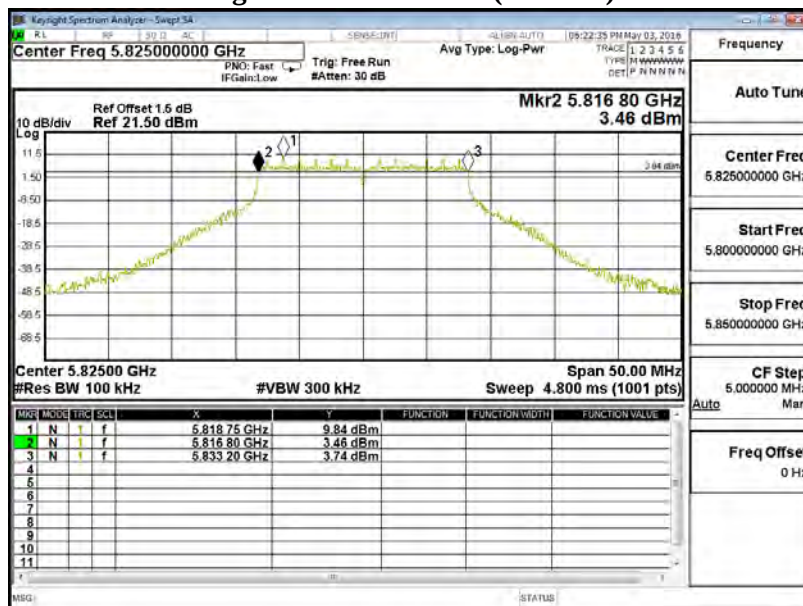


Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 9: Transmit (802.11a-6Mbps)(Panel Antenna) (5825MHz)

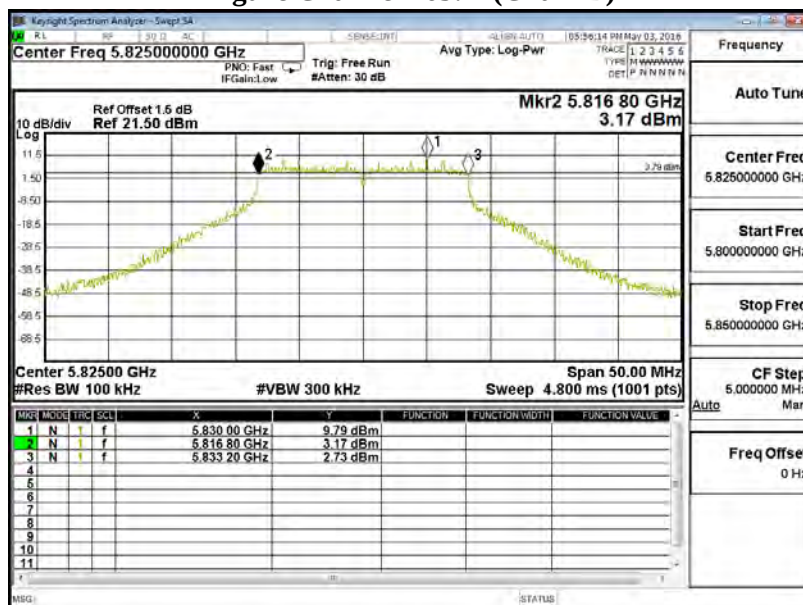
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	16400	>500	Pass

Figure Channel 165: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	16100	>500	Pass

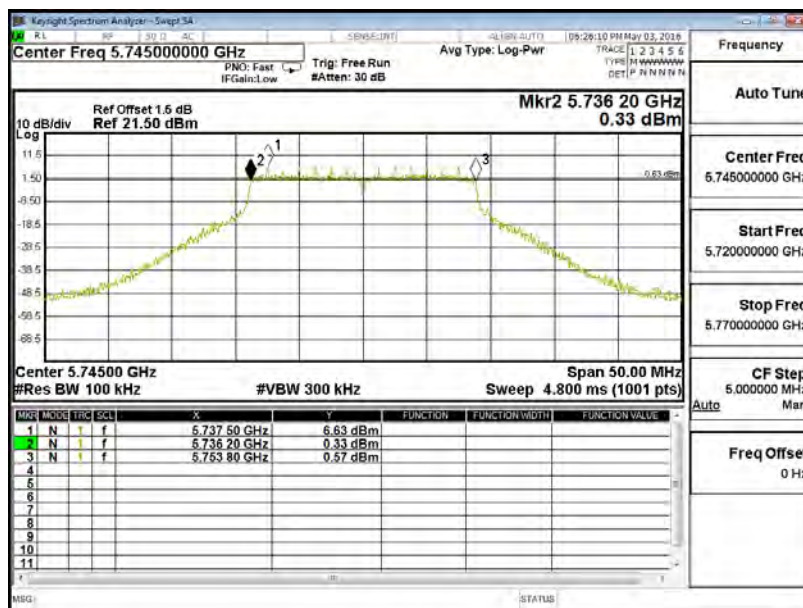
Figure Channel 165: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 10: Transmit (802.11n-20BW-14.4Mbps)(Panel Antenna) (5745MHz)

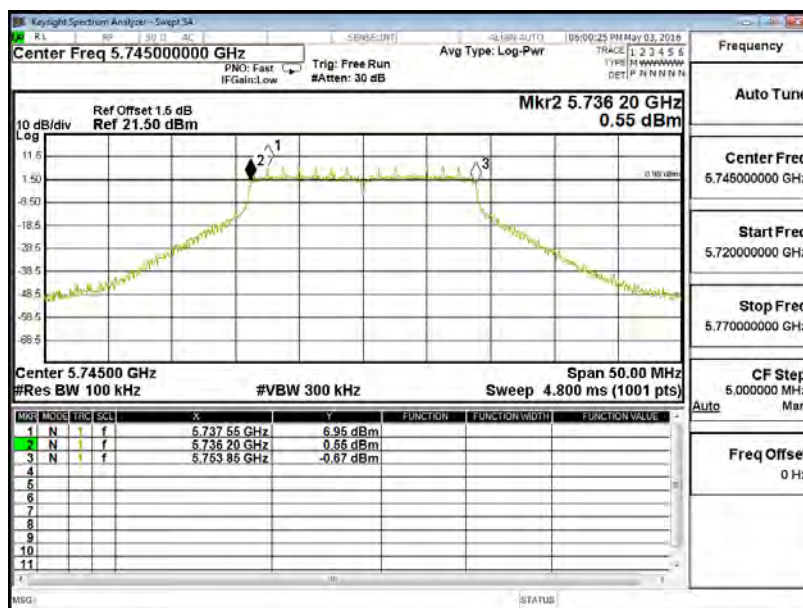
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	17600	>500	Pass

Figure Channel 149: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	17650	>500	Pass

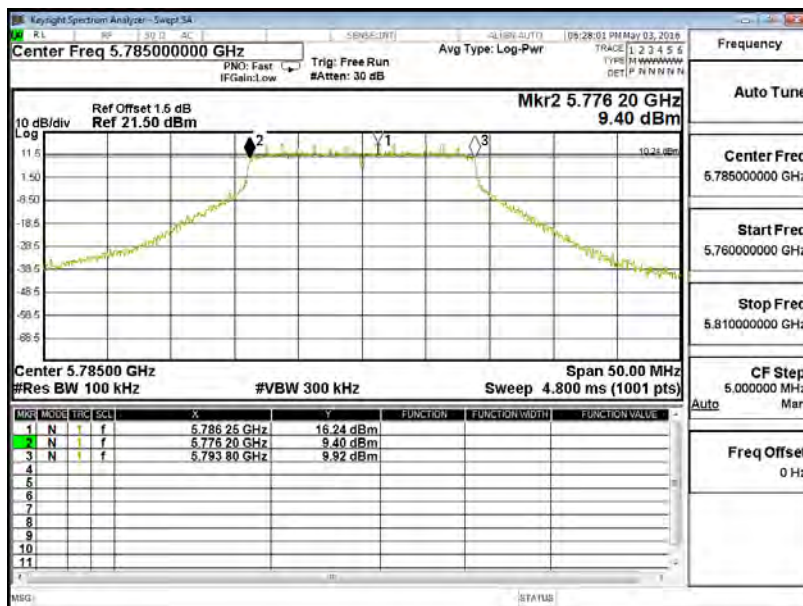
Figure Channel 149: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 10: Transmit (802.11n-20BW-14.4Mbps)(Panel Antenna) (5785MHz)

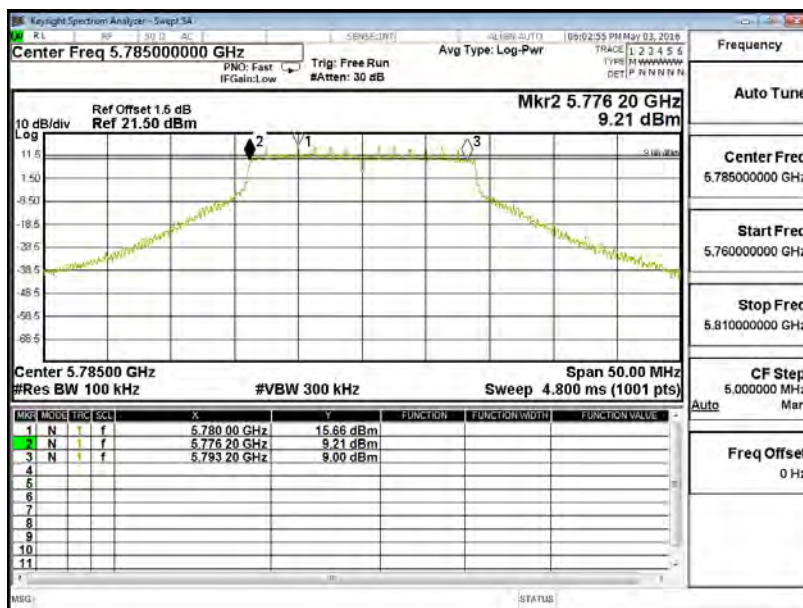
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	17600	>500	Pass

Figure Channel 157: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	17000	>500	Pass

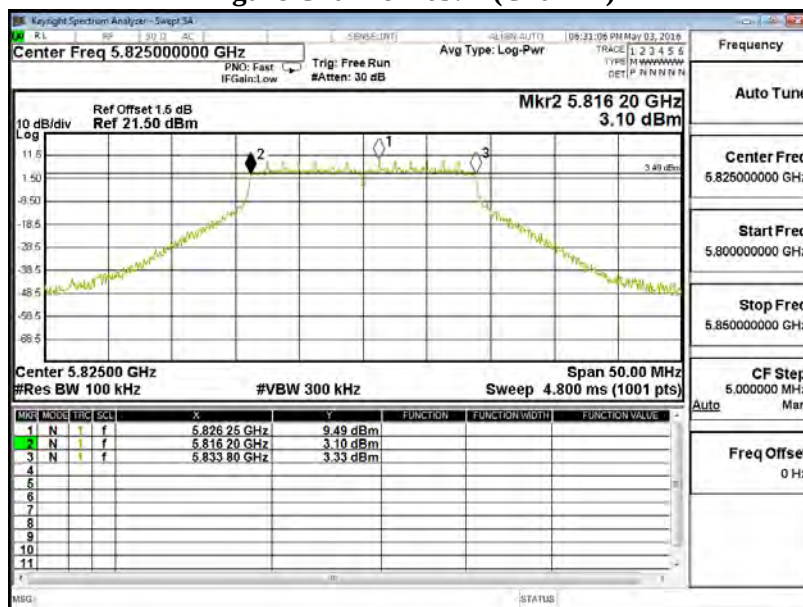
Figure Channel 157: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 10: Transmit (802.11n-20BW-14.4Mbps)(Panel Antenna) (5825MHz)

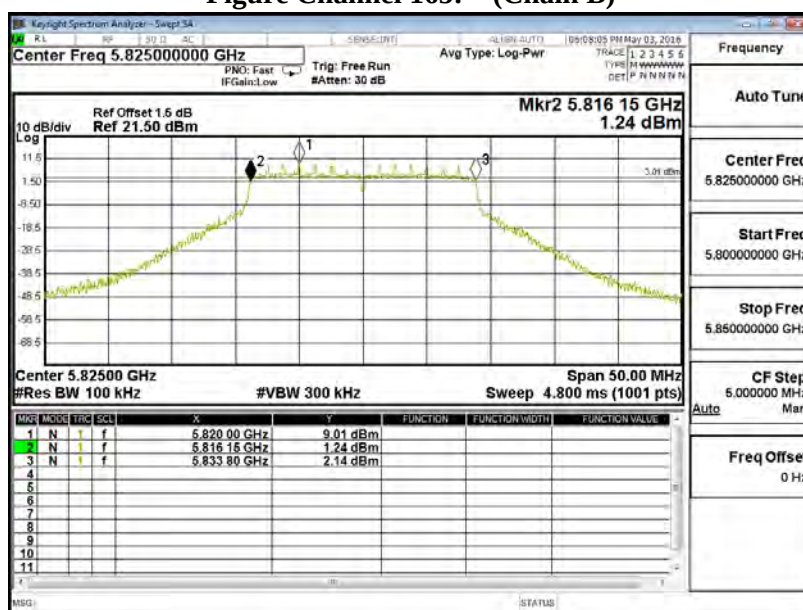
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	17600	>500	Pass

Figure Channel 165: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	17650	>500	Pass

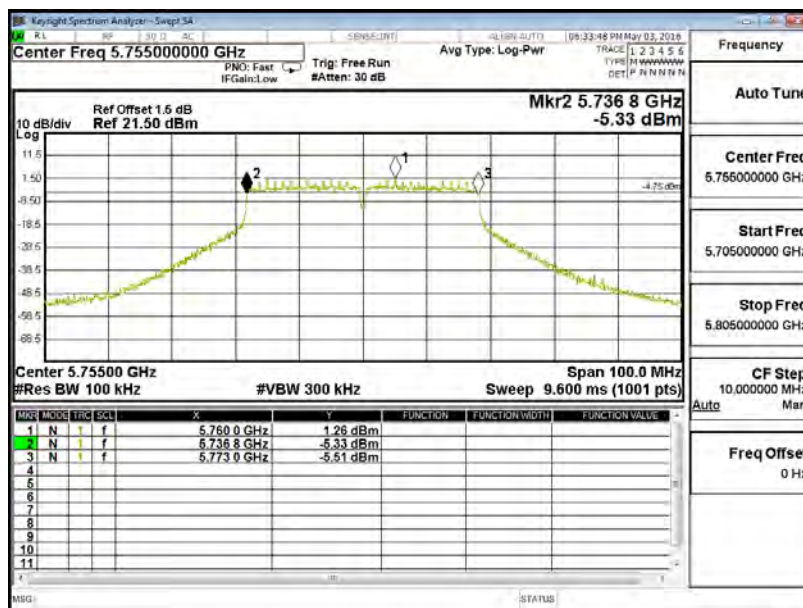
Figure Channel 165: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 11: Transmit (802.11n-40BW-30Mbps)(Panel Antenna)(5755MHz)

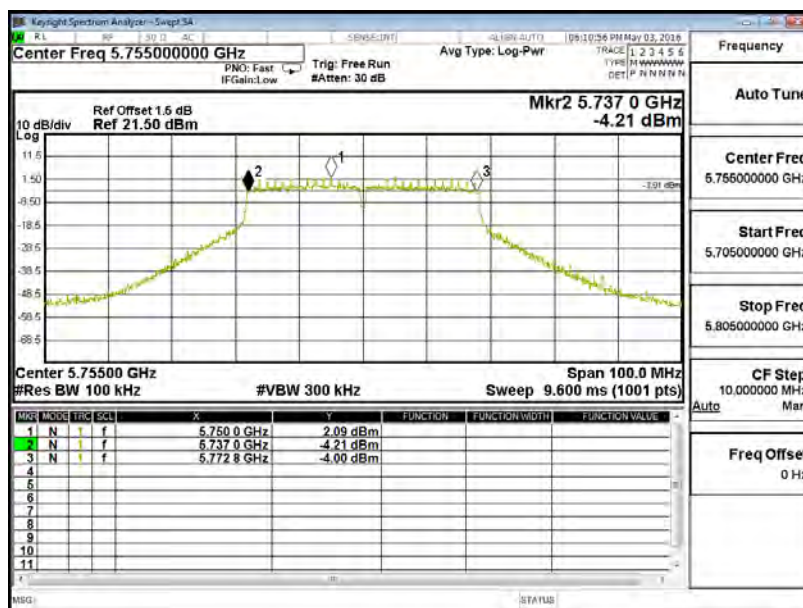
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755.00	36200	>500	Pass

Figure Channel 151: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755.00	35800	>500	Pass

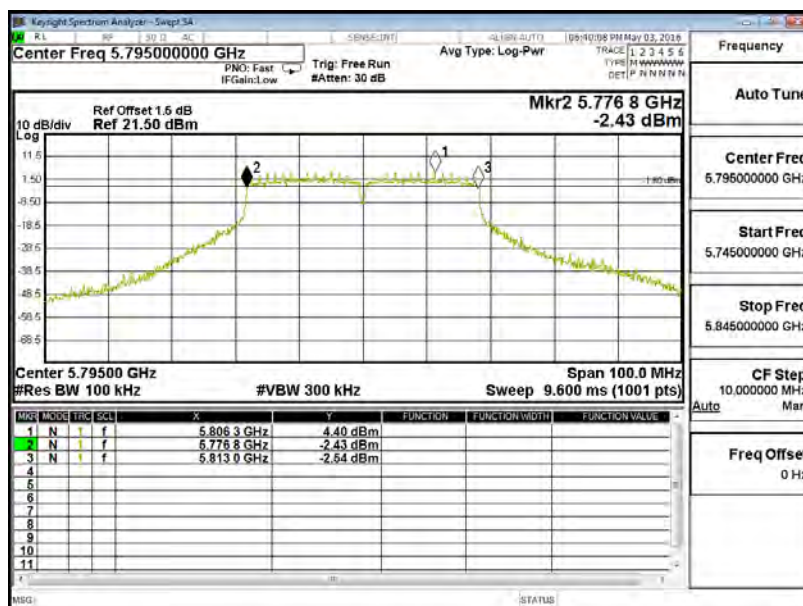
Figure Channel 151: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 11: Transmit (802.11n-40BW-30Mbps)(Panel Antenna) (5795MHz)

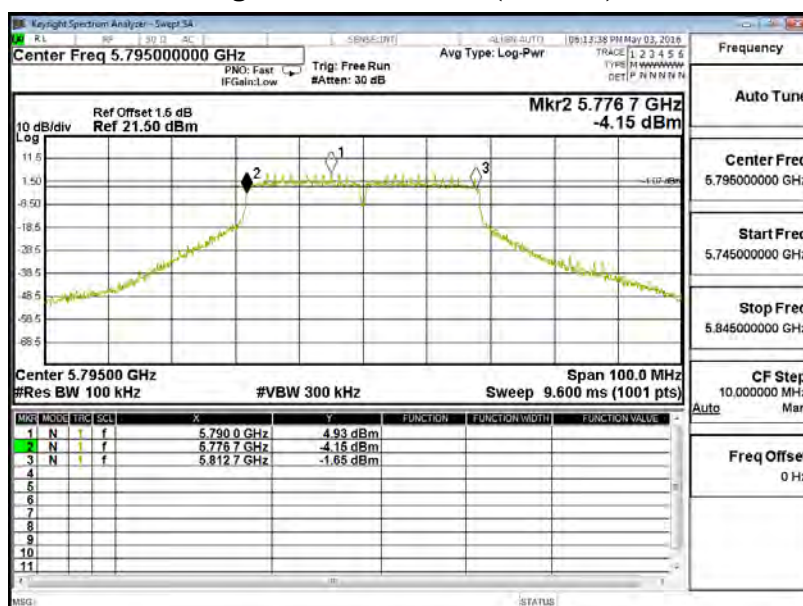
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
159	5795.00	36200	>500	Pass

Figure Channel 159: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
159	5795.00	36000	>500	Pass

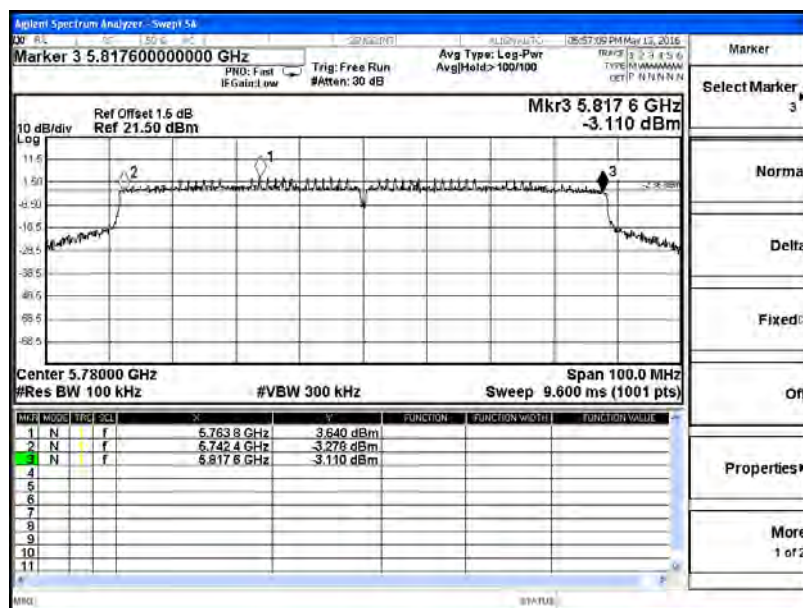
Figure Channel 159: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 12: Transmit (802.11ac-80BW-65Mbps)(Panel Antenna)(5780MHz)

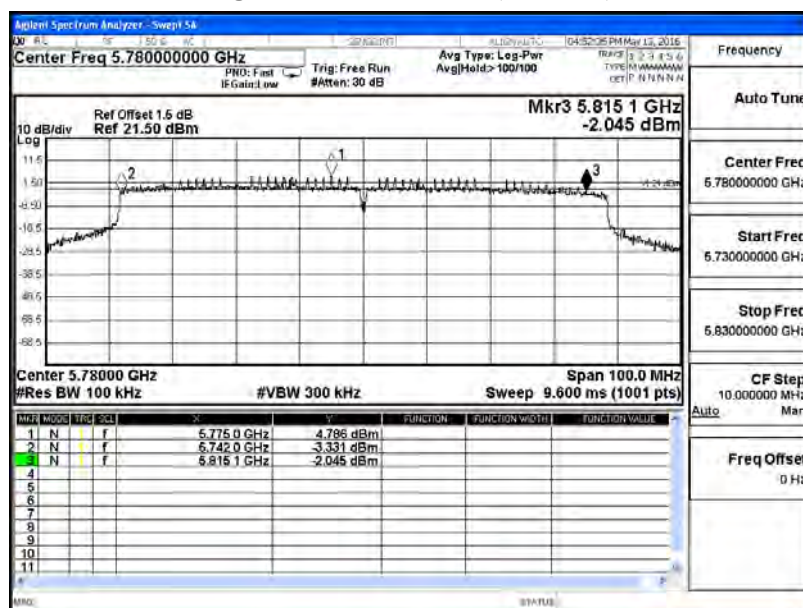
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
156	5780.00	75200	>500	Pass

Figure Channel 156 (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
156	5780.00	73100	>500	Pass

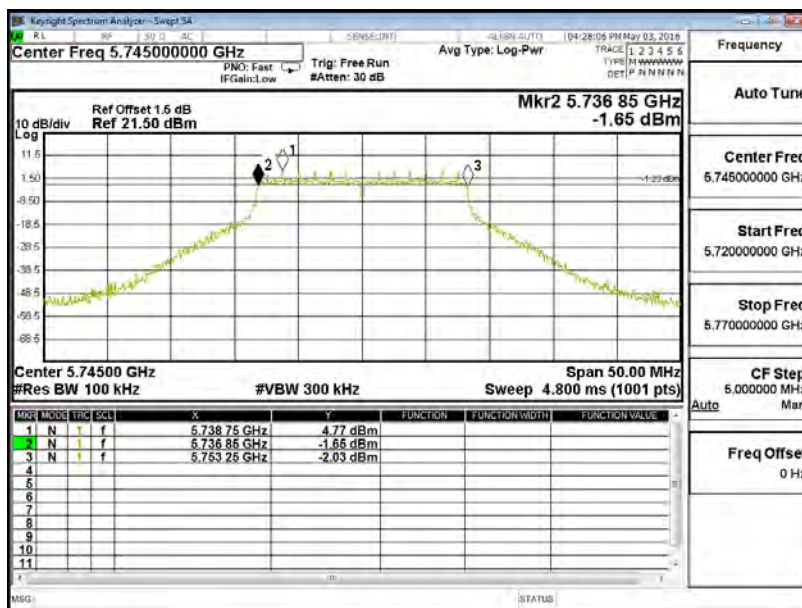
Figure Channel 156: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 13: Transmit (802.11a-6Mbps)(Sector Antenna) (5745MHz)

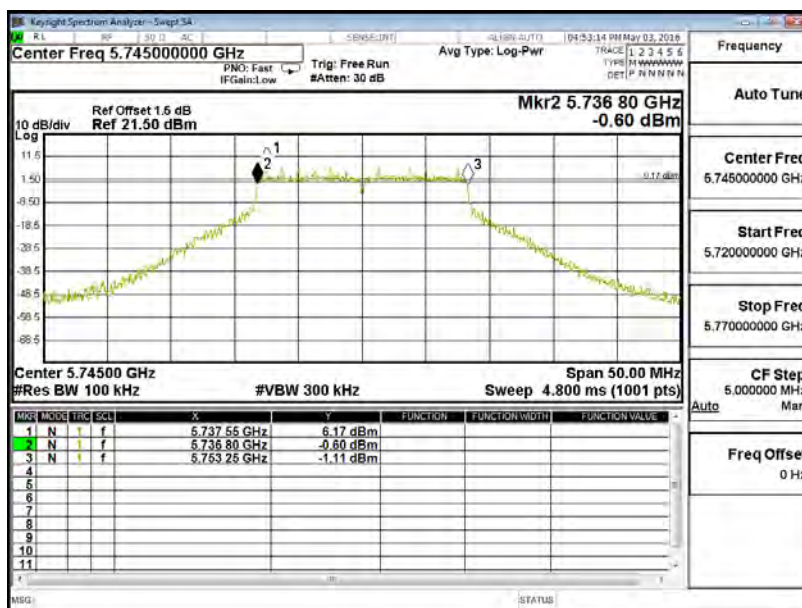
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	16400	>500	Pass

Figure Channel 149: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	16450	>500	Pass

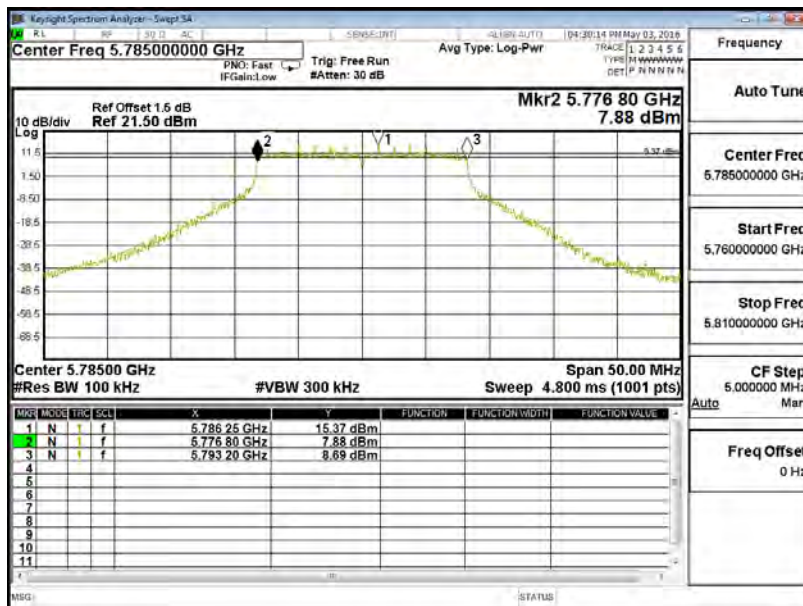
Figure Channel 149: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 13: Transmit (802.11a-6Mbps)(Sector Antenna) (5785MHz)

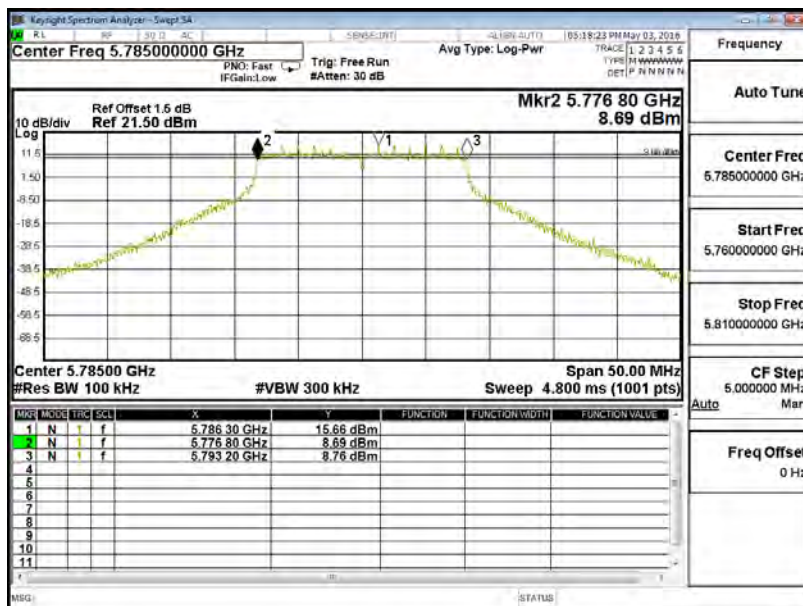
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	16400	>500	Pass

Figure Channel 157: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	16400	>500	Pass

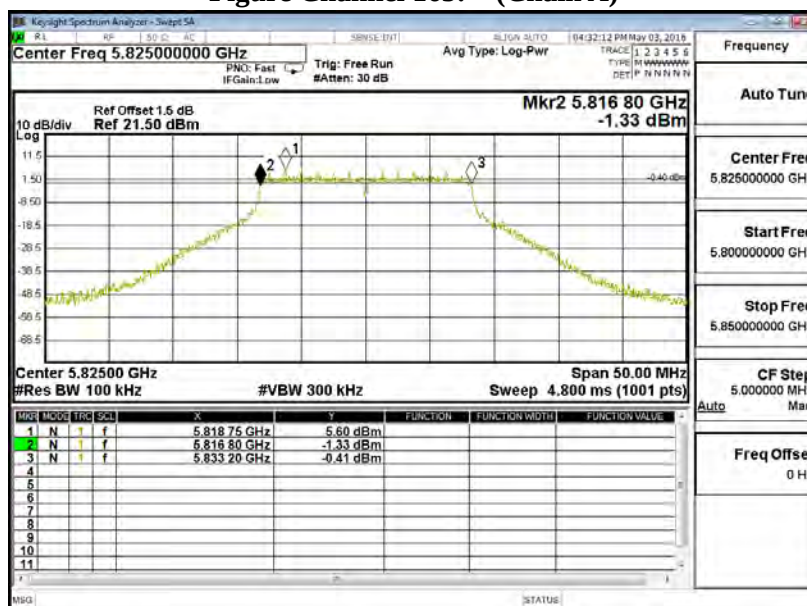
Figure Channel 157: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 13: Transmit (802.11a-6Mbps)(Sector Antenna) (5825MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	16400	>500	Pass

Figure Channel 165: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	16400	>500	Pass

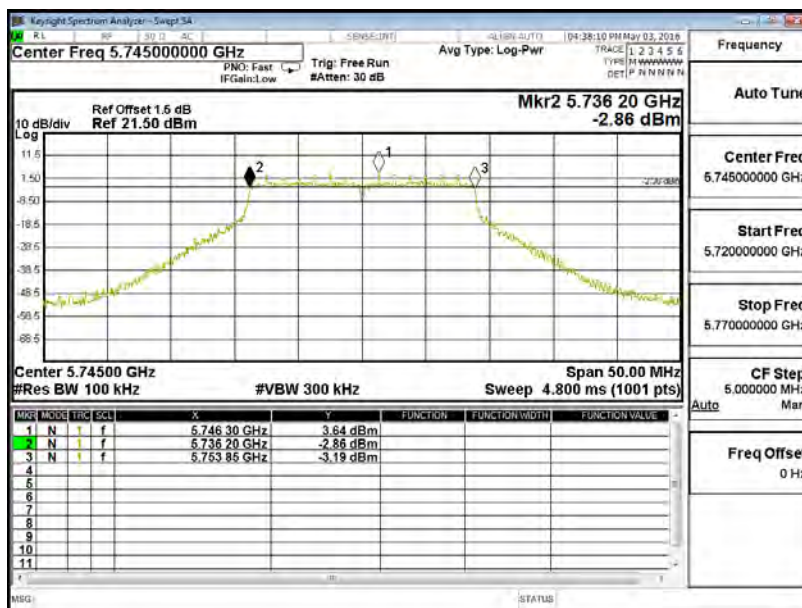
Figure Channel 165: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 14: Transmit (802.11n-20BW-14.4Mbps)(Sector Antenna)(5745MHz)

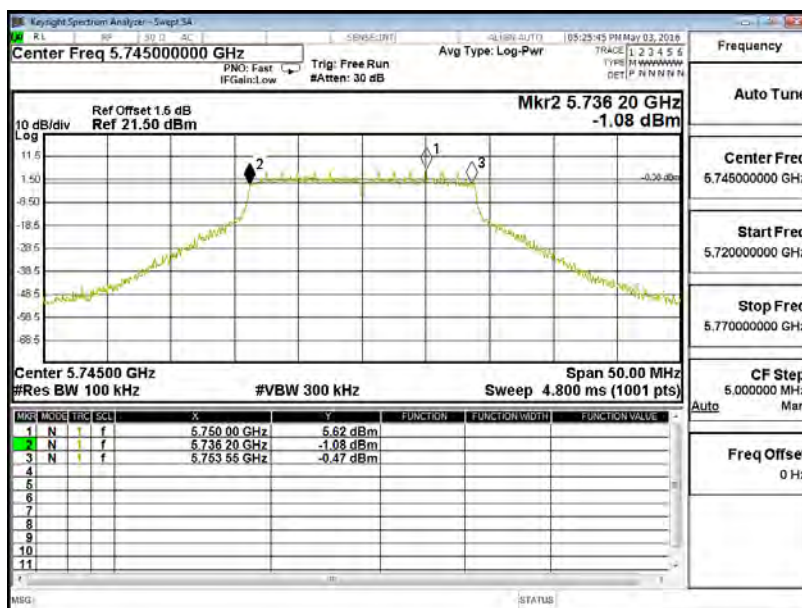
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	17650	>500	Pass

Figure Channel 149: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	17350	>500	Pass

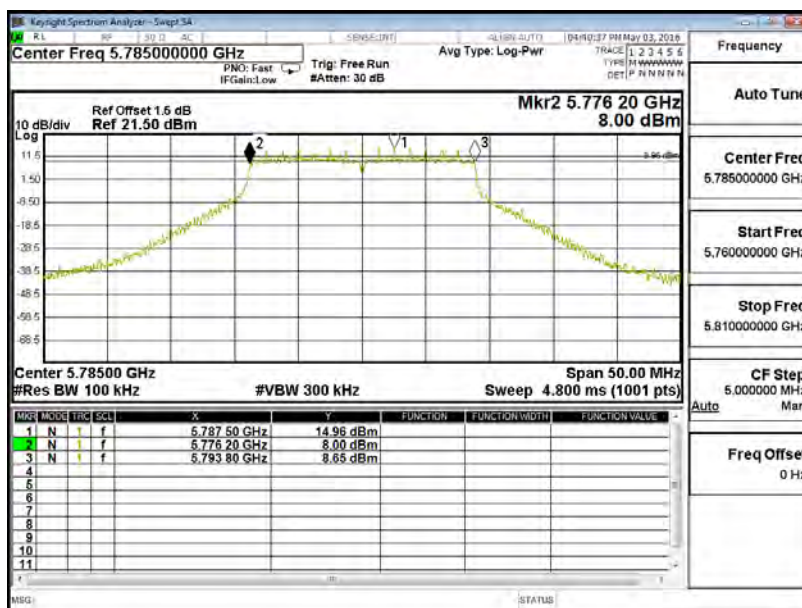
Figure Channel 149: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 14: Transmit (802.11n-20BW-14.4Mbps)(Sector Antenna) (5785MHz)

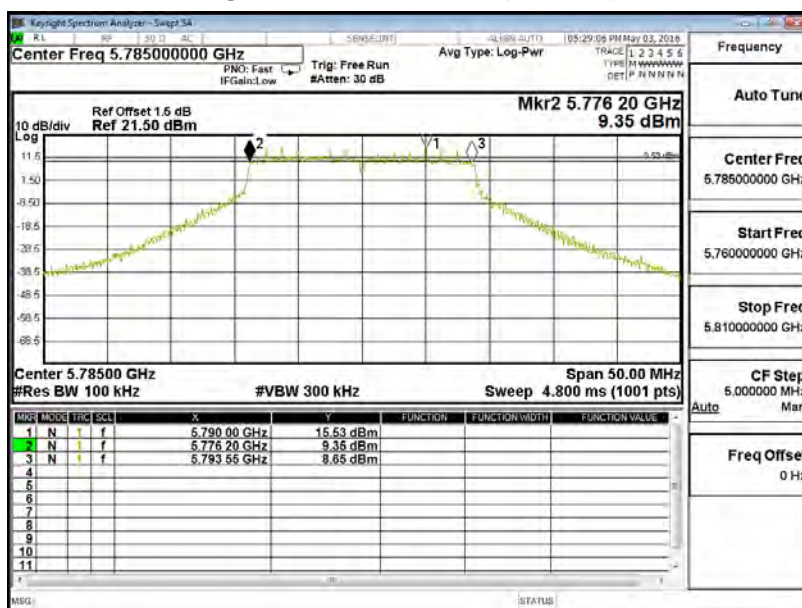
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	17600	>500	Pass

Figure Channel 157: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	17350	>500	Pass

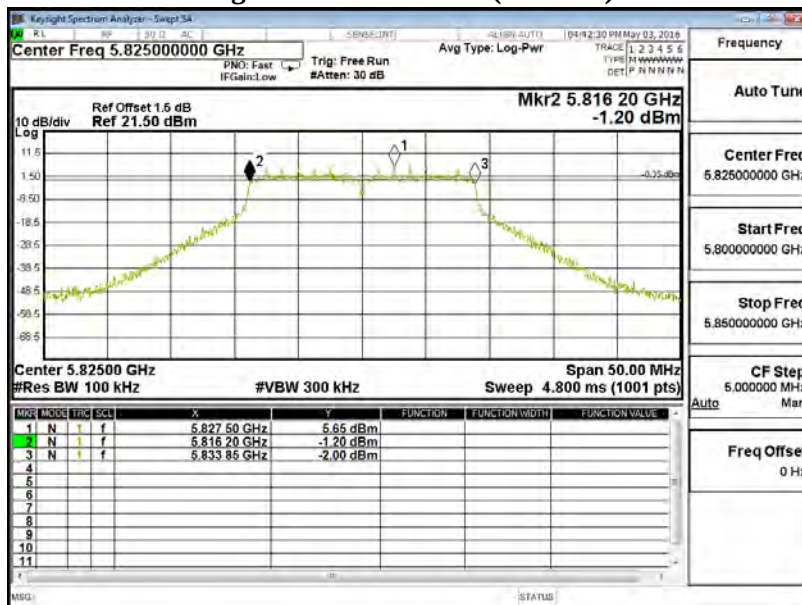
Figure Channel 157: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 14: Transmit (802.11n-20BW-14.4Mbps)(Sector Antenna) (5825MHz)

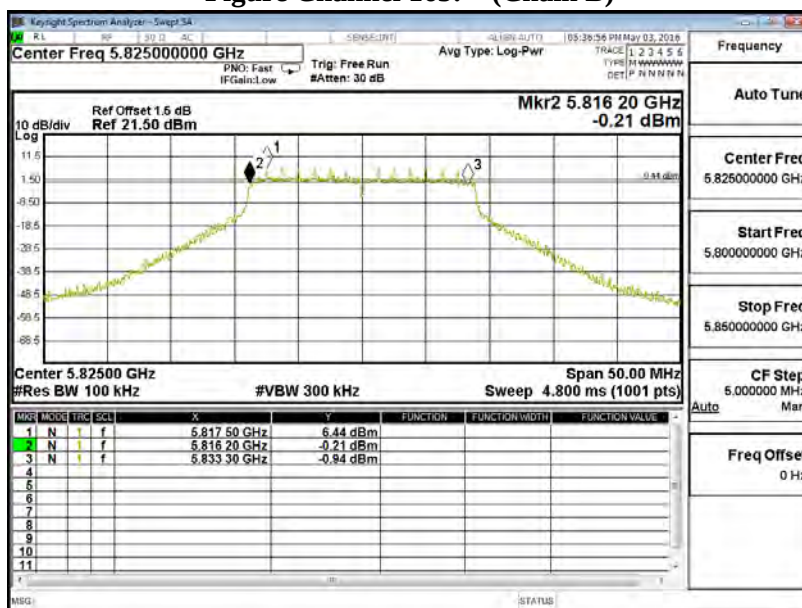
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	17650	>500	Pass

Figure Channel 165: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	17100	>500	Pass

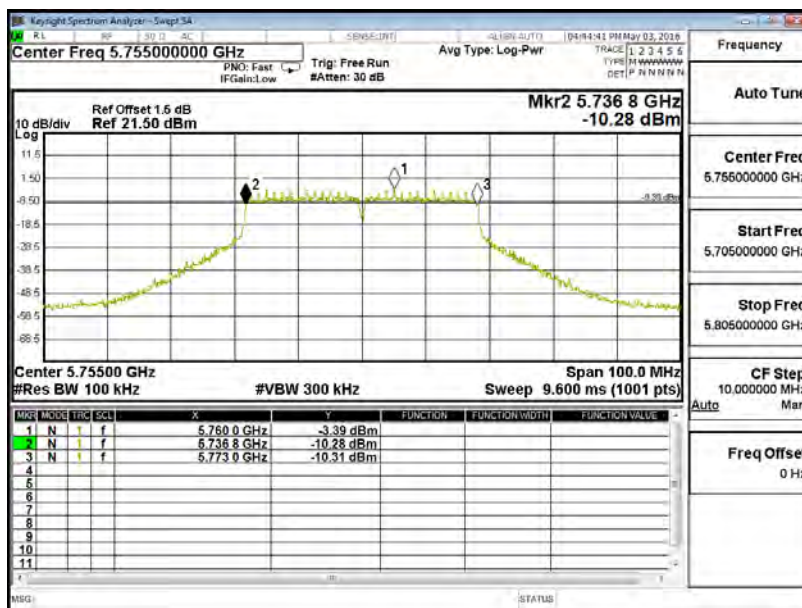
Figure Channel 165: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 15: Transmit (802.11n-40BW-30Mbps)(Sector Antenna) (5755MHz)

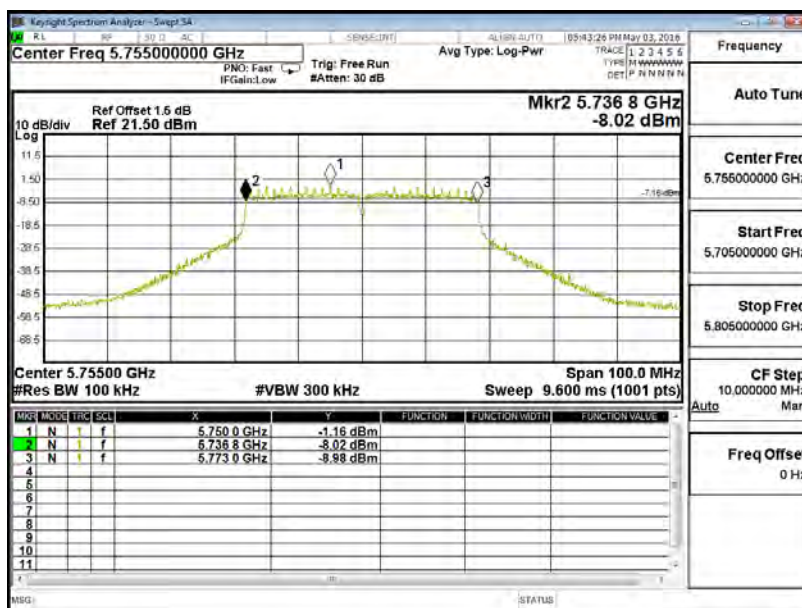
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755.00	36200	>500	Pass

Figure Channel 151: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755.00	36200	>500	Pass

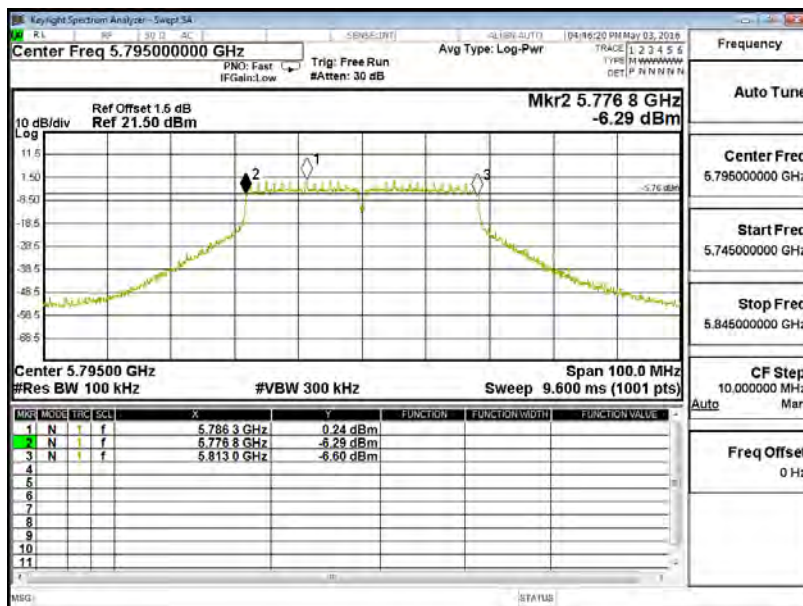
Figure Channel 151: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 15: Transmit (802.11n-40BW-30Mbps)(Sector Antenna) (5795MHz)

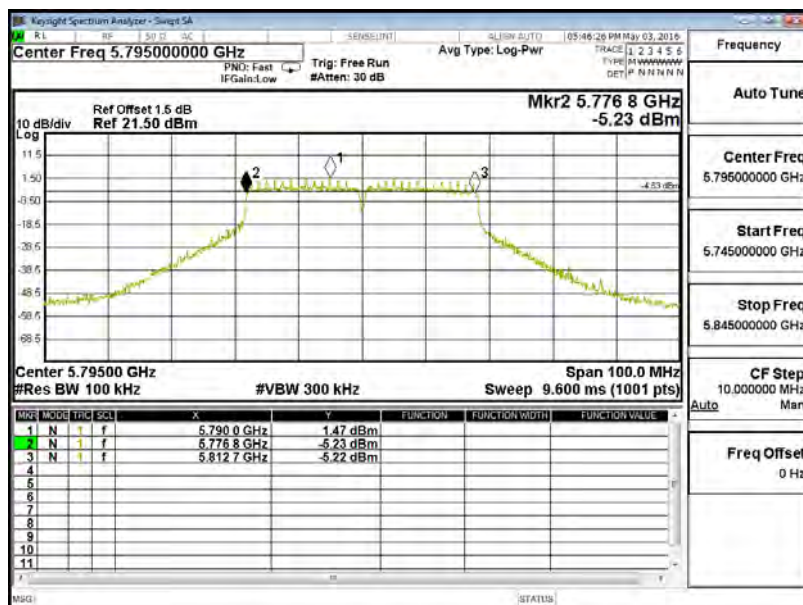
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
159	5795.00	36200	>500	Pass

Figure Channel 159: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
159	5795.00	35900	>500	Pass

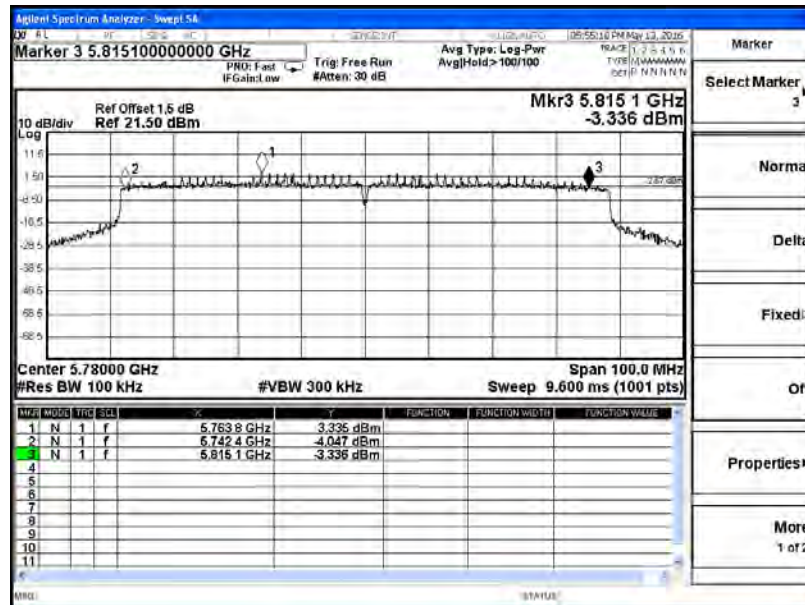
Figure Channel 159: (Chain B)



Product : 802.11 ac PCIe Module
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 16: Transmit (802.11ac-80BW-65Mbps)(Sector Antenna) (5780MHz)

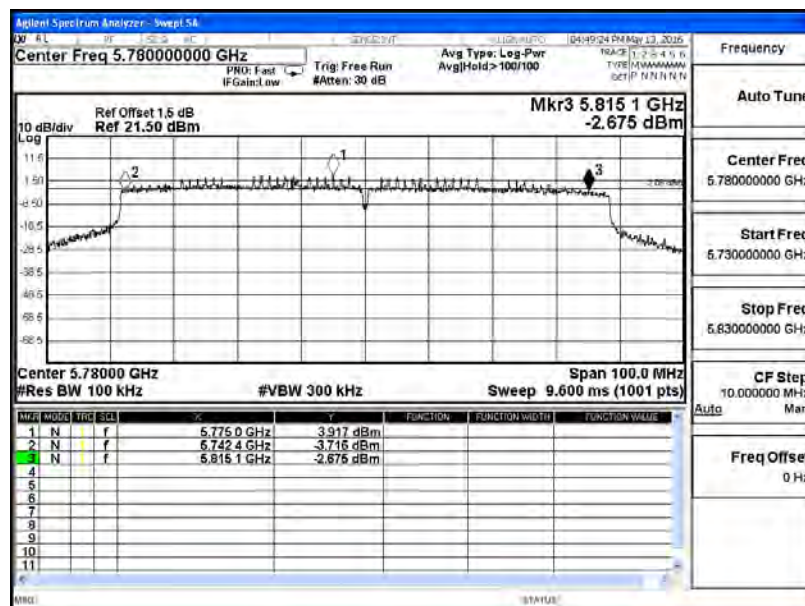
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
156	5780.00	72700	>500	Pass

Figure Channel 156 (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
156	5780.00	72700	>500	Pass

Figure Channel 156: (Chain B)



8. Frequency Stability

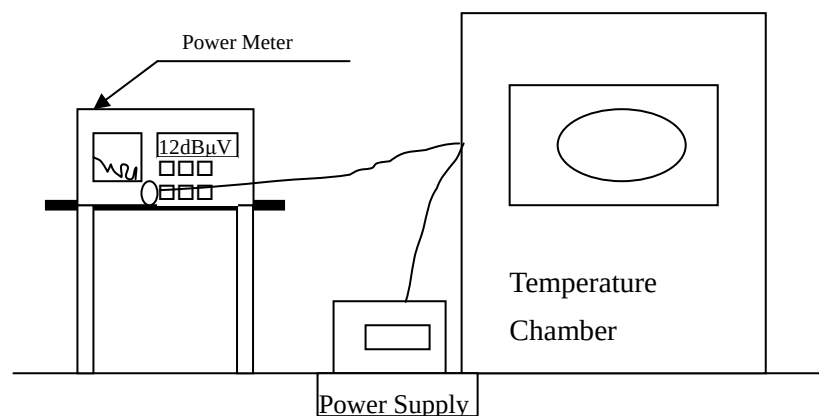
8.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2016

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

8.2. Test Setup



8.3. Limits

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified

8.4. Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

8.5. Uncertainty

± 150 Hz

8.6. Test Result of Frequency Stability

Product : 802.11 ac PCIe Module
Test Item : Frequency Stability
Test Site : Temperature Chamber
Test Mode : Carrier Wave (Grid DISH Antenna)

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	149	5745.0000	5745.0097	-0.0097
		151	5755.0000	5755.0075	-0.0075
		157	5785.0000	5785.0011	-0.0011
		159	5795.0000	5795.0025	-0.0025
		165	5825.0000	5825.0047	-0.0047
Tmax (50) °C	Vmax (138)V	149	5745.0000	5745.0049	-0.0049
		151	5755.0000	5755.0051	-0.0051
		157	5785.0000	5785.0070	-0.0070
		159	5795.0000	5795.0023	-0.0023
		165	5825.0000	5825.0078	-0.0078
Tmax (50) °C	Vmin (102)V	149	5745.0000	5745.0049	-0.0049
		151	5755.0000	5755.0081	-0.0081
		157	5785.0000	5785.0035	-0.0035
		159	5795.0000	5795.0071	-0.0071
		165	5825.0000	5825.0085	-0.0085
Tmin (-20) °C	Vmax (138)V	149	5745.0000	5745.0019	-0.0019
		151	5755.0000	5755.0068	-0.0068
		157	5785.0000	5785.0058	-0.0058
		159	5795.0000	5795.0057	-0.0057
		165	5825.0000	5825.0029	-0.0029
Tmin (-20) °C	Vmin (102)V	149	5745.0000	5745.0019	-0.0019
		151	5755.0000	5755.0068	-0.0068
		157	5785.0000	5785.0058	-0.0058
		159	5795.0000	5795.0057	-0.0057
		165	5825.0000	5825.0029	-0.0029

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	149	5745.0000	5745.0072	-0.0072
		151	5755.0000	5755.0063	-0.0063
		157	5785.0000	5785.0024	-0.0024
		159	5795.0000	5795.0011	-0.0011
		165	5825.0000	5825.0059	-0.0059
Tmax (50) °C	Vmax (138)V	149	5745.0000	5745.0057	-0.0057
		151	5755.0000	5755.0041	-0.0041
		157	5785.0000	5785.0036	-0.0036
		159	5795.0000	5795.0060	-0.0060
		165	5825.0000	5825.0045	-0.0045
Tmax (50) °C	Vmin (102)V	149	5745.0000	5745.0018	-0.0018
		151	5755.0000	5755.0068	-0.0068
		157	5785.0000	5785.0032	-0.0032
		159	5795.0000	5795.0085	-0.0085
		165	5825.0000	5825.0011	-0.0011
Tmin (-20) °C	Vmax (138)V	149	5745.0000	5745.0028	-0.0028
		151	5755.0000	5755.0071	-0.0071
		157	5785.0000	5785.0028	-0.0028
		159	5795.0000	5795.0049	-0.0049
		165	5825.0000	5825.0071	-0.0071
Tmin (-20) °C	Vmin (102)V	149	5745.0000	5745.0074	-0.0074
		151	5755.0000	5755.0039	-0.0039
		157	5785.0000	5785.0047	-0.0047
		159	5795.0000	5795.0054	-0.0054
		165	5825.0000	5825.0064	-0.0064

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	156ac80	5780.0000	5780.0021	-0.0021
Tmax (50) °C	Vmax (138)V	156ac80	5780.0000	5780.0027	-0.0027
Tmax (50) °C	Vmin (102)V	156ac80	5780.0000	5780.0042	-0.0042
Tmin (-20) °C	Vmax (138)V	156ac80	5780.0000	5780.0032	-0.0032
Tmin (-20) °C	Vmin (102)V	156ac80	5780.0000	5780.0051	-0.0051

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	156ac80	5780.0000	5780.0022	-0.0022
Tmax (50) °C	Vmax (138)V	156ac80	5780.0000	5780.0061	-0.0061
Tmax (50) °C	Vmin (102)V	156ac80	5780.0000	5780.0041	-0.0041
Tmin (-20) °C	Vmax (138)V	156ac80	5780.0000	5780.0071	-0.0071
Tmin (-20) °C	Vmin (102)V	156ac80	5780.0000	5780.0083	-0.0083

Product : 802.11 ac PCIE Module
Test Item : Frequency Stability
Test Site : Temperature Chamber
Test Mode : Carrier Wave (Omni Antenna)

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	149	5745.0000	5745.0085	-0.0085
		151	5755.0000	5755.0071	-0.0071
		157	5785.0000	5785.0050	-0.0050
		159	5795.0000	5795.0027	-0.0027
		165	5825.0000	5825.0049	-0.0049
Tmax (50) °C	Vmax (138)V	149	5745.0000	5745.0074	-0.0074
		151	5755.0000	5755.0022	-0.0022
		157	5785.0000	5785.0049	-0.0049
		159	5795.0000	5795.0035	-0.0035
		165	5825.0000	5825.0057	-0.0057
Tmax (50) °C	Vmin (102)V	149	5745.0000	5745.0048	-0.0048
		151	5755.0000	5755.0058	-0.0058
		157	5785.0000	5785.0029	-0.0029
		159	5795.0000	5795.0048	-0.0048
		165	5825.0000	5825.0036	-0.0036
Tmin (-20) °C	Vmax (138)V	149	5745.0000	5745.0021	-0.0021
		151	5755.0000	5755.0062	-0.0062
		157	5785.0000	5785.0089	-0.0089
		159	5795.0000	5795.0097	-0.0097
		165	5825.0000	5825.0021	-0.0021
Tmin (-20) °C	Vmin (102)V	149	5745.0000	5745.0021	-0.0021
		151	5755.0000	5755.0062	-0.0062
		157	5785.0000	5785.0089	-0.0089
		159	5795.0000	5795.0097	-0.0097
		165	5825.0000	5825.0021	-0.0021

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	149	5745.0000	5745.0068	-0.0068
		151	5755.0000	5755.0051	-0.0051
		157	5785.0000	5785.0035	-0.0035
		159	5795.0000	5795.0027	-0.0027
		165	5825.0000	5825.0061	-0.0061
Tmax (50) °C	Vmax (138)V	149	5745.0000	5745.0047	-0.0047
		151	5755.0000	5755.0043	-0.0043
		157	5785.0000	5785.0025	-0.0025
		159	5795.0000	5795.0062	-0.0062
		165	5825.0000	5825.0049	-0.0049
Tmax (50) °C	Vmin (102)V	149	5745.0000	5745.0045	-0.0045
		151	5755.0000	5755.0082	-0.0082
		157	5785.0000	5785.0036	-0.0036
		159	5795.0000	5795.0074	-0.0074
		165	5825.0000	5825.0065	-0.0065
Tmin (-20) °C	Vmax (138)V	149	5745.0000	5745.0085	-0.0085
		151	5755.0000	5755.0051	-0.0051
		157	5785.0000	5785.0032	-0.0032
		159	5795.0000	5795.0074	-0.0074
		165	5825.0000	5825.0009	-0.0009
Tmin (-20) °C	Vmin (102)V	149	5745.0000	5745.0085	-0.0085
		151	5755.0000	5755.0047	-0.0047
		157	5785.0000	5785.0096	-0.0096
		159	5795.0000	5795.0025	-0.0025
		165	5825.0000	5825.0066	-0.0066

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	156ac80	5780.0000	5780.0033	-0.0033
Tmax (50) °C	Vmax (138)V	156ac80	5780.0000	5780.0082	-0.0082
Tmax (50) °C	Vmin (102)V	156ac80	5780.0000	5780.0091	-0.0091
Tmin (-20) °C	Vmax (138)V	156ac80	5780.0000	5780.0046	-0.0046
Tmin (-20) °C	Vmin (102)V	156ac80	5780.0000	5780.0063	-0.0063

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	156ac80	5780.0000	5780.0071	-0.0071
Tmax (50) °C	Vmax (138)V	156ac80	5780.0000	5780.0086	-0.0086
Tmax (50) °C	Vmin (102)V	156ac80	5780.0000	5780.0089	-0.0089
Tmin (-20) °C	Vmax (138)V	156ac80	5780.0000	5780.0054	-0.0054
Tmin (-20) °C	Vmin (102)V	156ac80	5780.0000	5780.0036	-0.0036

Product : 802.11 ac PCIE Module
Test Item : Frequency Stability
Test Site : Temperature Chamber
Test Mode : Carrier Wave (Panel Antenna)

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	149	5745.0000	5745.0077	-0.0077
		151	5755.0000	5755.0007	-0.0007
		157	5785.0000	5785.0049	-0.0049
		159	5795.0000	5795.0063	-0.0063
		165	5825.0000	5825.0045	-0.0045
Tmax (50) °C	Vmax (138)V	149	5745.0000	5745.0025	-0.0025
		151	5755.0000	5755.0074	-0.0074
		157	5785.0000	5785.0096	-0.0096
		159	5795.0000	5795.0068	-0.0068
		165	5825.0000	5825.0074	-0.0074
Tmax (50) °C	Vmin (102)V	149	5745.0000	5745.0078	-0.0078
		151	5755.0000	5755.0079	-0.0079
		157	5785.0000	5785.0056	-0.0056
		159	5795.0000	5795.0013	-0.0013
		165	5825.0000	5825.0049	-0.0049
Tmin (-20) °C	Vmax (138)V	149	5745.0000	5745.0057	-0.0057
		151	5755.0000	5755.0048	-0.0048
		157	5785.0000	5785.0059	-0.0059
		159	5795.0000	5795.0079	-0.0079
		165	5825.0000	5825.0039	-0.0039
Tmin (-20) °C	Vmin (102)V	149	5745.0000	5745.0057	-0.0057
		151	5755.0000	5755.0048	-0.0048
		157	5785.0000	5785.0059	-0.0059
		159	5795.0000	5795.0079	-0.0079
		165	5825.0000	5825.0039	-0.0039

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	149	5745.0000	5745.0082	-0.0082
		151	5755.0000	5755.0014	-0.0014
		157	5785.0000	5785.0036	-0.0036
		159	5795.0000	5795.0085	-0.0085
		165	5825.0000	5825.0096	-0.0096
Tmax (50) °C	Vmax (138)V	149	5745.0000	5745.0065	-0.0065
		151	5755.0000	5755.0048	-0.0048
		157	5785.0000	5785.0032	-0.0032
		159	5795.0000	5795.0087	-0.0087
		165	5825.0000	5825.0021	-0.0021
Tmax (50) °C	Vmin (102)V	149	5745.0000	5745.0073	-0.0073
		151	5755.0000	5755.0028	-0.0028
		157	5785.0000	5785.0037	-0.0037
		159	5795.0000	5795.0059	-0.0059
		165	5825.0000	5825.0016	-0.0016
Tmin (-20) °C	Vmax (138)V	149	5745.0000	5745.0057	-0.0057
		151	5755.0000	5755.0053	-0.0053
		157	5785.0000	5785.0019	-0.0019
		159	5795.0000	5795.0043	-0.0043
		165	5825.0000	5825.0059	-0.0059
Tmin (-20) °C	Vmin (102)V	149	5745.0000	5745.0079	-0.0079
		151	5755.0000	5755.0049	-0.0049
		157	5785.0000	5785.0051	-0.0051
		159	5795.0000	5795.0056	-0.0056
		165	5825.0000	5825.0089	-0.0089

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	156ac80	5780.0000	5780.0046	-0.0046
Tmax (50) °C	Vmax (138)V	156ac80	5780.0000	5780.0062	-0.0062
Tmax (50) °C	Vmin (102)V	156ac80	5780.0000	5780.0022	-0.0022
Tmin (-20) °C	Vmax (138)V	156ac80	5780.0000	5780.0007	-0.0007
Tmin (-20) °C	Vmin (102)V	156ac80	5780.0000	5780.0036	-0.0036

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	156ac80	5780.0000	5780.0029	-0.0029
Tmax (50) °C	Vmax (138)V	156ac80	5780.0000	5780.0067	-0.0067
Tmax (50) °C	Vmin (102)V	156ac80	5780.0000	5780.0045	-0.0045
Tmin (-20) °C	Vmax (138)V	156ac80	5780.0000	5780.0079	-0.0079
Tmin (-20) °C	Vmin (102)V	156ac80	5780.0000	5780.0049	-0.0049

Product : 802.11 ac PCIE Module
Test Item : Frequency Stability
Test Site : Temperature Chamber
Test Mode : Carrier Wave (Sector Antenna)

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	149	5745.0000	5745.0079	-0.0079
		151	5755.0000	5755.0006	-0.0006
		157	5785.0000	5785.0016	-0.0016
		159	5795.0000	5795.0091	-0.0091
		165	5825.0000	5825.0075	-0.0075
Tmax (50) °C	Vmax (138)V	149	5745.0000	5745.0076	-0.0076
		151	5755.0000	5755.0026	-0.0026
		157	5785.0000	5785.0046	-0.0046
		159	5795.0000	5795.0036	-0.0036
		165	5825.0000	5825.0074	-0.0074
Tmax (50) °C	Vmin (102)V	149	5745.0000	5745.0086	-0.0086
		151	5755.0000	5755.0043	-0.0043
		157	5785.0000	5785.0081	-0.0081
		159	5795.0000	5795.0063	-0.0063
		165	5825.0000	5825.0028	-0.0028
Tmin (-20) °C	Vmax (138)V	149	5745.0000	5745.0079	-0.0079
		151	5755.0000	5755.0062	-0.0062
		157	5785.0000	5785.0014	-0.0014
		159	5795.0000	5795.0079	-0.0079
		165	5825.0000	5825.0062	-0.0062
Tmin (-20) °C	Vmin (102)V	149	5745.0000	5745.0079	-0.0079
		151	5755.0000	5755.0062	-0.0062
		157	5785.0000	5785.0014	-0.0014
		159	5795.0000	5795.0079	-0.0079
		165	5825.0000	5825.0062	-0.0062

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	149	5745.0000	5745.0075	-0.0075
		151	5755.0000	5755.0098	-0.0098
		157	5785.0000	5785.0015	-0.0015
		159	5795.0000	5795.0046	-0.0046
		165	5825.0000	5825.0085	-0.0085
Tmax (50) °C	Vmax (138)V	149	5745.0000	5745.0096	-0.0096
		151	5755.0000	5755.0089	-0.0089
		157	5785.0000	5785.0004	-0.0004
		159	5795.0000	5795.0051	-0.0051
		165	5825.0000	5825.0075	-0.0075
Tmax (50) °C	Vmin (102)V	149	5745.0000	5745.0079	-0.0079
		151	5755.0000	5755.0071	-0.0071
		157	5785.0000	5785.0093	-0.0093
		159	5795.0000	5795.0084	-0.0084
		165	5825.0000	5825.0039	-0.0039
Tmin (-20) °C	Vmax (138)V	149	5745.0000	5745.0054	-0.0054
		151	5755.0000	5755.0033	-0.0033
		157	5785.0000	5785.0008	-0.0008
		159	5795.0000	5795.0092	-0.0092
		165	5825.0000	5825.0050	-0.0050
Tmin (-20) °C	Vmin (102)V	149	5745.0000	5745.0074	-0.0074
		151	5755.0000	5755.0062	-0.0062
		157	5785.0000	5785.0026	-0.0026
		159	5795.0000	5795.0074	-0.0074
		165	5825.0000	5825.0015	-0.0015

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	156ac80	5780.0000	5780.0082	-0.0082
Tmax (50) °C	Vmax (138)V	156ac80	5780.0000	5780.0091	-0.0091
Tmax (50) °C	Vmin (102)V	156ac80	5780.0000	5780.0041	-0.0041
Tmin (-20) °C	Vmax (138)V	156ac80	5780.0000	5780.0063	-0.0063
Tmin (-20) °C	Vmin (102)V	156ac80	5780.0000	5780.0050	-0.0050

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	ΔF (MHz)
Tnom (20) °C	Vnom (120)V	156ac80	5780.0000	5780.0098	-0.0098
Tmax (50) °C	Vmax (138)V	156ac80	5780.0000	5780.0004	-0.0004
Tmax (50) °C	Vmin (102)V	156ac80	5780.0000	5780.0061	-0.0061
Tmin (-20) °C	Vmax (138)V	156ac80	5780.0000	5780.0049	-0.0049
Tmin (-20) °C	Vmin (102)V	156ac80	5780.0000	5780.0063	-0.0063

9. EMI Reduction Method During Compliance Testing

No modification was made during testing.

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs