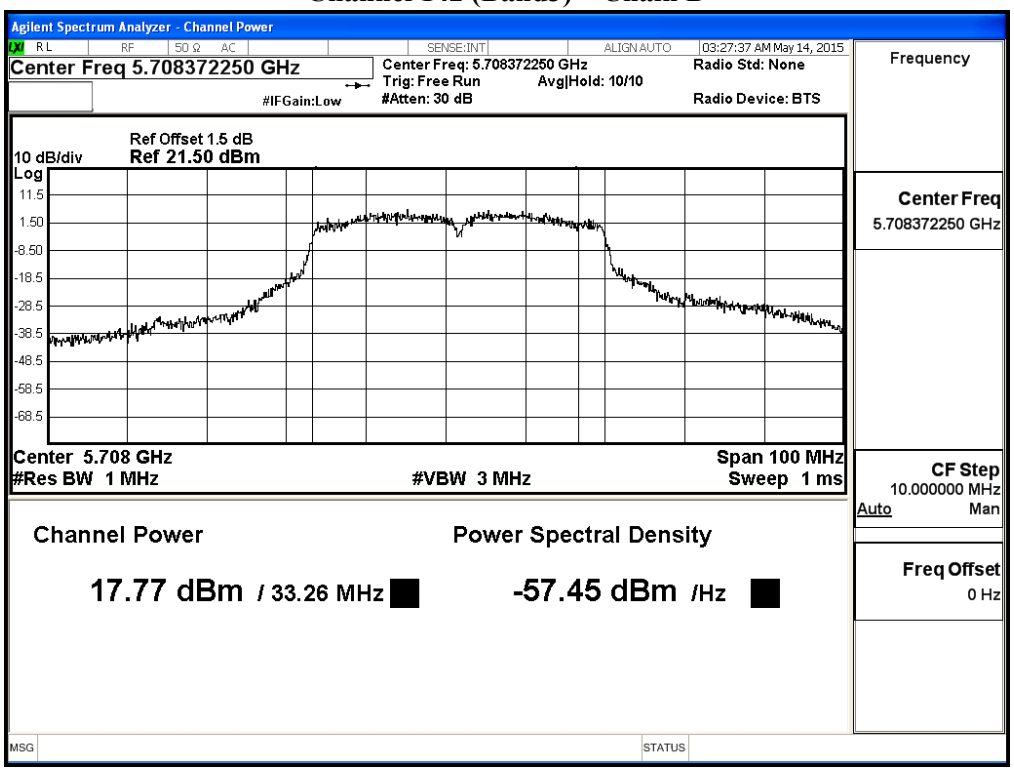
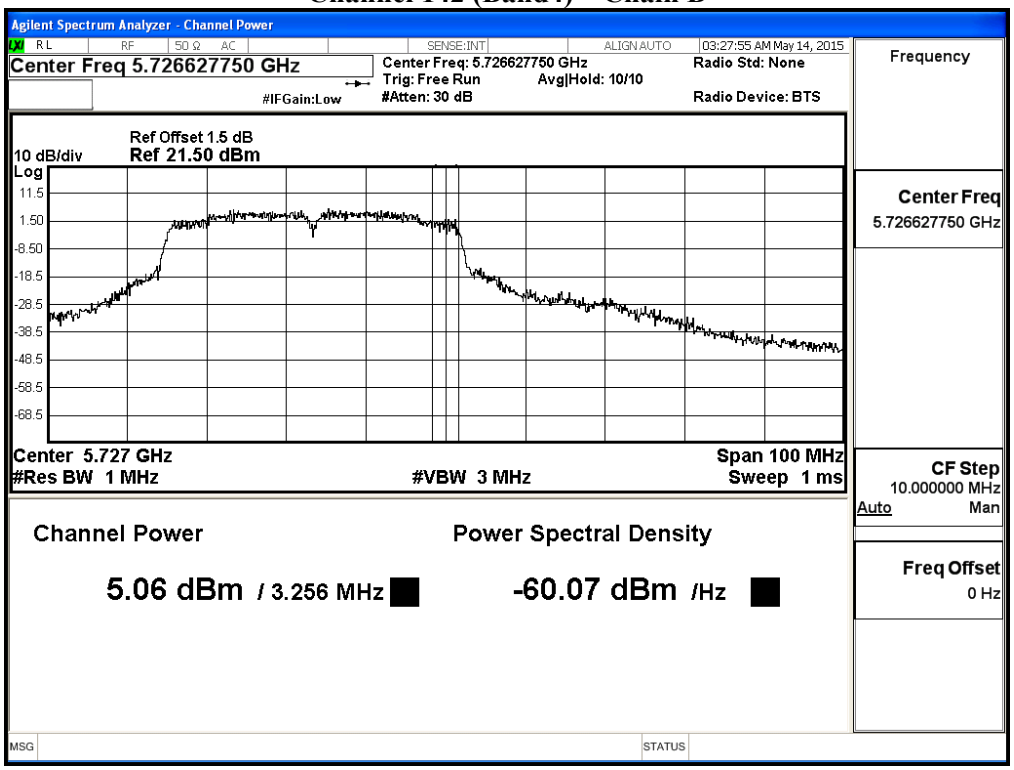
Maximum conducted output power:

Channel 142 (Band3) – Chain B



Channel 142 (Band4) – Chain B



Product : Intel® Dual Band Wireless-AC 8260
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11ac-80BW-65Mbps)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	13.09	12.93	12.77	12.61	12.45	12.29	12.13	11.97	11.81	11.65	<30dBm
58	5290	13.2	13.09	12.98	12.87	12.76	12.65	12.54	12.43	12.32	12.21	<24dBm
106	5530	13.06	12.97	12.85	12.71	12.59	12.43	12.36	12.27	12.1	12.05	<24dBm
122	5610	18.59	18.48	18.37	18.26	18.15	18.04	17.93	17.82	17.71	17.6	<24dBm
138(Band3)	5690	17.67	17.41	17.34	17.2	17.11	17.02	16.93	16.87	16.72	16.63	<24dBm
138(Band4)	5690	0.34	0.16	-0.16	-0.28	-0.46	-0.58	-0.61	-0.81	-0.96	-1.05	<30dBm

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)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	13.38	13.32	13.26	13.2	13.14	13.08	13.02	12.96	12.9	12.84	<30dBm
58	5290	13.38	13.26	13.14	13.02	12.9	12.78	12.66	12.54	12.42	12.3	<24dBm
106	5530	13.24	13.17	13.08	12.93	12.74	12.66	12.56	12.43	12.32	12.27	<24dBm
122	5610	18.73	18.68	18.63	18.58	18.53	18.48	18.43	18.38	18.33	18.28	<24dBm
138(Band3)	5690	17.38	17.21	17.11	17.06	16.91	16.75	16.63	16.55	16.48	16.32	<24dBm
138(Band4)	5690	0.59	0.36	0.21	0.08	-0.17	-0.35	-0.47	-0.51	-0.68	-0.84	<30dBm

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

Maximum conducted output power Measurement

(CHAIN A+ B)

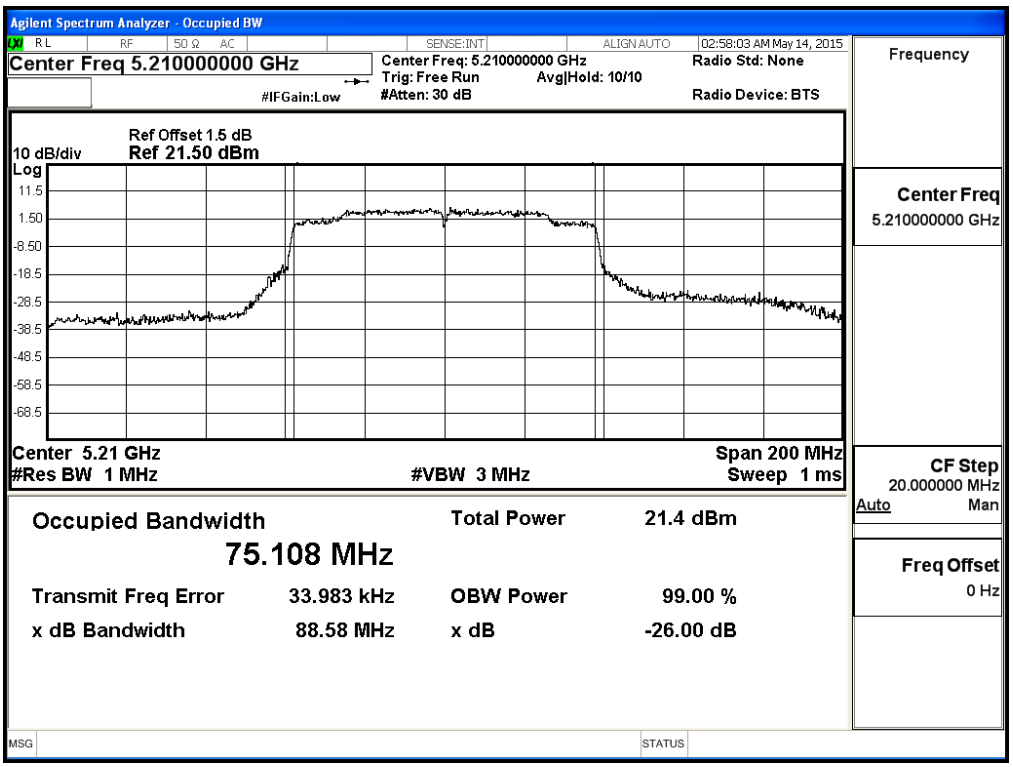
Channel Number	Frequency (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit	
							(dBm)	dBm+10log(BW)
42	5210	75.108	13.09	13.38	0.283	16.531	24	29.76
58	5290	74.248	13.20	13.38	0.283	16.584	24	29.71
106	5530	74.967	13.06	13.24	0.283	16.444	24	29.75
122	5610	75.437	18.59	18.73	0.283	21.954	24	29.78
138(Band3)	5690	72.832	17.67	17.38	0.283	20.821	24	29.62
138(Band4)	5690	2.832	0.34	0.59	0.283	3.760	30	21.52

Note:

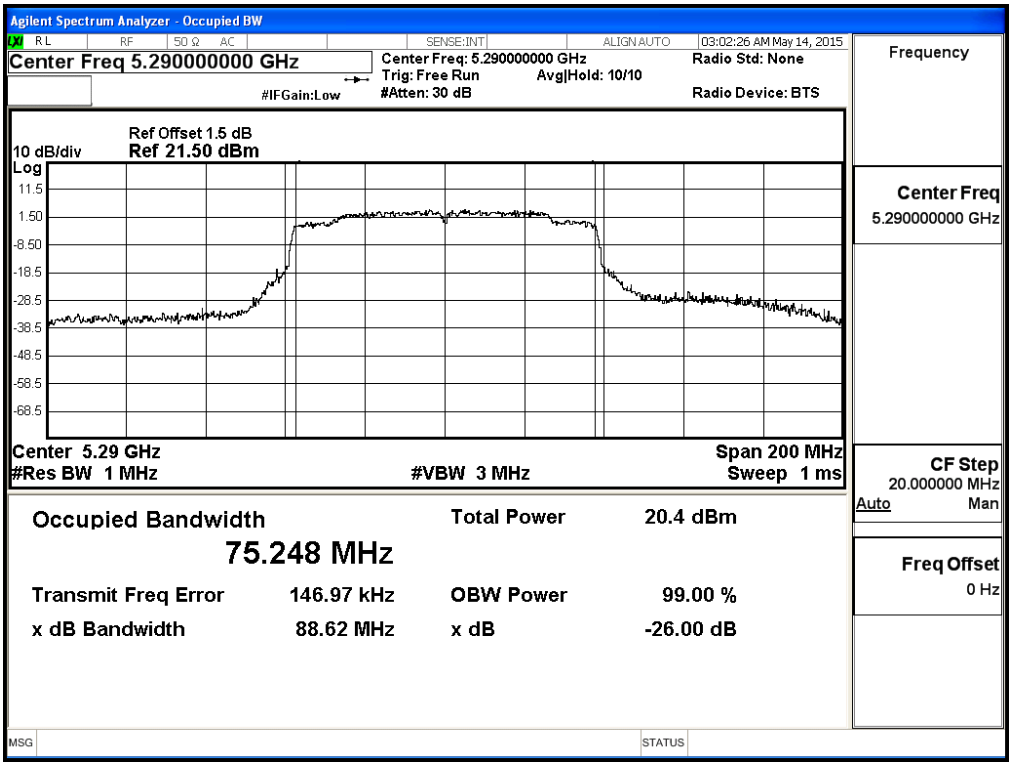
1. Total Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)) + Duty Factor.
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

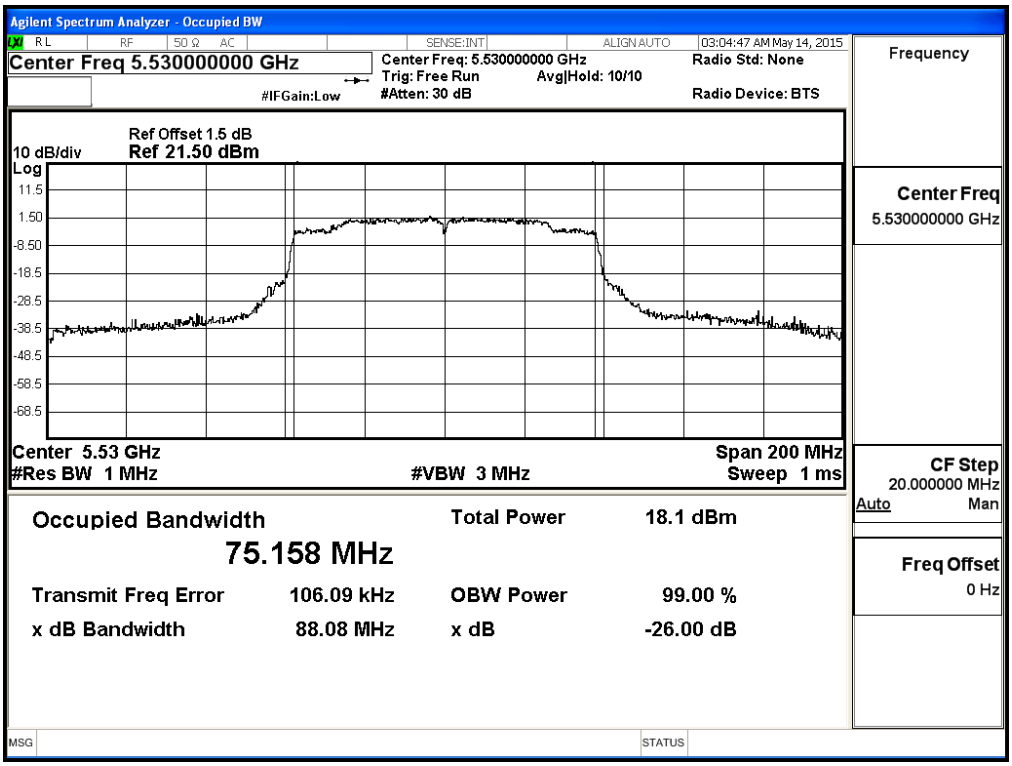
Channel 42 – Chain A



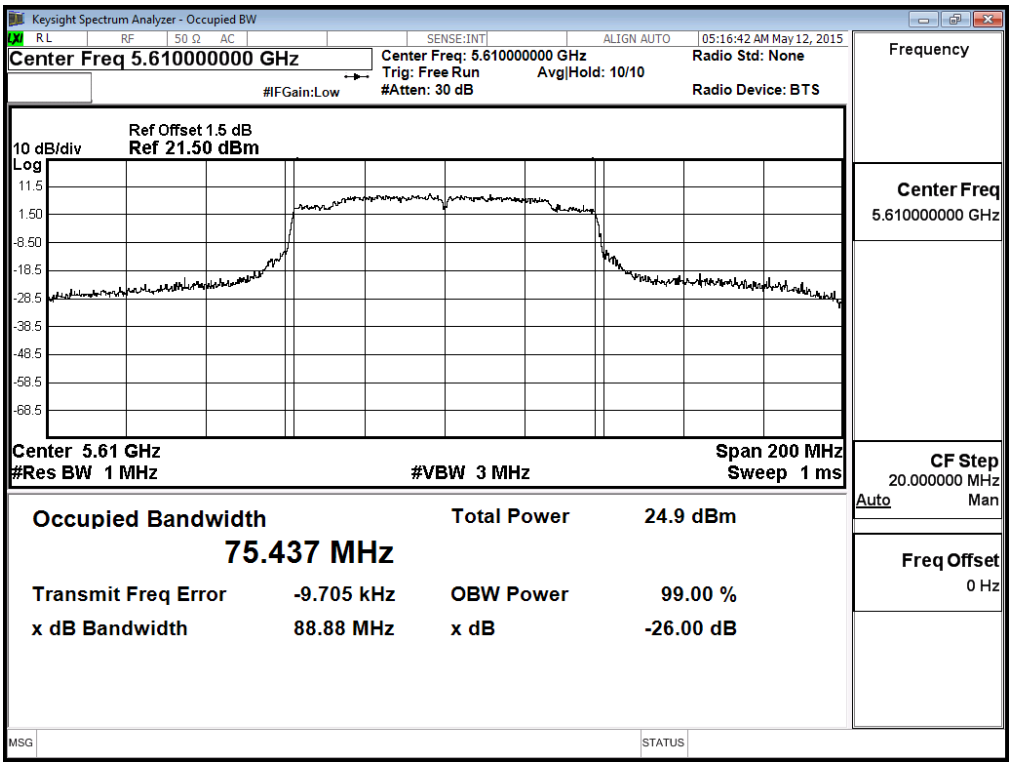
Channel 58 – Chain A



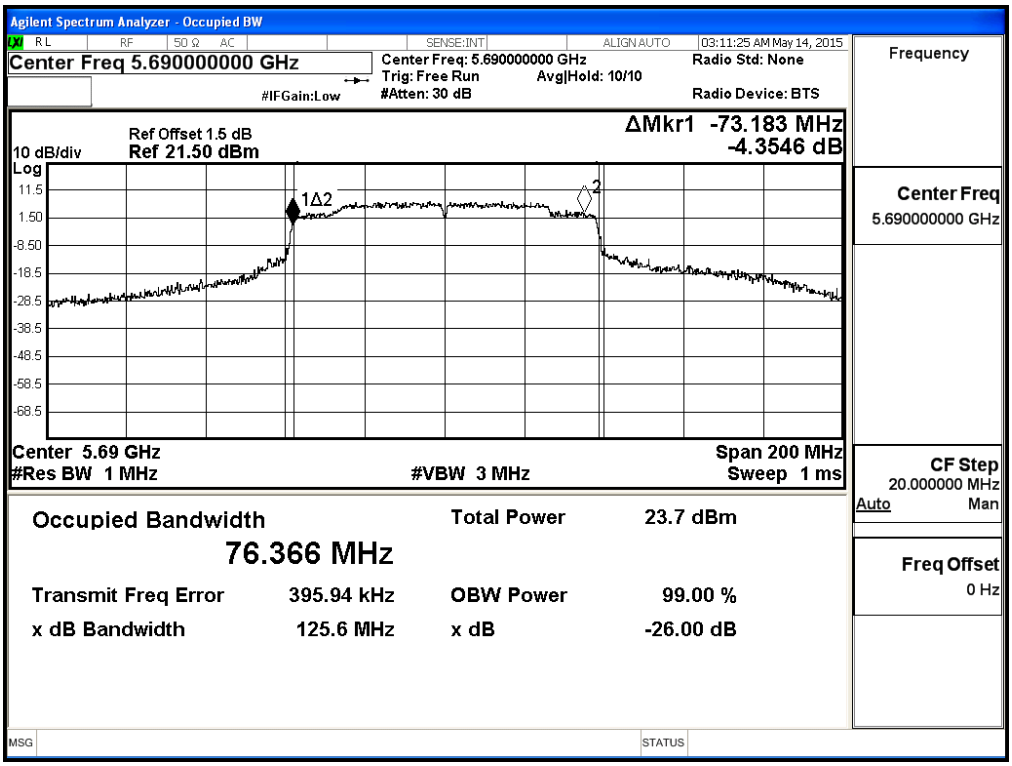
Channel 106 – Chain A



Channel 122 – Chain A

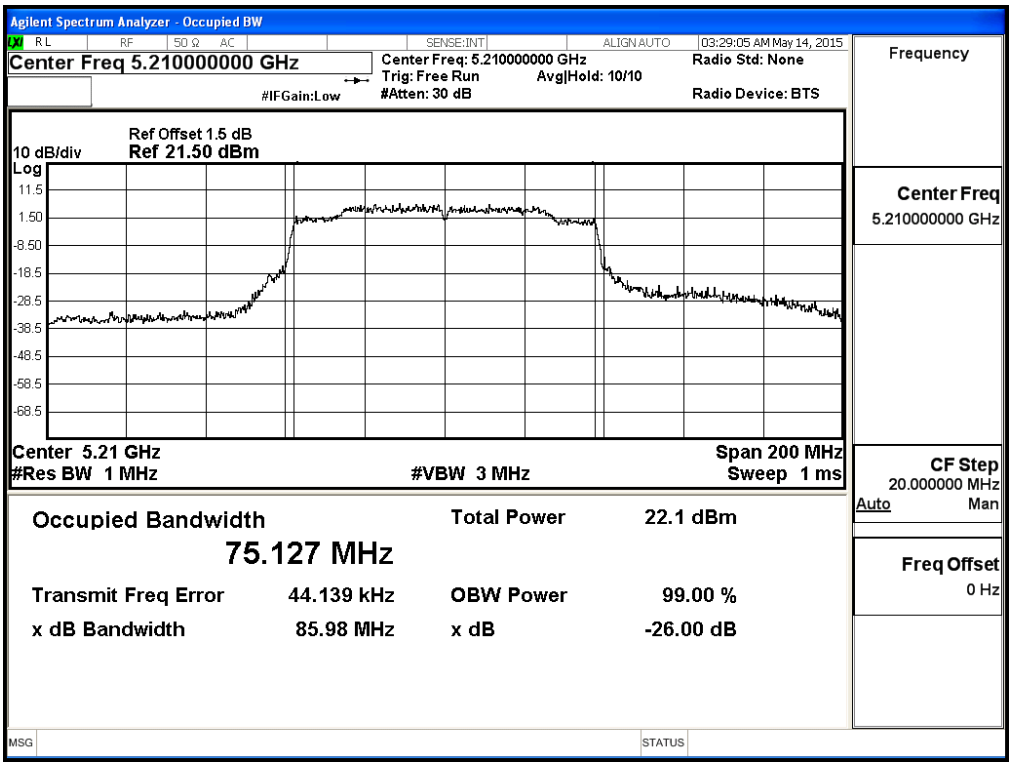


Channel 138 – Chain A

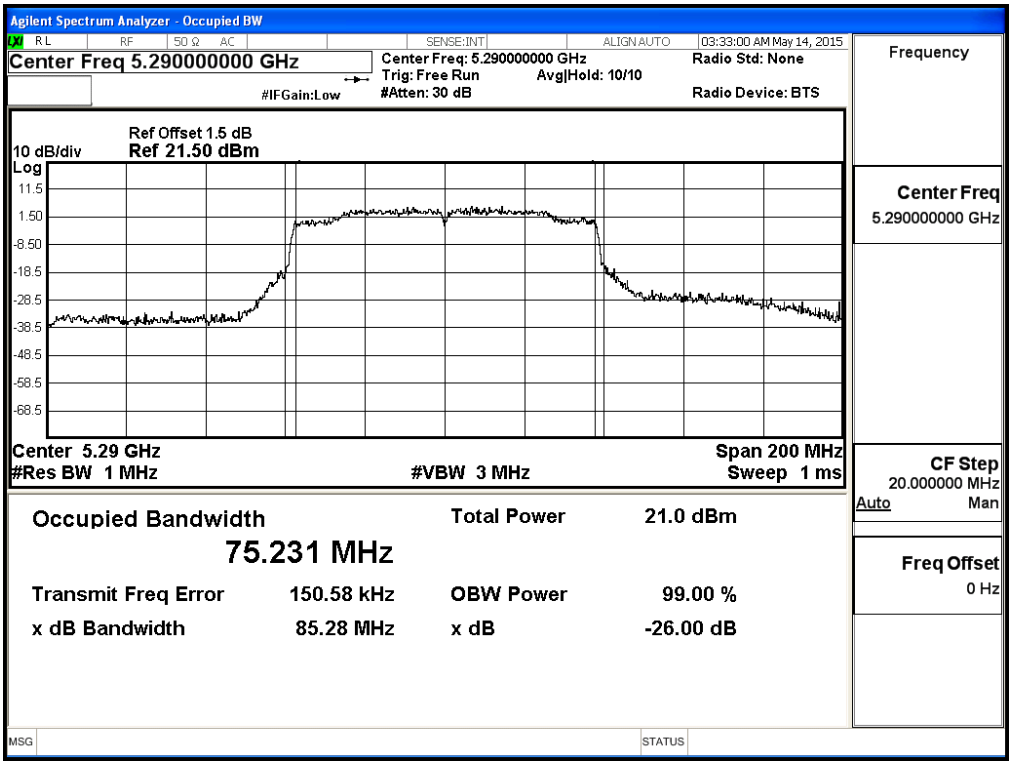


99% Occupied Bandwidth:

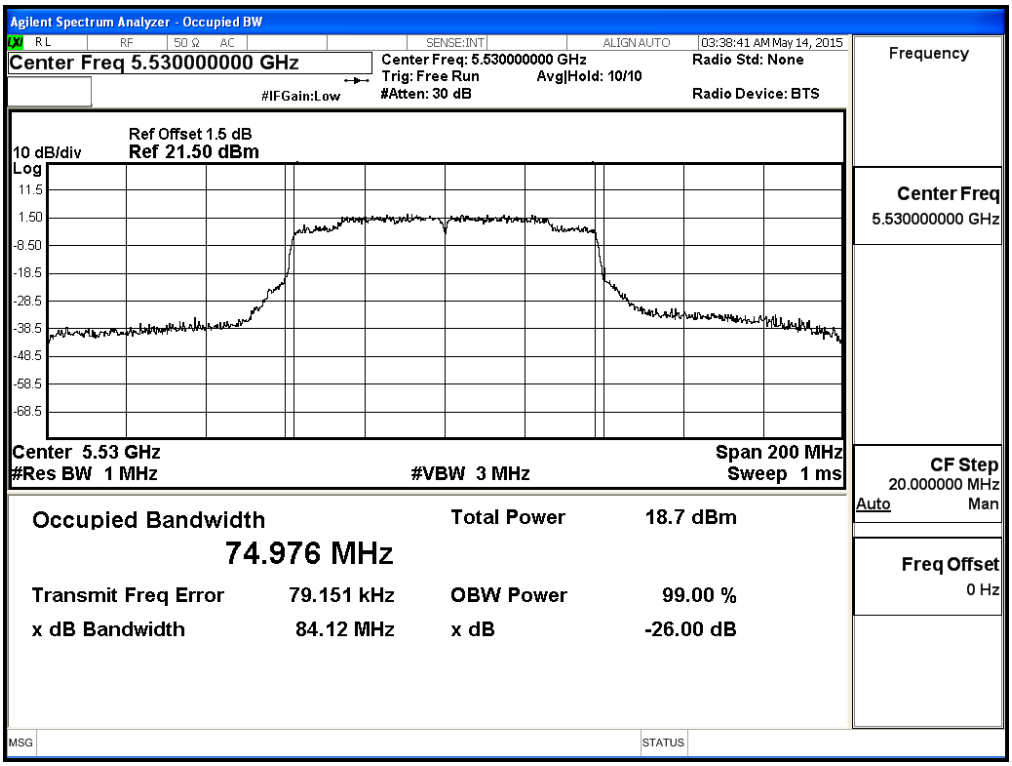
Channel 42 – Chain B



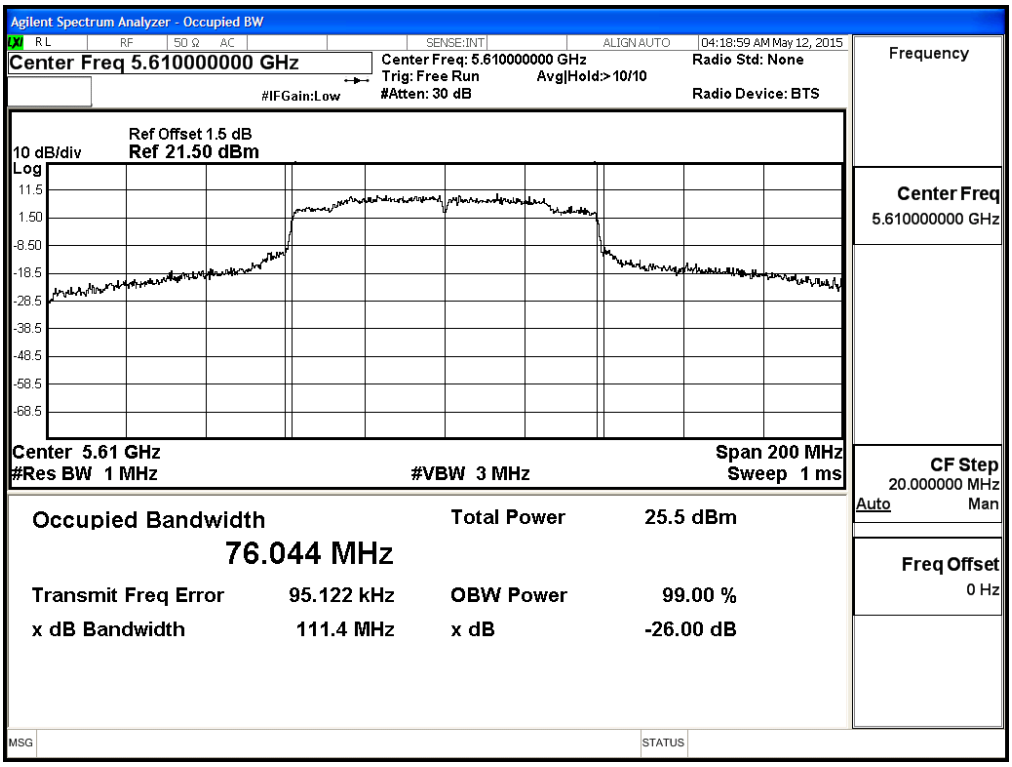
Channel 58 – Chain B



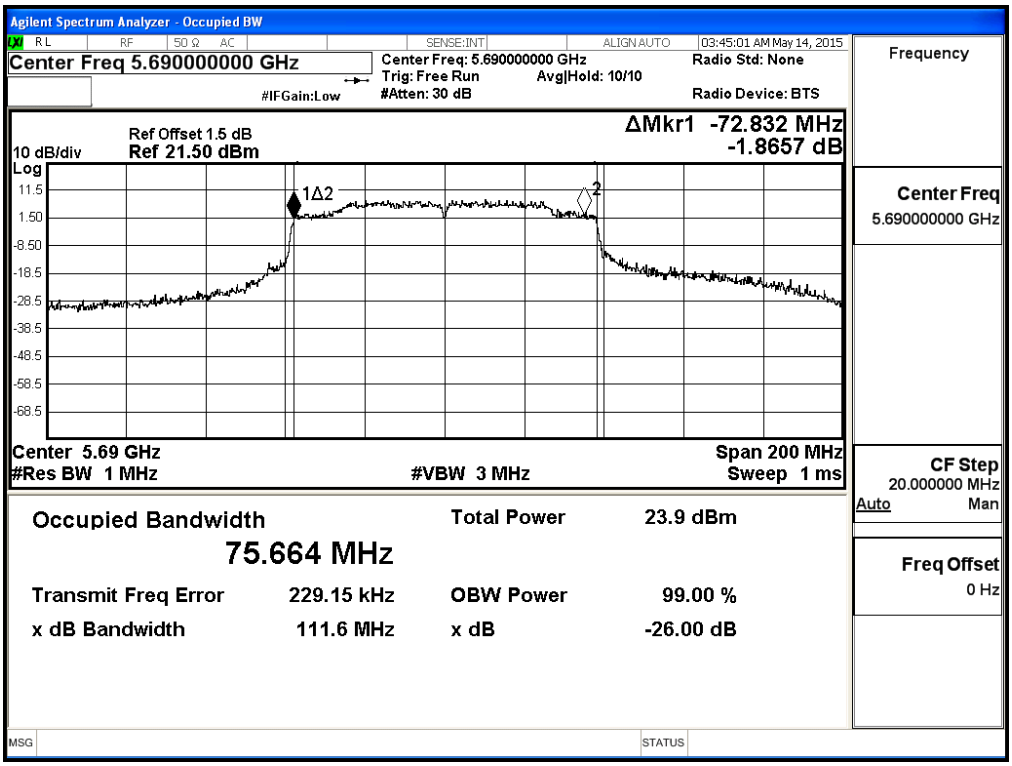
Channel 106 – Chain B



Channel 122 – Chain B

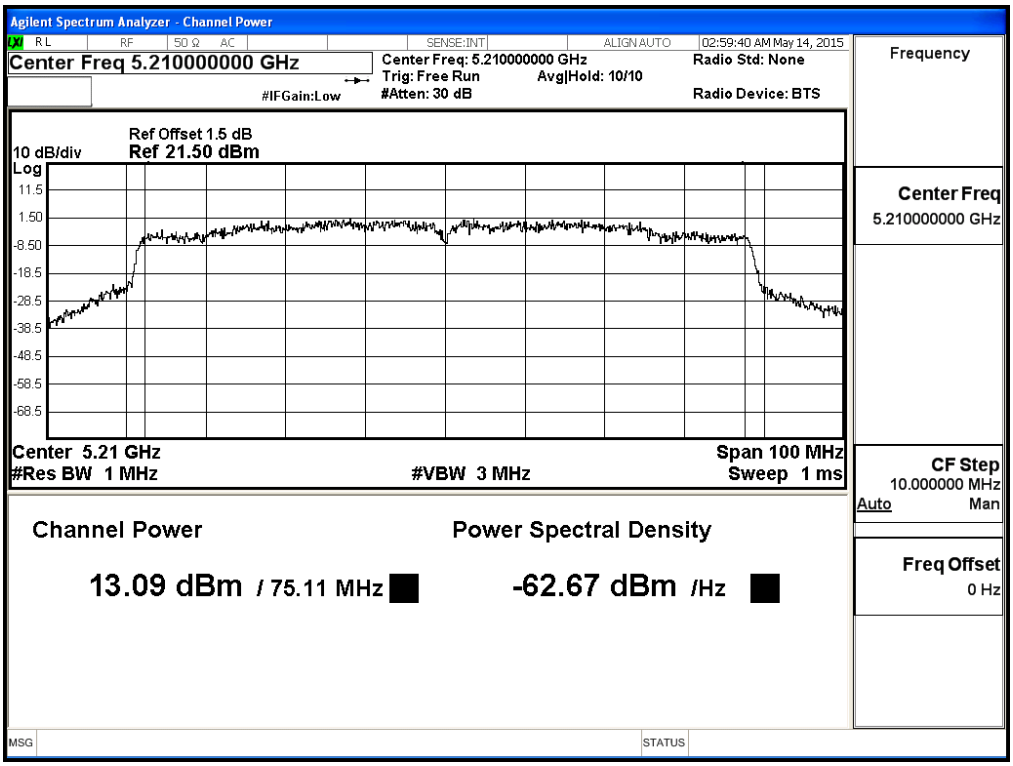


Channel 138 – Chain B



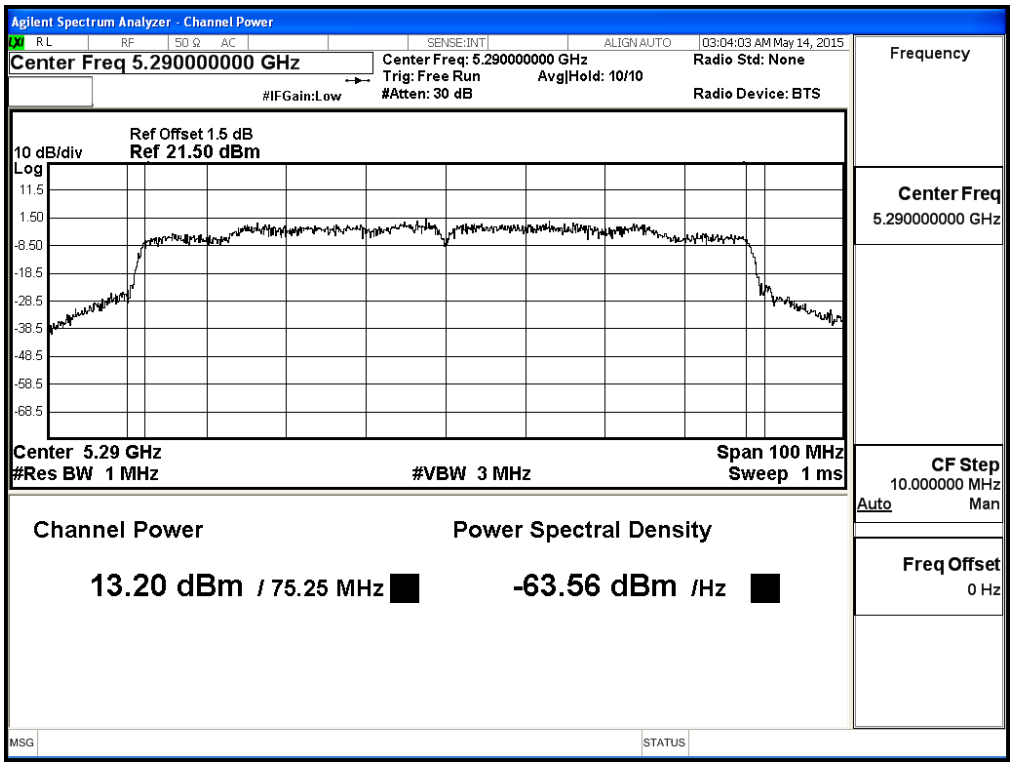
Maximum conducted output power:

Channel 42 – Chain A



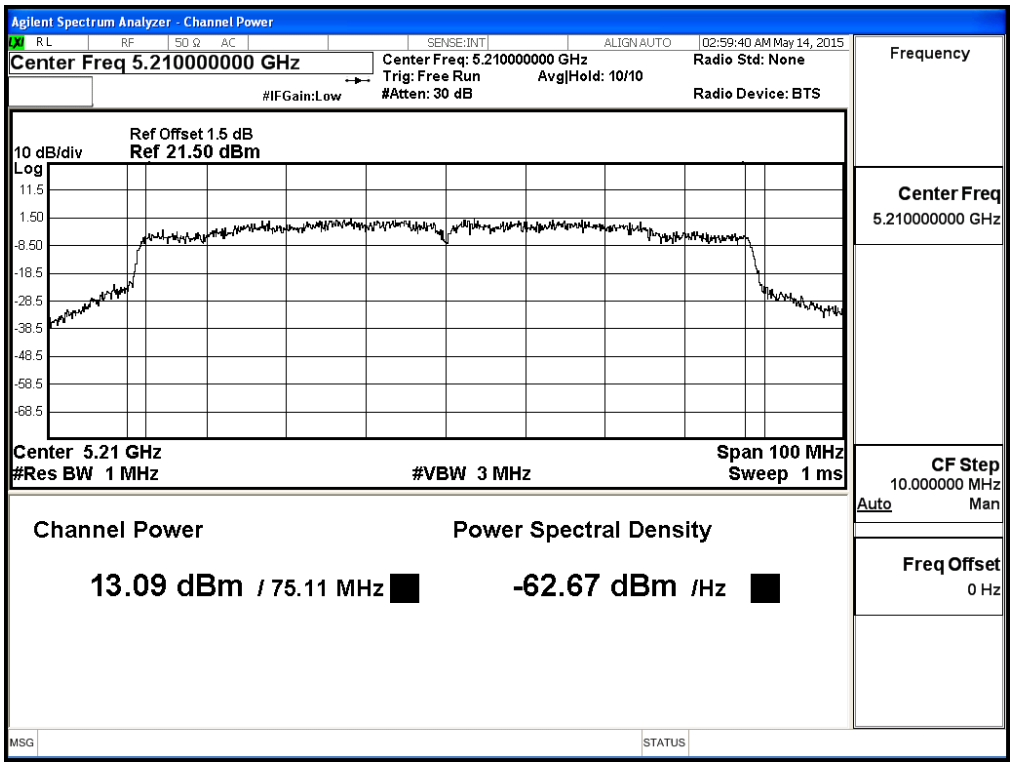
Maximum conducted output power:

Channel 58 – Chain A



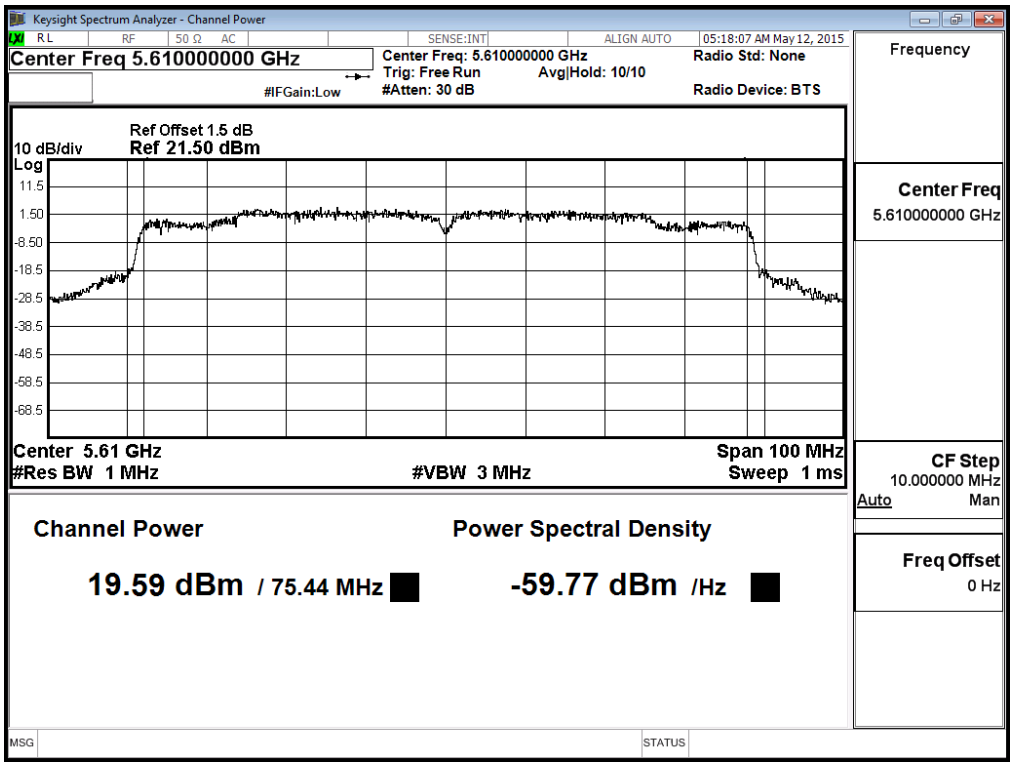
Maximum conducted output power:

Channel 106 – Chain A



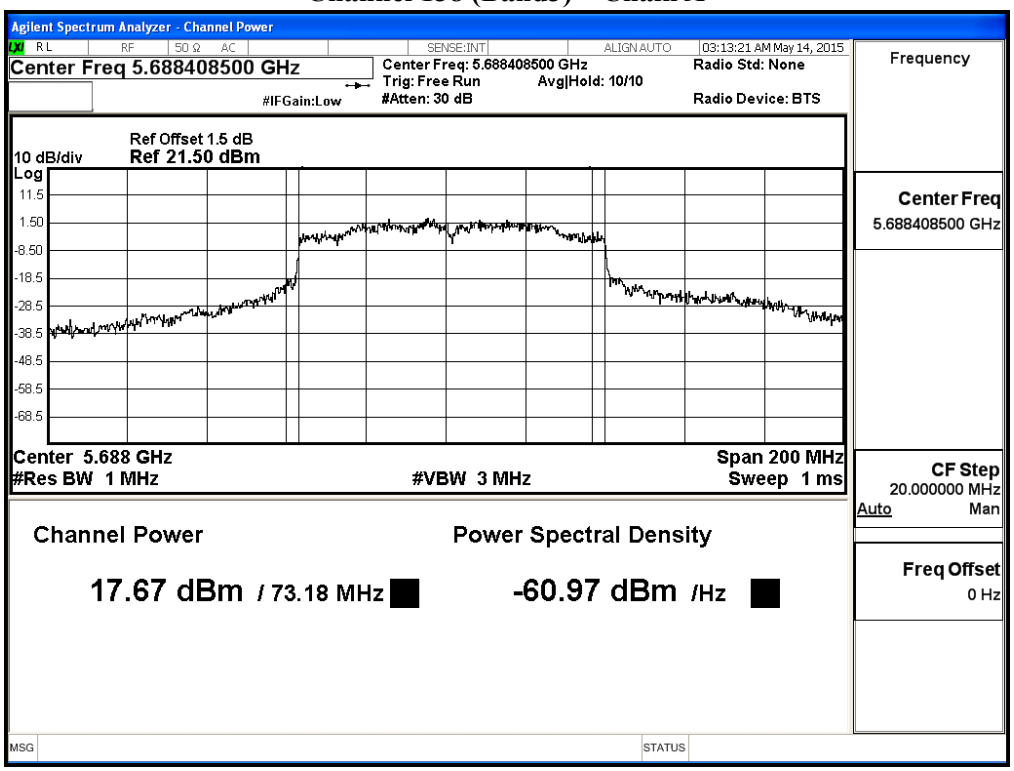
Maximum conducted output power:

Channel 122 – Chain A



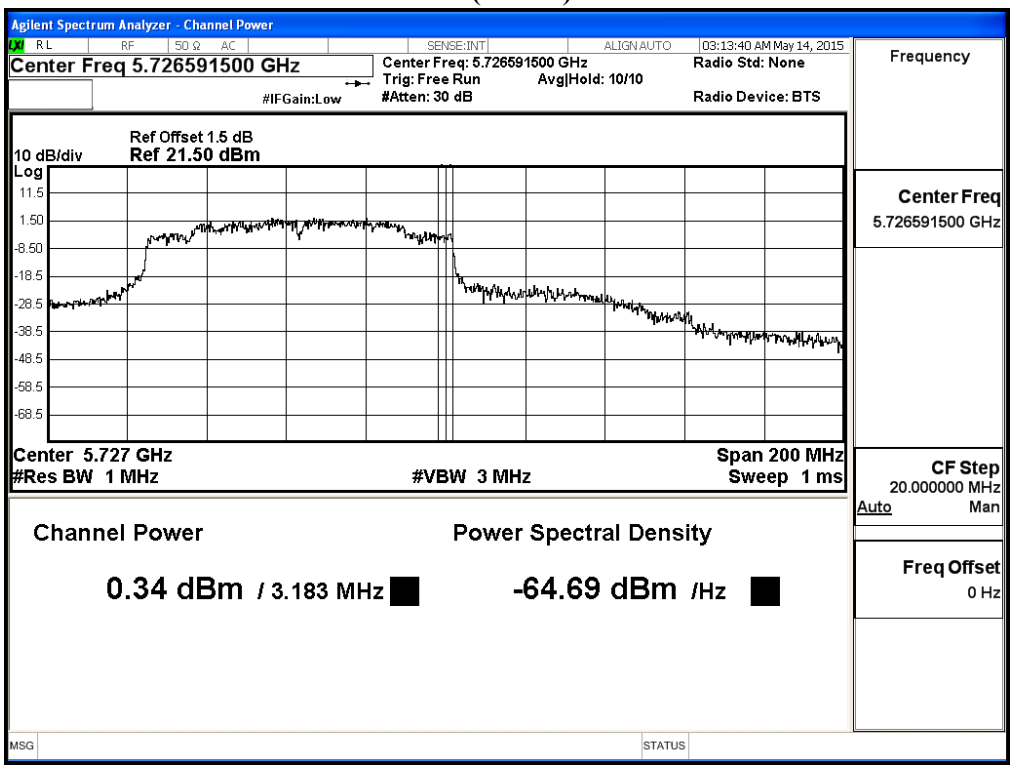
Maximum conducted output power:

Channel 138 (Band3) – Chain A



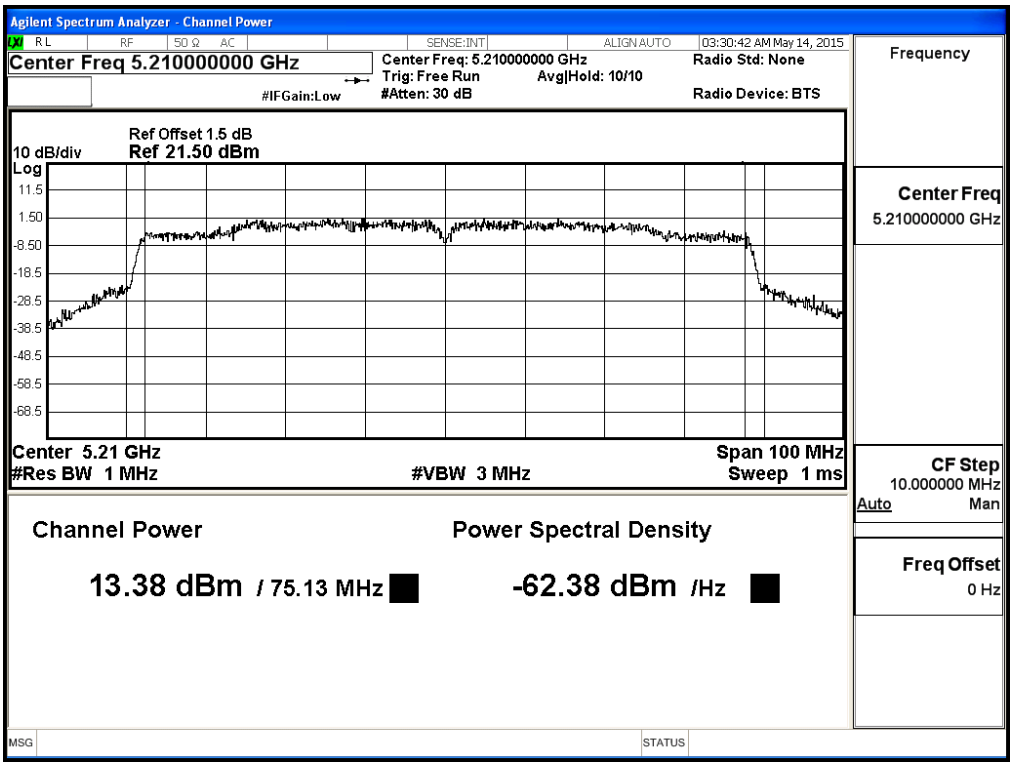
Maximum conducted output power:

Channel 138 (Band4) – Chain A



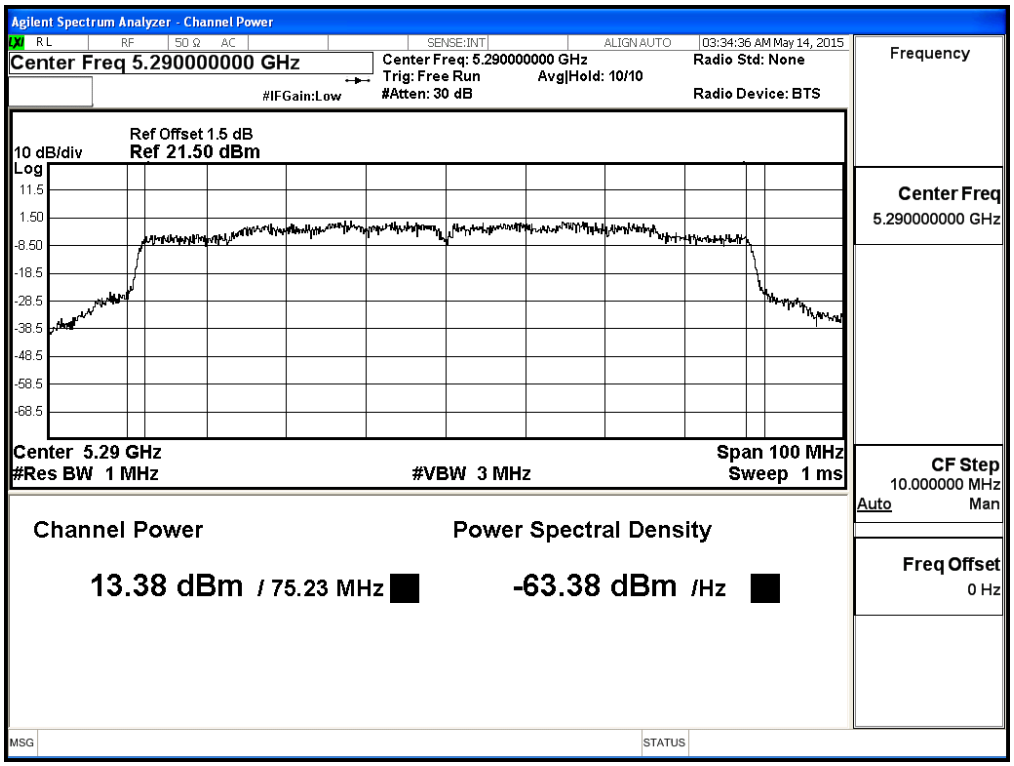
Maximum conducted output power:

Channel 42 – Chain B



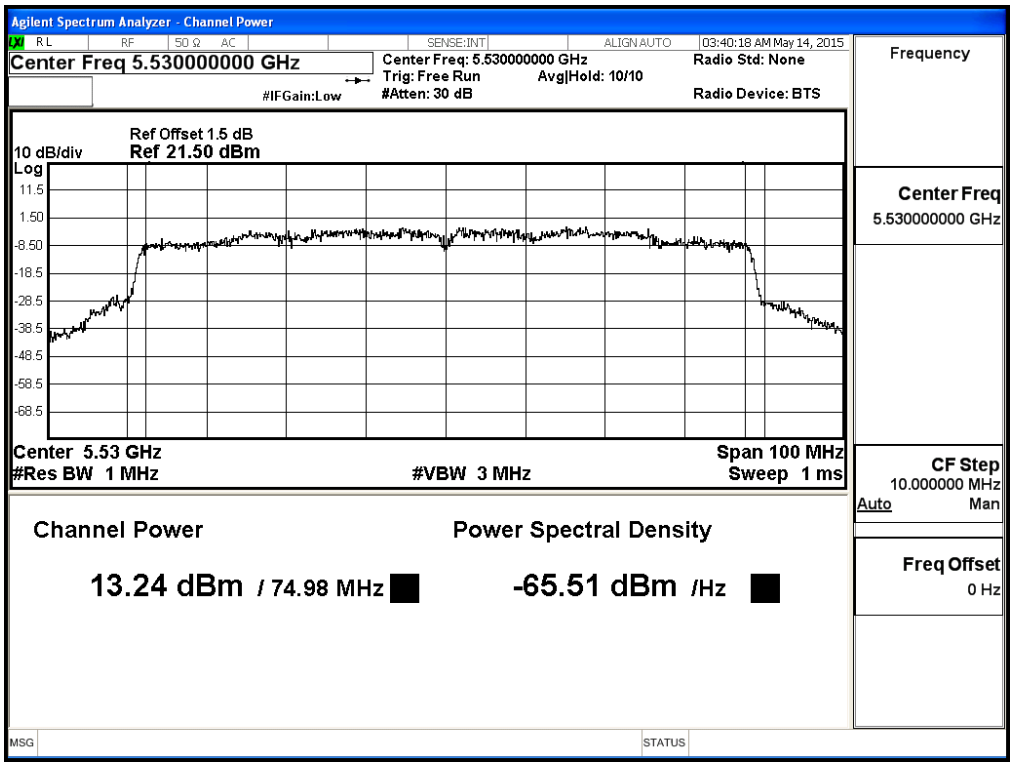
Maximum conducted output power:

Channel 58 – Chain B



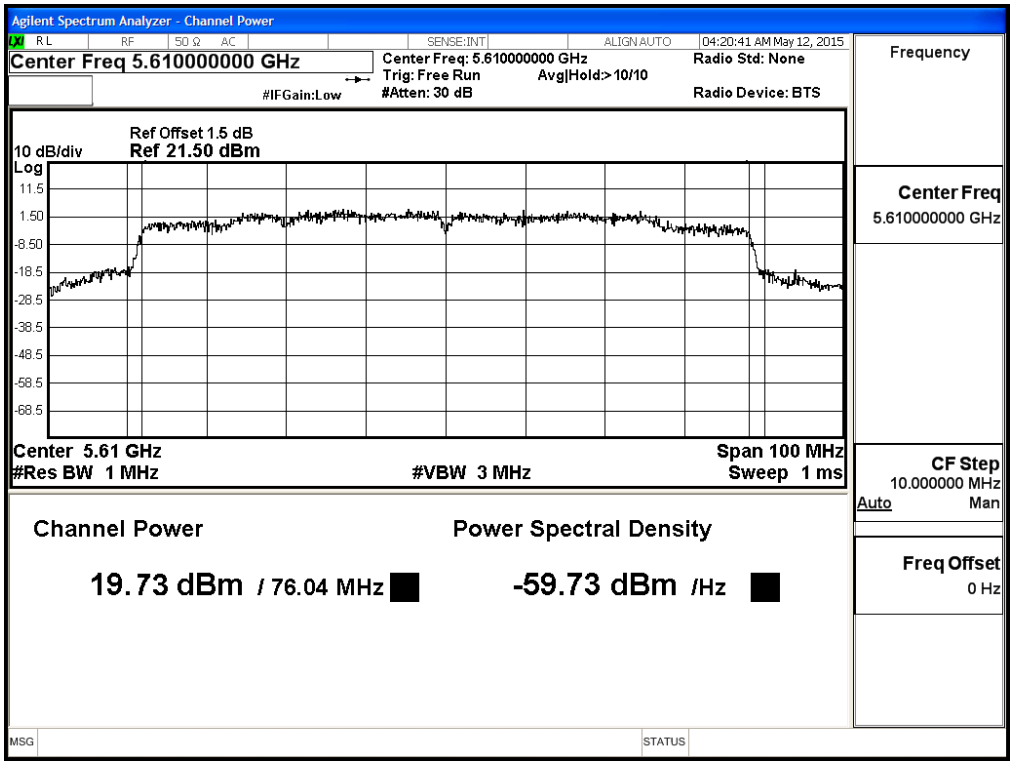
Maximum conducted output power:

Channel 106 – Chain B



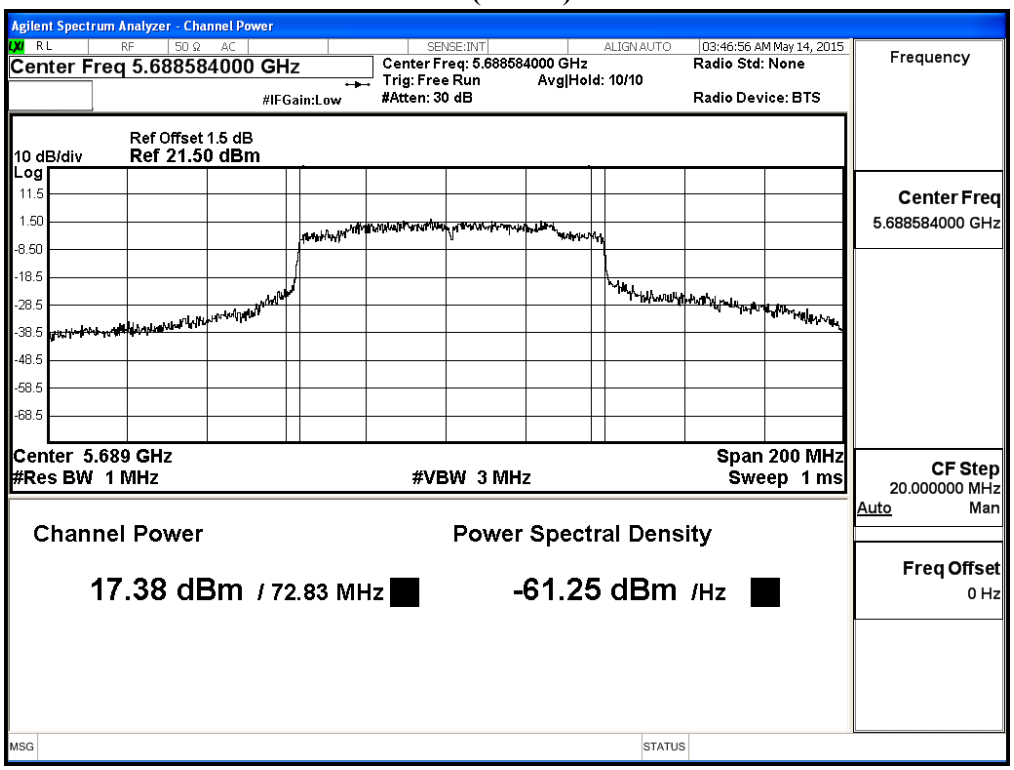
Maximum conducted output power:

Channel 122 – Chain B



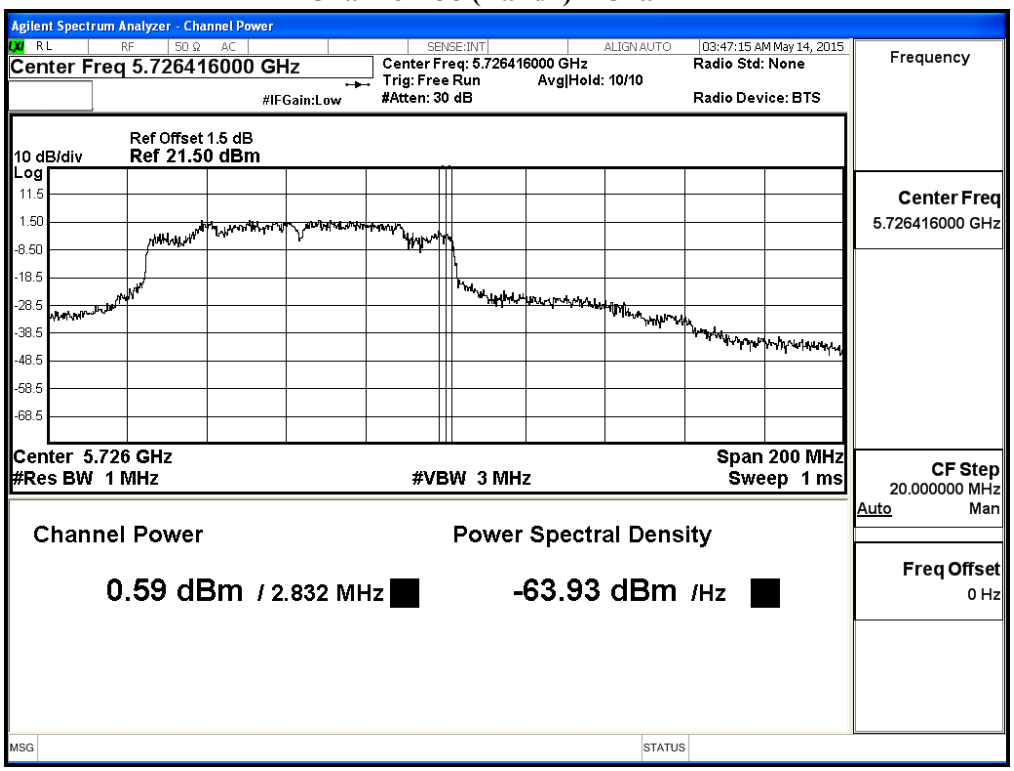
Maximum conducted output power:

Channel 138 (Band3) – Chain B



Maximum conducted output power:

Channel 138 (Band4) – Chain B



Product : Intel® Dual Band Wireless-AC 8260
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 4 Beamforming: Transmit (802.11n-20BW 14.4Mbps)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	
		Measurement Level (dBm)								
36	5180	17.94	--	--	--	--	--	--	--	<30dBm
44	5220	18.18	18.06	17.94	17.83	17.74	17.63	17.58	17.44	<30dBm
48	5240	18.16	--	--	--	--	--	--	--	<30dBm
52	5260	18.48	--	--	--	--	--	--	--	<24dBm
60	5300	18.47	18.36	18.24	18.17	18.08	17.93	17.84	17.76	<24dBm
64	5320	17.32	--	--	--	--	--	--	--	<24dBm
100	5500	17.74	--	--	--	--	--	--	--	<24dBm
116	5580	18.45	18.36	18.28	18.16	18.07	17.93	17.81	17.74	<24dBm
140	5700	18.6	--	--	--	--	--	--	--	<24dBm

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)								Required Limit
		HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	
		Measurement Level (dBm)								
36	5180	18.22	--	--	--	--	--	--	--	<30dBm
44	5220	17.94	17.86	17.74	17.62	17.58	17.43	17.38	17.21	<30dBm
48	5240	18.17	--	--	--	--	--	--	--	<30dBm
52	5260	18.08	--	--	--	--	--	--	--	<24dBm
60	5300	18.07	17.97	17.83	17.74	17.66	17.52	17.47	17.38	<24dBm
64	5320	17.43	--	--	--	--	--	--	--	<24dBm
100	5500	17.53	--	--	--	--	--	--	--	<24dBm
116	5580	17.18	17.06	16.97	16.83	16.76	16.64	16.52	16.48	<24dBm
140	5700	17.52	--	--	--	--	--	--	--	<24dBm

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

Maximum conducted output power Measurement:

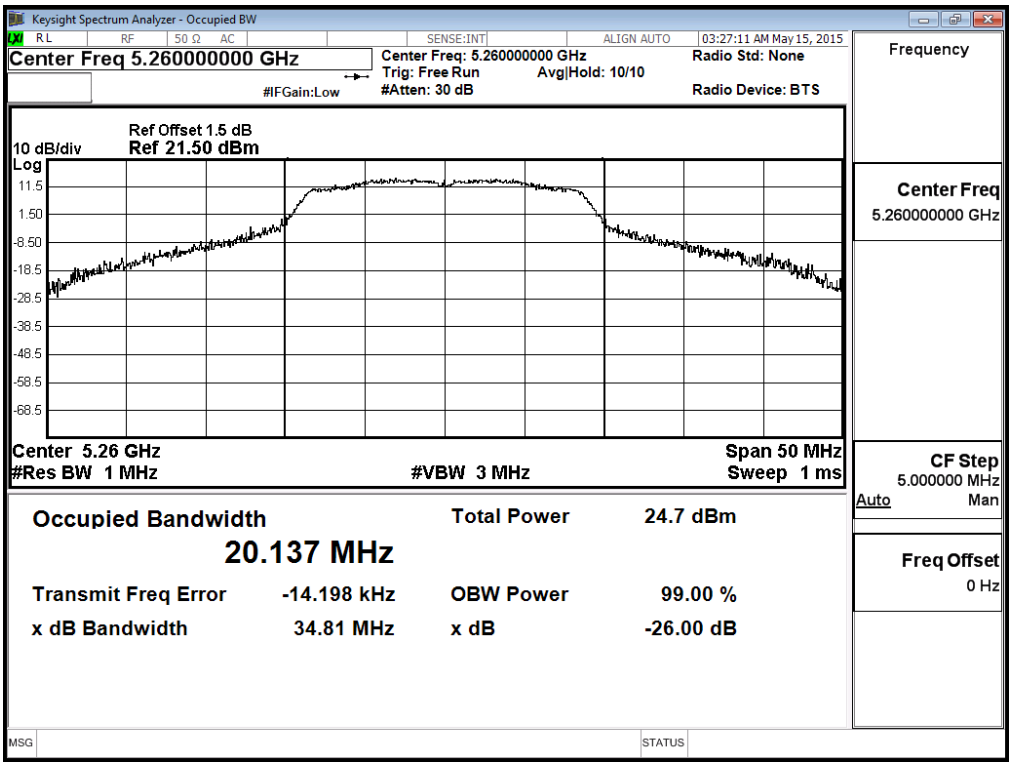
(CHAIN A+ B)

Channel Number	Frequency (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit	
							(dBm)	dBm+10log(BW)
36	5180	--	17.94	18.22	0.088	21.181	24	--
44	5220	--	18.18	17.94	0.088	21.160	24	--
48	5240	--	18.16	18.17	0.088	21.263	24	--
52	5260	20.095	18.48	18.08	0.088	21.383	24	24.03
60	5300	20.558	18.47	18.07	0.088	21.373	24	24.13
64	5320	19.517	17.32	17.43	0.088	20.474	24	23.90
100	5500	19.280	17.74	17.53	0.088	20.735	24	23.85
116	5580	19.467	18.45	17.18	0.088	20.960	24	23.89
140	5700	18.631	18.60	17.52	0.088	21.192	24	23.70

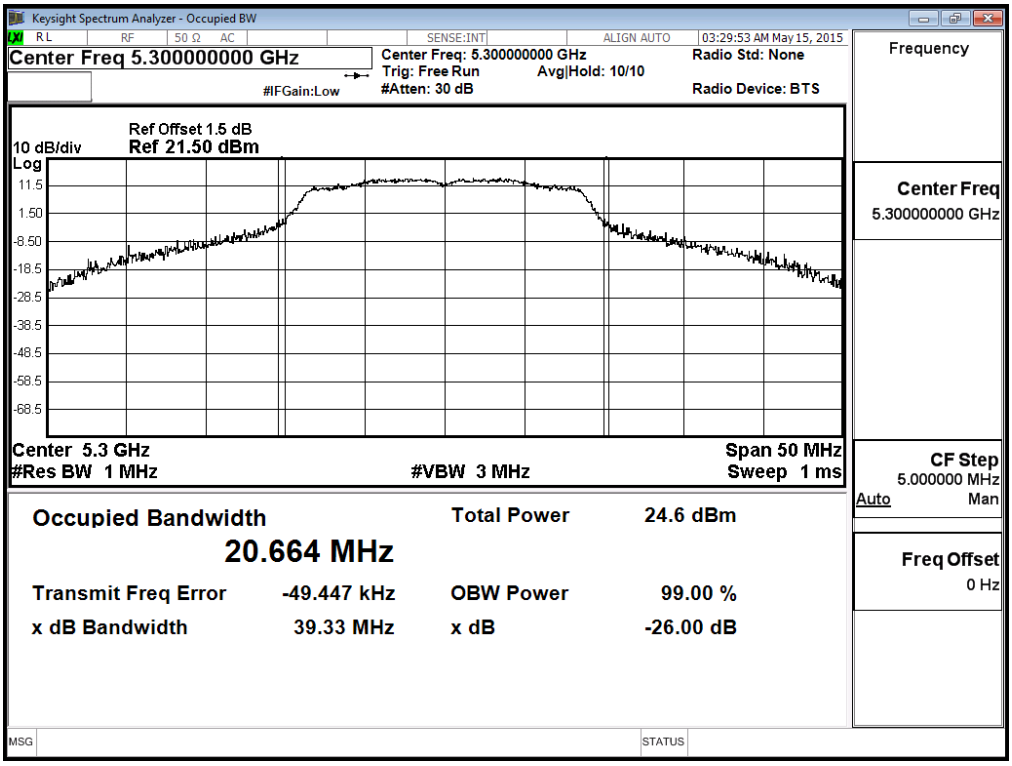
Note:

1. Total Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)) + Duty Factor.
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

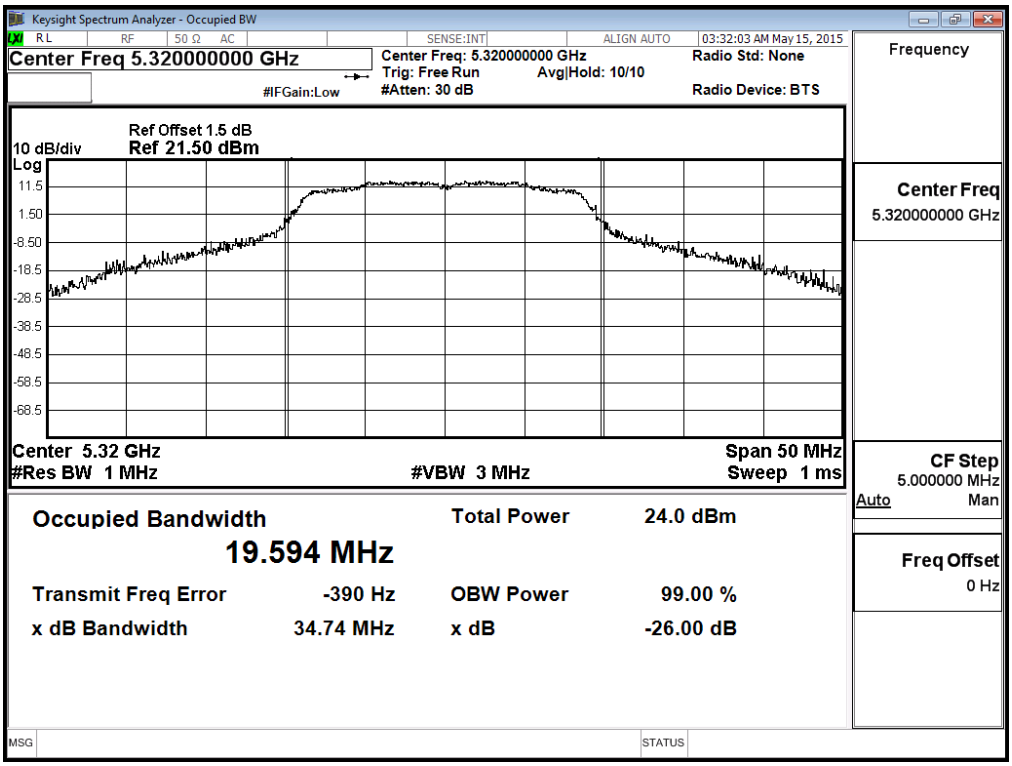
99% Occupied Bandwidth:
Channel 52 -Chain A



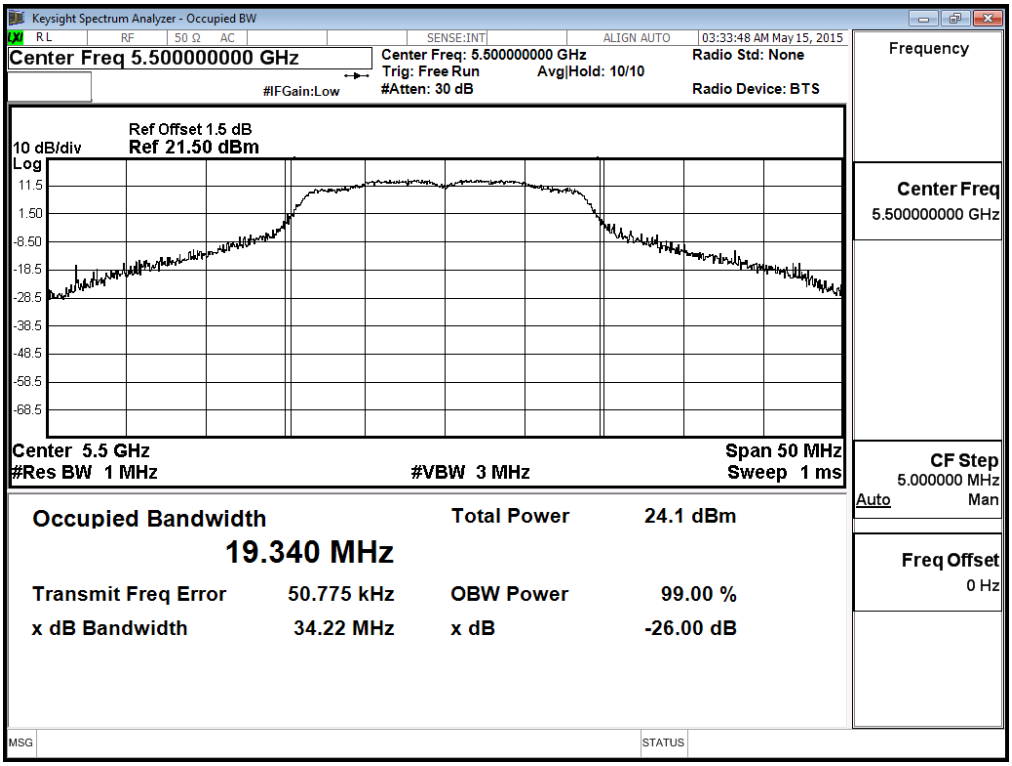
Channel 60 -Chain A



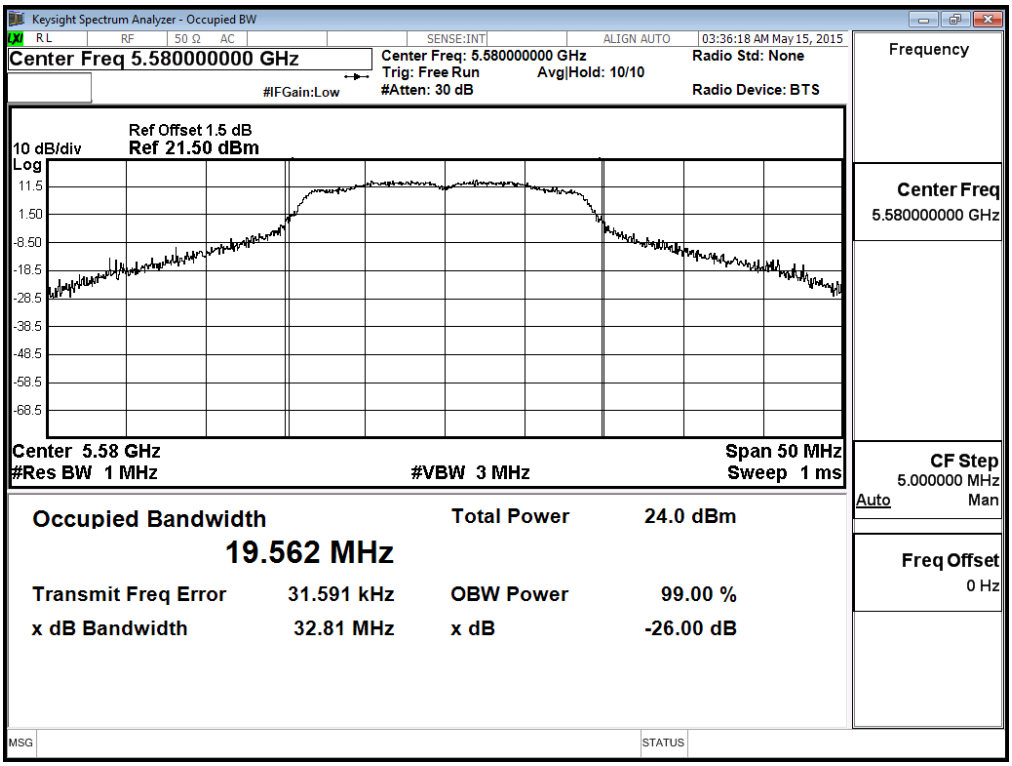
Channel 64 -Chain A



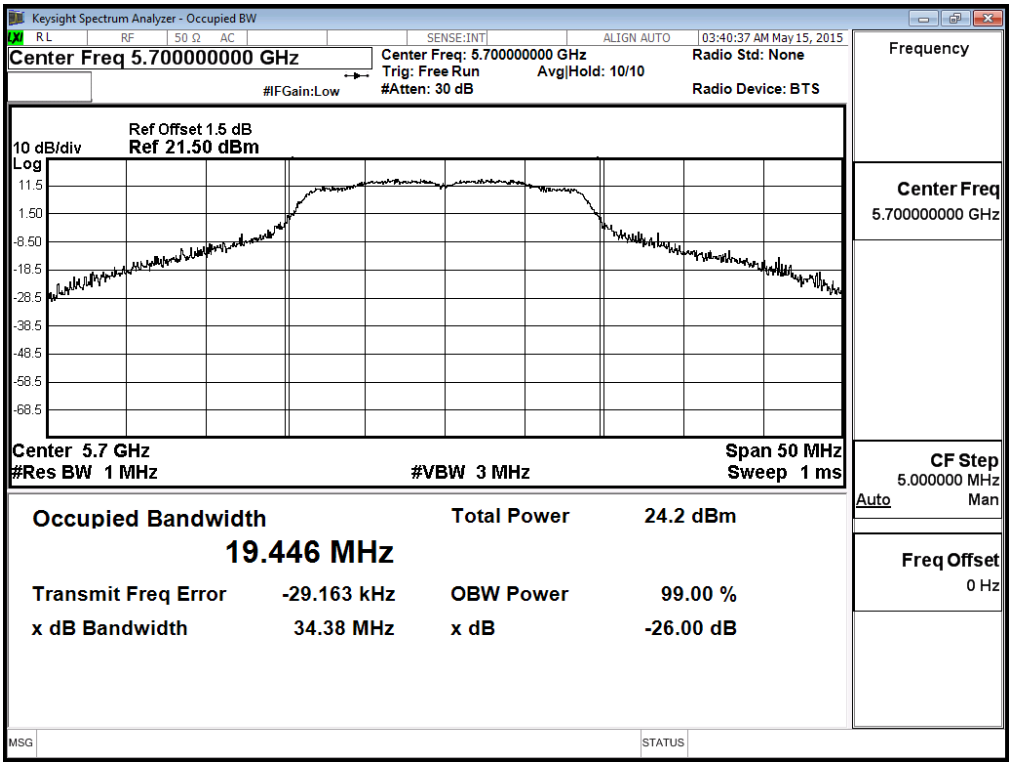
Channel 100 -Chain A



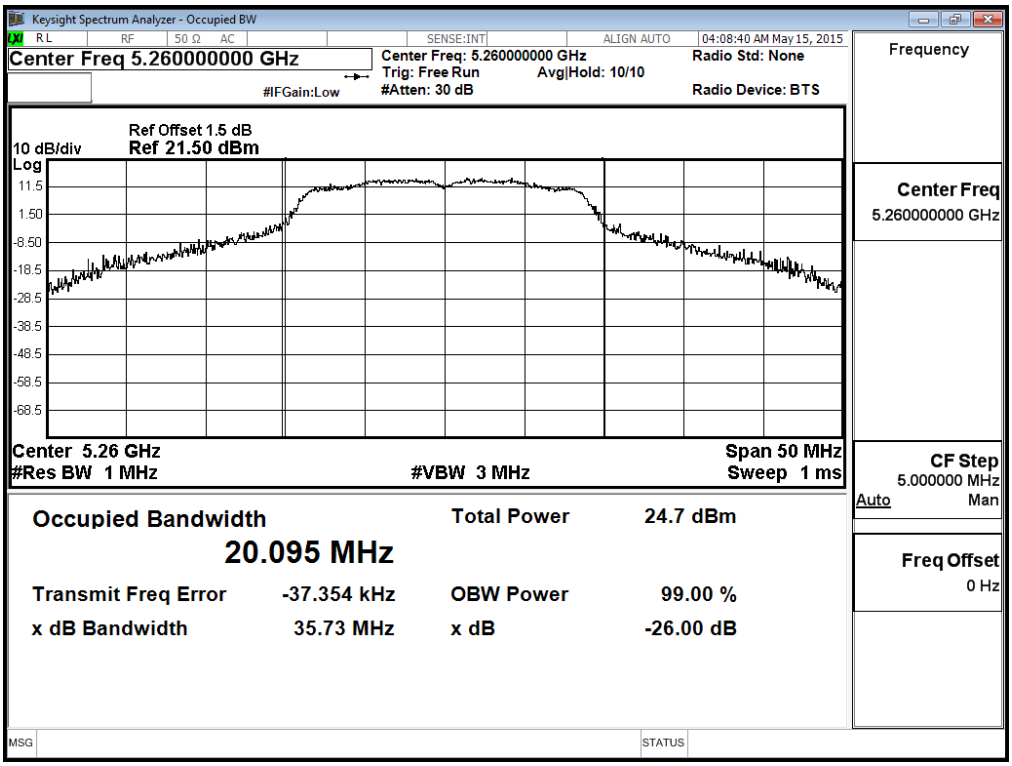
Channel 116 -Chain A



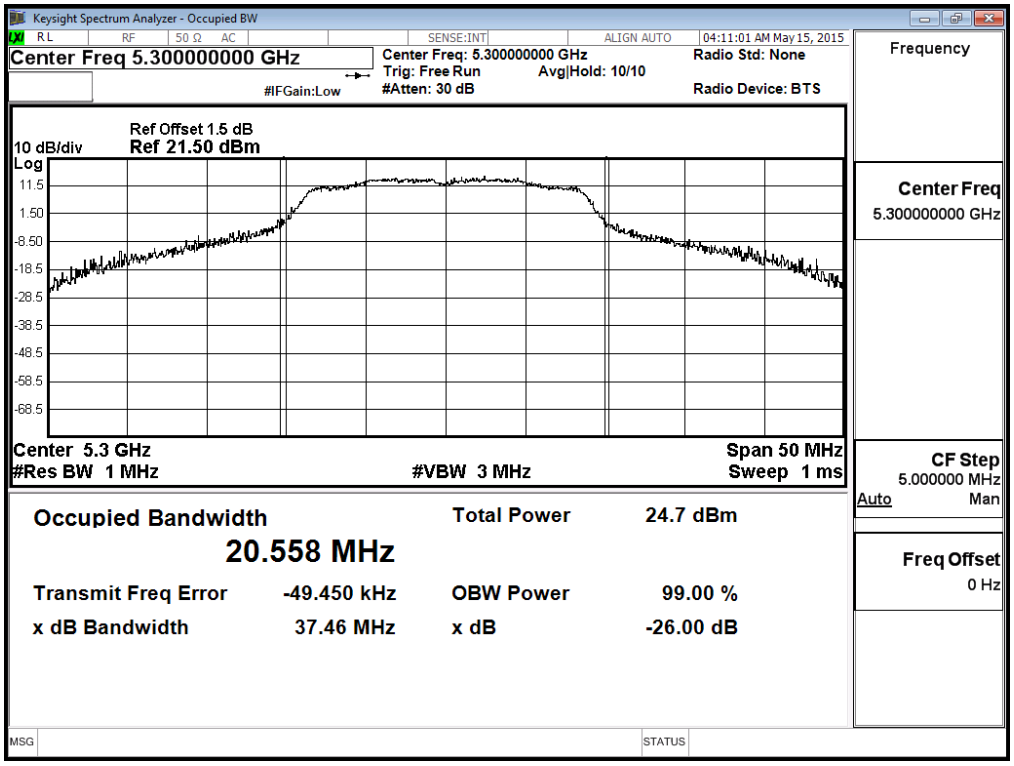
Channel 140 -Chain A



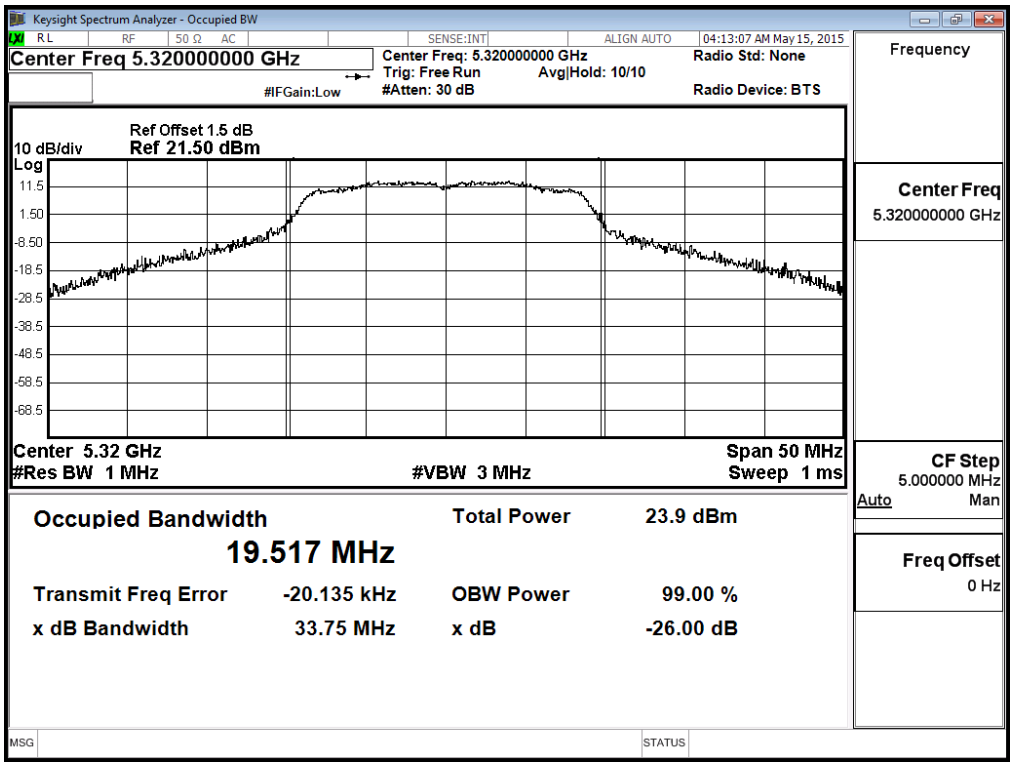
99% Occupied Bandwidth:
Channel 52 -Chain B



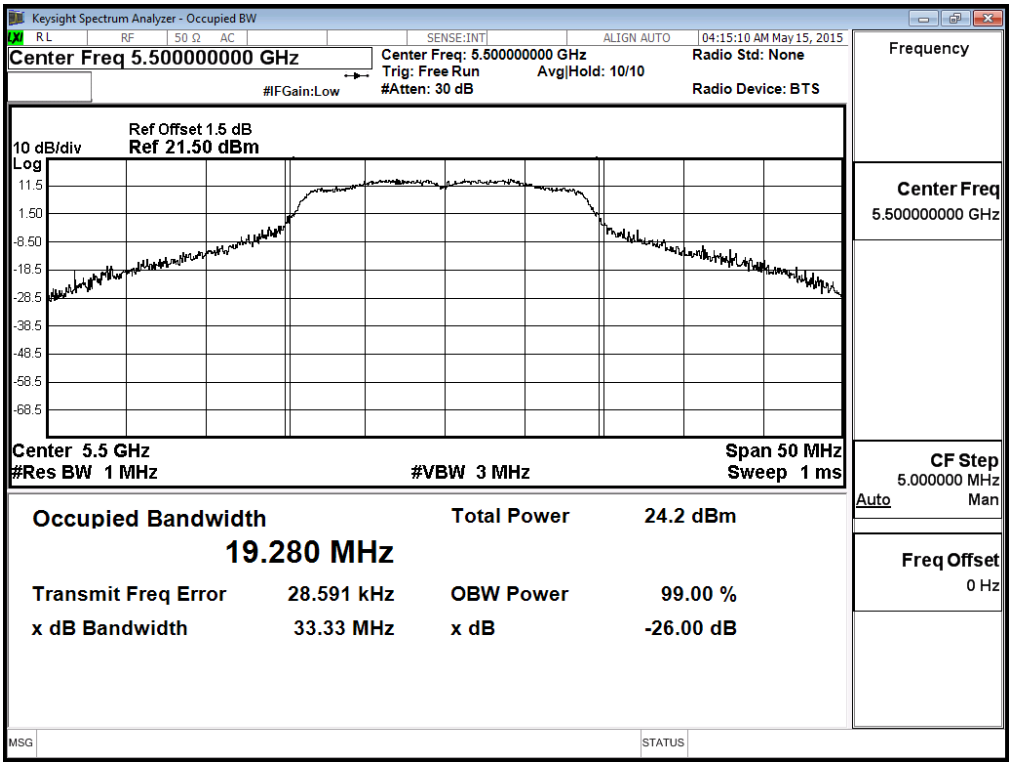
Channel 60 -Chain B



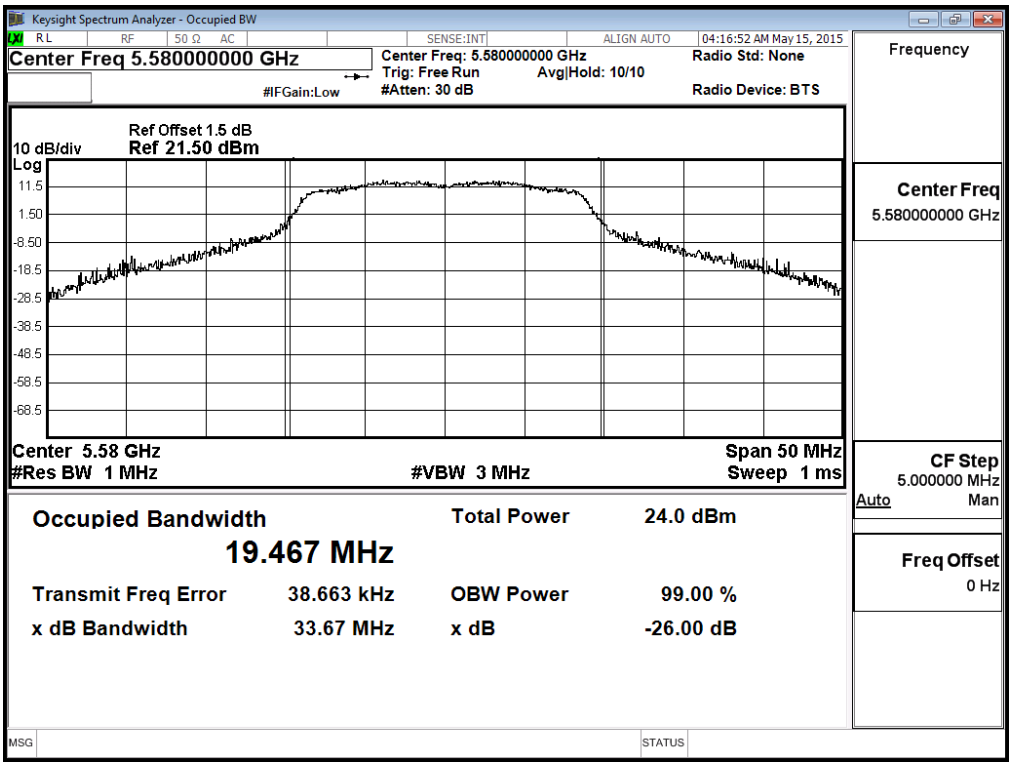
Channel 64 -Chain B



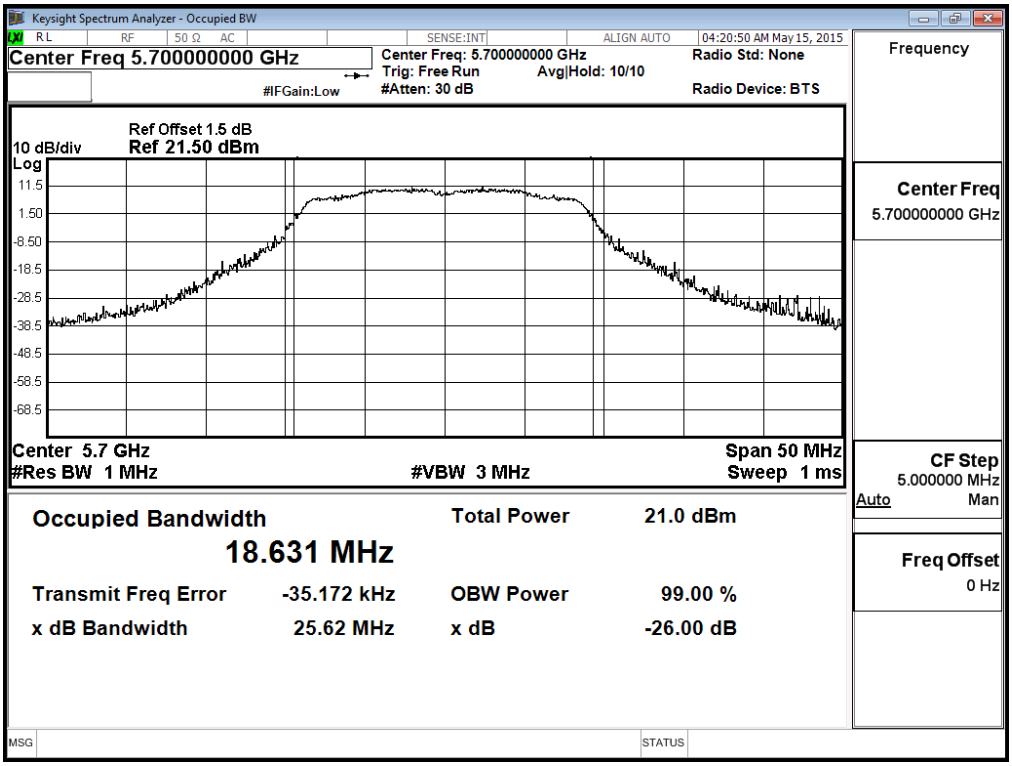
Channel 100 -Chain B



Channel 116 -Chain B



Channel 140 -Chain B



Product : Intel® Dual Band Wireless-AC 8260
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 4 Beamforming: Transmit (802.11n-40BW 30Mbps)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	
		Measurement Level (dBm)								
38	5190	18.03	--	--	--	--	--	--	--	<30dBm
46	5230	18.13	18.06	17.95	17.83	17.74	17.68	17.55	17.43	<30dBm
54	5270	18.45	--	--	--	--	--	--	--	<24dBm
62	5310	14.63	14.51	14.46	14.38	14.28	14.11	14.08	13.97	<24dBm
102	5510	15.82	--	--	--	--	--	--	--	<24dBm
110	5550	18.53	18.43	18.33	18.27	18.19	18.02	17.97	17.86	<24dBm
134	5670	18.64	--	--	--	--	--	--	--	<24dBm

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)								Required Limit
		HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	
		Measurement Level (dBm)								
38	5190	18.2	--	--	--	--	--	--	--	<30dBm
46	5230	17.79	17.63	17.57	17.44	17.38	17.29	17.11	17.05	<30dBm
54	5270	17.94	--	--	--	--	--	--	--	<24dBm
62	5310	13.88	13.76	13.64	13.52	13.49	13.37	13.26	13.11	<24dBm
102	5510	16.02	--	--	--	--	--	--	--	<24dBm
110	5550	18.06	17.93	17.87	17.76	17.63	17.54	17.48	17.33	<24dBm
134	5670	17.84	--	--	--	--	--	--	--	<24dBm

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

Maximum conducted output power Measurement:

(CHAIN A+ B)

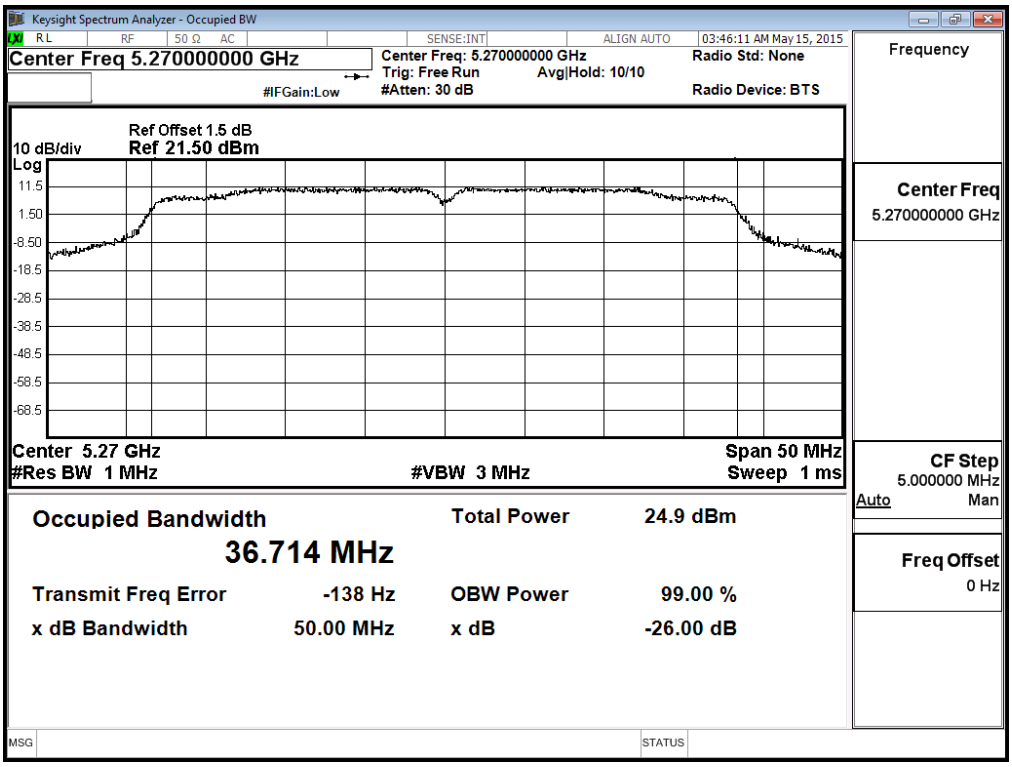
Channel Number	Frequency (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit	
							(dBm)	dBm+10log(BW)
38	5190	--	18.03	18.20	0.150	21.276	24	--
46	5230	--	18.13	17.79	0.150	21.124	24	--
54	5270	36.714	18.45	17.94	0.150	21.363	24	26.65
62	5310	36.425	14.63	13.88	0.150	17.431	24	26.61
102	5510	36.436	15.82	16.02	0.150	19.081	24	26.62
110	5550	36.808	18.53	18.06	0.150	21.462	24	26.66
134	5670	36.595	18.64	17.84	0.150	21.419	24	26.63

Note:

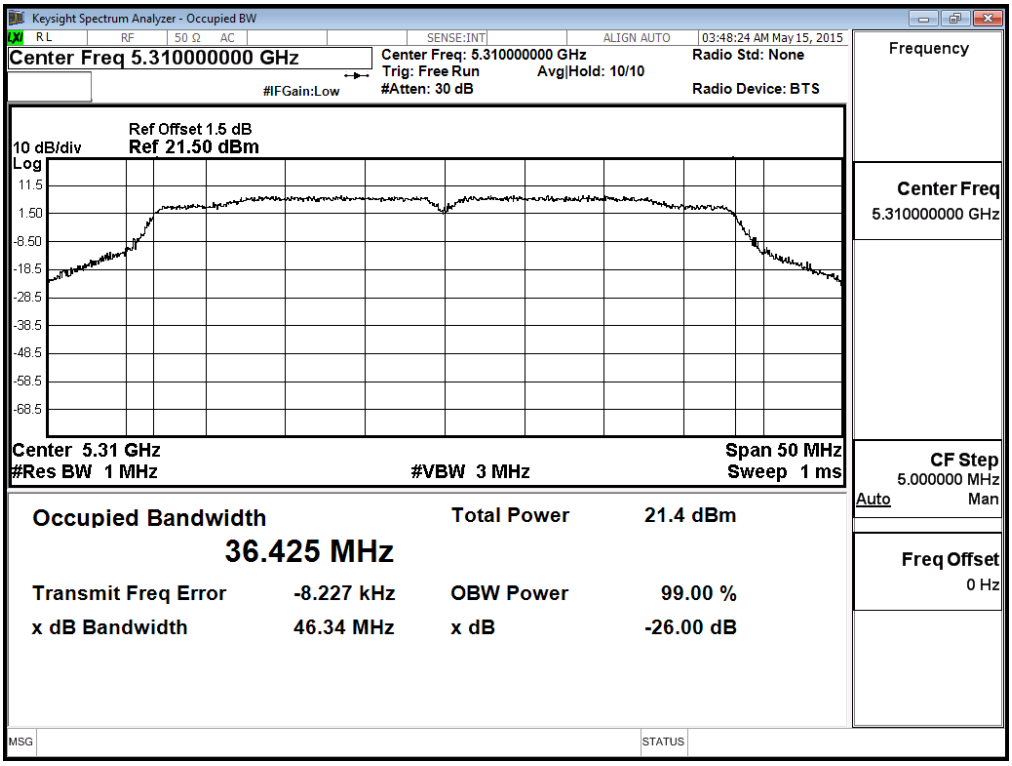
1. Total Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)) + Duty Factor.
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

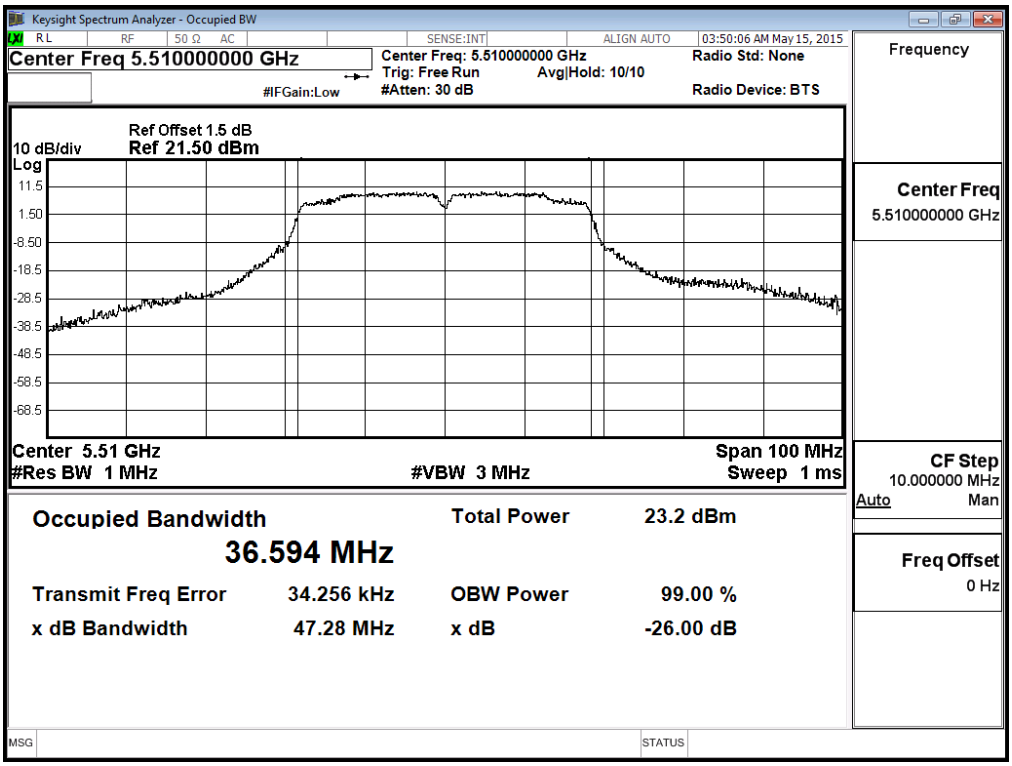
Channel 54 – Chain A



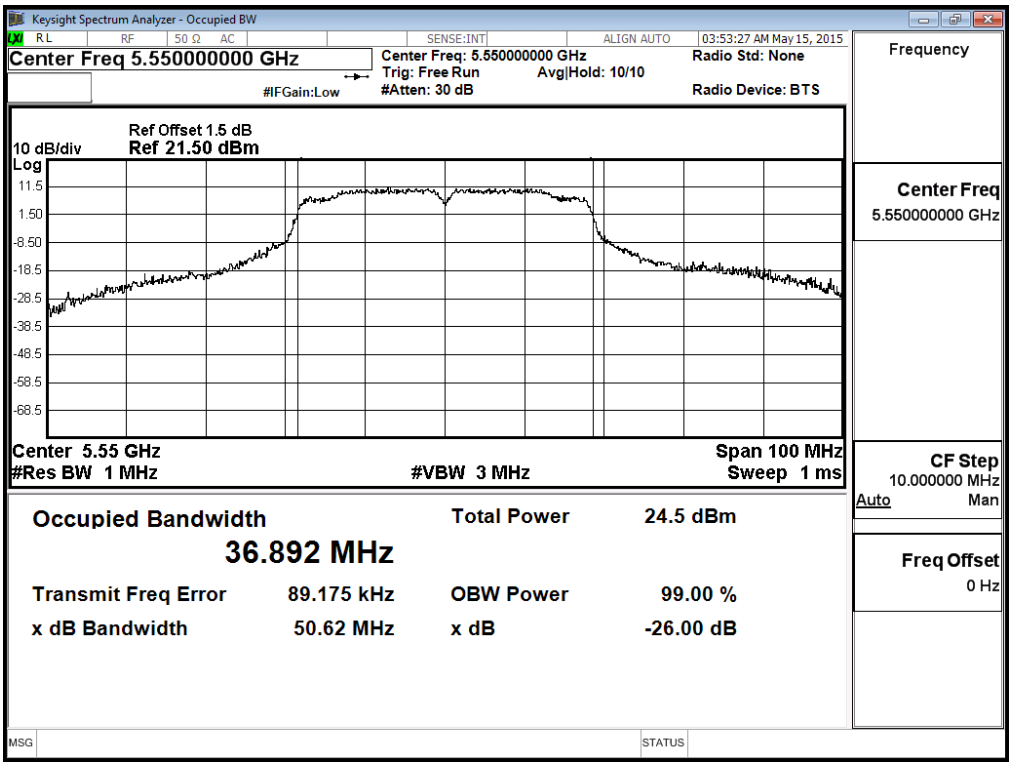
Channel 62 – Chain A



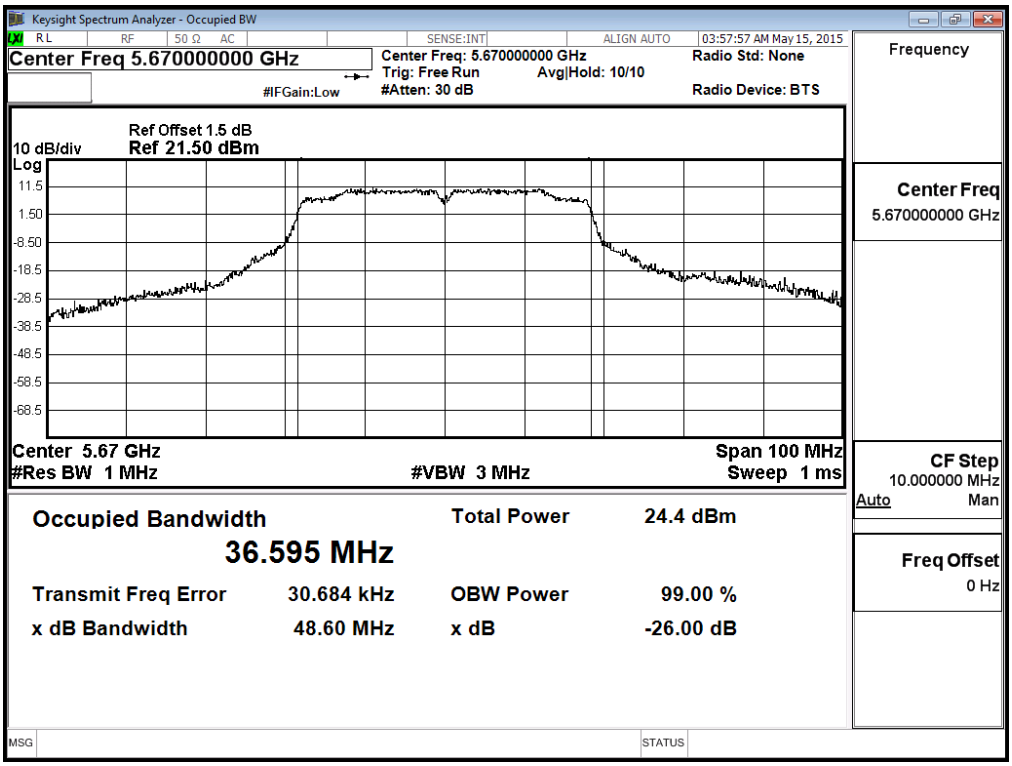
Channel 102 – Chain A



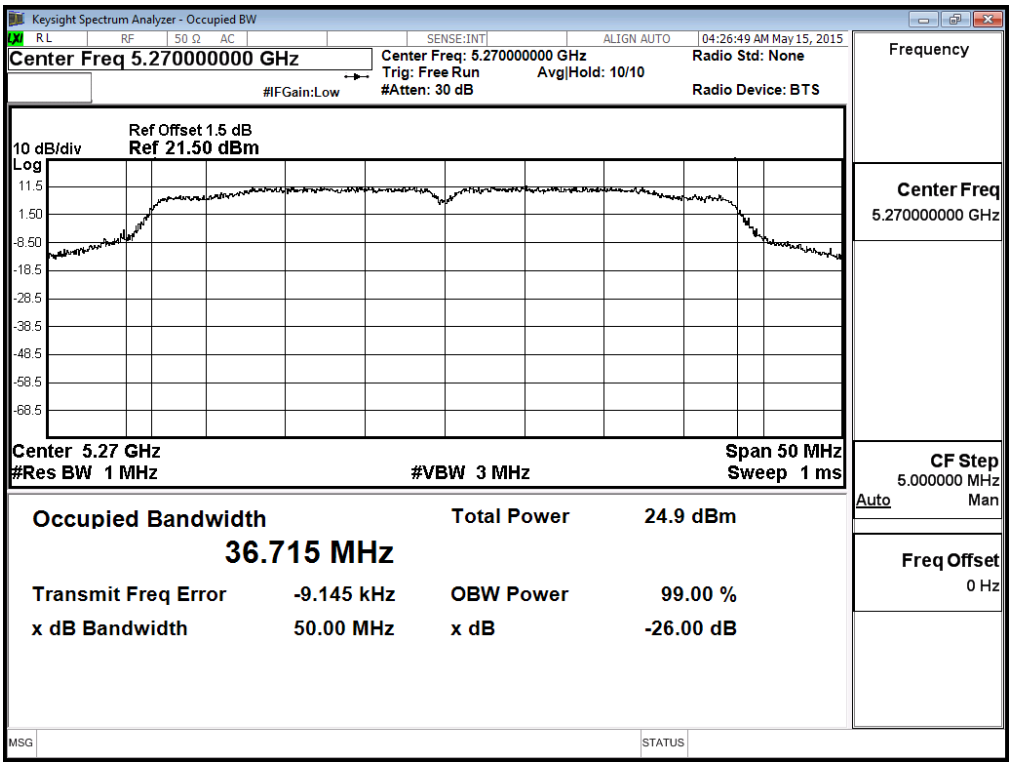
Channel 110 – Chain A



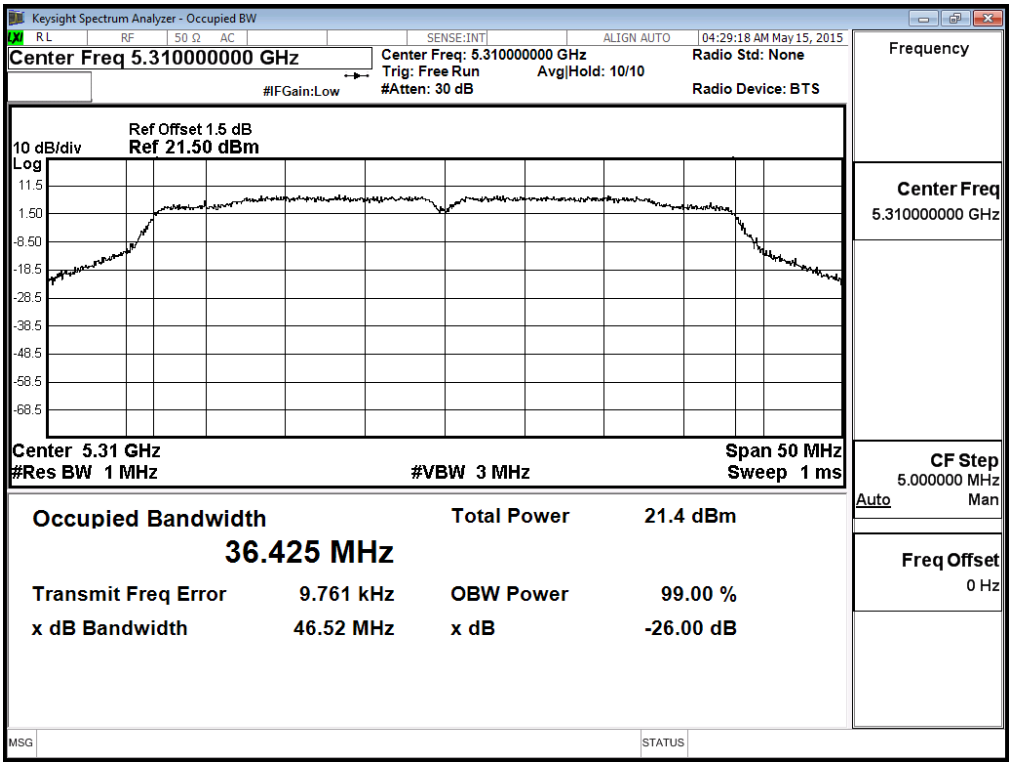
Channel 134 – Chain A



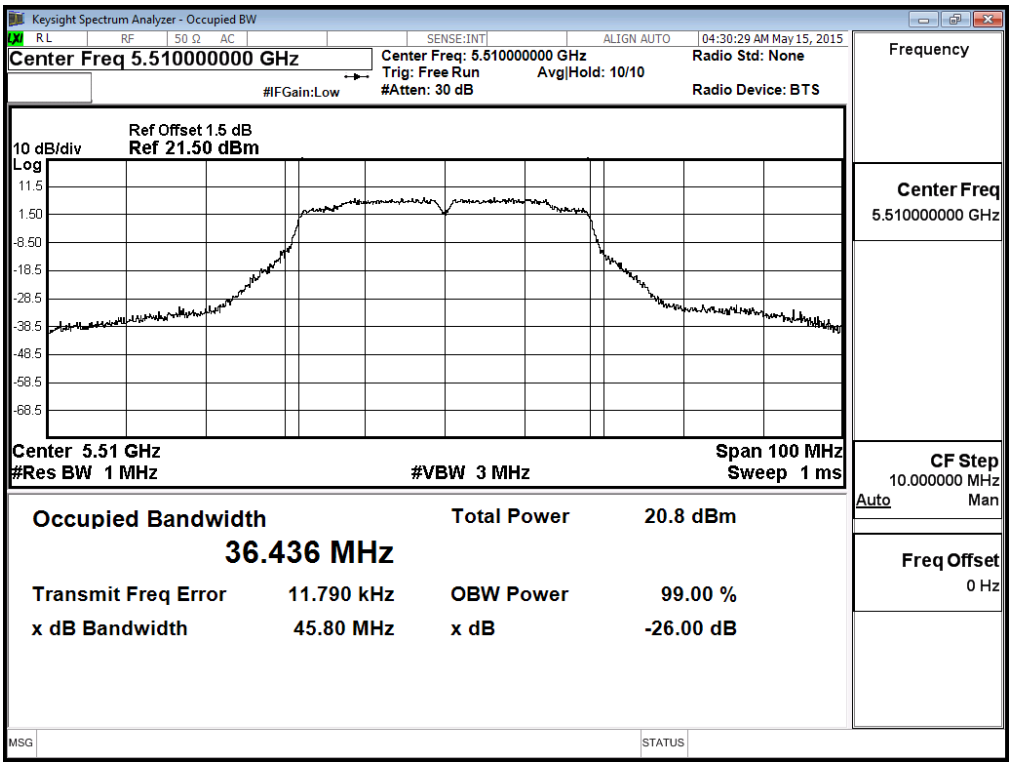
99% Occupied Bandwidth:
Channel 54 – Chain B



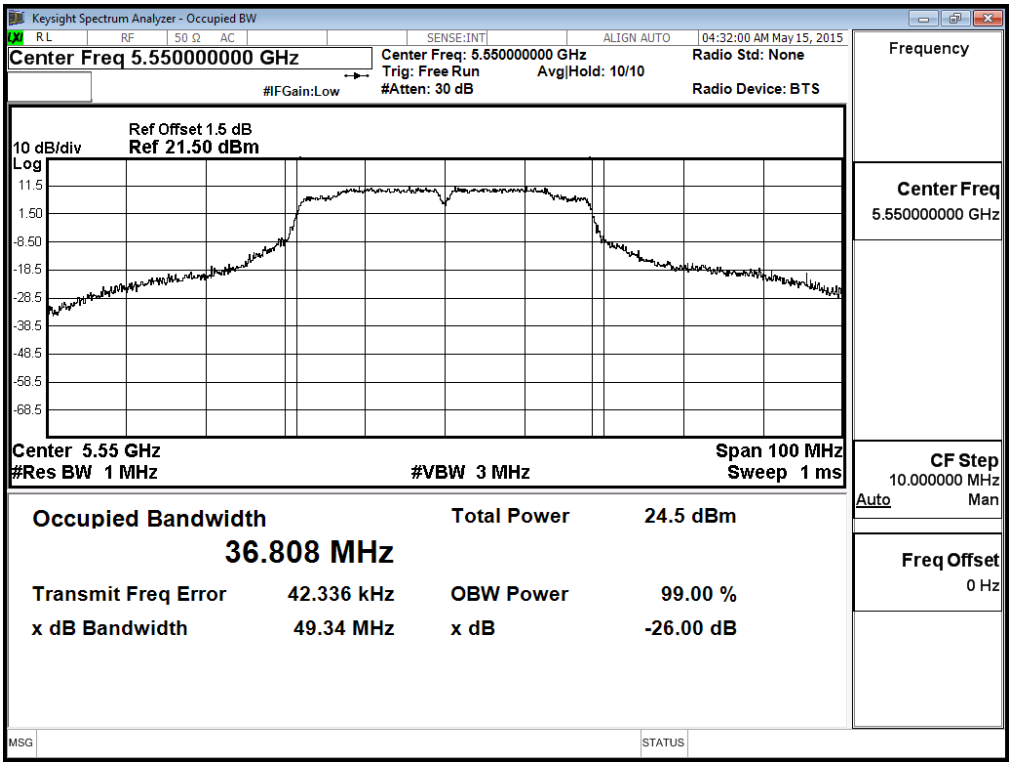
Channel 62 – Chain B



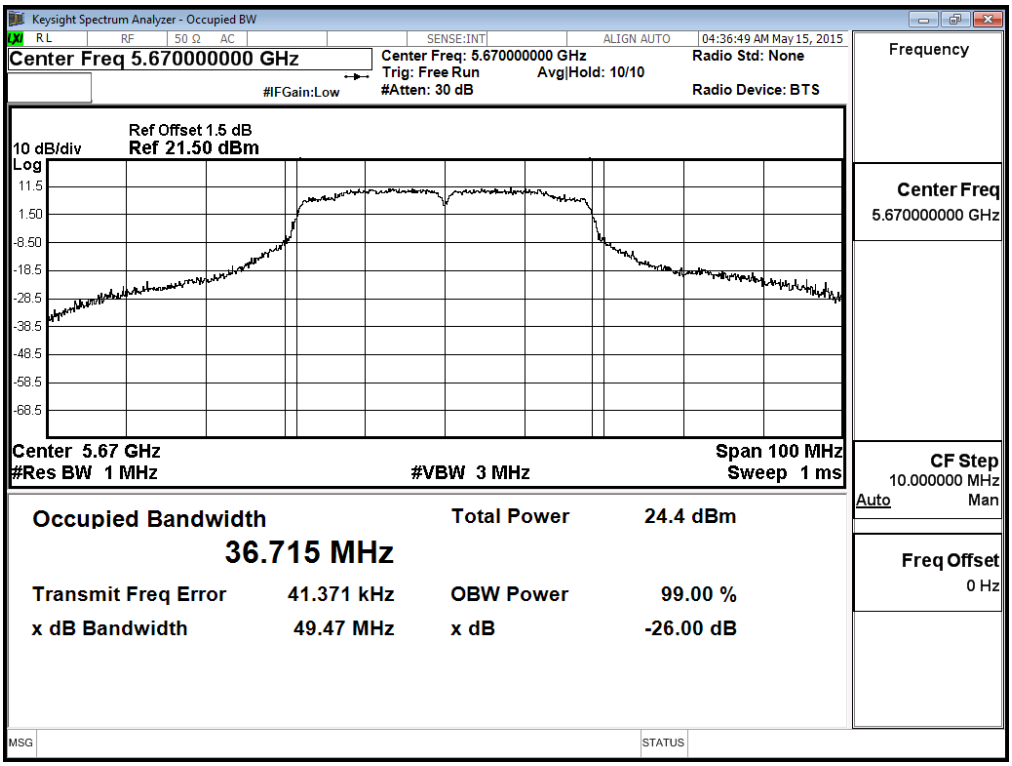
Channel 102 – Chain B



Channel 110 – Chain B



Channel 134 – Chain B



Product : Intel® Dual Band Wireless-AC 8260
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 4 Beamforming: Transmit (802.11ac-20BW-7.2Mbps)

Chain A

Cable loss=1dB		Maximum conducted output power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	19.23	18.98	18.73	18.48	18.23	17.98	17.73	17.48	17.23	<24dBm
144 (Band4)	5720	10.4	10.33	10.26	10.19	10.12	10.05	9.98	9.91	9.84	<30dBm

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)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	19.92	19.63	19.34	19.05	18.76	18.47	18.18	17.89	17.6	<24dBm
144 (Band4)	5720	10.46	10.25	10.17	10.04	9.81	9.74	9.63	9.57	9.44	<30dBm

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

Maximum conducted output power Measurement:

(CHAIN A+ B)

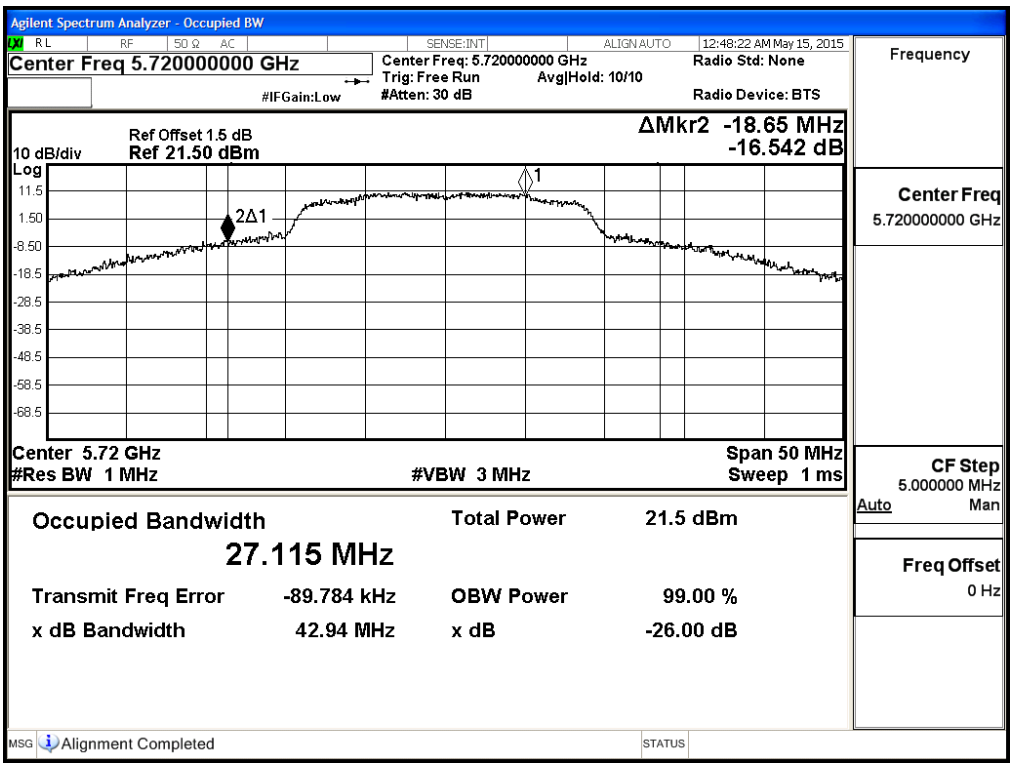
Channel Number	Frequency (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit	
							(dBm)	dBm+10log(BW)
144(Band3)	5720	18.650	19.23	19.92	0.110	22.709	24	23.71
144(Band4)	5720	8.465	10.40	10.46	0.110	13.550	30	20.28

Note:

1. Total Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)) + Duty Factor.
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

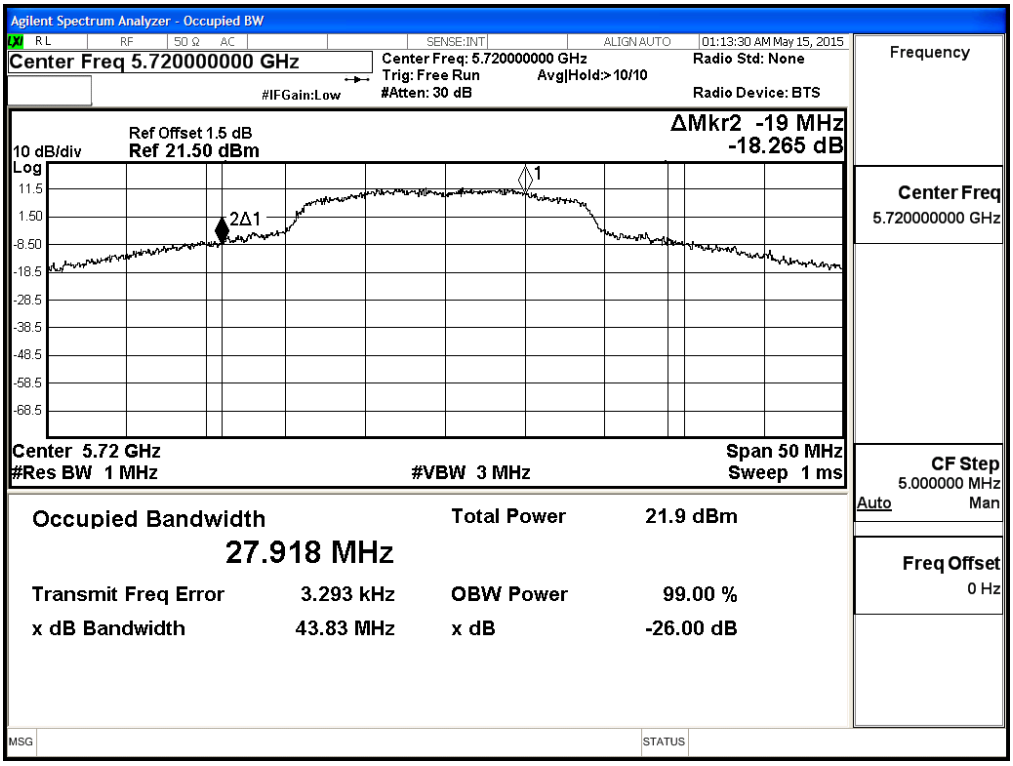
99% Occupied Bandwidth:

Channel 144 – Chain A



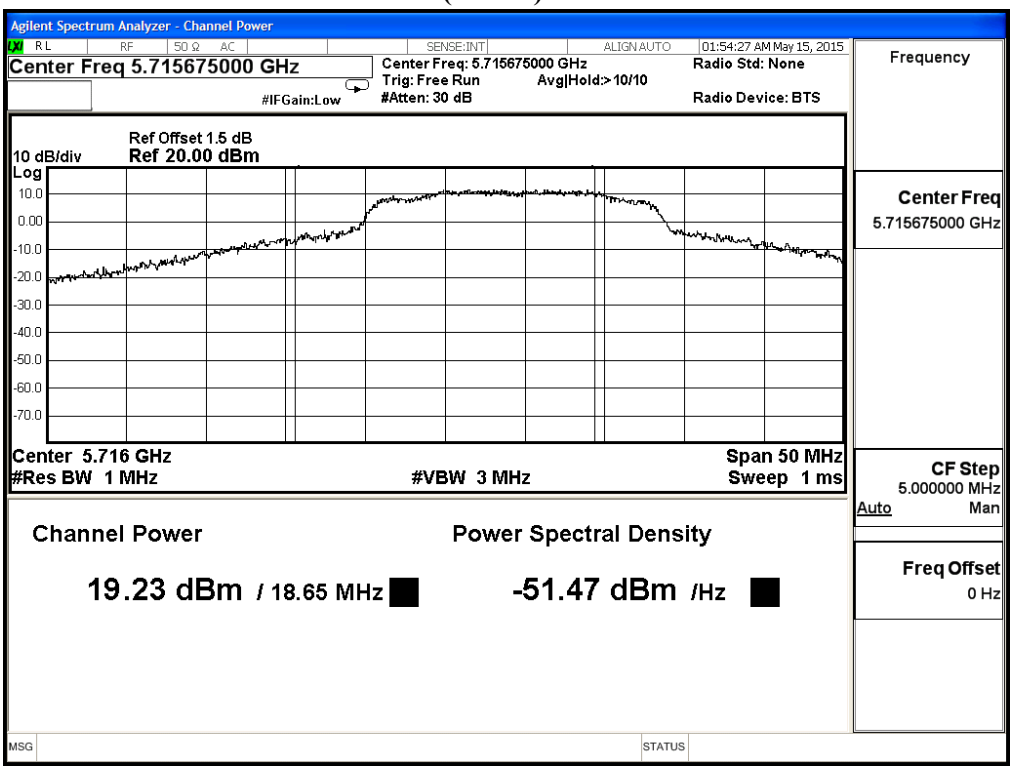
99% Occupied Bandwidth:

Channel 144 – Chain B

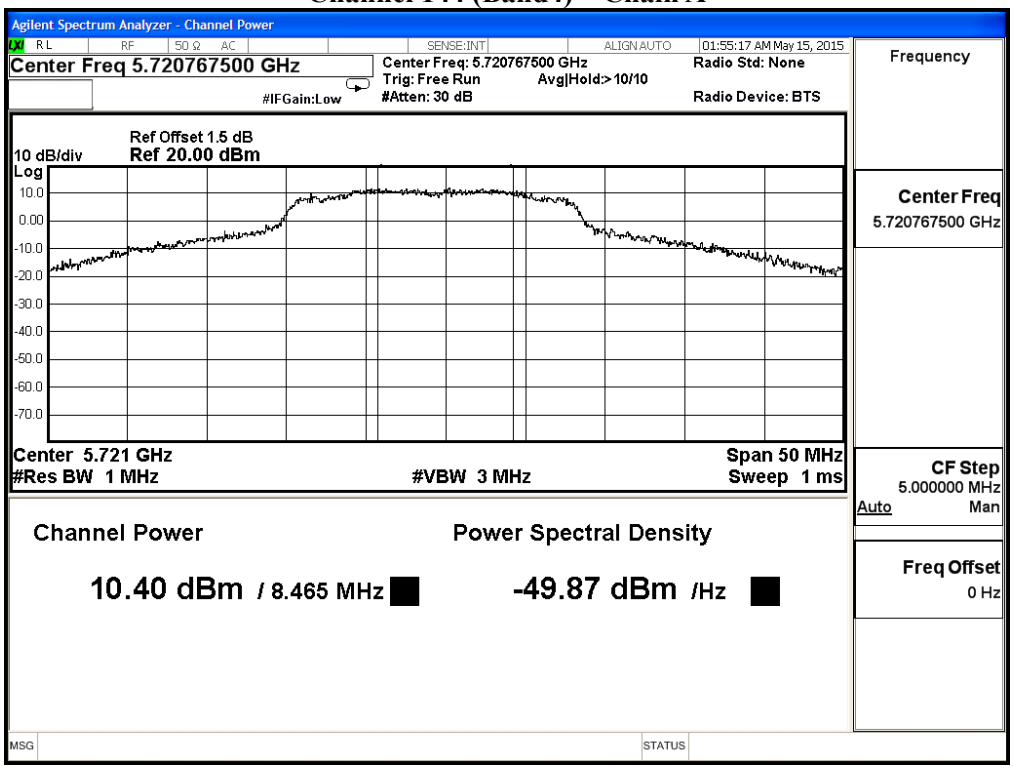


Maximum conducted output power:

Channel 144 (Band3) – Chain A

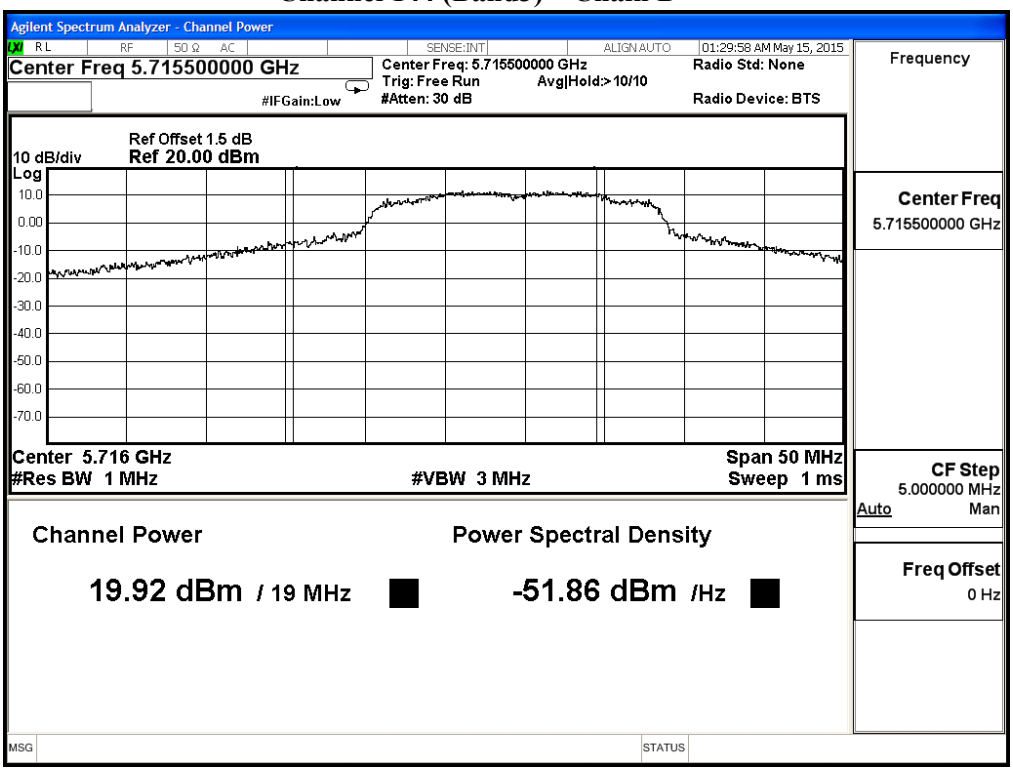


Channel 144 (Band4) – Chain A

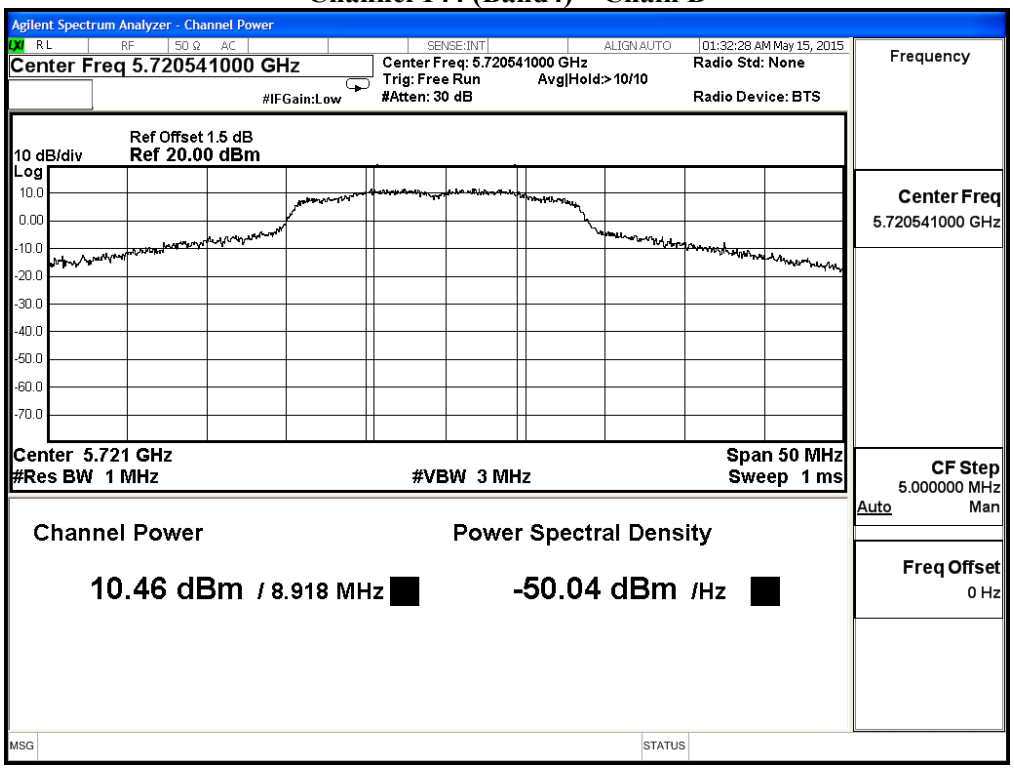


Maximum conducted output power:

Channel 144 (Band3) – Chain B



Channel 144 (Band4) – Chain B



Product : Intel® Dual Band Wireless-AC 8260
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 4 Beamforming: Transmit (802.11ac-40BW-15Mbps)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	19.64	19.37	19.1	18.83	18.56	18.29	18.02	17.75	17.48	17.21	<24dBm
142F(Band4)	5710	10.27	10.05	9.83	9.61	9.39	9.17	8.95	8.73	8.51	8.29	<30dBm

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)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	19.36	19.24	19.12	19	18.88	18.76	18.64	18.52	18.4	18.28	<24dBm
142F(Band4)	5710	10.86	10.79	10.72	10.65	10.58	10.51	10.44	10.37	10.3	10.23	<30dBm

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

Maximum conducted output power Measurement:

(CHAIN A+ B)

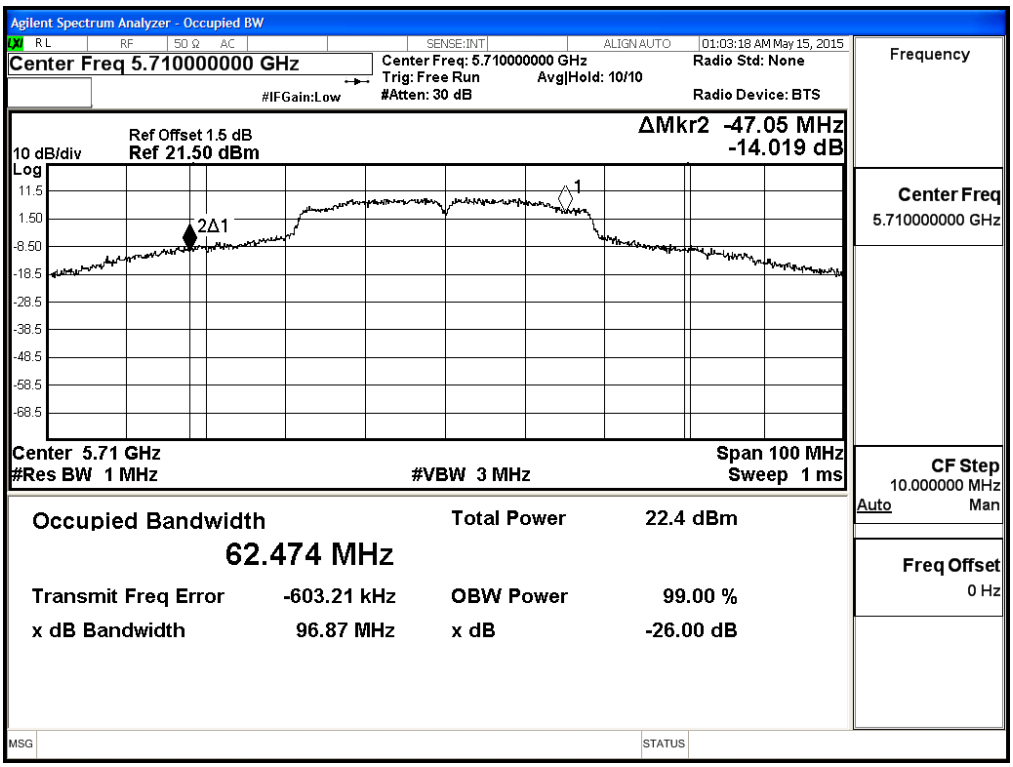
Channel Number	Frequency (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit	
							(dBm)	dBm+10log(BW)
142F(Band3)	5710	45.000	19.64	19.36	0.315	22.828	24	27.53
142F(Band4)	5710	14.640	10.27	10.86	0.315	13.900	30	22.66

Note:

1. Total Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)) + Duty Factor.
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

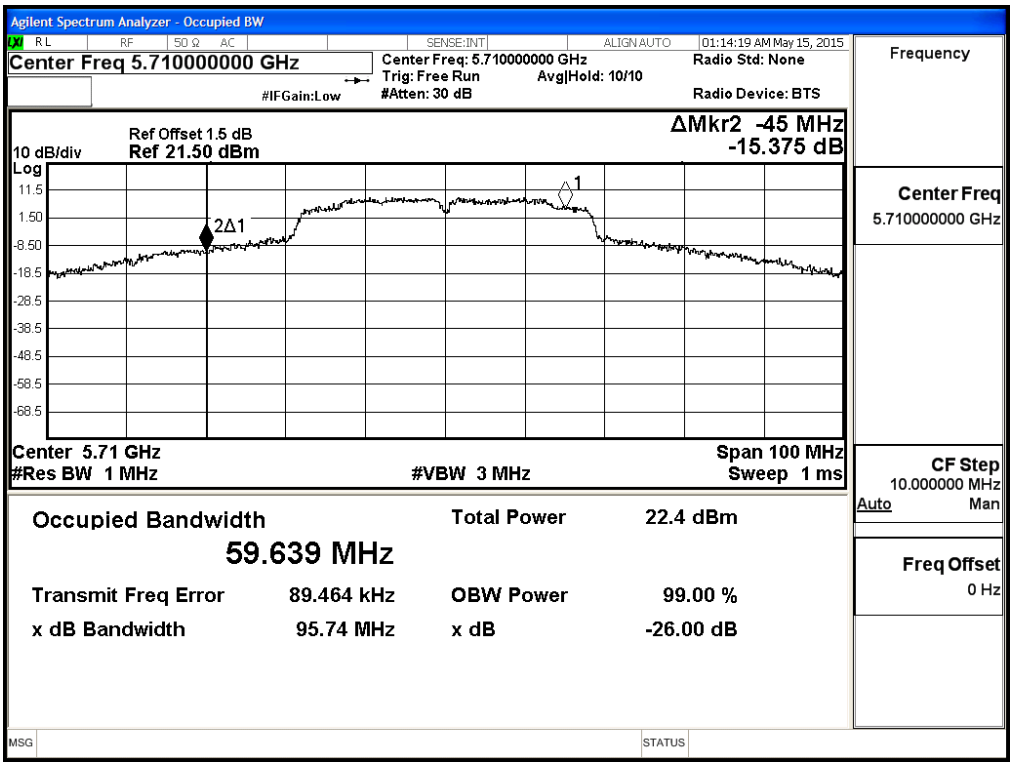
99% Occupied Bandwidth:

Channel 142 – Chain A



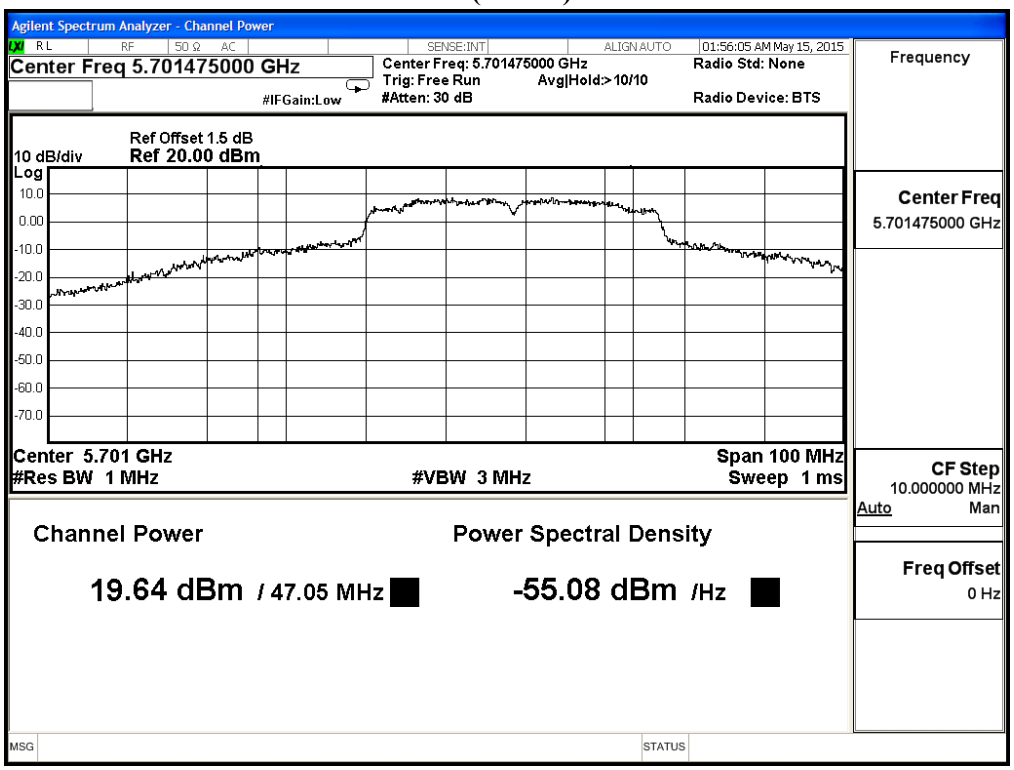
99% Occupied Bandwidth:

Channel 142 – Chain B

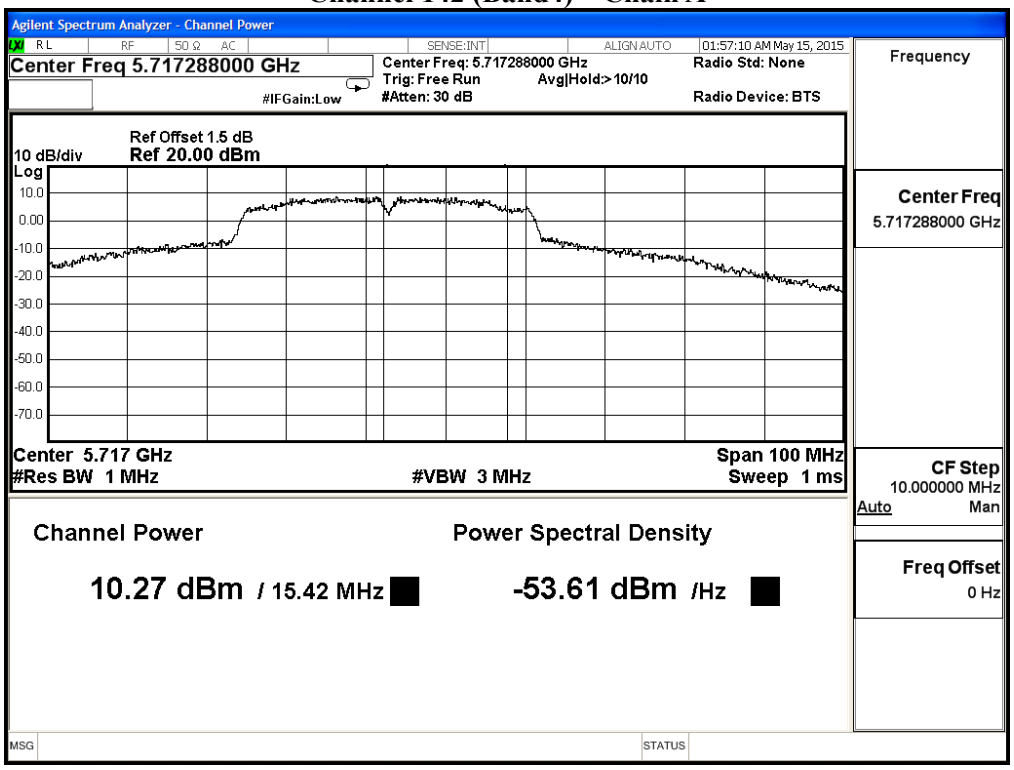


Maximum conducted output power:

Channel 142 (Band3) – Chain A

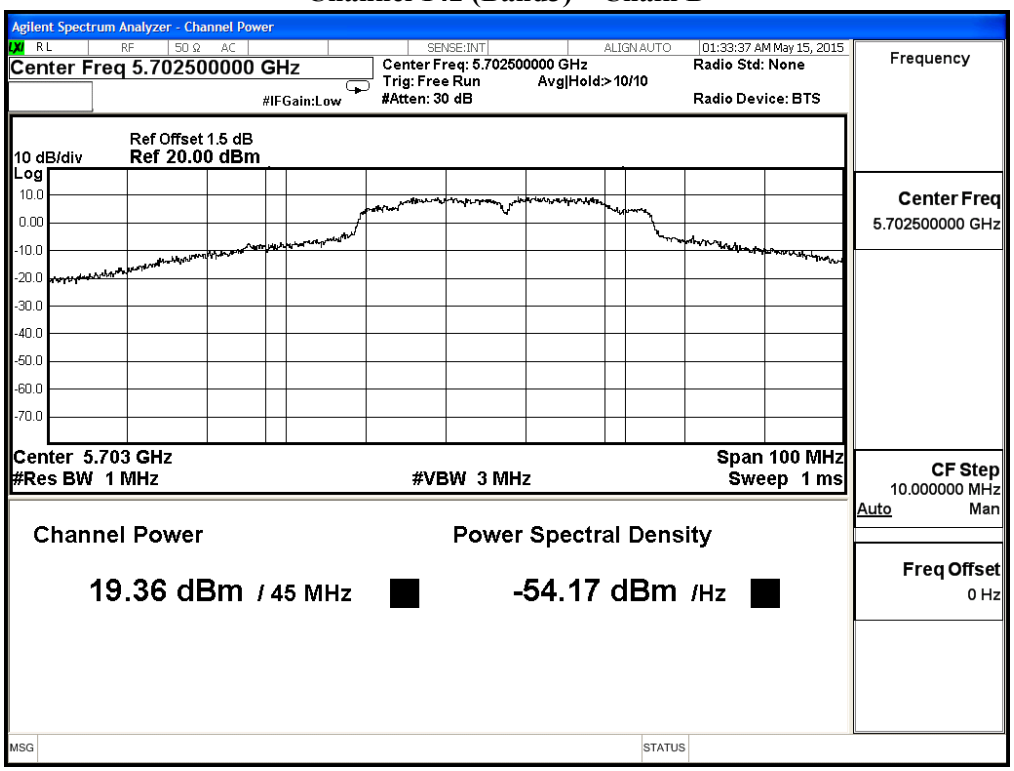


Channel 142 (Band4) – Chain A

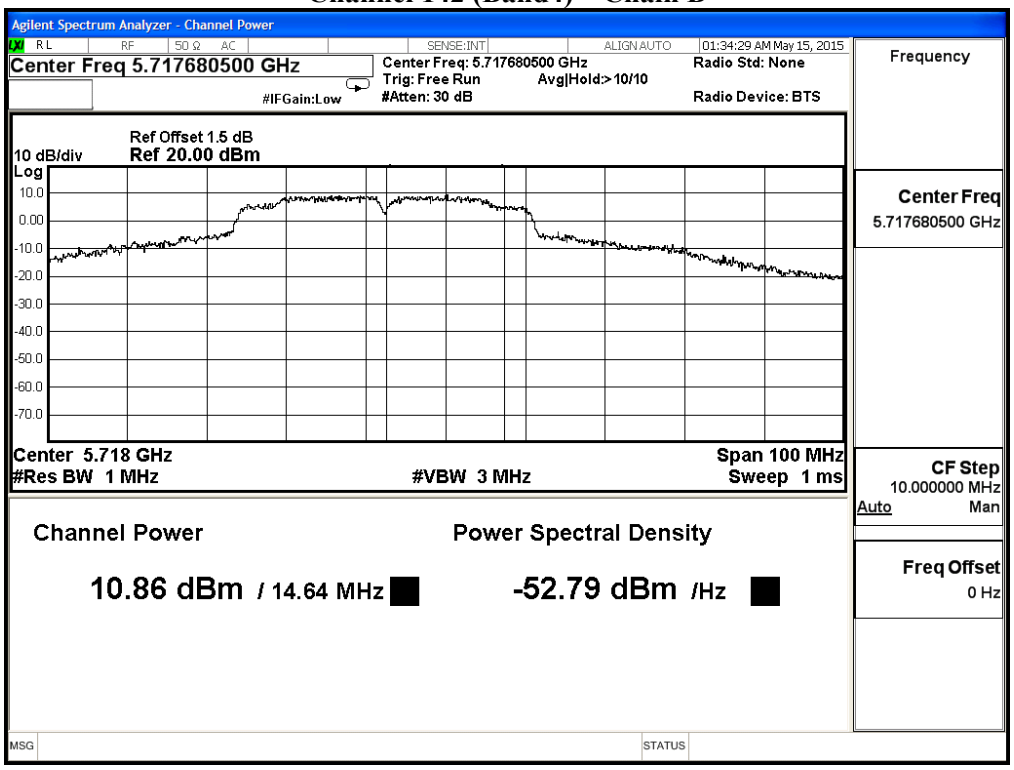


Maximum conducted output power:

Channel 142 (Band3) – Chain B



Channel 142 (Band4) – Chain B



Product : Intel® Dual Band Wireless-AC 8260
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 4 Beamforming: Transmit (802.11ac-80BW-65Mbps)

Chain A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	16.74	16.42	16.1	15.78	15.46	15.14	14.82	14.5	14.18	13.86	<30dBm
58	5290	15.94	15.87	15.8	15.73	15.66	15.59	15.52	15.45	15.38	15.31	<24dBm
106	5530	14.99	14.85	14.71	14.57	14.43	14.29	14.15	14.01	13.87	13.73	<24dBm
122	5610	18.48	18.37	18.26	18.15	18.04	17.93	17.82	17.71	17.6	17.49	<24dBm
138(Band3)	5690	19.37	19.11	18.85	18.59	18.33	18.07	17.81	17.55	17.29	17.03	<24dBm
138(Band4)	5690	10.36	10.25	10.14	10.03	9.92	9.81	9.7	9.59	9.48	9.37	<30dBm

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)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	16.39	16.27	16.15	16.03	15.91	15.79	15.67	15.55	15.43	15.31	<30dBm
58	5290	16.39	16.27	16.18	16.09	16	15.91	15.82	15.73	15.64	15.55	<24dBm
106	5530	15.51	15.42	15.33	15.24	15.15	15.06	14.97	14.88	14.79	14.7	<24dBm
122	5610	19.86	19.79	19.72	19.65	19.58	19.51	19.44	19.37	19.3	19.23	<24dBm
138(Band3)	5690	19.57	19.47	19.37	19.27	19.17	19.07	18.97	18.87	18.77	18.67	<24dBm
138(Band4)	5690	14.44	14.37	14.3	14.23	14.16	14.09	14.02	13.95	13.88	13.81	<30dBm

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

Maximum conducted output power Measurement

(CHAIN A+ B)

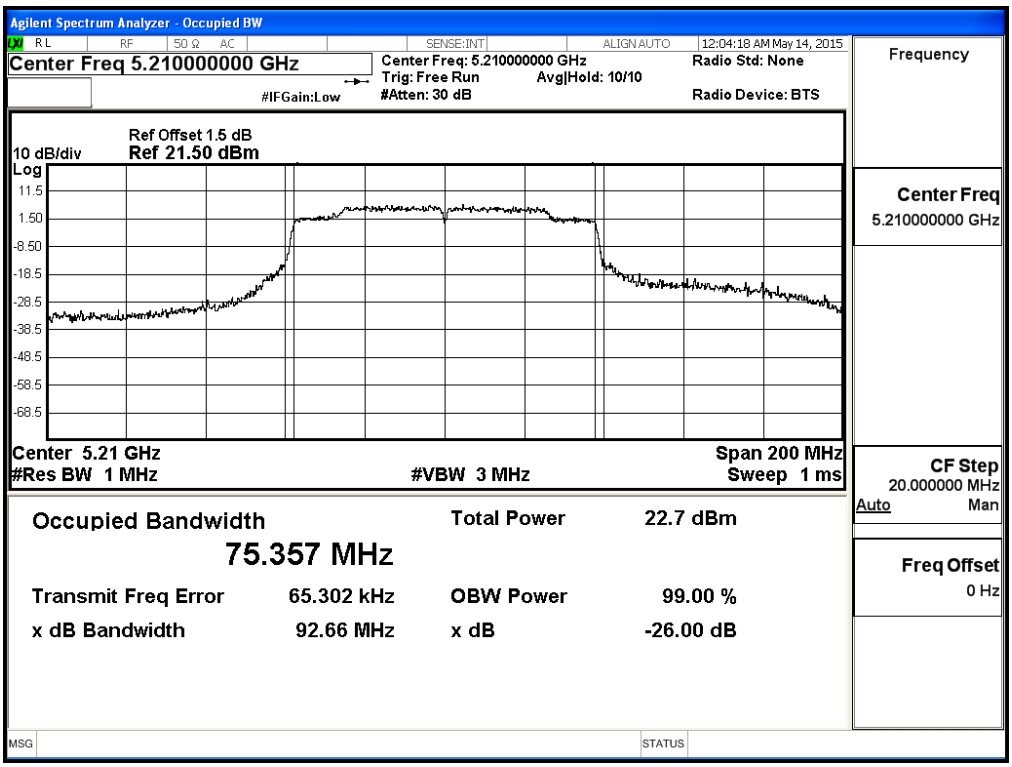
Channel Number	Frequency (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit	
							(dBm)	dBm+10log(BW)
42	5210	75.360	16.74	16.39	0.283	19.862	24	29.77
58	5290	75.270	15.94	16.39	0.283	19.464	24	29.77
106	5530	75.140	14.99	15.51	0.283	18.551	24	29.76
122	5610	82.918	18.48	19.86	0.283	22.518	24	30.19
138(Band3)	5690	82.650	19.37	19.57	0.283	22.764	24	30.17
138(Band4)	5690	9.358	10.36	14.44	0.283	16.156	30	26.71

Note:

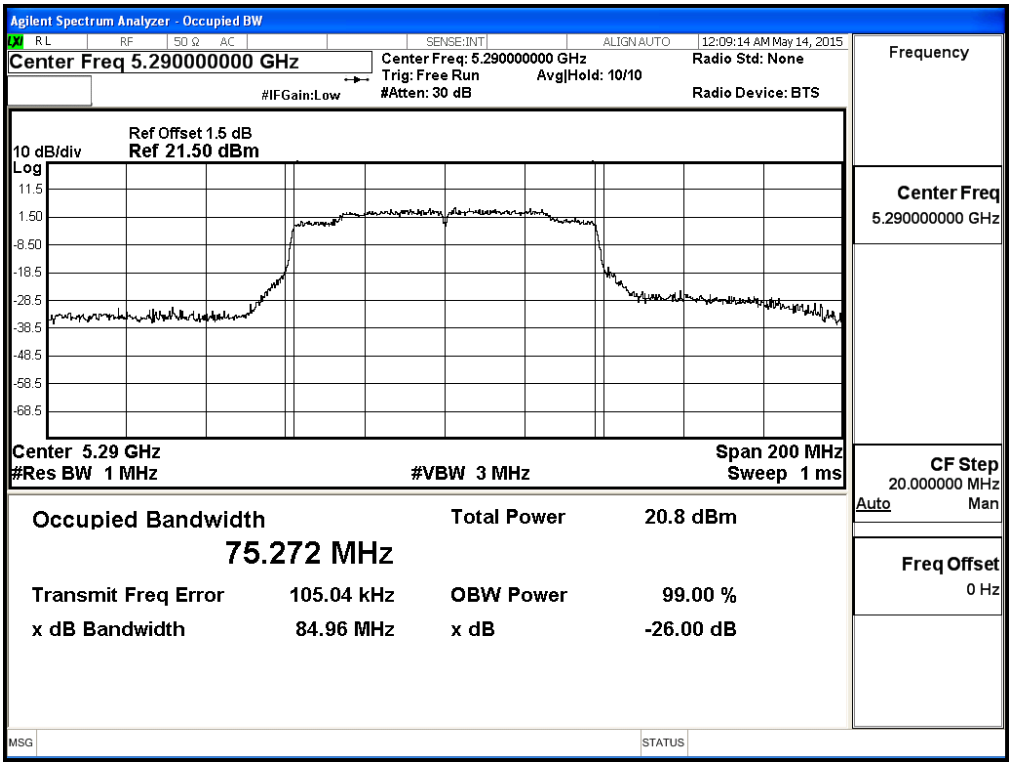
1. Total Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)) + Duty Factor.
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

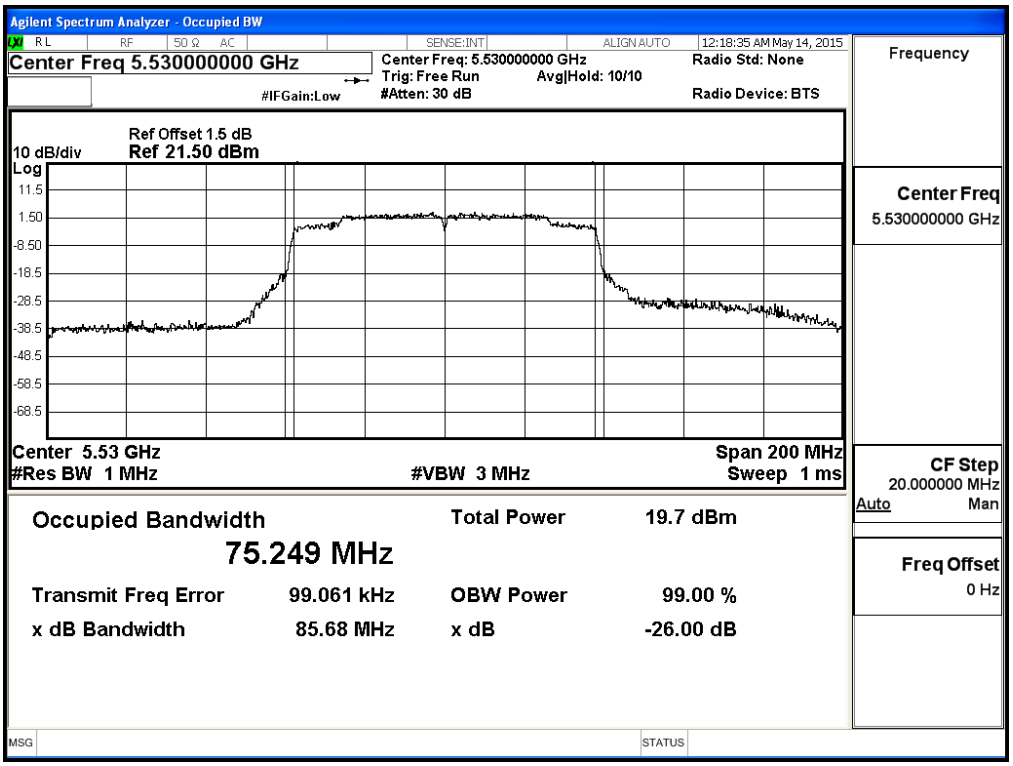
Channel 42 – Chain A



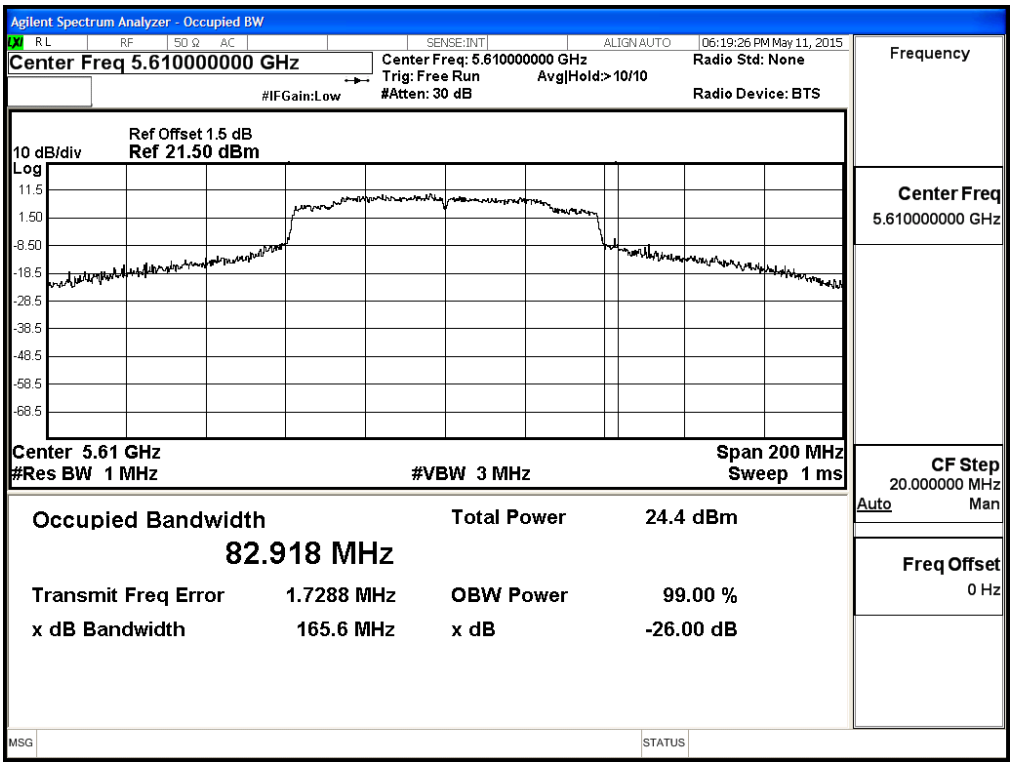
Channel 58 – Chain A



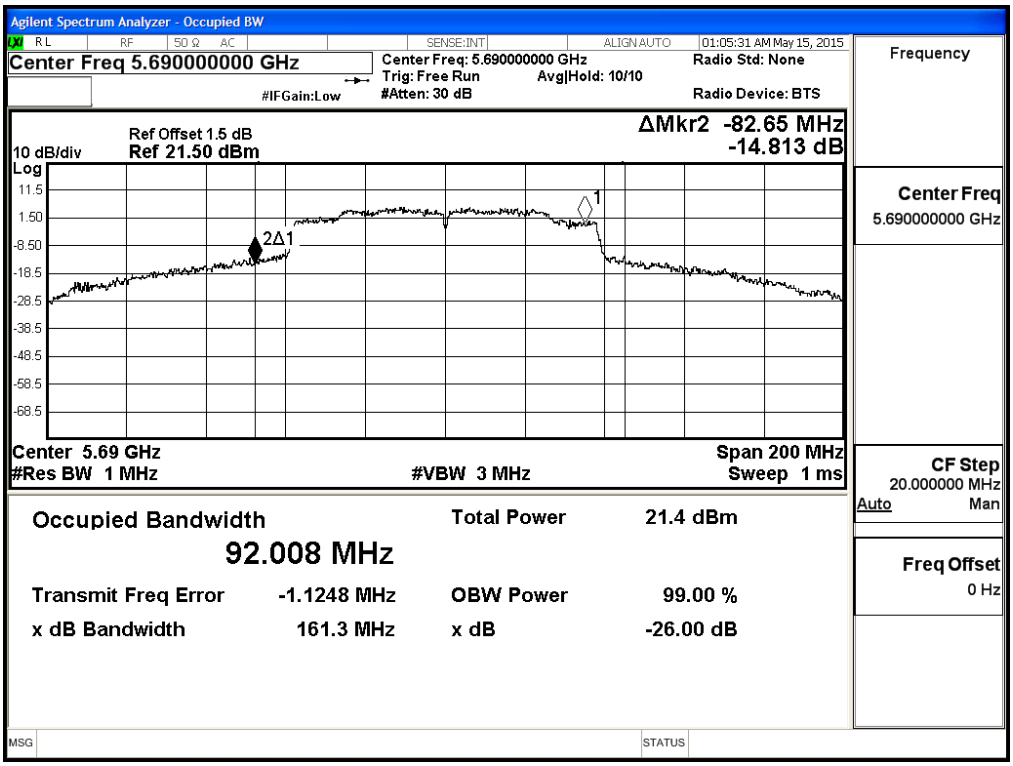
Channel 106 – Chain A



Channel 122 – Chain A

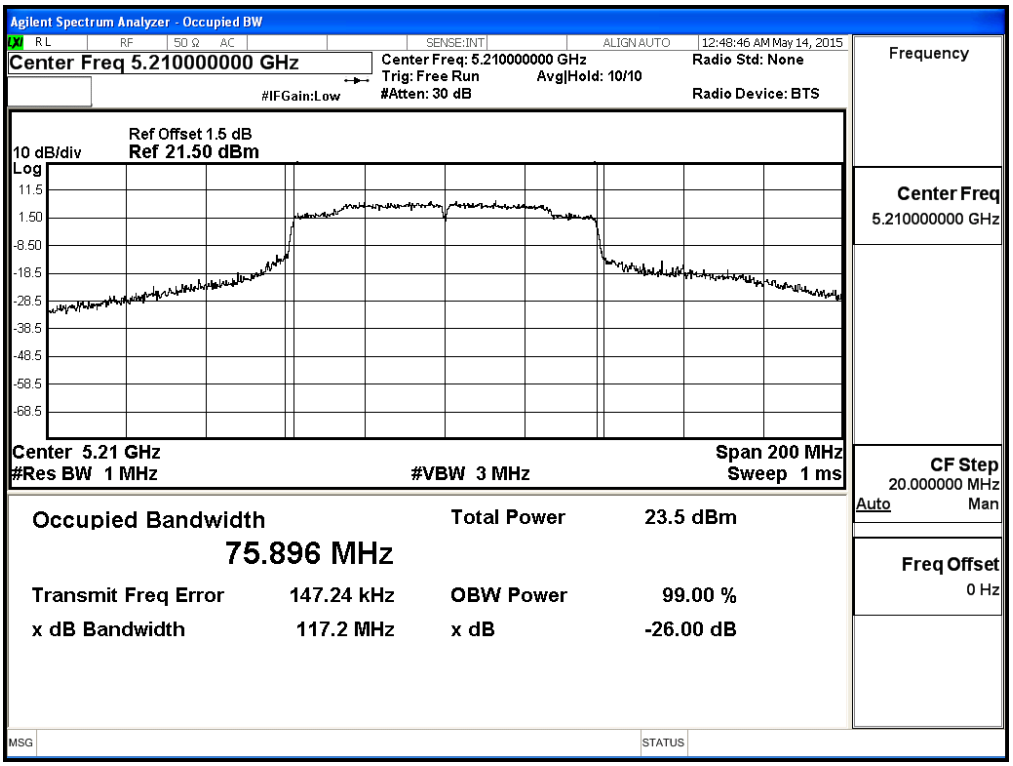


Channel 138 – Chain A

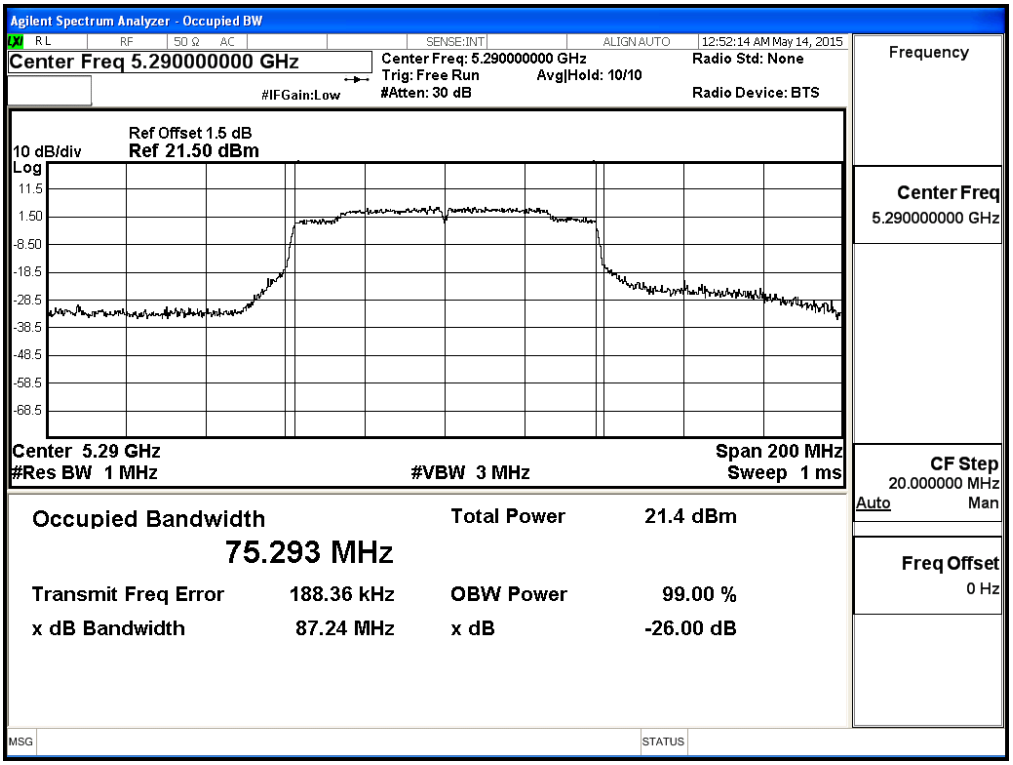


99% Occupied Bandwidth:

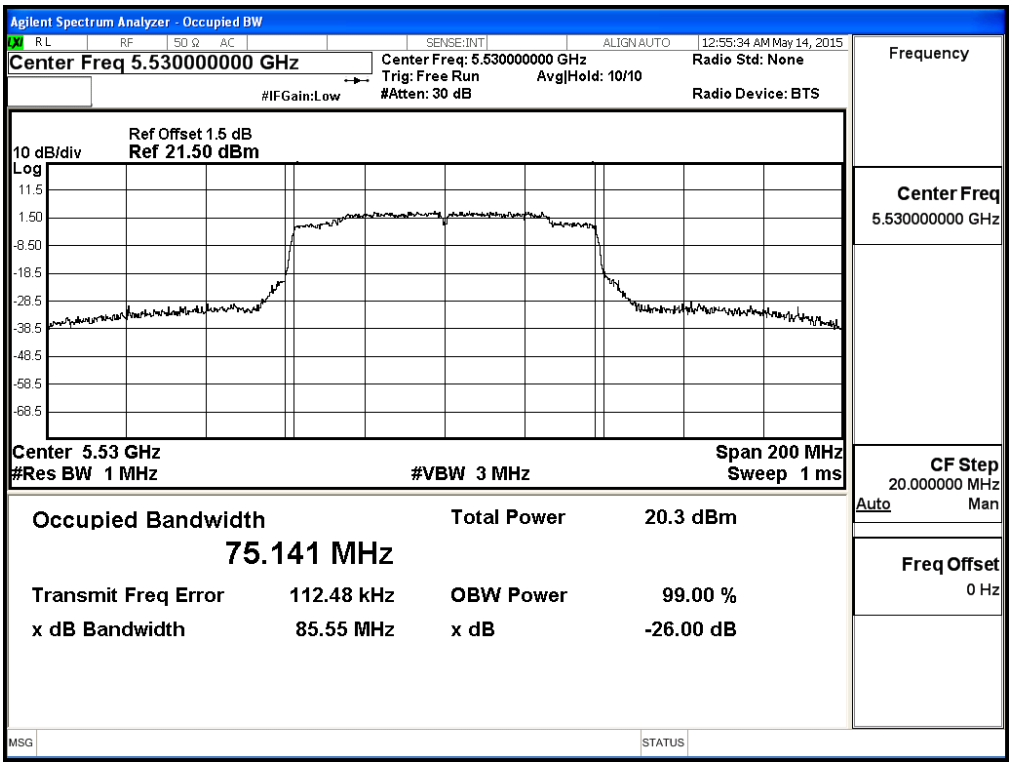
Channel 42 – Chain B



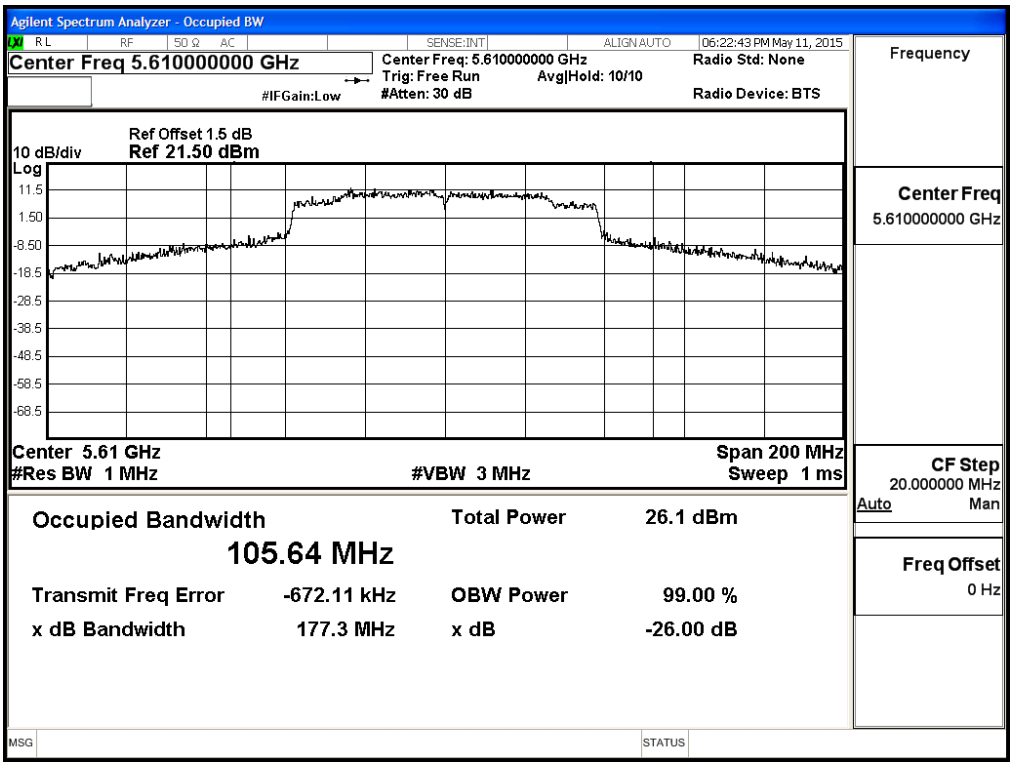
Channel 58 – Chain B



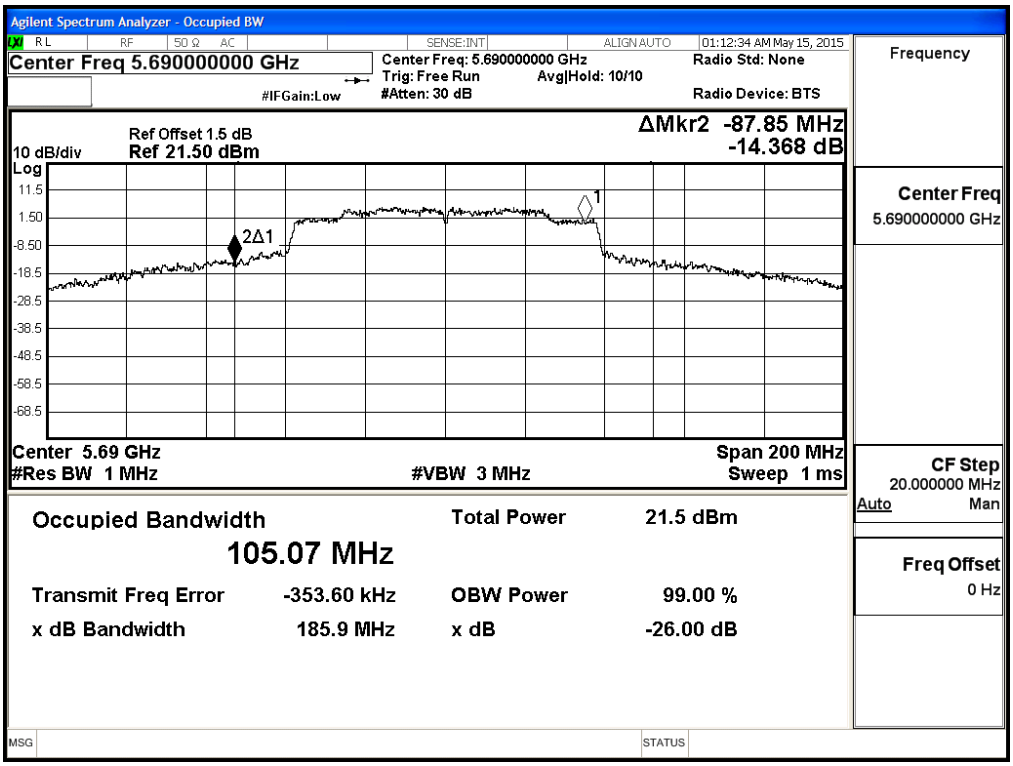
Channel 106 – Chain B



Channel 122 – Chain B

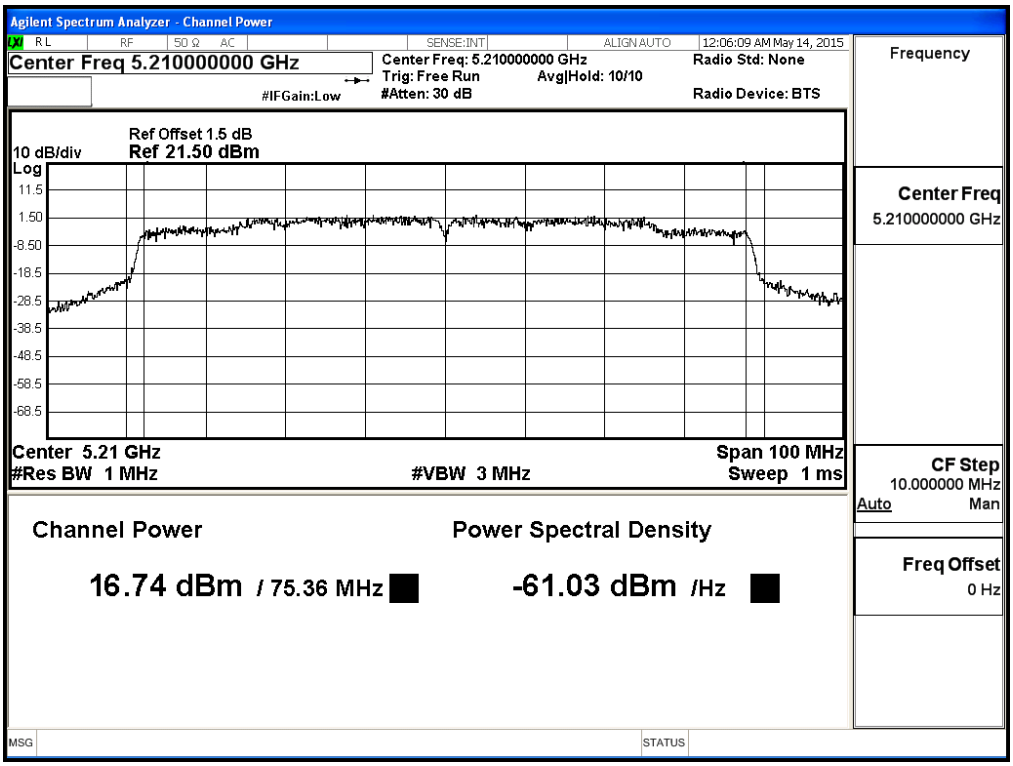


Channel 138 – Chain B



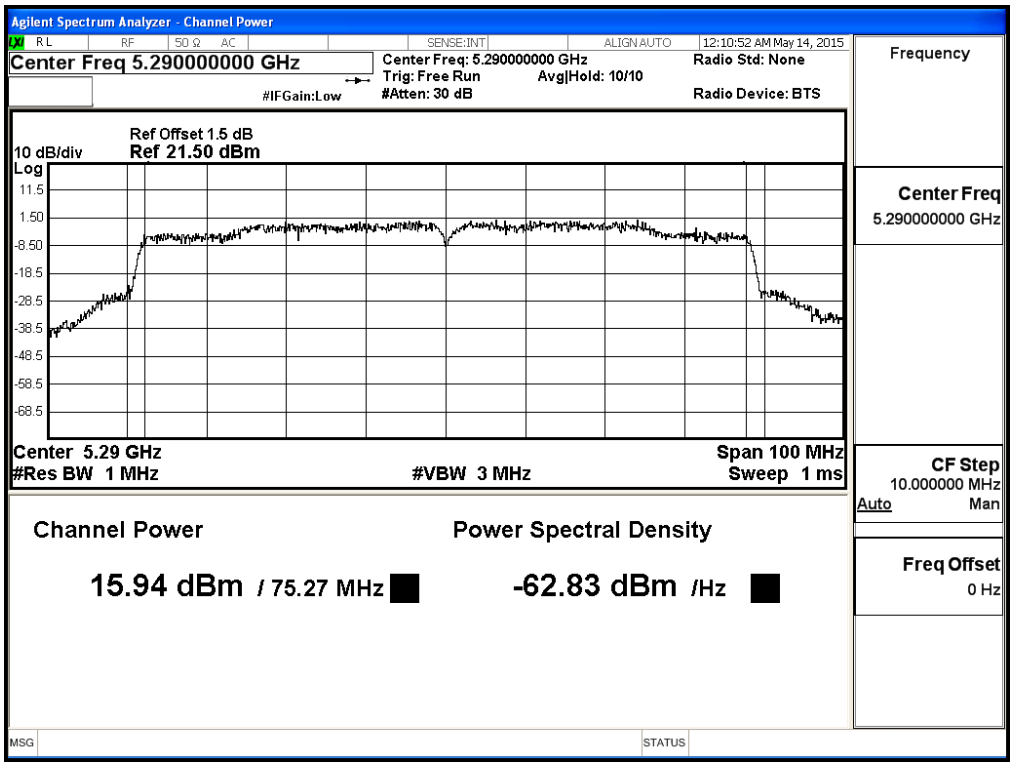
Maximum conducted output power:

Channel 42 – Chain A



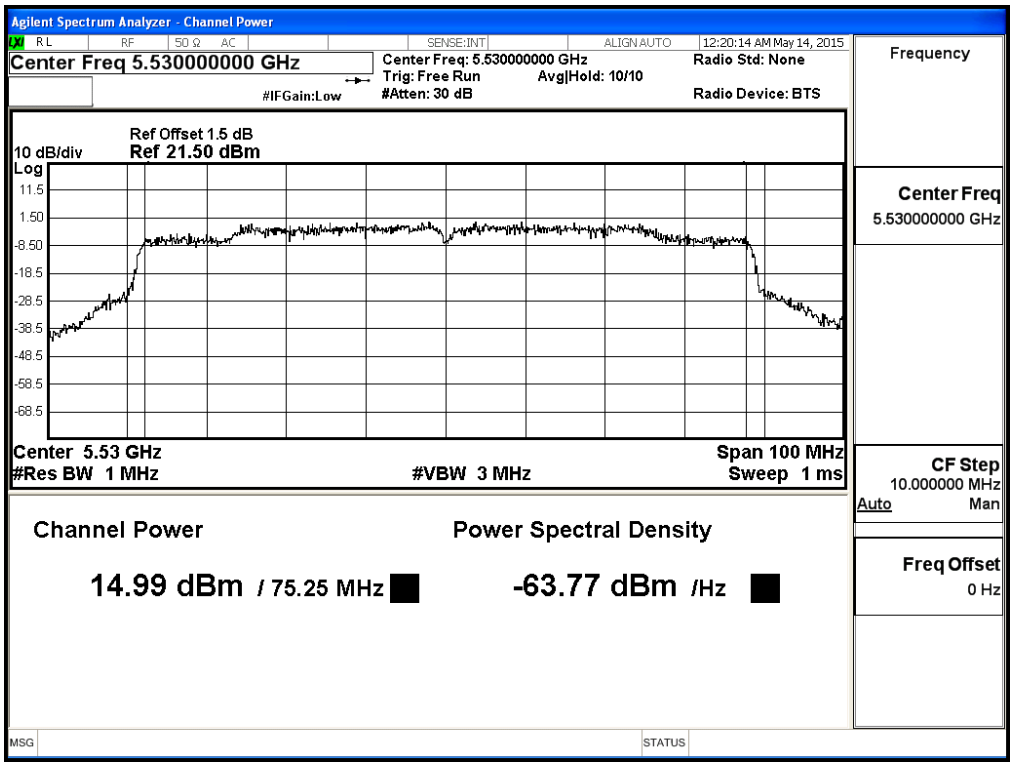
Maximum conducted output power:

Channel 58 – Chain A



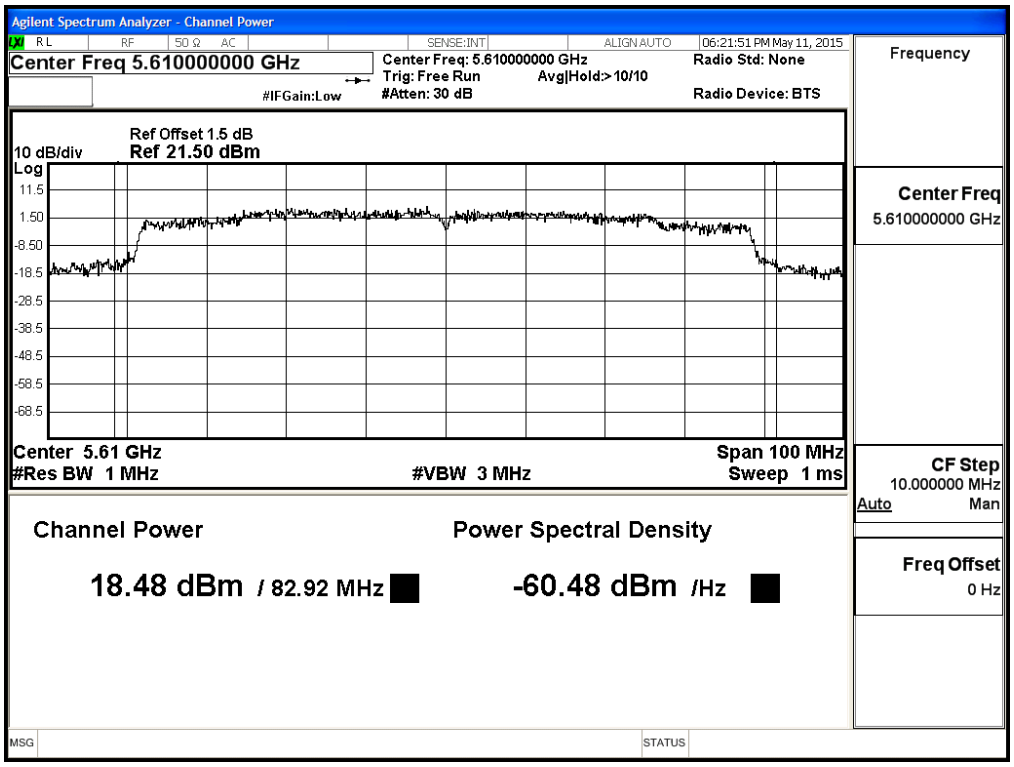
Maximum conducted output power:

Channel 106 – Chain A



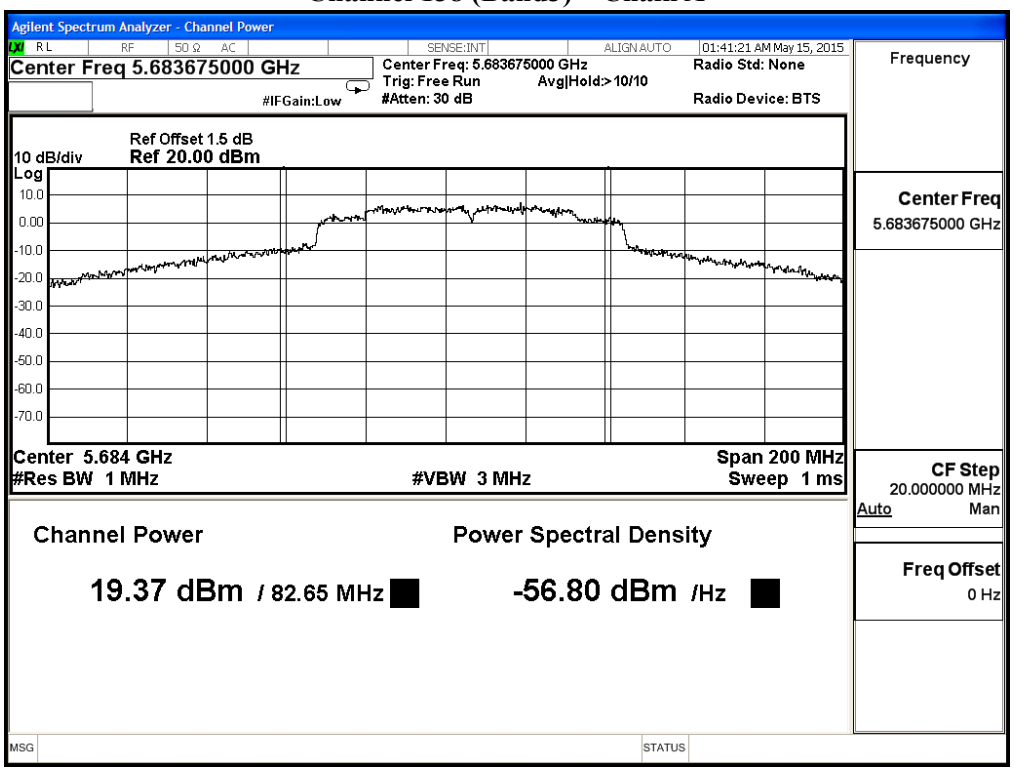
Maximum conducted output power:

Channel 122 – Chain A



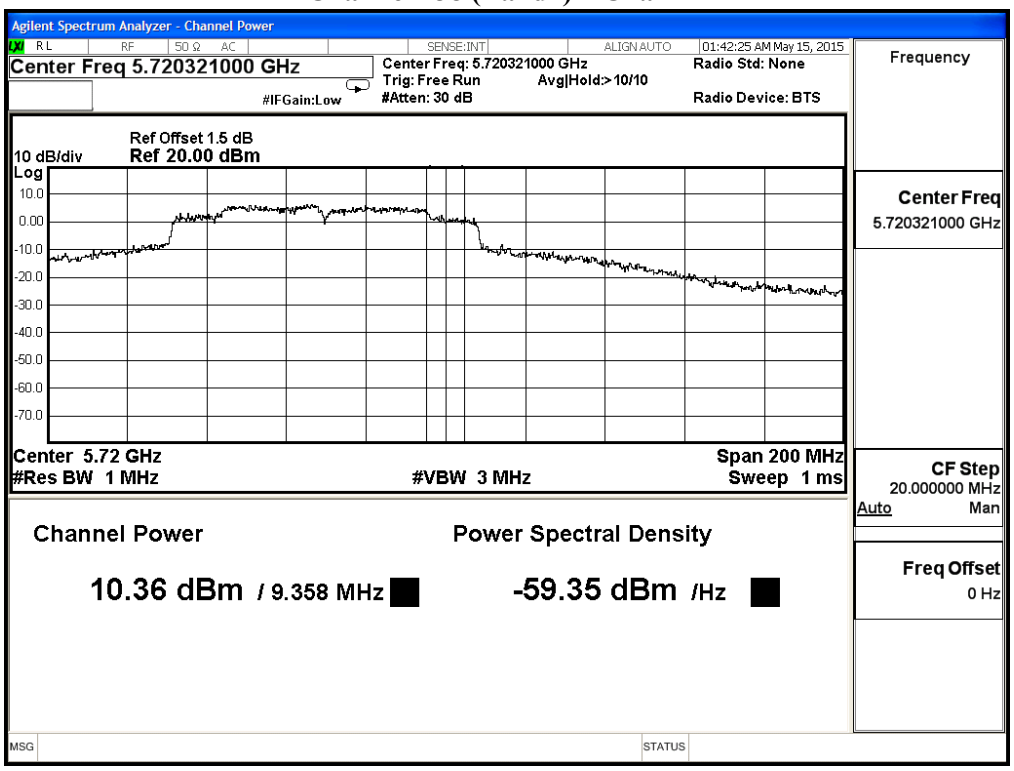
Maximum conducted output power:

Channel 138 (Band3) – Chain A



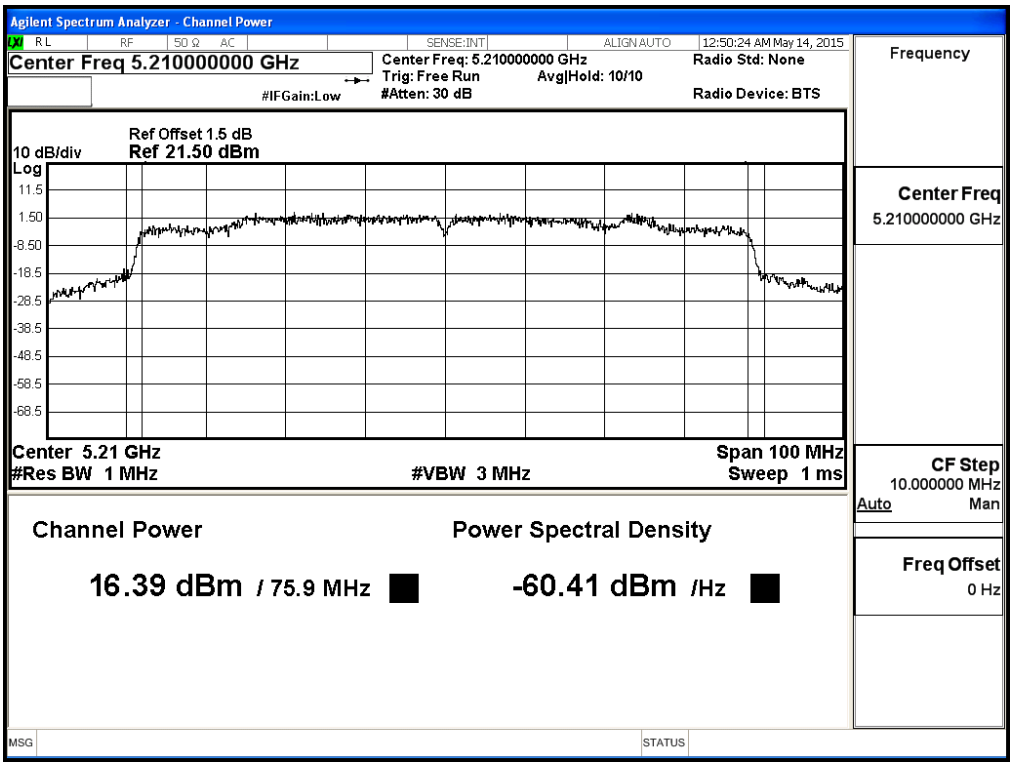
Maximum conducted output power:

Channel 138 (Band4) – Chain A



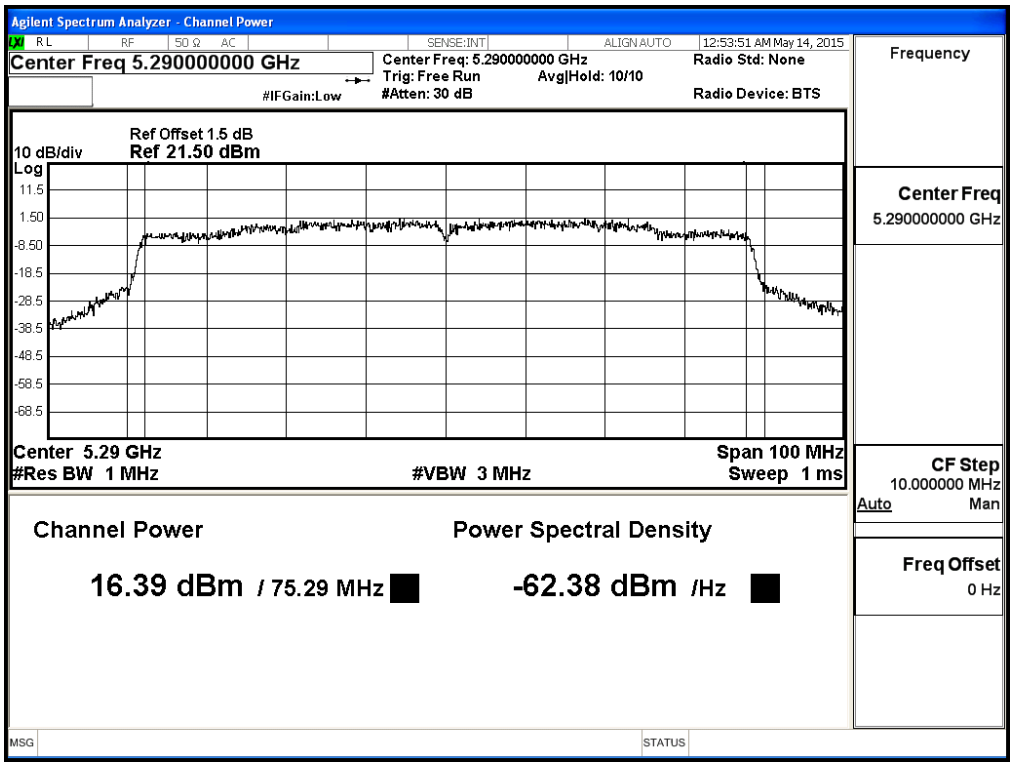
Maximum conducted output power:

Channel 42 – Chain B



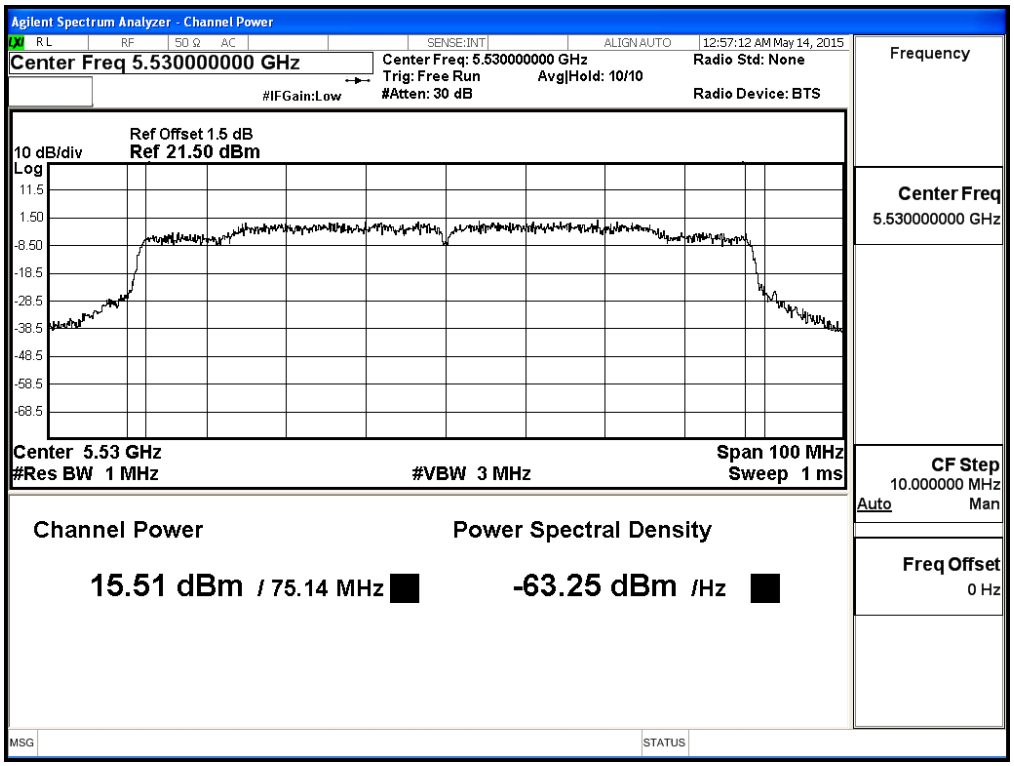
Maximum conducted output power:

Channel 58 – Chain B



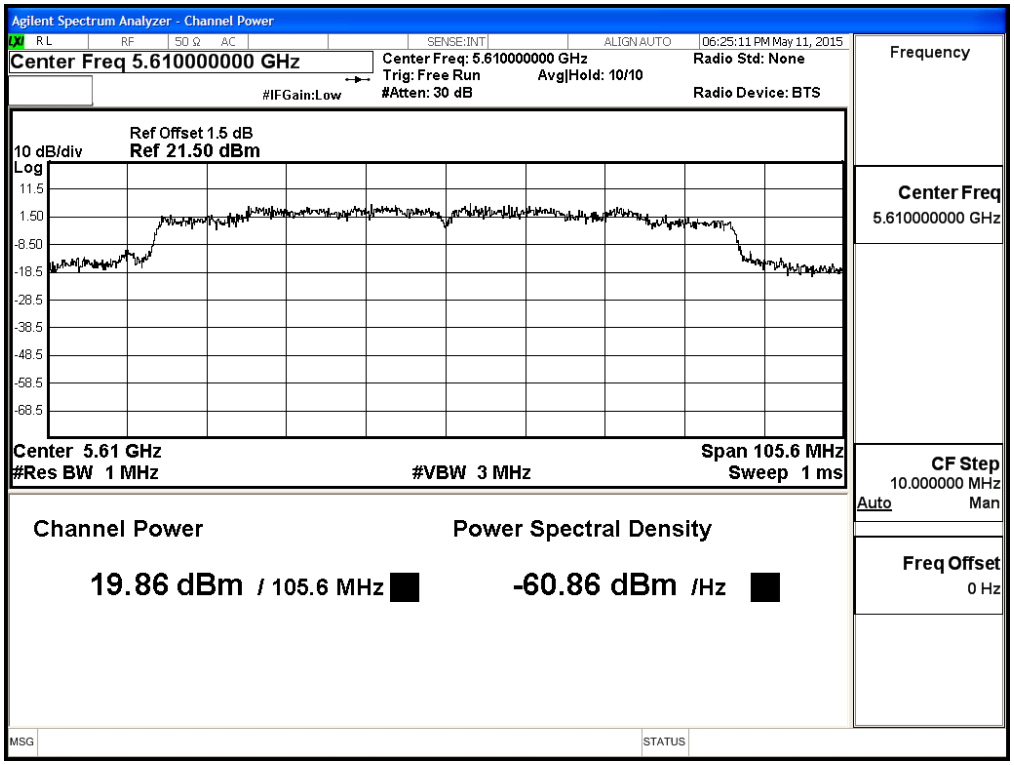
Maximum conducted output power:

Channel 106 – Chain B



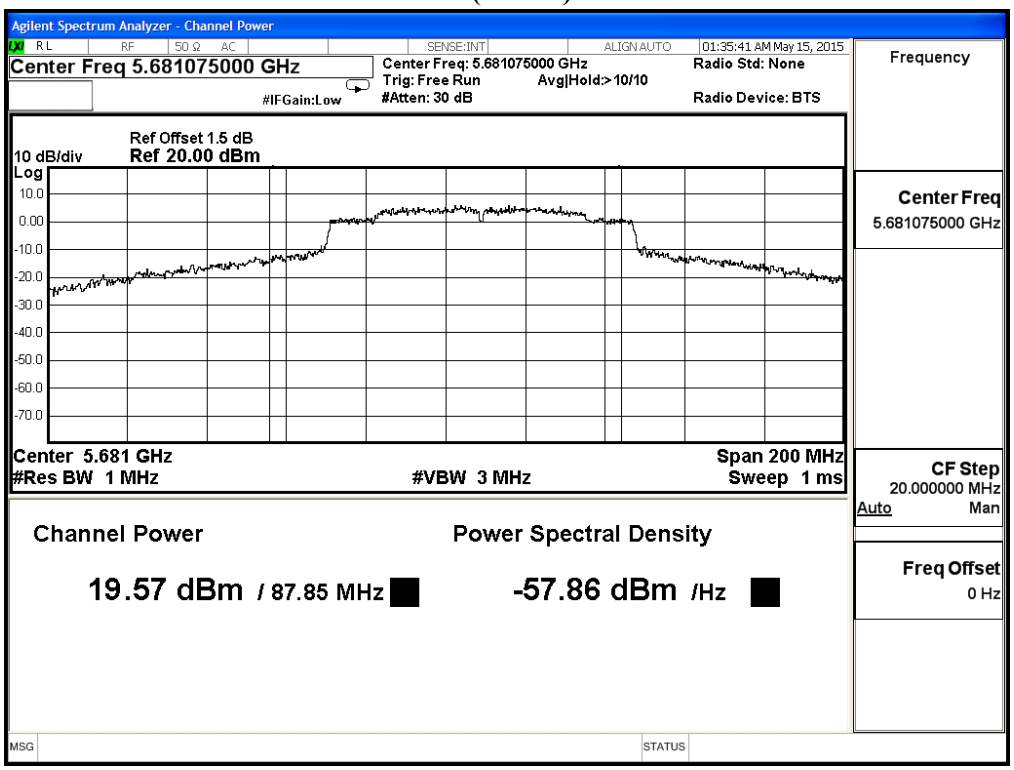
Maximum conducted output power:

Channel 122 – Chain B



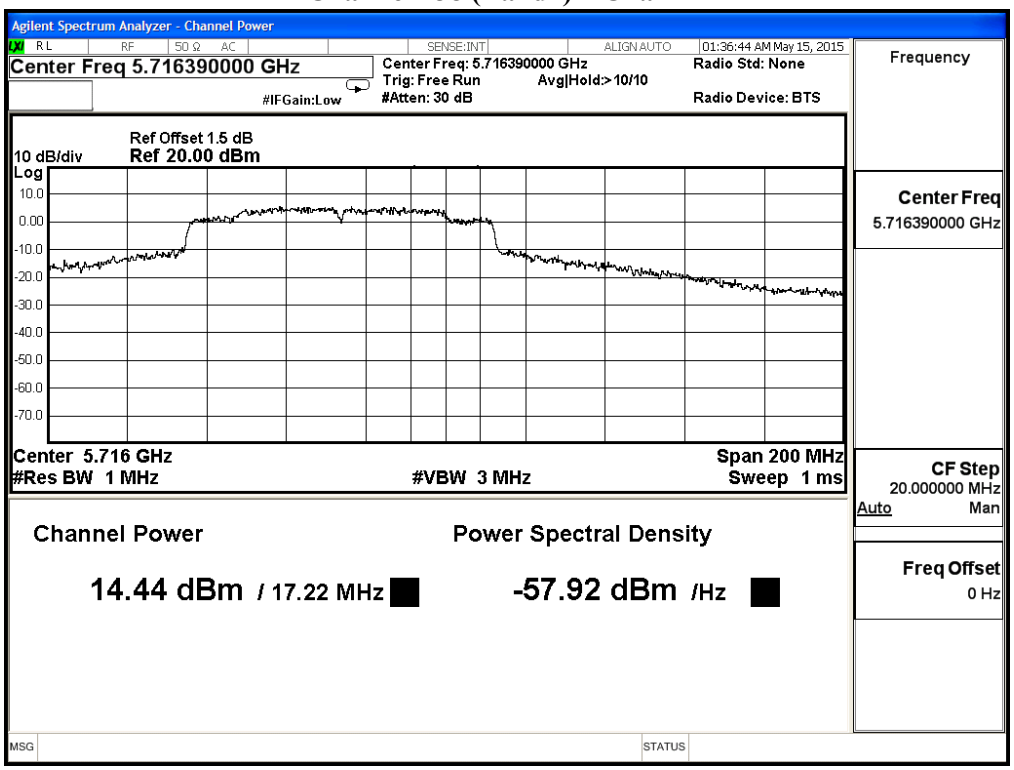
Maximum conducted output power:

Channel 138 (Band3) – Chain B



Maximum conducted output power:

Channel 138 (Band4) – Chain B



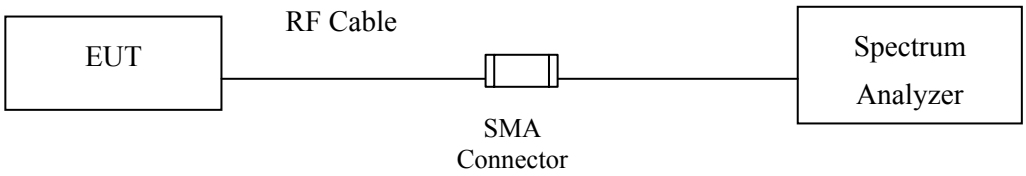
4. Peak Power Spectral Density

4.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2014
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2014
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr, 2015

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.

4.2. Test Setup



4.3. Limits

(1) For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-topoint U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the

equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.+

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point UNII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

4.4. Test Procedure

The EUT was setup to ANSI C63.10, 2009; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.
The Peak Power Spectral Density using KDB 789033 section F) procedure, Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer.
SA-1 method is selected to run the test.
For the band 5.725-5.85 GHz, Scale the observed power level to an equivalent value in 500 kHz by adjusting (increase) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log (500 kHz/100 kHz) = 6.98 dB.

4.5. Uncertainty

± 1.27 dB

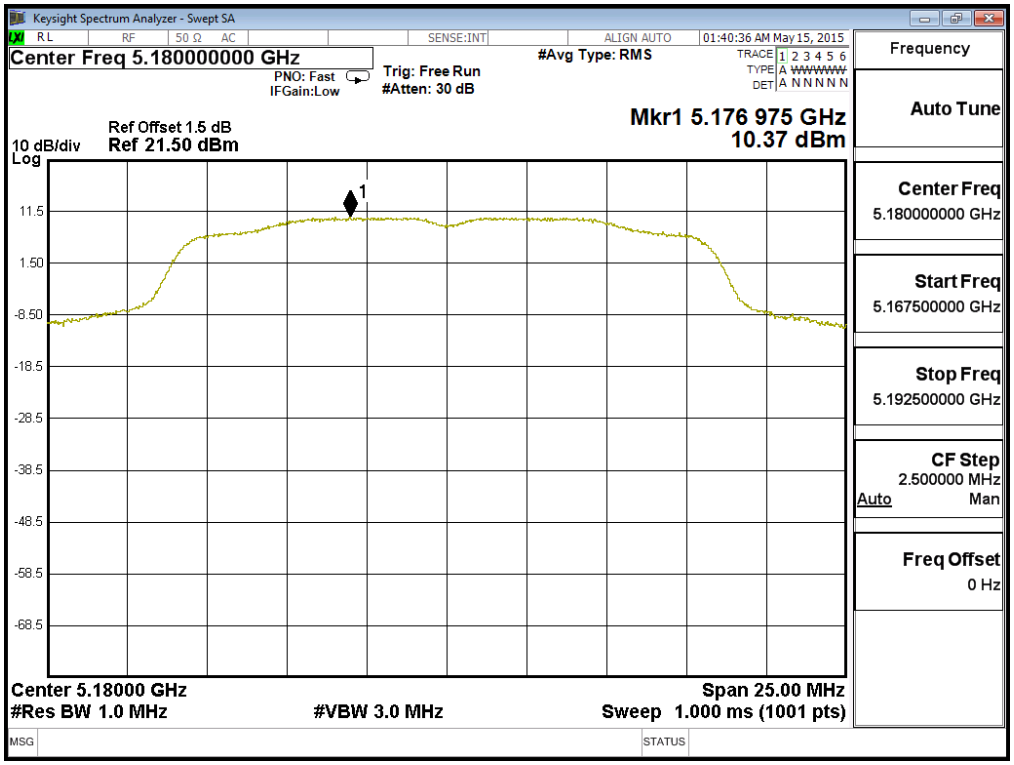
4.6. Test Result of Peak Power Spectral Density

Product : Intel® Dual Band Wireless-AC 8260
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps)

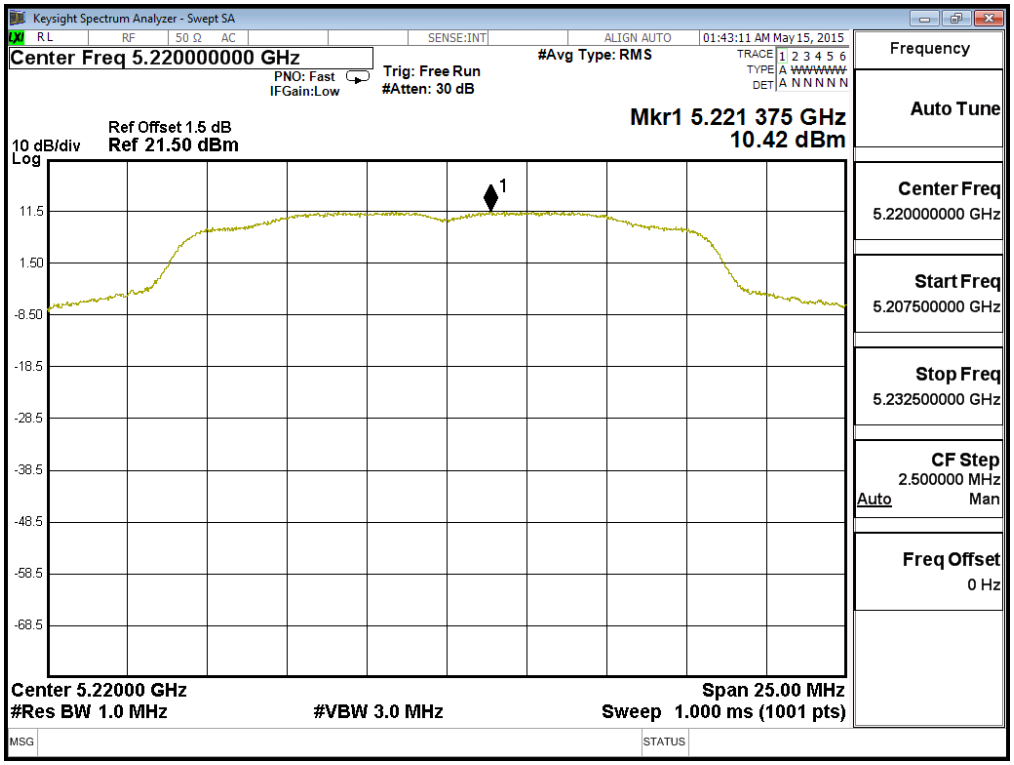
Channel Number	Frequency (MHz)	PPSD (dBm)	Duty Factor (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
36	5180	10.375	0.079	10.454	<11	Pass
44	5220	10.419	0.079	10.498	<11	Pass
48	5240	10.470	0.079	10.549	<11	Pass
52	5260	10.495	0.079	10.574	<11	Pass
60	5300	10.451	0.079	10.530	<11	Pass
64	5320	8.909	0.079	8.988	<11	Pass
100	5500	9.270	0.079	9.349	<11	Pass
116	5580	10.880	0.079	10.959	<11	Pass
140	5700	10.862	0.079	10.941	<11	Pass

Note: Total PPSD = PPSD value + Duty Factor

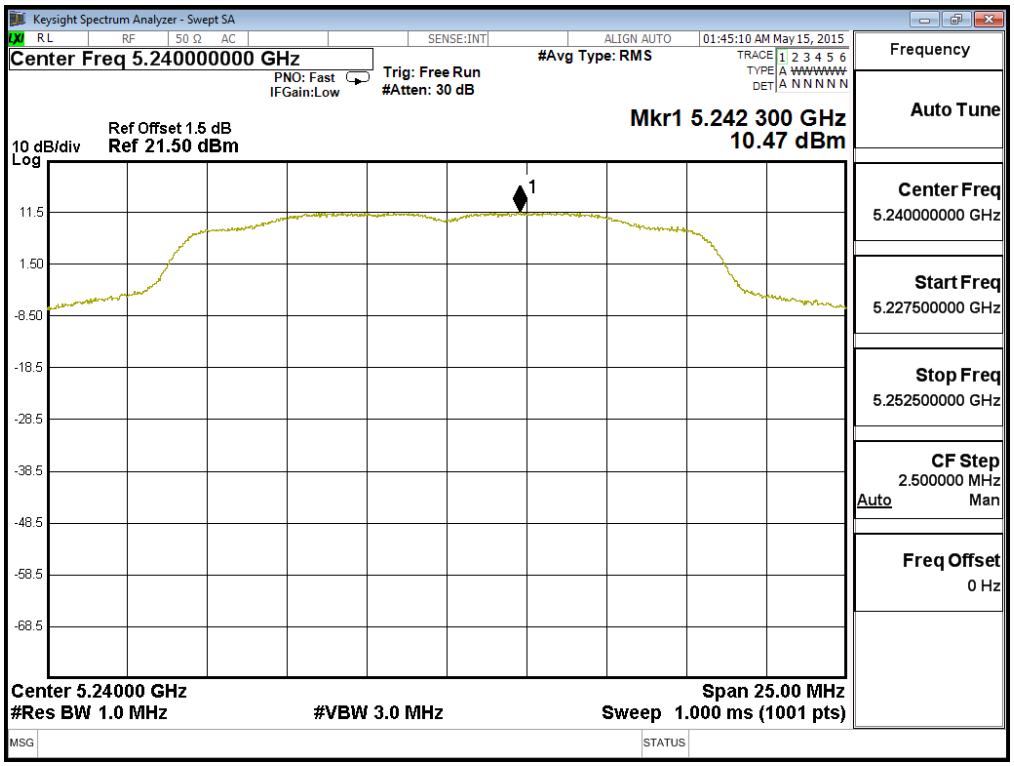
Channel 36:



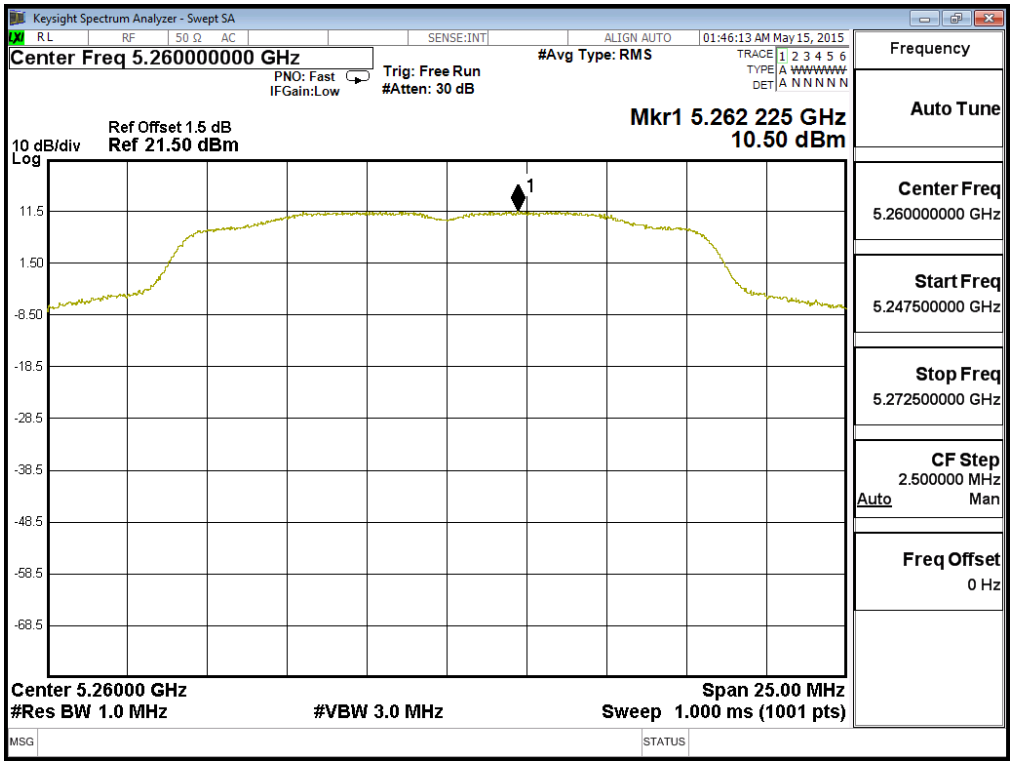
Channel 44:



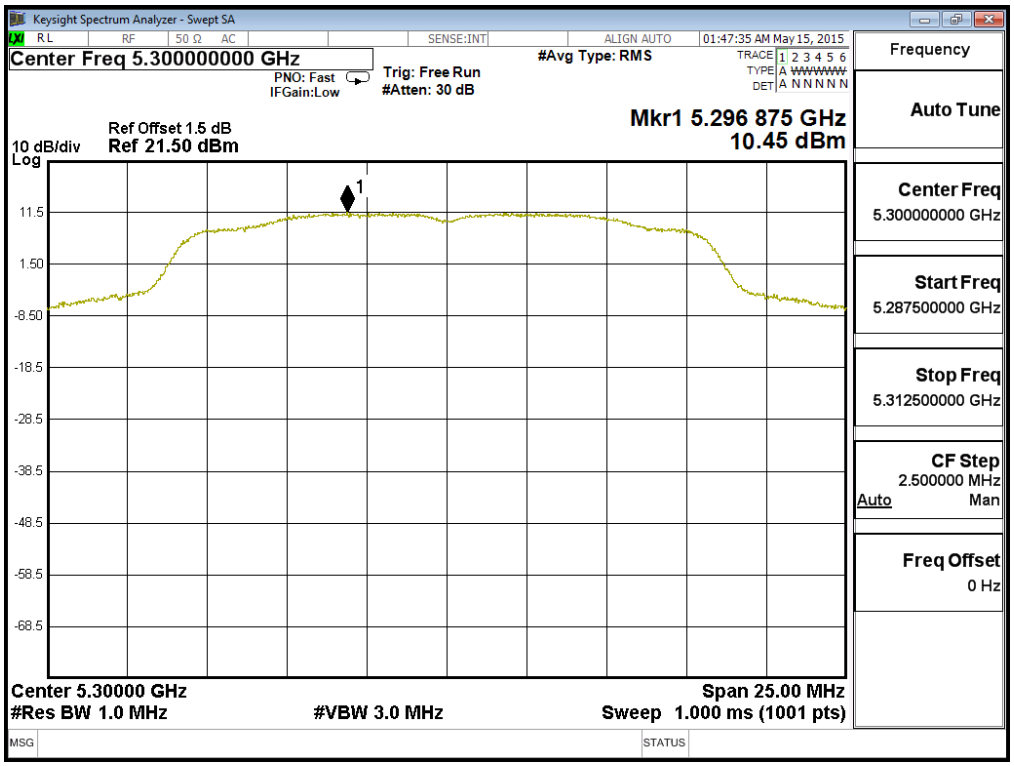
Channel 48:



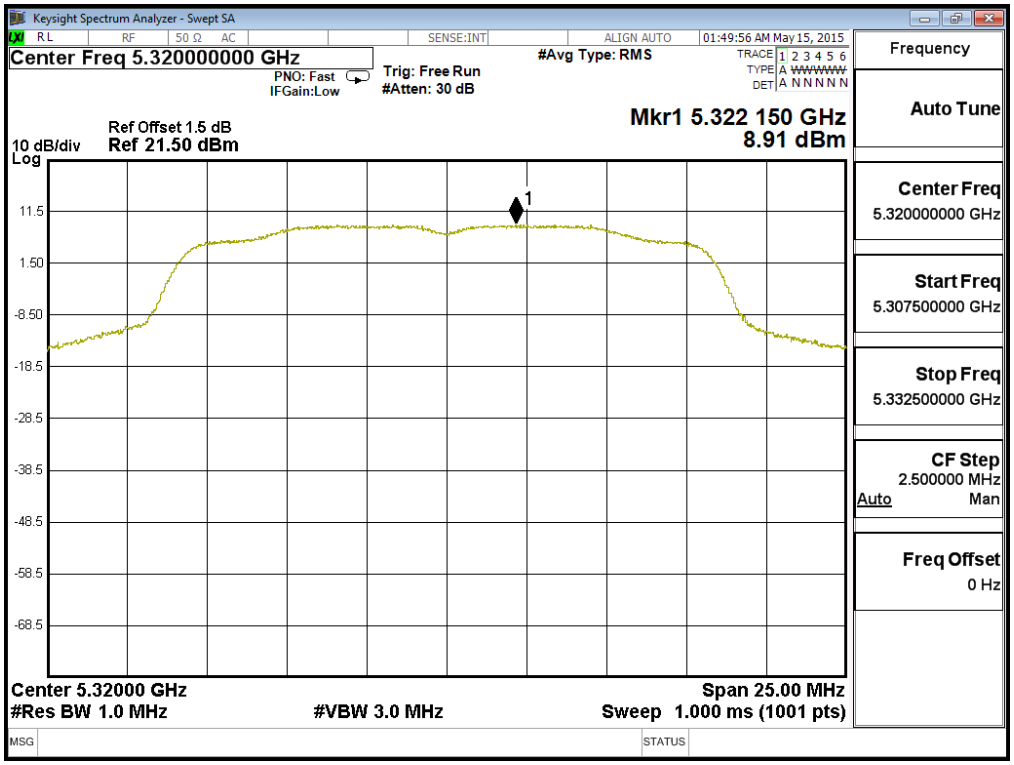
Channel 52:



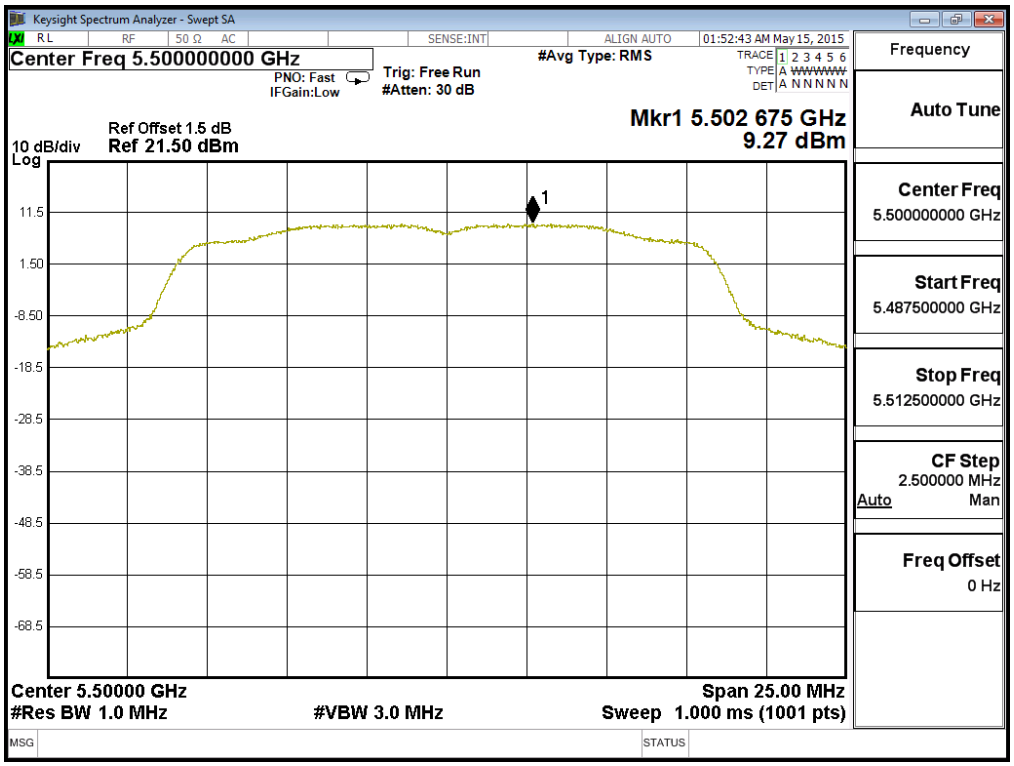
Channel 60:



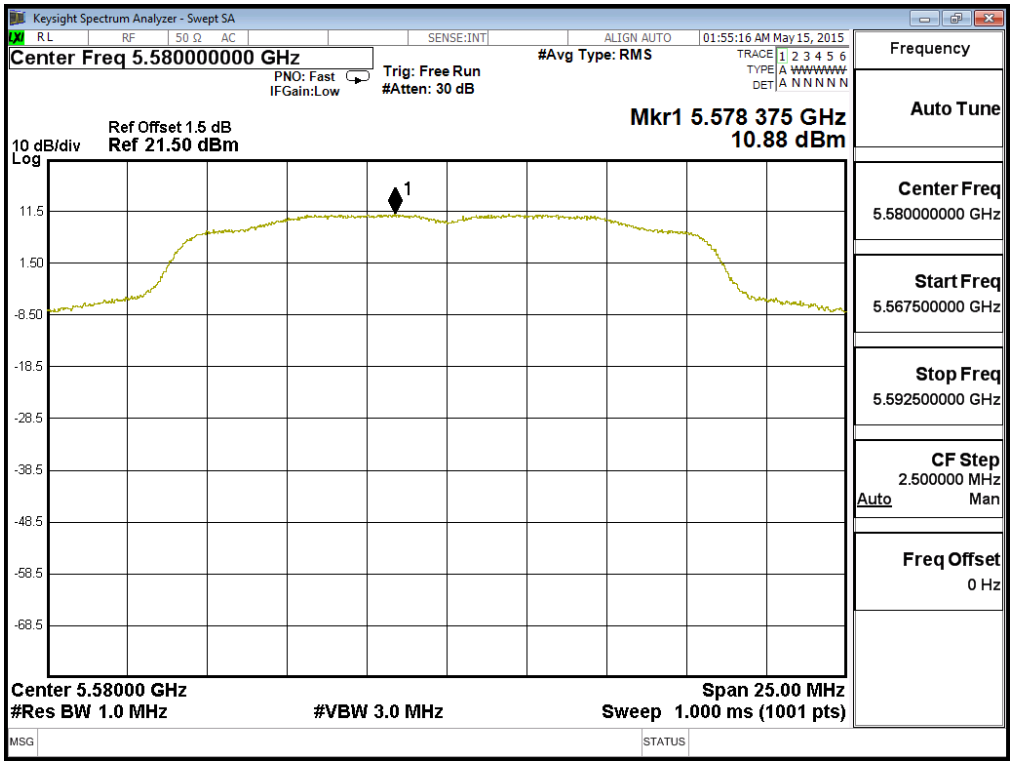
Channel 64:



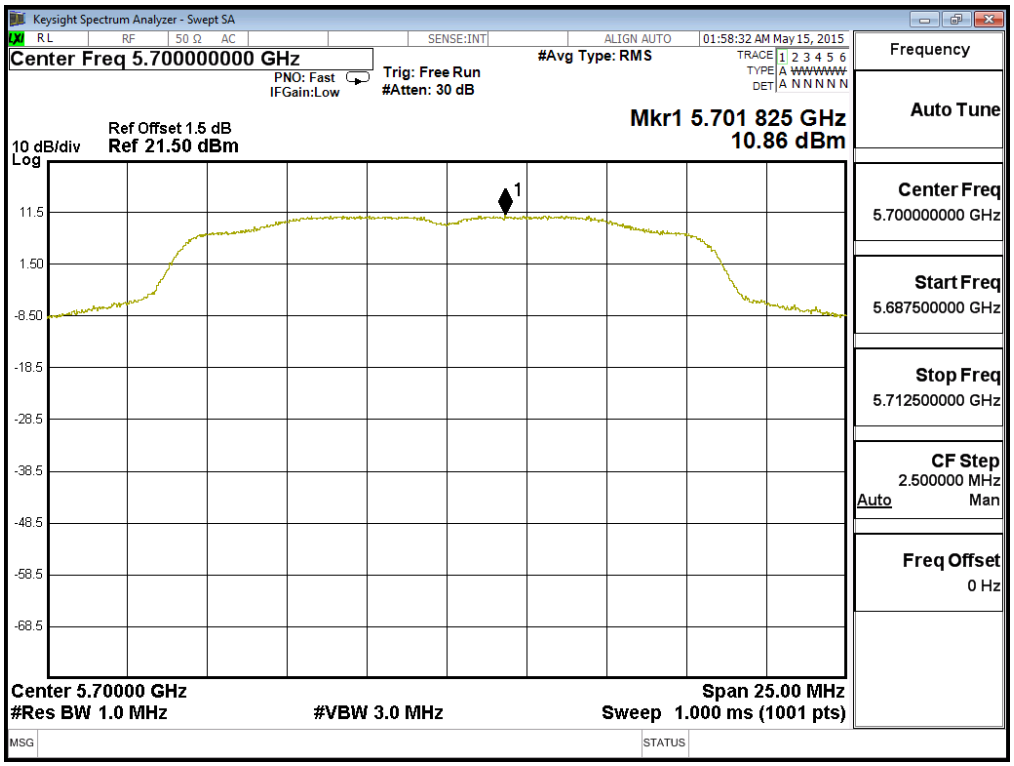
Channel 100:



Channel 116:



Channel 140:

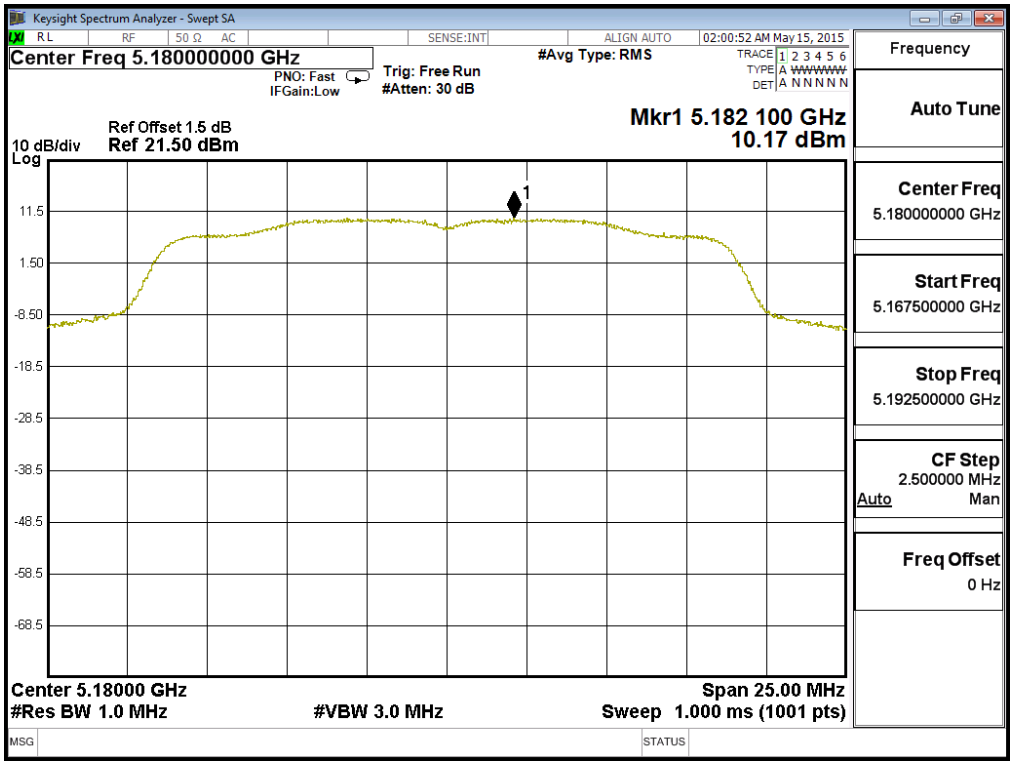

Keysight Spectrum Analyzer - Swept SA
Center Freq 5.700000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
01:58:32 AM May 15, 2015
Mkr1 5.701 825 GHz
10.86 dBm
Ref Offset 1.5 dB
10 dB/div
Ref 21.50 dBm
Log
11.5
1.50
-8.50
-18.5
-28.5
-38.5
-48.5
-58.5
-68.5
Center 5.70000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 25.00 MHz
Sweep 1.000 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.700000000 GHz
Start Freq
5.687500000 GHz
Stop Freq
5.712500000 GHz
CF Step
2.500000 MHz
Auto
Man
Freq Offset
0 Hz

Product : Intel® Dual Band Wireless-AC 8260
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW 7.2Mbps)

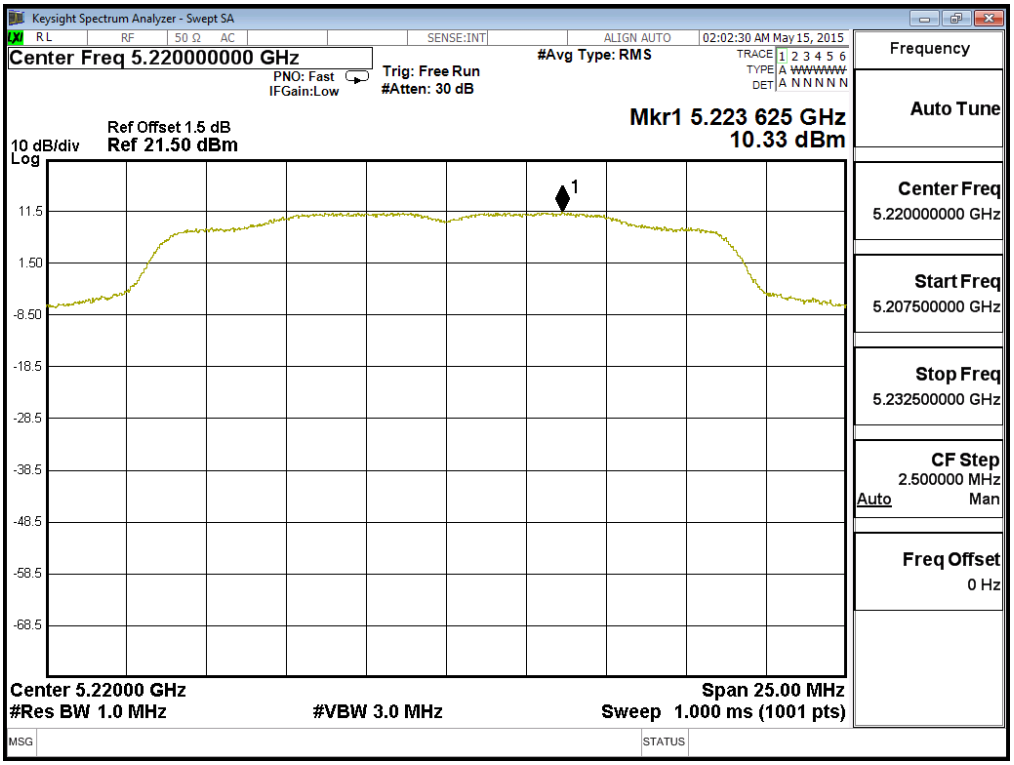
Channel Number	Frequency (MHz)	PPSD (dBm)	Duty Factor (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
36	5180	10.167	0.088	10.255	<11	Pass
44	5220	10.328	0.088	10.416	<11	Pass
48	5240	10.391	0.088	10.479	<11	Pass
52	5260	10.390	0.088	10.478	<11	Pass
60	5300	10.400	0.088	10.488	<11	Pass
64	5320	8.558	0.088	8.646	<11	Pass
100	5500	8.921	0.088	9.009	<11	Pass
116	5580	10.760	0.088	10.848	<11	Pass
140	5700	6.413	0.088	6.501	<11	Pass

Note: Total PPSD = PPSD value + Duty Factor

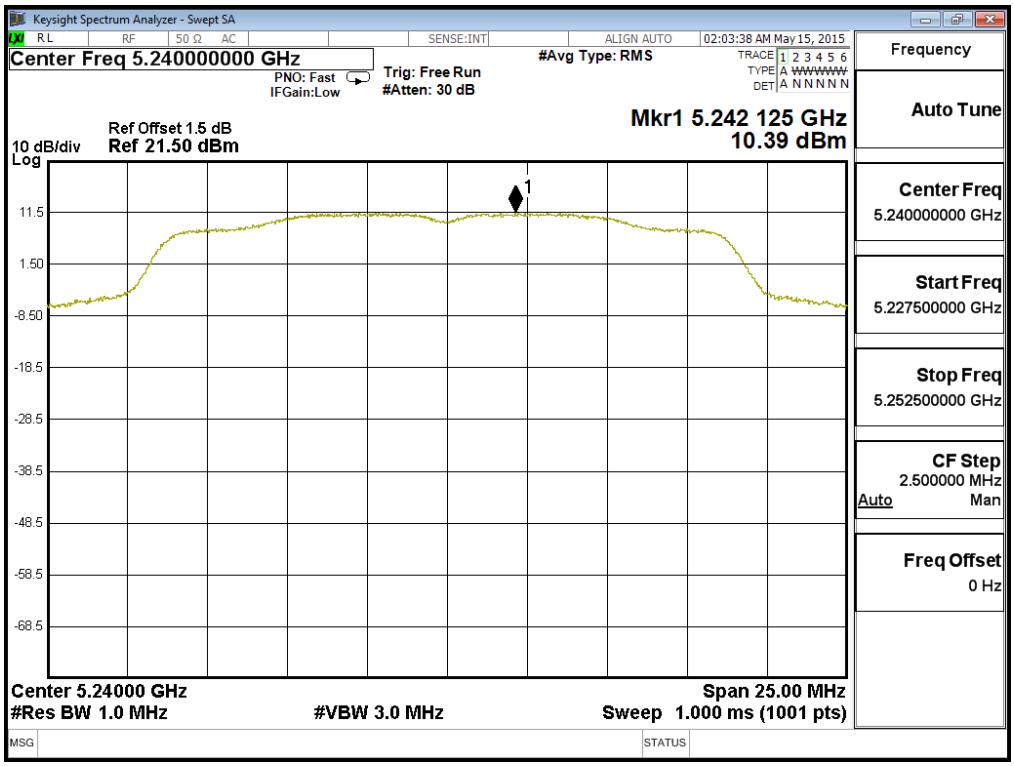
Channel 36



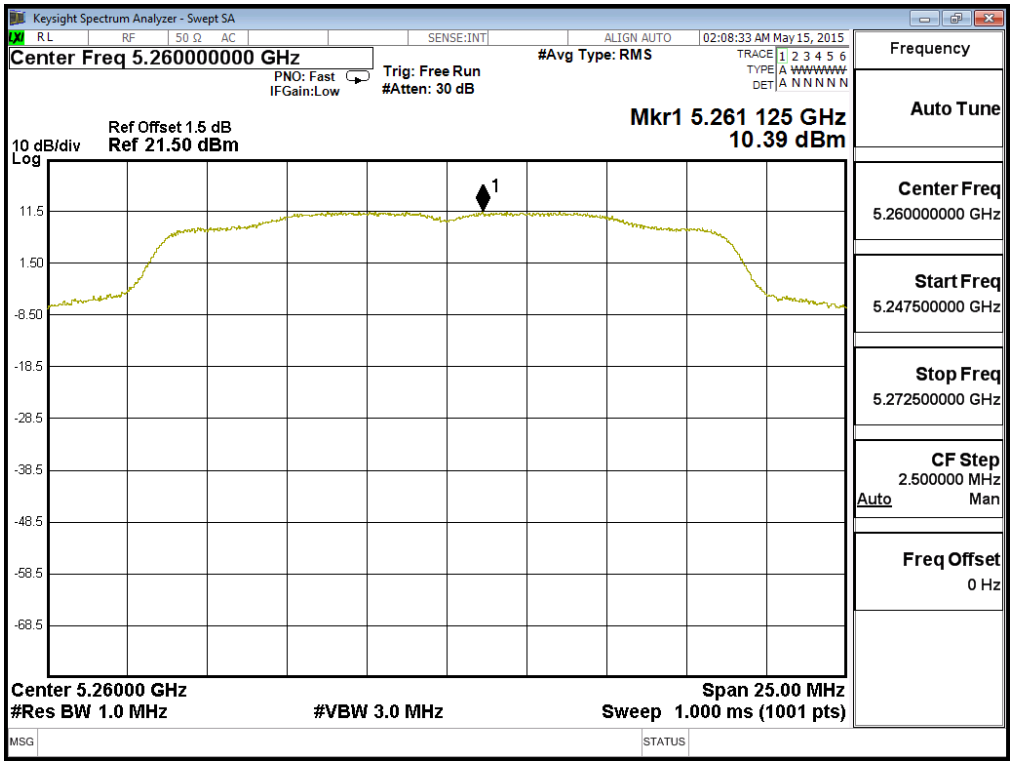
Channel 44



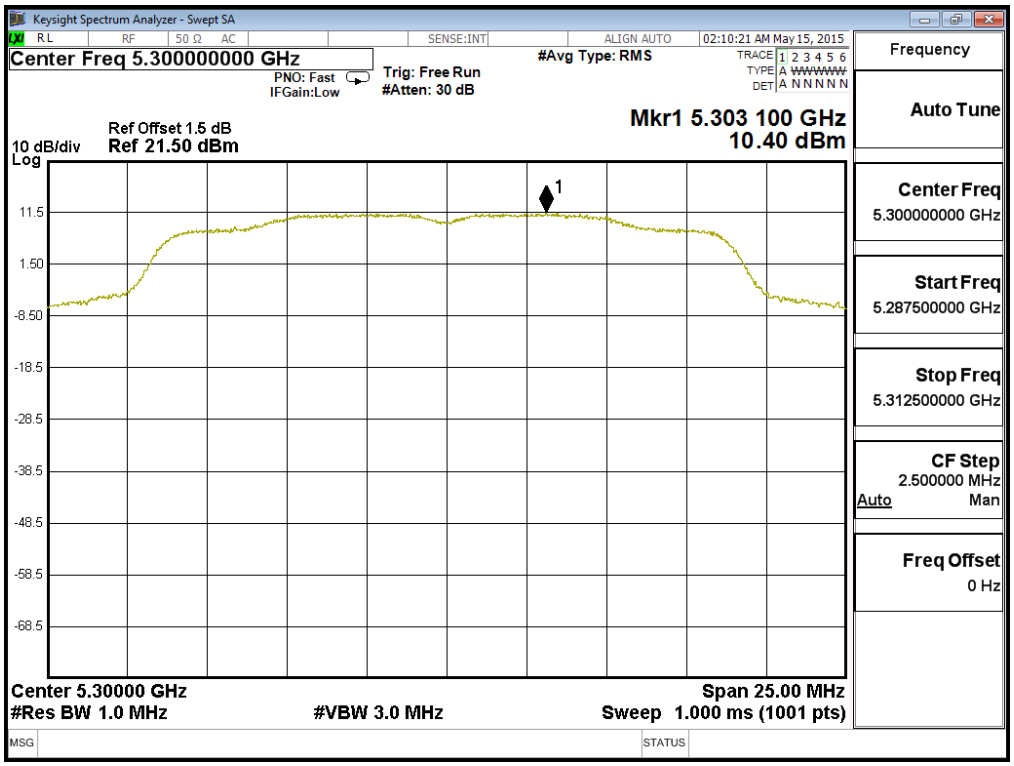
Channel 48



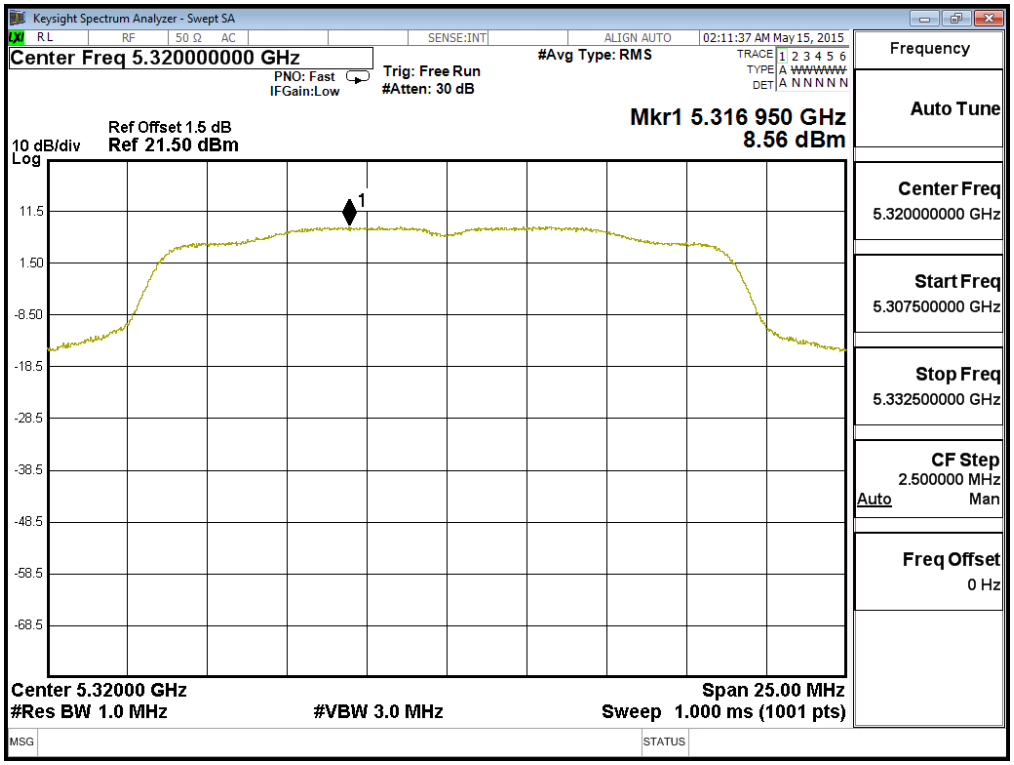
Channel 52



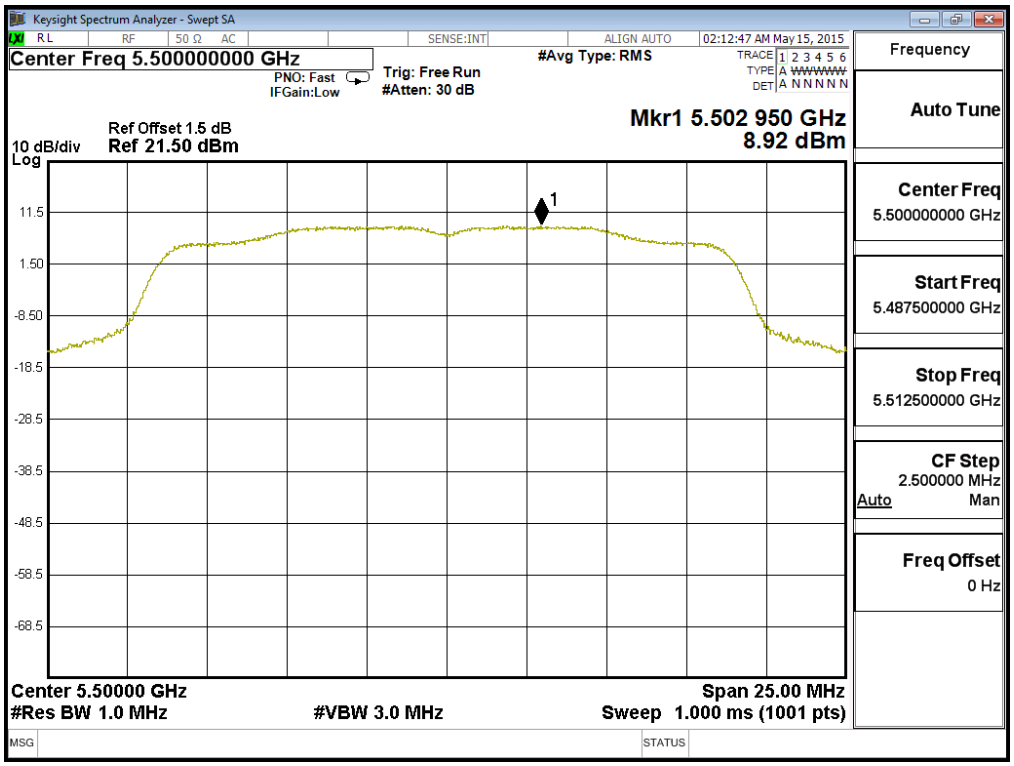
Channel 60



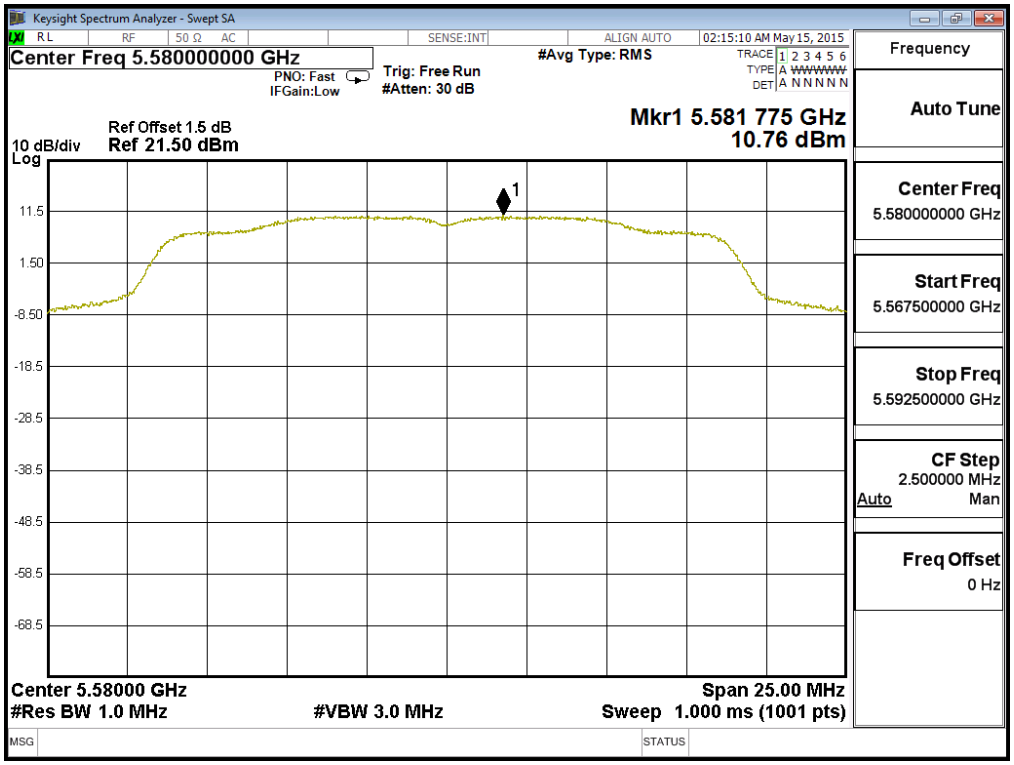
Channel 64



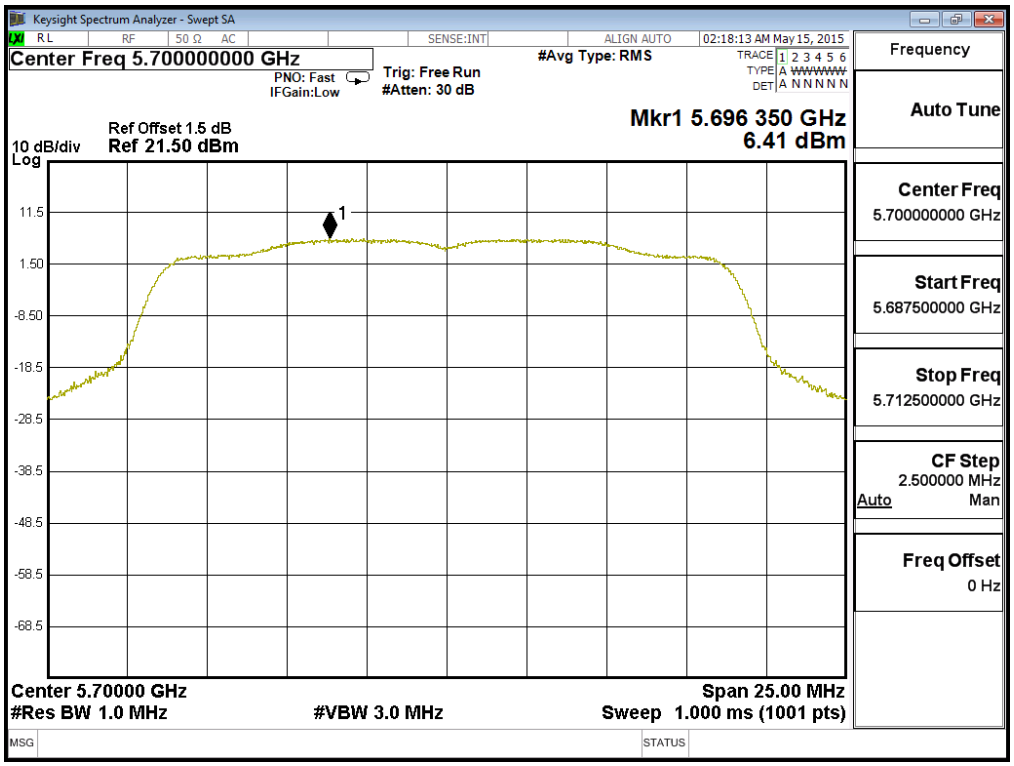
Channel 100



Channel 116



Channel 140

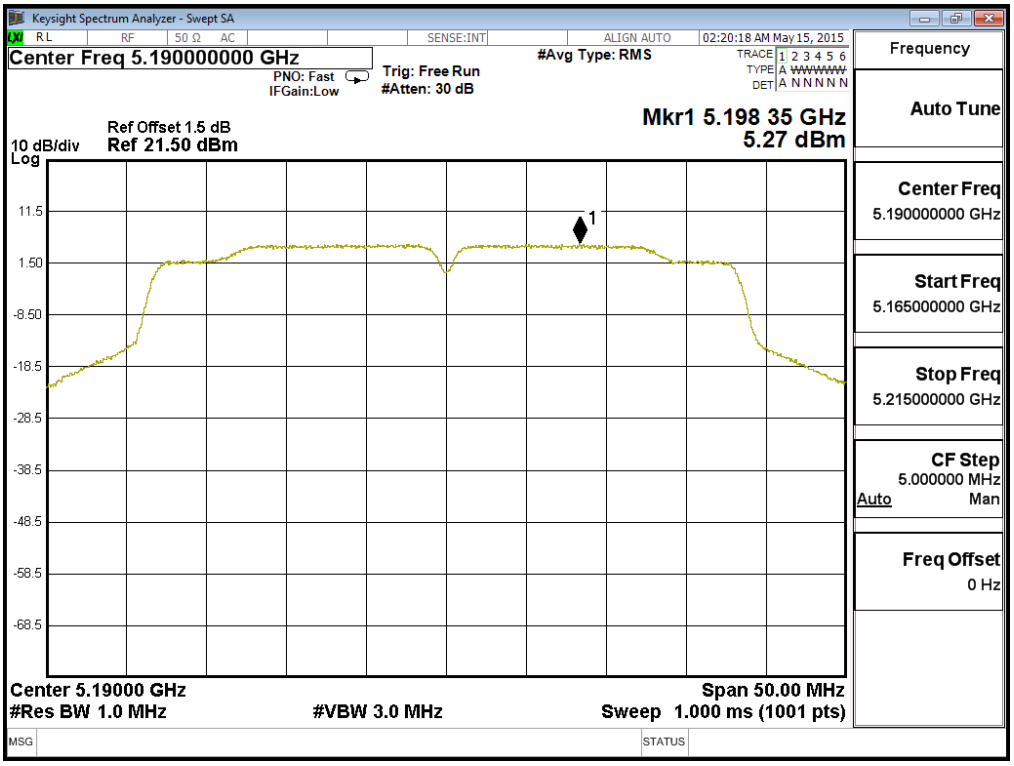

Keysight Spectrum Analyzer - Swept SA
Center Freq 5.700000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
02:18:13 AM May 15, 2015
Mkr1 5.696 350 GHz
6.41 dBm
Ref Offset 1.5 dB
10 dB/div
Ref 21.50 dBm
Log
11.5
1.50
-8.50
-18.5
-28.5
-38.5
-48.5
-58.5
-68.5
Center 5.70000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 25.00 MHz
Sweep 1.000 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.700000000 GHz
Start Freq
5.687500000 GHz
Stop Freq
5.712500000 GHz
CF Step
2.500000 MHz
Auto
Man
Freq Offset
0 Hz

Product : Intel® Dual Band Wireless-AC 8260
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-40BW 15Mbps)

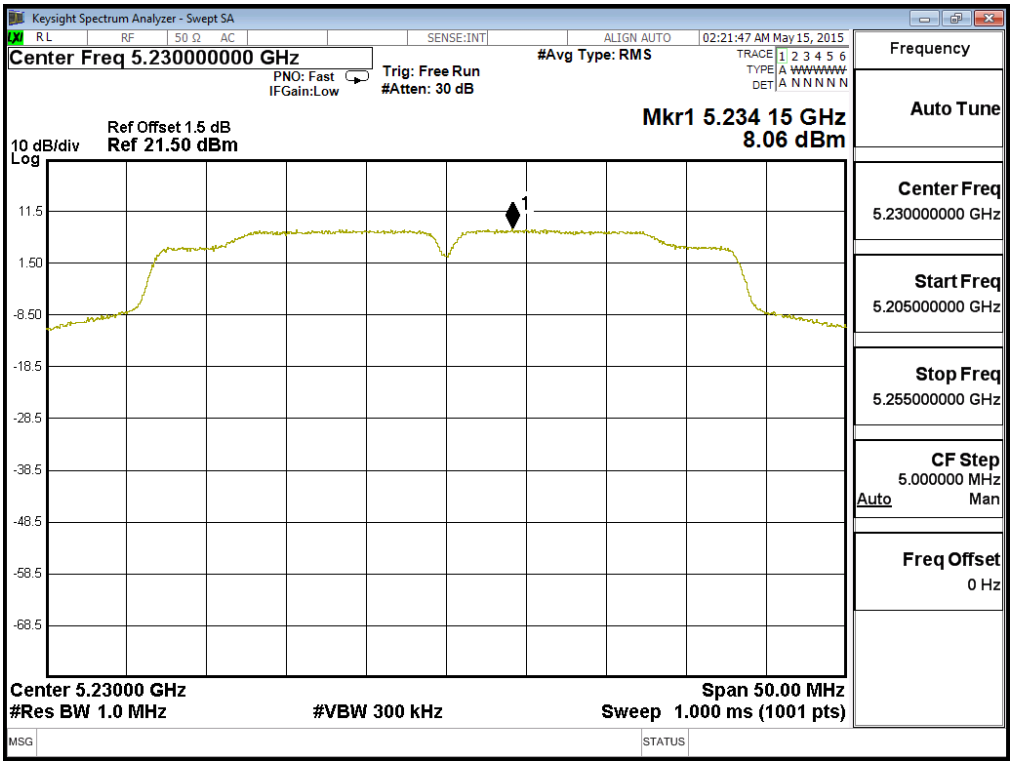
Channel Number	Frequency (MHz)	PPSD (dBm)	Duty Factor (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
38	5190	5.266	0.150	5.416	<11	Pass
46	5230	8.062	0.150	8.212	<11	Pass
54	5270	7.204	0.150	7.354	<11	Pass
62	5310	3.088	0.150	3.238	<11	Pass
102	5510	2.514	0.150	2.664	<11	Pass
110	5550	7.790	0.150	7.940	<11	Pass
134	5670	6.844	0.150	6.994	<11	Pass

Note: Total PPSD = PPSD value + Duty Factor

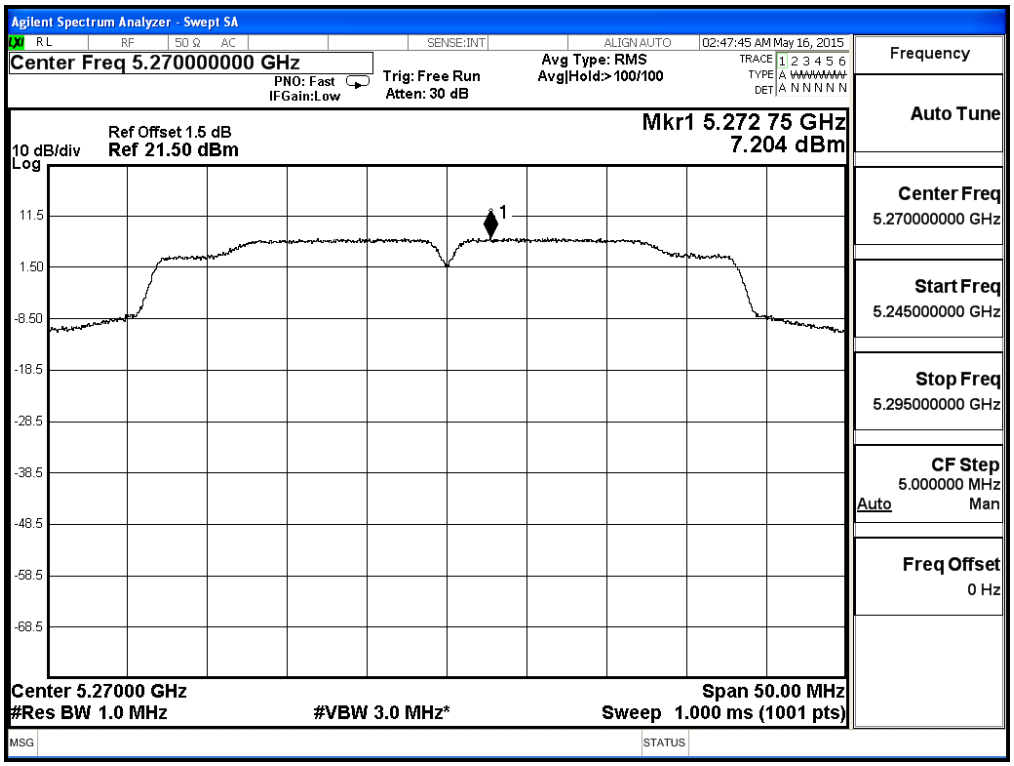
Channel 38



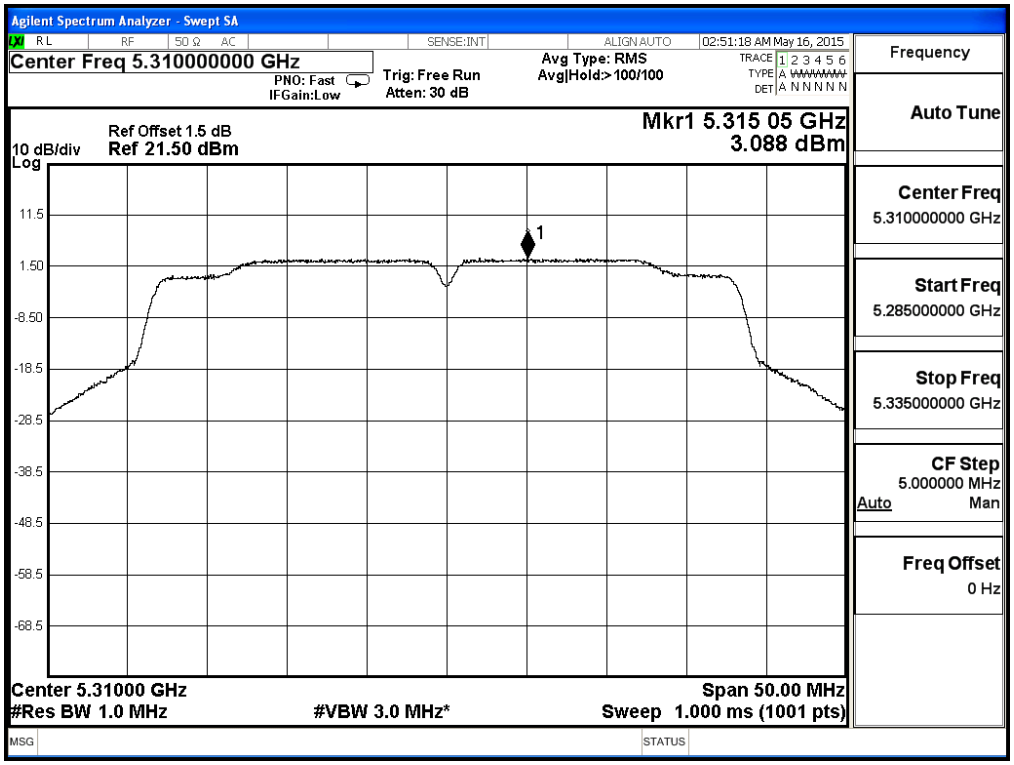
Channel 46



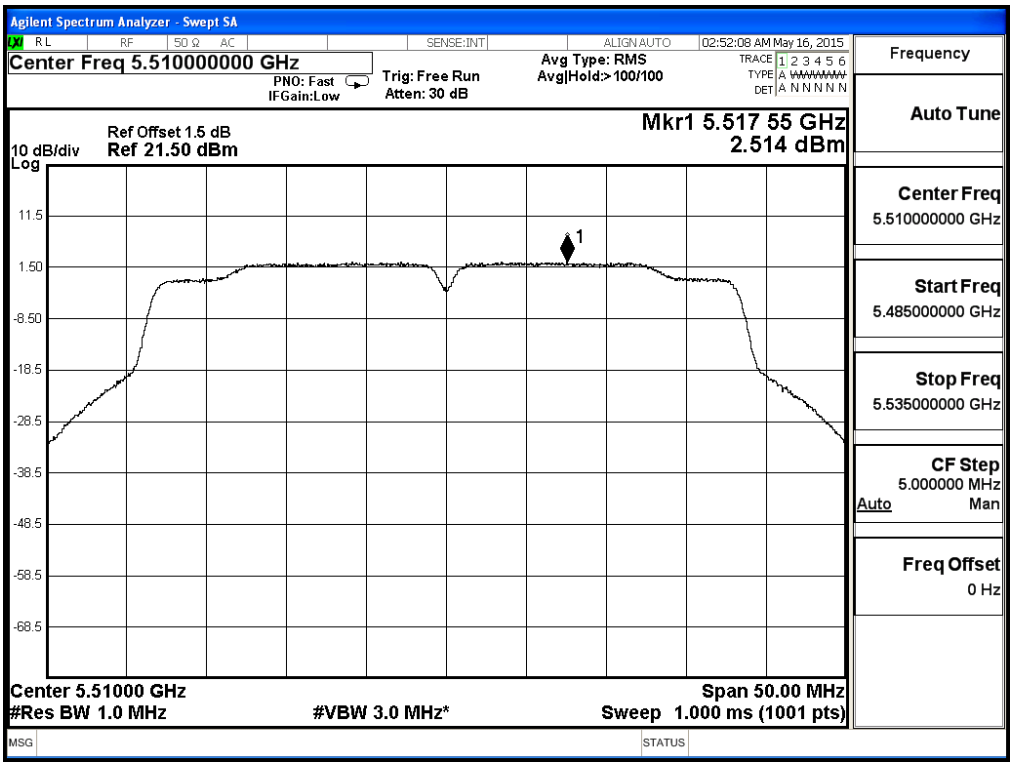
Channel 54



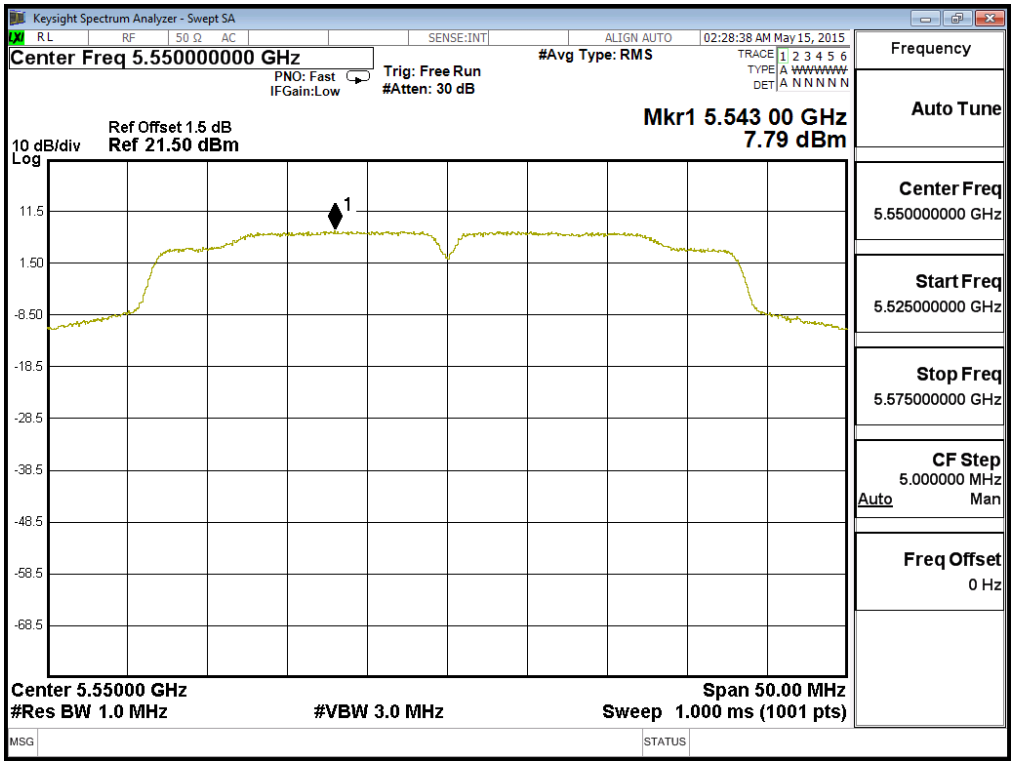
Channel 62



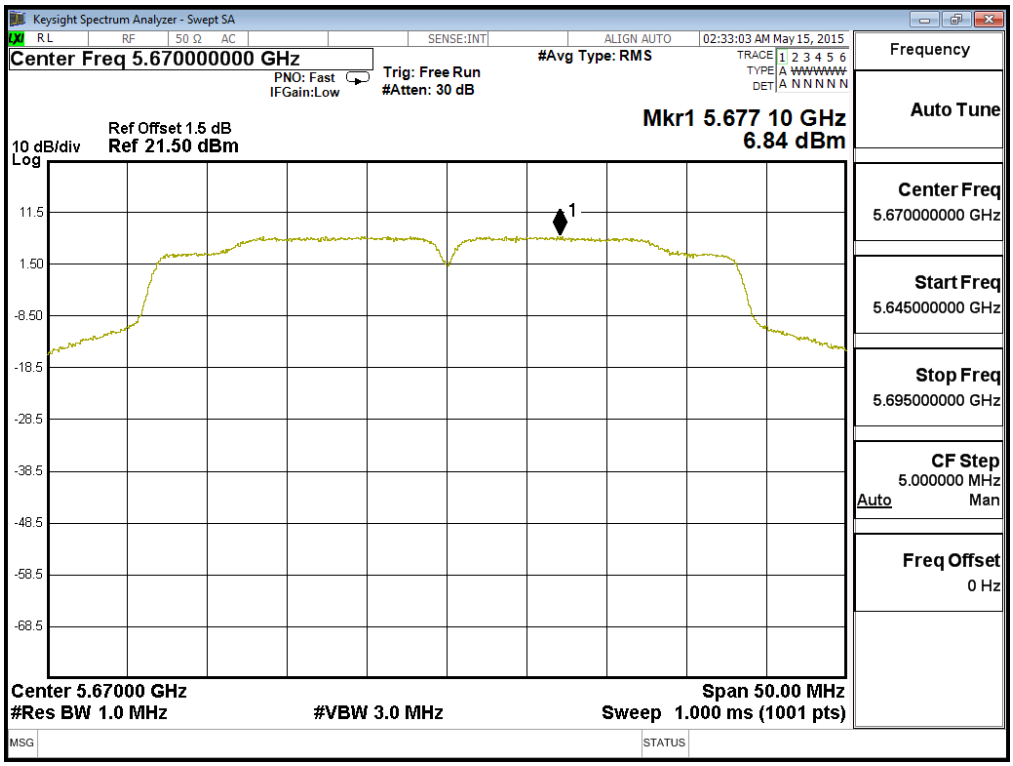
Channel 102



Channel 110



Channel 134

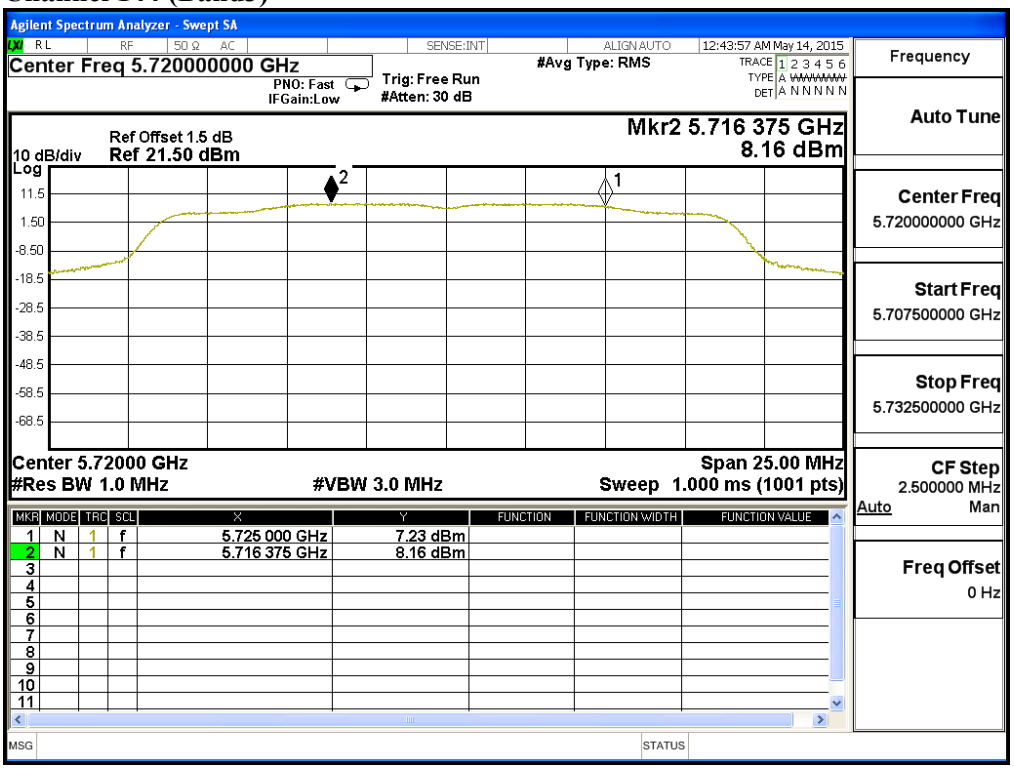

Keysight Spectrum Analyzer - Swept SA
Center Freq 5.670000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
02:33:03 AM May 15, 2015
Ref Offset 1.5 dB
10 dB/div
Ref 21.50 dBm
Log
Mkr1 5.677 10 GHz
6.84 dBm
11.5
1.50
-8.50
-18.5
-28.5
-38.5
-48.5
-58.5
-68.5
Center 5.67000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 50.00 MHz
Sweep 1.000 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.670000000 GHz
Start Freq
5.645000000 GHz
Stop Freq
5.695000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Product : Intel® Dual Band Wireless-AC 8260
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-20BW-7.2Mbps)

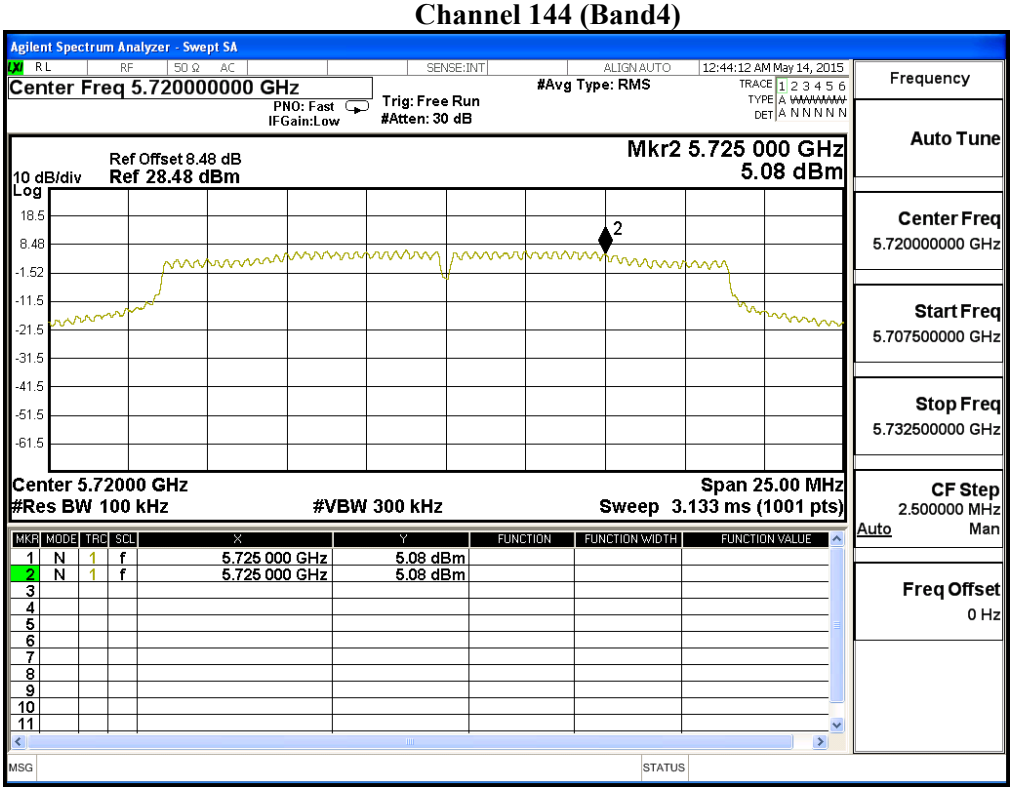
Channel Number	Frequency (MHz)	PPSD (dBm)	Duty Factor (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
144	5720(Band3)	8.160	0.11	8.270	<11	Pass
144	5720(Band4)	5.080	0.11	5.190	<30	Pass

Note: Total PPSD = PPSD value + Duty Factor

Channel 144 (Band3)



Channel 144 (Band4)

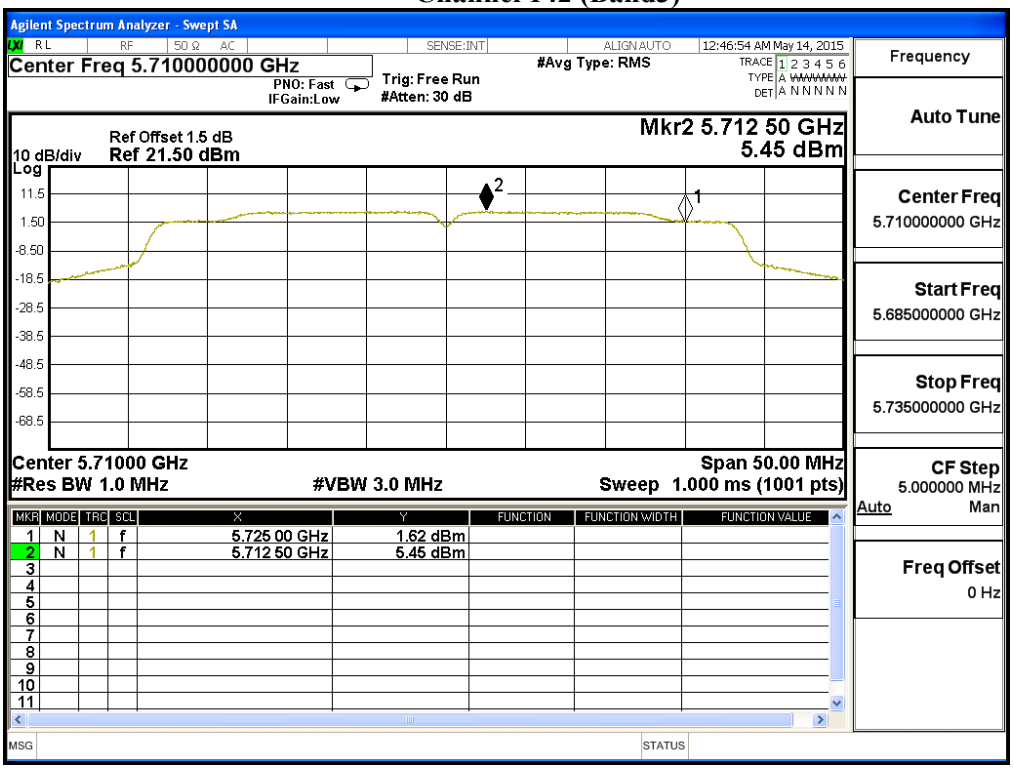
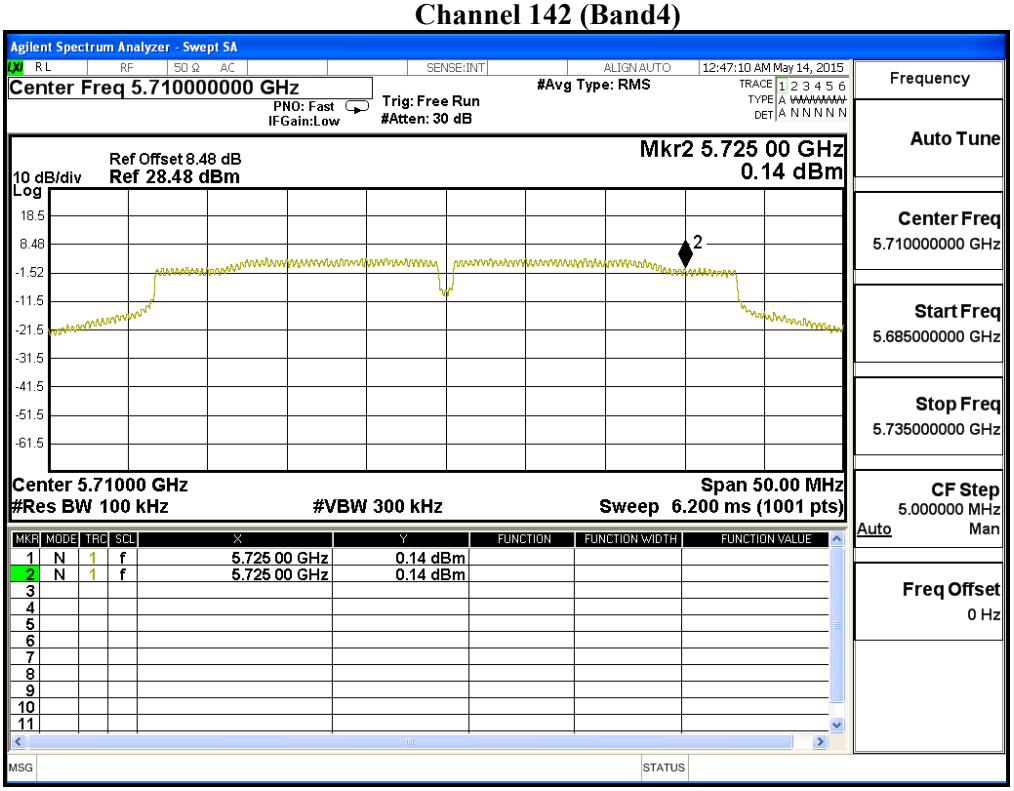


Product : Intel® Dual Band Wireless-AC 8260
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-40BW-15Mbps)

Channel Number	Frequency (MHz)	PPSD (dBm)	Duty Factor (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
142	5710(Band3)	5.450	0.315	5.765	<11	Pass
142	5710(Band4)	0.140	0.315	0.455	<30	Pass

Note: Total PPSD = PPSD value + Duty Factor

Channel 142 (Band3)



Channel 142 (Band4)