FCC Test Report

Equipment	:	Max-Stream AC1750 MU-MIMO GIGABIT ROUTER Max-Stream AC1900 MU-MIMO GIGABIT ROUTER
Brand Name	:	LINKSYS
Model No.	:	EA7400V2;EA7500V2
FCC ID	:	Q87-EA7500V2
Standard	:	47 CFR FCC Part 15.407
Operating Band	:	5150 MHz – 5250 MHz 5725 MHz – 5850 MHz
Applicant	:	LINKSYS LLC 121 Theory Drive, Irvine ,California,United States, 92617
Function	:	☐ Outdoor; ☒ Indoor; ☐ Fixed P2P ☐ Client

The product sample received on Jun. 29, 2016 and completely tested on Sep. 02, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Sam Chen
SPORTON INTERNATIONAL INC.

Testing Laboratory
1190

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Summary of Test Result

Conformance Test Specifications			
Report Clause	**Ref. Std. Clause**	**Description**	**Result**
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.207	AC Power-line Conducted Emissions	Complied
3.2	15.407(a)	Emission Bandwidth	Complied
3.3	15.407(a)	Maximum Conducted Output Power	Complied
3.4	15.407(a)	Peak Power Spectral Density	Complied
3.5	15.407(b)	Unwanted Emissions	Complied
3.6	15.407(g)	Frequency Stability	Complied

Revision History

Report No.	Version	Description	Issued Date
FR662319-01AB	Rev. 01	Initial issue of report	Sep. 21, 2016

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).
- 5.3G-T(Taiwan) is the 5.3GHz TW Band (5.25-5.35GHz).
- 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 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)		Remark
					2.4GHz	5GHz	
1	Airgain	ET2420DLSRPSMA	Dipole Ant.	R-SMA	1.3	2.3	External
2	Airgain	ET2420DLSRPSMA	Dipole Ant.	R-SMA	1.3	2.3	
3	Airgain	ET2420DLSRPSMA	Dipole Ant.	R-SMA	1.3	2.3	
4	Airgain	N2420DGCSBK	PCB Ant.	I-PEX	2.1	2.4	Internal

Note: The EUT has four antennas.

<For 2.4GHz>

For IEEE 802.11b/g/n mode (4TX4RX)

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

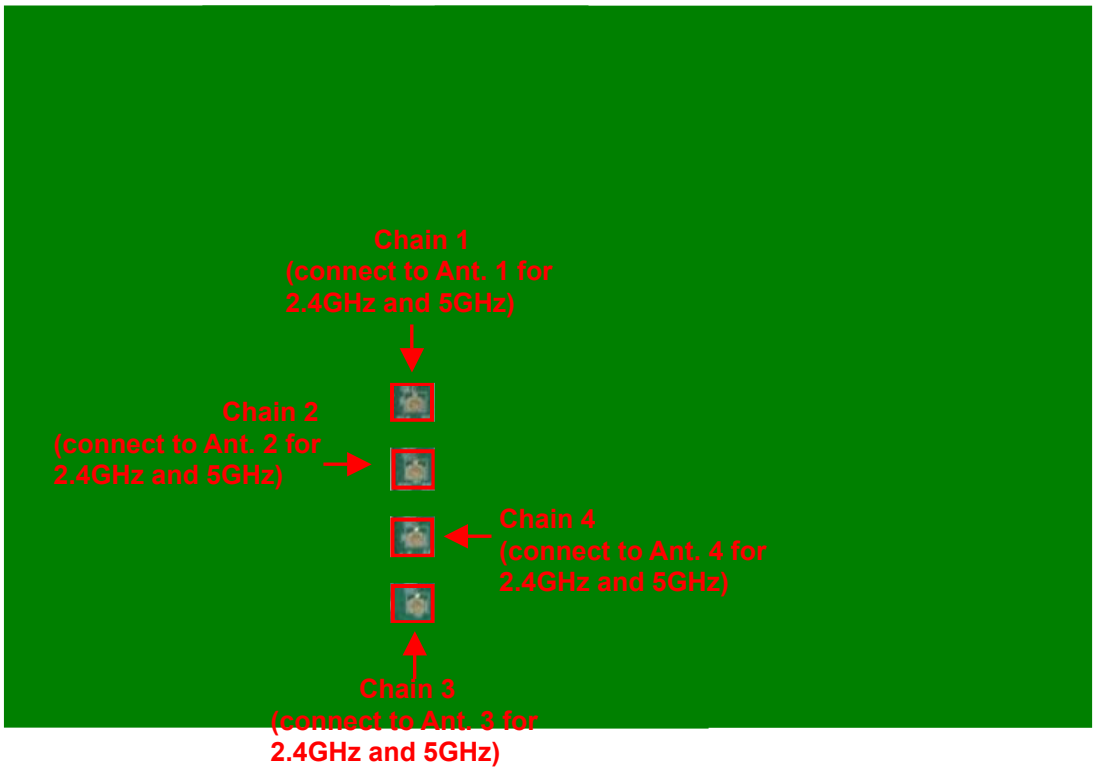
Chain 1, Chain 2, Chain 3 and Chain 4 could transmit/receive simultaneously.

<For 5GHz>

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) ≥ 1/T
11a	1	n/a (DC>=0.98)	n/a (DC>=0.98)
VHT20	1	n/a (DC>=0.98)	n/a (DC>=0.98)
VHT20,BF	0.9937	n/a (DC>=0.98)	n/a (DC>=0.98)
VHT40	1	n/a (DC>=0.98)	n/a (DC>=0.98)
VHT40,BF	0.9640	0.001205	1k
VHT80	1	n/a (DC>=0.98)	n/a (DC>=0.98)
VHT80,BF	0.9259	0.000562	3k

1.1.4 EUT Operational Condition

EUT Power Type	From power adapter			
Beamforming Function	☒	With beamforming for 802.11ac in 5GHz	☐	Without beamforming

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Equipment Name	Modulation	Description
EA7400V2	Max-Stream AC1750 MU-MIMO GIGABIT ROUTER	Without 256QAM in 802.11ac.	All the models are identical, the difference model served as marketing strategy.
EA7500V2	Max-Stream AC1900 MU-MIMO GIGABIT ROUTER	With 256QAM in 802.11ac.	

From the above models, model: EA7500V2 was selected as representative model for the test and its data was recorded in this report.

1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- FCC KDB 789033 D02 v01r03
- FCC KDB 644545 D03 v01
- 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	Eddie Weng	22°C / 54%	Aug. 10, 2016~Aug. 11, 2016
Radiated	03CH01-CB	Dk Chang	22°C / 54%	Jul. 30, 2016~Aug. 17, 2016 for Adapter 1&Adapter 2
		Gino Huang	22°C / 54%	Sep. 02, 2016 for Adapter 3&Adapter 4
AC Conduction	CO01-CB	Kane Liu	23°C / 60%	Jul. 18, 2016 for Adapter 1&Adapter 2
		Gavin Peng/Ryo Fan/Hank Yang	24°C / 51%	Sep. 02, 2016 for Adapter 3&Adapter 4

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

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
5.2G	11a	20	1	4	5180	L	17
5.2G	11a	20	1	4	5200	M	15
5.2G	11a	20	1	4	5240	H	18
5.8G	11a	20	1	4	5745	L	17
5.8G	11a	20	1	4	5785	M	19
5.8G	11a	20	1	4	5825	H	1A
5.2G	VHT20	20	1,(M0)	4	5180	L	18
5.2G	VHT20	20	1,(M0)	4	5200	M	17
5.2G	VHT20	20	1,(M0)	4	5240	H	18
5.8G	VHT20	20	1,(M0)	4	5745	L	18
5.8G	VHT20	20	1,(M0)	4	5785	M	19
5.8G	VHT20	20	1,(M0)	4	5825	H	1C
5.2G	VHT40	40	1,(M0)	4	5190	L	19
5.2G	VHT40	40	1,(M0)	4	5230	H	1B
5.8G	VHT40	40	1,(M0)	4	5755	L	1B
5.8G	VHT40	40	1,(M0)	4	5795	H	1B
5.2G	VHT80	80	1,(M0)	4	5210	S	0A
5.8G	VHT80	80	1,(M0)	4	5775	S	18
5.2G	VHT20,BF	20	1,(M0)	4	5180	L	24
5.2G	VHT20,BF	20	1,(M0)	4	5200	M	23
5.2G	VHT20,BF	20	1,(M0)	4	5240	H	24
5.8G	VHT20,BF	20	1,(M0)	4	5745	L	23
5.8G	VHT20,BF	20	1,(M0)	4	5785	M	24
5.8G	VHT20,BF	20	1,(M0)	4	5825	H	23
5.2G	VHT40,BF	40	1,(M0)	4	5190	L	23
5.2G	VHT40,BF	40	1,(M0)	4	5230	H	23
5.8G	VHT40,BF	40	1,(M0)	4	5755	L	24
5.8G	VHT40,BF	40	1,(M0)	4	5795	H	24
5.2G	VHT80,BF	80	1,(M0)	4	5210	S	10
5.8G	VHT80,BF	80	1,(M0)	4	5775	S	24

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	2.4GHz with Adapter 1
2	5GHz with Adapter 1
Mode 2 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3~5 will follow this same test mode.	
3	5GHz with Adapter 2
4	5GHz with Adapter 3
5	5GHz with Adapter 4
Mode 2 ~ Mode 5 are worst test result among Mode 1~5, and the test result of those four modes are selected to record in the 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
Note: Measured from R-SMA end when testing.	

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	CTX
1	2.4GHz + EUT in Z axis with Adapter 1
2	2.4GHz+ EUT in Y axis with Adapter 1
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	5GHz + EUT in Z axis with Adapter 1
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4~Mode 6 will follow this same test mode.	
4	5GHz + EUT in Z axis with Adapter 2
5	5GHz + EUT in Z axis with Adapter 3
6	5GHz + EUT in Z axis with Adapter 4
Mode 3 ~ Mode 6 are worst test result among Mode 1~6, and the test result of those four modes are selected to record in the test report.	

Operating Mode > 1GHz	CTX
1	Place EUT in Y axis
2	Place EUT in Z axis
Mode 2 has been evaluated to be the worst case after evaluating. Consequently, measurement will follow this same test mode.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
EUT Z axis has been evaluated to be the worst case at Radiated Emissions <Above 1GHz>; thus, the measurement for Simultaneous Transmission Analysis will follow this same test configuration.	
1	Place EUT in Z axis + WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA662319-01 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

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.

Note 2: There are two modes of EUT, one is beamforming mode, and the other is non-beamforming mode for 802.11ac in 5GHz, Beamforming mode and non-beamforming mode has been test and record in this test report.

2.3 EUT Operation during Test

<For Non-Beamforming Mode>

The EUT was programmed to be in continuously transmitting mode.

<For Beamforming Mode>

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

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

The program was executed as follows:

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

2.4 Accessories

Accessories			
Equipment Name	**Brand Name**	**Model Name**	**Rating**
Adapter 1 (Fixed plug)	LEI	MU30-P120250-A1	Input: 100-240V~50/60Hz 0.8A Output: 12V, 2.5A
Adapter 2 (Fixed plug)	APD	WA-30J12FU	Input: 100-240V~50-60Hz, 0.9A Max. Output: 12V, 2.5A
Adapter 3 (Interchangeable plug)	APD	WA-30J12R	Input: 100-240V~50-60Hz, 0.9A Max. Output: 12V, 2.5A
Adapter 4 (Interchangeable plug)	Ktec	KSAS0361200250D5	Input: 100-240V~50/60Hz, 1.0A Output: 12V, 2.5A
Others			
RJ-45 cable (Black and Bule): Non-Shielded, 1.0m Plug*2 only for Adapter 3 and Adapter 4 use.			

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB	DELL	E6430	DoC
2	Flash disk3.0	Transcend	JetFlash-700	DoC
3	Flash disk3.0	Transcend	JetFlash-700	DoC

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

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

<For Non-Beamforming Mode>
For Test Site No: 03CH01-CB (above 1GHz)

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

<For Beamforming Mode>
For Test Site No: 03CH01-CB (above 1GHz)

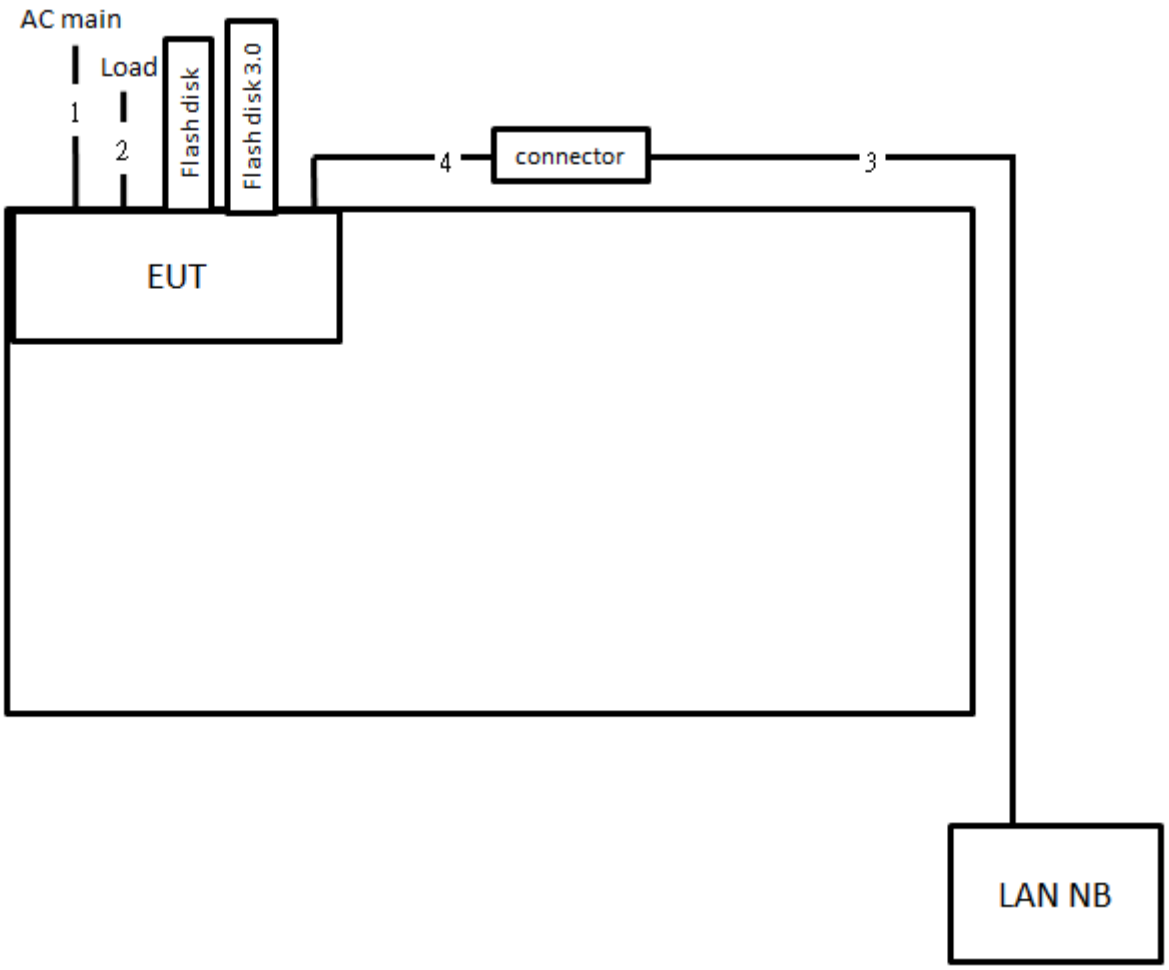
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB*2	DELL	E4300	DoC
2	RX Device	LINKSYS	EA7300	N/A

For Test Site No: TH01-CB

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

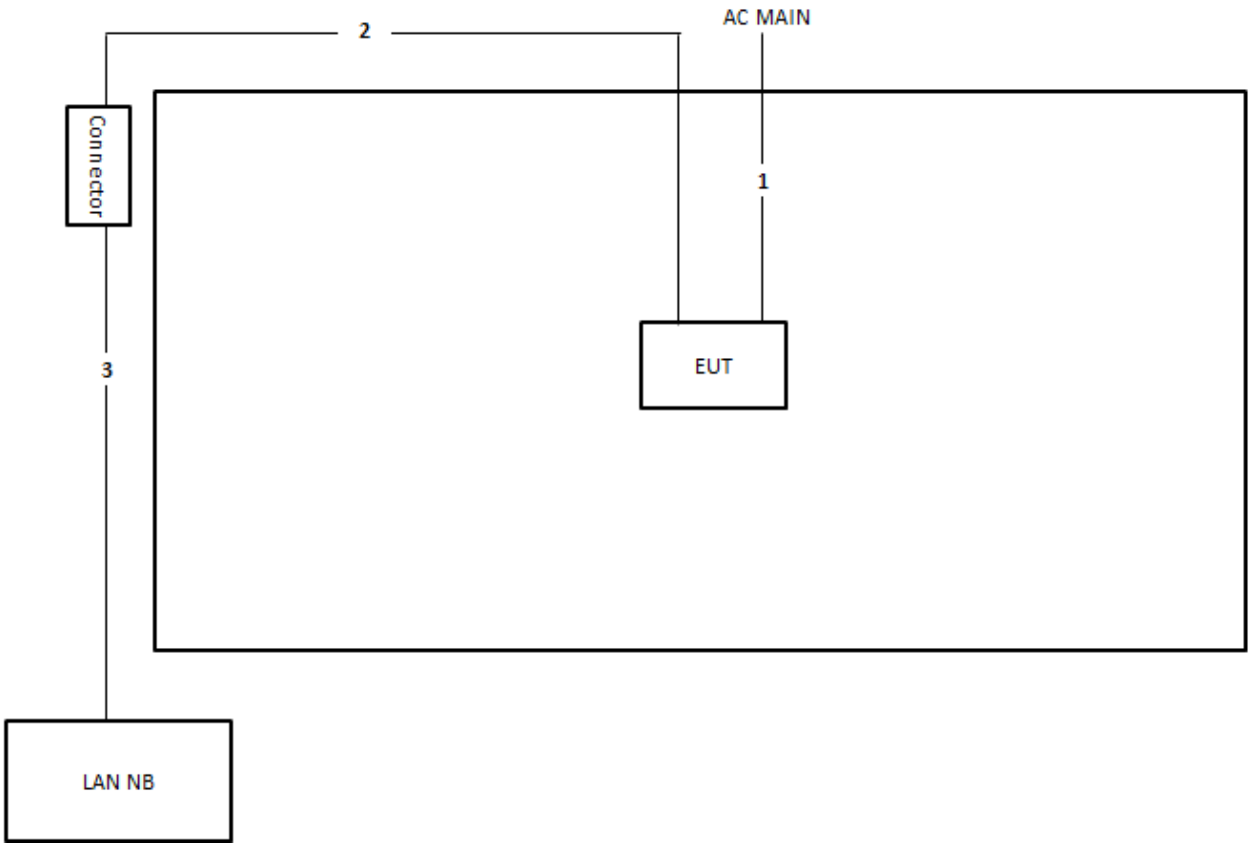
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



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

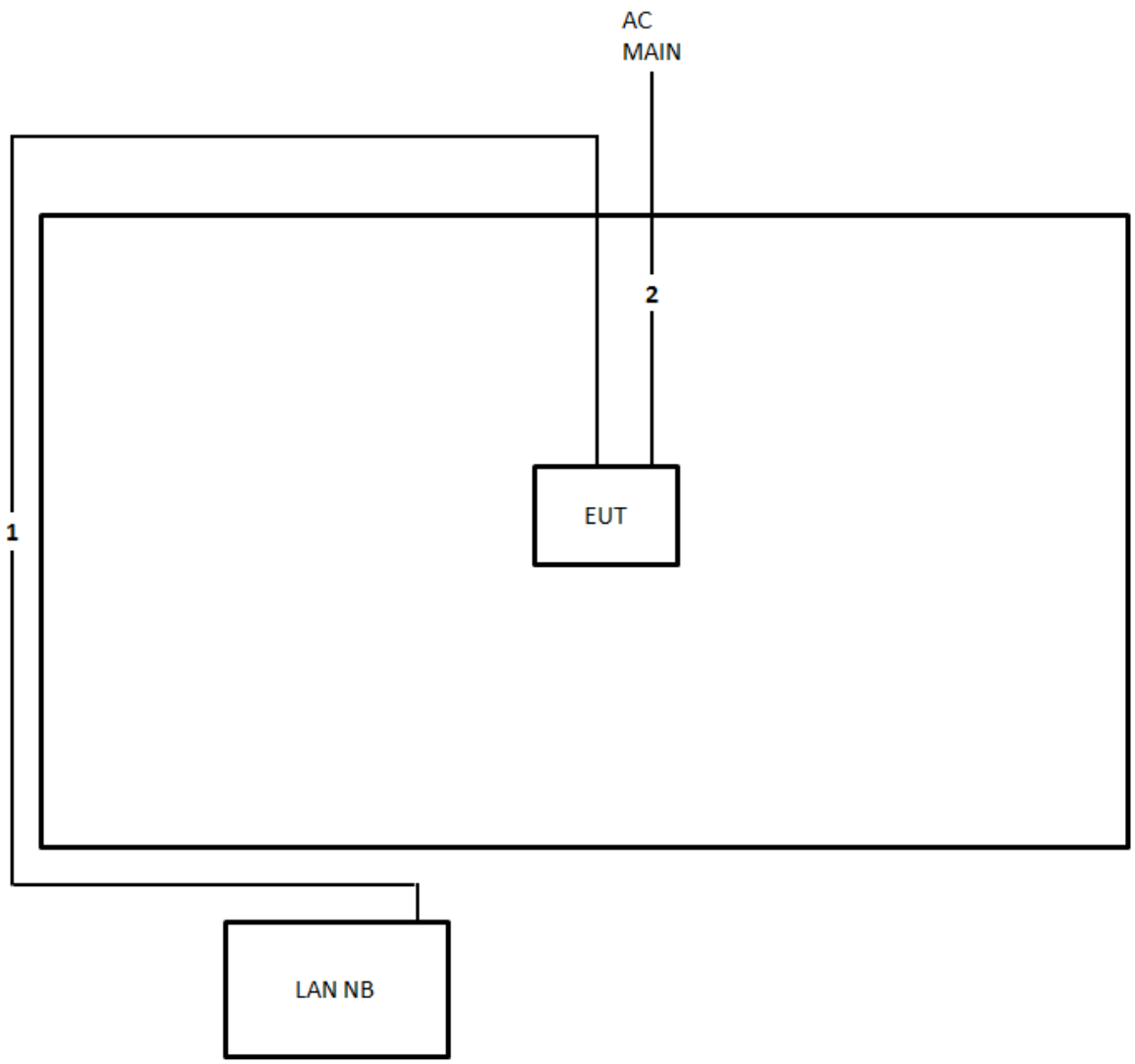
Test Setup Diagram - Radiated Test < 1GHz



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

<For Non-Beamforming Mode>

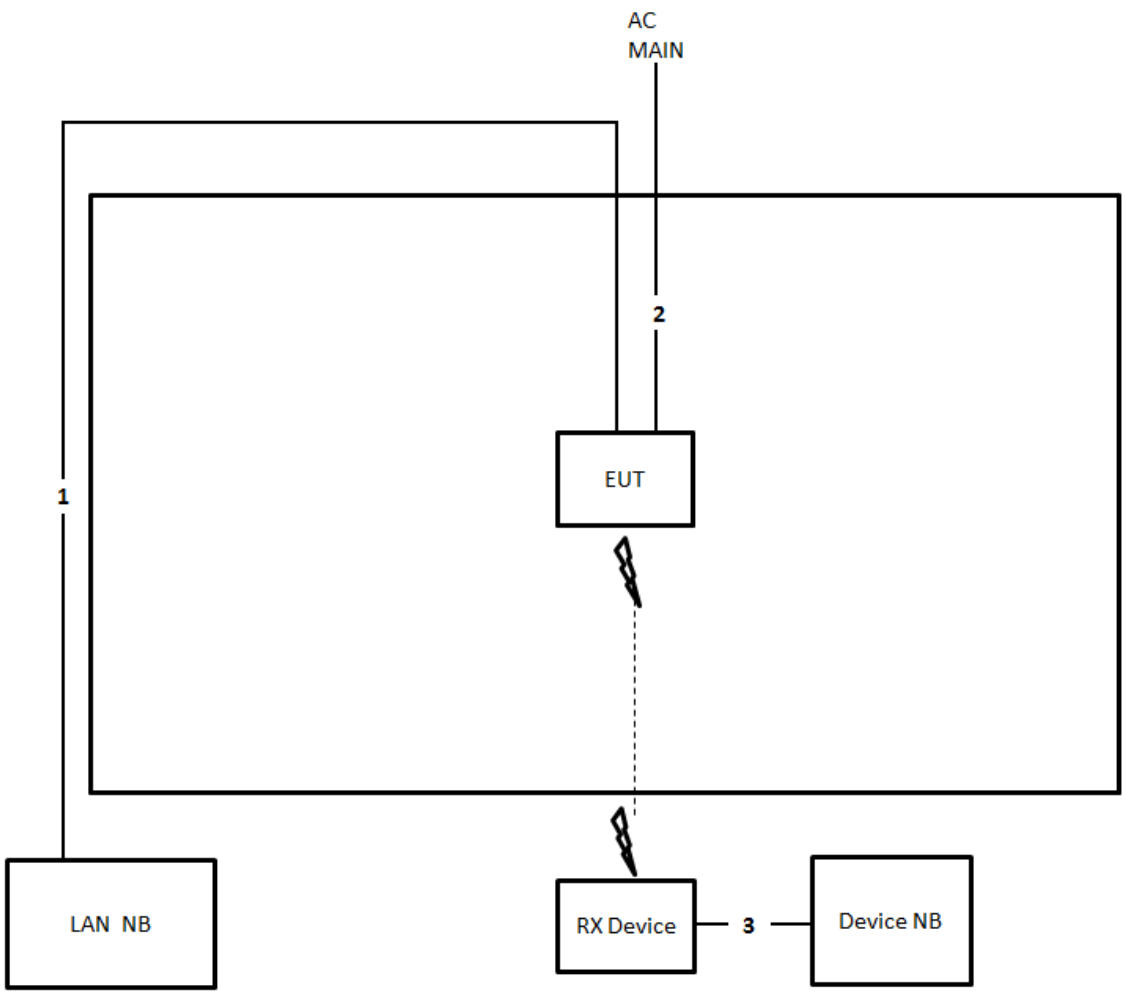
Test Setup Diagram - Radiated Test > 1GHz



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

<For Beamforming Mode>

Test Setup Diagram - Radiated Test > 1GHz



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

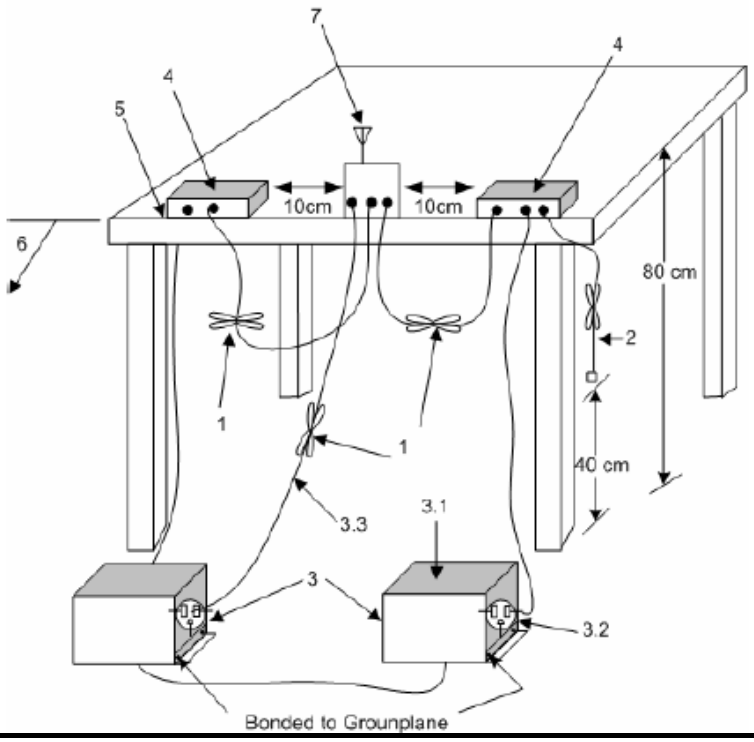
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



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 ≥ 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 ≥ 500kHz.

3.2.2 Measuring Instruments

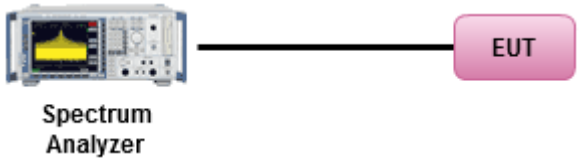
Refer a test equipment and calibration data table in this test report.

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 D02 v01r03, 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

Emission Bandwidth



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
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

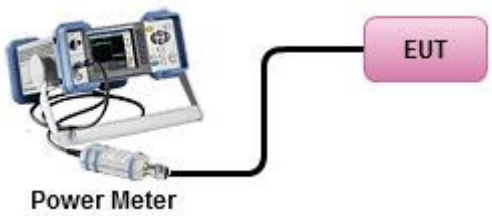
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
▪ Maximum Conducted Output Power	
	[duty cycle ≥ 98% or external video / power trigger]
	☐ Refer as FCC KDB 789033 D02 v01r03, clause E Method SA-1 (spectral trace averaging).
	☐ Refer as FCC KDB 789033 D02 v01r03, 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 D02 v01r03, clause E Method SA-2 (spectral trace averaging).
	☐ Refer as FCC KDB 789033 D02 v01r03, 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 D02 v01r03, 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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

RF Output Power (Power Meter)



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° ≤ θ < 8° ; -13 − 0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40° -35.9 − 1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° ; -42 dBW/MHz for θ > 45°
☐	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

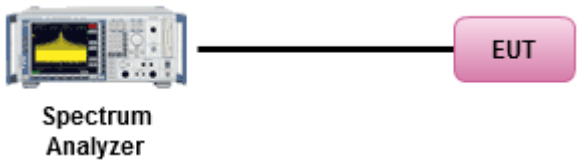
Refer a test equipment and calibration data table in this test report.

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 D02 v01r03, F)5) 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 D02 v01r03, clause E Method SA-1 (spectral trace averaging).	
	☐ Refer as FCC KDB 789033 D02 v01r03, 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 D02 v01r03, clause E Method SA-2 (spectral trace averaging).	
	☐ Refer as FCC KDB 789033 D02 v01r03, 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: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$

3.4.4 Test Setup

Power Spectral Density



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.

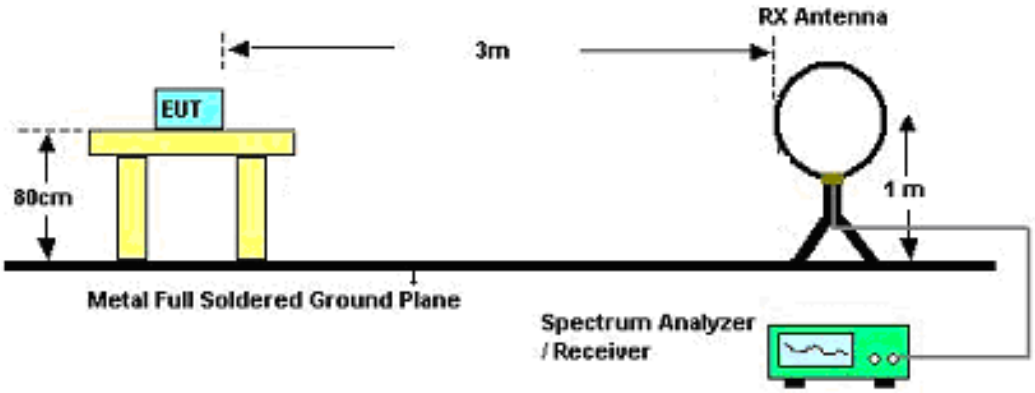
3.5.3 Test Procedures

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 ≥ 98 or duty factor].			
▪ For the transmitter unwanted emissions shall be measured using following options below:			
	▪ Refer as FCC KDB 789033 D02 v01r03, clause H)2) for unwanted emissions into non-restricted bands.		
	▪ Refer as FCC KDB 789033 D02 v01r03, clause H)1) for unwanted emissions into restricted bands.		
		☐	Refer as FCC KDB 789033 D02 v01r03, H)6) Method AD (Trace Averaging).
		☒	Refer as FCC KDB 789033 D02 v01r03, H)6) Method VB (Reduced VBW).
		☐	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 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 D02 v01r03, 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.			

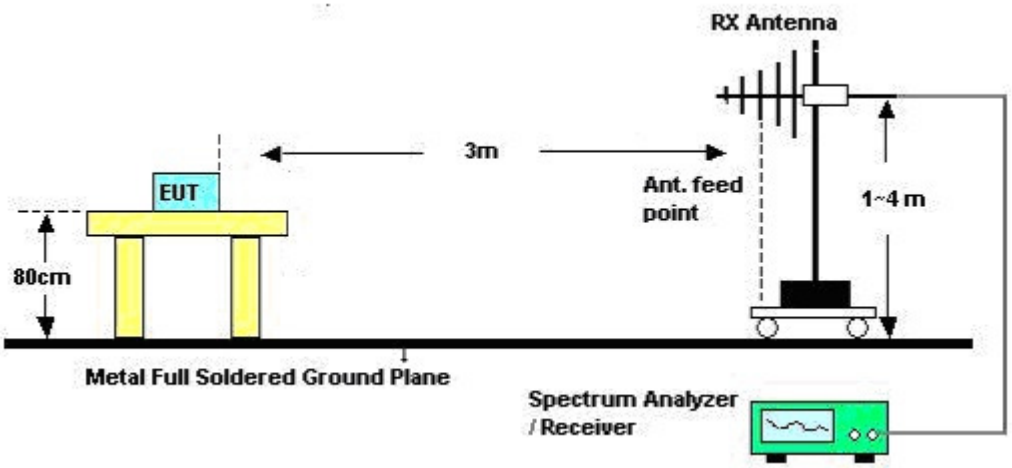
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

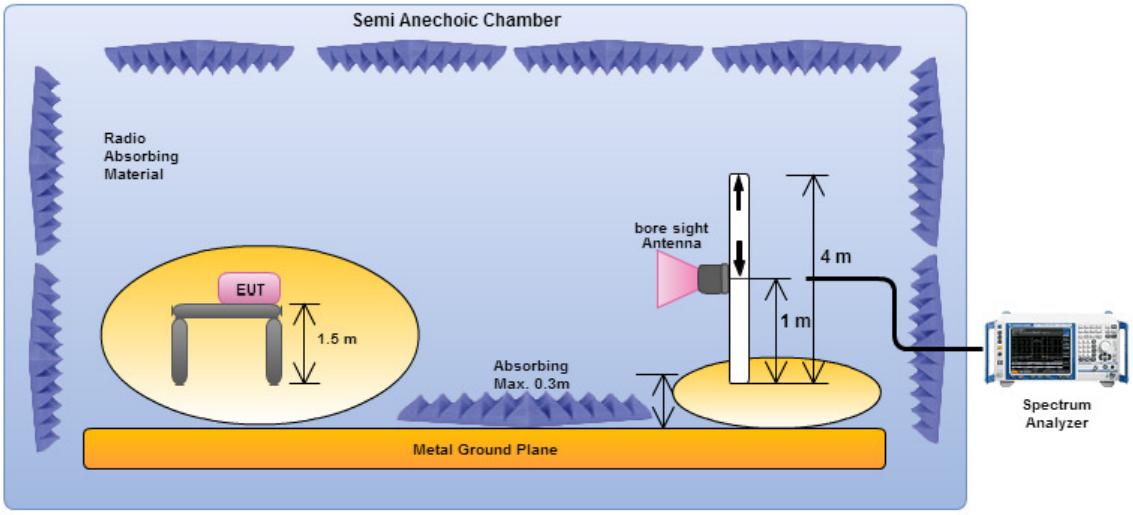
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



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

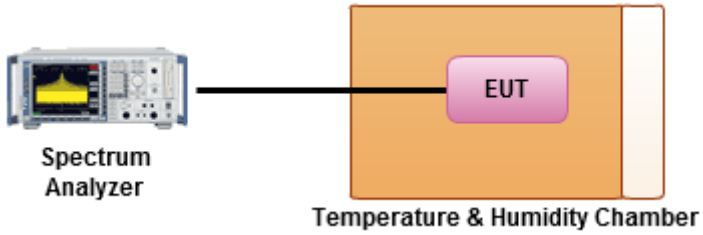
Refer a test equipment and calibration data table in this test report.

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~40°C.

3.6.4 Test Setup

Frequency Stability



3.6.5 Test Result of Frequency Stability

Refer as Appendix F

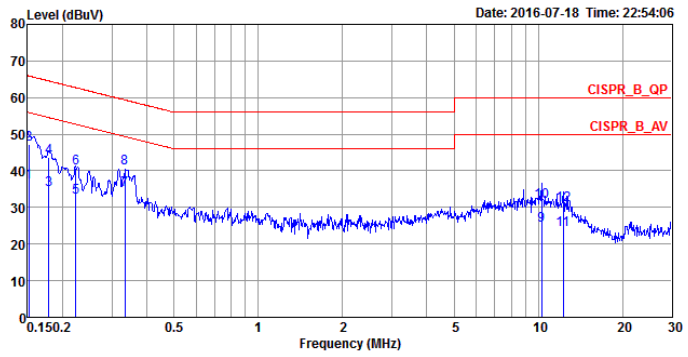
4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 27, 2016	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 08, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 23, 2015	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 24, 2016	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA	TESEQ	CBL6112D	37880	20MHz ~ 2GHz	Sep. 03, 2015	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Mar. 15, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 18, 2016	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Nov. 13, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-l0-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 03, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 02, 2015	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.
"*" Calibration Interval of instruments listed above is two years.
NCR means Non-Calibration required.

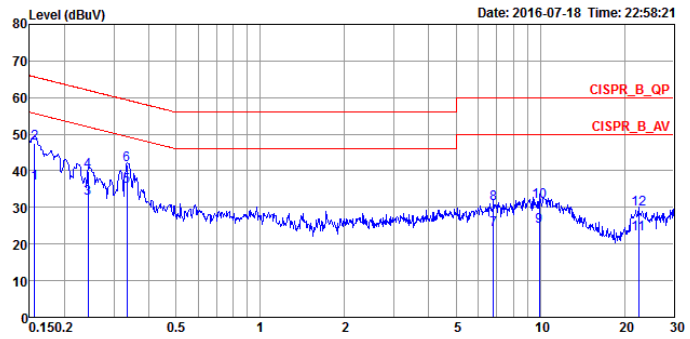
AC Power-line Conducted Emissions Result			
Operating Mode	2	**Power Phase**	Neutral
Operating Function	CTX 5GHz with Adapter 1		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1516	37.03	-18.88	55.91	26.85	10.02	0.16	NEUTRAL	Average
2	0.1516	47.11	-18.80	65.91	36.93	10.02	0.16	NEUTRAL	QP
3	0.1787	34.74	-19.81	54.55	24.64	9.92	0.18	NEUTRAL	Average
4	0.1787	43.77	-20.78	64.55	33.67	9.92	0.18	NEUTRAL	QP
5	0.2232	32.75	-19.95	52.70	22.67	9.92	0.16	NEUTRAL	Average
6	0.2232	40.81	-21.89	62.70	30.73	9.92	0.16	NEUTRAL	QP
7	0.3338	34.72	-14.63	49.35	24.74	9.92	0.06	NEUTRAL	Average
8	0.3338	40.62	-18.73	59.35	30.64	9.92	0.06	NEUTRAL	QP
9	10.2876	25.03	-24.97	50.00	14.73	10.15	0.15	NEUTRAL	Average
10	10.2876	31.64	-28.36	60.00	21.34	10.15	0.15	NEUTRAL	QP
11	12.2531	24.02	-25.98	50.00	13.64	10.19	0.19	NEUTRAL	Average
12	12.2531	30.69	-29.31	60.00	20.31	10.19	0.19	NEUTRAL	QP

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

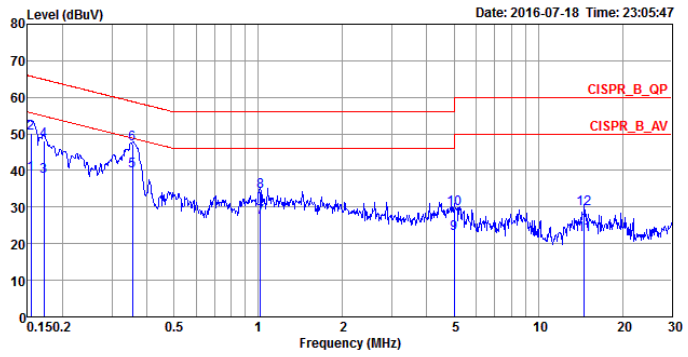
AC Power-line Conducted Emissions Result			
Operating Mode	2	**Power Phase**	Line
Operating Function	CTX 5GHz with Adapter 1		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1565	36.67	-18.98	55.65	26.48	10.02	0.17	LINE	Average
2	0.1565	47.67	-17.98	65.65	37.48	10.02	0.17	LINE	QP
3	0.2429	32.34	-19.66	52.00	22.28	9.92	0.14	LINE	Average
4	0.2429	39.85	-22.15	62.00	29.79	9.92	0.14	LINE	QP
5	0.3338	35.85	-13.50	49.35	25.87	9.92	0.06	LINE	Average
6	0.3338	41.64	-17.71	59.35	31.66	9.92	0.06	LINE	QP
7	6.8051	23.97	-26.03	50.00	13.78	10.07	0.12	LINE	Average
8	6.8051	30.96	-29.04	60.00	20.77	10.07	0.12	LINE	QP
9	9.9130	24.86	-25.14	50.00	14.56	10.15	0.15	LINE	Average
10	9.9130	31.61	-28.39	60.00	21.31	10.15	0.15	LINE	QP
11	22.4163	22.63	-27.37	50.00	12.01	10.37	0.25	LINE	Average
12	22.4163	29.43	-30.57	60.00	18.81	10.37	0.25	LINE	QP

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

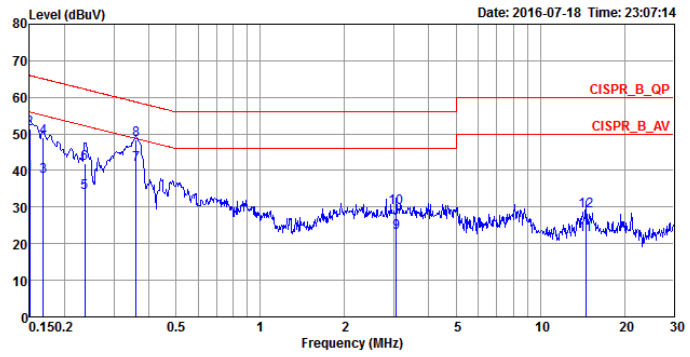
AC Power-line Conducted Emissions Result			
Operating Mode	3	**Power Phase**	Neutral
Operating Function	CTX 5GHz with Adapter 2		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1540	39.04	-16.74	55.78	28.86	10.02	0.16	NEUTRAL	Average
2	0.1540	50.27	-15.51	65.78	40.09	10.02	0.16	NEUTRAL	QP
3	0.1712	38.27	-16.63	54.90	28.08	10.02	0.17	NEUTRAL	Average
4	0.1712	47.98	-16.92	64.90	37.79	10.02	0.17	NEUTRAL	QP
5	0.3558	39.78	-9.05	48.83	29.82	9.92	0.04	NEUTRAL	Average
6	0.3558	47.15	-11.68	58.83	37.19	9.92	0.04	NEUTRAL	QP
7	1.0157	27.20	-18.80	46.00	16.54	9.94	0.72	NEUTRAL	Average
8	1.0157	34.13	-21.87	56.00	23.47	9.94	0.72	NEUTRAL	QP
9	5.0046	22.62	-27.38	50.00	12.50	10.02	0.10	NEUTRAL	Average
10	5.0046	29.53	-30.47	60.00	19.41	10.02	0.10	NEUTRAL	QP
11	14.5942	22.50	-27.50	50.00	12.07	10.22	0.21	NEUTRAL	Average
12	14.5942	29.39	-30.61	60.00	18.96	10.22	0.21	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.)

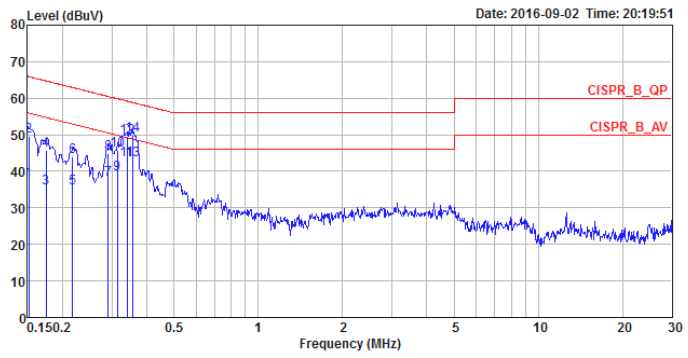
AC Power-line Conducted Emissions Result			
Operating Mode	3	**Power Phase**	Line
Operating Function	CTX 5GHz with Adapter 2		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1500	39.12	-16.88	56.00	28.94	10.02	0.16	LINE	Average
2	0.1500	51.51	-14.49	66.00	41.33	10.02	0.16	LINE	QP
3	0.1677	38.48	-16.60	55.08	28.29	10.02	0.17	LINE	Average
4	0.1677	48.97	-16.11	65.08	38.78	10.02	0.17	LINE	QP
5	0.2366	33.94	-18.28	52.22	23.87	9.92	0.15	LINE	Average
6	0.2366	42.06	-20.16	62.22	31.99	9.92	0.15	LINE	QP
7	0.3596	41.66	-7.08	48.74	31.70	9.92	0.04	LINE	Average
8	0.3596	48.53	-10.21	58.74	38.57	9.92	0.04	LINE	QP
9	3.0576	22.89	-23.11	46.00	12.83	9.98	0.08	LINE	Average
10	3.0576	29.74	-26.26	56.00	19.68	9.98	0.08	LINE	QP
11	14.5171	22.30	-27.70	50.00	11.87	10.22	0.21	LINE	Average
12	14.5171	28.99	-31.01	60.00	18.56	10.22	0.21	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.)

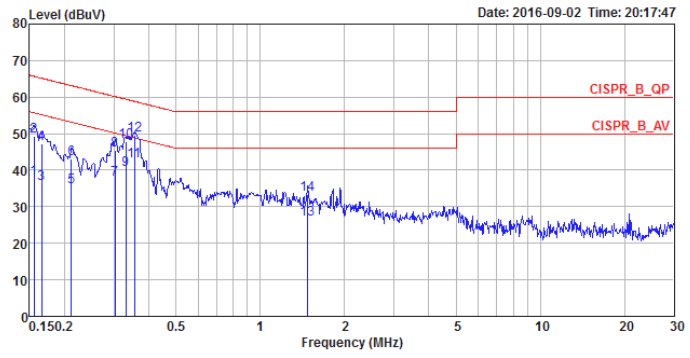
AC Power-line Conducted Emissions Result			
Operating Mode	4	**Power Phase**	Neutral
Operating Function	CTX 5GHz with Adapter 3		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1516	37.46	-18.45	55.91	27.28	10.02	0.16	NEUTRAL	Average
2	0.1516	49.54	-16.37	65.91	39.36	10.02	0.16	NEUTRAL	QP
3	0.1749	35.39	-19.33	54.72	25.29	9.92	0.18	NEUTRAL	Average
4	0.1749	45.67	-19.05	64.72	35.57	9.92	0.18	NEUTRAL	QP
5	0.2174	35.39	-17.53	52.92	25.30	9.92	0.17	NEUTRAL	Average
6	0.2174	44.06	-18.86	62.92	33.97	9.92	0.17	NEUTRAL	QP
7	0.2909	37.85	-12.65	50.50	27.84	9.92	0.09	NEUTRAL	Average
8	0.2909	44.99	-15.51	60.50	34.98	9.92	0.09	NEUTRAL	QP
9	0.3133	39.41	-10.47	49.88	29.42	9.92	0.07	NEUTRAL	Average
10	0.3133	45.90	-13.98	59.88	35.91	9.92	0.07	NEUTRAL	QP
11	0.3392	43.06	-6.16	49.22	33.09	9.92	0.05	NEUTRAL	Average
12	0.3392	49.43	-9.79	59.22	39.46	9.92	0.05	NEUTRAL	QP
13	0.3558	43.10	-5.73	48.83	33.14	9.92	0.04	NEUTRAL	Average
14	0.3558	50.03	-8.80	58.83	40.07	9.92	0.04	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.)

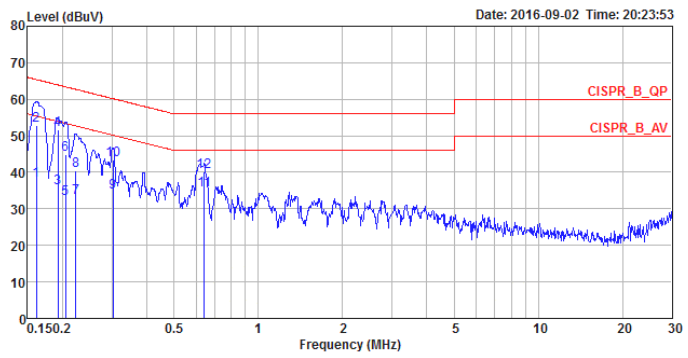
AC Power-line Conducted Emissions Result			
Operating Mode	4	**Power Phase**	Line
Operating Function	CTX 5GHz with Adapter 3		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1557	37.73	-17.96	55.69	27.55	10.02	0.16	LINE	Average
2	0.1557	49.30	-16.39	65.69	39.12	10.02	0.16	LINE	QP
3	0.1659	36.36	-18.80	55.16	26.17	10.02	0.17	LINE	Average
4	0.1659	47.22	-17.94	65.16	37.03	10.02	0.17	LINE	QP
5	0.2117	35.29	-17.85	53.14	25.19	9.92	0.18	LINE	Average
6	0.2117	43.21	-19.93	63.14	33.11	9.92	0.18	LINE	QP
7	0.3035	37.49	-12.66	50.15	27.49	9.92	0.08	LINE	Average
8	0.3035	45.32	-14.83	60.15	35.32	9.92	0.08	LINE	QP
9	0.3303	40.05	-9.39	49.44	30.07	9.92	0.06	LINE	Average
10	0.3303	47.84	-11.60	59.44	37.86	9.92	0.06	LINE	QP
11	0.3558	42.59	-6.24	48.83	32.63	9.92	0.04	LINE	Average
12	0.3558	49.62	-9.21	58.83	39.66	9.92	0.04	LINE	QP
13	1.4718	26.66	-19.34	46.00	16.35	9.95	0.36	LINE	Average
14	1.4718	33.28	-22.72	56.00	22.97	9.95	0.36	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.)

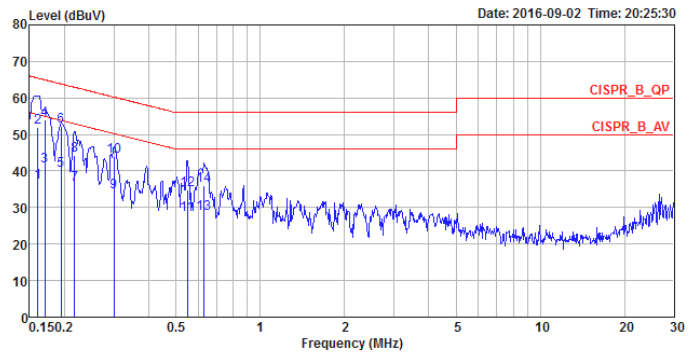
AC Power-line Conducted Emissions Result			
Operating Mode	5	**Power Phase**	Neutral
Operating Function	CTX 5GHz with Adapter 4		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1616	37.71	-17.67	55.38	27.52	10.02	0.17	NEUTRAL	Average
2	0.1616	52.70	-12.68	65.38	42.51	10.02	0.17	NEUTRAL	QP
3	0.1924	35.65	-18.28	53.93	25.54	9.92	0.19	NEUTRAL	Average
4	0.1924	51.75	-12.18	63.93	41.64	9.92	0.19	NEUTRAL	QP
5	0.2050	32.82	-20.58	53.40	22.72	9.92	0.18	NEUTRAL	Average
6	0.2050	44.93	-18.47	63.40	34.83	9.92	0.18	NEUTRAL	QP
7	0.2232	32.99	-19.71	52.70	22.91	9.92	0.16	NEUTRAL	Average
8	0.2232	40.49	-22.21	62.70	30.41	9.92	0.16	NEUTRAL	QP
9	0.3035	34.47	-15.68	50.15	24.47	9.92	0.08	NEUTRAL	Average
10	0.3035	43.26	-16.89	60.15	33.26	9.92	0.08	NEUTRAL	QP
11	0.6406	35.07	-10.93	46.00	24.76	9.93	0.38	NEUTRAL	Average
12	0.6406	40.26	-15.74	56.00	29.95	9.93	0.38	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	5	**Power Phase**	Line
Operating Function	CTX 5GHz with Adapter 4		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1607	37.00	-18.43	55.43	26.81	10.02	0.17	LINE	Average
2	0.1607	52.10	-13.33	65.43	41.91	10.02	0.17	LINE	QP
3	0.1703	41.22	-13.72	54.94	31.03	10.02	0.17	LINE	Average
4	0.1703	54.06	-10.88	64.94	43.87	10.02	0.17	LINE	QP
5	0.1945	40.04	-13.80	53.84	29.93	9.92	0.19	LINE	Average
6	0.1945	52.21	-11.63	63.84	42.10	9.92	0.19	LINE	QP
7	0.2174	36.30	-16.62	52.92	26.21	9.92	0.17	LINE	Average
8	0.2174	44.37	-18.55	62.92	34.28	9.92	0.17	LINE	QP
9	0.3003	34.32	-15.92	50.24	24.31	9.92	0.09	LINE	Average
10	0.3003	44.05	-16.19	60.24	34.04	9.92	0.09	LINE	QP
11	0.5493	27.98	-18.02	46.00	17.79	9.93	0.26	LINE	Average
12	0.5493	34.82	-21.18	56.00	24.63	9.93	0.26	LINE	QP
13	0.6271	28.32	-17.68	46.00	18.02	9.93	0.37	LINE	Average
14	0.6271	35.95	-20.05	56.00	25.65	9.93	0.37	LINE	QP

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

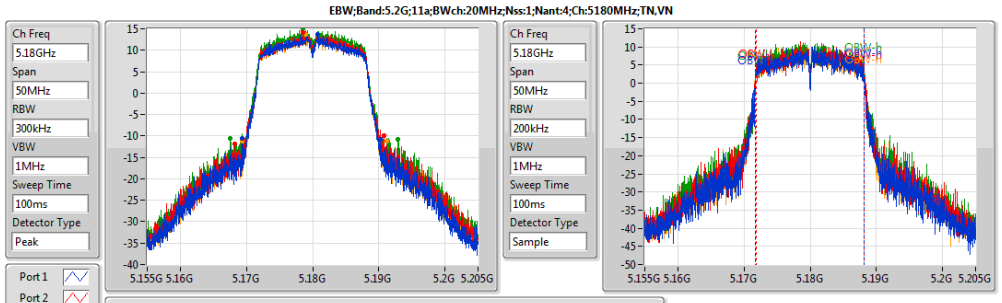
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.2G;11a;Nss1;Ntx4	25.375M	16.442M	16M4D1D	19.725M	16.342M
5.8G;11a;Nss1;Ntx4	16.375M	16.442M	16M4D1D	16.3M	16.367M
5.2G;VHT20;Nss1,(M0);Ntx4	24.25M	17.591M	17M6D1D	20.575M	17.541M
5.8G;VHT20;Nss1,(M0);Ntx4	17.6M	17.616M	17M6D1D	17.525M	17.541M
5.2G;VHT40;Nss1,(M0);Ntx4	61.85M	36.132M	36M1D1D	41M	35.982M
5.8G;VHT40;Nss1,(M0);Ntx4	36.35M	36.082M	36M1D1D	36.05M	35.932M
5.2G;VHT80;Nss1,(M0);Ntx4	81.7M	75.562M	75M6D1D	81.1M	75.362M
5.8G;VHT80;Nss1,(M0);Ntx4	76.4M	75.862M	75M9D1D	76.4M	75.562M
5.2G;VHT20,BF;Nss1,(M0);Ntx4	23.575M	17.616M	17M6D1D	20.4M	17.566M
5.8G;VHT20,BF;Nss1,(M0);Ntx4	17.625M	17.616M	17M6D1D	17.525M	17.566M
5.2G;VHT40,BF;Nss1,(M0);Ntx4	45.95M	36.132M	36M1D1D	40.6M	35.932M
5.8G;VHT40,BF;Nss1,(M0);Ntx4	36.35M	36.132M	36M1D1D	36.05M	35.932M
5.2G;VHT80,BF;Nss1,(M0);Ntx4	81.6M	75.562M	75M6D1D	80.9M	75.362M
5.8G;VHT80,BF;Nss1,(M0);Ntx4	76.4M	76.062M	76M1D1D	76.4M	75.862M

Result

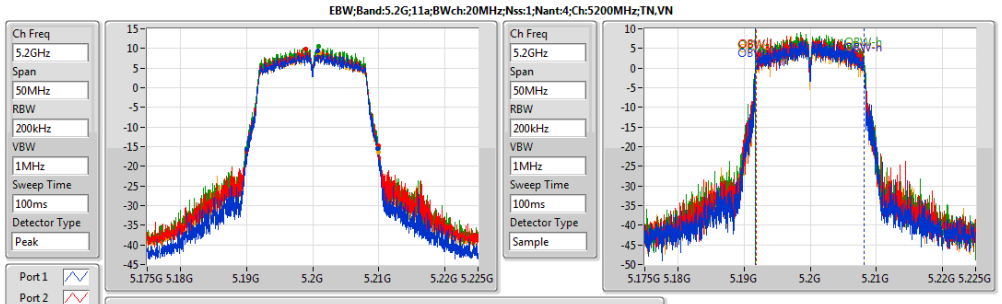
Mode	Result	Limit	P1-N dB (Hz)	P1-OBW (Hz)	P2-N dB (Hz)	P2-OBW (Hz)	P3-N dB (Hz)	P3-OBW (Hz)	P4-N dB (Hz)	P4-OBW (Hz)
5.2G;11a;Nss1;Ntx4;5180;TN,VN	Pass	Inf	20.9M	16.392M	22.6M	16.392M	25.375M	16.392M	21.95M	16.442M
5.2G;11a;Nss1;Ntx4;5200;TN,VN	Pass	Inf	19.825M	16.392M	19.975M	16.367M	19.95M	16.417M	19.95M	16.342M
5.2G;11a;Nss1;Ntx4;5240;TN,VN	Pass	Inf	19.875M	16.442M	19.85M	16.417M	19.725M	16.392M	19.95M	16.367M
5.8G;11a;Nss1;Ntx4;5745;TN,VN	Pass	500k	16.35M	16.367M	16.325M	16.367M	16.3M	16.367M	16.325M	16.367M
5.8G;11a;Nss1;Ntx4;5785;TN,VN	Pass	500k	16.3M	16.392M	16.325M	16.367M	16.325M	16.367M	16.35M	16.392M
5.8G;11a;Nss1;Ntx4;5825;TN,VN	Pass	500k	16.35M	16.392M	16.375M	16.367M	16.3M	16.417M	16.325M	16.442M
5.2G;VHT20;Nss1,(M0);Ntx4;5180;TN,VN	Pass	Inf	24.25M	17.591M	23M	17.591M	22.525M	17.541M	23.975M	17.591M
5.2G;VHT20;Nss1,(M0);Ntx4;5200;TN,VN	Pass	Inf	22.35M	17.591M	23.175M	17.566M	22.1M	17.591M	22.975M	17.566M
5.2G;VHT20;Nss1,(M0);Ntx4;5240;TN,VN	Pass	Inf	20.8M	17.541M	21M	17.566M	21.375M	17.566M	20.575M	17.566M
5.8G;VHT20;Nss1,(M0);Ntx4;5745;TN,VN	Pass	500k	17.55M	17.591M	17.525M	17.541M	17.575M	17.541M	17.525M	17.541M
5.8G;VHT20;Nss1,(M0);Ntx4;5785;TN,VN	Pass	500k	17.575M	17.541M	17.575M	17.566M	17.575M	17.591M	17.55M	17.541M
5.8G;VHT20;Nss1,(M0);Ntx4;5825;TN,VN	Pass	500k	17.575M	17.591M	17.6M	17.591M	17.575M	17.591M	17.575M	17.616M
5.2G;VHT40;Nss1,(M0);Ntx4;5190;TN,VN	Pass	Inf	41M	36.032M	41M	36.032M	41.1M	35.982M	46.25M	35.982M
5.2G;VHT40;Nss1,(M0);Ntx4;5230;TN,VN	Pass	Inf	42.8M	35.982M	60.05M	36.032M	61.85M	36.032M	45.9M	36.132M
5.8G;VHT40;Nss1,(M0);Ntx4;5755;TN,VN	Pass	500k	36.3M	36.032M	36.3M	35.932M	36.35M	36.082M	36.3M	35.982M
5.8G;VHT40;Nss1,(M0);Ntx4;5795;TN,VN	Pass	500k	36.05M	35.932M	36.3M	35.932M	36.3M	36.082M	36.3M	36.032M
5.2G;VHT80;Nss1,(M0);Ntx4;5210;TN,VN	Pass	Inf	81.1M	75.362M	81.7M	75.362M	81.4M	75.562M	81.1M	75.462M
5.8G;VHT80;Nss1,(M0);Ntx4;5775;TN,VN	Pass	500k	76.4M	75.562M	76.4M	75.662M	76.4M	75.562M	76.4M	75.862M
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5180;TN,VN	Pass	Inf	20.525M	17.591M	21.625M	17.591M	20.75M	17.591M	20.475M	17.616M
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5200;TN,VN	Pass	Inf	20.7M	17.566M	22.45M	17.566M	22.425M	17.616M	20.675M	17.591M
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5240;TN,VN	Pass	Inf	20.4M	17.566M	20.5M	17.566M	23.575M	17.566M	20.575M	17.566M
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5745;TN,VN	Pass	500k	17.625M	17.616M	17.575M	17.566M	17.575M	17.566M	17.6M	17.566M
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5785;TN,VN	Pass	500k	17.6M	17.591M	17.575M	17.591M	17.55M	17.566M	17.525M	17.566M
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5825;TN,VN	Pass	500k	17.55M	17.591M	17.575M	17.591M	17.6M	17.591M	17.6M	17.616M
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5190;TN,VN	Pass	Inf	40.8M	35.982M	41.05M	35.932M	40.9M	35.932M	40.95M	35.982M
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5230;TN,VN	Pass	Inf	40.6M	35.982M	41.1M	36.132M	45.95M	35.982M	40.75M	36.032M
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5755;TN,VN	Pass	500k	36.05M	36.032M	36.3M	35.982M	36.35M	36.082M	36.3M	36.032M
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5795;TN,VN	Pass	500k	36.3M	35.932M	36.3M	36.132M	36.3M	36.032M	36.3M	36.082M
5.2G;VHT80,BF;Nss1,(M0);Ntx4;5210;TN,VN	Pass	Inf	80.9M	75.362M	81M	75.562M	81.6M	75.462M	81.4M	75.462M
5.8G;VHT80,BF;Nss1,(M0);Ntx4;5775;TN,VN	Pass	500k	76.4M	75.962M	76.4M	76.062M	76.4M	75.862M	76.4M	75.962M

EBW;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:4;Ch:5180MHz;TN,VN



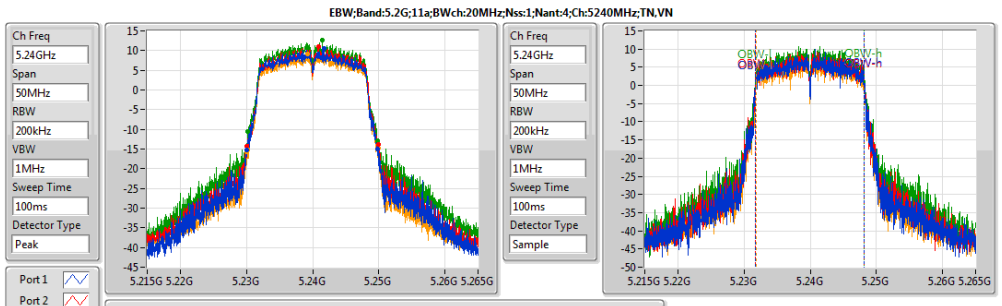
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.9M	5.1694G	5.1903G	16.392M	5.171779G	5.188171G	Inf	1
22.6M	5.168175G	5.190775G	16.392M	5.171804G	5.188196G	Inf	2
25.375M	5.167575G	5.19295G	16.392M	5.171779G	5.188171G	Inf	3
21.95M	5.169325G	5.191275G	16.442M	5.171754G	5.188196G	Inf	4

EBW;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:4;Ch:5200MHz;TN,VN



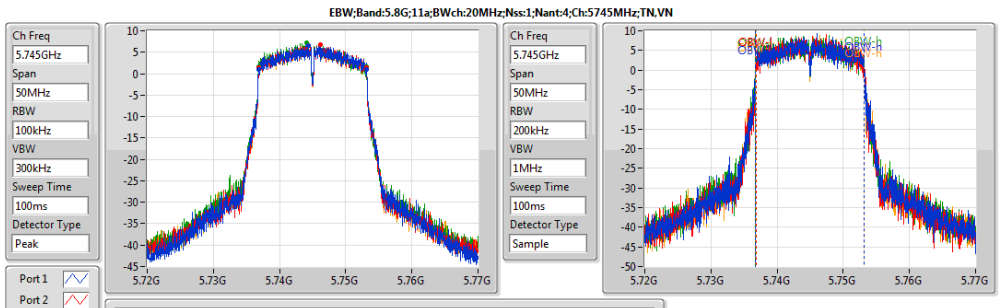
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.825M	5.19005G	5.209875G	16.392M	5.191779G	5.208171G	Inf	1
19.975M	5.19G	5.209975G	16.367M	5.191804G	5.208171G	Inf	2
19.95M	5.189975G	5.209925G	16.417M	5.191779G	5.208196G	Inf	3
19.95M	5.19G	5.20995G	16.342M	5.191804G	5.208146G	Inf	4

EBW;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:4;Ch:5240MHz;TN,VN



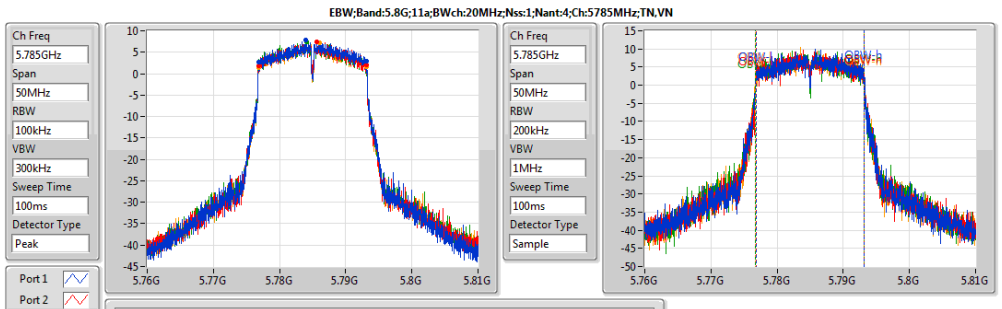
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.875M	5.229975G	5.24985G	16.442M	5.231754G	5.248196G	Inf	1
19.85M	5.2301G	5.24995G	16.417M	5.231779G	5.248196G	Inf	2
19.725M	5.23015G	5.249875G	16.392M	5.231779G	5.248171G	Inf	3
19.95M	5.23G	5.24995G	16.367M	5.231804G	5.248171G	Inf	4

EBW;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:4;Ch:5745MHz;TN,VN



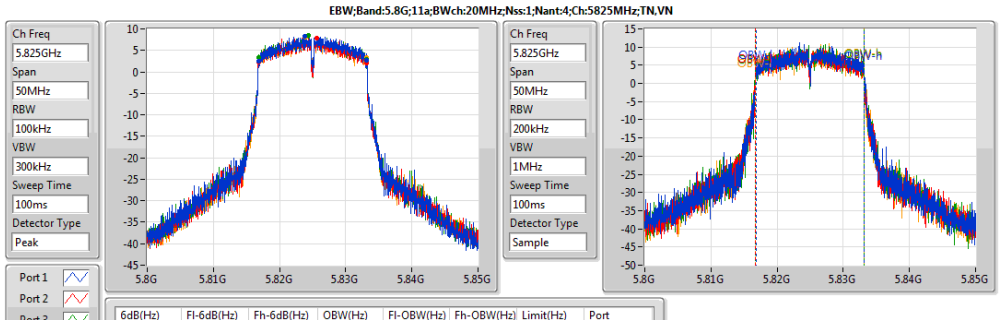
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.736825G	5.753175G	16.367M	5.736779G	5.753146G	500k	1
16.325M	5.736825G	5.75315G	16.367M	5.736804G	5.753171G	500k	2
16.3M	5.736825G	5.753125G	16.367M	5.736779G	5.753146G	500k	3
16.325M	5.736825G	5.75315G	16.367M	5.736779G	5.753146G	500k	4

EBW;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:4;Ch:5785MHz;TN,VN



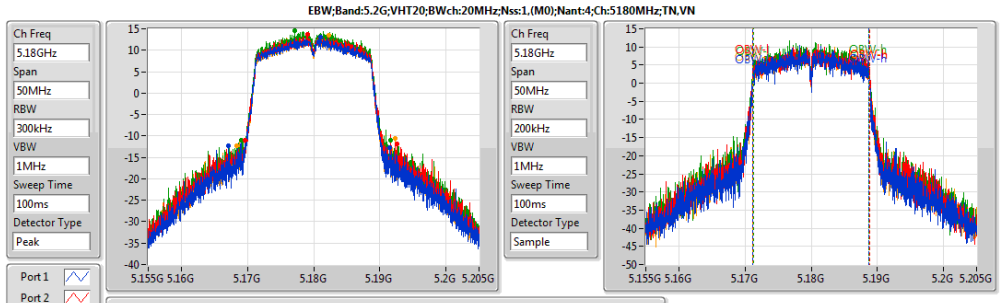
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	5.77685G	5.79315G	16.392M	5.776804G	5.793196G	500k	1
16.325M	5.776825G	5.79315G	16.367M	5.776804G	5.793171G	500k	2
16.325M	5.776825G	5.79315G	16.367M	5.776779G	5.793146G	500k	3
16.35M	5.776825G	5.793175G	16.392M	5.776779G	5.793171G	500k	4

EBW;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:4;Ch:5825MHz;TN,VN



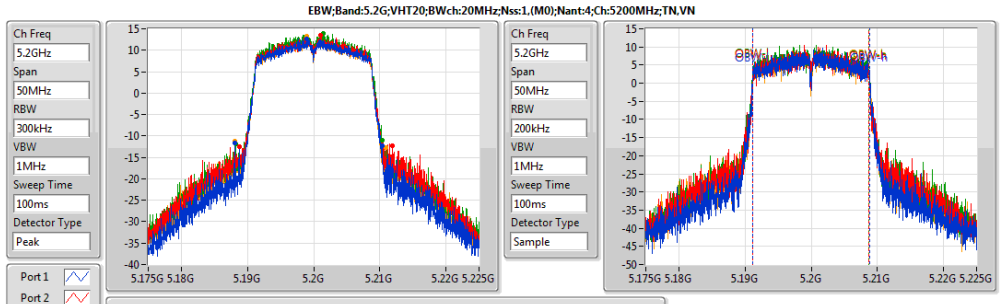
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.816825G	5.833175G	16.392M	5.816804G	5.833196G	500k	1
16.375M	5.8168G	5.833175G	16.367M	5.816779G	5.833146G	500k	2
16.3M	5.81685G	5.83315G	16.417M	5.816754G	5.833171G	500k	3
16.325M	5.816825G	5.83315G	16.442M	5.816729G	5.833171G	500k	4

EBW;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5180MHz;TN,VN



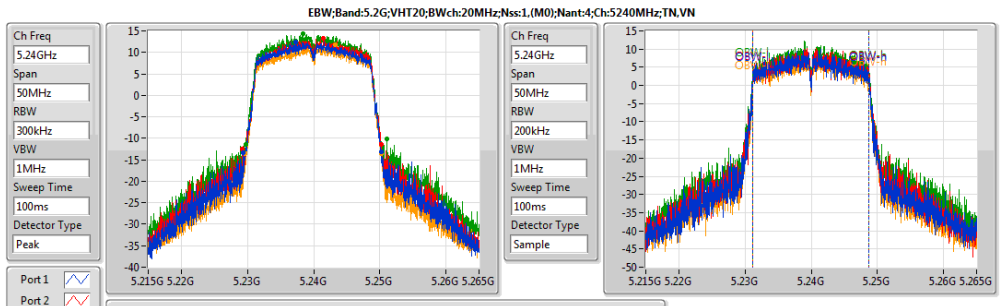
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.25M	5.167175G	5.191425G	17.591M	5.171179G	5.188771G	Inf	1
23M	5.16965G	5.19265G	17.591M	5.171204G	5.188796G	Inf	2
22.525M	5.1691G	5.191625G	17.541M	5.171229G	5.188771G	Inf	3
23.975M	5.168325G	5.1923G	17.591M	5.171204G	5.188796G	Inf	4

EBW;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5200MHz;TN,VN



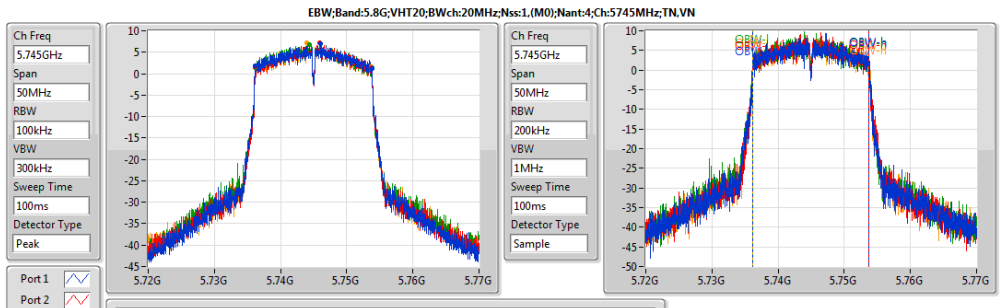
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.35M	5.188025G	5.210375G	17.591M	5.191204G	5.208796G	Inf	1
23.175M	5.1888G	5.211975G	17.566M	5.191204G	5.208771G	Inf	2
22.1M	5.18825G	5.21035G	17.591M	5.191179G	5.208771G	Inf	3
22.975M	5.188025G	5.211G	17.566M	5.191204G	5.208771G	Inf	4

EBW;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5240MHz;TN,VN



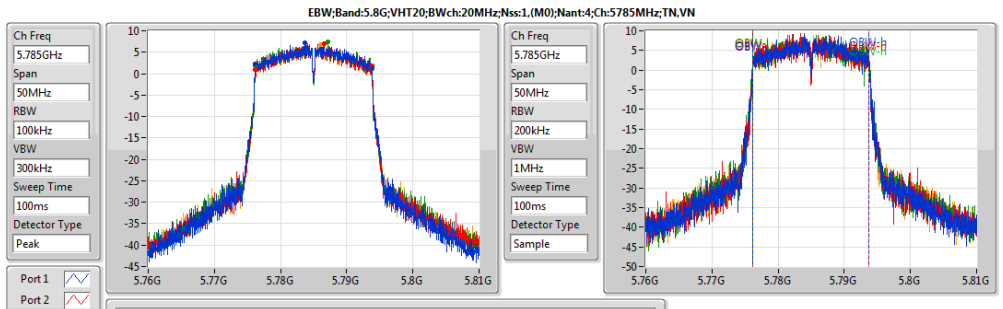
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.8M	5.2294G	5.2502G	17.541M	5.231204G	5.248746G	Inf	1
21M	5.229275G	5.250275G	17.566M	5.231204G	5.248771G	Inf	2
21.375M	5.229725G	5.2511G	17.566M	5.231204G	5.248771G	Inf	3
20.575M	5.22965G	5.250225G	17.566M	5.231204G	5.248771G	Inf	4

EBW;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5745MHz;TN,VN



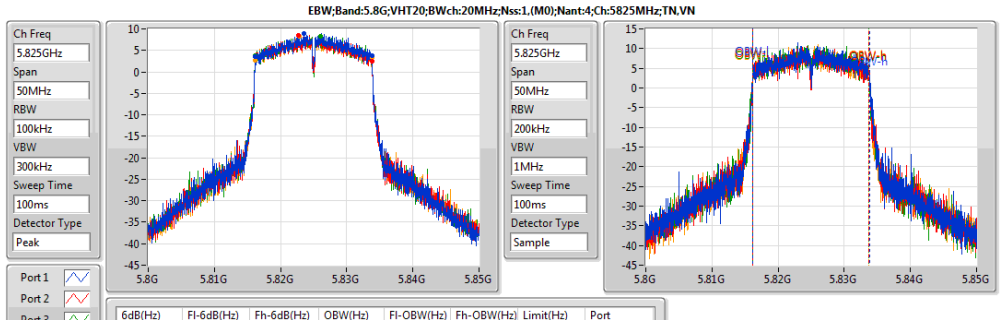
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.736225G	5.753775G	17.591M	5.736179G	5.753771G	500k	1
17.525M	5.736225G	5.75375G	17.541M	5.736204G	5.753746G	500k	2
17.575M	5.7362G	5.753775G	17.541M	5.736179G	5.753721G	500k	3
17.525M	5.736225G	5.75375G	17.541M	5.736204G	5.753746G	500k	4

EBW;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5785MHz;TN,VN



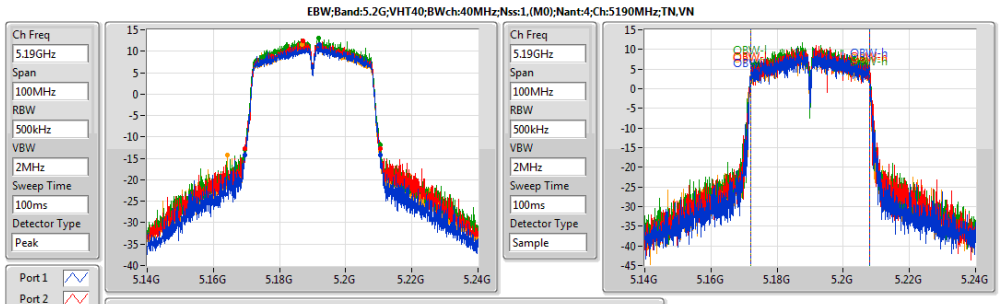
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	5.776225G	5.7938G	17.541M	5.776204G	5.793746G	500k	1
17.575M	5.7762G	5.793775G	17.566M	5.776179G	5.793746G	500k	2
17.575M	5.7762G	5.793775G	17.591M	5.776179G	5.793771G	500k	3
17.55M	5.776225G	5.793775G	17.541M	5.776204G	5.793746G	500k	4

EBW;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5825MHz;TN,VN



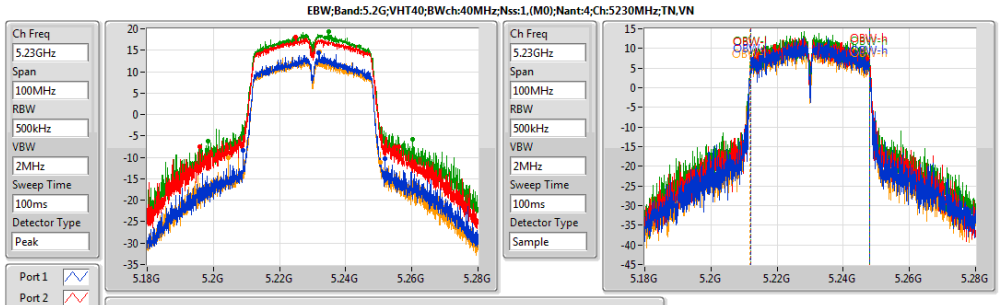
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	5.8162G	5.833775G	17.591M	5.816204G	5.833796G	500k	1
17.6M	5.8162G	5.8338G	17.591M	5.816179G	5.833771G	500k	2
17.575M	5.8162G	5.833775G	17.591M	5.816179G	5.833771G	500k	3
17.575M	5.8162G	5.833775G	17.616M	5.816154G	5.833771G	500k	4

EBW;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5190MHz;TN,VN



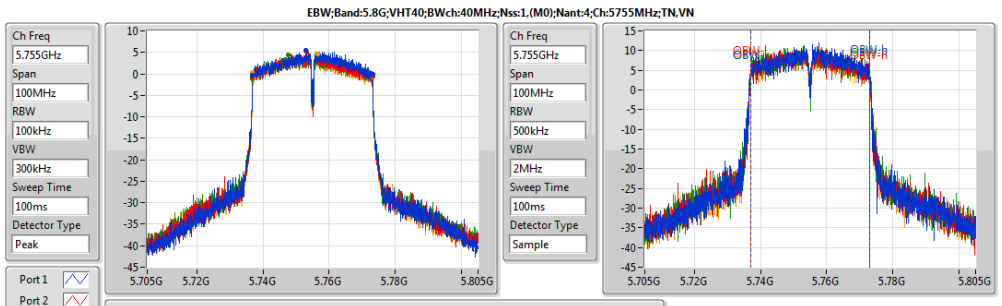
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41M	5.16945G	5.21045G	36.032M	5.171959G	5.207991G	Inf	1
41M	5.16945G	5.21045G	36.032M	5.172009G	5.208041G	Inf	2
41.1M	5.1694G	5.2105G	35.982M	5.171959G	5.207941G	Inf	3
46.25M	5.16415G	5.2104G	35.982M	5.171959G	5.207941G	Inf	4

EBW;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5230MHz;TN,VN



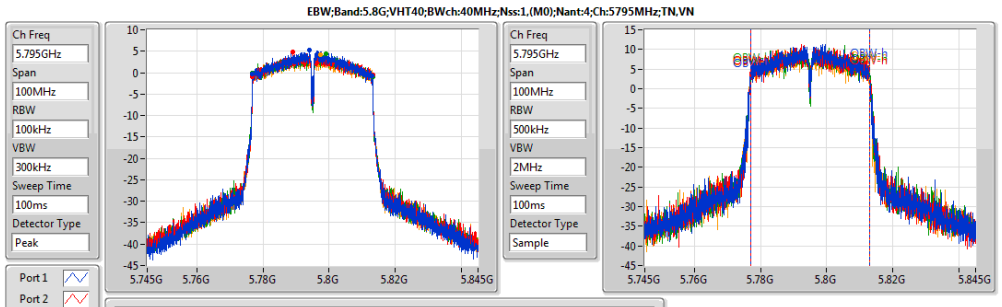
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.8M	5.20895G	5.25175G	35.982M	5.211959G	5.247941G	Inf	1
60.05M	5.19595G	5.256G	36.032M	5.212009G	5.248041G	Inf	2
61.85M	5.19845G	5.2603G	36.032M	5.211959G	5.247991G	Inf	3
45.9M	5.20455G	5.25045G	36.132M	5.211859G	5.247991G	Inf	4

EBW;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5755MHz;TN,VN



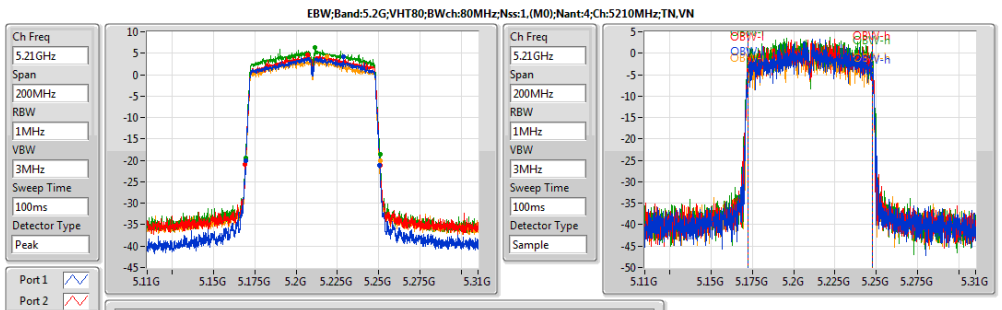
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.73685G	5.77315G	36.032M	5.736959G	5.772991G	500k	1
36.3M	5.73685G	5.77315G	35.932M	5.737009G	5.772941G	500k	2
36.35M	5.7368G	5.77315G	36.082M	5.736909G	5.772991G	500k	3
36.3M	5.73685G	5.77315G	35.982M	5.736959G	5.772941G	500k	4

EBW;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5795MHz;TN,VN



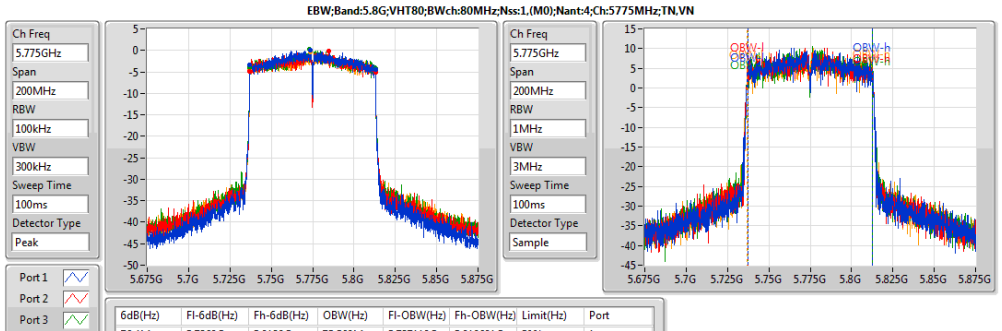
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.05M	5.77685G	5.8129G	35.932M	5.777009G	5.812941G	500k	1
36.3M	5.77685G	5.81315G	35.932M	5.777009G	5.812941G	500k	2
36.3M	5.77685G	5.81315G	36.082M	5.776959G	5.813041G	500k	3
36.3M	5.77685G	5.81315G	36.032M	5.776959G	5.812991G	500k	4

EBW;Band:5.2G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:5210MHz;TN,VN



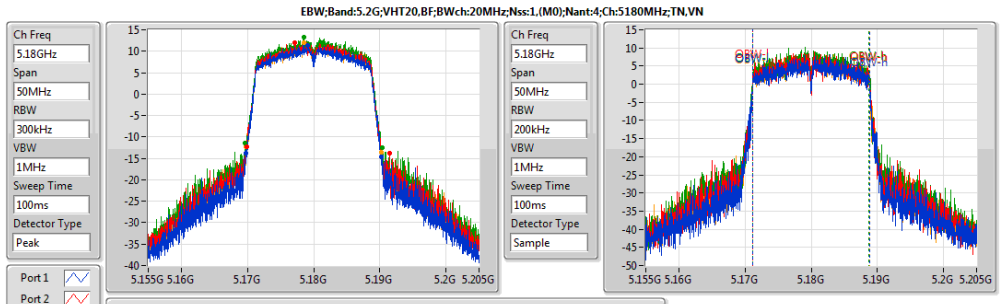
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.1M	5.1695G	5.2506G	75.362M	5.172319G	5.247681G	Inf	1
81.7M	5.1692G	5.2509G	75.362M	5.172319G	5.247681G	Inf	2
81.4M	5.1694G	5.2508G	75.562M	5.172219G	5.247781G	Inf	3
81.1M	5.1696G	5.2507G	75.462M	5.172319G	5.247781G	Inf	4

EBW;Band:5.8G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:5775MHz;TN,VN



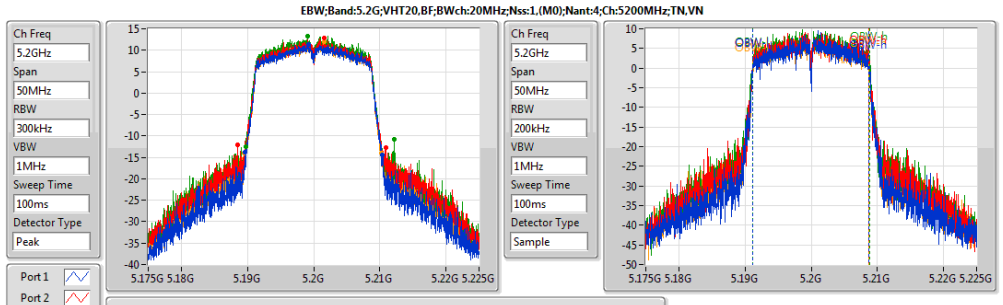
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.4M	5.7368G	5.8132G	75.562M	5.737119G	5.812681G	500k	1
76.4M	5.7368G	5.8132G	75.662M	5.737119G	5.812781G	500k	2
76.4M	5.7368G	5.8132G	75.562M	5.737119G	5.812681G	500k	3
76.4M	5.7368G	5.8132G	75.862M	5.737019G	5.812881G	500k	4

EBW;Band:5.2G;VHT20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5180MHz;TN,VN



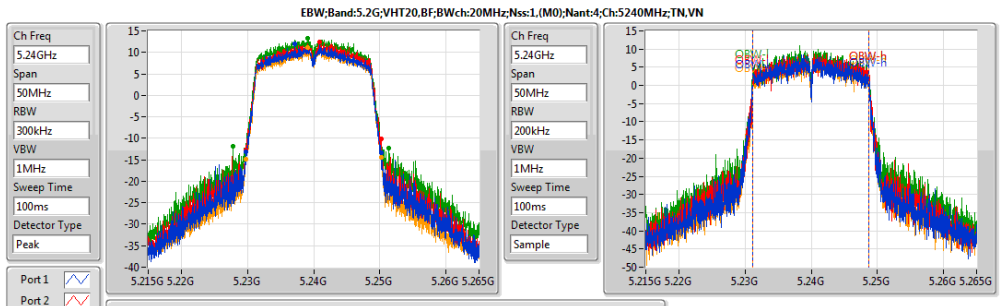
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.525M	5.16975G	5.190275G	17.591M	5.171204G	5.188796G	Inf	1
21.625M	5.16985G	5.191475G	17.591M	5.171204G	5.188796G	Inf	2
20.75M	5.169625G	5.190375G	17.591M	5.171179G	5.188771G	Inf	3
20.475M	5.169775G	5.19025G	17.616M	5.171179G	5.188796G	Inf	4

EBW;Band:5.2G;VHT20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5200MHz;TN,VN



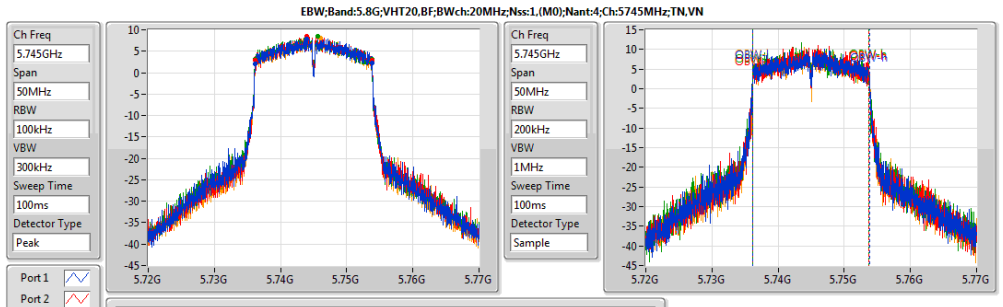
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.7M	5.18965G	5.21035G	17.566M	5.191204G	5.208771G	Inf	1
22.45M	5.1885G	5.21095G	17.566M	5.191204G	5.208771G	Inf	2
22.425M	5.1897G	5.212125G	17.616M	5.191179G	5.208796G	Inf	3
20.675M	5.18955G	5.210225G	17.591M	5.191179G	5.208771G	Inf	4

EBW;Band:5.2G;VHT20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5240MHz;TN,VN



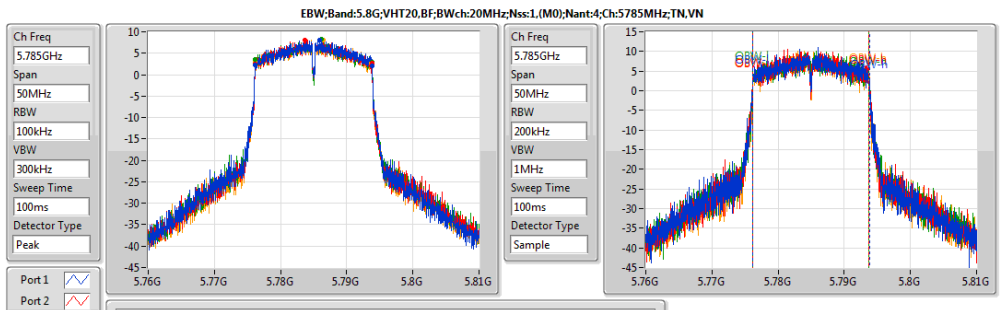
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.4M	5.229825G	5.250225G	17.566M	5.231179G	5.248746G	Inf	1
20.5M	5.22975G	5.25025G	17.566M	5.231204G	5.248771G	Inf	2
23.575M	5.227825G	5.2514G	17.566M	5.231204G	5.248771G	Inf	3
20.575M	5.2297G	5.250275G	17.566M	5.231204G	5.248771G	Inf	4

EBW;Band:5.8G;VHT20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5745MHz;TN,VN



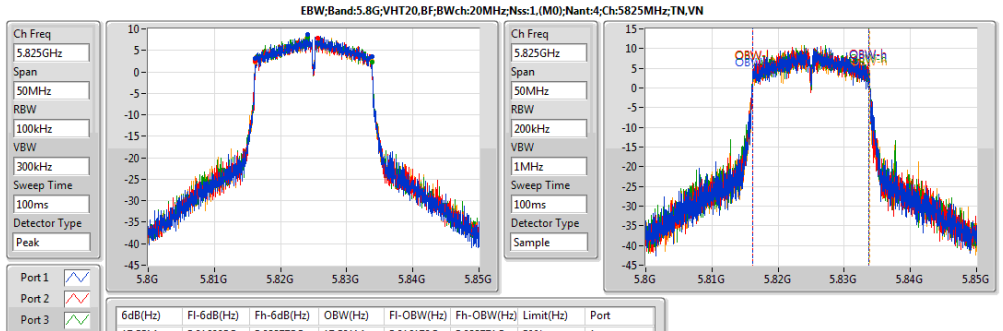
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.625M	5.736175G	5.7538G	17.616M	5.736179G	5.753796G	500k	1
17.575M	5.7362G	5.753775G	17.566M	5.736179G	5.753746G	500k	2
17.575M	5.7362G	5.753775G	17.566M	5.736179G	5.753746G	500k	3
17.6M	5.7362G	5.7538G	17.566M	5.736204G	5.753771G	500k	4

EBW;Band:5.8G;VHT20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5785MHz;TN,VN



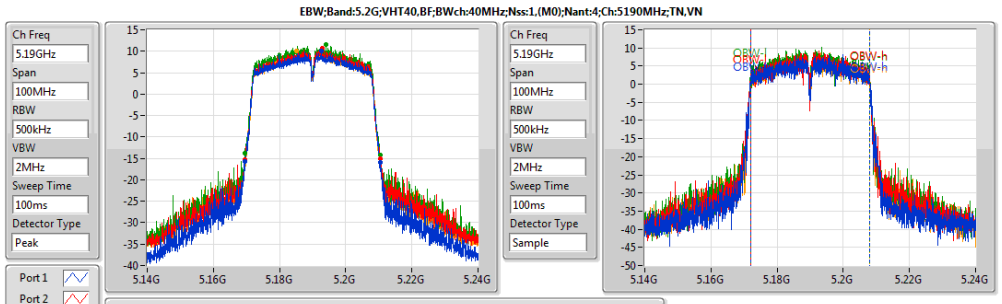
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.6M	5.7762G	5.7938G	17.591M	5.776204G	5.793796G	500k	1
17.575M	5.7762G	5.793775G	17.591M	5.776179G	5.793771G	500k	2
17.55M	5.776225G	5.793775G	17.566M	5.776179G	5.793746G	500k	3
17.525M	5.776225G	5.79375G	17.566M	5.776204G	5.793771G	500k	4

EBW;Band:5.8G;VHT20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5825MHz;TN,VN



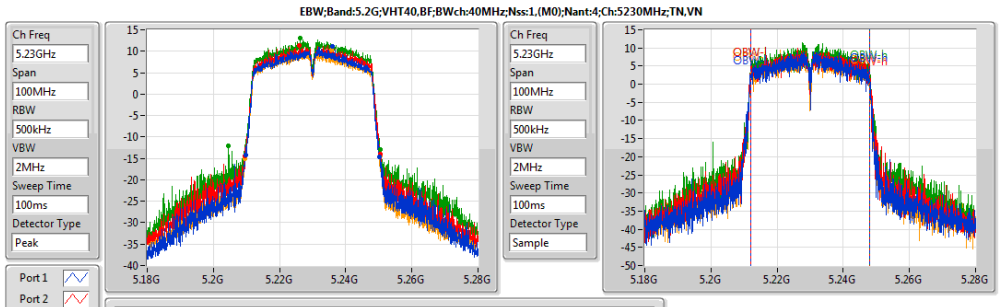
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.816225G	5.833775G	17.591M	5.816179G	5.833771G	500k	1
17.575M	5.8162G	5.833775G	17.591M	5.816179G	5.833771G	500k	2
17.6M	5.8162G	5.8338G	17.591M	5.816179G	5.833771G	500k	3
17.6M	5.8162G	5.8338G	17.616M	5.816179G	5.833796G	500k	4

EBW;Band:5.2G;VHT40,BF;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5190MHz;TN,VN



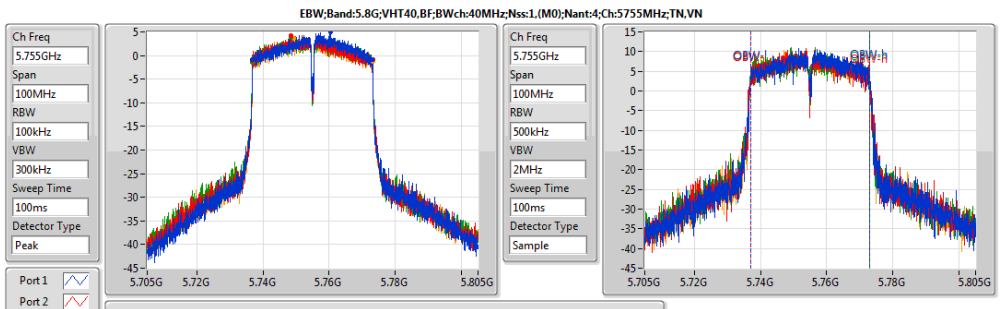
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.8M	5.1696G	5.2104G	35.982M	5.172009G	5.207991G	Inf	1
41.05M	5.1695G	5.21055G	35.932M	5.172009G	5.207941G	Inf	2
40.9M	5.16955G	5.21045G	35.932M	5.172009G	5.207941G	Inf	3
40.95M	5.1695G	5.21045G	35.982M	5.171959G	5.207941G	Inf	4

EBW;Band:5.2G;VHT40,BF;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5230MHz;TN,VN



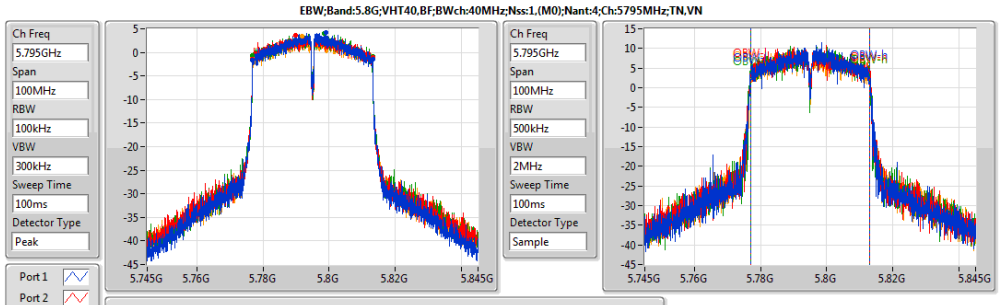
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.6M	5.2097G	5.2503G	35.982M	5.211959G	5.247941G	Inf	1
41.1M	5.2094G	5.2505G	36.132M	5.211909G	5.248041G	Inf	2
45.95M	5.20465G	5.2506G	35.982M	5.211959G	5.247941G	Inf	3
40.75M	5.20965G	5.2504G	36.032M	5.211959G	5.247991G	Inf	4

EBW;Band:5.8G;VHT40,BF;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5755MHz;TN,VN



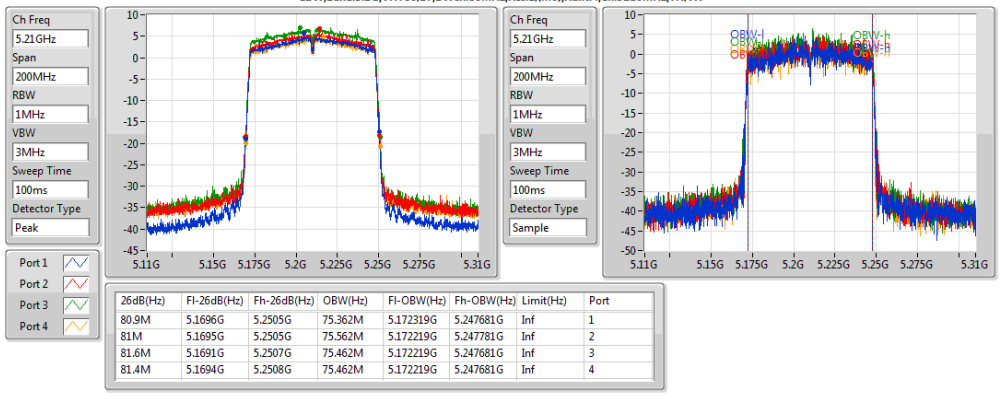
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.05M	5.73685G	5.7729G	36.032M	5.737009G	5.773041G	500k	1
36.3M	5.73685G	5.77315G	35.982M	5.736959G	5.772941G	500k	2
36.35M	5.7368G	5.77315G	36.082M	5.736909G	5.772991G	500k	3
36.3M	5.73685G	5.77315G	36.032M	5.736909G	5.772941G	500k	4

EBW;Band:5.8G;VHT40,BF;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5795MHz;TN,VN



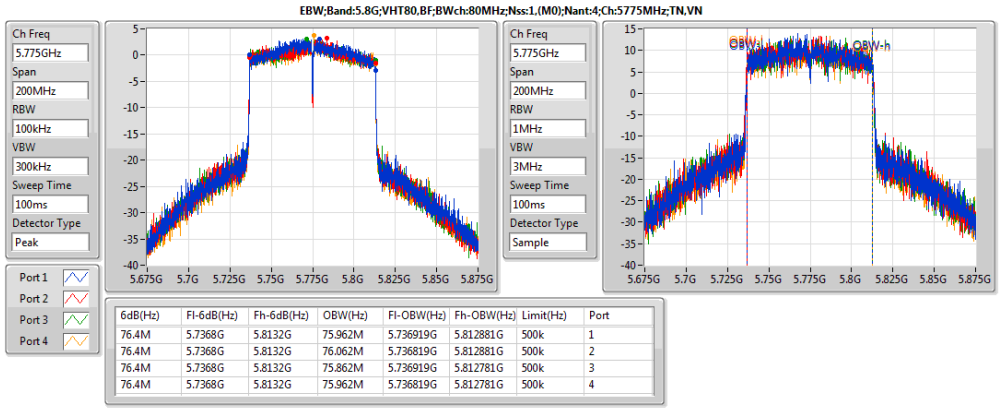
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.77685G	5.81315G	35.932M	5.777009G	5.812941G	500k	1
36.3M	5.77685G	5.81315G	36.132M	5.776909G	5.813041G	500k	2
36.3M	5.77685G	5.81315G	36.032M	5.776909G	5.812941G	500k	3
36.3M	5.77685G	5.81315G	36.082M	5.776959G	5.813041G	500k	4

EBW;Band:5.2G;VHT80,BF;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:5210MHz;TN,VN



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.9M	5.1696G	5.2505G	75.362M	5.172319G	5.247681G	Inf	1
81M	5.1695G	5.2505G	75.562M	5.172219G	5.247781G	Inf	2
81.6M	5.1691G	5.2507G	75.462M	5.172219G	5.247681G	Inf	3
81.4M	5.1694G	5.2508G	75.462M	5.172219G	5.247681G	Inf	4

EBW;Band:5.8G;VHT80,BF;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:5775MHz;TN,VN



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.4M	5.7368G	5.8132G	75.962M	5.736919G	5.812881G	500k	1
76.4M	5.7368G	5.8132G	76.062M	5.736819G	5.812881G	500k	2
76.4M	5.7368G	5.8132G	75.862M	5.736919G	5.812781G	500k	3
76.4M	5.7368G	5.8132G	75.962M	5.736819G	5.812781G	500k	4

Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
5.2G;11a;Nss1;Ntx4	27.39	0.54828	29.79	0.9528
5.8G;11a;Nss1;Ntx4	28.75	0.74989	31.15	1.30317
5.2G;VHT20;Nss1,(M0);Ntx4	27.64	0.58076	30.04	1.00925
5.8G;VHT20;Nss1,(M0);Ntx4	29.27	0.84528	31.67	1.46893
5.2G;VHT40;Nss1,(M0);Ntx4	28.99	0.7925	31.39	1.37721
5.8G;VHT40;Nss1,(M0);Ntx4	28.85	0.76736	31.25	1.33352
5.2G;VHT80;Nss1,(M0);Ntx4	20.46	0.11117	22.86	0.1932
5.8G;VHT80;Nss1,(M0);Ntx4	27.14	0.51761	29.54	0.8995
5.2G;VHT20,BF;Nss1,(M0);Ntx4	27.64	0.58076	35.98	3.96278
5.8G;VHT20,BF;Nss1,(M0);Ntx4	27.39	0.54828	35.74	3.74973
5.2G;VHT40,BF;Nss1,(M0);Ntx4	27.26	0.53211	35.60	3.63078
5.8G;VHT40,BF;Nss1,(M0);Ntx4	27.19	0.5236	35.53	3.57273
5.2G;VHT80,BF;Nss1,(M0);Ntx4	20.46	0.11117	28.81	0.76033
5.8G;VHT80,BF;Nss1,(M0);Ntx4	27.14	0.51761	35.49	3.53997

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;TN,VN	Pass	2.40	29.32	36.00	26.92	30.00	20.18	20.56	20.77	21.89
5.2G;11a;Nss1;Ntx4;5200;TN,VN	Pass	2.40	28.74	36.00	26.34	30.00	19.77	20.16	20.22	21.02
5.2G;11a;Nss1;Ntx4;5240;TN,VN	Pass	2.40	29.79	36.00	27.39	30.00	20.73	20.51	21.48	22.49
5.8G;11a;Nss1;Ntx4;5745;TN,VN	Pass	2.40	29.44	36.00	27.04	30.00	20.96	20.52	21.12	21.43
5.8G;11a;Nss1;Ntx4;5785;TN,VN	Pass	2.40	30.27	36.00	27.87	30.00	21.97	21.65	21.92	21.85
5.8G;11a;Nss1;Ntx4;5825;TN,VN	Pass	2.40	31.15	36.00	28.75	30.00	22.63	22.68	22.82	22.77
5.2G;VHT20;Nss1,(M0);Ntx4;5180;TN,VN	Pass	2.40	30.04	36.00	27.64	30.00	20.96	21.44	21.52	22.42
5.2G;VHT20;Nss1,(M0);Ntx4;5200;TN,VN	Pass	2.40	29.76	36.00	27.36	30.00	20.66	21.08	21.42	22.06
5.2G;VHT20;Nss1,(M0);Ntx4;5240;TN,VN	Pass	2.40	29.84	36.00	27.44	30.00	21	20.63	21.48	22.37
5.8G;VHT20;Nss1,(M0);Ntx4;5745;TN,VN	Pass	2.40	29.72	36.00	27.32	30.00	21.43	20.92	21.31	21.53
5.8G;VHT20;Nss1,(M0);Ntx4;5785;TN,VN	Pass	2.40	30.10	36.00	27.7	30.00	21.59	21.44	21.64	22.02
5.8G;VHT20;Nss1,(M0);Ntx4;5825;TN,VN	Pass	2.40	31.67	36.00	29.27	30.00	23.46	23.08	23.37	23.06
5.2G;VHT40;Nss1,(M0);Ntx4;5190;TN,VN	Pass	2.40	30.16	36.00	27.76	30.00	21.13	21.61	21.81	22.33
5.2G;VHT40;Nss1,(M0);Ntx4;5230;TN,VN	Pass	2.40	31.39	36.00	28.99	30.00	22.34	23.02	23.08	23.36
5.8G;VHT40;Nss1,(M0);Ntx4;5755;TN,VN	Pass	2.40	31.25	36.00	28.85	30.00	23.18	22.44	22.76	22.89
5.8G;VHT40;Nss1,(M0);Ntx4;5795;TN,VN	Pass	2.40	30.77	36.00	28.37	30.00	22.59	22.09	22.43	22.26
5.2G;VHT80;Nss1,(M0);Ntx4;5210;TN,VN	Pass	2.40	22.86	36.00	20.46	30.00	13.82	13.91	14.48	15.38
5.8G;VHT80;Nss1,(M0);Ntx4;5775;TN,VN	Pass	2.40	29.54	36.00	27.14	30.00	21.44	21.18	20.82	21.02
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5180;TN,VN	Pass	8.35	35.98	36.00	27.64	27.65	20.96	21.44	21.52	22.42
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5200;TN,VN	Pass	8.35	35.71	36.00	27.37	27.65	20.66	20.63	21.48	22.37
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5240;TN,VN	Pass	8.35	35.79	36.00	27.44	27.65	21	20.63	21.48	22.37
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5745;TN,VN	Pass	8.35	35.61	36.00	27.26	27.65	21.25	20.77	21.46	21.44
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5785;TN,VN	Pass	8.35	35.74	36.00	27.39	27.65	21.52	21.14	21.38	21.43
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5825;TN,VN	Pass	8.35	35.53	36.00	27.19	27.65	21.15	21.09	21.28	21.14
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5190;TN,VN	Pass	8.35	34.96	36.00	26.61	27.65	20.32	20.92	21.11	19.91
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5230;TN,VN	Pass	8.35	35.60	36.00	27.26	27.65	20.52	21.03	21.22	22.03
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5755;TN,VN	Pass	8.35	35.52	36.00	27.17	27.65	21.09	20.71	21.21	21.56
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5795;TN,VN	Pass	8.35	35.53	36.00	27.19	27.65	21.04	20.91	21.24	21.46
5.2G;VHT80,BF;Nss1,(M0);Ntx4;5210;TN,VN	Pass	8.35	28.81	36.00	20.46	27.65	13.82	13.91	14.48	15.38
5.8G;VHT80,BF;Nss1,(M0);Ntx4;5775;TN,VN	Pass	8.35	35.49	36.00	27.14	27.65	21.44	21.18	20.82	21.02

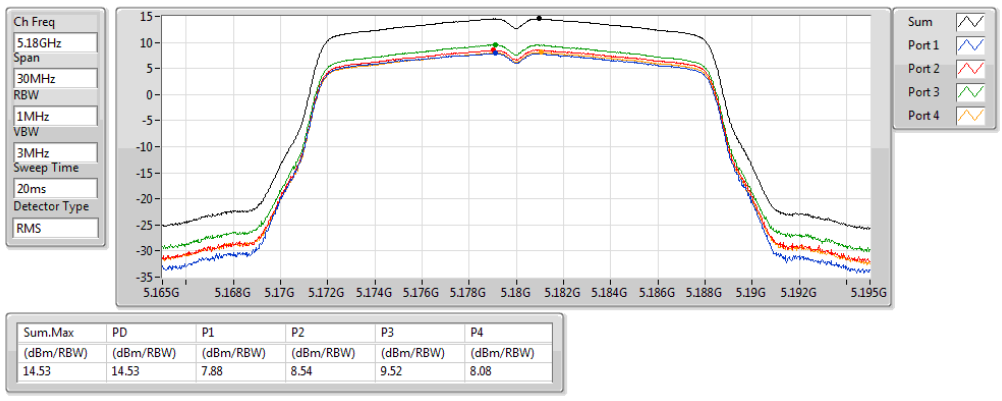
Summary

Mode	PD (dBm/RBW)	EIRP.PD (dBm/RBW)
5.2G;11a;Nss1;Ntx4	14.53	22.88
5.8G;11a;Nss1;Ntx4	15.11	23.46
5.2G;VHT20;Nss1,(M0);Ntx4	14.55	22.90
5.8G;VHT20;Nss1,(M0);Ntx4	16.42	24.77
5.2G;VHT40;Nss1,(M0);Ntx4	12.35	20.69
5.8G;VHT40;Nss1,(M0);Ntx4	12.39	20.73
5.2G;VHT80;Nss1,(M0);Ntx4	1.00	9.35
5.8G;VHT80;Nss1,(M0);Ntx4	7.74	16.09
5.2G;VHT20,BF;Nss1,(M0);Ntx4	14.44	22.78
5.8G;VHT20,BF;Nss1,(M0);Ntx4	14.57	22.91
5.2G;VHT40,BF;Nss1,(M0);Ntx4	11.16	19.51
5.8G;VHT40,BF;Nss1,(M0);Ntx4	10.09	18.43
5.2G;VHT80,BF;Nss1,(M0);Ntx4	0.97	9.31
5.8G;VHT80,BF;Nss1,(M0);Ntx4	8.85	17.20

Result

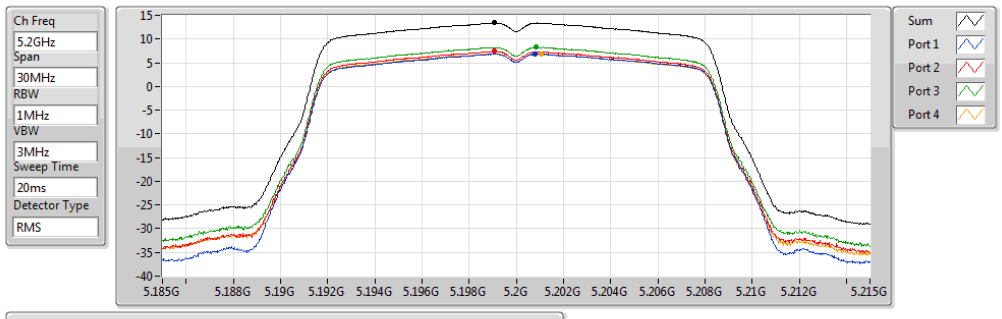
Mode	Result	Meas.RBW (Hz)	Lim.RBW (Hz)	BWCF (dB)	DG (dBi)	Sum.Max (dBm/RBW)	PD (dBm/RBW)	PD.Limit (dBm/RBW)	EIRP.PD (dBm/RBW)	EIRP.PD.Lim (dBm/RBW)	P1 (dBm/RBW)	P2 (dBm/RBW)	P3 (dBm/RBW)	P4 (dBm/RBW)
5.2G;11a;Nss1;Ntx4;5180;TN,VN	Pass	1M	1M	0.00	8.35	14.53	14.53	14.65	22.88	Inf	7.88	8.54	9.52	8.08
5.2G;11a;Nss1;Ntx4;5200;TN,VN	Pass	1M	1M	0.00	8.35	13.39	13.39	14.65	21.74	Inf	6.90	7.41	8.28	6.94
5.2G;11a;Nss1;Ntx4;5240;TN,VN	Pass	1M	1M	0.00	8.35	14.47	14.47	14.65	22.81	Inf	7.97	8.47	9.98	7.13
5.8G;11a;Nss1;Ntx4;5745;TN,VN	Pass	500k	500k	0.00	8.35	13.95	13.95	27.65	22.30	33.65	7.72	8.01	8.22	7.90
5.8G;11a;Nss1;Ntx4;5785;TN,VN	Pass	500k	500k	0.00	8.35	14.29	14.29	27.65	22.63	33.65	7.76	8.70	8.54	8.23
5.8G;11a;Nss1;Ntx4;5825;TN,VN	Pass	500k	500k	0.00	8.35	15.11	15.11	27.65	23.46	33.65	8.80	9.21	9.46	9.11
5.2G;VHT20;Nss1,(M0);Ntx4;5180;TN,VN	Pass	1M	1M	0.00	8.35	14.55	14.55	14.65	22.90	Inf	7.06	8.74	9.74	8.30
5.2G;VHT20;Nss1,(M0);Ntx4;5200;TN,VN	Pass	1M	1M	0.00	8.35	14.01	14.01	14.65	22.36	Inf	6.00	8.44	9.27	7.84
5.2G;VHT20;Nss1,(M0);Ntx4;5240;TN,VN	Pass	1M	1M	0.00	8.35	14.45	14.45	14.65	22.79	Inf	6.62	8.94	10.10	7.38
5.8G;VHT20;Nss1,(M0);Ntx4;5745;TN,VN	Pass	500k	500k	0.00	8.35	13.92	13.92	27.65	22.27	33.65	7.76	8.07	8.29	7.73
5.8G;VHT20;Nss1,(M0);Ntx4;5785;TN,VN	Pass	500k	500k	0.00	8.35	14.36	14.36	27.65	22.70	33.65	7.50	8.88	8.64	8.38
5.8G;VHT20;Nss1,(M0);Ntx4;5825;TN,VN	Pass	500k	500k	0.00	8.35	16.42	16.42	27.65	24.77	33.65	10.70	10.28	10.55	10.28
5.2G;VHT40;Nss1,(M0);Ntx4;5190;TN,VN	Pass	1M	1M	0.00	8.35	11.57	11.57	14.65	19.92	Inf	4.17	5.87	6.61	5.45
5.2G;VHT40;Nss1,(M0);Ntx4;5230;TN,VN	Pass	1M	1M	0.00	8.35	12.35	12.35	14.65	20.69	Inf	5.39	6.57	7.72	5.39
5.8G;VHT40;Nss1,(M0);Ntx4;5755;TN,VN	Pass	500k	500k	0.00	8.35	12.39	12.39	27.65	20.73	33.65	6.86	6.51	6.08	6.19
5.8G;VHT40;Nss1,(M0);Ntx4;5795;TN,VN	Pass	500k	500k	0.00	8.35	12.14	12.14	27.65	20.49	33.65	6.30	6.33	6.23	5.80
5.2G;VHT80;Nss1,(M0);Ntx4;5210;TN,VN	Pass	1M	1M	0.00	8.35	1.00	1.00	14.65	9.35	Inf	-6.13	-4.77	-3.60	-5.91
5.8G;VHT80;Nss1,(M0);Ntx4;5775;TN,VN	Pass	500k	500k	0.00	8.35	7.74	7.74	27.65	16.09	33.65	2.06	1.88	1.97	1.43
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5180;TN,VN	Pass	1M	1M	0.00	8.35	14.08	14.08	14.65	22.42	Inf	7.31	8.11	9.10	7.71
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5200;TN,VN	Pass	1M	1M	0.00	8.35	14.11	14.11	14.65	22.45	Inf	7.48	8.15	8.96	7.77
5.2G;VHT20,BF;Nss1,(M0);Ntx4;5240;TN,VN	Pass	1M	1M	0.00	8.35	14.44	14.44	14.65	22.78	Inf	7.85	8.58	9.71	7.34
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5745;TN,VN	Pass	500k	500k	0.00	8.35	14.57	14.57	27.65	22.91	33.65	8.28	8.73	8.83	8.40
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5785;TN,VN	Pass	500k	500k	0.00	8.35	14.18	14.18	27.65	22.53	33.65	7.68	8.64	8.39	8.11
5.8G;VHT20,BF;Nss1,(M0);Ntx4;5825;TN,VN	Pass	500k	500k	0.00	8.35	14.02	14.02	27.65	22.36	33.65	7.41	8.20	8.40	8.09
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5190;TN,VN	Pass	1M	1M	0.00	8.35	10.34	10.34	14.65	18.69	Inf	3.58	4.47	5.31	4.05
5.2G;VHT40,BF;Nss1,(M0);Ntx4;5230;TN,VN	Pass	1M	1M	0.00	8.35	11.16	11.16	14.65	19.51	Inf	4.74	5.16	6.46	4.07
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5755;TN,VN	Pass	500k	500k	0.00	8.35	10.09	10.09	27.65	18.43	33.65	4.66	4.21	3.94	3.84
5.8G;VHT40,BF;Nss1,(M0);Ntx4;5795;TN,VN	Pass	500k	500k	0.00	8.35	10.04	10.04	27.65	18.39	33.65	4.52	4.06	4.16	3.60
5.2G;VHT80,BF;Nss1,(M0);Ntx4;5210;TN,VN	Pass	1M	1M	0.00	8.35	0.97	0.97	14.65	9.31	Inf	-5.68	-4.99	-3.76	-5.99
5.8G;VHT80,BF;Nss1,(M0);Ntx4;5775;TN,VN	Pass	500k	500k	0.00	8.35	8.85	8.85	27.65	17.20	33.65	2.87	3.01	3.23	2.70

PSD;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:4;Ch:5180MHz;TN,VN



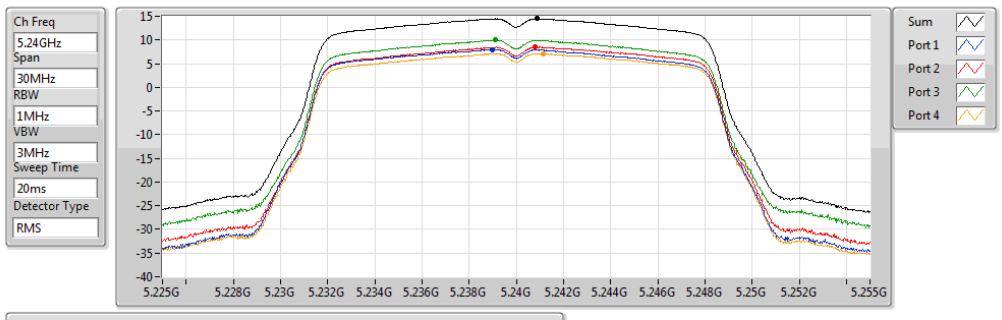
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.53	14.53	7.88	8.54	9.52	8.08

PSD;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:4;Ch:5200MHz;TN,VN



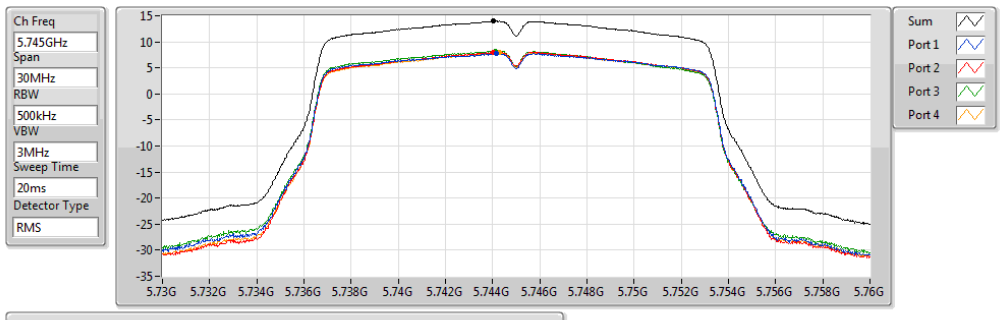
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.39	13.39	6.90	7.41	8.28	6.94

PSD;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:4;Ch:5240MHz;TN,VN



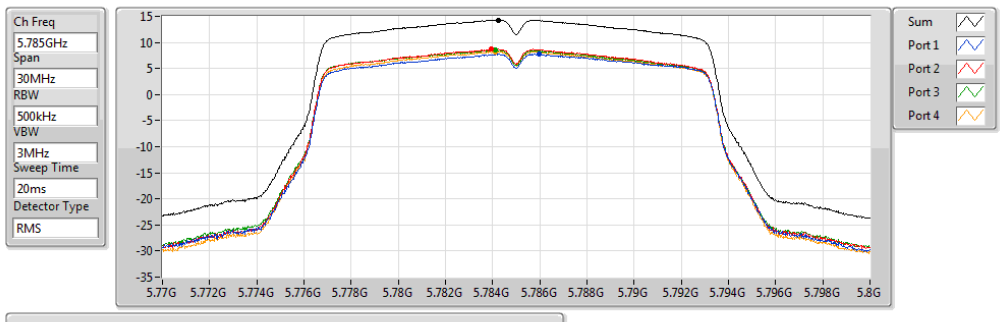
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.47	14.47	7.97	8.47	9.98	7.13

PSD;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:4;Ch:5745MHz;TN,VN



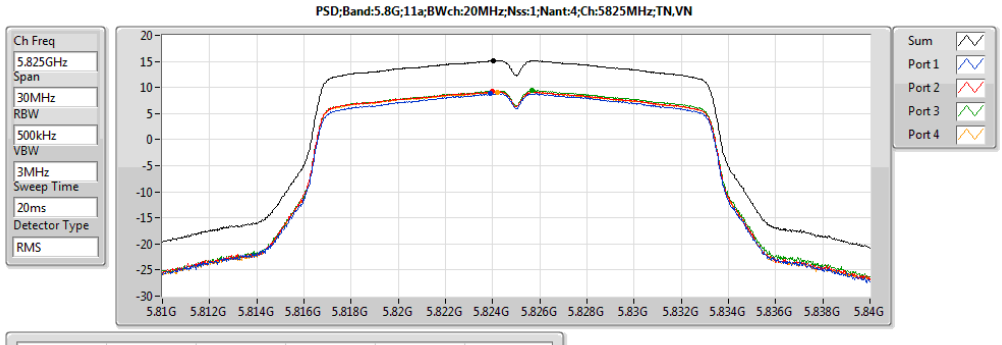
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.95	13.95	7.72	8.01	8.22	7.90

PSD;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:4;Ch:5785MHz;TN,VN



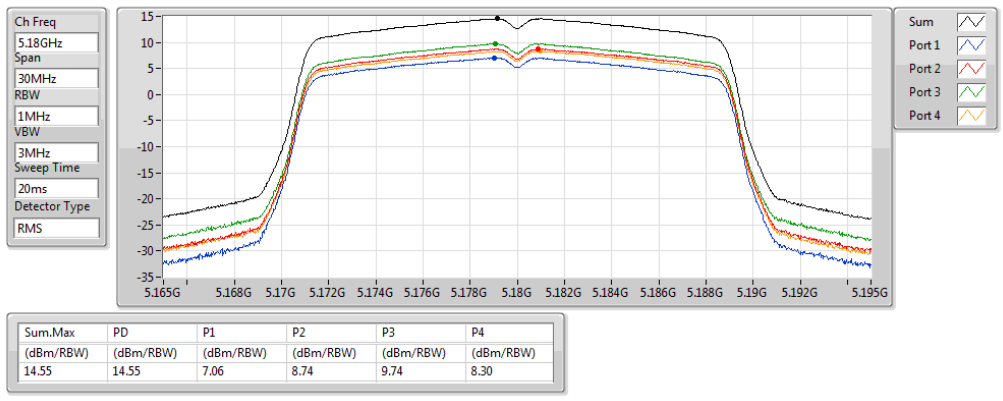
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.29	14.29	7.76	8.70	8.54	8.23

PSD;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:4;Ch:5825MHz;TN,VN



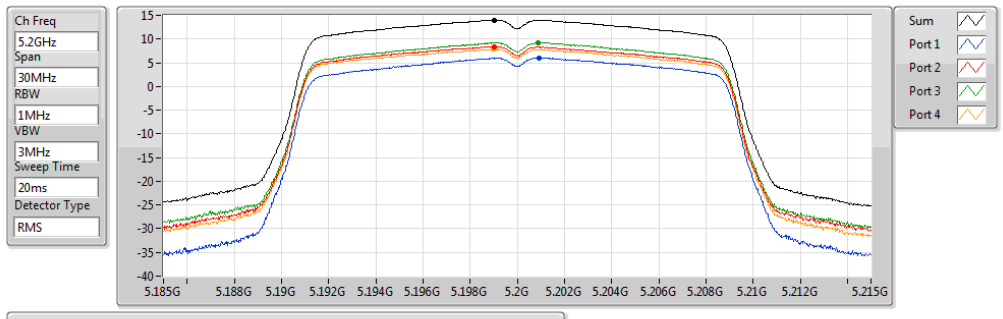
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.11	15.11	8.80	9.21	9.46	9.11

PSD;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5180MHz;TN,VN



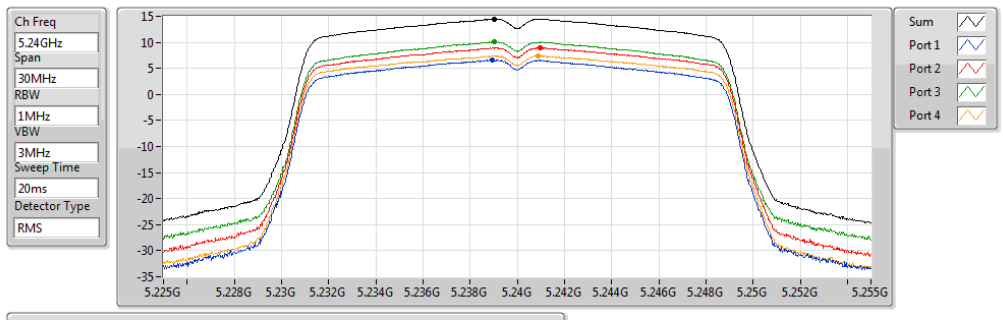
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.55	14.55	7.06	8.74	9.74	8.30

PSD;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5200MHz;TN,VN



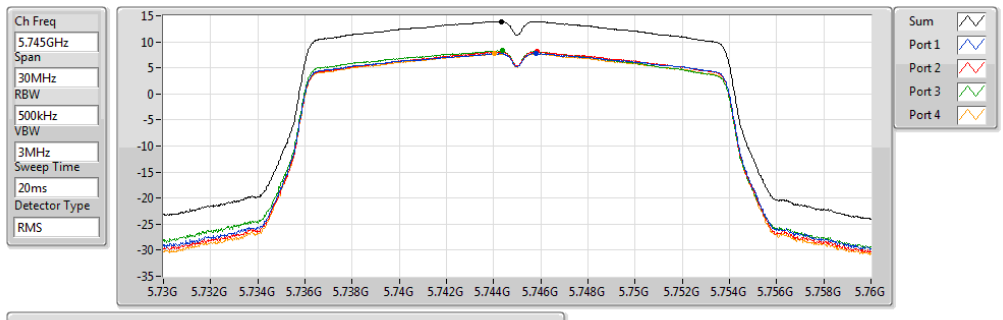
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.01	14.01	6.00	8.44	9.27	7.84

PSD;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5240MHz;TN,VN



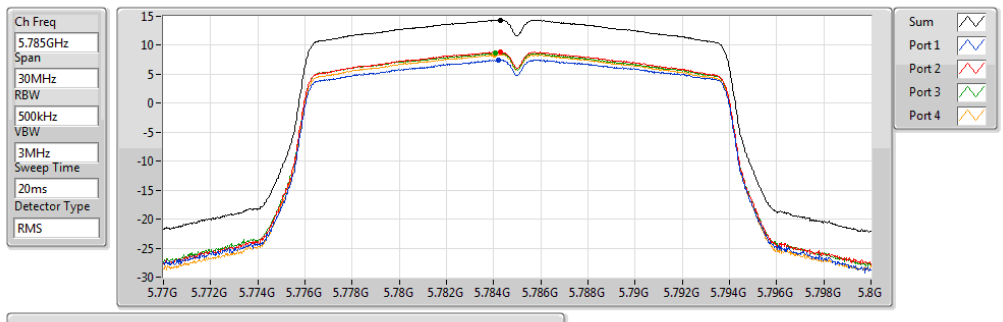
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.45	14.45	6.62	8.94	10.10	7.38

PSD;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5745MHz;TN,VN



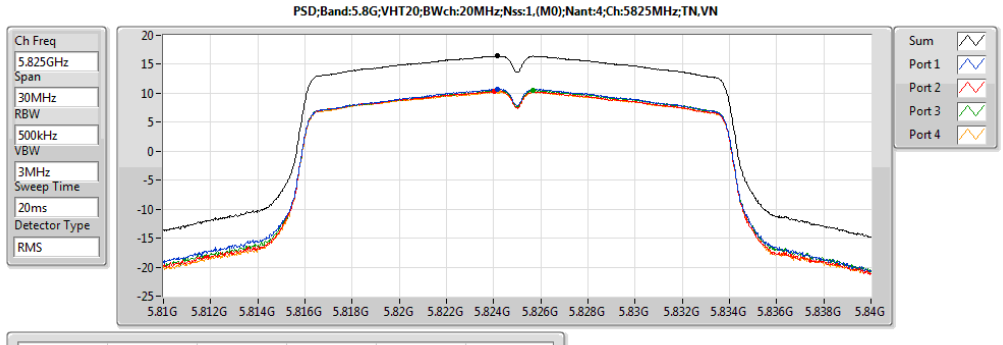
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.92	13.92	7.76	8.07	8.29	7.73

PSD;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5785MHz;TN,VN



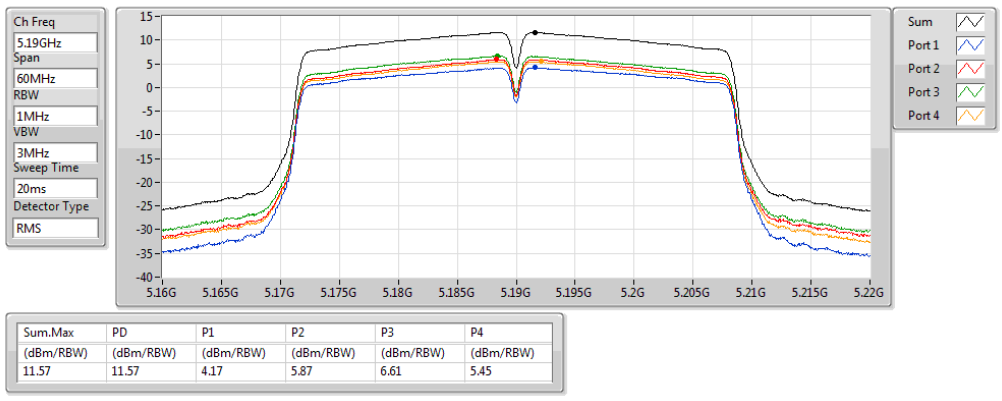
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.36	14.36	7.50	8.88	8.64	8.38

PSD;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5825MHz;TN,VN



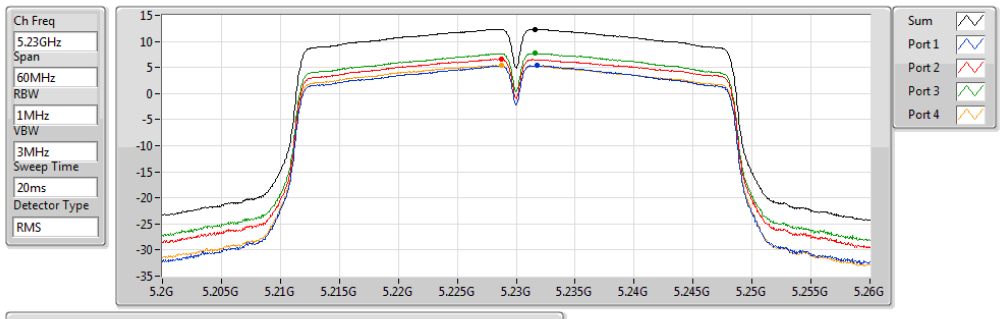
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.42	16.42	10.70	10.28	10.55	10.28

PSD;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5190MHz;TN,VN



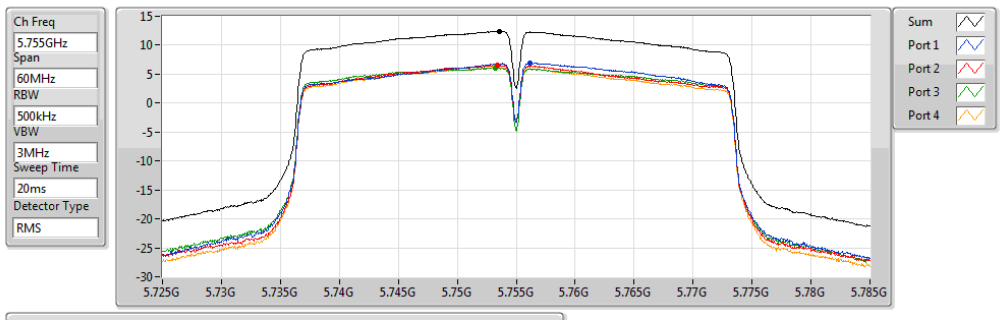
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.57	11.57	4.17	5.87	6.61	5.45

PSD;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5230MHz;TN,VN



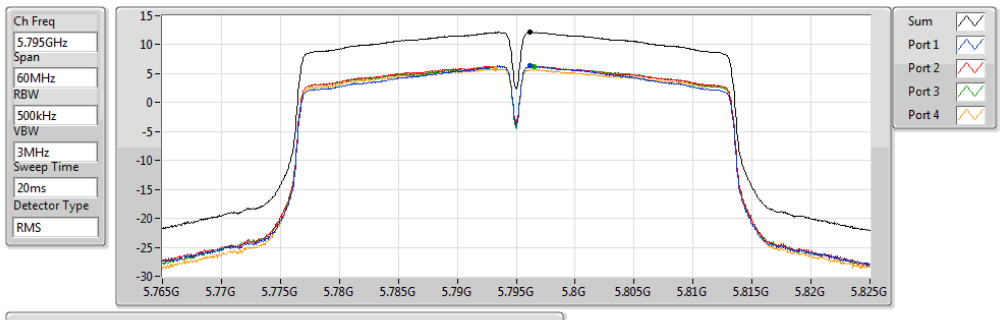
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.35	12.35	5.39	6.57	7.72	5.39

PSD;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5755MHz;TN,VN



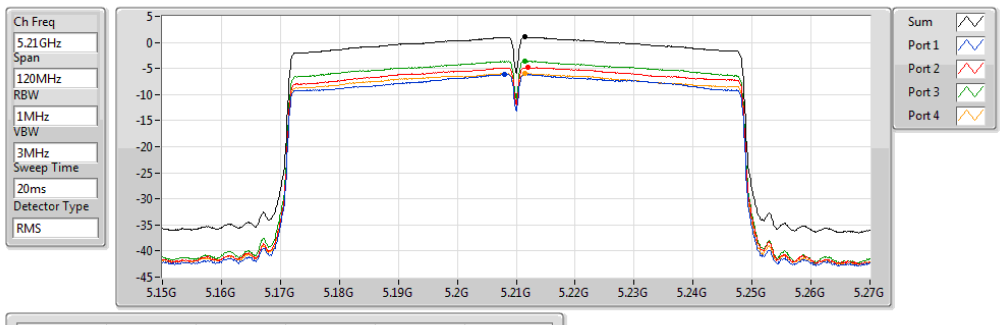
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.39	12.39	6.86	6.51	6.08	6.19

PSD;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5795MHz;TN,VN



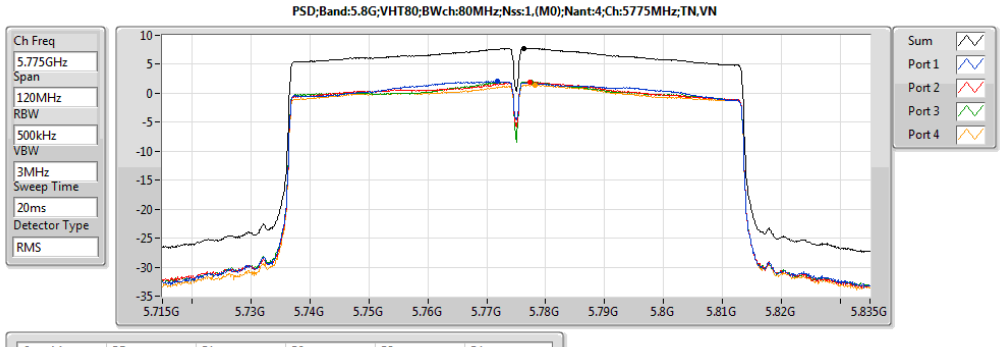
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.14	12.14	6.30	6.33	6.23	5.80

PSD;Band:5.2G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:5210MHz;TN,VN



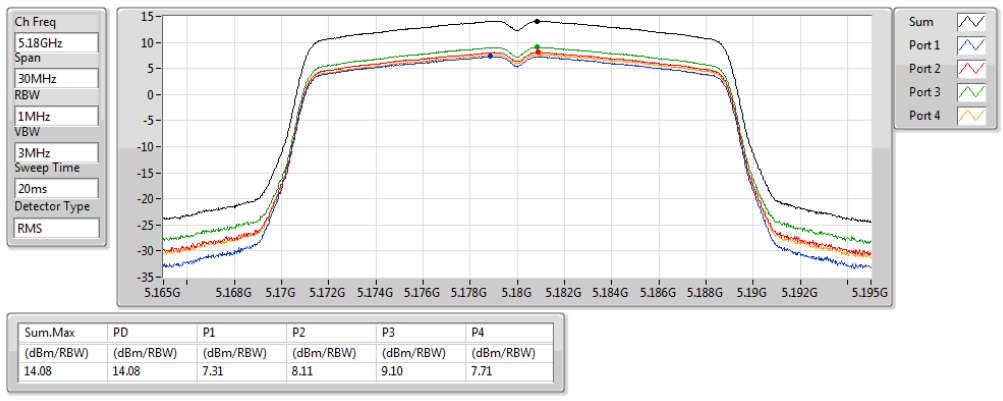
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.00	1.00	-6.13	-4.77	-3.60	-5.91

PSD;Band:5.8G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:5775MHz;TN,VN



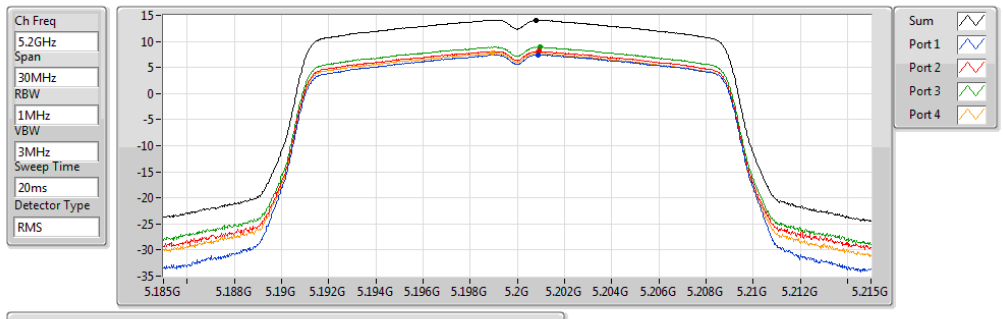
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.74	7.74	2.06	1.88	1.97	1.43

PSD;Band:5.2G;VHT20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5180MHz;TN,VN



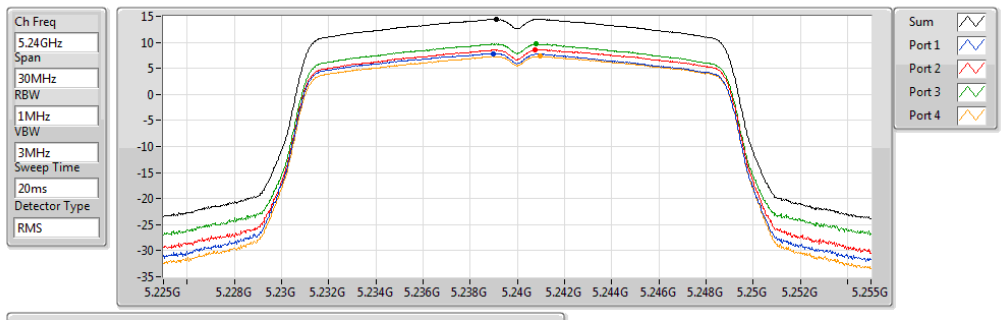
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.08	14.08	7.31	8.11	9.10	7.71

PSD;Band:5.2G;VHT20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5200MHz;TN,VN



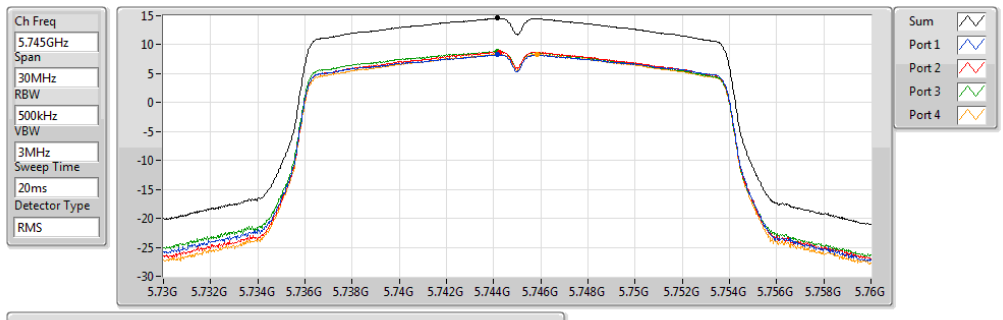
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.11	14.11	7.48	8.15	8.96	7.77

PSD;Band:5.2G;VHT20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5240MHz;TN,VN



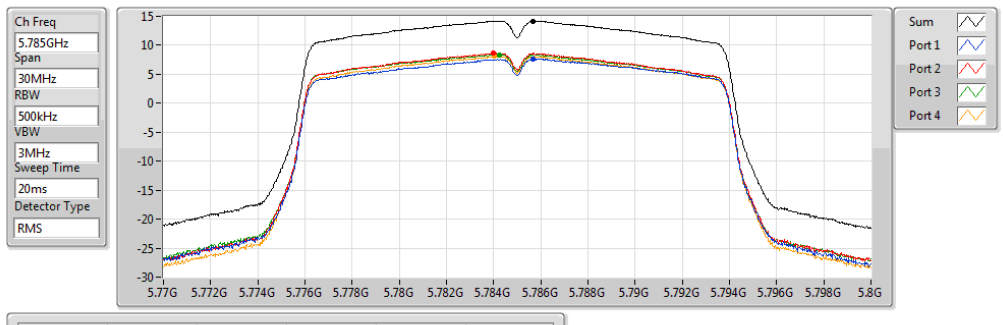
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.44	14.44	7.85	8.58	9.71	7.34

PSD;Band:5.8G;VHT20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5745MHz;TN,VN



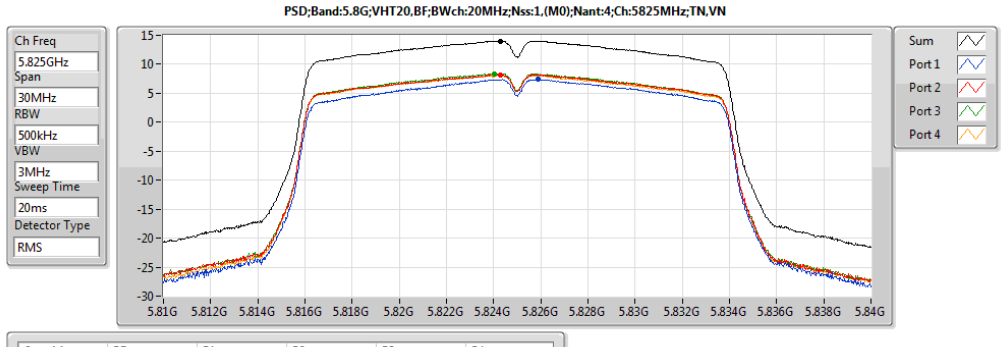
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.57	14.57	8.28	8.73	8.83	8.40

PSD;Band:5.8G;VHT20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5785MHz;TN,VN



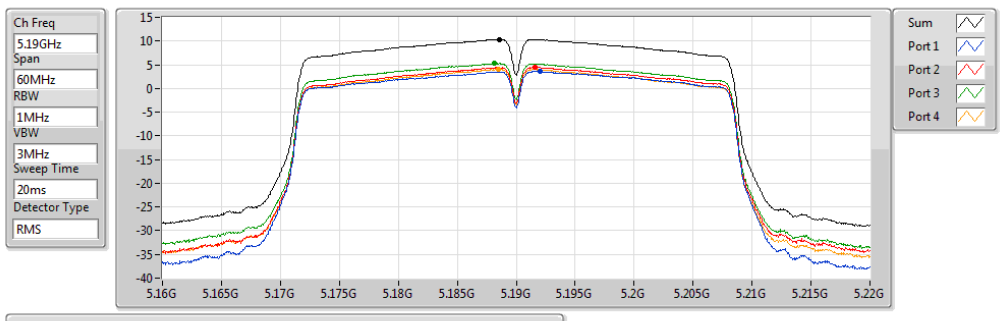
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.18	14.18	7.68	8.64	8.39	8.11

PSD;Band:5.8G;VHT20,BF;BWch:20MHz;Nss:1,(M0);Nant:4;Ch:5825MHz;TN,VN



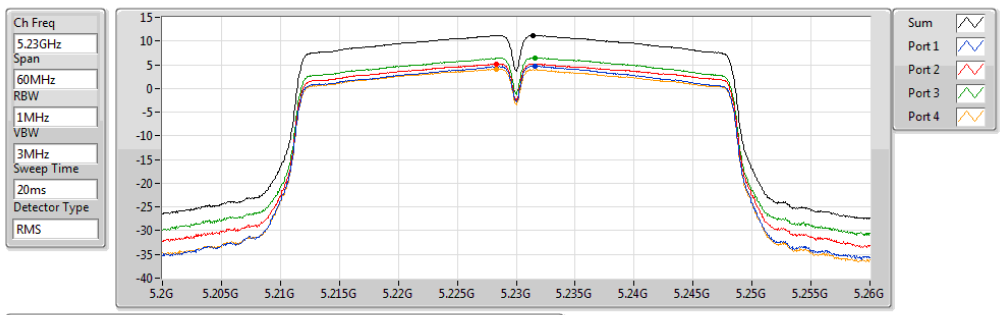
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.02	14.02	7.41	8.20	8.40	8.09

PSD;Band:5.2G;VHT40,BF;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5190MHz;TN,VN



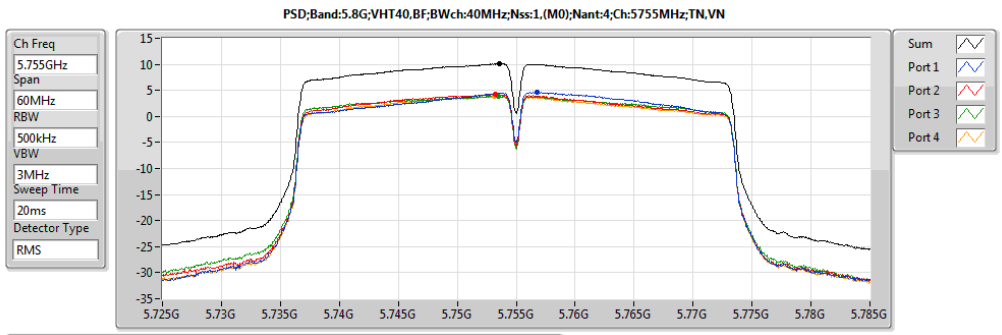
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.34	10.34	3.58	4.47	5.31	4.05

PSD;Band:5.2G;VHT40,BF;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5230MHz;TN,VN



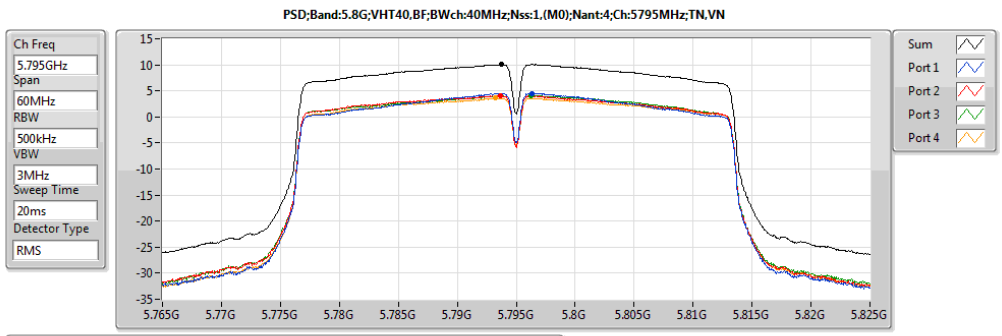
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.16	11.16	4.74	5.16	6.46	4.07

PSD;Band:5.8G;VHT40,BF;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5755MHz;TN,VN



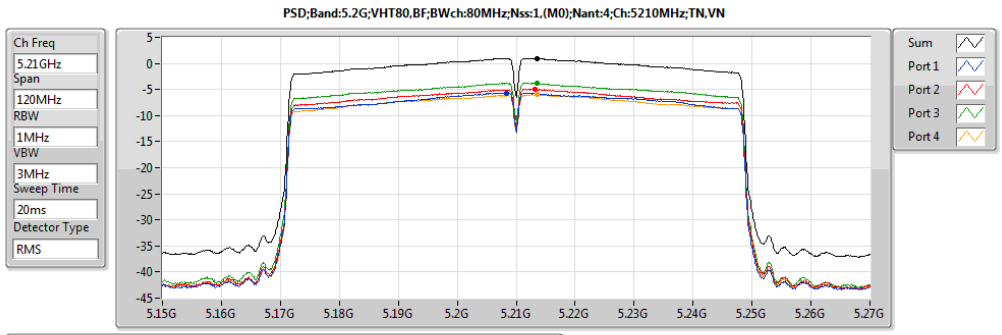
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.09	10.09	4.66	4.21	3.94	3.84

PSD;Band:5.8G;VHT40,BF;BWch:40MHz;Nss:1,(M0);Nant:4;Ch:5795MHz;TN,VN



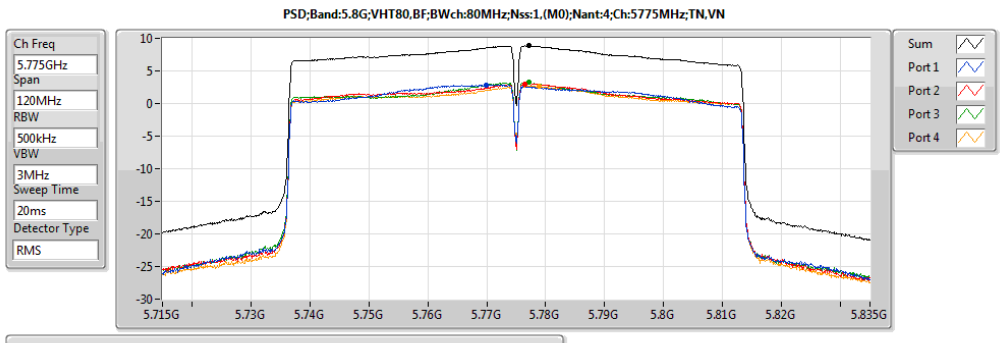
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.04	10.04	4.52	4.06	4.16	3.60

PSD;Band:5.2G;VHT80,BF;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:5210MHz;TN,VN



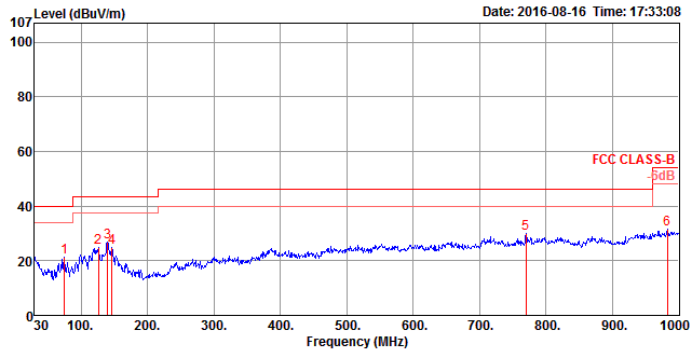
Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.97	0.97	-5.68	-4.99	-3.76	-5.99

PSD;Band:5.8G;VHT80,BF;BWch:80MHz;Nss:1,(M0);Nant:4;Ch:5775MHz;TN,VN



Sum.Max	PD	P1	P2	P3	P4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.85	8.85	2.87	3.01	3.23	2.70

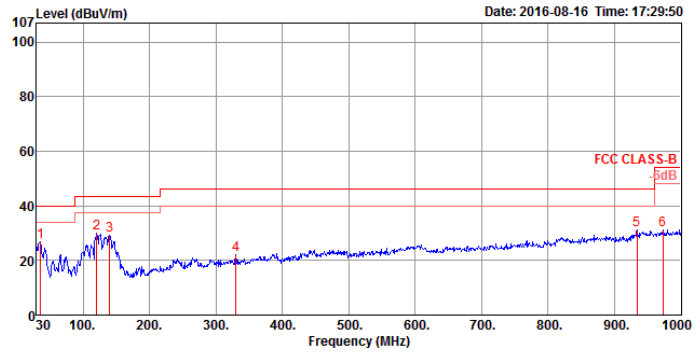
RSE below 1GHz Result			
Operating Mode	3	**Polarization**	Horizontal
Operating Function	5GHz + EUT in Z axis with Adapter 1		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	74.62	21.42	40.00	-18.58	40.47	0.87	32.60	12.68	HORIZONTAL	84	125	Peak
2	126.03	24.99	43.50	-18.51	38.31	1.10	32.56	18.14	HORIZONTAL	285	300	Peak
3	139.61	26.85	43.50	-16.65	40.65	1.16	32.56	17.60	HORIZONTAL	264	200	Peak
4	146.40	24.99	43.50	-18.51	39.28	1.19	32.56	17.08	HORIZONTAL	272	200	Peak
5	770.11	29.92	46.00	-16.08	33.34	2.72	32.46	26.32	HORIZONTAL	226	100	Peak
6	982.54	31.40	54.00	-22.60	31.38	3.15	31.13	28.00	HORIZONTAL	32	100	Peak

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.)

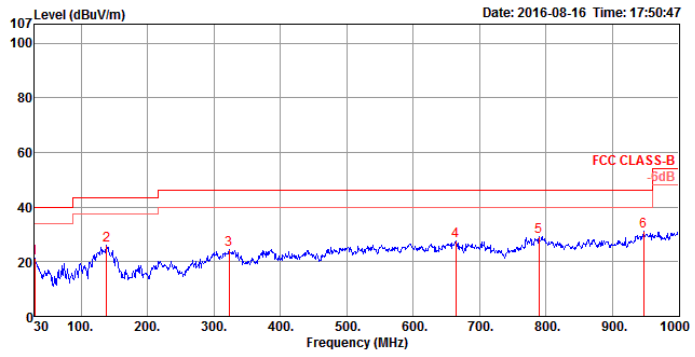
RSE below 1GHz Result			
Operating Mode	3	**Power Phase**	Vertical
Operating Function	5GHz + EUT in Z axis with Adapter 1		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	35.82	27.01	40.00	-12.99	37.09	0.61	32.64	21.95	VERTICAL	289	200	Peak
2	120.21	29.92	43.50	-13.58	43.20	1.08	32.56	18.20	VERTICAL	200	100	Peak
3	139.61	29.18	43.50	-14.32	42.98	1.16	32.56	17.60	VERTICAL	208	100	Peak
4	329.73	22.05	46.00	-23.95	32.33	1.79	32.53	20.46	VERTICAL	311	150	Peak
5	934.04	31.13	46.00	-14.87	31.96	3.00	31.55	27.72	VERTICAL	235	100	Peak
6	972.84	31.30	54.00	-22.70	31.46	3.11	31.21	27.94	VERTICAL	1	200	Peak

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.)

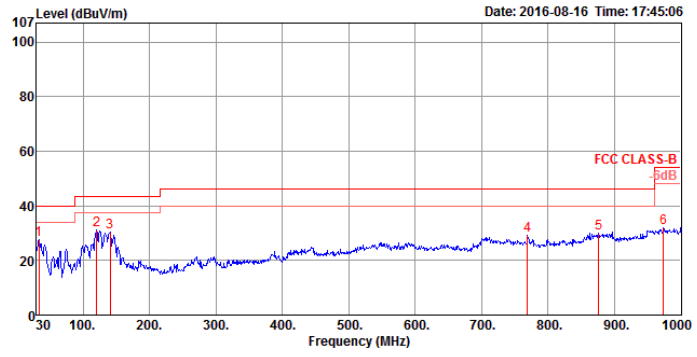
RSE below 1GHz Result			
Operating Mode	4	**Polarization**	Horizontal
Operating Function	5GHz + EUT in Z axis with Adapter 2		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	30.00	21.34	40.00	-18.66	28.05	0.53	32.64	25.40	HORIZONTAL	81	100	Peak
2	138.64	25.90	43.50	-17.60	39.65	1.16	32.56	17.65	HORIZONTAL	279	200	Peak
3	322.94	24.57	46.00	-21.43	35.06	1.77	32.53	20.27	HORIZONTAL	206	100	Peak
4	664.38	27.51	46.00	-18.49	32.27	2.51	32.63	25.36	HORIZONTAL	36	300	Peak
5	789.51	29.18	46.00	-16.82	32.32	2.75	32.41	26.52	HORIZONTAL	334	100	Peak
6	946.65	31.08	46.00	-14.92	31.73	3.01	31.44	27.78	HORIZONTAL	202	300	Peak

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.)

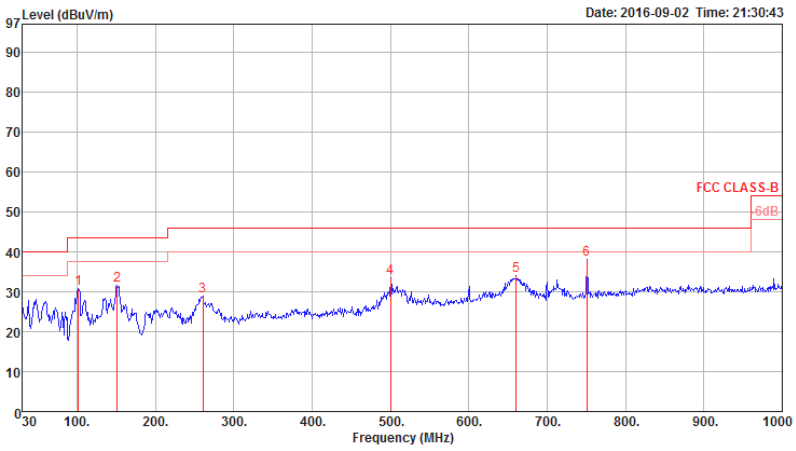
RSE below 1GHz Result			
Operating Mode	4	**Power Phase**	Vertical
Operating Function	5GHz + EUT in Z axis with Adapter 2		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	33.88	27.66	40.00	-12.34	36.62	0.59	32.64	23.09	VERTICAL	104	100	Peak
2	120.21	31.09	43.50	-12.41	44.37	1.08	32.56	18.20	VERTICAL	203	100	Peak
3	140.58	30.24	43.50	-13.26	44.08	1.16	32.56	17.56	VERTICAL	229	100	Peak
4	769.14	29.28	46.00	-16.72	32.73	2.72	32.46	26.29	VERTICAL	347	300	Peak
5	875.84	30.07	46.00	-15.93	31.87	2.89	31.99	27.30	VERTICAL	311	200	Peak
6	973.81	32.12	54.00	-21.88	32.28	3.11	31.21	27.94	VERTICAL	38	125	Peak

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.)

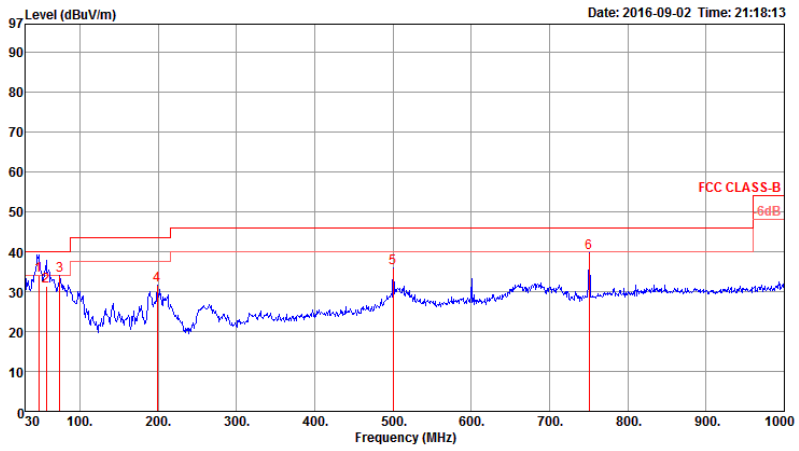
RSE below 1GHz Result			
Operating Mode	5	**Polarization**	Horizontal
Operating Function	5GHz + EUT in Z axis with Adapter 3		



	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	101.78	30.68	43.50	-12.82	42.23	0.70	17.10	29.35	100	0	Peak	HORIZONTAL
2	151.25	31.51	43.50	-11.99	42.92	0.92	16.76	29.09	100	0	Peak	HORIZONTAL
3	260.86	28.78	46.00	-17.22	37.02	1.36	19.58	29.18	100	0	Peak	HORIZONTAL
4	500.45	33.41	46.00	-12.59	36.91	2.04	23.92	29.46	100	0	Peak	HORIZONTAL
5	660.50	34.15	46.00	-11.85	35.30	2.45	25.45	29.05	100	0	Peak	HORIZONTAL
6	750.71	38.07	46.00	-7.93	37.90	2.68	26.30	28.81	100	0	Peak	HORIZONTAL

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

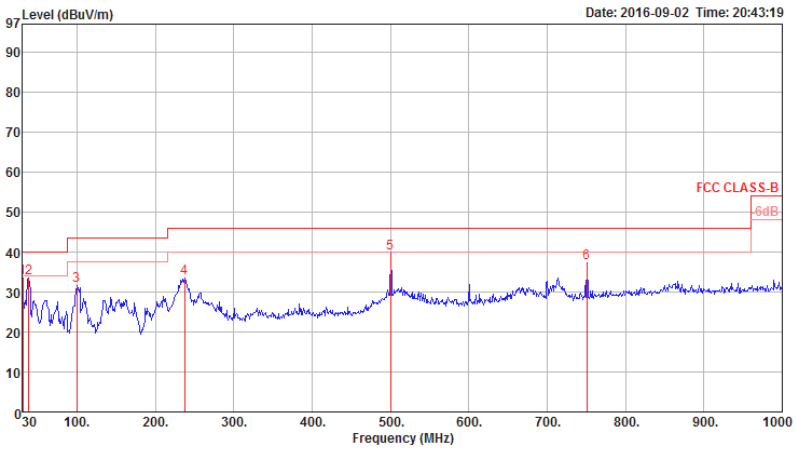
RSE below 1GHz Result			
Operating Mode	5	**Power Phase**	Vertical
Operating Function	5GHz + EUT in Z axis with Adapter 3		



	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	47.86	33.92	40.00	-6.08	47.67	0.35	15.45	29.55	100	2	QP	VERTICAL
2	57.16	31.31	40.00	-8.69	47.50	0.43	12.89	29.51	118	213	QP	VERTICAL
3	74.62	33.92	40.00	-6.08	50.19	0.55	12.63	29.45	300	0	Peak	VERTICAL
4	198.78	31.59	43.50	-11.91	43.22	1.13	16.09	28.85	300	0	Peak	VERTICAL
5	500.45	36.06	46.00	-9.94	39.56	2.04	23.92	29.46	300	0	Peak	VERTICAL
6	750.71	39.66	46.00	-6.34	39.49	2.68	26.30	28.81	300	0	Peak	VERTICAL

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

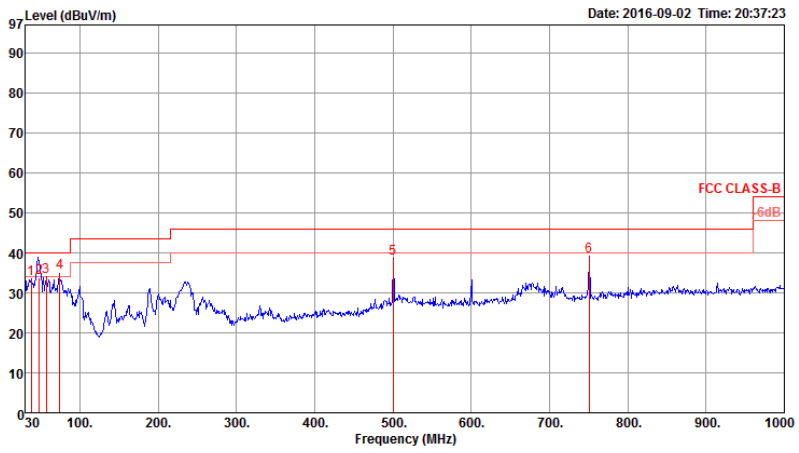
RSE below 1GHz Result			
Operating Mode	6	**Polarization**	Horizontal
Operating Function	5GHz + EUT in Z axis with Adapter 4		



	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	30.97	33.51	40.00	-6.49	38.01	0.20	24.89	29.59	100	0	Peak	HORIZONTAL
2	38.73	33.63	40.00	-6.37	42.72	0.27	20.21	29.57	100	0	Peak	HORIZONTAL
3	99.84	31.60	43.50	-11.90	43.37	0.69	16.90	29.36	100	0	Peak	HORIZONTAL
4	237.58	33.43	46.00	-12.57	43.55	1.28	17.65	29.05	100	0	Peak	HORIZONTAL
5	500.45	39.84	46.00	-6.16	43.34	2.04	23.92	29.46	100	0	Peak	HORIZONTAL
6	750.71	37.23	46.00	-8.77	37.06	2.68	26.30	28.81	100	0	Peak	HORIZONTAL

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

RSE below 1GHz Result			
Operating Mode	6	**Power Phase**	Vertical
Operating Function	5GHz + EUT in Z axis with Adapter 4		



	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	37.76	33.55	40.00	-6.45	42.10	0.26	20.76	29.57	300	0	Peak	VERTICAL
2	47.99	33.89	40.00	-6.11	47.70	0.36	15.38	29.55	102	4	QP	VERTICAL
3	57.16	33.93	40.00	-6.07	50.12	0.43	12.89	29.51	300	0	Peak	VERTICAL
4	74.62	35.06	40.00	-4.94	51.33	0.55	12.63	29.45	300	0	Peak	VERTICAL
5	500.45	38.70	46.00	-7.30	42.20	2.04	23.92	29.46	300	0	Peak	VERTICAL
6	750.71	39.12	46.00	-6.88	38.95	2.68	26.30	28.81	300	0	Peak	VERTICAL

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

Radiated Emissions (1GHz~40GHz)

<For Non-Beamforming Mode>

Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4

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	15538.46	45.02	54.00	-8.98	28.32	12.06	38.13	33.49	156	247	Average	HORIZONTAL
2	15541.28	57.62	74.00	-16.38	40.92	12.06	38.13	33.49	156	247	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	15531.54	58.23	74.00	-15.77	41.53	12.06	38.13	33.49	139	187	Peak	VERTICAL
2	15545.48	45.16	54.00	-8.84	28.46	12.06	38.13	33.49	139	187	Average	VERTICAL

Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

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	15598.91	58.48	74.00	-15.52	41.87	12.09	38.05	33.53	143	265	Peak	HORIZONTAL
2	15609.84	44.76	54.00	-9.24	28.25	12.11	37.98	33.58	143	265	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	15593.49	44.93	54.00	-9.07	28.32	12.09	38.05	33.53	157	224	Average	VERTICAL
2	15597.05	57.56	74.00	-16.44	40.95	12.09	38.05	33.53	157	224	Peak	VERTICAL

Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4

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	15711.76	59.02	74.00	-14.98	42.65	12.15	37.84	33.62	154	160	Peak	HORIZONTAL
2	15727.76	45.05	54.00	-8.95	28.73	12.15	37.84	33.67	154	160	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	15715.58	57.84	74.00	-16.16	41.52	12.15	37.84	33.67	172	189	Peak	VERTICAL
2	15717.53	45.70	54.00	-8.30	29.38	12.15	37.84	33.67	172	189	Average	VERTICAL

Configurations	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4

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	11484.81	50.74	54.00	-3.26	34.62	10.10	39.20	33.18	268	61	Average	HORIZONTAL
2	11487.31	59.70	74.00	-14.30	43.58	10.10	39.20	33.18	268	61	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	11488.62	53.33	54.00	-0.67	37.21	10.10	39.20	33.18	285	32	Average	VERTICAL
2	11490.64	66.95	74.00	-7.05	50.83	10.10	39.20	33.18	285	32	Peak	VERTICAL

Configurations	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4

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	11565.87	58.09	74.00	-15.91	41.96	10.13	39.20	33.20	228	96	Peak	HORIZONTAL
2	11570.51	50.92	54.00	-3.08	34.79	10.13	39.20	33.20	228	96	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	11569.81	52.97	54.00	-1.03	36.84	10.13	39.20	33.20	238	32	Average	VERTICAL
2	11573.88	64.63	74.00	-9.37	48.50	10.13	39.20	33.20	238	32	Peak	VERTICAL

Configurations	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4

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	11652.40	59.52	74.00	-14.48	43.36	10.18	39.20	33.22	226	118	Peak	HORIZONTAL
2	11654.46	47.67	54.00	-6.33	31.51	10.18	39.20	33.22	226	118	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	11646.51	50.85	54.00	-3.15	34.71	10.16	39.20	33.22	243	127	Average	VERTICAL
2	11654.55	64.69	74.00	-9.31	48.53	10.18	39.20	33.22	243	127	Peak	VERTICAL

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

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	15534.26	45.74	54.00	-8.26	29.04	12.06	38.13	33.49	163	186	Average	HORIZONTAL
2	15544.87	58.40	74.00	-15.60	41.70	12.06	38.13	33.49	163	186	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	15532.47	58.76	74.00	-15.24	42.06	12.06	38.13	33.49	149	258	Peak	VERTICAL
2	15540.16	45.89	54.00	-8.11	29.19	12.06	38.13	33.49	149	258	Average	VERTICAL

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

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	15592.79	45.53	54.00	-8.47	28.92	12.09	38.05	33.53	152	197	Average	HORIZONTAL
2	15597.63	58.12	74.00	-15.88	41.51	12.09	38.05	33.53	152	197	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	15590.54	45.71	54.00	-8.29	29.10	12.09	38.05	33.53	161	271	Average	VERTICAL
2	15608.46	58.89	74.00	-15.11	42.33	12.11	37.98	33.53	161	271	Peak	VERTICAL

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

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	15712.21	45.57	54.00	-8.43	29.20	12.15	37.84	33.62	158	217	Average	HORIZONTAL
2	15714.49	58.50	74.00	-15.50	42.18	12.15	37.84	33.67	158	217	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	15726.09	58.03	74.00	-15.97	41.71	12.15	37.84	33.67	154	264	Peak	VERTICAL
2	15729.46	45.72	54.00	-8.28	29.40	12.15	37.84	33.67	154	264	Average	VERTICAL

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

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	11488.04	46.47	54.00	-7.53	30.35	10.10	39.20	33.18	152	220	Average	HORIZONTAL
2	11499.55	56.87	74.00	-17.13	40.75	10.10	39.20	33.18	152	220	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	11487.08	58.39	74.00	-15.61	42.27	10.10	39.20	33.18	157	138	Peak	VERTICAL
2	11493.37	47.05	54.00	-6.95	30.93	10.10	39.20	33.18	157	138	Average	VERTICAL

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

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	11565.26	57.99	74.00	-16.01	41.86	10.13	39.20	33.20	162	210	Peak	HORIZONTAL
2	11566.83	44.96	54.00	-9.04	28.83	10.13	39.20	33.20	162	210	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	11564.07	56.90	74.00	-17.10	40.77	10.13	39.20	33.20	166	305	Peak	VERTICAL
2	11565.51	44.84	54.00	-9.16	28.71	10.13	39.20	33.20	166	305	Average	VERTICAL

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

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	11643.75	44.14	54.00	-9.86	28.00	10.16	39.20	33.22	151	233	Average	HORIZONTAL
2	11649.23	56.89	74.00	-17.11	40.75	10.16	39.20	33.22	151	233	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	11650.13	44.25	54.00	-9.75	28.11	10.16	39.20	33.22	155	181	Average	VERTICAL
2	11659.10	56.32	74.00	-17.68	40.16	10.18	39.20	33.22	155	181	Peak	VERTICAL

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

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	15555.18	58.03	74.00	-15.97	41.33	12.06	38.13	33.49	162	235	Peak	HORIZONTAL
2	15564.87	45.92	54.00	-8.08	29.31	12.09	38.05	33.53	162	235	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	15554.94	45.93	54.00	-8.07	29.23	12.06	38.13	33.49	155	164	Average	VERTICAL
2	15557.18	58.36	74.00	-15.64	41.71	12.09	38.05	33.49	155	164	Peak	VERTICAL

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

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	15699.33	45.95	54.00	-8.05	29.58	12.15	37.84	33.62	169	227	Average	HORIZONTAL
2	15712.50	58.46	74.00	-15.54	42.14	12.15	37.84	33.67	169	227	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	15698.56	58.61	74.00	-15.39	42.24	12.15	37.84	33.62	155	269	Peak	VERTICAL
2	15702.12	46.11	54.00	-7.89	29.74	12.15	37.84	33.62	155	269	Average	VERTICAL

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

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	11502.69	45.14	54.00	-8.86	29.02	10.10	39.20	33.18	150	219	Average	HORIZONTAL
2	11518.08	57.21	74.00	-16.79	41.08	10.12	39.20	33.19	150	219	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	11502.31	44.83	54.00	-9.17	28.71	10.10	39.20	33.18	152	162	Average	VERTICAL
2	11515.77	56.73	74.00	-17.27	40.62	10.10	39.20	33.19	152	162	Peak	VERTICAL

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

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	11585.77	44.90	54.00	-9.10	28.76	10.15	39.20	33.21	158	220	Average	HORIZONTAL
2	11589.62	57.04	74.00	-16.96	40.90	10.15	39.20	33.21	158	220	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	11585.19	45.35	54.00	-8.65	29.21	10.15	39.20	33.21	164	283	Average	VERTICAL
2	11597.21	56.79	74.00	-17.21	40.65	10.15	39.20	33.21	164	283	Peak	VERTICAL

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

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	10417.66	42.28	54.00	-11.72	27.79	9.55	38.51	33.57	156	247	Average	HORIZONTAL
2	10423.81	56.10	74.00	-17.90	41.61	9.55	38.51	33.57	156	247	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	10410.48	43.43	54.00	-10.57	28.94	9.55	38.51	33.57	158	106	Average	VERTICAL
2	10443.75	55.92	74.00	-18.08	41.44	9.57	38.47	33.56	158	106	Peak	VERTICAL

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

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	11531.92	44.20	54.00	-9.80	28.07	10.12	39.20	33.19	159	337	Average	HORIZONTAL
2	11531.92	54.77	74.00	-19.23	38.64	10.12	39.20	33.19	159	337	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	11531.92	45.51	54.00	-8.49	29.38	10.12	39.20	33.19	162	282	Average	VERTICAL
2	11531.92	54.86	74.00	-19.14	38.73	10.12	39.20	33.19	162	282	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.

<For Beamforming Mode>

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

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	15538.57	46.00	54.00	-8.00	29.30	12.06	38.13	33.49	148	50	Average	HORIZONTAL
2	15538.67	58.26	74.00	-15.74	41.56	12.06	38.13	33.49	148	50	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	15542.16	58.55	74.00	-15.45	41.85	12.06	38.13	33.49	161	99	Peak	VERTICAL
2	15542.44	45.50	54.00	-8.50	28.80	12.06	38.13	33.49	161	99	Average	VERTICAL

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

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	15598.01	58.73	74.00	-15.27	42.12	12.09	38.05	33.53	170	168	Peak	HORIZONTAL
2	15600.62	45.51	54.00	-8.49	28.95	12.11	37.98	33.53	170	168	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	15598.19	45.59	54.00	-8.41	28.98	12.09	38.05	33.53	182	219	Average	VERTICAL
2	15598.33	58.82	74.00	-15.18	42.21	12.09	38.05	33.53	182	219	Peak	VERTICAL

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

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	15721.32	45.54	54.00	-8.46	29.22	12.15	37.84	33.67	173	265	Average	HORIZONTAL
2	15721.67	58.49	74.00	-15.51	42.17	12.15	37.84	33.67	173	265	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	15719.77	45.80	54.00	-8.20	29.48	12.15	37.84	33.67	155	192	Average	VERTICAL
2	15720.50	58.49	74.00	-15.51	42.17	12.15	37.84	33.67	155	192	Peak	VERTICAL

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

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	11489.28	45.15	54.00	-8.85	29.03	10.10	39.20	33.18	146	261	Average	HORIZONTAL
2	11490.10	58.11	74.00	-15.89	41.99	10.10	39.20	33.18	146	261	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	11490.83	44.70	54.00	-9.30	28.58	10.10	39.20	33.18	163	187	Average	VERTICAL
2	11491.55	58.55	74.00	-15.45	42.43	10.10	39.20	33.18	163	187	Peak	VERTICAL

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

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	11570.30	59.17	74.00	-14.83	43.04	10.13	39.20	33.20	156	236	Peak	HORIZONTAL
2	11571.19	45.78	54.00	-8.22	29.65	10.13	39.20	33.20	156	236	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	11569.14	45.80	54.00	-8.20	29.67	10.13	39.20	33.20	146	181	Average	VERTICAL
2	11569.17	58.62	74.00	-15.38	42.49	10.13	39.20	33.20	146	181	Peak	VERTICAL

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

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	11649.41	46.05	54.00	-7.95	29.91	10.16	39.20	33.22	160	119	Average	HORIZONTAL
2	11649.58	58.70	74.00	-15.30	42.56	10.16	39.20	33.22	160	119	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	11650.70	58.91	74.00	-15.09	42.77	10.16	39.20	33.22	148	178	Peak	VERTICAL
2	11651.61	45.86	54.00	-8.14	29.70	10.18	39.20	33.22	148	178	Average	VERTICAL

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

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	15568.67	60.85	74.00	-13.15	44.24	12.09	38.05	33.53	169	127	Peak	HORIZONTAL
2	15569.30	47.25	54.00	-6.75	30.64	12.09	38.05	33.53	169	127	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	15568.97	60.91	74.00	-13.09	44.30	12.09	38.05	33.53	180	67	Peak	VERTICAL
2	15569.97	47.09	54.00	-6.91	30.48	12.09	38.05	33.53	180	67	Average	VERTICAL

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

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	15688.38	61.07	74.00	-12.93	44.65	12.13	37.91	33.62	185	193	Peak	HORIZONTAL
2	15690.18	47.39	54.00	-6.61	30.97	12.13	37.91	33.62	185	193	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	15688.13	60.79	74.00	-13.21	44.37	12.13	37.91	33.62	174	277	Peak	VERTICAL
2	15689.06	47.34	54.00	-6.66	30.92	12.13	37.91	33.62	174	277	Average	VERTICAL

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

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	11510.49	59.09	74.00	-14.91	42.98	10.10	39.20	33.19	163	325	Peak	HORIZONTAL
2	11512.19	46.16	54.00	-7.84	30.05	10.10	39.20	33.19	163	325	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	11511.96	59.98	74.00	-14.02	43.87	10.10	39.20	33.19	180	297	Peak	VERTICAL
2	11512.03	45.88	54.00	-8.12	29.77	10.10	39.20	33.19	180	297	Average	VERTICAL

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

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	11587.66	45.94	54.00	-8.06	29.80	10.15	39.20	33.21	169	242	Average	HORIZONTAL
2	11589.42	59.37	74.00	-14.63	43.23	10.15	39.20	33.21	169	242	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	11587.59	45.71	54.00	-8.29	29.57	10.15	39.20	33.21	156	180	Average	VERTICAL
2	11589.01	58.91	74.00	-15.09	42.77	10.15	39.20	33.21	156	180	Peak	VERTICAL

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

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	15632.23	57.88	74.00	-16.12	41.37	12.11	37.98	33.58	175	141	Peak	HORIZONTAL
2	15633.62	44.25	54.00	-9.75	27.74	12.11	37.98	33.58	175	141	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	15632.84	44.21	54.00	-9.79	27.70	12.11	37.98	33.58	158	99	Average	VERTICAL
2	15633.91	57.15	74.00	-16.85	40.64	12.11	37.98	33.58	158	99	Peak	VERTICAL

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

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	11548.03	45.15	54.00	-8.85	29.03	10.12	39.20	33.20	167	33	Average	HORIZONTAL
2	11549.36	58.12	74.00	-15.88	42.00	10.12	39.20	33.20	167	33	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	11550.16	57.73	74.00	-16.27	41.61	10.12	39.20	33.20	172	69	Peak	VERTICAL
2	11550.18	44.91	54.00	-9.09	28.78	10.13	39.20	33.20	172	69	Average	VERTICAL

Note:

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

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

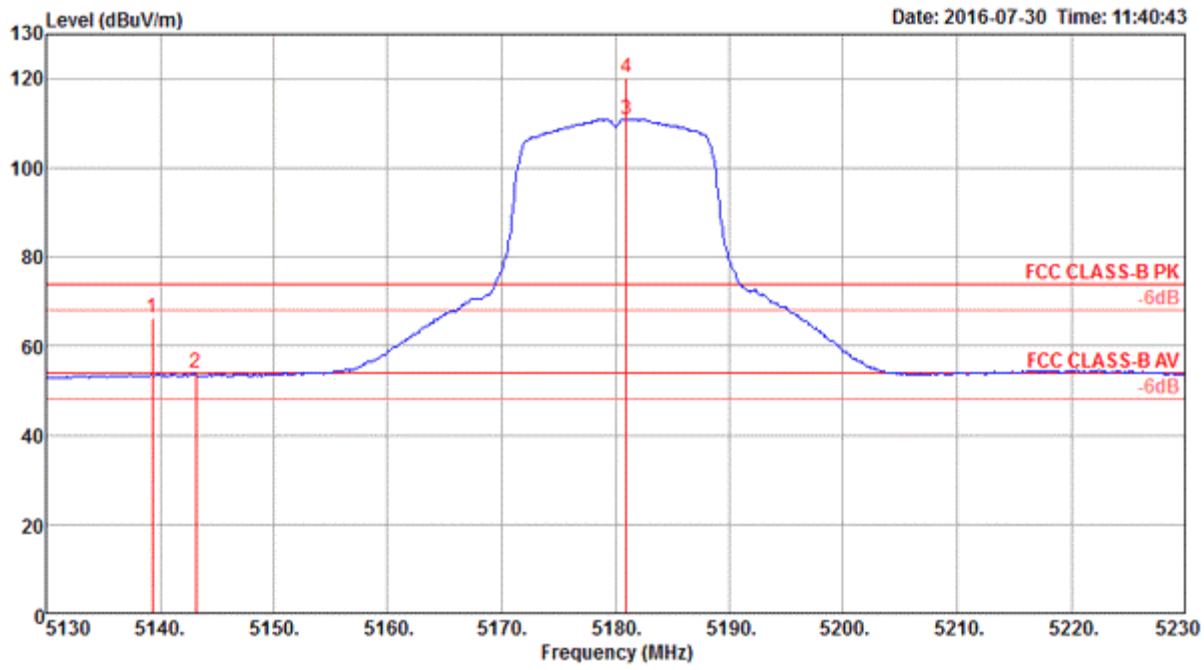
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Band Edge Emissions

<For Non-Beamforming Mode>

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

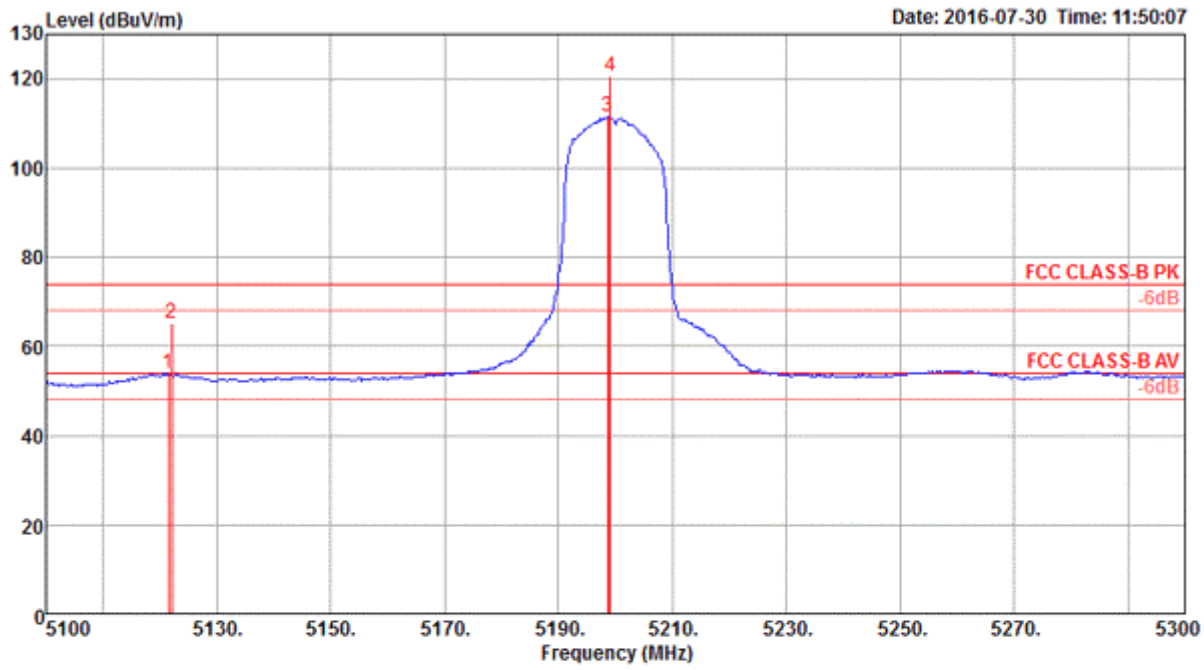
Channel 36



	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	5139.30	66.09	74.00	-7.91	58.86	6.43	33.72	32.92	181	38	Peak	VERTICAL
2	5143.14	53.78	54.00	-0.22	46.52	6.44	33.74	32.92	181	38	Average	VERTICAL
3	5180.96	110.93			103.59	6.47	33.79	32.92	181	38	Average	VERTICAL
4	5180.96	120.22			112.88	6.47	33.79	32.92	181	38	Peak	VERTICAL

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

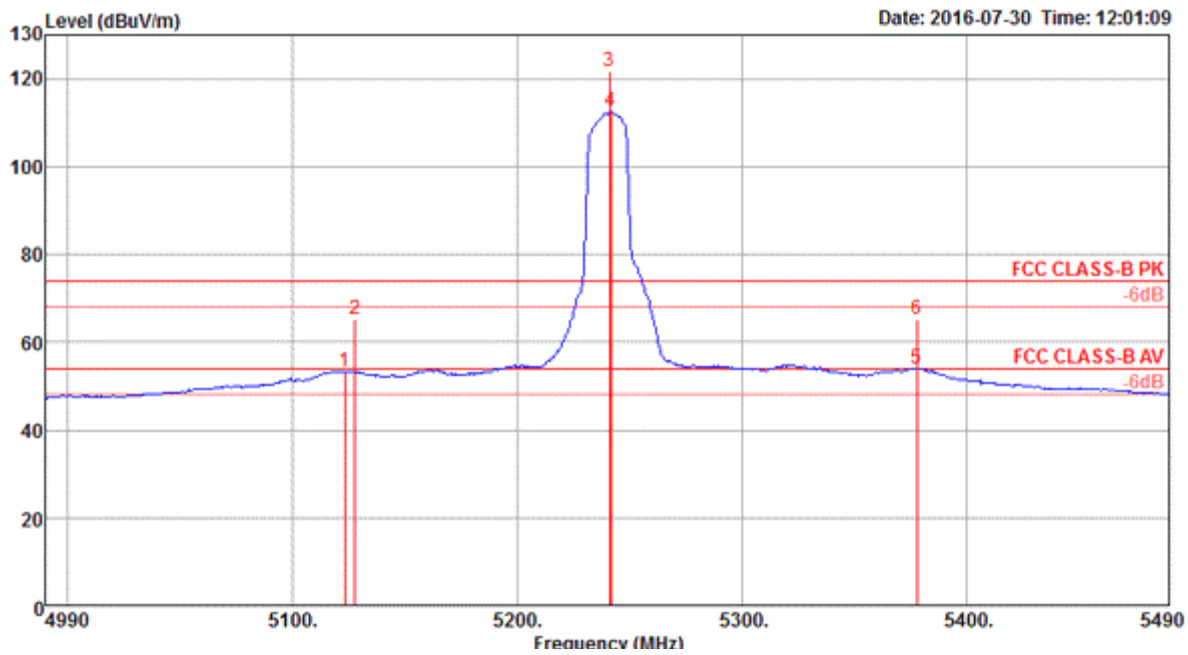
Channel 40



	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	5121.47	53.83	54.00	-0.17	46.64	6.41	33.69	32.91	190	39	Average	VERTICAL
2	5122.12	65.22	74.00	-8.78	58.03	6.41	33.69	32.91	190	39	Peak	VERTICAL
3	5198.72	111.41			104.03	6.48	33.82	32.92	190	39	Average	VERTICAL
4	5199.04	120.44			113.06	6.48	33.82	32.92	190	39	Peak	VERTICAL

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

Channel 48

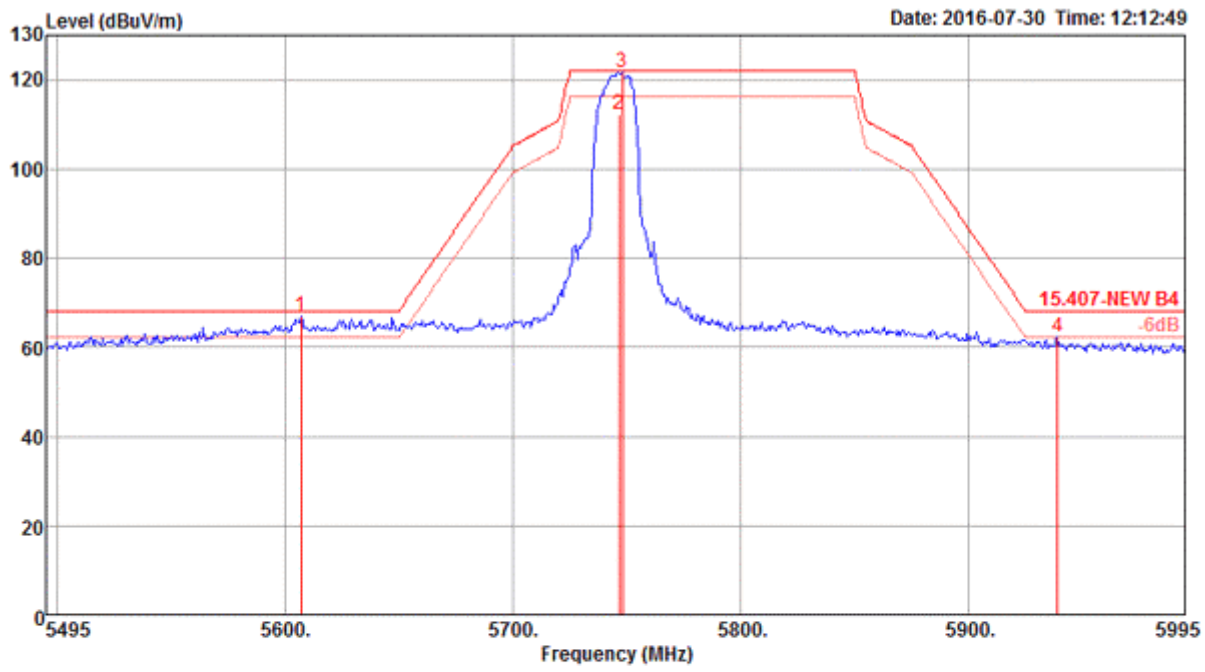


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5123.01	53.37	54.00	-0.63	46.19	6.41	33.69	32.92	177	165	Average	VERTICAL
2	5127.82	65.32	74.00	-8.68	58.09	6.43	33.72	32.92	177	165	Peak	VERTICAL
3	5240.80	121.50			114.01	6.52	33.89	32.92	177	165	Peak	VERTICAL
4	5241.60	112.64			105.15	6.52	33.89	32.92	177	165	Average	VERTICAL
5	5377.82	53.98	54.00	-0.02	46.16	6.64	34.11	32.93	177	165	Average	VERTICAL
6	5377.82	65.04	74.00	-8.96	57.22	6.64	34.11	32.93	177	165	Peak	VERTICAL

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

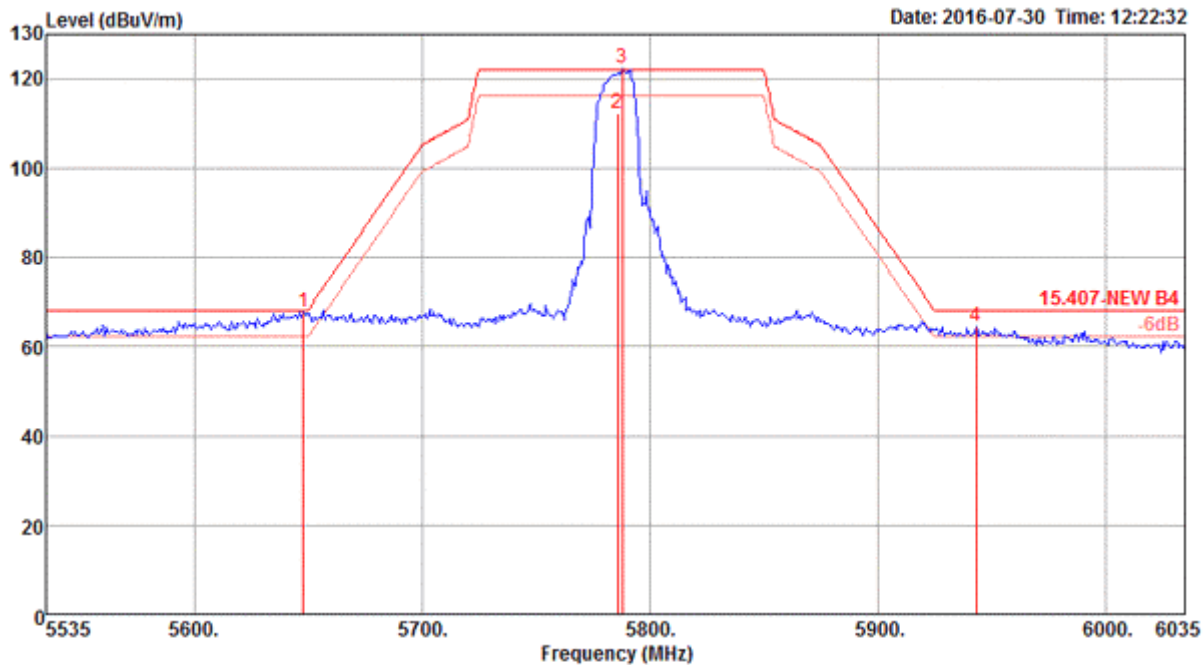
Channel 149



	Freq	Level	Limit 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	5607.00	67.11	68.20	-1.09	58.96	6.75	34.36	32.96	223	169	Peak	VERTICAL
2	5746.60	112.38			104.03	6.90	34.45	33.00	223	169	Average	VERTICAL
3	5748.00	121.58			113.23	6.90	34.45	33.00	223	169	Peak	VERTICAL
4	5939.00	62.30	68.20	-5.90	53.81	6.98	34.56	33.05	223	169	Peak	VERTICAL

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

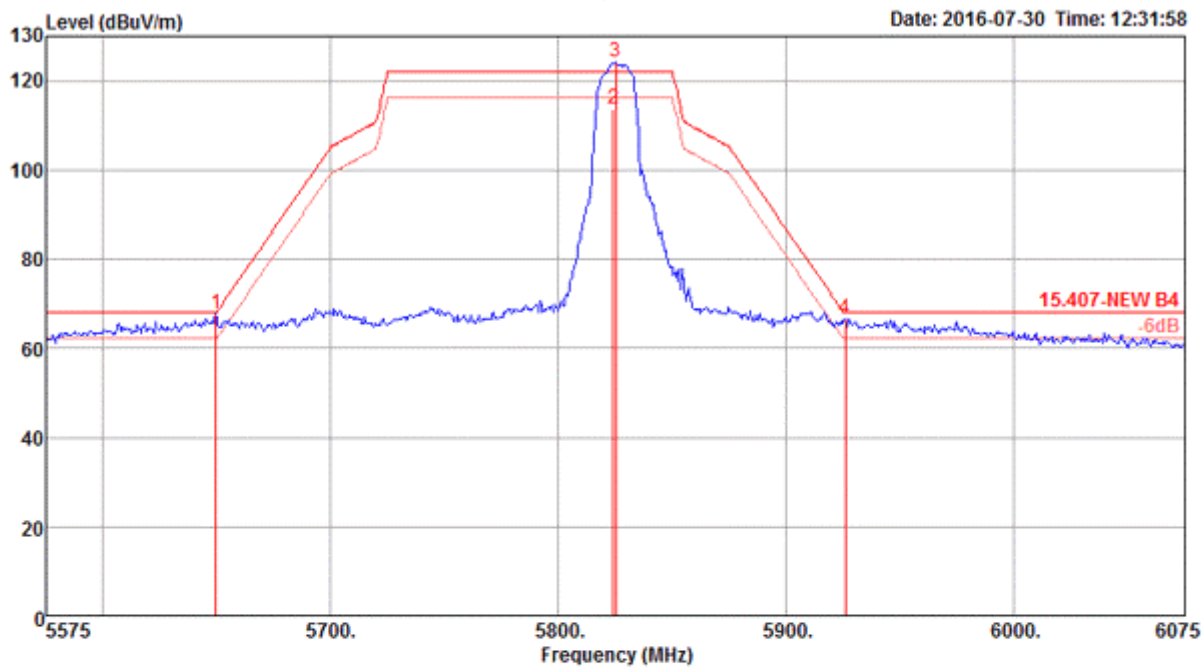
Channel 157



	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	5648.00	67.75	68.20	-0.45	59.53	6.80	34.39	32.97	184	108	Peak	VERTICAL
2	5785.80	112.36			103.97	6.93	34.47	33.01	184	108	Average	VERTICAL
3	5788.00	122.34			113.95	6.93	34.47	33.01	184	108	Peak	VERTICAL
4	5943.50	64.30	68.20	-3.90	55.79	6.99	34.57	33.05	184	108	Peak	VERTICAL

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

Channel 165

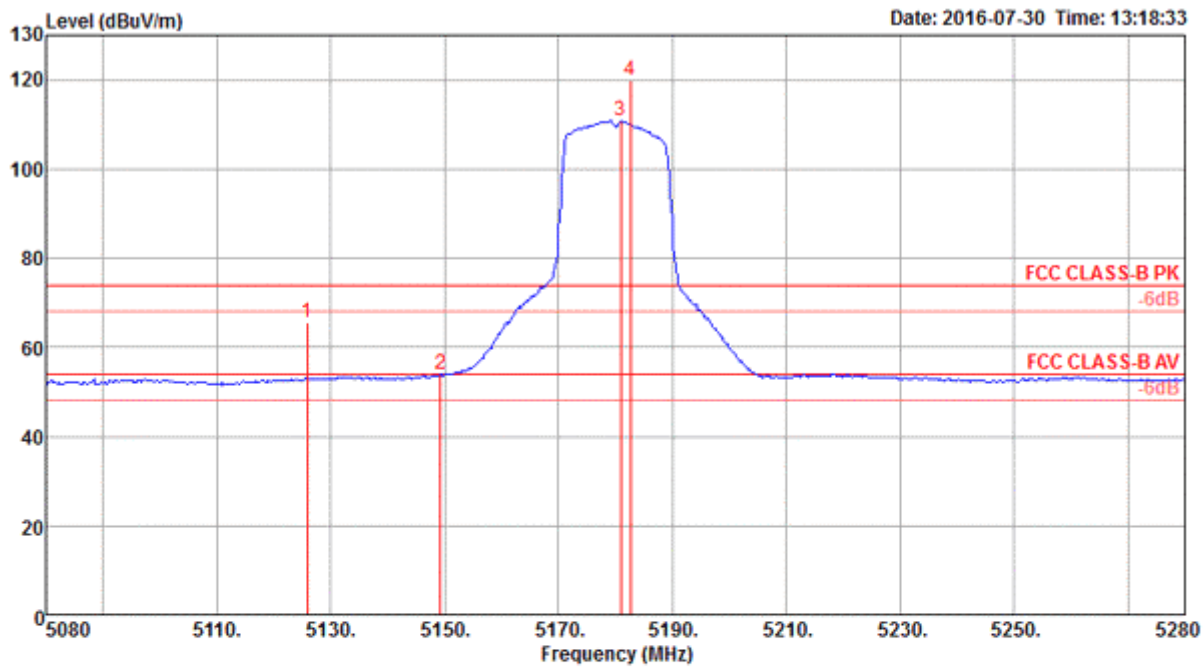


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5649.50	67.60	68.20	-0.60	59.38	6.80	34.39	32.97	188	109	Peak	VERTICAL
2	5824.20	113.76			105.32	6.96	34.50	33.02	188	109	Average	VERTICAL
3	5825.00	124.24			115.80	6.96	34.50	33.02	188	109	Peak	VERTICAL
4	5926.00	66.80	68.20	-1.40	58.30	6.98	34.56	33.04	188	109	Peak	VERTICAL

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

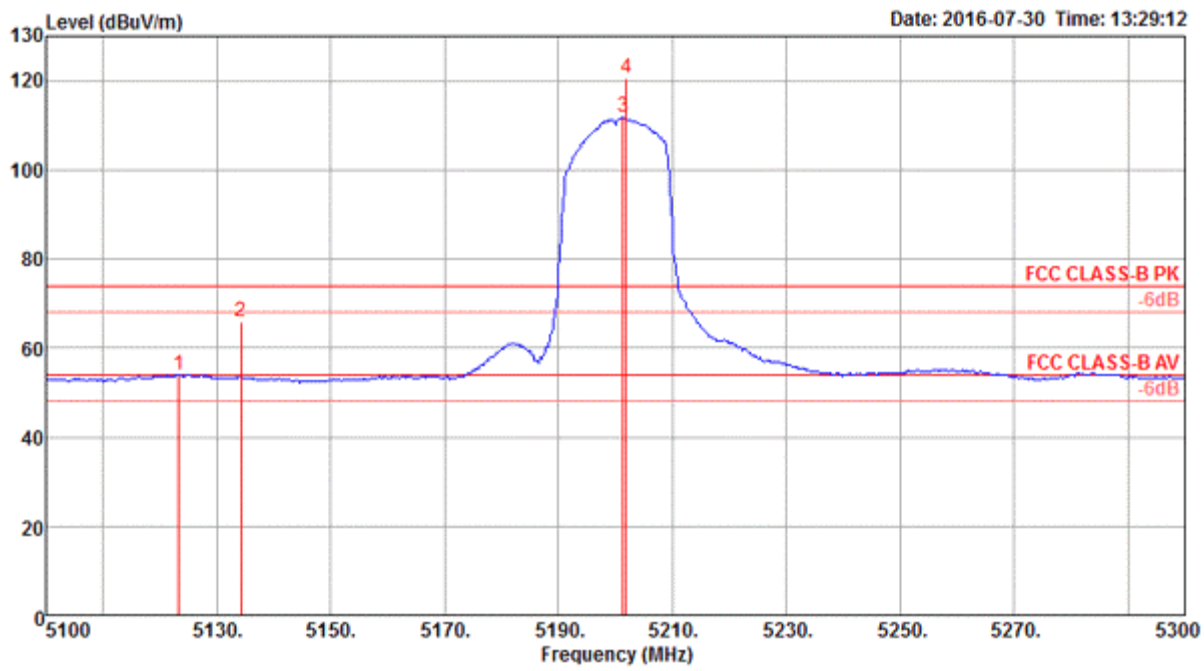
Channel 36



	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	5125.83	65.62	74.00	-8.38	58.44	6.41	33.69	32.92	215	36	Peak	VERTICAL
2	5149.23	53.84	54.00	-0.16	46.58	6.44	33.74	32.92	215	36	Average	VERTICAL
3	5180.96	110.73			103.39	6.47	33.79	32.92	215	36	Average	VERTICAL
4	5182.56	119.95			112.61	6.47	33.79	32.92	215	36	Peak	VERTICAL

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

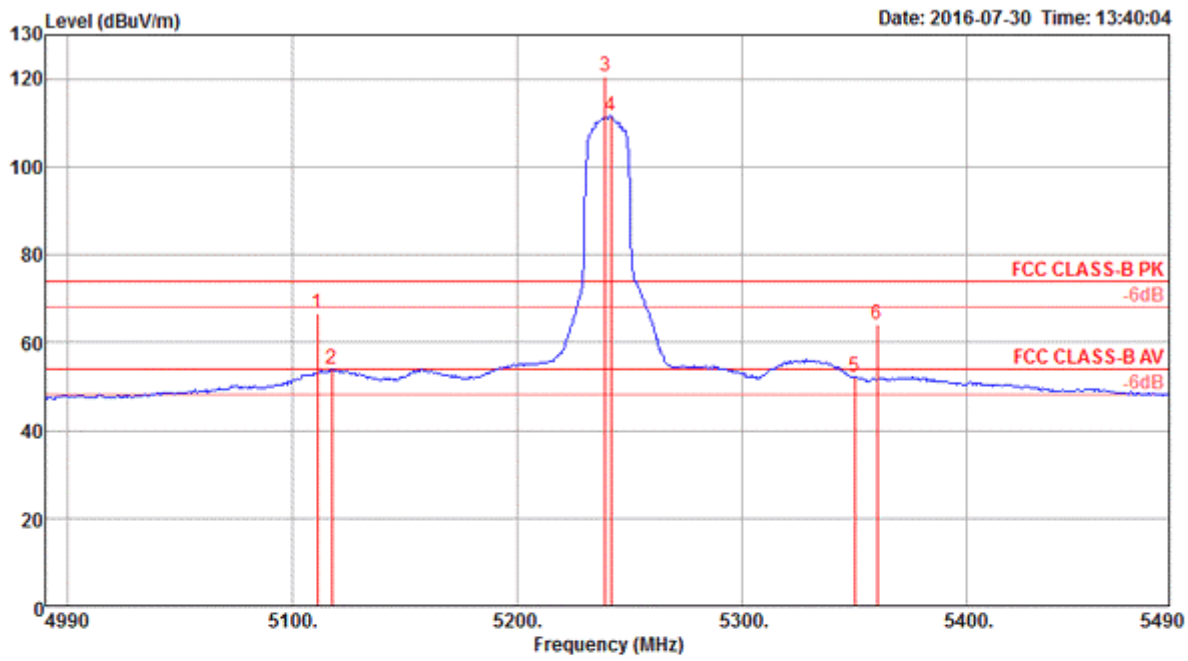
Channel 40



	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	5123.40	53.93	54.00	-0.07	46.75	6.41	33.69	32.92	189	38	Average	VERTICAL
2	5134.30	65.95	74.00	-8.05	58.72	6.43	33.72	32.92	189	38	Peak	VERTICAL
3	5201.28	111.72			104.34	6.48	33.82	32.92	189	38	Average	VERTICAL
4	5201.92	120.73			113.32	6.49	33.84	32.92	189	38	Peak	VERTICAL

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

Channel 48

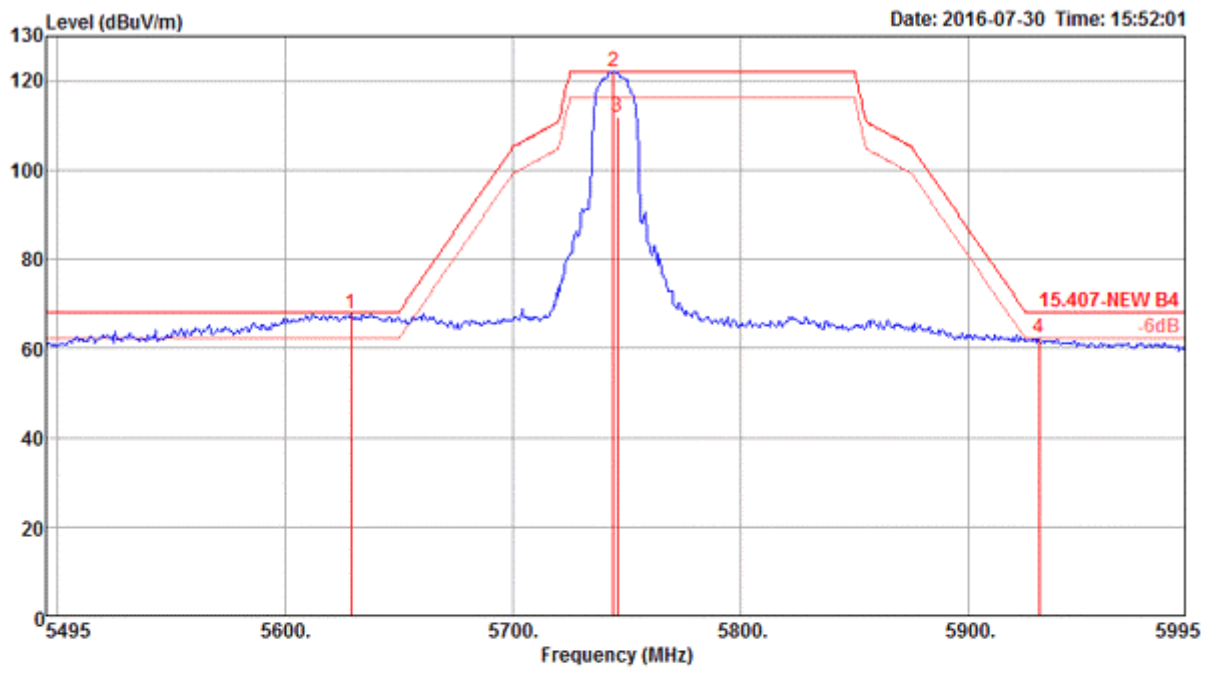


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5110.99	66.76	74.00	-7.24	59.60	6.40	33.67	32.91	204	168	Peak	VERTICAL
2	5117.40	53.78	54.00	-0.22	46.59	6.41	33.69	32.91	204	168	Average	VERTICAL
3	5239.20	120.54			113.05	6.52	33.89	32.92	204	168	Peak	VERTICAL
4	5241.60	111.67			104.18	6.52	33.89	32.92	204	168	Average	VERTICAL
5	5350.00	52.16	54.00	-1.84	44.41	6.61	34.06	32.92	204	168	Average	VERTICAL
6	5360.19	63.96	74.00	-10.04	56.18	6.62	34.08	32.92	204	168	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

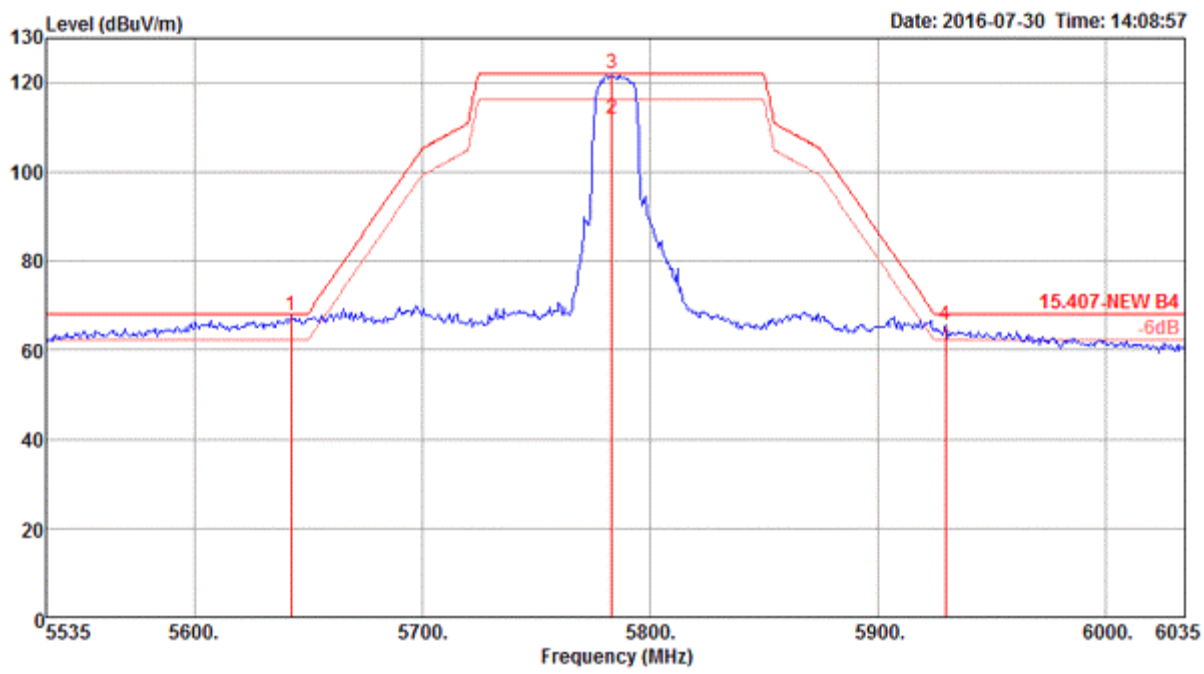
Channel 149



	Freq	Level	Limit 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	5629.00	67.78	68.20	-0.42	59.58	6.78	34.38	32.96	221	169	Peak	VERTICAL
2	5744.00	122.18			113.82	6.90	34.45	32.99	221	169	Peak	VERTICAL
3	5745.80	111.91			103.56	6.90	34.45	33.00	221	169	Average	VERTICAL
4	5931.00	62.12	68.20	-6.08	53.62	6.98	34.56	33.04	221	169	Peak	VERTICAL

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

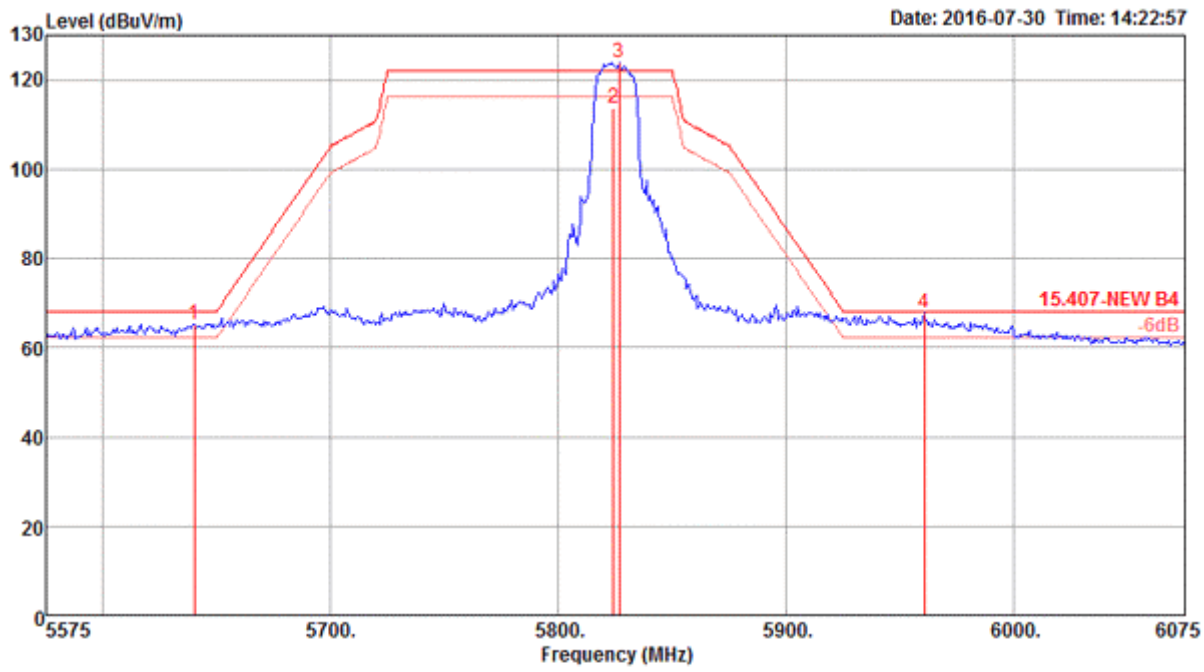
Channel 157



	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	5642.50	67.54	68.20	-0.66	59.32	6.80	34.39	32.97	186	109	Peak	VERTICAL
2	5783.40	111.93			103.54	6.93	34.47	33.01	186	109	Average	VERTICAL
3	5783.50	121.99			113.60	6.93	34.47	33.01	186	109	Peak	VERTICAL
4	5930.00	65.56	68.20	-2.64	57.06	6.98	34.56	33.04	186	109	Peak	VERTICAL

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

Channel 165

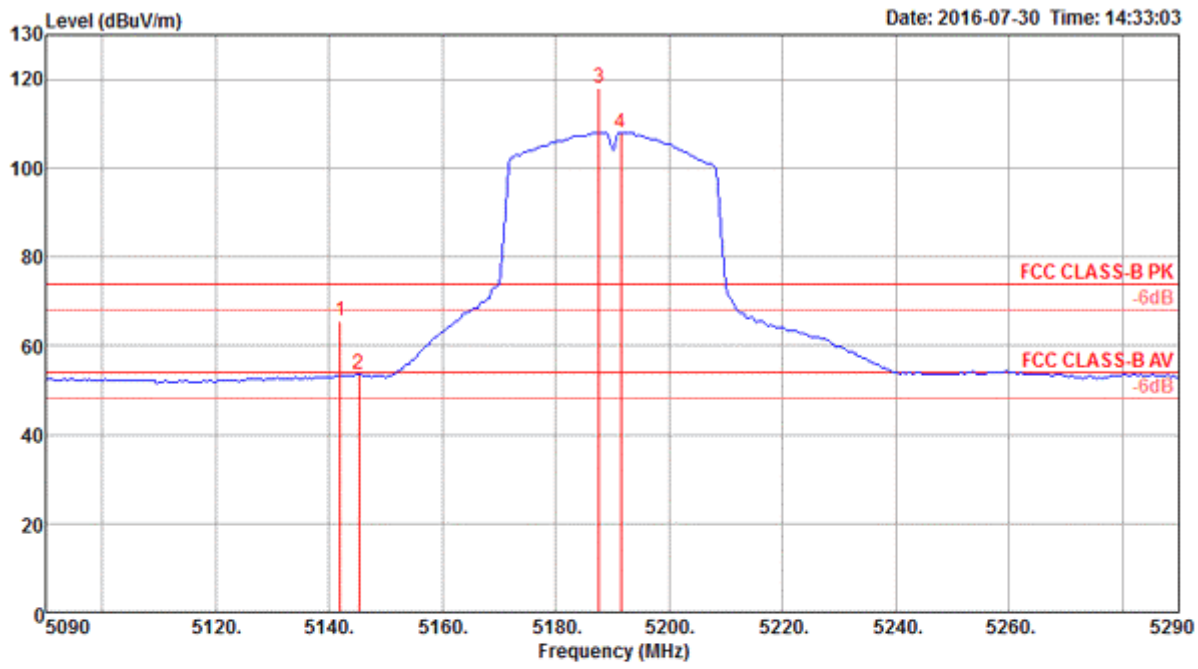


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5640.00	65.34	68.20	-2.86	57.15	6.78	34.38	32.97	187	110	Peak	VERTICAL
2	5824.20	113.55			105.11	6.96	34.50	33.02	187	110	Average	VERTICAL
3	5826.50	123.72			115.28	6.96	34.50	33.02	187	110	Peak	VERTICAL
4	5960.50	67.68	68.20	-0.52	59.16	6.99	34.58	33.05	187	110	Peak	VERTICAL

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

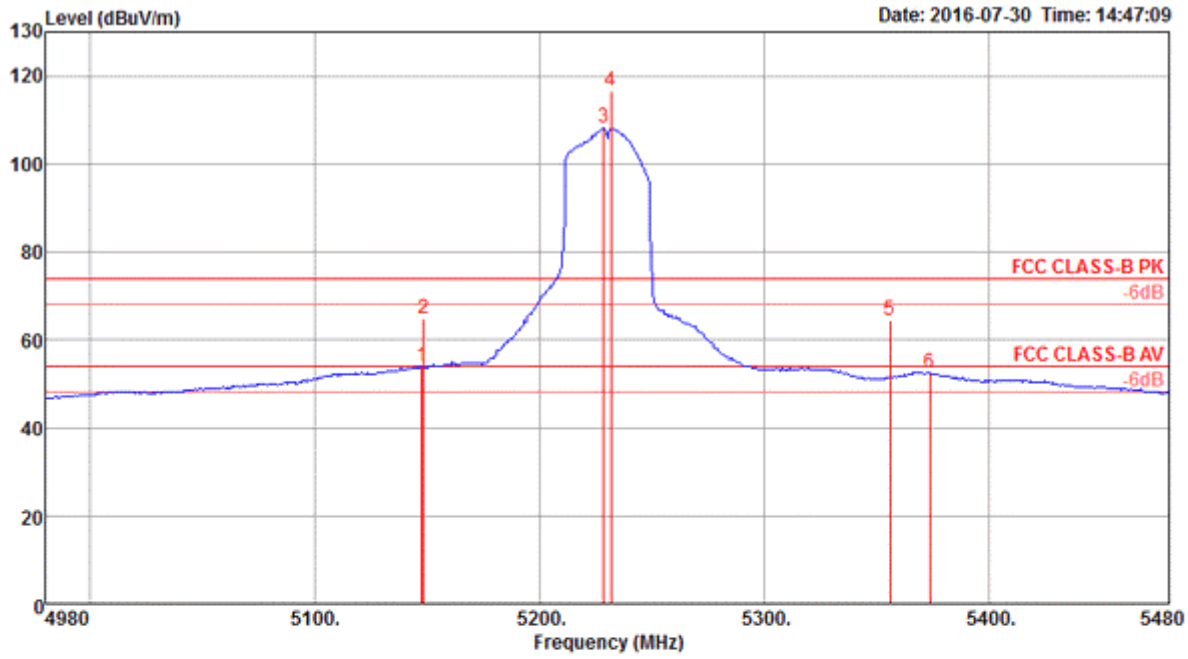
Channel 38



	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	5141.92	65.59	74.00	-8.41	58.33	6.44	33.74	32.92	190	38	Peak	VERTICAL
2	5145.29	53.75	54.00	-0.25	46.49	6.44	33.74	32.92	190	38	Average	VERTICAL
3	5187.60	117.87			110.49	6.48	33.82	32.92	190	38	Peak	VERTICAL
4	5191.44	108.08			100.70	6.48	33.82	32.92	190	38	Average	VERTICAL

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

Channel 46

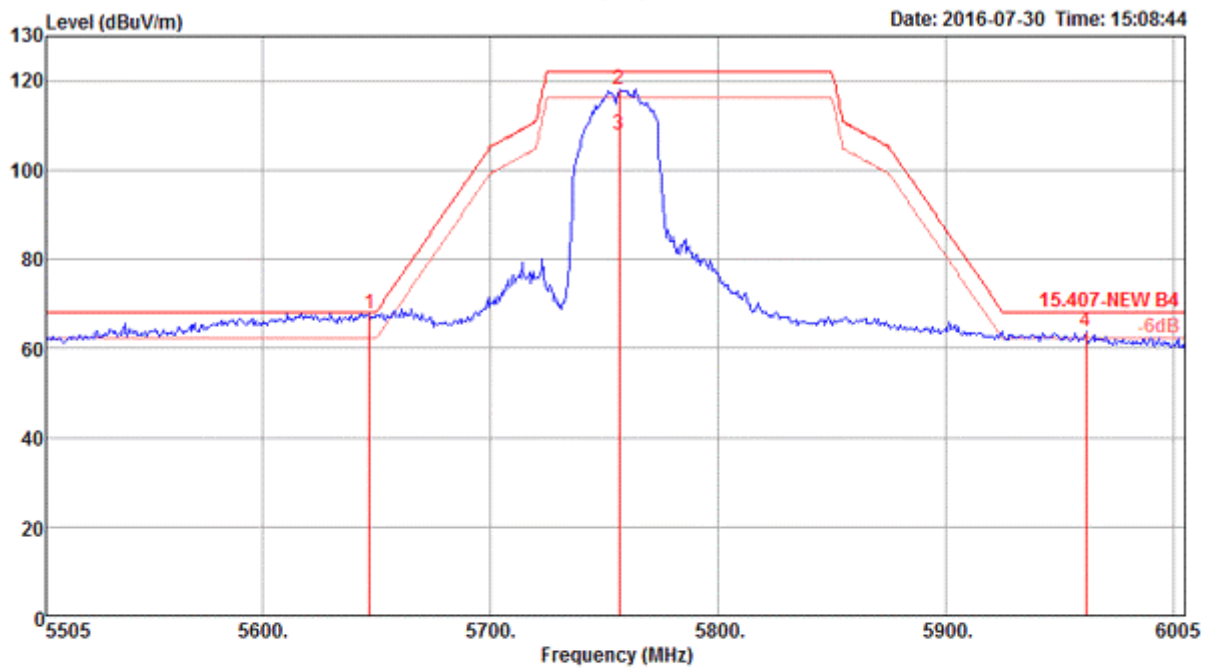


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5147.47	53.81	54.00	-0.19	46.55	6.44	33.74	32.92	185	7	Average	VERTICAL
2	5148.27	64.68	74.00	-9.32	57.42	6.44	33.74	32.92	185	7	Peak	VERTICAL
3	5228.40	108.23			100.78	6.51	33.86	32.92	185	7	Average	VERTICAL
4	5231.60	116.66			109.21	6.51	33.86	32.92	185	7	Peak	VERTICAL
5	5355.80	64.37	74.00	-9.63	56.59	6.62	34.08	32.92	185	7	Peak	VERTICAL
6	5373.43	52.63	54.00	-1.37	44.81	6.64	34.11	32.93	185	7	Average	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

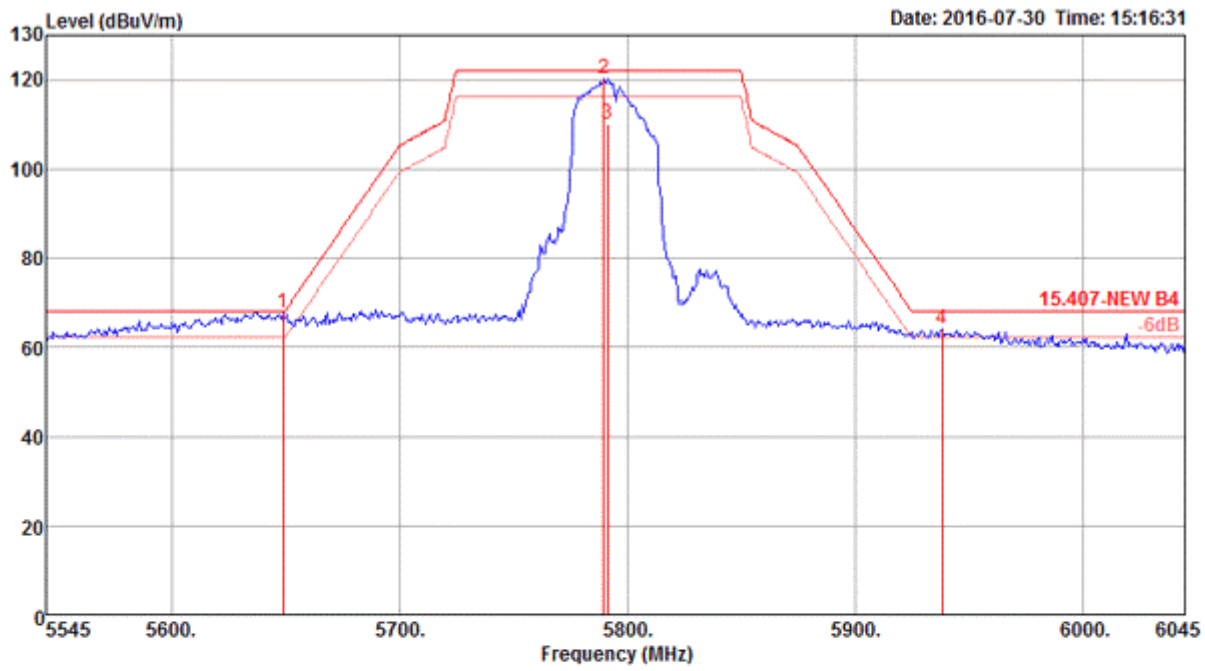
Channel 151



	Freq	Level	Limit 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	5647.00	67.71	68.20	-0.49	59.49	6.80	34.39	32.97	175	359	Peak	VERTICAL
2	5756.50	118.06			109.68	6.92	34.46	33.00	175	359	Peak	VERTICAL
3	5756.60	108.08			99.70	6.92	34.46	33.00	175	359	Average	VERTICAL
4	5961.50	63.88	68.20	-4.32	55.36	6.99	34.58	33.05	175	359	Peak	VERTICAL

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

Channel 159

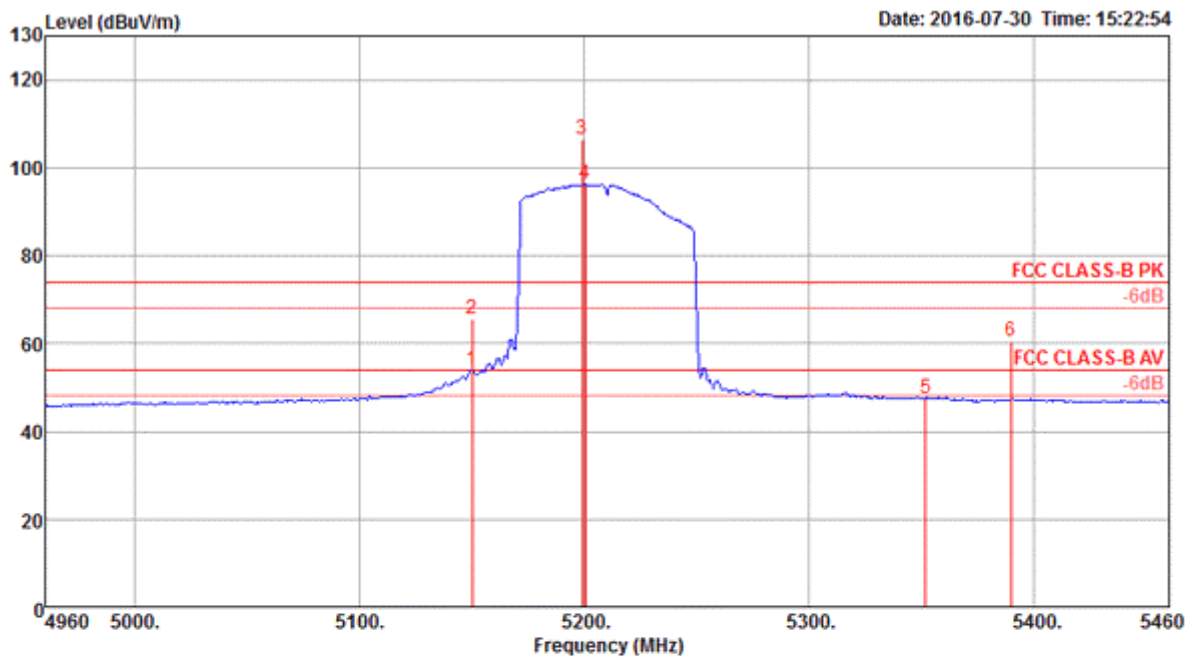


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5649.00	67.74	68.20	-0.46	59.52	6.80	34.39	32.97	219	168	Peak	VERTICAL
2	5790.00	120.17			111.75	6.95	34.48	33.01	219	168	Peak	VERTICAL
3	5791.80	110.06			101.64	6.95	34.48	33.01	219	168	Average	VERTICAL
4	5938.50	63.98	68.20	-4.22	55.49	6.98	34.56	33.05	219	168	Peak	VERTICAL

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

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

Channel 42

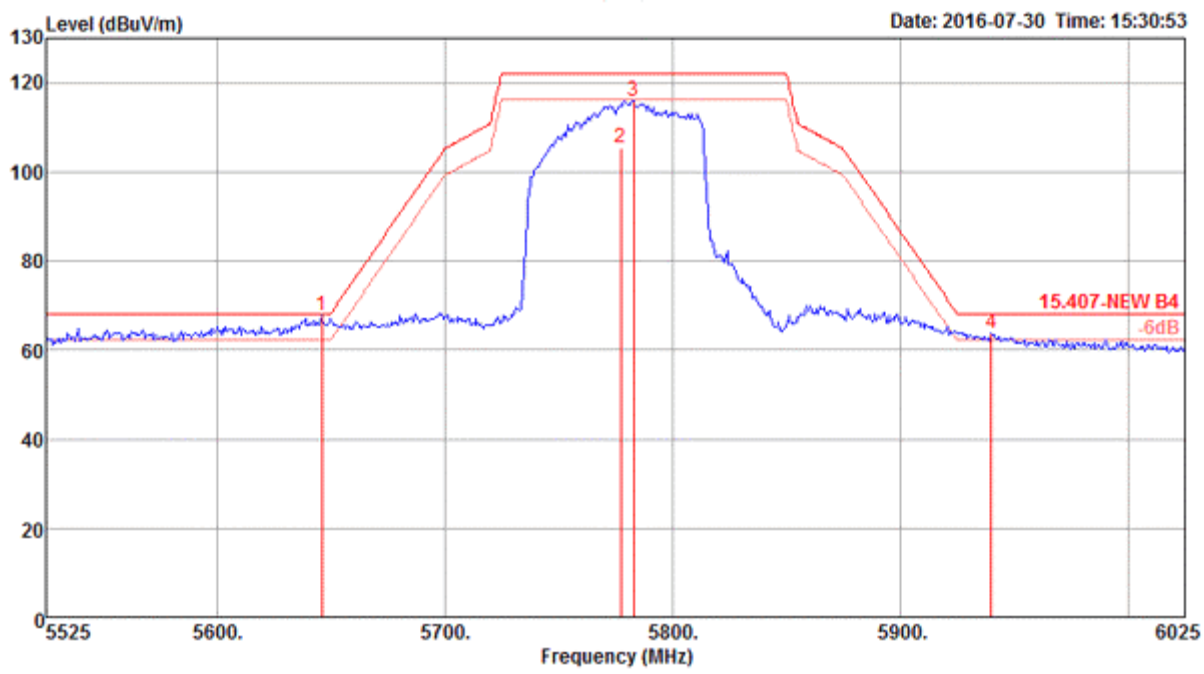


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5150.00	53.85	54.00	-0.15	46.59	6.44	33.74	32.92	202	39	Average	VERTICAL
2	5150.00	65.47	74.00	-8.53	58.21	6.44	33.74	32.92	202	39	Peak	VERTICAL
3	5198.78	106.44			99.06	6.48	33.82	32.92	202	39	Peak	VERTICAL
4	5200.39	96.18			88.80	6.48	33.82	32.92	202	39	Average	VERTICAL
5	5351.83	47.59	54.00	-6.41	39.84	6.61	34.06	32.92	202	39	Average	VERTICAL
6	5389.49	60.60	74.00	-13.40	52.75	6.65	34.13	32.93	202	39	Peak	VERTICAL

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

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

Channel 155



	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	5646.00	67.84	68.20	-0.36	59.62	6.80	34.39	32.97	172	108	Peak	VERTICAL
2	5777.40	105.45			97.05	6.93	34.47	33.00	172	108	Average	VERTICAL
3	5783.00	115.93			107.54	6.93	34.47	33.01	172	108	Peak	VERTICAL
4	5940.00	63.82	68.20	-4.38	55.33	6.98	34.56	33.05	172	108	Peak	VERTICAL

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

Note:

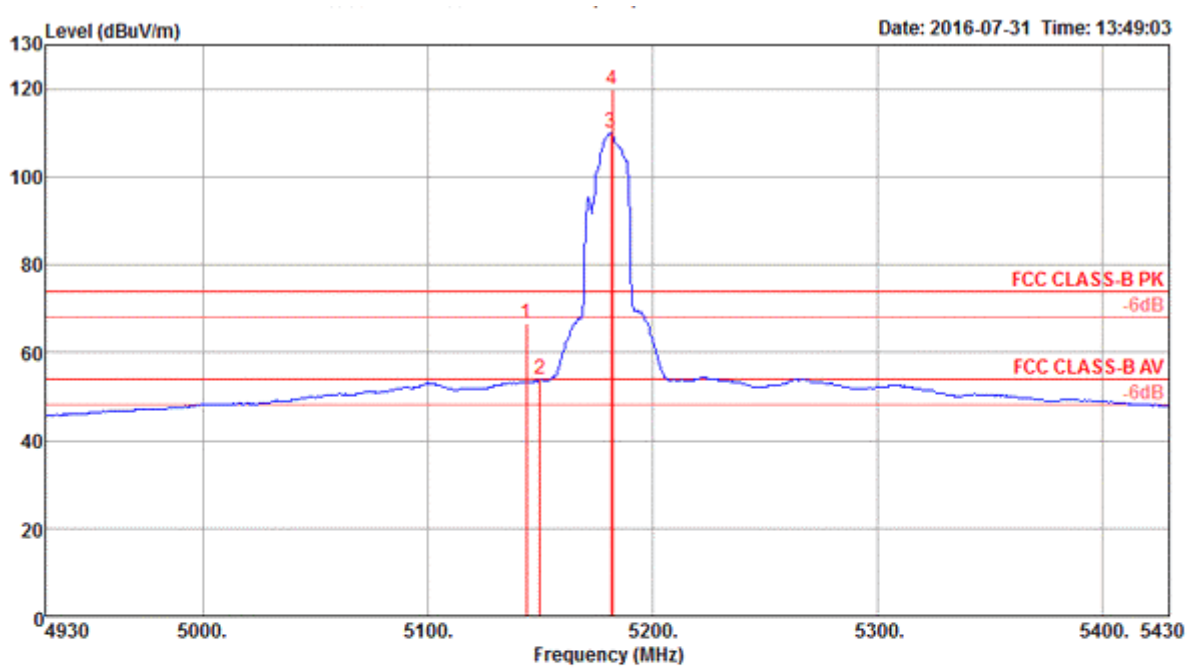
Emission level (dBuV/m) = 20 log Emission level (uV/m)

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

<For Beamforming Mode>

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

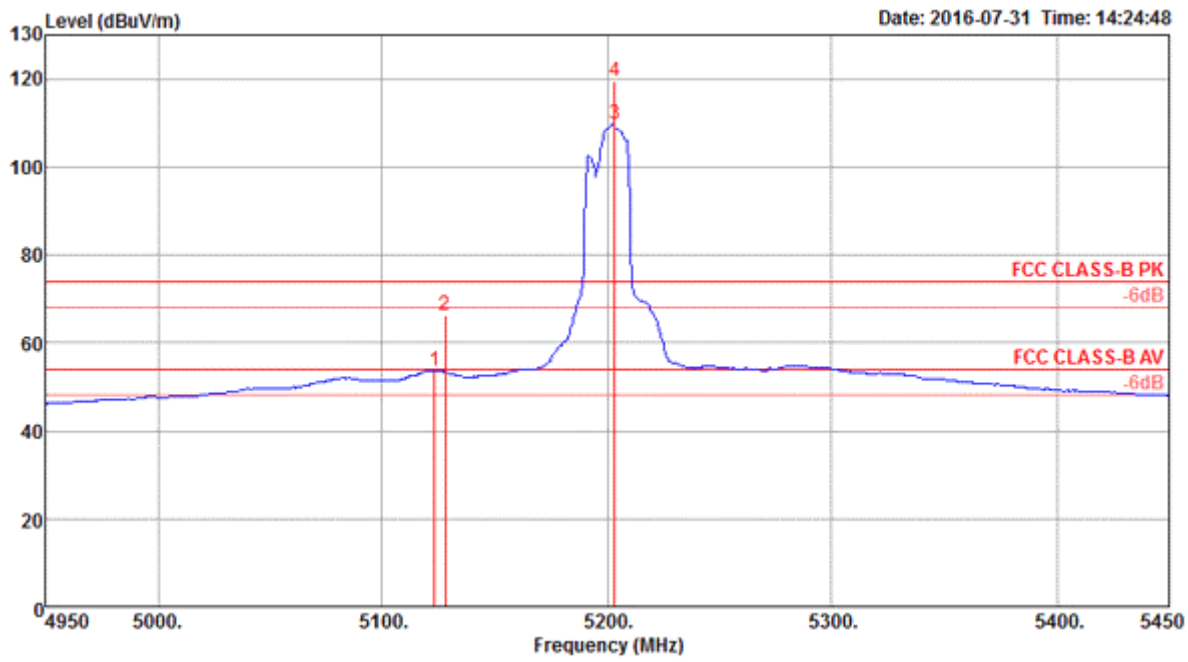
Channel 36



	Freq	Level	Limit 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	5143.94	66.80	74.00	-7.20	59.54	6.44	33.74	32.92	173	350	Peak	VERTICAL
2	5150.00	53.79	54.00	-0.21	46.53	6.44	33.74	32.92	173	350	Average	VERTICAL
3	5181.60	110.07			102.73	6.47	33.79	32.92	173	350	Average	VERTICAL
4	5182.40	119.76			112.42	6.47	33.79	32.92	173	350	Peak	VERTICAL

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

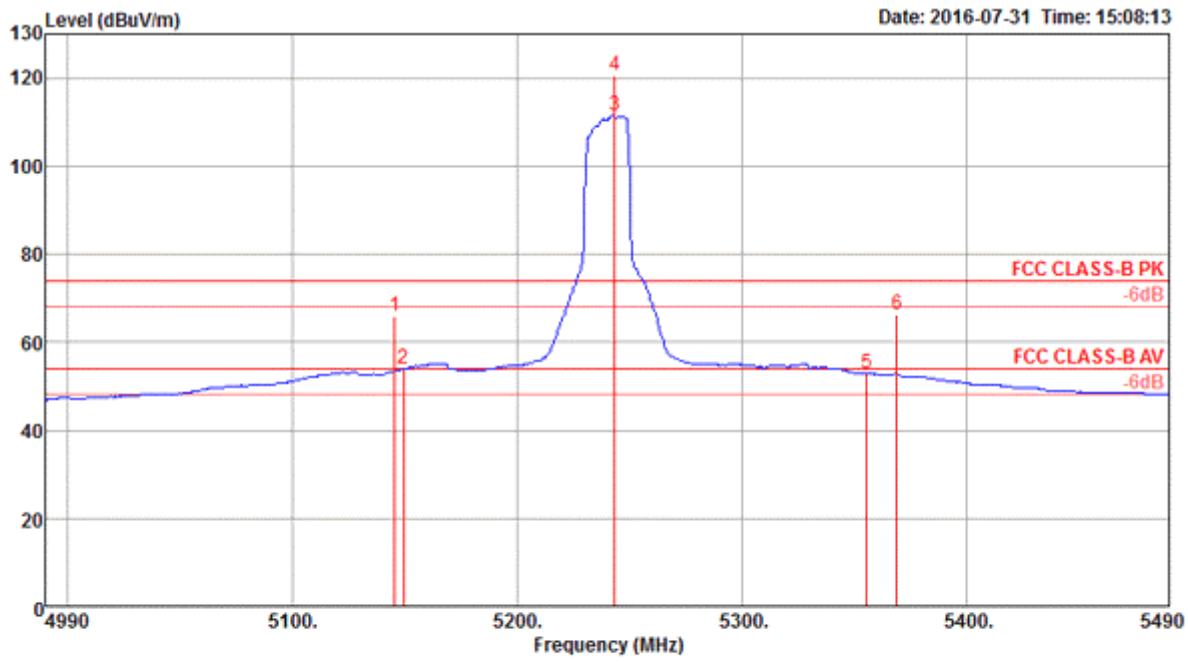
Channel 40



	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	5123.08	53.71	54.00	-0.29	46.53	6.41	33.69	32.92	188	146	Average	VERTICAL
2	5127.89	66.17	74.00	-7.83	58.94	6.43	33.72	32.92	188	146	Peak	VERTICAL
3	5203.21	109.82			102.41	6.49	33.84	32.92	188	146	Average	VERTICAL
4	5203.21	119.65			112.24	6.49	33.84	32.92	188	146	Peak	VERTICAL

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

Channel 48

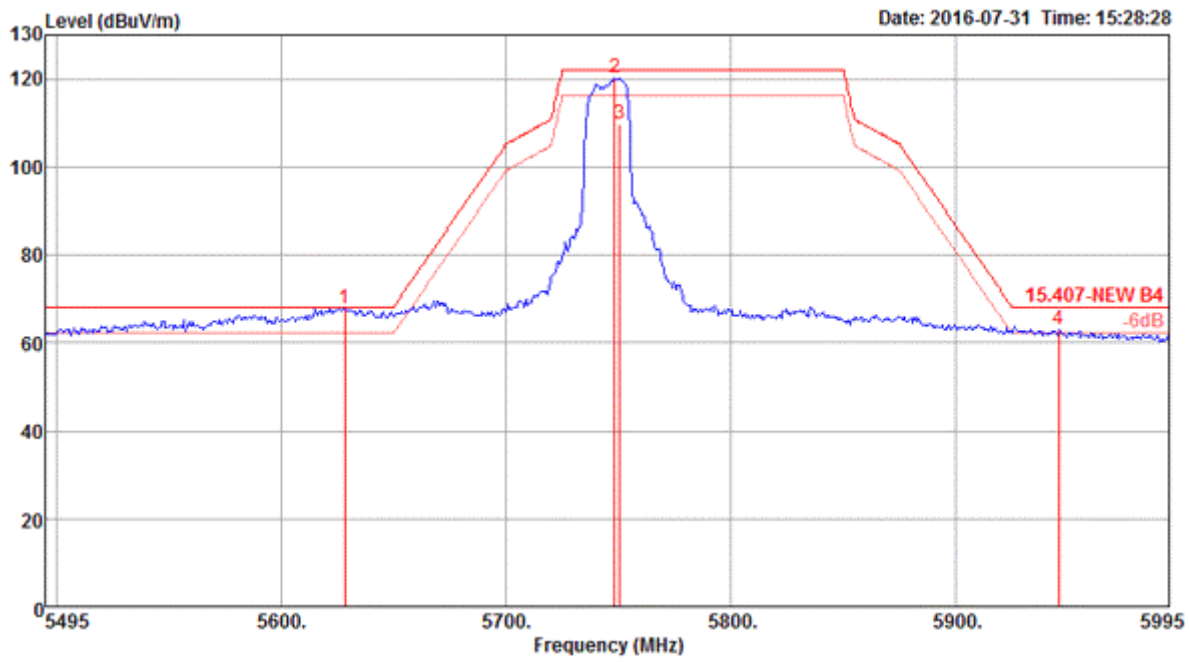


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5145.45	65.92	74.00	-8.08	58.66	6.44	33.74	32.92	170	143	Peak	VERTICAL
2	5149.46	53.80	54.00	-0.20	46.54	6.44	33.74	32.92	170	143	Average	VERTICAL
3	5243.21	111.66			104.17	6.52	33.89	32.92	170	143	Average	VERTICAL
4	5243.21	120.75			113.26	6.52	33.89	32.92	170	143	Peak	VERTICAL
5	5355.39	52.95	54.00	-1.05	45.17	6.62	34.08	32.92	170	143	Average	VERTICAL
6	5369.01	66.36	74.00	-7.64	58.59	6.62	34.08	32.93	170	143	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

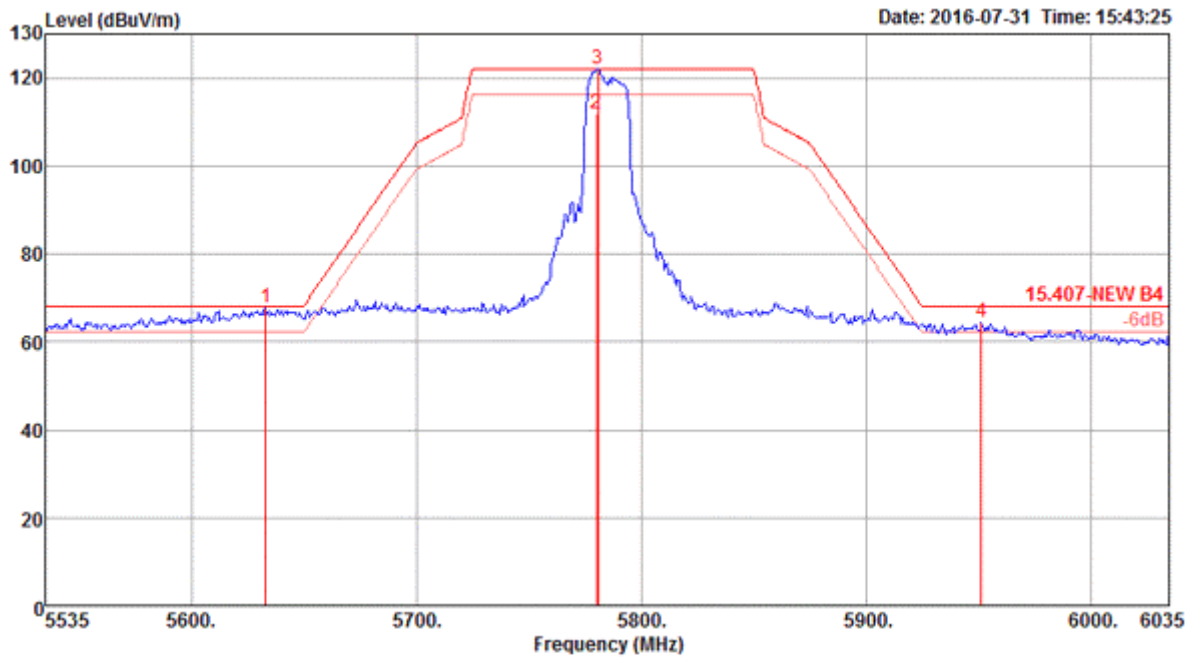
Channel 149



	Freq	Level	Limit 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	5628.00	67.88	68.20	-0.32	59.68	6.78	34.38	32.96	192	96	Peak	VERTICAL
2	5748.21	120.23			111.88	6.90	34.45	33.00	192	96	Peak	VERTICAL
3	5750.61	109.85			101.50	6.90	34.45	33.00	192	96	Average	VERTICAL
4	5946.00	63.07	68.20	-5.13	54.56	6.99	34.57	33.05	192	96	Peak	VERTICAL

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

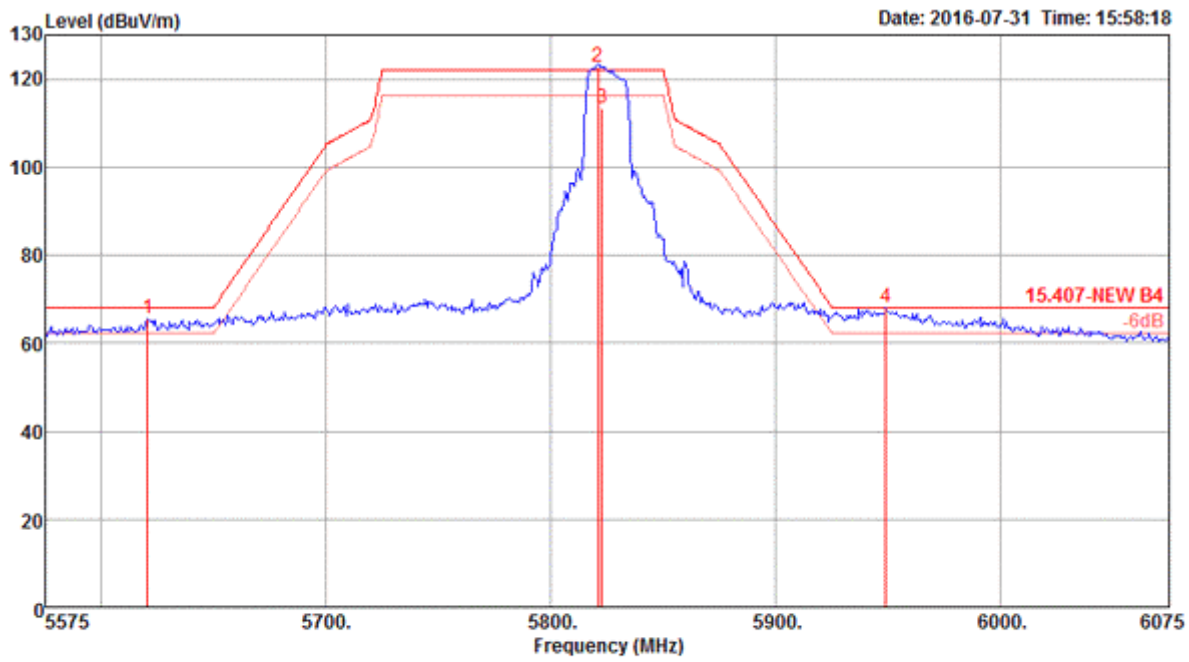
Channel 157



	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	5633.00	67.86	68.20	-0.34	59.66	6.78	34.38	32.96	196	90	Peak	VERTICAL
2	5780.19	111.92			103.52	6.93	34.47	33.00	196	90	Average	VERTICAL
3	5780.99	122.15			113.75	6.93	34.47	33.00	196	90	Peak	VERTICAL
4	5951.50	64.32	68.20	-3.88	55.81	6.99	34.57	33.05	196	90	Peak	VERTICAL

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

Channel 165

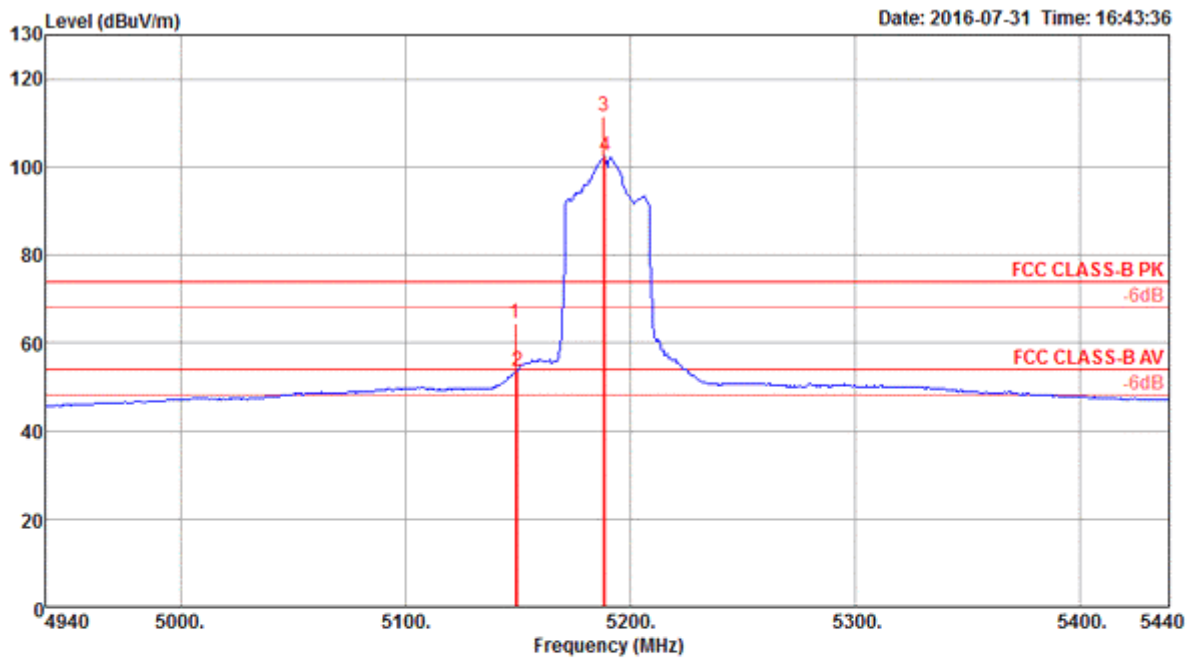


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5620.50	65.38	68.20	-2.82	57.20	6.77	34.37	32.96	180	85	Peak	VERTICAL
2	5820.99	122.84			114.42	6.95	34.49	33.02	180	85	Peak	VERTICAL
3	5822.60	113.33			104.89	6.96	34.50	33.02	180	85	Average	VERTICAL
4	5949.00	68.01	68.20	-0.19	59.50	6.99	34.57	33.05	180	85	Peak	VERTICAL

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

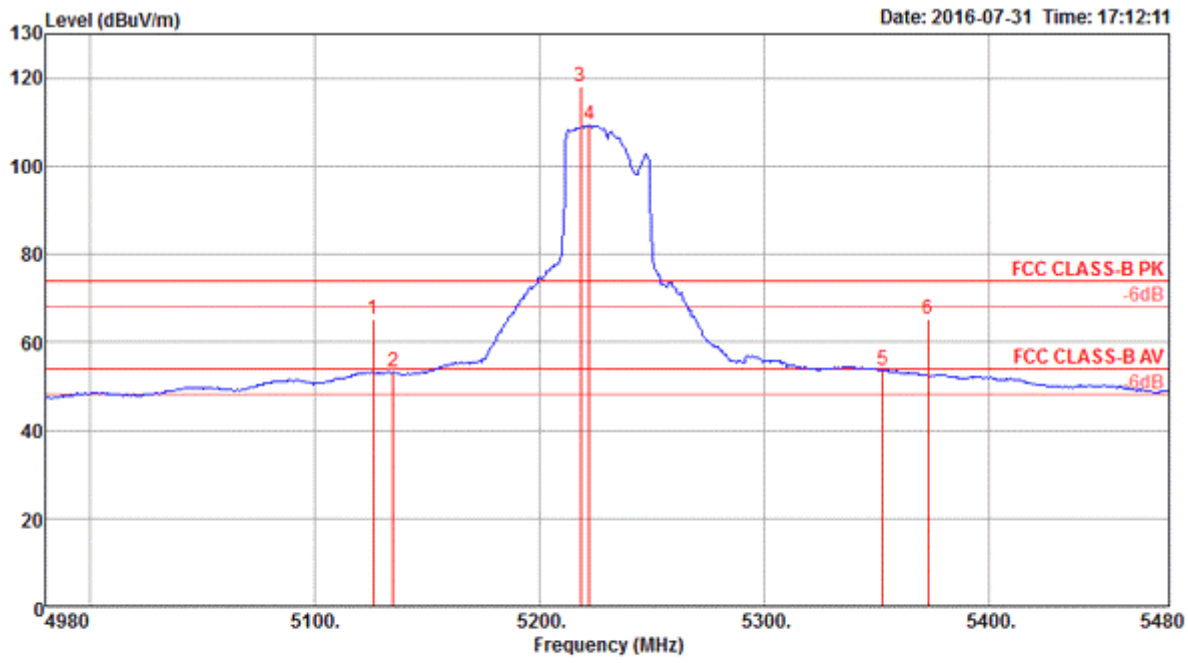
Channel 38



	Freq	Level	Limit Line	Over Limit	Read Level	CableLoss	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	5149.14	64.50	74.00	-9.50	57.24	6.44	33.74	32.92	188	0	Peak	VERTICAL
2	5150.00	53.73	54.00	-0.27	46.47	6.44	33.74	32.92	188	0	Average	VERTICAL
3	5188.40	111.37			103.99	6.48	33.82	32.92	188	0	Peak	VERTICAL
4	5189.20	102.40			95.02	6.48	33.82	32.92	188	0	Average	VERTICAL

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

Channel 46

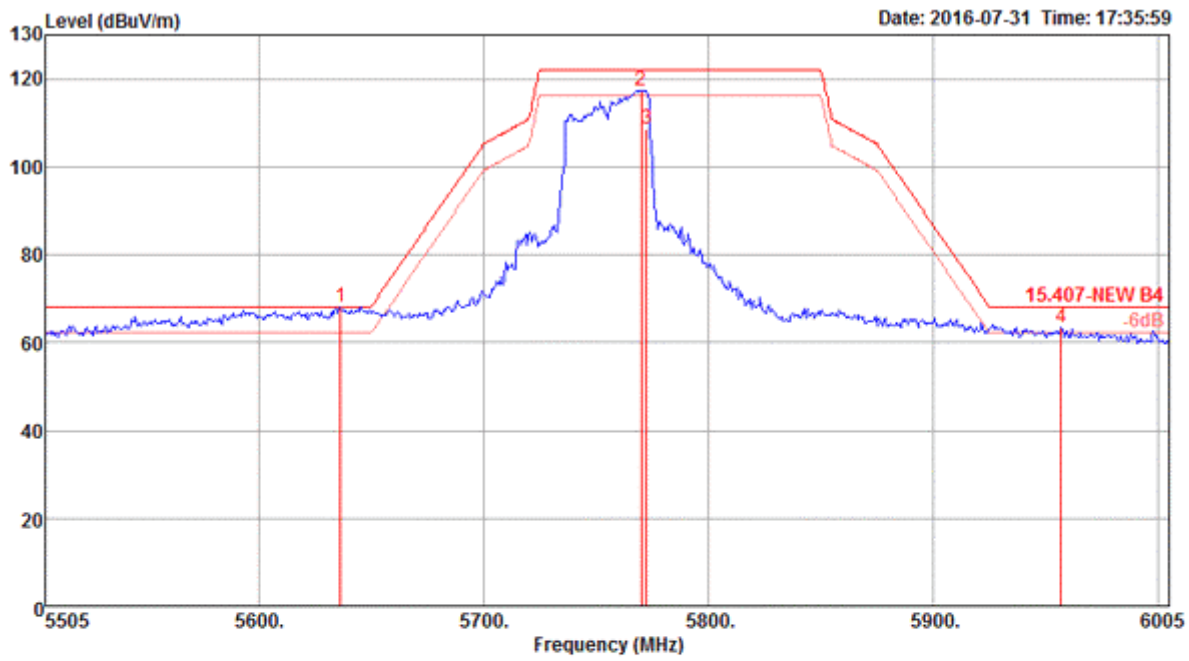


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5125.83	65.31	74.00	-8.69	58.13	6.41	33.69	32.92	192	95	Peak	VERTICAL
2	5134.65	53.32	54.00	-0.68	46.09	6.43	33.72	32.92	192	95	Average	VERTICAL
3	5217.98	117.87			110.42	6.51	33.86	32.92	192	95	Peak	VERTICAL
4	5221.99	109.22			101.77	6.51	33.86	32.92	192	95	Average	VERTICAL
5	5352.60	53.66	54.00	-0.34	45.91	6.61	34.06	32.92	192	95	Average	VERTICAL
6	5372.63	65.25	74.00	-8.75	57.43	6.64	34.11	32.93	192	95	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

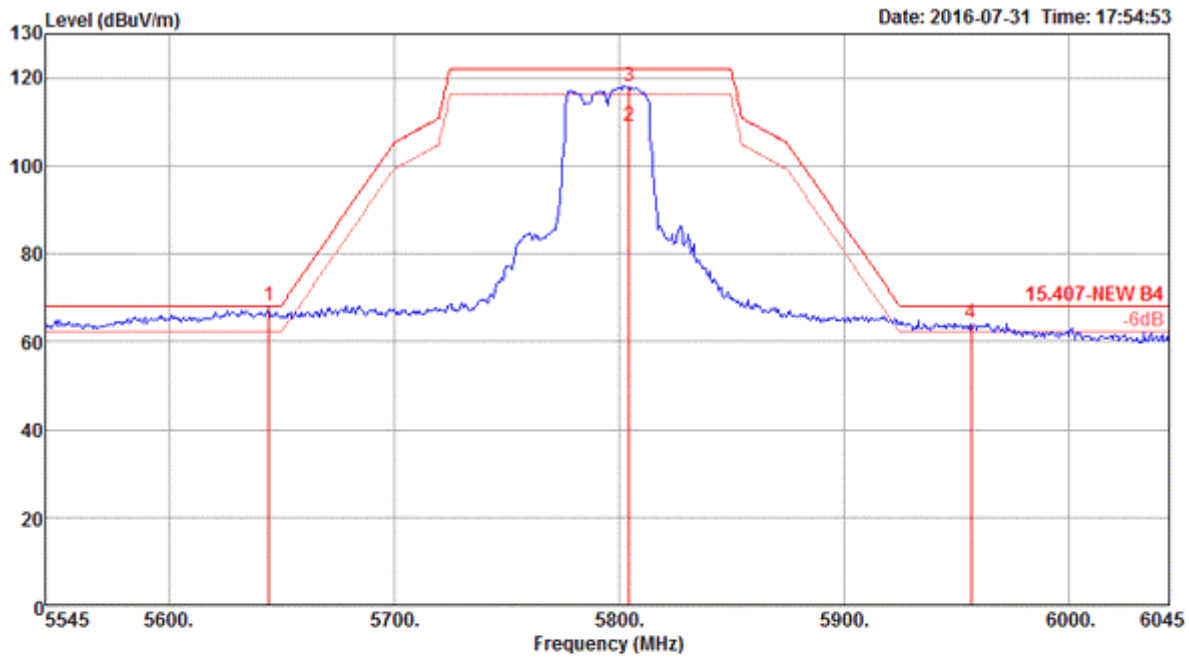
Channel 151



	Freq	Level	Limit 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	5636.50	67.99	68.20	-0.21	59.80	6.78	34.38	32.97	170	95	Peak	VERTICAL
2	5770.22	117.30			108.92	6.92	34.46	33.00	170	95	Peak	VERTICAL
3	5772.63	108.66			100.26	6.93	34.47	33.00	170	95	Average	VERTICAL
4	5957.00	63.49	68.20	-4.71	54.98	6.99	34.57	33.05	170	95	Peak	VERTICAL

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

Channel 159

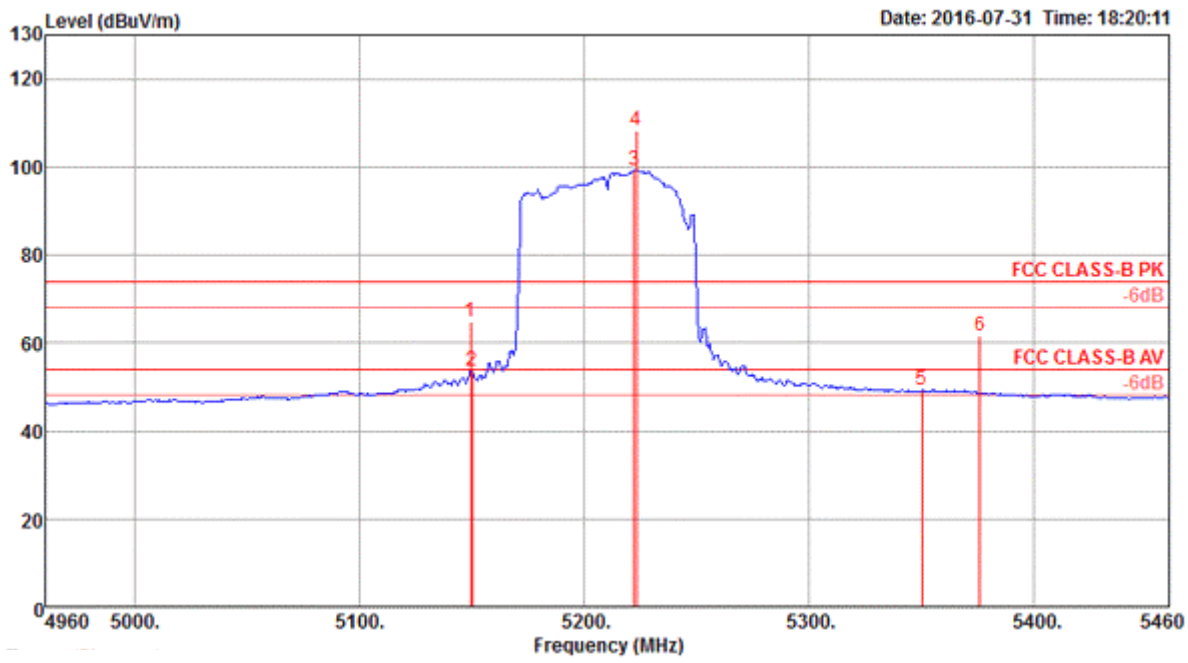


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5644.50	67.94	68.20	-0.26	59.72	6.80	34.39	32.97	178	98	Peak	VERTICAL
2	5804.62	108.93			100.51	6.95	34.48	33.01	178	98	Average	VERTICAL
3	5804.62	118.19			109.77	6.95	34.48	33.01	178	98	Peak	VERTICAL
4	5957.00	64.27	68.20	-3.93	55.76	6.99	34.57	33.05	178	98	Peak	VERTICAL

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

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

Channel 42

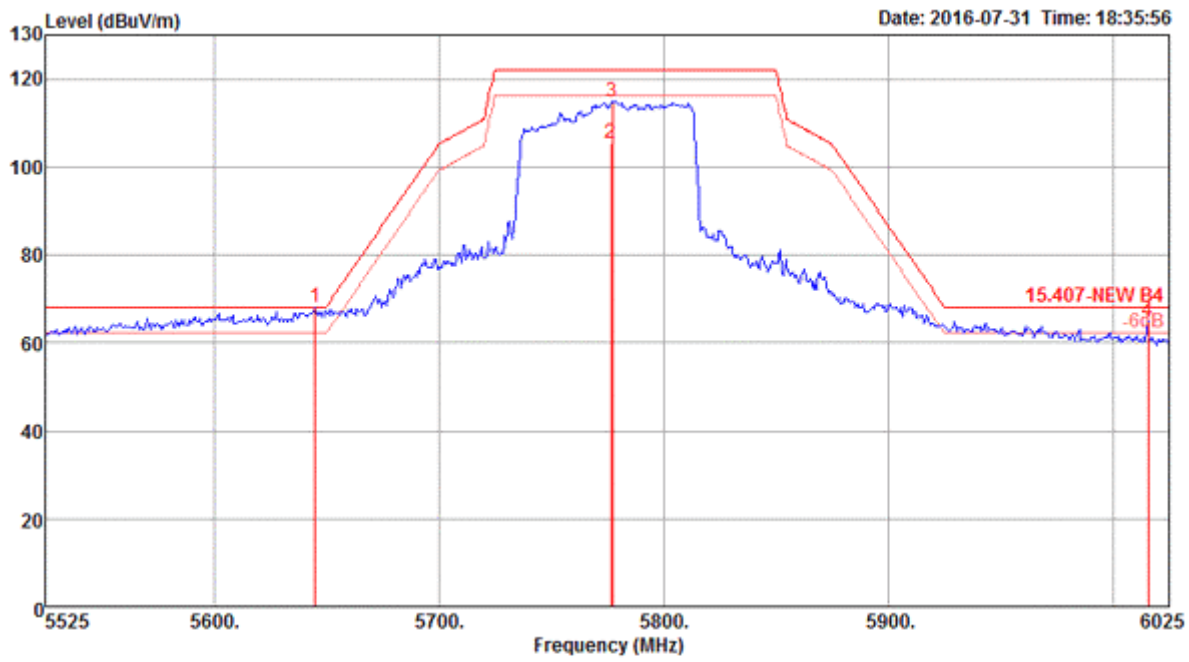


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.10	64.75	74.00	-9.25	57.49	6.44	33.74	32.92	196	108	Peak	VERTICAL
2	5150.00	53.69	54.00	-0.31	46.43	6.44	33.74	32.92	196	108	Average	VERTICAL
3	5222.02	99.28			91.83	6.51	33.86	32.92	196	108	Average	VERTICAL
4	5222.82	108.29			100.84	6.51	33.86	32.92	196	108	Peak	VERTICAL
5	5350.00	49.13	54.00	-4.87	41.38	6.61	34.06	32.92	196	108	Average	VERTICAL
6	5375.87	61.61	74.00	-12.39	53.79	6.64	34.11	32.93	196	108	Peak	VERTICAL

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

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

Channel 155



	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	5645.00	67.97	68.20	-0.23	59.75	6.80	34.39	32.97	171	96	Peak	VERTICAL
2	5776.60	105.49			97.09	6.93	34.47	33.00	171	96	Average	VERTICAL
3	5777.40	114.86			106.46	6.93	34.47	33.00	171	96	Peak	VERTICAL
4	6015.50	64.80	68.20	-3.40	56.24	7.02	34.60	33.06	171	96	Peak	VERTICAL

Item 2, 3 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	5199.9989	5199.9988	5199.9987	5199.9980
110.00	5199.9987	5199.9980	5199.9975	5199.9972
93.50	5199.9977	5199.9969	5199.9965	5199.9957
Max. Deviation (MHz)	0.0023	0.0031	0.0035	0.0043
Max. Deviation (ppm)	0.44	0.60	0.67	0.83
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5199.9997	5199.9994	5199.9985	5199.9984
10	5199.9990	5199.9982	5199.9973	5199.9966
20	5199.9987	5199.9982	5199.9976	5199.9968
30	5199.9985	5199.9977	5199.9976	5199.9966
40	5199.9973	5199.9965	5199.9962	5199.9952
Max. Deviation (MHz)	0.0027	0.0035	0.0038	0.0048
Max. Deviation (ppm)	0.52	0.67	0.73	0.92
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9995	5784.9994	5784.9992	5784.9990
110.00	5784.9987	5784.9981	5784.9973	5784.9965
93.50	5784.9980	5784.9978	5784.9971	5784.9966
Max. Deviation (MHz)	0.0020	0.0022	0.0029	0.0035
Max. Deviation (ppm)	0.35	0.38	0.50	0.61
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5785.0011	5785.0010	5785.0008	5785.0005
10	5784.9997	5784.9992	5784.9991	5784.9984
20	5784.9987	5784.9977	5784.9970	5784.9969
30	5784.9985	5784.9978	5784.9975	5784.9967
40	5784.9969	5784.9963	5784.9953	5784.9946
Max. Deviation (MHz)	0.0031	0.0037	0.0047	0.0054
Max. Deviation (ppm)	0.54	0.64	0.81	0.93
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	5189.9995	5189.9990	5189.9987	5189.9984
110.00	5189.9987	5189.9984	5189.9977	5189.9975
93.50	5189.9981	5189.9973	5189.9966	5189.9961
Max. Deviation (MHz)	0.0019	0.0027	0.0034	0.0039
Max. Deviation (ppm)	0.37	0.52	0.66	0.75
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5189.9997	5189.9995	5189.9993	5189.9984
10	5189.9996	5189.9987	5189.9986	5189.9983
20	5189.9987	5189.9984	5189.9977	5189.9972
30	5189.9985	5189.9983	5189.9977	5189.9971
40	5189.9984	5189.9983	5189.9976	5189.9966
Max. Deviation (MHz)	0.0022	0.0026	0.0032	0.0034
Max. Deviation (ppm)	0.42	0.50	0.62	0.66
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9993	5754.9992	5754.9990	5754.9986
110.00	5754.9987	5754.9985	5754.9984	5754.9977
93.50	5754.9978	5754.9968	5754.9961	5754.9953
Max. Deviation (MHz)	0.0022	0.0032	0.0039	0.0047
Max. Deviation (ppm)	0.38	0.56	0.68	0.82
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5755.0015	5755.0007	5754.9999	5754.9998
10	5754.9996	5754.9995	5754.9990	5754.9987
20	5754.9987	5754.9985	5754.9980	5754.9975
30	5754.9985	5754.9976	5754.9972	5754.9971
40	5754.9966	5754.9957	5754.9952	5754.9949
Max. Deviation (MHz)	0.0041	0.0043	0.0048	0.0053
Max. Deviation (ppm)	0.71	0.75	0.83	0.92
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	5209.9997	5209.9989	5209.9987	5209.9981
110.00	5209.9987	5209.9980	5209.9971	5209.9969
93.50	5209.9981	5209.9971	5209.9966	5209.9959
Max. Deviation (MHz)	0.0019	0.0029	0.0034	0.0041
Max. Deviation (ppm)	0.36	0.56	0.65	0.79
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5210.0008	5210.0002	5209.9998	5209.9997
10	5209.9995	5209.9991	5209.9982	5209.9980
20	5209.9987	5209.9986	5209.9980	5209.9973
30	5209.9985	5209.9977	5209.9970	5209.9963
40	5209.9975	5209.9970	5209.9962	5209.9961
Max. Deviation (MHz)	0.0038	0.0043	0.0049	0.0052
Max. Deviation (ppm)	0.73	0.83	0.94	1.00
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9997	5774.9987	5774.9980	5774.9977
110.00	5774.9987	5774.9983	5774.9981	5774.9973
93.50	5774.9983	5774.9976	5774.9975	5774.9966
Max. Deviation (MHz)	0.0017	0.0024	0.0025	0.0034
Max. Deviation (ppm)	0.29	0.42	0.43	0.59
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5774.9994	5774.9993	5774.9988	5774.9984
10	5774.9988	5774.9983	5774.9980	5774.9971
20	5774.9987	5774.9984	5774.9974	5774.9967
30	5774.9985	5774.9977	5774.9967	5774.9957
40	5774.9972	5774.9967	5774.9962	5774.9953
Max. Deviation (MHz)	0.0039	0.0041	0.0043	0.0047
Max. Deviation (ppm)	0.68	0.71	0.74	0.81
Result	Pass			