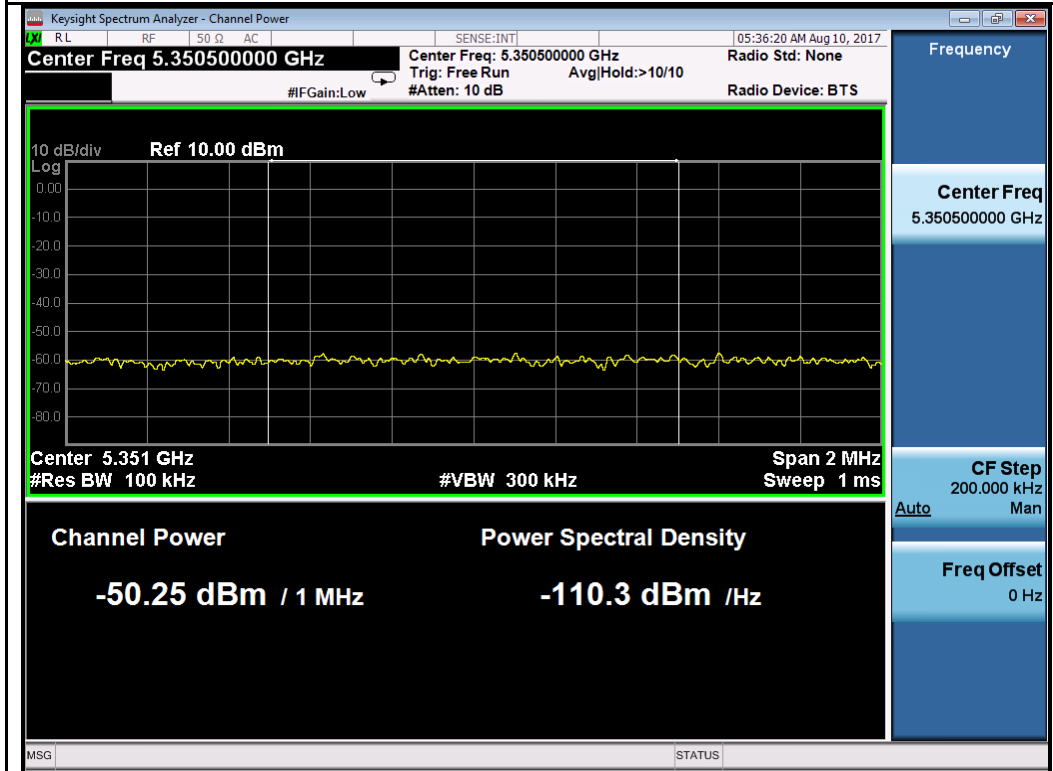
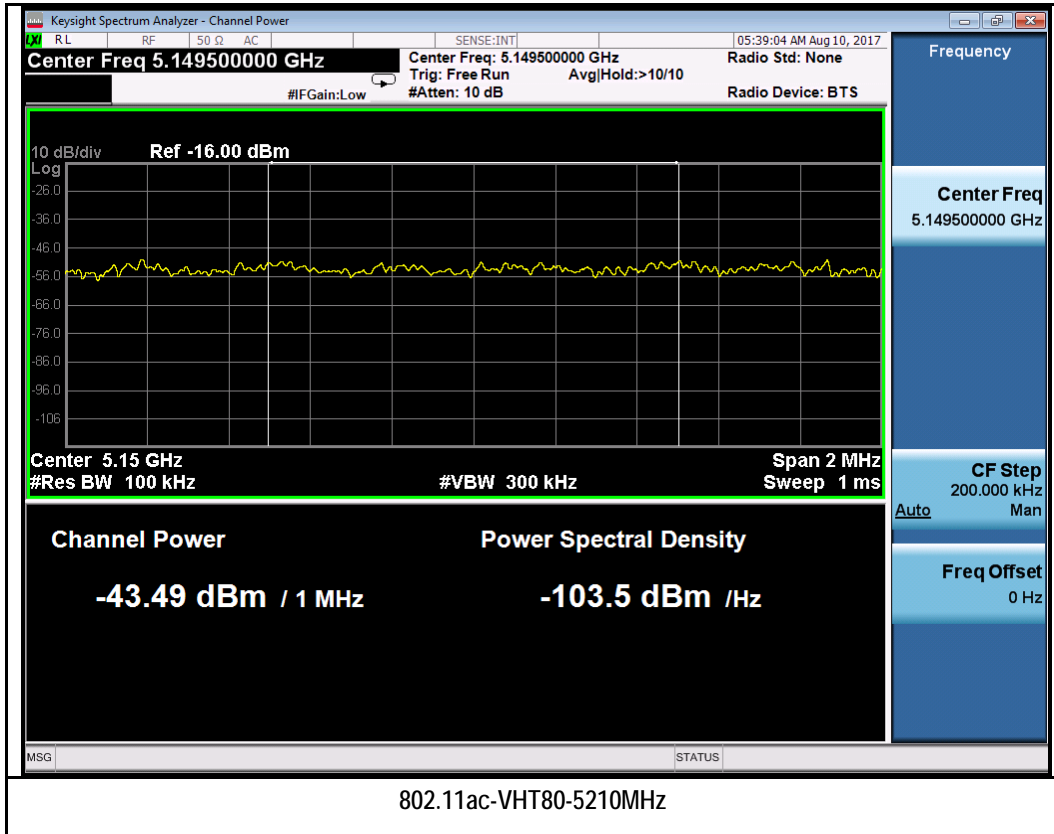


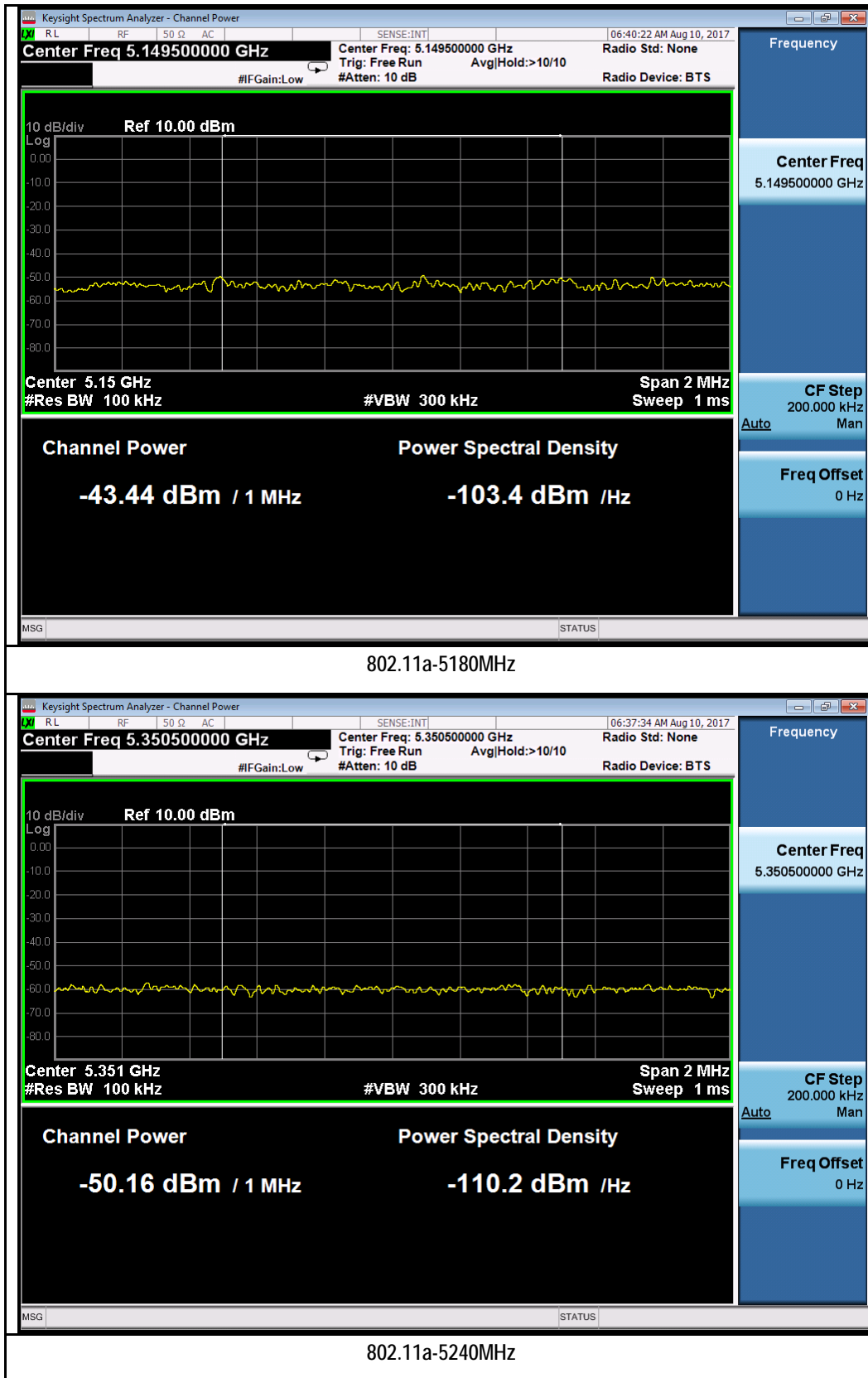
802.11n-HT40-5190MHz

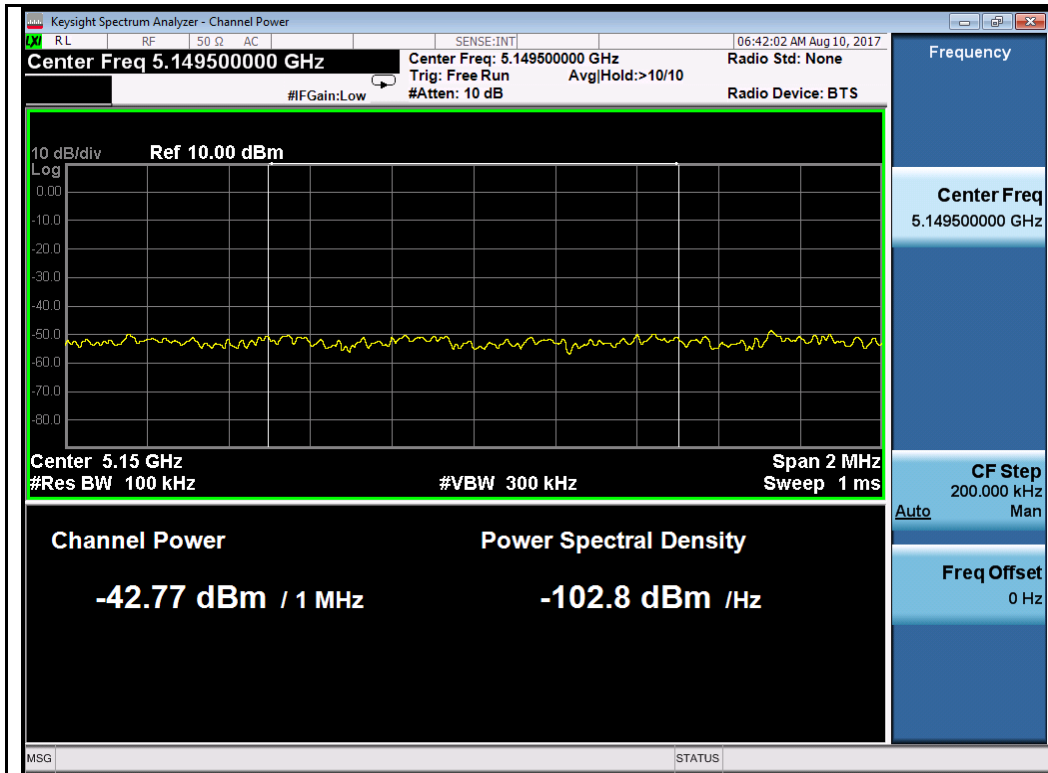


802.11n-HT40-5230MHz

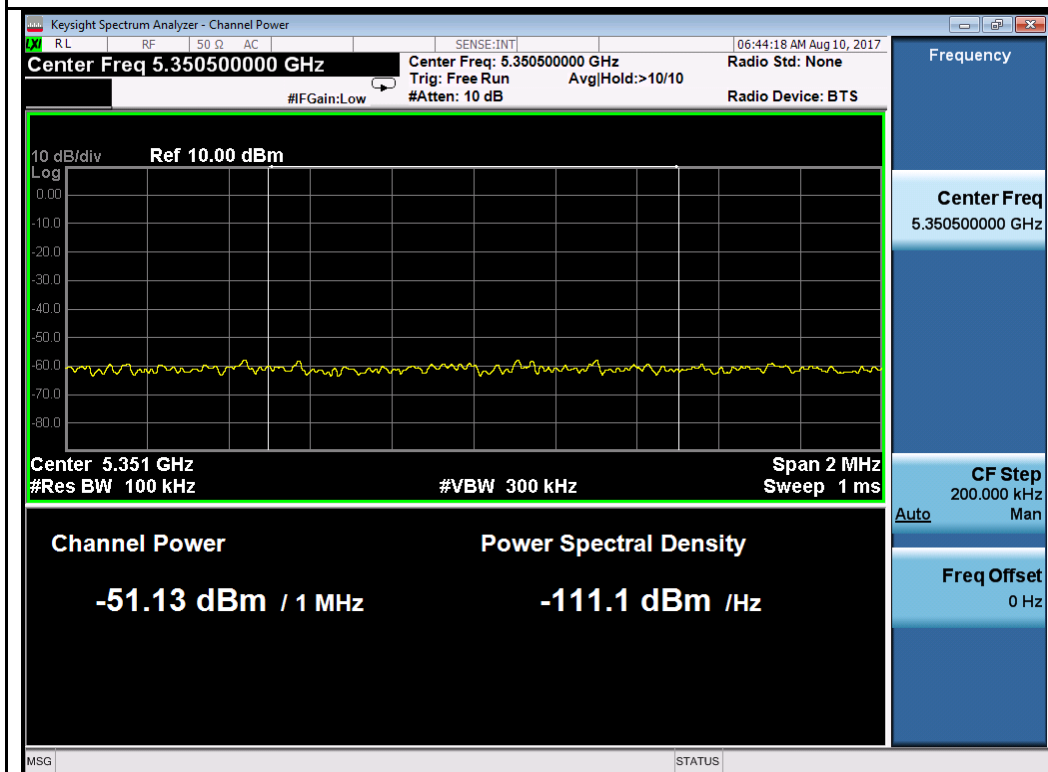


Chain 1:

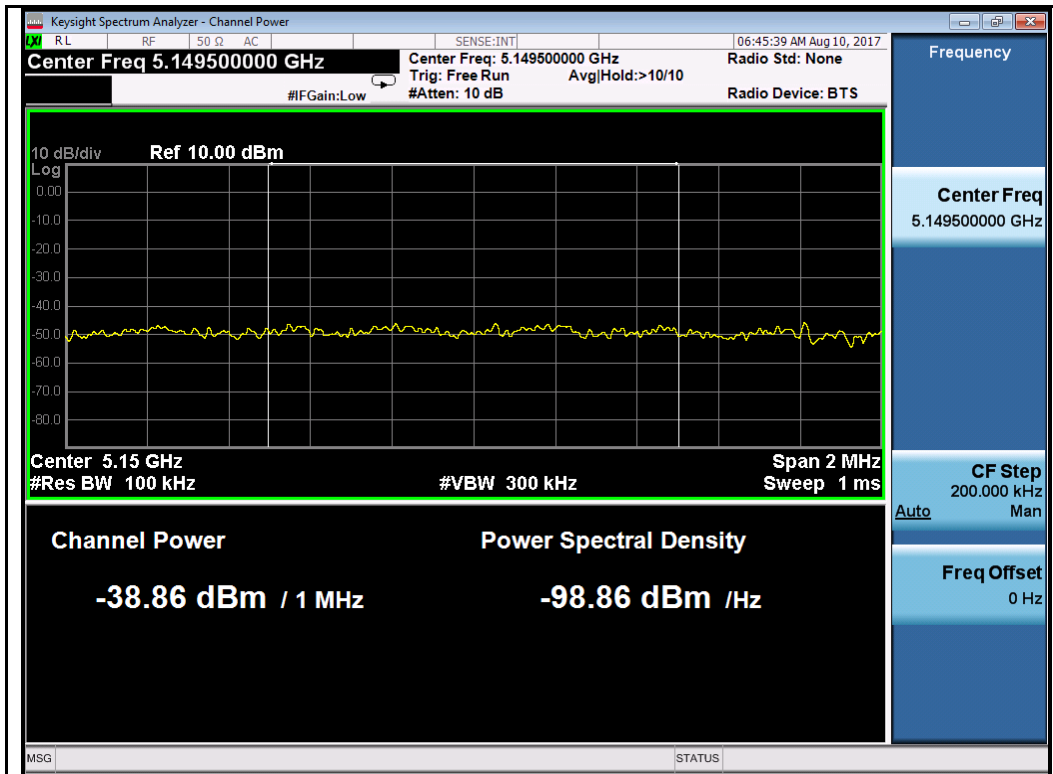




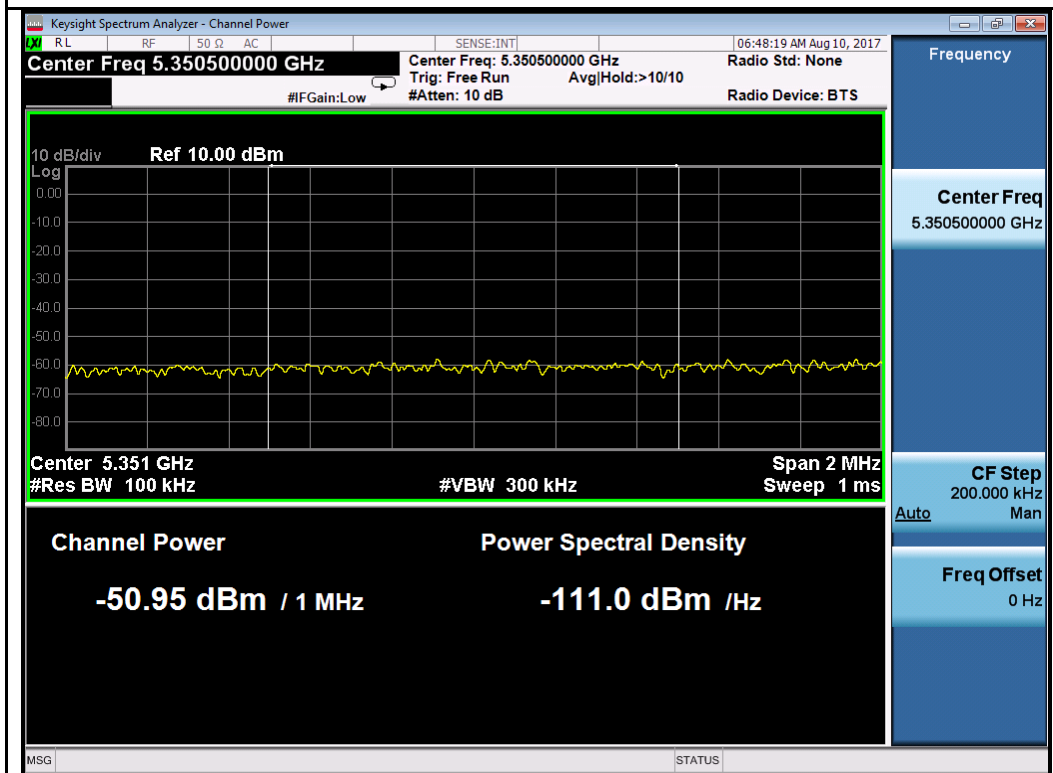
802.11n-HT20-5180MHz



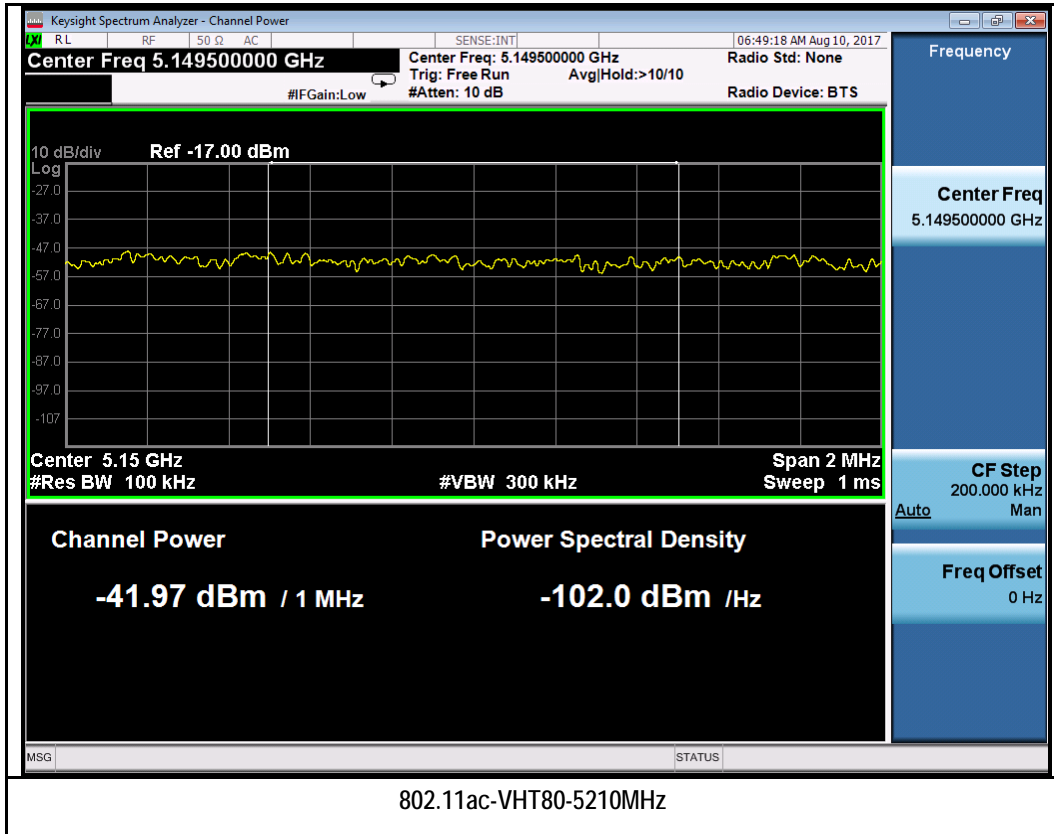
802.11n-HT20-5240MHz



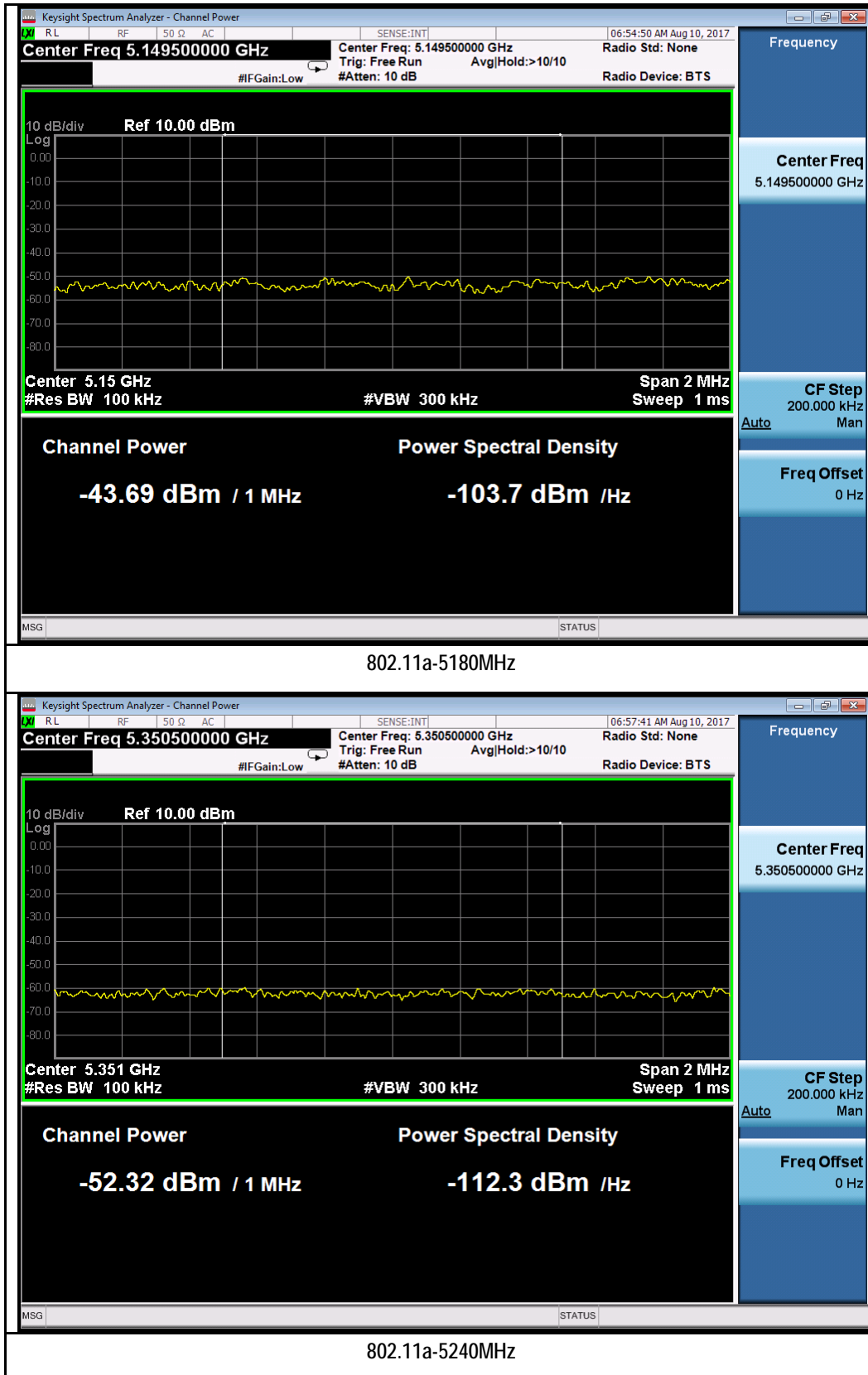
802.11n-HT40-5190MHz

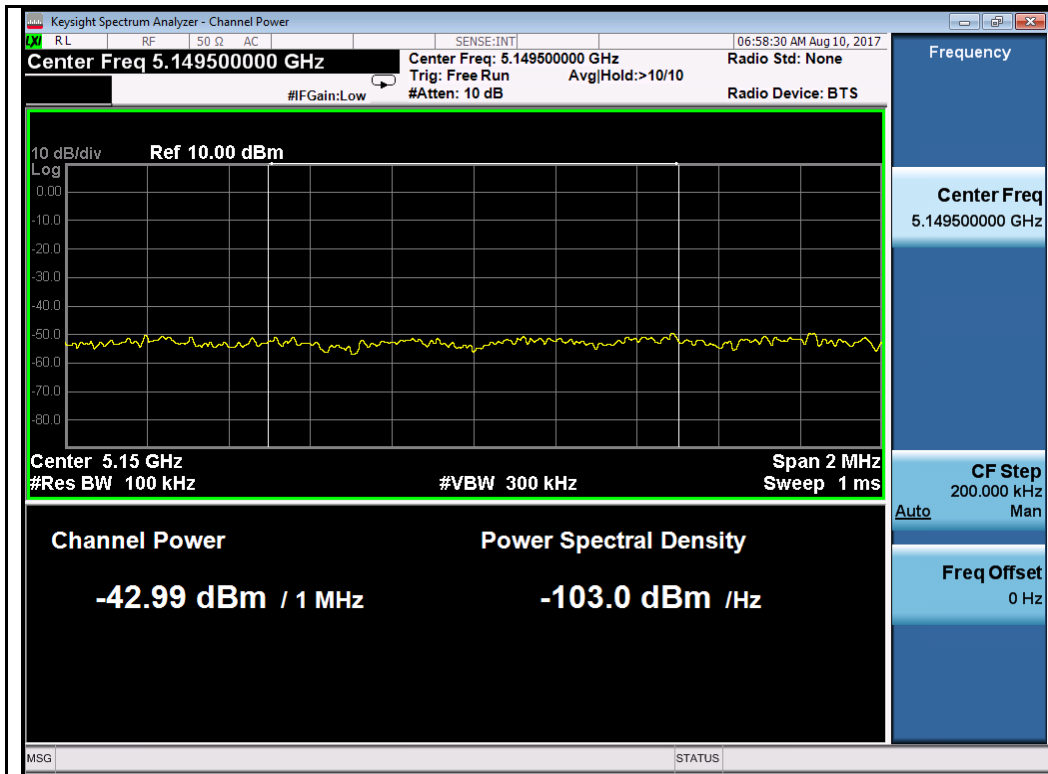


802.11n-HT40-5230MHz

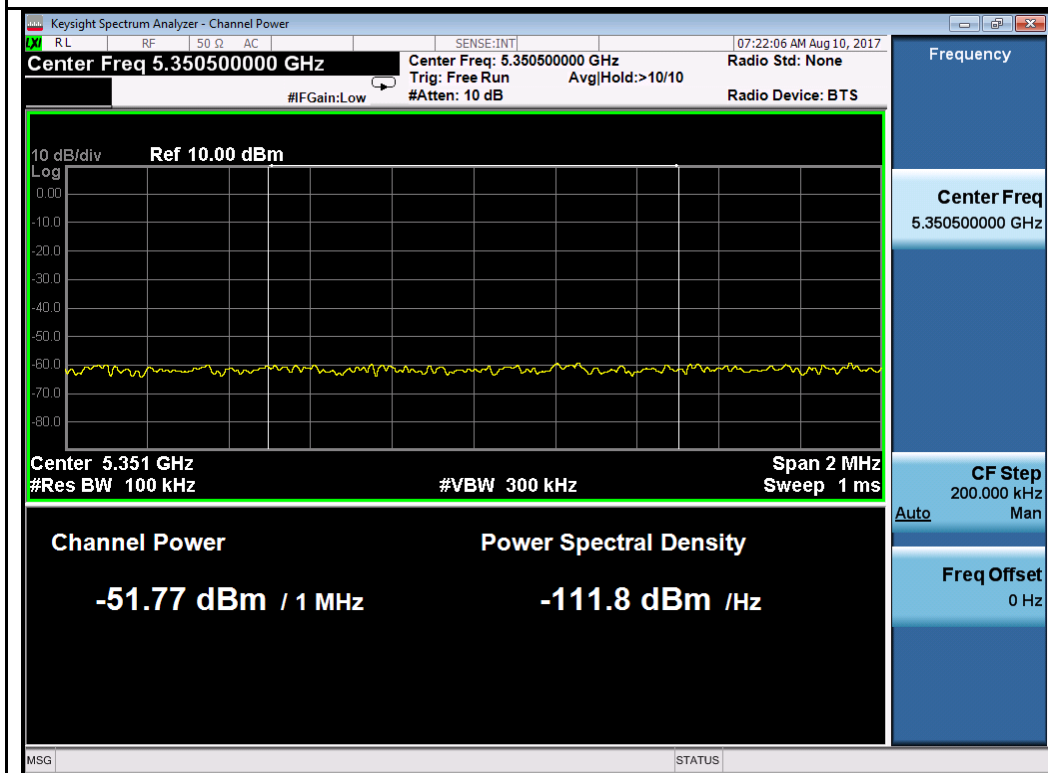


Chain 2:



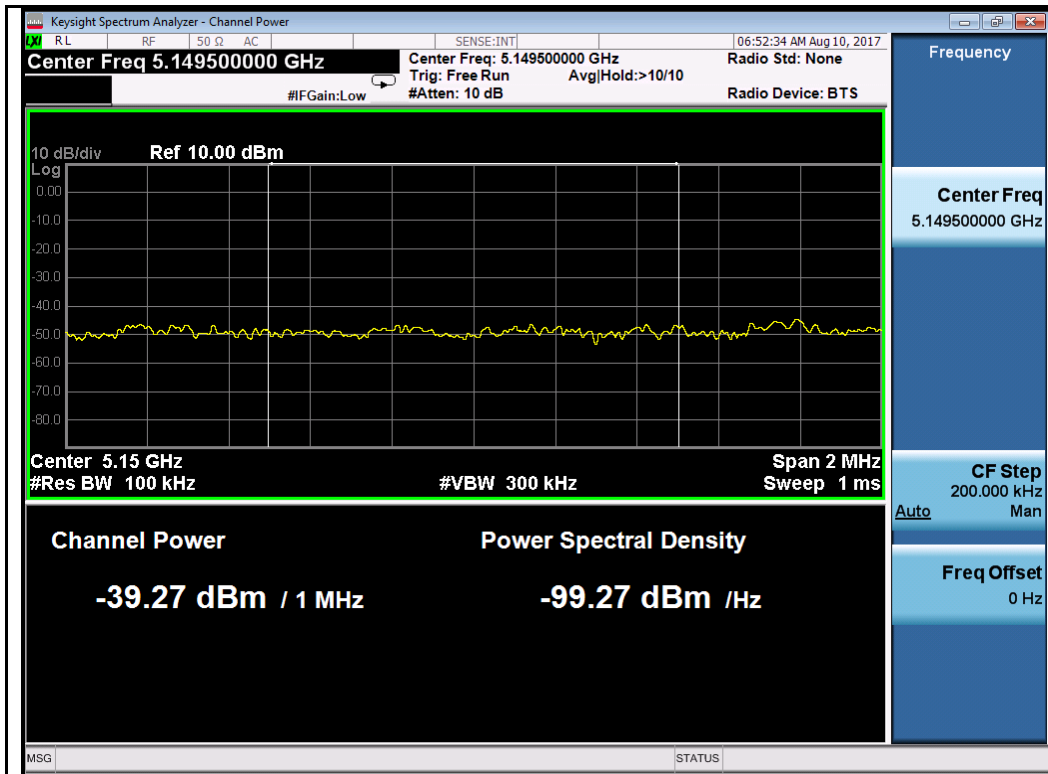


802.11n-HT20-5180MHz

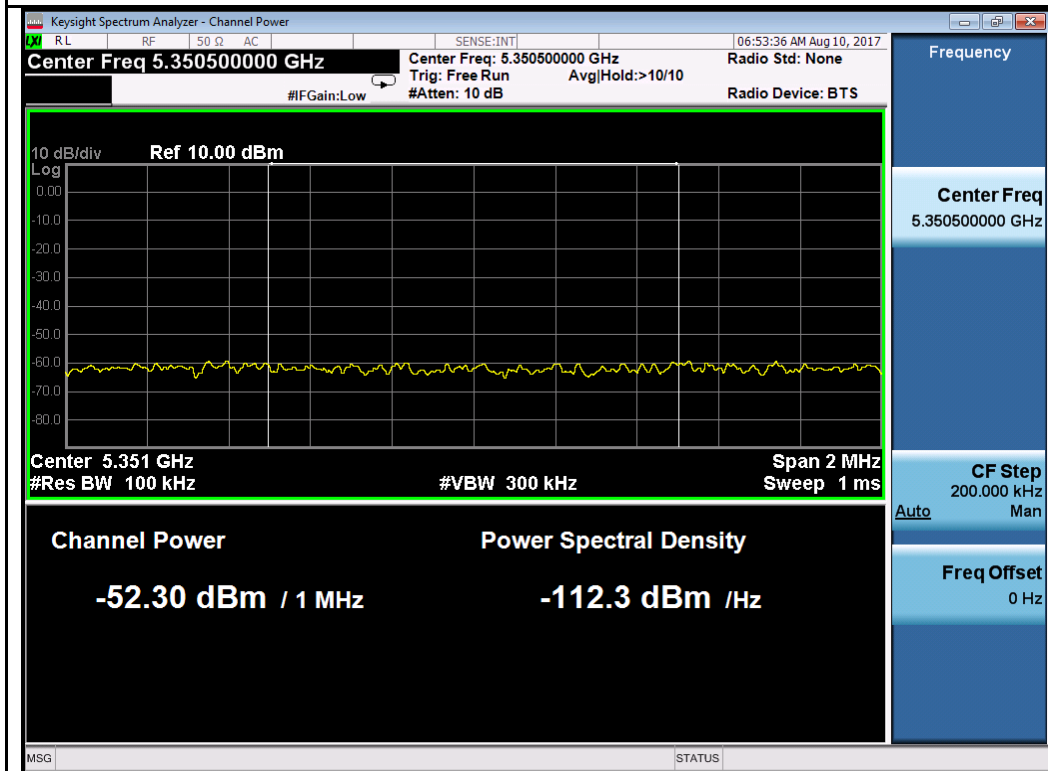


802.11n-HT20-5240MHz

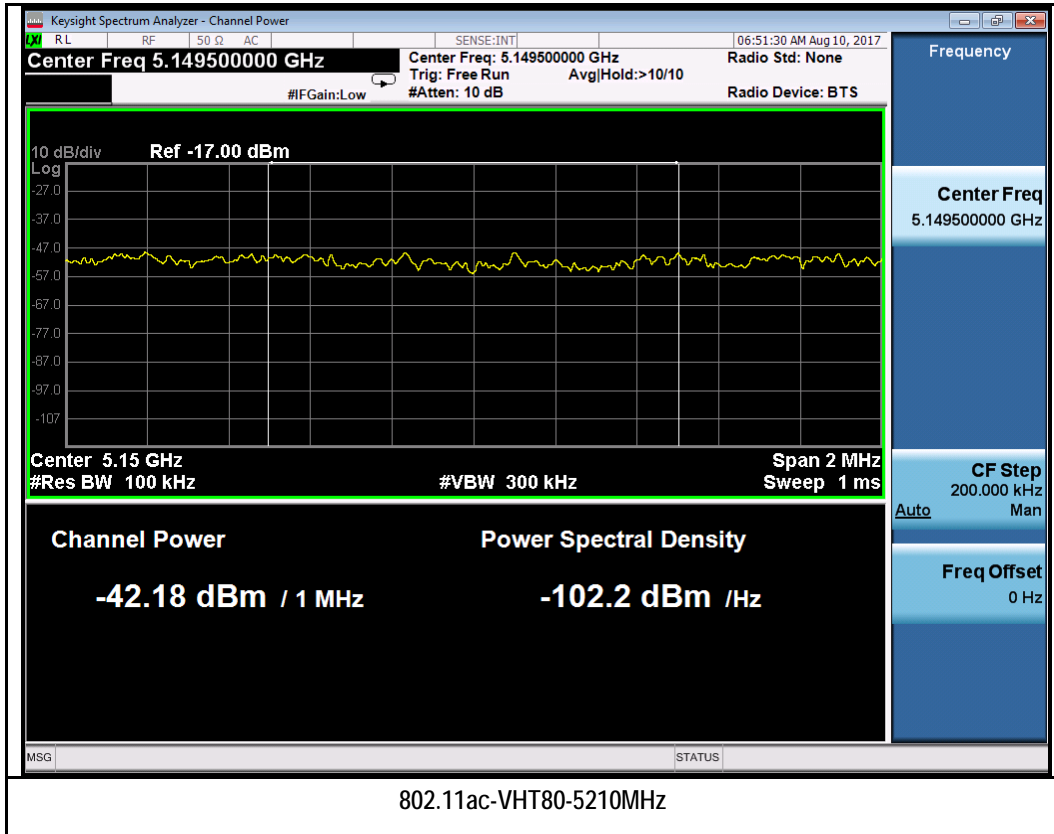




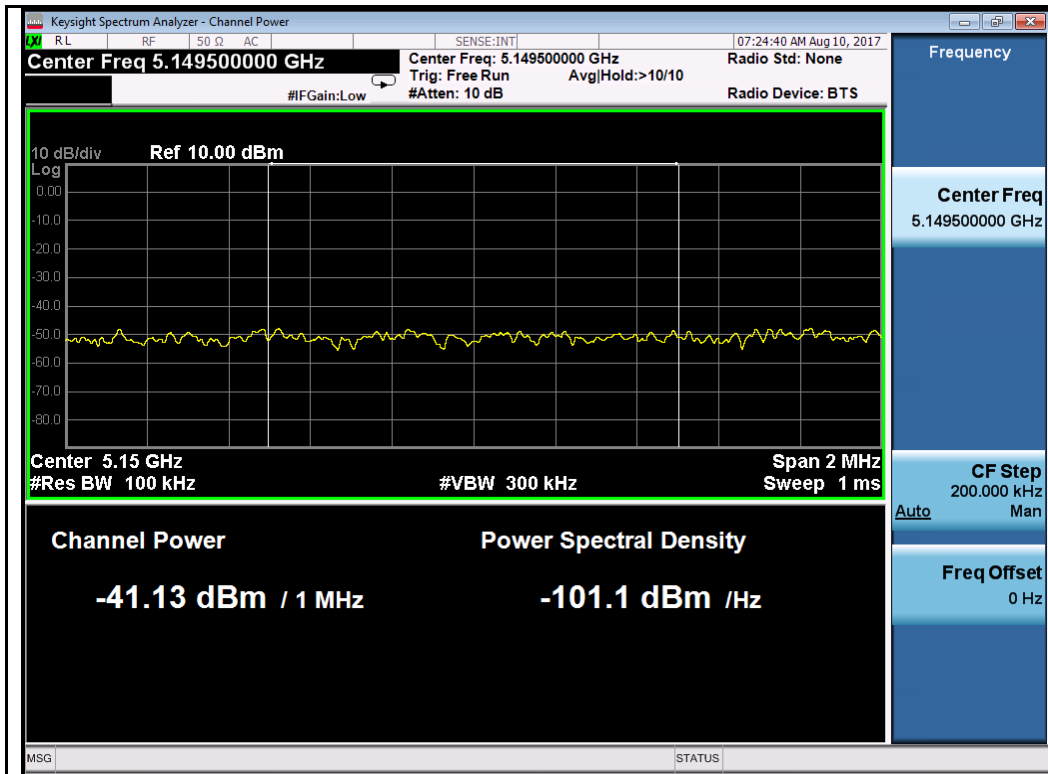
802.11n-HT40-5190MHz



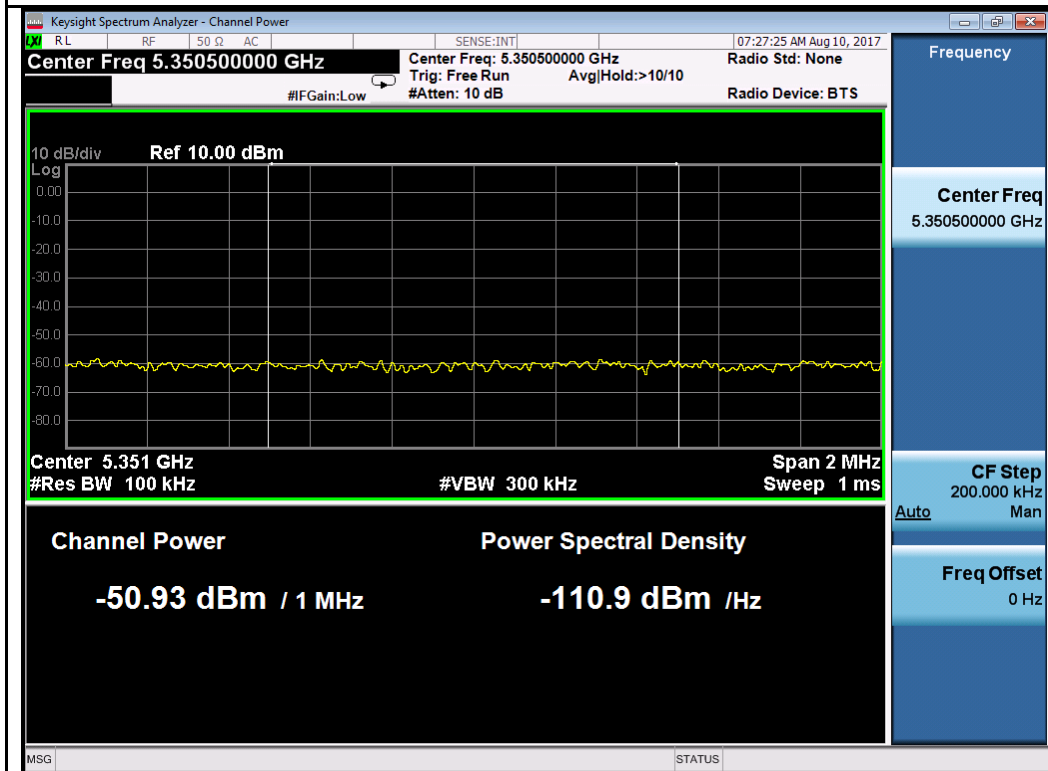
802.11n-HT40-5230MHz



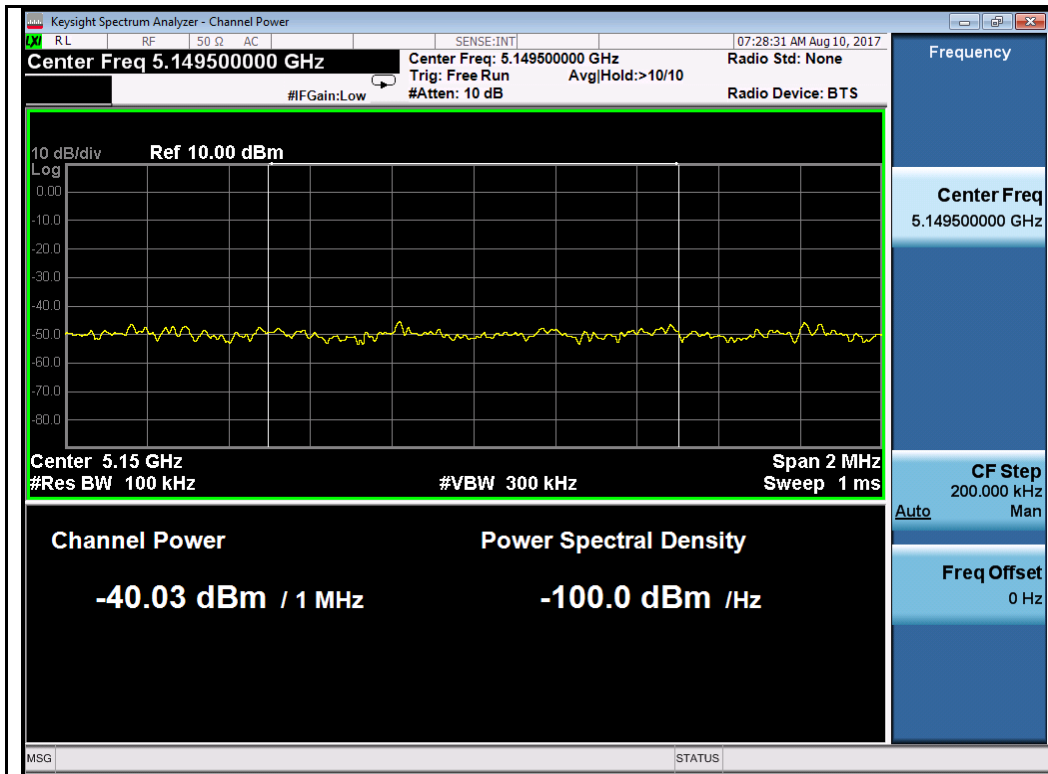
Chain 3:



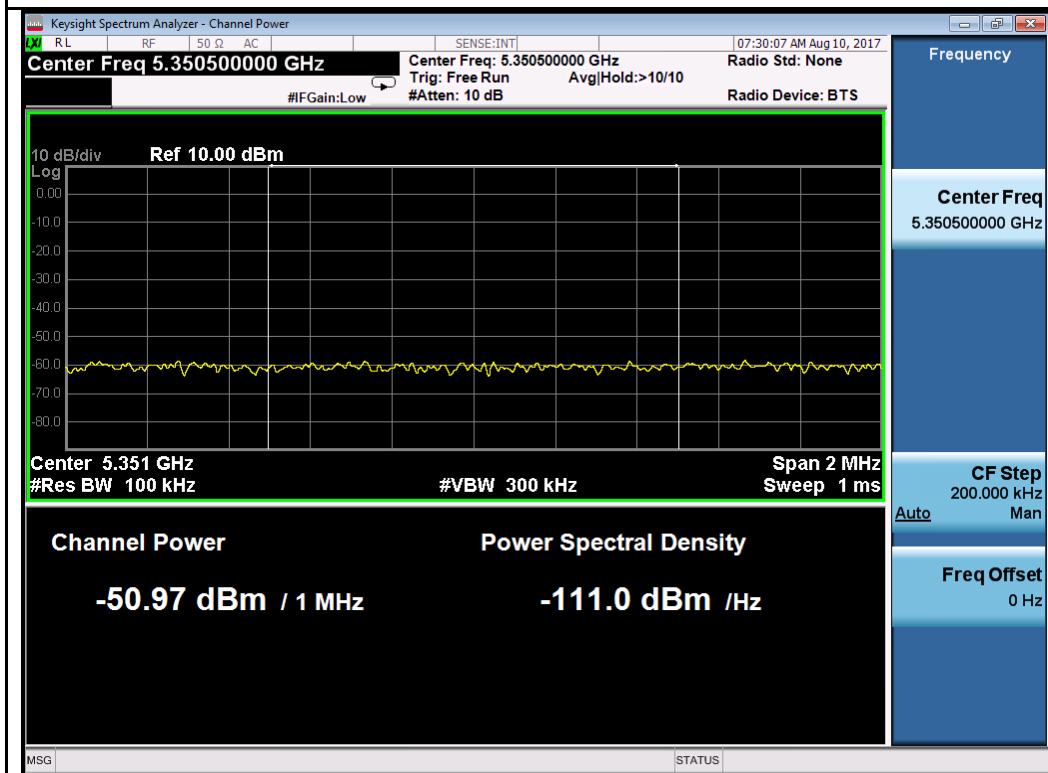
802.11a-5180MHz



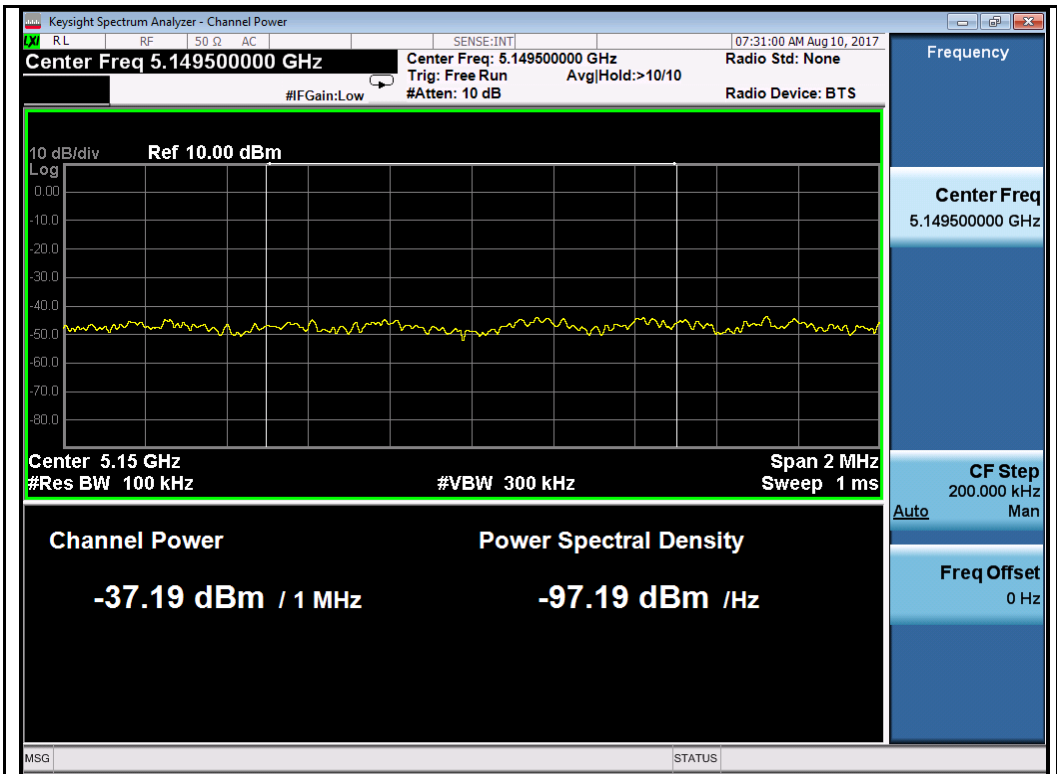
802.11a-5240MHz



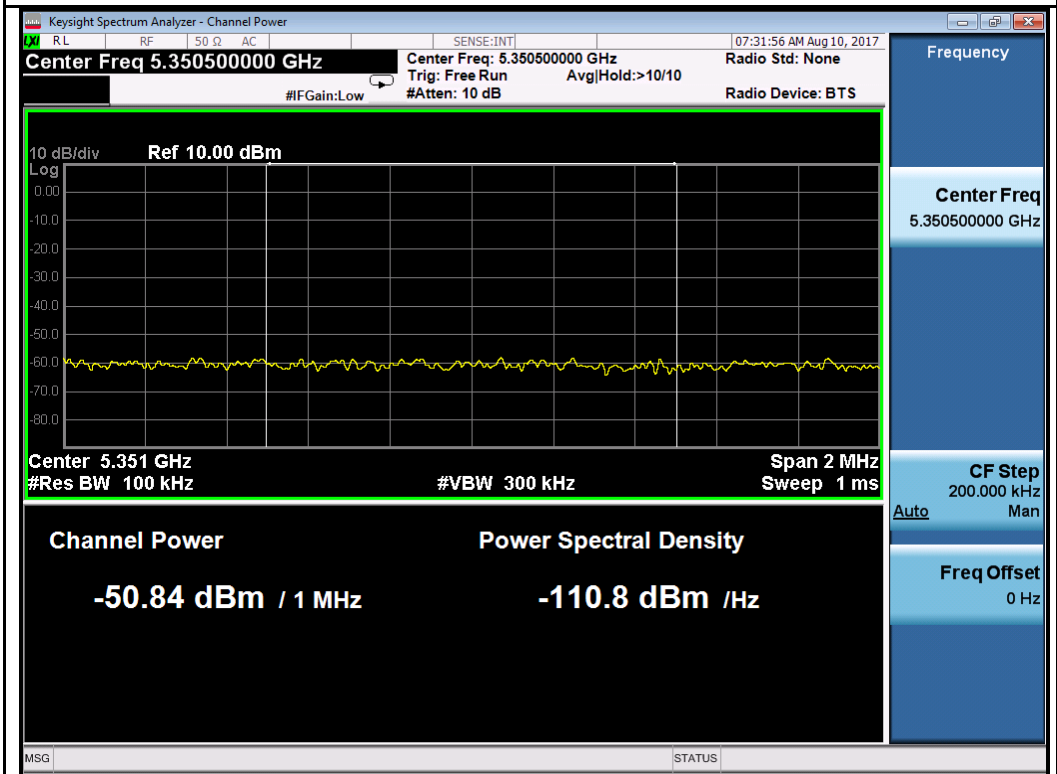
802.11n-HT20-5180MHz



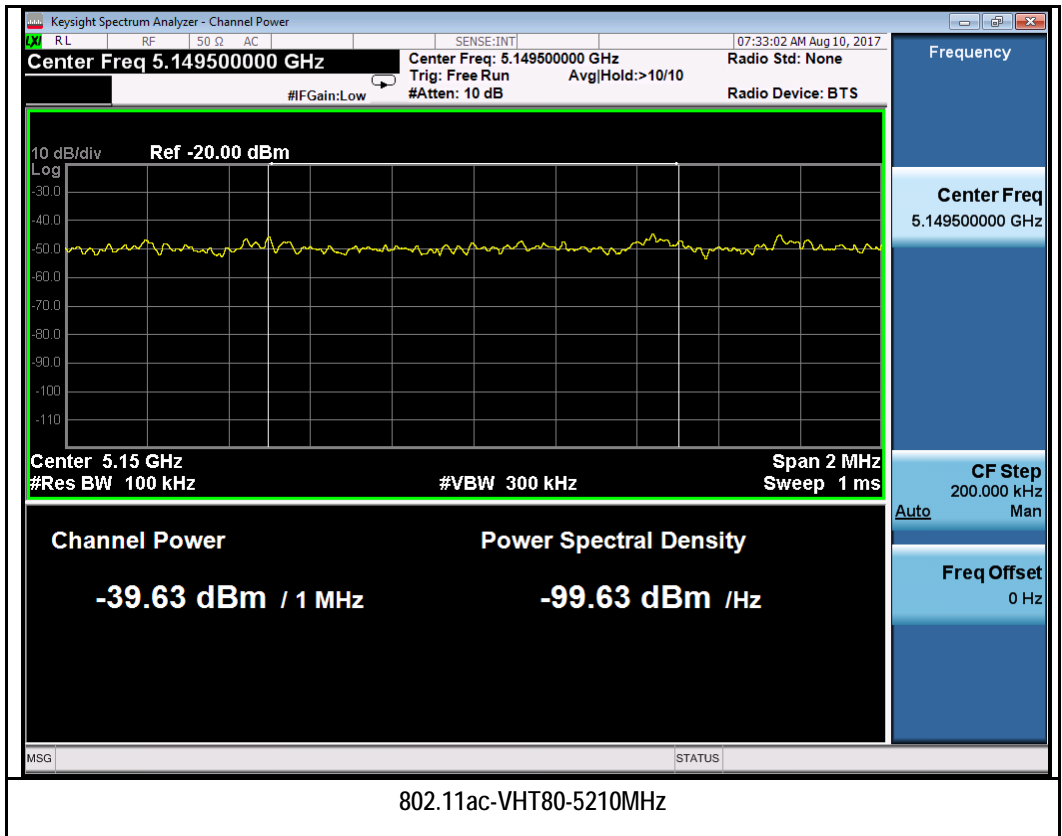
802.11n-HT20-5240MHz



802.11n-HT40-5190MHz

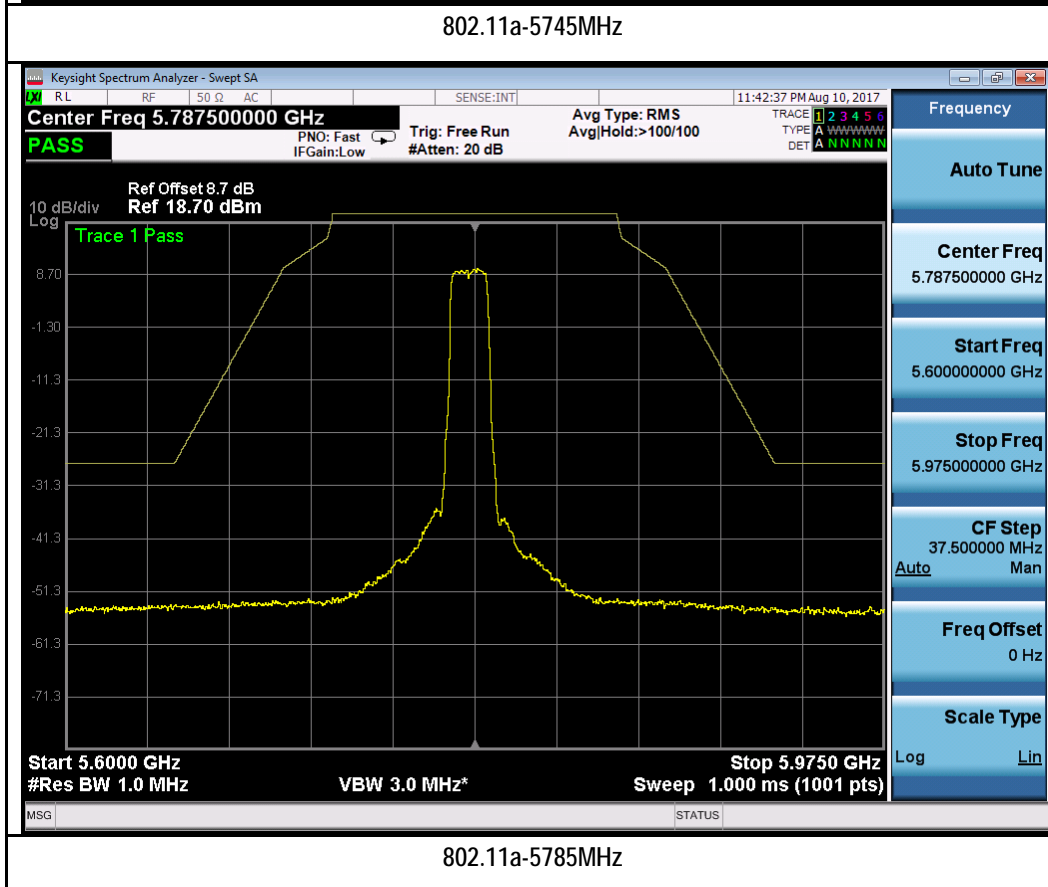
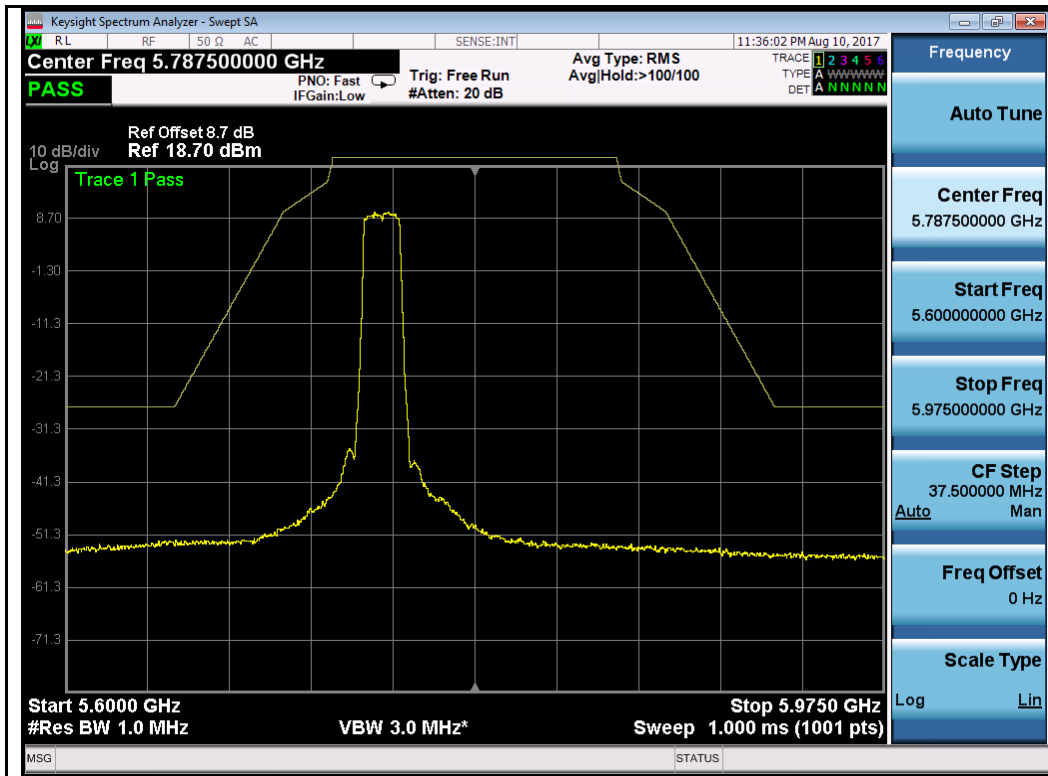


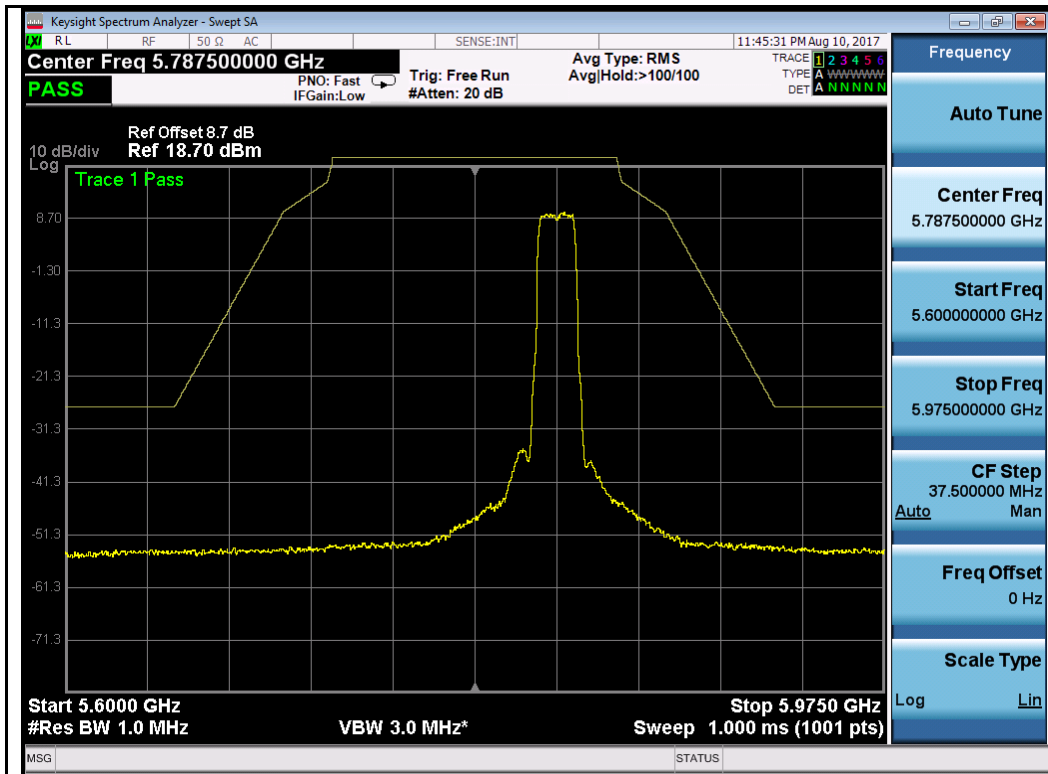
802.11n-HT40-5230MHz



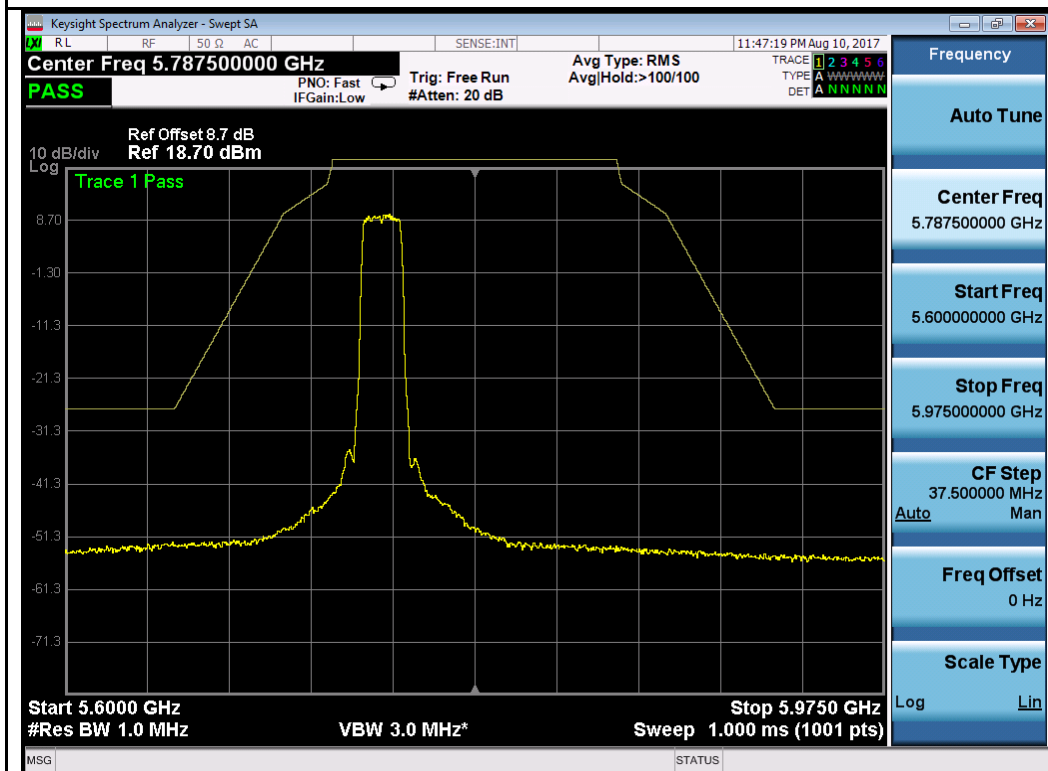
Test Plot for W58:

Chain 0:



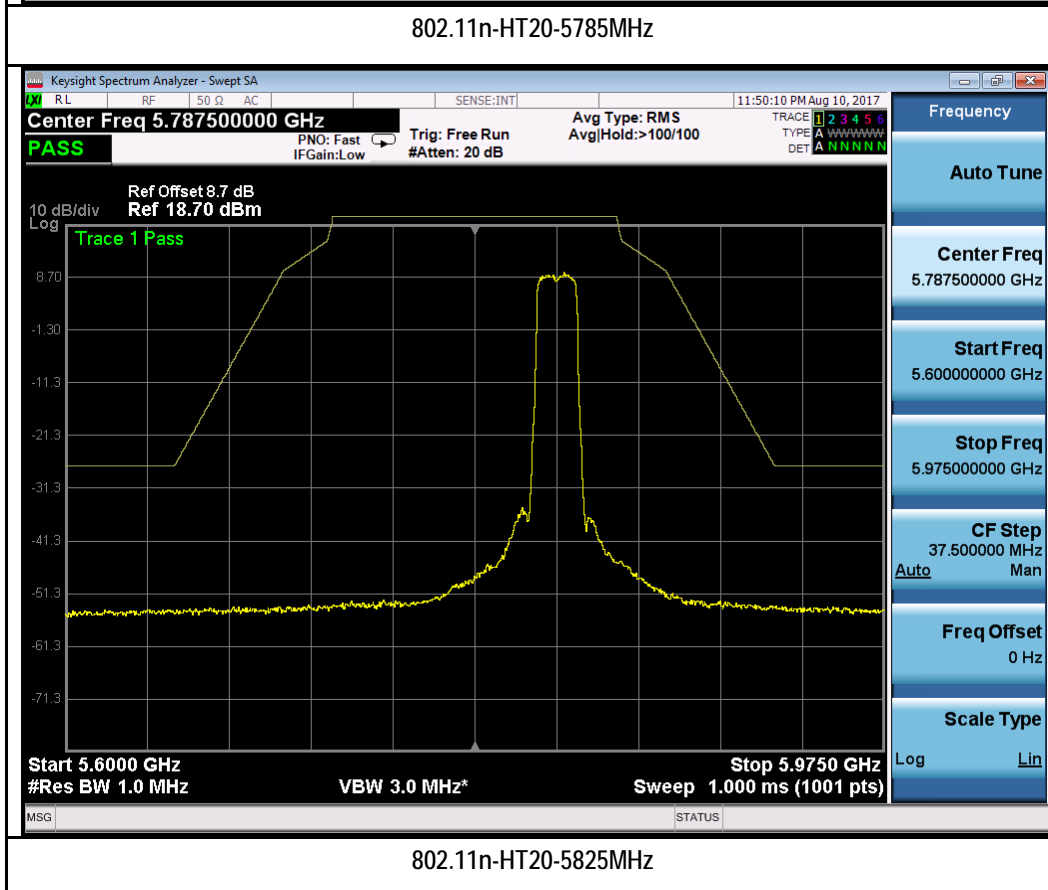
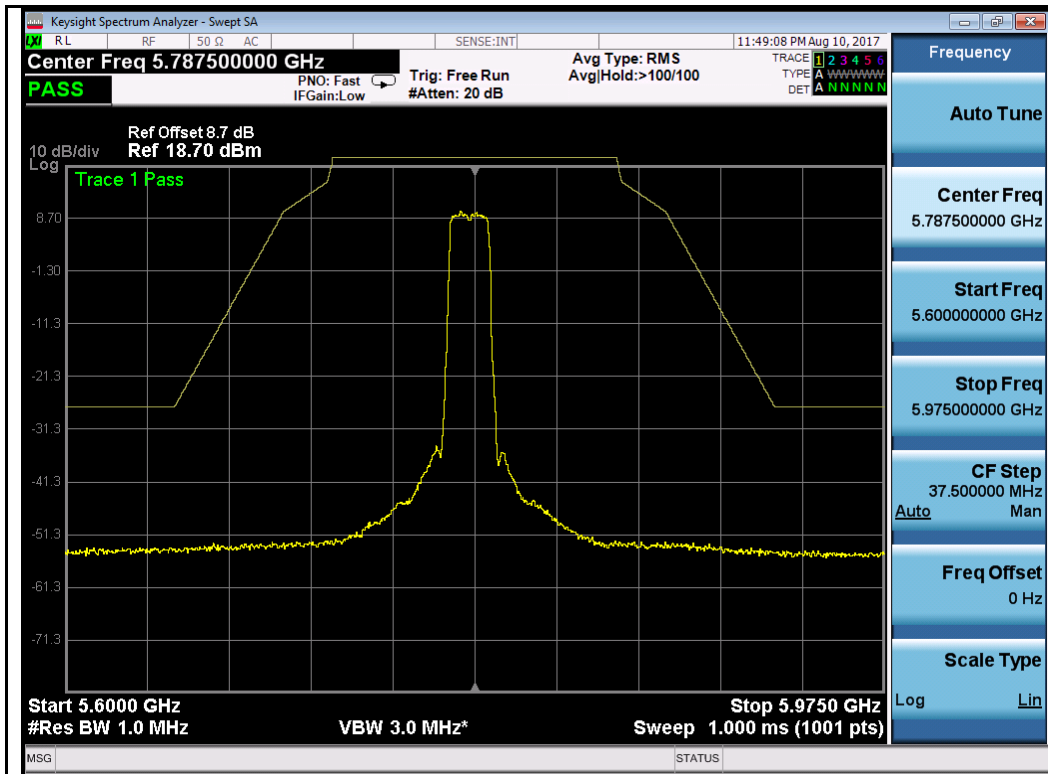


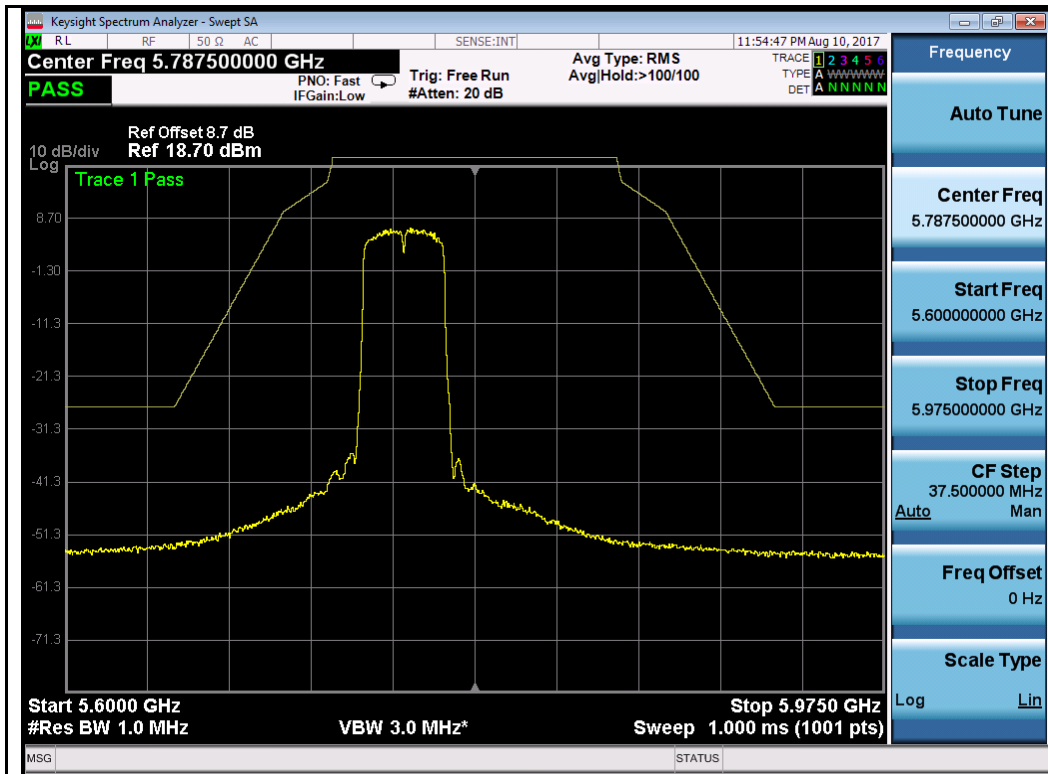
802.11a-5825MHz



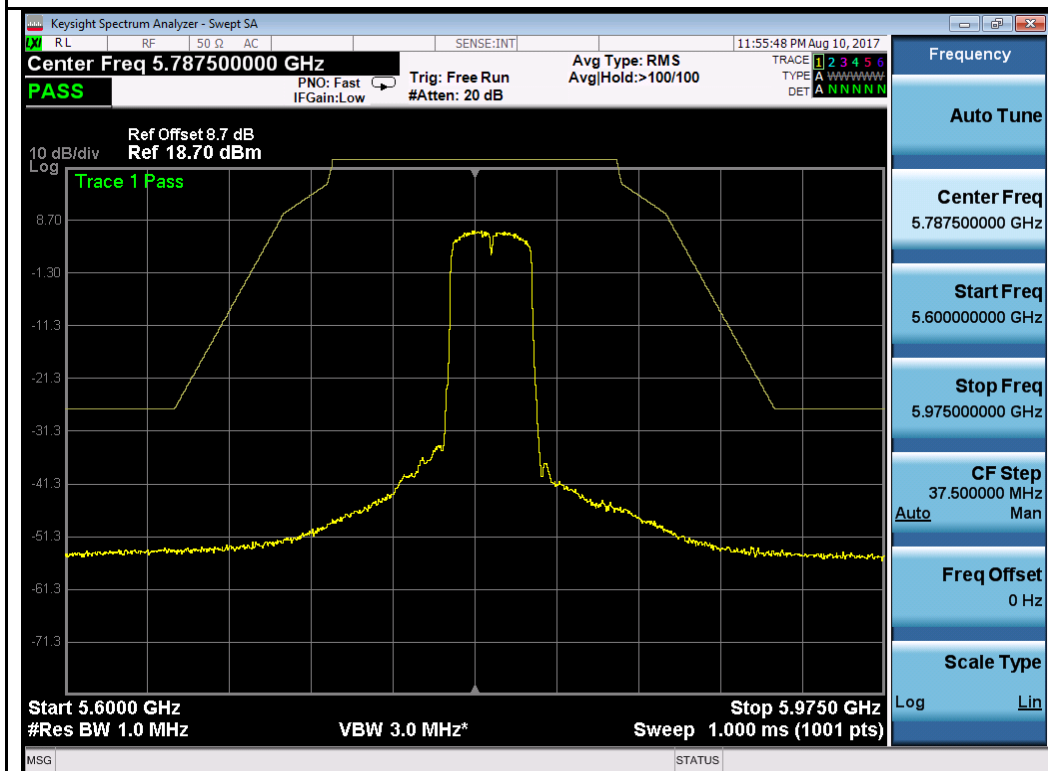
802.11n-HT20-5745MHz



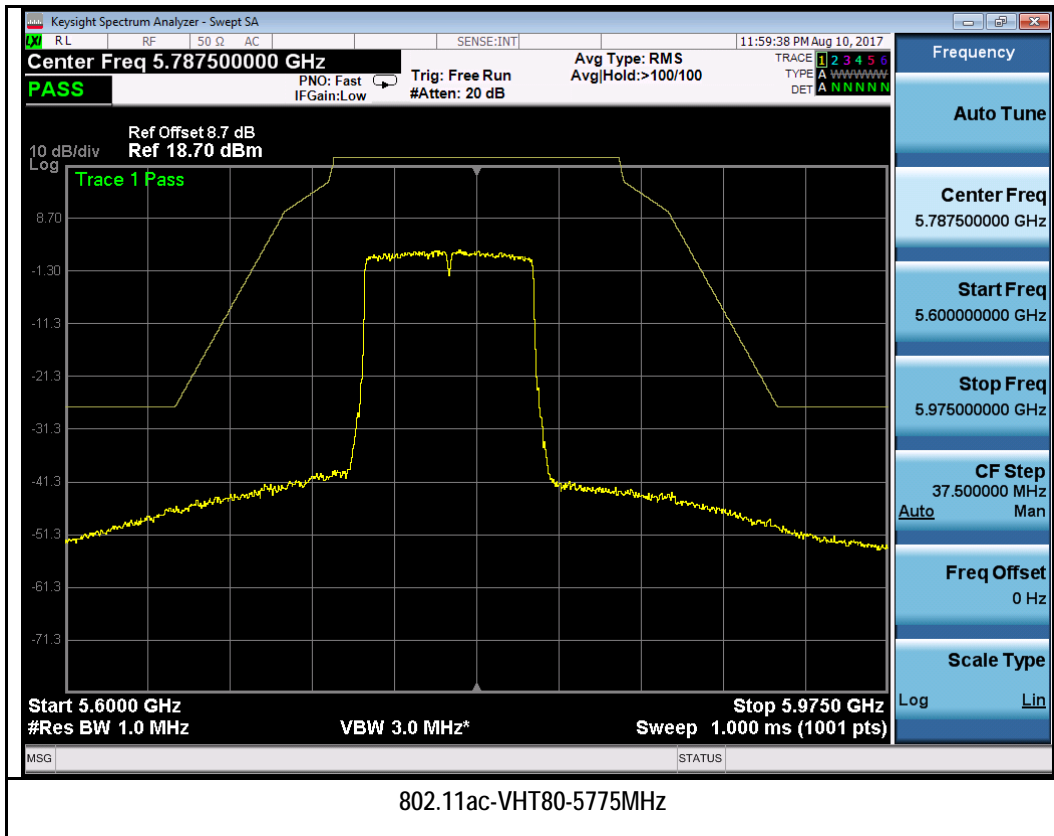




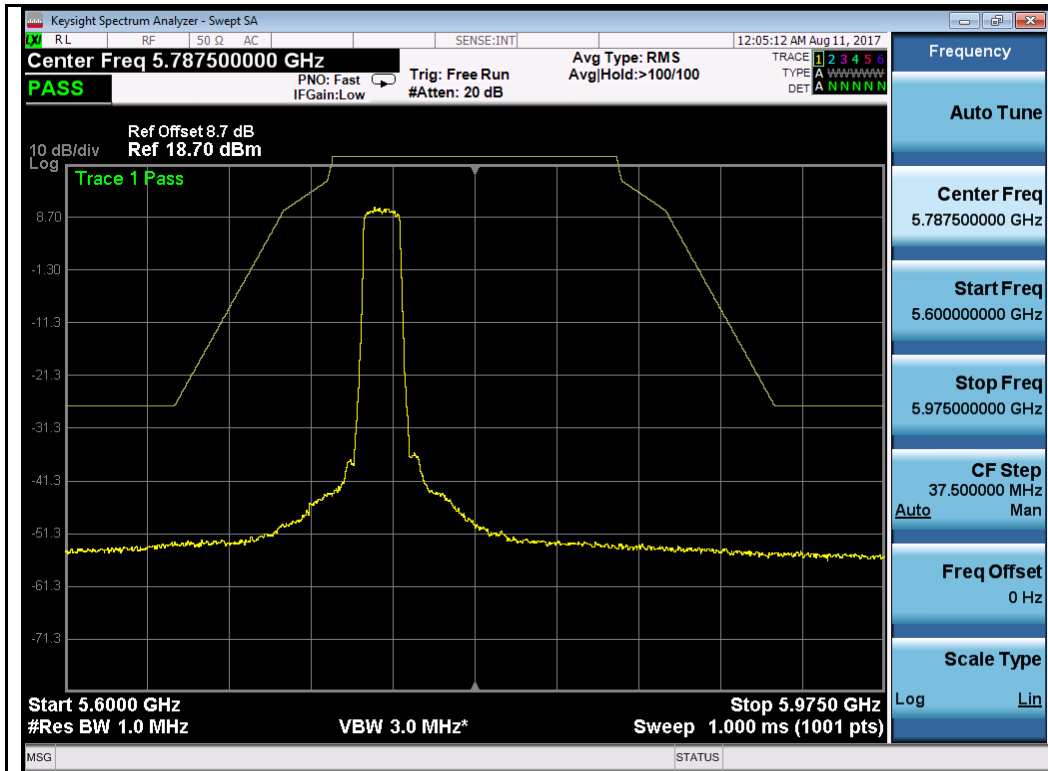
802.11n-HT40-5755MHz



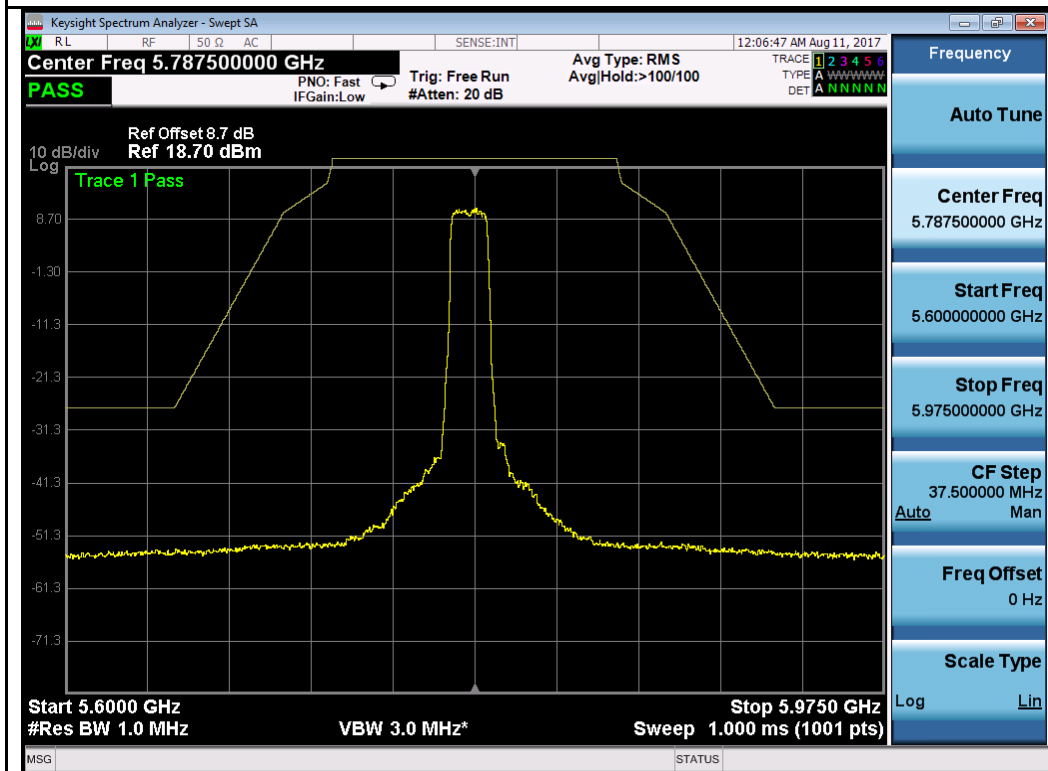
802.11n-HT40-5795MHz



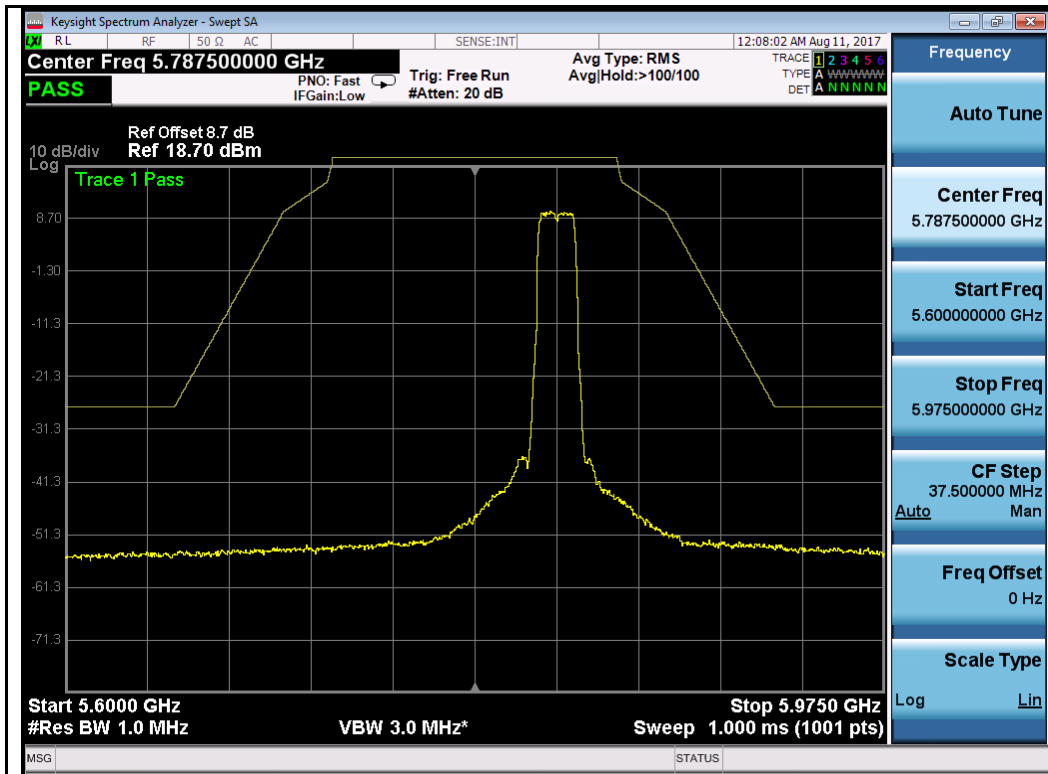
Chain 1:



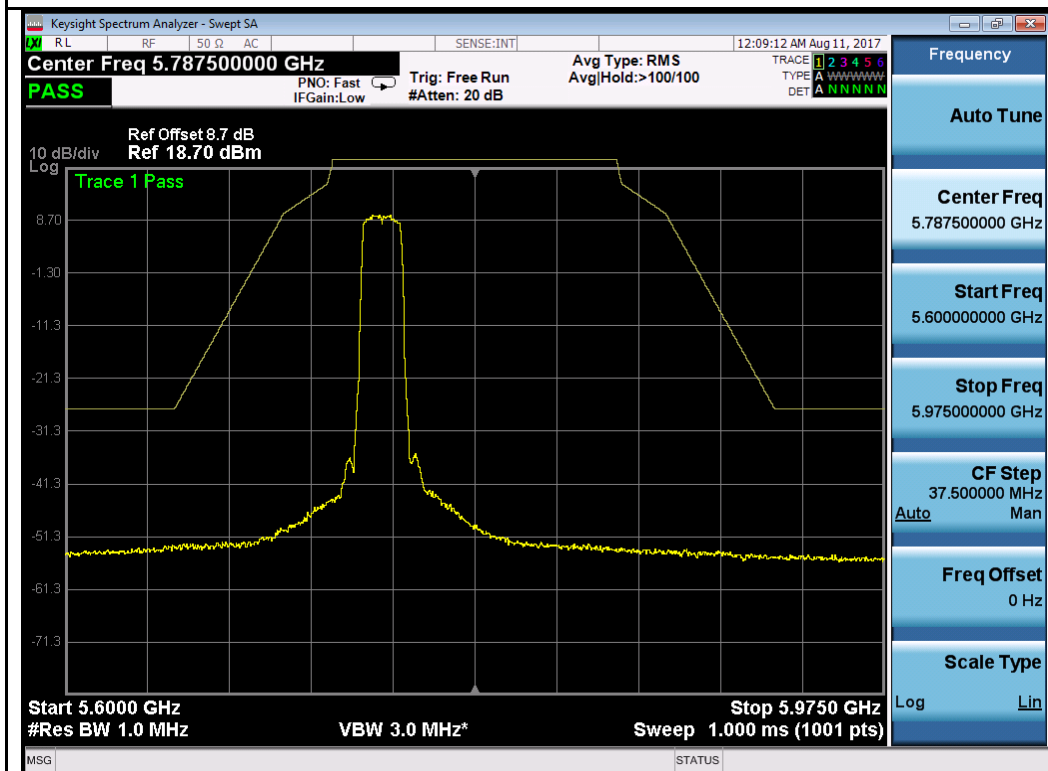
802.11a-5745MHz



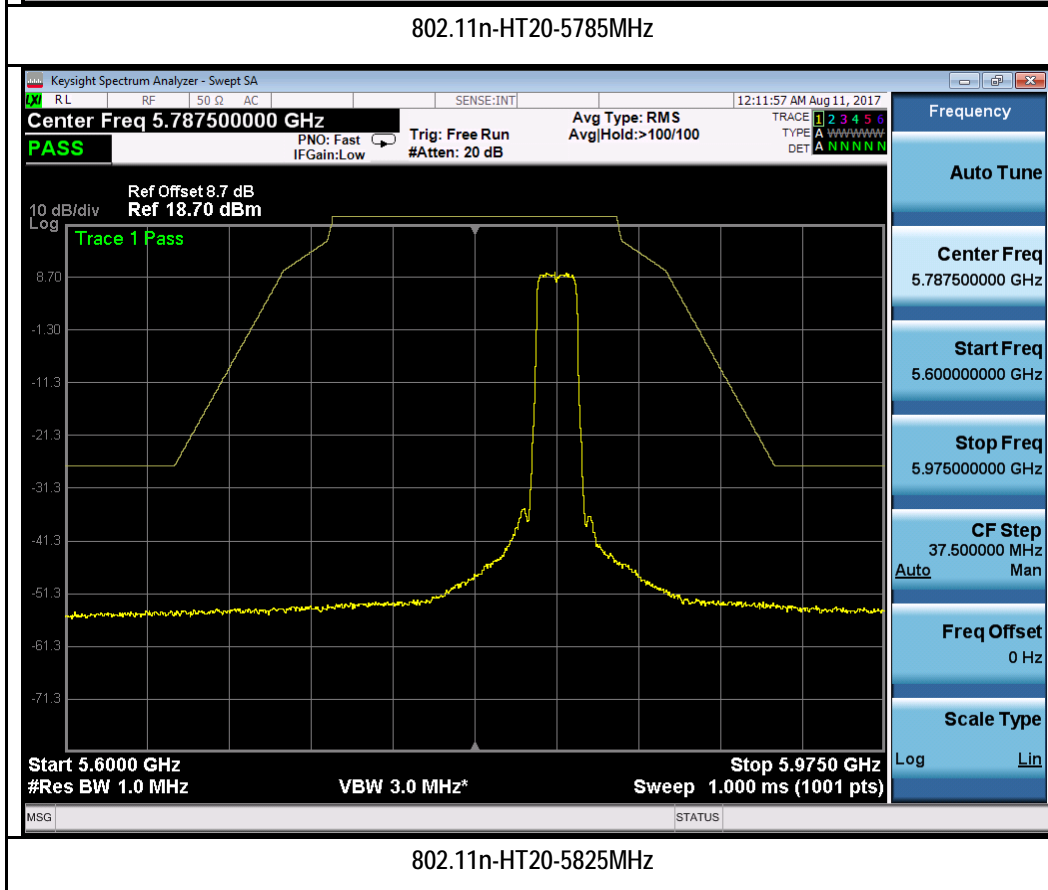
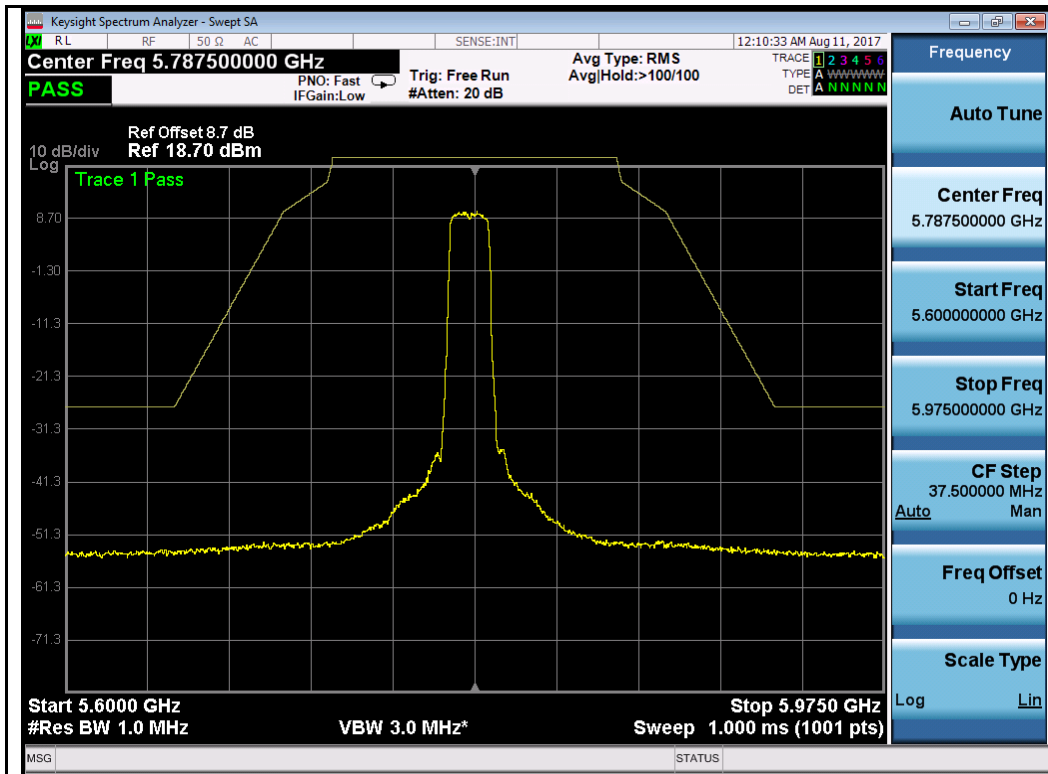
802.11a-5785MHz

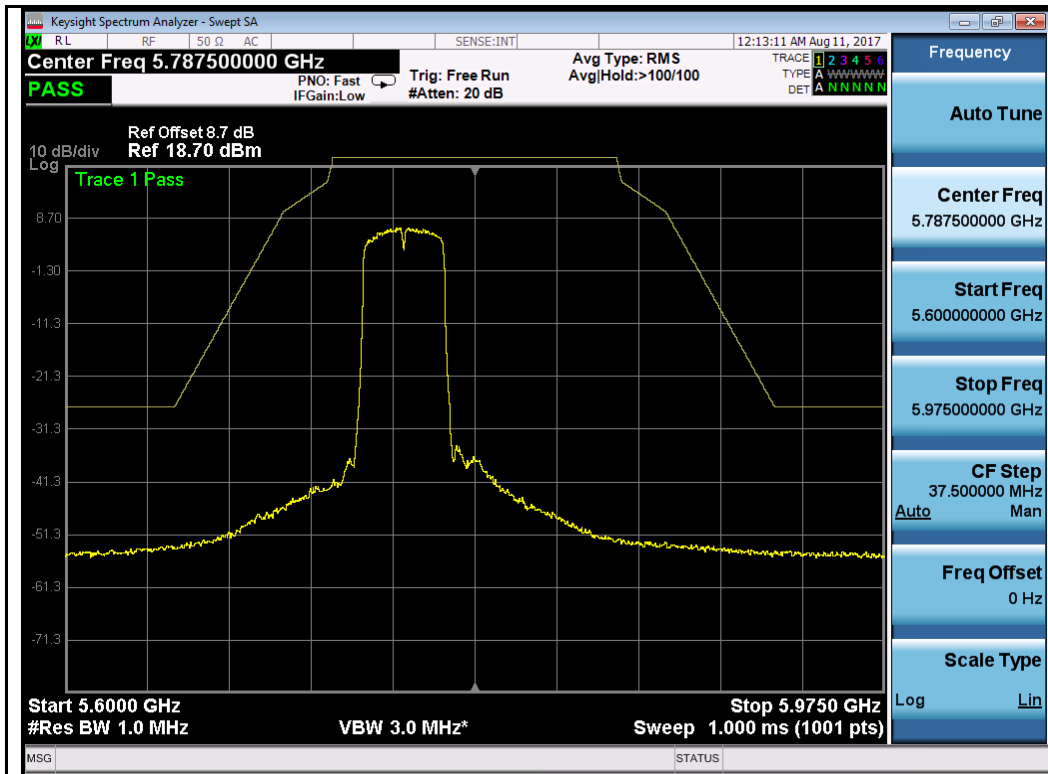


802.11a-5825MHz

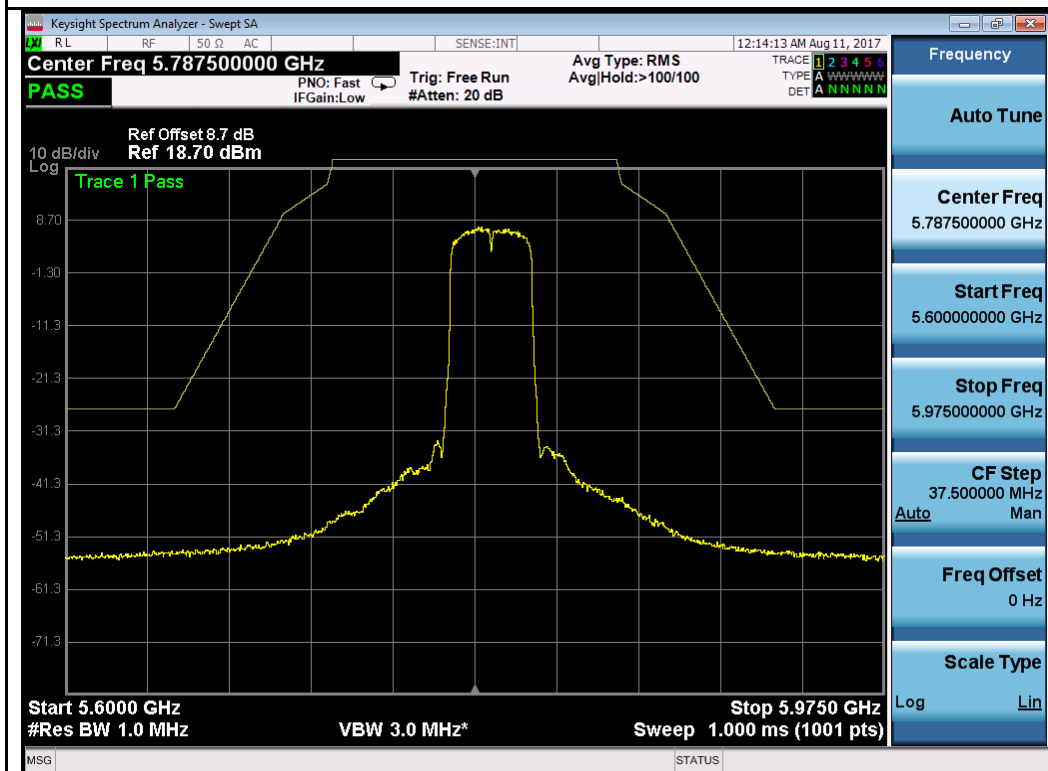


802.11n-HT20-5745MHz

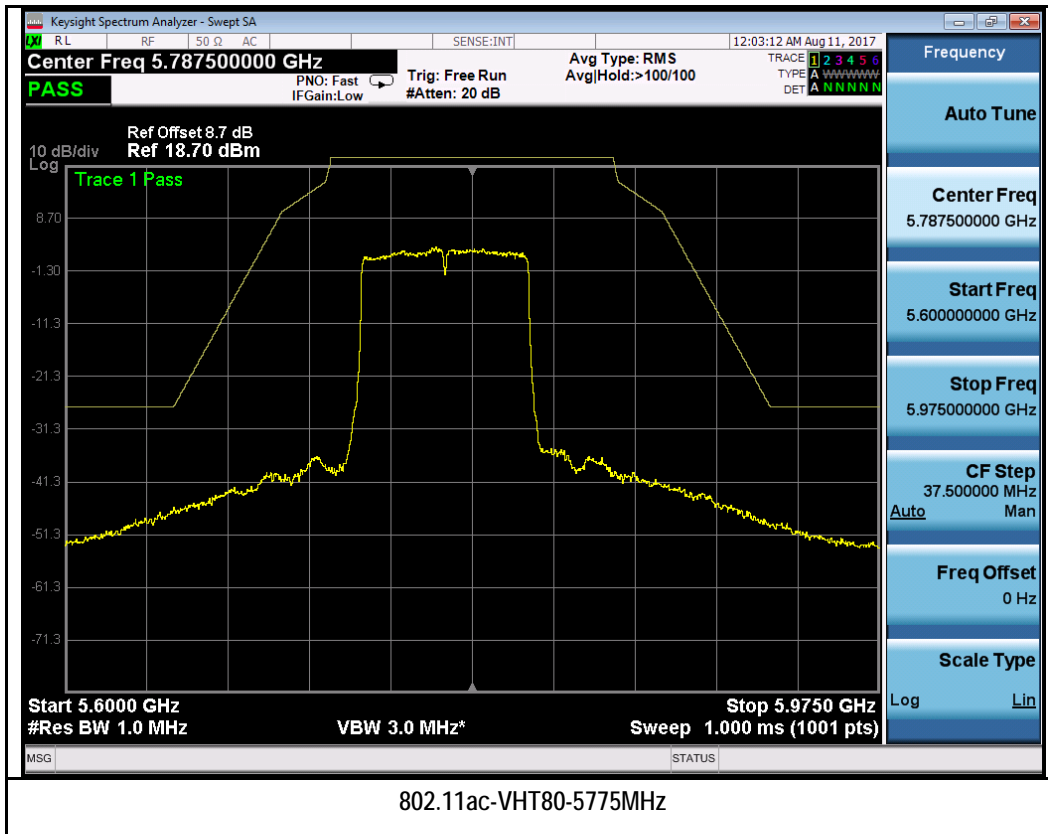




802.11n-HT40-5755MHz

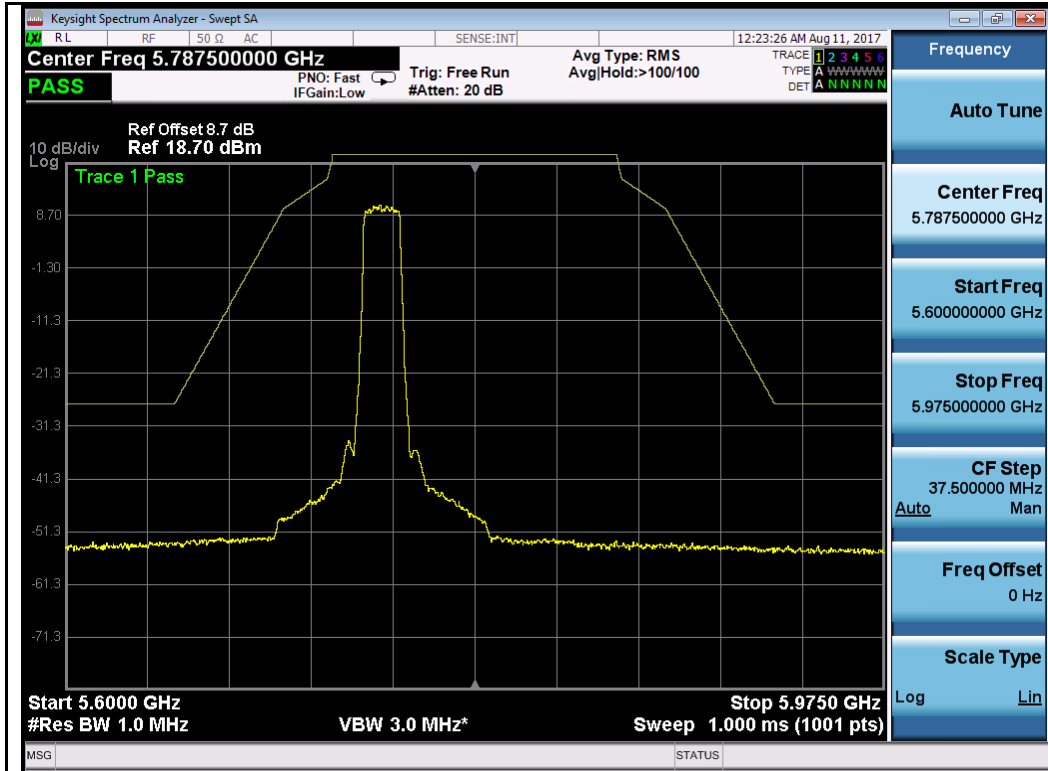


802.11n-HT40-5795MHz

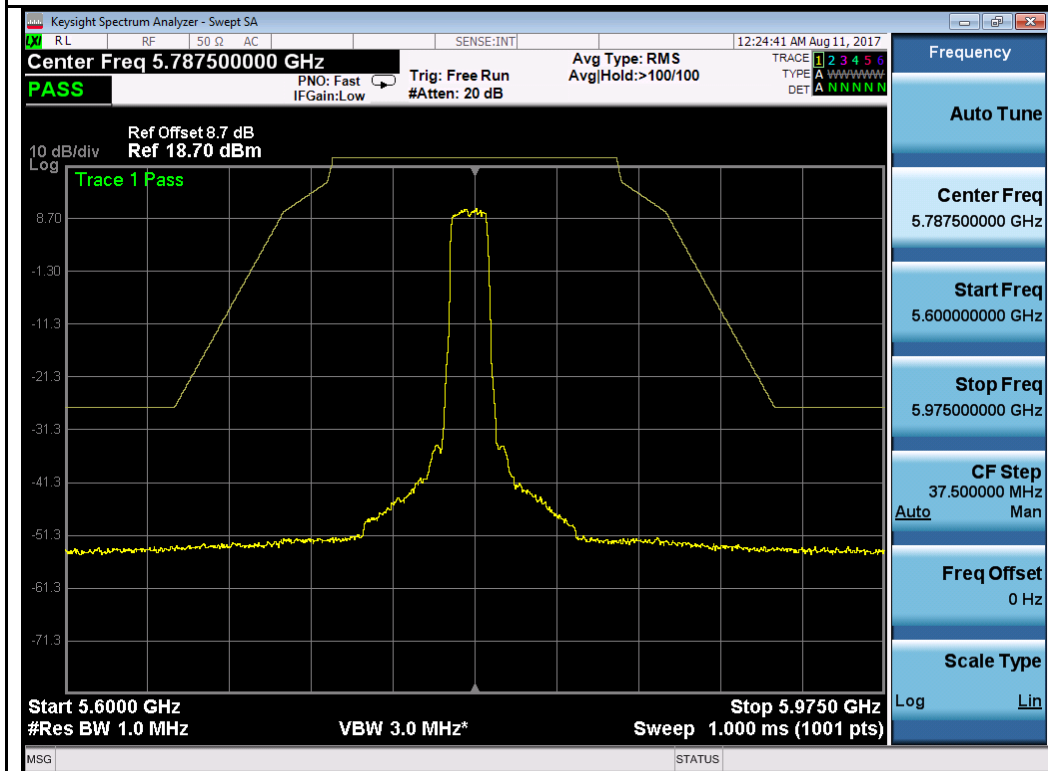




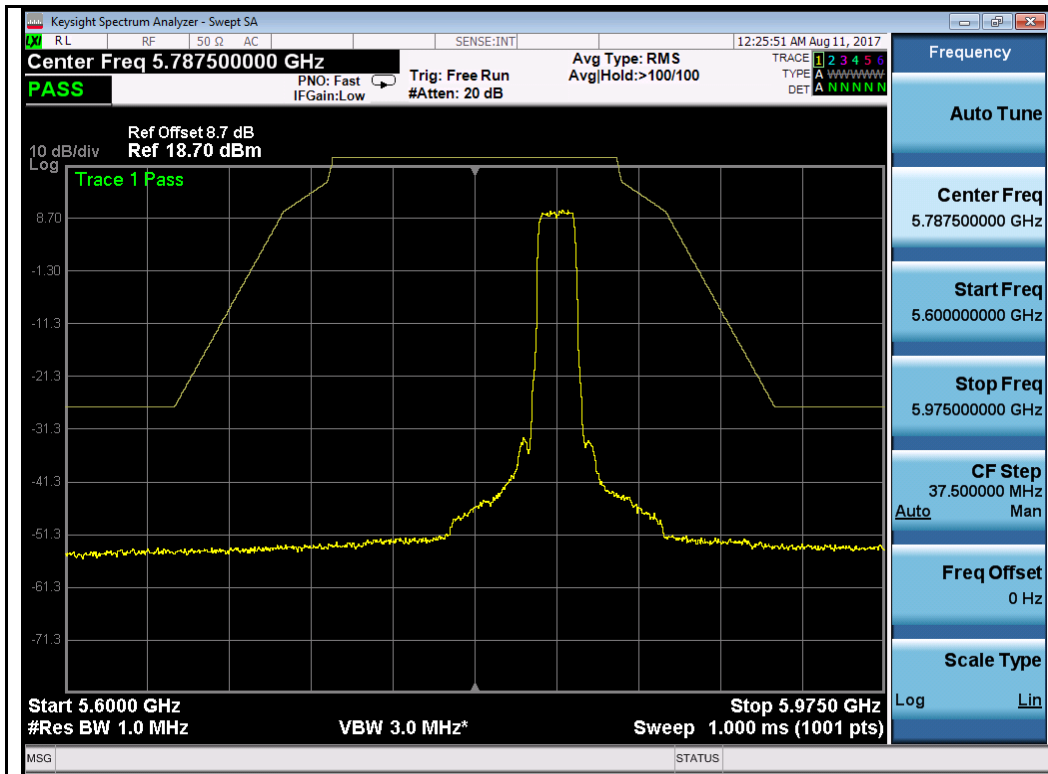
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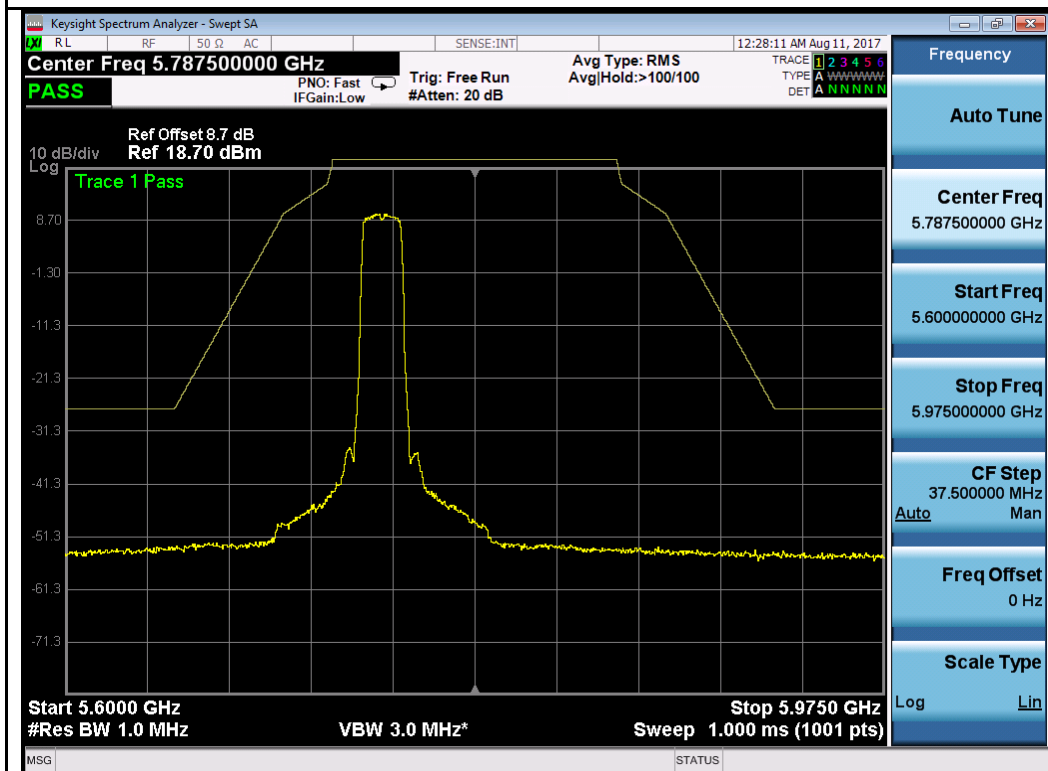
802.11a-5745MHz



802.11a-5785MHz

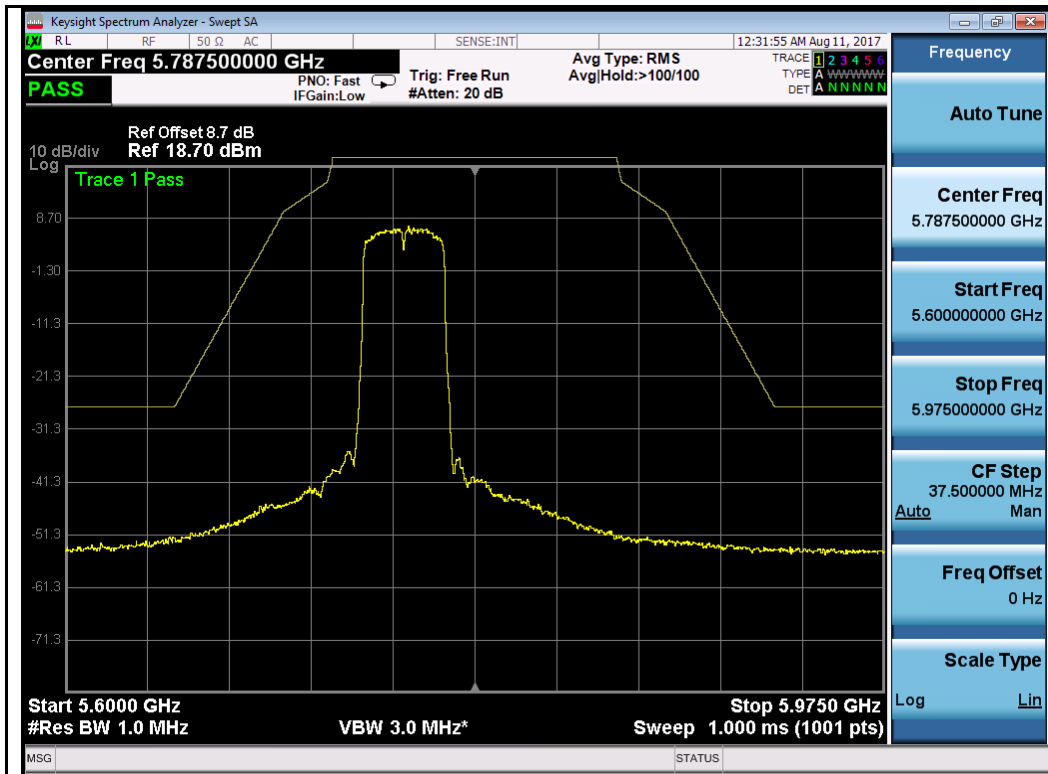


802.11a-5825MHz

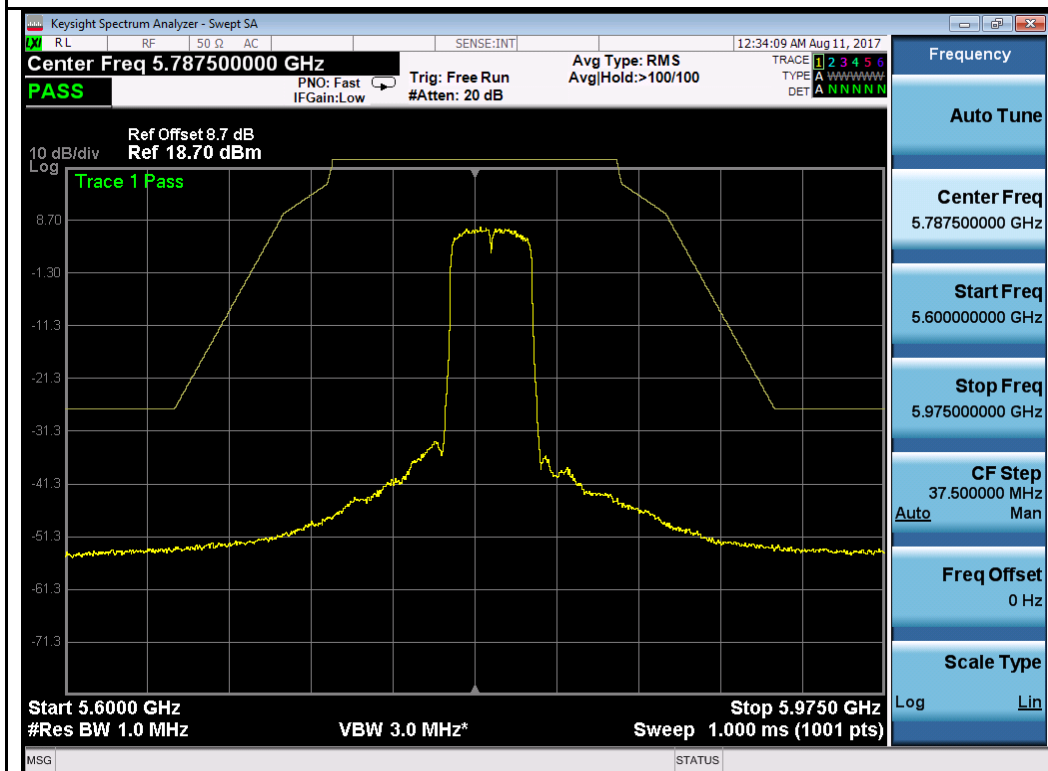


802.11n-HT20-5745MHz

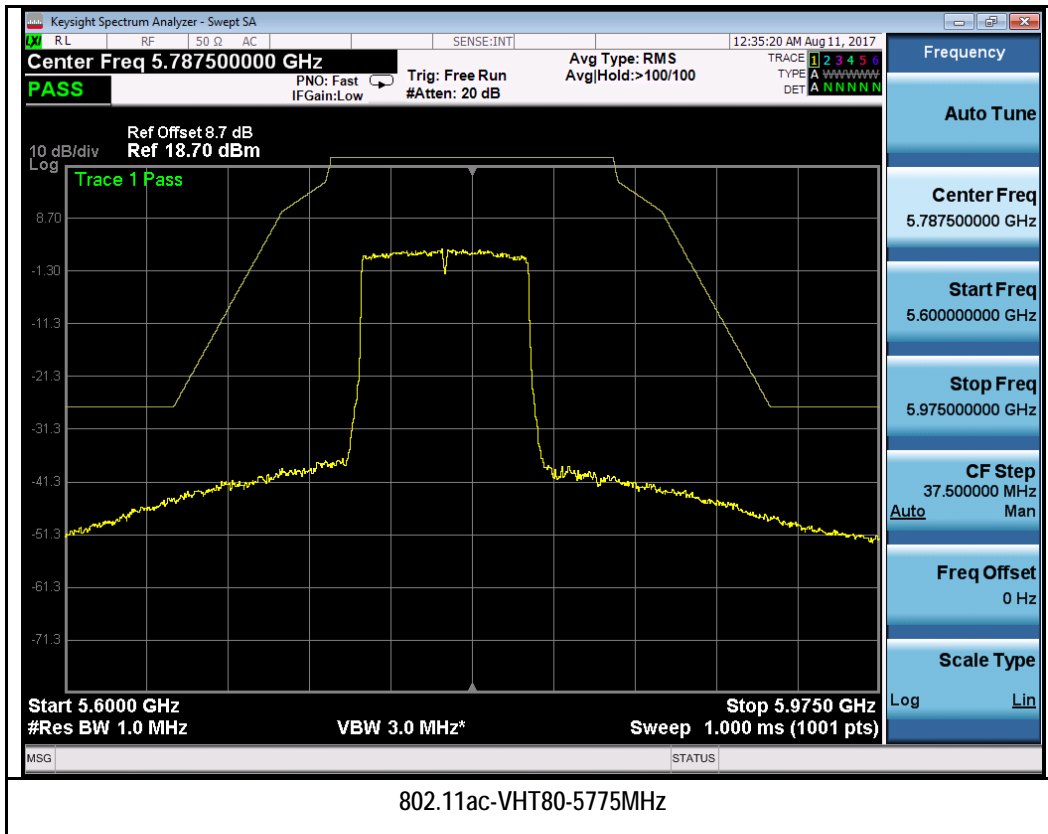




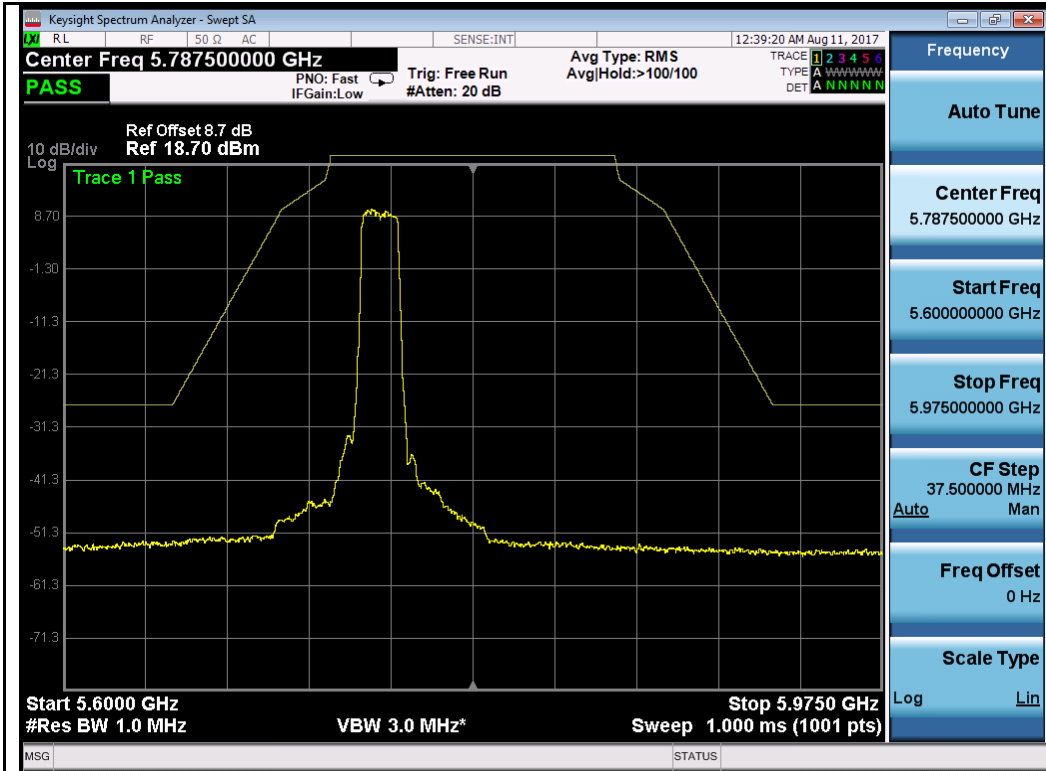
802.11n-HT40-5755MHz



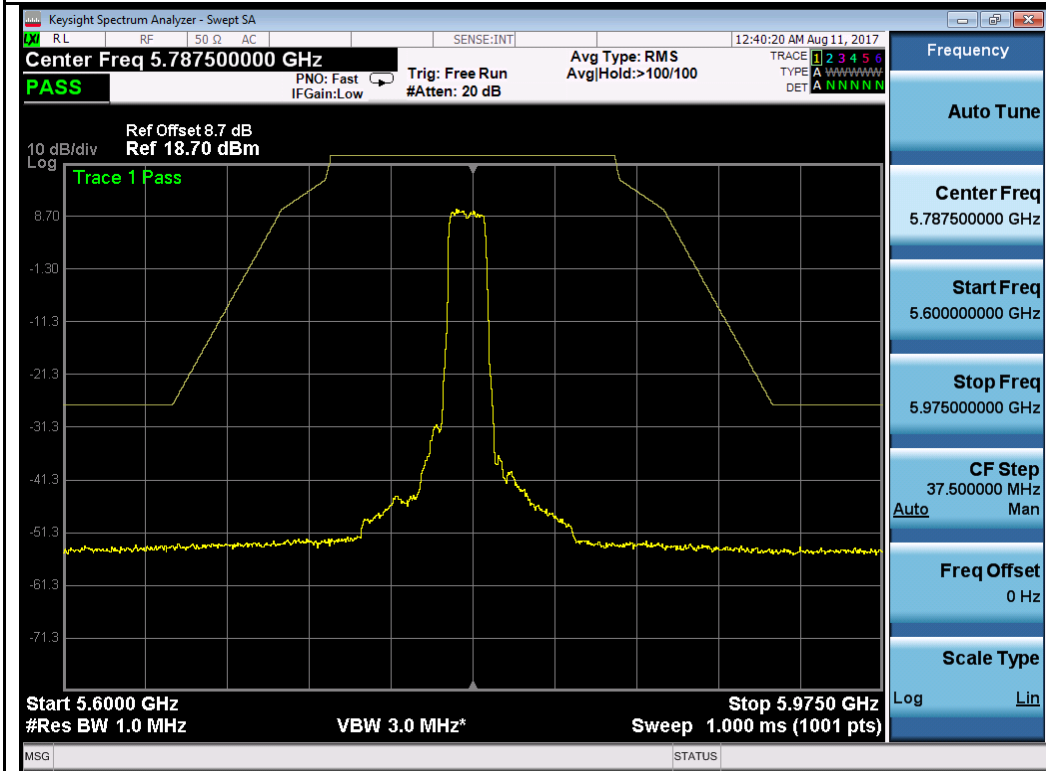
802.11n-HT40-5795MHz



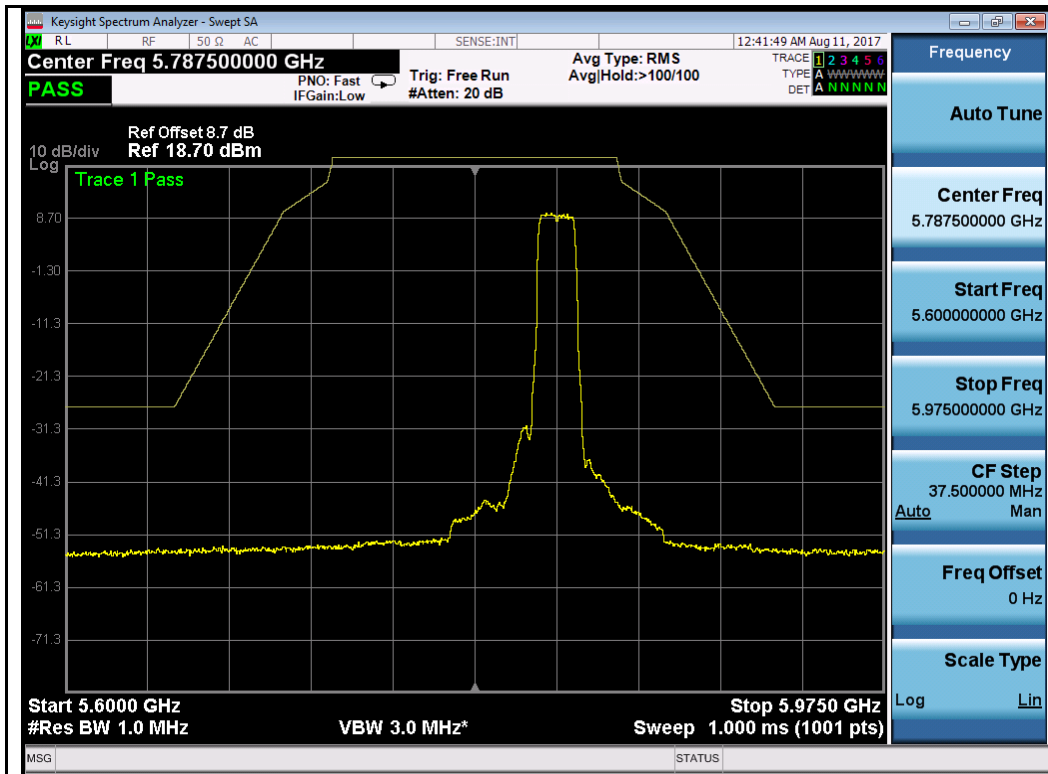
Chain 3:



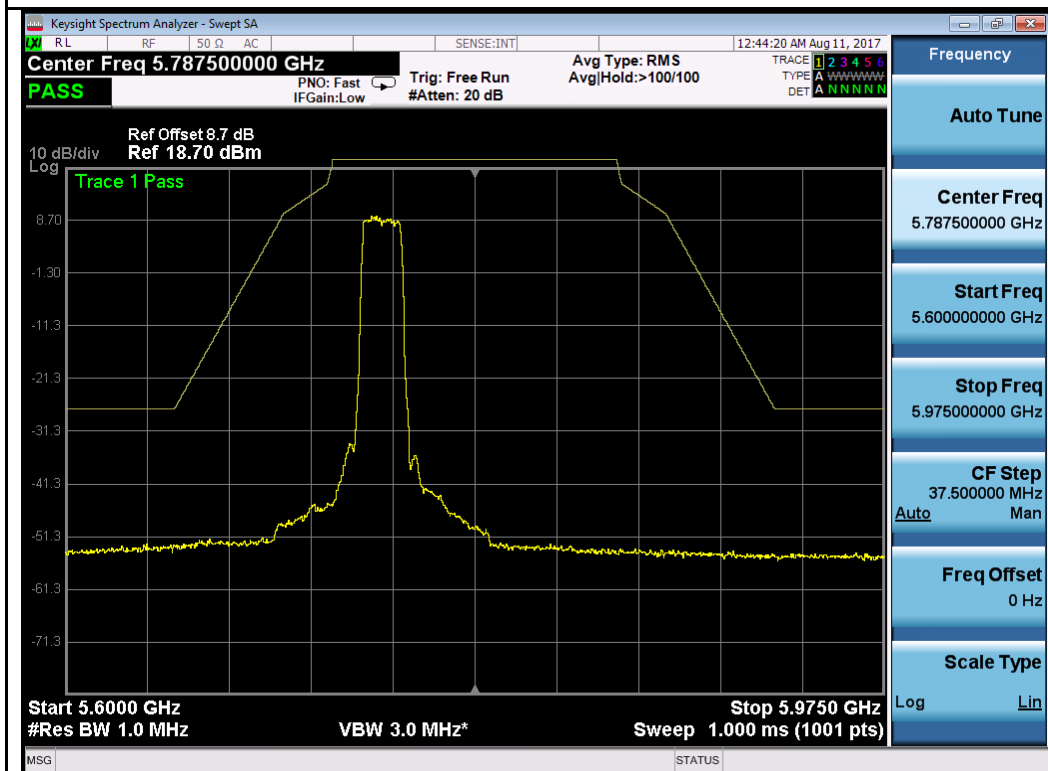
802.11a-5745MHz



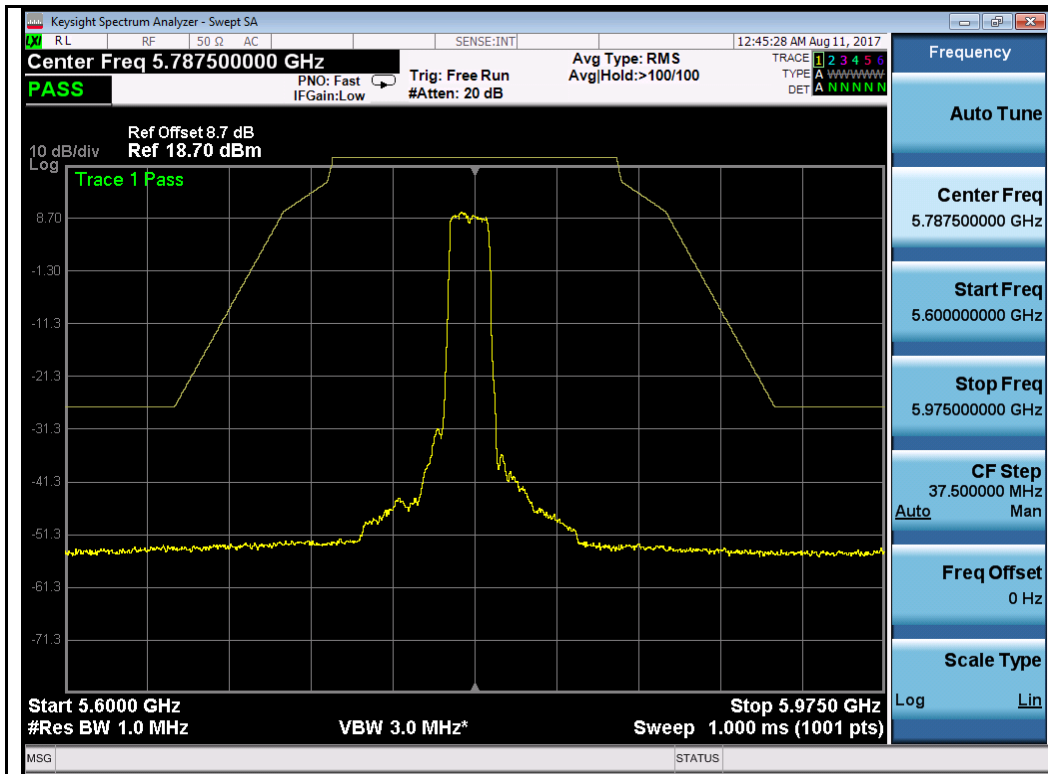
802.11a-5785MHz



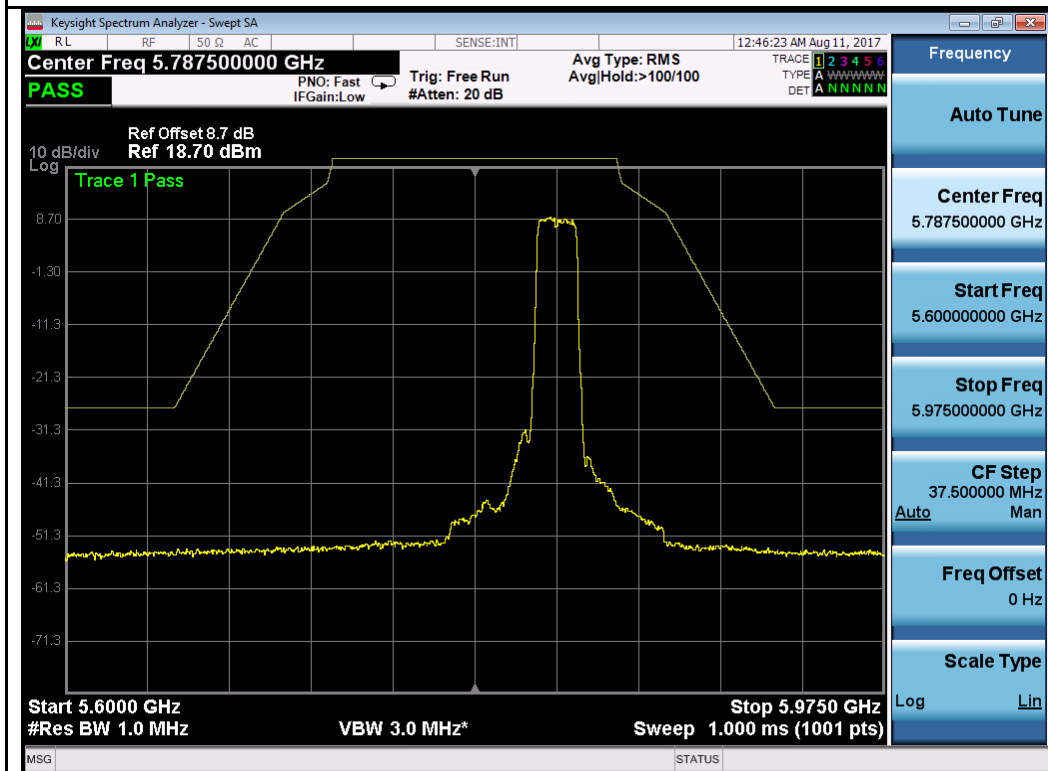
802.11a-5825MHz



802.11n-HT20-5745MHz

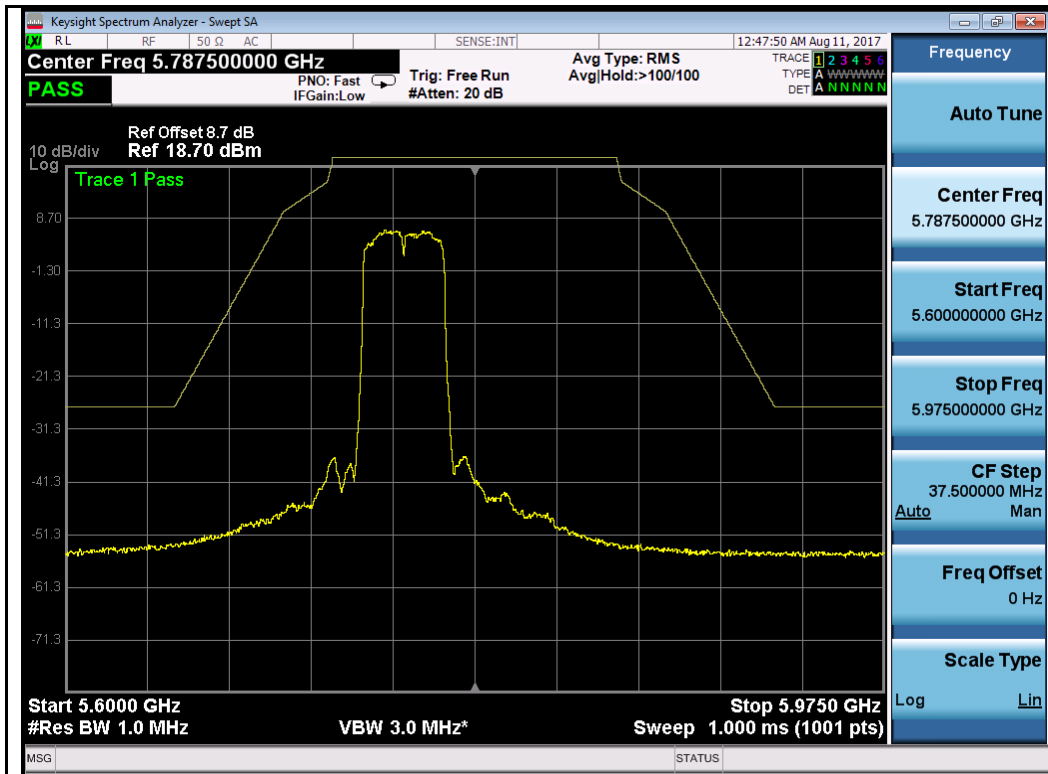


802.11n-HT20-5785MHz

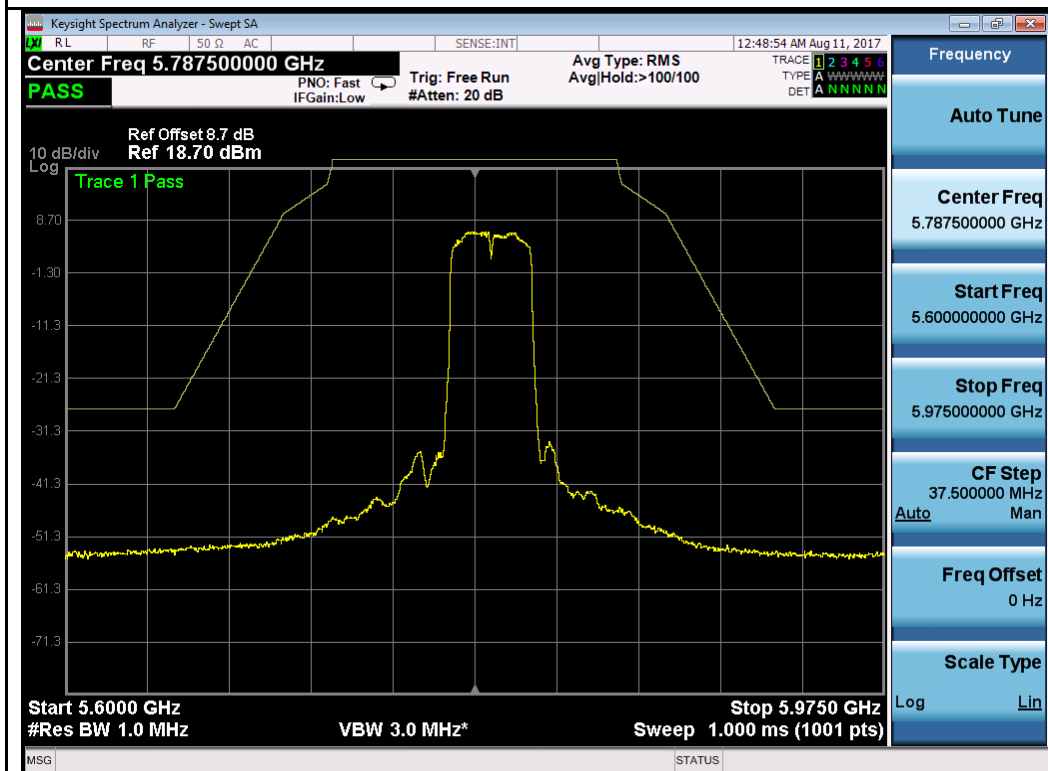


802.11n-HT20-5825MHz

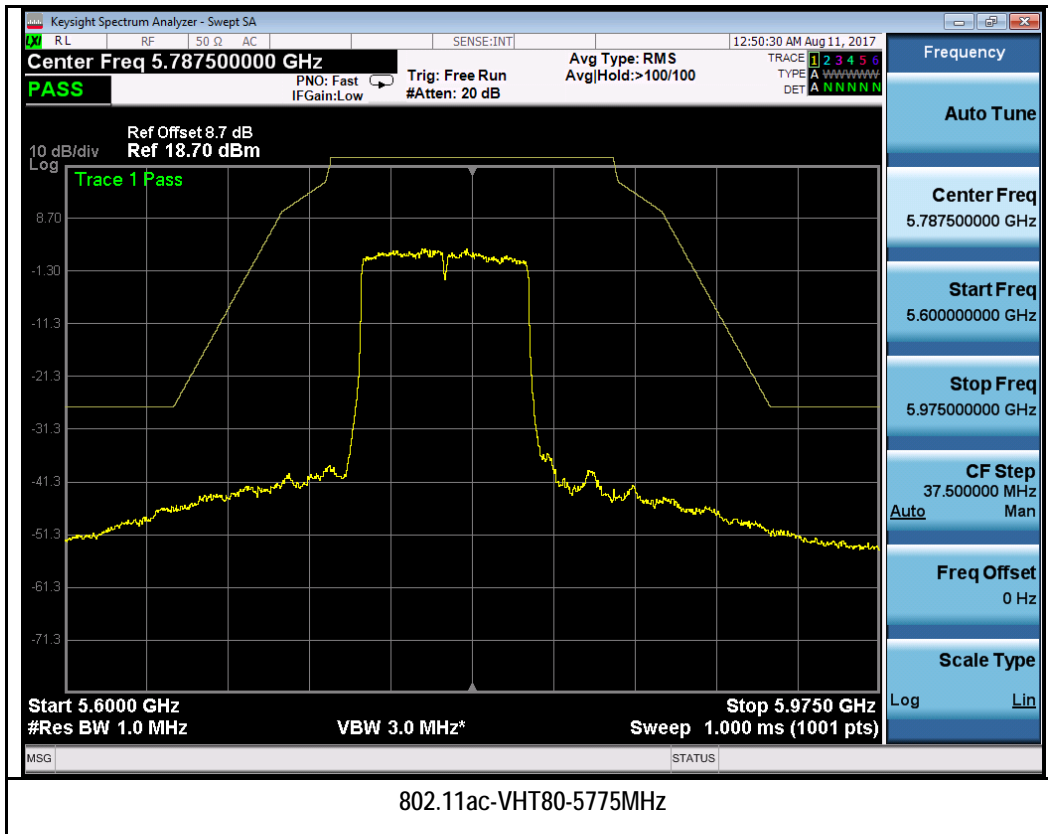




802.11n-HT40-5755MHz

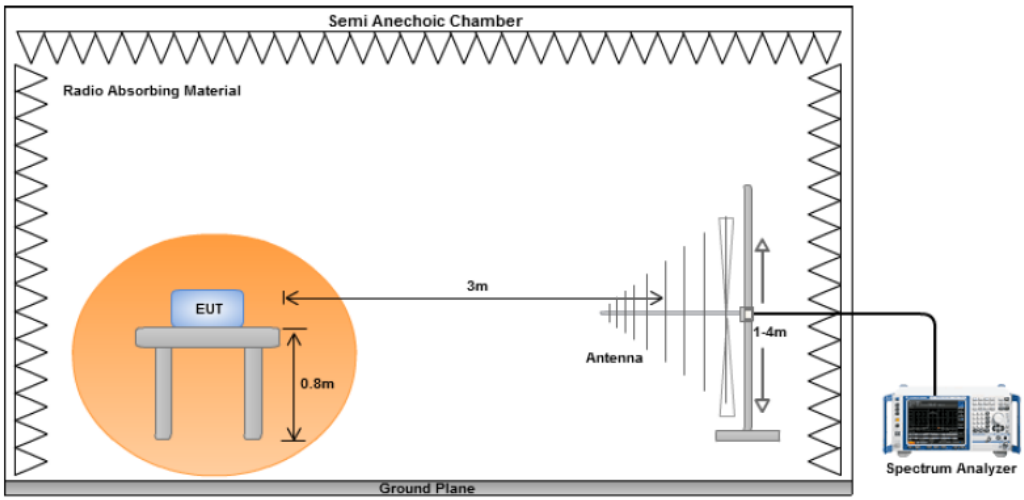


802.11n-HT40-5795MHz



## 10.6 Radiated Emissions below 1GHz

Requirement(s):

Spec	Requirement	Applicable										
47CFRS 15.407(b) 15.209 (a)	<p>Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges</p> <table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (uV/m)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>	Frequency range (MHz)	Field Strength (uV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	☒
Frequency range (MHz)	Field Strength (uV/m)											
30 – 88	100											
88 – 216	150											
216 960	200											
Above 960	500											
Test Setup												
Procedure	<ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> <li>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>A Quasi-peak measurement was then made for that frequency point.</li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>											
Remark	The EUT was scanned up to 1GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.											
Result	☒ Pass      ☐ Fail											

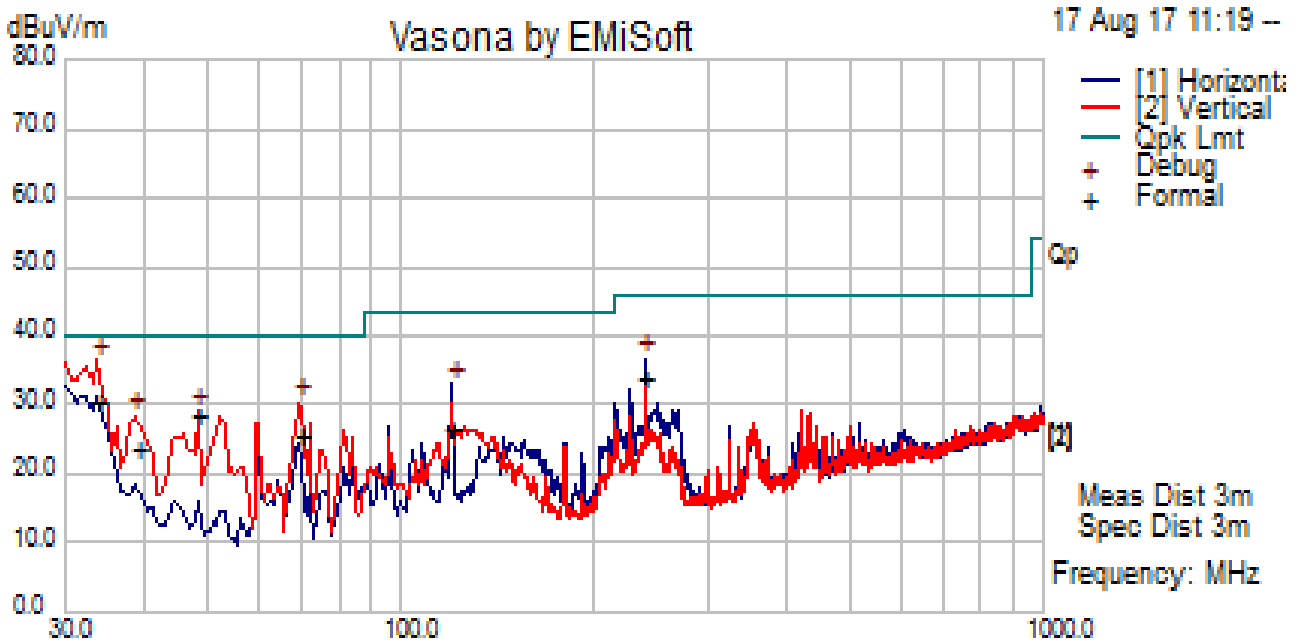
Test Data    ☒ Yes (See below)      ☐ N/A

Test Plot    ☒ Yes (See below)      ☐ N/A

Test was done by Rachana Khanduri at 10m chamber.

### Radiated Emission Test Results (Below 1GHz)

Test specification	Below 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	23			
	Humidity (%)	46			
	Atmospheric (mbar):	1017			
Mains Power:	120VAC, 60Hz				
Tested by:	Rachana Khanduri				
Test Date:	08/17/2017				
Remarks:	802.11ac - VHT80, 5210MHz				



Quasi Max Measurement

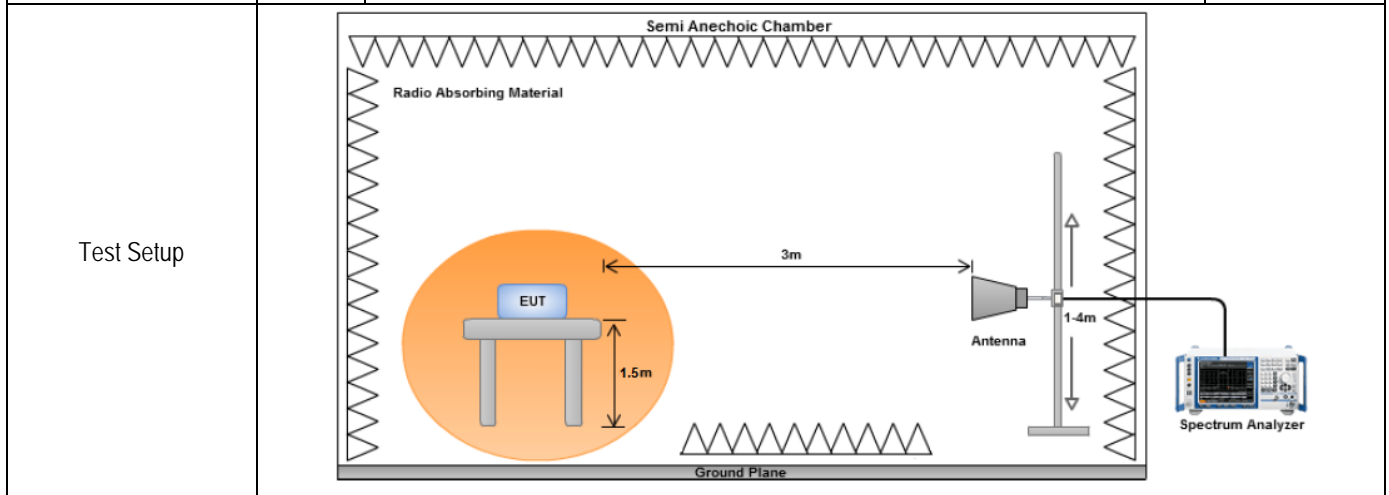
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
33.74	36.05	11.35	-17.16	30.24	Quasi Max	V	117	153	40.00	-9.76	Pass
240.00	45.46	13.08	-24.87	33.67	Quasi Max	H	134	347	46.00	-12.33	Pass
69.21	41.87	11.70	-28.05	25.52	Quasi Max	V	122	38	40.00	-14.48	Pass
120.08	37.12	12.25	-22.85	26.52	Quasi Max	H	252	235	43.50	-16.98	Pass
48.00	43.71	11.56	-26.66	28.60	Quasi Max	V	100	90	40.00	-11.40	Pass
38.59	32.93	11.43	-20.78	23.58	Quasi Max	V	136	73	40.00	-16.42	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

### 10.7 Radiated Spurious Emissions above 1GHz

Requirement(s):

Spec	Item	Requirement	Applicable
47CFR§ 15.407(b)(2), 15.407(b)(6)	(1)	For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.	<input checked="" type="checkbox"/>
	(2)	For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.	<input type="checkbox"/>
	(3)	For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.	<input type="checkbox"/>
	(4)	For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.	<input checked="" type="checkbox"/>
	(5)	Restricted band, emission must also comply with the radiated emission limits specified in 15.209	<input checked="" type="checkbox"/>



Procedure	<ol style="list-style-type: none"> <li>1. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>2. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:             <ol style="list-style-type: none"> <li>a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>b. The EUT was then rotated to the direction that gave the maximum emission.</li> <li>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>3. An average measurement was then made for that frequency point.</li> <li>4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>
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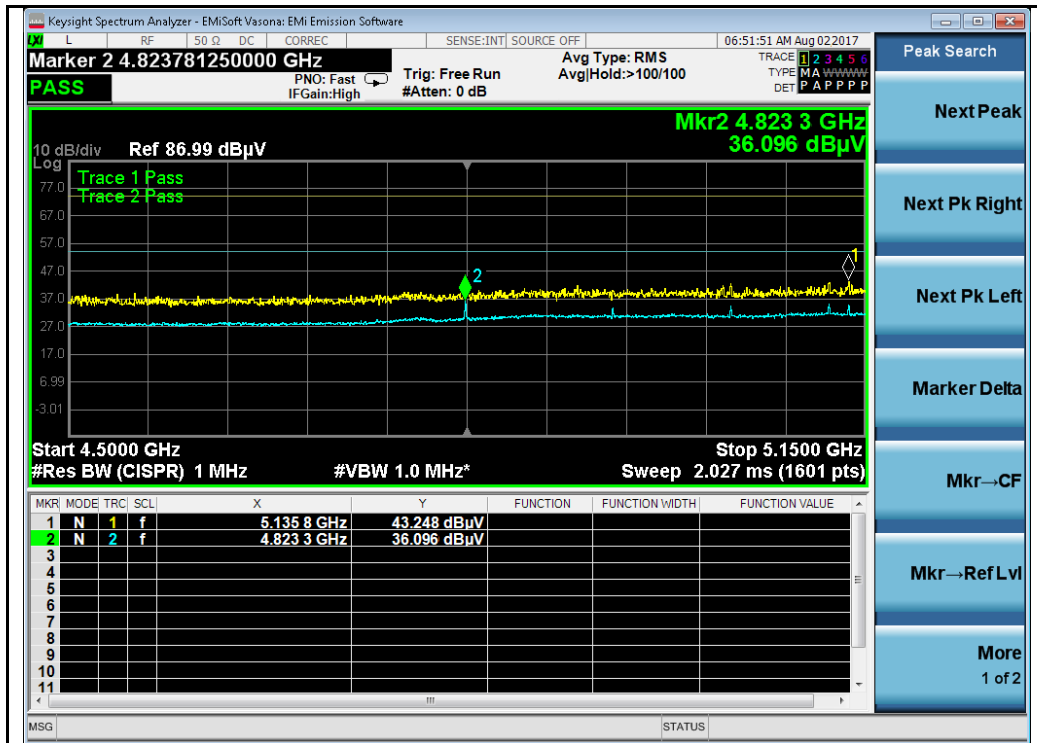
Remark	The EUT was scanned up to 40GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data     Yes (See below)       N/A

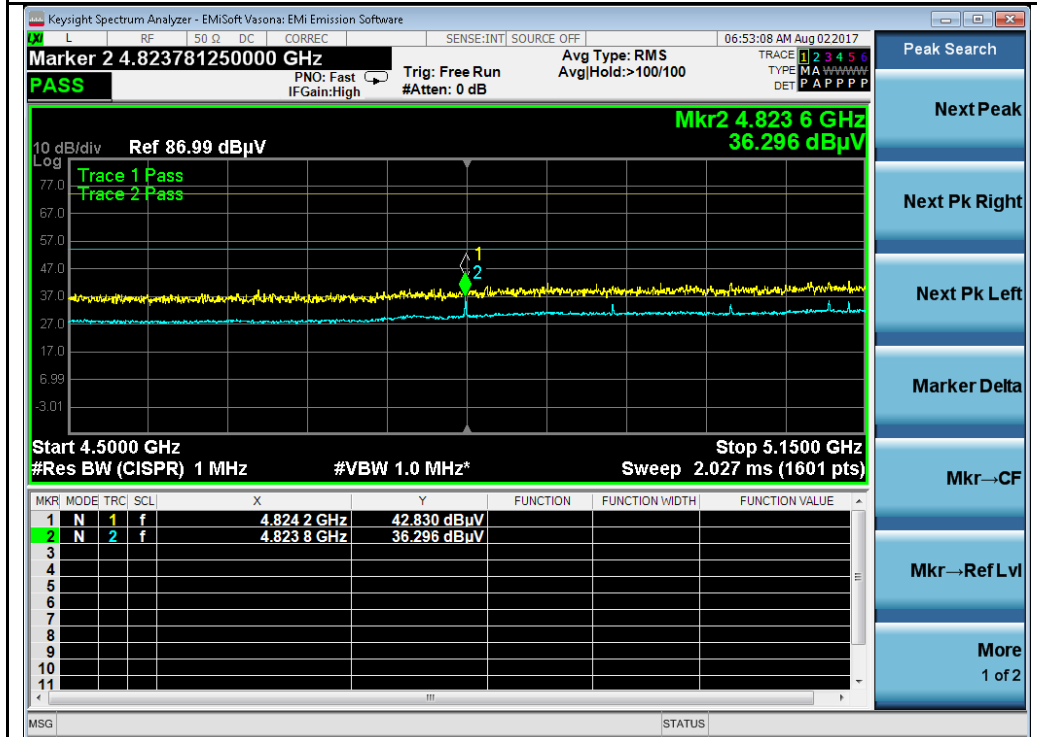
Test Plot     Yes (See below)       N/A

Test was done by Rachana Khanduri at 10m chamber.

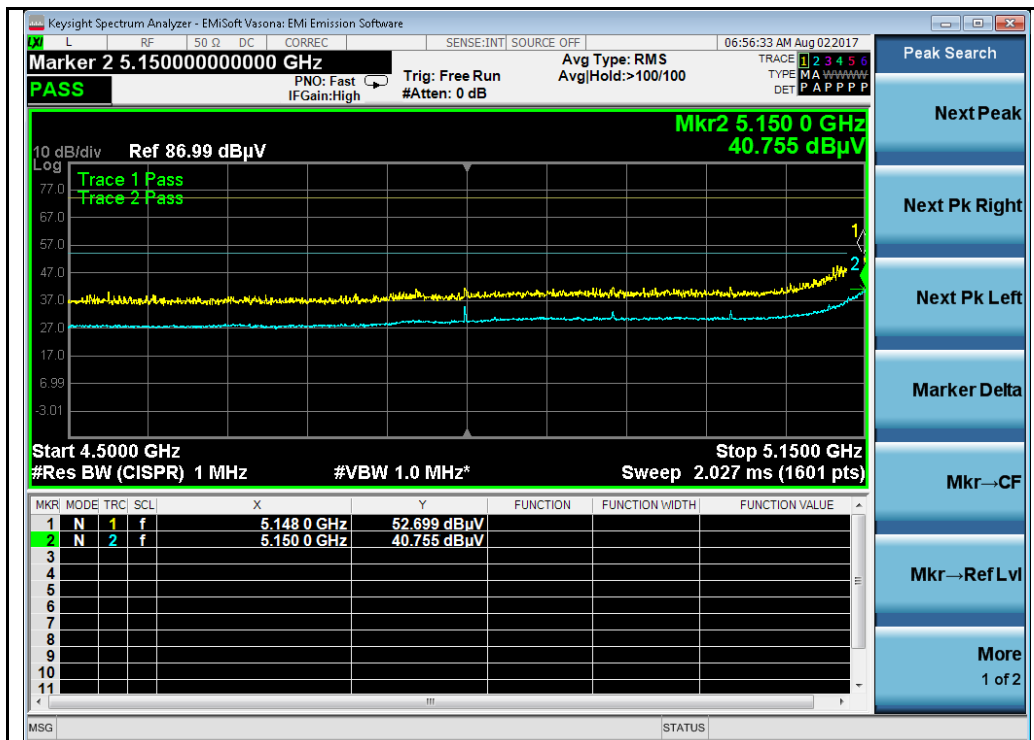
Restricted Band Measurement Plots:



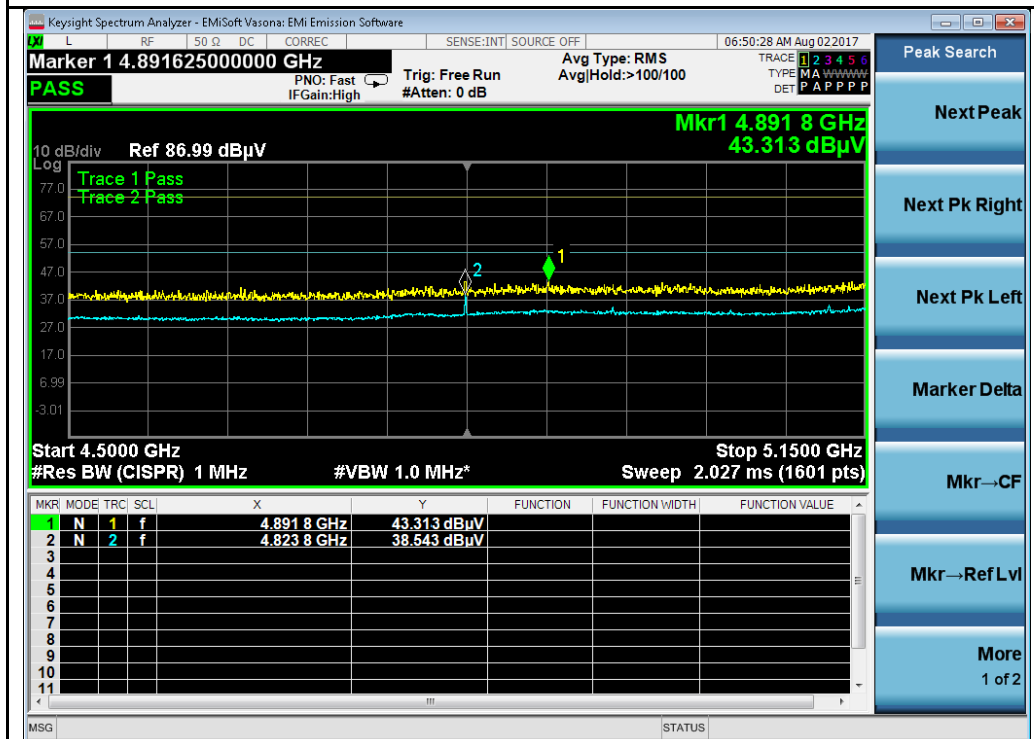
802.11a-5180MHz



802.11n-HT20 5180MHz



802.11n-HT40 5190MHz



802.11ac-VHT80 5210MHz

## Radiated Emission Test Results (Above 1GHz)

### 1GHz-40GHz – 802.11a – 5180MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17629.01	38.54	8.04	11.72	58.30	Peak Max	V	338	112	74	-15.7	Pass
10351.20	41.50	6.68	2.15	50.33	Peak Max	H	128	25	74	-23.67	Pass
13580.20	37.63	8.78	6.37	52.78	Peak Max	V	128	123	74	-21.22	Pass
17629.01	26.42	8.04	11.72	46.19	Average Max	V	338	112	54	-7.81	Pass
10351.20	28.37	6.68	2.15	37.20	Average Max	H	128	25	54	-16.80	Pass
13580.20	25.37	8.78	6.37	40.52	Average Max	V	128	123	54	-13.48	Pass

### 1GHz-40GHz – 802.11a – 5200MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
10402.27	45.00	6.71	2.06	53.76	Peak Max	H	167	90	74	-20.24	Pass
15398.45	38.66	8.21	6.91	53.78	Peak Max	V	336	252	74	-20.22	Pass
6984.92	38.21	5.23	0.85	44.28	Peak Max	V	227	336	74	-29.72	Pass
10402.27	31.90	6.71	2.06	40.67	Average Max	H	167	90	54	-13.34	Pass
15398.45	26.67	8.21	6.91	41.79	Average Max	V	336	252	54	-12.21	Pass
6984.92	26.16	5.23	0.85	32.23	Average Max	V	227	336	54	-21.77	Pass

### 1GHz-40GHz – 802.11a – 5240MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17945.72	38.83	8.17	11.99	58.99	Peak Max	V	400	3	74	-15.01	Pass
10489.73	47.89	6.75	2.18	56.82	Peak Max	V	223	256	74	-17.18	Pass
7005.76	37.91	5.23	0.84	43.99	Peak Max	V	295	350	74	-30.01	Pass
17945.72	26.99	8.17	11.99	47.15	Average Max	V	400	3	54	-6.85	Pass
10489.73	35.07	6.75	2.18	44.00	Average Max	V	223	256	54	-10.00	Pass
7005.76	26.07	5.23	0.84	32.15	Average Max	V	295	350	54	-21.85	Pass



1GHz-40GHz – 802.11n-20M – 5180MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17852.75	38.81	8.13	11.72	58.66	Peak Max	H	172	50	74	-15.35	Pass
10362.53	44.41	6.69	2.12	53.22	Peak Max	V	210	19	74	-20.78	Pass
6963.88	38.37	5.22	0.80	44.39	Peak Max	V	134	244	74	-29.61	Pass
17852.75	26.54	8.13	11.72	46.39	Average Max	H	172	50	54	-7.62	Pass
10362.53	31.08	6.69	2.12	39.90	Average Max	V	210	19	54	-14.10	Pass
6963.88	26.15	5.22	0.80	32.17	Average Max	V	134	244	54	-21.83	Pass

1GHz-40GHz – 802.11n-20M – 5200MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17477.76	39.25	8.00	10.71	57.95	Peak Max	H	394	189	74	-16.05	Pass
10404.30	50.72	6.71	2.06	59.50	Peak Max	V	194	119	74	-14.50	Pass
6983.97	38.29	5.23	0.84	44.36	Peak Max	V	247	12	74	-29.64	Pass
17477.76	26.78	8.00	10.71	45.48	Average Max	H	394	189	54	-8.52	Pass
10404.30	37.52	6.71	2.06	46.29	Average Max	V	194	119	54	-7.71	Pass
6983.97	26.12	5.23	0.84	32.19	Average Max	V	247	12	54	-21.81	Pass

1GHz-40GHz – 802.11n-20M – 5240MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17958.08	39.14	8.17	11.93	59.25	Peak Max	V	230	212	74	-14.76	Pass
10477.78	42.55	6.75	2.16	51.46	Peak Max	V	369	298	74	-22.54	Pass
7075.93	38.38	5.26	0.42	44.06	Peak Max	V	362	244	74	-29.94	Pass
17958.08	26.90	8.17	11.93	47.00	Average Max	V	230	212	54	-7.00	Pass
10477.78	28.30	6.75	2.16	37.21	Average Max	V	369	298	54	-16.80	Pass
7075.93	26.09	5.26	0.42	31.77	Average Max	V	362	244	54	-22.23	Pass

1GHz-40GHz – 802.11n-40M – 5190MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17586.85	38.66	8.03	11.47	58.15	Peak Max	V	241	31	74	-15.85	Pass
10393.66	46.63	6.71	2.07	55.41	Peak Max	V	197	127	74	-18.60	Pass
6916.63	38.83	5.21	0.69	44.73	Peak Max	V	165	65	74	-29.27	Pass
17586.85	26.65	8.03	11.47	46.14	Average Max	V	241	31	54	-7.86	Pass
10393.66	34.24	6.71	2.07	43.01	Average Max	V	197	127	54	-10.99	Pass
6916.63	26.31	5.21	0.69	32.21	Average Max	V	165	65	54	-21.80	Pass

1GHz-40GHz – 802.11n-40M – 5230MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17990.91	39.83	8.19	11.77	59.78	Peak Max	V	379	50	74	-14.22	Pass
10456.74	48.85	6.74	2.13	57.72	Peak Max	V	199	133	74	-16.28	Pass
6966.73	38.28	5.22	0.80	44.30	Peak Max	V	375	229	74	-29.70	Pass
17990.91	27.00	8.19	11.77	46.96	Average Max	V	379	50	54	-7.04	Pass
10456.74	36.05	6.74	2.13	44.92	Average Max	V	199	133	54	-9.08	Pass
6966.73	26.17	5.22	0.80	32.20	Average Max	V	375	229	54	-21.80	Pass

1GHz-40GHz – 802.11ac-80M – 5210MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17946.15	39.47	8.17	11.99	59.63	Peak Max	H	135	329	74	-14.37	Pass
6950.71	38.03	5.22	0.77	44.02	Peak Max	V	143	72	74	-29.98	Pass
10531.11	38.48	6.78	2.08	47.34	Peak Max	V	388	39	74	-26.66	Pass
17946.15	26.97	8.17	11.99	47.13	Average Max	H	135	329	54	-6.87	Pass
6950.71	26.14	5.22	0.77	32.13	Average Max	V	143	72	54	-21.87	Pass
10531.11	26.35	6.78	2.08	35.20	Average Max	V	388	39	54	-18.80	Pass

1GHz-40GHz – 802.11a – 5745MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17689.45	38.11	8.07	11.99	58.16	Peak Max	V	390	154	74	-15.84	Pass
11497.03	43.50	7.71	2.29	53.49	Peak Max	V	217	202	74	-20.51	Pass
7316.77	39.58	5.35	0.77	45.70	Peak Max	V	177	130	74	-28.30	Pass
17689.45	26.29	8.07	11.99	46.34	Average Max	V	390	154	54	-7.66	Pass
11497.03	30.41	7.71	2.29	40.40	Average Max	V	217	202	54	-13.60	Pass
7316.77	26.07	5.35	0.77	32.19	Average Max	V	177	130	54	-21.81	Pass

1GHz-40GHz - 802.11a– 5785MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17574.65	39.24	8.02	11.35	58.61	Peak Max	H	233	168	74	-15.39	Pass
11576.11	43.08	7.76	2.56	53.40	Peak Max	V	227	200	74	-20.60	Pass
7024.71	38.03	5.24	0.73	44.00	Peak Max	V	101	278	74	-30.00	Pass
17574.65	26.69	8.02	11.35	46.06	Average Max	H	233	168	54	-7.94	Pass
11576.11	30.37	7.76	2.56	40.69	Average Max	V	227	200	54	-13.31	Pass
7024.71	26.08	5.24	0.73	32.05	Average Max	V	101	278	54	-21.95	Pass

1GHz-40GHz - 802.11a - 5825MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17725.61	38.32	8.08	11.81	58.21	Peak Max	V	282	335	74	-15.79	Pass
11656.63	38.87	7.82	2.53	49.22	Peak Max	V	186	296	74	-24.78	Pass
6933.69	38.28	5.21	0.73	44.22	Peak Max	V	138	164	74	-29.78	Pass
17725.61	26.30	8.08	11.81	46.19	Average Max	V	282	335	54	-7.81	Pass
11656.63	26.63	7.82	2.53	36.97	Average Max	V	186	296	54	-17.03	Pass
6933.69	26.26	5.21	0.73	32.20	Average Max	V	138	164	54	-21.80	Pass

1GHz-40GHz – 802.11n-20M – 5745MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17903.50	38.99	8.15	12.20	59.35	Peak Max	V	216	128	74	-14.65	Pass
11489.24	43.99	7.70	2.34	54.03	Peak Max	V	200	169	74	-19.97	Pass
7337.04	38.15	5.36	0.66	44.17	Peak Max	V	394	272	74	-29.83	Pass
17903.50	26.78	8.15	12.20	47.14	Average Max	V	216	128	54	-6.87	Pass
11489.24	29.91	7.70	2.34	39.95	Average Max	V	200	169	54	-14.05	Pass
7337.04	26.04	5.36	0.66	32.06	Average Max	V	394	272	54	-21.94	Pass

1GHz-40GHz - 802.11n-20M– 5785MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17891.93	38.83	8.15	12.14	59.11	Peak Max	H	392	148	74	-14.89	Pass
11562.15	44.46	7.75	2.50	54.72	Peak Max	H	152	345	74	-19.29	Pass
7639.73	38.95	5.58	0.61	45.15	Peak Max	V	285	24	74	-28.85	Pass
17891.93	26.70	8.15	12.14	46.98	Average Max	H	392	148	54	-7.02	Pass
11562.15	29.62	7.75	2.50	39.88	Average Max	H	152	345	54	-14.12	Pass
7639.73	26.59	5.58	0.61	32.78	Average Max	V	285	24	54	-21.22	Pass

1GHz-40GHz - 802.11n-20M - 5825MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17554.47	38.65	8.01	11.15	57.82	Peak Max	H	206	280	74	-16.18	Pass
11656.86	39.60	7.82	2.53	49.94	Peak Max	V	272	194	74	-24.06	Pass
7896.12	37.77	5.87	0.11	43.76	Peak Max	V	263	41	74	-30.24	Pass
17554.47	26.60	8.01	11.15	45.77	Average Max	H	206	280	54	-8.23	Pass
11656.86	26.62	7.82	2.53	36.97	Average Max	V	272	194	54	-17.03	Pass
7896.12	25.97	5.87	0.11	31.96	Average Max	V	263	41	54	-22.04	Pass

1GHz-40GHz – 802.11n-40M – 5755MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17337.37	38.36	8.07	10.06	56.49	Peak Max	V	108	164	74	-17.51	Pass
12413.97	38.85	6.73	4.44	50.01	Peak Max	V	304	326	74	-23.99	Pass
7223.01	38.46	5.32	0.83	44.60	Peak Max	V	102	289	74	-29.40	Pass
17337.37	26.44	8.07	10.06	44.57	Average Max	V	108	164	54	-9.43	Pass
12413.97	26.28	6.73	4.44	37.44	Average Max	V	304	326	54	-16.56	Pass
7223.01	26.10	5.32	0.83	32.25	Average Max	V	102	289	54	-21.75	Pass

1GHz-40GHz - 802.11n-40M– 5795MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17938.07	38.79	8.17	12.03	58.99	Peak Max	V	104	219	74	-15.01	Pass
11700.67	38.08	7.85	2.44	48.37	Peak Max	V	307	88	74	-25.63	Pass
7262.10	37.97	5.33	0.84	44.14	Peak Max	V	208	316	74	-29.86	Pass
17938.07	26.95	8.17	12.03	47.15	Average Max	V	104	219	54	-6.85	Pass
11700.67	26.06	7.85	2.44	36.35	Average Max	V	307	88	54	-17.65	Pass
7262.10	25.99	5.33	0.84	32.16	Average Max	V	208	316	54	-21.84	Pass
















1GHz-40GHz - 802.11ac-80M - 5775MHz





Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17935.85	38.85	8.16	12.04	59.06	Peak Max	H	210	294	74	-14.94	Pass
12203.13	37.97	7.40	3.86	49.23	Peak Max	V	265	181	74	-24.78	Pass
8127.98	38.83	5.95	0.67	45.45	Peak Max	V	333	17	74	-28.55	Pass
17935.85	26.94	8.16	12.04	47.15	Average Max	H	210	294	54	-6.85	Pass
12203.13	25.82	7.40	3.86	37.08	Average Max	V	265	181	54	-16.92	Pass
8127.98	25.93	5.95	0.67	32.55	Average Max	V	333	17	54	-21.45	Pass

## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
<b>Conducted Emissions</b>						
R & S Receiver	ESIB 40	100179	04/21/2017	1 Year	04/21/2018	<input checked="" type="checkbox"/>
CHASE LISN	MN2050B	1018	08/16/2016	1 Year	08/16/2017	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>						
Keysight EXA 44GHz Spectrum Analyzer	N9010A	MY51440112	11/02/2016	1 Year	11/02/2017	<input checked="" type="checkbox"/>
Bi-Log antenna (30MHz-2GHz)	JB1	A030702	01/13/2017	1 Year	01/13/2018	<input checked="" type="checkbox"/>
Horn Antenna (1GHz-26GHz)	3115	100059	08/11/2016	1 Year	08/11/2017	<input checked="" type="checkbox"/>
Horn Antenna (18GHz-40GHz)	PA-840	181251	06/23/2017	1 Year	06/23/2018	<input checked="" type="checkbox"/>
Preamplifier (100KHz-7GHz)	LPA-6-30	11170602	02/09/2017	1 Year	02/09/2018	<input checked="" type="checkbox"/>
Pre-Amplifier (1-40GHz)	SAS-474	579	05/04/2017	1 Year	05/04/2018	<input checked="" type="checkbox"/>
10 Meters SAC	10M	N/A	10/06/2016	1 Year	10/06/2017	<input checked="" type="checkbox"/>
<b>RF Conducted Measurement</b>						
Spectrum Analyzer	N9010A	10SL0219	11/16/2016	1 Year	11/16/2017	<input checked="" type="checkbox"/>

## Annex B. SIEMIC Accreditation

Accreditations	Document	Scope / Remark
ISO 17025 (A2LA)		Please see the documents for the detailed scope
ISO Guide 65 (A2LA)		Please see the documents for the detailed scope
TCB Designation		A1, A2, A3, A4, B1, B2, B3, B4, C
FCC DoC Accreditation		FCC Declaration of Conformity Accreditation
FCC Site Registration		3 meter site
FCC Site Registration		10 meter site
IC Site Registration		3 meter site
IC Site Registration		10 meter site
EU NB		<b>Radio Equipment: EN45011:</b> EN ISO/IEC 17065
		<b>Electromagnetic Compatibility:</b> EN45011 – EN ISO/IEC 17065
Singapore iDA CB(Certification Body)		Phase I, Phase II
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope
Hong Kong OFCA		(Phase II) OFCA Foreign Certification Body for Radio and Telecom
		(Phase I) Conformity Assessment Body for Radio and Telecom
Industry Canada CAB		<b>Radio:</b> Scope A – All Radio Standard Specification in Category I
		<b>Telecom:</b> CS-03 Part I, II, V, VI, VII, VIII

Japan Recognized Certification Body Designation		<p><b>Radio:</b> A1. Terminal equipment for purpose of calling</p> <p><b>Telecom:</b> B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law</p>
Korea CAB Accreditation		<p><b>EMI:</b> KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI</p> <p><b>EMS:</b> KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS</p>
		<p><b>Radio:</b> RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007-80, RRL Notice 2004-68</p> <p><b>Telecom:</b> President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6; President Notice 20664, RRL Notice 2008-7 with attachment 4</p>
Taiwan NCC CAB Recognition		LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition		CNS 13438
Japan VCCI		<p>R-3083: Radiation 3 meter site</p> <p>C-3421: Main Ports Conducted Interference Measurement</p> <p>T-1597: Telecommunication Ports Conducted Interference Measurement</p>
Australia CAB Recognition		<p><b>EMC:</b> AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4</p>
		<p><b>Radiocommunications:</b> AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771</p>
		<p><b>Telecommunications:</b> AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06, AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/ACIF S60950.1</p>
Australia NATA Recognition		AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016, AS/ACIF S031, AS/ACIF S038, AS/ACIF S040, AS/ACIF S041, AS/ACIF S043.2