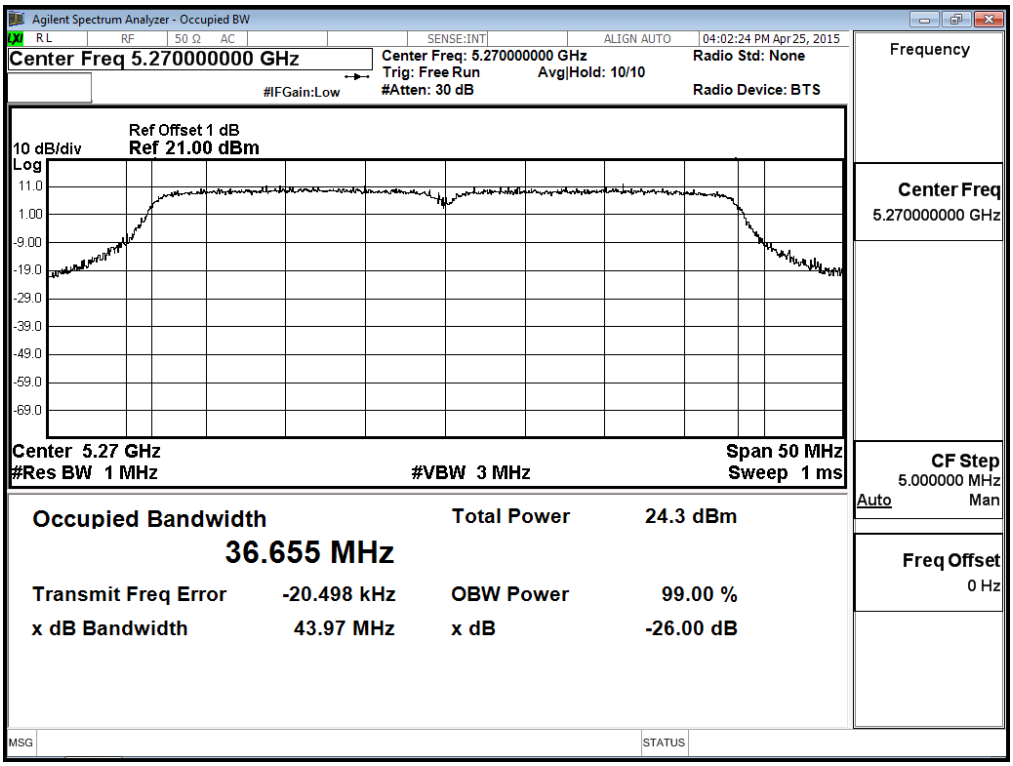
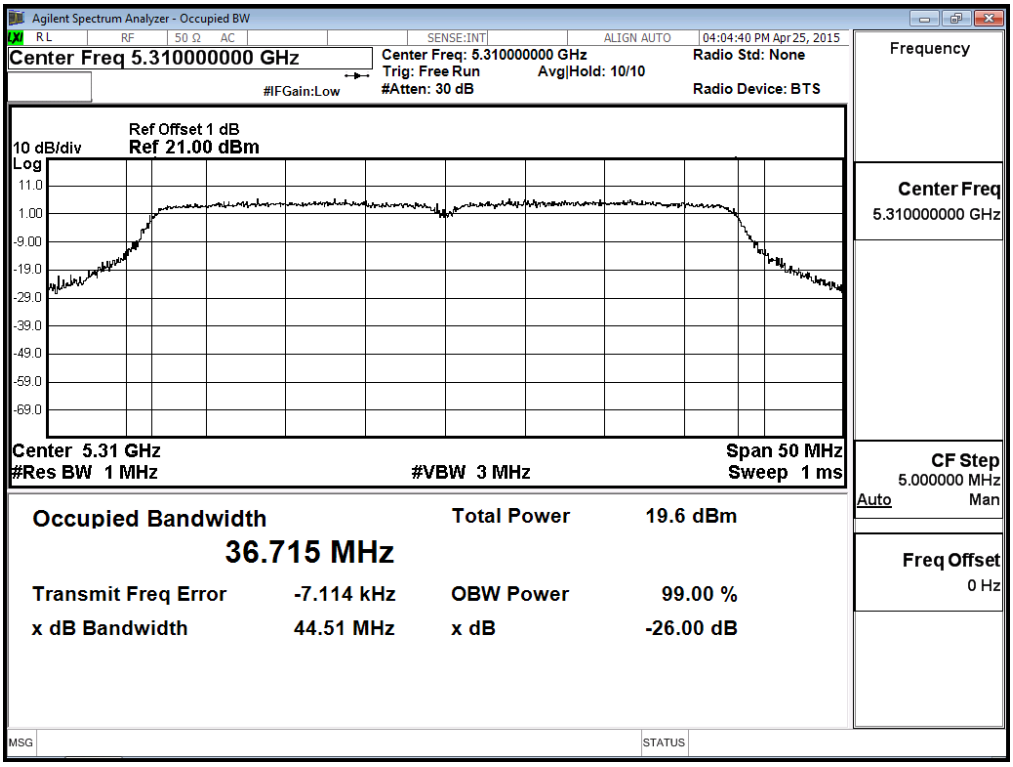
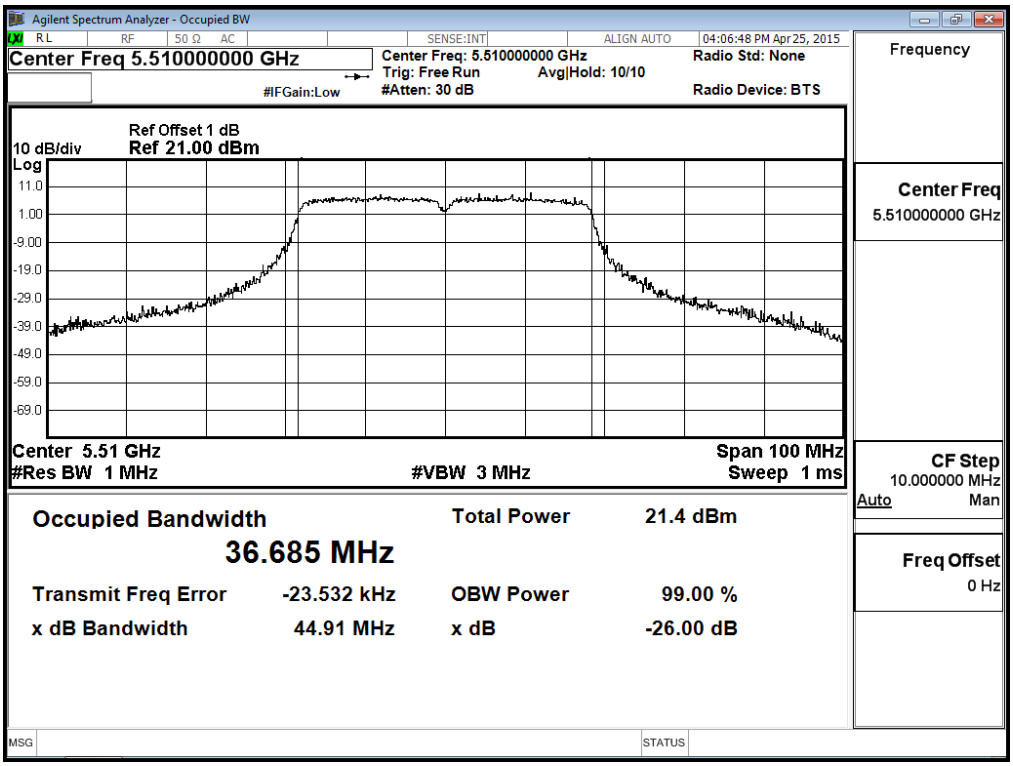
Channel 54: Chain C



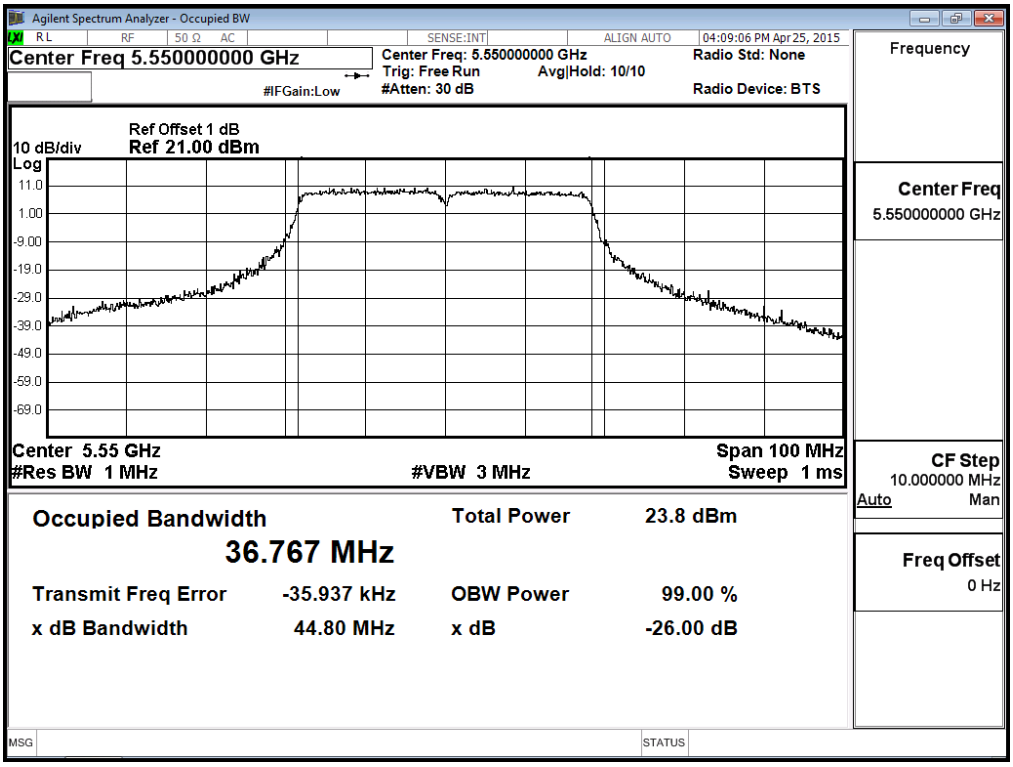
Channel 62: Chain C



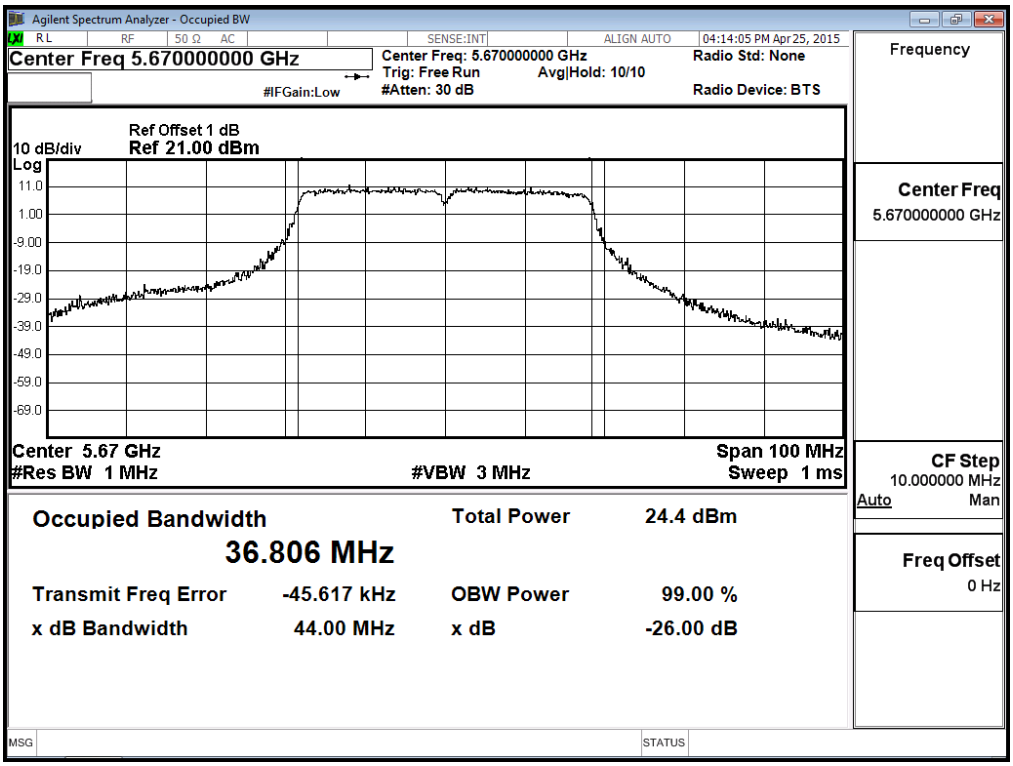
Channel 102: Chain C



Channel 110: Chain C



Channel 134: Chain C



Product : Access Point/Sensor
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11ac-20BW-21.7Mbps) (External Antenna)

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	
144(Band3)	5720	13.5	13.41	13.34	13.23	13.18	13.05	12.96	12.87	12.75	--	<24dBm
144(Band4)	5720	8.65	8.52	8.34	8.26	8.13	8.04	7.87	7.74	7.61	--	<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
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
144(Band3)	5720	14.56	14.42	14.28	14.15	14.02	13.86	13.72	13.58	13.41	--	<24dBm
144(Band4)	5720	8.83	8.71	8.56	8.47	8.35	8.23	8.13	7.94	7.84	--	<24dBm

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

Chain C

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	
144(Band3)	5720	14.56	14.38	14.2	14.05	13.84	13.66	13.48	13.36	13.24	--	<24dBm
144(Band4)	5720	9.35	9.24	9.13	9.08	8.91	8.85	8.69	8.58	8.47	--	<24dBm

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

Maximum conducted output power Measurement:

Chain A+ B+C

Channel No	Frequency Range	99% Bandwidth	Chain A Power	Chain B Power	Chain C Power	Output Power	Output Power Limit	
	(MHz)	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	dBm+10log(BW)
144(Band3)	5720	14.150	13.50	14.56	14.56	19.01	23.93	22.51
144(Band4)	5720	--	8.65	8.83	9.35	13.72	30	--

Note:

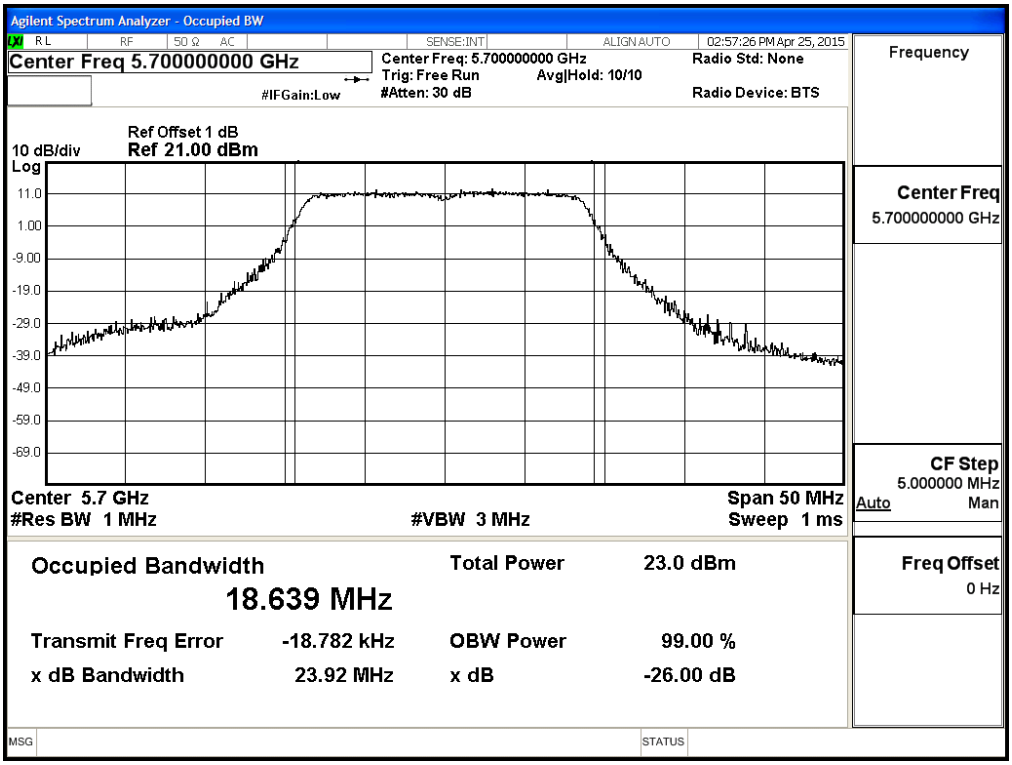
1. Power Output Value =Reading value on average power meter + cable loss
2. Output Power (dBm) = 10LOG (Chain A Power (Mw)+ Chain B Power (Mw)+Chain C Power (Mw))
3. 99% Bandwidth is the bandwidth of chain A or chain B or chain C whichever is less bandwidth, output power limitation is more stringent.

   △ The maximum conducted output power shall be reduced by the amount in Db that the directional gain of

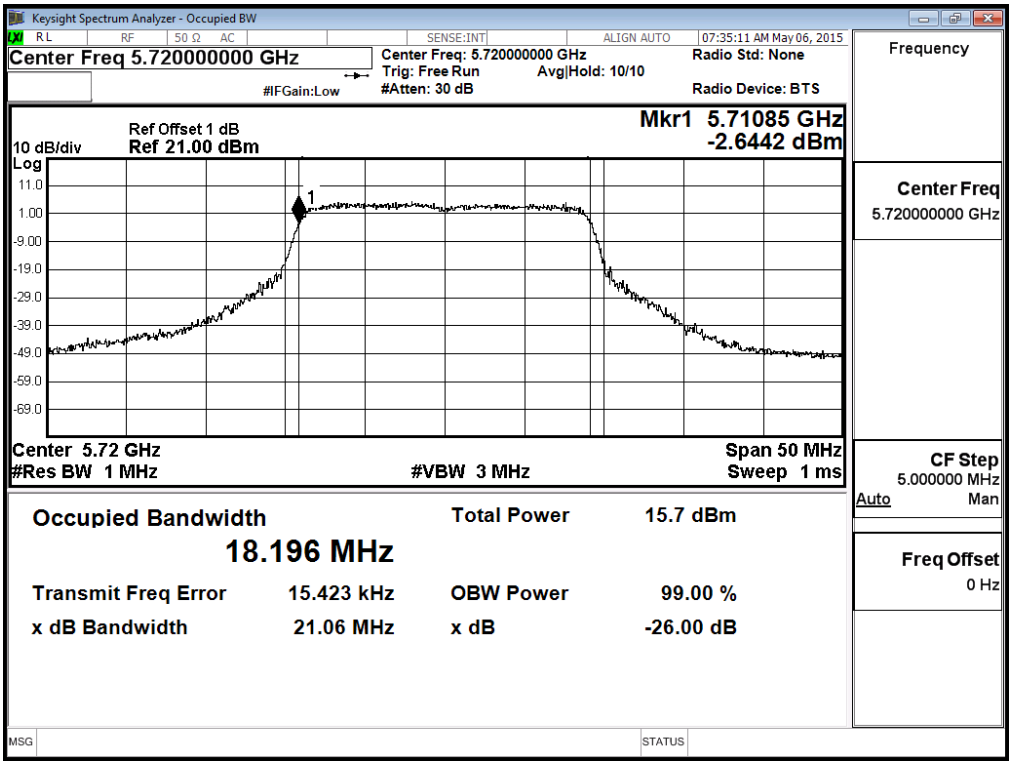
   the antenna exceeds 6 dBi

99% Occupied Bandwidth:

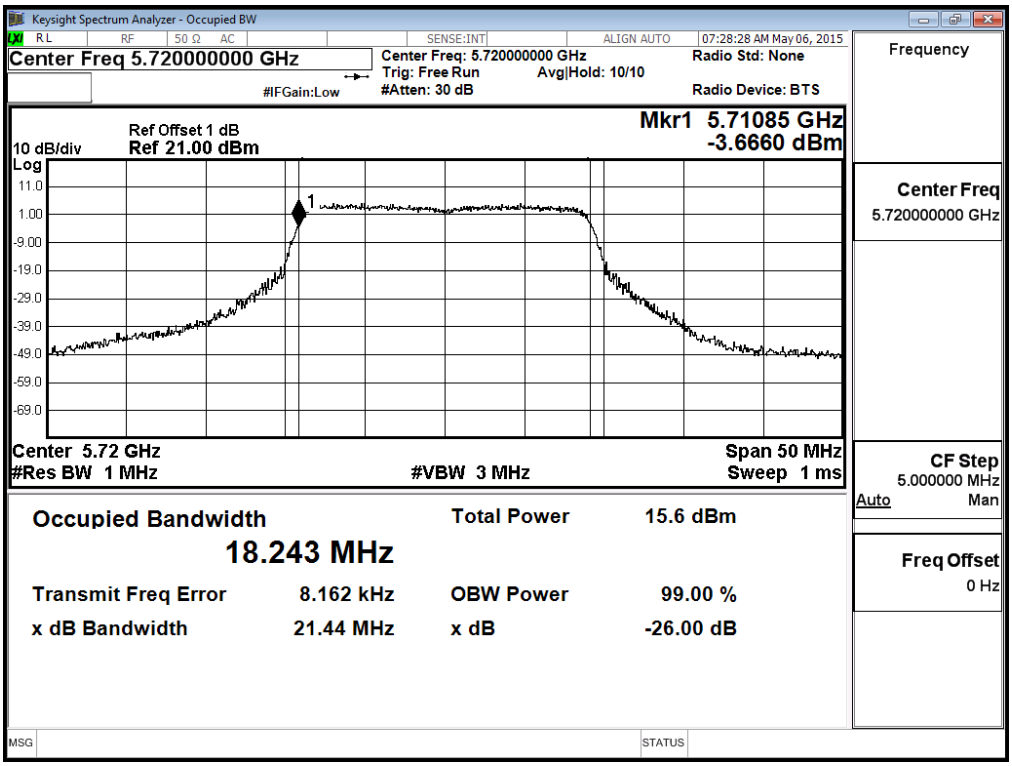
Channel 144: Chain A



Channel 144: Chain B

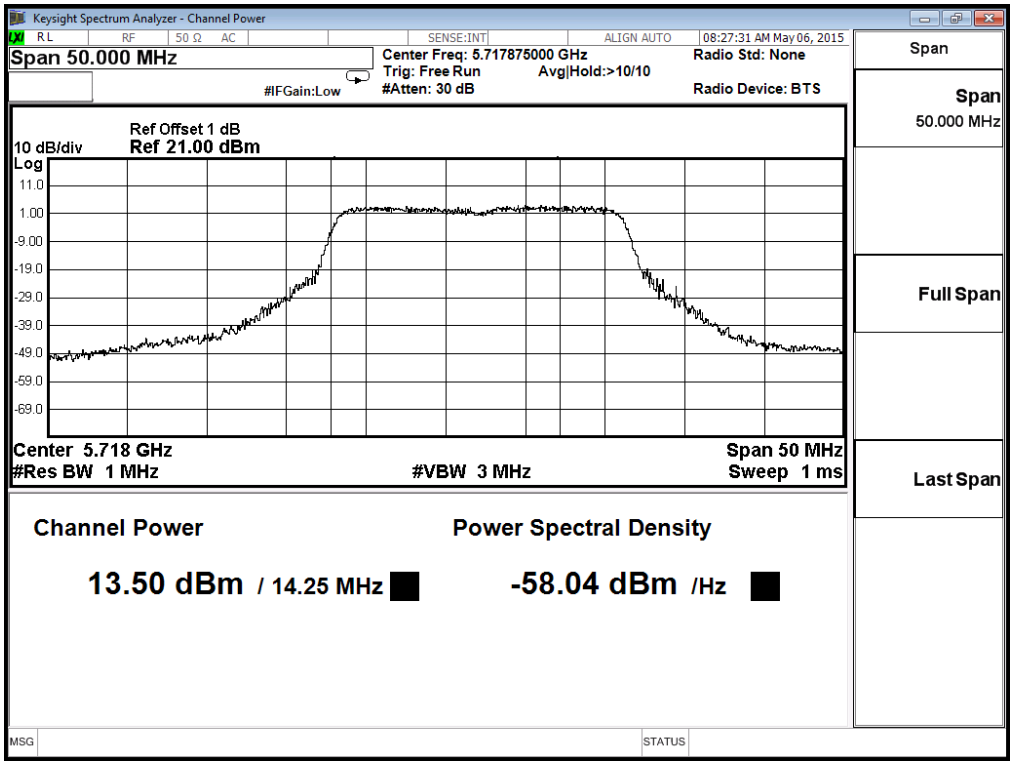


Channel 144: Chain C



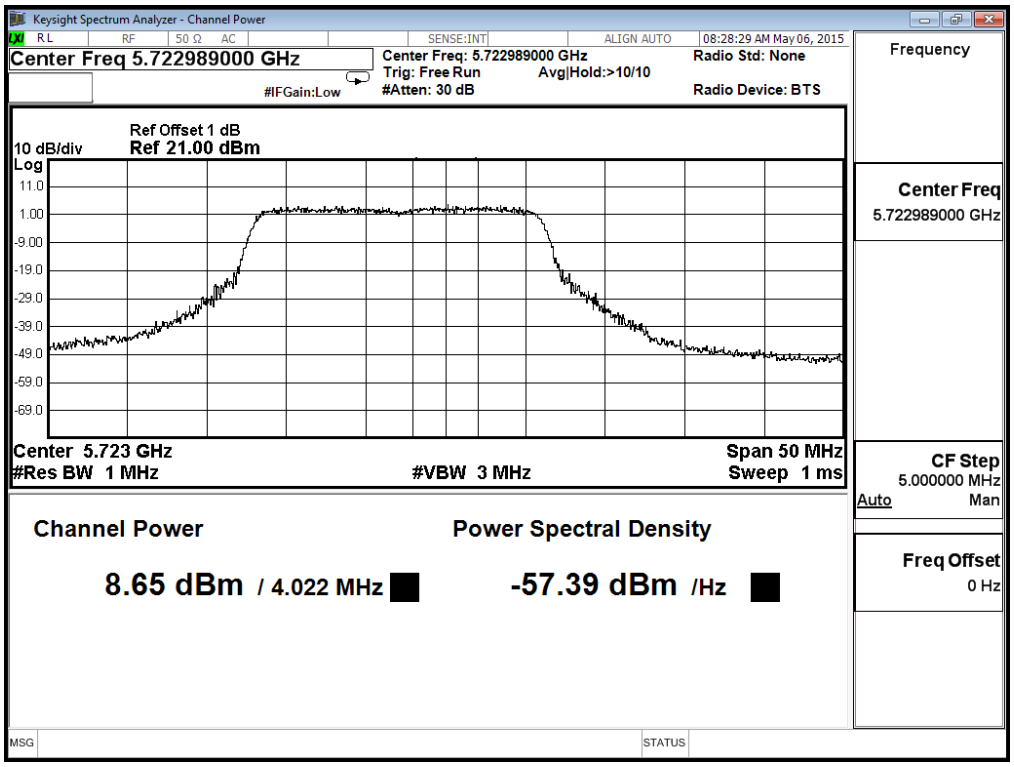
Maximum conducted output power:

Channel 144 – Chain A



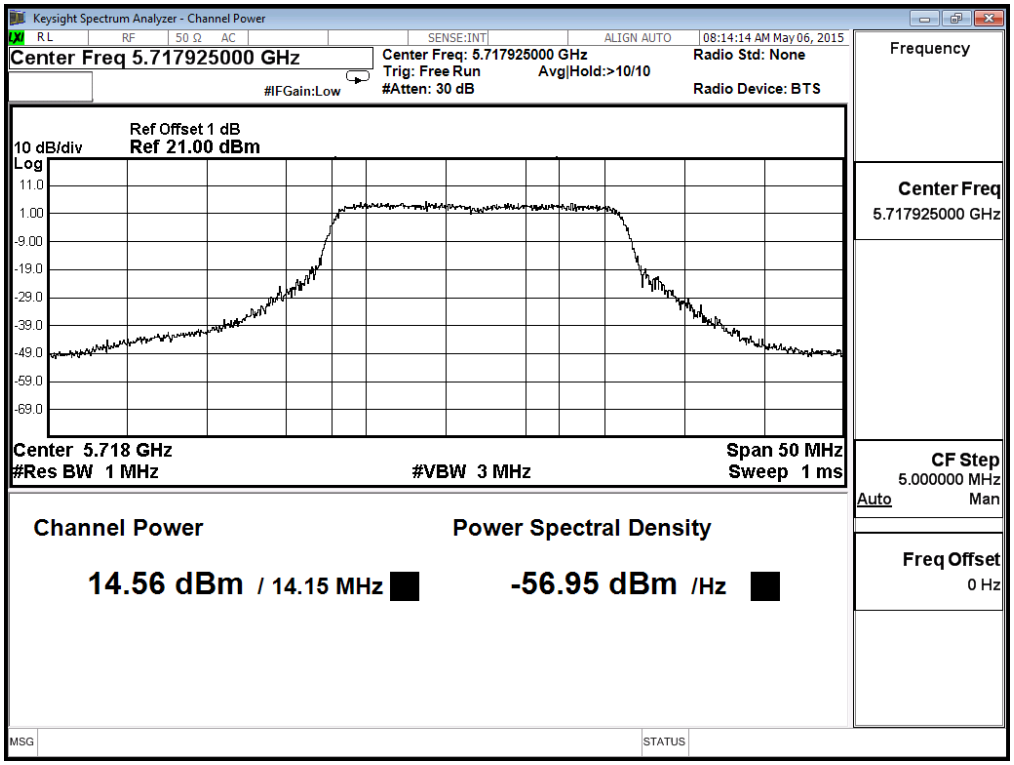
Maximum conducted output power:

Channel 144 – Chain A



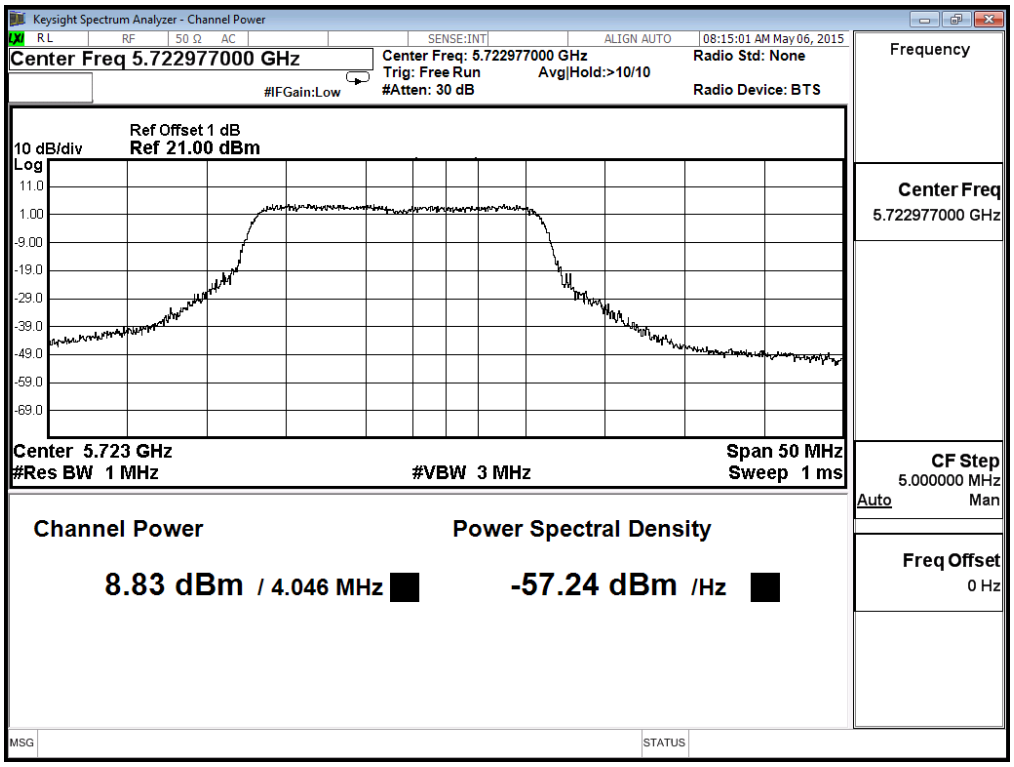
Maximum conducted output power:

Channel 144 – Chain B



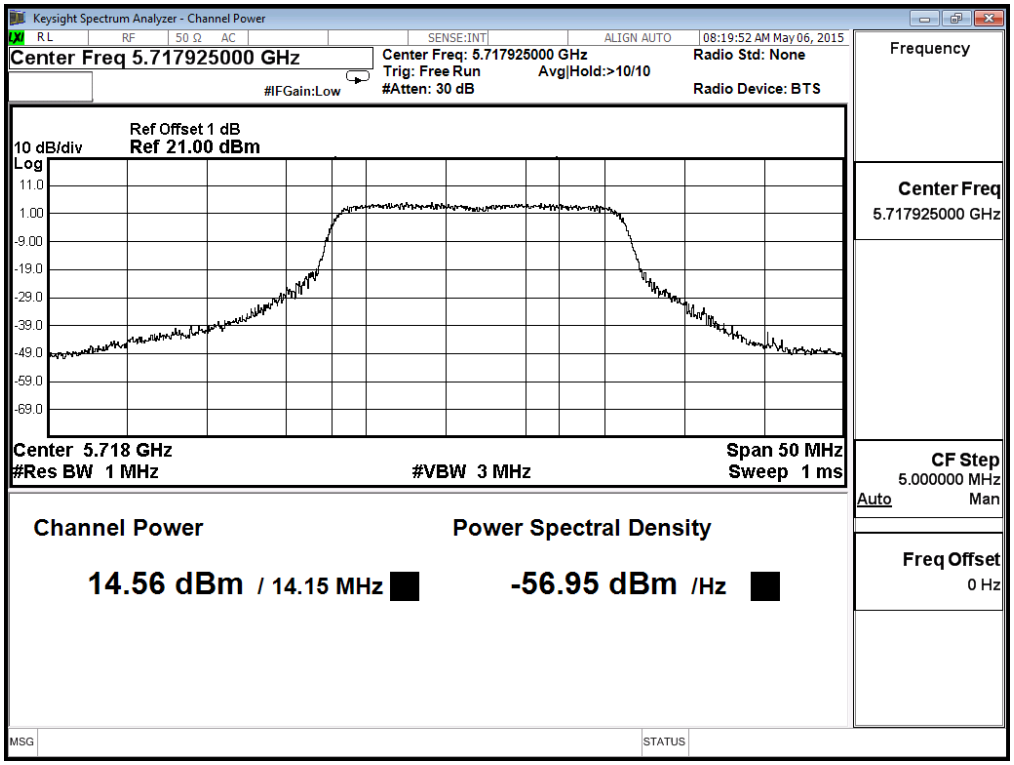
Maximum conducted output power:

Channel 144 – Chain B



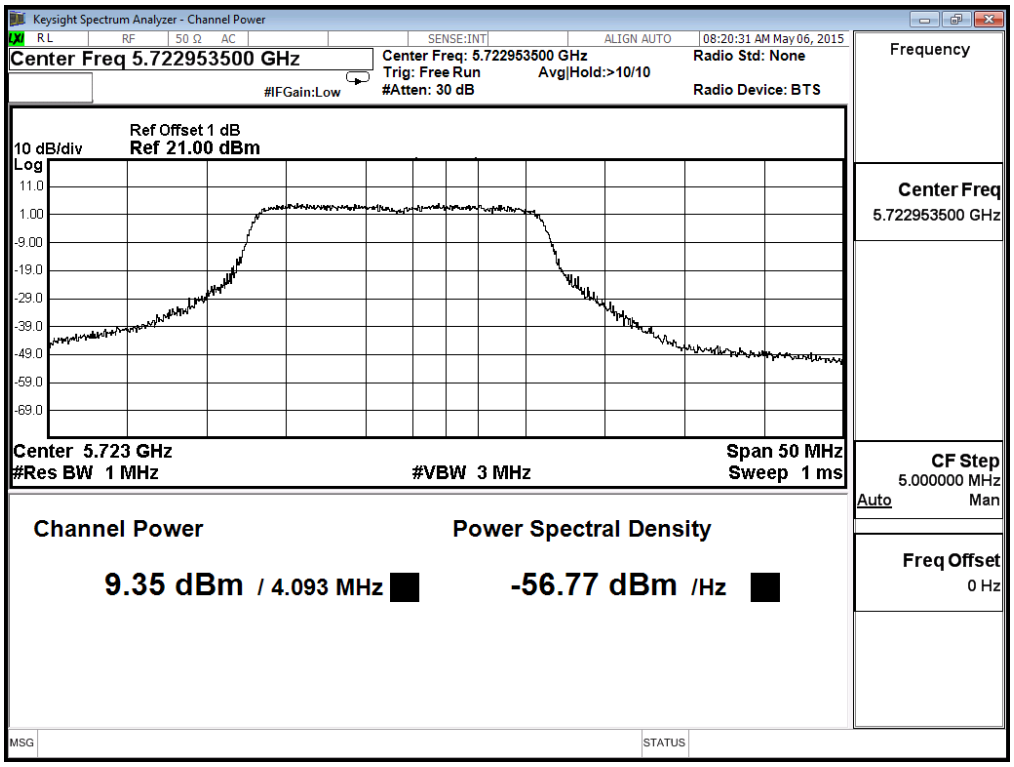
Maximum conducted output power:

Channel 144 – Chain C



Maximum conducted output power:

Channel 144 – Chain C



Product : Access Point/Sensor
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 5: Transmit (802.11ac-40BW-45Mbps) (External Antenna)

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	
142(Band3)	5710	13.68	13.54	13.4	13.26	13.15	12.98	12.84	12.72	12.56	12.42	<24dBm
142(Band4)	5710	3.51	3.38	3.25	3.12	2.97	2.86	2.73	2.62	2.47	2.34	<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
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142(Band3)	5710	15.27	15.14	15.01	14.88	14.75	14.62	14.46	14.36	14.23	14.12	<24dBm
142(Band4)	5710	4.56	4.48	4.41	4.32	4.24	4.16	4.08	4.02	3.92	3.84	<24dBm

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

Chain C

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	
142(Band3)	5710	15.4	15.27	15.14	15.08	14.88	14.75	14.62	14.49	14.34	14.23	<24dBm
142(Band4)	5710	4.31	4.19	4.09	3.95	3.83	3.72	3.59	3.47	3.35	3.23	<24dBm

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

Maximum conducted output power Measurement:

Chain A+ B+C

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Output Power (dBm)	Output Power Limit	
							(dBm)	dBm+10log(BW)
142(Band3)	5710	33.300	13.68	15.27	15.40	19.62	23.93	26.22
142(Band4)	5710	--	3.51	4.56	4.31	8.92	30	--

Note:

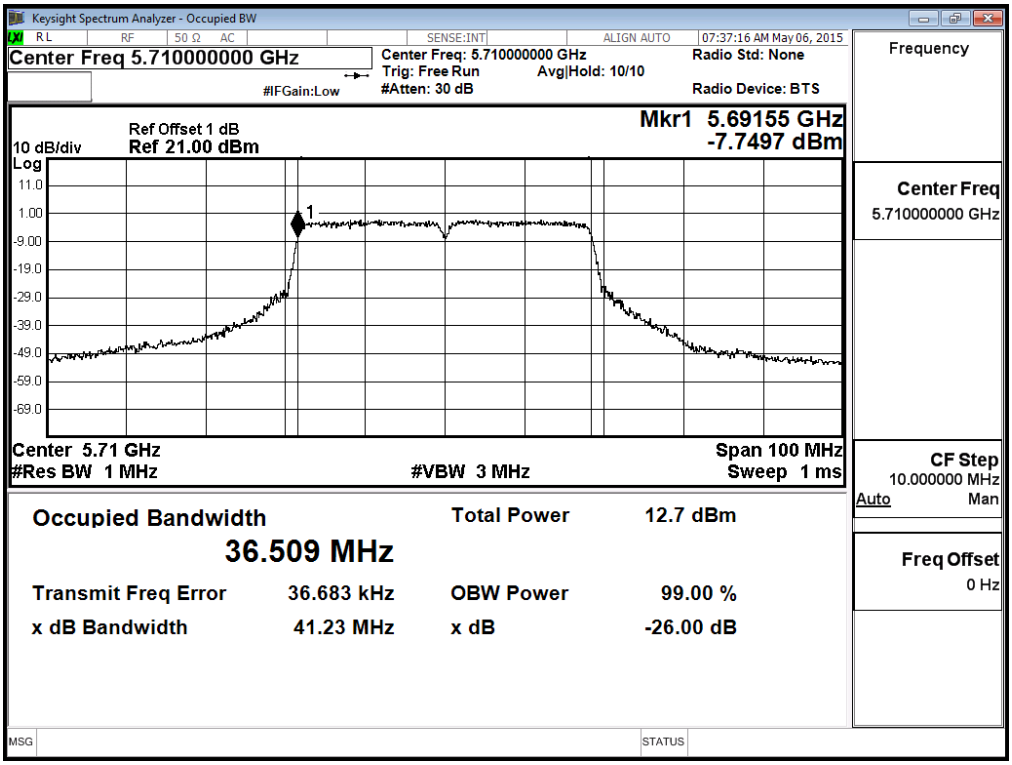
1. Power Output Value =Reading value on average power meter + cable loss
2. Output Power (dBm) = 10LOG (Chain A Power (Mw)+ Chain B Power (Mw)+Chain C Power (Mw))
3. 99% Bandwidth is the bandwidth of chain A or chain B or chain C whichever is less bandwidth, output power limitation is more stringent.

   △ The maximum conducted output power shall be reduced by the amount in Db that the directional gain of

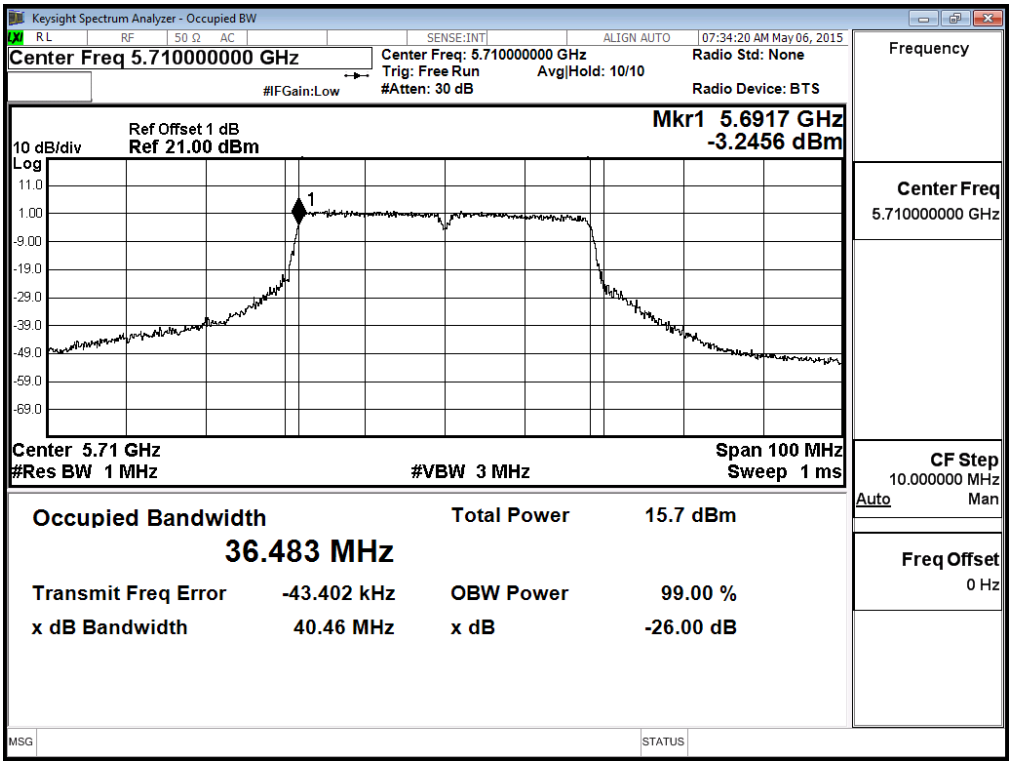
   the antenna exceeds 6 dBi

99% Occupied Bandwidth:

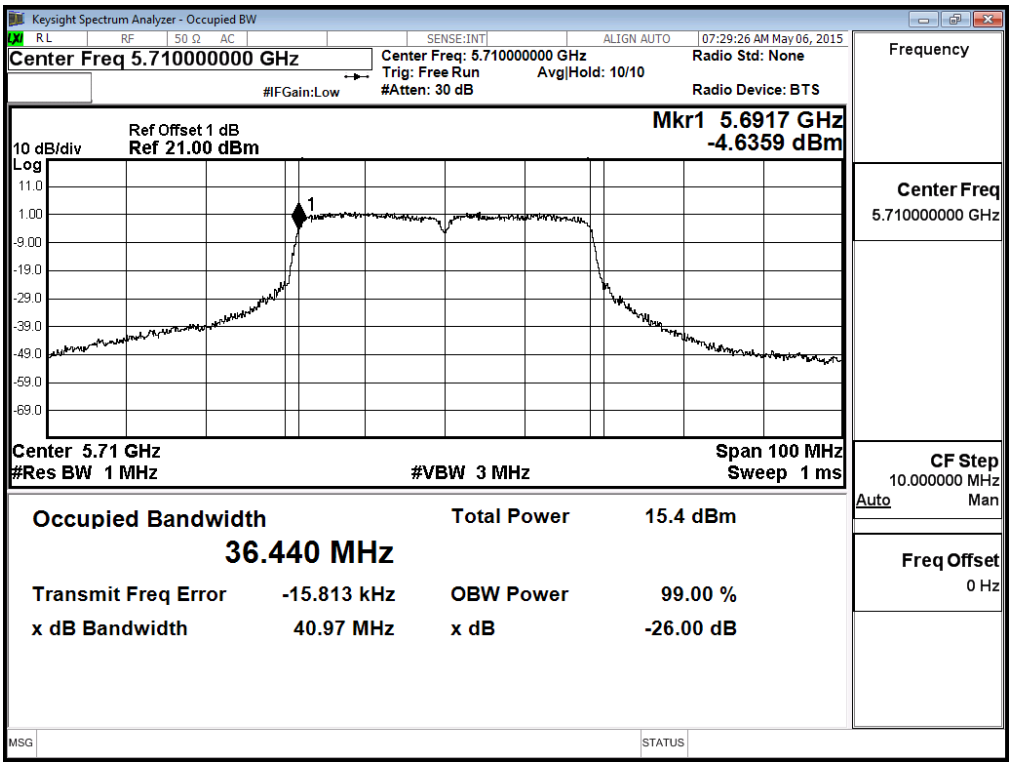
Channel 142: Chain A



Channel 142: Chain B

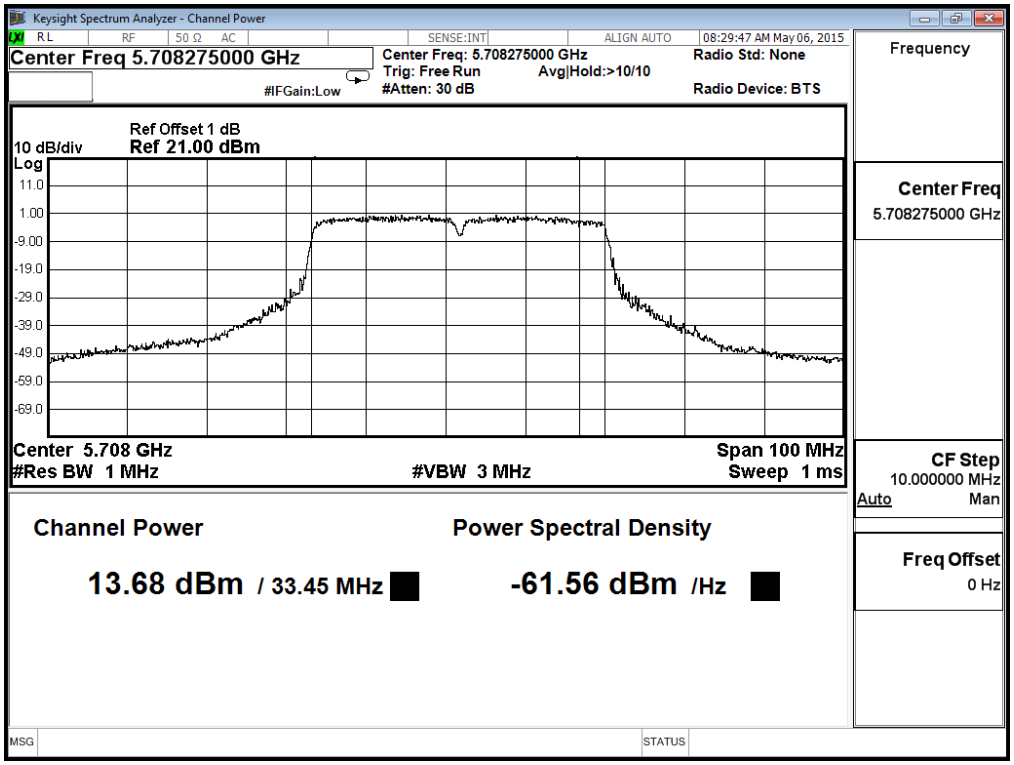


Channel 142: Chain C



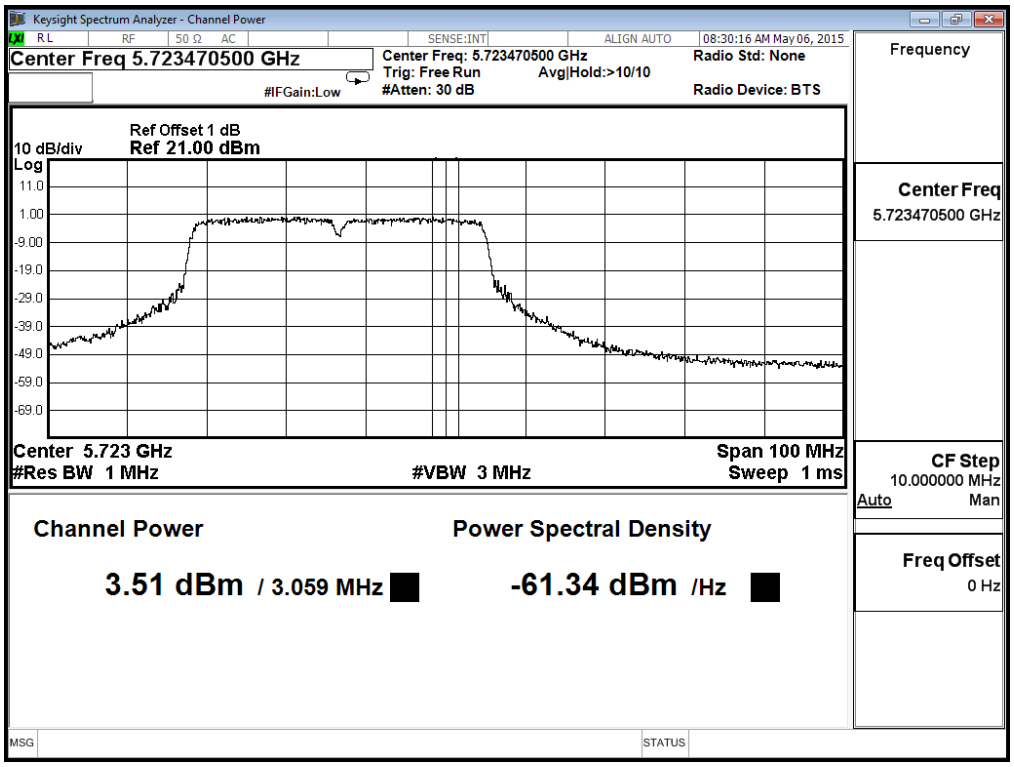
Maximum conducted output power:

Channel 142 – Chain A



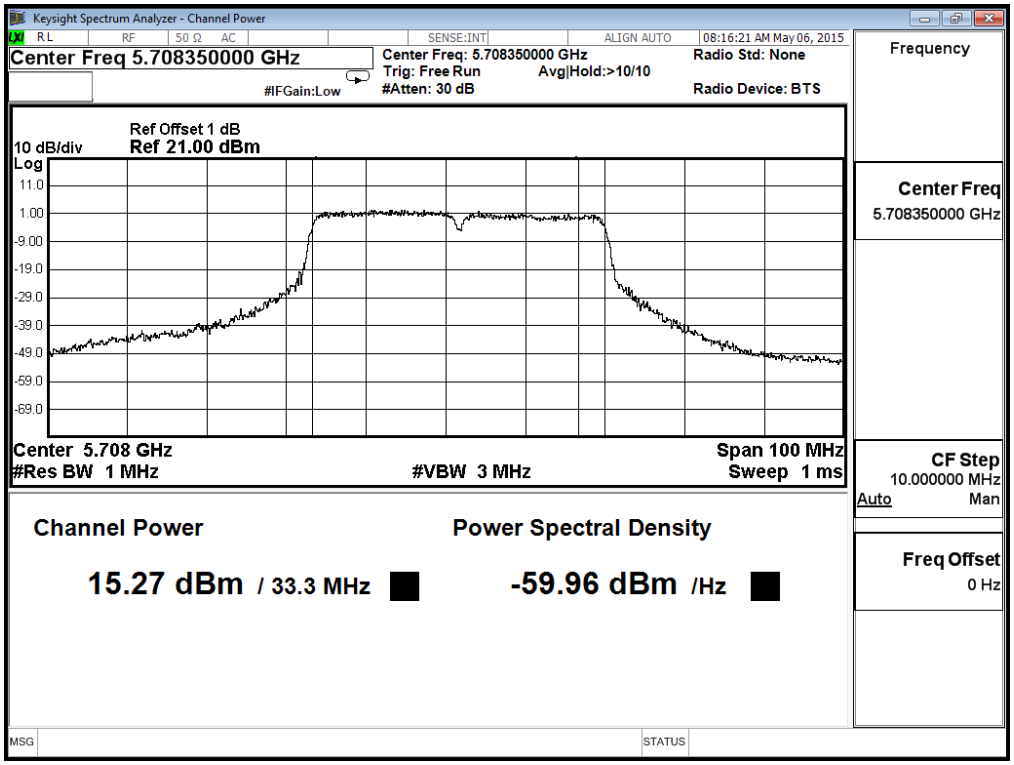
Maximum conducted output power:

Channel 142 – Chain A



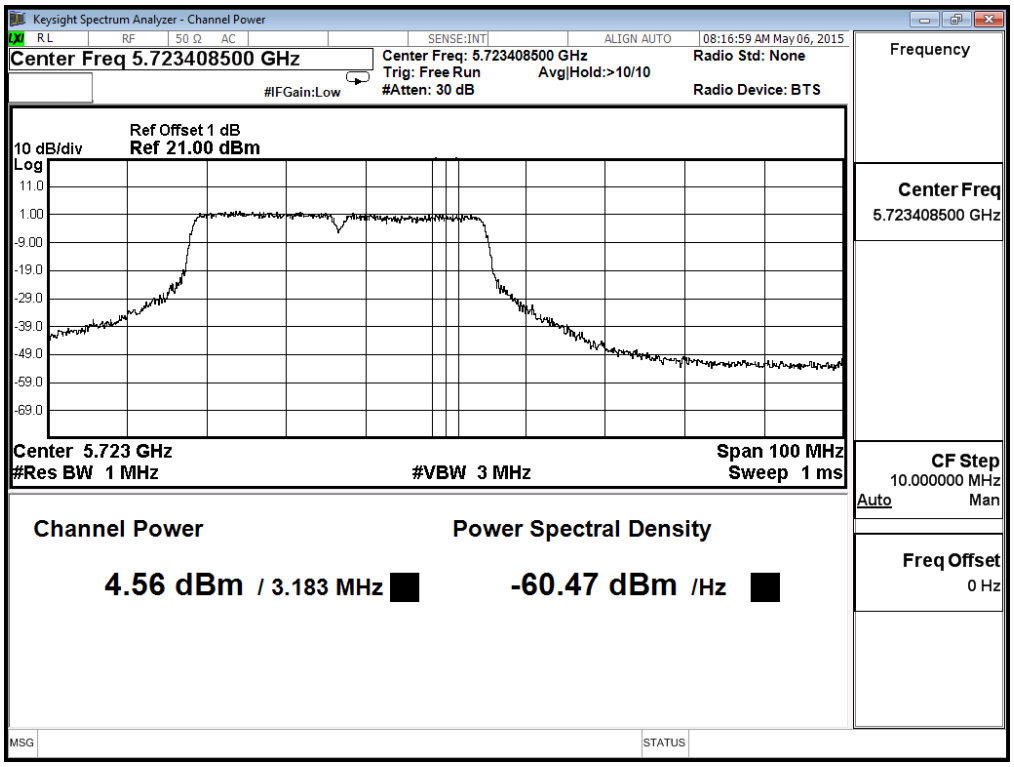
Maximum conducted output power:

Channel 142 – Chain B



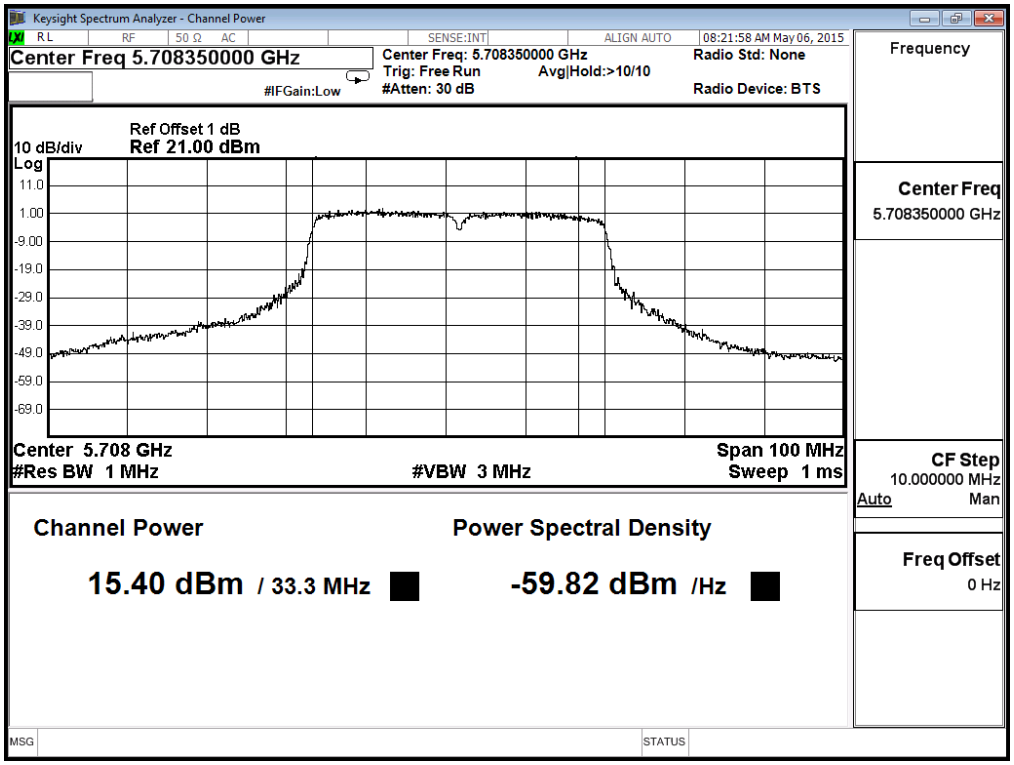
Maximum conducted output power:

Channel 142 – Chain B



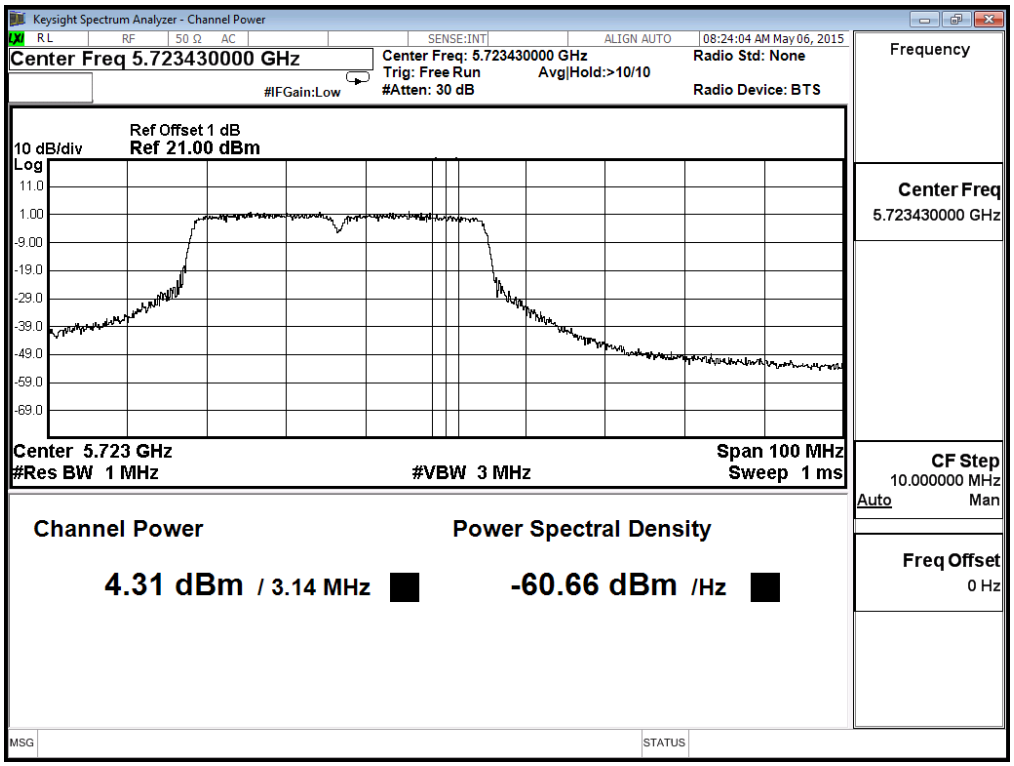
Maximum conducted output power:

Channel 142 – Chain C



Maximum conducted output power:

Channel 142 – Chain C



Product : Access Point/Sensor
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 6: Transmit (802.11ac-80BW-97.5Mbps) (External Antenna)

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	
58	5290	11.87	11.76	11.65	11.58	11.43	11.32	11.21	11.12	11.03	10.92	<24dBm
106	5530	11.3	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	14.68	14.57	14.46	14.32	14.24	14.13	14.08	13.88	13.68	13.48	<24dBm
138(Band3)	5690	13.61	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	-1.07	--	--	--	--	--	--	--	--	--	<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
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
58	5290	12.13	12.16	12.03	11.92	11.77	11.64	11.55	11.38	11.21	11.12	<24dBm
106	5530	13.65	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	15.44	15.34	15.28	15.14	15.06	14.94	14.81	14.74	14.67	14.6	<24dBm
138(Band3)	5690	15.65	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	-0.64	--	--	--	--	--	--	--	--	--	<24dBm

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

Chain C

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	
58	5290	12.29	12.16	12.03	11.92	11.77	11.64	11.55	11.38	11.21	11.04	<24dBm
106	5530	12.02	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	14.17	14.02	13.87	13.75	13.57	13.42	13.24	13.12	13.05	12.88	<24dBm
138(Band3)	5690	15.4	--	--	--	--	--	--	--	--	--	<24dBm
138(Band4)	5690	-0.46	--	--	--	--	--	--	--	--	--	<24dBm

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

Maximum conducted output power Measurement:

Chain A+ B+C

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Output Power (dBm)	Output Power Limit	
							(dBm)	dBm+10log(BW)
58	5290	75.939	11.87	12.13	12.29	16.87	24	29.80
106	5530	75.702	11.30	13.65	12.02	17.21	23.93	29.79
122	5610	75.884	14.68	15.44	14.17	19.57	23.93	29.80
138(Band3)	5690	73.100	13.61	15.65	15.40	19.75	23.93	29.64
138(Band4)	5690	--	-1.07	-0.64	-0.46	4.06	30	--

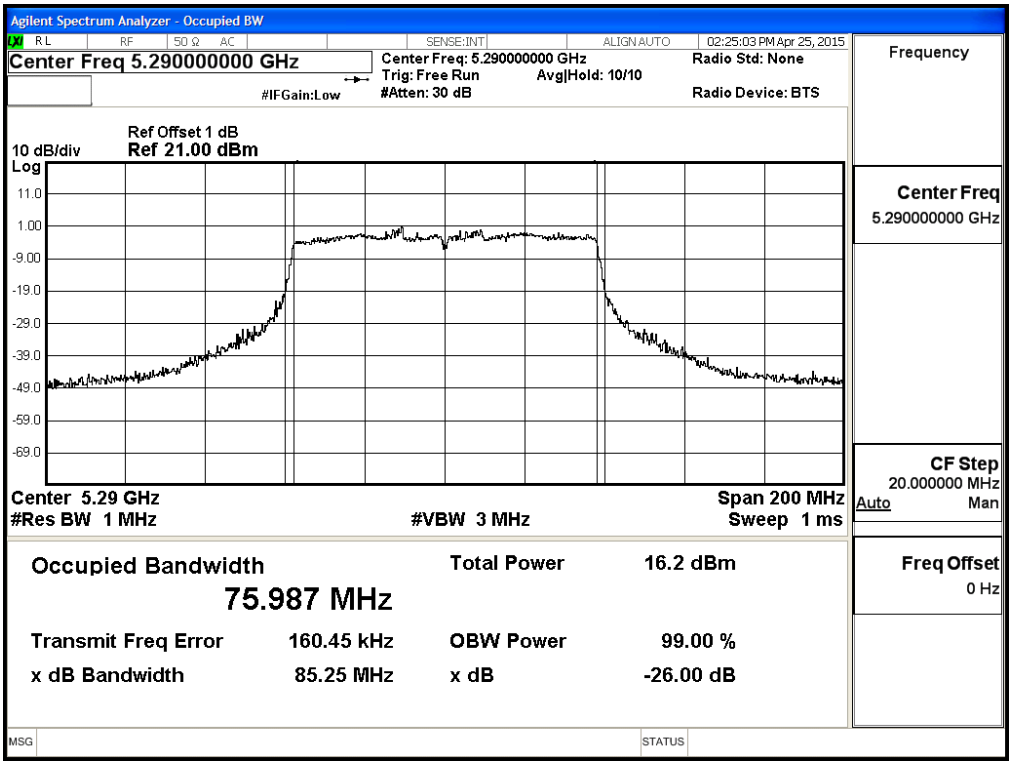
Note:

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)+Chain C Power (Mw))
3. 99% Bandwidth is the bandwidth of chain A or chain B or chain C whichever is less bandwidth, output power limitation is more stringent.

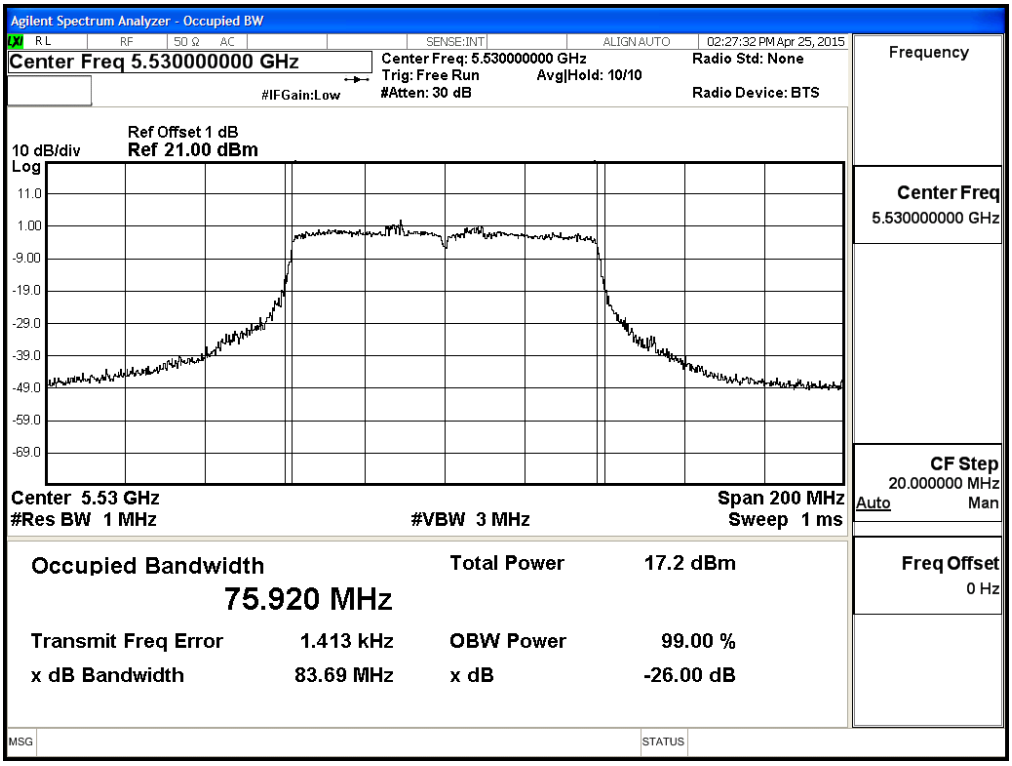
△ The maximum conducted output power shall be reduced by the amount in Db that the directional gain of the antenna exceeds 6 dBi

99% Occupied Bandwidth:

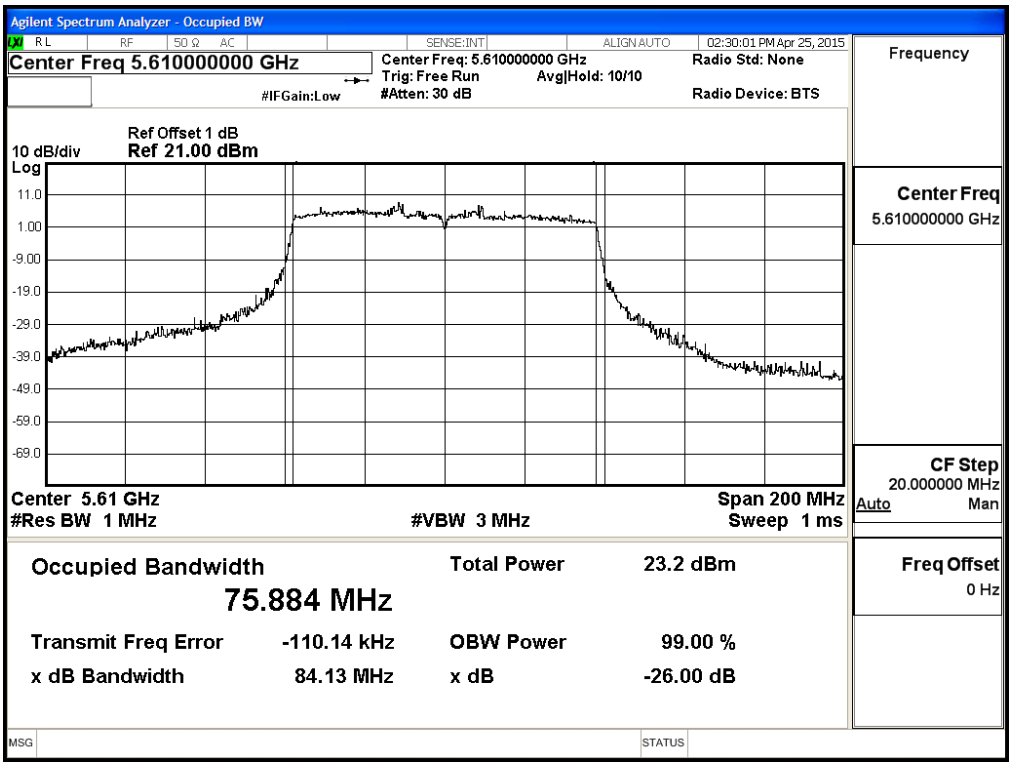
Channel 58: Chain A



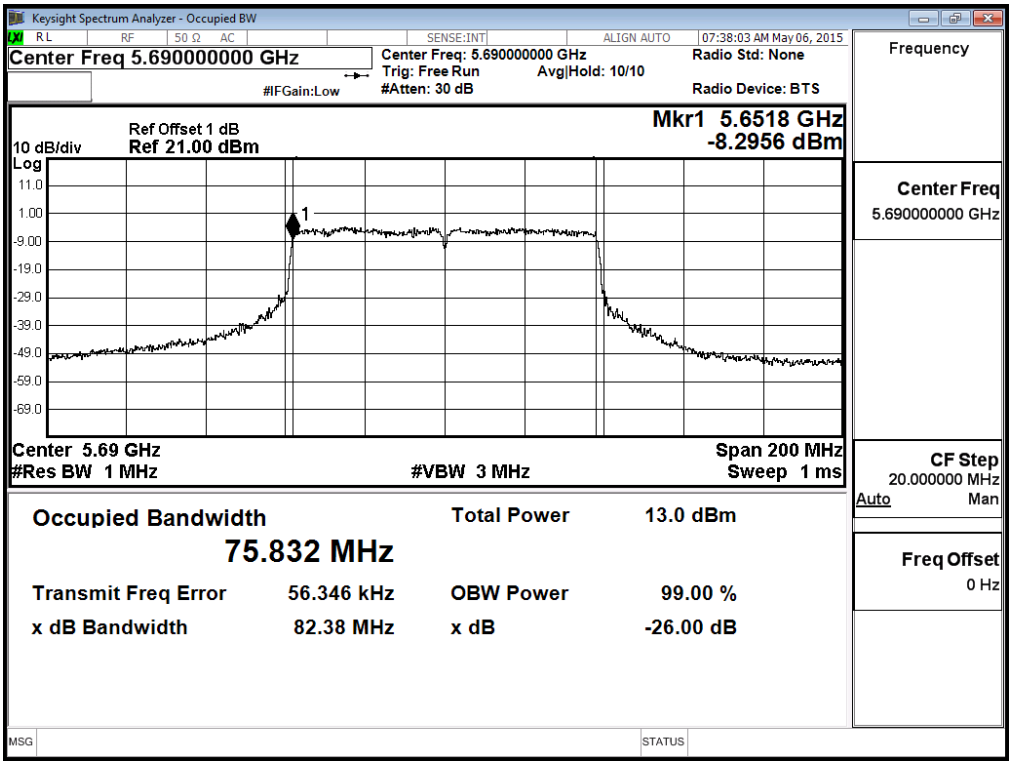
Channel 106: Chain A



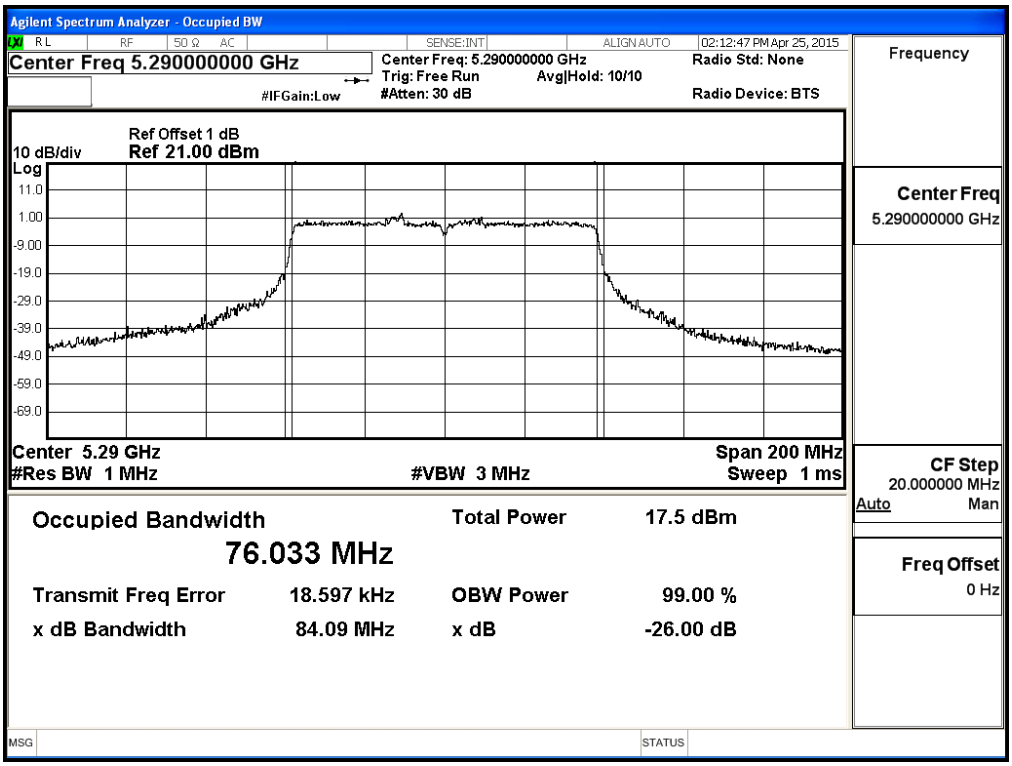
Channel 122: Chain A



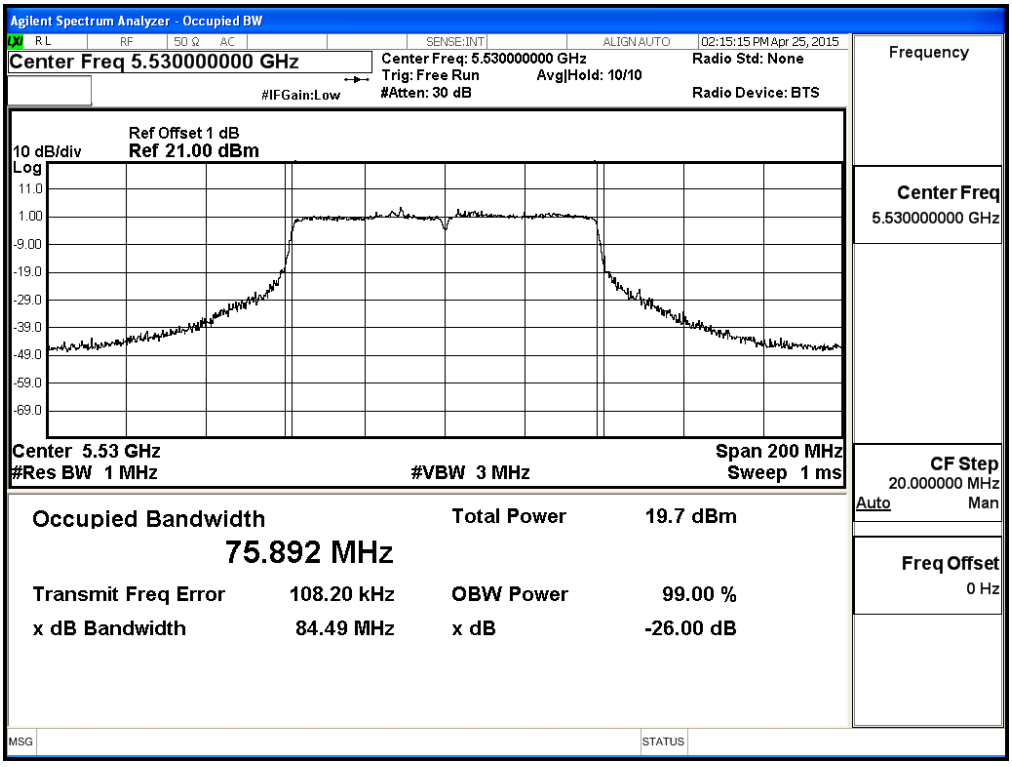
Channel 138: Chain A



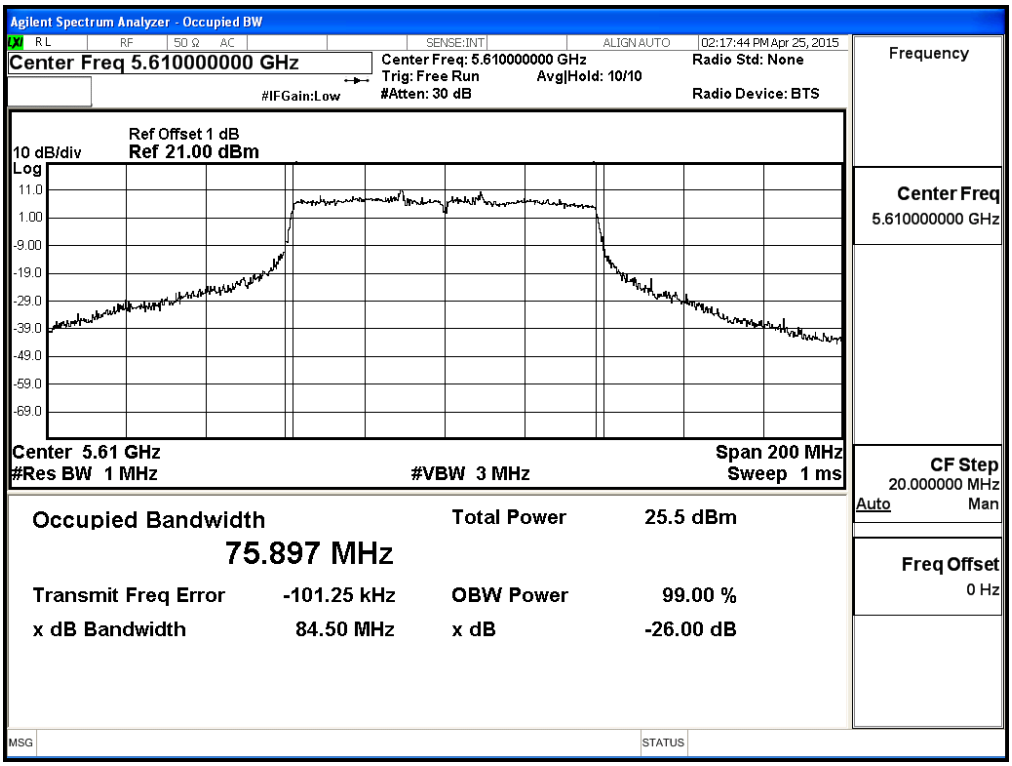
Channel 58: Chain B



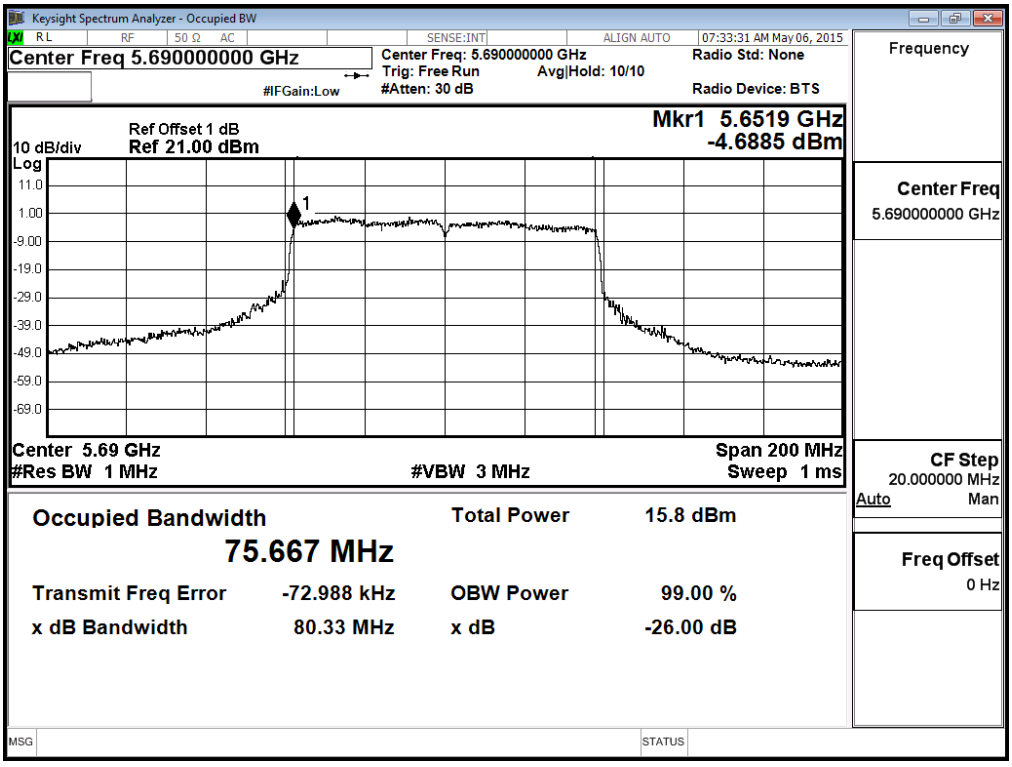
Channel 106: Chain B



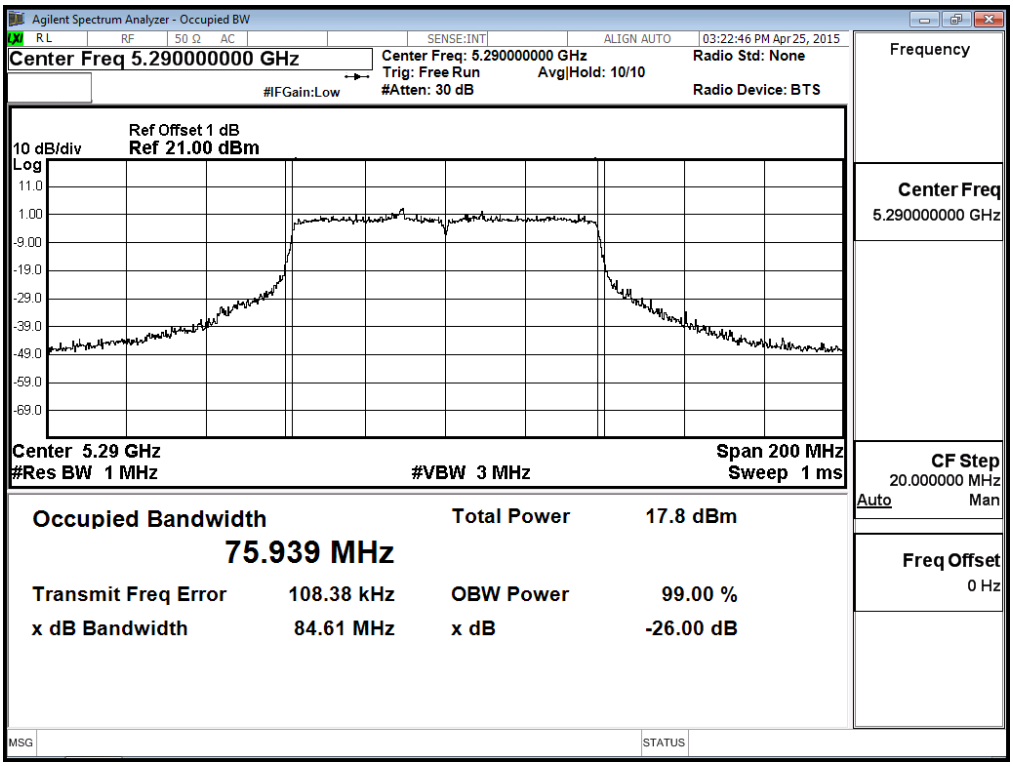
Channel 122: Chain B



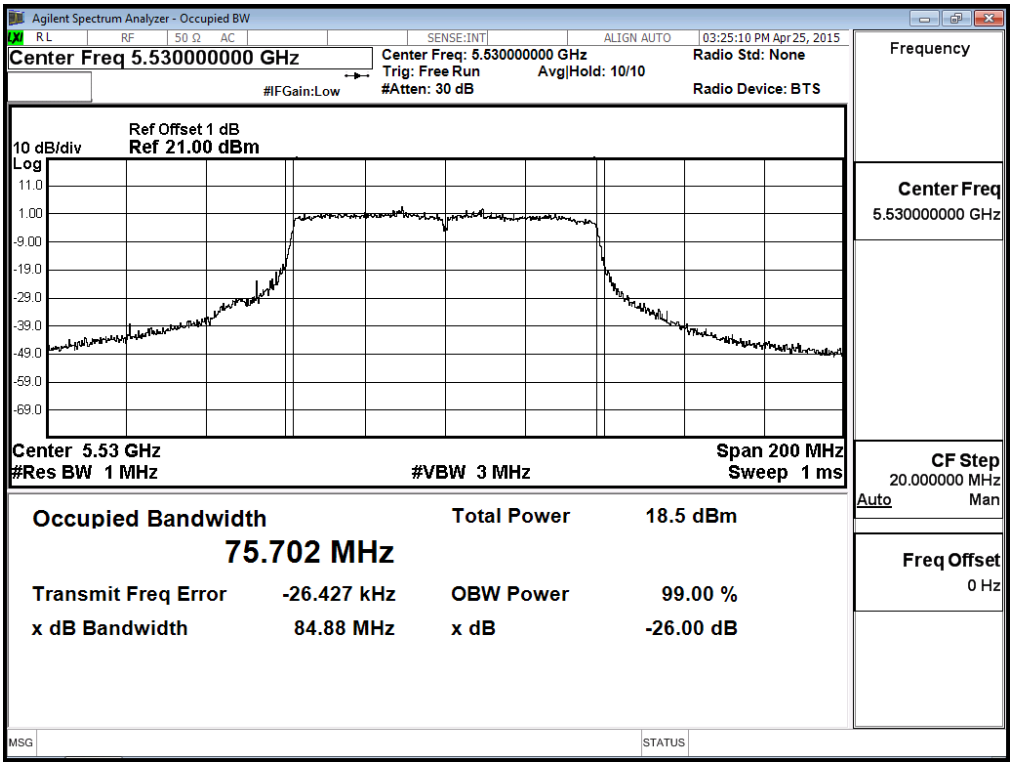
Channel 138: Chain B



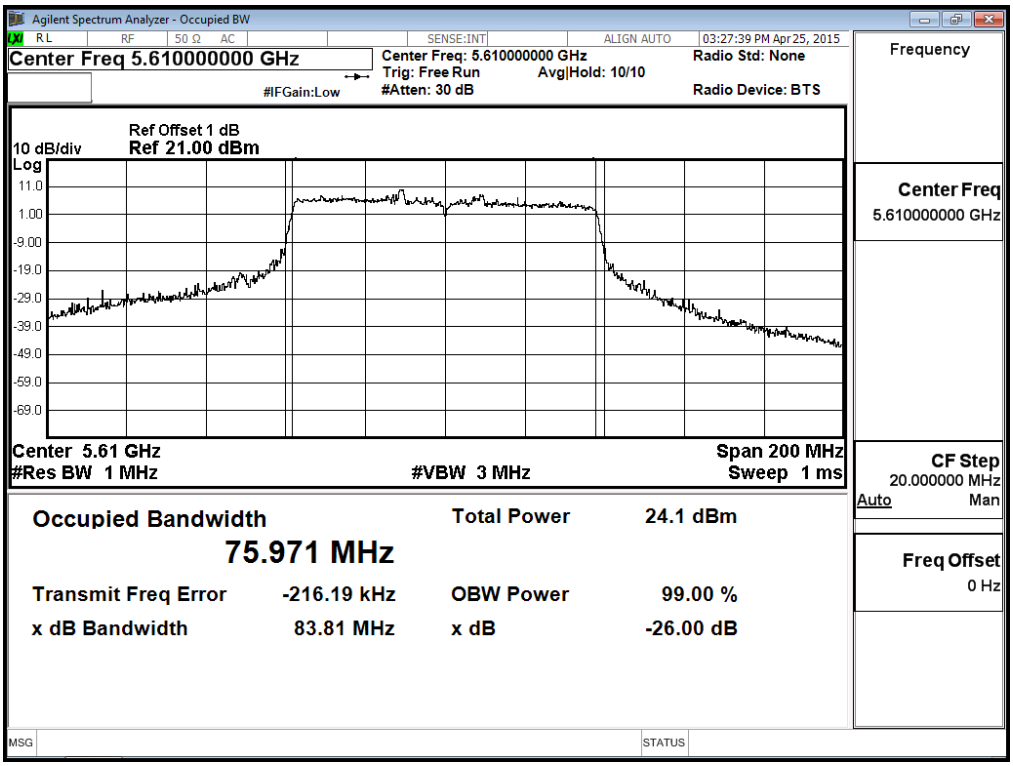
Channel 58: Chain C



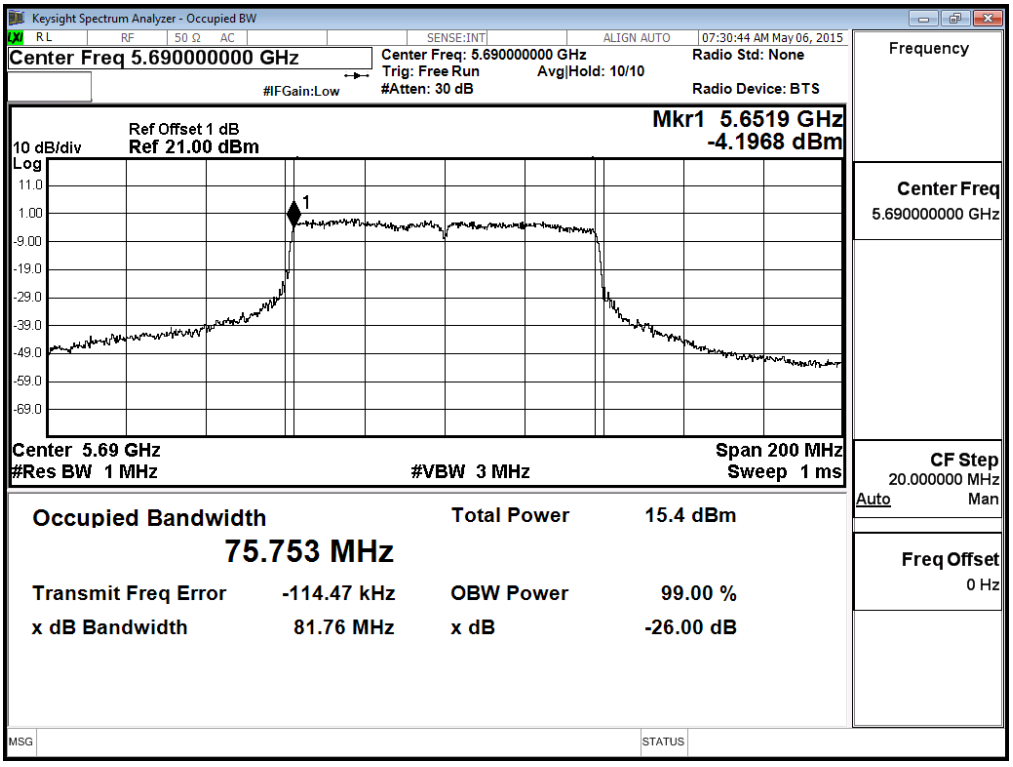
Channel 106: Chain C



Channel 122: Chain C

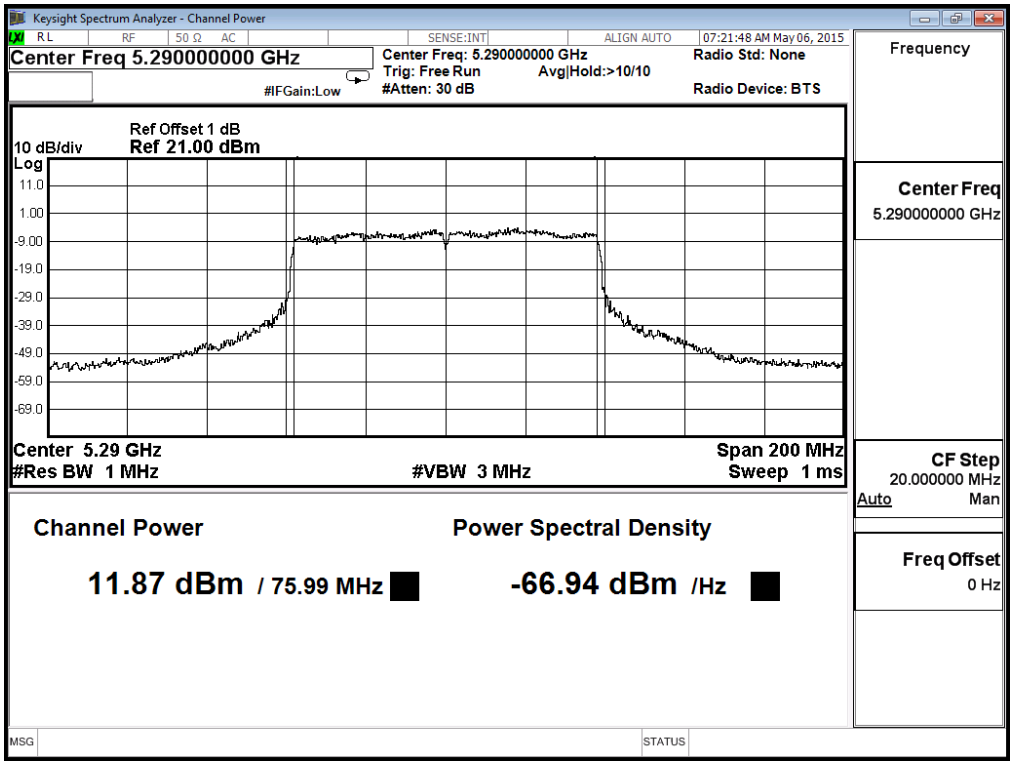


Channel 138: Chain C



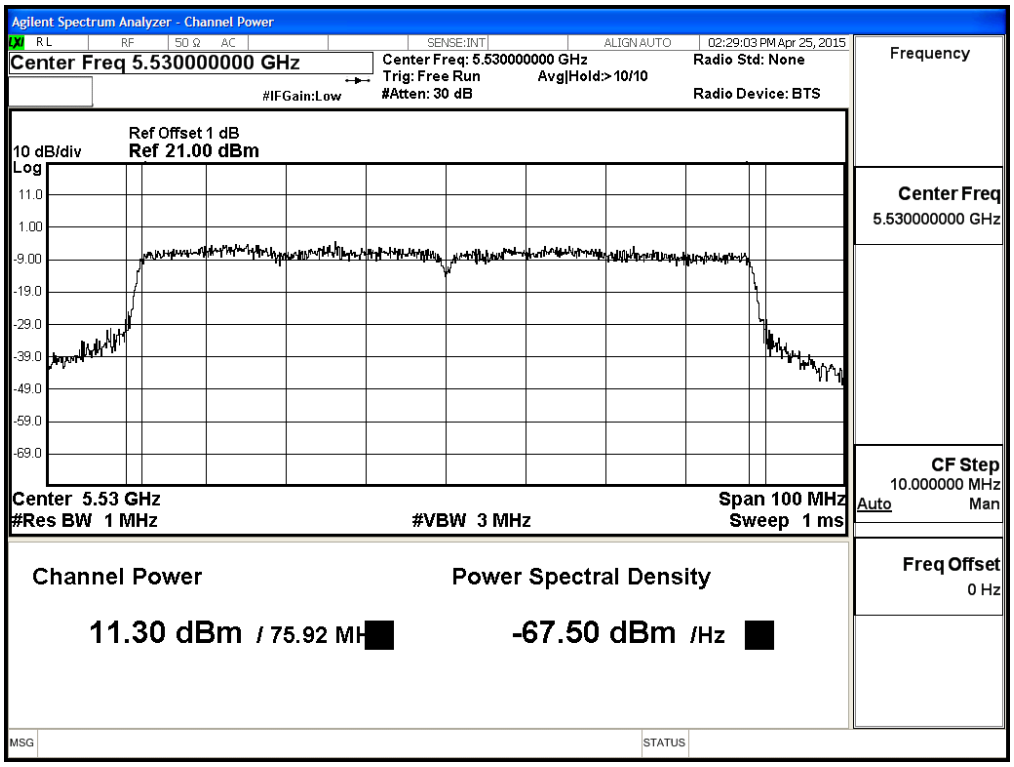
Maximum conducted output power:

Channel 58 – Chain A



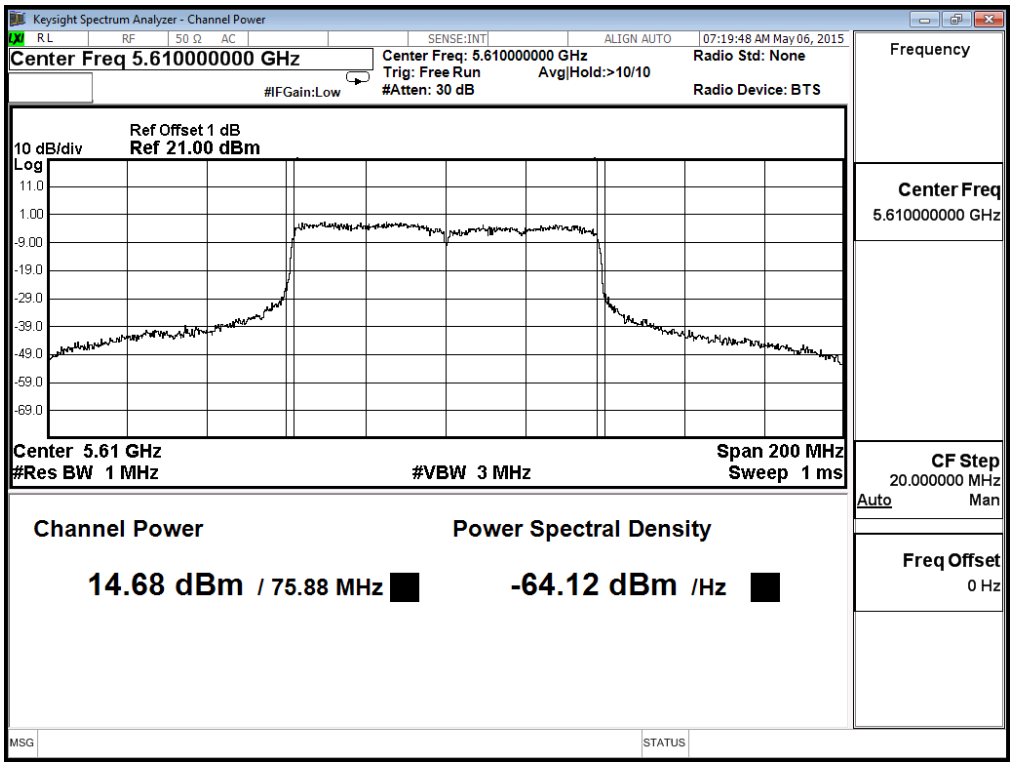
Maximum conducted output power:

Channel 106 – Chain A



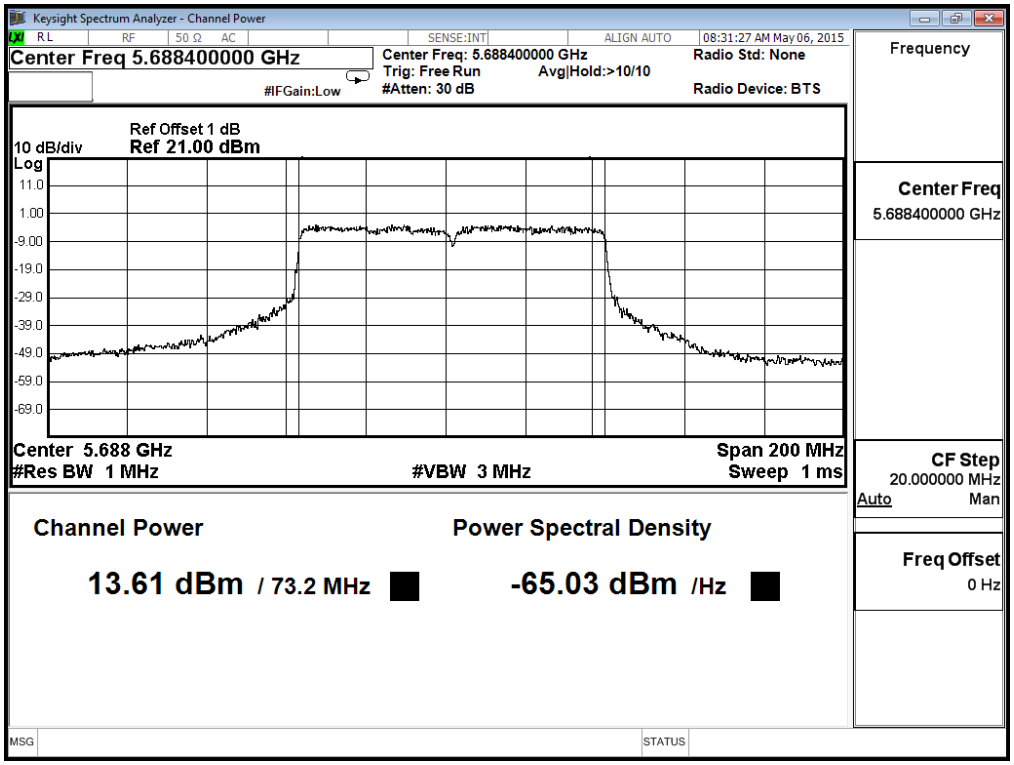
Maximum conducted output power:

Channel 122 – Chain A



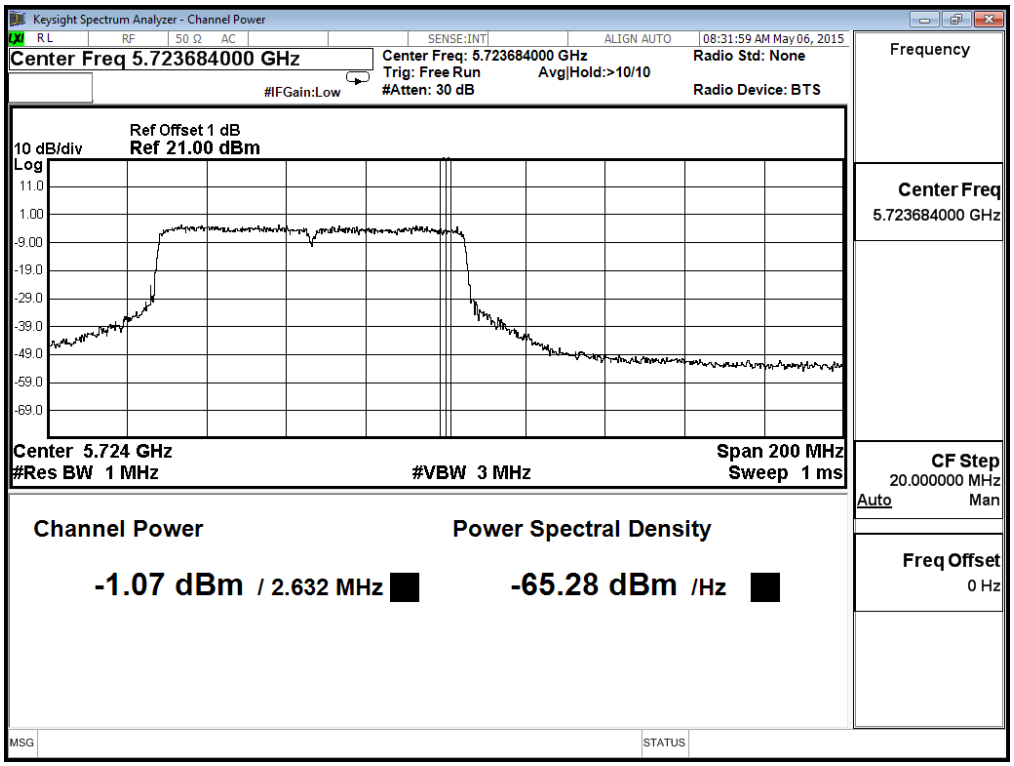
Maximum conducted output power:

Channel 138 – Chain A



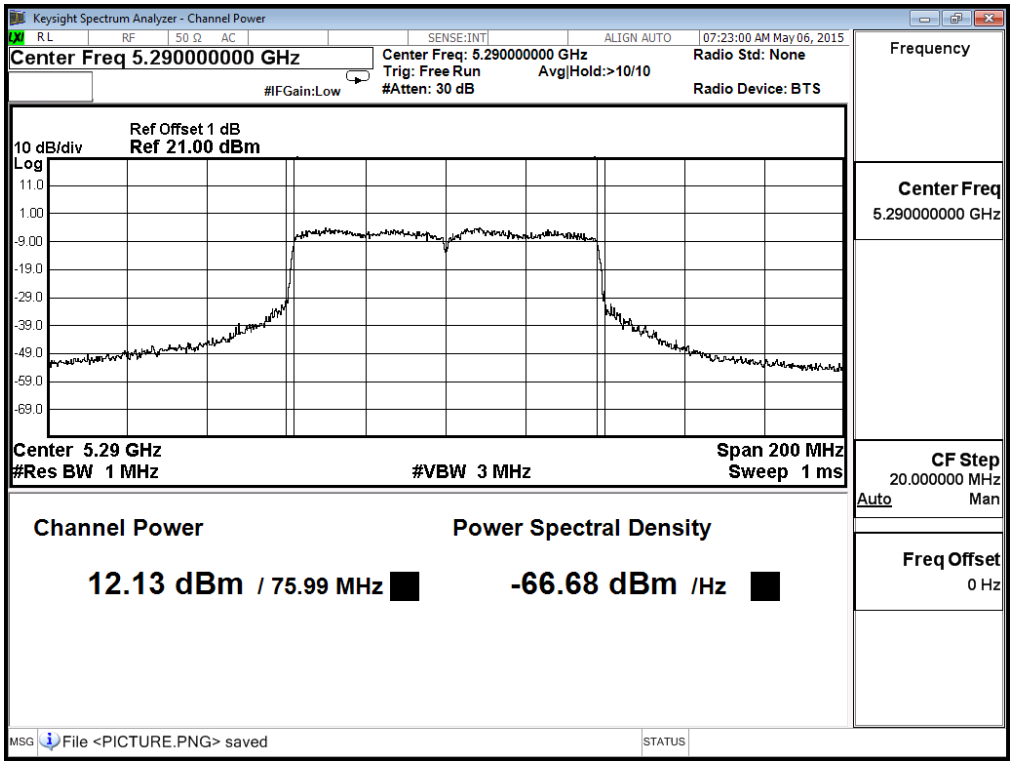
Maximum conducted output power:

Channel 138 – Chain A



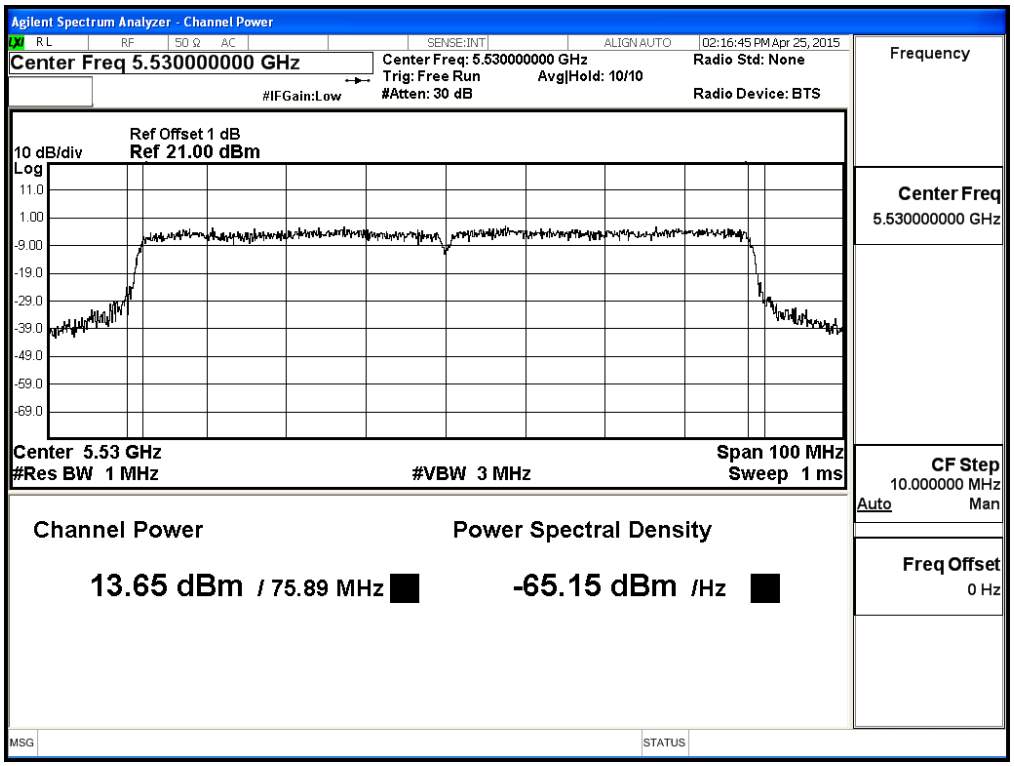
Maximum conducted output power:

Channel 58 – Chain B



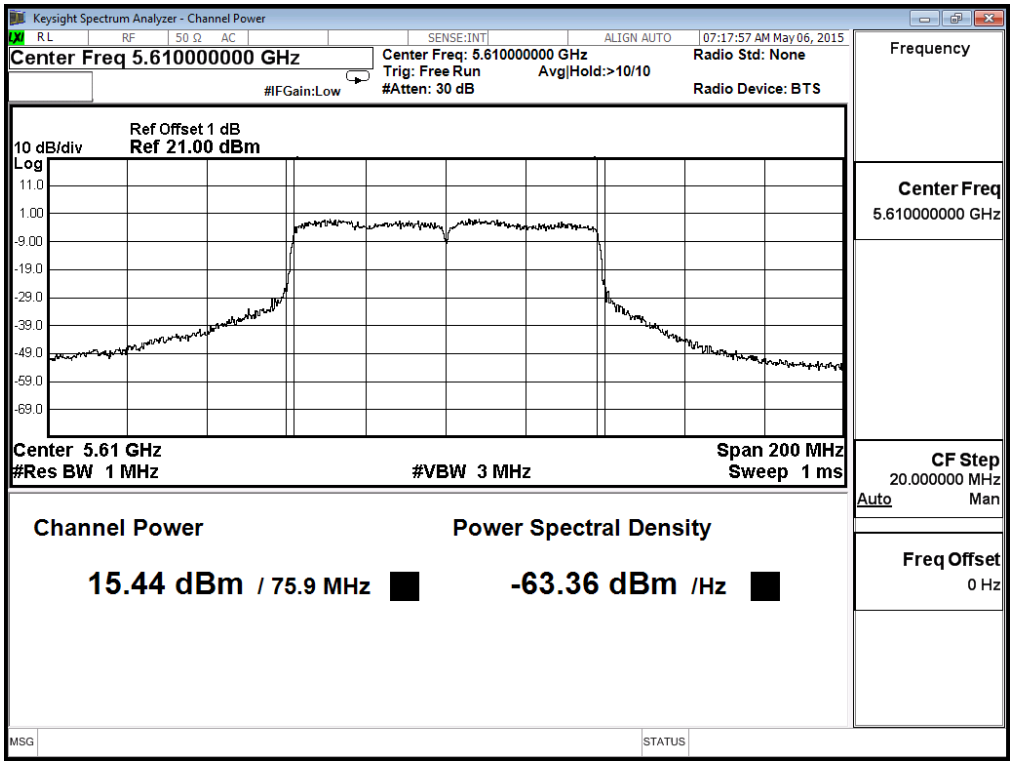
Maximum conducted output power:

Channel 106 – Chain B



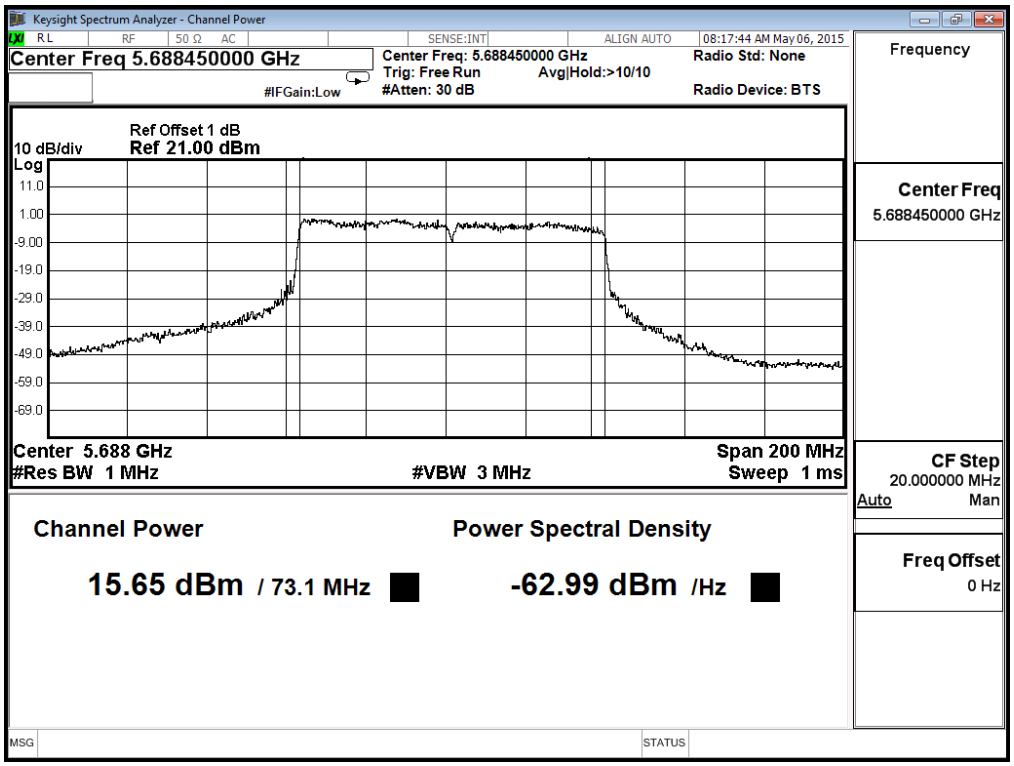
Maximum conducted output power:

Channel 122 – Chain B



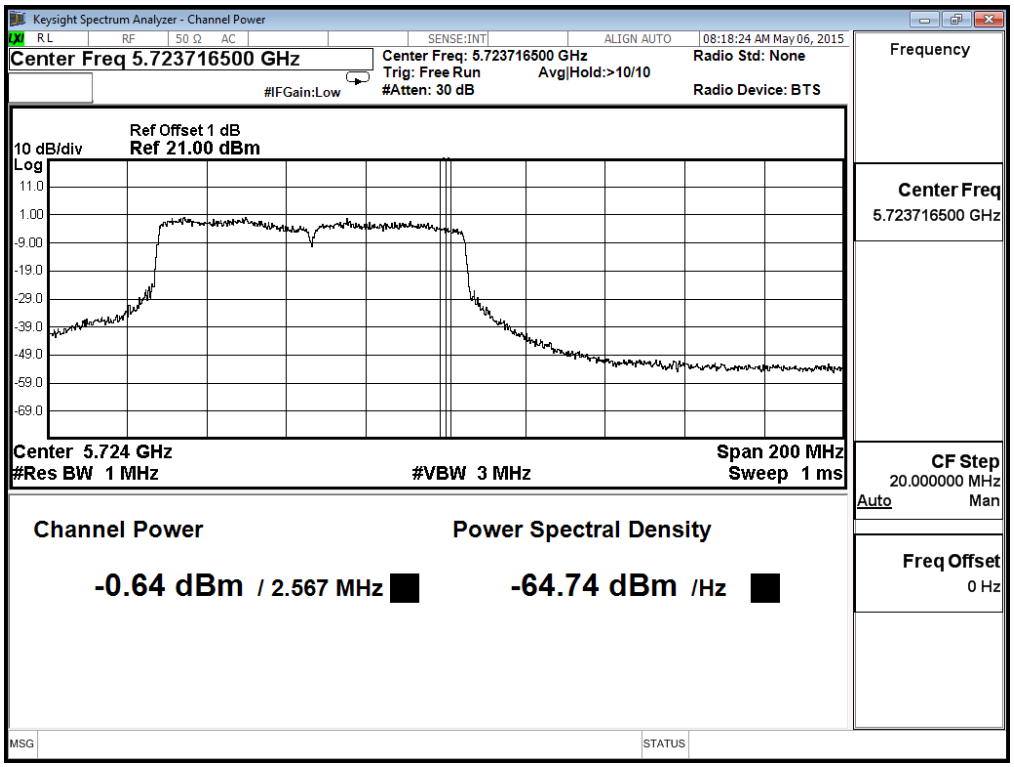
Maximum conducted output power:

Channel 138 – Chain B



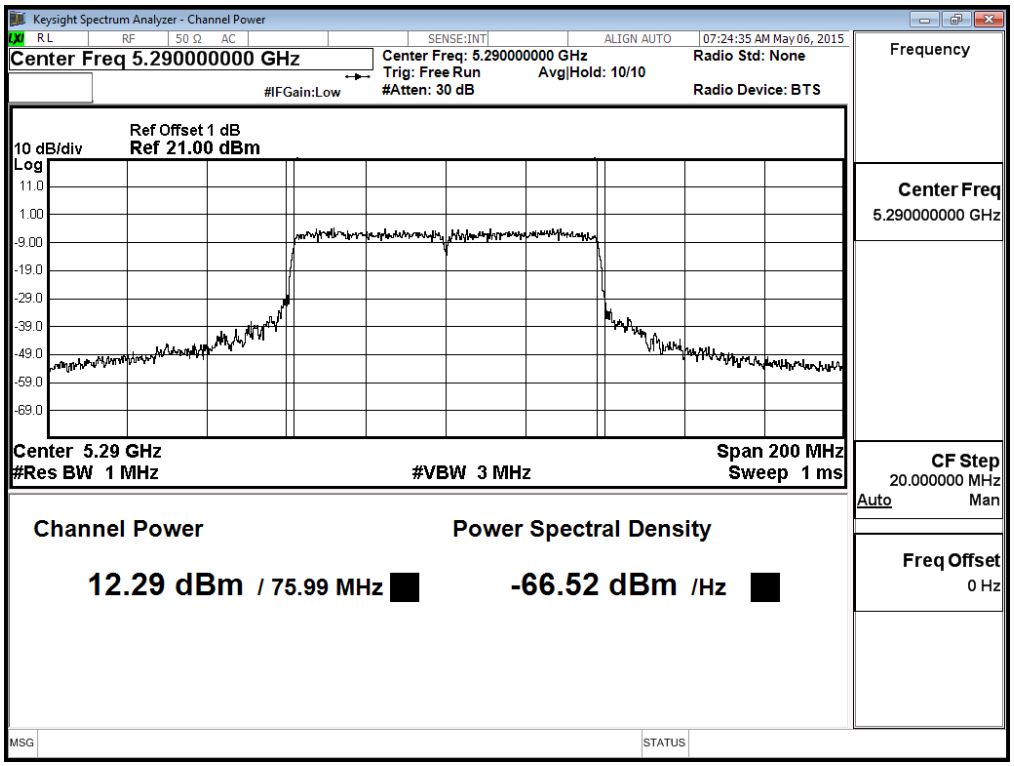
Maximum conducted output power:

Channel 138 – Chain B



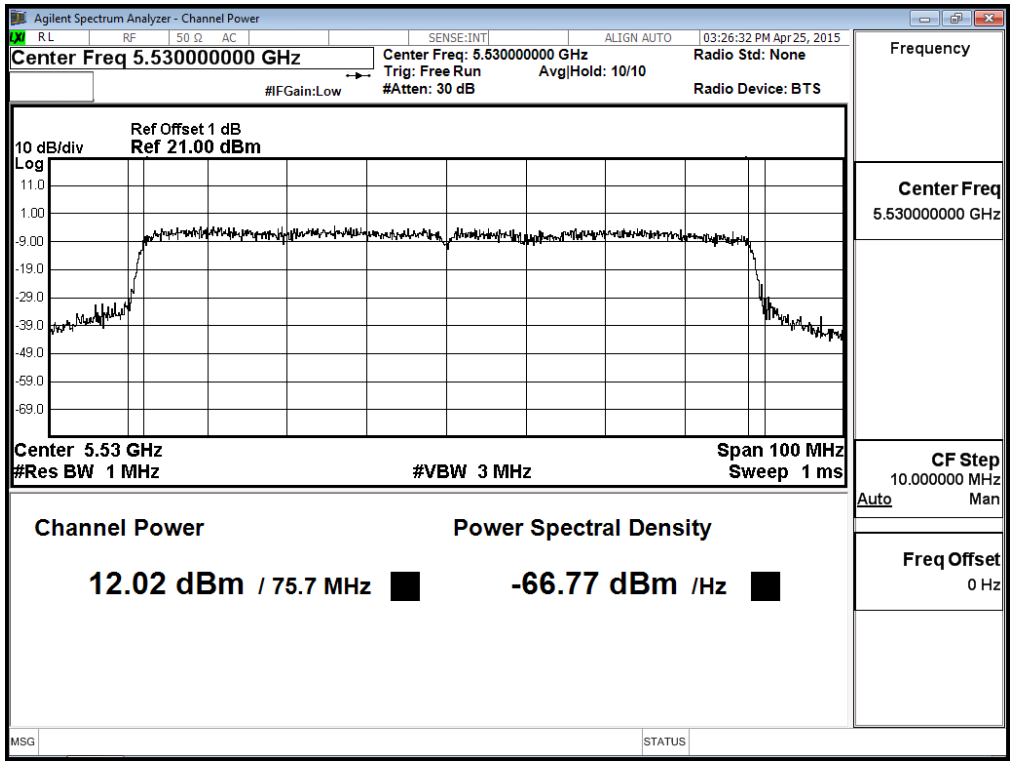
Maximum conducted output power:

Channel 58 – Chain C



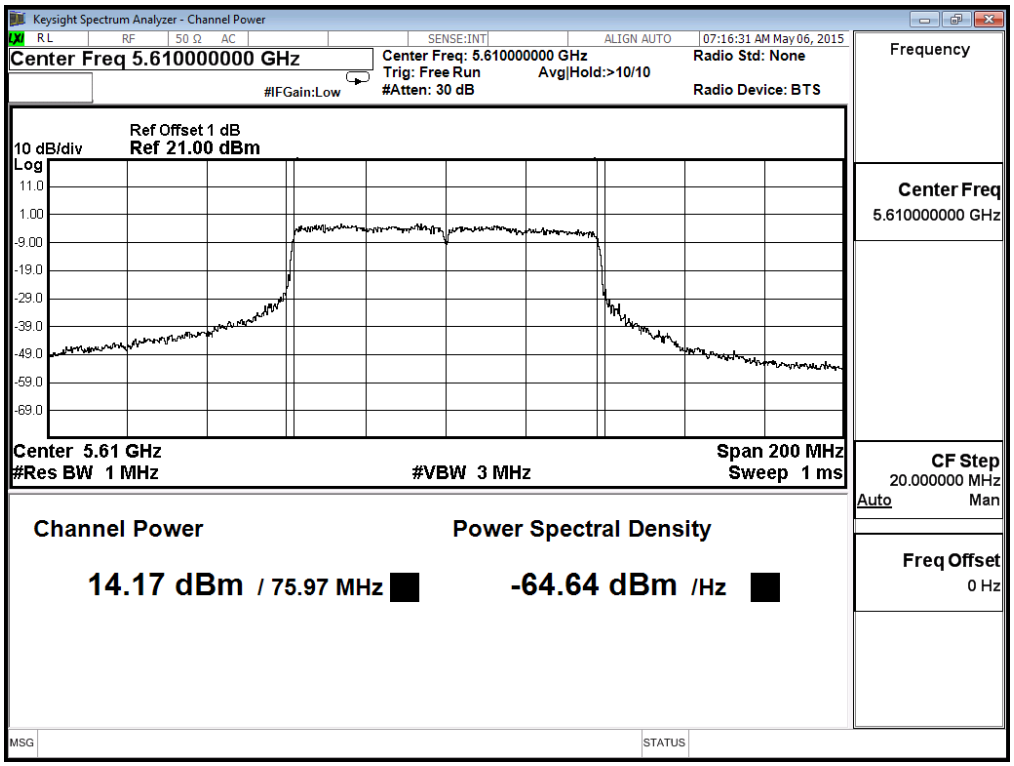
Maximum conducted output power:

Channel 106 – Chain C



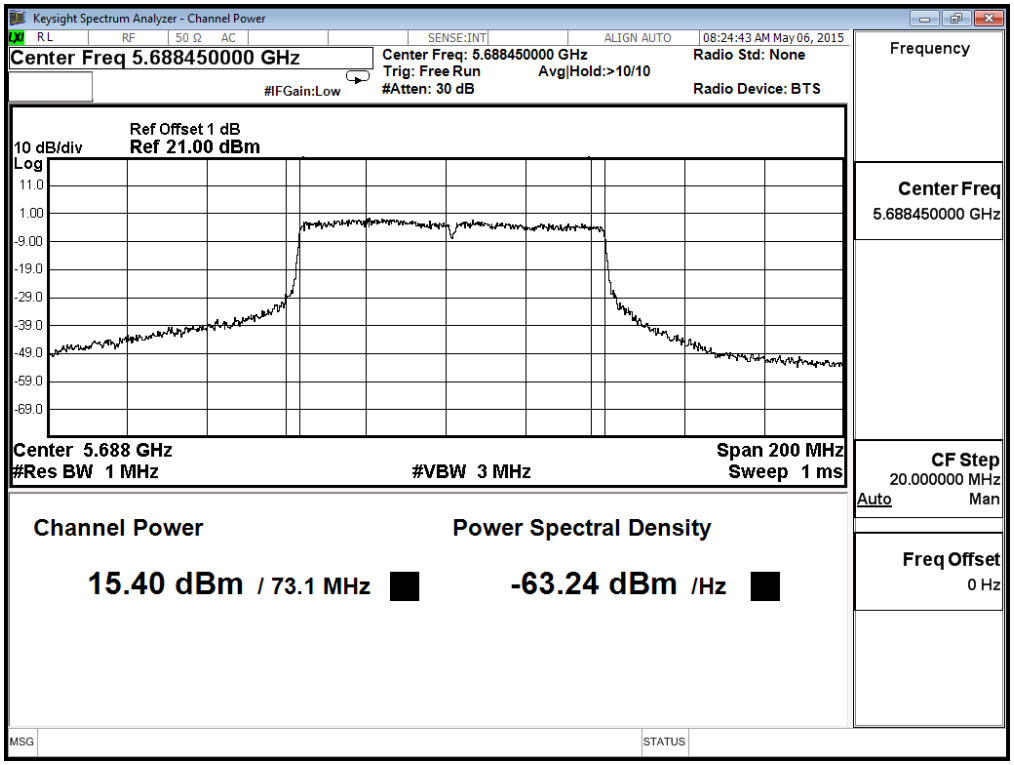
Maximum conducted output power:

Channel 122 – Chain C



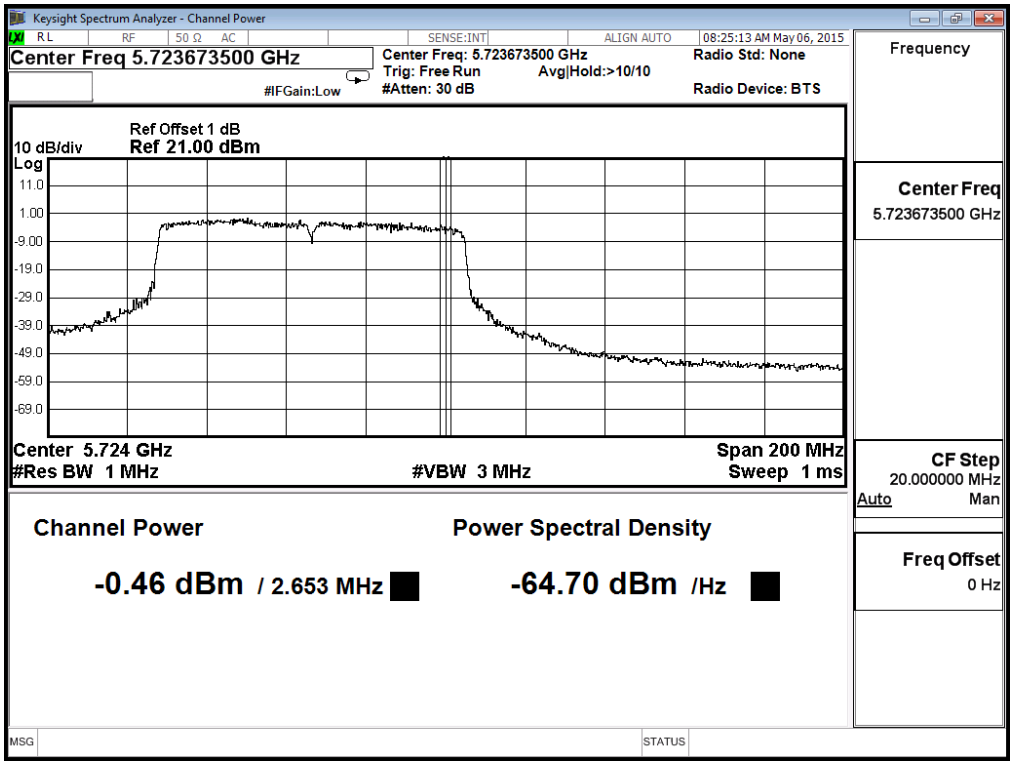
Maximum conducted output power:

Channel 138 – Chain C



Maximum conducted output power:

Channel 138 – Chain C



4. Peak Power Spectral Density

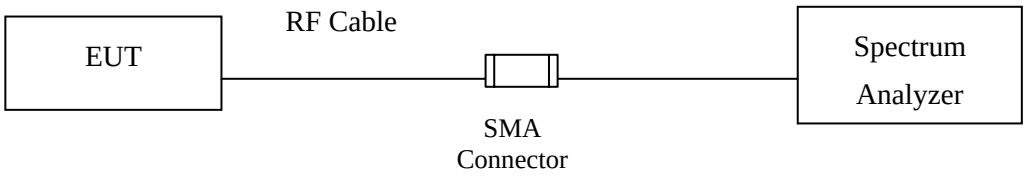
4.1. Test Equipment

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

△ 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 C63.10:2013; tested to DTS 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 : Access Point/Sensor
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter (802.11a-6Mbps) (Internal Antenna)

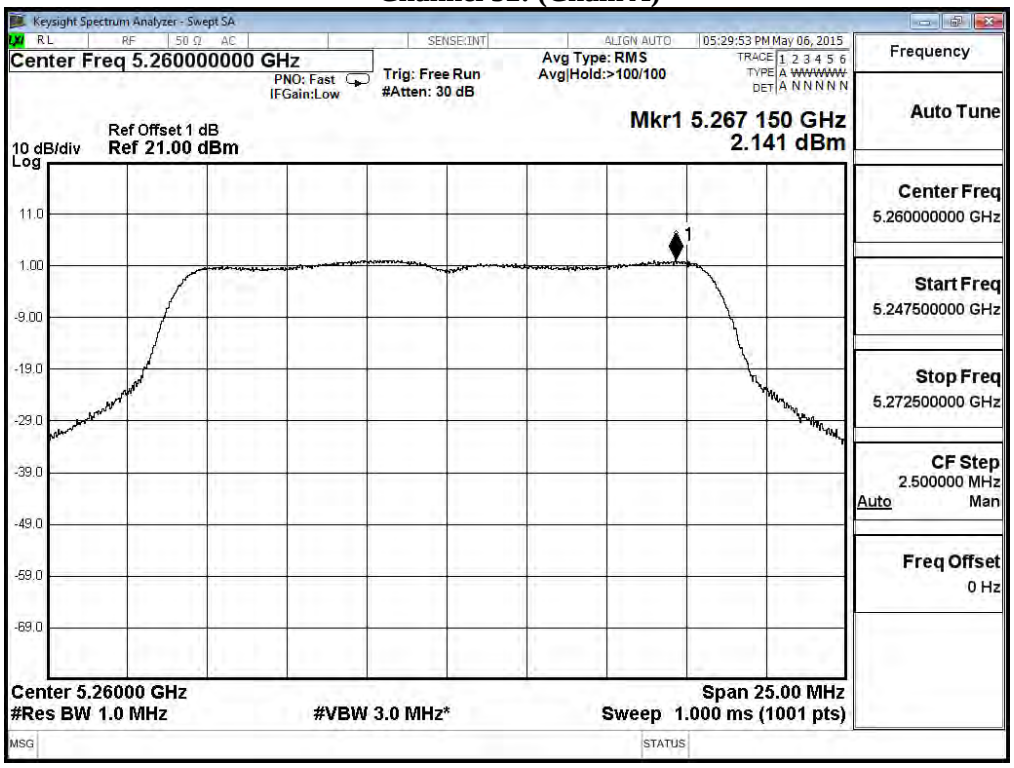
5250~5350MHz, 5470-5600 MHz and 5650-5725 MHz

Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)	Required Limit (dBm)	Result
52	5260	A	2.141	6.912	8.4	Pass
		B	1.607	6.378	8.4	Pass
		C	2.027	6.798	8.4	Pass
60	5300	A	1.565	6.336	8.4	Pass
		B	1.937	6.708	8.4	Pass
		C	2.004	6.775	8.4	Pass
64	5320	A	1.740	6.511	8.4	Pass
		B	1.700	6.471	8.4	Pass
		C	2.510	7.281	8.4	Pass
100	5500	A	-1.288	3.483	5.9	Pass
		B	-1.202	3.569	5.9	Pass
		C	-1.229	3.542	5.9	Pass
116	5580	A	-1.548	3.223	5.9	Pass
		B	-0.847	3.924	5.9	Pass
		C	-0.886	3.885	5.9	Pass
140	5700	A	-1.043	3.728	5.9	Pass
		B	-0.773	3.998	5.9	Pass
		C	-1.427	3.344	5.9	Pass

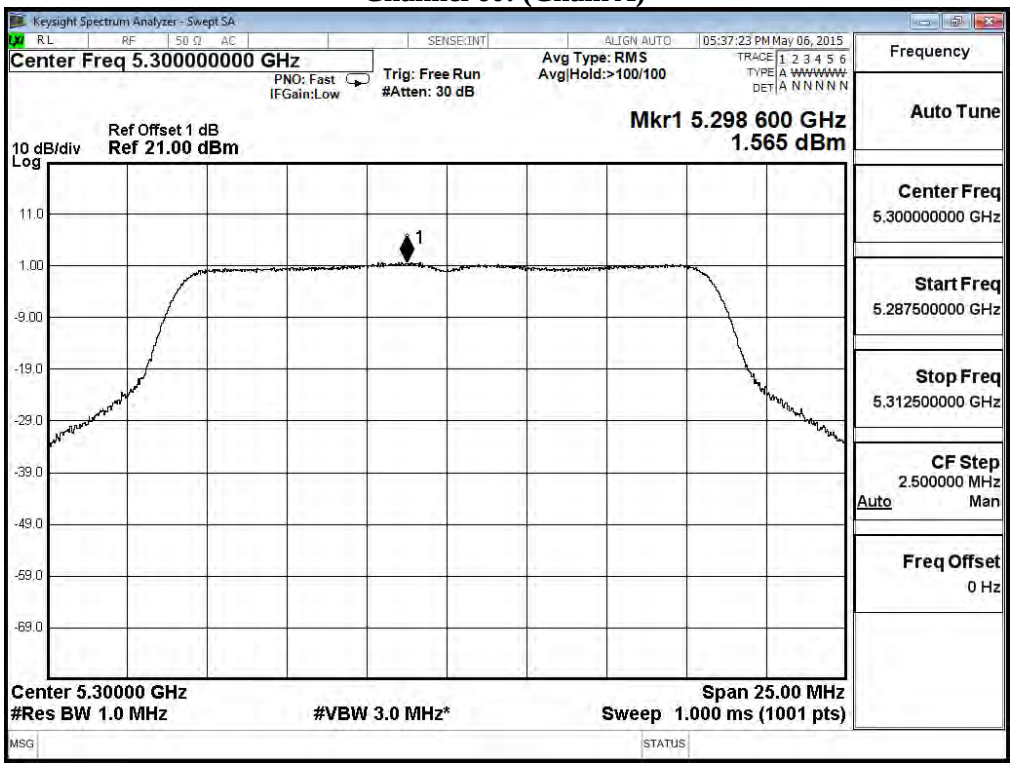
Note :

1. The quantity 10*log 3 (three antennas) is added to the spectrum peak value according to document 662911 D01.
2. The peak power spectral density shall be reduced by the amount in Db that the directional gain of the antenna exceeds 6 dBi.

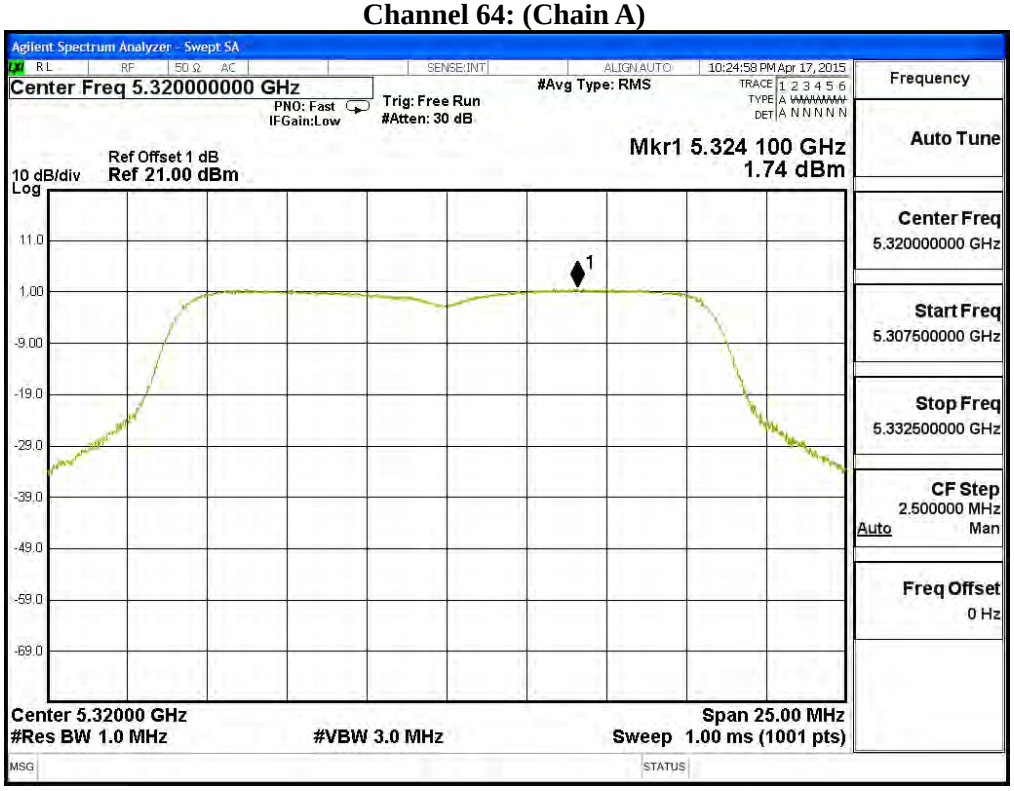
Channel 52: (Chain A)



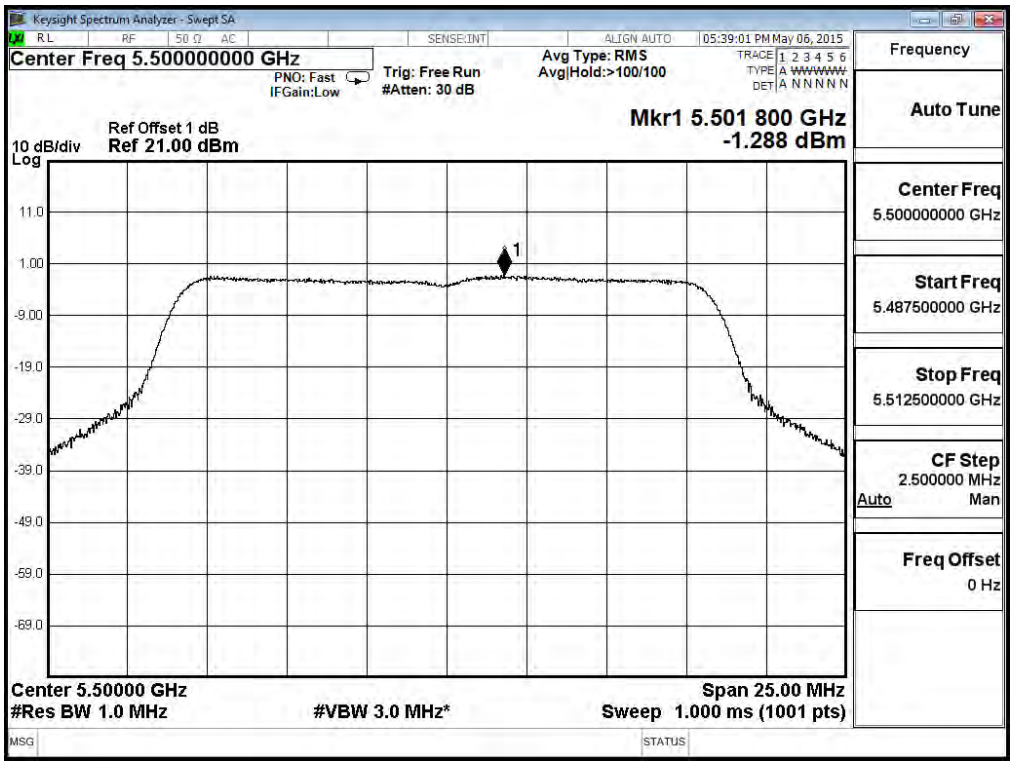
Channel 60: (Chain A)



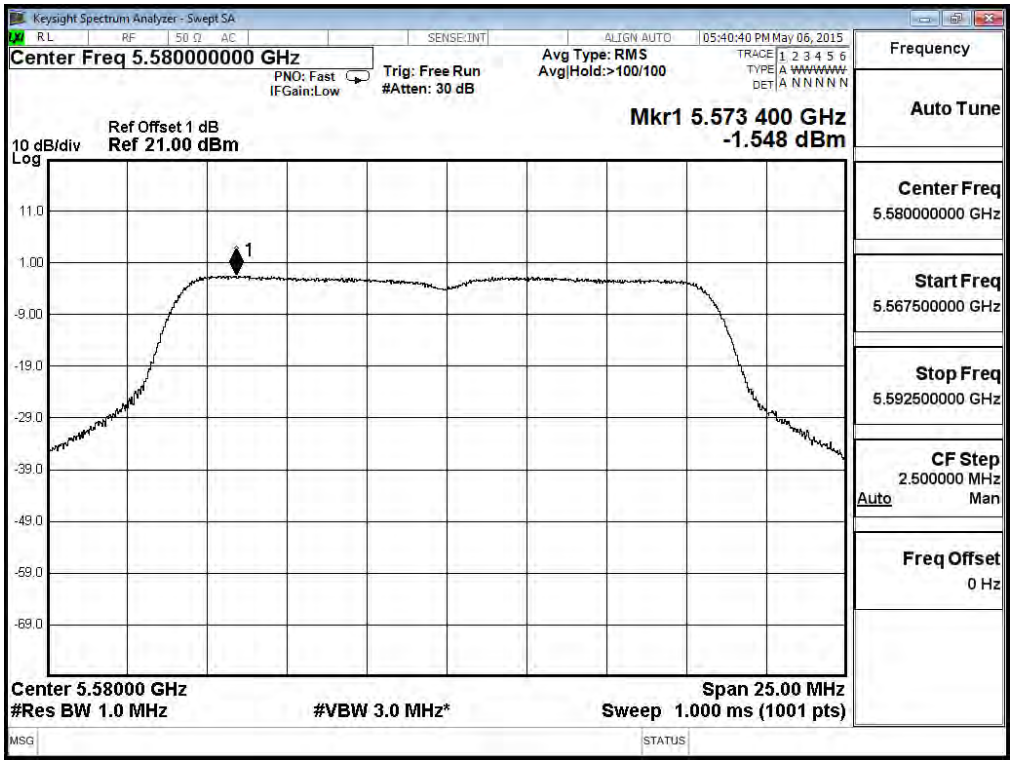
Channel 64: (Chain A)



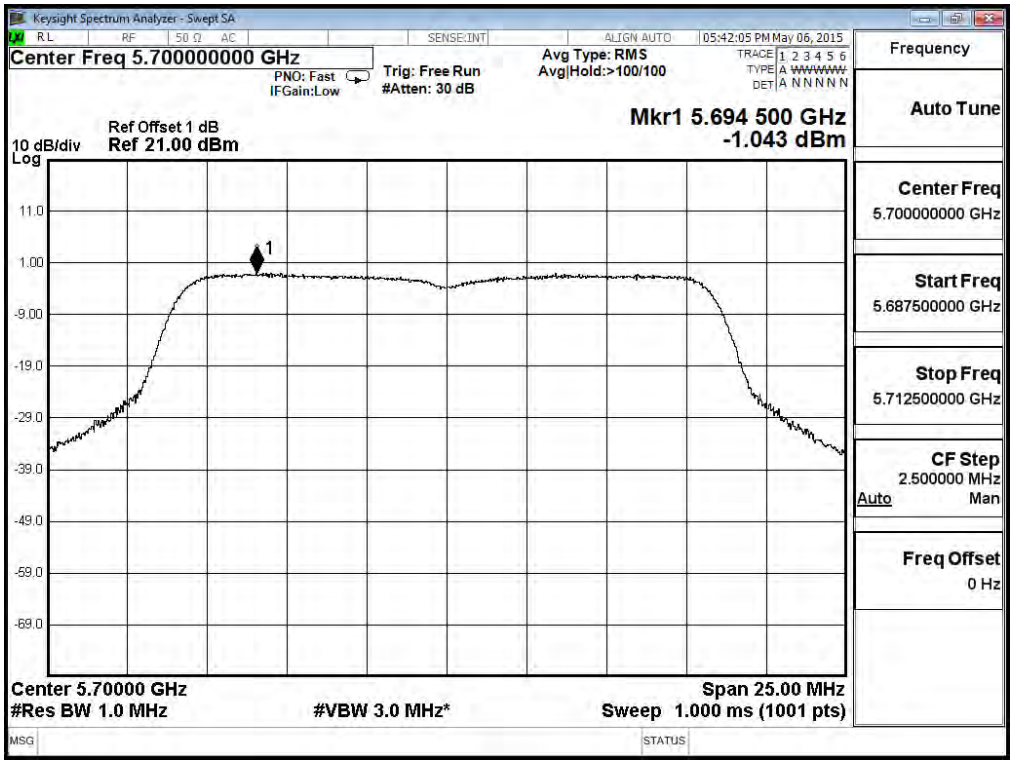
Channel 100: (Chain A)



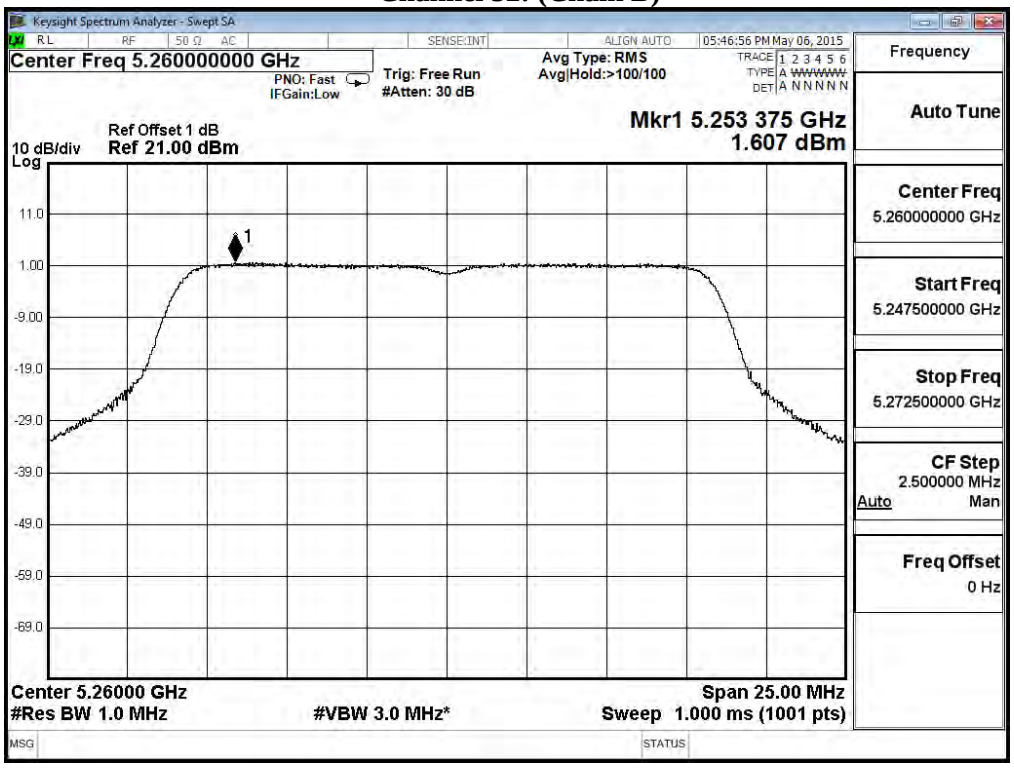
Channel 116: (Chain A)



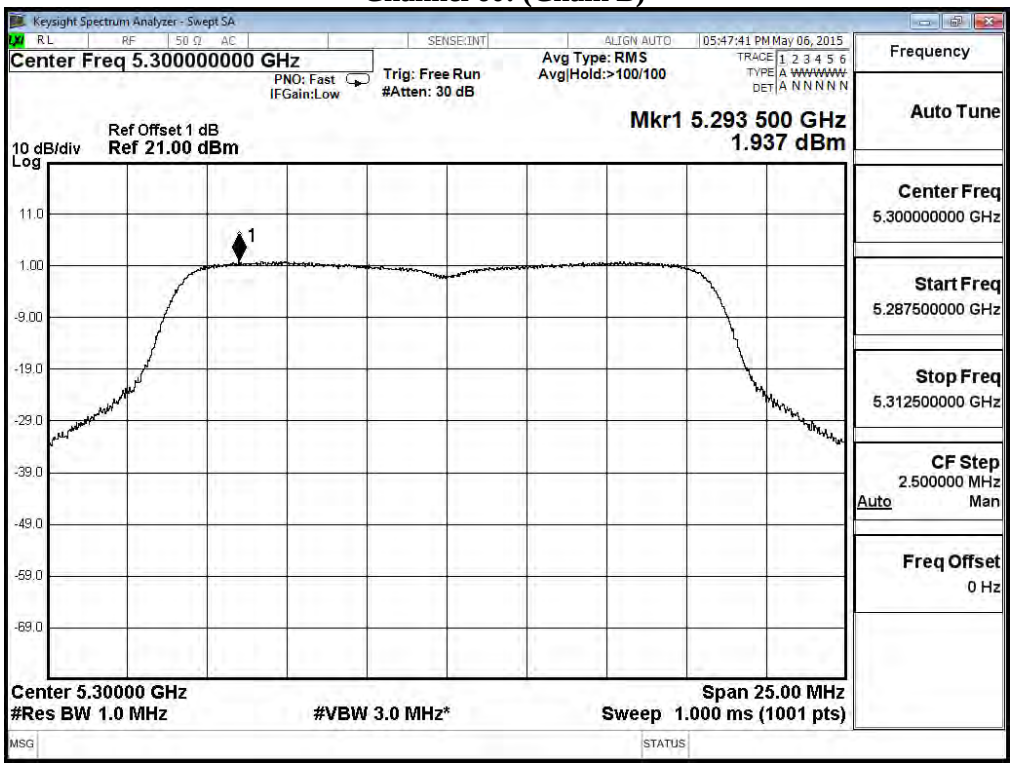
Channel 140: (Chain A)



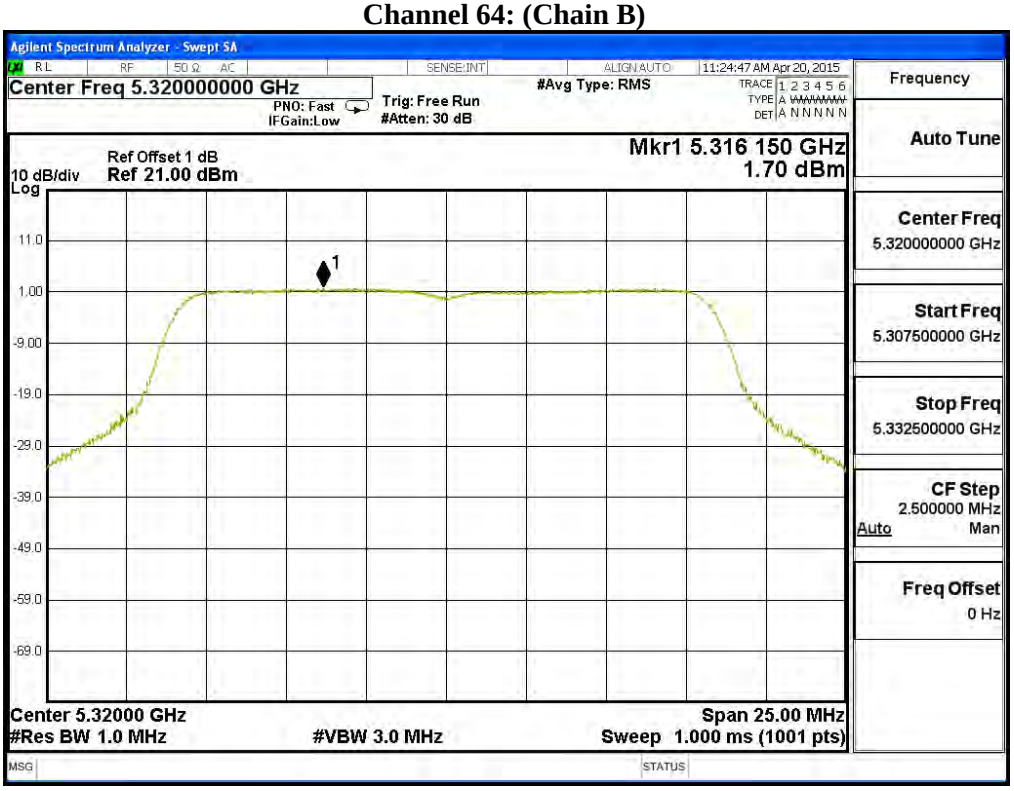
Channel 52: (Chain B)



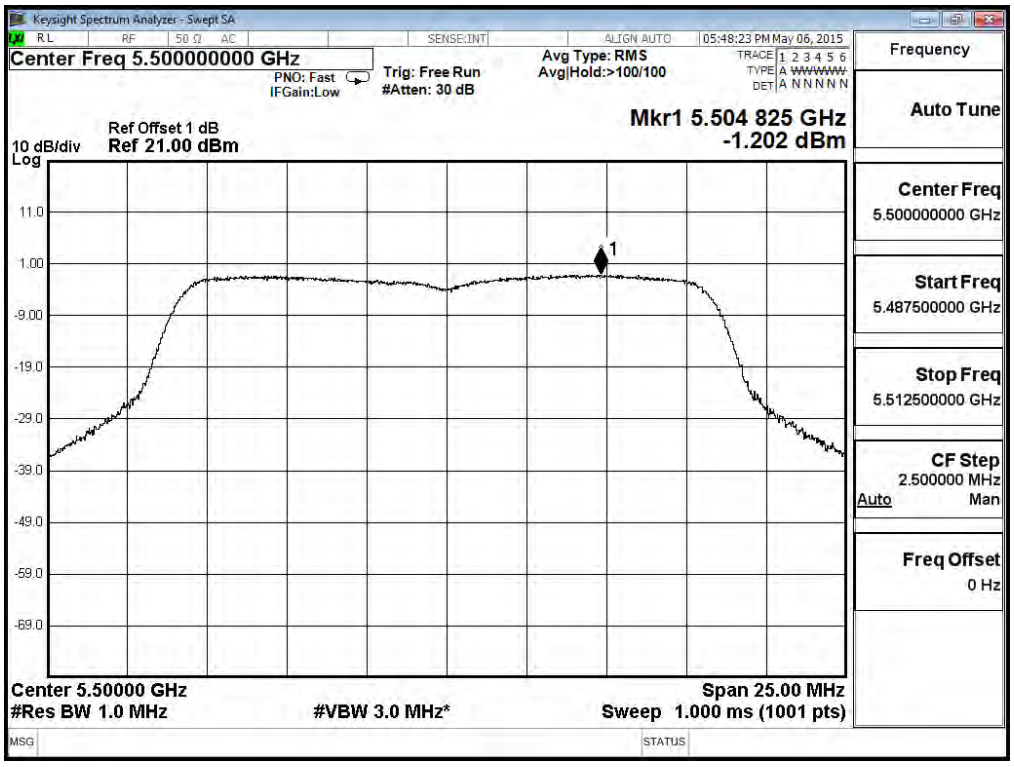
Channel 60: (Chain B)



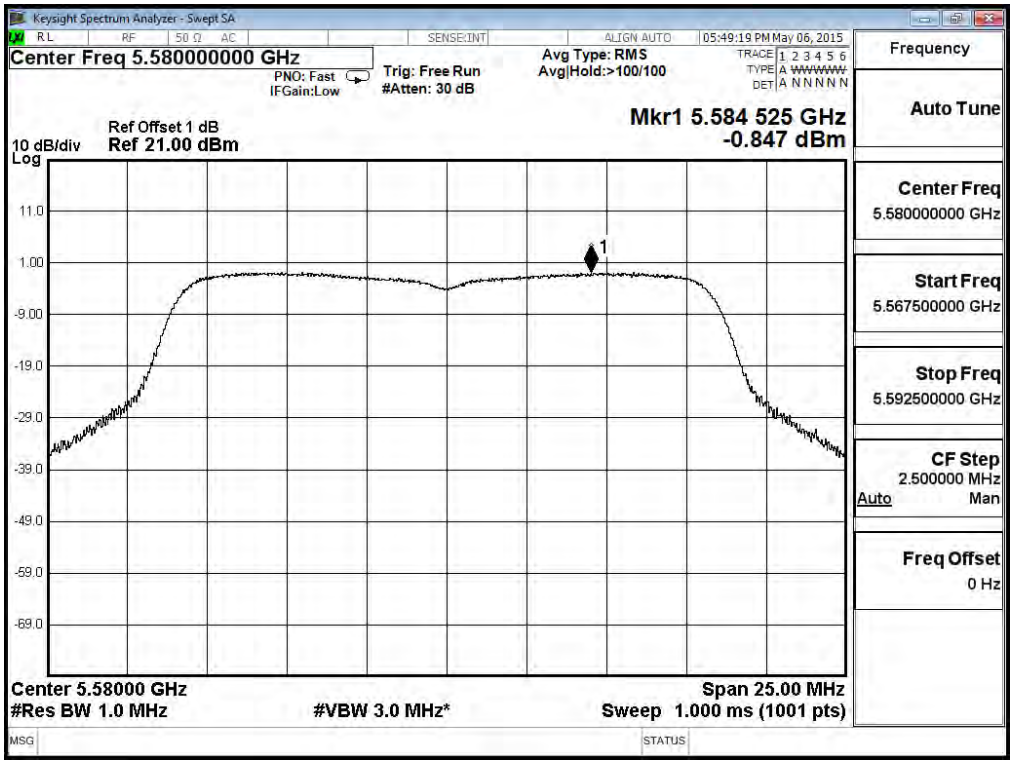
Channel 64: (Chain B)



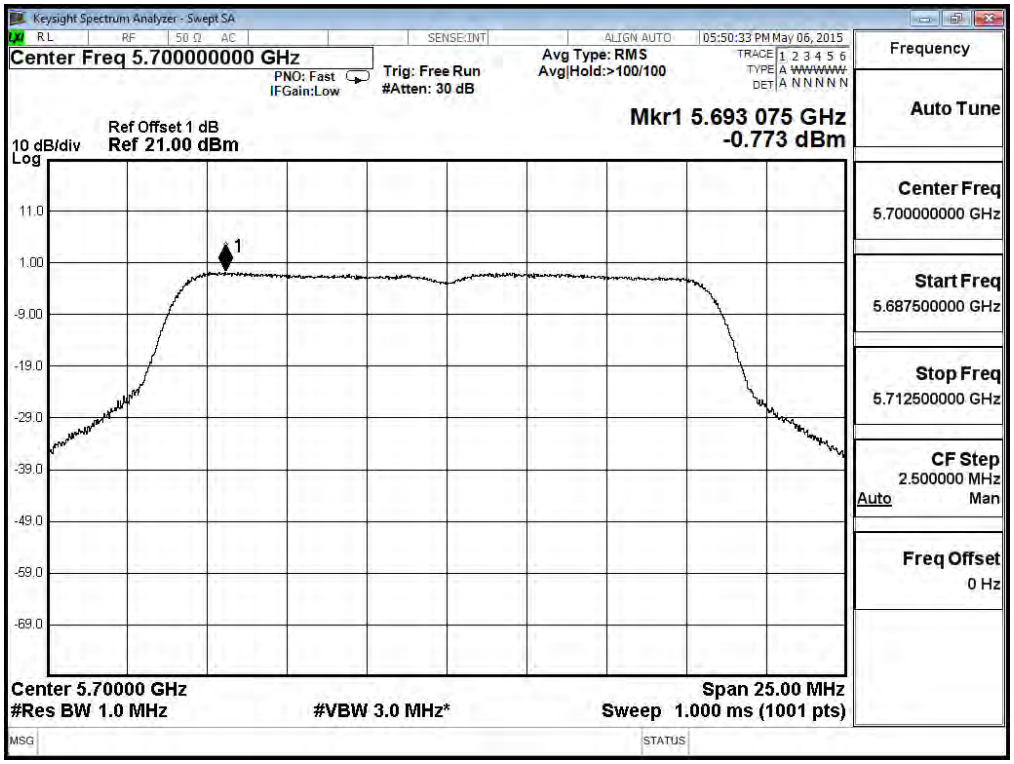
Channel 100: (Chain B)



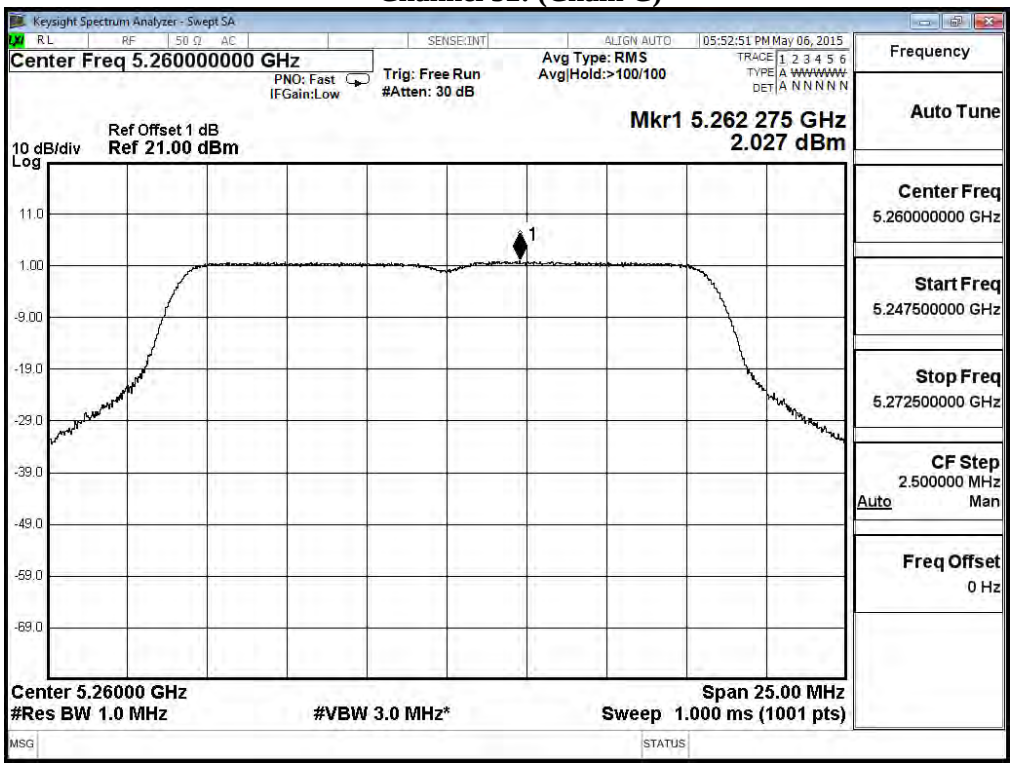
Channel 116: (Chain B)



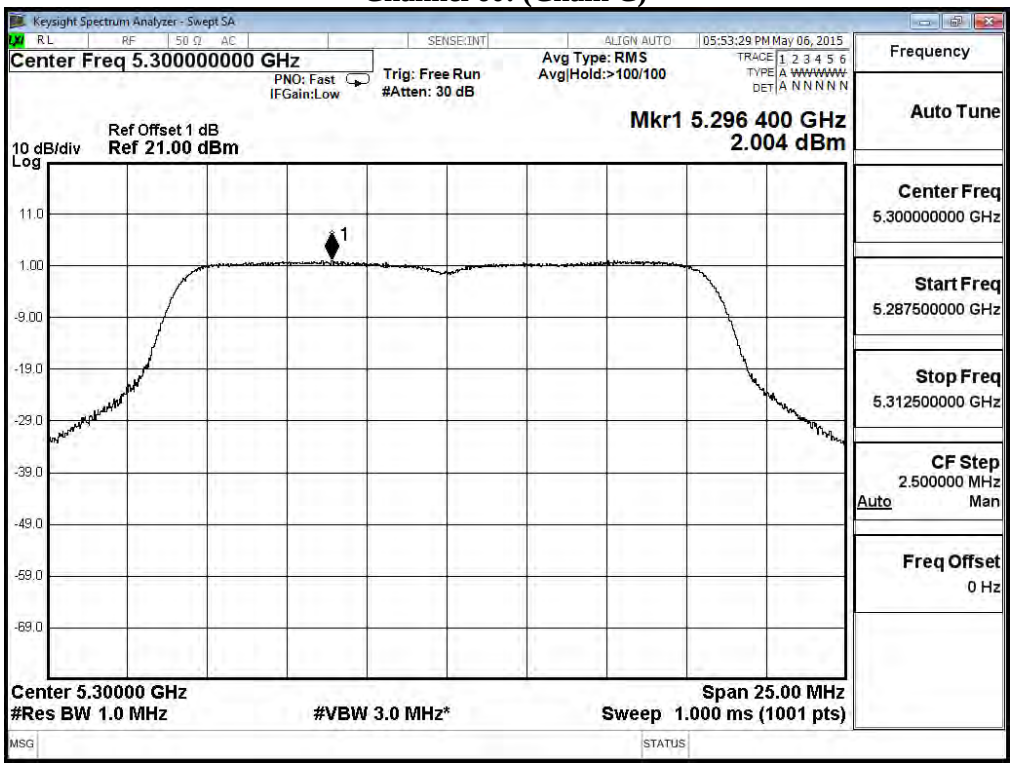
Channel 140: (Chain B)



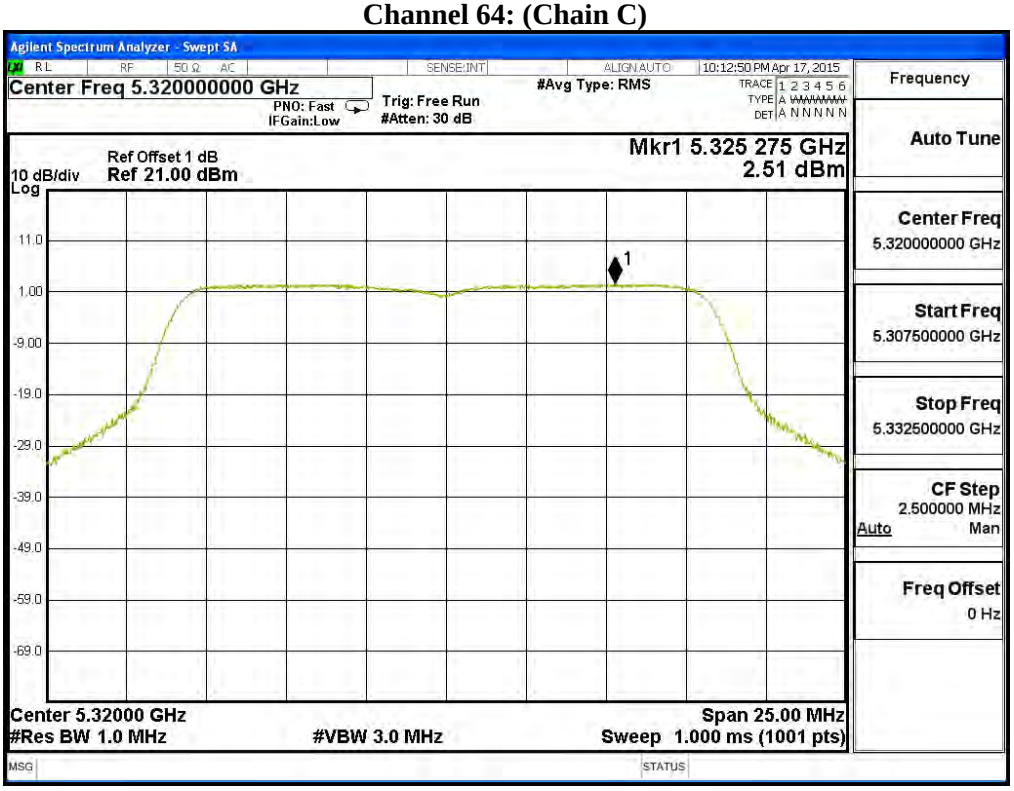
Channel 52: (Chain C)



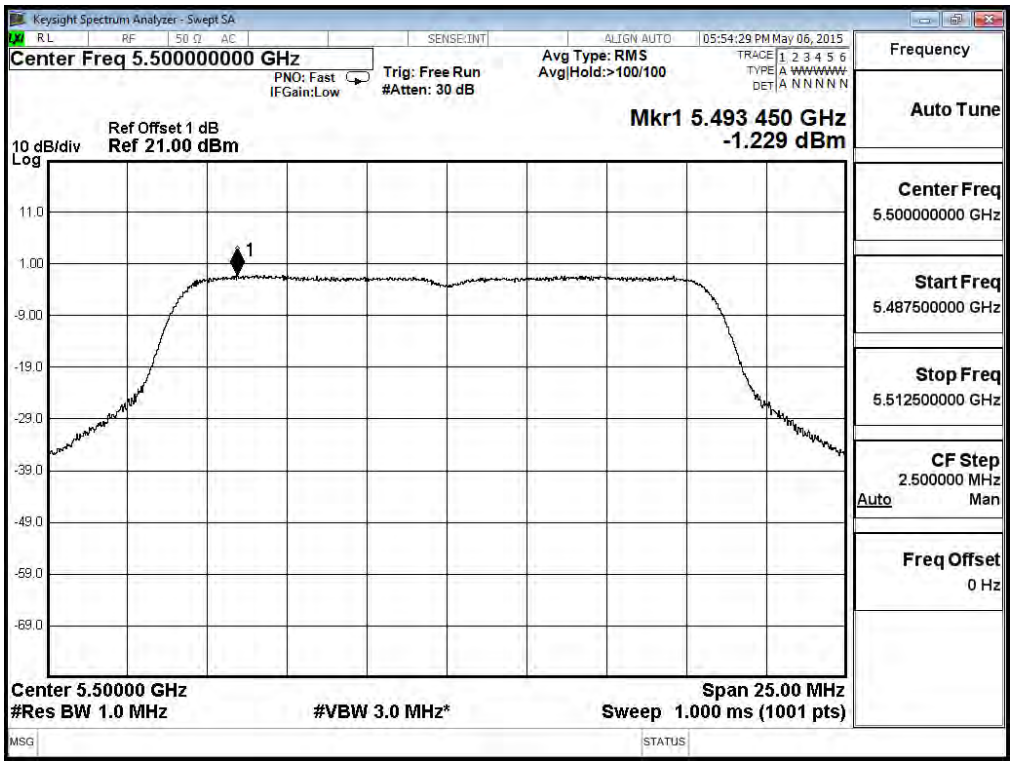
Channel 60: (Chain C)



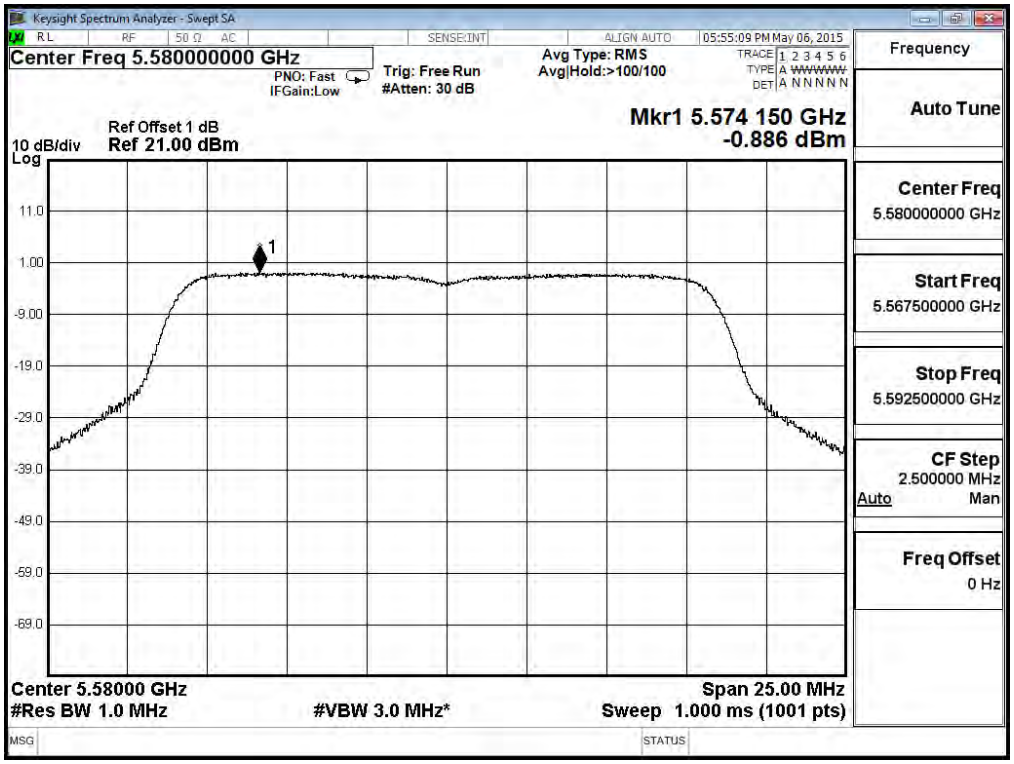
Channel 64: (Chain C)



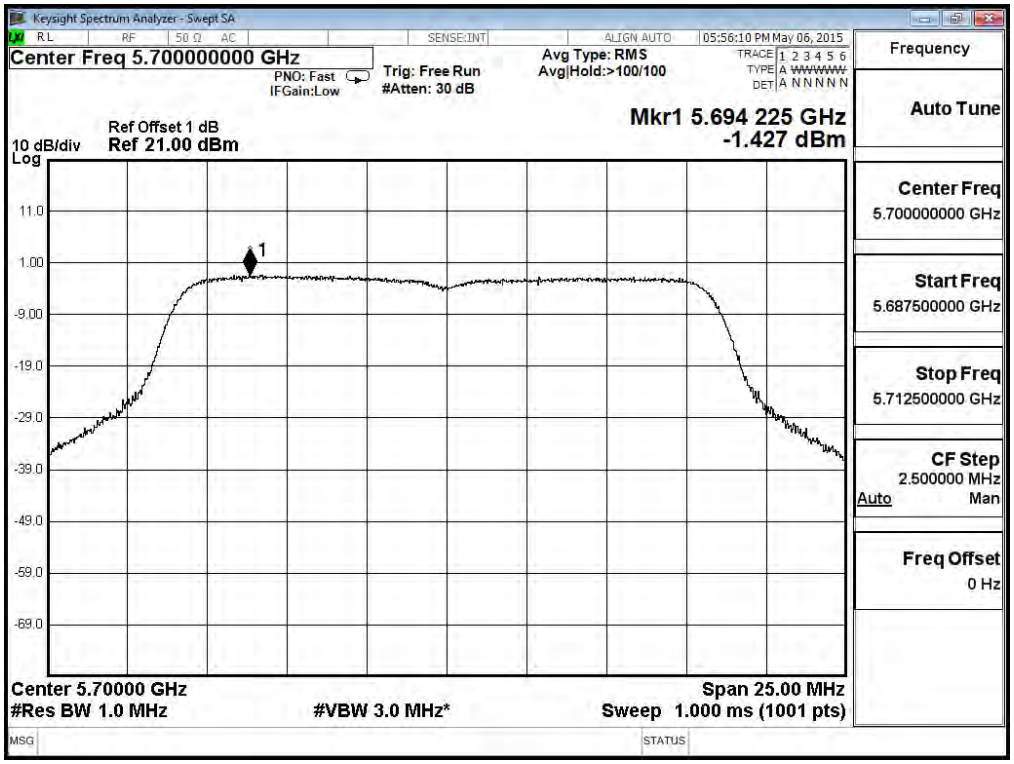
Channel 100: (Chain C)



Channel 116: (Chain C)



Channel 140: (Chain C)



Product : Access Point/Sensor
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter (802.11n-20BW 21.7Mbps) (Internal Antenna)

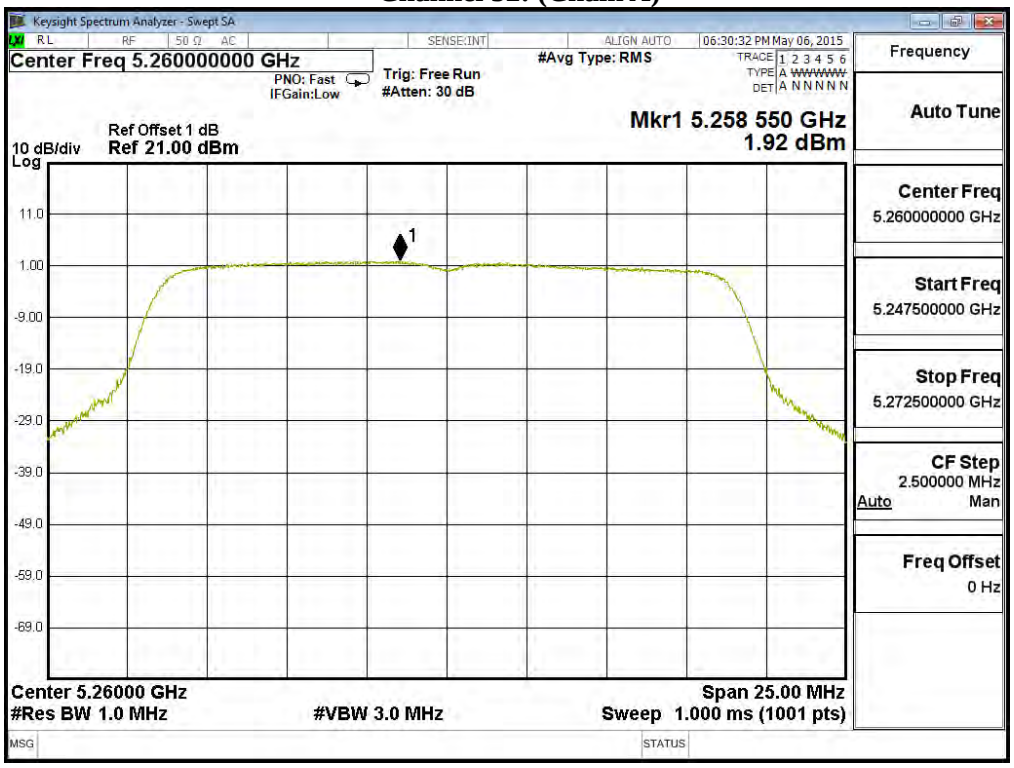
5250~5350MHz, 5470-5600 MHz and 5650-5725 MHz

Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)	Required Limit (dBm)	Result
52	5260	A	1.920	6.691	8.4	Pass
		B	1.180	5.951	8.4	Pass
		C	1.818	6.589	8.4	Pass
60	5300	A	1.750	6.521	8.4	Pass
		B	1.700	6.471	8.4	Pass
		C	2.047	6.818	8.4	Pass
64	5320	A	0.480	5.251	8.4	Pass
		B	0.930	5.701	8.4	Pass
		C	1.830	6.601	8.4	Pass
100	5500	A	-1.280	3.491	5.9	Pass
		B	-1.810	2.961	5.9	Pass
		C	-1.702	3.069	5.9	Pass
116	5580	A	-1.810	2.961	5.9	Pass
		B	-1.350	3.421	5.9	Pass
		C	-1.075	3.696	5.9	Pass
140	5700	A	-1.560	3.211	5.9	Pass
		B	-1.230	3.541	5.9	Pass
		C	-2.180	2.591	5.9	Pass

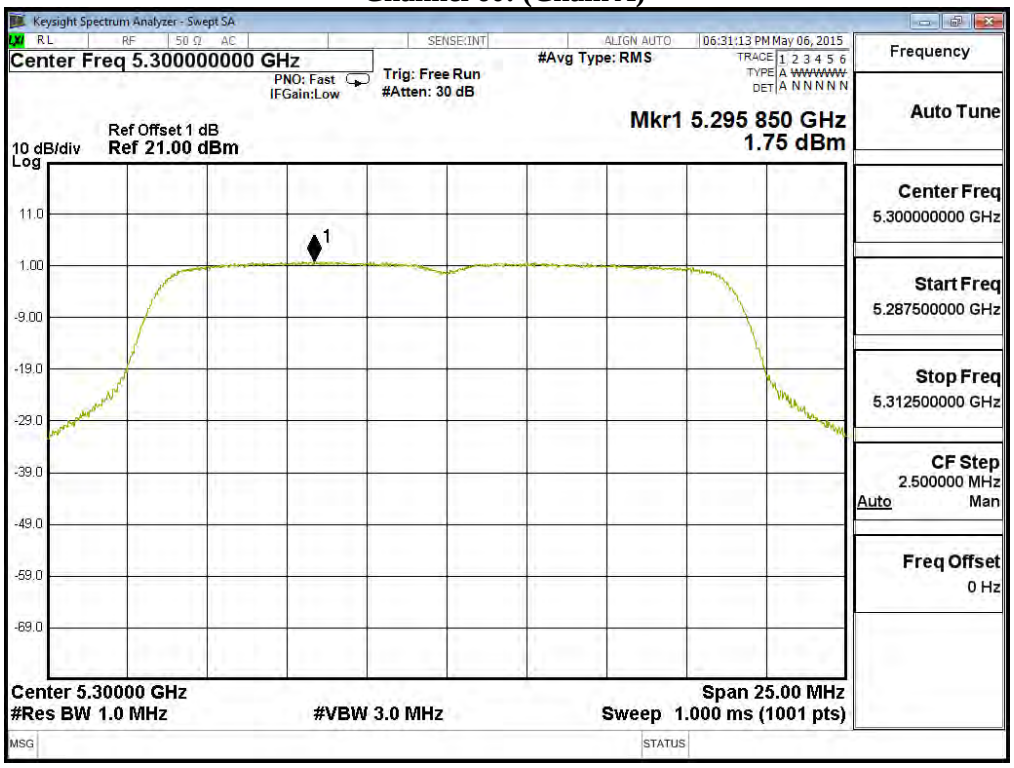
Note :

1. The quantity 10*log 3 (three antennas) is added to the spectrum peak value according to document 662911 D01.
2. The peak power spectral density shall be reduced by the amount in Db that the directional gain of the antenna exceeds 6 dBi.

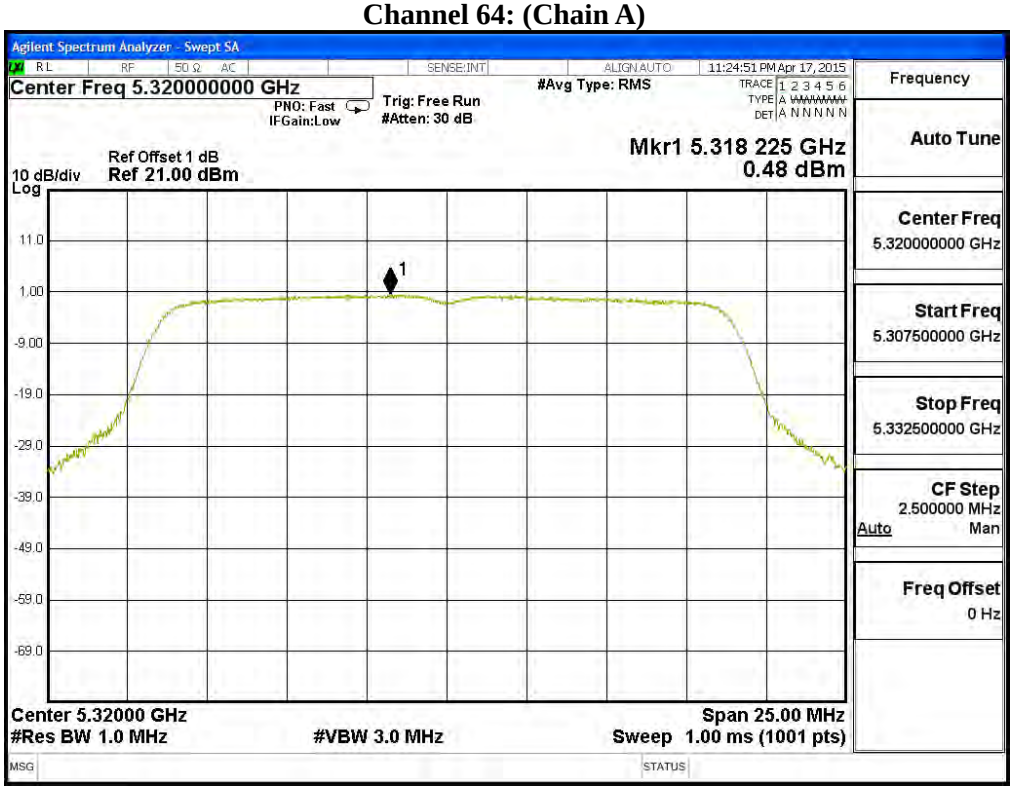
Channel 52: (Chain A)



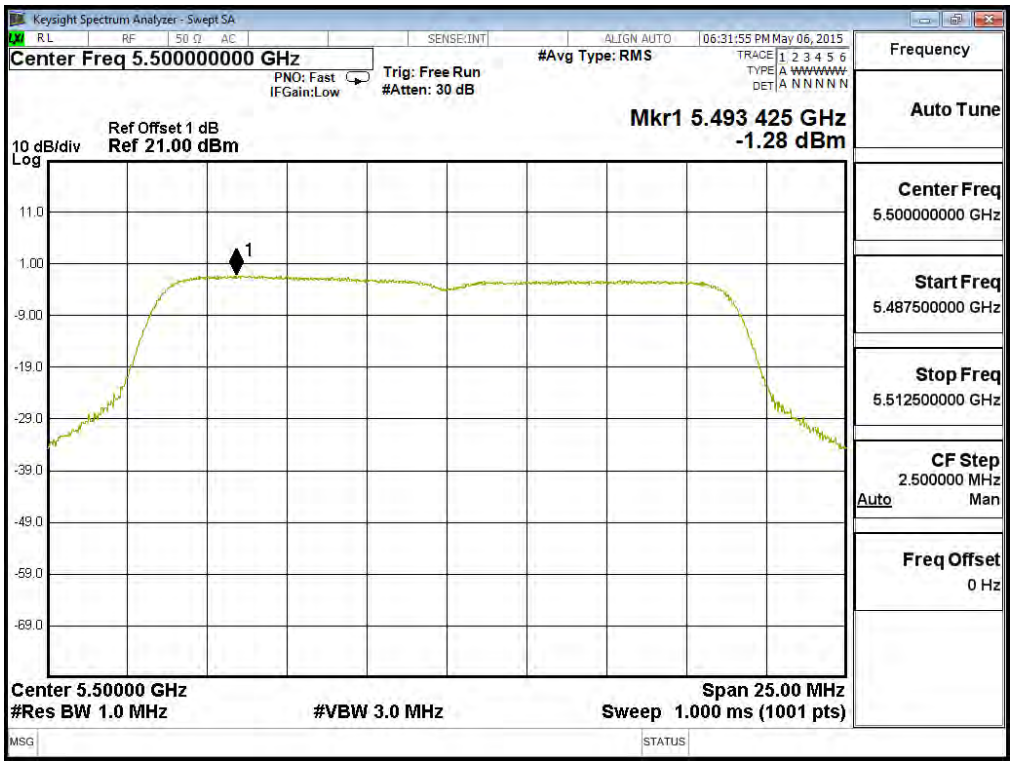
Channel 60: (Chain A)



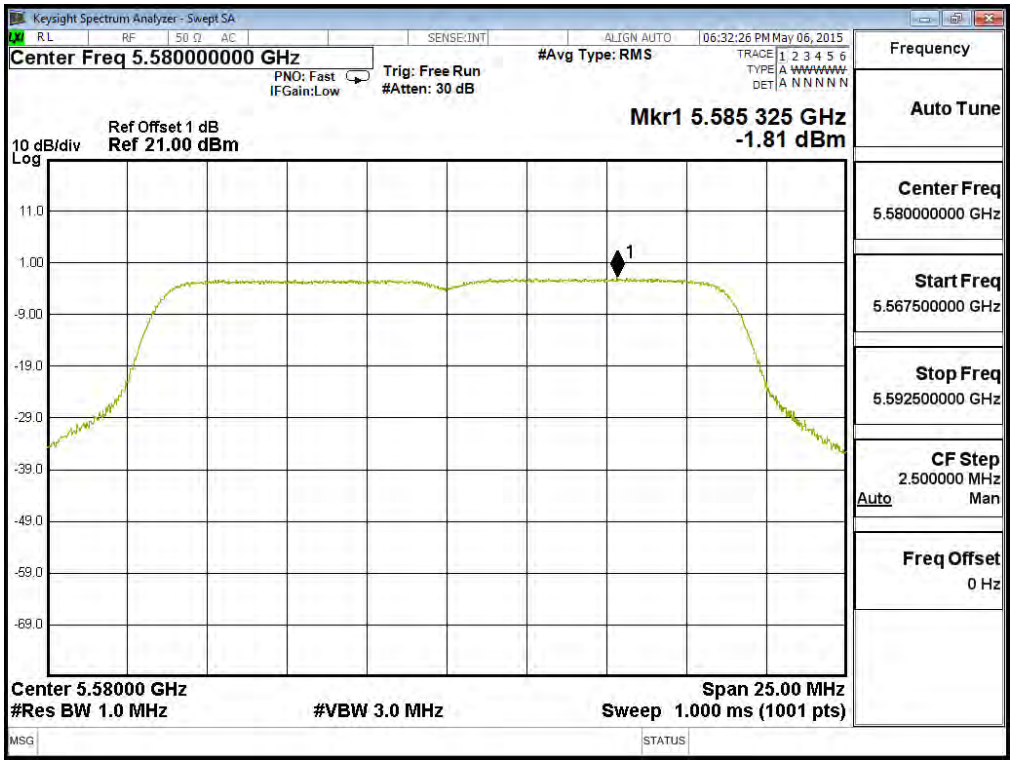
Channel 64: (Chain A)



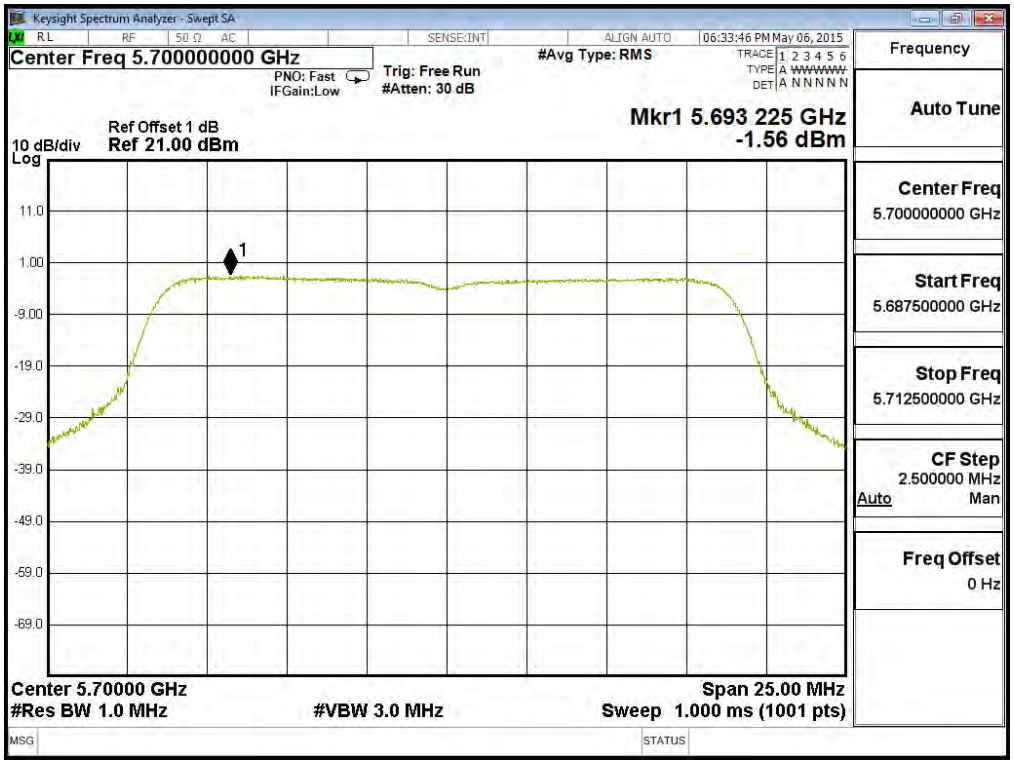
Channel 100: (Chain A)



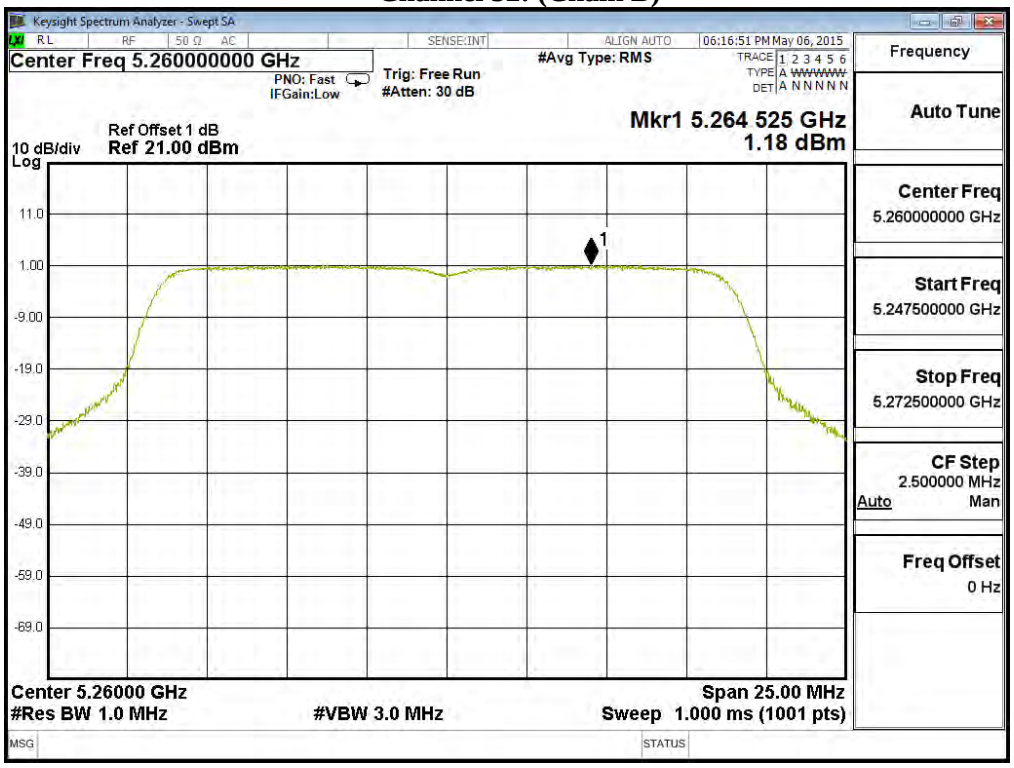
Channel 116: (Chain A)



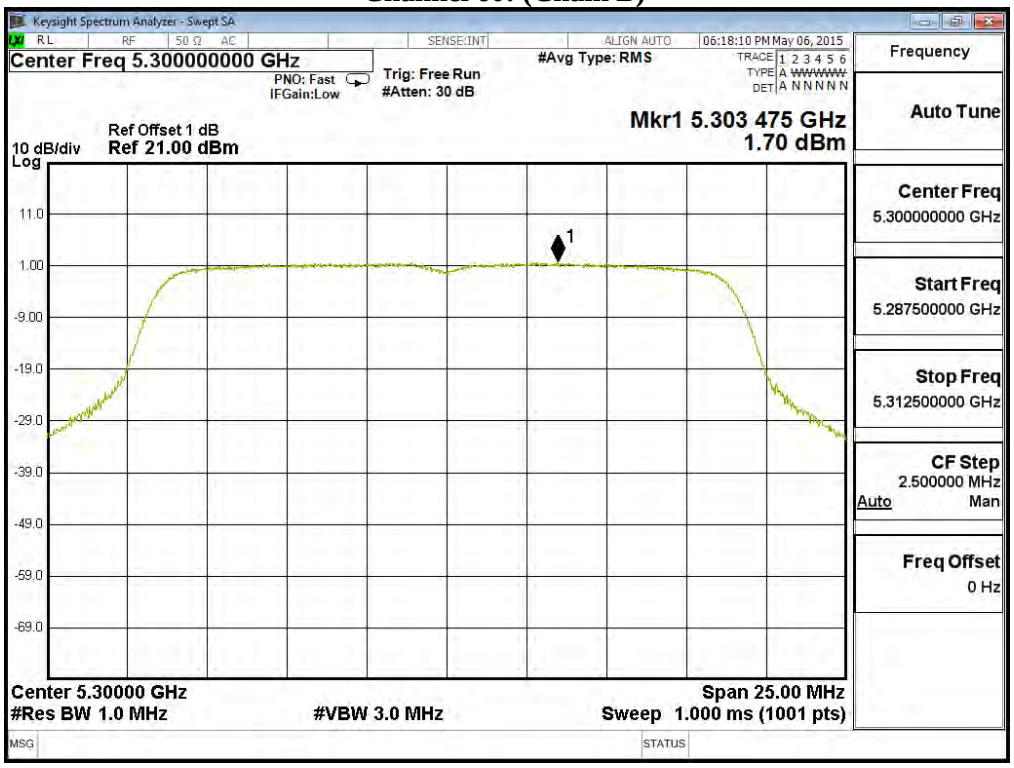
Channel 140: (Chain A)



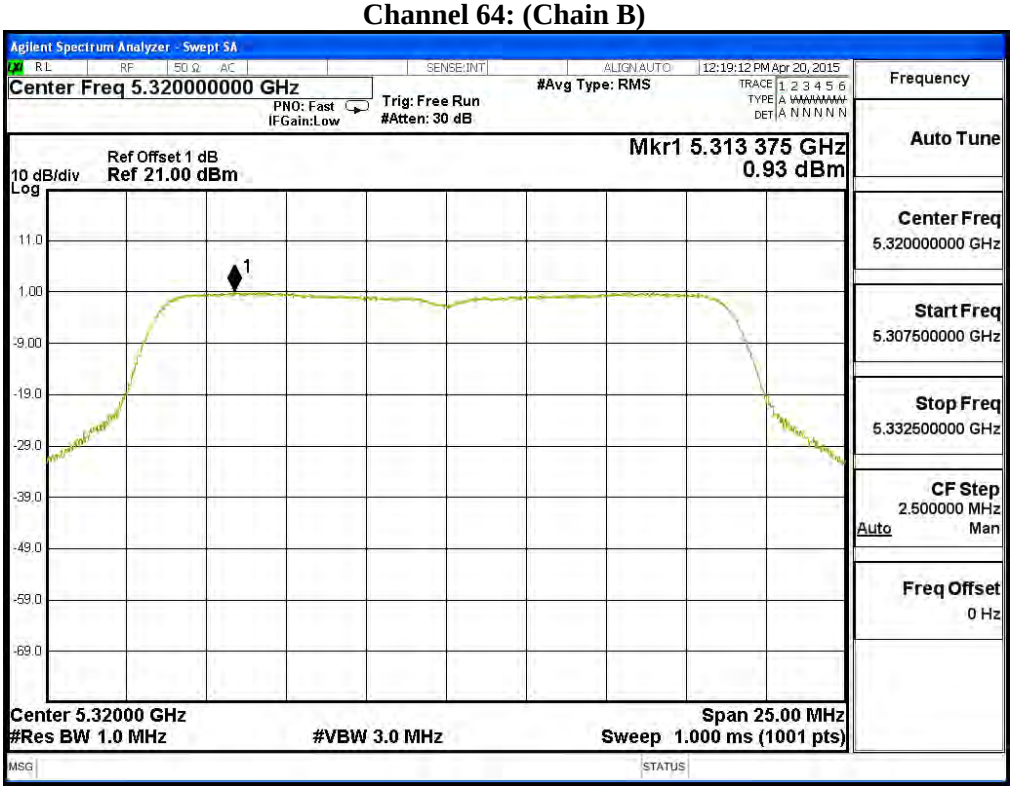
Channel 52: (Chain B)



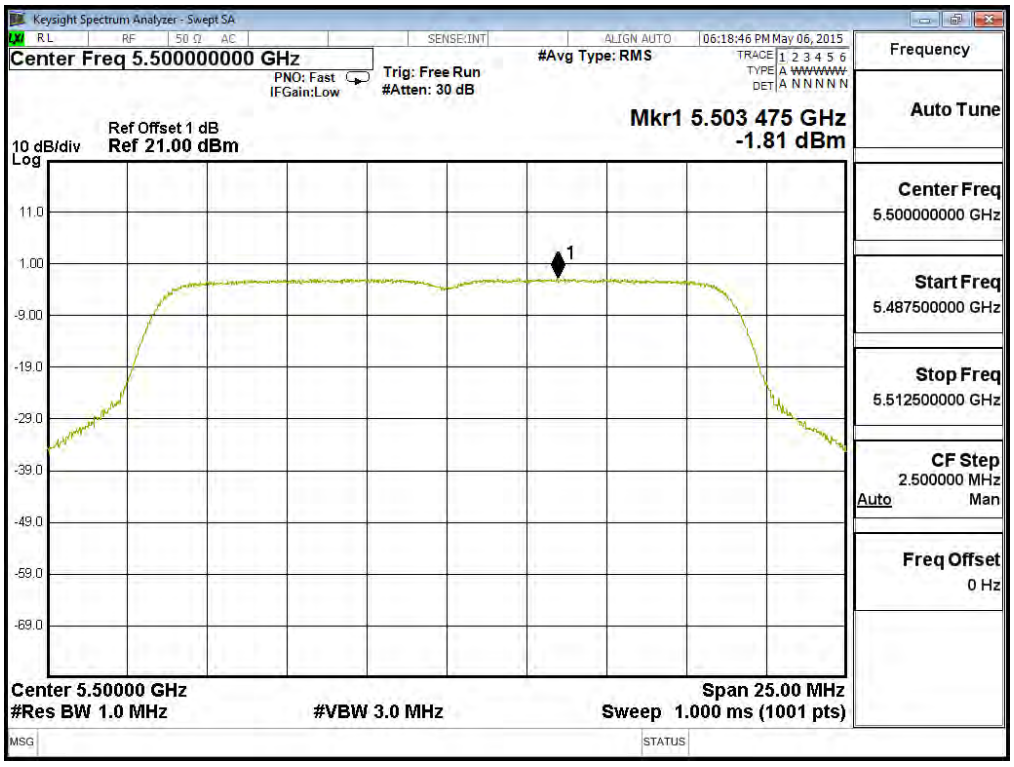
Channel 60: (Chain B)



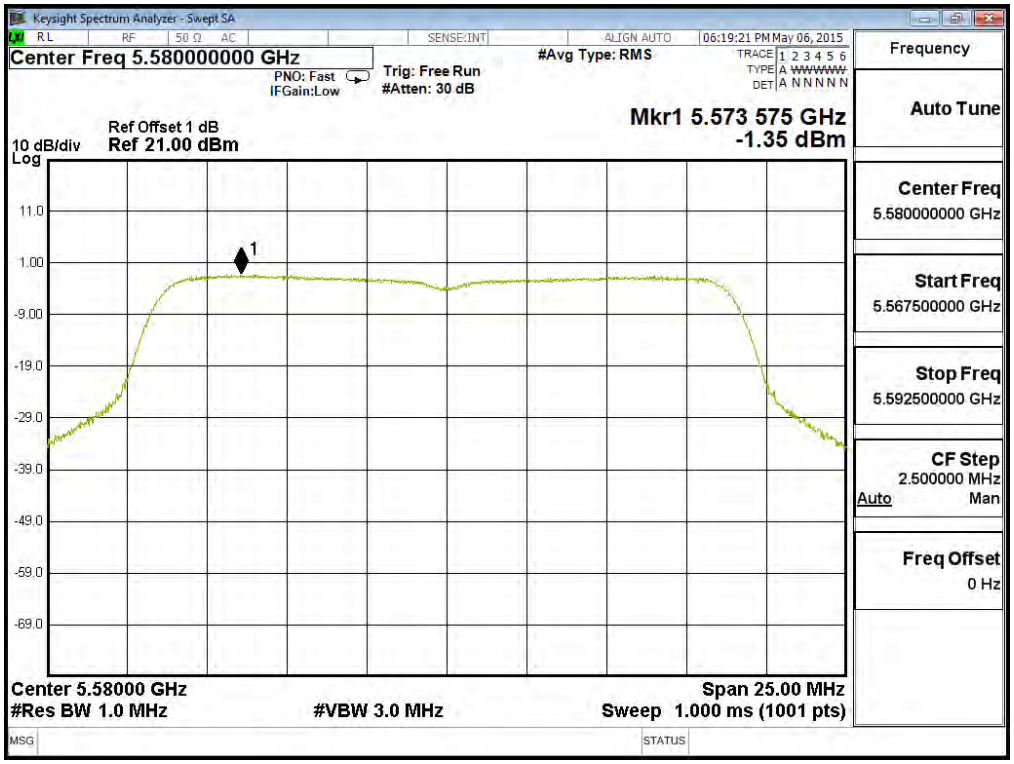
Channel 64: (Chain B)



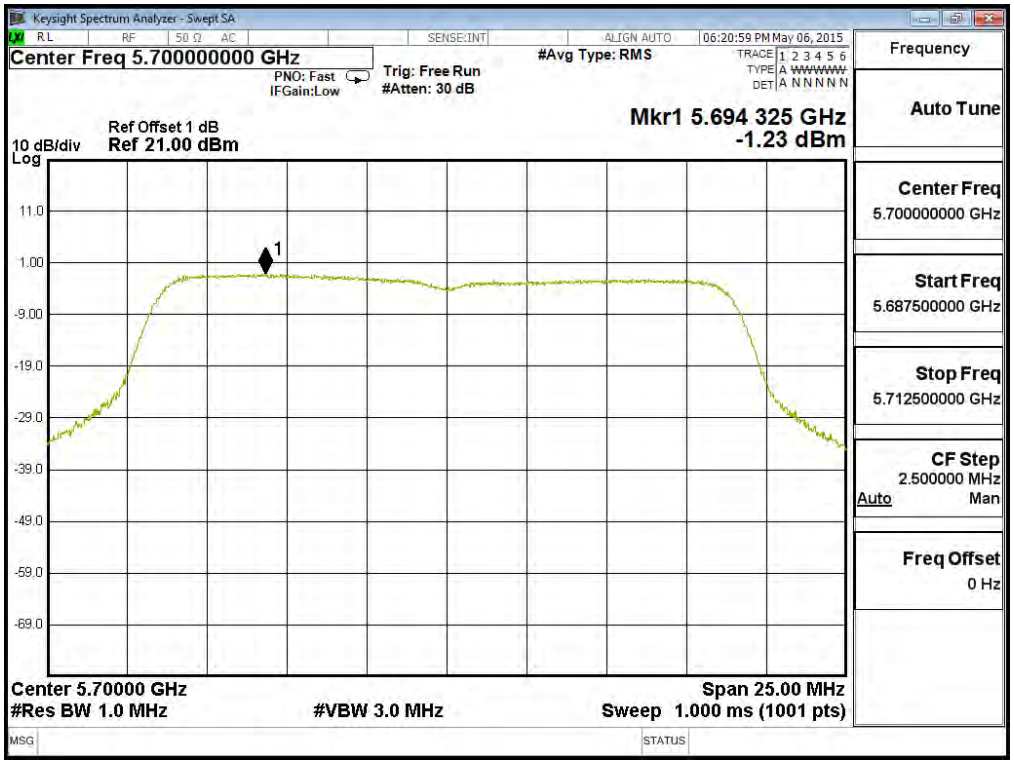
Channel 100: (Chain B)



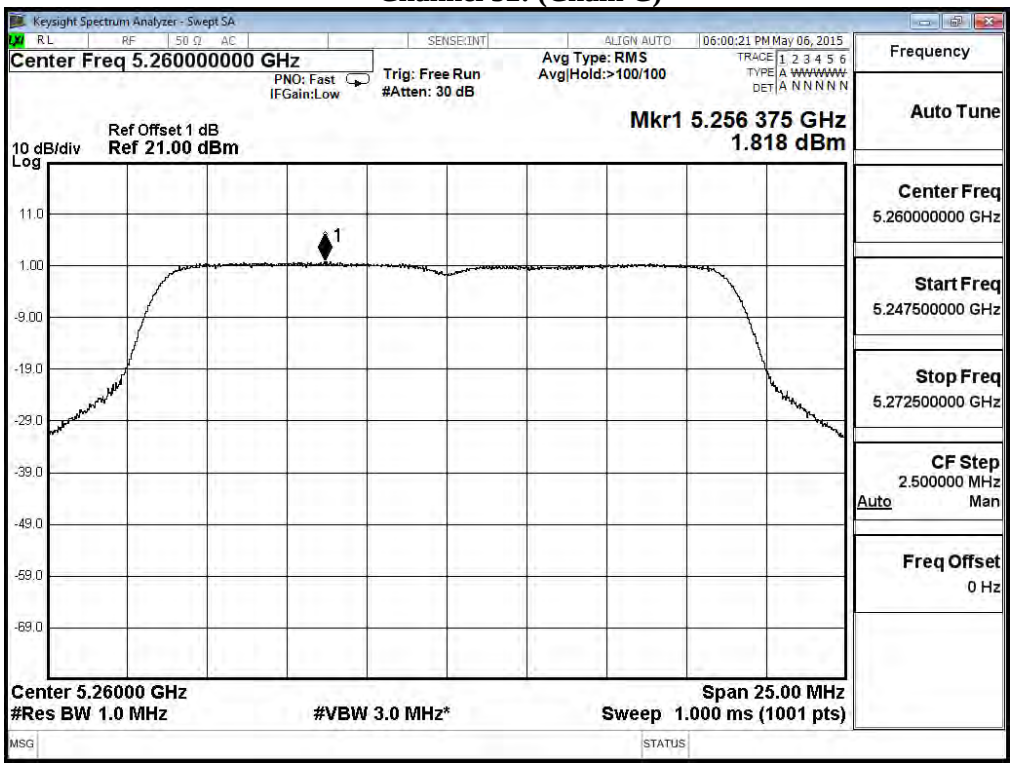
Channel 116: (Chain B)



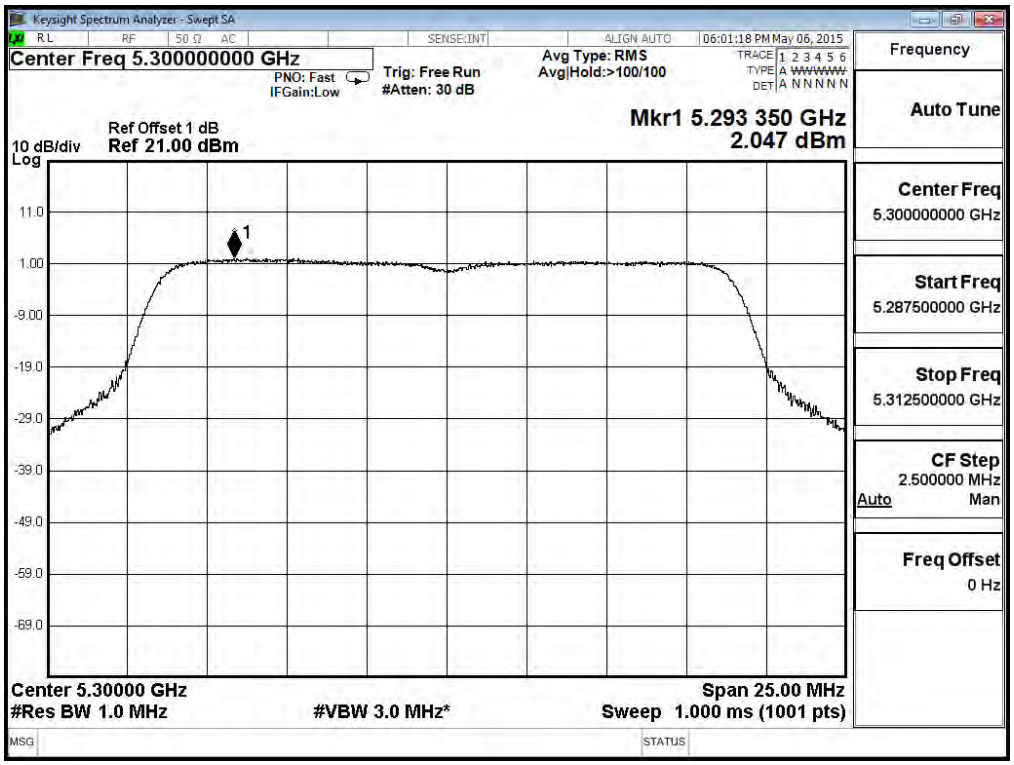
Channel 140: (Chain B)



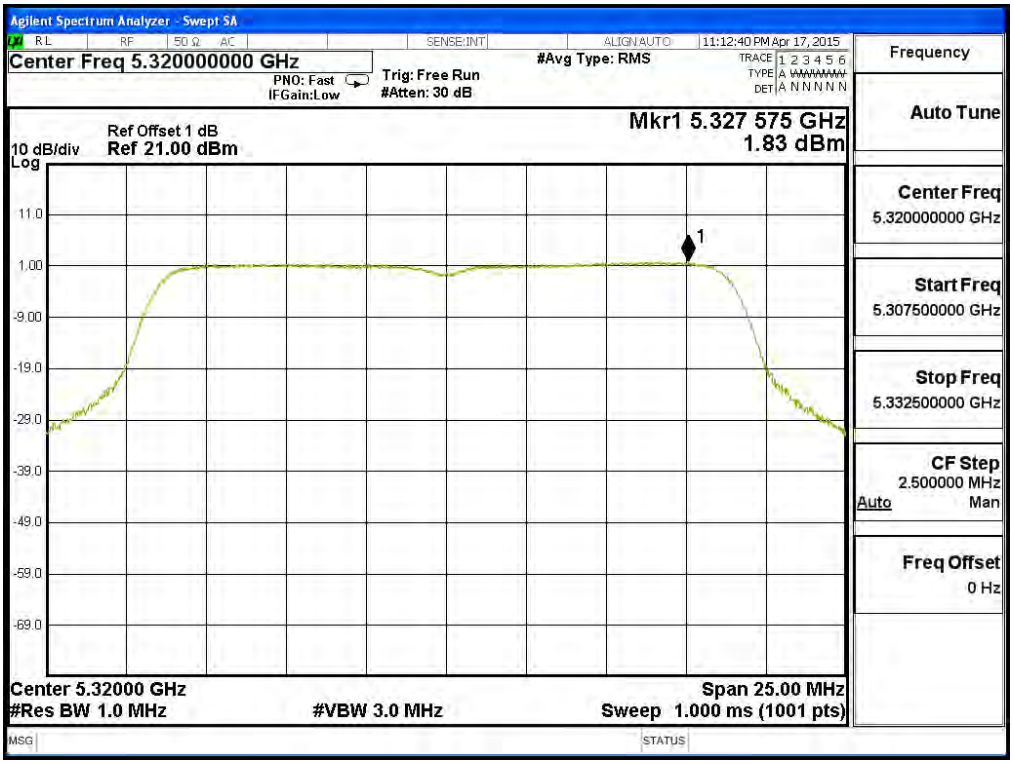
Channel 52: (Chain C)



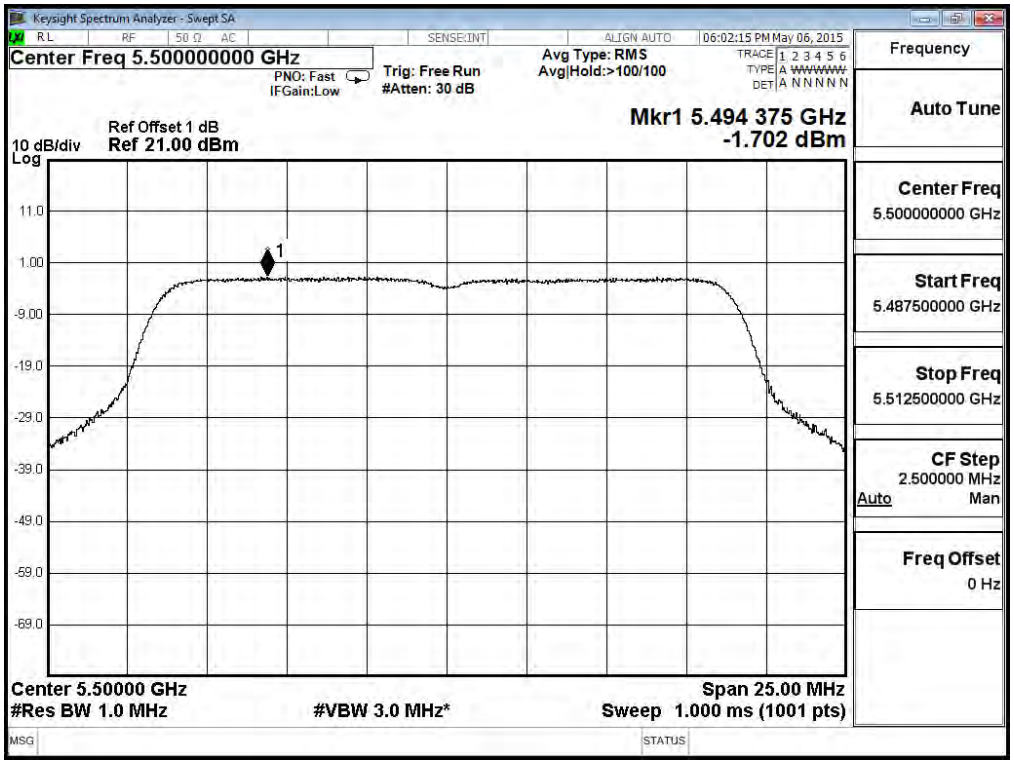
Channel 60: (Chain C)



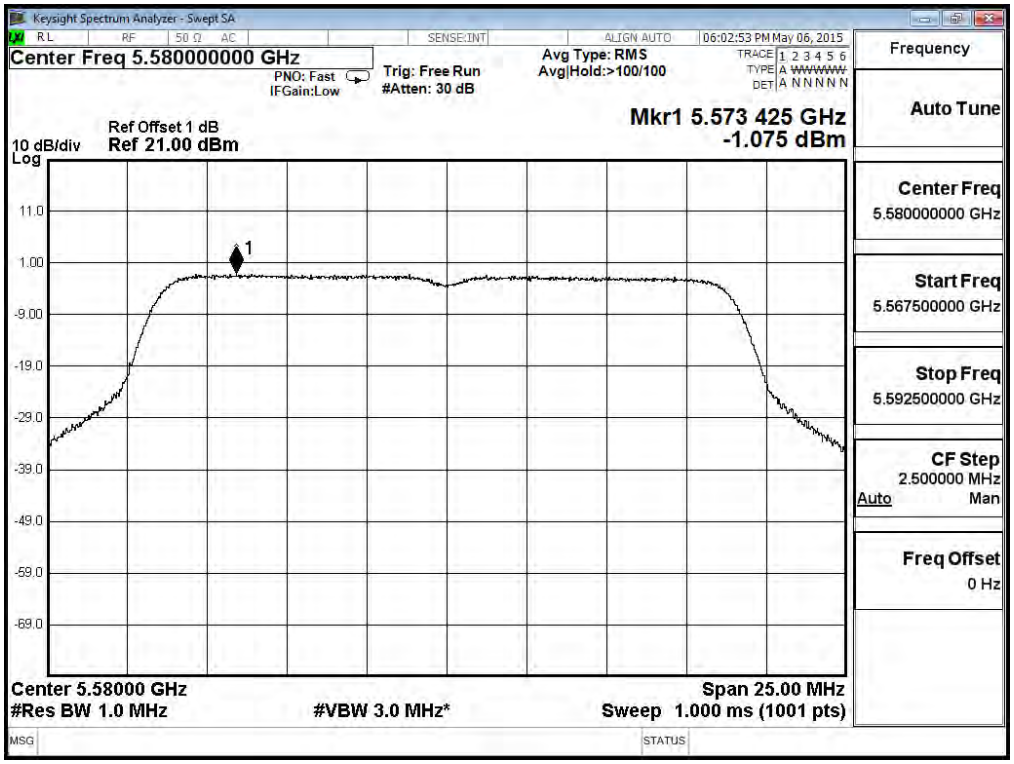
Channel 64: (Chain C)



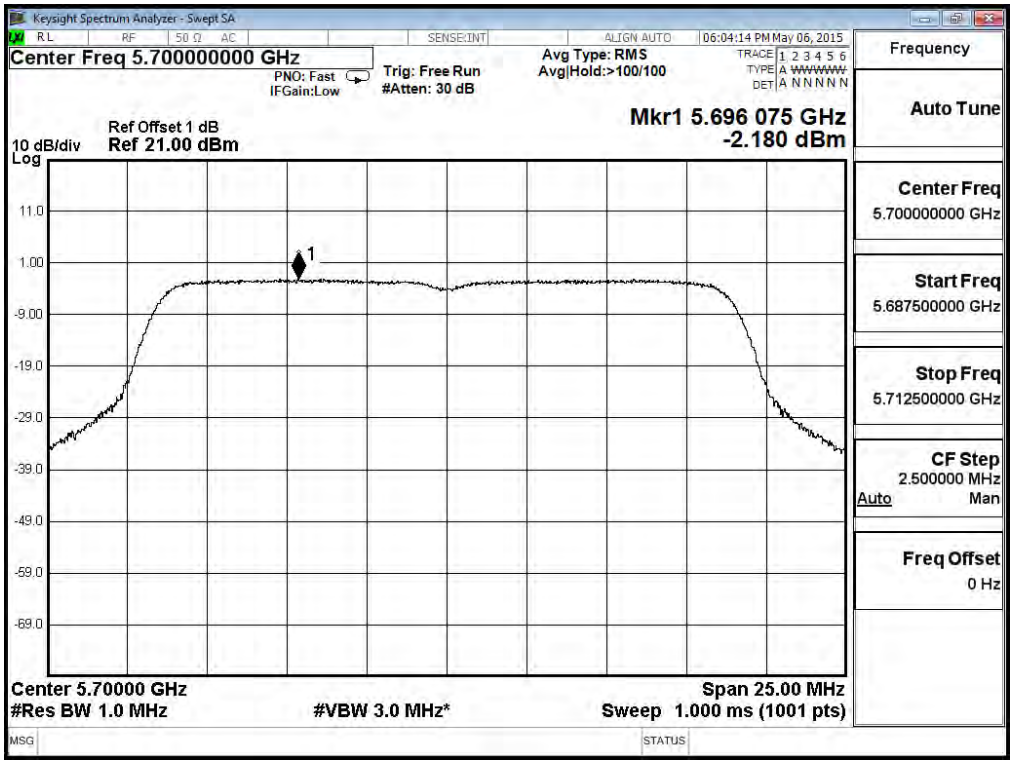
Channel 100: (Chain C)



Channel 116: (Chain C)



Channel 140: (Chain C)



Product : Access Point/Sensor
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 3: Transmitter (802.11n-40BW 45Mbps) (Internal Antenna)

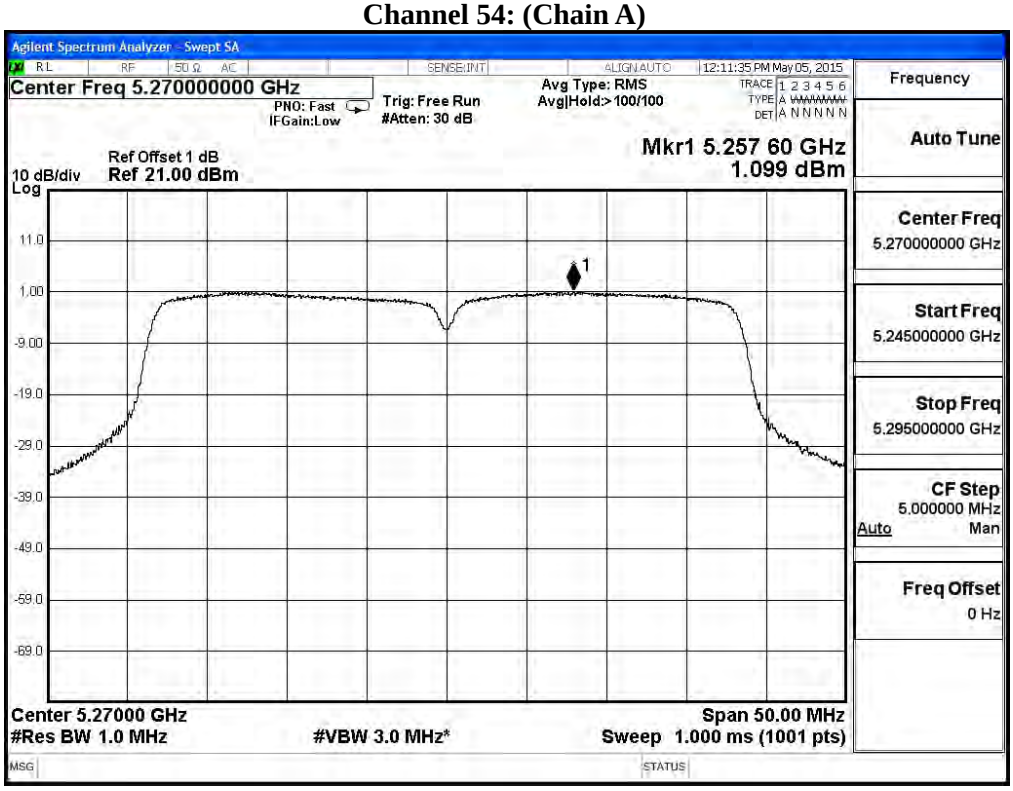
5250~5350MHz, 5470-5600 MHz and 5650-5725 MHz

Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)	Required Limit (dBm)	Result
54	5270	A	1.099	5.870	8.4	Pass
		B	0.997	5.768	8.4	Pass
		C	0.578	5.349	8.4	Pass
62	5310	A	-8.198	-3.427	8.4	Pass
		B	-8.751	-3.980	8.4	Pass
		C	-8.651	-3.880	8.4	Pass
102	5510	A	-4.232	0.539	5.9	Pass
		B	-4.197	0.574	5.9	Pass
		C	-4.617	0.154	5.9	Pass
110	5550	A	-0.610	4.161	5.9	Pass
		B	-1.030	3.741	5.9	Pass
		C	-0.650	4.121	5.9	Pass
134	5670	A	-1.520	3.251	5.9	Pass
		B	-1.860	2.911	5.9	Pass
		C	-0.900	3.871	5.9	Pass

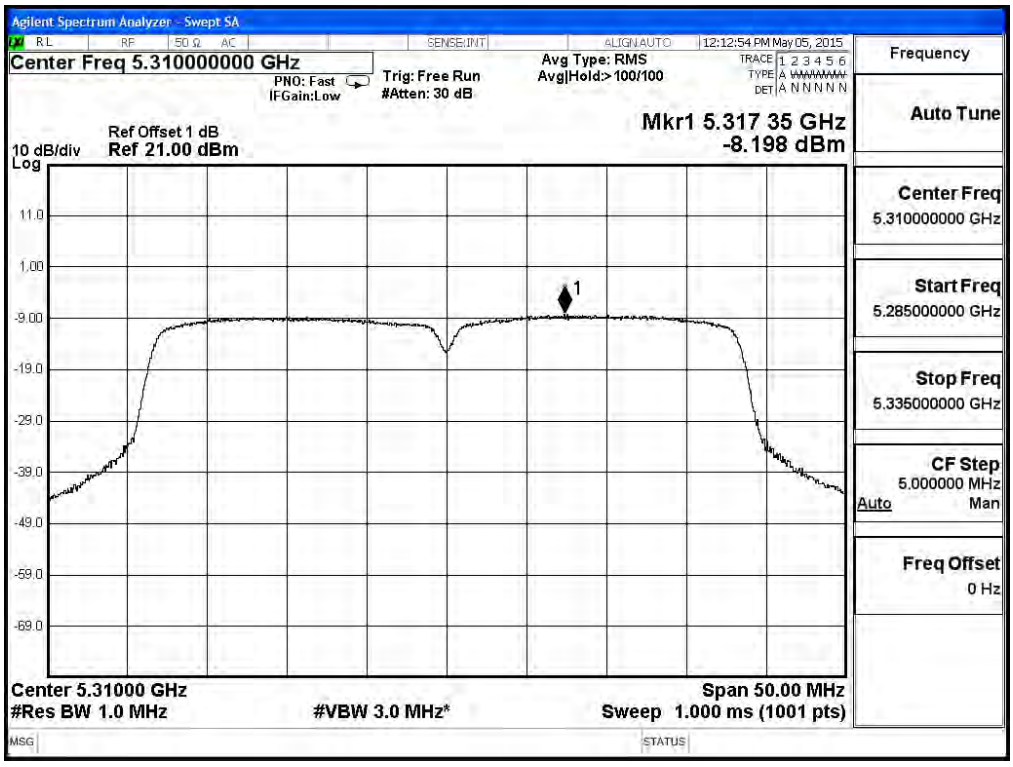
Note :

1. The quantity 10*log 3 (three antennas) is added to the spectrum peak value according to document 662911 D01.
2. The peak power spectral density shall be reduced by the amount in Db that the directional gain of the antenna exceeds 6 dBi.

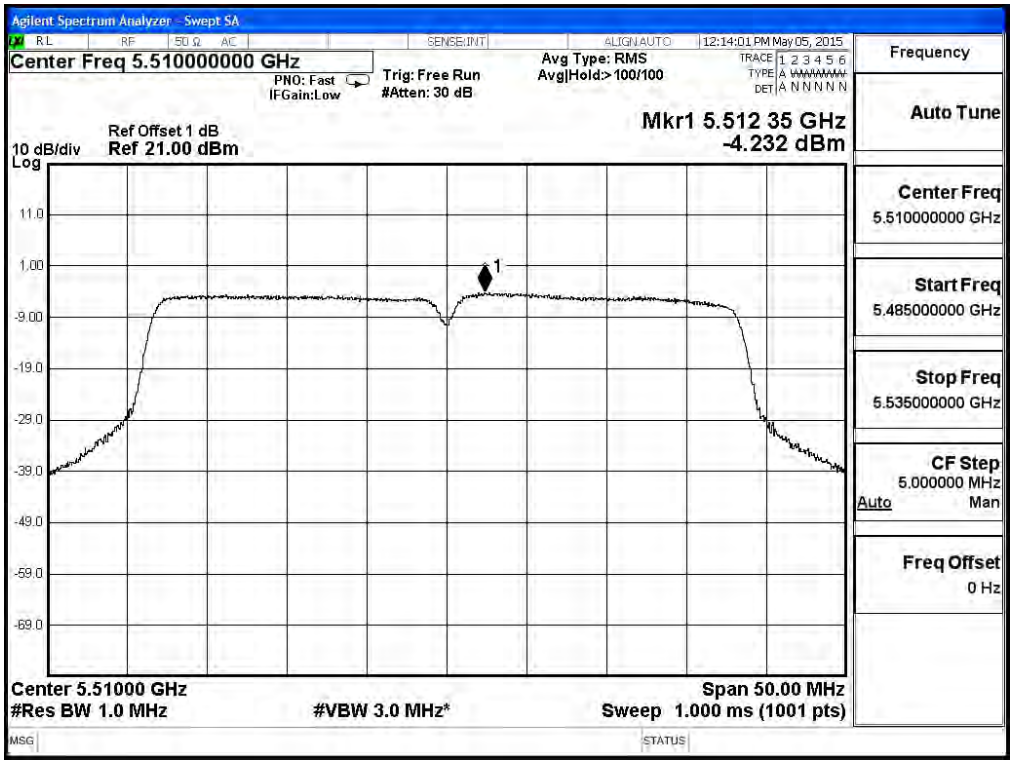
Channel 54: (Chain A)



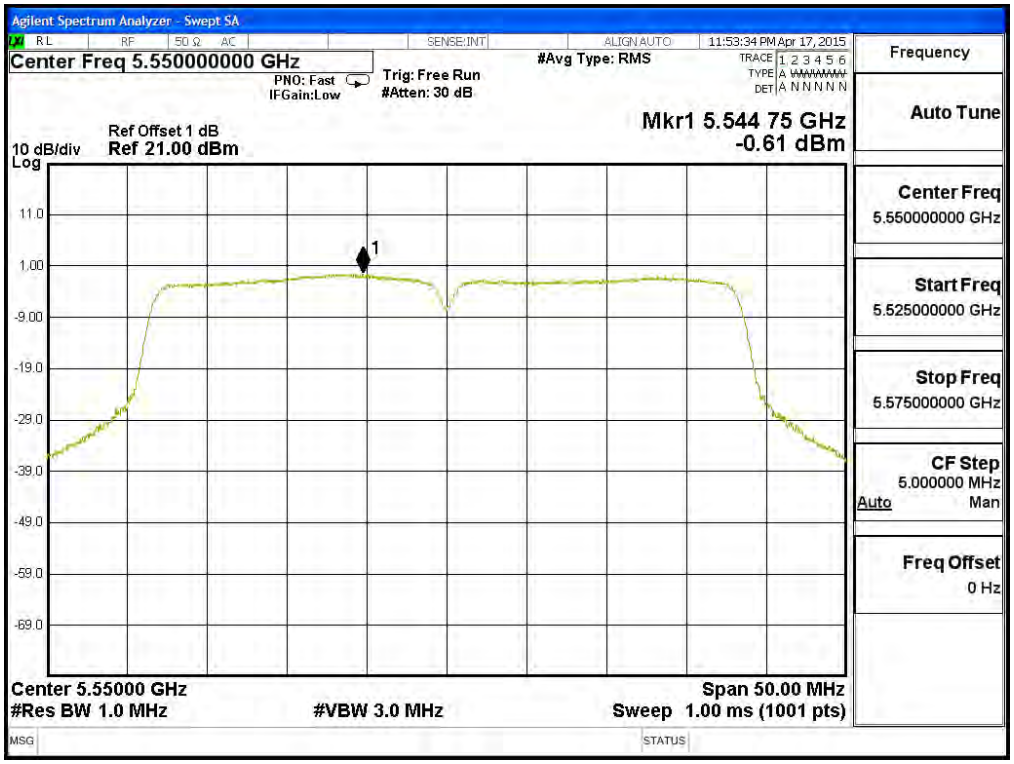
Channel 62: (Chain A)



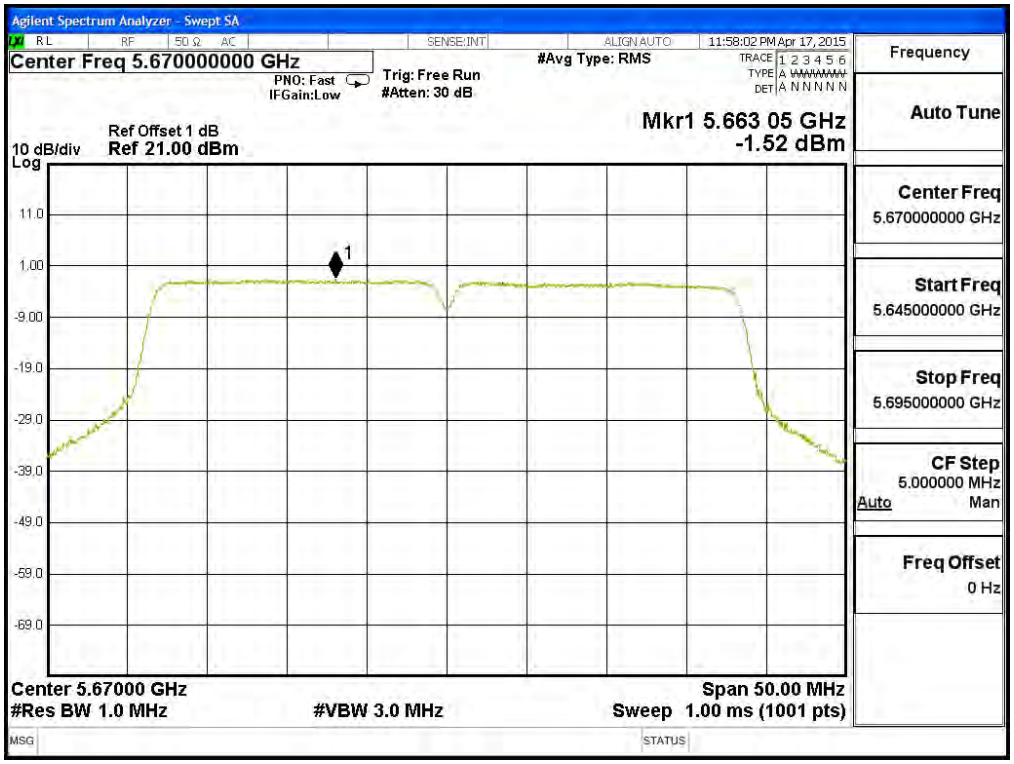
Channel 102: (Chain A)



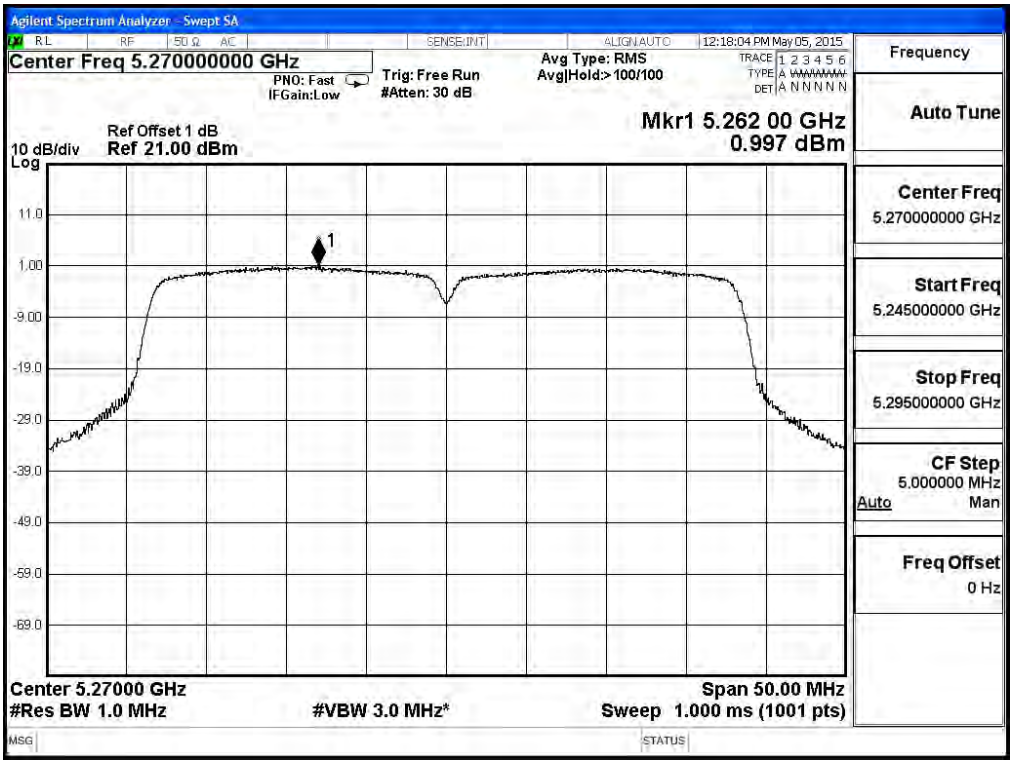
Channel 110: (Chain A)



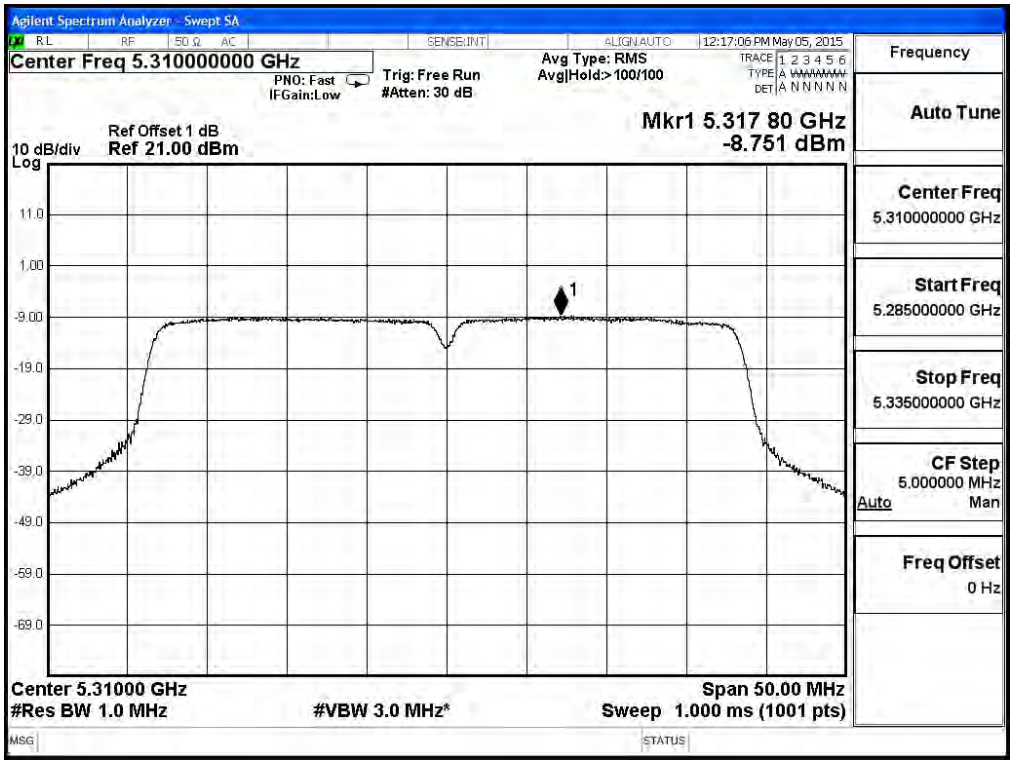
Channel 134: (Chain A)



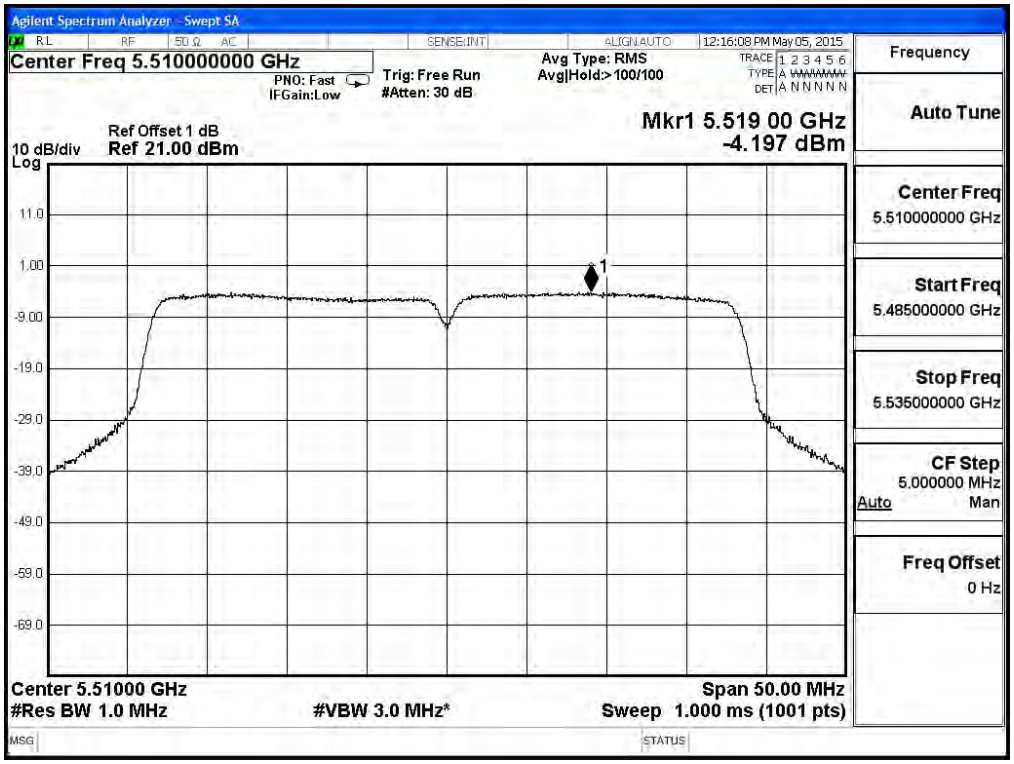
Channel 54: (Chain B)



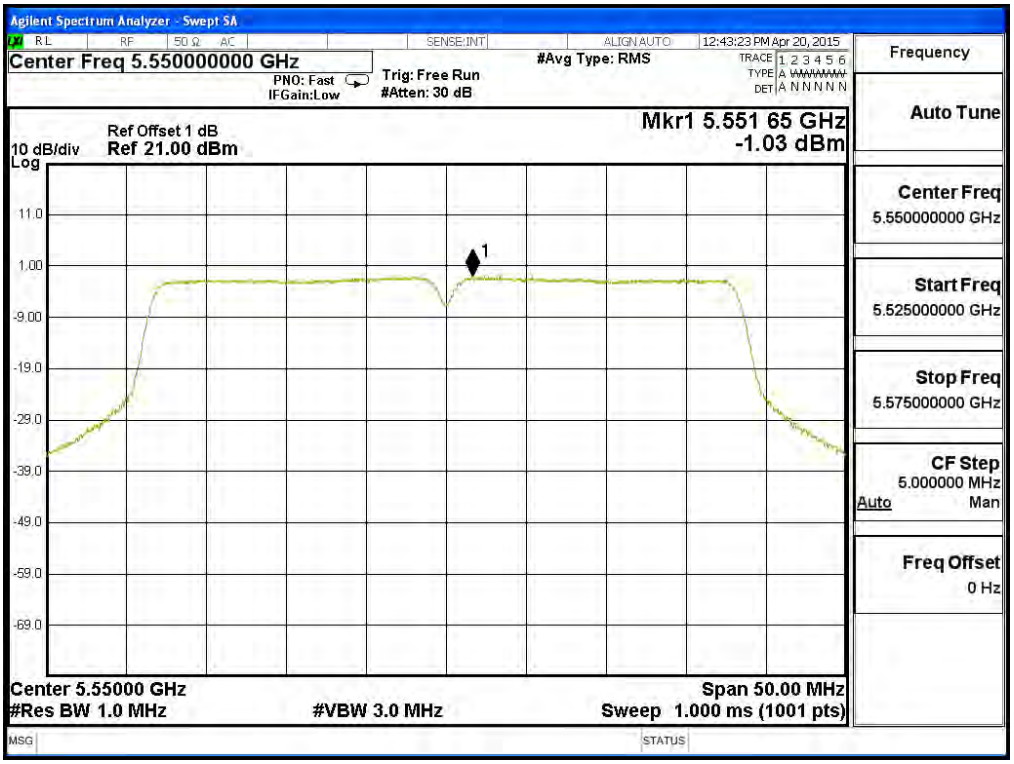
Channel 62: (Chain B)



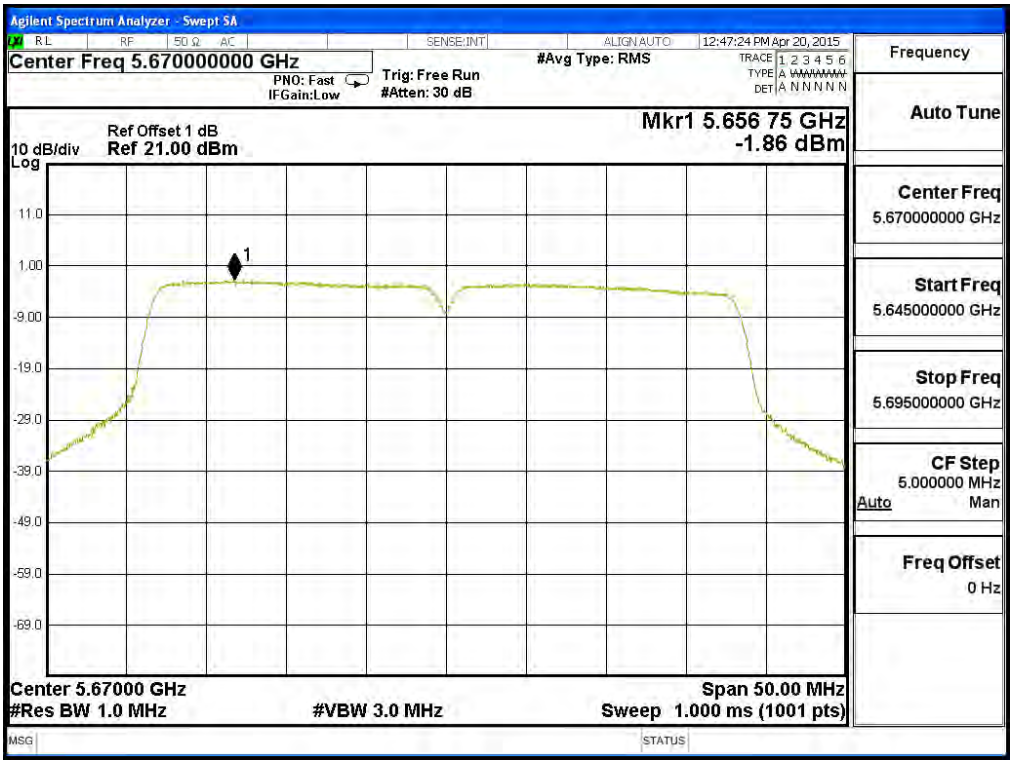
Channel 102: (Chain B)



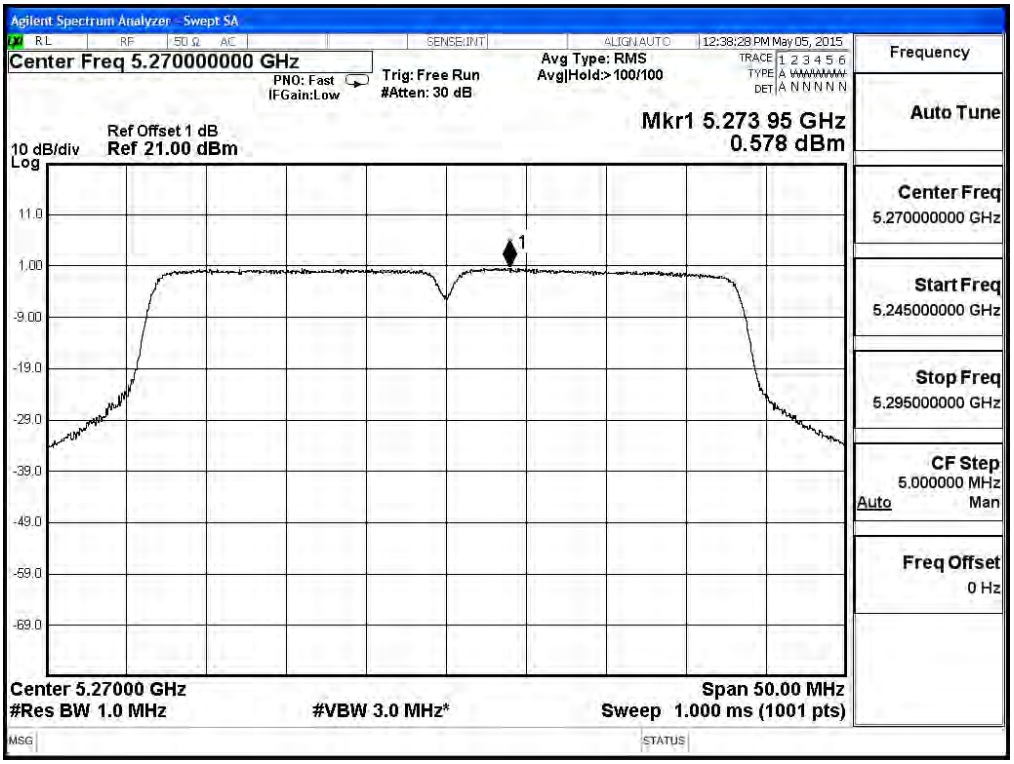
Channel 110: (Chain B)



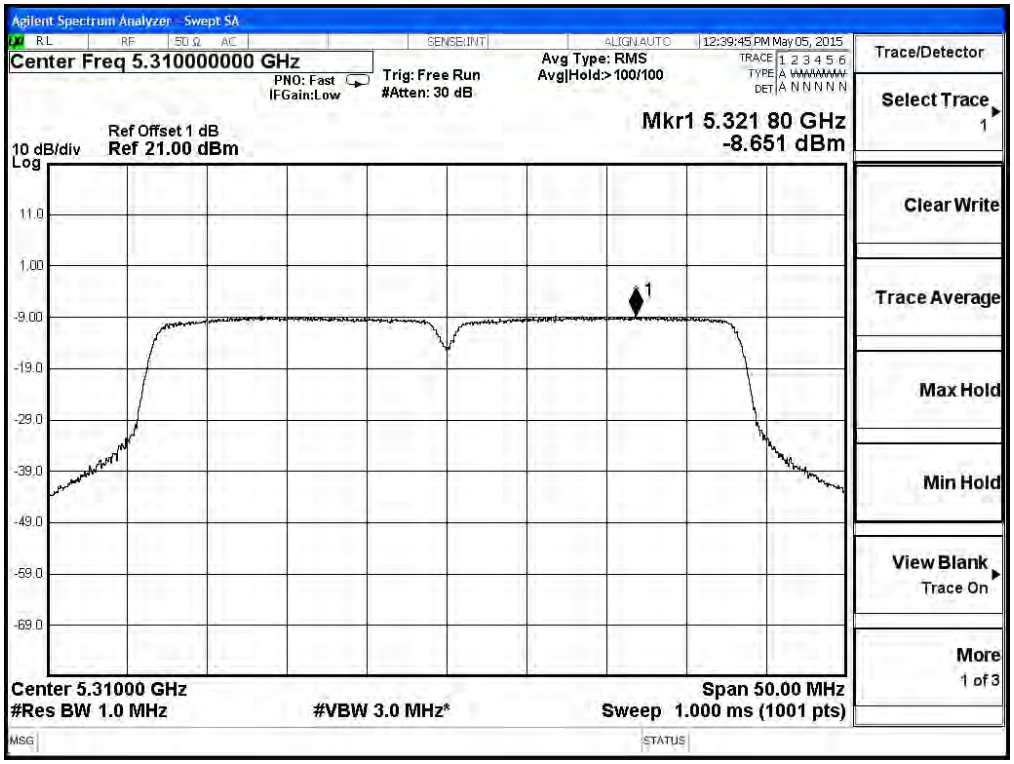
Channel 134: (Chain B)



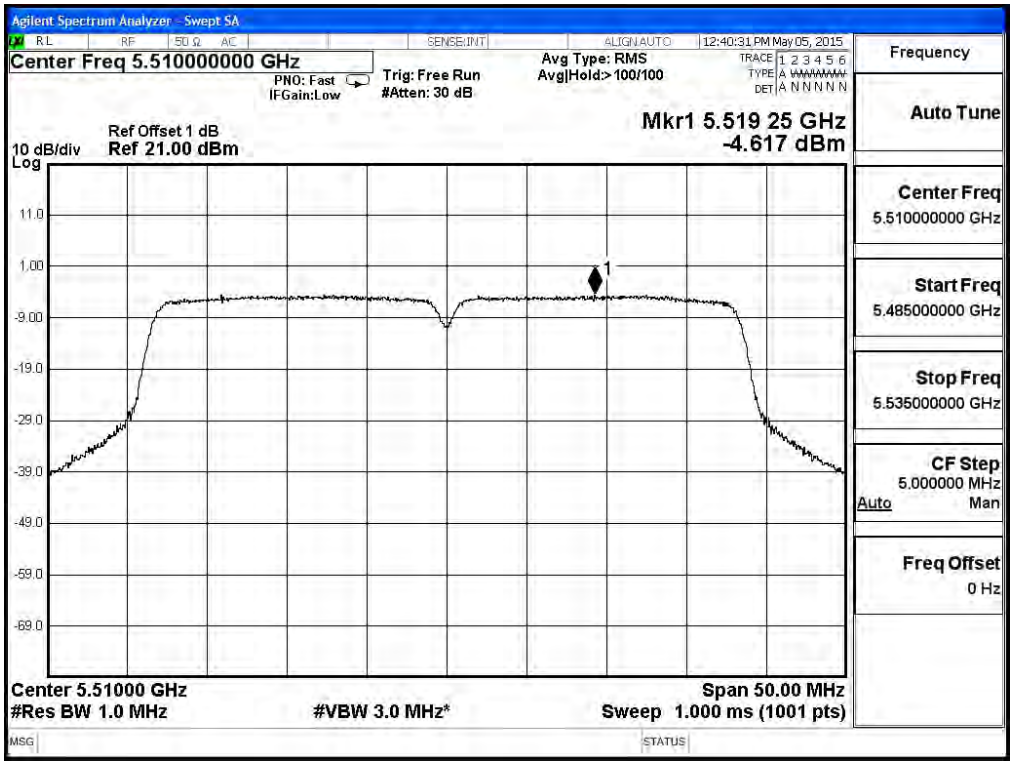
Channel 54 : (Chain C)



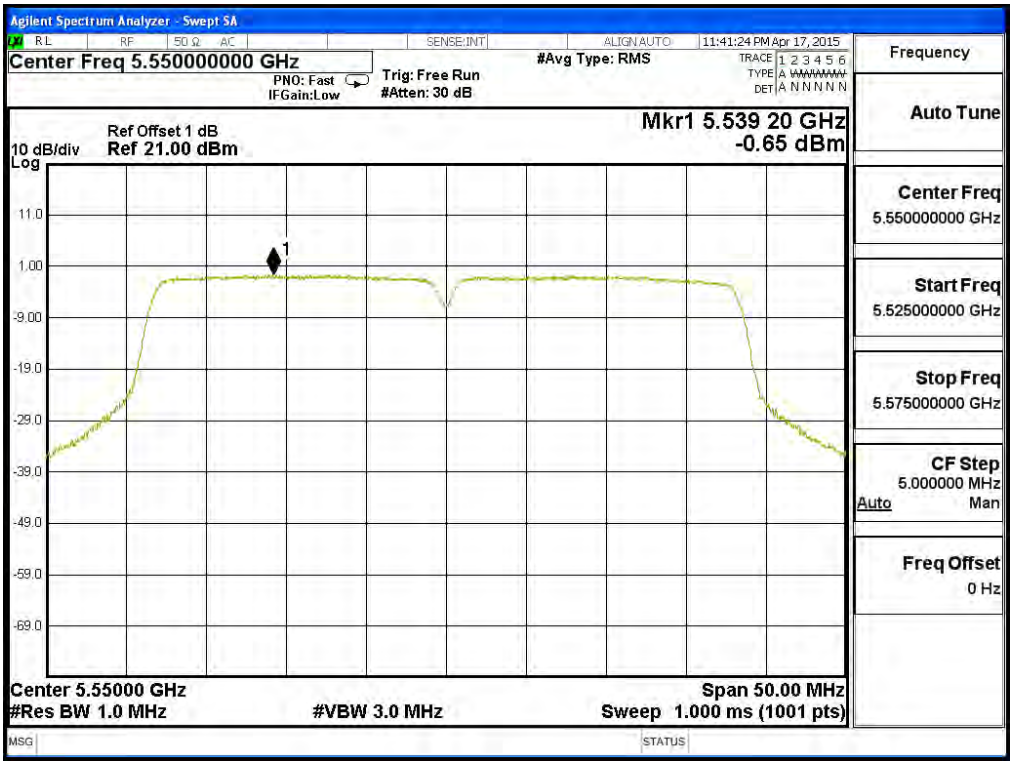
Channel 62 : (Chain C)



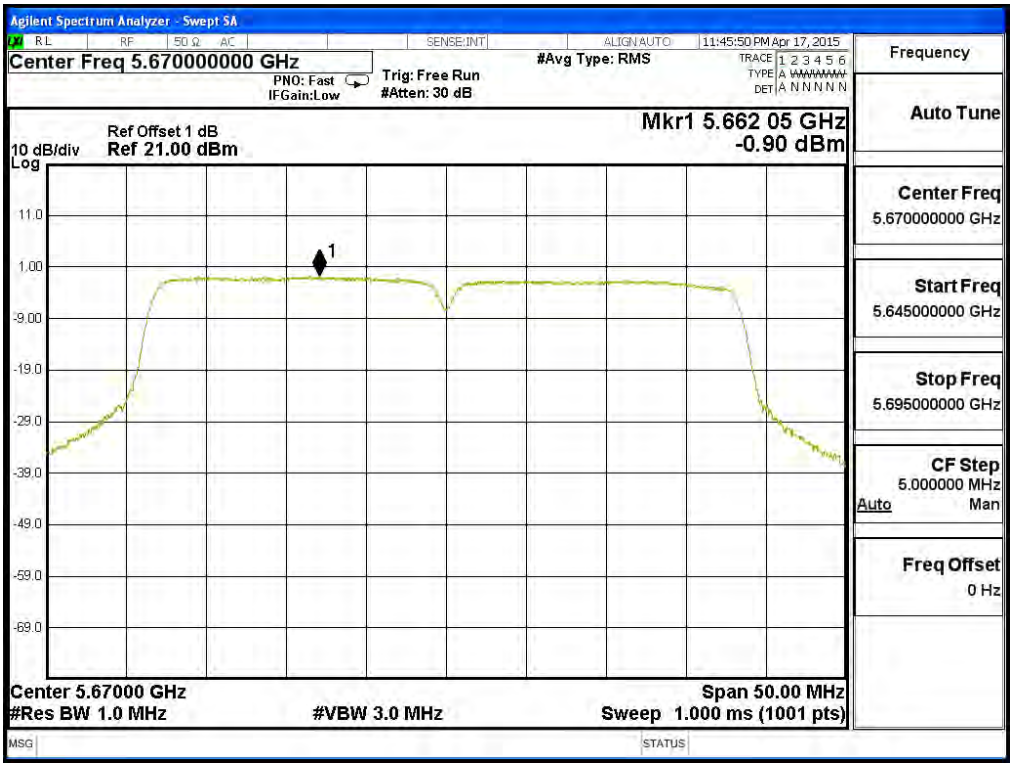
Channel 102: (Chain C)



Channel 110: (Chain C)



Channel 134: (Chain C)



Product : Access Point/Sensor
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11ac-20BW-21.7Mbps) (Internal Antenna)

Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PPSD/MHz	Required Limit (dBm)	Result
144	5720(Band3)	A	-0.842	3.929	5.9	Pass
	5720(Band3)	B	-1.170	3.601	5.9	Pass
	5720(Band3)	C	-1.371	3.400	5.9	Pass

Note :

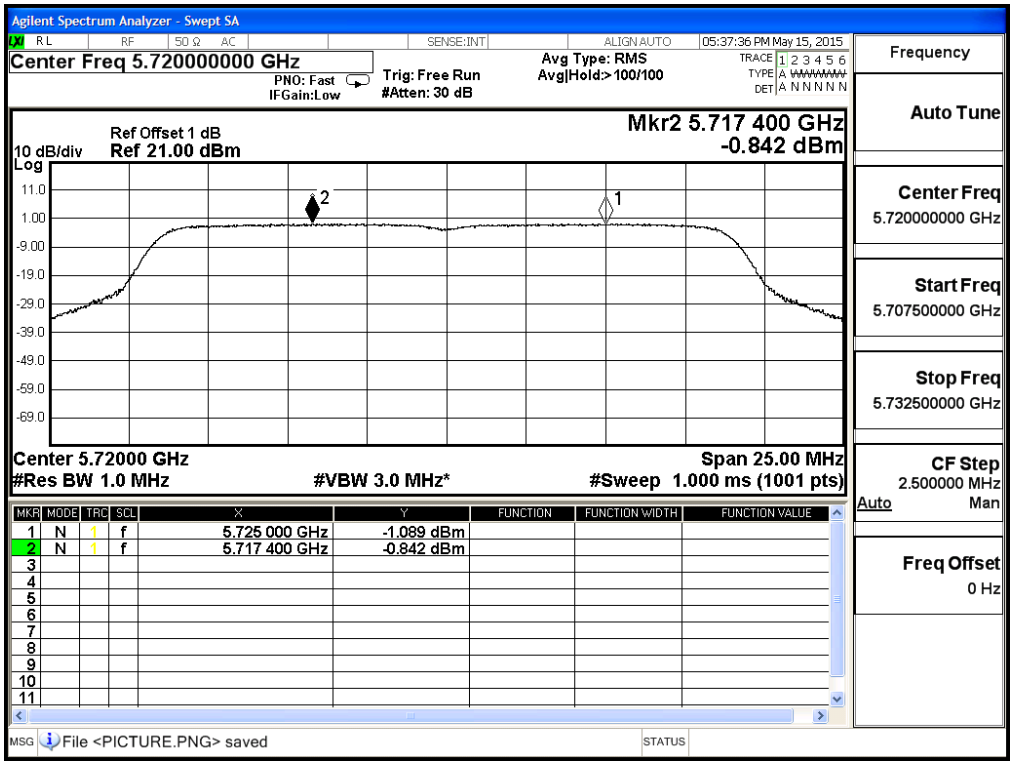
1. The quantity 10*log 3 (three antennas) is added to the spectrum peak value according to document 662911 D01.
2. The peak power spectral density shall be reduced by the amount in Db that the directional gain of the antenna exceeds 6 dBi.

Channel Number	Frequency (MHz)	Chain (dBm)	PPSD (dBm)	BWCF (Db)	Total PPSD (dBm)	Required Limit (dBm)	Result
155	5720(Band4)	A	-7.950	6.980	3.801	25.1	Pass
		B	-8.270	6.980	3.481	25.1	Pass
		C	-8.500	6.980	3.251	25.1	Pass

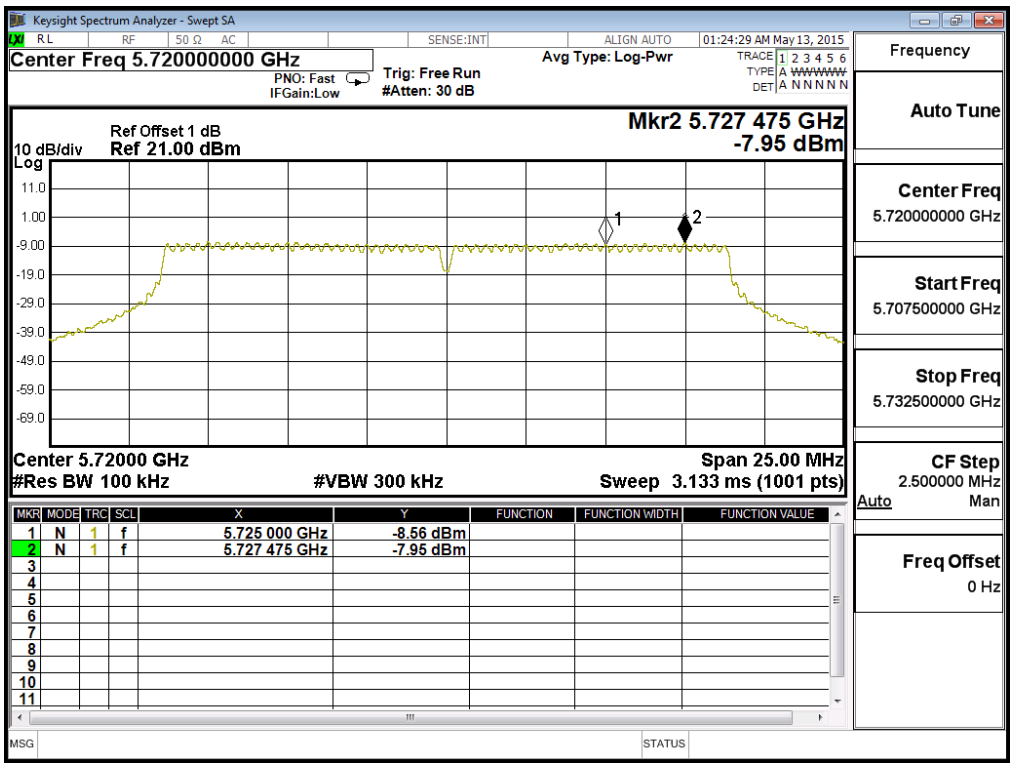
Note :

1. The quantity 10*log 3 (three antennas) is added to the spectrum peak value according to document 662911 D01.
2. The peak power spectral density shall be reduced by the amount in Db that the directional gain of the antenna exceeds 6 dBi.

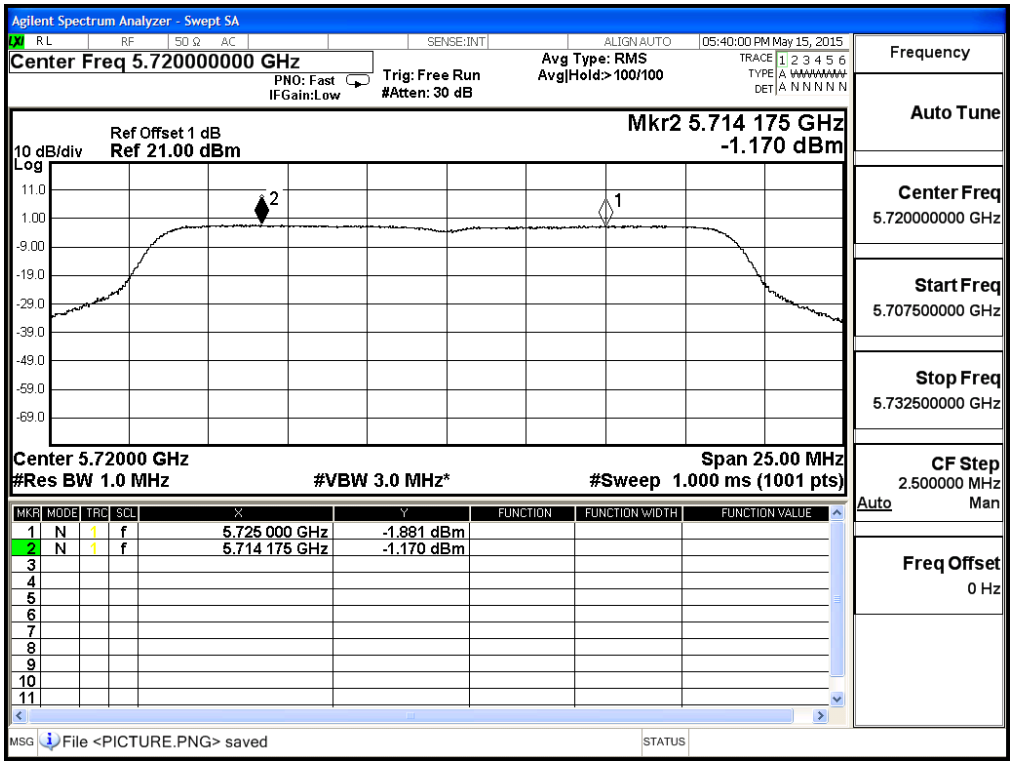
Channel 144: (Chain A)



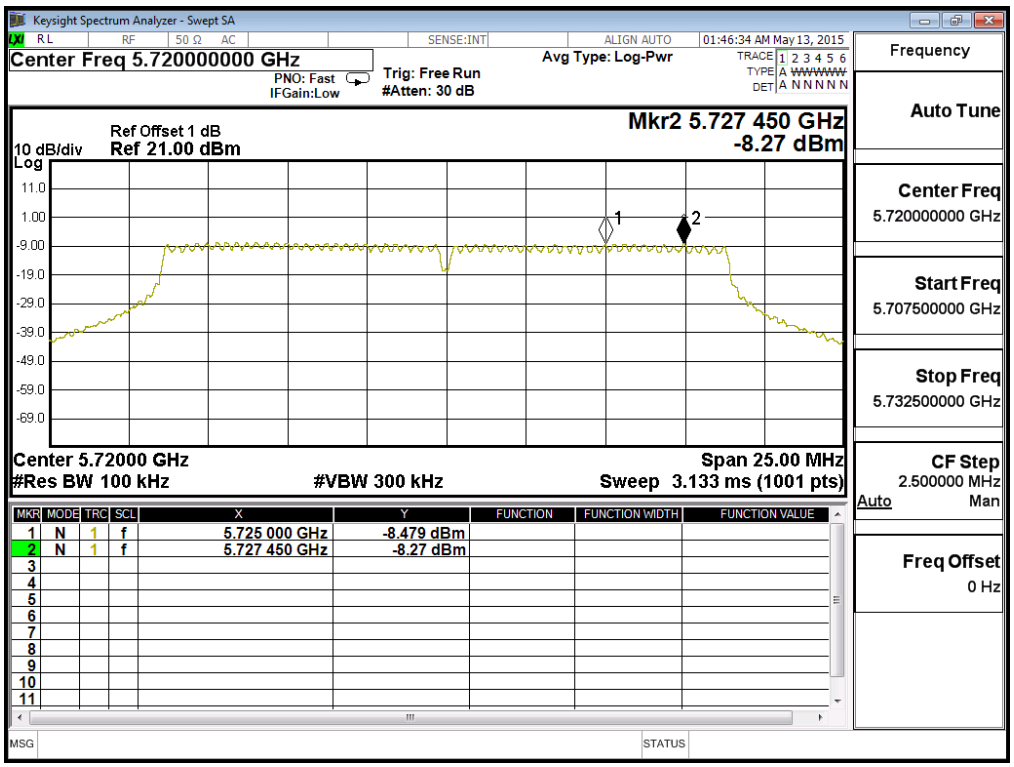
Channel 144: (Chain A)



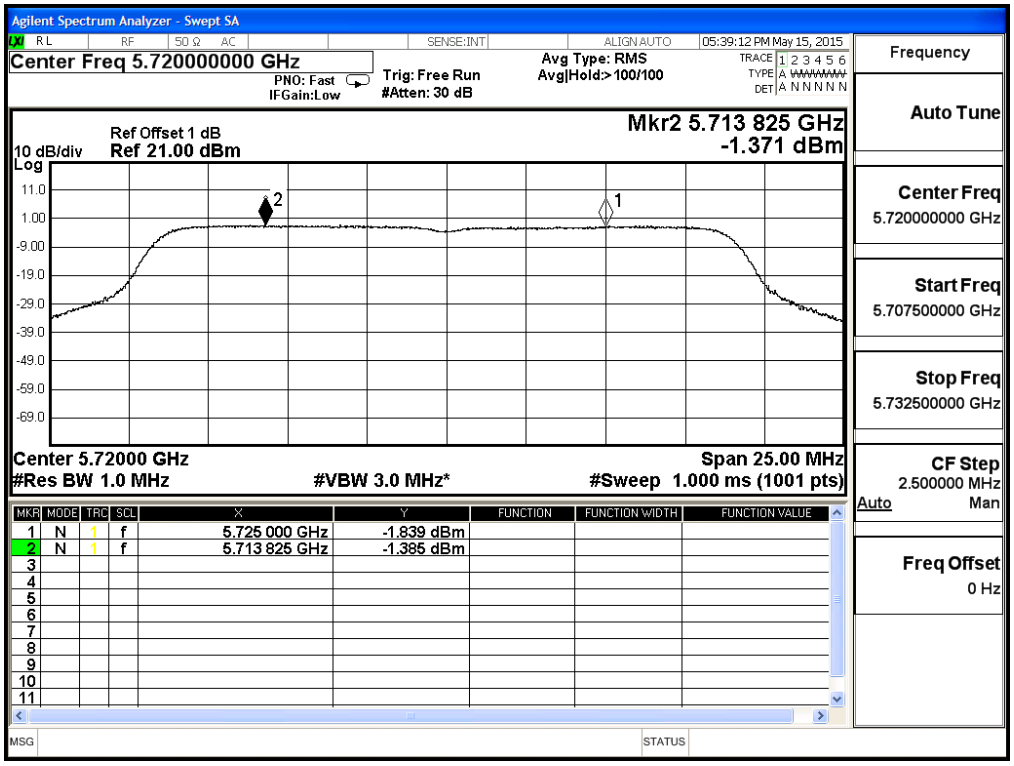
Channel 144: (Chain B)



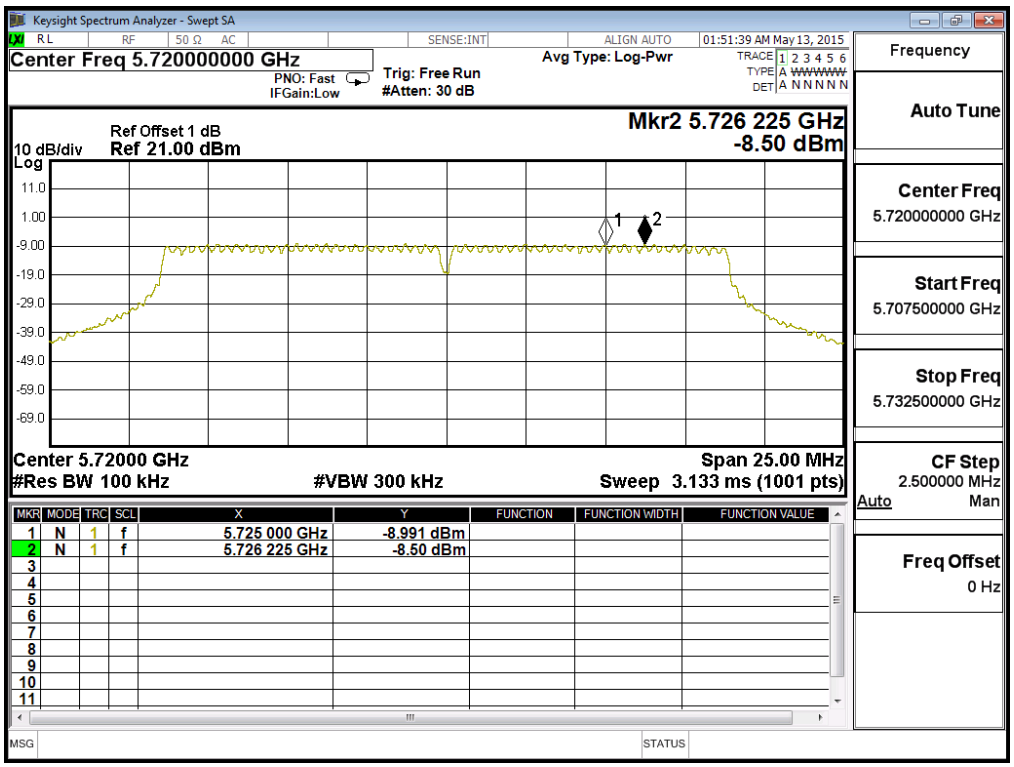
Channel 144: (Chain B)



Channel 144: (Chain C)



Channel 144: (Chain C)



Product : Access Point/Sensor
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 5: Transmit (802.11ac-40BW-45Mbps) (Internal Antenna)

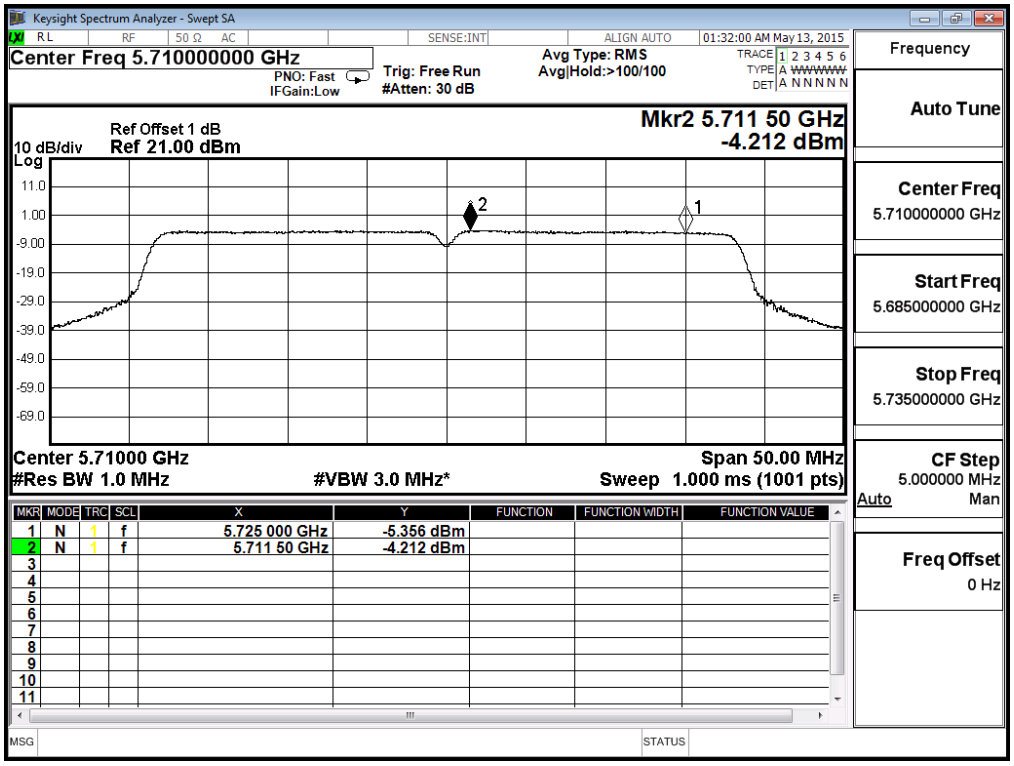
Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	Total PPSD (dBm)1	Required Limit (dBm)	Result
142	5710(Band3)	A	-4.212	0.559	5.9	Pass
		B	-3.847	0.924		Pass
		C	-4.422	0.349		Pass

Note :
1. The quantity 10*log 3 (three antennas) is added to the spectrum peak value according to document 662911 D01.
2. The peak power spectral density shall be reduced by the amount in Db that the directional gain of the antenna exceeds 6 dBi.

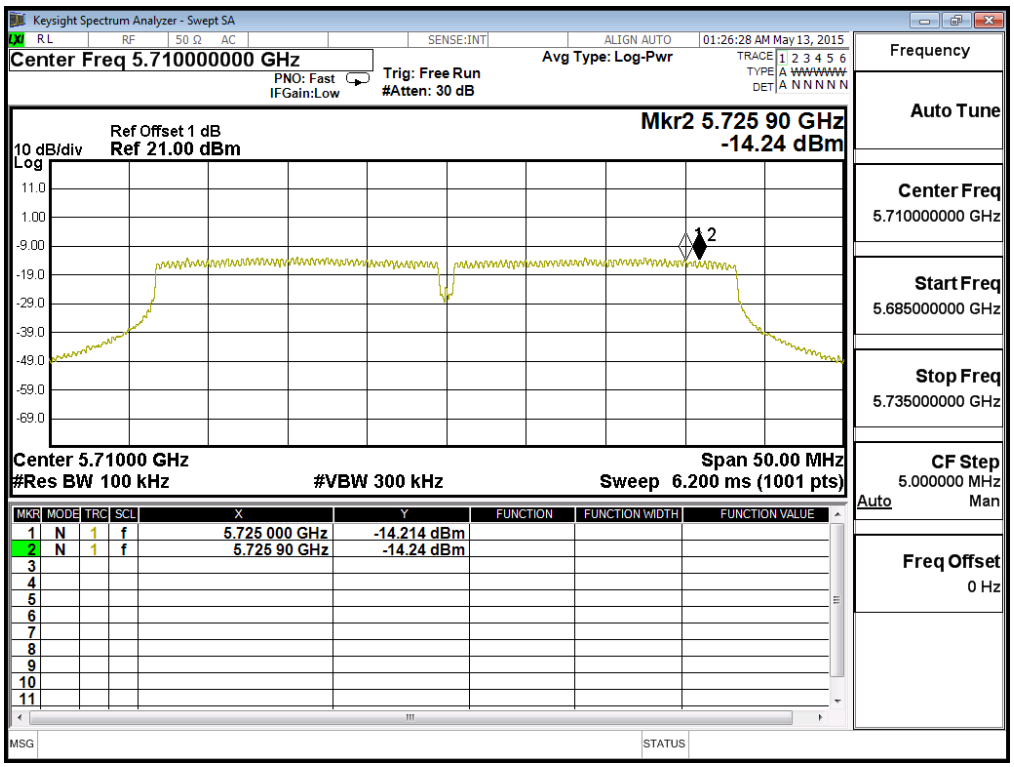
Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	BWCF (Db)	Total PPSD (dBm)1	Required Limit (dBm)	Result
155	5710(Band4)	A	-14.240	6.980	-2.489	25.1	Pass
		B	-14.080	6.980	-2.329	25.1	Pass
		C	-14.910	6.980	-3.159	25.1	Pass

Note :
1. The quantity 10*log 3 (three antennas) is added to the spectrum peak value according to document 662911 D01.
2. The peak power spectral density shall be reduced by the amount in Db that the directional gain of the antenna exceeds 6 dBi.

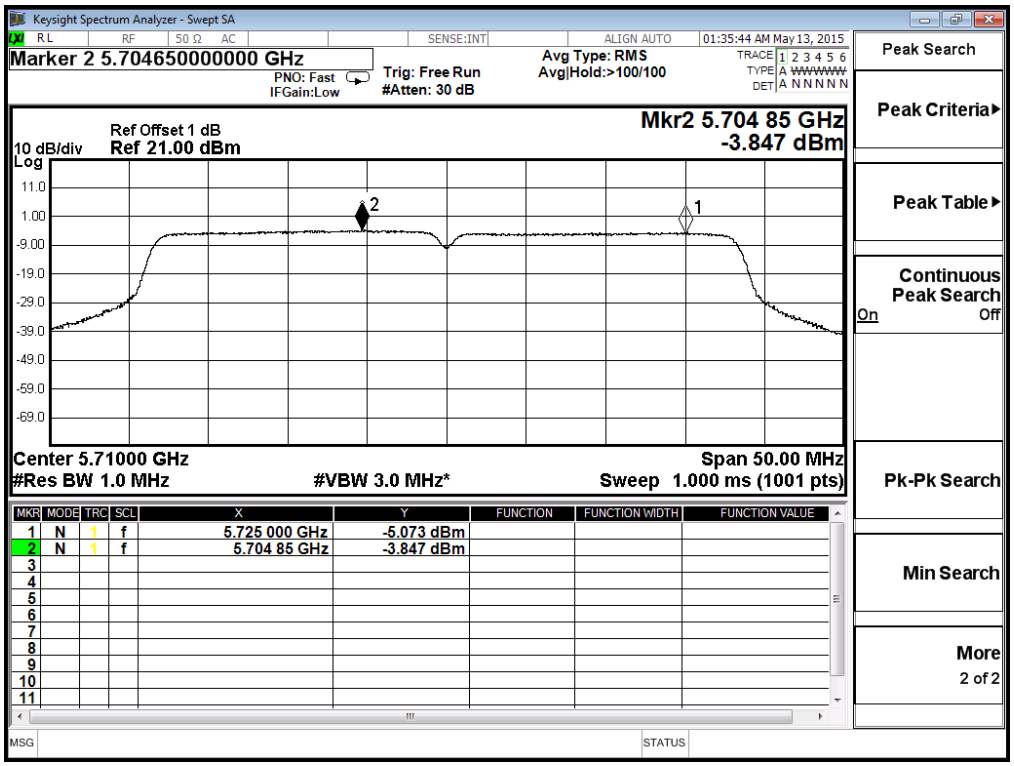
Channel 142 : (Chain A)



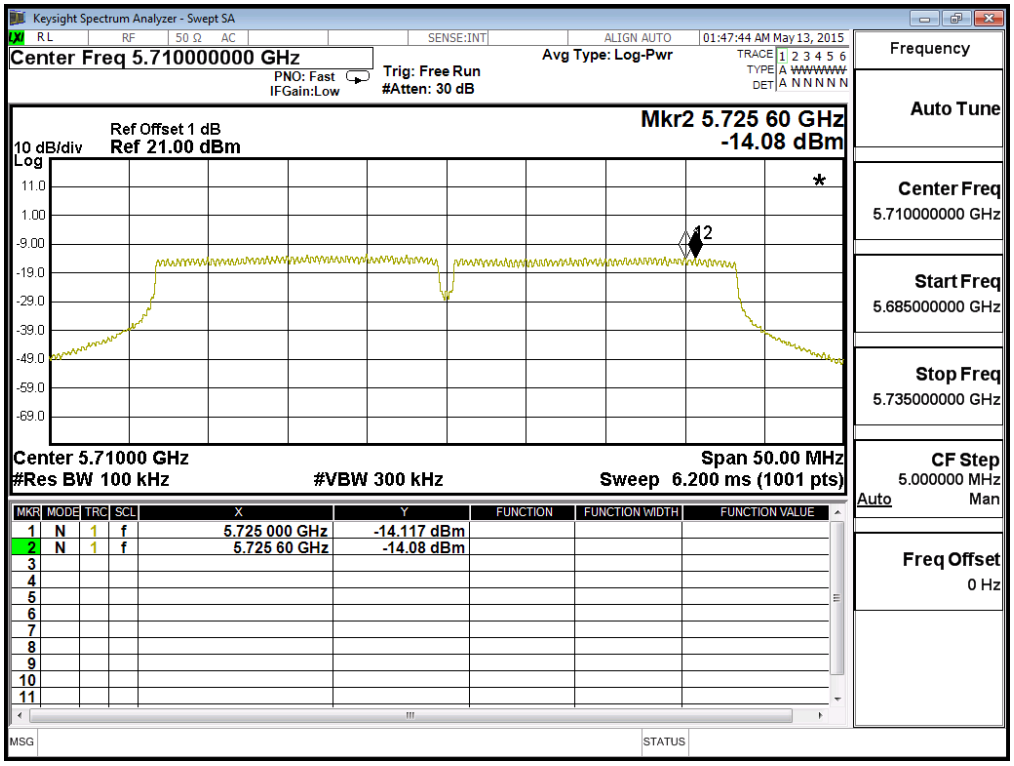
Channel 142: (Chain A)



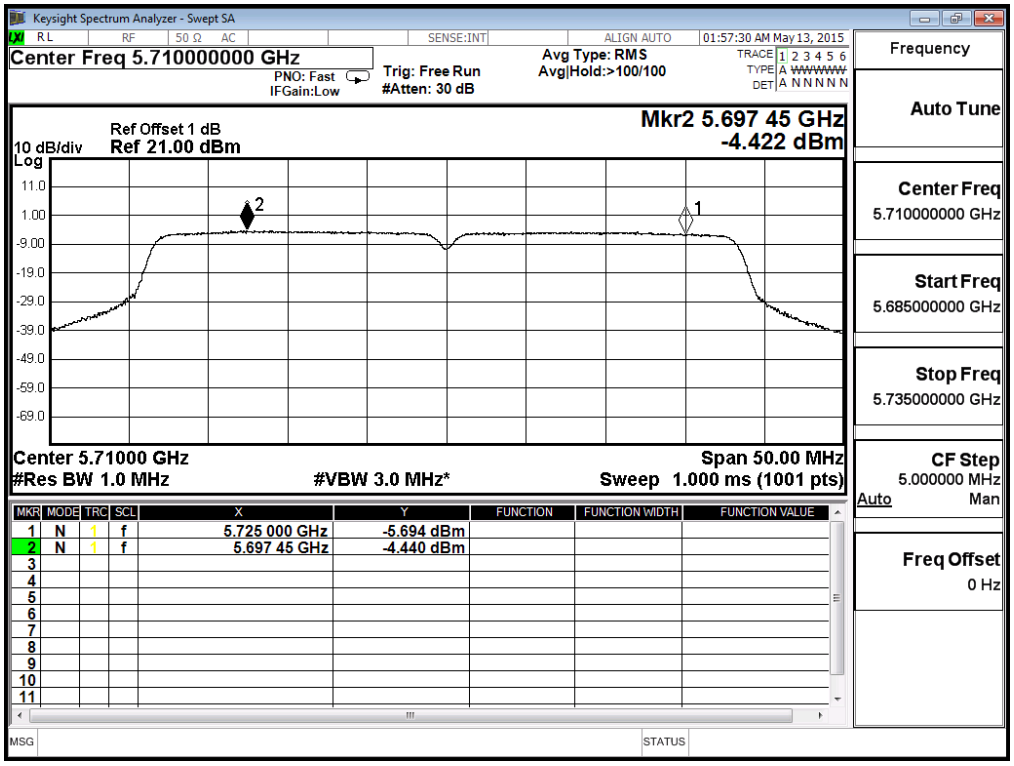
Channel 142: (Chain B)



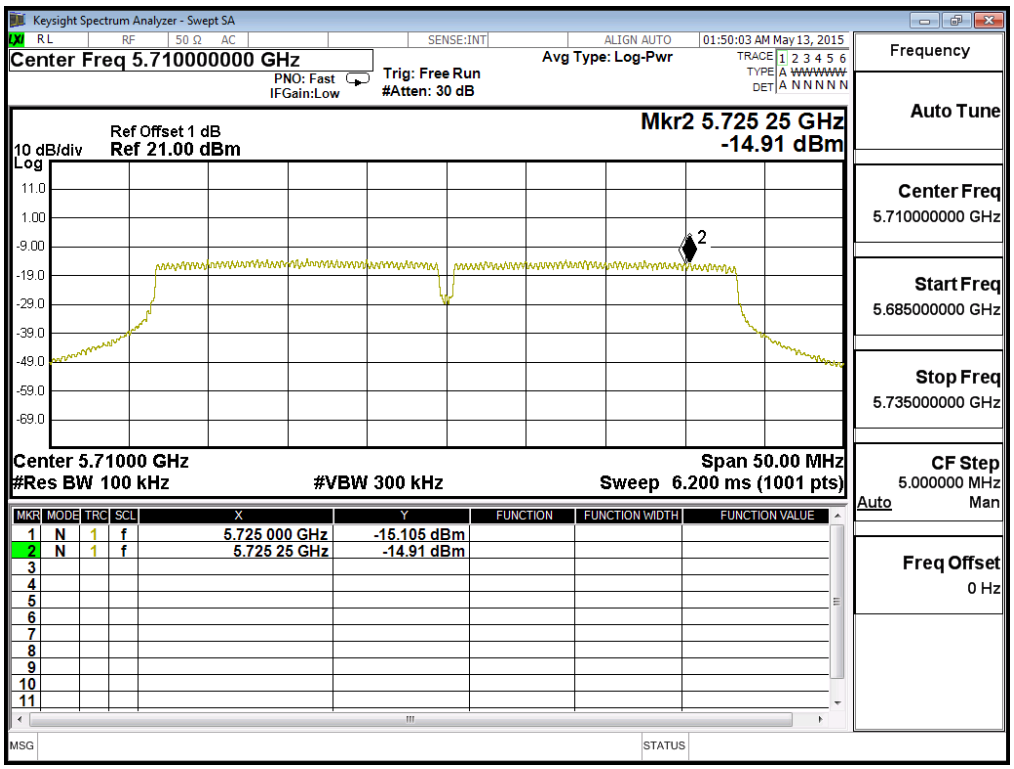
Channel 142: (Chain B)



Channel 142: (Chain C)



Channel 142: (Chain C)



Product : Access Point/Sensor
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 6: Transmit (802.11ac-80BW-97.5Mbps) (Internal Antenna)

Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	Total PPSD (dBm)1	Required Limit (dBm)	Result
58	5290	A	-12.620	-7.849	8.4	Pass
		B	-12.720	-7.949		Pass
		C	-11.640	-6.869		Pass
106	5530	A	-11.520	-6.749	5.9	Pass
		B	-10.840	-6.069		Pass
		C	-10.360	-5.589		Pass
122	5610	A	-3.890	0.881	5.9	Pass
		B	-4.710	0.061		Pass
		C	-3.430	1.341		Pass
138	5690(Band3)	A	-4.437	0.334	5.9	Pass
		B	-7.438	-2.667		Pass
		C	-7.744	-2.973		Pass

Note :

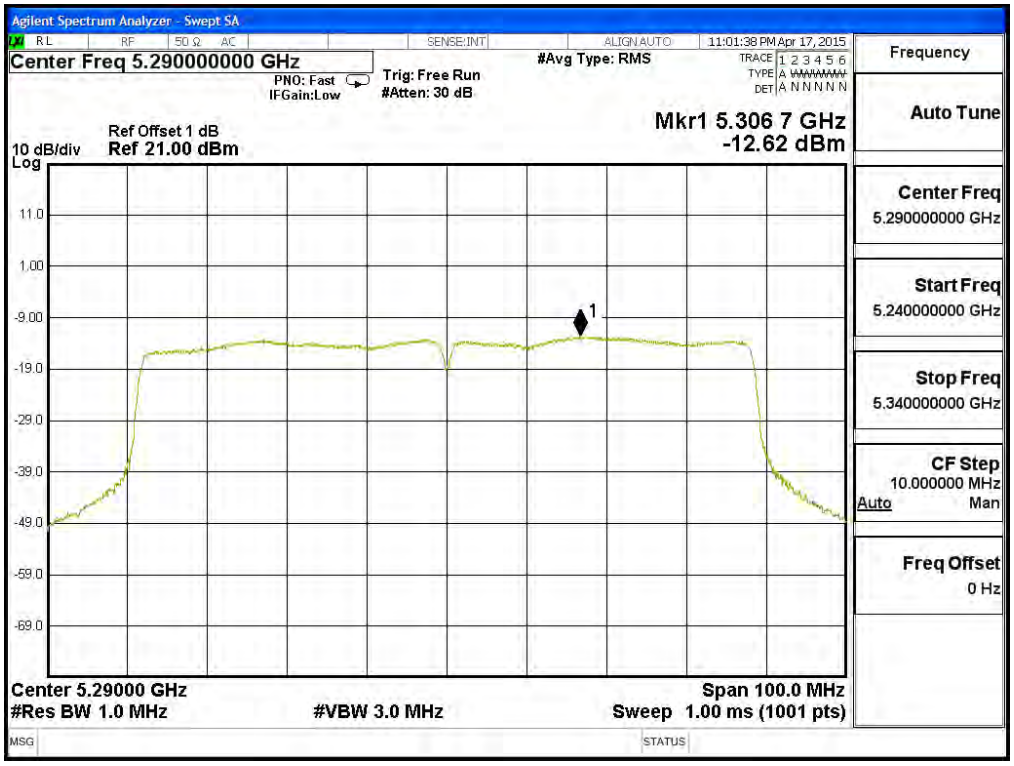
1. The quantity 10*log 3 (three antennas) is added to the spectrum peak value according to document 662911 D01.
2. The peak power spectral density shall be reduced by the amount in Db that the directional gain of the antenna exceeds 6 dBi.

Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	BWCF (Db)	Total PPSD (dBm)1	Required Limit (dBm)	Result
155	5690(Band4)	A	-17.63	6.980	-5.879	25.1	Pass
		B	-18.29	6.980	-6.539	25.1	Pass
		C	-18.25	6.980	-6.499	25.1	Pass

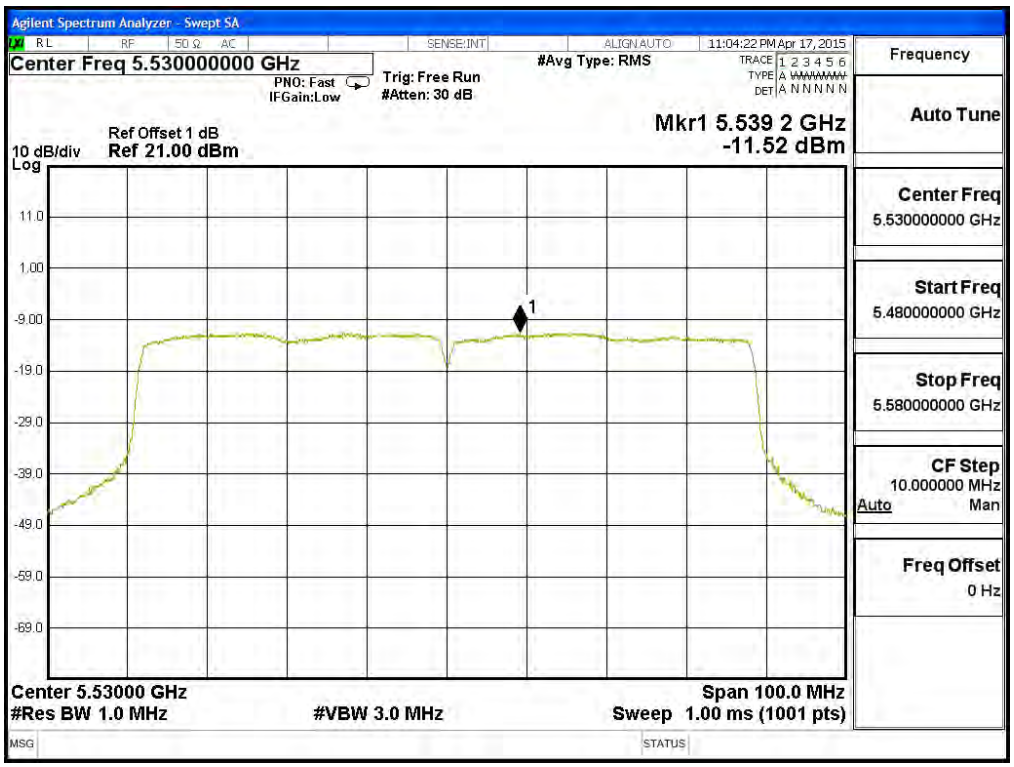
Note :

1. The quantity 10*log 3 (three antennas) is added to the spectrum peak value according to document 662911 D01.
2. The peak power spectral density shall be reduced by the amount in Db that the directional gain of the antenna exceeds 6 dBi.

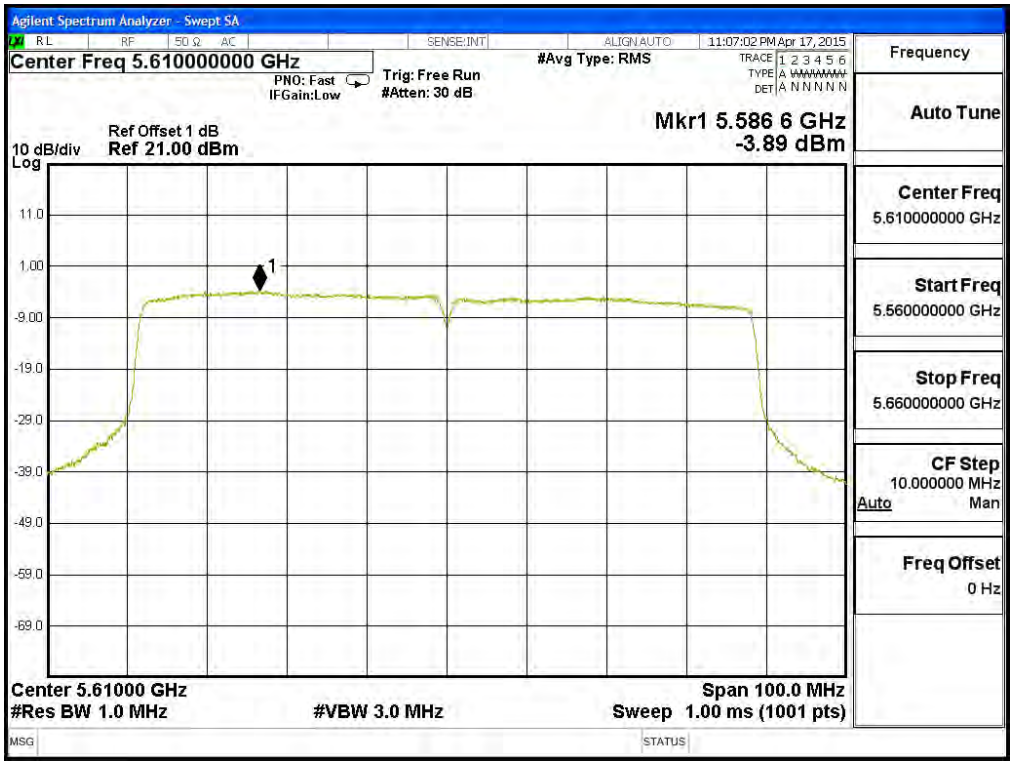
Channel 58 : (Chain A)



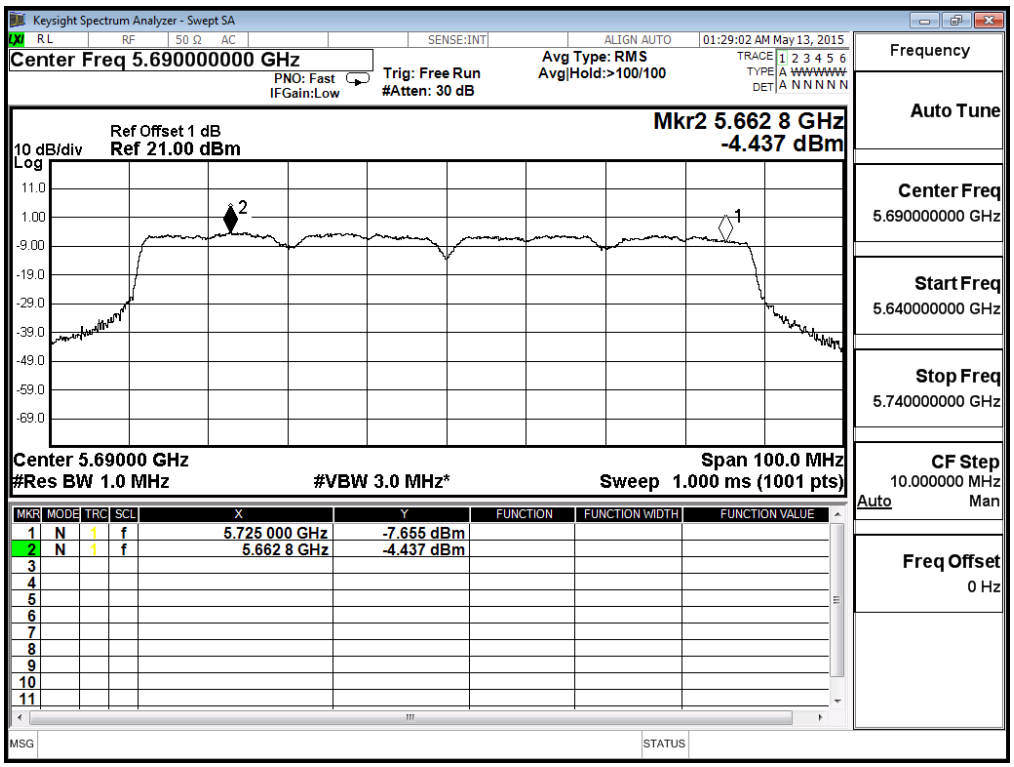
Channel 106: (Chain A)



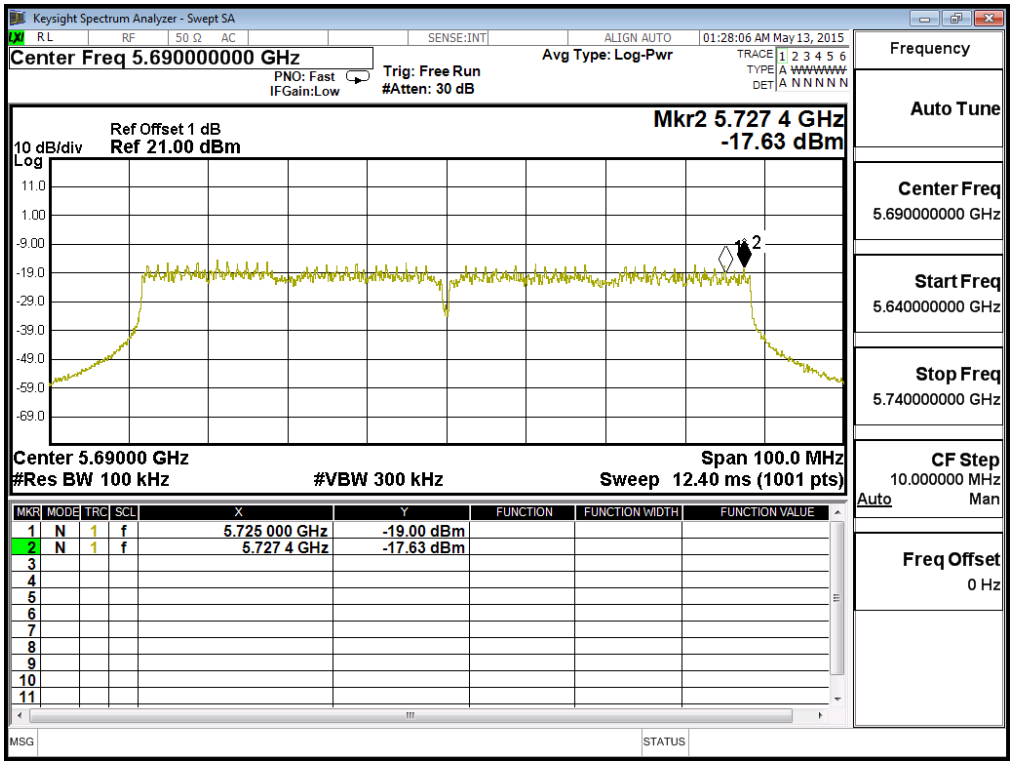
Channel 122: (Chain A)



Channel 138: (Chain A)

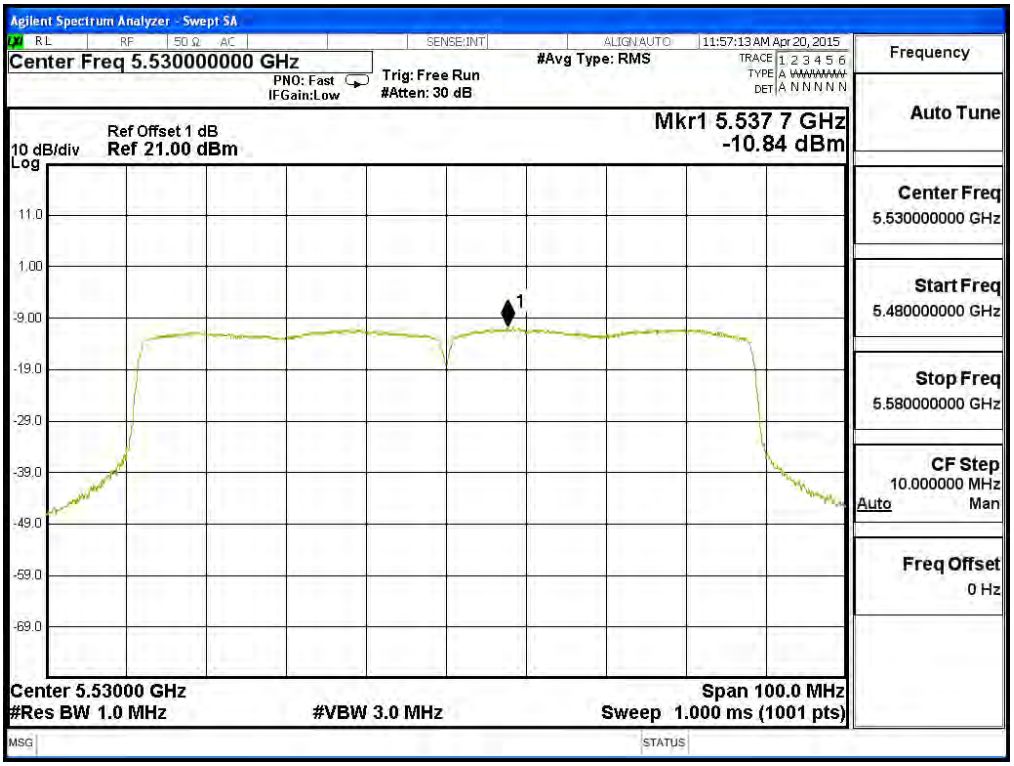


Channel 138: (Chain A)



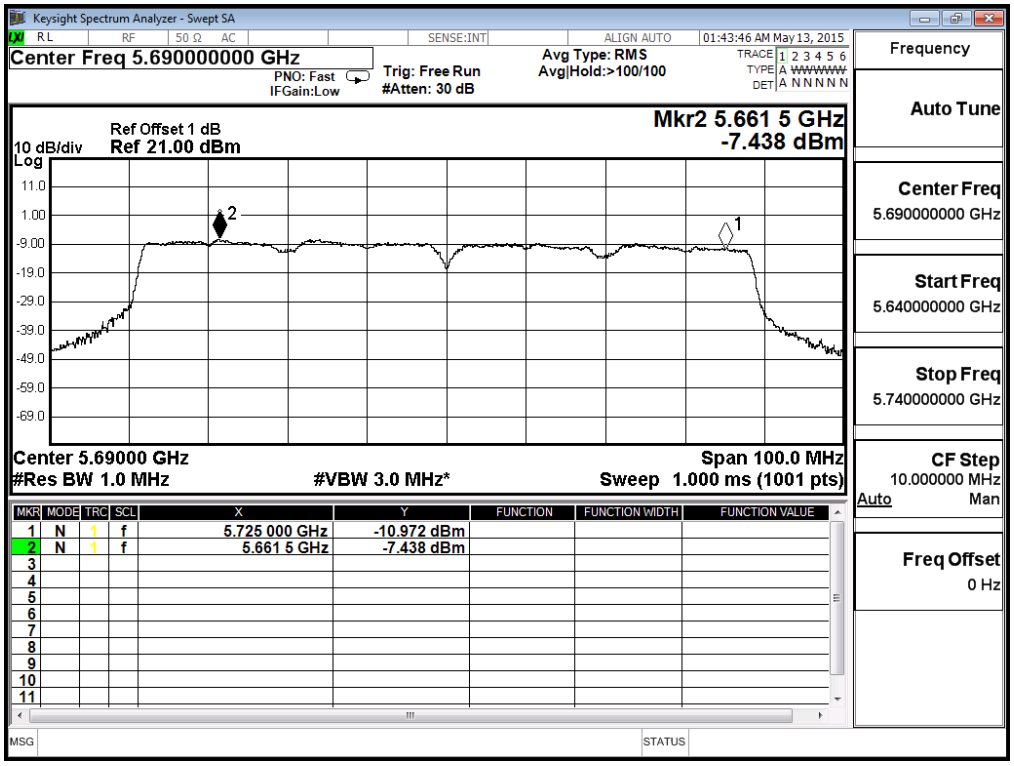
Channel 58: (Chain B)

Channel 106: (Chain B)

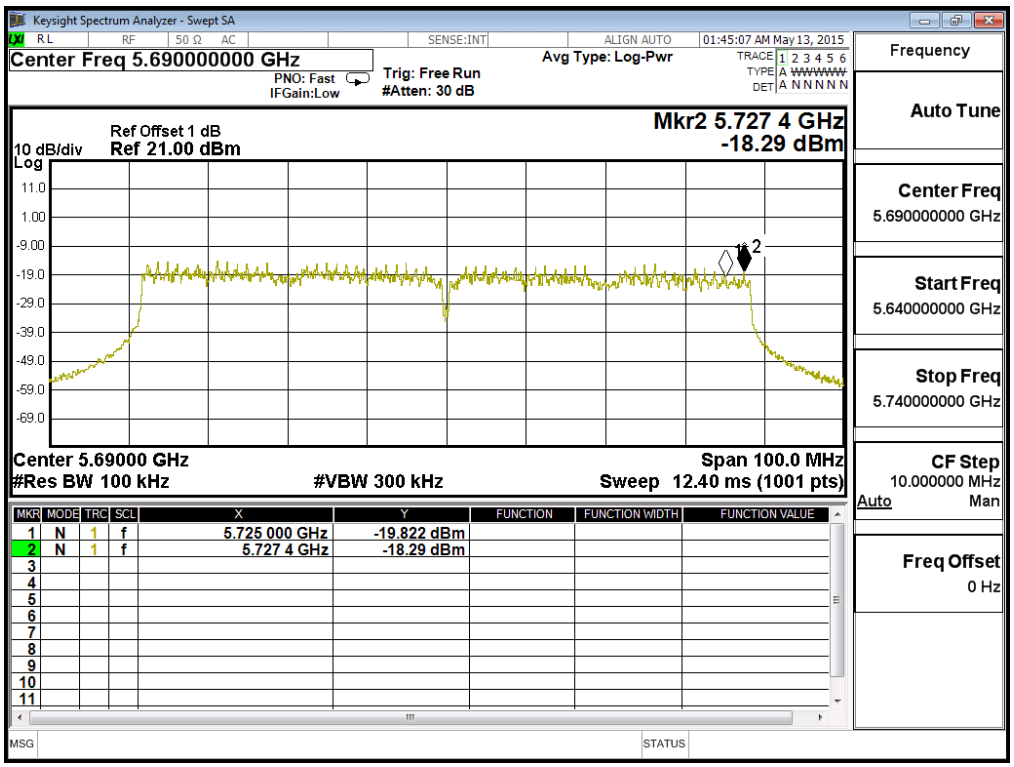


Channel 122: (Chain B)

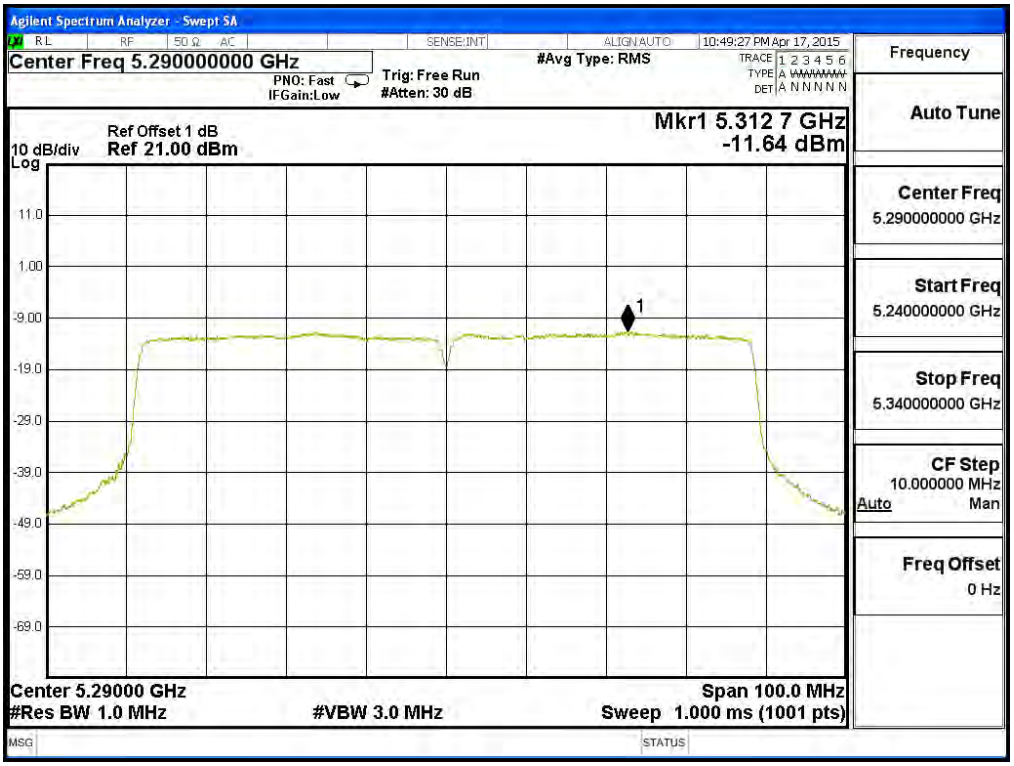
Channel 138: (Chain B)



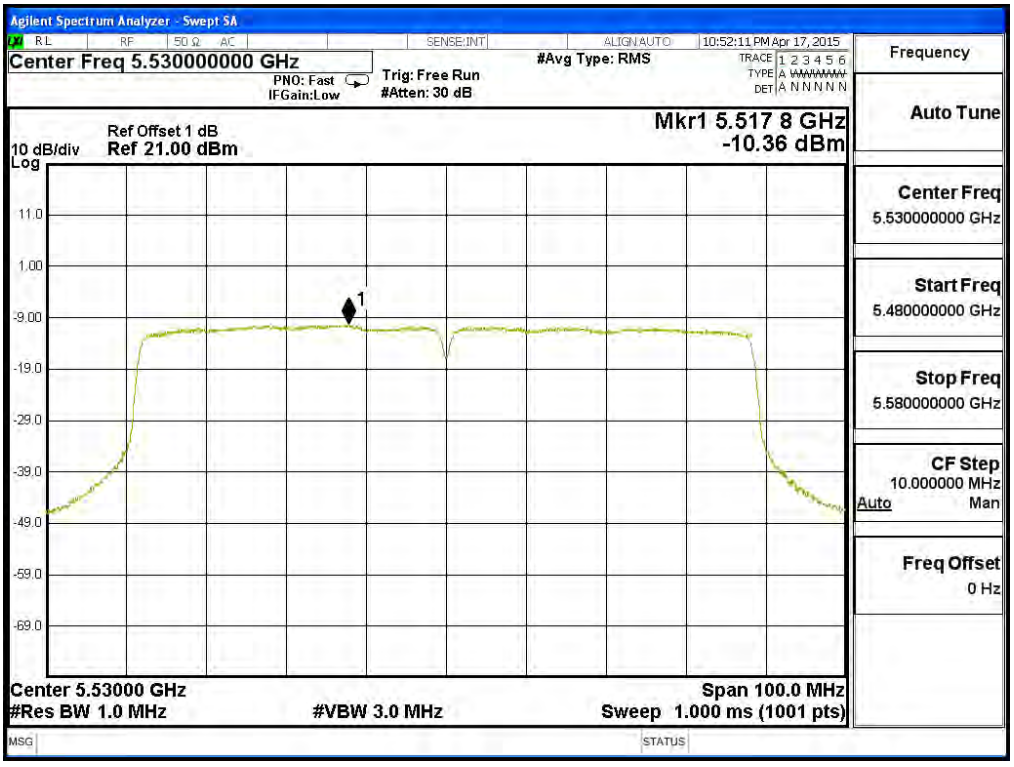
Channel 138: (Chain B)



Channel 58: (Chain C)

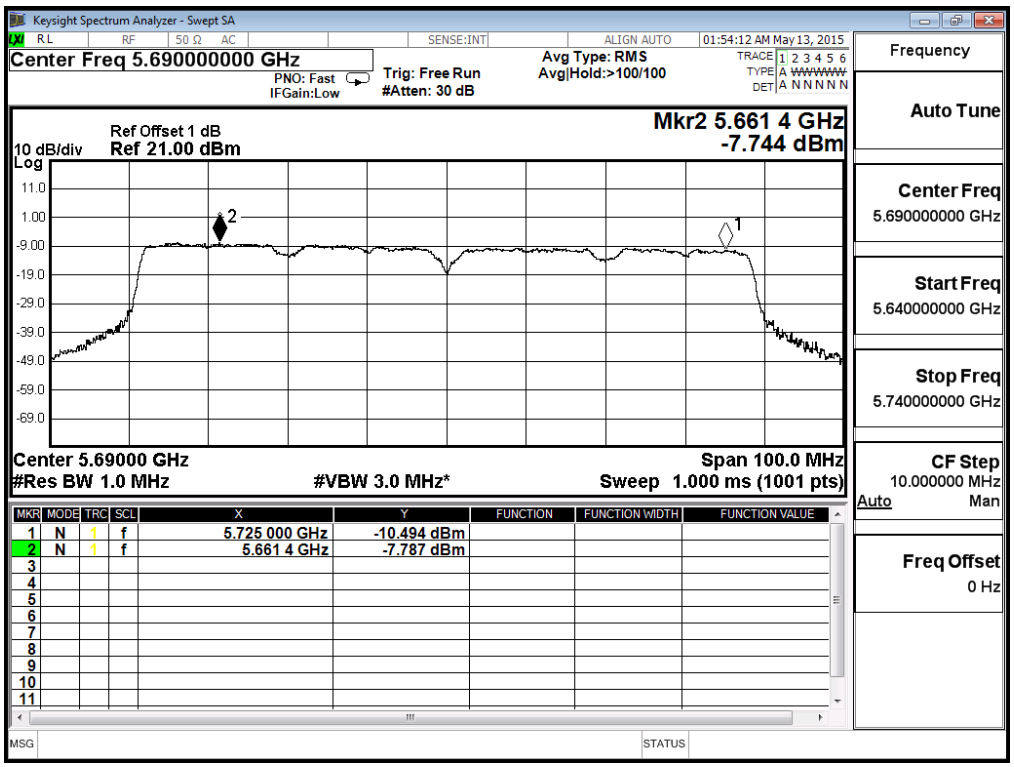


Channel 106: (Chain C)

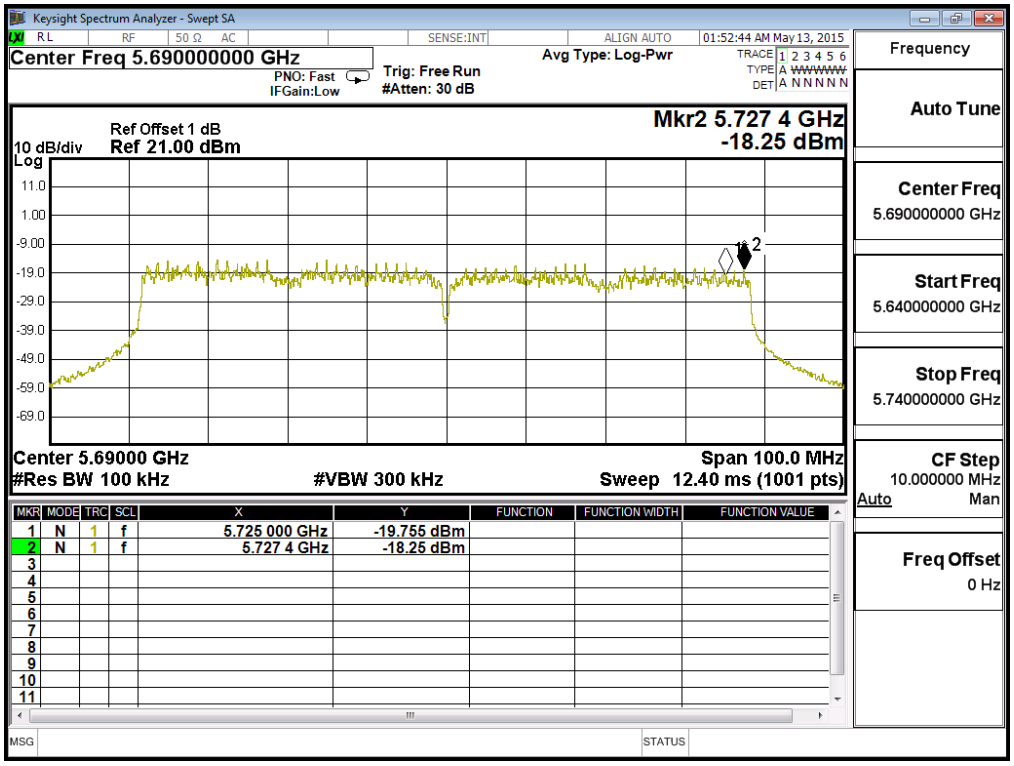


Channel 122: (Chain C)

Channel 138: (Chain C)



Channel 138: (Chain C)



Product : Access Point/Sensor
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter (802.11a-6Mbps) (External Antenna)

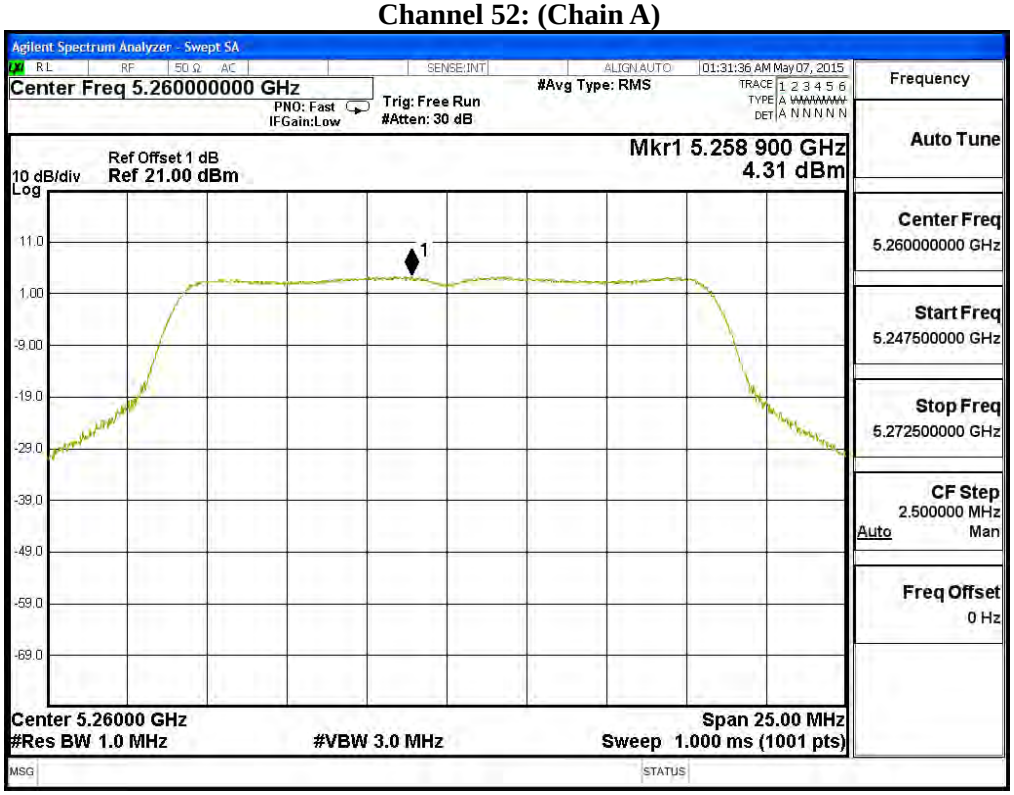
5250~5350MHz, 5470-5600 MHz and 5650-5725 MHz

Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)	Required Limit (dBm)	Result
52	5260	A	4.310	9.081	11	Pass
		B	4.560	9.331	11	Pass
		C	4.950	9.721	11	Pass
60	5300	A	4.150	8.921	11	Pass
		B	4.500	9.271	11	Pass
		C	4.430	9.201	11	Pass
64	5320	A	4.080	8.851	11	Pass
		B	4.320	9.091	11	Pass
		C	3.770	8.541	11	Pass
100	5500	A	3.360	8.131	10.93	Pass
		B	3.300	8.071	10.93	Pass
		C	2.540	7.311	10.93	Pass
116	5580	A	3.030	7.801	10.93	Pass
		B	4.440	9.211	10.93	Pass
		C	3.170	7.941	10.93	Pass
140	5700	A	2.500	7.271	10.93	Pass
		B	2.490	7.261	10.93	Pass
		C	2.760	7.531	10.93	Pass

Note :

1. The quantity 10*log 3 (three antennas) is added to the spectrum peak value according to document 662911 D01.
2. The peak power spectral density shall be reduced by the amount in Db that the directional gain of the antenna exceeds 6 dBi.

Channel 52: (Chain A)



Channel 60: (Chain A)