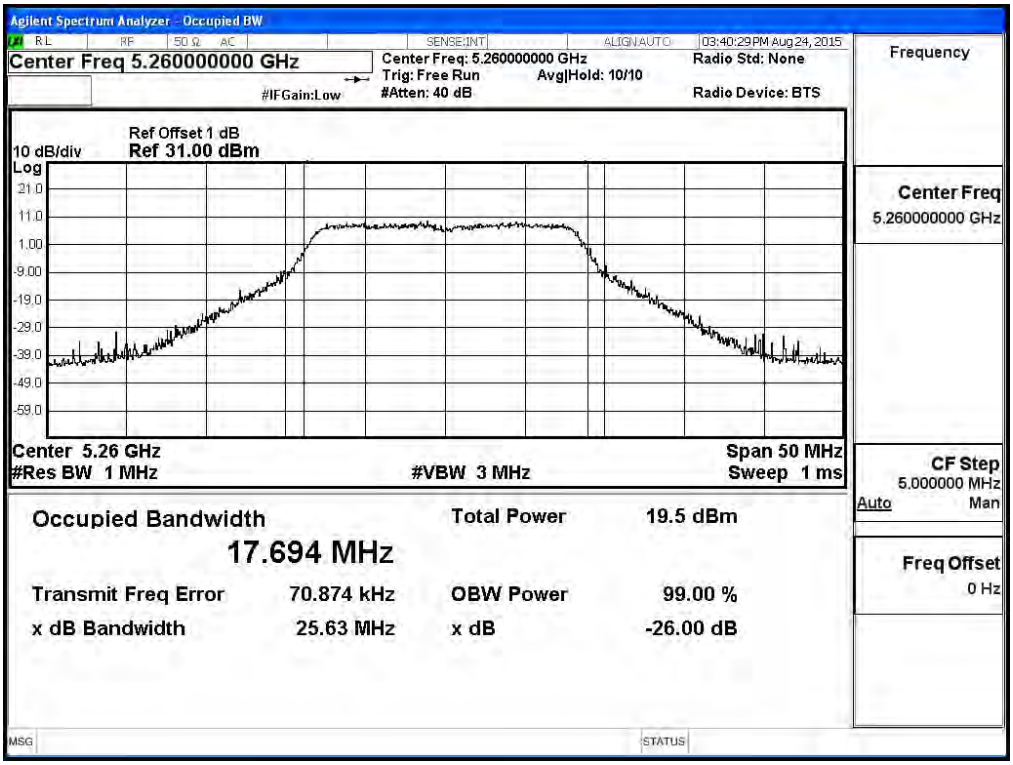
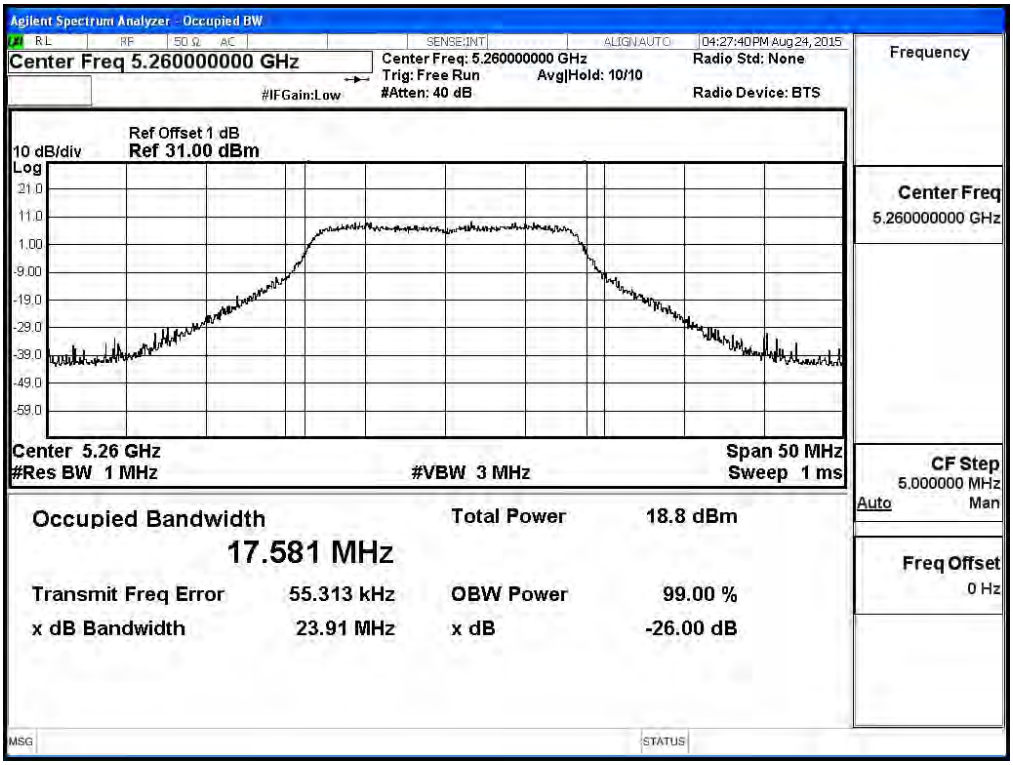
99% Occupied Bandwidth:

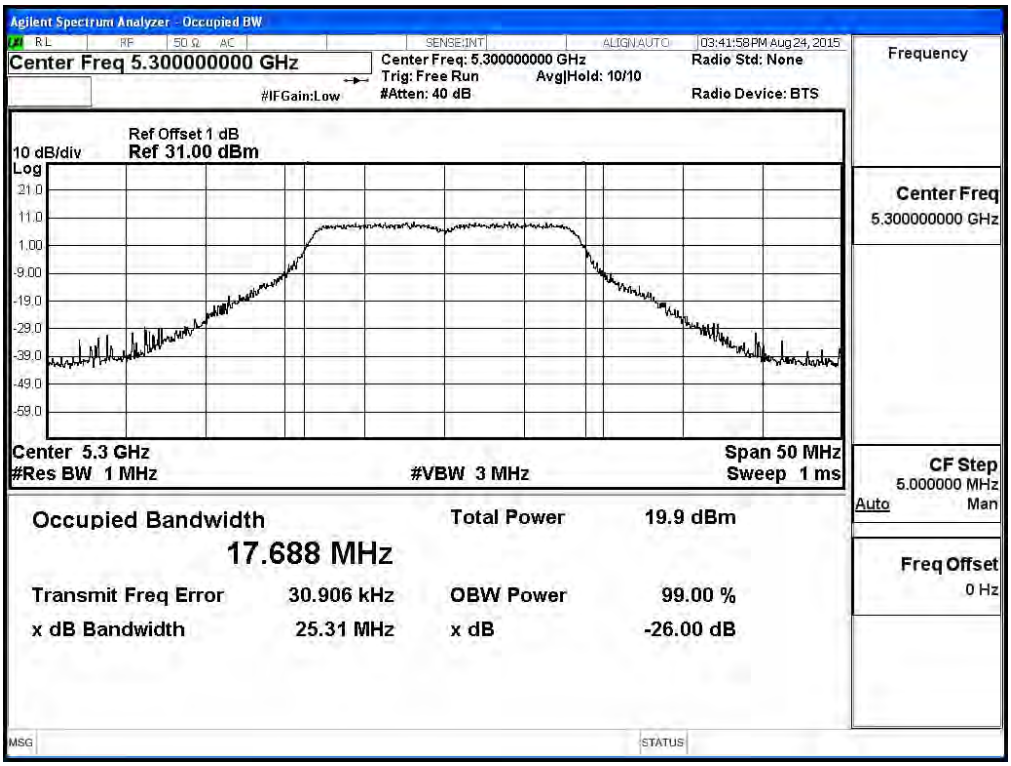
Channel 52: Chain A



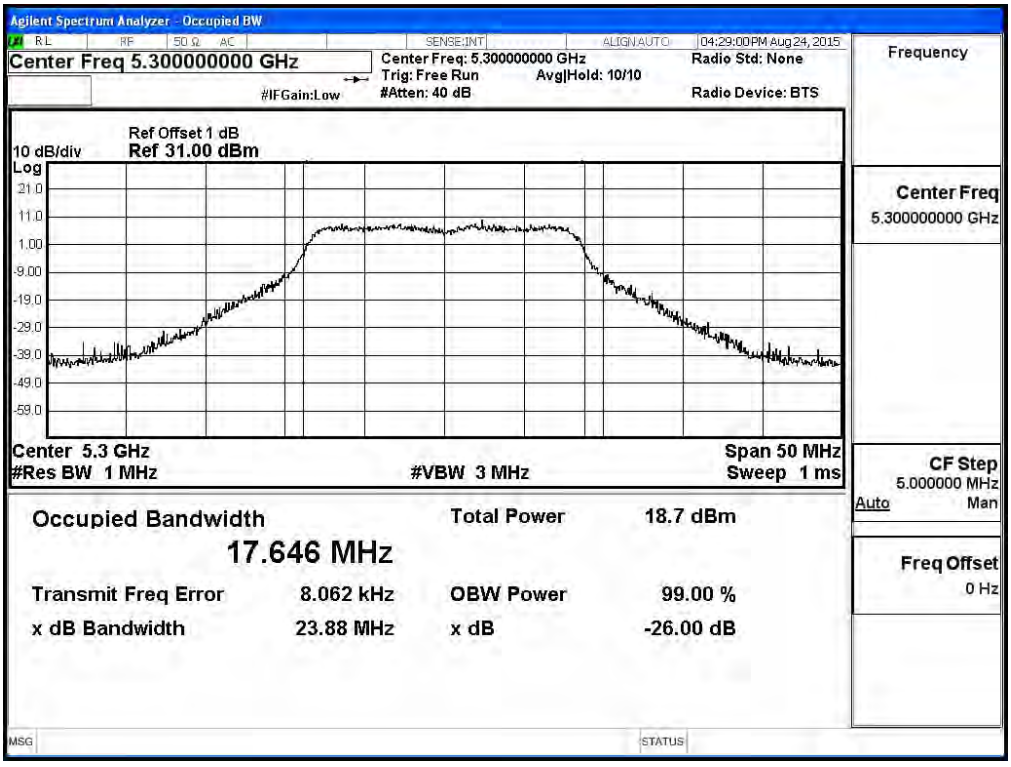
Channel 52: Chain B



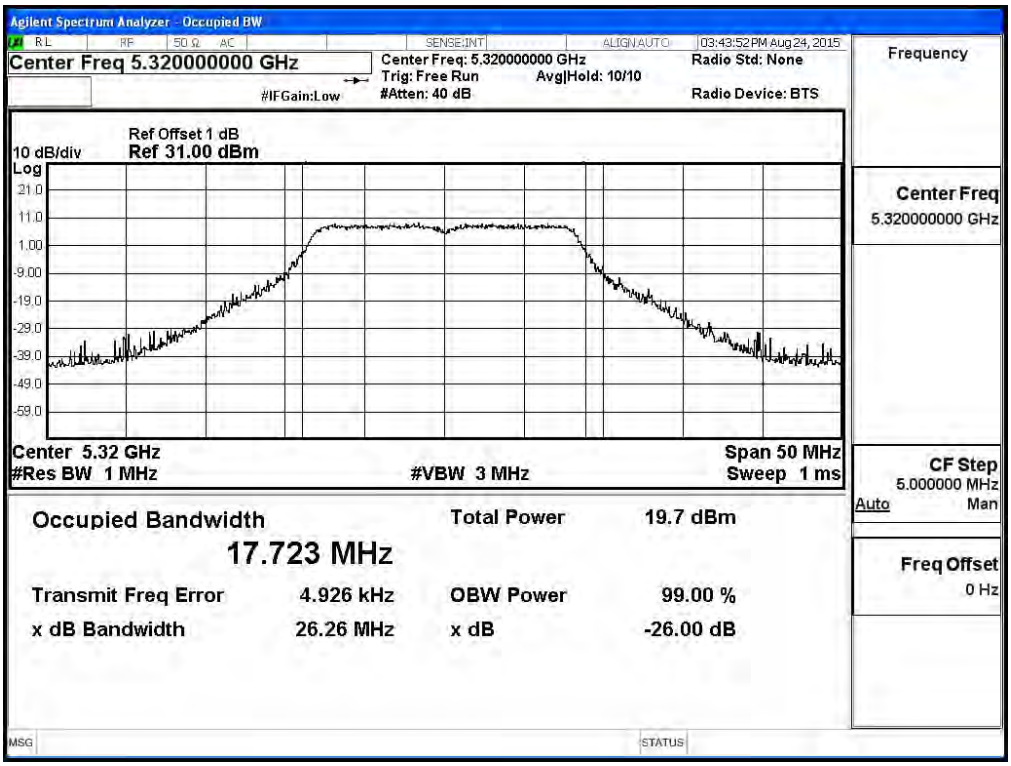
Channel 60: Chain A



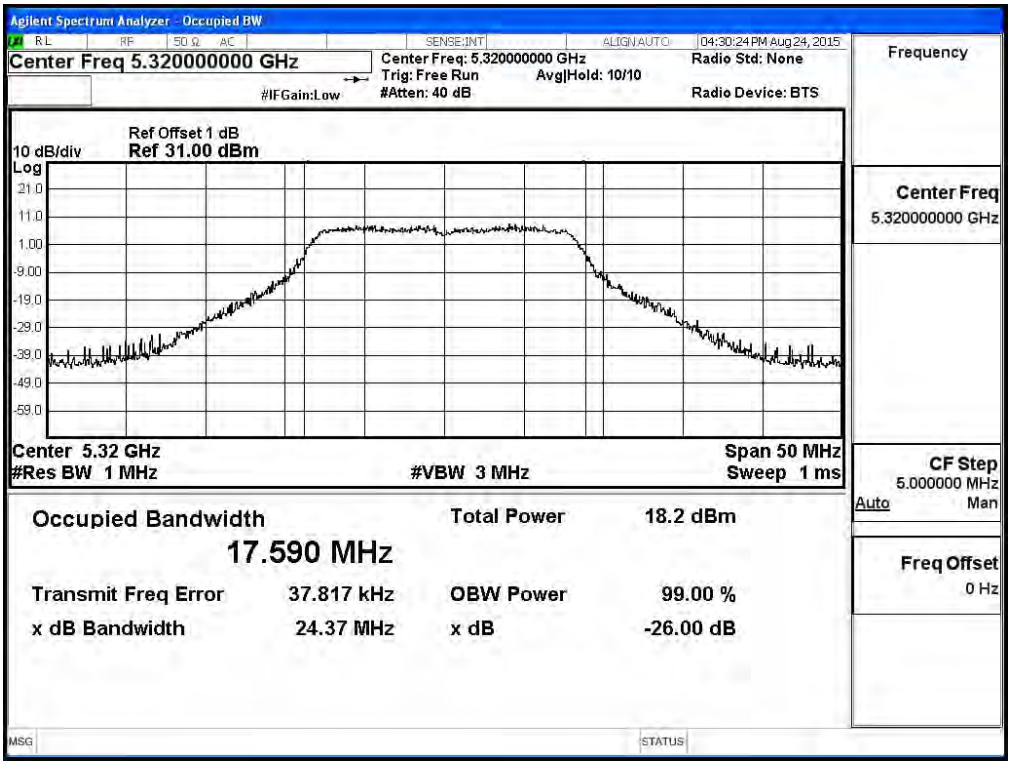
Channel 60: Chain B



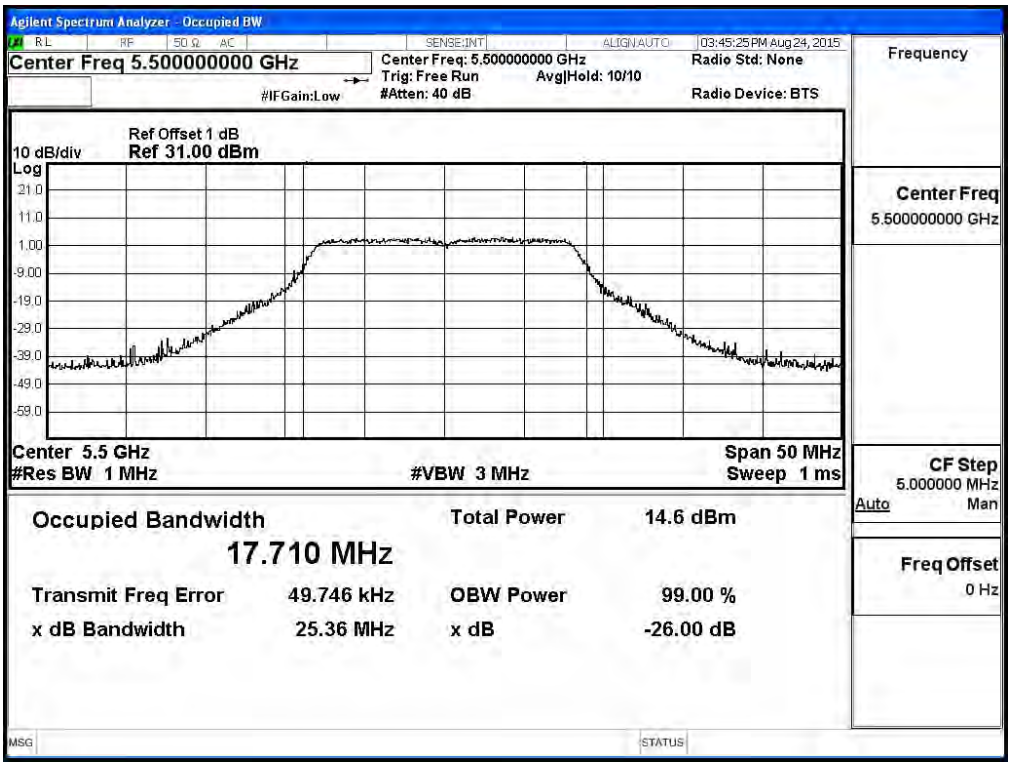
Channel 64: Chain A



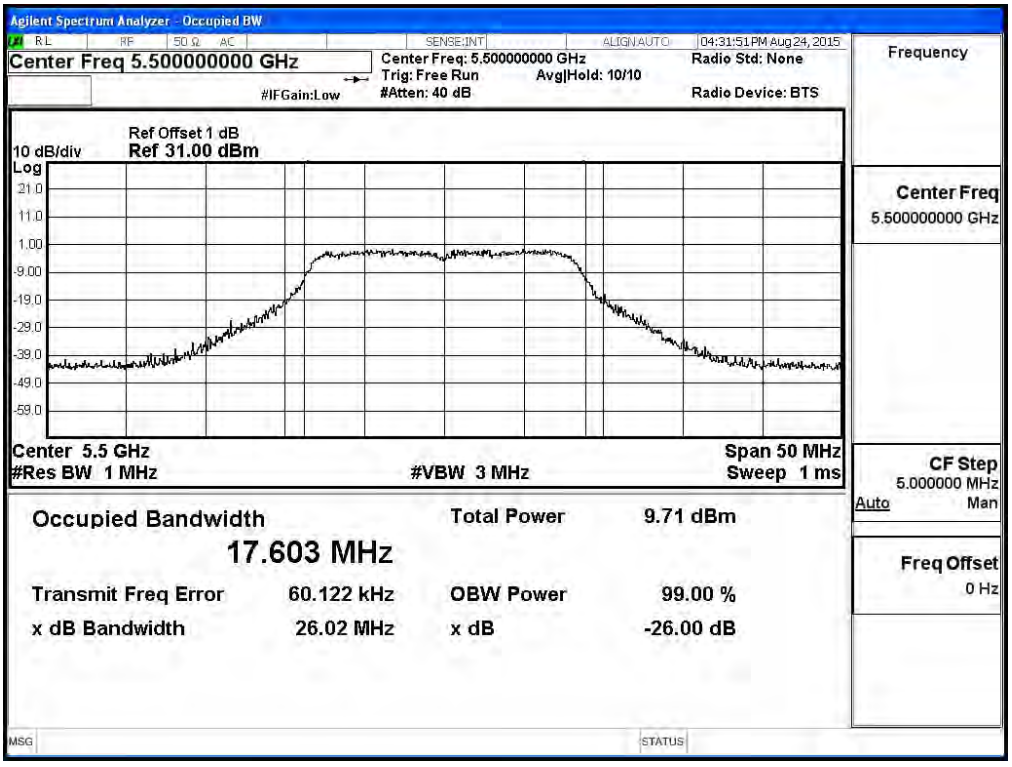
Channel 64: Chain B



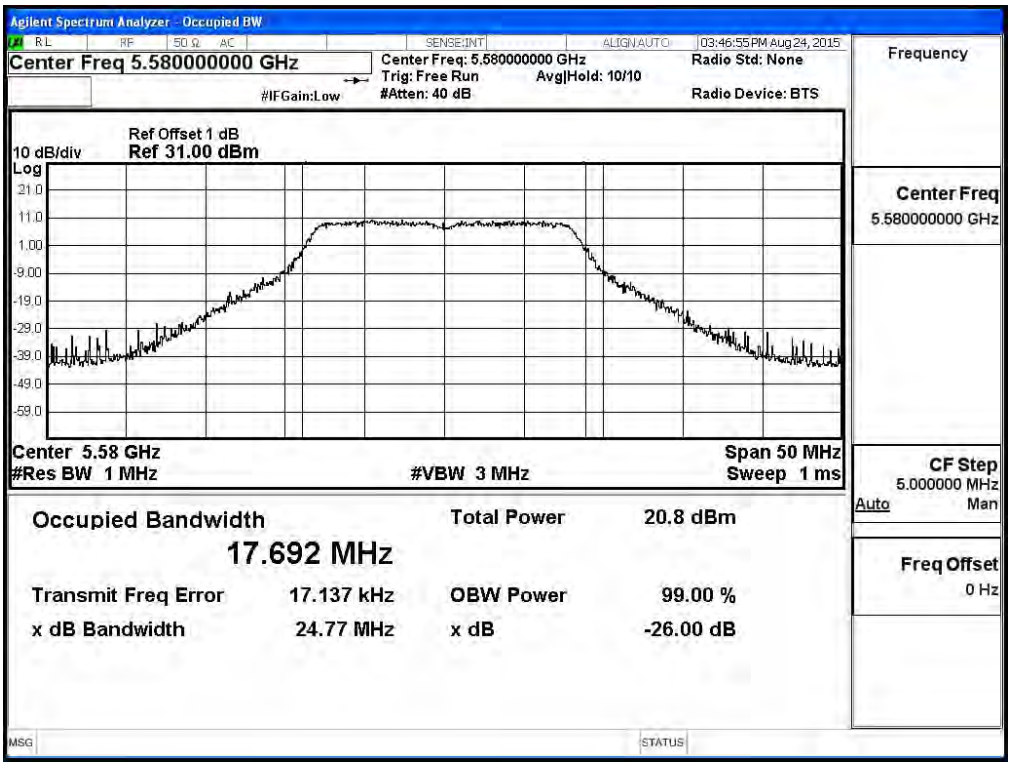
Channel 100: Chain A



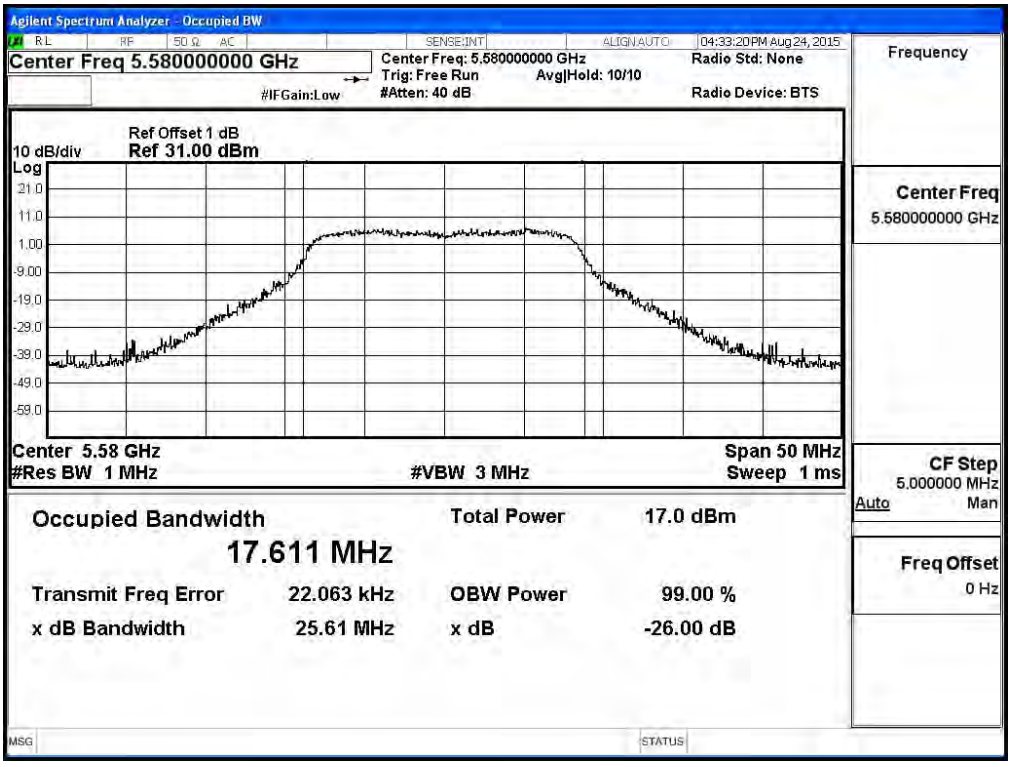
Channel 100: Chain B



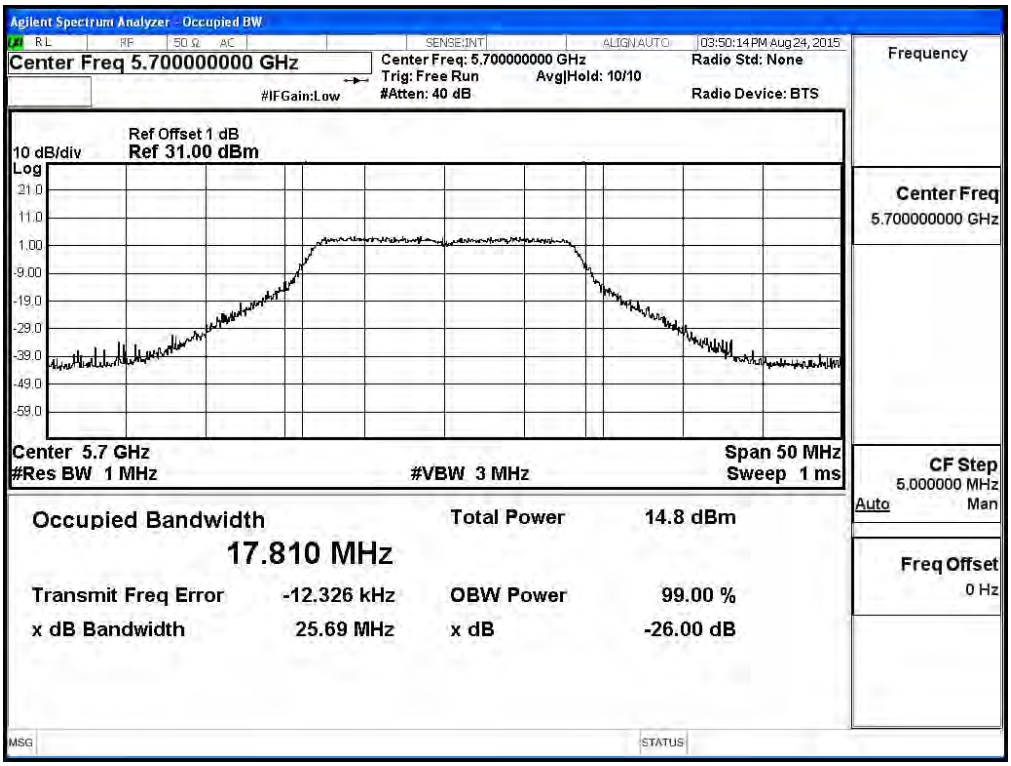
Channel 116: Chain A



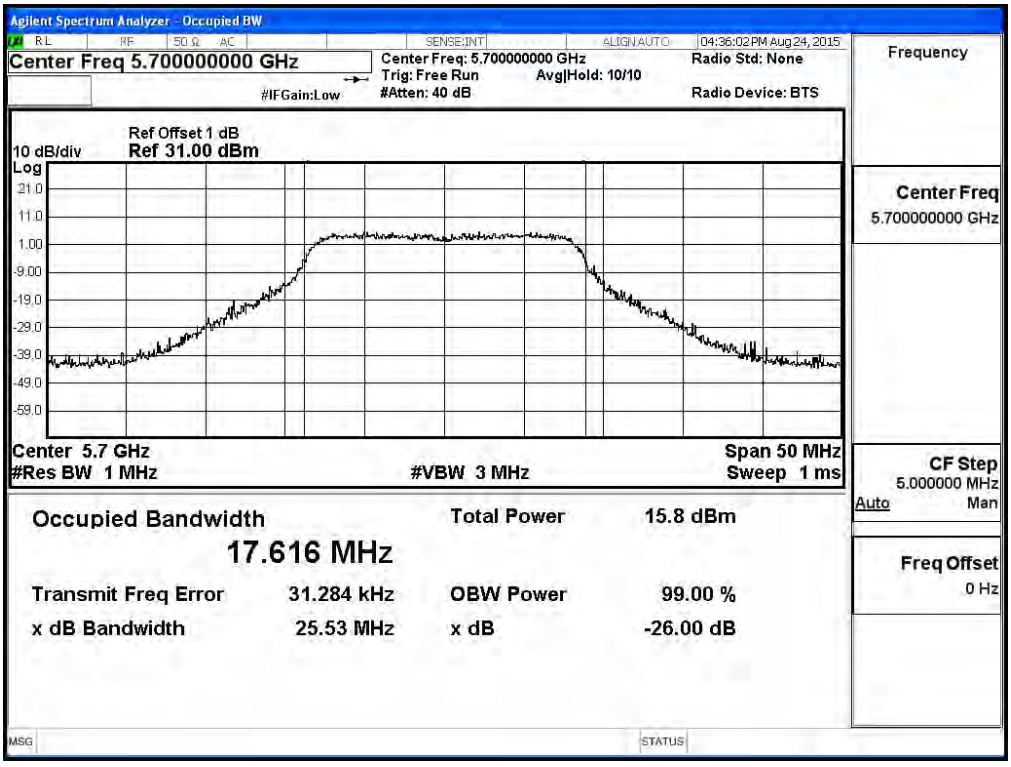
Channel 116: Chain B



Channel 140: Chain A



Channel 140: Chain B



Product : 802.11 ac PCIe Module
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 14: Transmit (802.11n-20BW 14.4Mbps)(Omni Antenna)

CHAIN A

Cable loss=1dB		Maximum conducted output power							
Channel No.	Frequency (MHz)	Data Rate (Mbps)							
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4
		Measurement Level (dBm)							
52	5260	9.68	--	--	--	--	--	--	--
60	5300	9.95	9.83	9.71	9.55	9.44	9.33	9.25	9.16
64	5320	9.67	--	--	--	--	--	--	--
100	5500	9.03	--	--	--	--	--	--	--
116	5580	15.58	15.49	15.41	15.34	15.21	15.05	14.94	14.79
140	5700	7.81	--	--	--	--	--	--	--

Note: 1.Maximum conducted output power Value =Reading value on average power meter + cable loss

CHAIN B

Cable loss=1dB		Maximum conducted output power							
Channel No.	Frequency (MHz)	Data Rate (Mbps)							
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4
		Measurement Level (dBm)							
52	5260	8.57	8.44	8.31	8.19	8.13	8.01	7.95	7.79
60	5300	8.29	--	--	--	--	--	--	--
64	5320	8.12	--	--	--	--	--	--	--
100	5500	3.48	--	--	--	--	--	--	--
116	5580	11.18	11.06	10.83	10.75	10.68	10.56	10.44	10.36
140	5700	8.45	--	--	--	--	--	--	--

Note: 1.Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power measurement:

CHAIN A+B

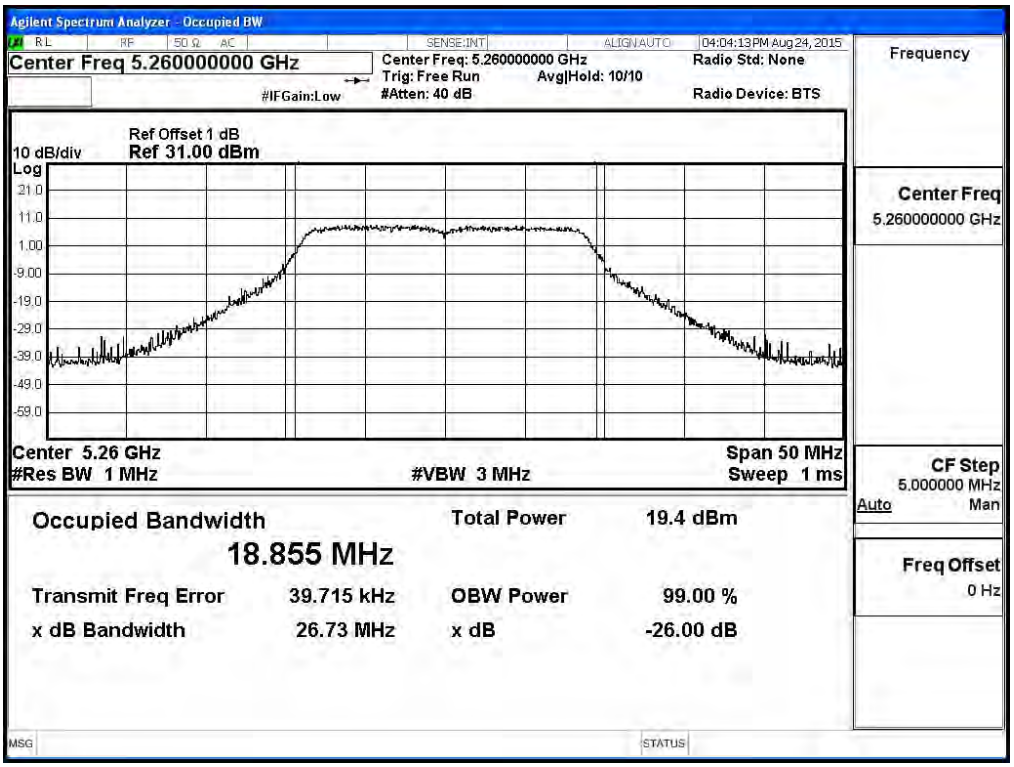
Channel Number	Frequency (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Total Power (dBm)	Output power Limit	
						(dBm)	dBm+10log(BW)
52	5260	18.855	9.68	8.57	12.17	20	23.75
60	5300	18.785	9.95	8.29	12.21	20	23.74
64	5320	18.782	9.67	8.12	11.97	20	23.74
100	5500	18.724	9.03	3.48	10.10	20	23.72
116	5580	18.644	15.58	11.18	16.93	20	23.71
140	5700	18.763	7.81	8.45	11.15	20	23.73

Note:

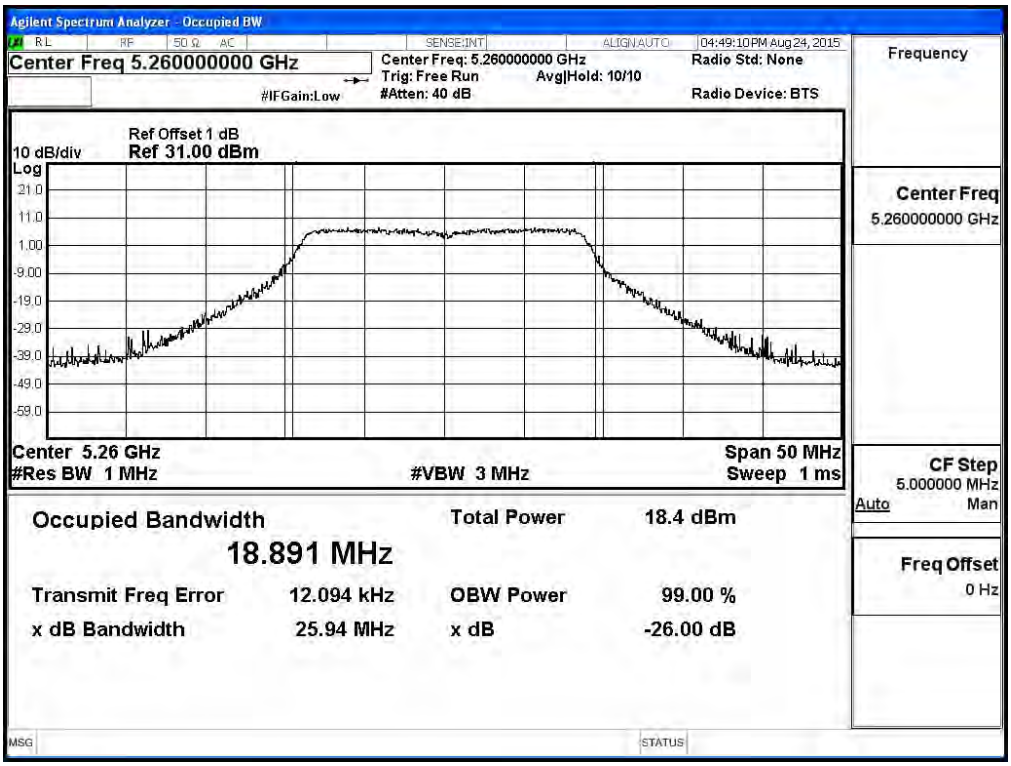
1. Power Output Value =Reading value on average power meter + cable loss.
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)).
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

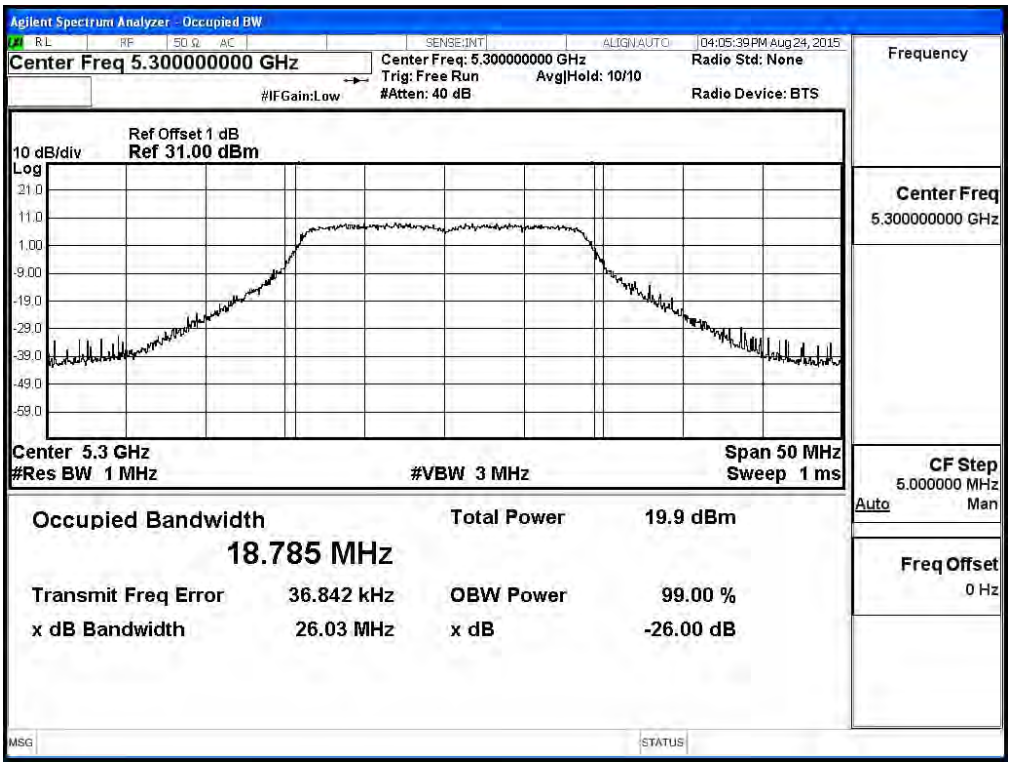
Channel 52: Chain A



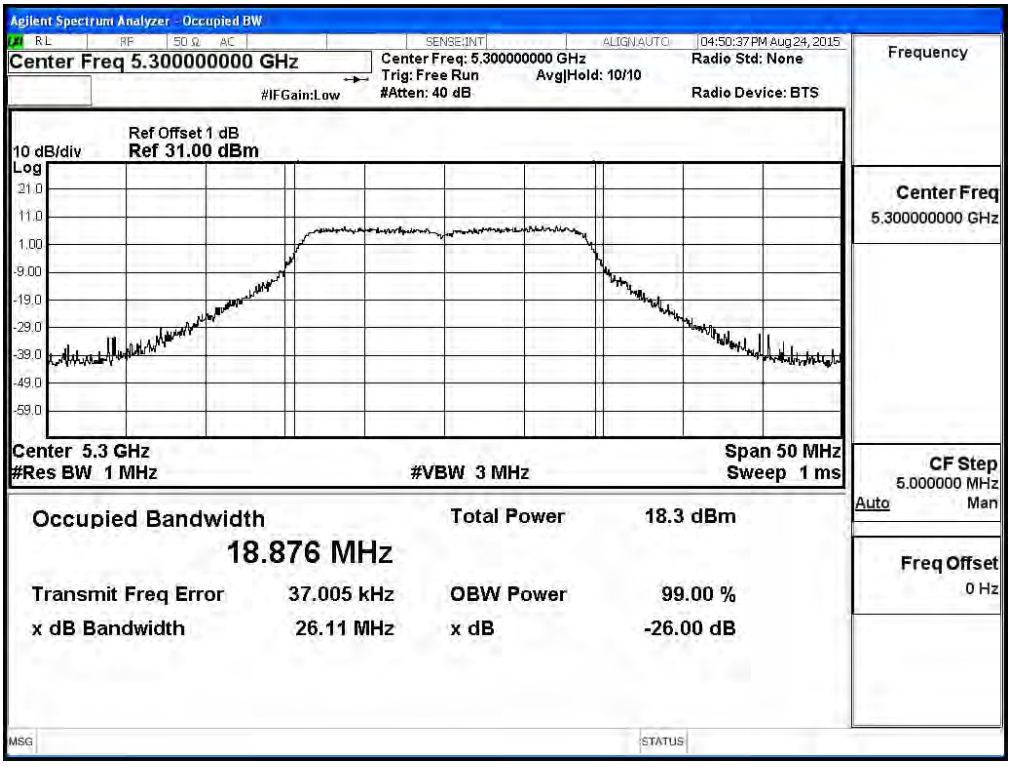
Channel 52: Chain B



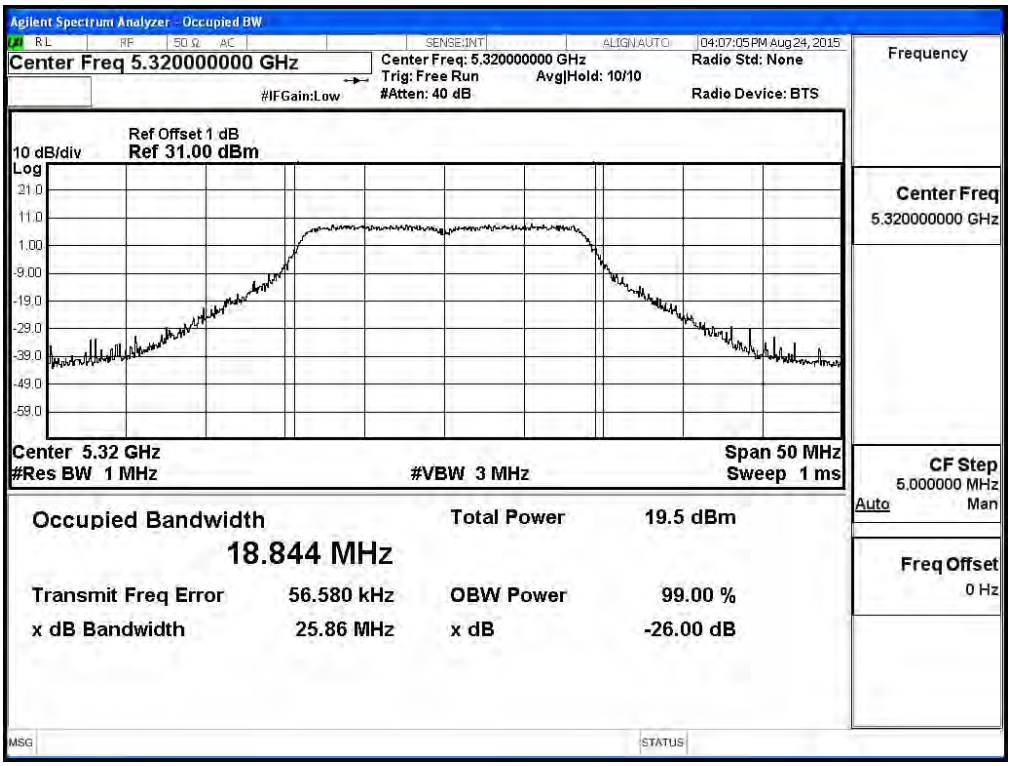
Channel 60: Chain A



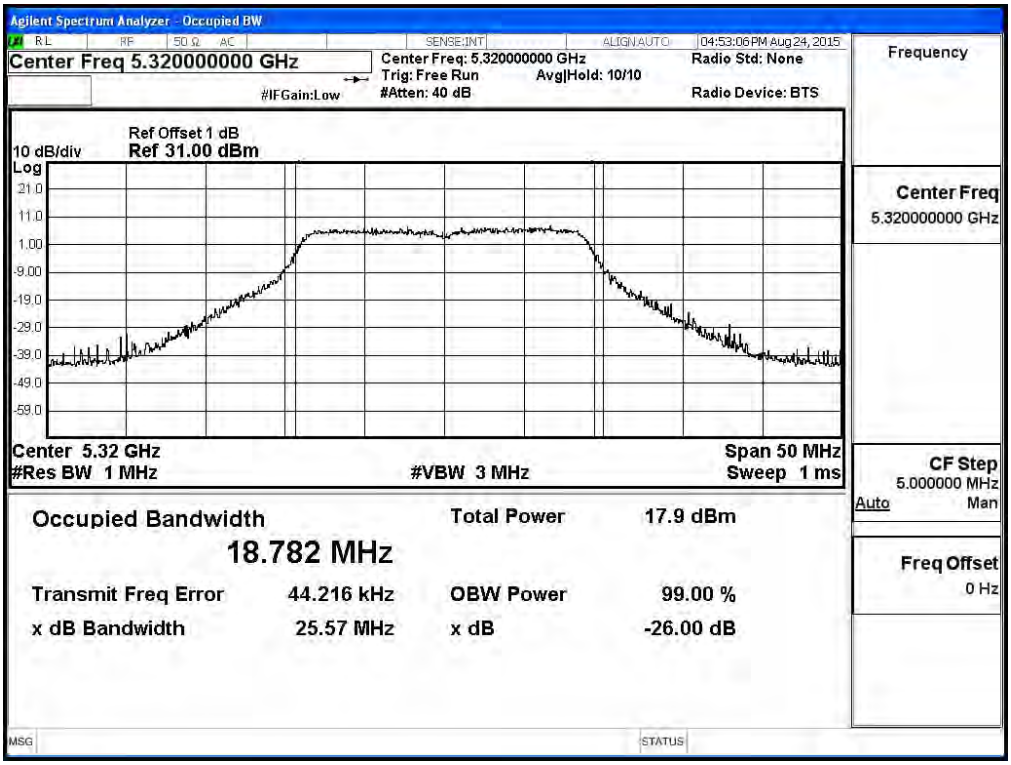
Channel 60: Chain B



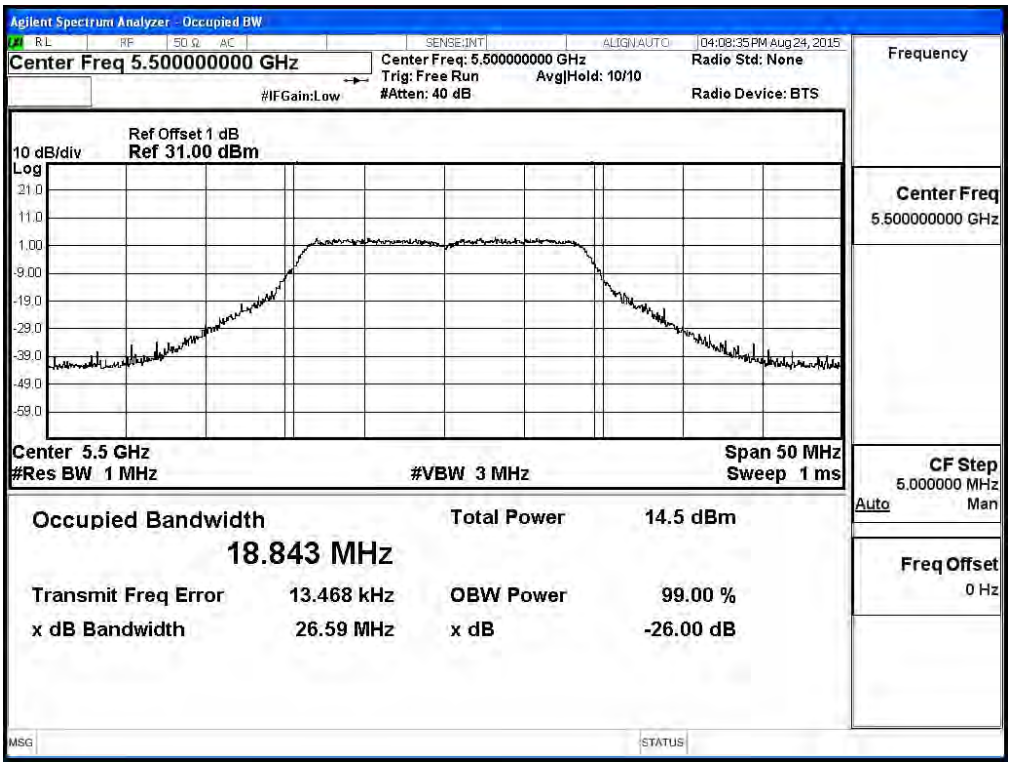
Channel 64: Chain A



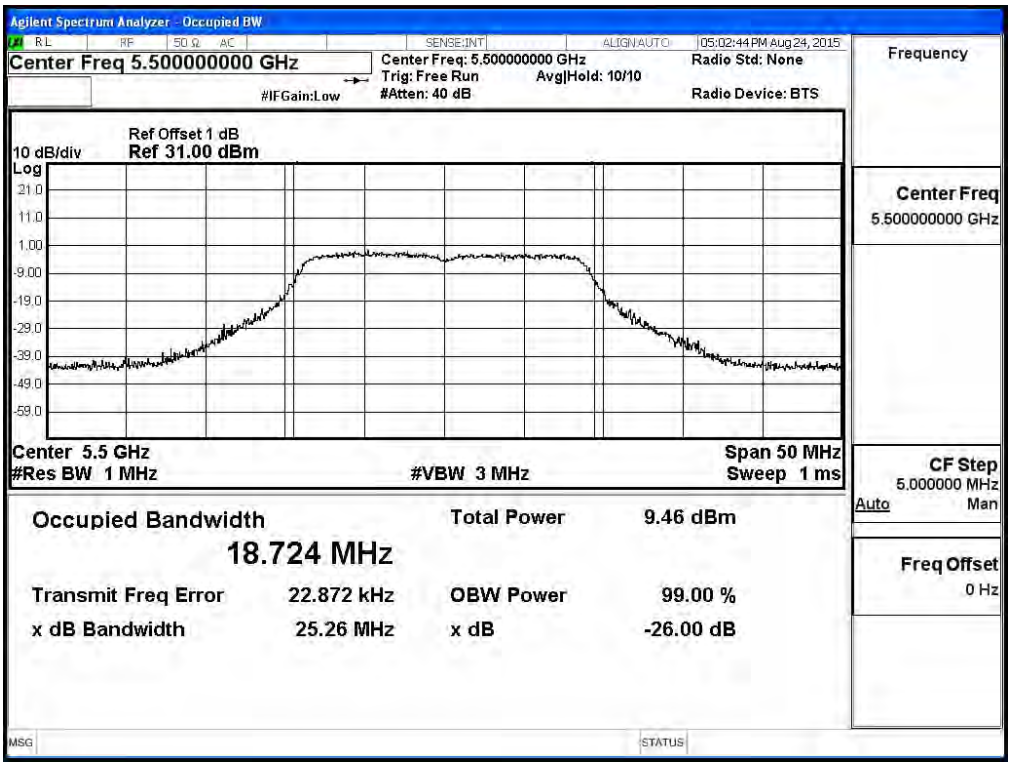
Channel 64: Chain B



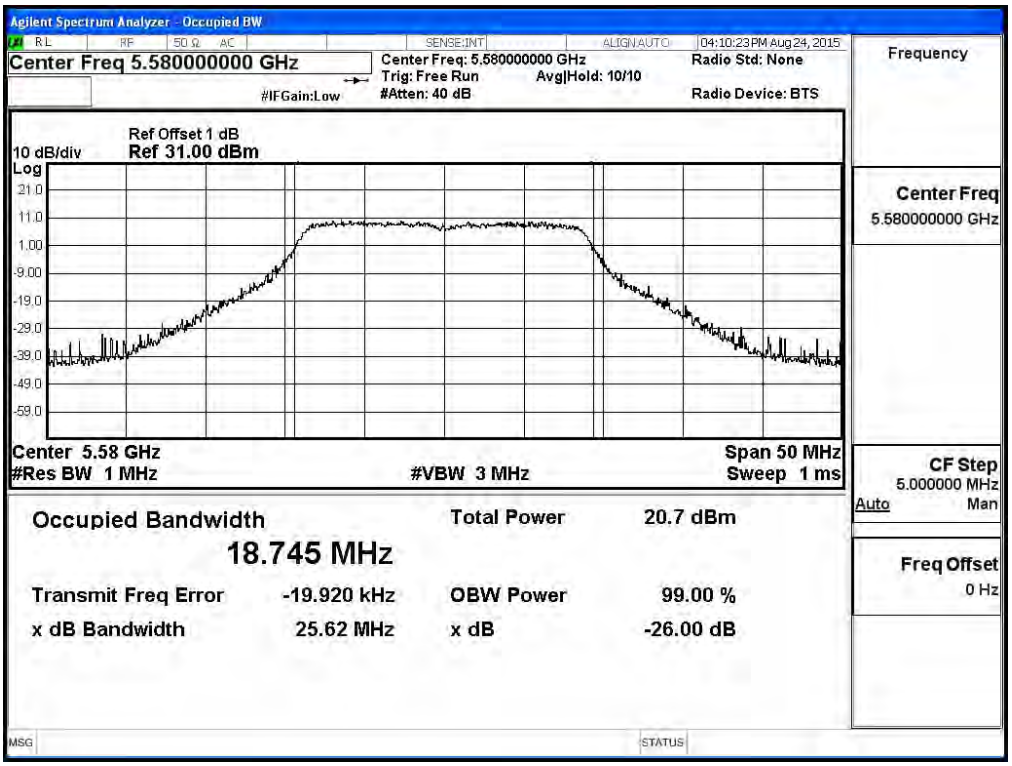
Channel 100: Chain A



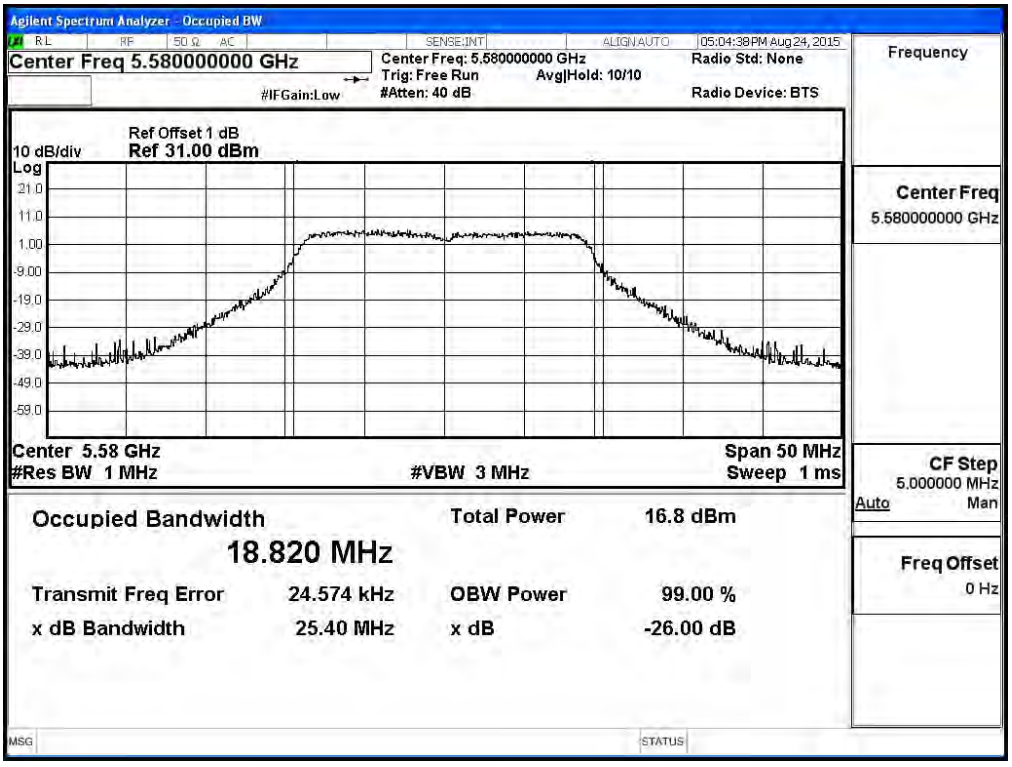
Channel 100: Chain B



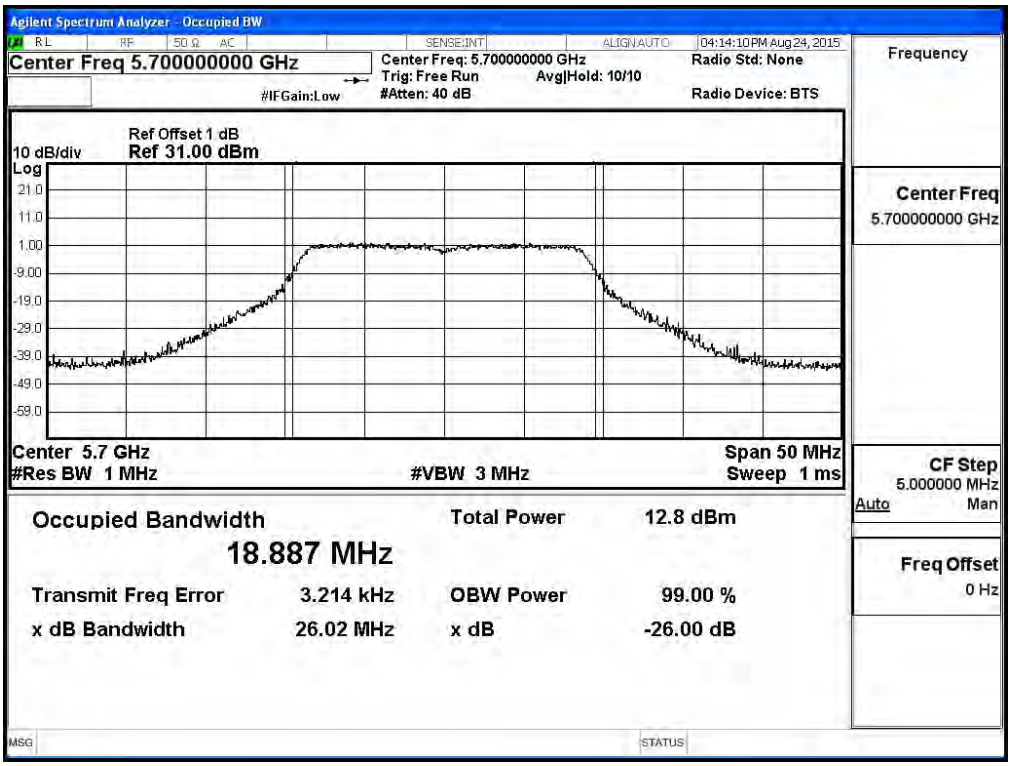
Channel 116: Chain A



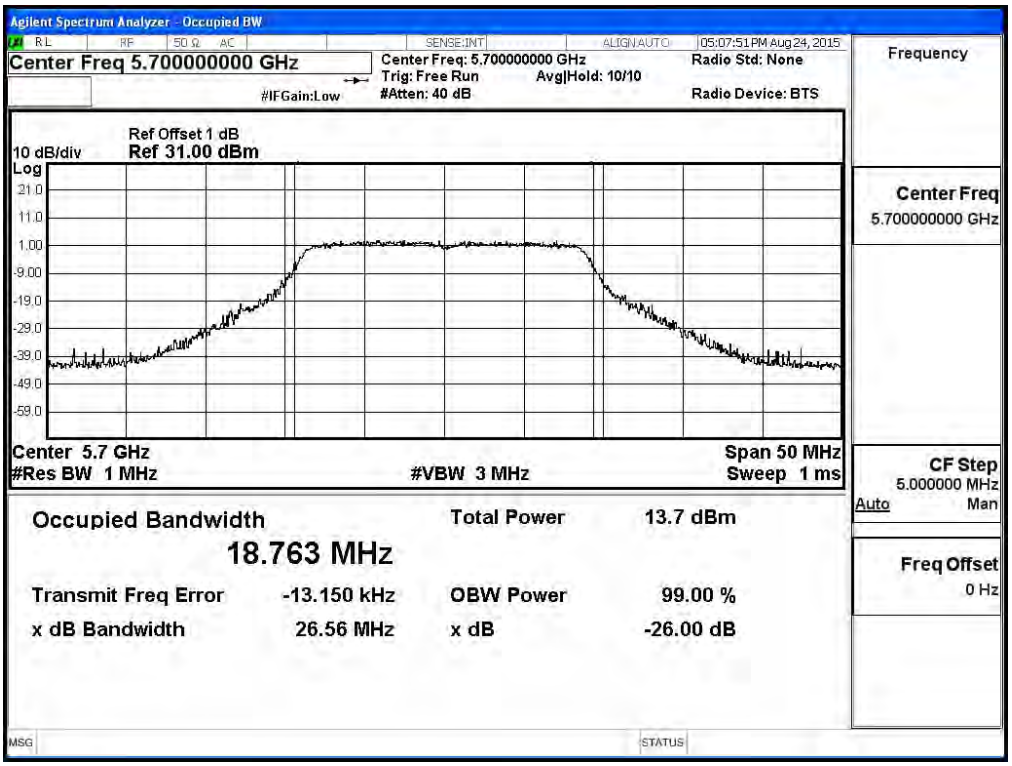
Channel 116: Chain B



Channel 140: Chain A



Channel 140: Chain B



Product : 802.11 ac PCIe Module
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 15: Transmit (802.11n-40BW 30Mbps)(Omni Antenna)

CHAIN A

Cable loss=1dB		Maximum conducted output power							
Channel No.	Frequency (MHz)	Data Rate (Mbps)							
		30	60	90	120	180	240	270	300
		Measurement Level (dBm)							
54	5270	9.72	9.6	9.48	9.37	9.22	9.1	8.97	8.88
62	5310	9.66	--	--	--	--	--	--	--
102	5510	8.76	--	--	--	--	--	--	--
110	5550	18.26	18.16	18.1	17.95	17.82	17.68	17.56	17.45
134	5670	10.28	--	--	--	--	--	--	--

Note: 1.Maximum conducted output power Value =Reading value on average power meter + cable loss

CHAIN B

Cable loss=1dB		Maximum conducted output power							
Channel No.	Frequency (MHz)	Data Rate (Mbps)							
		30	60	90	120	180	240	270	300
		Measurement Level (dBm)							
54	5270	8.71	--	--	--	--	--	--	--
62	5310	8.91	8.82	8.75	8.62	8.36	8.21	8.13	8.05
102	5510	3.09	--	--	--	--	--	--	--
110	5550	14.04	13.95	13.87	13.7	13.62	13.54	13.43	13.32
134	5670	9.76	--	--	--	--	--	--	--

Note: 1.Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power measurement:

CHAIN A+B

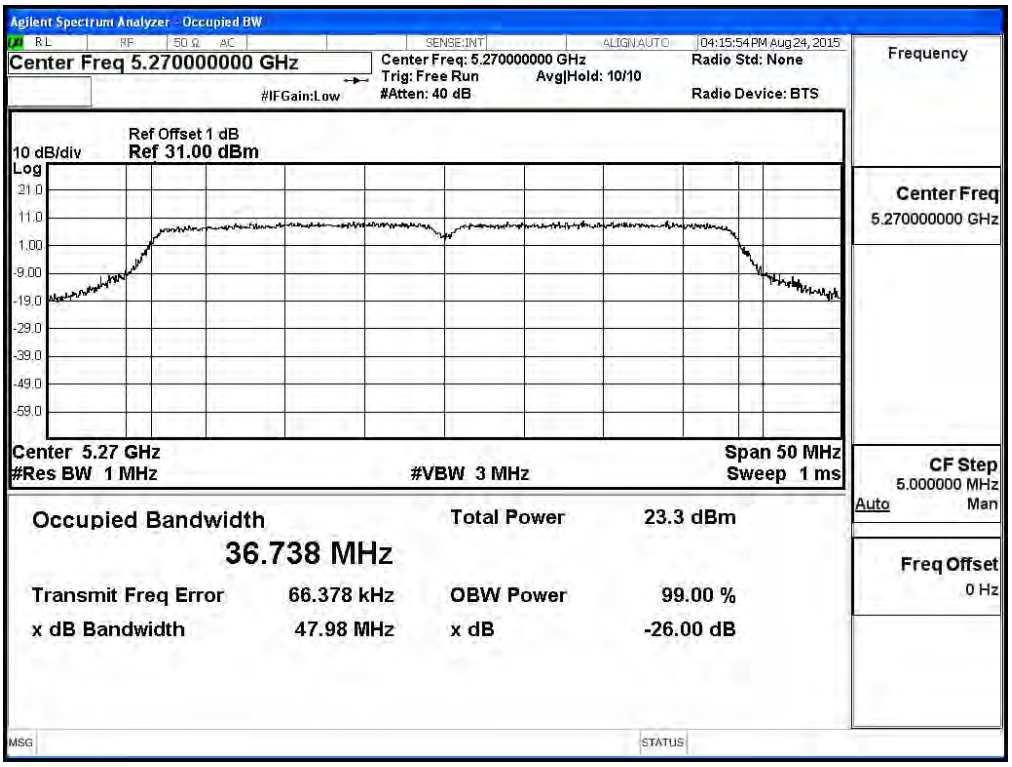
Channel Number	Frequency (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Total Power (dBm)	Output power Limit	
						(dBm)	dBm+10log(BW)
54	5270	36.736	9.72	8.71	12.25	20	26.65
62	5310	36.768	9.66	8.91	12.31	20	26.65
102	5510	36.851	8.76	3.09	9.80	20	26.66
110	5550	36.767	18.26	14.04	19.65	20	26.65
134	5670	36.991	10.28	9.76	13.04	20	26.68

Note:

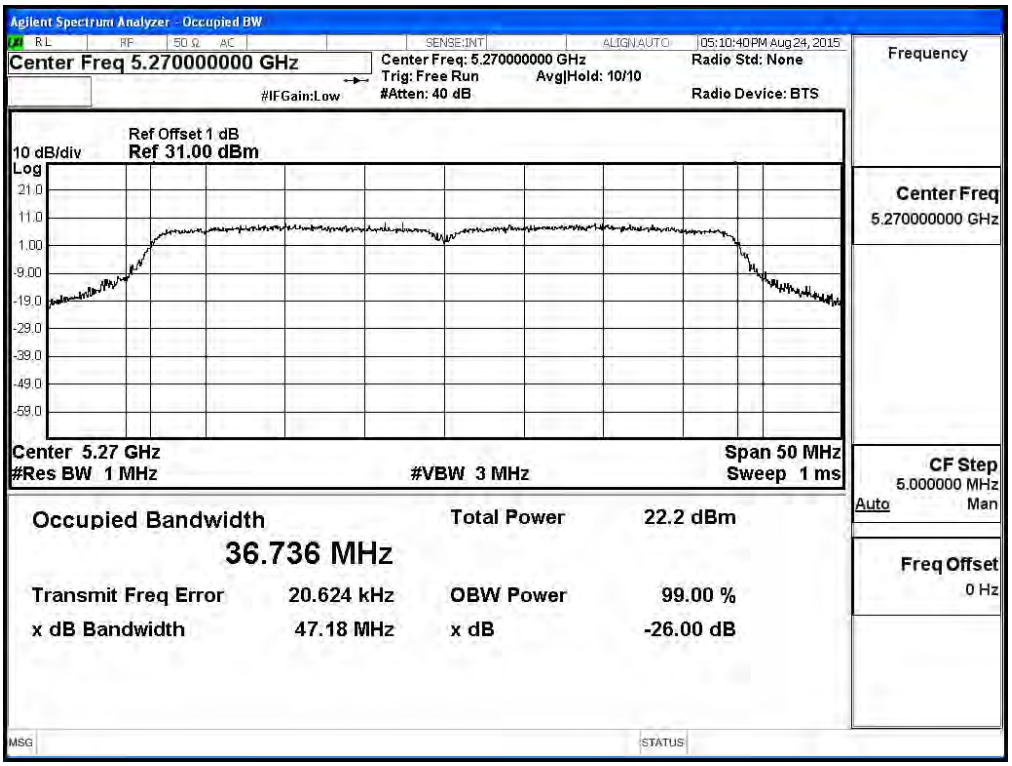
1. Power Output Value =Reading value on average power meter + cable loss.
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)).
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

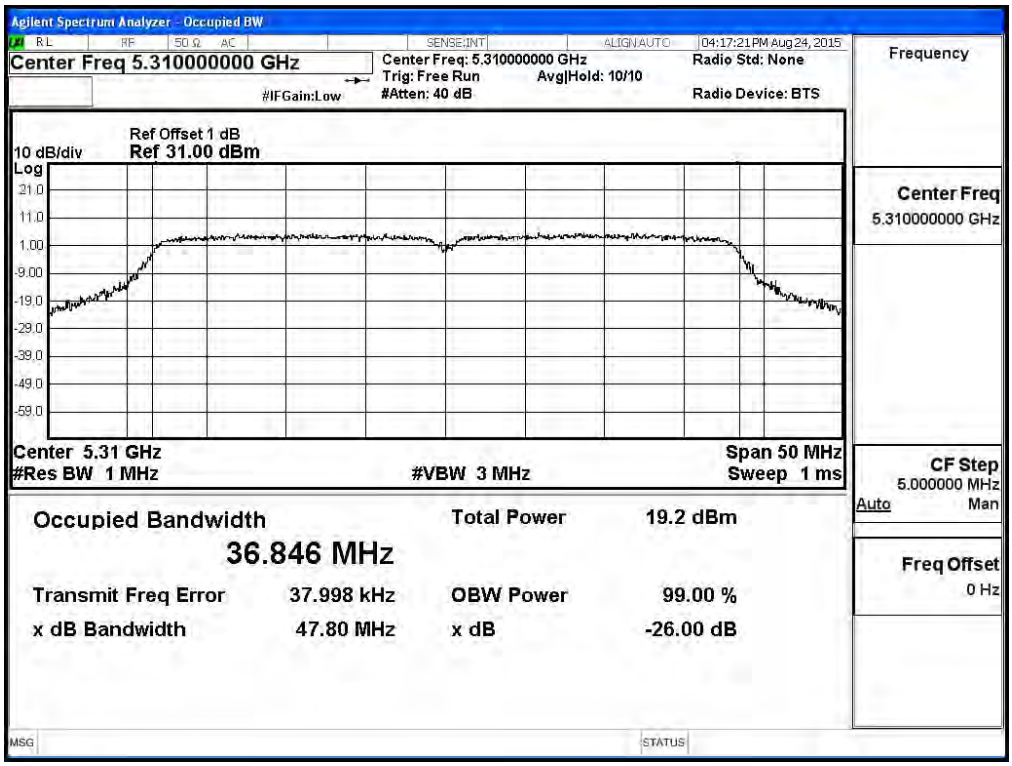
Channel 54: Chain A



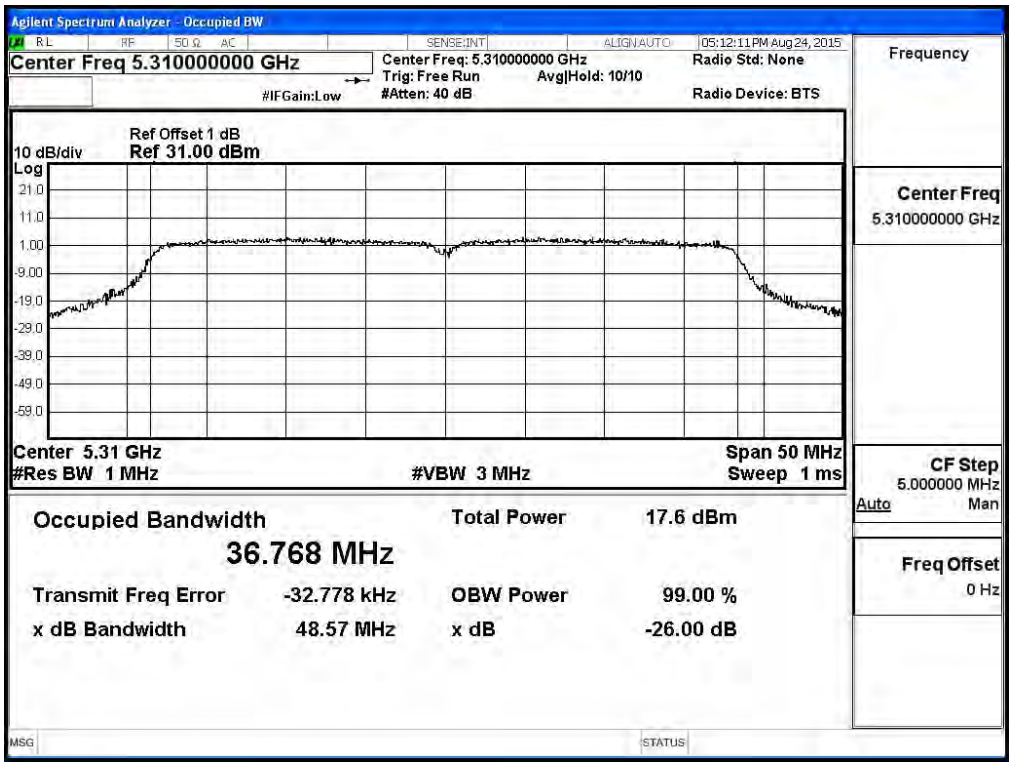
Channel 54: Chain B



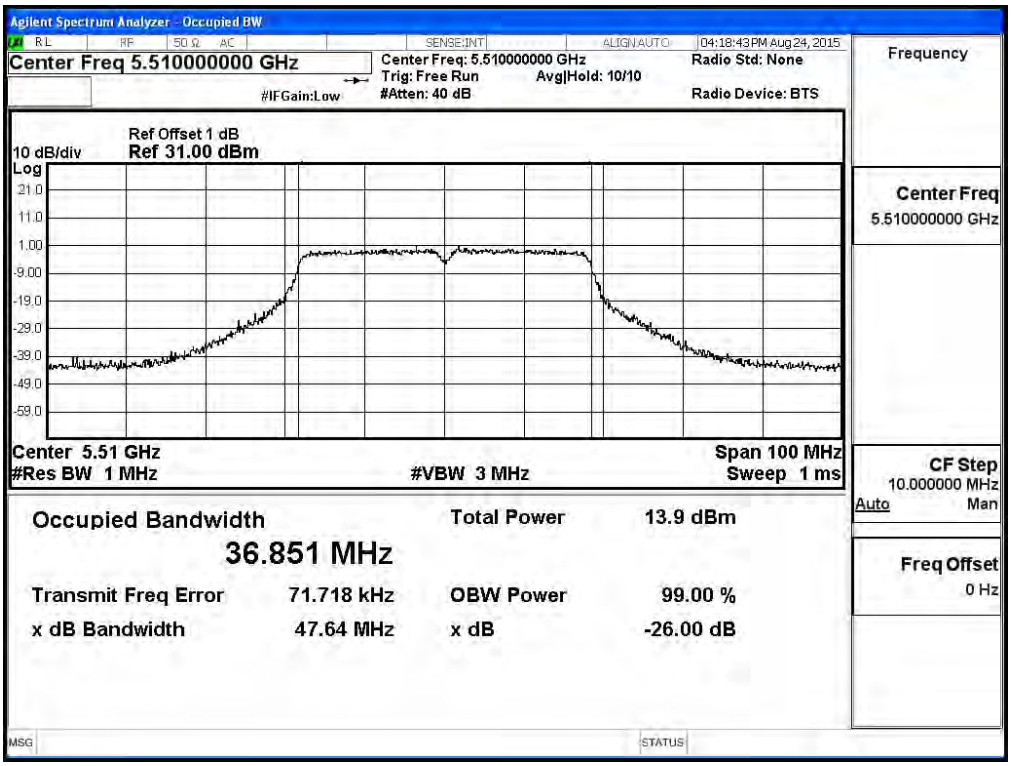
Channel 62: Chain A



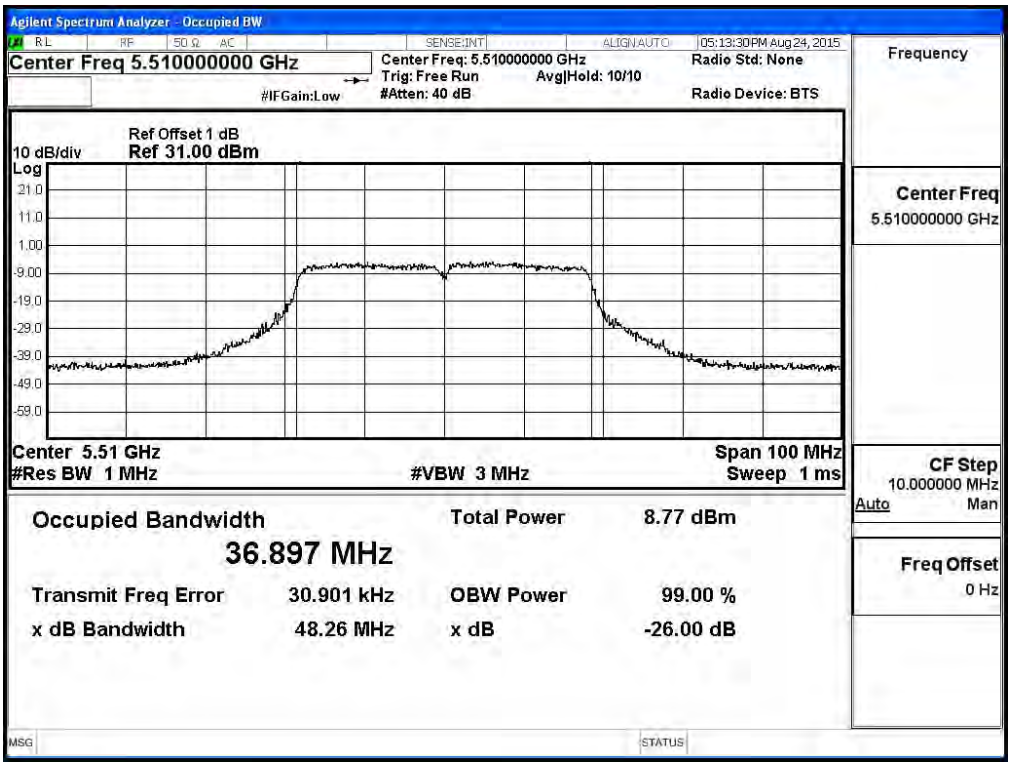
Channel 62: Chain B



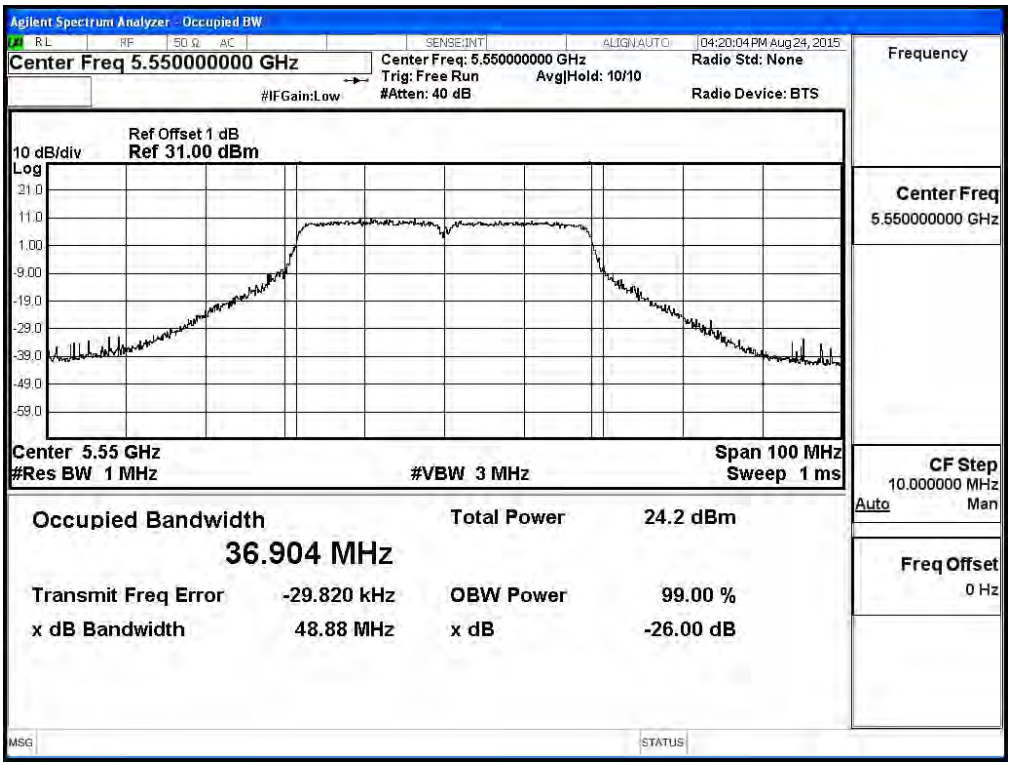
Channel 102: Chain A



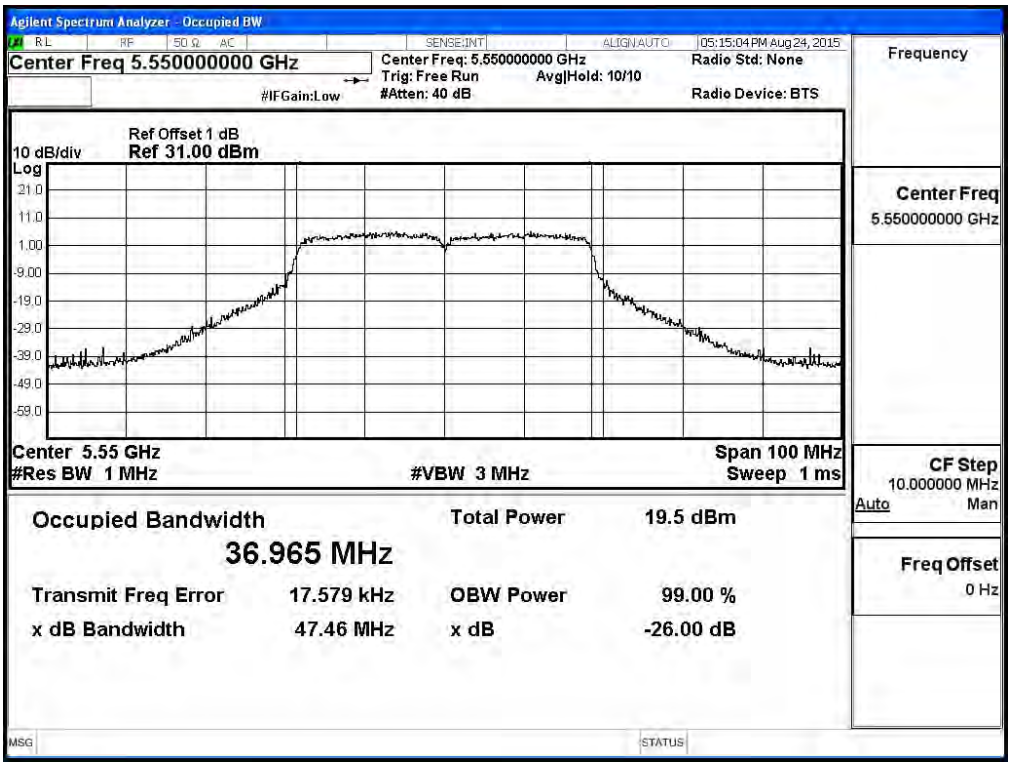
Channel 102: Chain B



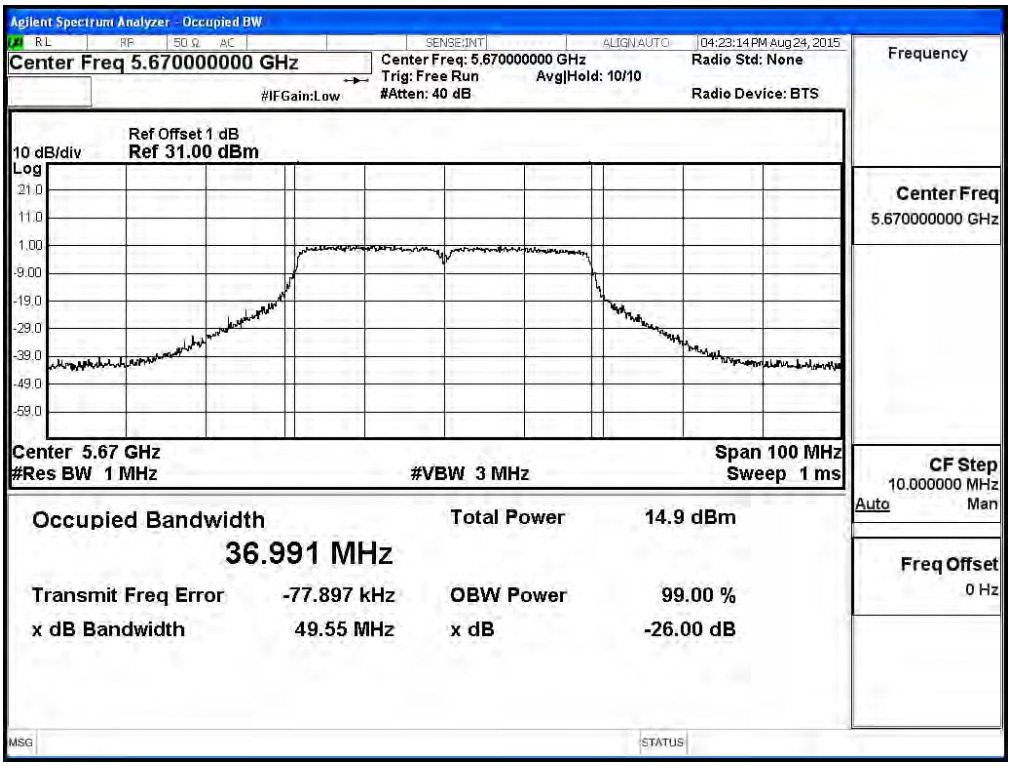
Channel 110: Chain A



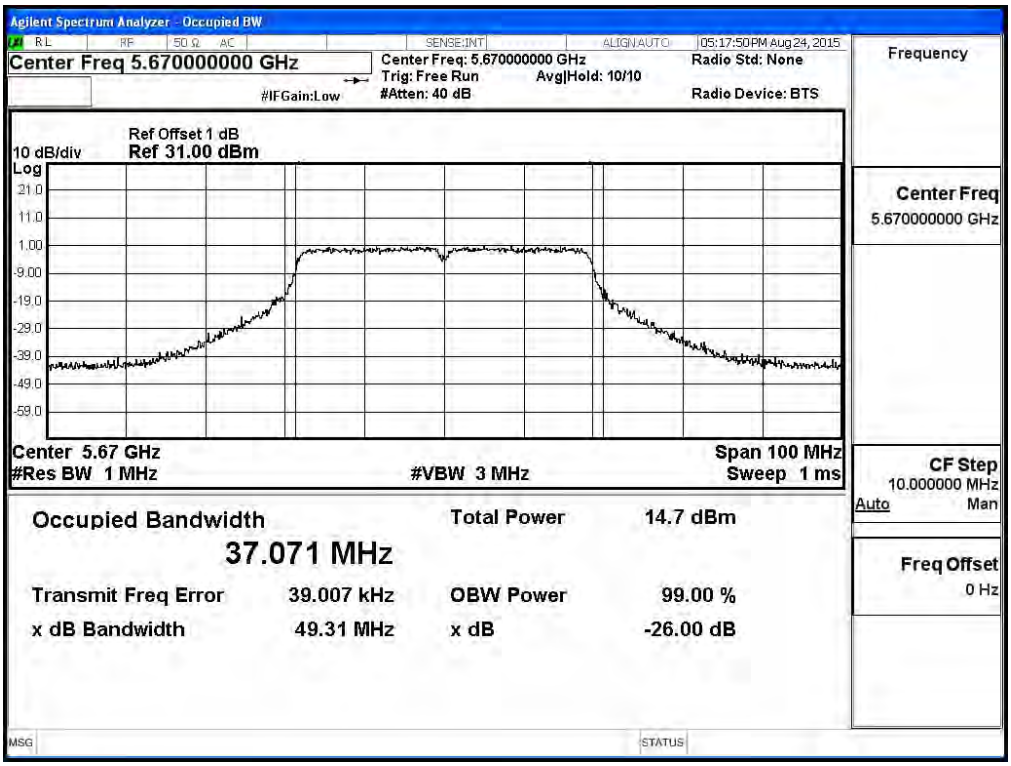
Channel 110: Chain B



Channel 134: Chain A



Channel 134: Chain B



Product : 802.11 ac PCIe Module
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 16: Transmit (802.11ac-20BW-14.4Mbps)(Omni Antenna)

Chain A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8
		Measurement Level (dBm)								
144 (Band3)	5720	12.85	12.77	12.7	12.53	12.36	12.28	12.2	12.14	12.08
144 (Band4)	5720	6.75	6.67	6.59	6.55	6.47	6.36	6.17	6.05	5.97

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8
		Measurement Level (dBm)								
144 (Band3)	5720	13.89	13.81	13.69	13.59	13.47	13.38	13.25	13.17	13.06
144 (Band4)	5720	8.09	8	7.94	7.81	7.73	7.64	7.5	7.39	7.32

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

CHAIN A+B

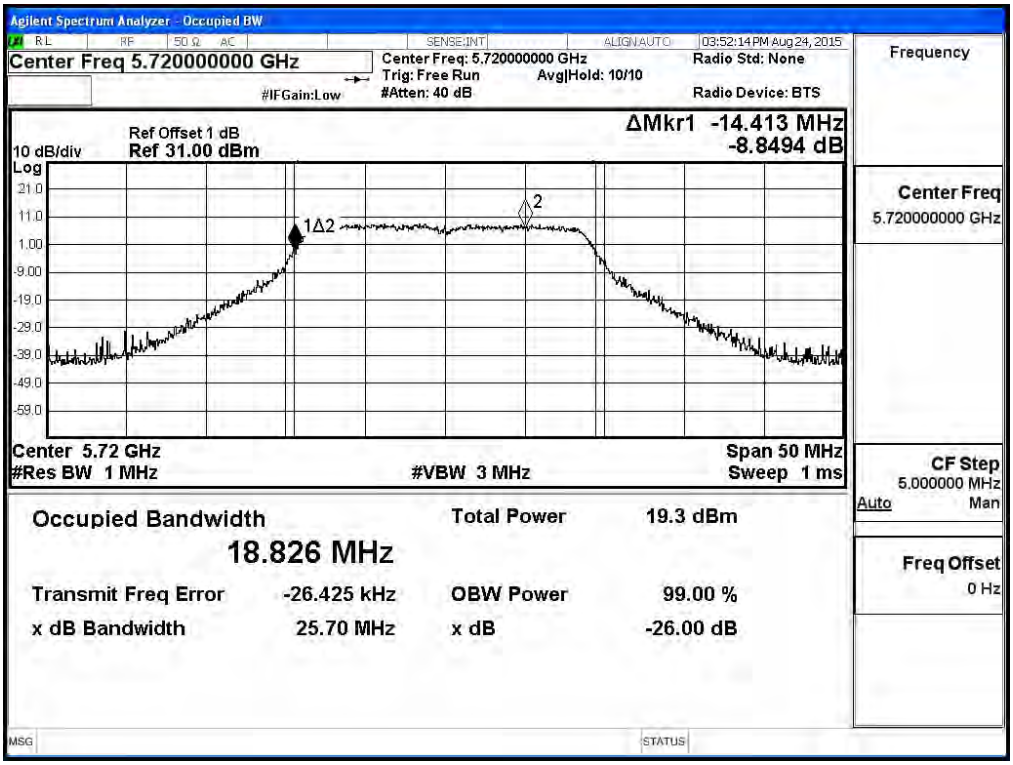
Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit		Result
						(dBm)	dBm+10log(BW)	
144(Band3)	5720	14.368	12.85	13.89	16.41	20	22.57	Pass
144(Band4)	5720	4.369	6.75	8.09	10.48	30	17.40	Pass

Note:

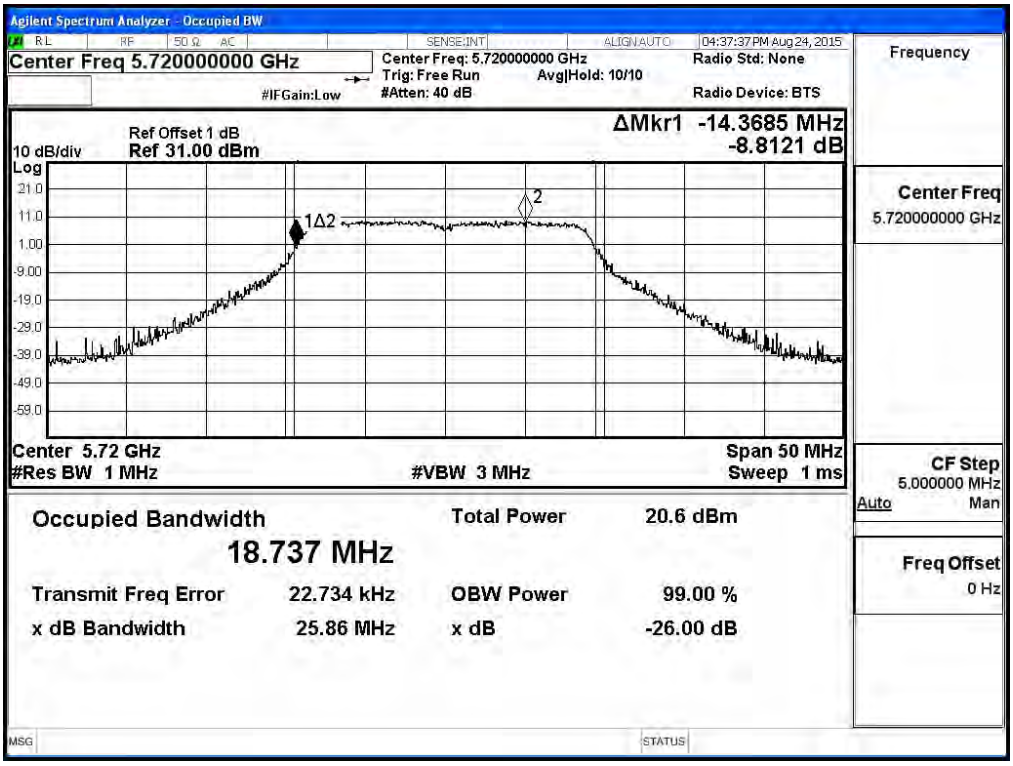
1. Power Output Value =Reading value on average power meter + cable loss.
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)).
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

Channel 144: Chain A

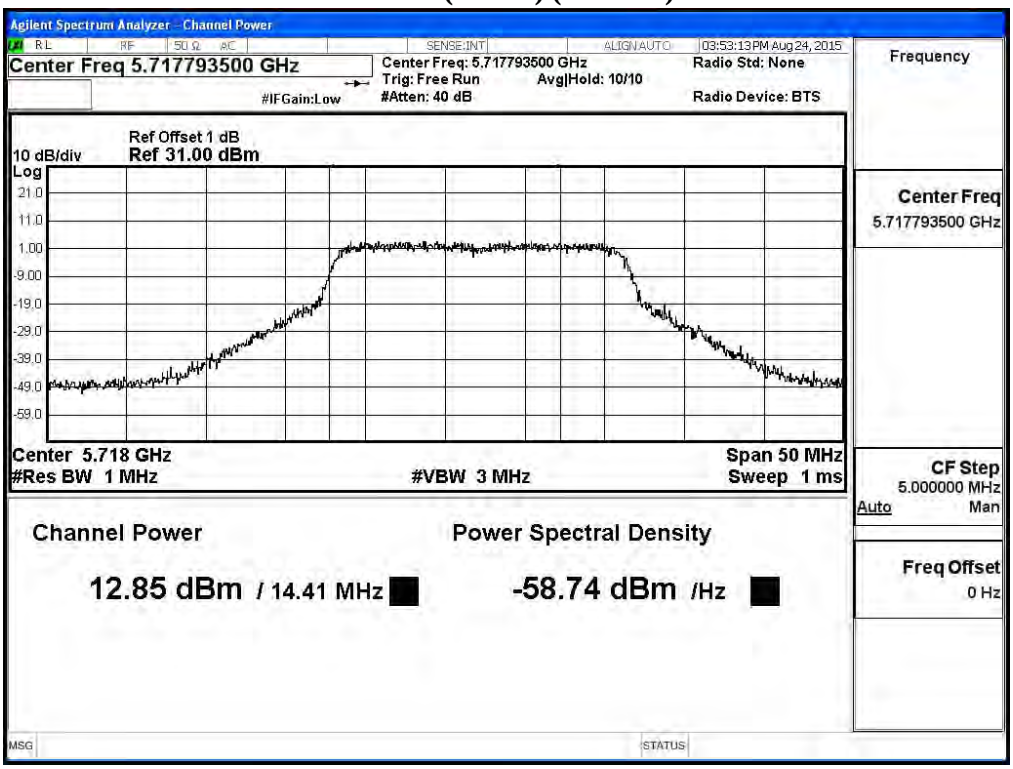


Channel 144: Chain B

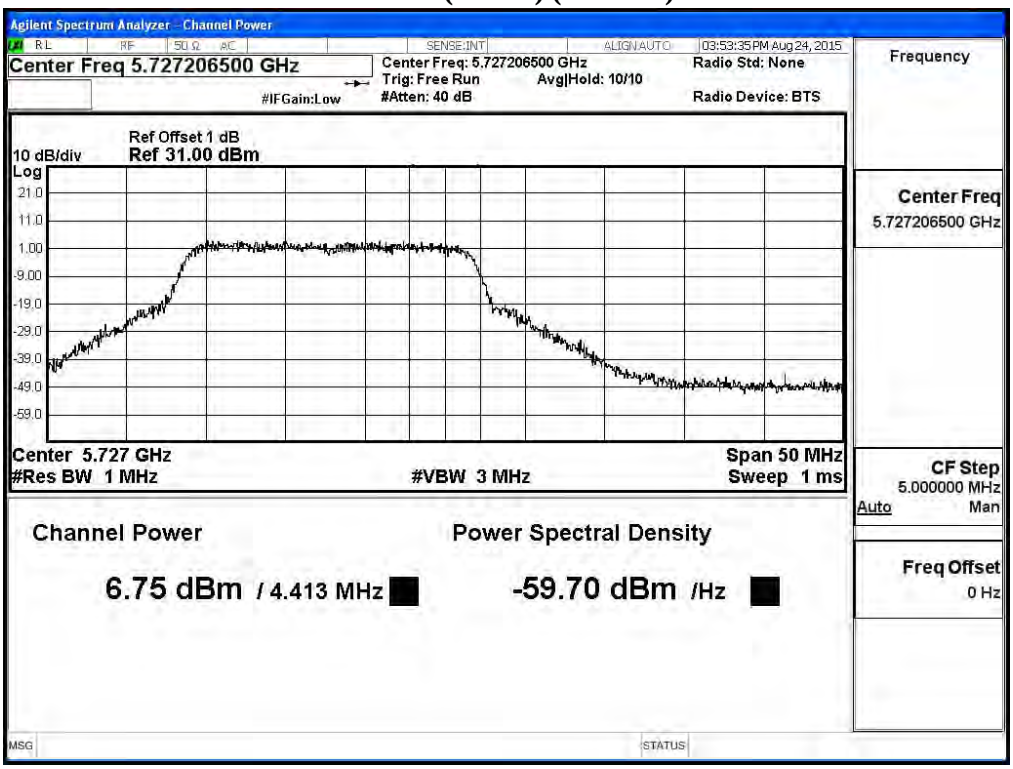


Maximum conducted output power:

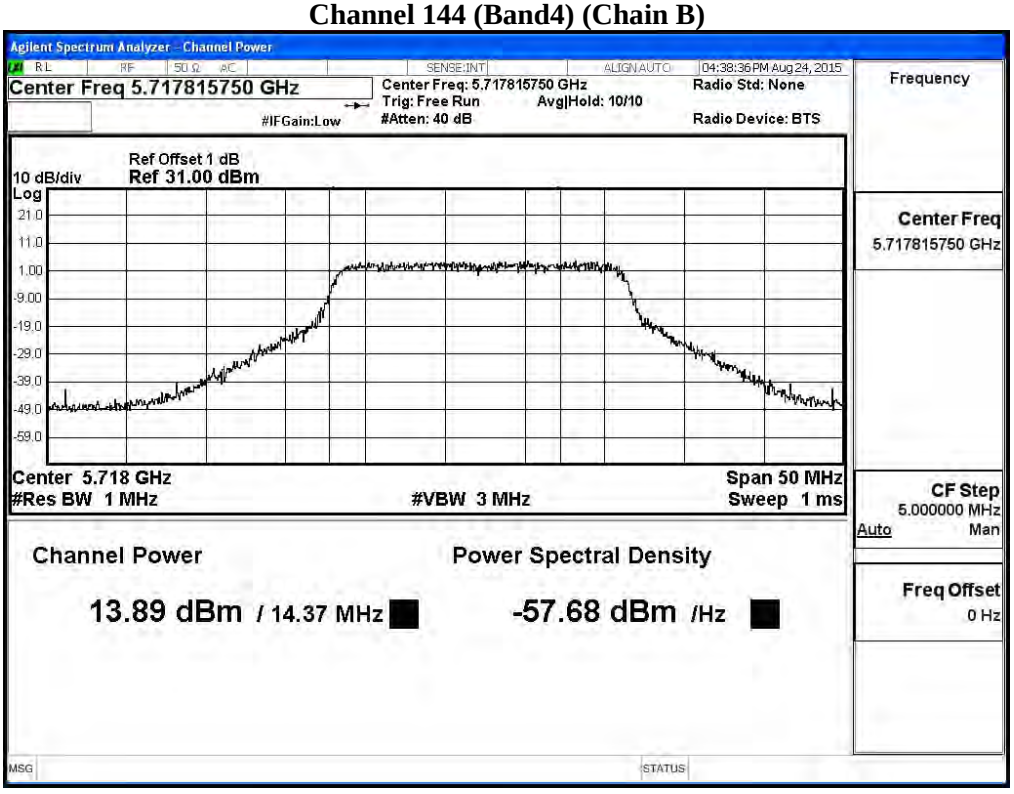
Channel 144 (Band3) (Chain A)



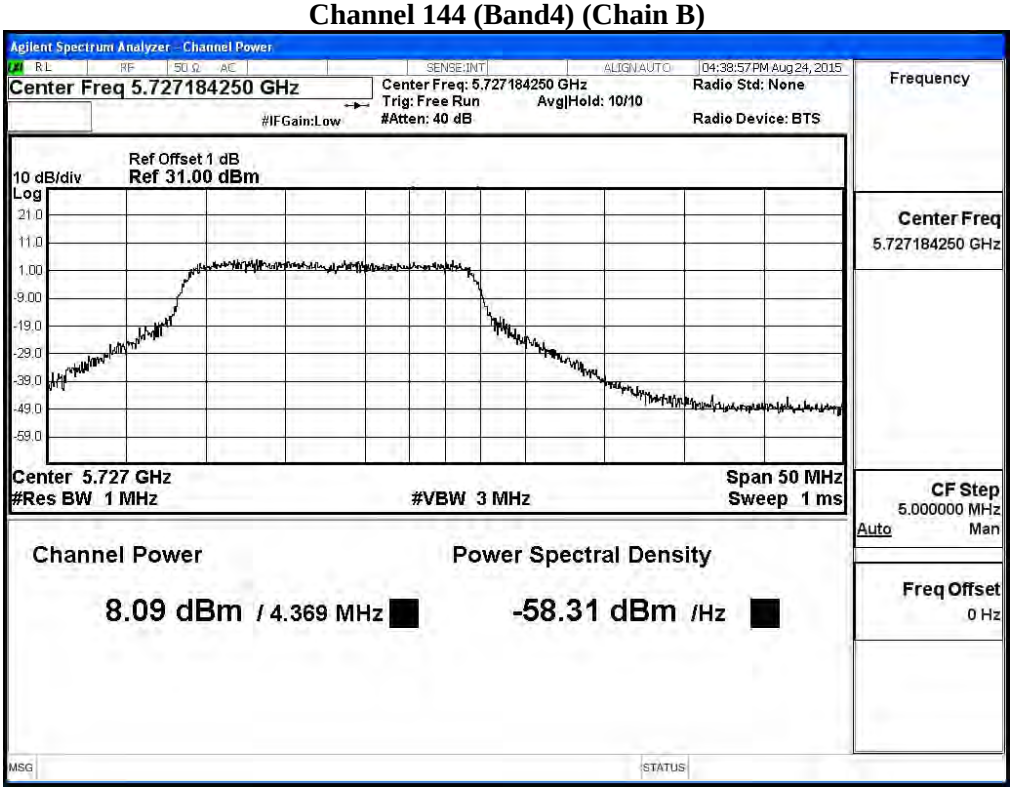
Channel 144 (Band3) (Chain A)



Channel 144 (Band4) (Chain B)



Channel 144 (Band4) (Chain B)



Product : 802.11 ac PCIe Module
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 17: Transmit (802.11ac-40BW-30Mbps)(Omni Antenna)

Chain A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8
		Measurement Level (dBm)								
142F(Band3)	5710	13.92	13.84	13.76	13.69	13.61	13.53	13.44	13.35	13.23
142F(Band4)	5710	2.67	2.56	2.34	2.26	2.19	2.12	2.05	1.99	1.94

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8
		Measurement Level (dBm)								
142F(Band3)	5710	14.62	14.54	14.45	14.36	14.25	14.17	14.08	14	13.92
142F(Band4)	5710	4.32	4.24	4.16	4.04	3.91	3.83	3.74	3.62	3.59

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement (High power):

CHAIN A+B

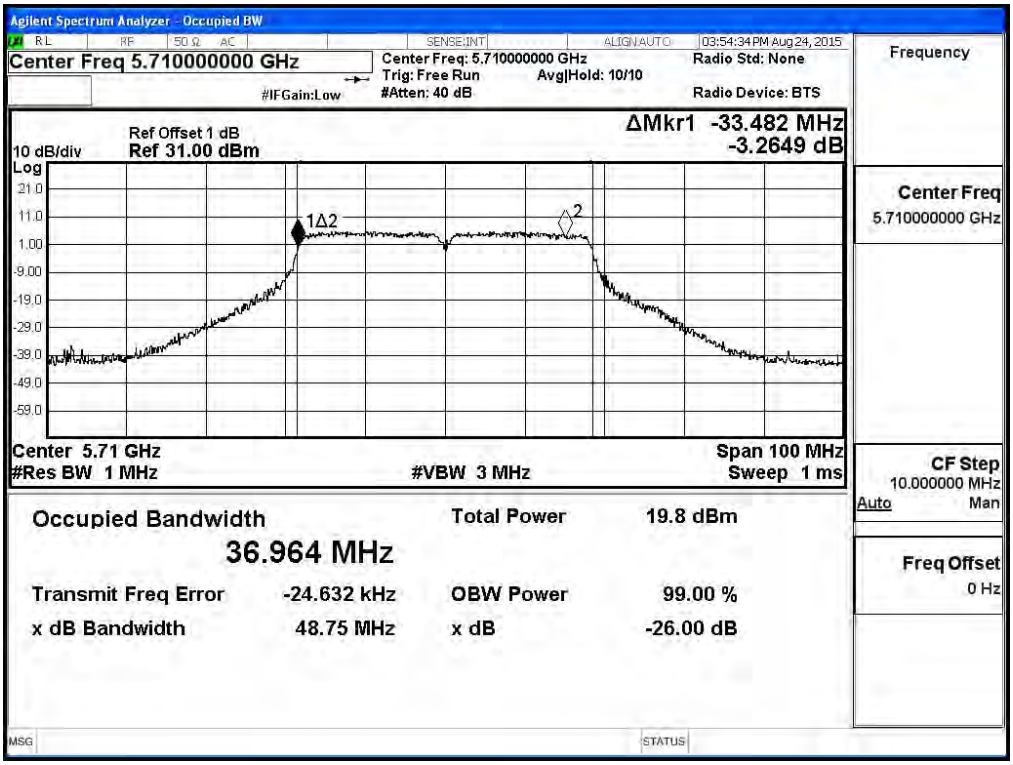
Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit		Result
						(dBm)	dBm+10log(BW)	
142F(Band3)	5710	33.451	13.92	14.62	17.29	20	26.24	Pass
142F(Band4)	5710	3.451	2.67	4.32	6.58	30	16.38	Pass

Note:

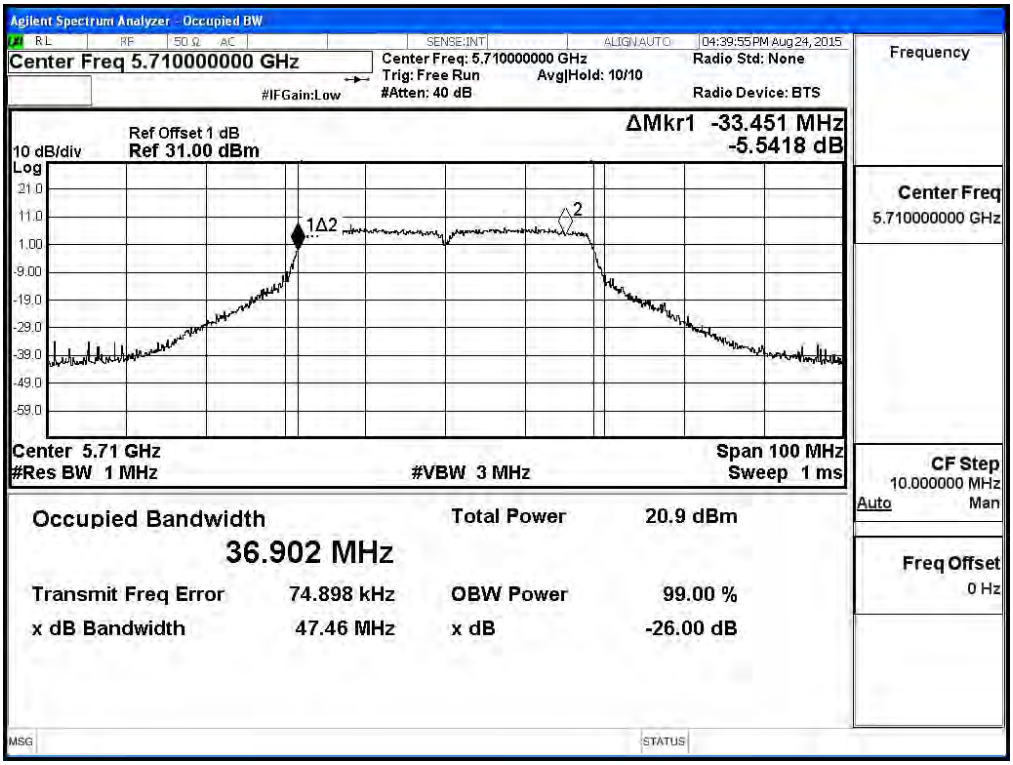
1. Power Output Value =Reading value on average power meter + cable loss.
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)).
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

Channel 142: Chain A

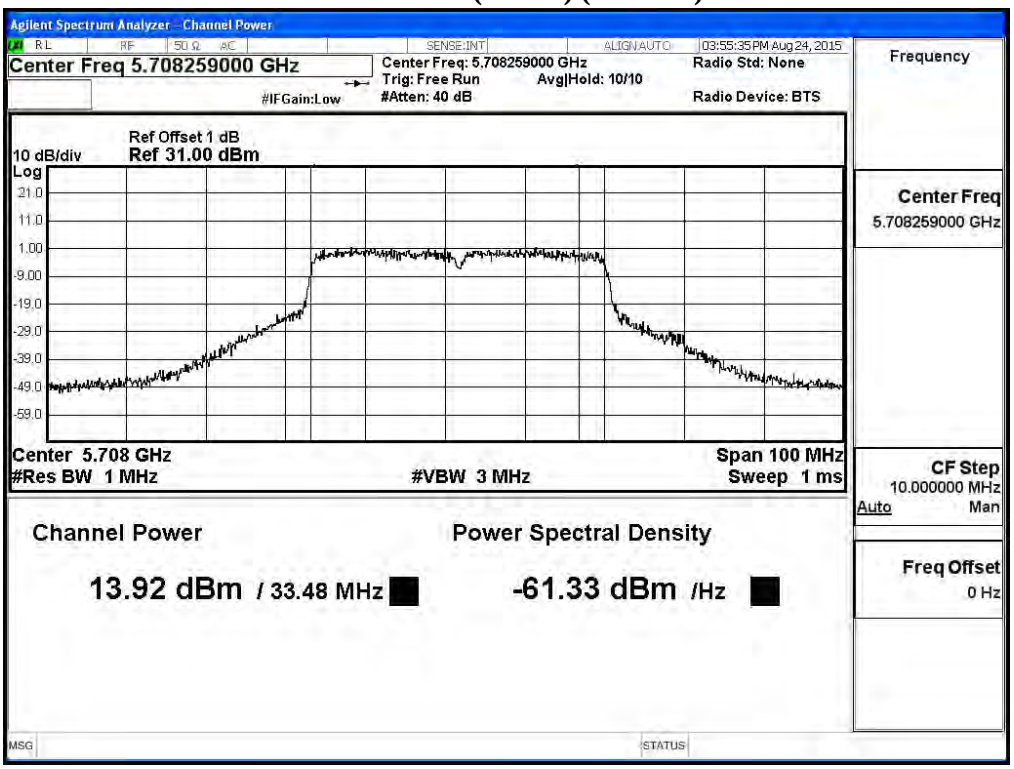


Channel 142: Chain B

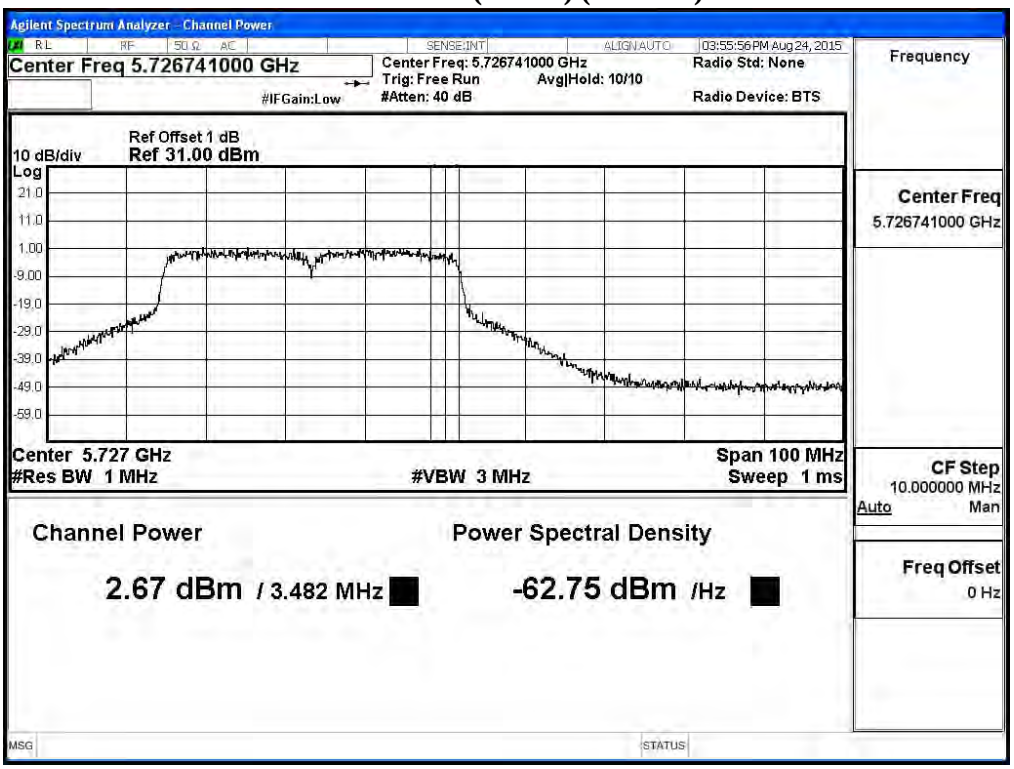


Maximum conducted output power:

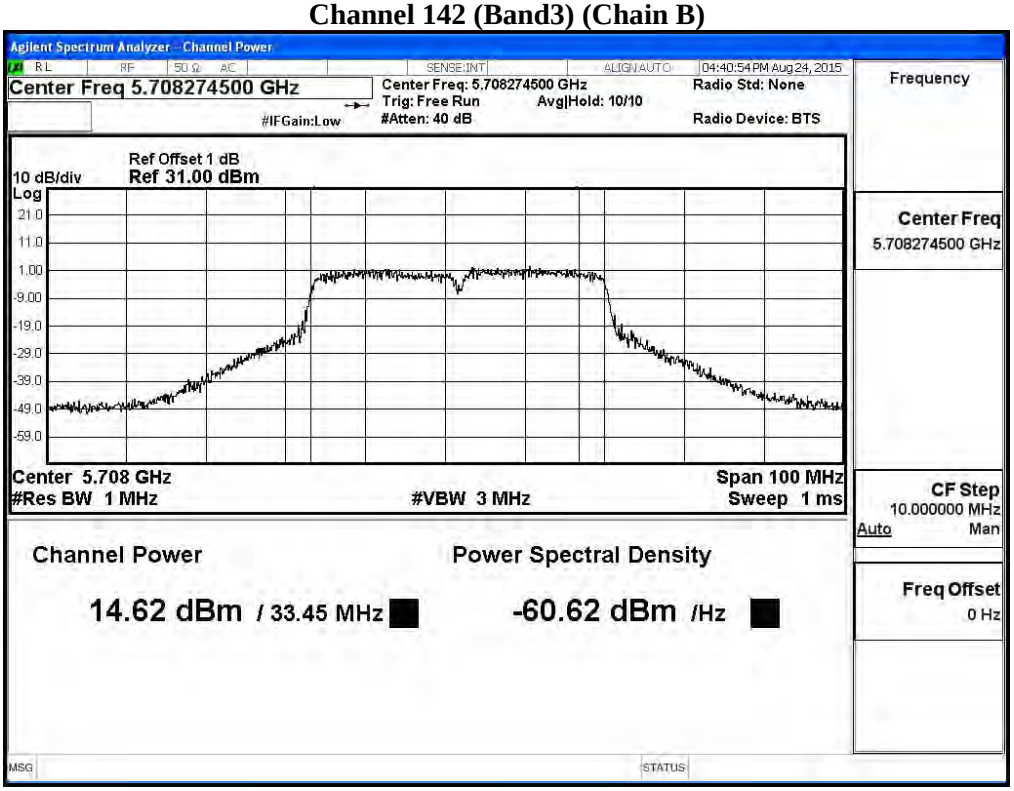
Channel 142 (Band3) (Chain A)



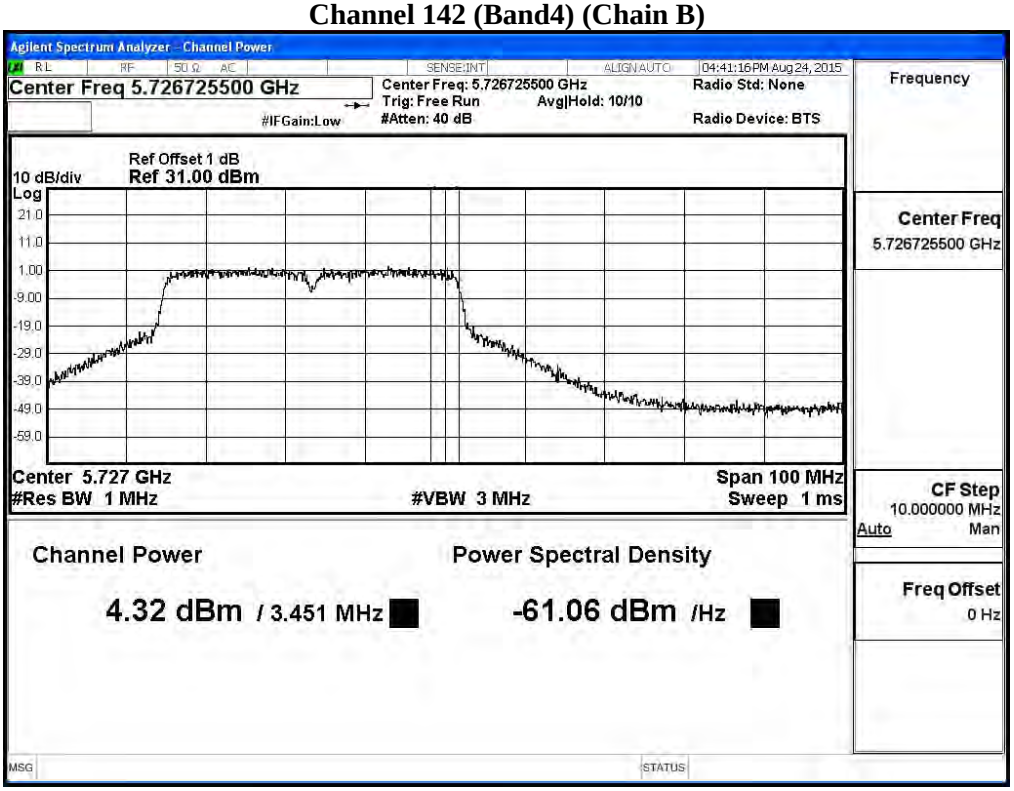
Channel 142 (Band4) (Chain A)



Channel 142 (Band3) (Chain B)



Channel 142 (Band4) (Chain B)



Product : 802.11 ac PCIe Module
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 18: Transmit (802.11ac-80BW-65Mbps)(Omni Antenna)

Chain A

Cable loss=1dB		Maximum conducted output power									
Channel No	Frequency (MHz)	Data Rate (Mbps)									
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9
58	5290	6.74	6.66	6.59	6.52	6.39	6.33	6.21	6.13	6.02	5.95
106	5530	5.6	5.51	5.44	5.34	5.26	5.21	5.1	5.02	4.93	4.84
122	5610	16.65	16.57	16.45	16.36	16.28	16.24	16.13	15.99	15.93	15.82
138(Band3)	5690	16.28	16.21	16.12	16.06	15.96	15.89	15.81	15.69	15.61	15.5
138(Band4)	5690	1.06	0.67	0.6	0.51	0.43	0.26	0.16	0.1	0.04	-0.02

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1dB		Maximum conducted output power									
Channel No	Frequency (MHz)	Data Rate (Mbps)									
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9
58	5290	5.42	5.34	5.26	5.17	5.08	5	4.93	4.86	4.75	4.68
106	5530	0.53	0.45	0.38	0.28	0.19	0.11	0.07	-0.1	-0.16	-0.23
122	5610	17.02	16.94	16.82	16.73	16.65	16.61	16.5	16.36	16.3	16.19
138(Band3)	5690	16.65	16.57	16.5	16.39	16.3	16.24	16.16	16.1	15.98	15.89
138(Band4)	5690	1.32	0.73	0.64	0.57	0.48	0.39	0.31	0.24	0.12	0.01

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:
CHAIN A+B

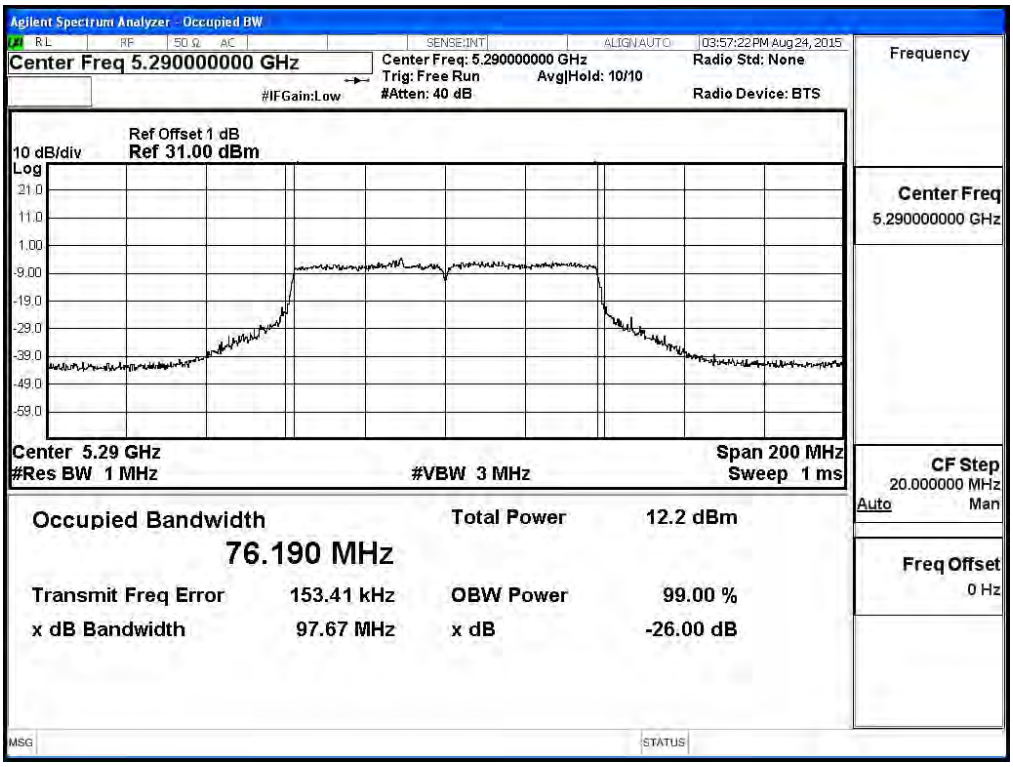
Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit		Result
						(dBm)	dBm+10log(BW)	
58	5290	76.190	6.74	5.42	9.14	20	29.82	Pass
106	5530	75.972	5.60	0.53	6.78	20	29.81	Pass
122	5610	75.894	16.65	17.02	19.85	20	29.80	Pass
138(Band3)	5690	72.997	16.28	16.65	19.48	20	29.63	Pass
138(Band4)	5690	2.996	1.06	1.32	4.20	30	21.77	Pass

Note:

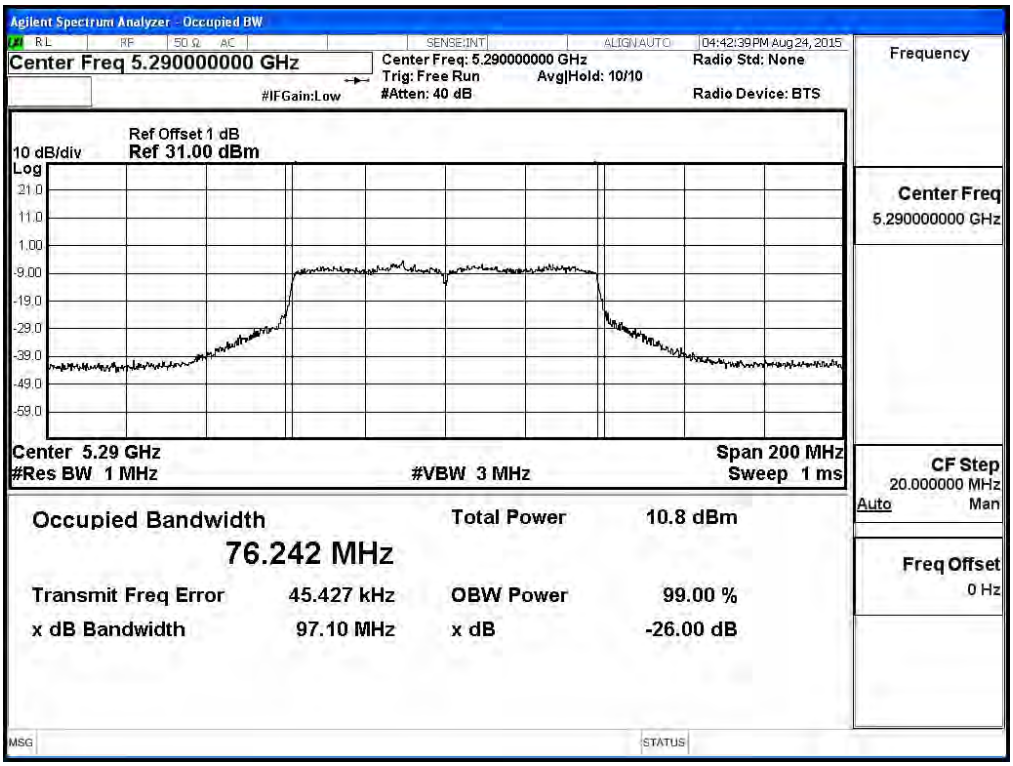
1. Power Output Value =Reading value on average power meter + cable loss.
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)).
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

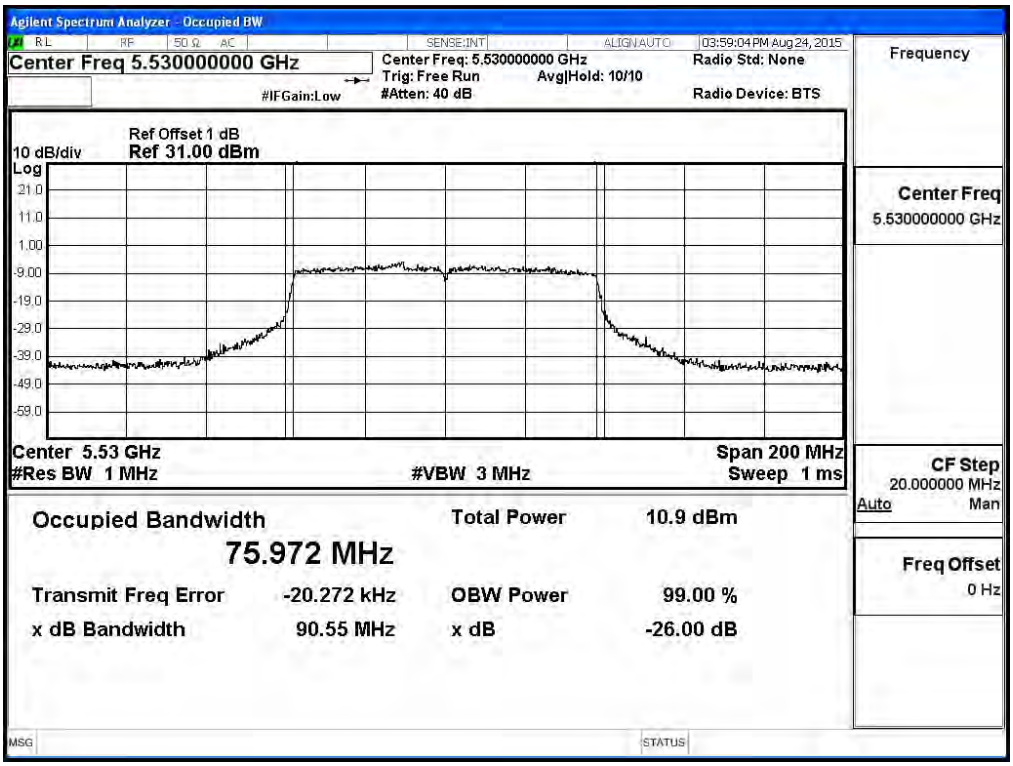
Channel 58: Chain A



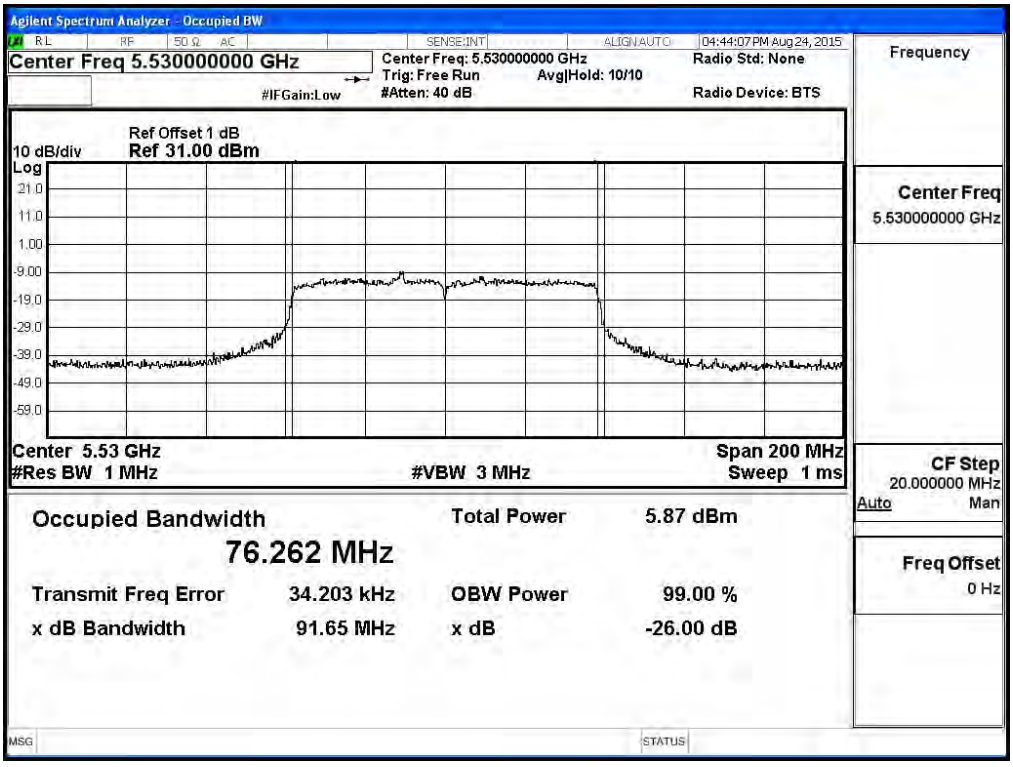
Channel 58: Chain B



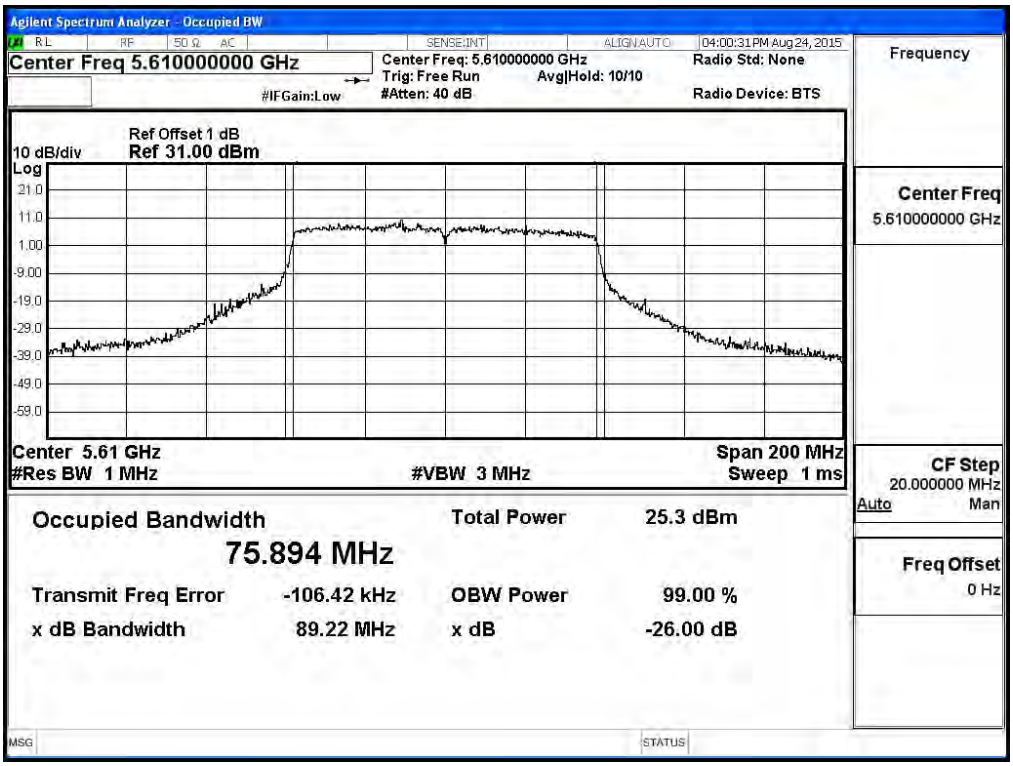
Channel 106: Chain A



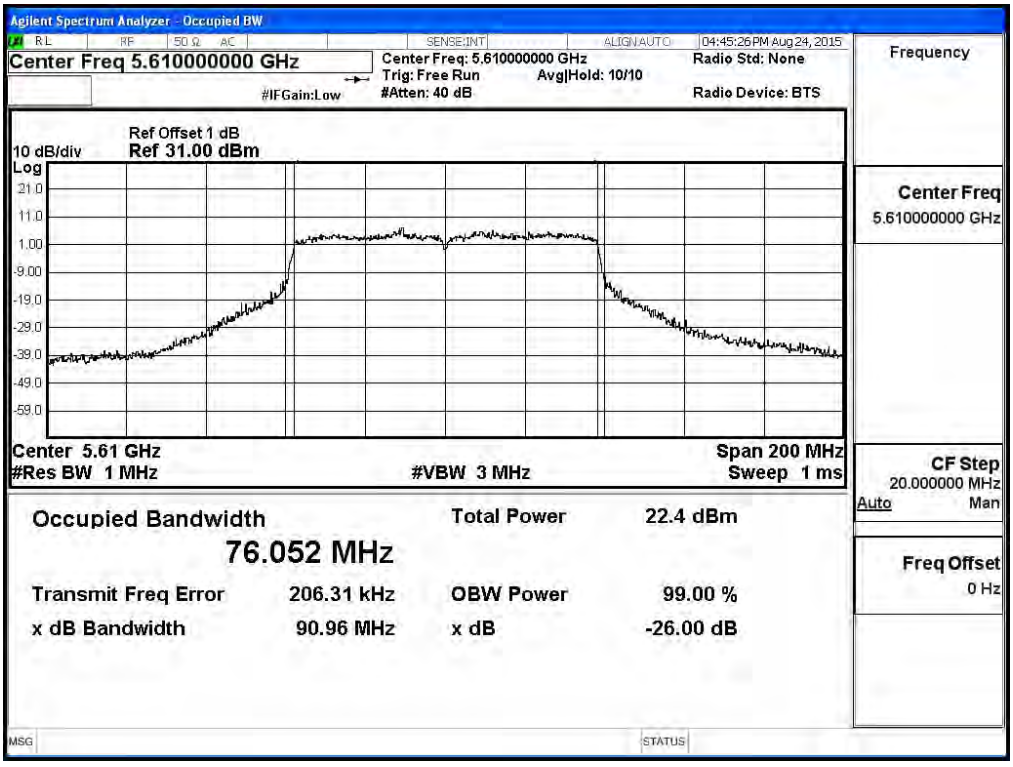
Channel 106: Chain B



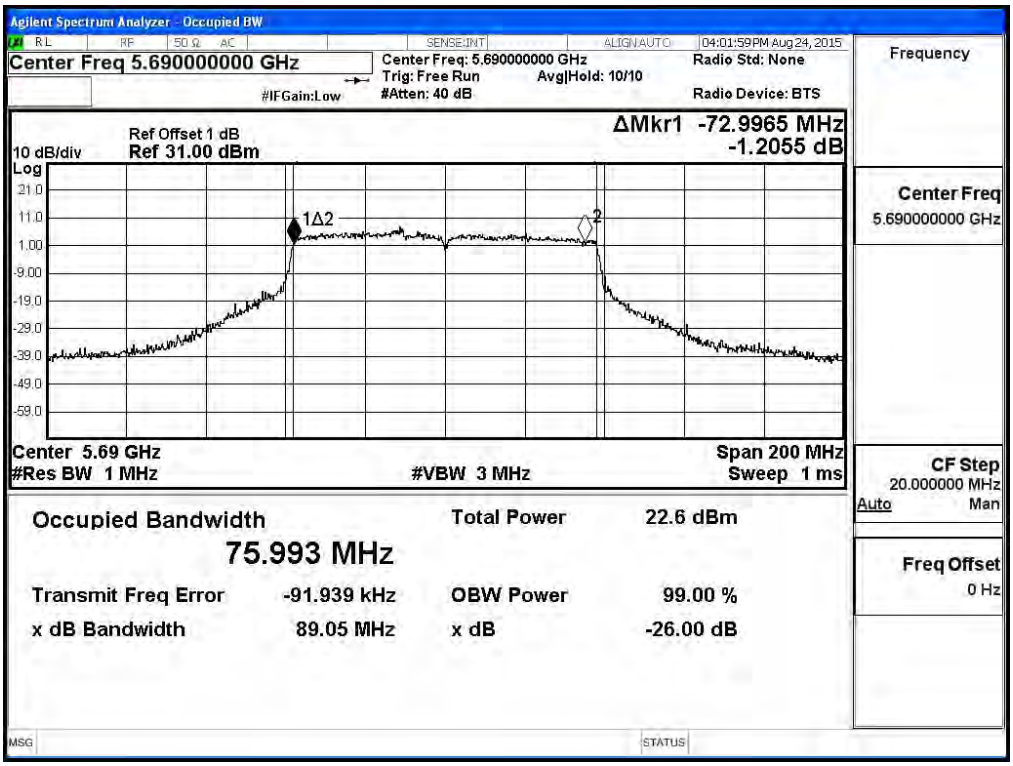
Channel 122: Chain A



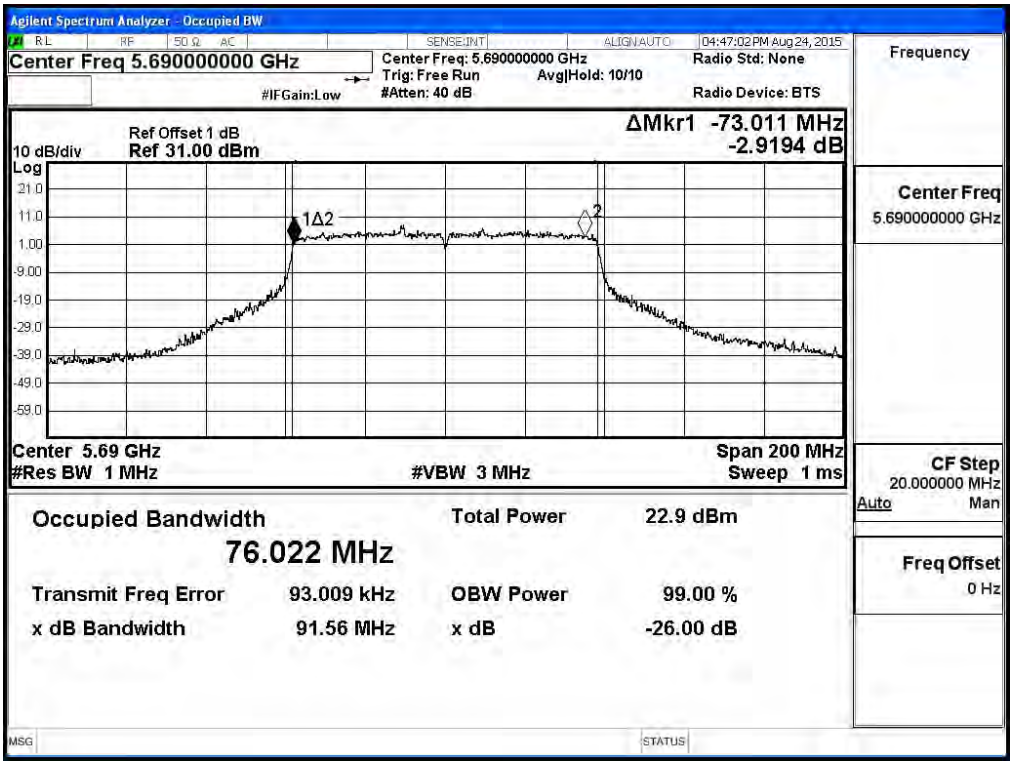
Channel 122: Chain B



Channel 138: Chain A

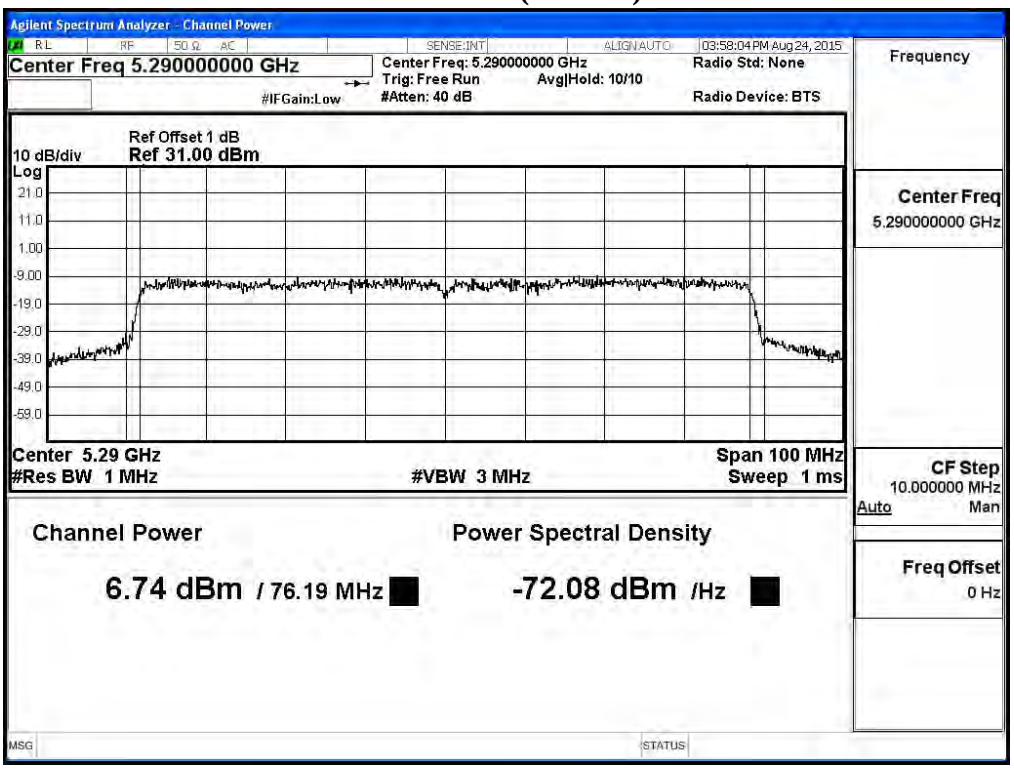


Channel 138: Chain B

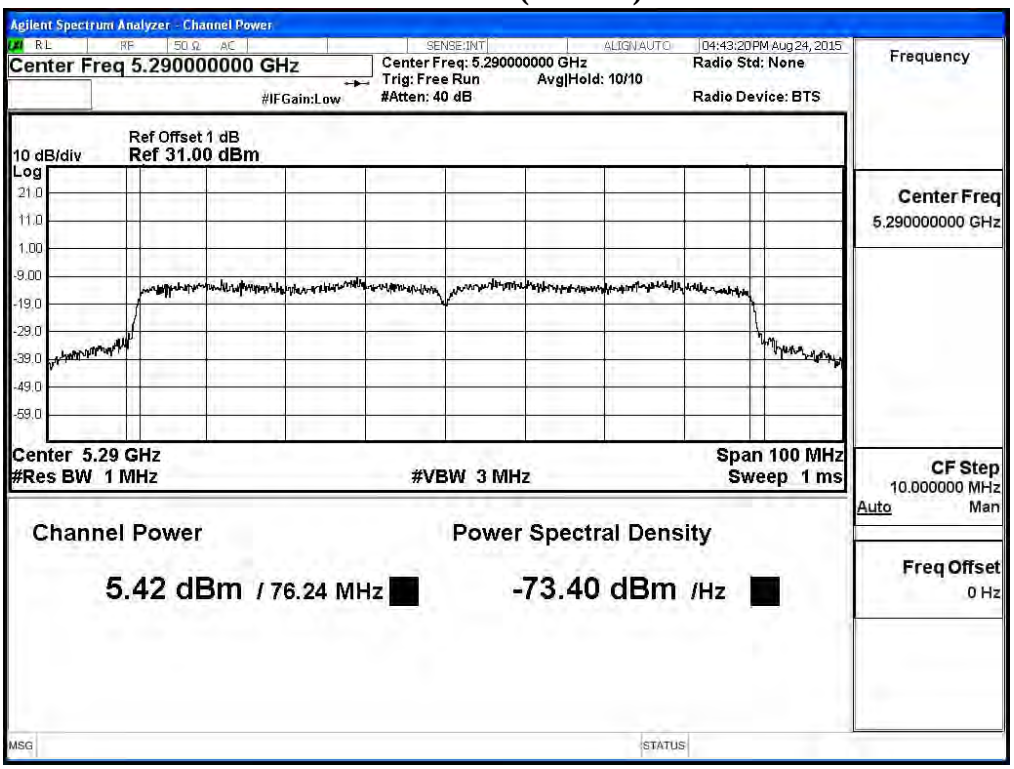


Maximum conducted output power:

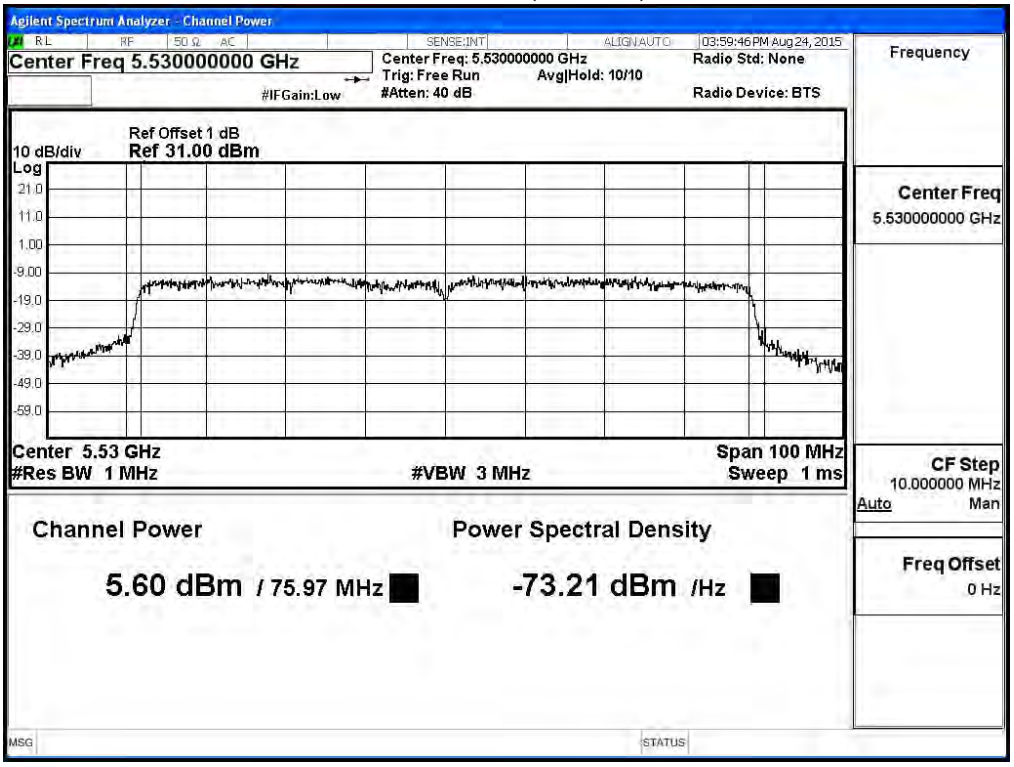
Channel 58 (Chain A)



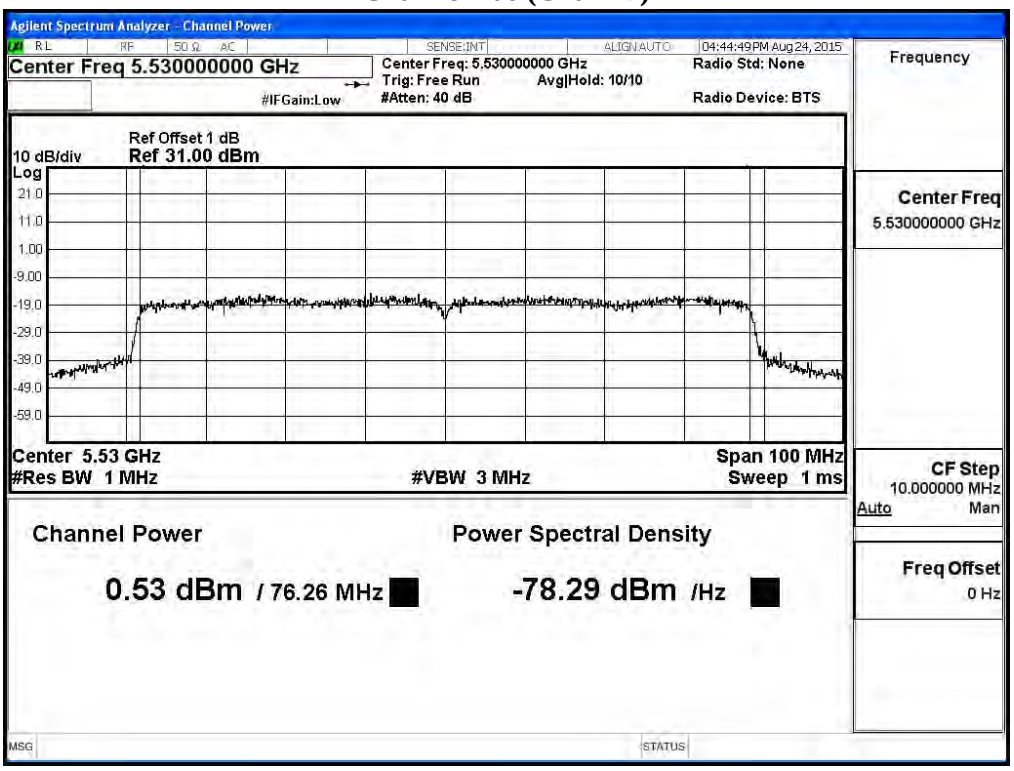
Channel 58 (Chain B)



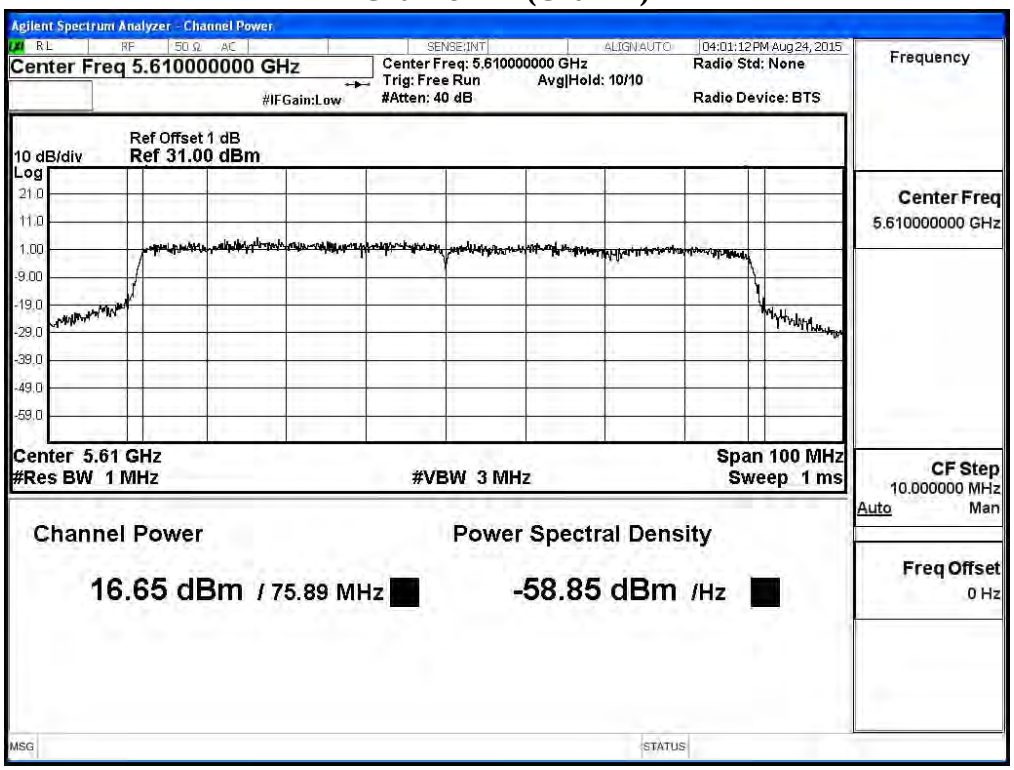
Channel 106 (Chain A)



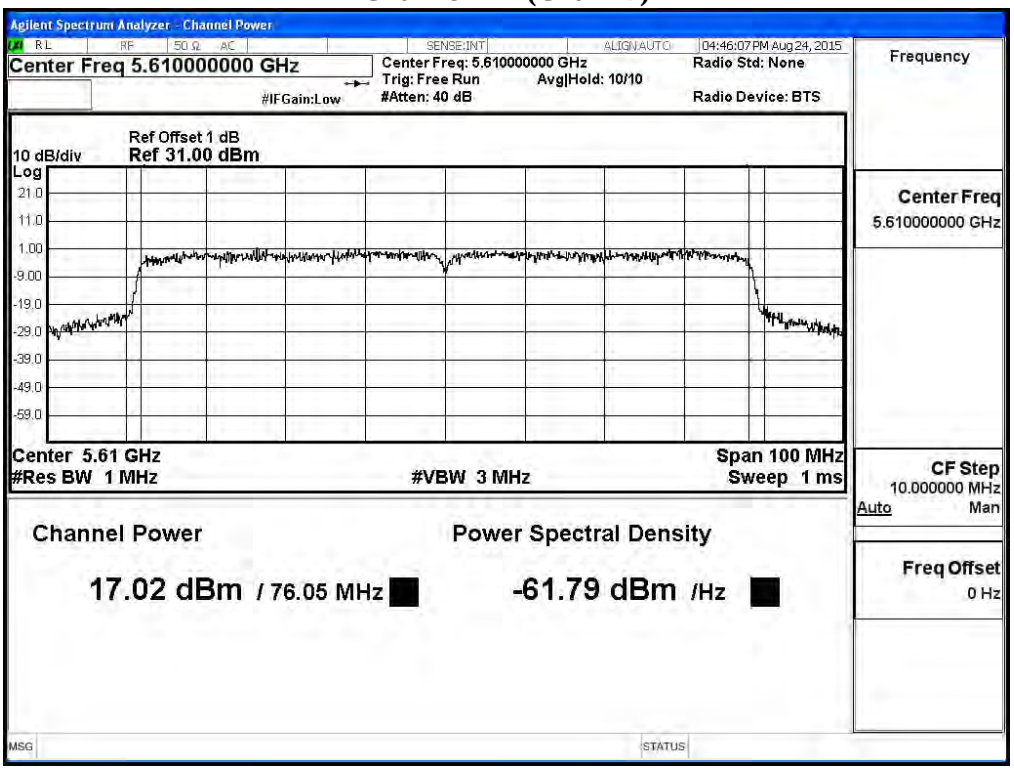
Channel 106 (Chain B)



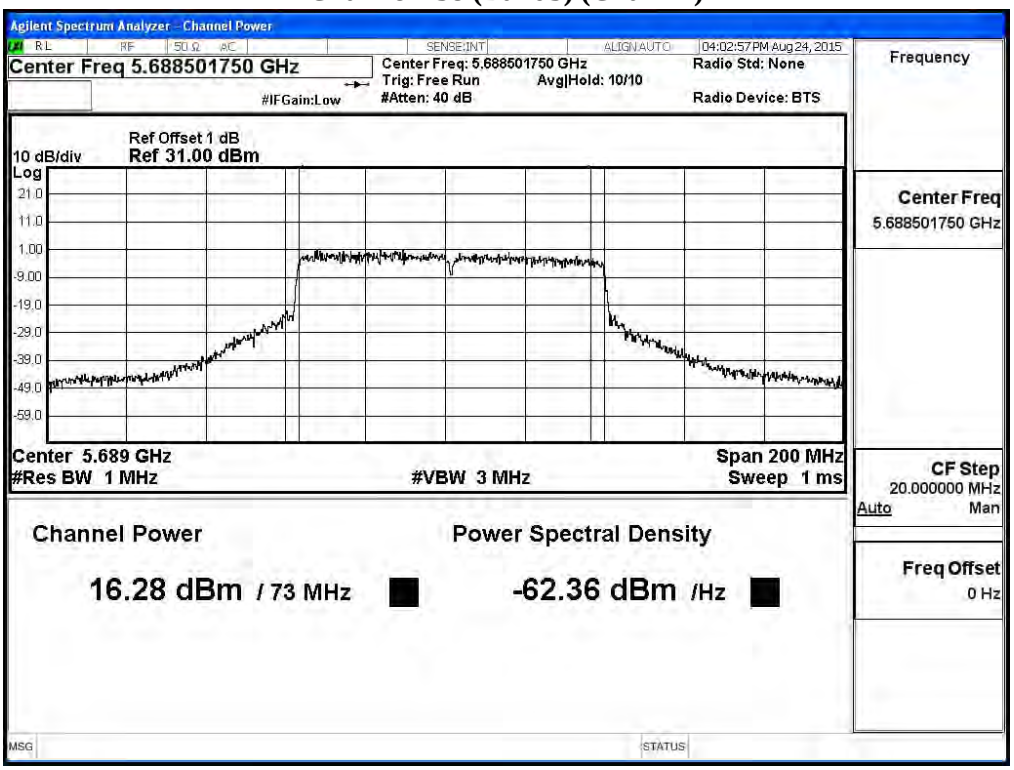
Channel 122 (Chain A)



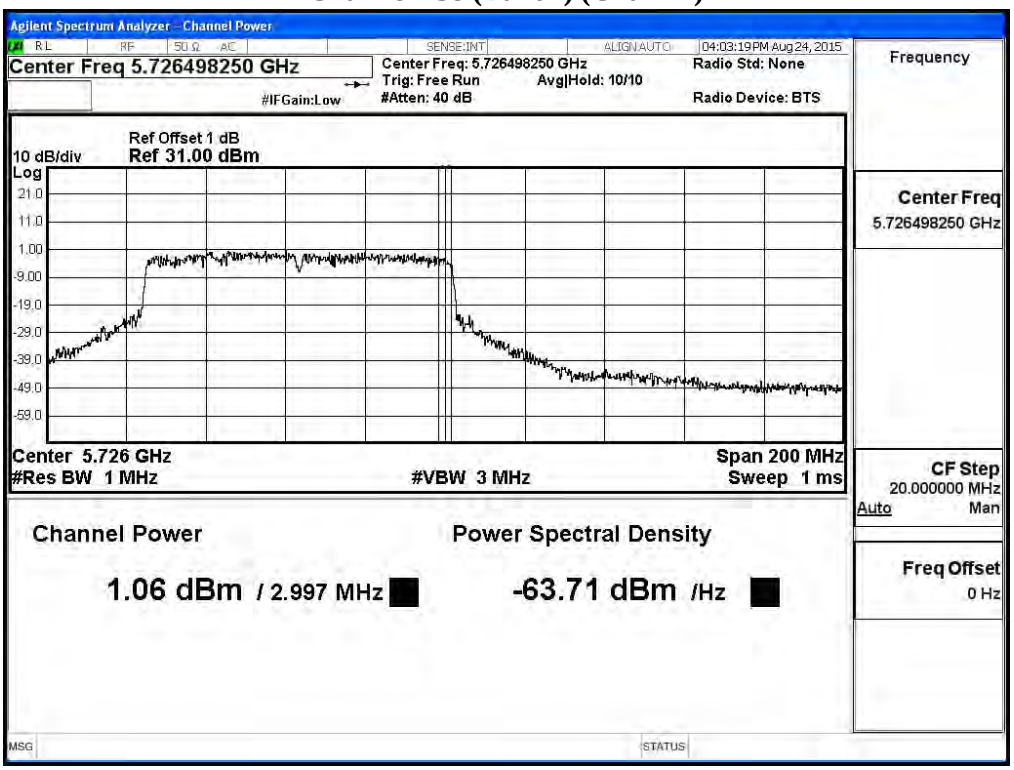
Channel 122 (Chain B)



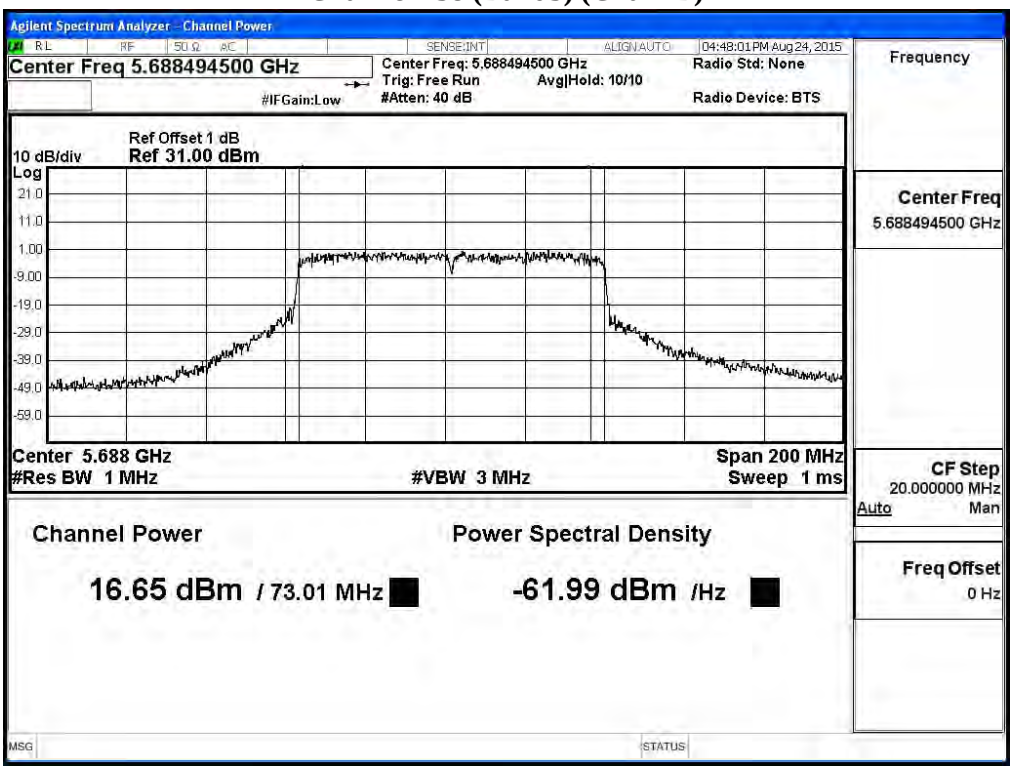
Channel 138 (Band3) (Chain A)



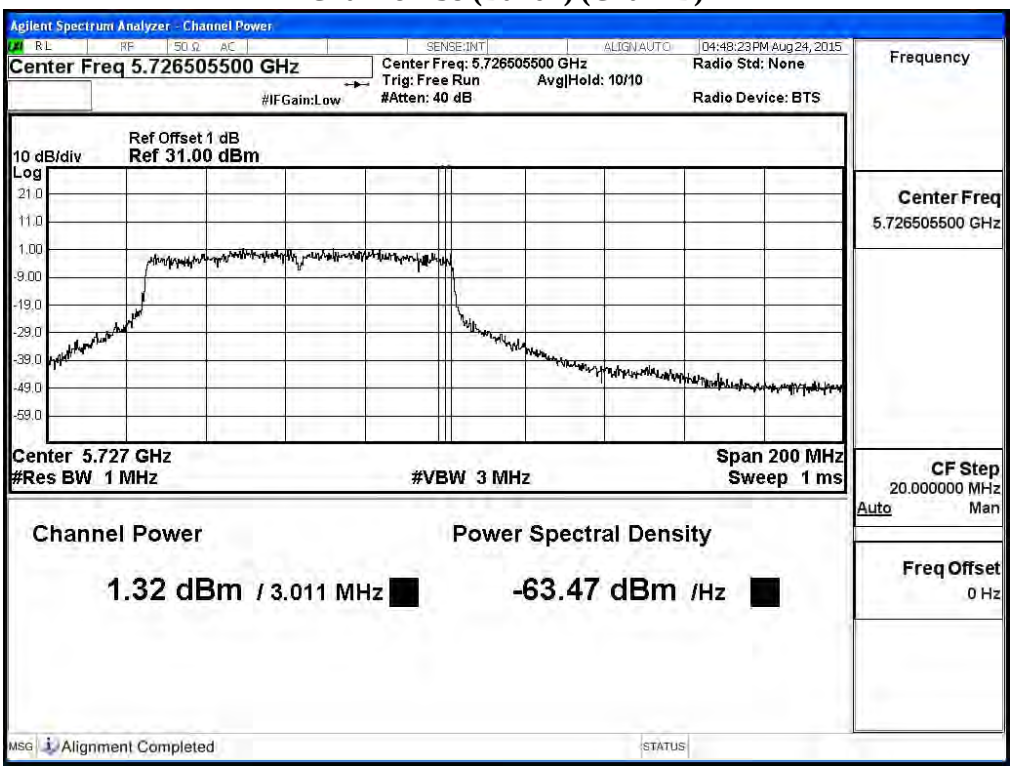
Channel 138 (Band4) (Chain A)



Channel 138 (Band3) (Chain B)



Channel 138 (Band4) (Chain B)



Product : 802.11 ac PCIe Module
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 19: Transmit (802.11a-6Mbps)(Panel Antenna)

CHAIN A

Cable loss=1dB		Maximum conducted output power							
Channel No.	Frequency (MHz)	Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
		Measurement Level (dBm)							
52	5260	-7.46	-7.63	-7.81	-7.95	-8.13	-8.21	-8.28	-8.32
60	5300	-7.57	--	--	--	--	--	--	--
64	5320	-8.24	--	--	--	--	--	--	--
100	5500	-5.47	--	--	--	--	--	--	--
116	5580	-4.81	-4.92	-5.03	-5.12	-5.24	-5.37	-5.49	-5.6
140	5700	-7.29	--	--	--	--	--	--	--

Note: 1.Maximum conducted output power Value =Reading value on average power meter + cable loss

CHAIN B

Cable loss=1dB		Maximum conducted output power							
Channel No.	Frequency (MHz)	Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
		Measurement Level (dBm)							
52	5260	-8.02	-8.18	-8.29	-8.43	-8.49	-8.58	-8.72	-8.78
60	5300	-8.36	--	--	--	--	--	--	--
64	5320	-9.42	--	--	--	--	--	--	--
100	5500	-11.01	--	--	--	--	--	--	--
116	5580	-9.48	--	--	--	--	--	--	--
140	5700	-6.81	-6.93	-7.06	-7.15	-7.26	-7.4	-7.51	-7.63

Note: 1.Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power measurement:

CHAIN A+B

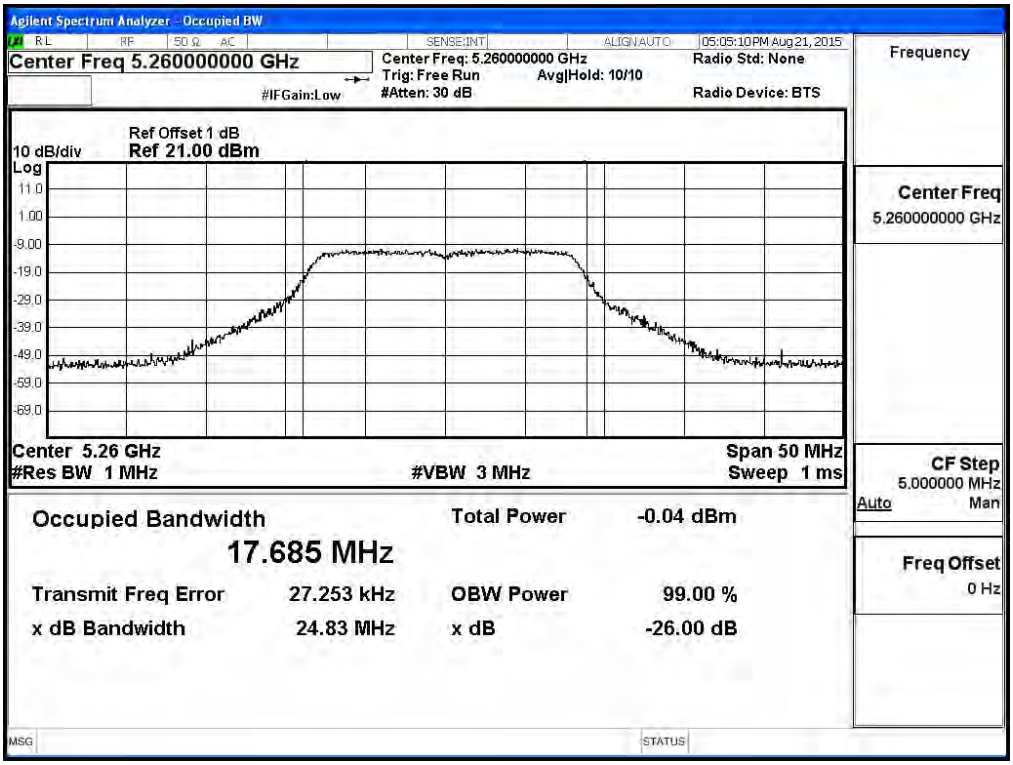
Channel Number	Frequency (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Total Power (dBm)	Output power Limit	
						(dBm)	dBm+10log(BW)
52	5260	17.566	-7.46	-8.02	-4.72	0	23.45
60	5300	17.620	-7.57	-8.36	-4.94	0	23.46
64	5320	17.550	-8.24	-9.42	-5.78	0	23.44
100	5500	17.622	-5.47	-11.01	-4.40	0	23.46
116	5580	17.617	-4.81	-9.48	-3.54	0	23.46
140	5700	17.560	-7.29	-6.81	-4.03	0	23.45

Note:

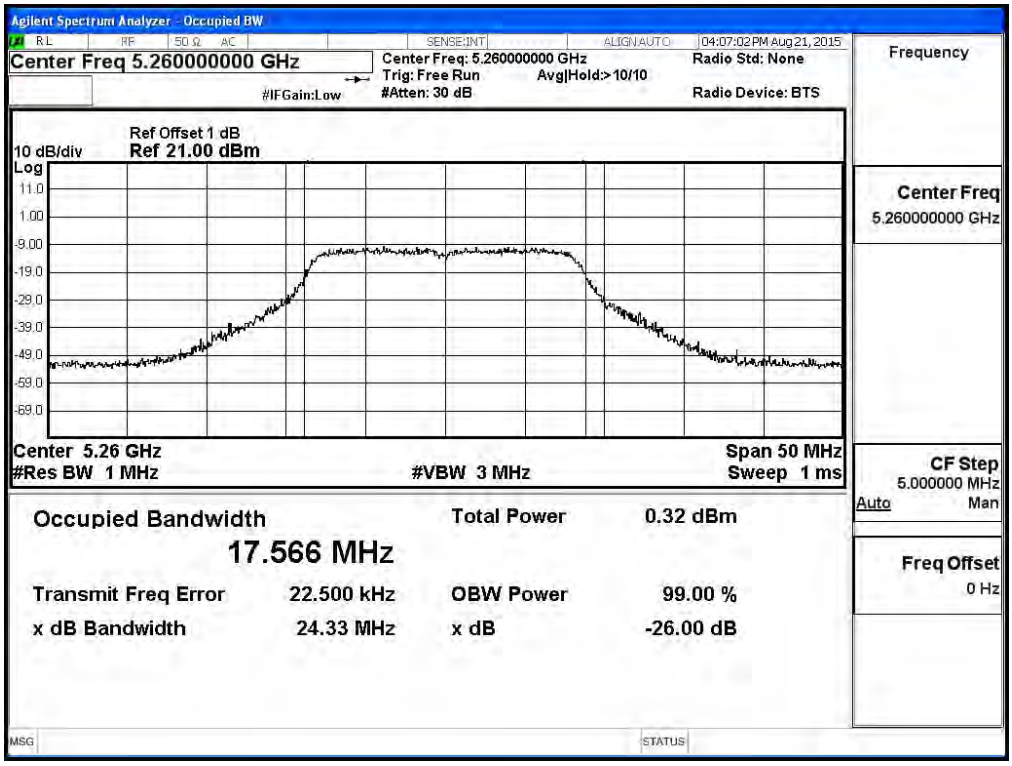
1. Power Output Value =Reading value on average power meter + cable loss.
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)).
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

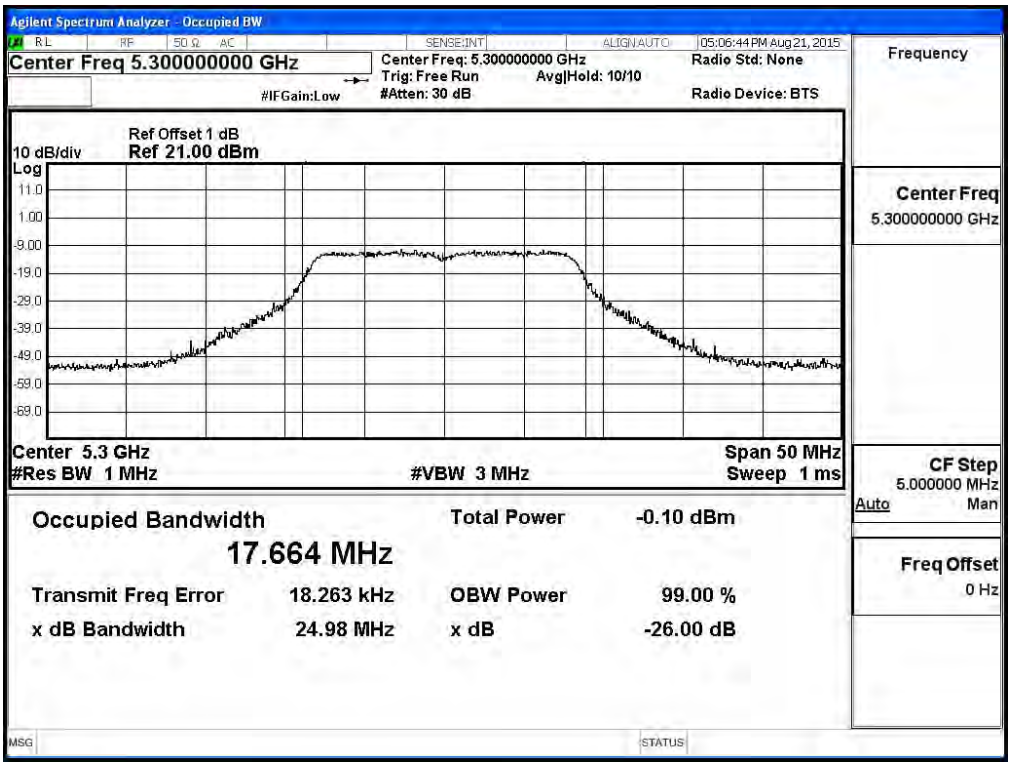
Channel 52: Chain A



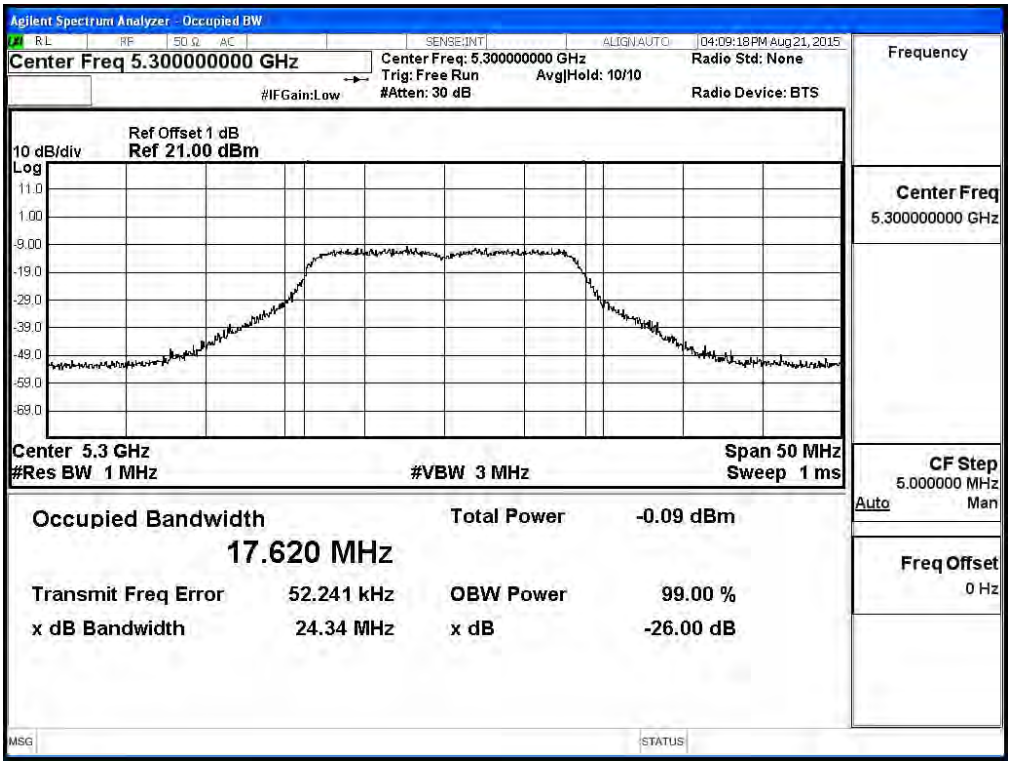
Channel 52: Chain B



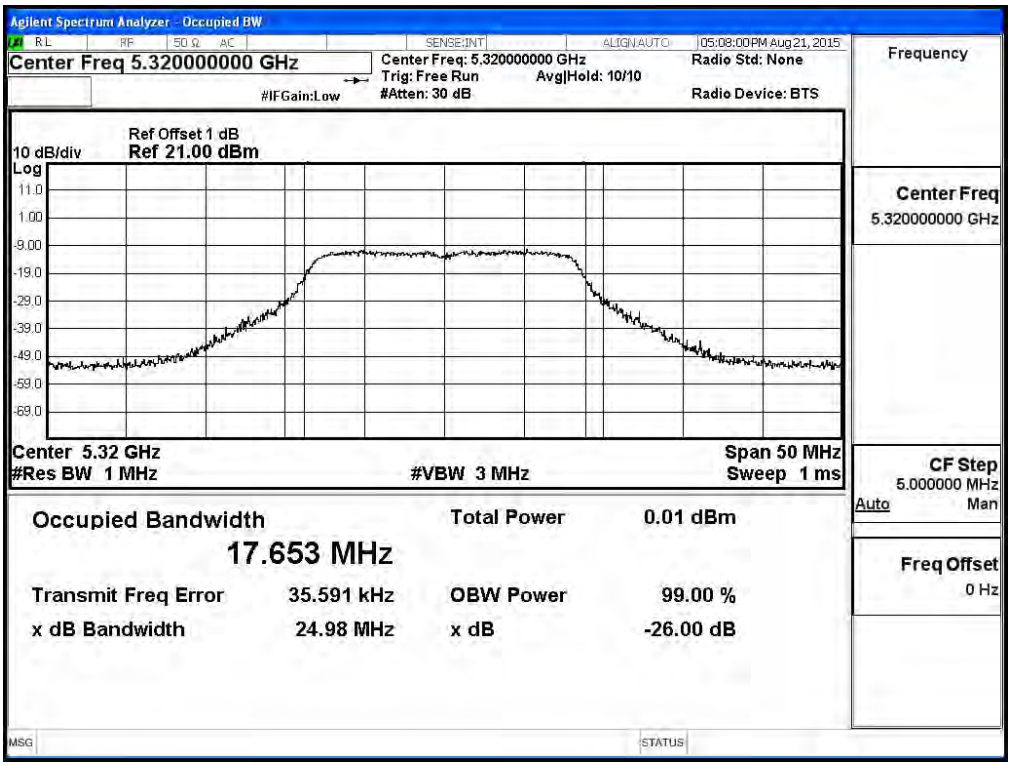
Channel 60: Chain A



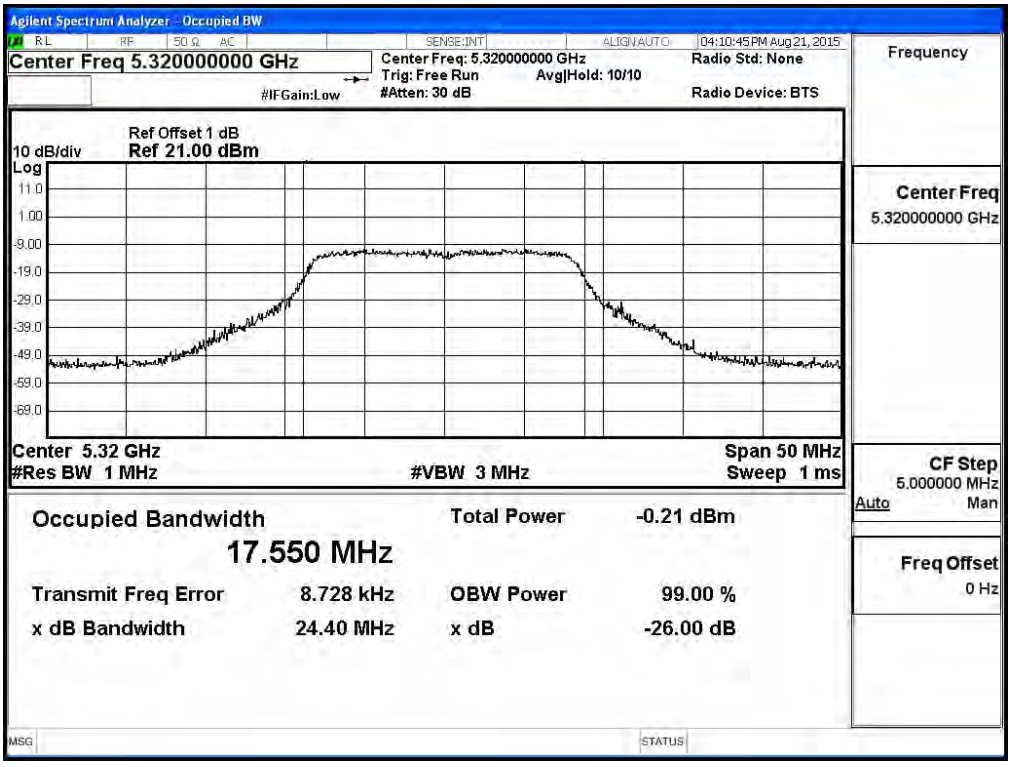
Channel 60: Chain B



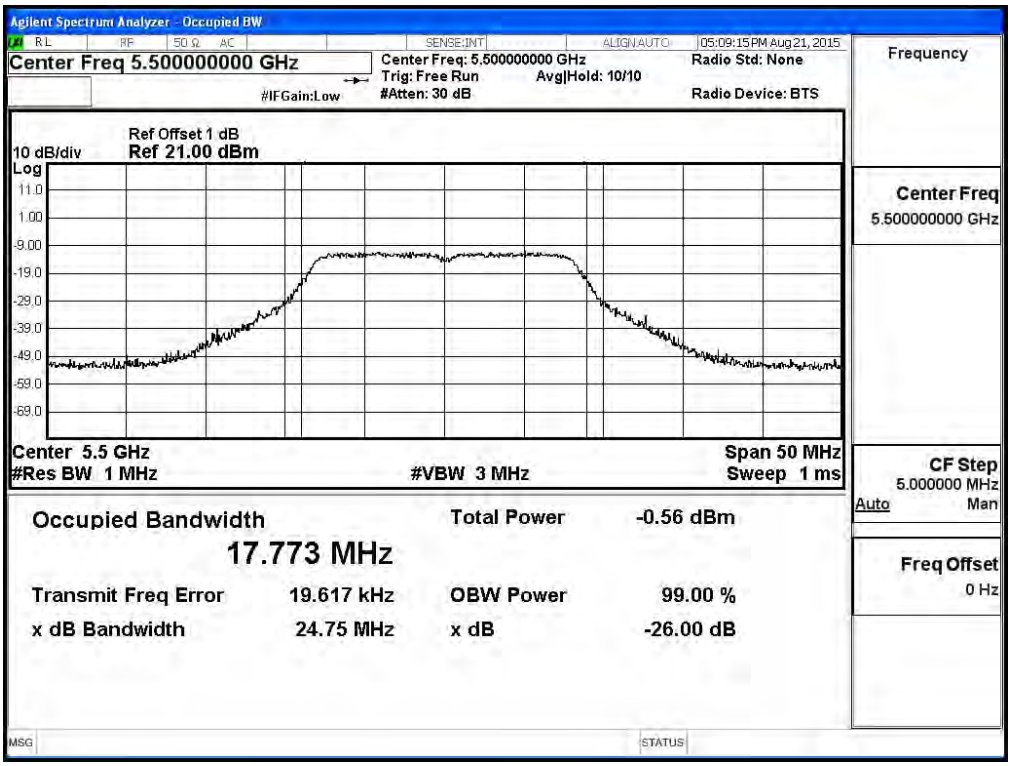
Channel 64: Chain A



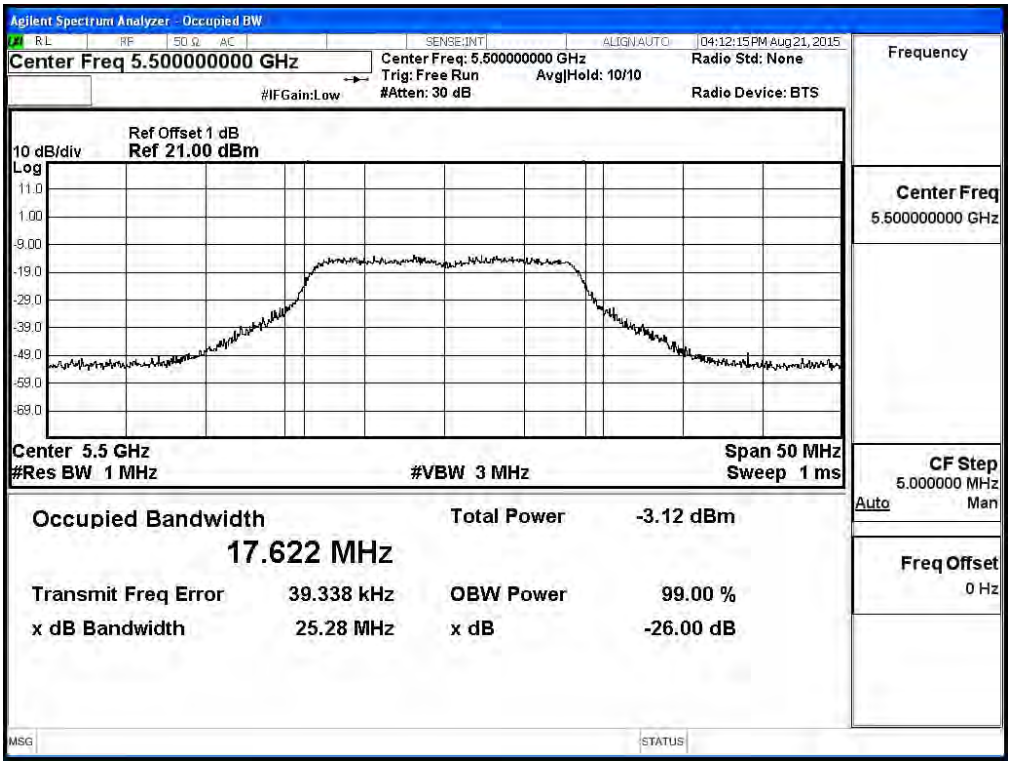
Channel 64: Chain B



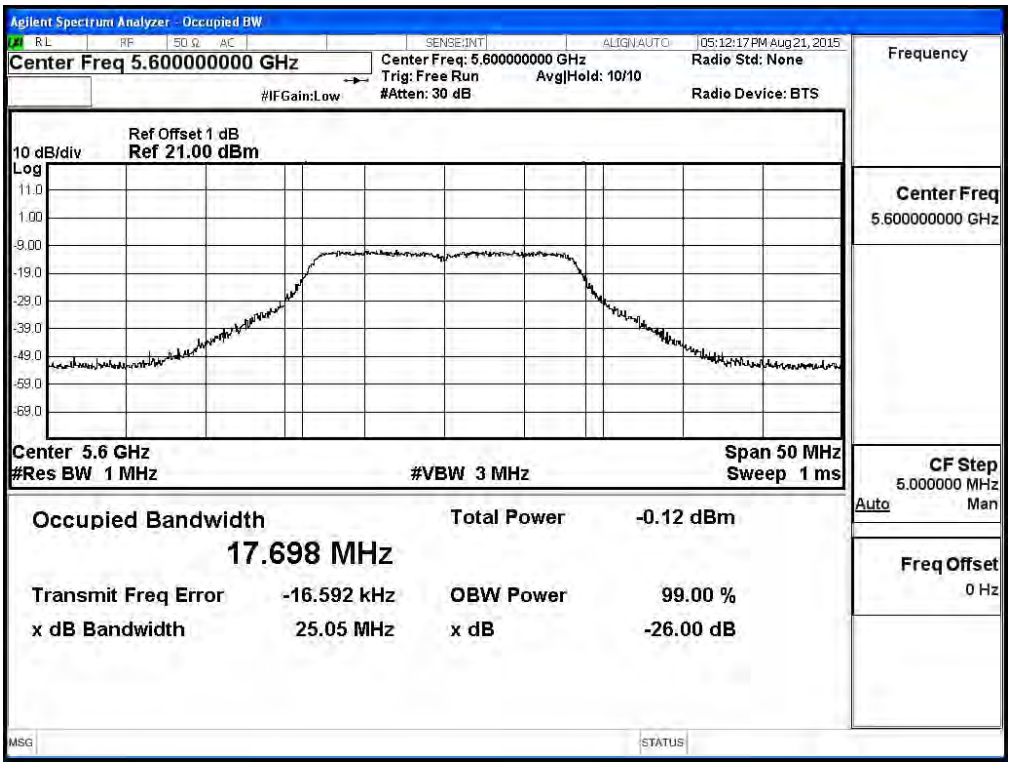
Channel 100: Chain A



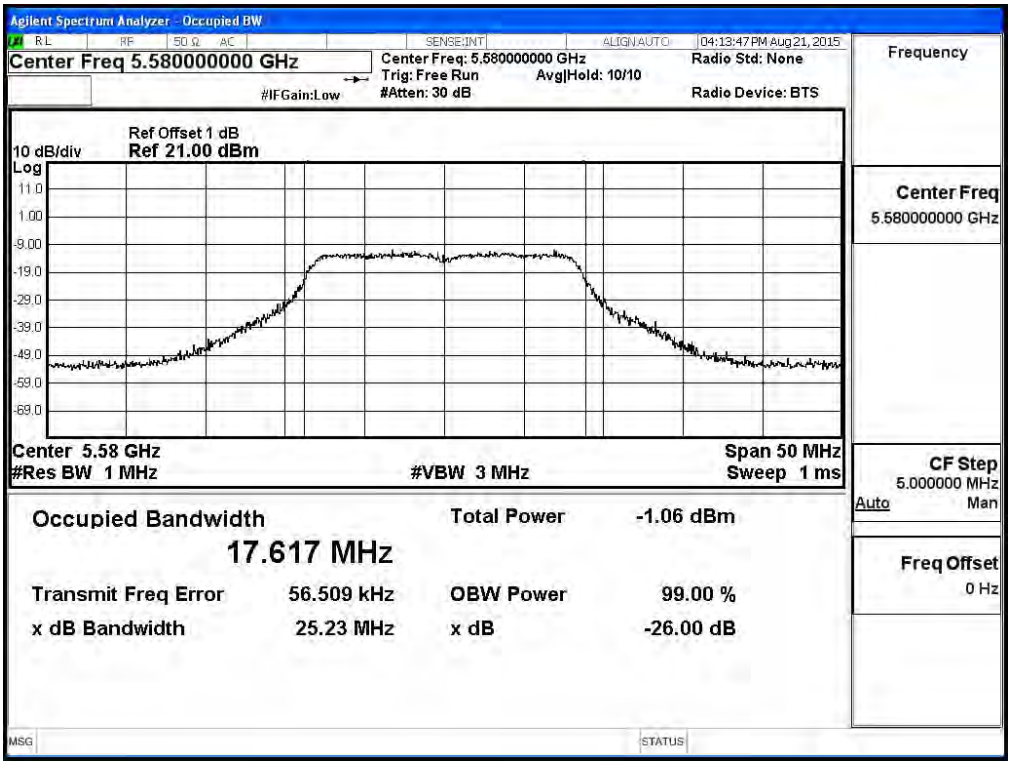
Channel 100: Chain B



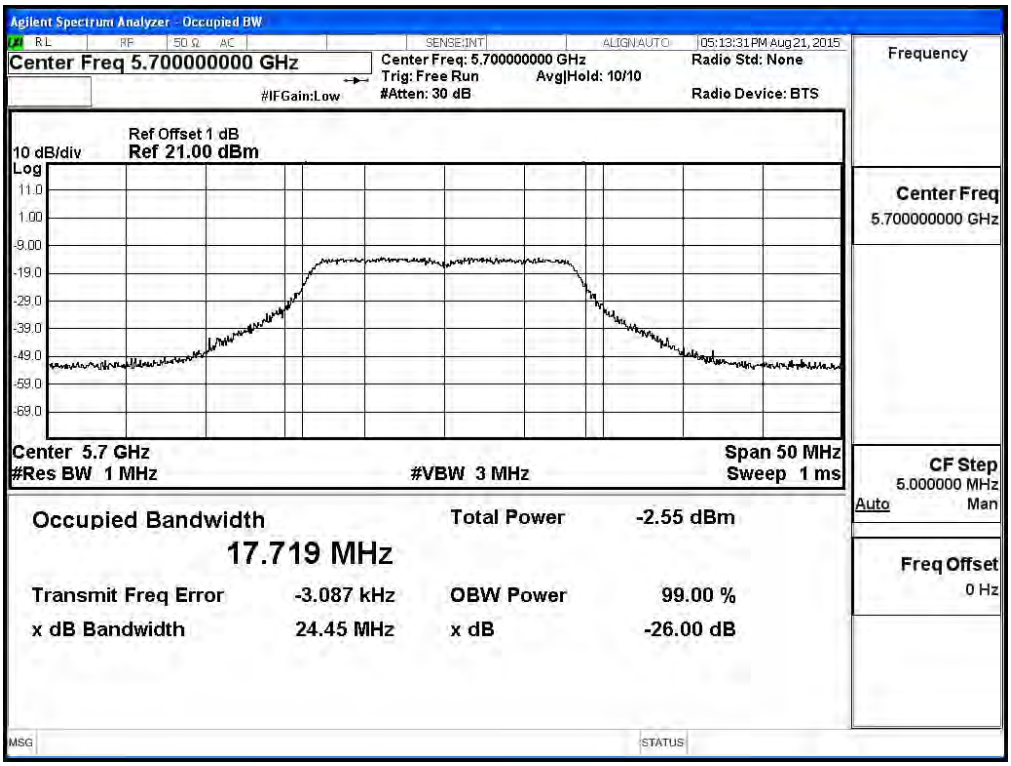
Channel 116: Chain A



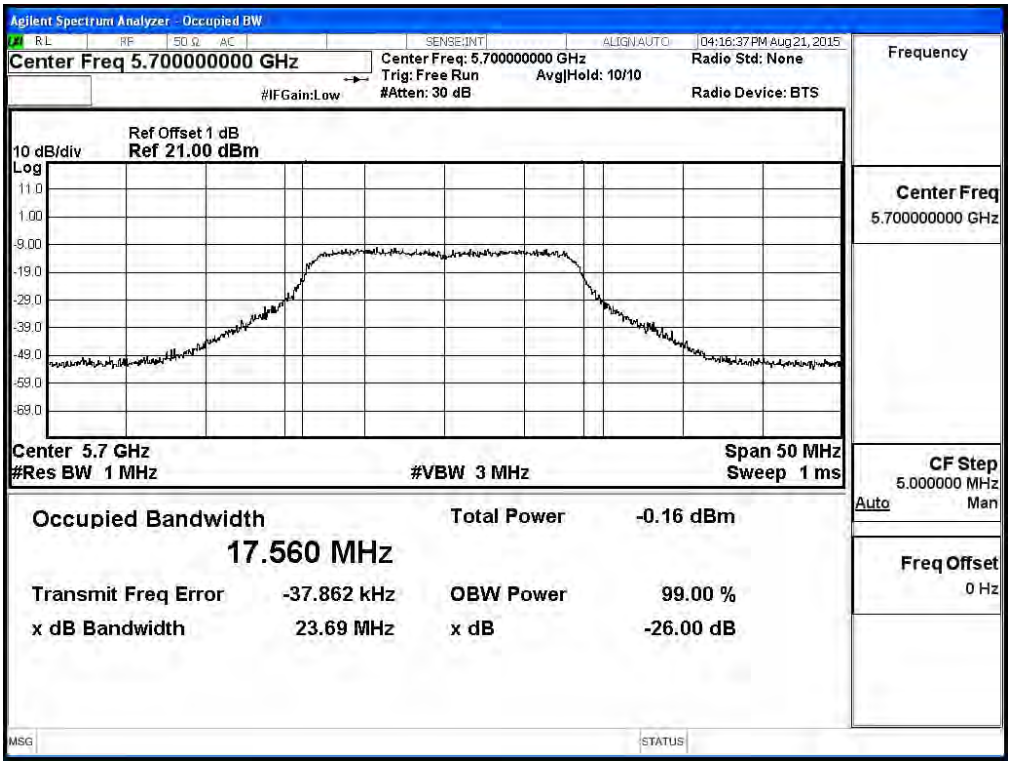
Channel 116: Chain B



Channel 140: Chain A



Channel 140: Chain B



Product : 802.11 ac PCIe Module
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 20: Transmit (802.11n-20BW 14.4Mbps)(Panel Antenna)

CHAIN A

Cable loss=1dB		Maximum conducted output power							
Channel No.	Frequency (MHz)	Data Rate (Mbps)							
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4
		Measurement Level (dBm)							
52	5260	-7.39	-7.53	-7.66	-7.77	-7.89	-7.98	-8.05	-8.17
60	5300	-7.58	--	--	--	--	--	--	--
64	5320	-8.33	--	--	--	--	--	--	--
100	5500	-4.57	--	--	--	--	--	--	--
116	5580	-3.98	-4.07	-4.15	-4.22	-4.35	-4.51	-4.62	-4.77
140	5700	-7.44	--	--	--	--	--	--	--

Note: 1.Maximum conducted output power Value =Reading value on average power meter + cable loss

CHAIN B

Cable loss=1dB		Maximum conducted output power							
Channel No.	Frequency (MHz)	Data Rate (Mbps)							
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4
		Measurement Level (dBm)							
52	5260	-8.05	-8.18	-8.31	-8.43	-8.49	-8.61	-8.67	-8.83
60	5300	-8.3	--	--	--	--	--	--	--
64	5320	-9.25	--	--	--	--	--	--	--
100	5500	-10.01	--	--	--	--	--	--	--
116	5580	-8.48	--	--	--	--	--	--	--
140	5700	-6.84	-6.96	-7.19	-7.27	-7.34	-7.46	-7.58	-7.66

Note: 1.Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power measurement:

CHAIN A+B

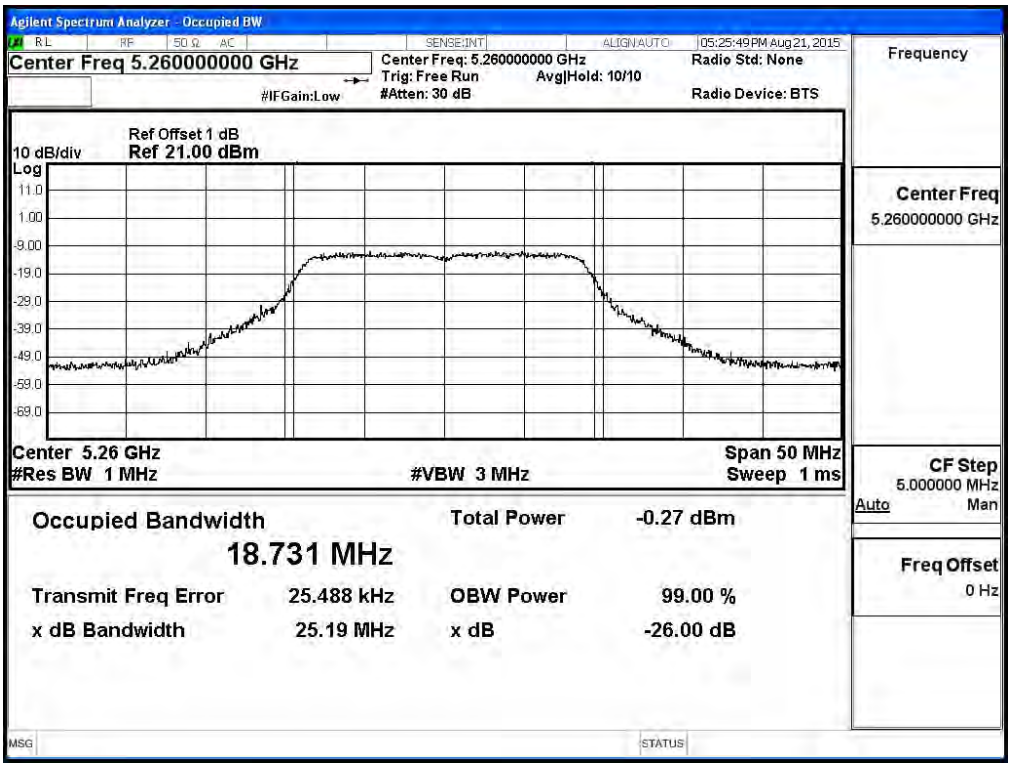
Channel Number	Frequency (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Total Power (dBm)	Output power Limit	
						(dBm)	dBm+10log(BW)
52	5260	18.641	-7.39	-8.05	-4.70	0	23.70
60	5300	18.698	-7.58	-8.30	-4.91	0	23.72
64	5320	18.736	-8.33	-9.25	-5.76	0	23.73
100	5500	18.785	-4.57	-10.01	-3.48	0	23.74
116	5580	18.615	-3.98	-8.48	-2.66	0	23.70
140	5700	18.614	-7.44	-6.84	-4.12	0	23.70

Note:

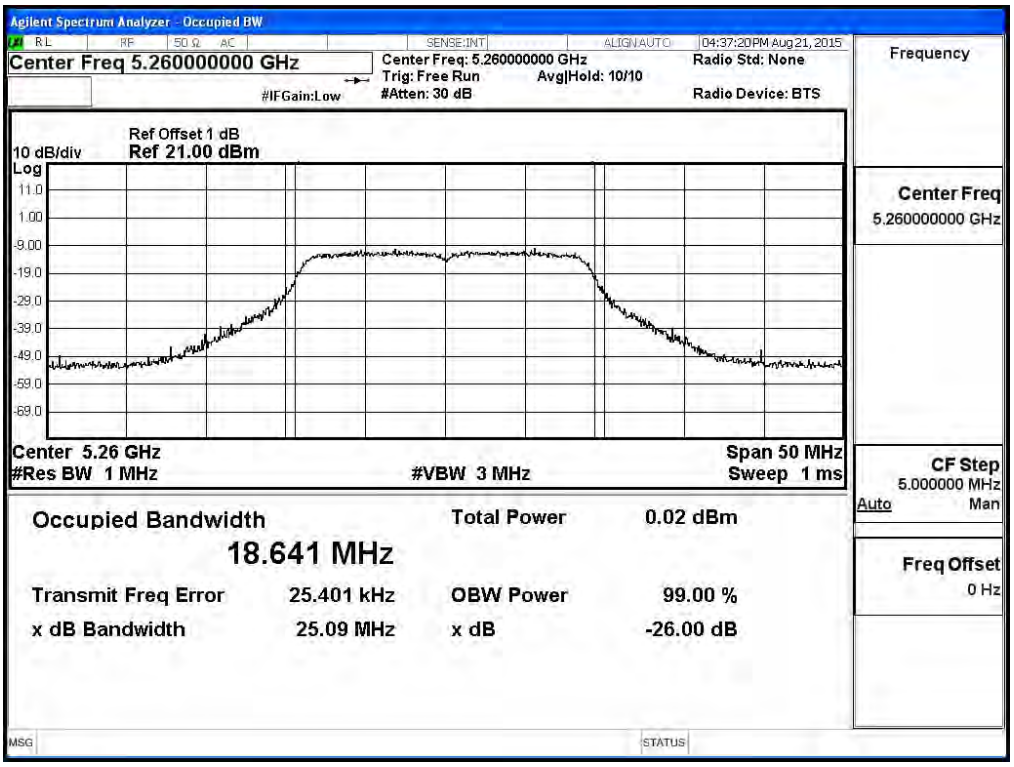
1. Power Output Value =Reading value on average power meter + cable loss.
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)).
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

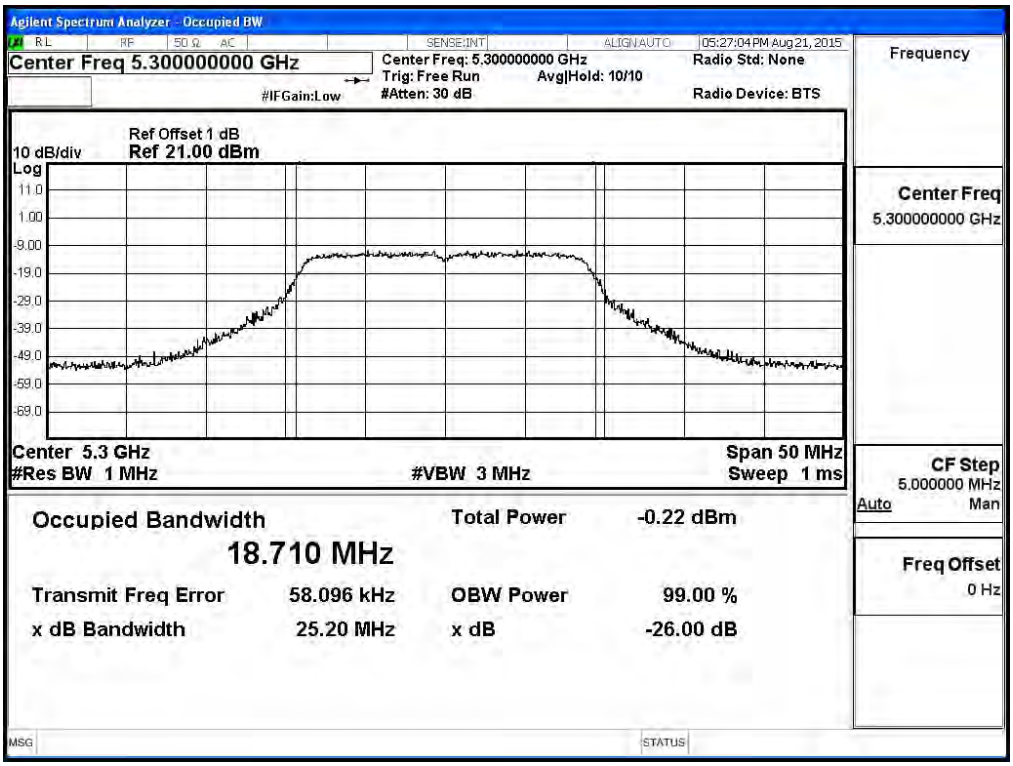
Channel 52: Chain A



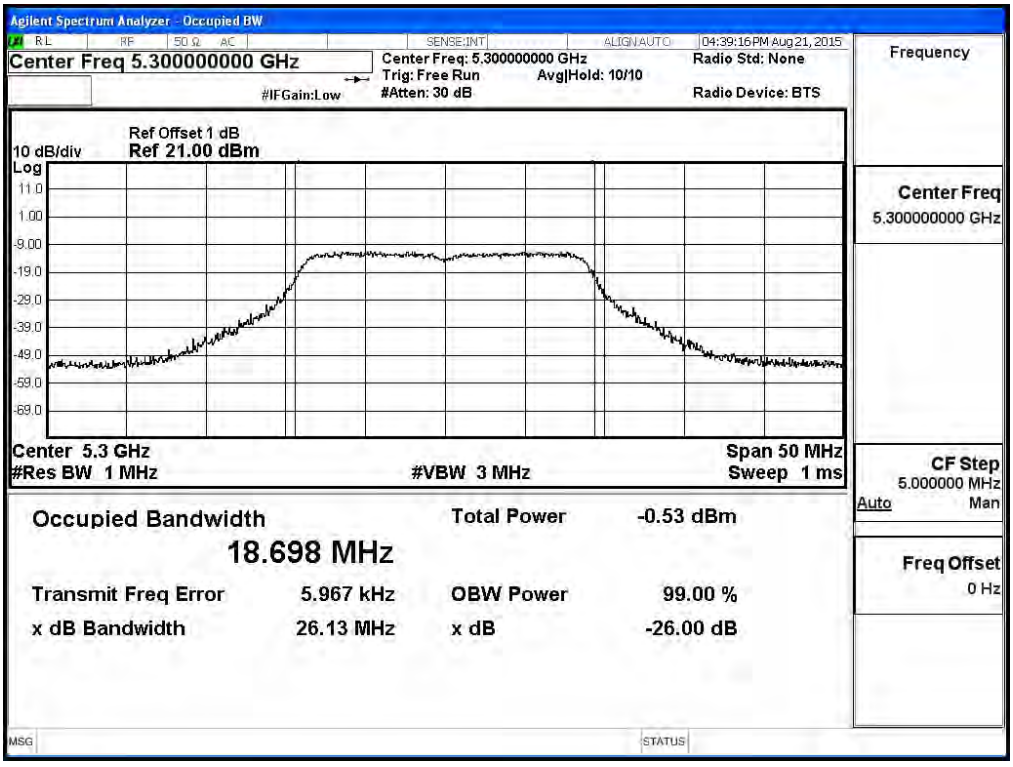
Channel 52: Chain B



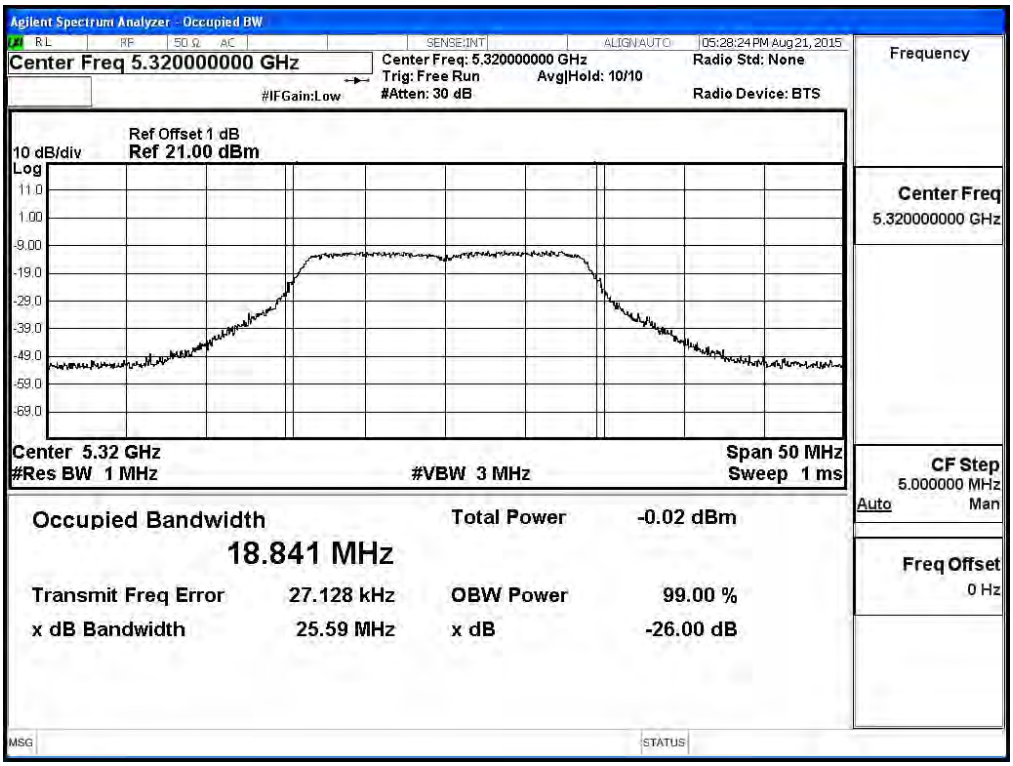
Channel 60: Chain A



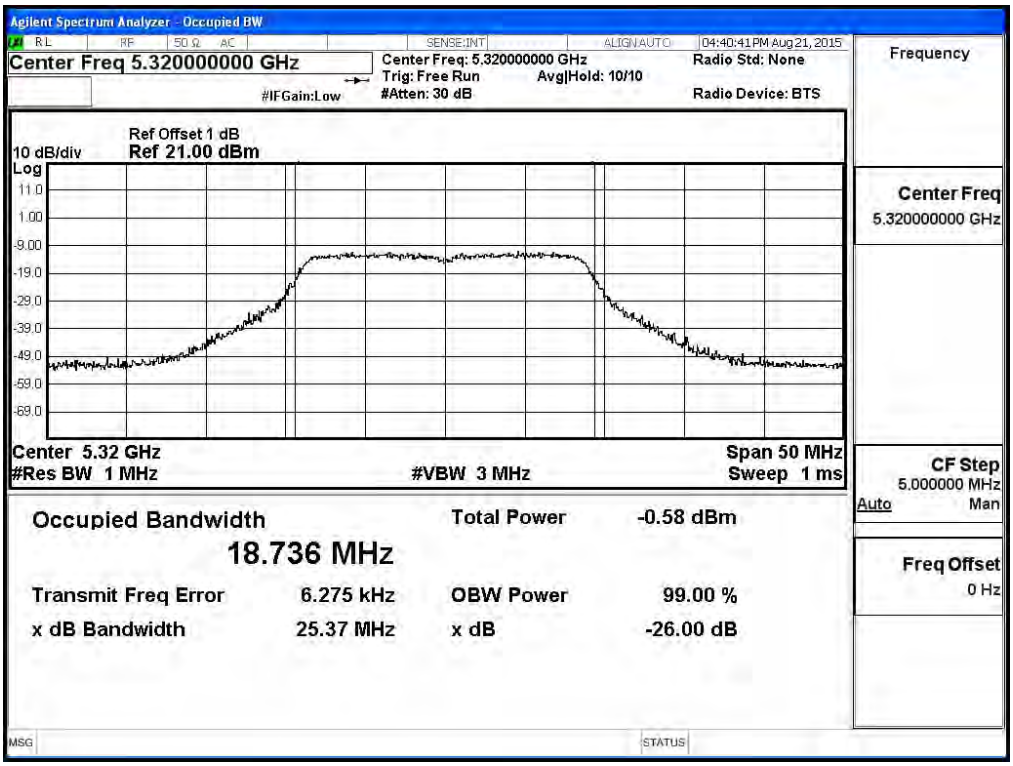
Channel 60: Chain B



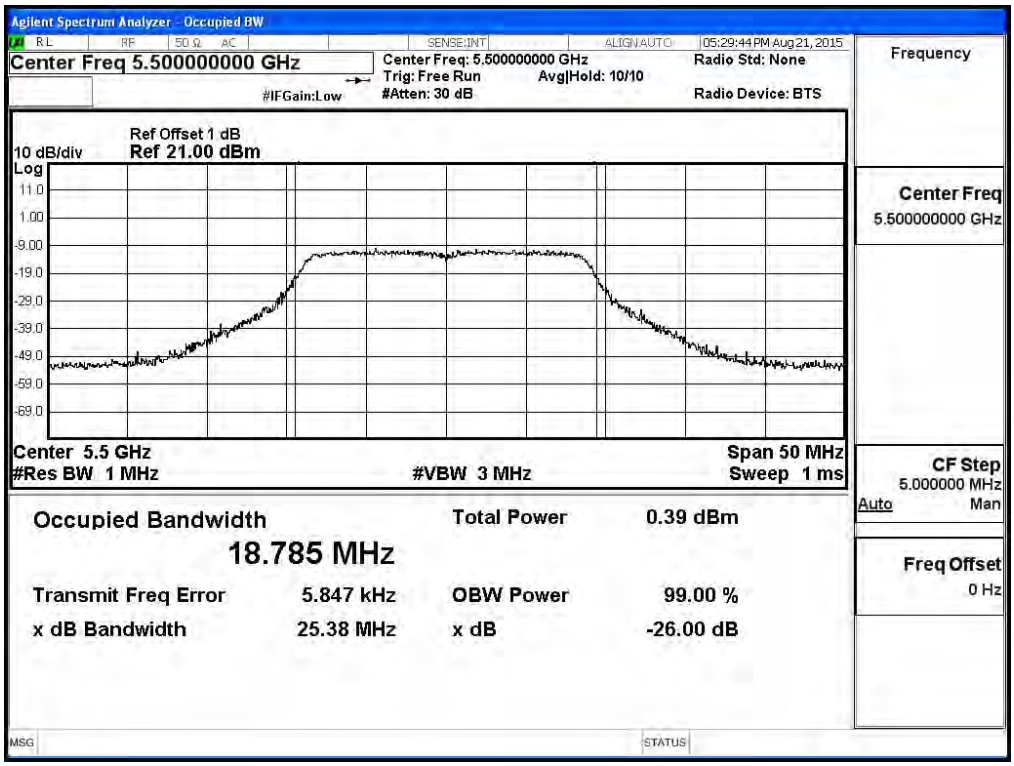
Channel 64: Chain A



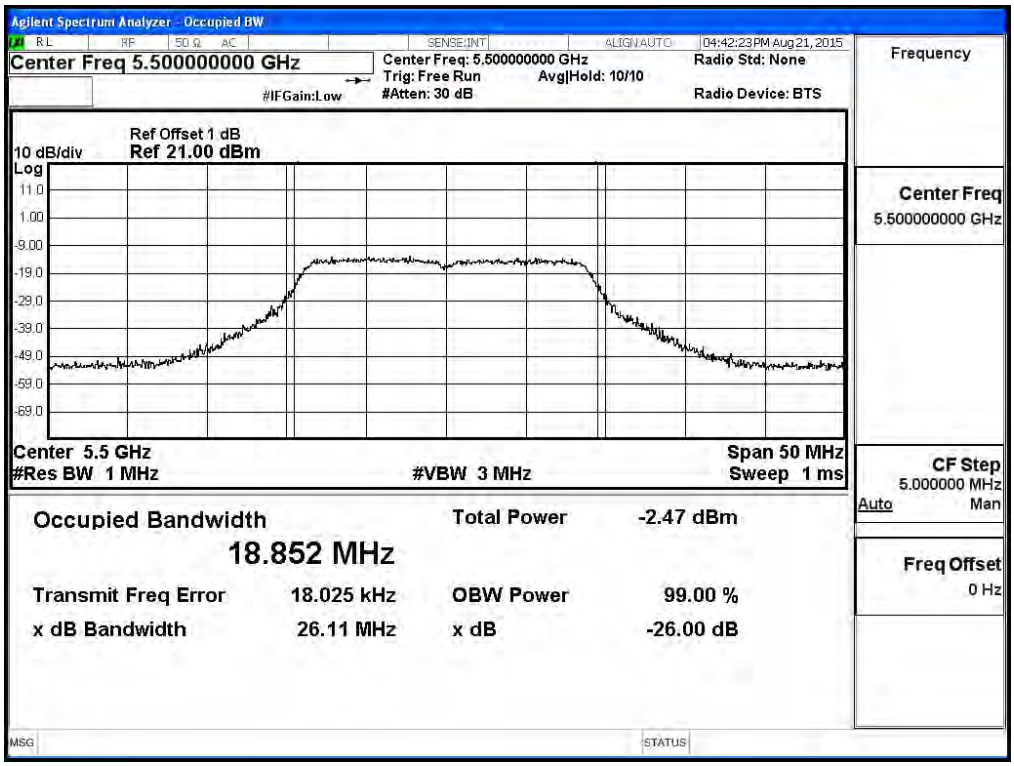
Channel 64: Chain B



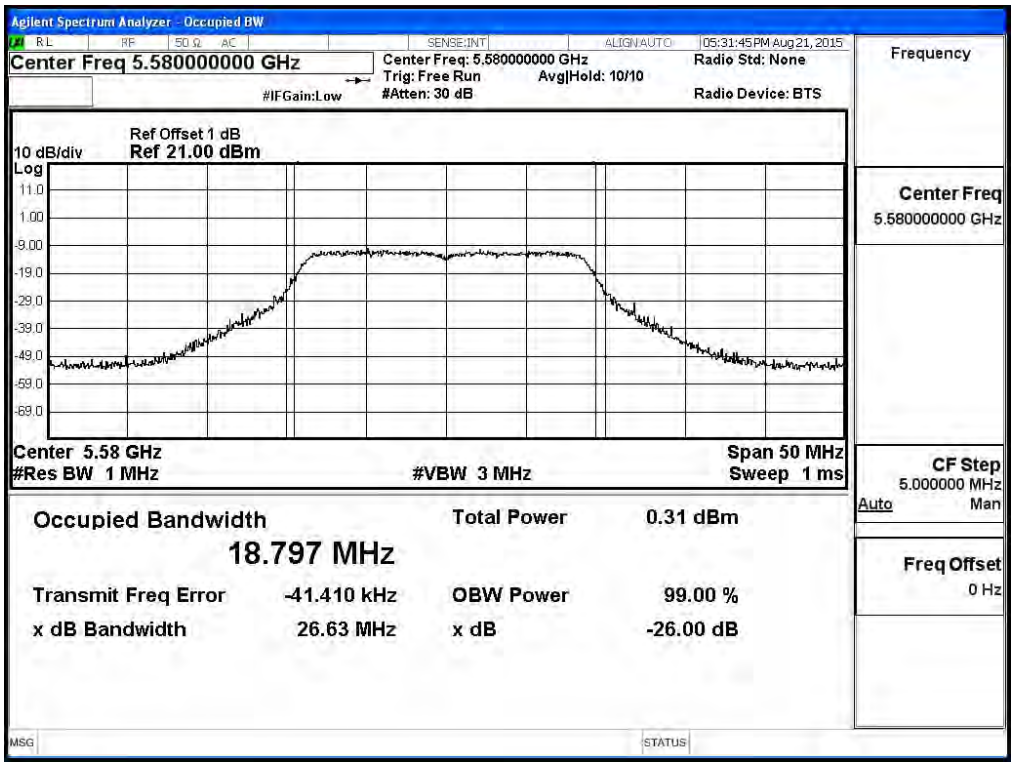
Channel 100: Chain A



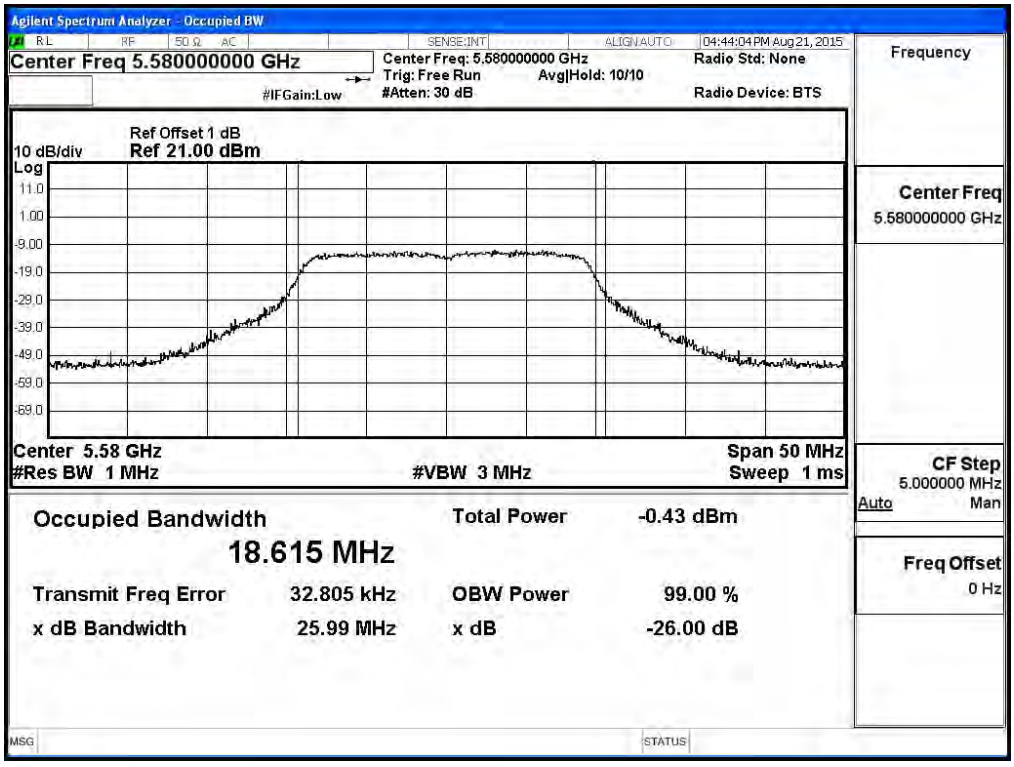
Channel 100: Chain B



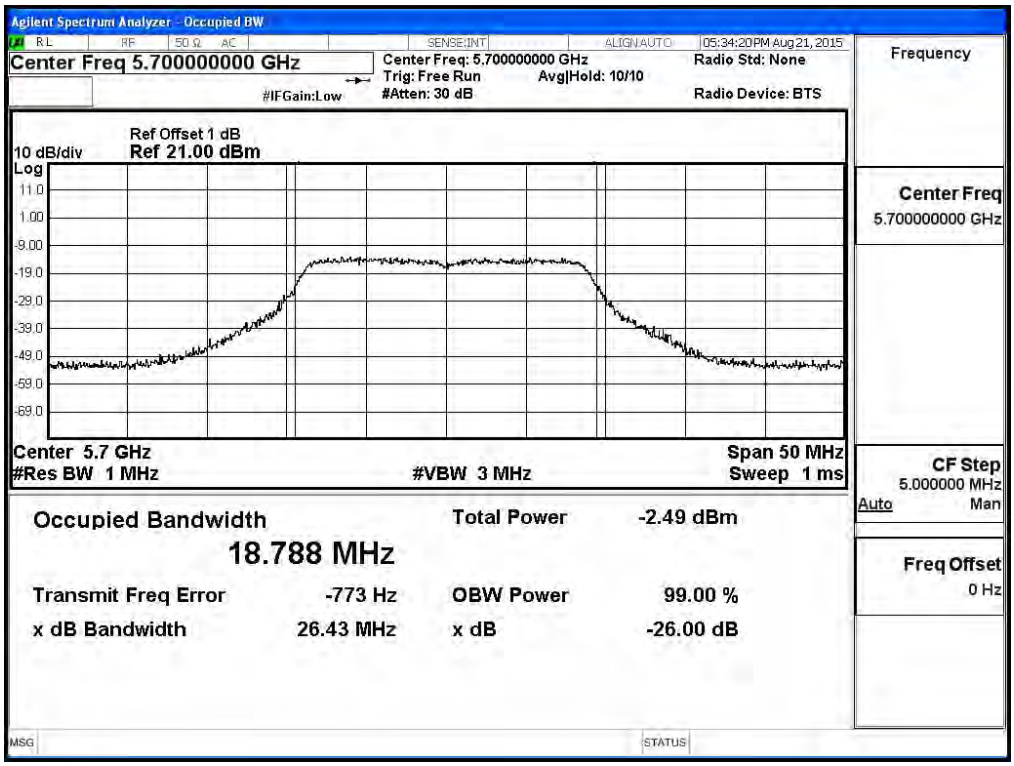
Channel 116: Chain A



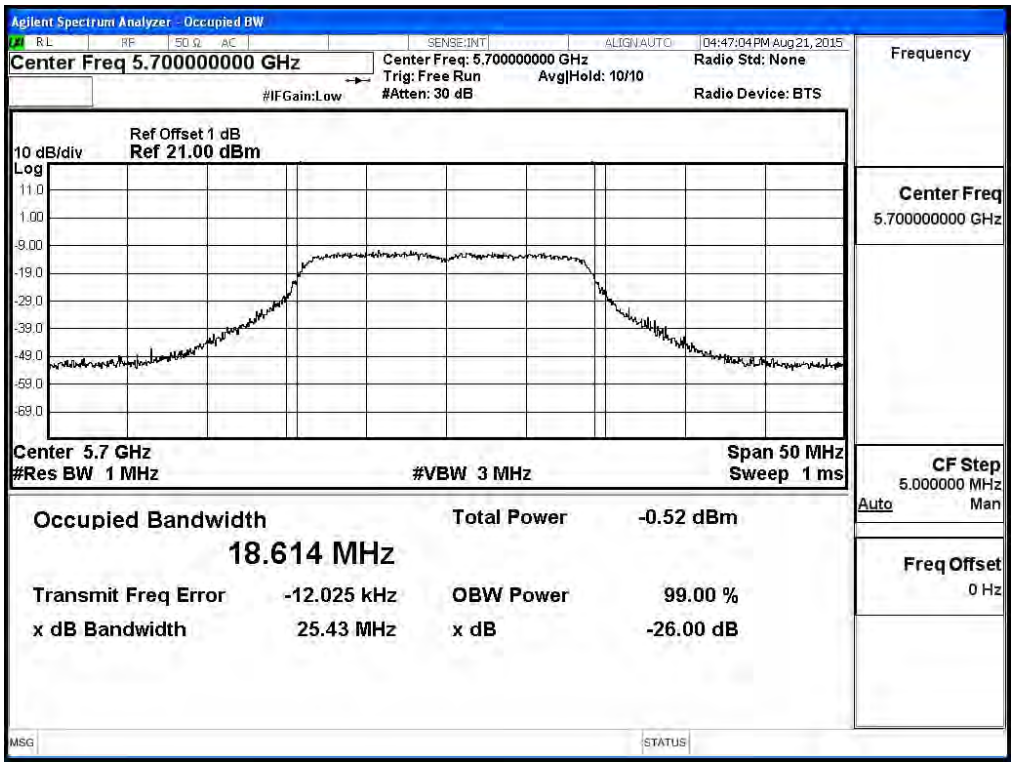
Channel 116: Chain B



Channel 140: Chain A



Channel 140: Chain B



Product : 802.11 ac PCIe Module
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 21: Transmit (802.11n-40BW 30Mbps)(Panel Antenna)

CHAIN A

Cable loss=1dB		Maximum conducted output power							
Channel No.	Frequency (MHz)	Data Rate (Mbps)							
		30	60	90	120	180	240	270	300
		Measurement Level (dBm)							
54	5270	-4.08	-4.2	-4.32	-4.43	-4.58	-4.7	-4.83	-4.92
62	5310	-4.43	--	--	--	--	--	--	--
102	5510	-3.76	--	--	--	--	--	--	--
110	5550	-3.87	--	--	--	--	--	--	--
134	5670	-3.41	-3.51	-3.57	-3.72	-3.85	-3.99	-4.11	-4.22

Note: 1.Maximum conducted output power Value =Reading value on average power meter + cable loss

CHAIN B

Cable loss=1dB		Maximum conducted output power							
Channel No.	Frequency (MHz)	Data Rate (Mbps)							
		30	60	90	120	180	240	270	300
		Measurement Level (dBm)							
54	5270	-5.05	-5.14	-5.21	-5.34	-5.6	-5.75	-5.83	-5.91
62	5310	-5.73	--	--	--	--	--	--	--
102	5510	-9.69	--	--	--	--	--	--	--
110	5550	-9.42	--	--	--	--	--	--	--
134	5670	-3.91	-4	-4.08	-4.25	-4.33	-4.41	-4.52	-4.63

Note: 1.Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power measurement:

CHAIN A+B

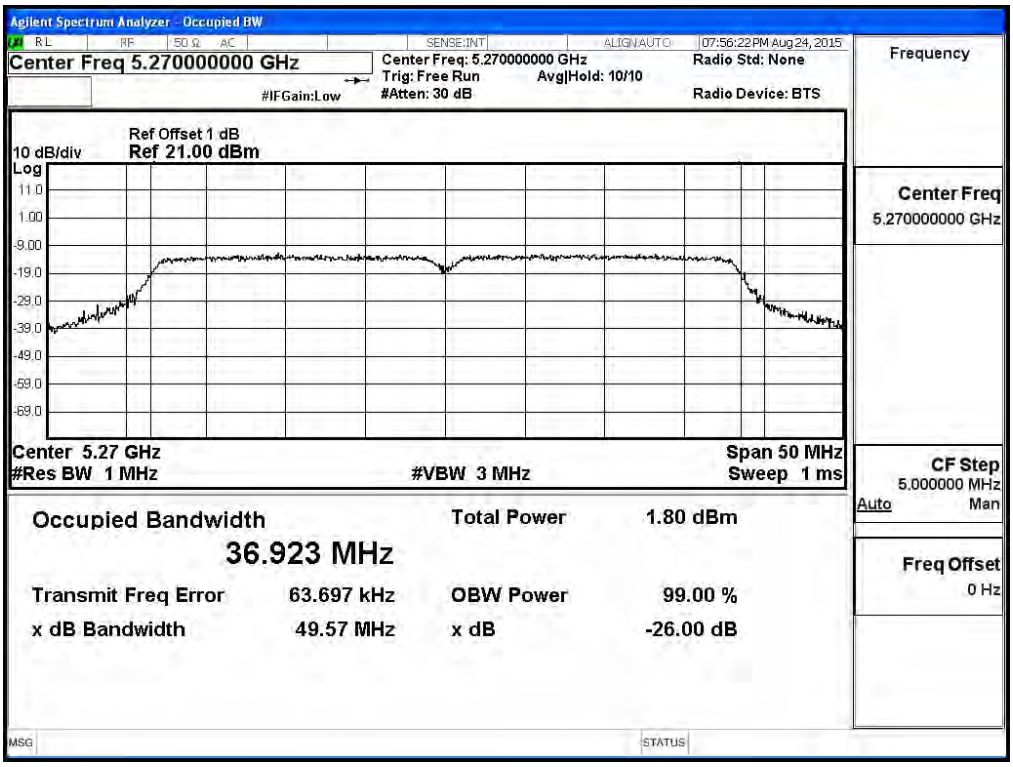
Channel Number	Frequency (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Total Power (dBm)	Output power Limit	
						(dBm)	dBm+10log(BW)
54	5270	36.848	-4.08	-5.05	-1.53	0	26.66
62	5310	36.861	-4.43	-5.73	-2.02	0	26.67
102	5510	36.825	-3.76	-9.69	-2.77	0	26.66
110	5550	36.841	-3.87	-9.42	-2.80	0	26.66
134	5670	37.029	-3.41	-3.91	-0.64	0	26.69

Note:

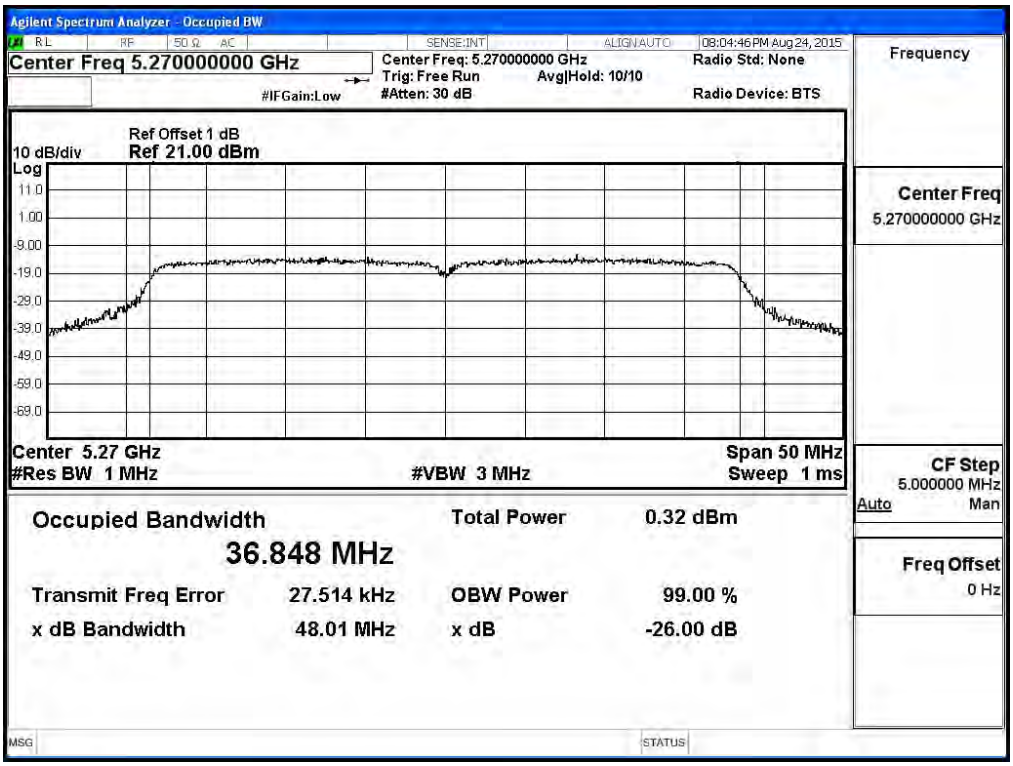
1. Power Output Value =Reading value on average power meter + cable loss.
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)).
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

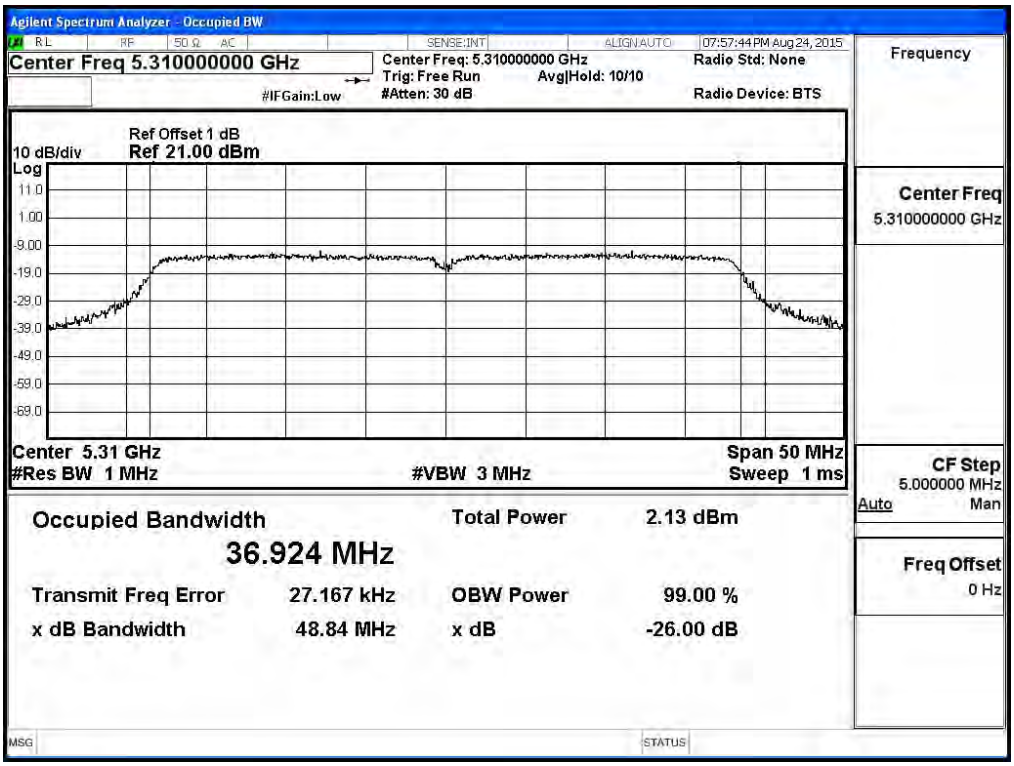
Channel 54: Chain A



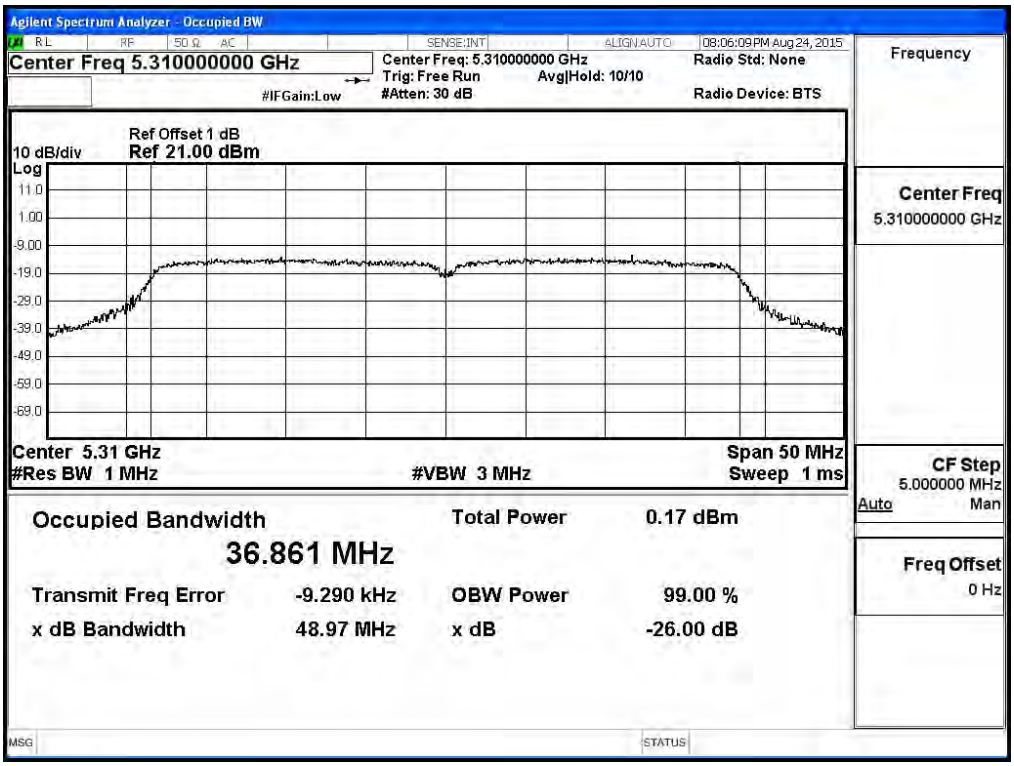
Channel 54: Chain B



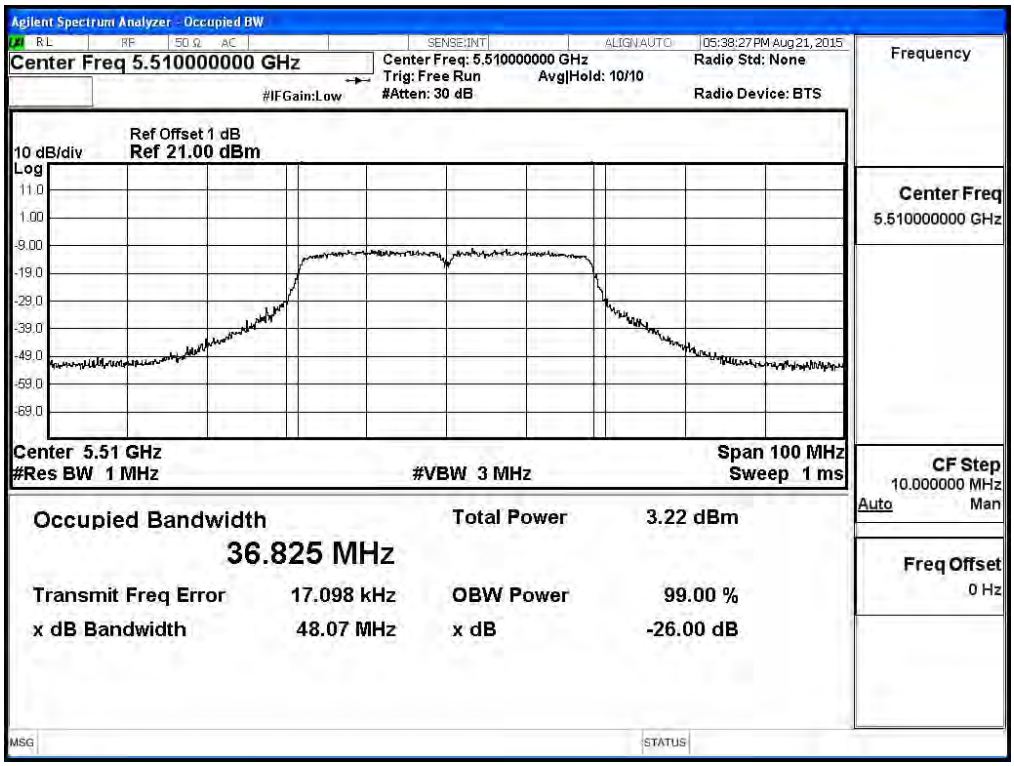
Channel 62: Chain A



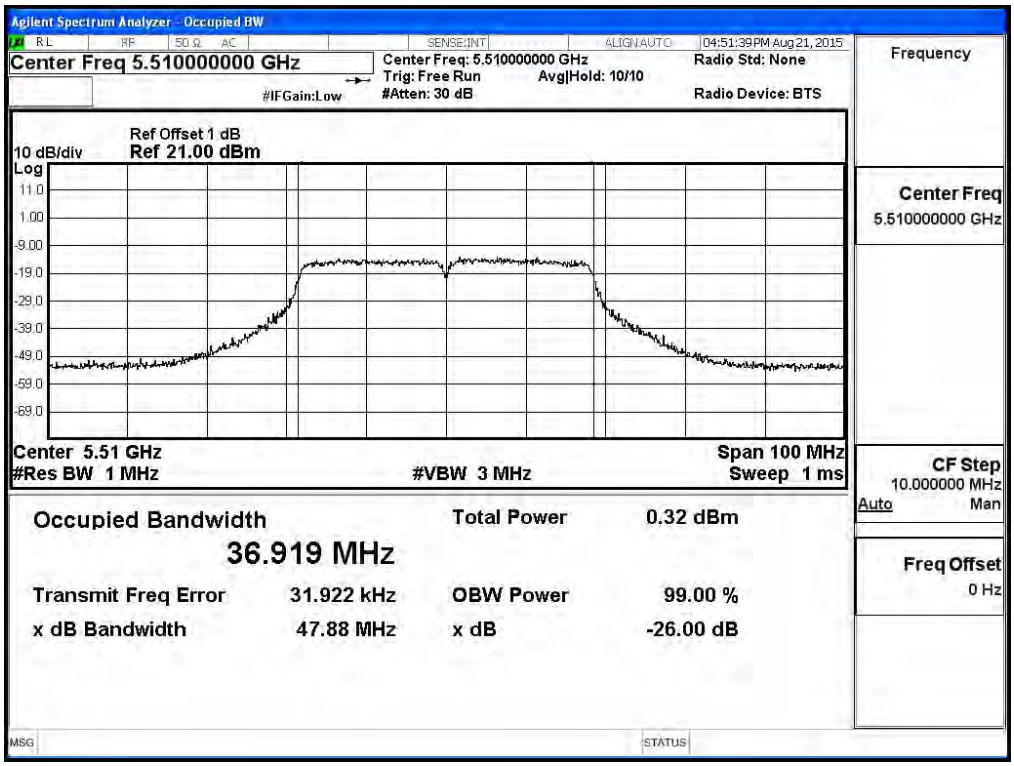
Channel 62: Chain B



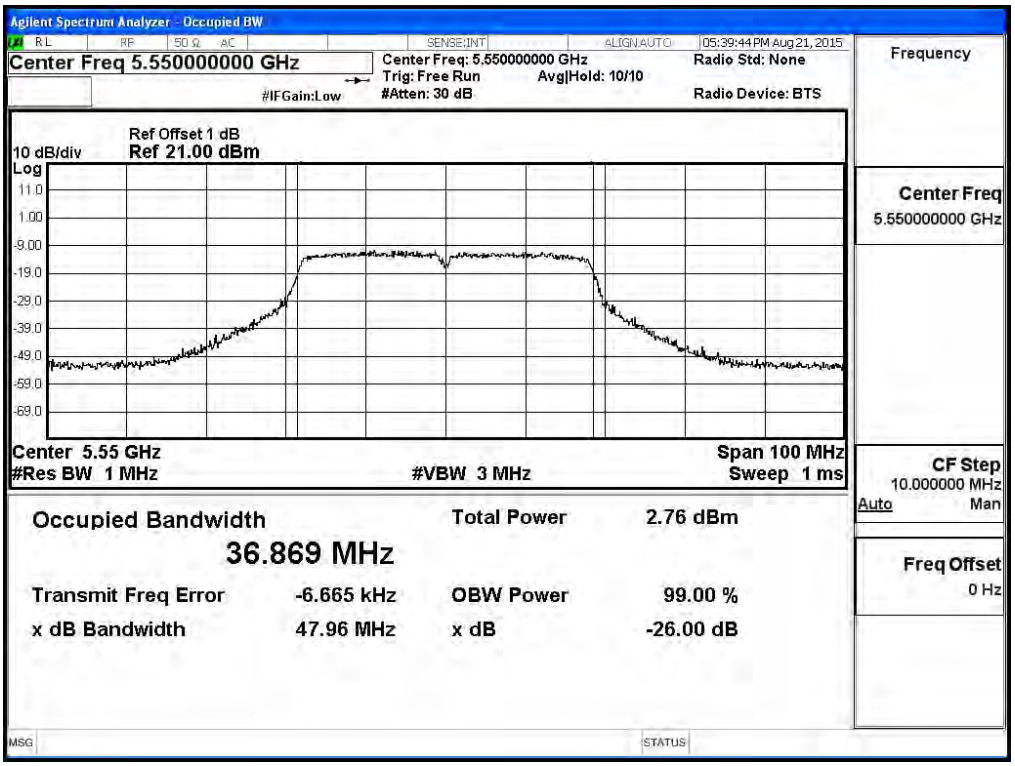
Channel 102: Chain A



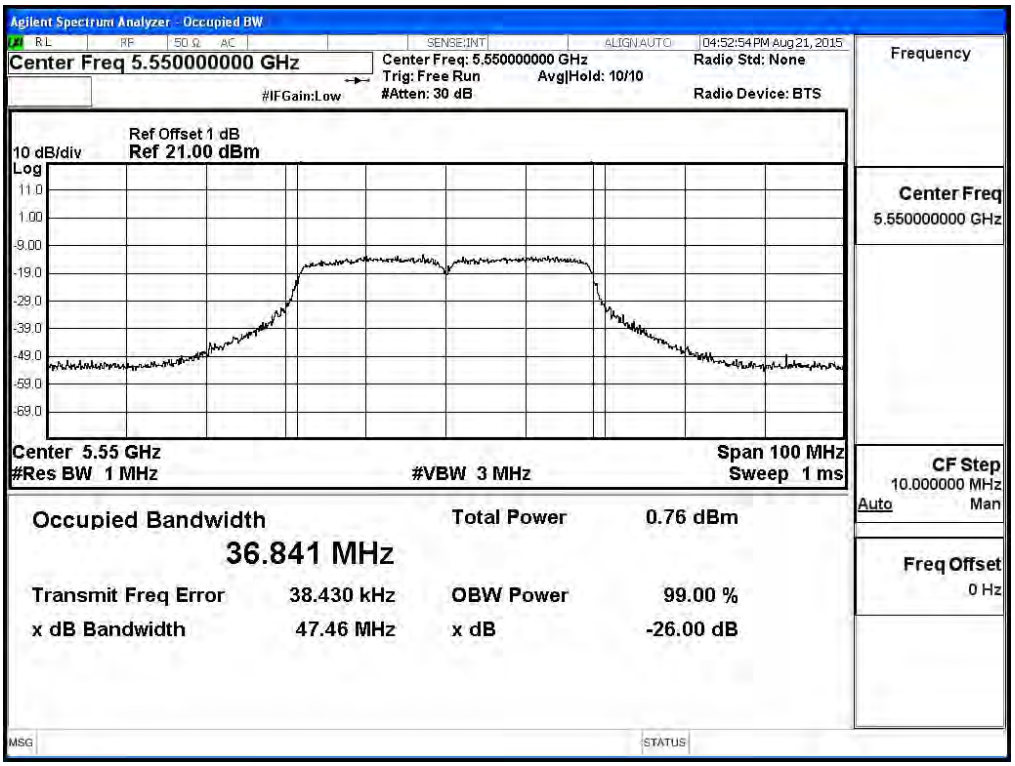
Channel 102: Chain B



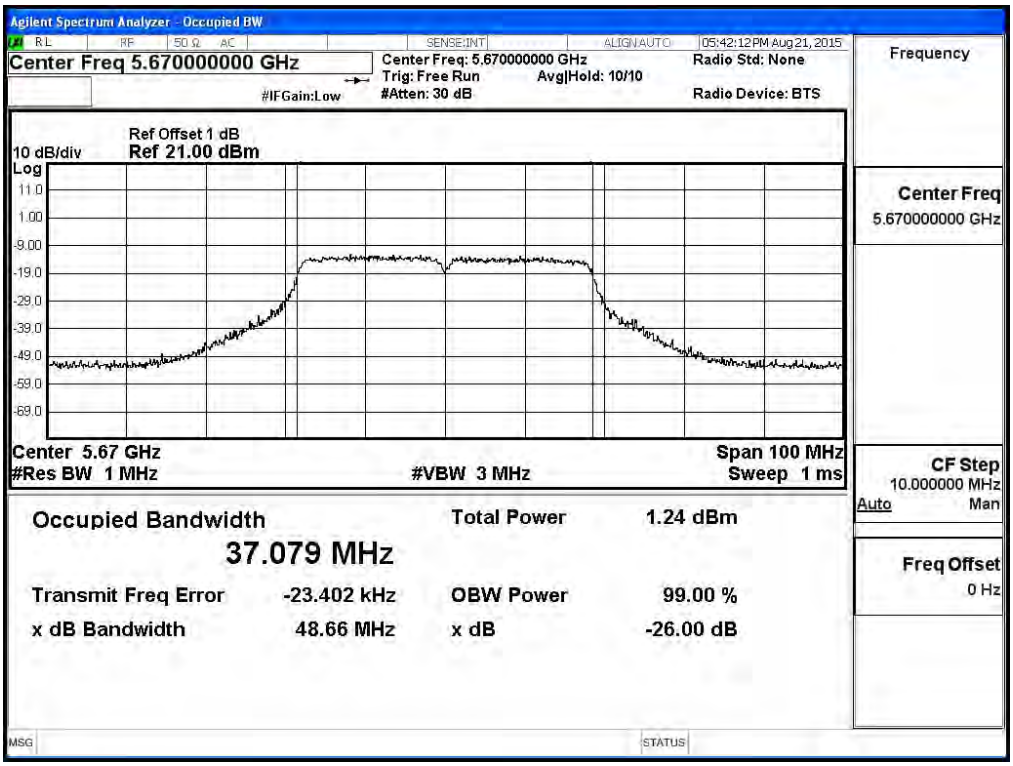
Channel 110: Chain A



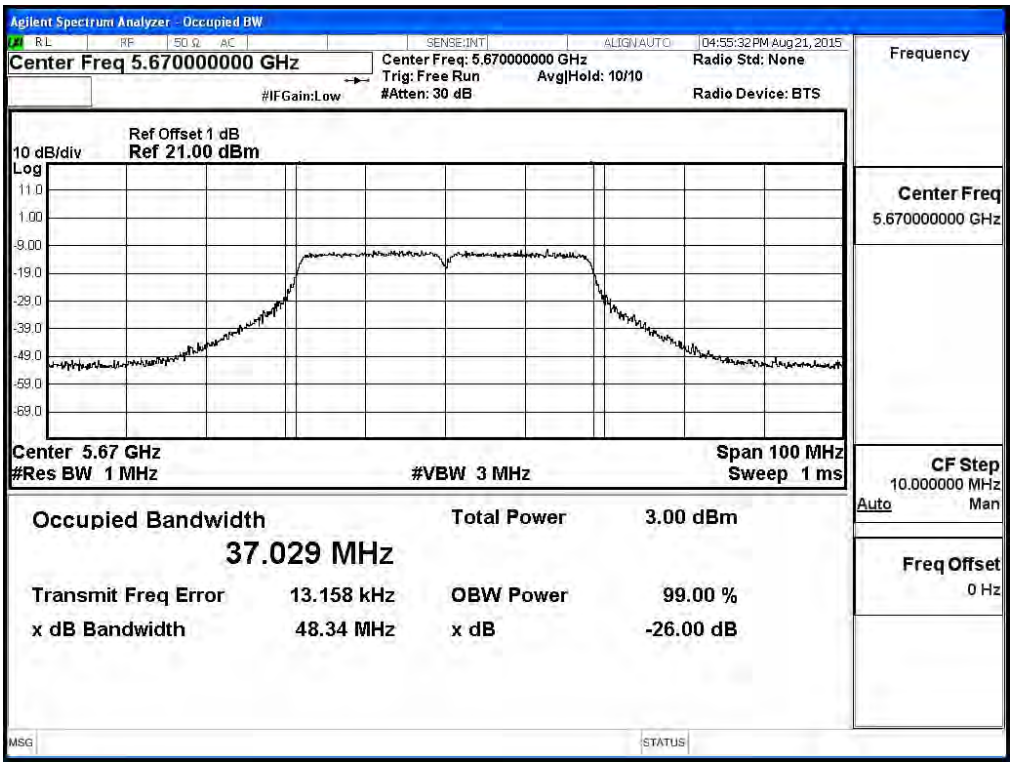
Channel 110: Chain B



Channel 134: Chain A



Channel 134: Chain B



Product : 802.11 ac PCIe Module
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 22: Transmit (802.11ac-20BW-14.4Mbps)(Panel Antenna)

Chain A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8
		Measurement Level (dBm)								
144 (Band3)	5720	-8.42	-8.5	-8.57	-8.74	-8.91	-8.99	-9.07	-9.13	-9.19
144 (Band4)	5720	-14.33	-14.41	-14.49	-14.53	-14.61	-14.72	-14.91	-15.03	-15.11

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8
		Measurement Level (dBm)								
144 (Band3)	5720	-6.81	-6.89	-7.01	-7.11	-7.23	-7.32	-7.45	-7.53	-7.64
144 (Band4)	5720	-12.24	-12.33	-12.39	-12.52	-12.6	-12.69	-12.83	-12.94	-13.01

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

CHAIN A+B

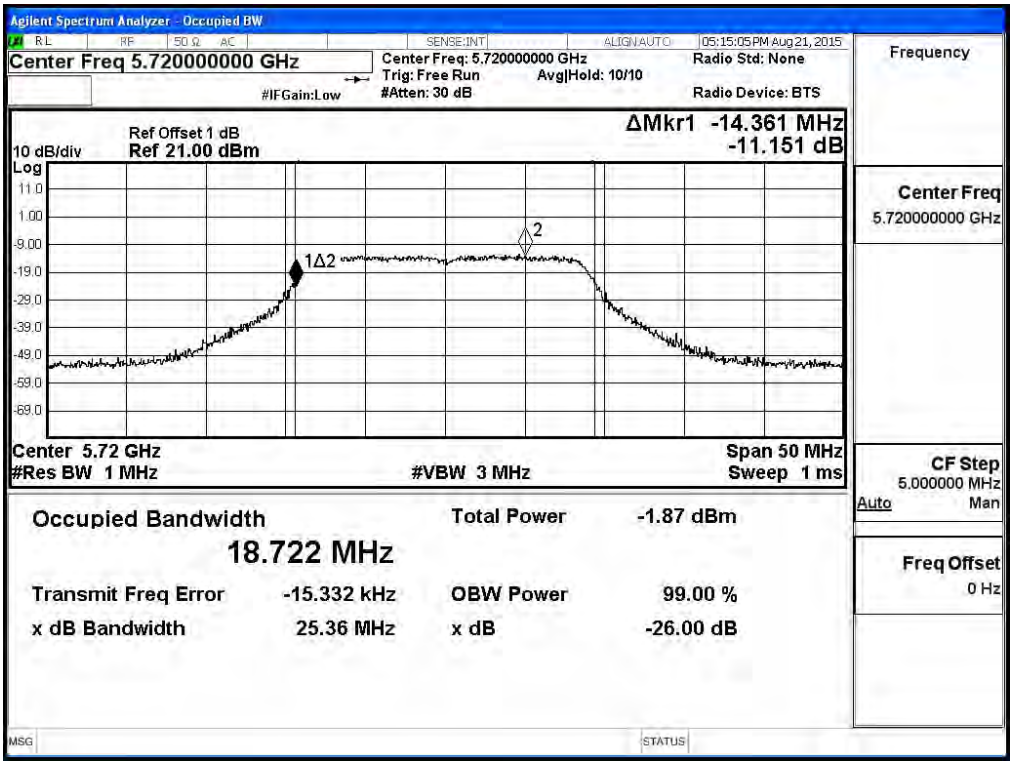
Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit		Result
						(dBm)	dBm+10log(BW)	
144(Band3)	5720	14.361	-8.42	-6.81	-4.53	0	22.57	Pass
144(Band4)	5720	4.361	-14.33	-12.24	-10.15	30	17.40	Pass

Note:

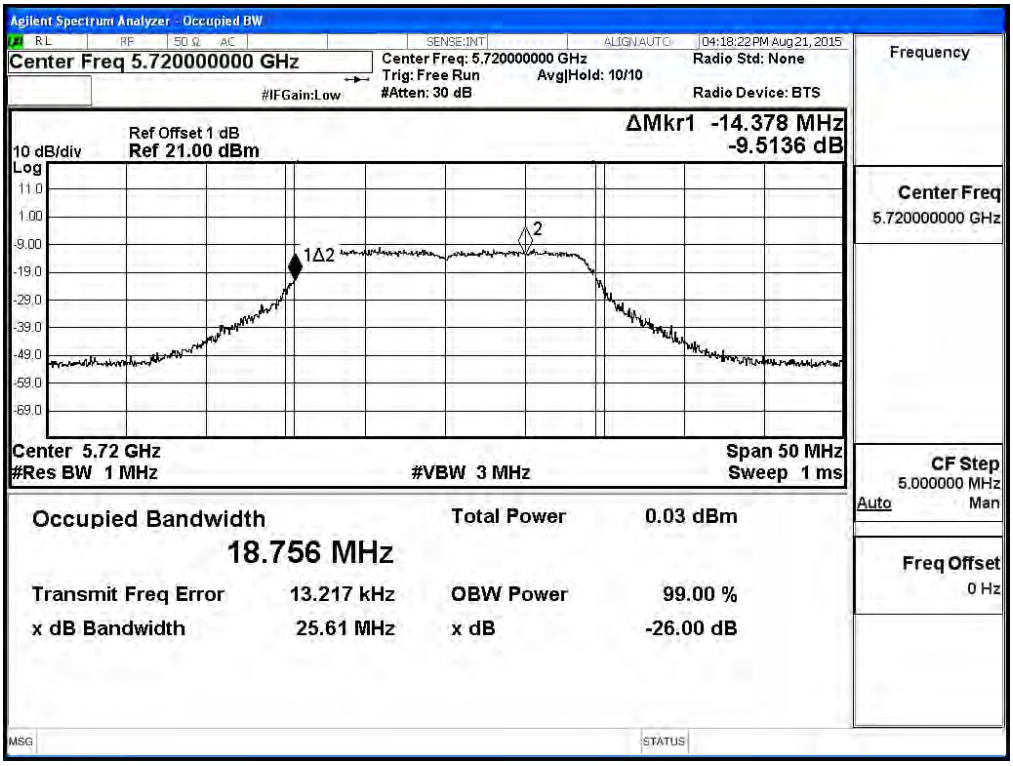
1. Power Output Value =Reading value on average power meter + cable loss.
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)).
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

Channel 144: Chain A

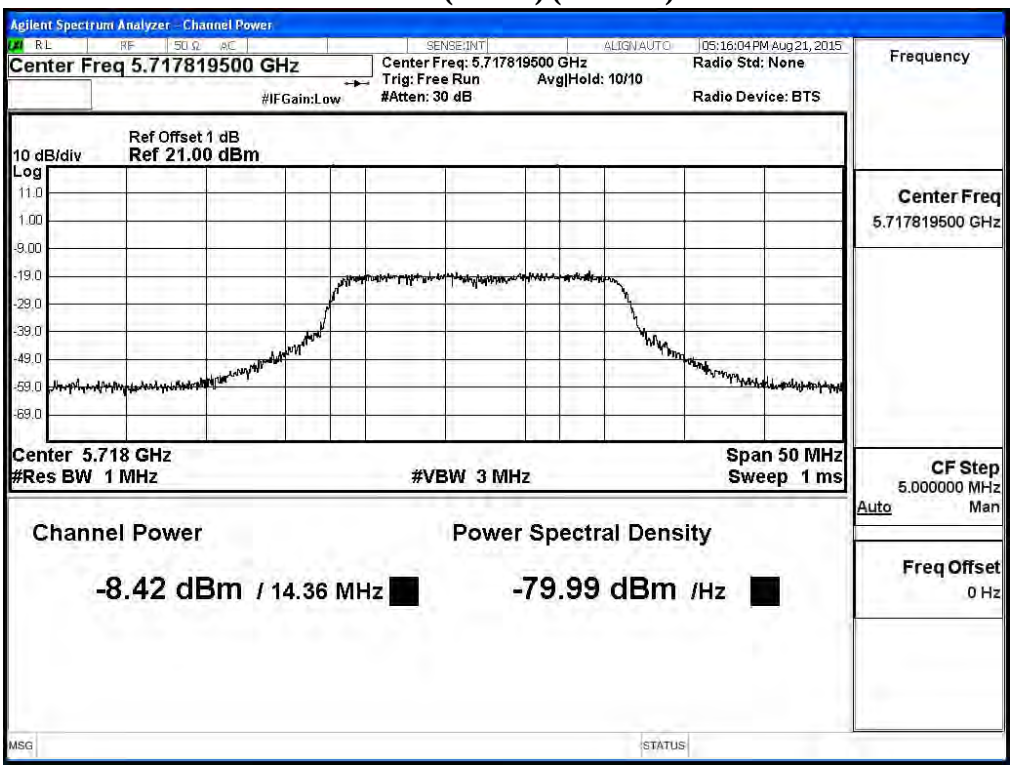


Channel 144: Chain B

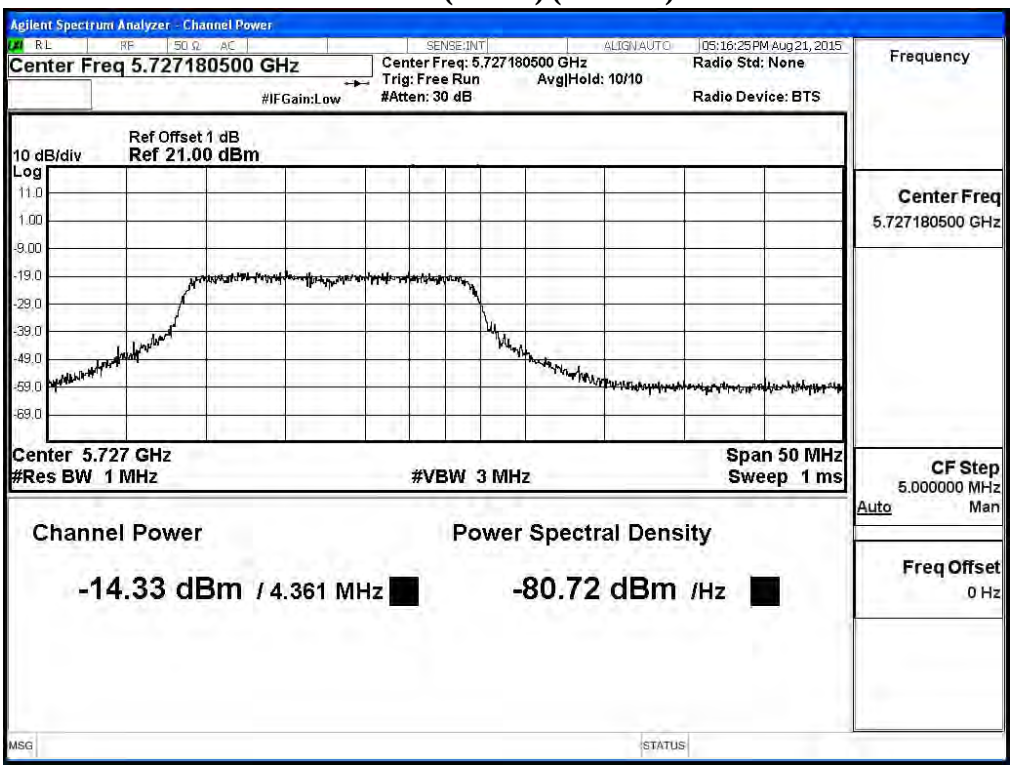


Maximum conducted output power:

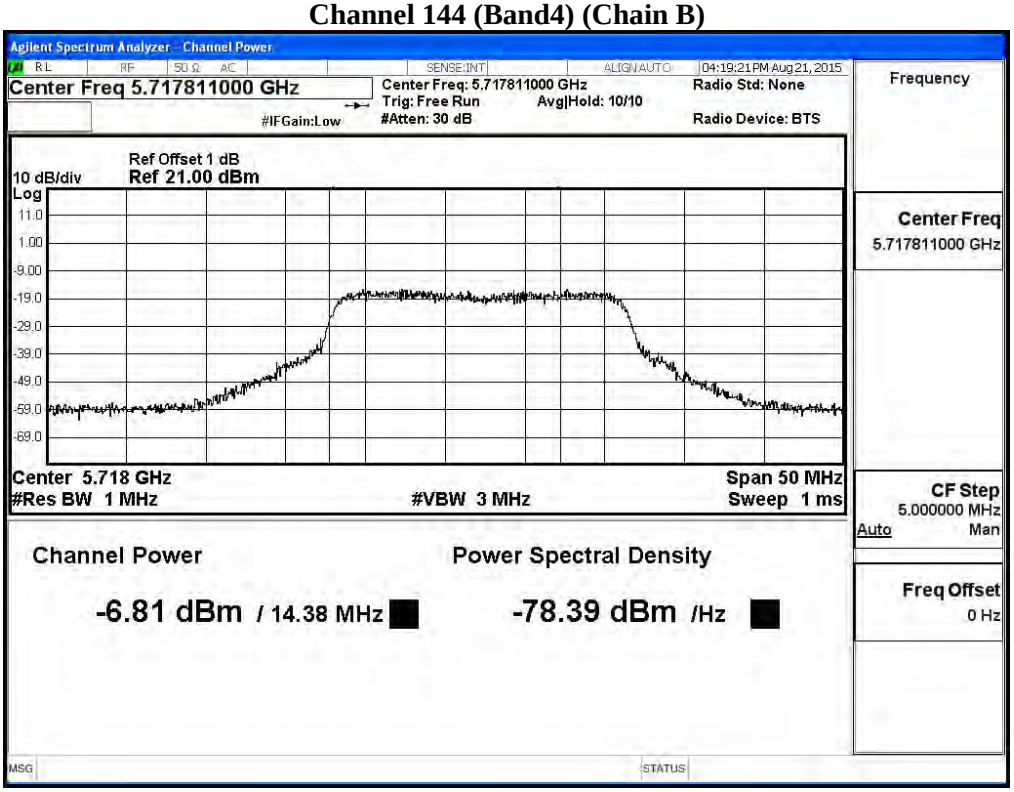
Channel 144 (Band3) (Chain A)



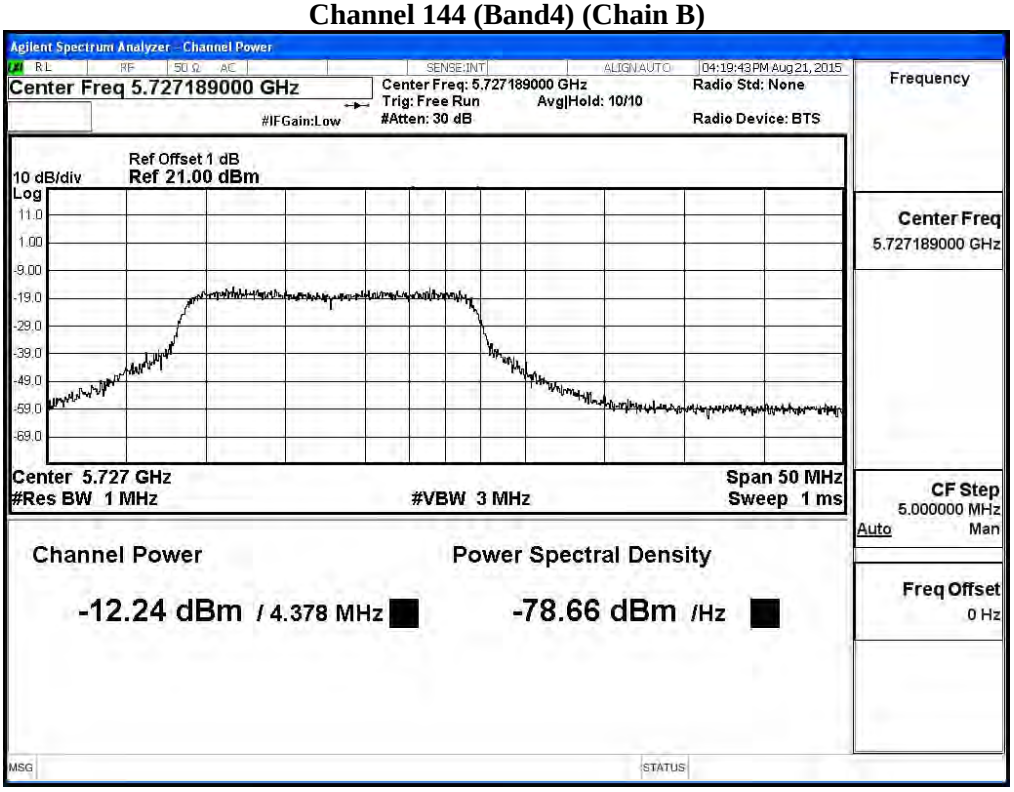
Channel 144 (Band3) (Chain A)



Channel 144 (Band4) (Chain B)



Channel 144 (Band4) (Chain B)



Product : 802.11 ac PCIe Module
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 23: Transmit (802.11ac-40BW-30Mbps)(Panel Antenna)

Chain A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8
		Measurement Level (dBm)								
142F(Band3)	5710	-5.83	-5.91	-5.99	-6.06	-6.14	-6.22	-6.31	-6.4	-6.52
142F(Band4)	5710	-16.08	-16.19	-16.41	-16.49	-16.56	-16.63	-16.7	-16.76	-16.81

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8
		Measurement Level (dBm)								
142F(Band3)	5710	-3.65	-3.73	-3.82	-3.91	-4.02	-4.1	-4.19	-4.27	-4.35
142F(Band4)	5710	-15.09	-15.17	-15.25	-15.37	-15.5	-15.58	-15.67	-15.79	-15.82

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

CHAIN A+B

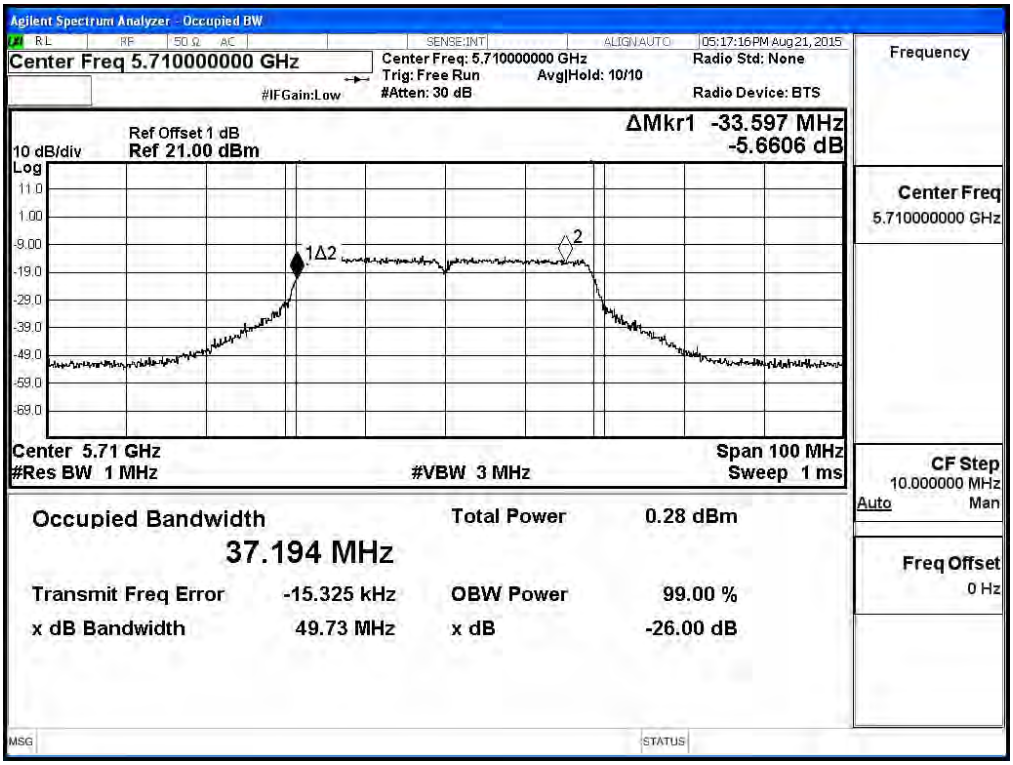
Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit		Result
						(dBm)	dBm+10log(BW)	
142F(Band3)	5710	33.465	-5.83	-3.65	-1.59	0	26.25	Pass
142F(Band4)	5710	3.465	-16.08	-15.09	-12.55	30	16.40	Pass

Note:

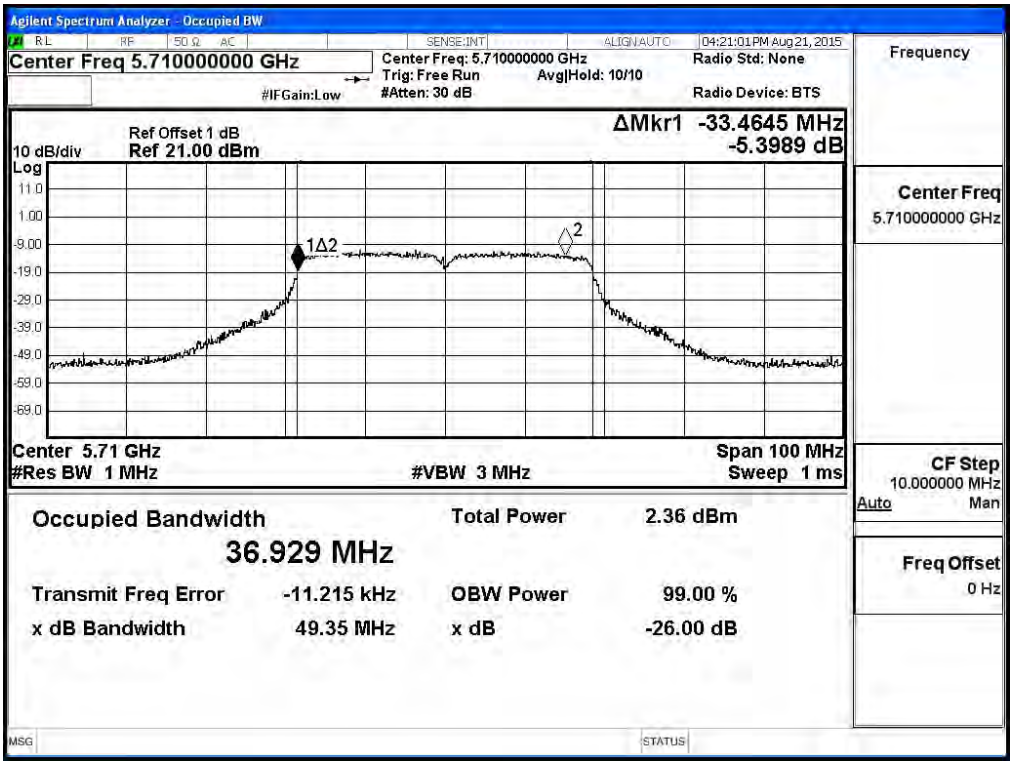
1. Power Output Value =Reading value on average power meter + cable loss.
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)).
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

Channel 142: Chain A

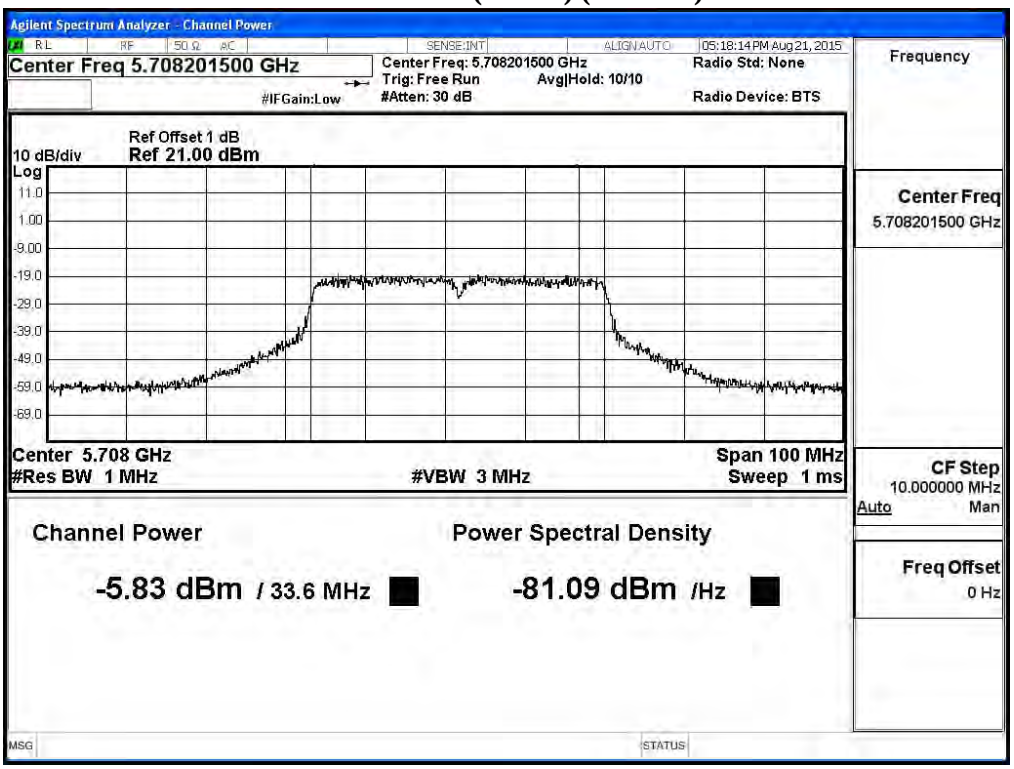


Channel 142: Chain B

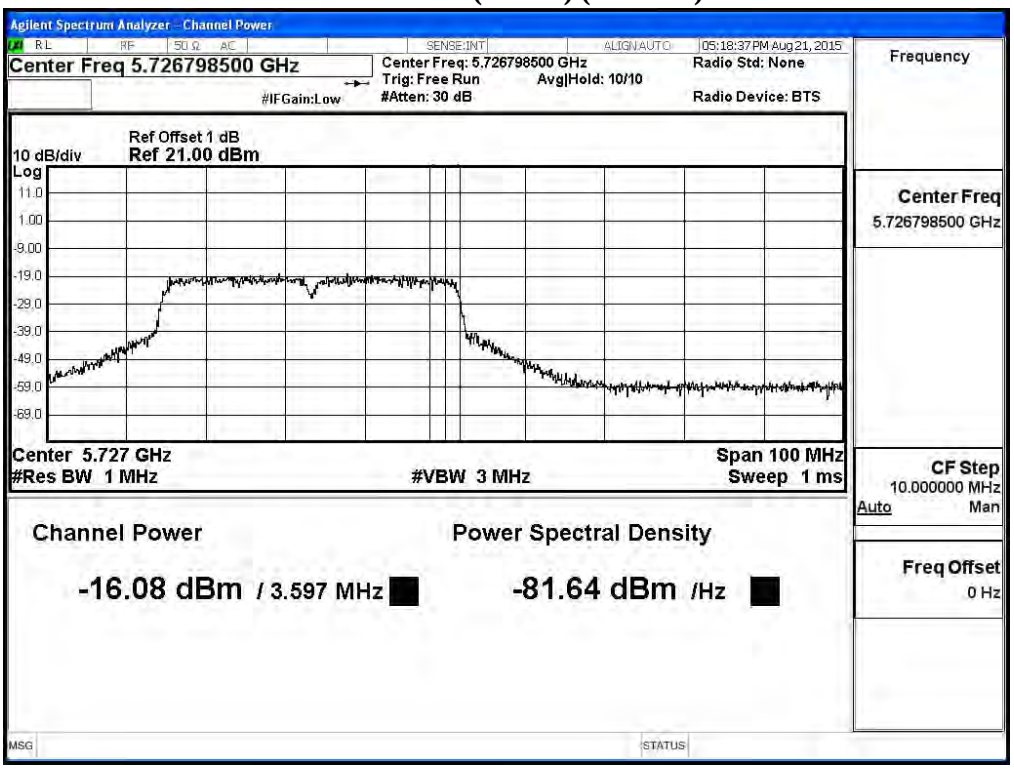


Maximum conducted output power:

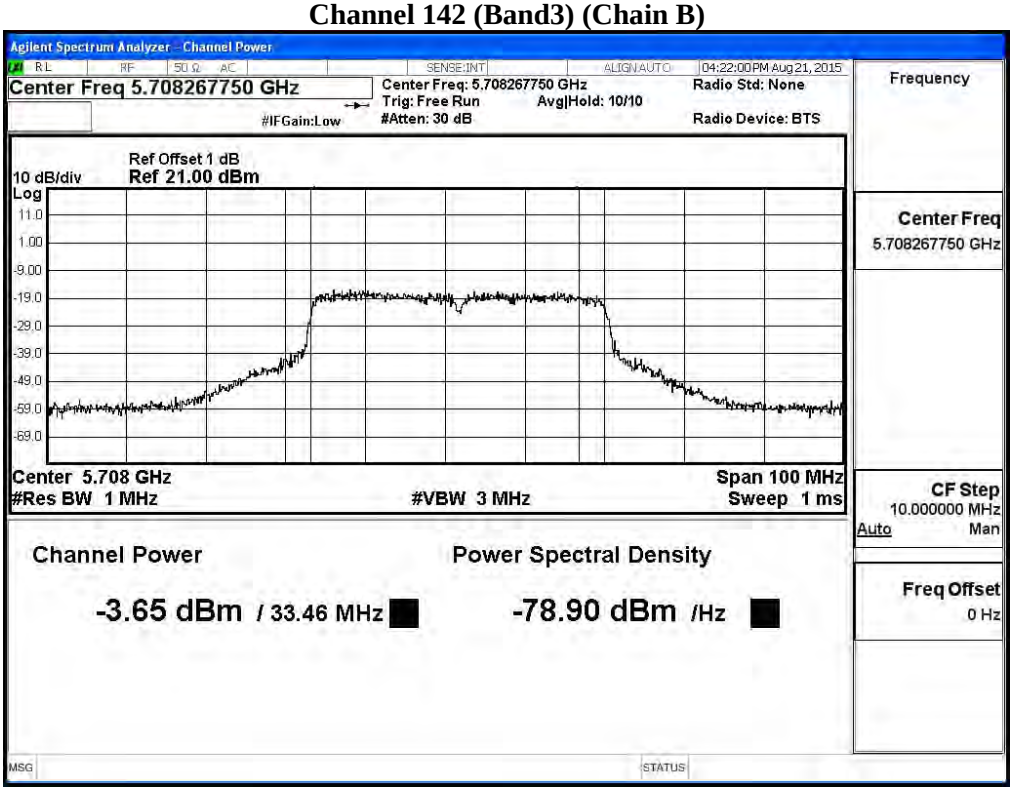
Channel 142 (Band3) (Chain A)



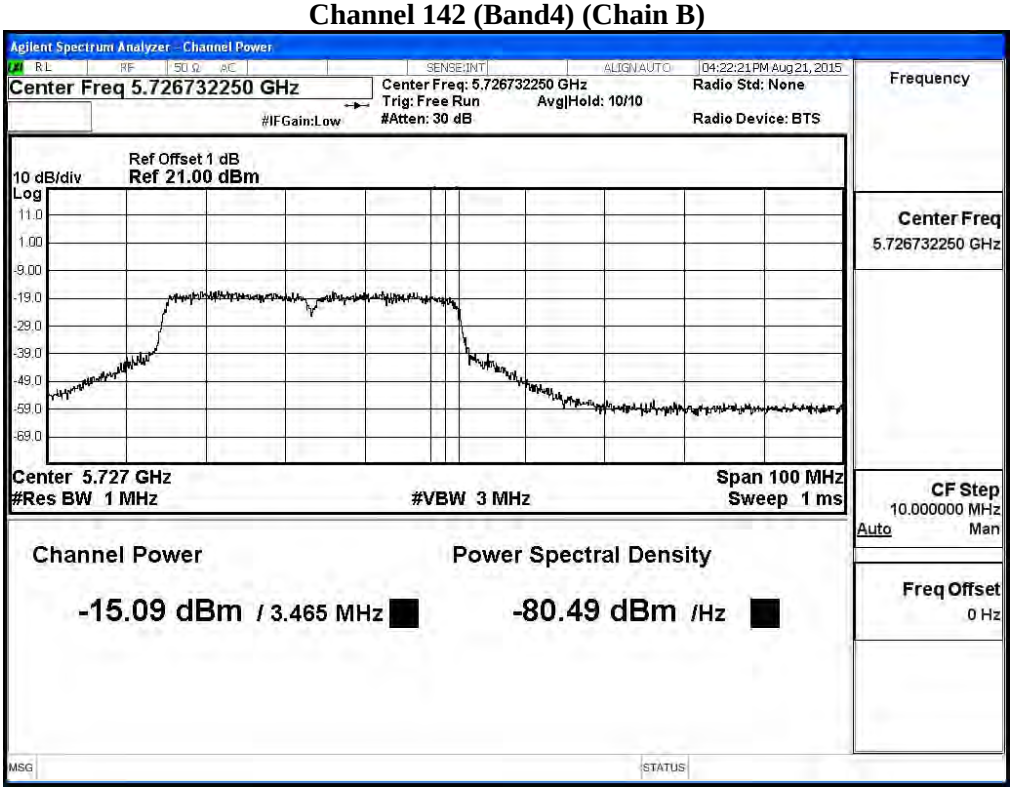
Channel 142 (Band4) (Chain A)



Channel 142 (Band3) (Chain B)



Channel 142 (Band4) (Chain B)



Product : 802.11 ac PCIe Module
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 24: Transmit (802.11ac-80BW-65Mbps)(Panel Antenna)

Chain A

Cable loss=1dB		Maximum conducted output power									
Channel No	Frequency (MHz)	Data Rate (Mbps)									
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9
58	5290	-3.52	-3.6	-3.67	-3.74	-3.87	-3.93	-4.05	-4.13	-4.24	-4.31
106	5530	-2.85	-2.94	-3.01	-3.11	-3.19	-3.24	-3.35	-3.43	-3.52	-3.61
122	5610	-3.46	-3.54	-3.66	-3.75	-3.83	-3.87	-3.98	-4.12	-4.18	-4.29
138(Band3)	5690	-4.09	-4.16	-4.25	-4.31	-4.41	-4.48	-4.56	-4.68	-4.76	-4.87
138(Band4)	5690	-19.27	-20.54	-20.61	-20.7	-20.78	-20.95	-21.05	-21.11	-21.17	-21.23

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1dB		Maximum conducted output power									
Channel No	Frequency (MHz)	Data Rate (Mbps)									
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9
58	5290	-5.37	-5.45	-5.53	-5.62	-5.71	-5.79	-5.86	-5.93	-6.04	-6.11
106	5530	-8.08	-8.16	-8.23	-8.33	-8.42	-8.5	-8.54	-8.71	-8.77	-8.84
122	5610	-5.46	-5.54	-5.66	-5.75	-5.83	-5.87	-5.98	-6.12	-6.18	-6.29
138(Band3)	5690	-4.36	-4.44	-4.51	-4.62	-4.71	-4.77	-4.85	-4.91	-5.03	-5.12
138(Band4)	5690	-17.66	-17.67	-17.7	-17.77	-17.86	-17.95	-18.03	-18.1	-18.22	-18.33

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:
CHAIN A+B

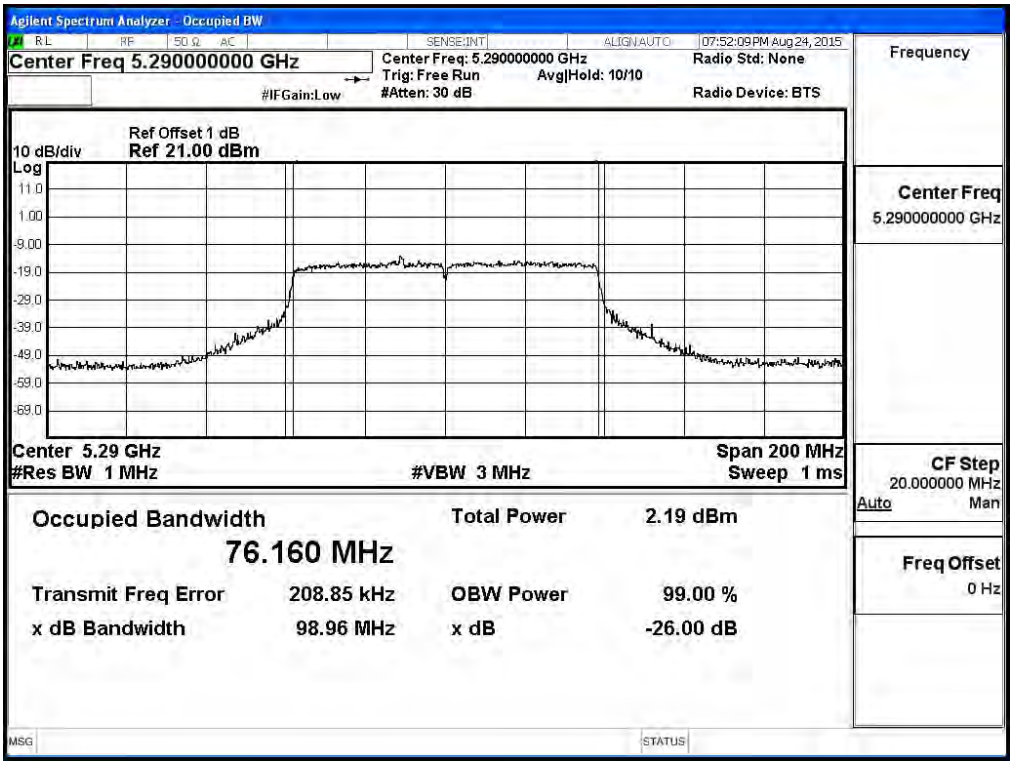
Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit		Result
						(dBm)	dBm+10log(BW)	
58	5290	76.160	-3.52	-5.37	-1.34	0	29.82	Pass
106	5530	75.910	-2.85	-8.08	-1.71	0	29.80	Pass
122	5610	76.074	-3.46	-5.46	-1.34	0	29.81	Pass
138(Band3)	5690	73.105	-4.09	-4.36	-1.21	0	29.64	Pass
138(Band4)	5690	3.105	-19.27	-17.66	-15.38	30	21.92	Pass

Note:

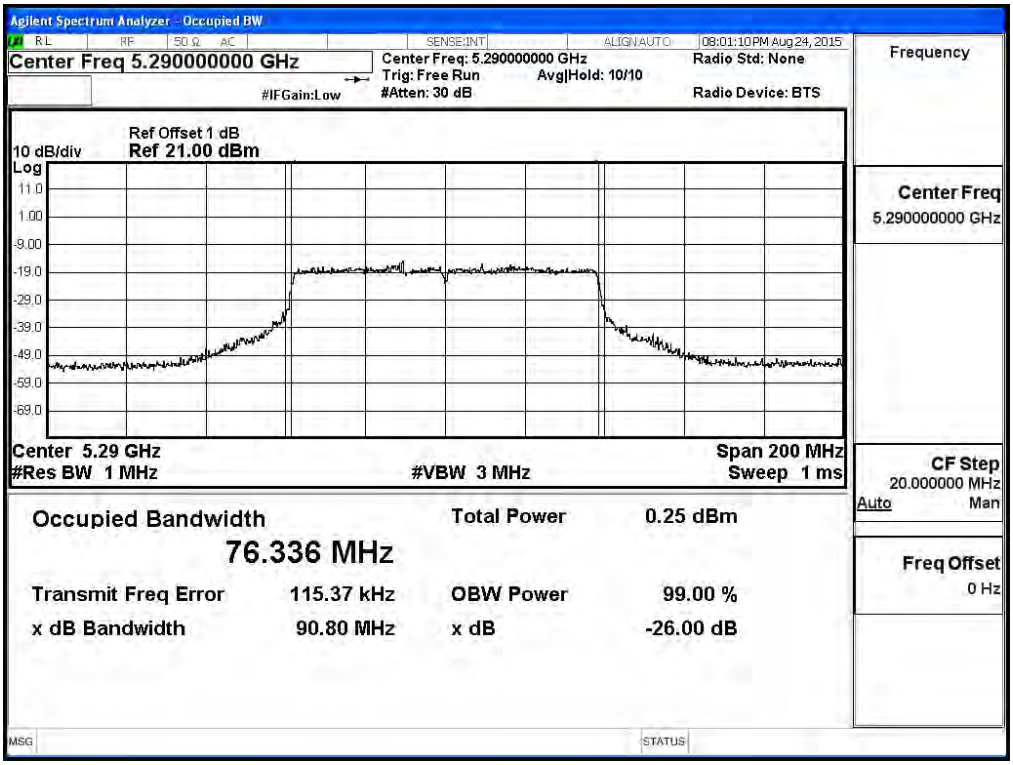
1. Power Output Value =Reading value on average power meter + cable loss.
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)).
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

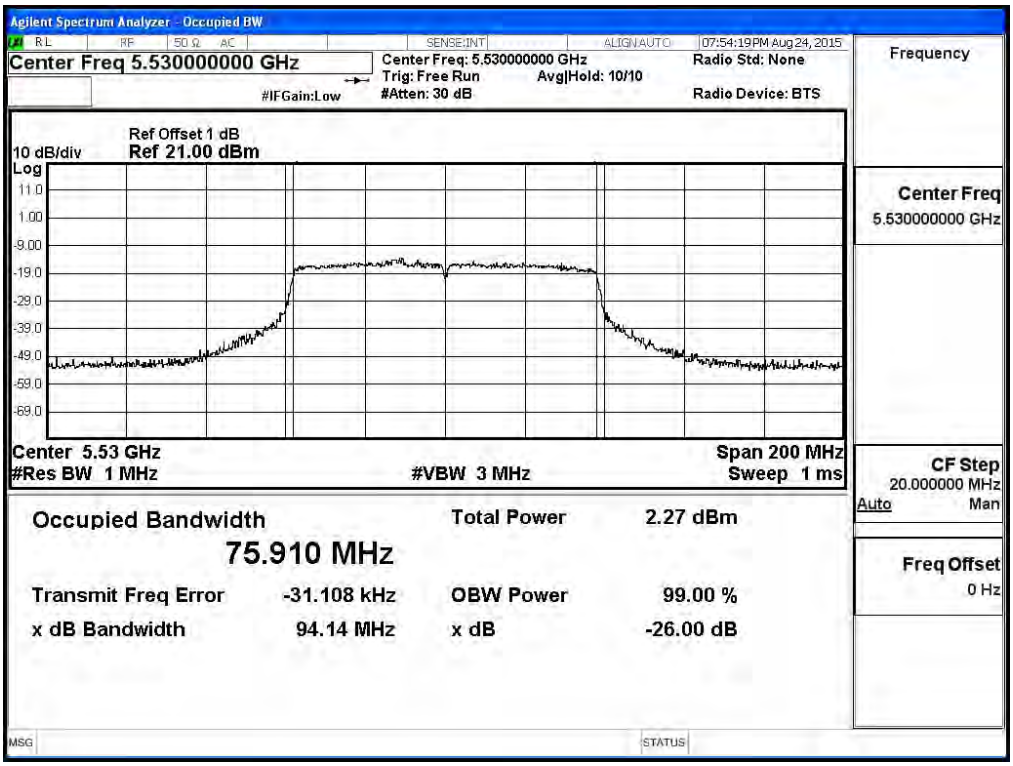
Channel 58: Chain A



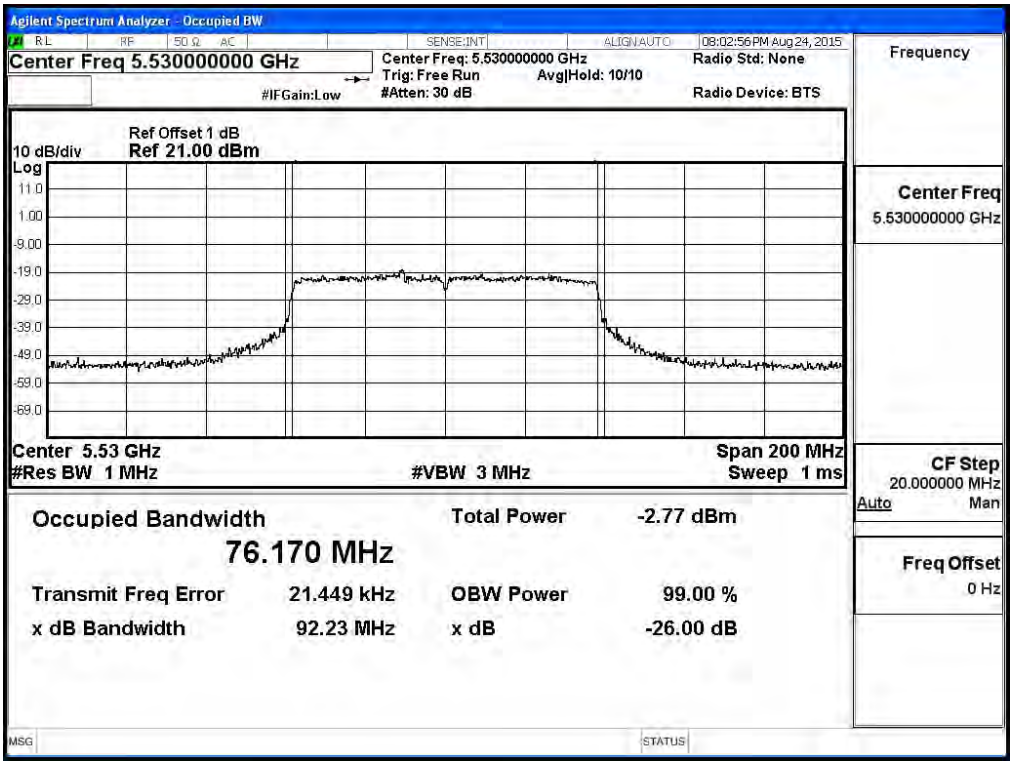
Channel 58: Chain B



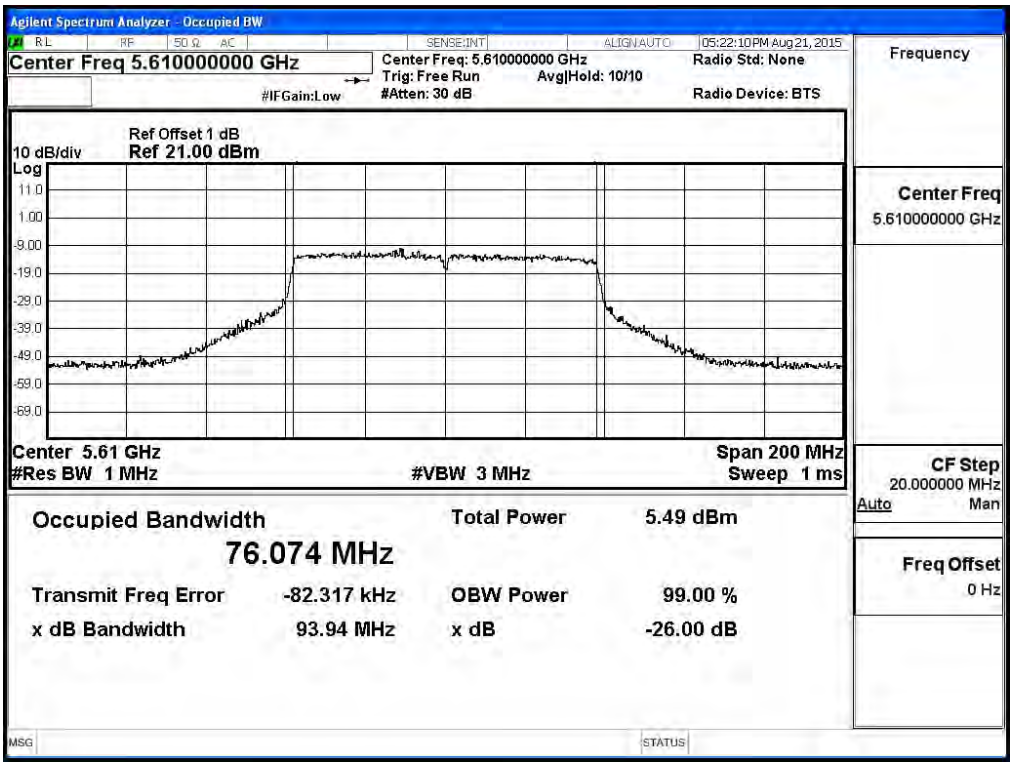
Channel 106: Chain A



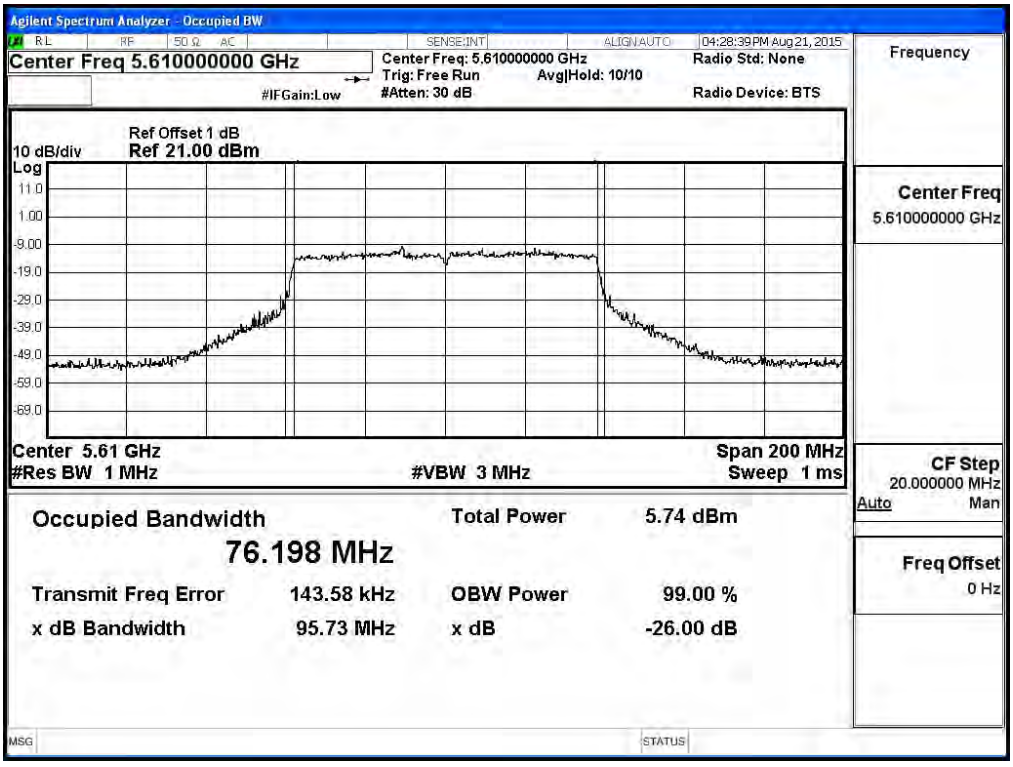
Channel 106: Chain B



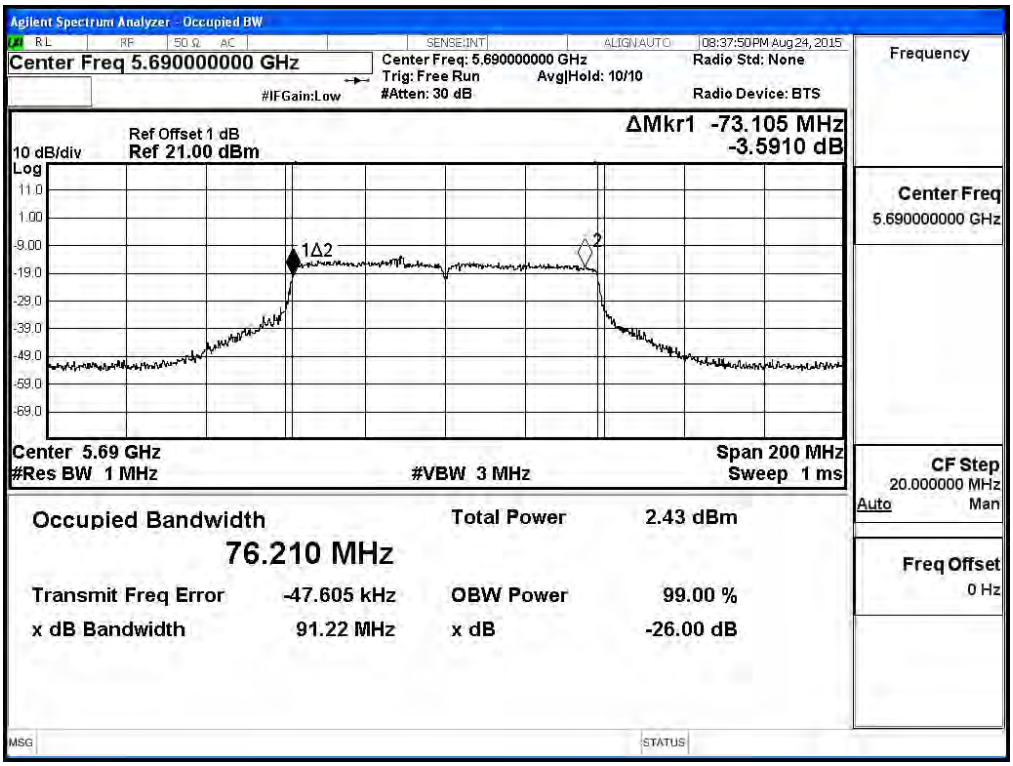
Channel 122: Chain A



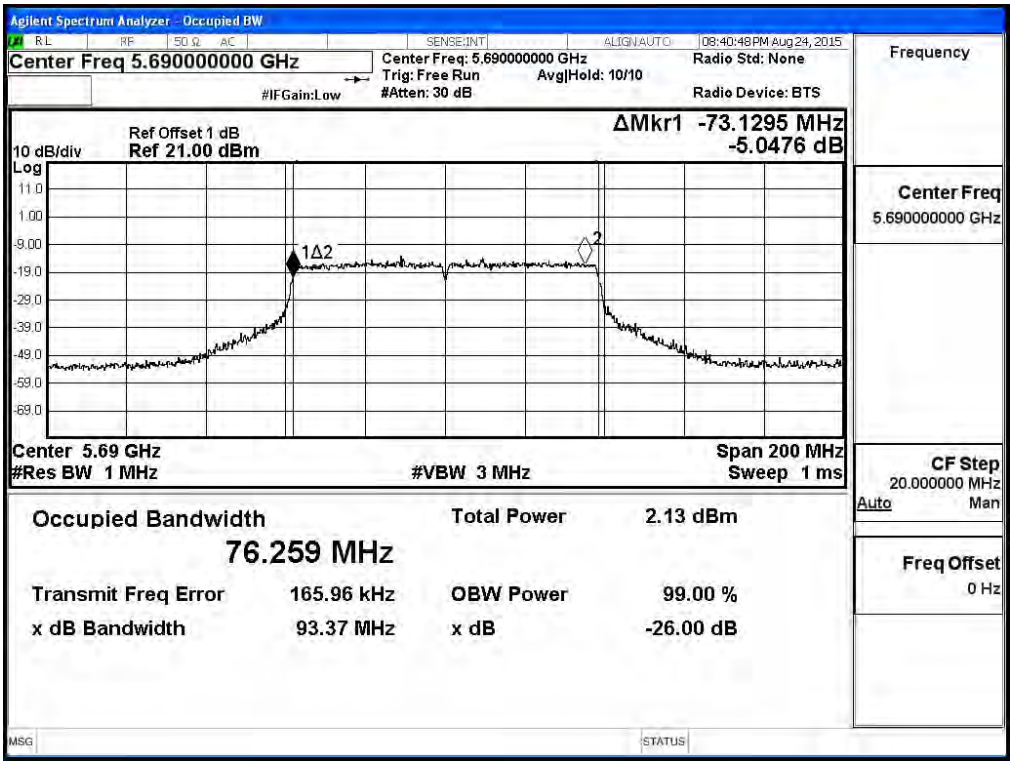
Channel 122: Chain B



Channel 138: Chain A

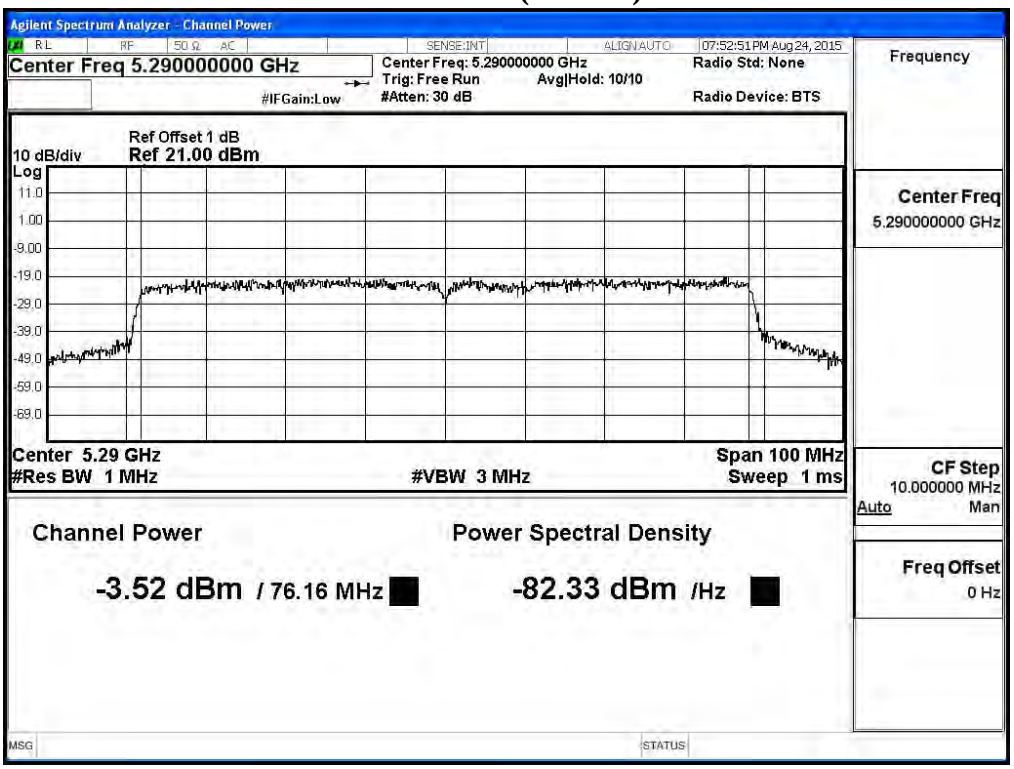


Channel 138: Chain B

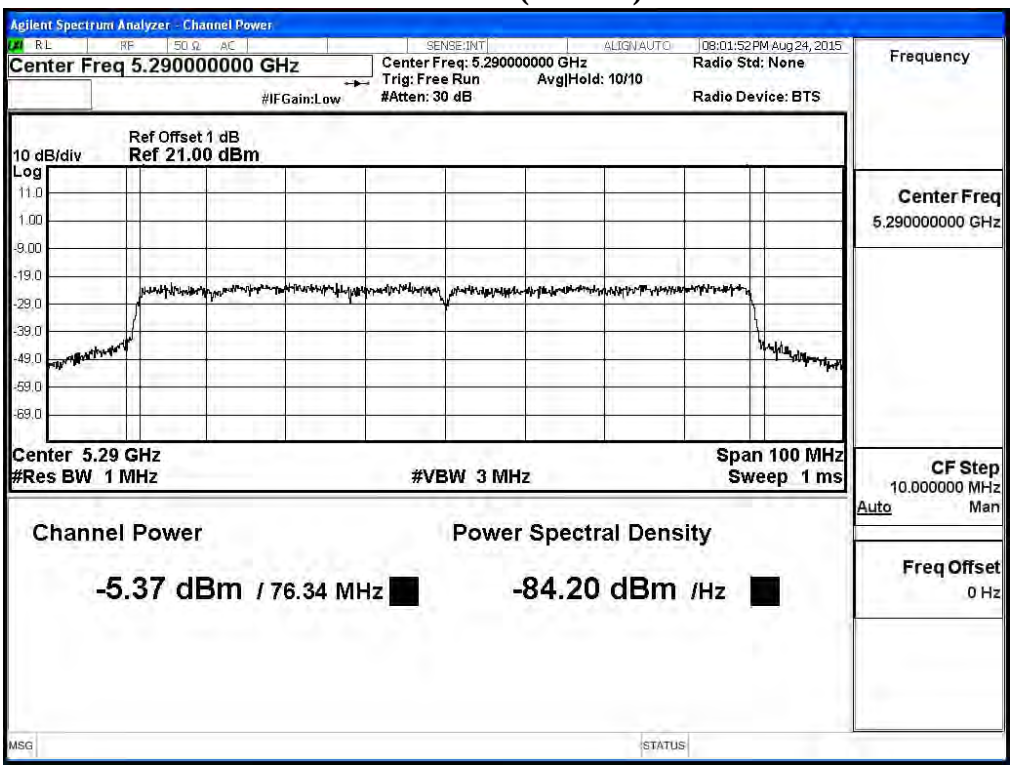


Maximum conducted output power:

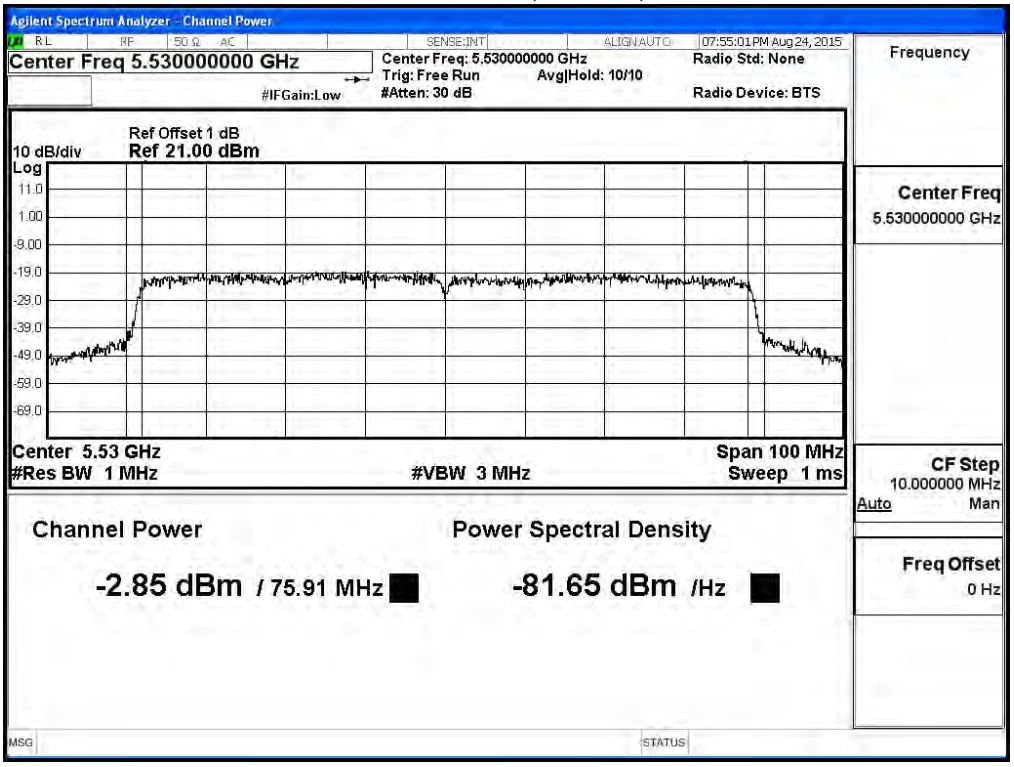
Channel 58 (Chain A)



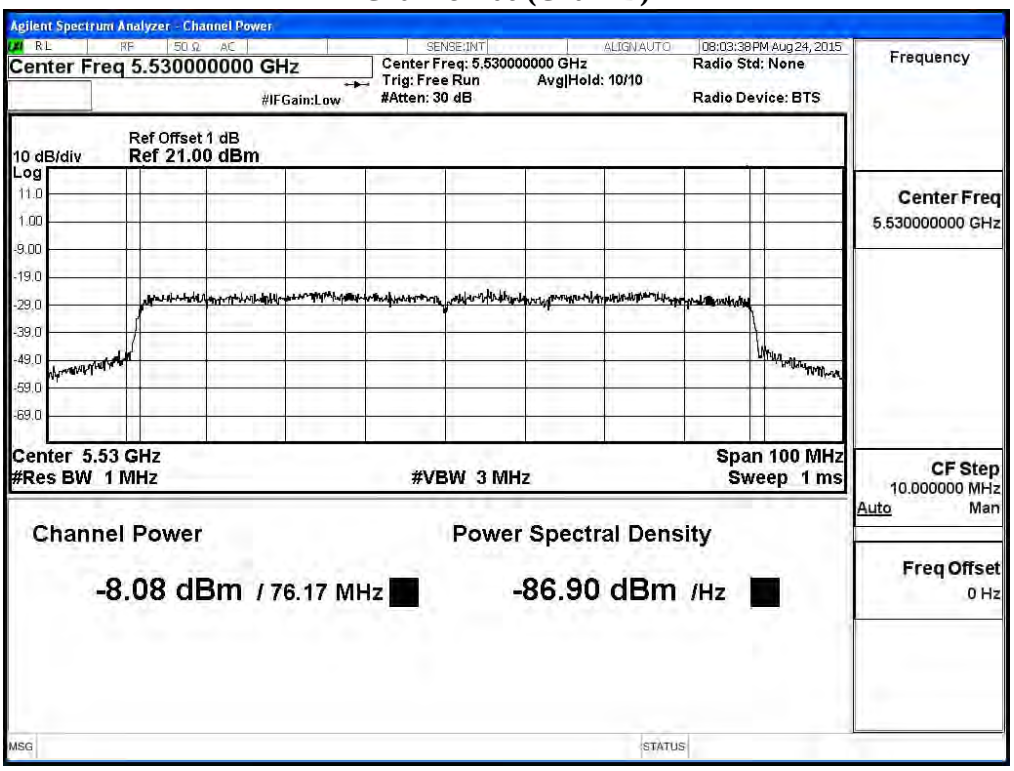
Channel 58 (Chain B)



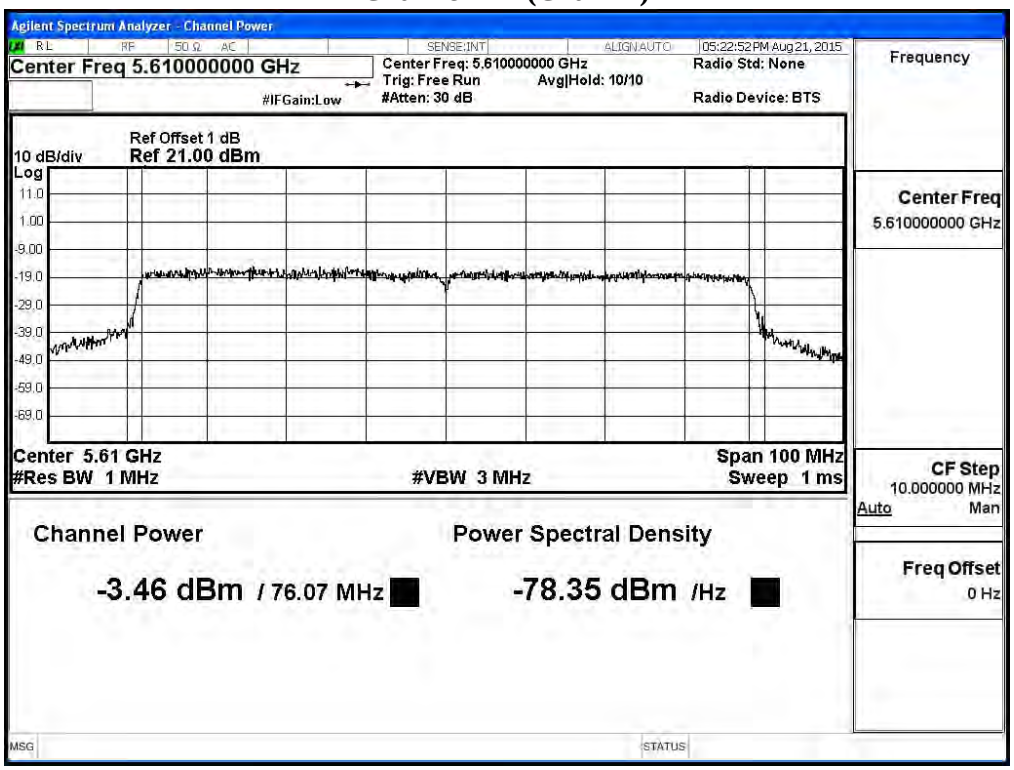
Channel 106 (Chain A)



Channel 106 (Chain B)



Channel 122 (Chain A)



Channel 122 (Chain B)