf	-Inf	68.69	3	Horizontal	188	2.95	-	27.57	3.24	-
PK	2.485G	60.87	74.00	-13.13	29.84	3	Horizontal	188	2.95	-	27.74	3.29	-
AV	2.4835G	47.68	54.00	-6.32	16.67	3	Horizontal	188	2.95	-	27.73	3.28	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

24/04/2021



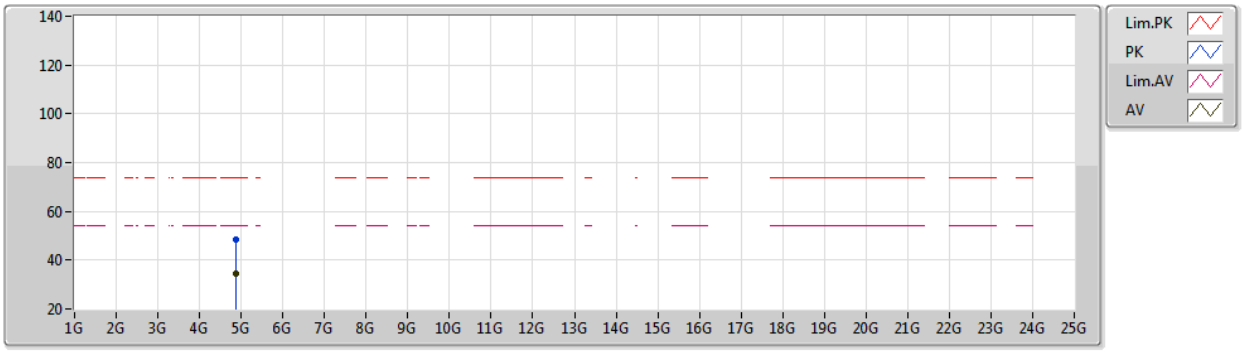
EUT X_2TX
Setting 19
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8736G	46.57	74.00	-27.43	41.25	3	Vertical	62	1.43	-	32.75	5.44	32.87
AV	4.87948G	32.69	54.00	-21.31	27.36	3	Vertical	62	1.43	-	32.76	5.44	32.87

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

24/04/2021



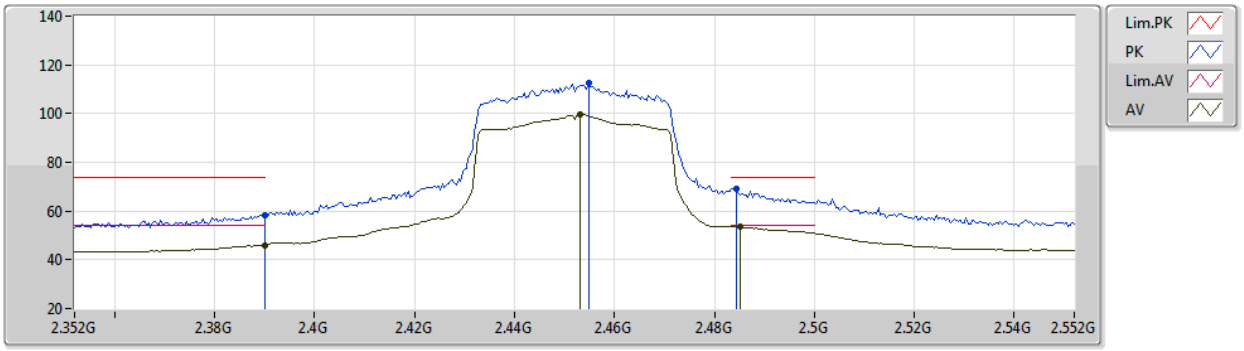
EUT X_2TX
Setting 19
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87632G	48.30	74.00	-25.70	42.98	3	Horizontal	324	1.10	-	32.75	5.44	32.87
AV	4.87508G	34.44	54.00	-19.56	29.12	3	Horizontal	324	1.10	-	32.75	5.44	32.87

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

24/04/2021



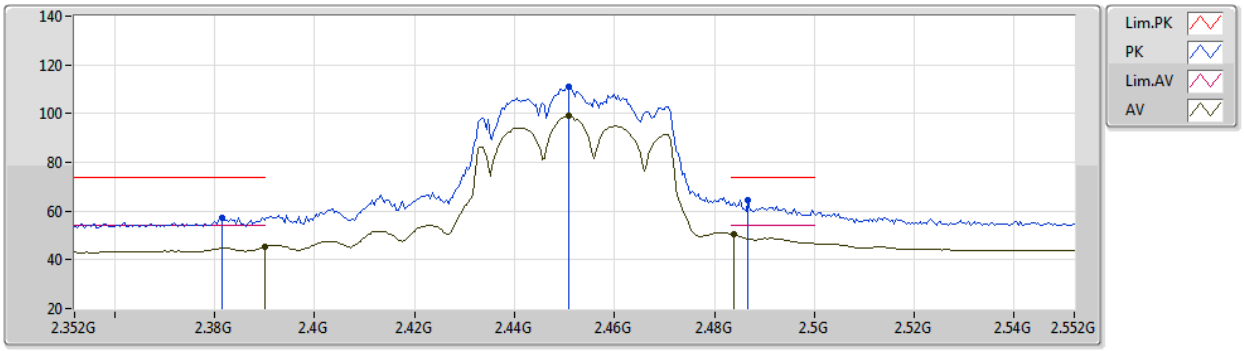
EUT Z_2TX
Setting 19
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	58.10	74.00	-15.90	27.42	3	Vertical	179	2.33	-	27.48	3.20	-
AV	2.39G	46.07	54.00	-7.93	15.39	3	Vertical	179	2.33	-	27.48	3.20	-
PK	2.4548G	112.60	Inf	-Inf	81.73	3	Vertical	179	2.33	-	27.62	3.25	-
AV	2.4532G	99.54	Inf	-Inf	68.68	3	Vertical	179	2.33	-	27.61	3.25	-
PK	2.4844G	69.26	74.00	-4.74	38.24	3	Vertical	179	2.33	-	27.74	3.28	-
AV	2.4852G	53.70	54.00	-0.30	22.67	3	Vertical	179	2.33	-	27.74	3.29	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

24/04/2021



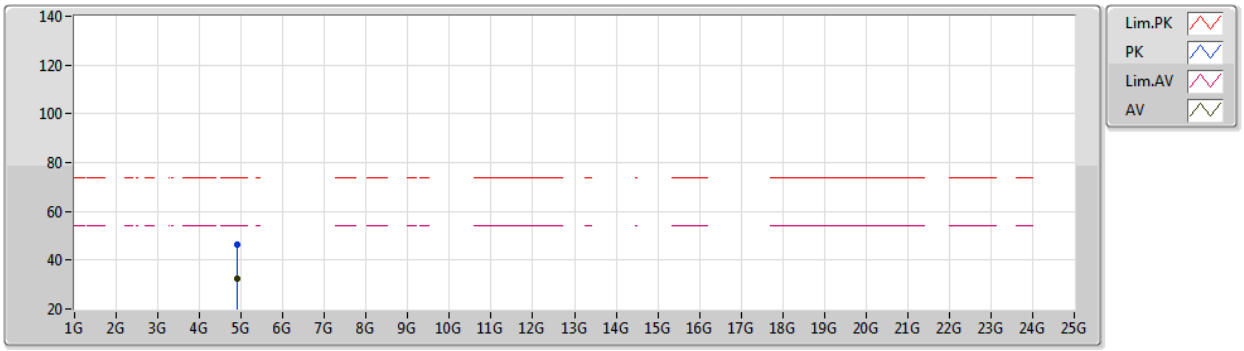
EUT Z_2TX
Setting 19
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3816G	57.25	74.00	-16.75	26.59	3	Horizontal	191	1.54	-	27.46	3.20	-
AV	2.39G	45.24	54.00	-8.76	14.56	3	Horizontal	191	1.54	-	27.48	3.20	-
PK	2.4508G	111.00	Inf	-Inf	80.15	3	Horizontal	191	1.54	-	27.60	3.25	-
AV	2.4508G	99.19	Inf	-Inf	68.34	3	Horizontal	191	1.54	-	27.60	3.25	-
PK	2.4868G	64.55	74.00	-9.45	33.51	3	Horizontal	191	1.54	-	27.75	3.29	-
AV	2.484G	50.26	54.00	-3.74	19.24	3	Horizontal	191	1.54	-	27.74	3.28	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

24/04/2021



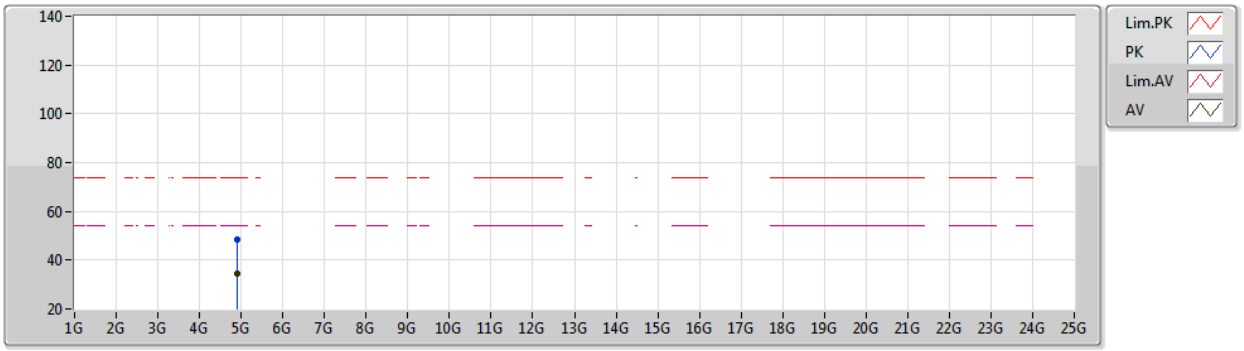
EUT X_2TX
Setting 19
04-E-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.89444G	46.24	74.00	-27.76	40.87	3	Vertical	57	1.80	-	32.79	5.45	32.87
AV	4.89848G	32.59	54.00	-21.41	27.21	3	Vertical	57	1.80	-	32.80	5.45	32.87

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

24/04/2021



EUT X_2TX
Setting 19
04-E-C-5

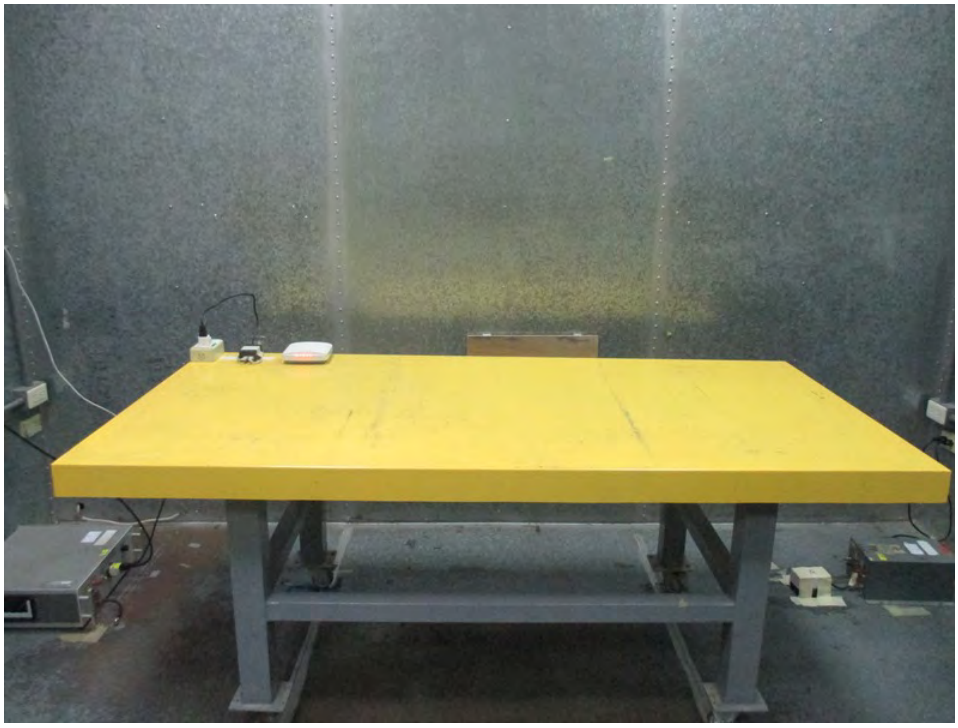
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.90512G	48.39	74.00	-25.61	42.99	3	Horizontal	327	1.01	-	32.82	5.45	32.87
AV	4.90536G	34.47	54.00	-19.53	29.07	3	Horizontal	327	1.01	-	32.82	5.45	32.87

1. Photographs of Conducted Emissions Test Configuration

Intentional - CTX

Test Mode: Mode 4

FRONT VIEW



REAR VIEW

Unintentional - CRX

Test Mode: Mode 2

FRONT VIEW

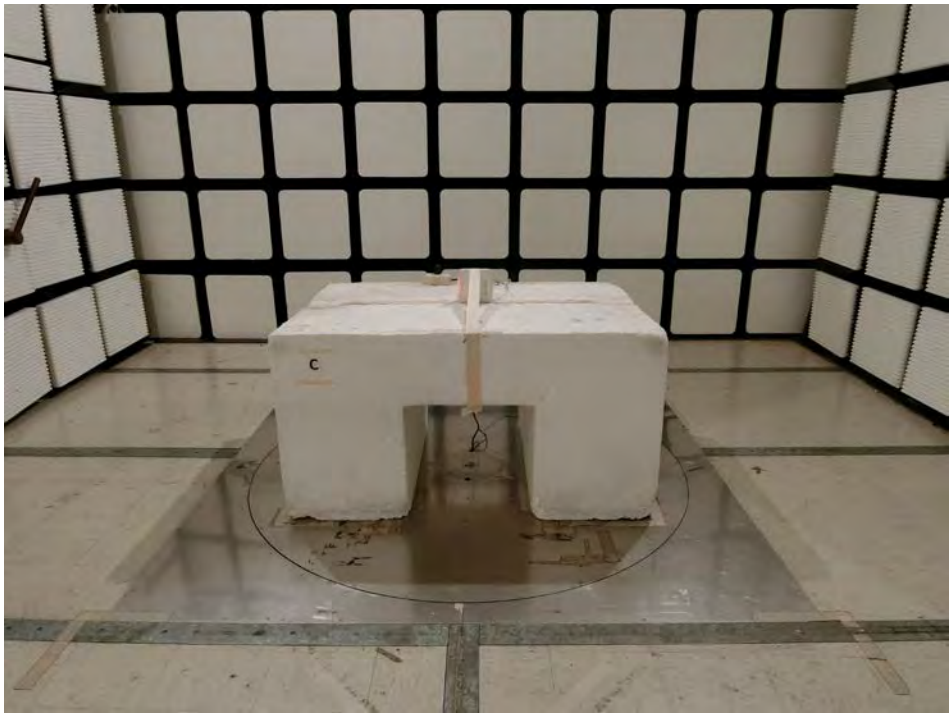
REAR VIEW

2. Photographs of Radiated Emissions Test Configuration

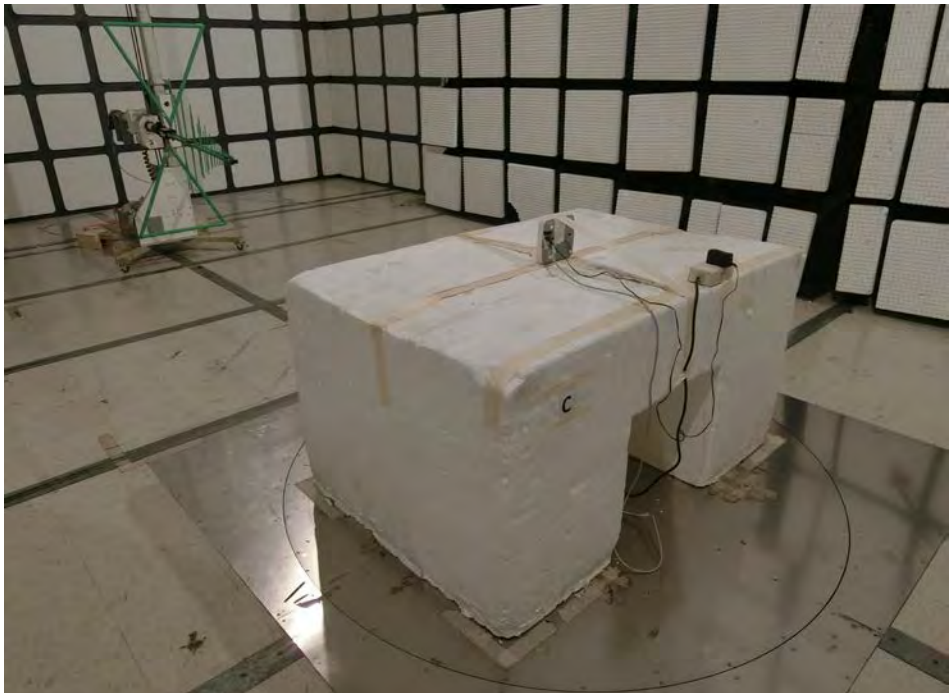
Test Configuration: 30MHz~1GHz

Intentional - CTX

FRONT VIEW



REAR VIEW

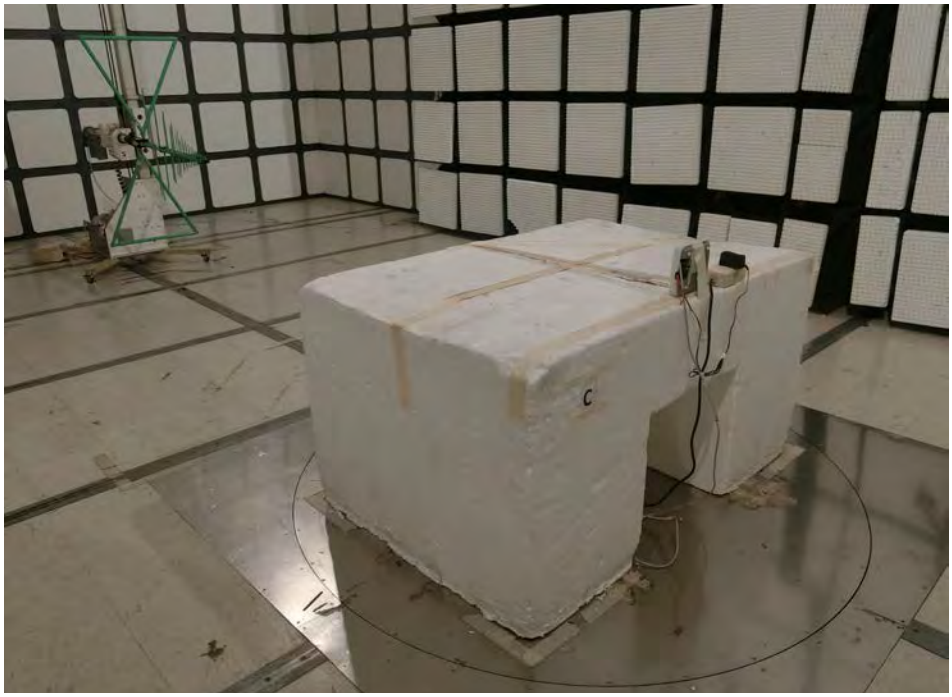


Unintentional – CRX

Test Mode: Mode 2

FRONT VIEW

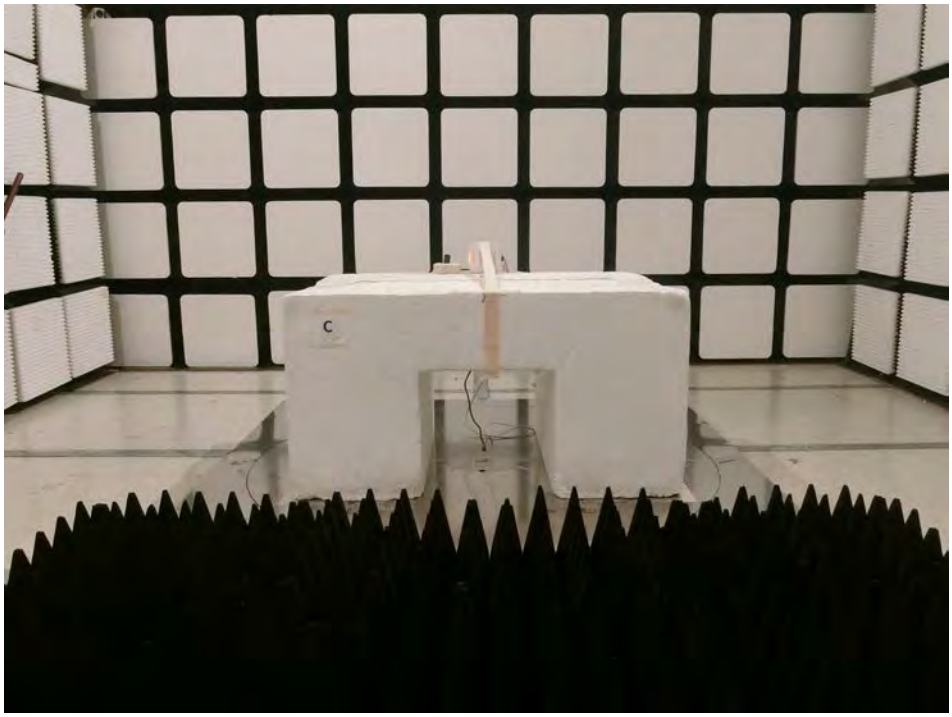
REAR VIEW



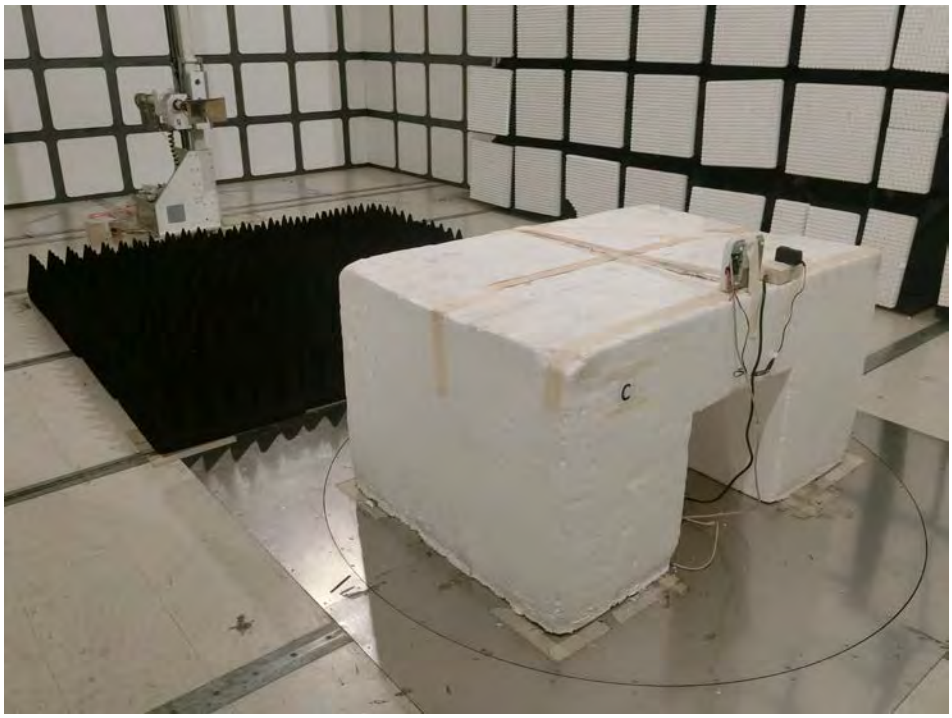
Test Configuration: Above 1GHz

Unintentional 1GHz~5th Harmonic – CRX

FRONT VIEW

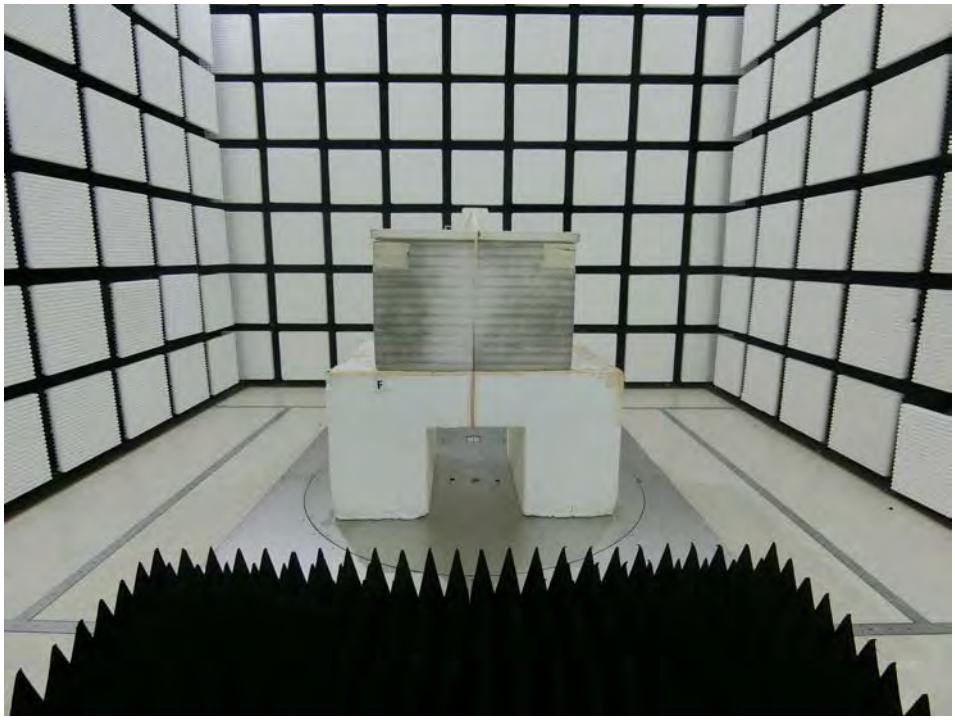


REAR VIEW



Intentional 1GHz~10th Harmonic – CTX

FRONT VIEW



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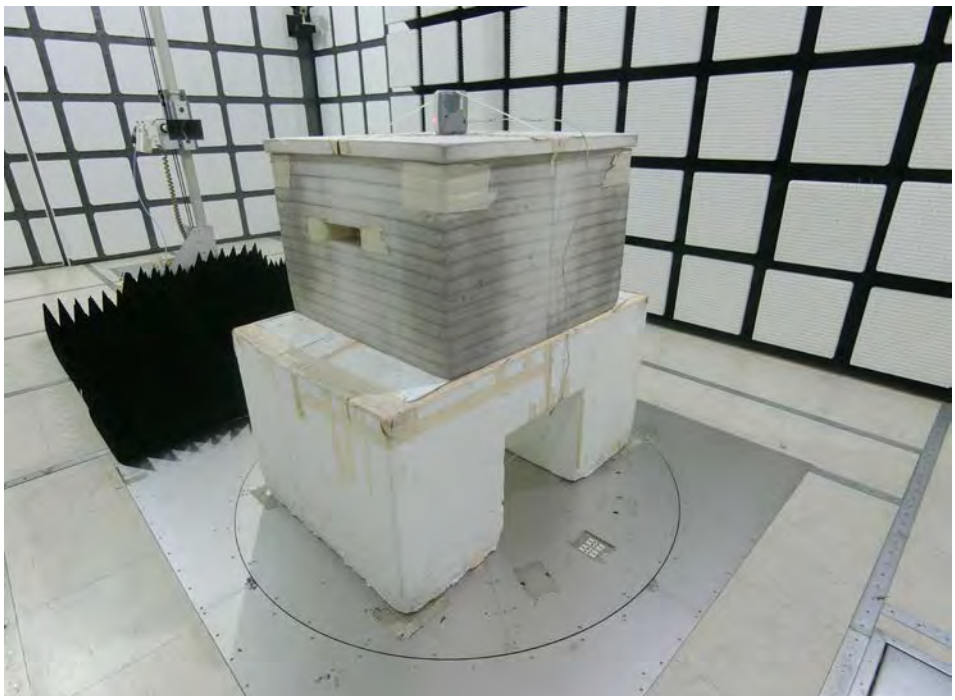
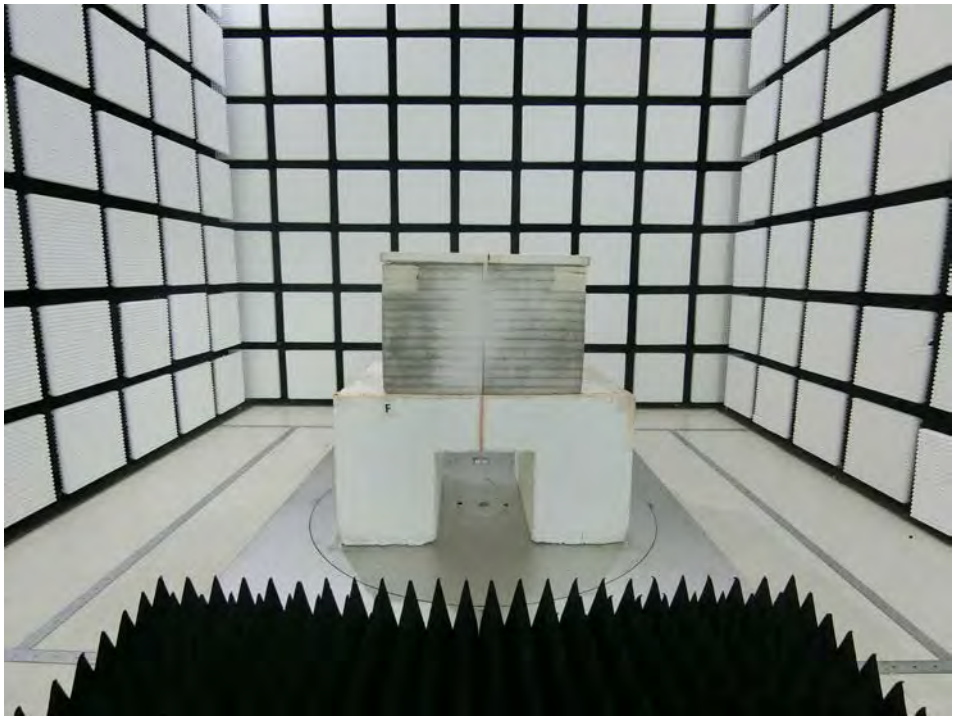
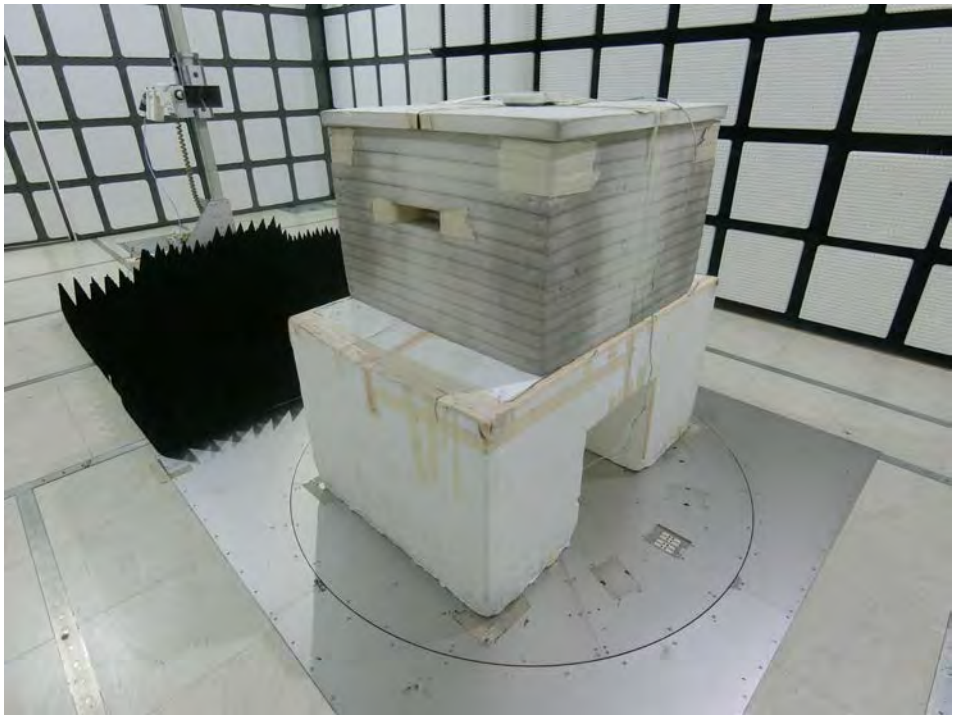


Intentional 1GHz~10th Band Edge Emission – CTX:

FRONT VIEW



REAR VIEW



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