



NCC Test Report

Equipment : Wireless Access Point Radio module
Brand Name : riverbed
Model No. : XDR241
Standard : LP0002 Section 4.7 (2016-08-23)
Operating Band : 5150 MHz – 5250 MHz
5725 MHz – 5850 MHz
Applicant : RIVERBED TECHNOLOGY INC
680 Folsom Street San Francisco, California 94107-1397,
USA
Manufacturer : RIVERBED TECHNOLOGY INC
680 Folsom Street San Francisco, California 94107-1397,
USA
Function : ☐ Outdoor; ☒ Indoor; ☐ Fixed P2P
☐ Client

The product sample received on Jul. 22, 2016 and completely tested on Jan. 12, 2018. 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.

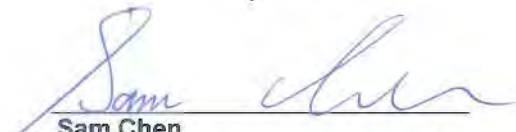

Sam Chen
SPORTON INTERNATIONAL INC.



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Summary of Test Result

Conformance Test Specifications			
Report Clause	Ref. Std. Clause	Description	Result
1.1.2	4.7.8	Antenna Requirement	Complied
3.1	2.3	AC Power-line Conducted Emissions	Complied
3.2	4.7.3	Emission Bandwidth	Complied
3.3	4.7.3	Maximum Conducted Output Power	Complied
3.4	4.7.3	Peak Power Spectral Density	Complied
3.5	4.7.4	Unwanted Emissions	Complied
3.6	-	Frequency Stability	Complied

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

The EUT was installed to the Wireless Access Point (brand: riverbed / 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.



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1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.2G	11a	20	4
5.8G	11a	20	4
5.2G	HT20	20	4
5.8G	HT20	20	4
5.2G	HT20,BF	20	4
5.8G	HT20,BF	20	4
5.2G	VHT20	20	4
5.8G	VHT20	20	4
5.2G	VHT20,BF	20	4
5.8G	VHT20,BF	20	4
5.2G	HT40	40	4
5.8G	HT40	40	4
5.2G	HT40,BF	40	4
5.8G	HT40,BF	40	4
5.2G	VHT40	40	4
5.8G	VHT40	40	4
5.2G	VHT40,BF	40	4
5.8G	VHT40,BF	40	4
5.2G	VHT80	80	4
5.8G	VHT80	80	4
5.2G	VHT80,BF	80	4
5.8G	VHT80,BF	80	4

Note:

- ♦ 5.2G/5.2G-I(IC) is the 5.2GHz Band (5.15-5.25GHz).
- ♦ 5.8G/5.8G-I(IC) is the 5.8GHz Band (5.725-5.850GHz).
- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 and VHT80 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)
1	EMBEDDED WORKS	EW2458-02	Dipole Antenna	Reversed-SMA	3
Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
2	Laird	PDQ24499	Directional Antenna	Reversed-SMA	9.4

Note: The EUT has two type antennas.

The system will install four modules (Radio 1(Model Name: XDR240), Radio 2~ Radio 4 (Model Name: XDR241)).

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

Each Radio could connect to 4 chains.

After evaluated, the Radio 2 was selected to test and record in this report.

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) $\geq 1/T$
11a	0.99	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	0.91	3.78m	300
VHT40	0.981	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
VHT40,BF	0.61	3.64m	300
VHT80	0.98	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
VHT80,BF	0.50	3.4m	300

1.1.4 EUT Operational Condition

EUT Power Type	From host system		
Beamforming Function	☒	With beamforming For 802.11 n/ac in 5GHz.	☐ Without beamforming

1.2 Testing Applied Standards

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

- ♦ LP0002 Section 4.7 (2016-08-23)
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01
- ♦ FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Satoshi Yang	25°C / 61%	Aug. 21, 2016 Sep. 05, 2016
Radiated (Other tests)	03CH01-CB	Gino Huang/ Nyle Chang/ Eason Chen/ Steven Liang/ Peter Wu	26°C / 59%	Jul. 22, 2016 Sep. 09, 2016
Radiated (Unintentional – CRX) and Radiated < 1GHz (Intentional – CTX)	03CH01-CB	Eddie Weng	26°C / 59%	Jan. 08, 2018 Jan. 12, 2018
AC Conduction (Intentional – CTX)	CO01-CB	Deven Huang	24°C / 62%	Sep. 09, 2016
AC Conduction (Unintentional – CRX)	CO01-CB	Peter Wu	23°C / 59%	Dec. 26, 2017

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
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
5.2G	11a	20	1	4	5180	L	70
5.2G	11a	20	1	4	5200	M	82
5.2G	11a	20	1	4	5240	H	75
5.8G	11a	20	1	4	5745	L	87
5.8G	11a	20	1	4	5785	M	87
5.8G	11a	20	1	4	5825	H	87
5.2G	VHT20	20	1,(M0)	4	5180	L	71
5.2G	VHT20	20	1,(M0)	4	5200	M	84
5.2G	VHT20	20	1,(M0)	4	5240	H	74
5.8G	VHT20	20	1,(M0)	4	5745	L	85
5.8G	VHT20	20	1,(M0)	4	5785	M	87
5.8G	VHT20	20	1,(M0)	4	5825	H	86
5.2G	VHT40	40	1,(M0)	4	5190	L	52
5.2G	VHT40	40	1,(M0)	4	5230	H	72
5.8G	VHT40	40	1,(M0)	4	5755	L	82
5.8G	VHT40	40	1,(M0)	4	5795	H	87
5.2G	VHT80	80	1,(M0)	4	5210	S	48
5.8G	VHT80	80	1,(M0)	4	5775	S	66
5.2G	VHT20,BF	20	1,(M0)	4	5180	L	71
5.2G	VHT20,BF	20	1,(M0)	4	5200	M	81
5.2G	VHT20,BF	20	1,(M0)	4	5240	H	78
5.8G	VHT20,BF	20	1,(M0)	4	5745	L	82
5.8G	VHT20,BF	20	1,(M0)	4	5785	M	82
5.8G	VHT20,BF	20	1,(M0)	4	5825	H	82
5.2G	VHT40,BF	40	1,(M0)	4	5190	L	54
5.2G	VHT40,BF	40	1,(M0)	4	5230	H	73
5.8G	VHT40,BF	40	1,(M0)	4	5755	L	82
5.8G	VHT40,BF	40	1,(M0)	4	5795	H	83
5.2G	VHT80,BF	80	1,(M0)	4	5210	S	51
5.8G	VHT80,BF	80	1,(M0)	4	5775	S	68

For Directional Antenna:

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
5.2G	11a	20	1	4	5180	L	53
5.2G	11a	20	1	4	5200	M	53
5.2G	11a	20	1	4	5240	H	53
5.8G	11a	20	1	4	5745	L	81
5.8G	11a	20	1	4	5785	M	81
5.8G	11a	20	1	4	5825	H	82
5.2G	VHT20	20	1,(M0)	4	5180	L	55
5.2G	VHT20	20	1,(M0)	4	5200	M	55
5.2G	VHT20	20	1,(M0)	4	5240	H	55
5.8G	VHT20	20	1,(M0)	4	5745	L	83
5.8G	VHT20	20	1,(M0)	4	5785	M	83
5.8G	VHT20	20	1,(M0)	4	5825	H	84
5.2G	VHT40	40	1,(M0)	4	5190	L	41
5.2G	VHT40	40	1,(M0)	4	5230	H	56
5.8G	VHT40	40	1,(M0)	4	5755	L	78
5.8G	VHT40	40	1,(M0)	4	5795	H	83
5.2G	VHT80	80	1,(M0)	4	5210	S	38
5.8G	VHT80	80	1,(M0)	4	5775	S	60
5.2G	VHT20,BF	20	1,(M0)	4	5180	L	53
5.2G	VHT20,BF	20	1,(M0)	4	5200	M	53
5.2G	VHT20,BF	20	1,(M0)	4	5240	H	53
5.8G	VHT20,BF	20	1,(M0)	4	5745	L	49
5.8G	VHT20,BF	20	1,(M0)	4	5785	M	49
5.8G	VHT20,BF	20	1,(M0)	4	5825	H	50
5.2G	VHT40,BF	40	1,(M0)	4	5190	L	45
5.2G	VHT40,BF	40	1,(M0)	4	5230	H	50
5.8G	VHT40,BF	40	1,(M0)	4	5755	L	50
5.8G	VHT40,BF	40	1,(M0)	4	5795	H	50
5.2G	VHT80,BF	80	1,(M0)	4	5210	S	46
5.8G	VHT80,BF	80	1,(M0)	4	5775	S	50

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 802.11n/ac. 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	Intentional – 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.	
Operating Mode	Unintentional– CRX
1	EUT + Ant.1
2	EUT + Ant.2
For operating mode 1 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Intentional – CTX
1	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
For operating mode 3 is the worst case and it was record in this test report.	

Operating Mode < 1GHz	Unintentional– CRX
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
For operating mode 4 is the worst case and it was record in this test report.	
Operating Mode > 1GHz (1~5th Harmonic)	Unintentional– CRX
1	EUT X axis + Ant.1
2	EUT Y axis + Ant.1
3	EUT Z axis + Ant.1
Mode 2 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 Y axis + Ant.2
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz (1~10th Harmonic)	Intentional – 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 Z axis. So the measurement will follow this same test configuration.	
1	EUT Z axis + Ant.1
2	EUT Z axis + Ant.2

Note: PoE supply the power of EUT. But the PoE is for measurement only, and it would not be marketed.

Equipment	Brand Name	Model Name
PoE	Microsemi	PD-9501-10G/AC
PoE	Motorola	PD-7001G

2.3 EUT Operation during Test

For CTX:

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%

For CRX:

The EUT was programmed to be in continuously Receiving mode.

2.4 Accessories

N/A

2.5 Support Equipment

For Test Site No: CO01-CB / Intentional – CTX and Unintentional– CRX

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

For Test Site No: 03CH01-CB / Intentional – CTX (Below 1GHz) and Unintentional– CRX

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

<For Beamforming Mode>

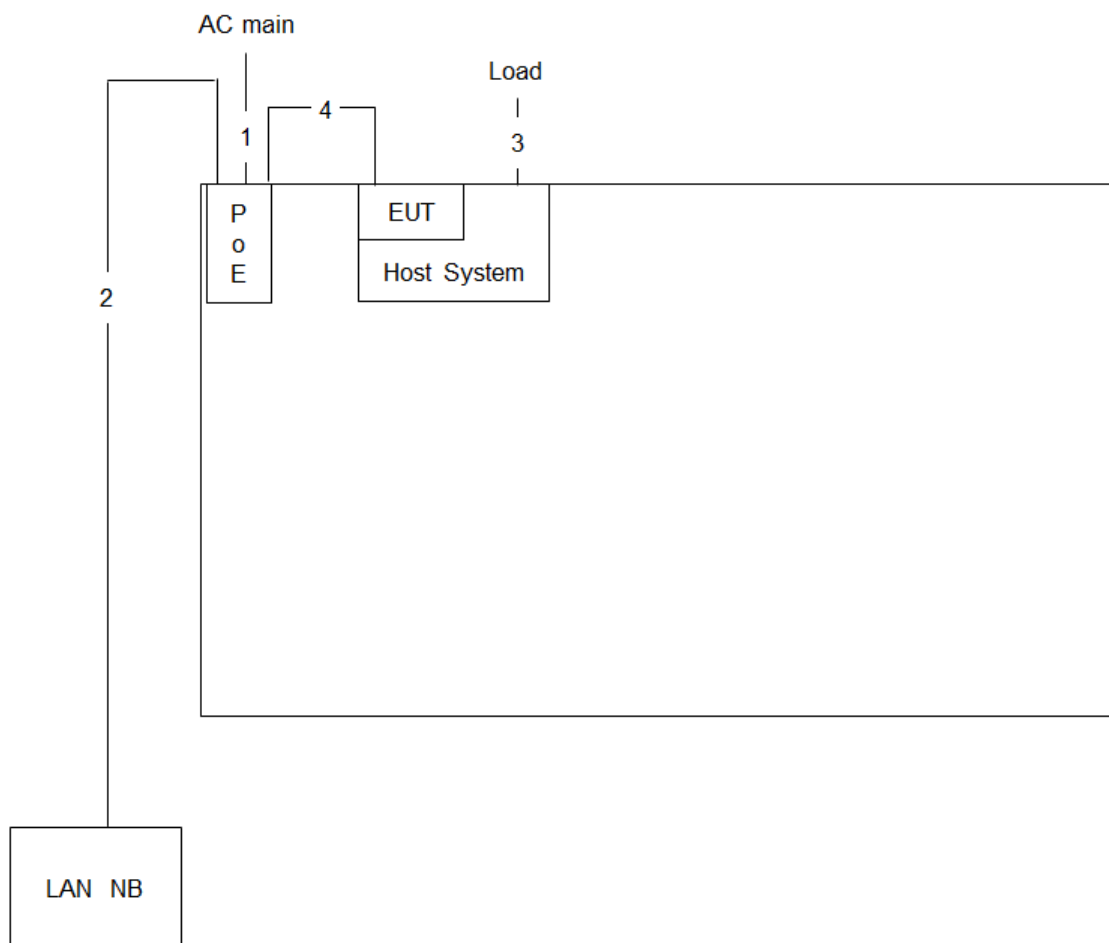
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E4300	DoC
2	WLAN module	Broadcom	Bcm4366	N/A
3	PoE	Motorola	PD-7001G	N/A
4	Host system	riverbed	XA4240	DoC

For Test Site No: TH01-CB

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

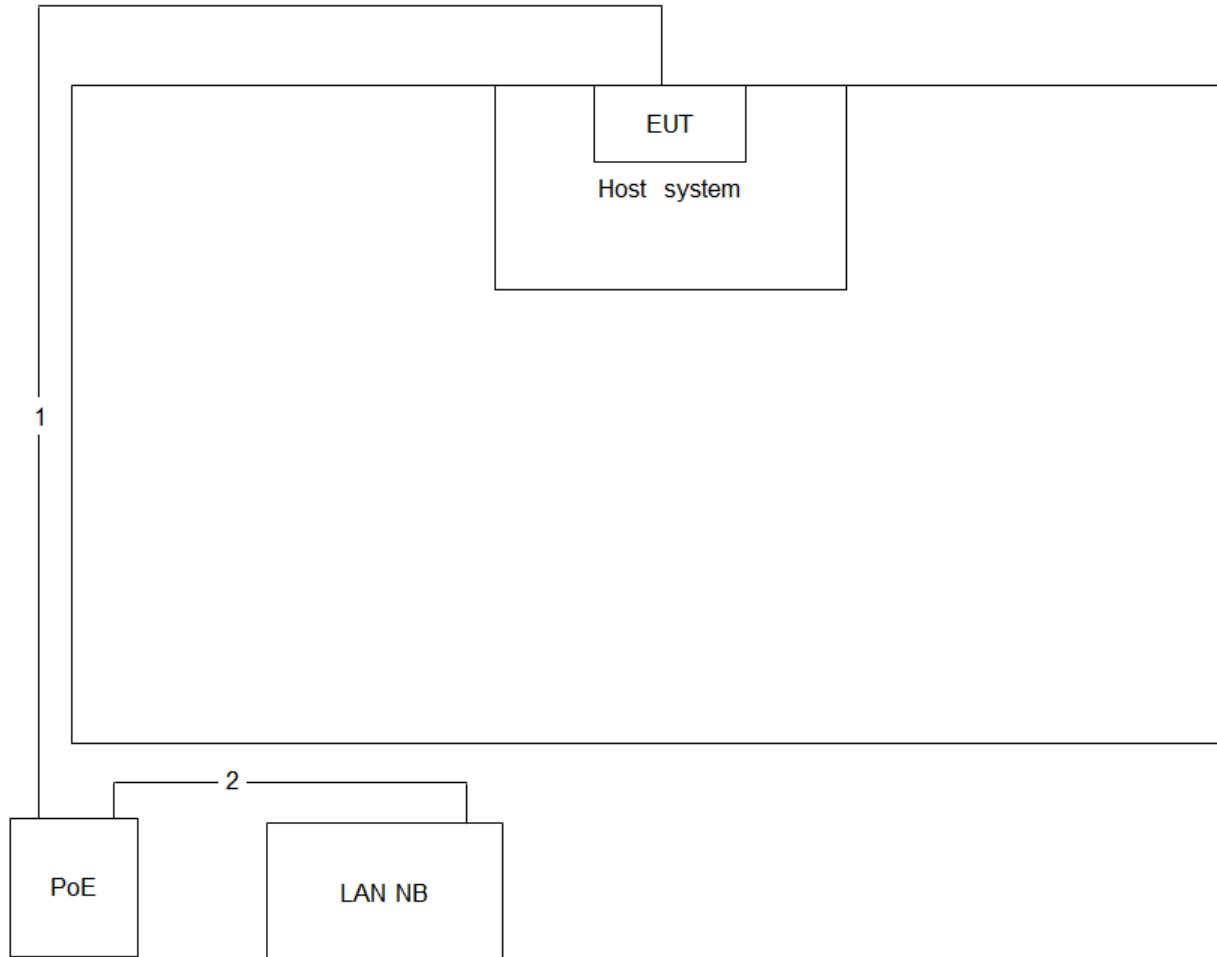
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test / Intentional – CTX and Unintentional– CRX



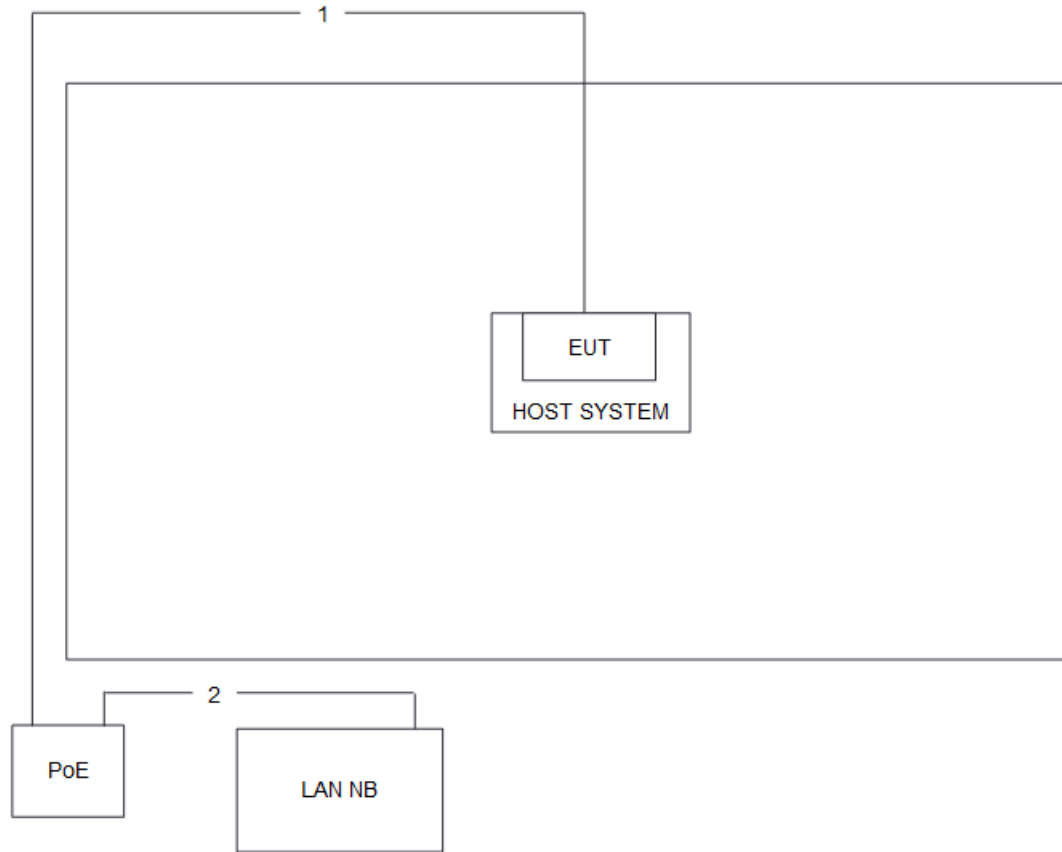
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1m
4	RJ-45 cable	No	1m

**Test Setup Diagram - Radiated Test < 1GHz / Intentional – CTX and Unintentional– CRX and
Radiated Test > 1GHz / Unintentional– CRX**



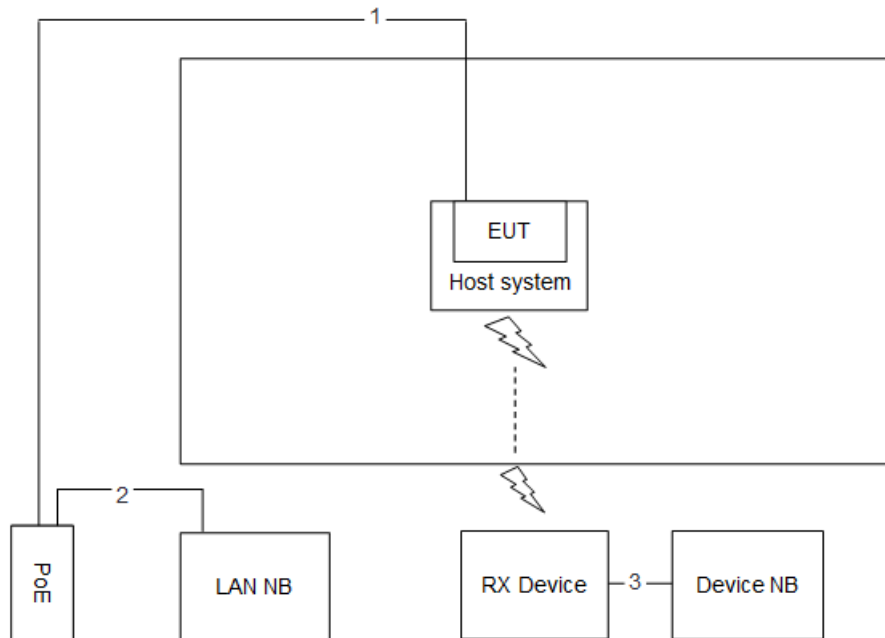
Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz / Intentional – CTX <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 / Intentional – CTX <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.

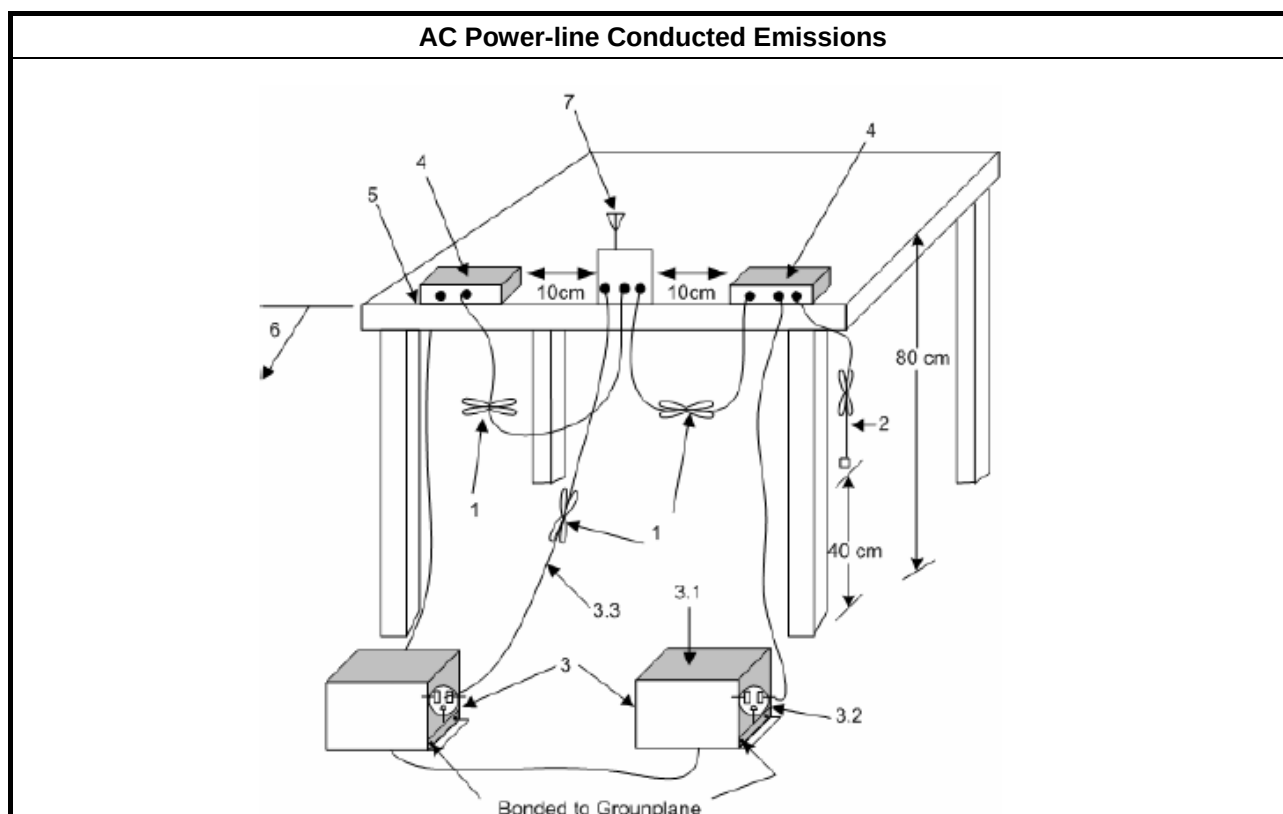
3.1.2 Measuring Instruments

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 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☐	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.
LE-LAN Devices	
☐	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

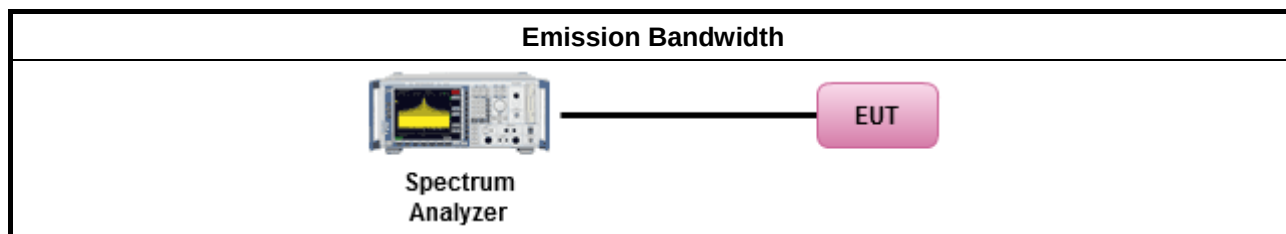
3.2.2 Measuring Instruments

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 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☒	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

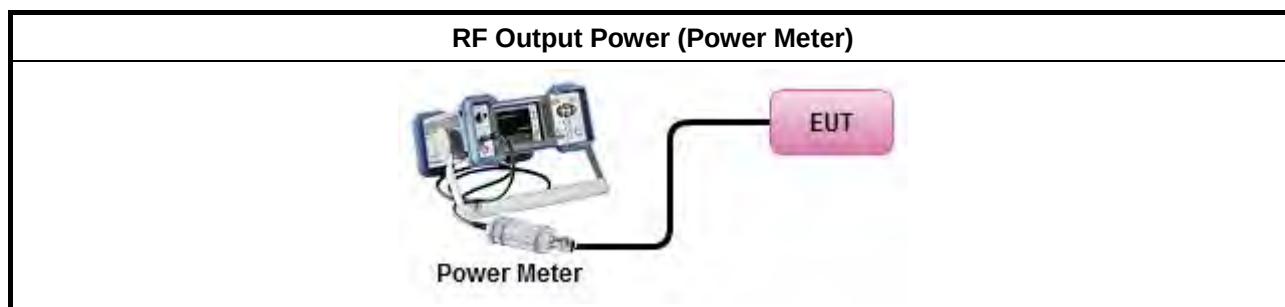
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Conducted Output Power	
	[duty cycle $\geq$ 98% or external video / power trigger]
☐	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty cycle < 98% and average over on/off periods with duty factor
☐	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method PM-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 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☐ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.	
	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

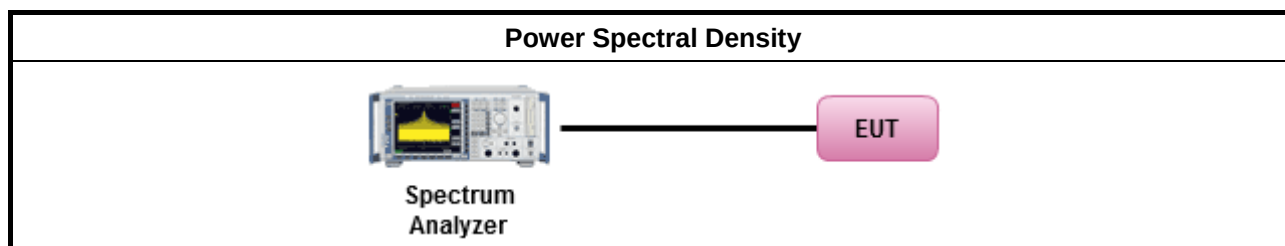
3.4.2 Measuring Instruments

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 shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐ Refer as FCC KDB 789033, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
[duty cycle ≥ 98% or external video / power trigger]	
☒ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).	
☐ Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)	
duty cycle < 98% and average over on/off periods with duty factor	
☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).	
☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with 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.	
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz 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.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note 1: 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).

3.5.2 Measuring Instruments

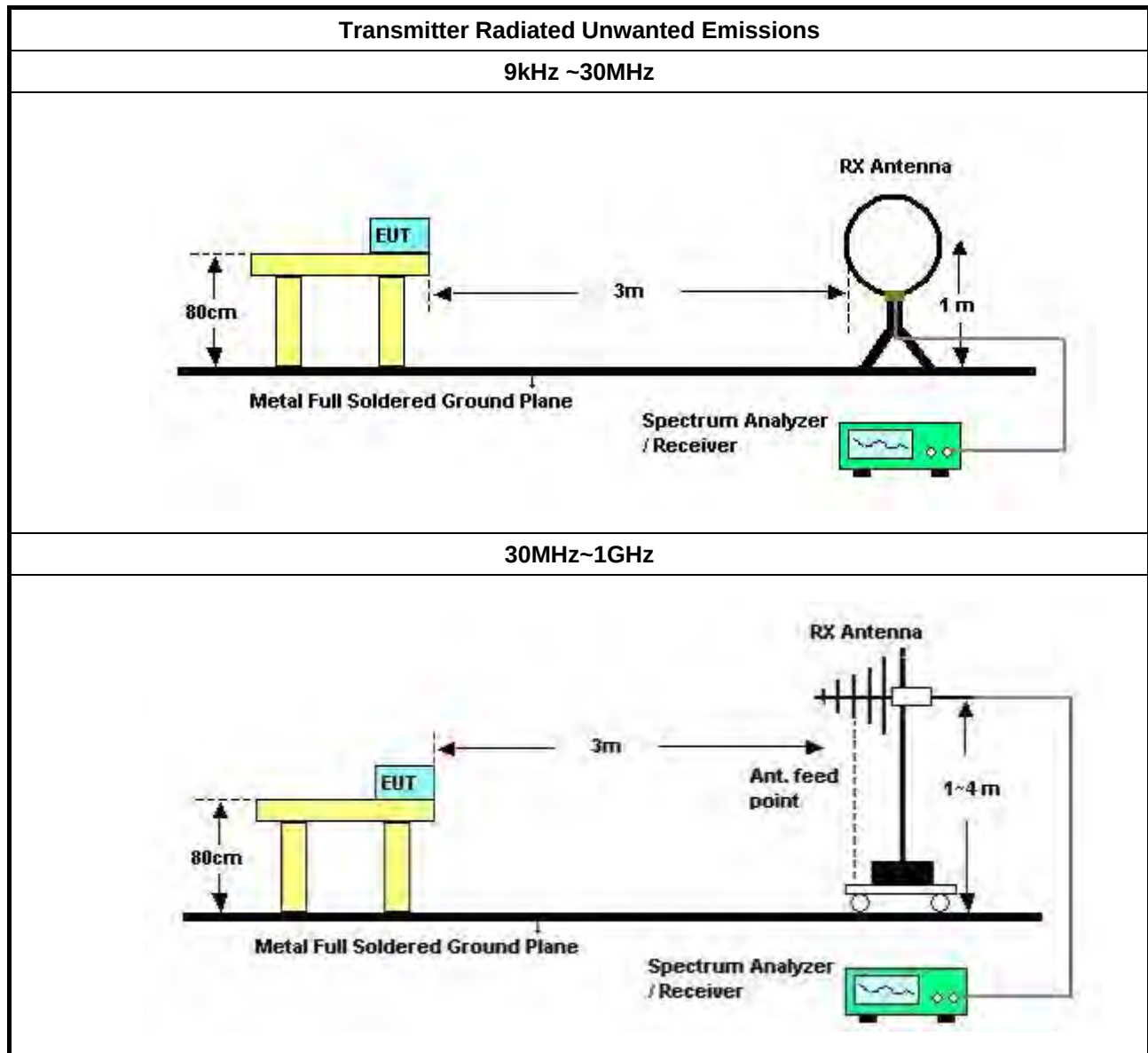
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
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. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. 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).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
	☐ 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 789033, clause H)5) measurement procedure peak limit.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
	For radiated measurement.
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	The any unwanted emissions level shall not exceed the fundamental emission level.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

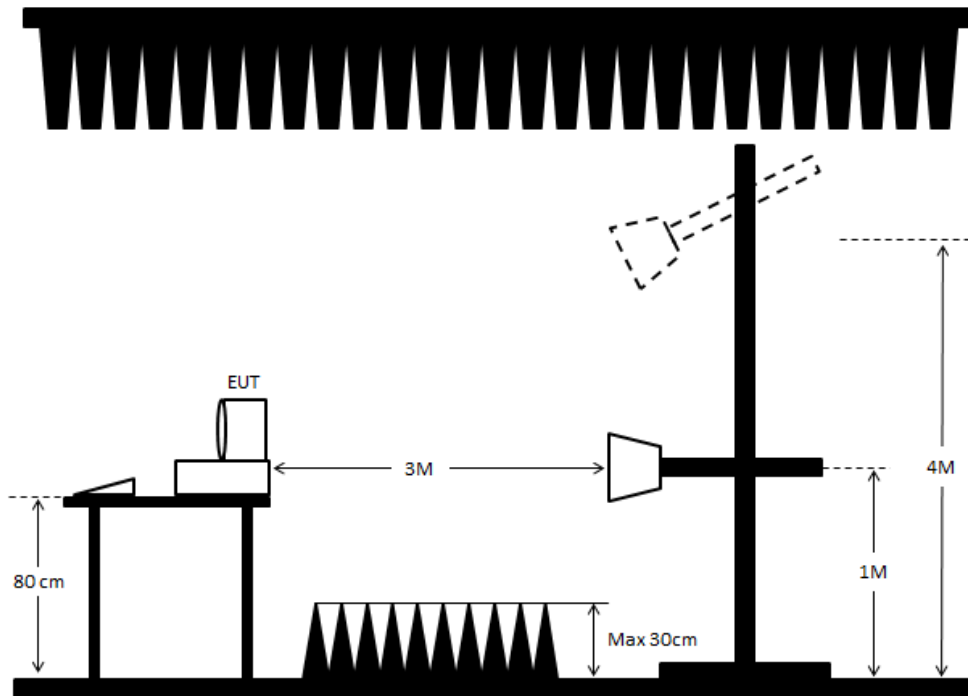
Test Method	
	For conducted and cabinet radiation measurement, refer as FCC KDB 789033, clause H)3).
	For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.5.4 Test Setup

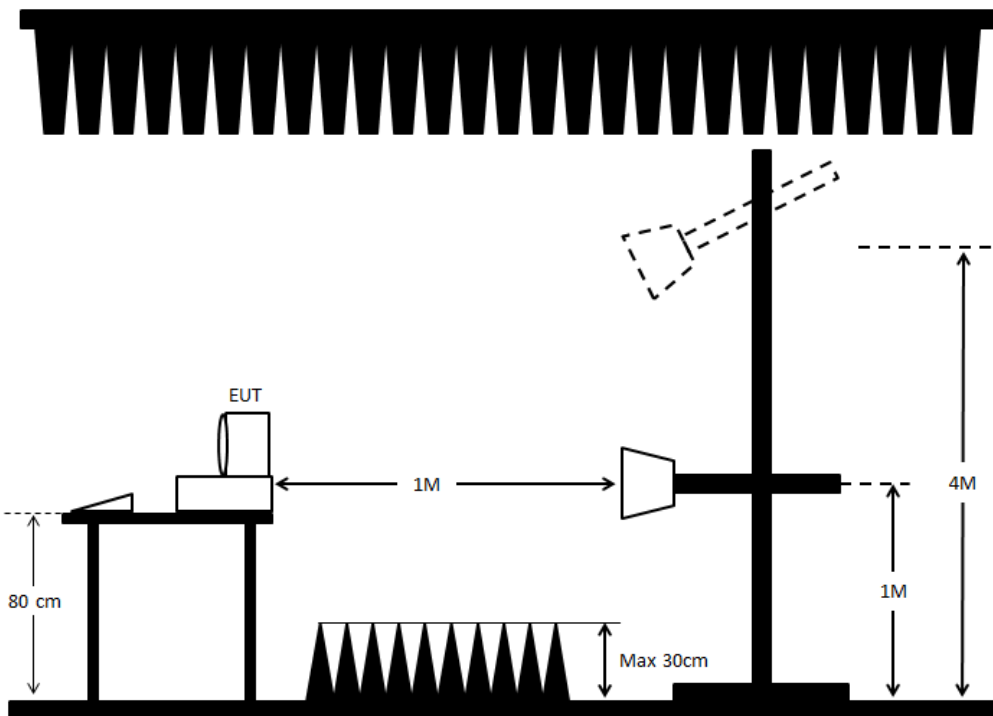


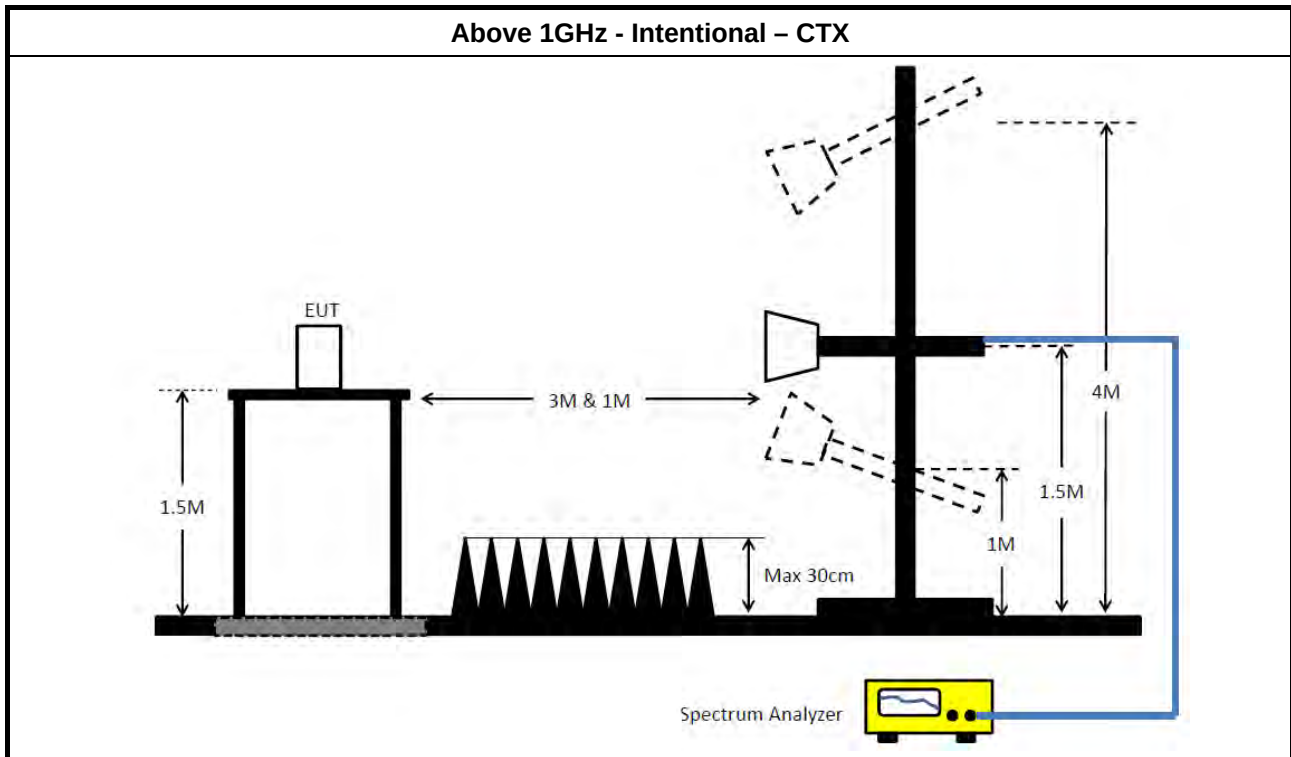
Above 1GHz - Unintentional – Normal Link

1,000~18,000 MHz



18,000~30,000 MHz





3.5.5 Transmitter 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.

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Frequency Stability

3.6.1 Frequency Stability Limit

Frequency Stability Limit
UNII Devices
In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
LE-LAN Devices
N/A
IEEE Std. 802.11
The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

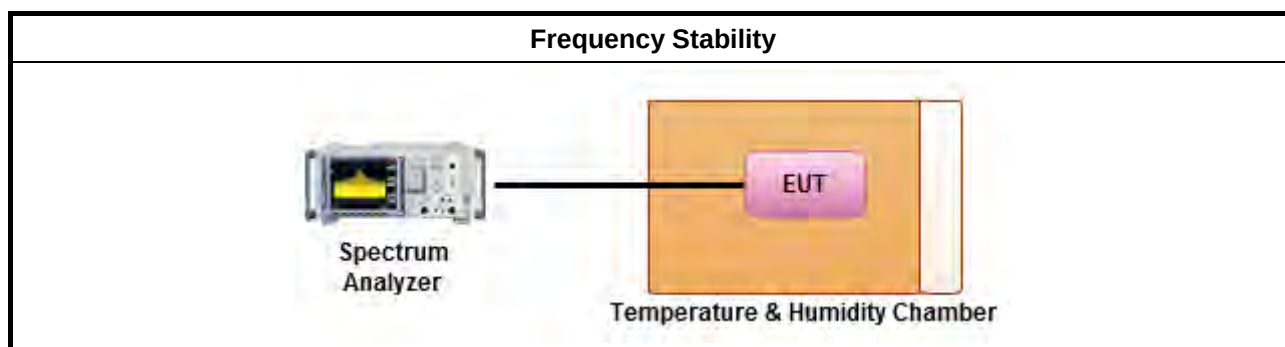
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
Refer as ANSI C63.10, clause 6.8 for frequency stability tests
- Frequency stability with respect to ambient temperature - Frequency stability when varying supply voltage - Extreme temperature is 0°C~50°C.

3.6.4 Test Setup





3.6.5 Test Result of Frequency Stability

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 27, 2016	Jan. 26, 2017	Conduction (CO01-CB)
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Jan. 22, 2018	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 08, 2015	Dec. 07, 2016	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 20, 2017	Dec. 19, 2018	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 23, 2015	Dec. 22, 2016	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 27, 2016	Dec. 26, 2017	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 24, 2016	May 23, 2017	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	May 22, 2018	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMC	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 15, 2018*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Oct. 21, 2016	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170586	18GHz ~ 40GHz	Sep. 22, 2015	Sep. 21, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 18, 2016	Jan. 17, 2017	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Jan. 15, 2018	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Nov. 13, 2015	Nov. 12, 2016	Radiation (03CH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Oct. 26, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	May 05, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Nov. 01, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Nov. 01, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Nov. 01, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Nov. 01, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Dec. 08, 2016	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 03, 2016	Jun. 02, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 02, 2015	Nov. 01, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 02, 2015	Nov. 01, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 02, 2015	Nov. 01, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 02, 2015	Nov. 01, 2016	Conducted (TH01-CB)



NCC Test Report

Report No. : TR681228-06AA

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 02, 2015	Nov. 01, 2016	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 02, 2015	Nov. 01, 2016	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

Intentional – CTX

Level (dBuV)

Date: 2016-09-09 Time: 18:37:39

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1854	39.59	-14.65	54.24	29.49	9.92	0.18	NEUTRAL	Average
2	0.1854	46.59	-17.65	64.24	36.49	9.92	0.18	NEUTRAL	QP
3	1.0211	32.90	-13.10	46.00	22.24	9.94	0.72	NEUTRAL	Average
4	1.0211	40.22	-15.78	56.00	29.56	9.94	0.72	NEUTRAL	QP
5	1.1114	35.81	-10.19	46.00	25.23	9.94	0.64	NEUTRAL	Average
6	1.1114	43.42	-12.58	56.00	32.84	9.94	0.64	NEUTRAL	QP
7	1.1970	31.63	-14.37	46.00	21.13	9.94	0.56	NEUTRAL	Average
8	1.1970	41.16	-14.84	56.00	30.66	9.94	0.56	NEUTRAL	QP
9	1.5767	34.03	-11.97	46.00	23.79	9.95	0.29	NEUTRAL	Average
10	1.5767	41.50	-14.50	56.00	31.26	9.95	0.29	NEUTRAL	QP
11	15.8854	29.31	-20.69	50.00	18.85	10.24	0.22	NEUTRAL	Average
12	15.8854	41.36	-18.64	60.00	30.90	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	Intentional – CTX		

Level (dBuV) Date: 2016-09-09 Time: 18:36:24

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	39.64	-14.56	54.20	29.54	9.92	0.18	LINE	Average
2	0.1864	46.47	-17.73	64.20	36.37	9.92	0.18	LINE	QP
3	1.0211	33.66	-12.34	46.00	23.00	9.94	0.72	LINE	Average
4	1.0211	37.84	-18.16	56.00	27.18	9.94	0.72	LINE	QP
5	1.1114	36.03	-9.97	46.00	25.45	9.94	0.64	LINE	Average
6	1.1114	43.31	-12.69	56.00	32.73	9.94	0.64	LINE	QP
7	1.2034	27.07	-18.93	46.00	16.57	9.94	0.56	LINE	Average
8	1.2034	42.75	-13.25	56.00	32.25	9.94	0.56	LINE	QP
9	1.5684	27.88	-18.12	46.00	17.63	9.95	0.30	LINE	Average
10	1.5684	40.02	-15.98	56.00	29.77	9.95	0.30	LINE	QP
11	15.8854	31.81	-18.19	50.00	21.35	10.24	0.22	LINE	Average
12	15.8854	41.76	-18.24	60.00	31.30	10.24	0.22	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.)



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Unintentional- CRX		

Date: 2017-12-26 Time: 17:59:41

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark	Pol/Phase
	MHz	dBuV	Limit	Line	Level	Factor	Loss		
			dB	dBuV	dBuV	dB	dB		
1	0.1508	44.43	-11.53	55.96	34.38	10.04	0.01	Average	NEUTRAL
2	0.1508	54.18	-11.78	65.96	44.13	10.04	0.01	QP	NEUTRAL
3	0.1677	33.78	-21.30	55.08	23.76	10.01	0.01	Average	NEUTRAL
4	0.1677	49.30	-15.78	65.08	39.28	10.01	0.01	QP	NEUTRAL
5	0.1777	33.25	-21.34	54.59	23.25	9.99	0.01	Average	NEUTRAL
6	0.1777	48.15	-16.44	64.59	38.15	9.99	0.01	QP	NEUTRAL
7	0.1945	32.49	-21.35	53.84	22.51	9.97	0.01	Average	NEUTRAL
8	0.1945	46.62	-17.22	63.84	36.64	9.97	0.01	QP	NEUTRAL
9	0.2208	31.35	-21.44	52.79	21.38	9.96	0.01	Average	NEUTRAL
10	0.2208	43.75	-19.04	62.79	33.78	9.96	0.01	QP	NEUTRAL
11	0.2495	32.56	-19.22	51.78	22.59	9.95	0.02	Average	NEUTRAL
12	0.2495	42.06	-19.72	61.78	32.09	9.95	0.02	QP	NEUTRAL
13	0.2616	33.60	-17.78	51.38	23.63	9.95	0.02	Average	NEUTRAL
14	0.2616	41.79	-19.59	61.38	31.82	9.95	0.02	QP	NEUTRAL
15	7.0303	36.12	-13.88	50.00	25.94	10.11	0.07	Average	NEUTRAL
16	7.0303	42.08	-17.92	60.00	31.90	10.11	0.07	QP	NEUTRAL

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

1

Power Phase

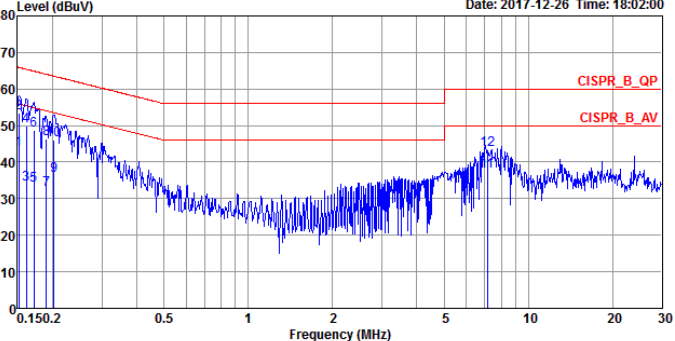
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Operating Function

Unintentional- CRX

Level (dBuV)

Date: 2017-12-26 Time: 18:02:00



Frequency (MHz)

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark	Pol/Phase
	MHz	dBuV	Limit	Line	Level	Factor	Loss		
			dB	dBuV	dBuV	dB	dB		
1	0.1516	43.40	-12.51	55.91	33.40	9.99	0.01	Average	LINE
2	0.1516	53.56	-12.35	65.91	43.56	9.99	0.01	QP	LINE
3	0.1616	33.99	-21.39	55.38	24.01	9.97	0.01	Average	LINE
4	0.1616	49.98	-15.40	65.38	40.00	9.97	0.01	QP	LINE
5	0.1712	33.54	-21.36	54.90	23.57	9.96	0.01	Average	LINE
6	0.1712	48.62	-16.28	64.90	38.65	9.96	0.01	QP	LINE
7	0.1904	32.56	-21.46	54.02	22.63	9.92	0.01	Average	LINE
8	0.1904	46.27	-17.75	64.02	36.34	9.92	0.01	QP	LINE
9	0.2018	36.26	-17.28	53.54	26.34	9.91	0.01	Average	LINE
10	0.2018	46.03	-17.51	63.54	36.11	9.91	0.01	QP	LINE
11	7.1409	37.59	-12.41	50.00	27.51	10.01	0.07	Average	LINE
12	7.1409	43.31	-16.69	60.00	33.23	10.01	0.07	QP	LINE

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.)



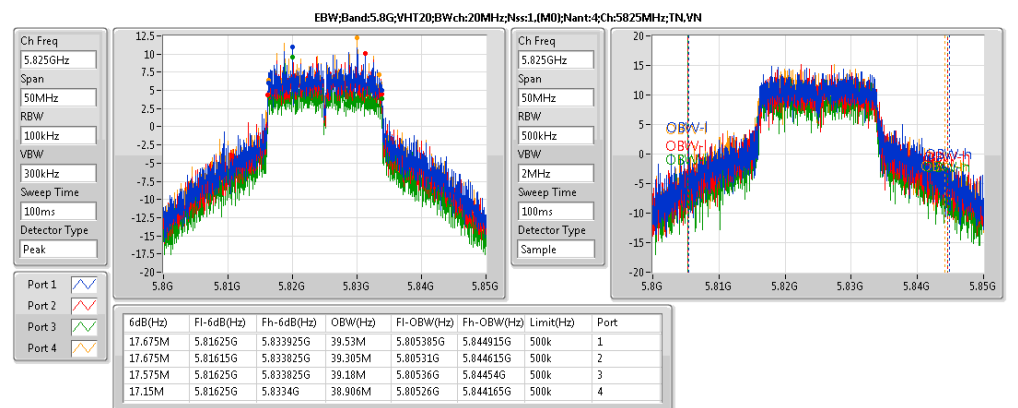
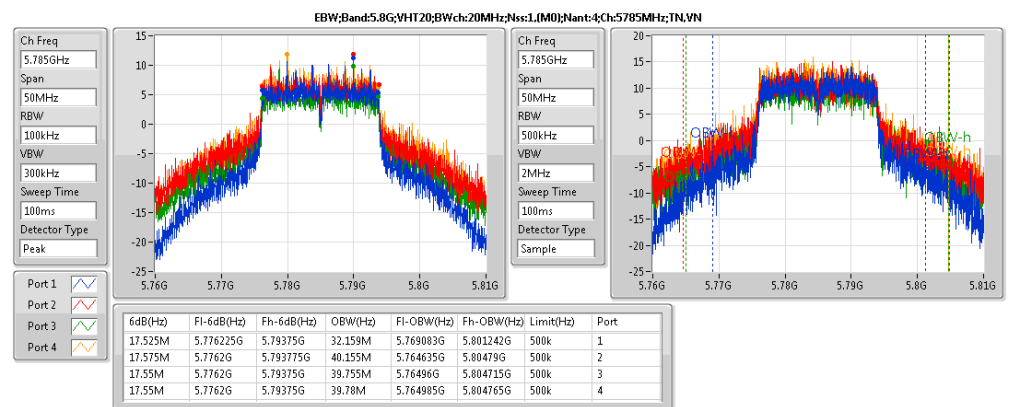
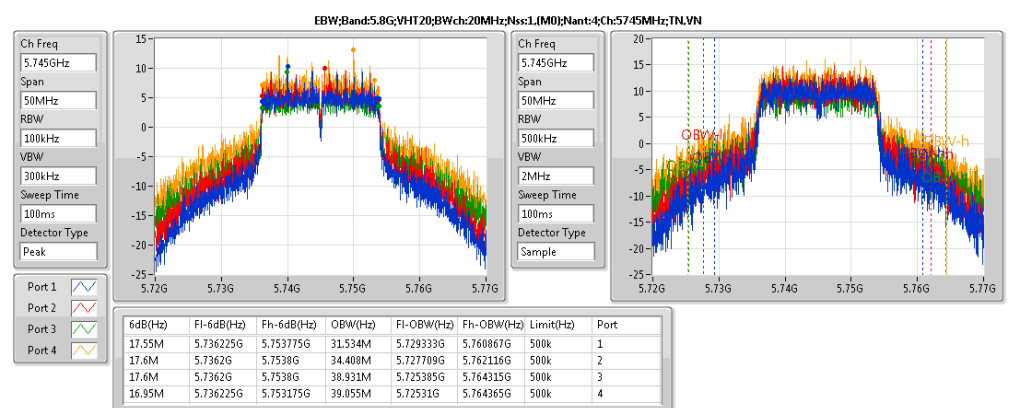
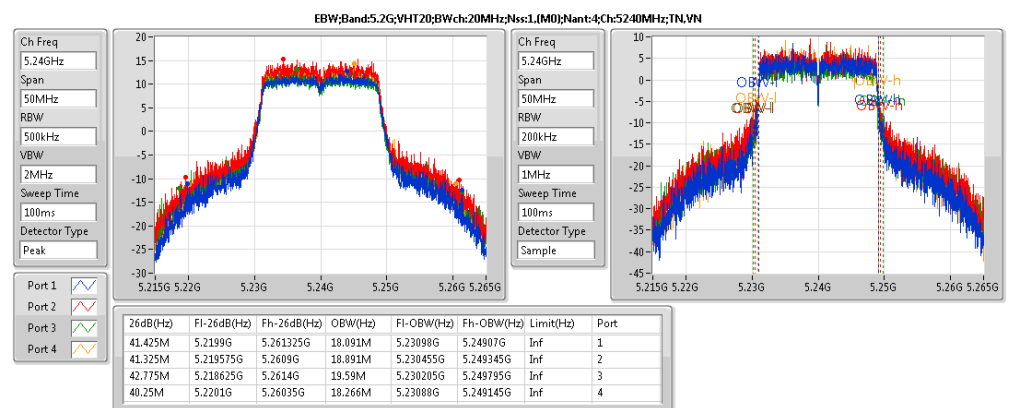
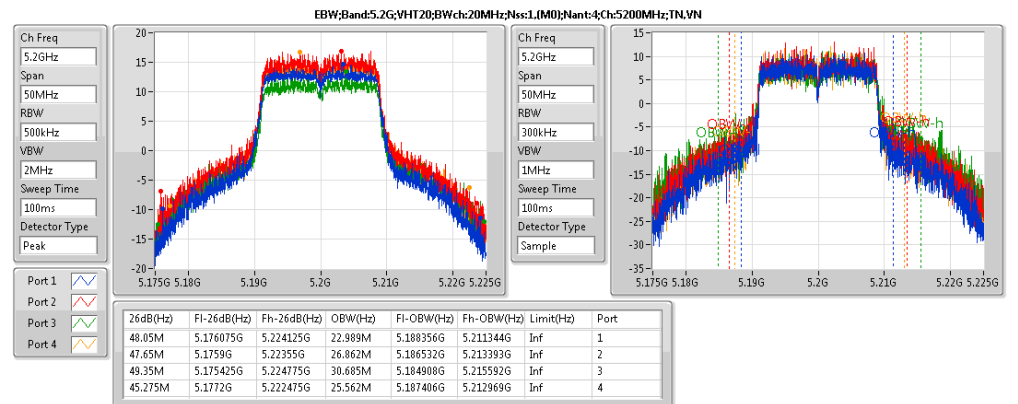
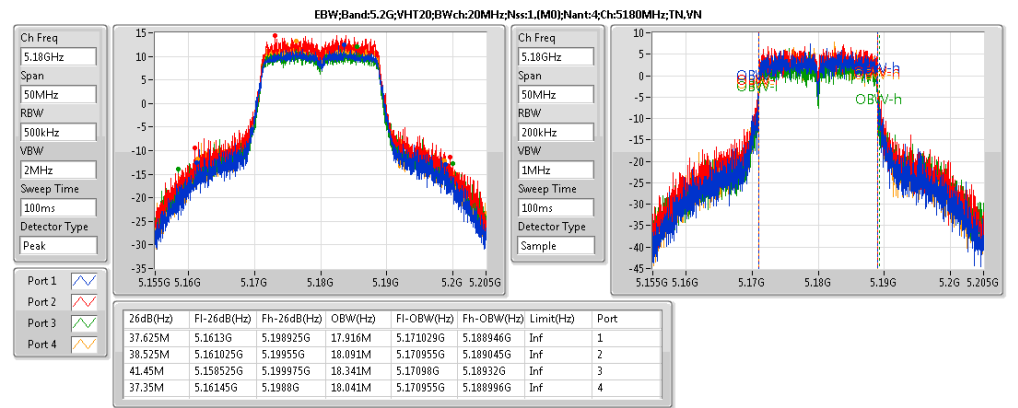
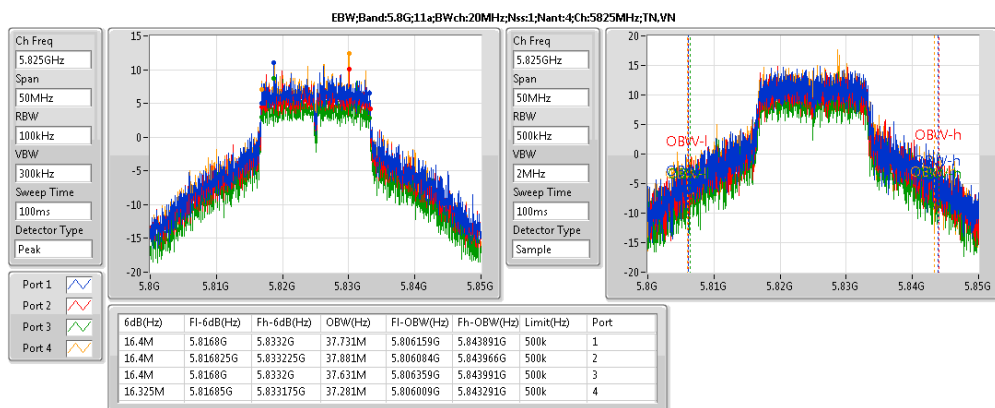
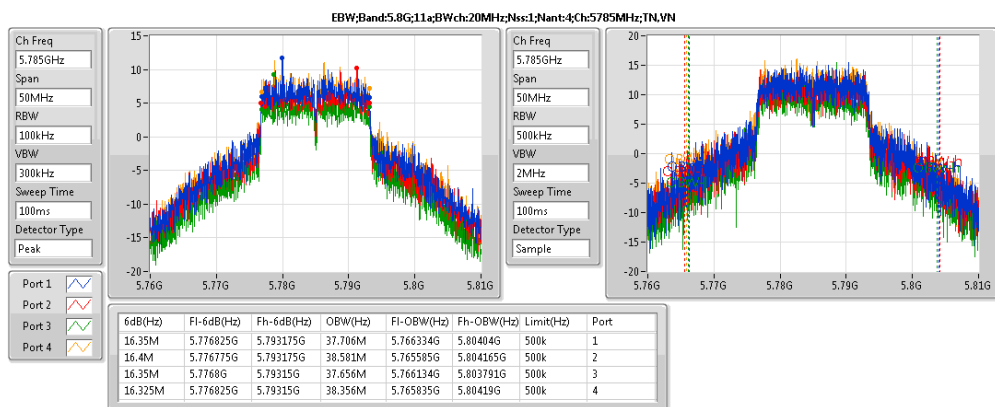
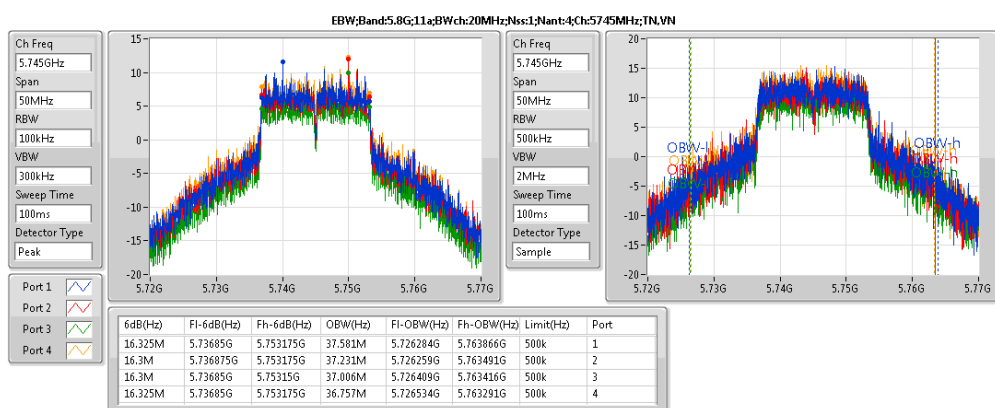
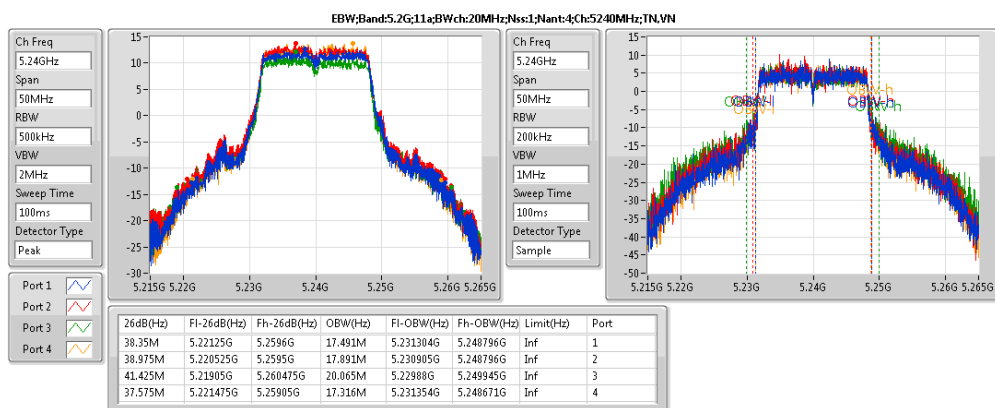
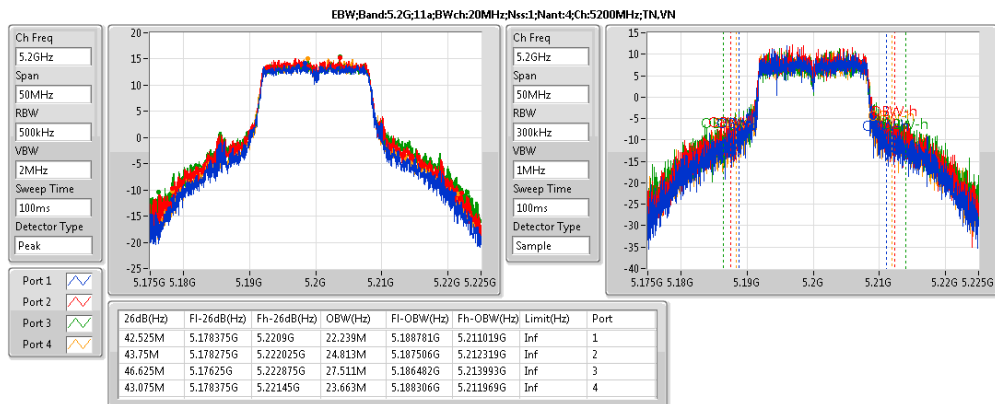
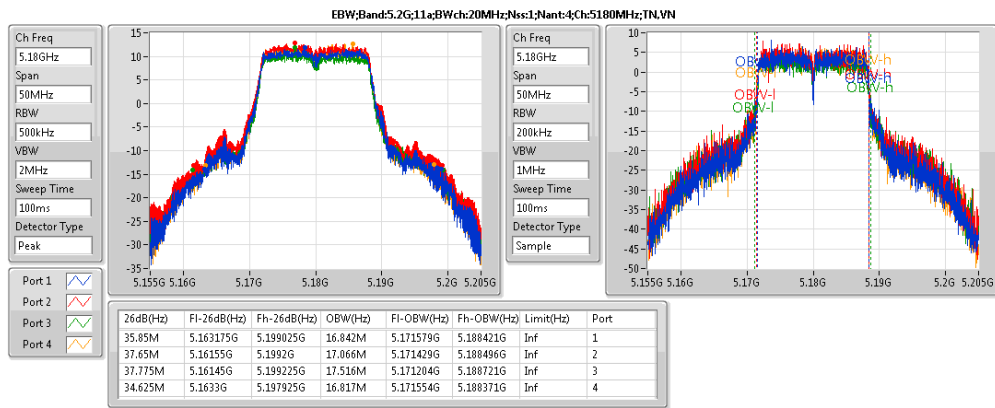
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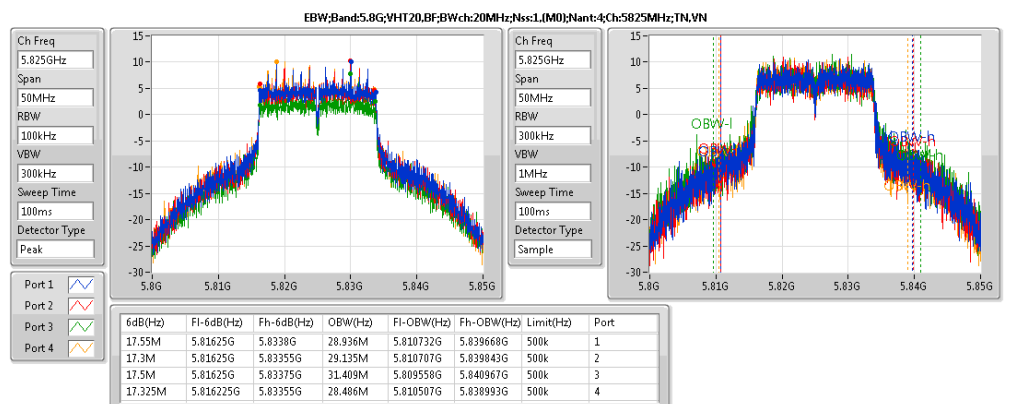
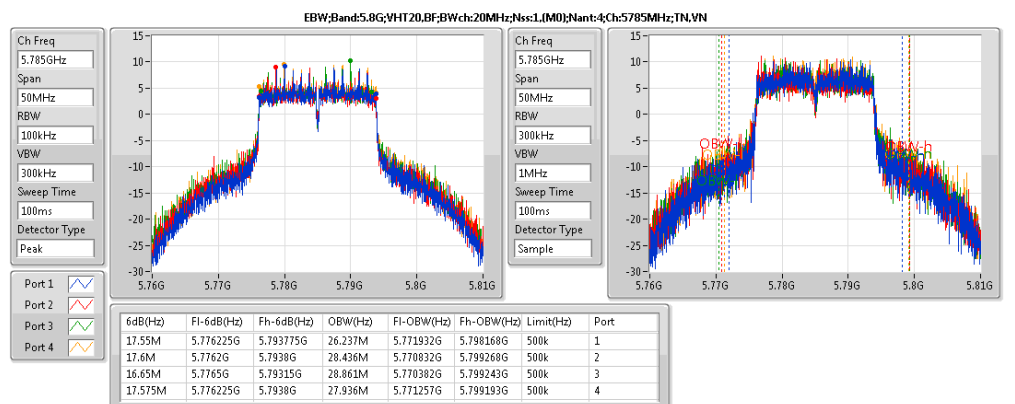
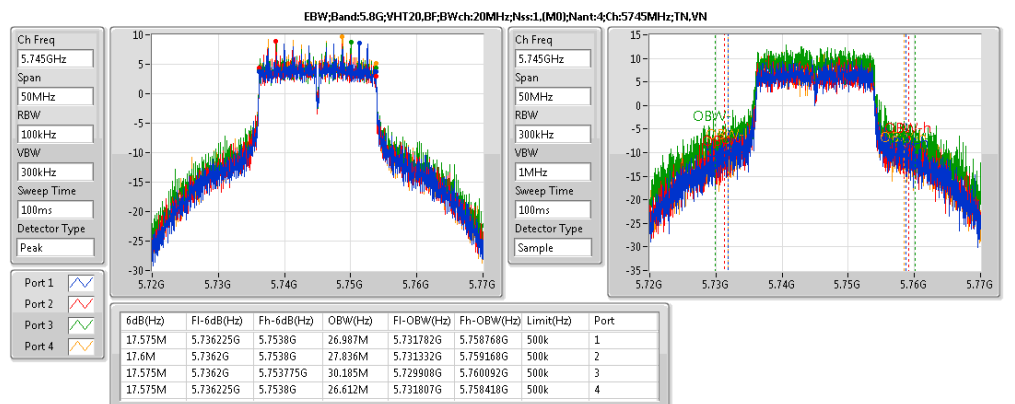
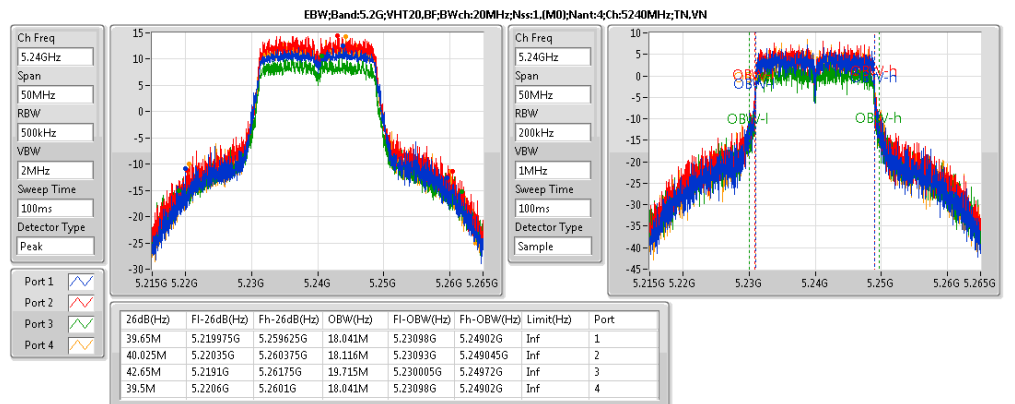
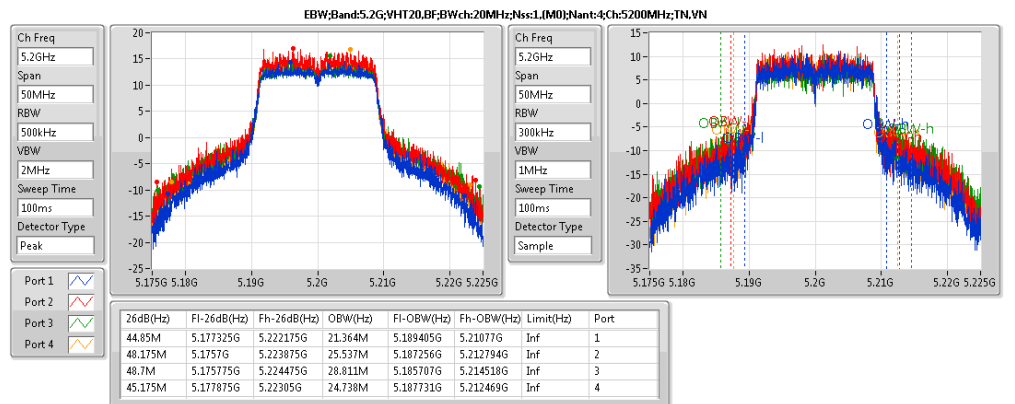
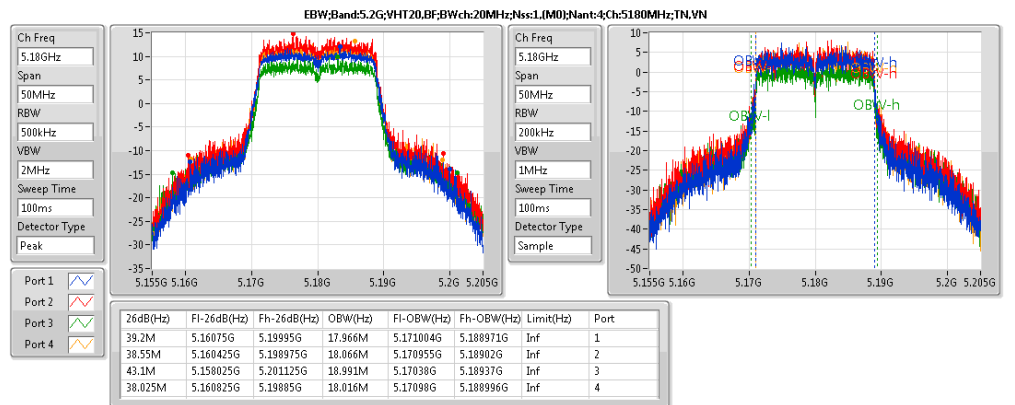
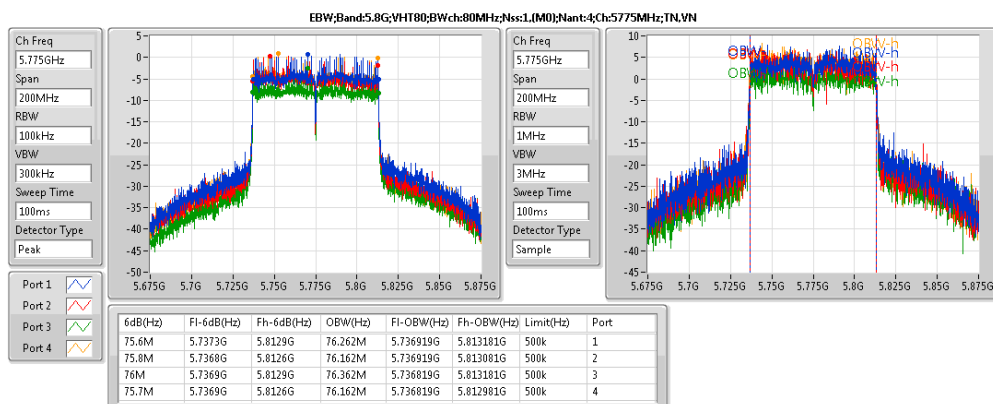
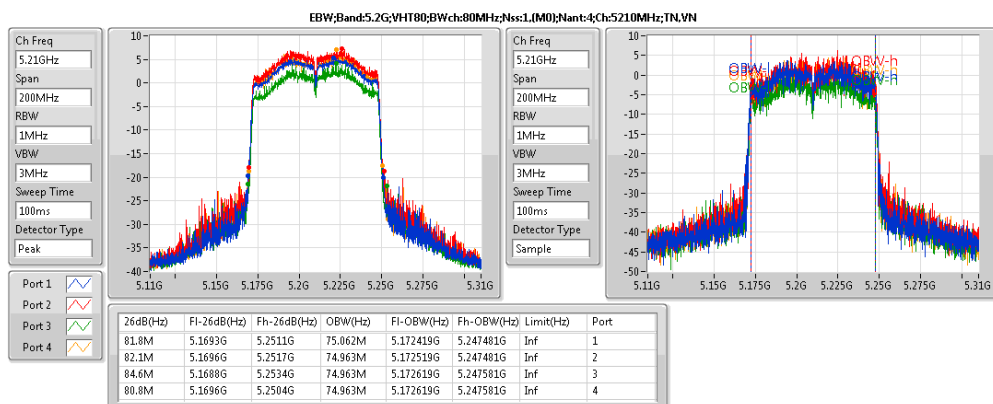
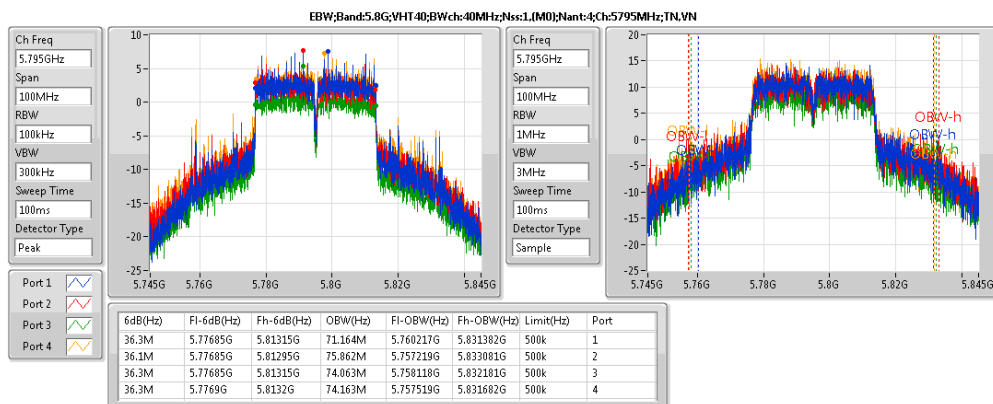
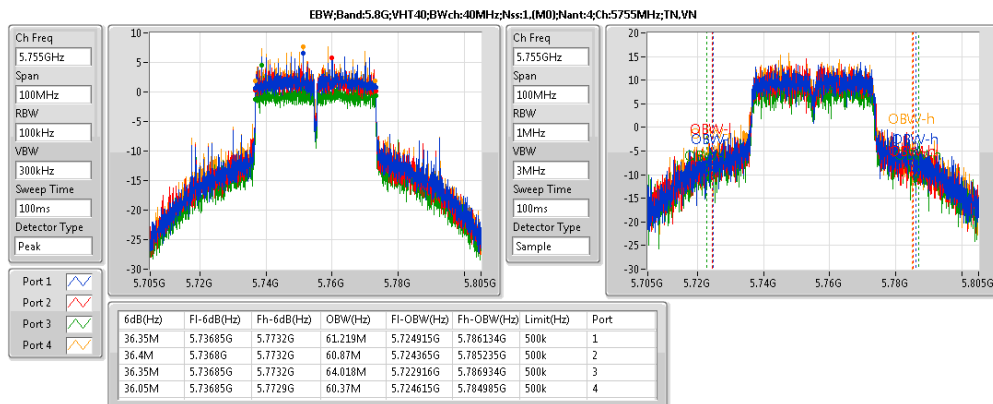
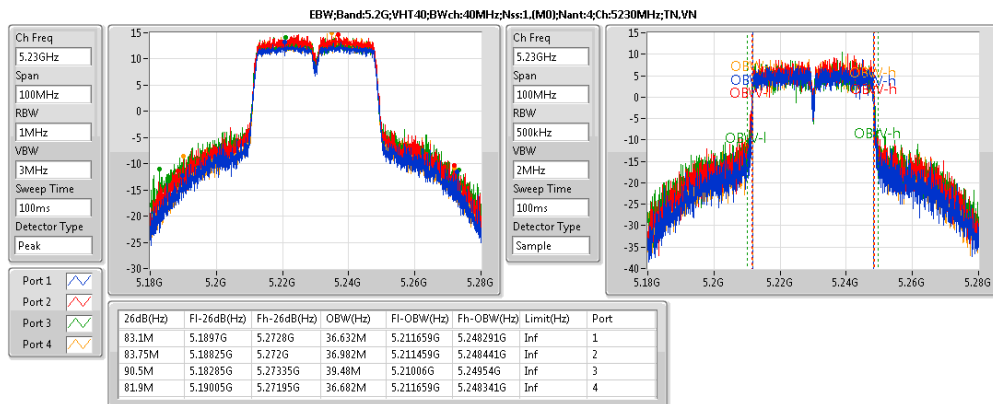
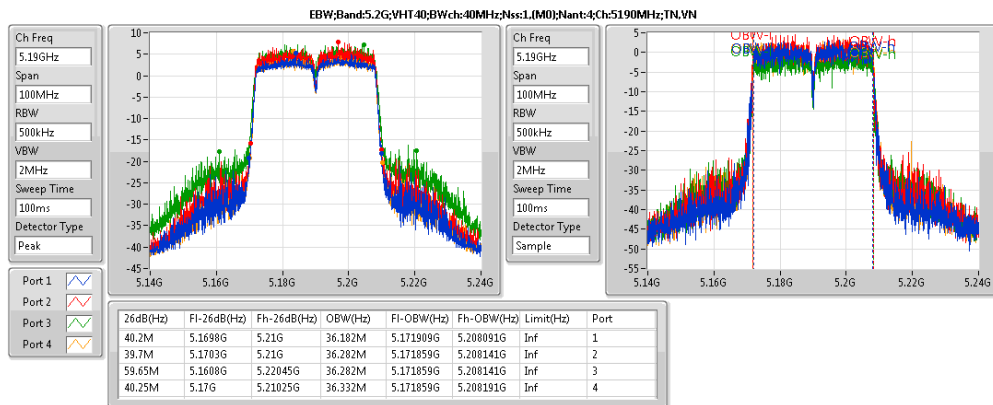
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.2G;11a;Nss1;Ntx4	46.625M	27.511M	27M5D1D	34.625M	16.817M
5.8G;11a;Nss1;Ntx4	16.4M	38.581M	38M6D1D	16.3M	36.757M
5.2G;VHT20;Nss1,(M0);Ntx4	49.35M	30.685M	30M7D1D	37.35M	17.916M
5.8G;VHT20;Nss1,(M0);Ntx4	17.675M	40.155M	40M2D1D	16.95M	31.534M
5.2G;VHT40;Nss1,(M0);Ntx4	90.5M	39.48M	39M5D1D	39.7M	36.182M
5.8G;VHT40;Nss1,(M0);Ntx4	36.4M	75.862M	75M9D1D	36.05M	60.37M
5.2G;VHT80;Nss1,(M0);Ntx4	84.6M	75.062M	75M1D1D	80.8M	74.963M
5.8G;VHT80;Nss1,(M0);Ntx4	76M	76.362M	76M4D1D	75.6M	76.162M
5.2G;VHT20,BF;Nss1,(M0);Ntx4	48.7M	28.811M	28M8D1D	38.025M	17.966M
5.8G;VHT20,BF;Nss1,(M0);Ntx4	17.6M	31.409M	31M4D1D	16.65M	26.237M
5.2G;VHT40,BF;Nss1,(M0);Ntx4	87.8M	38.831M	38M8D1D	40.1M	36.232M
5.8G;VHT40,BF;Nss1,(M0);Ntx4	36.35M	64.168M	64M2D1D	36.25M	56.472M
5.2G;VHT80,BF;Nss1,(M0);Ntx4	82M	75.362M	75M4D1D	80.8M	74.963M
5.8G;VHT80,BF;Nss1,(M0);Ntx4	76M	76.362M	76M4D1D	75.5M	76.162M



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)
5.2G;11a;Nss1;Ntx4;5180	Pass	Inf	35.85M	16.842M	37.65M	17.066M	37.775M	17.516M	34.625M	16.817M
5.2G;11a;Nss1;Ntx4;5200	Pass	Inf	42.525M	22.239M	43.75M	24.813M	46.625M	27.511M	43.075M	23.663M
5.2G;11a;Nss1;Ntx4;5240	Pass	Inf	38.35M	17.491M	38.975M	17.891M	41.425M	20.065M	37.575M	17.316M
5.8G;11a;Nss1;Ntx4;5745	Pass	500k	16.325M	37.581M	16.3M	37.231M	16.3M	37.006M	16.325M	36.757M
5.8G;11a;Nss1;Ntx4;5785	Pass	500k	16.35M	37.706M	16.4M	38.581M	16.35M	37.656M	16.325M	38.356M
5.8G;11a;Nss1;Ntx4;5825	Pass	500k	16.4M	37.731M	16.4M	37.881M	16.4M	37.631M	16.325M	37.281M
5.2G;VHT20;Nss1,(M0);Ntx4;5180	Pass	Inf	37.625M	17.916M	38.525M	18.091M	41.45M	18.341M	37.35M	18.041M
5.2G;VHT20;Nss1,(M0);Ntx4;5200	Pass	Inf	48.05M	22.989M	47.65M	26.862M	49.35M	30.685M	45.275M	25.562M
5.2G;VHT20;Nss1,(M0);Ntx4;5240	Pass	Inf	41.425M	18.091M	41.325M	18.891M	42.775M	19.59M	40.25M	18.266M
5.8G;VHT20;Nss1,(M0);Ntx4;5745	Pass	500k	17.55M	31.534M	17.6M	34.408M	17.6M	38.931M	16.95M	39.055M
5.8G;VHT20;Nss1,(M0);Ntx4;5785	Pass	500k	17.525M	32.159M	17.575M	40.155M	17.55M	39.755M	17.55M	39.78M
5.8G;VHT20;Nss1,(M0);Ntx4;5825	Pass	500k	17.675M	39.53M	17.675M	39.305M	17.575M	39.18M	17.15M	38.906M
5.2G;VHT40;Nss1,(M0);Ntx4;5190	Pass	Inf	40.2M	36.182M	39.7M	36.282M	59.65M	36.282M	40.25M	36.332M
5.2G;VHT40;Nss1,(M0);Ntx4;5230	Pass	Inf	83.1M	36.632M	83.75M	36.982M	90.5M	39.48M	81.9M	36.682M
5.8G;VHT40;Nss1,(M0);Ntx4;5755	Pass	500k	36.35M	61.219M	36.4M	60.87M	36.35M	64.018M	36.05M	60.37M
5.8G;VHT40;Nss1,(M0);Ntx4;5795	Pass	500k	36.3M	71.164M	36.1M	75.862M	36.3M	74.063M	36.3M	74.163M
5.2G;VHT80;Nss1,(M0);Ntx4;5210	Pass	Inf	81.8M	75.062M	82.1M	74.963M	84.6M	74.963M	80.8M	74.963M
5.8G;VHT80;Nss1,(M0);Ntx4;5775	Pass	500k	75.6M	76.262M	75.8M	76.162M	76M	76.362M	75.7M	76.162M
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5180	Pass	Inf	39.2M	17.966M	38.55M	18.066M	43.1M	18.991M	38.025M	18.016M
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5200	Pass	Inf	44.85M	21.364M	48.175M	25.537M	48.7M	28.811M	45.175M	24.738M
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5240	Pass	Inf	39.65M	18.041M	40.025M	18.116M	42.65M	19.715M	39.5M	18.041M
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5745	Pass	500k	17.575M	26.987M	17.6M	27.836M	17.575M	30.185M	17.575M	26.612M
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5785	Pass	500k	17.55M	26.237M	17.6M	28.436M	16.65M	28.861M	17.575M	27.936M
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5825	Pass	500k	17.55M	28.936M	17.3M	29.135M	17.5M	31.409M	17.325M	28.486M
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5190	Pass	Inf	40.15M	36.232M	40.9M	36.332M	49.5M	36.332M	40.1M	36.282M
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5230	Pass	Inf	78.45M	36.632M	86.75M	37.081M	87.8M	38.831M	81.15M	36.632M
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5755	Pass	500k	36.35M	60.07M	36.3M	59.82M	36.3M	62.069M	36.35M	56.472M
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5795	Pass	500k	36.3M	60.97M	36.3M	64.168M	36.25M	60.97M	36.3M	60.57M
5.2G;VHT80,BF;Nss1,(M0);Ntx4;5210	Pass	Inf	81.3M	75.062M	80.9M	74.963M	80.8M	75.062M	82M	75.362M
5.8G;VHT80,BF;Nss1,(M0);Ntx4;5775	Pass	500k	76M	76.162M	75.6M	76.362M	75.5M	76.262M	76M	76.362M

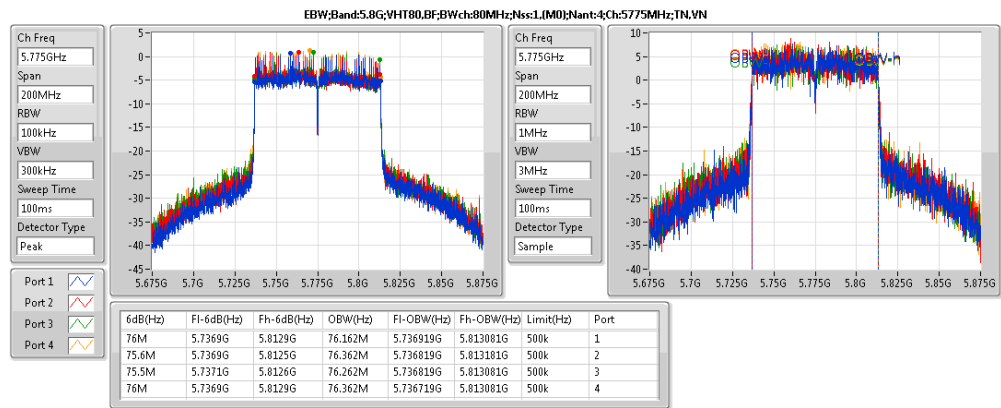
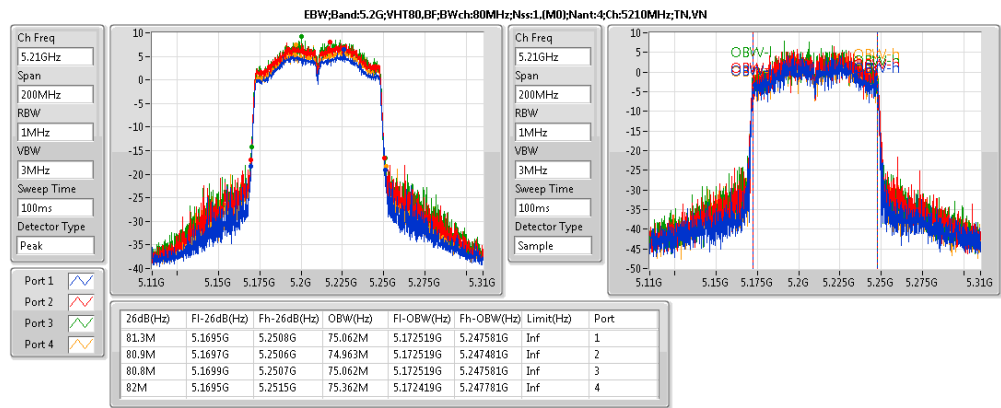
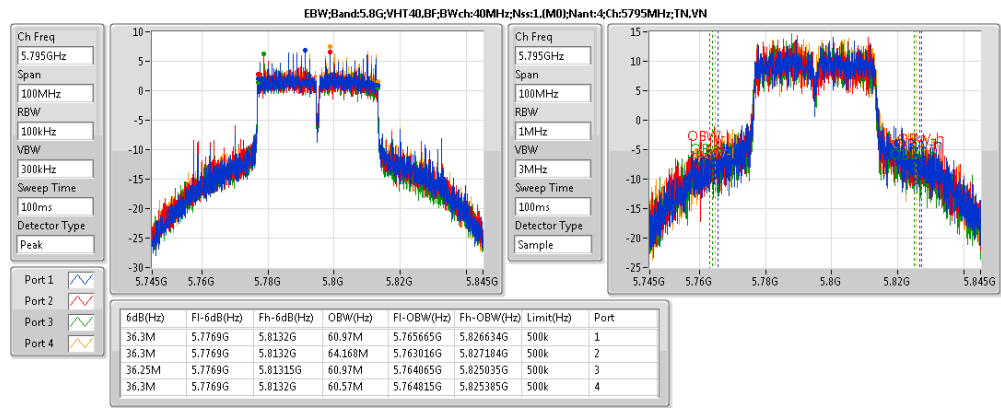
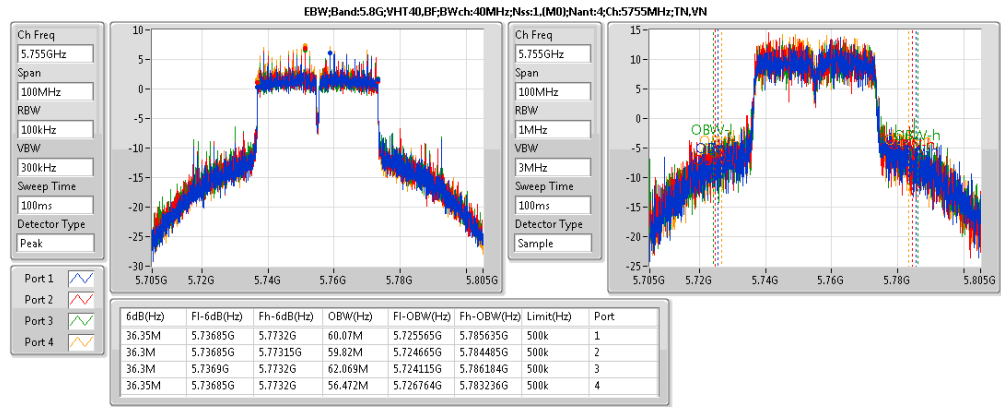
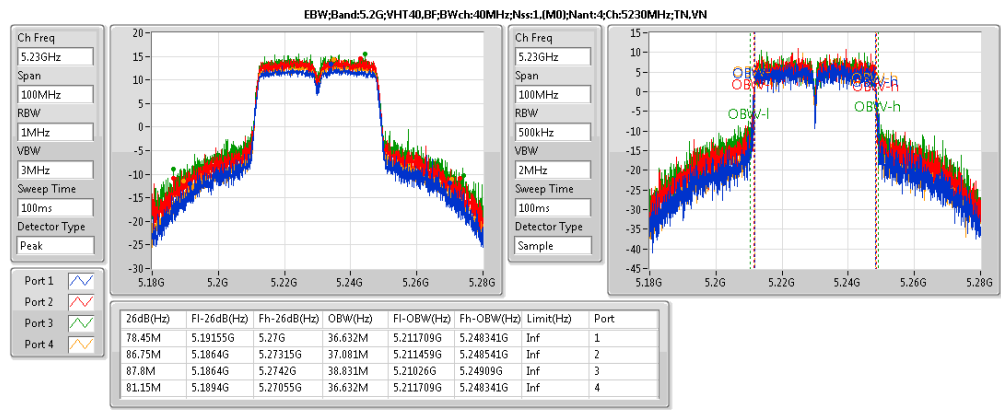
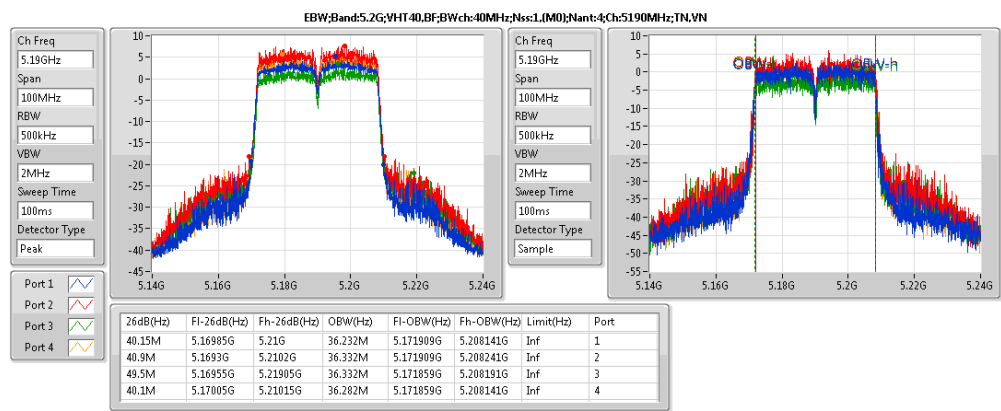






Antenna 1 EBW Result

Appendix B





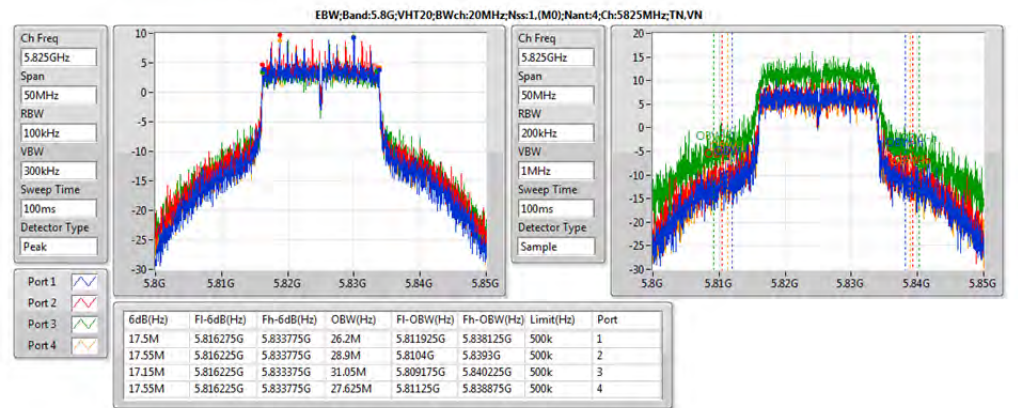
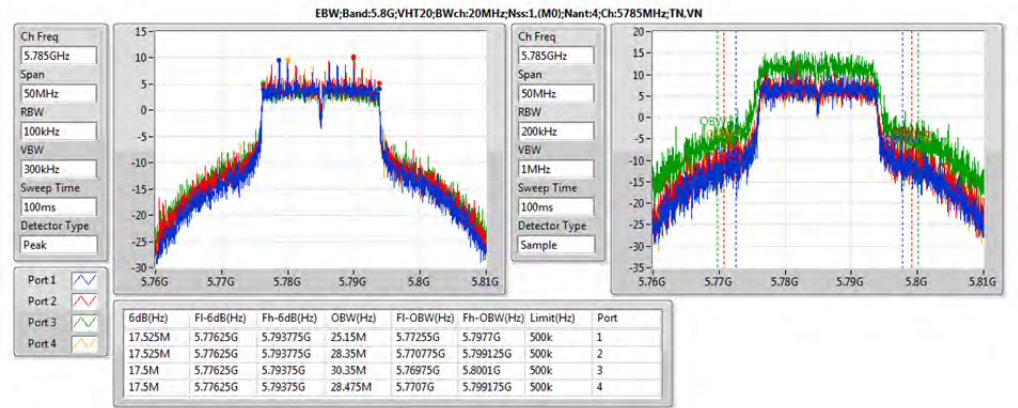
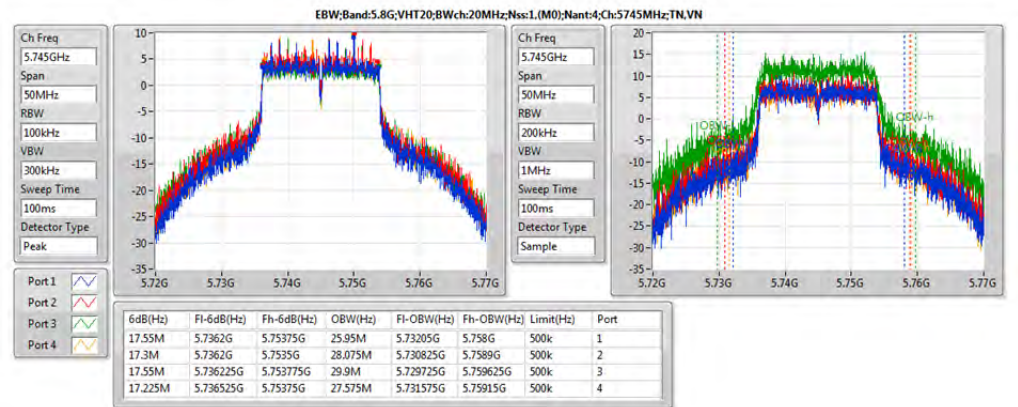
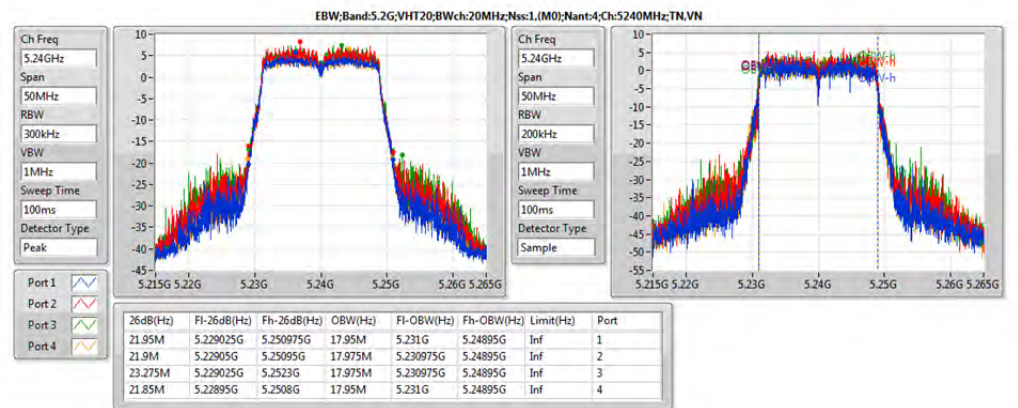
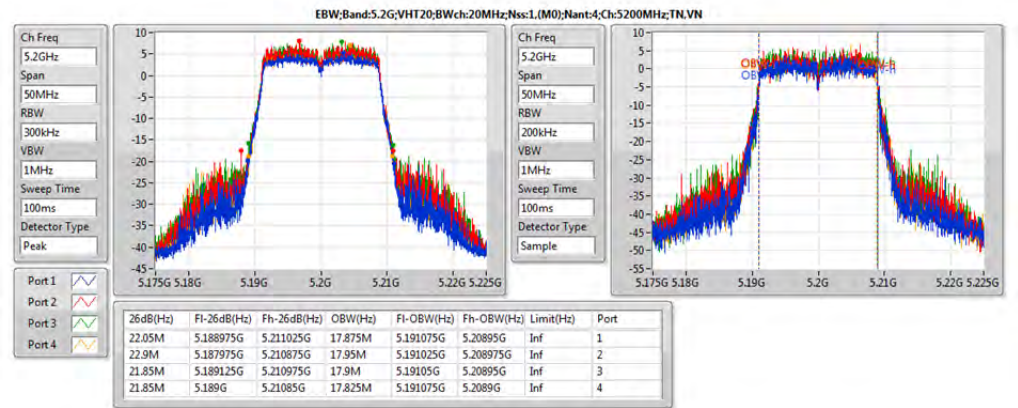
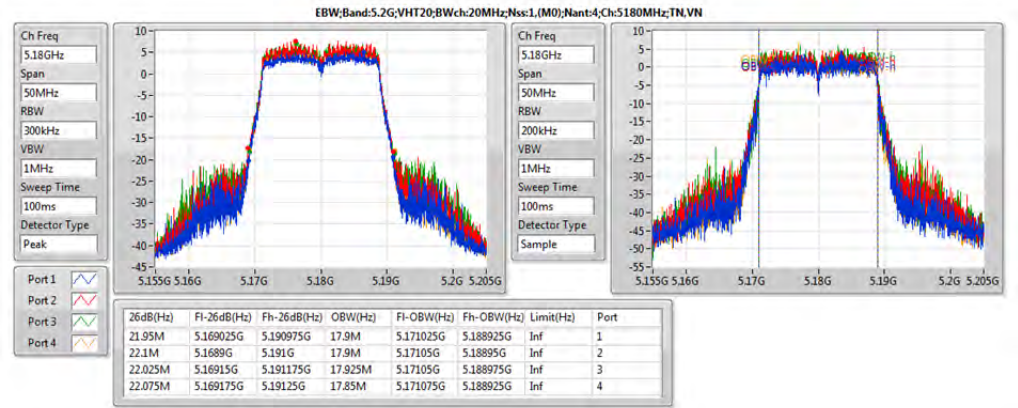
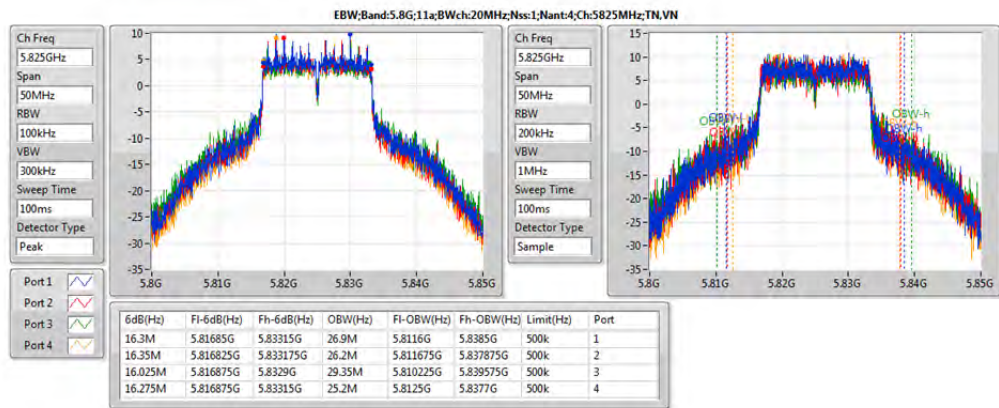
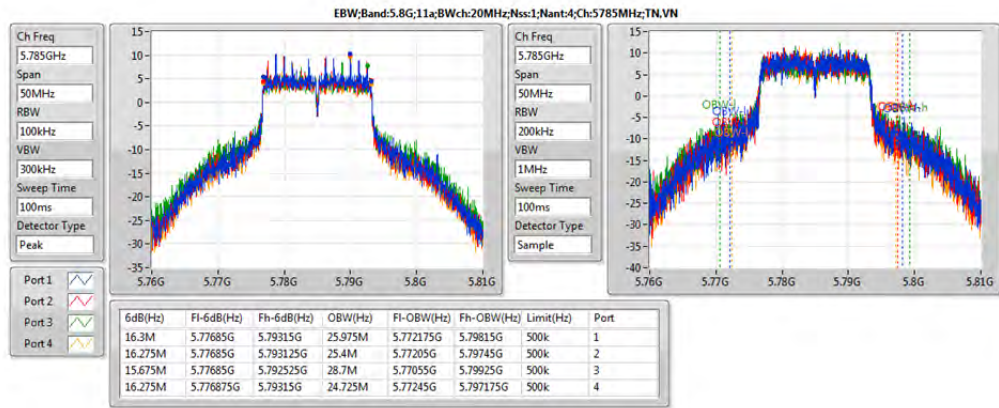
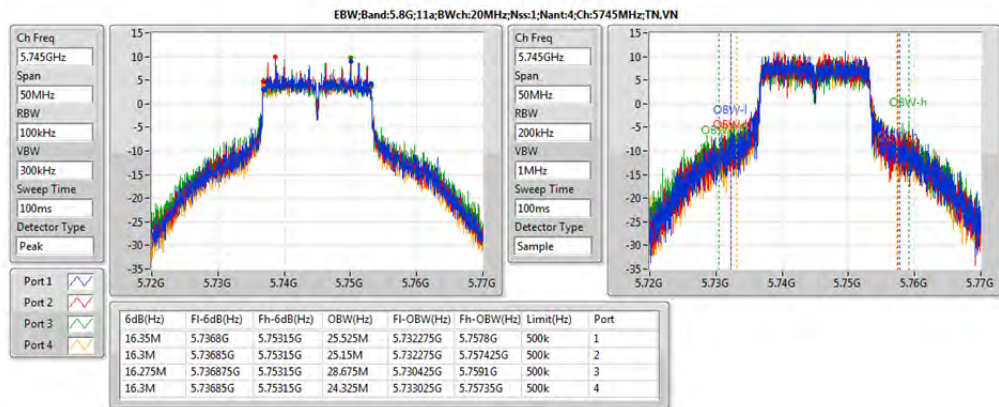
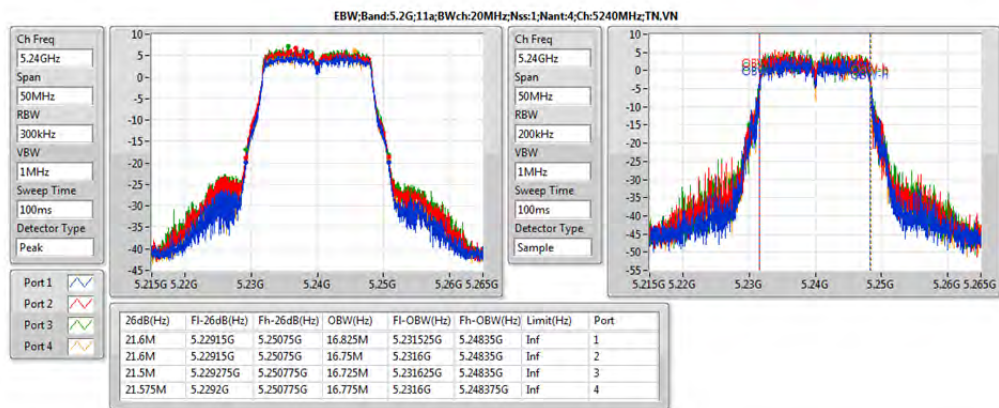
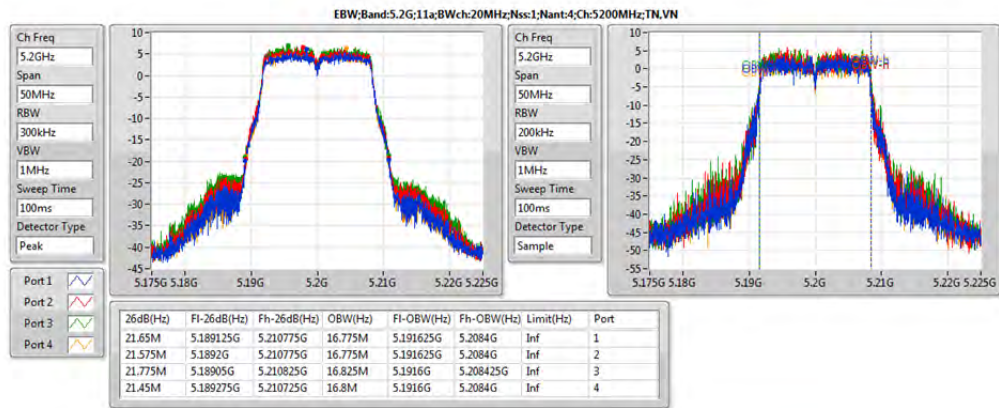
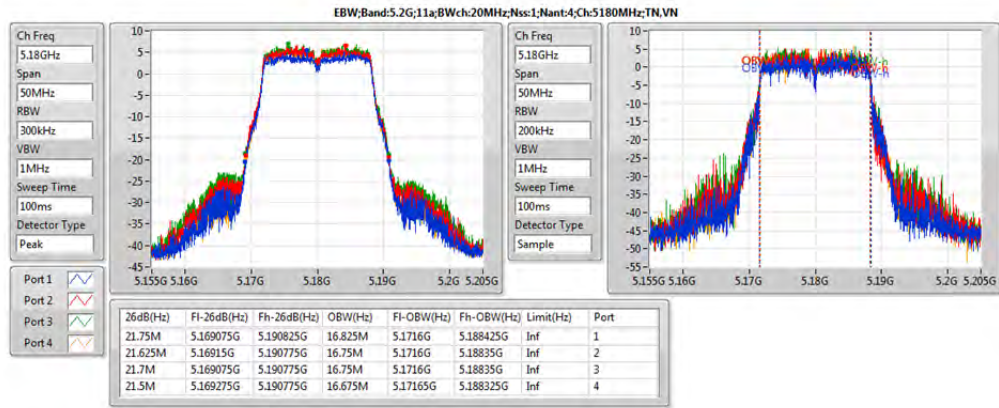
Summary

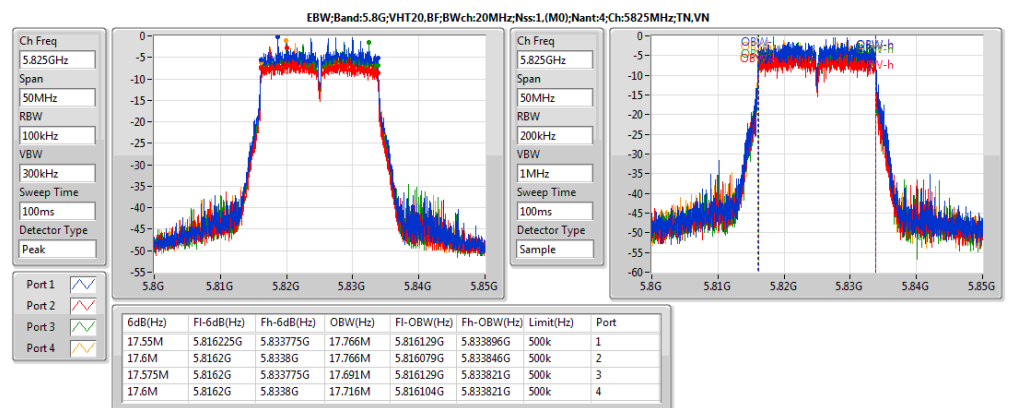
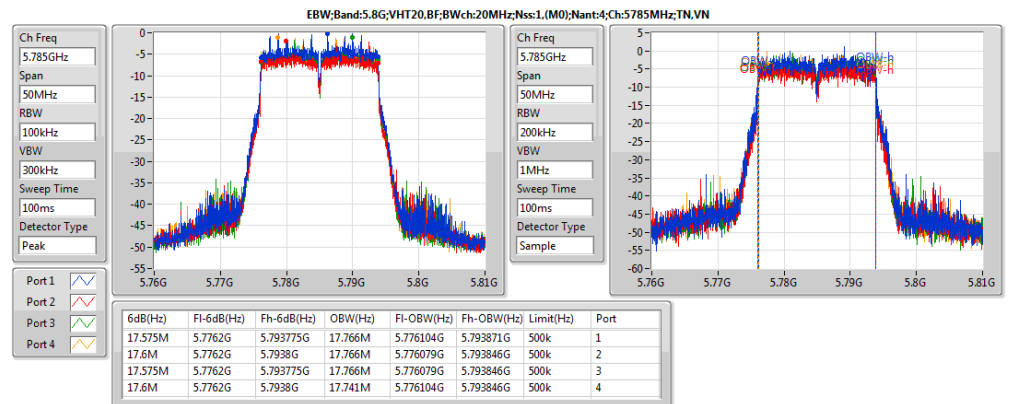
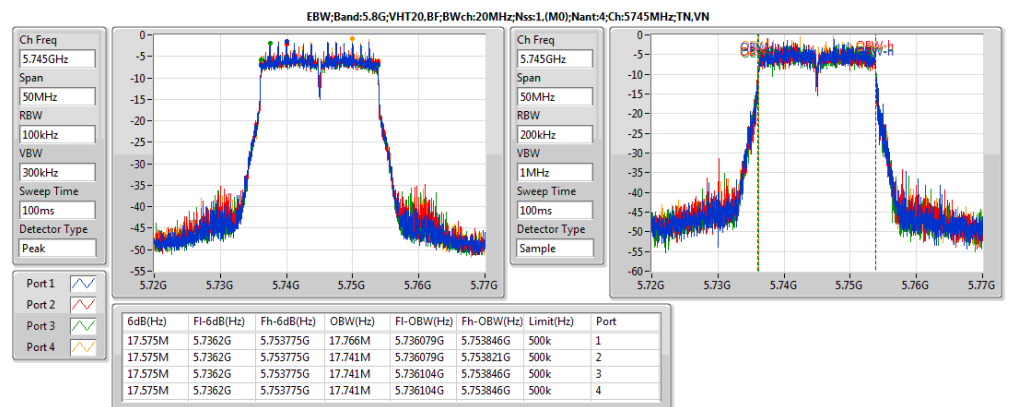
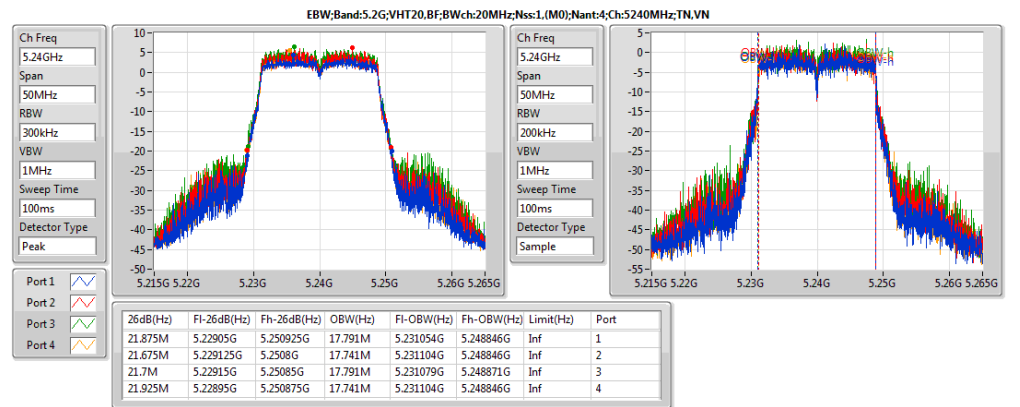
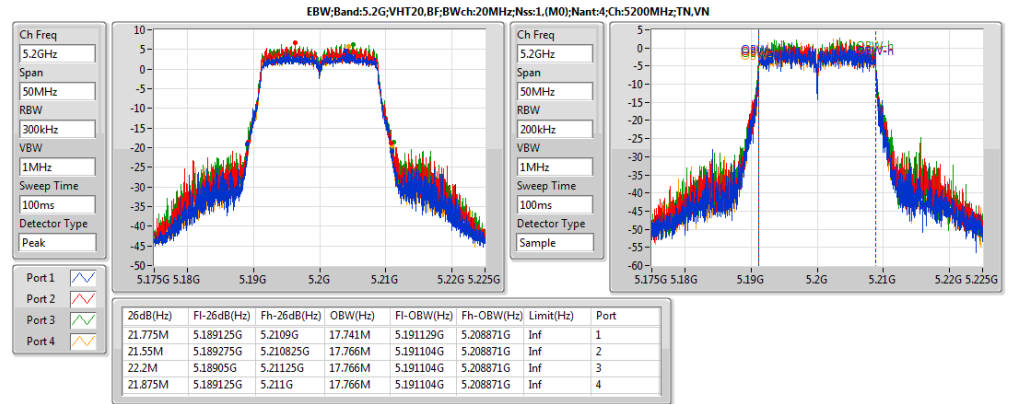
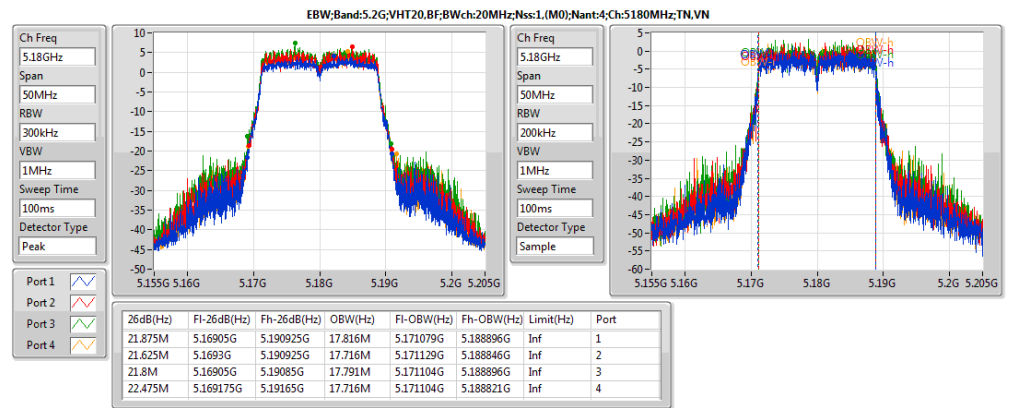
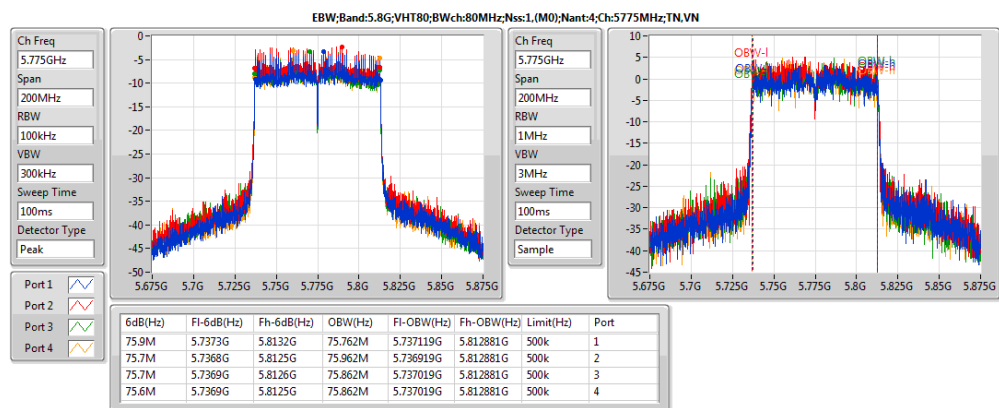
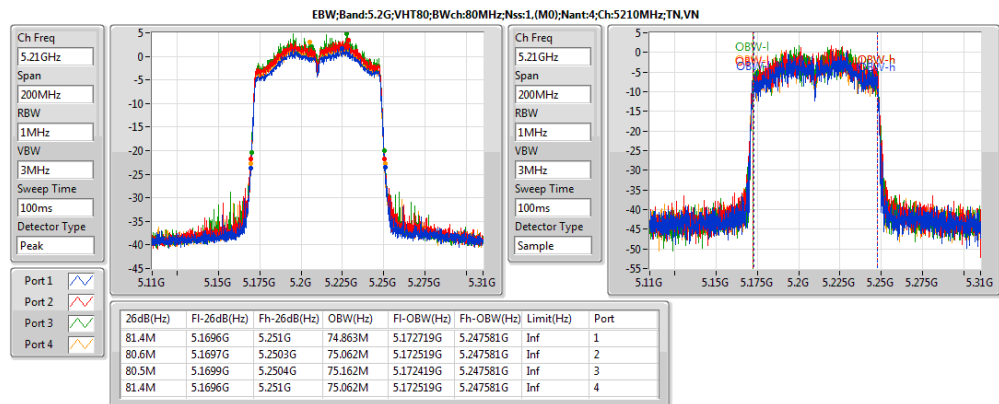
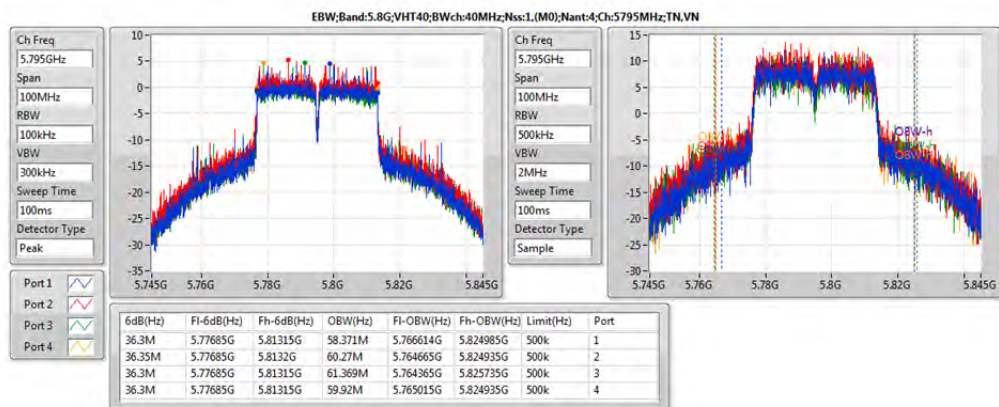
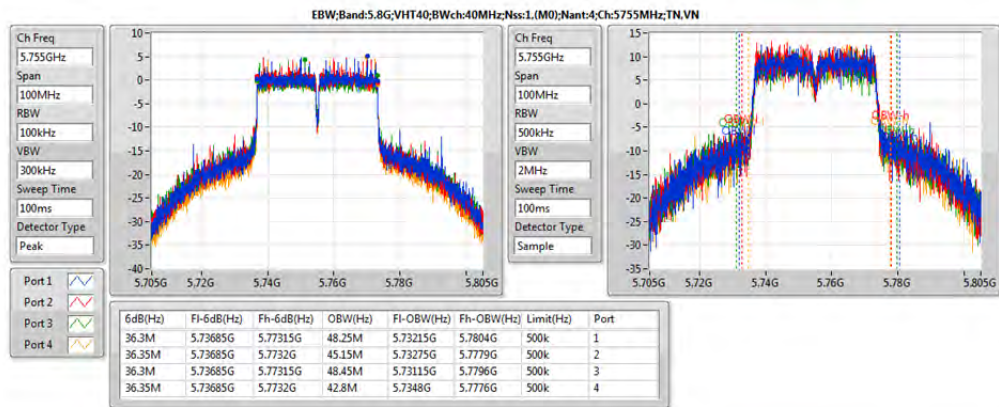
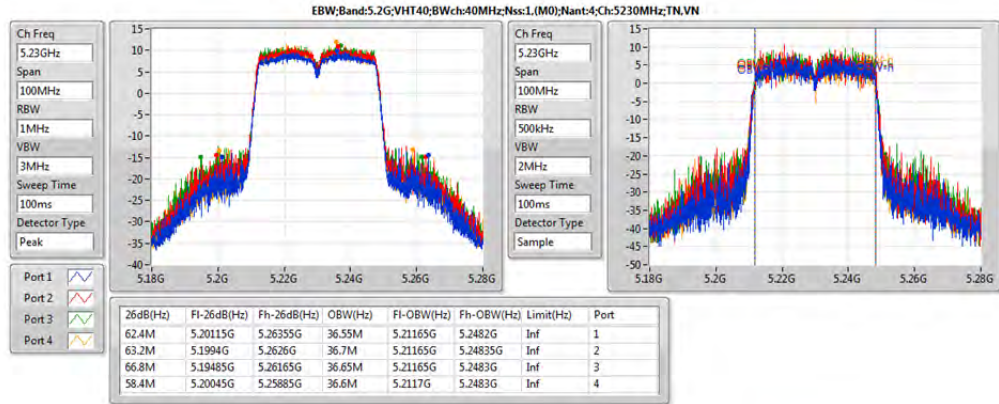
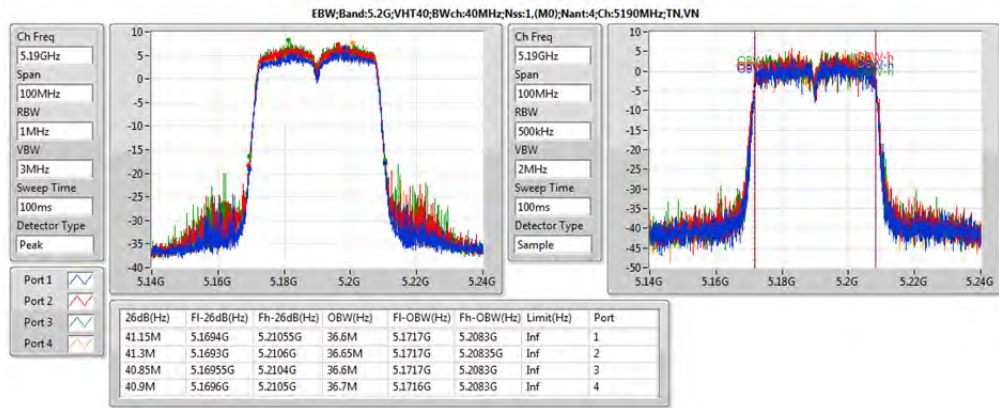
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.2G;11a;Nss1;Ntx4	21.775M	16.825M	16M8D1D	21.45M	16.675M
5.8G;11a;Nss1;Ntx4	16.35M	29.35M	29M3D1D	15.675M	24.325M
5.2G;VHT20;Nss1,(M0);Ntx4	23.275M	17.975M	18M0D1D	21.85M	17.825M
5.8G;VHT20;Nss1,(M0);Ntx4	17.55M	31.05M	31M0D1D	17.15M	25.15M
5.2G;VHT40;Nss1,(M0);Ntx4	66.8M	36.7M	36M7D1D	40.85M	36.55M
5.8G;VHT40;Nss1,(M0);Ntx4	36.35M	61.369M	61M4D1D	36.3M	42.8M
5.2G;VHT80;Nss1,(M0);Ntx4	81.4M	75.162M	75M2D1D	80.5M	74.863M
5.8G;VHT80;Nss1,(M0);Ntx4	75.9M	75.962M	76M0D1D	75.6M	75.762M
5.2G;VHT20,BF;Nss1,(M0);Ntx4	22.475M	17.816M	17M8D1D	21.55M	17.716M
5.8G;VHT20,BF;Nss1,(M0);Ntx4	17.6M	17.766M	17M8D1D	17.55M	17.691M
5.2G;VHT40,BF;Nss1,(M0);Ntx4	40.35M	36.332M	36M3D1D	39.8M	36.132M
5.8G;VHT40,BF;Nss1,(M0);Ntx4	36.35M	36.332M	36M3D1D	36.3M	36.182M
5.2G;VHT80,BF;Nss1,(M0);Ntx4	81.5M	75.062M	75M1D1D	80.6M	74.763M
5.8G;VHT80,BF;Nss1,(M0);Ntx4	76.1M	75.862M	75M9D1D	75.8M	75.762M



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)
5.2G;11a;Nss1;Ntx4;5180	Pass	Inf	21.75M	16.825M	21.625M	16.75M	21.7M	16.75M	21.5M	16.675M
5.2G;11a;Nss1;Ntx4;5200	Pass	Inf	21.65M	16.775M	21.575M	16.775M	21.775M	16.825M	21.45M	16.8M
5.2G;11a;Nss1;Ntx4;5240	Pass	Inf	21.6M	16.825M	21.6M	16.75M	21.5M	16.725M	21.575M	16.775M
5.8G;11a;Nss1;Ntx4;5745	Pass	500k	16.35M	25.525M	16.3M	25.15M	16.275M	28.675M	16.3M	24.325M
5.8G;11a;Nss1;Ntx4;5785	Pass	500k	16.3M	25.975M	16.275M	25.4M	15.675M	28.7M	16.275M	24.725M
5.8G;11a;Nss1;Ntx4;5825	Pass	500k	16.3M	26.9M	16.35M	26.2M	16.025M	29.35M	16.275M	25.2M
5.2G;VHT20;Nss1,(M0);Ntx4;5180	Pass	Inf	21.95M	17.9M	22.1M	17.9M	22.025M	17.925M	22.075M	17.85M
5.2G;VHT20;Nss1,(M0);Ntx4;5200	Pass	Inf	22.05M	17.875M	22.9M	17.95M	21.85M	17.9M	21.85M	17.825M
5.2G;VHT20;Nss1,(M0);Ntx4;5240	Pass	Inf	21.95M	17.95M	21.9M	17.975M	23.275M	17.975M	21.85M	17.95M
5.8G;VHT20;Nss1,(M0);Ntx4;5745	Pass	500k	17.55M	25.95M	17.3M	28.075M	17.55M	29.9M	17.225M	27.575M
5.8G;VHT20;Nss1,(M0);Ntx4;5785	Pass	500k	17.525M	25.15M	17.525M	28.35M	17.5M	30.35M	17.5M	28.475M
5.8G;VHT20;Nss1,(M0);Ntx4;5825	Pass	500k	17.5M	26.2M	17.55M	28.9M	17.15M	31.05M	17.55M	27.625M
5.2G;VHT40;Nss1,(M0);Ntx4;5190	Pass	Inf	41.15M	36.6M	41.3M	36.65M	40.85M	36.6M	40.9M	36.7M
5.2G;VHT40;Nss1,(M0);Ntx4;5230	Pass	Inf	62.4M	36.55M	63.2M	36.7M	66.8M	36.65M	58.4M	36.6M
5.8G;VHT40;Nss1,(M0);Ntx4;5755	Pass	500k	36.3M	48.25M	36.35M	45.15M	36.3M	48.45M	36.35M	42.8M
5.8G;VHT40;Nss1,(M0);Ntx4;5795	Pass	500k	36.3M	58.371M	36.35M	60.27M	36.3M	61.369M	36.3M	59.92M
5.2G;VHT80;Nss1,(M0);Ntx4;5210	Pass	Inf	81.4M	74.863M	80.6M	75.062M	80.5M	75.162M	81.4M	75.062M
5.8G;VHT80;Nss1,(M0);Ntx4;5775	Pass	500k	75.9M	75.762M	75.7M	75.962M	75.7M	75.862M	75.6M	75.862M
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5180	Pass	Inf	21.875M	17.816M	21.625M	17.716M	21.8M	17.791M	22.475M	17.716M
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5200	Pass	Inf	21.775M	17.741M	21.55M	17.766M	22.2M	17.766M	21.875M	17.766M
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5240	Pass	Inf	21.875M	17.791M	21.675M	17.741M	21.7M	17.791M	21.925M	17.741M
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5745	Pass	500k	17.575M	17.766M	17.575M	17.741M	17.575M	17.741M	17.575M	17.741M
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5785	Pass	500k	17.575M	17.766M	17.6M	17.766M	17.575M	17.766M	17.6M	17.741M
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5825	Pass	500k	17.55M	17.766M	17.6M	17.766M	17.575M	17.691M	17.6M	17.716M
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5190	Pass	Inf	40.25M	36.132M	39.8M	36.332M	39.85M	36.232M	39.95M	36.182M
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5230	Pass	Inf	40.1M	36.132M	40.35M	36.232M	40.05M	36.232M	39.95M	36.332M
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5755	Pass	500k	36.35M	36.282M	36.35M	36.332M	36.35M	36.232M	36.3M	36.182M
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5795	Pass	500k	36.3M	36.232M	36.3M	36.232M	36.3M	36.332M	36.35M	36.232M
5.2G;VHT80,BF;Nss1,(M0);Ntx4;5210	Pass	Inf	81.5M	74.763M	81.1M	75.062M	80.6M	74.963M	80.7M	75.062M
5.8G;VHT80,BF;Nss1,(M0);Ntx4;5775	Pass	500k	75.9M	75.762M	75.8M	75.862M	75.9M	75.762M	76.1M	75.862M

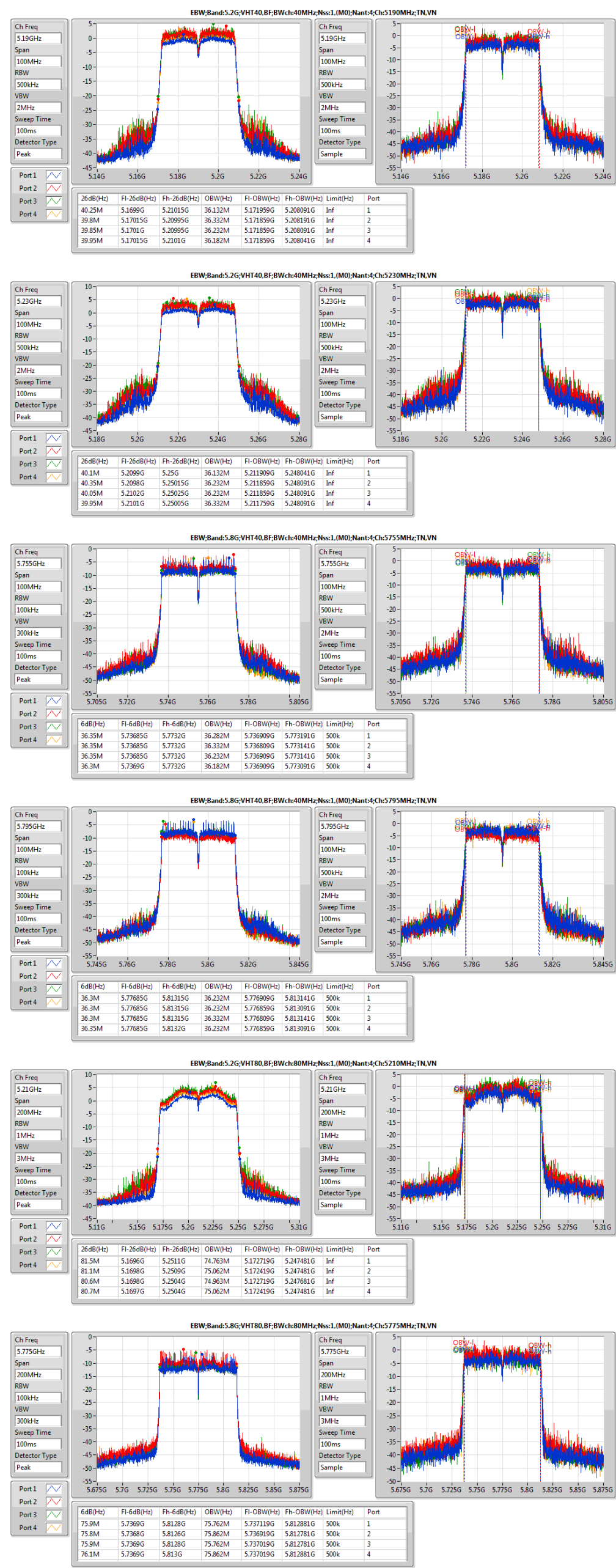






Antenna 2 EBW Result

Appendix B





Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
5.2G;11a;Nss1;Ntx4	27.00	0.50119	30.00	1
5.8G;11a;Nss1;Ntx4	28.05	0.63826	31.05	1.2735
5.2G;VHT20;Nss1,(M0);Ntx4	26.94	0.49431	29.94	0.98628
5.8G;VHT20;Nss1,(M0);Ntx4	27.98	0.62806	30.98	1.25314
5.2G;VHT40;Nss1,(M0);Ntx4	25.32	0.34041	28.32	0.6792
5.8G;VHT40;Nss1,(M0);Ntx4	27.34	0.542	30.34	1.08143
5.2G;VHT80;Nss1,(M0);Ntx4	19.56	0.09036	22.56	0.1803
5.8G;VHT80;Nss1,(M0);Ntx4	22.89	0.19454	25.89	0.38815
5.2G;VHT20,BF;Nss1,(M0);Ntx4	26.72	0.46989	35.74	3.74973
5.8G;VHT20,BF;Nss1,(M0);Ntx4	26.94	0.49431	35.96	3.94457
5.2G;VHT40,BF;Nss1,(M0);Ntx4	25.55	0.35892	34.57	2.86418
5.8G;VHT40,BF;Nss1,(M0);Ntx4	26.92	0.49204	35.94	3.92645
5.2G;VHT80,BF;Nss1,(M0);Ntx4	19.96	0.09908	28.98	0.79068
5.8G;VHT80,BF;Nss1,(M0);Ntx4	23.41	0.21928	32.43	1.74985



Result

Mode	Result	DG (dBi)	EIRP (dBm)	EIRP Lim. (dBm)	Sum (dBm)	Sum Lim. (dBm)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)
5.2G;11a;Nss1;Ntx4;5180	Pass	3.00	27.64	36.00	24.64	30.00	18.26	18.85	19.01	18.3
5.2G;11a;Nss1;Ntx4;5200	Pass	3.00	30.00	36.00	27.00	30.00	20.86	20.73	21.72	20.52
5.2G;11a;Nss1;Ntx4;5240	Pass	3.00	29.06	36.00	26.06	30.00	19.63	20.14	20.72	19.56
5.8G;11a;Nss1;Ntx4;5745	Pass	3.00	31.05	36.00	28.05	30.00	22.55	21.79	21.56	22.15
5.8G;11a;Nss1;Ntx4;5785	Pass	3.00	30.87	36.00	27.87	30.00	22.14	21.21	21.92	22.05
5.8G;11a;Nss1;Ntx4;5825	Pass	3.00	30.67	36.00	27.67	30.00	21.83	20.87	22.05	21.74
5.2G;VHT20;Nss1,(M0);Ntx4;5180	Pass	3.00	27.56	36.00	24.56	30.00	17.78	18.96	19.01	18.27
5.2G;VHT20;Nss1,(M0);Ntx4;5200	Pass	3.00	29.94	36.00	26.94	30.00	20.32	21.48	21.02	20.78
5.2G;VHT20;Nss1,(M0);Ntx4;5240	Pass	3.00	28.25	36.00	25.25	30.00	18.47	19.74	19.68	18.91
5.8G;VHT20;Nss1,(M0);Ntx4;5745	Pass	3.00	30.51	36.00	27.51	30.00	20.8	20.89	21.58	22.46
5.8G;VHT20;Nss1,(M0);Ntx4;5785	Pass	3.00	30.98	36.00	27.98	30.00	22.16	21.23	22.21	22.17
5.8G;VHT20;Nss1,(M0);Ntx4;5825	Pass	3.00	30.44	36.00	27.44	30.00	21.89	20.84	21.02	21.82
5.2G;VHT40;Nss1,(M0);Ntx4;5190	Pass	3.00	23.26	36.00	20.26	30.00	13.54	14.84	14.63	13.83
5.2G;VHT40;Nss1,(M0);Ntx4;5230	Pass	3.00	28.32	36.00	25.32	30.00	18.47	19.59	20	18.97
5.8G;VHT40;Nss1,(M0);Ntx4;5755	Pass	3.00	29.60	36.00	26.60	30.00	20.83	20.03	20.75	20.67
5.8G;VHT40;Nss1,(M0);Ntx4;5795	Pass	3.00	30.34	36.00	27.34	30.00	21.52	20.85	21.01	21.82
5.2G;VHT80;Nss1,(M0);Ntx4;5210	Pass	3.00	22.56	36.00	19.56	30.00	12.89	14.14	13.79	13.21
5.8G;VHT80;Nss1,(M0);Ntx4;5775	Pass	3.00	25.89	36.00	22.89	30.00	17.16	16.65	16.95	16.68
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5180	Pass	9.02	33.58	36.00	24.56	26.98	17.78	18.96	19.01	18.27
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5200	Pass	9.02	35.74	36.00	26.72	26.98	20.21	20.83	21.3	20.39
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5240	Pass	9.02	35.34	36.00	26.32	26.98	20.12	20.37	20.73	19.95
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5745	Pass	9.02	35.96	36.00	26.94	26.98	20.28	20.24	21.02	21.93
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5785	Pass	9.02	35.95	36.00	26.93	26.98	21.06	20.2	21.18	21.11
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5825	Pass	9.02	35.64	36.00	26.62	26.98	21.05	20.06	20.22	20.96
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5190	Pass	9.02	29.76	36.00	20.74	26.98	14.08	15.21	15.14	14.34
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5230	Pass	9.02	34.57	36.00	25.55	26.98	18.77	19.79	20.21	19.21
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5755	Pass	9.02	35.94	36.00	26.92	26.98	21.03	20.19	21.22	21.09
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5795	Pass	9.02	35.76	36.00	26.74	26.98	20.97	20.28	20.42	21.16
5.2G;VHT80,BF;Nss1,(M0);Ntx4;5210	Pass	9.02	28.98	36.00	19.96	26.98	13.42	14.33	14.51	13.38
5.8G;VHT80,BF;Nss1,(M0);Ntx4;5775	Pass	9.02	32.43	36.00	23.41	26.98	17.68	17.18	17.44	17.24



Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
5.2G;11a;Nss1;Ntx4	20.40	0.10965	29.80	0.95499
5.8G;11a;Nss1;Ntx4	26.57	0.45394	35.97	3.95367
5.2G;VHT20;Nss1,(M0);Ntx4	20.43	0.11041	29.83	0.96161
5.8G;VHT20;Nss1,(M0);Ntx4	26.54	0.45082	35.94	3.92645
5.2G;VHT40;Nss1,(M0);Ntx4	21.28	0.13428	30.68	1.1695
5.8G;VHT40;Nss1,(M0);Ntx4	26.47	0.44361	35.87	3.86367
5.2G;VHT80;Nss1,(M0);Ntx4	16.97	0.04977	26.37	0.43351
5.8G;VHT80;Nss1,(M0);Ntx4	21.48	0.1406	30.88	1.22462
5.2G;VHT20,BF;Nss1,(M0);Ntx4	20.40	0.10965	35.82	3.81944
5.8G;VHT20,BF;Nss1,(M0);Ntx4	20.33	0.10789	35.75	3.75837
5.2G;VHT40,BF;Nss1,(M0);Ntx4	20.32	0.10765	35.74	3.74973
5.8G;VHT40,BF;Nss1,(M0);Ntx4	20.28	0.10666	35.70	3.71535
5.2G;VHT80,BF;Nss1,(M0);Ntx4	19.19	0.08299	34.61	2.89068
5.8G;VHT80,BF;Nss1,(M0);Ntx4	20.41	0.1099	35.83	3.82825



Result

Mode	Result	DG (dBi)	EIRP (dBm)	EIRP Lim. (dBm)	Sum (dBm)	Sum Lim. (dBm)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)
5.2G;11a;Nss1;Ntx4;5180	Pass	9.40	29.74	36.00	20.34	26.60	13.77	14.68	14.86	13.87
5.2G;11a;Nss1;Ntx4;5200	Pass	9.40	29.70	36.00	20.30	26.60	13.83	14.65	14.78	13.75
5.2G;11a;Nss1;Ntx4;5240	Pass	9.40	29.80	36.00	20.40	26.60	13.94	14.87	14.74	13.89
5.8G;11a;Nss1;Ntx4;5745	Pass	9.40	35.66	36.00	26.26	26.60	20.29	19.68	20.69	20.25
5.8G;11a;Nss1;Ntx4;5785	Pass	9.40	35.86	36.00	26.46	26.60	20.81	19.62	20.81	20.42
5.8G;11a;Nss1;Ntx4;5825	Pass	9.40	35.97	36.00	26.57	26.60	20.46	19.65	21.47	20.41
5.2G;VHT20;Nss1,(M0);Ntx4;5180	Pass	9.40	29.83	36.00	20.43	26.60	13.58	14.89	15.08	13.89
5.2G;VHT20;Nss1,(M0);Ntx4;5200	Pass	9.40	29.79	36.00	20.39	26.60	13.61	14.92	14.75	14.09
5.2G;VHT20;Nss1,(M0);Ntx4;5240	Pass	9.40	29.80	36.00	20.40	26.60	13.73	14.96	14.66	14.05
5.8G;VHT20;Nss1,(M0);Ntx4;5745	Pass	9.40	35.88	36.00	26.48	26.60	20.35	20.01	20.78	20.66
5.8G;VHT20;Nss1,(M0);Ntx4;5785	Pass	9.40	35.94	36.00	26.54	26.60	20.56	19.87	21.11	20.45
5.8G;VHT20;Nss1,(M0);Ntx4;5825	Pass	9.40	35.92	36.00	26.52	26.60	20.53	19.83	20.92	20.65
5.2G;VHT40;Nss1,(M0);Ntx4;5190	Pass	9.40	26.77	36.00	17.37	26.60	10.66	12.06	11.58	10.96
5.2G;VHT40;Nss1,(M0);Ntx4;5230	Pass	9.40	30.68	36.00	21.28	26.60	14.54	15.67	15.88	14.78
5.8G;VHT40;Nss1,(M0);Ntx4;5755	Pass	9.40	35.19	36.00	25.79	26.60	20.02	19.26	19.95	19.79
5.8G;VHT40;Nss1,(M0);Ntx4;5795	Pass	9.40	35.87	36.00	26.47	26.60	20.81	20.11	20.06	20.76
5.2G;VHT80;Nss1,(M0);Ntx4;5210	Pass	9.40	26.37	36.00	16.97	26.60	10.15	11.31	11.55	10.67
5.8G;VHT80;Nss1,(M0);Ntx4;5775	Pass	9.40	30.88	36.00	21.48	26.60	15.83	15.16	15.28	15.55
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5180	Pass	15.42	35.76	36.00	20.34	20.58	13.77	14.68	14.86	13.87
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5200	Pass	15.42	35.72	36.00	20.30	20.58	13.83	14.65	14.78	13.75
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5240	Pass	15.42	35.82	36.00	20.40	20.58	13.94	14.87	14.74	13.89
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5745	Pass	15.42	35.71	36.00	20.29	20.58	14.2	14.4	14.42	14.06
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5785	Pass	15.42	35.63	36.00	20.21	20.58	14.55	14.24	14.3	13.63
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5825	Pass	15.42	35.75	36.00	20.33	20.58	14.42	14.75	14.25	13.74
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5190	Pass	15.42	34.22	36.00	18.80	20.58	12.3	13.14	13.28	12.31
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5230	Pass	15.42	35.74	36.00	20.32	20.58	13.62	14.67	14.75	14.07
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5755	Pass	15.42	35.70	36.00	20.28	20.58	14.21	14.57	14.37	13.87
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5795	Pass	15.42	35.68	36.00	20.26	20.58	14.23	14.62	14.22	13.84
5.2G;VHT80,BF;Nss1,(M0);Ntx4;5210	Pass	15.42	34.61	36.00	19.19	20.58	12.23	13.7	13.81	12.75
5.8G;VHT80,BF;Nss1,(M0);Ntx4;5775	Pass	15.42	35.83	36.00	20.41	20.58	14.42	14.5	14.61	13.99



Summary

Mode	PD (dBm/RBW)	EIRP.PD (dBm/RBW)
5.2G;11a;Nss1;Ntx4	13.55	22.57
5.8G;11a;Nss1;Ntx4	13.40	22.42
5.2G;VHT20;Nss1,(M0);Ntx4	13.83	22.85
5.8G;VHT20;Nss1,(M0);Ntx4	12.99	22.01
5.2G;VHT40;Nss1,(M0);Ntx4	11.15	20.17
5.8G;VHT40;Nss1,(M0);Ntx4	9.95	18.97
5.2G;VHT80;Nss1,(M0);Ntx4	2.76	11.79
5.8G;VHT80;Nss1,(M0);Ntx4	2.57	11.59
5.2G;VHT20,BF;Nss1,(M0);Ntx4	13.73	22.76
5.8G;VHT20,BF;Nss1,(M0);Ntx4	11.71	20.73
5.2G;VHT40,BF;Nss1,(M0);Ntx4	8.88	17.90
5.8G;VHT40,BF;Nss1,(M0);Ntx4	9.04	18.06
5.2G;VHT80,BF;Nss1,(M0);Ntx4	2.63	11.65
5.8G;VHT80,BF;Nss1,(M0);Ntx4	3.33	12.35



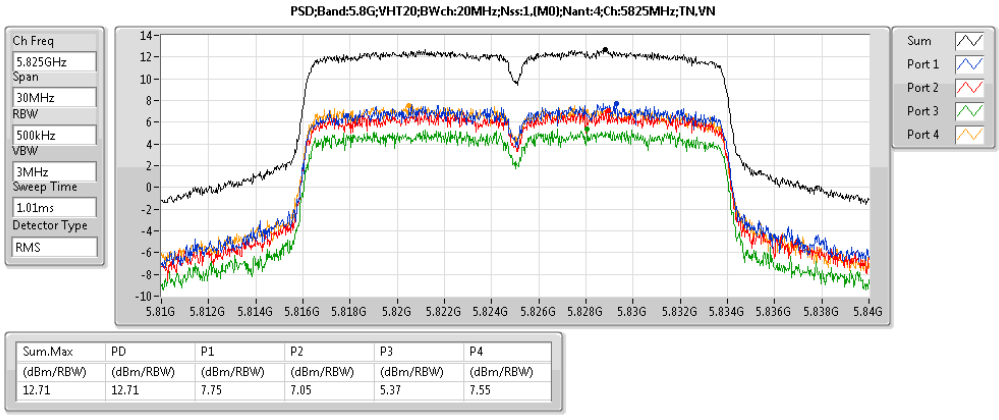
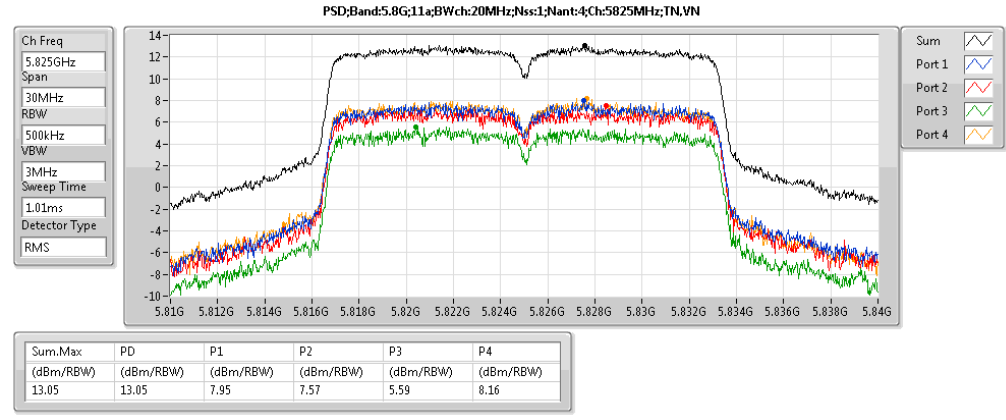
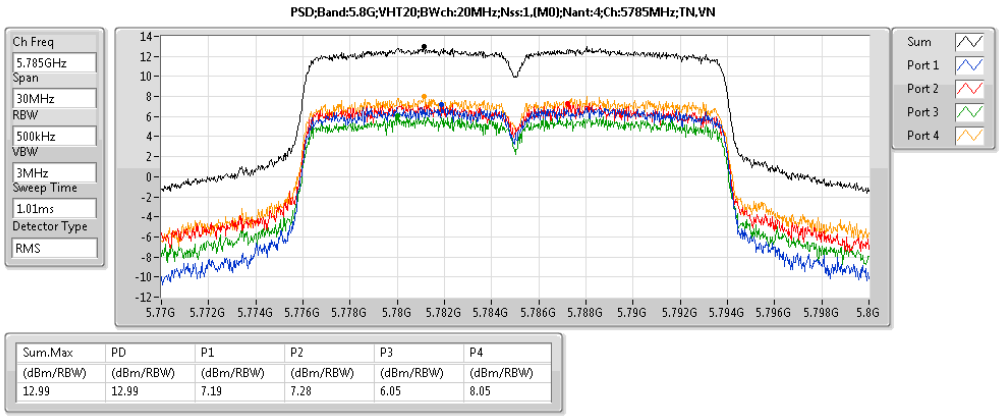
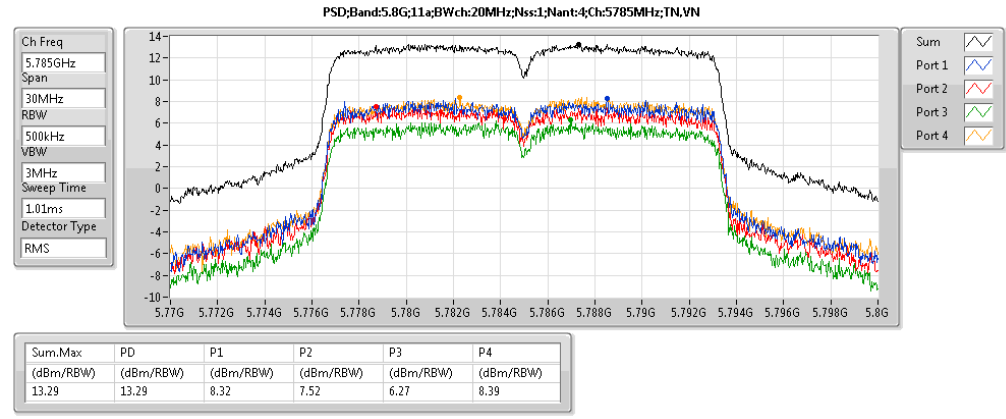
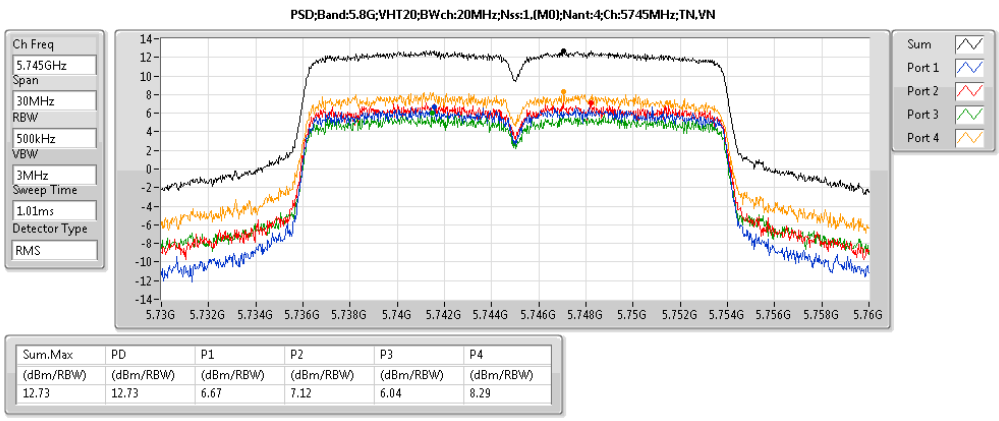
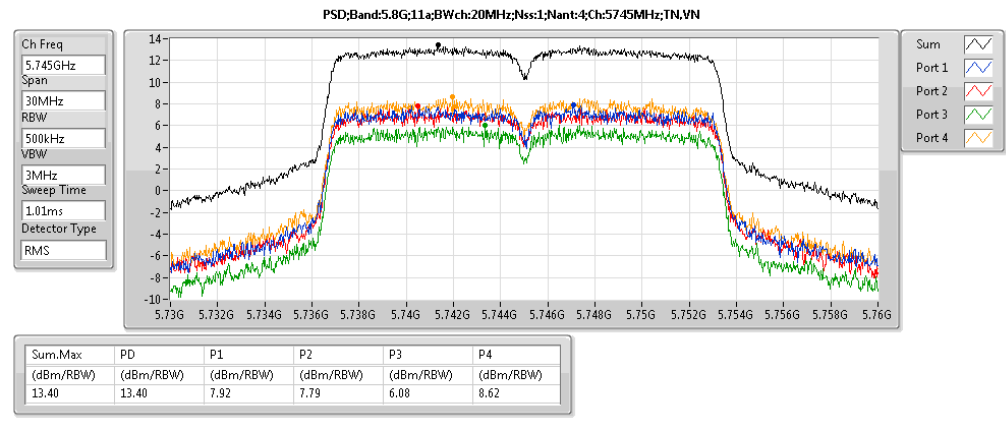
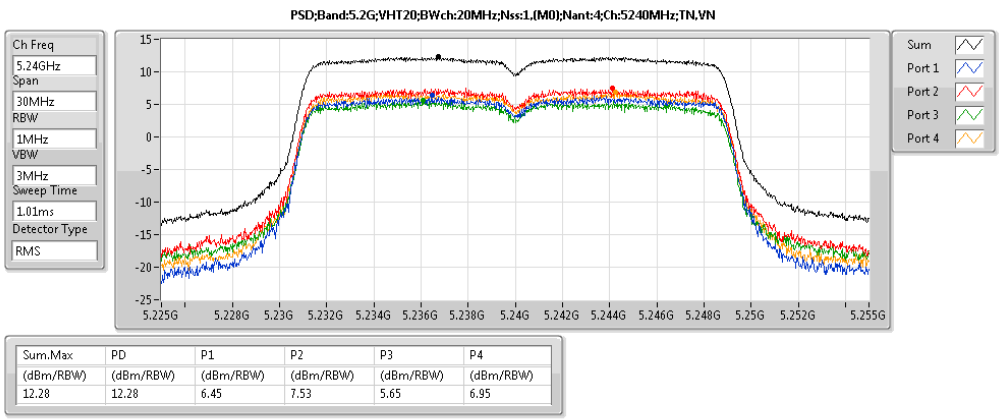
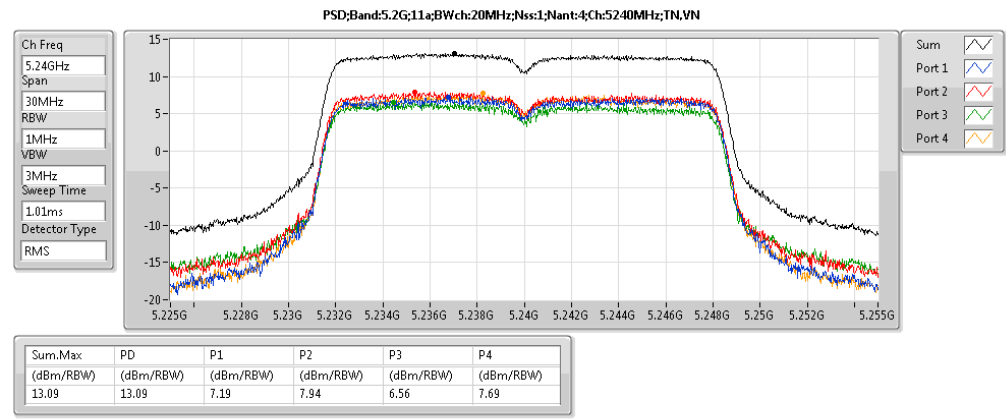
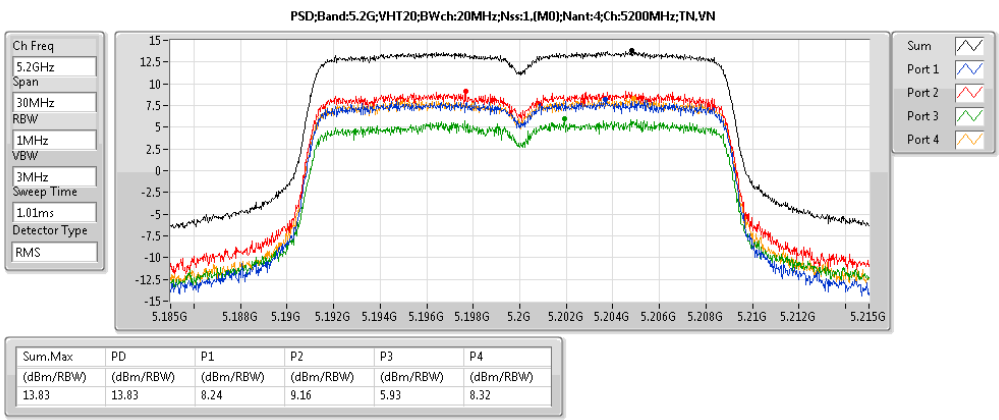
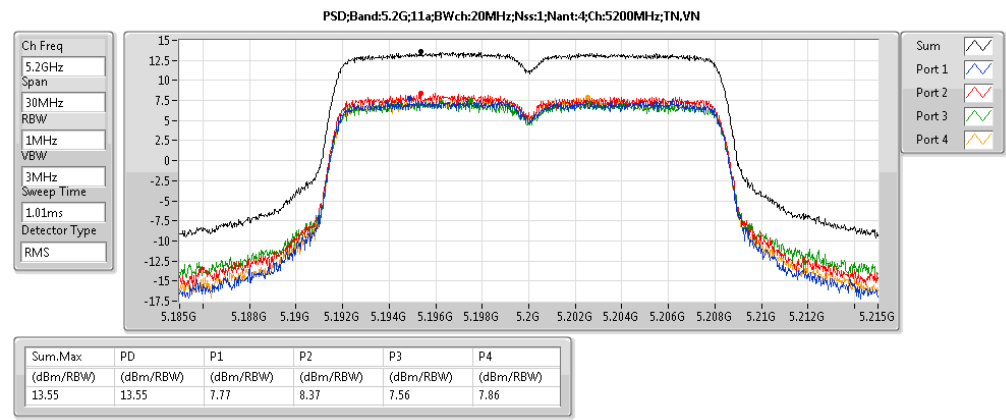
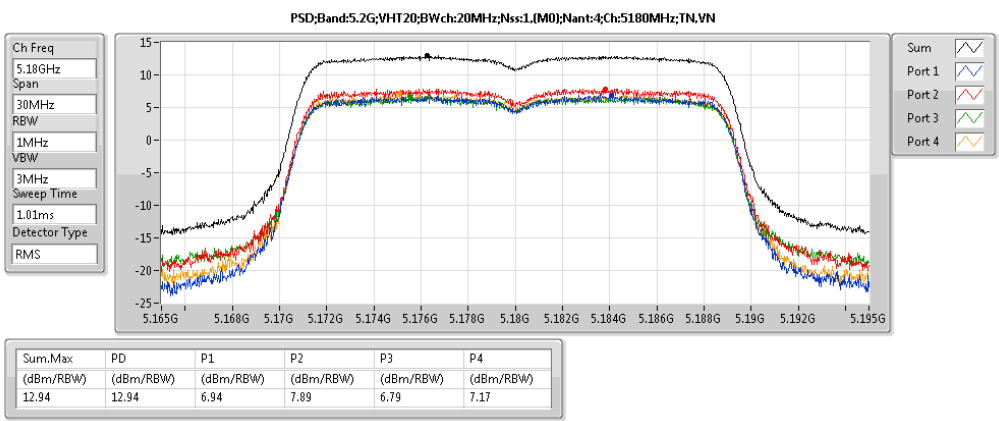
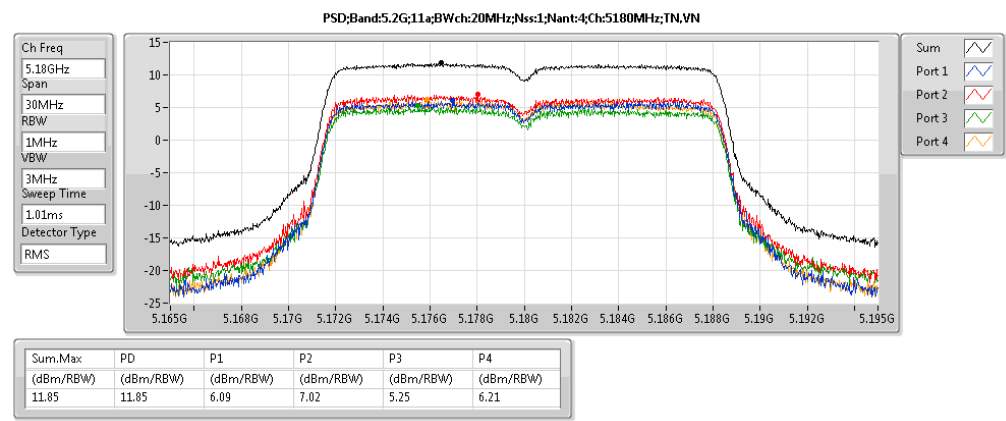
Result

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)
5.2G;11a;Nss1;Ntx4;5180	Pass	1M	1M	0.00	9.02	11.85	11.85	13.98	20.87	Inf	6.09	7.02	5.25	6.21
5.2G;11a;Nss1;Ntx4;5200	Pass	1M	1M	0.00	9.02	13.55	13.55	13.98	22.57	Inf	7.77	8.37	7.56	7.86
5.2G;11a;Nss1;Ntx4;5240	Pass	1M	1M	0.00	9.02	13.09	13.09	13.98	22.11	Inf	7.19	7.94	6.56	7.69
5.8G;11a;Nss1;Ntx4;5745	Pass	500k	500k	0.00	9.02	13.40	13.40	26.98	22.42	32.98	7.92	7.79	6.08	8.62
5.8G;11a;Nss1;Ntx4;5785	Pass	500k	500k	0.00	9.02	13.29	13.29	26.98	22.31	32.98	8.32	7.52	6.27	8.39
5.8G;11a;Nss1;Ntx4;5825	Pass	500k	500k	0.00	9.02	13.05	13.05	26.98	22.07	32.98	7.95	7.57	5.59	8.16
5.2G;VHT20;Nss1,(M0);Ntx4;5180	Pass	1M	1M	0.00	9.02	12.94	12.94	13.98	21.96	Inf	6.94	7.89	6.79	7.17
5.2G;VHT20;Nss1,(M0);Ntx4;5200	Pass	1M	1M	0.00	9.02	13.83	13.83	13.98	22.85	Inf	8.24	9.16	5.93	8.32
5.2G;VHT20;Nss1,(M0);Ntx4;5240	Pass	1M	1M	0.00	9.02	12.28	12.28	13.98	21.30	Inf	6.45	7.53	5.65	6.95
5.8G;VHT20;Nss1,(M0);Ntx4;5745	Pass	500k	500k	0.00	9.02	12.73	12.73	26.98	21.75	32.98	6.67	7.12	6.04	8.29
5.8G;VHT20;Nss1,(M0);Ntx4;5785	Pass	500k	500k	0.00	9.02	12.99	12.99	26.98	22.01	32.98	7.19	7.28	6.05	8.05
5.8G;VHT20;Nss1,(M0);Ntx4;5825	Pass	500k	500k	0.00	9.02	12.71	12.71	26.98	21.73	32.98	7.75	7.05	5.37	7.55
5.2G;VHT40;Nss1,(M0);Ntx4;5190	Pass	1M	1M	0.00	9.02	3.93	3.93	13.98	12.95	Inf	-1.57	-0.64	-3.79	-1.69
5.2G;VHT40;Nss1,(M0);Ntx4;5230	Pass	1M	1M	0.00	9.02	11.15	11.15	13.98	20.17	Inf	4.84	5.78	6.09	5.04
5.8G;VHT40;Nss1,(M0);Ntx4;5755	Pass	500k	500k	0.00	9.02	9.26	9.26	26.98	18.28	32.98	3.27	3.29	3.46	3.96
5.8G;VHT40;Nss1,(M0);Ntx4;5795	Pass	500k	500k	0.00	9.02	9.95	9.95	26.98	18.97	32.98	4.20	3.75	4.06	4.90
5.2G;VHT80;Nss1,(M0);Ntx4;5210	Pass	1M	1M	0.00	9.02	2.76	2.76	13.98	11.79	Inf	-2.66	-1.94	-5.46	-2.69
5.8G;VHT80;Nss1,(M0);Ntx4;5775	Pass	500k	500k	0.00	9.02	2.57	2.57	26.98	11.59	32.98	-2.50	-2.55	-5.60	-2.74
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5180	Pass	1M	1M	0.00	9.02	11.05	11.05	13.98	20.07	Inf	5.37	6.50	2.49	5.64
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5200	Pass	1M	1M	0.00	9.02	13.73	13.73	13.98	22.76	Inf	8.06	8.77	7.57	8.19
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5240	Pass	1M	1M	0.00	9.02	13.27	13.27	13.98	22.29	Inf	7.58	8.71	5.74	7.96
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5745	Pass	500k	500k	0.00	9.02	11.71	11.71	26.98	20.73	32.98	6.01	5.86	6.11	6.87
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5785	Pass	500k	500k	0.00	9.02	11.18	11.18	26.98	20.20	32.98	5.99	5.73	3.33	6.48
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5825	Pass	500k	500k	0.00	9.02	11.27	11.27	26.98	20.29	32.98	6.25	5.73	3.68	6.54
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5190	Pass	1M	1M	0.00	9.02	5.42	5.42	13.98	14.45	Inf	-0.38	1.63	-2.83	-0.35
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5230	Pass	1M	1M	0.00	9.02	8.88	8.88	13.98	17.90	Inf	3.31	4.36	1.09	3.59
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5755	Pass	500k	500k	0.00	9.02	9.04	9.04	26.98	18.06	32.98	3.39	3.52	3.28	3.79
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5795	Pass	500k	500k	0.00	9.02	8.97	8.97	26.98	17.99	32.98	3.58	3.02	3.04	3.76
5.2G;VHT80,BF;Nss1,(M0);Ntx4;5210	Pass	1M	1M	0.00	9.02	2.63	2.63	13.98	11.65	Inf	-4.00	-2.62	-2.37	-3.11
5.8G;VHT80,BF;Nss1,(M0);Ntx4;5775	Pass	500k	500k	0.00	9.02	3.33	3.33	26.98	12.35	32.98	-2.65	-2.35	-2.13	-2.28



Antenna 1 PSD Result

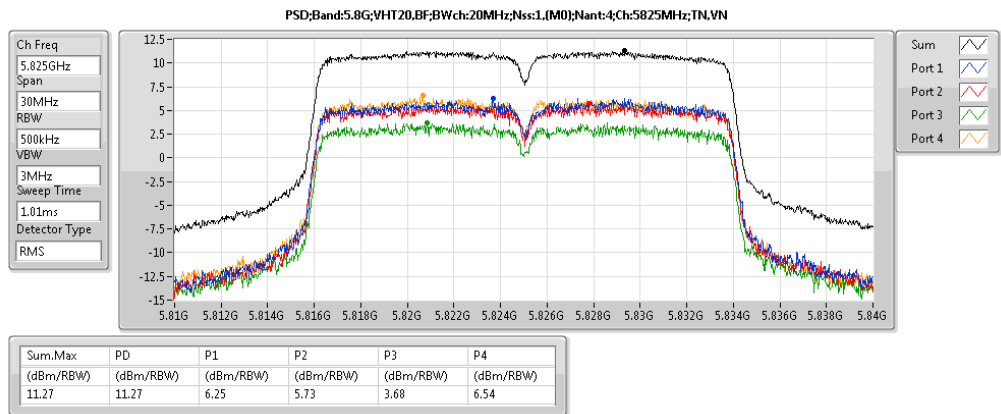
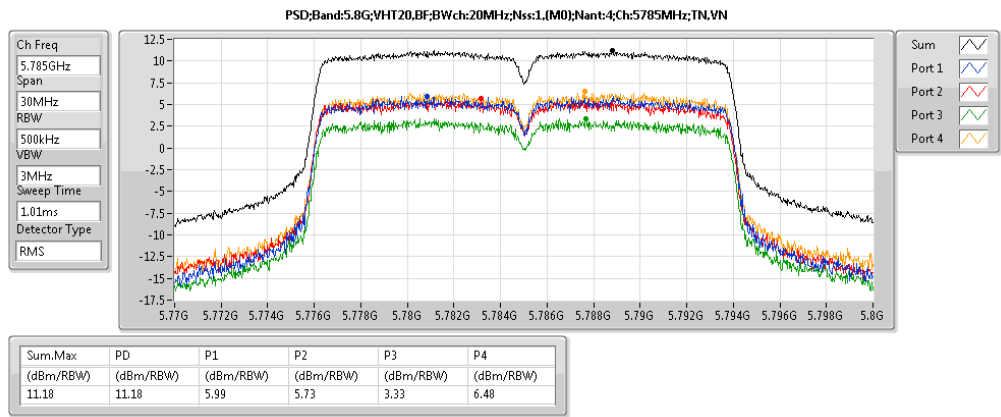
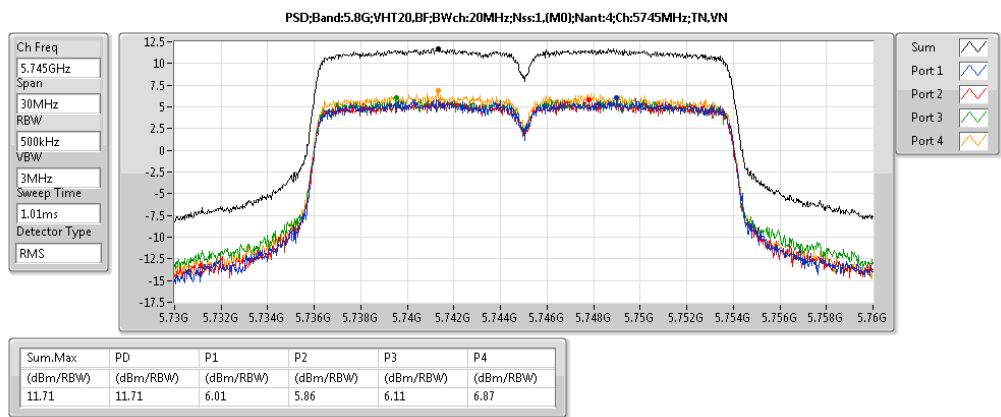
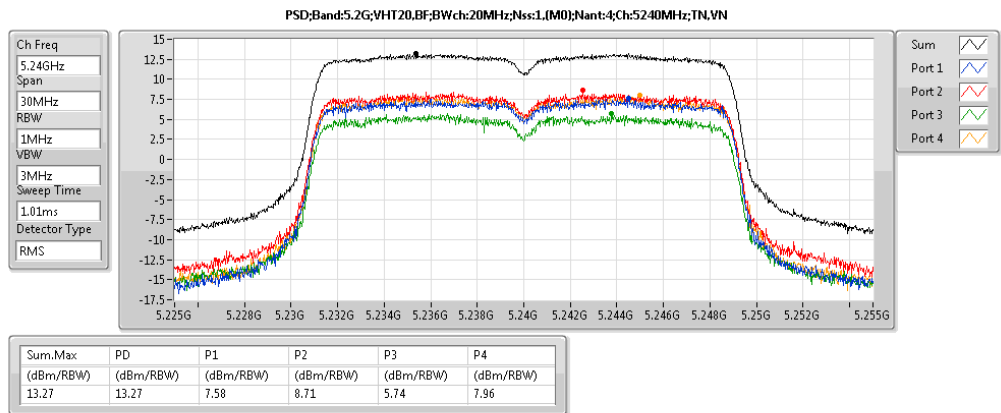
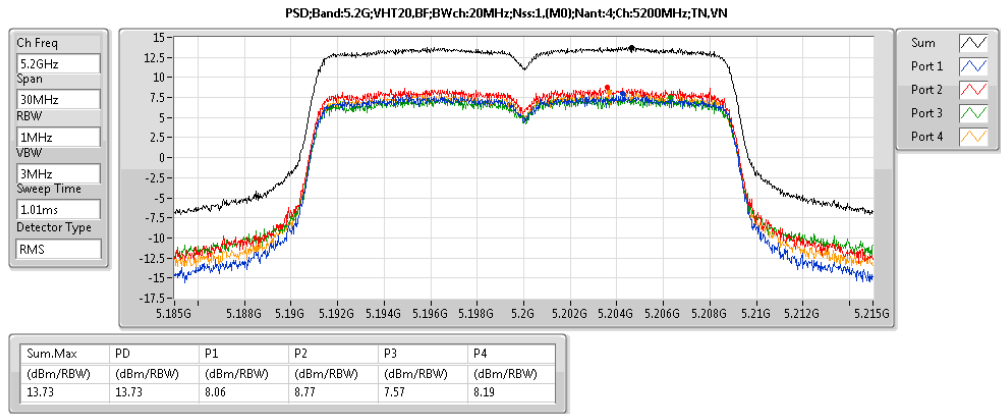
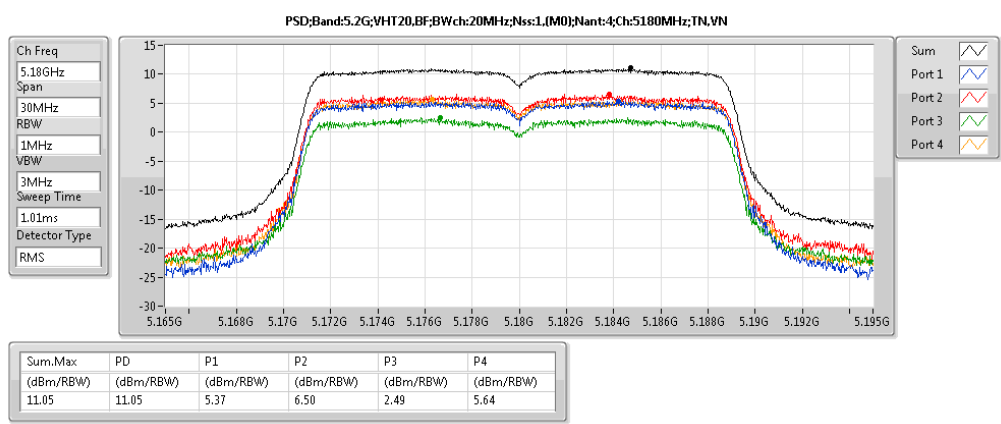
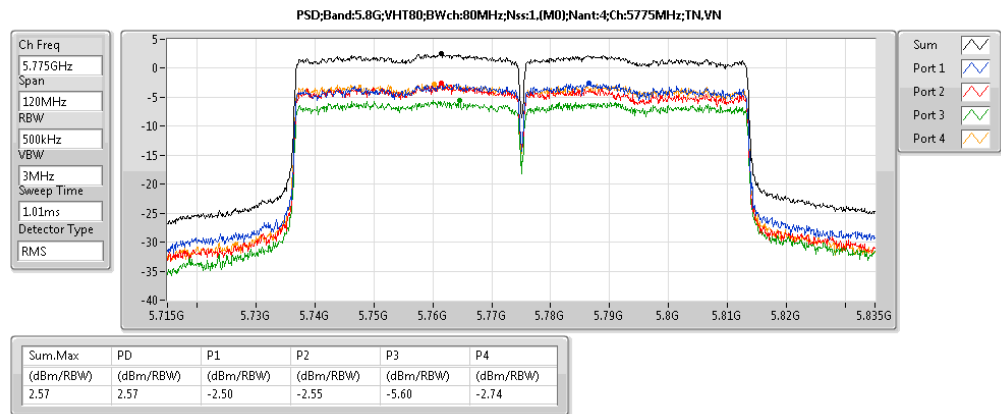
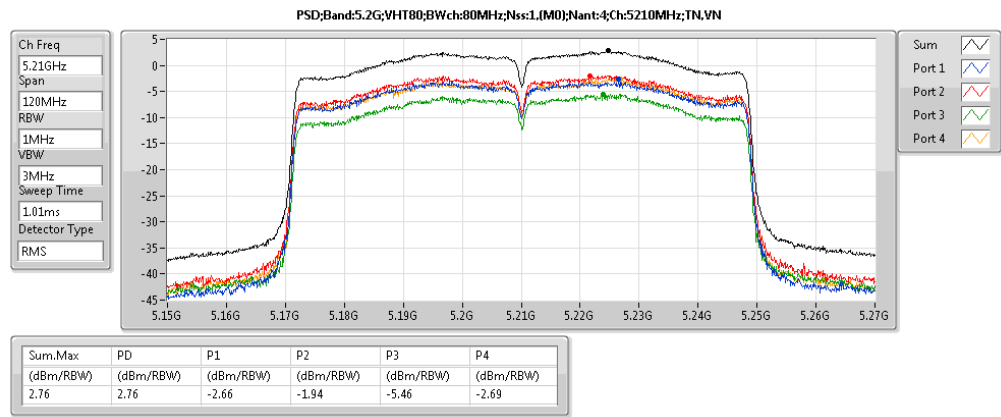
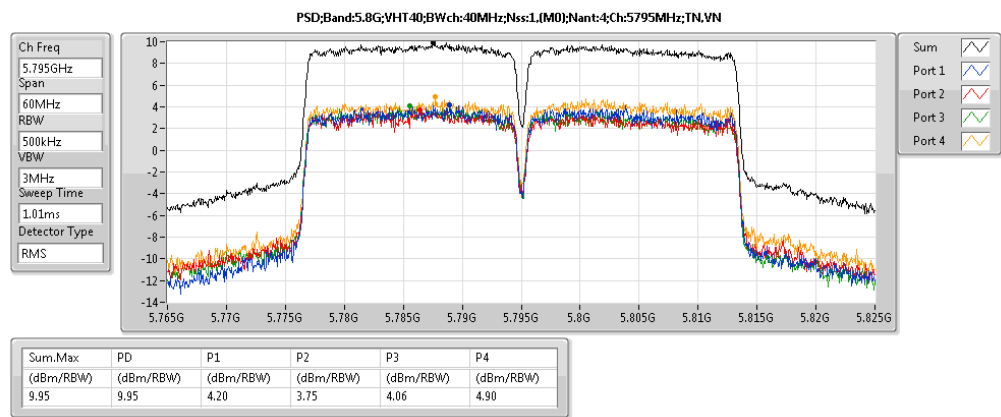
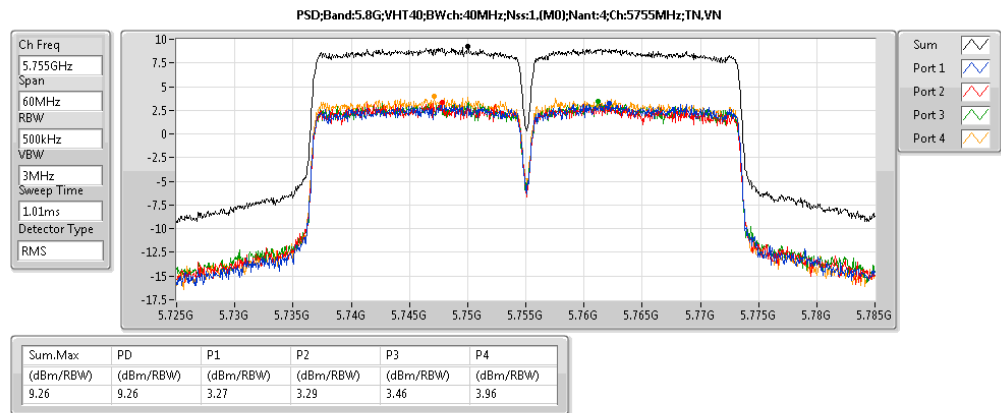
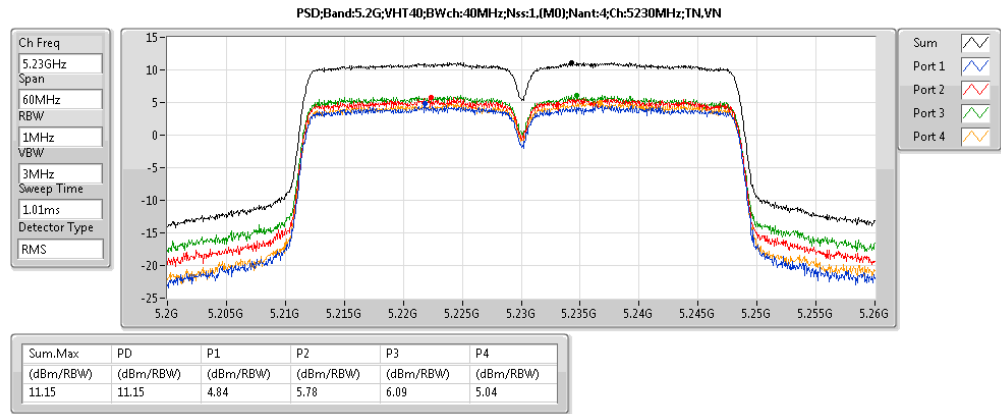
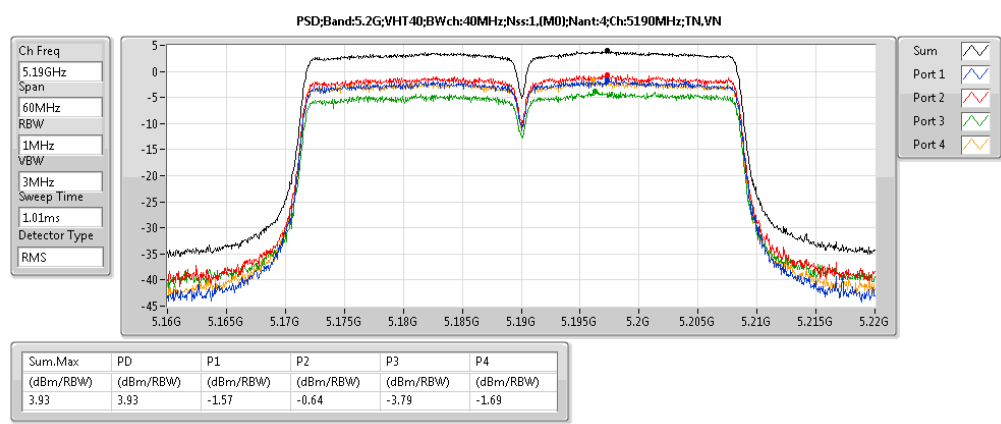
Appendix D





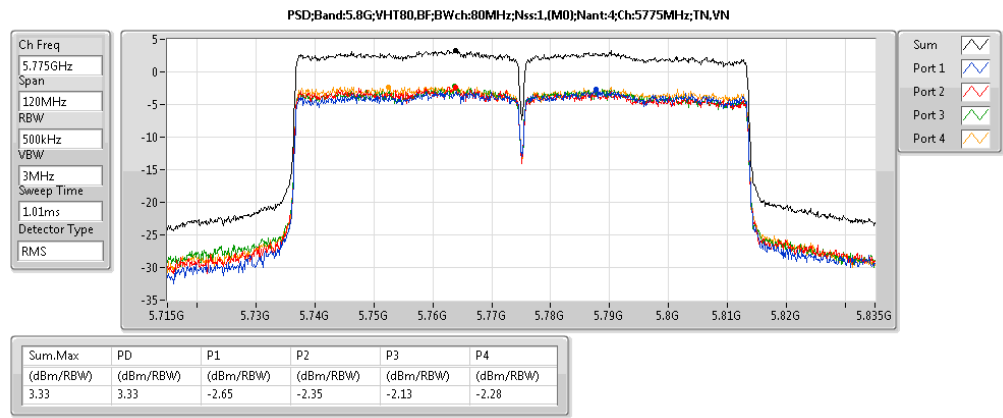
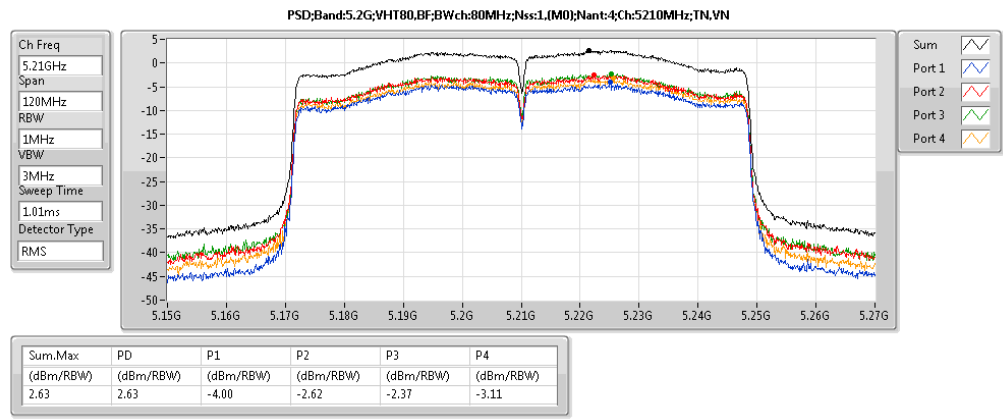
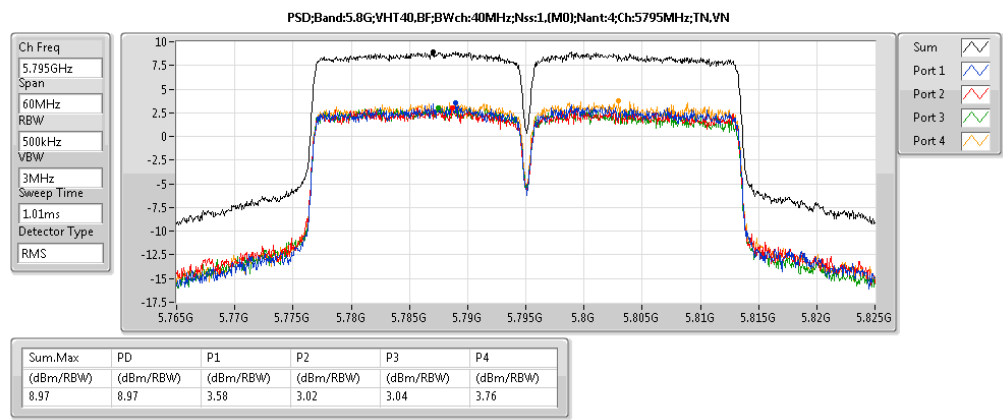
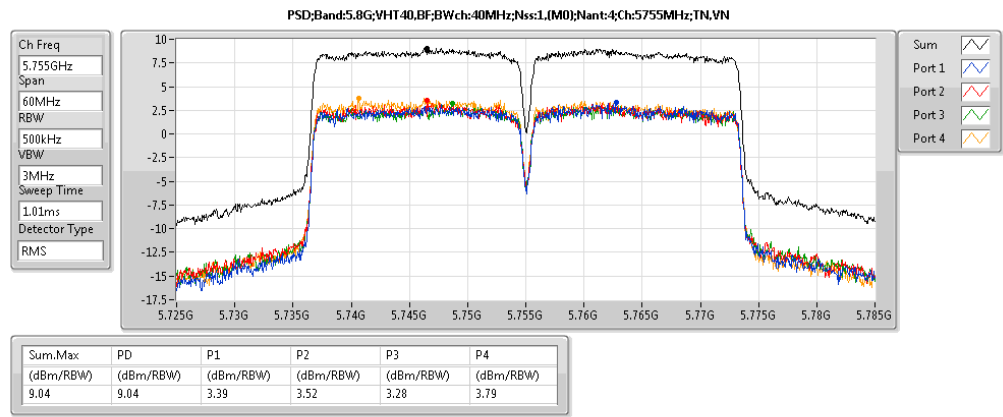
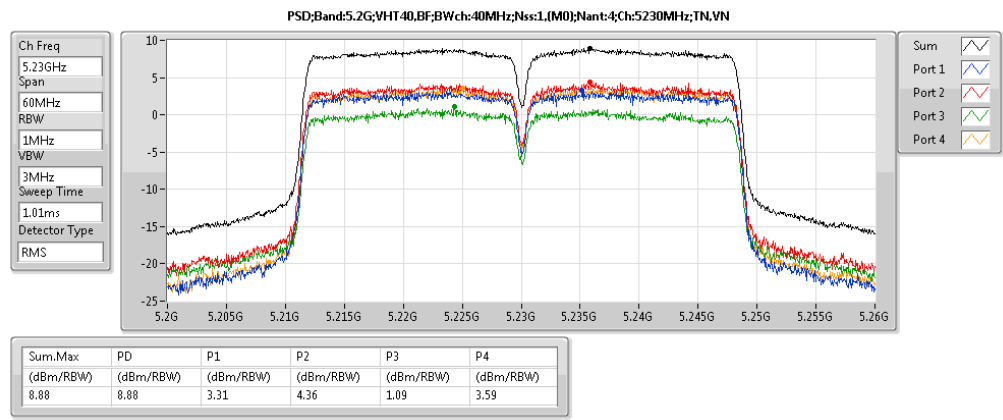
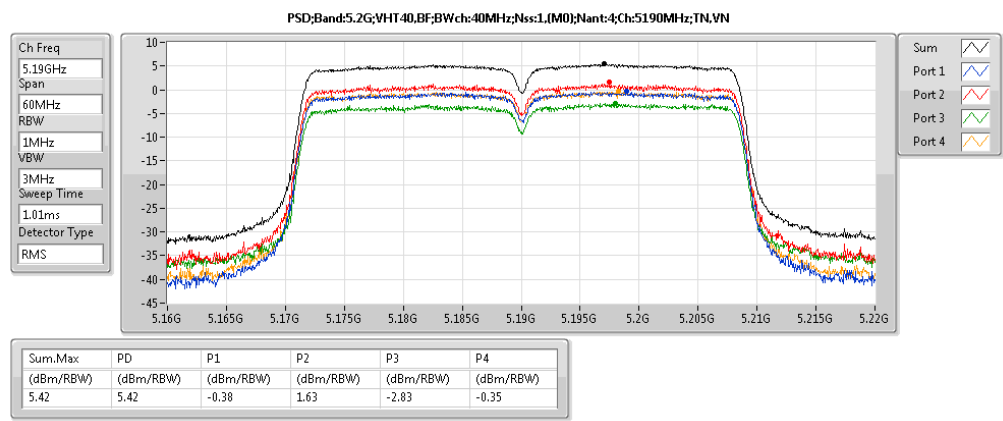
Antenna 1 PSD Result

Appendix D





Antenna 1 PSD Result





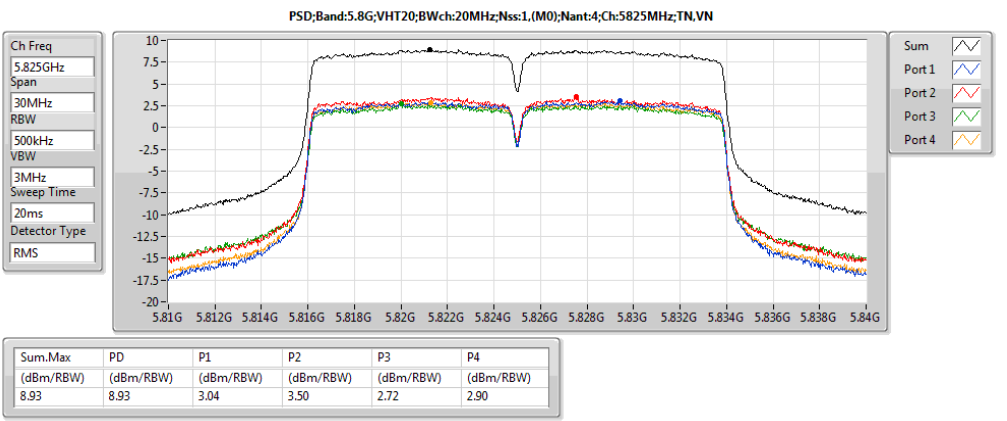
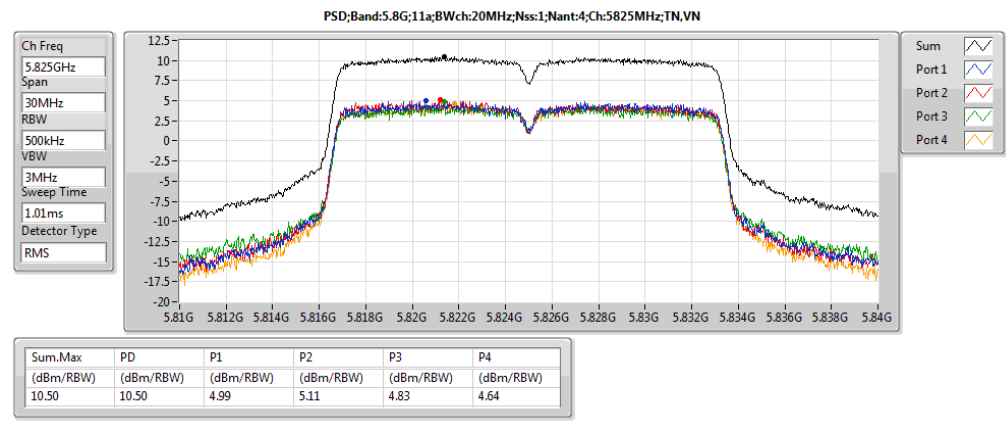
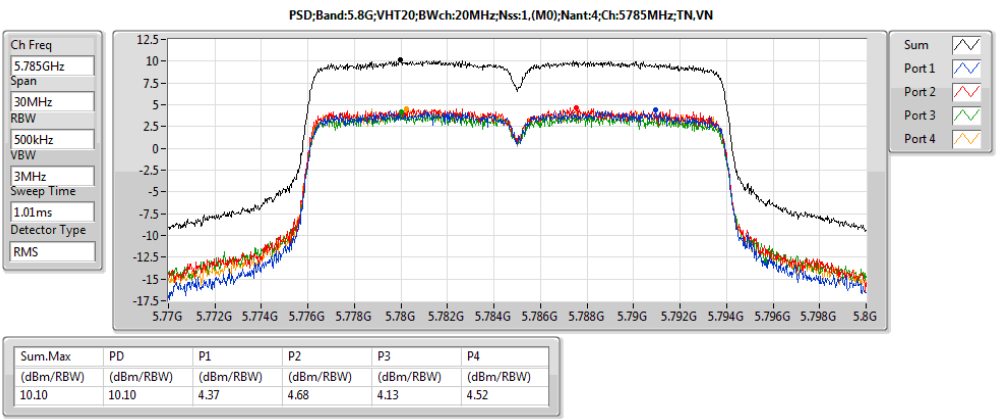
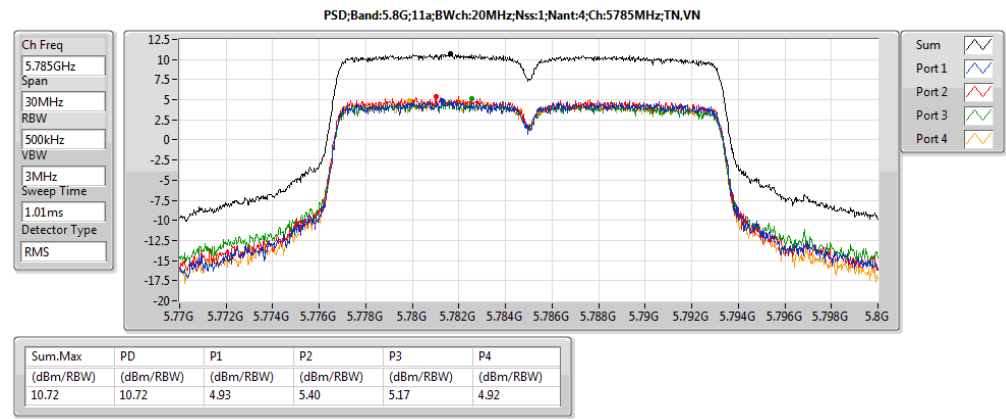
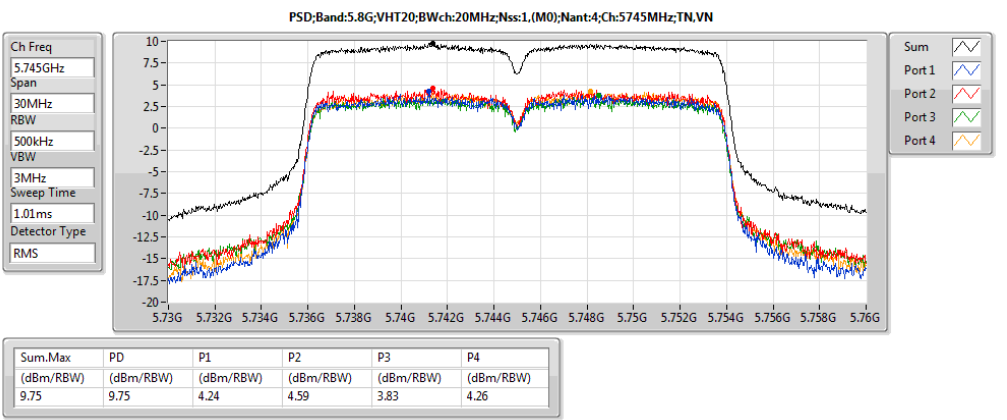
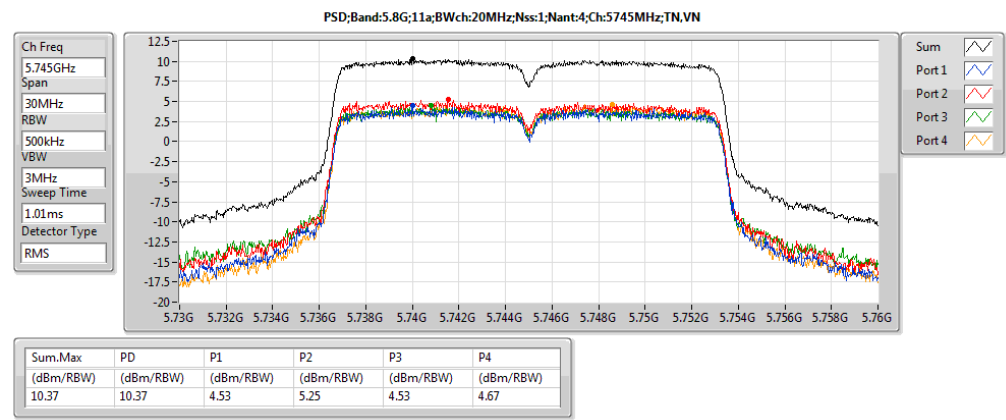
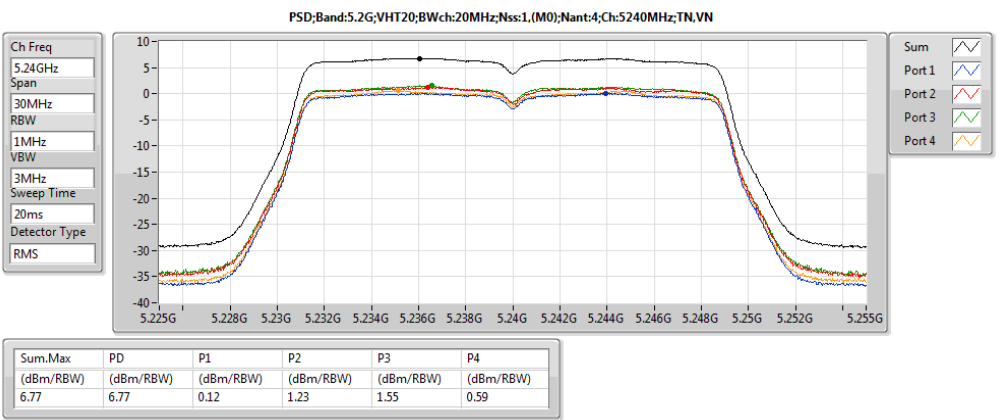
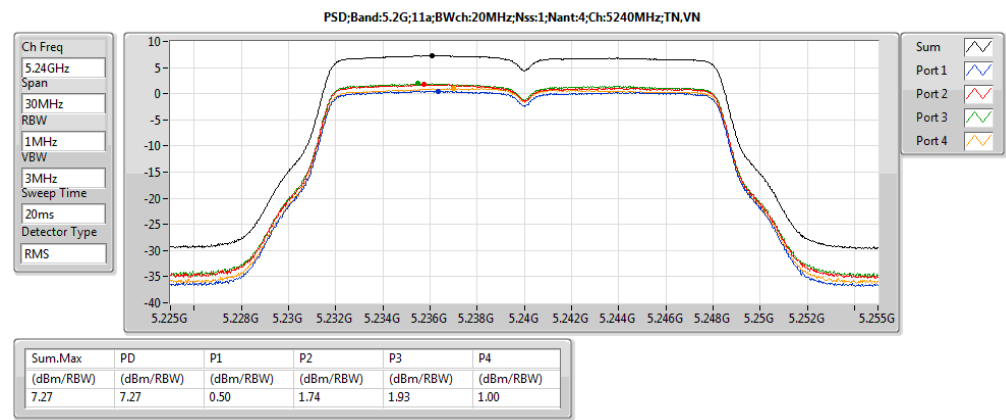
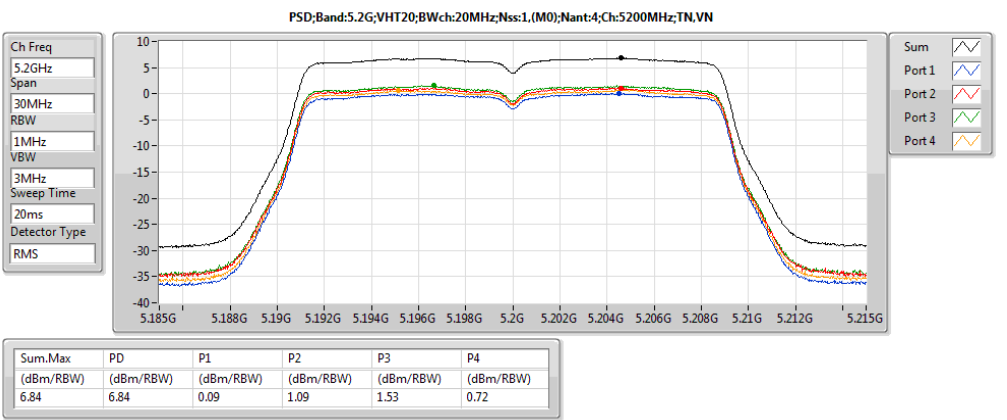
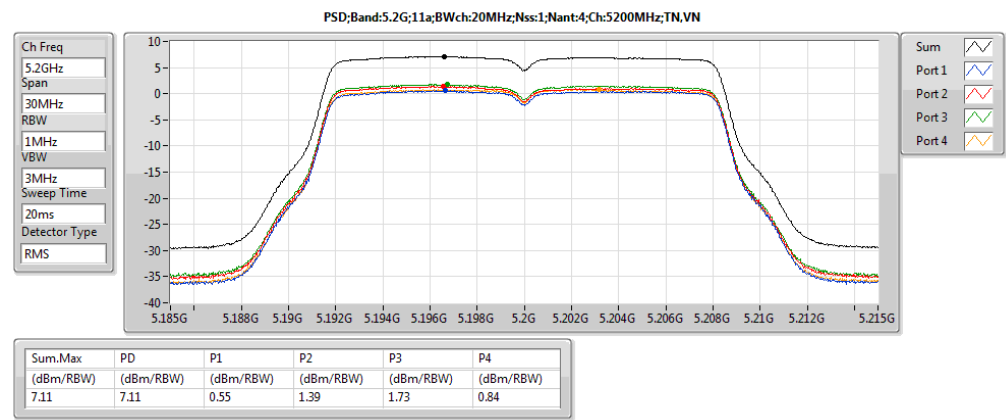
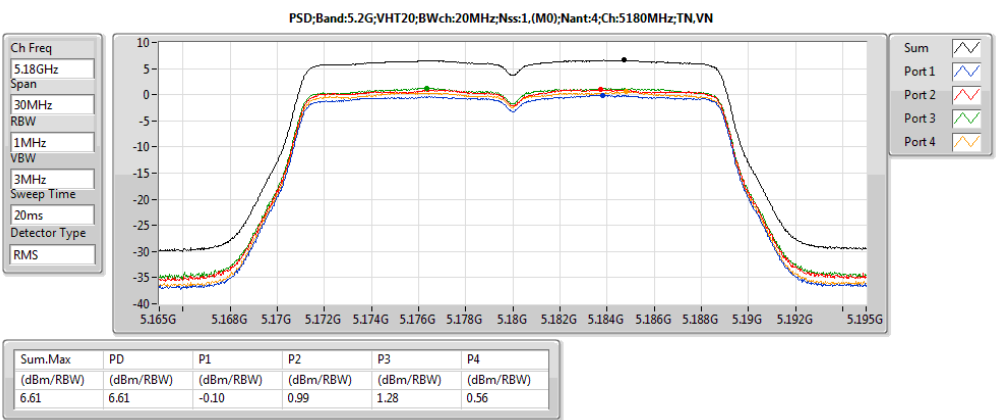
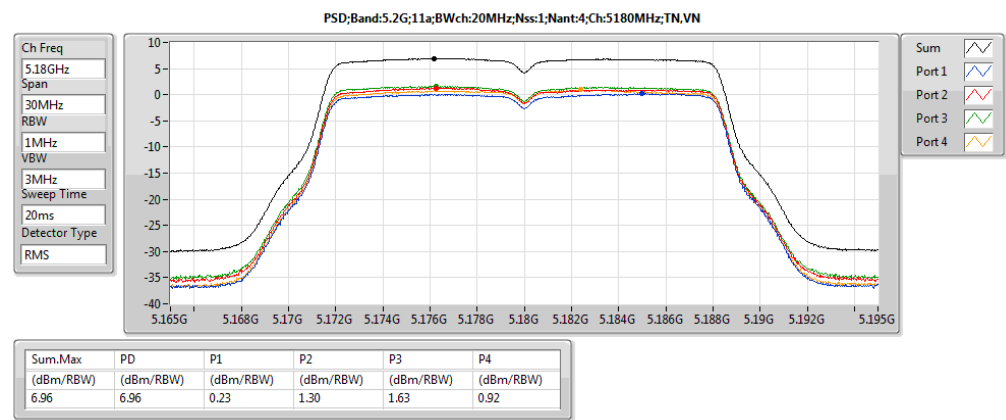
Summary

Mode	PD (dBm/RBW)	EIRP.PD (dBm/RBW)
5.2G;11a;Nss1;Ntx4	7.27	22.69
5.8G;11a;Nss1;Ntx4	10.72	26.15
5.2G;VHT20;Nss1,(M0);Ntx4	6.84	22.26
5.8G;VHT20;Nss1,(M0);Ntx4	10.10	25.52
5.2G;VHT40;Nss1,(M0);Ntx4	4.56	19.98
5.8G;VHT40;Nss1,(M0);Ntx4	7.24	22.66
5.2G;VHT80;Nss1,(M0);Ntx4	-1.62	13.80
5.8G;VHT80;Nss1,(M0);Ntx4	-0.35	15.07
5.2G;VHT20,BF;Nss1,(M0);Ntx4	7.17	22.60
5.8G;VHT20,BF;Nss1,(M0);Ntx4	4.18	19.60
5.2G;VHT40,BF;Nss1,(M0);Ntx4	5.32	20.74
5.8G;VHT40,BF;Nss1,(M0);Ntx4	1.36	16.78
5.2G;VHT80,BF;Nss1,(M0);Ntx4	1.06	16.48
5.8G;VHT80,BF;Nss1,(M0);Ntx4	-0.97	14.45



Result

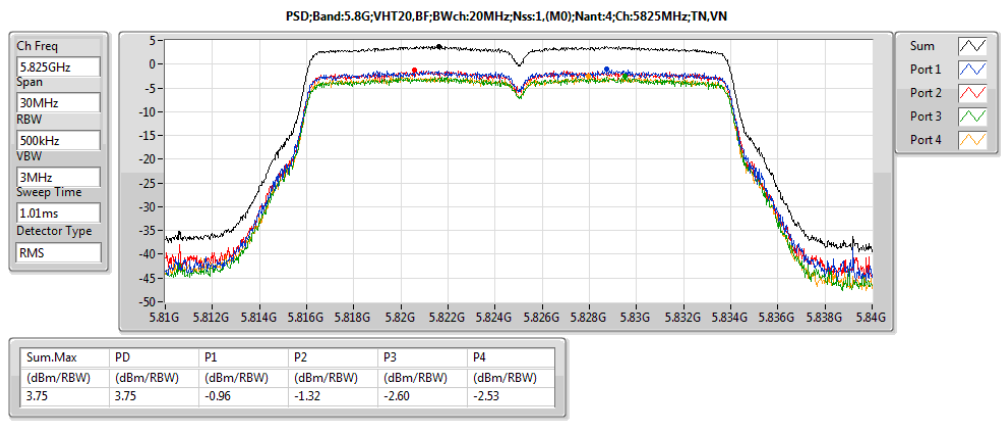
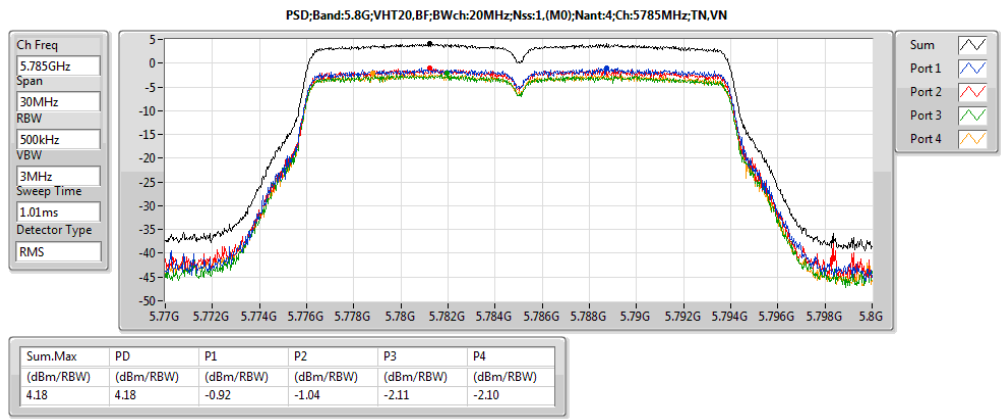
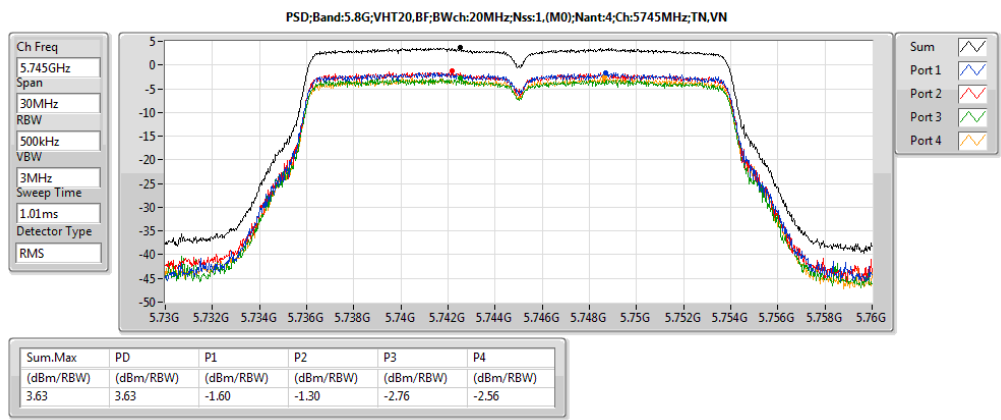
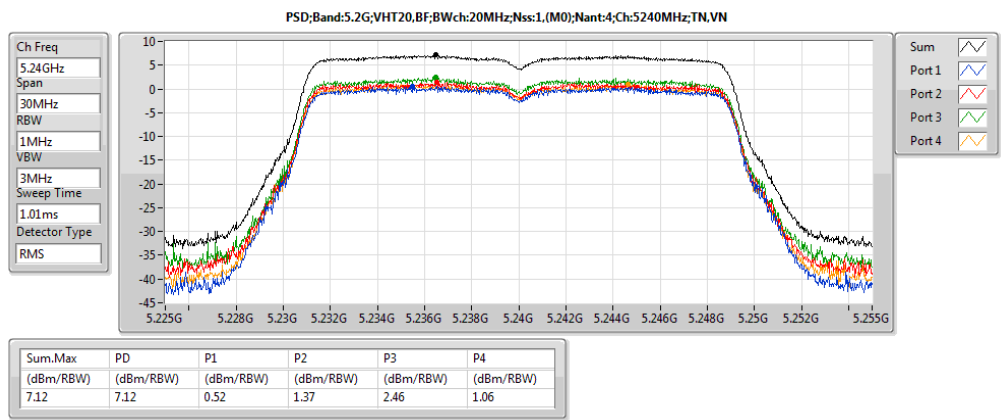
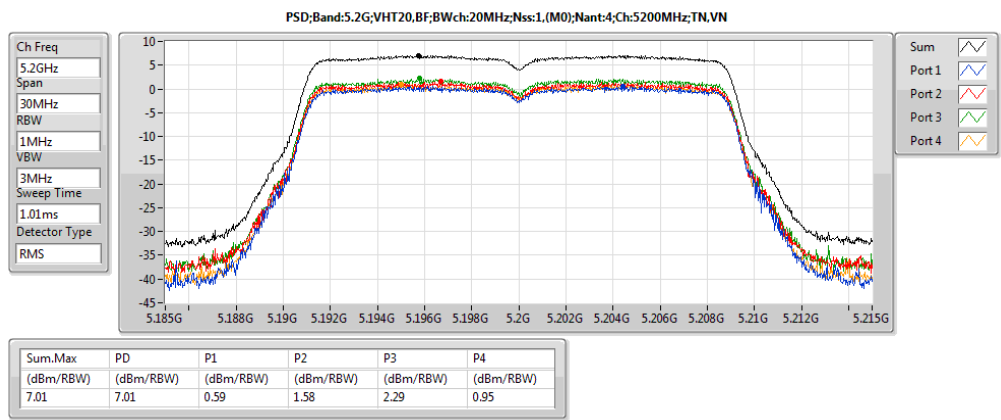
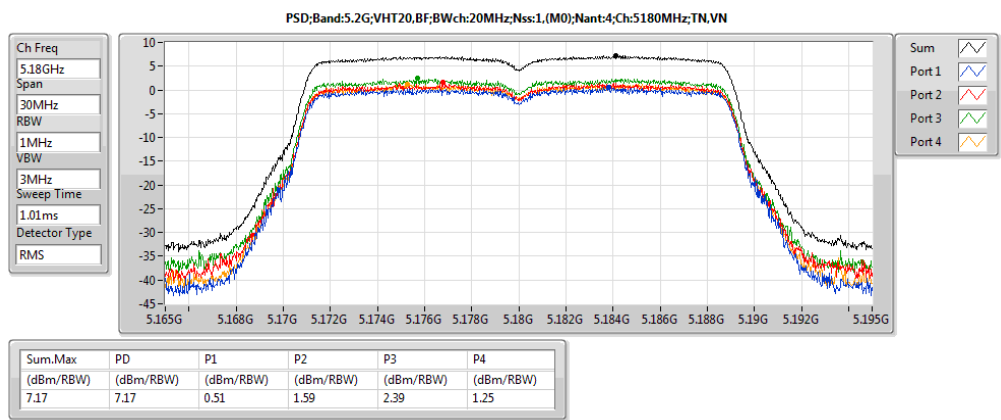
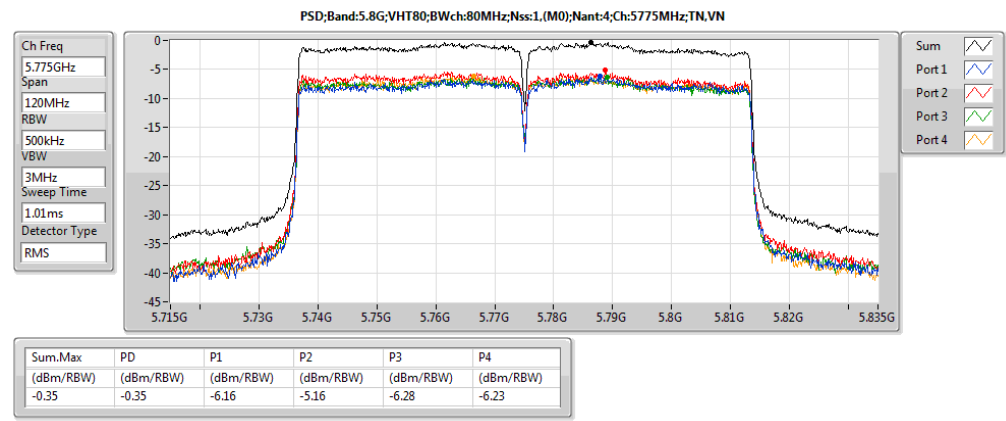
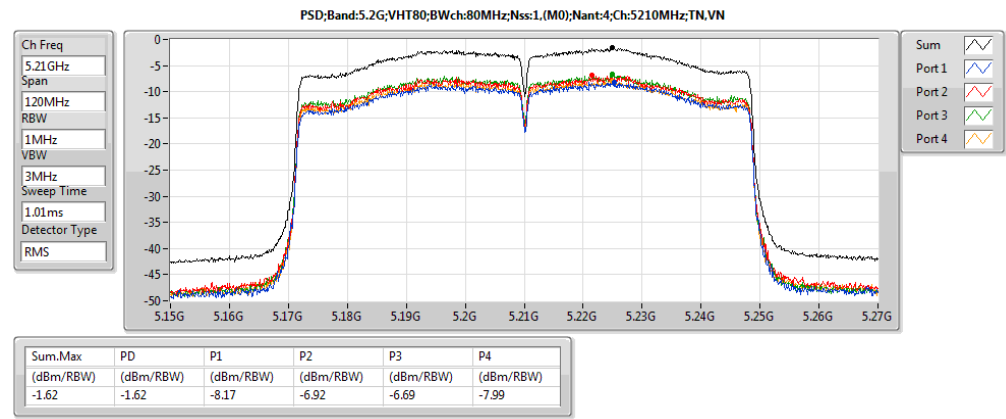
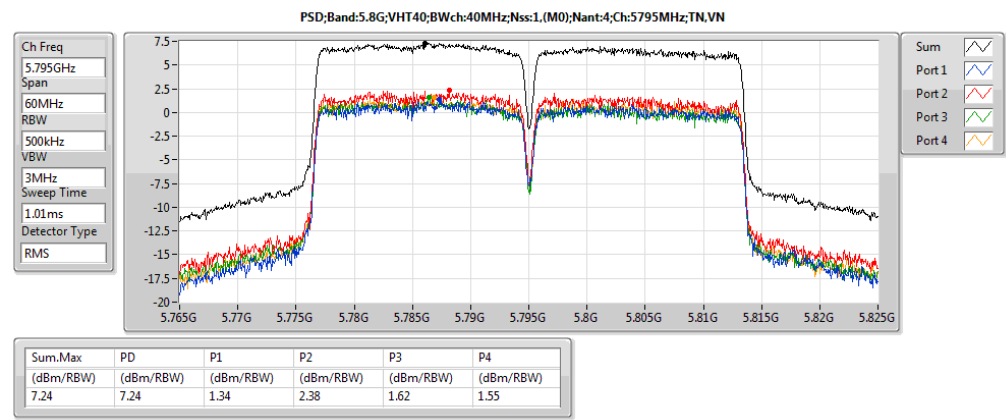
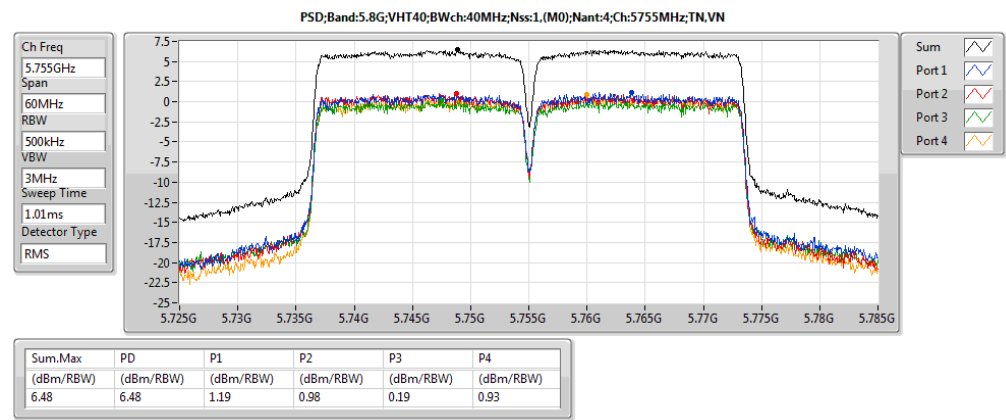
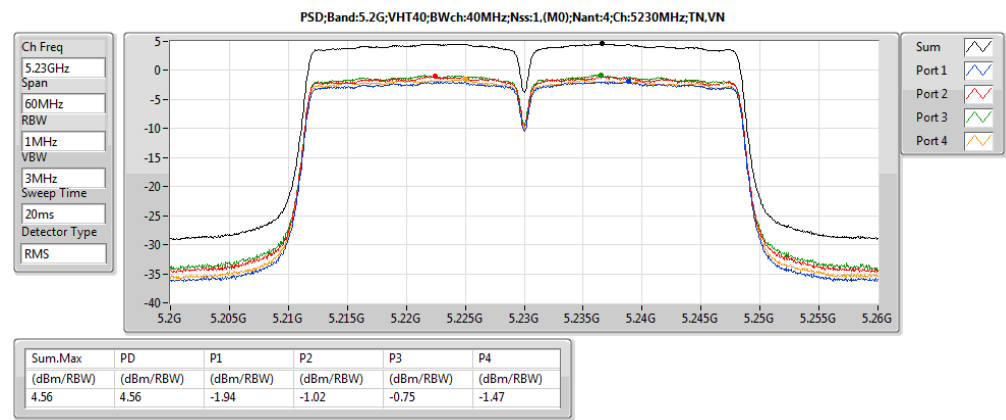
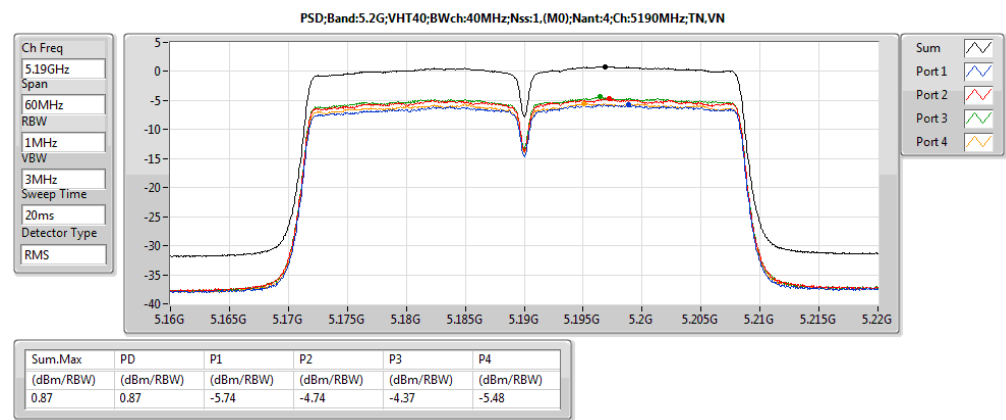
Mode	Result	Meas.RBW (Hz)	Lim.RBW (Hz)	BWCF (dB)	DG (dBi)	Sum.Max (dBm/RBW)	PD (dBm/RBW)	PD.Limit (dBm/RBW)	EIRP.PD (dBm/RBW)	EIRP.PD.Li m (dBm/RBW)	P1 (dBm/RBW)	P2 (dBm/RBW)	P3 (dBm/RBW)	P4 (dBm/RBW)
5.2G;11a;Nss1;Ntx4;5180	Pass	1M	1M	0.00	15.42	6.96	6.96	7.58	22.38	Inf	0.23	1.30	1.63	0.92
5.2G;11a;Nss1;Ntx4;5200	Pass	1M	1M	0.00	15.42	7.11	7.11	7.58	22.53	Inf	0.55	1.39	1.73	0.84
5.2G;11a;Nss1;Ntx4;5240	Pass	1M	1M	0.00	15.42	7.27	7.27	7.58	22.69	Inf	0.50	1.74	1.93	1.00
5.8G;11a;Nss1;Ntx4;5745	Pass	500k	500k	0.00	15.42	10.37	10.37	20.58	25.79	26.58	4.53	5.25	4.53	4.67
5.8G;11a;Nss1;Ntx4;5785	Pass	500k	500k	0.00	15.42	10.72	10.72	20.58	26.15	26.58	4.93	5.40	5.17	4.92
5.8G;11a;Nss1;Ntx4;5825	Pass	500k	500k	0.00	15.42	10.50	10.50	20.58	25.93	26.58	4.99	5.11	4.83	4.64
5.2G;VHT20;Nss1,(M0);Ntx4;5180	Pass	1M	1M	0.00	15.42	6.61	6.61	7.58	22.03	Inf	-0.10	0.99	1.28	0.56
5.2G;VHT20;Nss1,(M0);Ntx4;5200	Pass	1M	1M	0.00	15.42	6.84	6.84	7.58	22.26	Inf	0.09	1.09	1.53	0.72
5.2G;VHT20;Nss1,(M0);Ntx4;5240	Pass	1M	1M	0.00	15.42	6.77	6.77	7.58	22.19	Inf	0.12	1.23	1.55	0.59
5.8G;VHT20;Nss1,(M0);Ntx4;5745	Pass	500k	500k	0.00	15.42	9.75	9.75	20.58	25.17	26.58	4.24	4.59	3.83	4.26
5.8G;VHT20;Nss1,(M0);Ntx4;5785	Pass	500k	500k	0.00	15.42	10.10	10.10	20.58	25.52	26.58	4.37	4.68	4.13	4.52
5.8G;VHT20;Nss1,(M0);Ntx4;5825	Pass	500k	500k	0.00	15.42	8.93	8.93	20.58	24.35	26.58	3.04	3.50	2.72	2.90
5.2G;VHT40;Nss1,(M0);Ntx4;5190	Pass	1M	1M	0.00	15.42	0.87	0.87	7.58	16.29	Inf	-5.74	-4.74	-4.37	-5.48
5.2G;VHT40;Nss1,(M0);Ntx4;5230	Pass	1M	1M	0.00	15.42	4.56	4.56	7.58	19.98	Inf	-1.94	-1.02	-0.75	-1.47
5.8G;VHT40;Nss1,(M0);Ntx4;5755	Pass	500k	500k	0.00	15.42	6.48	6.48	20.58	21.90	26.58	1.19	0.98	0.19	0.93
5.8G;VHT40;Nss1,(M0);Ntx4;5795	Pass	500k	500k	0.00	15.42	7.24	7.24	20.58	22.66	26.58	1.34	2.38	1.62	1.55
5.2G;VHT80;Nss1,(M0);Ntx4;5210	Pass	1M	1M	0.00	15.42	-1.62	-1.62	7.58	13.80	Inf	-8.17	-6.92	-6.69	-7.99
5.8G;VHT80;Nss1,(M0);Ntx4;5775	Pass	500k	500k	0.00	15.42	-0.35	-0.35	20.58	15.07	26.58	-6.16	-5.16	-6.28	-6.23
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5180	Pass	1M	1M	0.00	15.42	7.17	7.17	7.58	22.60	Inf	0.51	1.59	2.39	1.25
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5200	Pass	1M	1M	0.00	15.42	7.01	7.01	7.58	22.43	Inf	0.59	1.58	2.29	0.95
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5240	Pass	1M	1M	0.00	15.42	7.12	7.12	7.58	22.54	Inf	0.52	1.37	2.46	1.06
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5745	Pass	500k	500k	0.00	15.42	3.63	3.63	20.58	19.05	26.58	-1.60	-1.30	-2.76	-2.56
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5785	Pass	500k	500k	0.00	15.42	4.18	4.18	20.58	19.60	26.58	-0.92	-1.04	-2.11	-2.10
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5825	Pass	500k	500k	0.00	15.42	3.75	3.75	20.58	19.17	26.58	-0.96	-1.32	-2.60	-2.53
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5190	Pass	1M	1M	0.00	15.42	3.41	3.41	7.58	18.83	Inf	-2.79	-1.92	-1.50	-2.70
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5230	Pass	1M	1M	0.00	15.42	5.32	5.32	7.58	20.74	Inf	-1.23	-0.14	0.40	-0.77
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5755	Pass	500k	500k	0.00	15.42	0.89	0.89	20.58	16.31	26.58	-5.19	-3.41	-5.22	-4.80
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5795	Pass	500k	500k	0.00	15.42	1.36	1.36	20.58	16.78	26.58	-3.83	-4.64	-4.00	-4.41
5.2G;VHT80,BF;Nss1,(M0);Ntx4;5210	Pass	1M	1M	0.00	15.42	1.06	1.06	7.58	16.48	Inf	-6.03	-3.93	-3.65	-5.02
5.8G;VHT80,BF;Nss1,(M0);Ntx4;5775	Pass	500k	500k	0.00	15.42	-0.97	-0.97	20.58	14.45	26.58	-7.36	-5.85	-6.97	-6.73





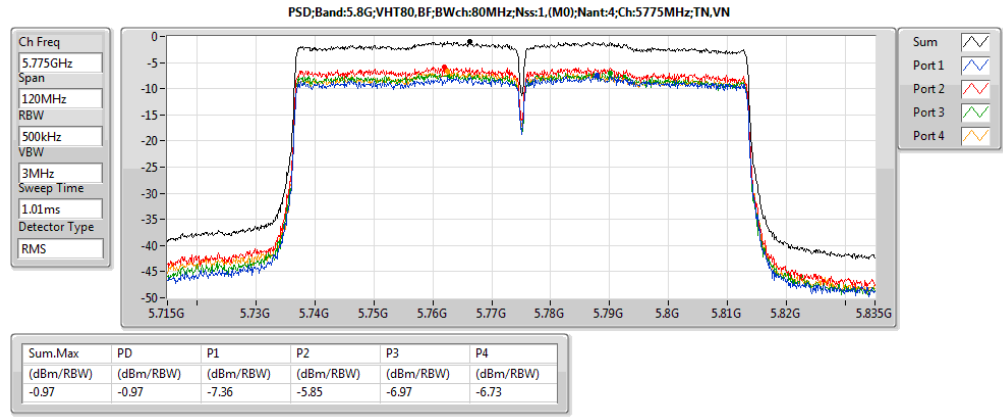
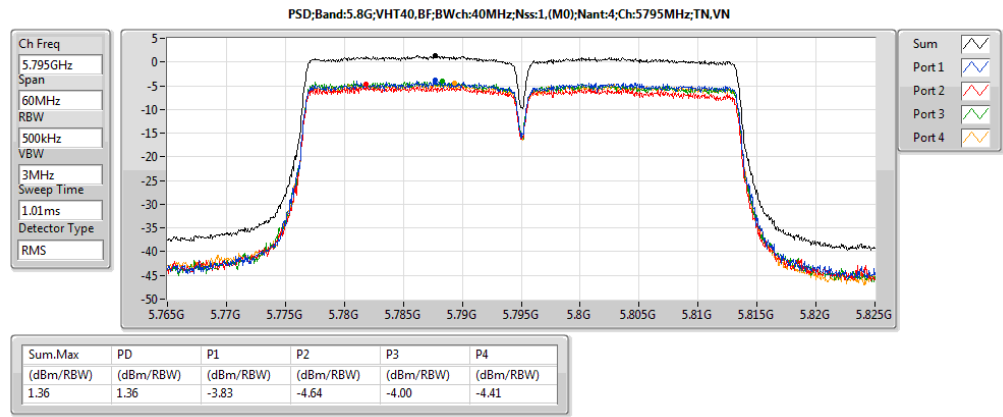
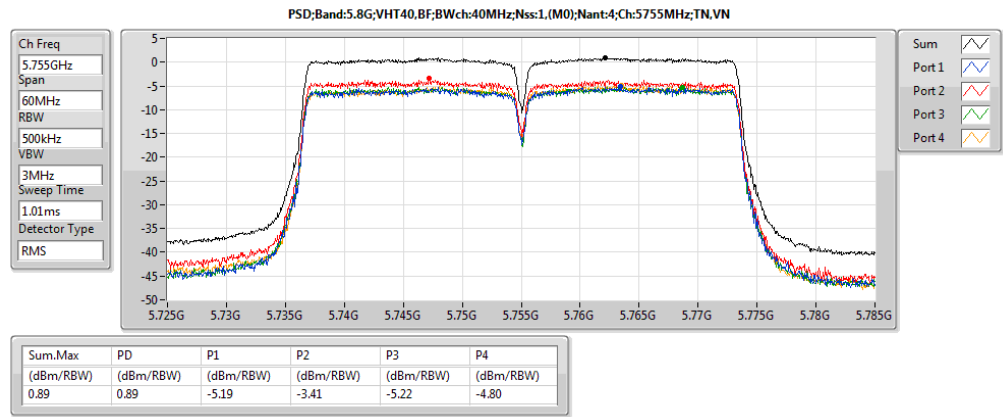
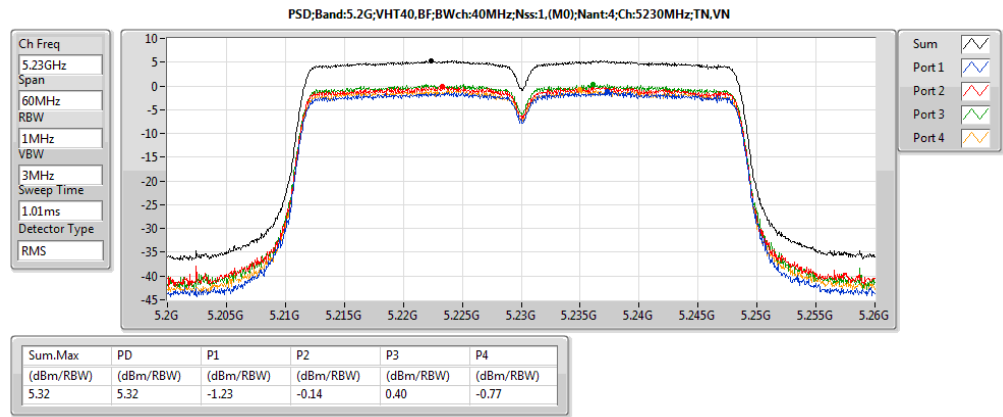
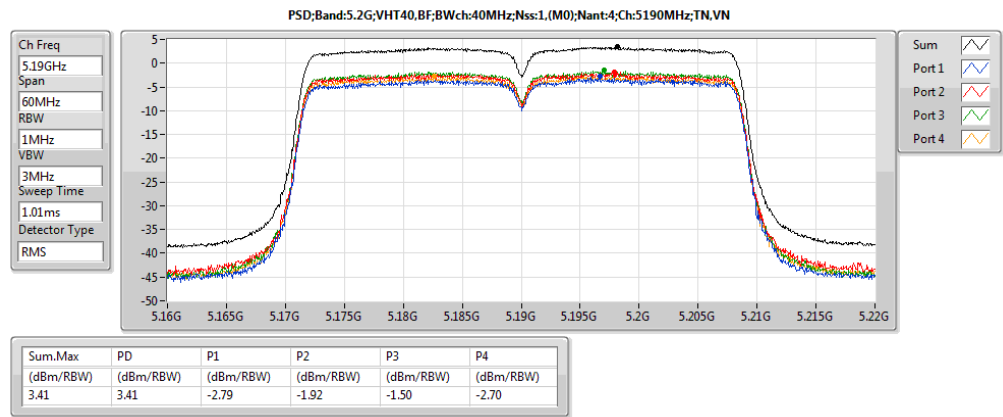
Antenna 2 PSD Result

Appendix D





Antenna 2 PSD Result





RSE below 1GHz Result											
Operating Mode	3					Polarization			Horizontal		
Operating Function	Intentional – CTX										
Level (dBuV/m) Date: 2018-01-08 Time: 20:43:55											
	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	46.49	25.55	40.00	-14.45	40.23	1.40	16.34	32.42	100	254 Peak	HORIZONTAL
2	250.19	33.43	46.00	-12.57	44.54	2.38	18.80	32.29	125	355 Peak	HORIZONTAL
3	399.57	30.39	46.00	-15.61	37.36	2.95	22.37	32.29	150	111 Peak	HORIZONTAL
4	500.45	35.69	46.00	-10.31	41.26	2.94	23.82	32.33	100	235 Peak	HORIZONTAL
5	750.71	33.99	46.00	-12.01	36.34	3.78	26.10	32.23	200	14 Peak	HORIZONTAL
6	906.88	34.93	46.00	-11.07	34.29	4.67	27.55	31.58	100	317 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	3				Power Phase				Vertical		
Operating Function	Intentional – CTX										
Level (dBuV/m) Date: 2018-01-08 Time: 20:38:21											
	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	46.49	36.20	40.00	-3.80	50.88	1.40	16.34	32.42	100	217 Peak	VERTICAL
2	224.97	31.03	46.00	-14.97	44.37	2.18	16.78	32.30	125	145 Peak	VERTICAL
3	250.19	33.82	46.00	-12.18	44.93	2.38	18.80	32.29	100	321 Peak	VERTICAL
4	500.45	32.55	46.00	-13.45	38.12	2.94	23.82	32.33	100	17 Peak	VERTICAL
5	624.61	34.13	46.00	-11.87	38.59	2.76	25.16	32.38	100	112 Peak	VERTICAL
6	750.71	35.74	46.00	-10.26	38.09	3.78	26.10	32.23	150	122 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.)											



RSE below 1GHz Result																																																																																																											
Operating Mode	4				Polarization				Horizontal																																																																																																		
Operating Function	Unintentional– CRX																																																																																																										
Level (dBuV/m) Date: 2018-01-08 Time: 21:43:45 <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>250.19</td><td>31.82</td><td>46.00</td><td>-14.18</td><td>42.93</td><td>2.38</td><td>18.80</td><td>32.29</td><td>100</td><td>217 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>500.45</td><td>35.13</td><td>46.00</td><td>-10.87</td><td>40.70</td><td>2.94</td><td>23.82</td><td>32.33</td><td>100</td><td>148 Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>625.58</td><td>31.81</td><td>46.00</td><td>-14.19</td><td>36.27</td><td>2.76</td><td>25.16</td><td>32.38</td><td>125</td><td>345 Peak</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>727.43</td><td>32.47</td><td>46.00</td><td>-13.53</td><td>35.37</td><td>3.56</td><td>25.83</td><td>32.29</td><td>150</td><td>159 Peak</td><td>HORIZONTAL</td></tr><tr><td>5</td><td>750.71</td><td>33.86</td><td>46.00</td><td>-12.14</td><td>36.21</td><td>3.78</td><td>26.10</td><td>32.23</td><td>100</td><td>118 Peak</td><td>HORIZONTAL</td></tr><tr><td>6</td><td>804.06</td><td>33.64</td><td>46.00</td><td>-12.36</td><td>35.70</td><td>3.39</td><td>26.67</td><td>32.12</td><td>300</td><td>9 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	250.19	31.82	46.00	-14.18	42.93	2.38	18.80	32.29	100	217 Peak	HORIZONTAL	2	500.45	35.13	46.00	-10.87	40.70	2.94	23.82	32.33	100	148 Peak	HORIZONTAL	3	625.58	31.81	46.00	-14.19	36.27	2.76	25.16	32.38	125	345 Peak	HORIZONTAL	4	727.43	32.47	46.00	-13.53	35.37	3.56	25.83	32.29	150	159 Peak	HORIZONTAL	5	750.71	33.86	46.00	-12.14	36.21	3.78	26.10	32.23	100	118 Peak	HORIZONTAL	6	804.06	33.64	46.00	-12.36	35.70	3.39	26.67	32.12	300	9 Peak	HORIZONTAL
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																																																
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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	Unintentional– CRX																																																																																																										
Level (dBuV/m) Date: 2018-01-12 Time: 15:24:16 <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>46.49</td><td>36.99</td><td>40.00</td><td>-3.01</td><td>51.67</td><td>1.40</td><td>16.34</td><td>32.42</td><td>100</td><td>359 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>224.97</td><td>27.76</td><td>46.00</td><td>-18.24</td><td>41.10</td><td>2.18</td><td>16.78</td><td>32.30</td><td>125</td><td>254 Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>250.19</td><td>32.99</td><td>46.00</td><td>-13.01</td><td>44.10</td><td>2.38</td><td>18.80</td><td>32.29</td><td>100</td><td>158 Peak</td><td>VERTICAL</td></tr><tr><td>4</td><td>625.58</td><td>31.99</td><td>46.00</td><td>-14.01</td><td>36.45</td><td>2.76</td><td>25.16</td><td>32.38</td><td>100</td><td>257 Peak</td><td>VERTICAL</td></tr><tr><td>5</td><td>750.71</td><td>33.90</td><td>46.00</td><td>-12.10</td><td>36.25</td><td>3.78</td><td>26.10</td><td>32.23</td><td>200</td><td>289 Peak</td><td>VERTICAL</td></tr><tr><td>6</td><td>897.18</td><td>34.55</td><td>46.00</td><td>-11.45</td><td>34.07</td><td>4.62</td><td>27.48</td><td>31.62</td><td>150</td><td>157 Peak</td><td>VERTICAL</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	46.49	36.99	40.00	-3.01	51.67	1.40	16.34	32.42	100	359 Peak	VERTICAL	2	224.97	27.76	46.00	-18.24	41.10	2.18	16.78	32.30	125	254 Peak	VERTICAL	3	250.19	32.99	46.00	-13.01	44.10	2.38	18.80	32.29	100	158 Peak	VERTICAL	4	625.58	31.99	46.00	-14.01	36.45	2.76	25.16	32.38	100	257 Peak	VERTICAL	5	750.71	33.90	46.00	-12.10	36.25	3.78	26.10	32.23	200	289 Peak	VERTICAL	6	897.18	34.55	46.00	-11.45	34.07	4.62	27.48	31.62	150	157 Peak	VERTICAL
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																																																
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3	250.19	32.99	46.00	-13.01	44.10	2.38	18.80	32.29	100	158 Peak	VERTICAL																																																																																																
4	625.58	31.99	46.00	-14.01	36.45	2.76	25.16	32.38	100	257 Peak	VERTICAL																																																																																																
5	750.71	33.90	46.00	-12.10	36.25	3.78	26.10	32.23	200	289 Peak	VERTICAL																																																																																																
6	897.18	34.55	46.00	-11.45	34.07	4.62	27.48	31.62	150	157 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.)																																																																																																											



RSE above 1GHz Result (1~5th Harmonic)																																																																			
Operating Mode	2				Polarization				Horizontal																																																										
Operating Function	Unintentional– CRX																																																																		
Level (dBuV/m) Date: 2018-01-08 Time: 22:34:05																																																																			
<table><tr><th colspan="2"></th><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Loss</th><th>Factor</th><th>Factor</th><th colspan="2"></th><th>Remark</th><th>Pol/Phase</th></tr><tr><th colspan="2"></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><th></th></tr><tr><td>1</td><td></td><td>1068.91</td><td>29.50</td><td>54.00</td><td>-24.50</td><td>37.60</td><td>4.25</td><td>24.48</td><td>36.83</td><td>105</td><td>114</td><td>Average</td><td>HORIZONTAL</td></tr><tr><td>2</td><td></td><td>1069.07</td><td>34.89</td><td>74.00</td><td>-39.11</td><td>42.99</td><td>4.25</td><td>24.48</td><td>36.83</td><td>105</td><td>114</td><td>Peak</td><td>HORIZONTAL</td></tr></table>														Freq	Level	Line	Limit	Level	Loss	Factor	Factor			Remark	Pol/Phase			MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg			1		1068.91	29.50	54.00	-24.50	37.60	4.25	24.48	36.83	105	114	Average	HORIZONTAL	2		1069.07	34.89	74.00	-39.11	42.99	4.25	24.48	36.83	105	114	Peak	HORIZONTAL
		Freq	Level	Line	Limit	Level	Loss	Factor	Factor			Remark	Pol/Phase																																																						
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg																																																								
1		1068.91	29.50	54.00	-24.50	37.60	4.25	24.48	36.83	105	114	Average	HORIZONTAL																																																						
2		1069.07	34.89	74.00	-39.11	42.99	4.25	24.48	36.83	105	114	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 above 1GHz Result (1~5th Harmonic)																																																																				
Operating Mode	2				Power Phase				Vertical																																																											
Operating Function	Unintentional– CRX																																																																			
Level (dBuV/m) Date: 2018-01-08 Time: 22:29:50																																																																				
<table><tr><th colspan="2"></th><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Loss</th><th>Factor</th><th>Factor</th><th colspan="2"></th><th>Remark</th><th>Pol/Phase</th></tr><tr><th colspan="2"></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><th></th></tr><tr><td>1</td><td></td><td>1069.43</td><td>39.04</td><td>74.00</td><td>-34.96</td><td>47.14</td><td>4.25</td><td>24.48</td><td>36.83</td><td>108</td><td>225</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td></td><td>1069.47</td><td>35.39</td><td>54.00</td><td>-18.61</td><td>43.49</td><td>4.25</td><td>24.48</td><td>36.83</td><td>108</td><td>225</td><td>Average</td><td>VERTICAL</td></tr></table>															Freq	Level	Line	Limit	Level	Loss	Factor	Factor			Remark	Pol/Phase			MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg			1		1069.43	39.04	74.00	-34.96	47.14	4.25	24.48	36.83	108	225	Peak	VERTICAL	2		1069.47	35.39	54.00	-18.61	43.49	4.25	24.48	36.83	108	225	Average	VERTICAL
		Freq	Level	Line	Limit	Level	Loss	Factor	Factor			Remark	Pol/Phase																																																							
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg																																																									
1		1069.43	39.04	74.00	-34.96	47.14	4.25	24.48	36.83	108	225	Peak	VERTICAL																																																							
2		1069.47	35.39	54.00	-18.61	43.49	4.25	24.48	36.83	108	225	Average	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~40GHz)

Dipole Antenna

<For Non-Beamforming Mode>

Configurations	IEEE 802.11a CH 36 / 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	15536.94	46.60	54.00	-7.40	31.85	11.23	38.16	34.64	227	326	Average	HORIZONTAL
2	15539.88	60.40	74.00	-13.60	45.65	11.23	38.16	34.64	227	326	Peak	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	15535.30	59.42	74.00	-14.58	44.67	11.23	38.16	34.64	227	334	Peak	VERTICAL
2	15535.68	46.36	54.00	-7.64	31.61	11.23	38.16	34.64	227	334	Average	VERTICAL



Configurations	IEEE 802.11a CH 40 / 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	15537.44	46.48	54.00	-7.52	31.73	11.23	38.16	34.64	228	295 Average	HORIZONTAL
2	15540.98	59.76	74.00	-14.24	45.01	11.23	38.16	34.64	228	295 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	15536.00	59.60	74.00	-14.40	44.85	11.23	38.16	34.64	226	303 Peak	VERTICAL
2	15536.14	46.29	54.00	-7.71	31.54	11.23	38.16	34.64	226	303 Average	VERTICAL

Configurations	IEEE 802.11a CH 48 / 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	15717.98	59.33	74.00	-14.67	44.45	11.27	38.42	34.81	231	280	Peak	HORIZONTAL
2	15720.44	45.66	54.00	-8.34	30.78	11.27	38.42	34.81	231	280	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	15721.52	59.38	74.00	-14.62	44.50	11.27	38.42	34.81	232	292	Peak	VERTICAL
2	15723.72	45.63	54.00	-8.37	30.75	11.27	38.42	34.81	232	292	Average	VERTICAL

Configurations	IEEE 802.11a CH 149 / 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	11493.02	58.57	74.00	-15.43	45.07	9.62	38.50	34.62	236	301	Peak
2	11493.16	45.31	54.00	-8.69	31.81	9.62	38.50	34.62	236	301	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	11491.76	44.42	54.00	-9.58	30.92	9.62	38.50	34.62	235	314	Average
2	11492.14	57.58	74.00	-16.42	44.08	9.62	38.50	34.62	235	314	Peak



Configurations	IEEE 802.11a CH 157 / 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	11570.04	57.10	74.00	-16.90	43.61	9.61	38.53	34.65	239	325	Peak
2	11570.08	45.28	54.00	-8.72	31.79	9.61	38.53	34.65	239	325	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	11577.80	43.46	54.00	-10.54	29.97	9.61	38.53	34.65	225	330	Average
2	11579.40	56.07	74.00	-17.93	42.58	9.61	38.53	34.65	225	330	Peak

Configurations	IEEE 802.11a CH 165 / 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	11654.20	58.56	74.00	-15.44	45.07	9.60	38.57	34.68	226	343	Peak	HORIZONTAL
2	11655.56	45.22	54.00	-8.78	31.73	9.60	38.57	34.68	226	343	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	11655.60	42.64	54.00	-11.36	29.15	9.60	38.57	34.68	226	343	Average	VERTICAL
2	11656.24	56.70	74.00	-17.30	43.21	9.60	38.57	34.68	226	343	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / 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	15543.00	46.74	54.00	-7.26	31.99	11.23	38.16	34.64	217	10 Average	HORIZONTAL
2	15547.40	59.76	74.00	-14.24	45.01	11.23	38.16	34.64	217	10 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	15543.80	46.84	54.00	-7.16	32.09	11.23	38.16	34.64	145	142 Average	VERTICAL
2	15546.04	59.63	74.00	-14.37	44.88	11.23	38.16	34.64	145	142 Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / 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	10398.92	64.40	68.20	-3.80	51.30	9.77	38.41	35.08	225	295	Peak
2	15591.92	59.48	74.00	-14.52	44.69	11.24	38.23	34.68	192	147	Peak
3	15594.00	46.60	54.00	-7.40	31.81	11.24	38.23	34.68	192	147	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	10399.12	57.37	68.20	-10.83	44.27	9.77	38.41	35.08	211	355	Peak
2	15599.24	59.46	74.00	-14.54	44.67	11.24	38.23	34.68	158	142	Peak
3	15600.04	46.51	54.00	-7.49	31.72	11.24	38.23	34.68	158	142	Average

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / 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	10478.72	60.51	68.20	-7.69	47.31	9.75	38.48	35.03	230	60	Peak
2	15722.20	59.37	74.00	-14.63	44.49	11.27	38.42	34.81	236	351	Peak
3	15725.40	46.02	54.00	-7.98	31.14	11.27	38.42	34.81	236	351	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	10479.04	58.05	68.20	-10.15	44.85	9.75	38.48	35.03	210	355	Peak
2	15717.52	59.30	74.00	-14.70	44.42	11.27	38.42	34.81	249	310	Peak
3	15723.56	46.05	54.00	-7.95	31.17	11.27	38.42	34.81	249	310	Average

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / 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	11486.40	59.06	74.00	-14.94	45.56	9.62	38.50	34.62	216	46	Peak	HORIZONTAL
2	11491.12	46.80	54.00	-7.20	33.30	9.62	38.50	34.62	216	46	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	11485.92	57.64	74.00	-16.36	44.14	9.62	38.50	34.62	211	14	Peak	VERTICAL
2	11490.52	45.37	54.00	-8.63	31.87	9.62	38.50	34.62	211	14	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / 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	11568.88	56.59	74.00	-17.41	43.10	9.61	38.53	34.65	247	355	Peak
2	11569.00	44.39	54.00	-9.61	30.90	9.61	38.53	34.65	247	355	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	11568.12	46.67	54.00	-7.33	33.18	9.61	38.53	34.65	260	358	Average
2	11570.80	59.94	74.00	-14.06	46.45	9.61	38.53	34.65	260	358	Peak



Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / 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	11648.92	45.66	54.00	-8.34	32.19	9.60	38.55	34.68	206	336	Average	HORIZONTAL
2	11648.96	59.18	74.00	-14.82	45.71	9.60	38.55	34.68	206	336	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	11648.20	57.19	74.00	-16.81	43.72	9.60	38.55	34.68	269	352	Peak
2	11653.08	45.21	54.00	-8.79	31.72	9.60	38.57	34.68	269	352	Average

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / 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	15565.44	60.39	74.00	-13.61	45.60	11.24	38.23	34.68	248	135	Peak	HORIZONTAL
2	15568.48	47.21	54.00	-6.79	32.42	11.24	38.23	34.68	248	135	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	15557.44	60.66	74.00	-13.34	45.83	11.24	38.23	34.64	172	296	Peak	VERTICAL
2	15565.76	47.07	54.00	-6.93	32.28	11.24	38.23	34.68	172	296	Average	VERTICAL



Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / 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	15681.36	46.03	54.00	-7.97	31.19	11.26	38.35	34.77	250	128 Average	HORIZONTAL
2	15696.16	58.70	74.00	-15.30	43.78	11.27	38.42	34.77	250	128 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	15673.20	59.36	74.00	-14.64	44.52	11.26	38.35	34.77	200	360 Peak	VERTICAL
2	15674.48	46.14	54.00	-7.86	31.30	11.26	38.35	34.77	161	354 Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / 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	11509.12	43.71	54.00	-10.29	30.22	9.62	38.50	34.63	210	322	Average	HORIZONTAL
2	11516.00	55.88	74.00	-18.12	42.39	9.62	38.50	34.63	210	322	Peak	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	11503.76	43.75	54.00	-10.25	30.25	9.62	38.50	34.62	243	0	Average	VERTICAL
2	11513.28	55.64	74.00	-18.36	42.15	9.62	38.50	34.63	243	0	Peak	VERTICAL



Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / 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	11592.96	43.73	54.00	-10.27	30.25	9.60	38.54	34.66	216	343	Average	HORIZONTAL
2	11593.20	56.12	74.00	-17.88	42.64	9.60	38.54	34.66	216	343	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	11571.92	54.39	74.00	-19.61	40.90	9.61	38.53	34.65	250	141	Peak
2	11581.84	42.22	54.00	-11.78	28.73	9.61	38.53	34.65	250	141	Average

Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / 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	15592.72	46.73	54.00	-7.27	31.94	11.24	38.23	34.68	177	124	Average	HORIZONTAL
2	15594.64	57.73	74.00	-16.27	42.94	11.24	38.23	34.68	177	124	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	15607.44	46.87	54.00	-7.13	32.01	11.25	38.29	34.68	264	356	Average	VERTICAL
2	15669.36	59.58	74.00	-14.42	44.74	11.26	38.35	34.77	264	356	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / 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	11519.76	54.81	74.00	-19.19	41.32	9.61	38.51	34.63	166	70	Peak	HORIZONTAL
2	11519.92	41.71	54.00	-12.29	28.22	9.61	38.51	34.63	166	70	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	11546.00	54.02	74.00	-19.98	40.53	9.61	38.51	34.63	159	313	Peak	VERTICAL
2	11572.88	41.52	54.00	-12.48	28.03	9.61	38.53	34.65	159	313	Average	VERTICAL

<For Beamforming Mode>

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / 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	15541.00	46.23	54.00	-7.77	31.48	11.23	38.16	34.64	171	162	Average
2	15541.76	59.61	74.00	-14.39	44.86	11.23	38.16	34.64	171	162	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	15535.42	46.41	54.00	-7.59	31.66	11.23	38.16	34.64	176	174	Average
2	15544.74	59.63	74.00	-14.37	44.88	11.23	38.16	34.64	176	174	Peak

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / 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	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15599.02	46.22	54.00	-7.78	31.43	11.24	38.23	34.68	169	206	Average
2	15601.64	59.57	74.00	-14.43	44.71	11.25	38.29	34.68	169	206	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	15598.64	59.46	74.00	-14.54	44.67	11.24	38.23	34.68	173	182	Peak	VERTICAL
2	15602.74	46.46	54.00	-7.54	31.60	11.25	38.29	34.68	173	182	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / 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	15627.54	45.97	54.00	-8.03	31.16	11.25	38.29	34.73	180	168	Average
2	15628.36	60.07	74.00	-13.93	45.26	11.25	38.29	34.73	180	168	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	15625.00	46.16	54.00	-7.84	31.35	11.25	38.29	34.73	197	221	Average
2	15630.30	58.87	74.00	-15.13	44.06	11.25	38.29	34.73	197	221	Peak

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / 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	11490.64	55.26	74.00	-18.74	41.76	9.62	38.50	34.62	183	270	Peak	HORIZONTAL
2	11493.36	41.81	54.00	-12.19	28.31	9.62	38.50	34.62	183	270	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	11488.46	55.73	74.00	-18.27	42.23	9.62	38.50	34.62	174	310	Peak	VERTICAL
2	11489.16	41.97	54.00	-12.03	28.47	9.62	38.50	34.62	174	310	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / 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	11566.46	53.90	74.00	-20.10	40.41	9.61	38.53	34.65	184	97 Peak	HORIZONTAL
2	11568.36	41.40	54.00	-12.60	27.91	9.61	38.53	34.65	184	97 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	11566.86	41.52	54.00	-12.48	28.03	9.61	38.53	34.65	170	50 Average	VERTICAL
2	11566.94	54.68	74.00	-19.32	41.19	9.61	38.53	34.65	170	50 Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / 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	11648.10	54.50	74.00	-19.50	41.03	9.60	38.55	34.68	166	186	Peak	HORIZONTAL
2	11650.86	41.86	54.00	-12.14	28.37	9.60	38.57	34.68	166	186	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	11645.80	54.78	74.00	-19.22	41.31	9.60	38.55	34.68	192	148	Peak	VERTICAL
2	11650.10	43.35	54.00	-10.65	29.88	9.60	38.55	34.68	192	148	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / 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	15568.70	44.18	54.00	-9.82	29.39	11.24	38.23	34.68	102	198	Average
2	15568.95	57.34	74.00	-16.66	42.55	11.24	38.23	34.68	102	198	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	15569.95	57.19	74.00	-16.81	42.40	11.24	38.23	34.68	101	191	Peak
2	15570.26	44.17	54.00	-9.83	29.38	11.24	38.23	34.68	101	191	Average

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / 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	15681.32	59.68	74.00	-14.32	44.84	11.26	38.35	34.77	173	235	Peak
2	15681.56	46.09	54.00	-7.91	31.25	11.26	38.35	34.77	173	235	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	15684.40	46.16	54.00	-7.84	31.32	11.26	38.35	34.77	145	56	Average
2	15690.44	59.00	74.00	-15.00	44.16	11.26	38.35	34.77	145	56	Peak

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / 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	11510.16	42.76	54.00	-11.24	29.27	9.62	38.50	34.63	229	30	Average
2	11515.68	56.36	74.00	-17.64	42.87	9.62	38.50	34.63	229	30	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	11501.12	43.15	54.00	-10.85	29.65	9.62	38.50	34.62	175	293	Average
2	11507.00	55.15	74.00	-18.85	41.65	9.62	38.50	34.62	175	293	Peak

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / 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	11586.40	42.40	54.00	-11.60	28.92	9.60	38.54	34.66	239	322	Average
2	11587.92	54.91	74.00	-19.09	41.43	9.60	38.54	34.66	239	322	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	11572.00	43.91	54.00	-10.09	30.42	9.61	38.53	34.65	226	66	Average
2	11585.12	55.04	74.00	-18.96	41.56	9.60	38.54	34.66	226	66	Peak

Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / 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	15610.96	46.63	54.00	-7.37	31.82	11.25	38.29	34.73	250	341	Average
2	15630.72	59.16	74.00	-14.84	44.35	11.25	38.29	34.73	250	341	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	15611.04	46.56	54.00	-7.44	31.75	11.25	38.29	34.73	193	140	Average
2	15641.84	59.06	74.00	-14.94	44.25	11.25	38.29	34.73	193	140	Peak

Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / 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	11534.48	42.00	54.00	-12.00	28.51	9.61	38.51	34.63	176	271	Average	HORIZONTAL
2	11537.60	54.59	74.00	-19.41	41.10	9.61	38.51	34.63	176	271	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	11532.72	41.46	54.00	-12.54	27.97	9.61	38.51	34.63	182	312	Average
2	11568.40	54.21	74.00	-19.79	40.72	9.61	38.53	34.65	182	312	Peak

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.



Directional Antenna Antenna

<For Non-Beamforming Mode>

Configurations	IEEE 802.11a CH 36 / 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	15538.80	60.13	74.00	-13.87	45.38	11.23	38.16	34.64	107	114 Peak	HORIZONTAL
2	15540.00	46.87	54.00	-7.13	32.12	11.23	38.16	34.64	107	114 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	15535.34	60.19	74.00	-13.81	45.44	11.23	38.16	34.64	107	107 Peak	VERTICAL
2	15538.30	47.49	54.00	-6.51	32.74	11.23	38.16	34.64	107	107 Average	VERTICAL

Configurations	IEEE 802.11a CH 40 / 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	15596.68	60.39	74.00	-13.61	45.60	11.24	38.23	34.68	109	313	Peak	HORIZONTAL
2	15597.12	46.76	54.00	-7.24	31.97	11.24	38.23	34.68	109	313	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	15595.08	46.55	54.00	-7.45	31.76	11.24	38.23	34.68	105	336	Average	VERTICAL
2	15601.66	59.91	74.00	-14.09	45.05	11.25	38.29	34.68	105	336	Peak	VERTICAL

Configurations	IEEE 802.11a CH 48 / 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	15718.66	45.95	54.00	-8.05	31.07	11.27	38.42	34.81	108	304	Average
2	15720.90	59.13	74.00	-14.87	44.25	11.27	38.42	34.81	108	304	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	15716.22	46.07	54.00	-7.93	31.19	11.27	38.42	34.81	106	298	Average
2	15722.40	59.22	74.00	-14.78	44.34	11.27	38.42	34.81	106	298	Peak

Configurations	IEEE 802.11a CH 149 / 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	11489.88	54.80	74.00	-19.20	41.30	9.62	38.50	34.62	110	295	Peak	HORIZONTAL
2	11493.34	41.65	54.00	-12.35	28.15	9.62	38.50	34.62	110	295	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	11489.80	55.01	74.00	-18.99	41.51	9.62	38.50	34.62	109	288	Peak	VERTICAL
2	11493.76	41.75	54.00	-12.25	28.25	9.62	38.50	34.62	109	288	Average	VERTICAL



Configurations	IEEE 802.11a CH 157 / 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	11565.66	41.03	54.00	-12.97	27.54	9.61	38.53	34.65	110	266 Average	HORIZONTAL
2	11569.60	54.10	74.00	-19.90	40.61	9.61	38.53	34.65	110	266 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	11568.70	41.11	54.00	-12.89	27.62	9.61	38.53	34.65	108	298 Average	VERTICAL
2	11572.08	54.42	74.00	-19.58	40.93	9.61	38.53	34.65	108	298 Peak	VERTICAL

Configurations	IEEE 802.11a CH 165 / 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	11650.30	54.84	74.00	-19.16	41.37	9.60	38.55	34.68	111	315	Peak	HORIZONTAL
2	11653.08	41.05	54.00	-12.95	27.56	9.60	38.57	34.68	111	315	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	11648.20	53.96	74.00	-20.04	40.49	9.60	38.55	34.68	108	295	Peak	VERTICAL
2	11653.60	41.21	54.00	-12.79	27.72	9.60	38.57	34.68	108	295	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / 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	15536.52	46.77	54.00	-7.23	32.02	11.23	38.16	34.64	109	281	Average
2	15536.60	59.83	74.00	-14.17	45.08	11.23	38.16	34.64	109	281	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	15535.38	46.99	54.00	-7.01	32.24	11.23	38.16	34.64	107	304	Average
2	15544.64	60.54	74.00	-13.46	45.79	11.23	38.16	34.64	107	304	Peak

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / 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	15598.72	59.63	74.00	-14.37	44.84	11.24	38.23	34.68	107	284 Peak	HORIZONTAL
2	15599.20	46.38	54.00	-7.62	31.59	11.24	38.23	34.68	107	284 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	15598.76	59.80	74.00	-14.20	45.01	11.24	38.23	34.68	106	292 Peak	VERTICAL
2	15599.92	46.41	54.00	-7.59	31.62	11.24	38.23	34.68	106	292 Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / 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	15716.68	46.04	54.00	-7.96	31.16	11.27	38.42	34.81	105	305 Average	HORIZONTAL
2	15720.06	59.86	74.00	-14.14	44.98	11.27	38.42	34.81	105	305 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	15715.70	59.13	74.00	-14.87	44.25	11.27	38.42	34.81	103	295 Peak	VERTICAL
2	15724.52	45.98	54.00	-8.02	31.10	11.27	38.42	34.81	103	295 Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / 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	11488.46	55.49	74.00	-18.51	41.99	9.62	38.50	34.62	109	302	Peak	HORIZONTAL
2	11490.14	41.81	54.00	-12.19	28.31	9.62	38.50	34.62	109	302	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	11487.32	41.98	54.00	-12.02	28.48	9.62	38.50	34.62	112	312	Average	VERTICAL
2	11490.96	55.13	74.00	-18.87	41.63	9.62	38.50	34.62	112	312	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / 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	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11566.64	53.49	74.00	-20.51	40.00	9.61	38.53	34.65	108	308	Peak	HORIZONTAL
2	11572.04	40.84	54.00	-13.16	27.35	9.61	38.53	34.65	108	308	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11565.82	55.44	74.00	-18.56	41.95	9.61	38.53	34.65	110	315	Peak	VERTICAL
2	11565.94	40.91	54.00	-13.09	27.42	9.61	38.53	34.65	110	315	Average	VERTICAL



Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / 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	11586.02	41.05	54.00	-12.95	27.57	9.60	38.54	34.66	112	319 Average	HORIZONTAL
2	11589.76	54.42	74.00	-19.58	40.94	9.60	38.54	34.66	112	319 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	11585.10	41.19	54.00	-12.81	27.71	9.60	38.54	34.66	110	313 Average	VERTICAL
2	11589.06	53.95	74.00	-20.05	40.47	9.60	38.54	34.66	110	313 Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / 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	15572.58	60.42	74.00	-13.58	45.63	11.24	38.23	34.68	110	310 Peak	HORIZONTAL
2	15573.54	46.63	54.00	-7.37	31.84	11.24	38.23	34.68	110	310 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	15567.80	46.64	54.00	-7.36	31.85	11.24	38.23	34.68	118	331 Average	VERTICAL
2	15568.90	60.66	74.00	-13.34	45.87	11.24	38.23	34.68	118	331 Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / 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	15690.00	59.73	74.00	-14.27	44.89	11.26	38.35	34.77	109	290	Peak
2	15690.00	45.91	54.00	-8.09	31.07	11.26	38.35	34.77	109	290	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	15690.00	59.42	74.00	-14.58	44.58	11.26	38.35	34.77	112	321	Peak
2	15690.00	46.25	54.00	-7.75	31.41	11.26	38.35	34.77	112	321	Average

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / 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	11510.00	54.92	74.00	-19.08	41.43	9.62	38.50	34.63	109	330	Peak	HORIZONTAL
2	11513.30	41.83	54.00	-12.17	28.34	9.62	38.50	34.63	109	330	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	11510.00	41.71	54.00	-12.29	28.22	9.62	38.50	34.63	113	302	Average	VERTICAL
2	11510.00	56.64	74.00	-17.36	43.15	9.62	38.50	34.63	113	302	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / 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	11587.84	53.77	74.00	-20.23	40.29	9.60	38.54	34.66	119	307	Peak
2	11591.64	40.89	54.00	-13.11	27.41	9.60	38.54	34.66	119	307	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	11585.74	41.14	54.00	-12.86	27.66	9.60	38.54	34.66	120	295	Average
2	11591.80	54.39	74.00	-19.61	40.91	9.60	38.54	34.66	120	295	Peak

Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / 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	15632.42	45.98	54.00	-8.02	31.17	11.25	38.29	34.73	108	313	Average
2	15633.78	59.02	74.00	-14.98	44.21	11.25	38.29	34.73	108	313	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	15625.78	46.12	54.00	-7.88	31.31	11.25	38.29	34.73	107	325	Average
2	15626.68	59.26	74.00	-14.74	44.45	11.25	38.29	34.73	107	325	Peak

Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / 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	11546.44	41.09	54.00	-12.91	27.60	9.61	38.51	34.63	108	302	Average
2	11550.40	54.25	74.00	-19.75	40.76	9.61	38.53	34.65	108	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	11546.64	41.32	54.00	-12.68	27.85	9.61	38.51	34.65	106	285	Average
2	11551.00	55.01	74.00	-18.99	41.52	9.61	38.53	34.65	106	285	Peak

<For Beamforming Mode>

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / 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	15545.07	46.35	54.00	-7.65	31.60	11.23	38.16	34.64	175	117 Average	HORIZONTAL
2	15548.65	59.14	74.00	-14.86	44.39	11.23	38.16	34.64	175	117 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	15537.45	59.25	74.00	-14.75	44.50	11.23	38.16	34.64	244	212 Peak	VERTICAL
2	15546.45	46.37	54.00	-7.63	31.62	11.23	38.16	34.64	244	212 Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / 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	15601.62	47.04	54.00	-6.96	32.18	11.25	38.29	34.68	214	272 Average	HORIZONTAL
2	15608.83	59.19	74.00	-14.81	44.33	11.25	38.29	34.68	214	272 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	15591.61	59.11	74.00	-14.89	44.32	11.24	38.23	34.68	183	68 Peak	VERTICAL
2	15593.29	46.64	54.00	-7.36	31.85	11.24	38.23	34.68	183	68 Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / 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	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15711.43	60.47	74.00	-13.53	45.55	11.27	38.42	34.77	246	266	Peak
2	15718.93	47.72	54.00	-6.28	32.84	11.27	38.42	34.81	246	266	Average

Vertical

	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	15717.13	60.64	74.00	-13.36	45.76	11.27	38.42	34.81	218	160	Peak
2	15726.11	47.64	54.00	-6.36	32.76	11.27	38.42	34.81	218	160	Average

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / 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	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11496.40	55.99	74.00	-18.01	42.49	9.62	38.50	34.62	191	330	Peak	HORIZONTAL
2	11497.15	43.89	54.00	-10.11	30.39	9.62	38.50	34.62	191	330	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11488.81	55.77	74.00	-18.23	42.27	9.62	38.50	34.62	184	66	Peak	VERTICAL
2	11489.48	42.97	54.00	-11.03	29.47	9.62	38.50	34.62	184	66	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / 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	11568.03	44.71	54.00	-9.29	31.22	9.61	38.53	34.65	191	286 Average	HORIZONTAL
2	11571.13	57.67	74.00	-16.33	44.18	9.61	38.53	34.65	191	286 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	11565.25	56.82	74.00	-17.18	43.33	9.61	38.53	34.65	154	49 Peak	VERTICAL
2	11578.39	44.82	54.00	-9.18	31.33	9.61	38.53	34.65	154	49 Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / 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	11653.18	57.33	74.00	-16.67	43.84	9.60	38.57	34.68	194	312	Peak	HORIZONTAL
2	11655.59	45.05	54.00	-8.95	31.56	9.60	38.57	34.68	194	312	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	11644.79	45.10	54.00	-8.90	31.63	9.60	38.55	34.68	226	56	Average	VERTICAL
2	11652.87	57.72	74.00	-16.28	44.23	9.60	38.57	34.68	226	56	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / 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	15576.24	46.79	54.00	-7.21	32.00	11.24	38.23	34.68	170	238	Average	HORIZONTAL
2	15586.88	59.99	74.00	-14.01	45.20	11.24	38.23	34.68	170	238	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	15550.80	47.09	54.00	-6.91	32.34	11.23	38.16	34.64	252	55	Average	VERTICAL
2	15585.44	60.22	74.00	-13.78	45.43	11.24	38.23	34.68	252	55	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / 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	15688.76	59.16	74.00	-14.84	44.32	11.26	38.35	34.77	168	204	Peak	HORIZONTAL
2	15692.00	45.98	54.00	-8.02	31.06	11.27	38.42	34.77	168	204	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	15686.80	46.03	54.00	-7.97	31.19	11.26	38.35	34.77	120	10	Average	VERTICAL
2	15690.16	58.93	74.00	-15.07	44.09	11.26	38.35	34.77	120	10	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / 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	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11503.04	55.13	74.00	-18.87	41.63	9.62	38.50	34.62	255	57	Peak	HORIZONTAL
2	11504.36	42.74	54.00	-11.26	29.24	9.62	38.50	34.62	255	57	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamplifier Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11503.20	55.82	74.00	-18.18	42.32	9.62	38.50	34.62	249	246	Peak	VERTICAL
2	11506.20	42.04	54.00	-11.96	28.54	9.62	38.50	34.62	249	246	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / 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	11590.08	41.76	54.00	-12.24	28.28	9.60	38.54	34.66	189	291	Average
2	11595.52	54.89	74.00	-19.11	41.41	9.60	38.54	34.66	189	291	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	11586.48	53.89	74.00	-20.11	40.41	9.60	38.54	34.66	256	5	Peak
2	11596.12	41.36	54.00	-12.64	27.88	9.60	38.54	34.66	256	5	Average

Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / 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	15611.04	46.41	54.00	-7.59	31.60	11.25	38.29	34.73	177	262	Average
2	15626.08	58.90	74.00	-15.10	44.09	11.25	38.29	34.73	177	262	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	15613.60	46.38	54.00	-7.62	31.57	11.25	38.29	34.73	286	98	Average
2	15617.60	58.86	74.00	-15.14	44.05	11.25	38.29	34.73	286	98	Peak

Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / 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	11543.44	54.48	74.00	-19.52	40.99	9.61	38.51	34.63	184	296	Peak	HORIZONTAL
2	11563.20	41.84	54.00	-12.16	28.35	9.61	38.53	34.65	184	296	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	11533.68	41.99	54.00	-12.01	28.50	9.61	38.51	34.63	210	94	Average	VERTICAL
2	11537.60	53.90	74.00	-20.10	40.41	9.61	38.51	34.63	210	94	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.

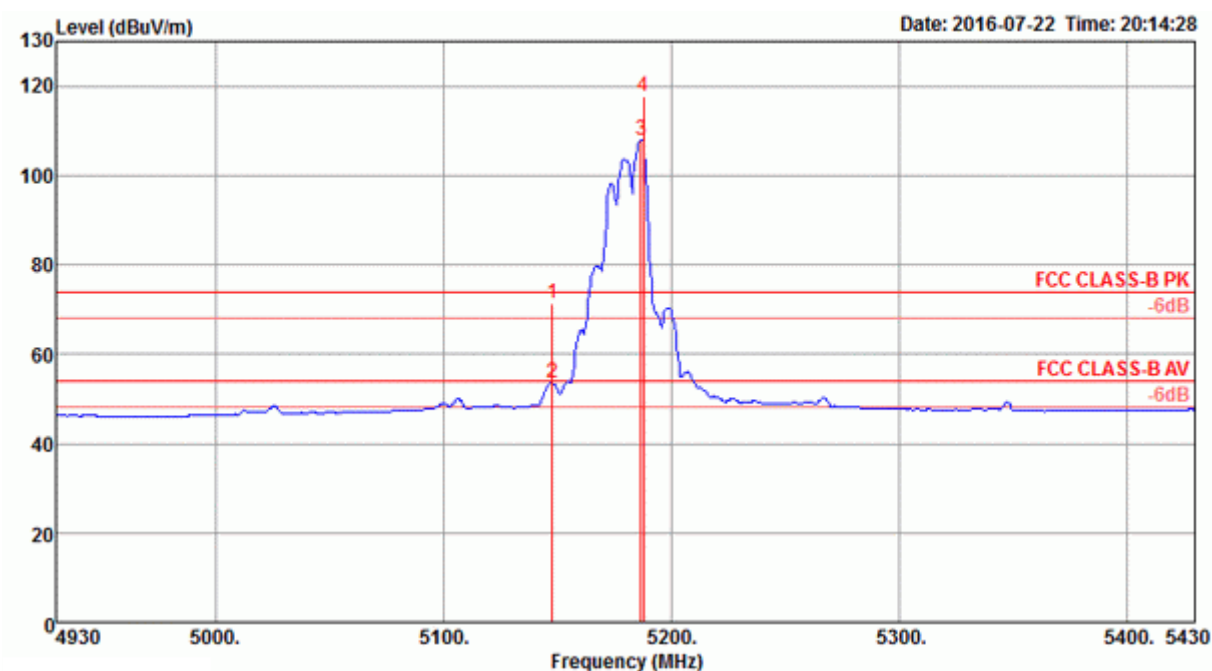
Band Edge Emissions

Dipole Antenna

<For Non-Beamforming Mode>

Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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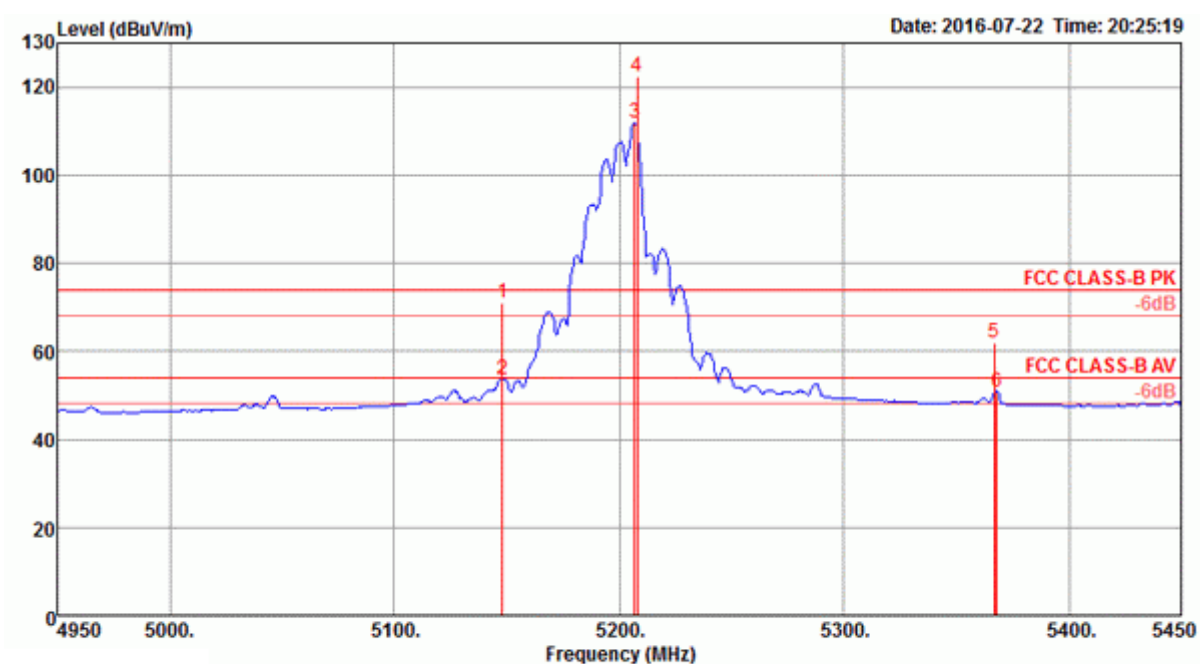
Channel 36



	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	5148.00	71.25	74.00	-2.75	64.51	7.90	33.31	34.47	285	308	Peak
2	5148.00	53.56	54.00	-0.44	46.82	7.90	33.31	34.47	285	308	Average
3	5187.00	107.93			101.04	7.98	33.38	34.47	285	308	Average
4	5188.00	117.68			110.79	7.98	33.38	34.47	285	308	Peak

Item 3, 4 are the fundamental frequency at 5180 MHz.

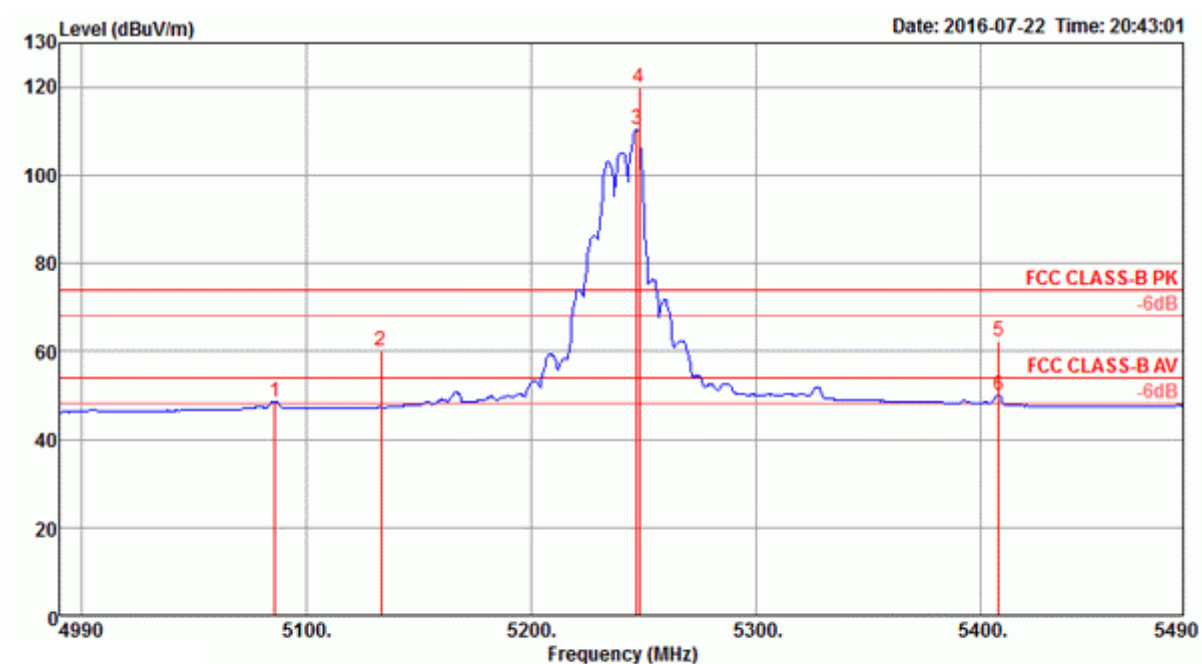
Channel 40



	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	5148.00	71.05	74.00	-2.95	64.31	7.90	33.31	34.47	252	309 Peak	HORIZONTAL
2	5148.00	53.70	54.00	-0.30	46.96	7.90	33.31	34.47	252	309 Average	HORIZONTAL
3	5207.00	111.74	54.00			7.97	33.40	34.47	252	309 Average	HORIZONTAL
4	5208.00	122.40	74.00			7.97	33.40	34.47	252	309 Peak	HORIZONTAL
5	5367.00	61.78	74.00	-12.22	54.76	7.88	33.61	34.47	252	309 Peak	HORIZONTAL
6	5368.00	50.79	54.00	-3.21	43.77	7.88	33.61	34.47	252	309 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

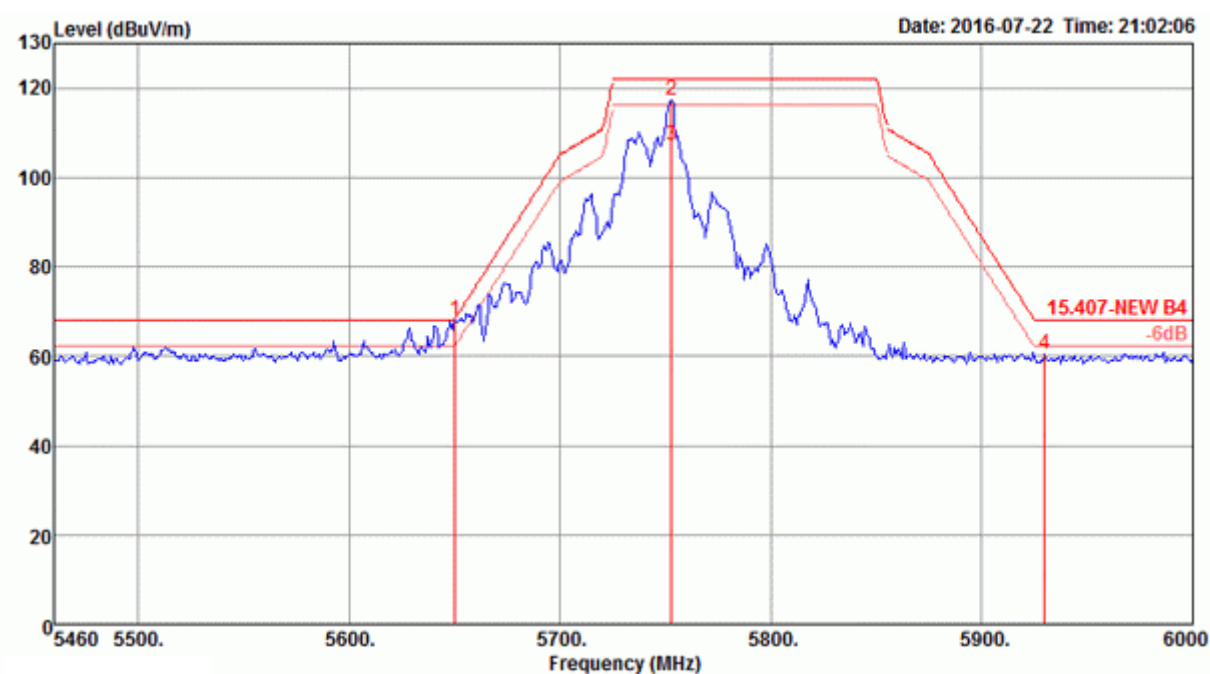


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5086.00	48.63	54.00	-5.37	42.07	7.80	33.23	34.47	246	311 Average	HORIZONTAL
2	5133.00	60.26	74.00	-13.74	53.56	7.88	33.29	34.47	246	311 Peak	HORIZONTAL
3	5247.00	110.36	54.00			7.94	33.46	34.47	246	311 Average	HORIZONTAL
4	5248.00	120.01	74.00			7.94	33.46	34.47	246	311 Peak	HORIZONTAL
5	5408.00	62.18	74.00	-11.82	55.11	7.87	33.67	34.47	246	311 Peak	HORIZONTAL
6	5408.00	50.10	54.00	-3.90	43.03	7.87	33.67	34.47	246	311 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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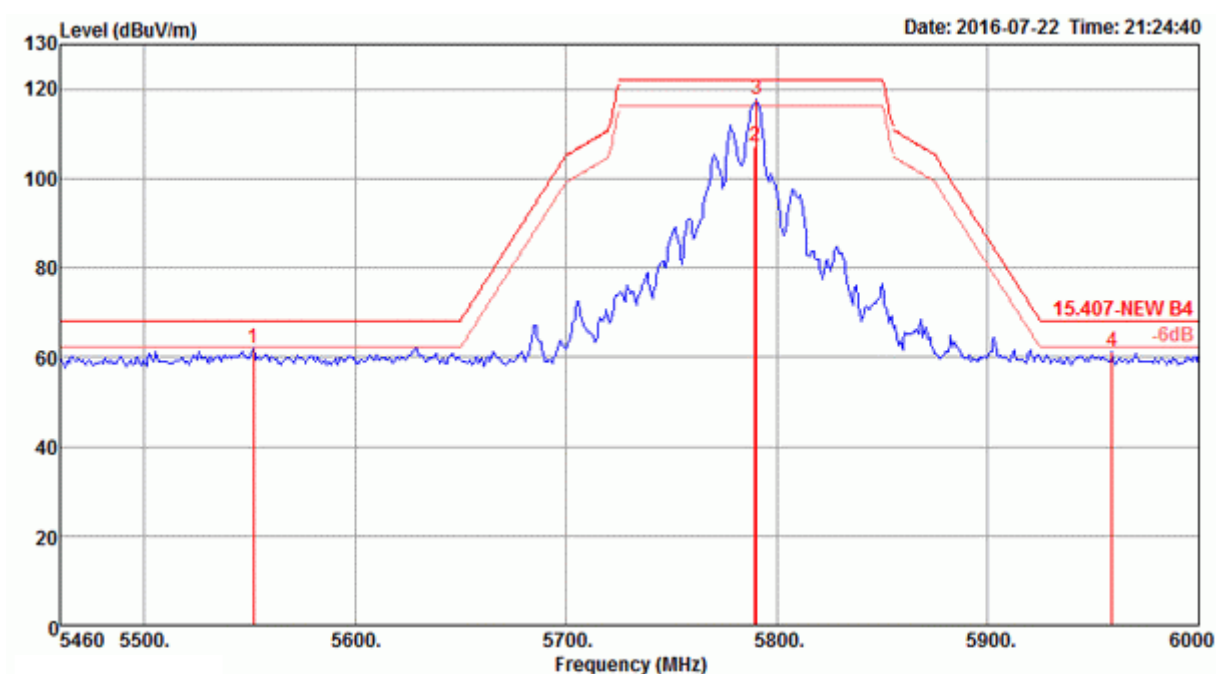
Channel 149



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	5650.08	67.96	68.26	-0.30	60.29	7.92	34.25	34.50	304	302	Peak
2	5752.68	117.34			109.45	7.86	34.55	34.52	304	302	Peak
3	5752.68	107.11			99.22	7.86	34.55	34.52	304	302	Average
4	5929.80	60.46	68.20	-7.74	52.17	7.75	35.10	34.56	304	302	Peak

Item 2, 3 are the fundamental frequency at 5745 MHz.

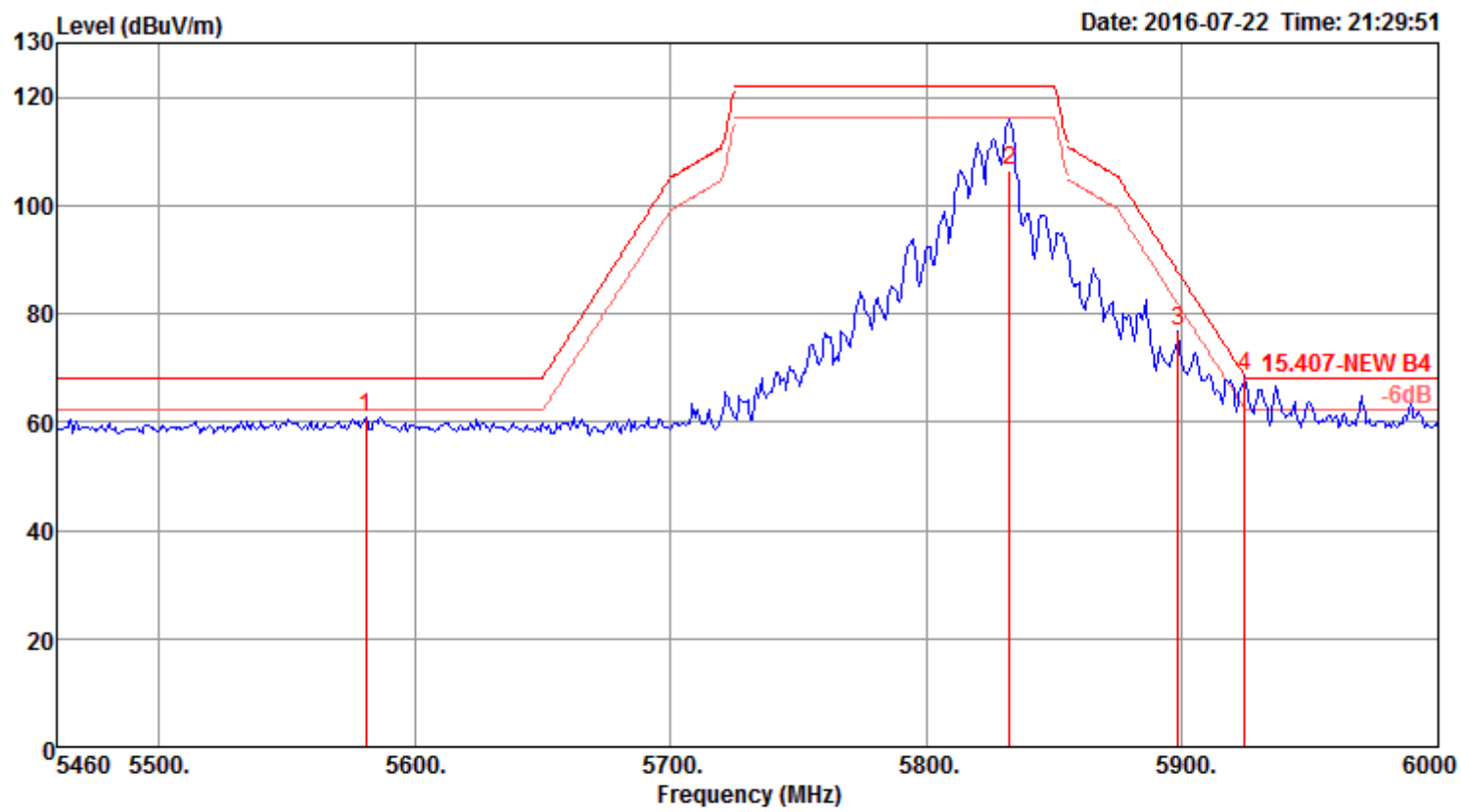
Channel 157



	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	5551.80	61.98	68.20	-6.22	54.58	7.93	33.95	34.48	300	3	Peak	VERTICAL
2	5789.40	107.17			99.17	7.83	34.70	34.53	300	3	Average	VERTICAL
3	5790.48	117.74			109.74	7.83	34.70	34.53	300	3	Peak	VERTICAL
4	5958.96	61.20	68.20	-7.00	52.83	7.73	35.20	34.56	300	3	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

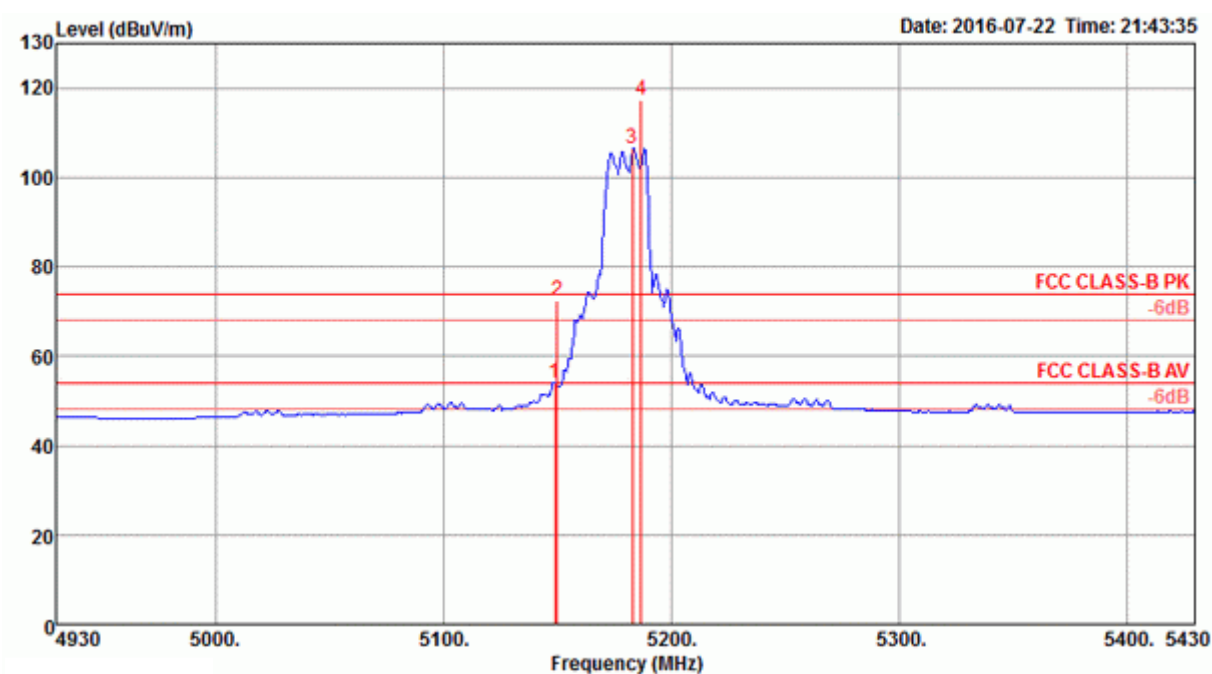


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5580.96	60.90	68.20	-7.30	53.40	7.94	34.05	34.49	250	82	Peak
2	5832.60	106.33			98.26	7.81	34.80	34.54	250	82	Average
3	5898.48	76.84			68.62	7.77	35.00	34.55	250	82	Peak
4	5924.40	68.41	68.64	-0.23	60.12	7.75	35.10	34.56	250	82	Peak

Item 2, 3 are the fundamental frequency at 5825 MHz.

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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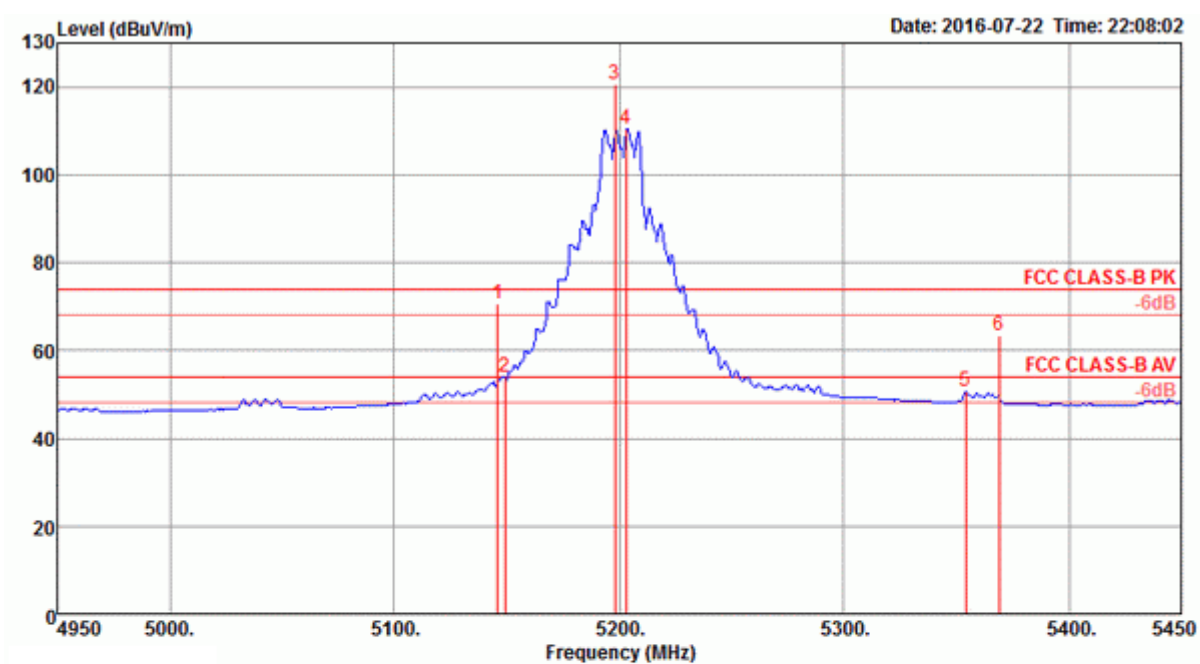
Channel 36



	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	5149.00	53.98	54.00	-0.02	47.24	7.90	33.31	34.47	282	309	Average	HORIZONTAL
2	5150.00	72.35	74.00	-1.65	65.61	7.90	33.31	34.47	282	309	Peak	HORIZONTAL
3	5183.00	106.51			99.68	7.95	33.35	34.47	282	309	Average	HORIZONTAL
4	5187.00	117.15			110.26	7.98	33.38	34.47	282	309	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

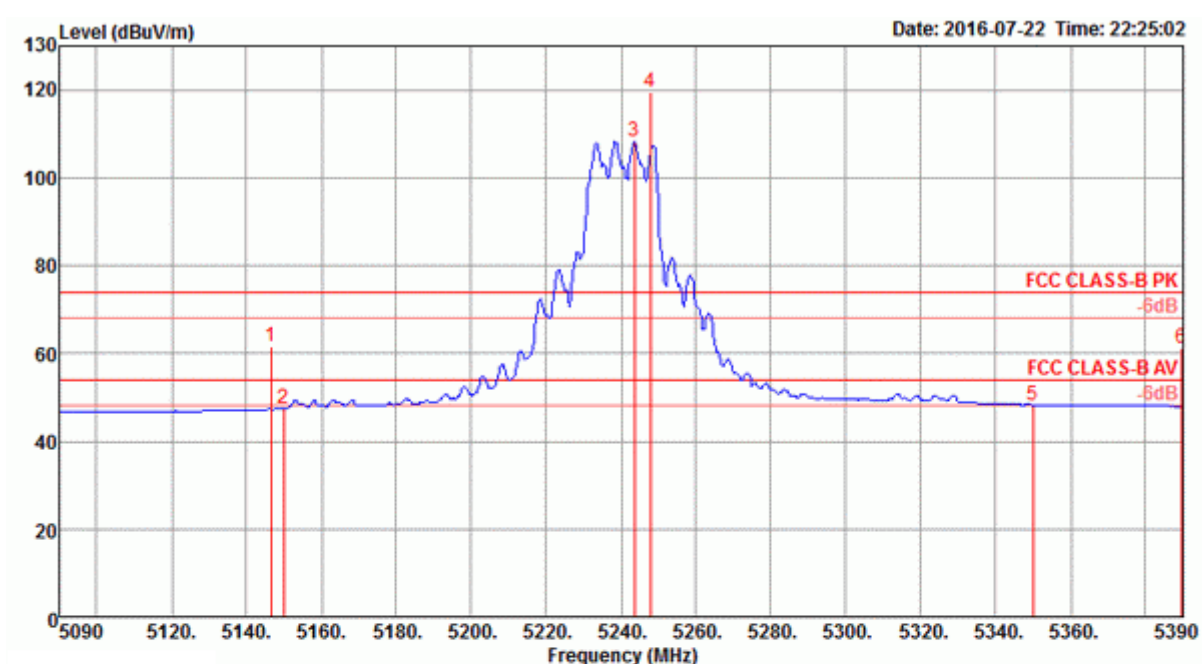
Channel 40



	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	5146.00	70.78	74.00	-3.22	64.04	7.90	33.31	34.47	251	309	Peak	HORIZONTAL
2	5149.00	53.95	54.00	-0.05	47.21	7.90	33.31	34.47	251	309	Average	HORIZONTAL
3	5198.00	120.65			113.76	7.98	33.38	34.47	251	309	Peak	HORIZONTAL
4	5203.00	110.29			103.39	7.97	33.40	34.47	251	309	Average	HORIZONTAL
5	5354.00	50.55	54.00	-3.45	43.54	7.89	33.59	34.47	251	309	Average	HORIZONTAL
6	5369.00	63.53	74.00	-10.47	56.51	7.88	33.61	34.47	251	309	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

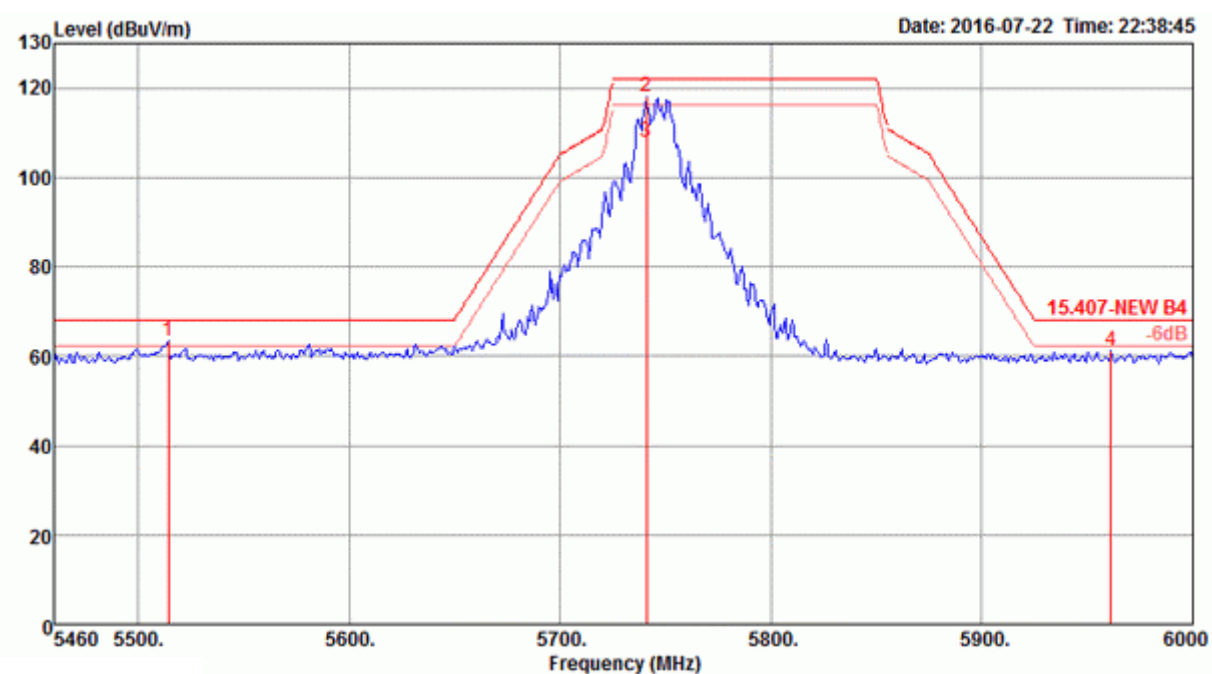


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5146.40	61.67	74.00	-12.33	54.93	7.90	33.31	34.47	282	312 Peak	HORIZONTAL
2	5150.00	47.32	54.00	-6.68	40.58	7.90	33.31	34.47	282	312 Average	HORIZONTAL
3	5243.60	108.17	54.00			7.95	33.44	34.47	282	312 Average	HORIZONTAL
4	5247.80	119.45	74.00			7.94	33.46	34.47	282	312 Peak	HORIZONTAL
5	5350.00	48.32	54.00	-5.68	41.31	7.89	33.59	34.47	282	312 Average	HORIZONTAL
6	5389.40	61.19	74.00	-12.81	54.15	7.86	33.65	34.47	282	312 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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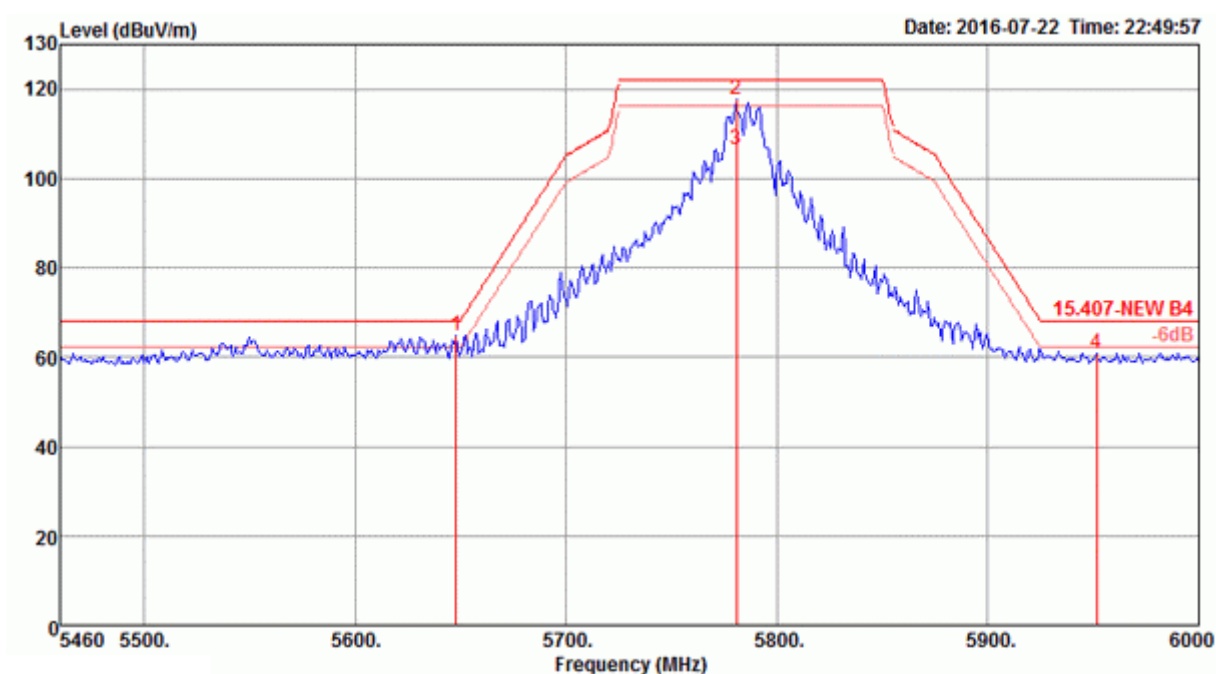
Channel 149



	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	5514.00	63.19	68.20	-5.01	55.89	7.92	33.85	34.47	265	54 Peak	HORIZONTAL
2	5740.80	117.87			109.98	7.86	34.55	34.52	265	54 Peak	HORIZONTAL
3	5740.80	107.99			100.10	7.86	34.55	34.52	265	54 Average	HORIZONTAL
4	5961.12	61.02	68.20	-7.18	52.65	7.73	35.20	34.56	265	54 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

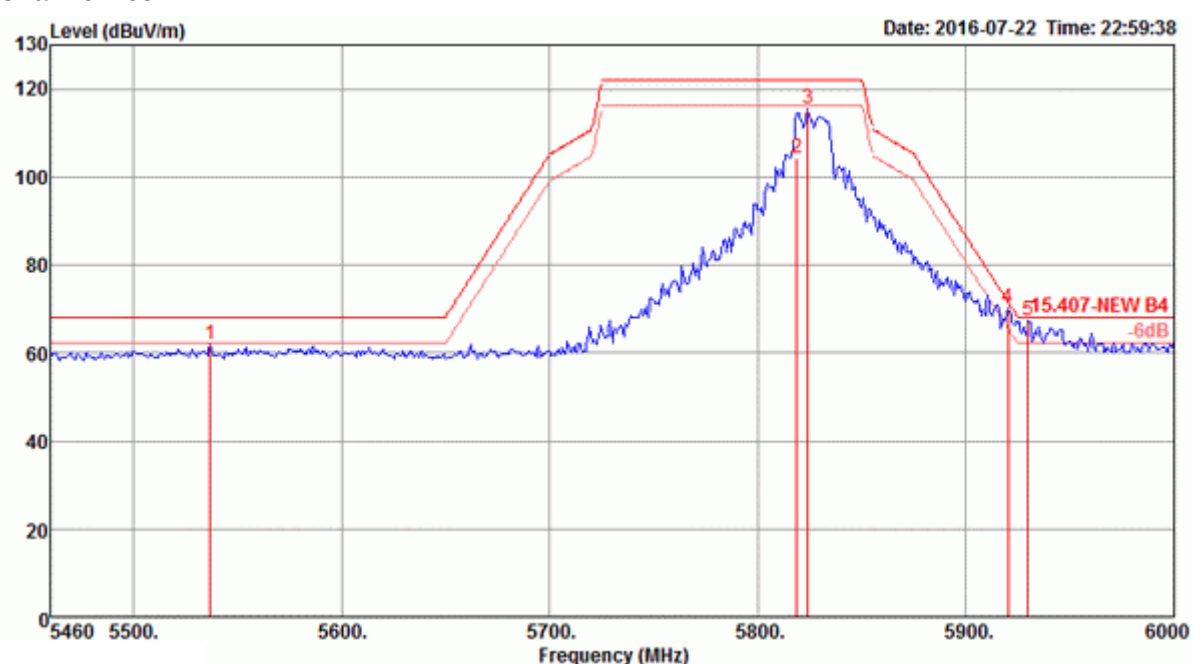
Channel 157



	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	5647.92	64.88	68.20	-3.32	57.21	7.92	34.25	34.50	265	52	Peak	HORIZONTAL
2	5780.76	117.54			109.58	7.84	34.65	34.53	265	52	Peak	HORIZONTAL
3	5780.76	106.54			98.58	7.84	34.65	34.53	265	52	Average	HORIZONTAL
4	5951.40	60.95	68.20	-7.25	52.62	7.74	35.15	34.56	265	52	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

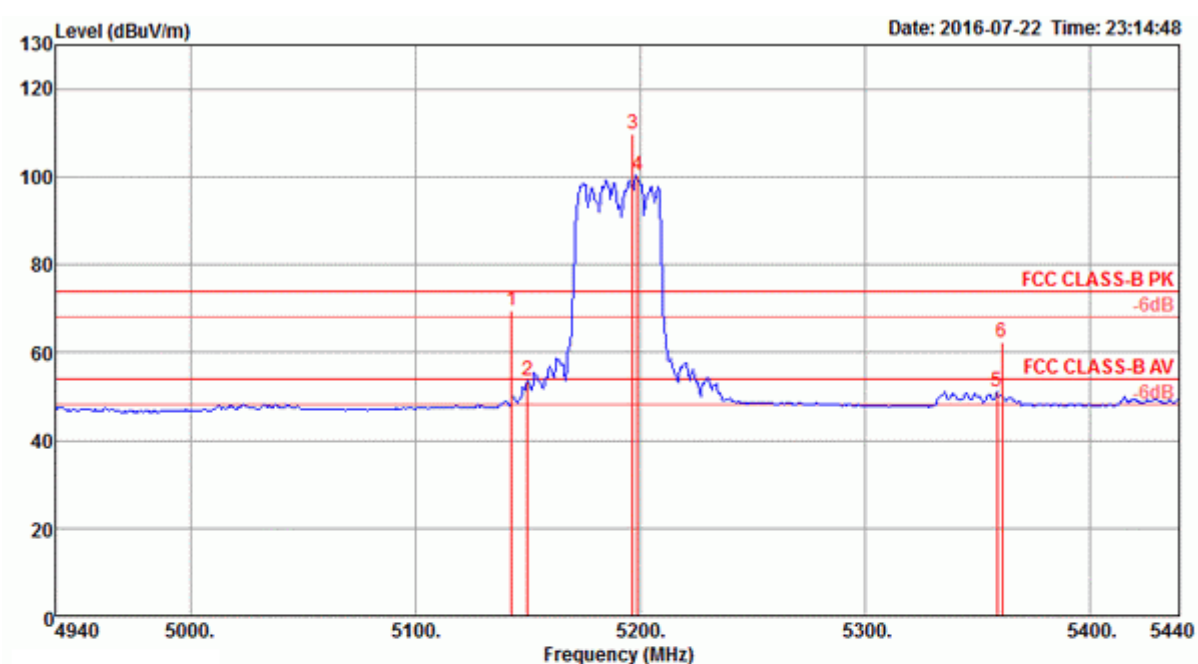


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5536.68	61.77	68.20	-6.43	54.43	7.92	33.90	34.48	252	79 Peak	HORIZONTAL
2	5818.56	104.42			96.38	7.82	34.75	34.53	252	79 Average	HORIZONTAL
3	5823.96	115.40			107.33	7.81	34.80	34.54	252	79 Peak	HORIZONTAL
4	5920.08	70.30	71.83	-1.53	62.05	7.76	35.05	34.56	252	79 Peak	HORIZONTAL
5	5929.80	67.36	68.20	-0.84	59.07	7.75	35.10	34.56	252	79 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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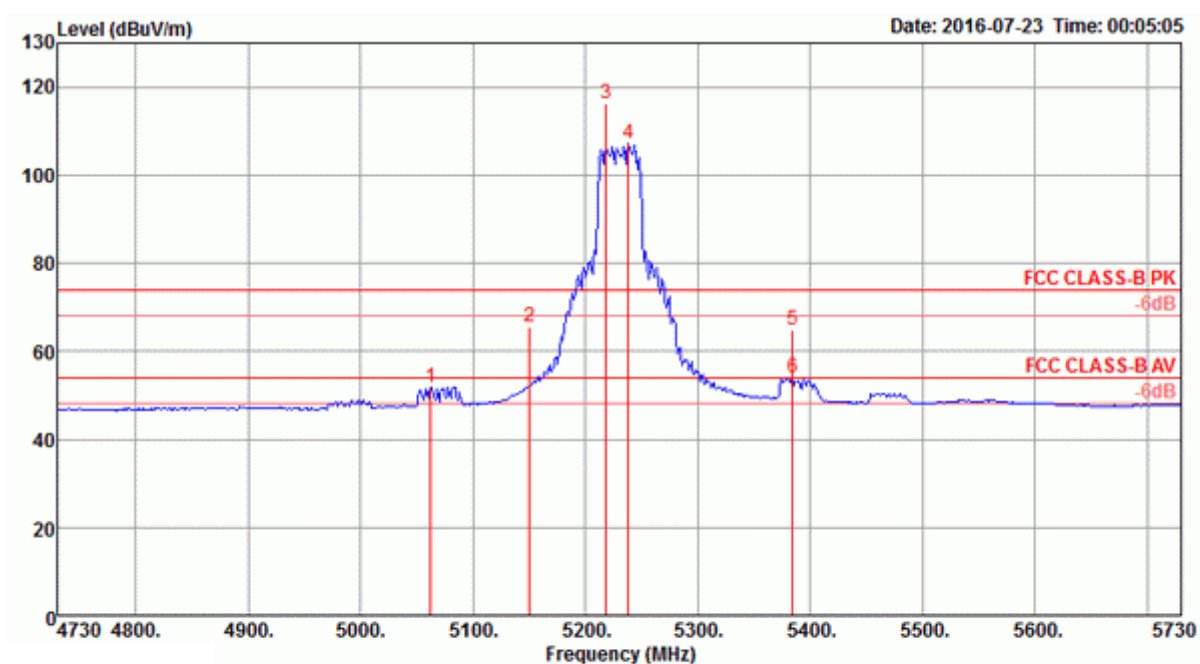
Channel 38



	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	5143.00	69.58	74.00	-4.42	62.84	7.90	33.31	34.47	252	314 Peak	HORIZONTAL
2	5150.00	53.58	54.00	-0.42	46.84	7.90	33.31	34.47	252	314 Average	HORIZONTAL
3	5197.00	109.62			102.73	7.98	33.38	34.47	252	314 Peak	HORIZONTAL
4	5199.00	100.23			93.34	7.98	33.38	34.47	252	314 Average	HORIZONTAL
5	5359.00	50.92	54.00	-3.08	43.90	7.88	33.61	34.47	252	314 Average	HORIZONTAL
6	5361.00	62.36	74.00	-11.64	55.34	7.88	33.61	34.47	252	314 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46



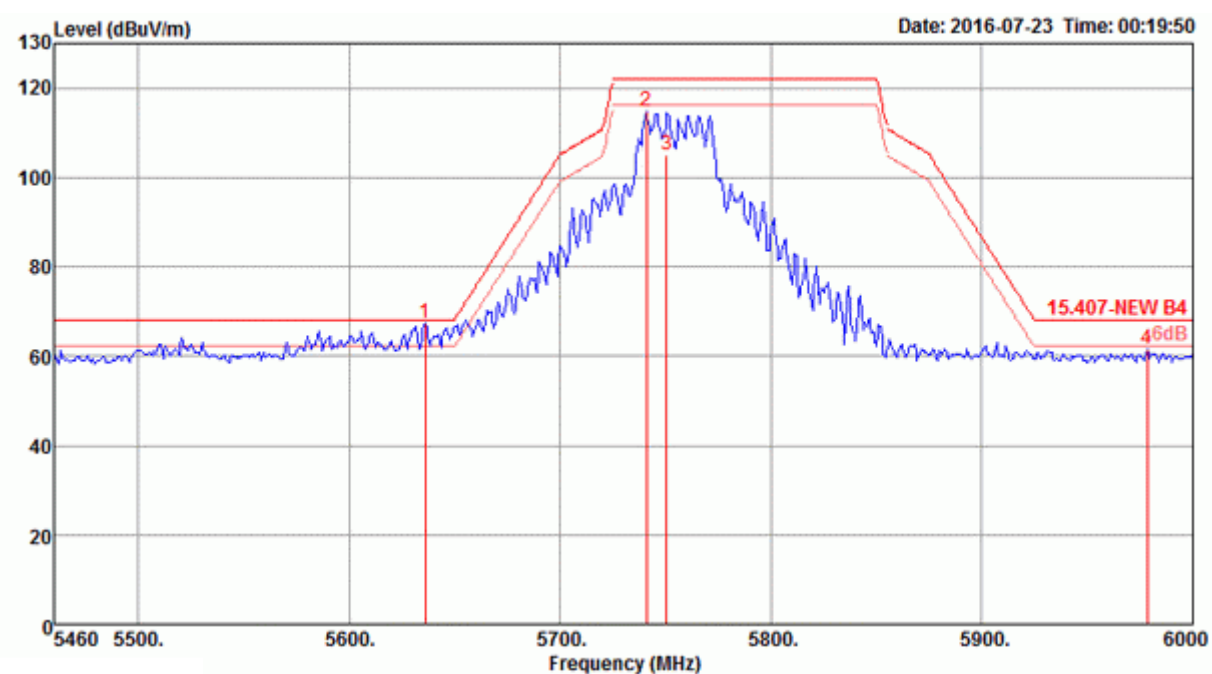
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5062.00	51.80	54.00	-2.20	45.34	7.75	33.18	34.47	248	310	Average
2	5150.00	65.40	74.00	-8.60	58.66	7.90	33.31	34.47	248	310	Peak
3	5218.00	116.21	74.00			7.96	33.42	34.47	248	310	Peak
4	5238.00	107.05	54.00			7.95	33.44	34.47	248	310	Average
5	5384.00	64.96	74.00	-9.04	57.93	7.87	33.63	34.47	248	310	Peak
6	5384.00	53.93	54.00	-0.07	46.90	7.87	33.63	34.47	248	310	Average

Item 3, 4 are the fundamental frequency at 5230 MHz.

Configurations

IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4

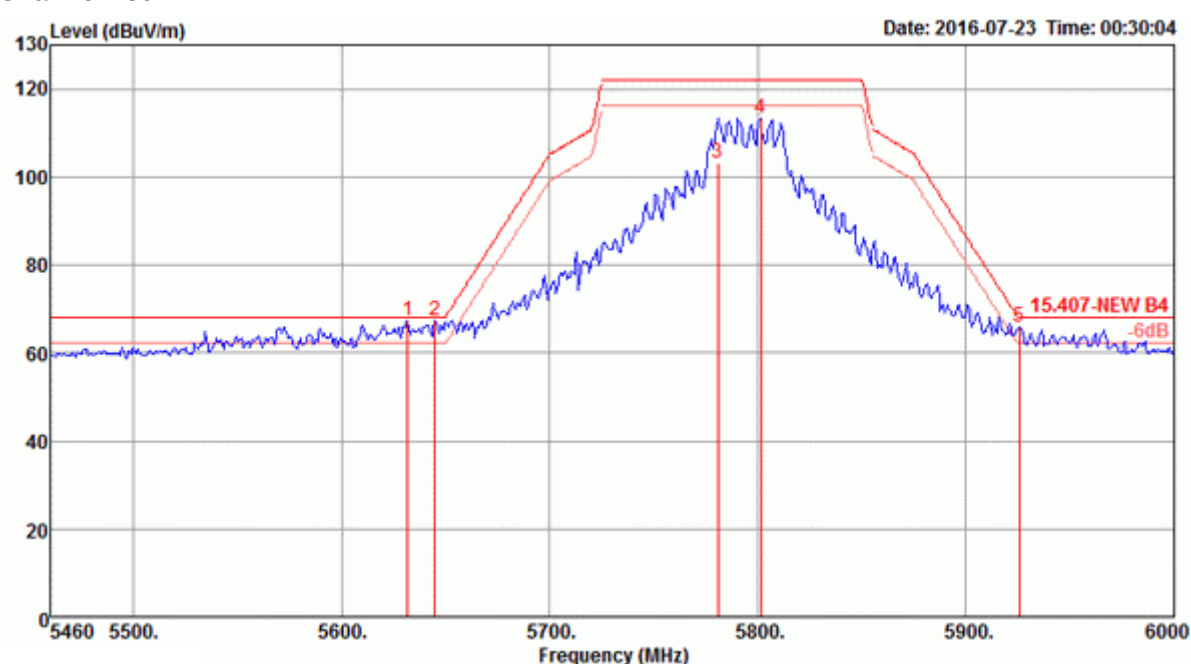
Channel 151



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	5636.04	67.44	68.20	-0.76	59.81	7.93	34.20	34.50	264	56 Peak	HORIZONTAL
2	5740.80	114.65			106.76	7.86	34.55	34.52	264	56 Peak	HORIZONTAL
3	5750.52	104.96			97.07	7.86	34.55	34.52	264	56 Average	HORIZONTAL
4	5978.40	61.58	68.20	-6.62	53.18	7.72	35.25	34.57	264	56 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159



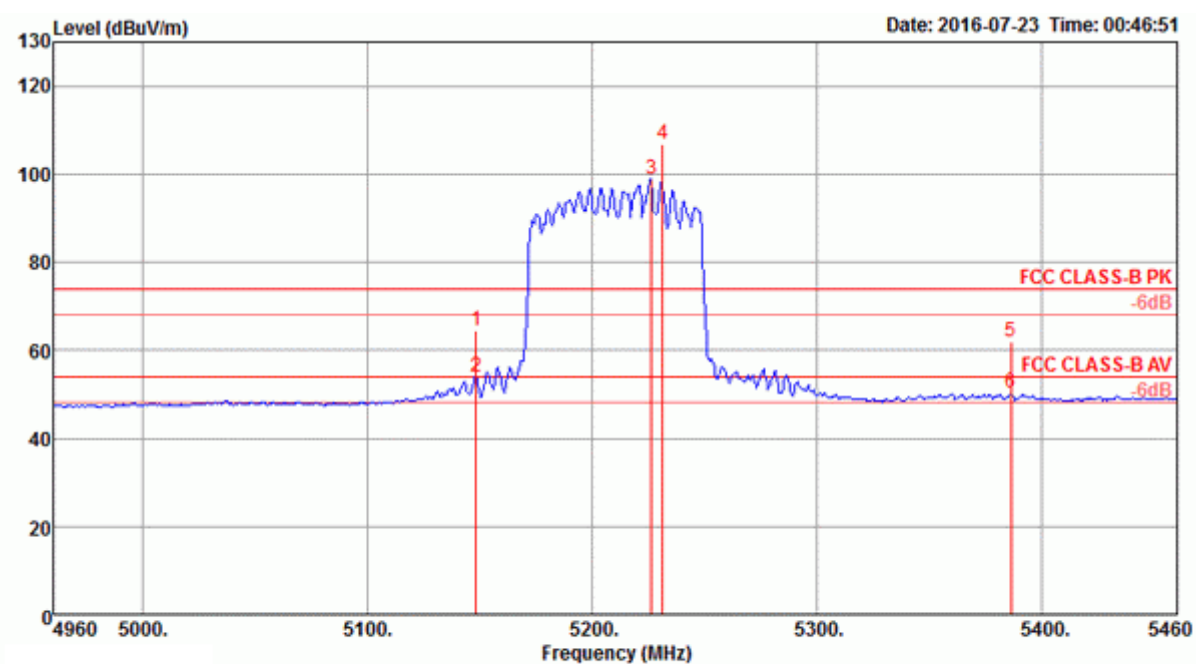
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5631.72	67.17	68.20	-1.03	59.54	7.93	34.20	34.50	262	56 Peak	HORIZONTAL
2	5644.68	67.51	68.20	-0.69	59.84	7.92	34.25	34.50	262	56 Peak	HORIZONTAL
3	5780.76	103.13			95.17	7.84	34.65	34.53	262	56 Average	HORIZONTAL
4	5801.28	113.38			105.38	7.83	34.70	34.53	262	56 Peak	HORIZONTAL
5	5925.48	65.86	68.20	-2.34	57.57	7.75	35.10	34.56	262	56 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Configurations

IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4

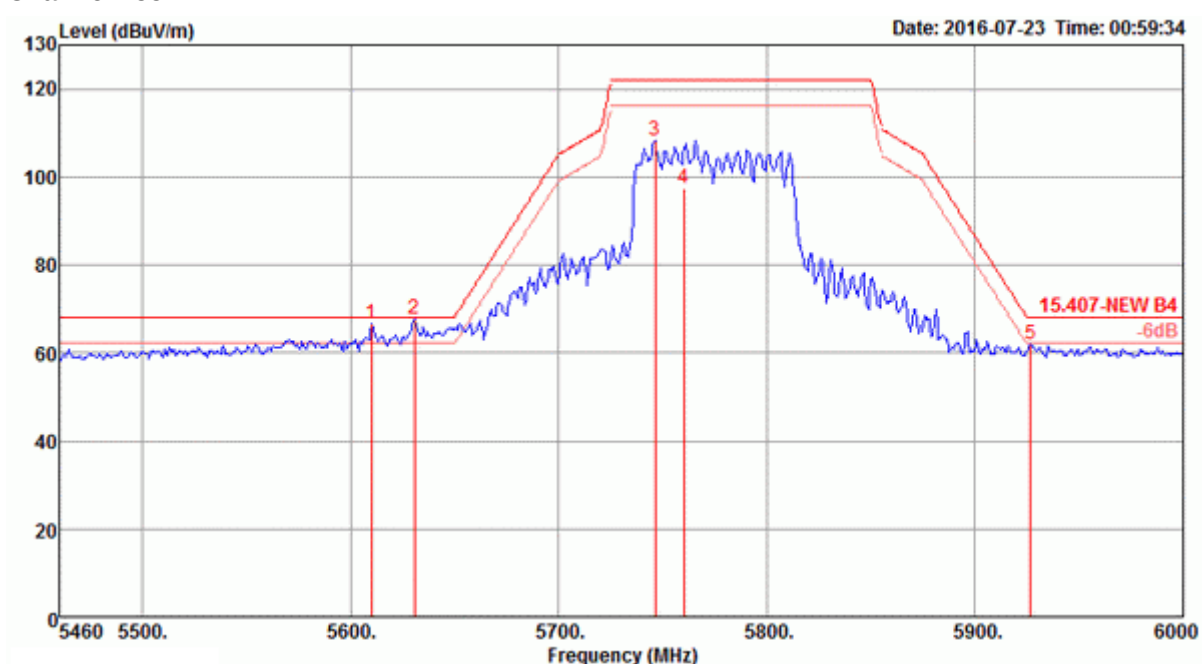
Channel 42



	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	5148.00	64.54	74.00	-9.46	57.80	7.90	33.31	34.47	290	308	Peak
2	5148.00	53.88	54.00	-0.12	47.14	7.90	33.31	34.47	290	308	Average
3	5226.00	98.75			91.84	7.96	33.42	34.47	290	308	Average
4	5231.00	106.65			99.74	7.96	33.42	34.47	290	308	Peak
5	5386.00	61.77	74.00	-12.23	54.73	7.86	33.65	34.47	290	308	Peak
6	5386.00	50.51	54.00	-3.49	43.47	7.86	33.65	34.47	290	308	Average

Item 2, 3 are the fundamental frequency at 5210 MHz.

Channel 155



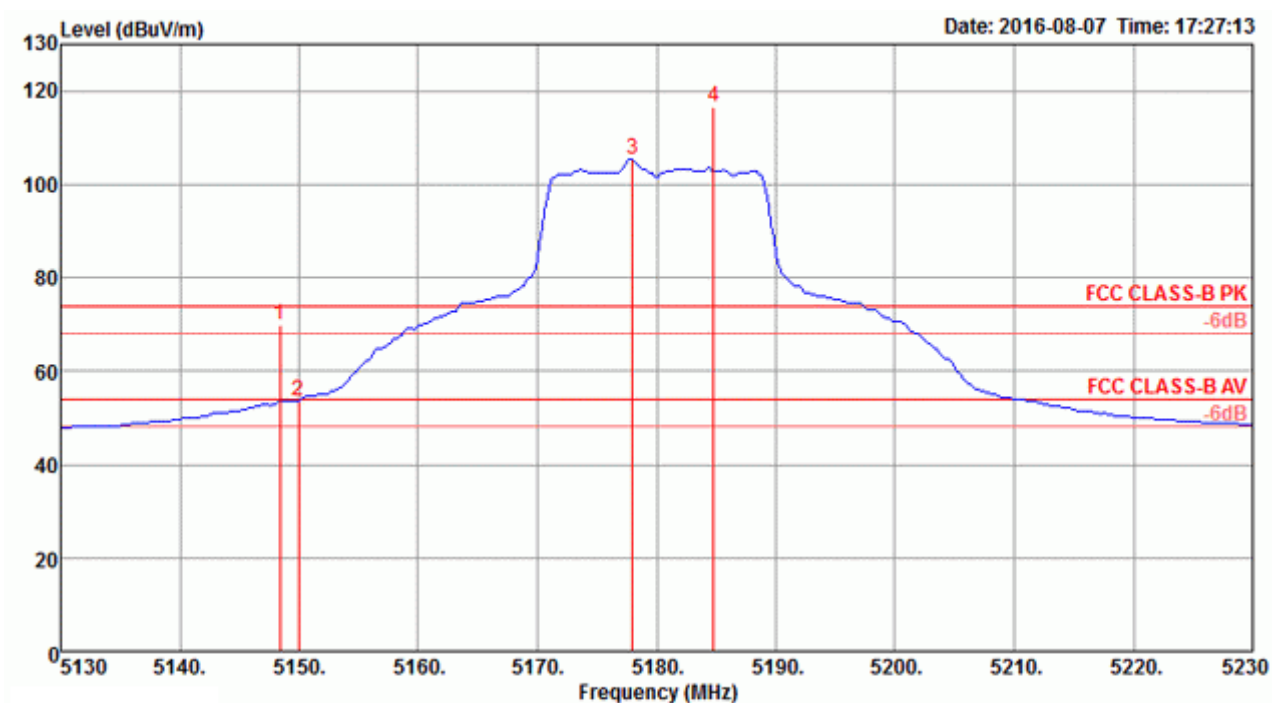
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5610.12	66.74	68.20	-1.46	59.14	7.94	34.15	34.49	264	55	Peak
2	5630.64	67.64	68.20	-0.56	60.01	7.93	34.20	34.50	264	55	Peak
3	5746.20	108.41			100.52	7.86	34.55	34.52	264	55	Peak
4	5760.24	97.45			89.52	7.85	34.60	34.52	264	55	Average
5	5926.56	61.75	68.20	-6.45	53.46	7.75	35.10	34.56	264	55	Peak

Item 3, 4 are the fundamental frequency at 5775 MHz.

<For Beamforming Mode>

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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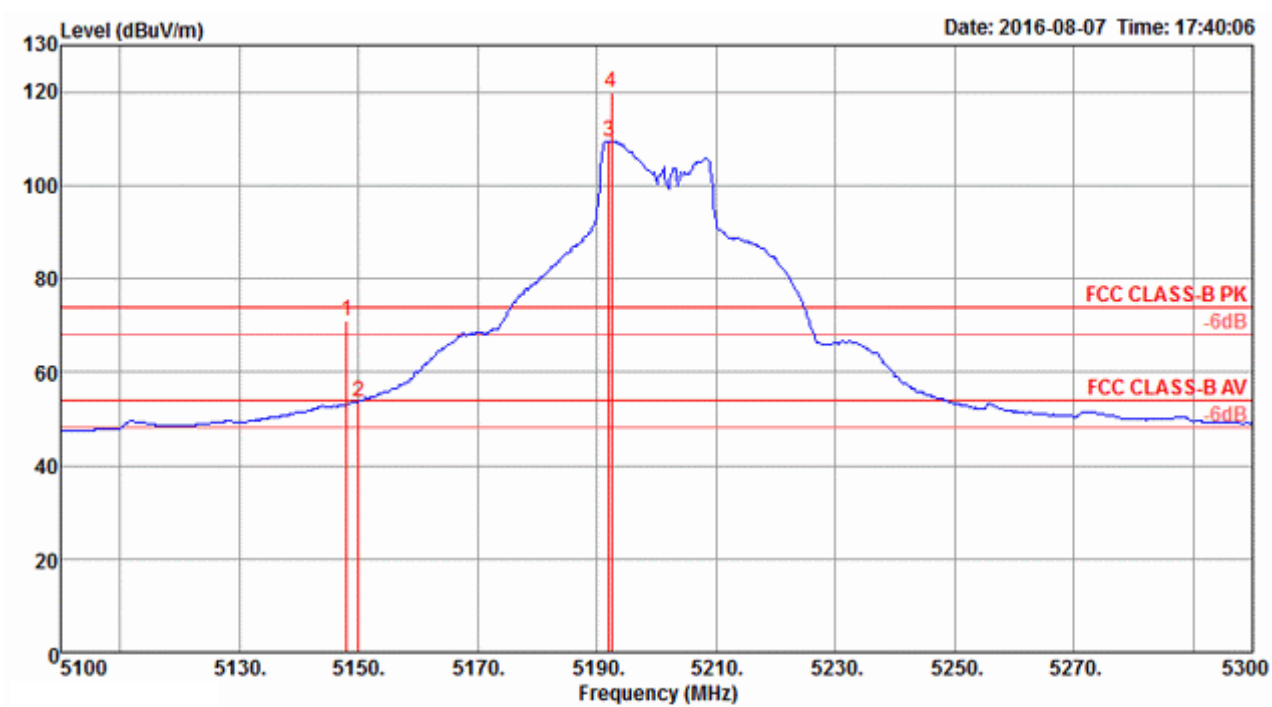
Channel 36



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	Remark
1	5148.40	70.00	74.00	-4.00	63.26	7.90	33.31	34.47	283	190	Peak
2	5150.00	53.63	54.00	-0.37	46.89	7.90	33.31	34.47	283	190	Average
3	5178.00	105.43			98.60	7.95	33.35	34.47	283	190	Average
4	5184.80	116.55			109.72	7.95	33.35	34.47	283	190	Peak

Item 3, 4 are the fundamental frequency at 5180 MHz.

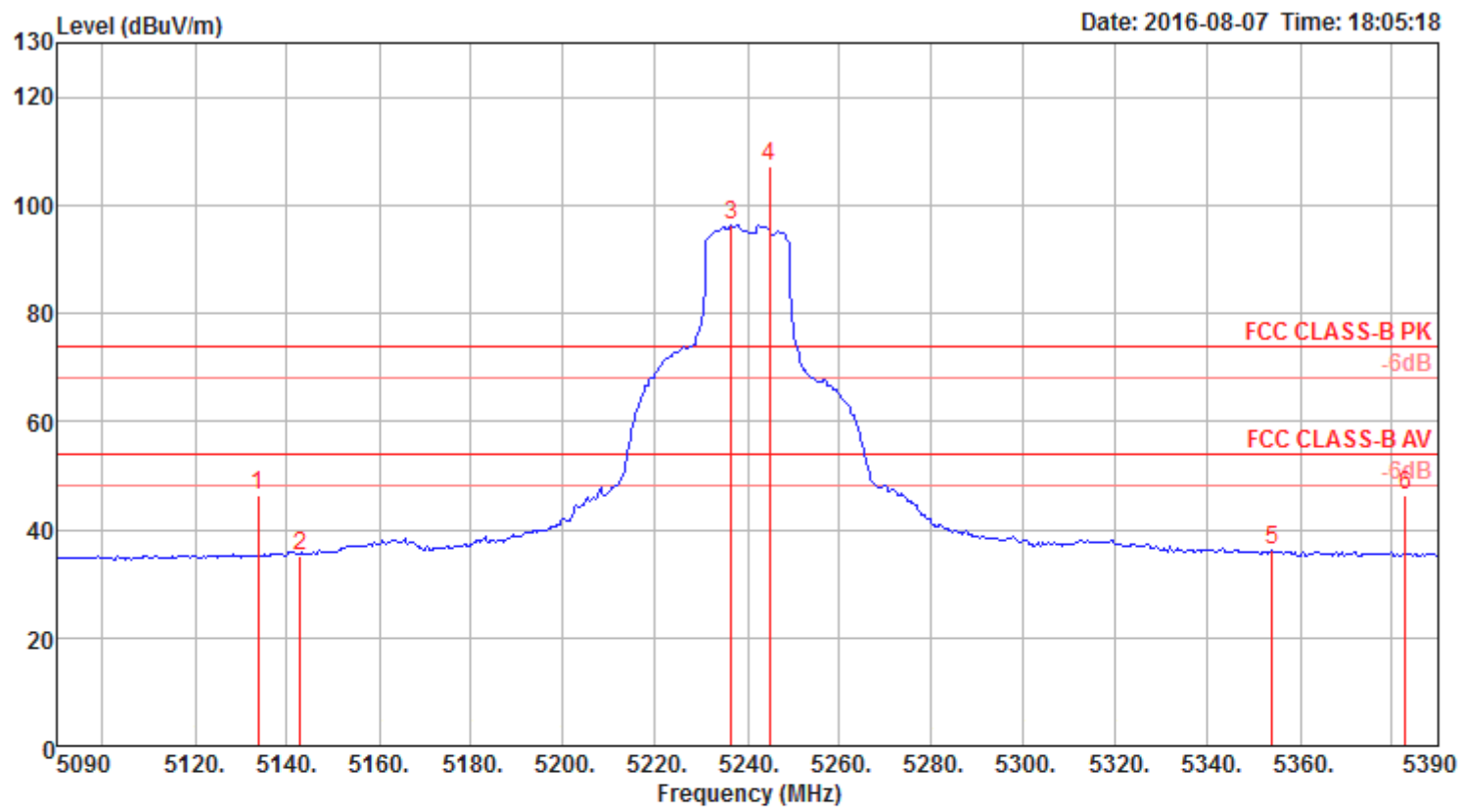
Channel 40



	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	5148.00	70.82	74.00	-3.18	64.08	7.90	33.31	34.47	303	11	Peak	VERTICAL
2	5150.00	53.70	54.00	-0.30	46.96	7.90	33.31	34.47	303	11	Average	VERTICAL
3	5192.00	109.42			102.53	7.98	33.38	34.47	303	11	Average	VERTICAL
4	5192.40	119.82			112.93	7.98	33.38	34.47	303	11	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48



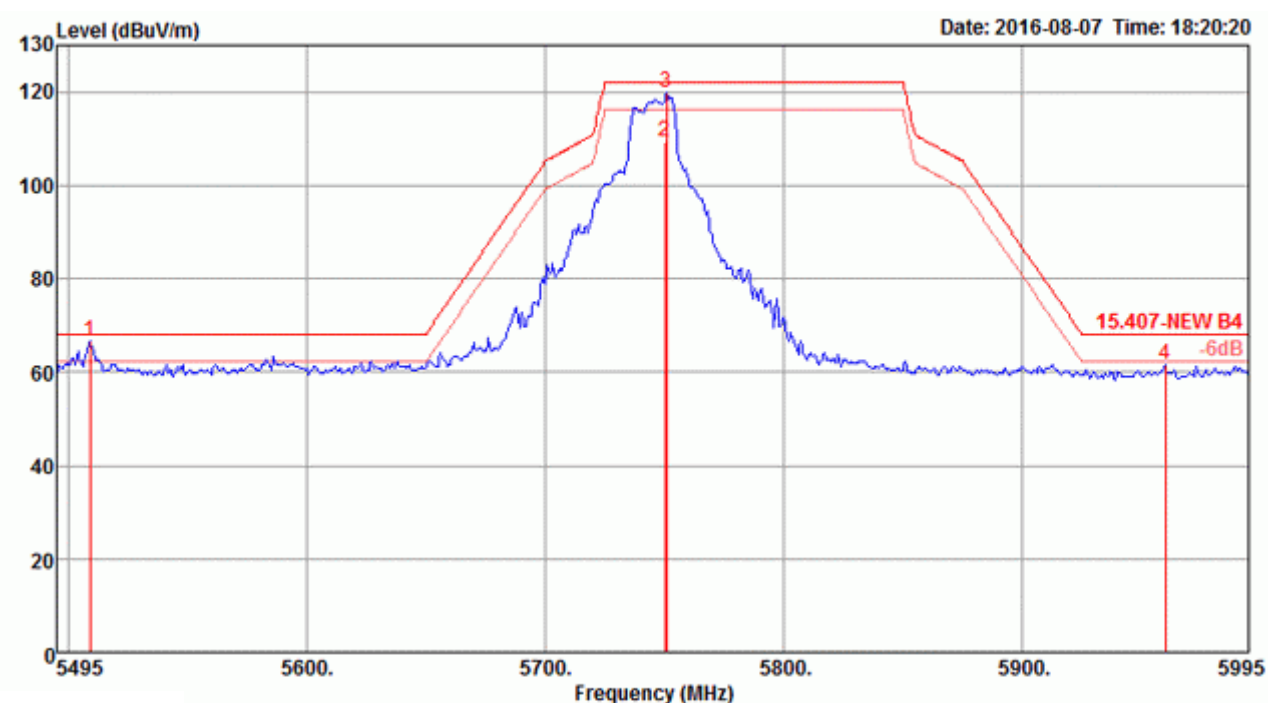
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5133.80	46.29	74.00	-27.71	39.59	7.88	33.29	34.47	215	184	Peak	VERTICAL
2	5142.80	35.27	54.00	-18.73	28.53	7.90	33.31	34.47	215	184	Average	VERTICAL
3 @	5236.40	96.34			89.42	7.95	33.44	34.47	215	184	Average	VERTICAL
4 @	5244.80	107.35			100.43	7.95	33.44	34.47	215	184	Peak	VERTICAL
5	5354.00	36.09	54.00	-17.91	29.08	7.89	33.59	34.47	215	184	Average	VERTICAL
6	5382.80	46.37	74.00	-27.63	39.34	7.87	33.63	34.47	215	184	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Configurations

IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4

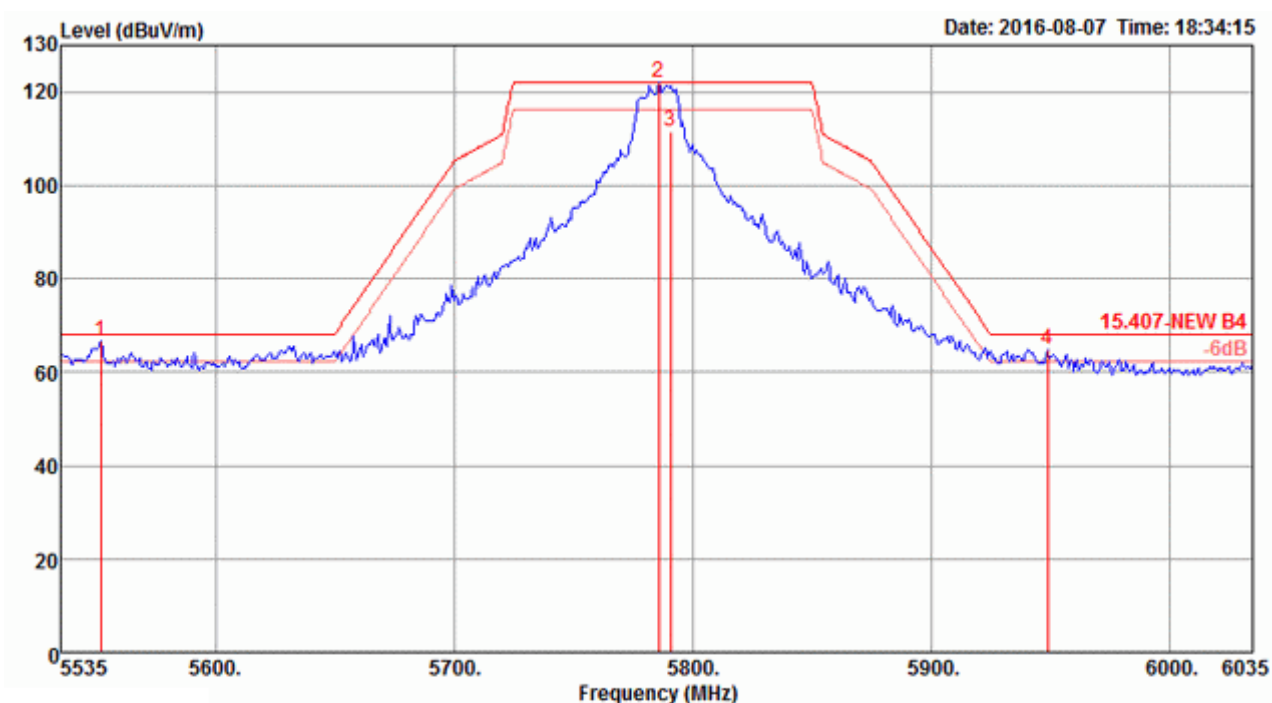
Channel 149



	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	5509.00	66.72	68.20	-1.48	59.48	7.91	33.80	34.47	206	198	Peak
2	5750.00	109.51			101.62	7.86	34.55	34.52	206	198	Peak
3	5751.00	119.86			111.97	7.86	34.55	34.52	206	198	Peak
4	5960.00	61.53	68.20	-6.67	53.16	7.73	35.20	34.56	206	198	Peak

Item 2, 3 are the fundamental frequency at 5745 MHz.

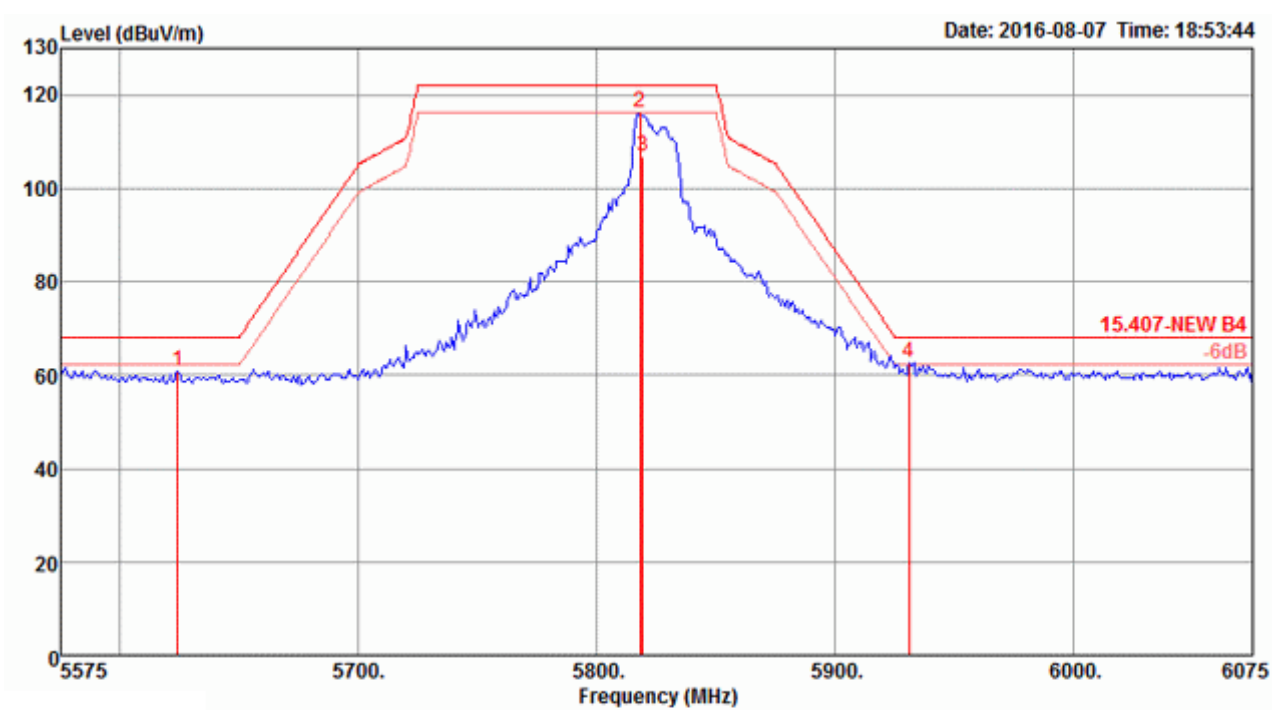
Channel 157



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos		
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	Remark
1	5552.00	66.66	68.20	-1.54	59.26	7.93	33.95	34.48	197	174	Peak
2	5786.00	121.89			113.93	7.84	34.65	34.53	197	174	Peak
3	5791.00	111.43			103.43	7.83	34.70	34.53	197	174	Average
4	5949.00	64.98	68.20	-3.22	56.65	7.74	35.15	34.56	197	174	Peak

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

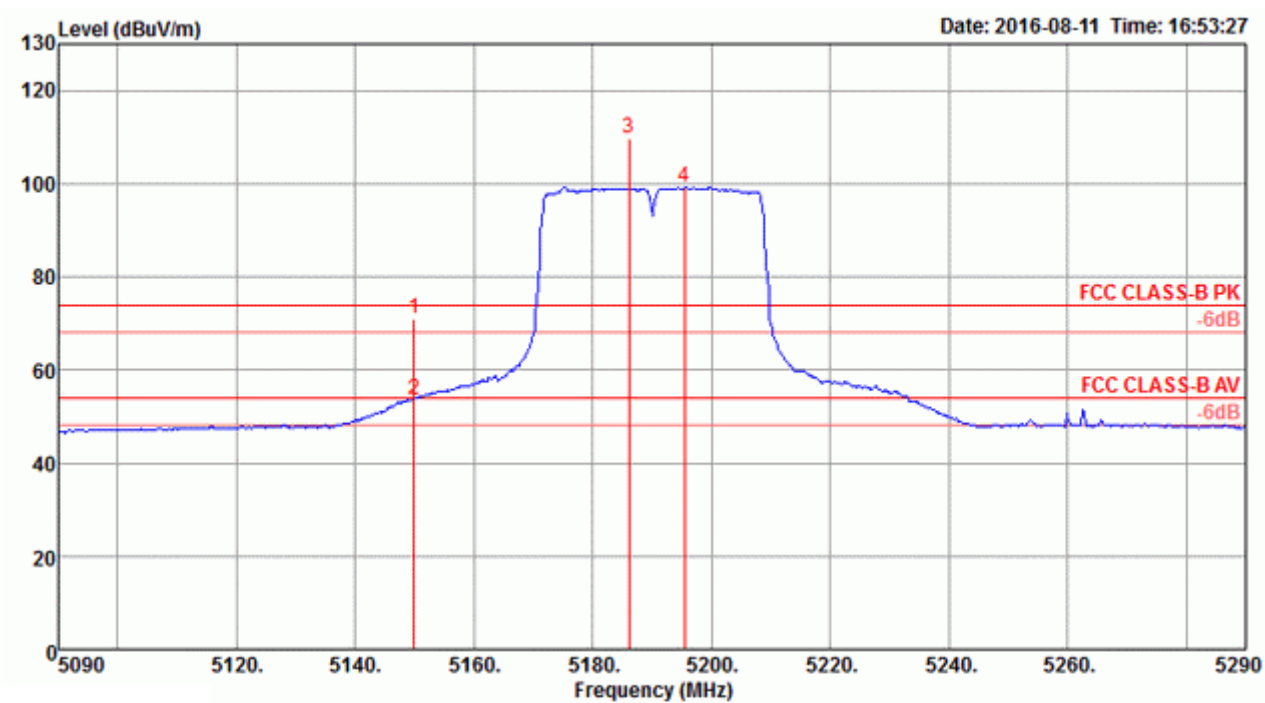


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5624.00	60.98	68.20	-7.22	53.35	7.93	34.20	34.50	219	16	Peak	HORIZONTAL
2	5818.00	116.08			108.04	7.82	34.75	34.53	219	16	Peak	HORIZONTAL
3	5819.00	106.86			98.82	7.82	34.75	34.53	219	16	Average	HORIZONTAL
4	5931.00	62.68	68.20	-5.52	54.39	7.75	35.10	34.56	219	16	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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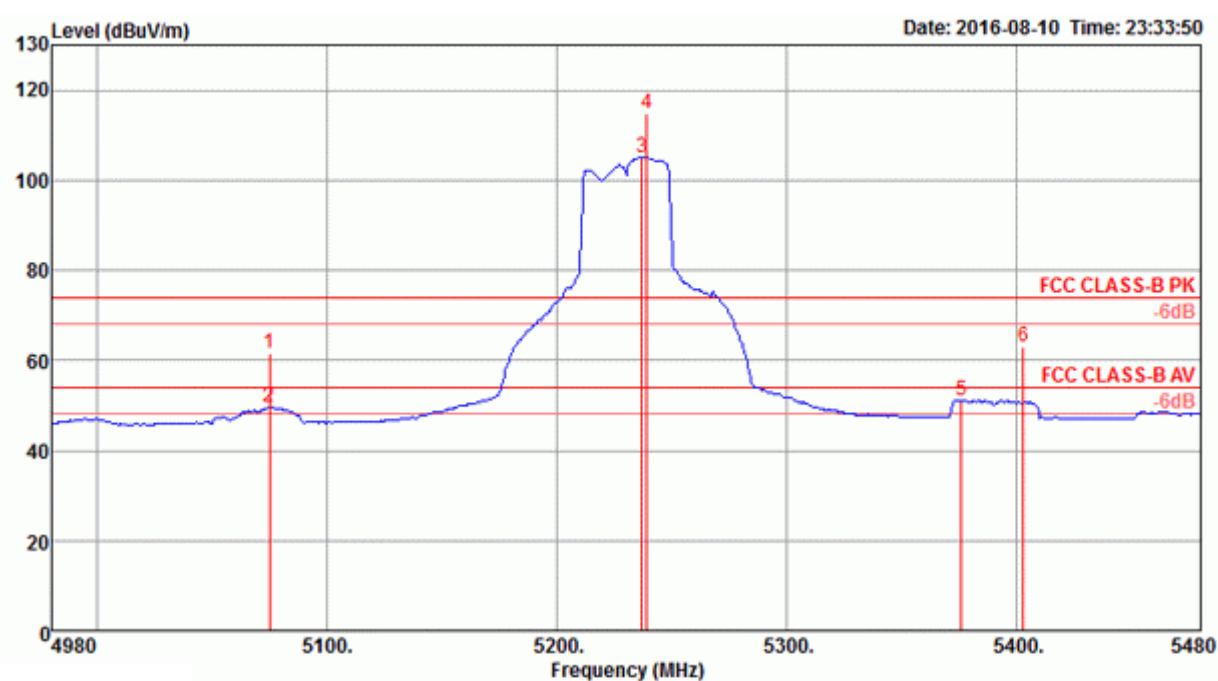
Channel 38



	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	5150.00	70.86	74.00	-3.14	64.12	7.90	33.31	34.47	113	313	Peak
2	5150.00	53.76	54.00	-0.24	47.02	7.90	33.31	34.47	113	313	Average
3	5186.15	109.68			102.85	7.95	33.35	34.47	113	313	Peak
4	5195.45	99.15			92.26	7.98	33.38	34.47	113	313	Average

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46



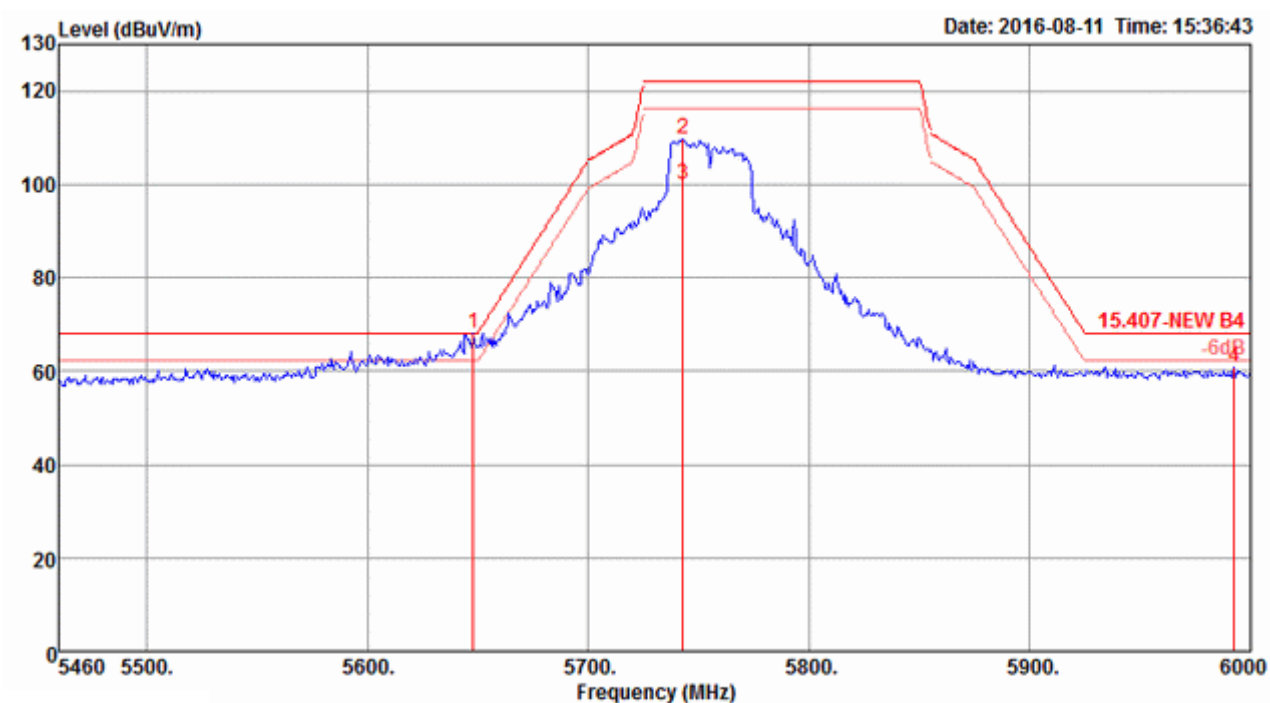
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5075.00	61.43	74.00	-12.57	54.92	7.77	33.21	34.47	290	312	Peak
2	5075.00	49.54	54.00	-4.46	43.03	7.77	33.21	34.47	290	312	Average
3	5237.00	105.17			98.25	7.95	33.44	34.47	290	312	Average
4	5239.00	114.62			107.70	7.95	33.44	34.47	290	312	Peak
5	5376.00	51.07	54.00	-2.93	44.04	7.87	33.63	34.47	290	312	Average
6	5403.00	63.02	74.00	-10.98	55.95	7.87	33.67	34.47	290	312	Peak

Item 3, 4 are the fundamental frequency at 5230 MHz.

Configurations

IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4

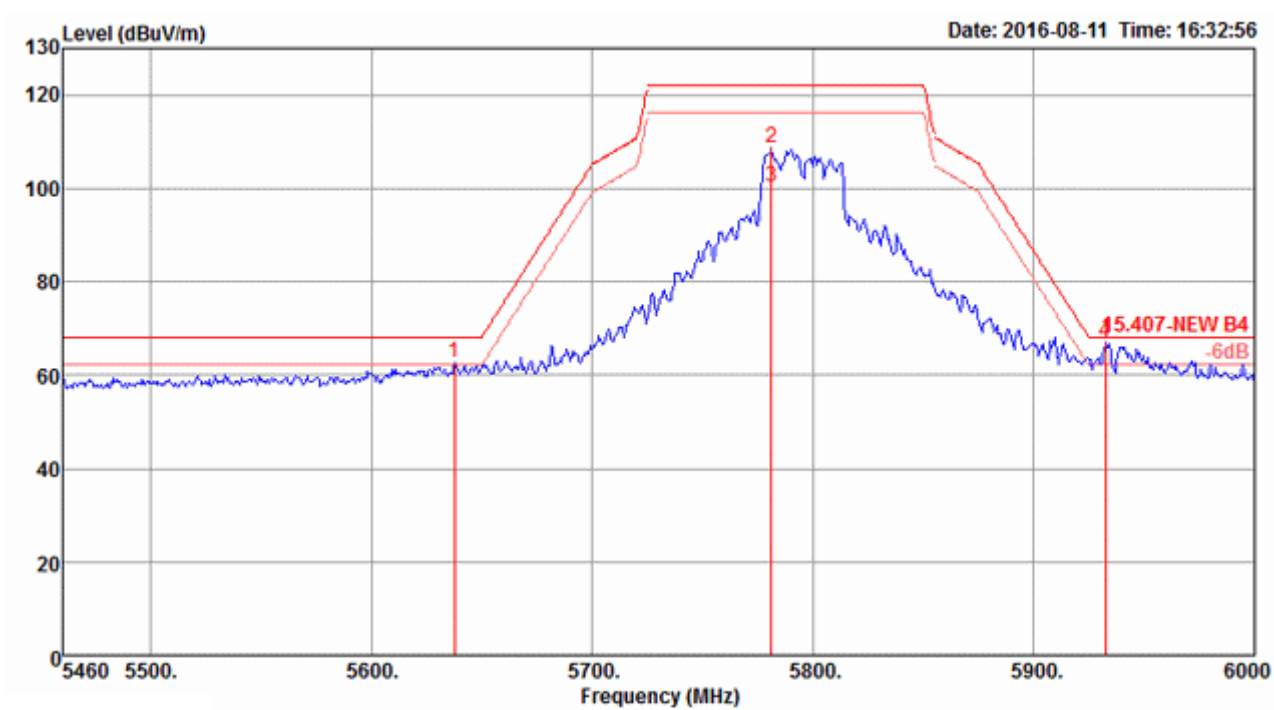
Channel 151



	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	5647.92	67.90	68.20	-0.30	60.23	7.92	34.25	34.50	214	113	Peak
2	5742.96	109.82			101.93	7.86	34.55	34.52	214	113	Peak
3	5742.98	100.05			92.16	7.86	34.55	34.52	214	113	Average
4	5992.44	60.71	68.20	-7.49	52.31	7.72	35.25	34.57	214	113	Peak

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

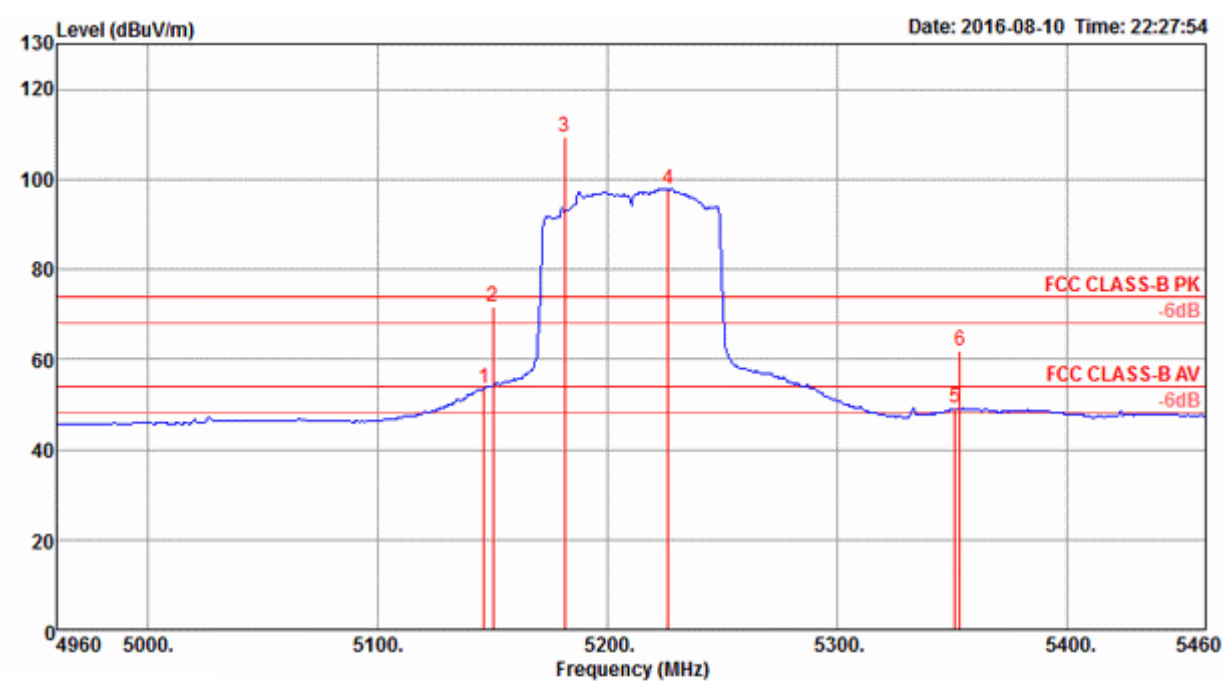


	Freq	Level	Limit	Over	Read	CableAntenna	Preampl	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5637.66	62.62	68.20	-5.58	54.99	7.93	34.20	34.50	216	86	Peak
2	5781.30	108.71			100.75	7.84	34.65	34.53	216	86	Peak
3	5781.30	100.21			92.25	7.84	34.65	34.53	216	86	Average
4	5932.50	66.97	68.20	-1.23	58.68	7.75	35.10	34.56	216	86	Peak

Item 2, 3 are the fundamental frequency at 5795 MHz.

Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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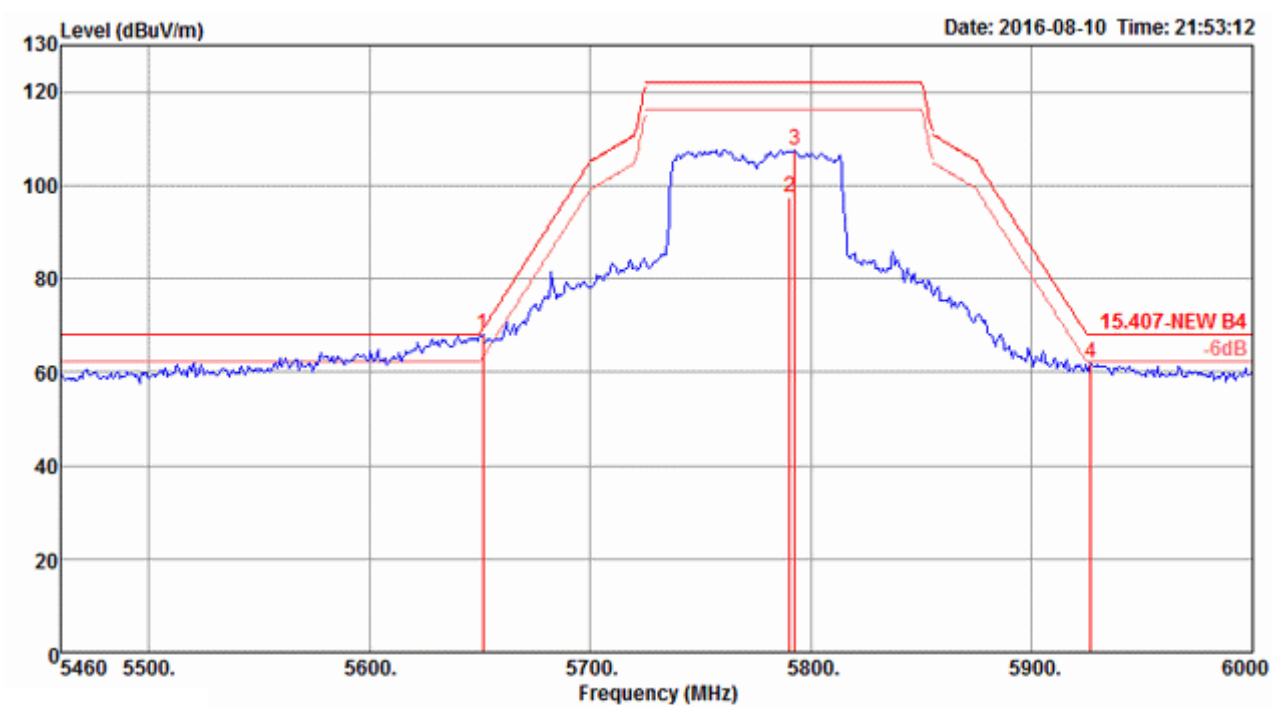
Channel 42



	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	5146.00	53.64	54.00	-0.36	46.90	7.90	33.31	34.47	100	52	Average	HORIZONTAL
2	5150.00	71.76	74.00	-2.24	65.02	7.90	33.31	34.47	100	52	Peak	HORIZONTAL
3	5181.00	109.26			102.43	7.95	33.35	34.47	100	52	Peak	HORIZONTAL
4	5226.00	97.87			90.96	7.96	33.42	34.47	100	52	Average	HORIZONTAL
5	5351.00	49.12	54.00	-4.88	42.11	7.89	33.59	34.47	100	52	Average	HORIZONTAL
6	5353.00	62.03	74.00	-11.97	55.02	7.89	33.59	34.47	100	52	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	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	5651.16	67.91	69.06	-1.15	60.24	7.92	34.25	34.50	105	298	Peak
2	5790.48	97.43			89.43	7.83	34.70	34.53	105	298	Average
3	5792.64	107.69			99.69	7.83	34.70	34.53	105	298	Peak
4	5926.56	61.75	68.20	-6.45	53.46	7.75	35.10	34.56	105	298	Peak

Item 2, 3 are the fundamental frequency at 5775 MHz.

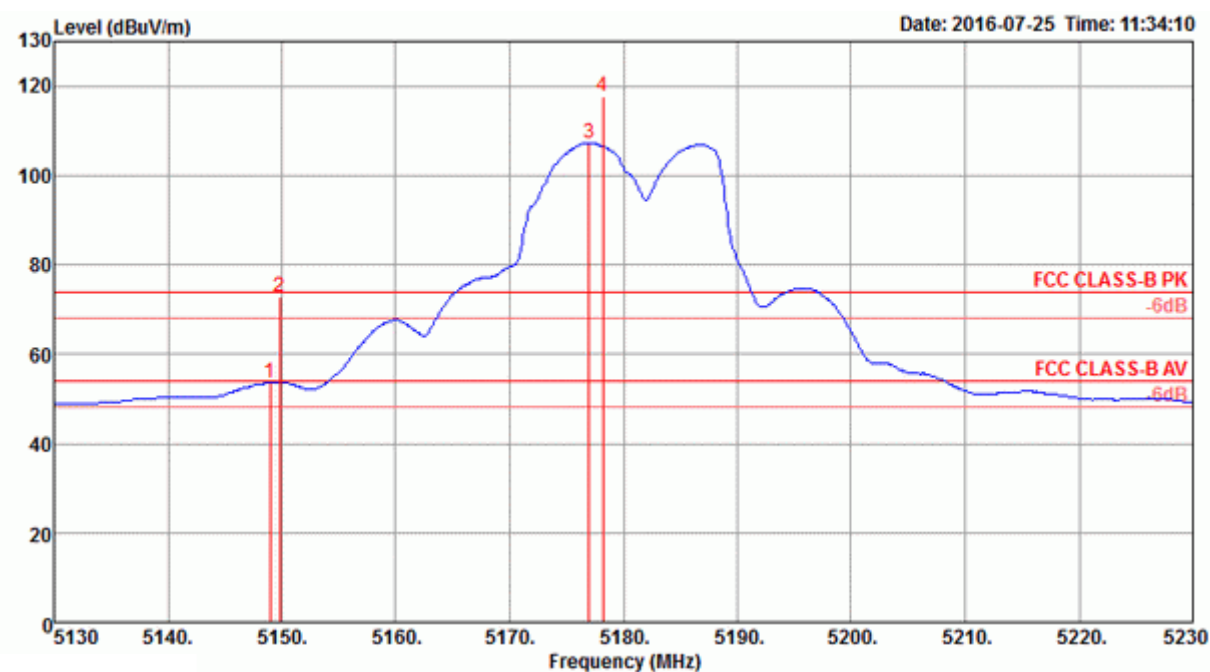
Directional Antenna

<For Non-Beamforming Mode>

Configurations

IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4

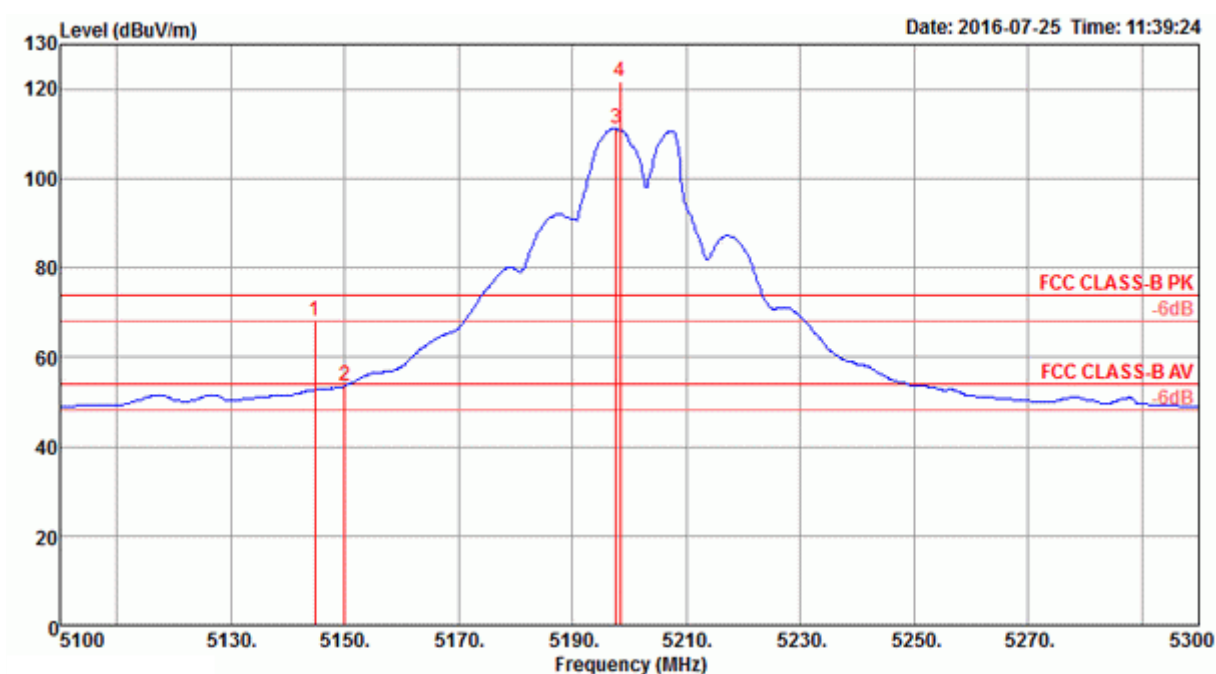
Channel 36



	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	5149.00	53.58	54.00	-0.42	46.84	7.90	33.31	34.47	155	7	Average	VERTICAL
2	5149.80	72.76	74.00	-1.24	66.02	7.90	33.31	34.47	155	7	Peak	VERTICAL
3	5177.00	107.17			100.34	7.95	33.35	34.47	155	7	Average	VERTICAL
4	5178.20	117.67			110.84	7.95	33.35	34.47	155	7	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

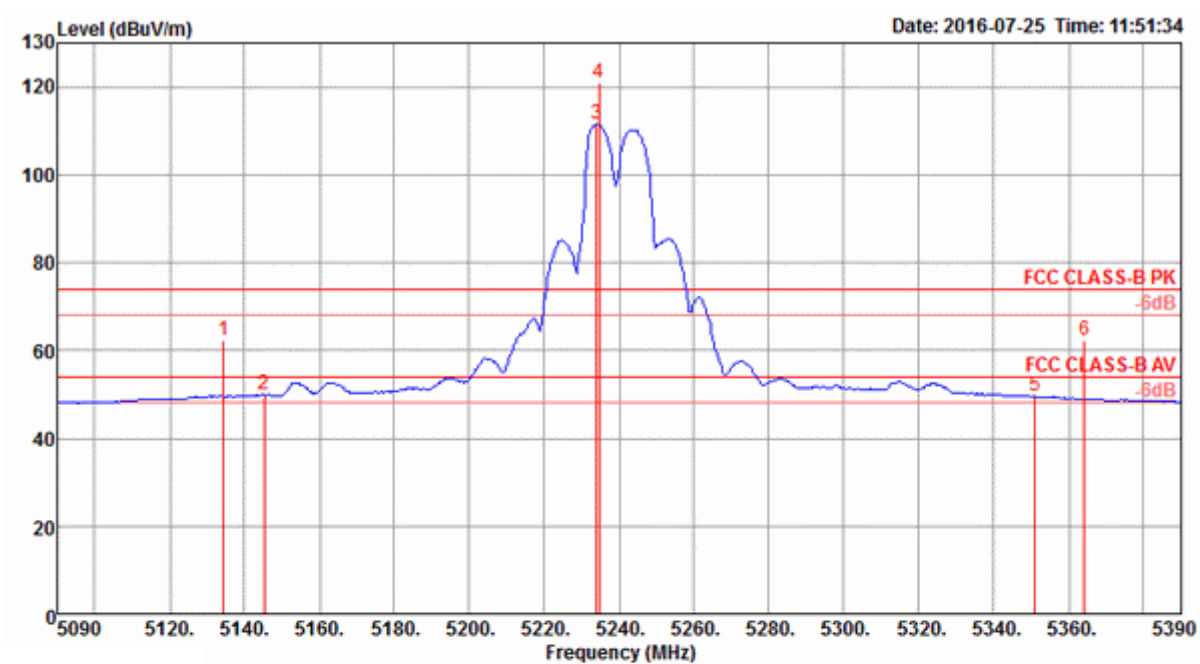
Channel 40



	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	5144.80	67.96	74.00	-6.04	61.22	7.90	33.31	34.47	160	6	Peak	VERTICAL
2	5150.00	53.56	54.00	-0.44	46.82	7.90	33.31	34.47	160	6	Average	VERTICAL
3	5197.60	111.09			104.20	7.98	33.38	34.47	160	6	Average	VERTICAL
4	5198.40	121.67			114.78	7.98	33.38	34.47	160	6	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48



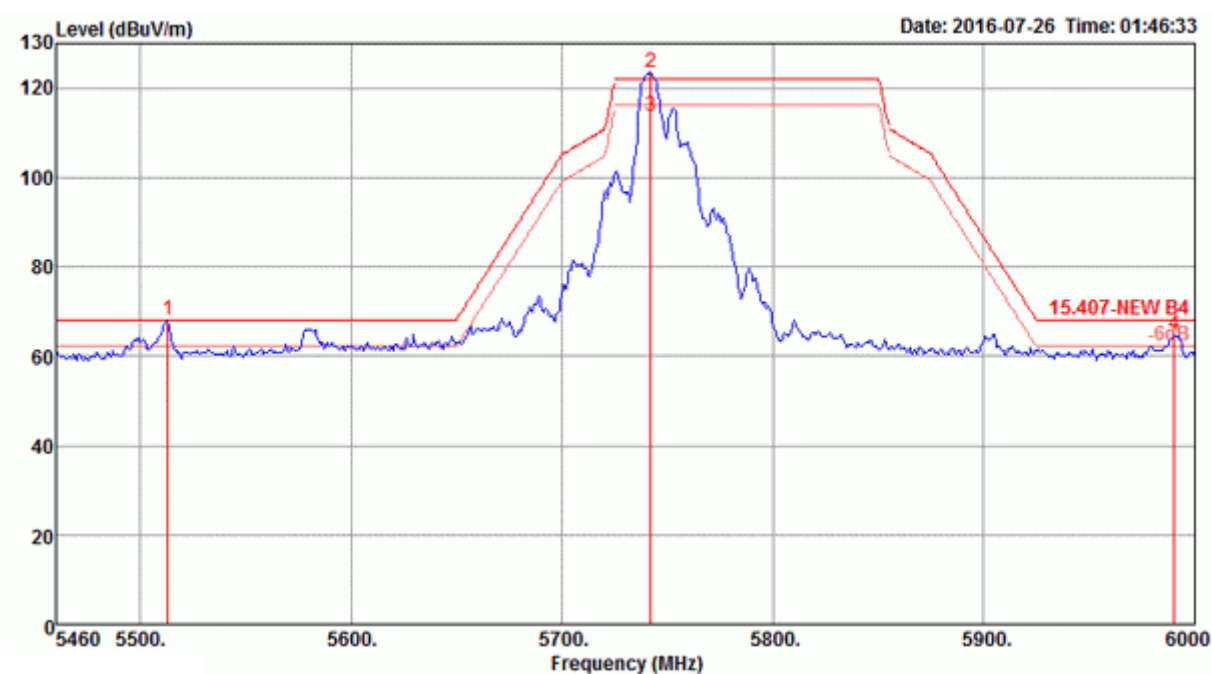
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5134.40	62.30	74.00	-11.70	55.60	7.88	33.29	34.47	227	6 Peak	HORIZONTAL	
2	5145.20	50.06	54.00	-3.94	43.32	7.90	33.31	34.47	227	6 Average	HORIZONTAL	
3	5234.00	111.46			104.54	7.95	33.44	34.47	227	6 Average	HORIZONTAL	
4	5234.60	120.88			113.96	7.95	33.44	34.47	227	6 Peak	HORIZONTAL	
5	5351.00	49.44	54.00	-4.56	42.43	7.89	33.59	34.47	227	6 Average	HORIZONTAL	
6	5364.20	62.23	74.00	-11.77	55.21	7.88	33.61	34.47	227	6 Peak	HORIZONTAL	

Item 3, 4 are the fundamental frequency at 5240 MHz.

Configurations

IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4

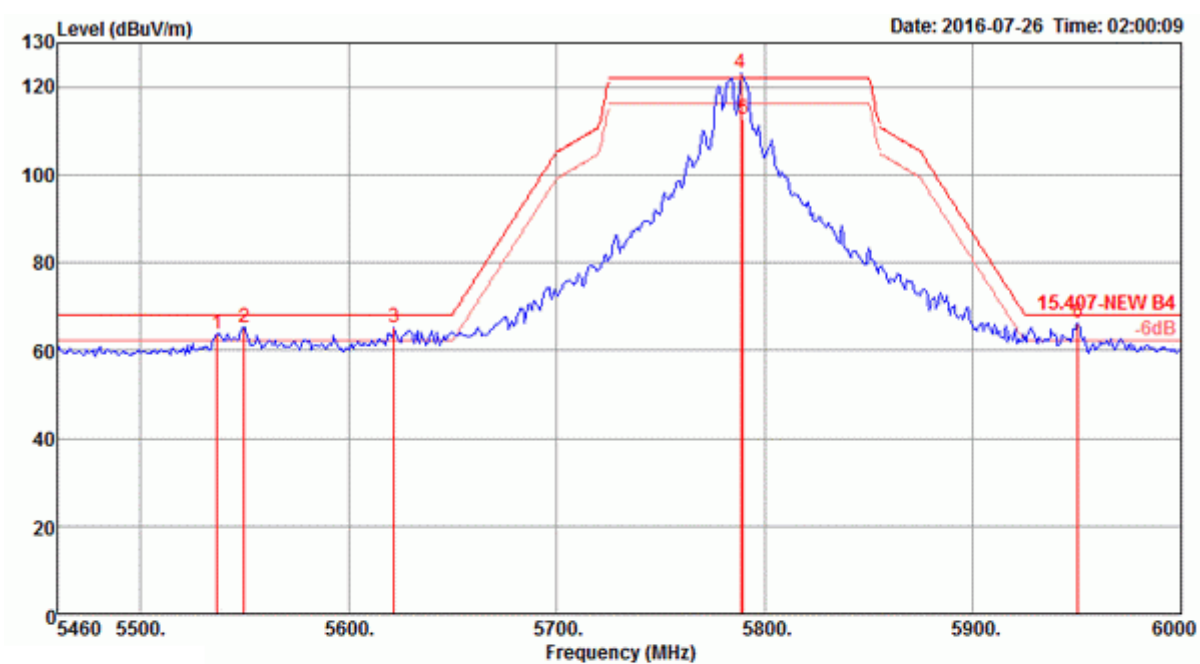
Channel 149



	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	5512.92	67.99	68.20	-0.21	60.69	7.92	33.85	34.47	238	13 Peak	HORIZONTAL
2	5741.88	123.44			115.55	7.86	34.55	34.52	238	13 Peak	HORIZONTAL
3	5741.88	113.73			105.84	7.86	34.55	34.52	238	13 Average	HORIZONTAL
4	5990.28	64.68	68.20	-3.52	56.28	7.72	35.25	34.57	238	13 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

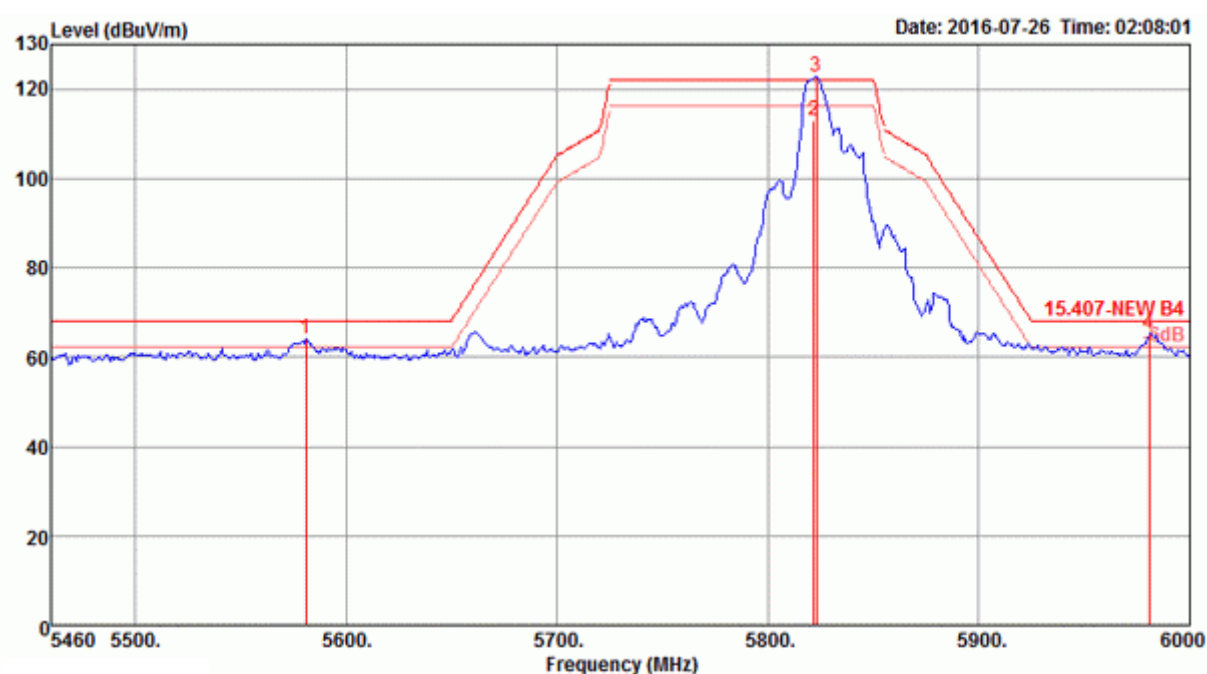
Channel 157



	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	5536.68	63.84	68.20	-4.36	56.50	7.92	33.90	34.48	144	350	Peak	VERTICAL
2	5549.64	65.28	68.20	-2.92	57.88	7.93	33.95	34.48	144	350	Peak	VERTICAL
3	5622.00	65.07	68.20	-3.13	57.48	7.94	34.15	34.50	144	350	Peak	VERTICAL
4	5788.32	123.20			115.24	7.84	34.65	34.53	144	350	Peak	VERTICAL
5	5789.40	112.44			104.44	7.83	34.70	34.53	144	350	Average	VERTICAL
6	5950.32	66.13	68.20	-2.07	57.80	7.74	35.15	34.56	144	350	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5785 MHz.

Channel 165

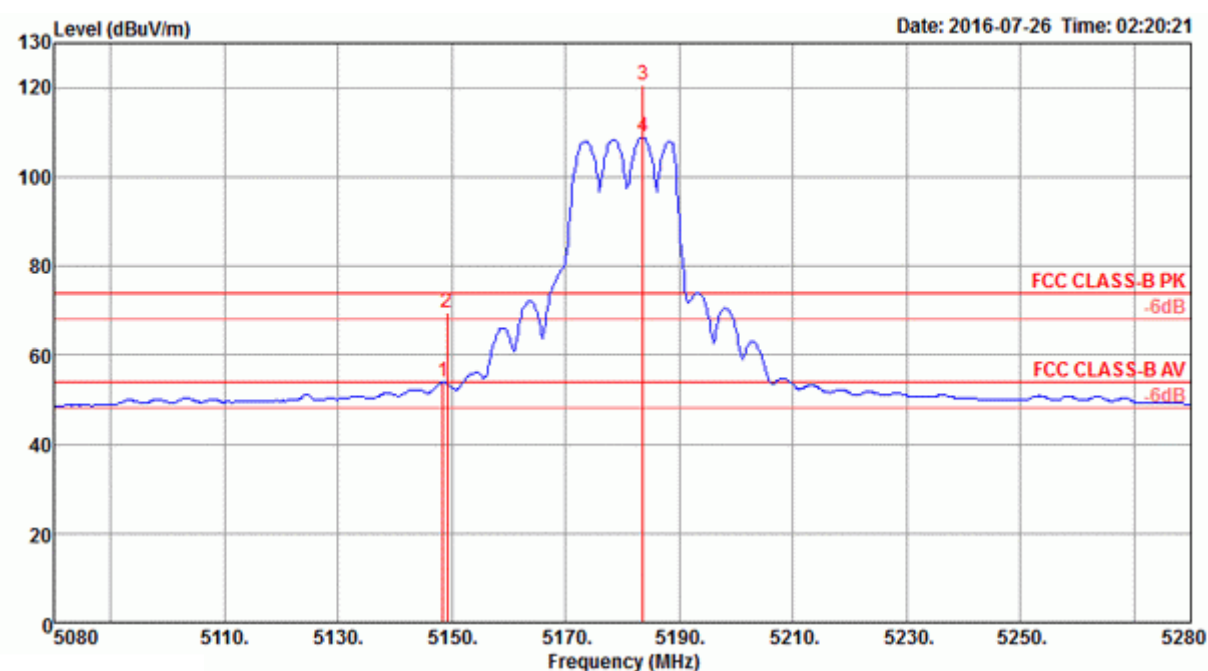


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5580.96	64.02	68.20	-4.18	56.52	7.94	34.05	34.49	243	12	Peak	HORIZONTAL
2	5821.80	112.90			104.87	7.82	34.75	34.54	243	12	Average	HORIZONTAL
3	5822.88	122.89			114.82	7.81	34.80	34.54	243	12	Peak	HORIZONTAL
4	5980.56	65.28	68.20	-2.92	56.88	7.72	35.25	34.57	243	12	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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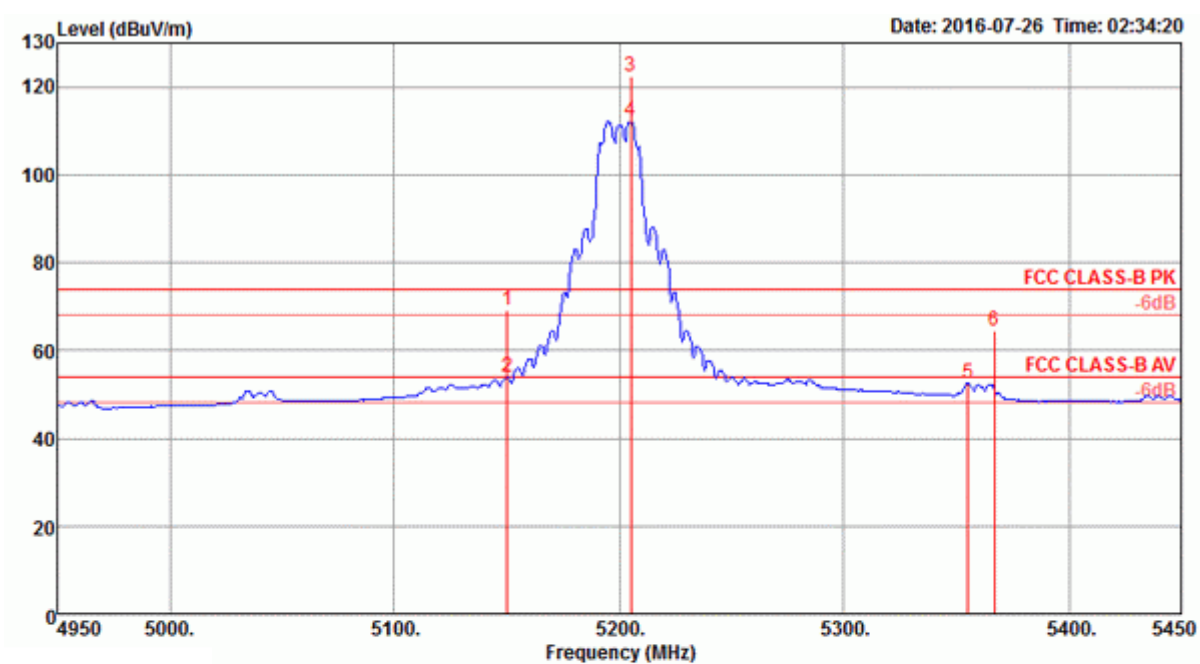
Channel 36



	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	5148.40	53.89	54.00	-0.11	47.15	7.90	33.31	34.47	223	356	Average
2	5149.20	69.43	74.00	-4.57	62.69	7.90	33.31	34.47	223	356	Peak
3	5183.60	120.63			113.80	7.95	33.35	34.47	223	356	Peak
4	5183.60	108.83			102.00	7.95	33.35	34.47	223	356	Average

Item 3, 4 are the fundamntal frequency at 5180 MHz.

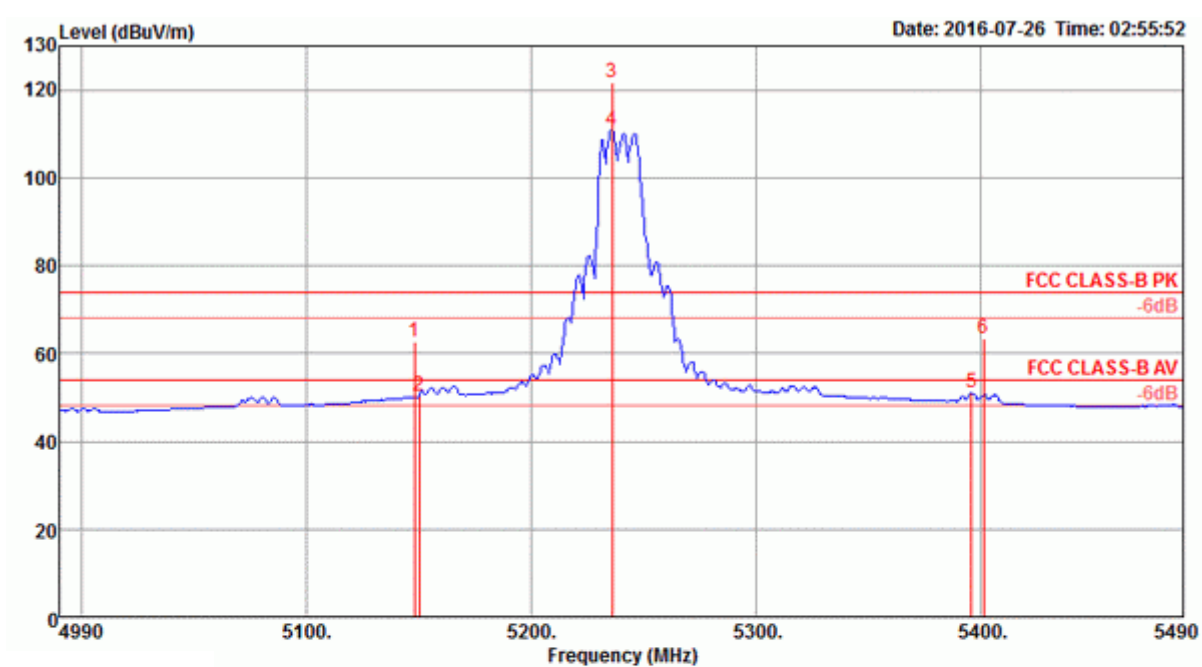
Channel 40



	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	5150.00	69.26	74.00	-4.74	62.52	7.90	33.31	34.47	224	6	Peak	HORIZONTAL
2	5150.00	53.87	54.00	-0.13	47.13	7.90	33.31	34.47	224	6	Average	HORIZONTAL
3	5205.00	122.56			115.66	7.97	33.40	34.47	224	6	Peak	HORIZONTAL
4	5205.00	112.35			105.45	7.97	33.40	34.47	224	6	Average	HORIZONTAL
5	5355.00	52.54	54.00	-1.46	45.52	7.88	33.61	34.47	224	6	Average	HORIZONTAL
6	5367.00	64.48	74.00	-9.52	57.46	7.88	33.61	34.47	224	6	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

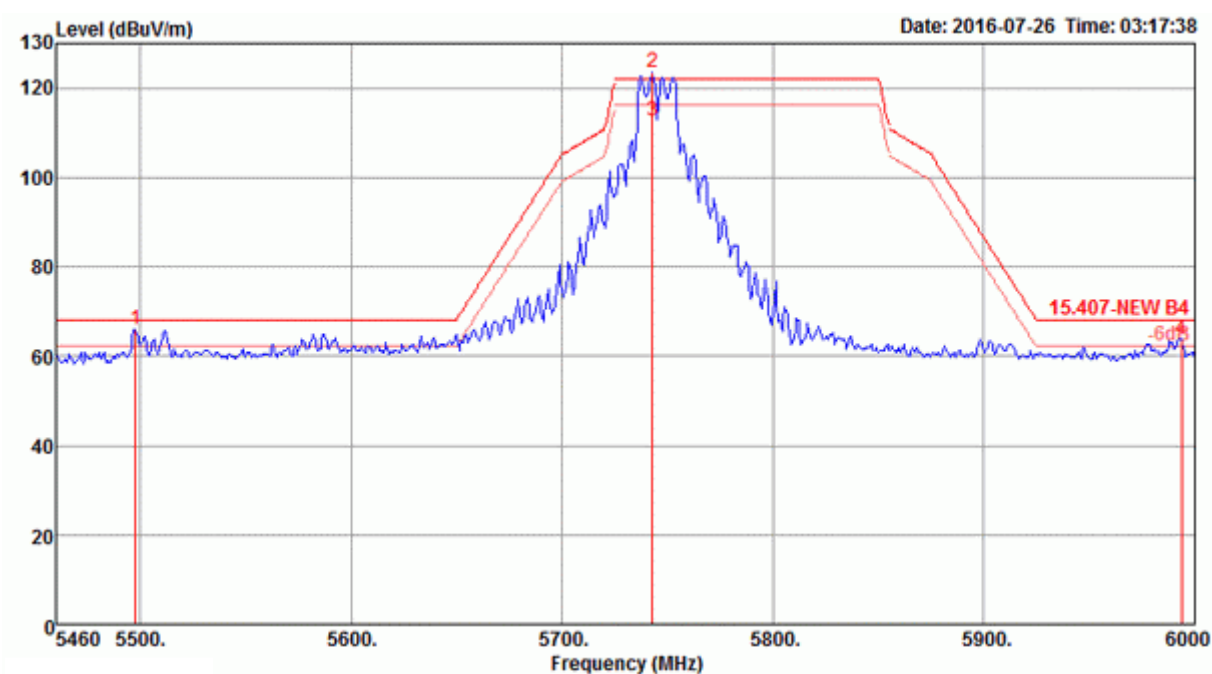


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.00	62.48	74.00	-11.52	55.74	7.90	33.31	34.47	204	9	Peak	HORIZONTAL
2	5150.00	50.35	54.00	-3.65	43.61	7.90	33.31	34.47	204	9	Average	HORIZONTAL
3	5236.00	121.56			114.64	7.95	33.44	34.47	204	9	Peak	HORIZONTAL
4	5236.00	110.88			103.96	7.95	33.44	34.47	204	9	Average	HORIZONTAL
5	5396.00	50.91	54.00	-3.09	43.87	7.86	33.65	34.47	204	9	Average	HORIZONTAL
6	5401.00	63.34	74.00	-10.66	56.27	7.87	33.67	34.47	204	9	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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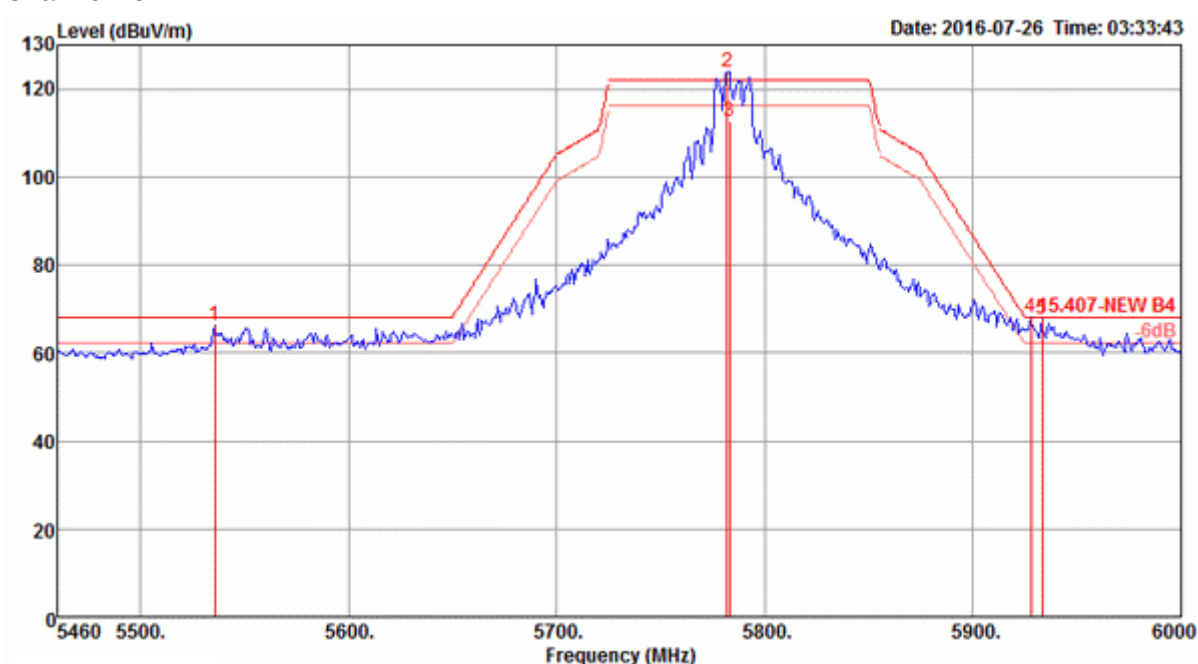
Channel 149



	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	5497.80	65.97	68.20	-2.23	58.73	7.91	33.80	34.47	236	18 Peak	HORIZONTAL
2	5742.96	123.38			115.49	7.86	34.55	34.52	236	18 Peak	HORIZONTAL
3	5742.96	112.70			104.81	7.86	34.55	34.52	236	18 Average	HORIZONTAL
4	5993.52	63.66	68.20	-4.54	55.22	7.71	35.30	34.57	236	18 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

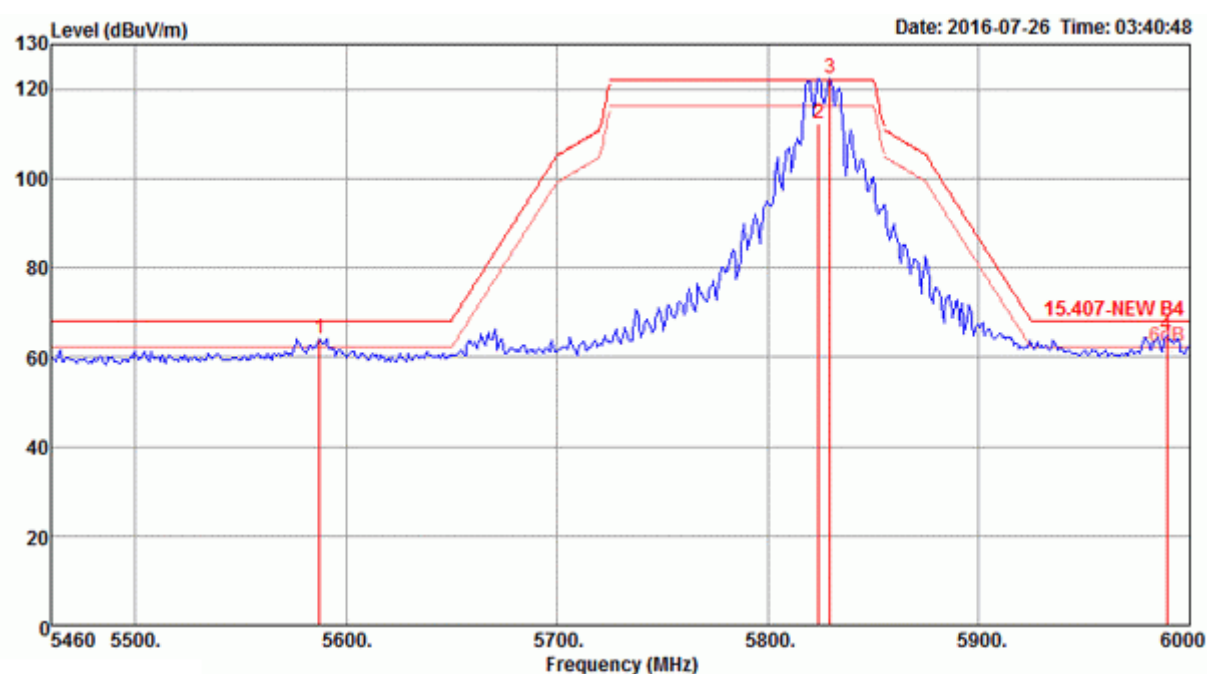
Channel 157



	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	5535.60	66.41	68.20	-1.79	59.07	7.92	33.90	34.48	240	16 Peak	HORIZONTAL
2	5781.84	123.74			115.78	7.84	34.65	34.53	240	16 Peak	HORIZONTAL
3	5782.92	112.46			104.50	7.84	34.65	34.53	240	16 Average	HORIZONTAL
4	5927.64	68.08	68.20	-0.12	59.79	7.75	35.10	34.56	240	16 Peak	HORIZONTAL
5	5933.04	67.68	68.20	-0.52	59.39	7.75	35.10	34.56	240	16 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

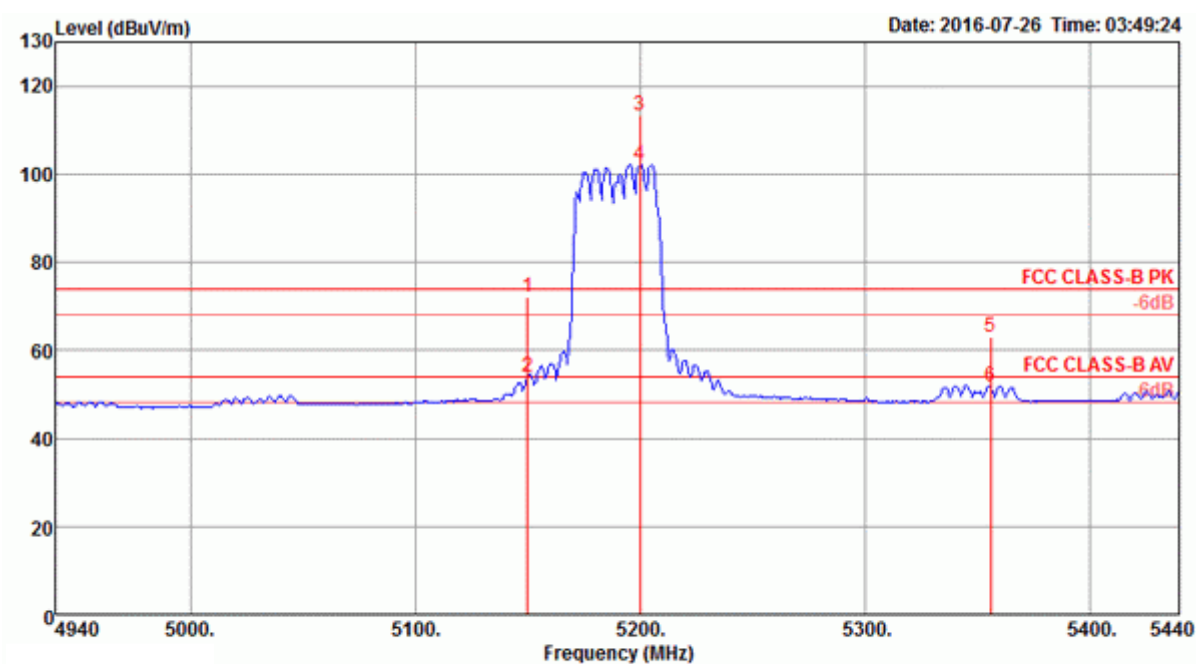


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5587.44	64.25	68.20	-3.95	56.75	7.94	34.05	34.49	234	1	Peak	HORIZONTAL
2	5823.96	112.14			104.07	7.81	34.80	34.54	234	1	Average	HORIZONTAL
3	5829.36	122.42			114.35	7.81	34.80	34.54	234	1	Peak	HORIZONTAL
4	5989.20	64.89	68.20	-3.31	56.49	7.72	35.25	34.57	234	1	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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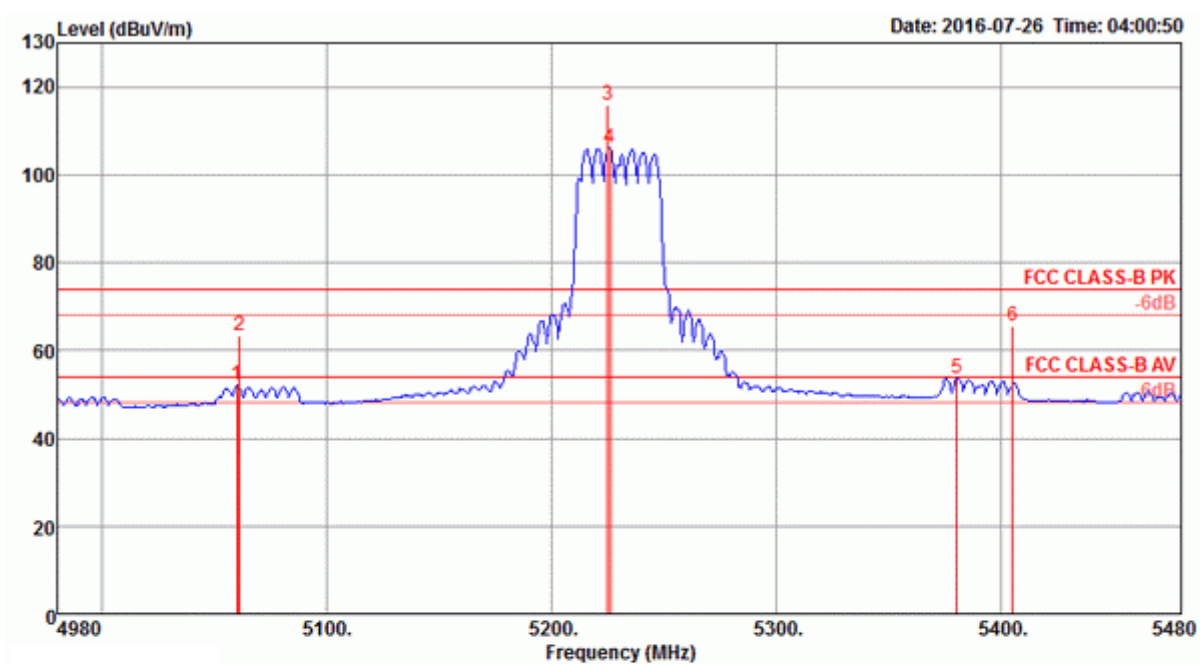
Channel 38



	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	5150.00	72.06	74.00	-1.94	65.32	7.90	33.31	34.47	232	8 Peak	HORIZONTAL
2	5150.00	53.88	54.00	-0.12	47.14	7.90	33.31	34.47	232	8 Average	HORIZONTAL
3	5200.00	113.49			106.60	7.98	33.38	34.47	232	8 Peak	HORIZONTAL
4	5200.00	102.19			95.30	7.98	33.38	34.47	232	8 Average	HORIZONTAL
5	5356.00	63.05	74.00	-10.95	56.03	7.88	33.61	34.47	232	8 Peak	HORIZONTAL
6	5356.00	51.86	54.00	-2.14	44.84	7.88	33.61	34.47	232	8 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46



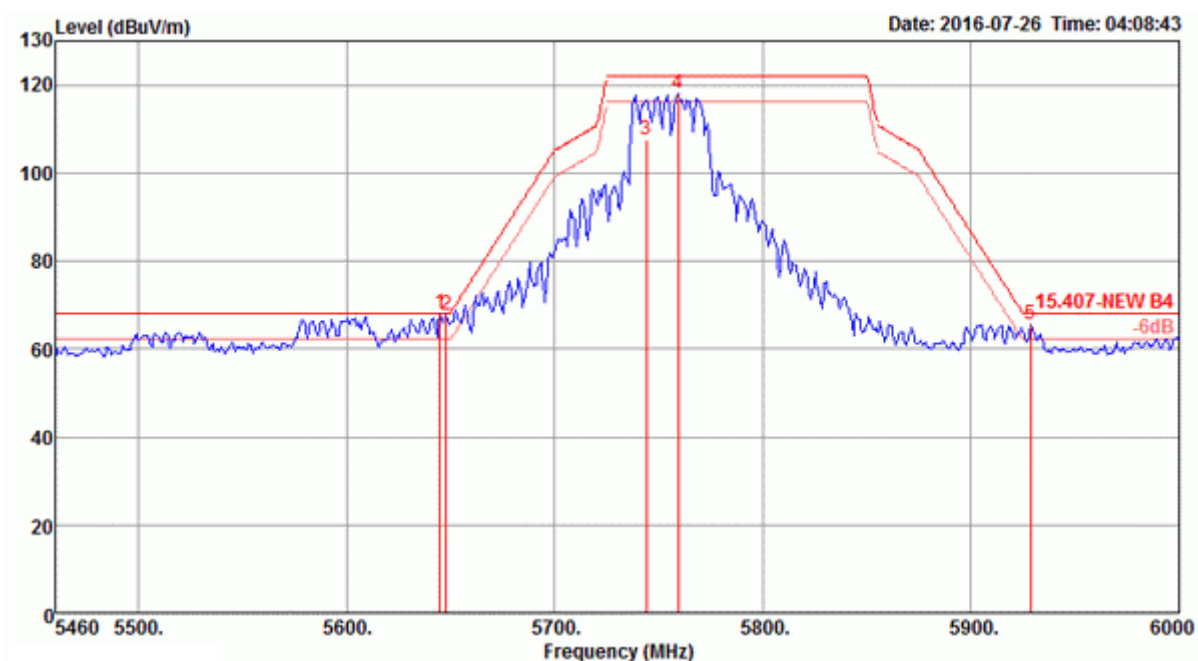
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5060.00	52.00	54.00	-2.00	45.54	7.75	33.18	34.47	222	8	Average	HORIZONTAL
2	5061.00	63.39	74.00	-10.61	56.93	7.75	33.18	34.47	222	8	Peak	HORIZONTAL
3	5225.00	115.71			108.80	7.96	33.42	34.47	222	8	Peak	HORIZONTAL
4	5226.00	106.01			99.10	7.96	33.42	34.47	222	8	Average	HORIZONTAL
5	5380.00	53.42	54.00	-0.58	46.39	7.87	33.63	34.47	222	8	Average	HORIZONTAL
6	5405.00	65.37	74.00	-8.63	58.30	7.87	33.67	34.47	222	8	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Configurations

IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4

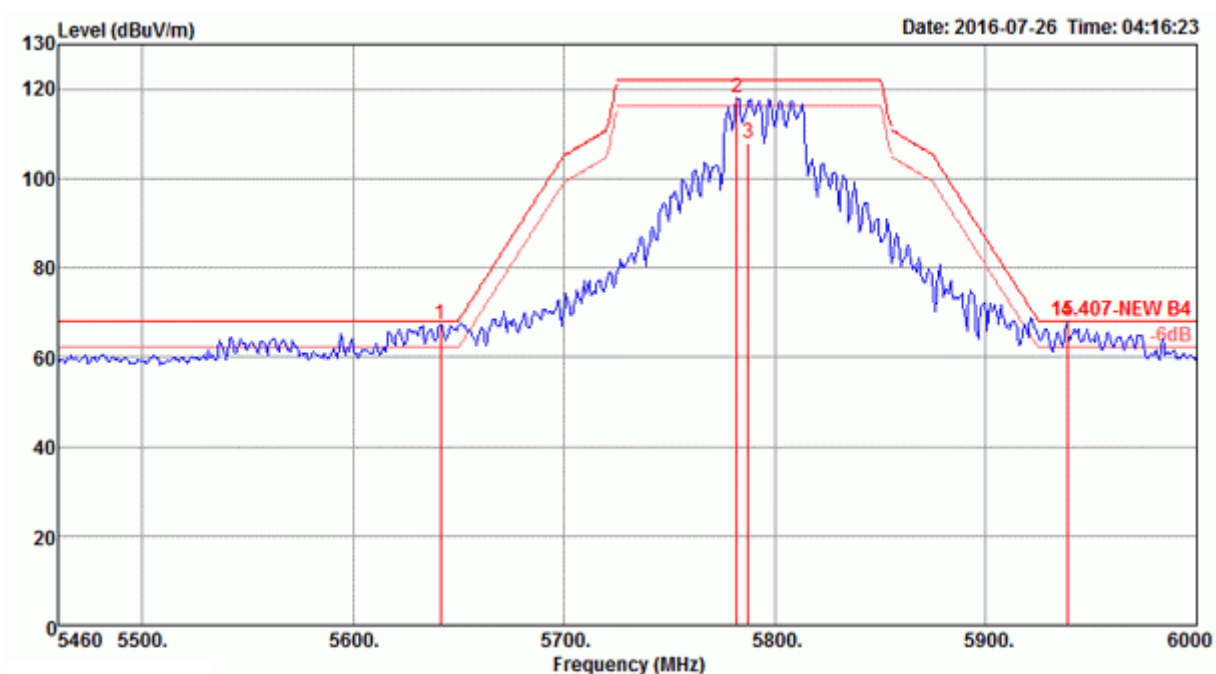
Channel 151



	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	5644.68	68.08	68.20	-0.12	60.41	7.92	34.25	34.50	220	360	Peak
2	5647.92	67.88	68.20	-0.32	60.21	7.92	34.25	34.50	220	360	Peak
3	5744.04	107.40			99.51	7.86	34.55	34.52	220	360	Average
4	5759.16	117.94			110.01	7.85	34.60	34.52	220	360	Peak
5	5928.72	65.39	68.20	-2.81	57.10	7.75	35.10	34.56	220	360	Peak

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159



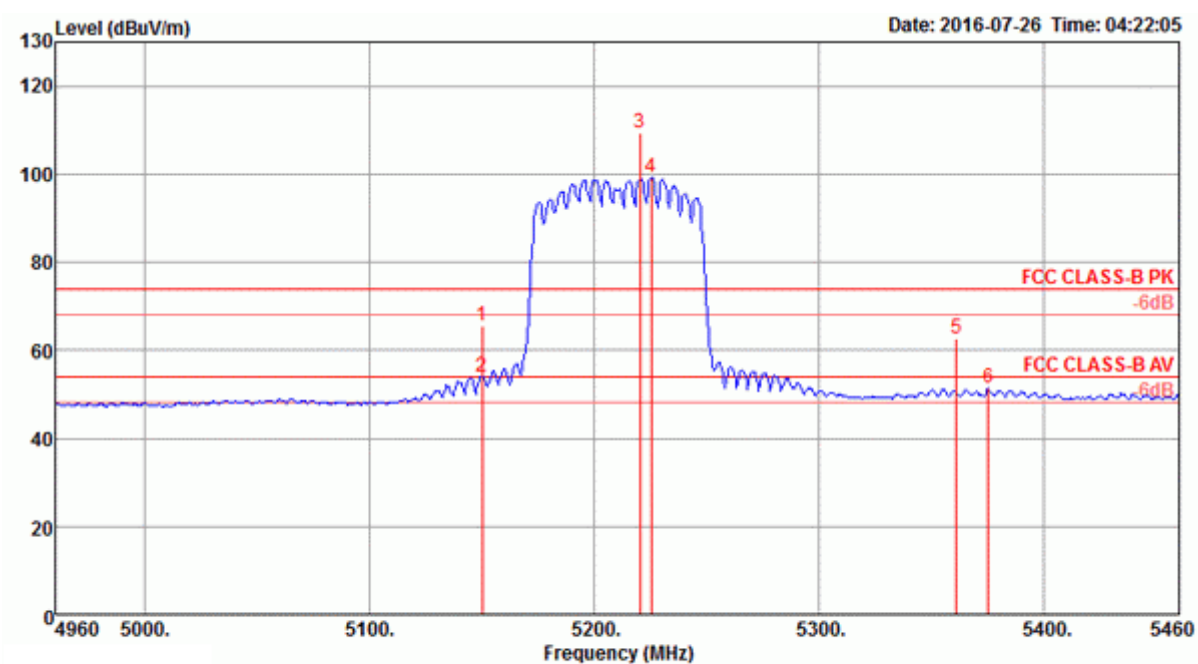
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5641.44	67.40	68.20	-0.80	59.73	7.92	34.25	34.50	230	16	Peak	HORIZONTAL
2	5781.84	117.99			110.03	7.84	34.65	34.53	230	16	Peak	HORIZONTAL
3	5787.24	107.82			99.86	7.84	34.65	34.53	230	16	Average	HORIZONTAL
4	5938.44	67.96	68.20	-0.24	59.67	7.75	35.10	34.56	230	16	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Configurations

IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4

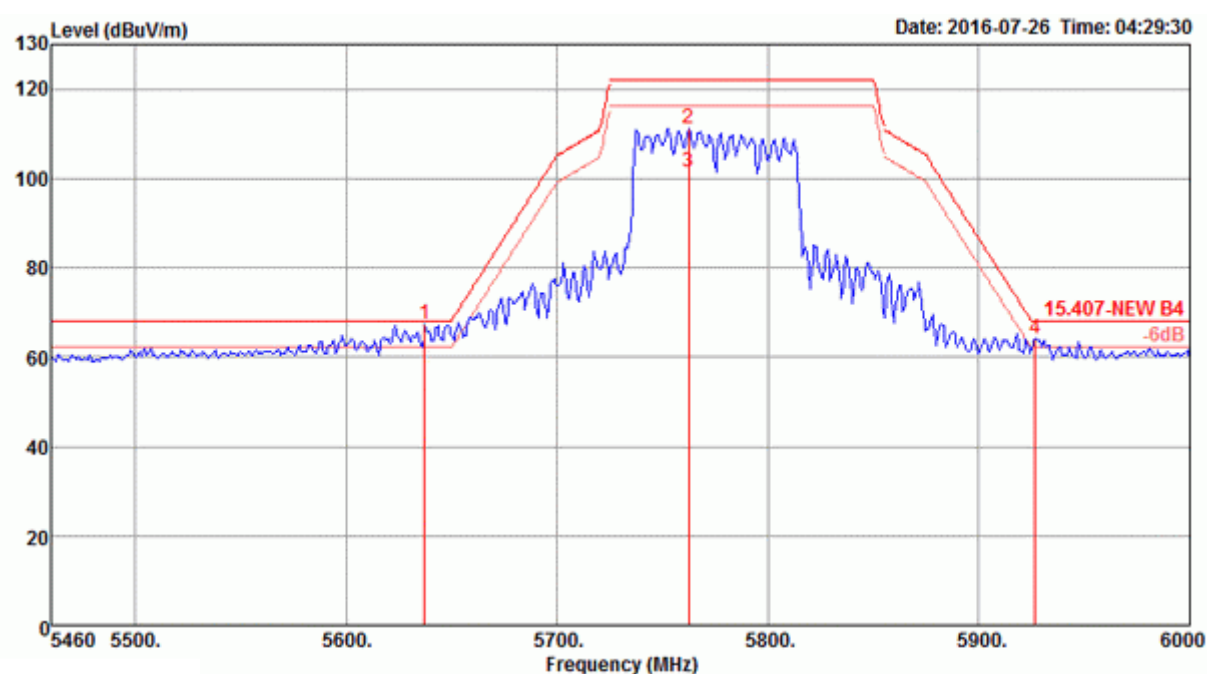
Channel 42



	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	5150.00	65.55	74.00	-8.45	58.81	7.90	33.31	34.47	225	6 Peak	HORIZONTAL
2	5150.00	53.93	54.00	-0.07	47.19	7.90	33.31	34.47	225	6 Average	HORIZONTAL
3	5220.00	109.34			102.43	7.96	33.42	34.47	225	6 Peak	HORIZONTAL
4	5225.00	99.07			92.16	7.96	33.42	34.47	225	6 Average	HORIZONTAL
5	5361.00	62.74	74.00	-11.26	55.72	7.88	33.61	34.47	225	6 Peak	HORIZONTAL
6	5375.00	51.25	54.00	-2.75	44.22	7.87	33.63	34.47	225	6 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	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	5637.12	67.26	68.20	-0.94	59.63	7.93	34.20	34.50	222	19	Peak	HORIZONTAL
2	5762.40	111.20			103.27	7.85	34.60	34.52	222	19	Peak	HORIZONTAL
3	5762.40	101.55			93.62	7.85	34.60	34.52	222	19	Average	HORIZONTAL
4	5926.56	64.19	68.20	-4.01	55.90	7.75	35.10	34.56	222	19	Peak	HORIZONTAL

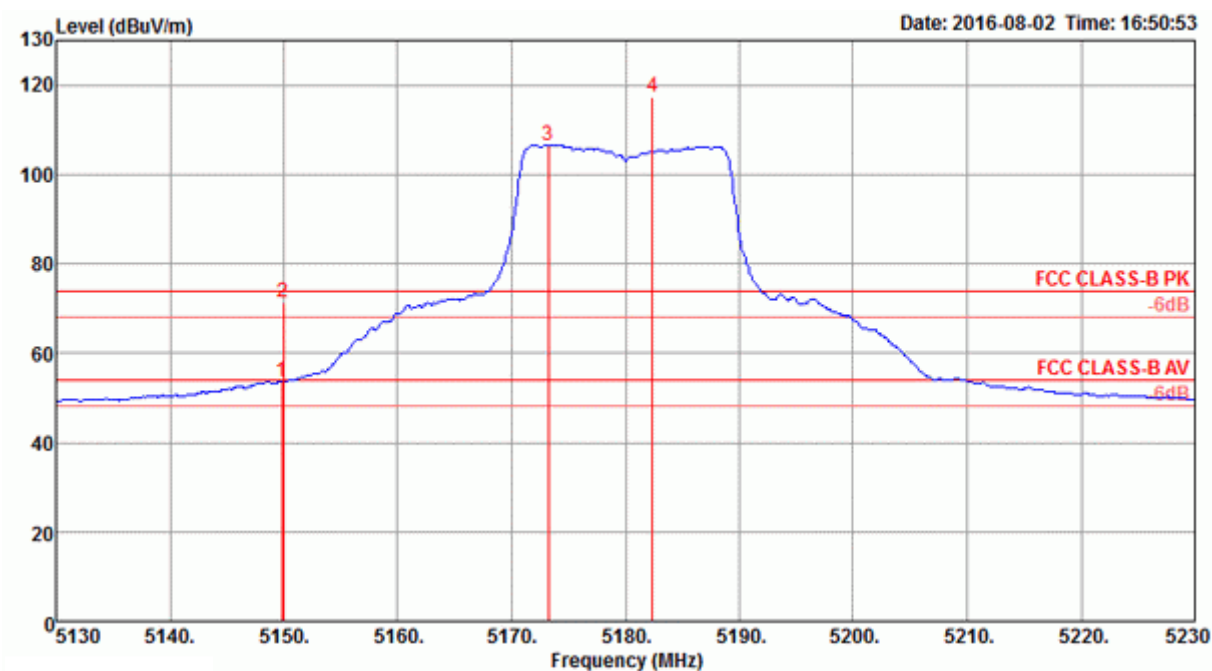
Item 2, 3 are the fundamental frequency at 5775 MHz.

<For Beamforming Mode>

Configurations

IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4

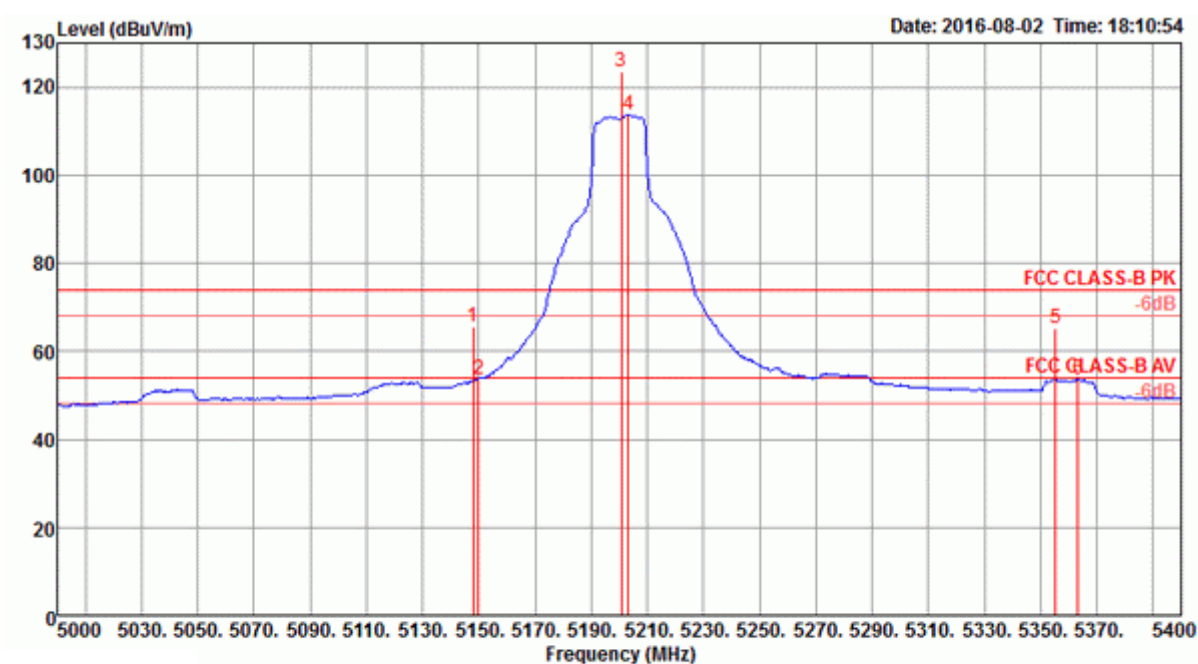
Channel 36



	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	5149.80	53.48	54.00	-0.52	46.74	7.90	33.31	34.47	223	360	Average
2	5150.00	71.41	74.00	-2.59	64.67	7.90	33.31	34.47	223	360	Peak
3	5173.20	106.59			99.76	7.95	33.35	34.47	223	360	Average
4	5182.40	117.44			110.61	7.95	33.35	34.47	223	360	Peak

Item 3, 4 are the fundamental frequency at 5180 MHz.

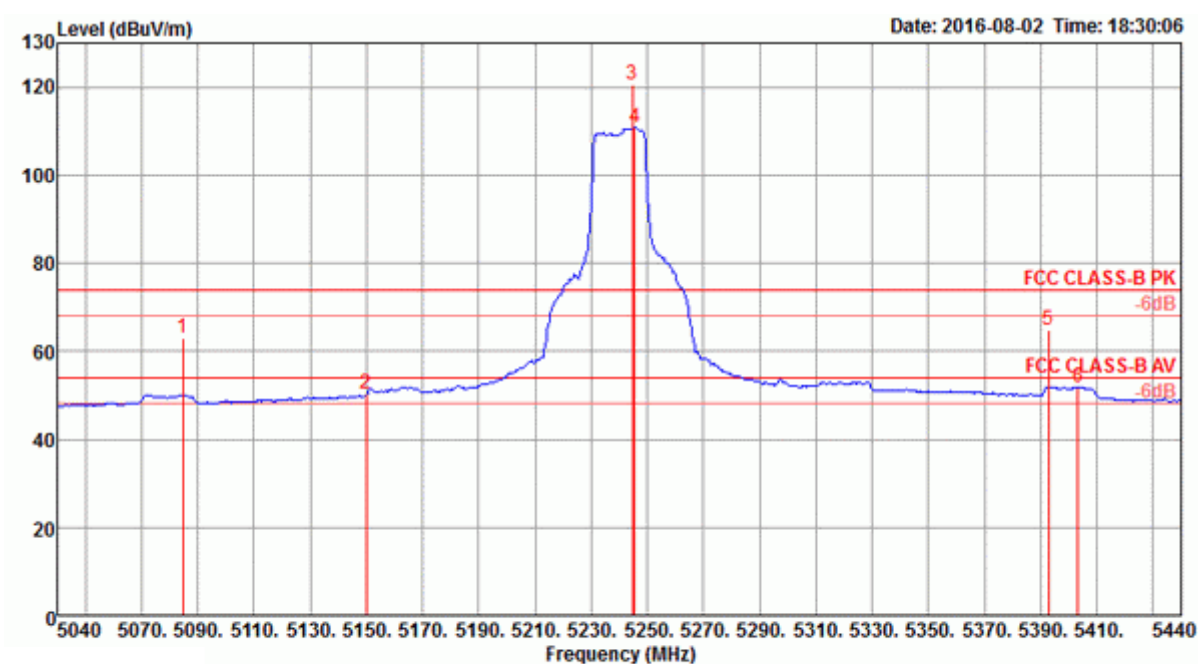
Channel 40



	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	5148.00	65.65	74.00	-8.35	58.91	7.90	33.31	34.47	234	1 Peak	HORIZONTAL
2	5150.00	53.72	54.00	-0.28	46.98	7.90	33.31	34.47	234	1 Average	HORIZONTAL
3	5200.80	123.52			116.63	7.98	33.38	34.47	234	1 Peak	HORIZONTAL
4	5203.20	113.83			106.93	7.97	33.40	34.47	234	1 Average	HORIZONTAL
5	5355.20	65.16	74.00	-8.84	58.14	7.88	33.61	34.47	234	1 Peak	HORIZONTAL
6	5363.20	53.66	54.00	-0.34	46.64	7.88	33.61	34.47	234	1 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

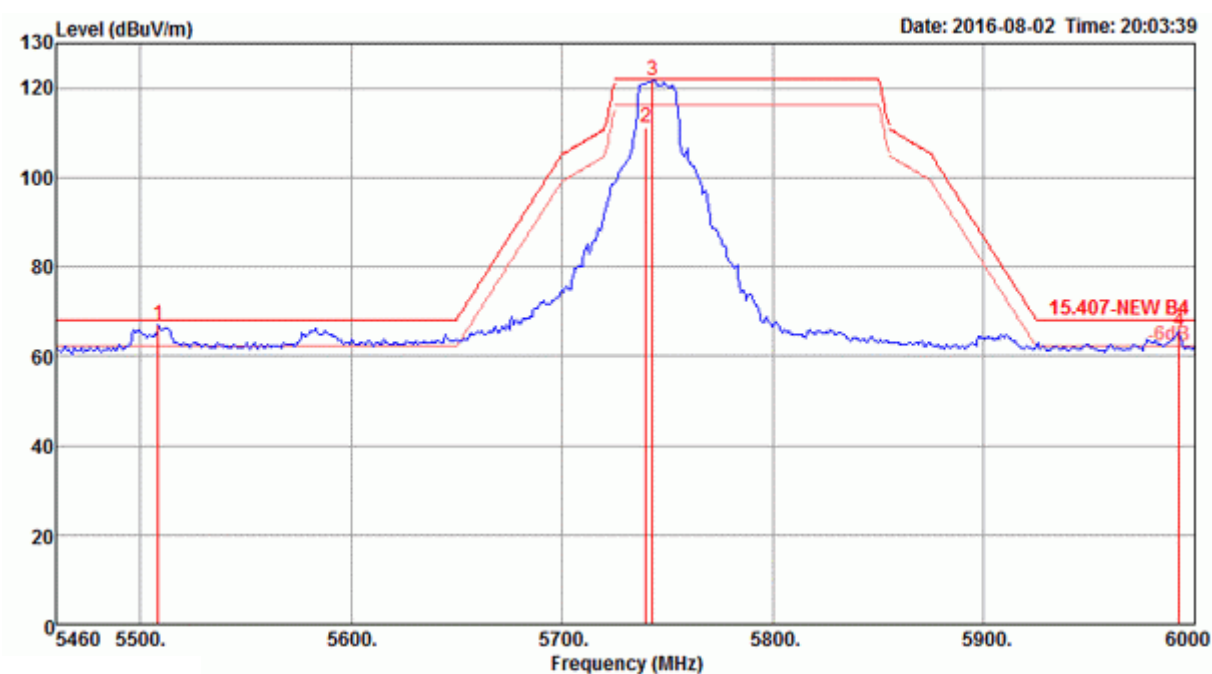


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5084.80	63.01	74.00	-10.99	56.45	7.80	33.23	34.47	230	0 Peak	HORIZONTAL
2	5150.00	50.47	54.00	-3.53	43.73	7.90	33.31	34.47	230	0 Average	HORIZONTAL
3	5244.80	120.49			113.57	7.95	33.44	34.47	230	0 Peak	HORIZONTAL
4	5245.60	110.93			104.01	7.95	33.44	34.47	230	0 Average	HORIZONTAL
5	5392.80	64.67	74.00	-9.33	57.63	7.86	33.65	34.47	230	0 Peak	HORIZONTAL
6	5403.20	51.84	54.00	-2.16	44.77	7.87	33.67	34.47	230	0 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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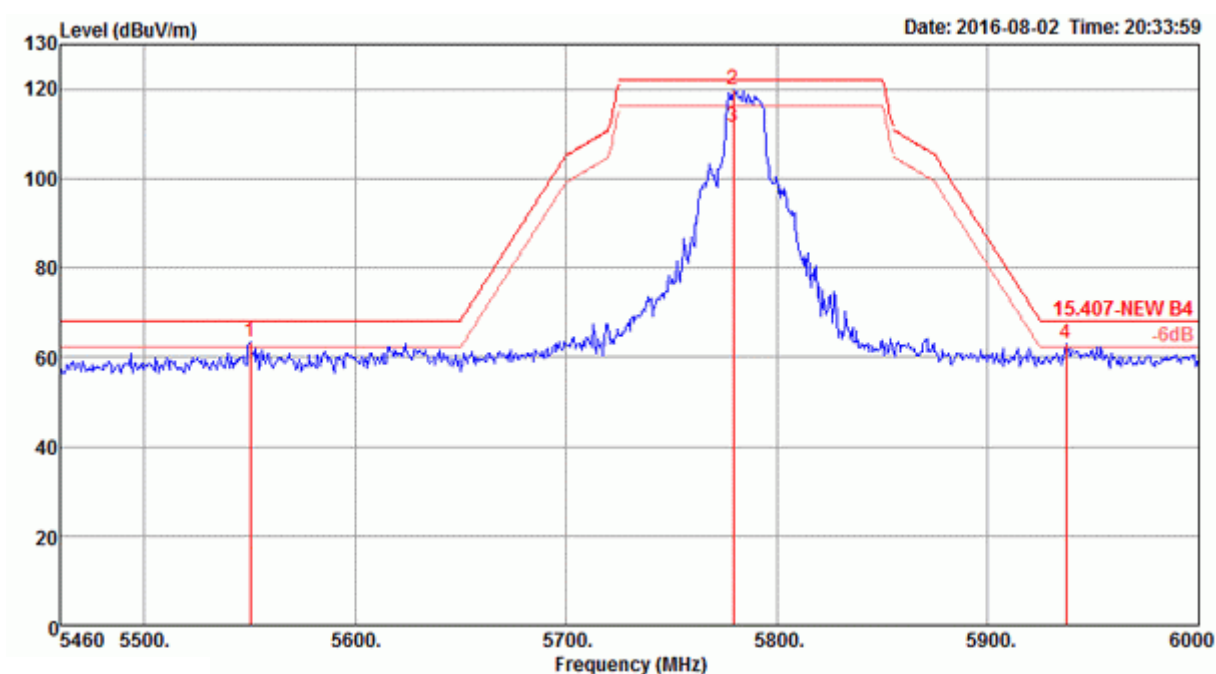
Channel 149



	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	5508.60	67.12	68.20	-1.08	59.88	7.91	33.80	34.47	240	1 Peak	HORIZONTAL
2	5739.72	111.26			103.37	7.86	34.55	34.52	240	1 Average	HORIZONTAL
3	5742.96	121.64			113.75	7.86	34.55	34.52	240	1 Peak	HORIZONTAL
4	5992.44	65.51	68.20	-2.69	57.11	7.72	35.25	34.57	240	1 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

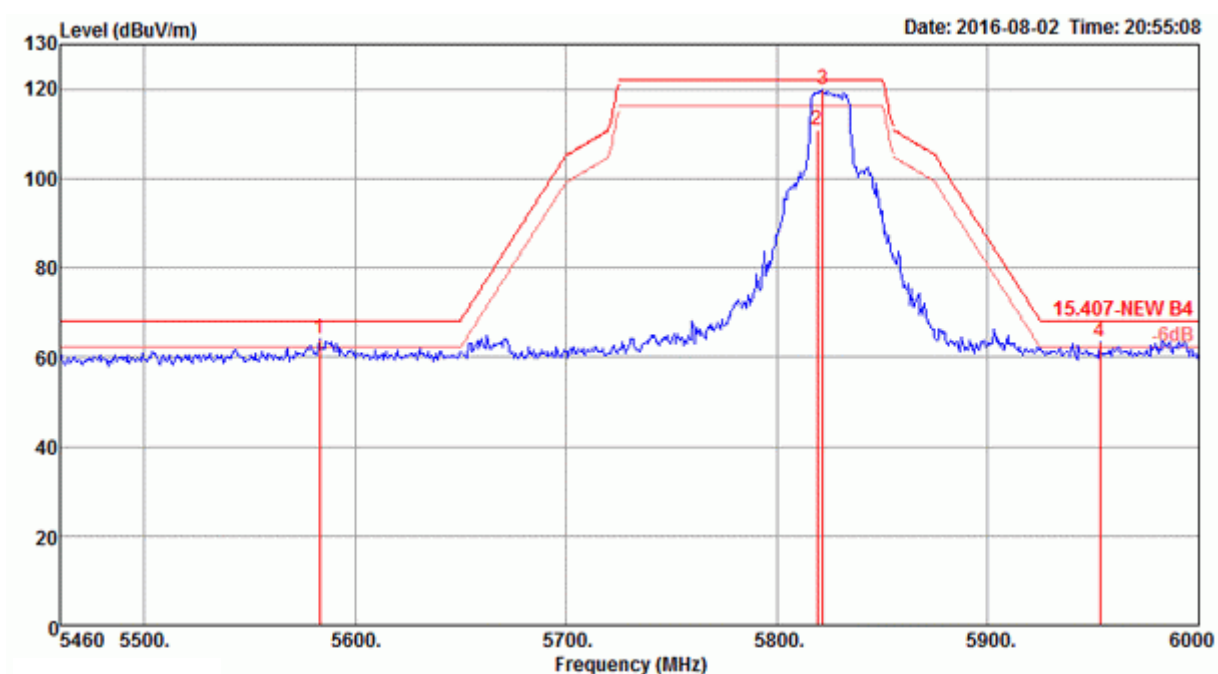
Channel 157



	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	5550.18	63.53	68.20	-4.67	56.13	7.93	33.95	34.48	239	3	Peak	HORIZONTAL
2	5779.14	119.86			111.90	7.84	34.65	34.53	239	3	Peak	HORIZONTAL
3	5779.23	111.39			103.43	7.84	34.65	34.53	239	3	Average	HORIZONTAL
4	5936.82	62.83	68.20	-5.37	54.54	7.75	35.10	34.56	239	3	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

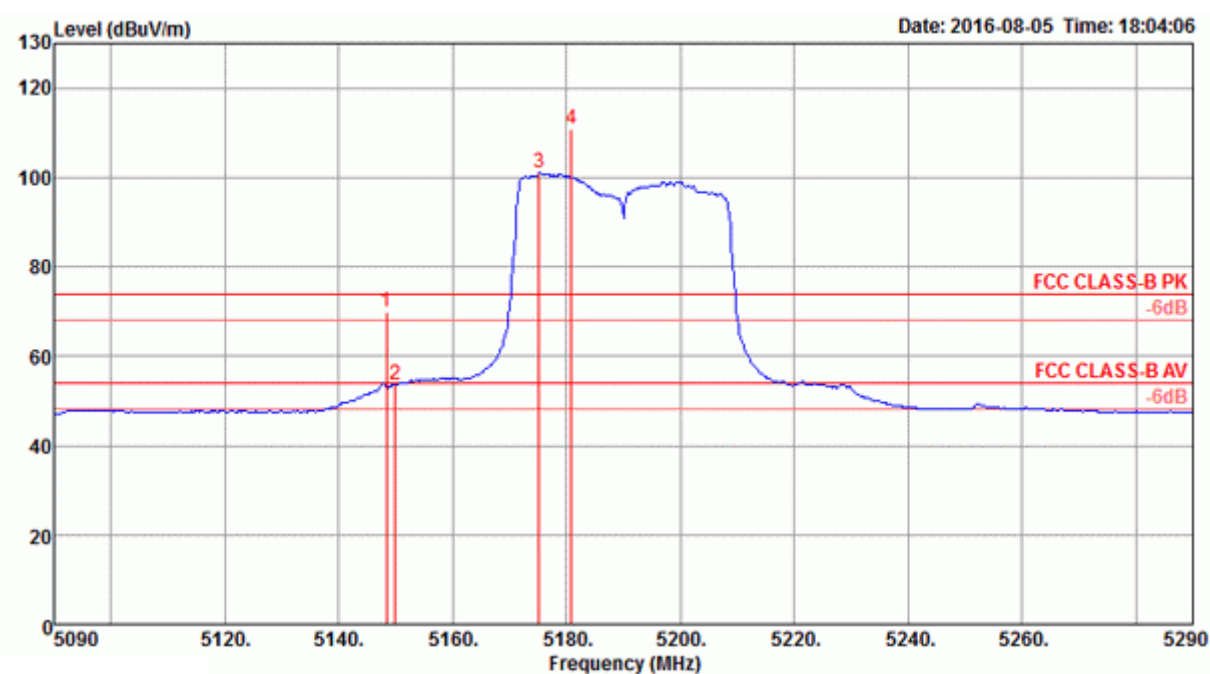


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5583.12	64.05	68.20	-4.15	56.55	7.94	34.05	34.49	253	6	Peak	HORIZONTAL
2	5819.09	110.77			102.73	7.82	34.75	34.53	253	6	Average	HORIZONTAL
3	5821.80	119.80			111.77	7.82	34.75	34.54	253	6	Peak	HORIZONTAL
4	5953.02	63.32	68.20	-4.88	54.99	7.74	35.15	34.56	253	6	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
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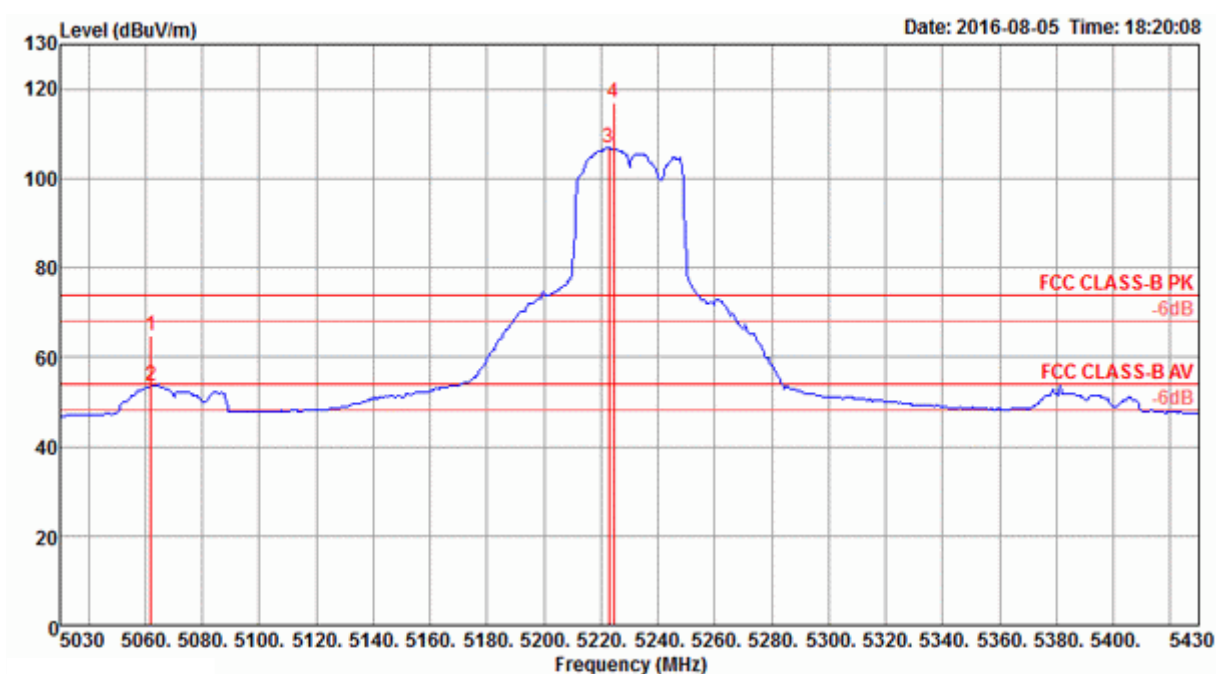
Channel 38



	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	5148.40	69.78	74.00	-4.22	63.04	7.90	33.31	34.47	178	6 Peak	VERTICAL
2	5150.00	53.51	54.00	-0.49	46.77	7.90	33.31	34.47	178	6 Average	VERTICAL
3	5175.20	101.07			94.24	7.95	33.35	34.47	178	6 Average	VERTICAL
4	5180.80	110.94			104.11	7.95	33.35	34.47	178	6 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46



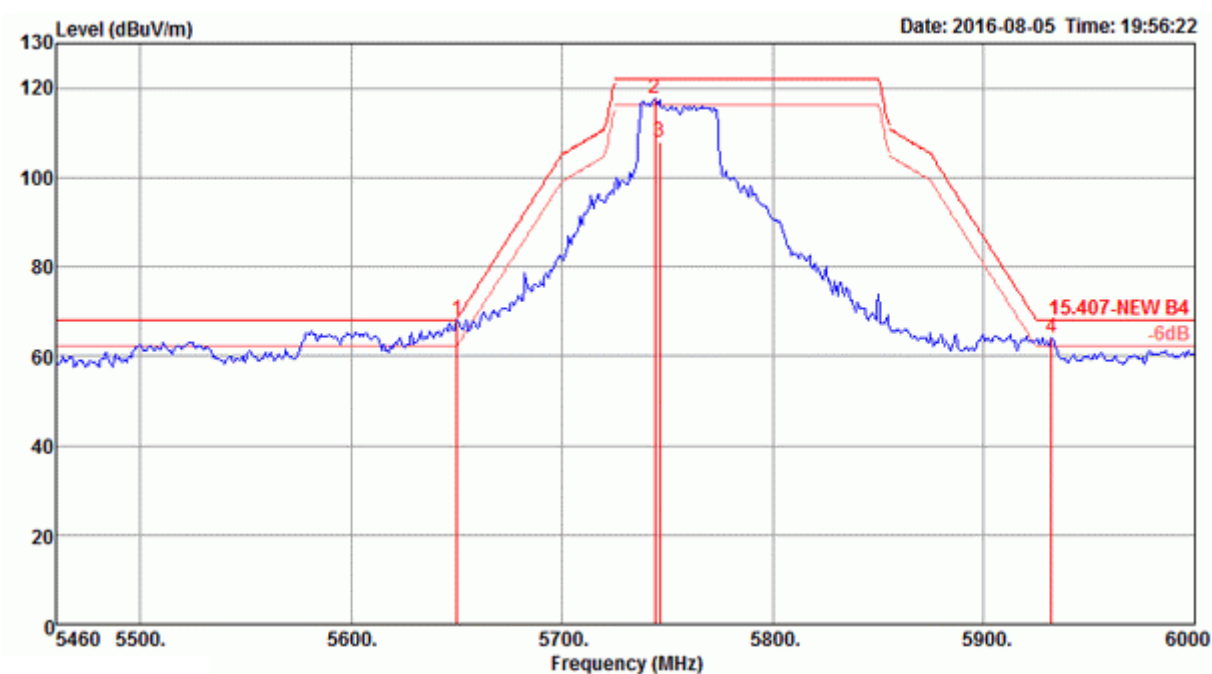
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5062.00	64.97	74.00	-9.03	58.51	7.75	33.18	34.47	150	5	Peak	VERTICAL
2	5062.00	53.59	54.00	-0.41	47.13	7.75	33.18	34.47	150	5	Average	HORIZONTAL
3	5222.80	106.94			100.03	7.96	33.42	34.47	150	5	Average	HORIZONTAL
4	5224.40	116.98			110.07	7.96	33.42	34.47	150	5	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Configurations

IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4

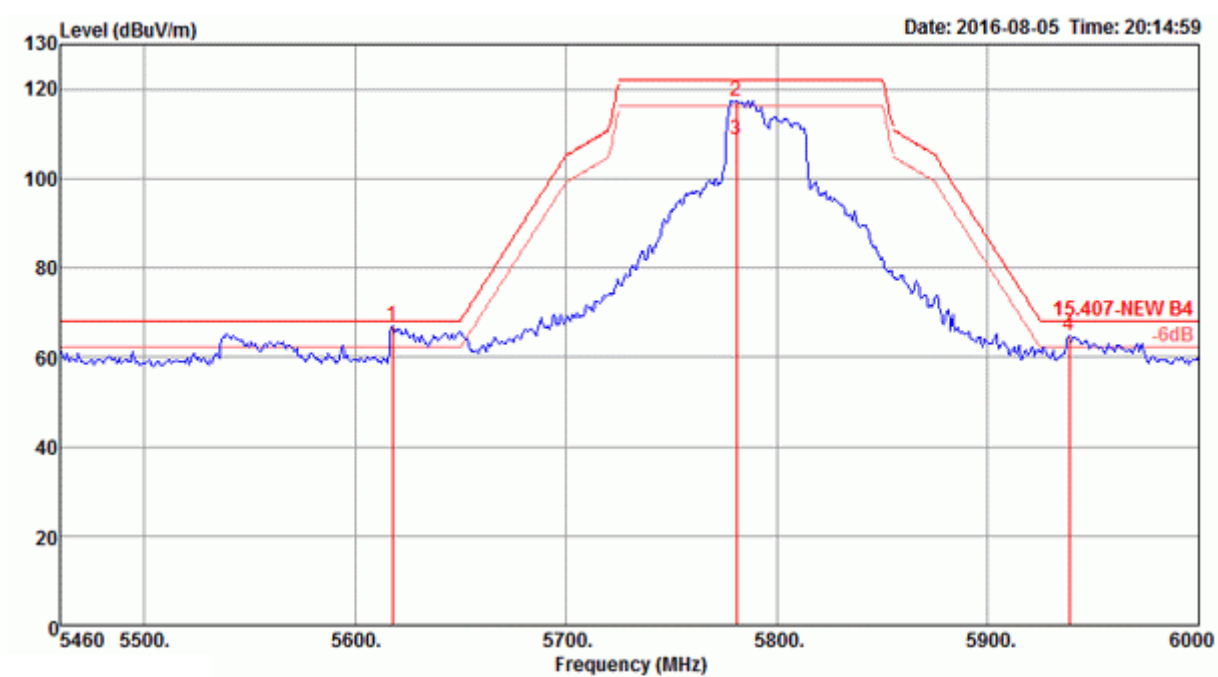
Channel 151



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	5650.08	68.03	68.26	-0.23	60.36	7.92	34.25	34.50	241	17 Peak	HORIZONTAL
2	5744.04	117.63			109.74	7.86	34.55	34.52	241	17 Peak	HORIZONTAL
3	5746.20	107.90			100.01	7.86	34.55	34.52	241	17 Average	HORIZONTAL
4	5931.96	63.97	68.20	-4.23	55.68	7.75	35.10	34.56	241	17 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159



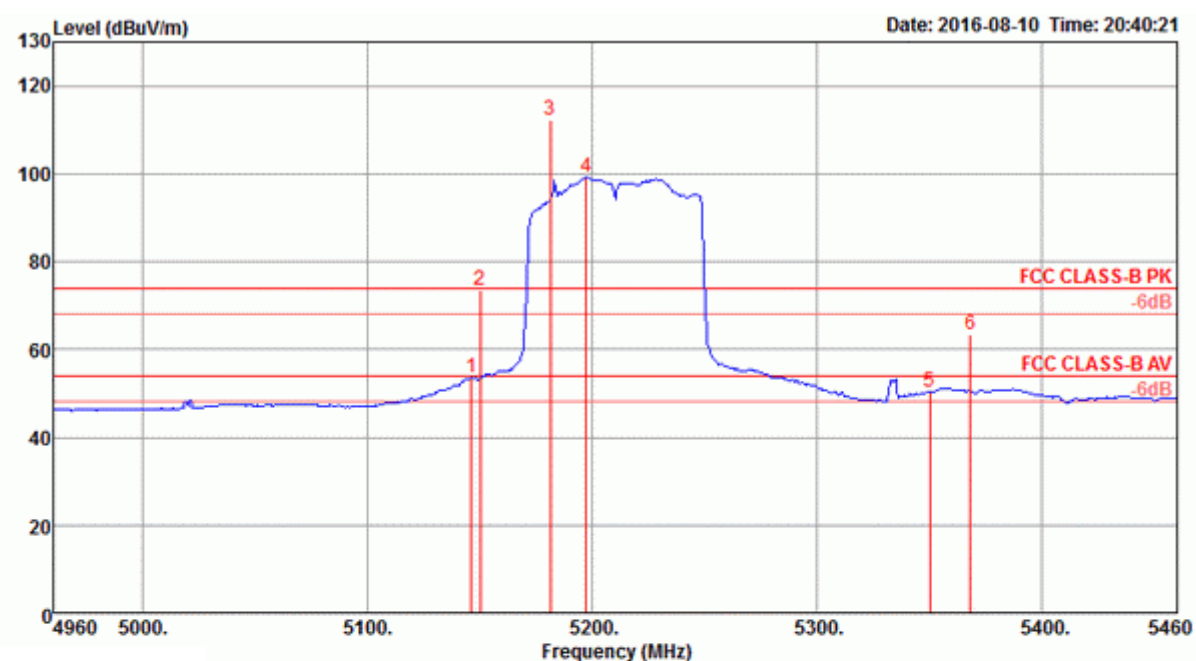
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5617.68	66.94	68.20	-1.26	59.35	7.94	34.15	34.50	154	2	Peak	VERTICAL
2	5780.76	117.44			109.48	7.84	34.65	34.53	154	2	Peak	VERTICAL
3	5780.76	108.74			100.78	7.84	34.65	34.53	154	2	Average	VERTICAL
4	5938.44	64.71	68.20	-3.49	56.42	7.75	35.10	34.56	154	2	Peak	VERTICAL

Item2, 3 are the fundamental frequency at 5795 MHz.

Configurations

IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4

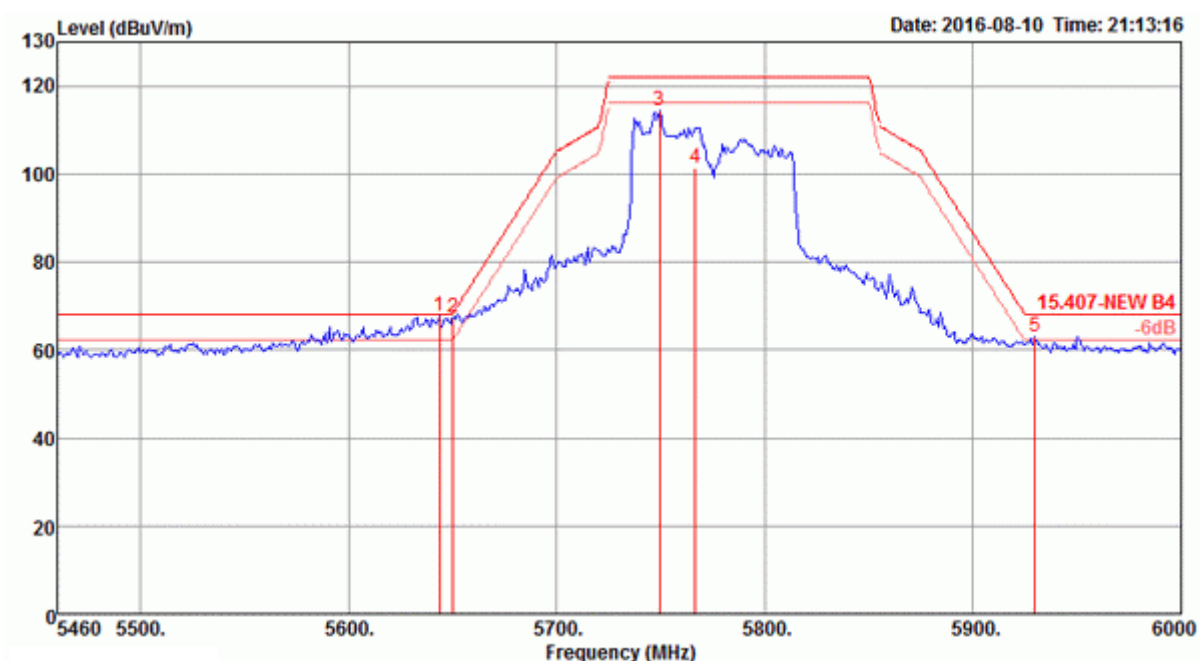
Channel 42



	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	5146.00	53.51	54.00	-0.49	46.77	7.90	33.31	34.47	220	7 Average	HORIZONTAL
2	5150.00	73.43	74.00	-0.57	66.69	7.90	33.31	34.47	220	7 Peak	HORIZONTAL
3	5181.00	112.35			105.52	7.95	33.35	34.47	220	7 Peak	HORIZONTAL
4	5197.00	99.09			92.20	7.98	33.38	34.47	220	7 Average	HORIZONTAL
5	5350.00	50.30	54.00	-3.70	43.29	7.89	33.59	34.47	220	7 Average	HORIZONTAL
6	5368.00	63.48	74.00	-10.52	56.46	7.88	33.61	34.47	220	7 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	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	5643.60	67.60	68.20	-0.60	59.93	7.92	34.25	34.50	178	346	Peak	VERTICAL
2	5650.08	67.51	68.26	-0.75	59.84	7.92	34.25	34.50	178	346	Peak	VERTICAL
3	5749.44	114.54			106.65	7.86	34.55	34.52	178	346	Peak	VERTICAL
4	5766.72	101.29			93.37	7.85	34.60	34.53	178	346	Average	VERTICAL
5	5929.80	63.13	68.20	-5.07	54.84	7.75	35.10	34.56	178	346	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

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

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



Mode: 20 MHz / Chain 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5200.018987	5200.018987	5300.013850	5300.013850
110.00	5200.028826	5200.028826	5300.023820	5300.023820
93.50	5200.026845	5200.026845	5300.026350	5300.026350
Max. Deviation (MHz)	0.028826	0.028826	0.026350	0.026350
Max. Deviation (ppm)	5.54	5.54	4.97	4.97
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5200.0174	5200.0162	5200.0155	5200.0150
10	5200.0191	5200.0187	5200.0175	5200.0163
20	5200.0248	5200.0243	5200.0239	5200.0234
30	5200.0182	5200.0173	5200.0163	5200.0178
40	5200.0144	5200.0138	5200.0132	5200.0123
50	5200.0170	5200.0161	5200.0155	5200.0122
Max. Deviation (MHz)	0.0247	0.0243	0.0239	0.0234
Max. Deviation (ppm)	4.76	4.67	4.59	4.51
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5785.0107	5785.0163	5785.0106	5785.0100
110.00	5785.0152	5785.0138	5785.0130	5785.0126
93.50	5785.0122	5785.0117	5785.0113	5785.0109
Max. Deviation (MHz)	0.0152	0.0163	0.0130	0.0126
Max. Deviation (ppm)	2.63	2.82	2.25	2.18
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5785.0096	5785.0091	5785.0083	5785.0086
10	5785.0099	5785.0096	5785.0095	5785.0090
20	5785.0152	5785.0138	5785.0130	5785.0126
30	5785.0083	5785.0082	5785.0085	5785.0078
40	5785.0074	5785.0071	5785.0070	5785.0065
50	5785.0065	5785.0063	5785.0059	5785.0056
Max. Deviation (MHz)	0.0152	0.0138	0.0130	0.0126
Max. Deviation (ppm)	2.63	2.38	2.25	2.18
Result	Pass			

Mode: 40 MHz / Chain 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5190.0036	5190.0024	5190.0020	5190.0016
110.00	5190.0047	5190.0036	5190.0021	5190.0019
93.50	5190.0061	5190.0056	5190.0052	5190.0049
Max. Deviation (MHz)	5190.0043	5190.0039	5190.0043	5190.0030
Max. Deviation (ppm)	5190.0046	5190.0033	5190.0027	5190.0017
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5190.0036	5190.0024	5190.0020	5190.0016
10	5190.0047	5190.0036	5190.0021	5190.0019
20	5190.0061	5190.0056	5190.0052	5190.0049
30	5190.0043	5190.0039	5190.0043	5190.0030
40	5190.0046	5190.0033	5190.0027	5190.0017
50	5190.0039	5190.0033	5190.0027	5190.0012
Max. Deviation (MHz)	0.0061	0.0056	0.0052	0.0049
Max. Deviation (ppm)	1.17	1.09	1.00	0.94
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5755.0091	5755.0088	5755.0086	5755.0084
110.00	5755.0087	5755.0091	5755.0095	5755.0094
93.50	5755.0088	5755.0084	5755.0093	5755.0092
Max. Deviation (MHz)	0.0091	0.0091	0.0095	0.0094
Max. Deviation (ppm)	1.58	1.58	1.65	1.64
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5755.0070	5755.0068	5755.0067	5755.0064
10	5755.0091	5755.0084	5755.0082	5755.0079
20	5755.0087	5755.0091	5755.0095	5755.0094
30	5755.0065	5755.0064	5755.0063	5755.0055
40	5755.0064	5755.0054	5755.0050	5755.0046
50	5755.0061	5755.0053	5755.0044	5755.0039
Max. Deviation (MHz)	0.0091	0.0091	0.0095	0.0094
Max. Deviation (ppm)	1.58	1.58	1.65	1.64
Result	Pass			

Mode: 80 MHz / Chain 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5210.0017	5210.0014	5210.0009	5210.0003
110.00	5210.0031	5210.0026	5210.0022	5210.0019
93.50	5210.0022	5210.0022	5210.0016	5210.0014
Max. Deviation (MHz)	0.0031	0.0026	0.0022	0.0019
Max. Deviation (ppm)	0.60	0.50	0.42	0.36
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5210.0025	5210.0017	5210.0014	5210.0005
10	5210.0017	5210.0012	5210.0008	5210.0004
20	5210.0031	5210.0026	5210.0022	5210.0019
30	5210.0013	5210.0008	5210.0006	5210.0002
40	5210.0009	5209.9998	5209.9995	5209.9878
50	5210.0004	5209.9992	5209.9974	5209.9982
Max. Deviation (MHz)	0.0031	0.0026	0.0026	0.0122
Max. Deviation (ppm)	0.60	0.50	0.50	2.34
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9976	5774.9963	5774.9956	5774.9948
110.00	5775.0009	5774.9987	5774.9967	5774.9934
93.50	5774.9935	5774.9928	5774.9916	5774.9908
Max. Deviation (MHz)	0.0065	0.0072	0.0084	0.0092
Max. Deviation (ppm)	1.13	1.25	1.45	1.59
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5774.9978	5774.9969	5774.9962	5774.9952
10	5774.9983	5774.9976	5774.9966	5774.9958
20	5775.0009	5774.9987	5774.9967	5774.9934
30	5774.9962	5774.9958	5774.9946	5774.9939
40	5774.9957	5774.9941	5774.9928	5774.9916
50	5774.9936	5774.9921	5774.9911	5774.9904
Max. Deviation (MHz)	0.0064	0.0079	0.0089	0.0096
Max. Deviation (ppm)	1.11	1.37	1.54	1.66
Result	Pass			