



FCC Test Report

Equipment : Wireless Access Point Radio module
Brand Name : XIRRUS
Model No. : XDR240
FCC ID : SK6-XDR240
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Function : ☒ Point-to-multipoint; ☐ Point-to-point
Applicant : Xirrus, Inc.
2101 Corporate Center Drive, Thousand Oaks, CA
91320 USA
Manufacturer : Lite-On Network Communication (Dongguan) Limited
30#Keji Rd., Yin Hu Industrial Area, Qingxi Town,
DongGuan City, Guangdong, China

The product sample received on Jul. 22, 2016 and completely tested on Sep. 13, 2016. 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	15.207	AC Power-line Conducted Emissions	FCC 15.207	Complied
3.2	15.247(a)	DTS Bandwidth	≥500kHz	Complied
3.3	15.247(b)	Fundamental Emission Output Power	Power [dBm]:30	Complied
3.4	15.247(e)	Power Spectral Density	PSD [dBm/3kHz]:8	Complied
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	Non-Restricted Bands: > 30 dBc	Complied
3.6	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied

Note 1: The EUT is a limited module which only limited to the Wireless Access Point (brand: XIRRUS / model: XA4240).

The EUT was installed to the Wireless Access Point (brand: XIRRUS / model: XA4240) to perform all the tests.

Note 2: These four radios will be operated in different bands. If they are used in the same band, the output power of each radio will be reduced to make sure that total power is equal to max output power of single radio module.

Revision History

[illegible]

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

Band	Mode	BWch (MHz)	Nant
2.4G	11b	20	4
2.4G	11g	20	4
2.4G	HT20	20	4
2.4G	VHT20	20	4
2.4G	VHT20,BF	20	4
2.4G	HT40	40	4
2.4G	VHT40	40	4
2.4G	VHT40,BF	40	4

Note:

- 2.4G is the 2.4GHz Band (2.4-2.4835GHz).
- 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.
- 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	Model Name	Antenna Type	Connector	Gain (dBi)	
					2.4GHz	5GHz
1	EMBEDDED WORKS	EW2458-02	Dipole Antenna	Reversed-SMA	2	3
Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)	
					2.4GHz	5GHz
2	Laird	PDQ24499	Directional Antenna	Reversed-SMA	8.6	9.4

Note: The EUT has two type antennas.

The system will install four modules (Radio 1(FCC ID: SK6-XDR240), Radio 2~ Radio 4(FCC ID: SK6-XDR241)).

The radio 2~4 single radio is same with each other.

Each Radio could connect to 4 chains.

For IEEE 802.11a/n/ac mode (4TX/4RX):

Chain 1, Chain 2, Chain 3 and Chain 4 can be used as transmitting/receiving antenna.

Chain 1, Chain 2, Chain 3 and Chain 4 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	T(s)	VBW(Hz) $\geq 1/T$
11b	0.999	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
11g	0.991	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
VHT20	0.99	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
VHT20,BF	0.989	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
VHT40	0.99	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
VHT40,BF	0.979	945u	3k

1.1.4 EUT Operational Condition

EUT Power Type	From Host system		
Beamforming Function	☒ With beamforming	☐ Without beamforming	

Note: The product has beamforming function for 802.11n in 5GHz band / 802.11ac in 2.4GHz band and 5GHz band.

1.1.5 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR5D1826AA

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

Modifications	Performance Checking
Adding two antennas (Refer to chapter 1.1.2 Antenna Information)	All Test Items

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 v03r05
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 644545 D01 v01r02

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	Satoshi Yang	25°C / 61%	Aug. 21, 2016 Sep. 13, 2016
Radiated	03CH01-CB	Gino Huang/ Nyle Chang/ Eason Chen/ Steven Liang/ Peter Wu	26°C / 59%	Jul. 22, 2016 Sep. 09, 2016
AC Conduction	CO01-CB	Deven Huang	24°C / 62%	Sep. 09, 2016

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
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%

2 Test Configuration of EUT

2.1 Test Channel Mode

For Dipole Antenna

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
2.4G	11b	20	1	4	2412	L	74
2.4G	11b	20	1	4	2437	M	81
2.4G	11b	20	1	4	2462	H	73
2.4G	11g	20	1	4	2412	L	60
2.4G	11g	20	1	4	2437	M	78
2.4G	11g	20	1	4	2462	H	65
2.4G	VHT20	20	1,(M0)	4	2412	L	64
2.4G	VHT20	20	1,(M0)	4	2437	M	80
2.4G	VHT20	20	1,(M0)	4	2462	H	65
2.4G	VHT40	40	1,(M0)	4	2422	L	54
2.4G	VHT40	40	1,(M0)	4	2437	M	59
2.4G	VHT40	40	1,(M0)	4	2452	H	55
2.4G	VHT20,BF	20	1,(M0)	4	2412	L	57
2.4G	VHT20,BF	20	1,(M0)	4	2437	M	80
2.4G	VHT20,BF	20	1,(M0)	4	2462	H	60
2.4G	VHT40,BF	40	1,(M0)	4	2422	L	49
2.4G	VHT40,BF	40	1,(M0)	4	2437	M	58
2.4G	VHT40,BF	40	1,(M0)	4	2452	H	52

**For Directional Antenna**

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
2.4G	11b	20	1	4	2412	L	69
2.4G	11b	20	1	4	2437	M	81
2.4G	11b	20	1	4	2462	H	70
2.4G	11g	20	1	4	2412	L	53
2.4G	11g	20	1	4	2437	M	79
2.4G	11g	20	1	4	2462	H	56
2.4G	VHT20	20	1,(M0)	4	2412	L	56
2.4G	VHT20	20	1,(M0)	4	2437	M	80
2.4G	VHT20	20	1,(M0)	4	2462	H	57
2.4G	VHT40	40	1,(M0)	4	2422	L	46
2.4G	VHT40	40	1,(M0)	4	2437	M	54
2.4G	VHT40	40	1,(M0)	4	2452	H	50
2.4G	VHT20,BF	20	1,(M0)	4	2412	L	55
2.4G	VHT20,BF	20	1,(M0)	4	2437	M	60
2.4G	VHT20,BF	20	1,(M0)	4	2462	H	54
2.4G	VHT40,BF	40	1,(M0)	4	2422	L	43
2.4G	VHT40,BF	40	1,(M0)	4	2437	M	51
2.4G	VHT40,BF	40	1,(M0)	4	2452	H	48

Note: 1.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. There are two modes of EUT, one is beamforming mode, and the other is non-beamforming mode for 802.11ac. All test results were recorded in the report.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	EUT + Ant.1
2	EUT + Ant.2
For operating mode 2 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Non-restricted Frequency Bands 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
1	EUT X axis + Ant.1
2	EUT Y axis + Ant.1
3	EUT Z axis + Ant.1
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT Z axis + Ant.2
Mode 4 is the worst case, so it was selected to record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.	
1	EUT Y axis + Ant.1
2	EUT Y axis + Ant.2



2.3 EUT Operation during Test

For non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

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 Xircon V1.0.2.25.
3. Executed "Lantest.exe " to link with the remote workstation to receive and transmit packet by RX Device and transmit duty cycle no less 98%.

2.4 Accessories

N/A

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	DoC
2	PoE	Microsemi	PD-9501-10G/AC	DoC
3	Host system	XIRRUS	XA4240	DoC

For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E4300	DoC
2	Host system	XIRRUS	XA4240	DoC
3	PoE	Motorola	PD-7001G	N/A

For Test Site No: 03CH01-CB (above 1GHz)

<For Non-Beamforming Mode>

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E4300	DoC
2	Host system	XIRRUS	XA4240	DoC
3	PoE	Motorola	PD-7001G	N/A

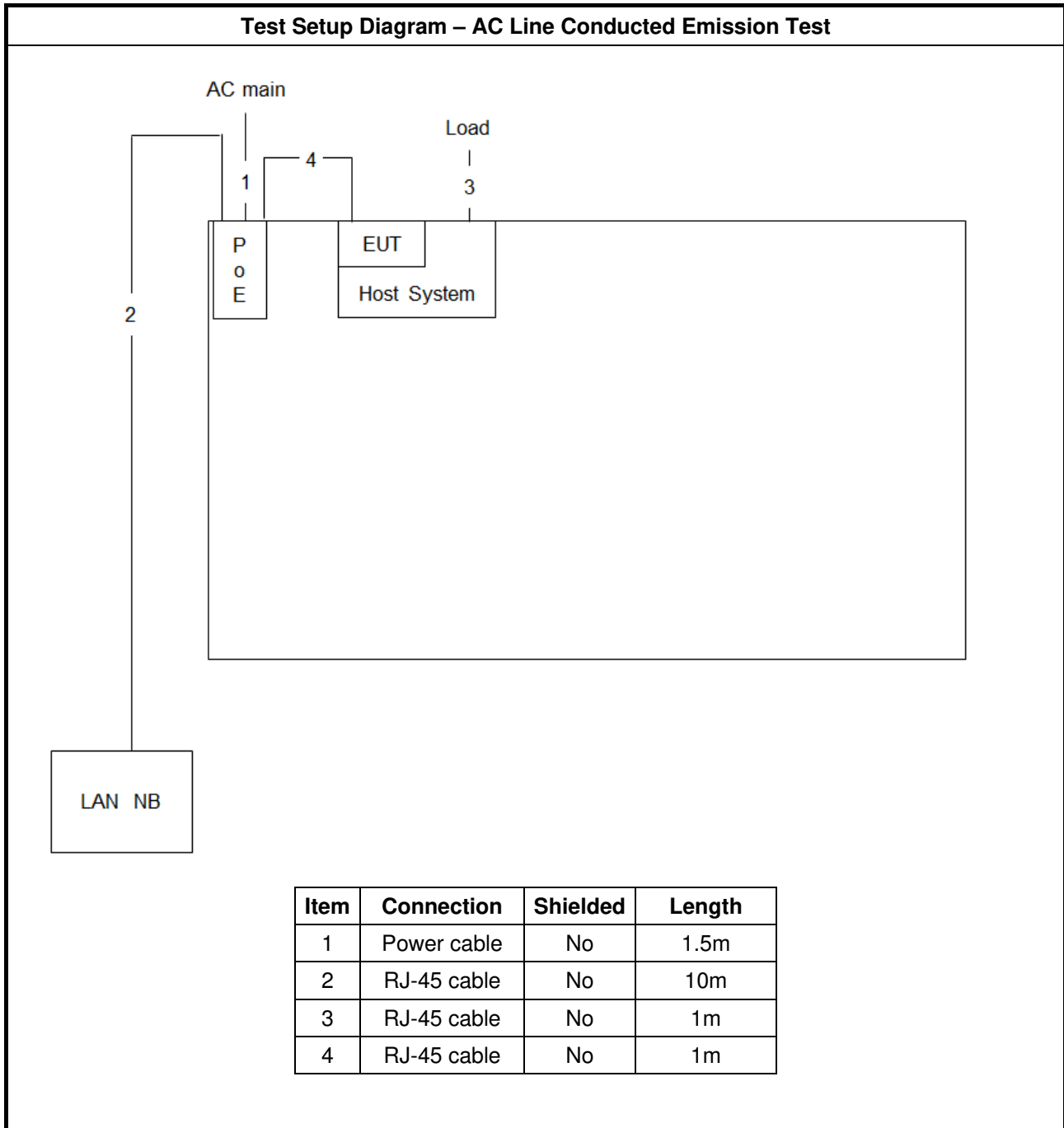
<For Beamforming Mode>

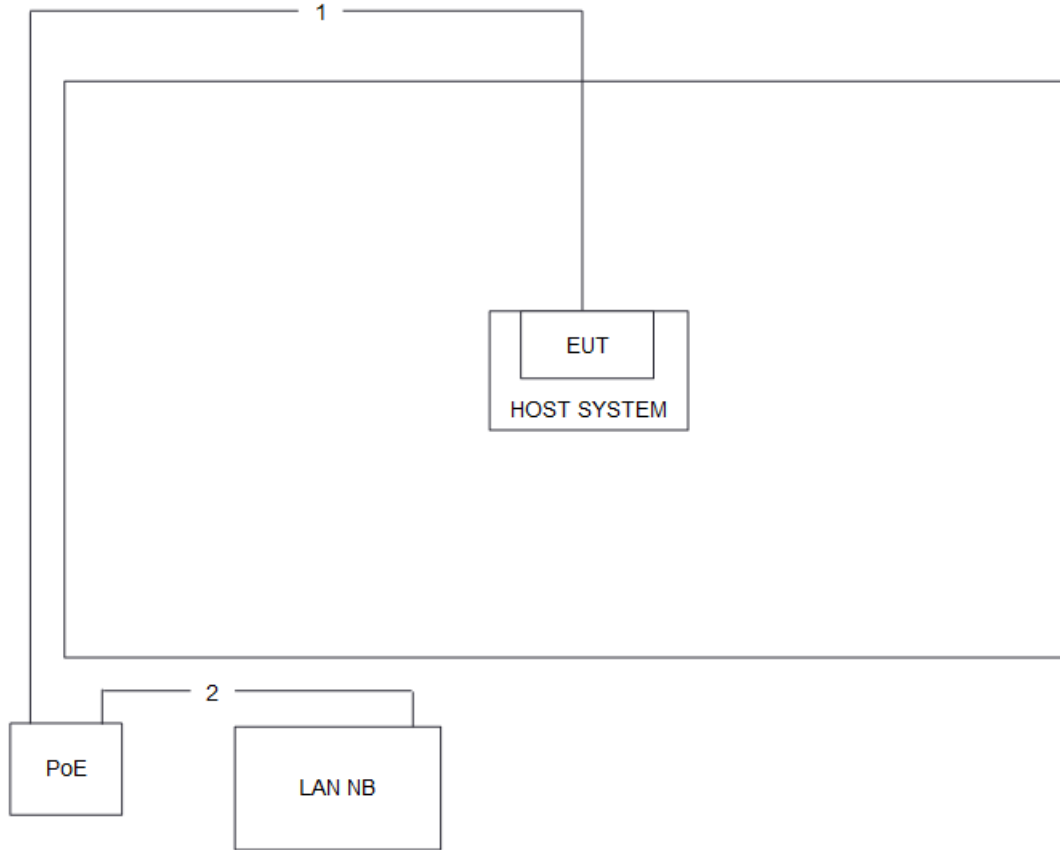
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E4300	DoC
2	Notebook	DELL	E4300	DoC
3	WLAN module	Broadcom	Bcm4366	N/A
4	PoE	Motorola	PD-7001G	N/A
5	Host system	XIRRUS	XA4240	DoC

For Test Site No: TH01-CB

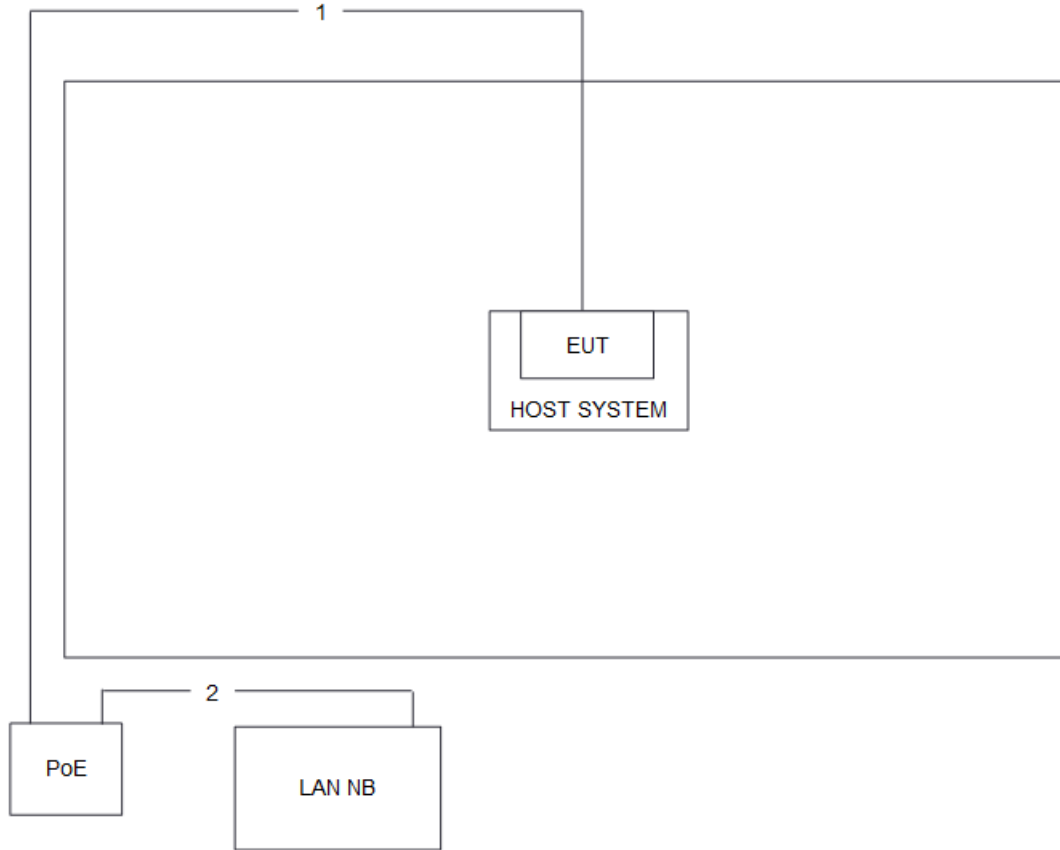
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E4300	DoC
2	Host system	XIRRUS	XA4240	DoC
3	PoE	Motorola	PD-7001G	N/A

2.6 Test Setup Diagram

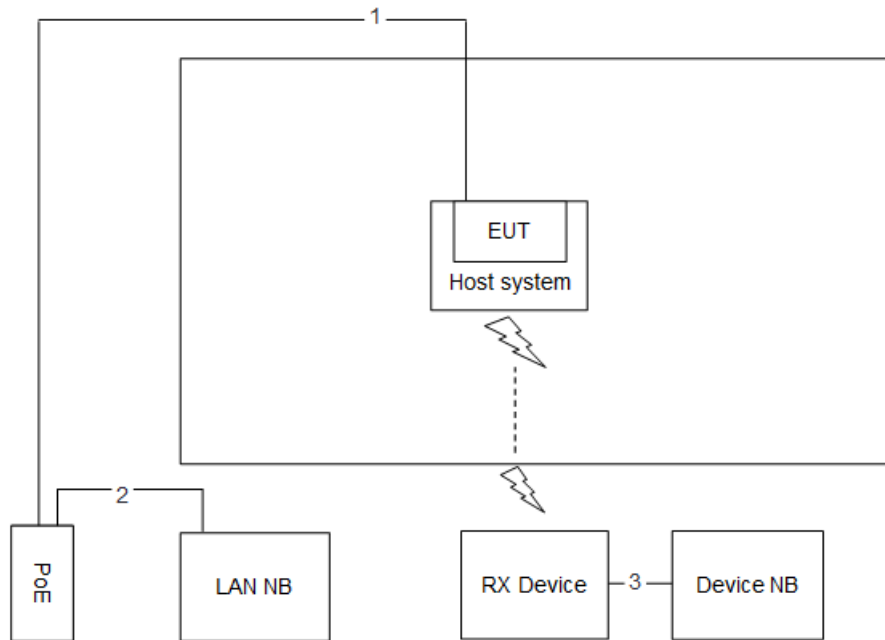


Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz / <For Non-Beamforming Mode>


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz / <For Beamforming Mode>


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	1.5m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

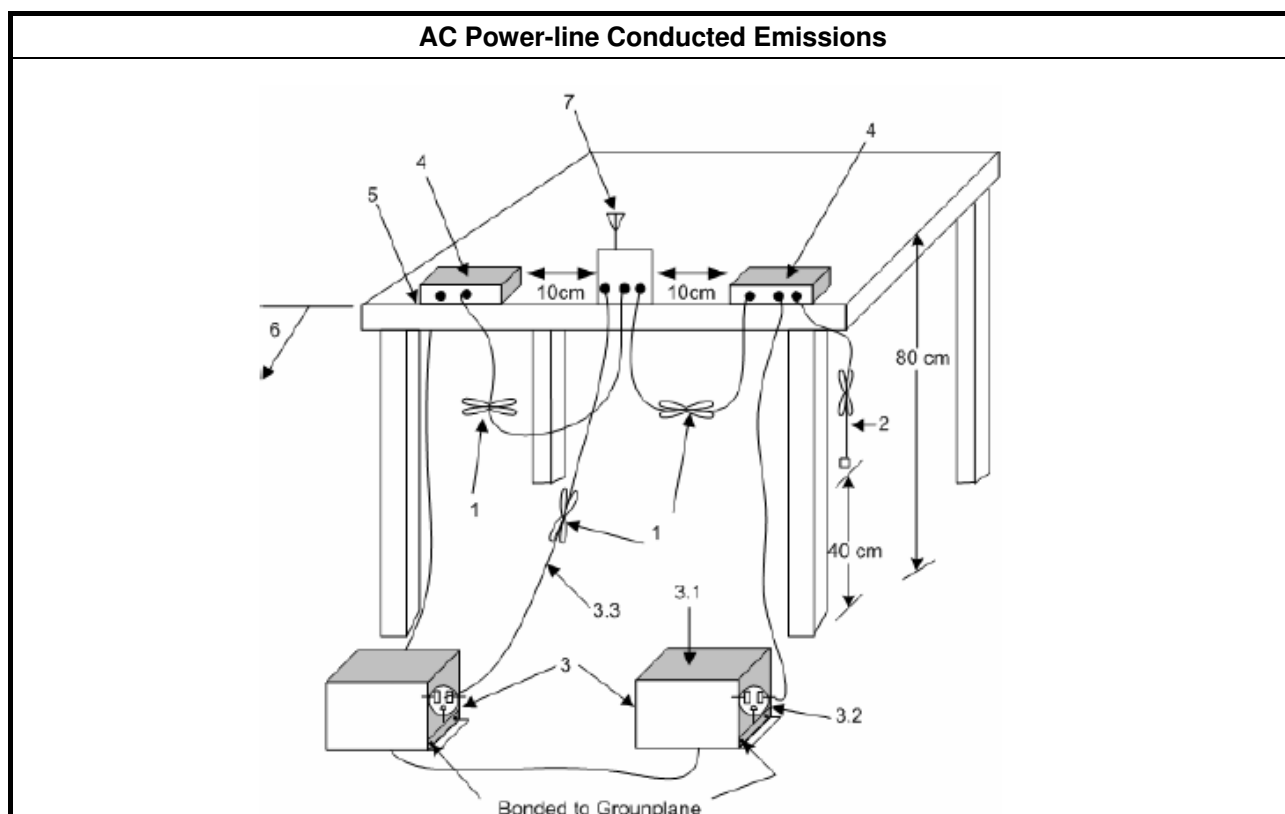
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup





3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

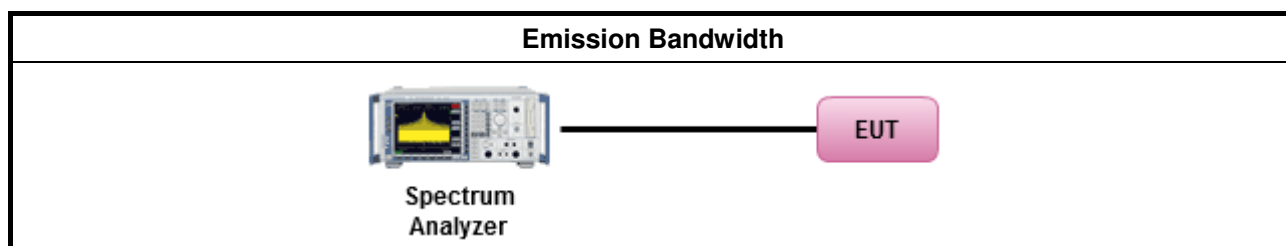
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as FCC KDB 558074, clause 8.1 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.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Fundamental Emission Output Power

3.3.1 Fundamental Emission Output Power Limit

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

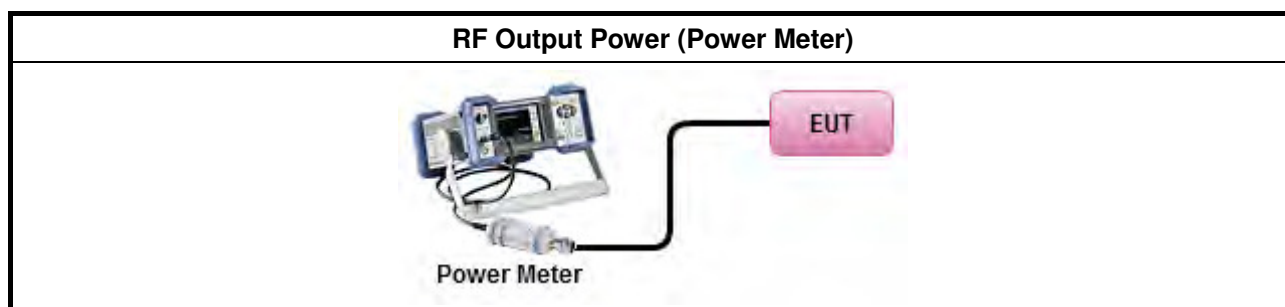
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 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).
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]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

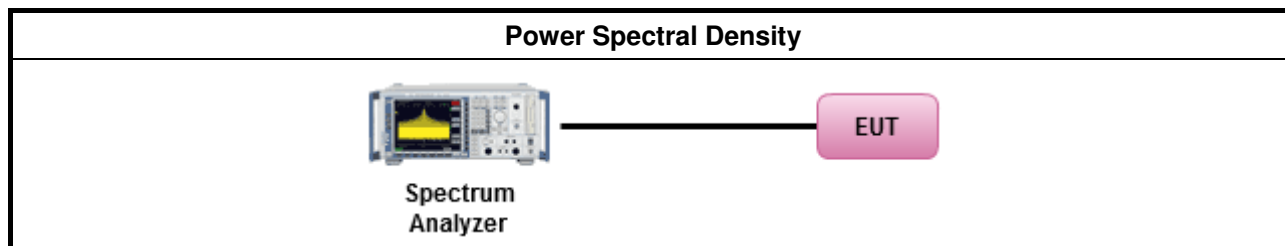
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as FCC KDB 558074, clause 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.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

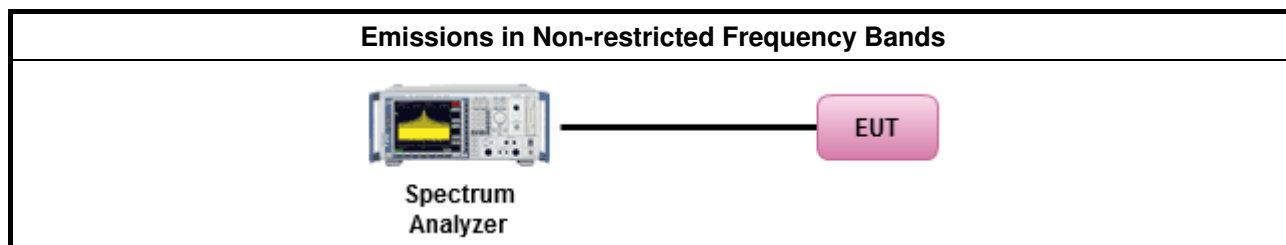
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

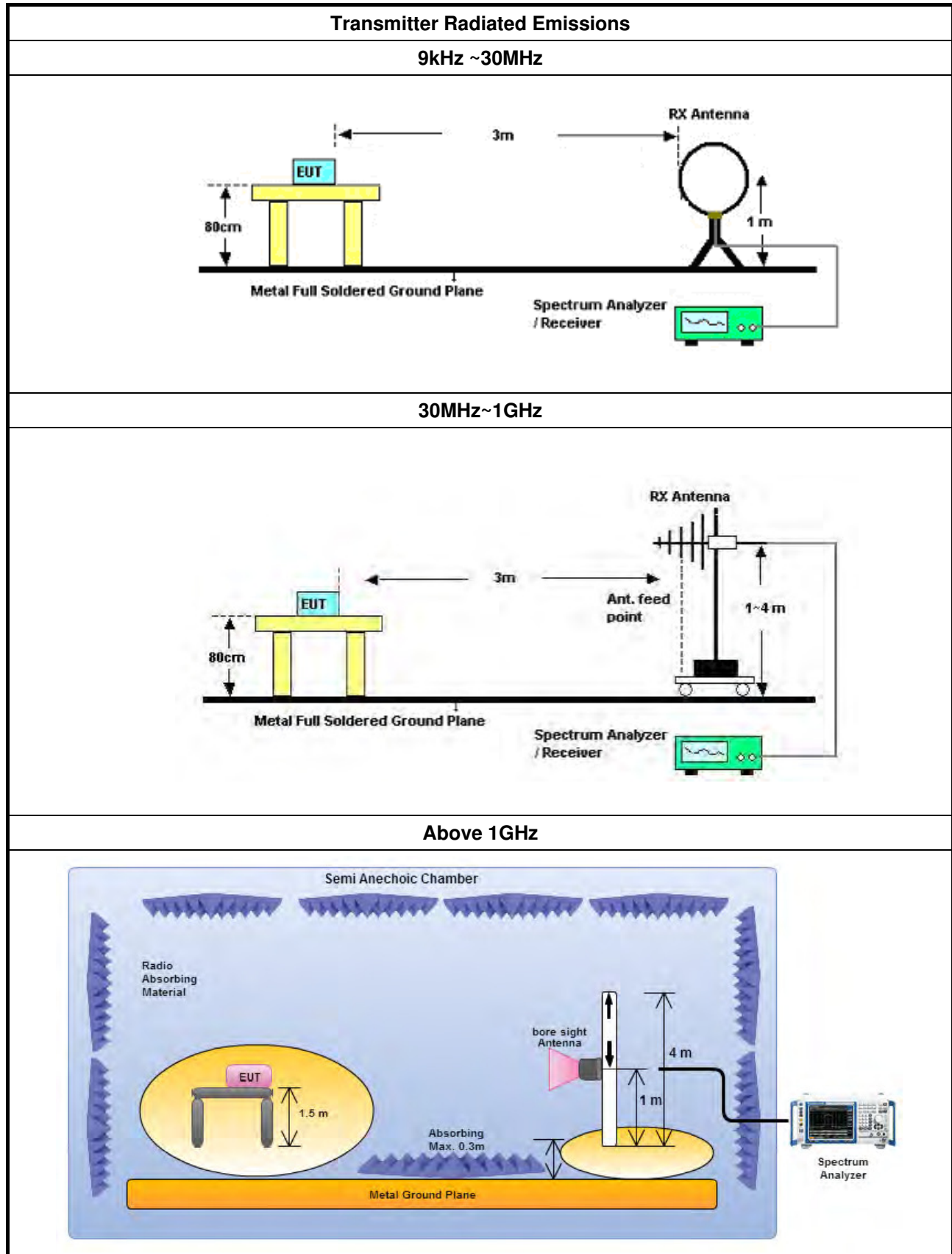
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.9.2.2 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.

3.6.4 Test Setup





3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.6.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 27, 2016	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 08, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 23, 2015	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 24, 2016	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
Bilog Antenna	SCHAFFNER	CBL 6112B	2888	30MHz ~ 1GHz	Nov. 17, 2015	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170586	18GHz ~ 40GHz	Sep. 22, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Mar. 15, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 18, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	Radiation (03CH01-CB)



FCC Test Report

Report No. : FR681228-02AA

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	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	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 02, 2015	Conducted (TH01-CB)

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

“*” Calibration Interval of instruments listed above is two years.

N.C.R means Non-Calibration required.



AC Power-line Conducted Emissions Result									
Operating Mode	2				Power Phase		Neutral		
Operating Function	CTX								
Level (dBuV) Date: 2016-09-09 Time: 18:33:26 Frequency (MHz)									
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1884	38.61	-15.50	54.11	28.51	9.92	0.18	NEUTRAL	Average
2	0.1884	46.36	-17.75	64.11	36.26	9.92	0.18	NEUTRAL	QP
3	1.0265	30.80	-15.20	46.00	20.14	9.94	0.72	NEUTRAL	Average
4	1.0265	39.17	-16.83	56.00	28.51	9.94	0.72	NEUTRAL	QP
5	1.0997	26.88	-19.12	46.00	16.29	9.94	0.65	NEUTRAL	Average
6	1.0997	34.00	-22.00	56.00	23.41	9.94	0.65	NEUTRAL	QP
7	1.2098	35.96	-10.04	46.00	25.46	9.94	0.56	NEUTRAL	Average
8	1.2098	41.95	-14.05	56.00	31.45	9.94	0.56	NEUTRAL	QP
9	1.5684	25.50	-20.50	46.00	15.25	9.95	0.30	NEUTRAL	Average
10	1.5684	39.69	-16.31	56.00	29.44	9.95	0.30	NEUTRAL	QP
11	15.8854	30.33	-19.67	50.00	19.87	10.24	0.22	NEUTRAL	Average
12	15.8854	42.05	-17.95	60.00	31.59	10.24	0.22	NEUTRAL	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result									
Operating Mode	2				Power Phase			Line	
Operating Function	CTX								
Level (dBuV) Date: 2016-09-09 Time: 18:34:44 Frequency (MHz)									
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1864	39.73	-14.47	54.20	29.63	9.92	0.18	LINE	Average
2	0.1864	46.84	-17.36	64.20	36.74	9.92	0.18	LINE	QP
3	1.0881	26.24	-19.76	46.00	15.64	9.94	0.66	LINE	Average
4	1.0881	33.29	-22.71	56.00	22.69	9.94	0.66	LINE	QP
5	1.1173	34.30	-11.70	46.00	23.72	9.94	0.64	LINE	Average
6	1.1173	42.64	-13.36	56.00	32.06	9.94	0.64	LINE	QP
7	1.2098	33.48	-12.52	46.00	22.98	9.94	0.56	LINE	Average
8	1.2098	41.87	-14.13	56.00	31.37	9.94	0.56	LINE	QP
9	15.7179	31.40	-18.60	50.00	20.94	10.24	0.22	LINE	Average
10	15.7179	42.55	-17.45	60.00	32.09	10.24	0.22	LINE	QP
11	20.8137	24.31	-25.69	50.00	13.73	10.33	0.25	LINE	Average
12	20.8137	30.91	-29.09	60.00	20.33	10.33	0.25	LINE	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)



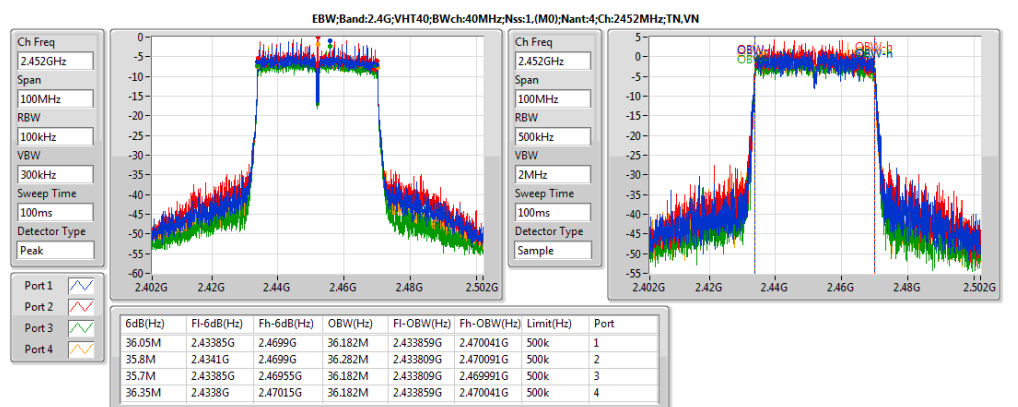
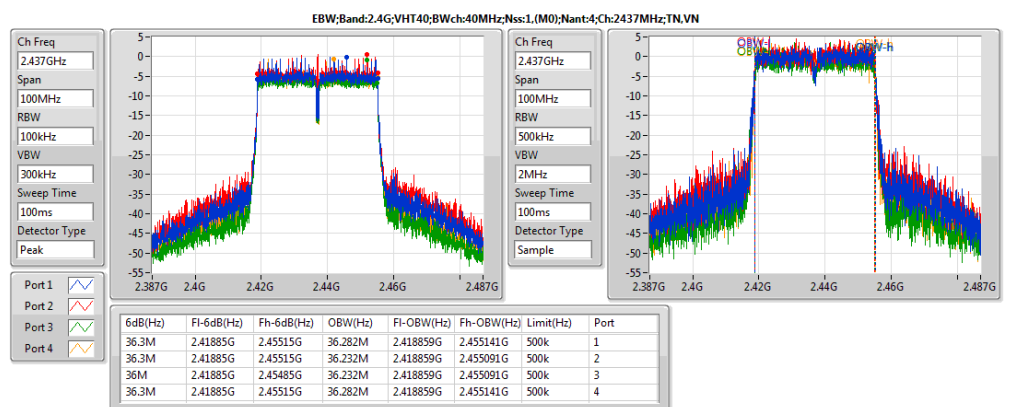
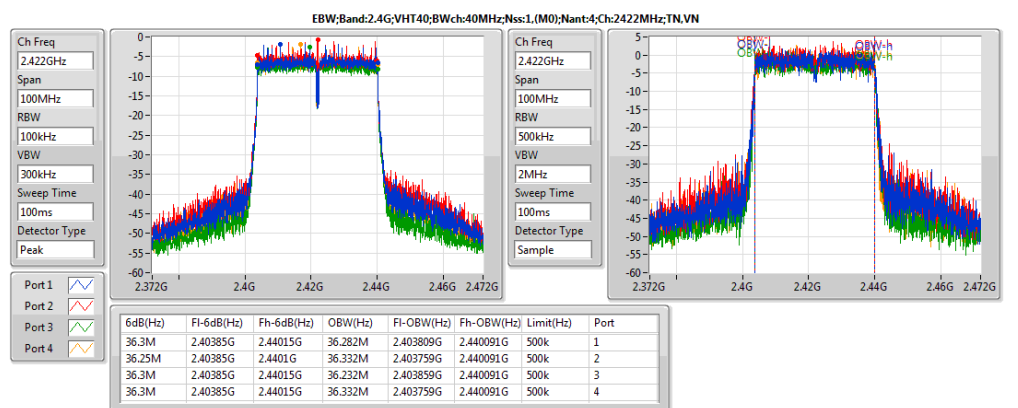
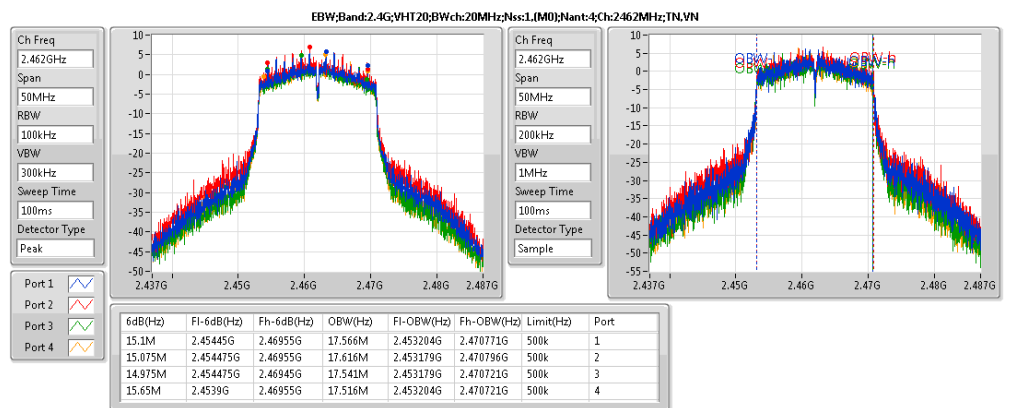
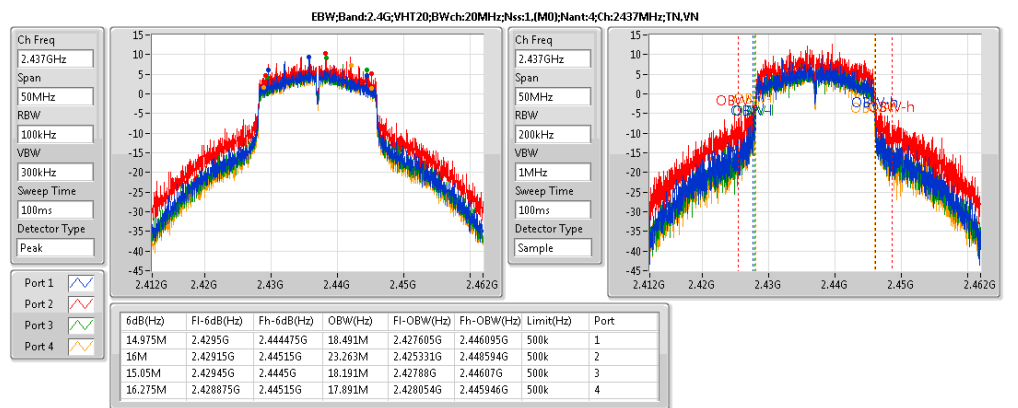
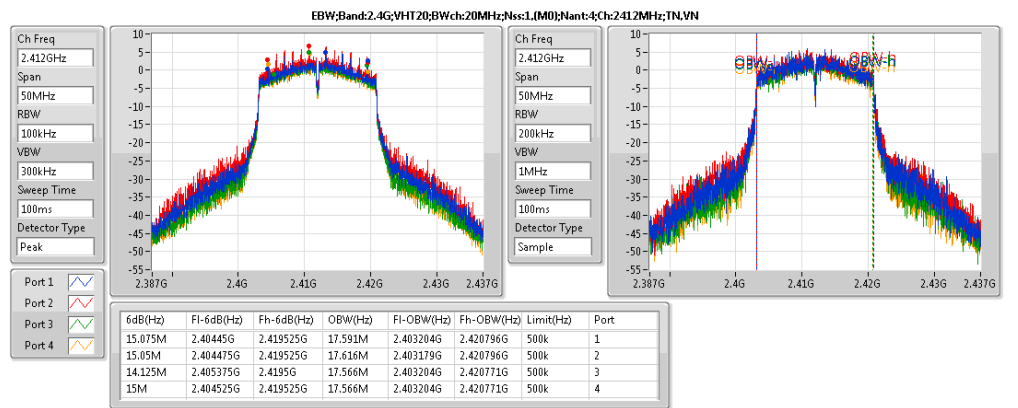
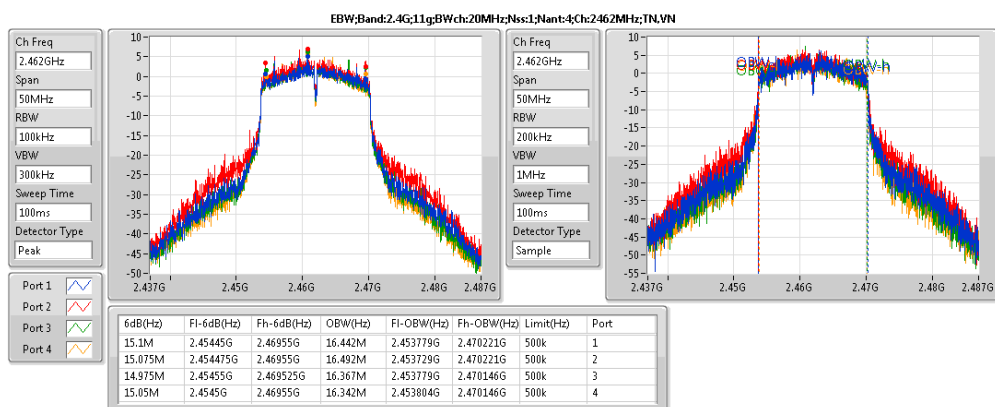
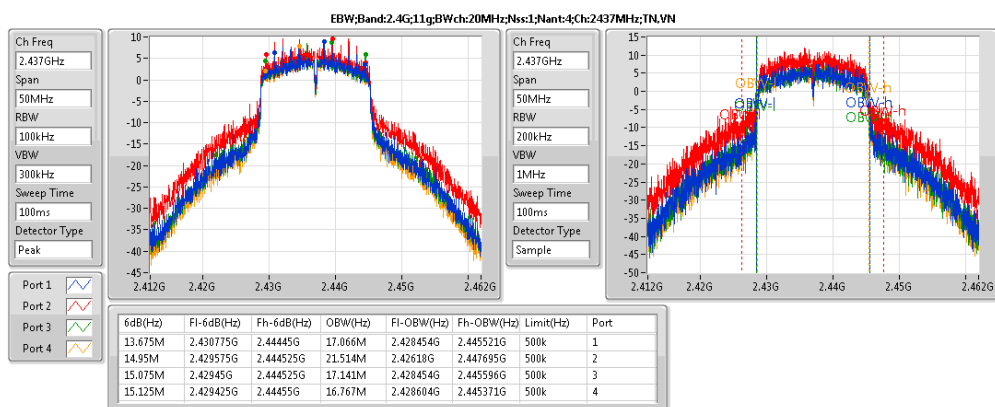
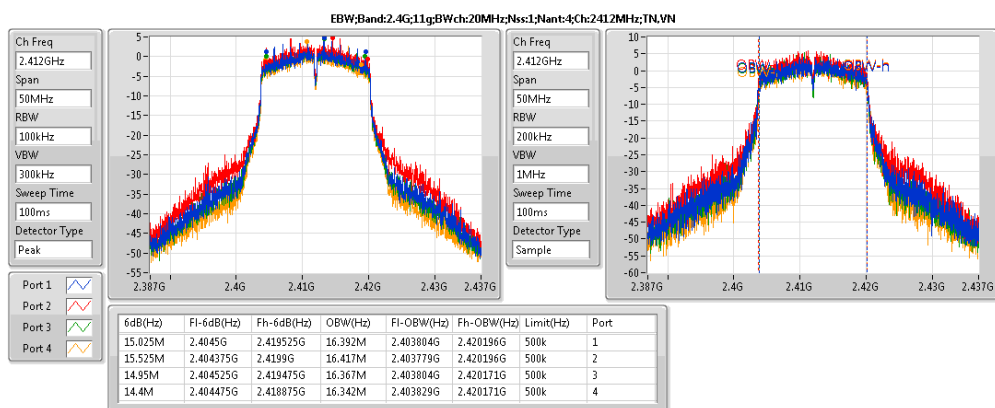
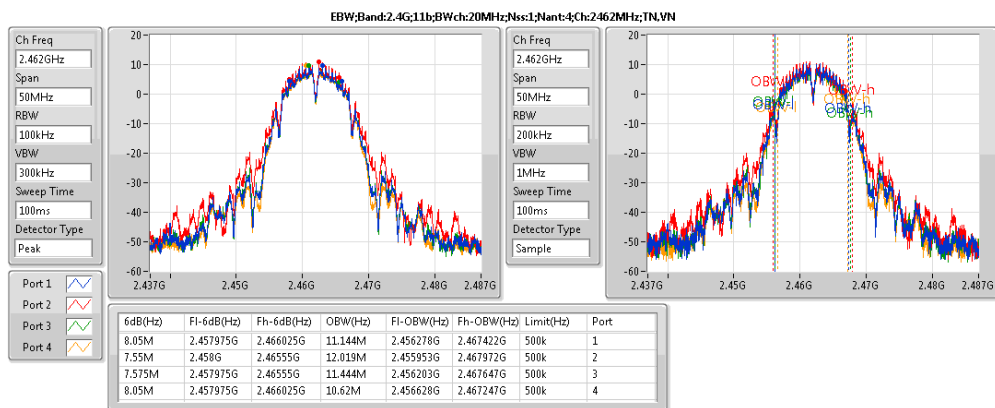
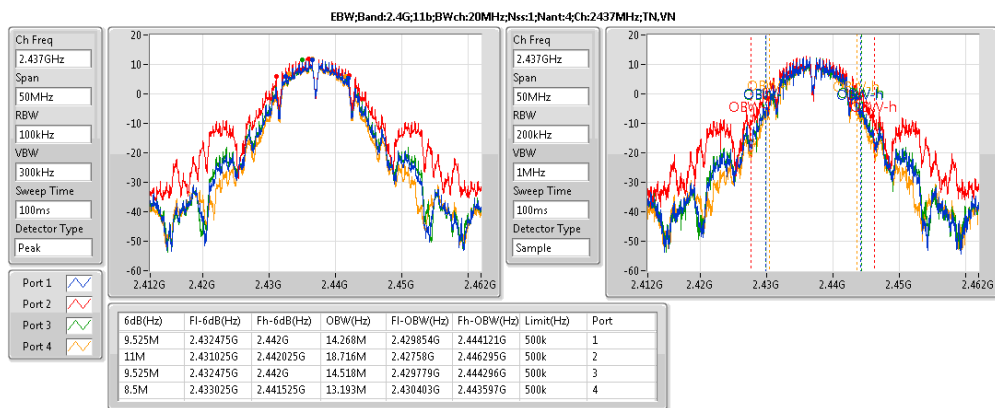
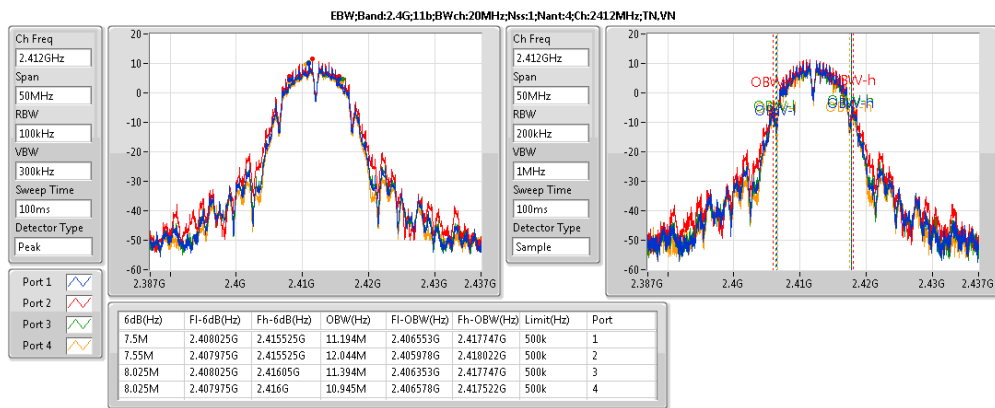
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4G;11b;Nss1;Ntx4	11M	18.716M	18M7G1D	7.5M	10.62M
2.4G;11g;Nss1;Ntx4	15.525M	21.514M	21M5D1D	13.675M	16.342M
2.4G;VHT20;Nss1,(M0);Ntx4	16.275M	23.263M	23M3D1D	14.125M	17.516M
2.4G;VHT40;Nss1,(M0);Ntx4	36.35M	36.332M	36M3D1D	35.7M	36.182M
2.4G;VHT20,BF;Nss1,(M0);Ntx4	15.7M	23.238M	23M2D1D	12.55M	17.516M
2.4G;VHT40,BF;Nss1,(M0);Ntx4	36.3M	36.332M	36M3D1D	35.65M	36.182M



Result

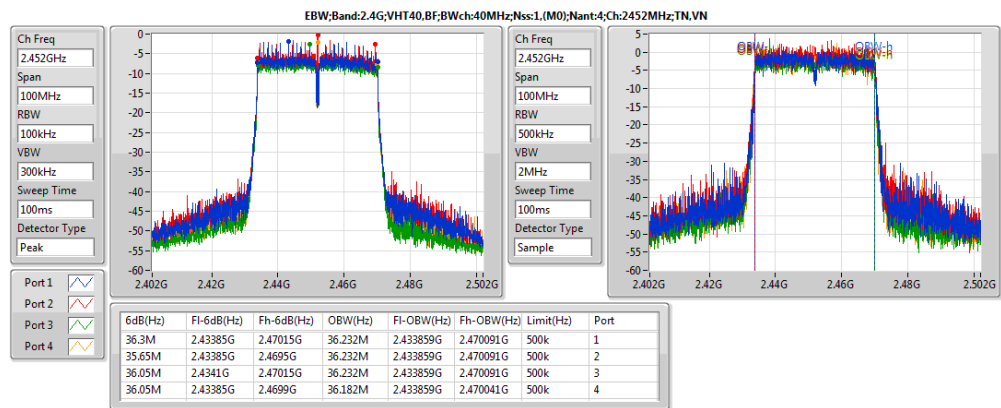
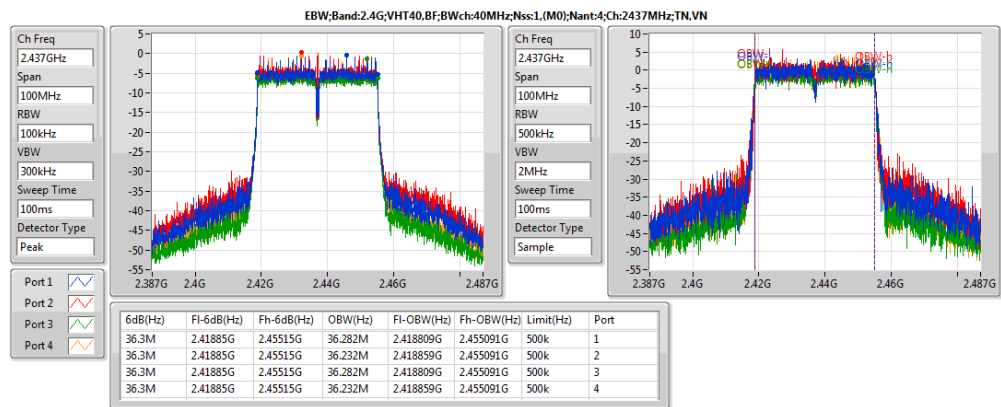
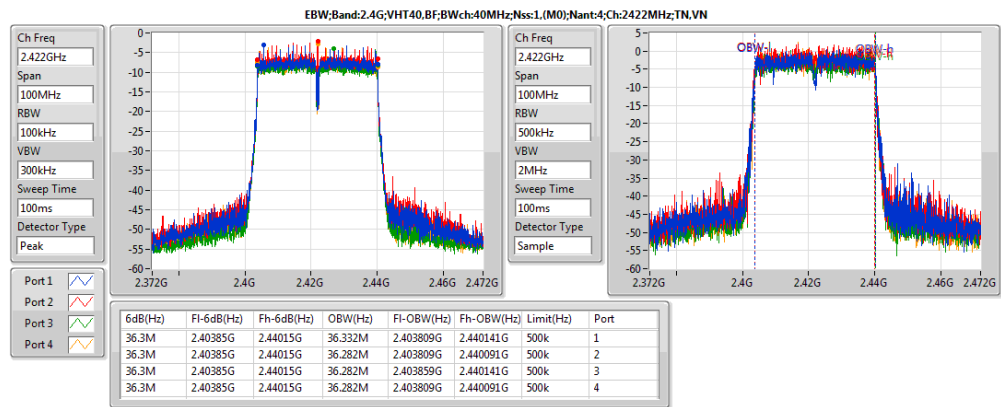
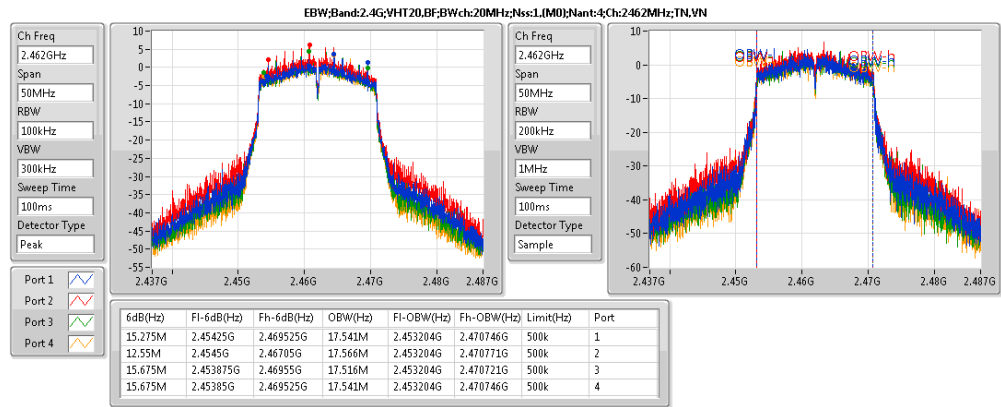
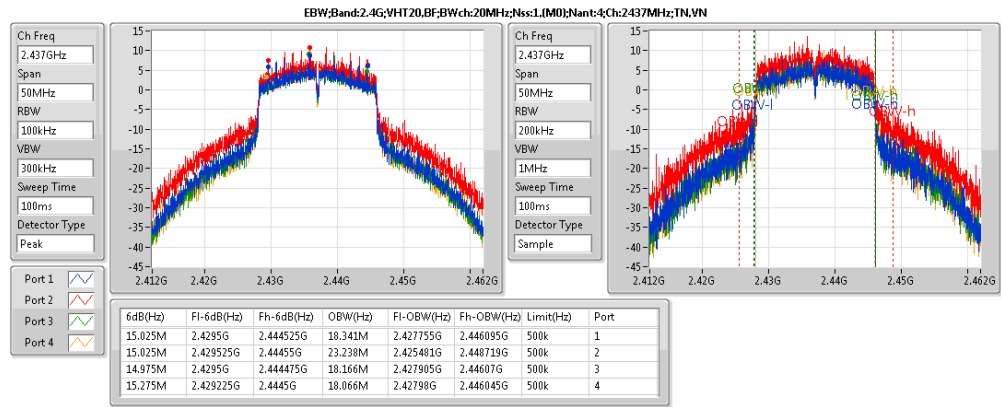
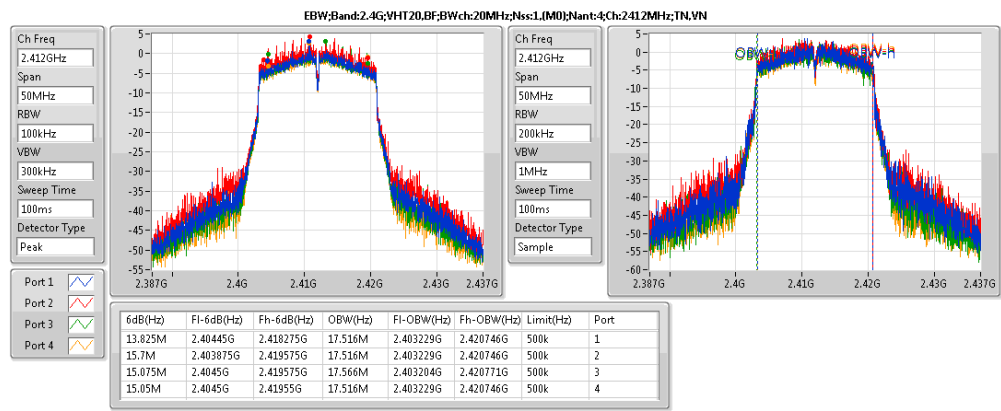
Mode	Result	Limit	P1-N dB (Hz)	P1-OBW (Hz)	P2-N dB (Hz)	P2-OBW (Hz)	P3-N dB (Hz)	P3-OBW (Hz)	P4-N dB (Hz)	P4-OBW (Hz)
2.4G;11b;Nss1;Ntx4;2412	Pass	500k	7.5M	11.194M	7.55M	12.044M	8.025M	11.394M	8.025M	10.945M
2.4G;11b;Nss1;Ntx4;2437	Pass	500k	9.525M	14.268M	11M	18.716M	9.525M	14.518M	8.5M	13.193M
2.4G;11b;Nss1;Ntx4;2462	Pass	500k	8.05M	11.144M	7.55M	12.019M	7.575M	11.444M	8.05M	10.62M
2.4G;11g;Nss1;Ntx4;2412	Pass	500k	15.025M	16.392M	15.525M	16.417M	14.95M	16.367M	14.4M	16.342M
2.4G;11g;Nss1;Ntx4;2437	Pass	500k	13.675M	17.066M	14.95M	21.514M	15.075M	17.141M	15.125M	16.767M
2.4G;11g;Nss1;Ntx4;2462	Pass	500k	15.1M	16.442M	15.075M	16.492M	14.975M	16.367M	15.05M	16.342M
2.4G;VHT20;Nss1,(M0);Ntx4;2412	Pass	500k	15.075M	17.591M	15.05M	17.616M	14.125M	17.566M	15M	17.566M
2.4G;VHT20;Nss1,(M0);Ntx4;2437	Pass	500k	14.975M	18.491M	16M	23.263M	15.05M	18.191M	16.275M	17.891M
2.4G;VHT20;Nss1,(M0);Ntx4;2462	Pass	500k	15.1M	17.566M	15.075M	17.616M	14.975M	17.541M	15.65M	17.516M
2.4G;VHT40;Nss1,(M0);Ntx4;2422	Pass	500k	36.3M	36.282M	36.25M	36.332M	36.3M	36.232M	36.3M	36.332M
2.4G;VHT40;Nss1,(M0);Ntx4;2437	Pass	500k	36.3M	36.282M	36.3M	36.232M	36M	36.232M	36.3M	36.282M
2.4G;VHT40;Nss1,(M0);Ntx4;2452	Pass	500k	36.05M	36.182M	35.8M	36.282M	35.7M	36.182M	36.35M	36.182M
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2412	Pass	500k	13.825M	17.516M	15.7M	17.516M	15.075M	17.566M	15.05M	17.516M
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2437	Pass	500k	15.025M	18.341M	15.025M	23.238M	14.975M	18.166M	15.275M	18.066M
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2462	Pass	500k	15.275M	17.541M	12.55M	17.566M	15.675M	17.516M	15.675M	17.541M
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2422	Pass	500k	36.3M	36.332M	36.3M	36.282M	36.3M	36.282M	36.3M	36.282M
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2437	Pass	500k	36.3M	36.282M	36.3M	36.232M	36.3M	36.282M	36.3M	36.232M
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2452	Pass	500k	36.3M	36.232M	35.65M	36.232M	36.05M	36.232M	36.05M	36.182M





Antenna 1 EBW Result

Appendix B





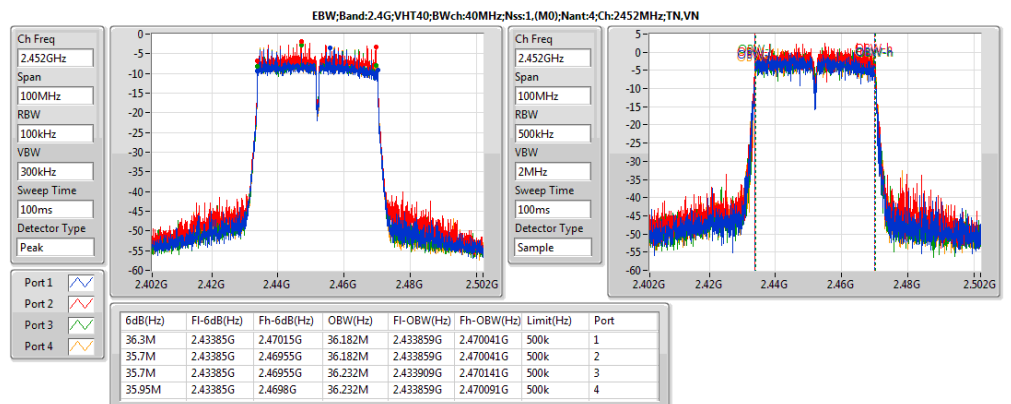
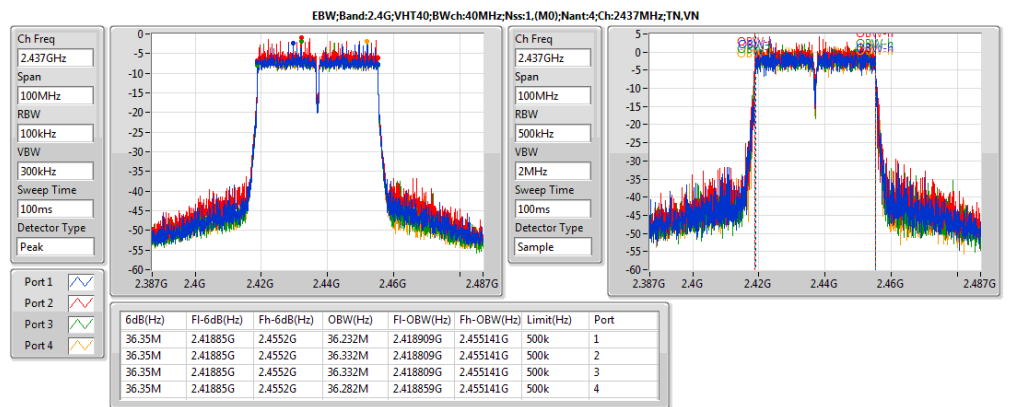
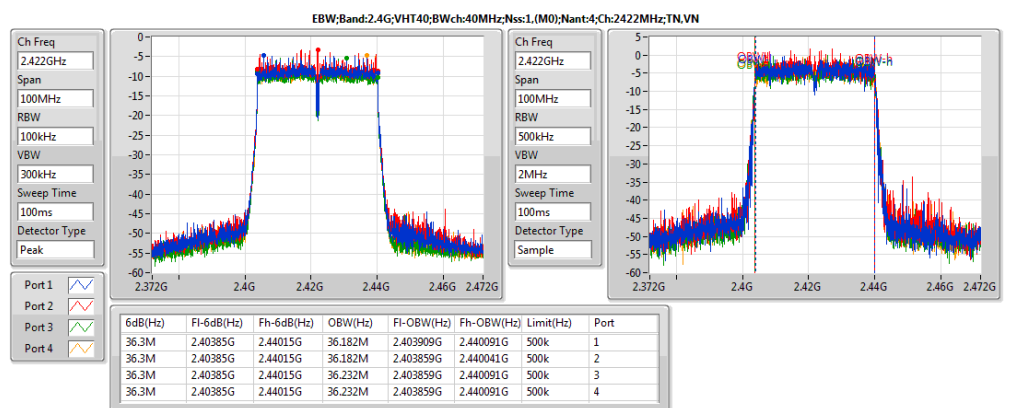
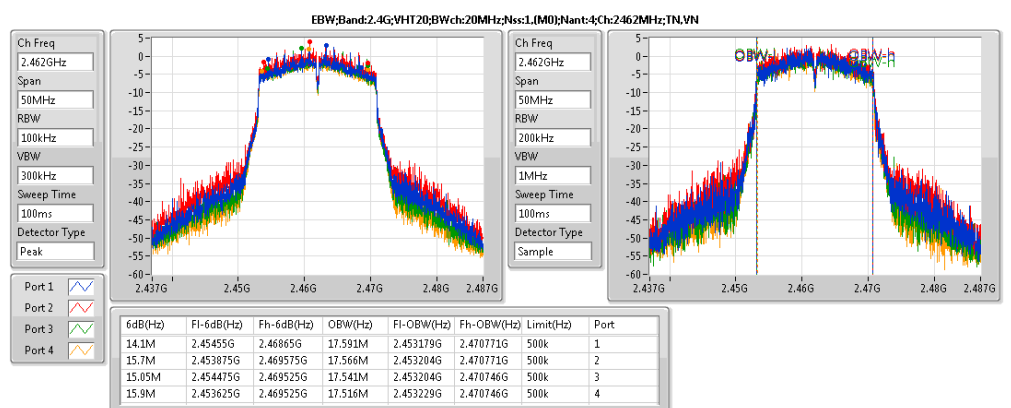
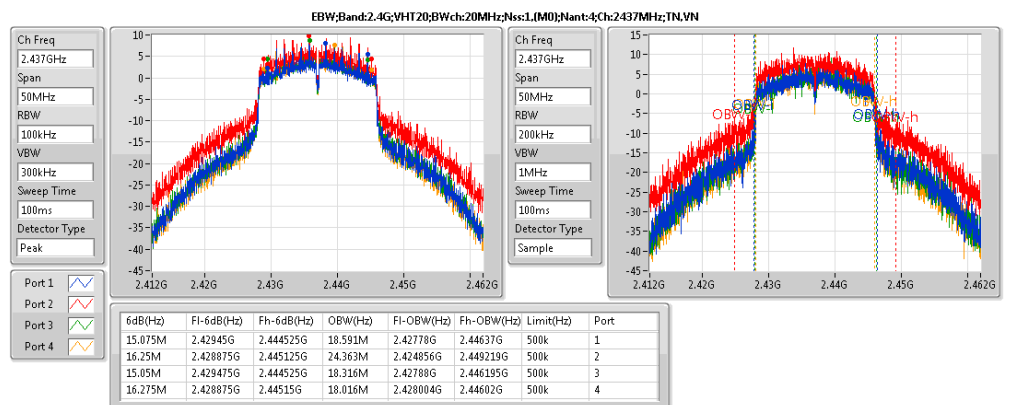
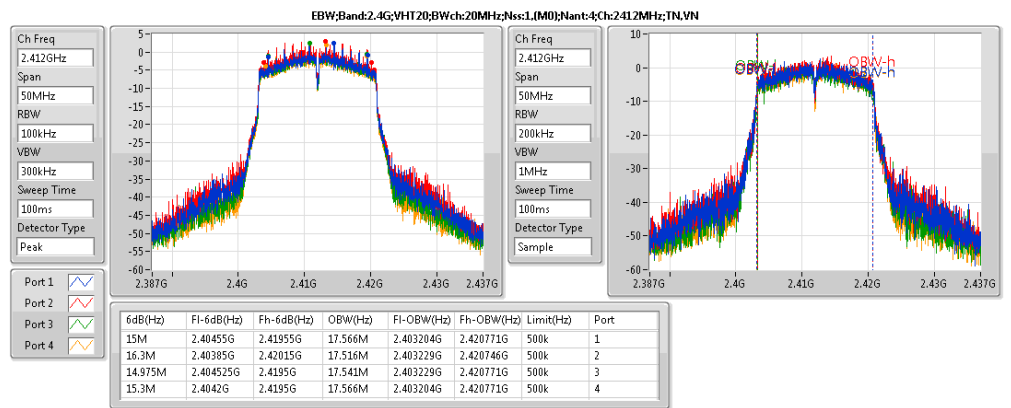
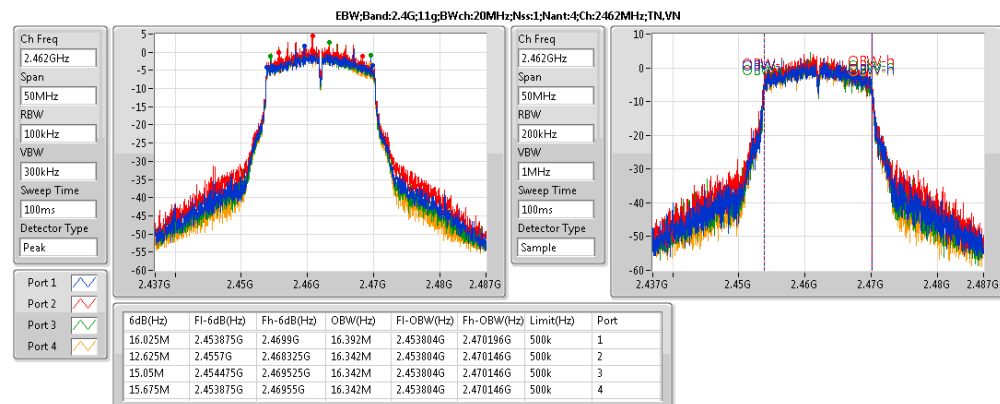
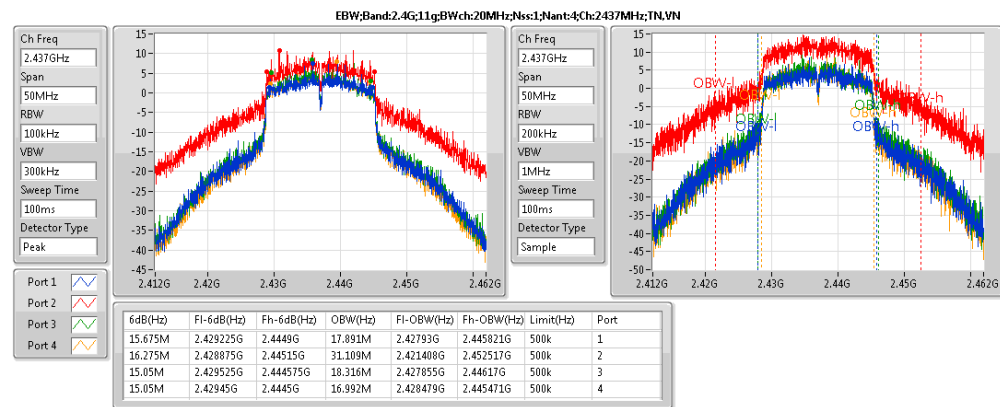
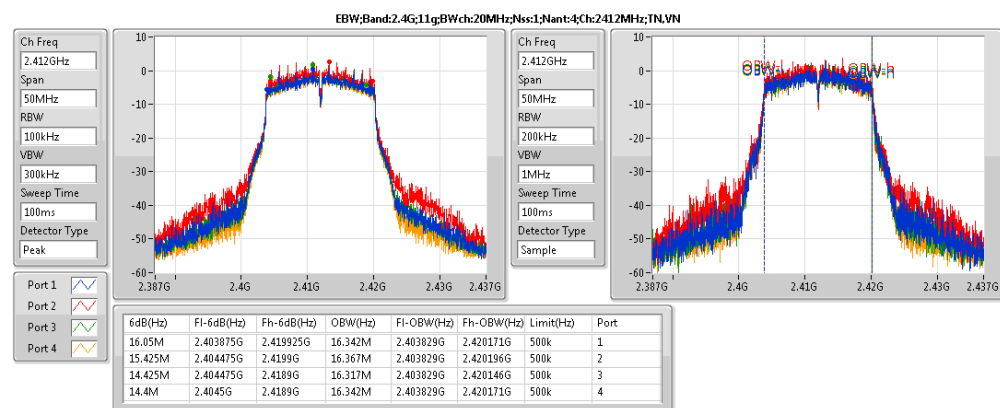
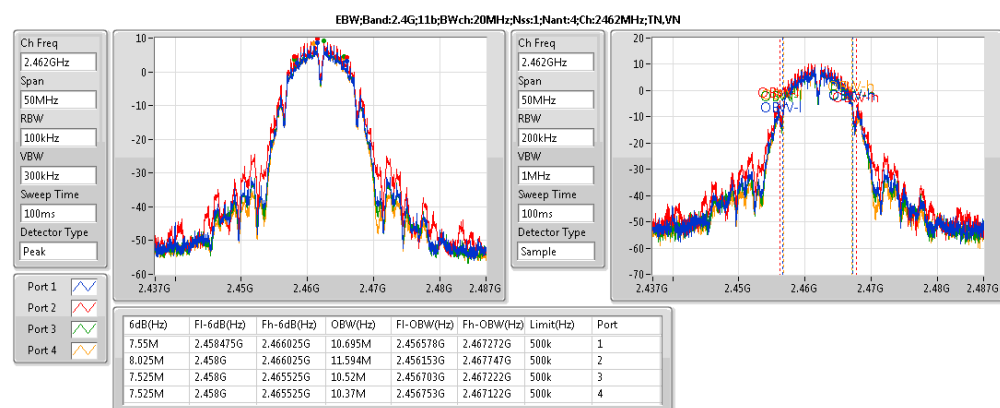
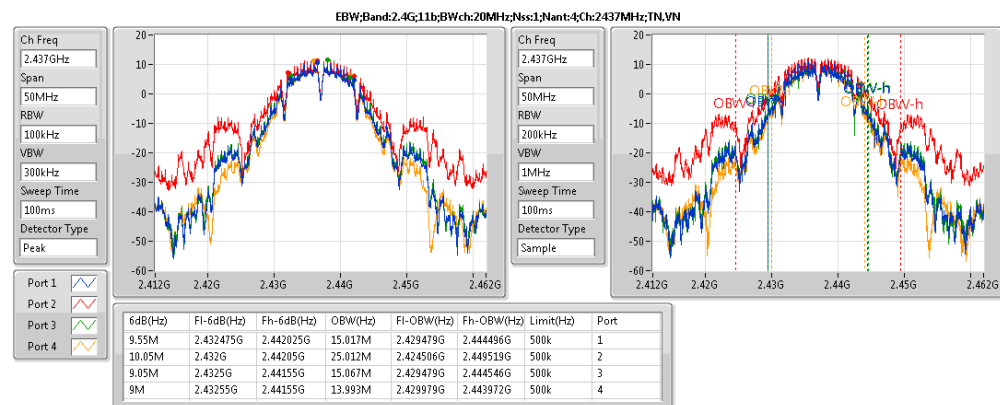
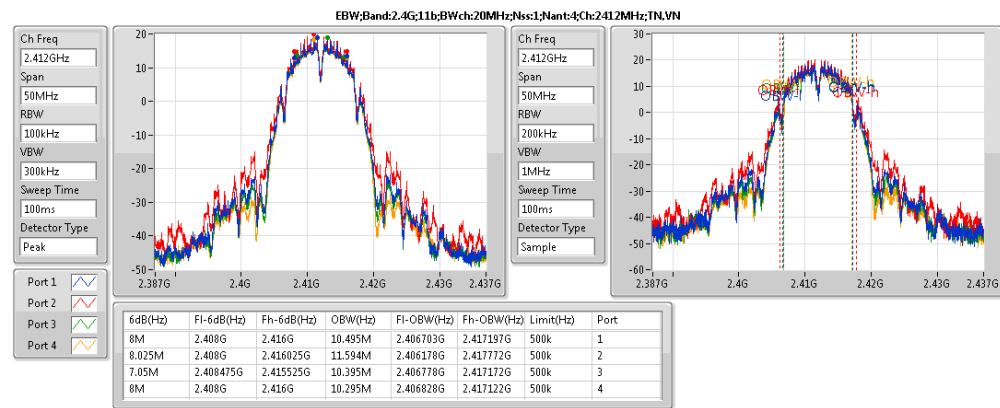
Summary

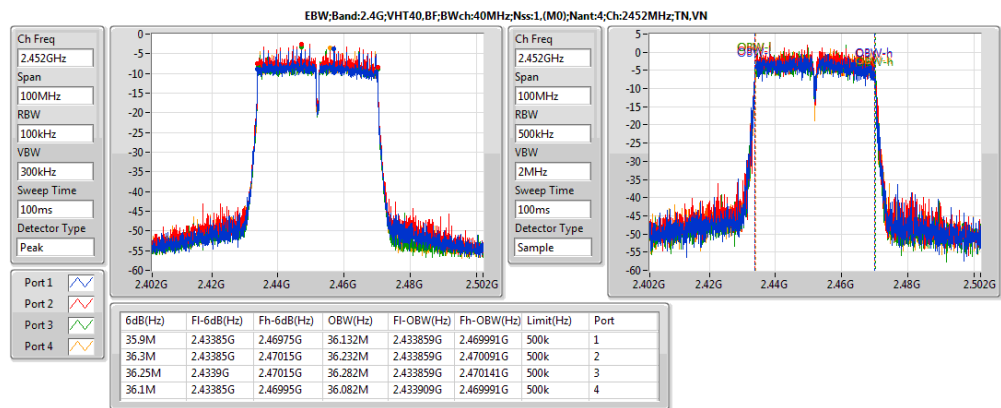
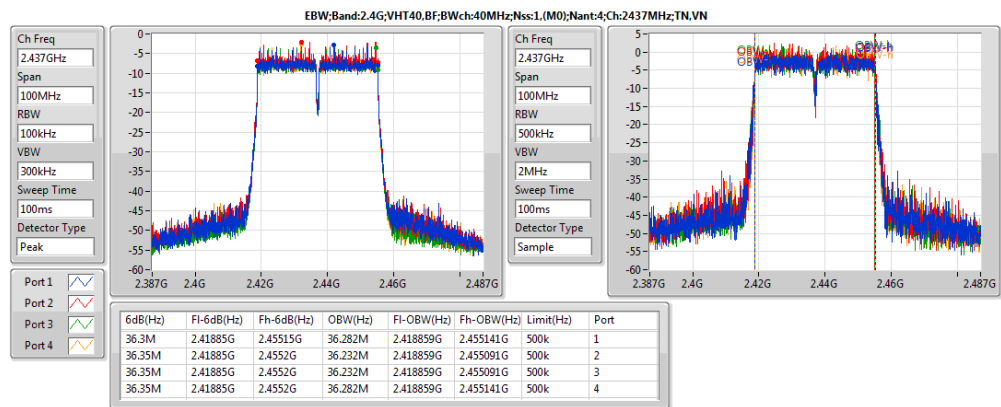
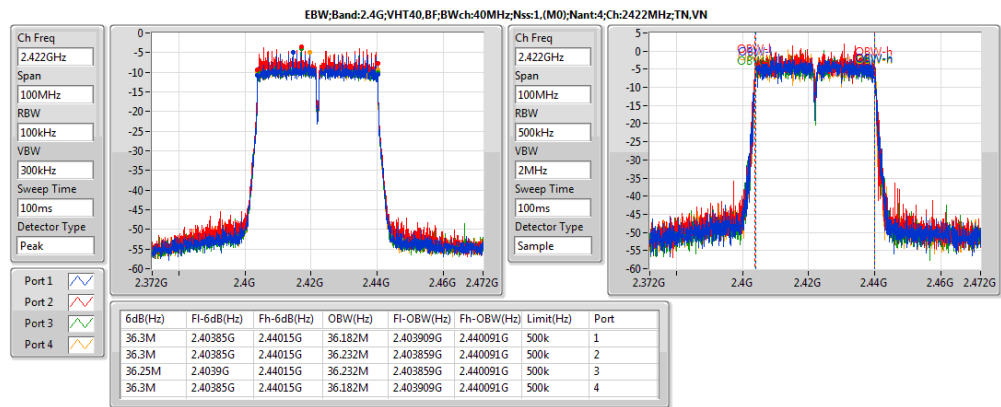
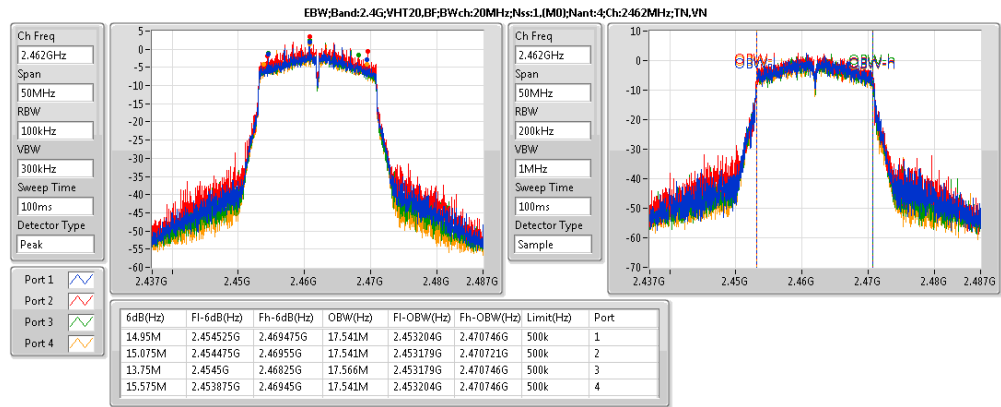
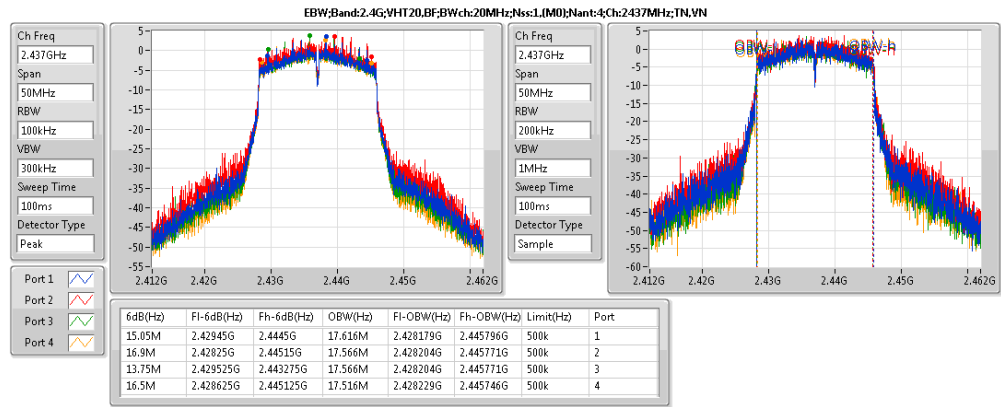
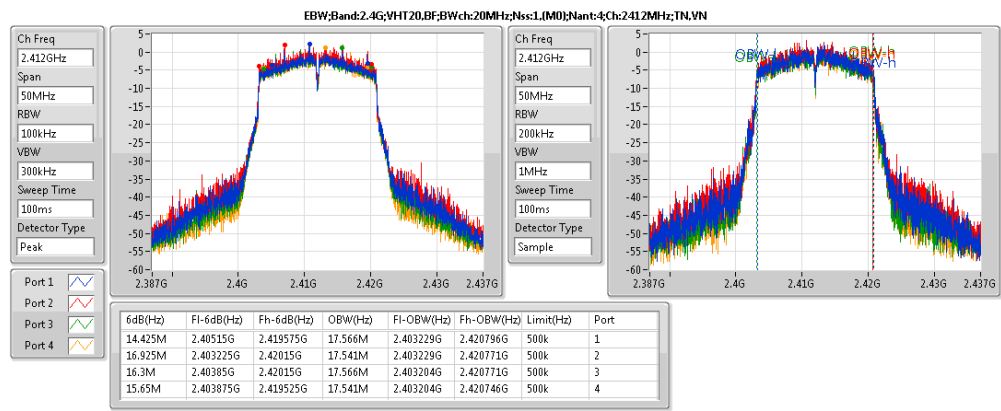
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4G;11b;Nss1;Ntx4	10.05M	25.012M	25M0G1D	7.05M	10.295M
2.4G;11g;Nss1;Ntx4	16.275M	31.109M	31M1D1D	12.625M	16.317M
2.4G;VHT20;Nss1,(M0);Ntx4	16.3M	24.363M	24M4D1D	14.1M	17.516M
2.4G;VHT40;Nss1,(M0);Ntx4	36.35M	36.332M	36M3D1D	35.7M	36.182M
2.4G;VHT20,BF;Nss1,(M0);Ntx4	16.925M	17.616M	17M6D1D	13.75M	17.516M
2.4G;VHT40,BF;Nss1,(M0);Ntx4	36.35M	36.282M	36M3D1D	35.9M	36.082M



Result

Mode	Result	Limit	P1-N dB (Hz)	P1-OBW (Hz)	P2-N dB (Hz)	P2-OBW (Hz)	P3-N dB (Hz)	P3-OBW (Hz)	P4-N dB (Hz)	P4-OBW (Hz)
2.4G;11b;Nss1;Ntx4;2412	Pass	500k	8M	10.495M	8.025M	11.594M	7.05M	10.395M	8M	10.295M
2.4G;11b;Nss1;Ntx4;2437	Pass	500k	9.55M	15.017M	10.05M	25.012M	9.05M	15.067M	9M	13.993M
2.4G;11b;Nss1;Ntx4;2462	Pass	500k	7.55M	10.695M	8.025M	11.594M	7.525M	10.52M	7.525M	10.37M
2.4G;11g;Nss1;Ntx4;2412	Pass	500k	16.05M	16.342M	15.425M	16.367M	14.425M	16.317M	14.4M	16.342M
2.4G;11g;Nss1;Ntx4;2437	Pass	500k	15.675M	17.891M	16.275M	31.109M	15.05M	18.316M	15.05M	16.992M
2.4G;11g;Nss1;Ntx4;2462	Pass	500k	16.025M	16.392M	12.625M	16.342M	15.05M	16.342M	15.675M	16.342M
2.4G;VHT20;Nss1,(M0);Ntx4;2412	Pass	500k	15M	17.566M	16.3M	17.516M	14.975M	17.541M	15.3M	17.566M
2.4G;VHT20;Nss1,(M0);Ntx4;2437	Pass	500k	15.075M	18.591M	16.25M	24.363M	15.05M	18.316M	16.275M	18.016M
2.4G;VHT20;Nss1,(M0);Ntx4;2462	Pass	500k	14.1M	17.591M	15.7M	17.566M	15.05M	17.541M	15.9M	17.516M
2.4G;VHT40;Nss1,(M0);Ntx4;2422	Pass	500k	36.3M	36.182M	36.3M	36.182M	36.3M	36.232M	36.3M	36.232M
2.4G;VHT40;Nss1,(M0);Ntx4;2437	Pass	500k	36.35M	36.232M	36.35M	36.332M	36.35M	36.332M	36.35M	36.282M
2.4G;VHT40;Nss1,(M0);Ntx4;2452	Pass	500k	36.3M	36.182M	35.7M	36.182M	35.7M	36.232M	35.95M	36.232M
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2412	Pass	500k	14.425M	17.566M	16.925M	17.541M	16.3M	17.566M	15.65M	17.541M
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2437	Pass	500k	15.05M	17.616M	16.9M	17.566M	13.75M	17.566M	16.5M	17.516M
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2462	Pass	500k	14.95M	17.541M	15.075M	17.541M	13.75M	17.566M	15.575M	17.541M
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2422	Pass	500k	36.3M	36.182M	36.3M	36.232M	36.25M	36.232M	36.3M	36.182M
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2437	Pass	500k	36.3M	36.282M	36.35M	36.232M	36.35M	36.232M	36.35M	36.282M
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2452	Pass	500k	35.9M	36.132M	36.3M	36.232M	36.25M	36.282M	36.1M	36.082M







Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
2.4G;11b;Nss1;Ntx4	27.19	0.5236	29.19	0.82985
2.4G;11g;Nss1;Ntx4	25.70	0.37154	27.70	0.58884
2.4G;VHT20;Nss1,(M0);Ntx4	26.58	0.45499	28.58	0.72111
2.4G;VHT40;Nss1,(M0);Ntx4	21.25	0.13335	23.25	0.21135
2.4G;VHT20,BF;Nss1,(M0);Ntx4	26.30	0.42658	34.32	2.70396
2.4G;VHT40,BF;Nss1,(M0);Ntx4	21.11	0.12912	29.13	0.81846



Result

Mode	Result	DG (dBi)	EIRP (dBm)	EIRP Lim. (dBm)	Sum (dBm)	Sum Lim. (dBm)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)
2.4G;11b;Nss1;Ntx4;2412	Pass	2.00	26.99	36.00	24.99	30.00	19.02	19.47	19.12	18.16
2.4G;11b;Nss1;Ntx4;2437	Pass	2.00	29.19	36.00	27.19	30.00	20.63	21.84	21.56	20.47
2.4G;11b;Nss1;Ntx4;2462	Pass	2.00	26.72	36.00	24.72	30.00	18.77	19.11	18.92	17.92
2.4G;11g;Nss1;Ntx4;2412	Pass	2.00	23.57	36.00	21.57	30.00	15.61	16.21	15.85	14.31
2.4G;11g;Nss1;Ntx4;2437	Pass	2.00	27.70	36.00	25.70	30.00	19.26	20.74	19.73	18.75
2.4G;11g;Nss1;Ntx4;2462	Pass	2.00	24.80	36.00	22.80	30.00	16.84	17.29	17.07	15.77
2.4G;VHT20;Nss1,(M0);Ntx4;2412	Pass	2.00	24.48	36.00	22.48	30.00	16.54	17.14	16.39	15.64
2.4G;VHT20;Nss1,(M0);Ntx4;2437	Pass	2.00	28.58	36.00	26.58	30.00	21.15	20.27	20.22	20.53
2.4G;VHT20;Nss1,(M0);Ntx4;2462	Pass	2.00	24.73	36.00	22.73	30.00	16.85	17.13	17.03	15.69
2.4G;VHT40;Nss1,(M0);Ntx4;2422	Pass	2.00	21.94	36.00	19.94	30.00	13.78	14.71	14.15	12.83
2.4G;VHT40;Nss1,(M0);Ntx4;2437	Pass	2.00	23.25	36.00	21.25	30.00	15.55	15.87	15.19	14.12
2.4G;VHT40;Nss1,(M0);Ntx4;2452	Pass	2.00	22.11	36.00	20.11	30.00	14.11	14.65	14.23	13.25
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2412	Pass	8.02	28.72	36.00	20.70	27.98	15.02	14.67	14.43	14.56
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2437	Pass	8.02	34.32	36.00	26.30	27.98	20.91	19.84	20.27	20
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2462	Pass	8.02	29.55	36.00	21.53	27.98	15.82	15.57	15.11	15.5
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2422	Pass	8.02	26.88	36.00	18.86	27.98	13.08	12.99	12.24	13.01
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2437	Pass	8.02	29.13	36.00	21.11	27.98	15.36	15	14.71	15.24
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2452	Pass	8.02	27.38	36.00	19.36	27.98	13.72	13.37	12.68	13.52



Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
2.4G;11b;Nss1;Ntx4	27.19	0.5236	35.79	3.79315
2.4G;11g;Nss1;Ntx4	25.96	0.39446	34.56	2.85759
2.4G;VHT20;Nss1,(M0);Ntx4	26.58	0.45499	35.18	3.2961
2.4G;VHT40;Nss1,(M0);Ntx4	19.85	0.09661	28.45	0.69984
2.4G;VHT20,BF;Nss1,(M0);Ntx4	21.30	0.1349	35.92	3.90841
2.4G;VHT40,BF;Nss1,(M0);Ntx4	19.36	0.0863	33.98	2.50035



Result

Mode	Result	DG (dBi)	EIRP (dBm)	EIRP Lim. (dBm)	Sum (dBm)	Sum Lim. (dBm)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)
2.4G;11b;Nss1;Ntx4;2412	Pass	8.60	32.48	36.00	23.88	27.40	17.74	18.67	18.06	16.73
2.4G;11b;Nss1;Ntx4;2437	Pass	8.60	35.79	36.00	27.19	27.40	20.63	21.84	21.56	20.47
2.4G;11b;Nss1;Ntx4;2462	Pass	8.60	32.82	36.00	24.22	27.40	18.25	18.57	18.65	17.19
2.4G;11g;Nss1;Ntx4;2412	Pass	8.60	28.39	36.00	19.79	27.40	13.53	14.46	14.17	12.70
2.4G;11g;Nss1;Ntx4;2437	Pass	8.60	34.56	36.00	25.96	27.40	19.35	21.1	19.88	19.13
2.4G;11g;Nss1;Ntx4;2462	Pass	8.60	29.22	36.00	20.62	27.40	14.63	15.41	14.66	13.47
2.4G;VHT20;Nss1,(M0);Ntx4;2412	Pass	8.60	29.18	36.00	20.58	27.40	14.71	15.42	14.46	13.44
2.4G;VHT20;Nss1,(M0);Ntx4;2437	Pass	8.60	35.18	36.00	26.58	27.40	21.15	20.27	20.22	20.53
2.4G;VHT20;Nss1,(M0);Ntx4;2462	Pass	8.60	29.30	36.00	20.70	27.40	14.9	15.38	14.62	13.62
2.4G;VHT40;Nss1,(M0);Ntx4;2422	Pass	8.60	26.44	36.00	17.84	27.40	11.94	12.56	11.73	10.87
2.4G;VHT40;Nss1,(M0);Ntx4;2437	Pass	8.60	28.45	36.00	19.85	27.40	14.11	14.56	13.71	12.75
2.4G;VHT40;Nss1,(M0);Ntx4;2452	Pass	8.60	27.42	36.00	18.82	27.40	12.64	13.62	12.88	11.87
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2412	Pass	14.62	34.82	36.00	20.20	21.38	14.52	14.17	13.93	14.06
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2437	Pass	14.62	35.92	36.00	21.30	21.38	15.91	14.84	15.27	15.00
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2462	Pass	14.62	34.65	36.00	20.03	21.38	14.32	14.07	13.61	14.00
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2422	Pass	14.62	31.98	36.00	17.36	21.38	11.58	11.49	10.74	11.51
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2437	Pass	14.62	33.98	36.00	19.36	21.38	13.61	13.25	12.96	13.49
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2452	Pass	14.62	32.98	36.00	18.36	21.38	12.72	12.37	11.68	12.52



Summary

Mode	PD (dBm/RBW)	EIRP.PD (dBm/RBW)
2.4G;11b;Nss1;Ntx4	1.13	9.15
2.4G;11g;Nss1;Ntx4	-1.20	6.82
2.4G;VHT20;Nss1,(M0);Ntx4	-2.57	5.46
2.4G;VHT40;Nss1,(M0);Ntx4	2.61	10.63
2.4G;VHT20,BF;Nss1,(M0);Ntx4	-2.16	5.86
2.4G;VHT40,BF;Nss1,(M0);Ntx4	2.03	10.05



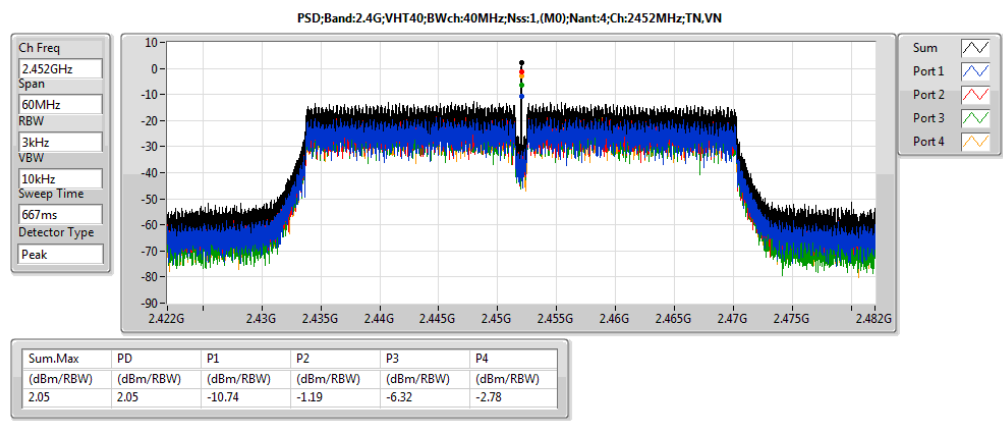
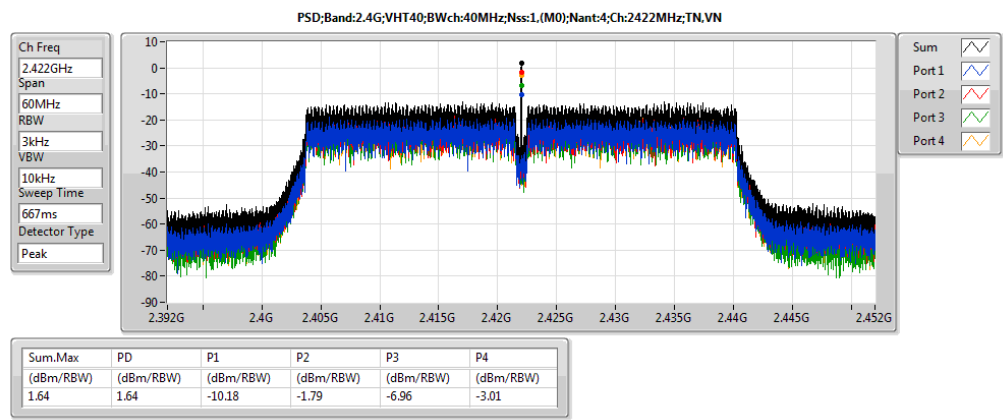
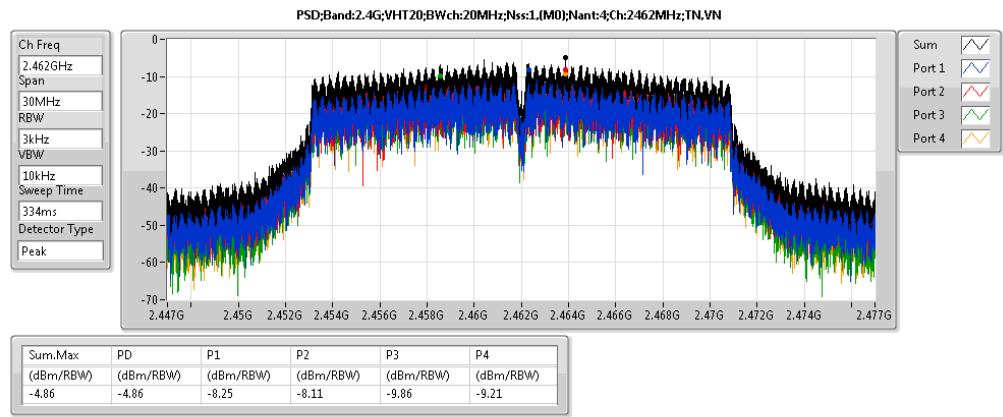
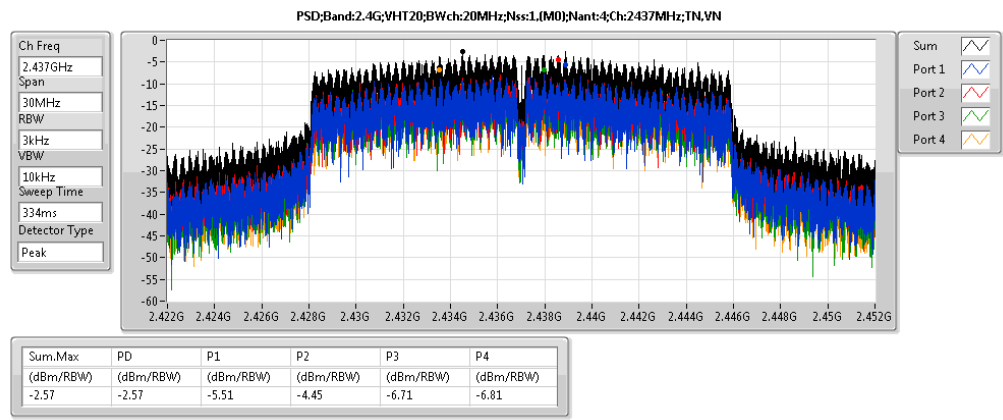
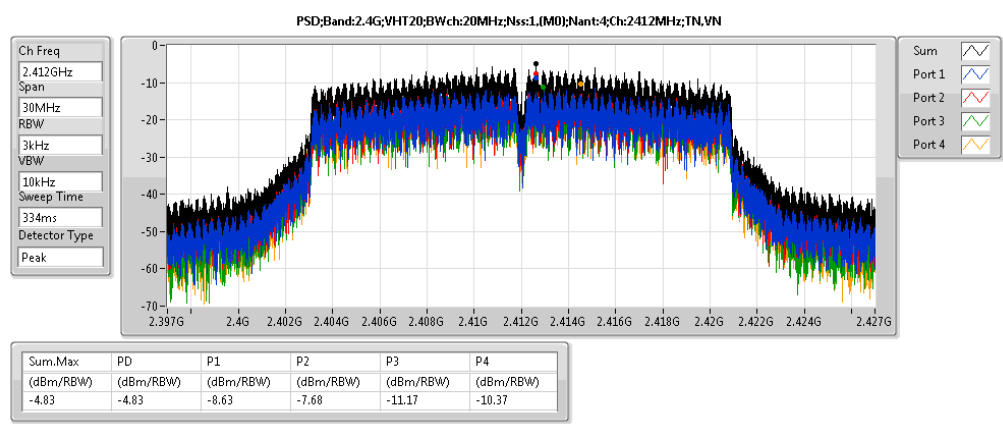
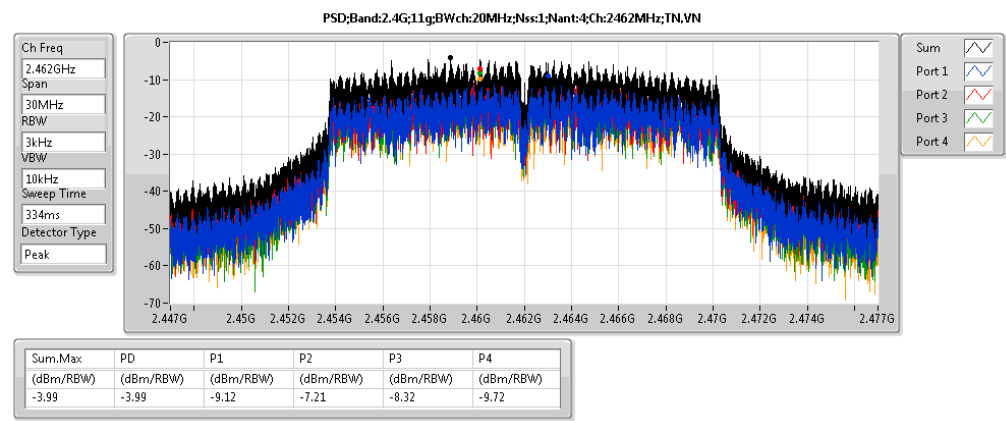
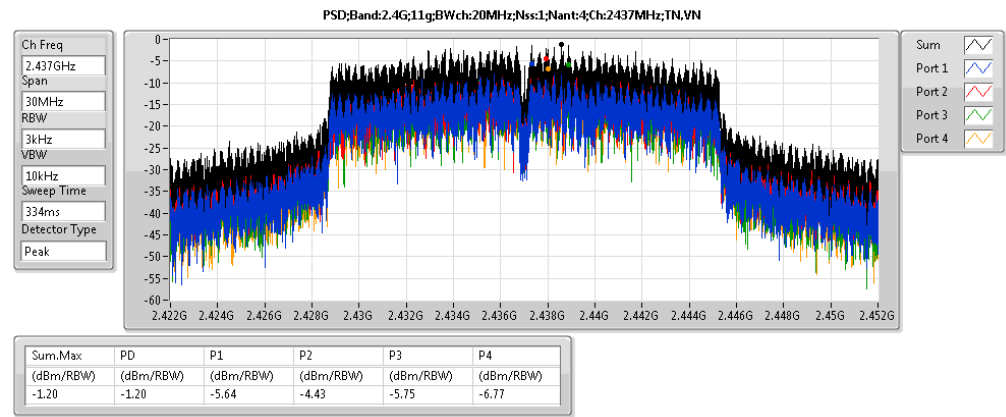
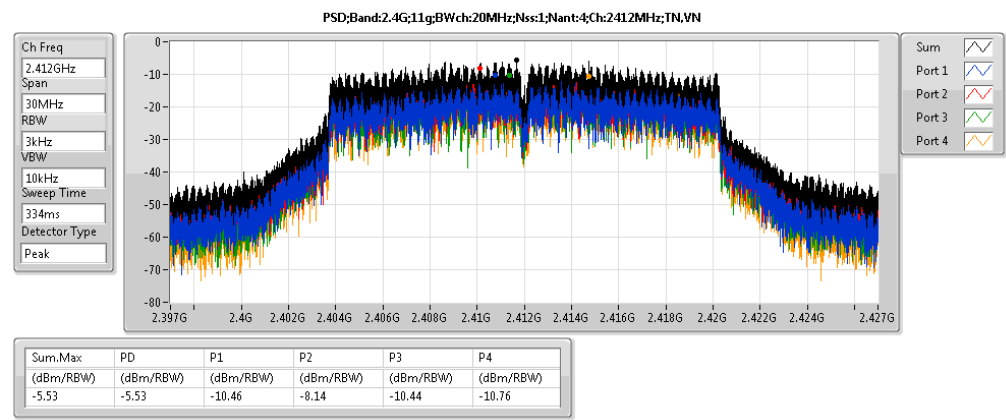
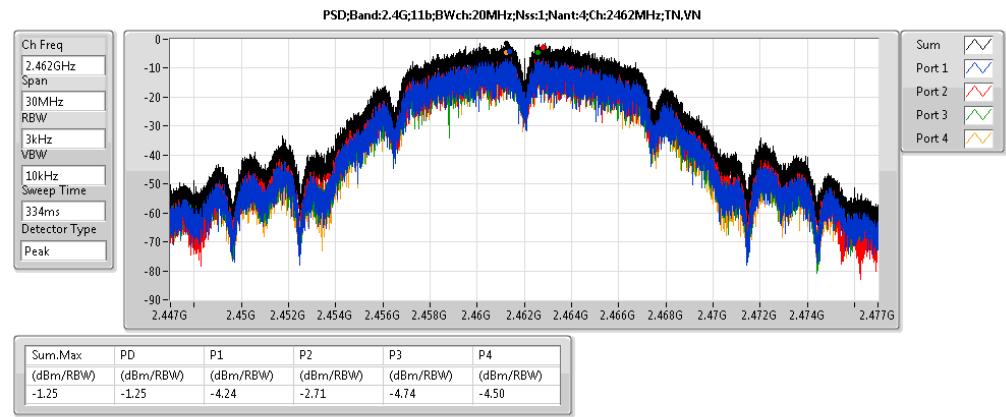
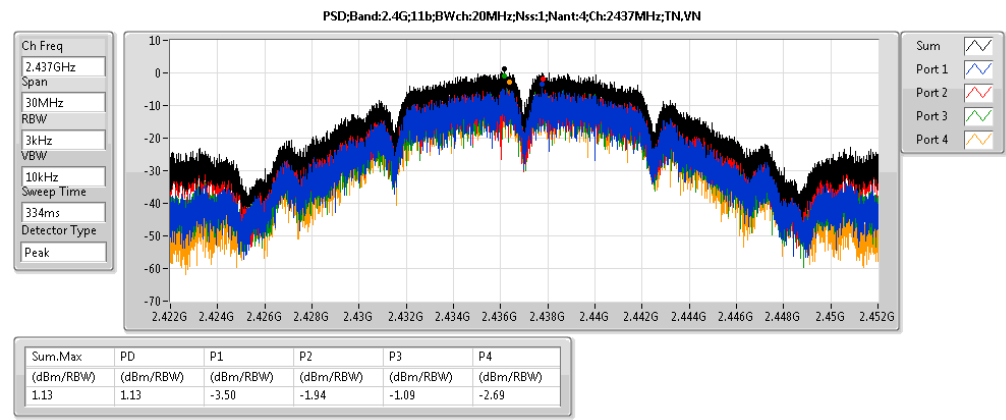
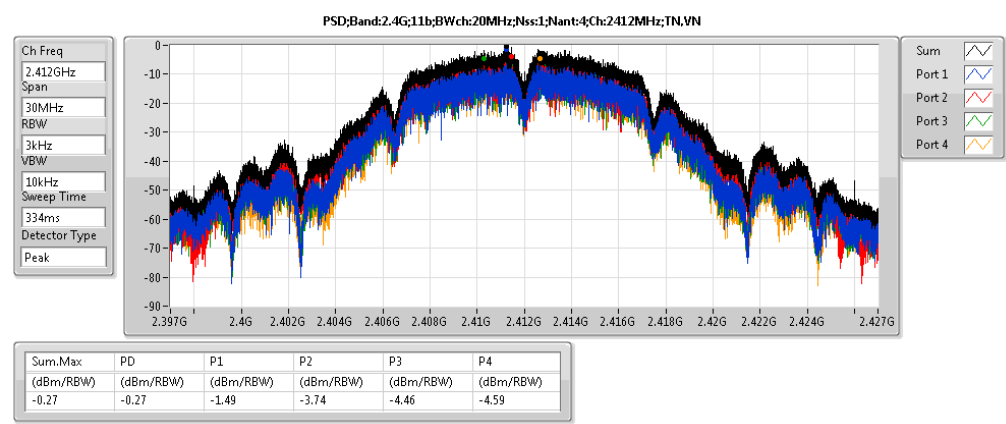
Result

Mode	Result	Meas.RBW (Hz)	Lim.RBW (Hz)	BWCF (dB)	DG (dBi)	Sum.Max (dBm/RBW)	PD (dBm/RBW)	PD.Limit (dBm/RBW)	EIRP.PD (dBm/RBW)	EIRP.PD.Li m (dBm/RBW)	P1 (dBm/RBW)	P2 (dBm/RBW)	P3 (dBm/RBW)	P4 (dBm/RBW)
2.4G;11b;Nss1;Ntx4;2412	Pass	3k	3k	0.00	8.02	-0.27	-0.27	5.98	7.76	Inf	-1.49	-3.74	-4.46	-4.59
2.4G;11b;Nss1;Ntx4;2437	Pass	3k	3k	0.00	8.02	1.13	1.13	5.98	9.15	Inf	-3.50	-1.94	-1.09	-2.69
2.4G;11b;Nss1;Ntx4;2462	Pass	3k	3k	0.00	8.02	-1.25	-1.25	5.98	6.77	Inf	-4.24	-2.71	-4.74	-4.50
2.4G;11g;Nss1;Ntx4;2412	Pass	3k	3k	0.00	8.02	-5.53	-5.53	5.98	2.49	Inf	-10.46	-8.14	-10.44	-10.76
2.4G;11g;Nss1;Ntx4;2437	Pass	3k	3k	0.00	8.02	-1.20	-1.20	5.98	6.82	Inf	-5.64	-4.43	-5.75	-6.77
2.4G;11g;Nss1;Ntx4;2462	Pass	3k	3k	0.00	8.02	-3.99	-3.99	5.98	4.03	Inf	-9.12	-7.21	-8.32	-9.72
2.4G;VHT20;Nss1,(M0);Ntx4;2412	Pass	3k	3k	0.00	8.02	-4.83	-4.83	5.98	3.19	Inf	-8.63	-7.68	-11.17	-10.37
2.4G;VHT20;Nss1,(M0);Ntx4;2437	Pass	3k	3k	0.00	8.02	-2.57	-2.57	5.98	5.46	Inf	-5.51	-4.45	-6.71	-6.81
2.4G;VHT20;Nss1,(M0);Ntx4;2462	Pass	3k	3k	0.00	8.02	-4.86	-4.86	5.98	3.16	Inf	-8.25	-8.11	-9.86	-9.21
2.4G;VHT40;Nss1,(M0);Ntx4;2422	Pass	3k	3k	0.00	8.02	1.64	1.64	5.98	9.66	Inf	-10.18	-1.79	-6.96	-3.01
2.4G;VHT40;Nss1,(M0);Ntx4;2437	Pass	3k	3k	0.00	8.02	2.61	2.61	5.98	10.63	Inf	-10.73	-0.82	-4.96	-2.28
2.4G;VHT40;Nss1,(M0);Ntx4;2452	Pass	3k	3k	0.00	8.02	2.05	2.05	5.98	10.07	Inf	-10.74	-1.19	-6.32	-2.78
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2412	Pass	3k	3k	0.00	8.02	-7.62	-7.62	5.98	0.40	Inf	-11.07	-9.53	-10.89	-11.22
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2437	Pass	3k	3k	0.00	8.02	-2.16	-2.16	5.98	5.86	Inf	-6.28	-4.73	-6.63	-5.89
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2462	Pass	3k	3k	0.00	8.02	-6.90	-6.90	5.98	1.13	Inf	-11.00	-9.79	-10.64	-10.43
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2422	Pass	3k	3k	0.00	8.02	0.16	0.16	5.98	8.18	Inf	-11.58	-3.35	-7.15	-5.05
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2437	Pass	3k	3k	0.00	8.02	2.03	2.03	5.98	10.05	Inf	-10.96	-1.22	-6.82	-2.57
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2452	Pass	3k	3k	0.00	8.02	1.96	1.96	5.98	9.98	Inf	-11.36	-1.17	-6.36	-3.00



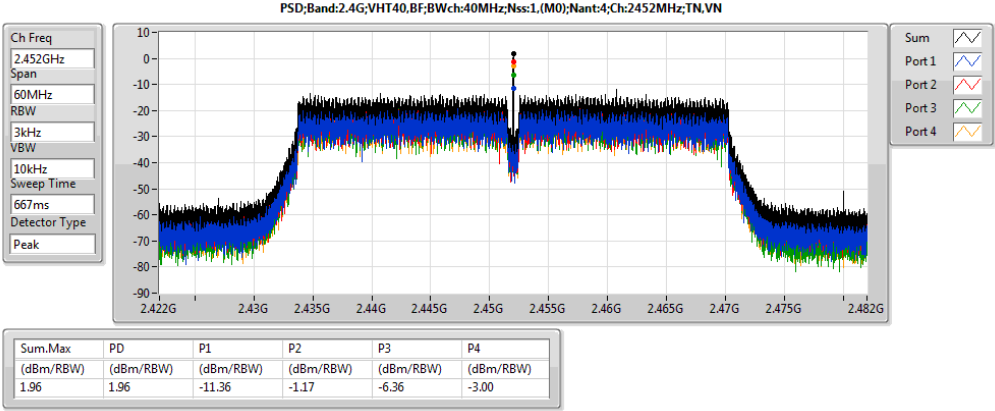
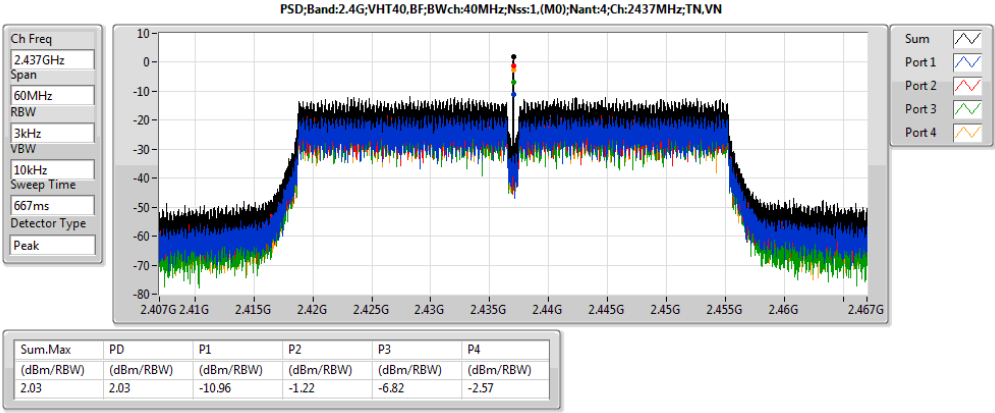
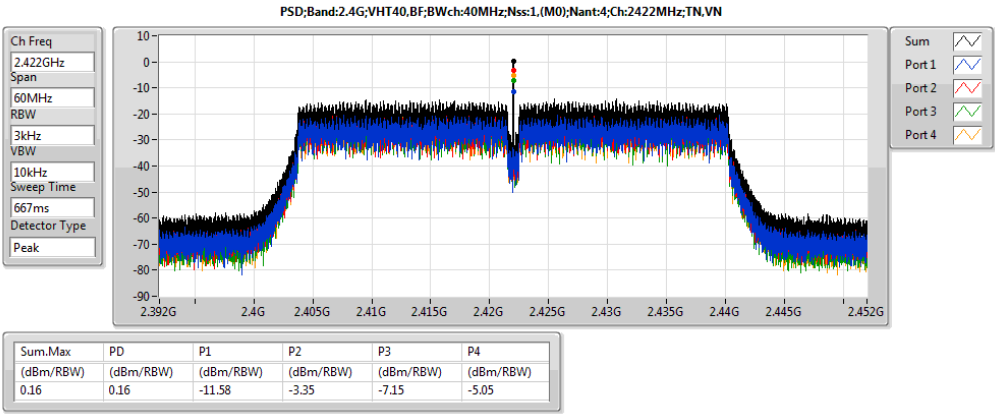
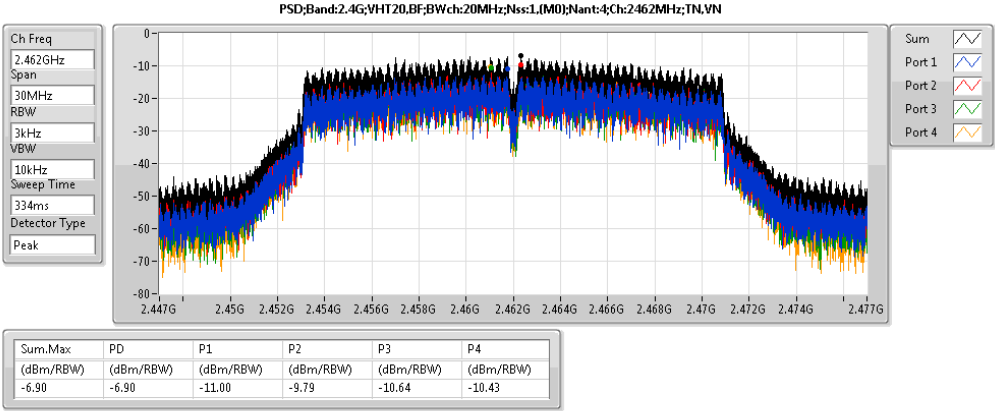
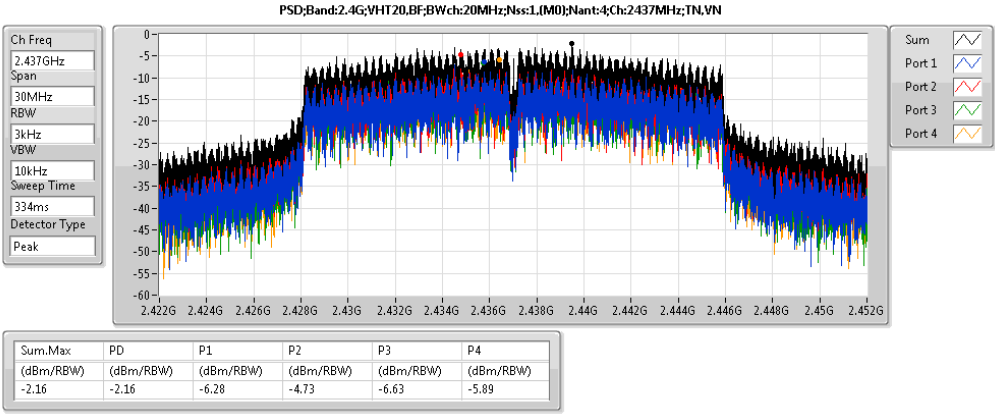
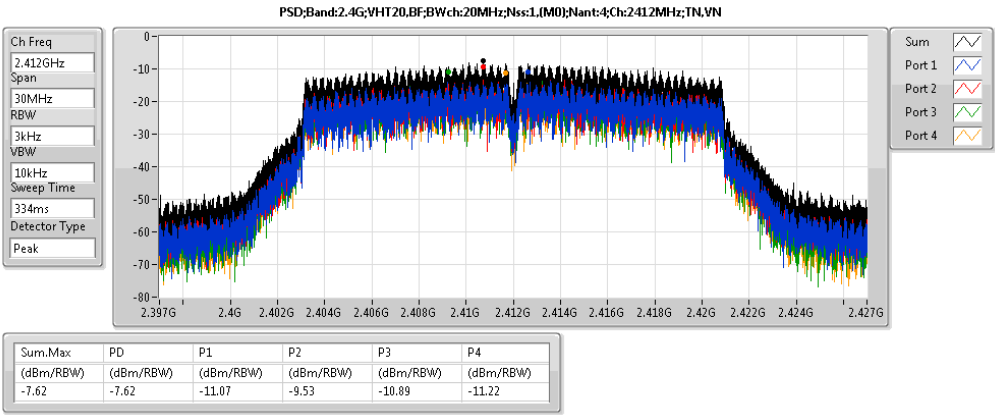
Antenna 1 PSD Result

Appendix D





Antenna 1 PSD Result





Summary

Mode	PD (dBm/RBW)	EIRP.PD (dBm/RBW)
2.4G;11b;Nss1;Ntx4	-6.15	8.47
2.4G;11g;Nss1;Ntx4	-8.06	6.56
2.4G;VHT20;Nss1,(M0);Ntx4	-9.31	5.31
2.4G;VHT40;Nss1,(M0);Ntx4	-15.47	-0.85
2.4G;VHT20,BF;Nss1,(M0);Ntx4	-14.12	0.50
2.4G;VHT40,BF;Nss1,(M0);Ntx4	-21.01	-6.39



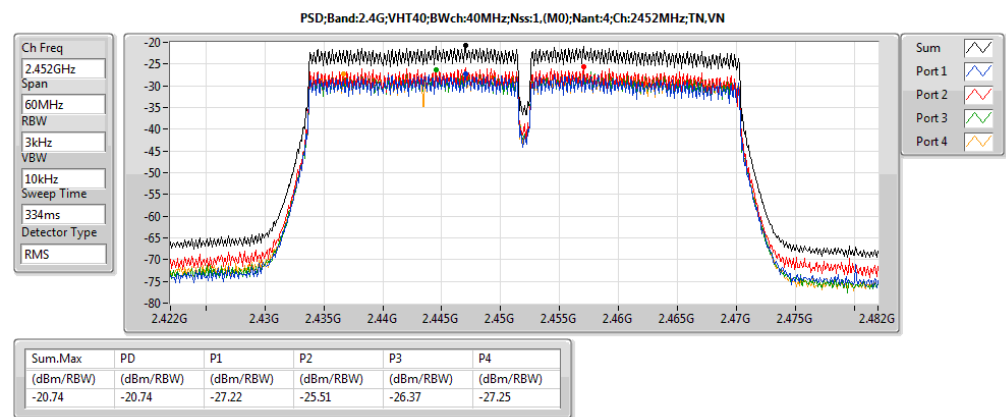
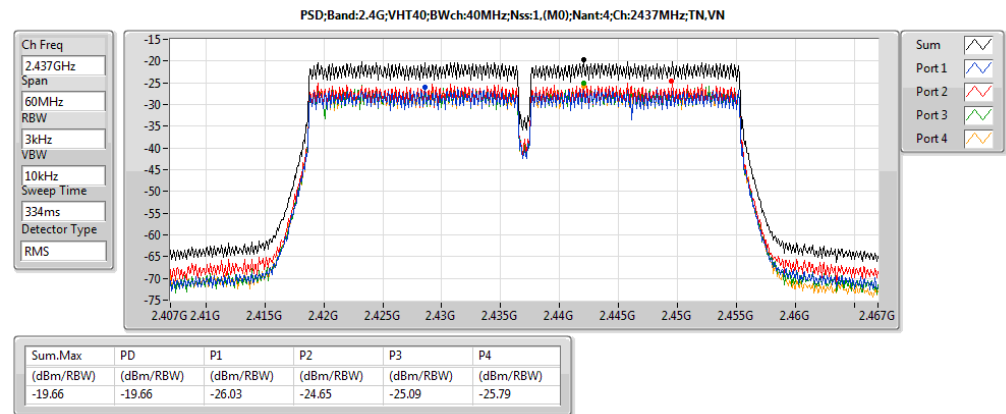
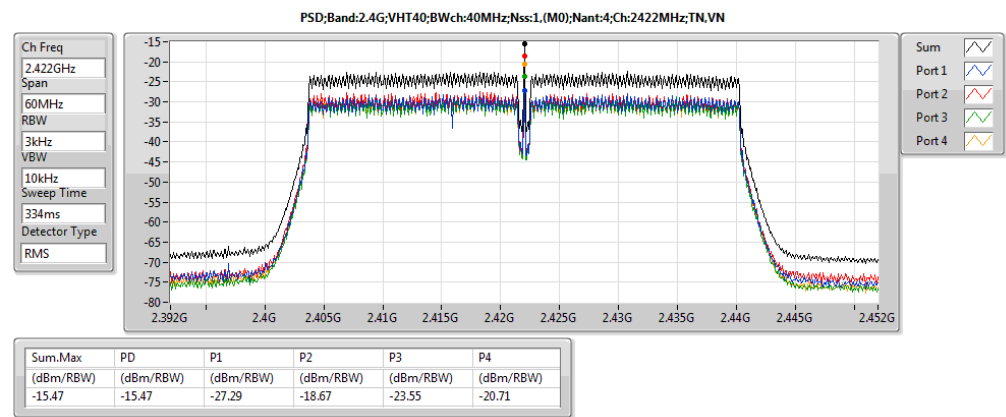
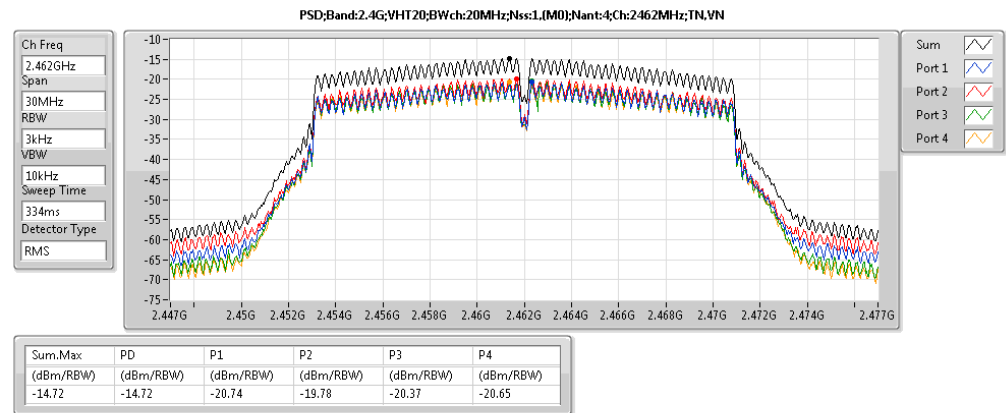
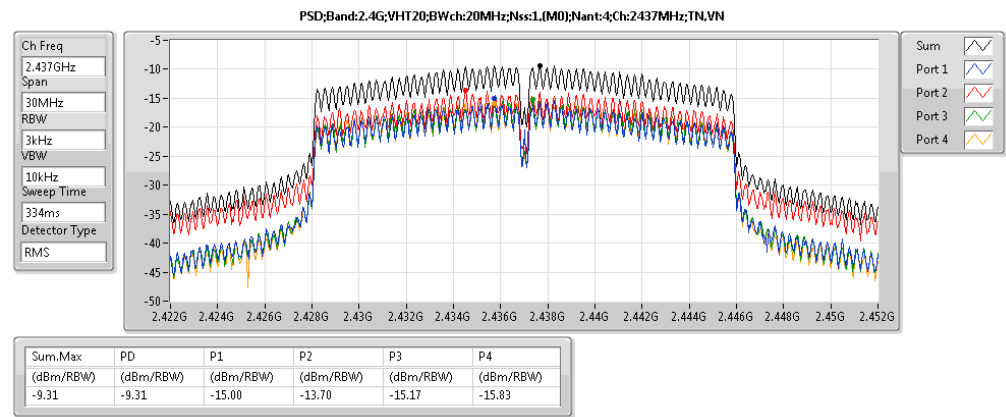
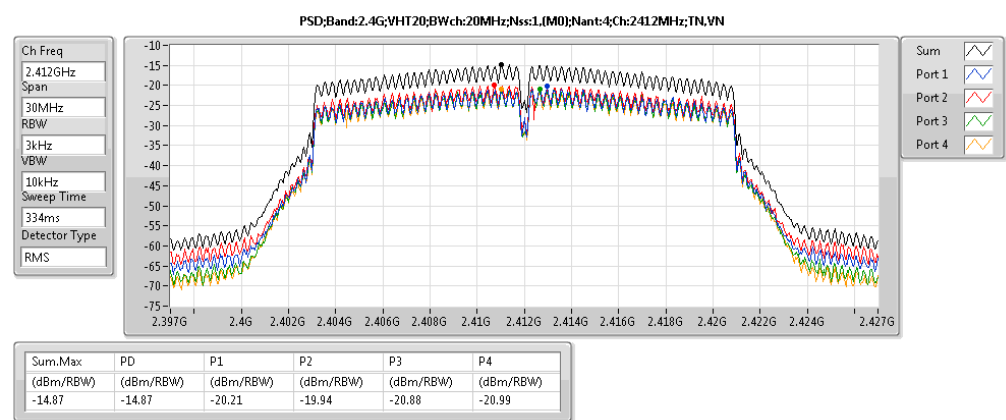
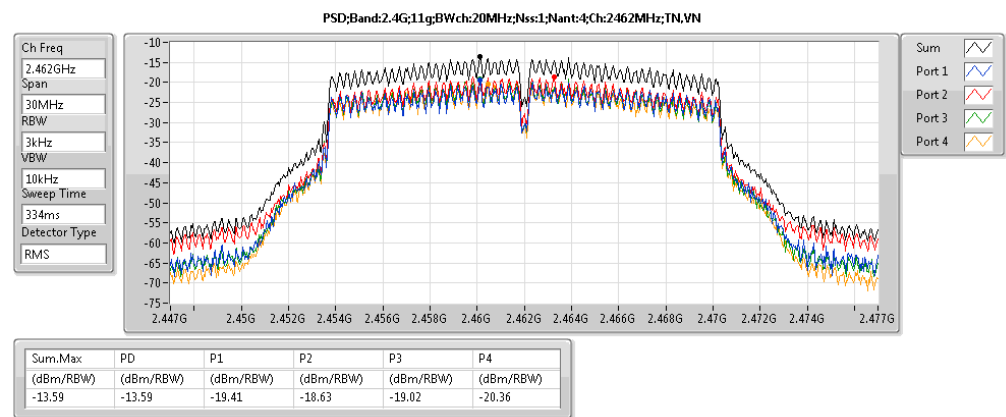
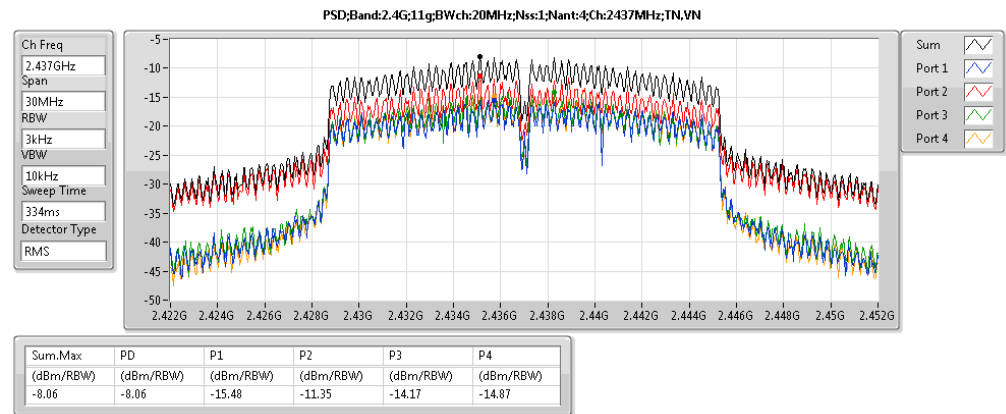
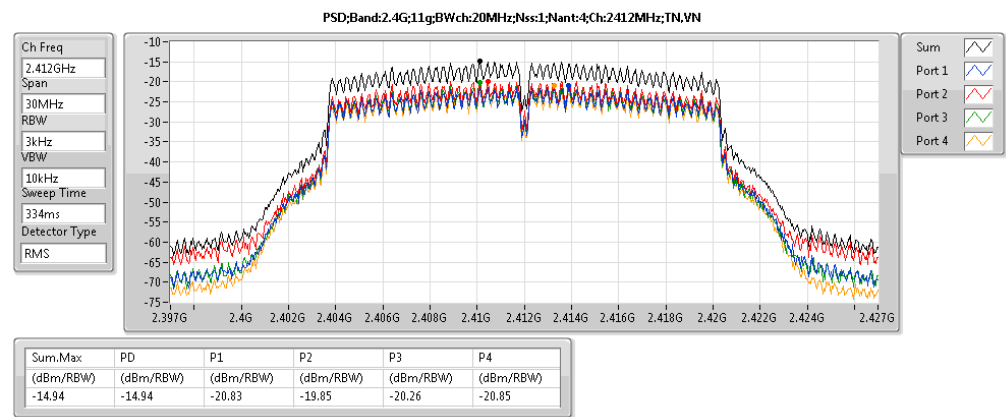
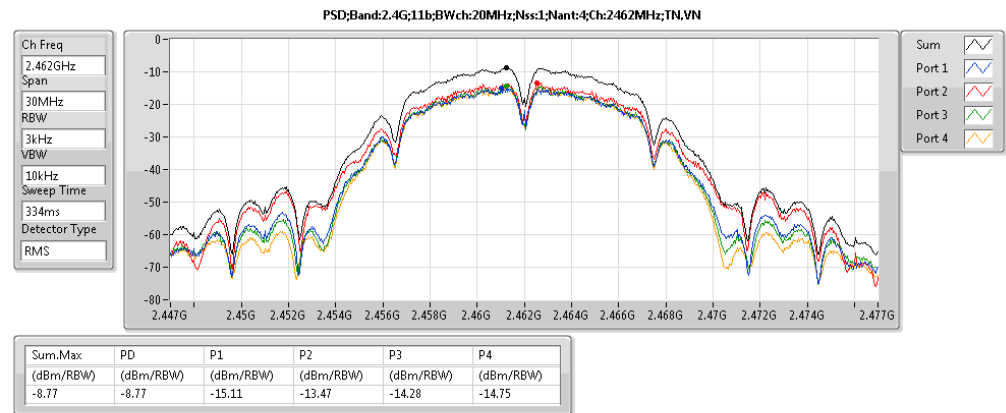
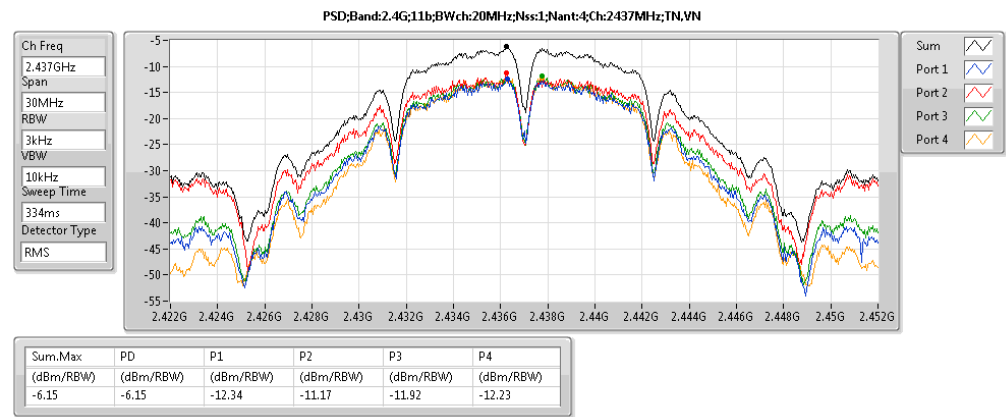
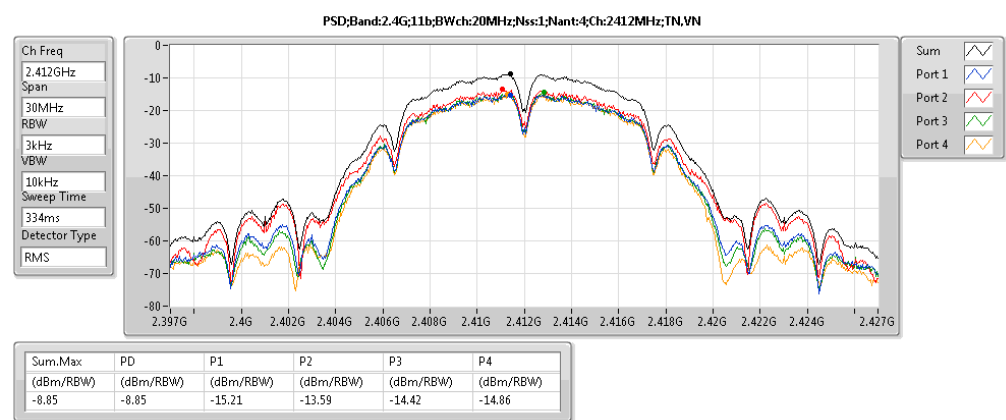
Result

Mode	Result	Meas.RBW (Hz)	Lim.RBW (Hz)	BWCF (dB)	DG (dBi)	Sum.Max (dBm/RBW)	PD (dBm/RBW)	PD.Limit (dBm/RBW)	EIRP.PD (dBm/RBW)	EIRP.PD.Li m (dBm/RBW)	P1 (dBm/RBW)	P2 (dBm/RBW)	P3 (dBm/RBW)	P4 (dBm/RBW)
2.4G;11b;Nss1;Ntx4;2412	Pass	3k	3k	0.00	14.62	-8.85	-8.85	-0.62	5.77	Inf	-15.21	-13.59	-14.42	-14.86
2.4G;11b;Nss1;Ntx4;2437	Pass	3k	3k	0.00	14.62	-6.15	-6.15	-0.62	8.47	Inf	-12.34	-11.17	-11.92	-12.23
2.4G;11b;Nss1;Ntx4;2462	Pass	3k	3k	0.00	14.62	-8.77	-8.77	-0.62	5.85	Inf	-15.11	-13.47	-14.28	-14.75
2.4G;11g;Nss1;Ntx4;2412	Pass	3k	3k	0.00	14.62	-14.94	-14.94	-0.62	-0.32	Inf	-20.83	-19.85	-20.26	-20.85
2.4G;11g;Nss1;Ntx4;2437	Pass	3k	3k	0.00	14.62	-8.06	-8.06	-0.62	6.56	Inf	-15.48	-11.35	-14.17	-14.87
2.4G;11g;Nss1;Ntx4;2462	Pass	3k	3k	0.00	14.62	-13.59	-13.59	-0.62	1.03	Inf	-19.41	-18.63	-19.02	-20.36
2.4G;VHT20;Nss1,(M0);Ntx4;2412	Pass	3k	3k	0.00	14.62	-14.87	-14.87	-0.62	-0.25	Inf	-20.21	-19.94	-20.88	-20.99
2.4G;VHT20;Nss1,(M0);Ntx4;2437	Pass	3k	3k	0.00	14.62	-9.31	-9.31	-0.62	5.31	Inf	-15.00	-13.70	-15.17	-15.83
2.4G;VHT20;Nss1,(M0);Ntx4;2462	Pass	3k	3k	0.00	14.62	-14.72	-14.72	-0.62	-0.10	Inf	-20.74	-19.78	-20.37	-20.65
2.4G;VHT40;Nss1,(M0);Ntx4;2422	Pass	3k	3k	0.00	14.62	-15.47	-15.47	-0.62	-0.85	Inf	-27.29	-18.67	-23.55	-20.71
2.4G;VHT40;Nss1,(M0);Ntx4;2437	Pass	3k	3k	0.00	14.62	-19.66	-19.66	-0.62	-5.04	Inf	-26.03	-24.65	-25.09	-25.79
2.4G;VHT40;Nss1,(M0);Ntx4;2452	Pass	3k	3k	0.00	14.62	-20.74	-20.74	-0.62	-6.12	Inf	-27.22	-25.51	-26.37	-27.25
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2412	Pass	3k	3k	0.00	14.62	-14.90	-14.90	-0.62	-0.28	Inf	-20.31	-19.98	-21.04	-21.60
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2437	Pass	3k	3k	0.00	14.62	-14.12	-14.12	-0.62	0.50	Inf	-20.01	-18.94	-19.84	-19.82
2.4G;VHT20,BF;Nss1,(M0);Ntx4;2462	Pass	3k	3k	0.00	14.62	-15.41	-15.41	-0.62	-0.79	Inf	-21.17	-20.18	-20.86	-21.71
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2422	Pass	3k	3k	0.00	14.62	-22.44	-22.44	-0.62	-7.82	Inf	-28.70	-27.18	-28.65	-28.77
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2437	Pass	3k	3k	0.00	14.62	-21.01	-21.01	-0.62	-6.39	Inf	-26.78	-26.10	-26.21	-26.62
2.4G;VHT40,BF;Nss1,(M0);Ntx4;2452	Pass	3k	3k	0.00	14.62	-21.21	-21.21	-0.62	-6.59	Inf	-27.86	-26.09	-27.60	-26.99



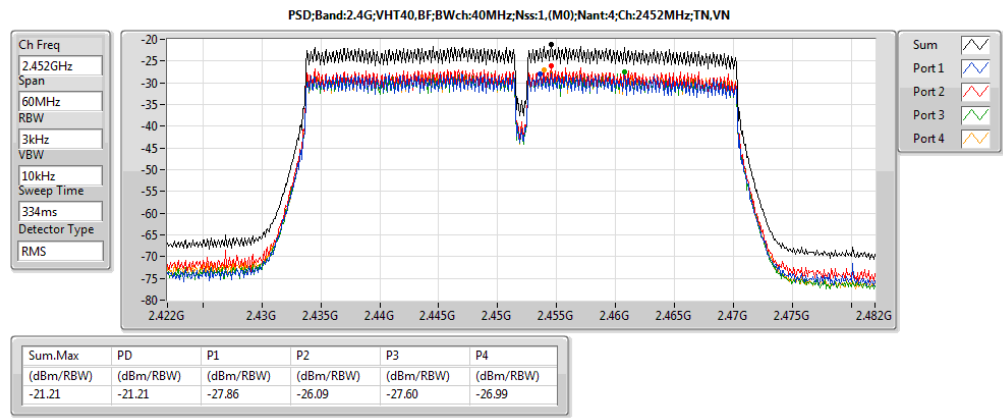
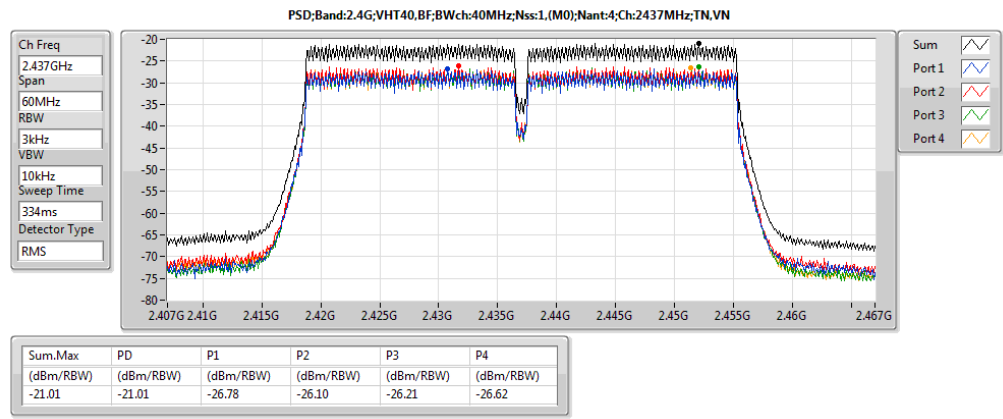
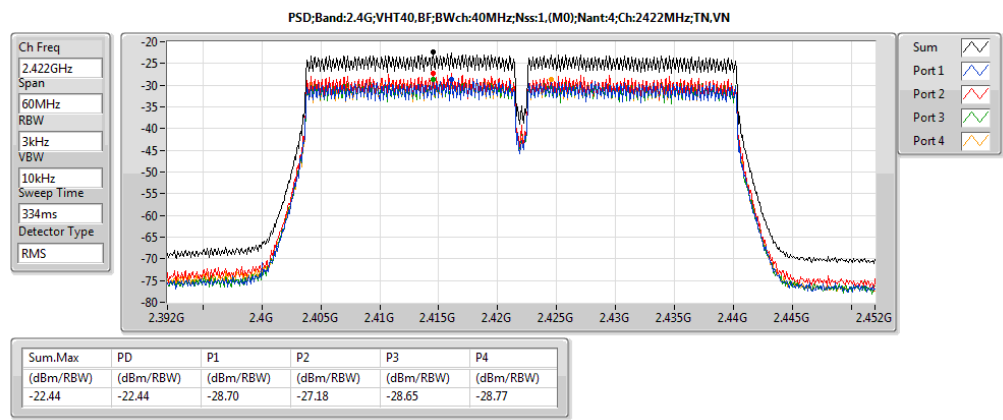
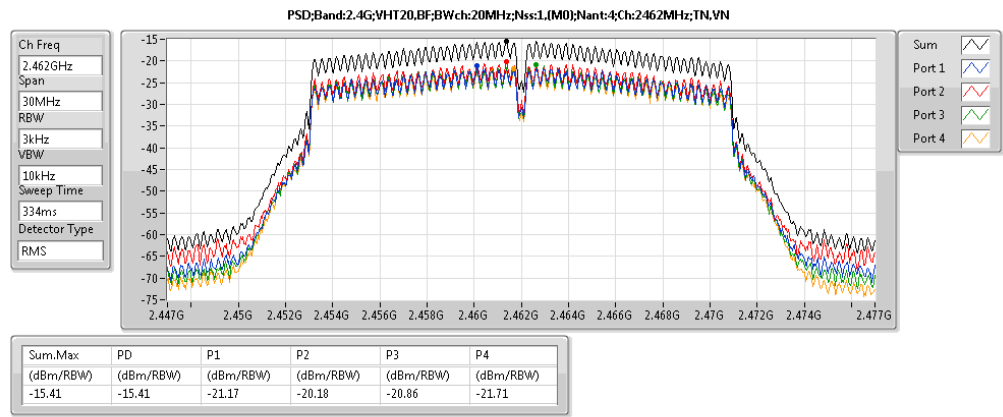
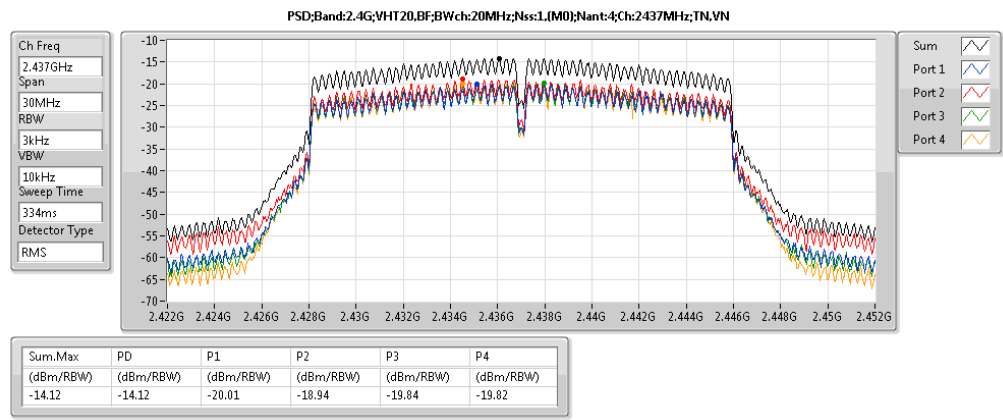
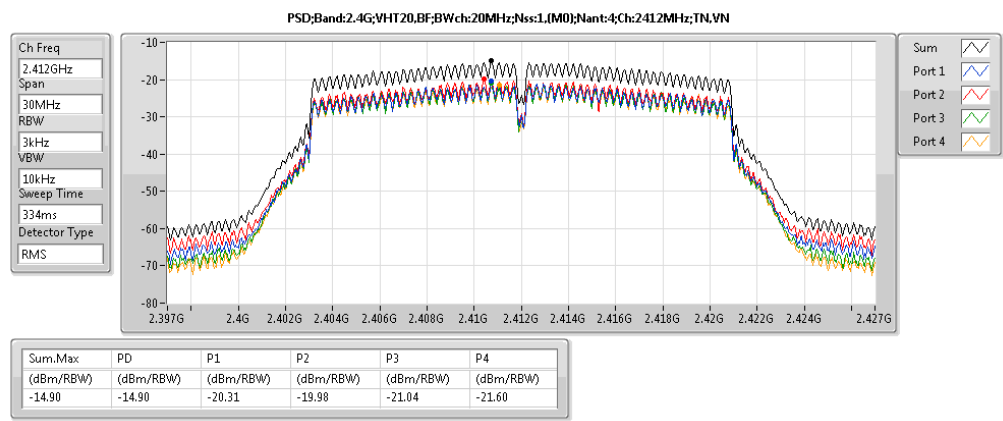
Antenna 2 PSD Result

Appendix D

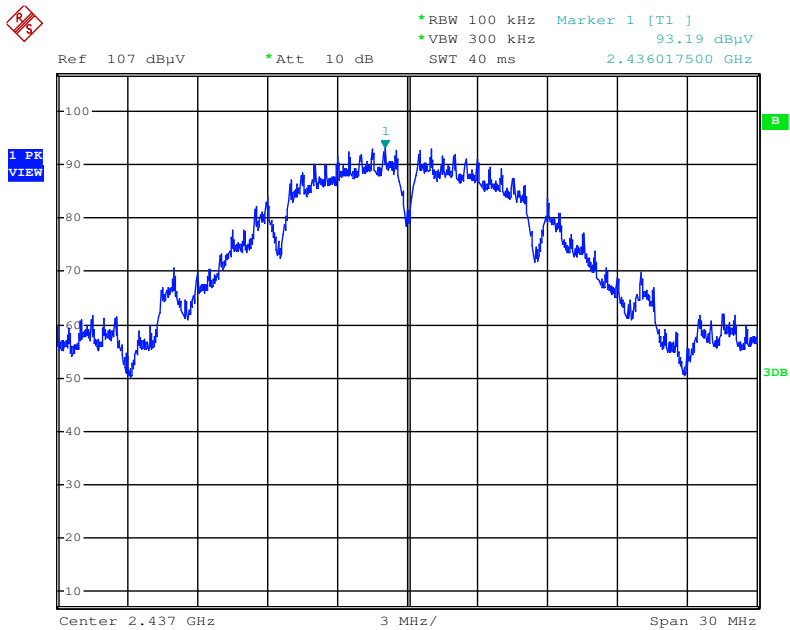




Antenna 2 PSD Result

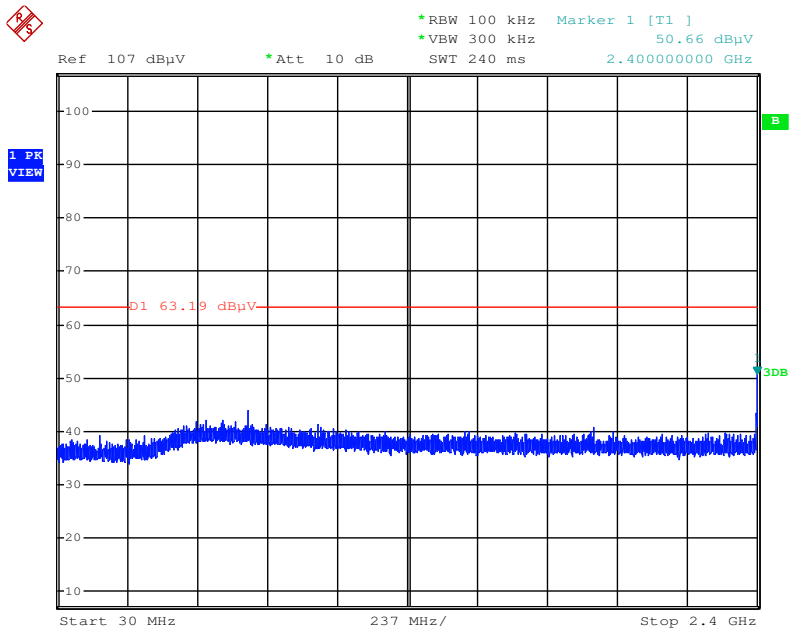


For Antenna 1
<For Non-Beamforming Mode>
Plot on Configuration IEEE 802.11b / Reference Level



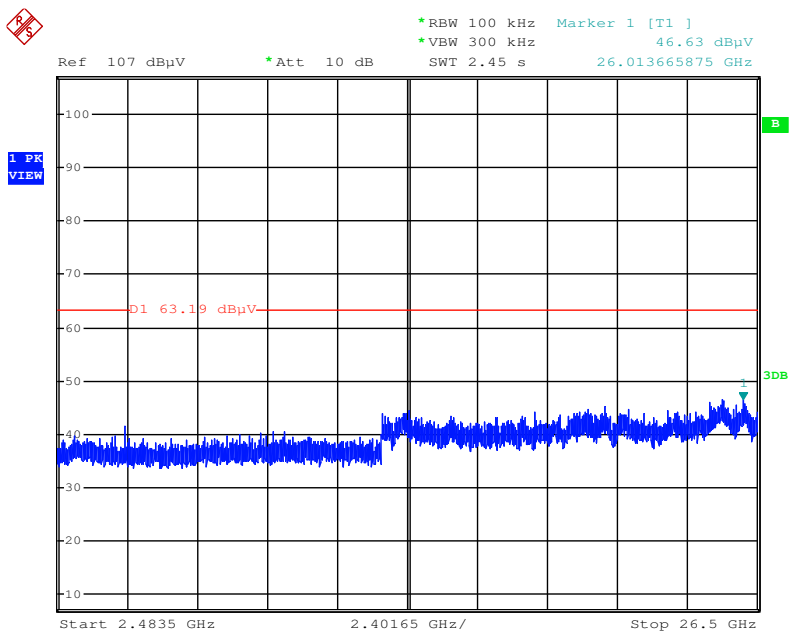
Date: 13.AUG.2016 21:14:24

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



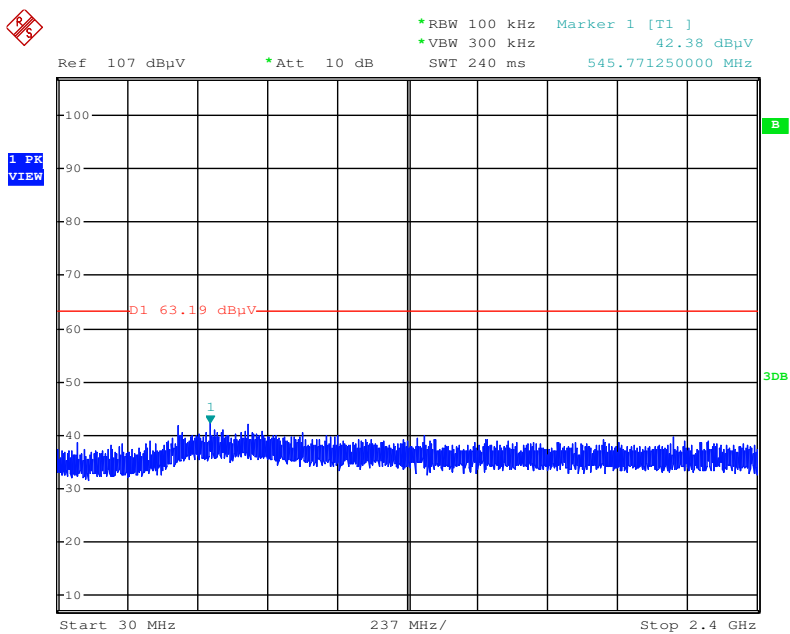
Date: 13.AUG.2016 21:16:15

Plot on Configuration IEEE 802.11b / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



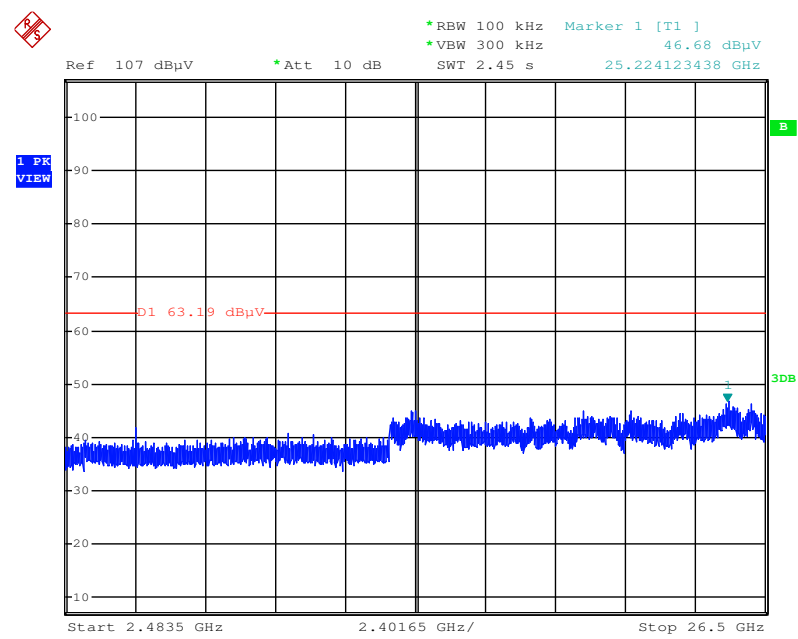
Date: 13.AUG.2016 21:16:52

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



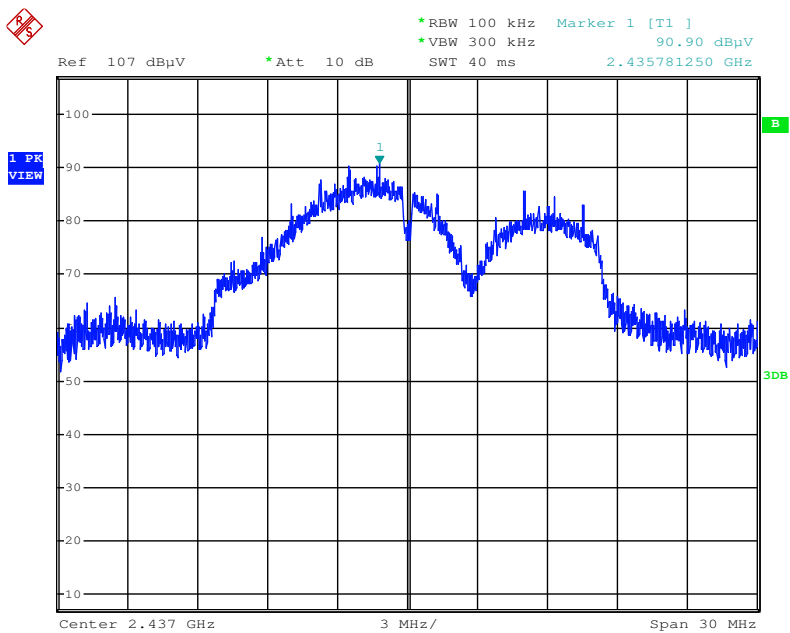
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Plot on Configuration IEEE 802.11b / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



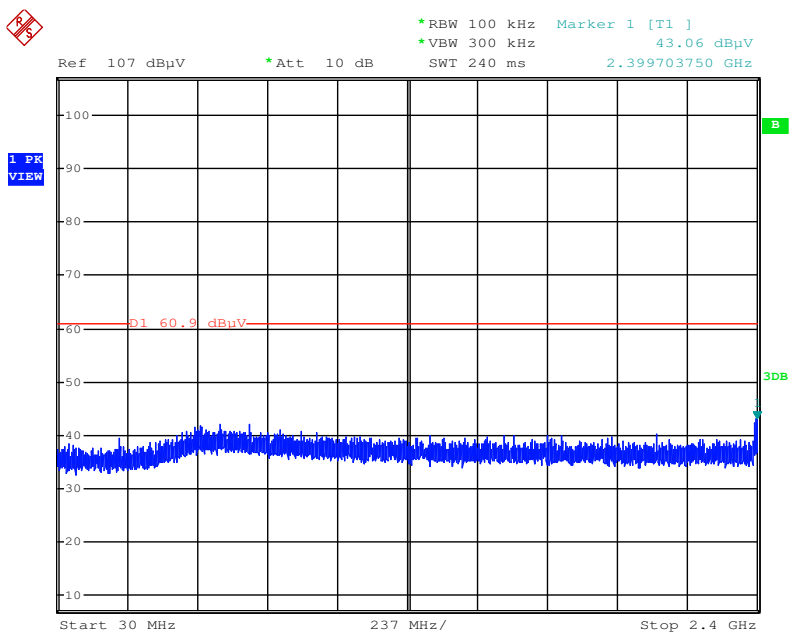
Date: 13.AUG.2016 21:18:15

Plot on Configuration IEEE 802.11g / Reference Level



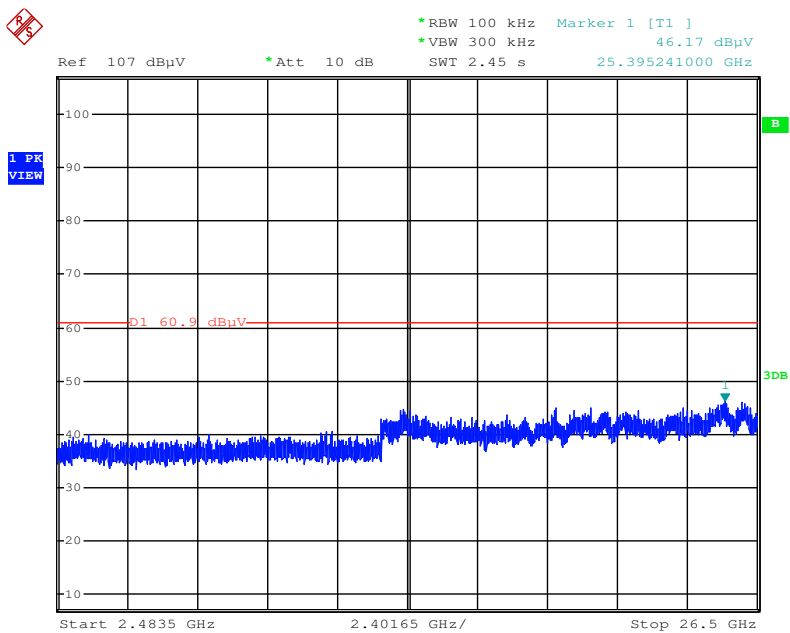
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Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



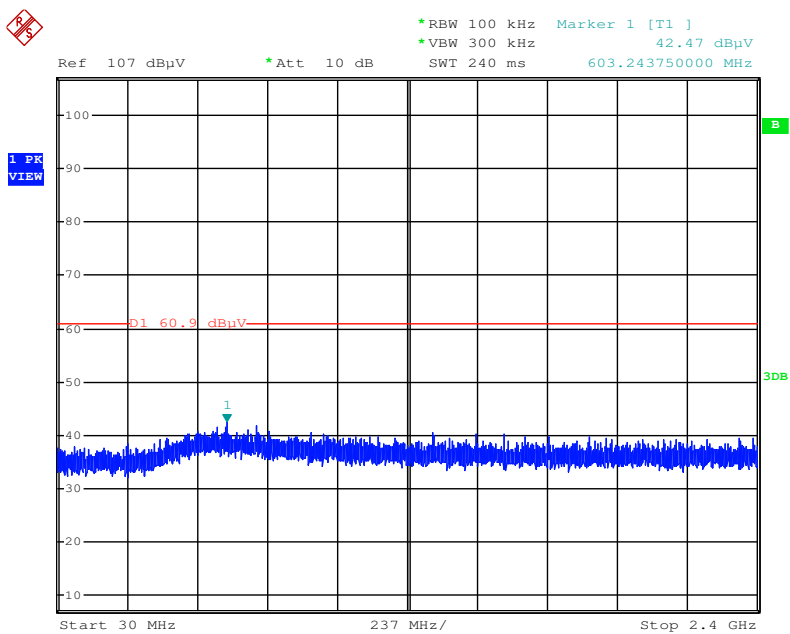
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Plot on Configuration IEEE 802.11g / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



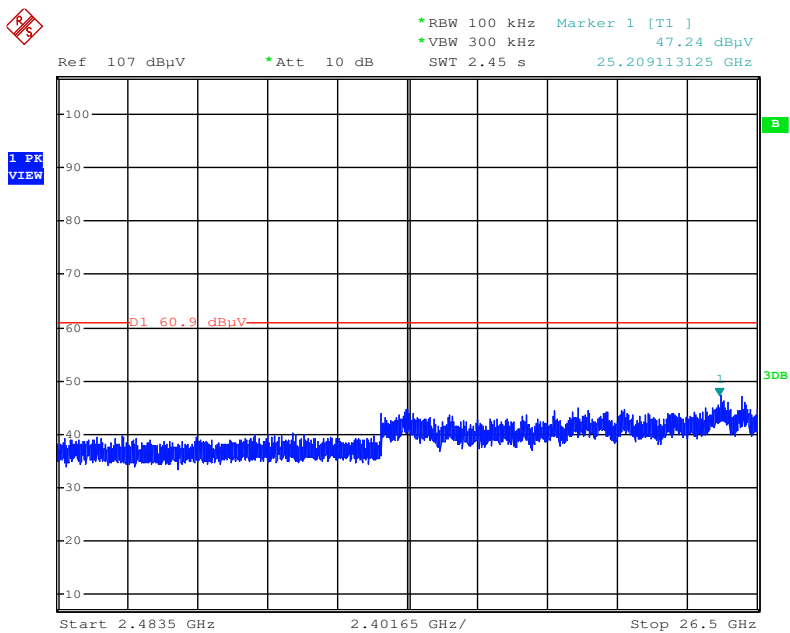
Date: 13.AUG.2016 21:22:49

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



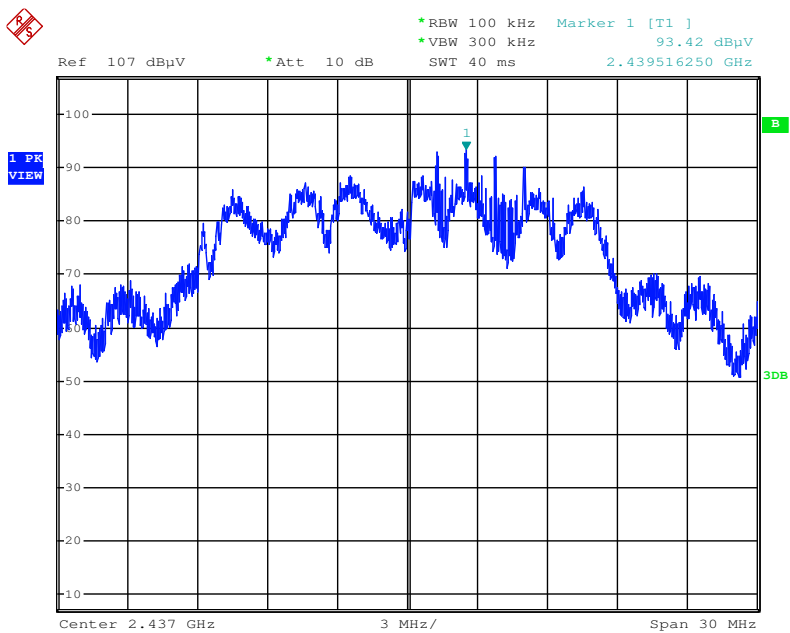
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Plot on Configuration IEEE 802.11g / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



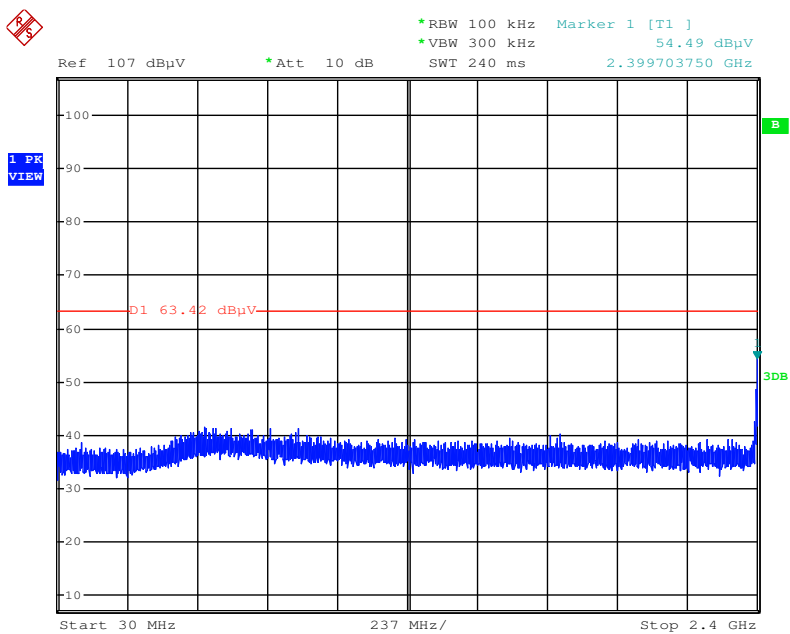
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Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



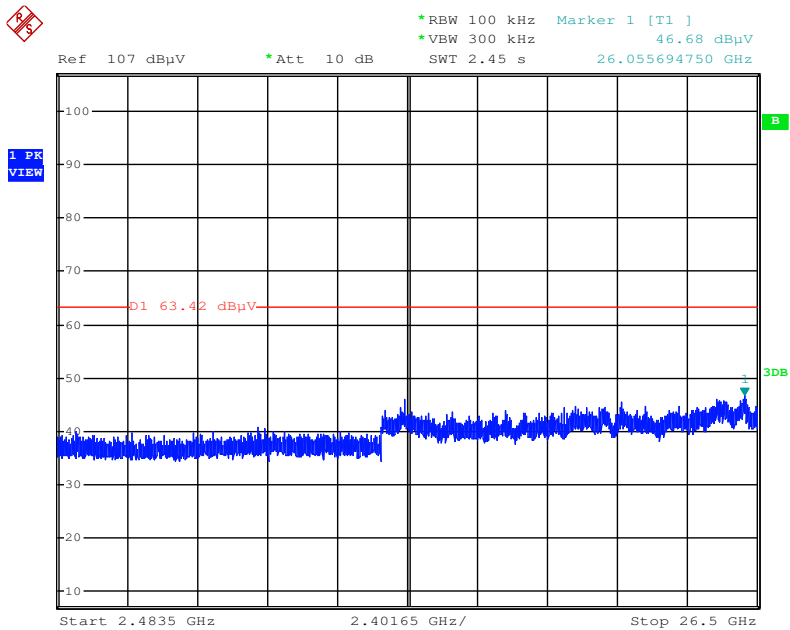
Date: 13.AUG.2016 21:26:02

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



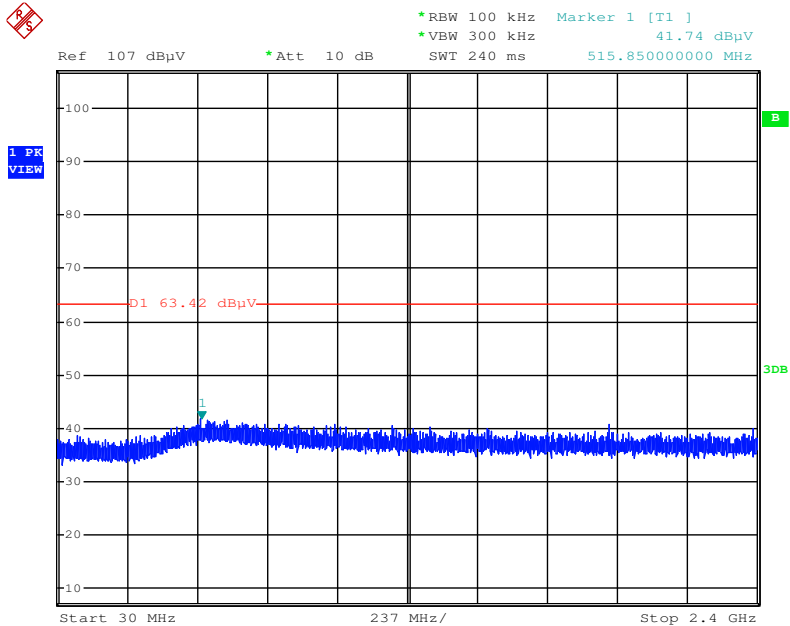
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Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



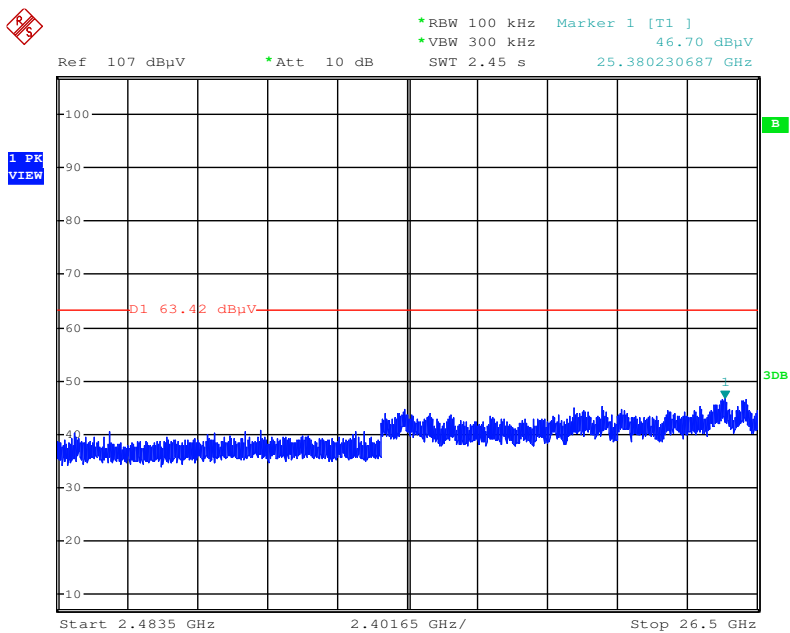
Date: 13.AUG.2016 21:28:02

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



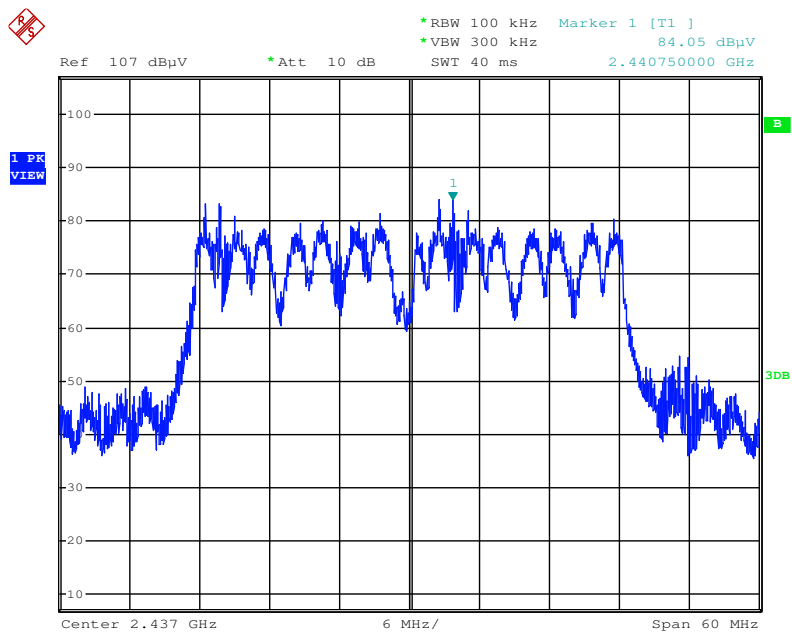
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Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



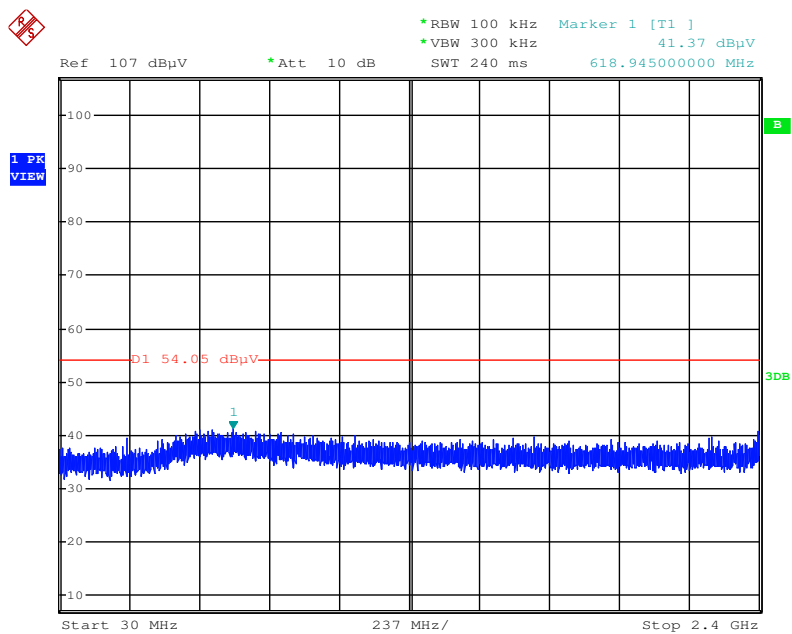
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Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



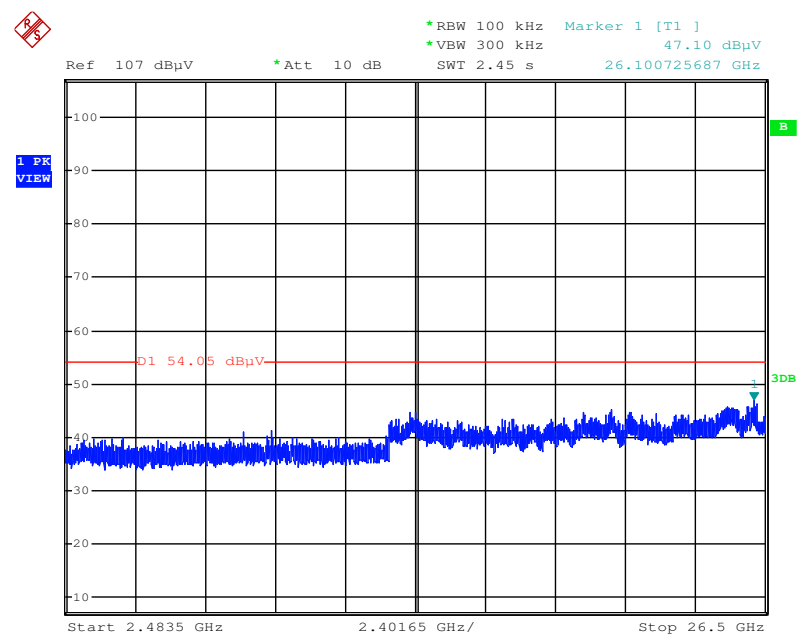
Date: 13.AUG.2016 21:31:13

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



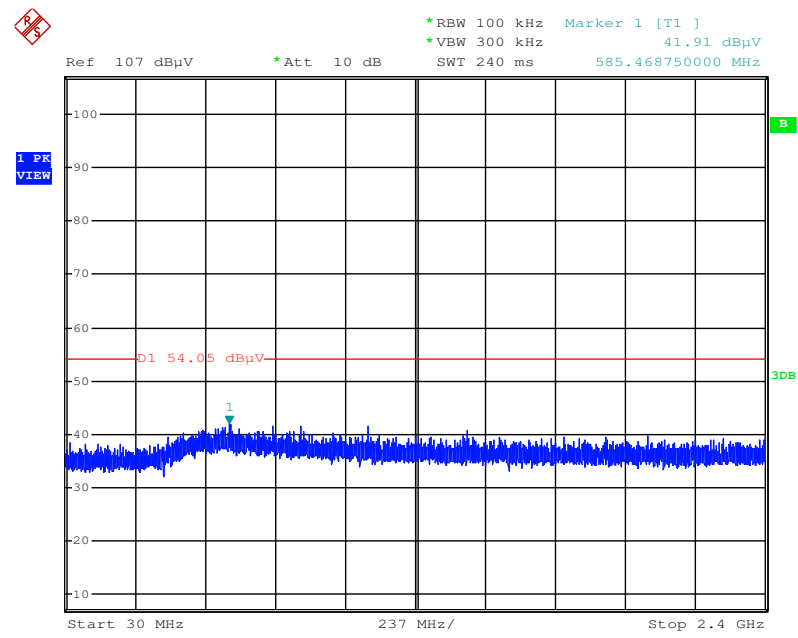
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Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2483.5MHz~26500MHz (down 30dBc)



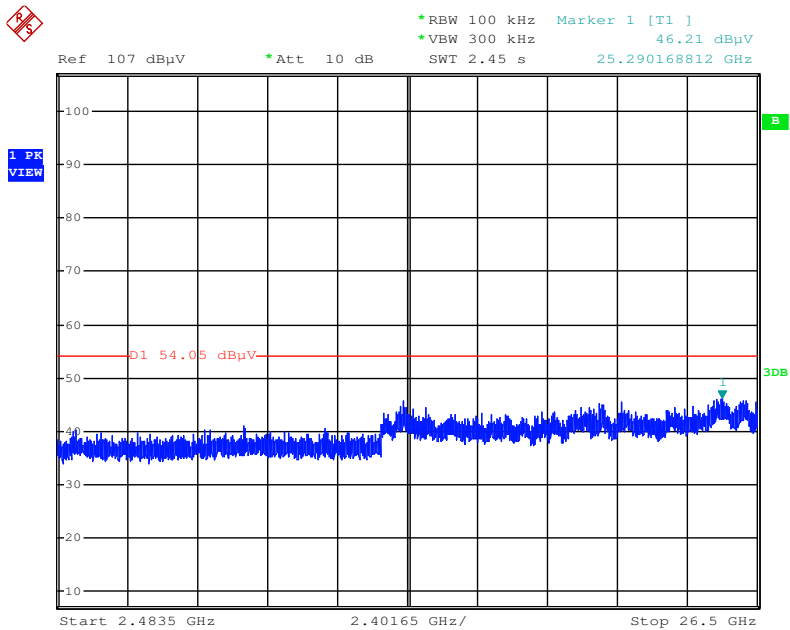
Date: 13.AUG.2016 21:32:51

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



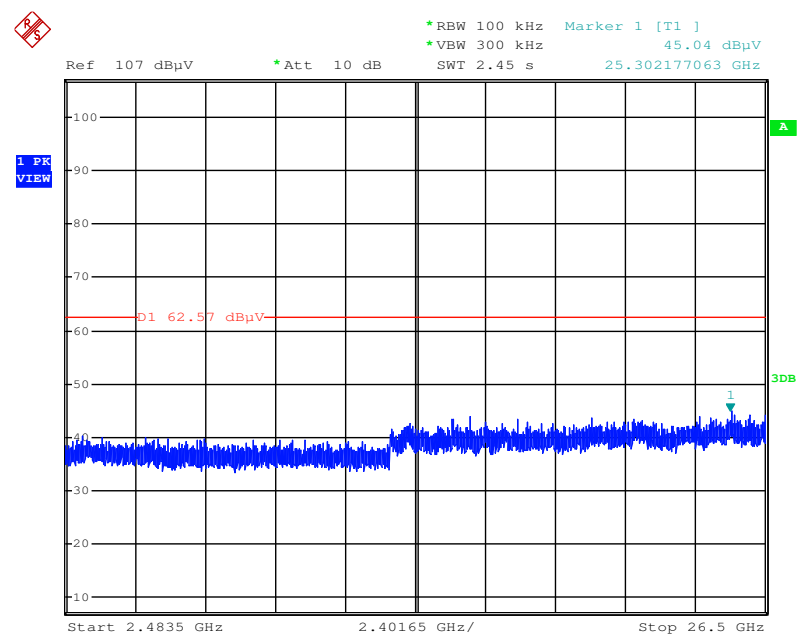
Date: 13.AUG.2016 21:33:42

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2483.5MHz~26500MHz (down 30dBc)



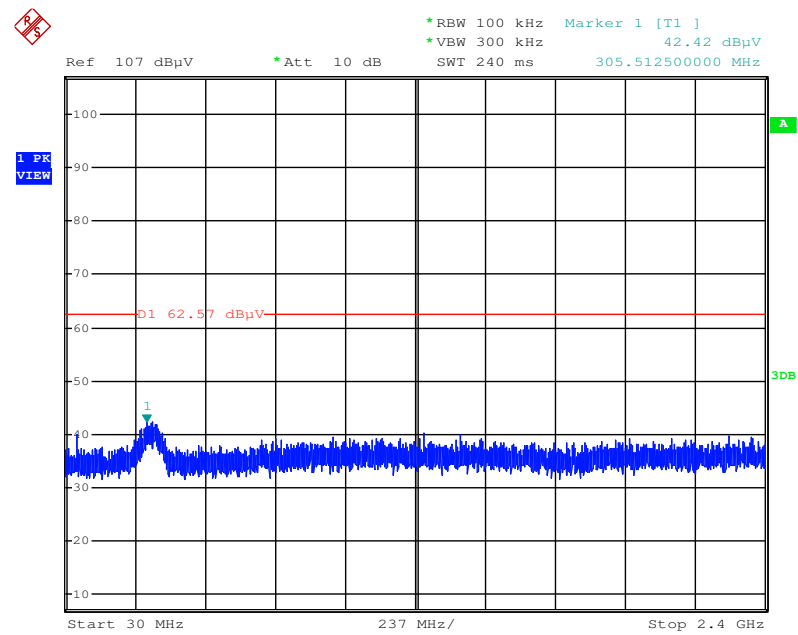
Date: 13.AUG.2016 21:34:16

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



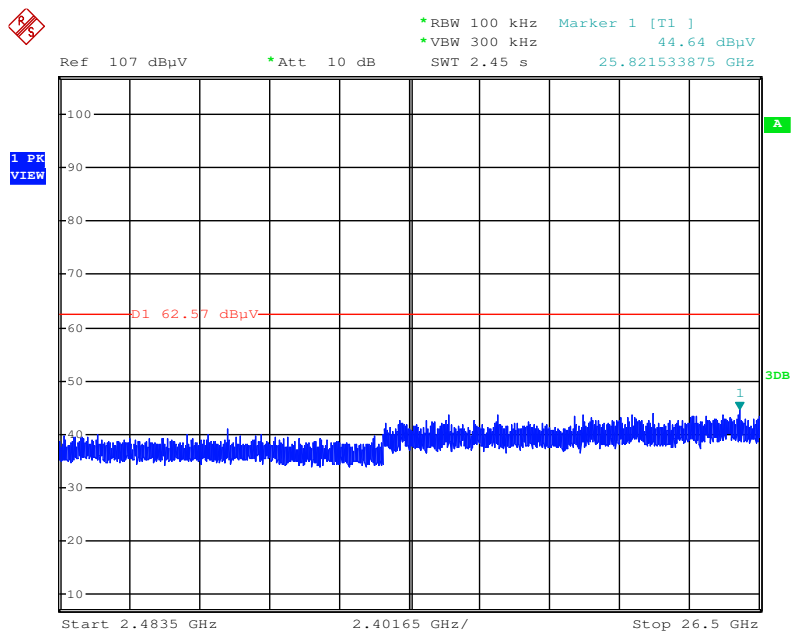
Date: 26.AUG.2016 01:54:25

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



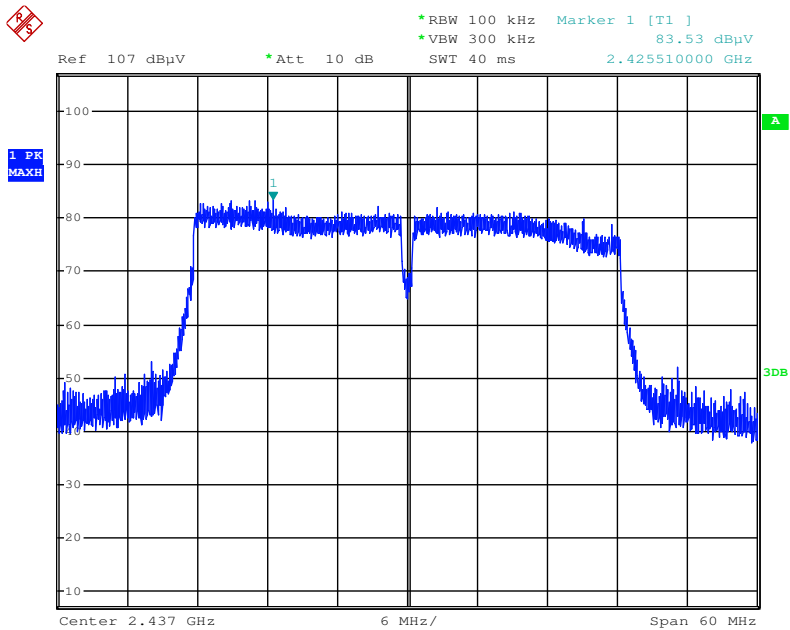
Date: 26.AUG.2016 01:55:50

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



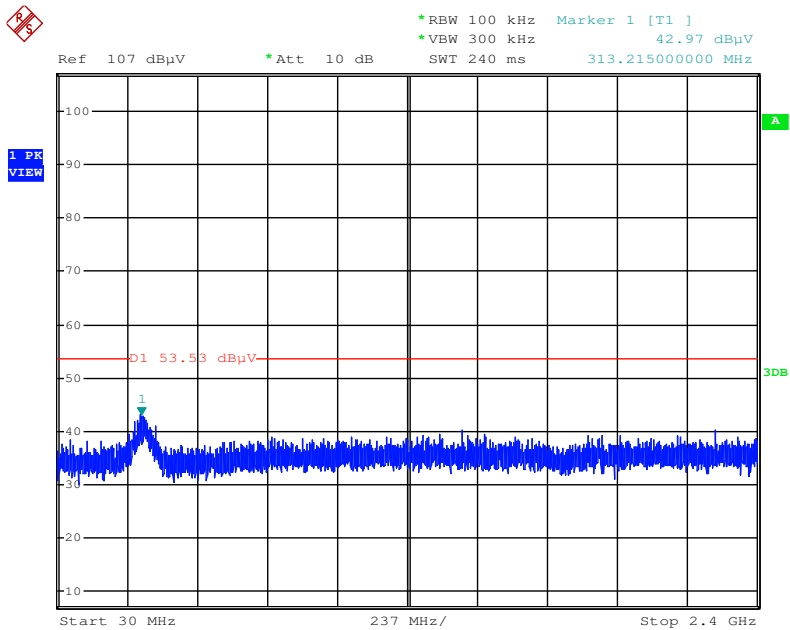
Date: 26.AUG.2016 01:55:28

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



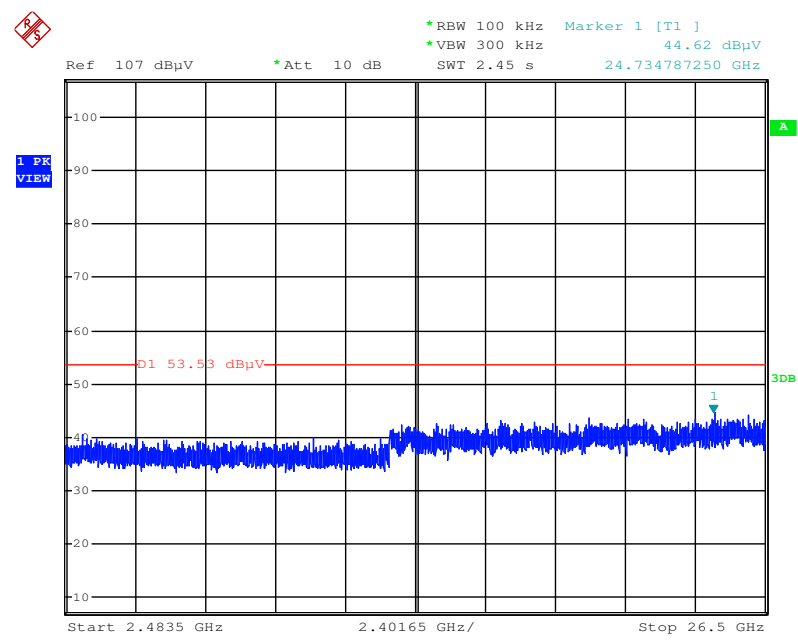
Date: 26.AUG.2016 01:58:06

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



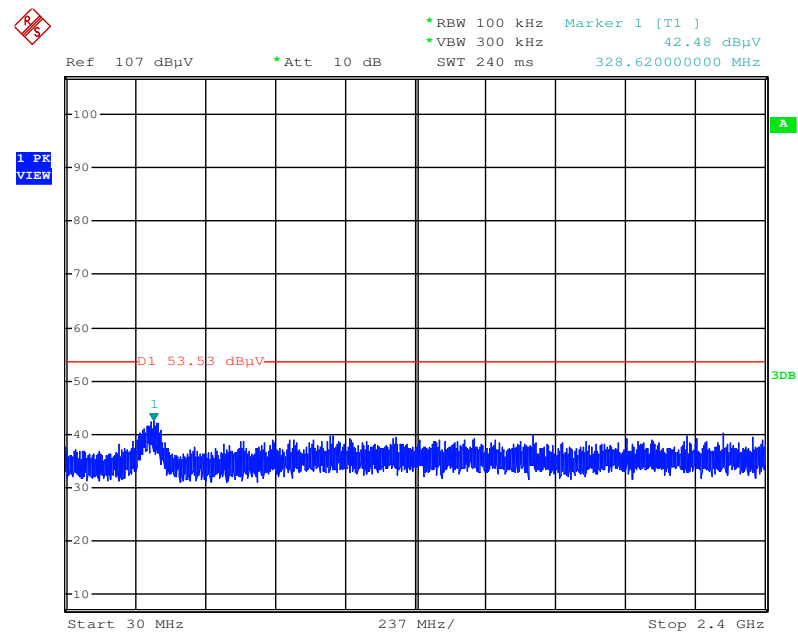
Date: 26.AUG.2016 02:02:22

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2483.5MHz~26500MHz (down 30dBc)



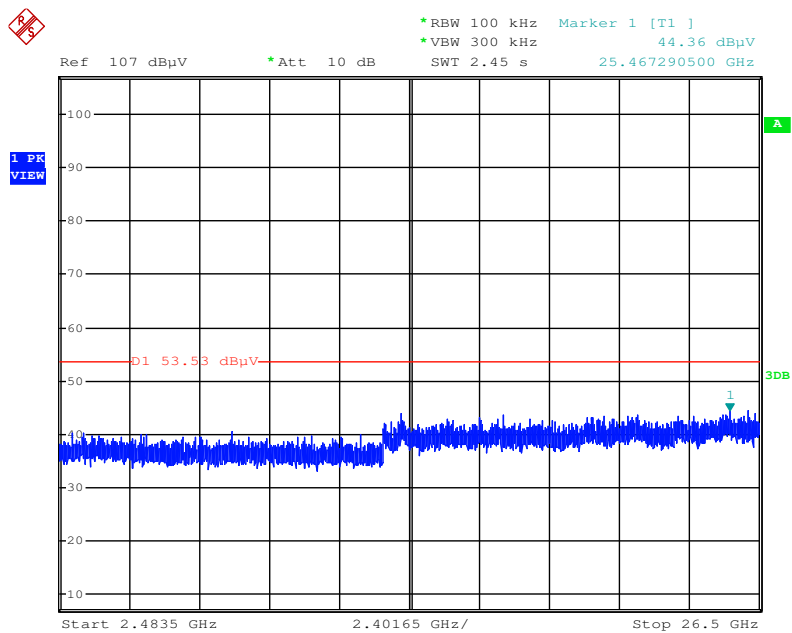
Date: 26.AUG.2016 01:59:38

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



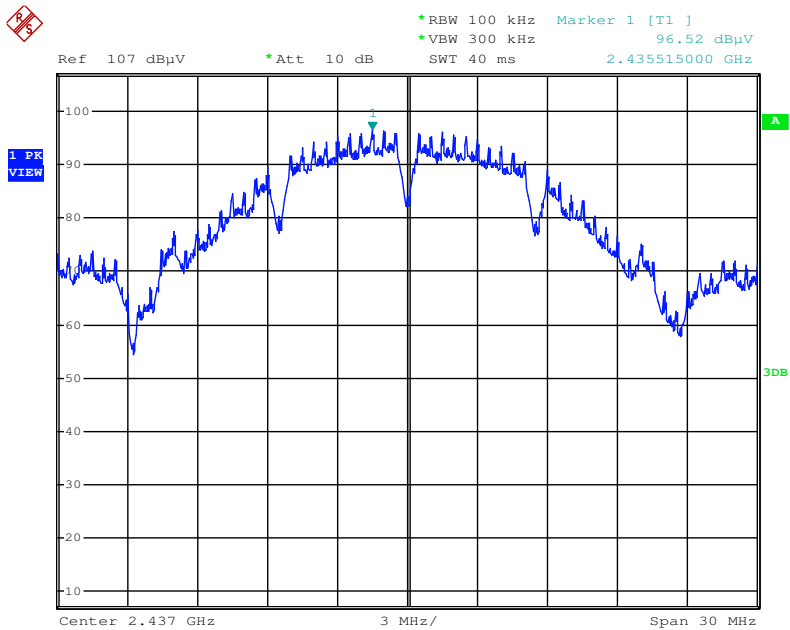
Date: 26.AUG.2016 02:00:42

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2483.5MHz~26500MHz (down 30dBc)



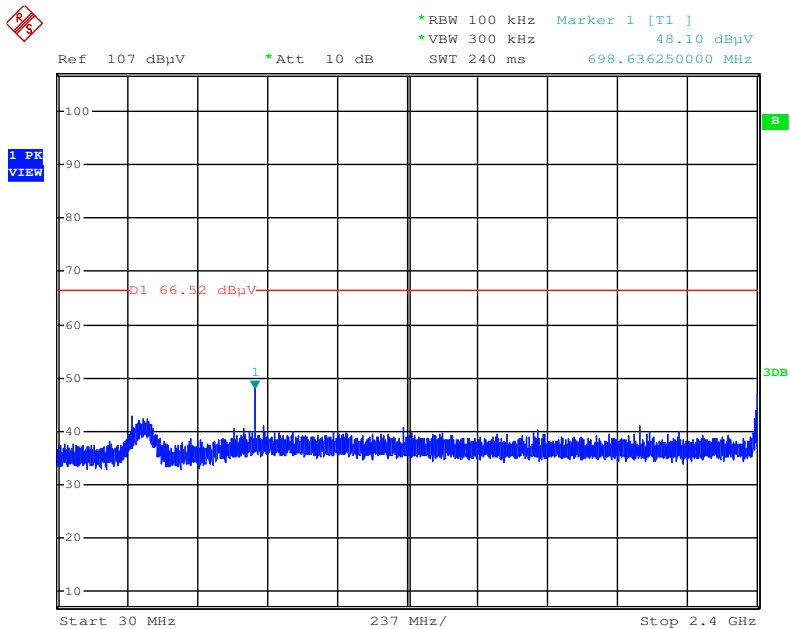
Date: 26.AUG.2016 02:00:24

For Antenna 2
<For Non-Beamforming Mode>
Plot on Configuration IEEE 802.11b / Reference Level



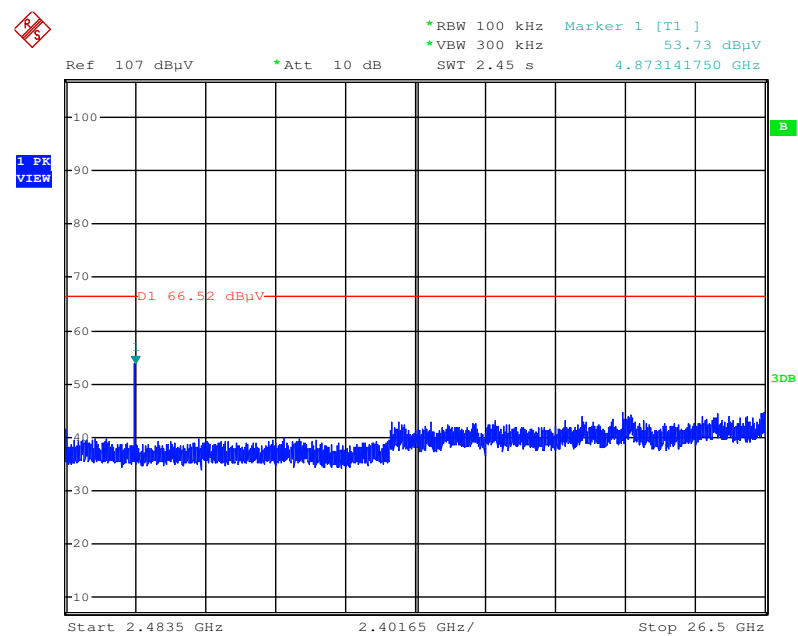
Date: 17.AUG.2016 03:28:46

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



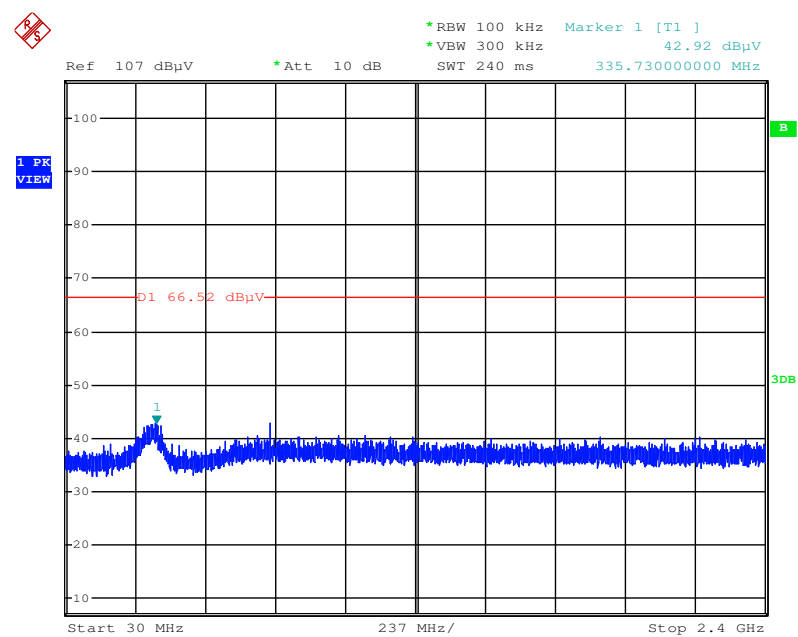
Date: 17.AUG.2016 03:31:03

Plot on Configuration IEEE 802.11b / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



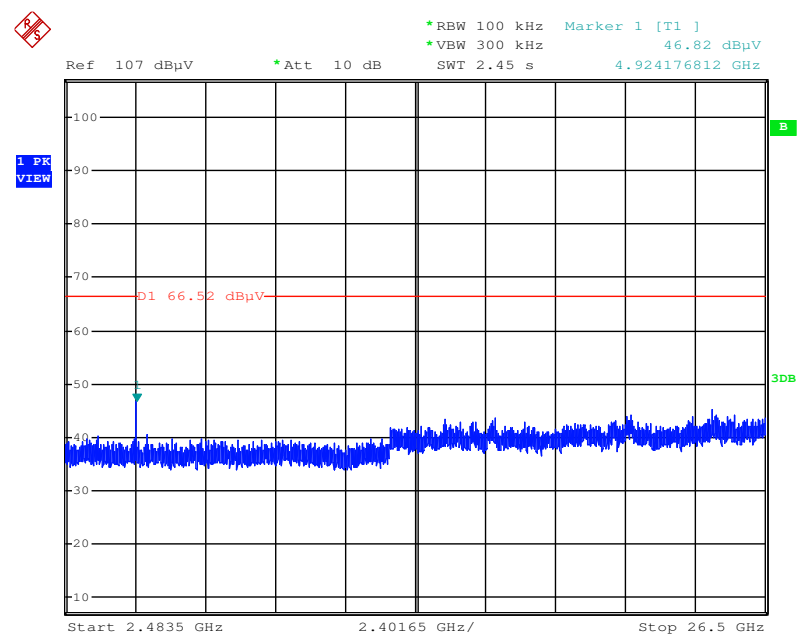
Date: 17.AUG.2016 03:32:24

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



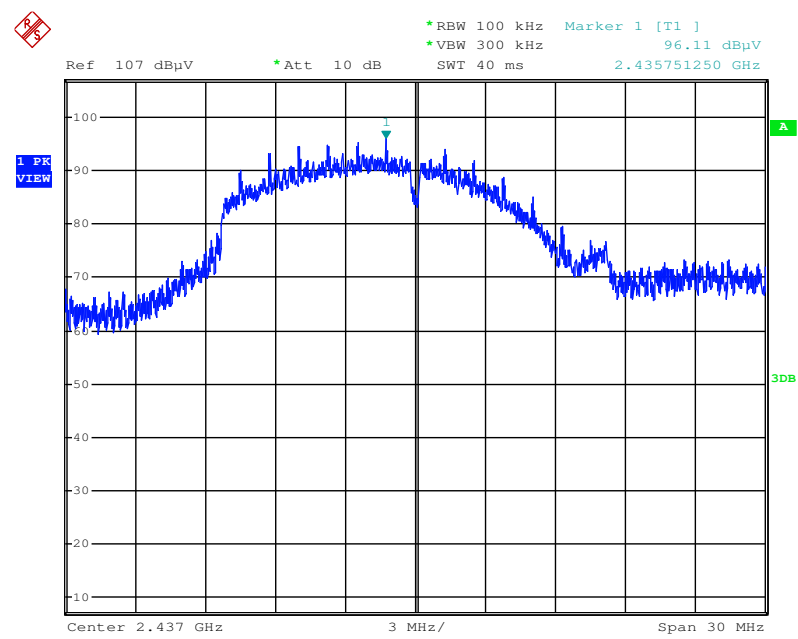
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Plot on Configuration IEEE 802.11b / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



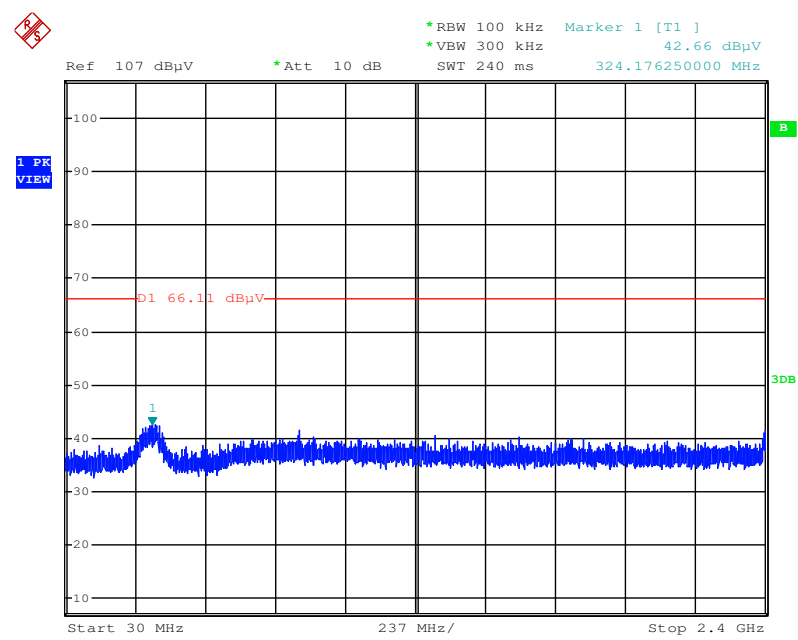
Date: 17.AUG.2016 03:33:13

Plot on Configuration IEEE 802.11g / Reference Level



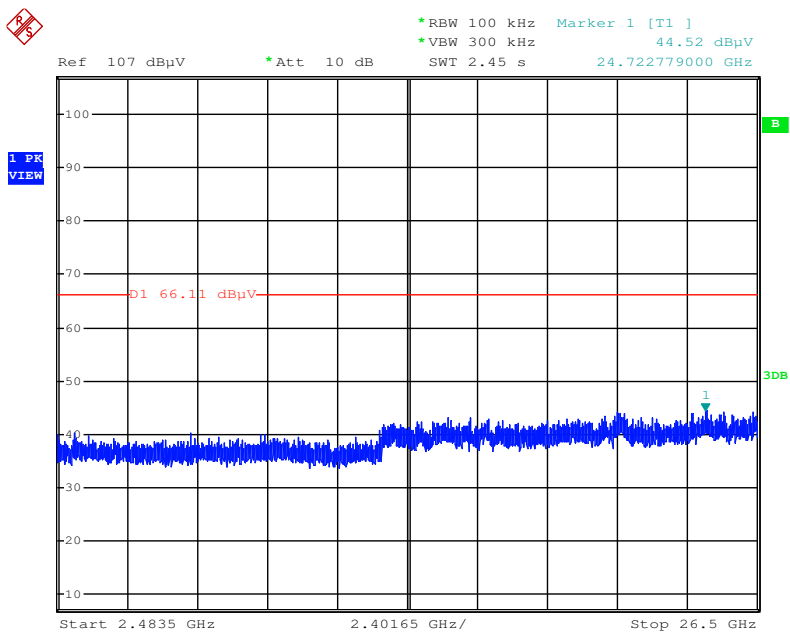
Date: 17.AUG.2016 03:34:46

Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



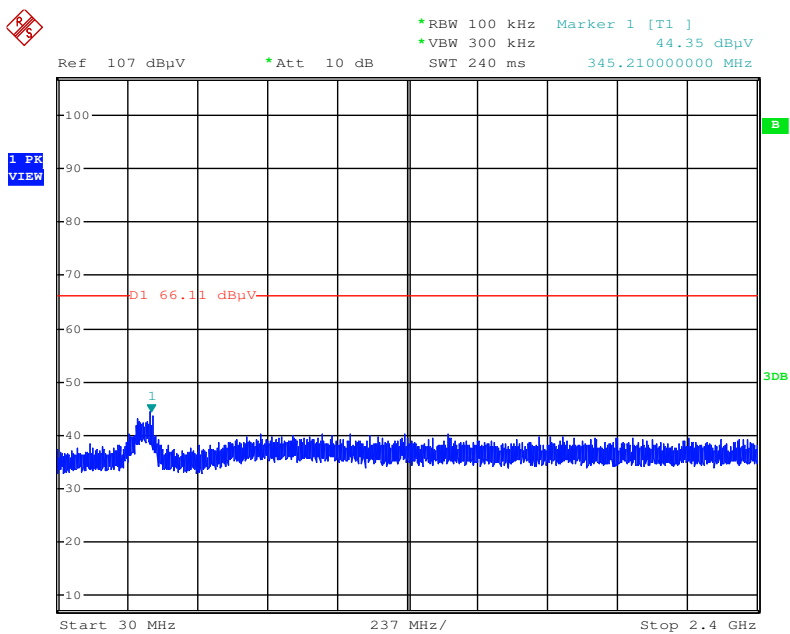
Date: 17.AUG.2016 03:35:56

Plot on Configuration IEEE 802.11g / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



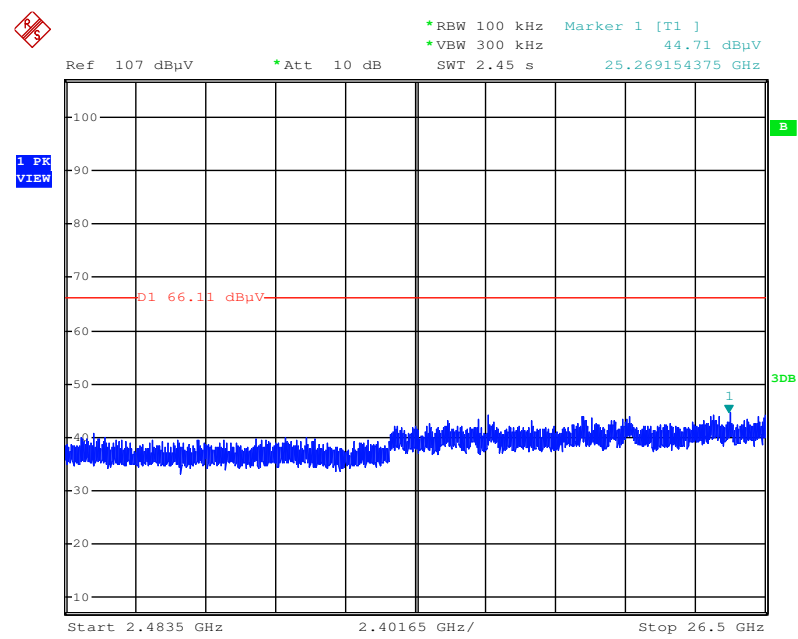
Date: 17.AUG.2016 03:36:37

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



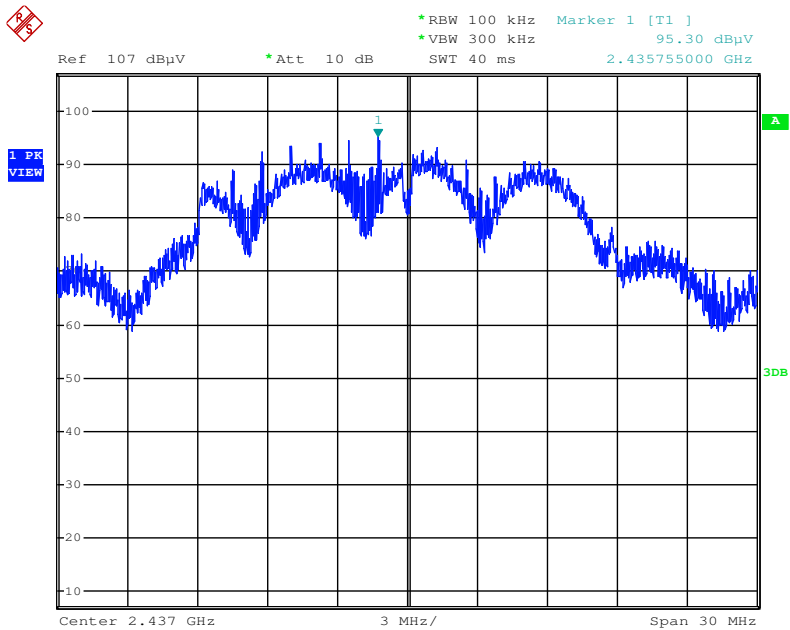
Date: 17.AUG.2016 03:37:56

Plot on Configuration IEEE 802.11g / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



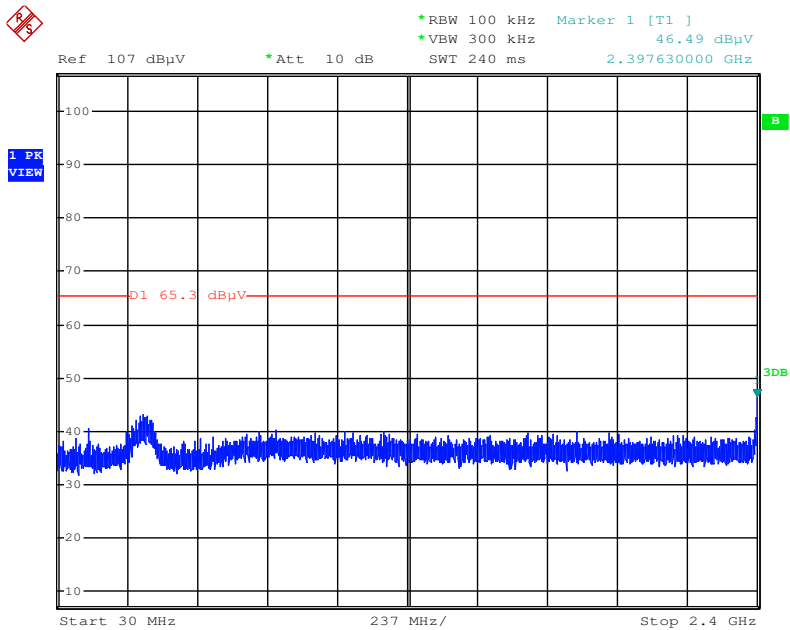
Date: 17.AUG.2016 03:37:23

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



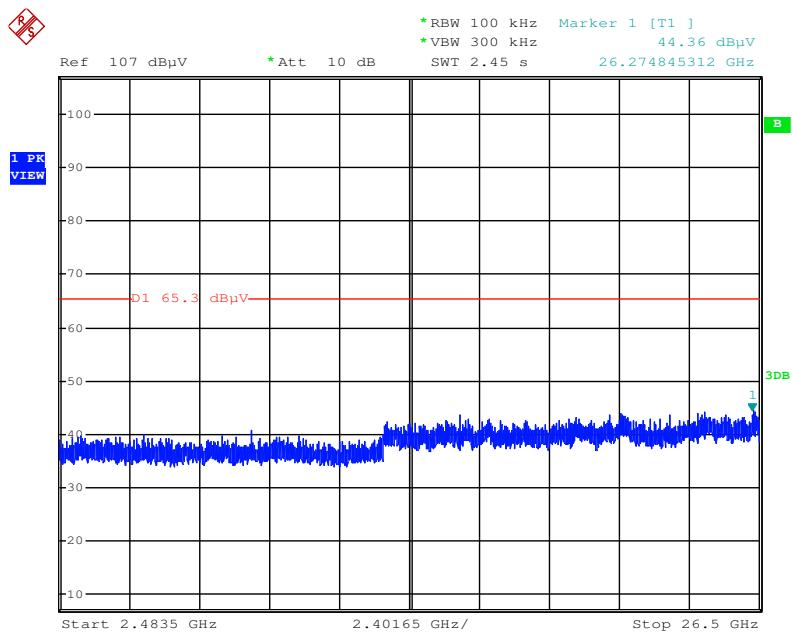
Date: 17.AUG.2016 03:39:18

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



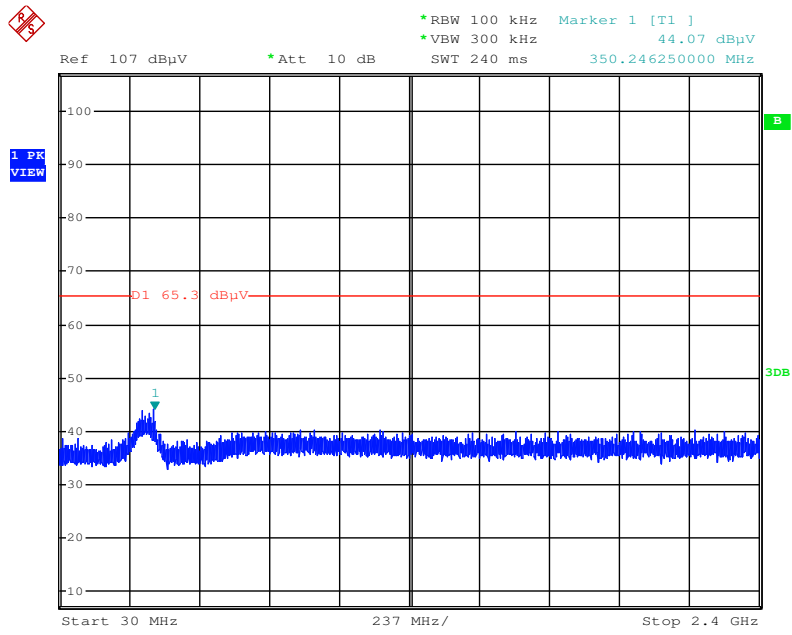
Date: 17.AUG.2016 03:40:34

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



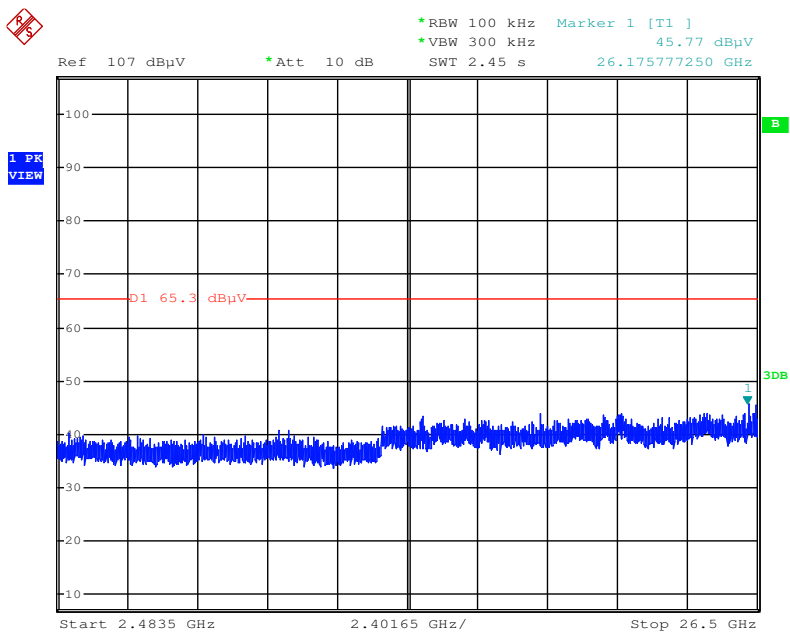
Date: 17.AUG.2016 03:41:07

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



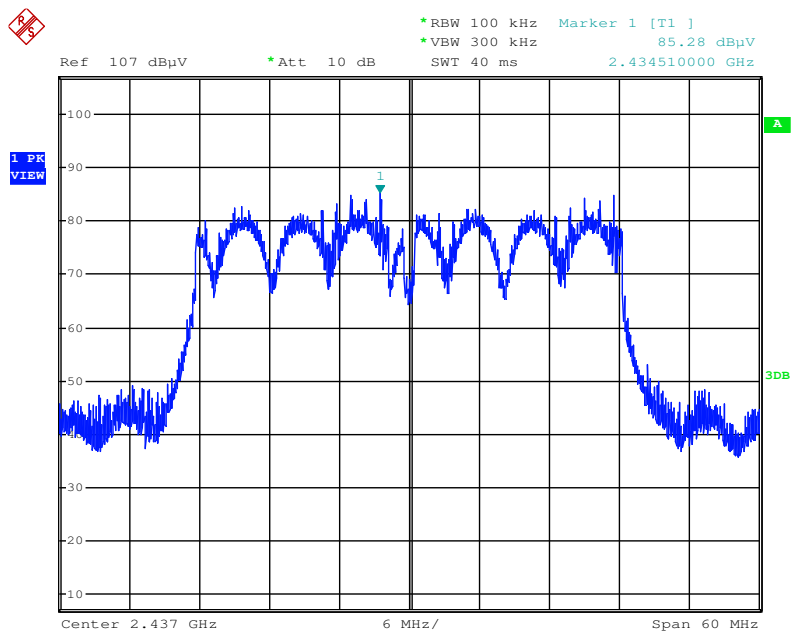
Date: 17.AUG.2016 03:42:39

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



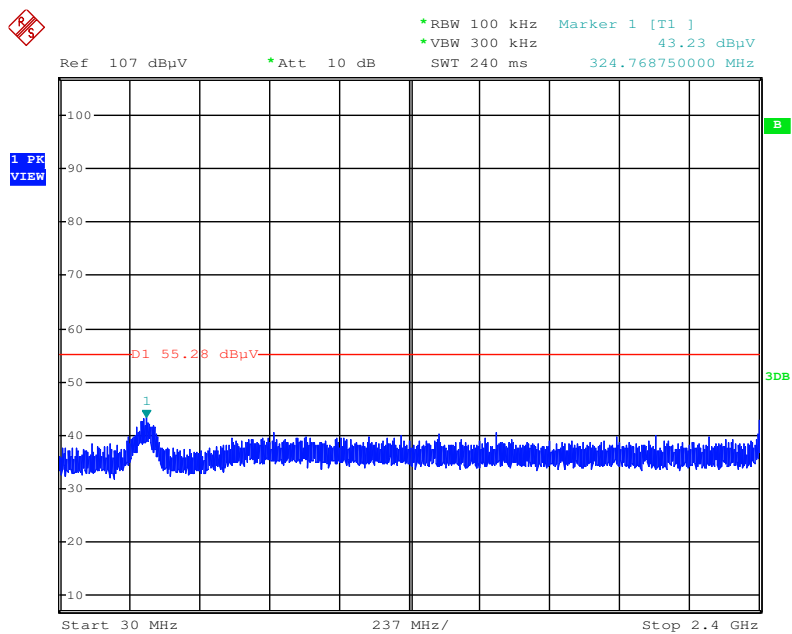
Date: 17.AUG.2016 03:42:00

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



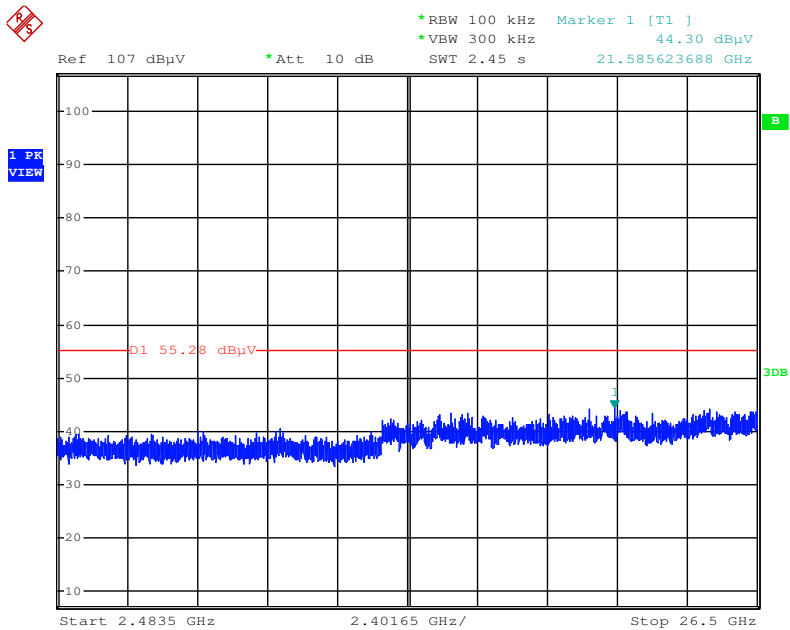
Date: 17.AUG.2016 03:43:57

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



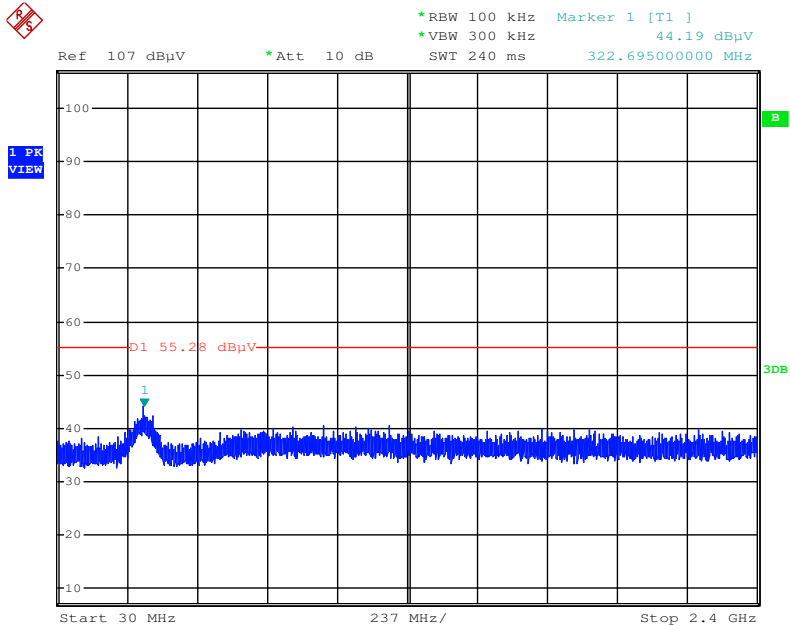
Date: 17.AUG.2016 03:45:34

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2483.5MHz~26500MHz (down 30dBc)



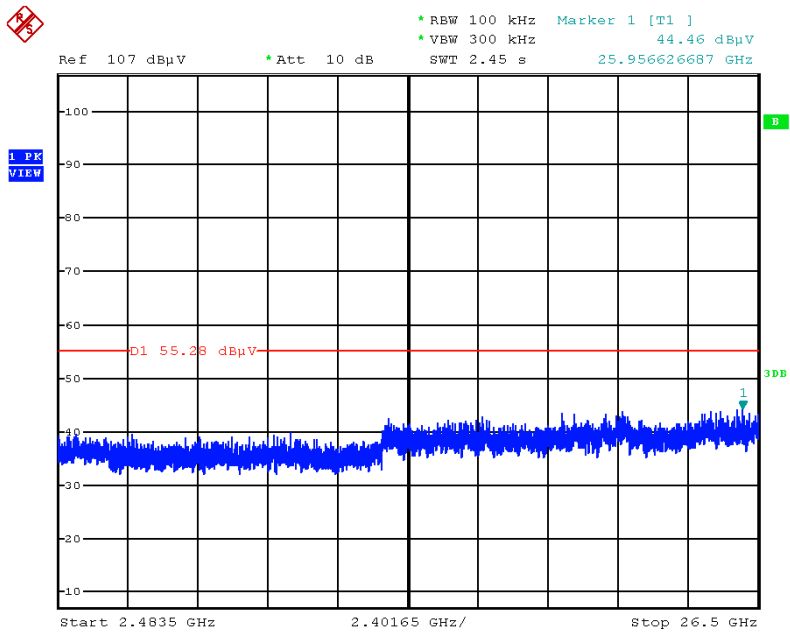
Date: 17.AUG.2016 03:47:11

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 17.AUG.2016 03:48:32

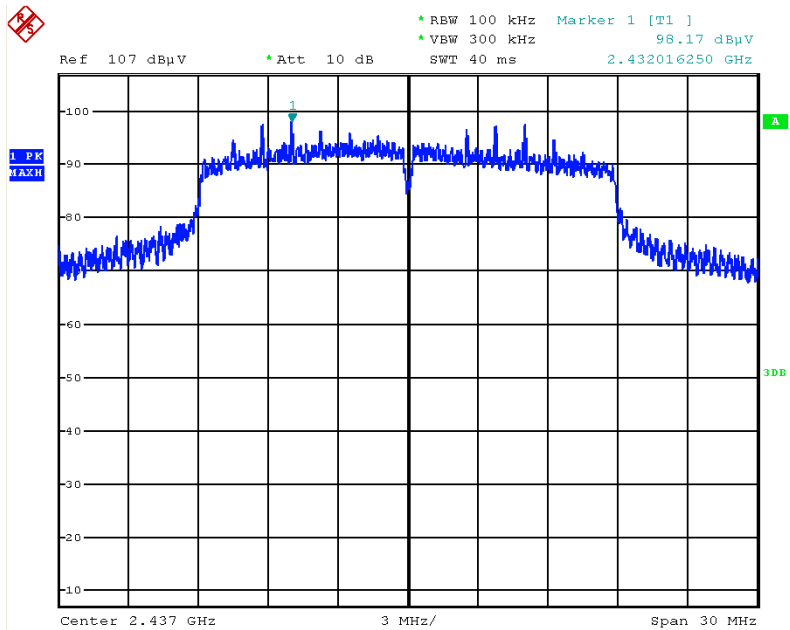
Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2483.5MHz~26500MHz (down 30dBc)



Date: 17.AUG.2016 03:48:03

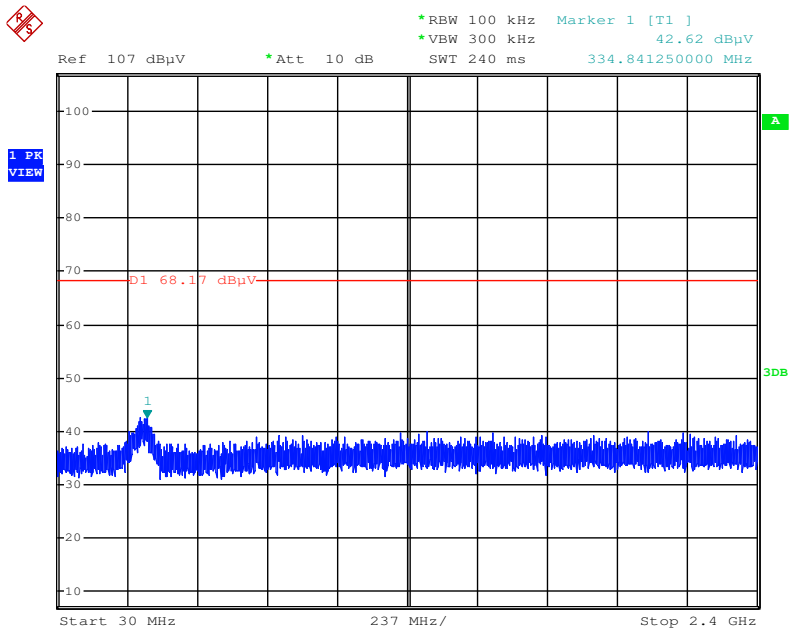
<For Beamforming Mode>

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



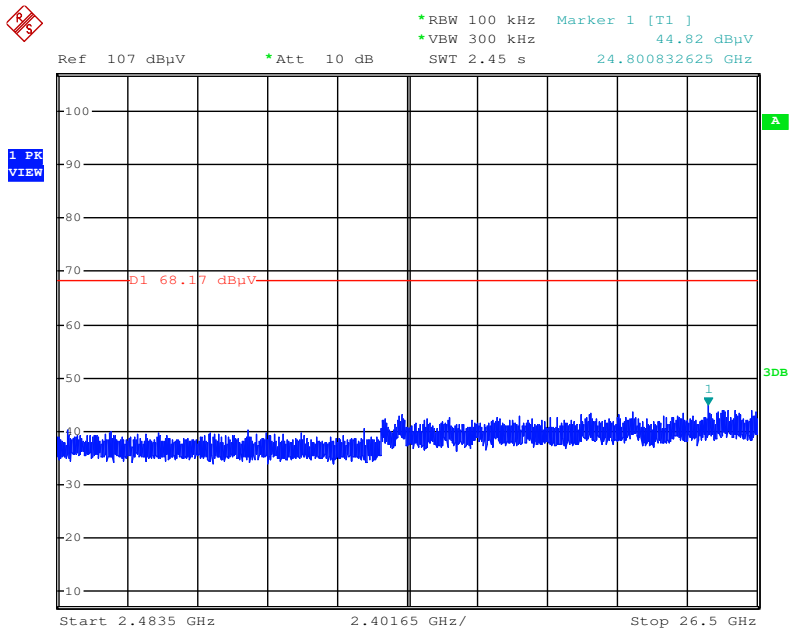
Date: 26.AUG.2016 00:05:07

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



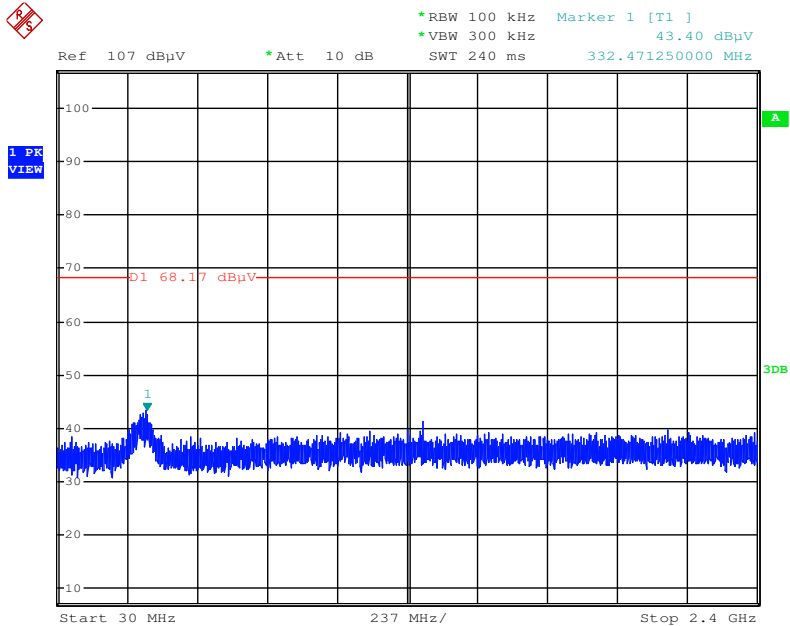
Date: 26.AUG.2016 00:07:14

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



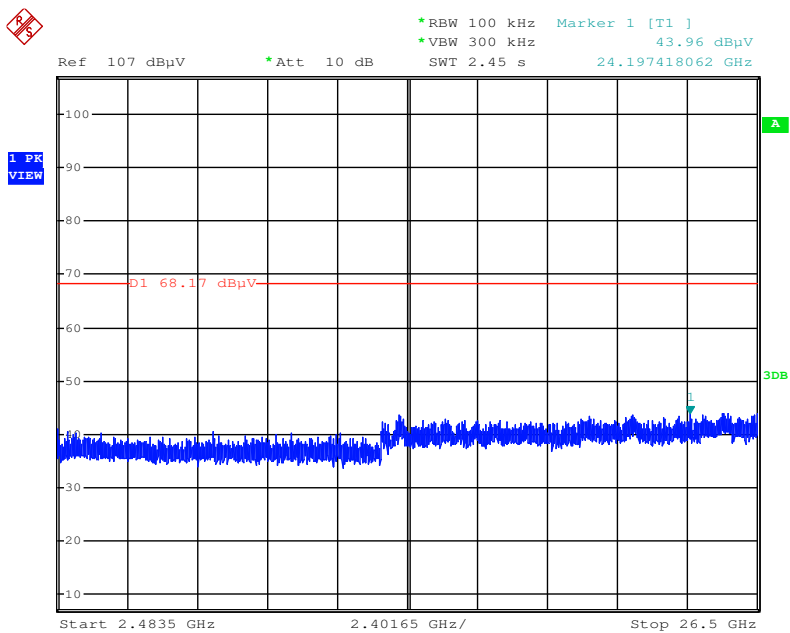
Date: 26.AUG.2016 00:08:41

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



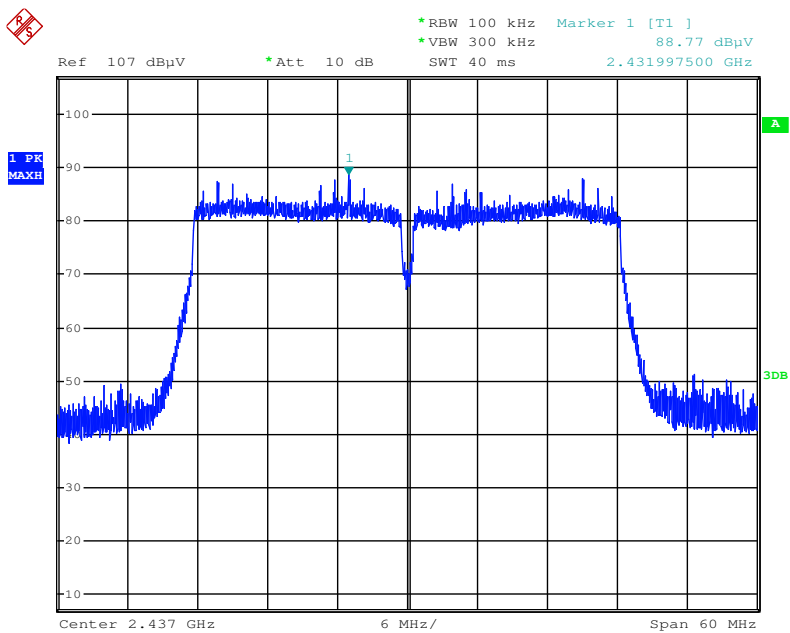
Date: 26.AUG.2016 00:10:43

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



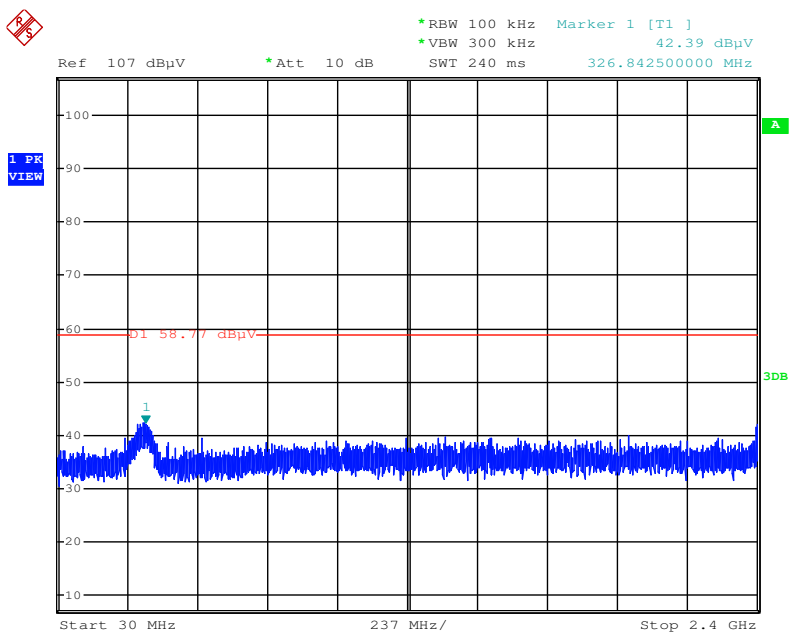
Date: 26.AUG.2016 00:10:23

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



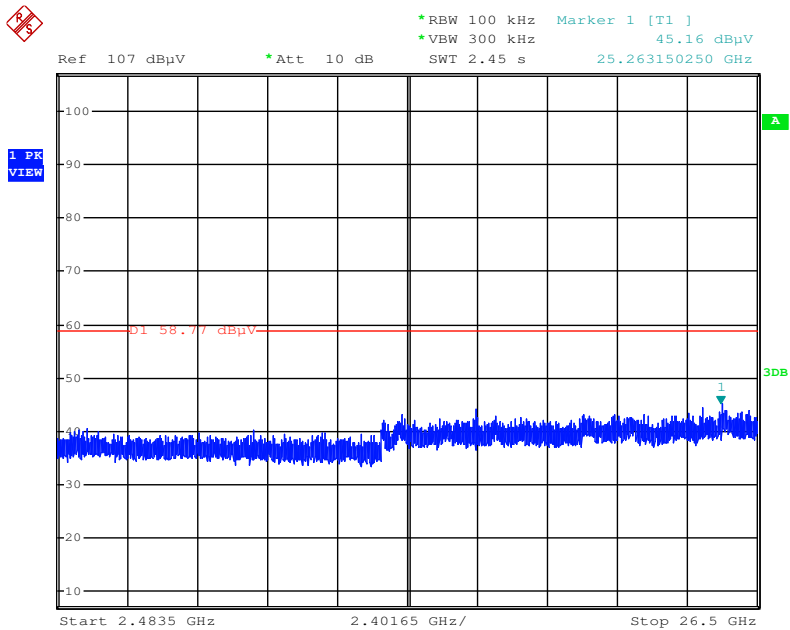
Date: 26.AUG.2016 00:12:03

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



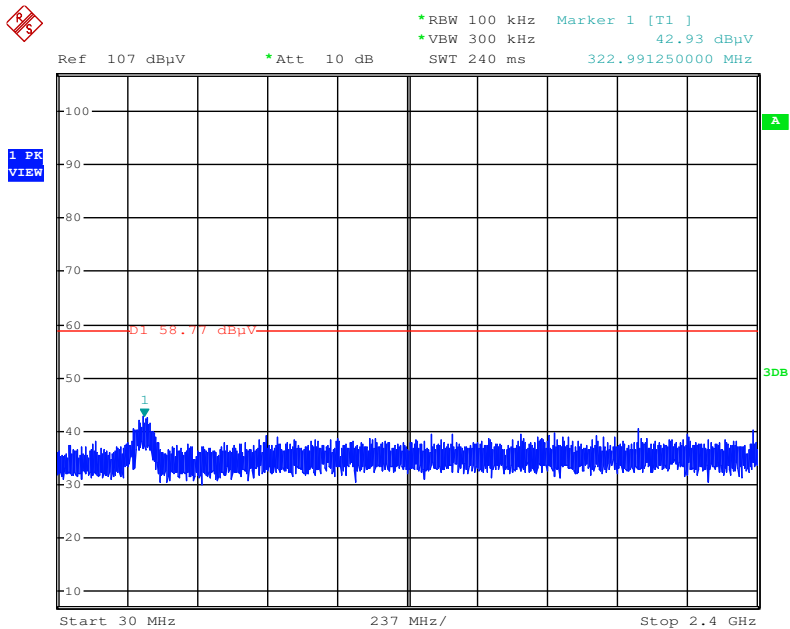
Date: 26.AUG.2016 00:13:23

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2483.5MHz~26500MHz (down 30dBc)



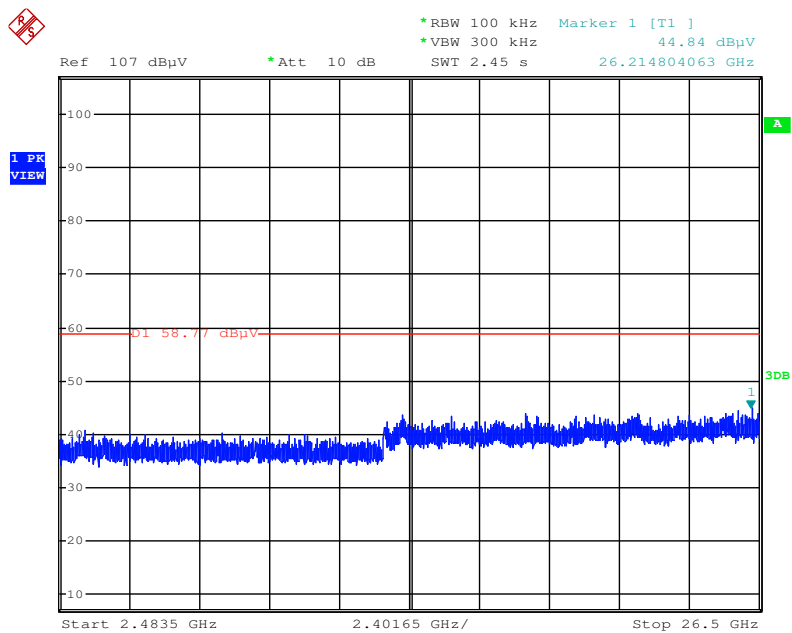
Date: 26.AUG.2016 00:13:47

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



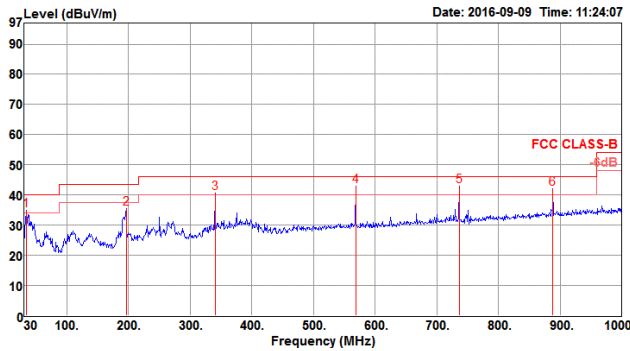
Date: 26.AUG.2016 00:15:26

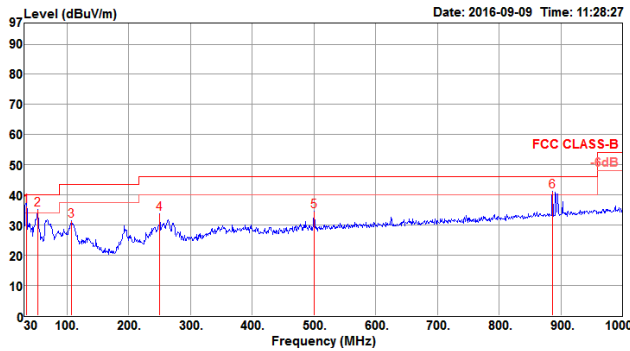
Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2483.5MHz~26500MHz (down 30dBc)



Date: 26.AUG.2016 00:14:48



RSE below 1GHz Result																																																																																																												
Operating Mode	4				Polarization				Horizontal																																																																																																			
Operating Function	CTX																																																																																																											
Level (dBuV/m) Date: 2016-09-09 Time: 11:24:07 																																																																																																												
<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>33.88</td><td>34.80</td><td>40.00</td><td>-5.20</td><td>38.77</td><td>1.24</td><td>23.27</td><td>28.48</td><td>100</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>195.87</td><td>35.36</td><td>43.50</td><td>-8.14</td><td>45.56</td><td>1.86</td><td>15.72</td><td>27.78</td><td>100</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>340.40</td><td>40.74</td><td>46.00</td><td>-5.26</td><td>45.63</td><td>2.23</td><td>20.76</td><td>27.88</td><td>100</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>568.35</td><td>42.97</td><td>46.00</td><td>-3.01</td><td>44.21</td><td>2.75</td><td>24.81</td><td>28.80</td><td>100</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>5</td><td>736.16</td><td>42.86</td><td>46.00</td><td>-3.14</td><td>42.30</td><td>3.20</td><td>25.90</td><td>28.54</td><td>100</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>6</td><td>888.45</td><td>41.99</td><td>46.00</td><td>-4.01</td><td>39.11</td><td>3.43</td><td>27.50</td><td>28.05</td><td>100</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table>														Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		1	33.88	34.80	40.00	-5.20	38.77	1.24	23.27	28.48	100	0 Peak	HORIZONTAL	2	195.87	35.36	43.50	-8.14	45.56	1.86	15.72	27.78	100	0 Peak	HORIZONTAL	3	340.40	40.74	46.00	-5.26	45.63	2.23	20.76	27.88	100	0 Peak	HORIZONTAL	4	568.35	42.97	46.00	-3.01	44.21	2.75	24.81	28.80	100	0 Peak	HORIZONTAL	5	736.16	42.86	46.00	-3.14	42.30	3.20	25.90	28.54	100	0 Peak	HORIZONTAL	6	888.45	41.99	46.00	-4.01	39.11	3.43	27.50	28.05	100	0 Peak	HORIZONTAL
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																																																	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg																																																																																																		
1	33.88	34.80	40.00	-5.20	38.77	1.24	23.27	28.48	100	0 Peak	HORIZONTAL																																																																																																	
2	195.87	35.36	43.50	-8.14	45.56	1.86	15.72	27.78	100	0 Peak	HORIZONTAL																																																																																																	
3	340.40	40.74	46.00	-5.26	45.63	2.23	20.76	27.88	100	0 Peak	HORIZONTAL																																																																																																	
4	568.35	42.97	46.00	-3.01	44.21	2.75	24.81	28.80	100	0 Peak	HORIZONTAL																																																																																																	
5	736.16	42.86	46.00	-3.14	42.30	3.20	25.90	28.54	100	0 Peak	HORIZONTAL																																																																																																	
6	888.45	41.99	46.00	-4.01	39.11	3.43	27.50	28.05	100	0 Peak	HORIZONTAL																																																																																																	
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)																																																																																																												

RSE below 1GHz Result												
Operating Mode	4				Power Phase				Vertical			
Operating Function	CTX											
Level (dBuV/m) Date: 2016-09-09 Time: 11:28:27 												
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	33.88	36.44	40.00	-3.56	40.41	1.24	23.27	28.48	100	95 QP	VERTICAL	
2	52.31	35.22	40.00	-4.78	47.93	1.34	14.40	28.45	200	0 Peak	VERTICAL	
3	107.60	31.59	43.50	-11.91	40.48	1.60	17.73	28.22	200	0 Peak	VERTICAL	
4	250.19	33.79	46.00	-12.21	40.56	1.97	18.90	27.64	200	0 Peak	VERTICAL	
5	500.45	34.76	46.00	-11.24	37.30	2.58	23.64	28.76	200	0 Peak	VERTICAL	
6	886.51	41.30	46.00	-4.70	38.42	3.43	27.50	28.05	200	0 Peak	VERTICAL	
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)												



Radiated Emissions (1GHz~10th Harmonic)

For Antenna 1

<For Non-Beamforming Mode>

Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.87	46.87	74.00	-27.13	41.85	5.67	31.09	31.74	241	239	Peak	HORIZONTAL
2	4824.05	35.89	54.00	-18.11	30.87	5.67	31.09	31.74	241	239	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4824.07	38.37	54.00	-15.63	33.35	5.67	31.09	31.74	172	183	Average	VERTICAL
2	4824.13	48.42	74.00	-25.58	43.40	5.67	31.09	31.74	172	183	Peak	VERTICAL

Configurations	IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.80	48.15	74.00	-25.85	43.00	5.72	31.15	31.72	172	175	Peak	HORIZONTAL
2	4874.01	40.22	54.00	-13.78	35.07	5.72	31.15	31.72	172	175	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4874.02	43.85	54.00	-10.15	38.70	5.72	31.15	31.72	148	186	Average	VERTICAL
2	4874.14	49.69	74.00	-24.31	44.54	5.72	31.15	31.72	148	186	Peak	VERTICAL

Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.98	33.93	54.00	-20.07	28.65	5.76	31.22	31.70	133	53	Average	HORIZONTAL
2	4924.11	46.21	74.00	-27.79	40.93	5.76	31.22	31.70	133	53	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.96	36.30	54.00	-17.70	31.02	5.76	31.22	31.70	151	174	Average	VERTICAL
2	4924.16	46.71	74.00	-27.29	41.43	5.76	31.22	31.70	151	174	Peak	VERTICAL

Configurations	IEEE 802.11g CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.76	45.38	74.00	-28.62	40.36	5.67	31.09	31.74	214	179	Peak	HORIZONTAL
2	4826.37	32.57	54.00	-21.43	27.52	5.68	31.11	31.74	214	179	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4822.38	32.63	54.00	-21.37	27.61	5.67	31.09	31.74	148	269	Average	VERTICAL
2	4824.04	45.33	74.00	-28.67	40.31	5.67	31.09	31.74	148	269	Peak	VERTICAL

Configurations	IEEE 802.11g CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4873.98	32.82	54.00	-21.18	27.67	5.72	31.15	31.72	169	66 Average	HORIZONTAL
2	4874.60	45.41	74.00	-28.59	40.26	5.72	31.15	31.72	169	66 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4871.65	46.24	74.00	-27.76	41.09	5.72	31.15	31.72	190	134 Peak	VERTICAL
2	4875.06	32.92	54.00	-21.08	27.77	5.72	31.15	31.72	190	134 Average	VERTICAL

Configurations	IEEE 802.11g CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.71	45.74	74.00	-28.26	40.46	5.76	31.22	31.70	187	197	Peak	HORIZONTAL
2	4925.90	32.88	54.00	-21.12	27.59	5.76	31.22	31.69	187	197	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4925.20	46.59	74.00	-27.41	41.30	5.76	31.22	31.69	203	248	Peak	VERTICAL
2	4925.73	32.85	54.00	-21.15	27.56	5.76	31.22	31.69	203	248	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.88	45.70	74.00	-28.30	40.68	5.67	31.09	31.74	236	210	Peak	HORIZONTAL
2	4825.55	32.63	54.00	-21.37	27.58	5.68	31.11	31.74	236	210	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.13	45.40	74.00	-28.60	40.38	5.67	31.09	31.74	173	288	Peak	VERTICAL
2	4823.28	32.89	54.00	-21.11	27.87	5.67	31.09	31.74	173	288	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4875.08	32.84	54.00	-21.16	27.69	5.72	31.15	31.72	177	288	Average	HORIZONTAL
2	4875.64	45.71	74.00	-28.29	40.56	5.72	31.15	31.72	177	288	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.17	45.66	74.00	-28.34	40.51	5.72	31.15	31.72	186	212	Peak	VERTICAL
2	4873.99	33.32	54.00	-20.68	28.17	5.72	31.15	31.72	186	212	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.93	32.95	54.00	-21.05	27.67	5.76	31.22	31.70	188	53	Average	HORIZONTAL
2	4924.84	45.93	74.00	-28.07	40.65	5.76	31.22	31.70	188	53	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4924.27	46.29	74.00	-27.71	41.01	5.76	31.22	31.70	162	175	Peak	VERTICAL
2	4926.16	33.01	54.00	-20.99	27.72	5.76	31.22	31.69	162	175	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4841.56	32.79	54.00	-21.21	27.72	5.69	31.12	31.74	176	169	Average	HORIZONTAL
2	4843.42	45.68	74.00	-28.32	40.61	5.69	31.12	31.74	176	169	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4841.65	32.87	54.00	-21.13	27.80	5.69	31.12	31.74	190	246	Average	VERTICAL
2	4842.16	45.64	74.00	-28.36	40.57	5.69	31.12	31.74	190	246	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4872.08	33.08	54.00	-20.92	27.93	5.72	31.15	31.72	190	296	Average	HORIZONTAL
2	4874.93	46.19	74.00	-27.81	41.04	5.72	31.15	31.72	190	296	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4872.54	33.00	54.00	-21.00	27.85	5.72	31.15	31.72	148	277	Average	VERTICAL
2	4875.54	46.19	74.00	-27.81	41.04	5.72	31.15	31.72	148	277	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4902.05	33.02	54.00	-20.98	27.79	5.74	31.19	31.70	166	168	Average	HORIZONTAL
2	4905.96	45.67	74.00	-28.33	40.44	5.74	31.19	31.70	166	168	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4902.16	33.11	54.00	-20.89	27.88	5.74	31.19	31.70	208	216	Average	VERTICAL
2	4905.94	46.11	74.00	-27.89	40.88	5.74	31.19	31.70	208	216	Peak	VERTICAL

<For Beamforming Mode>

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4824.02	48.11	74.00	-25.89	41.80	7.04	34.17	34.90	179	274	Peak	HORIZONTAL
2	4824.07	34.96	54.00	-19.04	28.65	7.04	34.17	34.90	179	274	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.28	48.27	74.00	-25.73	41.96	7.04	34.17	34.90	195	321	Peak	VERTICAL
2	4824.55	35.92	54.00	-18.08	29.61	7.04	34.17	34.90	195	321	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.96	48.95	74.00	-25.05	42.33	7.18	34.34	34.90	207	257	Peak	HORIZONTAL
2	4874.02	43.21	54.00	-10.79	36.59	7.18	34.34	34.90	207	248	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4874.01	43.48	54.00	-10.52	36.86	7.18	34.34	34.90	216	193	Average	VERTICAL
2	4874.08	50.85	74.00	-23.15	44.23	7.18	34.34	34.90	216	193	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.28	48.89	74.00	-25.11	42.05	7.28	34.46	34.90	184	226	Peak	HORIZONTAL
2	4924.22	35.95	54.00	-18.05	29.04	7.31	34.50	34.90	184	226	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.04	49.12	74.00	-24.88	42.28	7.28	34.46	34.90	212	117	Peak	VERTICAL
2	4923.95	36.24	54.00	-17.76	29.33	7.31	34.50	34.90	212	117	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4843.04	35.06	54.00	-18.94	28.60	7.11	34.25	34.90	193	260	Average	HORIZONTAL
2	4843.24	48.40	74.00	-25.60	41.94	7.11	34.25	34.90	193	260	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4843.06	35.00	54.00	-19.00	28.54	7.11	34.25	34.90	215	360	Average	VERTICAL
2	4843.79	48.49	74.00	-25.51	42.03	7.11	34.25	34.90	215	360	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.36	49.12	74.00	-24.88	42.50	7.18	34.34	34.90	167	148	Peak	HORIZONTAL
2	4874.85	35.63	54.00	-18.37	29.01	7.18	34.34	34.90	167	148	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.39	49.77	74.00	-24.23	43.15	7.18	34.34	34.90	135	60	Peak	VERTICAL
2	4873.75	35.87	54.00	-18.13	29.25	7.18	34.34	34.90	135	60	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4904.05	35.91	54.00	-18.09	29.15	7.24	34.42	34.90	165	210	Average	HORIZONTAL
2	4904.11	49.58	74.00	-24.42	42.82	7.24	34.42	34.90	165	210	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4903.59	36.91	54.00	-17.09	30.15	7.24	34.42	34.90	176	255	Average	VERTICAL
2	4904.04	48.82	74.00	-25.18	42.06	7.24	34.42	34.90	176	255	Peak	VERTICAL

For Antenna 2

<For Non-Beamforming Mode>

Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.98	53.07	74.00	-20.93	47.19	7.58	32.82	34.52	227	4	Peak	HORIZONTAL
2	4824.01	45.91	54.00	-8.09	40.03	7.58	32.82	34.52	227	4	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.93	51.36	74.00	-22.64	45.48	7.58	32.82	34.52	221	351	Peak	VERTICAL
2	4824.06	43.25	54.00	-10.75	37.37	7.58	32.82	34.52	221	351	Average	VERTICAL

Configurations	IEEE 802.11b CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4874.01	52.73	74.00	-21.27	46.73	7.60	32.91	34.51	236	359	Peak
2	4874.06	47.02	54.00	-6.98	41.02	7.60	32.91	34.51	236	359	Average
											HORIZONTAL
											HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4873.89	49.91	74.00	-24.09	43.91	7.60	32.91	34.51	210	17	Peak
2	4874.01	42.44	54.00	-11.56	36.44	7.60	32.91	34.51	210	17	Average
											VERTICAL
											VERTICAL

Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4923.91	48.15	74.00	-25.85	42.03	7.62	32.99	34.49	214	6 Peak	HORIZONTAL
2	4924.06	38.04	54.00	-15.96	31.92	7.62	32.99	34.49	214	6 Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4924.06	36.49	54.00	-17.51	30.37	7.62	32.99	34.49	180	355 Average	VERTICAL
2	4924.18	48.23	74.00	-25.77	42.11	7.62	32.99	34.49	180	355 Peak	VERTICAL

Configurations	IEEE 802.11g CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4815.96	35.13	54.00	-18.87	29.25	7.58	32.82	34.52	249	286	Average
2	4818.60	48.17	74.00	-25.83	42.29	7.58	32.82	34.52	249	333	Peak

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4814.28	35.10	54.00	-18.90	29.22	7.58	32.82	34.52	152	87	Average	VERTICAL
2	4816.40	48.00	74.00	-26.00	42.12	7.58	32.82	34.52	152	87	Peak	VERTICAL

Configurations	IEEE 802.11g CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4869.24	35.04	54.00	-18.96	29.04	7.60	32.91	34.51	213	140	Average
2	4871.48	47.75	74.00	-26.25	41.75	7.60	32.91	34.51	213	140	Peak

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4865.84	47.49	74.00	-26.51	41.53	7.59	32.88	34.51	173	290	Peak	VERTICAL
2	4871.56	35.31	54.00	-18.69	29.31	7.60	32.91	34.51	173	290	Average	VERTICAL

Configurations	IEEE 802.11g CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4915.64	47.07	74.00	-26.93	40.98	7.61	32.97	34.49	191	220	Peak	HORIZONTAL
2	4931.56	34.69	54.00	-19.31	28.57	7.62	32.99	34.49	191	220	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4918.96	47.68	74.00	-26.32	41.59	7.61	32.97	34.49	219	100	Peak	VERTICAL
2	4932.32	34.73	54.00	-19.27	28.61	7.62	32.99	34.49	219	100	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4825.52	35.31	54.00	-18.69	29.41	7.58	32.84	34.52	303	154	Average	HORIZONTAL
2	4832.52	48.31	74.00	-25.69	42.41	7.58	32.84	34.52	303	154	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4815.44	48.58	74.00	-25.42	42.70	7.58	32.82	34.52	175	306	Peak	VERTICAL
2	4821.00	35.16	54.00	-18.84	29.28	7.58	32.82	34.52	175	306	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4864.80	47.44	74.00	-26.56	41.48	7.59	32.88	34.51	132	285	Peak
2	4873.36	36.14	54.00	-17.86	30.14	7.60	32.91	34.51	132	285	Average

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4875.32	35.08	54.00	-18.92	29.08	7.60	32.91	34.51	206	110	Average
2	4878.28	47.60	74.00	-26.40	41.59	7.60	32.91	34.50	206	110	Peak

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4916.72	47.42	74.00	-26.58	41.33	7.61	32.97	34.49	262	93	Peak
2	4920.84	34.75	54.00	-19.25	28.66	7.61	32.97	34.49	262	93	Average

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4920.88	34.66	54.00	-19.34	28.57	7.61	32.97	34.49	310	278	Average
2	4921.36	47.03	74.00	-26.97	40.94	7.61	32.97	34.49	310	278	Peak

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4841.32	35.21	54.00	-18.79	29.28	7.59	32.86	34.52	261	302	Average
2	4846.92	47.52	74.00	-26.48	41.58	7.59	32.86	34.51	261	302	Peak

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4835.28	35.23	54.00	-18.77	29.33	7.58	32.84	34.52	282	183	Average
2	4846.76	48.04	74.00	-25.96	42.10	7.59	32.86	34.51	282	183	Peak

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4872.52	35.16	54.00	-18.84	29.16	7.60	32.91	34.51	179	316	Average
2	4876.00	47.97	74.00	-26.03	41.97	7.60	32.91	34.51	179	316	Peak

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4864.64	47.90	74.00	-26.10	41.94	7.59	32.88	34.51	109	178	Peak
2	4875.24	35.07	54.00	-18.93	29.07	7.60	32.91	34.51	109	178	Average

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4898.72	34.94	54.00	-19.06	28.88	7.61	32.95	34.50	291	16	Average
2	4904.80	47.36	74.00	-26.64	41.30	7.61	32.95	34.50	291	16	Peak

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4897.96	35.06	54.00	-18.94	29.00	7.61	32.95	34.50	105	336	Average
2	4900.04	47.30	74.00	-26.70	41.24	7.61	32.95	34.50	105	336	Peak

<For Beamforming Mode>

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.22	34.82	54.00	-19.18	28.51	7.04	34.17	34.90	243	178	Average	HORIZONTAL
2	4823.38	47.88	74.00	-26.12	41.57	7.04	34.17	34.90	243	178	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4824.58	48.80	74.00	-25.20	42.49	7.04	34.17	34.90	158	252	Peak	VERTICAL
2	4824.95	35.91	54.00	-18.09	29.60	7.04	34.17	34.90	158	252	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.98	37.31	54.00	-16.69	30.69	7.18	34.34	34.90	133	284	Average	HORIZONTAL
2	4874.35	47.19	74.00	-26.81	40.57	7.18	34.34	34.90	133	284	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.97	36.59	54.00	-17.41	29.97	7.18	34.34	34.90	171	306	Average	VERTICAL
2	4874.48	47.20	74.00	-26.80	40.58	7.18	34.34	34.90	171	306	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4924.04	49.71	74.00	-24.29	42.80	7.31	34.50	34.90	219	36	Peak	HORIZONTAL
2	4924.15	35.91	54.00	-18.09	29.00	7.31	34.50	34.90	219	36	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.00	36.03	54.00	-17.97	29.19	7.28	34.46	34.90	118	239	Average	VERTICAL
2	4924.47	49.11	74.00	-24.89	42.20	7.31	34.50	34.90	118	239	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4843.84	48.12	74.00	-25.88	41.66	7.11	34.25	34.90	215	324	Peak	HORIZONTAL
2	4843.93	34.87	54.00	-19.13	28.41	7.11	34.25	34.90	215	324	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4843.08	35.03	54.00	-18.97	28.57	7.11	34.25	34.90	187	257	Average	VERTICAL
2	4843.10	48.34	74.00	-25.66	41.88	7.11	34.25	34.90	187	257	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.77	48.88	74.00	-25.12	42.26	7.18	34.34	34.90	193	246	Peak	HORIZONTAL
2	4874.60	35.71	54.00	-18.29	29.09	7.18	34.34	34.90	193	246	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.14	49.06	74.00	-24.94	42.44	7.18	34.34	34.90	138	265	Peak	VERTICAL
2	4874.97	35.79	54.00	-18.21	29.17	7.18	34.34	34.90	138	265	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4903.44	49.56	74.00	-24.44	42.80	7.24	34.42	34.90	150	129	Peak	HORIZONTAL
2	4903.67	35.92	54.00	-18.08	29.16	7.24	34.42	34.90	150	129	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4904.37	35.87	54.00	-18.13	29.11	7.24	34.42	34.90	167	163	Average	VERTICAL
2	4904.70	49.26	74.00	-24.74	42.50	7.24	34.42	34.90	167	163	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

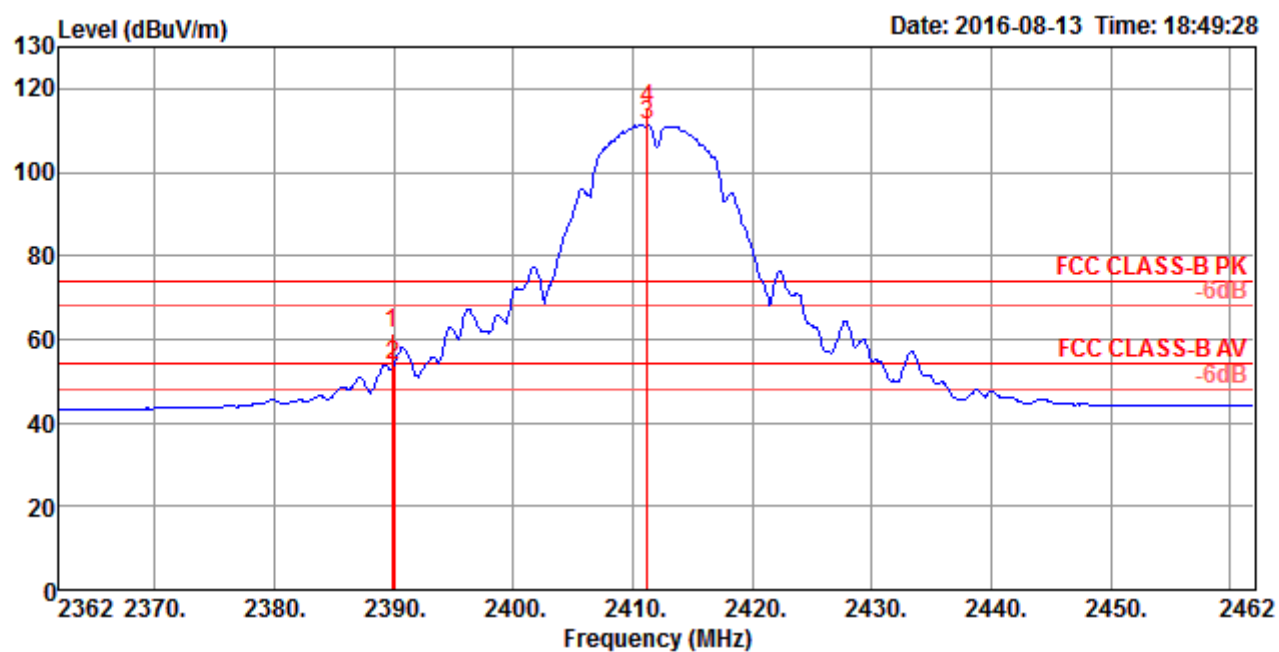
Band Edge Emissions

For Antenna 1

<For Non-Beamforming Mode>

Configurations	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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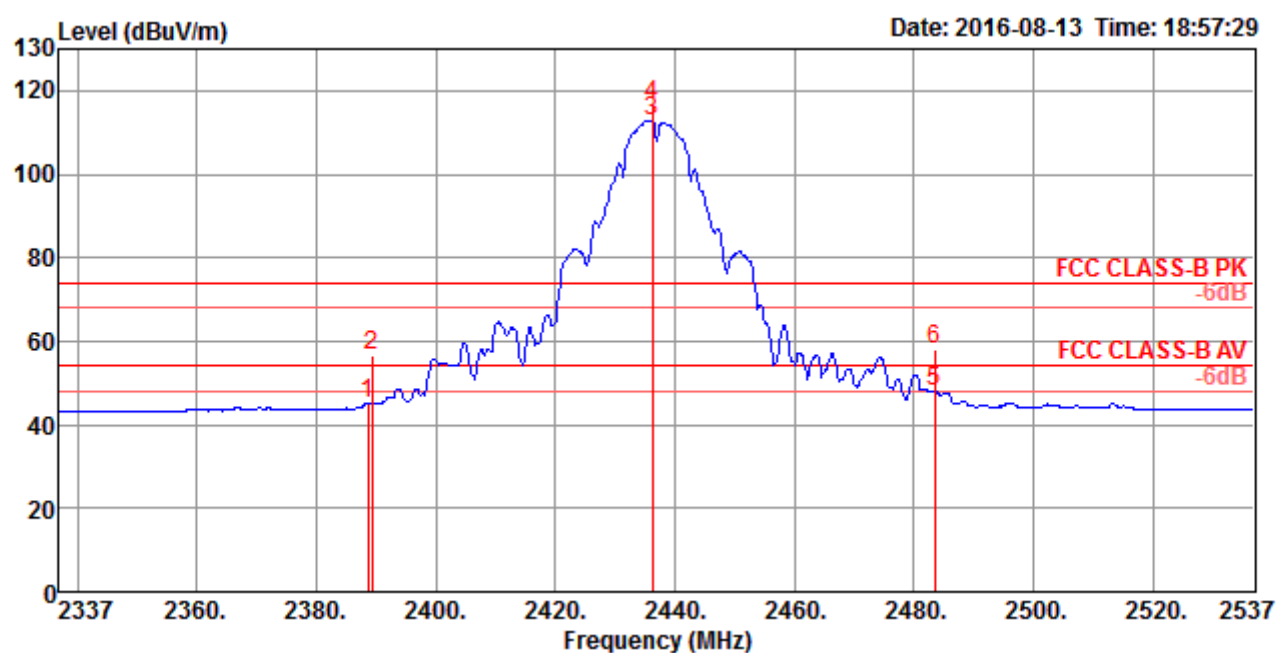
Channel 1



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.80	61.36	74.00	-12.64	30.10	4.03	27.23	0.00	202	196	Peak
2	2390.00	53.87	54.00	-0.13	22.61	4.03	27.23	0.00	202	196	Average
3 0	2411.20	111.47			80.12	4.05	27.30	0.00	202	196	Average
4 0	2411.20	115.27			83.92	4.05	27.30	0.00	202	196	Peak

Item 3, 4 are the fundamental frequency at 2412 MHz.

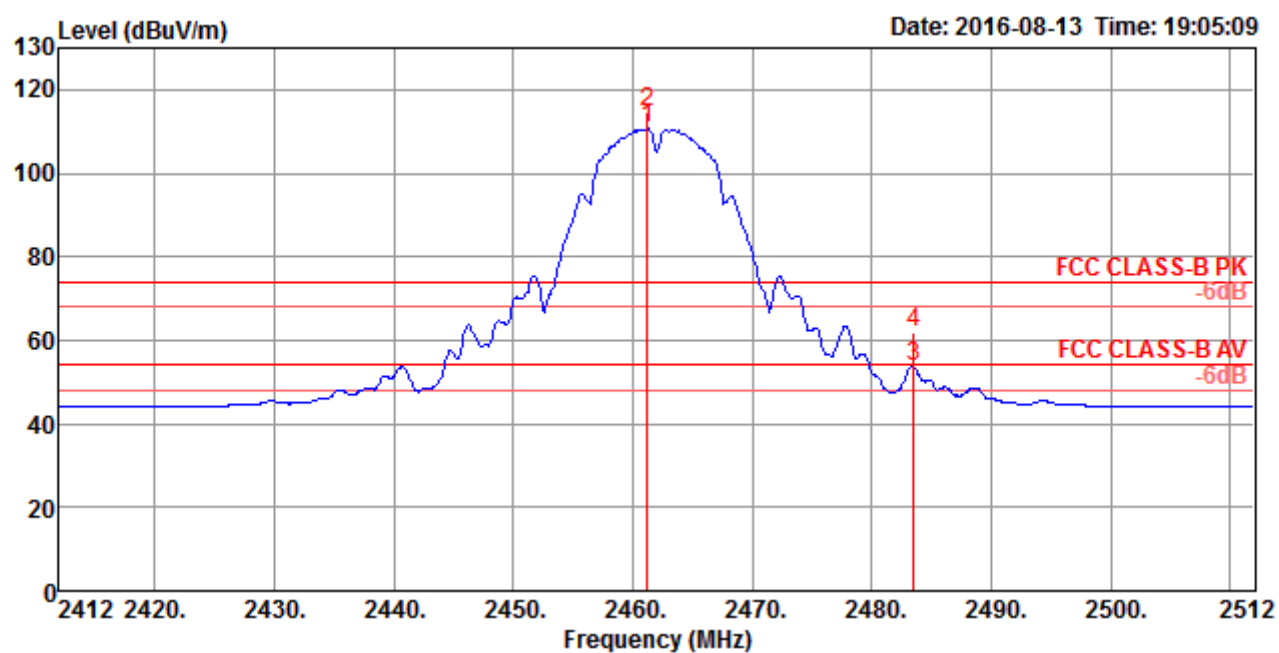
Channel 6



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2388.60	45.11	54.00	-8.89	13.85	4.03	27.23	0.00	198	206	Average
2	2389.40	56.72	74.00	-17.28	25.46	4.03	27.23	0.00	198	206	Peak
3 0	2436.20	112.86			81.45	4.06	27.35	0.00	198	206	Average
4 0	2436.20	116.77			85.36	4.06	27.35	0.00	198	206	Peak
5	2483.50	48.11	54.00	-5.89	16.54	4.10	27.47	0.00	198	206	Average
6	2483.50	57.90	74.00	-16.10	26.33	4.10	27.47	0.00	198	206	Peak

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

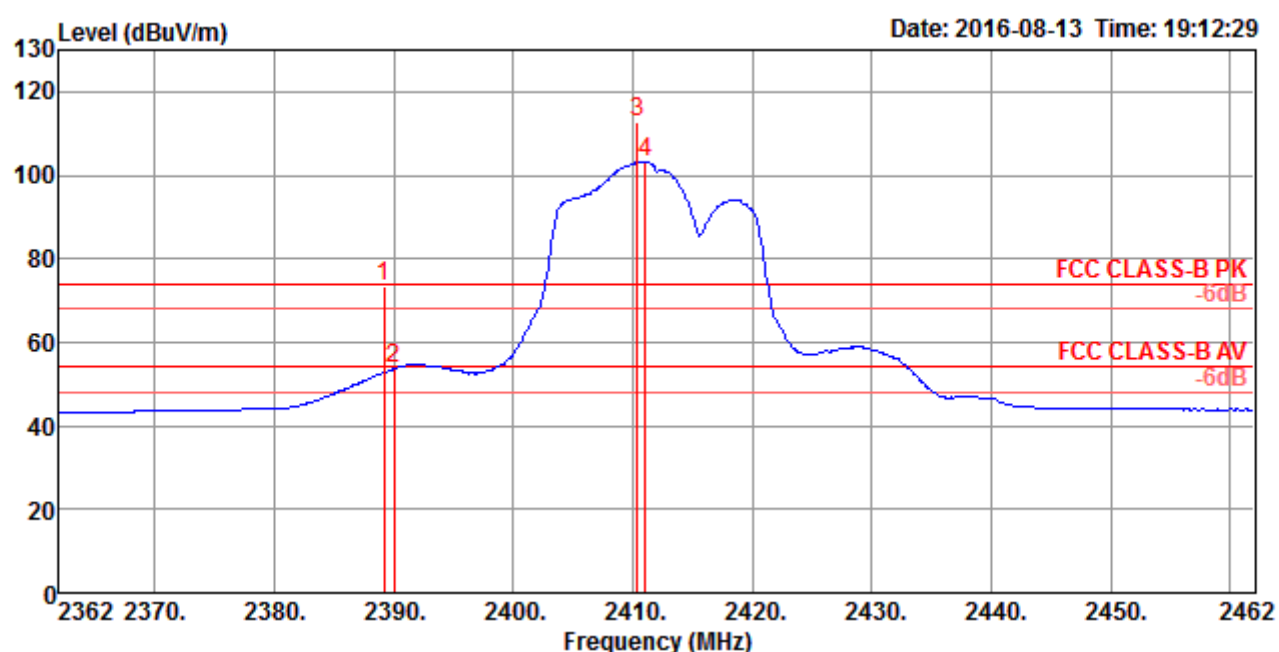


		Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	0	2461.20	110.69			79.19	4.08	27.42	0.00	191	206	Average	VERTICAL
2	0	2461.20	114.58			83.08	4.08	27.42	0.00	191	206	Peak	VERTICAL
3		2483.50	53.54	54.00	-0.46	21.97	4.10	27.47	0.00	191	206	Average	VERTICAL
4		2483.50	61.72	74.00	-12.28	30.15	4.10	27.47	0.00	191	206	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Configurations	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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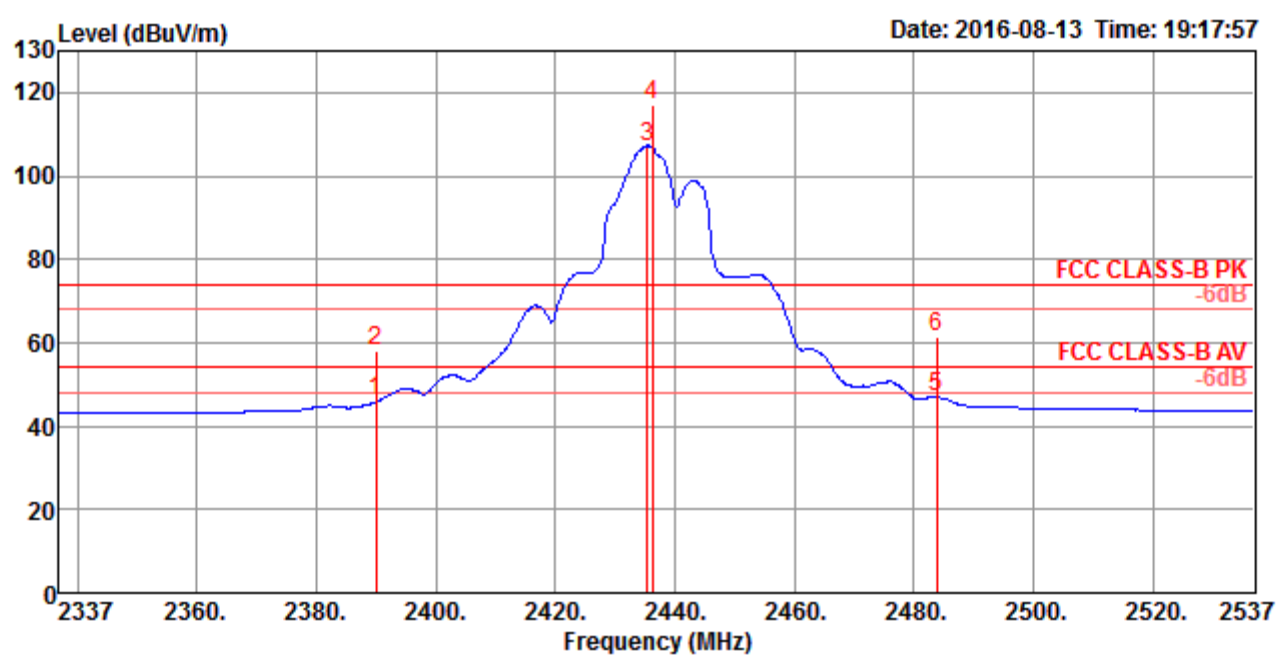
Channel 1



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.20	73.47	74.00	-0.53	42.21	4.03	27.23	0.00	200	220 Peak	VERTICAL
2	2390.00	53.74	54.00	-0.26	22.48	4.03	27.23	0.00	200	220 Average	VERTICAL
3 0	2410.40	112.84			81.51	4.05	27.28	0.00	200	220 Peak	VERTICAL
4 0	2411.00	103.26			71.93	4.05	27.28	0.00	200	220 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

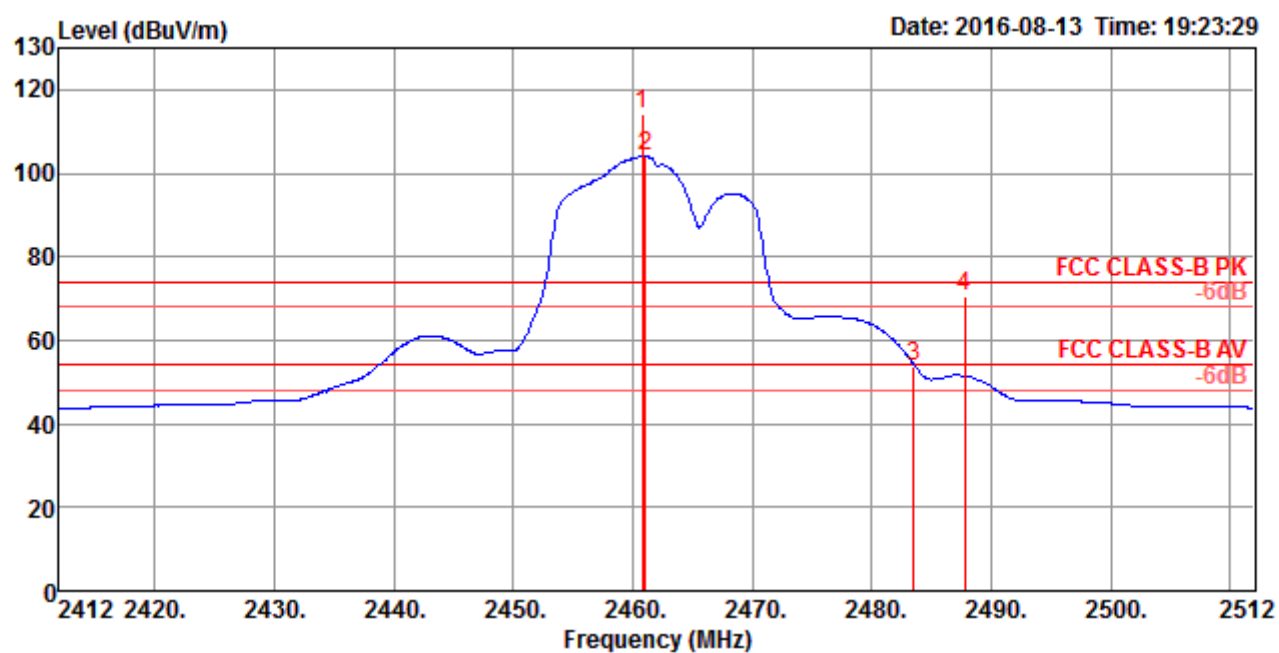
Channel 6



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	45.89	54.00	-8.11	14.63	4.03	27.23	0.00	195	232 Average	VERTICAL
2	2390.00	58.25	74.00	-15.75	26.99	4.03	27.23	0.00	195	232 Peak	VERTICAL
3 0	2435.40	107.21			75.80	4.06	27.35	0.00	195	232 Average	VERTICAL
4 0	2436.20	117.15			85.74	4.06	27.35	0.00	195	232 Peak	VERTICAL
5	2483.80	47.03	54.00	-6.97	15.46	4.10	27.47	0.00	195	232 Average	VERTICAL
6	2483.80	61.63	74.00	-12.37	30.06	4.10	27.47	0.00	195	232 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

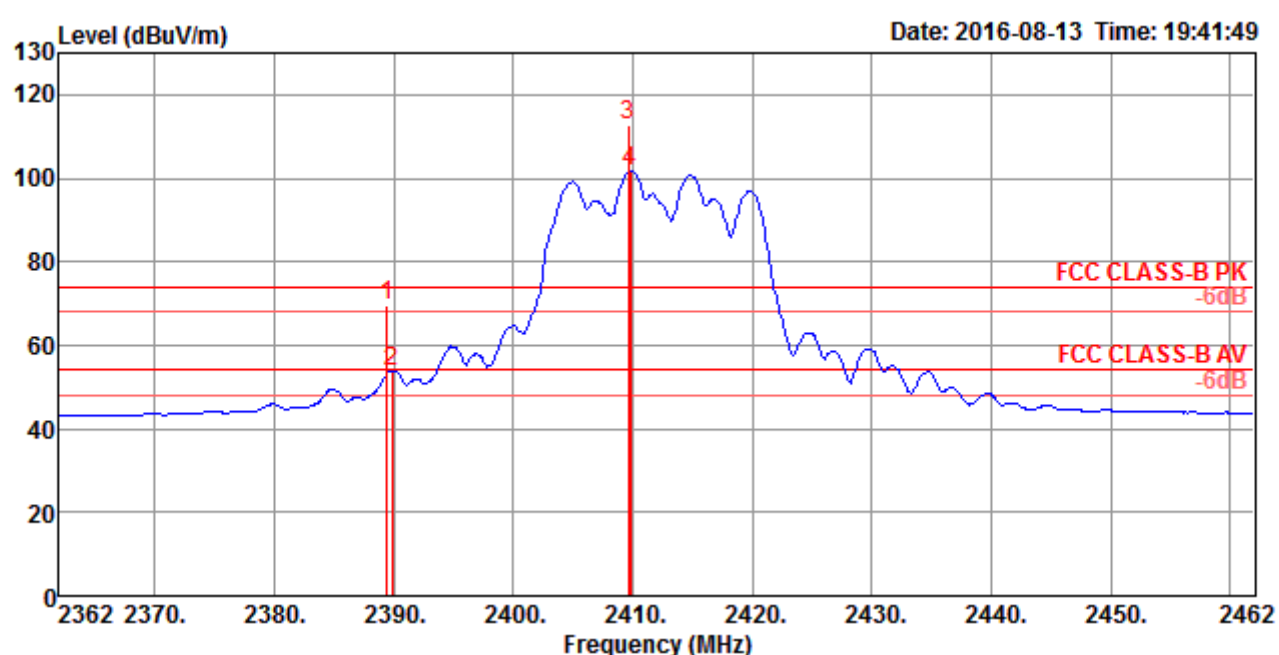


		Freq	Level	Limit	Over	Read	CableAntenna	Preampl	A/Pos	T/Pos	Remark	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	0	2460.80	114.37			82.87	4.08	27.42	0.00	190	213	Peak
2	0	2461.00	104.01			72.51	4.08	27.42	0.00	190	213	Average
3		2483.50	53.83	54.00	-0.17	22.26	4.10	27.47	0.00	190	213	Average
4		2487.80	70.40	74.00	-3.60	38.83	4.10	27.47	0.00	190	213	Peak

Item 1, 2 are the fundamental frequency at 2462 MHz.

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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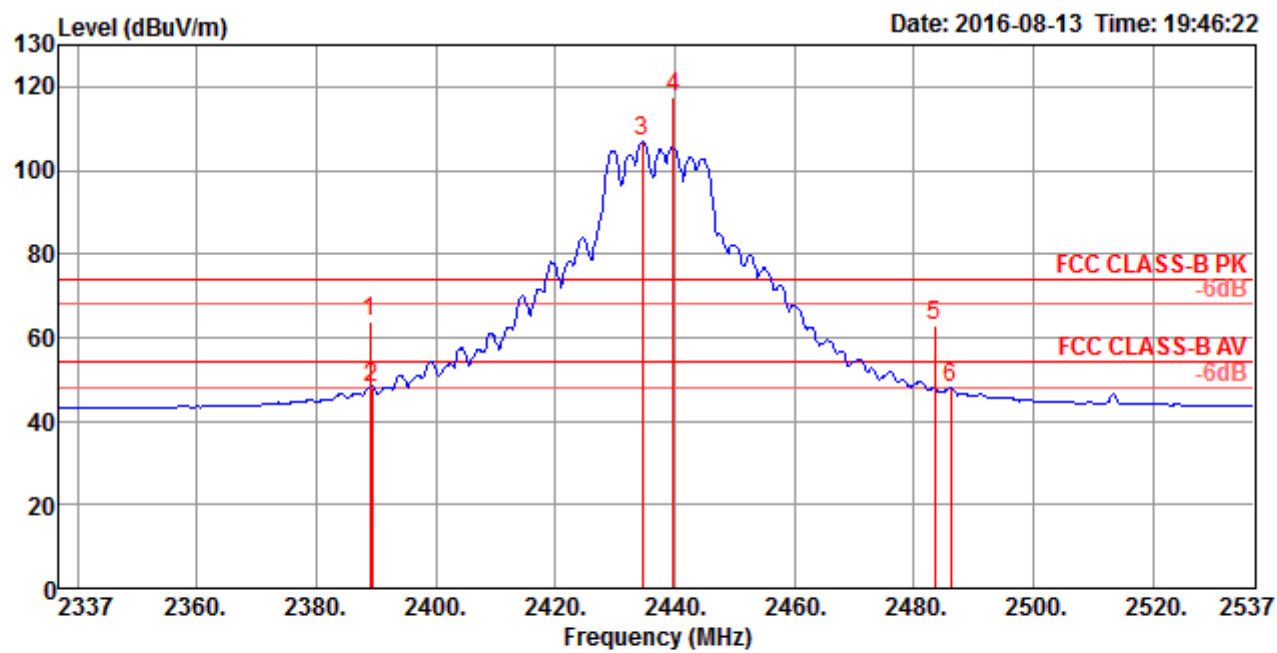
Channel 1



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.40	69.57	74.00	-4.43	38.31	4.03	27.23	0.00	140	257 Peak	VERTICAL
2	2389.80	53.93	54.00	-0.07	22.67	4.03	27.23	0.00	140	257 Average	VERTICAL
3 0	2409.60	112.75			81.42	4.05	27.28	0.00	140	257 Peak	VERTICAL
4 0	2409.80	101.75			70.42	4.05	27.28	0.00	140	257 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

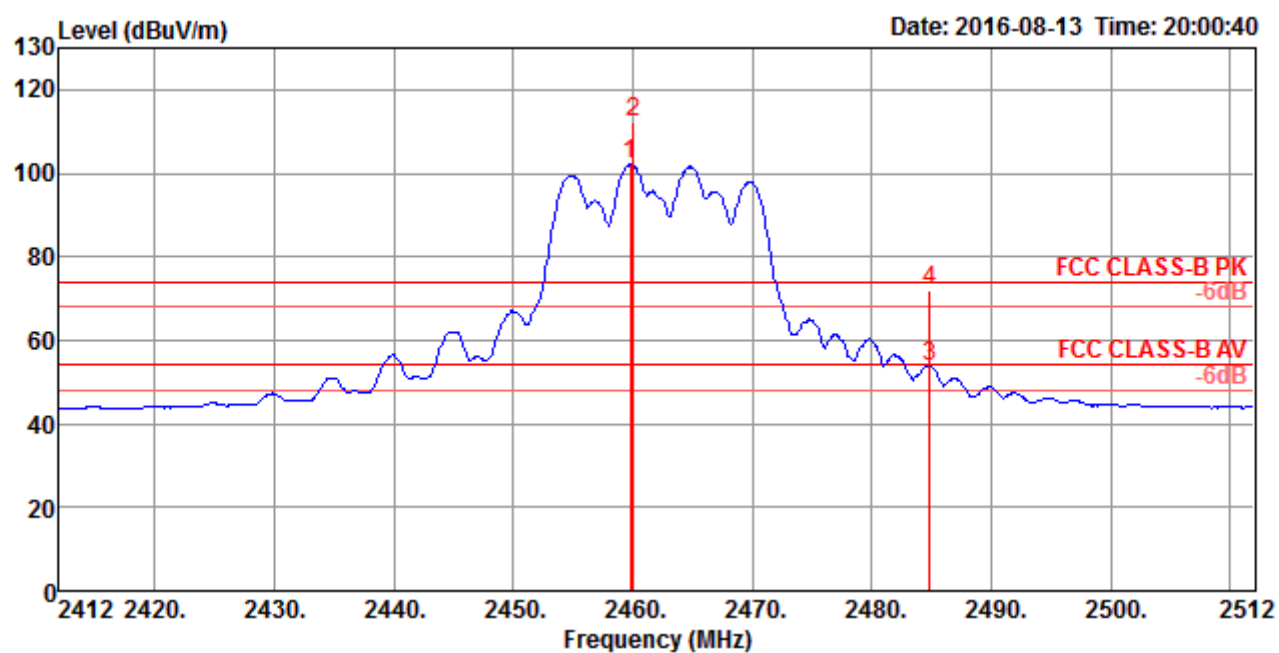
Channel 6



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.00	63.72	74.00	-10.28	32.46	4.03	27.23	0.00	238	82 Peak	VERTICAL
2	2389.40	48.20	54.00	-5.80	16.94	4.03	27.23	0.00	238	82 Average	VERTICAL
3 0	2434.60	106.93			75.52	4.06	27.35	0.00	238	82 Average	VERTICAL
4 0	2439.80	117.47			86.04	4.07	27.36	0.00	238	82 Peak	VERTICAL
5	2483.50	62.73	74.00	-11.27	31.16	4.10	27.47	0.00	238	82 Peak	VERTICAL
6	2486.20	47.81	54.00	-6.19	16.24	4.10	27.47	0.00	238	82 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

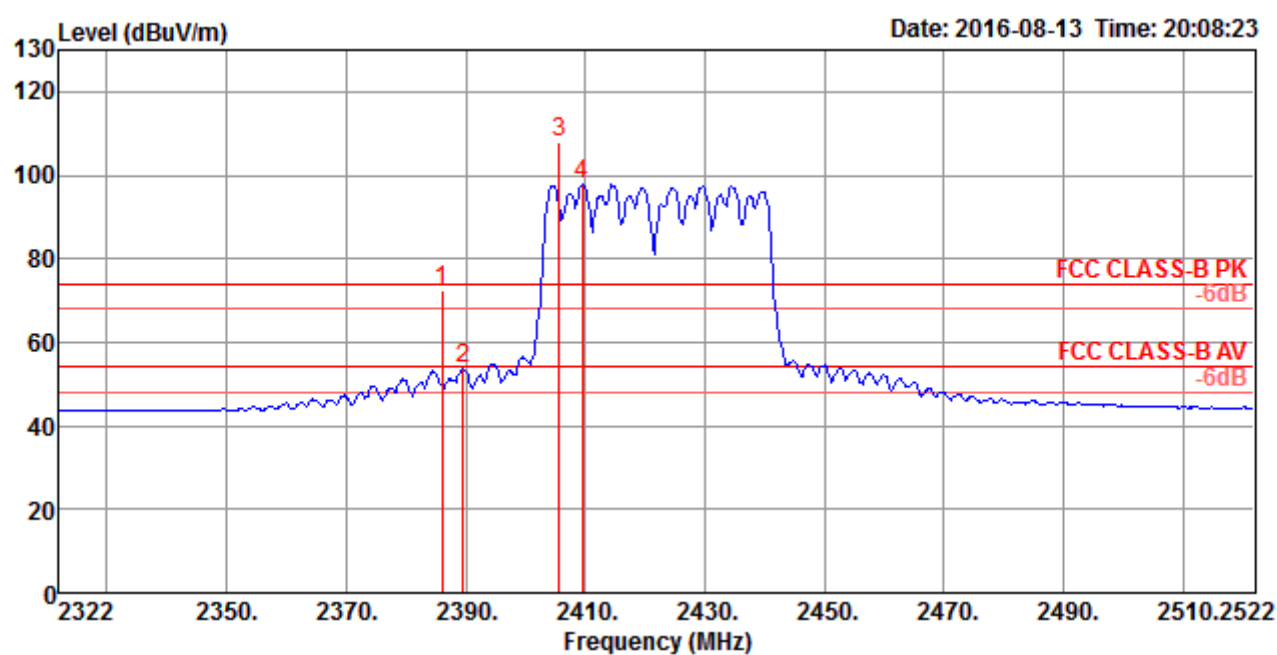


	Freq	Level	Limit	Over	Read	CableAntenna	Preampl	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1 0	2459.80	102.04			70.56	4.08	27.40	0.00	140	266	Average
2 0	2460.00	112.42			80.94	4.08	27.40	0.00	140	266	Peak
3	2484.80	53.64	54.00	-0.36	22.07	4.10	27.47	0.00	140	266	Average
4	2484.80	71.87	74.00	-2.13	40.30	4.10	27.47	0.00	140	266	Peak

Item 1, 2 are the fundamental frequency at 2462 MHz.

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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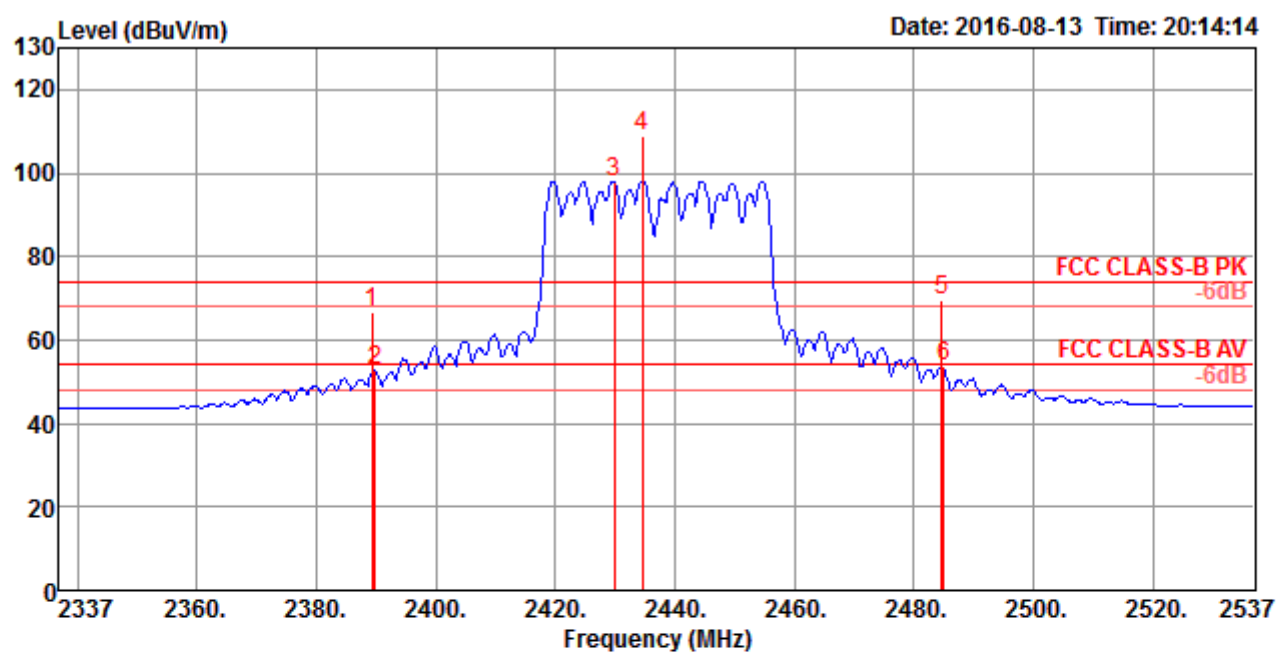
Channel 3



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2386.00	72.45	74.00	-1.55	41.19	4.03	27.23	0.00	244	94 Peak	VERTICAL
2	2389.60	53.60	54.00	-0.40	22.34	4.03	27.23	0.00	244	94 Average	VERTICAL
3 0	2405.60	107.74			76.41	4.05	27.28	0.00	244	94 Peak	VERTICAL
4 0	2409.60	97.72			66.39	4.05	27.28	0.00	244	94 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

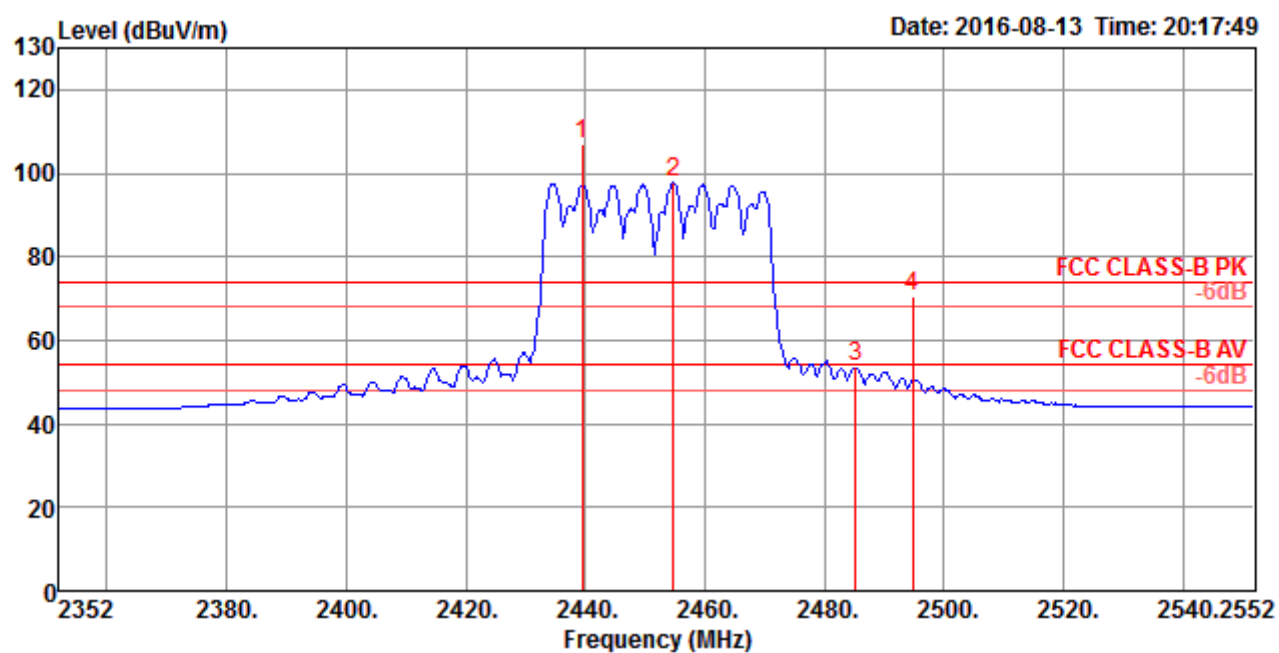
Channel 6



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.40	66.52	74.00	-7.48	35.26	4.03	27.23	0.00	220	104	Peak
2	2389.80	52.56	54.00	-1.44	21.30	4.03	27.23	0.00	220	104	Average
3 0	2429.80	98.04			66.65	4.06	27.33	0.00	220	104	Average
4 0	2434.60	108.70			77.29	4.06	27.35	0.00	220	104	Peak
5	2484.60	69.38	74.00	-4.62	37.81	4.10	27.47	0.00	220	104	Peak
6	2485.00	53.55	54.00	-0.45	21.98	4.10	27.47	0.00	220	104	Average

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



		Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	0	2439.60	106.96			75.53	4.07	27.36	0.00	200	93	Peak
2	0	2454.80	97.72			66.24	4.08	27.40	0.00	200	93	Average
3		2485.20	53.51	54.00	-0.49	21.94	4.10	27.47	0.00	200	93	Average
4		2494.80	70.60	74.00	-3.40	39.02	4.10	27.48	0.00	200	93	Peak

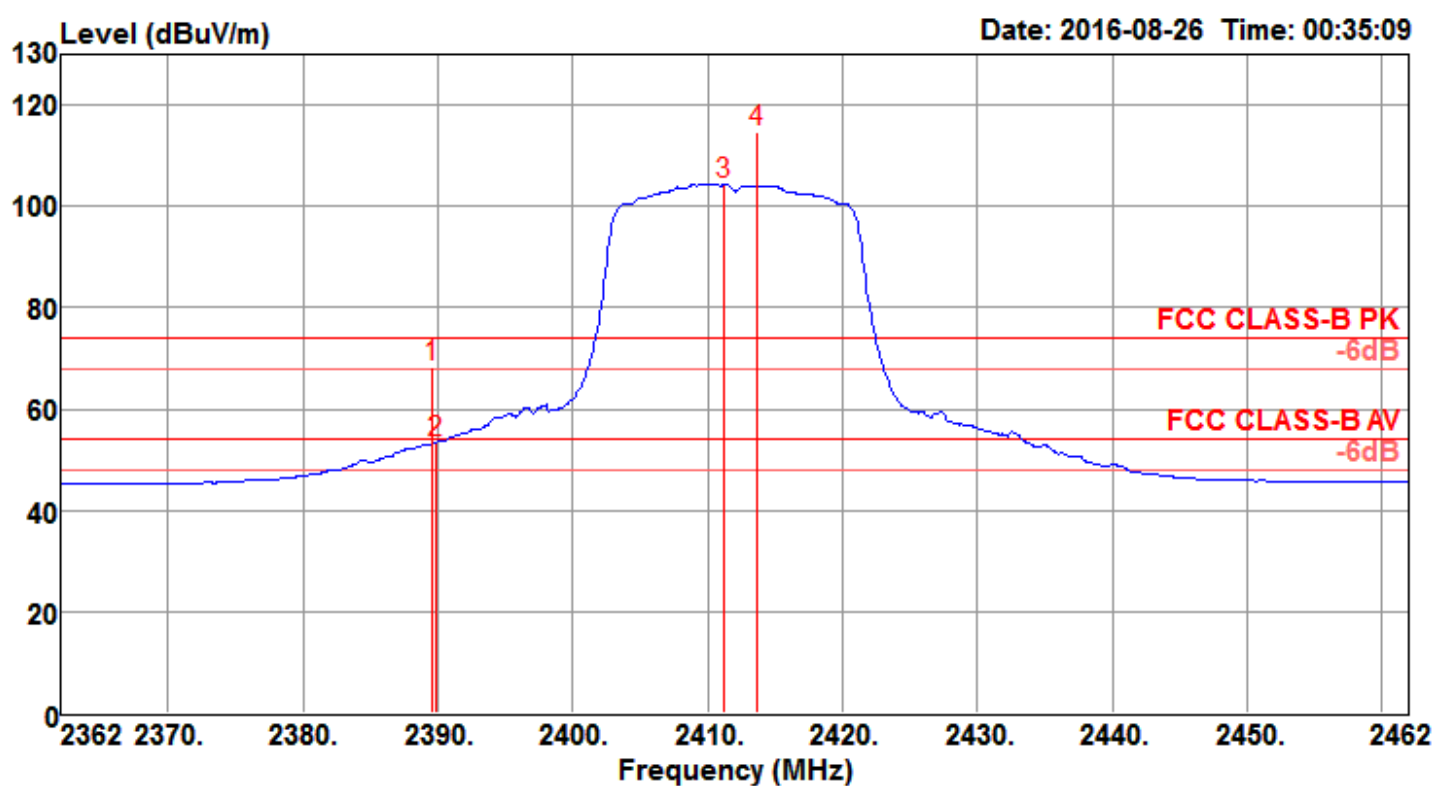
Item 1, 2 are the fundamental frequency at 2452 MHz.

<For Beamforming Mode>

Configurations

IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4

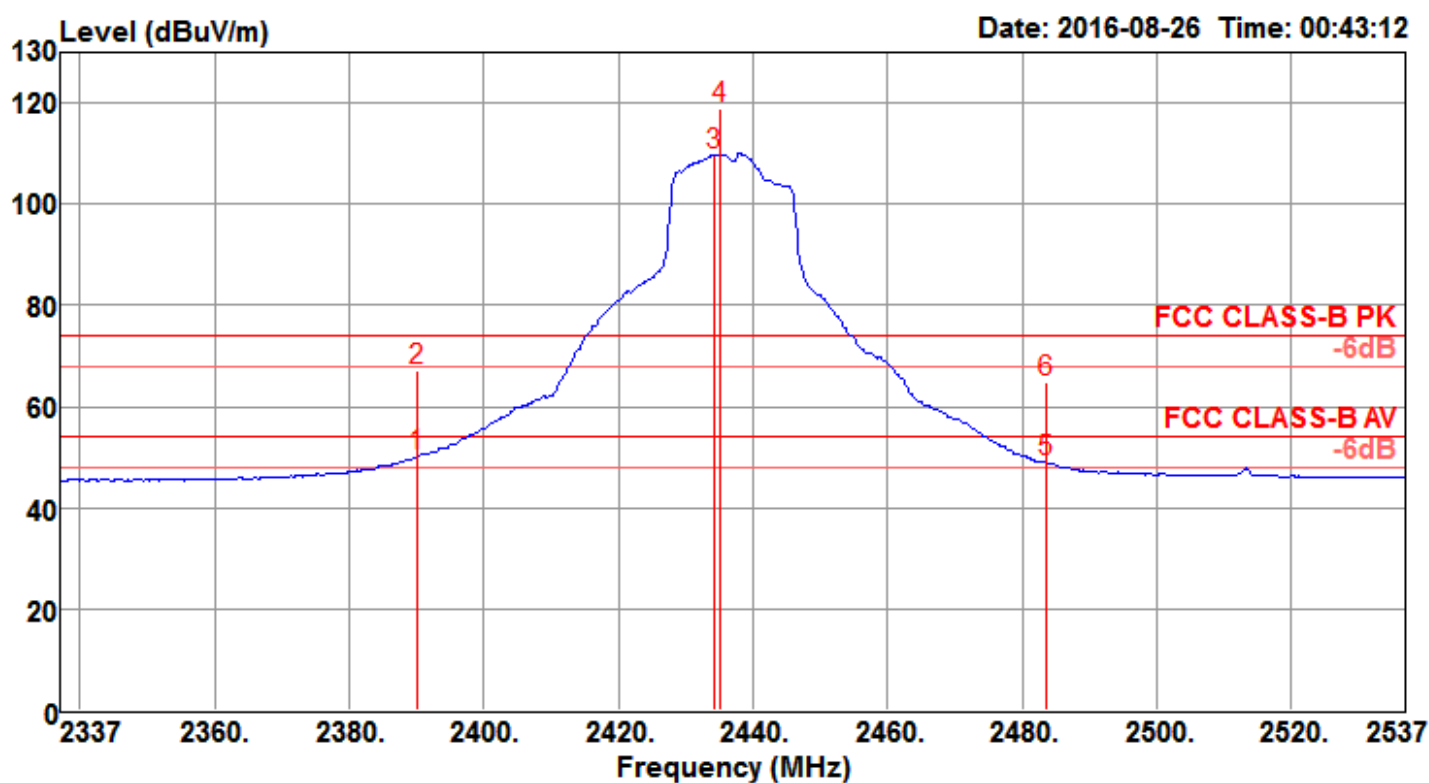
Channel 1



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	cm	deg	
1	2389.60	68.45	74.00	-5.55	35.34	4.54	28.57	0.00	220	35	Peak
2	2389.80	53.47	54.00	-0.53	20.36	4.54	28.57	0.00	220	35	Average
3 @	2411.20	104.49			71.29	4.57	28.63	0.00	220	35	Average
4 @	2413.60	114.49			81.29	4.57	28.63	0.00	220	35	Peak

Item 3, 4 are the fundamental frequency at 2412 MHz.

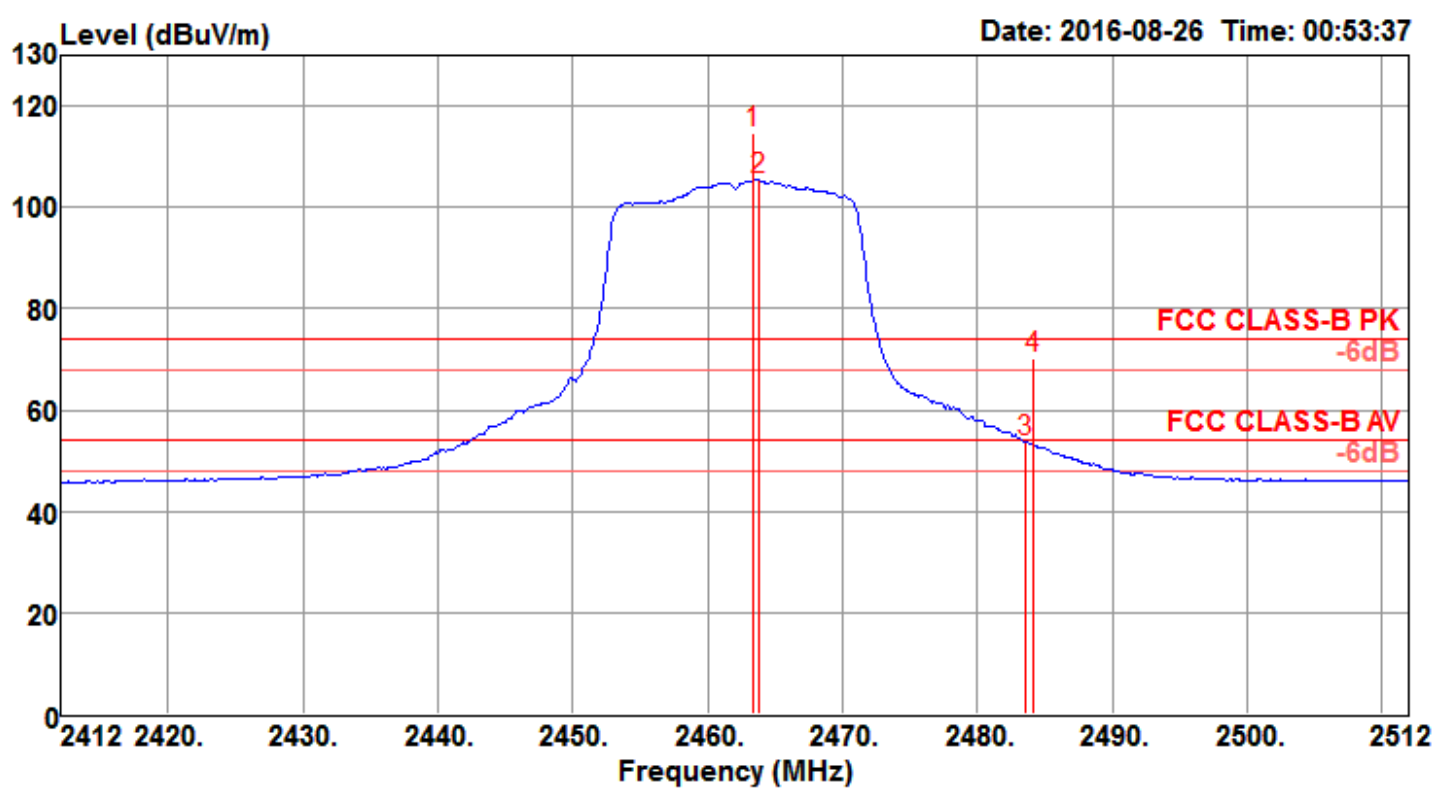
Channel 6



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2390.00	50.07	54.00	-3.93	16.96	4.54	28.57	0.00	204	24	Average	VERTICAL
2	2390.00	67.02	74.00	-6.98	33.91	4.54	28.57	0.00	204	24	Peak	VERTICAL
3 @	2434.20	109.81			76.55	4.59	28.67	0.00	204	24	Average	VERTICAL
4 @	2435.00	118.96			85.70	4.59	28.67	0.00	204	24	Peak	VERTICAL
5	2483.50	48.91	54.00	-5.09	15.51	4.63	28.77	0.00	204	24	Average	VERTICAL
6	2483.50	65.01	74.00	-8.99	31.61	4.63	28.77	0.00	204	24	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11



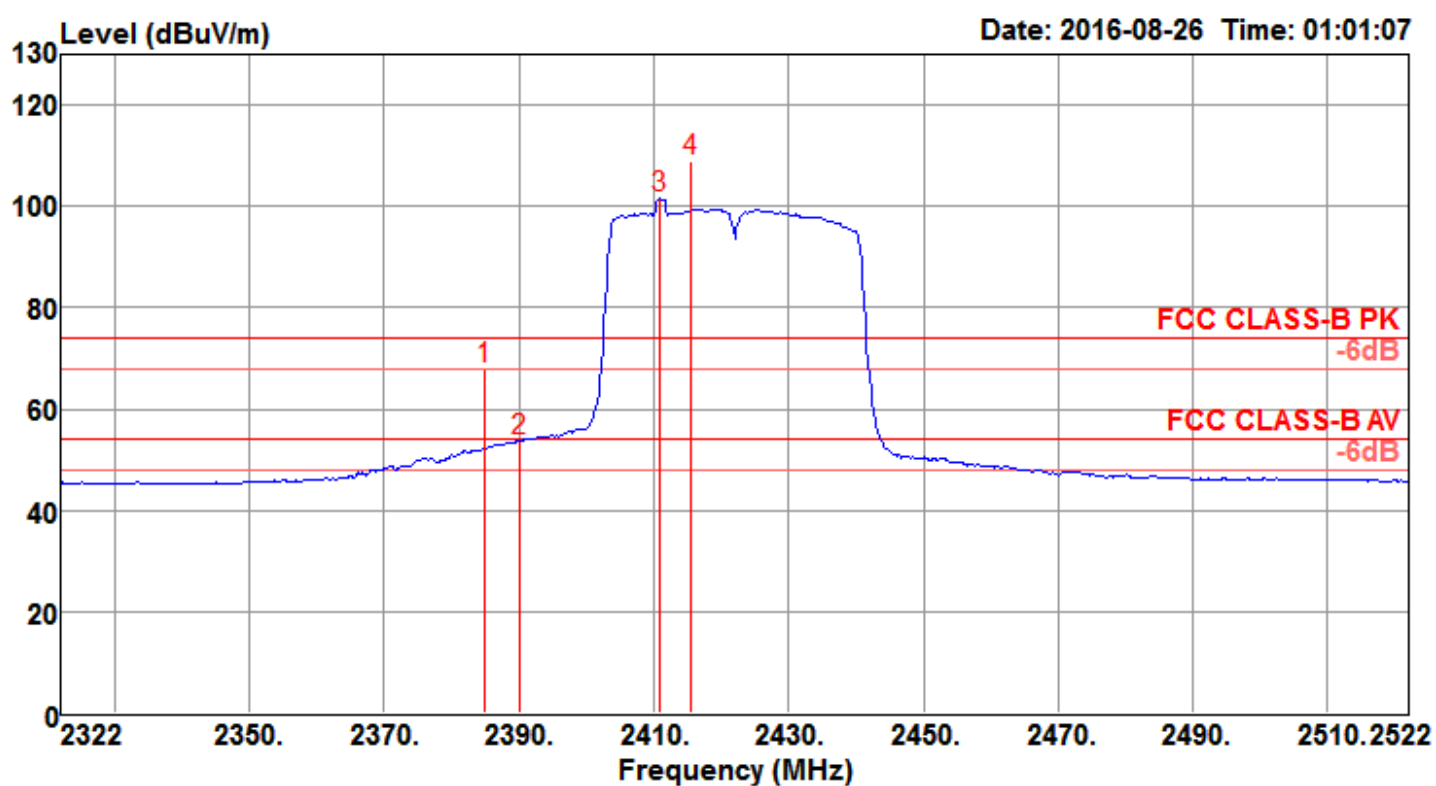
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1 @	2463.40	114.76			81.42	4.61	28.73	0.00	176	31 Peak	VERTICAL
2 @	2463.80	105.40			72.06	4.61	28.73	0.00	176	31 Average	VERTICAL
3	2483.50	53.88	54.00	-0.12	20.48	4.63	28.77	0.00	176	31 Average	VERTICAL
4	2484.20	70.21	74.00	-3.79	36.81	4.63	28.77	0.00	176	31 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Configurations

IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4

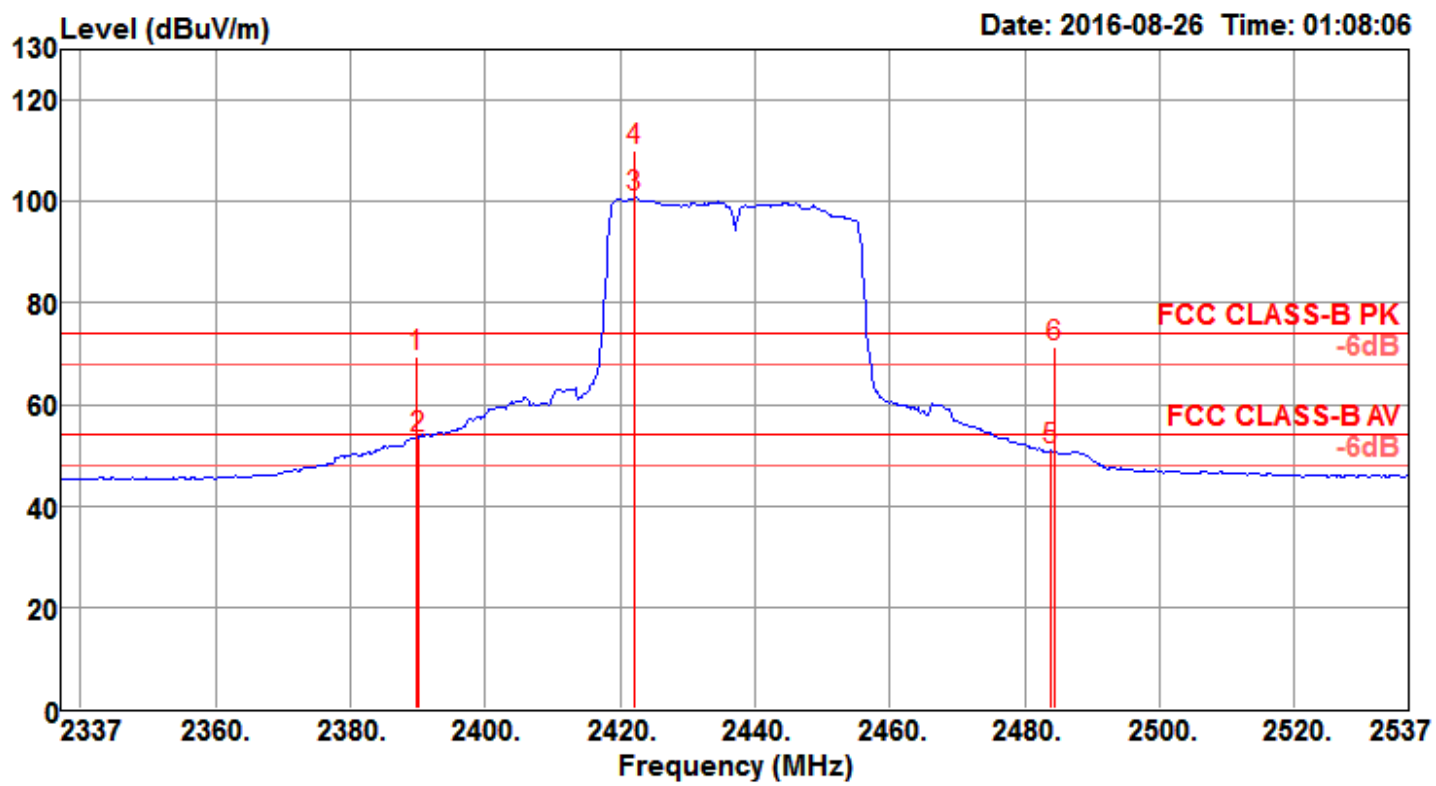
Channel 3



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	cm	deg	
1	2384.80	67.98	74.00	-6.02	34.87	4.54	28.57	0.00	185	26	Peak
2	2390.00	53.61	54.00	-0.39	20.50	4.54	28.57	0.00	185	26	Average
3 @	2410.80	101.48			68.30	4.57	28.61	0.00	185	26	Average
4 @	2415.60	109.05			75.85	4.57	28.63	0.00	185	26	Peak

Item 3, 4 are the fundamental frequency at 2422 MHz.

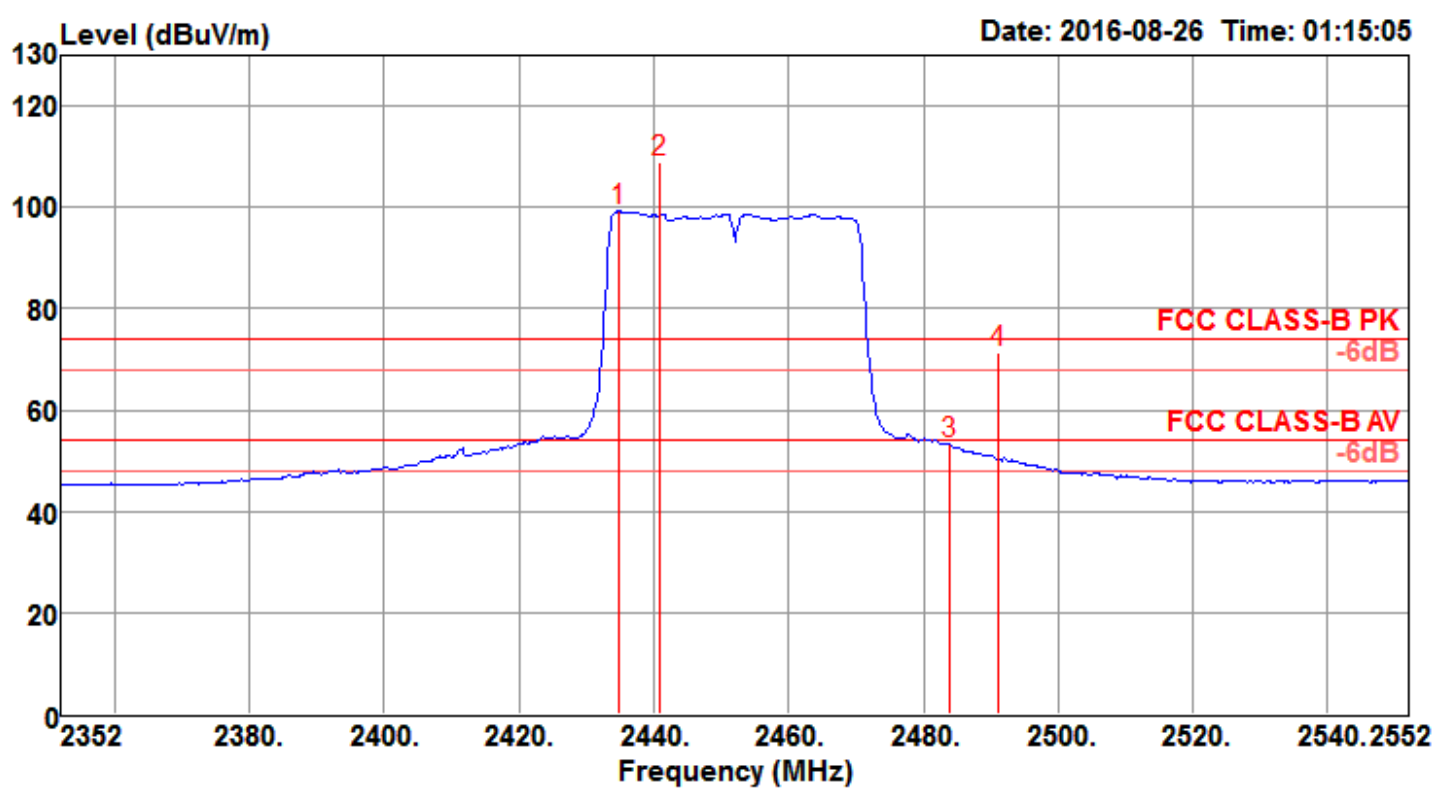
Channel 6



	Freq	Level	Limit	Over	Read	CableAntenna		Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2389.80	69.35	74.00	-4.65	36.24	4.54	28.57	0.00	212	52	Peak	VERTICAL
2	2390.00	53.51	54.00	-0.49	20.40	4.54	28.57	0.00	212	52	Average	VERTICAL
3 @	2422.20	100.84			67.62	4.58	28.64	0.00	212	52	Average	VERTICAL
4 @	2422.20	110.20			76.98	4.58	28.64	0.00	212	52	Peak	VERTICAL
5	2483.80	50.88	54.00	-3.12	17.48	4.63	28.77	0.00	212	52	Average	VERTICAL
6	2484.60	71.16	74.00	-2.84	37.76	4.63	28.77	0.00	212	52	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1 @	2434.80	99.20			65.94	4.59	28.67	0.00	217	24 Average	VERTICAL
2 @	2440.80	108.85			75.56	4.60	28.69	0.00	217	24 Peak	VERTICAL
3	2484.00	53.33	54.00	-0.67	19.93	4.63	28.77	0.00	217	24 Average	VERTICAL
4	2491.20	71.45	74.00	-2.55	38.02	4.64	28.79	0.00	217	24 Peak	VERTICAL

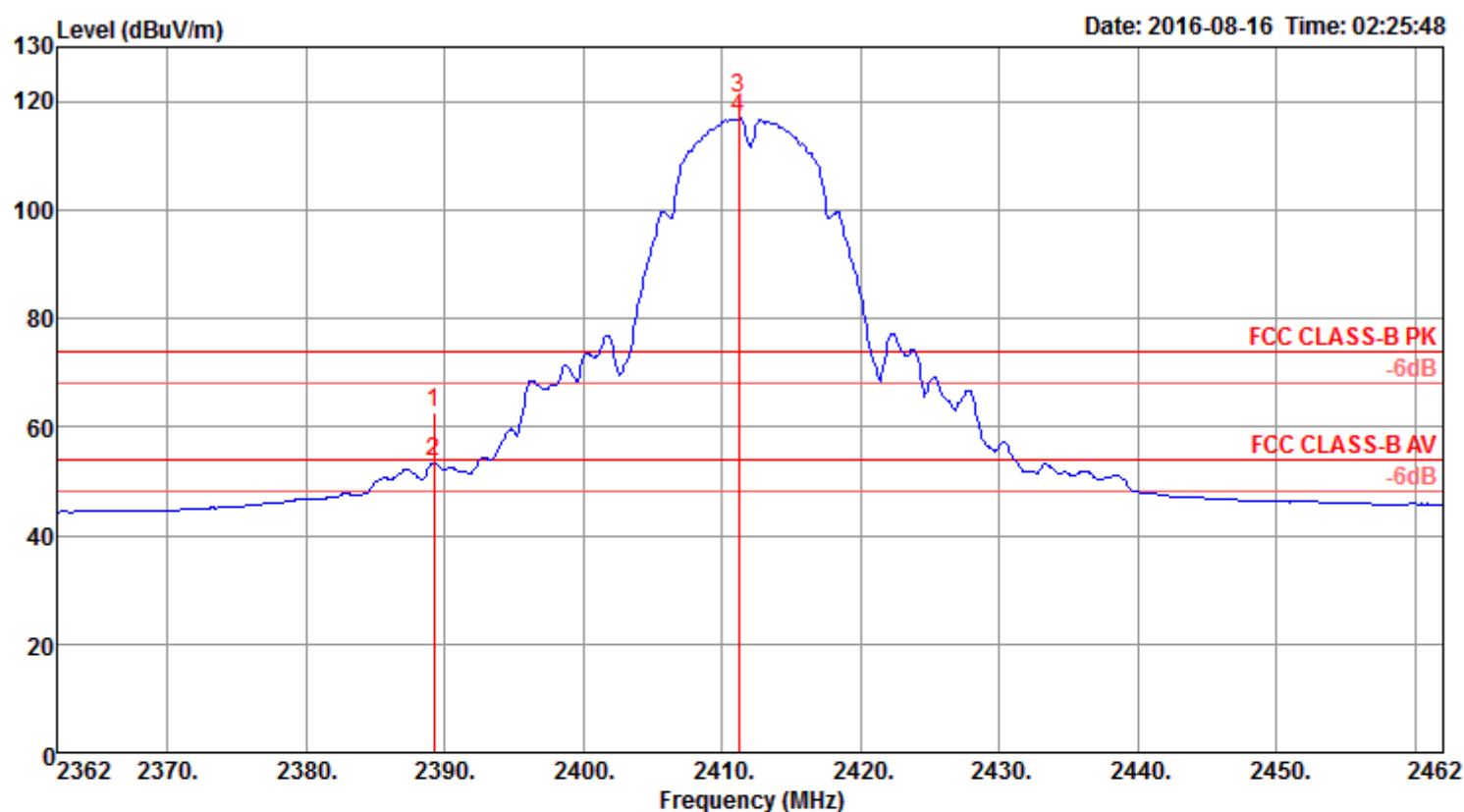
Item 1, 2 are the fundamental frequency at 2452 MHz.

For Antenna 2

<For Non-Beamforming Mode>

Configurations	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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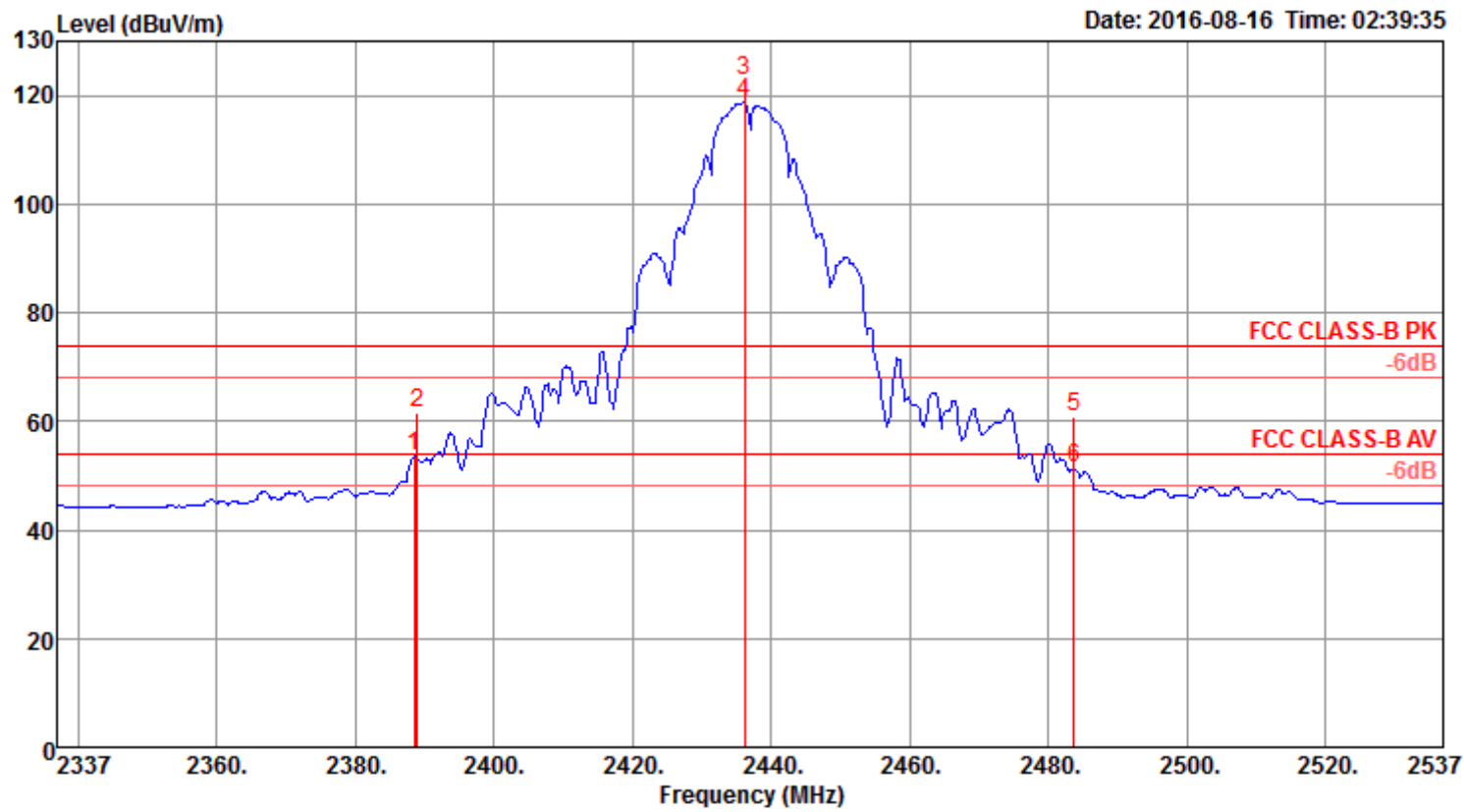
Channel 1



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.20	62.68	74.00	-11.32	30.13	4.53	28.02	0.00	181	0 Peak	HORIZONTAL
2	2389.20	53.51	54.00	-0.49	20.96	4.53	28.02	0.00	181	0 Average	HORIZONTAL
3	2411.20	120.65			88.09	4.57	27.99	0.00	181	0 Peak	HORIZONTAL
4	2411.20	116.86			84.30	4.57	27.99	0.00	181	0 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

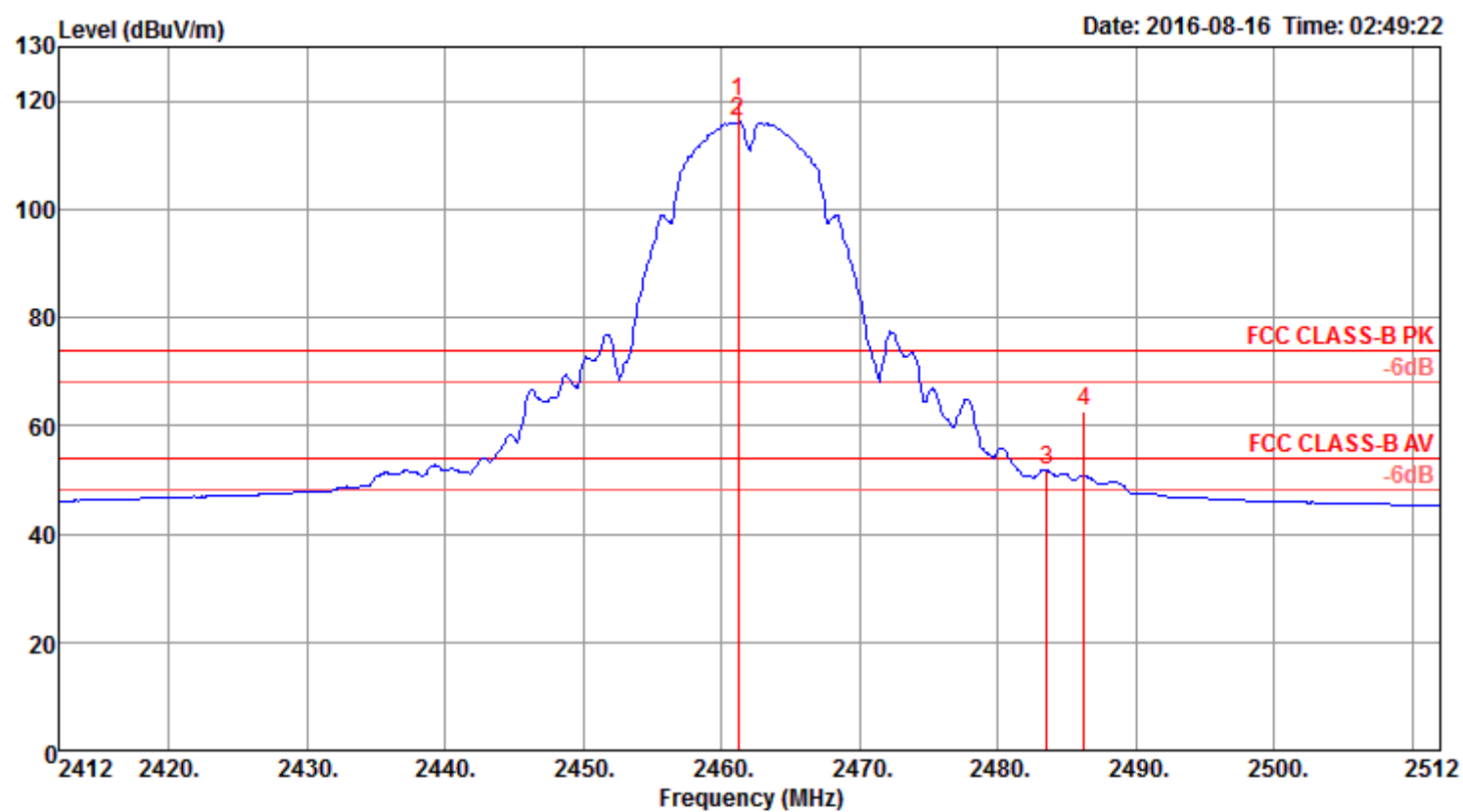
Channel 6



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2388.60	53.57	54.00	-0.43	21.02	4.53	28.02	0.00	162	2	Average	HORIZONTAL
2	2389.00	61.49	74.00	-12.51	28.94	4.53	28.02	0.00	162	2	Peak	HORIZONTAL
3	2436.20	122.58			90.01	4.60	27.97	0.00	162	2	Peak	HORIZONTAL
4	2436.20	118.63			86.06	4.60	27.97	0.00	162	2	Average	HORIZONTAL
5	2483.80	60.77	74.00	-13.23	28.17	4.68	27.92	0.00	162	2	Peak	HORIZONTAL
6	2483.80	51.26	54.00	-2.74	18.66	4.68	27.92	0.00	162	2	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

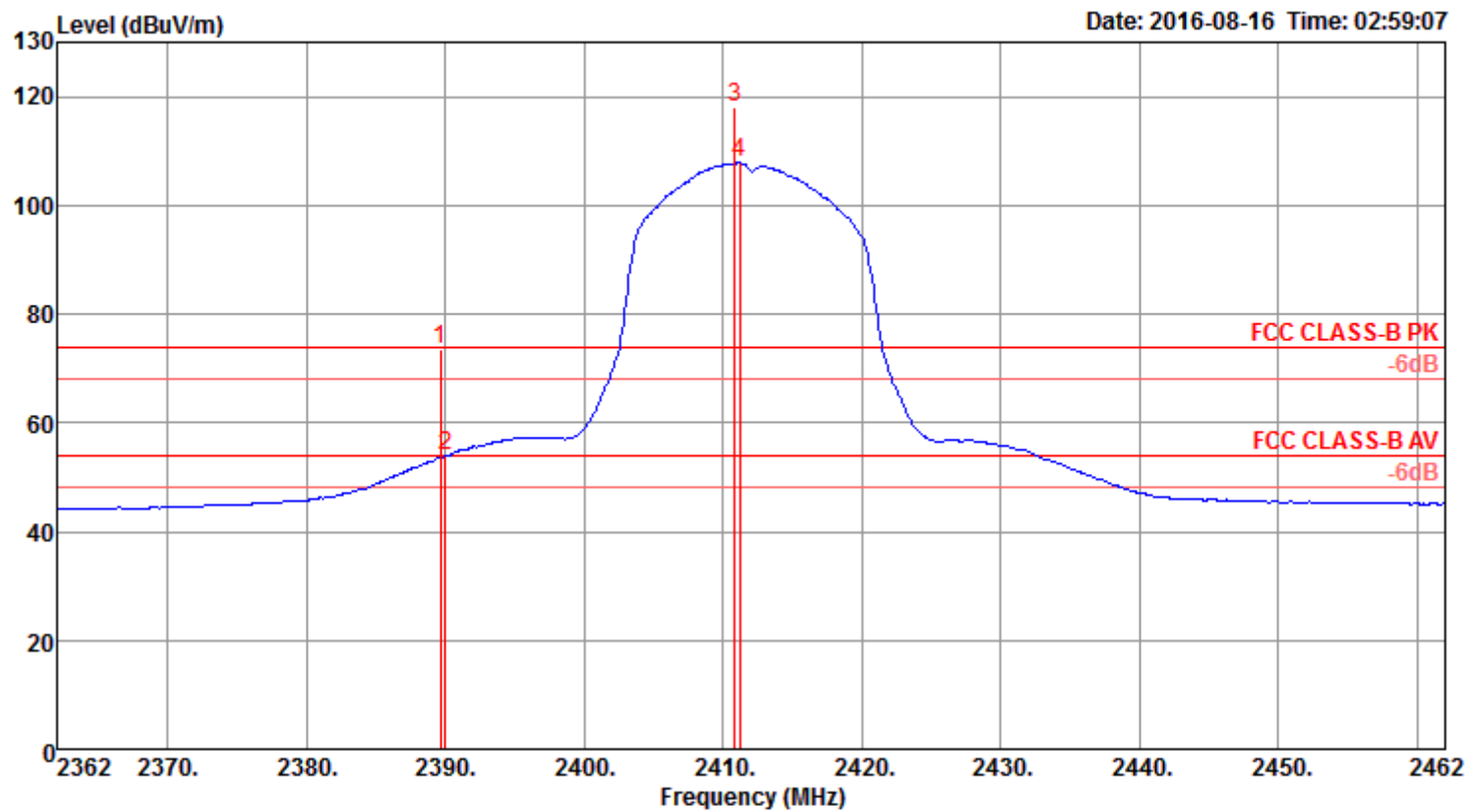


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	cm	deg	
1	2461.20	120.00			87.42	4.64	27.94	0.00	198	2 Peak	HORIZONTAL
2	2461.20	116.20			83.62	4.64	27.94	0.00	198	2 Average	HORIZONTAL
3	2483.50	51.65	54.00	-2.35	19.05	4.68	27.92	0.00	198	2 Average	HORIZONTAL
4	2486.20	62.49	74.00	-11.51	29.89	4.68	27.92	0.00	198	2 Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Configurations	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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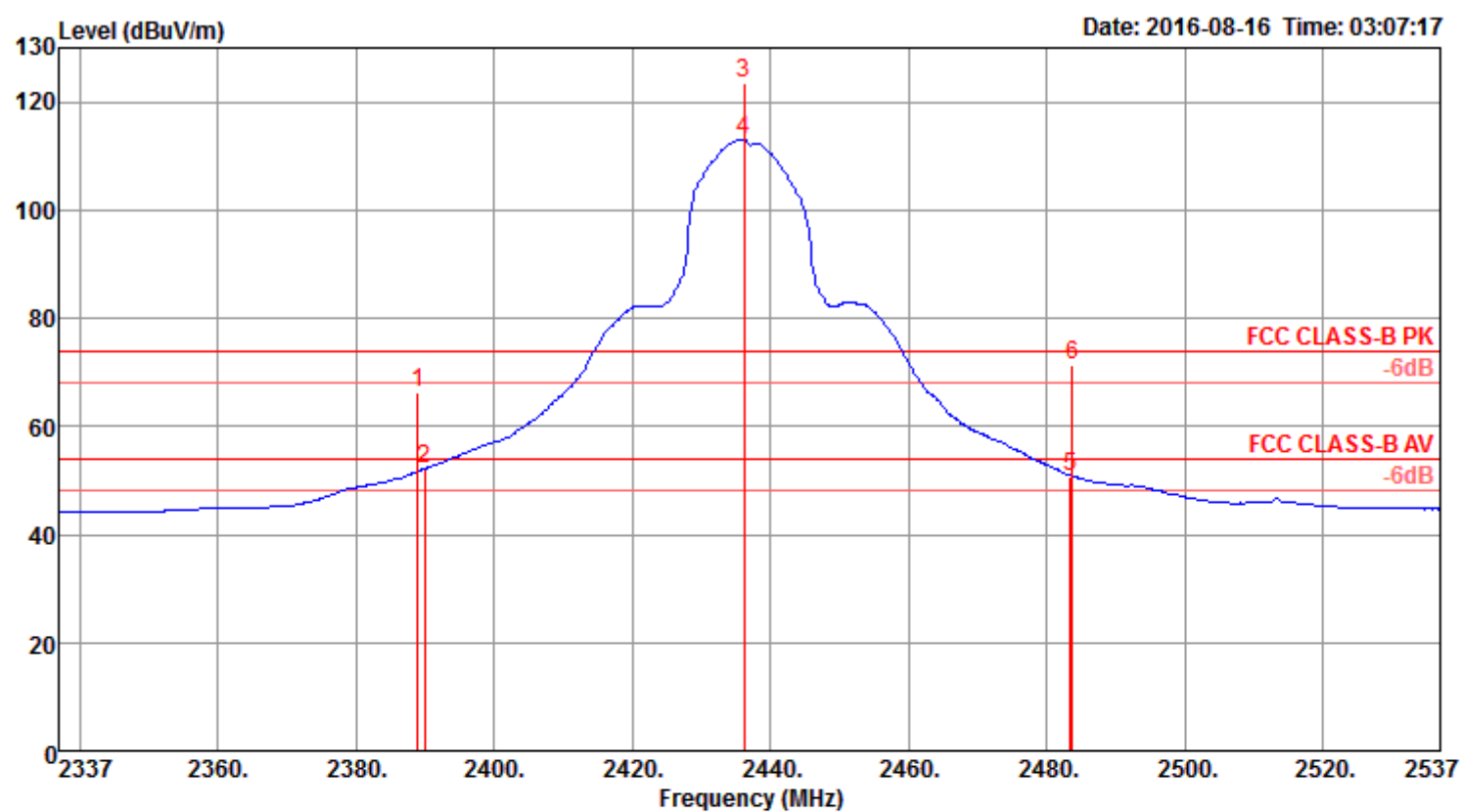
Channel 1



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.60	73.68	74.00	-0.32	41.13	4.53	28.02	0.00	183	1 Peak	HORIZONTAL
2	2390.00	53.90	54.00	-0.10	21.35	4.53	28.02	0.00	183	1 Average	HORIZONTAL
3	2410.80	118.05			85.49	4.56	28.00	0.00	183	1 Peak	HORIZONTAL
4	2411.20	107.74			75.18	4.57	27.99	0.00	183	1 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

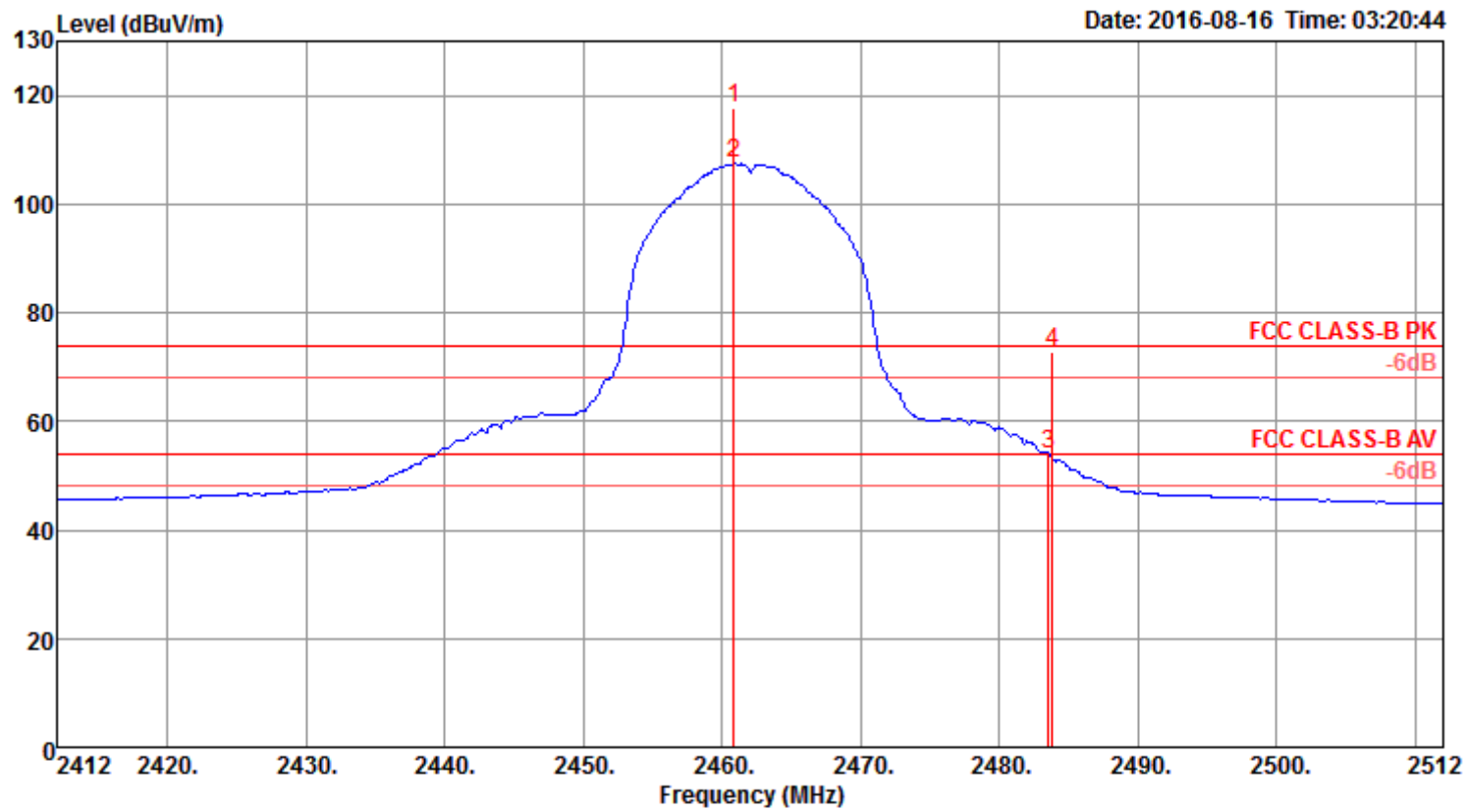
Channel 6



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2389.00	66.23	74.00	-7.77	33.68	4.53	28.02	0.00	154	0	Peak	HORIZONTAL
2	2390.00	52.20	54.00	-1.80	19.65	4.53	28.02	0.00	154	0	Average	HORIZONTAL
3	2436.20	123.32			90.75	4.60	27.97	0.00	154	0	Peak	HORIZONTAL
4	2436.20	113.04			80.47	4.60	27.97	0.00	154	0	Average	HORIZONTAL
5	2483.50	50.87	54.00	-3.13	18.27	4.68	27.92	0.00	154	0	Average	HORIZONTAL
6	2483.80	71.31	74.00	-2.69	38.71	4.68	27.92	0.00	154	0	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11



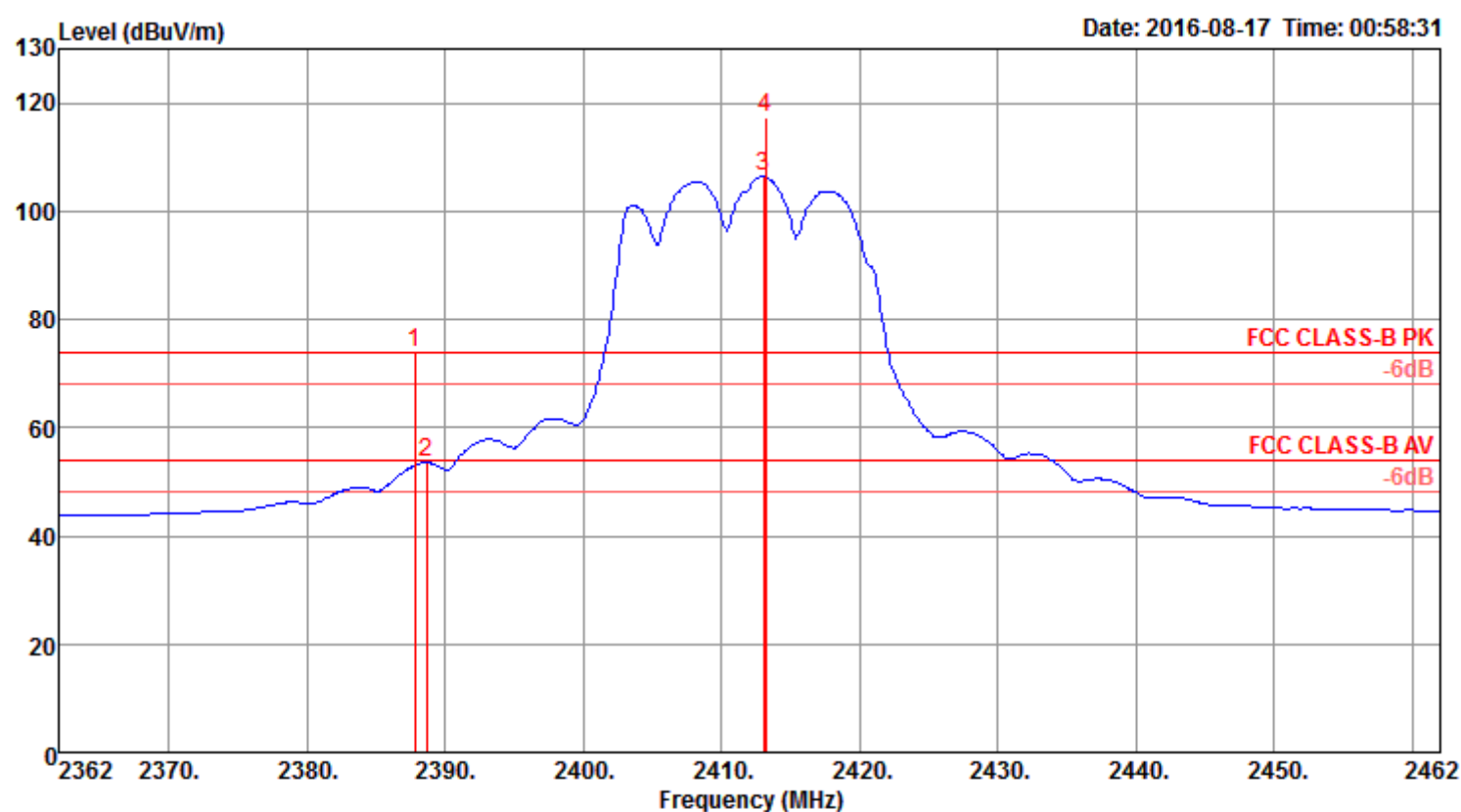
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2460.80	117.71			85.13	4.64	27.94	0.00	176	2 Peak	HORIZONTAL
2	2460.80	107.39			74.81	4.64	27.94	0.00	176	2 Average	HORIZONTAL
3	2483.50	53.91	54.00	-0.09	21.31	4.68	27.92	0.00	176	2 Average	HORIZONTAL
4	2483.80	72.76	74.00	-1.24	40.16	4.68	27.92	0.00	176	2 Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Configurations

IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4

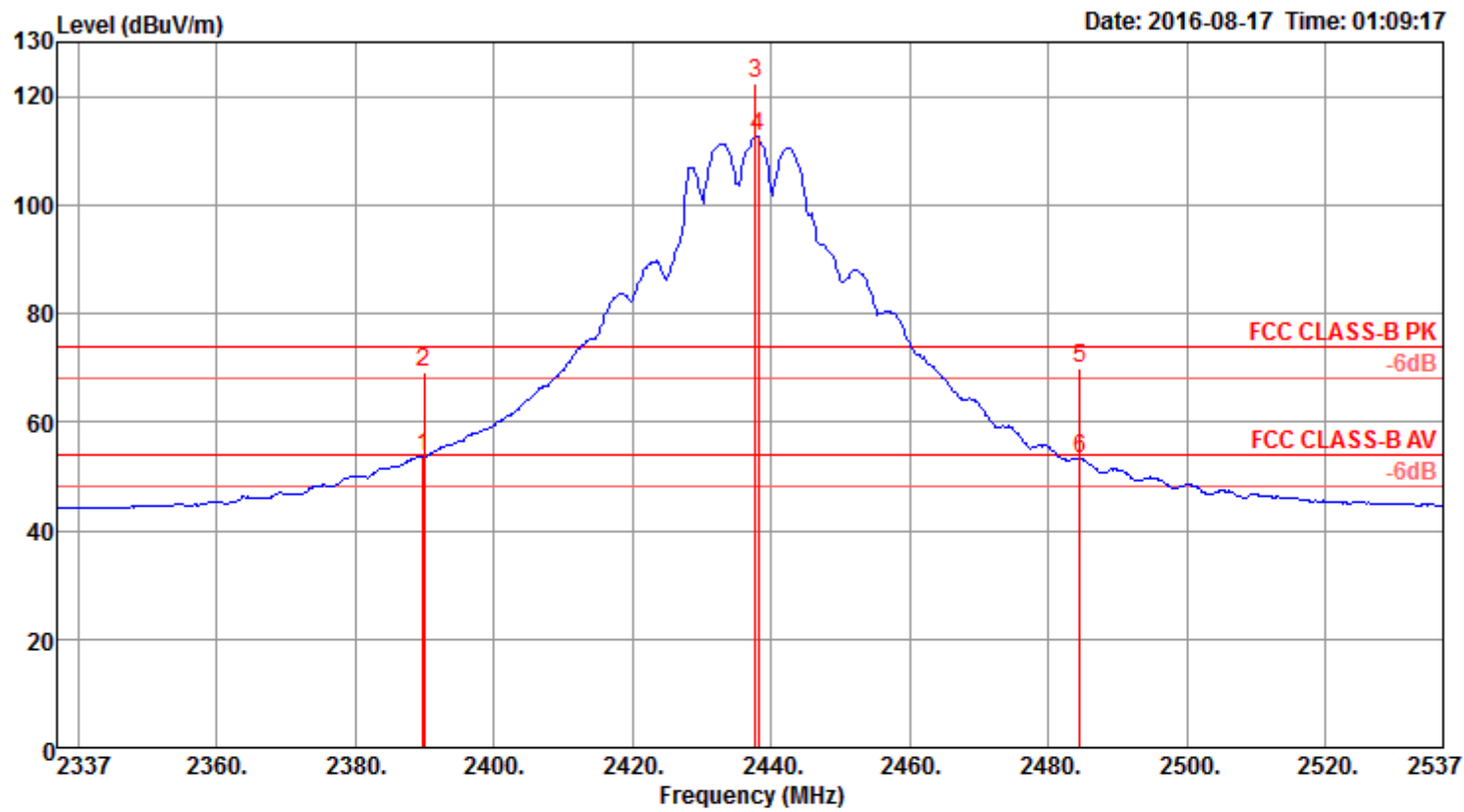
Channel 1



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2387.80	73.84	74.00	-0.16	41.92	3.90	28.02	0.00	229	352	Peak
2	2388.60	53.56	54.00	-0.44	21.64	3.90	28.02	0.00	229	352	Average
3	2413.00	106.44			74.51	3.94	27.99	0.00	229	352	Average
4	2413.20	117.24			85.31	3.94	27.99	0.00	229	352	Peak

Item 3, 4 are the fundamental frequency at 2412 MHz.

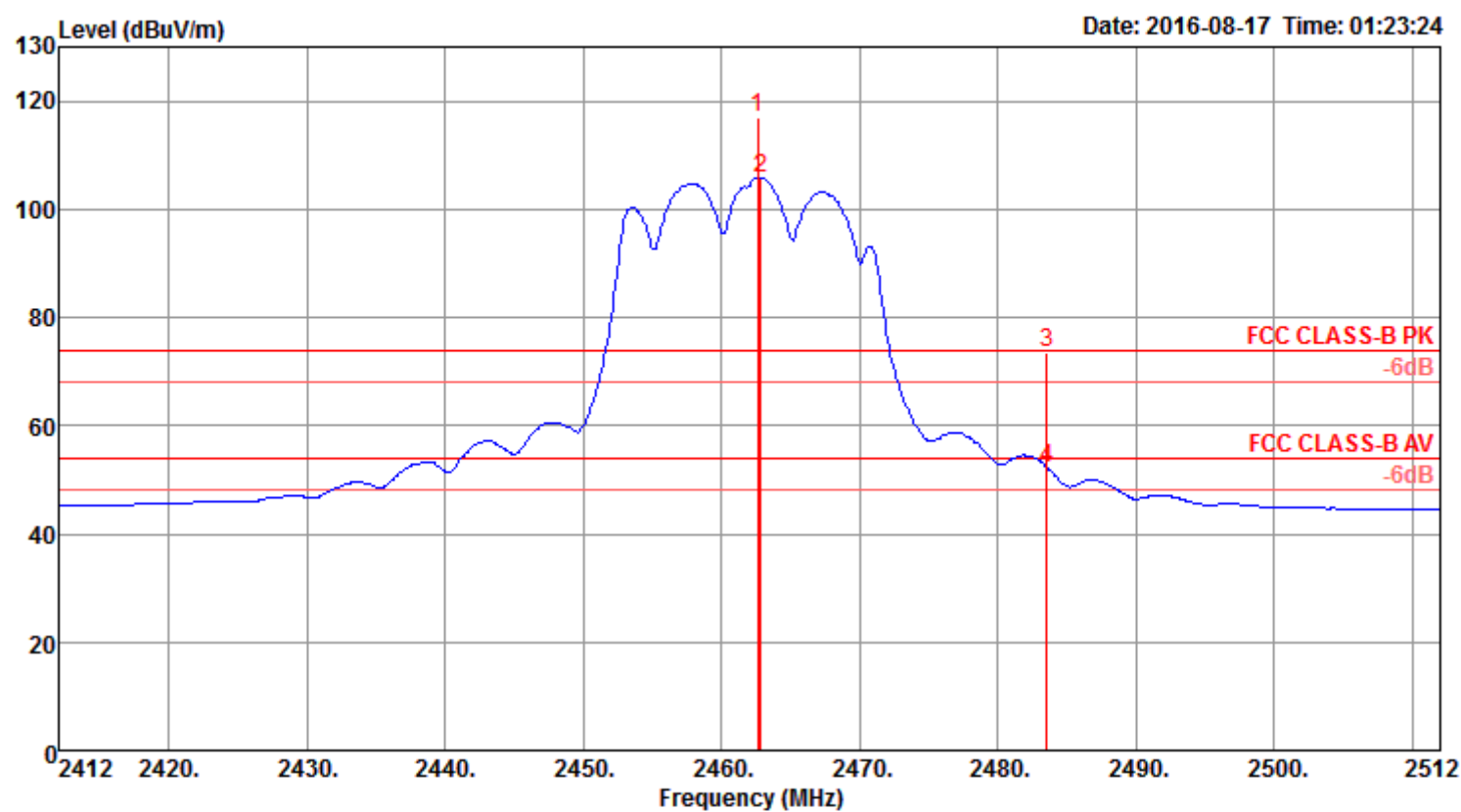
Channel 6



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.80	53.75	54.00	-0.25	21.83	3.90	28.02	0.00	139	354	Average
2	2390.00	69.05	74.00	-4.95	37.13	3.90	28.02	0.00	139	354	Peak
3	2437.80	122.39			90.45	3.97	27.97	0.00	139	354	Peak
4	2438.20	112.52			80.58	3.97	27.97	0.00	139	354	Average
5	2484.60	69.96	74.00	-4.04	38.00	4.04	27.92	0.00	139	354	Peak
6	2484.60	53.28	54.00	-0.72	21.32	4.04	27.92	0.00	139	354	Average

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

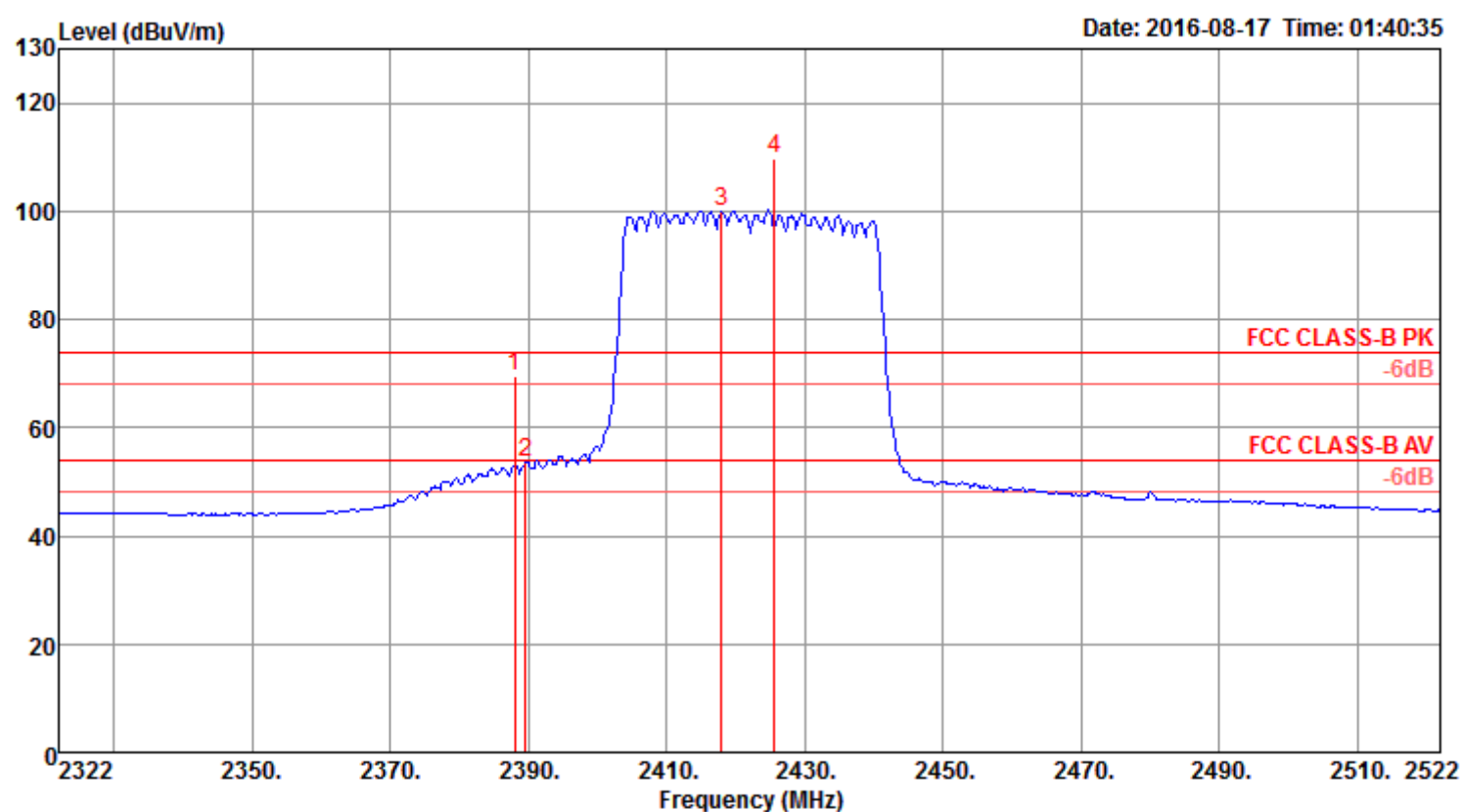


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2462.60	116.89			84.94	4.01	27.94	0.00	274	355	Peak
2	2462.80	105.90			73.95	4.01	27.94	0.00	274	355	Average
3	2483.50	73.48	74.00	-0.52	41.52	4.04	27.92	0.00	274	355	Peak
4	2483.50	52.22	54.00	-1.78	20.26	4.04	27.92	0.00	274	355	Average

Item 1, 2 are the fundamental frequency at 2462 MHz.

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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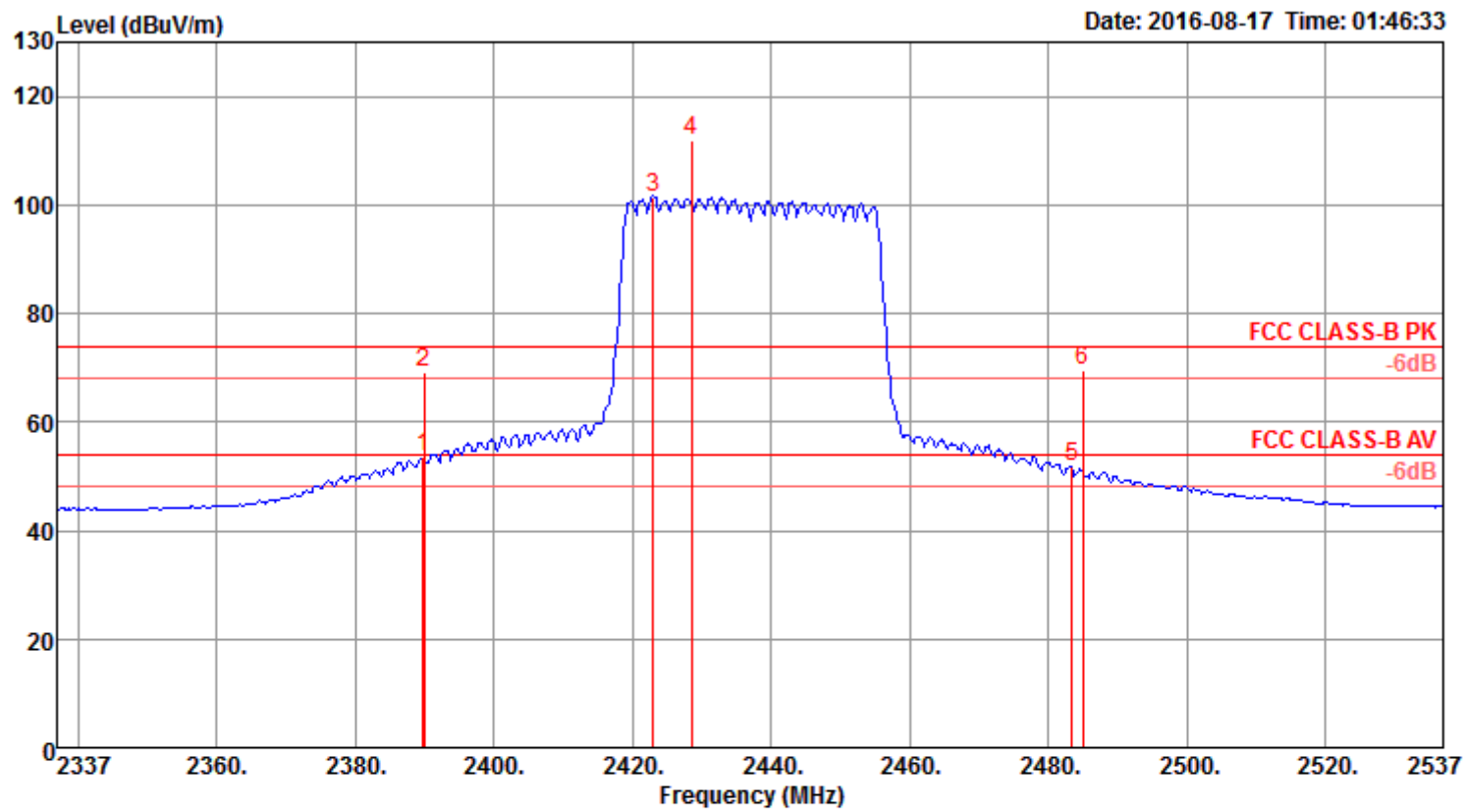
Channel 3



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2388.00	69.54	74.00	-4.46	37.62	3.90	28.02	0.00	178	359	Peak
2	2389.60	53.62	54.00	-0.38	21.70	3.90	28.02	0.00	178	359	Average
3	2418.00	100.10			68.17	3.94	27.99	0.00	178	359	Average
4	2425.60	109.84			77.90	3.96	27.98	0.00	178	359	Peak

Item 3, 4 are the fundamental frequency at 2422 MHz.

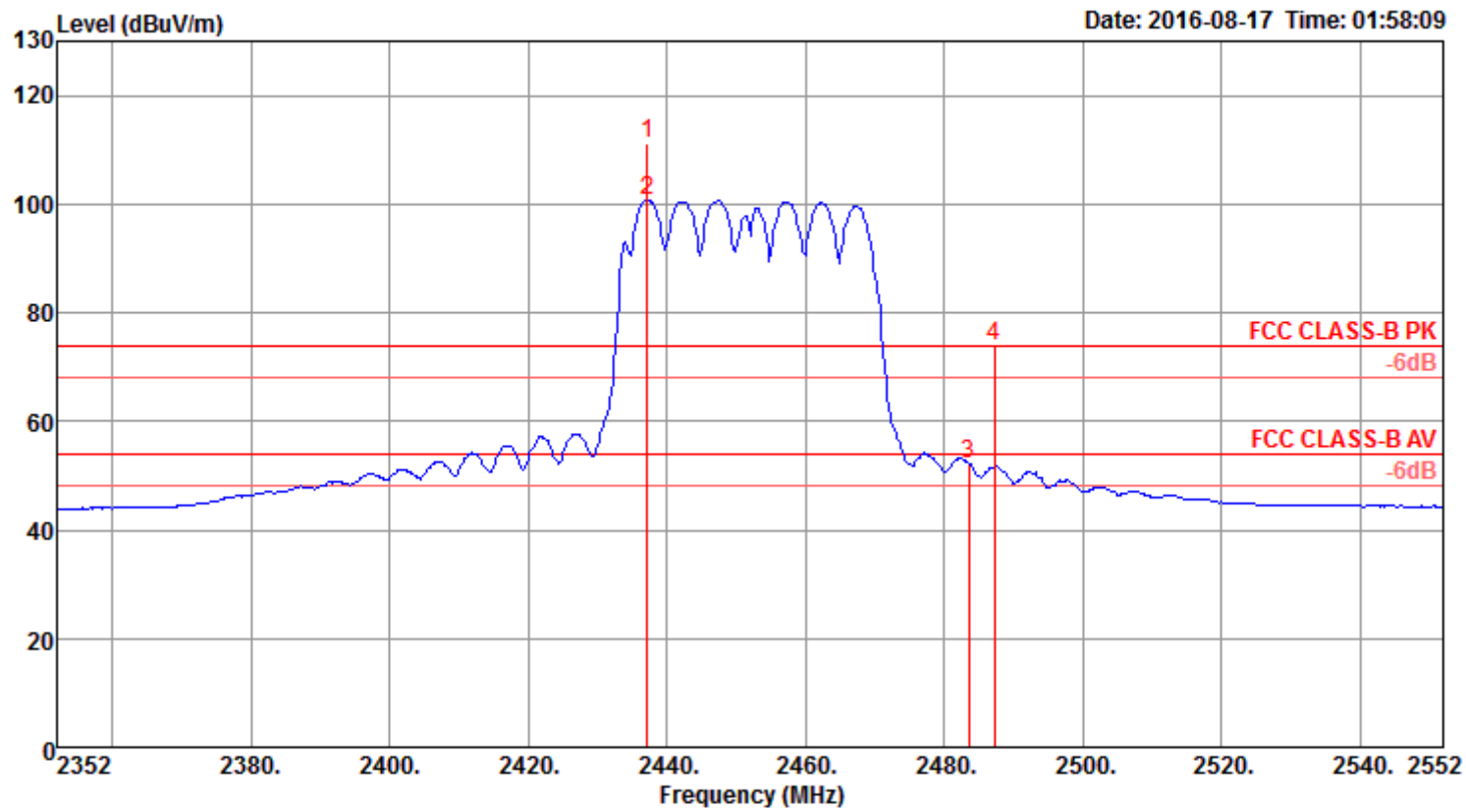
Channel 6



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.80	53.60	54.00	-0.40	21.68	3.90	28.02	0.00	236	360	Average
2	2390.00	69.17	74.00	-4.83	37.25	3.90	28.02	0.00	236	360	Peak
3	2423.00	101.37			69.43	3.95	27.99	0.00	236	360	Average
4	2428.60	111.95			80.01	3.96	27.98	0.00	236	360	Peak
5	2483.50	51.90	54.00	-2.10	19.94	4.04	27.92	0.00	236	360	Average
6	2485.00	69.66	74.00	-4.34	37.70	4.04	27.92	0.00	236	360	Peak

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2437.20	111.20			79.26	3.97	27.97	0.00	148	360	Peak
2	2437.20	100.81			68.87	3.97	27.97	0.00	148	360	Average
3	2483.50	51.99	54.00	-2.01	20.03	4.04	27.92	0.00	148	360	Average
4	2487.20	73.87	74.00	-0.13	41.91	4.04	27.92	0.00	148	360	Peak

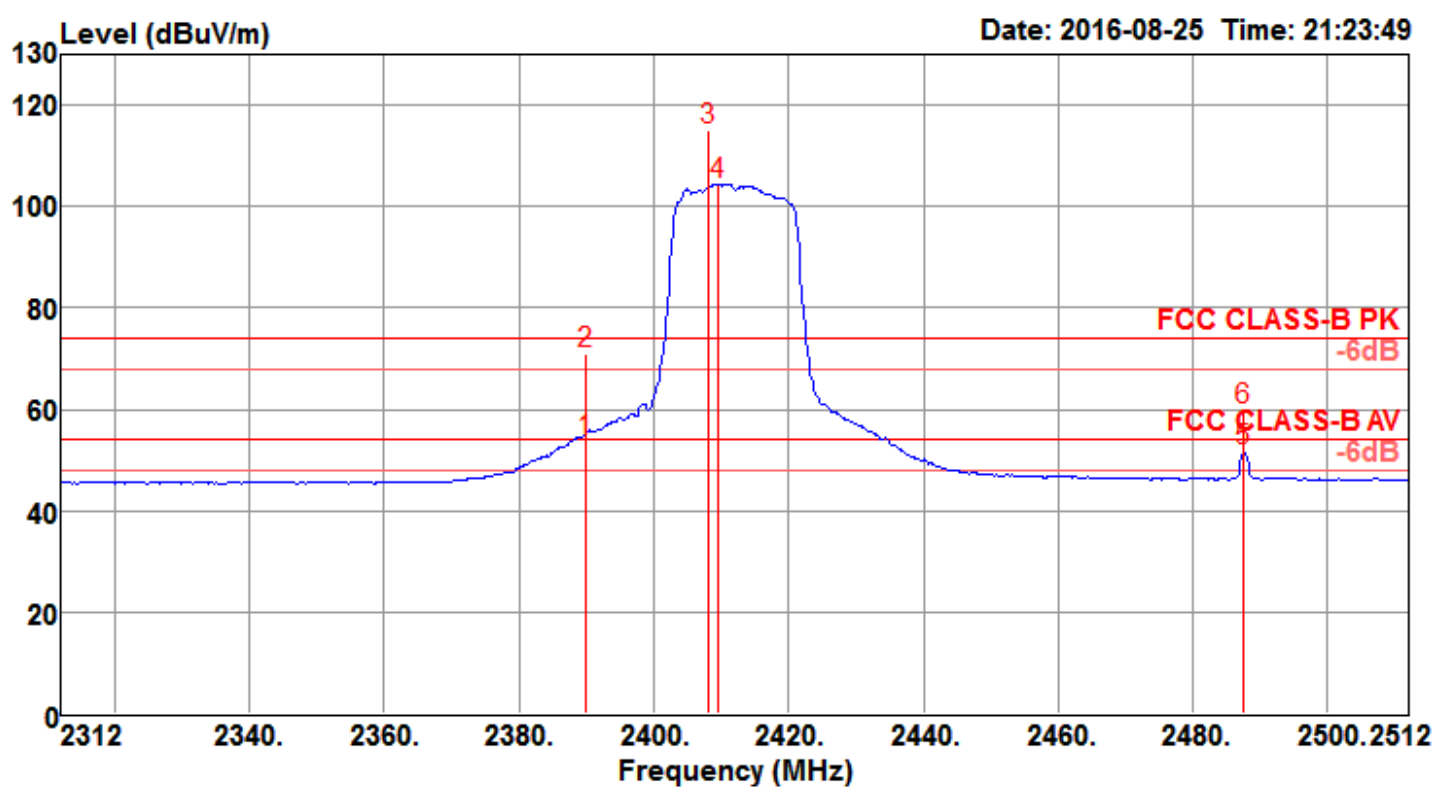
Item 1, 2 are the fundamental frequency at 2452 MHz.

<For Beamforming Mode>

Configurations

IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 + Chain 4

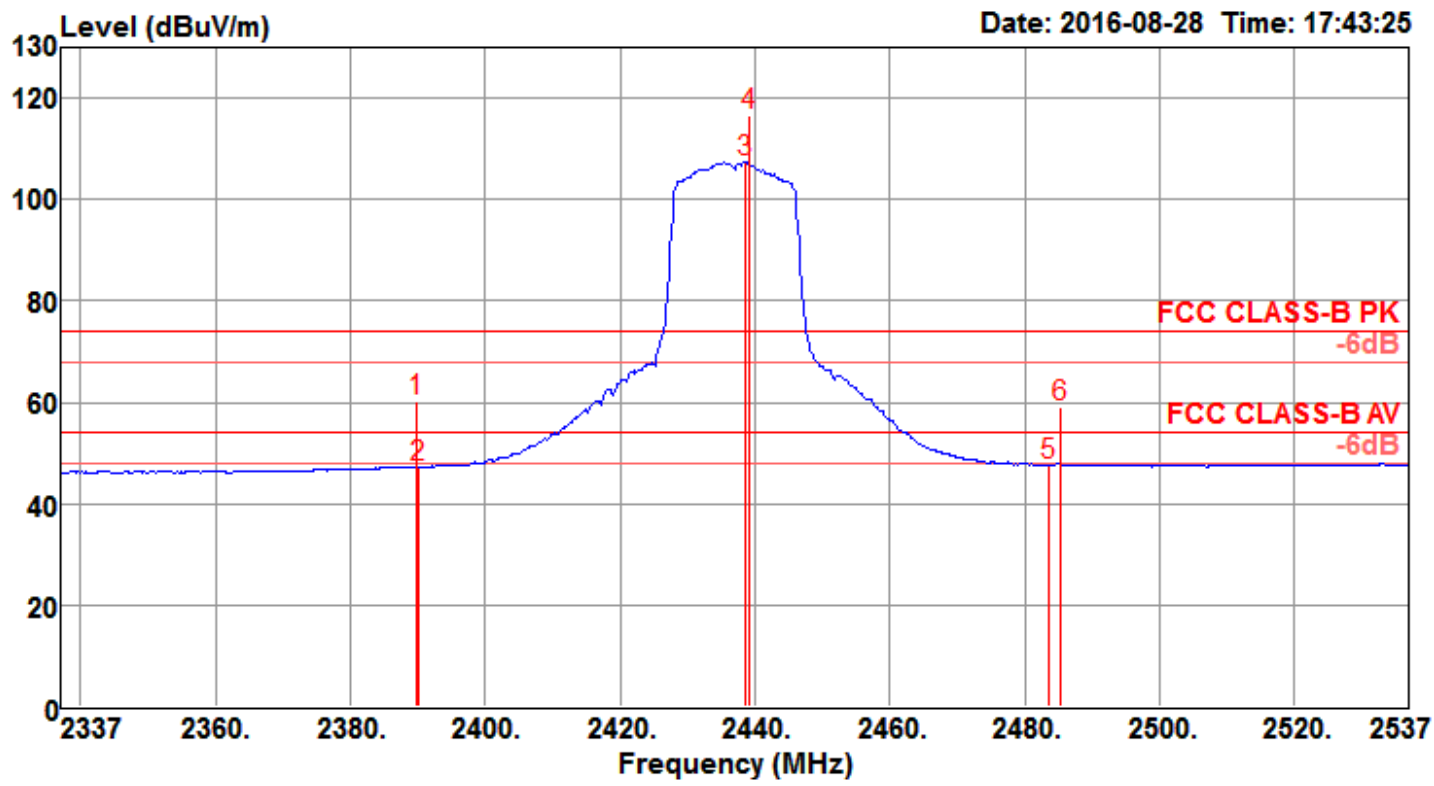
Channel 1



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor			
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	53.52	54.00	-0.48	20.41	4.54	28.57	0.00	201	360	Average
2	2390.00	71.00	74.00	-3.00	37.89	4.54	28.57	0.00	201	360	Peak
3 @	2408.00	115.06			81.88	4.57	28.61	0.00	201	360	Peak
4 @	2409.60	104.25			71.07	4.57	28.61	0.00	201	360	Average
5	2487.60	51.79	54.00	-2.21	18.39	4.63	28.77	0.00	201	360	Average
6	2487.60	59.99	74.00	-14.01	26.59	4.63	28.77	0.00	201	360	Peak

Item 3, 4 are the fundamental frequency at 2412 MHz.

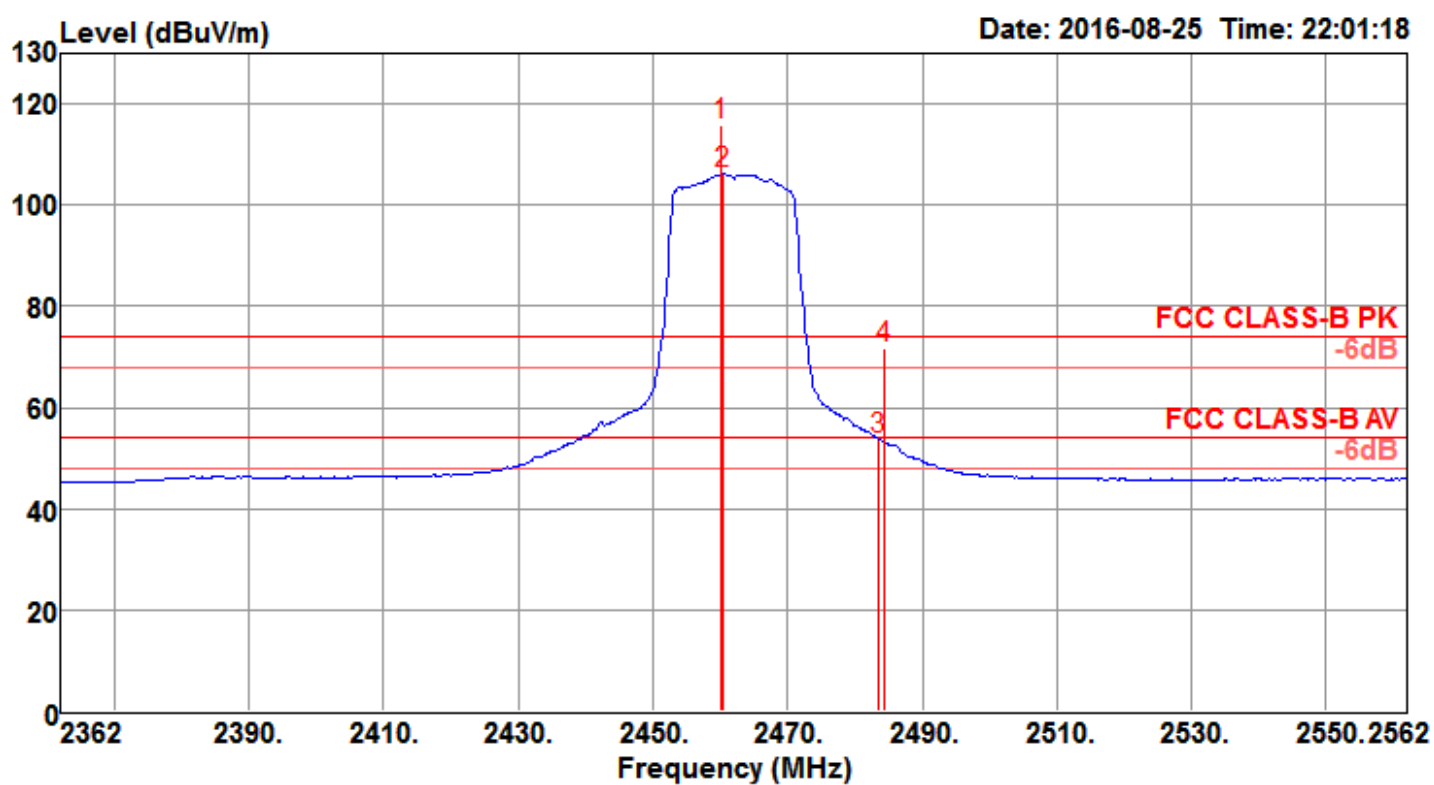
Channel 6



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor			
			dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.68	60.06	74.00	-13.94	26.95	4.54	28.57	0.00	206	358	Peak
2	2390.00	47.14	54.00	-6.86	14.03	4.54	28.57	0.00	206	358	Average
3 @	2438.60	107.46			74.20	4.59	28.67	0.00	206	358	Peak
4 @	2439.24	116.57			83.28	4.60	28.69	0.00	206	358	Peak
5	2483.50	47.64	54.00	-6.36	14.24	4.63	28.77	0.00	206	358	Average
6	2485.42	59.15	74.00	-14.85	25.75	4.63	28.77	0.00	206	358	Peak

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11



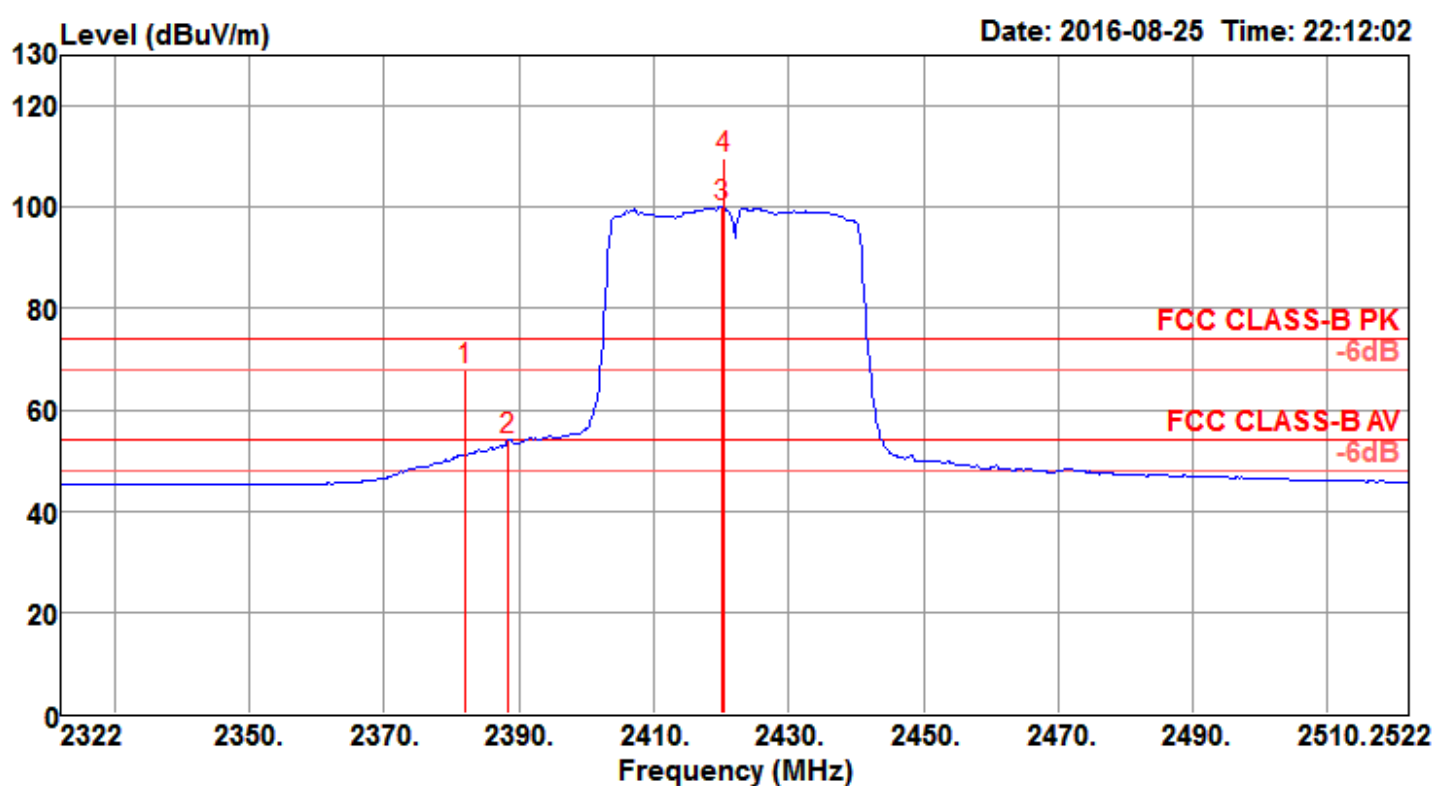
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1 @	2460.00	115.92			82.60	4.61	28.71	0.00	230	2 Peak	VERTICAL
2 @	2460.40	106.14			72.82	4.61	28.71	0.00	230	2 Average	VERTICAL
3	2483.50	53.71	54.00	-0.29	20.31	4.63	28.77	0.00	230	2 Average	VERTICAL
4	2484.40	71.83	74.00	-2.17	38.43	4.63	28.77	0.00	230	2 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Configurations

IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 + Chain 4

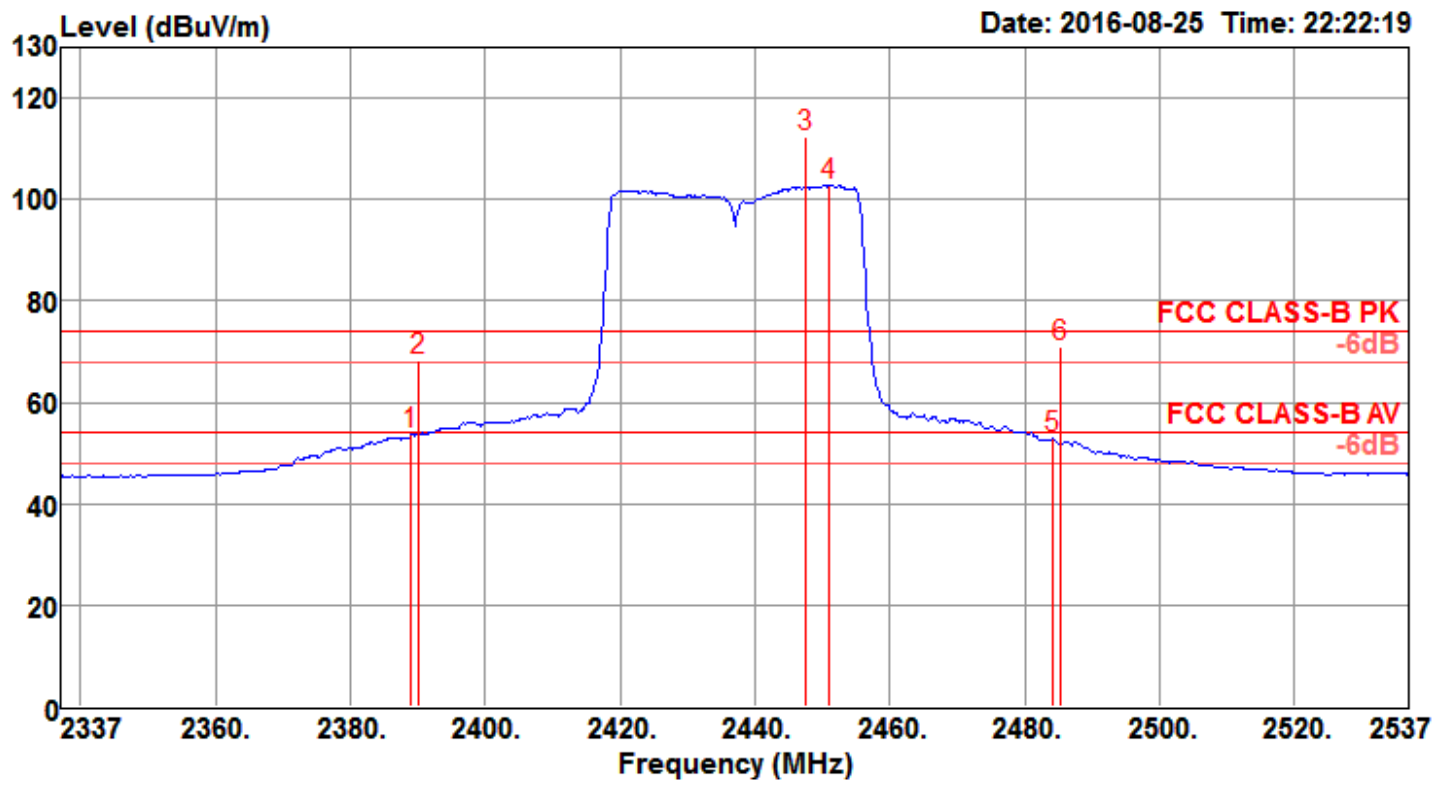
Channel 3



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	cm	deg	
1	2382.00	67.76	74.00	-6.24	34.66	4.54	28.56	0.00	242	2 Peak	VERTICAL
2	2388.40	53.91	54.00	-0.09	20.80	4.54	28.57	0.00	242	2 Average	VERTICAL
3 @	2420.00	100.03			66.81	4.58	28.64	0.00	242	2 Average	VERTICAL
4 @	2420.40	109.84			76.62	4.58	28.64	0.00	242	2 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

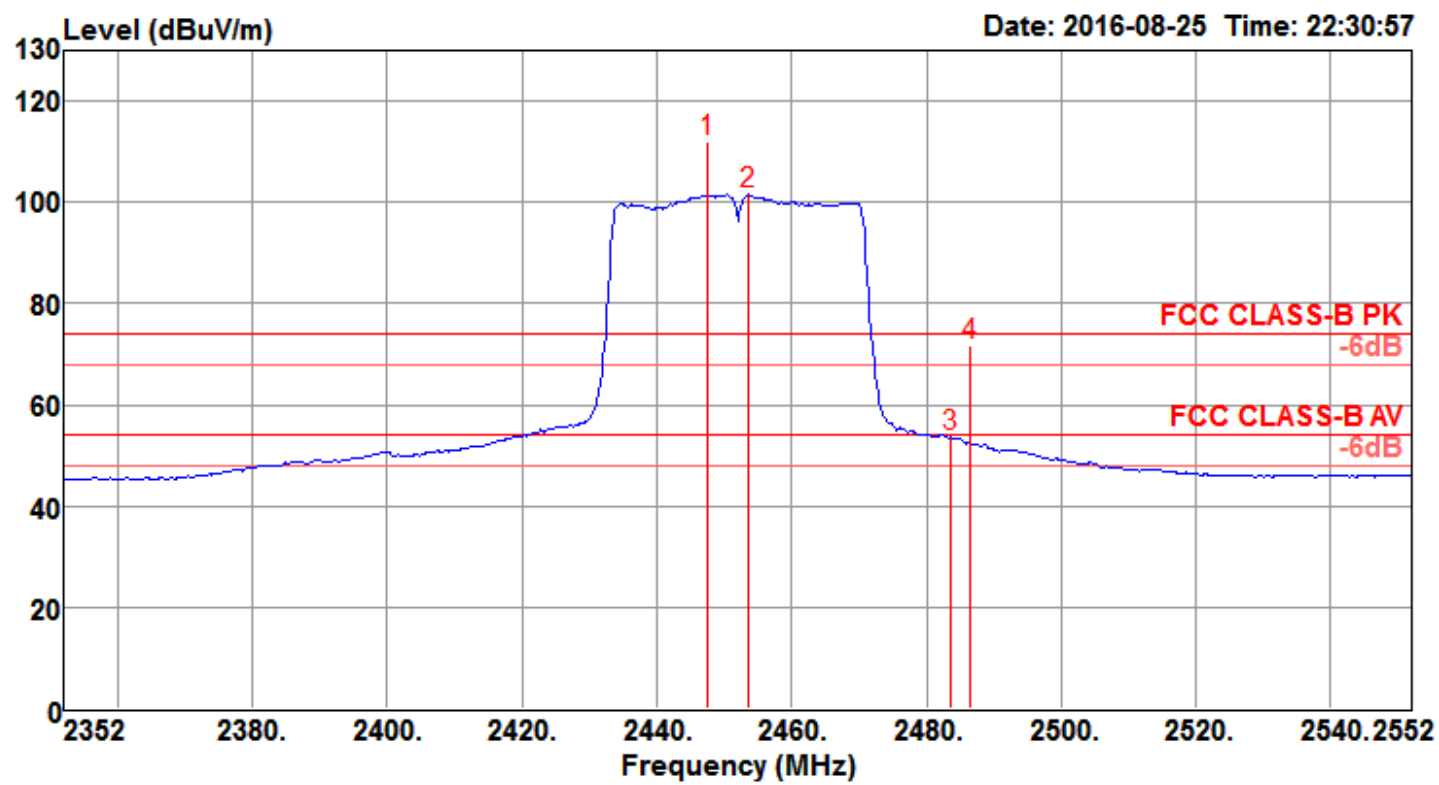
Channel 6



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.00	53.64	54.00	-0.36	20.53	4.54	28.57	0.00	223	3 Average	VERTICAL
2	2390.00	68.39	74.00	-5.61	35.28	4.54	28.57	0.00	223	3 Peak	VERTICAL
3 @	2447.40	112.50			79.20	4.60	28.70	0.00	223	3 Peak	VERTICAL
4 @	2451.00	102.90			69.60	4.60	28.70	0.00	223	3 Average	VERTICAL
5	2484.20	52.80	54.00	-1.20	19.40	4.63	28.77	0.00	223	3 Average	VERTICAL
6	2485.40	71.06	74.00	-2.94	37.66	4.63	28.77	0.00	223	3 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1 @	2447.60	111.92			78.62	4.60	28.70	0.00	227	356	Peak
2 @	2453.60	101.56			68.24	4.61	28.71	0.00	227	356	Average
3	2483.50	53.52	54.00	-0.48	20.12	4.63	28.77	0.00	227	356	Average
4	2486.40	71.73	74.00	-2.27	38.33	4.63	28.77	0.00	227	356	Peak

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.