

FCC Test Report

Equipment : DBDC ROUTER
Brand Name : Charter
Model No. : RAC2V1K
FCC ID : H8NRAC2V1K
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Function : ☒ Point-to-multipoint; ☐ Point-to-point
Applicant : Askey Computer Corp.
10F, NO.119, JIANKANG RD., ZHONGHE DIST., NEW
TAIPEI CITY 23585, TAIWAN
Manufacturer : Askey Computer Corp.
10F, NO.119, JIANKANG RD., ZHONGHE DIST., NEW
TAIPEI CITY 23585, TAIWAN

The product sample received on Feb. 15, 2017 and completely tested on May 11, 2017. We, SPORTON, 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., the test report shall not be reproduced except in full.

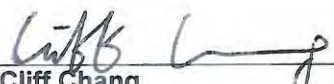

Cliff Chang
SPORTON INTERNATIONAL INC.





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Summary of Test Result

Conformance Test Specifications				
Report Clause	Ref. Std. Clause	Description	Limit	Result
1.1.2	15.203	Antenna Requirement	FCC 15.203	Complied
3.1	15.247(b)	Maximum Conducted Output Power	Power [dBm]:30	Complied
3.2	15.247(e)	Power Spectral Density	PSD [dBm/3kHz]:8	Complied
3.3	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied



SPORTON INTERNATIONAL INC.
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FCC ID: H8NRAC2V1K

1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	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	802.11n HT40	40	4TX
2.4-2.4835GHz	802.11n HT40-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.
- 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.	Brand	Part Number	Antenna Type	Connector	Gain (dBi)			Remark
					2.4G	5G B1	5G B4	
1	Airgain	N2420GS	PCB Antenna	I-PEX	1	-	-	2.4GHz TX/RX
2	Airgain	N2420GS	PCB Antenna	I-PEX	1	-	-	2.4GHz TX/RX
3	Airgain	N2420GS	PCB Antenna	I-PEX	1	-	-	2.4GHz TX/RX
4	Airgain	N2420GS	PCB Antenna	I-PEX	1	-	-	2.4GHz TX/RX
5	Airgain	M5x05C (Longer)	PCB Antenna	I-PEX	-	1.2	1.2	5GHz TX/RX
6	Airgain	M5x05C	PCB Antenna	I-PEX	-	1.2	1.2	5GHz TX/RX
7	Airgain	M5x05C	PCB Antenna	I-PEX	-	1.2	1.2	5GHz TX/RX
8	Airgain	M5x05C (Longer)	PCB Antenna	I-PEX	-	1.2	1.2	5GHz TX/RX

Note: The EUT has eight antennas.

For 2.4GHz function (4TX/4RX):

Ant. 1 (P1), Ant. 2 (P2), Ant. 3 (P3) and Ant. 4 (P4) could transmit/receive simultaneously.

For 5GHz function (4TX/4RX):

Ant. 5 (P1), Ant. 6 (P2), Ant. 7 (P3) and Ant. 8 (P4) could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

For Non-beanforming mode

Mode	DC	DCF(dB)
802.11b	0.994	0.026
802.11g	0.972	0.123
802.11n HT20	0.987	0.057
802.11n HT40	0.973	0.119

For beanforming mode

Mode	DC	DCF(dB)
802.11n HT20-BF	0.929	0.32
802.11n HT40-BF	0.913	0.40

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.		

1.1.5 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR711935-01AA and FR711935-01AC.

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

Modifications	Performance Checking
1. Revising the Ant. Gain of 2.4GHz to 1dBi. 2. Revising the Ant. Gain of 5GHz band 1/band 4 to 1.2dBi. 3. Removing Capacitor*3:(1000 pF: C1170 (bottom), C1173, C1176 (Top).	1. Maximum Conducted Output Power 2. Power Spectral Density 3. Emissions in Restricted Frequency Bands (Above 1GHz) All items changing channel as below: For Non-beanforming mode 11b/g/n HT20: CH1/ 2412MHz & CH11/ 2462MHz 11n HT40: CH3/ 2422MHz & CH9/ 2452MHz

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

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	Serway Li	22°C / 55%	May 02, 2017 ~ May 11, 2017
Radiated	03CH01-CB	Joy Tseng	22°C / 54%	May 11, 2017

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%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Index
802.11b_(1Mbps)_4TX	-
2412MHz	22.5
2462MHz	22.5
802.11g_(6Mbps)_4TX	-
2412MHz	18.5
2462MHz	16.5
802.11an HT20_Nss1,(MCS0)_4TX	-
2412MHz	18.5
2462MHz	16.5
802.11an HT40_Nss1,(MCS0)_4TX	-
2422MHz	16
2452MHz	17.5

2.2 The Worst Case Measurement Configuration

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

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

Note: The EUT can only be used at Y axis position.

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

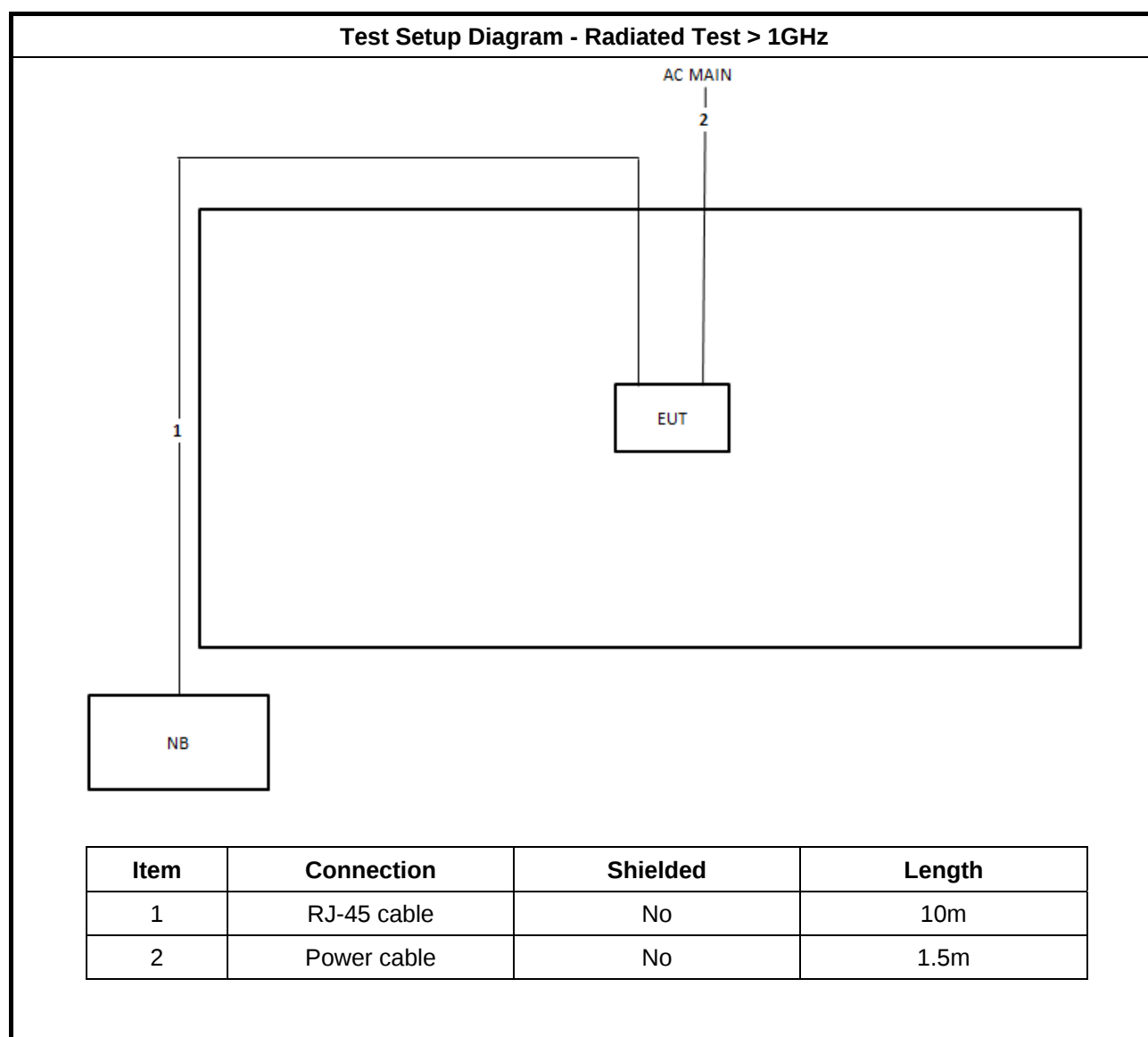
Accessories				
No.	Equipment Name	Brand Name	Model No.	Rating
1	Adapter 1	Sunny	SYS1564-3012-W2	INPUT: 100-240Vac, 50-60Hz, 1.0A MAX. OUTPUT: 12Vdc, 2.5A
2	Adapter 2	Ktec	KSA-36W-120250HU	INPUT: 100-240Vac, 50/60Hz, 1.0A OUTPUT: 12Vdc, 2.5A

Note: The power adapter does not affect the test result of RF tests, so only adapter 1 was tested and recorded in this report.

2.5 Support Equipment

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

2.6 Test Setup Diagram



3 Transmitter Test Result

3.1 Maximum Conducted Output Power

3.1.1 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):					
	<table> <tr> <td>-</td><td>Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm</td></tr> <tr> <td>-</td><td>Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm</td></tr> <tr> <td>-</td><td>Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm</td></tr> </table>	-	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	-
-	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.						

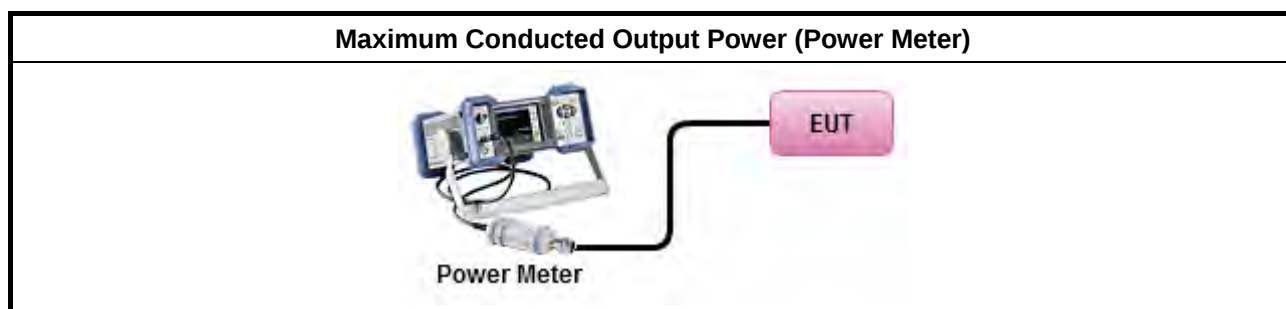
3.1.2 Measuring Instruments

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

3.1.3 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 9.1.2 Option 2 (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)
RF power meter and average over on/off periods with duty factor or gated trigger	
☒	Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM-G (using an RF average power meter).
☐	Refer as FCC KDB 558074, clause 9.1.2 PKPM1 Peak power meter method.
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]) $EIRP_{total} = P_{total} + DG$	

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Refer as Appendix A

3.2 Power Spectral Density

3.2.1 Power Spectral Density Limit

Power Spectral Density Limit
Power Spectral Density (PSD) $\leq$ 8 dBm/3kHz

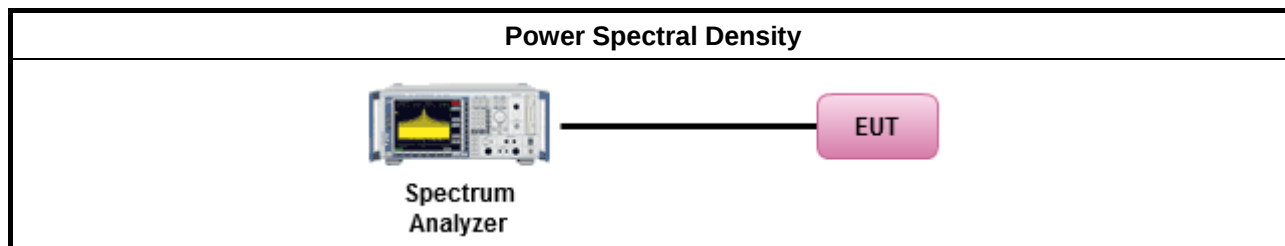
3.2.2 Measuring Instruments

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

3.2.3 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 AVGPSD-1 (spectral trace averaging).
☐ Refer as FCC KDB 558074, clause 10.4 Method AVGPSD-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 AVGPSD-1 Alt (spectral trace averaging).
☐ Refer as FCC KDB 558074, clause 10.6 Method AVGPSD-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.

3.2.4 Test Setup



3.2.5 Test Result of Power Spectral Density

Refer as Appendix B

3.3 Emissions in Restricted Frequency Bands

3.3.1 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.

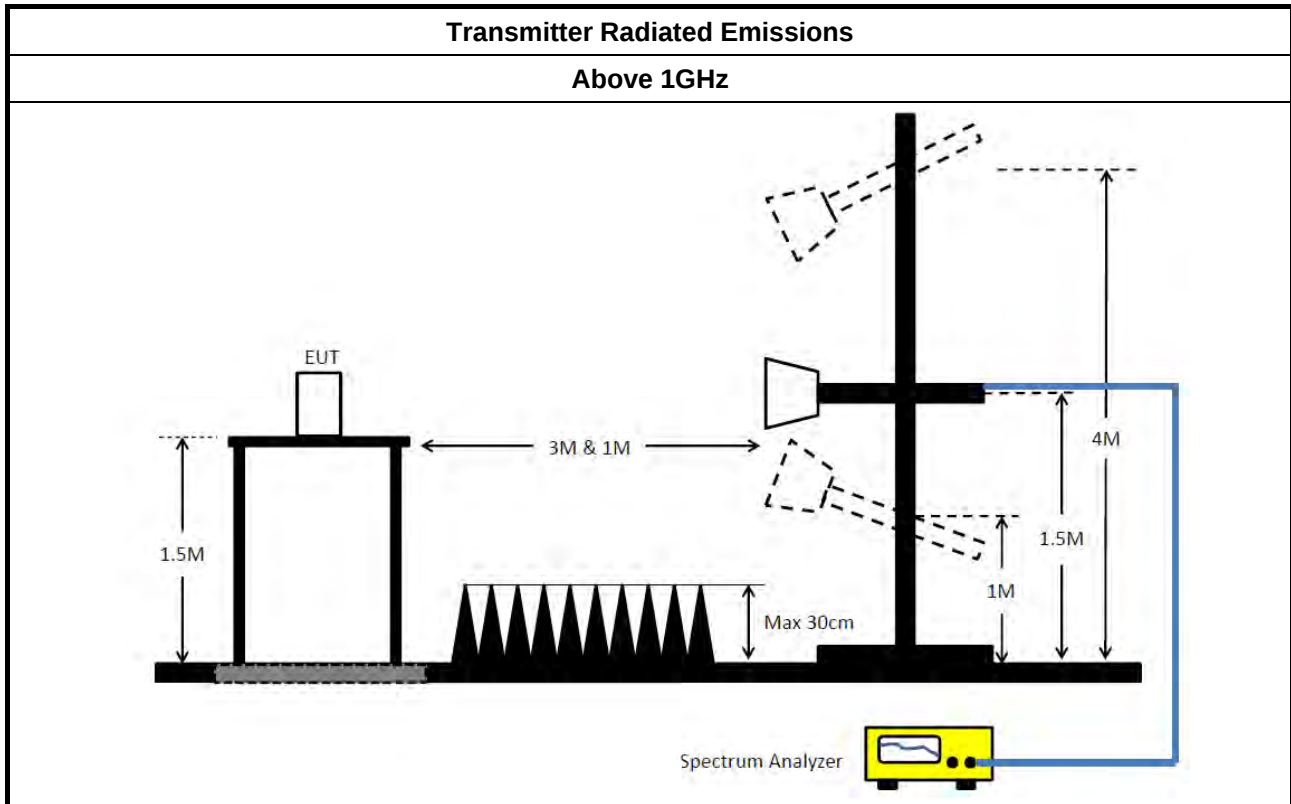
3.3.2 Measuring Instruments

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

3.3.3 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.

3.3.4 Test Setup



3.3.5 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix C

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jun. 28, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 03, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Conducted (TH01-CB)

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

**Summary**

Mode	Total Power (dBm)	Total Power (W)
802.11b_(1Mbps)_4TX	-	-
2.4-2.4835GHz	29.52	0.89536
802.11g_(6Mbps)_4TX	-	-
2.4-2.4835GHz	25.14	0.32659
802.11n HT20_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	25.07	0.32137
802.11n HT40_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	24.28	0.26792

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	1.00	23.17	23.02	23.16	23.25	29.17	30.00
2462MHz	Pass	1.00	23.50	23.41	23.71	23.37	29.52	30.00
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	1.00	19.12	19.09	19.03	19.22	25.14	30.00
2462MHz	Pass	1.00	17.42	17.56	17.22	17.51	23.45	30.00
802.11n HT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	1.00	18.89	19.05	19.10	19.15	25.07	30.00
2462MHz	Pass	1.00	17.72	17.49	17.47	17.83	23.65	30.00
802.11n HT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	1.00	16.75	16.78	16.69	16.82	22.78	30.00
2452MHz	Pass	1.00	18.28	18.15	18.12	18.48	24.28	30.00

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

Summary

Mode	PD (dBm/RBW)
802.11b_(1Mbps)_4TX	-
2.4-2.4835GHz	0.59
802.11g_(6Mbps)_4TX	-
2.4-2.4835GHz	-3.72
802.11a HT20_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	-4.60
802.11a HT40_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	-6.38

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)
802.11b_(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.02	-5.71	-5.28	-5.12	-5.35	0.59	6.98
2462MHz	Pass	7.02	-5.16	-5.50	-5.03	-4.77	0.42	6.98
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.02	-9.35	-8.25	-7.59	-7.73	-3.72	6.98
2462MHz	Pass	7.02	-9.11	-10.51	-10.19	-10.74	-5.37	6.98
802.11a HT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.02	-8.81	-9.26	-8.91	-8.90	-4.60	6.98
2462MHz	Pass	7.02	-10.65	-9.40	-10.96	-9.47	-6.41	6.98
802.11a HT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	7.02	-12.99	-13.60	-13.37	-12.79	-8.05	6.98
2452MHz	Pass	7.02	-9.79	-12.12	-10.58	-11.06	-6.38	6.98

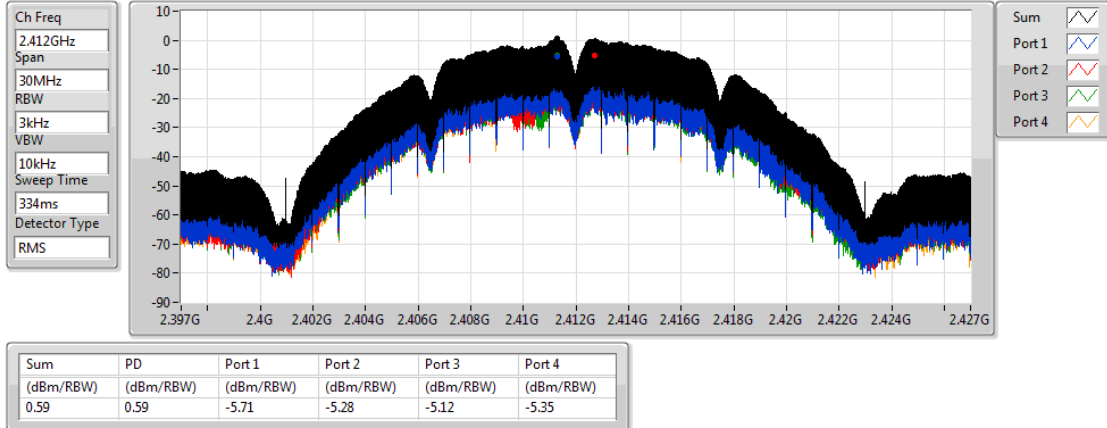
DG = Directional Gain; RBW=3kHz;

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

802.11b_(1Mbps)_4TX

PSD

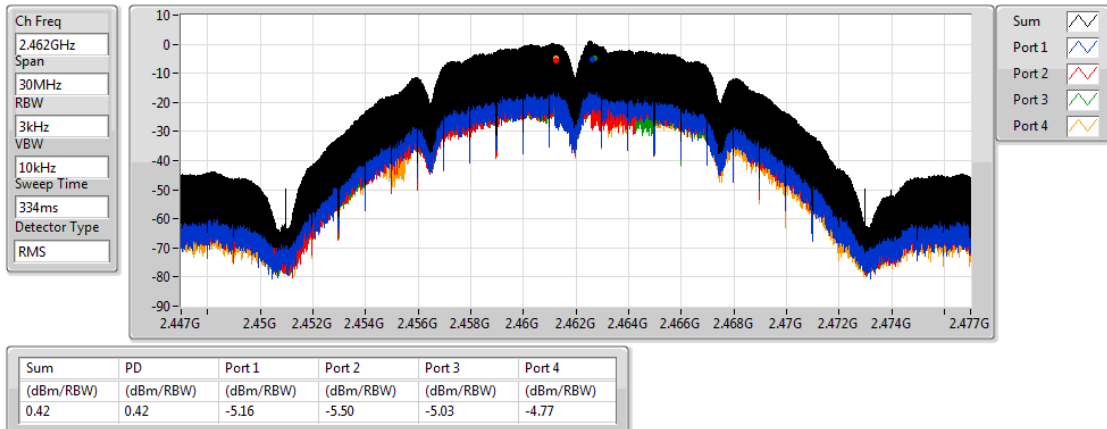
2412MHz



802.11b_(1Mbps)_4TX

PSD

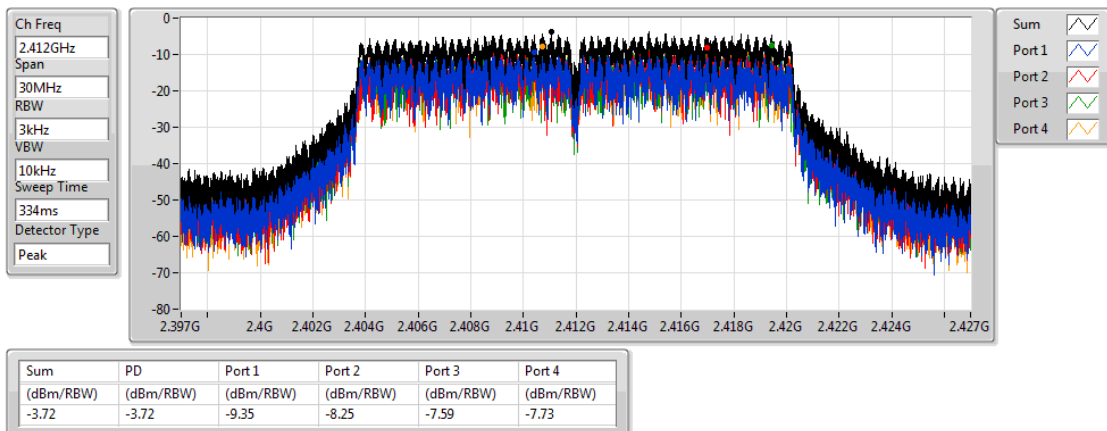
2462MHz



802.11g_(6Mbps)_4TX

PSD

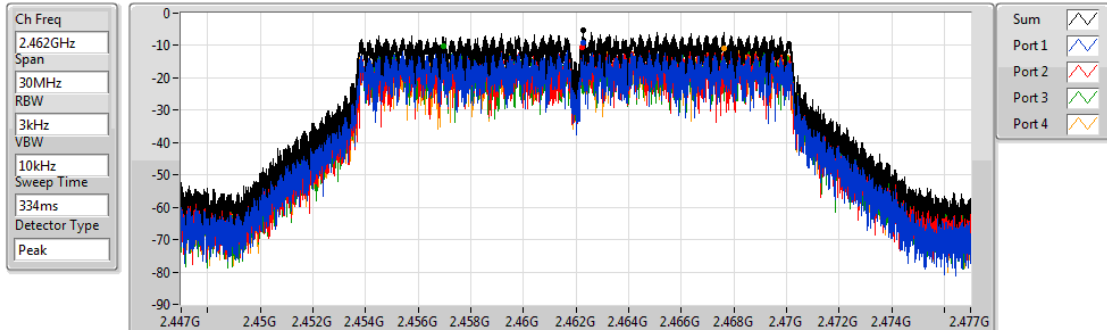
2412MHz



802.11g_(6Mbps)_4TX

PSD

2462MHz

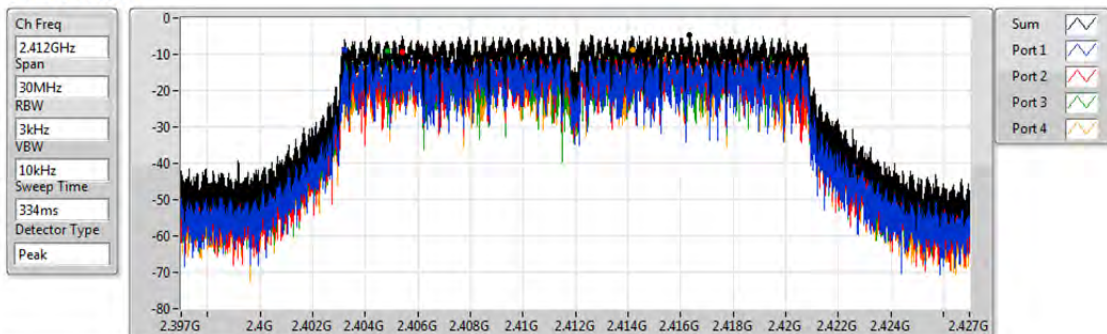


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-5.37	-5.37	-9.11	-10.51	-10.19	-10.74

802.11n HT20_Nss1,(MCS0)_4TX

PSD

2412MHz

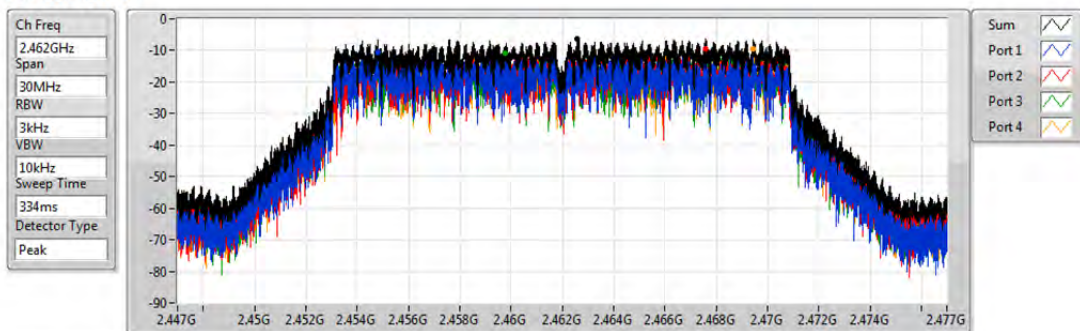


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.60	-4.60	-8.81	-9.26	-8.91	-8.90

802.11n HT20_Nss1,(MCS0)_4TX

PSD

2462MHz

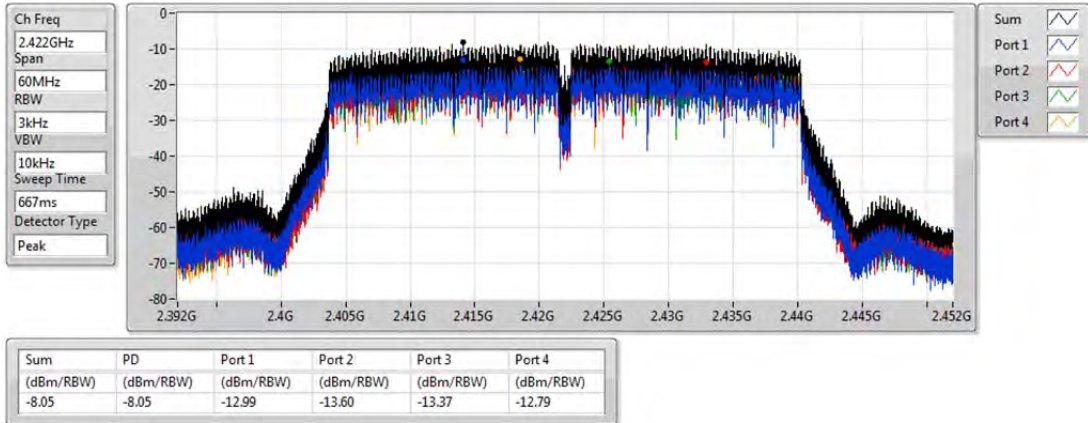


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-6.41	-6.41	-10.65	-9.40	-10.96	-9.47

802.11n HT40_Nss1,(MCS0)_4TX

PSD

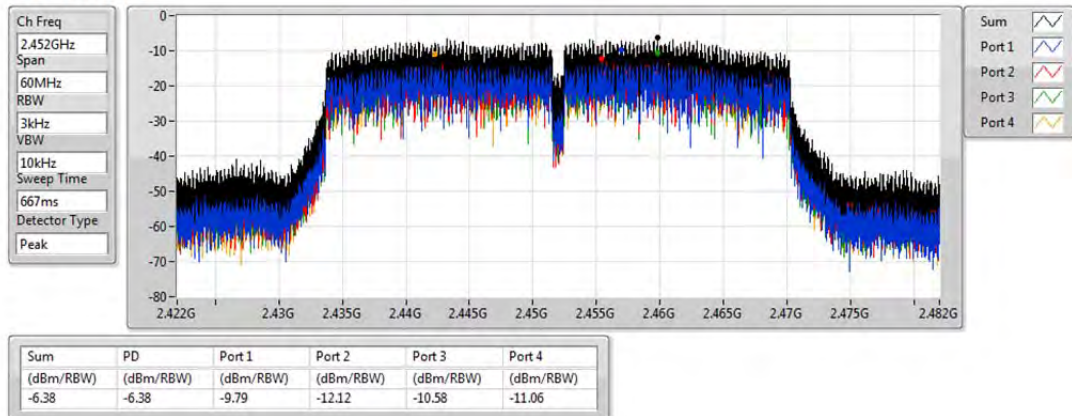
2422MHz



802.11n HT40_Nss1,(MCS0)_4TX

PSD

2452MHz

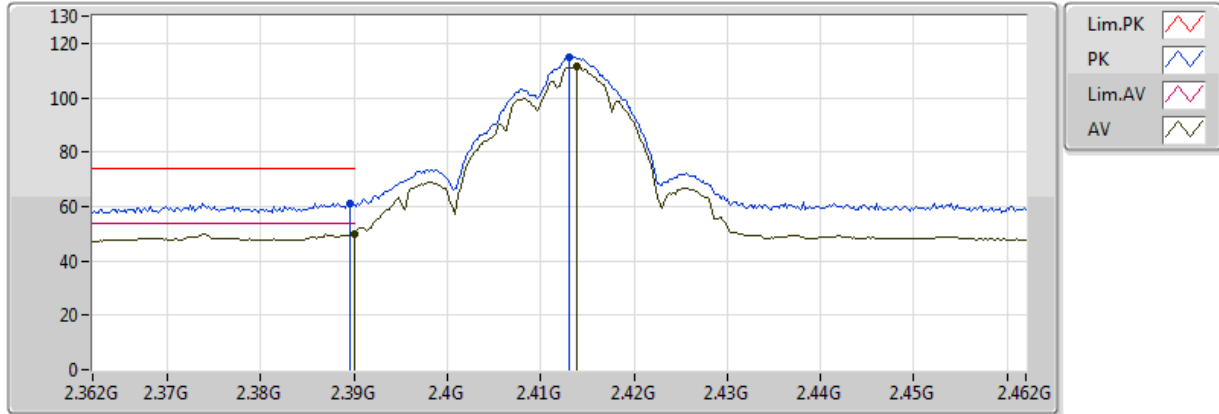


**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.389G	53.99	54.00	-0.01	31.87	3	H	113	1.72	-

802.11b_(1Mbps)_4TX

2412MHz_TX

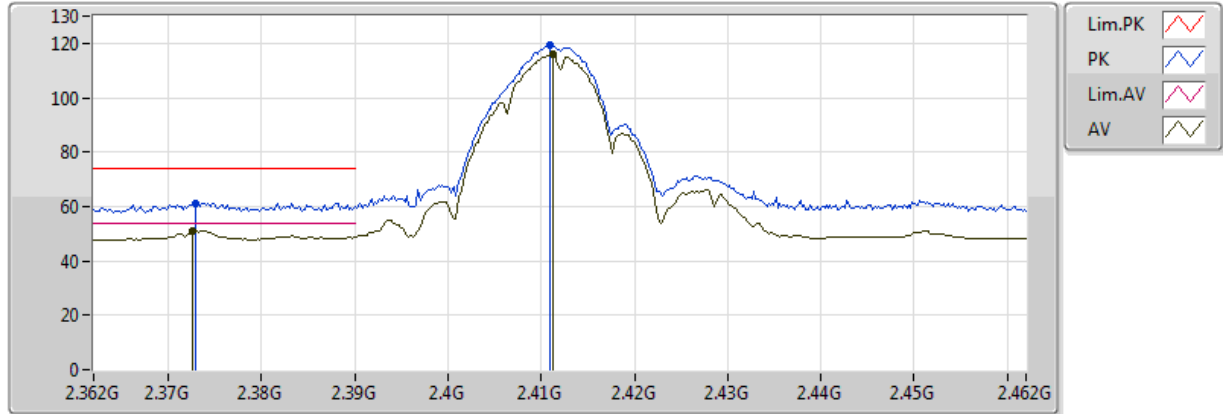


20170509
EUT Y 4TX
Setting 22.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	49.83	54.00	-4.17	31.87	3	V	20	1.58	-
AV	2.4138G	111.46	Inf	-Inf	31.94	3	V	20	1.58	-
PK	2.3896G	61.07	74.00	-12.93	31.87	3	V	20	1.58	-
PK	2.413G	114.78	Inf	-Inf	31.94	3	V	20	1.58	-

802.11b_(1Mbps)_4TX

2412MHz_TX

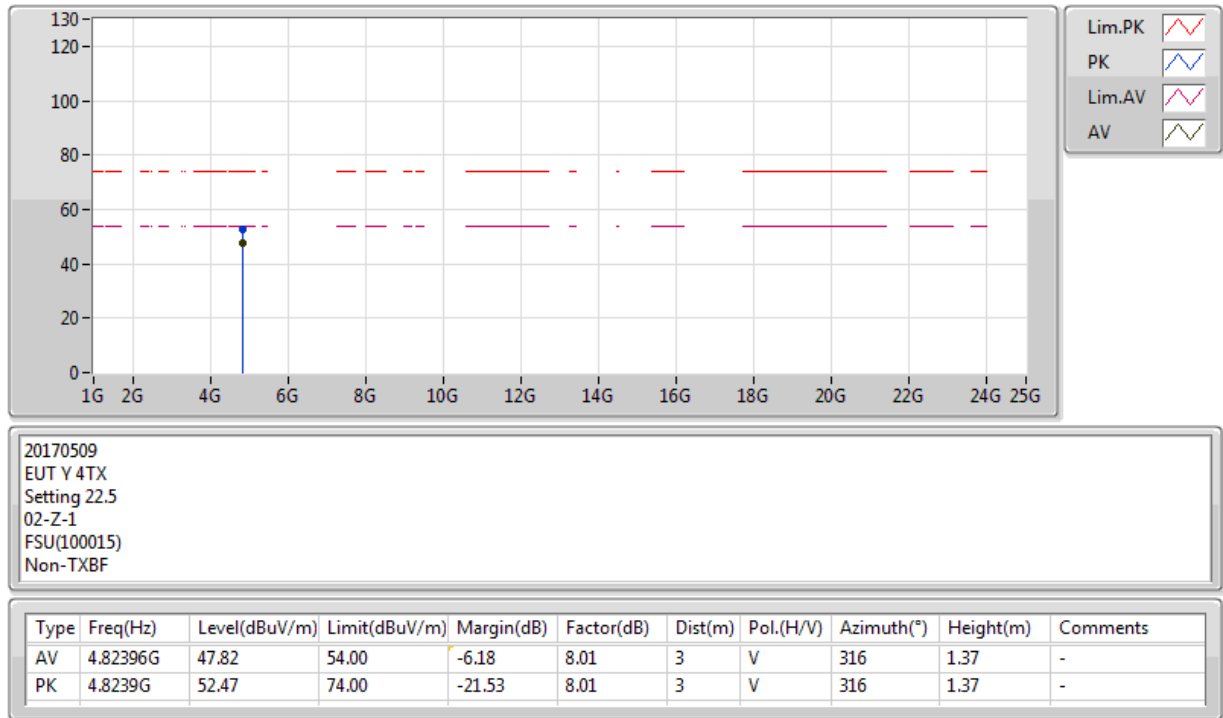


20170509
EUT Y 4TX
Setting 22.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3726G	51.14	54.00	-2.86	31.83	3	H	113	1.93	-
AV	2.4112G	115.90	Inf	-Inf	31.93	3	H	113	1.93	-
PK	2.373G	61.32	74.00	-12.68	31.83	3	H	113	1.93	-
PK	2.411G	119.42	Inf	-Inf	31.93	3	H	113	1.93	-

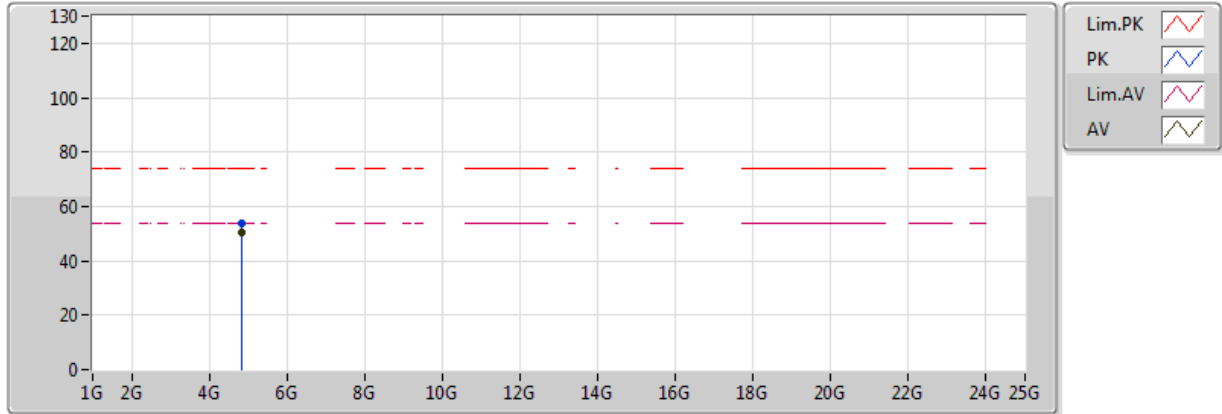
802.11b_(1Mbps)_4TX

2412MHz_TX



802.11b_(1Mbps)_4TX

2412MHz_TX

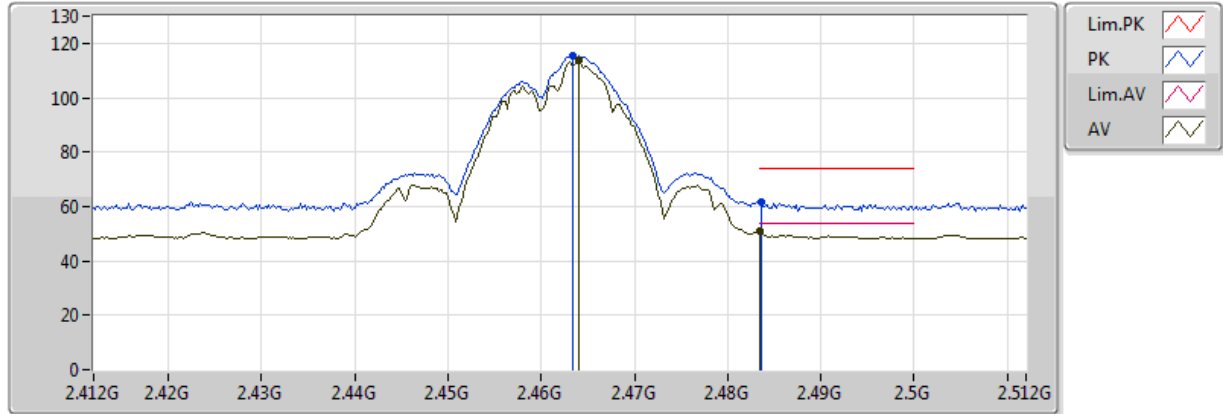


20170509
EUT Y 4TX
Setting 22.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82398G	50.36	54.00	-3.64	8.01	3	H	203	2.63	-
PK	4.82394G	53.98	74.00	-20.02	8.01	3	H	203	2.63	-

802.11b_(1Mbps)_4TX

2462MHz_TX

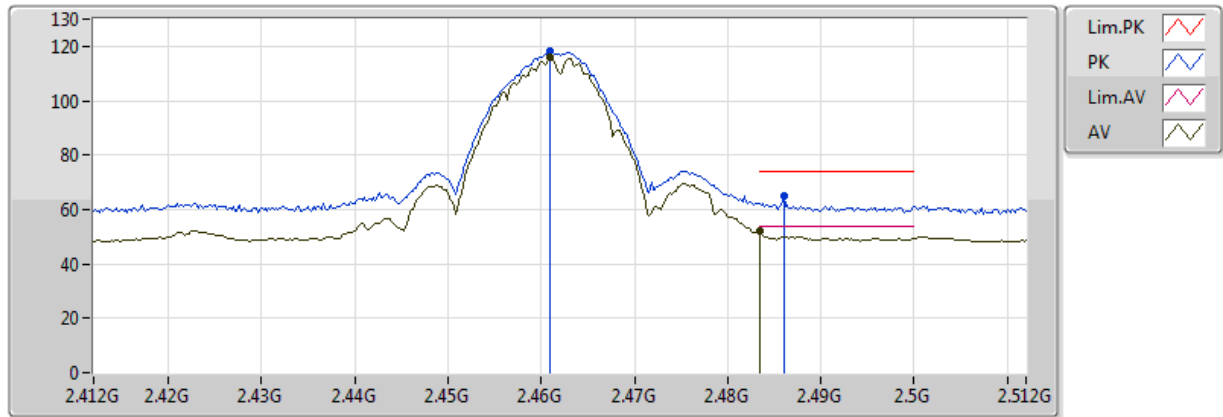


20170509
EUT Y 4TX
Setting 22.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.464G	113.51	Inf	-Inf	32.07	3	V	26	1.87	-
AV	2.483502G	51.00	54.00	-3.00	32.13	3	V	26	1.87	-
PK	2.4634G	115.38	Inf	-Inf	32.07	3	V	26	1.87	-
PK	2.4836G	61.64	74.00	-12.36	32.13	3	V	26	1.87	-

802.11b_(1Mbps)_4TX

2462MHz_TX



20170509
EUT Y 4TX
Setting 22.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.461G	115.88	Inf	-Inf	32.06	3	H	104	2.10	-
AV	2.483502G	51.96	54.00	-2.04	32.13	3	H	104	2.10	-
PK	2.461G	118.05	Inf	-Inf	32.06	3	H	104	2.10	-
PK	2.486G	65.16	74.00	-8.84	32.13	3	H	104	2.10	-

802.11b_(1Mbps)_4TX

2462MHz_TX



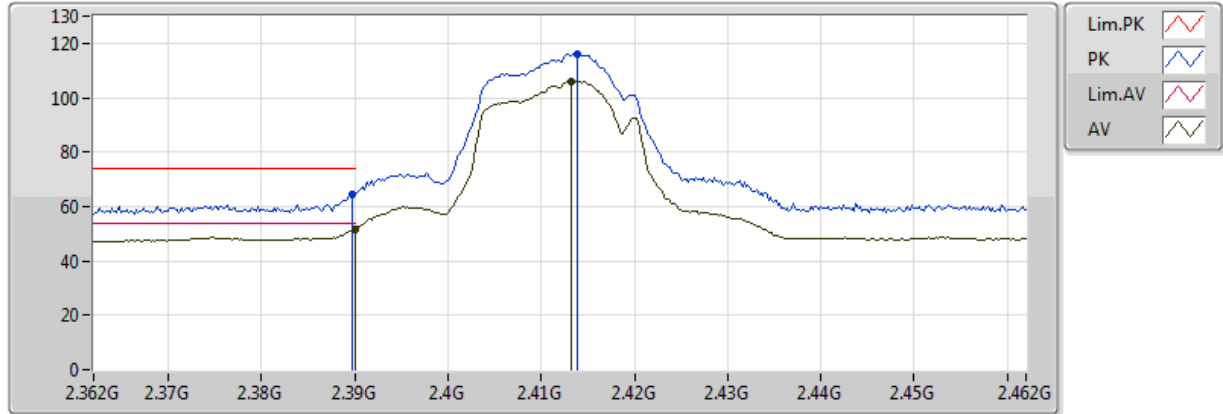
802.11b_(1Mbps)_4TX

2462MHz_TX



802.11g_(6Mbps)_4TX

2412MHz_TX

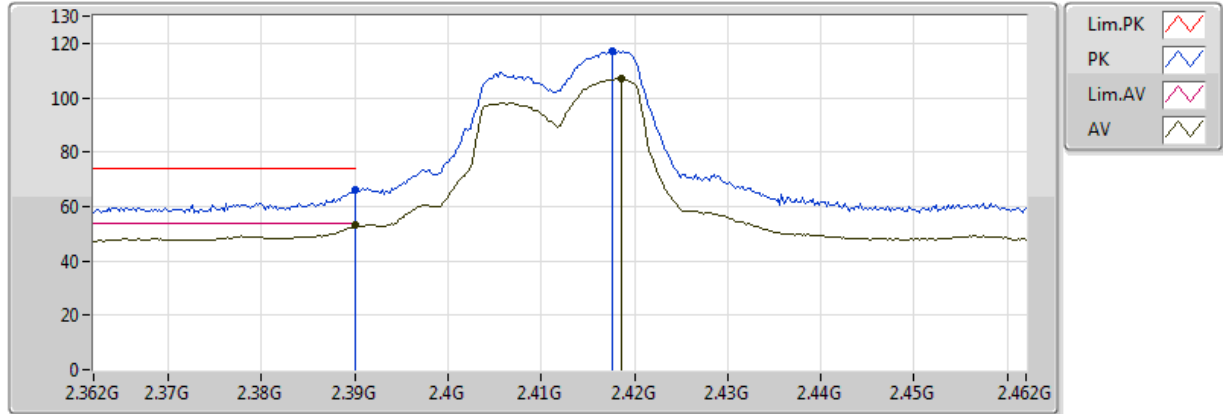


20170508
EUT Y 4TX
Setting 18.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	51.79	54.00	-2.21	31.87	3	V	47	1.84	-
AV	2.4132G	106.01	Inf	-Inf	31.94	3	V	47	1.84	-
PK	2.3898G	64.42	74.00	-9.58	31.87	3	V	47	1.84	-
PK	2.4138G	116.01	Inf	-Inf	31.94	3	V	47	1.84	-

802.11g_(6Mbps)_4TX

2412MHz_TX

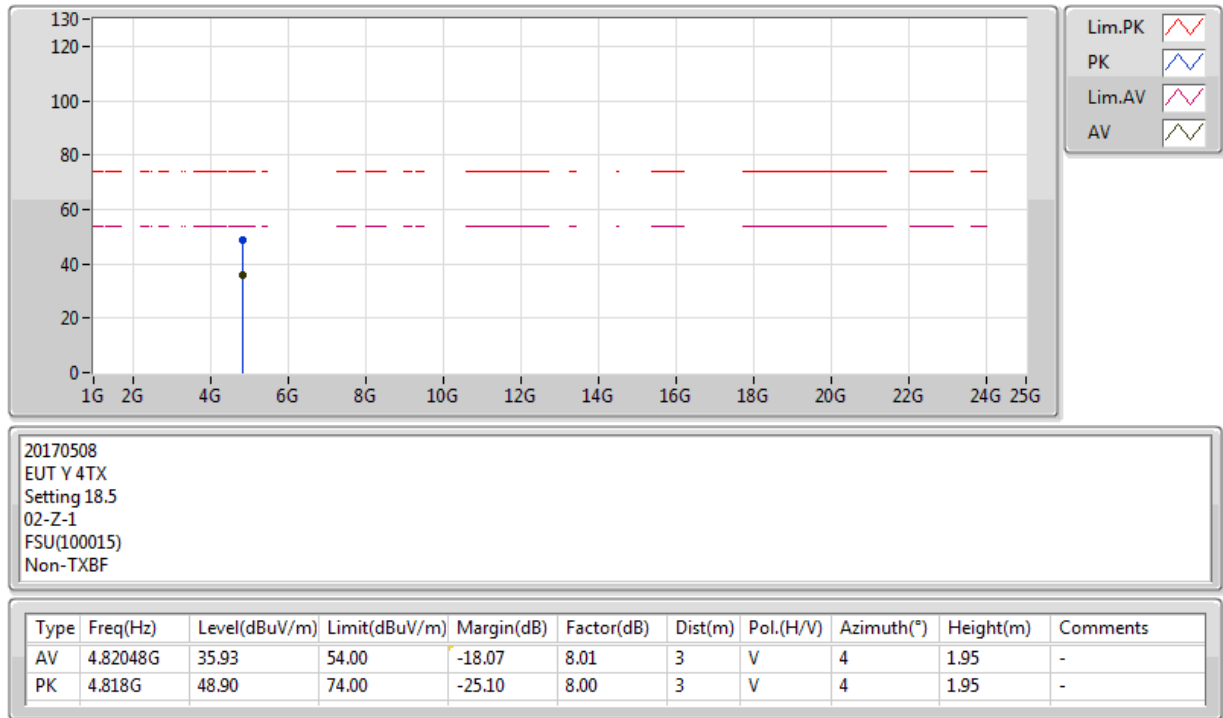


20170508
EUT Y 4TX
Setting 18.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	53.45	54.00	-0.55	31.87	3	H	112	2.18	-
AV	2.4186G	106.91	Inf	-Inf	31.95	3	H	112	2.18	-
PK	2.39G	66.33	74.00	-7.67	31.87	3	H	112	2.18	-
PK	2.4176G	117.38	Inf	-Inf	31.95	3	H	112	2.18	-

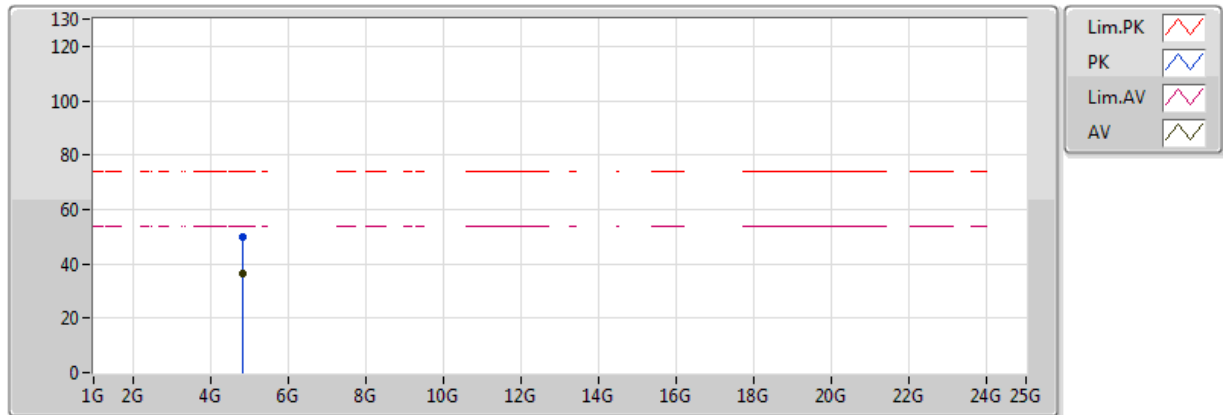
802.11g_(6Mbps)_4TX

2412MHz_TX



802.11g_(6Mbps)_4TX

2412MHz_TX

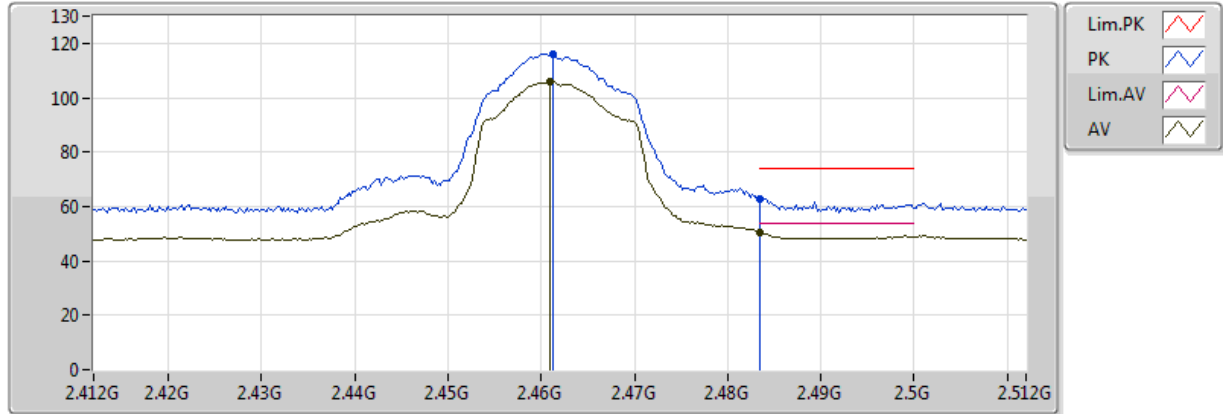


20170508
EUT Y 4TX
Setting 18.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.81968G	36.15	54.00	-17.85	8.00	3	H	263	1.00	-
PK	4.82104G	49.97	74.00	-24.03	8.01	3	H	263	1.00	-

802.11g_(6Mbps)_4TX

2462MHz_TX

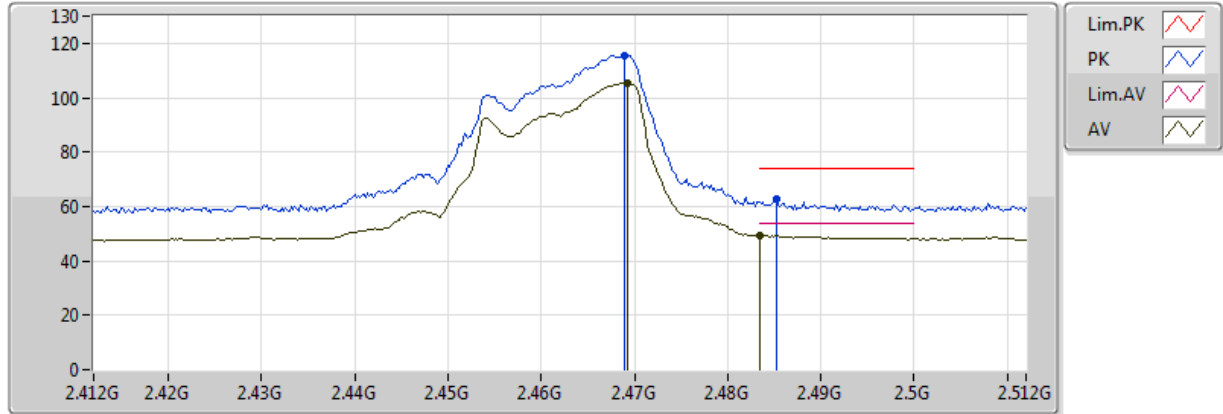


20170509
EUT Y 4TX
Setting 16.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.461G	106.09	Inf	-Inf	32.06	3	V	106	1.83	-
AV	2.483502G	50.33	54.00	-3.67	32.13	3	V	106	1.83	-
PK	2.4612G	116.02	Inf	-Inf	32.07	3	V	106	1.83	-
PK	2.483502G	62.84	74.00	-11.16	32.13	3	V	106	1.83	-

802.11g_(6Mbps)_4TX

2462MHz_TX

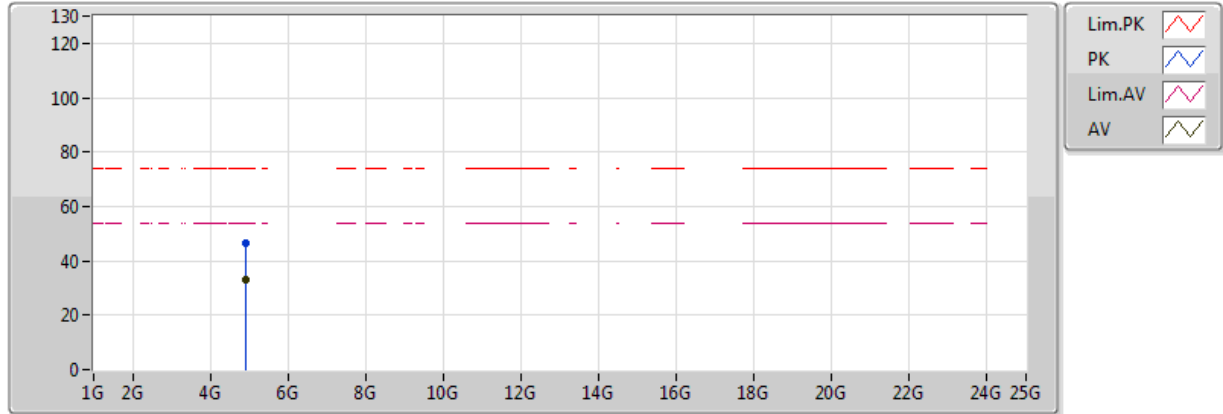


20170509
EUT Y 4TX
Setting 16.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4692G	105.47	Inf	-Inf	32.09	3	H	86	2.79	-
AV	2.483502G	49.33	54.00	-4.67	32.13	3	H	86	2.79	-
PK	2.469G	115.48	Inf	-Inf	32.09	3	H	86	2.79	-
PK	2.4852G	62.70	74.00	-11.30	32.13	3	H	86	2.79	-

802.11g_(6Mbps)_4TX

2462MHz_TX

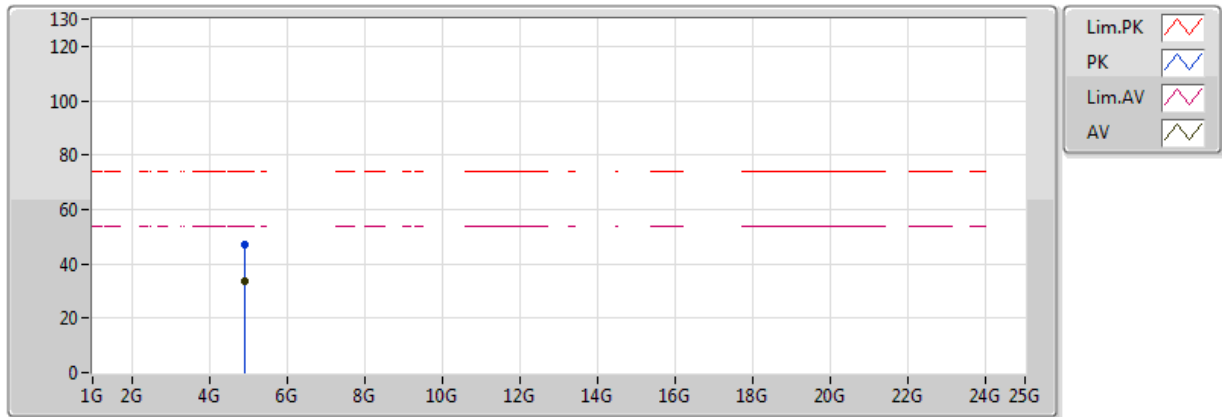


20170509
EUT Y 4TX
Setting 16.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92772G	33.29	54.00	-20.71	8.31	3	V	196	2.29	-
PK	4.92216G	46.74	74.00	-27.26	8.29	3	V	196	2.29	-

802.11g_(6Mbps)_4TX

2462MHz_TX

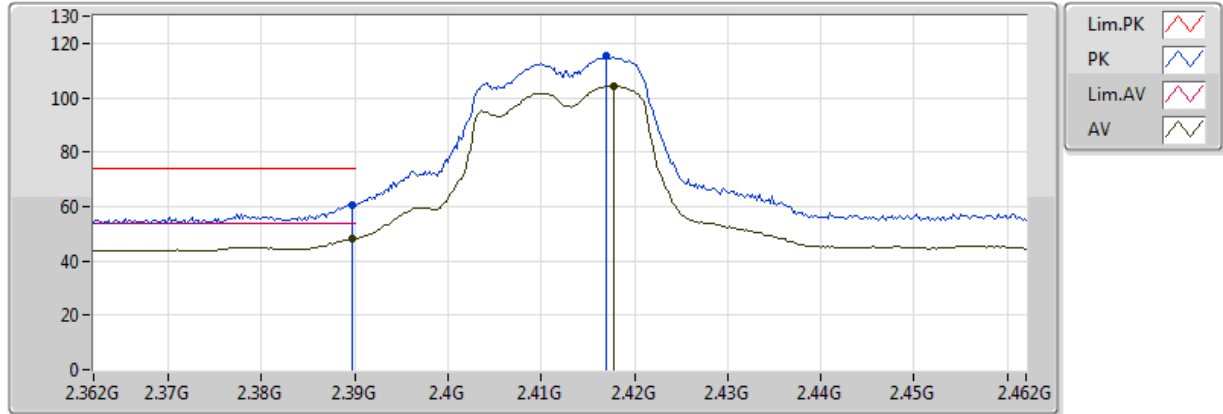


20170509
EUT Y 4TX
Setting 16.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92436G	33.46	54.00	-20.54	8.30	3	H	220	1.04	-
PK	4.9256G	47.11	74.00	-26.89	8.30	3	H	220	1.04	-

802.11n HT20_Nss1,(MCS0)_4TX

2412MHz_TX

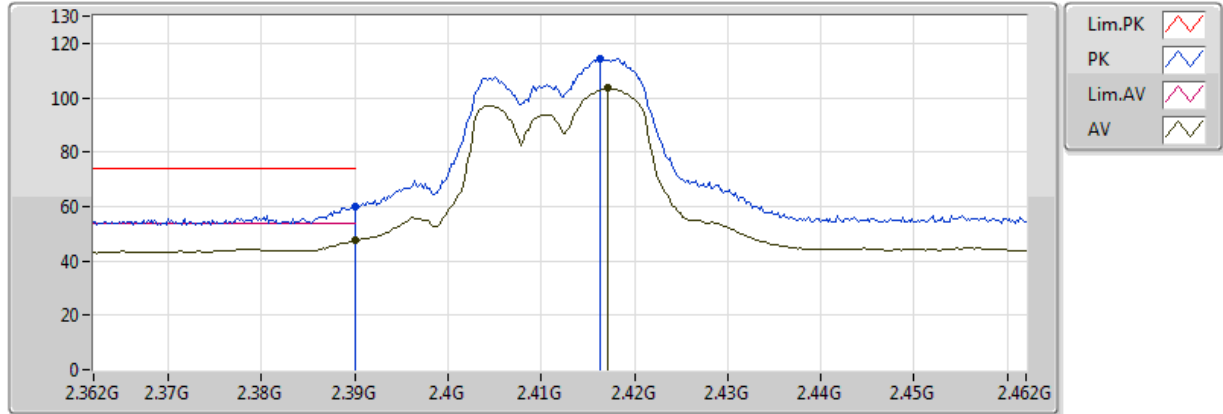


20170428
EUT_Y_4TX
Setting 18.5
02-N-2
FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	48.30	54.00	-5.70	30.62	3	V	58	1.21	-
AV	2.4178G	104.34	Inf	-Inf	30.71	3	V	58	1.21	-
PK	2.3898G	60.55	74.00	-13.45	30.62	3	V	58	1.21	-
PK	2.417G	115.18	Inf	-Inf	30.70	3	V	58	1.21	-

802.11n HT20_Nss1,(MCS0)_4TX

2412MHz_TX

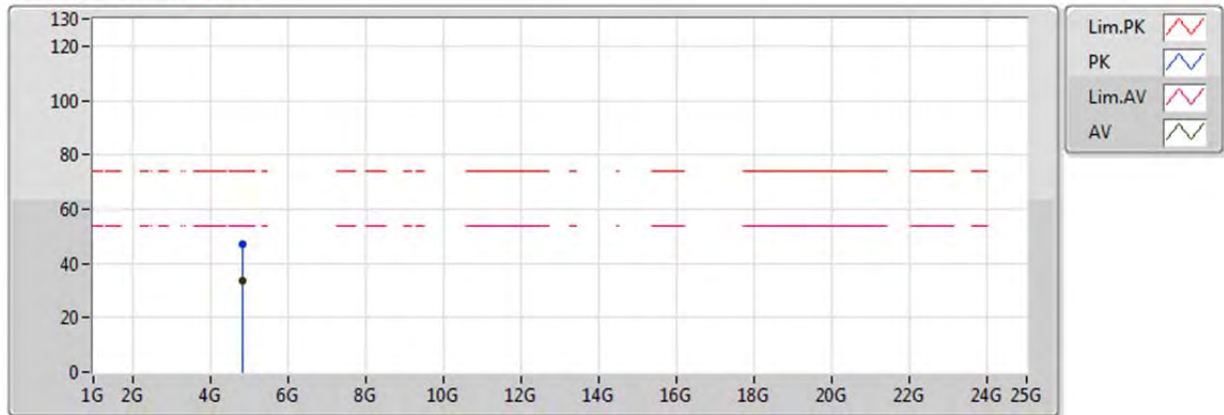


20170428
EUT_Y_4TX
Setting 18.5
02-N-2
FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	47.51	54.00	-6.49	30.62	3	H	190	1.50	-
AV	2.4172G	103.41	Inf	-Inf	30.71	3	H	190	1.50	-
PK	2.39G	59.68	74.00	-14.32	30.62	3	H	190	1.50	-
PK	2.4164G	114.56	Inf	-Inf	30.70	3	H	190	1.50	-

802.11n HT20_Nss1,(MCS0)_4TX

2412MHz_TX

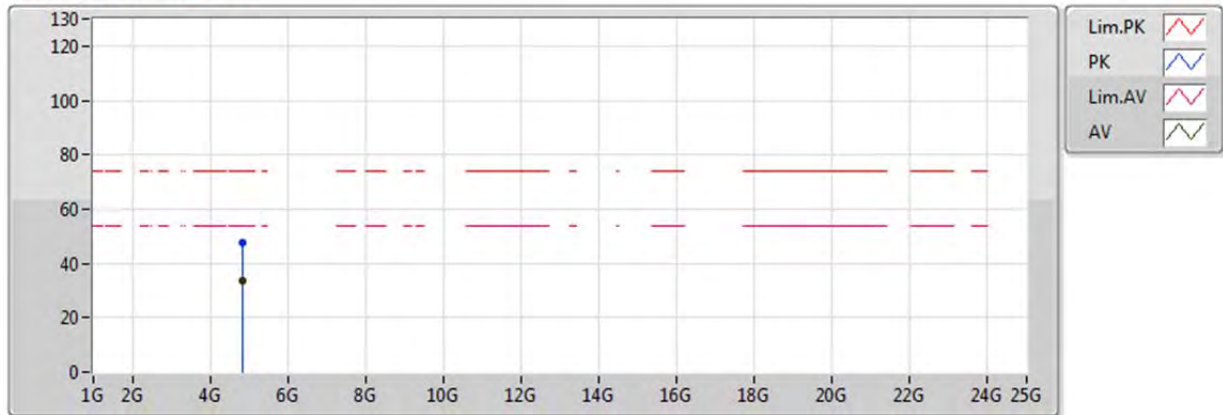


20170508
EUT Y 4TX
Setting 18.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82116G	33.50	54.00	-20.50	8.01	3	V	201	2.07	-
PK	4.8238G	47.13	74.00	-26.87	8.01	3	V	201	2.07	-

802.11n HT20_Nss1,(MCS0)_4TX

2412MHz_TX

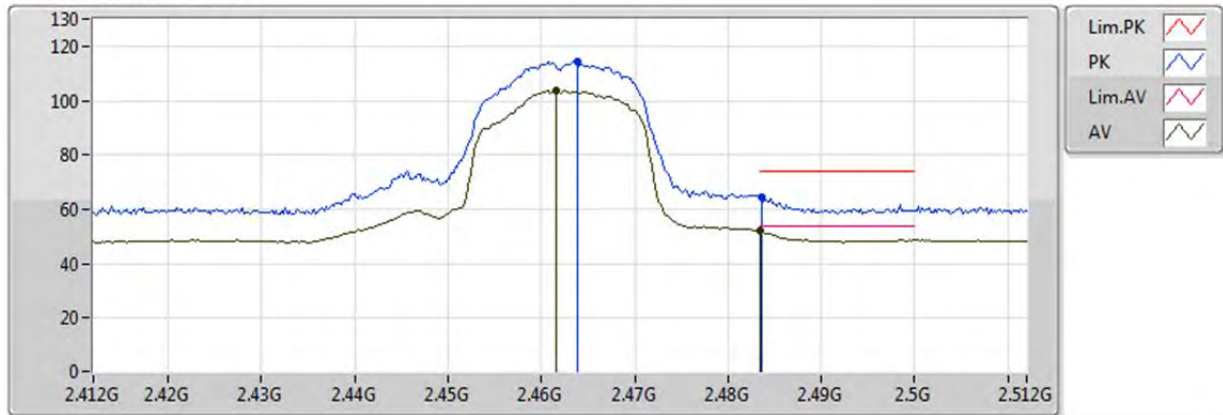


20170508
EUT Y 4TX
Setting 18.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.81804G	33.55	54.00	-20.45	8.00	3	H	134	1.43	-
PK	4.822G	47.43	74.00	-26.57	8.01	3	H	134	1.43	-

802.11n HT20_Nss1,(MCS0)_4TX

2462MHz_TX

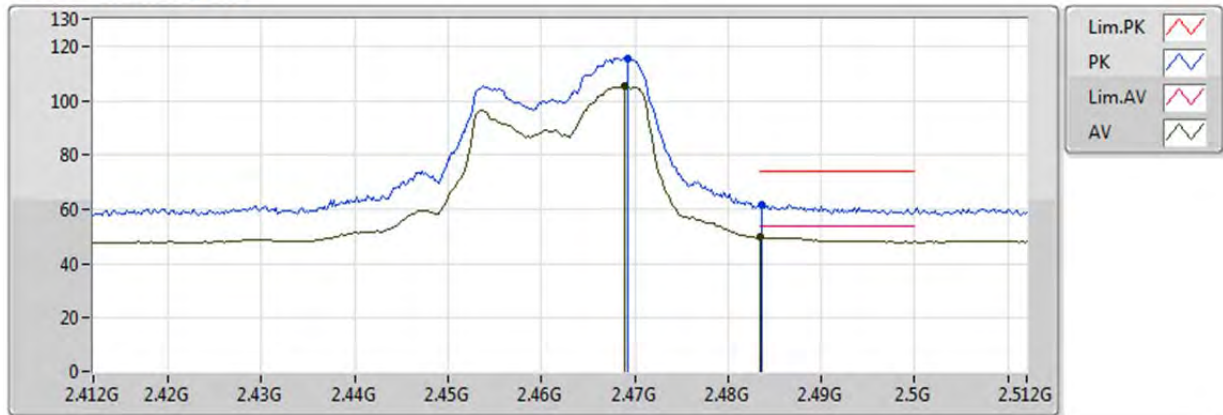


20170509
EUT Y 4TX
Setting 16.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4616G	103.51	Inf	-Inf	32.07	3	V	88	1.83	-
AV	2.483502G	51.90	54.00	-2.10	32.13	3	V	88	1.83	-
PK	2.4638G	114.52	Inf	-Inf	32.07	3	V	88	1.83	-
PK	2.4836G	64.23	74.00	-9.77	32.13	3	V	88	1.83	-

802.11n HT20_Nss1,(MCS0)_4TX

2462MHz_TX

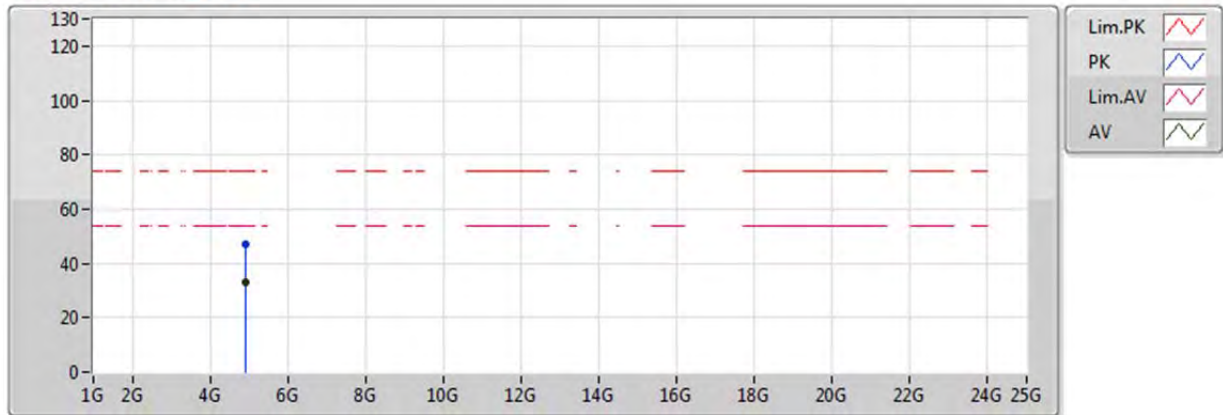


20170509
EUT Y 4TX
Setting 16.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.469G	105.45	Inf	-Inf	32.09	3	H	105	2.79	-
AV	2.483502G	49.67	54.00	-4.33	32.13	3	H	105	2.79	-
PK	2.4692G	115.65	Inf	-Inf	32.09	3	H	105	2.79	-
PK	2.4836G	61.85	74.00	-12.15	32.13	3	H	105	2.79	-

802.11n HT20_Nss1,(MCS0)_4TX

2462MHz_TX

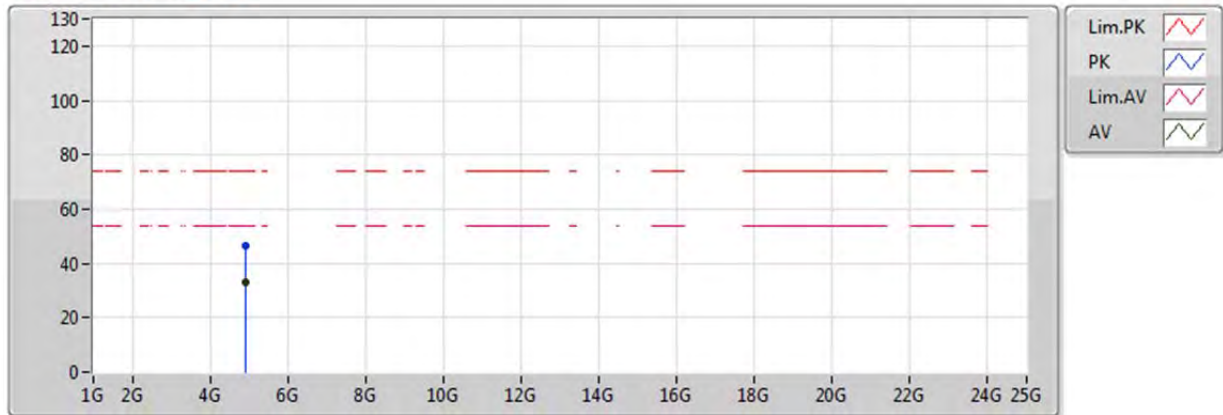


20170509
EUT Y 4TX
Setting 16.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.93156G	33.28	54.00	-20.72	8.32	3	V	216	2.00	-
PK	4.93164G	46.93	74.00	-27.07	8.32	3	V	216	2.00	-

802.11n HT20_Nss1,(MCS0)_4TX

2462MHz_TX

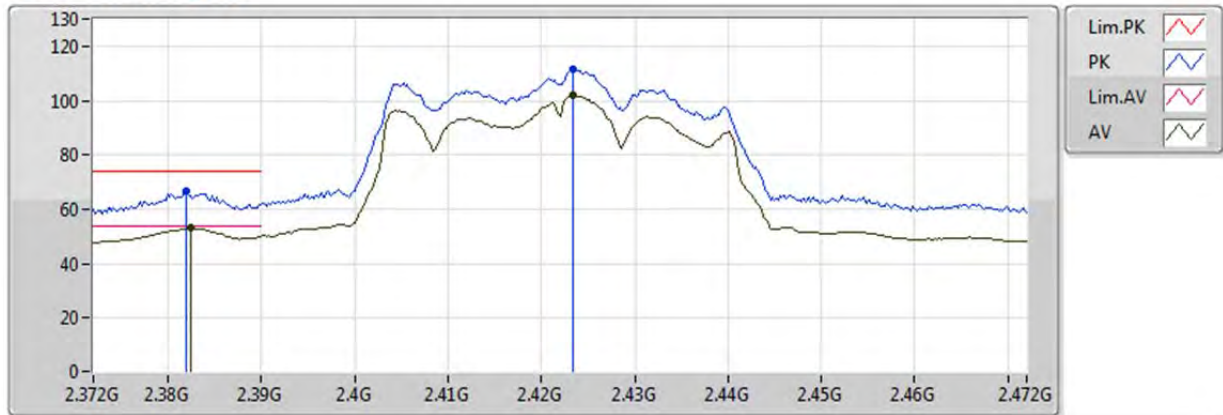


20170509
EUT Y 4TX
Setting 16.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92988G	33.20	54.00	-20.80	8.31	3	H	195	1.28	-
PK	4.93168G	46.70	74.00	-27.30	8.32	3	H	195	1.28	-

802.11n HT40_Nss1,(MCS0)_4TX

2422MHz_TX

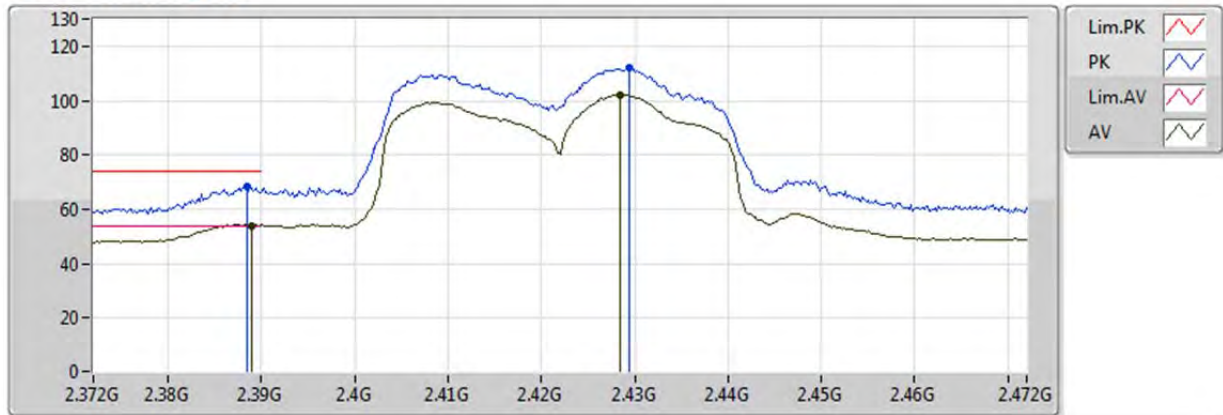


20170508
EUT Y 4TX
Setting 16
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3824G	53.00	54.00	-1.00	31.85	3	V	40	1.86	-
AV	2.4234G	101.75	Inf	-Inf	31.96	3	V	40	1.86	-
PK	2.382G	66.66	74.00	-7.34	31.85	3	V	40	1.86	-
PK	2.4234G	111.48	Inf	-Inf	31.96	3	V	40	1.86	-

802.11n HT40_Nss1,(MCS0)_4TX

2422MHz_TX

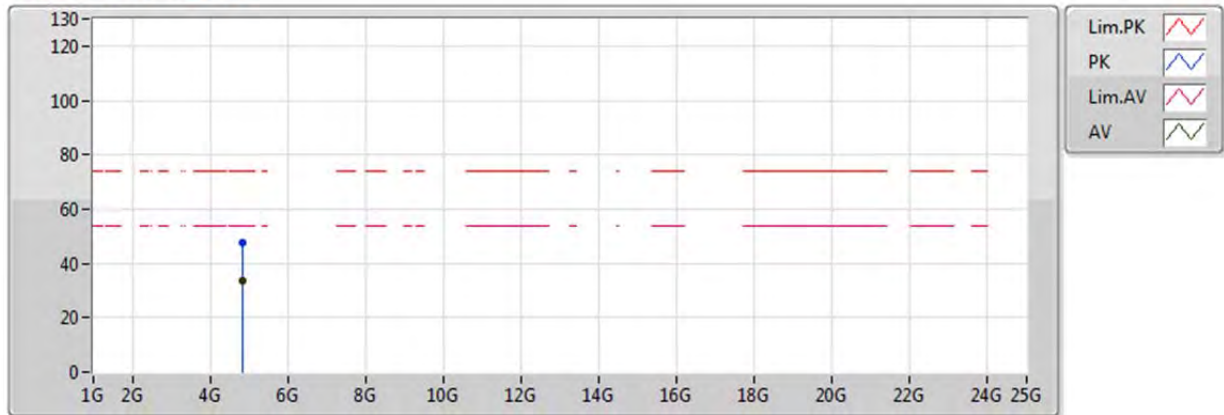


20170508
EUT Y 4TX
Setting 16
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389G	53.99	54.00	-0.01	31.87	3	H	113	1.72	-
AV	2.4284G	102.00	Inf	-Inf	31.98	3	H	113	1.72	-
PK	2.3884G	68.50	74.00	-5.50	31.87	3	H	113	1.72	-
PK	2.4294G	112.22	Inf	-Inf	31.98	3	H	113	1.72	-

802.11n HT40_Nss1,(MCS0)_4TX

2422MHz_TX

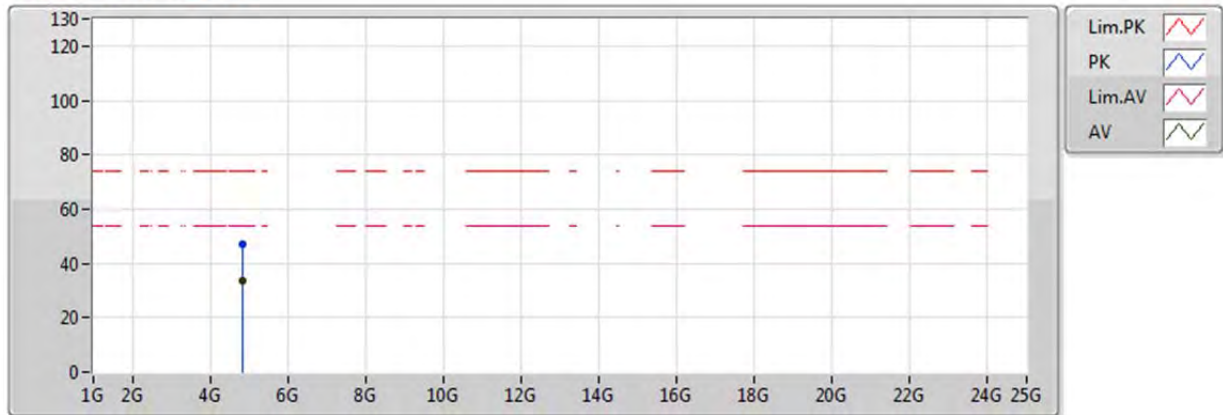


20170508
EUT Y 4TX
Setting 16
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82456G	33.35	54.00	-20.65	8.02	3	V	309	2.29	-
PK	4.85576G	47.35	74.00	-26.65	8.10	3	V	309	2.29	-

802.11n HT40_Nss1,(MCS0)_4TX

2422MHz_TX

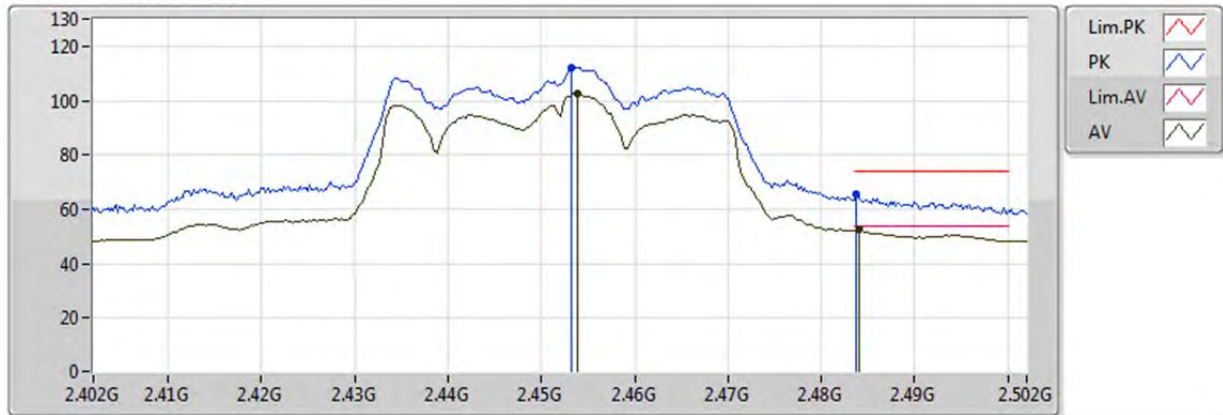


20170508
EUT Y 4TX
Setting 16
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82912G	33.43	54.00	-20.57	8.03	3	H	30	2.04	-
PK	4.83664G	46.94	74.00	-27.06	8.05	3	H	30	2.04	-

802.11n HT40_Nss1,(MCS0)_4TX

2452MHz_TX

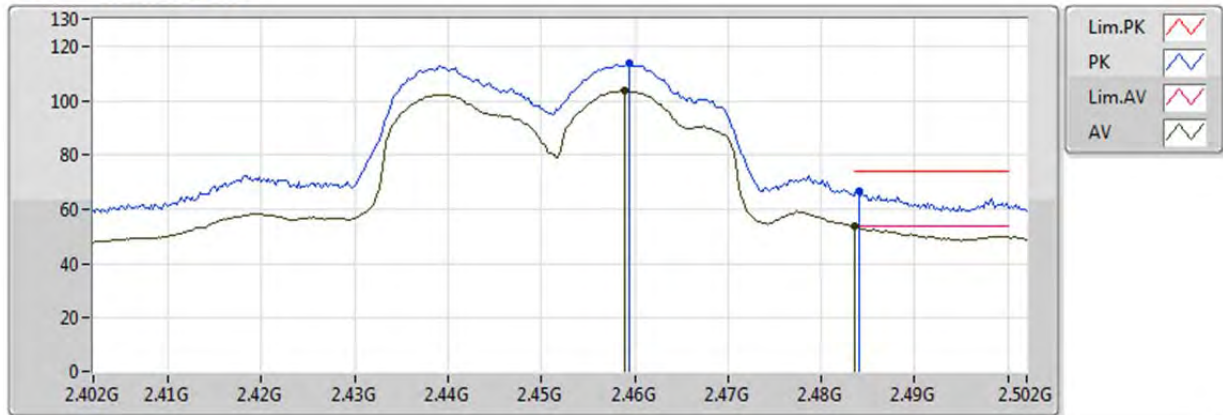


20170508
EUT Y 4TX
Setting 17.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4538G	102.46	Inf	-Inf	32.05	3	V	46	1.50	-
AV	2.484G	52.46	54.00	-1.54	32.13	3	V	46	1.50	-
PK	2.4532G	112.09	Inf	-Inf	32.04	3	V	46	1.50	-
PK	2.4838G	65.35	74.00	-8.65	32.13	3	V	46	1.50	-

802.11n HT40_Nss1,(MCS0)_4TX

2452MHz_TX

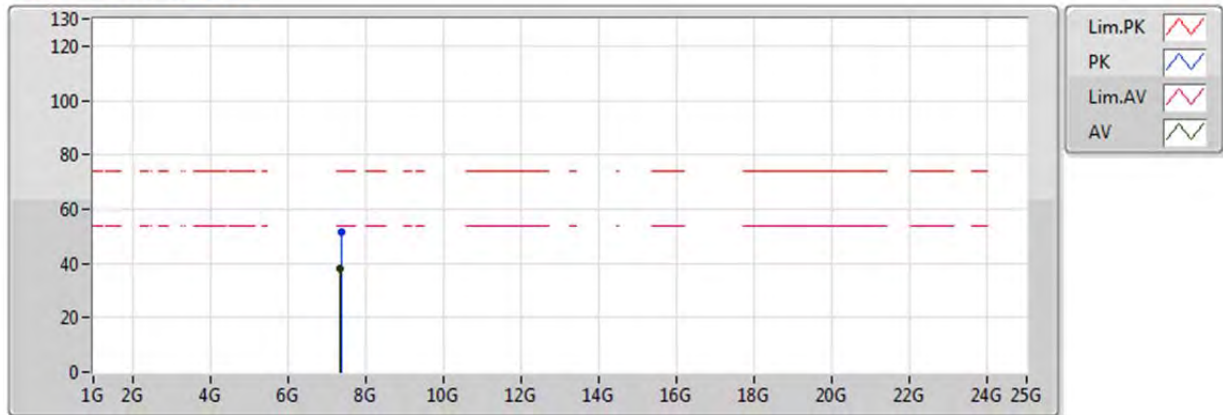


20170508
EUT Y 4TX
Setting 17.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.459G	103.59	Inf	-Inf	32.06	3	H	126	2.13	-
AV	2.483502G	53.83	54.00	-0.17	32.13	3	H	126	2.13	-
PK	2.4594G	113.95	Inf	-Inf	32.06	3	H	126	2.13	-
PK	2.484G	66.59	74.00	-7.41	32.13	3	H	126	2.13	-

802.11n HT40_Nss1,(MCS0)_4TX

2452MHz_TX

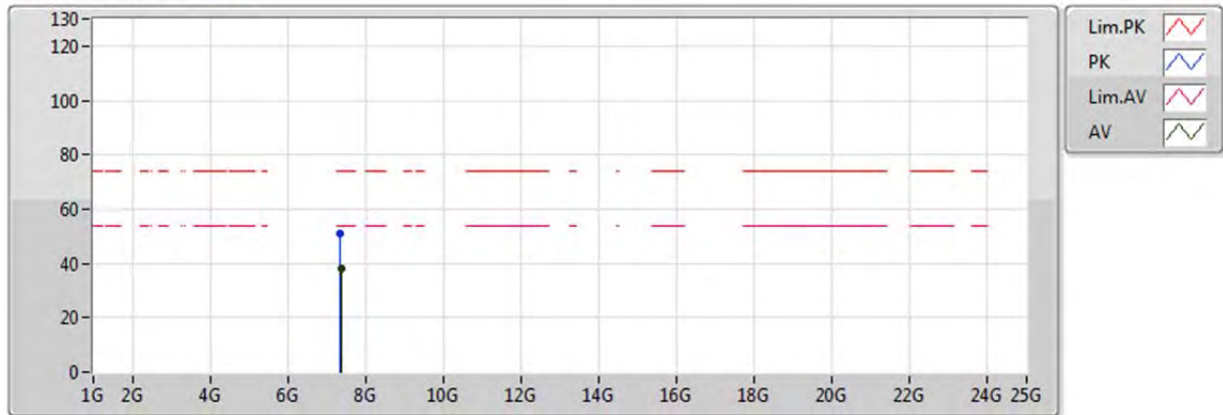


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EUT Y 4TX
Setting 17.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	7.35216G	37.96	54.00	-16.04	12.05	3	V	204	2.37	-
PK	7.3672G	51.51	74.00	-22.49	12.08	3	V	204	2.37	-

802.11n HT40_Nss1,(MCS0)_4TX

2452MHz_TX



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EUT Y 4TX
Setting 17.5
02-Z-1
FSU(100015)
Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	7.36672G	38.06	54.00	-15.94	12.08	3	H	12	1.74	-
PK	7.35264G	50.94	74.00	-23.06	12.05	3	H	12	1.74	-