



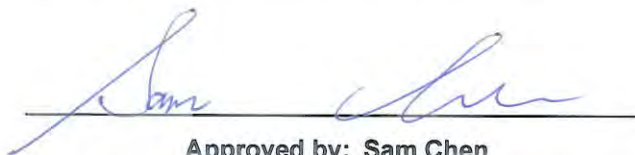
FCC RADIO TEST REPORT

FCC ID : MSQ-RTHR00
Equipment : Wireless-AX11000 Tri-band Gigabit Router
Brand Name : ASUS
Model Name : RT-AX95U, GT-AX11000
Applicant : ASUSTeK COMPUTER INC.
4F, No. 150, Li-Te Rd., Peitou, Taipei 112, Taiwan
Manufacturer (1) : ASKEY TECHNOLOGY (JIANG SU) LTD
NO1388, Jiao Tong Road, Wujiang Economic
Technological Development Area Jiangsu Province
215200 China
Manufacturer (2) : Compal Networking (KunShan) Co., LTD.
No. 520, Nabbang Rd., Economic & Technical
Development Zone Kunshan, Jiangsu Province China
Standard : 47 CFR FCC Part 15.247

The product was received on Jan. 18, 2018, and testing was started from Jan. 18, 2018 and completed on Mar. 07, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

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



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0

Page Number : 3 of 23
Issued Date : May 07, 2018
Report Version : 01



Summary of Test Result

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

Reviewed by: Sam Chen

Report Producer: Cindy Peng



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), ac (VHT20), ax (HE20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), ac (VHT40), ax (HE40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	4TX
2.4-2.4835GHz	802.11g	20	4TX
2.4-2.4835GHz	802.11n HT20	20	4TX
2.4-2.4835GHz	802.11n HT20-BF	20	4TX
2.4-2.4835GHz	802.11ac VHT20	20	4TX
2.4-2.4835GHz	802.11ac VHT20-BF	20	4TX
2.4-2.4835GHz	802.11ax HE20	20	4TX
2.4-2.4835GHz	802.11ax HE20-BF	20	4TX
2.4-2.4835GHz	802.11n HT40	40	4TX
2.4-2.4835GHz	802.11n HT40-BF	40	4TX
2.4-2.4835GHz	802.11ac VHT40	40	4TX
2.4-2.4835GHz	802.11ac VHT40-BF	40	4TX
2.4-2.4835GHz	802.11ax HE40	40	4TX
2.4-2.4835GHz	802.11ax HE40-BF	40	4TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ HE20, HE40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port				Brand	P/N	Type	Connector	Gain (dBi)			
	2.4GHz	5GHz Band1/2	5GHz Band 3	5GHz Band 4					2.4GHz	5GHz Band1/2	5GHz Band 3	5GHz Band 4
1	1	-	4	4	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	1.9	-	2.3	1.9
2	2	-	3	3	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	1.9	-	2.3	1.9
3	3	-	2	2	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	1.9	-	2.3	1.9
4	4	-	1	1	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	1.9	-	2.3	1.9
5	-	1	-	-	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	-	2.3	-	-
6	-	2	-	-	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	-	2.3	-	-
7	-	3	-	-	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	-	2.3	-	-
8	-	4	-	-	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	-	2.3	-	-

Note:

<For 2.4GHz Band>

For IEEE 802.11b/g/n/ac/ax mode <4TX/4RX>:

Ant.1 (Port 1), Ant.2 (Port 2), Ant.3 (Port 3) and Ant.4 (Port 4) will transmit/receive the same signal simultaneously.

Ant.1 (Port 1), Ant.2 (Port 2), Ant.3 (Port 3) and Ant.4 (Port 4) can be used as transmitting/receiving antennas.

<For 5GHz Band>

For Band 1/2

For IEEE 802.11a/n/ac/ax mode <4TX/4RX>:

Ant.5 (Port 1), Ant.6 (Port 2), Ant.7 (Port 3) and Ant.8 (Port 4) will transmit/receive the same signal simultaneously.

Ant.5 (Port 1), Ant.6 (Port 2), Ant.7 (Port 3) and Ant.8 (Port 4) can be used as transmitting/receiving antennas.

For Band 3/4

For IEEE 802.11a/n/ac/ax mode <4TX/4RX>:

Ant.1 (Port 4), Ant.2 (Port 3), Ant.3 (Port 2) and Ant.4 (Port 1) will transmit/receive the same signal simultaneously.

Ant.1 (Port 4), Ant.2 (Port 3), Ant.3 (Port 2) and Ant.4 (Port 1) can be used as transmitting/receiving antennas.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ac VHT20-BF	0.903	0.443	1.948m	1k
802.11ac VHT40-BF	0.923	0.348	2.79m	1k
802.11ac HE20,BF	0.903	0.443	1.499m	1k
802.11ac HE40,BF	0.915	0.386	2.79m	1k

**1.1.4 EUT Operational Condition**

EUT Power Type	From power adapter		
Beamforming Function	☒ With beamforming	☐ Without beamforming	
	The product has beamforming function for 802.11n/ac/ax.		
Function	☒ Point-to-multipoint	☐ Point-to-point	
Test Software Version	accessMTool_3_0_0_5		

1.1.5 Table for Multiple Listing

1. The EUT has two model names which are identical to each other in all aspects except for the following table:

Model Name	Description
RT-AX95U	All the models are identical, the different model names served as marketing strategy.
GT-AX11000	

From the above models, model: RT-AX95U was selected as representative model for the test and its data was recorded in this report.

2. There are two EUT, the detail information as following:

EUT	SKU	LAN Transformer	
		Brand Name	P/N
1	1	SWAPnet	NS777203*2
		SWAPnet	NS771802*1
2	2	Mingtek	HN8011VG*2
		Mingtek	HN18101DG*1

Note: Only SKU1 was selected to test.



1.1.6 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR812227AA

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. Changing the model name to "GT-AX11000" from "RT-AX11000".	It does not need to test.
2. Adding 802.11ac (VHT160) function. 3. Adding 5GHz band 2 and band 3 (5250~5350 MHz, 5470~5725 MHz) for this device.	There's no influence in this test report.
4. Adding beamforming function for 802.11n/ac/ax in 2.4GHz.	1. DTS Bandwidth. 2. Maximum Conducted Output Power. 3. Power Spectral Density. 4. Emissions in Non-restricted Frequency Bands. 5. Emissions in Restricted Frequency Bands Above 1GHz.



1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 558074 D01 v04
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location				
☐	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.	TEL : 886-3-327-3456	FAX : 886-3-318-0055
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.	TEL : 886-3-656-9065	FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Paul Chen, Serway Li	20°C / 50%	Jan. 18, 2018~Mar. 07, 2018
Radiated	03CH01-CB	Lance Hsieh, Nyle Chang	20°C / 50%	Jan. 19, 2018~Feb. 06, 2018

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74×10^{-8}	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
2412MHz	75
2417MHz	84
2422MHz	87
2427MHz	87
2437MHz	87
2447MHz	87
2452MHz	87
2457MHz	77
2462MHz	62
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
2422MHz	64
2427MHz	66
2432MHz	67
2437MHz	67
2447MHz	67
2452MHz	55
802.11ax HE20,BF_Nss1,(MCS0)_4TX	-
2412MHz	77
2417MHz	83
2422MHz	85
2427MHz	85
2437MHz	85
2452MHz	85
2457MHz	79
2462MHz	66
802.11ax HE40,BF_Nss1,(MCS0)_4TX	-
2422MHz	61
2427MHz	72
2432MHz	71
2437MHz	76
2442MHz	73
2447MHz	66
2452MHz	70

**Note:**

- ♦ There are two modes of EUT for 802.11n/ac/ax. One is beamforming mode, and the other is non-beamforming mode. Both modes have been tested and recorded in this test report.
- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.

2.2 The Worst Case Measurement Configuration

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode > 1GHz	CTX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz band 1, 2 + WLAN 5GHz band 3, 4
Refer to Sporton Test Report No.: FA812227-01 for Co-location RF Exposure Evaluation.	

Note: The EUT only be used at Z axis.

2.3 EUT Operation during Test

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under Telnet.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.



2.4 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	Type	Rating
Adapter 1	DELTA	ADP-65DW B	-	INPUT: 100-240V~50-60Hz, 1.5A OUTPUT: 19V, 3.42A
Adapter 2	DELTA	ADP-65DW Y	-	INPUT: 100-240V~50-60Hz, 1.5A OUTPUT: 19V, 3.42A
Adapter 3	PI	AD2087320	010-1LF	INPUT: 100-240V~50/60Hz, 1.5A OUTPUT: 19V, 3.42A
Other				
RJ-45 cable: Shielded, 1.5m				

Note: Adapter does not affect the radio tests; there is only adapter 3 tested and recorded in this report.

2.5 Support Equipment

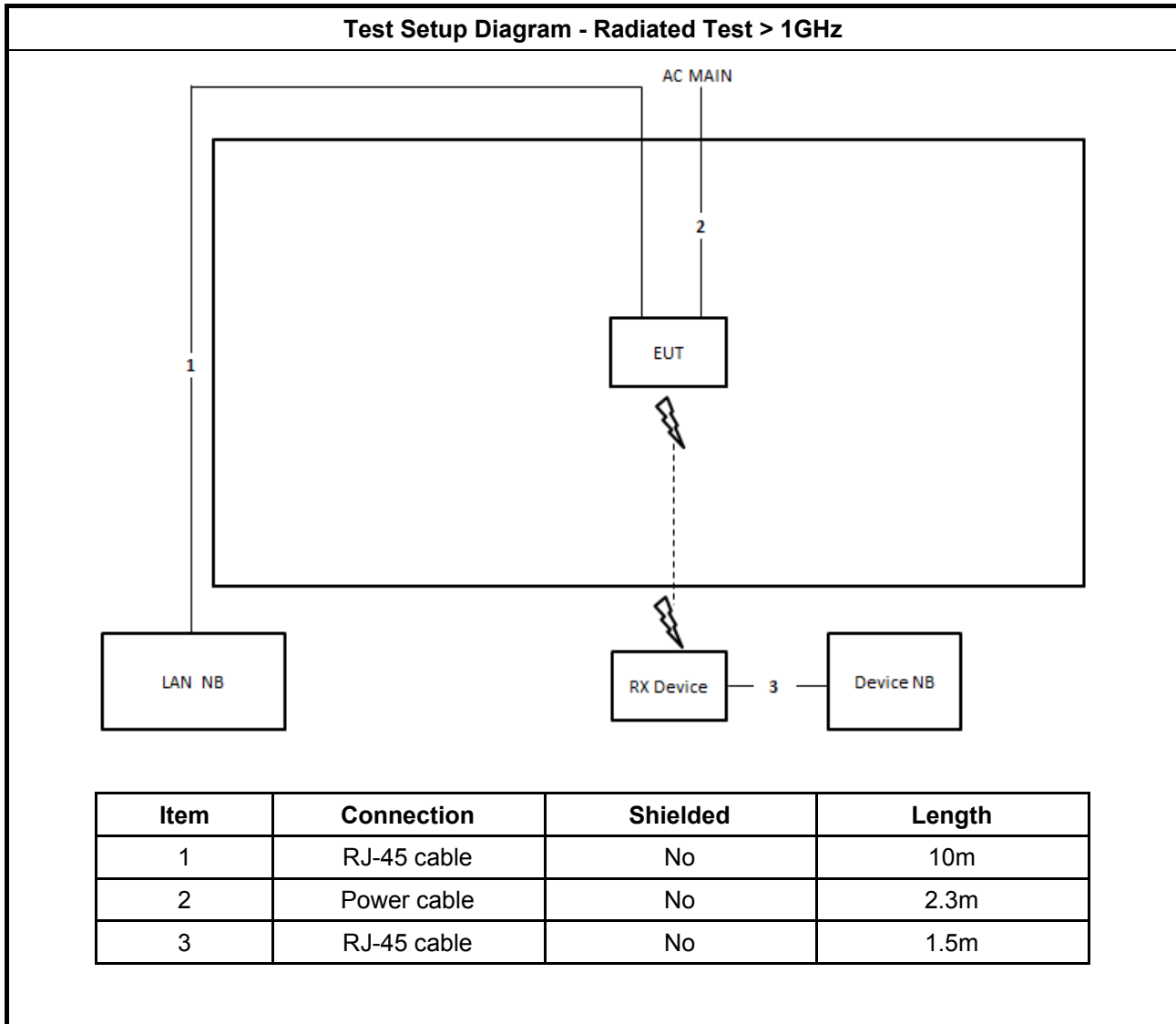
For Test Site No: 03CH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E4300	DoC
2	Notebook	DELL	E4300	DoC
3	RX Device	AVAGO	43684MCH5	N/A

For Test Site No: TH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E4300	DoC

2.6 Test Setup Diagram



3 Transmitter Test Result

3.1 DTS Bandwidth

3.1.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
6 dB bandwidth $\geq$ 500 kHz.

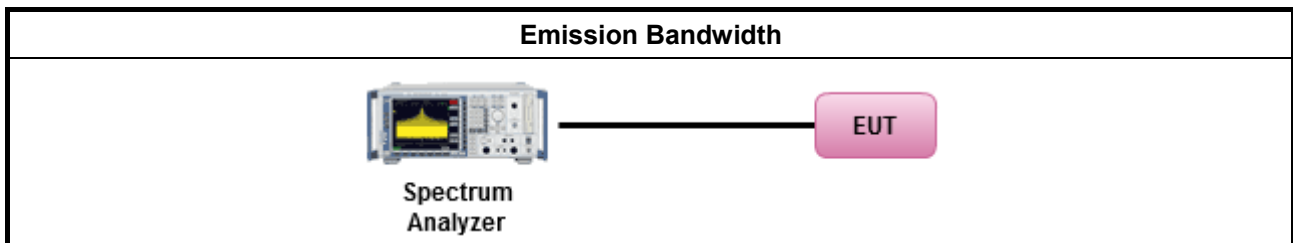
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 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.	

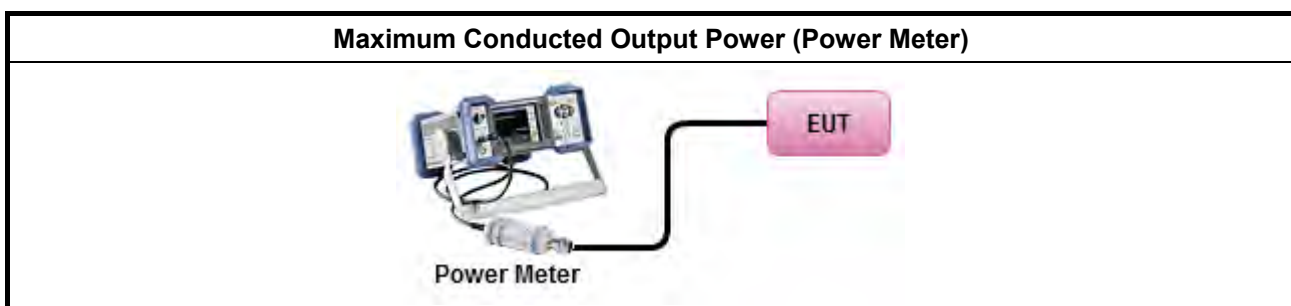
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 9.1.3 (peak power meter for VBW ≥ DTS BW)
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
☐	Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
☐	Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
Measurement using a power meter (PM)	
☒	Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM (using an RF average power meter).
☐	Refer as FCC KDB 558074, clause 9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B



3.3 Power Spectral Density

3.3.1 Power Spectral Density Limit

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

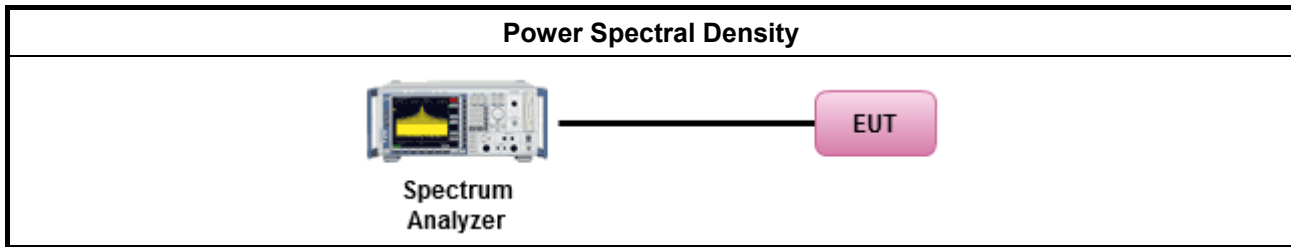
3.3.2 Measuring Instruments

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

3.3.3 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 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak). [duty cycle $\geq 98\%$ or external video / power trigger]
☐	Refer as FCC KDB 558074, clause 10.3 Method AVGPS-1 (spectral trace averaging).
☐	Refer as FCC KDB 558074, clause 10.4 Method AVGPS-2 (slow sweep speed) duty cycle $< 98\%$ and average over on/off periods with duty factor
☐	Refer as FCC KDB 558074, clause 10.5 Method AVGPS-1 Alt (spectral trace averaging).
☐	Refer as FCC KDB 558074, clause 10.6 Method AVGPS-2 Alt. (slow sweep speed)
▪ 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.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Refer as Appendix C

3.4 Emissions in Non-restricted Frequency Bands

3.4.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
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.	

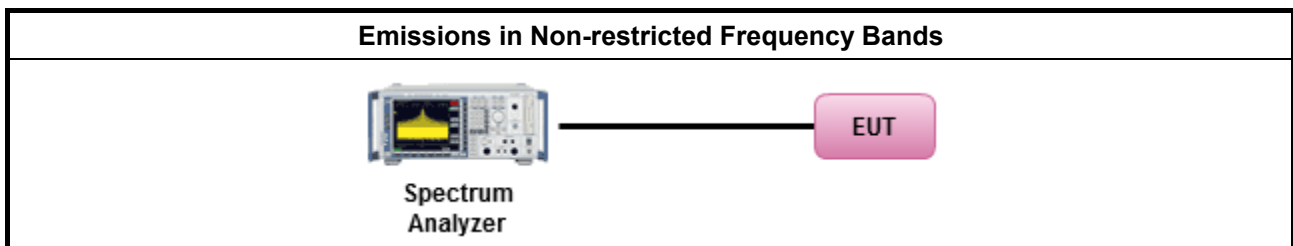
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.

3.4.4 Test Setup



3.4.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D

3.5 Emissions in Restricted Frequency Bands

3.5.1 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.

3.5.2 Measuring Instruments

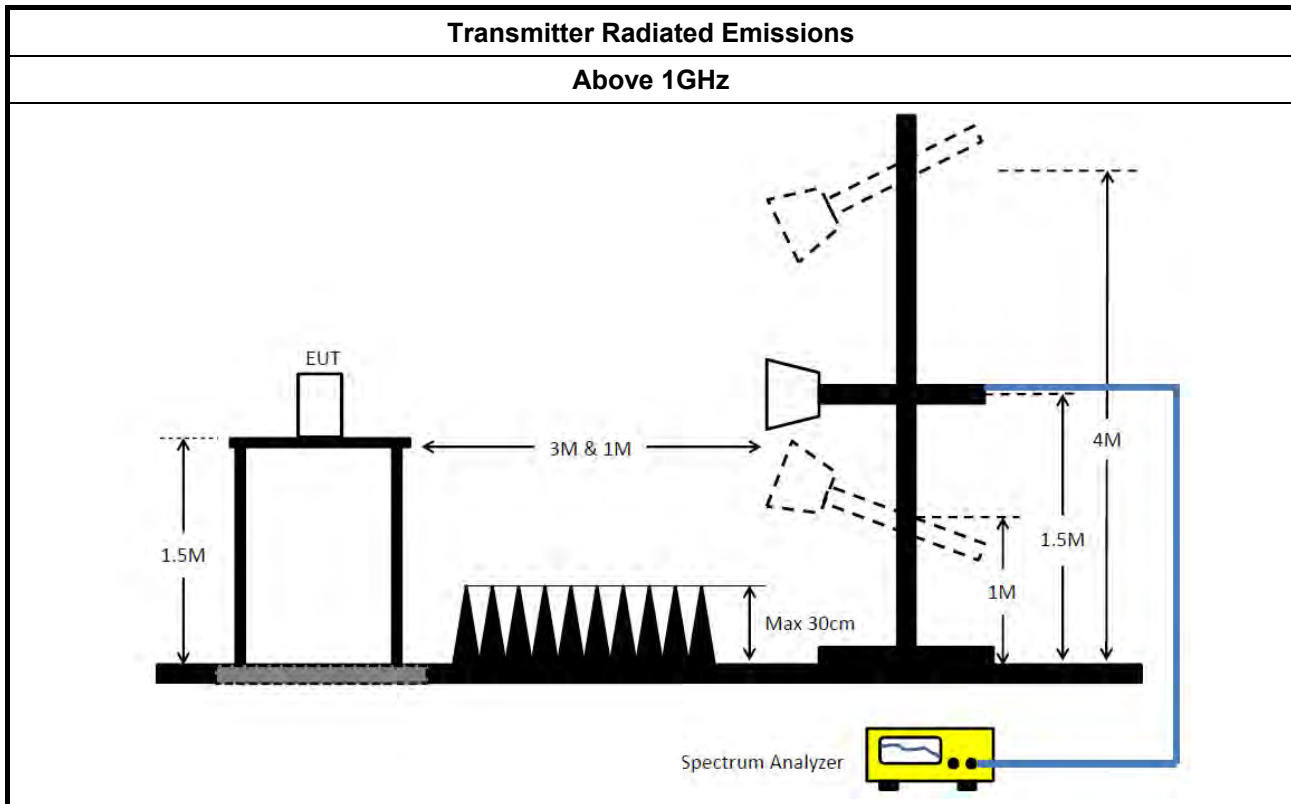
Refer a test equipment and calibration data table in this test report.



3.5.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.9.2.2 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 12 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$)
	☐ Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 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 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 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
▪ For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 12.2.2.	
	▪ 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.

3.5.4 Test Setup



3.5.5 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 09, 2018	Jan. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	Conducted (TH01-CB)

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	17.575M	17.791M	17M8D1D	16.925M	17.691M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	36.35M	36.332M	36M3D1D	34.75M	35.982M
HE20,BF_Nss1,(MCS0)_4TX	19M	19.015M	19M0D1D	18.3M	18.916M
HE40,BF_Nss1,(MCS0)_4TX	37.55M	37.681M	37M7D1D	35.05M	37.231M

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

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

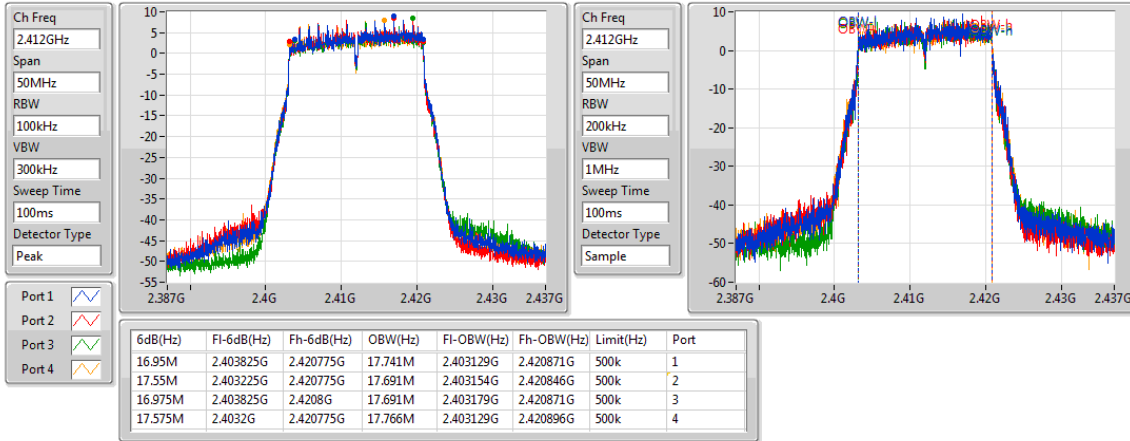
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.95M	17.741M	17.55M	17.691M	16.975M	17.691M	17.575M	17.766M
2437MHz	Pass	500k	17.575M	17.791M	17.575M	17.766M	17.575M	17.766M	17.275M	17.741M
2462MHz	Pass	500k	17.575M	17.691M	17.175M	17.766M	16.925M	17.741M	17.575M	17.791M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	34.75M	36.082M	35.1M	36.032M	34.95M	35.982M	36M	36.132M
2437MHz	Pass	500k	36.35M	36.232M	35.95M	36.332M	36.35M	36.282M	35.65M	36.082M
2452MHz	Pass	500k	36.3M	36.282M	36.35M	36.182M	36.35M	36.282M	36.3M	36.282M
HE20,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.85M	18.991M	18.3M	18.916M	18.475M	18.916M	18.325M	18.941M
2437MHz	Pass	500k	18.7M	18.941M	18.975M	18.966M	18.85M	19.015M	18.95M	18.966M
2462MHz	Pass	500k	19M	18.991M	18.875M	18.941M	18.575M	18.966M	18.475M	18.941M
HE40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	36.05M	37.431M	35.05M	37.231M	36.3M	37.281M	35.1M	37.431M
2437MHz	Pass	500k	36.2M	37.481M	37.5M	37.631M	37.15M	37.631M	37.55M	37.581M
2452MHz	Pass	500k	37.3M	37.681M	36.75M	37.581M	36.7M	37.581M	37.4M	37.631M

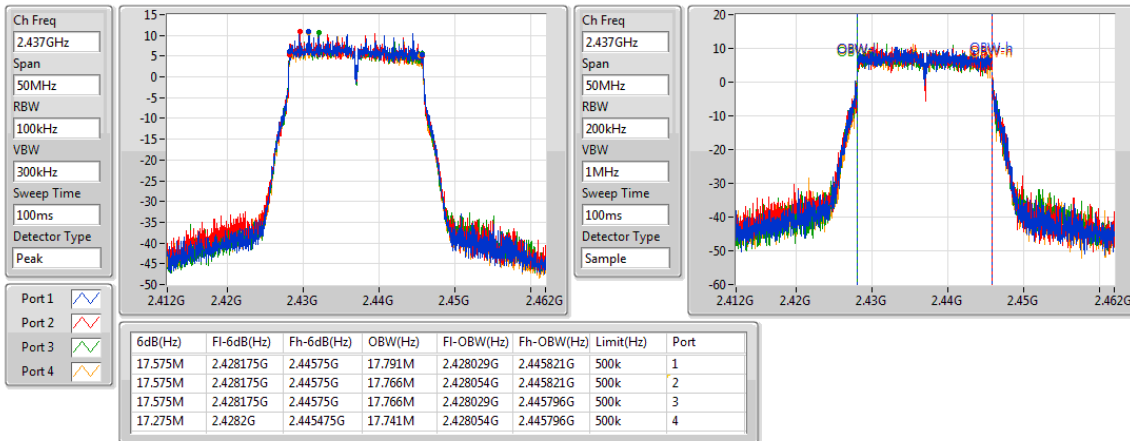
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
2412MHz

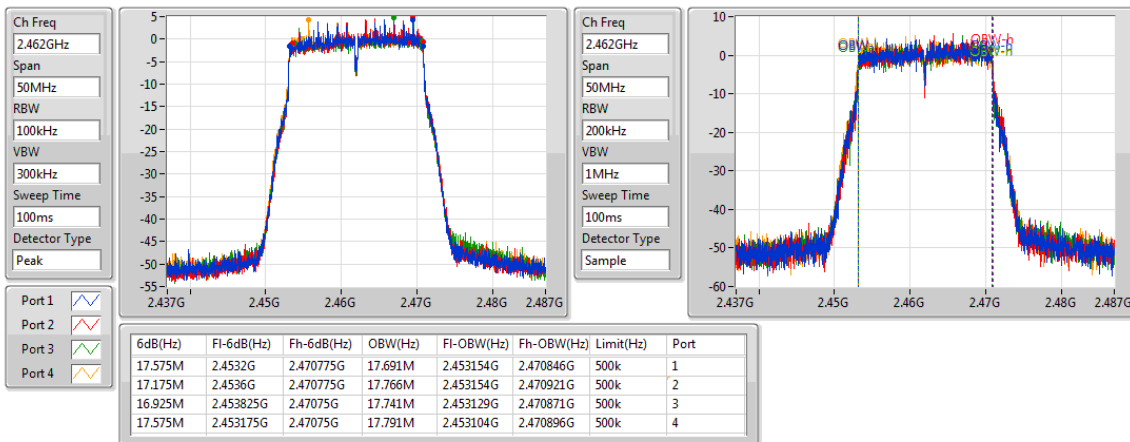
03/03/2018


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
2437MHz

03/03/2018

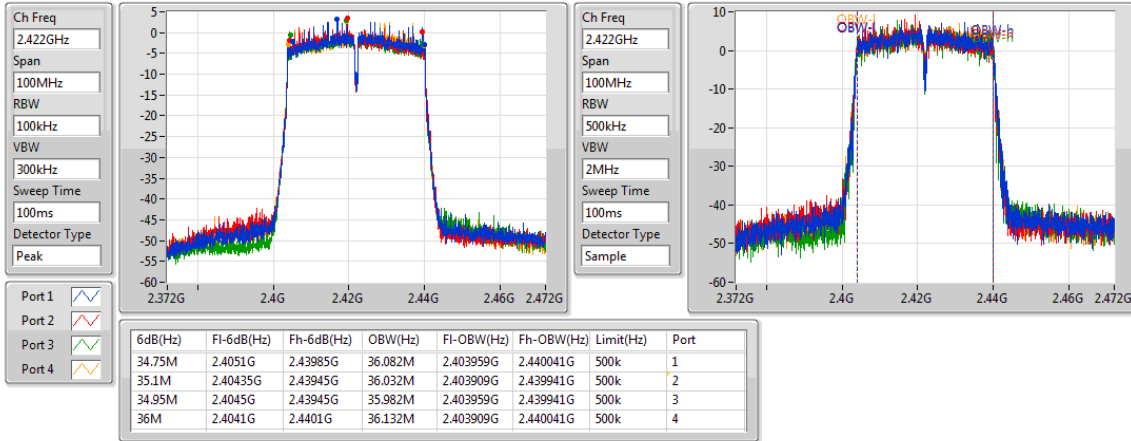

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
2462MHz

03/03/2018

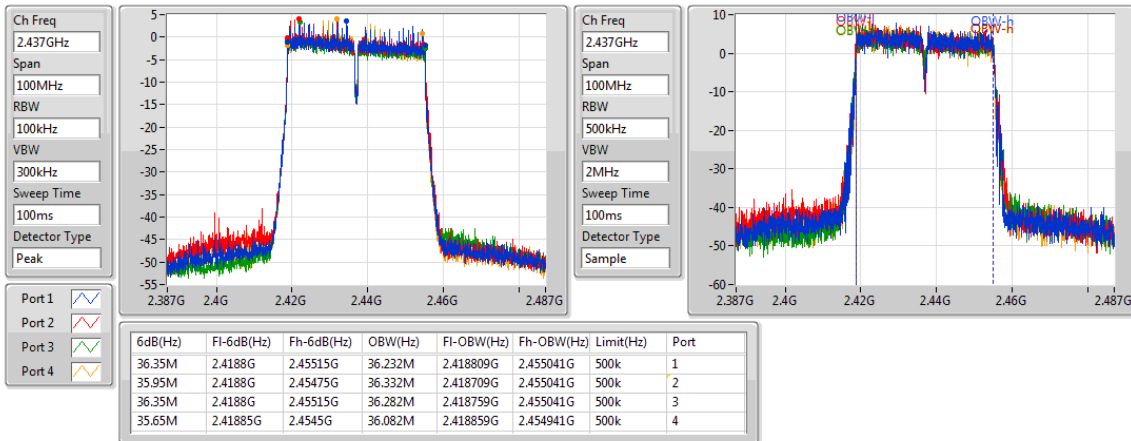


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
2422MHz

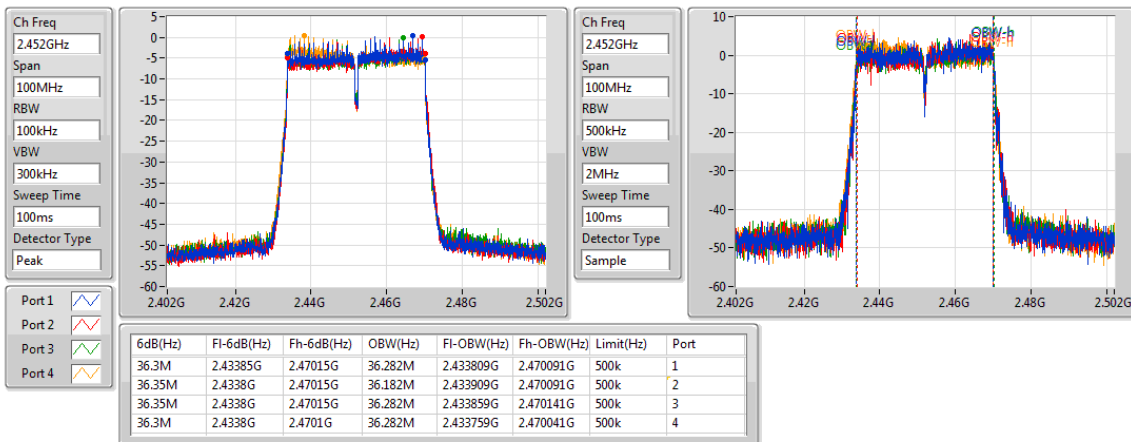
03/03/2018


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
2437MHz

03/03/2018

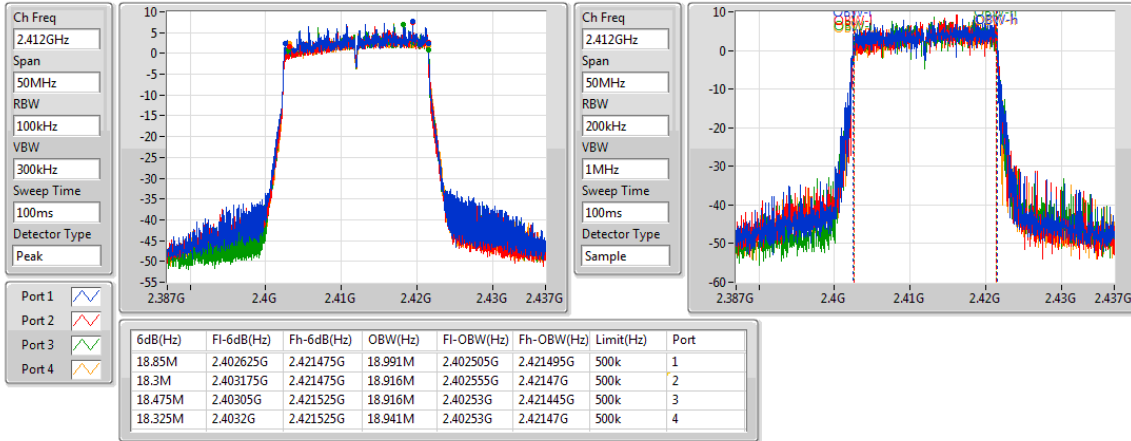

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
2452MHz

03/03/2018

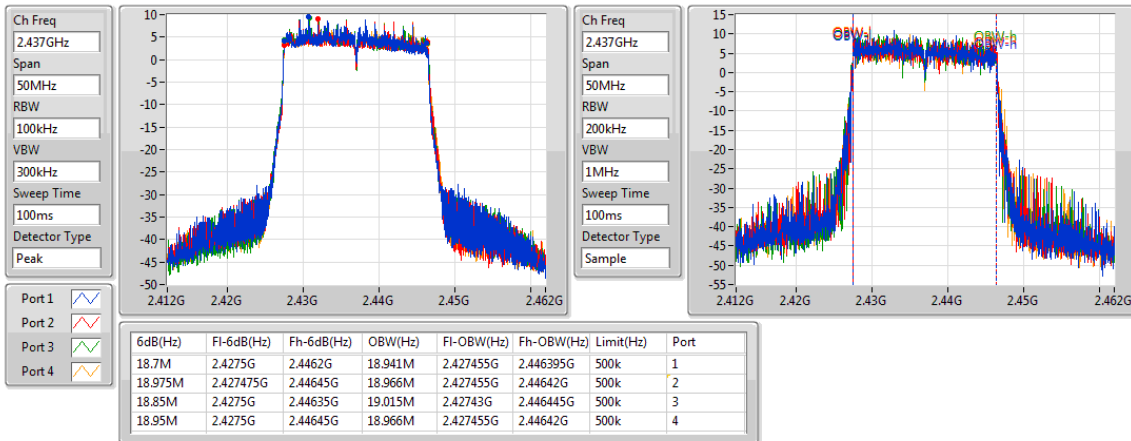


HE20,BF_Nss1,(MCS0)_4TX
EBW
2412MHz

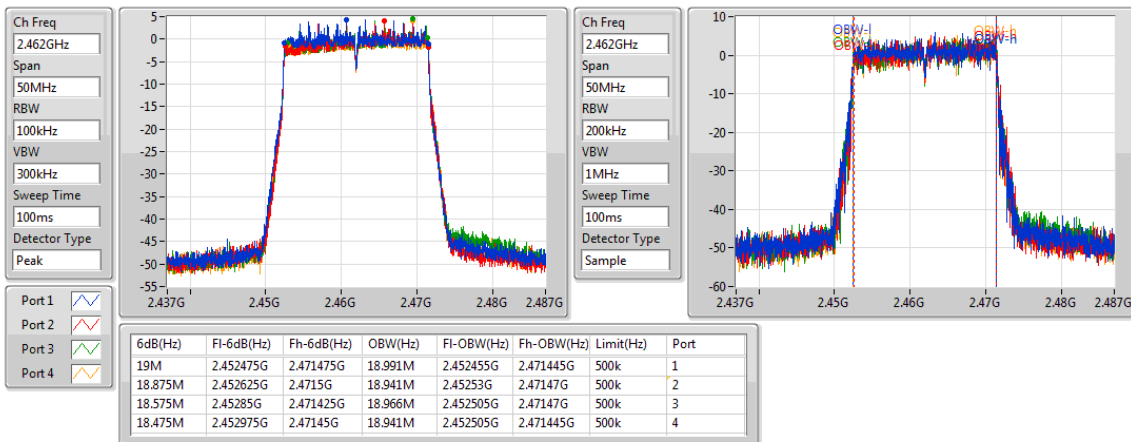
03/03/2018


HE20,BF_Nss1,(MCS0)_4TX
EBW
2437MHz

03/03/2018

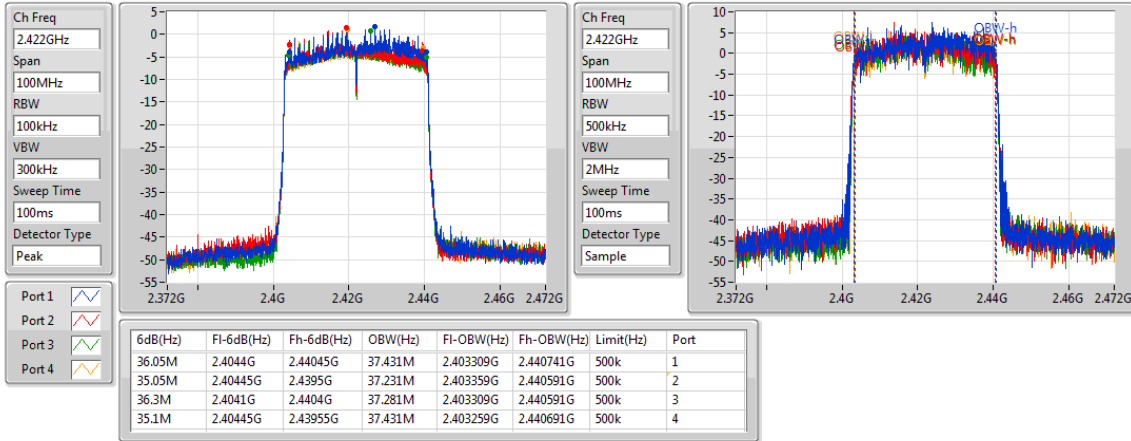

HE20,BF_Nss1,(MCS0)_4TX
EBW
2462MHz

03/03/2018

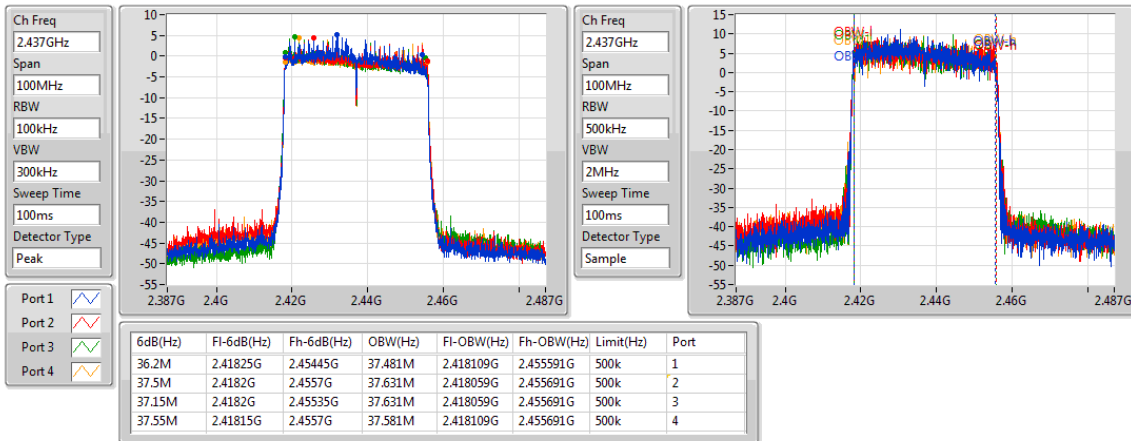


HE40,BF_Nss1,(MCS0)_4TX
EBW
2422MHz

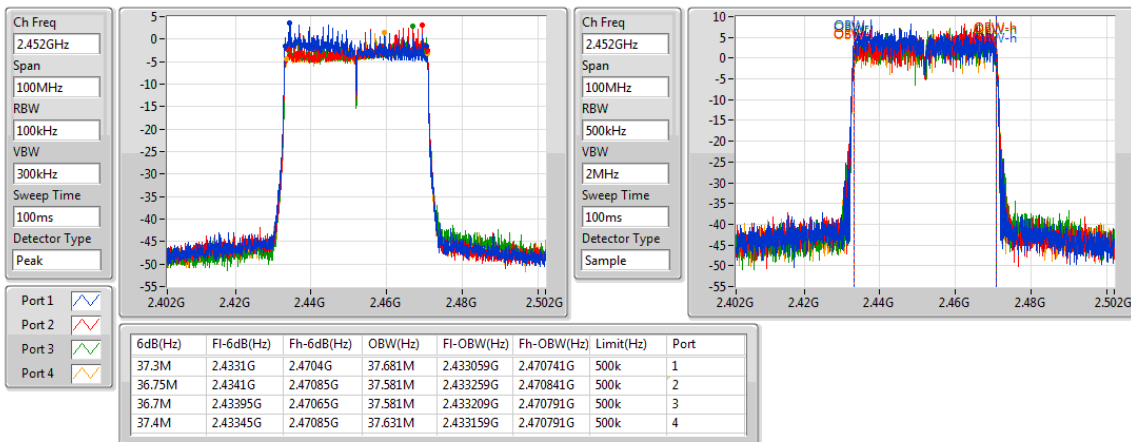
03/03/2018


HE40,BF_Nss1,(MCS0)_4TX
EBW
2437MHz

03/03/2018


HE40,BF_Nss1,(MCS0)_4TX
EBW
2452MHz

03/03/2018





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	28.00	0.63096
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	23.07	0.20277
HE20,BF_Nss1,(MCS0)_4TX	27.95	0.62373
HE40,BF_Nss1,(MCS0)_4TX	25.71	0.37239

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.92	19.40	19.46	19.12	19.11	25.30	28.08
2437MHz	Pass	7.92	22.13	21.96	21.79	21.59	27.89	28.08
2462MHz	Pass	7.92	15.69	15.77	15.47	15.72	21.68	28.08
2417MHz	Pass	7.92	21.72	21.32	21.28	21.49	27.48	28.08
2422MHz	Pass	7.92	22.25	22.00	21.88	21.77	28.00	28.08
2427MHz	Pass	7.92	22.07	21.84	21.86	21.63	27.87	28.08
2447MHz	Pass	7.92	22.15	21.95	21.86	21.34	27.86	28.08
2452MHz	Pass	7.92	21.50	22.24	21.97	21.50	27.83	28.08
2457MHz	Pass	7.92	19.76	19.53	19.15	19.15	25.43	28.08
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	7.92	16.45	16.42	16.13	16.65	22.44	28.08
2437MHz	Pass	7.92	17.11	17.27	16.57	17.23	23.07	28.08
2452MHz	Pass	7.92	14.00	13.63	13.51	14.45	19.93	28.08
2427MHz	Pass	7.92	17.01	16.76	16.37	17.22	22.87	28.08
2432MHz	Pass	7.92	16.88	17.18	16.54	17.24	22.99	28.08
2447MHz	Pass	7.92	17.08	16.78	16.63	17.07	22.91	28.08
HE20,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.92	20.43	19.98	19.98	19.90	26.10	28.08
2437MHz	Pass	7.92	22.13	21.85	21.87	21.88	27.95	28.08
2462MHz	Pass	7.92	17.39	17.07	16.97	16.82	23.09	28.08
2417MHz	Pass	7.92	21.68	21.52	21.44	21.44	27.54	28.08
2422MHz	Pass	7.92	22.16	21.73	21.81	21.71	27.88	28.08
2427MHz	Pass	7.92	22.34	21.75	21.65	21.63	27.87	28.08
2452MHz	Pass	7.92	21.85	21.70	21.81	21.92	27.84	28.08
2457MHz	Pass	7.92	20.29	20.32	20.31	20.14	26.29	28.08
HE40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	7.92	16.66	15.80	15.76	15.63	22.00	28.08
2437MHz	Pass	7.92	19.83	19.78	19.43	19.69	25.71	28.08
2452MHz	Pass	7.92	18.40	17.88	17.77	17.73	23.97	28.08
2427MHz	Pass	7.92	19.02	18.68	18.45	18.59	24.71	28.08
2432MHz	Pass	7.92	19.01	18.53	18.13	18.01	24.46	28.08
2442MHz	Pass	7.92	19.23	19.19	18.85	18.85	25.05	28.08
2447MHz	Pass	7.92	17.69	17.27	16.91	16.90	23.23	28.08

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	1.65
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-3.73
HE20,BF_Nss1,(MCS0)_4TX	1.66
HE40,BF_Nss1,(MCS0)_4TX	-4.50

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.92	-6.18	-5.65	-6.31	-6.71	-0.49	6.08
2437MHz	Pass	7.92	-3.13	-3.62	-3.64	-4.29	1.65	6.08
2462MHz	Pass	7.92	-9.22	-9.94	-9.82	-9.68	-4.29	6.08
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	7.92	-11.21	-10.16	-10.99	-10.39	-5.22	6.08
2437MHz	Pass	7.92	-10.45	-9.26	-9.47	-8.61	-3.73	6.08
2452MHz	Pass	7.92	-13.13	-14.06	-14.88	-12.03	-7.53	6.08
HE20,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.92	-6.59	-6.81	-6.78	-6.90	-1.32	6.08
2437MHz	Pass	7.92	-3.06	-5.63	-3.83	-4.43	1.66	6.08
2462MHz	Pass	7.92	-9.40	-9.37	-10.10	-9.66	-3.60	6.08
HE40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	7.92	-13.13	-13.20	-12.95	-13.38	-7.14	6.08
2437MHz	Pass	7.92	-9.08	-10.37	-10.33	-10.57	-4.50	6.08
2452MHz	Pass	7.92	-11.80	-12.41	-12.79	-12.52	-7.01	6.08

DG = Directional Gain; RBW=3kHz;

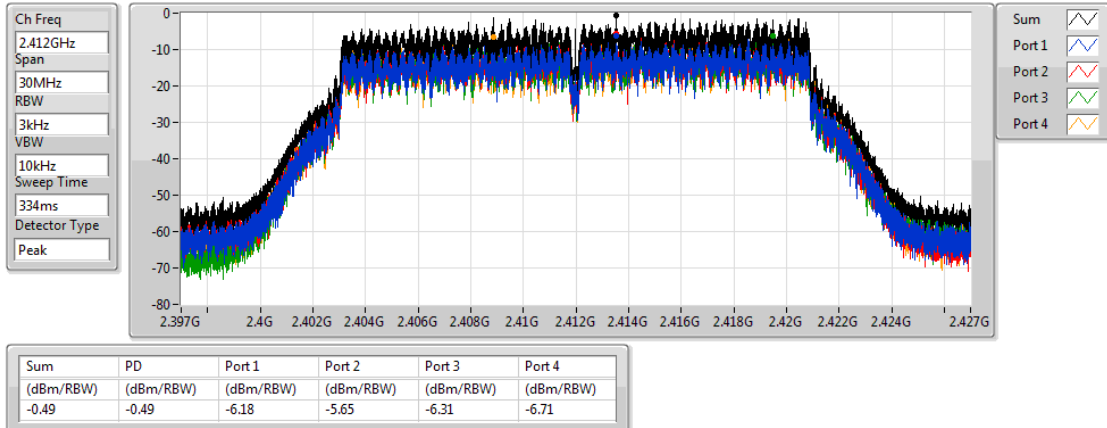
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

2412MHz

03/03/2018

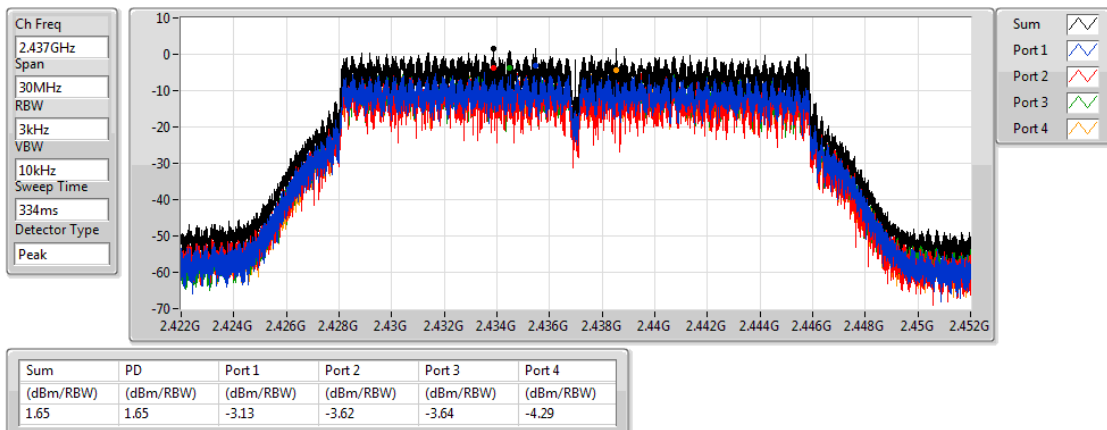


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

2437MHz

03/03/2018

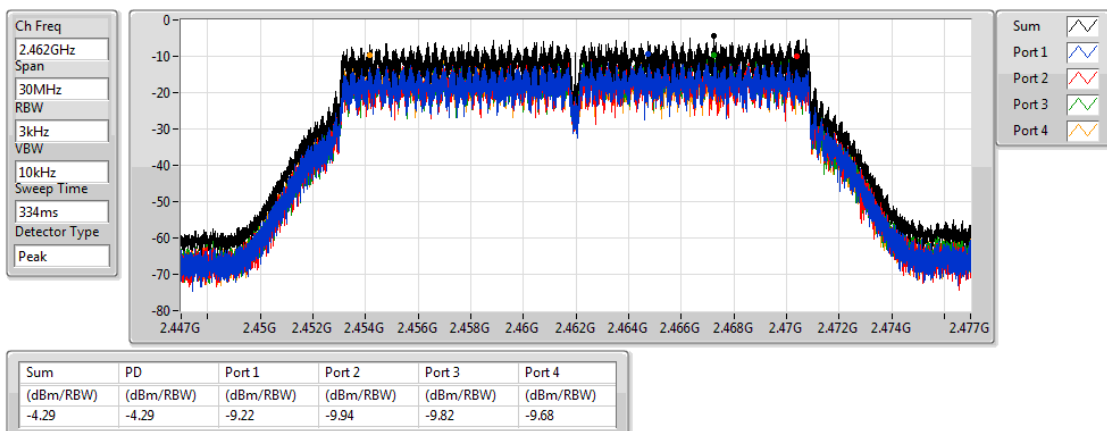


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

2462MHz

03/03/2018

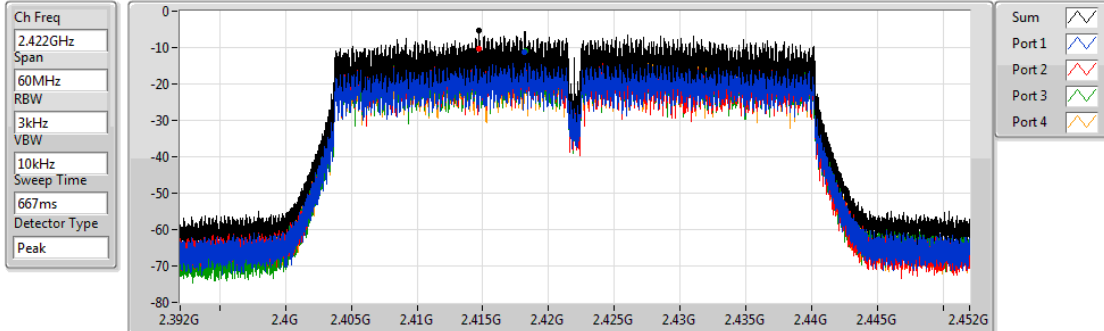


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

2422MHz

03/03/2018



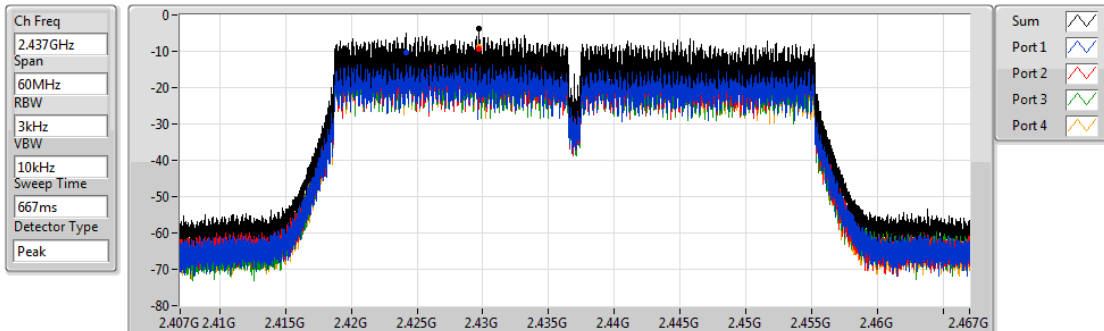
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-5.22	-5.22	-11.21	-10.16	-10.99	-10.39

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

2437MHz

03/03/2018



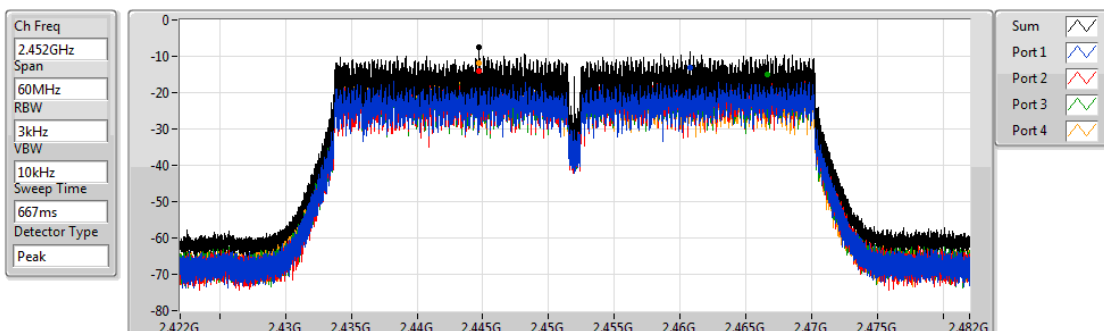
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-3.73	-3.73	-10.45	-9.26	-9.47	-8.61

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

2452MHz

03/03/2018



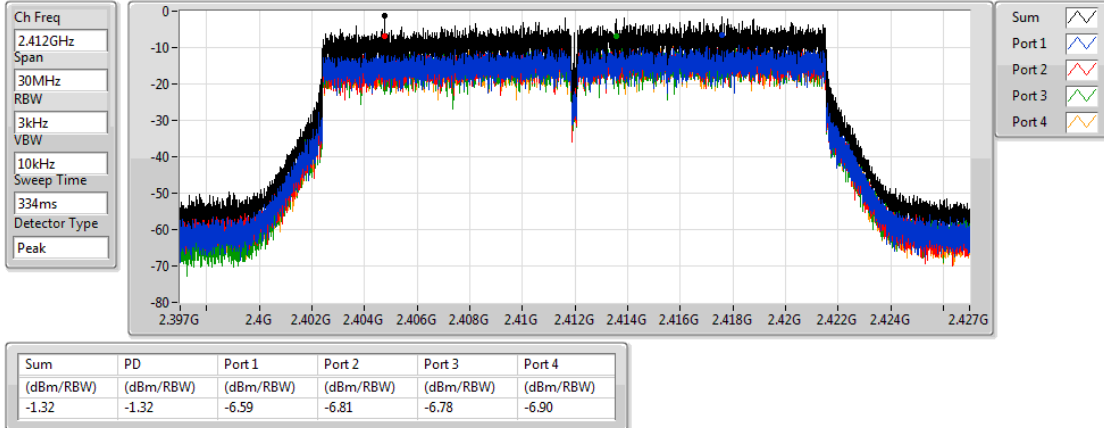
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.53	-7.53	-13.13	-14.06	-14.88	-12.03

HE20,BF_Nss1,(MCS0)_4TX

2412MHz

PSD

03/03/2018



HE20,BF_Nss1,(MCS0)_4TX

2437MHz

PSD

03/03/2018

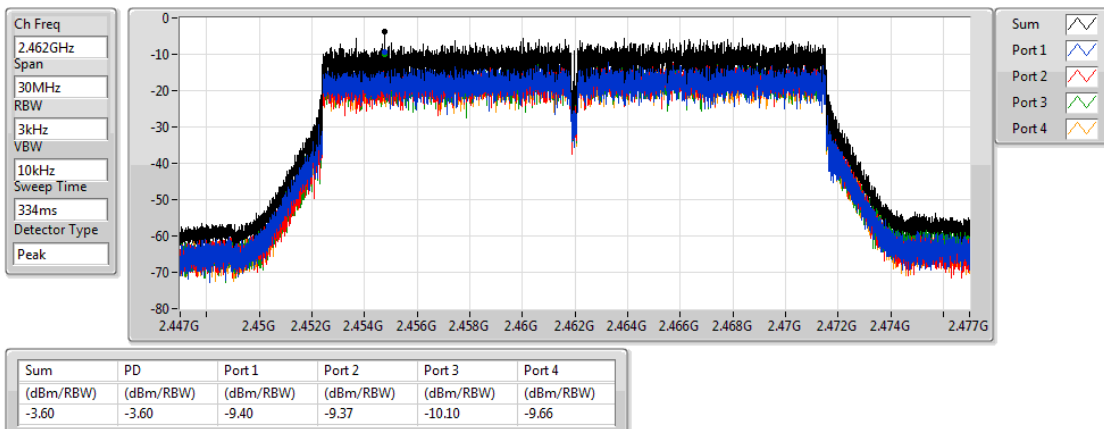


HE20,BF_Nss1,(MCS0)_4TX

2462MHz

PSD

03/03/2018

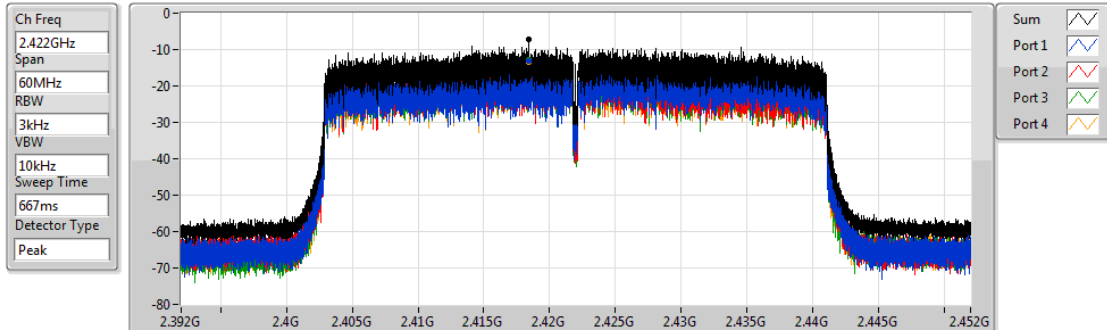


HE40,BF_Nss1,(MCS0)_4TX

PSD

2422MHz

03/03/2018



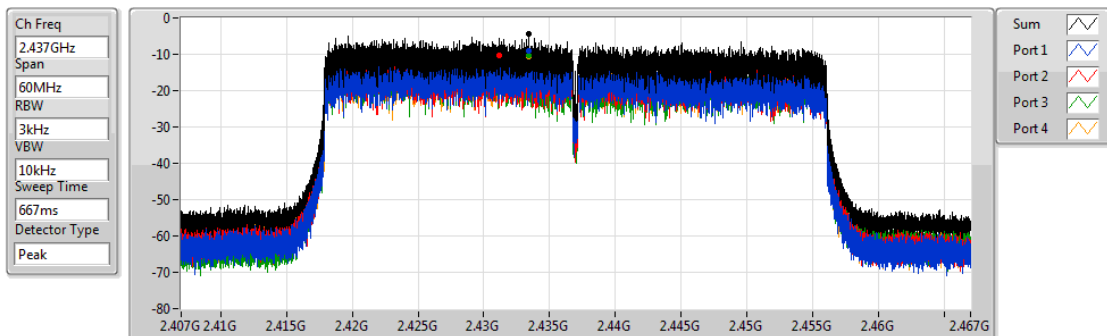
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.14	-7.14	-13.13	-13.20	-12.95	-13.38

HE40,BF_Nss1,(MCS0)_4TX

PSD

2437MHz

03/03/2018



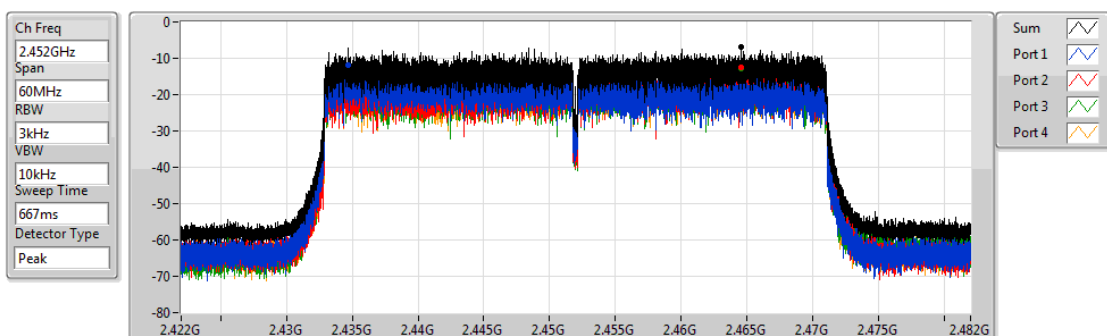
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.50	-4.50	-9.08	-10.37	-10.33	-10.57

HE40,BF_Nss1,(MCS0)_4TX

PSD

2452MHz

03/03/2018



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.01	-7.01	-11.80	-12.41	-12.79	-12.52



CSE Non-restricted Band Result

Appendix D

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)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	Pass	2.430728G	11.14	-18.86	525.125M	-56.76	2.39944G	-37.87	2.4883G	-52.43	24.820188G	-52.42	2
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	Pass	2.421877G	4.02	-25.98	530.365M	-56.37	2.39952G	-40.76	2.48398G	-48.54	16.395602G	-52.24	2
HE20,BF_Nss1,(MCS0)_4TX	Pass	2.429392G	8.34	-21.66	539.105M	-56.39	2.3988G	-35.55	2.48838G	-52.45	7.243565G	-40.94	1
HE40,BF_Nss1,(MCS0)_4TX	Pass	2.421877G	4.69	-25.31	943.71M	-57.60	2.39952G	-37.14	2.49134G	-46.81	24.338123G	-51.49	2

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.430728G	11.14	-18.86	543.765M	-55.43	2.39984G	-38.18	2.48982G	-51.95	15.335105G	-52.32	1
2412MHz	Pass	2.430728G	11.14	-18.86	525.125M	-56.76	2.39944G	-37.87	2.4883G	-52.43	24.820188G	-52.42	2
2412MHz	Pass	2.430728G	11.14	-18.86	539.105M	-55.14	2.39992G	-40.22	2.48598G	-52.99	16.790458G	-51.56	3
2412MHz	Pass	2.430728G	11.14	-18.86	515.805M	-55.80	2.39992G	-39.76	2.48806G	-51.93	21.434665G	-51.83	4
2437MHz	Pass	2.430728G	11.14	-18.86	528.62M	-56.51	2.39976G	-47.17	2.48438G	-46.17	24.755568G	-52.47	1
2437MHz	Pass	2.430728G	11.14	-18.86	512.31M	-56.49	2.39752G	-47.29	2.48566G	-46.42	16.773601G	-52.81	2
2437MHz	Pass	2.430728G	11.14	-18.86	498.33M	-57.20	2.39464G	-47.70	2.48526G	-47.59	24.089702G	-52.69	3
2437MHz	Pass	2.430728G	11.14	-18.86	528.62M	-58.29	2.39464G	-45.70	2.48622G	-47.20	21.887005G	-52.98	4
2462MHz	Pass	2.430728G	11.14	-18.86	516.97M	-56.52	2.39944G	-54.13	2.4839G	-50.55	21.889814G	-52.69	1
2462MHz	Pass	2.430728G	11.14	-18.86	554.25M	-56.80	2.39848G	-55.54	2.4839G	-50.75	21.409379G	-52.53	2
2462MHz	Pass	2.430728G	11.14	-18.86	507.65M	-56.33	2.39936G	-55.22	2.48358G	-50.14	16.335309G	-52.60	3
2462MHz	Pass	2.430728G	11.14	-18.86	536.775M	-57.66	2.39704G	-52.48	2.48446G	-49.65	16.686505G	-52.47	4
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.421877G	4.02	-25.98	524.64M	-55.53	2.39648G	-46.21	2.4939G	-51.56	21.505515G	-52.15	1
2422MHz	Pass	2.421877G	4.02	-25.98	528.075M	-57.01	2.39584G	-44.18	2.4939G	-51.52	16.799459G	-52.84	2
2422MHz	Pass	2.421877G	4.02	-25.98	496.015M	-57.47	2.39984G	-47.45	2.48654G	-52.71	24.876599G	-52.97	3
2422MHz	Pass	2.421877G	4.02	-25.98	544.105M	-57.19	2.39984G	-44.80	2.4843G	-50.91	24.792462G	-52.95	4
2437MHz	Pass	2.421877G	4.02	-25.98	545.25M	-56.22	2.39952G	-44.66	2.48414G	-49.61	16.364752G	-51.69	1
2437MHz	Pass	2.421877G	4.02	-25.98	530.365M	-56.37	2.39952G	-40.76	2.48398G	-48.54	16.395602G	-52.24	2
2437MHz	Pass	2.421877G	4.02	-25.98	520.06M	-56.07	2.392G	-49.98	2.48622G	-49.96	21.822431G	-52.54	3
2437MHz	Pass	2.421877G	4.02	-25.98	533.8M	-57.28	2.39952G	-44.84	2.48382G	-49.63	16.956515G	-52.89	4
2452MHz	Pass	2.421877G	4.02	-25.98	513.19M	-56.82	2.39936G	-55.73	2.48542G	-50.49	23.132161G	-51.39	1
2452MHz	Pass	2.421877G	4.02	-25.98	496.015M	-57.82	2.39952G	-54.64	2.4843G	-49.46	16.911642G	-51.48	2
2452MHz	Pass	2.421877G	4.02	-25.98	496.015M	-57.29	2.39488G	-52.66	2.48942G	-48.79	24.110954G	-53.07	3
2452MHz	Pass	2.421877G	4.02	-25.98	542.96M	-57.28	2.39328G	-52.37	2.48942G	-48.92	21.651352G	-53.39	4
HE20,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.429392G	8.34	-21.66	539.105M	-56.39	2.3988G	-35.55	2.48838G	-52.45	7.243565G	-40.94	1
2412MHz	Pass	2.429392G	8.34	-21.66	506.485M	-57.34	2.39888G	-36.39	2.4879G	-51.69	7.243565G	-40.25	2
2412MHz	Pass	2.429392G	8.34	-21.66	824.53M	-56.58	2.39984G	-37.51	2.49286G	-53.54	7.237946G	-41.64	3
2412MHz	Pass	2.429392G	8.34	-21.66	816.375M	-57.62	2.3996G	-37.17	2.4855G	-50.88	7.235136G	-40.67	4
2437MHz	Pass	2.429392G	8.34	-21.66	532.115M	-54.08	2.39632G	-47.72	2.48358G	-47.53	24.575756G	-51.81	1
2437MHz	Pass	2.429392G	8.34	-21.66	793.075M	-56.19	2.39648G	-49.15	2.48446G	-46.65	16.3325G	-51.18	2
2437MHz	Pass	2.429392G	8.34	-21.66	532.115M	-55.31	2.39168G	-49.33	2.48406G	-48.15	17.67828G	-51.17	3
2437MHz	Pass	2.429392G	8.34	-21.66	542.6M	-56.73	2.3988G	-48.64	2.4863G	-48.31	17.3608G	-51.35	4
2462MHz	Pass	2.429392G	8.34	-21.66	548.425M	-56.28	2.39888G	-53.36	2.4843G	-48.99	24.005415G	-51.16	1
2462MHz	Pass	2.429392G	8.34	-21.66	508.815M	-54.96	2.39512G	-53.50	2.48366G	-48.66	24.325705G	-51.00	2
2462MHz	Pass	2.429392G	8.34	-21.66	506.485M	-54.96	2.39808G	-53.82	2.48486G	-48.63	24.030701G	-50.73	3
2462MHz	Pass	2.429392G	8.34	-21.66	520.465M	-55.82	2.39048G	-55.45	2.4843G	-49.58	16.385881G	-51.11	4
HE40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-



CSE Non-restricted Band Result

Appendix D

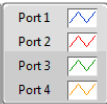
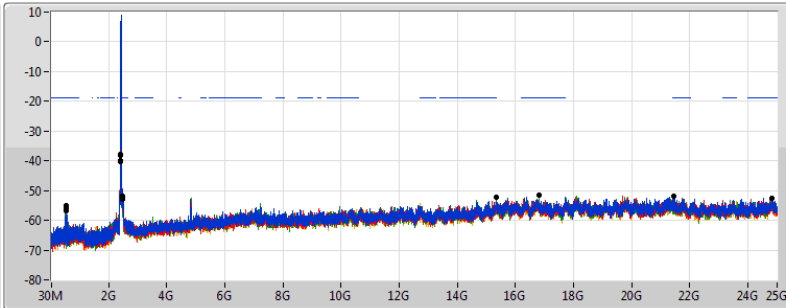
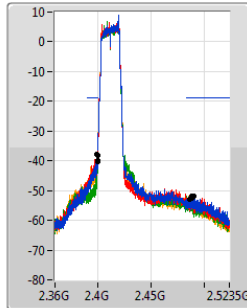
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2422MHz	Pass	2.421877G	4.69	-25.31	321.975M	-56.56	2.39712G	-46.05	2.4843G	-51.76	7.249924G	-49.73	1
2422MHz	Pass	2.421877G	4.69	-25.31	761.655M	-57.15	2.39808G	-45.52	2.49102G	-51.27	7.249924G	-48.80	2
2422MHz	Pass	2.421877G	4.69	-25.31	520.06M	-57.09	2.39776G	-51.39	2.48398G	-53.00	7.247119G	-50.90	3
2422MHz	Pass	2.421877G	4.69	-25.31	507.465M	-56.32	2.39888G	-47.32	2.49358G	-52.09	7.249924G	-51.37	4
2437MHz	Pass	2.421877G	4.69	-25.31	558.99M	-55.17	2.39952G	-44.19	2.48398G	-48.84	24.497983G	-51.16	1
2437MHz	Pass	2.421877G	4.69	-25.31	943.71M	-57.60	2.39952G	-37.14	2.49134G	-46.81	24.338123G	-51.49	2
2437MHz	Pass	2.421877G	4.69	-25.31	2.305115G	-56.57	2.39616G	-48.37	2.48734G	-46.42	24.988782G	-51.29	3
2437MHz	Pass	2.421877G	4.69	-25.31	552.12M	-56.21	2.3984G	-42.74	2.49166G	-46.93	24.725153G	-50.85	4
2452MHz	Pass	2.421877G	4.69	-25.31	555.555M	-56.82	2.39824G	-48.55	2.48398G	-45.51	17.032238G	-51.65	1
2452MHz	Pass	2.421877G	4.69	-25.31	718.145M	-57.40	2.39968G	-50.51	2.48926G	-46.66	24.744785G	-51.43	2
2452MHz	Pass	2.421877G	4.69	-25.31	532.655M	-55.93	2.39168G	-51.69	2.48814G	-42.44	17.133202G	-51.44	3
2452MHz	Pass	2.421877G	4.69	-25.31	883.025M	-56.86	2.39472G	-51.21	2.48446G	-43.75	16.350729G	-50.99	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

CSE NdB

2412MHz

03/03/2018



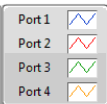
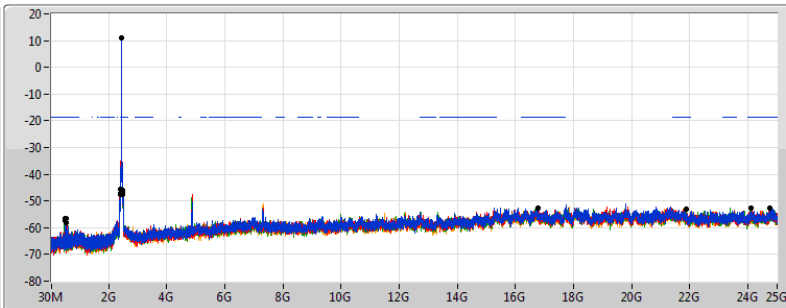
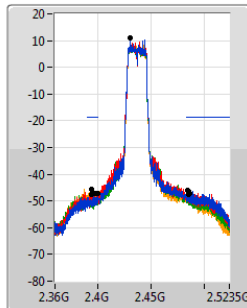
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.430728G	11.14	-18.86	543.765M	-55.43	2.39984G	-38.18	2.48982G	-51.95	15.335105G	-52.32	1
2.430728G	11.14	-18.86	525.125M	-56.76	2.39944G	-37.87	2.4883G	-52.43	24.820188G	-52.42	2
2.430728G	11.14	-18.86	539.105M	-55.14	2.39992G	-40.22	2.48598G	-52.99	16.790458G	-51.56	3
2.430728G	11.14	-18.86	515.805M	-55.80	2.39992G	-39.76	2.48806G	-51.93	21.434665G	-51.83	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

CSE NdB

2437MHz

03/03/2018



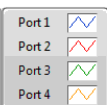
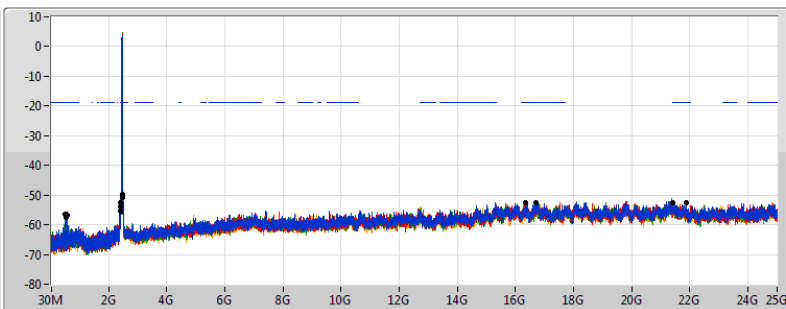
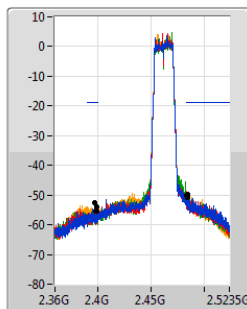
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2.430728G	11.14	-18.86	528.62M	-56.51	2.39976G	-47.17	2.48438G	-46.17	24.755568G	-52.47	1
2.430728G	11.14	-18.86	512.31M	-56.49	2.39752G	-47.29	2.48566G	-46.42	16.773601G	-52.81	2
2.430728G	11.14	-18.86	498.33M	-57.20	2.39464G	-47.70	2.48526G	-47.59	24.089702G	-52.69	3
2.430728G	11.14	-18.86	528.62M	-58.29	2.39464G	-45.70	2.48622G	-47.20	21.887005G	-52.98	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

CSE NdB

2462MHz

03/03/2018



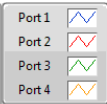
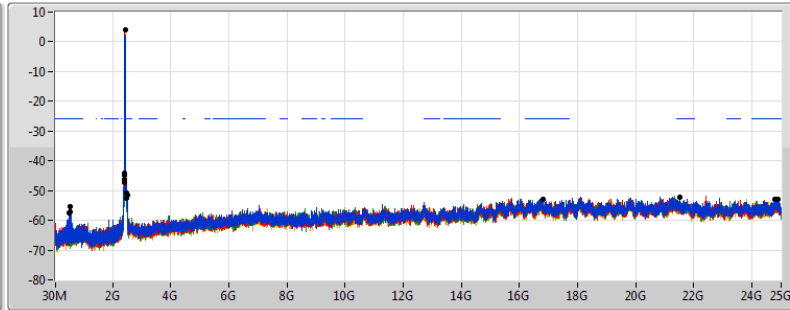
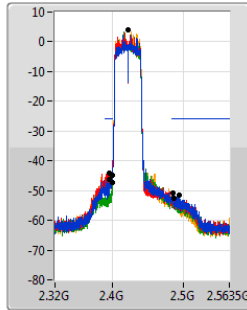
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.430728G	11.14	-18.86	516.97M	-56.52	2.39944G	-54.13	2.4839G	-50.55	21.889814G	-52.69	1
2.430728G	11.14	-18.86	554.25M	-56.80	2.39848G	-55.54	2.4839G	-50.75	21.409379G	-52.53	2
2.430728G	11.14	-18.86	507.65M	-56.33	2.39936G	-55.22	2.48358G	-50.14	16.335309G	-52.60	3
2.430728G	11.14	-18.86	536.775M	-57.66	2.39704G	-52.48	2.48446G	-49.65	16.686505G	-52.47	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

CSE NdB

2422MHz

03/03/2018



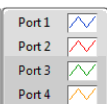
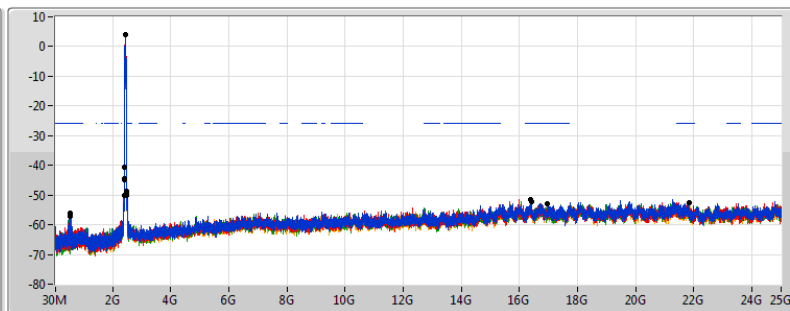
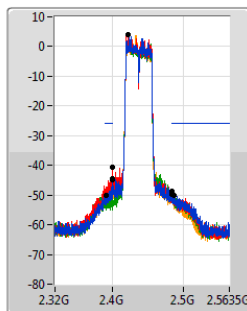
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.421877G	4.02	-25.98	524.64M	-55.53	2.39648G	-46.21	2.4939G	-51.56	21.505515G	-52.15	1
2.421877G	4.02	-25.98	528.075M	-57.01	2.39584G	-44.18	2.4939G	-51.52	16.799459G	-52.84	2
2.421877G	4.02	-25.98	496.015M	-57.47	2.39984G	-47.45	2.48654G	-52.71	24.876599G	-52.97	3
2.421877G	4.02	-25.98	544.105M	-57.19	2.39984G	-44.80	2.4843G	-50.91	24.792462G	-52.95	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

CSE NdB

2437MHz

03/03/2018



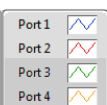
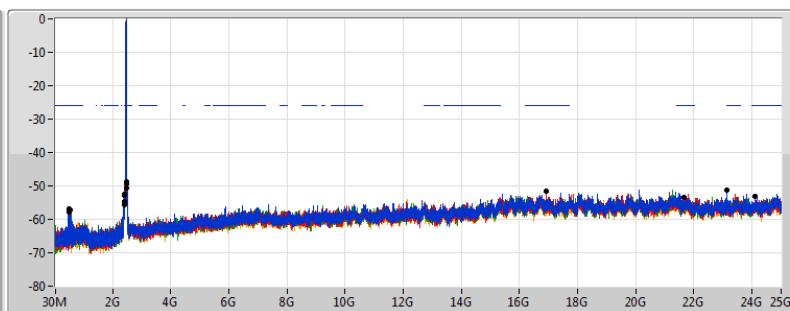
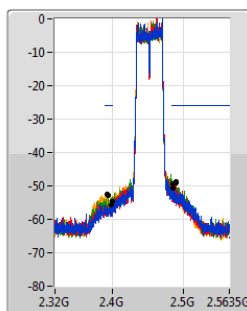
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.421877G	4.02	-25.98	545.25M	-56.22	2.39952G	-44.66	2.48414G	-49.61	16.364752G	-51.69	1
2.421877G	4.02	-25.98	530.365M	-56.37	2.39952G	-40.76	2.48398G	-48.54	16.395602G	-52.24	2
2.421877G	4.02	-25.98	520.06M	-56.07	2.392G	-49.98	2.48622G	-49.96	21.822431G	-52.54	3
2.421877G	4.02	-25.98	533.8M	-57.28	2.39952G	-44.84	2.48382G	-49.63	16.956515G	-52.89	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

CSE NdB

2452MHz

03/03/2018



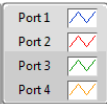
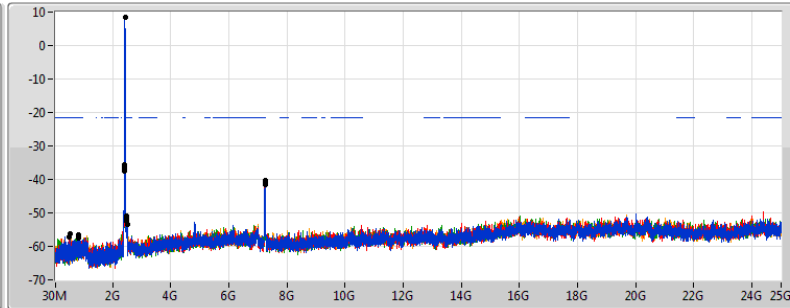
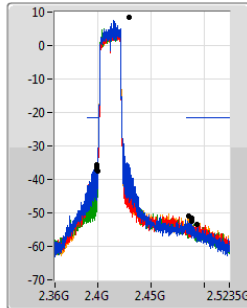
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.421877G	4.02	-25.98	513.19M	-56.82	2.39936G	-55.73	2.48542G	-50.49	23.132161G	-51.39	1
2.421877G	4.02	-25.98	496.015M	-57.82	2.39952G	-54.64	2.4843G	-49.46	16.911642G	-51.48	2
2.421877G	4.02	-25.98	496.015M	-57.29	2.39488G	-52.66	2.48942G	-48.79	24.110954G	-53.07	3
2.421877G	4.02	-25.98	542.96M	-57.28	2.39328G	-52.37	2.48942G	-48.92	21.651352G	-53.39	4

HE20,BF_Nss1,(MCS0)_4TX

CSE NdB

2412MHz

03/03/2018



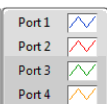
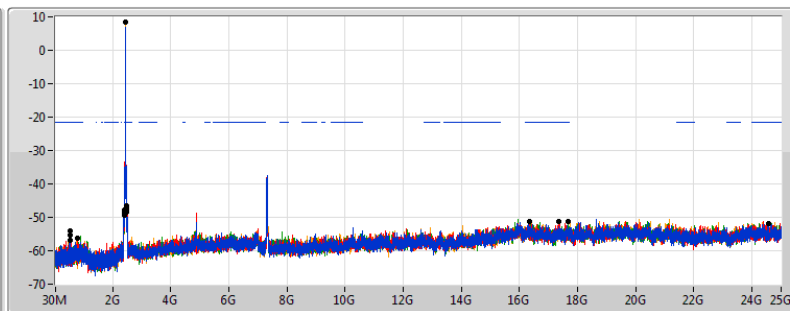
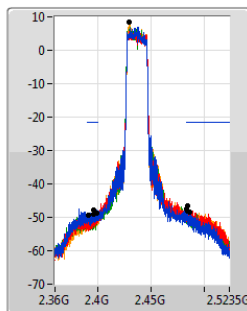
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.429392G	8.34	-21.66	539.105M	-56.39	2.3988G	-35.55	2.48838G	-52.45	7.243565G	-40.94	1
2.429392G	8.34	-21.66	506.485M	-57.34	2.39888G	-36.39	2.4879G	-51.69	7.243565G	-40.25	2
2.429392G	8.34	-21.66	824.53M	-56.58	2.39984G	-37.51	2.49286G	-53.54	7.237946G	-41.64	3
2.429392G	8.34	-21.66	816.375M	-57.62	2.3996G	-37.17	2.4855G	-50.88	7.235136G	-40.67	4

HE20,BF_Nss1,(MCS0)_4TX

CSE NdB

2437MHz

03/03/2018



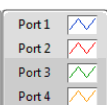
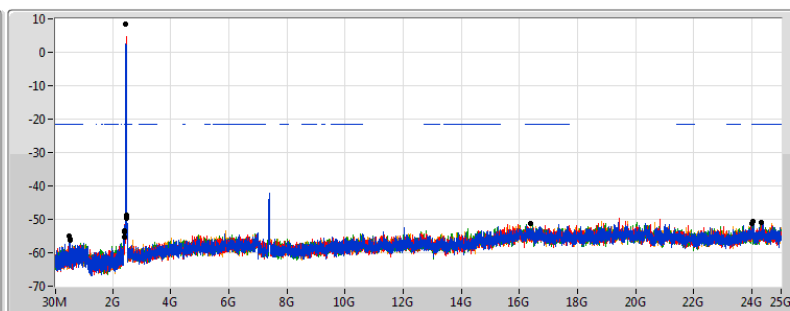
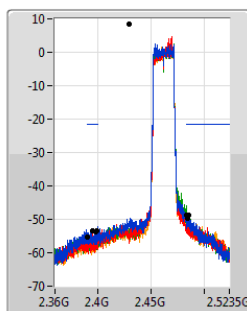
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.429392G	8.34	-21.66	532.115M	-54.08	2.39632G	-47.72	2.48358G	-47.53	24.575756G	-51.81	1
2.429392G	8.34	-21.66	793.075M	-56.19	2.39648G	-49.15	2.48446G	-46.65	16.3325G	-51.18	2
2.429392G	8.34	-21.66	532.115M	-55.31	2.39168G	-49.33	2.48406G	-48.15	17.67828G	-51.17	3
2.429392G	8.34	-21.66	542.6M	-56.73	2.3988G	-48.64	2.4863G	-48.31	17.3608G	-51.35	4

HE20,BF_Nss1,(MCS0)_4TX

CSE NdB

2462MHz

03/03/2018



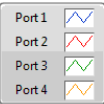
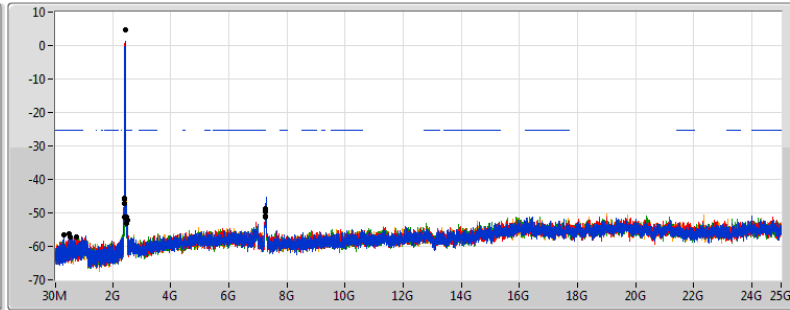
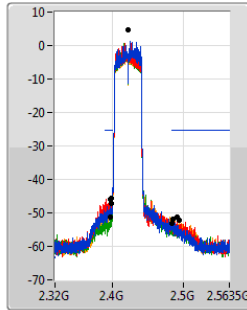
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.429392G	8.34	-21.66	548.425M	-56.28	2.39888G	-53.36	2.4843G	-48.99	24.005415G	-51.16	1
2.429392G	8.34	-21.66	508.815M	-54.96	2.39512G	-53.50	2.48366G	-48.66	24.325705G	-51.00	2
2.429392G	8.34	-21.66	506.485M	-54.96	2.39808G	-53.82	2.48486G	-48.63	24.030701G	-50.73	3
2.429392G	8.34	-21.66	520.465M	-55.82	2.39048G	-55.45	2.4843G	-49.58	16.385881G	-51.11	4

HE40,BF_Nss1,(MCS0)_4TX

CSE NdB

2422MHz

03/03/2018



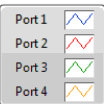
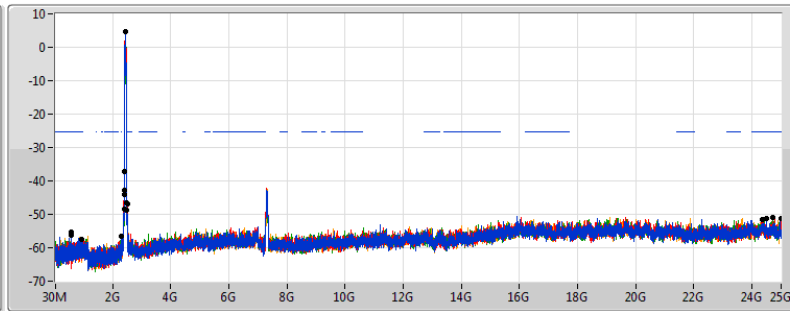
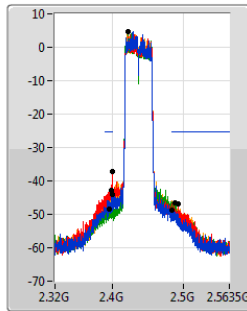
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.421877G	4.69	-25.31	321.975M	-56.56	2.39712G	-46.05	2.4843G	-51.76	7.249924G	-49.73	1
2.421877G	4.69	-25.31	761.655M	-57.15	2.39808G	-45.52	2.49102G	-51.27	7.249924G	-48.80	2
2.421877G	4.69	-25.31	520.06M	-57.09	2.39776G	-51.39	2.48398G	-53.00	7.247119G	-50.90	3
2.421877G	4.69	-25.31	507.465M	-56.32	2.39888G	-47.32	2.49358G	-52.09	7.249924G	-51.37	4

HE40,BF_Nss1,(MCS0)_4TX

CSE NdB

2437MHz

03/03/2018



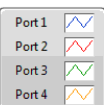
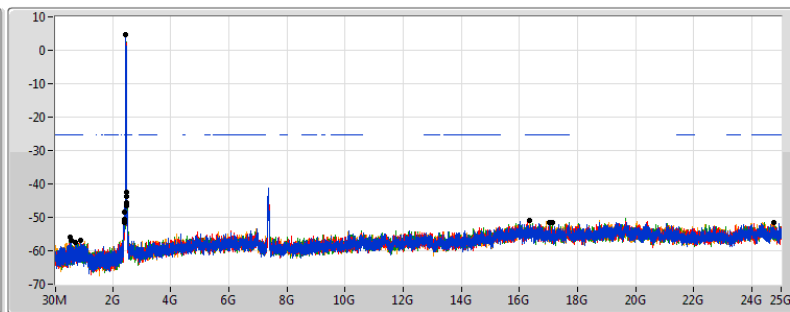
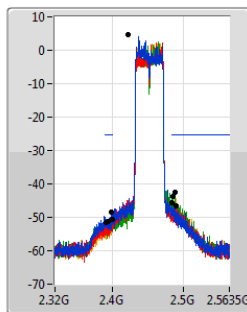
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.421877G	4.69	-25.31	558.99M	-55.17	2.39952G	-44.19	2.48398G	-48.84	24.497983G	-51.16	1
2.421877G	4.69	-25.31	943.71M	-57.60	2.39952G	-37.14	2.49134G	-46.81	24.338123G	-51.49	2
2.421877G	4.69	-25.31	2.305115G	-56.57	2.39616G	-48.37	2.48734G	-46.42	24.988782G	-51.29	3
2.421877G	4.69	-25.31	552.12M	-56.21	2.3984G	-42.74	2.49166G	-46.93	24.725153G	-50.85	4

HE40,BF_Nss1,(MCS0)_4TX

CSE NdB

2452MHz

03/03/2018



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.421877G	4.69	-25.31	555.555M	-56.82	2.39824G	-48.55	2.48398G	-45.51	17.032238G	-51.65	1
2.421877G	4.69	-25.31	718.145M	-57.40	2.39968G	-50.51	2.48926G	-46.66	24.744785G	-51.43	2
2.421877G	4.69	-25.31	532.655M	-55.93	2.39168G	-51.69	2.48814G	-42.44	17.133202G	-51.44	3
2.421877G	4.69	-25.31	883.025M	-56.86	2.39472G	-51.21	2.48446G	-43.75	16.350729G	-50.99	4

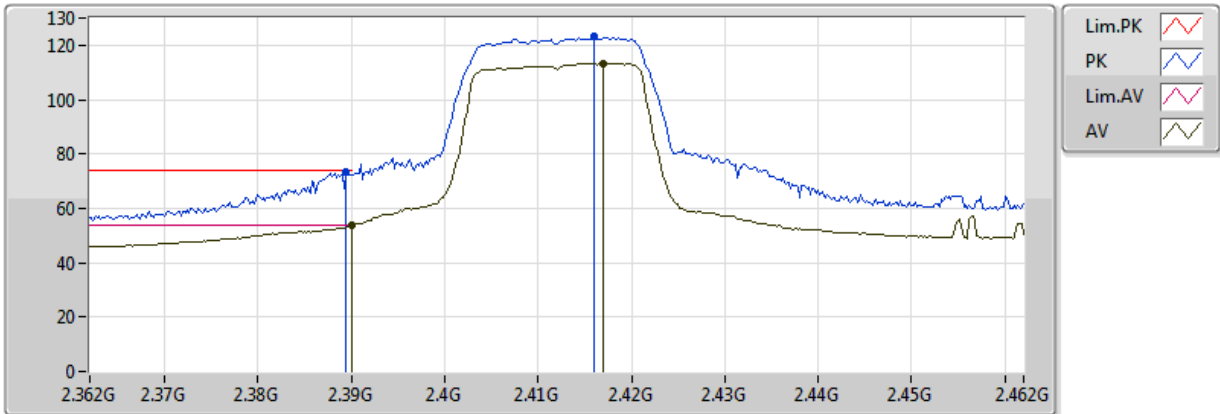
**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	Pass	AV	2.484G	53.99	54.00	-0.01	33.19	3	Vertical	36	1.87	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

13/02/2018



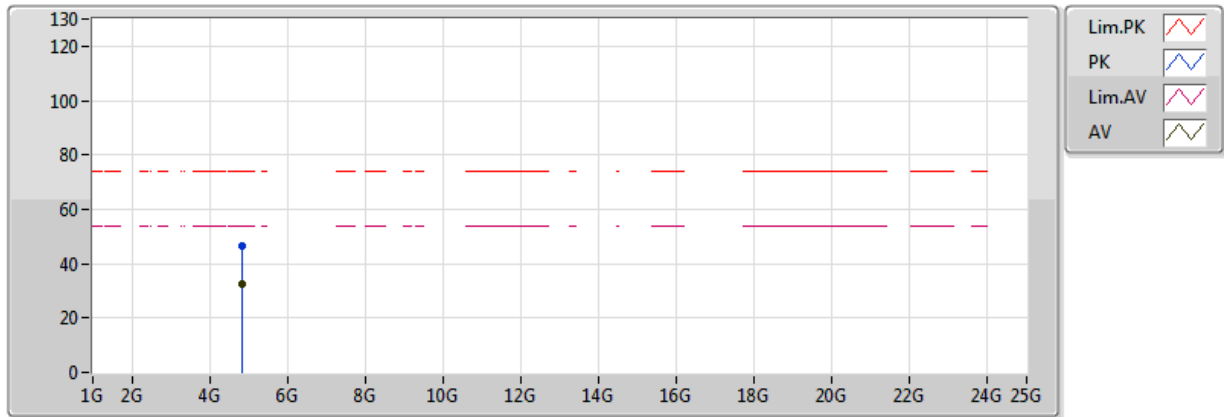
20180213
EUT_Z_4 TX_Dipole
Setting 75
03-L-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.39G	53.62	54.00	-0.38	33.16	3	Vertical	106	2.04					
AV	2.417G	113.35	Inf	-Inf	33.17	3	Vertical	106	2.04					
PK	2.3894G	73.14	74.00	-0.86	33.16	3	Vertical	106	2.04					
PK	2.416G	123.30	Inf	-Inf	33.17	3	Vertical	106	2.04					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

13/02/2018



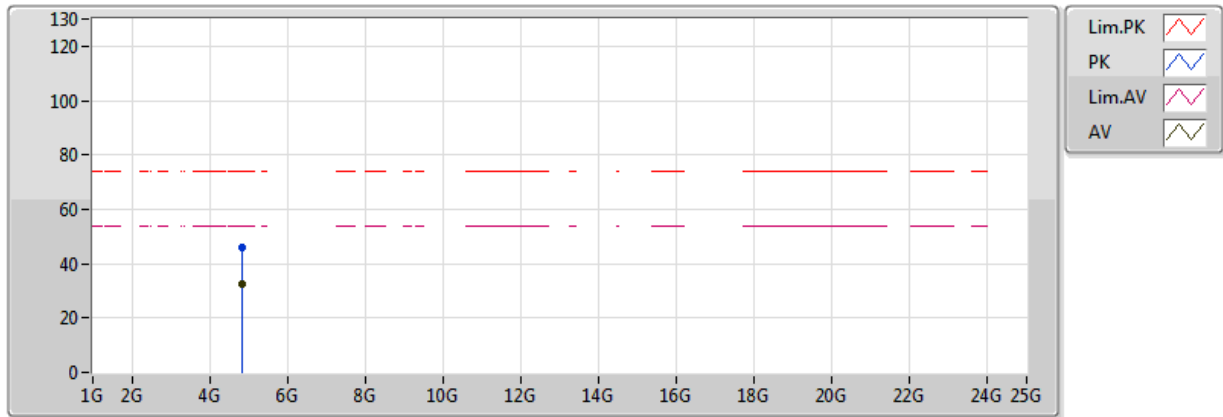
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.8186G	32.34	54.00	-21.66	5.96	3	Vertical	316	1.50					
PK	4.81844G	46.35	74.00	-27.65	5.96	3	Vertical	316	1.50					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

13/02/2018



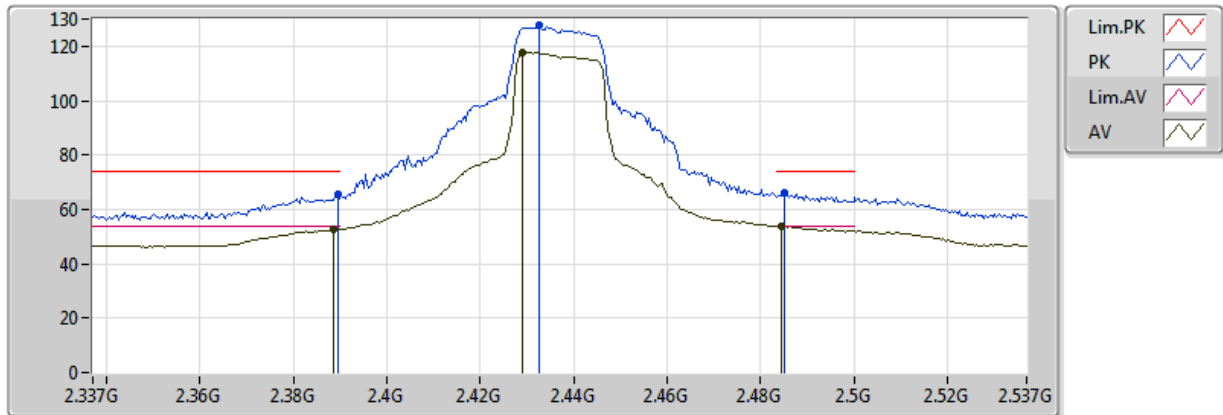
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.8263G	32.28	54.00	-21.72	5.98	3	Horizontal	295	1.42					
PK	4.8238G	45.79	74.00	-28.21	5.97	3	Horizontal	295	1.42					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

13/02/2018



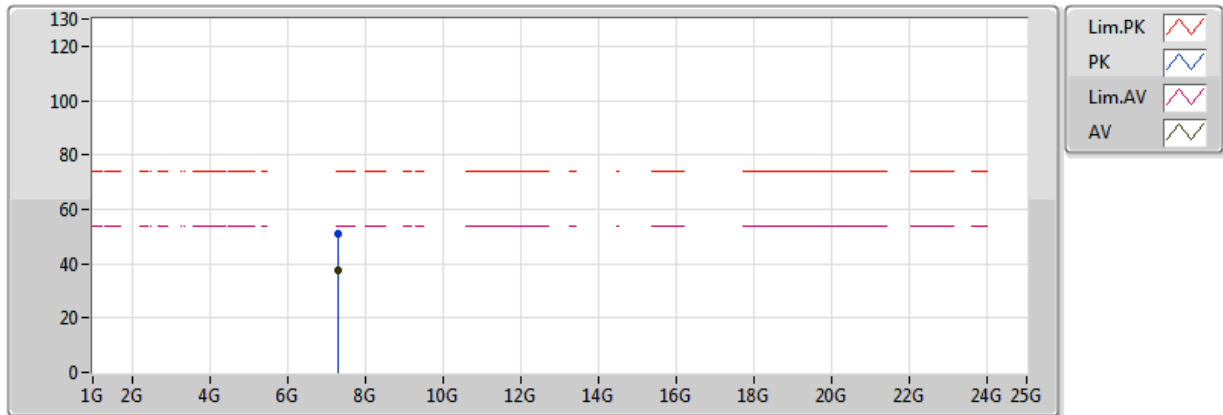
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3886G	52.70	54.00	-1.30	33.16	3	Vertical	312	1.79					
AV	2.429G	117.69	Inf	-Inf	33.18	3	Vertical	312	1.79					
AV	2.4846G	53.70	54.00	-0.30	33.19	3	Vertical	312	1.79					
PK	2.3894G	65.79	74.00	-8.21	33.16	3	Vertical	312	1.79					
PK	2.4326G	127.61	Inf	-Inf	33.18	3	Vertical	312	1.79					
PK	2.485G	66.28	74.00	-7.72	33.19	3	Vertical	312	1.79					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

13/02/2018



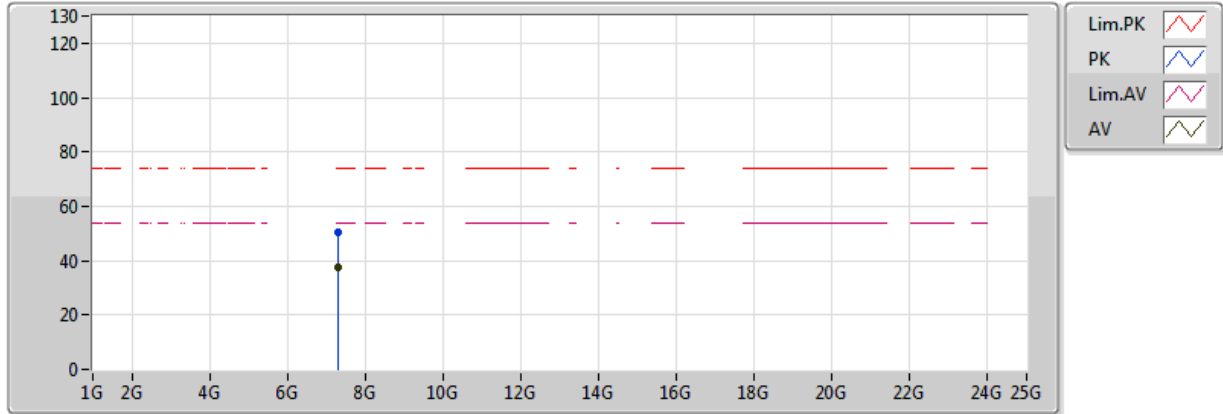
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.30614G	37.82	54.00	-16.18	10.97	3	Vertical	310	1.50					
PK	7.3157G	51.25	74.00	-22.75	10.97	3	Vertical	310	1.50					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

13/02/2018



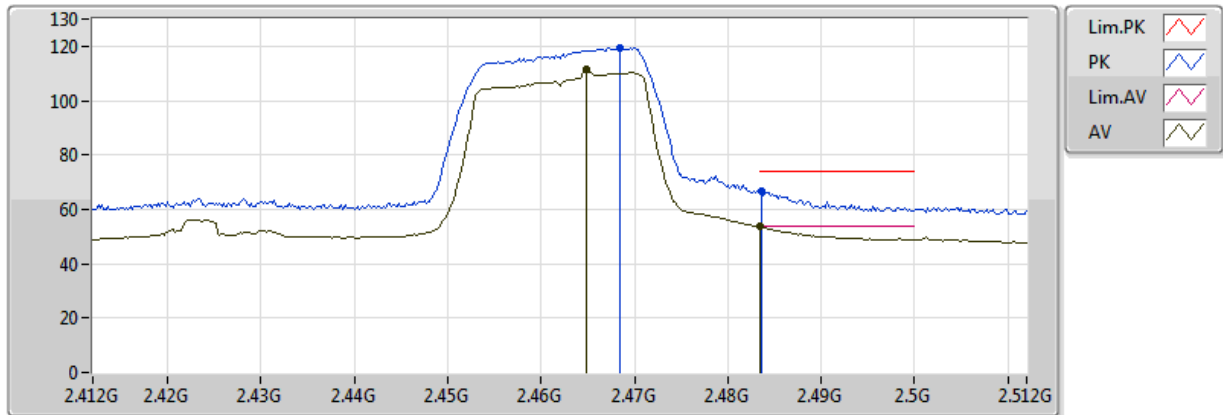
20180213
EUT_Z_4 TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.30704G	37.66	54.00	-16.34	10.97	3	Horizontal	186	1.59					
PK	7.31082G	50.55	74.00	-23.45	10.97	3	Horizontal	186	1.59					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

13/02/2018



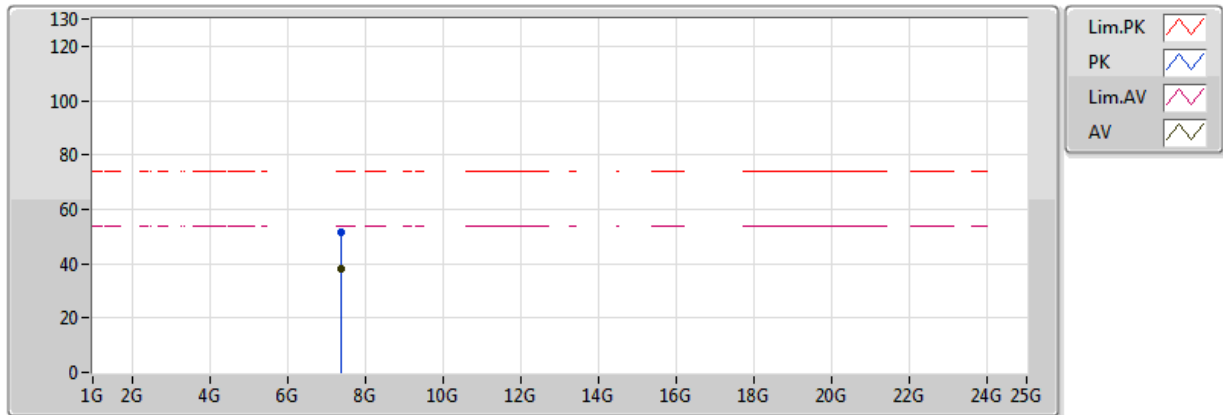
20180213
EUT_Z_4_TX_Dipole
Setting 62
03-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4648G	111.40	Inf	-Inf	33.18	3	Vertical	33	1.68					
AV	2.483502G	53.80	54.00	-0.20	33.19	3	Vertical	33	1.68					
PK	2.4684G	119.35	Inf	-Inf	33.18	3	Vertical	33	1.68					
PK	2.4836G	66.44	74.00	-7.56	33.19	3	Vertical	33	1.68					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

13/02/2018



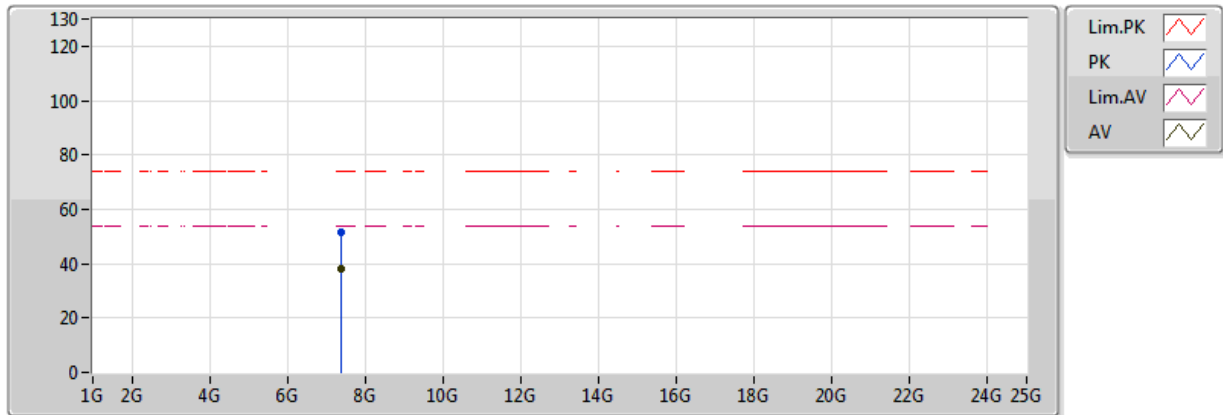
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.3903G	38.09	54.00	-15.91	10.99	3	Vertical	60	1.01					
PK	7.3832G	51.33	74.00	-22.67	10.99	3	Vertical	60	1.01					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

13/02/2018



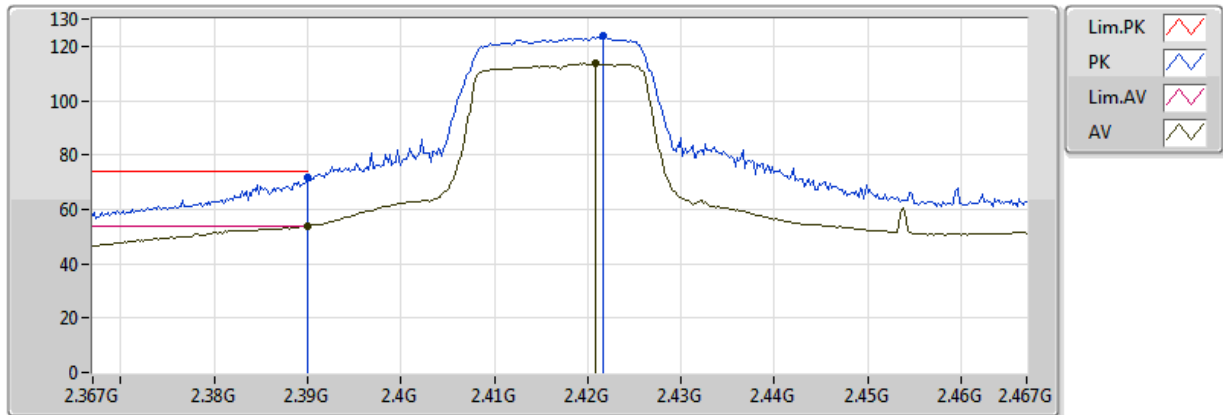
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.38958G	38.28	54.00	-15.72	10.99	3	Horizontal	261	1.04					
PK	7.3855G	51.52	74.00	-22.48	10.99	3	Horizontal	261	1.04					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2417MHz_TX

13/02/2018



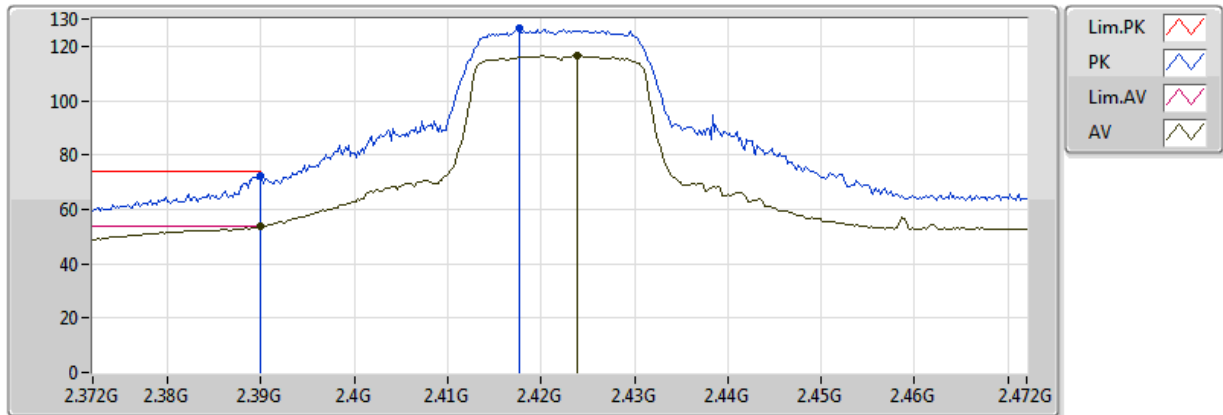
20180213
EUT_Z_4_TX_Dipole
Setting 84
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	53.73	54.00	-0.27	33.16	3	Vertical	341	1.89					
AV	2.4208G	113.72	Inf	-Inf	33.17	3	Vertical	341	1.89					
PK	2.39G	71.51	74.00	-2.49	33.16	3	Vertical	341	1.89					
PK	2.4216G	123.60	Inf	-Inf	33.17	3	Vertical	341	1.89					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2422MHz_TX

13/02/2018



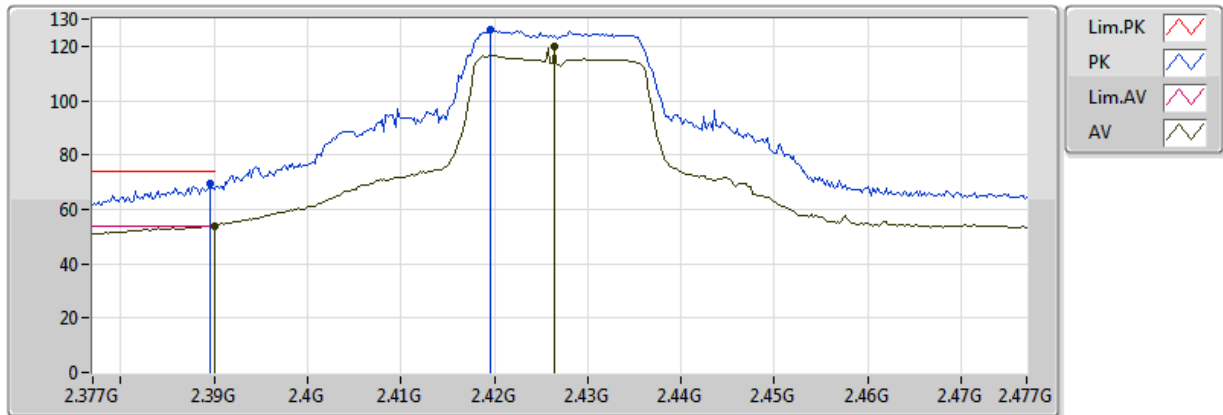
20180213
EUT_Z_4_TX_Dipole
Setting 91
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	53.77	54.00	-0.23	33.16	3	Vertical	30	1.97					
AV	2.4238G	116.57	Inf	-Inf	33.17	3	Vertical	30	1.97					
PK	2.39G	72.11	74.00	-1.89	33.16	3	Vertical	30	1.97					
PK	2.4176G	126.58	Inf	-Inf	33.17	3	Vertical	30	1.97					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2427MHz_TX

13/02/2018



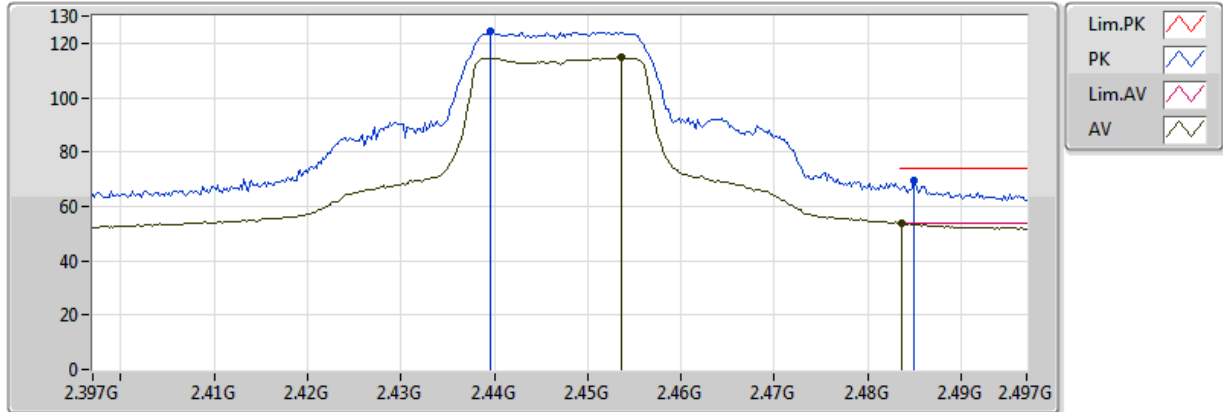
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	53.93	54.00	-0.07	33.16	3	Vertical	339	1.46					
AV	2.4264G	119.77	Inf	-Inf	33.18	3	Vertical	339	1.46					
PK	2.3896G	69.71	74.00	-4.29	33.16	3	Vertical	339	1.46					
PK	2.4196G	126.16	Inf	-Inf	33.17	3	Vertical	339	1.46					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2447MHz_TX

13/02/2018



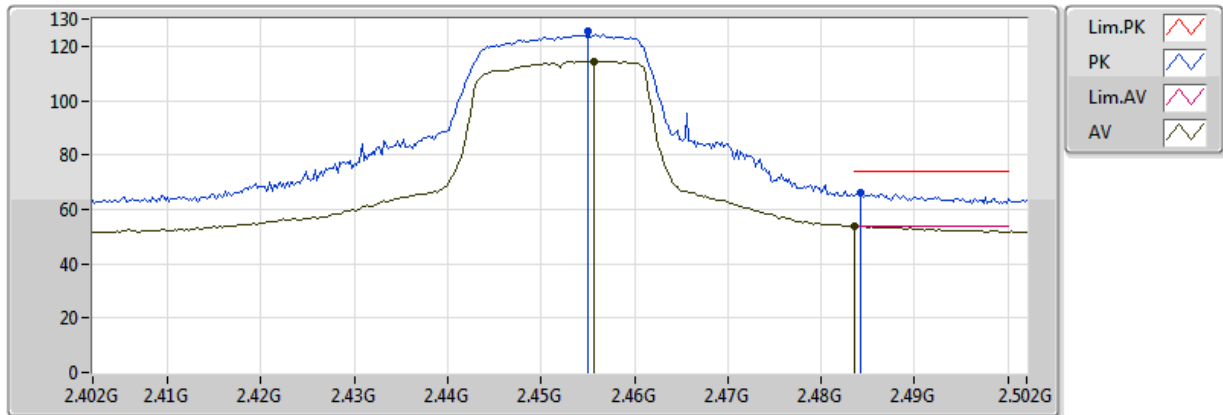
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4536G	114.83	Inf	-Inf	33.18	3	Vertical	94	1.90					
AV	2.4836G	53.79	54.00	-0.21	33.19	3	Vertical	94	1.90					
PK	2.4396G	124.30	Inf	-Inf	33.18	3	Vertical	94	1.90					
PK	2.485G	69.24	74.00	-4.76	33.19	3	Vertical	94	1.90					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2452MHz_TX

13/02/2018



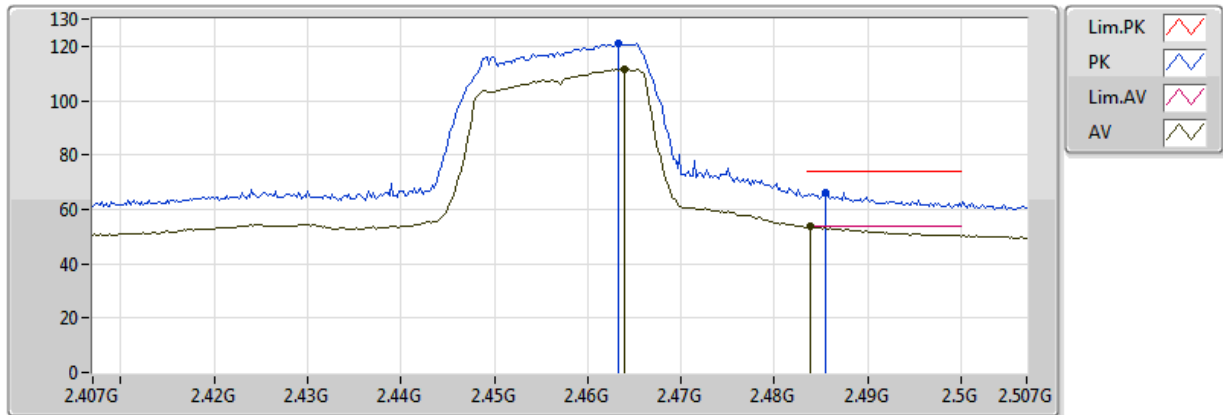
20180213
EUT_Z_4_TX_Dipole
Setting 91
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4556G	114.57	Inf	-Inf	33.18	3	Vertical	49	1.50					
AV	2.4836G	53.78	54.00	-0.22	33.19	3	Vertical	49	1.50					
PK	2.455G	125.58	Inf	-Inf	33.18	3	Vertical	49	1.50					
PK	2.4842G	66.18	74.00	-7.82	33.19	3	Vertical	49	1.50					

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2457MHz_TX

13/02/2018



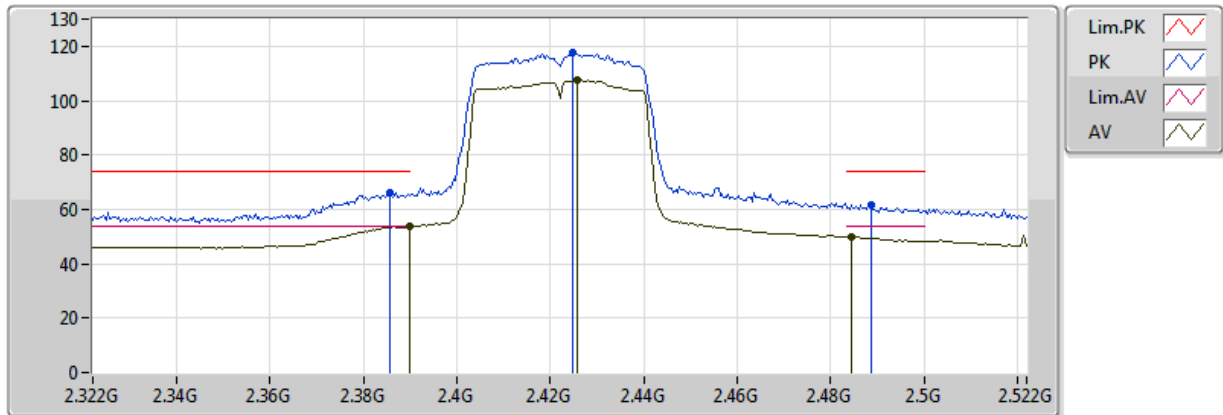
20180213
EUT_Z_4_TX_Dipole
Setting 77
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.464G	111.57	Inf	-Inf	33.18	3	Vertical	34	1.50					
AV	2.4838G	53.74	54.00	-0.26	33.19	3	Vertical	34	1.50					
PK	2.4632G	120.90	Inf	-Inf	33.18	3	Vertical	34	1.50					
PK	2.4854G	66.34	74.00	-7.66	33.19	3	Vertical	34	1.50					

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

13/02/2018



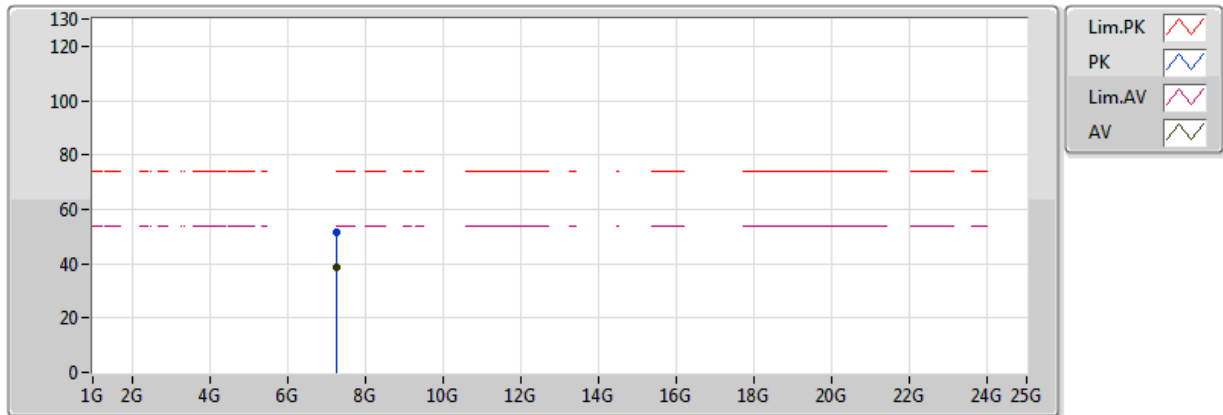
20180213
EUT_Z_4_TX_Dipole
Setting 64
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	53.77	54.00	-0.23	33.16	3	Vertical	327	1.62					
AV	2.4256G	107.45	Inf	-Inf	33.18	3	Vertical	327	1.62					
AV	2.4844G	49.84	54.00	-4.16	33.19	3	Vertical	327	1.62					
PK	2.3856G	66.04	74.00	-7.96	33.16	3	Vertical	327	1.62					
PK	2.4248G	117.59	Inf	-Inf	33.17	3	Vertical	327	1.62					
PK	2.4888G	61.70	74.00	-12.30	33.19	3	Vertical	327	1.62					

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

13/02/2018



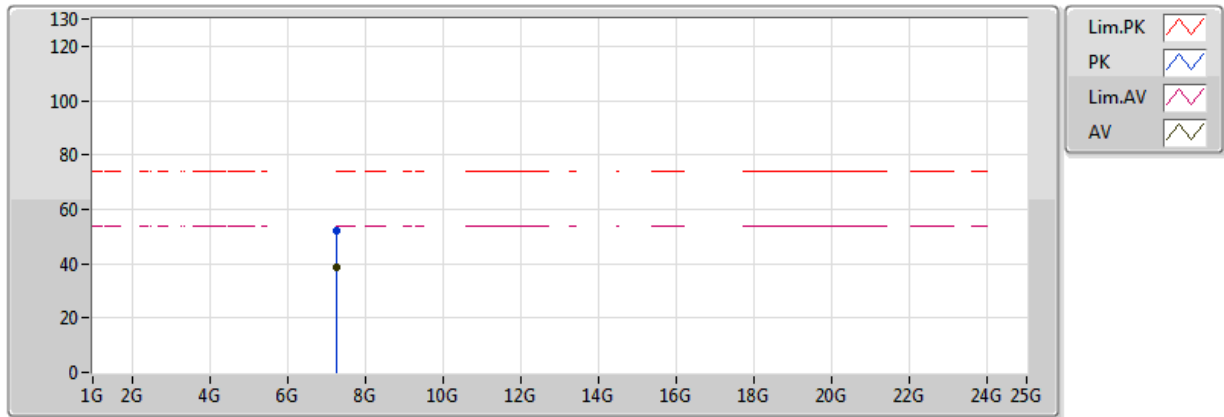
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.26404G	38.52	54.00	-15.48	10.96	3	Vertical	297	2.74					
PK	7.26832G	51.30	74.00	-22.70	10.96	3	Vertical	297	2.74					

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

13/02/2018



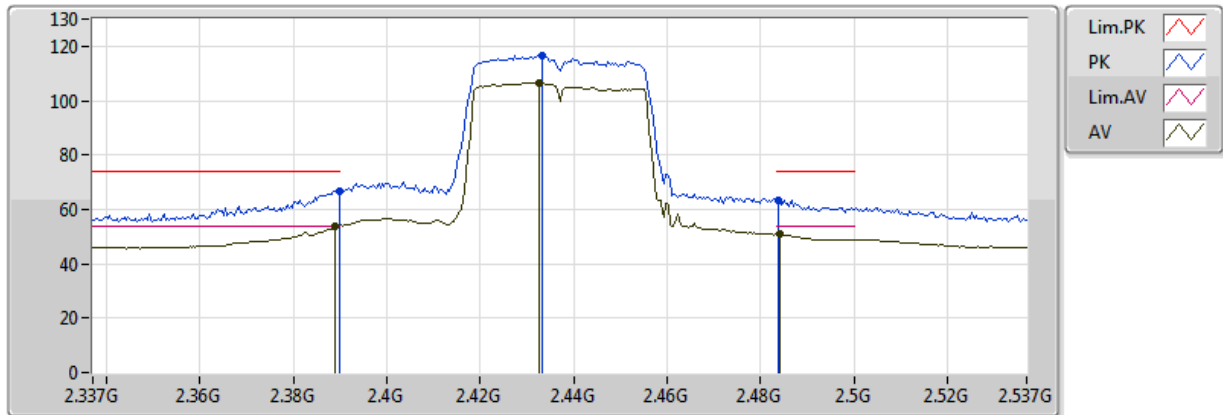
20180213
EUT_Z_4 TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.26492G	38.48	54.00	-15.52	10.96	3	Horizontal	240	1.50					
PK	7.26356G	51.95	74.00	-22.05	10.96	3	Horizontal	240	1.50					

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

13/02/2018



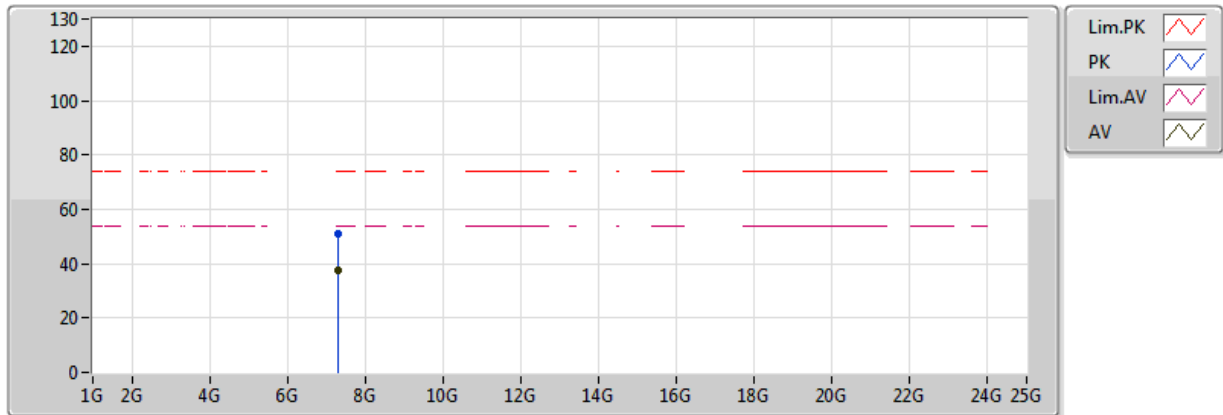
20180213
EUT_Z_4_TX_Dipole
Setting 67
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389G	53.76	54.00	-0.24	33.16	3	Vertical	83	2.23					
AV	2.4326G	106.50	Inf	-Inf	33.18	3	Vertical	83	2.23					
AV	2.4842G	50.87	54.00	-3.13	33.19	3	Vertical	83	2.23					
PK	2.389998G	66.79	74.00	-7.21	33.16	3	Vertical	83	2.23					
PK	2.4334G	116.82	Inf	-Inf	33.18	3	Vertical	83	2.23					
PK	2.4838G	63.53	74.00	-10.47	33.19	3	Vertical	83	2.23					

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

13/02/2018



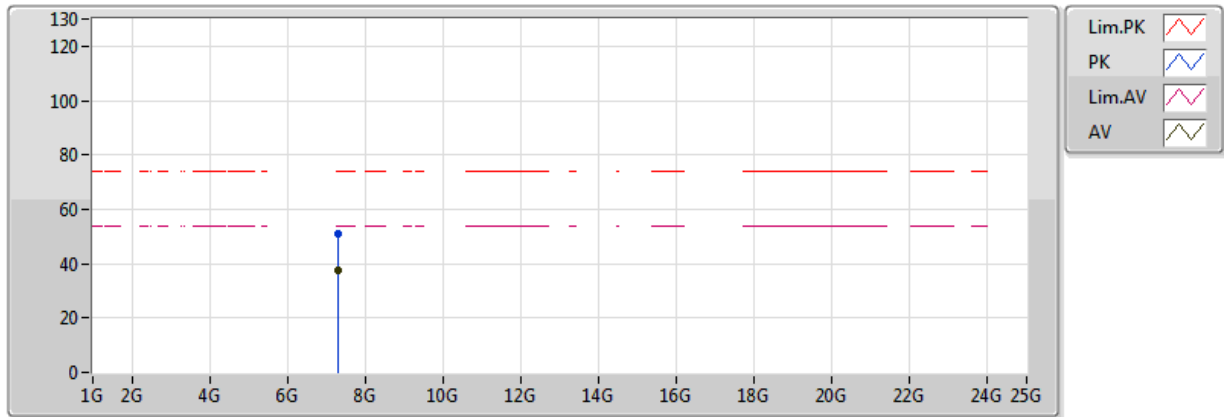
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.31664G	37.64	54.00	-16.36	10.97	3	Vertical	288	1.92					
PK	7.30452G	50.98	74.00	-23.02	10.97	3	Vertical	288	1.92					

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

13/02/2018



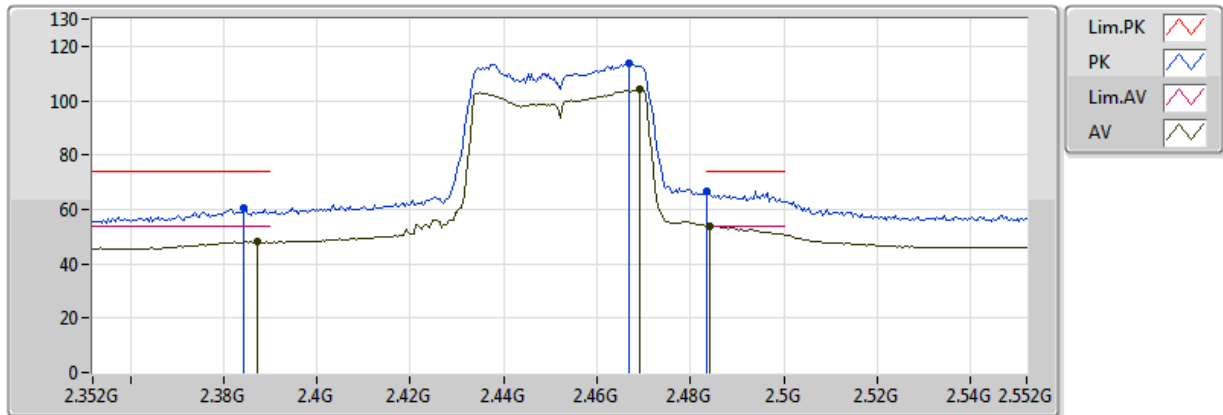
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.30344G	37.77	54.00	-16.23	10.97	3	Horizontal	166	1.12					
PK	7.30412G	51.16	74.00	-22.84	10.97	3	Horizontal	166	1.12					

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

13/02/2018



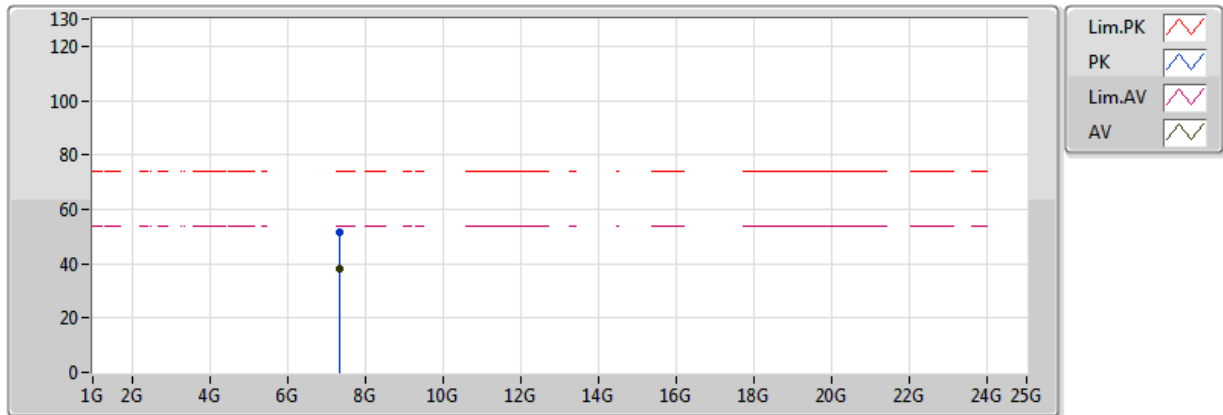
20180213
EUT_Z_4_TX_Dipole
Setting 55
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3872G	48.02	54.00	-5.98	33.16	3	Vertical	36	1.87					
AV	2.4692G	104.13	Inf	-Inf	33.18	3	Vertical	36	1.87					
AV	2.484G	53.99	54.00	-0.01	33.19	3	Vertical	36	1.87					
PK	2.3844G	60.46	74.00	-13.54	33.16	3	Vertical	36	1.87					
PK	2.4668G	113.61	Inf	-Inf	33.18	3	Vertical	36	1.87					
PK	2.4836G	66.75	74.00	-7.25	33.19	3	Vertical	36	1.87					

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

13/02/2018



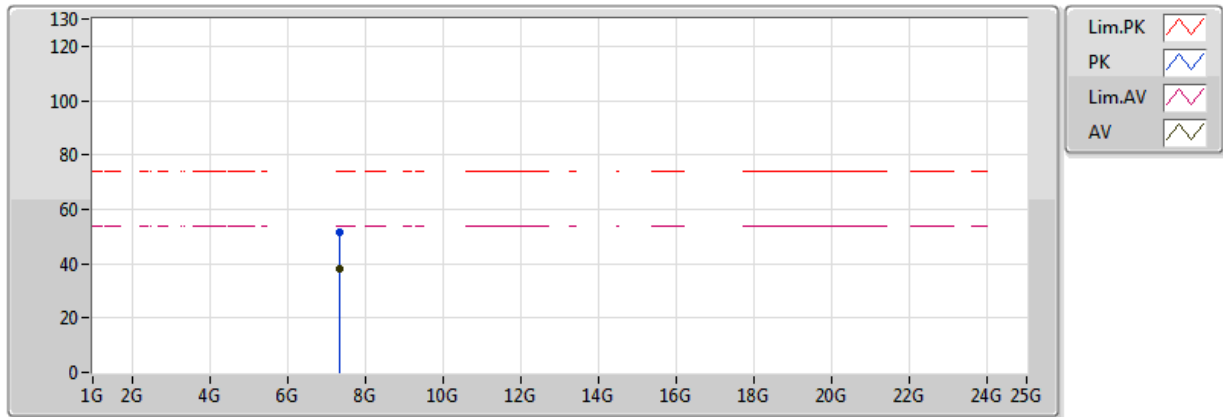
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.3472G	38.24	54.00	-15.76	10.98	3	Vertical	160	1.10					
PK	7.35516G	51.67	74.00	-22.33	10.98	3	Vertical	160	1.10					

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

13/02/2018



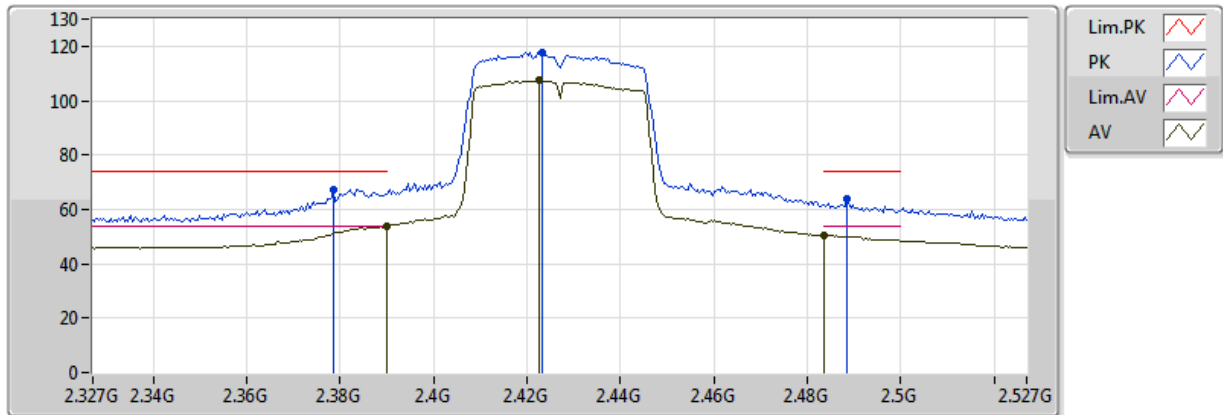
20180213
EUT_Z_4 TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.34764G	38.27	54.00	-15.73	10.98	3	Horizontal	274	1.50					
PK	7.35304G	51.30	74.00	-22.70	10.98	3	Horizontal	274	1.50					

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2427MHz_TX

13/02/2018



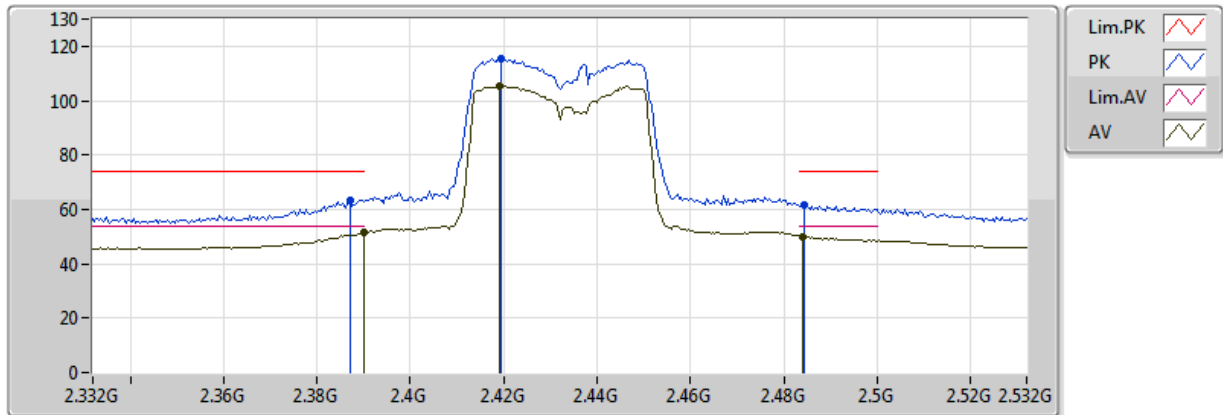
20180213
EUT_Z_4_TX_Dipole
Setting 66
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	53.87	54.00	-0.13	33.16	3	Vertical	345	1.85					
AV	2.4226G	107.31	Inf	-Inf	33.17	3	Vertical	345	1.85					
AV	2.483502G	50.50	54.00	-3.50	33.19	3	Vertical	345	1.85					
PK	2.3786G	67.32	74.00	-6.68	33.16	3	Vertical	345	1.85					
PK	2.4234G	117.72	Inf	-Inf	33.17	3	Vertical	345	1.85					
PK	2.4886G	63.65	74.00	-10.35	33.19	3	Vertical	345	1.85					

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2432MHz_TX

13/02/2018



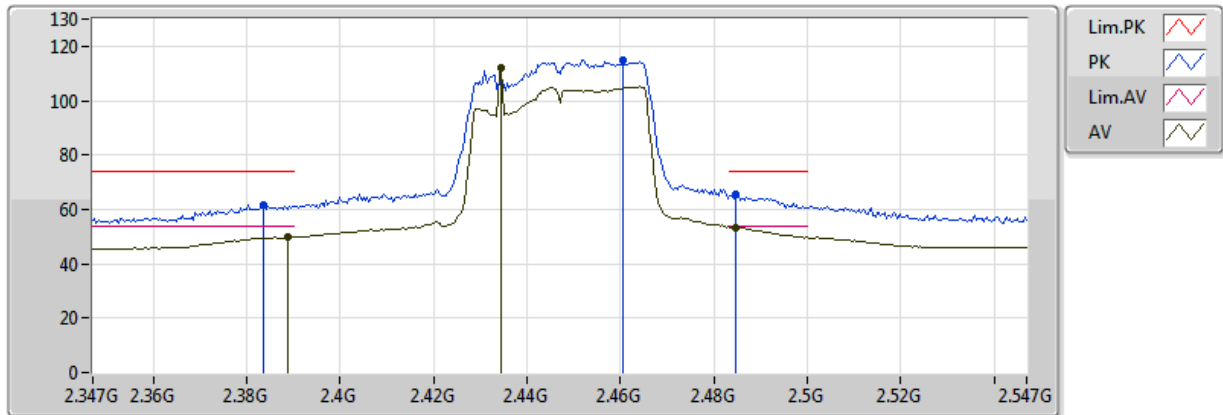
20180213
EUT_Z_4_TX_Dipole
Setting 67
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	51.36	54.00	-2.64	33.16	3	Vertical	110	1.50					
AV	2.4192G	105.52	Inf	-Inf	33.17	3	Vertical	110	1.50					
AV	2.484G	49.94	54.00	-4.06	33.19	3	Vertical	110	1.50					
PK	2.3872G	63.28	74.00	-10.72	33.16	3	Vertical	110	1.50					
PK	2.4196G	115.33	Inf	-Inf	33.17	3	Vertical	110	1.50					
PK	2.4844G	61.66	74.00	-12.34	33.19	3	Vertical	110	1.50					

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2447MHz_TX

13/02/2018



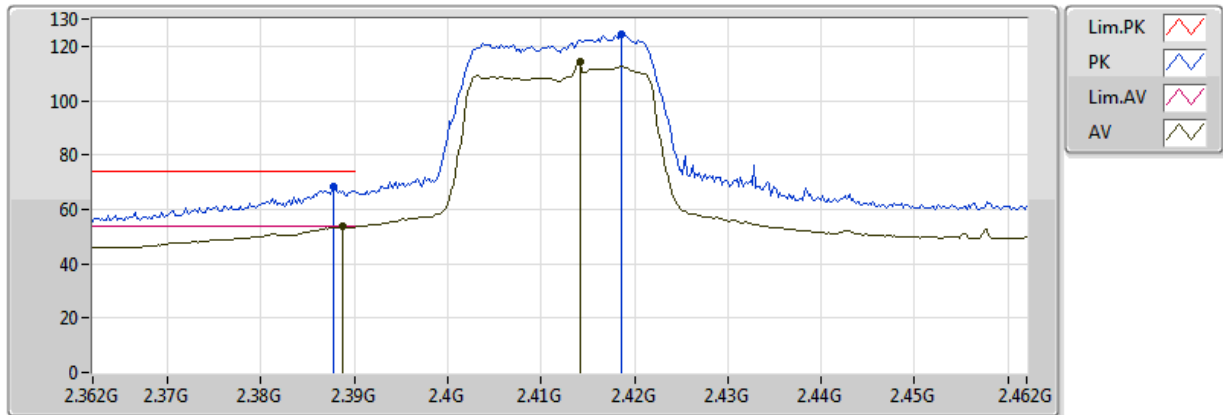
20180213
EUT_Z_4_TX_Dipole
Setting 67
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3886G	49.93	54.00	-4.07	33.16	3	Vertical	341	1.50					
AV	2.4346G	112.04	Inf	-Inf	33.18	3	Vertical	341	1.50					
AV	2.4846G	53.50	54.00	-0.50	33.19	3	Vertical	341	1.50					
PK	2.3834G	61.69	74.00	-12.31	33.16	3	Vertical	341	1.50					
PK	2.4606G	114.68	Inf	-Inf	33.18	3	Vertical	341	1.50					
PK	2.4846G	65.65	74.00	-8.35	33.19	3	Vertical	341	1.50					

HE20,BF_Nss1,(MCS0)_4TX

2412MHz_TX

13/02/2018



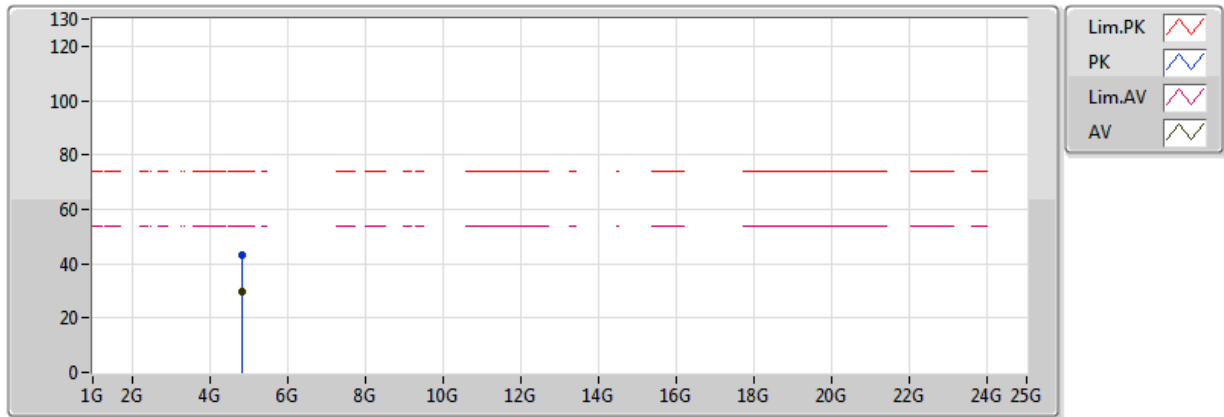
20180213
EUT_Z_4_TX_Dipole
Setting 77
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3888G	53.85	54.00	-0.15	33.16	3	Vertical	349	1.50					
AV	2.4142G	114.29	Inf	-Inf	33.17	3	Vertical	349	1.50					
PK	2.3878G	68.53	74.00	-5.47	33.16	3	Vertical	349	1.50					
PK	2.4186G	124.63	Inf	-Inf	33.17	3	Vertical	349	1.50					

HE20,BF_Nss1,(MCS0)_4TX

2412MHz_TX

13/02/2018



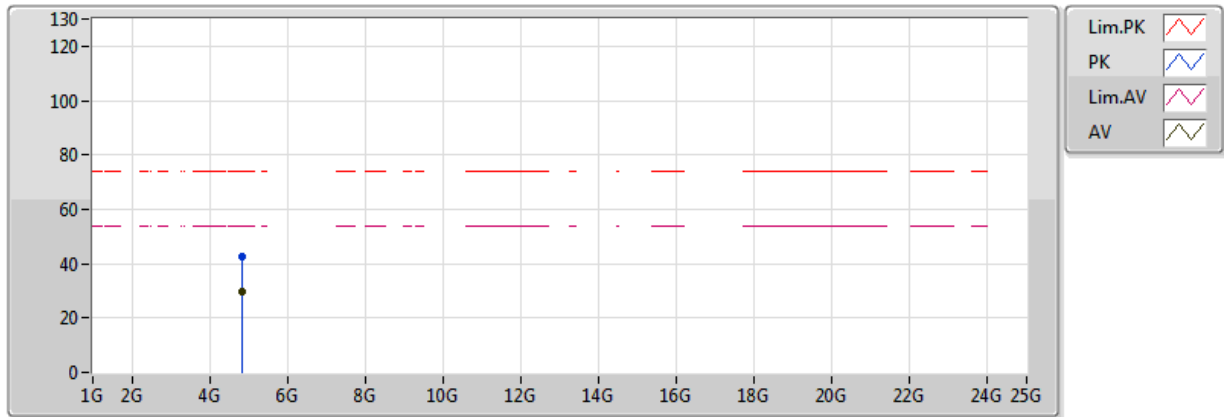
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.826G	29.48	54.00	-24.52	3.17	3	Vertical	191	1.50					
PK	4.82036G	42.93	74.00	-31.07	3.15	3	Vertical	191	1.50					

HE20,BF_Nss1,(MCS0)_4TX

2412MHz_TX

13/02/2018



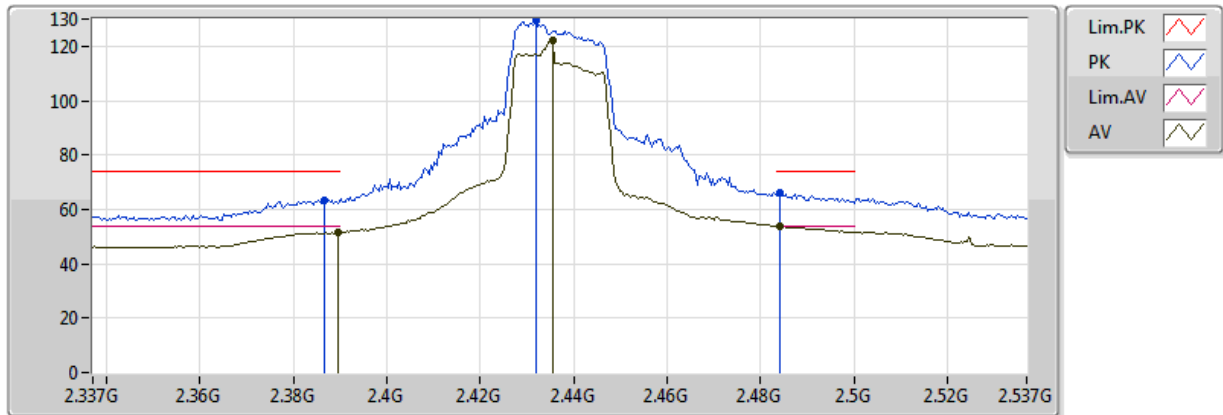
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EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.8308G	29.59	54.00	-24.41	3.18	3	Horizontal	304	1.50					
PK	4.8184G	42.67	74.00	-31.33	3.15	3	Horizontal	304	1.50					

HE20,BF_Nss1,(MCS0)_4TX

2437MHz_TX

13/02/2018



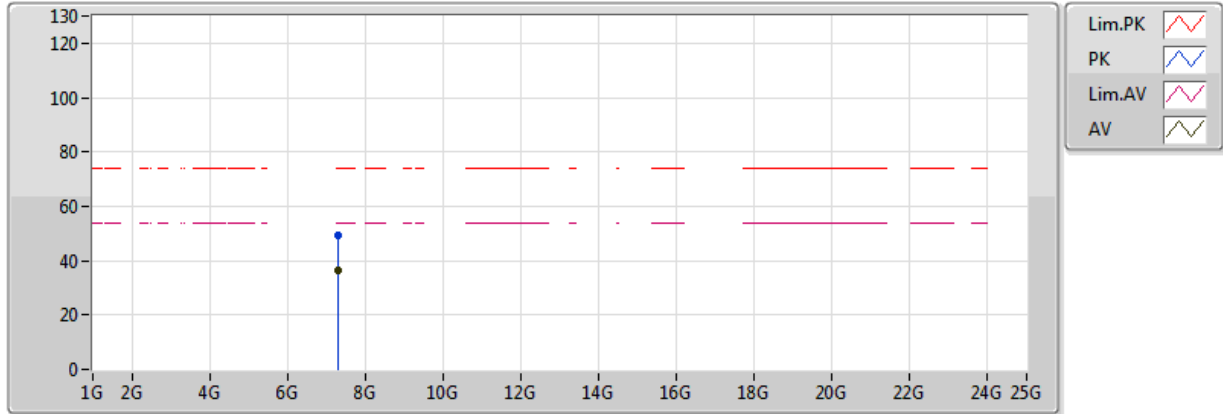
20180213
EUT_Z_4_TX_Dipole
Setting 92
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3894G	51.45	54.00	-2.55	33.16	3	Vertical	33	1.37					
AV	2.4354G	122.11	Inf	-Inf	33.18	3	Vertical	33	1.37					
AV	2.4842G	53.69	54.00	-0.31	33.19	3	Vertical	33	1.37					
PK	2.3866G	63.57	74.00	-10.43	33.16	3	Vertical	33	1.37					
PK	2.4318G	129.30	Inf	-Inf	33.18	3	Vertical	33	1.37					
PK	2.4842G	65.93	74.00	-8.07	33.19	3	Vertical	33	1.37					

HE20,BF_Nss1,(MCS0)_4TX

2437MHz_TX

13/02/2018



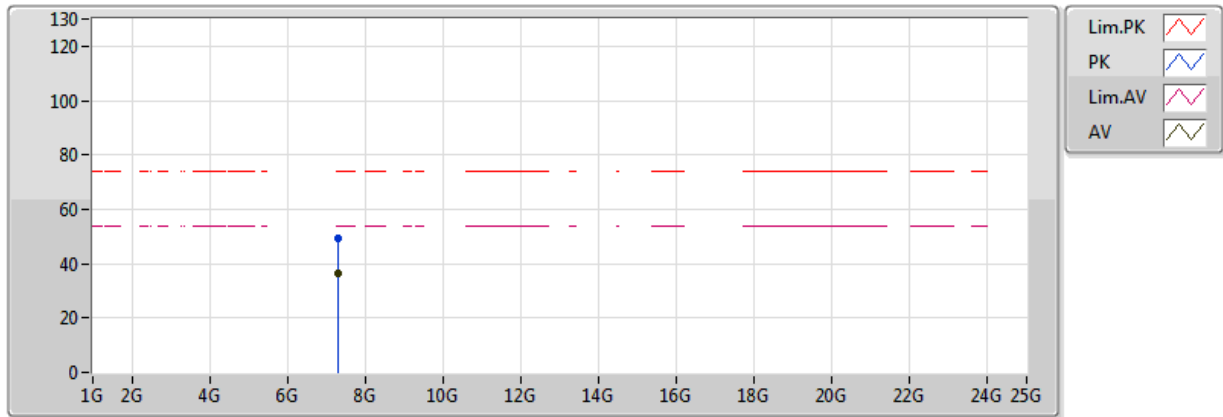
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.31756G	36.37	54.00	-17.63	9.48	3	Vertical	326	2.59					
PK	7.31964G	49.55	74.00	-24.45	9.48	3	Vertical	326	2.59					

HE20,BF_Nss1,(MCS0)_4TX

2437MHz_TX

13/02/2018



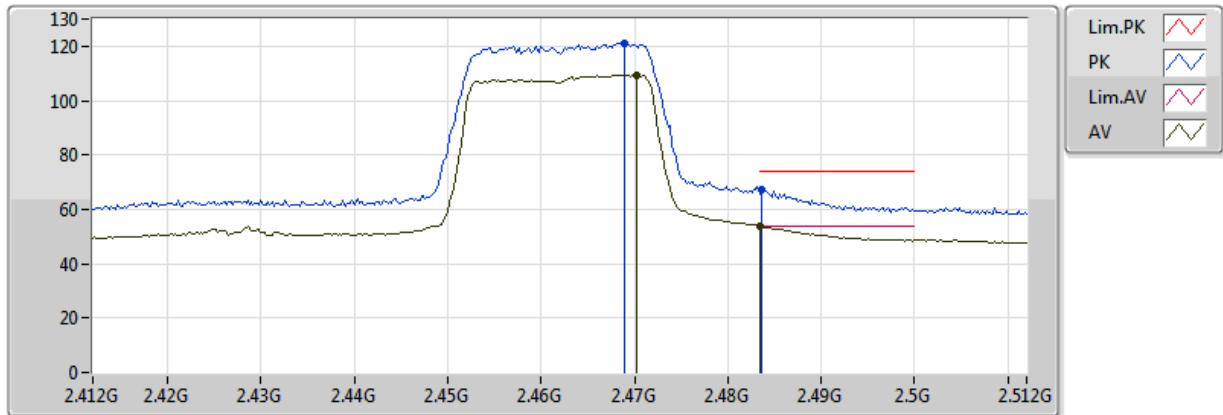
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.31928G	36.27	54.00	-17.73	9.48	3	Horizontal	196	1.78					
PK	7.30128G	49.42	74.00	-24.58	9.47	3	Horizontal	196	1.78					

HE20,BF_Nss1,(MCS0)_4TX

2462MHz_TX

13/02/2018



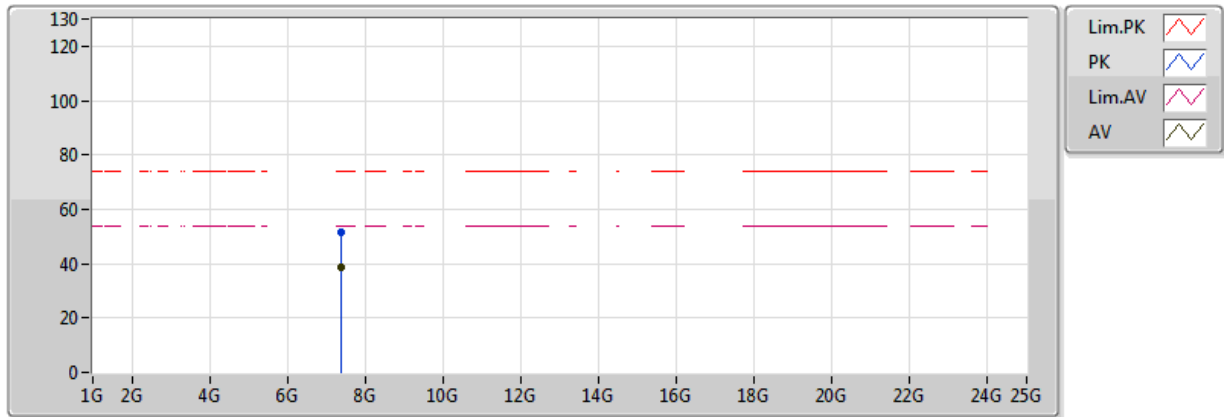
20180213
EUT_Z_4_TX_Dipole
Setting 66
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4702G	109.31	Inf	-Inf	33.18	3	Vertical	344	1.68					
AV	2.483502G	53.69	54.00	-0.31	33.19	3	Vertical	344	1.68					
PK	2.469G	121.28	Inf	-Inf	33.18	3	Vertical	344	1.68					
PK	2.4836G	67.21	74.00	-6.79	33.19	3	Vertical	344	1.68					

HE20,BF_Nss1,(MCS0)_4TX

2462MHz_TX

13/02/2018



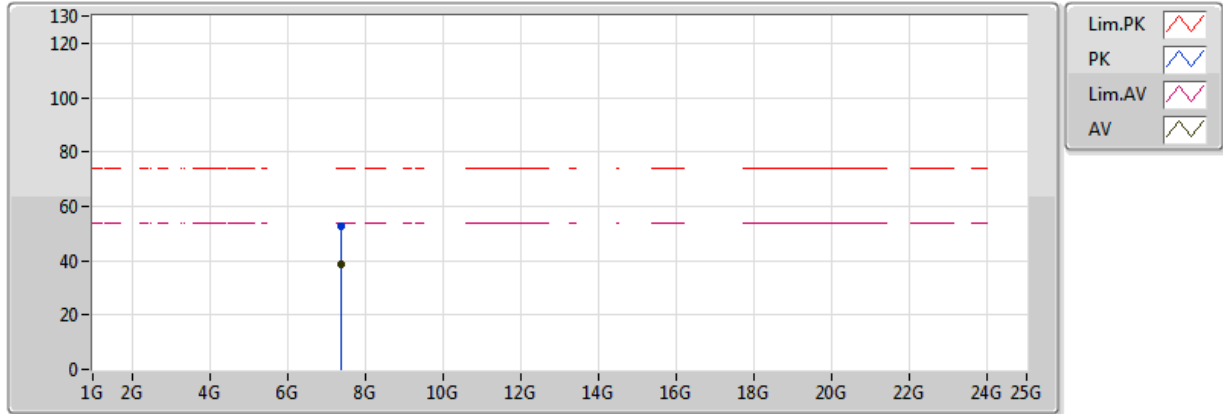
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.39236G	38.56	54.00	-15.44	10.99	3	Vertical	104	1.06					
PK	7.39556G	51.62	74.00	-22.38	10.99	3	Vertical	104	1.06					

HE20,BF_Nss1,(MCS0)_4TX

2462MHz_TX

13/02/2018



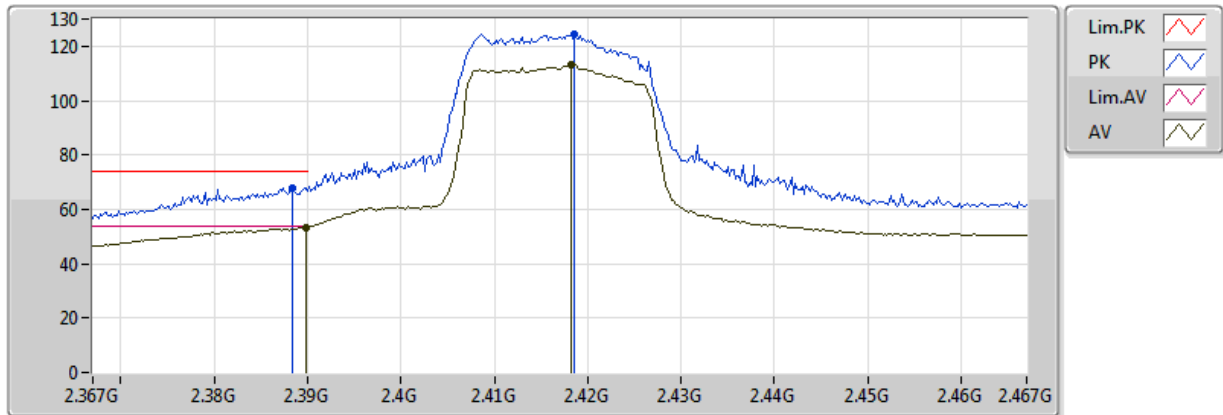
20180213
EUT_Z_4 TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.39544G	38.48	54.00	-15.52	10.99	3	Horizontal	126	1.69					
PK	7.39368G	52.48	74.00	-21.52	10.99	3	Horizontal	126	1.69					

HE20,BF_Nss1,(MCS0)_4TX

2417MHz_TX

13/02/2018



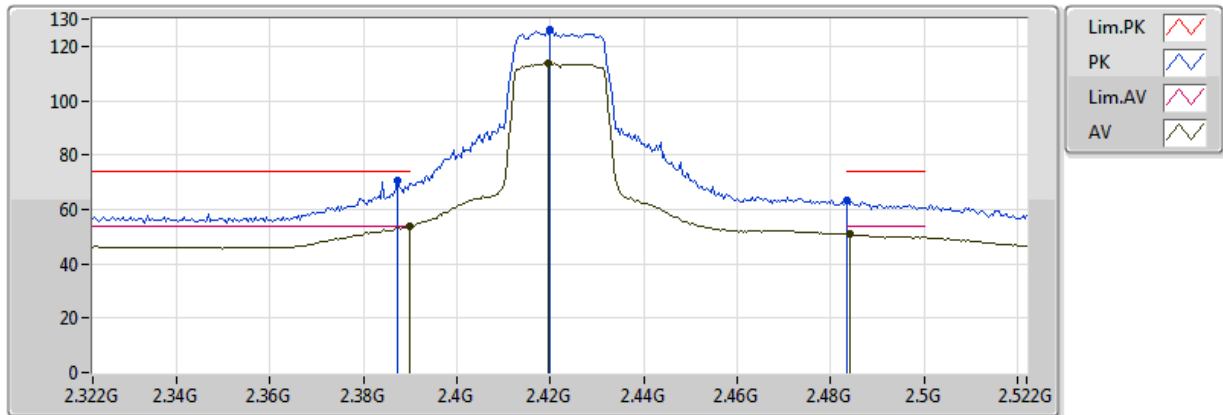
20180213
EUT_Z_4_TX_Dipole
Setting 83
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3898G	53.51	54.00	-0.49	33.16	3	Vertical	340	1.50					
AV	2.4182G	113.40	Inf	-Inf	33.17	3	Vertical	340	1.50					
PK	2.3884G	67.97	74.00	-6.03	33.16	3	Vertical	340	1.50					
PK	2.4186G	124.36	Inf	-Inf	33.17	3	Vertical	340	1.50					

HE20,BF_Nss1,(MCS0)_4TX

2422MHz_TX

13/02/2018



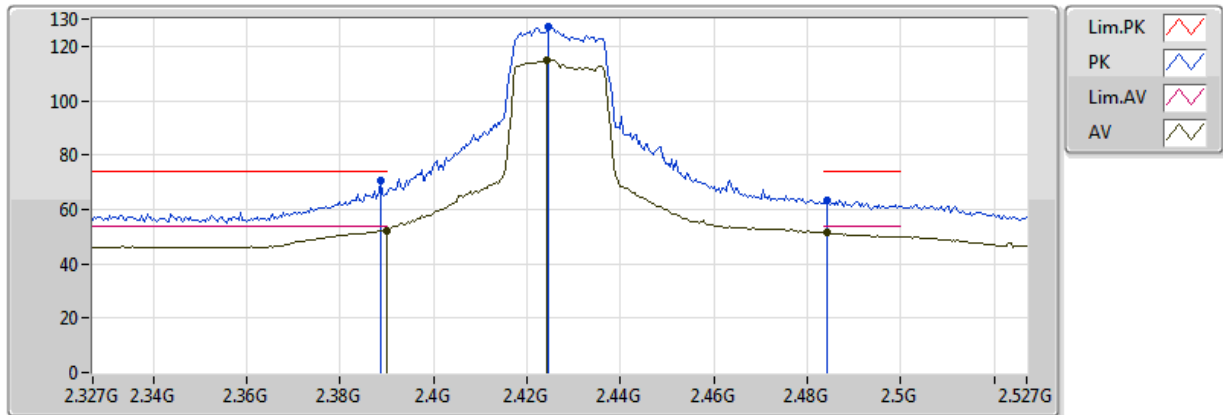
20180213
EUT_Z_4_TX_Dipole
Setting 86
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	53.81	54.00	-0.19	33.16	3	Vertical	319	1.81					
AV	2.4196G	113.92	Inf	-Inf	33.17	3	Vertical	319	1.81					
AV	2.484G	50.84	54.00	-3.16	33.19	3	Vertical	319	1.81					
PK	2.3872G	70.58	74.00	-3.42	33.16	3	Vertical	319	1.81					
PK	2.42G	126.05	Inf	-Inf	33.17	3	Vertical	319	1.81					
PK	2.4836G	63.07	74.00	-10.93	33.19	3	Vertical	319	1.81					

HE20,BF_Nss1,(MCS0)_4TX

2427MHz_TX

13/02/2018



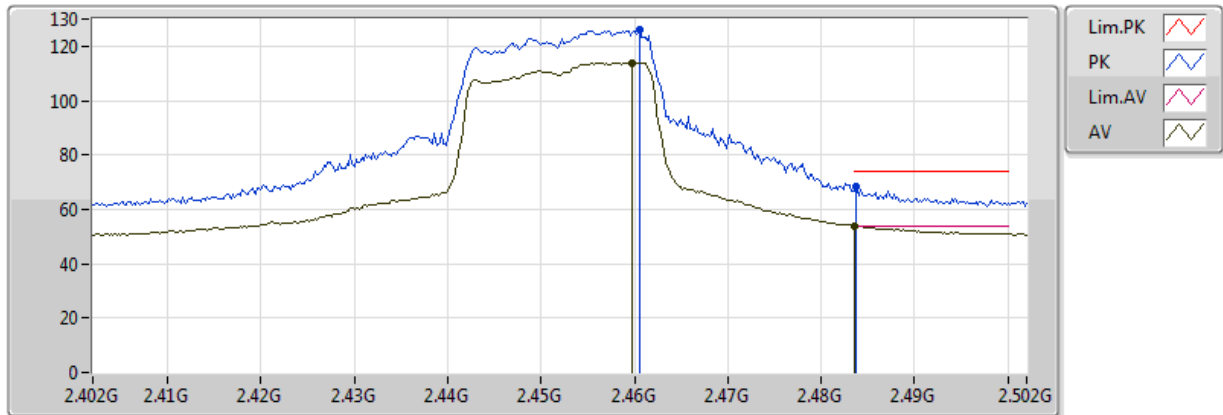
20180213
EUT Z_4 TX_Dipole
Setting 92
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	52.39	54.00	-1.61	33.16	3	Vertical	318	1.50					
AV	2.4242G	115.13	Inf	-Inf	33.17	3	Vertical	318	1.50					
AV	2.4842G	51.51	54.00	-2.49	33.19	3	Vertical	318	1.50					
PK	2.3886G	70.85	74.00	-3.15	33.16	3	Vertical	318	1.50					
PK	2.4246G	127.01	Inf	-Inf	33.17	3	Vertical	318	1.50					
PK	2.4842G	63.49	74.00	-10.51	33.19	3	Vertical	318	1.50					

HE20,BF_Nss1,(MCS0)_4TX

2452MHz_TX

14/02/2018



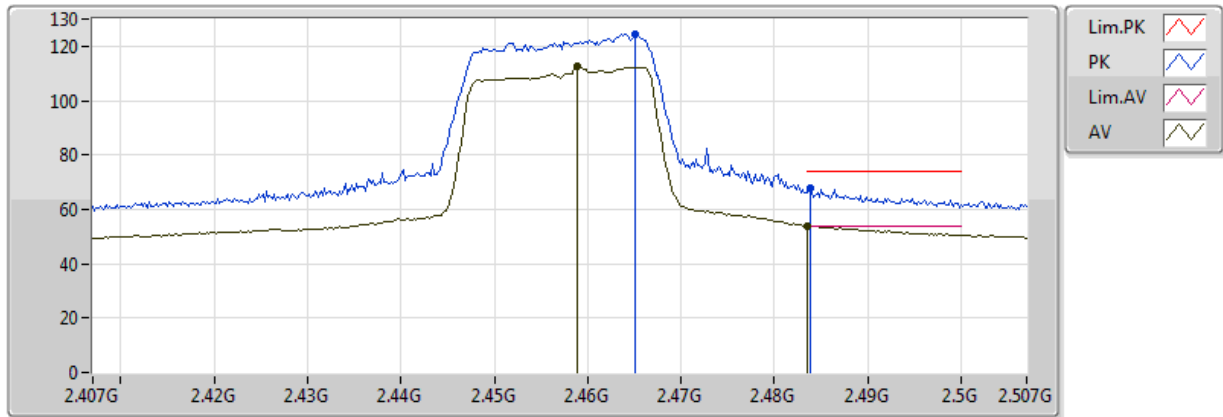
20180214
EUT_Z_4_TX_Dipole
Setting 92
06-L-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4598G	113.93	Inf	-Inf	32.34	3	Vertical	352	1.39					
AV	2.483502G	53.91	54.00	-0.09	32.42	3	Vertical	352	1.39					
PK	2.4606G	126.01	Inf	-Inf	32.35	3	Vertical	352	1.39					
PK	2.4838G	68.45	74.00	-5.55	32.42	3	Vertical	352	1.39					

HE20,BF_Nss1,(MCS0)_4TX

2457MHz_TX

14/02/2018



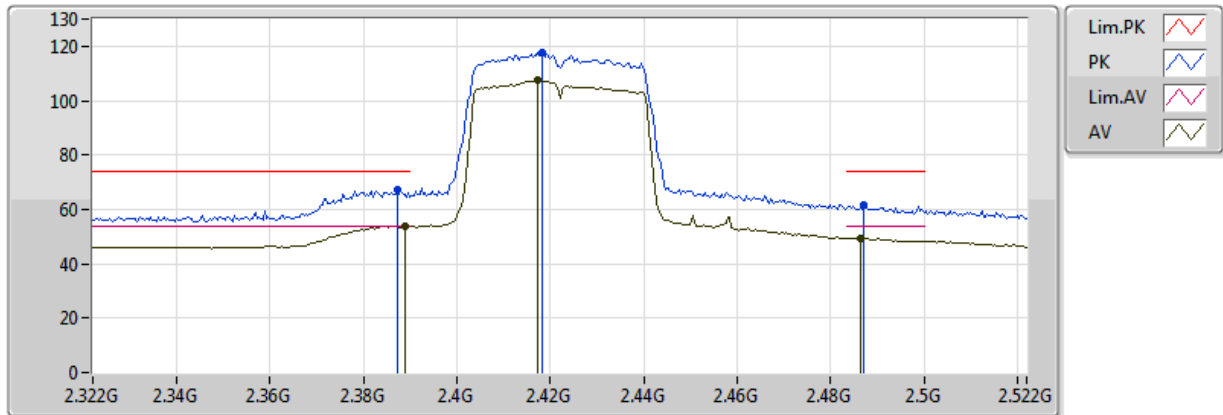
20180214
EUT_Z_4_TX_Dipole
Setting 79
06-L-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4588G	112.70	Inf	-Inf	32.34	3	Vertical	32	2.02					
AV	2.483502G	53.85	54.00	-0.15	32.42	3	Vertical	32	2.02					
PK	2.465G	124.33	Inf	-Inf	32.36	3	Vertical	32	2.02					
PK	2.4838G	67.68	74.00	-6.32	32.42	3	Vertical	32	2.02					

HE40,BF_Nss1,(MCS0)_4TX

2422MHz_TX

13/02/2018



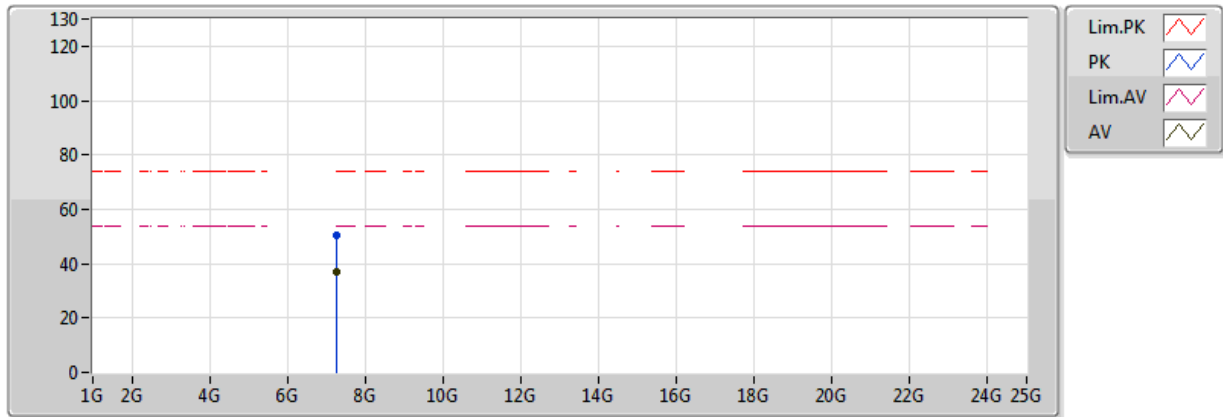
20180213
EUT Z_4 TX_Dipole
Setting 61
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3888G	53.87	54.00	-0.13	33.16	3	Vertical	337	1.56					
AV	2.4172G	107.50	Inf	-Inf	33.17	3	Vertical	337	1.56					
AV	2.4864G	49.50	54.00	-4.50	33.19	3	Vertical	337	1.56					
PK	2.3872G	67.09	74.00	-6.91	33.16	3	Vertical	337	1.56					
PK	2.4184G	117.60	Inf	-Inf	33.17	3	Vertical	337	1.56					
PK	2.4872G	61.71	74.00	-12.29	33.19	3	Vertical	337	1.56					

HE40,BF_Nss1,(MCS0)_4TX

2422MHz_TX

13/02/2018



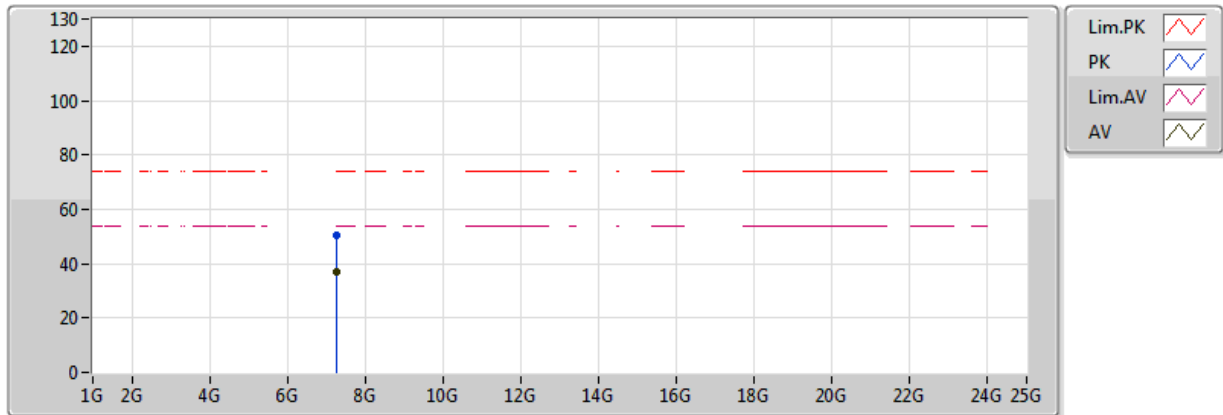
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.26576G	36.92	54.00	-17.08	9.45	3	Vertical	270	1.50					
PK	7.27484G	50.49	74.00	-23.51	9.45	3	Vertical	270	1.50					

HE40,BF_Nss1,(MCS0)_4TX

2422MHz_TX

13/02/2018



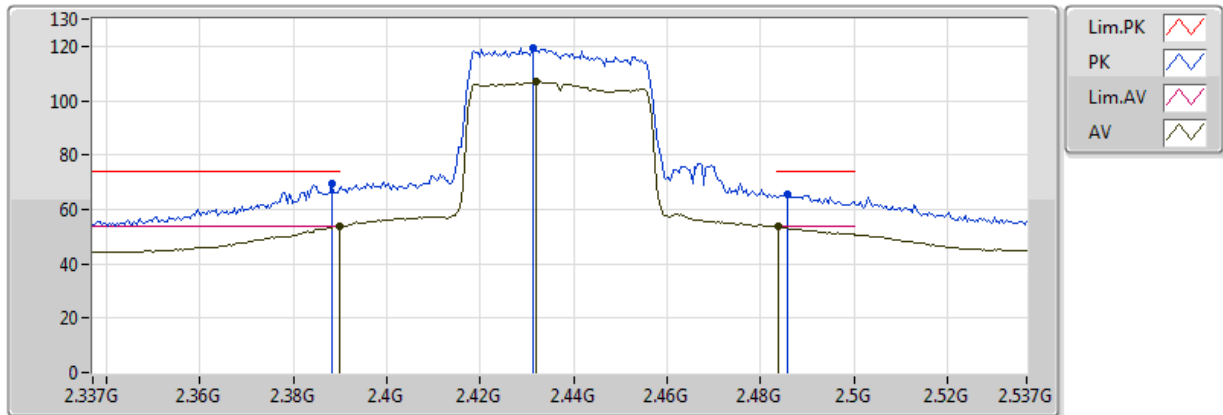
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.26772G	36.98	54.00	-17.02	9.45	3	Horizontal	69	2.86					
PK	7.26532G	50.39	74.00	-23.61	9.45	3	Horizontal	69	2.86					

HE40,BF_Nss1,(MCS0)_4TX

2437MHz_TX

14/02/2018



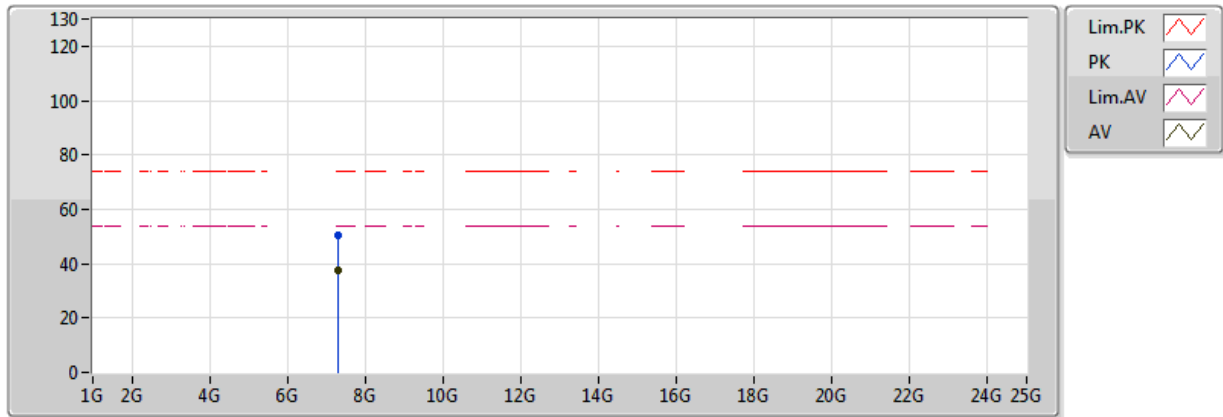
20180214
EUT_Z_4_TX_Dipole
Setting 76
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	53.79	54.00	-0.21	32.12	3	Vertical	336	2.27					
AV	2.4318G	107.16	Inf	-Inf	32.25	3	Vertical	336	2.27					
AV	2.4838G	53.56	54.00	-0.44	32.42	3	Vertical	336	2.27					
PK	2.3882G	69.65	74.00	-4.35	32.11	3	Vertical	336	2.27					
PK	2.4314G	119.30	Inf	-Inf	32.25	3	Vertical	336	2.27					
PK	2.4858G	65.47	74.00	-8.53	32.43	3	Vertical	336	2.27					

HE40,BF_Nss1,(MCS0)_4TX

2437MHz_TX

13/02/2018



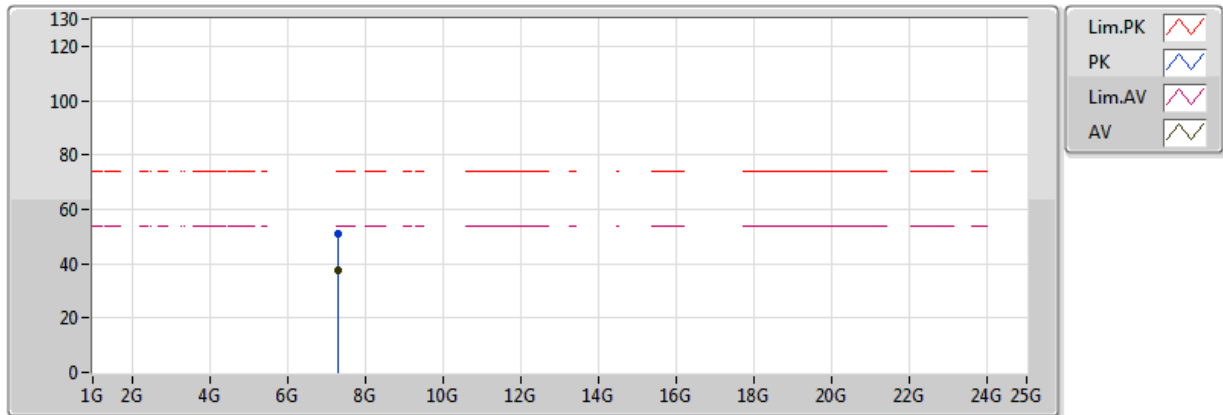
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.30188G	37.66	54.00	-16.34	10.97	3	Vertical	84	1.50					
PK	7.30124G	50.59	74.00	-23.41	10.97	3	Vertical	84	1.50					

HE40,BF_Nss1,(MCS0)_4TX

2437MHz_TX

13/02/2018



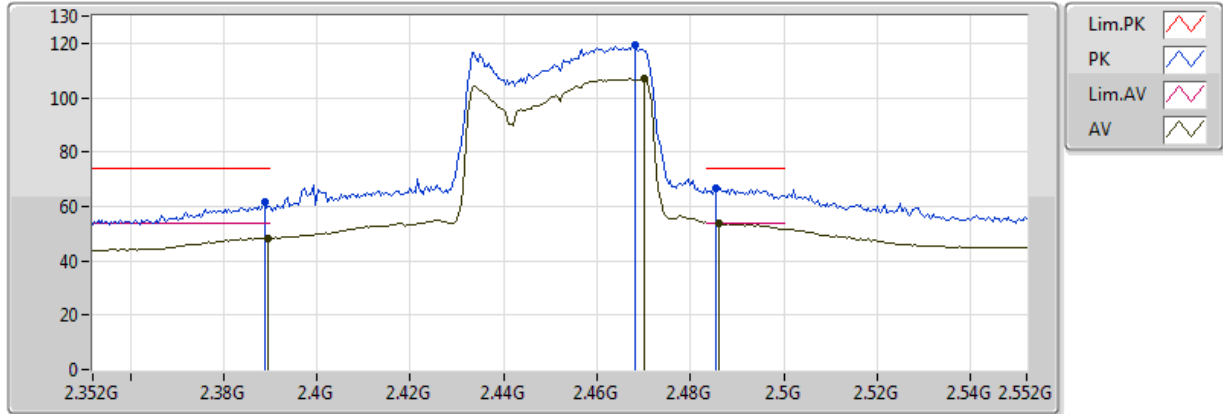
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.30224G	37.71	54.00	-16.29	10.97	3	Horizontal	78	1.50					
PK	7.308G	50.98	74.00	-23.02	10.97	3	Horizontal	78	1.50					

HE40,BF_Nss1,(MCS0)_4TX

2452MHz_TX

14/02/2018



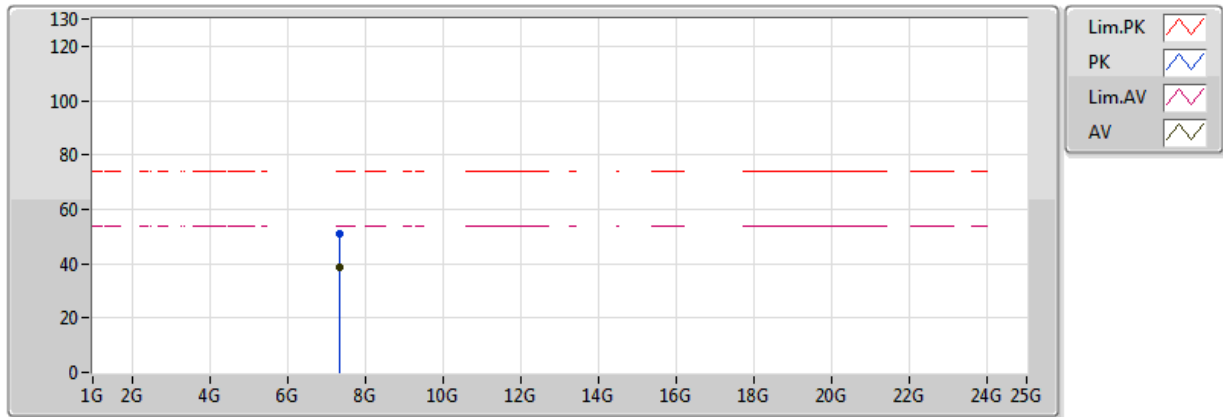
20180214
EUT_Z_4_TX_Dipole
Setting 70
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3896G	48.44	54.00	-5.56	32.12	3	Vertical	0	2.01					
AV	2.47G	106.97	Inf	-Inf	32.38	3	Vertical	0	2.01					
AV	2.486G	53.92	54.00	-0.08	32.43	3	Vertical	0	2.01					
PK	2.3888G	61.45	74.00	-12.55	32.11	3	Vertical	0	2.01					
PK	2.468G	119.40	Inf	-Inf	32.37	3	Vertical	0	2.01					
PK	2.4856G	66.68	74.00	-7.32	32.43	3	Vertical	0	2.01					

HE40,BF_Nss1,(MCS0)_4TX

2452MHz_TX

13/02/2018



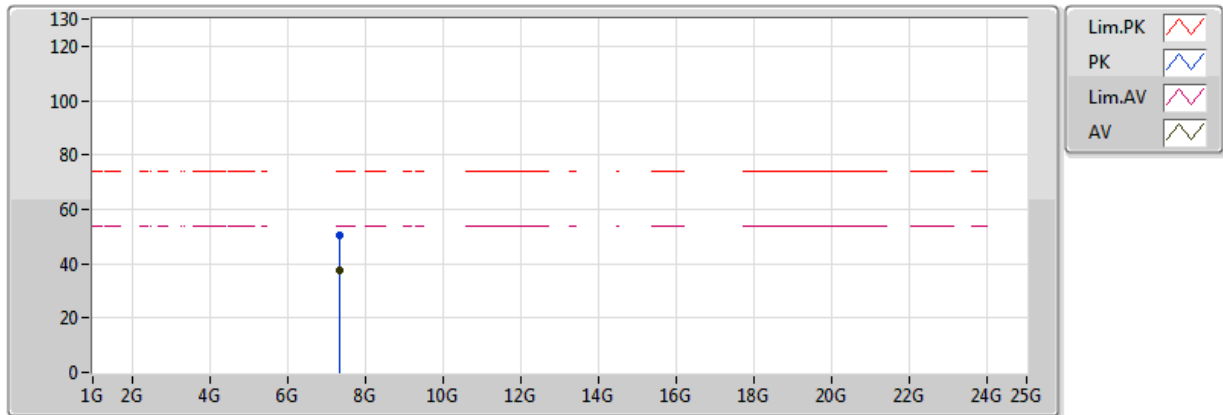
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.34996G	38.43	54.00	-15.57	10.98	3	Vertical	243	1.50					
PK	7.35404G	51.08	74.00	-22.92	10.98	3	Vertical	243	1.50					

HE40,BF_Nss1,(MCS0)_4TX

2452MHz_TX

13/02/2018



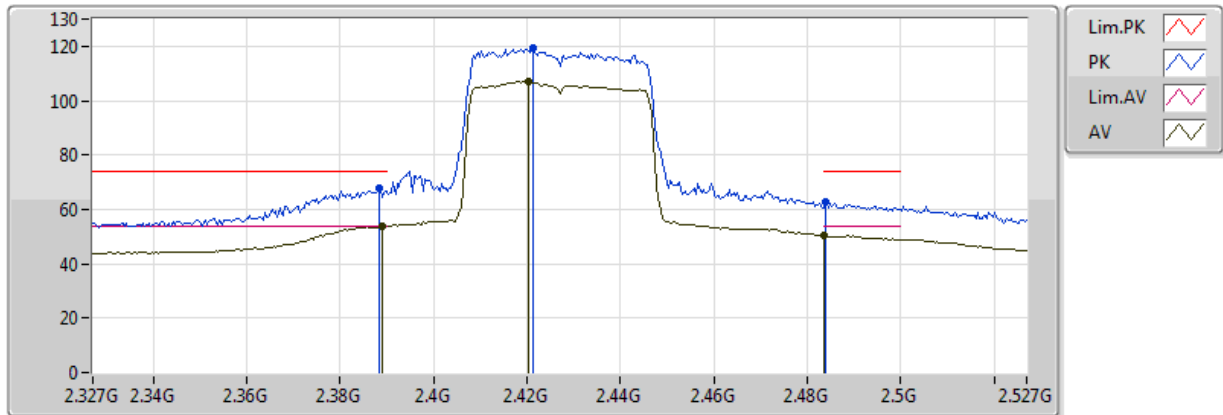
20180213
EUT_Z_4_TX_Dipole
Setting 96
03-J-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.3492G	37.63	54.00	-16.37	10.23	3	Horizontal	325	2.25					
PK	7.34792G	50.70	74.00	-23.30	10.23	3	Horizontal	325	2.25					

HE40,BF_Nss1,(MCS0)_4TX

2427MHz_TX

14/02/2018



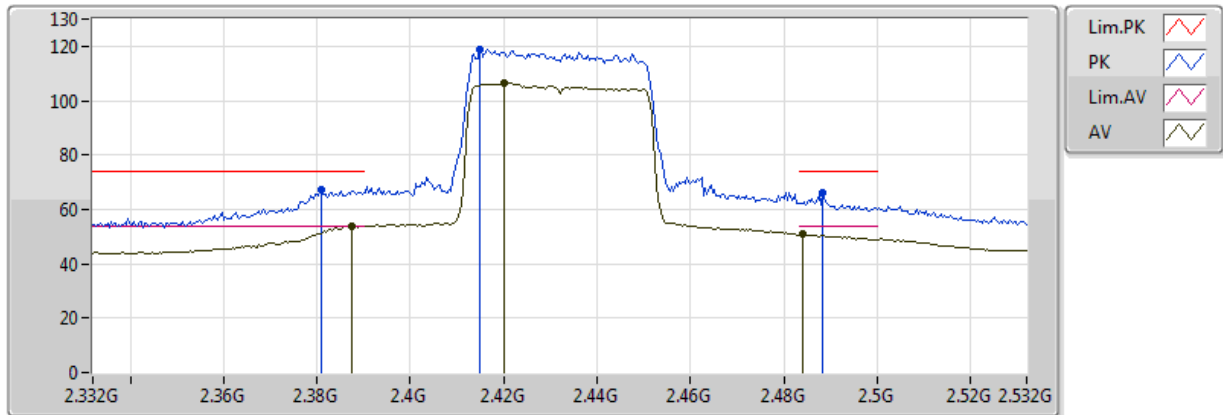
20180214
EUT_Z_4_TX_Dipole
Setting 72
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389G	53.85	54.00	-0.15	32.11	3	Vertical	312	1.70					
AV	2.4202G	107.07	Inf	-Inf	32.22	3	Vertical	312	1.70					
AV	2.483502G	50.52	54.00	-3.48	32.42	3	Vertical	312	1.70					
PK	2.3882G	68.06	74.00	-5.94	32.11	3	Vertical	312	1.70					
PK	2.4214G	119.11	Inf	-Inf	32.22	3	Vertical	312	1.70					
PK	2.4838G	62.59	74.00	-11.41	32.42	3	Vertical	312	1.70					

HE40,BF_Nss1,(MCS0)_4TX

2432MHz_TX

14/02/2018



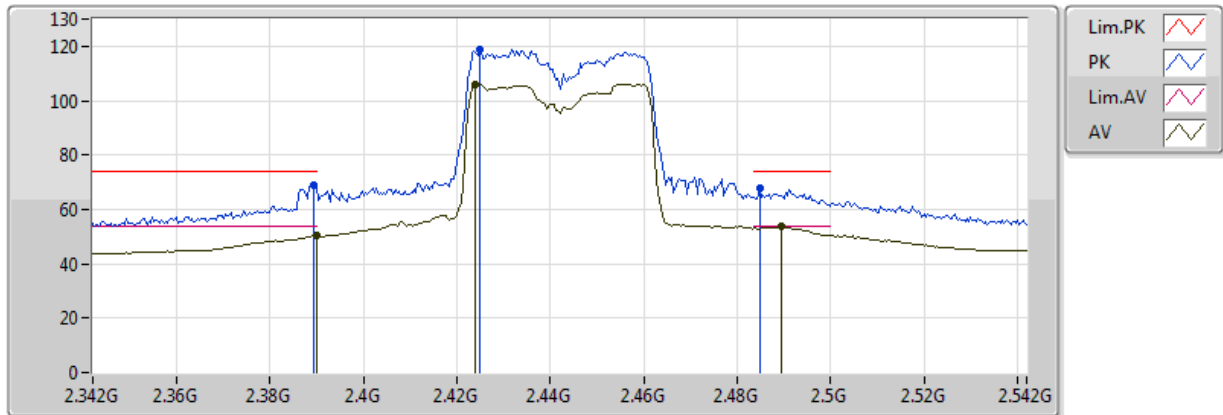
20180214
EUT_Z_4_TX_Dipole
Setting 71
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3876G	53.94	54.00	-0.06	32.11	3	Vertical	312	1.68					
AV	2.42G	106.46	Inf	-Inf	32.21	3	Vertical	312	1.68					
AV	2.484G	50.83	54.00	-3.17	32.42	3	Vertical	312	1.68					
PK	2.3808G	67.24	74.00	-6.76	32.09	3	Vertical	312	1.68					
PK	2.4148G	118.87	Inf	-Inf	32.20	3	Vertical	312	1.68					
PK	2.4884G	66.16	74.00	-7.84	32.44	3	Vertical	312	1.68					

HE40,BF_Nss1,(MCS0)_4TX

2442MHz_TX

14/02/2018



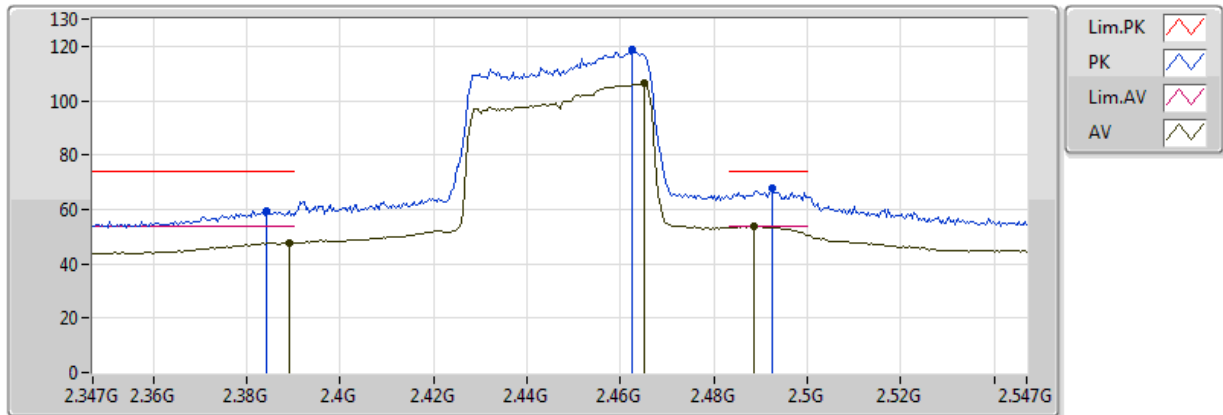
20180214
EUT_Z_4_TX_Dipole
Setting 73
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	50.65	54.00	-3.35	32.12	3	Vertical	3	2.15					
AV	2.424G	105.97	Inf	-Inf	32.23	3	Vertical	3	2.15					
AV	2.4896G	53.60	54.00	-0.40	32.44	3	Vertical	3	2.15					
PK	2.3892G	69.06	74.00	-4.94	32.12	3	Vertical	3	2.15					
PK	2.4248G	118.62	Inf	-Inf	32.23	3	Vertical	3	2.15					
PK	2.4848G	67.53	74.00	-6.47	32.43	3	Vertical	3	2.15					

HE40,BF_Nss1,(MCS0)_4TX

2447MHz_TX

14/02/2018



20180214
EUT_Z_4_TX_Dipole
Setting 66
06-L-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389G	47.68	54.00	-6.32	32.11	3	Vertical	359	1.47					
AV	2.465G	106.41	Inf	-Inf	32.36	3	Vertical	359	1.47					
AV	2.4886G	53.98	54.00	-0.02	32.44	3	Vertical	359	1.47					
PK	2.3842G	59.54	74.00	-14.46	32.10	3	Vertical	359	1.47					
PK	2.4626G	119.03	Inf	-Inf	32.35	3	Vertical	359	1.47					
PK	2.4926G	67.82	74.00	-6.18	32.45	3	Vertical	359	1.47					