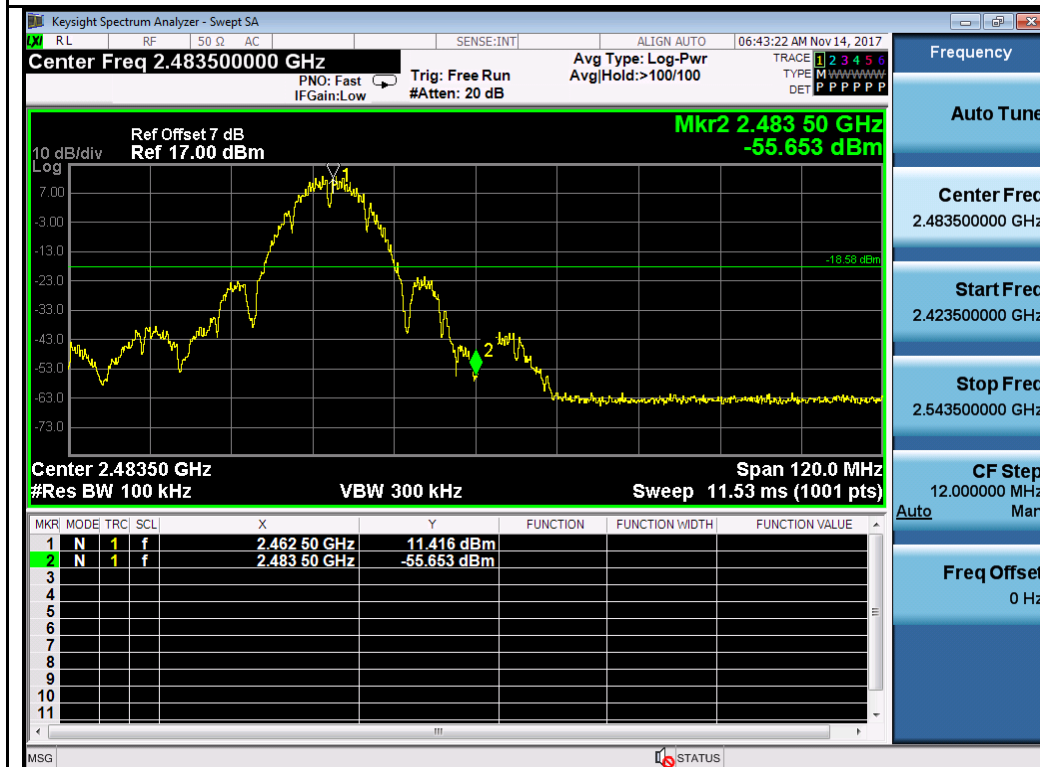
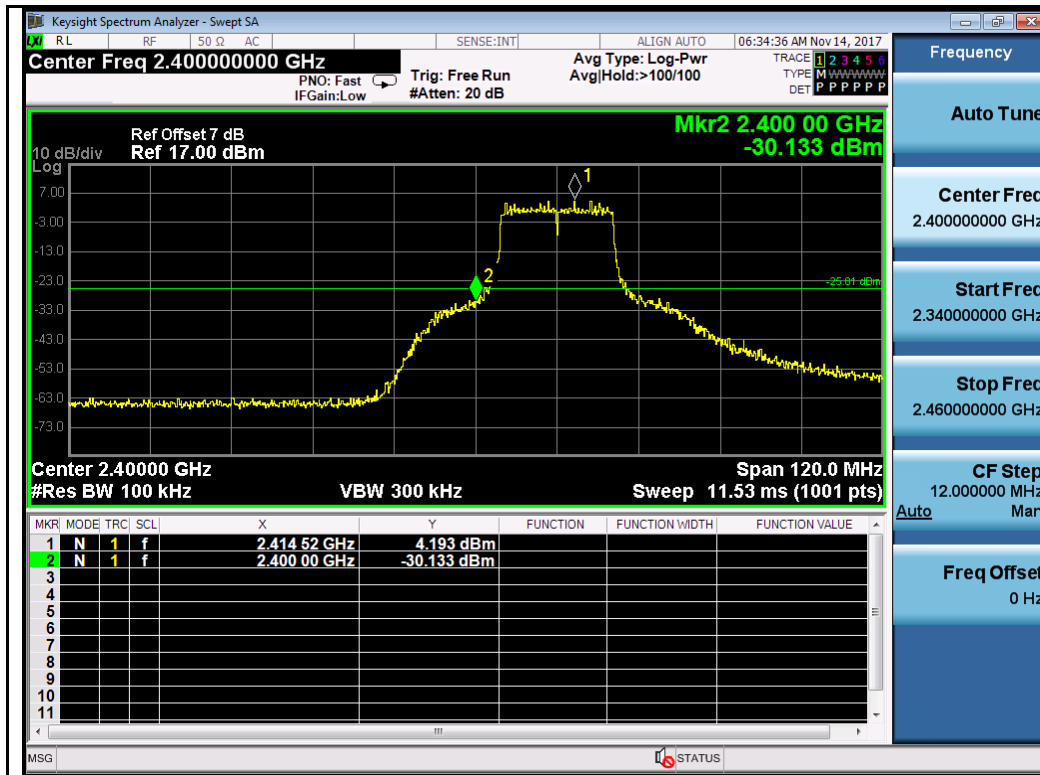




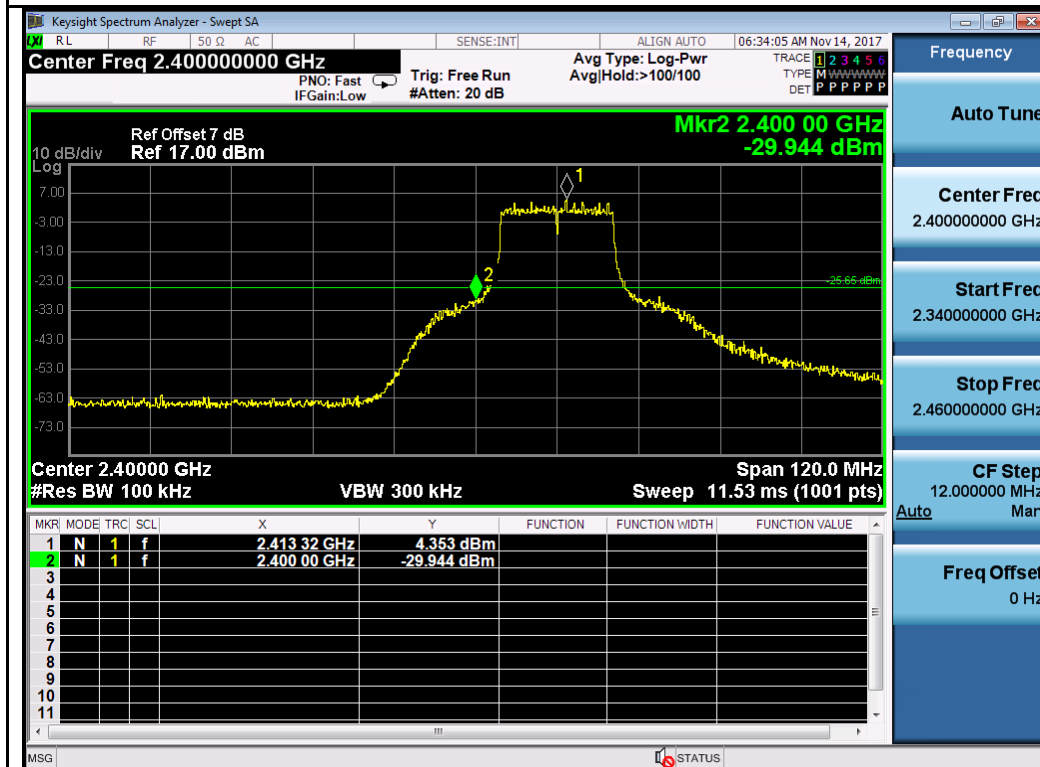
802.11b-2462MHz Chain 0



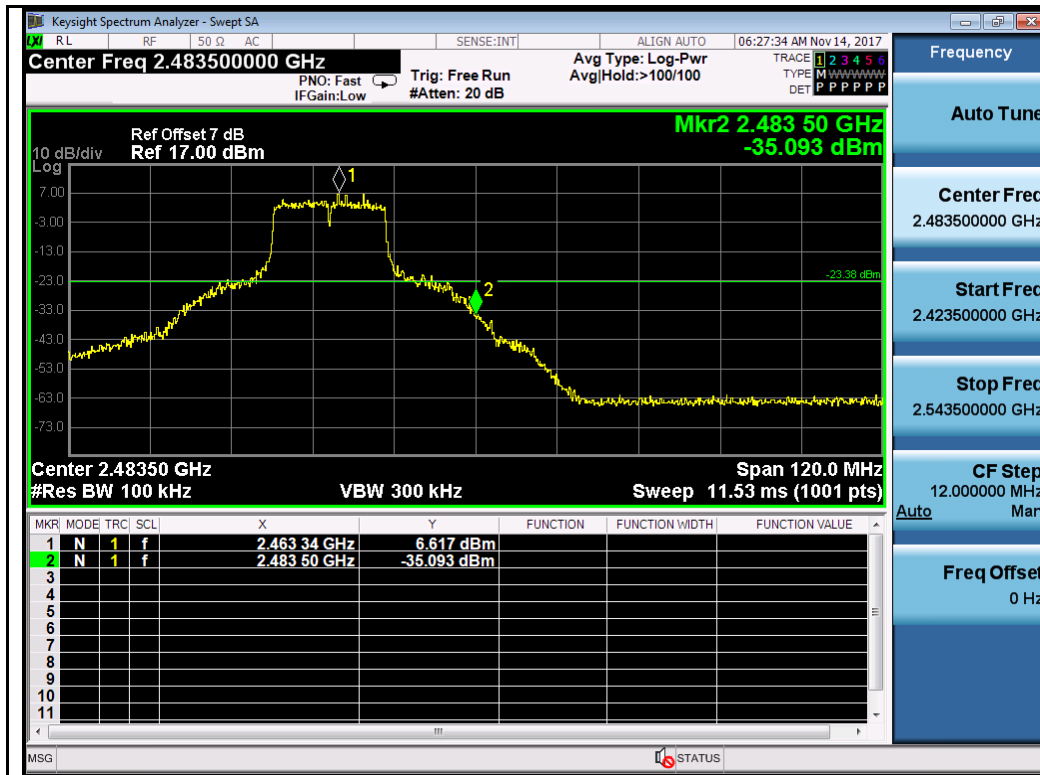
802.11b-2462MHz Chain 1



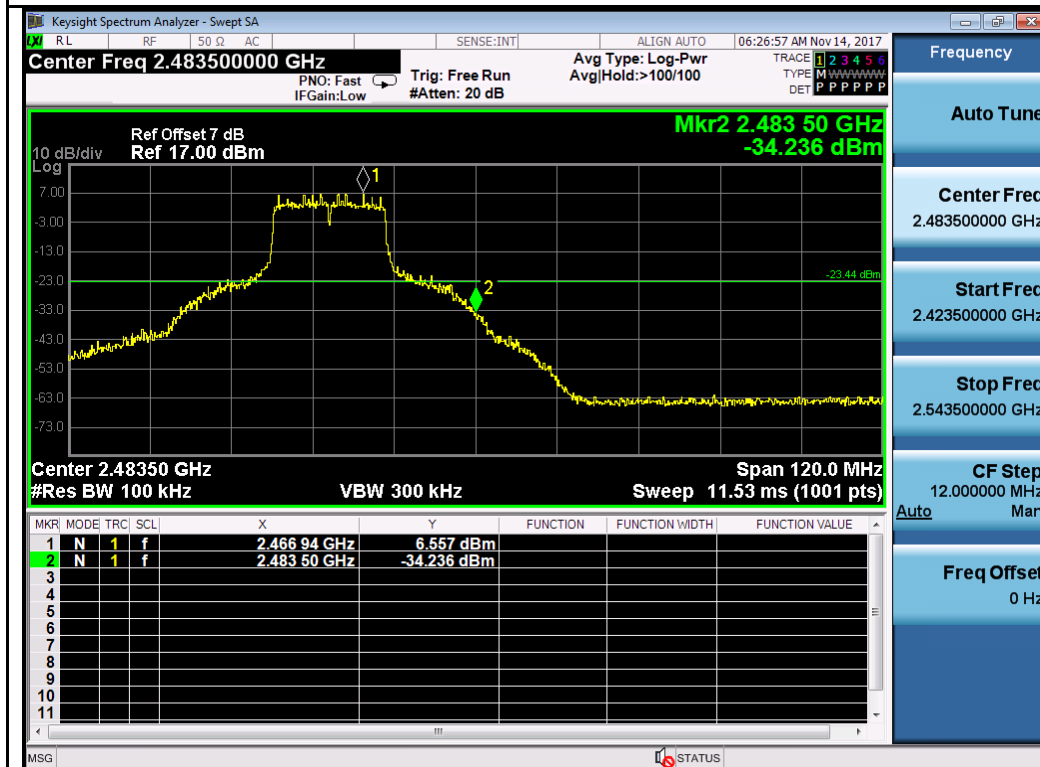
802.11g-2412MHz Chain 0



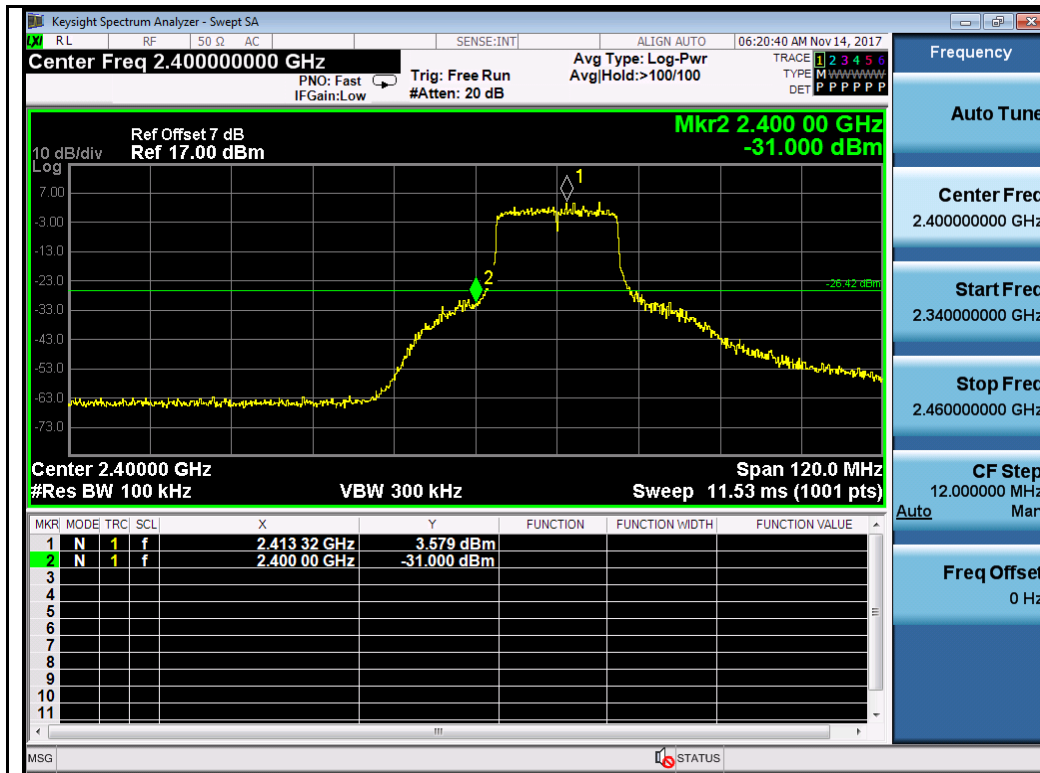
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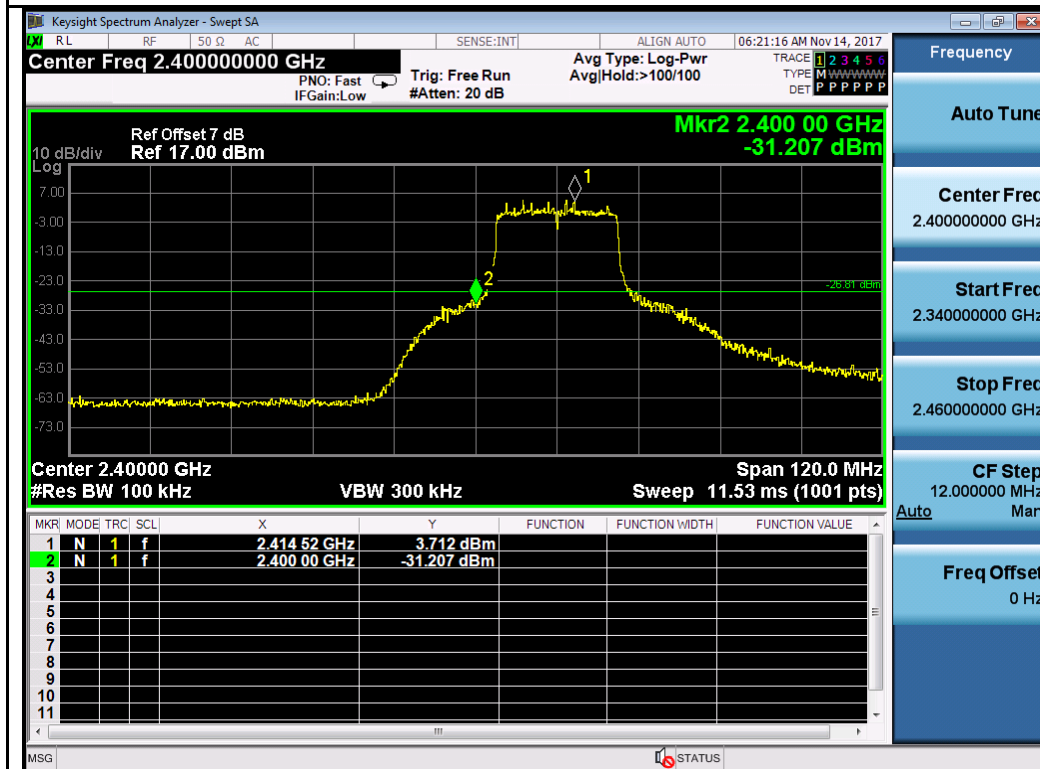
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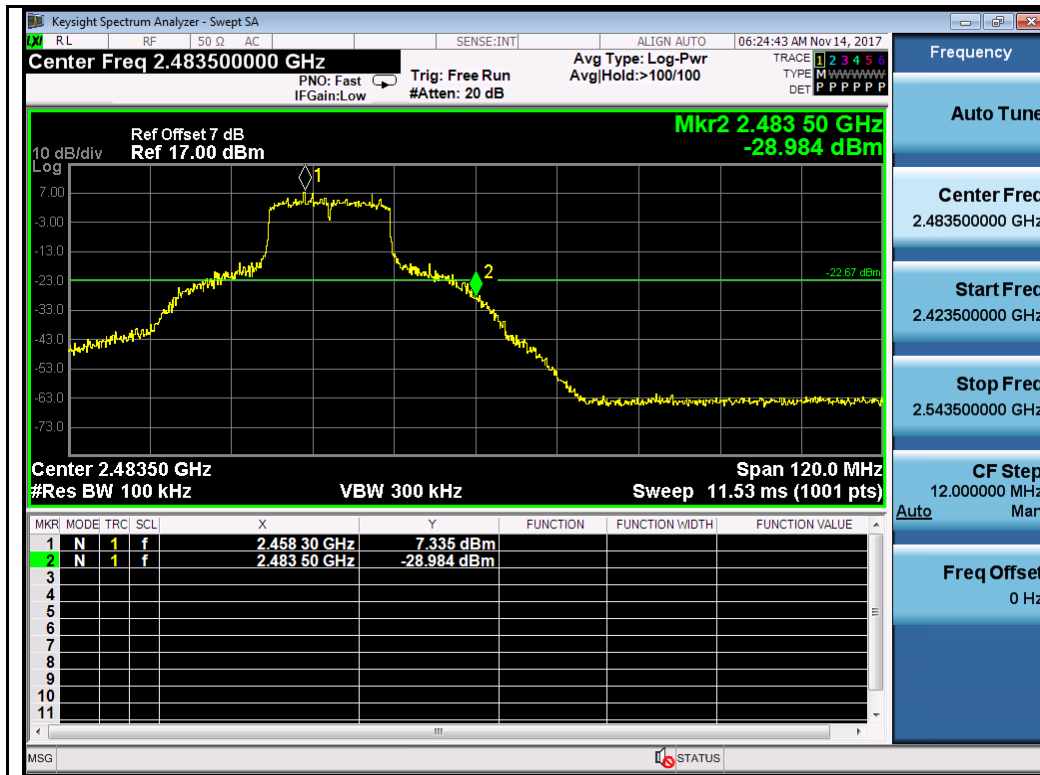
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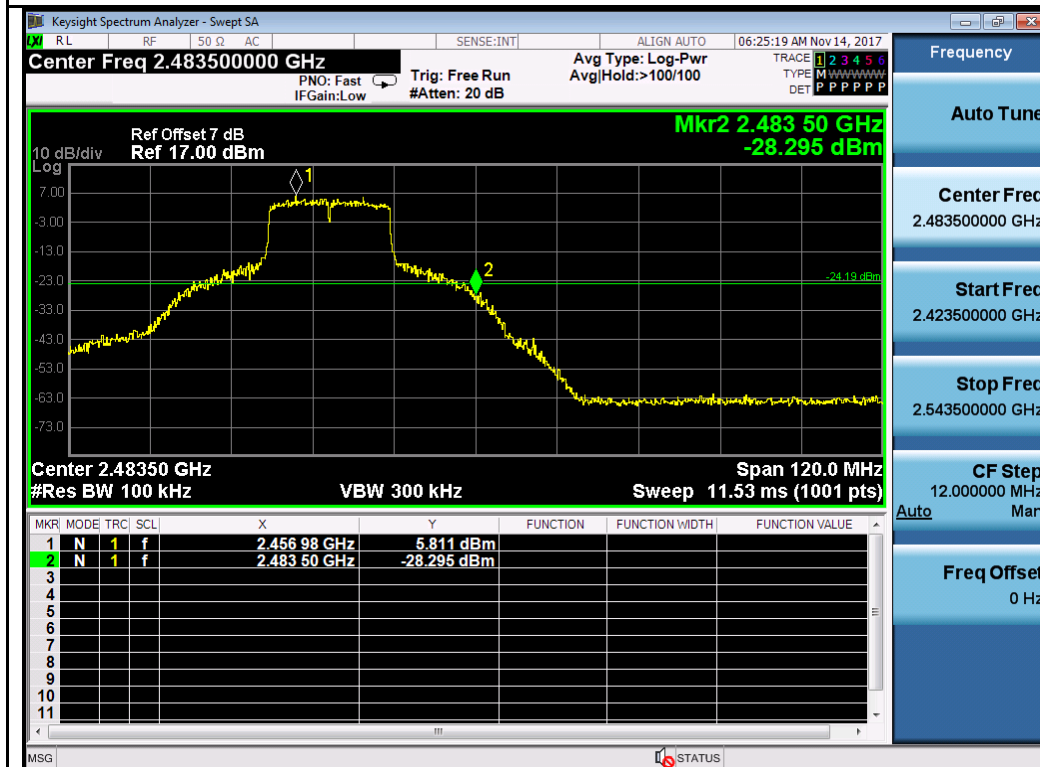
802.11n-HT20-2412MHz Chain 0



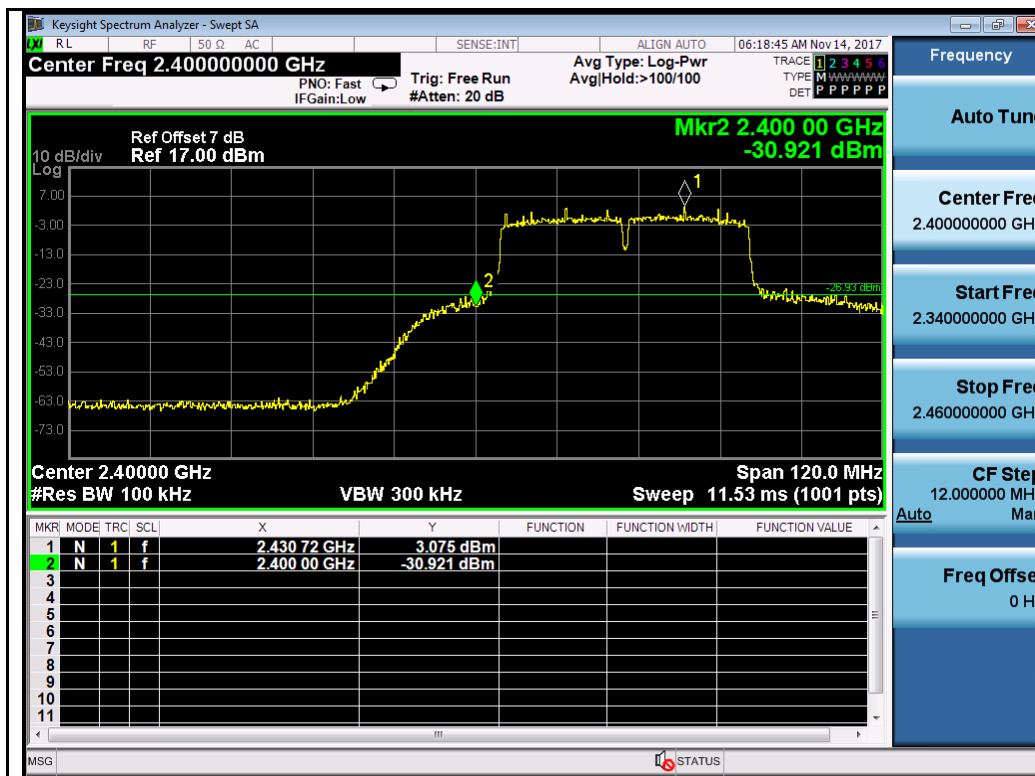
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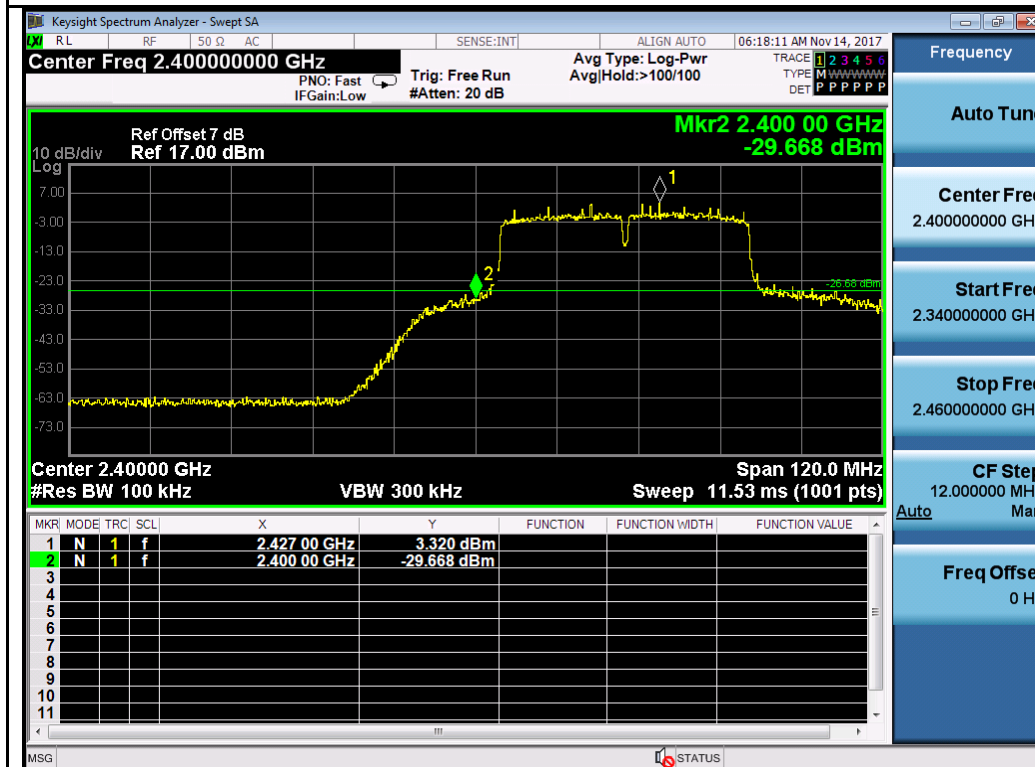
802.11n-HT20-2462MHz Chain 0



802.11n-HT20-2462MHz Chain 1



802.11n-HT40-2422MHz Chain 0



802.11n-HT40-2422MHz Chain 1



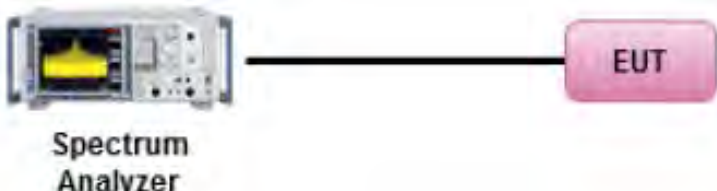
802.11n-HT40-2452MHz Chain 0



802.11n-HT40-2452MHz Chain 1

10.6 Peak Spectral Density

Requirement(s):

Spec	Item	Requirement	Applicable
§ 15.247(e) RSS247 (5.2.2)	e)	DSSS: $\leq 8\text{dBm}/3\text{KHz}$	☒
	f)	DSSS in hybrid sys with FH turned off: $\leq 8\text{dBm}/3\text{KHz}$	☐
Test Setup			
Test Procedure	558074 D01 DTS Meas Guidance v03r05, 10.2 Method PKPSD (peak PSD) <u>Peak spectral density measurement procedure</u> - Set analyzer center frequency to DTS channel center frequency. - Set the span to 1.5 times the DTS bandwidth. - Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$. - Set the VBW $\geq 3 \times \text{RBW}$. - Detector = Peak - Sweep time = auto couple. - Trace mode = Max Hold - Allow trace to fully stabilize. - Use the peak marker function to determine the maximum amplitude level within the RBW. - If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.		
Test Date	11/11/2017-11/21/2017	Environmental condition	Temperature 22°C Relative Humidity 46% Atmospheric Pressure 1020mbar
Remark	N/A		
Result	☒ Pass ☐ Fail		

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Cipher at RF test site.

PSD measurement results

T310N

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/3KHz)			Limit (dBm/3KHz)	Result
				Chain0	Chain1	Combine		
PSD	802.11b	2412	Low	-3.225	-3.483	-0.342	≤5.3	Pass
		2437	Mid	-3.381	-3.004	-0.178	≤5.3	Pass
		2462	High	-0.996	-3.049	1.108	≤5.3	Pass
	802.11g	2412	Low	-11.310	-12.139	-8.694	≤5.3	Pass
		2437	Mid	-7.645	-6.259	-3.887	≤5.3	Pass
		2462	High	-8.799	-8.953	-5.865	≤5.3	Pass
	802.11n-20M	2412	Low	-11.906	-11.413	-8.642	≤5.3	Pass
		2437	Mid	-7.991	-7.579	-4.770	≤5.3	Pass
		2462	High	-8.676	-9.236	-5.937	≤5.3	Pass
	802.11n-40M	2422	Low	-12.017	-12.445	-9.215	≤5.3	Pass
		2437	Mid	-9.188	-8.774	-5.966	≤5.3	Pass
		2452	High	-12.318	-11.791	-9.036	≤5.3	Pass
Note	Two chains are cross-polarized, the directional gain = individual antenna gain = 8.7dBi. 8.7-6 = 2.7 dB limit adjustment is needed. All the mode transmission is MIMO.							

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Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/3KHz)			Limit (dBm/3KHz)	Result
				Chain0	Chain1	Combine		
PSD	802.11b	2412	Low	-3.209	4.045	4.794	≤8	Pass
		2437	Mid	-3.558	-3.584	-0.561	≤8	Pass
		2462	High	-4.548	-4.071	-1.293	≤8	Pass
	802.11g	2412	Low	-12.459	-11.936	-9.179	≤8	Pass
		2437	Mid	-7.438	-6.813	-4.104	≤8	Pass
		2462	High	-9.576	-9.732	-6.643	≤8	Pass
	802.11n-20M	2412	Low	-11.810	-11.905	-8.847	≤8	Pass
		2437	Mid	-7.513	-6.623	-4.035	≤8	Pass
		2462	High	-8.723	-8.732	-5.717	≤8	Pass
	802.11n-40M	2422	Low	-11.460	-13.624	-9.398	≤8	Pass
		2437	Mid	-9.443	-8.561	-5.969	≤8	Pass
		2452	High	-15.159	-14.628	-11.875	≤8	Pass
Note	Highest Two antennas are cross polarized, the directional gain = individual antenna gain = 6dBi. No limit adjustment is needed. All the mode transmission is MIMO.							

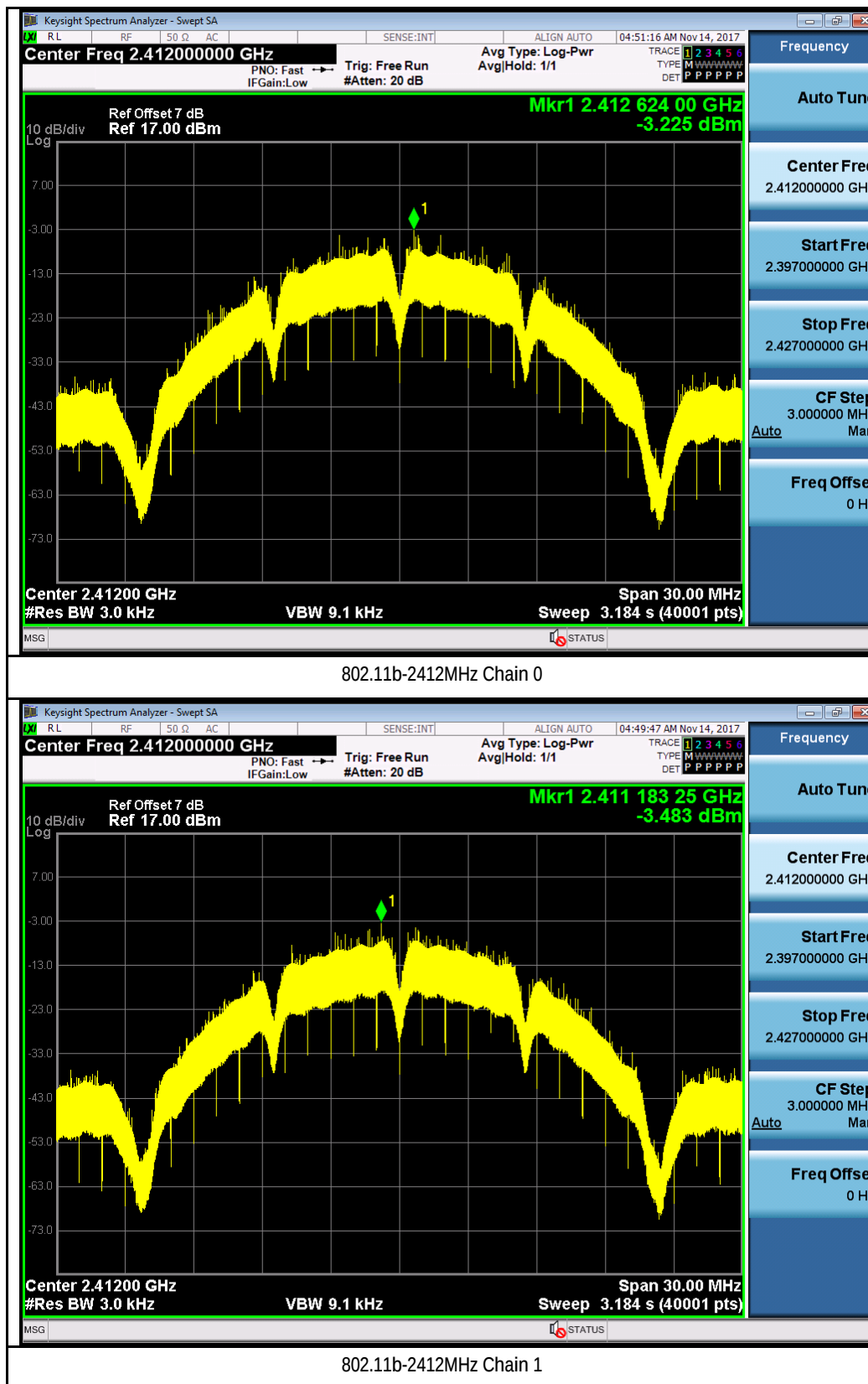
Beamforming

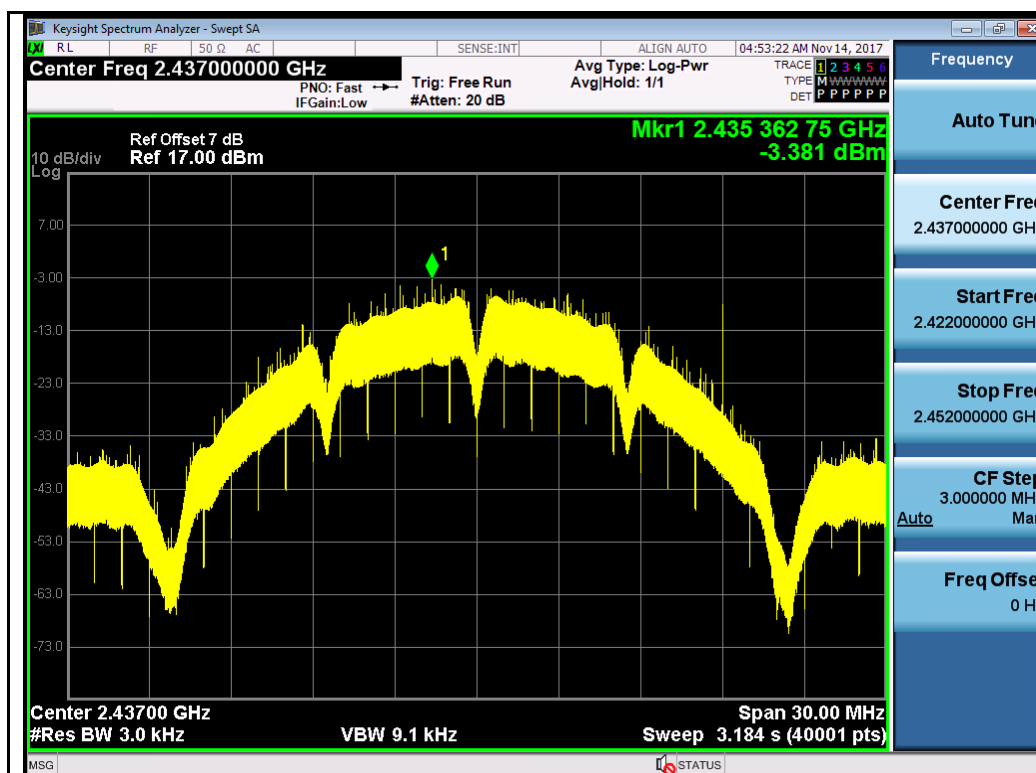
T310S

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/3KHz)			Limit (dBm/3KHz)	Result
				Chain0	Chain1	Combine		
PSD	802.11b	2412	Low	-3.209	4.045	4.794	≤5	Pass
		2437	Mid	-3.558	-3.584	-0.561	≤5	Pass
		2462	High	-4.548	-4.071	-1.293	≤5	Pass
	802.11g	2412	Low	-12.459	-11.936	-9.179	≤5	Pass
		2437	Mid	-7.438	-6.813	-4.104	≤5	Pass
		2462	High	-9.576	-9.732	-6.643	≤5	Pass
	802.11n-20M	2412	Low	-11.810	-11.905	-8.847	≤5	Pass
		2437	Mid	-7.513	-6.623	-4.035	≤5	Pass
		2462	High	-8.723	-8.732	-5.717	≤5	Pass
	802.11n-40M	2422	Low	-11.460	-13.624	-9.398	≤5	Pass
		2437	Mid	-9.443	-8.561	-5.969	≤5	Pass
		2452	High	-15.159	-14.628	-11.875	≤5	Pass
Note	Array gain is $10 \log_{10}(N_{ANT})=3\text{dB}$, $N_{ANT} = 2$, highest individual gain is 6dBi, so max directional gain of the EUT is 9dBi. 9-6 = 3 dB limit adjustment is needed. All the mode transmission is MIMO.							

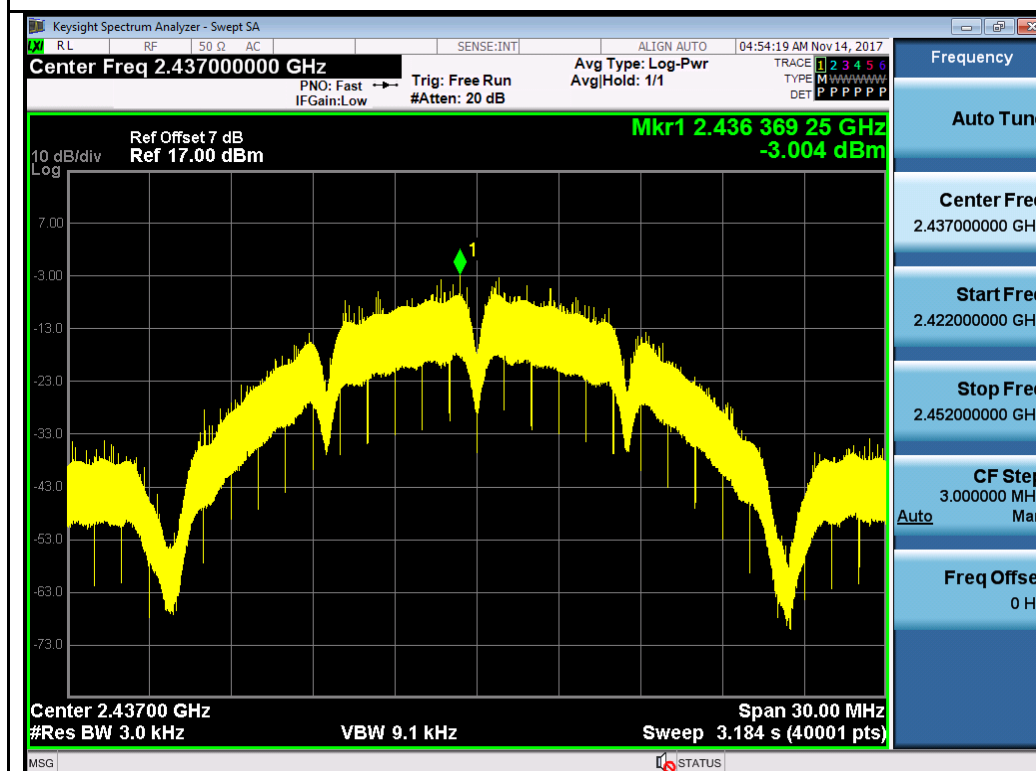
Test Plots:

T310N

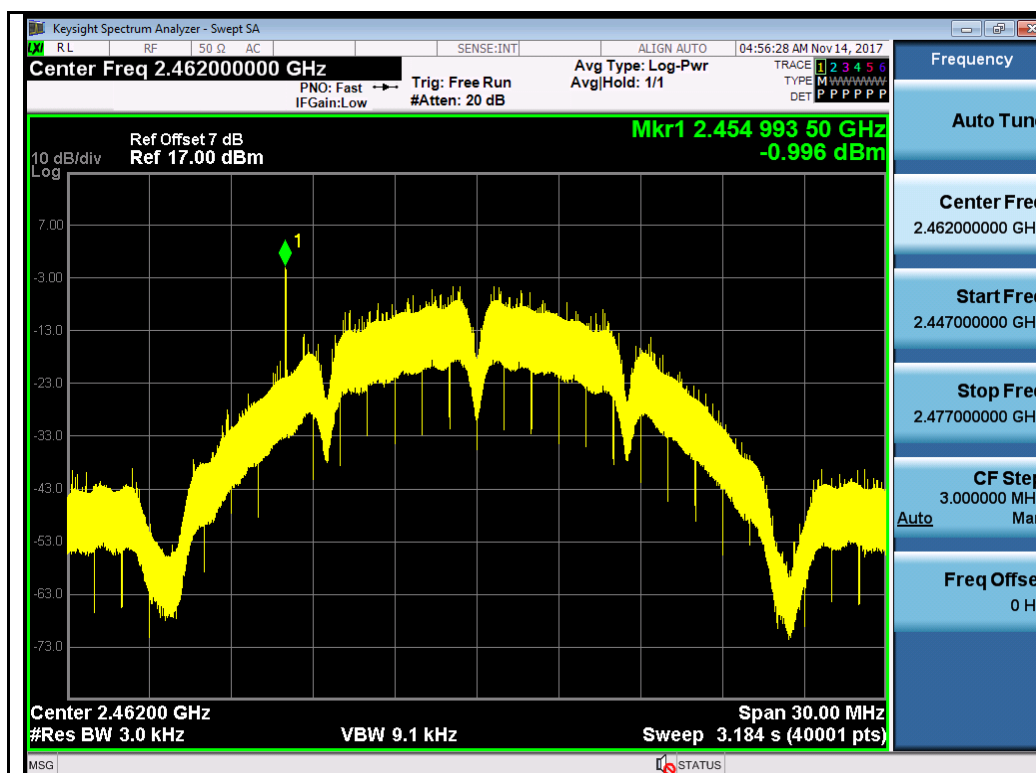




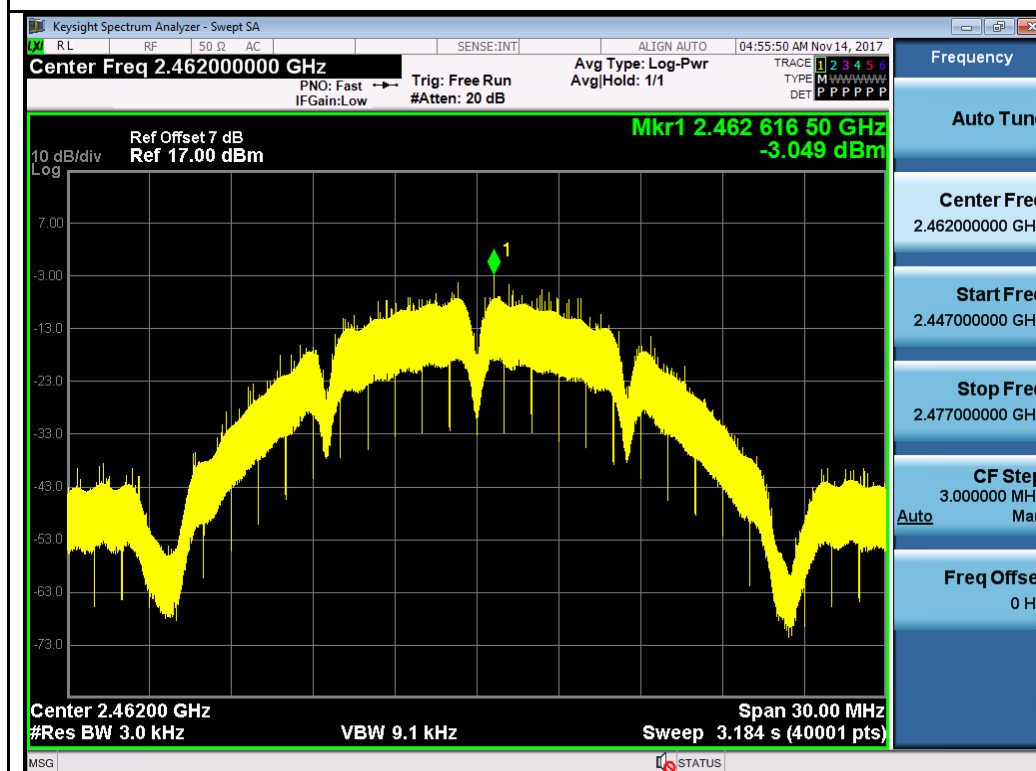
802.11b-2437MHz Chain 0



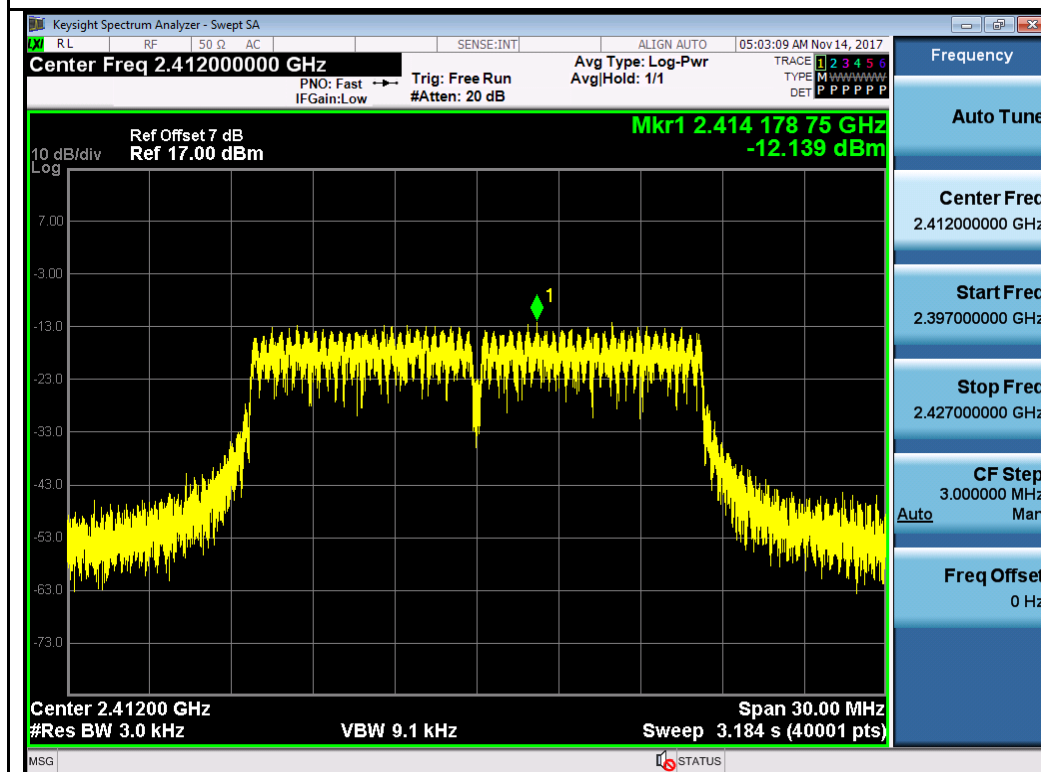
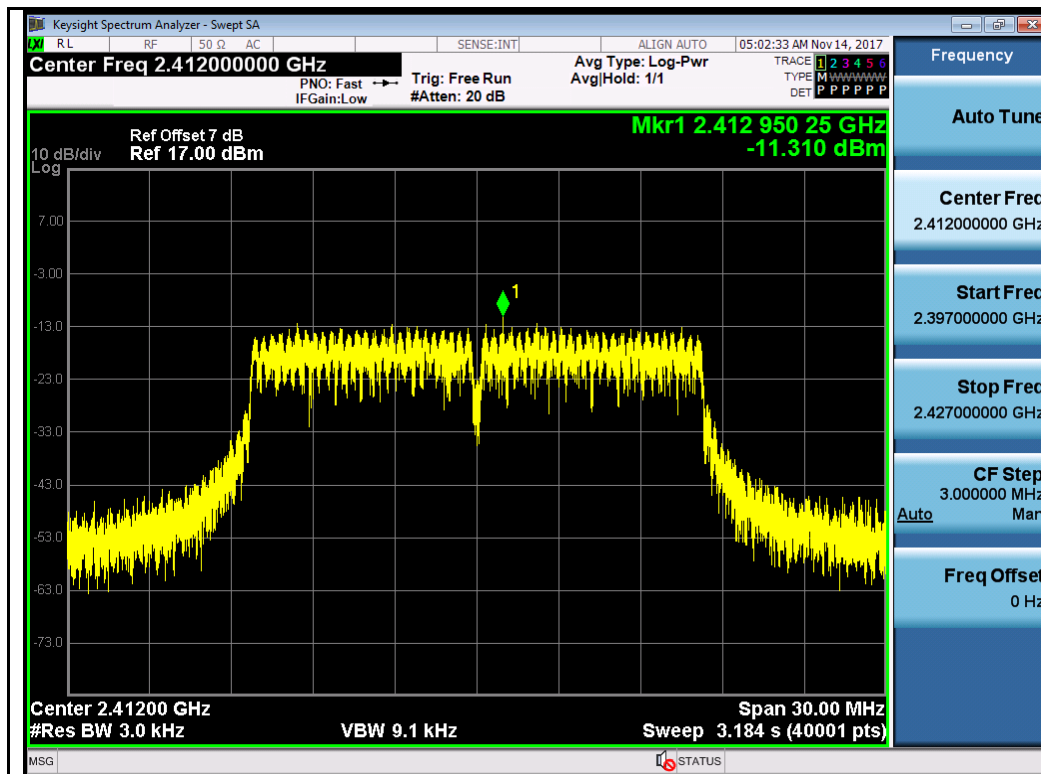
802.11b-2437MHz Chain 1

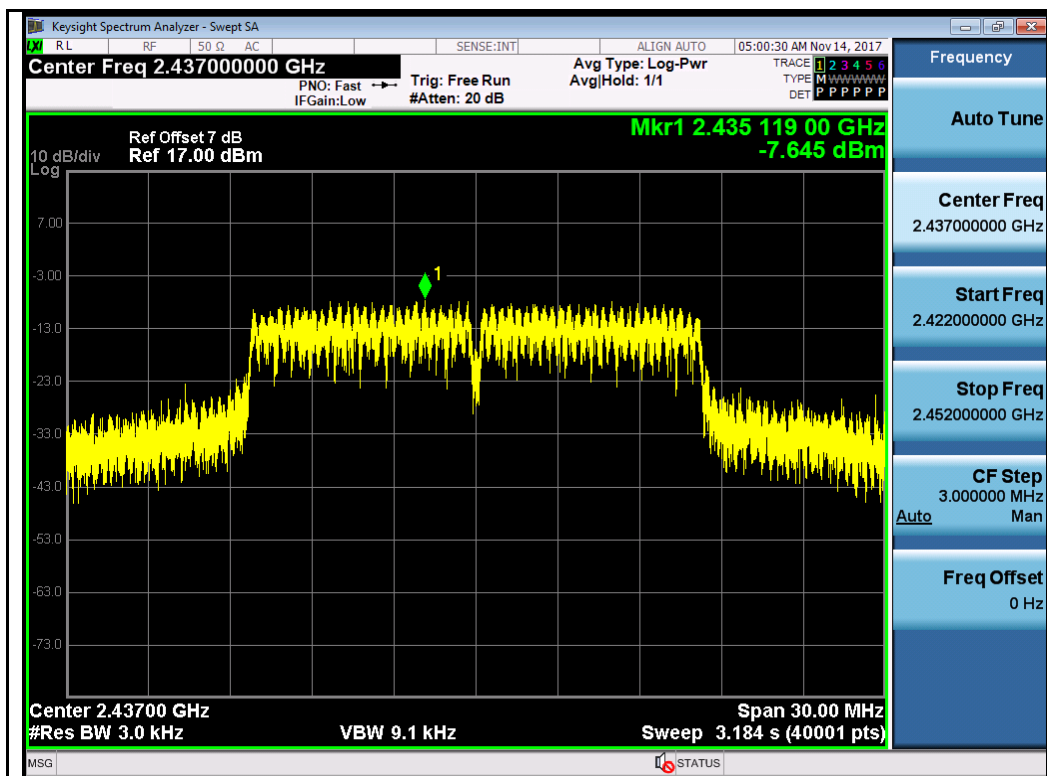


802.11b-2462MHz Chain 0

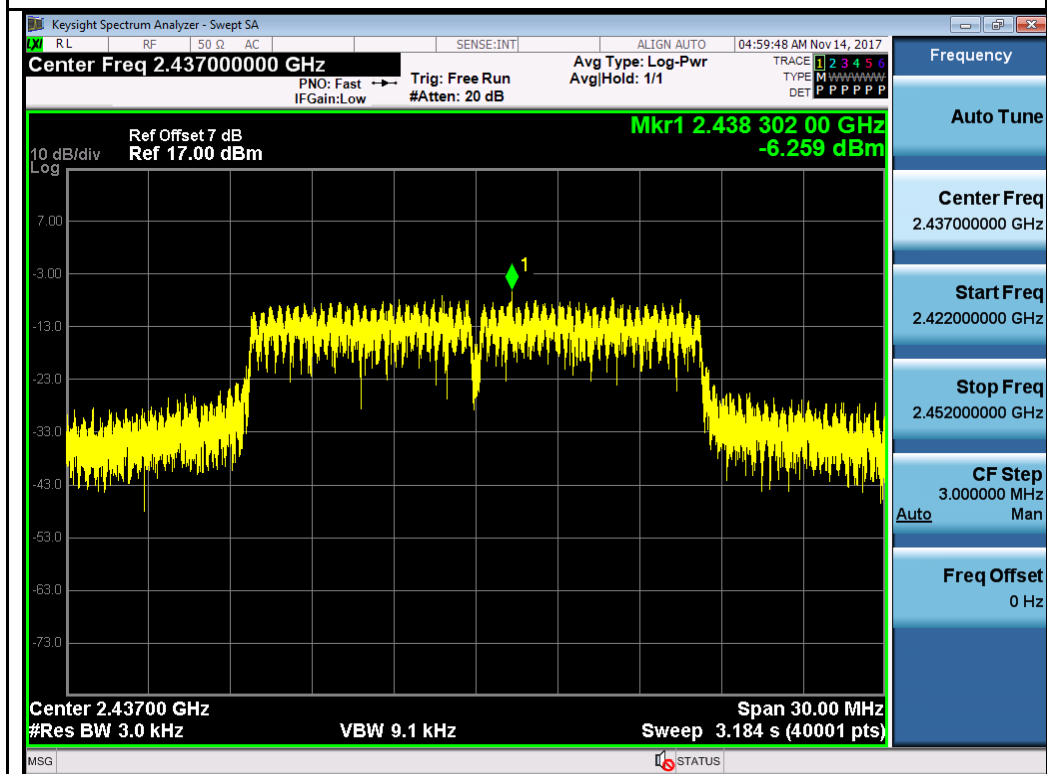


802.11b-2462MHz Chain 1

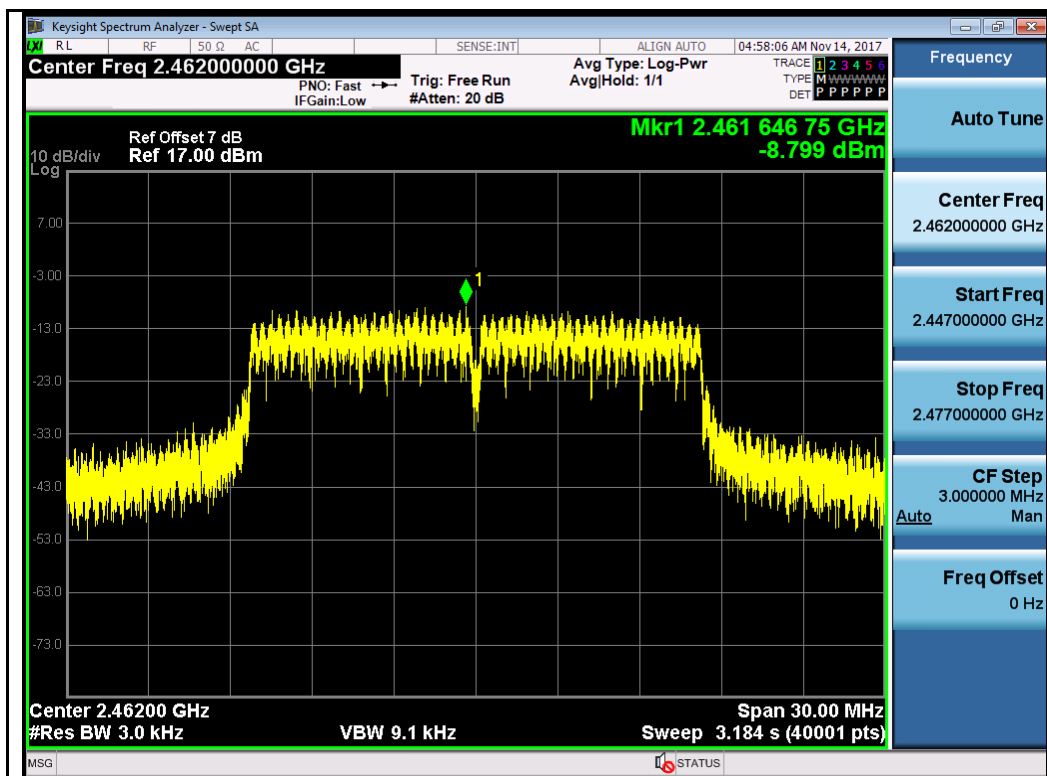




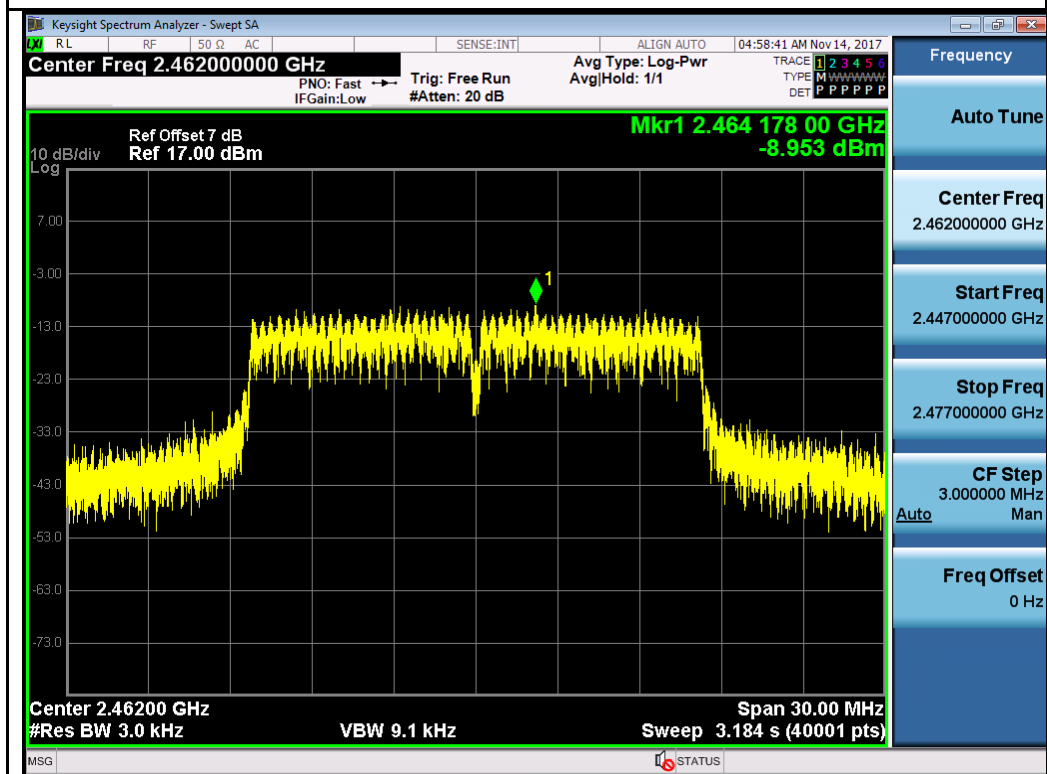
802.11g-2437MHz Chain 0



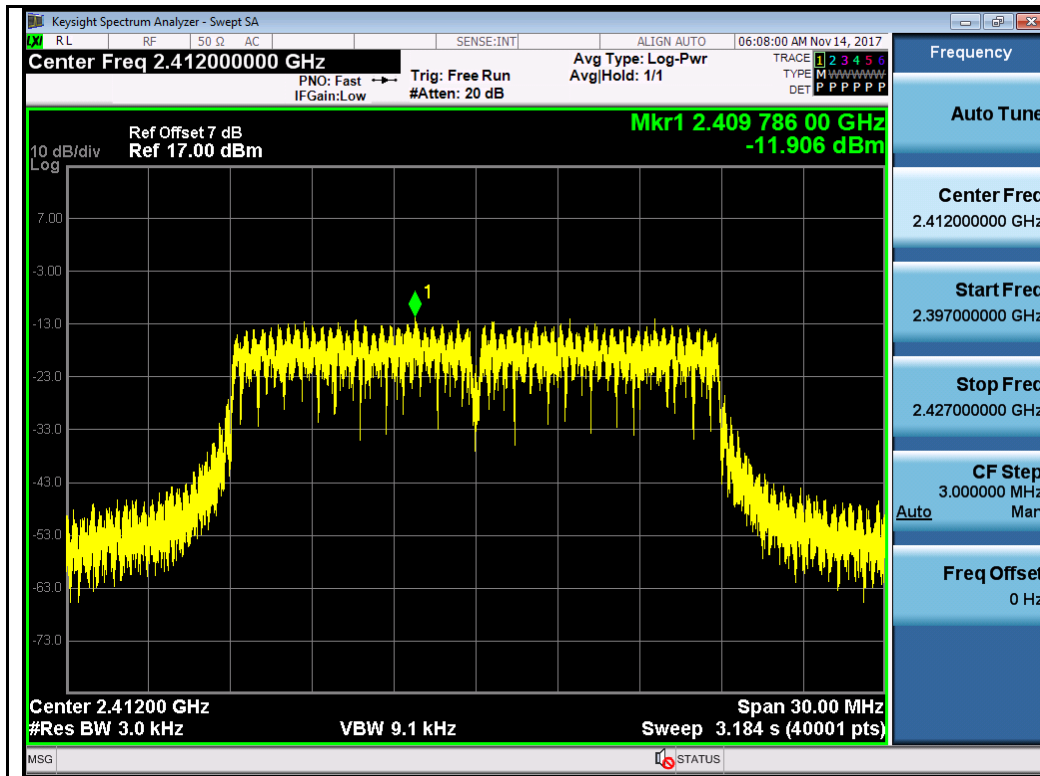
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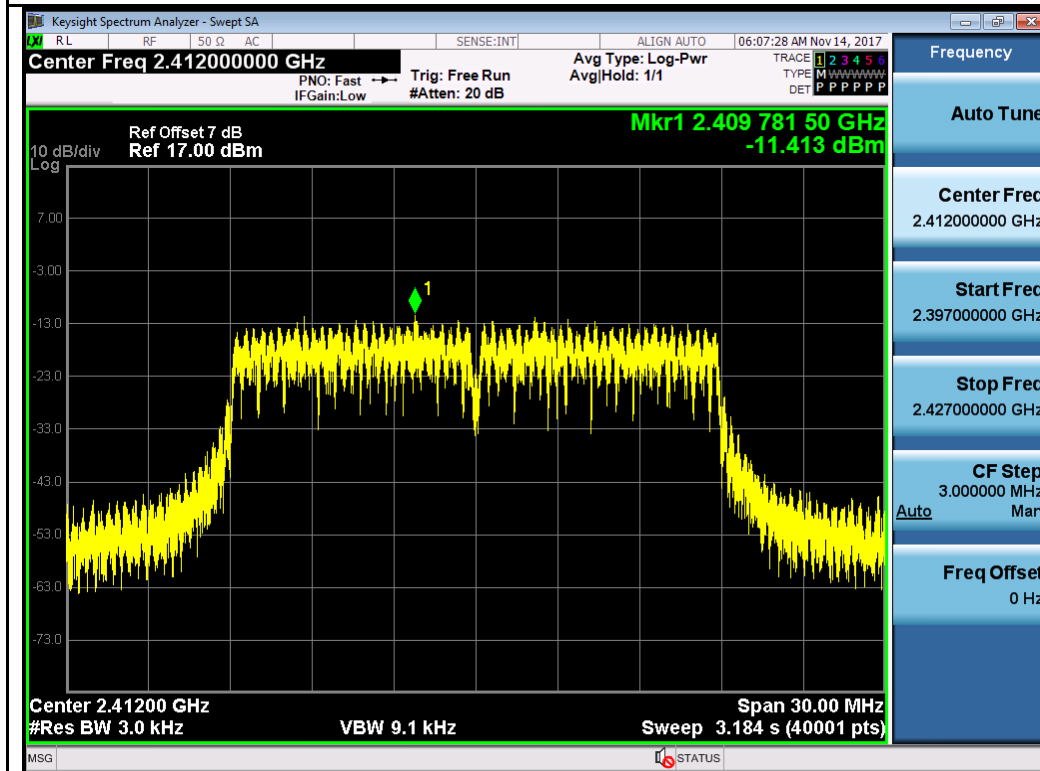
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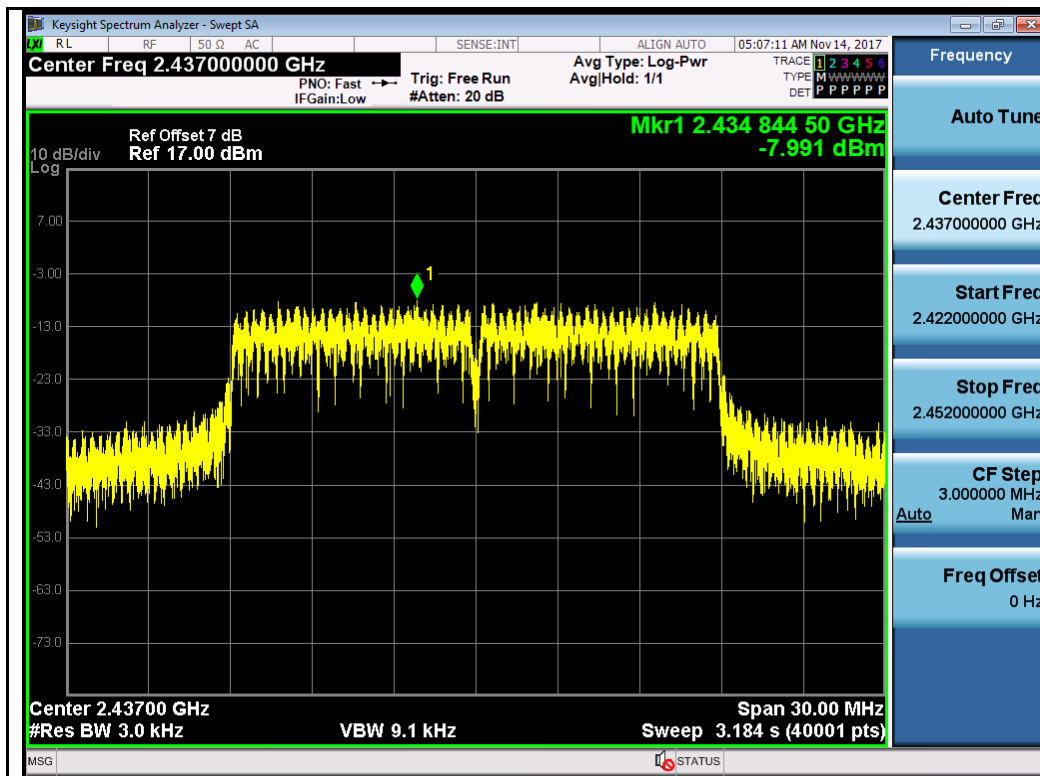
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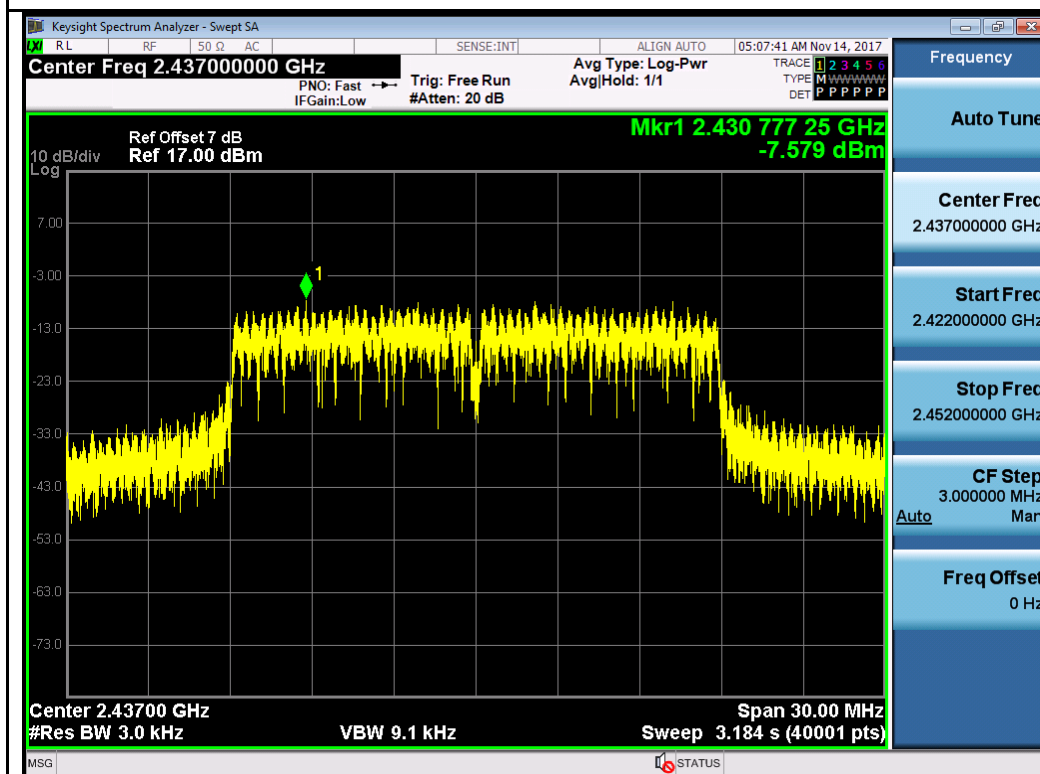
802.11n-HT20 2412MHz Chain 0



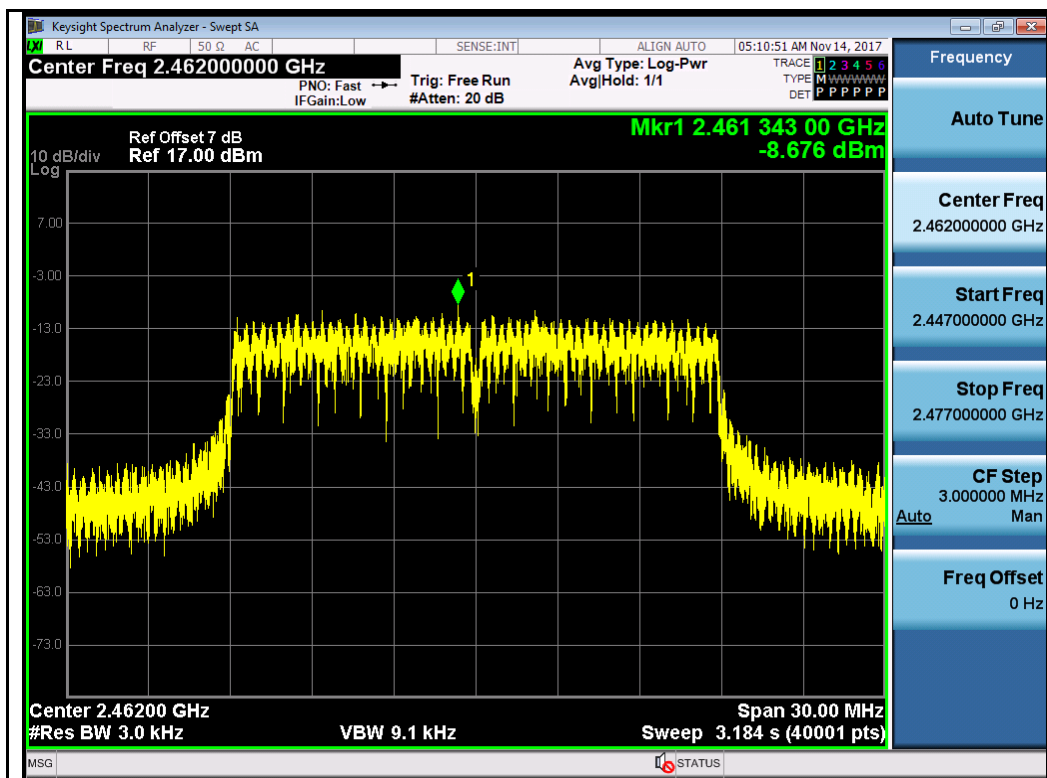
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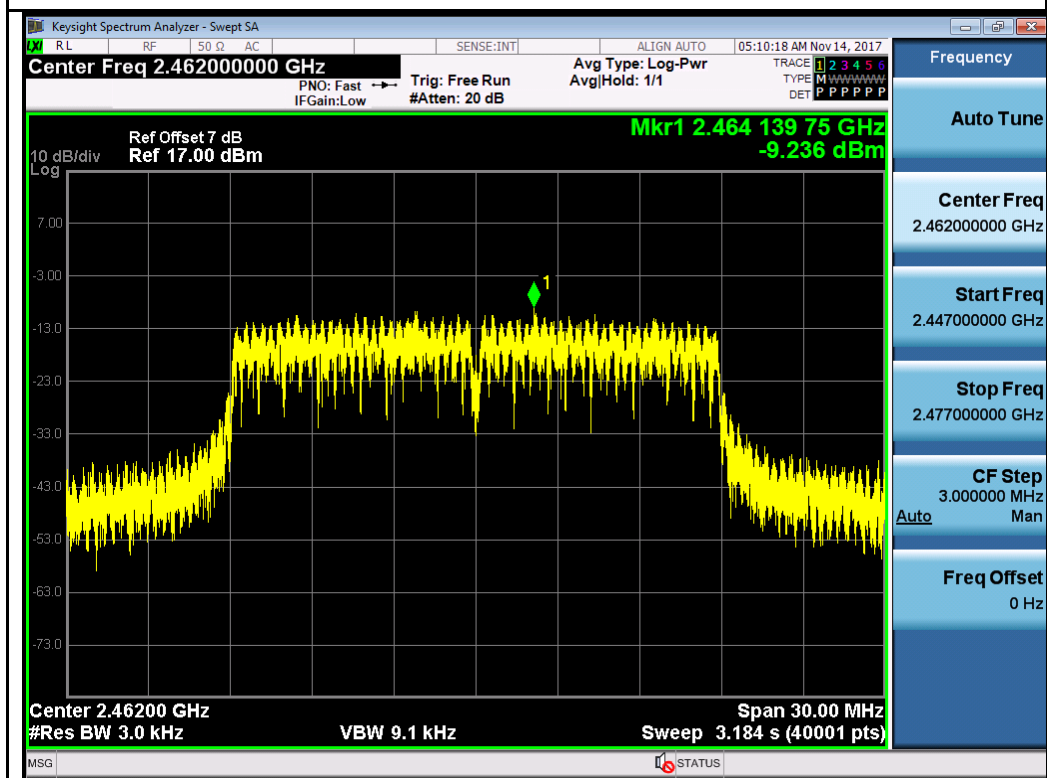
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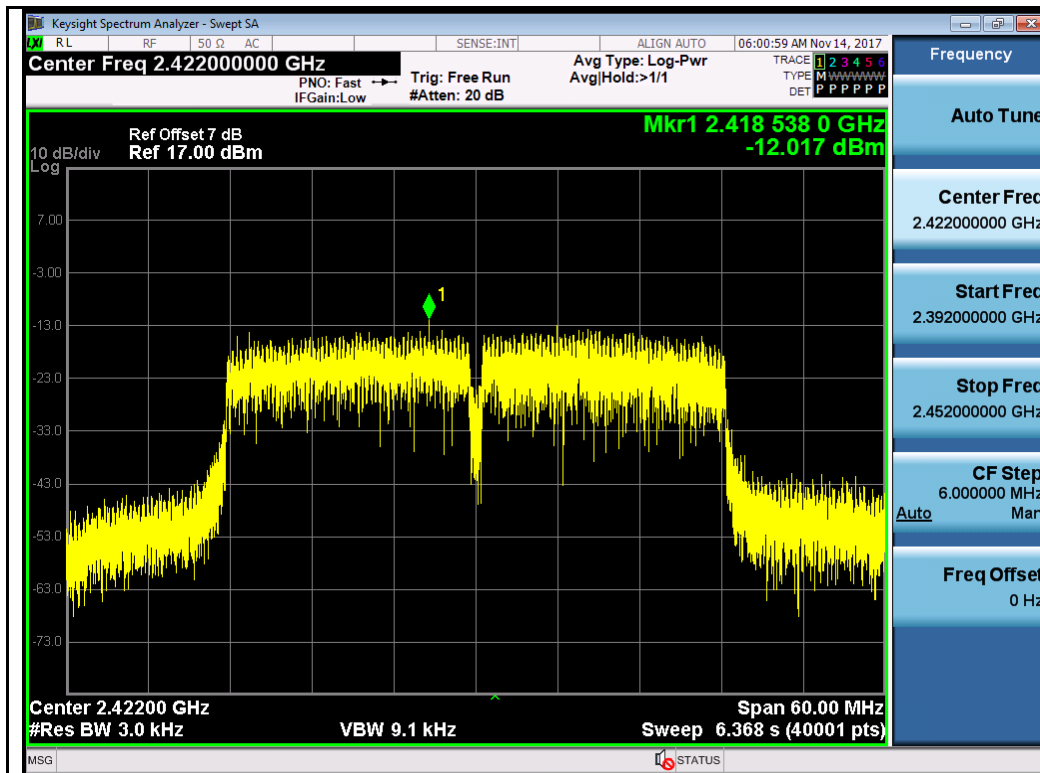
802.11n-HT20 2437MHz Chain 1



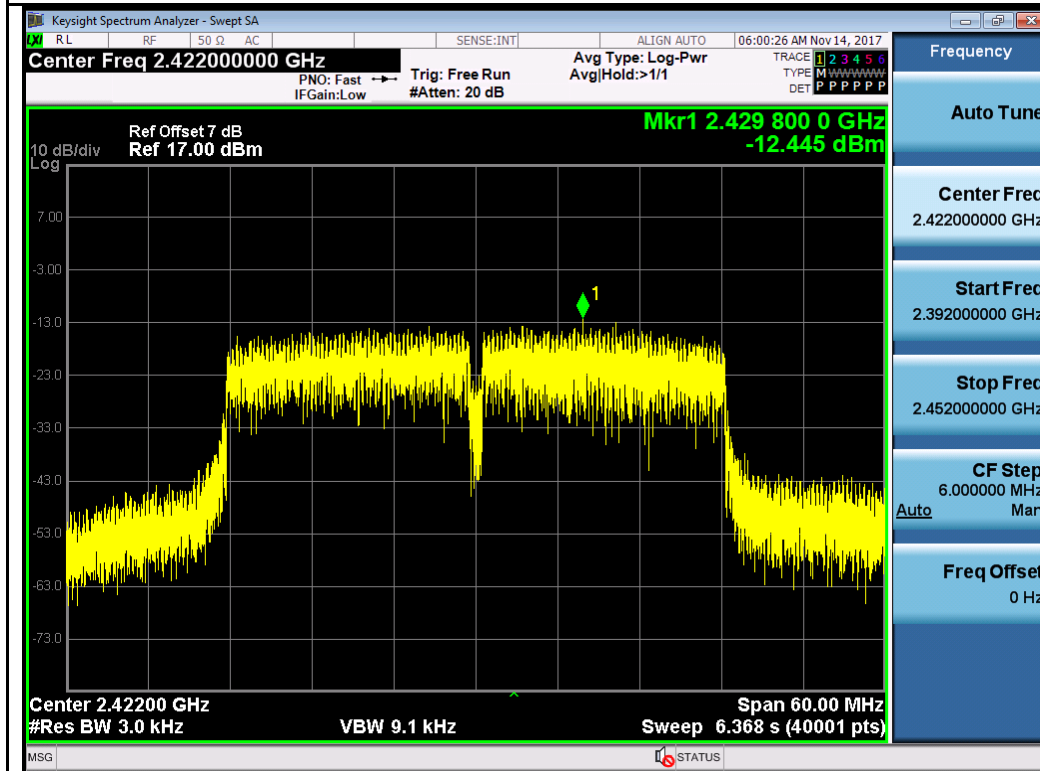
802.11n-HT20 2462MHz Chain 0



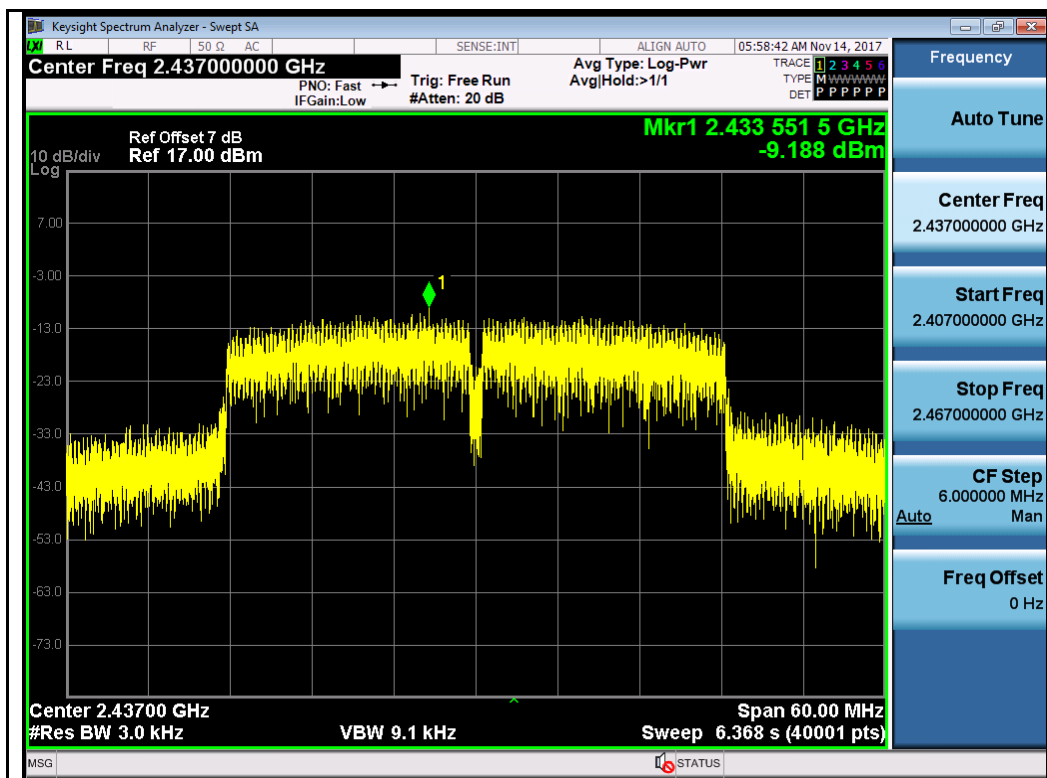
802.11n-HT20 2462MHz Chain 1



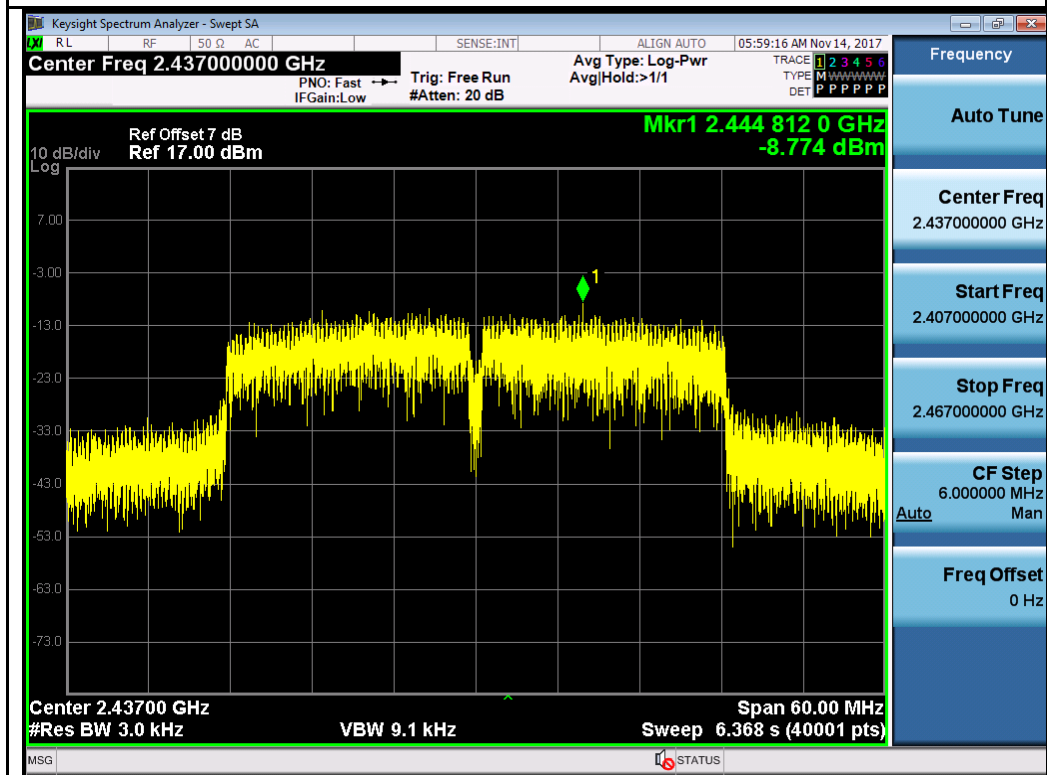
802.11n-HT40 2422MHz Chain 0



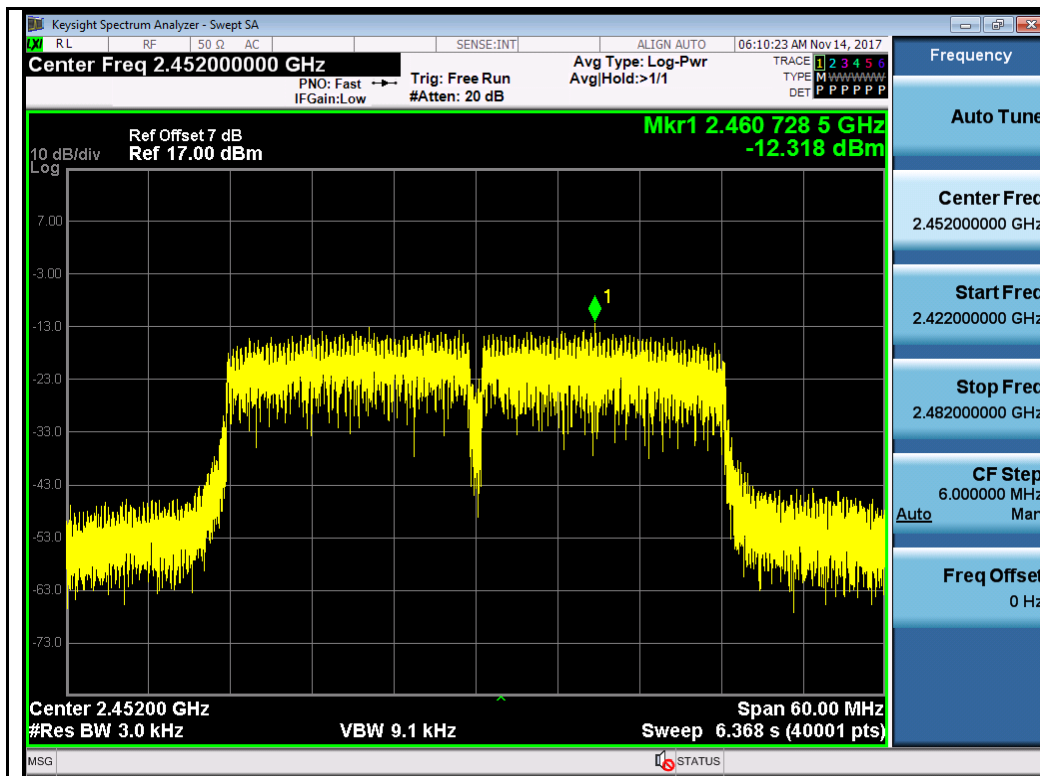
802.11n-HT40 2422MHz Chain 1



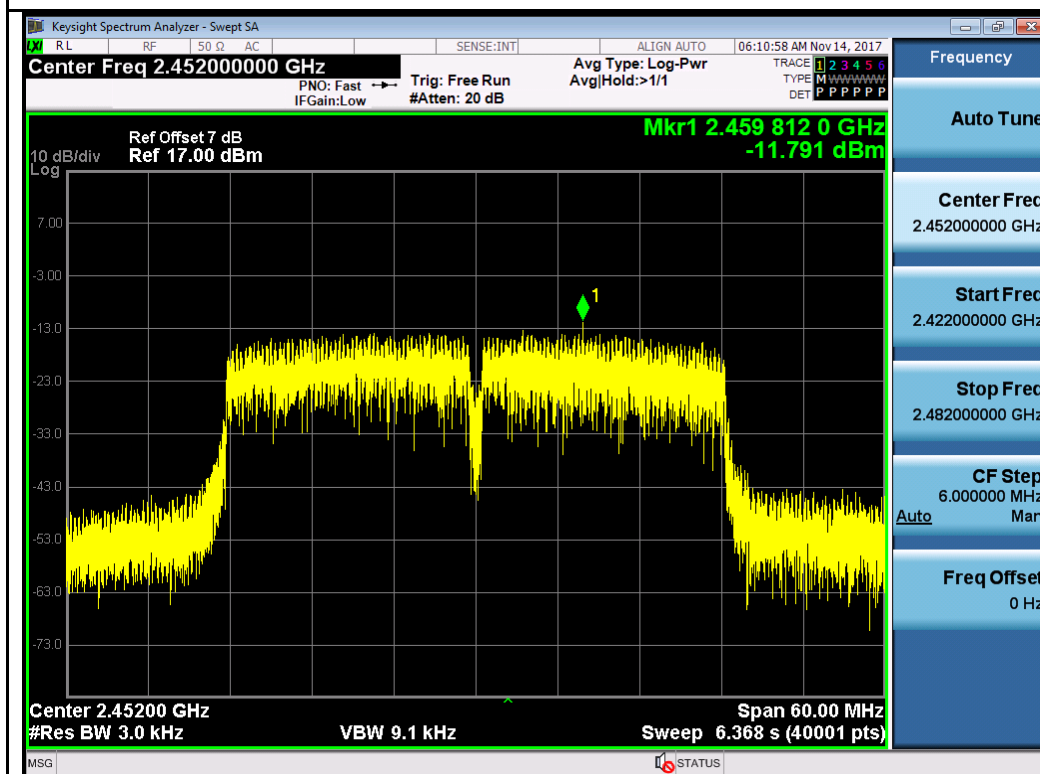
802.11n-HT40 2437MHz Chain 0



802.11n-HT40 2437MHz Chain 1

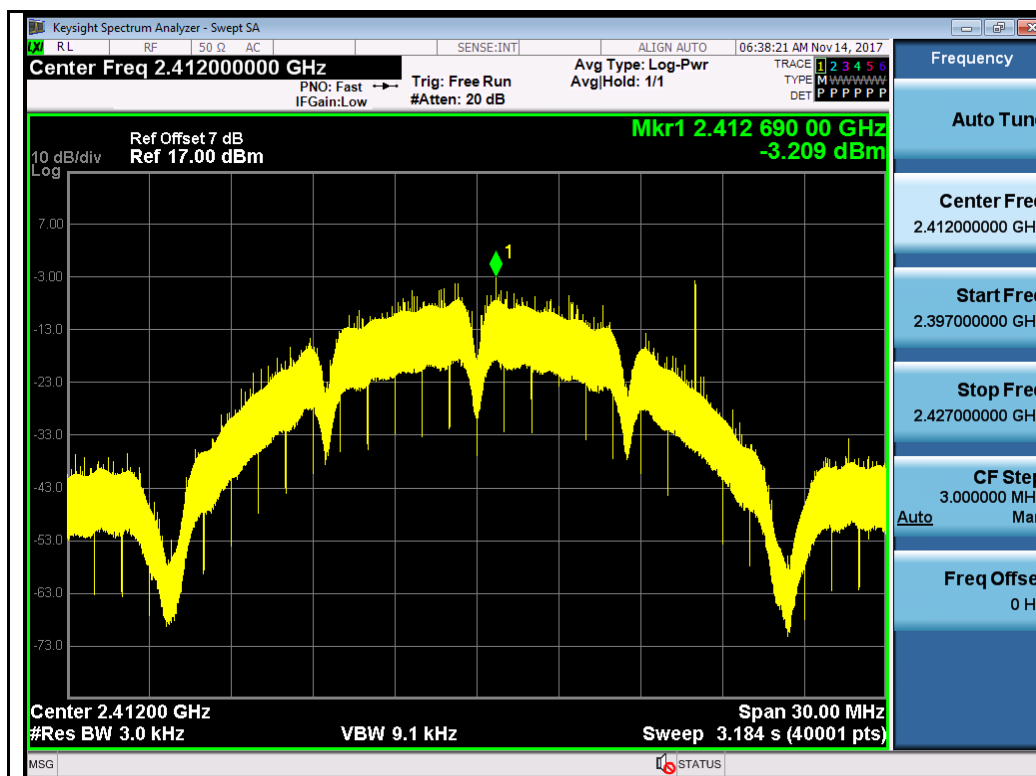


802.11n-HT40 2452MHz Chain 0

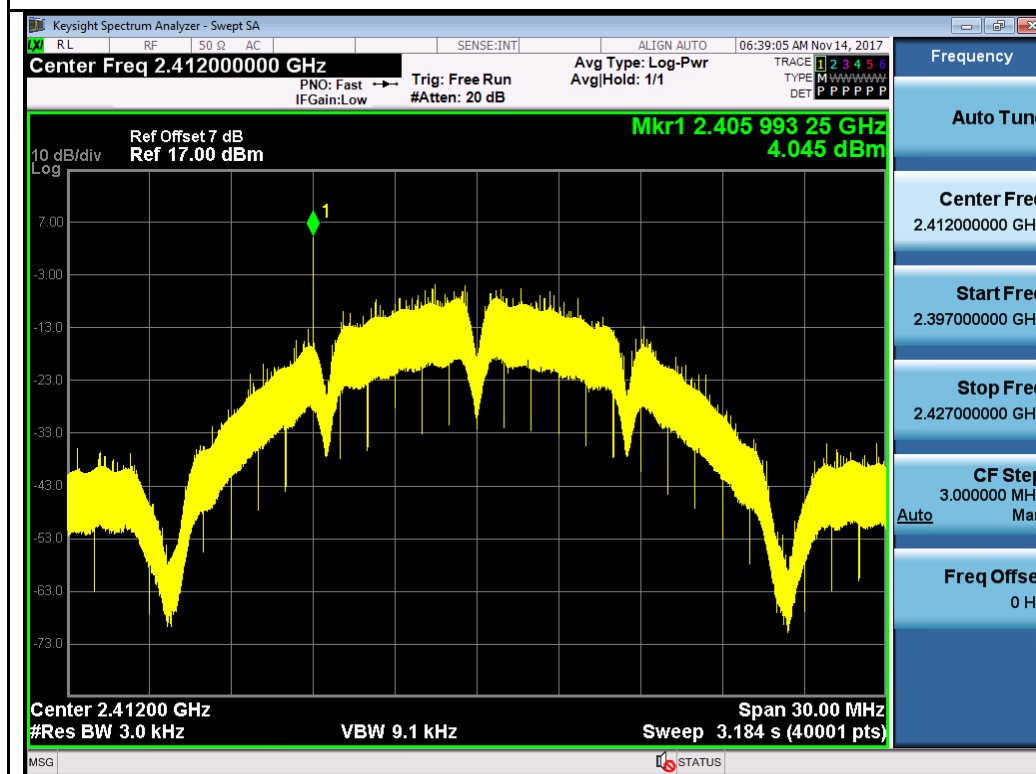


802.11n-HT40 2452MHz Chain 1

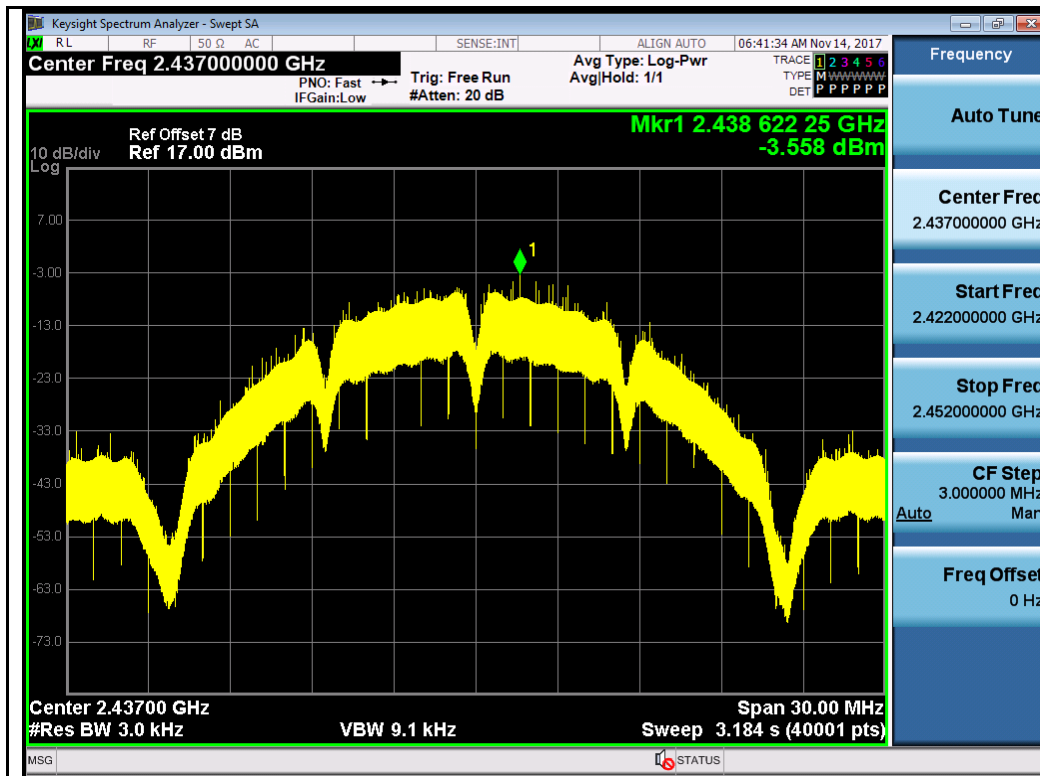
T310S

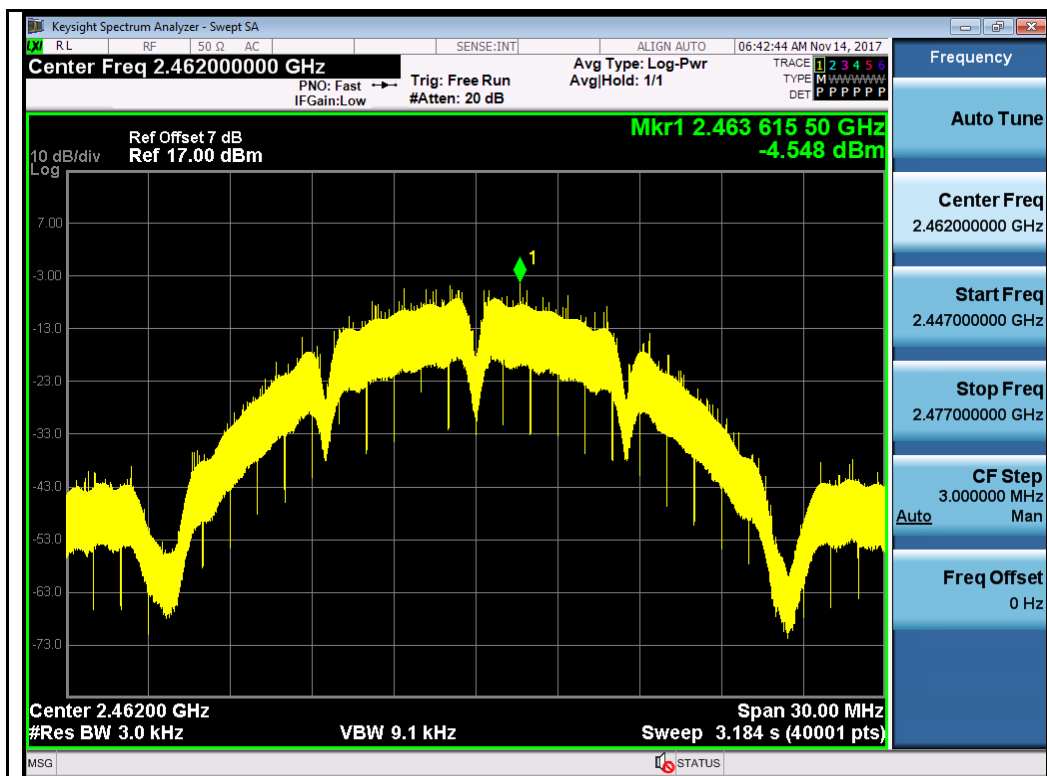


802.11b-2412MHz Chain 0



802.11b-2412MHz Chain 1

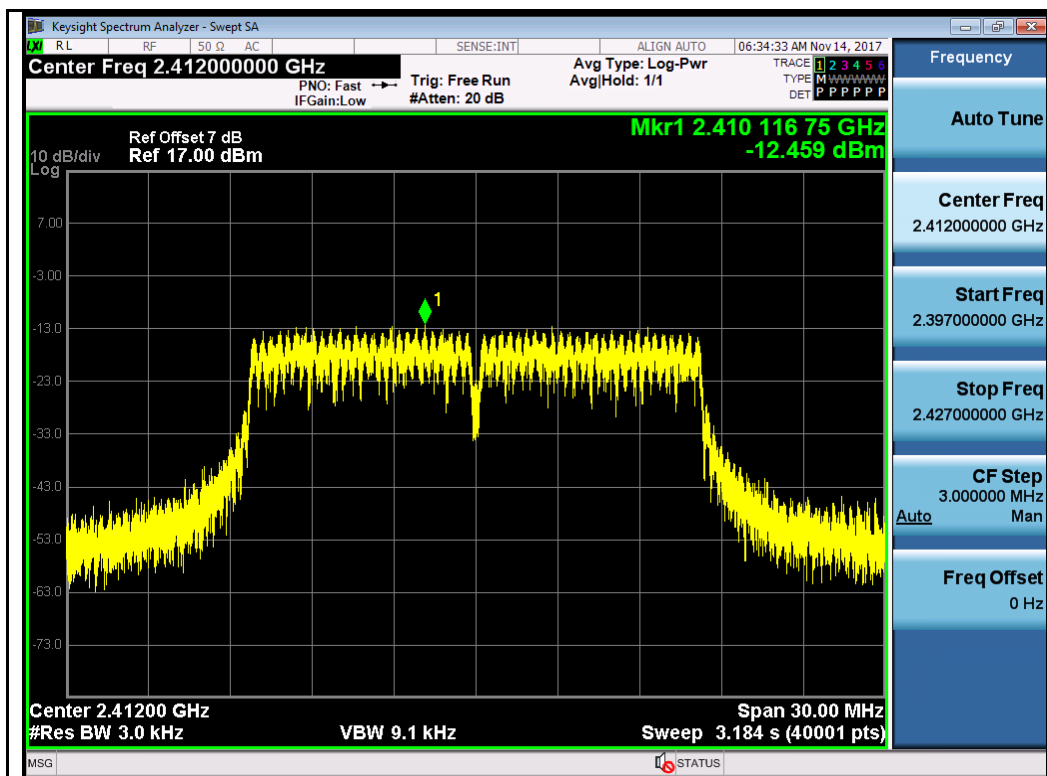




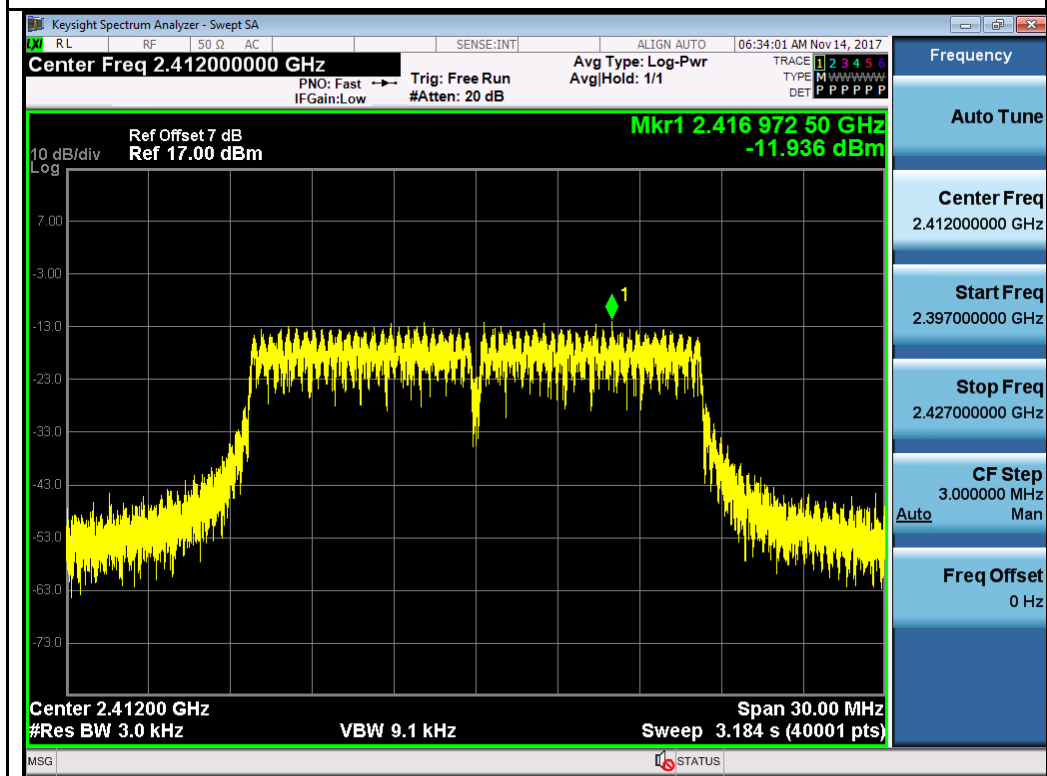
802.11b-2462MHz Chain 0



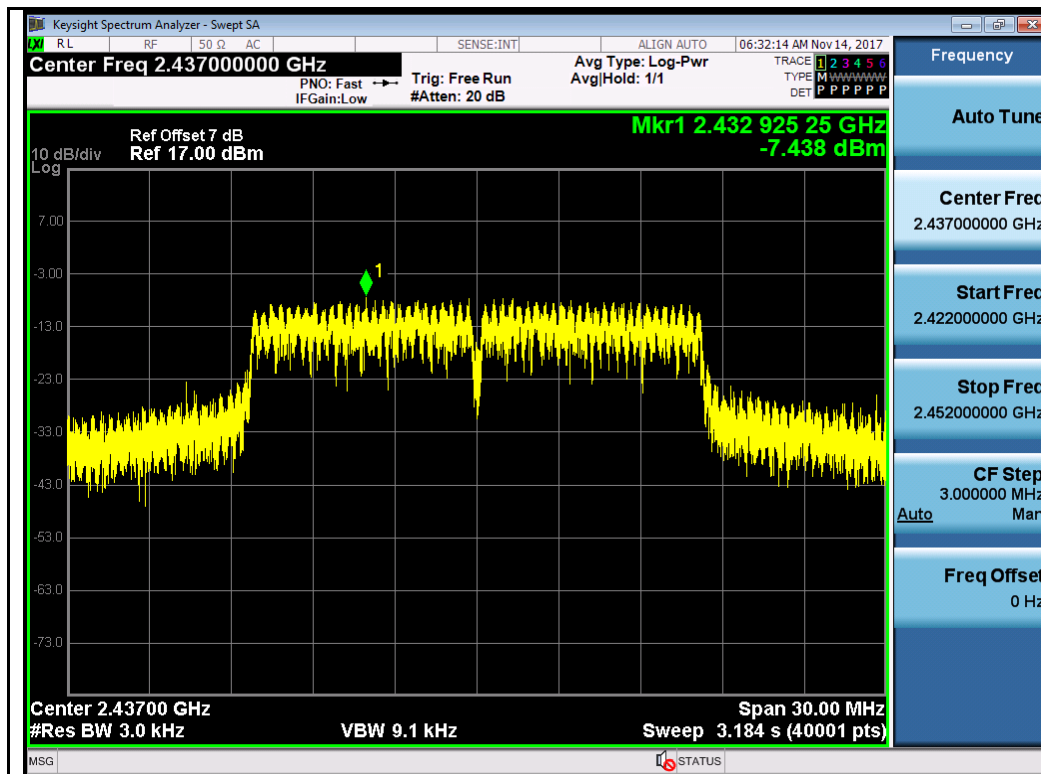
802.11b-2462MHz Chain 1



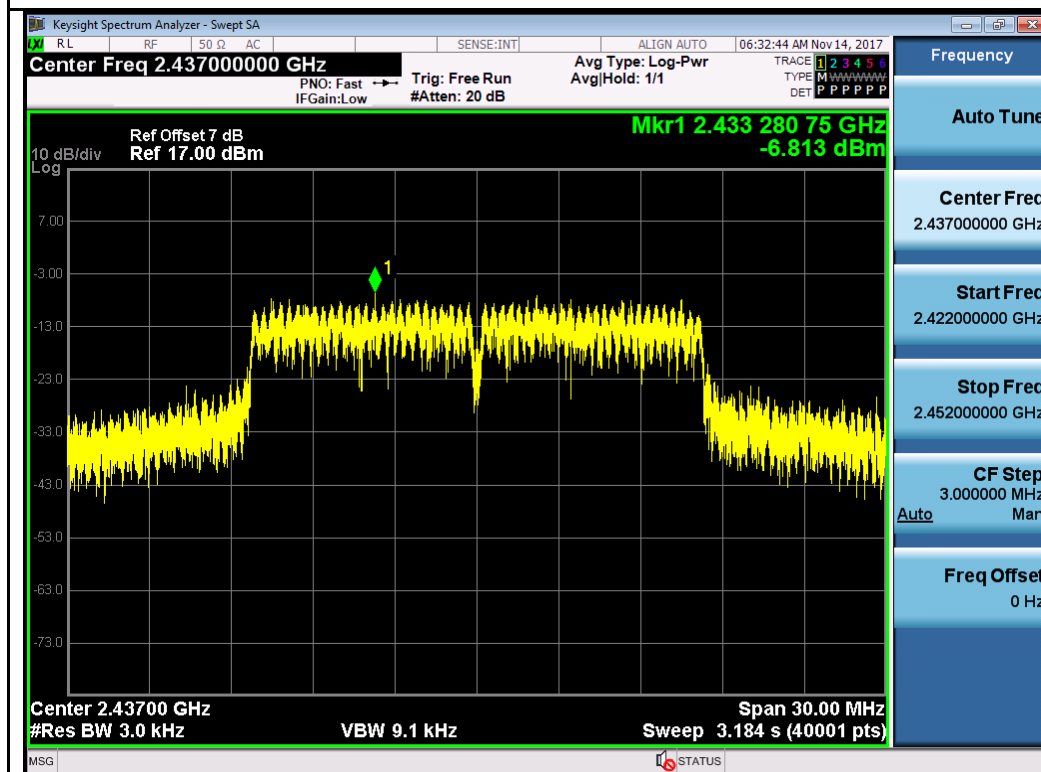
802.11g-2412MHz Chain 0



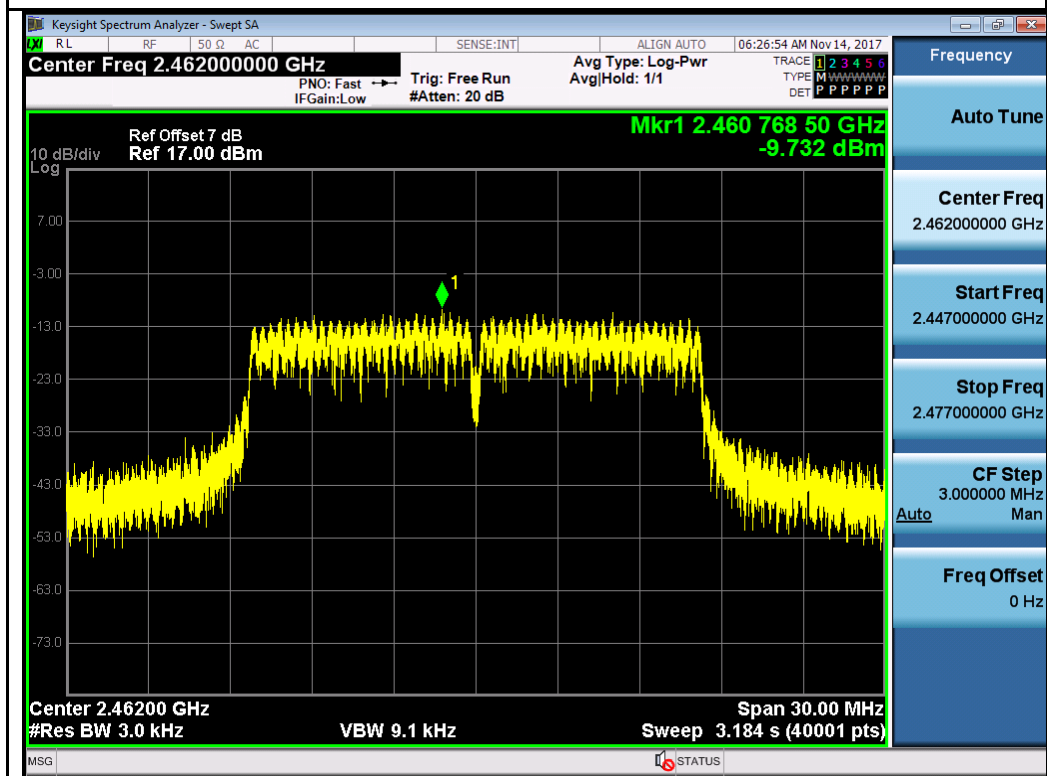
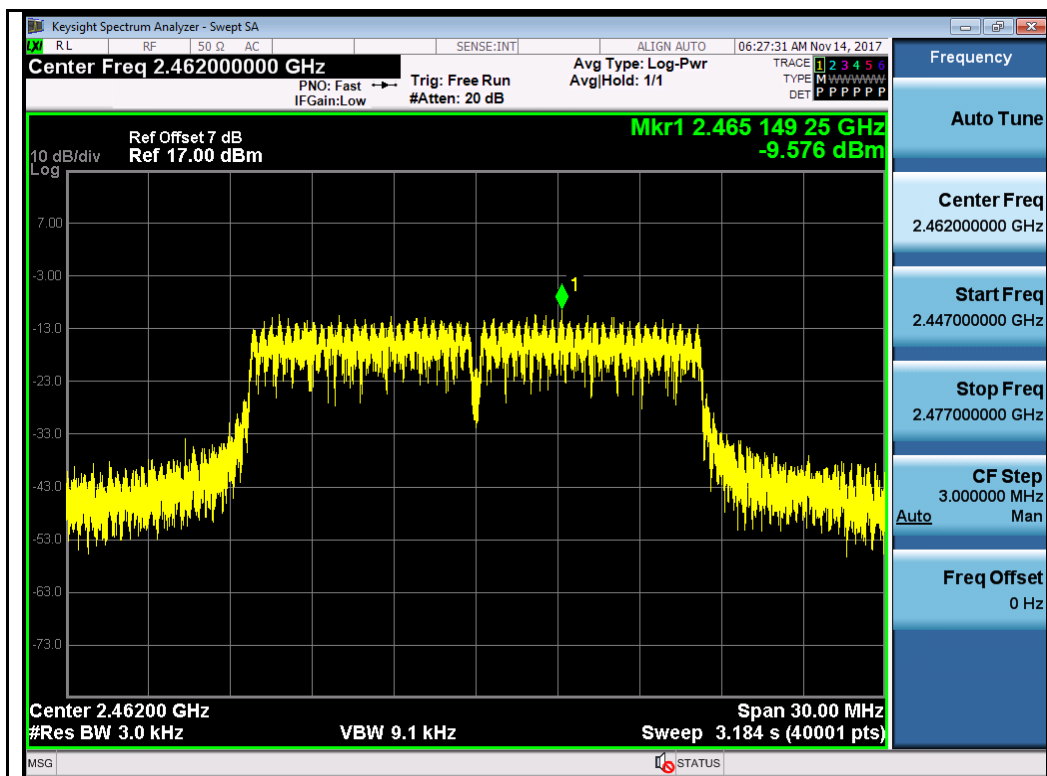
802.11g-2412MHz Chain 1

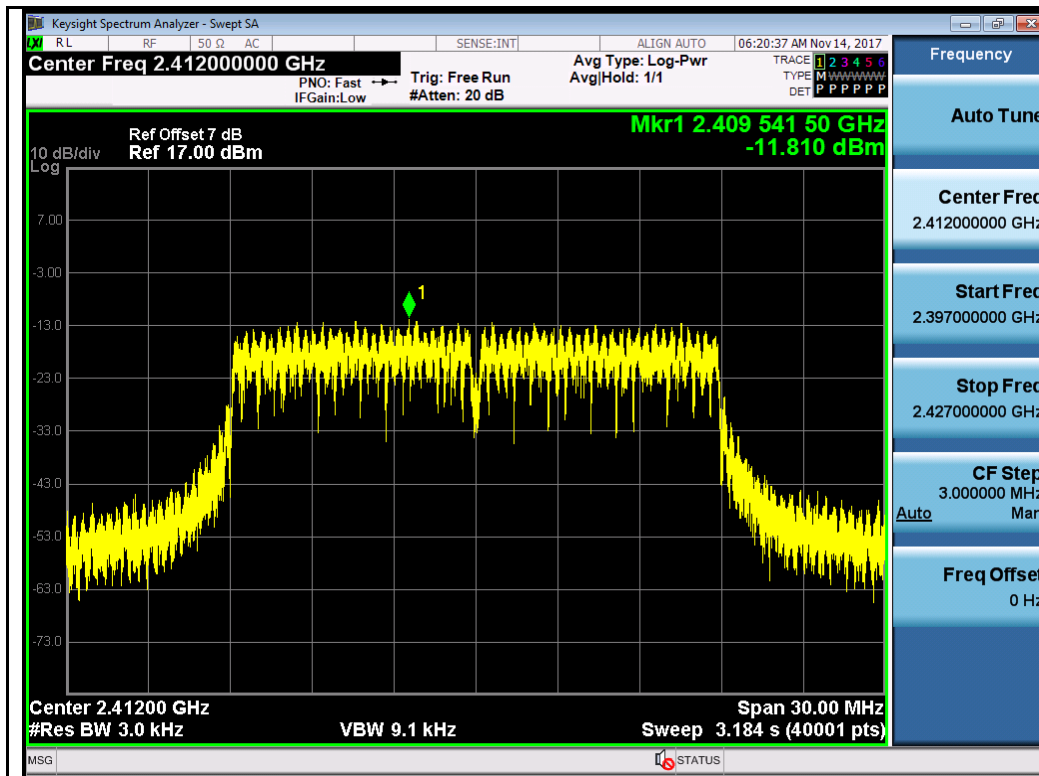


802.11g-2437MHz Chain 0

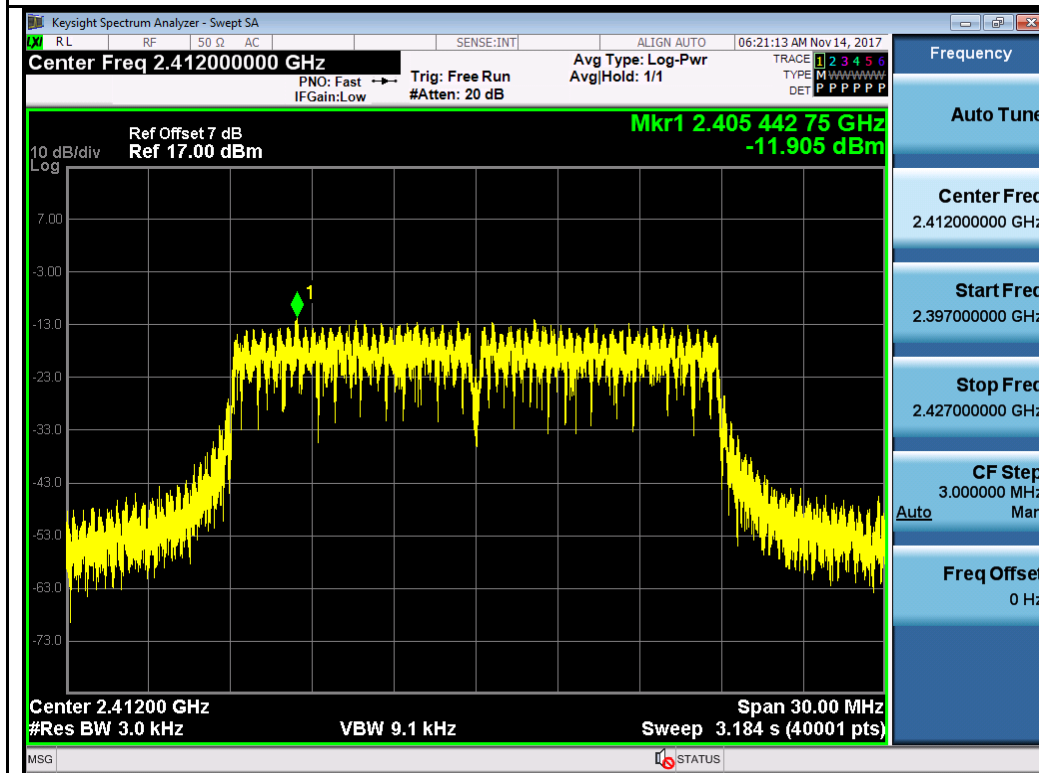


802.11g-2437MHz Chain 1

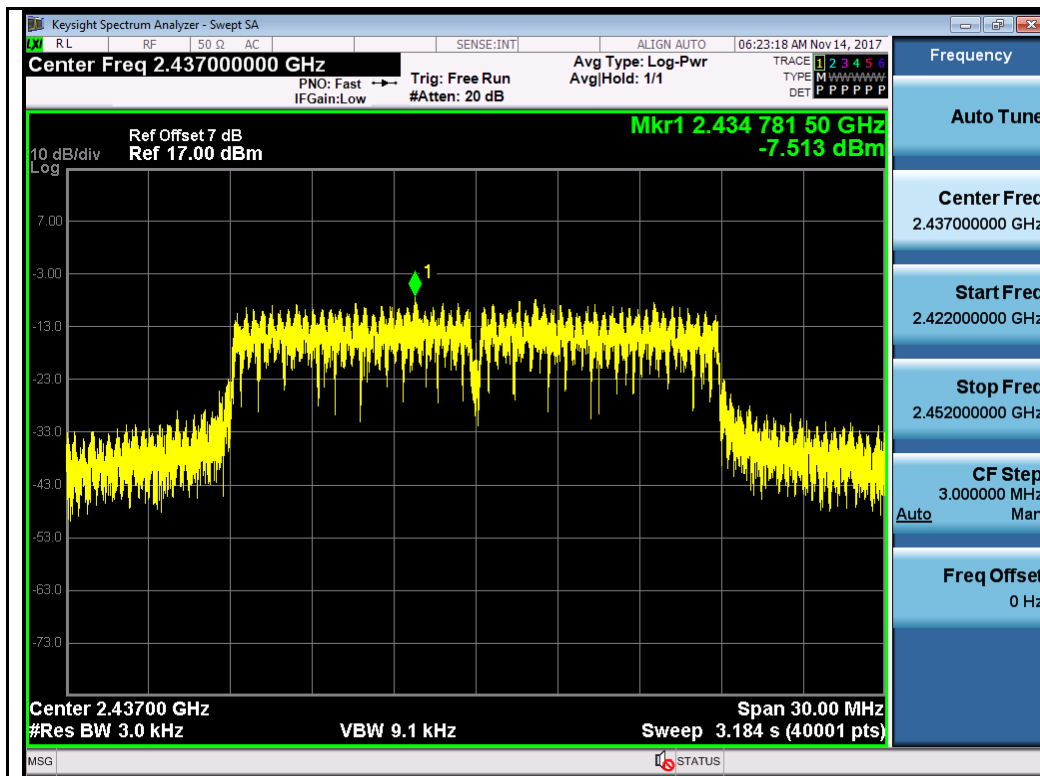




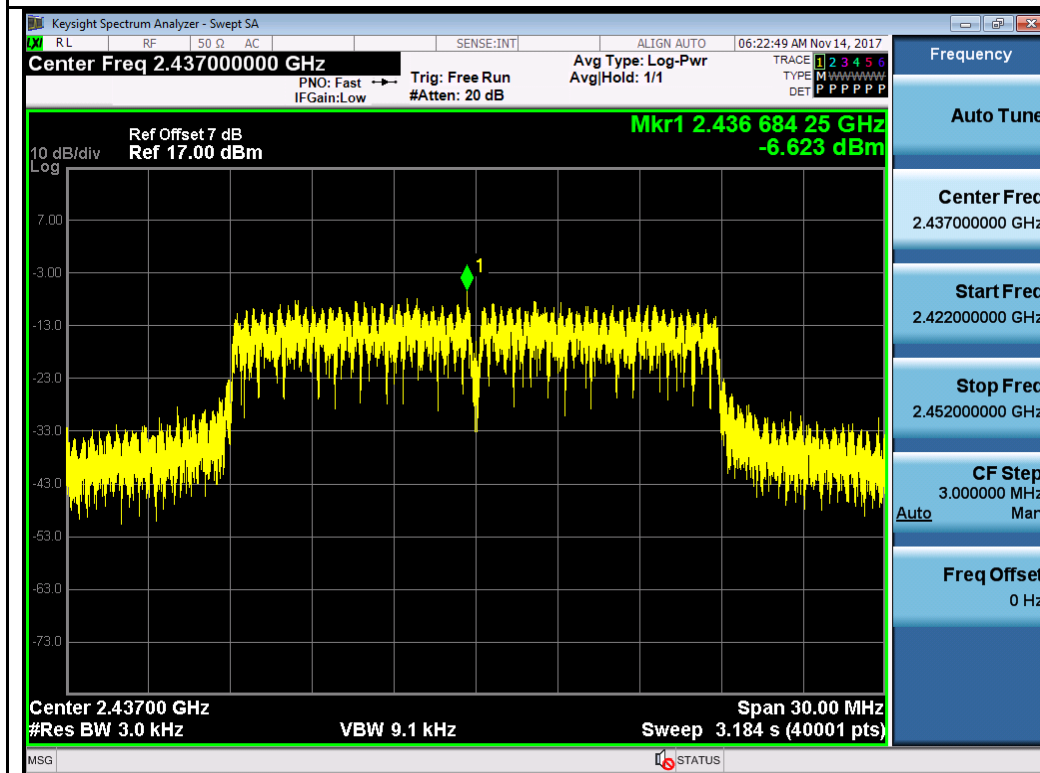
802.11n-HT20 2412MHz Chain 0



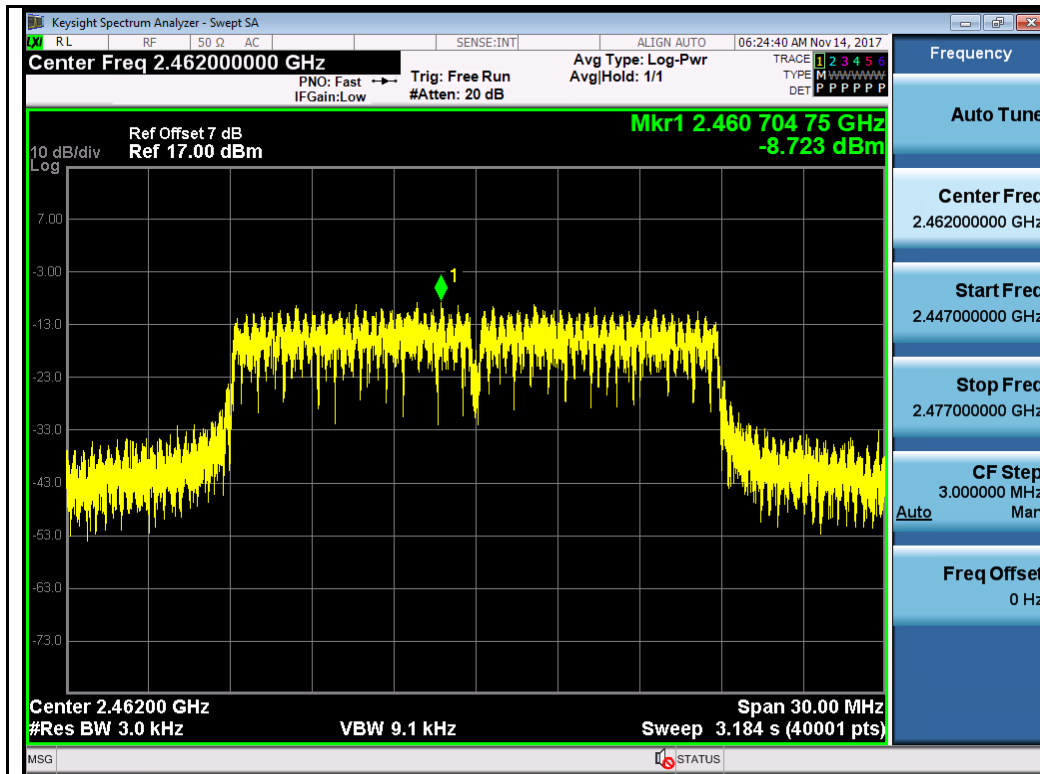
802.11n-HT20 2412MHz Chain 1



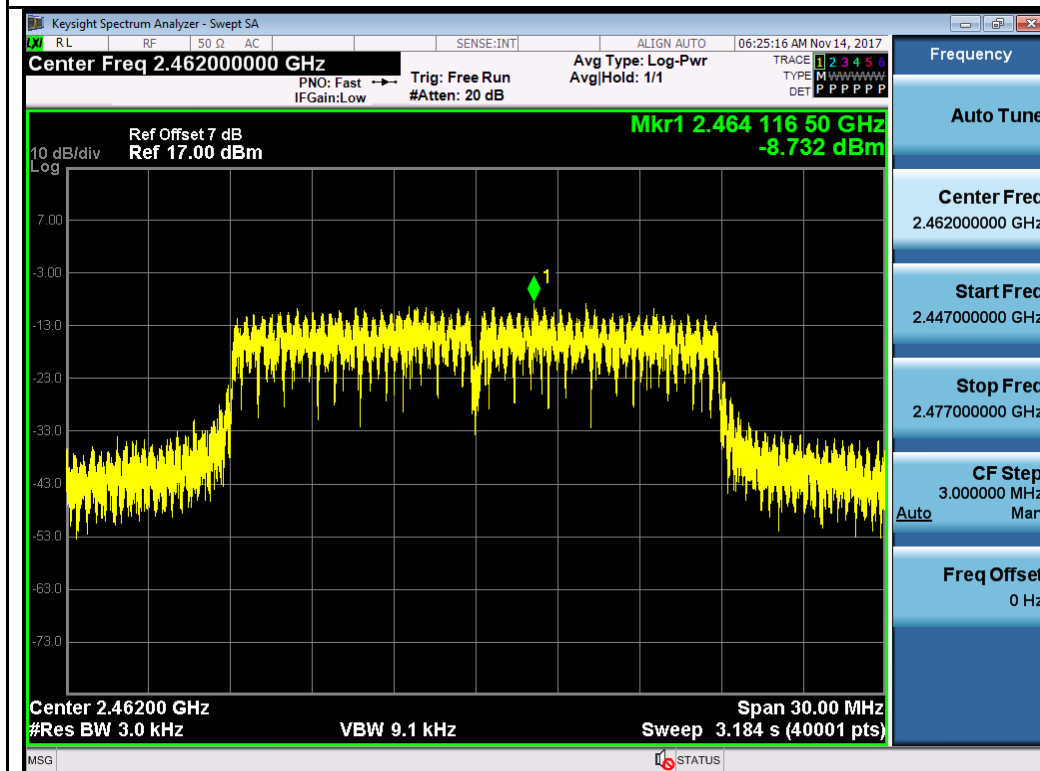
802.11n-HT20 2437MHz Chain 0



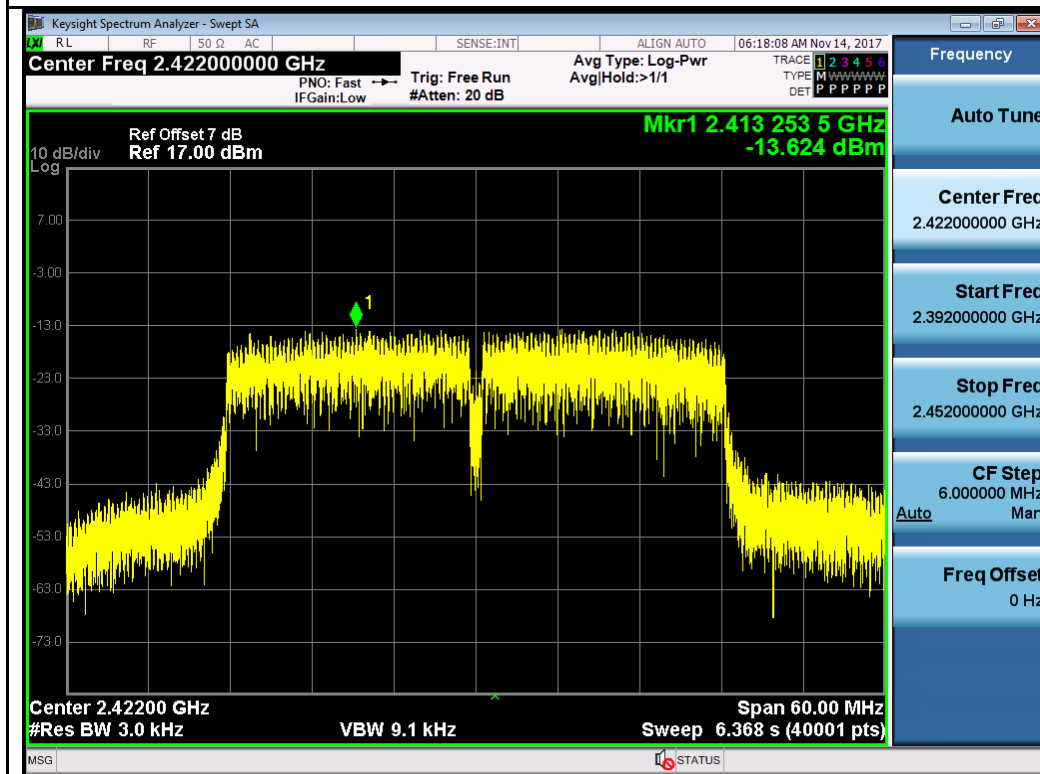
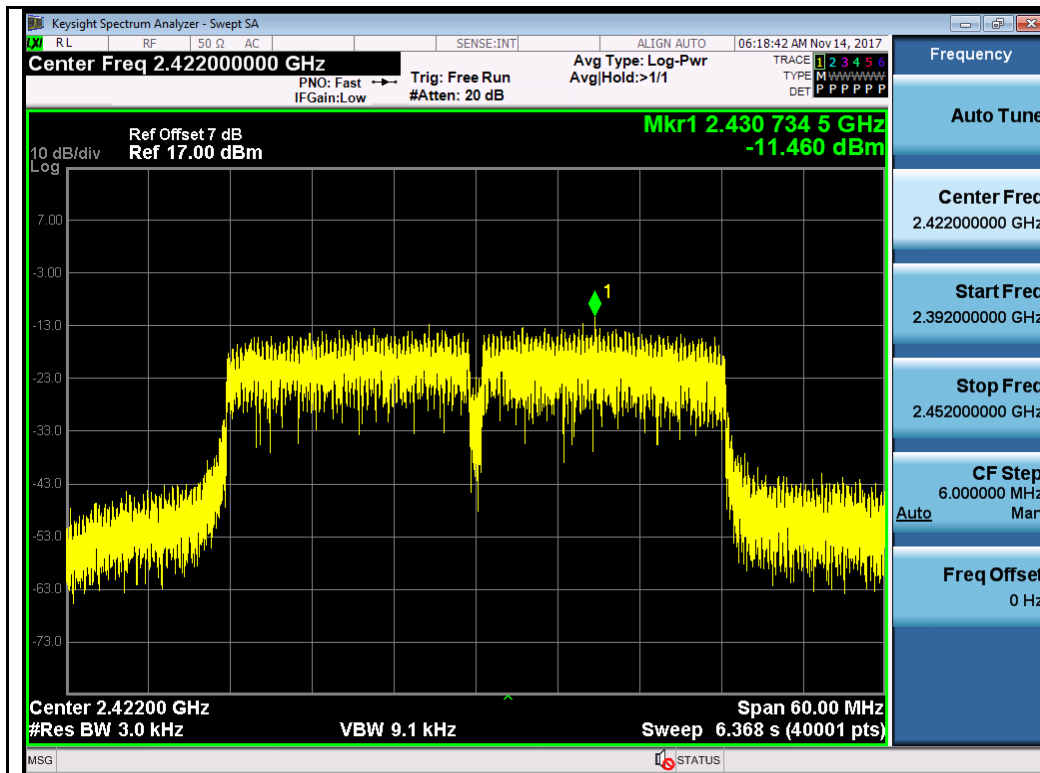
802.11n-HT20 2437MHz Chain 1

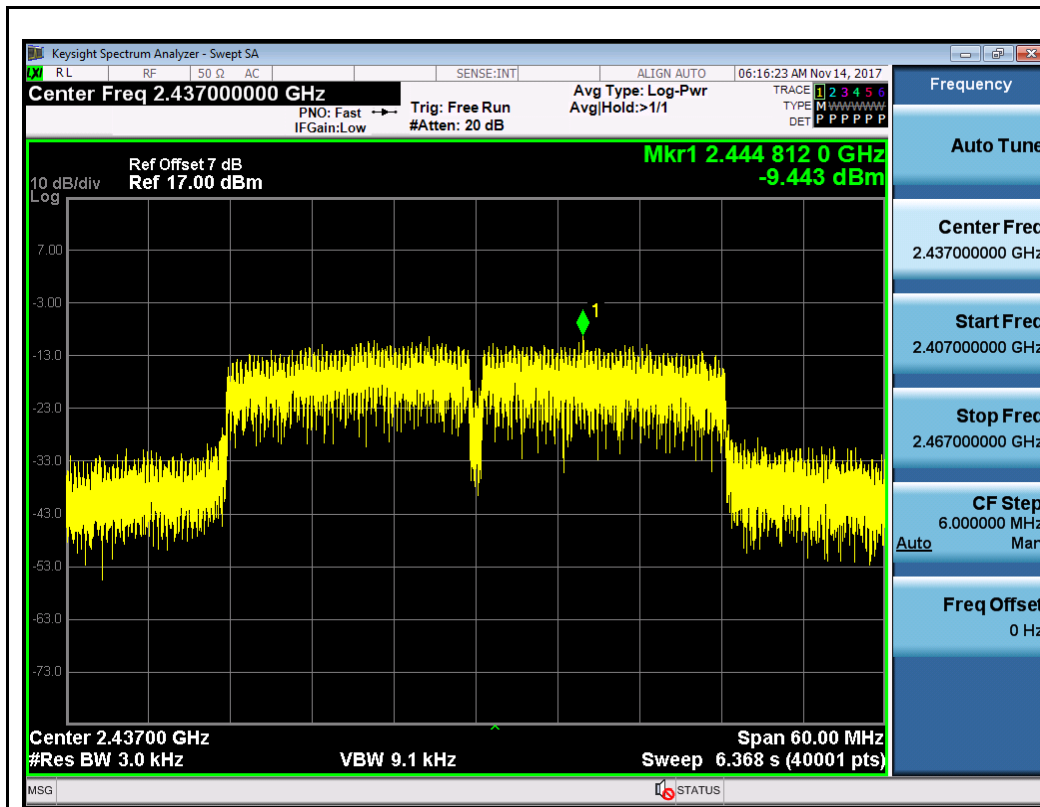


802.11n-HT20 2462MHz Chain 0

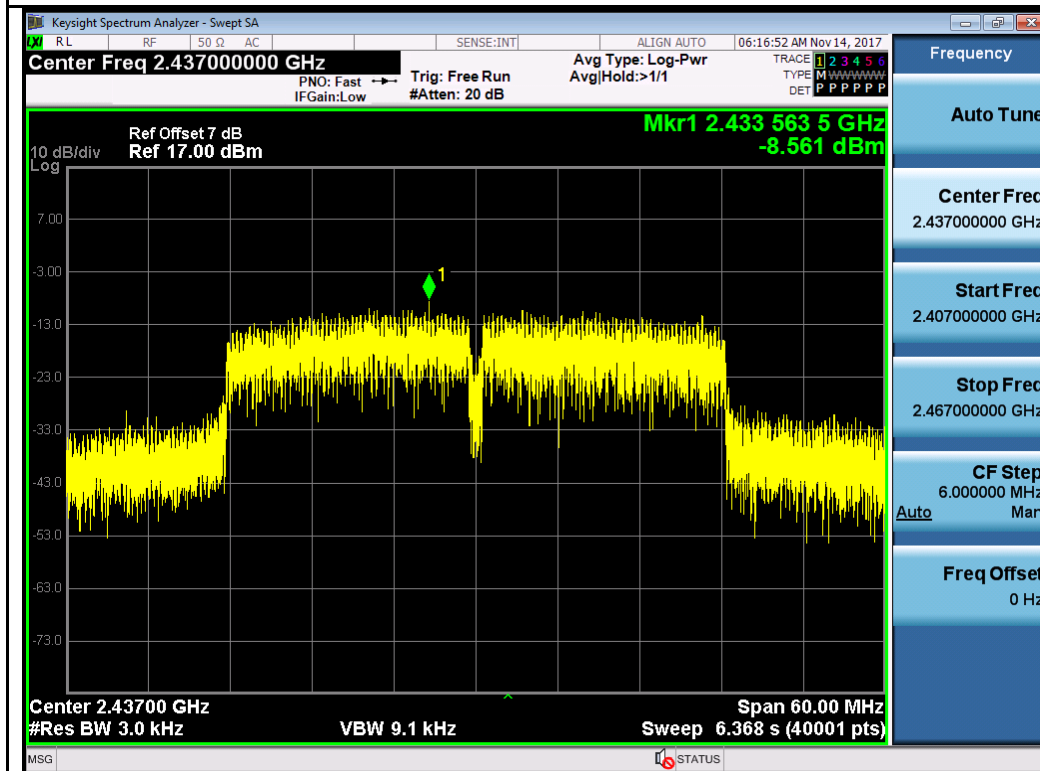


802.11n-HT20 2462MHz Chain 1

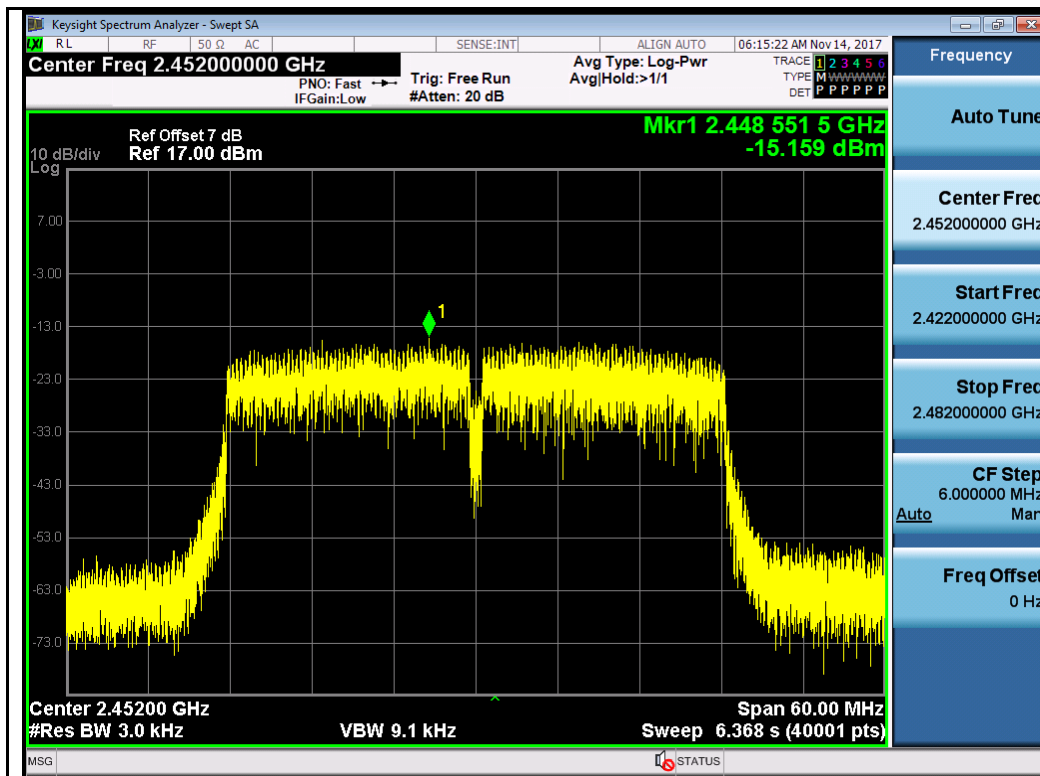




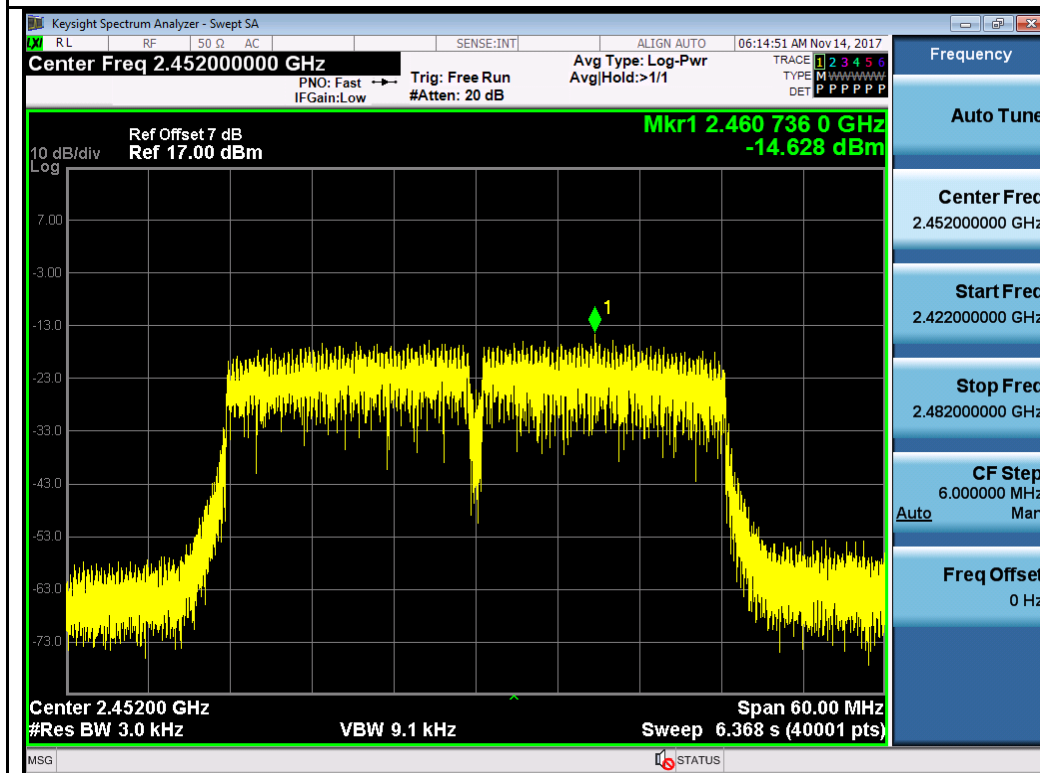
802.11n-HT40 2437MHz Chain 0



802.11n-HT40 2437MHz Chain 1



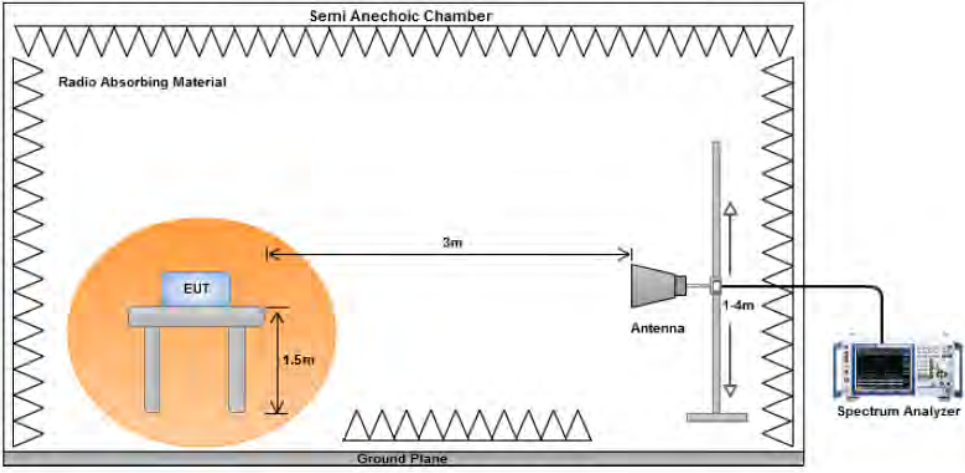
802.11n-HT40 2452MHz Chain 0



802.11n-HT40 2452MHz Chain 1

10.7 Radiated Spurious Emissions in restricted band

Requirement(s):

Spec	Item	Requirement	Applicable
47CFR§15.247(d), RSS247(A8.5)	a)	For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required ☐ 20 dB down ☒ 30 dB down	☒
	b)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209	☒
Test Setup			
Procedure	- The EUT was switched on and allowed to warm up to its normal operating condition. - 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: - Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. - The EUT was then rotated to the direction that gave the maximum emission. - Finally, the antenna height was adjusted to the height that gave the maximum emission. - An average measurement was then made for that frequency point. - Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.		
Remark	The EUT was scanned up to 40GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case. Radiated measurement was measured with antenna port terminated, there isn't outstanding emission found at the edge of restricted frequency, within x dB margin		
Result	☒ Pass ☐ Fail		

Test Data ☐ Yes (See below) ☒ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Cipher at 10m chamber.

Restricted Band Measurement Plots:
T310N



802.11b-2412MHz



802.11b-2462MHz



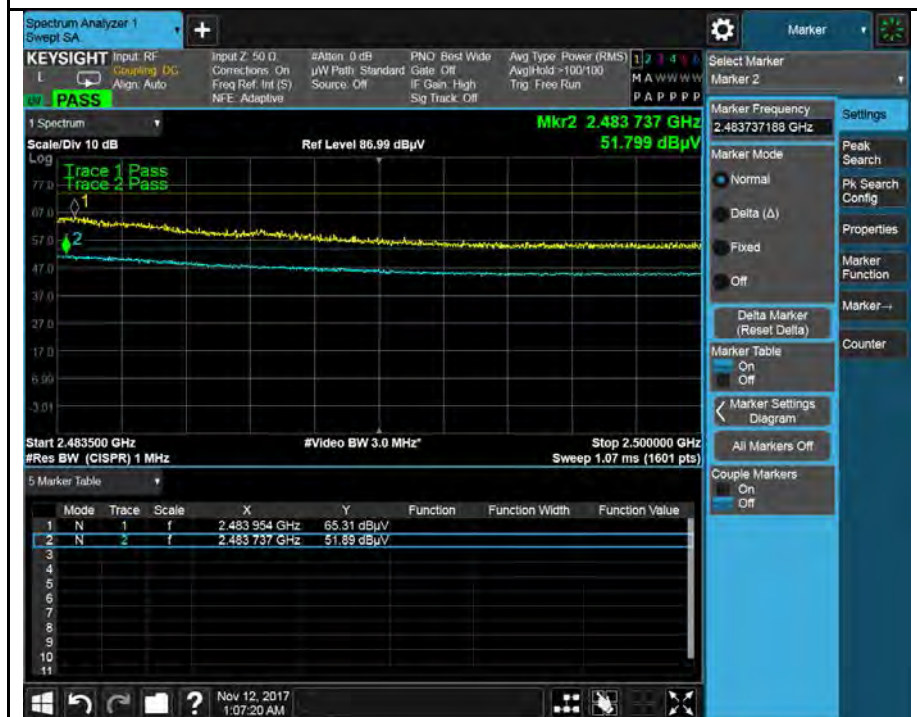
802.11g-2412MHz



802.11g-2462MHz



802.11n-HT20-2412MHz



802.11n-HT20-2462MHz



802.11n-HT40-2422MHz



802.11n-HT40-2452MHz

T310S



802.11b-2412MHz



802.11b-2462MHz



802.11g-2412MHz



802.11g-2462MHz



802.11n-HT20-2412MHz



802.11n-HT20-2462MHz



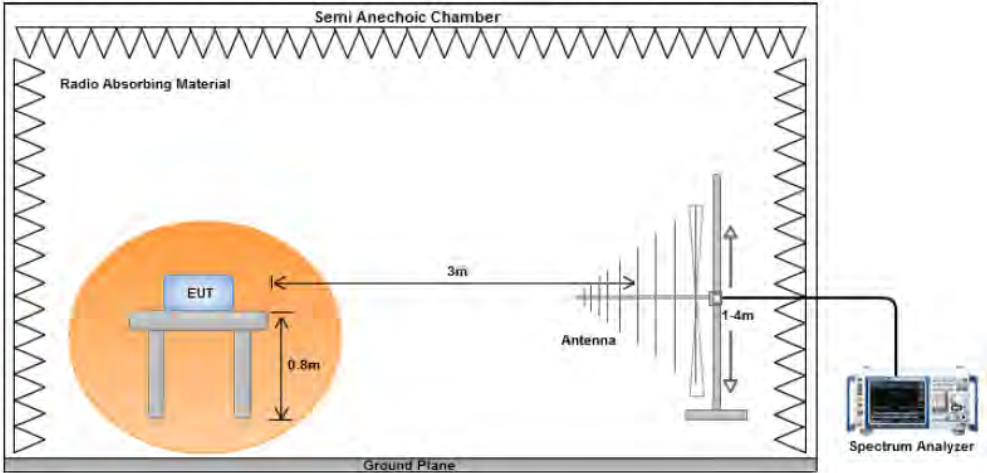
802.11n-HT40-2422MHz



802.11n-HT40-2452MHz

10.8 Radiated Spurious Emissions below 1GHz

Requirement(s):

Spec	Item	Requirement	Applicable							
47CFR§15.247(d) RSS247 (5.5)	a)	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	☒							
		<table><tr><th>Frequency range (MHz)</th><th>Field Strength (uV/m)</th></tr><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></table>		Frequency range (MHz)	Field Strength (uV/m)	30 – 88	100	88 – 216	150	216 960
Frequency range (MHz)	Field Strength (uV/m)									
30 – 88	100									
88 – 216	150									
216 960	200									
Above 960	500									
Test Setup										
Procedure	1. The EUT was switched on and allowed to warm up to its normal operating condition. 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: a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission. c. Finally, the antenna height was adjusted to the height that gave the maximum emission. 3. A Quasi-peak measurement was then made for that frequency point. 4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.									
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									

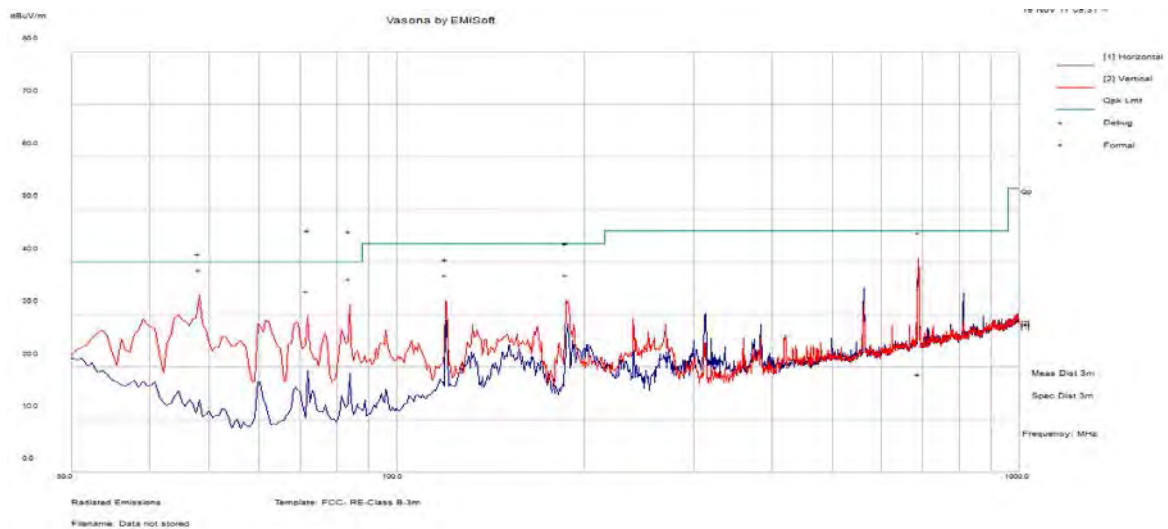
Test Data ☒ Yes (See below) ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Cipher at 10m chamber.

Radiated Emission Test Results (Below 1GHz)

Test specification	below 1GHz			
Environmental Conditions:	Temp (°C):	23	Result	Pass
	Humidity (%)	46		
	Atmospheric (mbar):	1018		
Mains Power:	120VAC, 60Hz			
Tested by:	Cipher			
Test Date:	11/11/2017-11/21/2017			
Remarks:	802.11n HT40, middle channel			

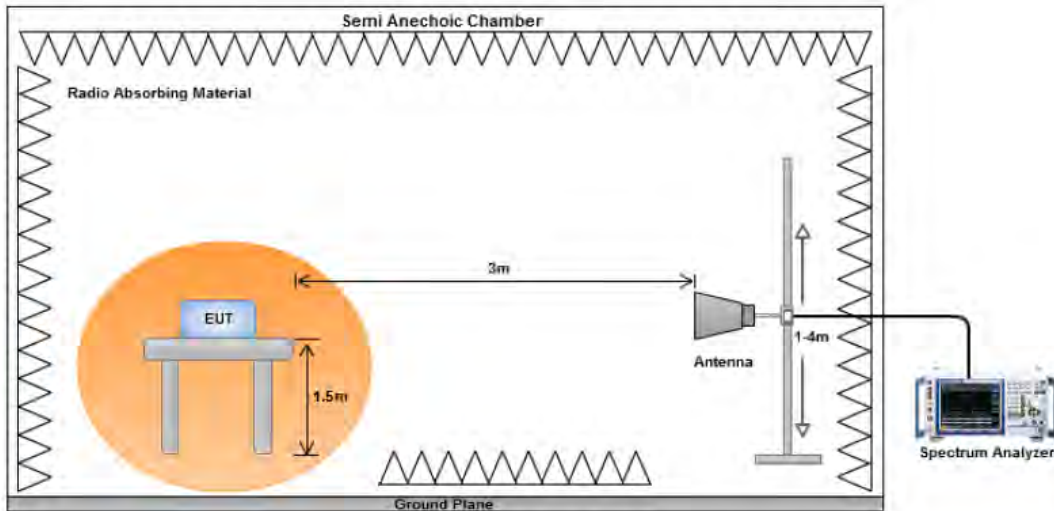


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
72.027813	45.38	11.72	-27.95	29.16	Quasi Max	V	100	205	40	-10.85	Pass
84.023438	45.51	11.85	-28.46	28.91	Quasi Max	V	136	268	40	-11.09	Pass
48.016876	42.84	11.56	-26.66	27.74	Quasi Max	V	102	158	40	-12.26	Pass
187.29813	40.3	12.74	-25.67	27.37	Quasi Max	V	148	265	43.5	-16.13	Pass
120.00938	43.49	12.25	-22.85	32.89	Quasi Max	V	135	173	43.5	-10.61	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case T310N, T310N is the worst case of T310N and T310S.

10.9 Radiated Spurious Emissions between 1GHz – 25GHz

Requirement(s):

Spec	Item	Requirement	Applicable
47CFR§15.247(d), RSS247(A8.5)	a)	For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required ☐ 20 dB down ☒ 30 dB down	☒
	b)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209	☒
Test Setup			
Procedure	- The EUT was switched on and allowed to warm up to its normal operating condition. - 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: - Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. - The EUT was then rotated to the direction that gave the maximum emission. - Finally, the antenna height was adjusted to the height that gave the maximum emission. - An average measurement was then made for that frequency point. - Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.		
Remark	The EUT was scanned up to 40GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case. There isn't outstanding emission found at the edge of restricted frequency.		
Result	☒ Pass ☐ Fail		

Test Data ☒ Yes (See below) ☐ N/A

Test Plot ☐ Yes (See below) ☒ N/A

Test was done by Cipher at 10m chamber.

Radiated Emission Test Results (Above 1GHz)

Above 1GHz-25GHz – 802.11b – 2412MHz

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
4824.015	43.37	14.17	-12.38	45.16	Peak Max	H	231	16	74	-28.84	Pass
7235.25	35.91	15.32	-7.3	43.93	Peak Max	V	222	279	74	-30.07	Pass
9646.495	36.26	16.56	-2.47	50.35	Peak Max	H	251	306	74	-23.65	Pass
4824.015	37.53	14.17	-12.38	39.32	Average Max	H	231	16	54	-14.68	Pass
7235.25	23.77	15.32	-7.3	31.79	Average Max	V	222	279	54	-22.21	Pass
9646.495	23.55	16.56	-2.47	37.64	Average Max	H	251	306	54	-16.36	Pass

Above 1GHz-25GHz- 802.11b - 2437MHz

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
4874.08	42.9	14.2	-12.38	44.72	Peak Max	H	235	15	74	-29.28	Pass
7311.7025	35.26	15.35	-6.95	43.66	Peak Max	V	140	329	74	-30.34	Pass
9748.0275	35.53	16.54	-2.07	50.01	Peak Max	V	182	333	74	-23.99	Pass
4874.08	36.79	14.2	-12.38	38.61	Average Max	H	235	15	54	-15.39	Pass
7311.7025	23.23	15.35	-6.95	31.63	Average Max	V	140	329	54	-22.37	Pass
9748.0275	23.5	16.54	-2.07	37.97	Average Max	V	182	333	54	-16.03	Pass

Above 1GHz-25GHz – 802.11b – 2462MHz

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
4923.7775	39.89	14.23	-12.36	41.76	Peak Max	H	234	115	74	-32.25	Pass
7387.5925	36.36	15.38	-6.76	44.98	Peak Max	V	183	104	74	-29.02	Pass
9848.1275	35.28	16.53	-1.67	50.13	Peak Max	H	257	69	74	-23.87	Pass
4923.7775	27.26	14.23	-12.36	29.13	Average Max	H	234	115	54	-24.87	Pass
7387.5925	24.05	15.38	-6.76	32.68	Average Max	V	183	104	54	-21.32	Pass
9848.1275	23.08	16.53	-1.67	37.94	Average Max	H	257	69	54	-16.06	Pass

Above 1GHz-25GHz- 802.11g - 2412MHz

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
4822.505	38.71	14.17	-12.39	40.49	Peak Max	H	160	10	74	-33.51	Pass
7234.8425	36.74	15.32	-7.31	44.76	Peak Max	V	116	187	74	-29.24	Pass
9648.7175	36.21	16.56	-2.46	50.31	Peak Max	V	190	134	74	-23.69	Pass
4822.505	25.22	14.17	-12.39	27.01	Average Max	H	160	10	54	-26.99	Pass
7234.8425	23.7	15.32	-7.31	31.72	Average Max	V	116	187	54	-22.28	Pass
9648.7175	23.52	16.56	-2.46	37.62	Average Max	V	190	134	54	-16.38	Pass

Above 1GHz-25GHz – 802.11g – 2437MHz

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
4874.3675	39.06	14.2	-12.38	40.88	Peak Max	H	169	303	74	-33.12	Pass
7309.0475	35.24	15.35	-6.96	43.64	Peak Max	V	274	228	74	-30.36	Pass
9749.6925	35.36	16.54	-2.06	49.84	Peak Max	H	254	41	74	-24.16	Pass
4874.3675	25.06	14.2	-12.38	26.89	Average Max	H	169	303	54	-27.12	Pass
7309.0475	23.24	15.35	-6.96	31.64	Average Max	V	274	228	54	-22.37	Pass
9749.6925	23.46	16.54	-2.06	37.94	Average Max	H	254	41	54	-16.06	Pass

Above 1GHz-25GHz- 802.11g - 2462MHz

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
4922.5125	39.11	14.23	-12.36	40.98	Peak Max	H	285	188	74	-33.02	Pass
7385.335	36.04	15.38	-6.76	44.66	Peak Max	V	203	67	74	-29.34	Pass
9846.4475	35.21	16.53	-1.68	50.06	Peak Max	H	145	88	74	-23.94	Pass
4922.5125	25.37	14.23	-12.36	27.23	Average Max	H	285	188	54	-26.77	Pass
7385.335	24.01	15.38	-6.76	32.62	Average Max	V	203	67	54	-21.38	Pass
9846.4475	23.09	16.53	-1.68	37.94	Average Max	V	230	229	54	-16.06	Pass

Above 1GHz-25GHz- 802.11n20 - 2412MHz

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
9591.19	38.83	6.57	1.48	46.88	Peak Max	V	378	249	74	-27.12	Pass
4822.7375	38.17	14.17	-12.39	39.95	Peak Max	H	237	307	74	-34.05	Pass
7234.5475	36.09	15.32	-7.31	44.1	Peak Max	V	188	324	74	-29.9	Pass
9591.19	26.51	6.57	1.48	34.57	Average Max	V	378	249	54	-19.43	Pass
4822.7375	25.4	14.17	-12.39	27.18	Average Max	H	237	307	54	-26.82	Pass
7234.5475	23.73	15.32	-7.31	31.74	Average Max	V	188	324	54	-22.26	Pass

Above 1GHz-25GHz – 802.11n20 – 2437MHz

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
9587.58	37.89	6.57	1.51	45.97	Peak Max	H	362	198	74	-28.03	Pass
4872.1275	38.58	14.2	-12.37	40.41	Peak Max	H	298	248	74	-33.59	Pass
7310.2175	36.43	15.35	-6.95	44.82	Peak Max	V	107	163	74	-29.18	Pass
9587.58	26.39	6.57	1.51	34.47	Average Max	H	362	198	54	-19.53	Pass
4872.1275	25.18	14.2	-12.37	27.01	Average Max	H	298	248	54	-26.99	Pass
7310.2175	23.38	15.35	-6.95	31.78	Average Max	V	107	163	54	-22.22	Pass

Above 1GHz-25GHz- 802.11n20 - 2462MHz

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
9693.06	38.35	6.55	1.1	46.01	Peak Max	H	299	298	74	-27.99	Pass
4924.8975	39.25	14.23	-12.35	41.13	Peak Max	H	234	94	74	-32.87	Pass
7386.4225	36.02	15.38	-6.76	44.64	Peak Max	V	248	130	74	-29.36	Pass
9693.06	26.37	6.55	1.1	34.03	Average Max	H	299	298	54	-19.97	Pass
4924.8975	25.36	14.23	-12.35	27.23	Average Max	H	234	94	54	-26.77	Pass
7386.4225	24.08	15.38	-6.76	32.7	Average Max	V	248	130	54	-21.3	Pass

Above 1GHz-25GHz- 802.11n40 - 2422MHz

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
9608.46	38.97	6.57	1.4	46.94	Peak Max	V	225	181	74	-27.06	Pass
4845.33	38.75	14.18	-12.35	40.58	Peak Max	H	190	127	74	-33.42	Pass
7265.0225	36.03	15.33	-7.14	44.22	Peak Max	V	128	145	74	-29.78	Pass
9608.46	26.98	6.57	1.4	34.95	Average Max	V	225	181	54	-19.05	Pass
4845.33	25.63	14.18	-12.35	27.46	Average Max	H	190	127	54	-26.54	Pass
7265.0225	23.58	15.33	-7.14	31.77	Average Max	V	128	145	54	-22.23	Pass

Above 1GHz-25GHz – 802.11n40 – 2437MHz

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
9454.23	38.64	6.54	1.75	46.94	Peak Max	V	113	74	74	-27.06	Pass
4874.1225	38.47	14.2	-12.38	40.29	Peak Max	H	140	47	74	-33.71	Pass
7309.5125	36.06	15.35	-6.95	44.46	Peak Max	V	249	218	74	-29.54	Pass
9454.23	26.3	6.54	1.75	34.59	Average Max	V	113	74	54	-19.41	Pass
4874.1225	25.51	14.2	-12.38	27.33	Average Max	H	140	47	54	-26.67	Pass
7309.5125	23.5	15.35	-6.95	31.89	Average Max	V	249	218	54	-22.11	Pass

Above 1GHz-25GHz- 802.11n40 - 2452MHz

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
9505.45	39.04	6.59	2.03	47.65	Peak Max	H	273	39	74	-26.35	Pass
4905.2125	38.82	14.22	-12.4	40.63	Peak Max	H	120	82	74	-33.37	Pass
7355.925	35.7	15.37	-6.84	44.23	Peak Max	V	165	109	74	-29.77	Pass
9505.45	26.26	6.59	2.03	34.88	Average Max	H	273	39	54	-19.13	Pass
4905.2125	25.16	14.22	-12.4	26.98	Average Max	H	120	82	54	-27.03	Pass
7355.925	23.89	15.37	-6.84	32.41	Average Max	V	165	109	54	-21.59	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case T310N, T310N is the worst case of T310N and T310S.

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Conducted Emissions						
R & S Receiver	ESIB 40	100179	06/08/2017	1 Year	06/08/2018	☒
CHASE LISN	MN2050B	1018	08/07/2017	1 Year	08/07/2018	☒
Radiated Emissions						
R & S Receiver	ESIB 40	1018	08/07/2017	1 Year	08/07/2018	☒
Bi-Log antenna (30MHz~2GHz)	JB1	A030702	08/12/2017	1 Year	08/12/2018	☒
Horn Antenna (1GHz~26GHz)	3115	100059	08/25/2017	1 Year	08/25/2018	☒
RF Conducted Measurement						
Spectrum Analyzer	N9010A	10SL0219	08/20/2017	1 Year	08/20/2018	☒
R & S Receiver	ESIB 40	100179	06/08/2017	1 Year	06/08/2018	☒
ETS-Lingren USB RF Power Sensor	7002-006	10SL0190	09/03/2017	1 Year	09/03/2018	☒

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		Radio & Telecommunications Terminal Equipment: EN45001 – EN ISO/IEC 17025
		Electromagnetic Compatibility: EN45001 – EN ISO/IEC 17025
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		Radio: Scope A – All Radio Standard Specification in Category I
		Telecom: CS-03 Part I, II, V, VI, VII, VIII

Japan Recognized Certification Body Designation		Radio: A1. Terminal equipment for purpose of calling Telecom: B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law
Korea CAB Accreditation		EMI: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI EMS: 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 Radio: 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 Telecom: 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
Taiwan NCC CAB Recognition		LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition		CNS 13438
Japan VCCI		R-3083: Radiation 3 meter site C-3421: Main Ports Conducted Interference Measurement T-1597: Telecommunication Ports Conducted Interference Measurement
Australia CAB Recognition		EMC: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4 Radio communications: 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 Telecommunications: 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
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