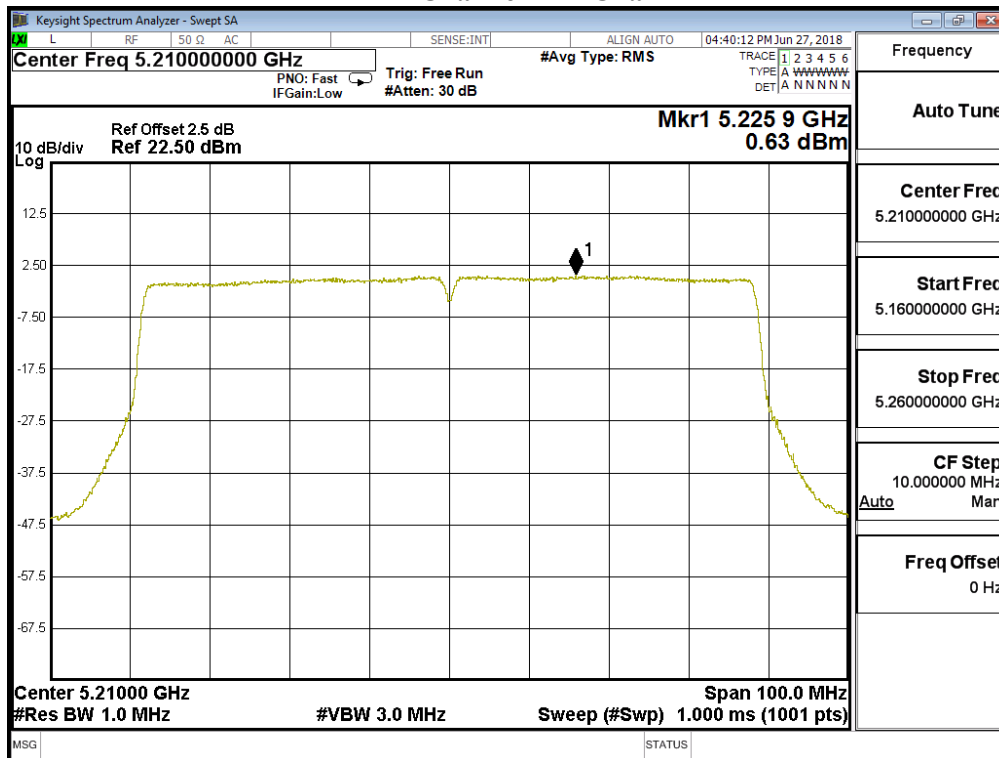
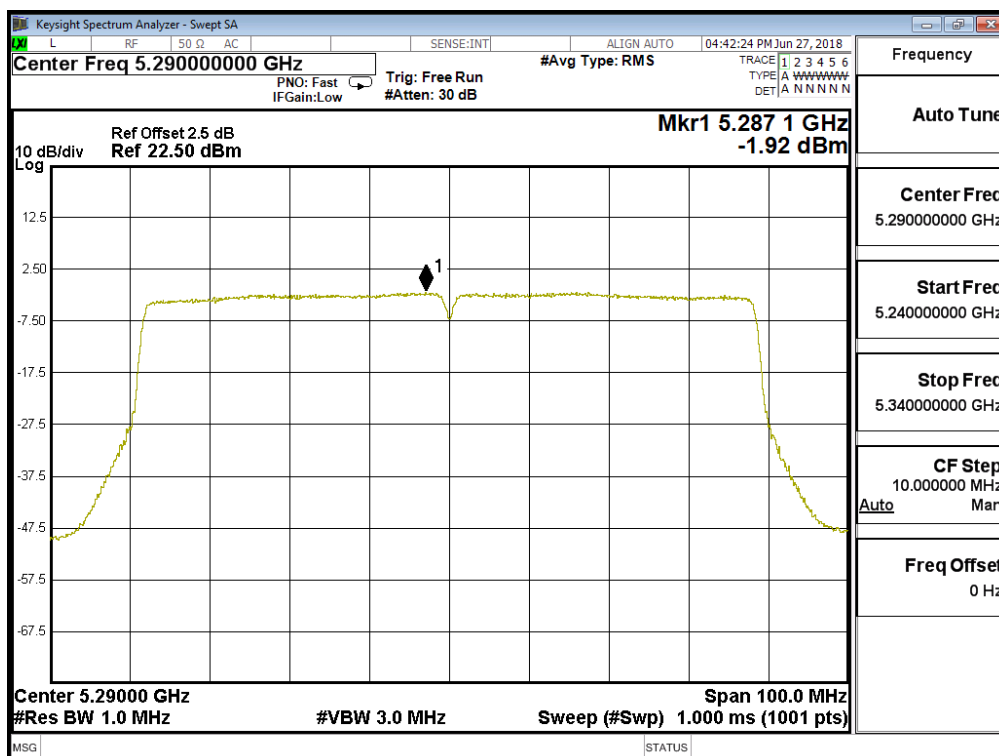


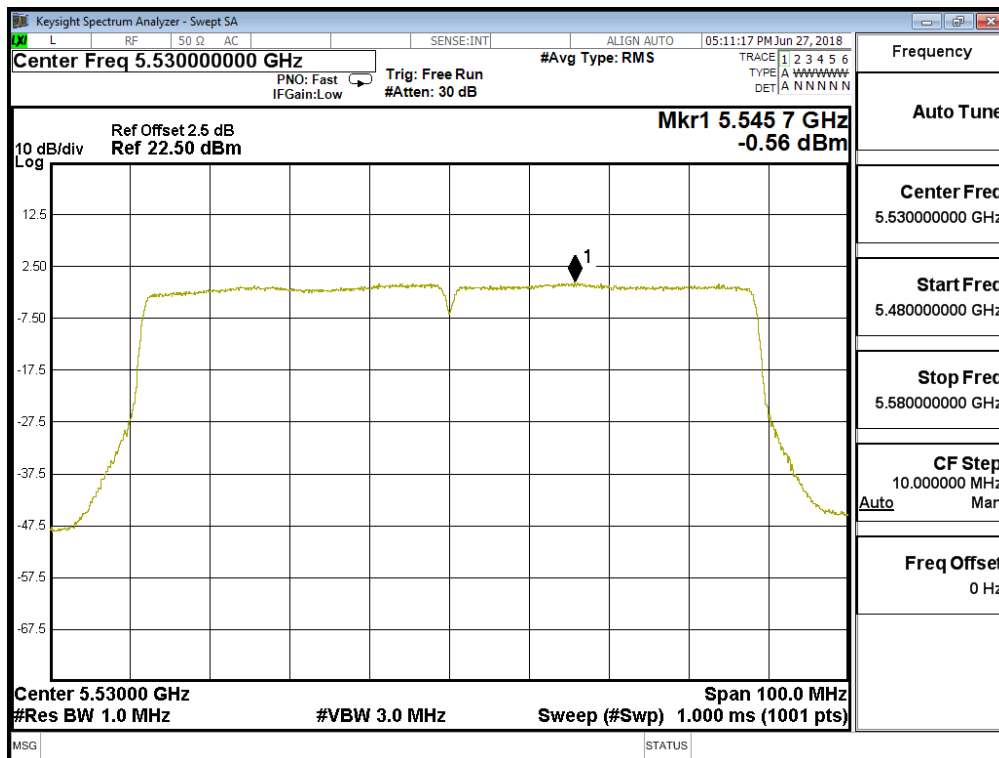
Channel 42 – Chain D



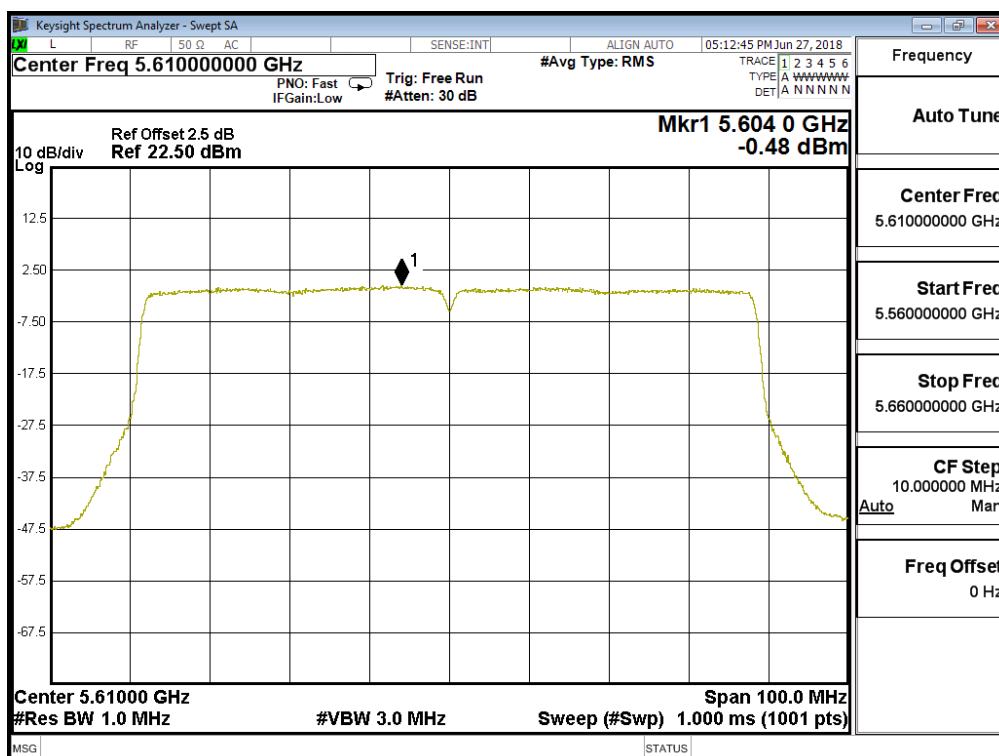
Channel 58 – Chain D



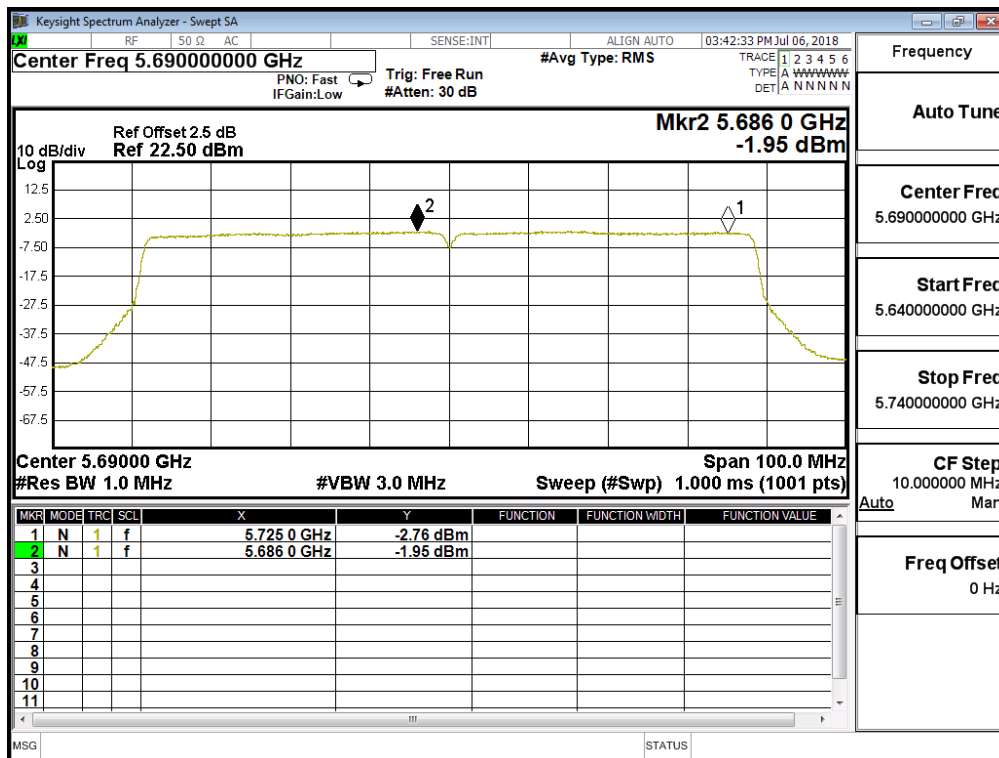
Channel 106 – Chain D



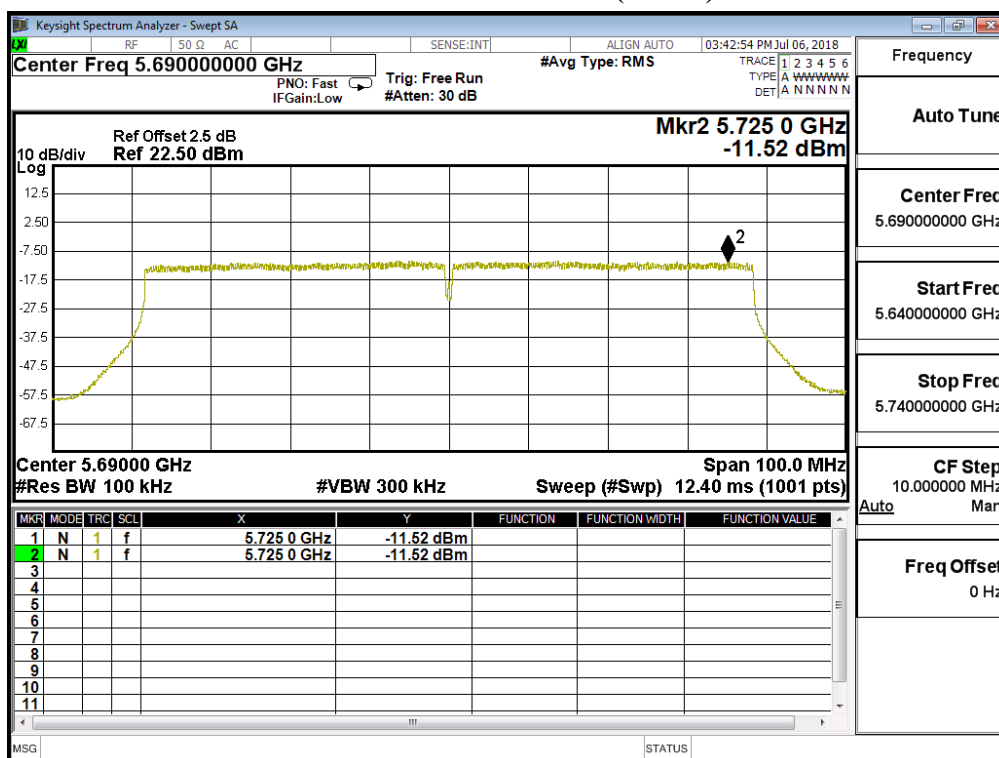
Channel 122 – Chain D



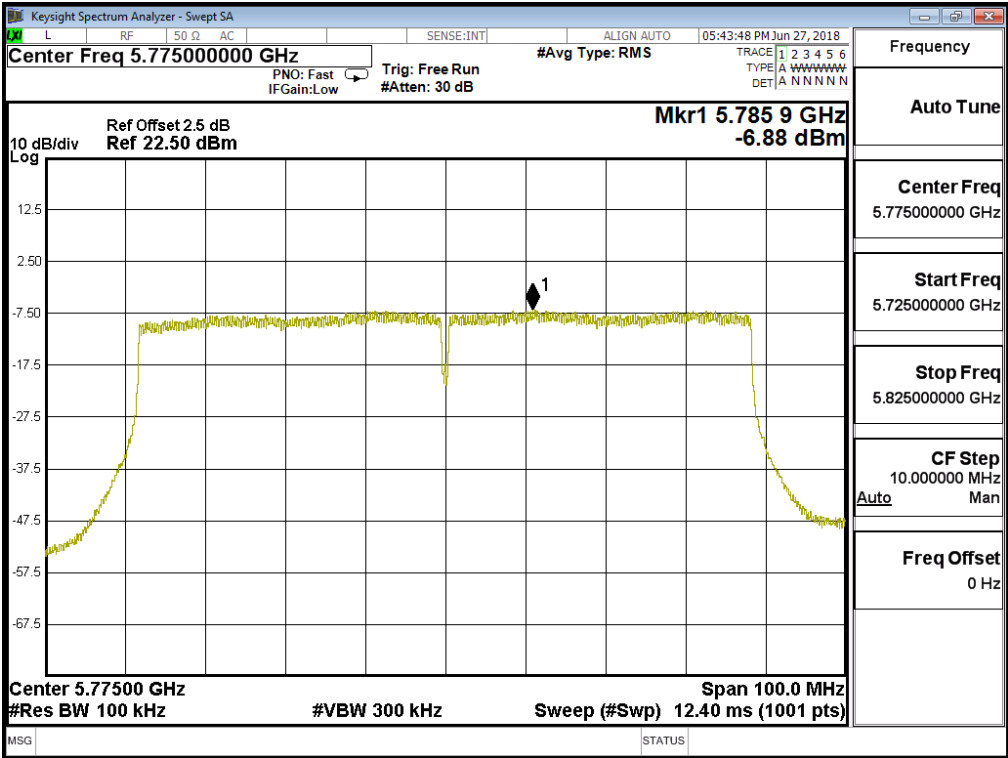
Channel 138 (Band3) – Chain D



Channel 138 (Band4) – Chain D



Channel 155: CHAIN D

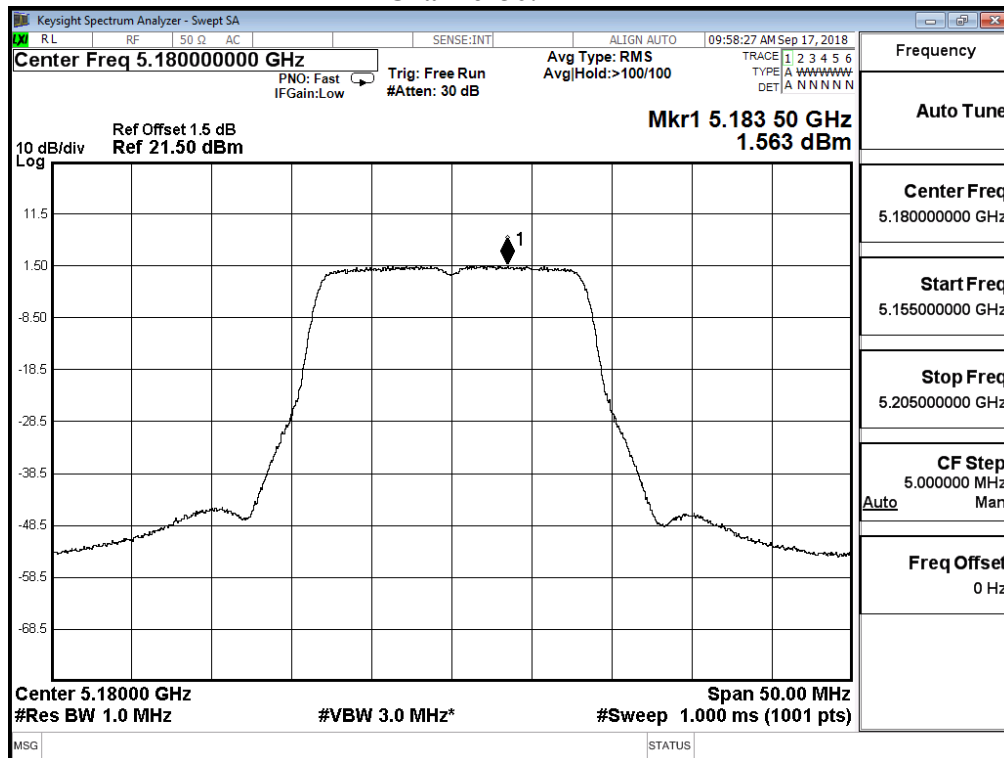


Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (Antenna No.18)

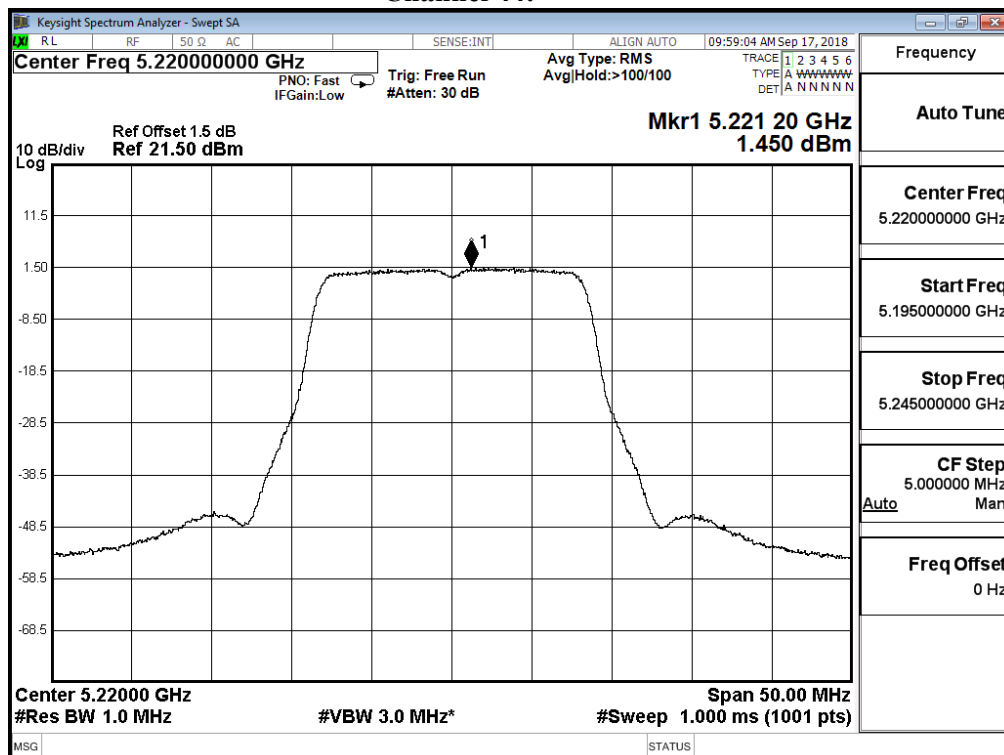
Channel Number	Frequency (MHz)	Data Rate (Mbps)	Measurement Level (dBm)	Required Limit (dBm)	Result
36	5180	6	1.56	2	Pass
44	5220	6	1.45	2	Pass
48	5240	6	1.49	2	Pass
52	5260	6	1.45	2	Pass
60	5300	6	1.57	2	Pass
64	5320	6	1.63	2	Pass
100	5500	6	1.56	2	Pass
116	5580	6	1.38	2	Pass
140	5700	6	1.54	2	Pass

Channel Number	Frequency (MHz)	Data Rate (Mbps)	PPSD (dBm)	BWCF (dB)	Total PSD (dBm)	Required Limit (dBm)	Result
149	5745	6	-0.37	6.98	12.63	<21	Pass
157	5785	6	0.33	6.98	13.33	<21	Pass
165	5825	6	0.03	6.98	13.03	<21	Pass

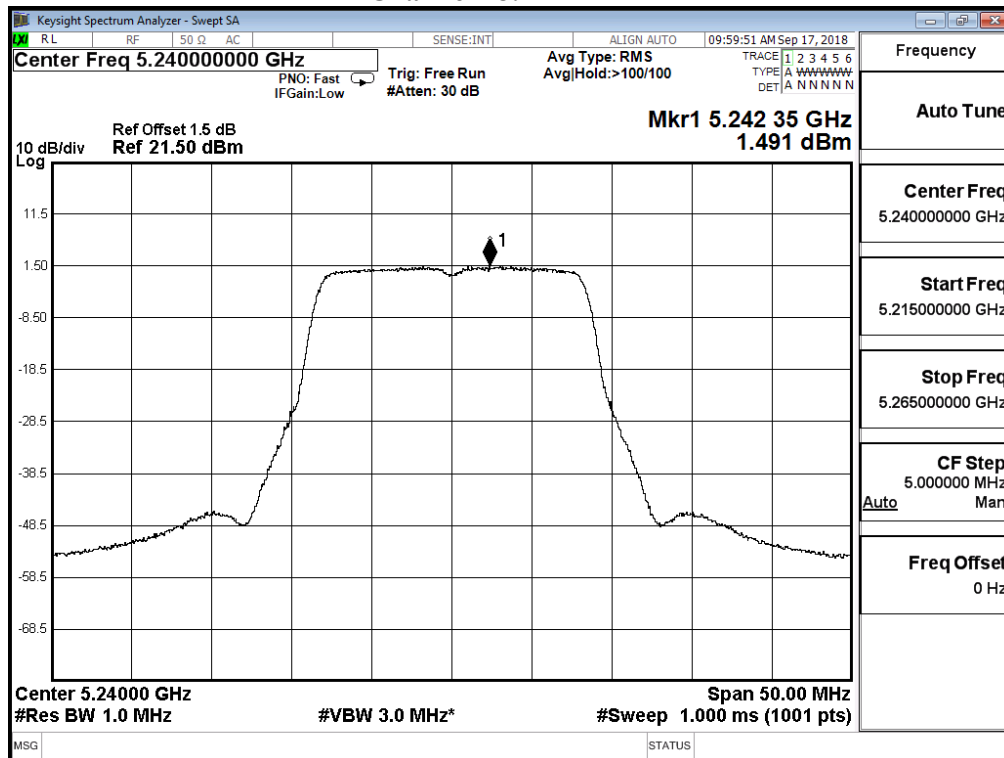
Channel 36:



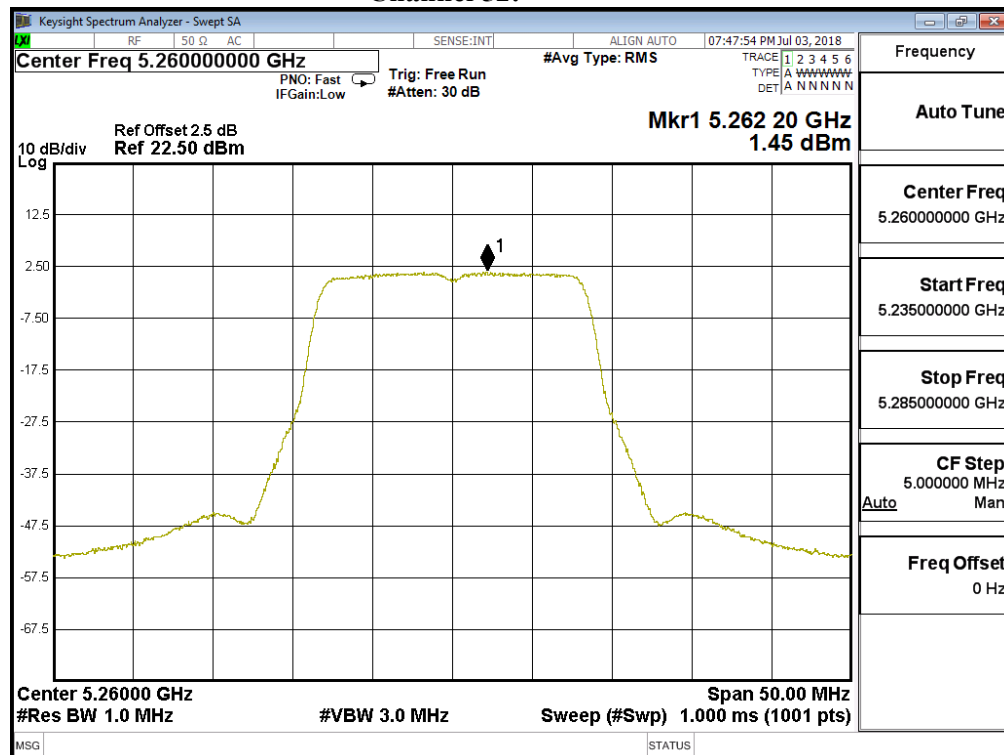
Channel 44:



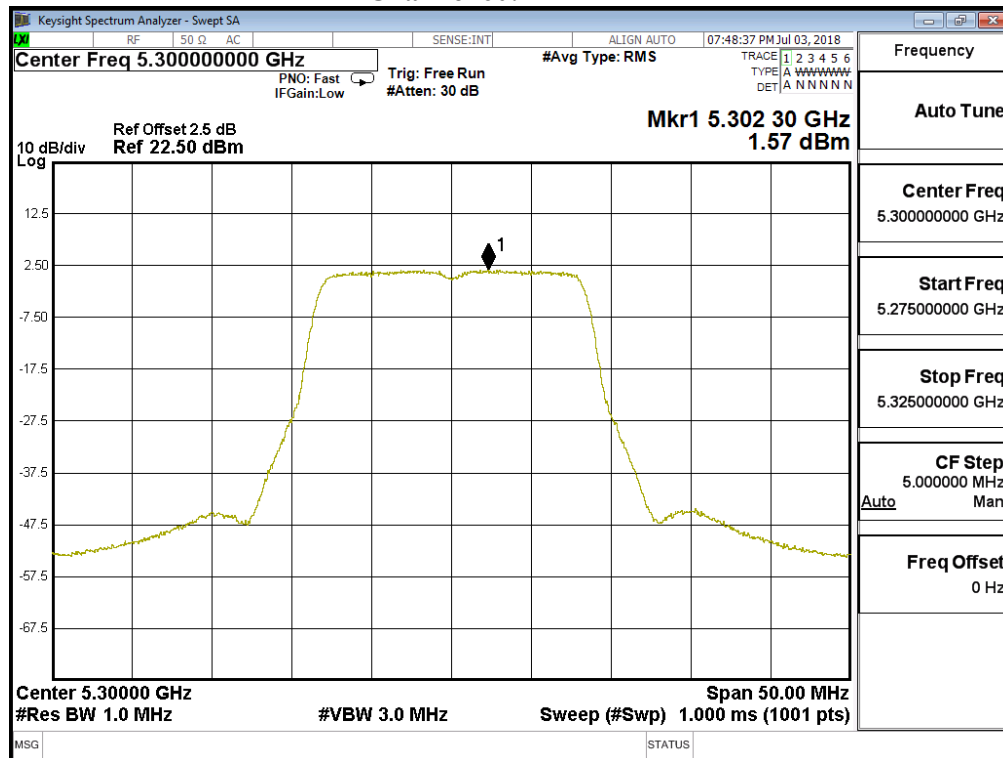
Channel 48:



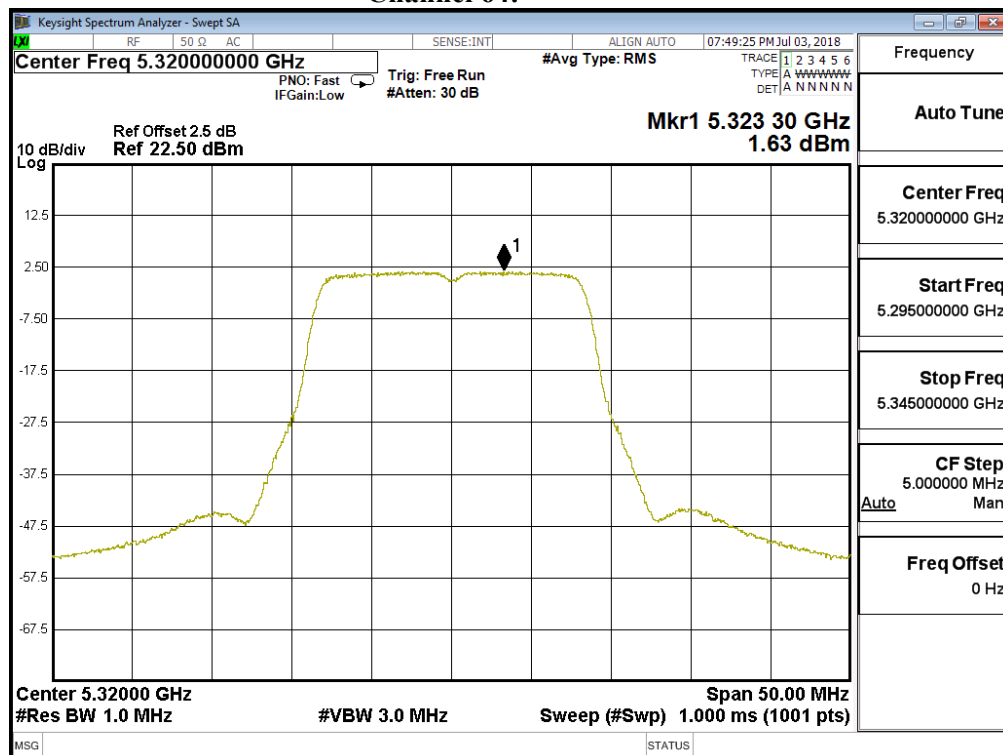
Channel 52:



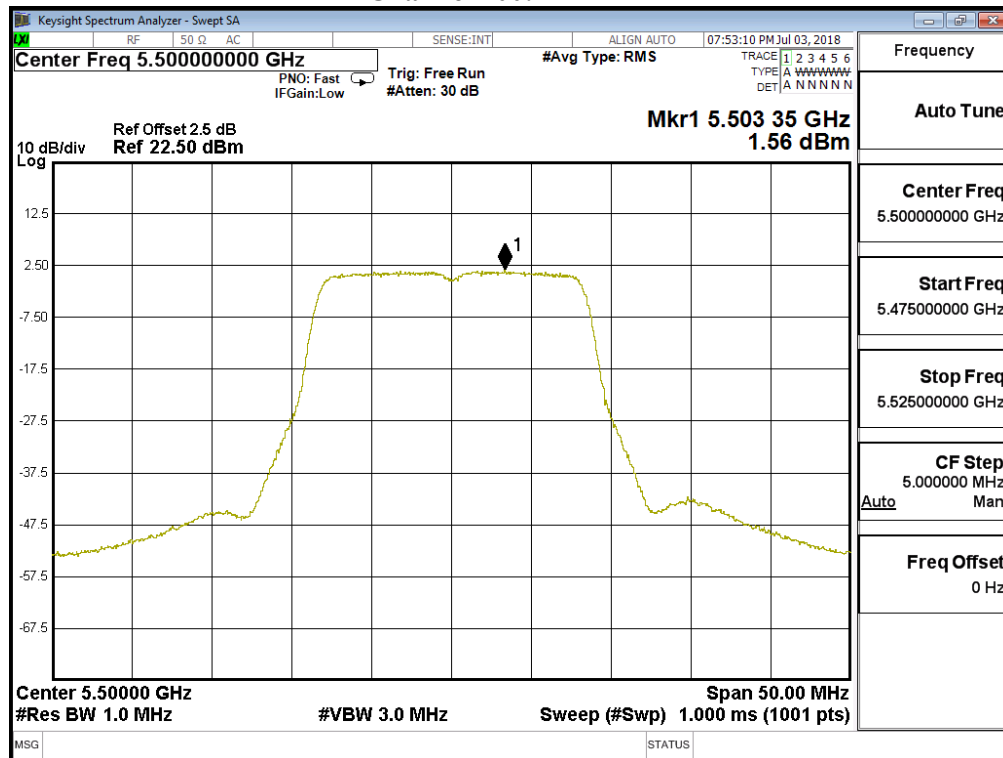
Channel 60:



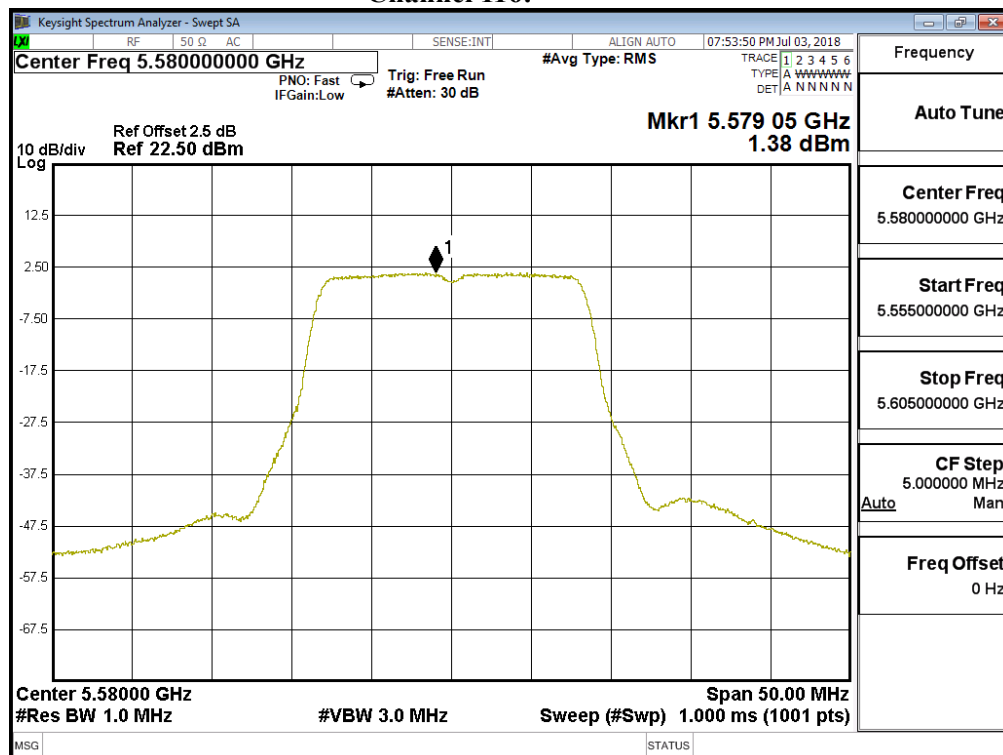
Channel 64:



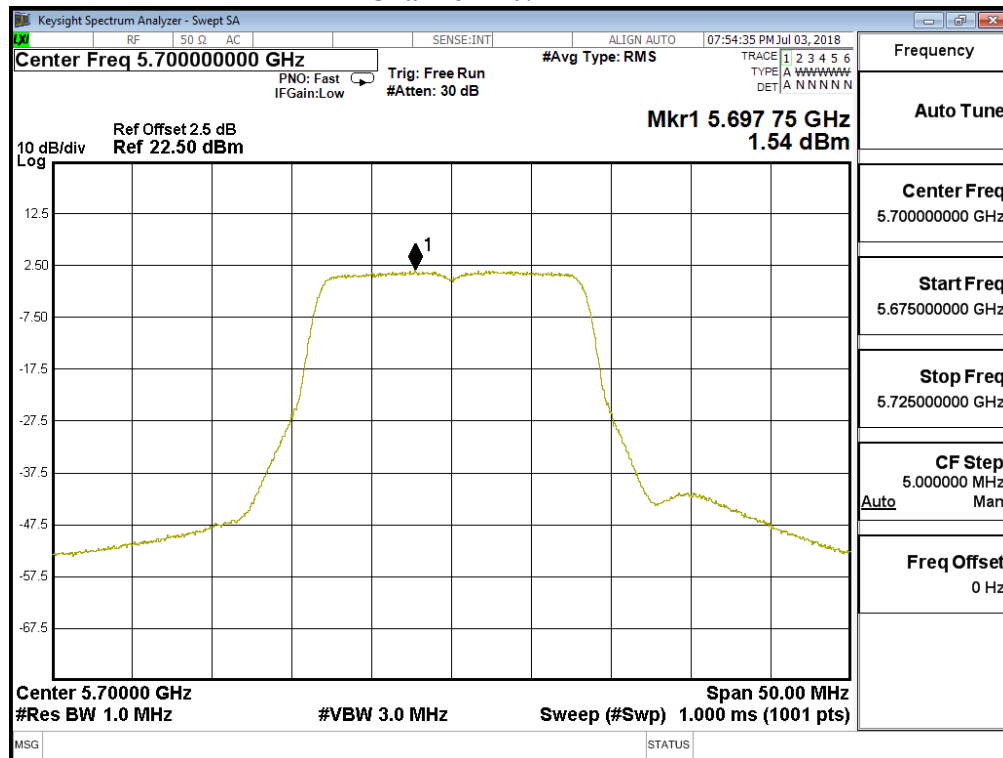
Channel 100:



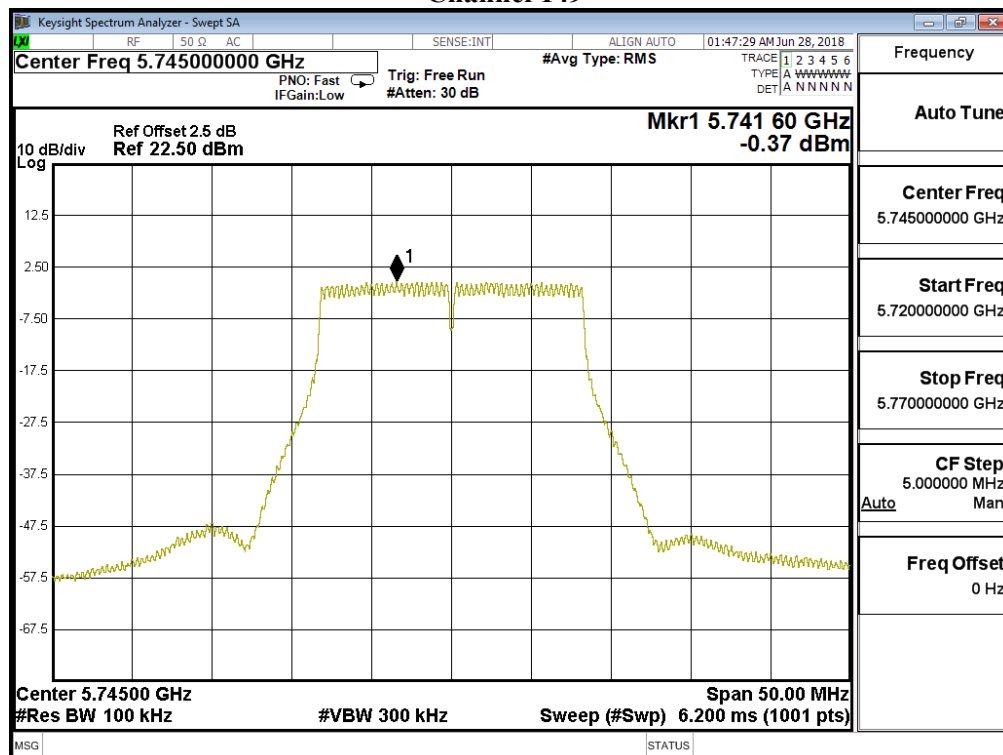
Channel 116:



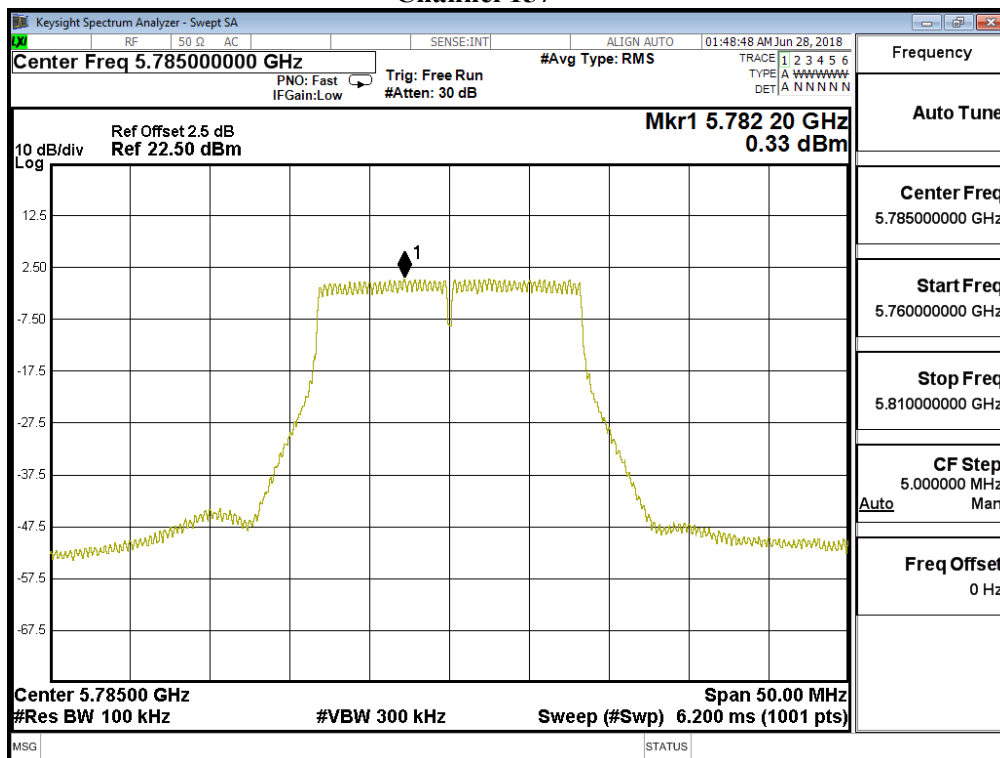
Channel 140:



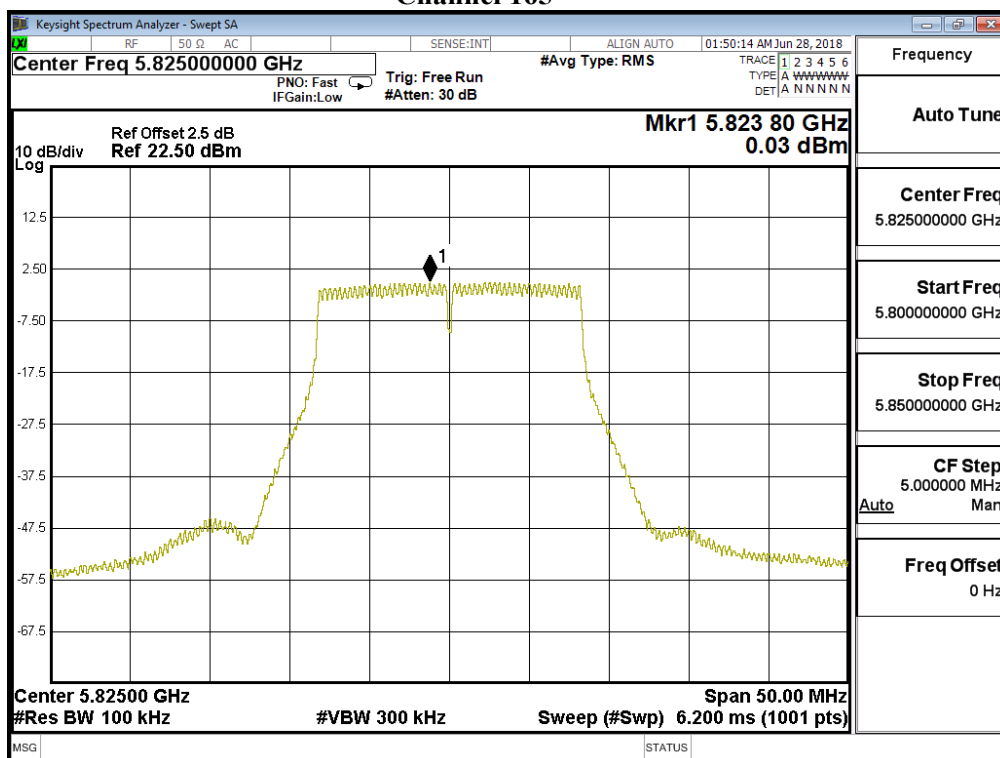
Channel 149



Channel 157



Channel 165



Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 2: Transmit (802.11n-20BW 28.8Mbps) (Antenna No.18)

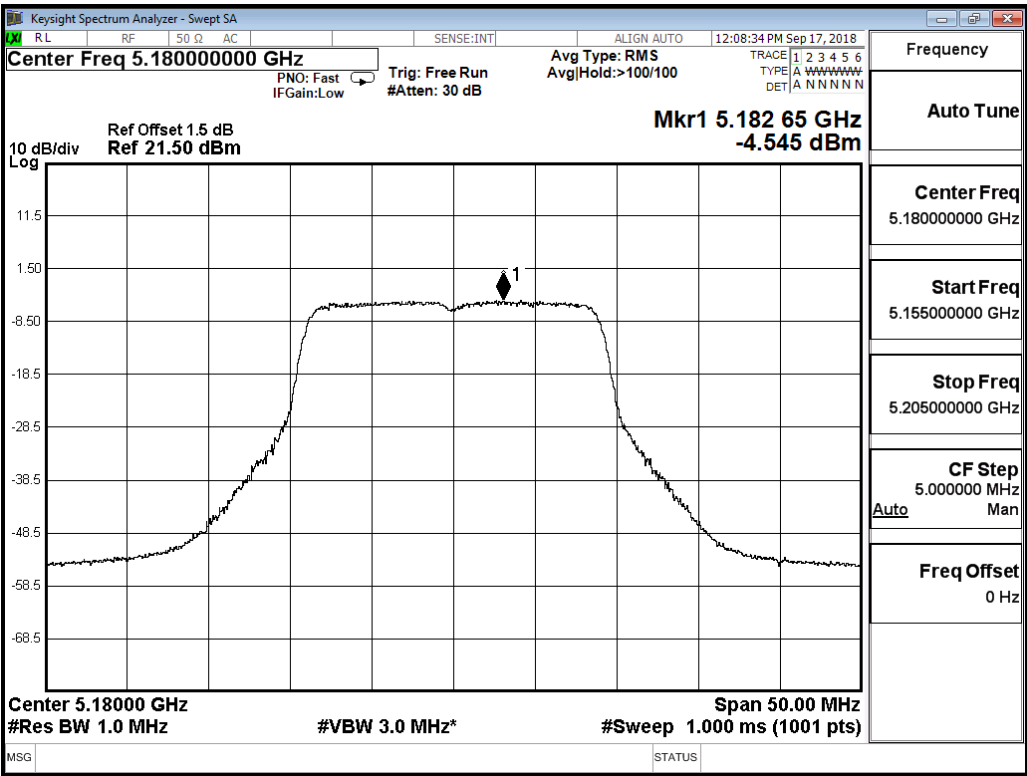
Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	Total PSD (dBm)	Required Limit (dBm)	Result
36	5180	A	-4.55	1.48	2	Pass
		B	-4.46	1.56	2	Pass
		C	-4.23	1.79	2	Pass
		D	-5.25	0.77	2	Pass
44	5220	A	-5.04	0.98	2	Pass
		B	-5.12	0.90	2	Pass
		C	-4.61	1.41	2	Pass
		D	-5.66	0.36	2	Pass
48	5240	A	-4.99	1.03	2	Pass
		B	-5.25	0.77	2	Pass
		C	-4.46	1.56	2	Pass
		D	-5.57	0.45	2	Pass
52	5260	A	-5.58	0.44	2	Pass
		B	-5.51	0.51	2	Pass
		C	-4.61	1.41	2	Pass
		D	-6.01	0.01	2	Pass
60	5300	A	-5.57	0.45	2	Pass
		B	-4.95	1.07	2	Pass
		C	-4.15	1.87	2	Pass
		D	-5.84	0.18	2	Pass
64	5320	A	-6.00	0.02	2	Pass
		B	-4.91	1.11	2	Pass
		C	-4.20	1.82	2	Pass
		D	-5.62	0.40	2	Pass
100	5500	A	-6.66	-0.64	2	Pass
		B	-4.97	1.05	2	Pass
		C	-4.32	1.70	2	Pass

		D	-4.92	1.10	2	Pass
116	5580	A	-7.62	-1.60	2	Pass
		B	-5.02	1.00	2	Pass
		C	-4.43	1.59	2	Pass
		D	-4.61	1.41	2	Pass
140	5700	A	-7.58	-1.56	2	Pass
		B	-4.19	1.83	2	Pass
		C	-4.50	1.52	2	Pass
		D	-4.91	1.11	2	Pass

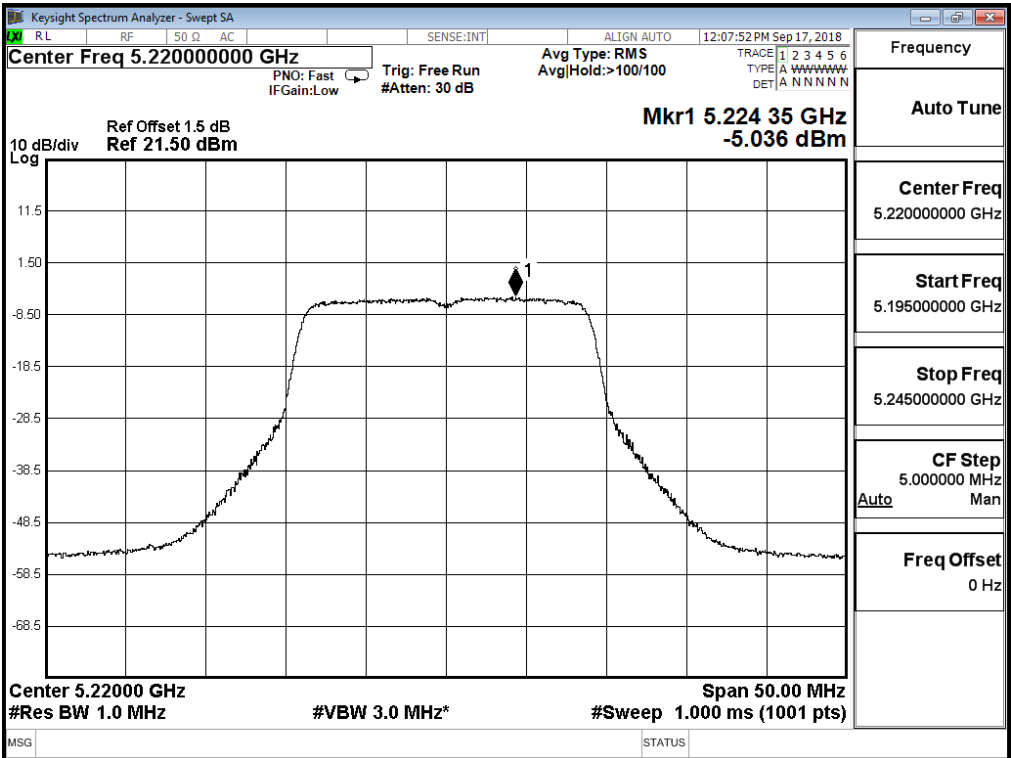
Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	BWCF (dB)	Total PSD (dBm) ₁	Required Limit (dBm)	Result
149	5745	A	-1.77	6.98	11.23	<21	Pass
		B	-2.73	6.98	10.27	<21	Pass
		C	-3.28	6.98	9.72	<21	Pass
		D	0.61	6.98	13.61	<21	Pass
157	5785	A	-1.50	6.98	11.50	<21	Pass
		B	-2.84	6.98	10.16	<21	Pass
		C	-3.22	6.98	9.78	<21	Pass
		D	0.26	6.98	13.26	<21	Pass
165	5825	A	-1.48	6.98	11.52	<21	Pass
		B	-3.32	6.98	9.68	<21	Pass
		C	-3.75	6.98	9.25	<21	Pass
		D	0.53	6.98	13.53	<21	Pass

Note 1: The quantity $10 \cdot \log 4$ (four antennas) is added to the spectrum peak value according to document 662911 D01.

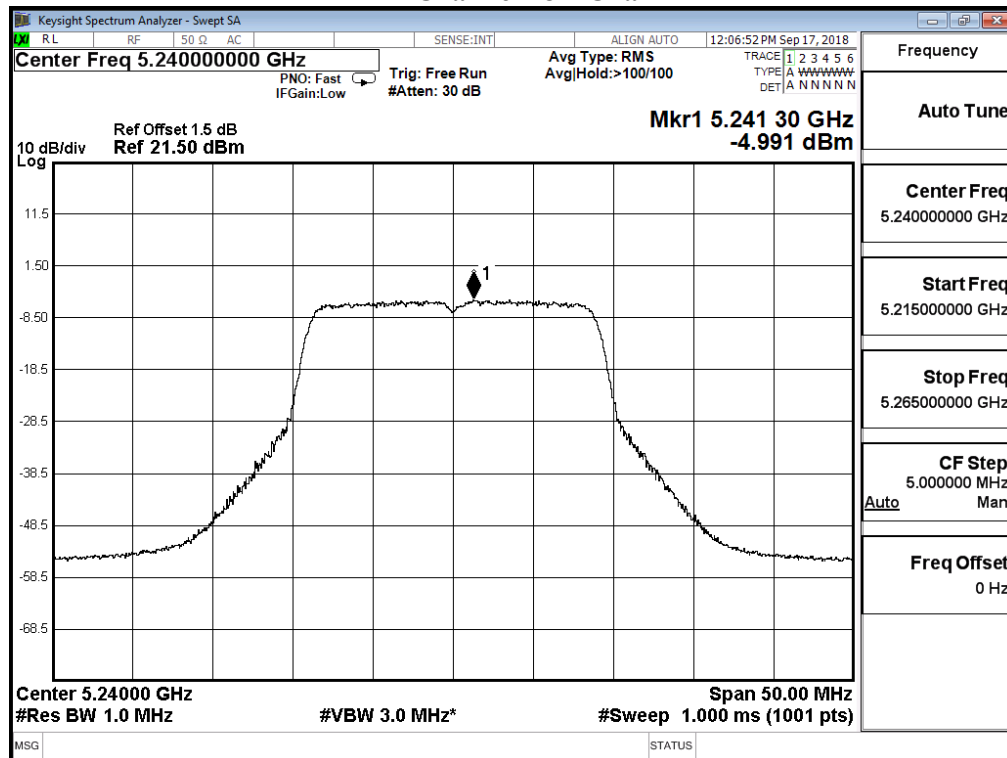
Channel 36 – Chain A



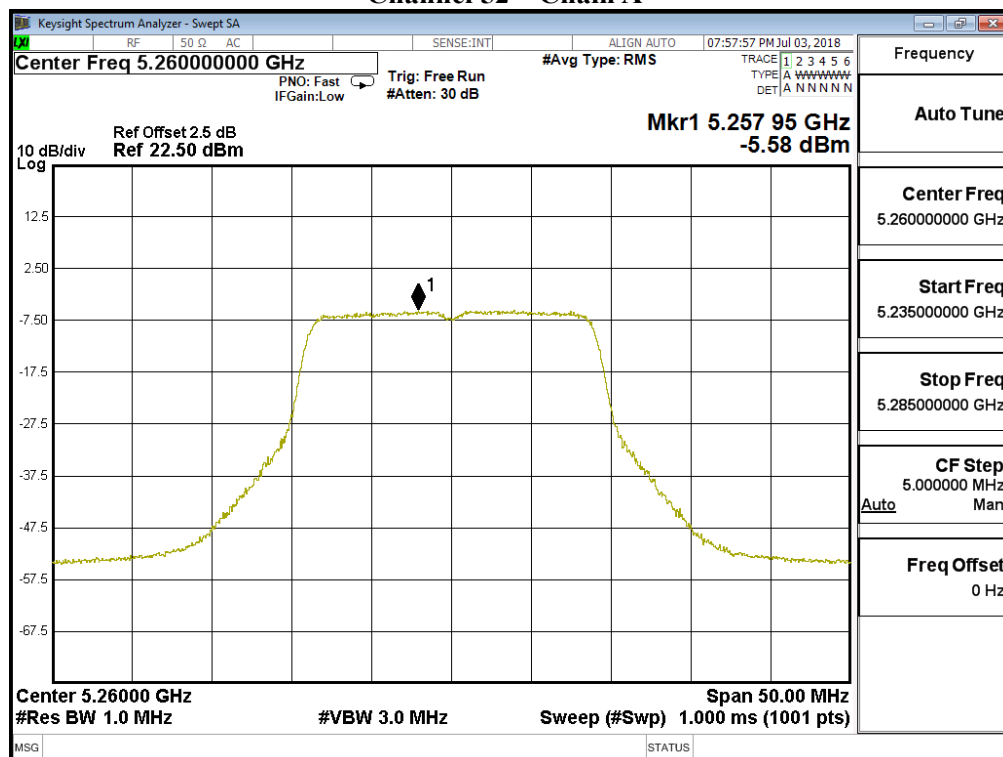
Channel 44 – Chain A



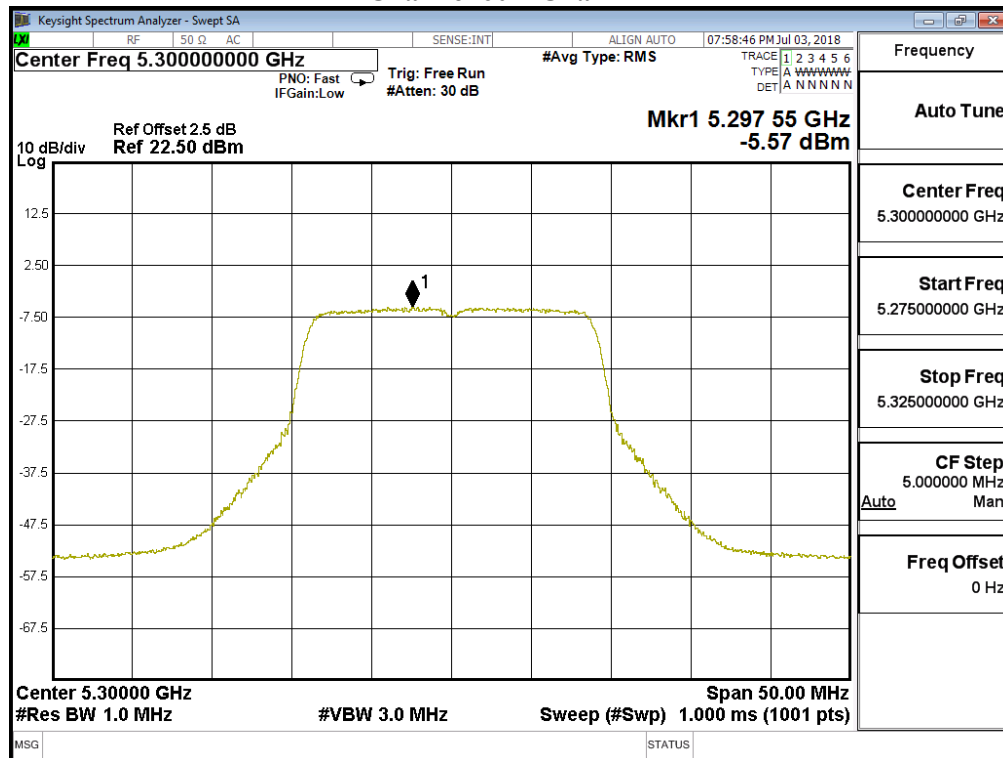
Channel 48 – Chain A



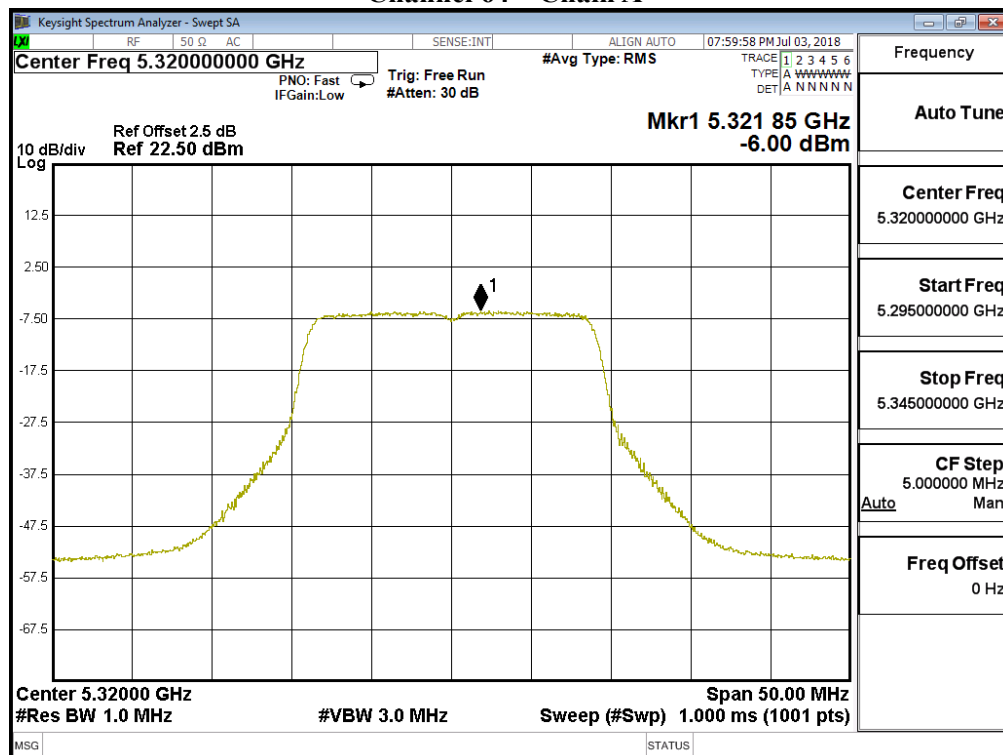
Channel 52 – Chain A



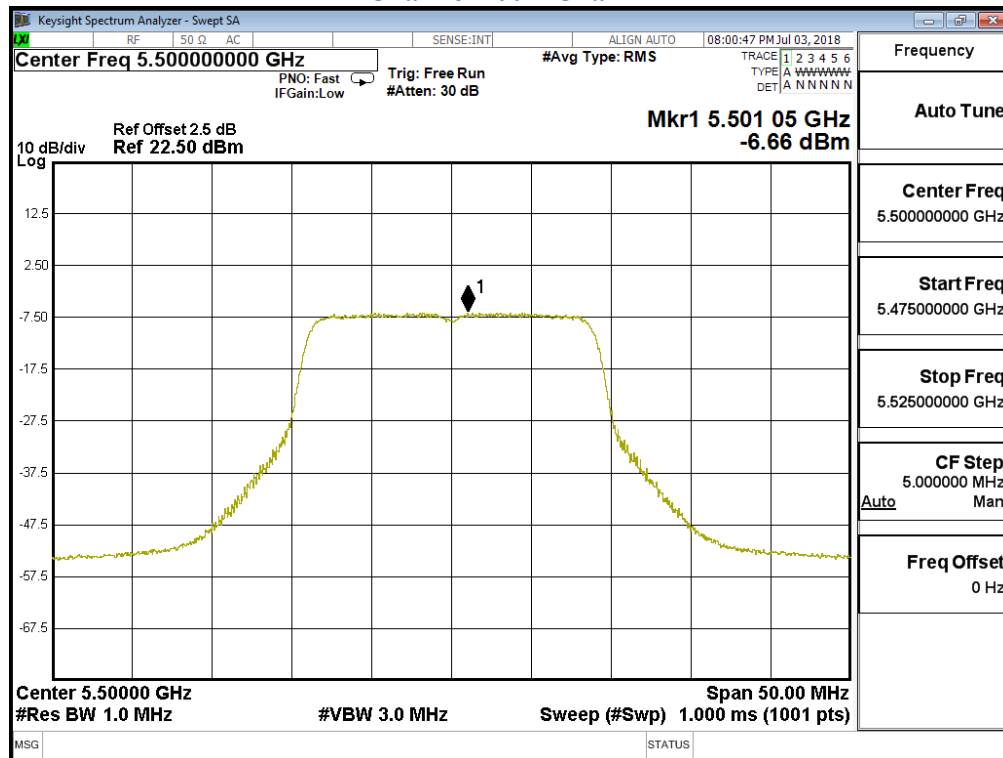
Channel 60 – Chain A



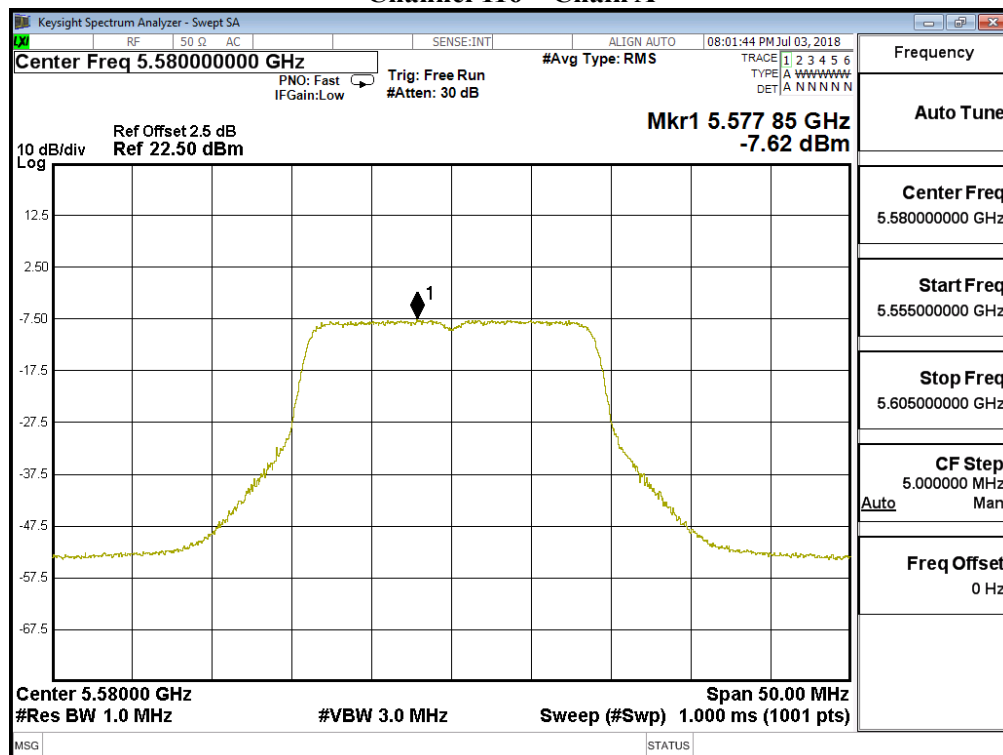
Channel 64 – Chain A



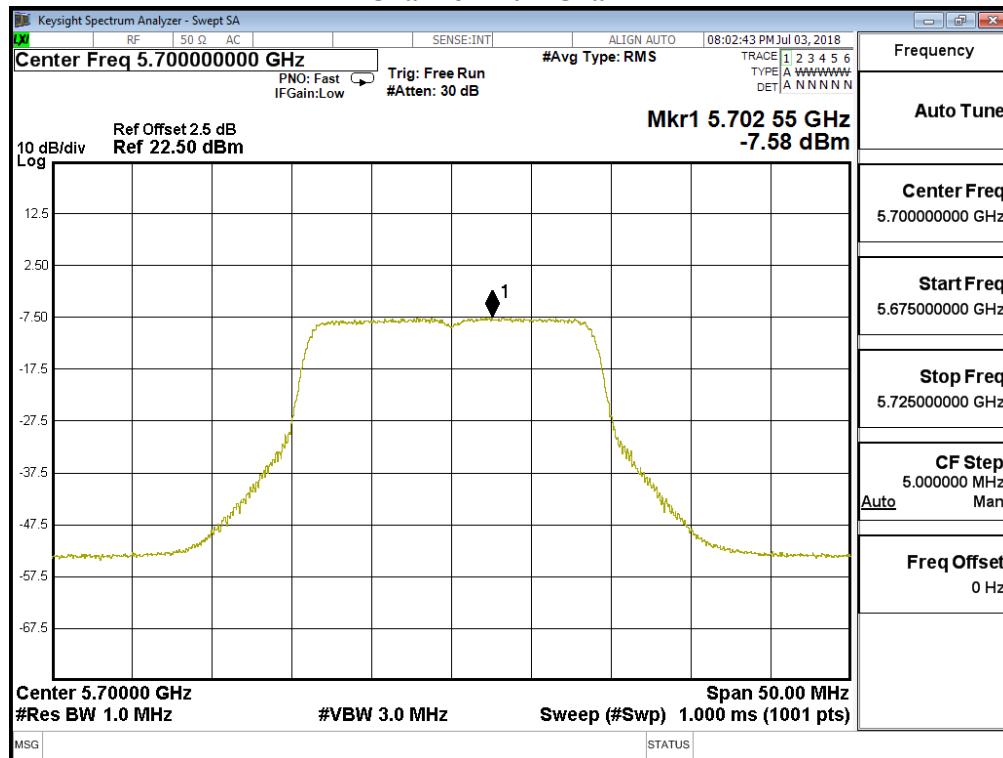
Channel 100 – Chain A



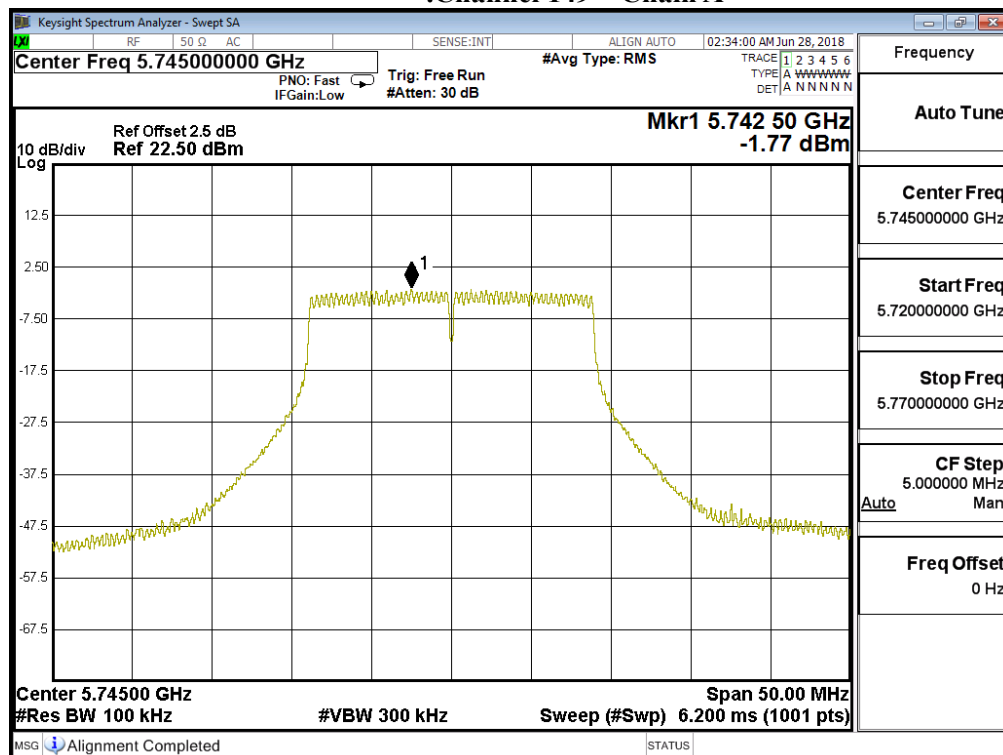
Channel 116 – Chain A



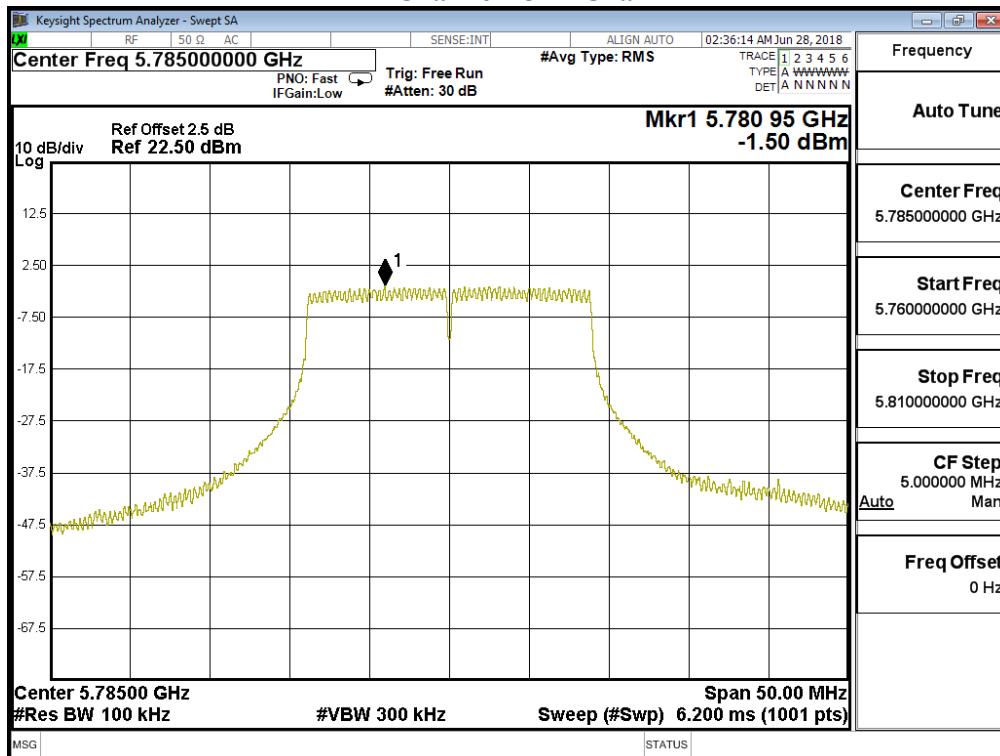
Channel 140 – Chain A



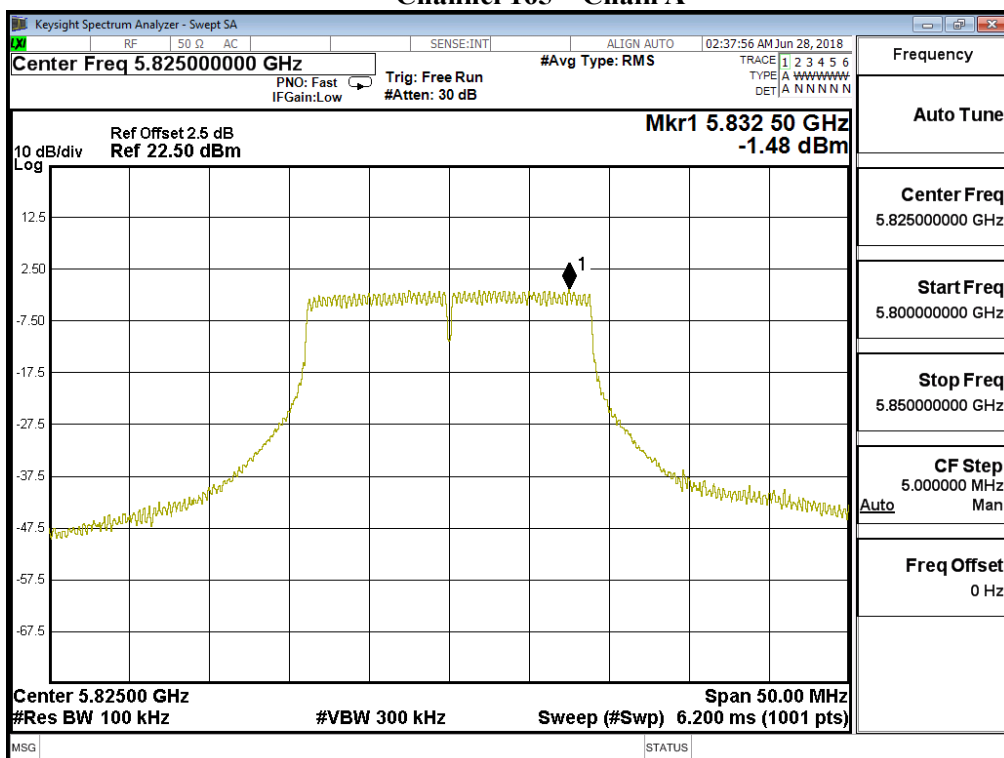
Channel 149 – Chain A



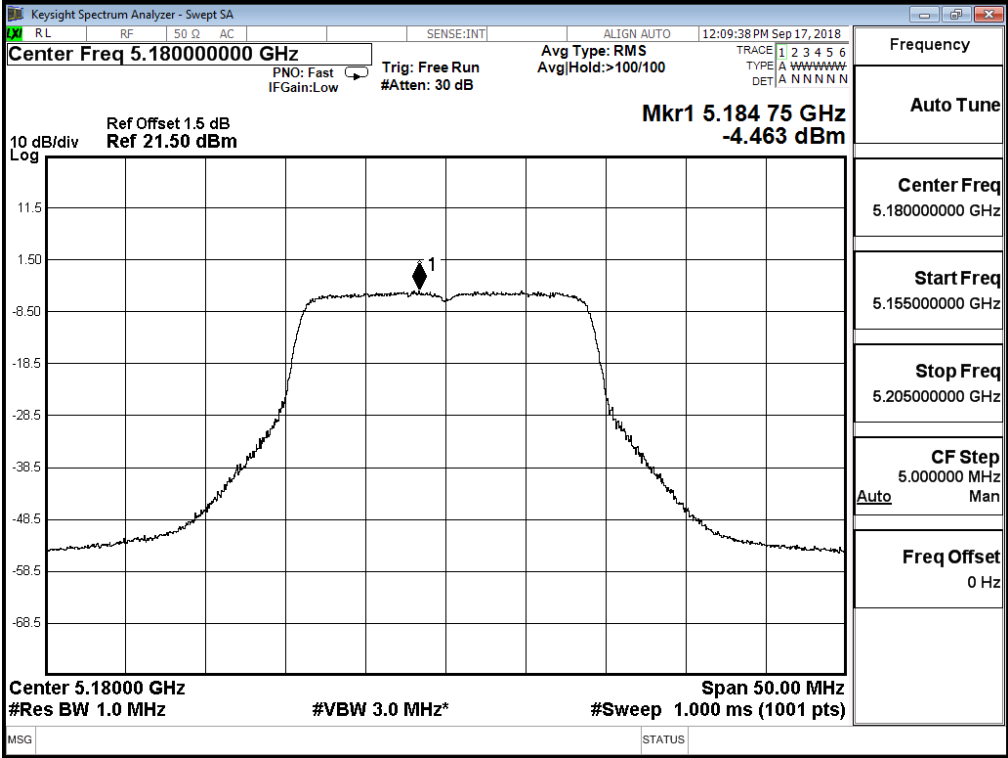
Channel 157 – Chain A



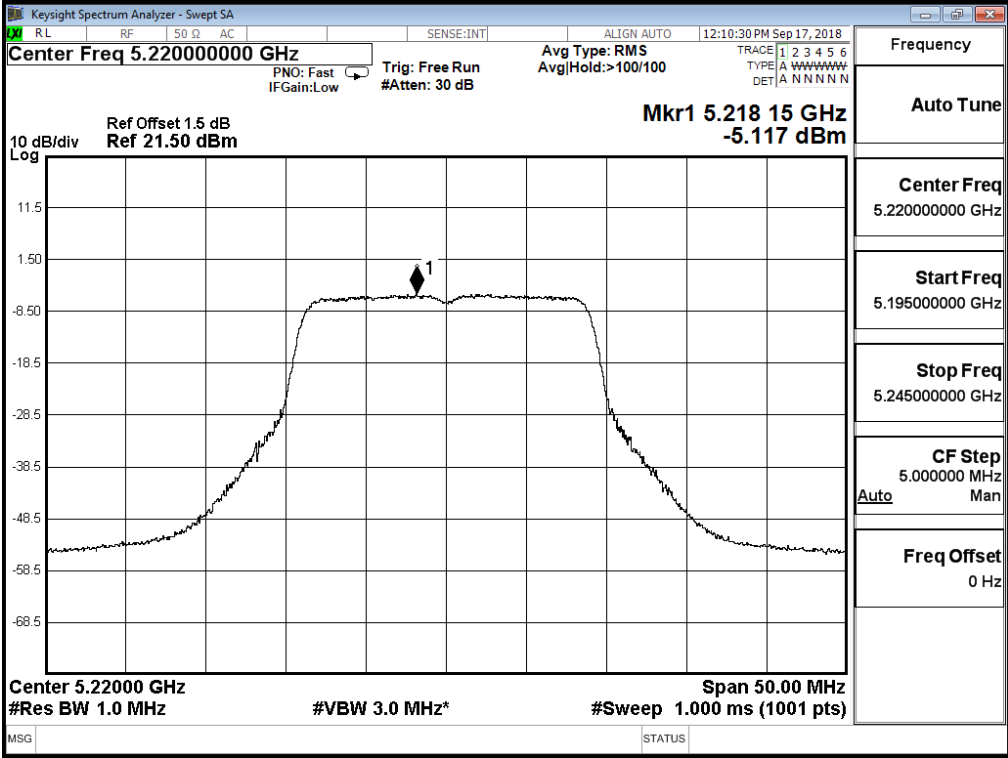
Channel 165 – Chain A



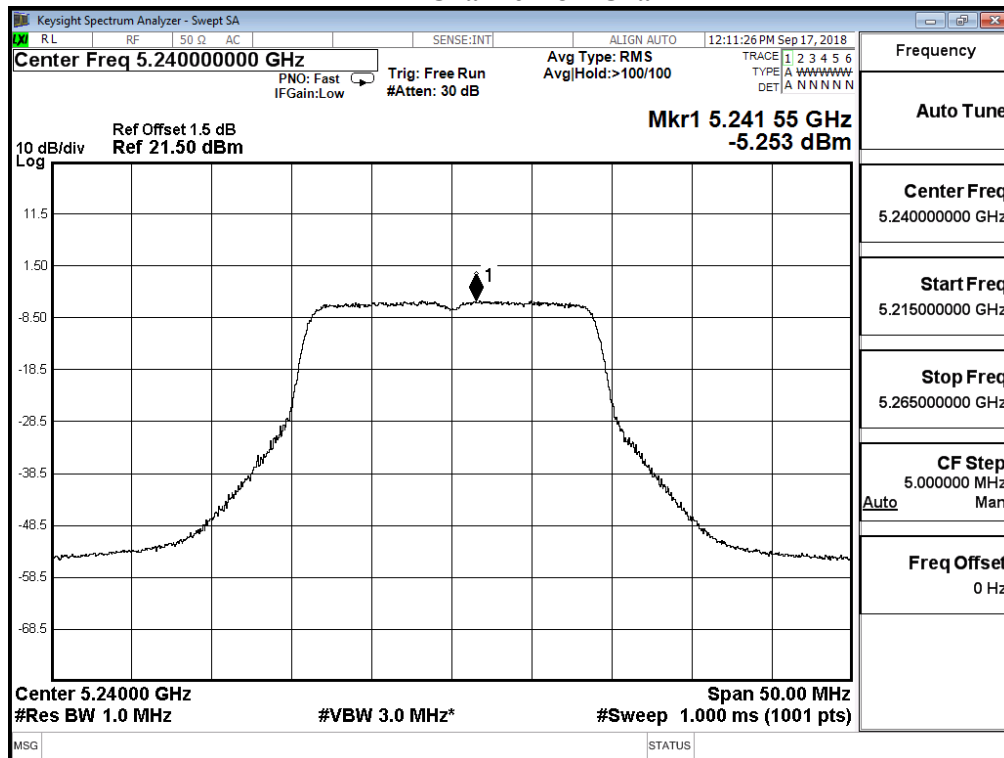
Channel 36 – Chain B



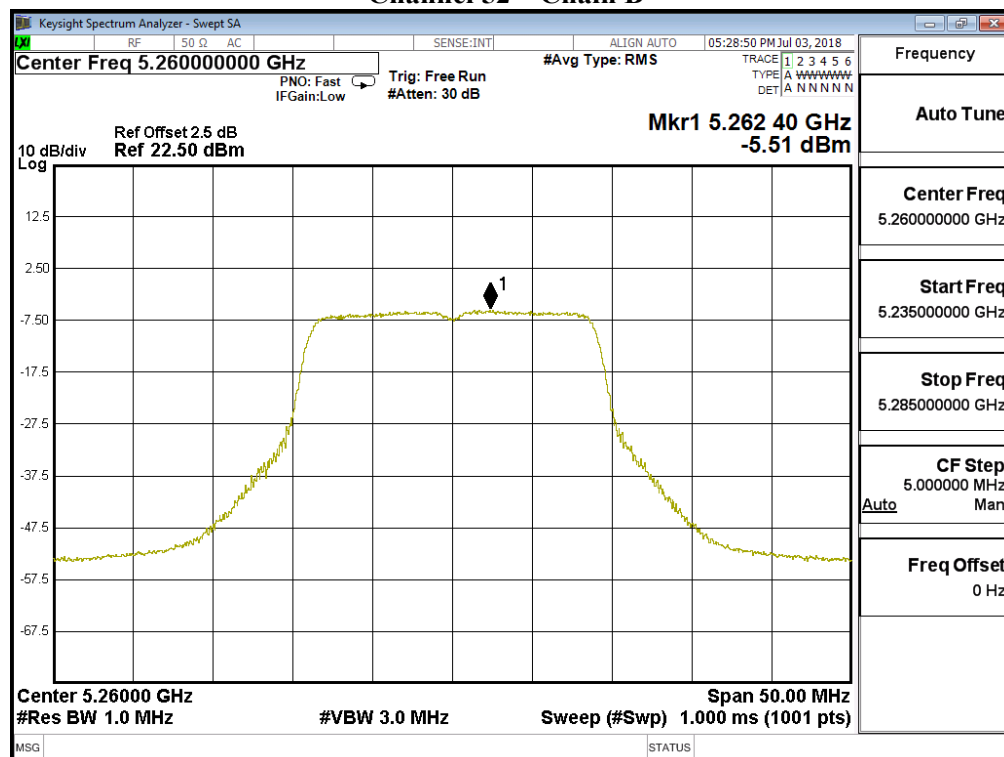
Channel 44 – Chain B



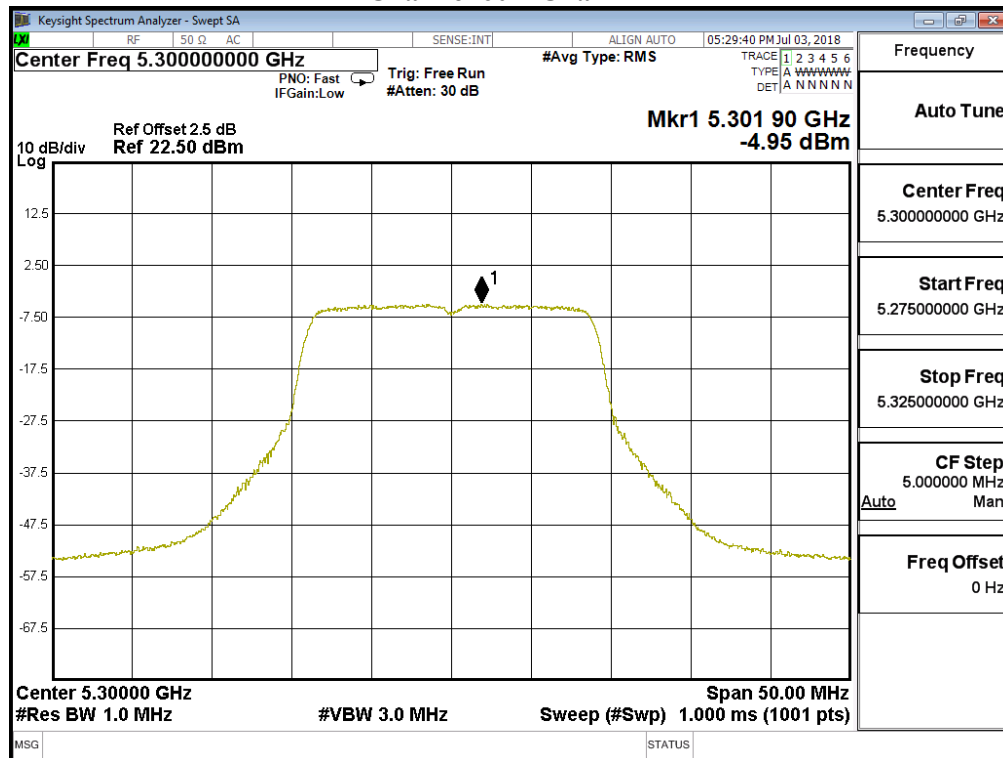
Channel 48 – Chain B



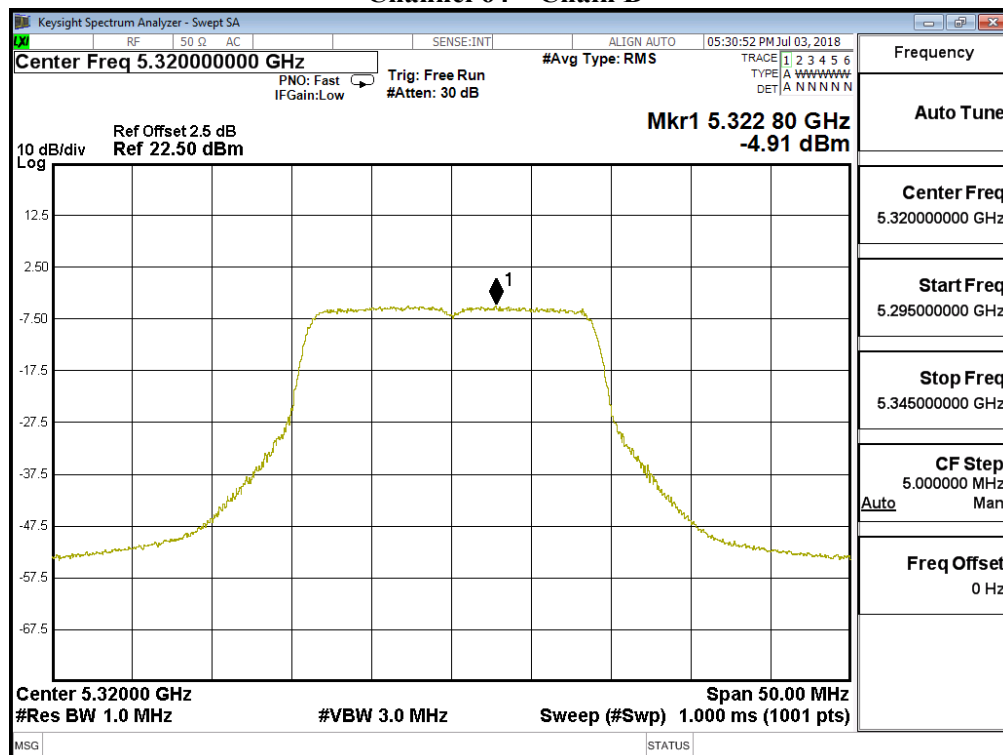
Channel 52 – Chain B



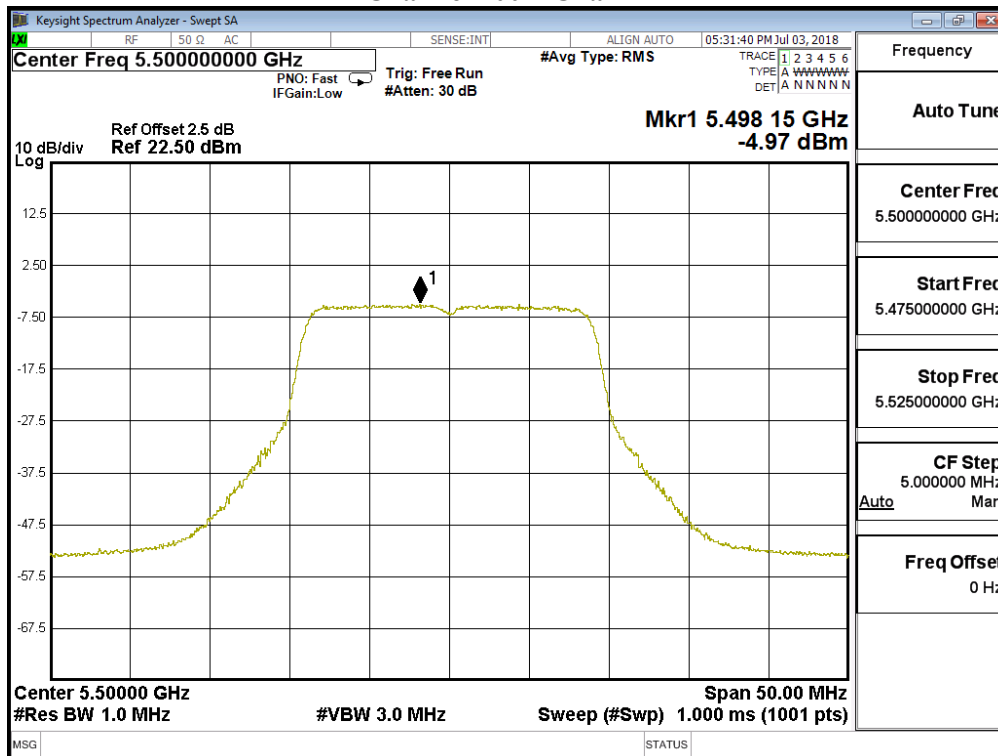
Channel 60 – Chain B



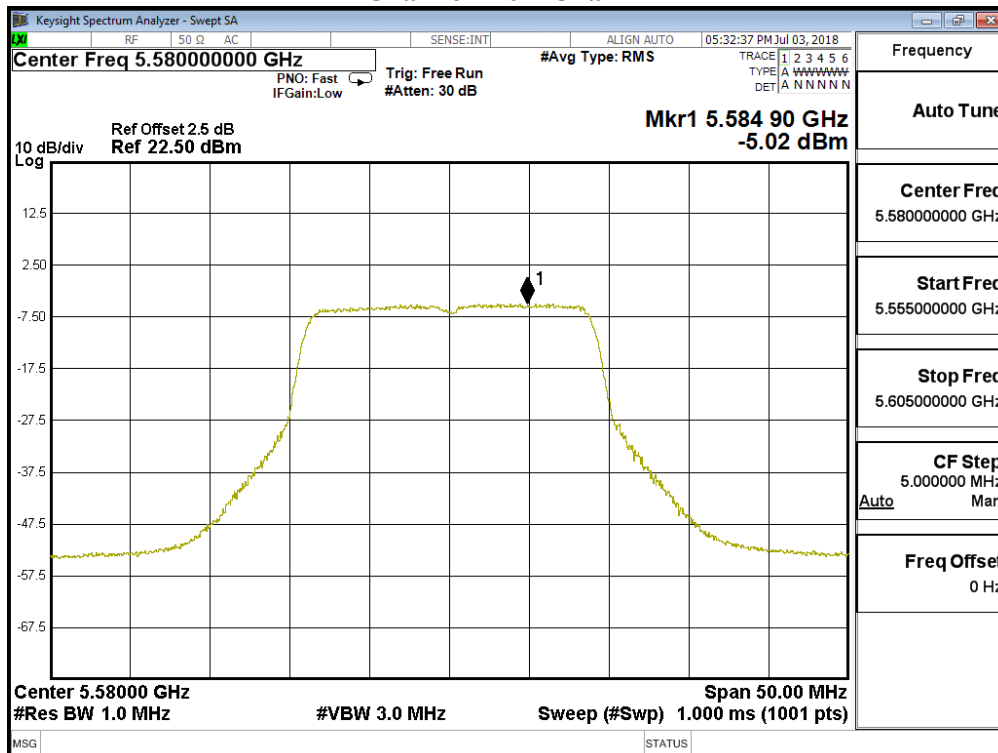
Channel 64 – Chain B



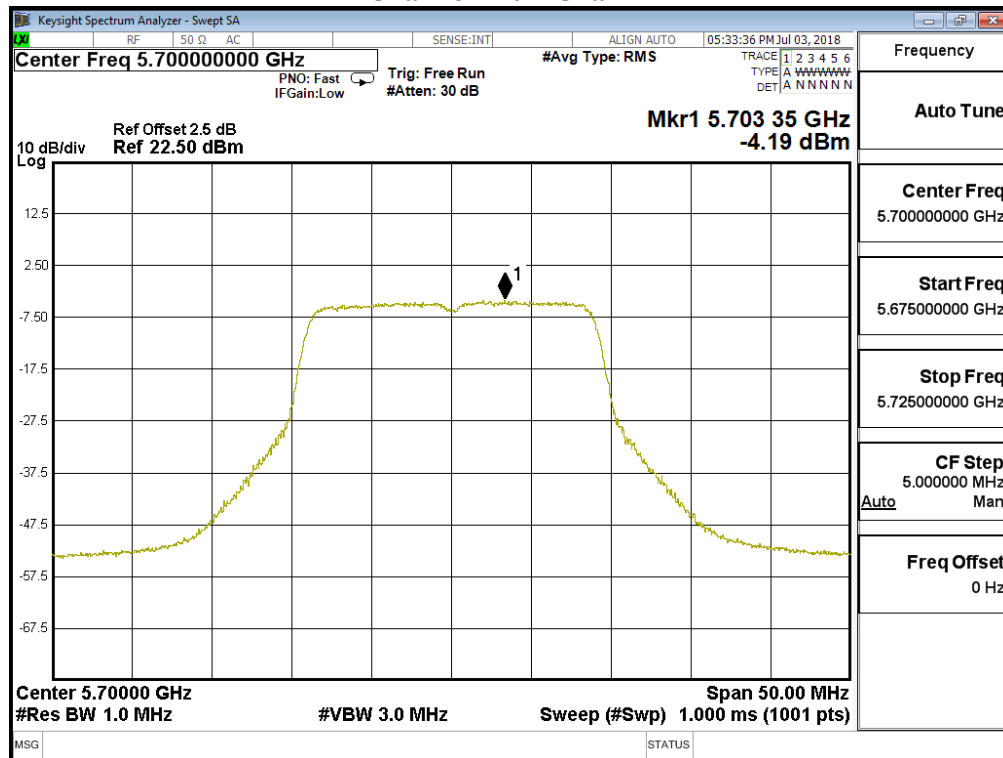
Channel 100 – Chain B



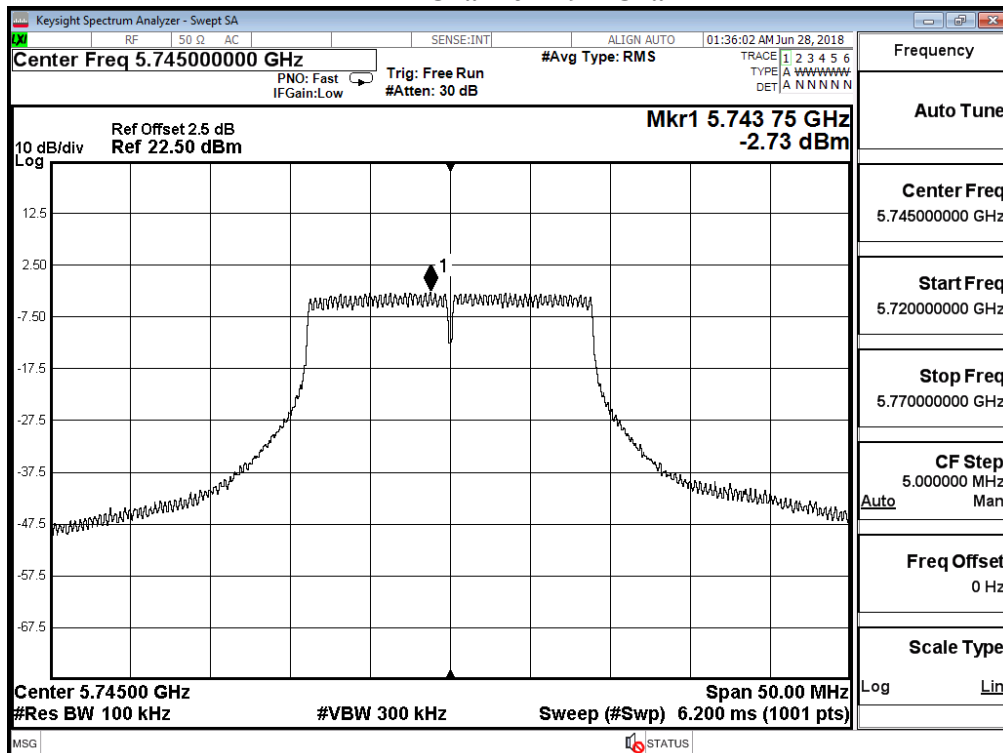
Channel 116 – Chain B



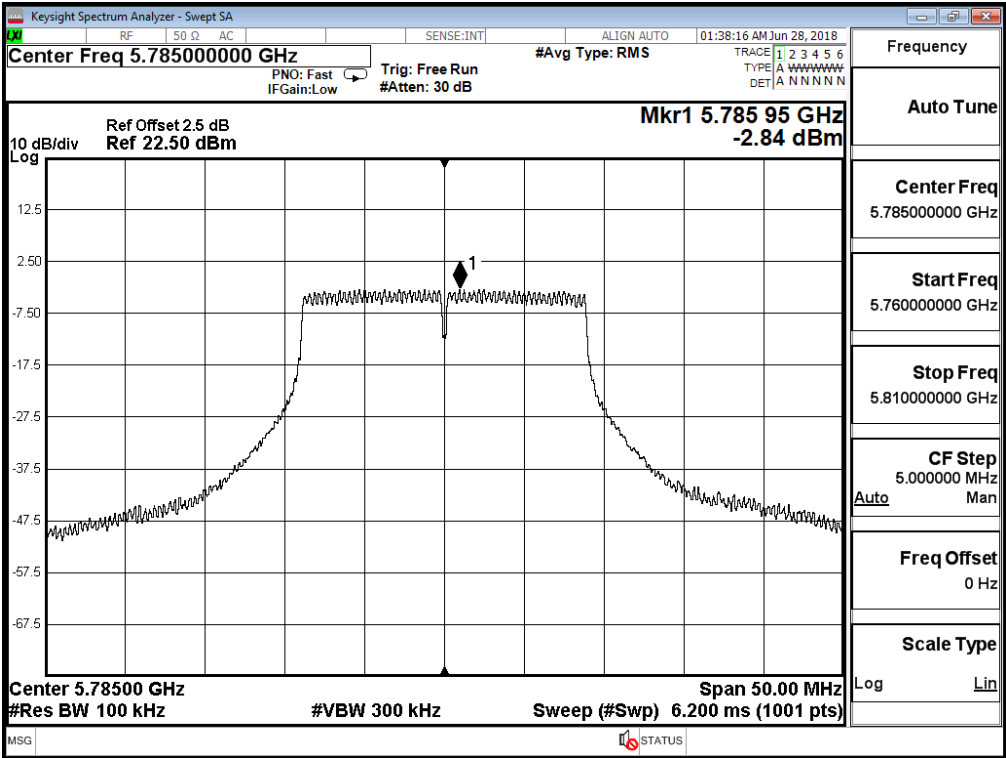
Channel 140 – Chain B



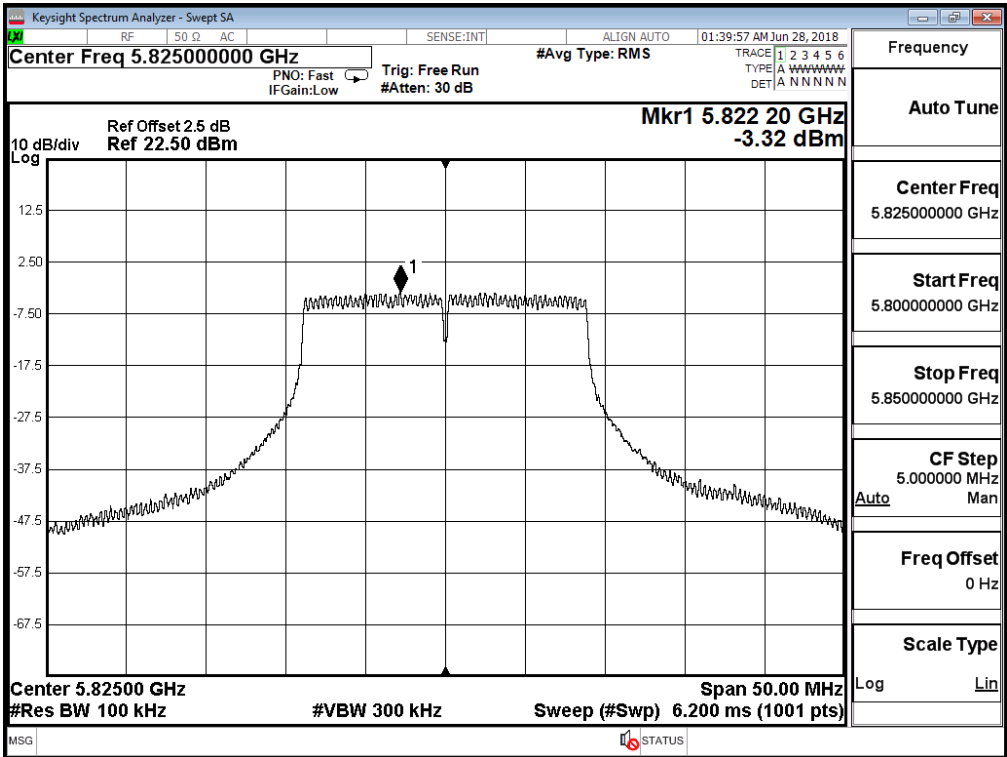
Channel 149 – Chain B



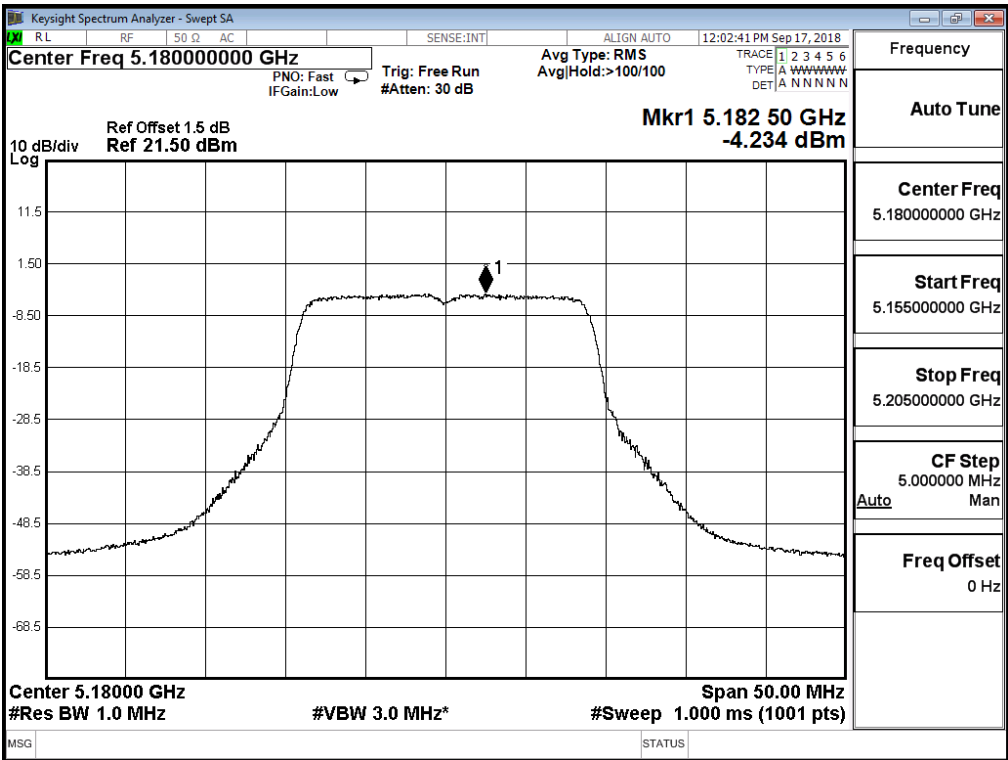
Channel 157 – Chain B



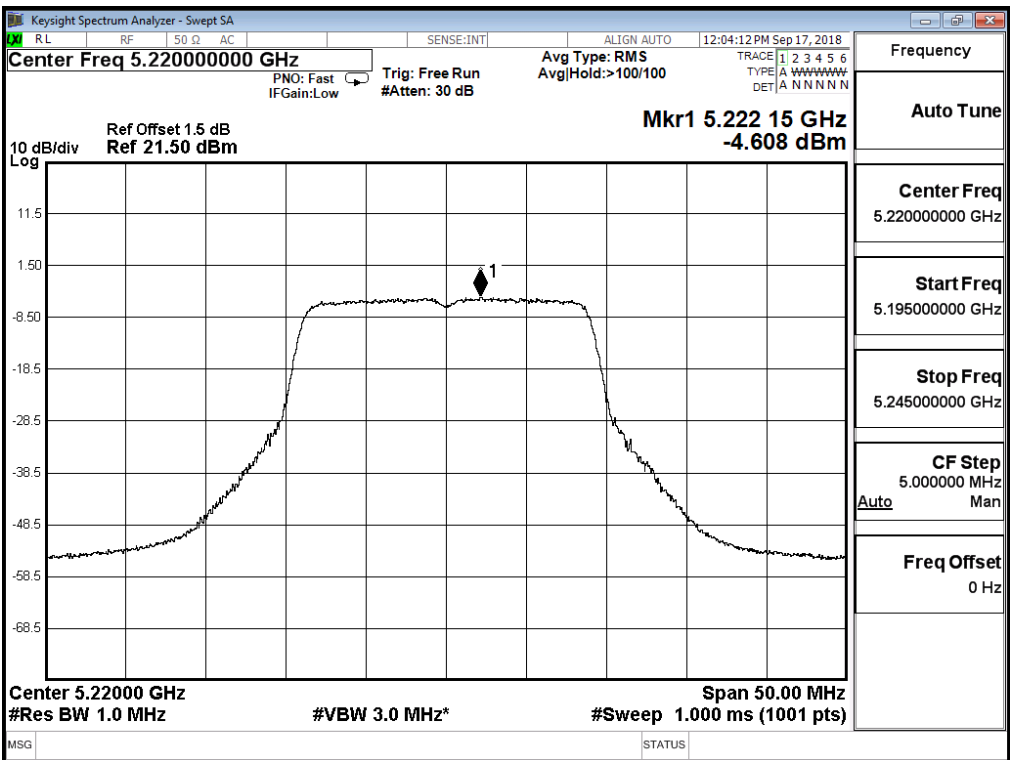
Channel 165 – Chain B



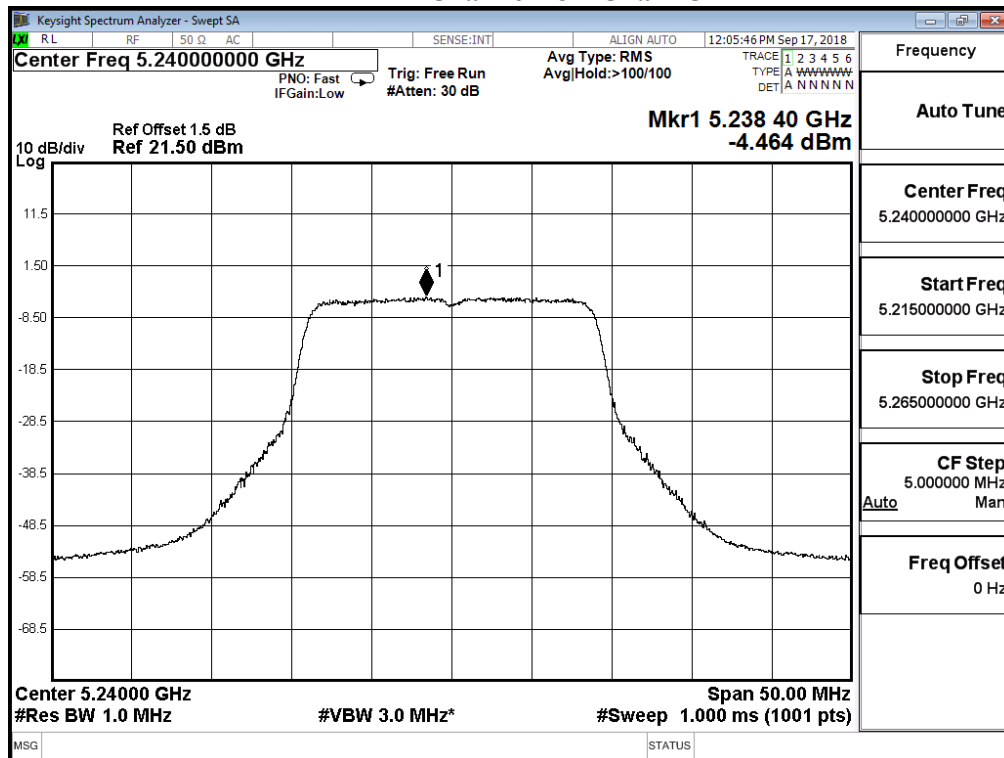
Channel 36 – Chain C



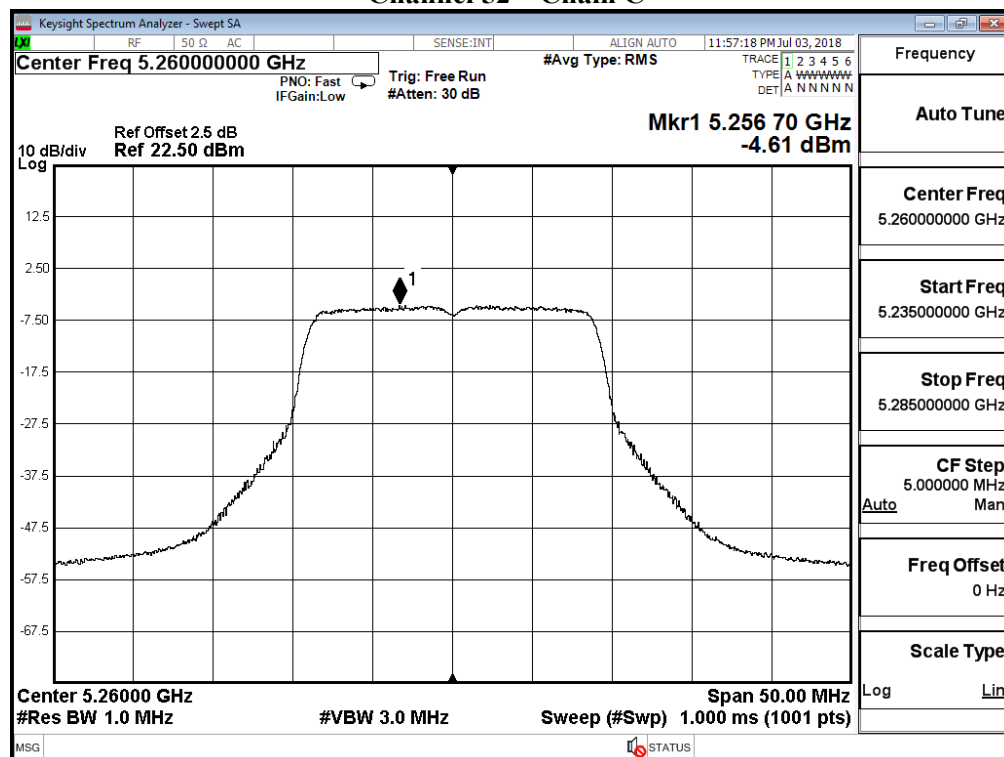
Channel 44 – Chain C



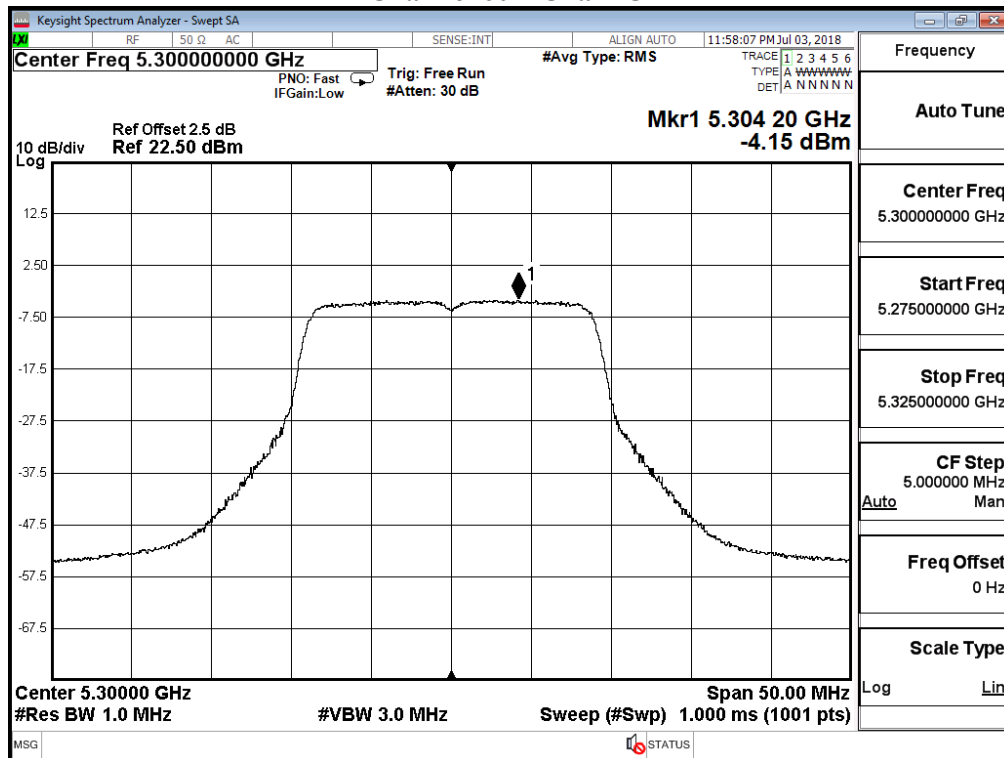
Channel 48 – Chain C



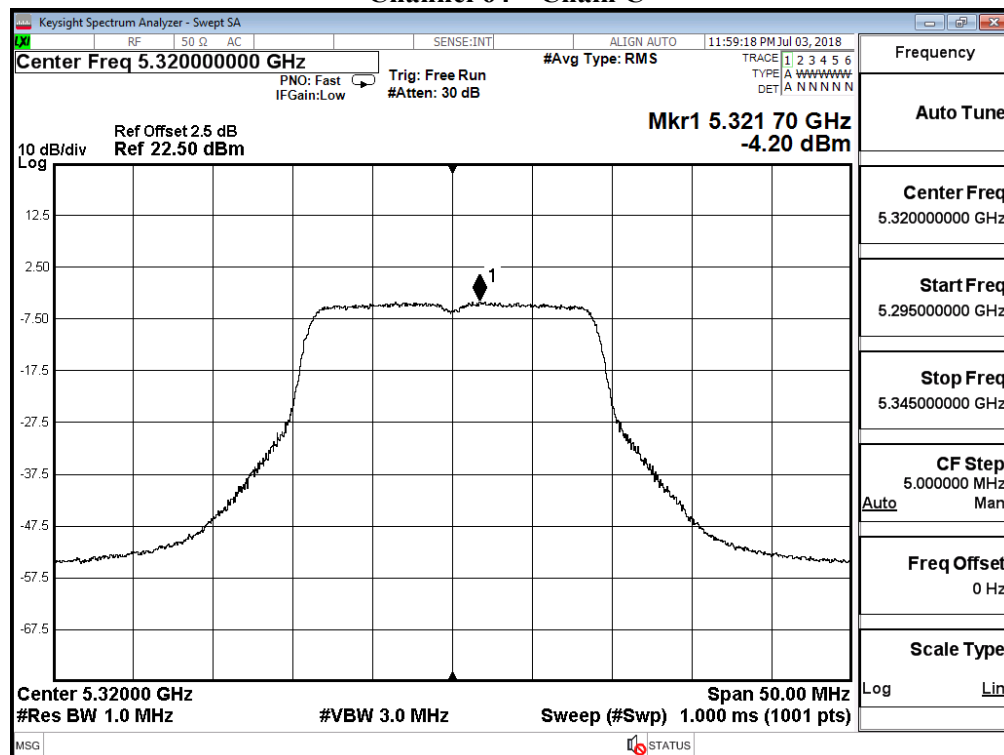
Channel 52 – Chain C



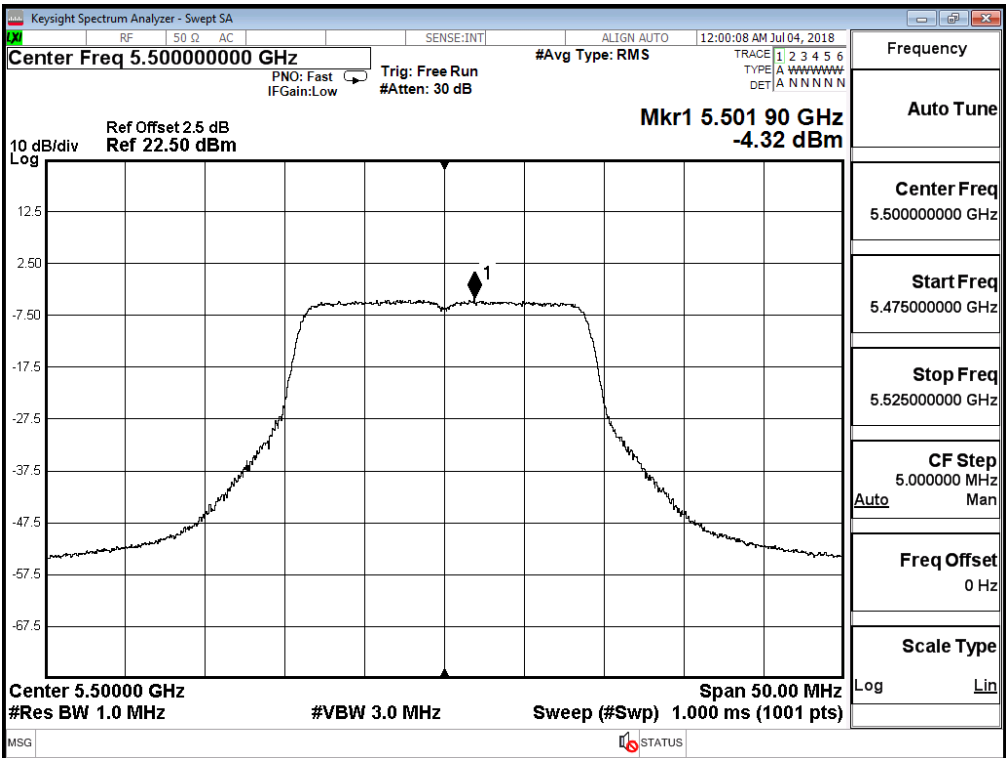
Channel 60 – Chain C



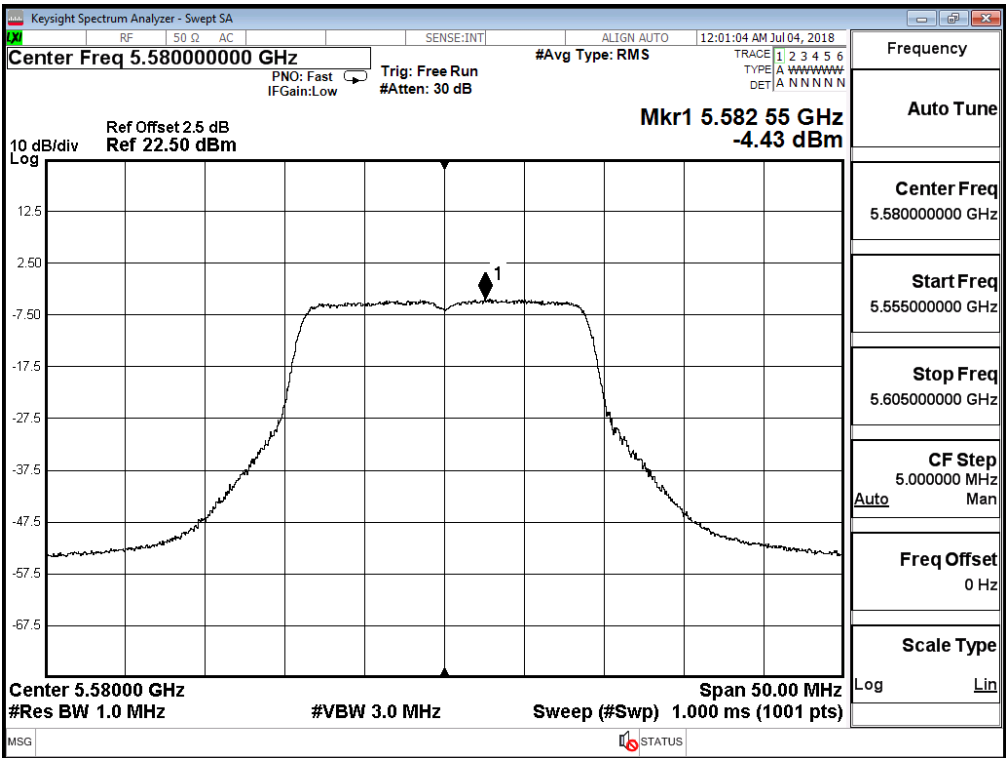
Channel 64 – Chain C



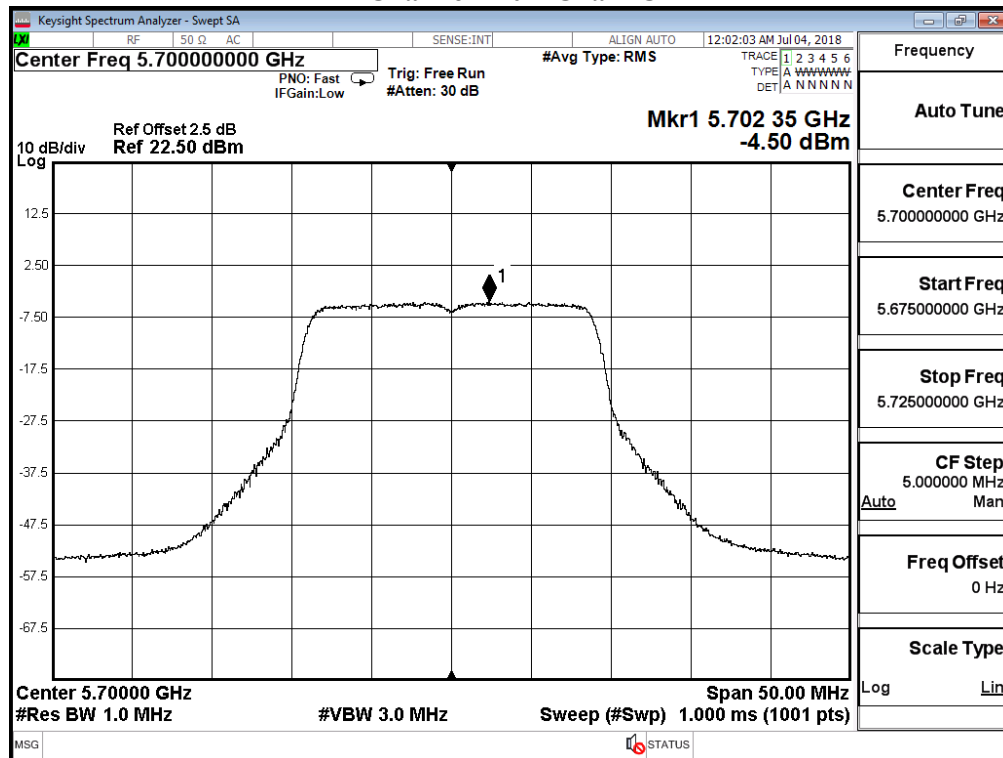
Channel 100 – Chain C



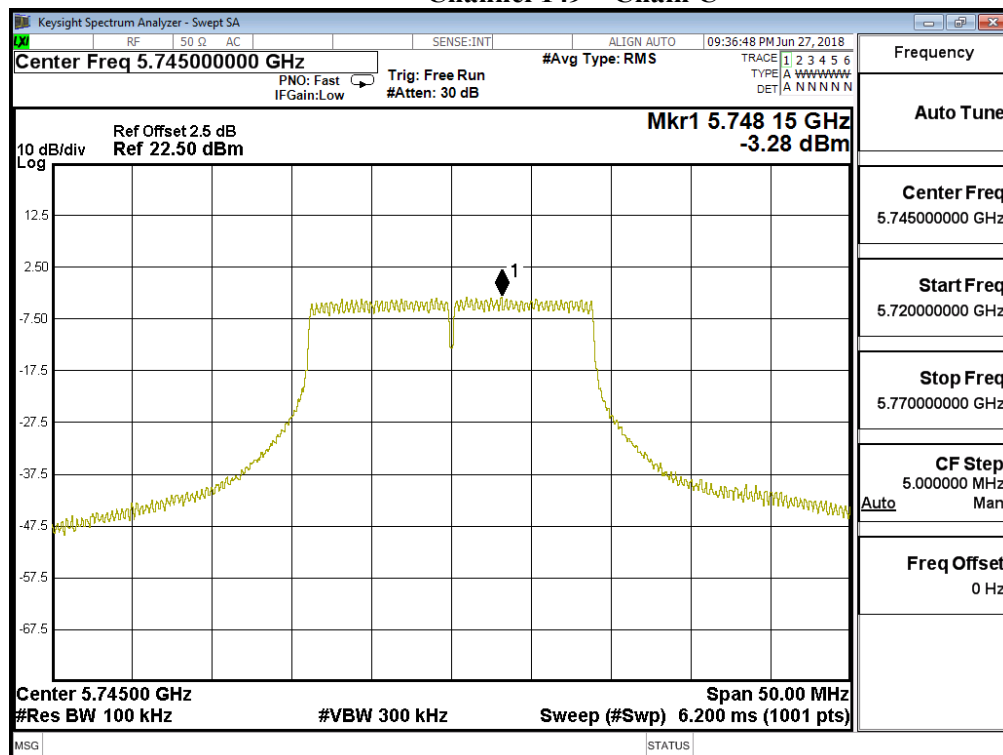
Channel 116 – Chain C



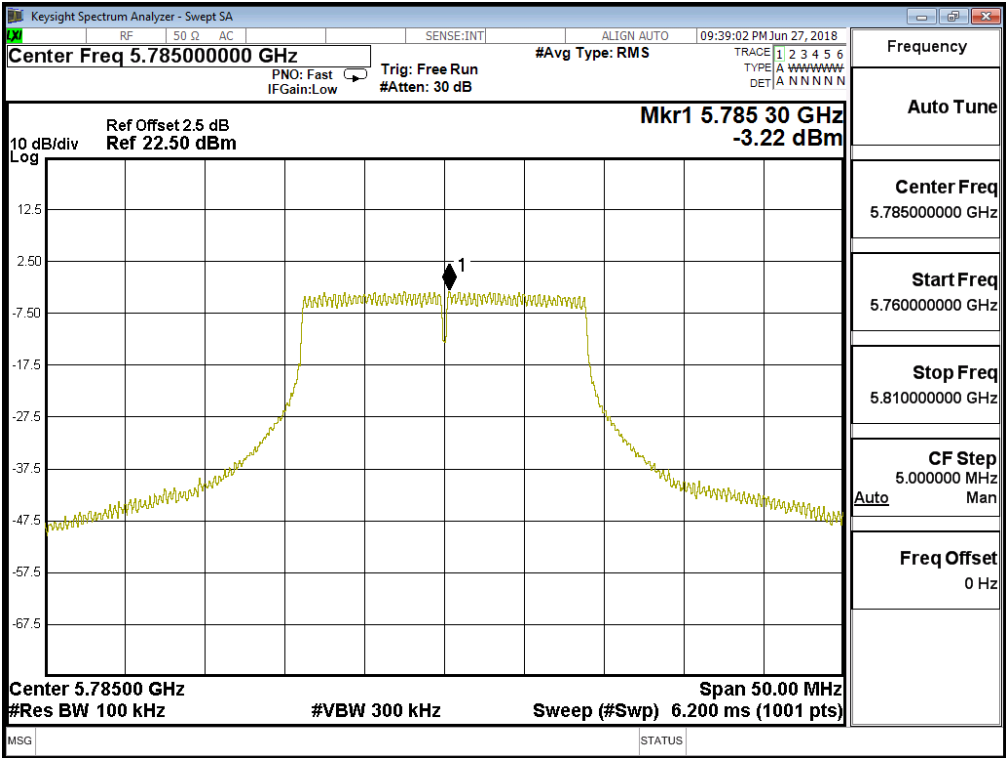
Channel 140 – Chain C



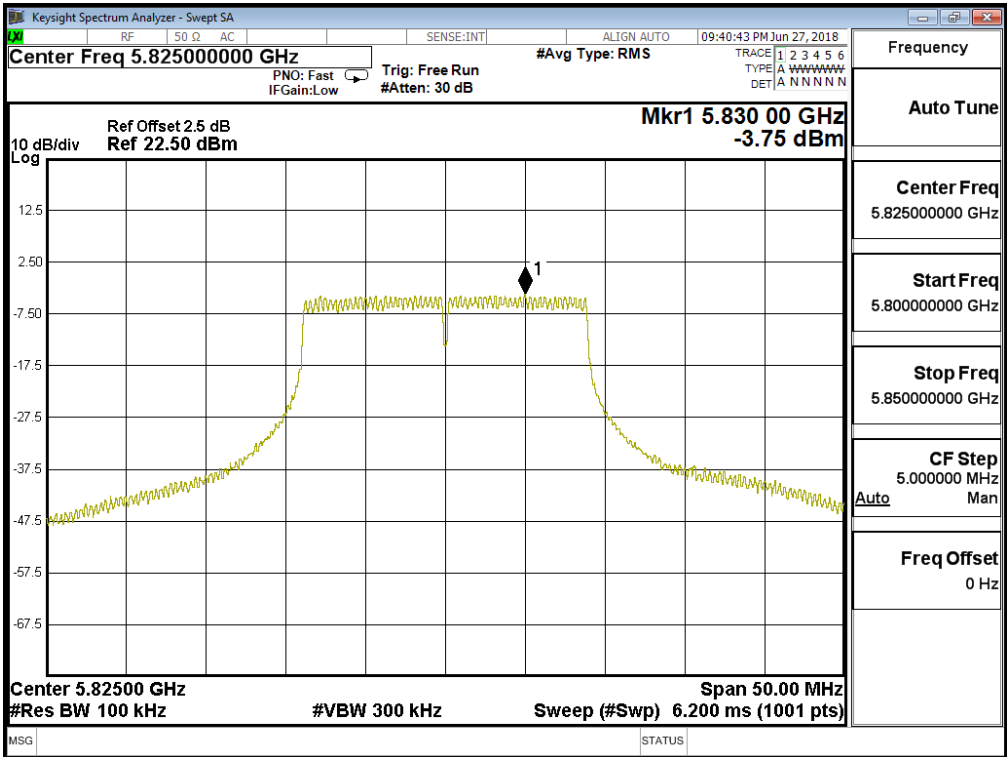
Channel 149 – Chain C



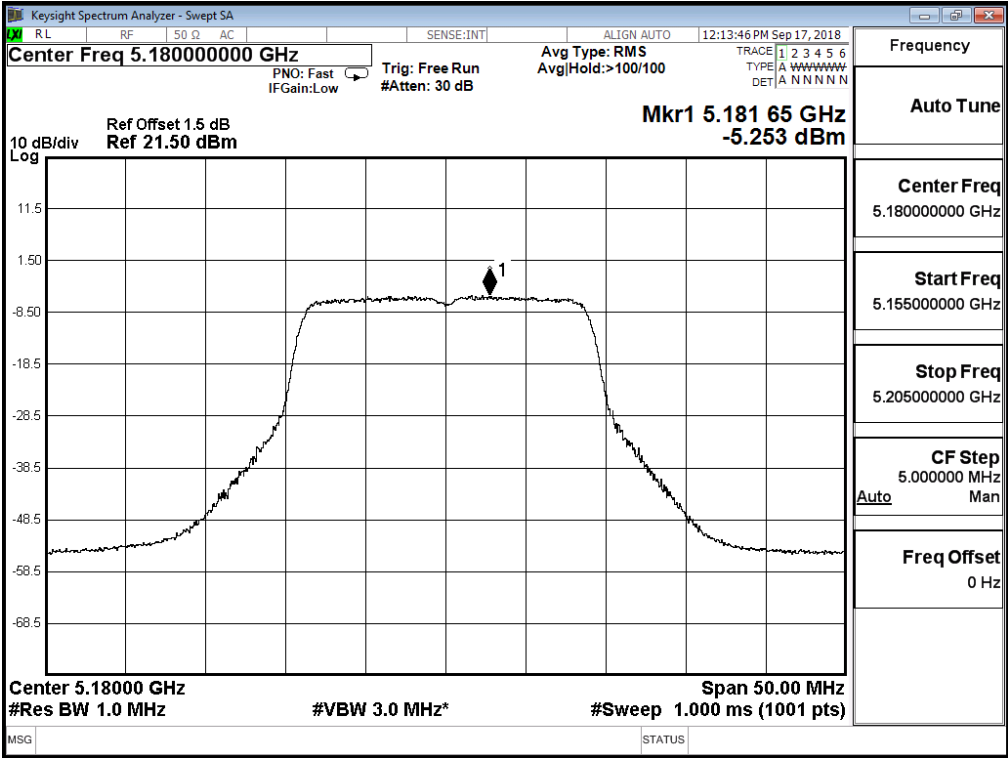
Channel 157 – Chain C



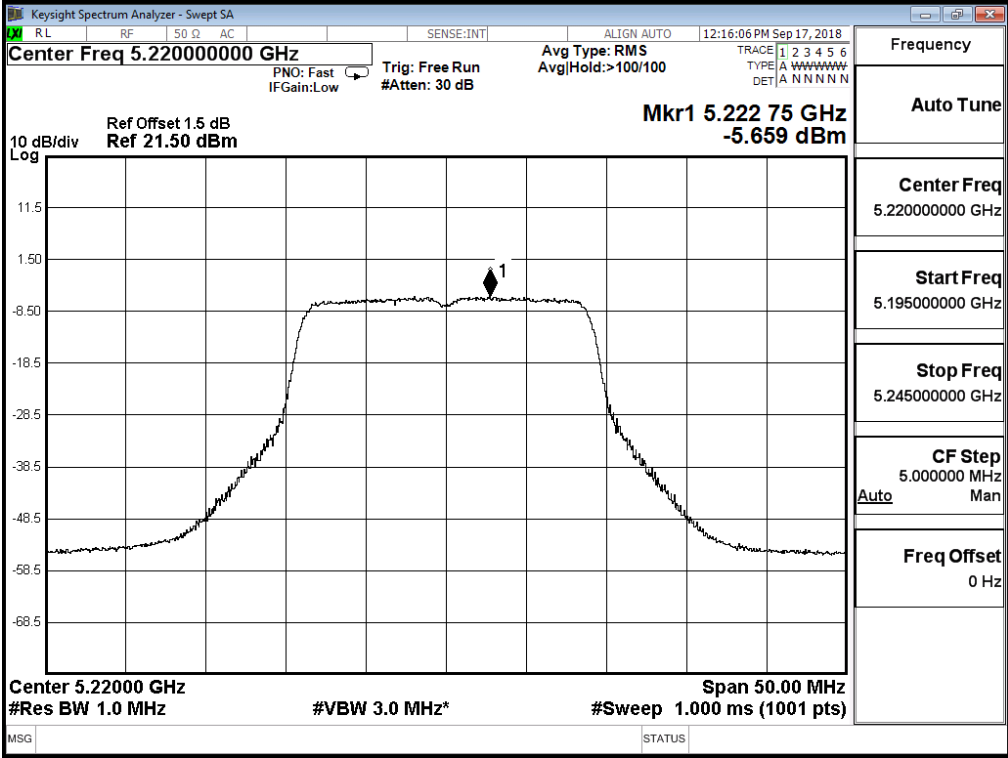
Channel 165 – Chain C



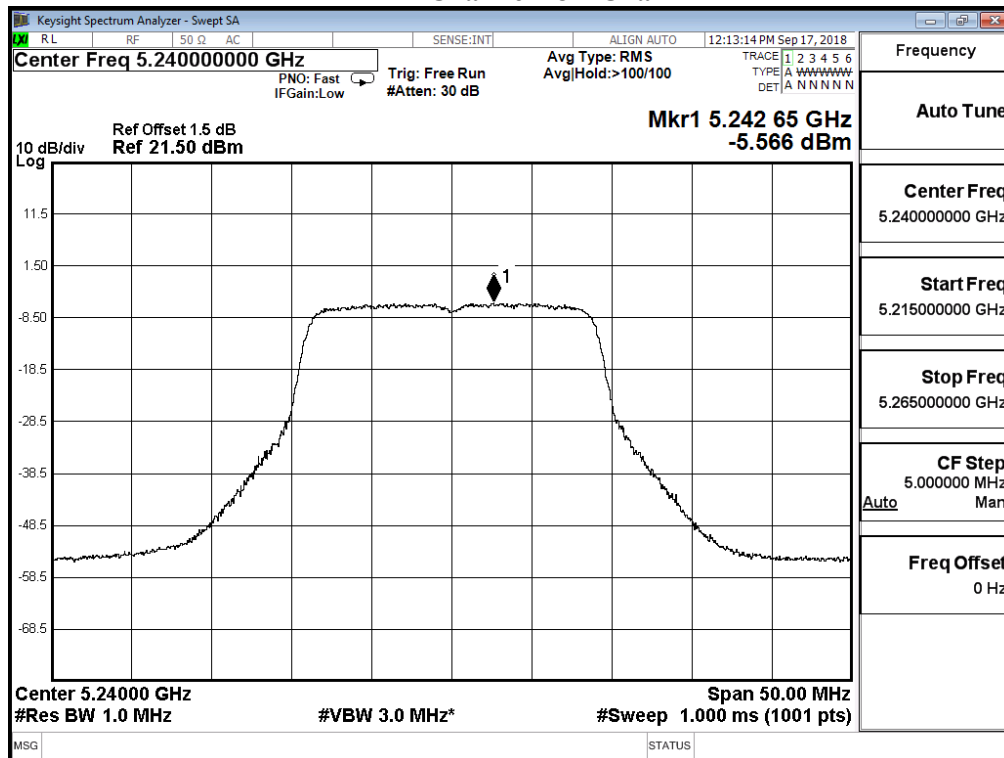
Channel 36 – Chain D



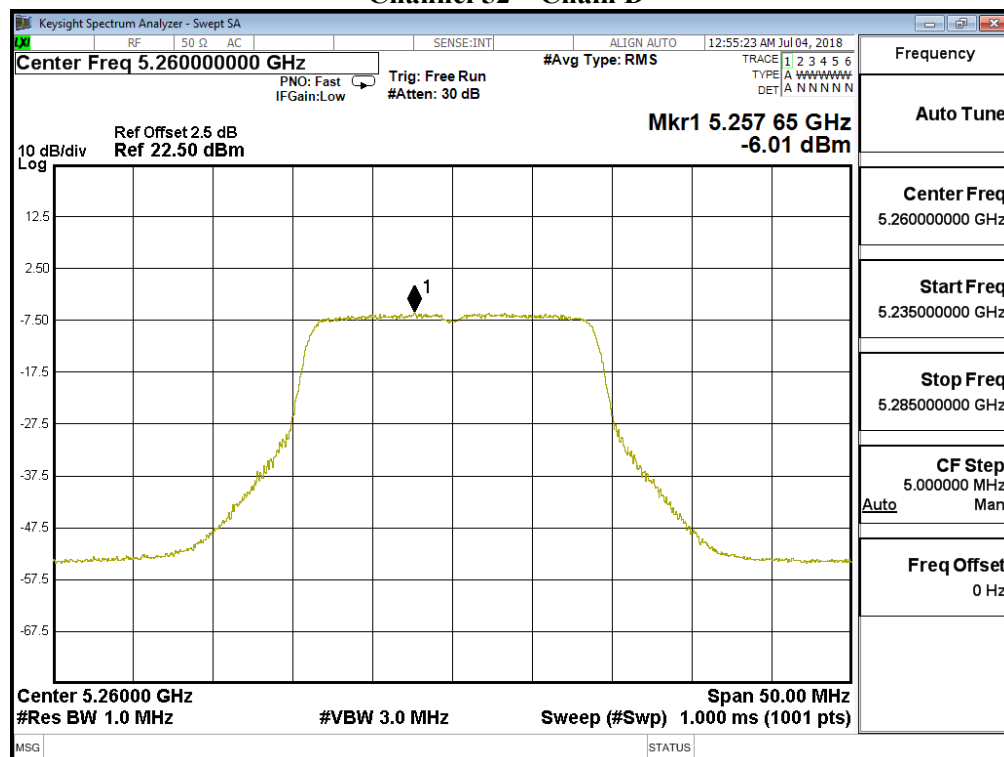
Channel 44 – Chain D



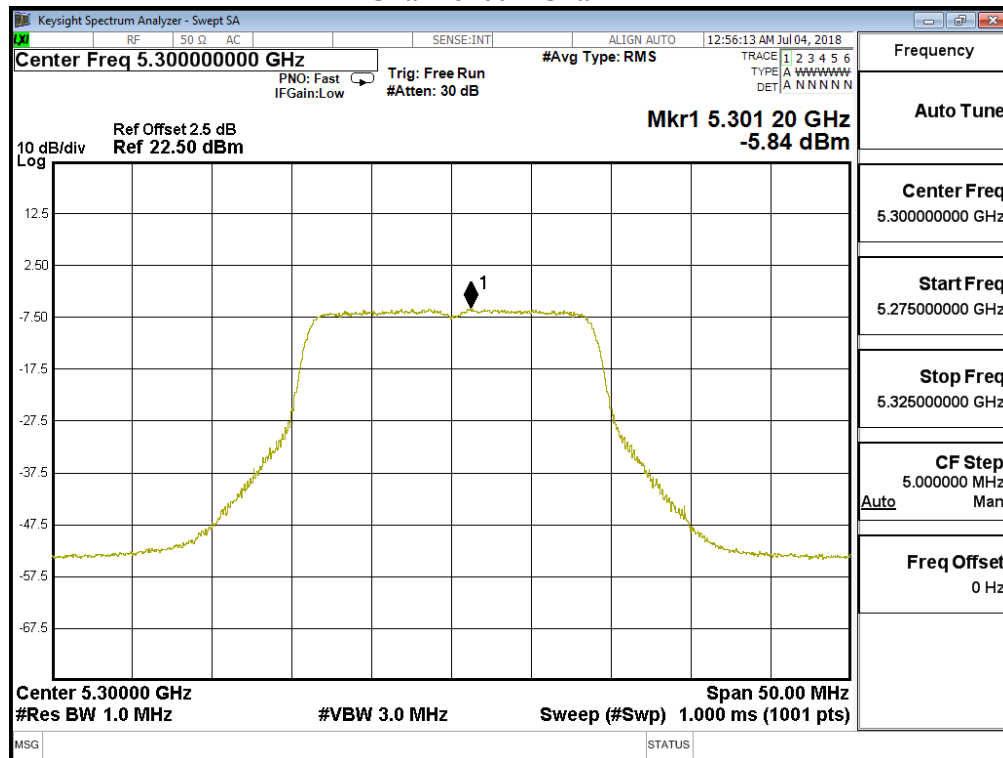
Channel 48 – Chain D



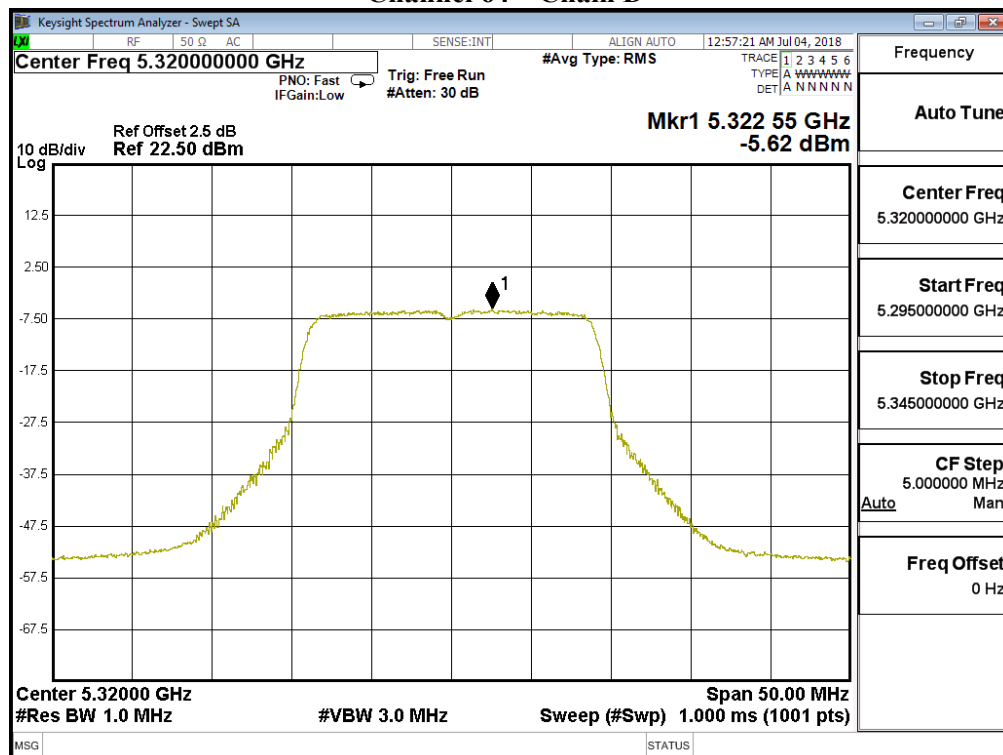
Channel 52 – Chain D



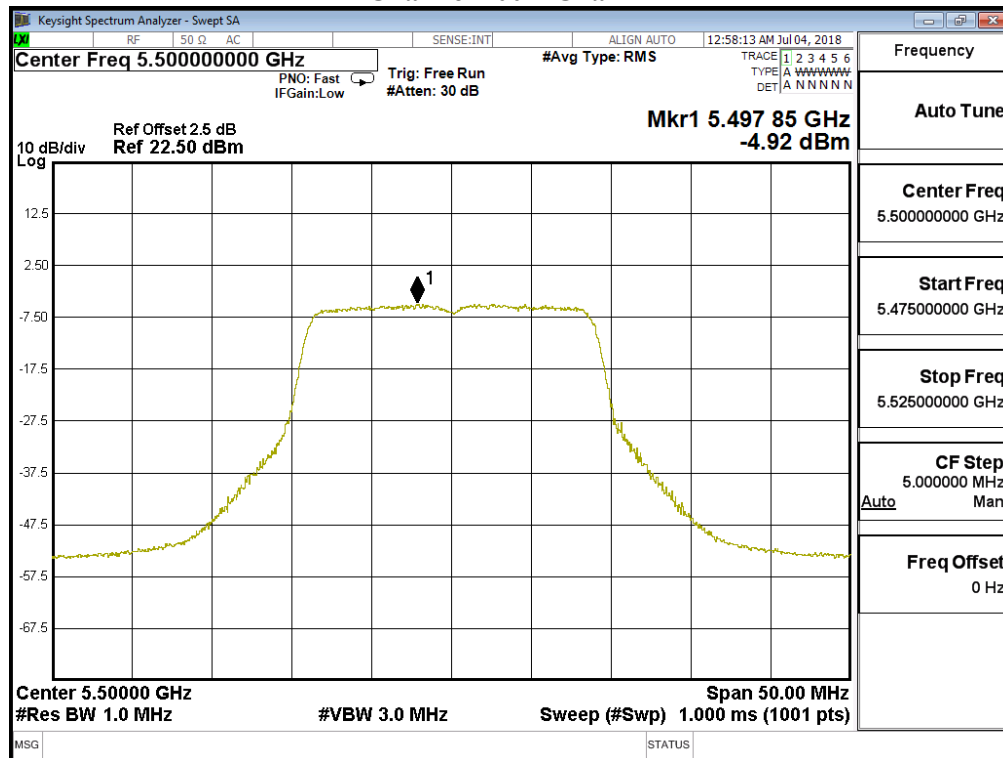
Channel 60 – Chain D



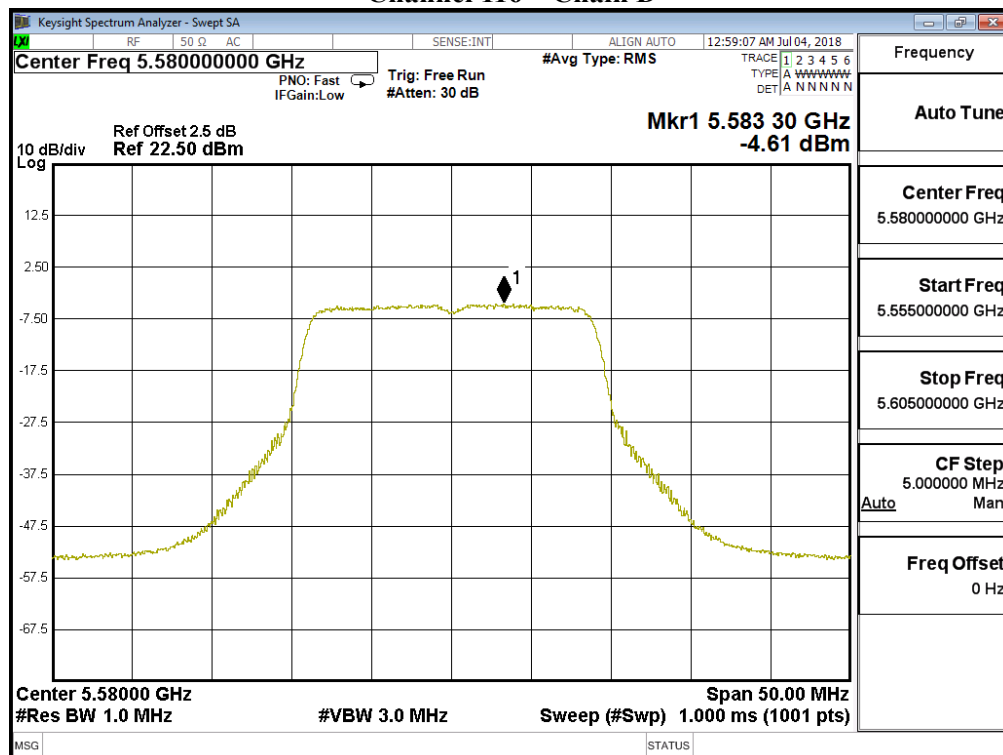
Channel 64 – Chain D



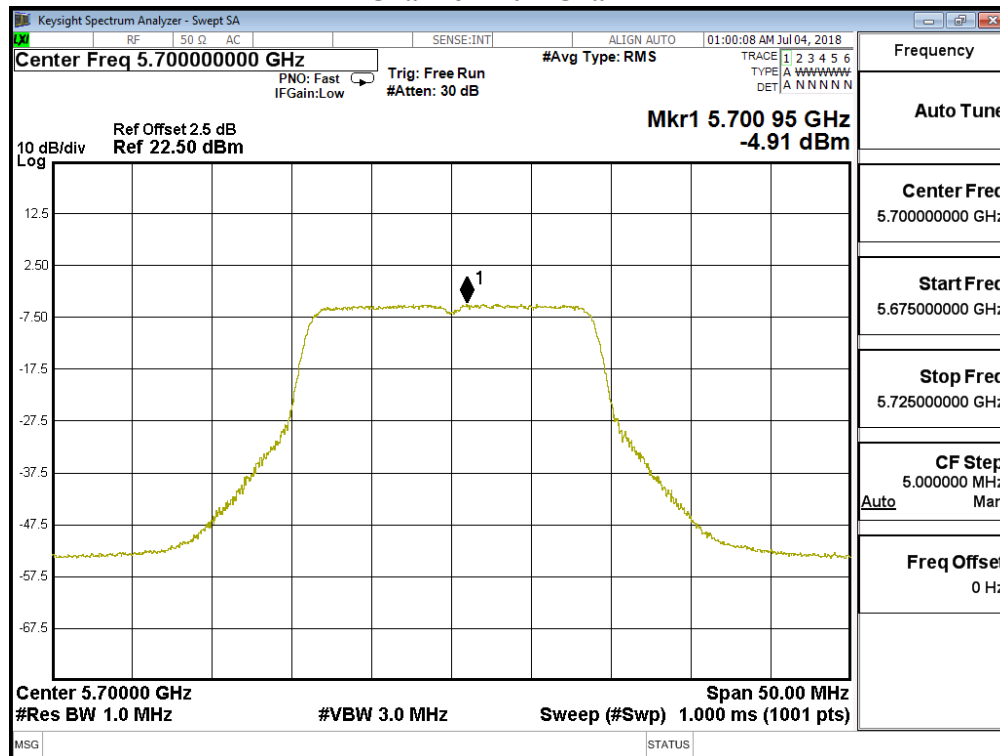
Channel 100 – Chain D



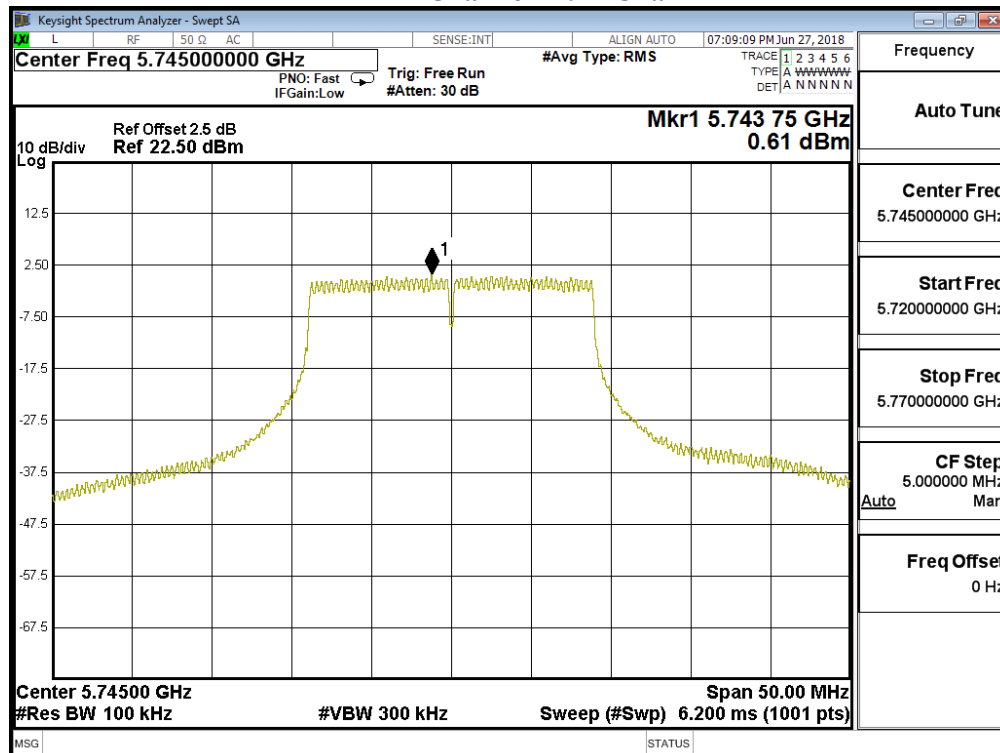
Channel 116 – Chain D



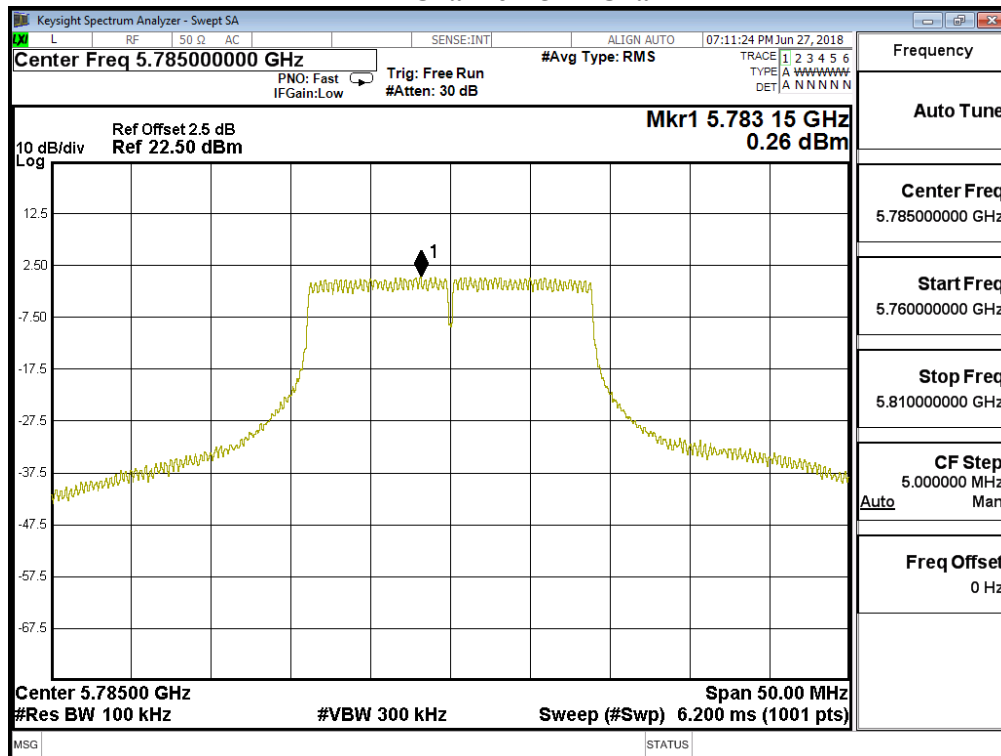
Channel 140 – Chain D



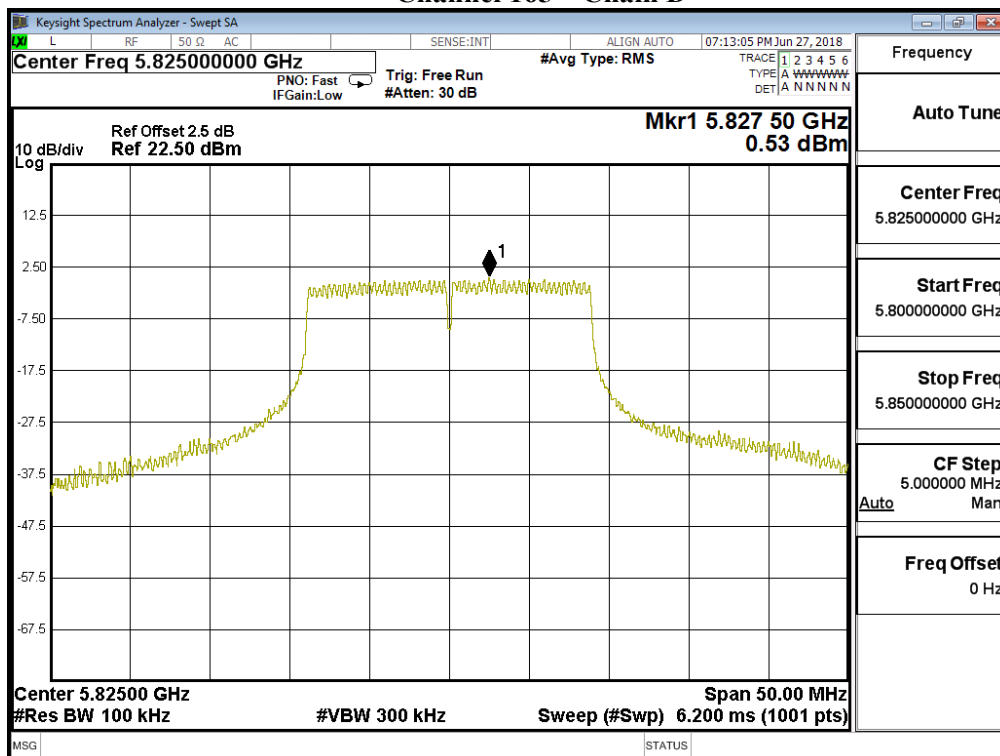
Channel 149 – Chain D



Channel 157 – Chain D



Channel 165 – Chain D



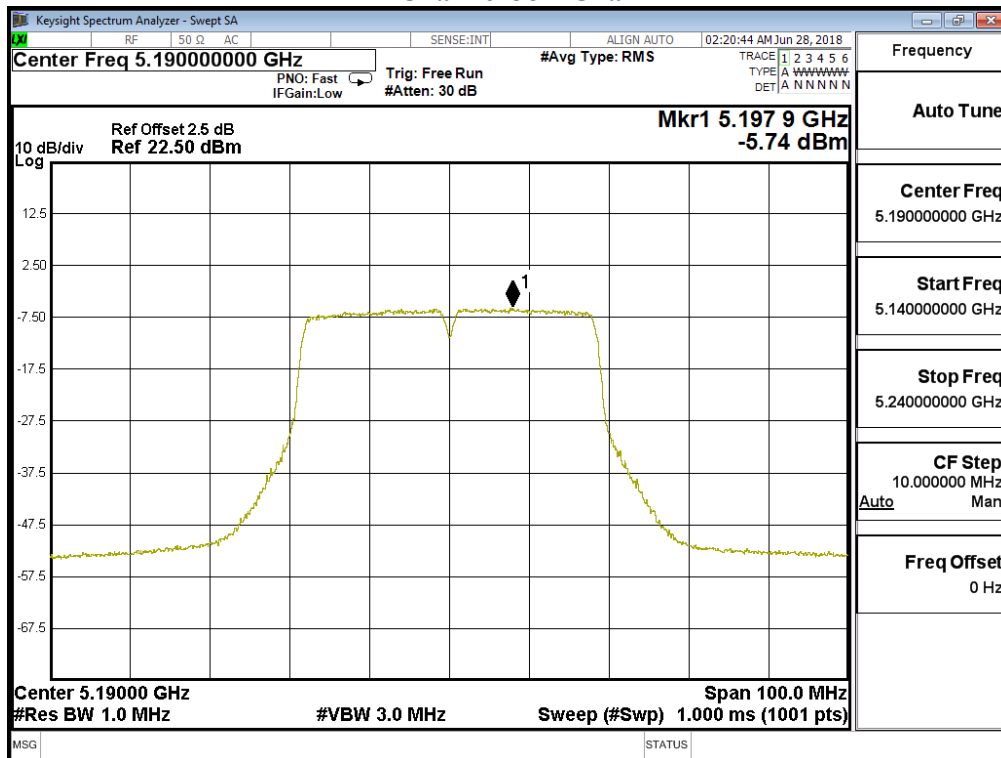
Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Date : 2018/07/20
 Test Mode : Mode 3: Transmit (802.11n-40BW 60Mbps) (Antenna No.18)

Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	Total PPSD (dBm)	Required Limit (dBm)	Result
38	5190	A	-5.74	0.28	2	Pass
		B	-6.21	-0.19	2	Pass
		C	-6.25	-0.23	2	Pass
		D	-4.98	1.04	2	Pass
46	5230	A	-5.10	0.92	2	Pass
		B	-5.23	0.79	2	Pass
		C	-5.14	0.88	2	Pass
		D	-5.89	0.13	2	Pass
54	5270	A	-6.26	-0.24	2	Pass
		B	-5.43	0.59	2	Pass
		C	-5.30	0.72	2	Pass
		D	-5.75	0.27	2	Pass
62	5310	A	-6.21	-0.19	2	Pass
		B	-6.22	-0.20	2	Pass
		C	-6.22	-0.20	2	Pass
		D	-6.20	-0.18	2	Pass
102	5510	A	-6.46	-0.44	2	Pass
		B	-6.98	-0.96	2	Pass
		C	-7.17	-1.15	2	Pass
		D	-4.62	1.40	2	Pass
110	5550	A	-6.06	-0.04	2	Pass
		B	-7.69	-1.67	2	Pass
		C	-7.64	-1.62	2	Pass
		D	-4.57	1.45	2	Pass
134	5670	A	-6.92	-0.90	2	Pass
		B	-7.88	-1.86	2	Pass
		C	-8.81	-2.79	2	Pass
		D	-4.95	1.07	2	Pass

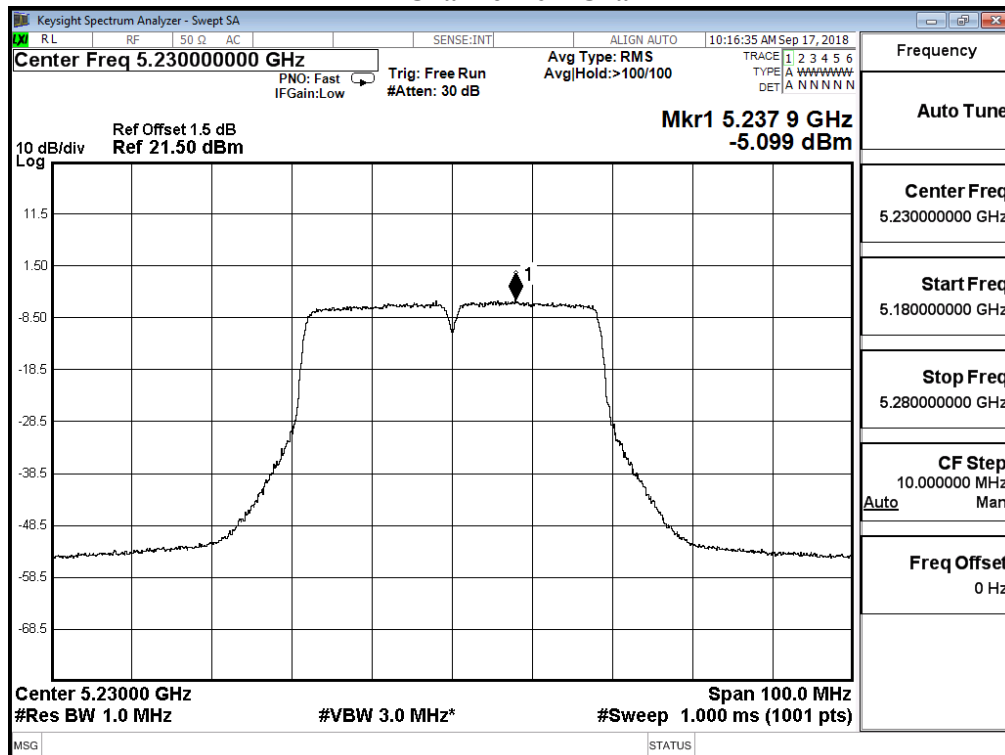
Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	BWCF (dB)	Total PSD (dBm) ₁	Required Limit (dBm)	Result
151	5755	A	-6.79	6.98	6.21	<21	Pass
		B	-6.90	6.98	6.10	<21	Pass
		C	-7.69	6.98	5.31	<21	Pass
		D	-3.97	6.98	9.03	<21	Pass
159	5795	A	-6.38	6.98	6.62	<21	Pass
		B	-7.60	6.98	5.40	<21	Pass
		C	-8.42	6.98	4.58	<21	Pass
		D	-4.72	6.98	8.28	<21	Pass

Note 1: The quantity $10 \cdot \log 4$ (four antennas) is added to the spectrum peak value according to document 662911 D01.

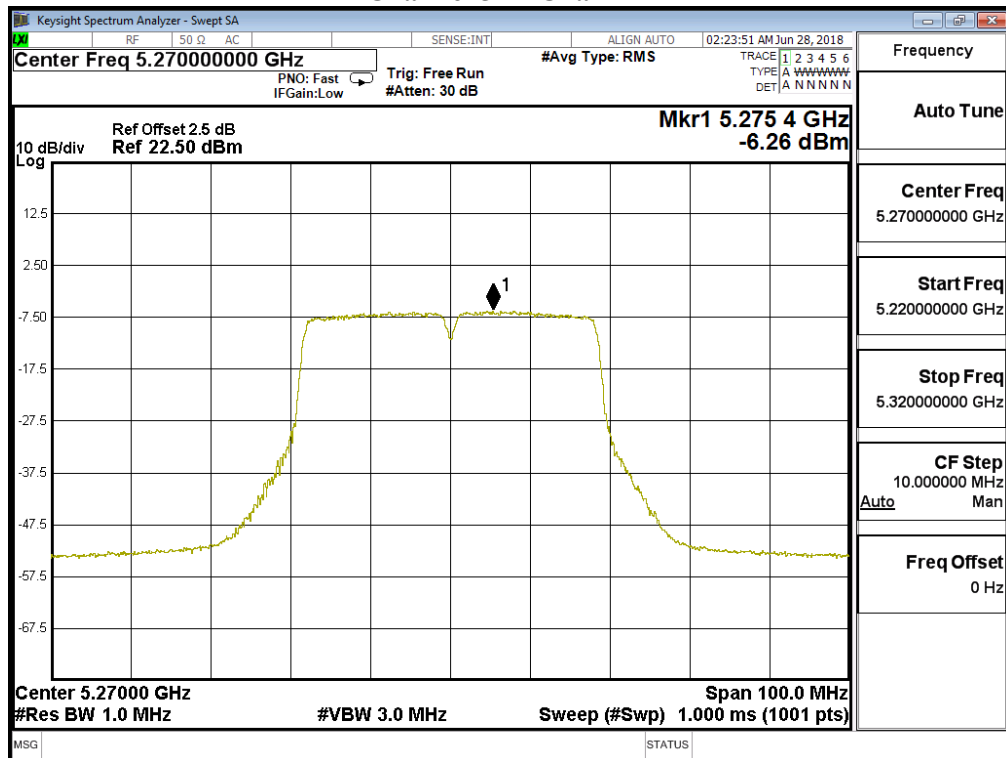
Channel 38 – Chain A



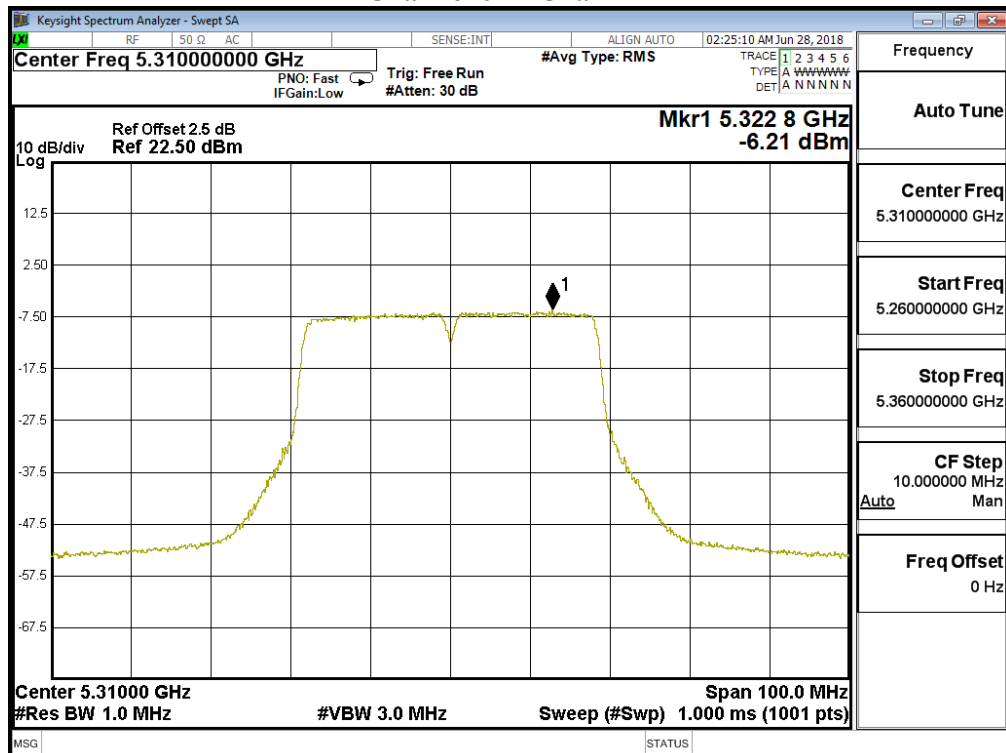
Channel 46 – Chain A



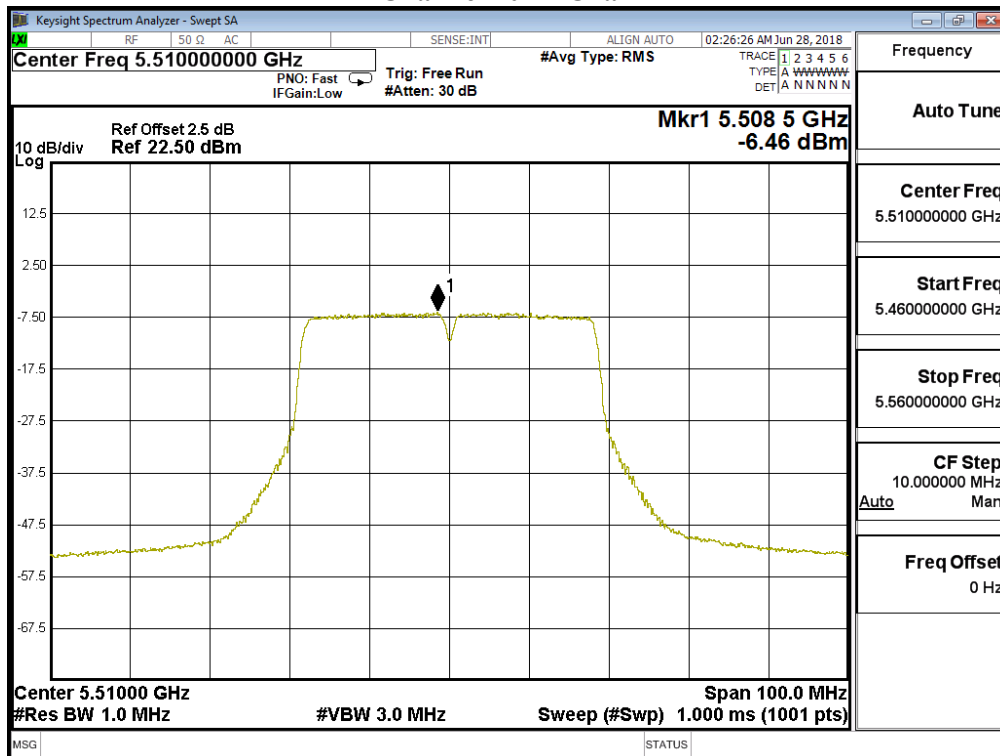
Channel 54 – Chain A



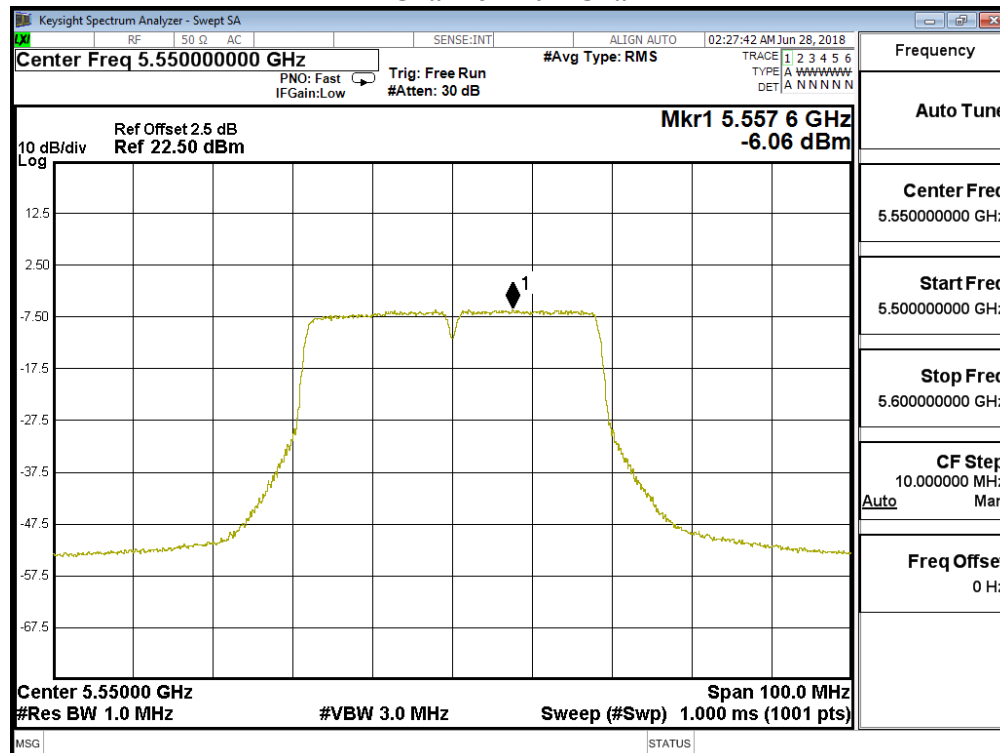
Channel 62 – Chain A



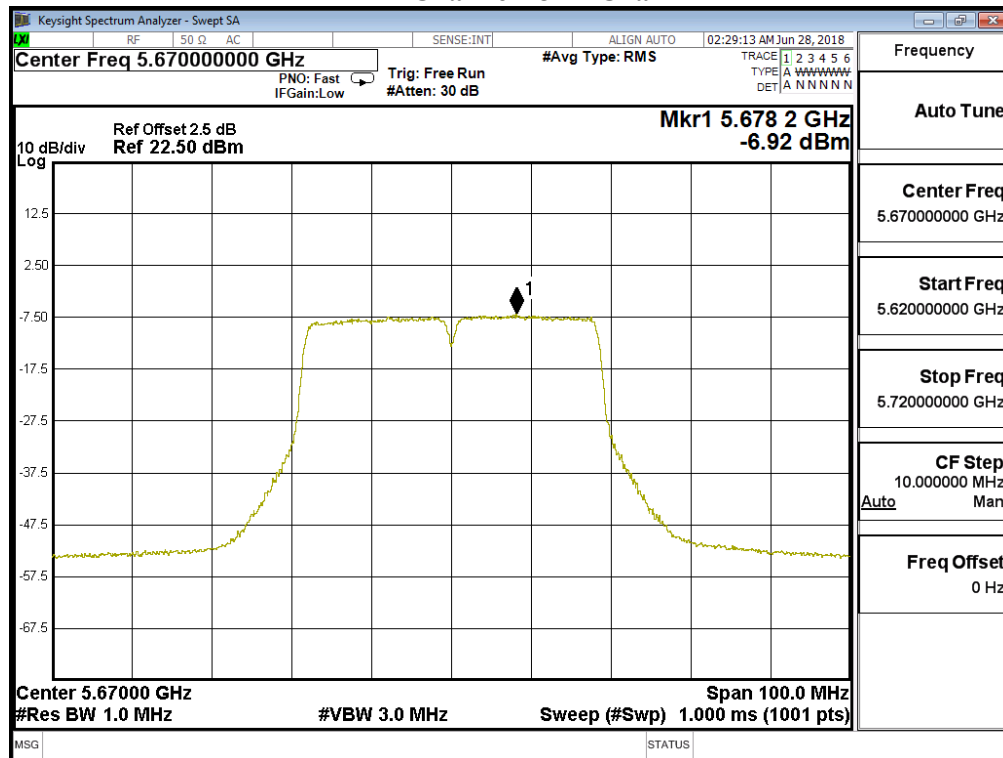
Channel 102 – Chain A



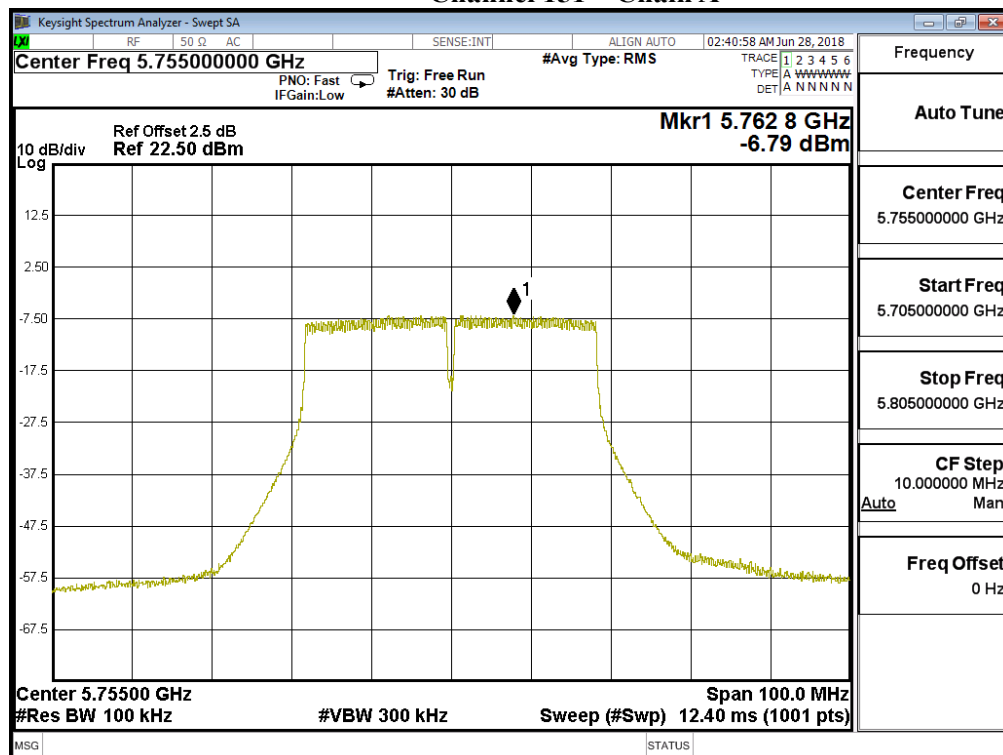
Channel 110 – Chain A



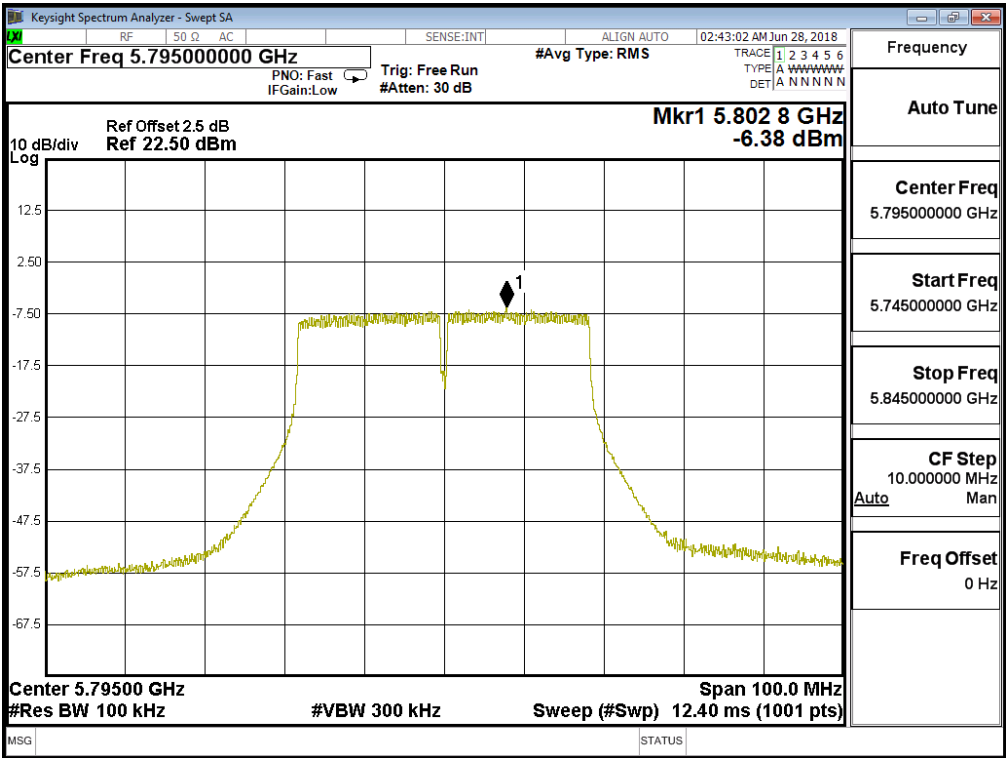
Channel 134 – Chain A



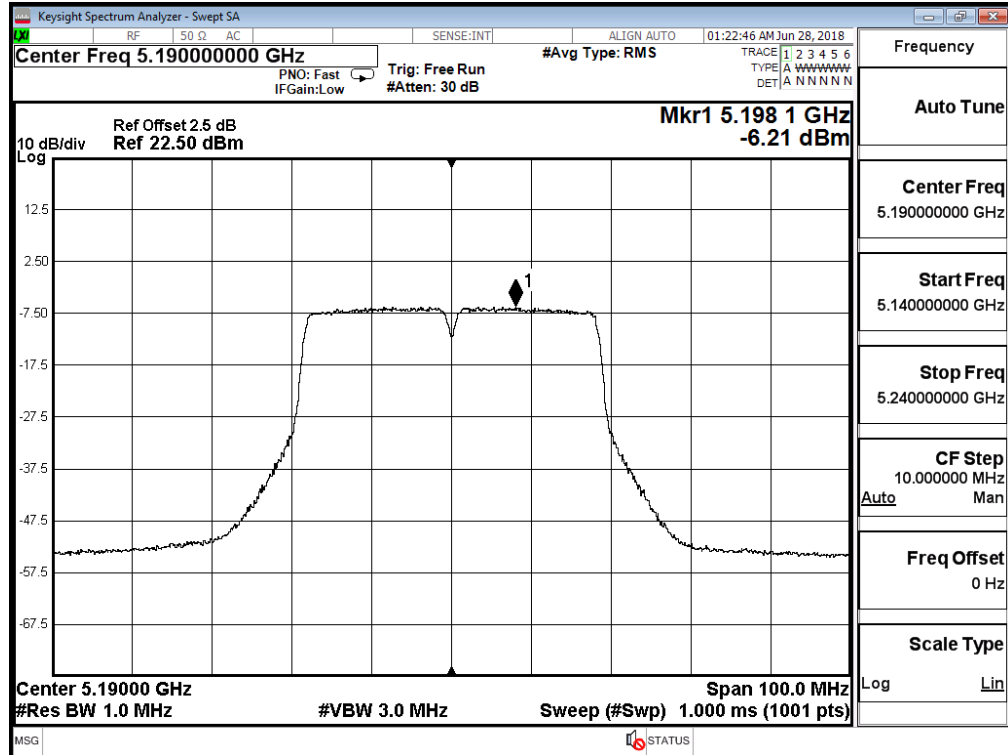
Channel 151 – Chain A



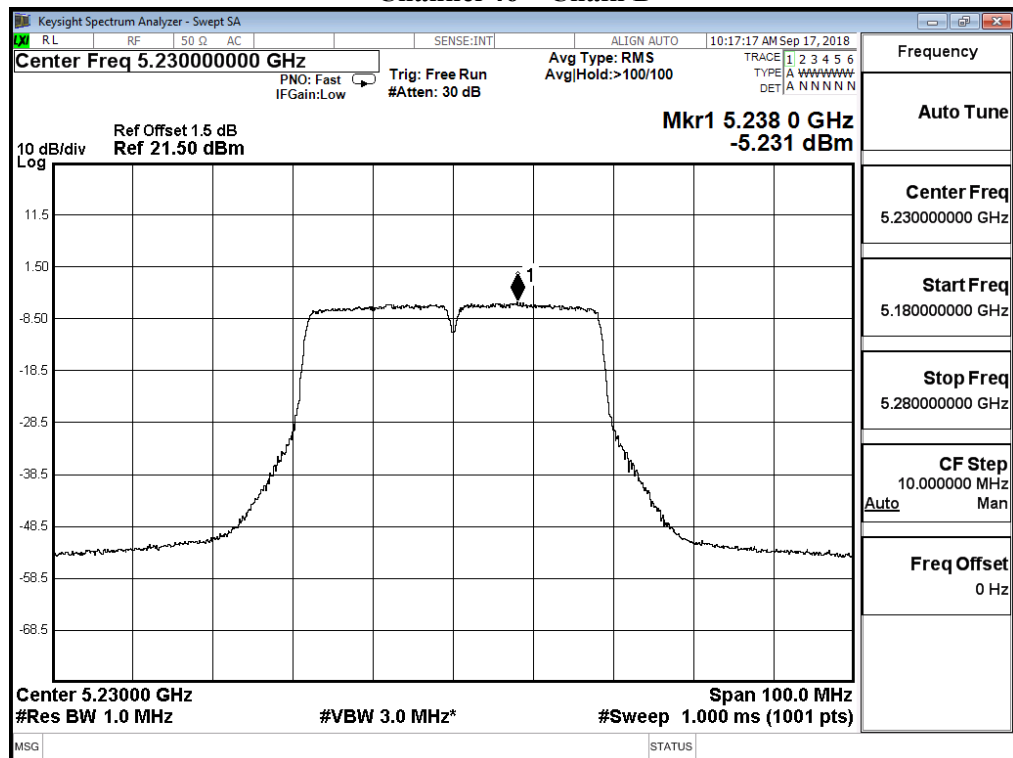
Channel 159 – Chain A



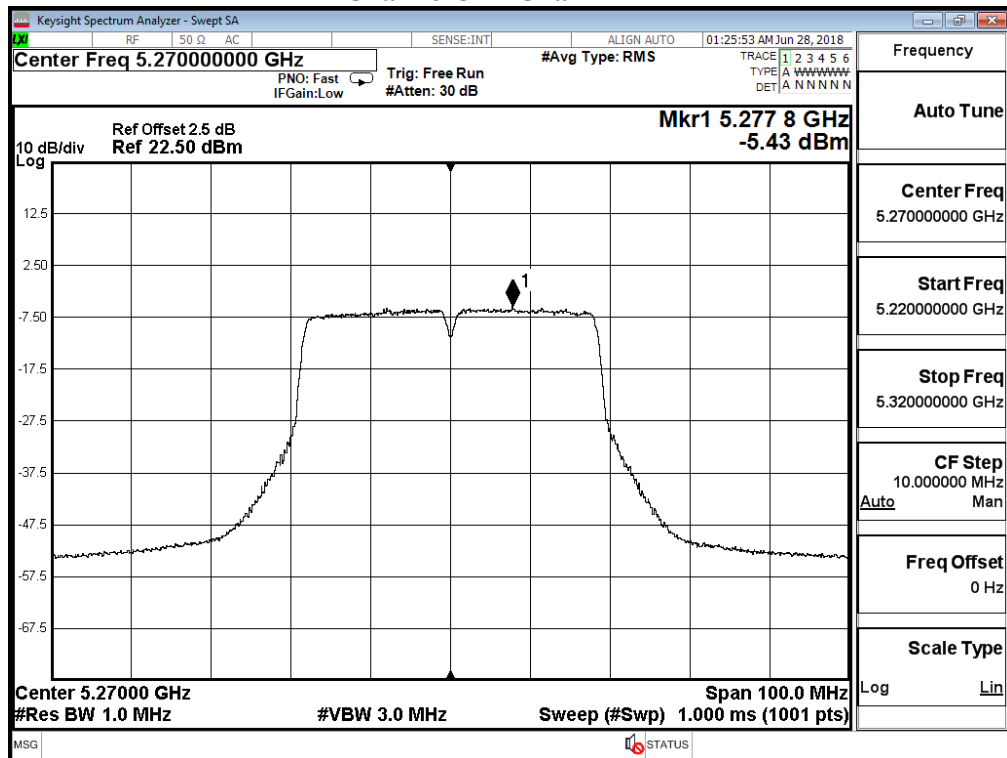
Channel 38 – Chain B



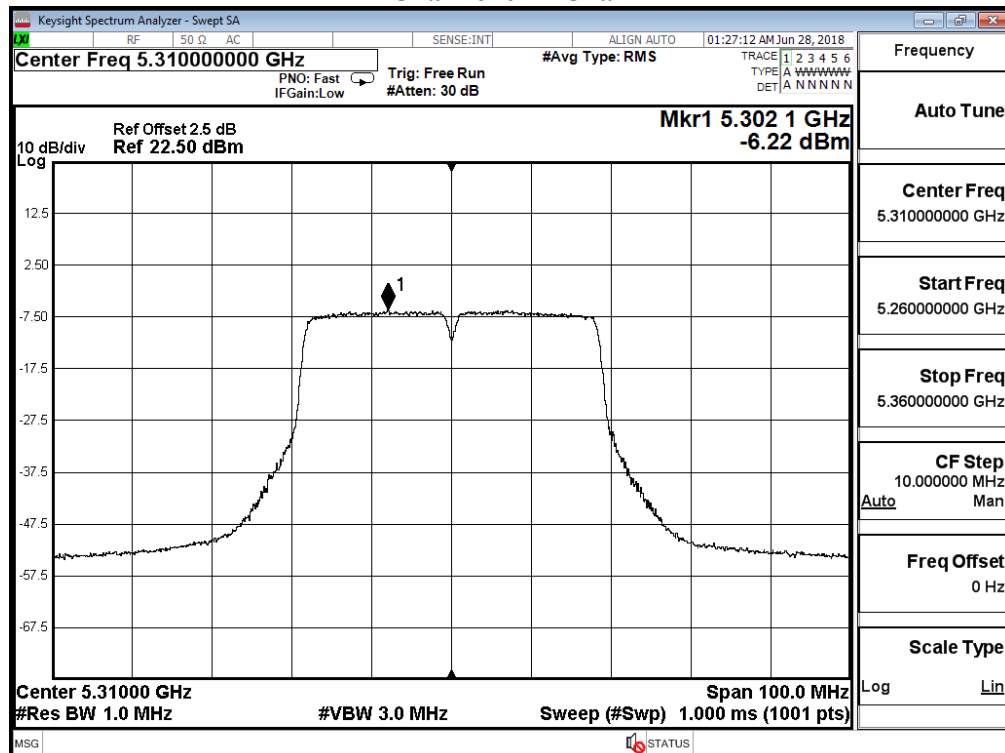
Channel 46 – Chain B



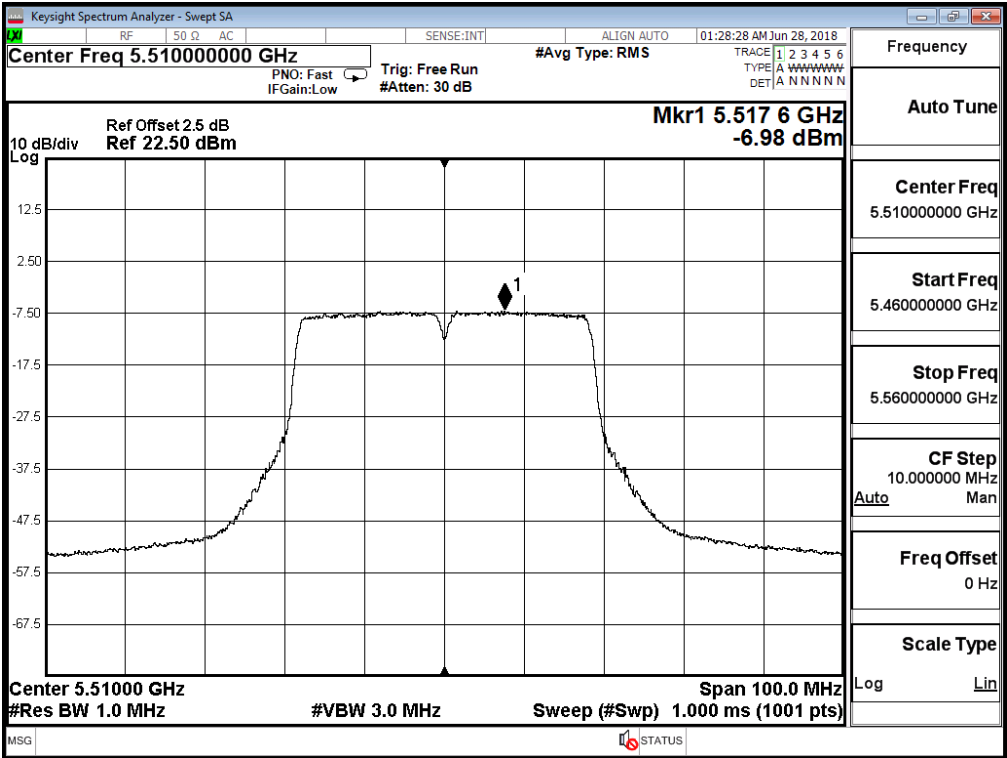
Channel 54 – Chain B



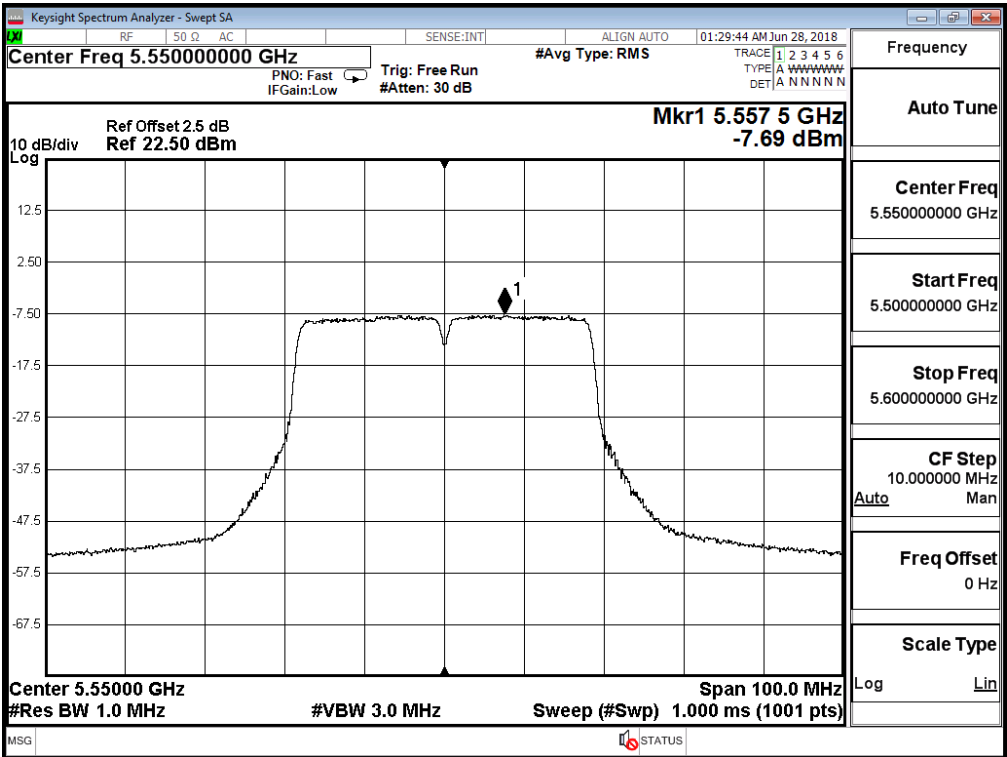
Channel 62 – Chain B



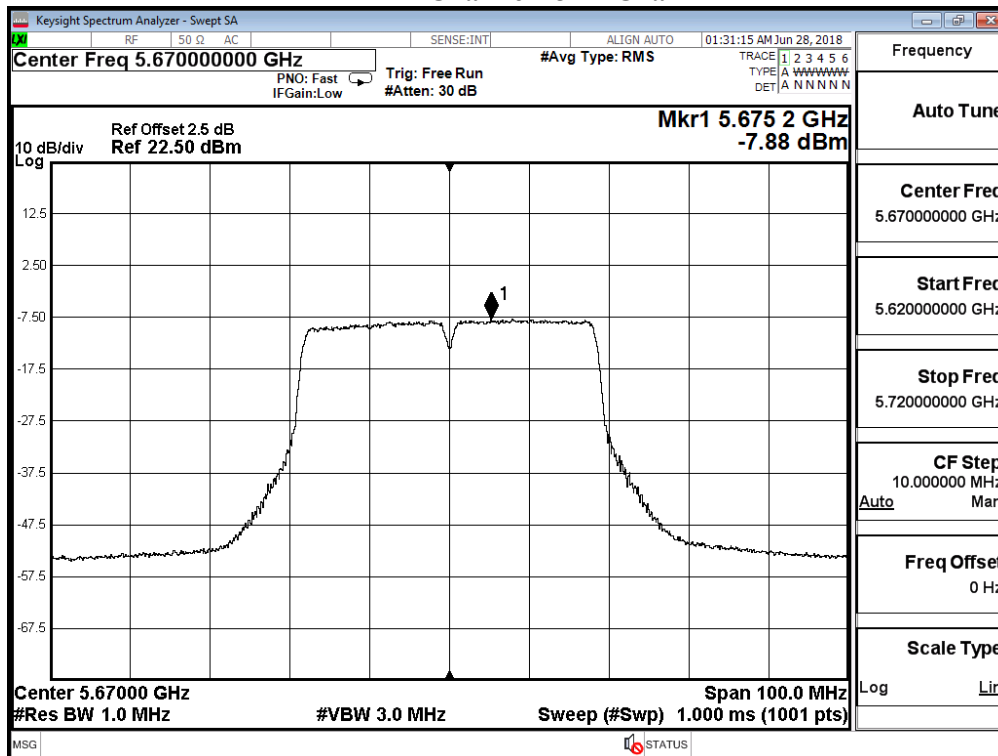
Channel 102 – Chain B



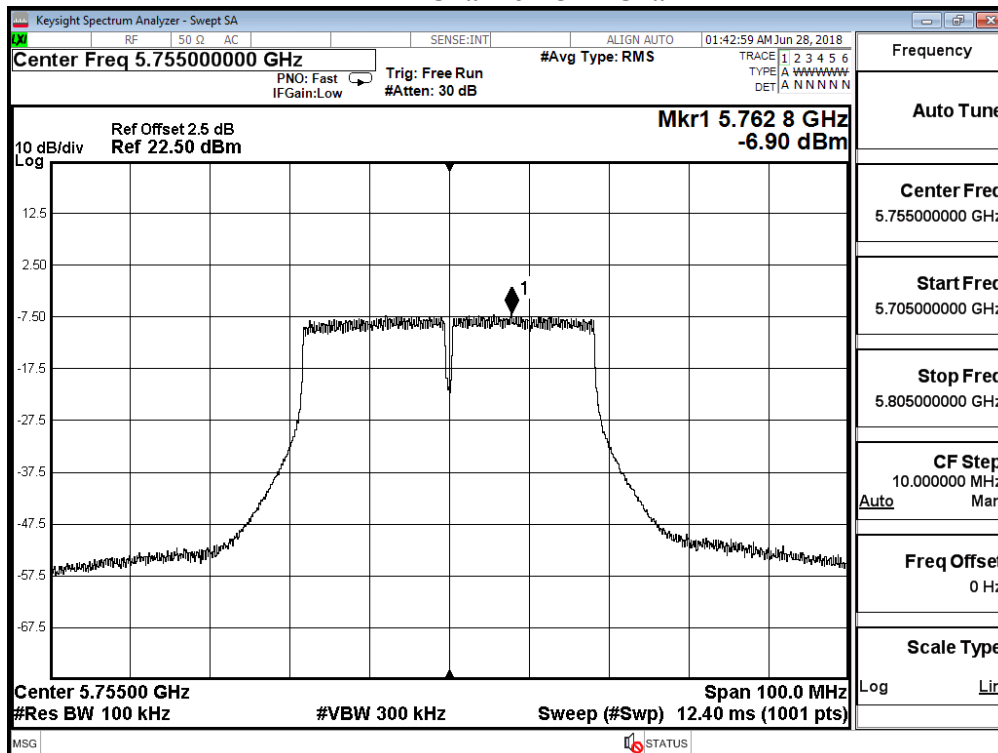
Channel 110 – Chain B



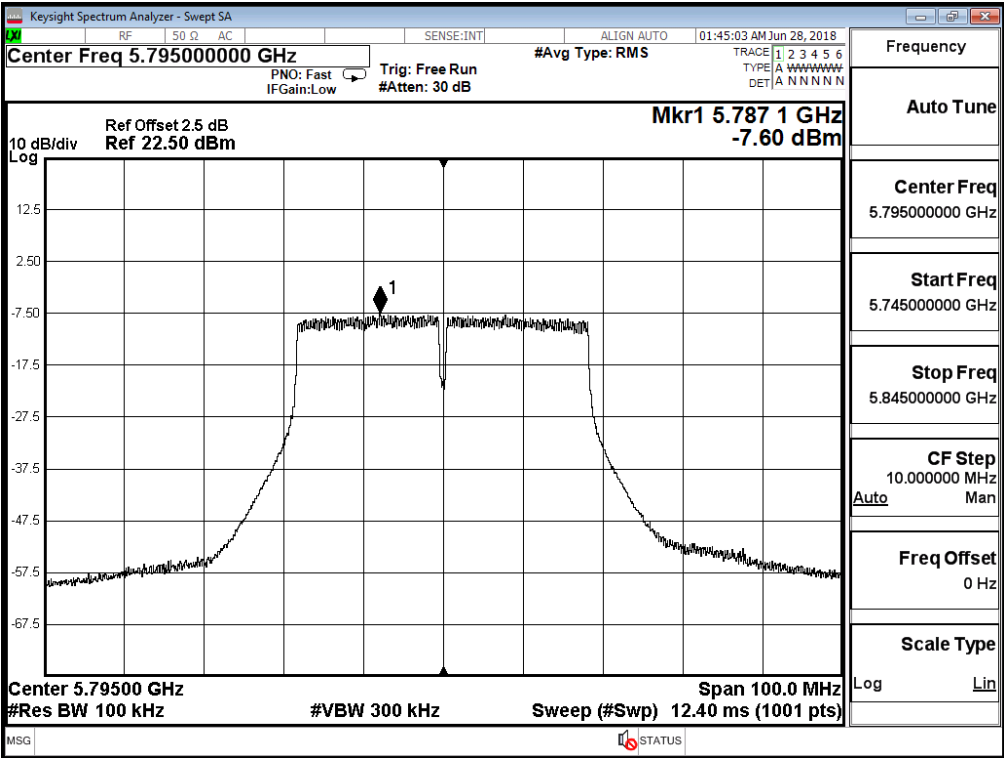
Channel 134 – Chain B



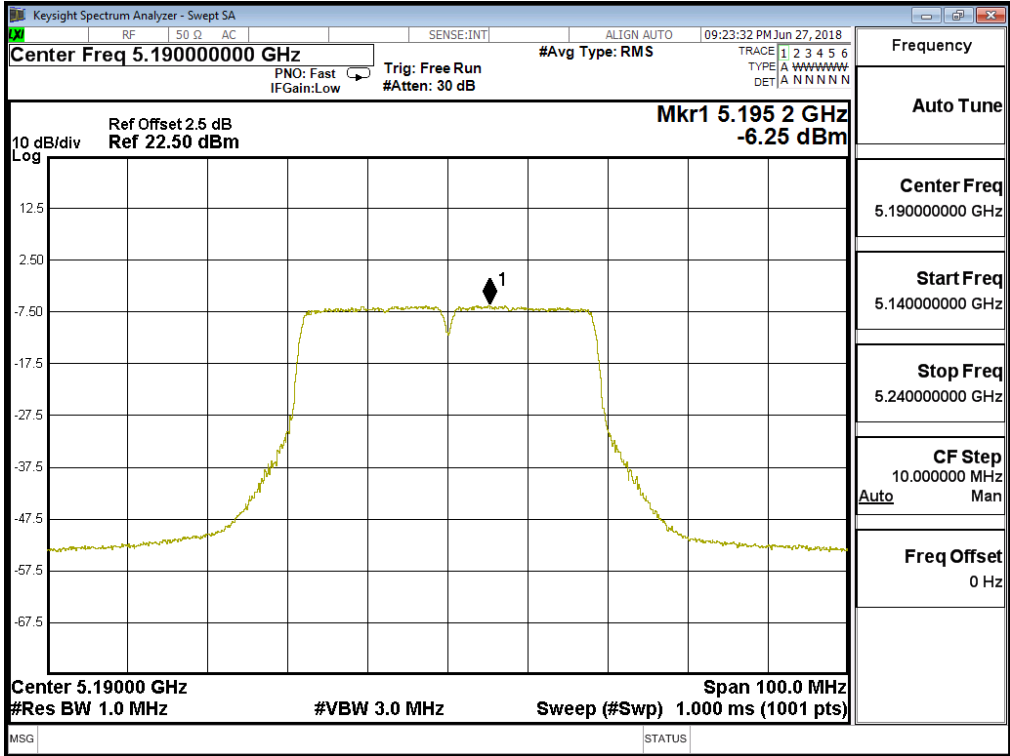
Channel 151 – Chain B



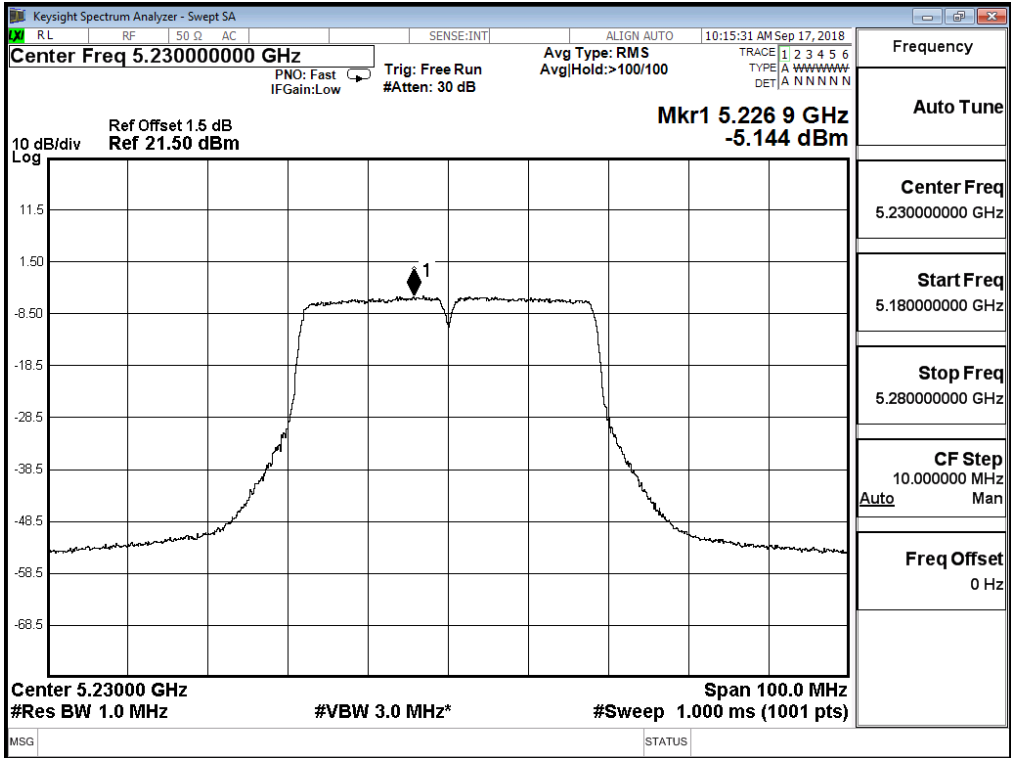
Channel 159 – Chain B



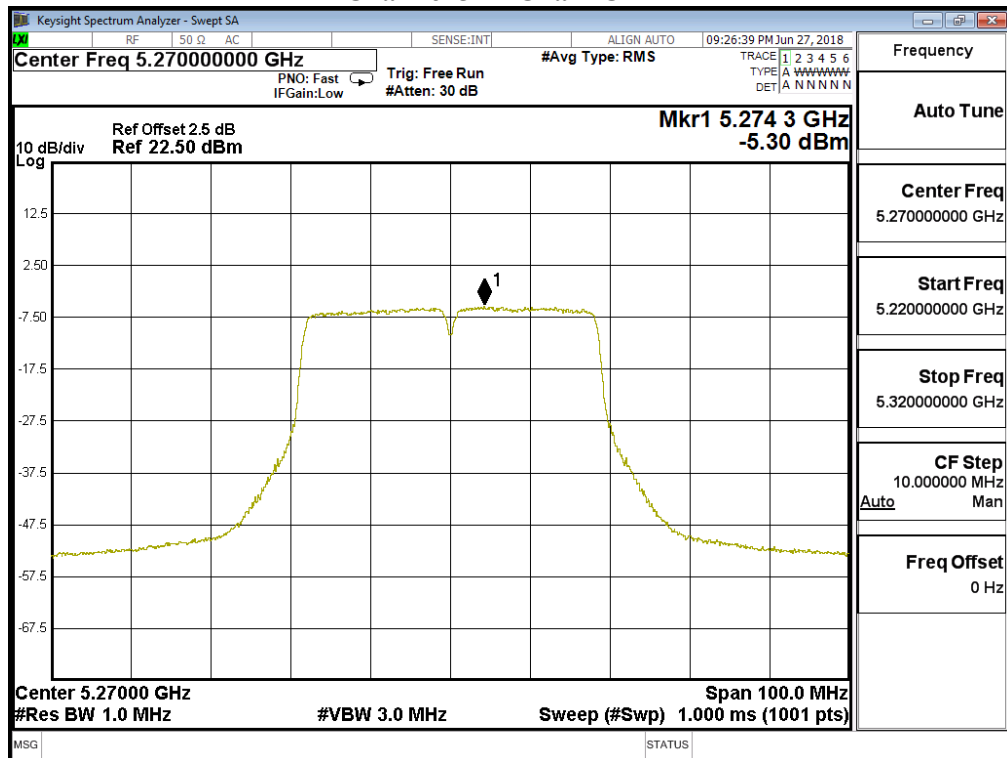
Channel 38 – Chain C



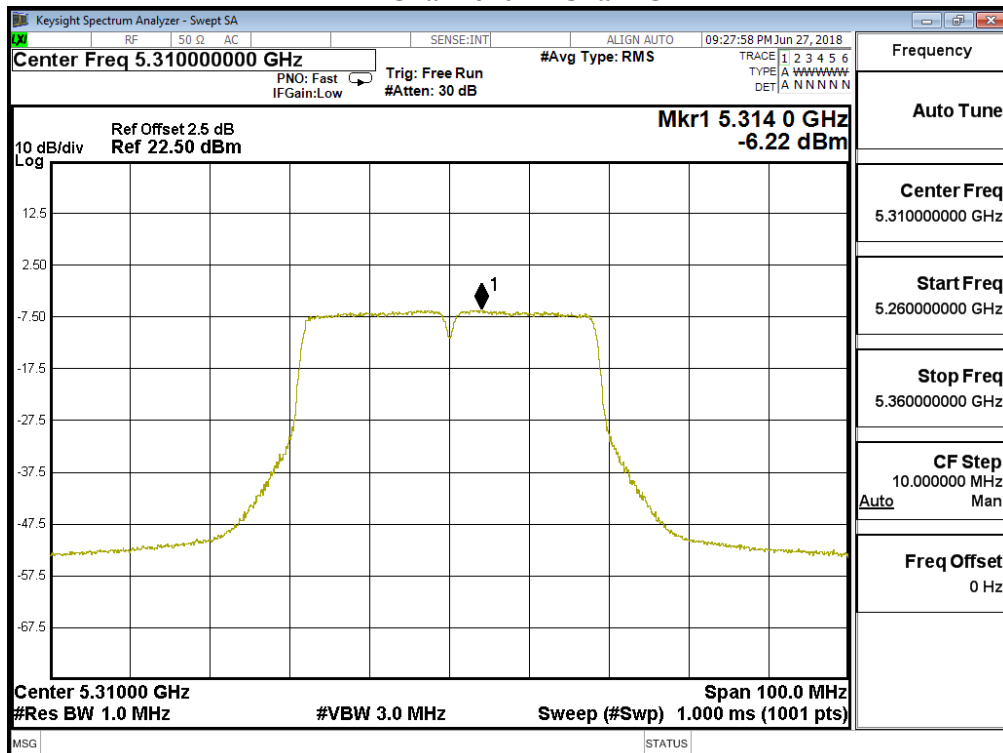
Channel 46 – Chain C



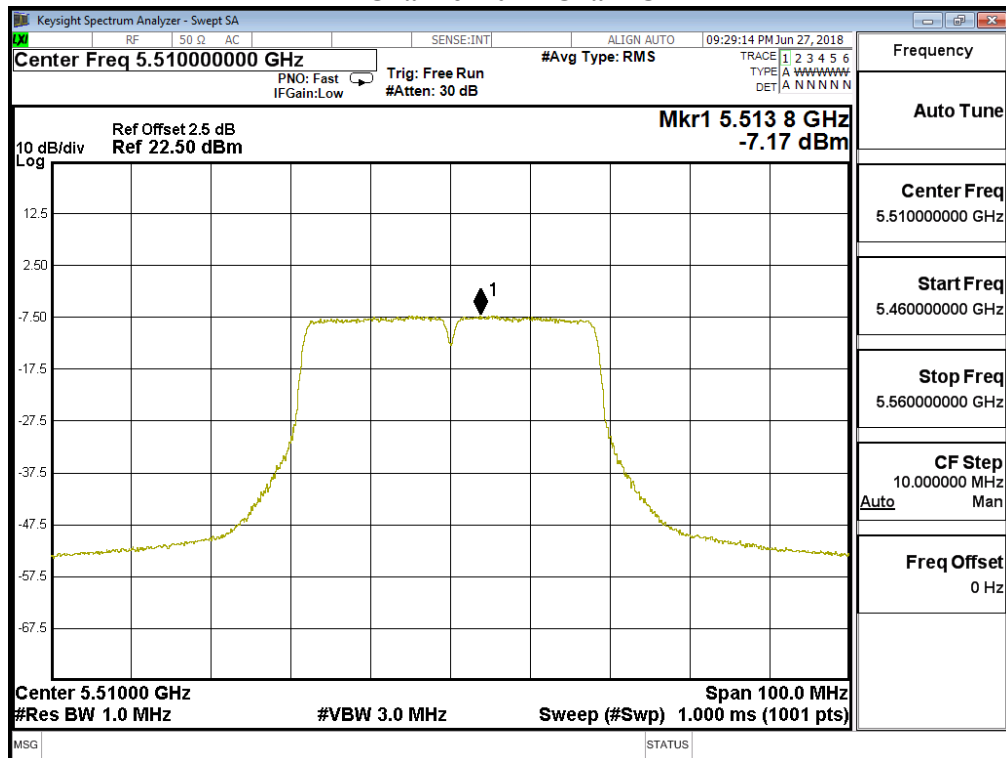
Channel 54 – Chain C



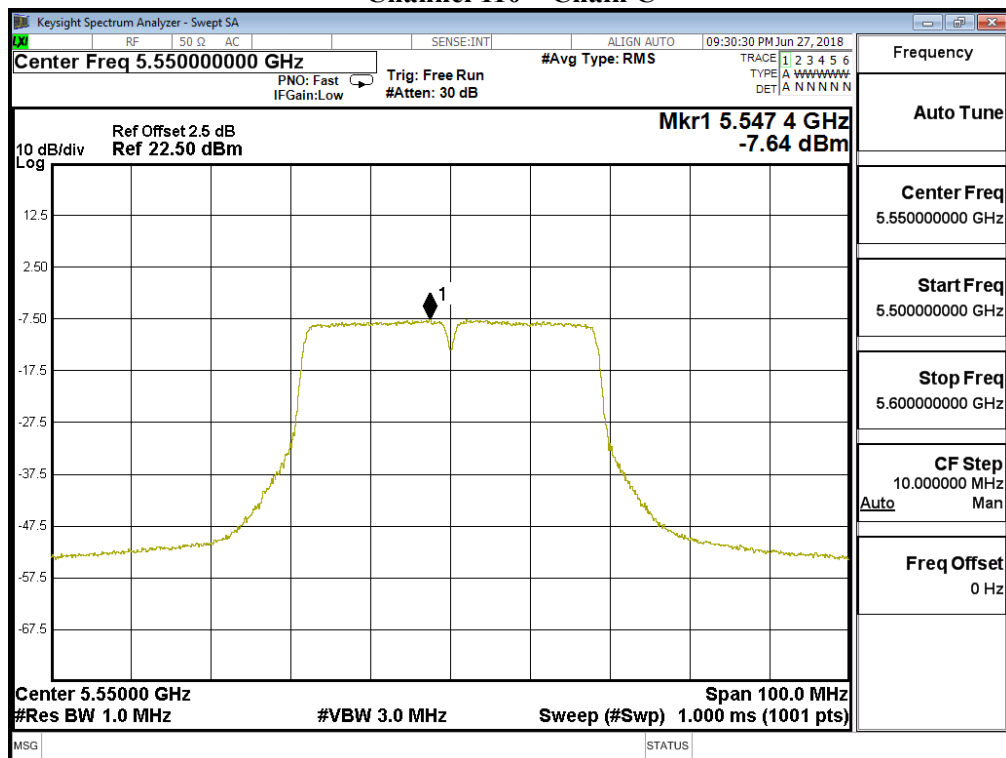
Channel 62 – Chain C



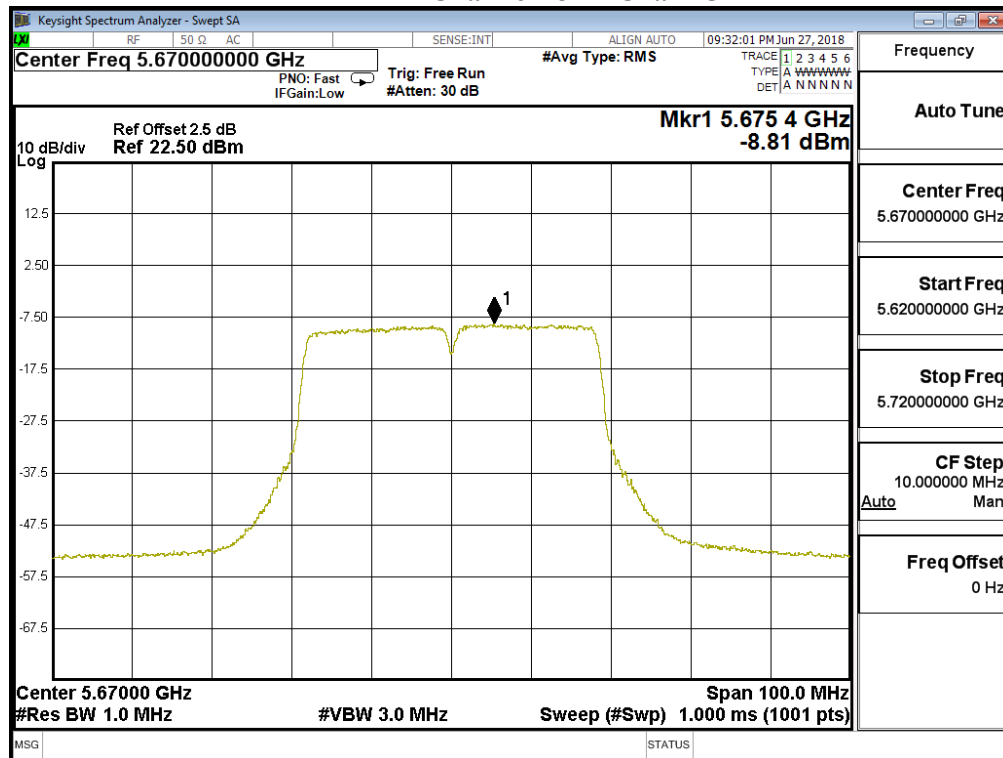
Channel 102 – Chain C



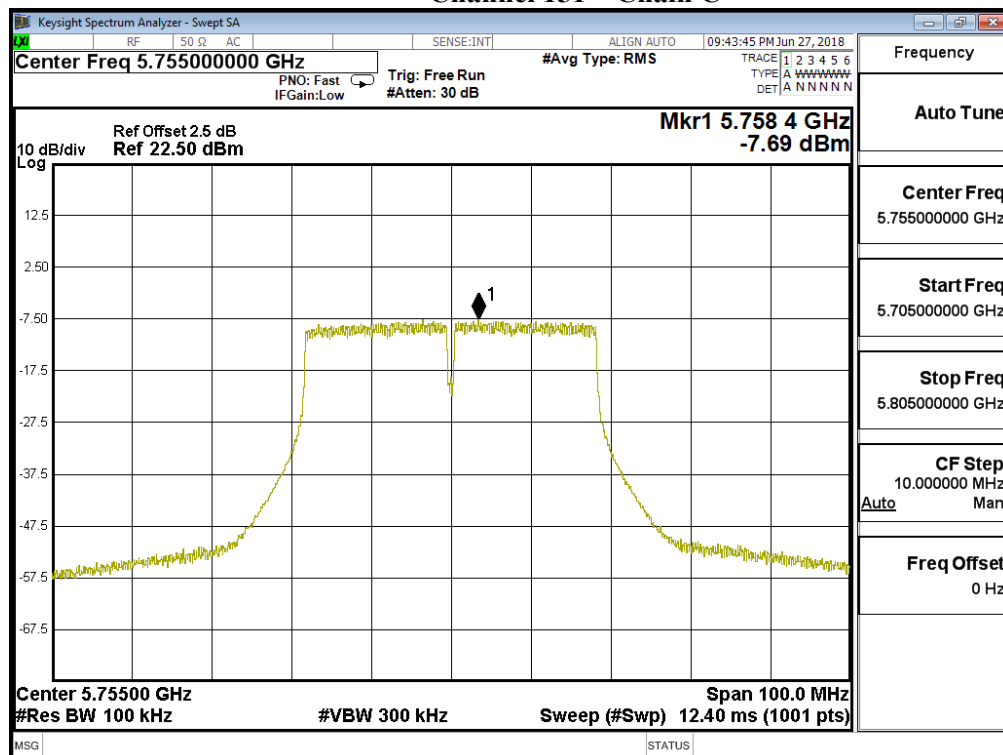
Channel 110 – Chain C



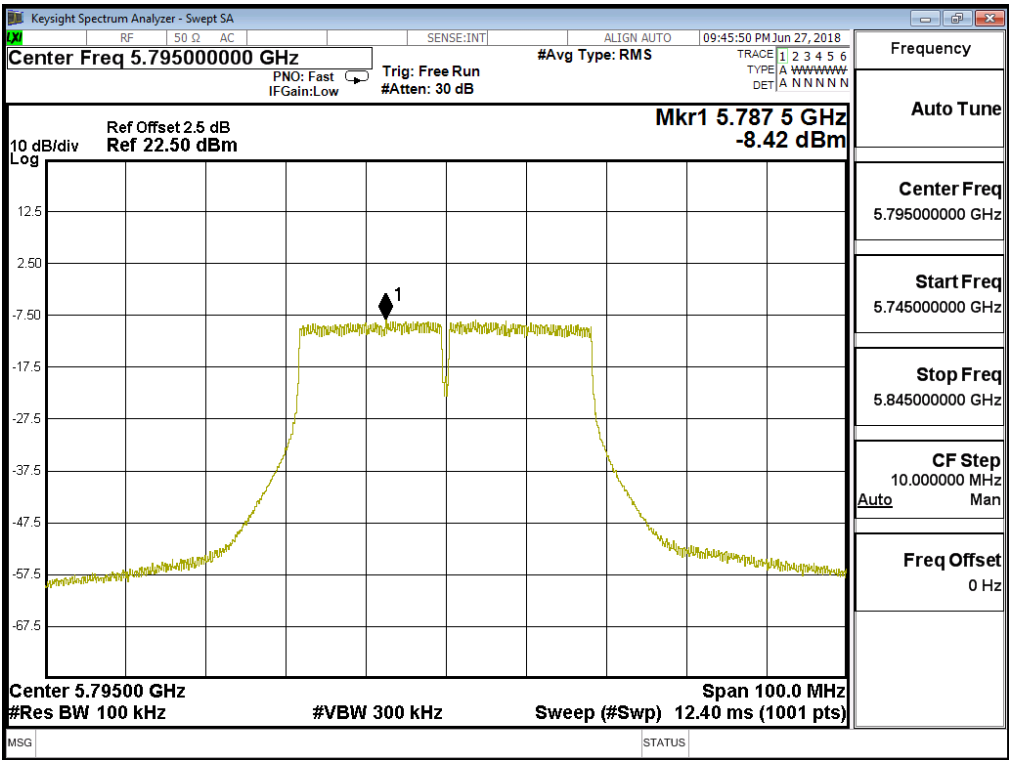
Channel 134 – Chain C



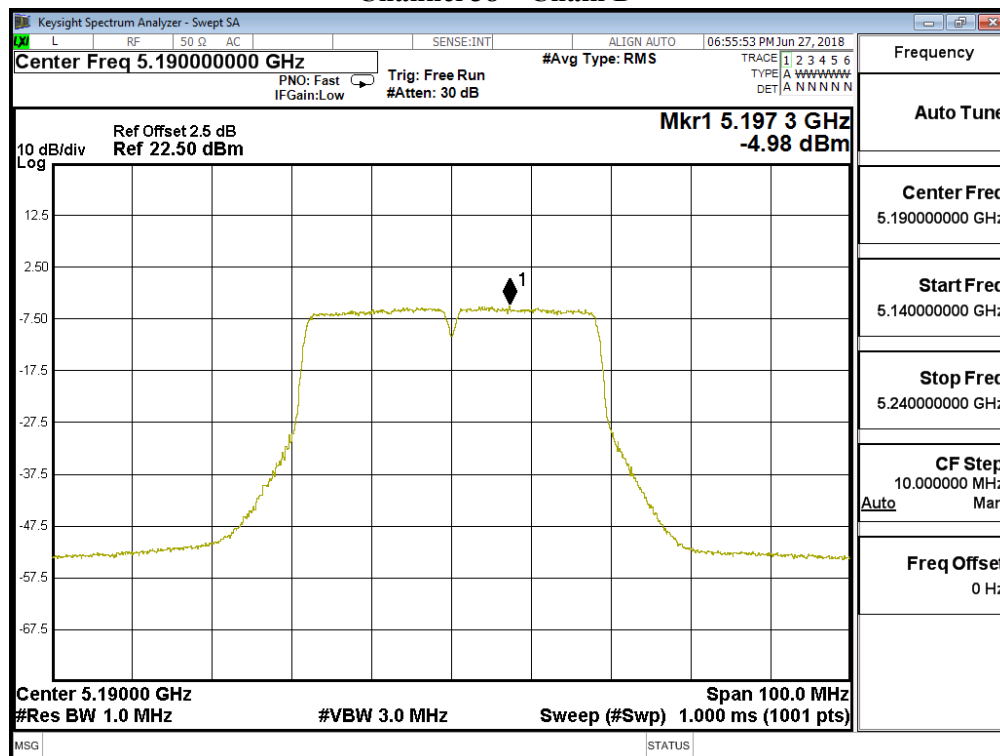
Channel 151 – Chain C



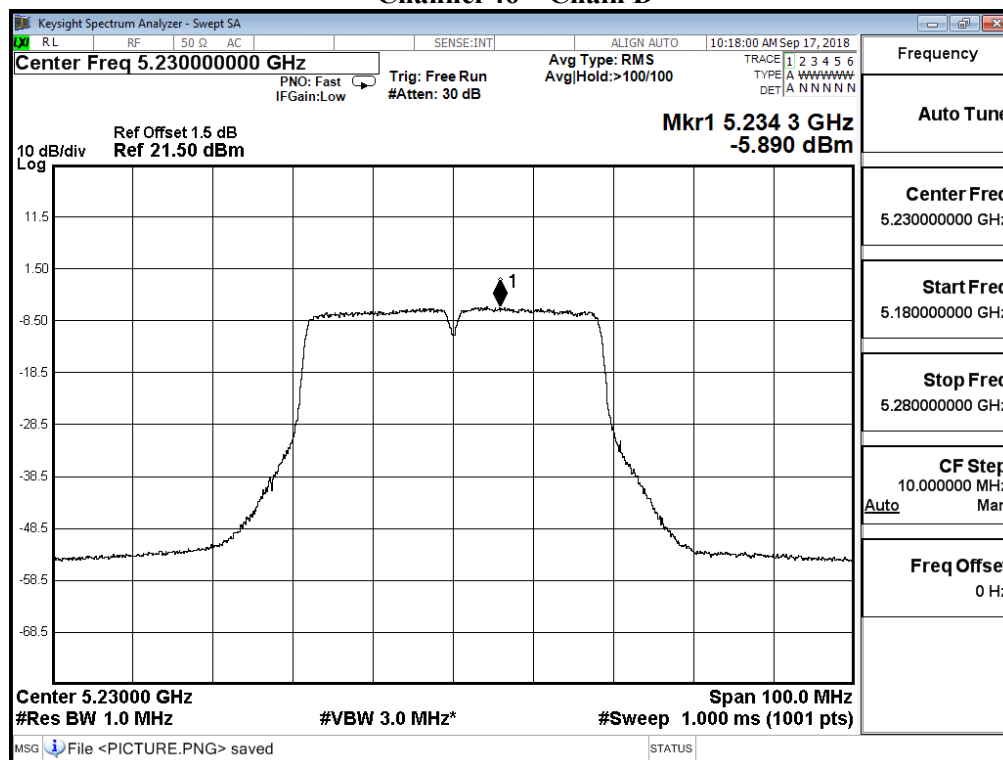
Channel 159 – Chain C



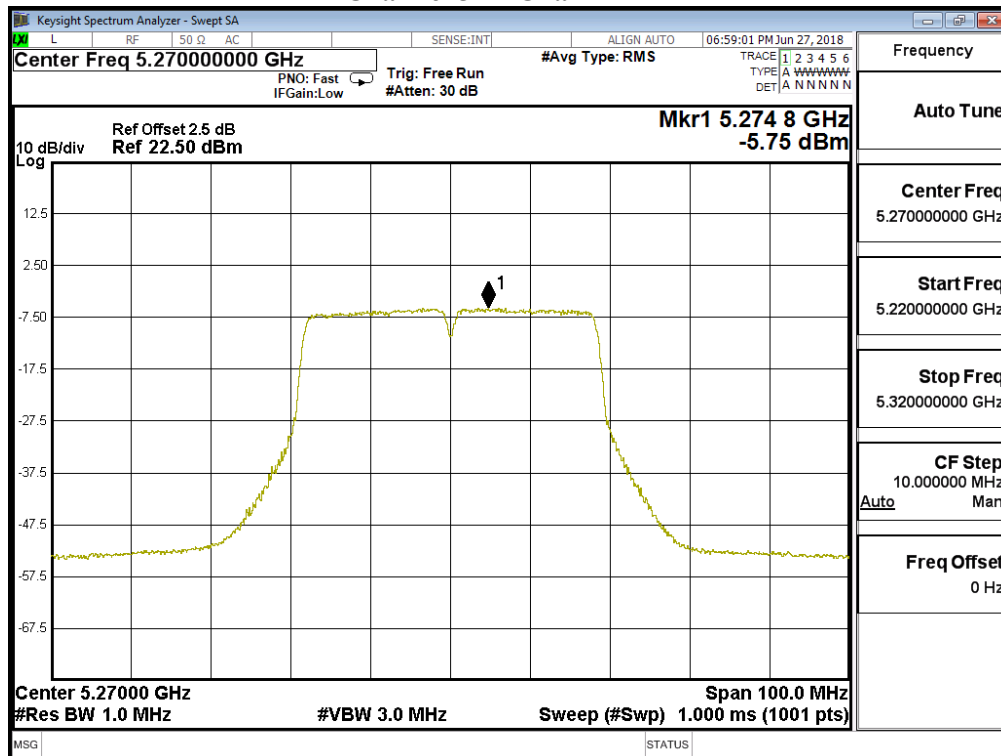
Channel 38 – Chain D



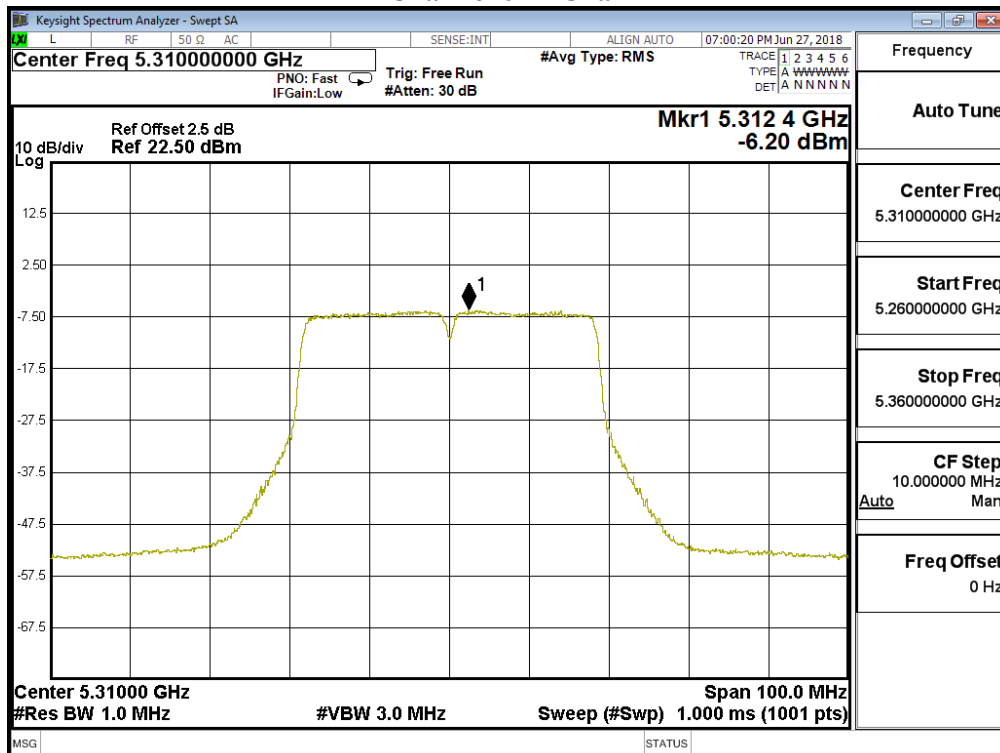
Channel 46 – Chain D



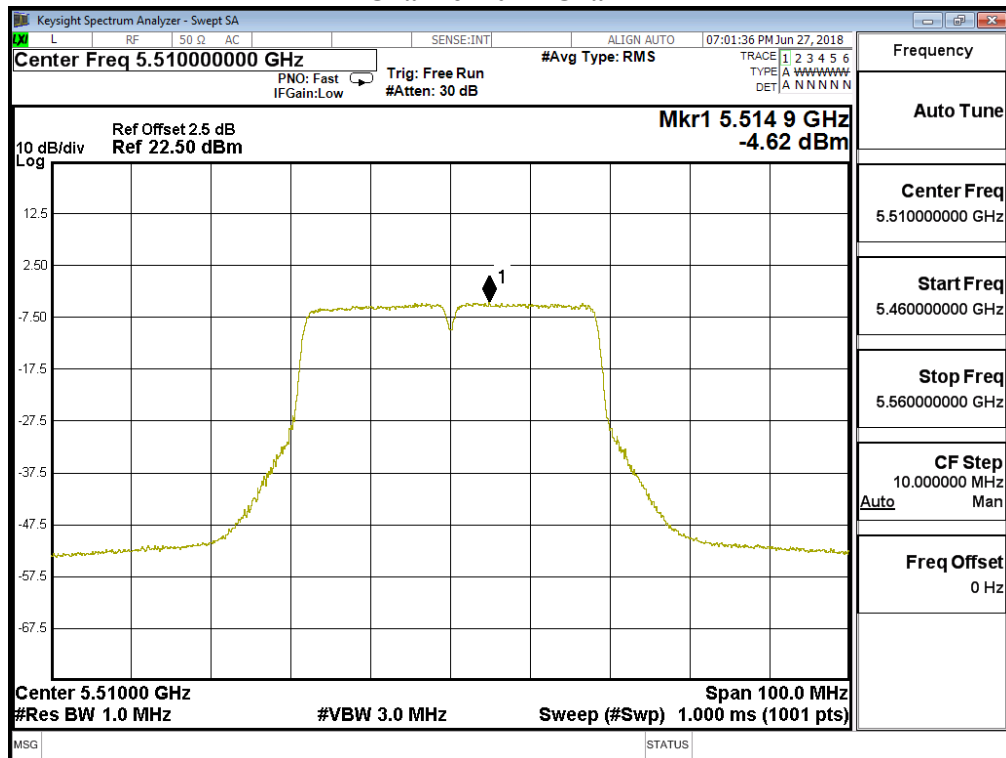
Channel 54 – Chain D



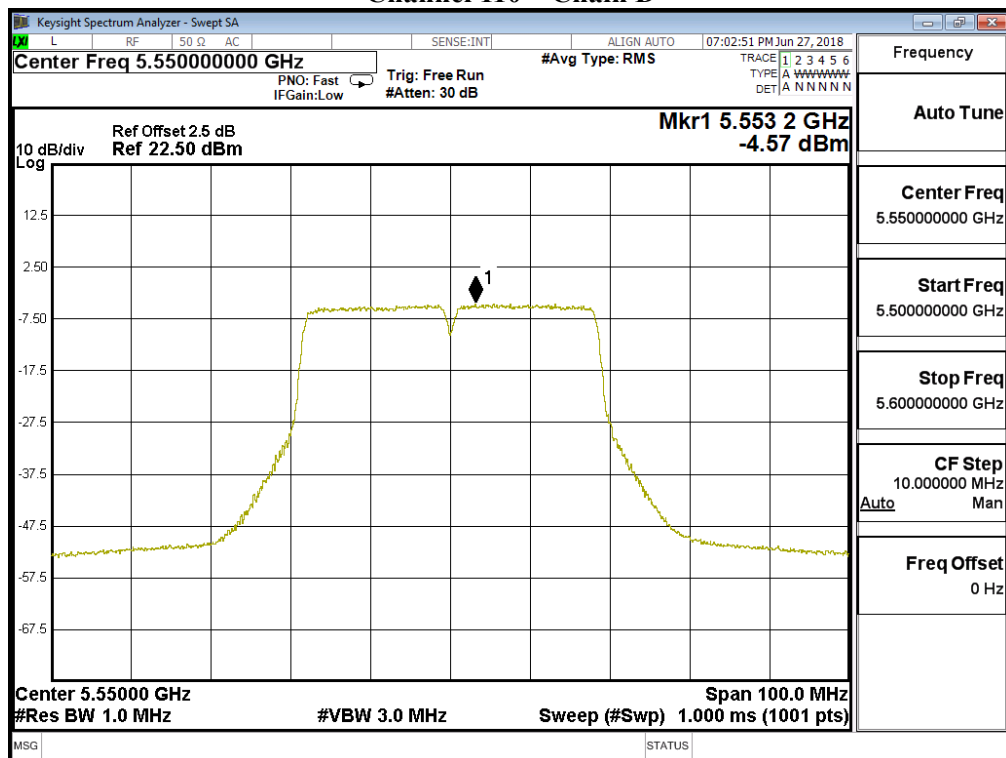
Channel 62 – Chain D



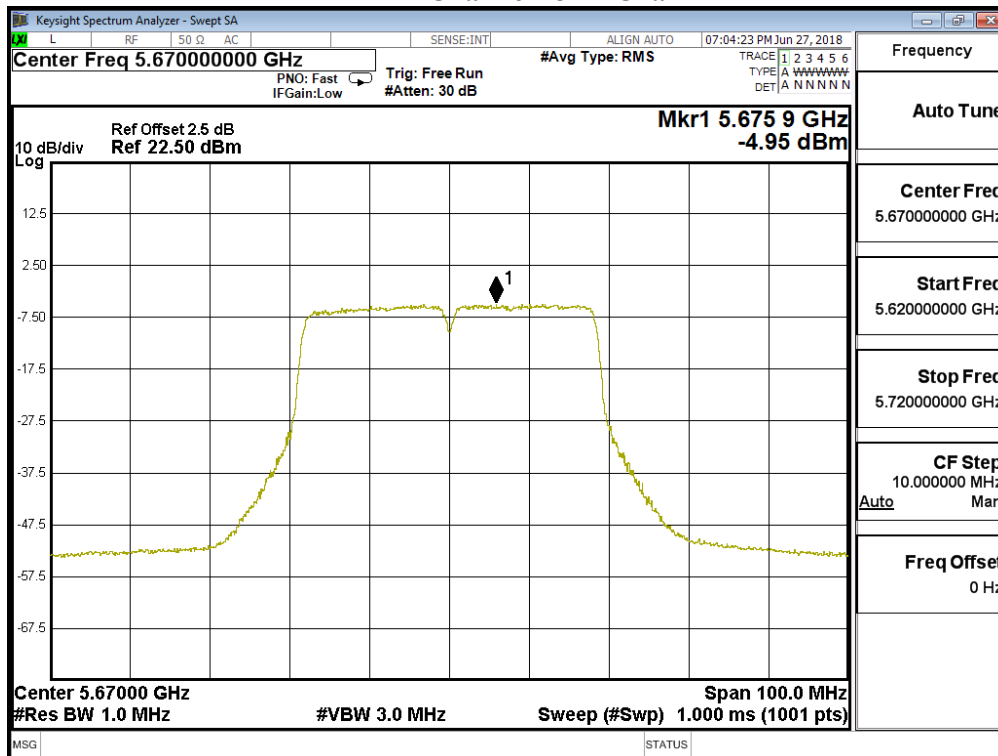
Channel 102 – Chain D



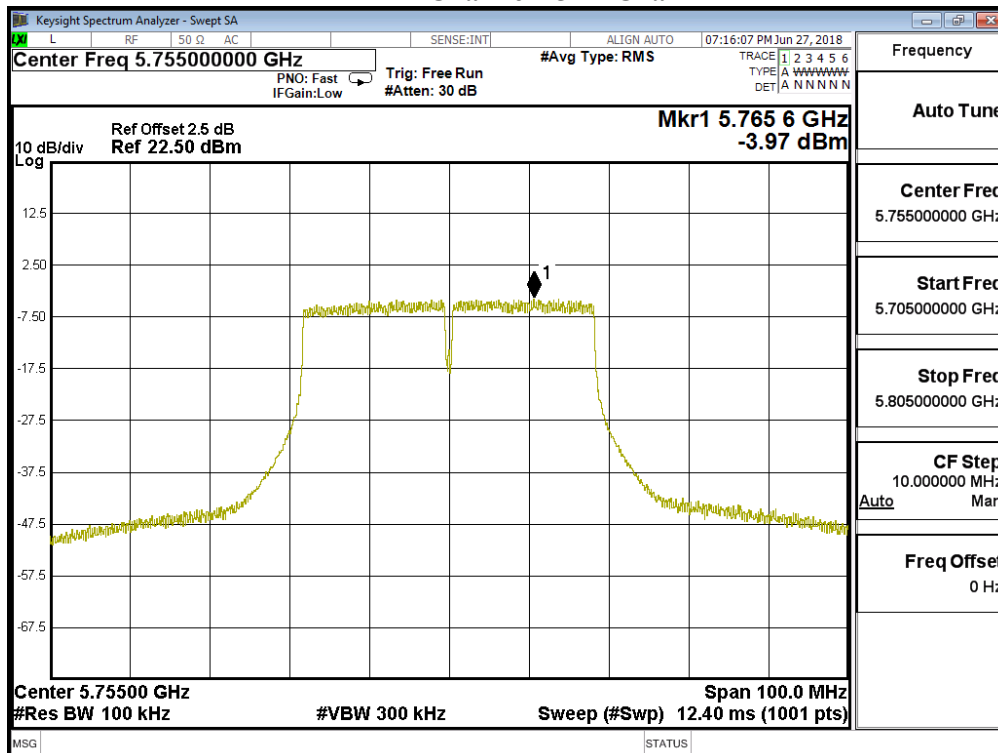
Channel 110 – Chain D



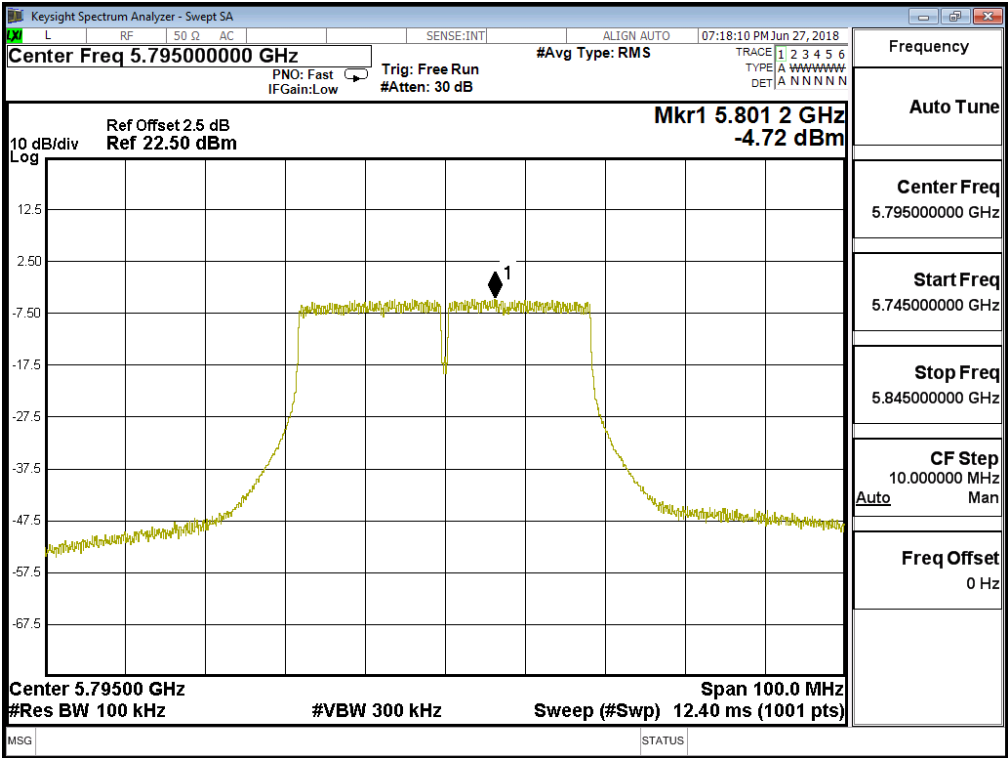
Channel 134 – Chain D



Channel 151 – Chain D



Channel 159 – Chain D

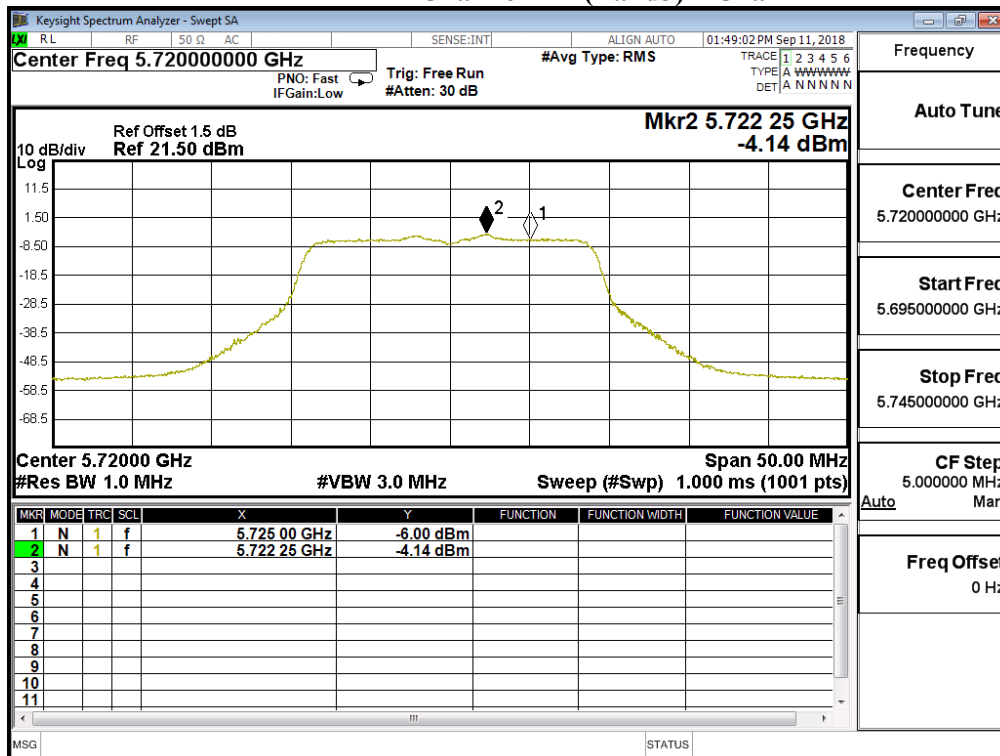


Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 4: Transmit (802.11ac-20BW-28.8Mbps) (Antenna No.18)

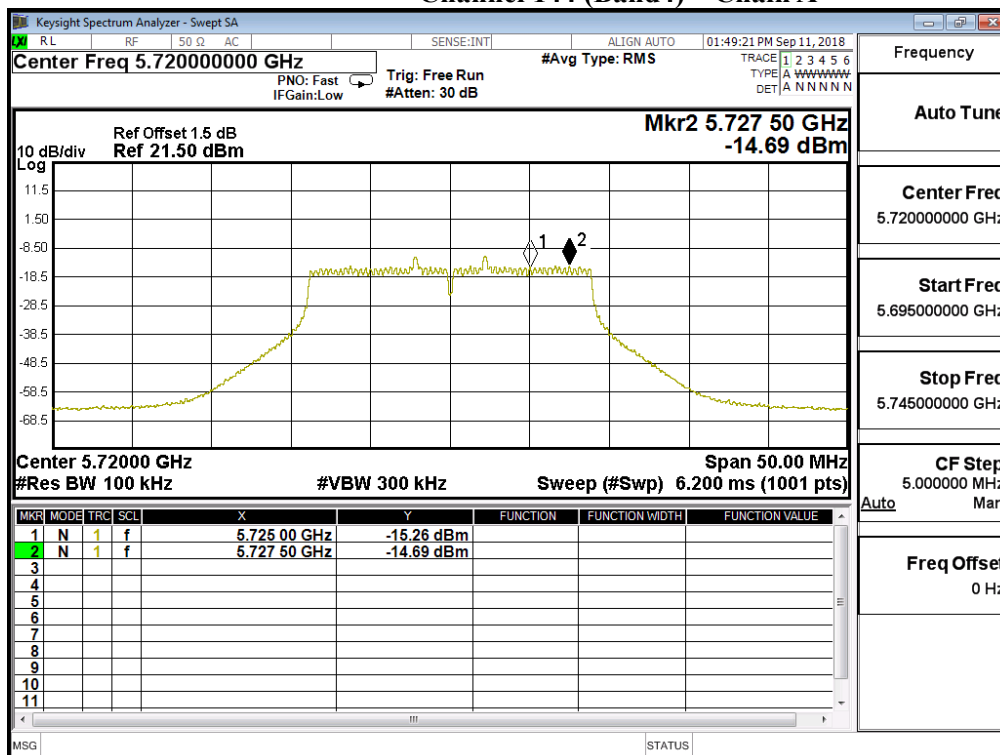
Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	BWCF (dB)	Total PSD (dBm) ¹	Required Limit (dBm)	Result
144	5720(Band3)	A	-4.140	--	1.880	<2	Pass
		B	-4.440	--	1.580	<2	Pass
		C	-4.320	--	1.700	<2	Pass
		D	-4.340	--	1.680	<2	Pass
144	5720(Band4)	A	-14.690	6.98	-1.690	<21	Pass
		B	-14.420	6.98	-1.420	<21	Pass
		C	-14.730	6.98	-1.730	<21	Pass
		D	-15.180	6.98	-2.180	<21	Pass

Note 1: The quantity $10 \cdot \log 4$ (four antennas) is added to the spectrum peak value according to document 662911 D01.

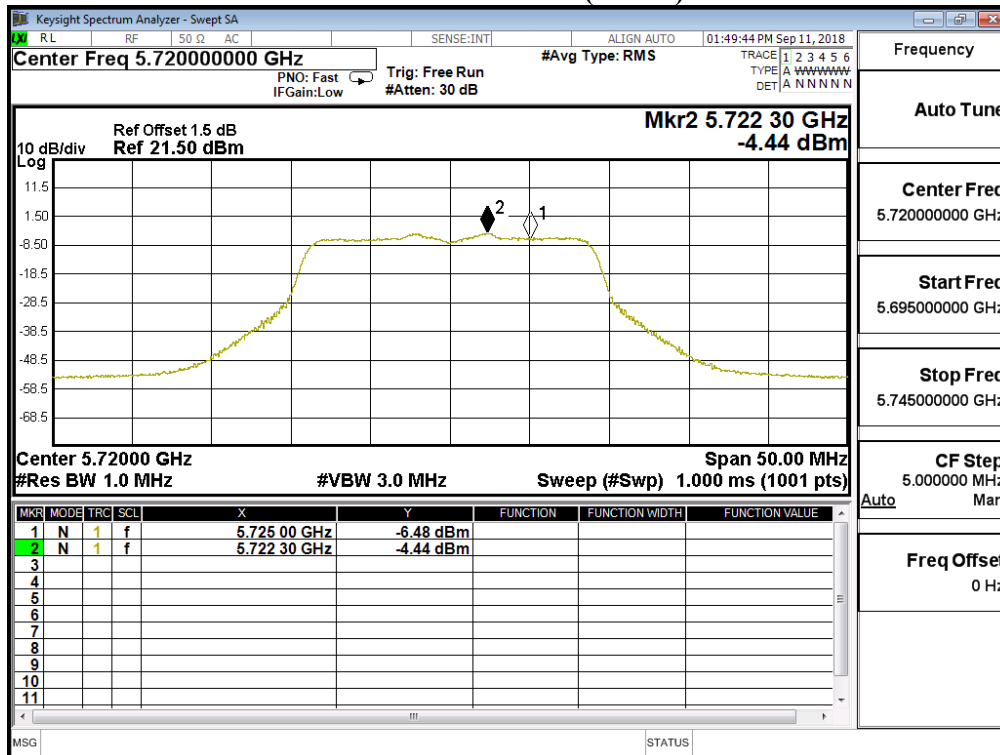
Channel 144 (Band3) – Chain A



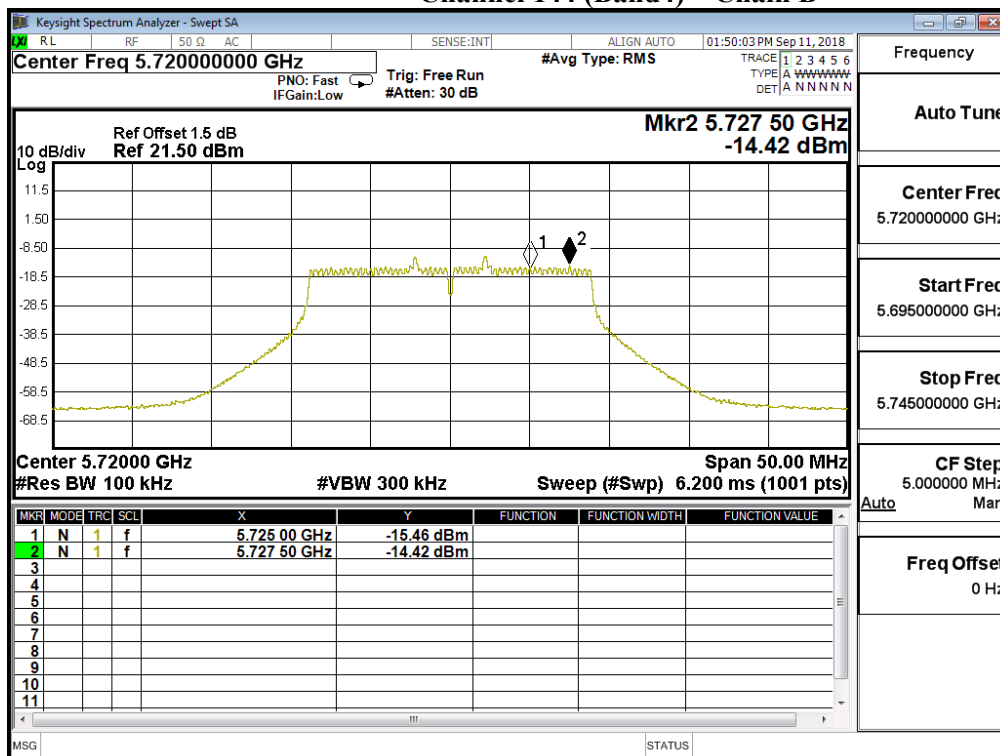
Channel 144 (Band4) – Chain A



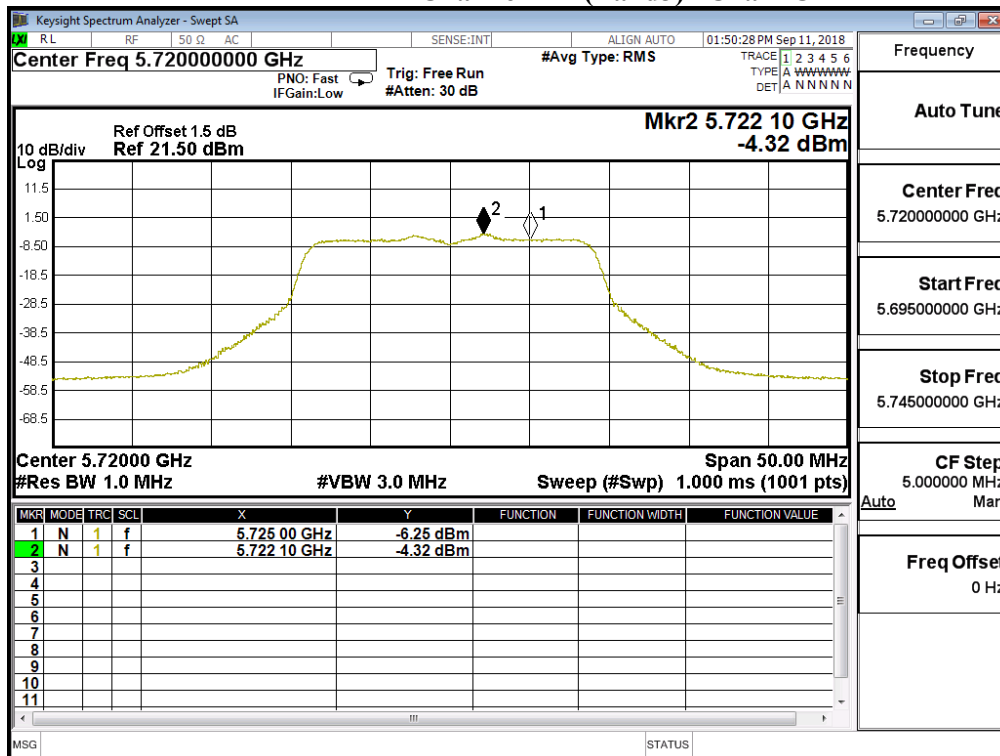
Channel 144 (Band3) – Chain B



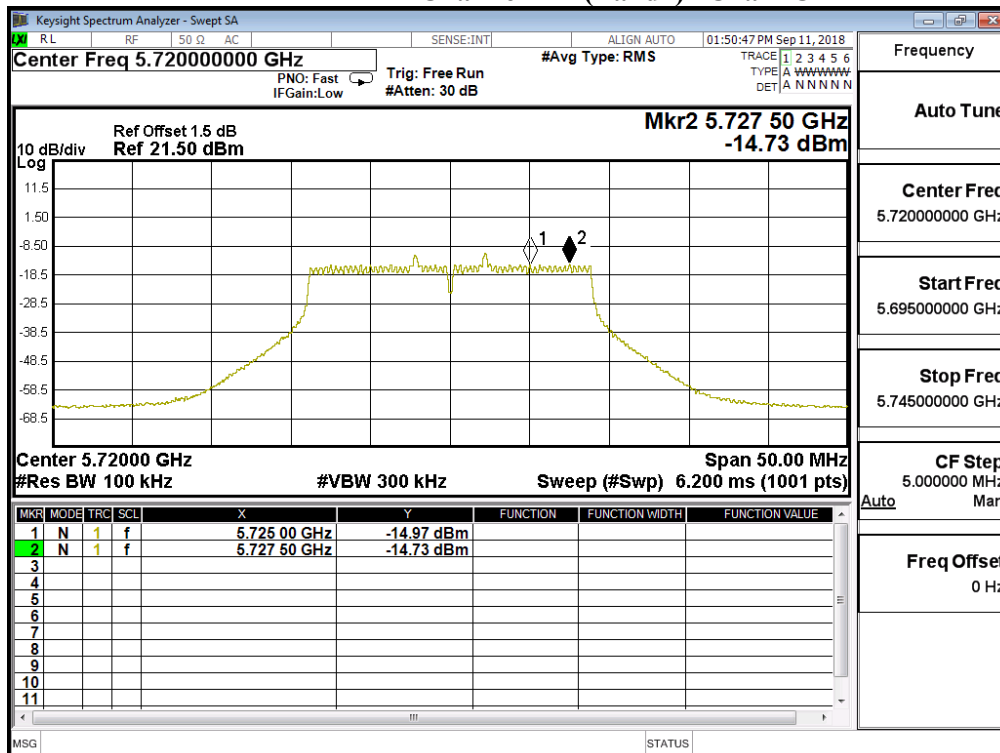
Channel 144 (Band4) – Chain B



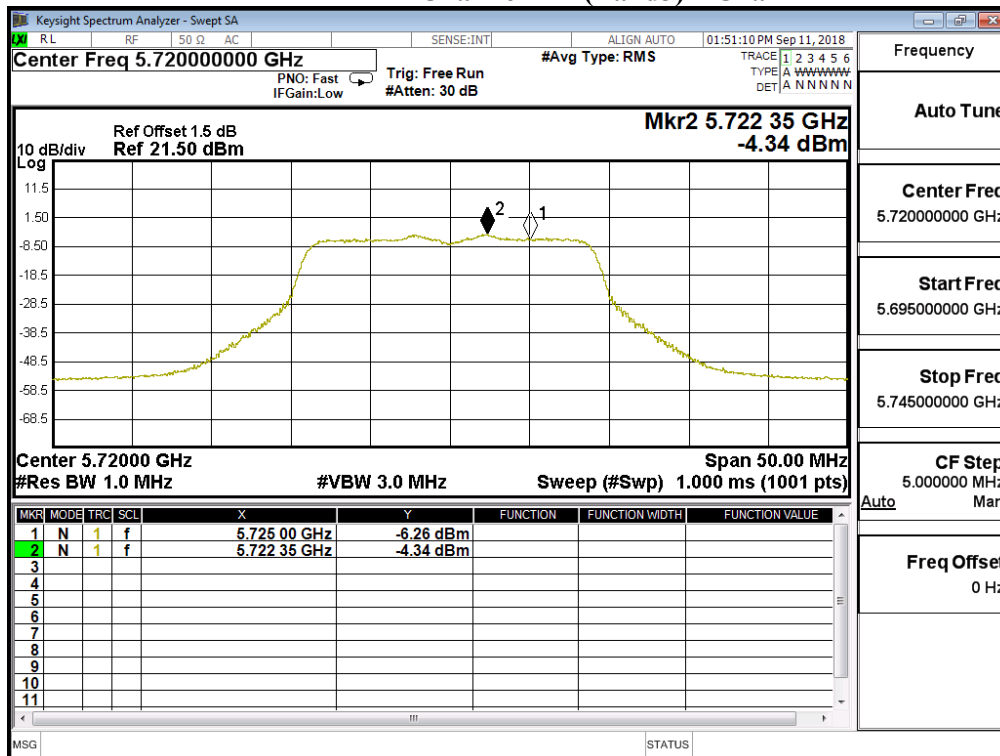
Channel 144 (Band3)– Chain C



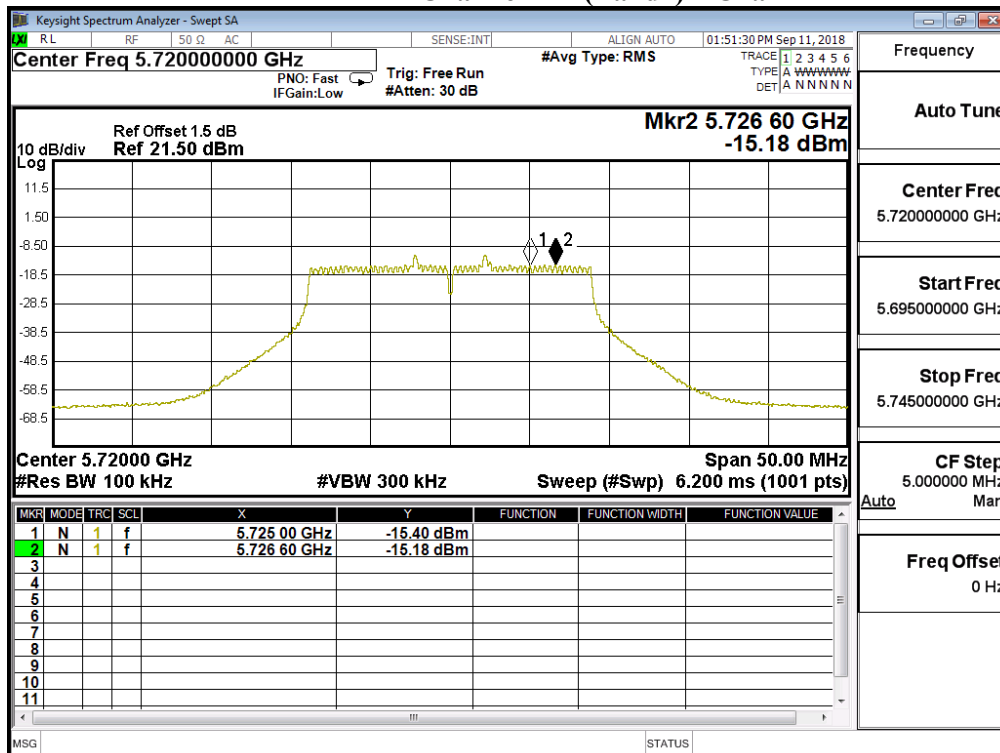
Channel 144 (Band4)– Chain C



Channel 144 (Band3) – Chain D



Channel 144 (Band4) – Chain D

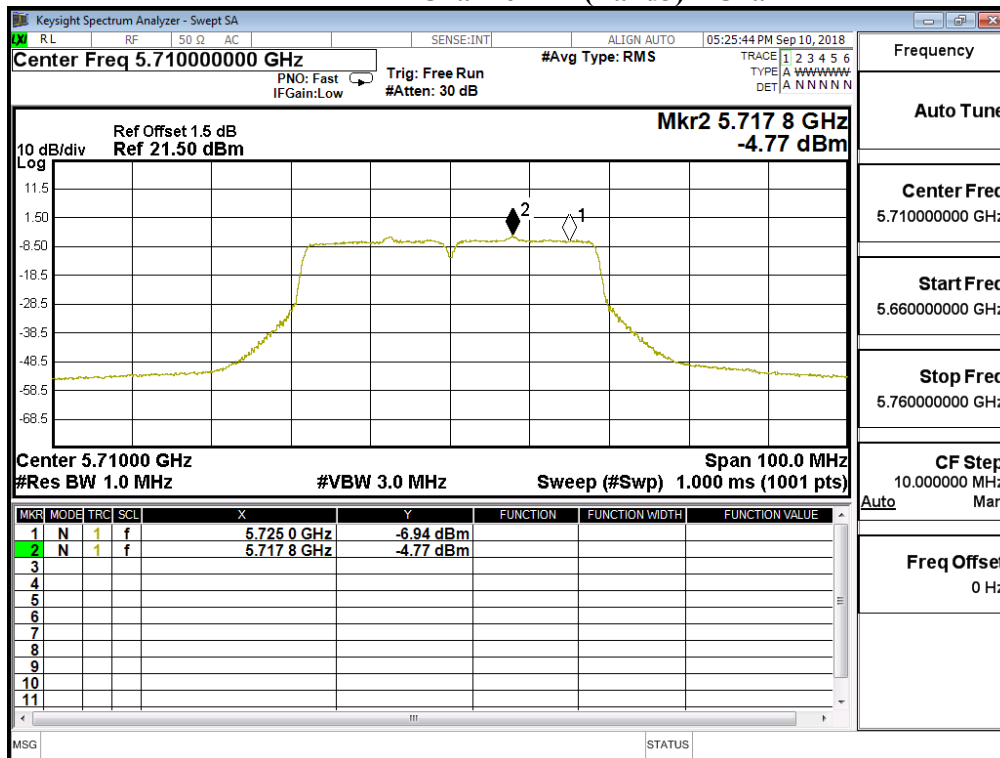


Product : MOXA IEEE 802.11a/n/ac 4*4 module
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Date : 2018/08/11
 Test Mode : Mode 5: Transmit (802.11ac-40BW-60Mbps) (Antenna No.18)

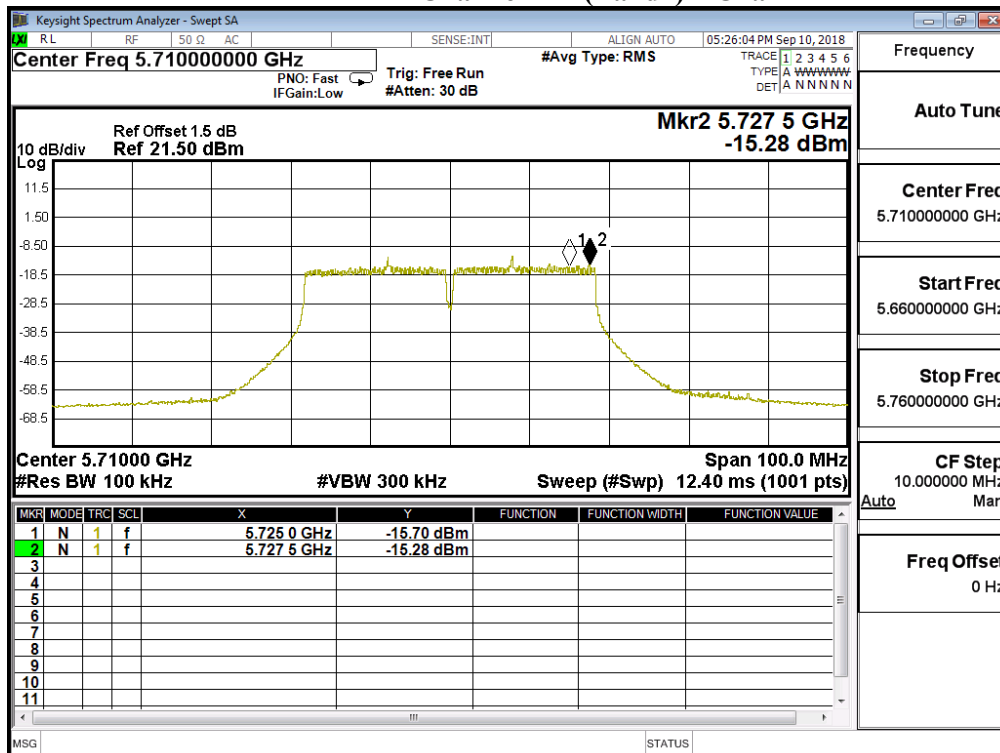
Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm) ¹	Required Limit (dBm)	Result
142	5710(Band3)	A	-4.770	--	1.250	<2	Pass
		B	-4.750	--	1.270	<2	Pass
		C	-4.660	--	1.360	<2	Pass
		D	-4.750	--	1.270	<2	Pass
142	5710(Band4)	A	-15.280	6.98	-2.280	<21	Pass
		B	-15.650	6.98	-2.650	<21	Pass
		C	-15.590	6.98	-2.590	<21	Pass
		D	-14.940	6.98	-1.940	<21	Pass

Note 1: The quantity $10 \cdot \log 4$ (four antennas) is added to the spectrum peak value according to document 662911 D01.

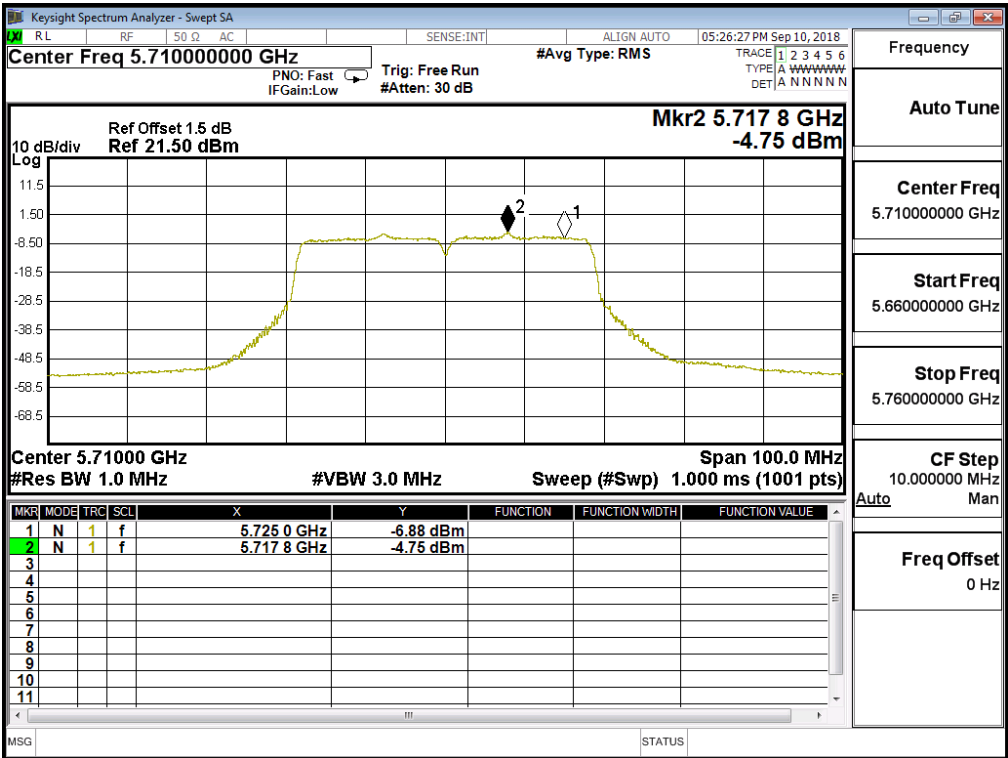
Channel 142 (Band3) – Chain A



Channel 142 (Band4) – Chain A



Channel 142 (Band3) – Chain B



Channel 142 (Band4) – Chain B

