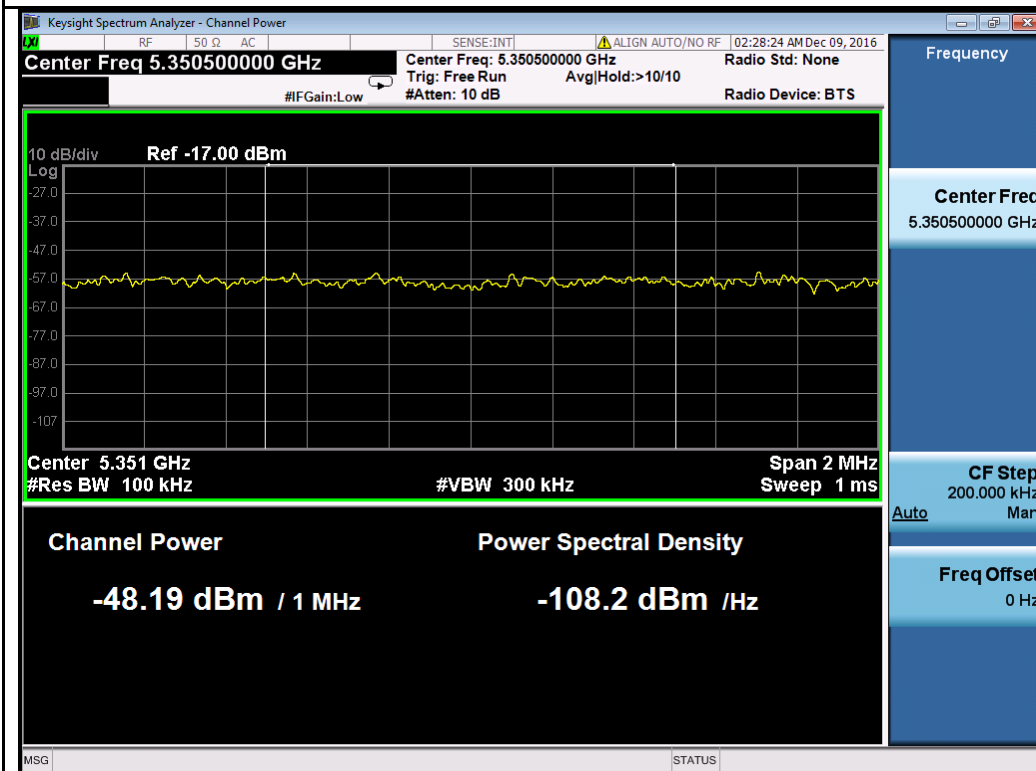
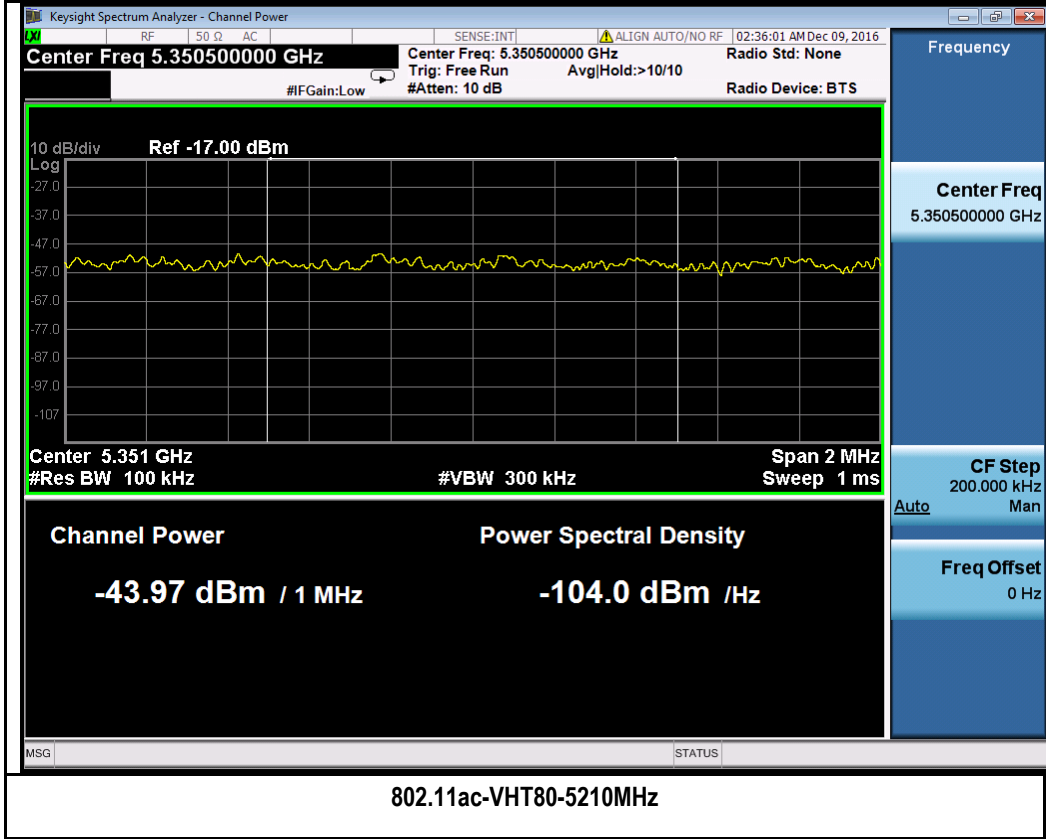


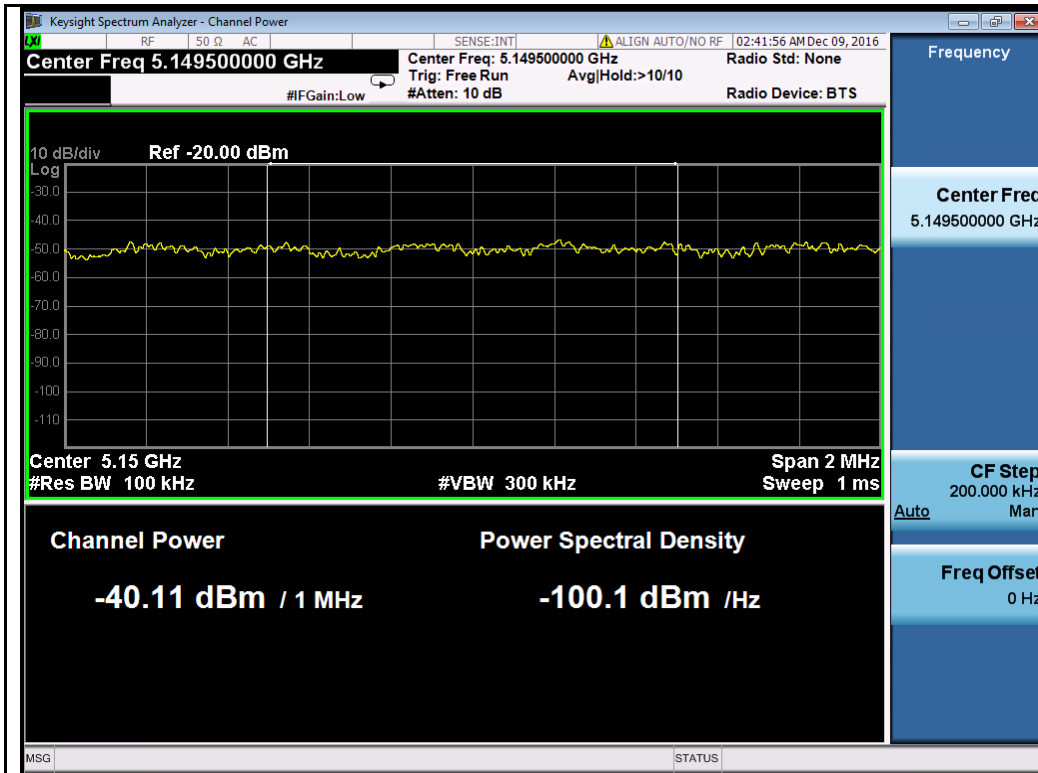
802.11n-HT40-5190MHz



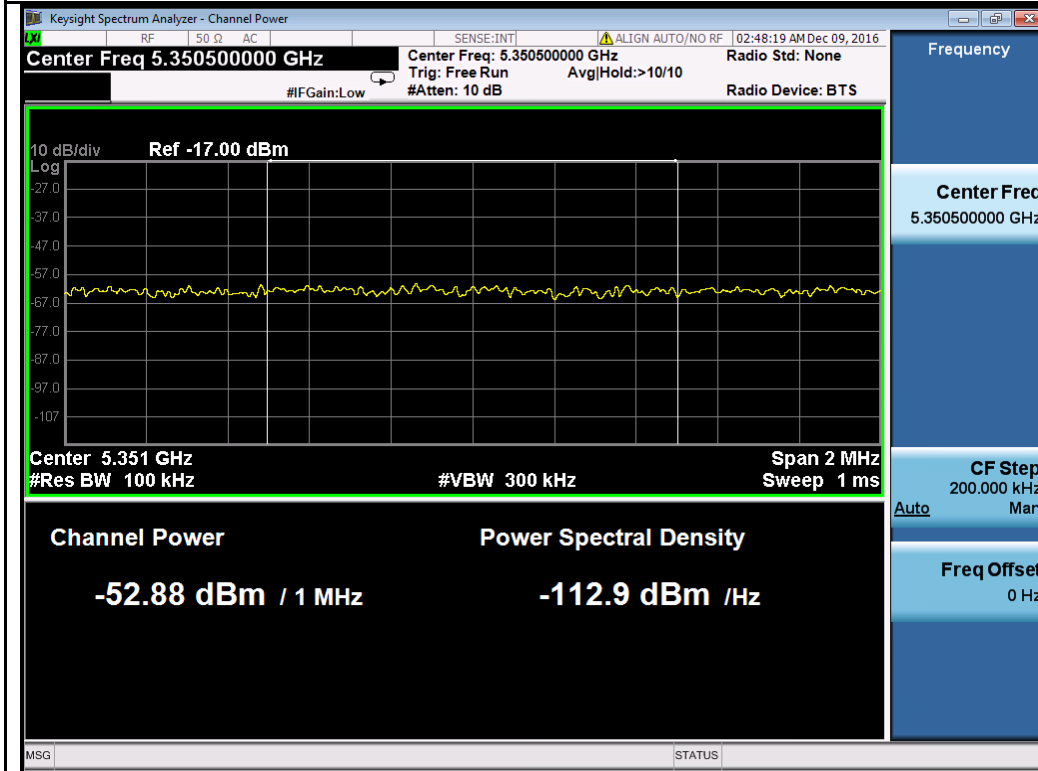
802.11n-HT40-5230MHz



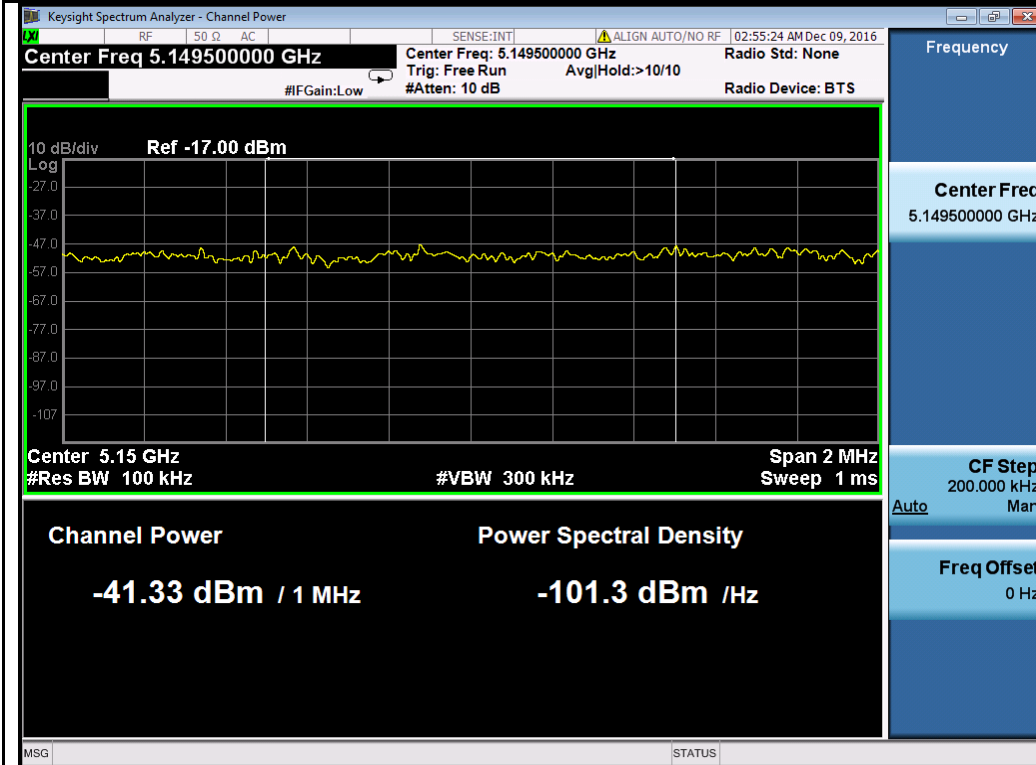
**Chain 3:**



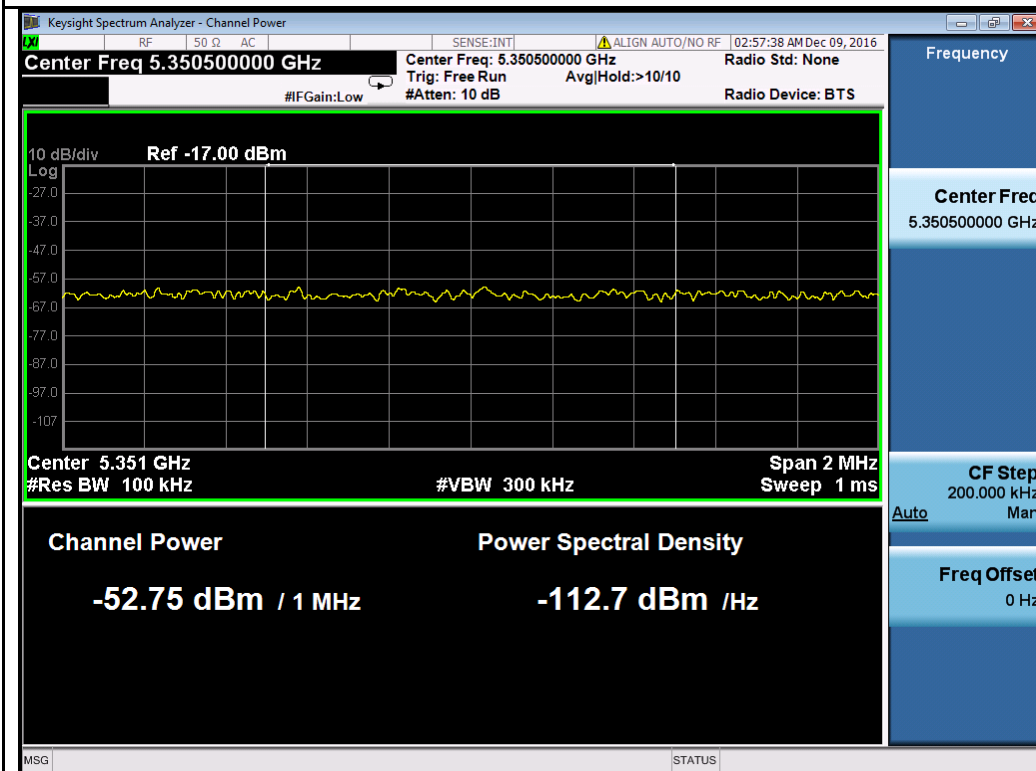
802.11a-5180MHz



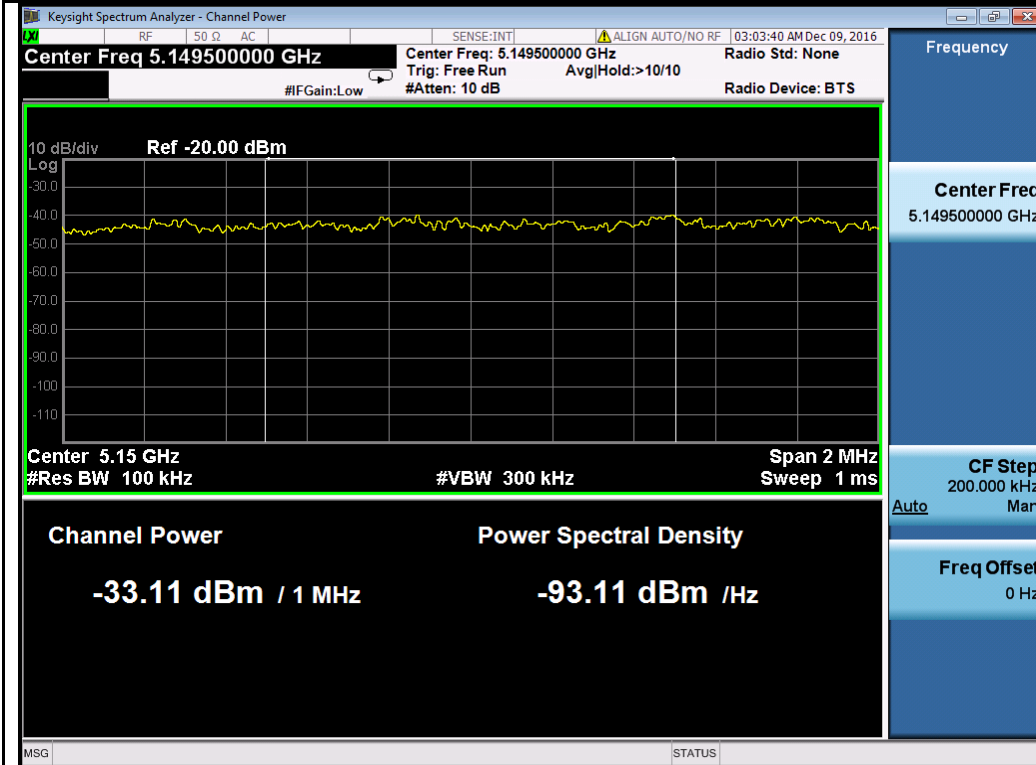
802.11a-5240MHz



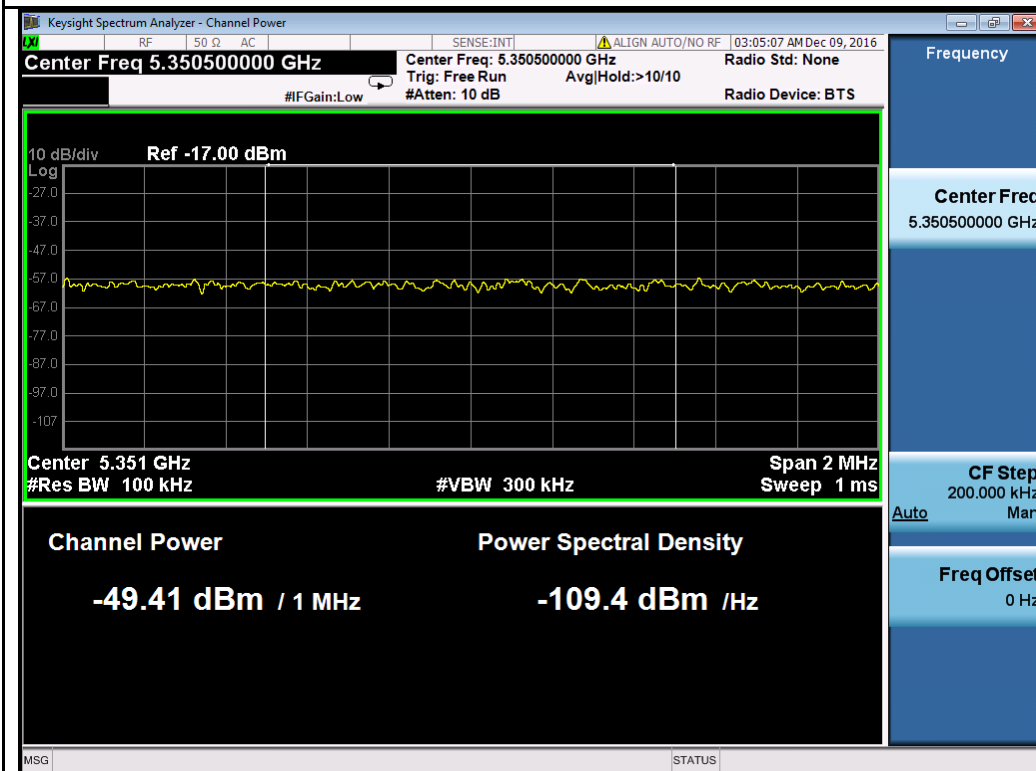
802.11n-HT20-5180MHz



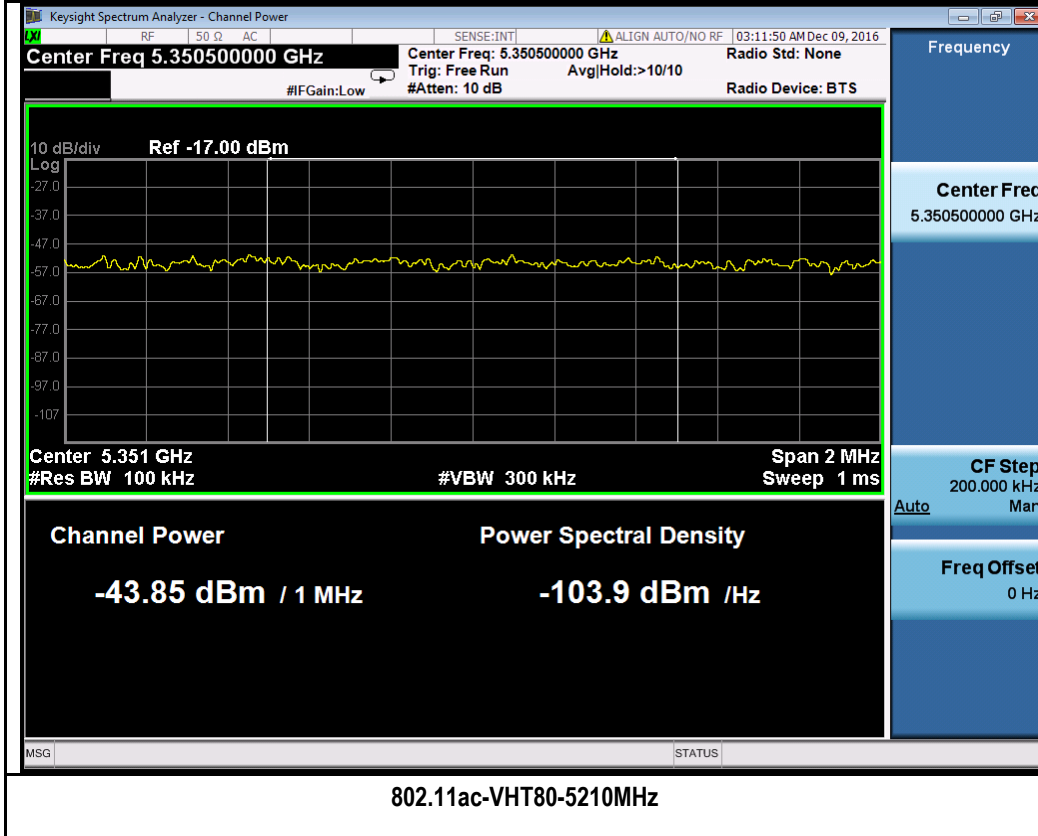
802.11n-HT20-5240MHz



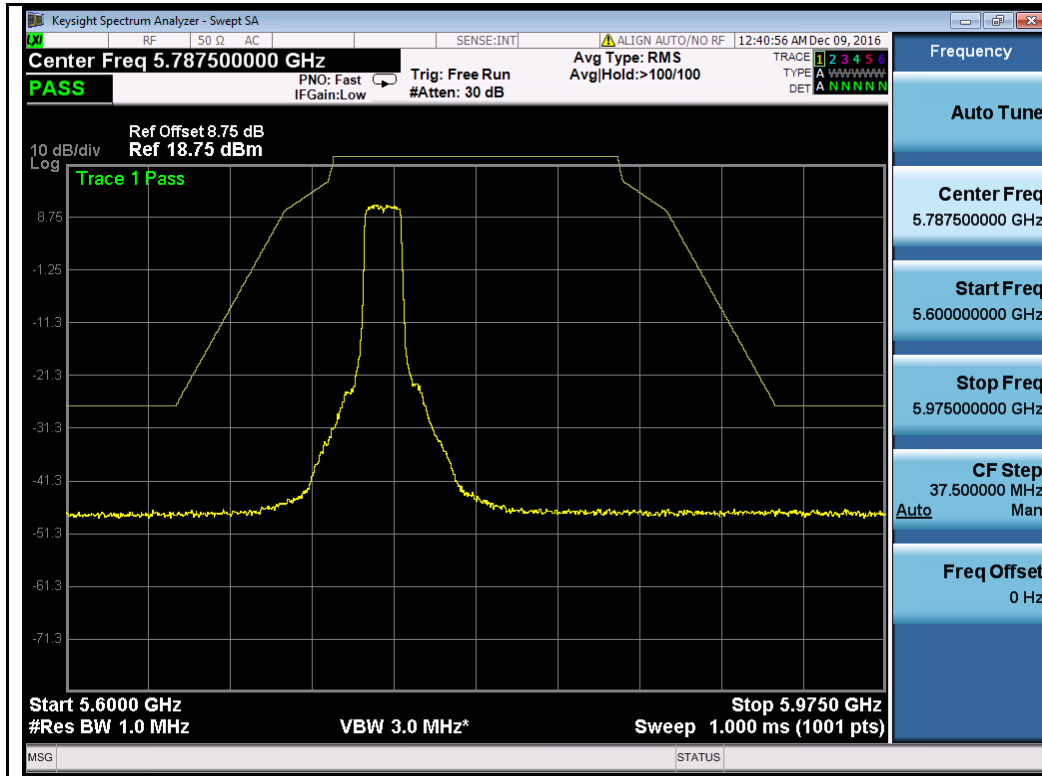
802.11n-HT40-5190MHz



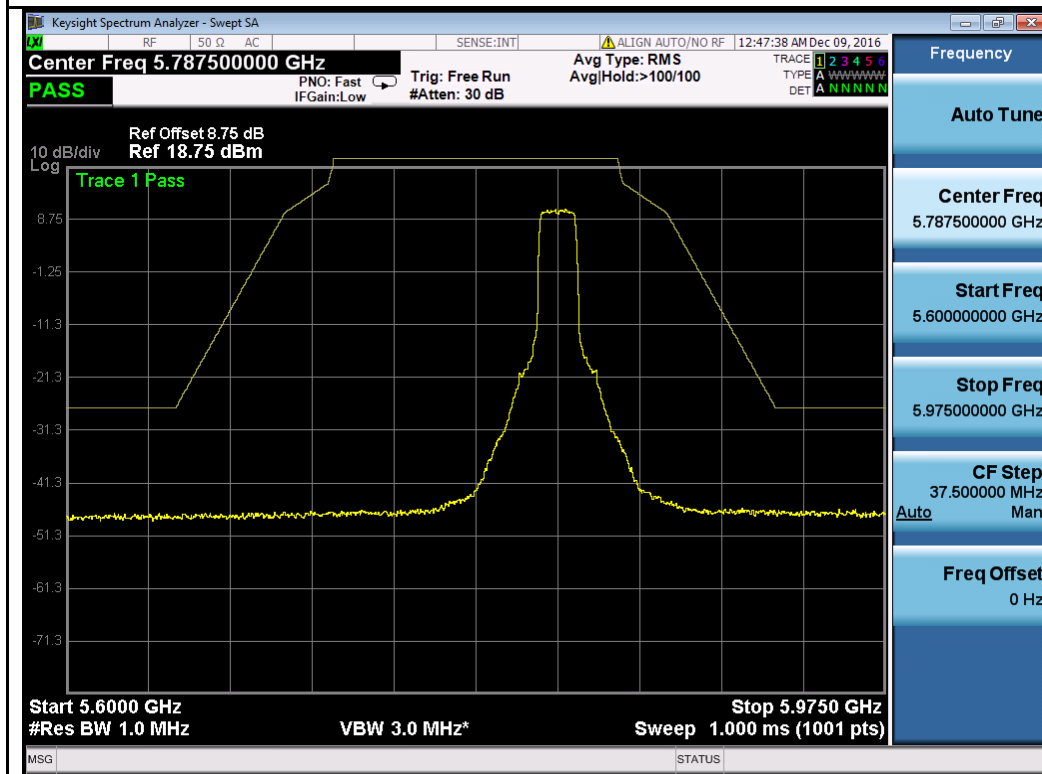
802.11n-HT40-5230MHz



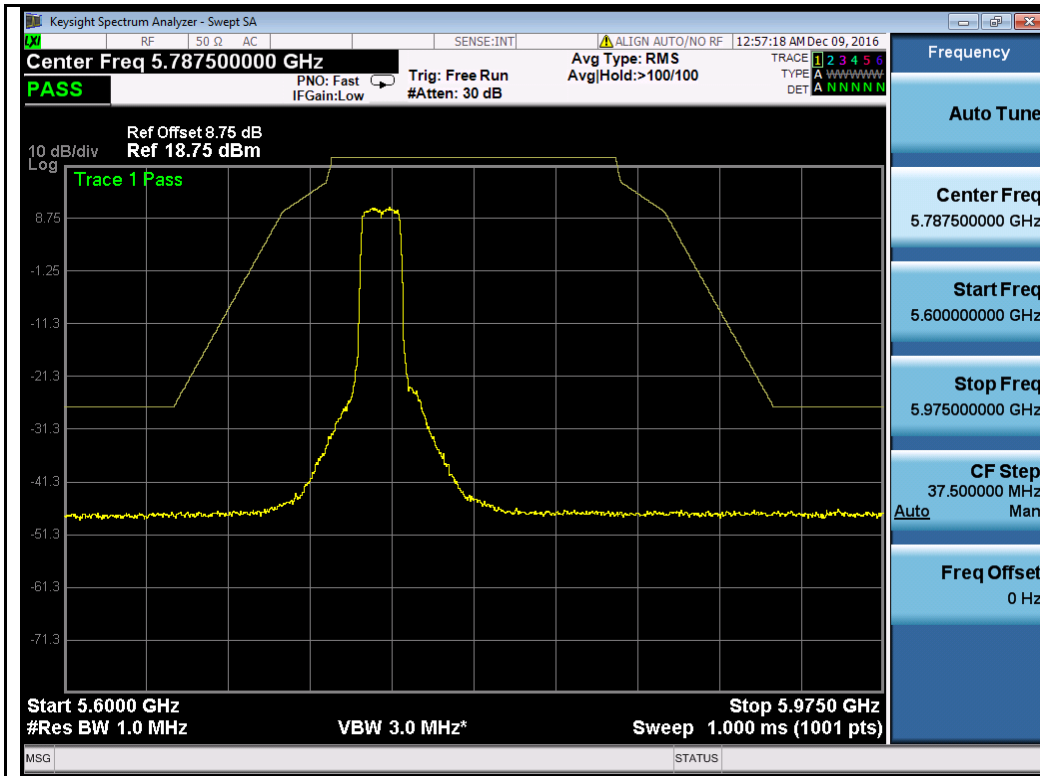
**Test Plots for W58:  
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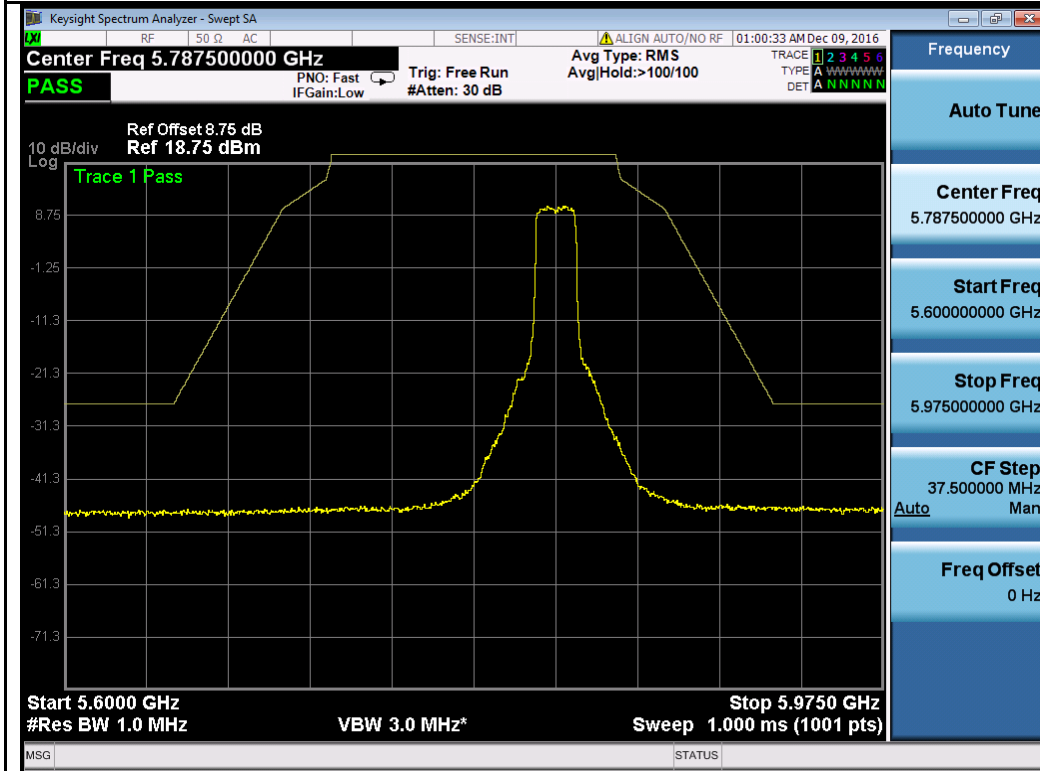
802.11a-5745MHz



802.11a-5825MHz

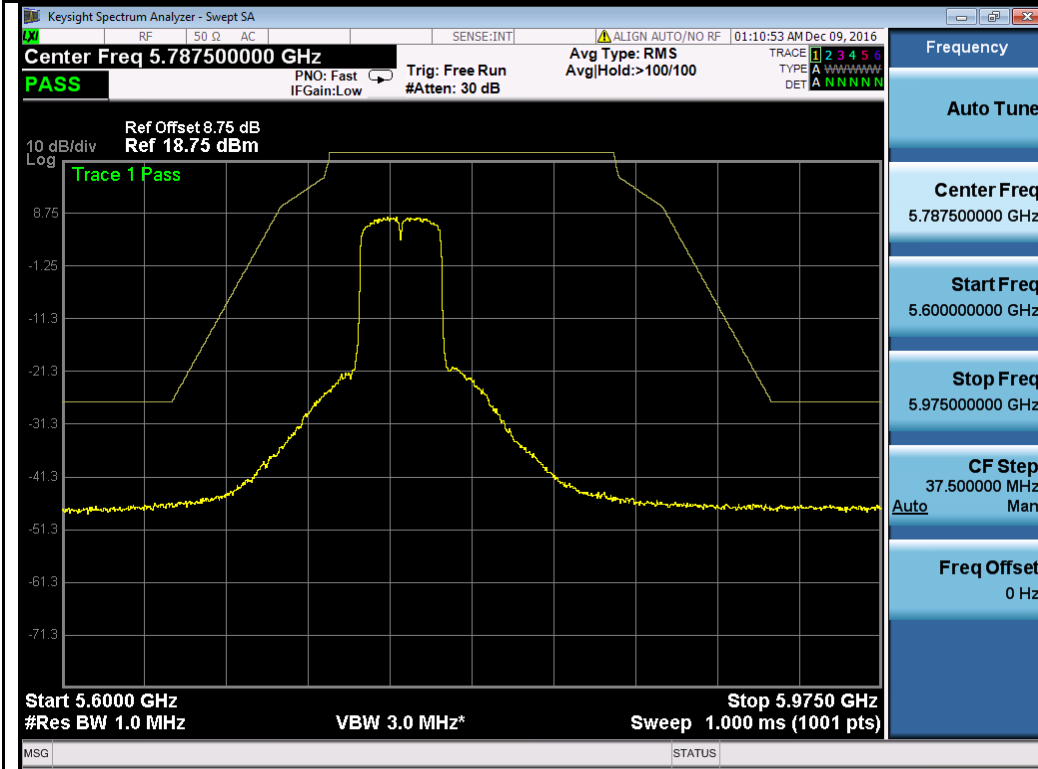


802.11n-HT20-5745MHz

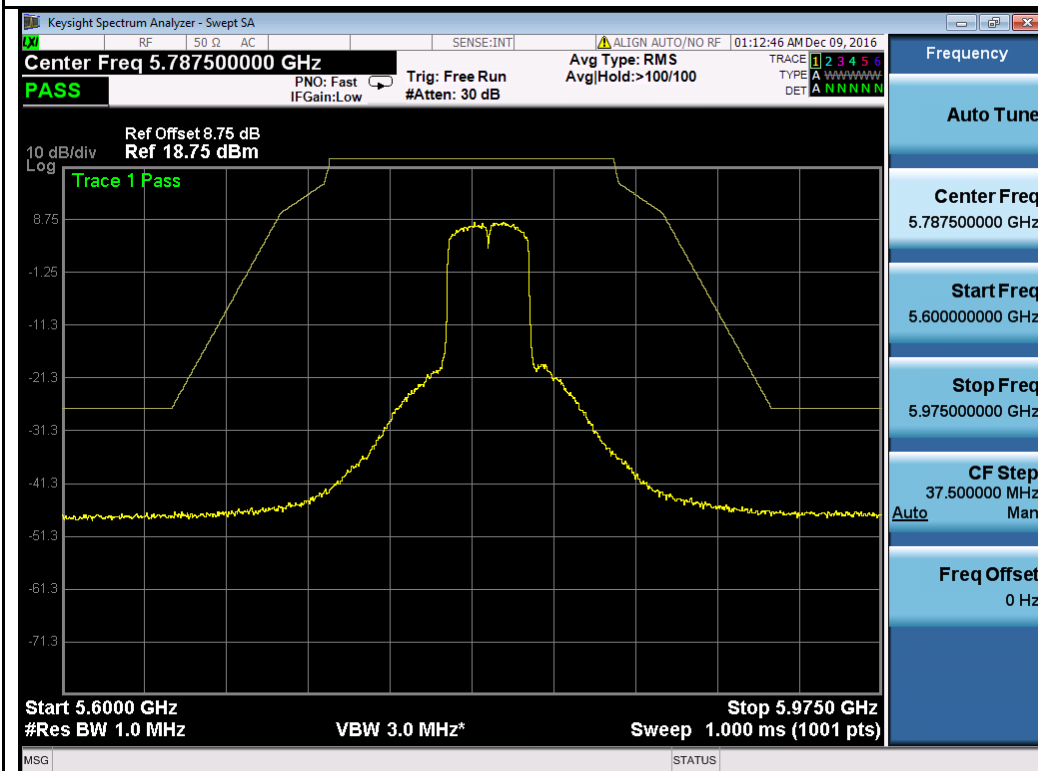


802.11n-HT20-5825MHz

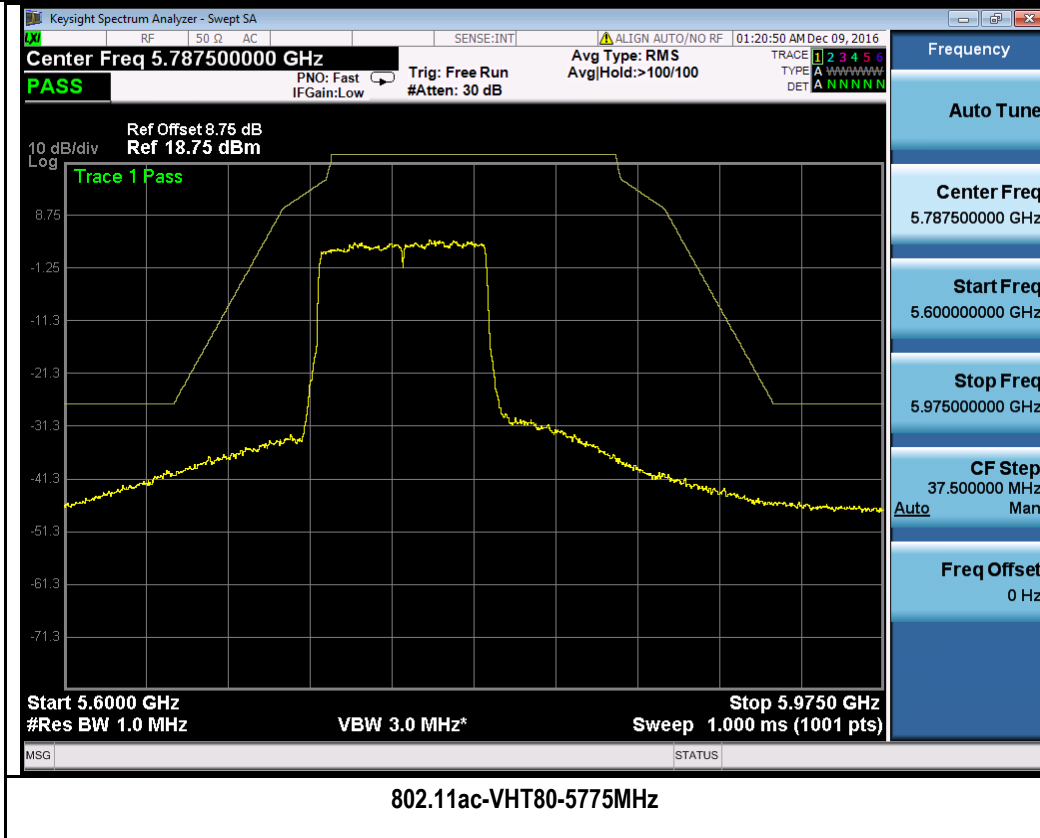




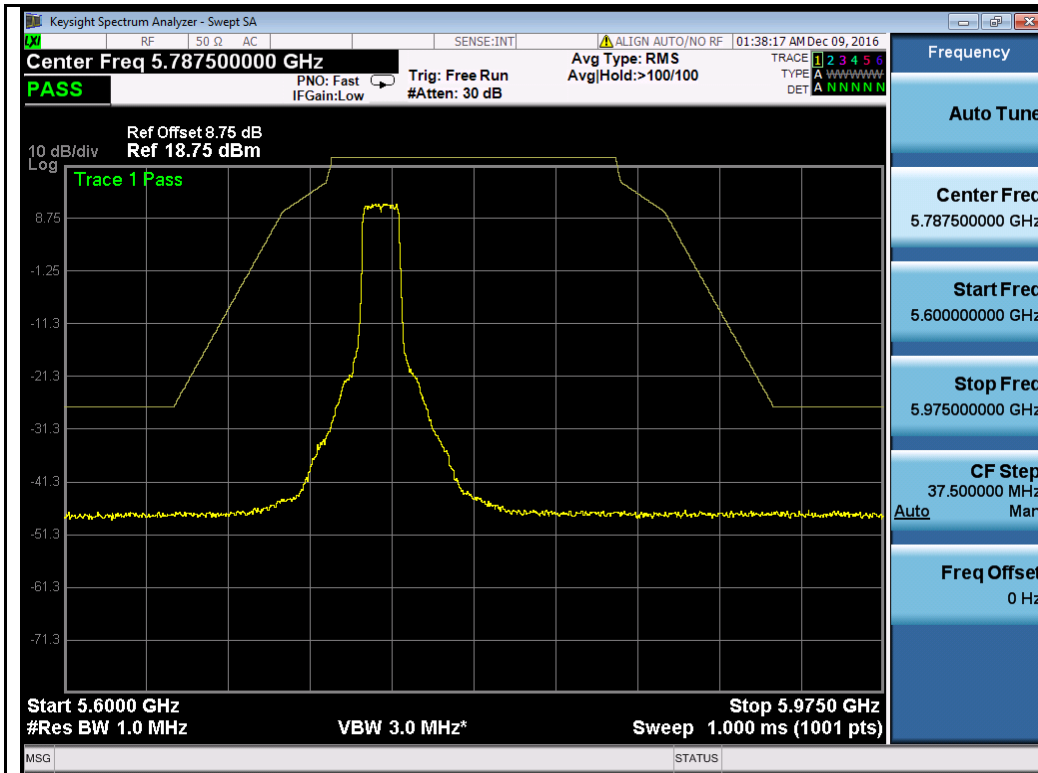
802.11n-HT40-5755MHz



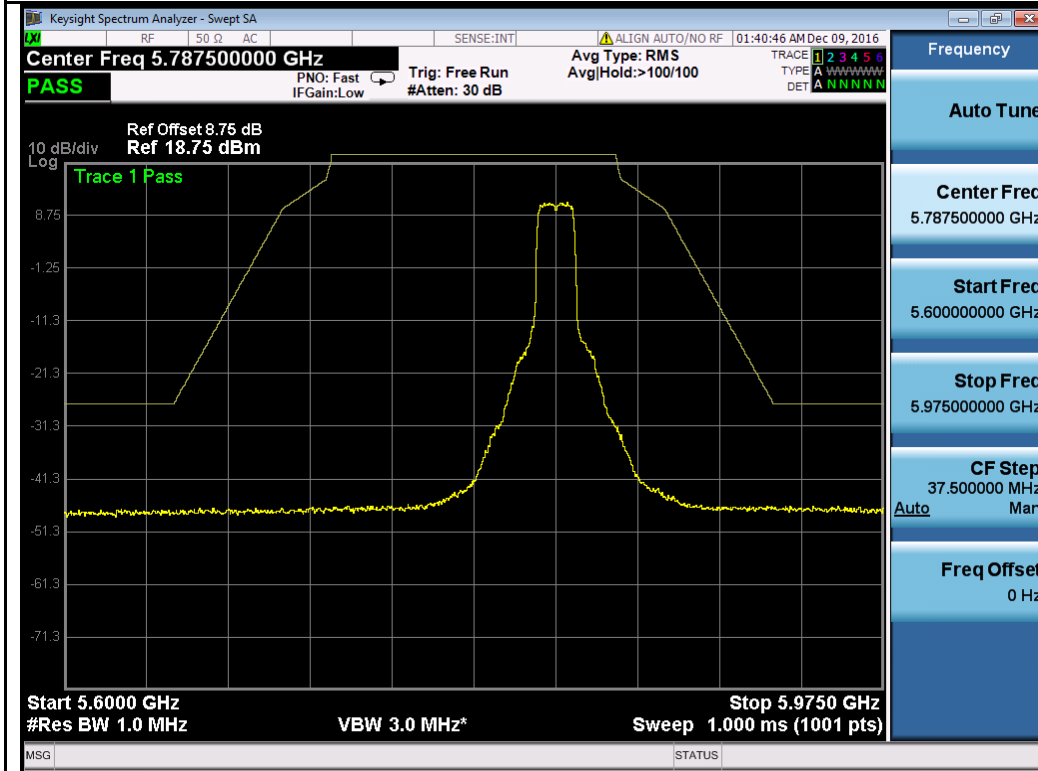
802.11n-HT40-5795MHz



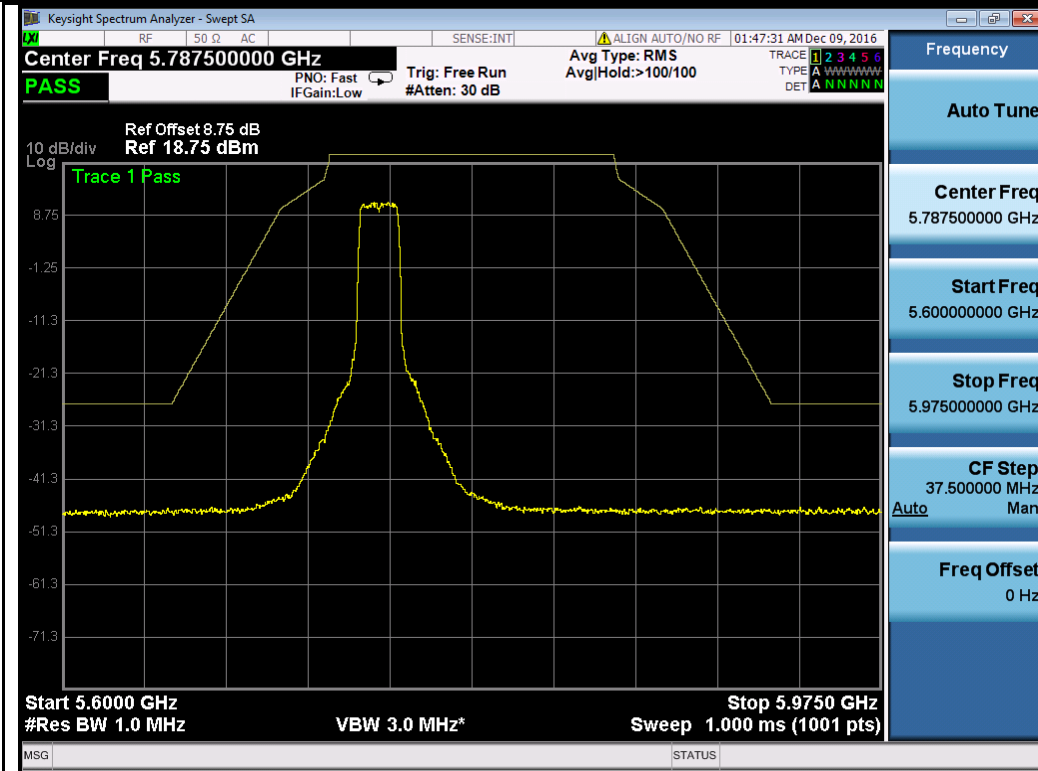
**Chain 2:**



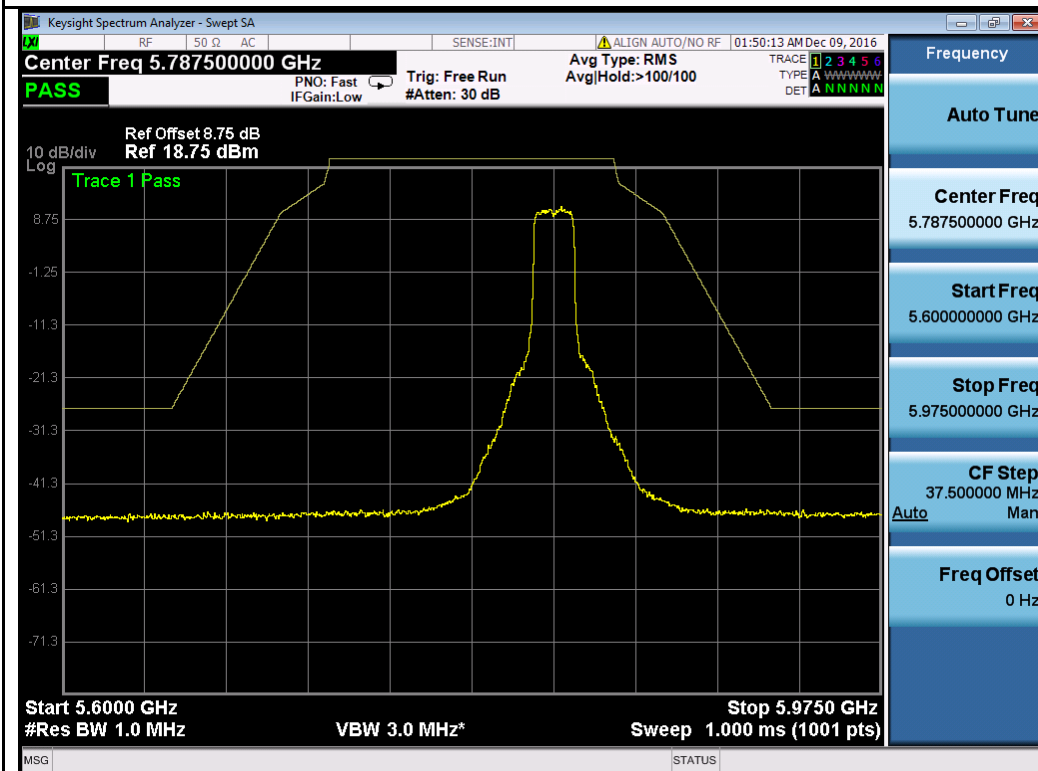
802.11a-5745MHz



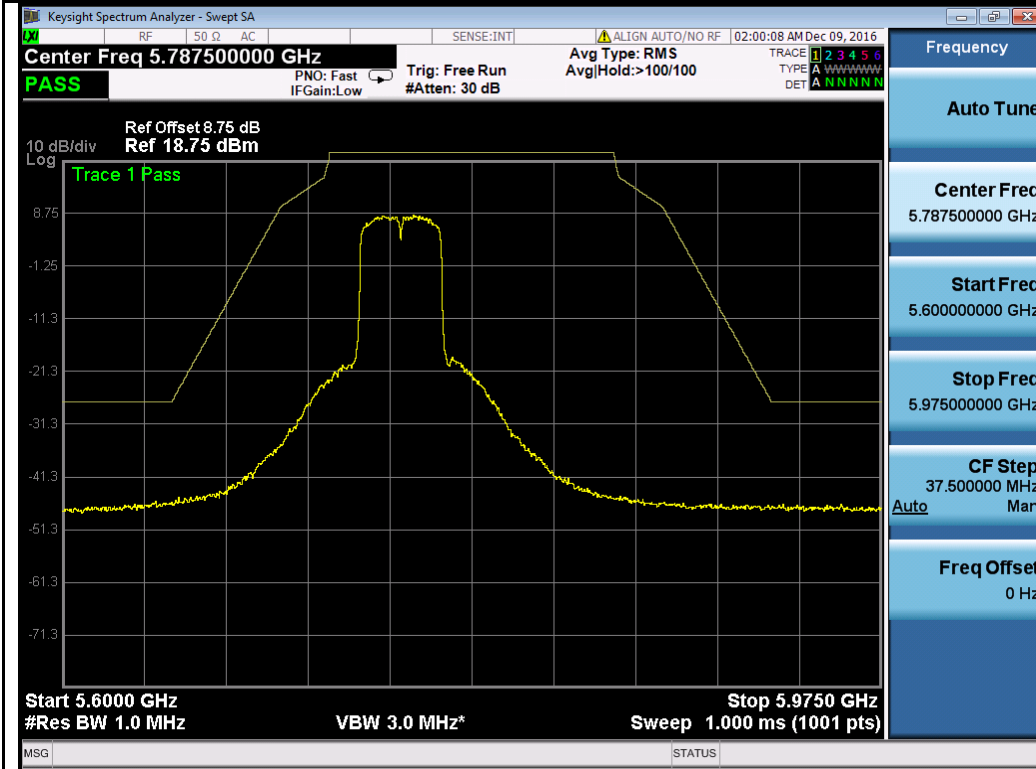
802.11a-5825MHz



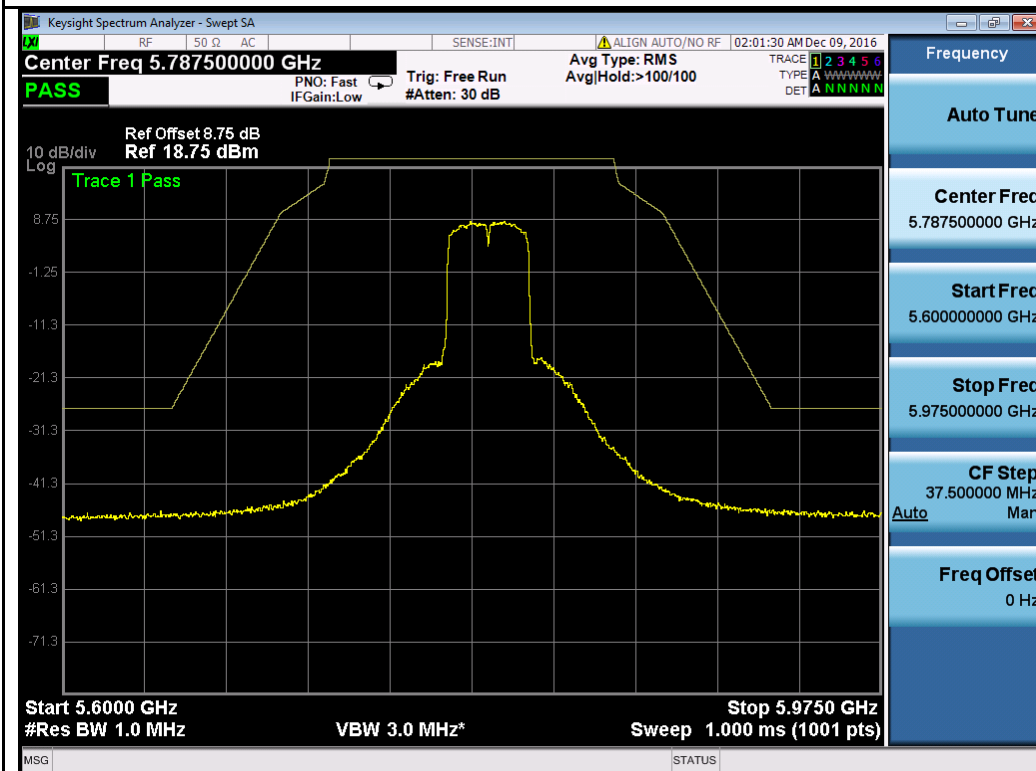
802.11n-HT20-5745MHz



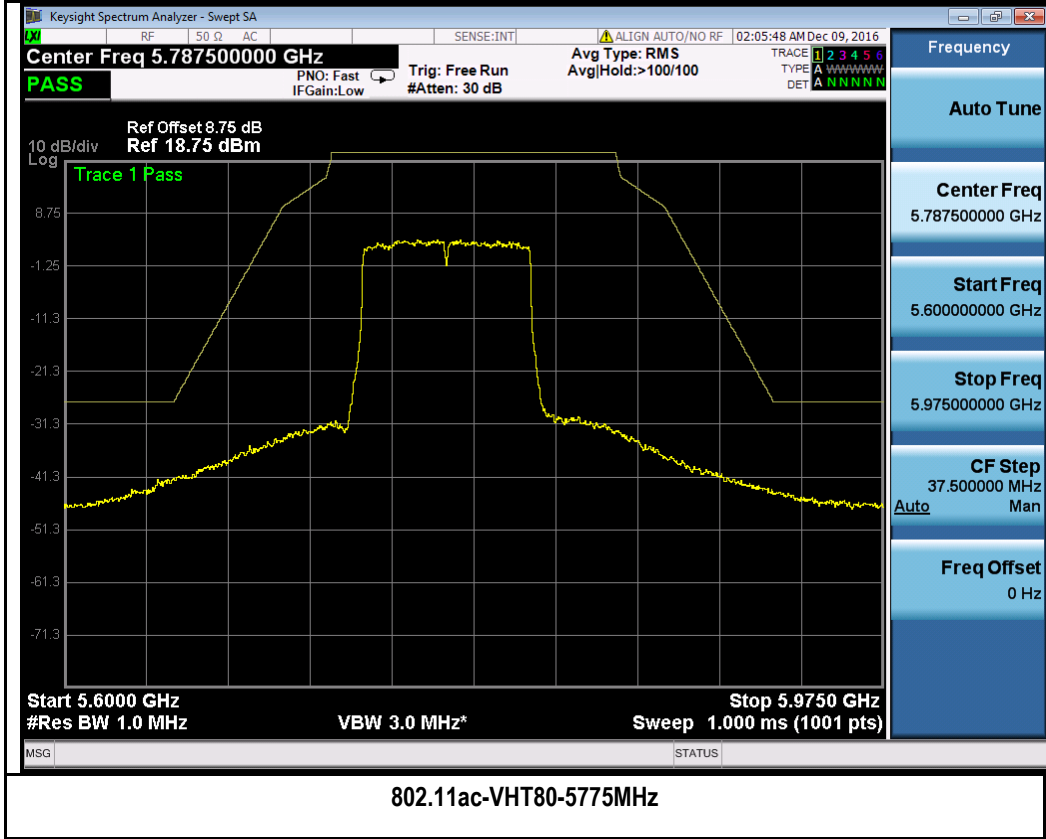
802.11n-HT20-5825MHz



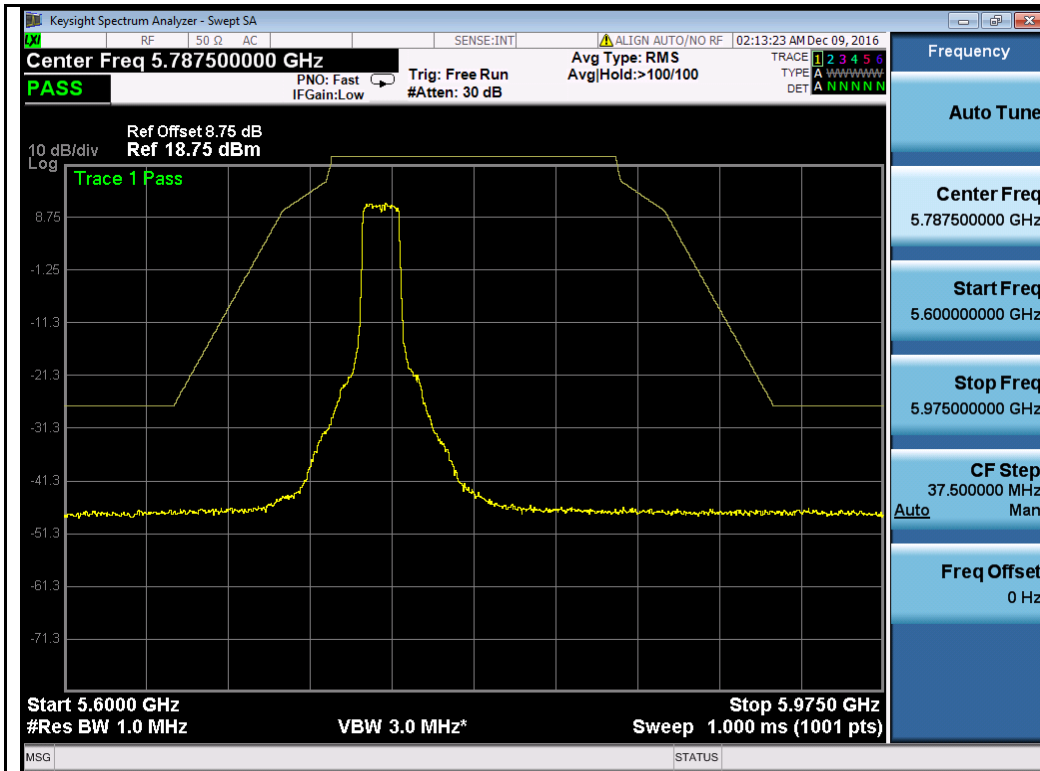
802.11n-HT40-5755MHz



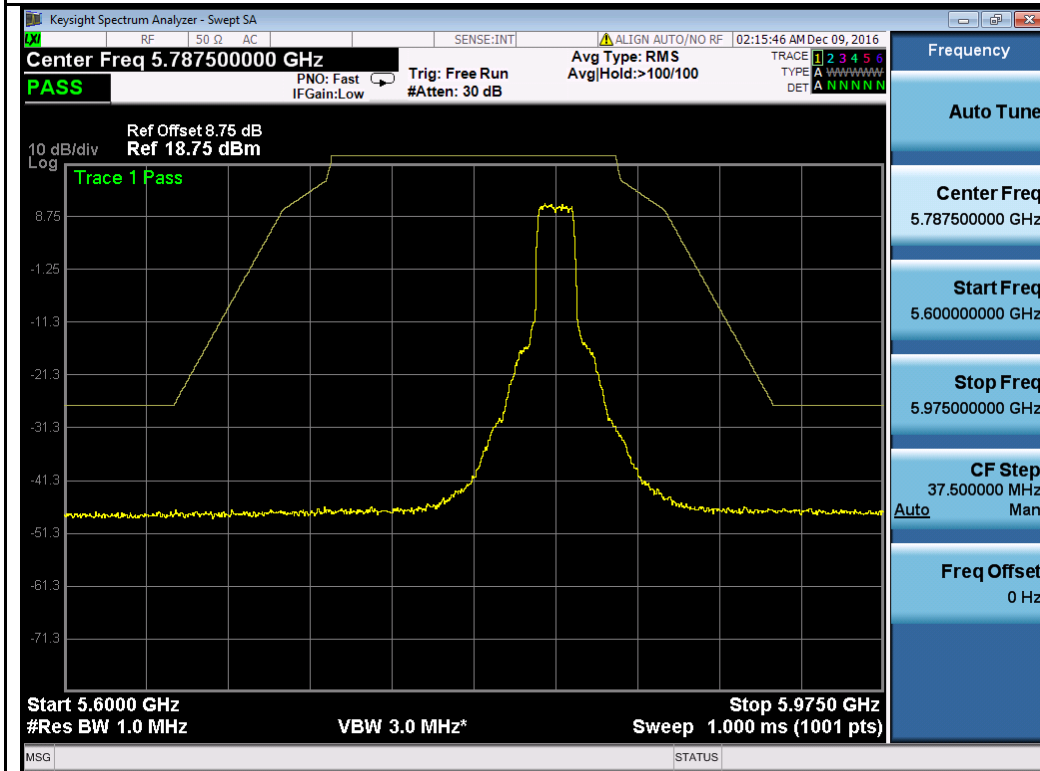
802.11n-HT40-5795MHz



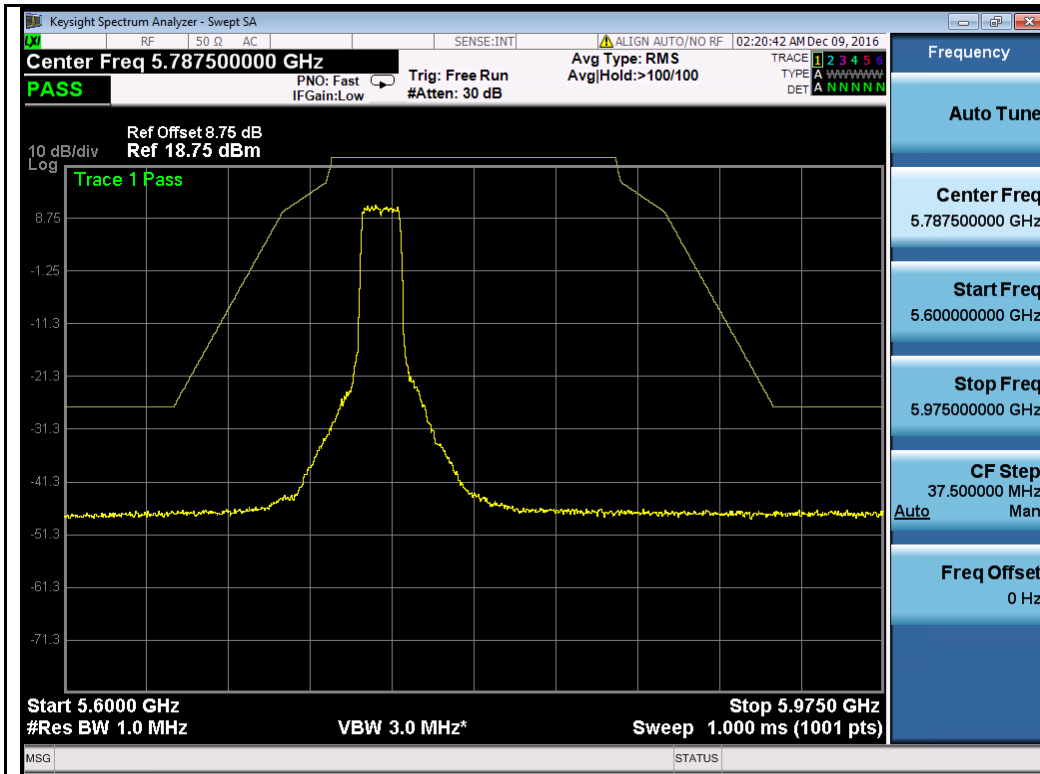
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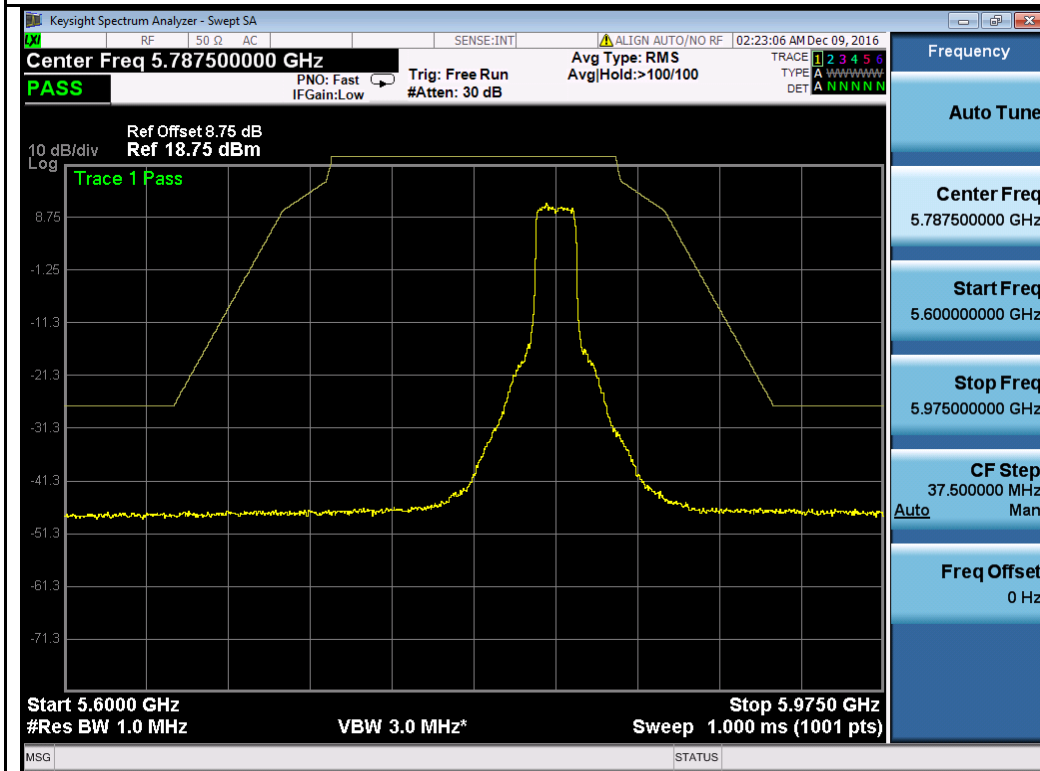
802.11a-5745MHz



802.11a-5825MHz

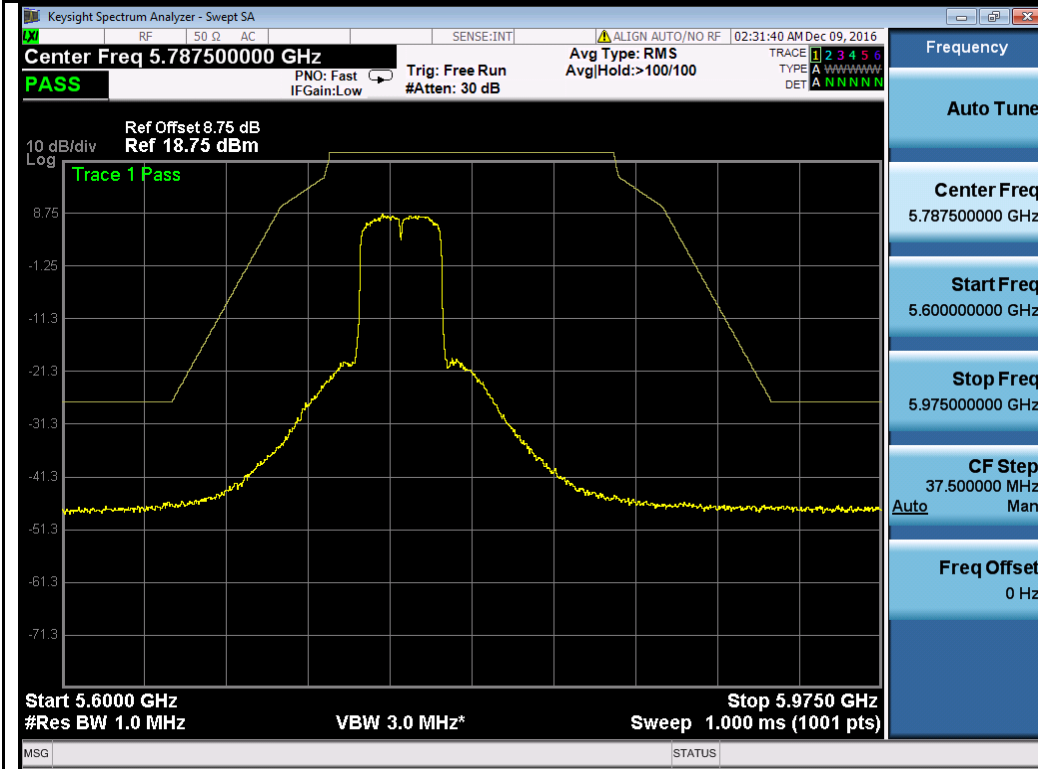


802.11n-HT20-5745MHz

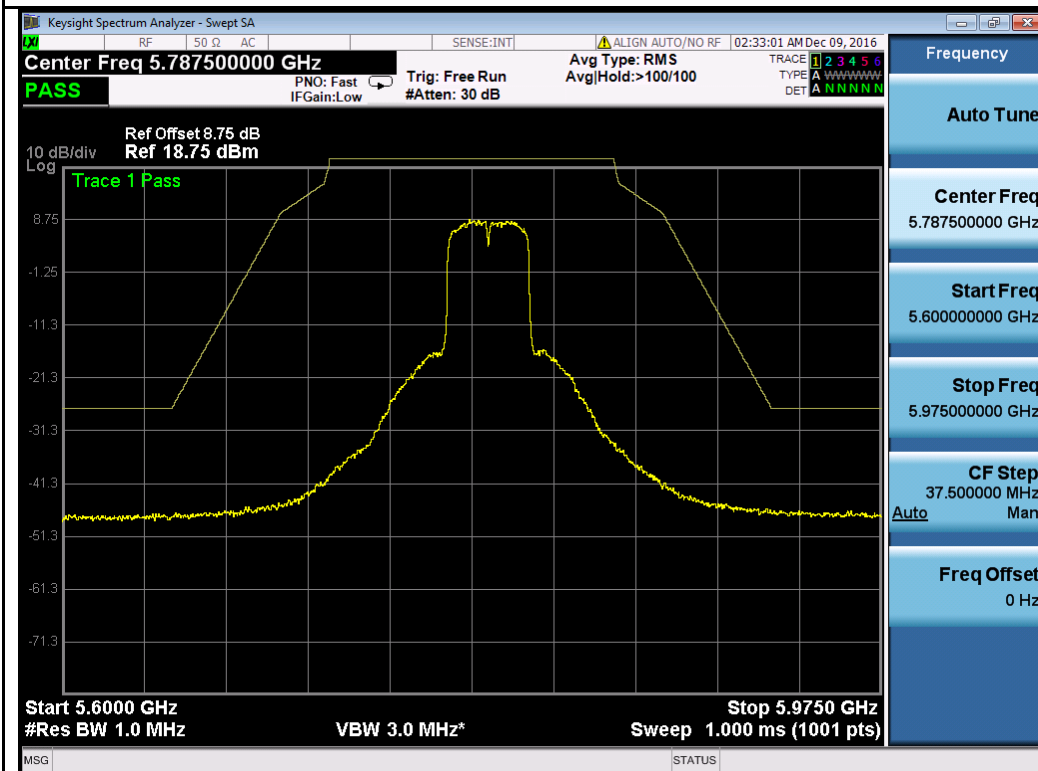


802.11n-HT20-5825MHz

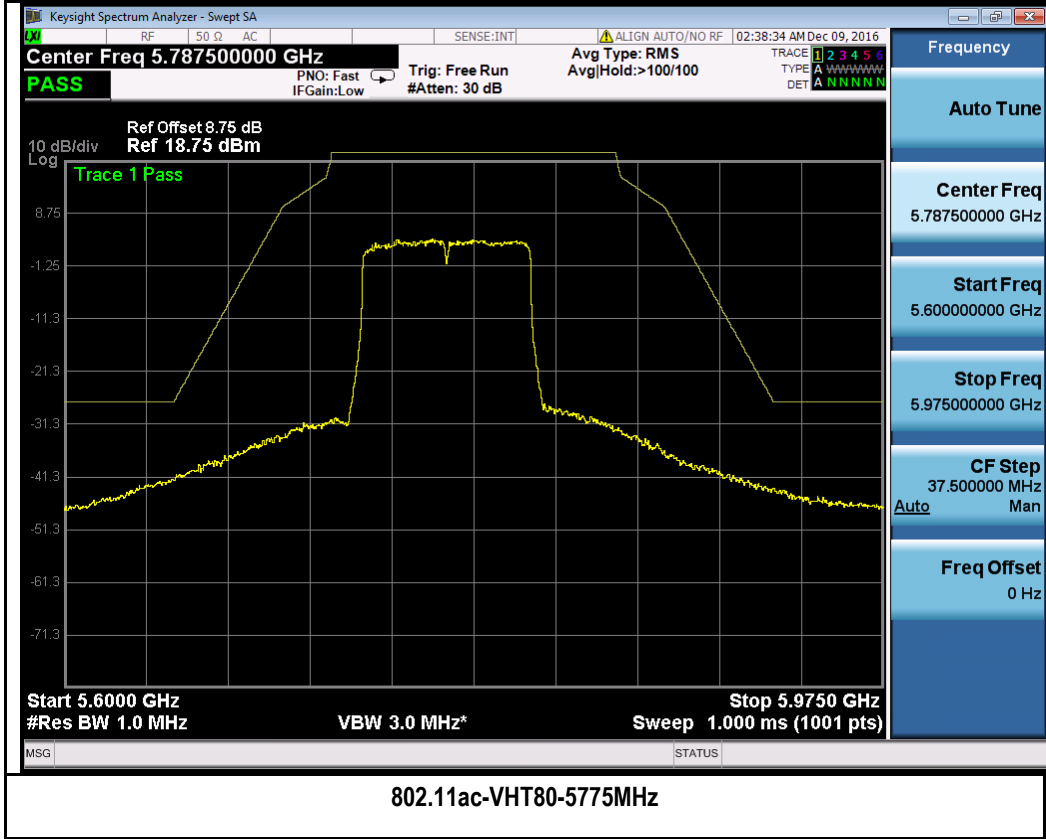




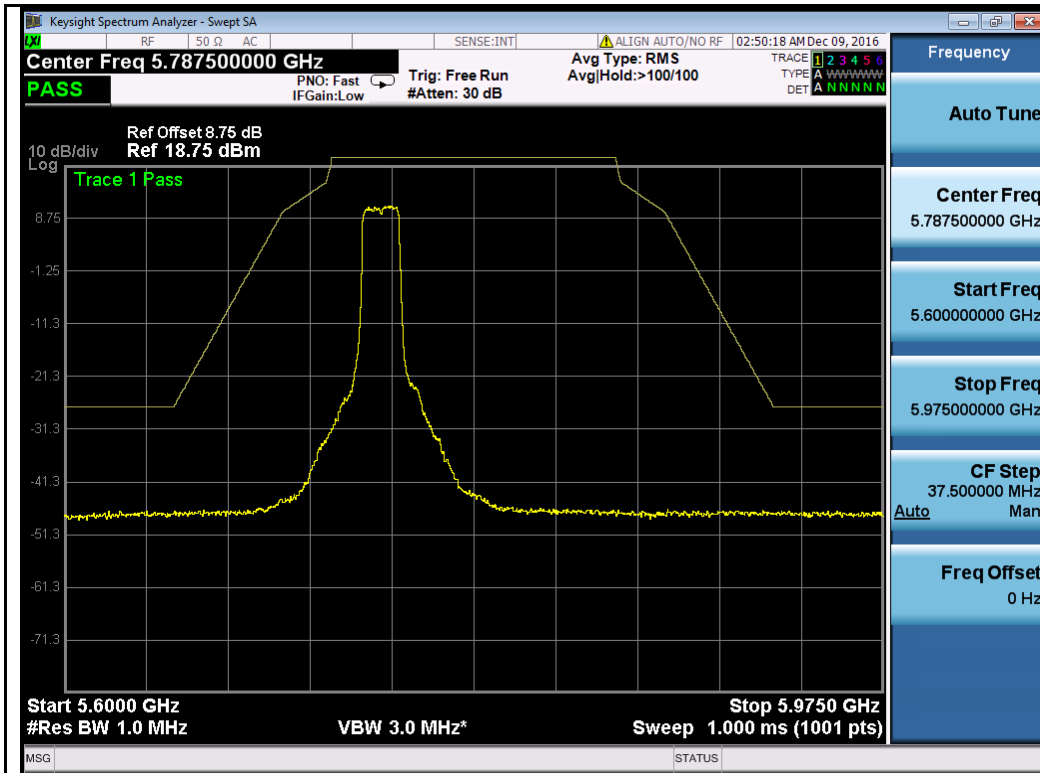
802.11n-HT40-5755MHz



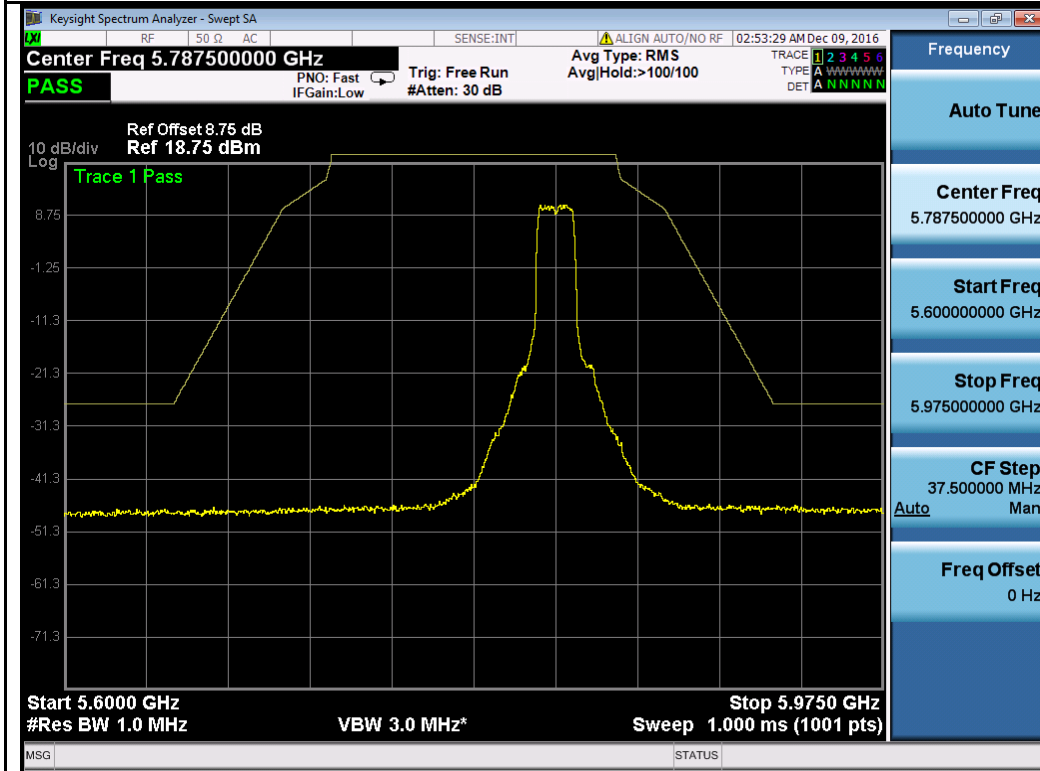
802.11n-HT40-5795MHz



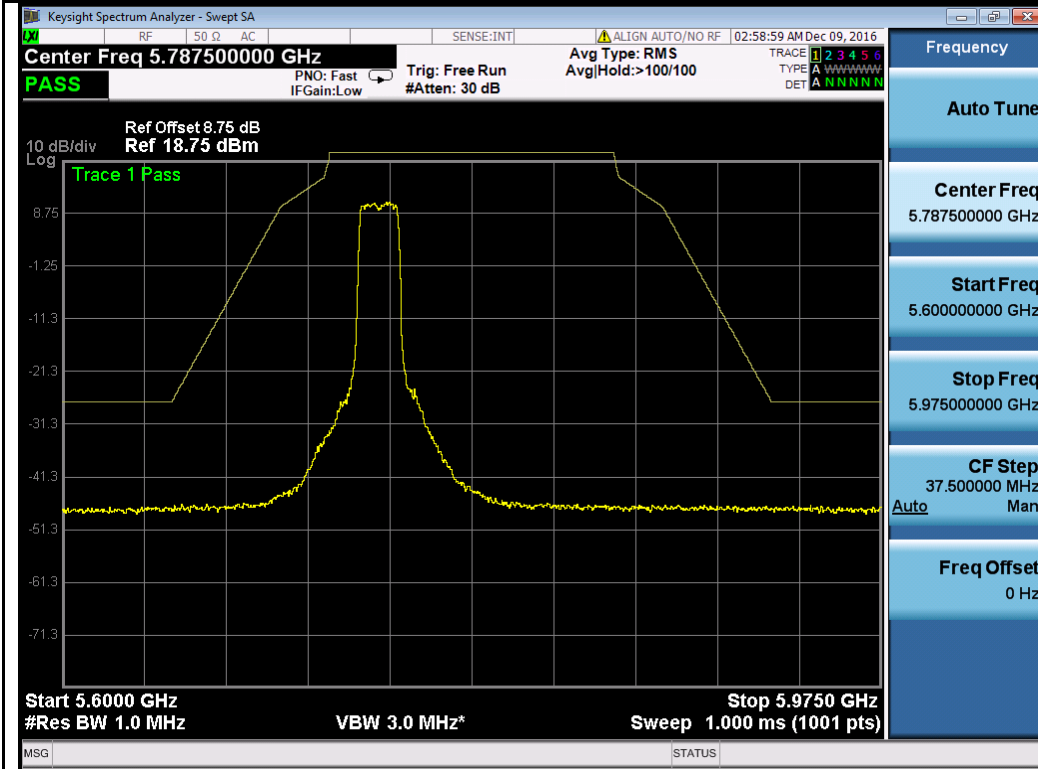
**Chain 4:**



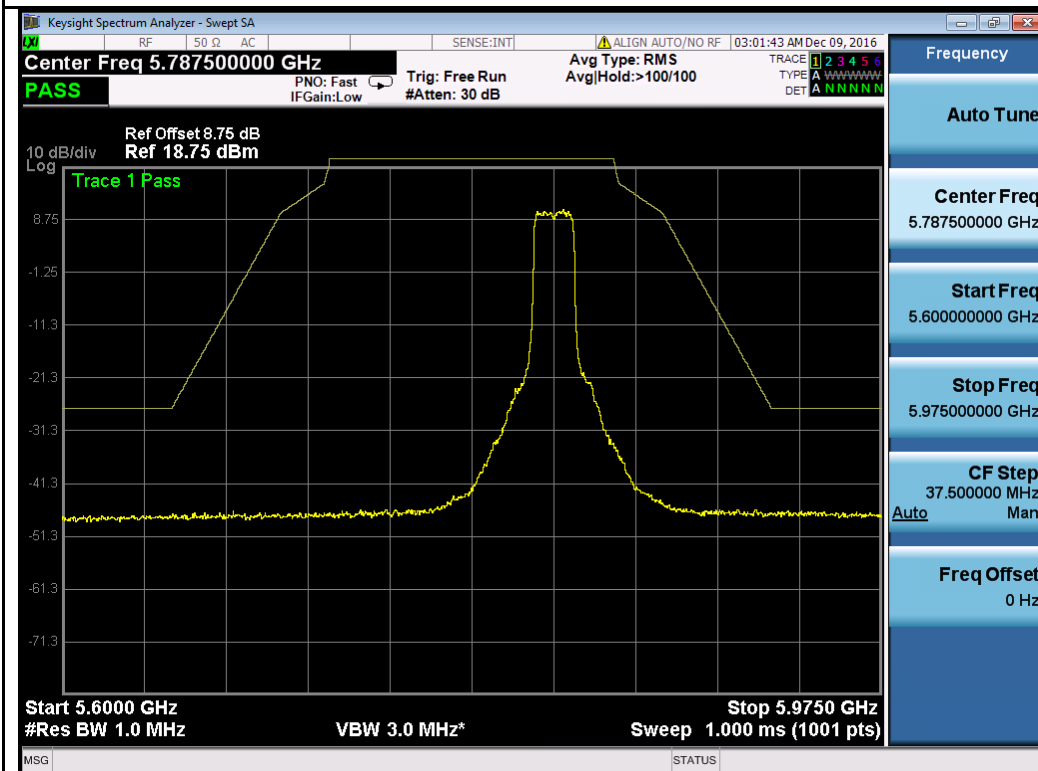
802.11a-5745MHz



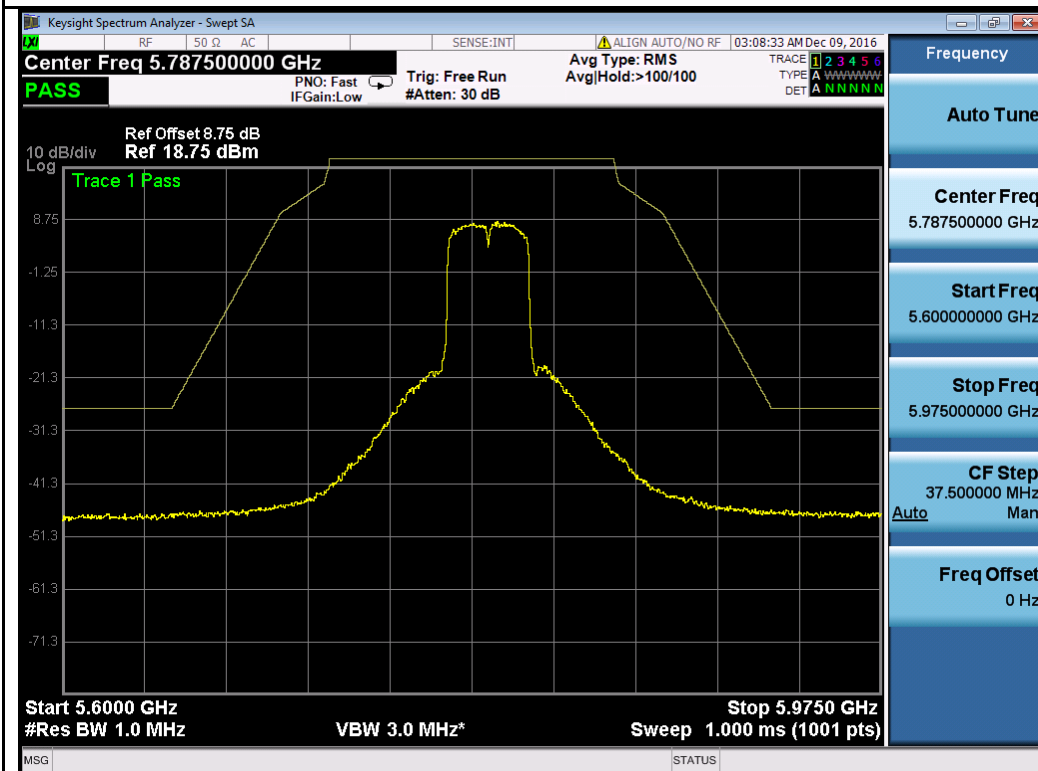
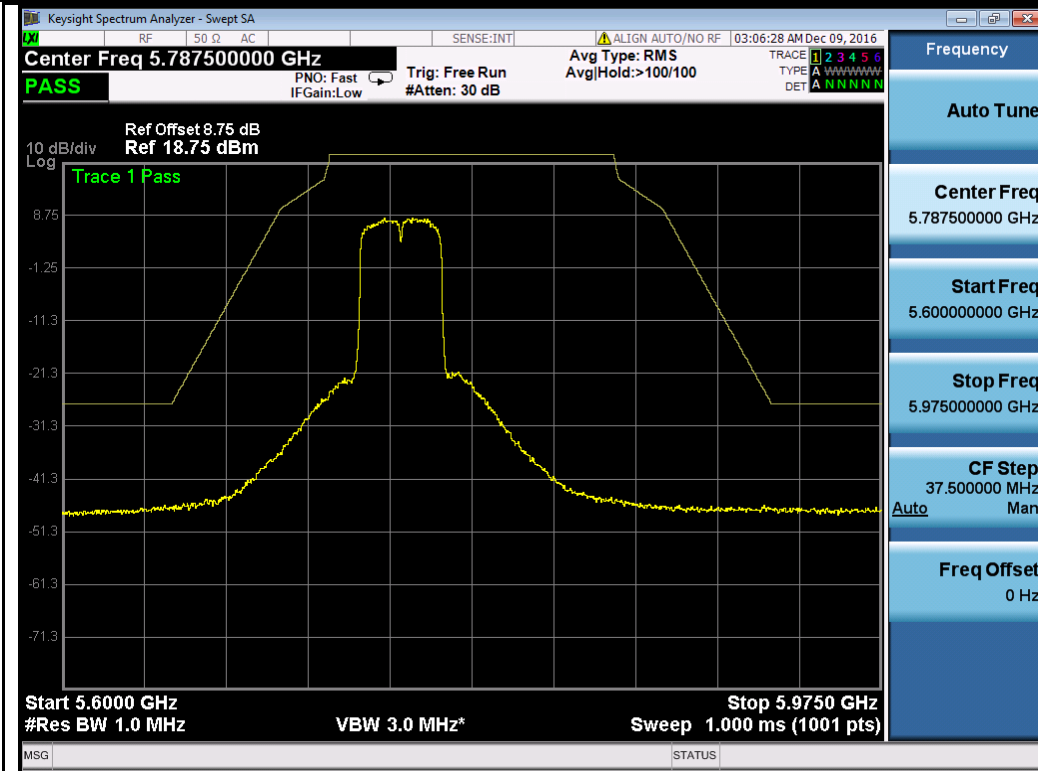
802.11a-5825MHz

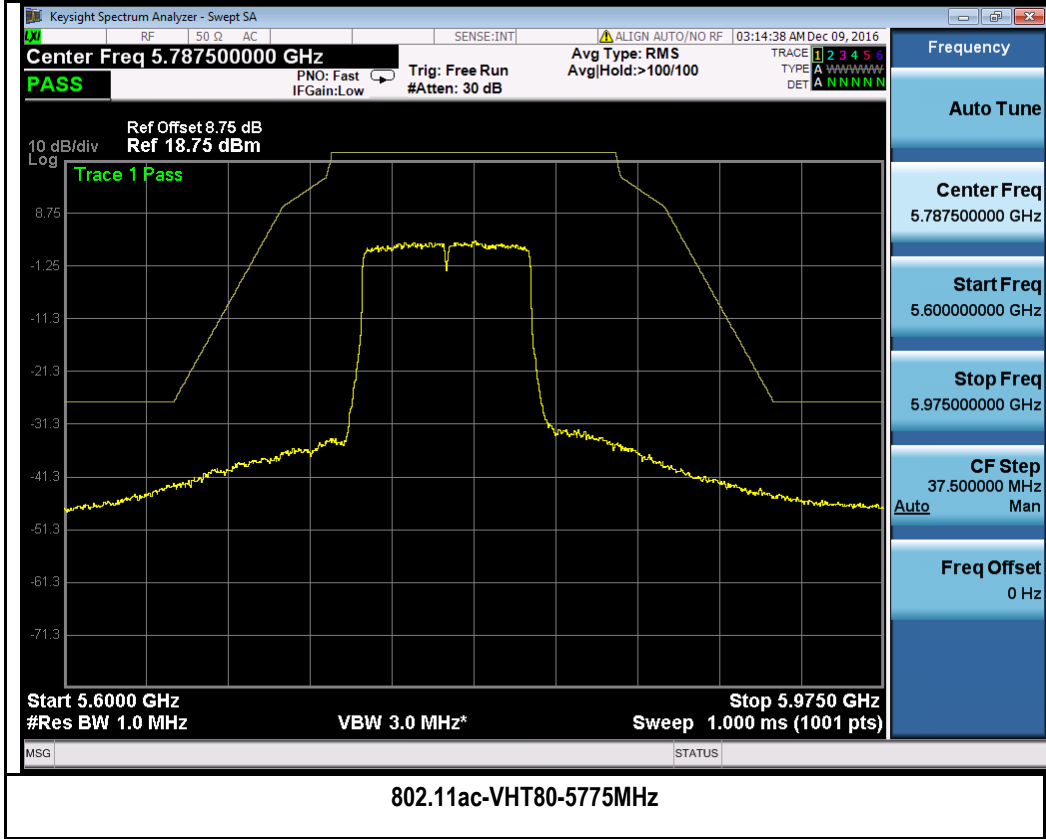


802.11n-HT20-5745MHz



802.11n-HT20-5825MHz





## 10.6 Radiated Emissions below 1GHz

### Requirement(s):

Spec	Requirement	Applicable										
47CFR§ 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											

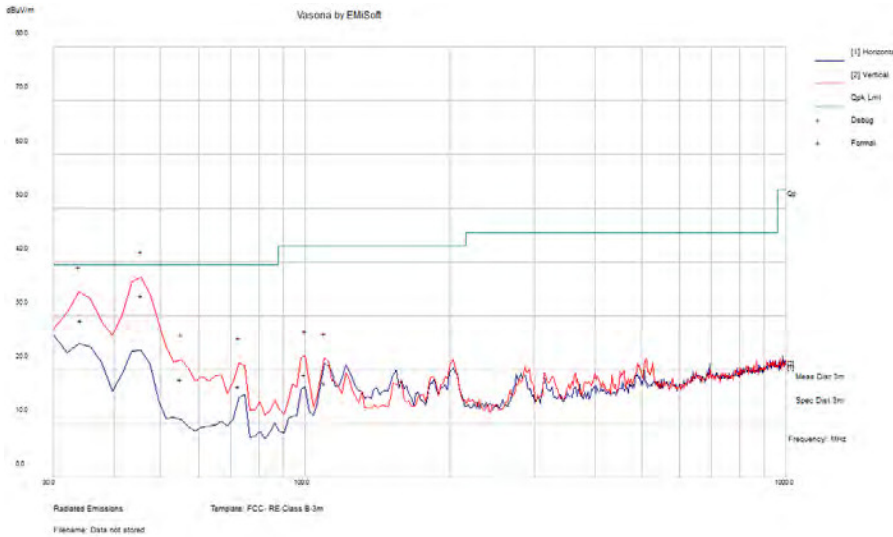
**Test Data**    ☒ Yes (See below)      ☐ N/A

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

**Test was done by Shuo Zhang 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:	Shuo Zhang				
Test Date:	01/11/2017				
Remarks:	802.11ac – VHT80, 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
45.60	60.95	0.98	-28.09	33.85	Quasi Max	V	156	303	39.5	-5.65	Pass
34.13	48.25	0.83	-19.92	29.16	Quasi Max	V	123	301	39.5	-10.34	Pass
55.09	48.21	1.17	-31.2	18.18	Quasi Max	V	122	204	39.5	-21.32	Pass
72.72	46.91	1.27	-31.24	16.94	Quasi Max	V	115	264	39.5	-22.56	Pass
99.78	47.06	1.57	-29.49	19.13	Quasi Max	V	103	133	43	-23.87	Pass
109.93	43.37	1.54	-27.3	17.61	Quasi Max	V	108	225	43	-25.39	Pass

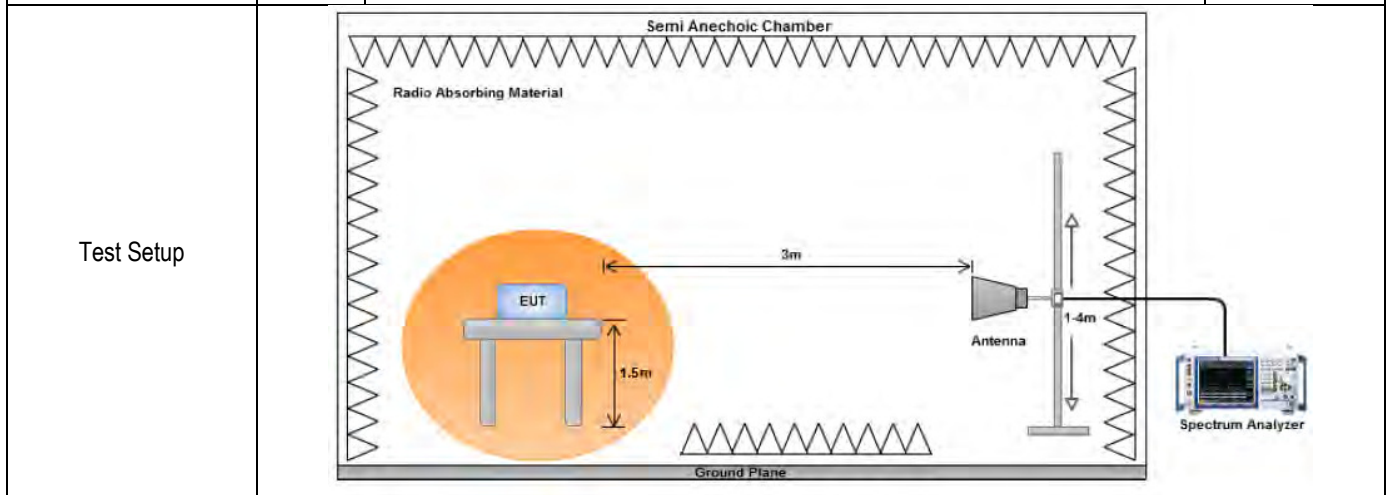
Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.



## 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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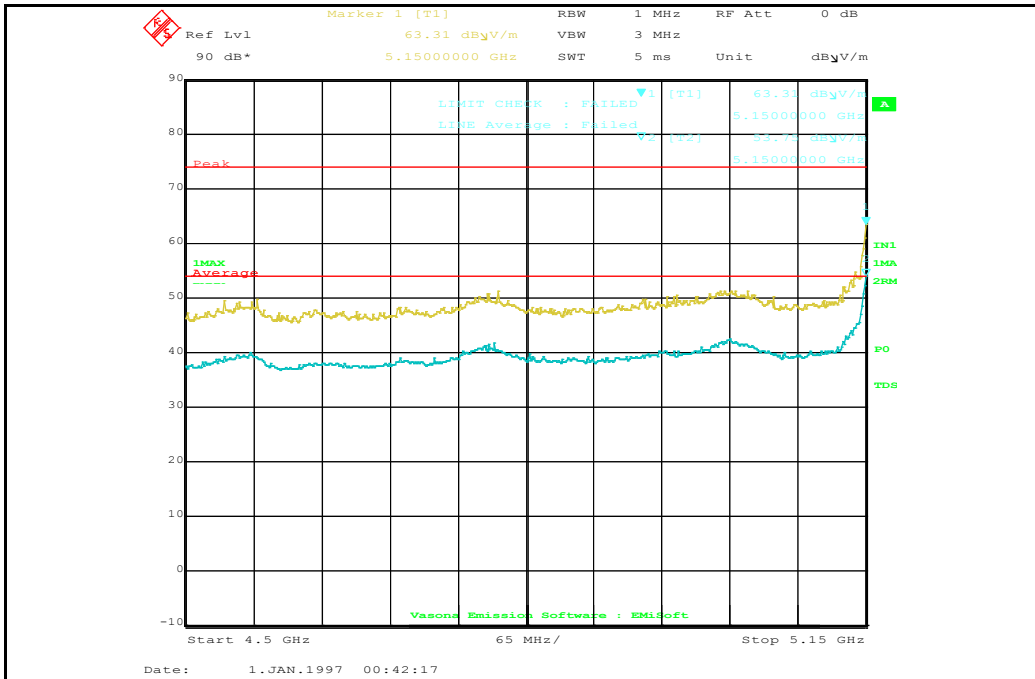
Remark	The EUT was scanned up to 40GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data     Yes (See below)       N/A

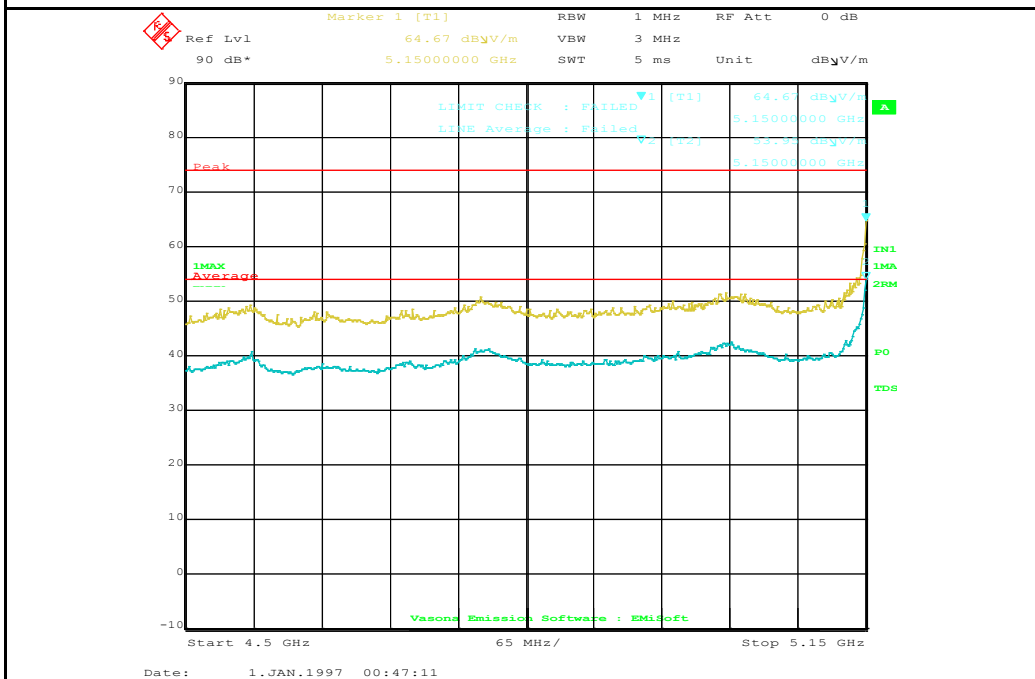
Test Plot     Yes (See below)       N/A

**Test was done by Gary Chou at 10m chamber.**

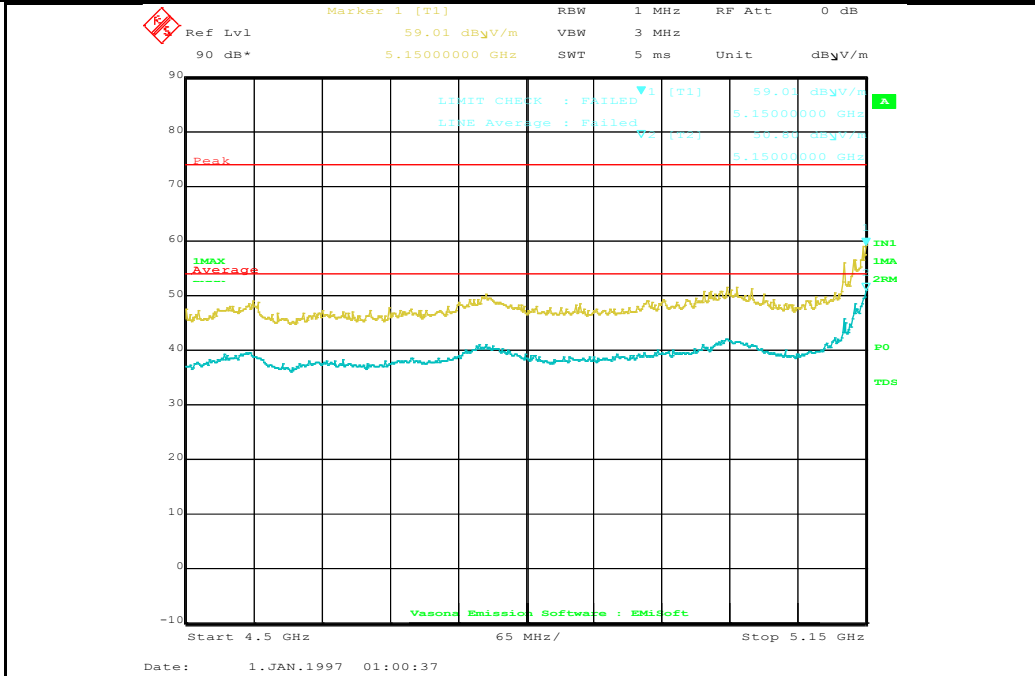
**Restricted Band Measurement Plots:**



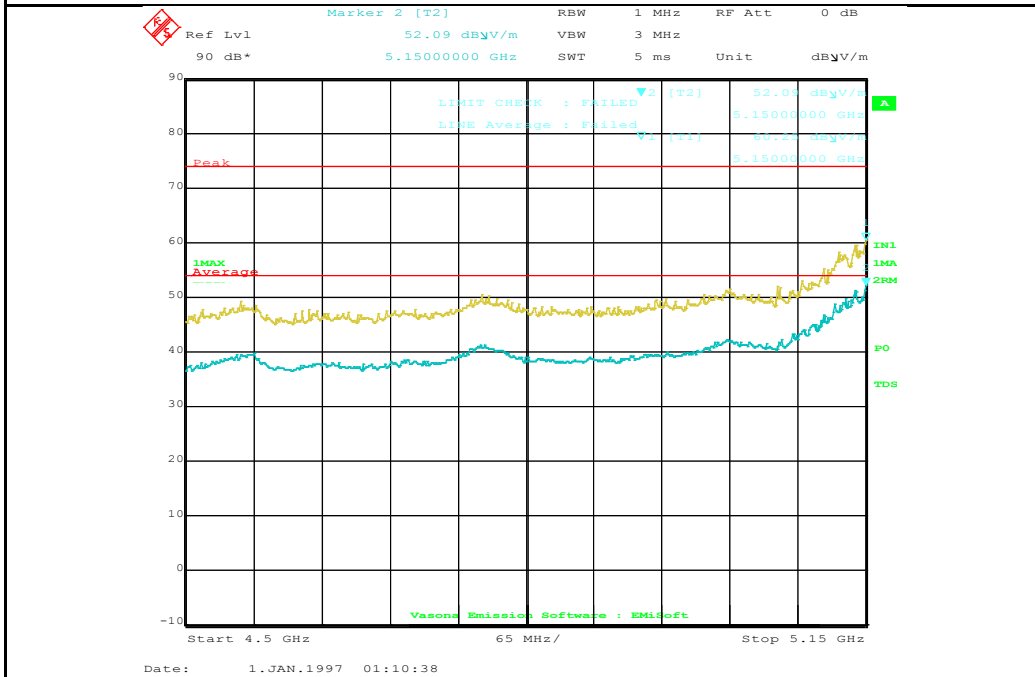
**802.11a-5180MHz**



**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
1877.97	45.58	3.14	-12.44	36.28	Peak Max	V	195	309	74	-37.72	Pass
3549.68	43.28	4.31	-7.2	40.39	Peak Max	V	109	3	74	-33.61	Pass
10359.46	39.87	7.24	0.17	47.28	Peak Max	V	181	13	74	-26.72	Pass
1877.97	33.48	3.14	-12.44	24.19	Average Max	V	195	309	54	-29.81	Pass
3549.68	31.22	4.31	-7.2	28.33	Average Max	V	109	3	54	-25.68	Pass
10359.46	28.16	7.24	0.17	35.56	Average Max	V	181	13	54	-18.44	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
1873.06	45.55	3.14	-12.47	36.22	Peak Max	V	122	109	74	-37.78	Pass
3551.56	43.74	4.31	-7.2	40.86	Peak Max	V	196	55	74	-33.15	Pass
10400.74	40.03	7.24	0.14	47.4	Peak Max	V	133	243	74	-26.6	Pass
1873.06	33.27	3.14	-12.47	23.93	Average Max	V	122	109	54	-30.07	Pass
3551.56	31.9	4.31	-7.2	29.02	Average Max	V	196	55	54	-24.98	Pass
10400.74	28.29	7.24	0.14	35.67	Average Max	V	133	243	54	-18.33	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
1873.74	45.12	3.14	-12.46	35.79	Peak Max	V	129	327	74	-38.21	Pass
3551.99	42.93	4.31	-7.19	40.05	Peak Max	V	179	245	74	-33.96	Pass
10481.32	41.8	7.23	0.33	49.37	Peak Max	V	199	75	74	-24.63	Pass
1873.74	33.27	3.14	-12.46	23.94	Average Max	V	129	327	54	-30.06	Pass
3551.99	31.69	4.31	-7.19	28.8	Average Max	V	179	245	54	-25.2	Pass
10481.32	28.52	7.23	0.33	36.09	Average Max	V	199	75	54	-17.91	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
1918.23	44.16	3.18	-12.19	35.15	Peak Max	V	115	213	74	-38.85	Pass
3533.48	43.76	4.3	-7.25	40.8	Peak Max	V	172	271	74	-33.2	Pass
10358.98	39.99	7.24	0.17	47.4	Peak Max	V	150	336	74	-26.6	Pass
1918.23	33	3.18	-12.19	24	Average Max	V	115	213	54	-30.01	Pass
3533.48	31.88	4.3	-7.25	28.92	Average Max	V	172	271	54	-25.08	Pass
10358.98	28.23	7.24	0.17	35.63	Average Max	V	150	336	54	-18.37	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
1907.64	45.42	3.17	-12.24	36.35	Peak Max	V	148	104	74	-37.65	Pass
3520.232	43.71	4.29	-7.3	40.7	Peak Max	V	171	154	74	-33.3	Pass
11820.24	41.25	7.57	1.92	50.74	Peak Max	V	135	138	74	-23.26	Pass
1907.64	33.47	3.17	-12.24	24.4	Average Max	V	148	104	54	-29.6	Pass
3520.232	31.58	4.29	-7.3	28.57	Average Max	V	171	154	54	-25.43	Pass
11820.24	28.2	7.57	1.92	37.69	Average Max	V	135	138	54	-16.31	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
1896.32	44.83	3.16	-12.31	35.68	Peak Max	V	100	284	74	-38.32	Pass
3542.87	43.68	4.31	-7.22	40.76	Peak Max	V	100	244	74	-33.24	Pass
10479.21	40	7.23	0.33	47.56	Peak Max	V	116	217	74	-26.44	Pass
1896.32	33.56	3.16	-12.31	24.41	Average Max	V	100	284	54	-29.59	Pass
3542.87	31.8	4.31	-7.22	28.89	Average Max	V	100	244	54	-25.12	Pass
10479.21	28.22	7.23	0.33	35.78	Average Max	V	116	217	54	-18.22	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
1910.82	45.64	3.18	-12.23	36.59	Peak Max	V	175	199	74	-37.41	Pass
3590.28	43.65	4.34	-7.07	40.92	Peak Max	V	192	326	74	-33.08	Pass
10380.14	39.68	7.24	0.15	47.07	Peak Max	V	161	3	74	-26.94	Pass
1910.82	33.55	3.18	-12.23	24.51	Average Max	V	175	199	54	-29.5	Pass
3590.28	31.8	4.34	-7.07	29.07	Average Max	V	192	326	54	-24.93	Pass
10380.14	28.36	7.24	0.15	35.75	Average Max	V	161	3	54	-18.26	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
1911.71	44.99	3.18	-12.22	35.95	Peak Max	V	99	163	74	-38.05	Pass
3560.23	44.77	4.32	-7.17	41.92	Peak Max	V	176	159	74	-32.08	Pass
10461.64	40.7	7.24	0.29	48.22	Peak Max	V	119	60	74	-25.78	Pass
1911.71	33.32	3.18	-12.22	24.27	Average Max	V	99	163	54	-29.73	Pass
3560.23	31.94	4.32	-7.17	29.09	Average Max	V	176	159	54	-24.91	Pass
10461.64	28.09	7.24	0.29	35.61	Average Max	V	119	60	54	-18.39	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
1899.78	44.75	3.16	-12.28	35.63	Peak Max	V	101	44	74	-38.37	Pass
3580.73	43	4.34	-7.1	40.23	Peak Max	V	166	282	74	-33.77	Pass
10422.11	40.24	7.24	0.19	47.67	Peak Max	V	152	162	74	-26.33	Pass
1899.78	33.45	3.16	-12.28	24.33	Average Max	V	101	44	54	-29.67	Pass
3580.73	31.71	4.34	-7.1	28.94	Average Max	V	166	282	54	-25.06	Pass
10422.11	28.37	7.24	0.19	35.8	Average Max	V	152	162	54	-18.2	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
1869.92	45.17	3.13	-12.49	35.81	Peak Max	V	137	132	74	-38.19	Pass
3552.99	43.67	4.31	-7.19	40.79	Peak Max	V	126	326	74	-33.21	Pass
11488.61	41.24	7.61	1.86	50.71	Peak Max	V	171	290	74	-23.29	Pass
1869.92	33.18	3.13	-12.49	23.82	Average Max	V	137	132	54	-30.18	Pass
3552.99	31.62	4.31	-7.19	28.74	Average Max	V	126	326	54	-25.26	Pass
11488.61	28.86	7.61	1.86	38.34	Average Max	V	171	290	54	-15.67	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
1907.64	45.25	3.17	-12.24	36.18	Peak Max	V	148	104	74	-37.82	Pass
3520.22	43.37	4.29	-7.3	40.36	Peak Max	V	171	154	74	-33.64	Pass
11500.31	41.19	7.57	1.92	50.68	Peak Max	V	135	138	74	-23.32	Pass
1907.64	33.52	3.17	-12.24	24.45	Average Max	V	148	104	54	-29.55	Pass
3520.22	31.81	4.29	-7.3	28.8	Average Max	V	171	154	54	-25.2	Pass
11500.31	28.33	7.57	1.92	37.82	Average Max	V	135	138	54	-16.18	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
1915.66	45.09	3.18	-12.2	36.07	Peak Max	V	175	356	74	-37.93	Pass
3551.22	44.08	4.31	-7.2	41.19	Peak Max	V	198	296	74	-32.81	Pass
11650.66	39.22	7.52	1.88	48.62	Peak Max	V	110	126	74	-25.39	Pass
1915.66	33.17	3.18	-12.2	24.15	Average Max	V	175	356	54	-29.85	Pass
3551.22	31.92	4.31	-7.2	29.03	Average Max	V	198	296	54	-24.97	Pass
11650.66	27.79	7.52	1.88	37.18	Average Max	V	110	126	54	-16.82	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
1910.92	45.78	3.18	-12.23	36.73	Peak Max	V	180	145	74	-37.27	Pass
3572.55	43.03	4.33	-7.13	40.23	Peak Max	V	184	4	74	-33.77	Pass
11492.59	40.59	7.6	1.84	50.04	Peak Max	V	151	295	74	-23.96	Pass
1910.92	33.48	3.18	-12.23	24.43	Average Max	V	180	145	54	-29.57	Pass
3572.55	31.61	4.33	-7.13	28.81	Average Max	V	184	4	54	-25.19	Pass
11492.59	28.86	7.6	1.84	38.31	Average Max	V	151	295	54	-15.69	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
1912.15	45.24	3.18	-12.22	36.2	Peak Max	V	179	90	74	-37.8	Pass
3574.45	43.52	4.33	-7.12	40.73	Peak Max	V	106	205	74	-33.27	Pass
11572.00	39.67	7.56	1.98	49.21	Peak Max	V	102	255	74	-24.79	Pass
1912.15	33.49	3.18	-12.22	24.45	Average Max	V	179	90	54	-29.55	Pass
3574.45	31.28	4.33	-7.12	28.49	Average Max	V	106	205	54	-25.51	Pass
11572.00	28.52	7.56	1.98	38.06	Average Max	V	102	255	54	-15.94	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
1908.91	45.31	3.17	-12.24	36.25	Peak Max	V	187	356	74	-37.75	Pass
3574.04	44.31	4.33	-7.13	41.51	Peak Max	V	131	46	74	-32.49	Pass
11651.20	40.13	7.52	1.88	49.52	Peak Max	V	135	233	74	-24.48	Pass
1908.91	33.55	3.17	-12.24	24.49	Average Max	V	187	356	54	-29.51	Pass
3574.04	30.76	4.33	-7.13	27.97	Average Max	V	131	46	54	-26.03	Pass
11651.20	28	7.52	1.88	37.39	Average Max	V	135	233	54	-16.61	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
1888.63	45.84	3.15	-12.36	36.64	Peak Max	V	101	43	74	-37.37	Pass
3558.85	43.41	4.32	-7.17	40.56	Peak Max	V	173	47	74	-33.44	Pass
11508.79	40.45	7.59	1.82	49.87	Peak Max	V	162	291	74	-24.13	Pass
1888.63	33.51	3.15	-12.36	24.31	Average Max	V	101	43	54	-29.69	Pass
3558.85	31.83	4.32	-7.17	28.98	Average Max	V	173	47	54	-25.02	Pass
11508.79	28.81	7.59	1.82	38.23	Average Max	V	162	291	54	-15.77	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
1889.65	46.56	3.15	-12.35	37.36	Peak Max	V	144	141	74	-36.64	Pass
3582.64	43.53	4.34	-7.1	40.77	Peak Max	V	188	59	74	-33.23	Pass
11588.61	39.9	7.55	2.02	49.47	Peak Max	V	128	199	74	-24.53	Pass
1889.65	33.72	3.15	-12.35	24.52	Average Max	V	144	141	54	-29.48	Pass
3582.64	31.72	4.34	-7.1	28.96	Average Max	V	188	59	54	-25.04	Pass
11588.61	28.21	7.55	2.02	37.78	Average Max	V	128	199	54	-16.22	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
1907.65	45.73	3.17	-12.24	36.66	Peak Max	V	148	104	74	-37.34	Pass
3520.20	43.29	4.29	-7.3	40.28	Peak Max	V	171	154	74	-33.72	Pass
11549.43	41.1	7.57	1.92	50.59	Peak Max	V	135	138	74	-23.41	Pass
1907.65	33.53	3.17	-12.24	24.46	Average Max	V	148	104	54	-29.54	Pass
3520.20	31.95	4.29	-7.3	28.94	Average Max	V	171	154	54	-25.06	Pass
11549.43	28.72	7.57	1.92	38.21	Average Max	V	135	138	54	-15.79	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	06/08/2016	1 Year	06/08/2017	<input checked="" type="checkbox"/>
CHASE LISN	MN2050B	1018	08/07/2016	1 Year	08/07/2017	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>						
R & S Receiver	ESIB 40	1018	08/07/2016	1 Year	08/07/2017	<input checked="" type="checkbox"/>
Bi-Log antenna (30MHz~2GHz)	JB1	A030702	08/12/2016	1 Year	08/12/2017	<input checked="" type="checkbox"/>
Horn Antenna (1GHz~26GHz)	3115	100059	08/25/2016	1 Year	08/25/2017	<input checked="" type="checkbox"/>
Horn Antenna (26GHz~40GHz)	AH-840	101013	08/28/2016	1 Year	08/28/2017	<input checked="" type="checkbox"/>
Pre-Amp (30MHz~40GHz)	LPA-6-30	11140711	02/10/2016	1 Year	02/10/2017	<input checked="" type="checkbox"/>
3 Meters SAC	3M	N/A	08/08/2016	1 Year	08/08/2017	<input checked="" type="checkbox"/>
10 Meters SAC	10M	N/A	09/05/2016	1 Year	09/05/2017	<input checked="" type="checkbox"/>
<b>RF Conducted Measurement</b>						
Spectrum Analyzer	N9010A	10SL0219	08/20/2016	1 Year	08/20/2017	<input checked="" type="checkbox"/>
R & S Receiver	ESIB 40	100179	06/08/2016	1 Year	06/08/2017	<input checked="" type="checkbox"/>
ETS-Lingren USB RF Power Sensor	7002-006	10SL0190	09/03/2016	1 Year	09/03/2017	<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		<a href="#">A1, A2, A3, A4, B1, B2, B3, B4, C</a>
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 &amp; Telecommunications Terminal Equipment:</b> EN45001 – EN ISO/IEC 17025
		<b>Electromagnetic Compatibility:</b> EN45001 – EN ISO/IEC 17025
Singapore iDA CB(Certification Body)	 	<a href="#">Phase I, Phase II</a>
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope
Hong Kong OFCA		<b>(Phase II)</b> OFCA Foreign Certification Body for Radio and Telecom
		<b>(Phase I)</b> 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>Radio communications:</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